

PCTEST ENGINEERING LABORATORY, INC.

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MEASUREMENT REPORT FCC Part 22, 24, & 27 LTE

Applicant Name:

LG Electronics MobileComm U.S.A 1000 Sylvan Avenue Englewood Cliffs, NJ 07632 United States Date of Testing: 11/8 - 11/18/2016 Test Site/Location: PCTEST Lab., Columbia, MD, USA Test Report Serial No.: 0Y1611071708.ZNF

ZNFW280

APPLICANT:

FCC ID :

LG ELECTRONICS MOBILECOMM U.S.A

Application Type:	Class II Permissive Change
FCC Classification:	PCS Licensed Transmitter Worn on Body (PCT)
FCC Rule Part(s):	§2; §22; §24; §27
Test Procedure(s):	ANSI/TIA-603-D-2010, KDB 971168 D01 v02r02, KDB 648474 D03 v01r04
EUT Type:	Portable Wrist Device
Model(s):	LG-W280, LGW280, W280, LG-W280A, LGW280A, W280A, LG-W280V, LGW280V, W280V
Test Device Serial No.:	identical prototype [S/N: 23865]
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



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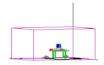


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MEASUREMENT REPORT FCC Part 22, 24, & 27



§2.1033 General Information

APPLICANT:	LG Electronics MobileCom	m U.S.A		
APPLICANT ADDRESS:	1000 Sylvan Avenue			
	Englewood Cliffs, NJ 07632	2, United States		
TEST SITE:	PCTEST ENGINEERING L	ABORATORY, INC.		
TEST SITE ADDRESS:	7185 Oakland Mills Road, (Columbia, MD 21045	5 USA	
FCC RULE PART(S):	§2; §22; §24; §27			
BASE MODEL:	LG-W280			
FCC ID:	ZNFW280			
FCC CLASSIFICATION:	PCS Licensed Transmitter	Worn on Body (PCT)	
FREQUENCY TOLERANCE:	±0.00025 % (2.5 ppm)			
Test Device Serial No.:	23865	Production	Pre-Production	Engineering
DATE(S) OF TEST:	11/8 - 11/18/2016			
TEST REPORT S/N:	0Y1611071708.ZNF			

Test Facility / Accreditations

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

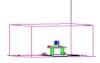


- PCTEST facility is an FCC registered (PCTEST Reg. No. 159966) test facility with the site description report on file and has met all the requirements specified in Section 2.948 of the FCC Rules and Industry Canada (2451B-1).
- PCTEST Lab is accredited to ISO 17025 by U.S. National Institute of Standards 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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			ERP/	EIRP	
Mode	FCC Rule	Tx Frequency (MHz)	Max. Pow er	Max. Pow er	Modulation
mede	Part		(W)	(dBm)	modulation
LTE Band 13	27	779.5 - 784.5	0.043	16.35	QPSK
LTE Band 13	27	779.5 - 784.5	0.031	14.91	16QAM
LTE Band 13	27	782	0.045	16.51	QPSK
LTE Band 13	27	782	0.034	15.28	16QAM
LTE Band 5	22H	824.7 - 848.3	0.070	18.43	QPSK
LTE Band 5	22H	824.7 - 848.3	0.049	16.90	16QAM
LTE Band 5	22H	825.5 - 847.5	0.066	18.17	QPSK
LTE Band 5	22H	825.5 - 847.5	0.052	17.19	16QAM
LTE Band 5	22H	826.5 - 846.5	0.063	18.02	QPSK
LTE Band 5	22H	826.5 - 846.5	0.046	16.61	16QAM
LTE Band 5	22H	829 - 844	0.068	18.33	QPSK
LTE Band 5	22H	829 - 844	0.048	16.84	16QAM
LTE Band 4	27	1710.7 - 1754.3	0.090	19.53	QPSK
LTE Band 4	27	1710.7 - 1754.3	0.066	18.20	16QAM
LTE Band 4	27	1711.5 - 1753.5	0.127	21.03	QPSK
LTE Band 4	27	1711.5 - 1753.5	0.097	19.85	16QAM
LTE Band 4	27	1712.5 - 1752.5	0.129	21.11	QPSK
LTE Band 4	27	1712.5 - 1752.5	0.110	20.39	16QAM
LTE Band 4	27	1715 - 1750	0.108	20.35	QPSK
LTE Band 4	27	1715 - 1750	0.091	19.57	16QAM
LTE Band 4	27	1717.5 - 1747.5	0.097	19.87	QPSK
LTE Band 4	27	1717.5 - 1747.5	0.074	18.69	16QAM
LTE Band 4	27	1720 - 1745	0.112	20.48	QPSK
LTE Band 4	27	1720 - 1745	0.094	19.73	16QAM
LTE Band 2	24E	1850.7 - 1909.3	0.073	18.63	QPSK
LTE Band 2	24E	1850.7 - 1909.3	0.048	16.85	16QAM
LTE Band 2	24E	1851.5 - 1908.5	0.117	20.69	QPSK
LTE Band 2	24E	1851.5 - 1908.5	0.100	19.98	16QAM
LTE Band 2	24E	1852.5 - 1907.5	0.128	21.06	QPSK
LTE Band 2	24E	1852.5 - 1907.5	0.108	20.35	16QAM
LTE Band 2	24E	1855 - 1905	0.116	20.66	QPSK
LTE Band 2	24E	1855 - 1905	0.068	18.30	16QAM
LTE Band 2	24E	1857.5 - 1902.5	0.101	20.03	QPSK
LTE Band 2	24E	1857.5 - 1902.5	0.080	19.01	16QAM
LTE Band 2	24E	1860 - 1900	0.132	21.19	QPSK
LTE Band 2	24E	1860 - 1900	0.106	20.23	16QAM

EUT Overview

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INTRODUCTION 1.0

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 Internt'I (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.

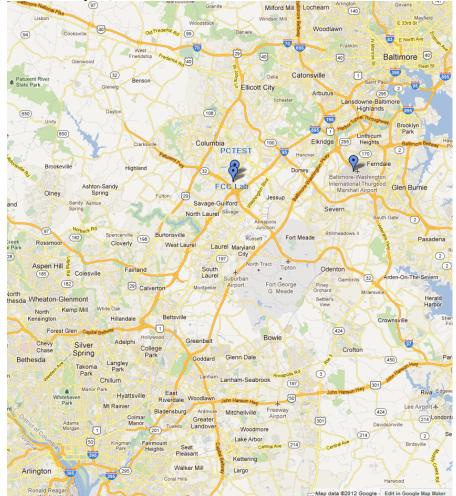


Figure 1-1. Map of the Greater Baltimore and Metropolitan Washington, D.C. area

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2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **LG Portable Wrist Device FCC ID: ZNFW280**. The test data contained in this report pertains only to the emissions due to the EUT's LTE function.

2.2 Device Capabilities

This device contains the following capabilities:

850/1900 GPRS/EDGE, 850/1700/1900 WCDMA, Multi-band LTE, 802.11b/g/n WLAN, Bluetooth (1x, EDR, LE)

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 and antenna port conducted emissions tests.

This device supports wireless charging capability and, thus, is subject to the test requirements of KDB 648474 D03 v01r04. Additional radiated spurious emission measurements were performed with the EUT lying flat on a certified wireless charging pad (WCP) while operating under normal conditions in a simulated call or data transmission configuration. The worst case radiated emissions data is 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.

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3.0 DESCRIPTION OF TESTS

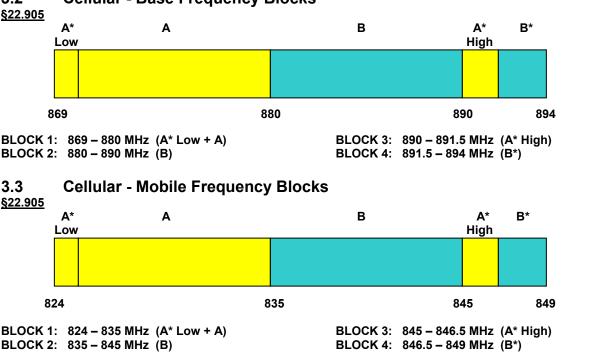
3.1 Measurement Procedure

The measurement procedures described in the document titled "Land Mobile FM or PM – Communications Equipment – Measurements and Performance Standards" (ANSI/TIA-603-D-2010) and "Procedures for Compliance Measurement of the Fundamental Emission Power of Licensed Wideband (> 1 MHz) Digital Transmission Systems" (KDB 971168 D01 v02r02) were used in the measurement of the EUT.

3.1 Block C Frequency Range

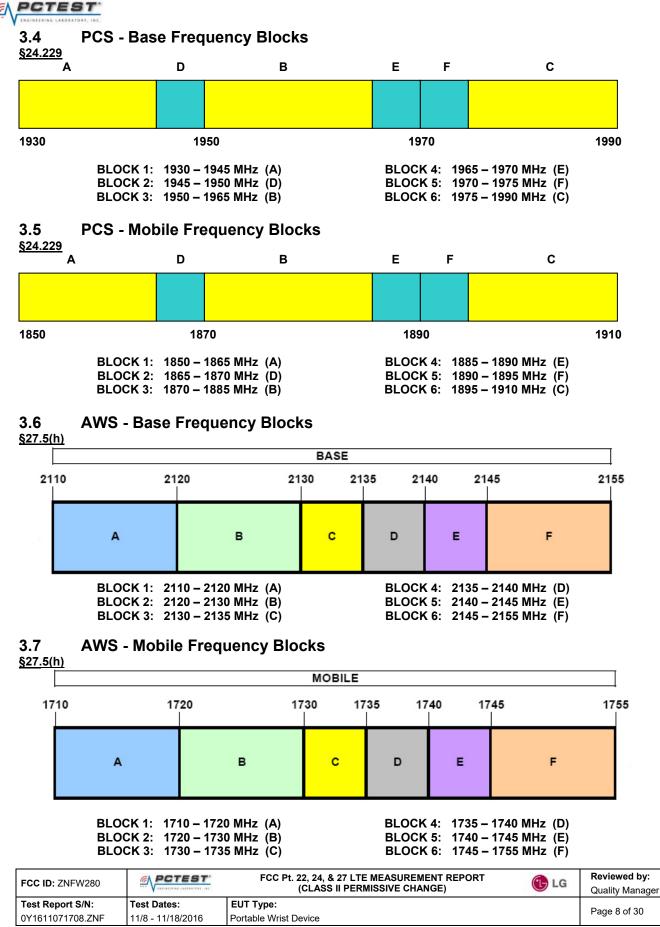
<u>§27.5(b)(3)</u>

Two paired channels of 11 megahertz each are available for assignment in Block C in the 746-757 MHz and 776-787 MHz bands. In the event that no licenses for two channels in this Block C are assigned based on the results of the first auction in which such licenses were offered because the auction results do not satisfy the applicable reserve price, the spectrum in the 746-757 MHz and 776-787 MHz bands will instead be made available for assignment at a subsequent auction as follows: (i) Two paired channels of 6 megahertz each available for assignment in Block C1 in the 746-752 MHz and 776-782 MHz bands. (ii) Two paired channels of 5 megahertz each available for assignment in Block C1 in the 746-752 MHz and 776-782 MHz bands.



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3.2 Cellular - Base Frequency Blocks



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3.8 Radiated Power and Radiated Spurious Emissions §2.1053 §22.913(a.2) §22.917(a) §24.232(c) §24.238(a) §27.50(b.10) §27.50(d.4) §27.53(f) §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. Radiated power levels are also investigated with the receive antenna horizontally and vertically polarized. The maximized power level is recorded using the spectrum analyzer "Channel Power" function with the integration band set to the emissions' occupied bandwidth, a RMS detector, RBW = 100kHz, VBW = 300kHz, and a 1 second sweep time over a minimum of 10 sweeps, per the guidelines of KDB 971168 D01 v02r02.

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:

Pd [dBm] = Pg [dBm] - cable loss [dB] + 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 $P_g [dBm]$ – cable loss [dB].

The calculated P_d levels are then compared to the absolute spurious emission limit of -13dBm which is equivalent to the required minimum attenuation of 43 + 10log₁₀(Power [Watts]).

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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 data shown herein 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 (±dB)
Conducted Bench Top Measurements	1.13
Radiated Disturbance (<1GHz)	4.98
Radiated Disturbance (>1GHz)	5.07
Radiated Disturbance (>18GHz)	5.09

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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
-	RE1	Radiated Emissions Cable Set (UHF/EHF)	7/11/2016	7/11/2016 Annual 7/11/2017		RE1
Com-Power	AL-130	9kHz - 30MHz Loop Antenna	7/30/2015	Biennial	7/30/2017	121034
Emco	3115	Horn Antenna (1-18GHz)	3/10/2016	Biennial	3/10/2018	9704-5182
EMCO	3160-09	Small Horn	8/23/2016	Biennial	8/23/2018	135427
ETS Lindgren	3117	1-18 GHz DRG Horn (Medium)	4/26/2016	Biennial	4/26/2018	125518
ETS Lindgren	3164-08	Quad Ridge Horn Antenna	4/26/2016	Biennial	4/26/2018	128337
Mini Circuits	PWR-SEN-4GHS	USB Power Sensor	3/4/2016	Annual	3/4/2017	11401010036
Mini Circuits	TVA-11-422	RF Power Amp	N/A			QA1317001
Mini-Circuits	SSG-4000HP	Synthesized Signal Generator		N/A	11208010032	
Mini-Circuits	TVA-11-422	RF Power Amp	N/A			QA1303002
PCTEST	-	EMC Switch System	7/11/2016	Annual	7/11/2017	NM1
Rohde & Schwarz	CMW500	Radio Communication Tester	10/20/2016	Annual	10/20/2017	100976
Rohde & Schwarz	ESU26	EMI Test Receiver (26.5GHz)	5/16/2016	Annual	5/16/2017	100342
Rohde & Schwarz	ESU40	EMI Test Receiver (40GHz)	7/15/2016	Annual	7/15/2017	100348
Rohde & Schwarz	FSW67	Signal / Spectrum Analyzer	7/27/2016	Annual	7/27/2017	103200
Rohde & Schwarz	TS-PR26	18-26.5 GHz Pre-Amplifier	3/7/2016	Annual	3/7/2017	100040
Schwarzbeck	UHA 9105	Dipole Antenna (400 - 1GHz) Rx	3/30/2016	Biennial	3/30/2018	9105-2404
Schwarzbeck	UHA 9105	Dipole Antenna (400 - 1GHz) Tx	3/30/2016	Biennial	3/30/2018	9105-2403
Seekonk	NC-100	Torque Wrench 5/16", 8" lbs	3/2/2016	Biennial	3/2/2018	N/A
Sunol	DRH-118	Horn Antenna (1-18GHz)	7/30/2015	Biennial	7/30/2017	A050307
Sunol	JB5	Bi-Log Antenna (30M - 5GHz)	3/14/2016	Biennial	3/14/2018	A051107

Table 5-1. Test Equipment

Note:

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

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6.0 SAMPLE CALCULATIONS

Spurious Radiated Emission – LTE Band

Example: Middle Channel LTE Mode 2nd Harmonic (1564 MHz)

The average 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 1564 MHz. So 6.1 dB is added to the signal generator reading of -30.9 dBm yielding -24.80 dBm. The fundamental EIRP was 25.501 dBm so this harmonic was 25.501 dBm – (-24.80).

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7.0 TEST RESULTS

7.1 Summary

Company Name:	LG Electronics MobileComm U.S.A
FCC ID:	ZNFW280
FCC Classification:	PCS Licensed Transmitter Worn on Body (PCT)
Mode(s):	LTE

FCC Part Section(s)	Test Description	Test Limit	Test Condition	Result	Reference
22.913(a.2)	Effective Radiated Power (Band 5)	< 7 Watts max. ERP		PASS	Section 7.2
27.50(b.10)	Effective Radiated Power (Band 13)	< 3 Watts max. ERP		PASS	Section 7.2
24.232(c)	Equivalent Isotropic Radiated Power (Band 2)	< 2 Watts max. EIRP		PASS	Section 7.2
27.50(d.4)	Equivalent Isotropic Radiated Power (Band 4)	< 1 Watts max. EIRP	RADIATED	PASS	Section 7.2
2.1053 22.917(a) 24.238(a) 27.53(c) 27.53(h)	Undesirable Emissions	> 43 + 10log ₁₀ (P[Watts]) for all out-of-band emissions		PASS	Section 7.3
27.53(f)	Undesirable Emissions (Band 13)	< -70 dBW/MHz (for wideband signals) < -80 dBW (for discrete emissions less than 700Hz BW) For all emissions in the band 1559 – 1610 MHz		PASS	Section 7.3
Nata	1	Table 7-1. Summary of Test Results			

Note:

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

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7.2 Radiated Power (ERP/EIRP) §22.913(a.2) §24.232(c.2) §27.50(b.10) §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 its maximum duty cycle, 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.
- 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 > 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".
- 8. The integration bandwidth was roughly set equal to the measured OBW of the signal for signals with continuous operation.
- 9. Trace mode = trace averaging (RMS) over 100 sweeps
- 10. The trace was allowed to stabilize

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Test Setup

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

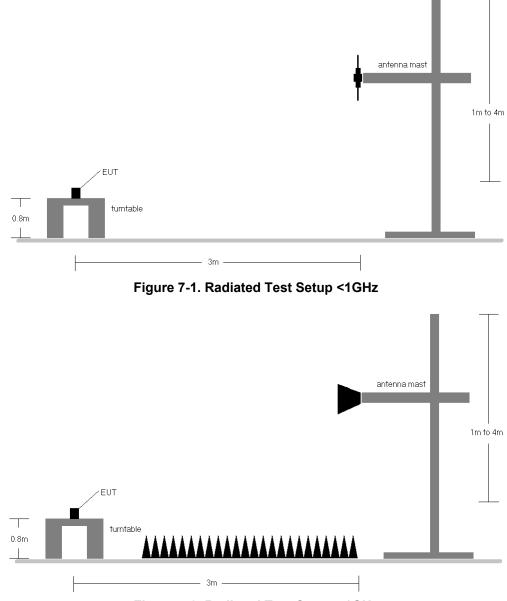


Figure 7-2. Radiated Test Setup >1GHz

Test Notes

- 1) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 2) This unit was tested with its standard battery.

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Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	RB Size/Offset	Substitute Level [dBm]	Ant. Gain [dBd]	ERP [dBm]	ERP Limit [dBm]	Margin [dB]
779.50	5	QPSK	н	226	341	1 / 24	11.53	4.19	15.72	34.77	-19.05
782.00	5	QPSK	н	226	341	1 / 24	12.10	4.25	16.35	34.77	-18.42
784.50	5	QPSK	н	226	341	1 / 24	11.99	4.32	16.31	34.77	-18.46
779.50	5	16QAM	н	226	341	1 / 24	10.55	4.19	14.74	34.77	-20.03
782.00	5	16QAM	н	226	341	1 / 24	10.66	4.25	14.91	34.77	-19.86
784.50	5	16QAM	н	226	341	1 / 24	10.41	4.32	14.73	34.77	-20.04
782.00	10	QPSK	н	226	341	1 / 49	12.26	4.25	16.51	34.77	-18.26
782.00	10	16QAM	н	226	341	1 / 49	11.03	4.25	15.28	34.77	-19.49
782.00	10	QPSK	V	125	191	1 / 74	11.43	4.47	15.90	34.77	-18.87

Table 7-2. ERP Data (Band 13)

FCC ID: ZNFW280		FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Reviewed by: Quality Manager	
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Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	RB Size/Offset	Substitute Level [dBm]	Ant. Gain [dBd]	ERP [dBm]	ERP Limit [dBm]	Margin [dB]
824.70	1.4	QPSK	н	225	144	1 / 0	13.42	5.01	18.43	38.45	-20.02
836.50	1.4	QPSK	н	224	165	1 / 0	12.01	5.16	17.17	38.45	-21.28
848.30	1.4	QPSK	н	224	165	1 / 0	10.06	5.30	15.36	38.45	-23.09
824.70	1.4	16-QAM	н	225	144	1 / 0	11.89	5.01	16.90	38.45	-21.55
836.50	1.4	16-QAM	Н	224	165	1 / 0	10.68	5.16	15.84	38.45	-22.61
848.30	1.4	16-QAM	Н	224	165	1 / 0	8.82	5.30	14.12	38.45	-24.33
825.50	3	QPSK	Н	225	144	1 / 0	13.15	5.02	18.17	38.45	-20.28
836.50	3	QPSK	Н	224	165	1 / 0	12.22	5.16	17.38	38.45	-21.07
847.50	3	QPSK	Н	224	165	1 / 0	9.90	5.29	15.19	38.45	-23.26
825.50	3	16-QAM	н	225	144	1 / 0	12.17	5.02	17.19	38.45	-21.26
836.50	3	16-QAM	н	224	165	1 / 0	11.01	5.16	16.17	38.45	-22.28
847.50	3	16-QAM	Н	224	165	1 / 0	8.46	5.29	13.75	38.45	-24.70
826.50	5	QPSK	Н	225	144	1 / 0	12.99	5.03	18.02	38.45	-20.43
836.50	5	QPSK	Н	224	165	1 / 0	11.56	5.16	16.72	38.45	-21.73
846.50	5	QPSK	Н	224	165	1 / 0	9.40	5.28	14.68	38.45	-23.77
826.50	5	16-QAM	Н	225	144	1 / 0	11.58	5.03	16.61	38.45	-21.84
836.50	5	16-QAM	Н	224	165	1 / 0	10.37	5.16	15.53	38.45	-22.92
846.50	5	16-QAM	Н	224	165	1 / 0	8.28	5.28	13.56	38.45	-24.89
829.00	10	QPSK	Н	225	144	1 / 49	13.27	5.06	18.33	38.45	-20.12
836.50	10	QPSK	Н	224	165	1 / 0	12.27	5.16	17.43	38.45	-21.02
844.00	10	QPSK	Н	224	165	1 / 0	9.80	5.25	15.05	38.45	-23.40
829.00	10	16-QAM	Н	225	144	1 / 0	11.78	5.06	16.84	38.45	-21.61
836.50	10	16-QAM	Н	224	165	1 / 0	10.84	5.16	16.00	38.45	-22.45
844.00	10	16-QAM	н	224	165	1 / 0	8.73	5.25	13.98	38.45	-24.47
824.70	1.4	QPSK	V	151	212	1 / 0	11.43	4.95	16.38	38.45	-22.07

Table 7-3. ERP Data (Band 5)

FCC ID: ZNFW280		FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Reviewed by: Quality Manager			
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Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	RB Size/Offset	Substitute Level [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	Margin [dB]
1710.70	1.4	QPSK	н	177	24	1/0	9.28	9.66	18.94	30.00	-11.06
1732.50	1.4	QPSK	н	175	21	1/5	9.92	9.61	19.53	30.00	-10.47
1754.30	1.4	QPSK	н	175	21	1 / 0	9.13	9.57	18.70	30.00	-11.30
1710.70	1.4	16-QAM	н	175	21	1/0	8.30	9.66	17.96	30.00	-12.04
1732.50	1.4	16-QAM	н	175	21	1 / 5	8.59	9.61	18.20	30.00	-11.80
1754.30	1.4	16-QAM	н	175	21	1/0	8.02	9.57	17.59	30.00	-12.41
1711.50	3	QPSK	н	175	22	1 / 0	11.03	9.65	20.68	30.00	-9.32
1732.50	3	QPSK	н	175	22	1/0	10.64	9.61	20.25	30.00	-9.75
1753.50	3	QPSK	н	175	22	1 / 14	11.46	9.57	21.03	30.00	-8.97
1711.50	3	16-QAM	н	175	22	1 / 14	10.13	9.65	19.78	30.00	-10.22
1732.50	3	16-QAM	н	175	22	1 / 0	10.24	9.61	19.85	30.00	-10.15
1753.50	3	16-QAM	н	175	22	1 / 14	9.13	9.57	18.70	30.00	-11.30
1712.50	5	QPSK	н	174	20	1 / 24	10.86	9.65	20.51	30.00	-9.49
1732.50	5	QPSK	н	174	20	1 / 0	10.11	9.61	19.72	30.00	-10.28
1752.50	5	QPSK	н	174	20	1 / 0	11.54	9.57	21.11	30.00	-8.89
1712.50	5	16-QAM	н	174	20	1 / 0	9.97	9.65	19.62	30.00	-10.38
1732.50	5	16-QAM	н	174	20	1 / 0	9.54	9.61	19.15	30.00	-10.85
1752.50	5	16-QAM	н	174	20	1 / 0	10.82	9.57	20.39	30.00	-9.61
1715.00	10	QPSK	н	176	18	1 / 49	9.93	9.65	19.58	30.00	-10.42
1732.50	10	QPSK	н	176	18	1 / 0	9.68	9.61	19.29	30.00	-10.71
1750.00	10	QPSK	н	176	18	1 / 0	10.77	9.58	20.35	30.00	-9.65
1715.00	10	16-QAM	н	176	18	1 / 49	9.02	9.65	18.67	30.00	-11.33
1732.50	10	16-QAM	н	176	18	1 / 0	9.50	9.61	19.11	30.00	-10.89
1750.00	10	16-QAM	н	176	18	1 / 0	9.99	9.58	19.57	30.00	-10.43
1717.50	15	QPSK	н	178	23	1 / 0	9.02	9.64	18.66	30.00	-11.34
1732.50	15	QPSK	н	178	23	1 / 0	8.64	9.61	18.25	30.00	-11.75
1747.50	15	QPSK	н	178	23	1 / 74	10.29	9.58	19.87	30.00	-10.13
1717.50	15	16-QAM	н	178	23	1 / 0	8.10	9.64	17.74	30.00	-12.26
1732.50	15	16-QAM	н	178	23	1 / 0	8.05	9.61	17.66	30.00	-12.34
1747.50	15	16-QAM	н	178	23	1 / 74	9.11	9.58	18.69	30.00	-11.31
1720.00	20	QPSK	н	177	24	1/0	9.40	9.64	19.04	30.00	-10.96
1732.50	20	QPSK	н	177	24	1/0	9.71	9.61	19.32	30.00	-10.68
1745.00	20	QPSK	н	177	24	1/0	10.89	9.59	20.48	30.00	-9.52
1720.00	20	16-QAM	н	177	24	1/0	8.98	9.64	18.62	30.00	-11.38
1732.50	20	16-QAM	н	177	24	1/0	9.04	9.61	18.65	30.00	-11.35
1745.00	20	16-QAM	н	177	24	1/0	10.14	9.59	19.73	30.00	-10.27
1752.50	5	QPSK	V	202	196	1/0	9.29	9.40	18.69	30.00	-11.31

Table 7-4. EIRP Data (Band 4)

FCC ID: ZNFW280		FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	🕒 LG	Reviewed by: Quality Manager
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Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	RB Size/Offset	Substitute Level [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	Margin [dB]
1850.70	1.4	QPSK	н	161	16	3 / 2	8.69	9.35	18.04	33.01	-14.97
1880.00	1.4	QPSK	н	161	16	3 / 2	9.36	9.27	18.63	33.01	-14.38
1909.30	1.4	QPSK	н	161	16	3 / 2	9.11	9.25	18.36	33.01	-14.65
1850.70	1.4	16-QAM	н	161	16	3 / 2	7.48	9.35	16.83	33.01	-16.18
1880.00	1.4	16-QAM	н	161	16	3 / 2	7.58	9.27	16.85	33.01	-16.16
1909.30	1.4	16-QAM	н	161	16	3 / 2	7.04	9.25	16.29	33.01	-16.72
1851.50	3	QPSK	н	161	20	1/0	11.14	9.35	20.48	33.01	-12.53
1880.00	3	QPSK	н	161	20	1 / 0	11.42	9.27	20.69	33.01	-12.32
1908.50	3	QPSK	н	161	20	1 / 0	10.67	9.25	19.92	33.01	-13.09
1851.50	3	16-QAM	н	161	20	1 / 0	9.09	9.35	18.44	33.01	-14.57
1880.00	3	16-QAM	н	161	20	1 / 0	10.71	9.27	19.98	33.01	-13.03
1908.50	3	16-QAM	н	161	20	1 / 0	8.69	9.25	17.94	33.01	-15.07
1852.50	5	QPSK	н	158	12	1 / 24	10.38	9.34	19.72	33.01	-13.29
1880.00	5	QPSK	н	158	12	1 / 0	11.79	9.27	21.06	33.01	-11.95
1907.50	5	QPSK	н	158	12	1 / 24	10.94	9.24	20.18	33.01	-12.83
1852.50	5	16-QAM	н	158	12	1 / 24	8.93	9.34	18.27	33.01	-14.74
1880.00	5	16-QAM	н	158	12	1 / 0	11.08	9.27	20.35	33.01	-12.66
1907.50	5	16-QAM	н	158	12	1 / 24	9.68	9.24	18.92	33.01	-14.09
1855.00	10	QPSK	н	161	21	1 / 0	11.32	9.34	20.66	33.01	-12.35
1880.00	10	QPSK	н	161	21	1 / 49	10.71	9.27	19.98	33.01	-13.03
1905.00	10	QPSK	н	161	21	1 / 0	10.36	9.24	19.59	33.01	-13.42
1855.00	10	16-QAM	н	161	21	1 / 0	8.82	9.34	18.16	33.01	-14.85
1880.00	10	16-QAM	н	161	21	1 / 49	8.19	9.27	17.46	33.01	-15.55
1905.00	10	16-QAM	н	161	21	1 / 0	9.06	9.24	18.30	33.01	-14.71
1857.50	15	QPSK	н	167	18	1 / 0	10.70	9.33	20.03	33.01	-12.98
1880.00	15	QPSK	н	167	18	1 / 74	10.68	9.27	19.95	33.01	-13.06
1902.50	15	QPSK	н	167	18	1 / 0	10.40	9.23	19.63	33.01	-13.38
1857.50	15	16-QAM	н	167	18	1 / 0	8.86	9.33	18.20	33.01	-14.82
1880.00	15	16-QAM	н	167	18	1 / 74	9.74	9.27	19.01	33.01	-14.00
1902.50	15	16-QAM	н	167	18	1 / 0	8.86	9.23	18.09	33.01	-14.92
1860.00	20	QPSK	н	163	12	1/0	11.87	9.32	21.19	33.01	-11.82
1880.00	20	QPSK	н	163	12	1 / 99	10.63	9.27	19.90	33.01	-13.11
1900.00	20	QPSK	н	163	12	1/0	10.77	9.22	19.99	33.01	-13.02
1860.00	20	16-QAM	н	163	12	1/0	10.91	9.32	20.23	33.01	-12.78
1880.00	20	16-QAM	н	163	12	1/0	9.84	9.27	19.11	33.01	-13.90
1900.00	20	16-QAM	н	163	12	1/0	9.97	9.22	19.19	33.01	-13.82
1860.00	20	QPSK	V	115	165	1 / 0	10.48	9.32	19.80	33.01	-13.21

Table 7-5. EIRP Data (Band 2)

FCC ID: ZNFW280		FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	🕒 LG	Reviewed by: Quality Manager	
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7.3 Radiated Spurious Emissions Measurements §2.1053 §22.917(a) §24.238(a) §27.53(c) §27.53(f) §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 vertically and horizontally polarized tuned dipole antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized tuned dipole antennas. Measurements on signals operating above 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 peak measurements while the EUT is operating at its maximum duty cycle, 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 > 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: ZNFW280		FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	LG	Reviewed by: Quality Manager		
Test Report S/N:	Test Dates:	EUT Type:		Dega 20 of 20		
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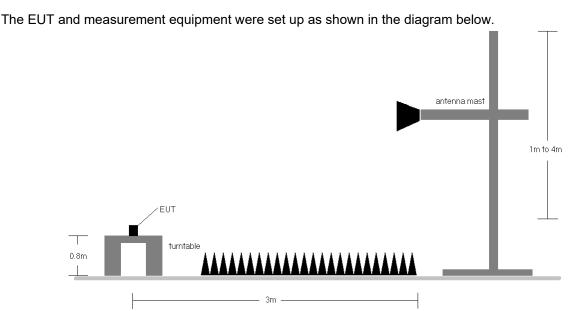


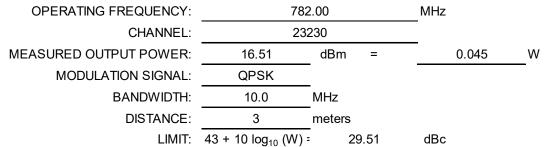
Figure 7-3. Test Instrument & Measurement Setup

Test Notes

- 1) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 2) This unit was tested with its standard battery.
- 3) The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
- 4) 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.
- 5) The "-" shown in the following RSE tables are used to denote a noise floor measurement.

FCC ID: ZNFW280		FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	🕒 LG	Reviewed by: Quality Manager		
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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]
2346.00	Н	-	-	-55.99	3.63	-52.35	68.9
3128.00	Н	-	-	-54.59	4.95	-49.64	66.2
3910.00	Н	-	-	-56.65	6.55	-50.10	66.6

Table 7-6. Radiated Spurious Data (Band 13 – Mid Channel)

MODULATION SIGNAL:	QPSK	
BANDWIDTH:	10.00	MHz
DISTANCE:	3	meters
WIDEBAND EMISSION LIMIT:	-40	dBm/MHz

F	requency [MHz]	Ant. Pol. [H/V]	Height	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBd]	Spurious Emission Level [dBm]	Margin [dB]
	1564.00	Н	100	43	-58.69	3.80	-54.89	-14.9

Table 7-7. Radiated Spurious Data (Band 13 – 1559-1610MHz Band)

FCC ID: ZNFW280		FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	🕒 LG	Reviewed by: Quality Manager			
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OPERATING FREQUENCY:	782	2.00	MHz
CHANNEL:	23	230	
MEASURED OUTPUT POWER:	16.51	dBm =	0.045 W
MODULATION SIGNAL:	QPSK	_	
BANDWIDTH:	10.0	MHz	
DISTANCE:	3	meters	
LIMIT:	43 + 10 log ₁₀ (W)	29.51	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]
2346.00	Н	-	-	-55.72	3.63	-52.08	68.6
3128.00	Н	-	-	-54.92	4.95	-49.97	66.5
3910.00	Н	-	-	-56.29	6.55	-49.74	66.3

Table 7-8. Radiated Spurious Data with WCP (Band 13 – Mid Channel)

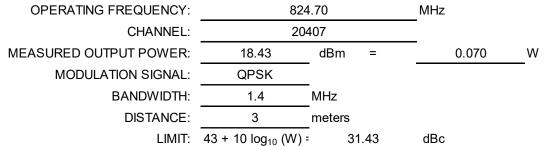
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	10.00	MHz
DISTANCE:	3	meters
WIDEBAND EMISSION LIMIT:	-40	dBm/MHz

IMH7I	Ant. Pol. [H/V]	Height	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBd]	Spurious Emission Level [dBm]	Margin [dB]
1564.00	Н	100	167	-59.18	3.80	-55.38	-15.4

Table 7-9. Radiated Spurious Data with WCP (Band 13 – 1559-1610MHz Band)

FCC ID: ZNFW280		FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	🕑 LG	Reviewed by: Quality Manager
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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	Н	121	195	-55.66	3.64	-52.02	70.4
2474.10	Н	113	200	-41.47	3.57	-37.91	56.3
3298.80	Н	-	-	-58.14	5.81	-52.33	70.8
4123.50	Н	-	-	-55.98	6.97	-49.00	67.4

Table 7-10. Radiated Spurious Data (Band 5 – Low Channel)

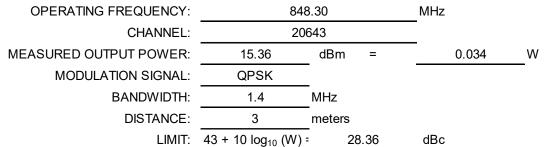
OPERATING FREQUENCY: 836.50 MHz CHANNEL: 20525 MEASURED OUTPUT POWER: 17.17 dBm 0.052 W = MODULATION SIGNAL: QPSK BANDWIDTH: 1.4 MHz DISTANCE: 3 meters LIMIT: 43 + 10 log₁₀ (W) = 30.17 dBc

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]
1673.00	Н	116	210	-56.39	3.52	-52.87	70.0
2509.50	Н	100	214	-40.33	3.59	-36.74	53.9
3346.00	Н	-	-	-57.75	5.87	-51.88	69.1
4182.50	Н	-	-	-56.07	7.16	-48.91	66.1

Table 7-11. Radiated Spurious Data (Band 5 – Mid Channel)

FCC ID: ZNFW280		FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	🕒 LG	Reviewed by: Quality Manager		
Test Report S/N:	Test Dates:	EUT Type:		Dage 24 of 20		
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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]
1696.60	Н	100	239	-55.37	3.40	-51.97	67.3
2544.90	Н	123	195	-40.38	3.74	-36.64	52.0
3393.20	Н	-	-	-57.24	5.92	-51.32	66.7
4241.50	Н	-	-	-56.96	7.29	-49.67	65.0

Table 7-12. Radiated Spurious Data (Band 5 – High Channel)

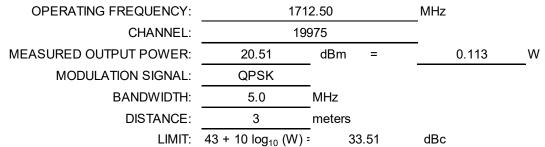
OPERATING FREQUENCY: 824.70 MHz CHANNEL: 20407 MEASURED OUTPUT POWER: 18.43 dBm 0.070 W = MODULATION SIGNAL: QPSK BANDWIDTH: 1.4 MHz DISTANCE: 3 meters LIMIT: 43 + 10 log₁₀ (W) = 31.43 dBc

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	Н	100	199	-56.81	3.64	-53.17	71.6
2474.10	Н	100	203	-41.65	3.57	-38.09	56.5
3298.80	Н	-	-	-56.61	5.81	-50.80	69.2
4123.50	Н	-	-	-56.56	6.97	-49.58	68.0

Table 7-13. Radiated Spurious Data with WCP (Band 5 – Low Channel)

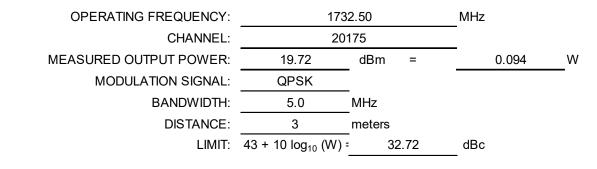
FCC ID: ZNFW280		FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	🕒 LG	Reviewed by: Quality Manager			
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Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	[dBc]
3425.00	Н	196	255	-55.78	9.87	-45.91	66.4
5137.50	Н	-	-	-56.00	10.76	-45.25	65.8
6850.00	Н	-	-	-50.22	11.67	-38.55	59.1

Table 7-14. Radiated Spurious Data (Band 4 – Low Channel)

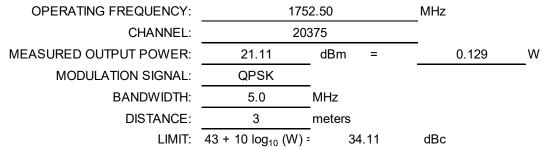


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	[dBc]
3465.00	Н	112	164	-56.36	9.91	-46.45	66.2
5197.50	Н	-	-	-55.53	10.75	-44.79	64.5
6930.00	Н	-	-	-50.04	11.76	-38.28	58.0

Table 7-15. Radiated Spurious Data (Band 4 – Mid Channel)

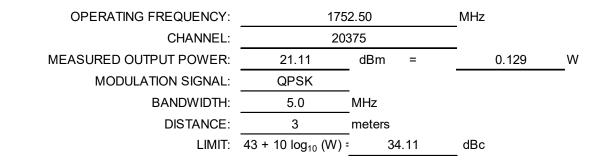
FCC ID: ZNFW280		FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	🕒 LG	Reviewed by: Quality Manager		
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Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	[dBc]
3505.00	Н	186	78	-55.56	9.95	-45.61	66.7
5257.50	Н	165	89	-54.40	10.71	-43.69	64.8
7010.00	Н	-	-	-49.76	11.83	-37.93	59.0

Table 7-16. Radiated Spurious Data (Band 4 – High Channel)

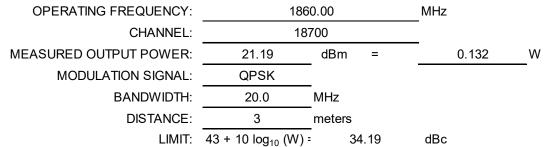


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	[dBc]
3505.00	Н	185	45	-55.03	9.91	-45.12	66.2
5257.50	Н	172	91	-53.69	10.75	-42.95	64.1
7010.00	Н	-	-	-49.30	11.76	-37.54	58.7

Table 7-17. Radiated Spurious Data with WCP (Band 4 – High Channel)

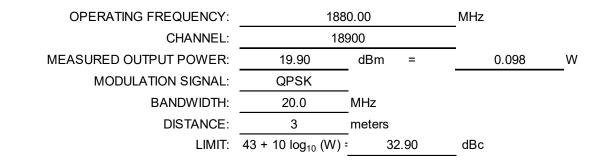
FCC ID: ZNFW280		FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	🕒 LG	Reviewed by: Quality Manager			
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Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	[dBc]
3720.00	Н	203	27	-52.83	9.52	-43.31	64.5
5580.00	Н	-	-	-55.77	11.03	-44.74	65.9
7440.00	Н	-	-	-47.68	10.95	-36.73	57.9

Table 7-18. Radiated Spurious Data (Band 2 – Low Channel)

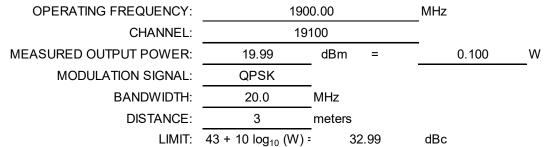


Frequency [MHz]	Ant. Pol. [H/V]	Height	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	[dBc]
3760.00	Н	212	35	-51.50	9.39	-42.12	62.0
5640.00	Н	-	-	-53.79	11.22	-42.57	62.5
7520.00	Н	-	-	-47.62	11.10	-36.52	56.4

Table 7-19. Radiated Spurious Data (Band 2 – Mid Channel)

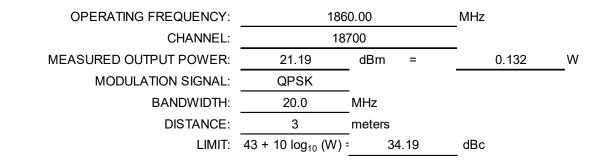
FCC ID: ZNFW280		FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	🕒 LG	Reviewed by: Quality Manager
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Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	[dBc]
3800.00	Н	135	54	-46.80	9.32	-37.48	57.5
5700.00	Н	-	-	-54.75	11.35	-43.40	63.4
7600.00	Н	-	-	-47.97	11.32	-36.65	56.6

Table 7-20. Radiated Spurious Data (Band 2 – High Channel)



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]
3720.00	Н	212	15	-52.52	9.39	-43.14	64.3
5580.00	Н	-	-	-56.54	11.22	-45.32	66.5
7440.00	Н	-	-	-48.77	11.10	-37.67	58.9

Table 7-21. Radiated Spurious Data with WCP (Band 2 – Low Channel)

FCC ID: ZNFW280		FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	🕒 LG	Reviewed by: Quality Manager		
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8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **LG Portable Wrist Device FCC ID: ZNFW280** complies with all the requirements of Parts 22, 24, & 27 of the FCC rules for LTE operation only.

FCC ID: ZNFW280		FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	🕑 LG	Reviewed by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogo 20 of 20
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