



FCC RF Test Report

APPLICANT : LG Electronics USA, Inc.
EQUIPMENT : Mobile handset
BRAND NAME : LG
MODEL NAME : LM-K200EMW
FCC ID : ZNFK200EMW
STANDARD : FCC Part 15 Subpart C §15.247
CLASSIFICATION : (DTS) Digital Transmission System

This is a data re-used report which is only valid together with the original test report. We, Sporton International (Kunshan) Inc., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International (Kunshan) Inc., the test report shall not be reproduced except in full.

Jason Jia

Reviewed by: Jason Jia / Supervisor

James Huang

Approved by: James Huang / Manager



Sporton International (Kunshan) Inc.

**No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300
People's Republic of China**



TABLE OF CONTENTS

REVISION HISTORY..... 3

1 GENERAL DESCRIPTION..... 4

 1.1 Applicant 4

 1.2 Manufacturer..... 4

 1.3 Product Feature of Equipment Under Test..... 4

 1.4 Product Specification of Equipment Under Test..... 4

 1.5 Modification of EUT 4

 1.6 Testing Location 5

 1.7 Test Software..... 5

 1.8 Re-use of Measured Data 5

2 LIST OF MEASURING EQUIPMENT..... 7

APPENDIX A. SETUP PHOTOGRAPHS

APPENDIX B. REFERENCE REPORT



1 General Description

1.1 Applicant

LG Electronics USA, Inc.

111 Sylvan Avenue, North Building Englewood Cliffs, NJ 07632, United States

1.2 Manufacturer

Huaqin Telecom Technology Co., Ltd.

No.1 Building, No.9 Building, No.399,Keyuan Road,Zhangjiang Hi-tech Park,Shanghai,P.R.China

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile handset
Brand Name	LG
Model Name	LM-K200EMW
FCC ID	ZNFK200EMW
EUT supports Radios application	GSM/WCDMA/LTE WLAN 2.4GHz 802.11b/g/n HT20/HT40 Bluetooth BR/EDR/LE GNSS
EUT Stage	Production Unit

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Frequency Range	2402 MHz ~ 2480 MHz
Number of Channels	40
Carrier Frequency of Each Channel	40 Channel(37 hopping + 3 advertising channel)
Antenna Type / Gain	PIFA Antenna type with gain -2.0 dBi
Type of Modulation	Bluetooth LE : GFSK

1.5 Modification of EUT

No modifications are made to the EUT during all test items.



1.6 Testing Location

Sporton International (Kunshan) Inc. is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International (Kunshan) Inc.		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People’s Republic of China TEL : +86-512-57900158 FAX : +86-512-57900958		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH06-KS	CN1257	314309

1.7 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH06-KS	AUDIX	E3	6.2009-8-24a1

1.8 Re-use of Measured Data

1.8.1 Introduction Section

This application re-uses data collected on a similar device. The subject device of this application (Model: LM-K200EMW, FCC ID: ZNFK200EMW) is electrically identical to the reference device (Model: LM-K200HMMW, FCC ID: ZNFK200HMMW) for the portions of the circuitry corresponding to the data being re-used, as treated by KDB Publication 484596 D01.

1.8.2 Difference Section

For details concerning the similarity with respect to component placement, mechanical/electrical design etc., please refer to the Product Equality Declaration.

The re-used RF data includes the following bands provided in Appendix B (Sporton RF Report No. FR043015B for the reference device Model: LM-K200HMMW, FCC ID: ZNFK200HMMW).



1.8.3 Reference detail Section:

Equipment Class	Reference FCC ID	Folder Test	Report Title/Section
DSS (BR/EDR)	ZNFK200HMW	Part15C(FR043015A)	All sections applicable
DTS (BLE)	ZNFK200HMW	Part15C(FR043015B)	All sections applicable
DTS (WLAN)	ZNFK200HMW	Part15C(FR043015C)	All sections applicable

1.8.4 Spot Check Verification Data Section

In order to confirm hardware similarity of the subject device with the reference device, spot check measurements were performed on the subject device for the following test items, the test result were consistent with FCC ID: ZNFK200HMW.

Assertions concerning the similarity of these devices are based on representations by the applicant. The applicant accepts full responsibility for the validity of the similarity claim, and for the determination that verification test data are sufficient to support it.

Test Item	Mode	ZNFK200HMW Worst Result	ZNFK200EMW Worst Result	Difference (dB)
Radiated Spurious Emission (dBuV/m)	BT _Tx_Ch00	55.31	54.70	-0.61
	BLE _Tx_Ch39	45.74	45.96	0.22
	11n20_Tx_Ch11	52.81	52.09	-0.72



2 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver	Keysight	N9038A	MY57290157	3Hz~8.5GHz;Max 30dBm	Jul. 18, 2019	May 29, 2020	Jul. 17, 2020	Radiation (03CH06-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150208	10Hz-44GHz	Apr. 15, 2020	May 29, 2020	Apr. 14, 2021	Radiation (03CH06-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Nov. 10, 2019	May 29, 2020	Nov. 09, 2020	Radiation (03CH06-KS)
Bilog Antenna	TeseQ	CBL6111D	49921	30MHz-1GHz	Apr. 17, 2020	May 29, 2020	Apr. 16, 2021	Radiation (03CH06-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00218652	1GHz~18GHz	Apr. 27, 2020	May 29, 2020	Apr. 26, 2021	Radiation (03CH06-KS)
SHF-EHF Horn	Com-power	AH-840	101115	18GHz~40GHz	Nov. 10, 2019	May 29, 2020	Nov. 09, 2020	Radiation (03CH06-KS)
Amplifier	SONOMA	310N	187289	9KHz ~1GHZ	Aug. 06, 2019	May 29, 2020	Aug. 05, 2020	Radiation (03CH06-KS)
Amplifier	MITEQ	EM18G40GG A	060728	18~40GHz	Jan. 08, 2020	May 29, 2020	Jan. 07, 2021	Radiation (03CH06-KS)
high gain Amplifier	MITEQ	AMF-7D-0010 1800-30-10P	2025788	1Ghz-18Ghz	Aug. 16, 2019	May 29, 2020	Aug. 15, 2020	Radiation (03CH06-KS)
Amplifier	Keysight	83017A	MY53270203	500MHz~26.5GHz	Apr. 15, 2020	May 29, 2020	Apr. 14, 2021	Radiation (03CH06-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	May 29, 2020	NCR	Radiation (03CH06-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	May 29, 2020	NCR	Radiation (03CH06-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	May 29, 2020	NCR	Radiation (03CH06-KS)

NCR: No Calibration Required



Appendix B. Reference Report

Please refer to Sporton report number FR043015B which is issued separately.