

EMI CERTIFICATION REPORT

Applicant:

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

Date of Receipt: April 28, 2015**Date of Issue: May 29, 2015****Test Report No. HCT-E-1505-F027****HCT FRN: 0005866421****FCC ID:****ZNFH736P**

Rule Part(s) / Standard(s): FCC CFR 47 PART 15 Subpart B Class B
FCC Classification: JBP (Part 15 B – Class B Computing Device Peripheral)
EUT Type: Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA
and LTE Phone with Bluetooth, Wi-Fi and NFC
Model Name: LG-H736P
Additional Model Name: LGH736P, LG-H735P, LGH735P, LG-H735MT, LGH735MT,
LG-H735AR, LGH735AR
Test Port: USB / Earphone Port
Date of Test: May 11, 2015 - May 26, 2015

The device bearing the trade name and model specified above, has been shown to comply with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.4-2003. (See Test Report if any modifications were made for compliance)

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

HCT certifies that no party to application has been denied the FCC benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C 862

Tested By**Reviewed By**

Gu-Cheol Yoon
Test Engineer
EMC Team
Certification Division



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Technical Manager
EMC Team
Certification Division

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DOCUMENT HISTORY

The revision history for this document is shown in table.

Version	Date	Description
HCT-E-1505-F027	May 29, 2015	Initial Release



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ATTACHMENT: TEST SETUP PHOTOGRAPHS



1. GENERAL INFORMATION

1.1 Description of EUT

Equipment Under Test is manufactured by **LG Electronics MobileComm U.S.A., Inc.**
Its basic purpose is used for communications.

Model	LG-H736P
FCC ID	ZNFH736P
Additional Model	LGH736P, LG-H735P, LGH735P, LG-H735MT, LGH735MT, LG-H735AR, LGH735AR
EUT Type	Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA and LTE Phone with Bluetooth, Wi-Fi and NFC
TX Frequency	824.20 MHz to 848.80 MHz (GSM 850) 1 850.20 MHz to 1 909.80 MHz (GSM 1 900) 826.40 MHz to 846.60 MHz (WCDMA 850) 1 852.4 MHz to 1 907.6 MHz (WCDMA 1 900) 1 850 MHz to 1 910 MHz (LTE B2) 1 710 MHz to 1 755 MHz (LTE B4) 2 496 MHz to 2570 MHz (LTE B7) 704 MHz to 716 MHz (LTE B17)
RX Frequency	869.20 MHz to 893.80 MHz (GSM 850) 1 930.20 MHz to 1 989.80 MHz (GSM 1 900) 871.40 MHz to 891.60 MHz (WCDMA 850) 1 932.4 MHz to 1 987.6 MHz (WCDMA 1 900) 1 930 MHz to 1 990 MHz (LTE B2) 2 110 MHz to 2 155 MHz (LTE B4) 2 516 MHz to 2690 MHz (LTE B7) 734 MHz to 746 MHz (LTE B17)

1.2 Related Submittal(s) / Grant(s)

Original submittal only.



1.3 Test Facility

Test site is located at 74, SEOICHEON-RO, 578BEON-GIL, MAJANG-MYEON, ICHEON-SI, GYEONGGI-DO, SOUTH KOREA. Those measurement facilities are constructed in conformance with the requirements of ANSI C63.4-2003.

Measurement Facilities	Reg. No.
Radiated Field strength measurement facility (3 m)	90661 (February 28, 2014)
Radiated Field strength measurement facility (10 m)	90661 (February 28, 2014)



1.4 Tested System Details

All equipment descriptions used in the tested system (including inserted cards) are:

Device Type	Model Name	Manufacturer	FCC ID / DoC	Connected To
EUT	LG-H736P	LG	ZNFH736P	Notebook PC, Earphone
USB cable	EAD62377902	Ningbo broad	-	EUT, Notebook PC
Earphone	EAB62209201	I-SOUND	-	EUT
Standard cover	-	-	-	EUT
Quick cover	CFV-110	Young Kwang	-	EUT
Notebook PC	ProBook6560b	HP	DoC	EUT, Notebook PC adaptor
Notebook PC adaptor	PPP009D	DELTA Electronics (Jiangsu) LTD	-	Notebook PC
Gateway	MV440	Axesstel	PH7MV440	Notebook PC, Adaptor
Serial mouse	Serial 2 button mouse	Radio shack	FSUGMZE3	Notebook PC
Adaptor	DA-60M12	Yang Ming Industrial	-	Gateway
RJ45 cable	-	-	-	Notebook PC, Gateway
Micro SD card	16 GB	Samsung	-	EUT



1.5 Cable Description

Product Name	Port	Power Cord Shielded (Y/N)	I/O Cable Shielded (Y/N)	Length (m)
EUT	Micro USB	Y	Y	(P,D)1.0
	Earphone	N/A	Y	(D)1.2
Notebook PC	RJ 45	N/A	N	(D)1.5
	Serial (Mouse)	N/A	Y	(D)1.8
	DC in	N	N/A	(P)1.8
Gateway	DC in	N	N/A	(P)1.8

* The marked "(D)" means the data cable and "(P)" means the power cable.

1.6 Noise Suppression Parts on Cable. (I/O Cable)

Product Name	Port	Ferrite Bead (Y/N)	Location	Metal Hood (Y/N)	Location
EUT	Micro USB	N	N/A	Y	Both End
	Earphone	N	N/A	Y	EUT End
Notebook PC	RJ 45	N	N/A	N	N/A
	Serial (Mouse)	N	N/A	Y	Notebook PC End



2. DESCRIPTION OF TEST

2.1 Measurement of Conducted Emission

The test procedure was in accordance with ANSI C63.4-2003, Clause 7

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN).
If the EUT is connected to the PC through USB, the AC power-line adapter of the PC is directly connected to a line impedance stabilization network (LISN).
Other support units were connected to the power mains through another LISN. The two LISNs provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both conducted lines are measured in Quasi-Peak and Average mode, including the worst-case data points for each tested configuration.
- c. The frequency range from 150 kHz to 30 MHz was searched.

[Conducted Emission Limits]

Frequency (MHz)	Resolution Bandwidth (kHz)	Quasi-Peak (dB μ V)	Average (dB μ V)
0.15 to 0.5	9	66 to 56*	56 to 46*
0.5 to 5	9	56	46
5 to 30	9	60	50

**Decreases with the logarithm of the frequency.*



2.2 Measurement of Radiated Emission

The test procedure was in accordance with ANSI C63.4-2003, Clause 8

- a. The EUT was placed on the top of a turn table 0.8 meters above the ground at a semi anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 m away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from 1 m to 4 m above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 m to 4 m and the turn table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to Peak and Average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.
- g. The antenna height scans apply for both horizontal and vertical polarizations, except that for vertical polarization, the minimum height of the center of the antenna shall be increased so that the lowest point of the bottom of the lowest antenna element clears the site reference ground plane by at least 25 cm. (below 1 GHz)

[Radiated Emission Limits]

Frequency (MHz)	Antenna Distance (m)	Field Strength ($\mu\text{V/m}$)	Quasi-Peak (dB $\mu\text{V/m}$)
30 to 88	3	100	40.0
88 to 216	3	150	43.5
216 to 960	3	200	46.0
Above 960	3	500	54.0
Frequency (MHz)	Antenna Distance (m)	Peak (dB $\mu\text{V/m}$)	Average (dB $\mu\text{V/m}$)
Above 1 000	3	74	54

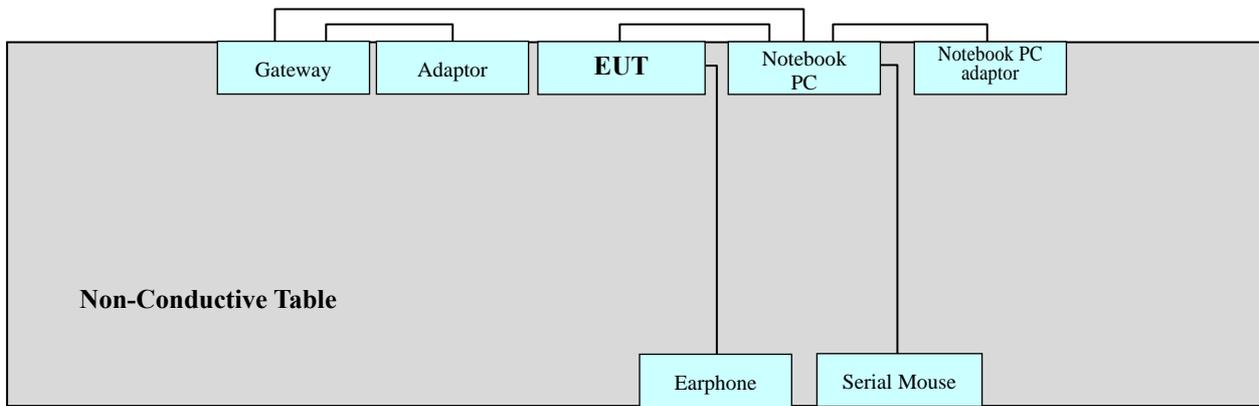


2.2.1 Frequency Range of Radiated Measurements

An unintentional radiator, including a digital device, the spectrum shall be investigated from the lowest radio frequency signal generated or used in the device, without going below the lowest frequency for which a Radiated Emission limit is specified, up to the frequency shown in the following table

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705 to 108	1 000
108 to 500	2 000
500 to 1 000	5 000
Above 1 000	5 th harmonic of the highest frequency or 40 GHz, whichever is lower

2.3 Configuration of Tested System



Power Line: 120 VAC, 60 Hz



3. PRELIMINARY TEST

3.1 Conducted Emission Test

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

Operation Mode: Data Communication mode

3.2 Radiated Emission Test

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

Operation Mode: Data Communication mode



4. CONDUCTED AND RADIATED EMISSION TEST SUMMARY

4.1 Conducted Emission Test

The test results of conducted emission at mains ports provide the following information:

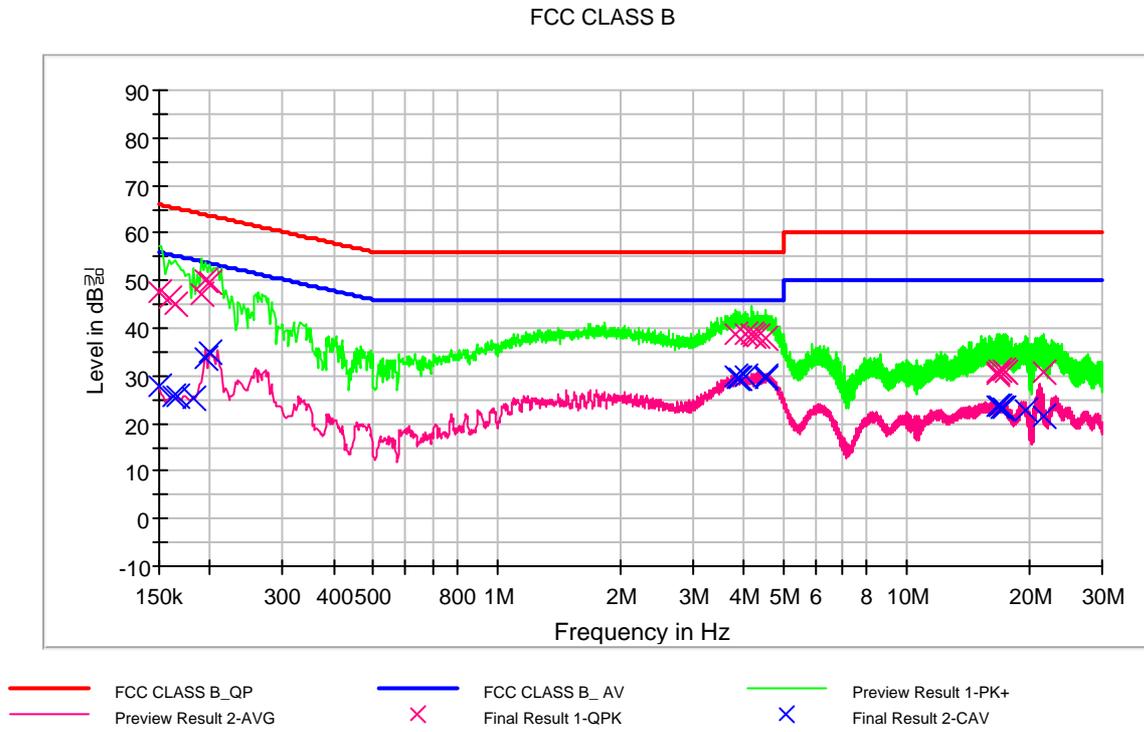
Rule Part / Standard	FCC PART 15 Subpart B Class B
Detector	Quasi-Peak, CISPR-Average
Bandwidth	9 kHz (6 dB)
Operation Mode	Data Communication mode
EUT Cover Type	Standard Cover
Kind of Test Site	Shielded Room
Temperature	22.7 °C
Relative Humidity	43.1 %
Test Date	May 12, 2015

- Calculation Formula:

1. Conductor L1 = Hot, Conductor N = Neutral
2. Corr. = LISN Factor + Cable Loss
3. QuasiPeak or CAverage= Receiver Reading + Corr.
4. Margin = Limit – QuasiPeak or CAverage



Figure 1: Spectral Diagrams, Conducted Emission, AC Main Port, Line (L1)





QuasiPeak Final Result, Line (L1)

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	47.5	9.000	L1	9.6	18.5	66.0
0.158000	46.3	9.000	L1	9.6	19.3	65.6
0.164000	45.2	9.000	L1	9.6	20.1	65.3
0.190000	47.1	9.000	L1	9.6	16.9	64.0
0.194000	50.2	9.000	L1	9.6	13.7	63.9
0.200000	49.8	9.000	L1	9.7	13.8	63.6
3.822000	38.8	9.000	L1	9.9	17.2	56.0
4.038000	38.8	9.000	L1	9.9	17.2	56.0
4.176000	38.7	9.000	L1	9.9	17.3	56.0
4.232000	38.5	9.000	L1	9.9	17.5	56.0
4.318000	38.3	9.000	L1	9.9	17.7	56.0
4.530000	38.1	9.000	L1	9.9	17.9	56.0
16.558000	30.9	9.000	L1	10.2	29.1	60.0
16.562000	30.3	9.000	L1	10.2	29.7	60.0
16.840000	31.0	9.000	L1	10.2	29.0	60.0
17.264000	31.3	9.000	L1	10.2	28.7	60.0
17.436000	30.6	9.000	L1	10.3	29.4	60.0
21.512000	30.6	9.000	L1	10.3	29.4	60.0

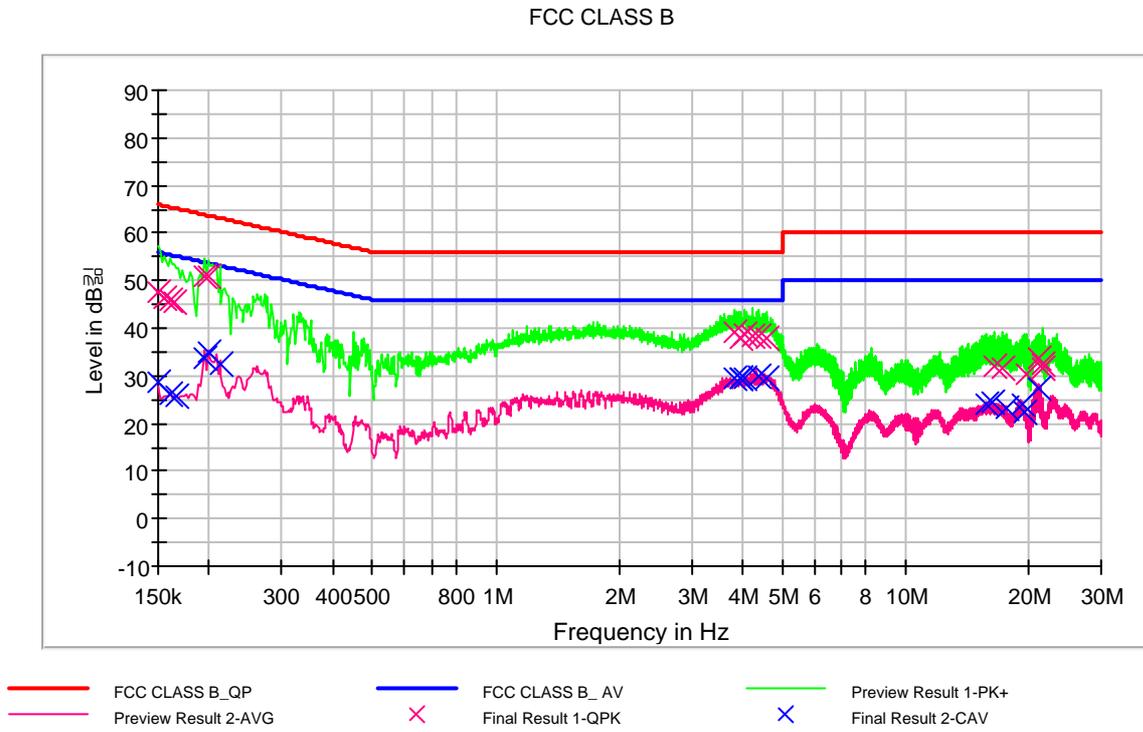


CAverage Final Result, Line (L1)

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	28.0	9.000	L1	9.6	28.0	56.0
0.162000	25.6	9.000	L1	9.6	29.8	55.4
0.166000	25.5	9.000	L1	9.6	29.7	55.2
0.182000	25.4	9.000	L1	9.6	29.0	54.4
0.194000	33.6	9.000	L1	9.6	20.3	53.9
0.198000	34.8	9.000	L1	9.6	18.9	53.7
3.820000	29.7	9.000	L1	9.9	16.3	46.0
3.858000	29.7	9.000	L1	9.9	16.3	46.0
3.920000	29.5	9.000	L1	9.9	16.5	46.0
4.038000	29.8	9.000	L1	9.9	16.2	46.0
4.526000	30.0	9.000	L1	9.9	16.0	46.0
4.536000	29.4	9.000	L1	9.9	16.6	46.0
16.562000	23.6	9.000	L1	10.2	26.4	50.0
16.840000	23.7	9.000	L1	10.2	26.3	50.0
17.122000	23.2	9.000	L1	10.2	26.8	50.0
17.264000	23.2	9.000	L1	10.2	26.8	50.0
19.528000	22.7	9.000	L1	10.3	27.3	50.0
21.512000	21.7	9.000	L1	10.3	28.3	50.0



Figure 2: Spectral Diagrams, Conducted Emission, AC Main Port, Line (N)





QuasiPeak Final Result, Line (N)

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	47.6	9.000	N	9.6	18.4	66.0
0.156000	46.5	9.000	N	9.6	19.2	65.7
0.160000	45.9	9.000	N	9.6	19.6	65.5
0.164000	45.4	9.000	N	9.6	19.9	65.3
0.194000	51.0	9.000	N	9.6	12.9	63.9
0.198000	50.8	9.000	N	9.6	12.9	63.7
3.818000	39.1	9.000	N	9.8	16.9	56.0
3.948000	38.1	9.000	N	9.8	17.9	56.0
4.030000	38.8	9.000	N	9.8	17.2	56.0
4.244000	38.5	9.000	N	9.8	17.5	56.0
4.386000	38.3	9.000	N	9.9	17.7	56.0
4.598000	37.8	9.000	N	9.9	18.2	56.0
16.550000	31.9	9.000	N	10.2	28.1	60.0
17.188000	31.5	9.000	N	10.2	28.5	60.0
19.802000	30.3	9.000	N	10.3	29.7	60.0
21.216000	33.6	9.000	N	10.3	26.4	60.0
21.486000	31.8	9.000	N	10.3	28.2	60.0
21.498000	32.6	9.000	N	10.3	27.4	60.0



CAverage Final Result, Line (N)

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	28.7	9.000	N	9.6	27.3	56.0
0.160000	26.1	9.000	N	9.6	29.4	55.5
0.166000	25.8	9.000	N	9.6	29.4	55.2
0.194000	33.8	9.000	N	9.6	20.1	53.9
0.198000	34.8	9.000	N	9.6	18.9	53.7
0.212000	32.6	9.000	N	9.6	20.5	53.1
3.818000	29.4	9.000	N	9.8	16.6	46.0
3.948000	29.3	9.000	N	9.8	16.7	46.0
3.976000	29.4	9.000	N	9.8	16.6	46.0
4.030000	29.5	9.000	N	9.8	16.5	46.0
4.386000	30.0	9.000	N	9.9	16.0	46.0
4.598000	29.7	9.000	N	9.9	16.3	46.0
15.774000	24.0	9.000	N	10.2	26.0	50.0
16.194000	24.3	9.000	N	10.2	25.7	50.0
17.540000	23.1	9.000	N	10.2	26.9	50.0
19.238000	23.9	9.000	N	10.3	26.1	50.0
19.526000	22.4	9.000	N	10.3	27.6	50.0
21.216000	27.4	9.000	N	10.3	22.6	50.0



The test results of conducted emission at mains ports provide the following information:

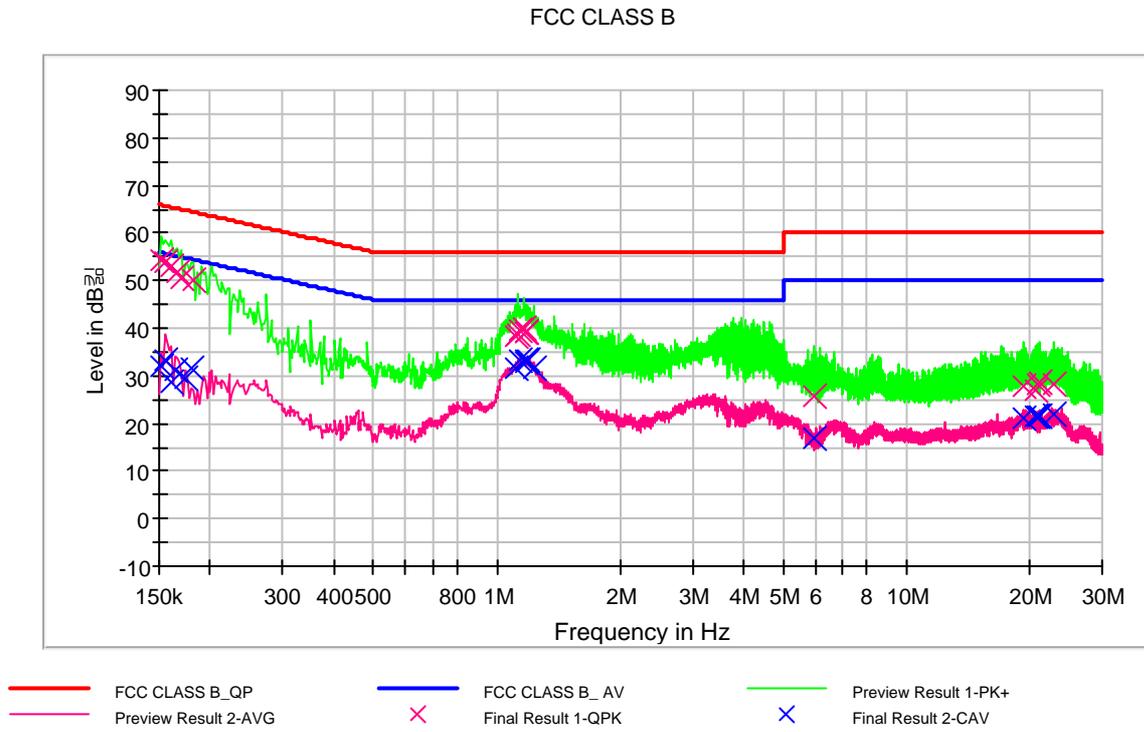
Rule Part / Standard	FCC PART 15 Subpart B Class B
Detector	Quasi-Peak, CISPR-Average
Bandwidth	9 kHz (6 dB)
Operation Mode	Data Communication mode
EUT Cover Type	Quick Cover
Kind of Test Site	Shielded Room
Temperature	24.3 °C
Relative Humidity	43.8 %
Test Date	May 19, 2015

- Calculation Formula:

1. Conductor L1 = Hot, Conductor N = Neutral
2. Corr. = LISN Factor + Cable Loss
3. QuasiPeak or CAverage= Receiver Reading + Corr.
4. Margin = Limit – QuasiPeak or CAverage



Figure 3: Spectral Diagrams, Conducted Emission, AC Main Port, Line (L1)





QuasiPeak Final Result, Line (L1)

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.152000	54.2	9.000	L1	9.6	11.7	65.9
0.156000	53.7	9.000	L1	9.6	12.0	65.7
0.160000	53.1	9.000	L1	9.6	12.4	65.5
0.166000	51.6	9.000	L1	9.6	13.6	65.2
0.170000	50.4	9.000	L1	9.6	14.6	65.0
0.182000	50.2	9.000	L1	9.6	14.2	64.4
1.108000	38.2	9.000	L1	9.7	17.8	56.0
1.124000	38.7	9.000	L1	9.7	17.3	56.0
1.142000	39.7	9.000	L1	9.7	16.3	56.0
1.166000	39.8	9.000	L1	9.7	16.2	56.0
1.178000	39.4	9.000	L1	9.7	16.6	56.0
1.184000	39.2	9.000	L1	9.7	16.8	56.0
5.942000	25.8	9.000	L1	9.9	34.2	60.0
19.248000	27.9	9.000	L1	10.3	32.1	60.0
20.728000	27.1	9.000	L1	10.3	32.9	60.0
20.902000	28.3	9.000	L1	10.3	31.7	60.0
21.016000	28.5	9.000	L1	10.3	31.5	60.0
22.782000	28.3	9.000	L1	10.4	31.7	60.0

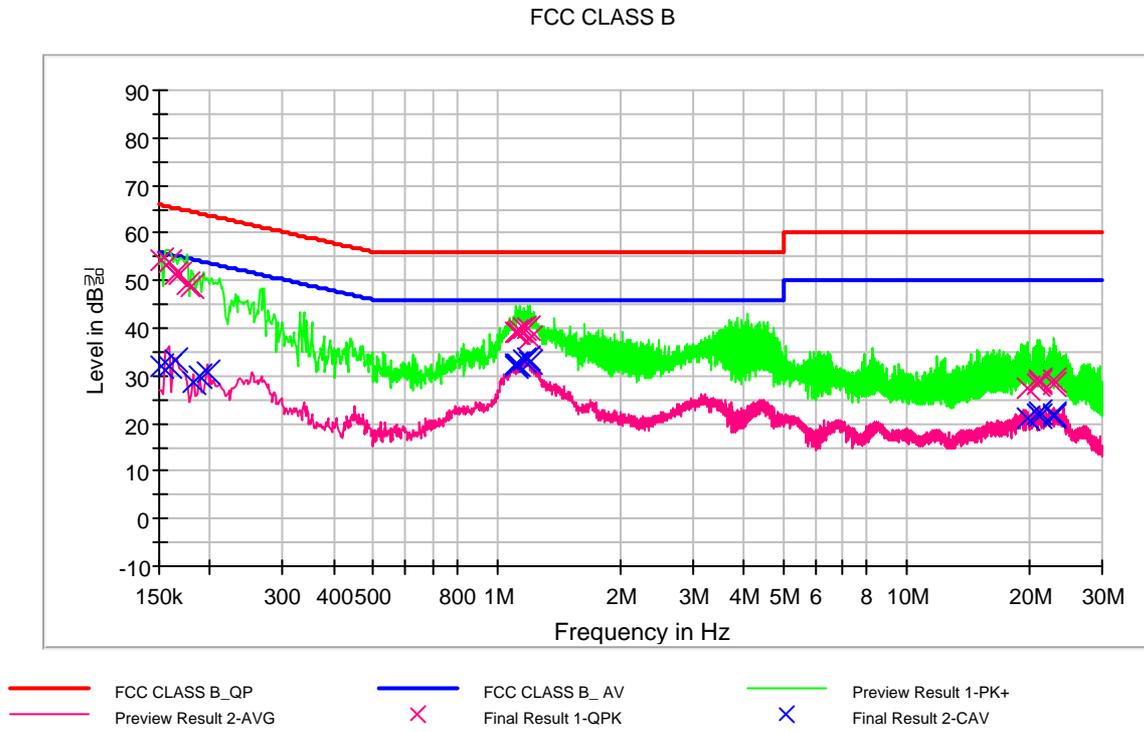


CAverage Final Result, Line (L1)

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.152000	32.0	9.000	L1	9.6	23.9	55.9
0.156000	33.4	9.000	L1	9.6	22.3	55.7
0.160000	28.9	9.000	L1	9.6	26.6	55.5
0.164000	31.3	9.000	L1	9.6	24.0	55.3
0.174000	29.3	9.000	L1	9.6	25.5	54.8
0.180000	31.5	9.000	L1	9.6	23.0	54.5
1.108000	31.6	9.000	L1	9.7	14.4	46.0
1.142000	33.1	9.000	L1	9.7	12.9	46.0
1.178000	33.3	9.000	L1	9.7	12.7	46.0
1.182000	33.0	9.000	L1	9.7	13.0	46.0
1.186000	33.4	9.000	L1	9.7	12.6	46.0
1.230000	31.7	9.000	L1	9.7	14.3	46.0
5.942000	16.7	9.000	L1	9.9	33.3	50.0
19.248000	21.1	9.000	L1	10.3	28.9	50.0
20.728000	21.3	9.000	L1	10.3	28.7	50.0
20.902000	21.5	9.000	L1	10.3	28.5	50.0
21.016000	21.6	9.000	L1	10.3	28.4	50.0
22.782000	21.9	9.000	L1	10.4	28.1	50.0



Figure 4: Spectral Diagrams, Conducted Emission, AC Main Port, Line (N)





QuasiPeak Final Result, Line (N)

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.152000	54.1	9.000	N	9.6	11.8	65.9
0.158000	53.8	9.000	N	9.6	11.8	65.6
0.164000	51.2	9.000	N	9.6	14.1	65.3
0.168000	51.1	9.000	N	9.6	14.0	65.1
0.176000	49.1	9.000	N	9.6	15.6	64.7
0.180000	48.6	9.000	N	9.6	15.9	64.5
1.114000	39.0	9.000	N	9.7	17.0	56.0
1.130000	39.2	9.000	N	9.7	16.8	56.0
1.142000	39.7	9.000	N	9.7	16.3	56.0
1.162000	39.9	9.000	N	9.7	16.1	56.0
1.188000	40.1	9.000	N	9.7	15.9	56.0
1.208000	38.1	9.000	N	9.7	17.9	56.0
19.670000	27.6	9.000	N	10.3	32.4	60.0
20.800000	28.4	9.000	N	10.3	31.6	60.0
21.018000	28.5	9.000	N	10.3	31.5	60.0
21.158000	29.0	9.000	N	10.3	31.0	60.0
22.780000	28.9	9.000	N	10.4	31.1	60.0
22.850000	28.3	9.000	N	10.4	31.7	60.0



CAverage Final Result, Line (N)

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.152000	31.9	9.000	N	9.6	24.0	55.9
0.158000	32.1	9.000	N	9.6	23.5	55.6
0.164000	33.2	9.000	N	9.6	22.1	55.3
0.182000	28.8	9.000	N	9.6	25.6	54.4
0.188000	30.0	9.000	N	9.6	24.1	54.1
0.196000	30.9	9.000	N	9.6	22.9	53.8
1.114000	32.1	9.000	N	9.7	13.9	46.0
1.118000	32.3	9.000	N	9.7	13.7	46.0
1.130000	32.4	9.000	N	9.7	13.6	46.0
1.162000	33.3	9.000	N	9.7	12.7	46.0
1.188000	33.6	9.000	N	9.7	12.4	46.0
1.198000	33.0	9.000	N	9.7	13.0	46.0
19.814000	21.1	9.000	N	10.3	28.9	50.0
20.800000	21.9	9.000	N	10.3	28.1	50.0
21.018000	21.7	9.000	N	10.3	28.3	50.0
21.158000	22.2	9.000	N	10.3	27.8	50.0
22.780000	22.0	9.000	N	10.4	28.0	50.0
22.850000	21.7	9.000	N	10.4	28.3	50.0



4.2 Radiated Emission Test

The test results of radiated emission provide the following information:

-For Measurement Below 1 GHz

Rule Part / Standard	FCC PART 15 Subpart B Class B
Detector	Quasi-Peak
Bandwidth	120 kHz (6 dB)
Operation Mode	Data Communication mode
EUT Cover Type	Standard Cover
Kind of Test Site	3 m semi anechoic chamber
Temperature	22.3 °C
Relative Humidity	40.1 %
Test Date	May 11, 2015

Frequency (MHz)	Quasi Peak (dBuV/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBuV/m)
33.927776	25.2	127.0	V	301.0	14.9	14.8	40.0
59.958317	22.0	134.0	V	32.0	15.5	18.0	40.0
84.508858	25.5	265.0	H	242.0	11.7	14.5	40.0
133.306052	30.1	100.0	V	86.0	16.4	13.4	43.5
265.570421	35.0	116.0	H	295.0	16.8	11.0	46.0

- Calculation Formula:

1. POL. H = Horizontal, POL. V = Vertical
2. QuasiPeak = Reading (Receiver Reading) + Corr.
3. Corr. (Correction Factor) = Antenna Factor + Cable Loss
4. Margin = Limit - QuasiPeak



Rule Part / Standard	FCC PART 15 Subpart B Class B
Detector	Quasi-Peak
Bandwidth	120 kHz (6 dB)
Operation Mode	Data Communication mode
EUT Cover Type	Quick Cover
Kind of Test Site	3 m semi anechoic chamber
Temperature	24.9 °C
Relative Humidity	42.3 %
Test Date	May 26, 2015

Frequency (MHz)	Quasi Peak (dBuV/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
34.847776	25.3	100.0	V	227.0	15.0	14.7	40.0
84.748858	26.4	350.0	H	247.0	11.6	13.6	40.0
265.570421	36.2	115.0	H	300.0	16.8	9.8	46.0



-For Measurement Above 1 GHz

Rule Part / Standard	FCC PART 15 Subpart B Class B
Detector	Peak mode: Peak (RBW: 1 MHz, VBW: 3 MHz) CISPR-Average mode: Peak (RBW: 1 MHz, VBW: 10 Hz)
Highest Operating Frequency	1.5 GHz
Testing Frequency Range	1 GHz to 7.5 GHz
Operation Mode	Data Communication mode
EUT Cover Type	Standard Cover
Kind of Test Site	3 m semi anechoic chamber
Temperature	22.3 °C
Relative Humidity	40.1 %
Test Date	May 11, 2015

Frequency (MHz)	Peak (dBuV/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
1332.915832	50.4	150.0	V	28.0	-9.3	23.6	74.0
1993.837675	52.1	100.0	V	14.0	-7.8	21.9	74.0

Frequency (MHz)	CAverage (dBuV/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
1332.915832	26.2	150.0	V	28.0	-9.3	27.8	54.0
1993.837675	28.6	100.0	V	14.0	-7.8	25.4	54.0

- Calculation Formula:

1. POL. H = Horizontal, POL. V = Vertical
2. Peak or CAverage = Reading (Receiver Reading) + Corr.
3. Corr. (Correction Factor) = Antenna Factor+ Cable Loss –Amplifier Gain
4. Margin = Limit - Peak or CAverage



Rule Part / Standard	FCC PART 15 Subpart B Class B
Detector	Peak mode: Peak (RBW: 1 MHz, VBW: 3 MHz) CISPR-Average mode: Peak (RBW: 1 MHz, VBW: 10 Hz)
Highest Operating Frequency	1.5 GHz
Testing Frequency Range	1 GHz to 7.5 GHz
Operation Mode	Data Communication mode
EUT Cover Type	Quick Cover
Kind of Test Site	3 m semi anechoic chamber
Temperature	22.5 °C
Relative Humidity	42.7 %
Test Date	May 19, 2015

Frequency (MHz)	Peak (dBuV/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
1327.705411	52.1	100.0	V	27.0	-9.3	21.9	74.0
1998.647294	56.2	100.0	V	27.0	-7.8	17.8	74.0

Frequency (MHz)	CAverage (dBuV/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
1327.705411	26.5	100.0	V	27.0	-9.3	27.5	54.0
1998.647294	29.3	100.0	V	27.0	-7.8	24.7	54.0



5. LIST OF TEST EQUIPMENT

<u>Type</u>	<u>Manufacturer</u>	<u>Model Name</u>	<u>Serial Number</u>	<u>Calibration Cycle</u>	<u>CAL Date</u>
<u>Conducted Emission</u>					
<input checked="" type="checkbox"/> EMI Test Receiver	Rohde & Schwarz	ESCI	100584	1 year	01.13.2015
<input checked="" type="checkbox"/> LISN	Rohde & Schwarz	ESH3-Z5	100282	1 year	06.10.2014
<input checked="" type="checkbox"/> LISN	Rohde & Schwarz	ENV216	100073	1 year	01.13.2015
<input checked="" type="checkbox"/> Software	Rohde & Schwarz	EMC32	-	-	-
<u>Radiated Emission</u>					
-For measurement below 1 GHz					
<input checked="" type="checkbox"/> EMI Test Receiver	Rohde & Schwarz	ESI40	831564103	1 year	04.01.2015
<input checked="" type="checkbox"/> Trilog Antenna	Schwarzbeck	VULB9160	3301	2 year	11.17.2014
<input checked="" type="checkbox"/> Antenna master	HD GmbH	MA240	240/520	N/A	-
<input checked="" type="checkbox"/> Antenna master controller	HD GmbH	HD 100	100/637	N/A	-
<input checked="" type="checkbox"/> Turn Table	EMCO	1060-2M	-	N/A	-
<input checked="" type="checkbox"/> Turn Table controller	EMCO	2090	9702-1224	N/A	-
<input type="checkbox"/> EMI Test Receiver	Rohde & Schwarz	ESU 26	100241	1 year	06.18.2014
<input type="checkbox"/> Antenna master	INNCO Systems	MA4000-EP	MA4000/283	N/A	-
<input type="checkbox"/> Turn Table	INNCO Systems	DT3000-3T	DT3000/69	N/A	-
<input checked="" type="checkbox"/> Software	Rohde & Schwarz	EMC32	-	-	-
-For measurement above 1 GHz					
<input checked="" type="checkbox"/> EMI Test Receiver	Rohde & Schwarz	ESI40	831564103	1 year	04.01.2015
<input checked="" type="checkbox"/> Antenna master	HD GmbH	MA240	240/520	N/A	-
<input checked="" type="checkbox"/> Antenna master controller	HD GmbH	HD 100	100/637	N/A	-
<input checked="" type="checkbox"/> Turn Table	EMCO	1060-2M	-	N/A	-
<input checked="" type="checkbox"/> Turn Table controller	EMCO	2090	9702-1224	N/A	-
<input type="checkbox"/> Power Amplifier	CERNEX	CBLU1183540	21691	1 year	07.11.2014
<input checked="" type="checkbox"/> Power Amplifier	CERNEX	CBLU5183530	24348	1 year	06.11.2014
<input checked="" type="checkbox"/> Horn Antenna	Schwarzbeck	BBHA 9120D	296	2 year	10.07.2014
<input type="checkbox"/> Horn Antenna	Schwarzbeck	BBHA 9120D	1151	2 year	07.05.2013
<input type="checkbox"/> EMI Test Receiver	Rohde & Schwarz	ESU 26	100241	1 year	06.18.2014
<input type="checkbox"/> Turn Table	INNCO Systems	DT3000-3T	DT3000/69	N/A	-
<input type="checkbox"/> Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170124	2 year	10.30.2013
<input type="checkbox"/> Power Amplifier	CERNEX	CBL18265035	22966	1 year	07.23.2014
<input checked="" type="checkbox"/> Software	Rohde & Schwarz	EMC32	-	-	-



6. CONCLUSION

The data collected shows that the **EUT Type: Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA and LTE Phone with Bluetooth, Wi-Fi and NFC, FCC ID: ZNFH736P, Model: LG-H736P** complies with §15.107 and §15.109 of the FCC rules.