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MEASUREMENT REPORT FCC Part 22, 24, & 27

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


Date of Testing:
8/09/2017-8/30/2017
Test Site/Location:
PCTEST Lab., Columbia, MD, USA
Test Report Serial No.:
1M1708030234-02.ZNF

FCC ID:	ZNFG011C
APPLICANT:	LG ELECTRONICS MOBILECOMM U.S.A



Application Type: Class II Permissive Change
Model: G011C
EUT Type: Portable Handset
FCC Classification: PCS Licensed Transmitter Held to Ear (PCE)
FCC Rule Part(s): §2 §22(H) §24(E) §27(L)
Test Procedure(s): ANSI/TIA-603-D-2010, KDB 971168 D01 v02r02
Test Device Serial No.: *identical prototype* [S/N: 15073, 15081, 15099]
Class II Permissive Change: Please see FCC change document

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 §2.947. Test results reported herein relate only to the item(s) tested.

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.




 Randy Ortanez
 President

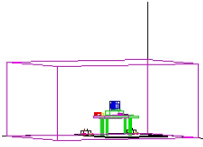


FCC ID: ZNFG011C		FCC Pt. 22, 24, & 27 CDMA / GSM / GPRS / EGPRS / WCDMA MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Quality Manager
Test Report S/N: 1M1708030234-02.ZNF	Test Dates: 8/09/2017-8/30/2017	EUT Type: Portable Handset	Page 1 of 32	

T A B L E O F C O N T E N T S

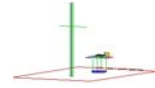
FCC PART 22, 24, & 27 MEASUREMENT REPORT	3
1.0 INTRODUCTION	5
1.1 Scope	5
1.2 Testing Facility	5
2.0 PRODUCT INFORMATION	6
2.1 Equipment Description	6
2.2 Device Capabilities	6
2.3 Test Configuration	6
2.4 EMI Suppression Device(s)/Modifications	6
3.0 DESCRIPTION OF TESTS	7
3.1 Evaluation Procedure	7
3.2 Cellular - Base Frequency Blocks	7
3.3 Cellular - Mobile Frequency Blocks	7
3.4 PCS - Base Frequency Blocks	7
3.5 PCS - Mobile Frequency Blocks	8
3.6 AWS - Base Frequency Blocks	8
3.7 AWS - Mobile Frequency Blocks	8
3.8 Radiated Measurements	9
4.0 MEASUREMENT UNCERTAINTY	10
5.0 TEST EQUIPMENT CALIBRATION DATA	11
6.0 SAMPLE CALCULATIONS	12
7.0 TEST RESULTS	13
7.1 Summary	13
7.2 Radiated Power (ERP/EIRP)	14
7.3 Radiated Spurious Emissions Measurements	19
8.0 CONCLUSION	32

FCC ID: ZNFG011C		FCC Pt. 22, 24, & 27 CDMA / GSM / GPRS / EGPRS / WCDMA MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Quality Manager
Test Report S/N: 1M1708030234-02.ZNF	Test Dates: 8/09/2017-8/30/2017	EUT Type: Portable Handset	Page 2 of 32	



MEASUREMENT REPORT

FCC Part 22, 24, & 27

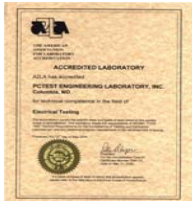


§2.1033 General Information



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): §2 §22(H) §24(E) §27(L)
BASE MODEL: G011C
FCC ID: ZNFG011C
FCC CLASSIFICATION: PCS Licensed Transmitter Held to Ear (PCE)
MODE: CDMA / GSM / GPRS / EGPRS / WCDMA
FREQUENCY TOLERANCE: ±0.00025 % (2.5 ppm)
Test Device Serial No.: 15073, 15081, 15099 Production Pre-Production Engineering
DATE(S) OF TEST: 8/09/2017-8/30/2017
TEST REPORT S/N: 1M1708030234-02.ZNF

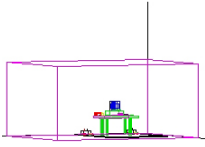
Test Facility / Accreditations

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, , GPRS, EGPRS, UMTS (W-CDMA), CDMA 1xEVDO, and CDMA 1xRTT.

FCC ID: ZNFG011C		FCC Pt. 22, 24, & 27 CDMA / GSM / GPRS / EGPRS / WCDMA MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Quality Manager
Test Report S/N: 1M1708030234-02.ZNF	Test Dates: 8/09/2017-8/30/2017	EUT Type: Portable Handset	Page 3 of 32	





MEASUREMENT REPORT

FCC Part 22, 24, & 27



Mode	FCC Rule Part	Tx Frequency (MHz)	ERP/EIRP	
			Max. Power (W)	Max. Power (dBm)
GSM850	22H	824.2 - 848.8	0.507	27.05
EDGE850	22H	824.2 - 848.8	0.220	23.43
WCDMA850	22H	826.4 - 846.6	0.056	17.49
CDMA850	22H	824.70 - 848.31	0.063	18.00
WCDMA1700	27	1712.4 - 1752.6	0.166	22.20
GSM1900	24E	1850.2 - 1909.8	1.103	30.42
EDGE1900	24E	1850.2 - 1909.8	0.455	26.58
WCDMA1900	24E	1852.4 - 1907.6	0.249	23.96
CDMA1900	24E	1851.25 - 1908.75	0.200	23.02

EUT Overview

FCC ID: ZNFG011C		FCC Pt. 22, 24, & 27 CDMA / GSM / GPRS / EGPRS / WCDMA MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Quality Manager
Test Report S/N: 1M1708030234-02.ZNF	Test Dates: 8/09/2017-8/30/2017	EUT Type: Portable Handset	Page 4 of 32	

1.0 INTRODUCTION

1.1 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 and the Industry Canada Certification and Engineering Bureau.

1.2 Testing Facility

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 C63.4-2014 on January 22, 2015.

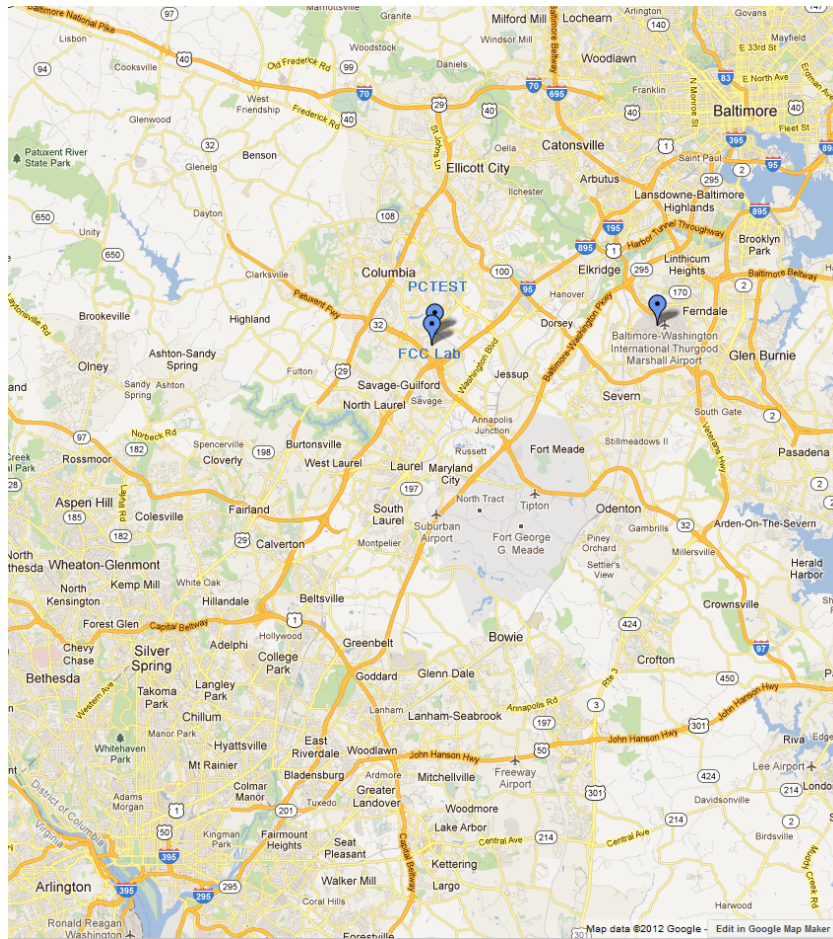




Figure 1-1. Map of the Greater Baltimore and Metropolitan Washington, D.C. area

FCC ID: ZNFG011C		FCC Pt. 22, 24, & 27 CDMA / GSM / GPRS / EGPRS / WCDMA MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Quality Manager
Test Report S/N: 1M1708030234-02.ZNF	Test Dates: 8/09/2017-8/30/2017	EUT Type: Portable Handset	Page 5 of 32	

2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **LG Portable Handset FCC ID: ZNFG011C**. The test data contained in this report pertains only to the emissions due to the EUT's 2G/3G licensed transmitters.

2.2 Device Capabilities

This device contains the following capabilities:

850/1900 CDMA/EvDO Rev0/A, 1x Advanced (BC0, BC1, BC10), 850/1900 GSM/GPRS/EDGE, 850/1700/1900 WCDMA/HSPA, Multi-band LTE, 802.11b/g/n/ac WLAN, 802.11a/n/ac UNII, Bluetooth (1x, EDR, LE), NFC



This device uses a tuner circuit that dynamically updates the antenna impedance parameters to optimize antenna performance for certain bands and modes of operation. The tuner for this device was set to simulate a "free space" condition where the transmit antenna is matched to the medium into which it is transmitting and, thus, the power is at its maximum level.

2.3 Test Configuration

The EUT was tested per the guidance of ANSI/TIA-603-D-2010 and KDB 971168 D01 v02r02. See Section 7.0 of this test report for a description of the radiated tests.

2.4 EMI Suppression Device(s)/Modifications

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

FCC ID: ZNFG011C		FCC Pt. 22, 24, & 27 CDMA / GSM / GPRS / EGPRS / WCDMA MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Quality Manager
Test Report S/N: 1M1708030234-02.ZNF	Test Dates: 8/09/2017-8/30/2017	EUT Type: Portable Handset	Page 6 of 32	

3.0 DESCRIPTION OF TESTS

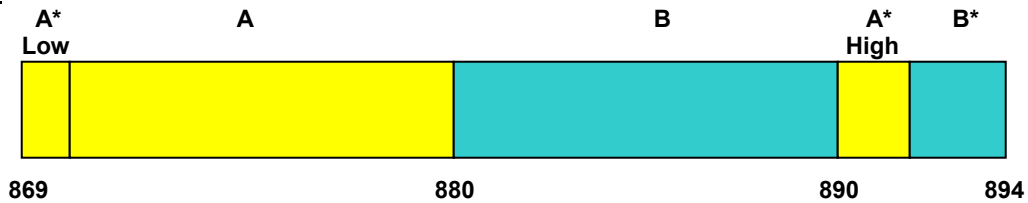
3.1 Evaluation Procedure

The measurement procedures described in the “Land Mobile FM or PM – Communications Equipment – Measurements and Performance Standards” (ANSI/TIA-603-D-2010) and “Measurement Guidance for Certification of Licensed Digital Transmitters” (KDB 971168 D01 v02r02) were used in the measurement of the EUT.

Deviation from Measurement Procedure.....None

3.2 Cellular - Base Frequency Blocks

§22.905



BLOCK 1: 869 – 880 MHz (A* Low + A)

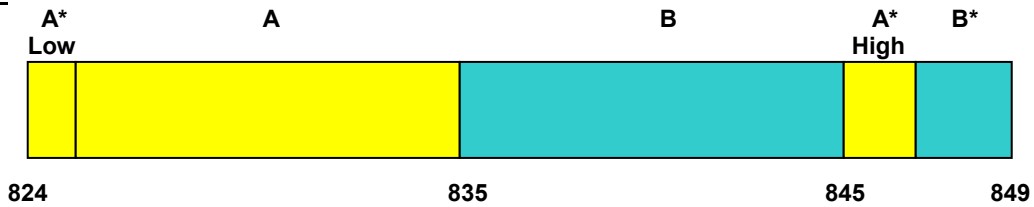
BLOCK 3: 890 – 891.5 MHz (A* High)

BLOCK 2: 880 – 890 MHz (B)

BLOCK 4: 891.5 – 894 MHz (B*)

3.3 Cellular - Mobile Frequency Blocks

§22.905



BLOCK 1: 824 – 835 MHz (A* Low + A)

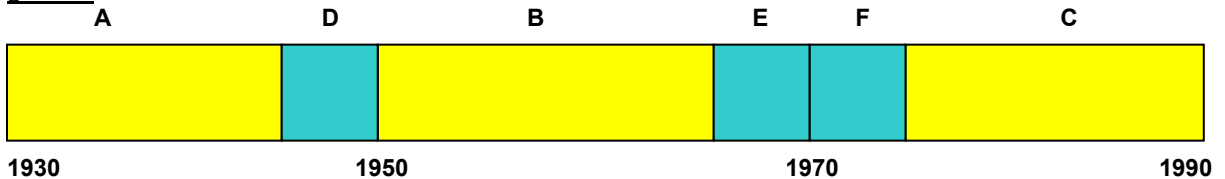
BLOCK 3: 845 – 846.5 MHz (A* High)

BLOCK 2: 835 – 845 MHz (B)

BLOCK 4: 846.5 – 849 MHz (B*)

3.4 PCS - Base Frequency Blocks

§24.229



BLOCK 1: 1930 – 1945 MHz (A)



BLOCK 4: 1965 – 1970 MHz (E)

BLOCK 2: 1945 – 1950 MHz (D)

BLOCK 5: 1970 – 1975 MHz (F)

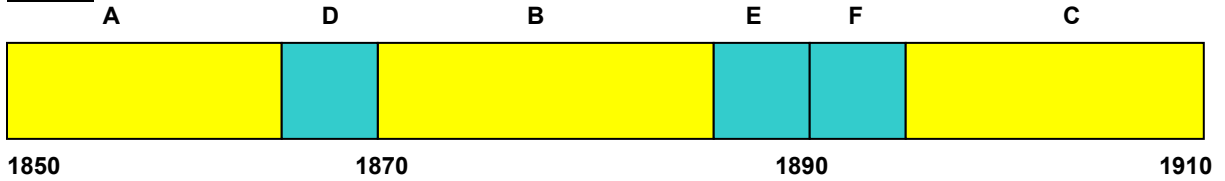
BLOCK 3: 1950 – 1965 MHz (B)

BLOCK 6: 1975 – 1990 MHz (C)

FCC ID: ZNFG011C		FCC Pt. 22, 24, & 27 CDMA / GSM / GPRS / EGPRS / WCDMA MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Quality Manager
Test Report S/N: 1M1708030234-02.ZNF	Test Dates: 8/09/2017-8/30/2017	EUT Type: Portable Handset	Page 7 of 32	

3.5 PCS - Mobile Frequency Blocks

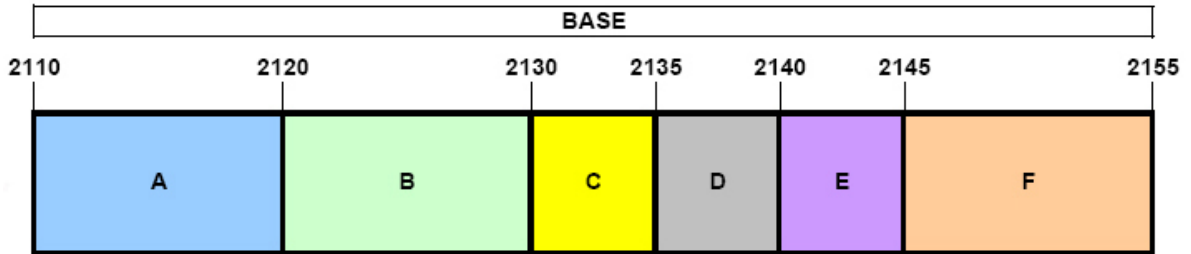
§24.229



- | | |
|------------------------------|------------------------------|
| BLOCK 1: 1850 – 1865 MHz (A) | BLOCK 4: 1885 – 1890 MHz (E) |
| BLOCK 2: 1865 – 1870 MHz (D) | BLOCK 5: 1890 – 1895 MHz (F) |
| BLOCK 3: 1870 – 1885 MHz (B) | BLOCK 6: 1895 – 1910 MHz (C) |

3.6 AWS - Base Frequency Blocks

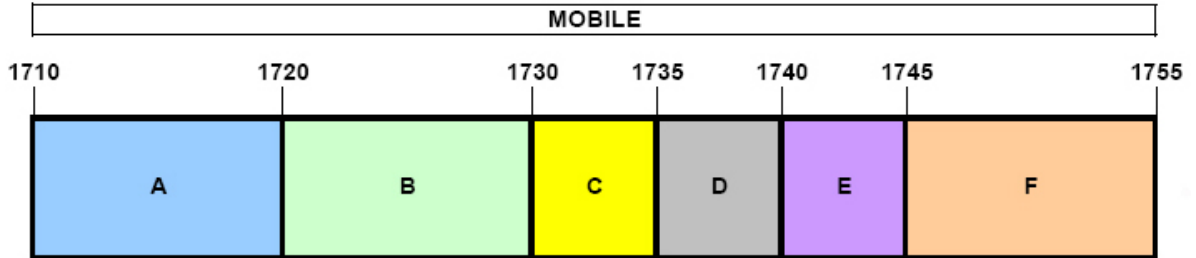
§27.5(h)





- | | |
|------------------------------|------------------------------|
| BLOCK 1: 2110 – 2120 MHz (A) | BLOCK 4: 2135 – 2140 MHz (D) |
| BLOCK 2: 2120 – 2130 MHz (B) | BLOCK 5: 2140 – 2145 MHz (E) |
| BLOCK 3: 2130 – 2135 MHz (C) | BLOCK 6: 2145 – 2155 MHz (F) |

3.7 AWS - Mobile Frequency Blocks

§27.5(h)



- | | |
|------------------------------|------------------------------|
| BLOCK 1: 1710 – 1720 MHz (A) | BLOCK 4: 1735 – 1740 MHz (D) |
| BLOCK 2: 1720 – 1730 MHz (B) | BLOCK 5: 1740 – 1745 MHz (E) |
| BLOCK 3: 1730 – 1735 MHz (C) | BLOCK 6: 1745 – 1755 MHz (F) |

FCC ID: ZNFG011C		FCC Pt. 22, 24, & 27 CDMA / GSM / GPRS / EGPRS / WCDMA MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Quality Manager
Test Report S/N: 1M1708030234-02.ZNF	Test Dates: 8/09/2017-8/30/2017	EUT Type: Portable Handset		Page 8 of 32

3.8 Radiated Measurements

§2.1053 §22.913(a.2) §22.917(a) §24.232(c) §24.238(a) §27.50(d)(10) §27.53(h)

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 Figure 5.7 of Clause 5 in ANSI C63.4-2014. 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 above 1GHz. For measurements below 1GHz, the absorbers are removed. A raised turntable is used for radiated measurement. The turn table 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 72.4cm high PVC support structure is placed on top of the turntable. A 3" (~7.6cm) sheet of high density polystyrene 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.



The equipment under test was transmitting while connected to its integral antenna and is placed on a turntable 3 meters from the receive antenna. The receive antenna height is adjusted between 1 and 4 meter height, the turntable is rotated through 360 degrees, and the EUT is manipulated through all orthogonal planes representative of its typical use to achieve the highest reading on the receive spectrum analyzer.

Per the guidance of ANSI/TIA-603-D-2010, a half-wave dipole is then substituted in place of the EUT. For emissions above 1GHz, a horn antenna is substituted in place of the EUT. The substitute antenna is driven by a signal generator with the level of the signal generator being adjusted to obtain the same receive spectrum analyzer level previously recorded from the spurious emission from the EUT. The power of the emission is calculated using the following formula:

$$P_d \text{ [dBm]} = P_g \text{ [dBm]} - \text{cable loss [dB]} + \text{antenna gain [dBd/dBi]}$$

Where, P_d is the dipole equivalent power, P_g is the generator output into the substitution antenna, and the antenna gain is the gain of the substitute antenna used relative to either a half-wave dipole (dBd) or an isotropic source (dBi). The substitute level is equal to $P_g \text{ [dBm]} - \text{cable loss [dB]}$.



Radiated power and radiated spurious emission levels are investigated with the receive antenna horizontally and vertically polarized per ANSI/ITA-603-D-2010.

FCC ID: ZNFG011C		FCC Pt. 22, 24, & 27 CDMA / GSM / GPRS / EGPRS / WCDMA MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Quality Manager
Test Report S/N: 1M1708030234-02.ZNF	Test Dates: 8/09/2017-8/30/2017	EUT Type: Portable Handset	Page 9 of 32	

4.0 MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.4-2014. All measurement uncertainty values are shown with a coverage factor of $k = 2$ to indicate a 95% level of confidence. The measurement uncertainty shown below meets or exceeds the U_{CISPR} measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

Contribution	Expanded Uncertainty (\pm dB)
Radiated Disturbance (<1GHz)	4.98
Radiated Disturbance (>1GHz)	5.07
Radiated Disturbance (>18GHz)	5.09

FCC ID: ZNFG011C		FCC Pt. 22, 24, & 27 CDMA / GSM / GPRS / EGPRS / WCDMA MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Quality Manager
Test Report S/N: 1M1708030234-02.ZNF	Test Dates: 8/09/2017-8/30/2017	EUT Type: Portable Handset	Page 10 of 32	

5.0 TEST EQUIPMENT CALIBRATION DATA



Test Equipment Calibration is traceable to the National Institute of Standards and Technology (NIST). Measurements antennas used during testing were calibrated in accordance to the requirements of ANSI C63.5-2006.

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	N9020A	MXA Signal Analyzer	10/28/2016	Annual	10/28/2017	US46470561
Com-Power	PAM-103	Pre-Amplifier (1-1000MHz)	6/21/2017	Annual	6/21/2018	441112
Emco	6502	Active Loop Antenna (10k - 30 MHz)	8/9/2016	Biennial	8/9/2018	2936
EMCO	3160-09	Small Horn (18 - 26.5GHz)	8/23/2016	Biennial	8/23/2018	135427
Emco	3115	Horn Antenna (1-18GHz)	3/10/2016	Biennial	3/10/2018	9704-5182
ETS Lindgren	3164-08	Quad Ridge Horn Antenna	4/26/2016	Biennial	4/26/2018	128337
Mini Circuits	TVA-11-422	RF Power Amp	N/A			QA1317001
Mini Circuits	PWR-SEN-4GHS	USB Power Sensor	3/24/2017	Annual	3/24/2018	11401010036
Mini-Circuits	SSG-4000HP	Synthesized Signal Generator	N/A			11403100002
PCTEST	-	EMC Switch System	6/21/2017	Annual	6/21/2018	NM2
Rohde & Schwarz	CMU200	Base Station Simulator	N/A			107826
Rohde & Schwarz	TS-PR18	1-18 GHz Pre-Amplifier	3/7/2017	Annual	3/7/2018	100071
Rohde & Schwarz	TS-PR26	18-26.5 GHz Pre-Amplifier	5/11/2017	Annual	5/11/2018	100040
Schwarzbeck	UHA 9105	Dipole Antenna (400 - 1GHz) Rx	3/30/2016	Biennial	3/30/2018	9105-2404
Sunol	JB5	Bi-Log Antenna (30M - 5GHz)	3/14/2016	Biennial	3/14/2018	A051107

Table 5-1. Test Equipment

Notes:

- Equipment with a calibration date of "N/A" shown in this list was not used to make direct calibrated measurements.



FCC ID: ZNFG011C		FCC Pt. 22, 24, & 27 CDMA / GSM / GPRS / EGPRS / WCDMA MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Quality Manager
Test Report S/N: 1M1708030234-02.ZNF	Test Dates: 8/09/2017-8/30/2017	EUT Type: Portable Handset	Page 11 of 32	

6.0 SAMPLE CALCULATIONS

Spurious Radiated Emission

Example: Spurious emission at 3700.40 MHz

The receive spectrum analyzer reading at 3 meters with the EUT on the turntable was -81.0 dBm. The gain of the substituted antenna is 8.1 dBi. The signal generator connected to the substituted antenna terminals is adjusted to produce a reading of -81.0 dBm on the spectrum analyzer. The loss of the cable between the signal generator and the terminals of the substituted antenna is 2.0 dB at 3700.40 MHz. So 6.1 dB is added to the signal generator reading of -30.9 dBm yielding -24.80 dBm. The fundamental EIRP was 25.50 dBm so this harmonic was 25.50 dBm $- (-24.80) = 50.3$ dBc.

FCC ID: ZNFG011C		FCC Pt. 22, 24, & 27 CDMA / GSM / GPRS / EGPRS / WCDMA MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Quality Manager
Test Report S/N: 1M1708030234-02.ZNF	Test Dates: 8/09/2017-8/30/2017	EUT Type: Portable Handset	Page 12 of 32	

7.0 TEST RESULTS

7.1 Summary



Company Name: LG Electronics MobileComm U.S.A
 FCC ID: ZNFG011C
 FCC Classification: PCS Licensed Transmitter Held to Ear (PCE)
 Mode(s): CDMA / GSM / GPRS / EGPRS / WCDMA

FCC Part Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
22.913(a.2)	Effective Radiated Power	< 7 Watts max. ERP	RADIATED	PASS	Section 7.2
24.232(c)	Equivalent Isotropic Radiated Power	< 2 Watts max. EIRP		PASS	Section 7.2
27.50(d.4)	Equivalent Isotropic Radiated Power	< 1 Watts max. EIRP		PASS	Section 7.2
2.1053 22.917(a) 24.238(a) 27.53(h)	Radiated Spurious Emissions	> 43 + log ₁₀ (P[Watts]) for all out-of-band emissions		PASS	Section 7.3

Table 7-1. Summary of Test Results

Notes:

- 1) All modes of operation and data rates were investigated. The test results shown in the following sections represent the worst case emissions.

FCC ID: ZNFG011C		FCC Pt. 22, 24, & 27 CDMA / GSM / GPRS / EGPRS / WCDMA MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Quality Manager
Test Report S/N: 1M1708030234-02.ZNF	Test Dates: 8/09/2017-8/30/2017	EUT Type: Portable Handset	Page 13 of 32	

7.2 Radiated Power (ERP/EIRP)

§22.913(a)(2) 24.232(c) 27.50(d.4)

Test Overview

Effective Radiated Power (ERP) and Equivalent Isotropic Radiated Power (EIRP) measurements are performed using the substitution method described in ANSI/TIA-603-D-2010 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using vertically and horizontally polarized tuned dipole antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as RMS average measurements while the EUT is operating at maximum power, and at the appropriate frequencies.



Test Procedures Used

KDB 971168 D01 v02r02 – Section 5.2.1

ANSI/TIA-603-D-2010 – Section 2.2.17

Test Settings

1. Radiated power measurements are performed using the signal analyzer’s “channel power” measurement capability for signals with continuous operation. For signals with burst transmission, the signal analyzer’s “time domain power” measurement capability is used
2. RBW = 1 – 5% of the expected OBW, not to exceed 1MHz
3. VBW \geq 3 x RBW
4. Span = 1.5 times the OBW
5. No. of sweep points \geq 2 x span / RBW
6. Detector = RMS
7. Trigger is set to “free run” for signals with continuous operation with the sweep times set to “auto”.
Trigger is set to enable triggering only on full power bursts with the sweep time set less than or equal to the transmission burst duration
8. The integration bandwidth was roughly set equal to the measured OBW of the signal for signals with continuous operation. For signals with burst transmission, the “gating” function was enabled to ensure that measurements are performed during times in which the transmitter is operating at its maximum power
9. Trace mode = trace averaging (RMS) over 100 sweeps
10. The trace was allowed to stabilize

FCC ID: ZNFG011C		FCC Pt. 22, 24, & 27 CDMA / GSM / GPRS / EGPRS / WCDMA MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Quality Manager
Test Report S/N: 1M1708030234-02.ZNF	Test Dates: 8/09/2017-8/30/2017	EUT Type: Portable Handset	Page 14 of 32	

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

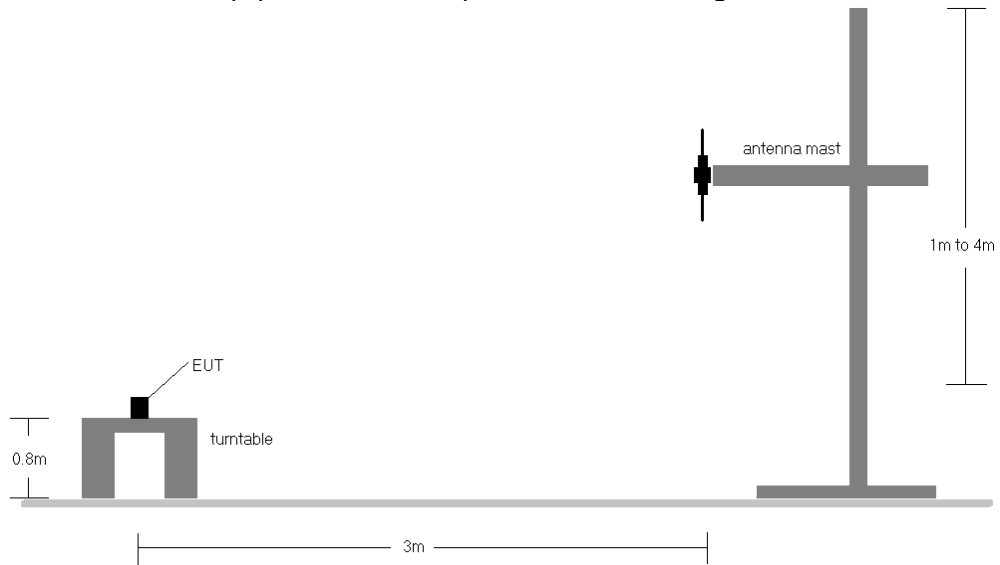


Figure 7-1. Radiated Test Setup <1GHz

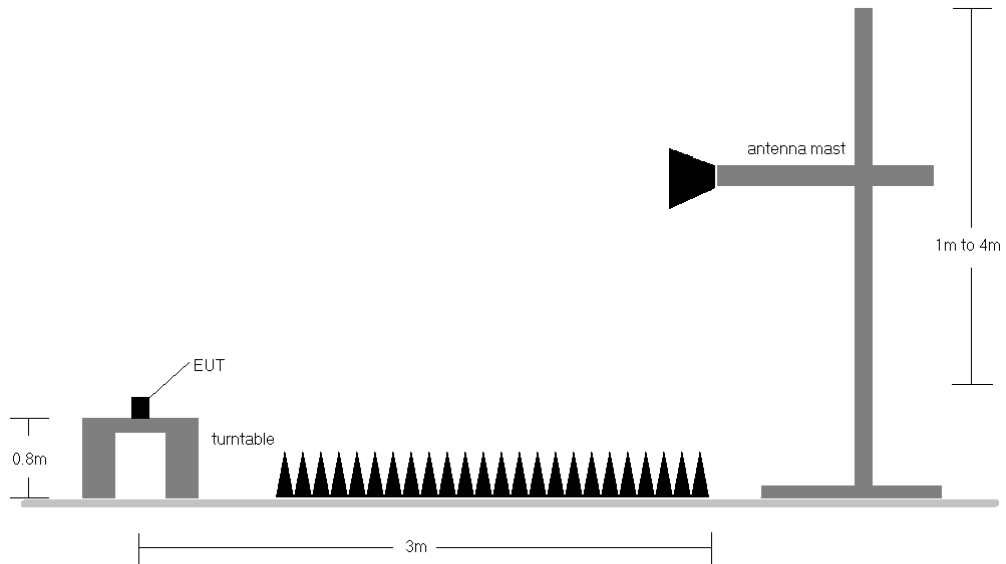




Figure 7-2. Radiated Test Setup >1GHz

FCC ID: ZNFG011C		FCC Pt. 22, 24, & 27 CDMA / GSM / GPRS / EGPRS / WCDMA MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Quality Manager
Test Report S/N: 1M1708030234-02.ZNF	Test Dates: 8/09/2017-8/30/2017	EUT Type: Portable Handset		Page 15 of 32

Test Notes



- 1) This device employs GSM, GPRS, and EDGE capabilities. The EUT was tested under all configurations and the highest power is reported in GSM mode using a Power Control Level of "0" in the PCS Band and "5" in the Cellular Band.
- 2) This device employs UMTS technology with WCDMA (AMR/RMC) and HSDPA capabilities. The EUT was tested under all configurations and the highest power is reported in WCDMA mode with HSDPA Inactive at 12.2 kbps RMC and TPC bits all set to "1."
- 3) This device was tested under all RC and SO combinations and the worst case is reported with RC3/SO55 with "All Up" power control bits.
- 4) This unit was tested with its standard battery.
- 5) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case setup is reported in the tables below.

Frequency [MHz]	Mode	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Substitute Level [dBm]	Ant. Gain [dBd]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
824.20	GSM850	H	150	3	27.70	-0.65	27.05	0.507	38.45	-11.40
836.60	GSM850	H	150	13	26.79	-0.65	26.14	0.411	38.45	-12.31
848.80	GSM850	H	150	344	27.25	-0.65	26.60	0.457	38.45	-11.85
824.20	GSM850	V	150	358	27.00	-0.65	26.35	0.432	38.45	-12.10
824.20	EDGE850	H	150	3	24.08	-0.65	23.43	0.220	38.45	-15.02

Table 7-2. ERP (Cellular GSM)

Frequency [MHz]	Mode	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Substitute Level [dBm]	Ant. Gain [dBd]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
824.70	CDMA850	H	150	10	17.83	-0.65	17.18	0.052	38.45	-21.27
836.52	CDMA850	H	150	341	18.65	-0.65	18.00	0.063	38.45	-20.45
848.31	CDMA850	H	150	188	17.07	-0.65	16.42	0.044	38.45	-22.03
836.52	CDMA850	V	150	340	17.50	-0.65	16.85	0.048	38.45	-21.60

Table 7-3. ERP (Cellular CDMA)

FCC ID: ZNFG011C		FCC Pt. 22, 24, & 27 CDMA / GSM / GPRS / EGPRS / WCDMA MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Quality Manager
Test Report S/N: 1M1708030234-02.ZNF	Test Dates: 8/09/2017-8/30/2017	EUT Type: Portable Handset	Page 16 of 32	

Frequency [MHz]	Mode	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Substitute Level [dBm]	Ant. Gain [dBd]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
826.40	WCDMA850	H	150	5	17.75	-0.65	17.10	0.051	38.45	-21.35
836.60	WCDMA850	H	150	1	18.14	-0.65	17.49	0.056	38.45	-20.96
846.60	WCDMA850	H	150	0	17.84	-0.65	17.19	0.052	38.45	-21.26
836.60	WCDMA850	V	150	123	17.58	-0.65	16.93	0.049	38.45	-21.52



Table 7-4. ERP (Cellular WCDMA)

Frequency [MHz]	Mode	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Substitute Level [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1712.40	WCDMA1700	H	150	350	15.89	5.55	21.44	0.139	30.00	-8.56
1732.60	WCDMA1700	H	150	345	16.79	5.41	22.20	0.166	30.00	-7.80
1752.60	WCDMA1700	H	150	346	16.05	5.27	21.32	0.136	30.00	-8.68
1732.60	WCDMA1700	V	150	259	14.22	5.41	19.63	0.092	30.00	-10.37

Table 7-5. EIRP (AWS WCDMA)

Frequency [MHz]	Mode	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Substitute Level [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1850.20	GSM1900	H	150	350	25.50	4.82	30.32	1.076	33.01	-2.69
1880.00	GSM1900	H	150	333	25.68	4.74	30.42	1.103	33.01	-2.59
1909.80	GSM1900	H	150	353	24.00	4.68	28.69	0.739	33.01	-4.33
1880.00	GSM1900	V	150	174	22.26	4.84	27.10	0.513	33.01	-5.91
1880.00	EDGE1900	H	150	0	21.84	4.74	26.58	0.455	33.01	-6.43

Table 7-6. EIRP (PCS GSM)

FCC ID: ZNFG011C		FCC Pt. 22, 24, & 27 CDMA / GSM / GPRS / EGPRS / WCDMA MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Quality Manager
Test Report S/N: 1M1708030234-02.ZNF	Test Dates: 8/09/2017-8/30/2017	EUT Type: Portable Handset	Page 17 of 32	

Frequency [MHz]	Mode	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Substitute Level [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1851.25	CDMA1900	H	150	348	18.20	4.82	23.02	0.200	33.01	-9.99
1880.00	CDMA1900	H	150	343	18.10	4.74	22.84	0.192	33.01	-10.17
1908.75	CDMA1900	H	150	336	18.22	4.68	22.90	0.195	33.01	-10.11
1851.25	CDMA1900	V	150	312	16.75	4.79	21.54	0.143	33.01	-11.47



Table 7-7. EIRP (PCS CDMA)

Frequency [MHz]	Mode	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Substitute Level [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1852.40	WCDMA1900	H	150	342	19.15	4.81	23.96	0.249	33.01	-9.05
1880.00	WCDMA1900	H	150	350	18.54	4.74	23.28	0.213	33.01	-9.73
1907.60	WCDMA1900	H	150	348	18.33	4.68	23.01	0.200	33.01	-10.00
1852.40	WCDMA1900	V	150	260	17.00	4.79	21.79	0.151	33.01	-11.22

Table 7-8. EIRP (PCS WCDMA)

Note:

The Class II Permissive Change test results reported herein are within the expected measurement tolerances of the original certification test results. It has been determined that the radiated powers did not change.

FCC ID: ZNFG011C		FCC Pt. 22, 24, & 27 CDMA / GSM / GPRS / EGPRS / WCDMA MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Quality Manager
Test Report S/N: 1M1708030234-02.ZNF	Test Dates: 8/09/2017-8/30/2017	EUT Type: Portable Handset	Page 18 of 32	

7.3 Radiated Spurious Emissions Measurements

§2.1053 §22.917(a) 24.238(a) 27.53(h)

Test Overview

Radiated spurious emissions measurements are performed using the substitution method described in ANSI/TIA-603-D-2010 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using horizontally and vertically polarized tuned dipole antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as peak measurements while the EUT is operating at maximum power, and at the appropriate frequencies.



Test Procedures Used

KDB 971168 D01 v02r02 – Section 5.8

ANSI/TIA-603-D-2010 – Section 2.2.12

Test Settings

1. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
2. VBW \geq 3 x RBW
3. Span = 1.5 times the OBW
4. No. of sweep points \geq 2 x span / RBW
5. Detector = RMS
6. Trace mode = Average (Max Hold for pulsed emissions)
7. The trace was allowed to stabilize

FCC ID: ZNFG011C		FCC Pt. 22, 24, & 27 CDMA / GSM / GPRS / EGPRS / WCDMA MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Quality Manager
Test Report S/N: 1M1708030234-02.ZNF	Test Dates: 8/09/2017-8/30/2017	EUT Type: Portable Handset	Page 19 of 32	

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

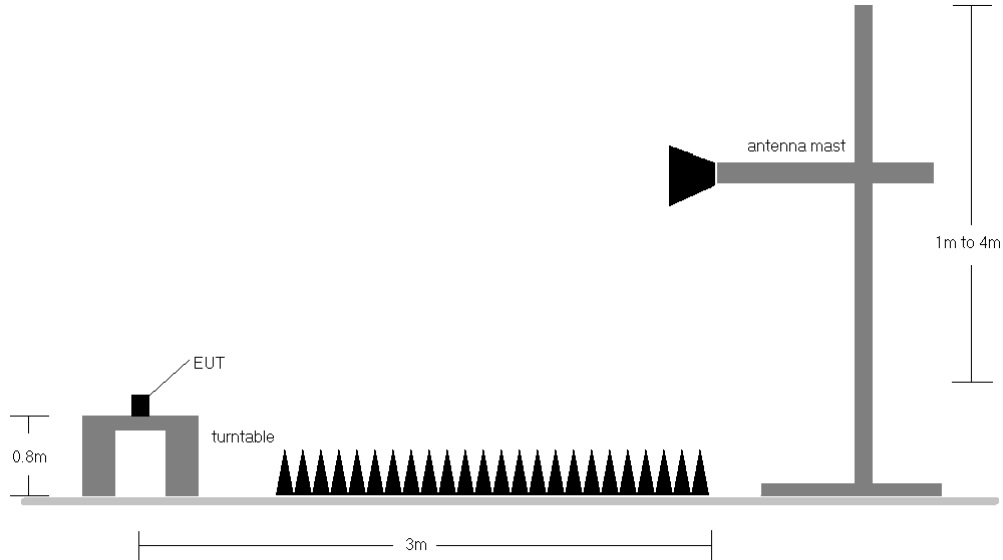




Figure 7-3. Test Instrument & Measurement Setup

Test Notes

- 1) This device employs GSM, GPRS, and EDGE capabilities. The EUT was tested under all configurations and the highest power is reported in GSM mode using a Power Control Level of "0" in the PCS Band and "5" in the Cellular Band.
- 2) This device employs UMTS technology with WCDMA (AMR/RMC) and HSDPA capabilities. The EUT was tested under all configurations and the highest power is reported in WCDMA mode with HSDPA Inactive at 12.2 kbps RMC and TPC bits all set to "1."
- 3) This device was tested under all RC and SO combinations and the worst case is reported with RC3/SO55 with "All Up" power control bits.
- 4) This unit was tested with its standard battery.
- 5) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case setup is reported in the tables below.
- 6) The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
- 7) Emissions below 18GHz were measured at a 3 meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
- 8) The "-" shown in the following RSE tables are used to denote a noise floor measurement.

FCC ID: ZNFG011C		FCC Pt. 22, 24, & 27 CDMA / GSM / GPRS / EGPRS / WCDMA MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Quality Manager
Test Report S/N: 1M1708030234-02.ZNF	Test Dates: 8/09/2017-8/30/2017	EUT Type: Portable Handset	Page 20 of 32	

OPERATING FREQUENCY: 824.20 MHz
 CHANNEL: 128
 MEASURED OUTPUT POWER: 27.05 dBm = 0.507 W
 MODULATION SIGNAL: GSM (GMSK)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 40.05 dBc



Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBd]	Spurious Emission Level [dBm]	[dBc]
1648.40	V	128	339	-53.53	3.66	-49.87	76.9
2472.60	V	104	103	-46.03	3.57	-42.45	69.5
3296.80	V	-	-	-61.23	5.65	-55.58	82.6

Table 7-9. Radiated Spurious Data (Cellular GSM Mode – Ch. 128)

OPERATING FREQUENCY: 836.60 MHz
 CHANNEL: 190
 MEASURED OUTPUT POWER: 26.14 dBm = 0.411 W
 MODULATION SIGNAL: GSM (GMSK)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 39.14 dBc

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBd]	Spurious Emission Level [dBm]	[dBc]
1673.20	H	100	120	-53.86	3.58	-50.28	76.4
2509.80	H	180	120	-42.88	3.62	-39.26	65.4
3346.40	H	-	-	-62.54	5.76	-56.78	82.9

Table 7-10. Radiated Spurious Data (Cellular GSM Mode – Ch. 190)

FCC ID: ZNFG011C		FCC Pt. 22, 24, & 27 CDMA / GSM / GPRS / EGPRS / WCDMA MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Quality Manager
Test Report S/N: 1M1708030234-02.ZNF	Test Dates: 8/09/2017-8/30/2017	EUT Type: Portable Handset	Page 21 of 32	

OPERATING FREQUENCY: 848.80 MHz
 CHANNEL: 251
 MEASURED OUTPUT POWER: 26.60 dBm = 0.457 W
 MODULATION SIGNAL: GSM (GMSK)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 39.60 dBc



Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBd]	Spurious Emission Level [dBm]	[dBc]
1697.60	H	100	155	-55.62	3.49	-52.13	78.7
2546.40	H	160	110	-41.71	3.75	-37.96	64.6
3395.20	H	-	-	-63.49	5.82	-57.68	84.3

Table 7-11. Radiated Spurious Data (Cellular GSM Mode – Ch. 251)

OPERATING FREQUENCY: 824.70 MHz
 CHANNEL: 1013
 MEASURED OUTPUT POWER: 17.18 dBm = 0.052 W
 MODULATION SIGNAL: CDMA
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 30.18 dBc

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBd]	Spurious Emission Level [dBm]	[dBc]
1649.40	H	-	-	-76.05	6.70	-69.35	86.5
2474.10	H	-	-	-72.98	7.52	-65.46	82.6

Table 7-12. Radiated Spurious Data (Cellular CDMA Mode – Ch. 1013)

FCC ID: ZNFG011C		FCC Pt. 22, 24, & 27 CDMA / GSM / GPRS / EGPRS / WCDMA MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Quality Manager
Test Report S/N: 1M1708030234-02.ZNF	Test Dates: 8/09/2017-8/30/2017	EUT Type: Portable Handset	Page 22 of 32	

OPERATING FREQUENCY: 836.52 MHz
 CHANNEL: 384
 MEASURED OUTPUT POWER: 18.00 dBm = 0.063 W
 MODULATION SIGNAL: CDMA
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 31.00 dBc



Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBd]	Spurious Emission Level [dBm]	[dBc]
1673.04	H	-	-	-75.89	6.70	-69.19	87.2
2509.56	H	-	-	-73.67	7.63	-66.04	84.0

Table 7-13. Radiated Spurious Data (Cellular CDMA Mode – Ch. 384)

OPERATING FREQUENCY: 848.31 MHz
 CHANNEL: 777
 MEASURED OUTPUT POWER: 16.42 dBm = 0.044 W
 MODULATION SIGNAL: CDMA
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 29.42 dBc

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBd]	Spurious Emission Level [dBm]	[dBc]
1696.62	H	-	-	-75.10	6.70	-68.40	84.8
2544.93	H	239	159	-72.15	7.60	-64.55	81.0
3393.24	H	-	-	-70.28	7.67	-62.61	79.0

Table 7-14. Radiated Spurious Data (Cellular CDMA Mode – Ch. 777)

FCC ID: ZNFG011C		FCC Pt. 22, 24, & 27 CDMA / GSM / GPRS / EGPRS / WCDMA MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Quality Manager
Test Report S/N: 1M1708030234-02.ZNF	Test Dates: 8/09/2017-8/30/2017	EUT Type: Portable Handset	Page 23 of 32	

OPERATING FREQUENCY: 826.40 MHz
 CHANNEL: 4132
 MEASURED OUTPUT POWER: 17.10 dBm = 0.051 W
 MODULATION SIGNAL: WCDMA
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10}(W) =$ 30.10 dBc



Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBd]	Spurious Emission Level [dBm]	[dBc]
1652.80	H	-	-	-63.56	3.65	-59.92	77.0
2479.20	H	-	-	-59.07	3.58	-55.50	72.6

Table 7-15. Radiated Spurious Data (Cellular WCDMA Mode – Ch. 4132)

OPERATING FREQUENCY: 836.60 MHz
 CHANNEL: 4183
 MEASURED OUTPUT POWER: 17.49 dBm = 0.056 W
 MODULATION SIGNAL: WCDMA
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10}(W) =$ 30.49 dBc

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBd]	Spurious Emission Level [dBm]	[dBc]
1673.20	H	-	-	-62.20	3.58	-58.62	76.1
2509.80	H	-	-	-58.88	3.62	-55.26	72.7

Table 7-16. Radiated Spurious Data (Cellular WCDMA Mode – Ch. 4183)

FCC ID: ZNFG011C		FCC Pt. 22, 24, & 27 CDMA / GSM / GPRS / EGPRS / WCDMA MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Quality Manager
Test Report S/N: 1M1708030234-02.ZNF	Test Dates: 8/09/2017-8/30/2017	EUT Type: Portable Handset	Page 24 of 32	

OPERATING FREQUENCY: 846.60 MHz
 CHANNEL: 4233
 MEASURED OUTPUT POWER: 17.19 dBm = 0.052 W
 MODULATION SIGNAL: WCDMA
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10}(W) =$ 30.19 dBc



Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBd]	Spurious Emission Level [dBm]	[dBc]
1693.20	H	-	-	-61.91	3.51	-58.41	75.6
2539.80	H	-	-	-59.09	3.73	-55.36	72.6

Table 7-17. Radiated Spurious Data (Cellular WCDMA Mode – Ch. 4233)

OPERATING FREQUENCY: 1712.40 MHz
 CHANNEL: 1312
 MEASURED OUTPUT POWER: 21.44 dBm = 0.139 W
 MODULATION SIGNAL: WCDMA
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10}(W) =$ 34.44 dBc

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	[dBc]
3424.80	H	-	-	-64.62	8.11	-56.51	77.9
5137.20	H	-	-	-64.60	10.24	-54.37	75.8

Table 7-18. Radiated Spurious Data (AWS WCDMA Mode – Ch. 1312)

FCC ID: ZNFG011C		FCC Pt. 22, 24, & 27 CDMA / GSM / GPRS / EGPRS / WCDMA MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Quality Manager
Test Report S/N: 1M1708030234-02.ZNF	Test Dates: 8/09/2017-8/30/2017	EUT Type: Portable Handset	Page 25 of 32	

OPERATING FREQUENCY: 1732.60 MHz
 CHANNEL: 1413
 MEASURED OUTPUT POWER: 22.20 dBm = 0.166 W
 MODULATION SIGNAL: WCDMA
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10}(W) =$ 35.20 dBc



Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	[dBc]
3465.20	H	-	-	-65.38	8.33	-57.05	79.2
5197.80	H	-	-	-64.49	10.27	-54.22	76.4

Table 7-19. Radiated Spurious Data (AWS WCDMA Mode – Ch. 1413)

OPERATING FREQUENCY: 1752.60 MHz
 CHANNEL: 1513
 MEASURED OUTPUT POWER: 21.32 dBm = 0.136 W
 MODULATION SIGNAL: WCDMA
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10}(W) =$ 34.32 dBc

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	[dBc]
3505.20	H	-	-	-64.62	8.52	-56.11	77.4
5257.80	H	-	-	-62.78	10.29	-52.49	73.8

Table 7-20. Radiated Spurious Data (AWS WCDMA Mode – Ch. 1513)

FCC ID: ZNFG011C		FCC Pt. 22, 24, & 27 CDMA / GSM / GPRS / EGPRS / WCDMA MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Quality Manager
Test Report S/N: 1M1708030234-02.ZNF	Test Dates: 8/09/2017-8/30/2017	EUT Type: Portable Handset	Page 26 of 32	

OPERATING FREQUENCY: 1850.20 MHz
 CHANNEL: 512
 MEASURED OUTPUT POWER: 30.32 dBm = 1.076 W
 MODULATION SIGNAL: GSM (GMSK)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10}(W) =$ 43.32 dBc



Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	[dBc]
3700.40	H	-	-	-64.16	8.30	-55.86	86.2
5550.60	H	155	342	-62.93	10.52	-52.41	82.7
7400.80	H	-	-	-57.12	11.91	-45.21	75.5

Table 7-21. Radiated Spurious Data (PCS GSM Mode – Ch. 512)

OPERATING FREQUENCY: 1880.00 MHz
 CHANNEL: 661
 MEASURED OUTPUT POWER: 30.42 dBm = 1.103 W
 MODULATION SIGNAL: GSM (GMSK)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10}(W) =$ 43.42 dBc

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	[dBc]
3760.00	H	-	-	-64.18	8.46	-55.72	86.1
5640.00	H	165	340	-62.40	10.60	-51.80	82.2
7520.00	H	-	-	-56.30	12.11	-44.19	74.6

Table 7-22. Radiated Spurious Data (PCS GSM Mode – Ch. 661)

FCC ID: ZNFG011C		FCC Pt. 22, 24, & 27 CDMA / GSM / GPRS / EGPRS / WCDMA MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Quality Manager
Test Report S/N: 1M1708030234-02.ZNF	Test Dates: 8/09/2017-8/30/2017	EUT Type: Portable Handset	Page 27 of 32	

OPERATING FREQUENCY: 1909.80 MHz
 CHANNEL: 810
 MEASURED OUTPUT POWER: 28.69 dBm = 0.739 W
 MODULATION SIGNAL: GSM (GMSK)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 41.69 dBc



Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	[dBc]
3819.60	H	-	-	-64.47	8.56	-55.91	84.6
5729.40	H	124	180	-61.39	10.64	-50.75	79.4
7639.20	H	-	-	-56.38	12.20	-44.19	72.9

Table 7-23. Radiated Spurious Data (PCS GSM Mode – Ch. 810)

OPERATING FREQUENCY: 1851.25 MHz
 CHANNEL: 25
 MEASURED OUTPUT POWER: 23.02 dBm = 0.200 W
 MODULATION SIGNAL: CDMA
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 36.02 dBc

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	[dBc]
3702.50	H	176	318	-66.19	9.52	-56.67	79.7
5553.75	H	-	-	-67.63	11.02	-56.61	79.6

Table 7-24. Radiated Spurious Data (PCS CDMA Mode – Ch. 25)

FCC ID: ZNFG011C		FCC Pt. 22, 24, & 27 CDMA / GSM / GPRS / EGPRS / WCDMA MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Quality Manager
Test Report S/N: 1M1708030234-02.ZNF	Test Dates: 8/09/2017-8/30/2017	EUT Type: Portable Handset	Page 28 of 32	

OPERATING FREQUENCY: 1880.00 MHz
 CHANNEL: 600
 MEASURED OUTPUT POWER: 22.84 dBm = 0.192 W
 MODULATION SIGNAL: CDMA
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 35.84 dBc



Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	[dBc]
3760.00	H	195	317	-63.89	9.39	-54.51	77.3
5640.00	H	-	-	-67.72	11.22	-56.50	79.3

Table 7-25. Radiated Spurious Data (PCS CDMA Mode – Ch. 600)

OPERATING FREQUENCY: 1908.75 MHz
 CHANNEL: 1175
 MEASURED OUTPUT POWER: 22.90 dBm = 0.195 W
 MODULATION SIGNAL: CDMA
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 35.90 dBc

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	[dBc]
3817.50	H	-	-	-67.76	9.32	-58.44	81.3
5726.25	H	-	-	-67.35	11.36	-55.99	78.9

Table 7-26. Radiated Spurious Data (PCS CDMA Mode – Ch. 1175)

FCC ID: ZNFG011C		FCC Pt. 22, 24, & 27 CDMA / GSM / GPRS / EGPRS / WCDMA MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Quality Manager
Test Report S/N: 1M1708030234-02.ZNF	Test Dates: 8/09/2017-8/30/2017	EUT Type: Portable Handset	Page 29 of 32	

OPERATING FREQUENCY: 1852.40 MHz
 CHANNEL: 9262
 MEASURED OUTPUT POWER: 23.96 dBm = 0.249 W
 MODULATION SIGNAL: WCDMA
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10}(W) =$ 36.96 dBc



Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	[dBc]
3704.80	H	-	-	-63.68	8.31	-55.37	79.3
5557.20	H	-	-	-63.65	10.54	-53.12	77.1

Table 7-27. Radiated Spurious Data (PCS WCDMA Mode – Ch. 9262)

OPERATING FREQUENCY: 1880.00 MHz
 CHANNEL: 9400
 MEASURED OUTPUT POWER: 23.28 dBm = 0.213 W
 MODULATION SIGNAL: WCDMA
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10}(W) =$ 36.28 dBc

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	[dBc]
3760.00	H	-	-	-63.83	8.46	-55.37	78.7
5640.00	H	-	-	-63.60	10.60	-53.00	76.3



Table 7-28. Radiated Spurious Data (PCS WCDMA Mode – Ch. 9400)

FCC ID: ZNFG011C		FCC Pt. 22, 24, & 27 CDMA / GSM / GPRS / EGPRS / WCDMA MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Quality Manager
Test Report S/N: 1M1708030234-02.ZNF	Test Dates: 8/09/2017-8/30/2017	EUT Type: Portable Handset	Page 30 of 32	

OPERATING FREQUENCY: 1907.60 MHz
 CHANNEL: 9538
 MEASURED OUTPUT POWER: 23.01 dBm = 0.200 W
 MODULATION SIGNAL: WCDMA
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10}(W) =$ 36.01 dBc



Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	[dBc]
3815.20	H	-	-	-63.27	8.56	-54.71	77.7
5722.80	H	-	-	-63.57	10.63	-52.94	76.0

Table 7-29. Radiated Spurious Data (PCS WCDMA Mode – Ch. 9538)

FCC ID: ZNFG011C		FCC Pt. 22, 24, & 27 CDMA / GSM / GPRS / EGPRS / WCDMA MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Quality Manager
Test Report S/N: 1M1708030234-02.ZNF	Test Dates: 8/09/2017-8/30/2017	EUT Type: Portable Handset		Page 31 of 32

8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **LG Portable Handset FCC ID: ZNFG011C** complies with all the requirements of Parts 22, 24, & 27 of the FCC rules.

FCC ID: ZNFG011C		FCC Pt. 22, 24, & 27 CDMA / GSM / GPRS / EGPRS / WCDMA MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Quality Manager
Test Report S/N: 1M1708030234-02.ZNF	Test Dates: 8/09/2017-8/30/2017	EUT Type: Portable Handset	Page 32 of 32	