

EMI CERTIFICATION REPORT

Applicant:

LG Electronics MobileComm U.S.A., Inc.

1000 Sylvan Avenue, Englewood Cliffs NJ 07632

Date of Issue: July 08, 2013

Test Report No.: HCTE1307FE10

Test Site: HCT CO., LTD.

HCT FRN: 0005-8664-21

FCC ID:

ZNFD800

Rule Part(s) / Standard(s) : FCC PART 15 Subpart B Class B

Equipment Type : Multi-Band GSM/EDGE/WCDMA/LTE phone with WLAN, Bluetooth and NFC

Model Name : LG-D800

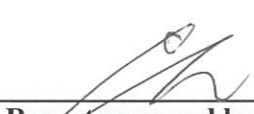
Port / Connector(s) : USB / Earphone Port

Date of Test : July 04, 2013 – July 08, 2013

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


Report prepared by
: Gu-Cheol Yoon
Test Engineer of EMC Team


Approved by
: Sang-Jun Lee
Manager of EMC Team

DOCUMENT HISTORY

The revision history for this document is shown in table.

Version	Date	Description
HCTE1307FE10	July 08, 2013	Initial Release

TABLE OF CONTENTS

	PAGE
1. GENERAL INFORMATION	4
1.1 Product Description.....	4
1.2 Related Submittal(s) / Grant(s).....	4
1.3 Tested System Details.....	5
1.4 Cable Description	6
1.5 Noise Suppression Parts on Cable. (I/O cable)	6
1.6 Test Methodology	7
1.7 Test Facility	7
1.8 Frequency Range of Radiated Measurements	7
2. SYSTEM TEST CONFIGURATION.....	8
2.1 Configuration of Test System	8
3. PRELIMINARY TEST	9
3.1 Conducted Emission Test	9
3. 2 Radiated Emission Test	9
4. CONDUCTED AND RADIATED EMISSION TEST SUMMARY	10
4.1 Conducted Emission Test	10
4.2 Radiated Emission Test	15
5. FIELD STRENGTH CALCULATION	24
6. TEST EQUIPMENT	25
7. CONCLUSION	26

ATTACHMENT: TEST SETUP PHOTOGRAPHS

1. GENERAL INFORMATION

1.1 Product Description

Equipment Under Test is **EUT type: Multi-Band GSM/EDGE/WCDMA/LTE phone with WLAN, Bluetooth and NFC, Model: LG-D800** manufactured by **LG Electronics MobileComm U.S.A., Inc.** Its basic purpose is used for communications.

Model	LG-D800
FCC ID	ZNFD800
EUT Type	Multi-Band GSM/EDGE/WCDMA/LTE phone with WLAN, Bluetooth 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) 824 MHz to 849 MHz (LTE B5) 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) 869 MHz to 894 MHz (LTE B5) 2 110 MHz to 2 155 MHz (LTE B4) 734 MHz to 746 MHz (LTE B17)

1.2 Related Submittal(s) / Grant(s)

Original submittal only.

1.3 Tested System Details

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

Device Type	Manufacturer	Model Name	FCC ID / DoC	Connected To
EUT	LG	LG-D800	ZNFD800	Notebook PC Ear-phone
USB cable (2.0)	INTERFACESAMIL	EAD62329301	-	E.U.T Notebook PC
USB cable (3.0)	Ningbo	LG0107	-	E.U.T Notebook PC
Ear-phone	I-SOUND	EAB62729016	-	E.U.T
Notebook PC	HP	ProBook6570b	DoC	Notebook PC adaptor
Notebook PC adaptor	DELTA Electronics (JIANGSU)LTD.	PPP012D-S	-	Notebook PC
Mouse	Radio shack	Serial mouse	FSUGMZE3	Notebook PC
Gateway	Axesstel	MV440R	-	Notebook PC, Adaptor
Adaptor	Yang Ming Industrial	DA-60M12	-	Gateway
RJ45 cable	-	-	-	Notebook PC, Gateway

1.4 Cable Description

Product Name	Port	Power Cord Shielded (Y/N)	I/O Cable Shielded (Y/N)	Length (m)
EUT	Micro USB (USB 2.0)	Y	Y	(P,D)1.1
	Ear-phone	N/A	Y	(D)1.2
	Micro USB (USB 3.0)	Y	Y	(P,D)0.1
Notebook PC	RJ 45	N/A	N	(D)2.0
	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.

1.5 Noise Suppression Parts on Cable. (I/O cable)

Product Name	Port	Ferrite Bead (Y/N)	Location	Metal Hood (Y/N)	Location
EUT	Micro USB (USB 2.0)	N	N/A	Y	Both End
	Ear-phone	N	N/A	Y	EUT End
	Micro USB (USB 3.0)	N	N/A	Y	Both End
Notebook PC	RJ 45	N	N/A	N	N/A
	Serial (Mouse)	N	N/A	Y	Notebook PC End

1.6 Test Methodology

Both Conducted and Radiated testing was performed according to the procedures in ANSI C63.4/2003. Radiated testing was performed at an antenna to EUT distance of 3 m

1.7 Test Facility

Chamber used to collect the test data is located at the 74, SEOICHEON-RO, 578BEON-GIL, MAJANG-MYEON, ICHEON-SI, GYEONGGI-DO, KOREA. Those measurement facilities are constructed in conformance with the requirements of ANSI C63.4.

Measurement Facilities	Reg. No.
Radiated Field strength measurement facility (3m)	90661(Mar. 02, 2011)
Radiated Field strength measurement facility (10m)	90661 (Sep. 03, 2010)

1.8 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. SYSTEM TEST CONFIGURATION

2.1 Configuration of Test System

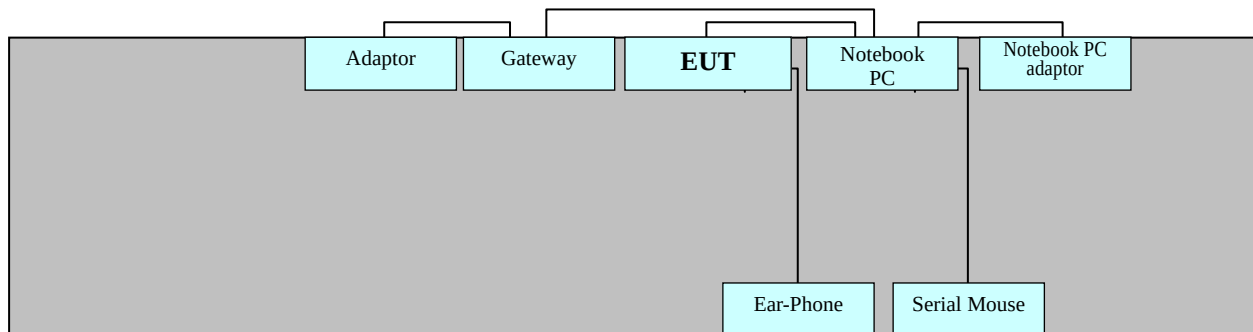
2.1.1 Conducted Emission Test

EUT was connected to LISN via Notebook PC adaptor and Base Station. Preliminary Power Line Conducted Emission tests were performed by using the procedure in ANSI C63.4/2003 7.2.3 to determine the worst operating conditions.

2.1.2 Radiated Emission Test

Preliminary Radiated Emission tests were performed by using the procedure in ANSI C63.4/2003 8.3.1.1 to determine the worst operating condition. Final Radiated Emission tests were performed at 3 m semi-anechoic chamber.

[Configuration of Tested System]



Non-Conductive Table
Power Line: 120 VAC

3. PRELIMINARY TEST

3.1 Conducted Emission Test

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

Operation Mode: ☒ Data Communication mode (Type: USB 2.0)
 ☒ Data Communication mode (Type: USB 3.0)

3. 2 Radiated Emission Test

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

Operation Mode: ☒ Data Communication mode (Type: USB 2.0)
 ☒ Data Communication mode (Type: USB 3.0)

4. CONDUCTED AND RADIATED EMISSION TEST SUMMARY

4.1 Conducted Emission Test

The following table shows the highest levels of conducted emissions on both polarization of hot and neutral line.

[Type: USB 2.0]

Limit Apply to : FCC PART 15 Subpart B Class B

Detector : Quasi-Peak, Average (6 dB Bandwidth: 9 kHz)

Operation Mode : Data Communication mode

Temperature : 23.1 °C

Humidity Level : 59.1 %

Test Date : July 08, 2013

Frequency	Transd	Conductor	Quasi-Peak			Average		
			Limit	Measurement Level	Result Level	Limit	Measurement Level	Result Level
(MHz)	(dB)		(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dBuV)
0.150	10.0	N	66	38.8	48.8	56	-	-
0.154	9.8	H	66	38.8	48.6	56	-	-
0.158	10.0	N	66	38.2	48.2	56	-	-
0.470	9.8	H	57	30.0	39.8	47	-	-
1.144	9.9	H	56	-	-	46	19.3	29.2
1.160	10.1	N	56	-	-	46	18.9	29.0

※ **NOTE:** Refer to page 11 to page 14 for details.

1. Line H = Hot, Line N = Neutral
2. Transd = LISN factor + Cable Loss factor

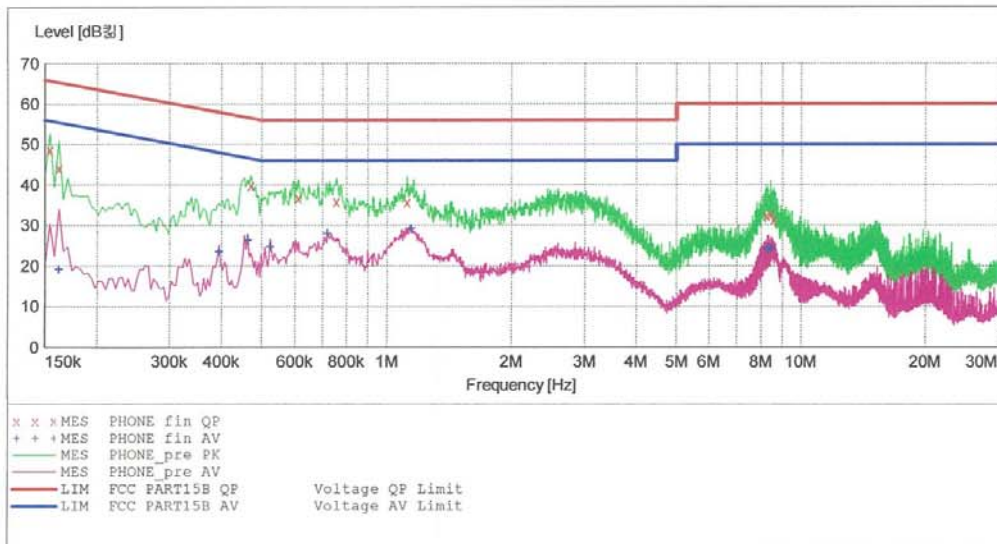
HCT

EMC

EUT: LG-D800
Manufacturer: LG
Operating Condition: DATA MODE (USB 2.0)
Test Site: SHIELD ROOM
Operator: GC YOON
Test Specification: FCC PART15 B
Comment: H

SCAN TABLE: "FCC CLASS B(H)"

Short Description:			KN22 CLASS B			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
Frequency	Frequency	Width				
150.0 kHz	500.0 kHz	4.0 kHz	MaxPeak	10.0 ms	9 kHz	None
			Average			
500.0 kHz	5.0 MHz	4.0 kHz	MaxPeak	10.0 ms	9 kHz	None
			Average			
5.0 MHz	30.0 MHz	4.0 kHz	MaxPeak	10.0 ms	9 kHz	None
			Average			



MEASUREMENT RESULT: "PHONE_fin QP"

2013-07-08 10:16오전

Frequency MHz	Level dB	Transd dB	Limit dB	Margin dB	Line	PE
0.154001	48.60	9.8	66	17.2	---	---
0.162001	44.20	9.8	65	21.1	---	---
0.470001	39.80	9.8	57	16.7	---	---
0.612000	36.80	9.8	56	19.2	---	---
0.756000	36.00	9.8	56	20.0	---	---
1.120000	35.80	9.9	56	20.2	---	---
8.244000	32.30	10.4	60	27.7	---	---
8.464000	32.70	10.4	60	27.3	---	---
8.592000	31.50	10.4	60	28.5	---	---

MEASUREMENT RESULT: "PHONE_fin AV"

2013-07-08 10:16오전

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.162001	19.20	9.8	55	36.1	---	---
0.394001	23.50	9.8	48	24.5	---	---
0.462001	26.40	9.8	47	20.2	---	---
0.524000	24.60	9.8	46	21.4	---	---
0.720000	28.00	9.8	46	18.0	---	---
1.144000	29.20	9.9	46	16.8	---	---
8.288000	24.10	10.4	50	25.9	---	---
8.348000	24.30	10.4	50	25.7	---	---
8.480000	24.40	10.4	50	25.6	---	---

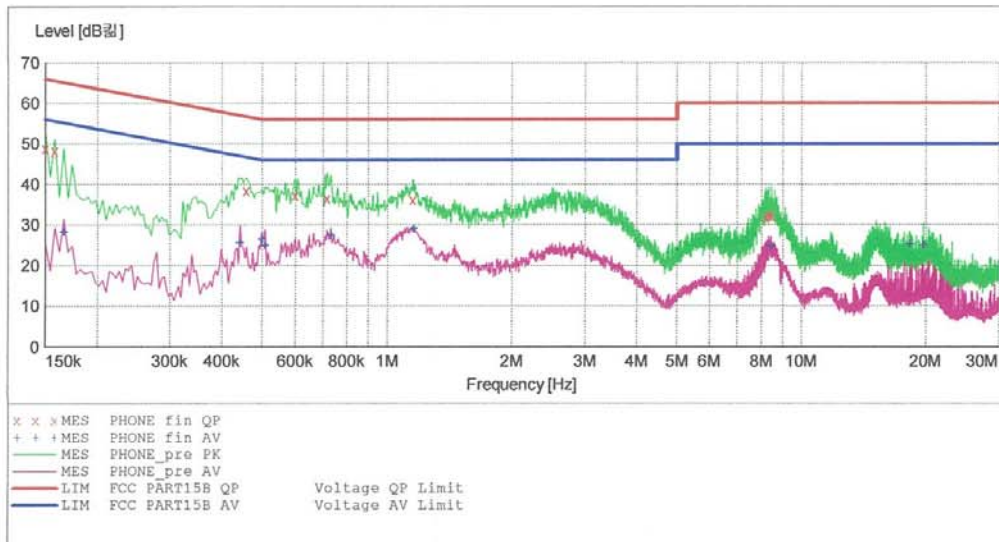
HCT

EMC

EUT: LG-D800
Manufacturer: LG
Operating Condition: DATA MODE (USB 2.0)
Test Site: SHIELD ROOM
Operator: GC YOON
Test Specification: FCC PART15 B
Comment: N

SCAN TABLE: "FCC CLASS B(N)"

Short Description:			KN22 CLASS B			
Start	Stop	Step	Detector	Meas.	IF	Transducer
Frequency	Frequency	Width		Time	Bandw.	
150.0 kHz	500.0 kHz	4.0 kHz	MaxPeak	10.0 ms	9 kHz	None
			Average			
500.0 kHz	5.0 MHz	4.0 kHz	MaxPeak	10.0 ms	9 kHz	None
			Average			
5.0 MHz	30.0 MHz	4.0 kHz	MaxPeak	10.0 ms	9 kHz	None
			Average			



MEASUREMENT RESULT: "PHONE_fin QP"

2013-07-08 10:20오전

Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dBμV	dB	dBμV	dB		
0.150001	48.80	10.0	66	17.2	---	---
0.158001	48.20	10.0	66	17.4	---	---
0.458001	38.40	10.0	57	18.3	---	---
0.600000	37.30	10.0	56	18.7	---	---
0.716000	36.50	10.0	56	19.5	---	---
1.156000	36.10	10.1	56	19.9	---	---
8.196000	31.90	10.6	60	28.1	---	---
8.332000	32.30	10.6	60	27.7	---	---
8.472000	32.40	10.6	60	27.6	---	---

MEASUREMENT RESULT: "PHONE_fin AV"

2013-07-08 10:20오전

Frequency MHz	Level dB _{μV}	Transd dB	Limit dB _{μV}	Margin dB	Line	PE
0.166001	28.30	10.0	55	26.9	---	---
0.442001	25.60	10.0	47	21.4	---	---
0.500000	26.50	10.0	46	19.5	---	---
0.508000	25.00	10.0	46	21.0	---	---
0.732000	27.60	10.0	46	18.4	---	---
1.160000	29.00	10.1	46	17.0	---	---
8.456000	24.70	10.6	50	25.3	---	---
18.244000	25.20	11.2	50	24.8	---	---
19.708000	25.00	11.2	50	25.0	---	---

[Type: USB 3.0]

Limit Apply to : FCC PART 15 Subpart B Class B

Detector : Quasi-Peak, Average (6 dB Bandwidth: 9 kHz)

Operation Mode : Data Communication mode

Temperature : 23.1 °C

Humidity Level : 59.1 %

Test Date : July 08, 2013

Frequency (MHz)	Transd (dB)	Conductor	Quasi-Peak			Average		
			Limit (dBuV)	Measurement Level (dBuV)	Result Level (dBuV)	Limit (dBuV)	Measurement Level (dBuV)	Result Level (dBuV)
0.154	9.8	H	66	40.2	50.0	56	-	-
0.154	10.0	N	66	39.5	49.5	56	-	-
0.162	9.8	H	65	39.0	48.8	55	18.0	27.8
1.164	9.9	H	56	-	-	46	19.3	29.2
1.072	10.1	N	56	-	-	46	17.6	27.7
1.140	10.1	N	56	-	-	46	19.4	29.5

※ **NOTE:** Refer to page 16 to page 19 for details.

1. Line H = Hot, Line N = Neutral
2. Transd = LISN factor + Cable Loss factor

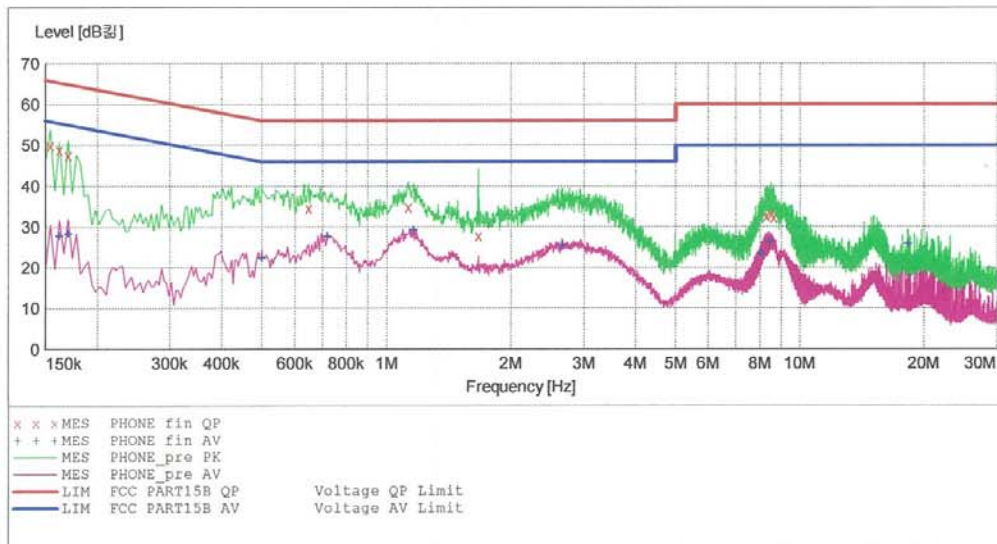
HCT

EMC

EUT: LG-D800
Manufacturer: LG
Operating Condition: DATA MODE (USB 3.0)
Test Site: SHIELD ROOM
Operator: GC YOON
Test Specification: FCC PART15 B
Comment: H

SCAN TABLE: "FCC CLASS B(H)"

Short Description:			KN22 CLASS B			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
Frequency	Frequency	Width				
150.0 kHz	500.0 kHz	4.0 kHz	MaxPeak	10.0 ms	9 kHz	None
			Average			
500.0 kHz	5.0 MHz	4.0 kHz	MaxPeak	10.0 ms	9 kHz	None
			Average			
5.0 MHz	30.0 MHz	4.0 kHz	MaxPeak	10.0 ms	9 kHz	None
			Average			



MEASUREMENT RESULT: "PHONE_fin QP"

2013-07-08 10:07오전

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.154001	50.00	9.8	66	15.8	---	---
0.162001	48.80	9.8	65	16.5	---	---
0.170001	47.60	9.8	65	17.4	---	---
0.648000	34.60	9.8	56	21.4	---	---
1.128000	34.90	9.9	56	21.1	---	---
1.668000	27.80	9.9	56	28.2	---	---
8.296000	32.60	10.4	60	27.4	---	---
8.532000	33.20	10.4	60	26.8	---	---
8.644000	32.40	10.4	60	27.6	---	---

MEASUREMENT RESULT: "PHONE_fin AV"

2013-07-08 10:07 오전

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.162001	27.80	9.8	55	27.5	---	---
0.170001	28.40	9.8	55	26.6	---	---
0.500000	22.40	9.8	46	23.6	---	---
0.720000	27.70	9.8	46	18.3	---	---
1.164000	29.20	9.9	46	16.8	---	---
2.664000	25.30	10.0	46	20.7	---	---
8.068000	23.50	10.4	50	26.5	---	---
8.444000	26.40	10.4	50	23.6	---	---
18.244000	25.80	10.9	50	24.2	---	---

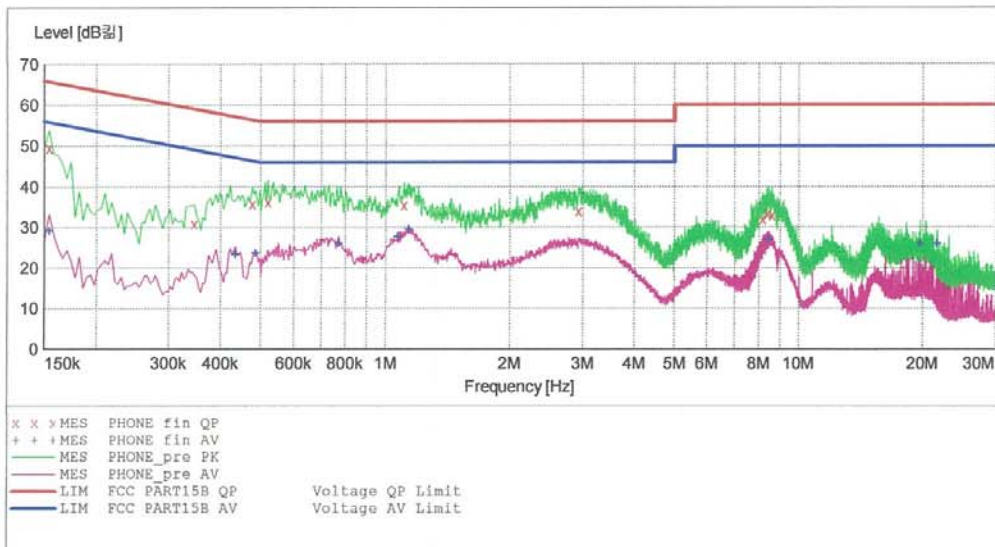
HCT

EMC

EUT: LG-D800
Manufacturer: LG
Operating Condition: DATA MODE (USB 3.0)
Test Site: SHIELD ROOM
Operator: GC YOON
Test Specification: FCC PART15 B
Comment: N

SCAN TABLE: "FCC CLASS B(N)"

Short Description:			KN22 CLASS B			
Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
150.0 kHz	500.0 kHz	4.0 kHz	MaxPeak	10.0 ms	9 kHz	None
			Average			
500.0 kHz	5.0 MHz	4.0 kHz	MaxPeak	10.0 ms	9 kHz	None
			Average			
5.0 MHz	30.0 MHz	4.0 kHz	MaxPeak	10.0 ms	9 kHz	None
			Average			



MEASUREMENT RESULT: "PHONE_fin QP"

2013-07-08 10:04오전

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.154001	49.50	10.0	66	16.3	---	---
0.346001	30.90	10.0	59	28.1	---	---
0.478001	35.80	10.0	56	20.6	---	---
0.520000	36.30	10.0	56	19.7	---	---
1.112000	35.50	10.1	56	20.5	---	---
2.936000	34.00	10.2	56	22.0	---	---
8.192000	32.10	10.6	60	27.9	---	---
8.408000	33.30	10.6	60	26.7	---	---
8.628000	33.00	10.6	60	27.0	---	---

MEASUREMENT RESULT: "PHONE_fin AV"

2013-07-08 10:04오전

Frequency MHz	Level dB _{μV}	Transd dB	Limit dB _{μV}	Margin dB	Line	PE
0.154001	29.20	10.0	56	26.6	---	---
0.434001	23.50	10.0	47	23.7	---	---
0.486001	23.60	10.0	46	22.7	---	---
0.772000	26.10	10.0	46	19.9	---	---
1.072000	27.70	10.1	46	18.3	---	---
1.140000	29.50	10.1	46	16.5	---	---
8.444000	27.00	10.6	50	23.0	---	---
19.708000	26.00	11.2	50	24.0	---	---
21.664000	25.90	11.3	50	24.1	---	---

4.2 Radiated Emission Test

The following table shows the highest levels of Radiated Emissions on both polarization of horizontal and vertical.

[Type: USB 2.0]

-For measurement below 1 GHz

Limit Apply to : FCC PART 15 Subpart B Class B

Detector : Quasi-Peak (6 dB Bandwidth: 120 kHz)

Operation Mode : Data Communication mode

Temperature : 23.7 °C

Humidity Level : 57.0 %

Test Date : July 05, 2013

Frequency (MHz)	Reading (dBuV)	Polarity (H/V)	Antenna Height (m)	Correction Factor		Limit (dBuV/m)	Level (dBuV/m)	Margin (dB)
				Antenna (dB/m)	Cable (dB)			
130.000	13.83	H	1.0	12.26	4.02	43.5	30.1	13.4
212.700	21.53	H	1.3	10.29	4.38	43.5	36.2	7.3
215.100	22.52	H	1.3	10.39	4.39	43.5	37.3	6.2
257.700	19.76	H	1.2	12.02	4.52	46.0	36.3	9.7
303.200	13.97	H	1.2	13.48	4.65	46.0	32.1	13.9
340.500	16.21	H	1.0	14.31	4.79	46.0	35.3	10.7

-For measurement above 1 GHz

Limit Apply to : FCC PART 15 Subpart B Class B

Detector : Peak mode: Peak (RBW: 1 MHz, VBW: 1 MHz)
: Average mode: Peak (RBW: 1 MHz, VBW: 10 Hz)

Operation Mode : Data Communication mode

Temperature : 24.3 °C

Humidity Level : 58.8 %

Test Date : July 04, 2013

Frequency (GHz)	Peak			POL	Average		
	Total (dBμV/m)	Limit (dBμV/m)	Margin (dB)		Total (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2.2434	51.20	74	22.8	V	36.00	54	18.0
2.2439	50.10	74	23.9	H	29.70	54	24.3

※ NOTE:

1. Measurement above 1 GHz was performed from 1 GHz to the 5th harmonic of highest fundamental frequency. Test was measured by 12 GHz.

[Type: USB 3.0]

-For measurement below 1 GHz

Limit Apply to : FCC PART 15 Subpart B Class B

Detector : Quasi-Peak (6 dB Bandwidth: 120 kHz)

Operation Mode : Data Communication mode

Temperature : 23.7 °C

Humidity Level : 57.0 %

Test Date : July 05, 2013

Frequency (MHz)	Reading (dBuV)	Polarity (H/V)	Antenna Height (m)	Correction Factor		Limit (dBuV/m)	Level (dBuV/m)	Margin (dB)
				Antenna (dB/m)	Cable (dB)			
97.400	14.50	H	1.0	8.76	3.84	43.5	27.1	16.4
214.000	17.37	H	1.3	10.34	4.38	43.5	32.1	11.4
265.000	22.40	H	1.3	12.26	4.54	46.0	39.2	6.8
321.200	16.40	H	1.2	13.88	4.72	46.0	35.0	11.0
360.900	11.38	H	1.0	14.76	4.86	46.0	31.0	15.0
624.000	6.93	H	1.2	19.96	5.51	46.0	32.4	13.6

-For measurement above 1 GHz

Limit Apply to : FCC PART 15 Subpart B Class B

Detector : Peak mode: Peak (RBW: 1 MHz, VBW: 1 MHz)
: Average mode: Peak (RBW: 1 MHz, VBW: 10 Hz)

Operation Mode : Data Communication mode

Temperature : 24.3 °C

Humidity Level : 58.8 %

Test Date : July 04, 2013

Frequency (GHz)	Peak			POL	Average		
	Total (dBμV/m)	Limit (dBμV/m)	Margin (dB)		Total (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2.2491	51.90	74	22.1	V	36.30	54	17.7
2.2491	46.10	74	27.9	H	29.90	54	24.1

※ NOTE:

1. Measurement above 1 GHz was performed from 1 GHz to the 5th harmonic of highest fundamental frequency. Test was measured by 12 GHz.

5. FIELD STRENGTH CALCULATION

The field strength is calculated by adding the antenna factor and cable factor.
The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CF$$

Where FS = Field Strength

RA = Receiver Amplitude

AF = Antenna Factor

CF = Cable Attenuation Factor

Assume a receiver reading of 21.5 dB μ V is obtained. The antenna factor of 7.4 dB/m and a cable factor of 1.1 dB are added. The 30 dB μ V/m value is mathematically converted to its corresponding level in μ V/m.

$$FS = 21.5 + 7.4 + 1.1 = 30 \text{ dB}\mu\text{V/m}$$

[Radiated Emission Limits]

Frequency of Emission (MHz)	Field Strength	
	μ V/m	dB μ V/m
30 to 88	100	40.0
88 to 216	150	43.5
216 to 960	200	46.0
Above 960	500	54.0

6. TEST EQUIPMENT

<u>Type</u>	<u>Manufacturer</u>	<u>Model Name</u>	<u>Serial Number</u>	<u>Calibration Cycle</u>	<u>Next CAL Date</u>
<u>Conducted Emission</u>					
☒ EMI Test Receiver	Rohde & Schwarz	ESCI	100584	1 year	2014.04.25
☒ LISN	EMCO	3816/2SH	9706-1070	1 year	2014.04.26
☒ LISN	Rohde & Schwarz	ENV216	100073	1 year	2014.02.06
☐ Attenuator	Rohde & Schwarz	ESH3-Z2	357.8810.352	1 year	2013.07.31

Radiated Emission

-For measurement below 1 GHz

☒ EMI Test Receiver	Rohde & Schwarz	ESI40	831564103	1 year	2014.04.16
☒ Trilog Antenna	Schwarzbeck	VULB9160	3301	2 year	2014.12.17
☒ Antenna master	HD GmbH	MA240	240/520	N/A	-
☒ Turn Table	HD GmbH	2090	9702/1224	N/A	-

-For measurement above 1 GHz

☒ EMI Test Receiver	Rohde & Schwarz	ESI40	831564103	1 year	2014.04.16
☒ Antenna master	HD GmbH	MA240	240/520	N/A	-
☒ Turn Table	HD GmbH	2090	9702/1224	N/A	-
☒ Power Amplifier	Rohde & Schwarz	SCU-18	10094	1 year	2013.09.11
☒ Horn Antenna	Schwarzbeck	BBHA 9120D	296	2 year	2014.12.13

7. CONCLUSION

The data collected shows that the **EUT type: Multi-Band GSM/EDGE/WCDMA/LTE phone with WLAN, Bluetooth and NFC, FCC ID: ZNFD800, Model: LG-D800** complies with §15.107 and §15.109 of the FCC rules.