



HCT CO., LTD.

HCT CO.,LTD

CERTIFICATION DIVISION

74, SEOICHEON-RO, 578BEON-GIL, MAJANG-MYEON, ICHEON-SI, GYEONGGI-DO, KOREA
TEL: +82 31 645 6300 FAX: +82 31 645 6401

EMI CERTIFICATION REPORT

Applicant:

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

Date of Issue: June 27, 2013

Test Report No.: HCTE1306FE23

Test Site: HCT CO., LTD.

HCT FRN: 0005-8664-21

FCC ID:

ZNFVS980

Rule Part(s) / Standard(s) : FCC PART 15 Subpart B Class B
Equipment Type : GSM/WCDMA/CDMA/LTE Phone Bluetooth, WLAN and NFC
Model Name : LG-VS980
Port / Connector(s) : USB / Earphone Port
Date of Test : June 17, 2013 – June 20, 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 subject to a denial of Federal benefits that includes 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

: Jin-Pyo Hong
Manager of EMC Team

DOCUMENT HISTORY

The revision history for this document is shown in table.

Version	Date	Description
HCTE1306FE23	June 27, 2013	Initial Release

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ATTACHMENT: TEST SETUP PHOTOGRAPHS

1. GENERAL INFORMATION

1.1 Product Description

Equipment Under Test is **EUT type: GSM/WCDMA/CDMA/LTE Phone Bluetooth, WLAN and NFC, Model: LG-VS980** manufactured by **LG Electronics MobileComm U.S.A., Inc.** Its basic purpose is used for communications.

Model	LG-VS980
FCC ID	ZNFVS980
EUT Type	GSM/WCDMA/CDMA/LTE Phone Bluetooth, WLAN 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) 1 710 MHz to 1 755 MHz (LTE B4) 777 MHz to 787 MHz (LTE B13) 824.70 MHz to 848.31 MHz (CDMA BC0) 1 851.25 MHz to 1 908.75 MHz (CDMA BC1)
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) 2 110 MHz to 2 155 MHz (LTE B4) 746 MHz to 756 MHz (LTE B13) 869.70 MHz to 893.31 MHz (CDMA BC0) 1 931.25 MHz to 1 988.75 MHz (CDMA BC1)

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-VS980	ZNFVS980	Notebook PC Ear-phone
USB cable (2.0)	INTERFACESAMIL	IFS0020	-	E.U.T Notebook PC
USB cable (3.0)	Ningbo	LG0107	-	E.U.T Notebook PC
Ear-phone	I-SOUND	EAB62729001	-	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	Series 2-button 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	Y	Y	(P,D)1.2
	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)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.

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

Product Name	Port	Ferrite Bead (Y/N)	Location	Metal Hood (Y/N)	Location
EUT	Micro USB	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

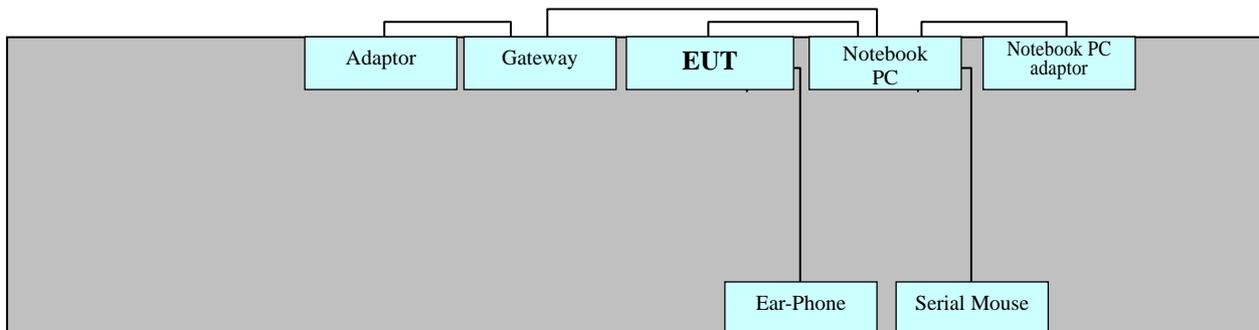
2.1.1 Conducted Emission Test

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	: 25.0 °C
Humidity Level	: 49.8 %
Test Date	: June 18, 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	41.8	51.8	56	18.5	28.5
0.154	9.8	H	66	41.2	51.0	56	-	-
0.162	9.8	H	65	40.3	50.1	55	-	-
0.170	9.8	H	65	37.8	47.6	55	18.6	28.4
0.174	10.0	N	65	36.8	46.8	55	-	-
2.764	10.2	N	56	-	-	46	17.7	27.9

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

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

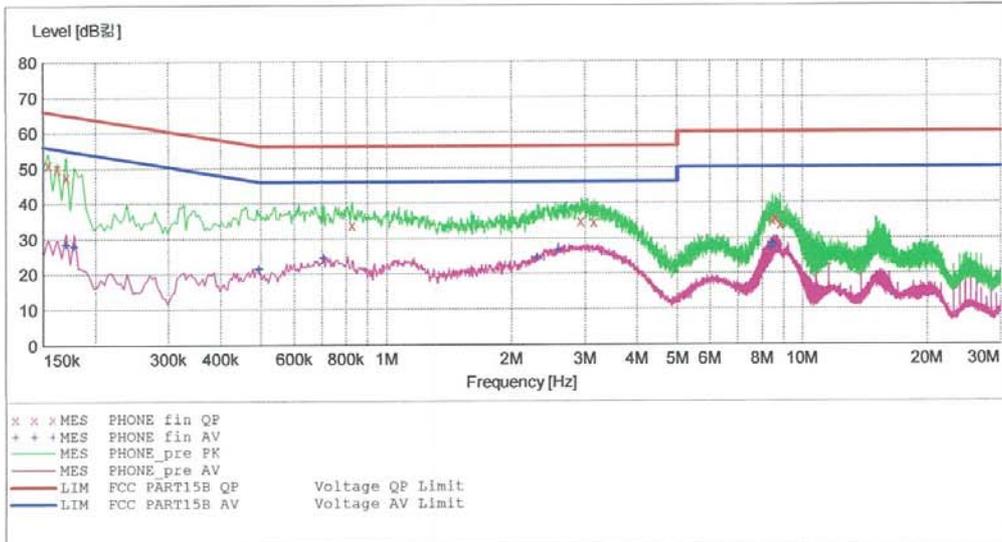
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EMC

EUT: LG-VS980
 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"

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Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.154001	51.00	9.8	66	14.8	---	---
0.162001	50.10	9.8	65	15.2	---	---
0.170001	47.60	9.8	65	17.3	---	---
0.828000	33.80	9.8	56	22.2	---	---
2.940000	34.80	10.0	56	21.2	---	---
3.156000	34.40	10.1	56	21.6	---	---
8.488000	34.90	10.4	60	25.1	---	---
8.612000	35.50	10.4	60	24.5	---	---
8.836000	33.80	10.4	60	26.2	---	---

MEASUREMENT RESULT: "PHONE_fin AV"

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Frequency MHz	Level dB _{μV}	Transd dB	Limit dB _{μV}	Margin dB	Line	PE
0.170001	28.40	9.8	55	26.6	---	---
0.178001	27.80	9.8	55	26.7	---	---
0.494001	21.40	9.8	46	24.7	---	---
0.708000	24.40	9.8	46	21.6	---	---
2.308000	24.50	10.0	46	21.5	---	---
2.592000	26.60	10.0	46	19.4	---	---
8.384000	26.90	10.4	50	23.1	---	---
8.472000	28.20	10.4	50	21.8	---	---
8.540000	28.00	10.4	50	22.0	---	---

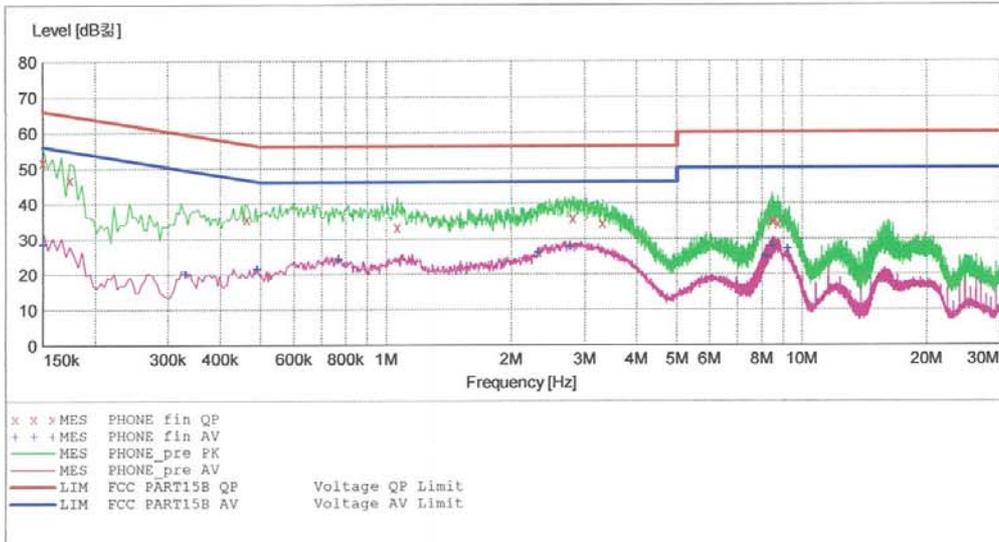
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EMC

EUT: LG-VS980
 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 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
500.0 kHz	5.0 MHz	4.0 kHz	Average			
			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"

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Frequency MHz	Level dB	Transd dB	Limit dB	Margin dB	Line	PE
0.150001	51.80	10.0	66	14.2	---	---
0.174001	46.80	10.0	65	17.9	---	---
0.462001	35.70	10.0	57	21.0	---	---
1.064000	33.30	10.1	56	22.7	---	---
2.812000	35.80	10.2	56	20.2	---	---
3.316000	34.50	10.3	56	21.5	---	---
8.476000	35.20	10.6	60	24.8	---	---
8.528000	35.00	10.6	60	25.0	---	---
8.744000	34.20	10.6	60	25.8	---	---

MEASUREMENT RESULT: "PHONE_fin AV"

2013-06-18 4:32오후

Frequency MHz	Level dB _{μV}	Transd dB	Limit dB _{μV}	Margin dB	Line	PE
0.150001	28.50	10.0	56	27.5	---	---
0.330001	20.10	10.0	50	29.3	---	---
0.490001	21.50	10.0	46	24.7	---	---
0.768000	24.20	10.0	46	21.8	---	---
2.320000	26.20	10.2	46	19.8	---	---
2.764000	27.90	10.2	46	18.1	---	---
8.188000	24.90	10.6	50	25.1	---	---
8.536000	27.70	10.6	50	22.3	---	---
9.244000	27.00	10.7	50	23.0	---	---

[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 : 25.0 °C

Humidity Level : 49.8 %

Test Date : June 18, 2013

Frequency (MHz)	Transd (dB)	Conductor	Quasi-Peak			Average		
			Limit	Measurement Level	Result Level	Limit	Measurement Level	Result Level
			(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dBuV)
0.150	10.0	N	66	40.1	50.1	56	-	-
0.154	9.8	H	66	39.5	49.3	56	-	-
0.162	9.8	H	65	39.0	48.8	55	19.2	29.0
0.170	9.8	H	65	37.4	47.2	55	-	-
0.532	10.0	N	56	25.4	35.4	46	-	-
2.620	10.2	N	56	-	-	46	15.9	26.1

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

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

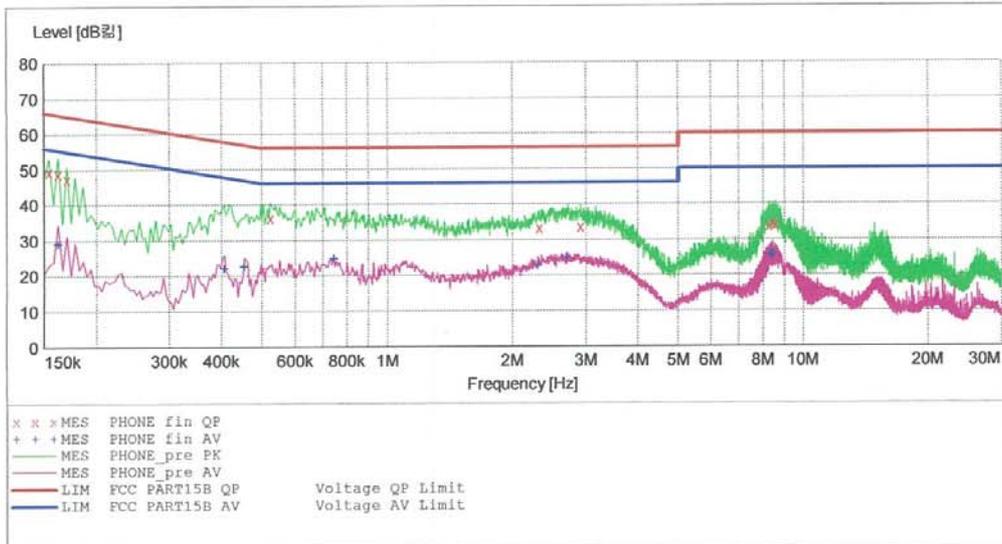
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EMC

EUT: LG-VS980
 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 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
500.0 kHz	5.0 MHz	4.0 kHz	Average			
			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"

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Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.154001	49.30	9.8	66	16.4	---	---
0.162001	48.80	9.8	65	16.6	---	---
0.170001	47.20	9.8	65	17.8	---	---
0.524000	36.20	9.8	56	19.8	---	---
2.320000	33.20	10.0	56	22.8	---	---
2.916000	33.50	10.0	56	22.5	---	---
8.264000	33.60	10.4	60	26.4	---	---
8.484000	34.40	10.4	60	25.6	---	---
8.576000	34.10	10.4	60	25.9	---	---

MEASUREMENT RESULT: "PHONE_fin AV"

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Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.162001	29.00	9.8	55	26.4	---	---
0.406001	22.00	9.8	48	25.7	---	---
0.454001	22.50	9.8	47	24.3	---	---
0.744000	24.70	9.8	46	21.3	---	---
2.300000	22.70	10.0	46	23.3	---	---
2.704000	24.80	10.0	46	21.2	---	---
8.344000	25.50	10.4	50	24.5	---	---
8.388000	25.80	10.4	50	24.2	---	---
8.456000	25.70	10.4	50	24.3	---	---

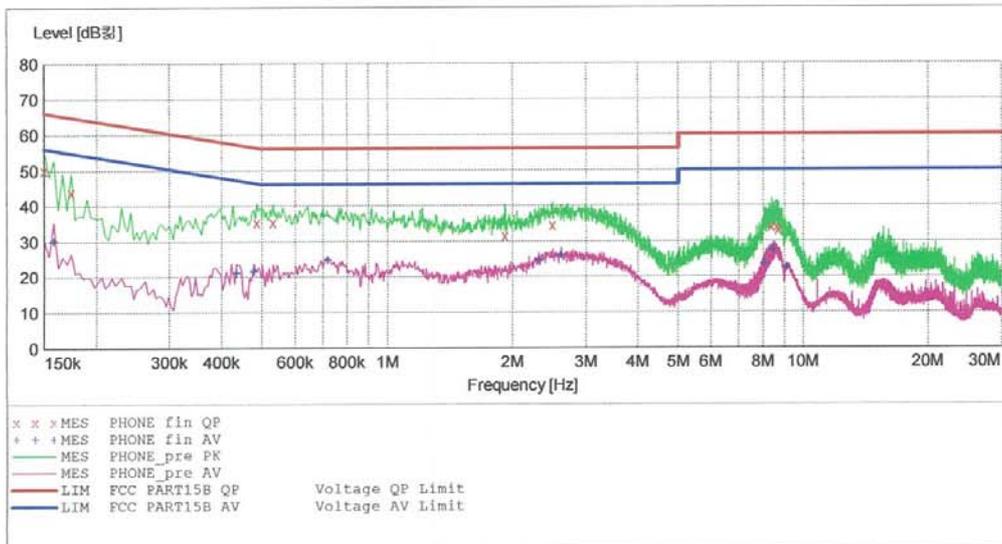
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EMC

EUT: LG-VS980
 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"

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Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.150001	50.10	10.0	66	15.9	---	---
0.174001	43.80	10.0	65	21.0	---	---
0.486001	35.40	10.0	56	20.9	---	---
0.532000	35.40	10.0	56	20.6	---	---
1.920000	31.60	10.1	56	24.4	---	---
2.500000	34.40	10.2	56	21.6	---	---
8.388000	34.10	10.6	60	25.9	---	---
8.632000	33.90	10.6	60	26.1	---	---
8.692000	33.20	10.6	60	26.8	---	---

MEASUREMENT RESULT: "PHONE_fin AV"

2013-06-18 4:40오후

Frequency MHz	Level dB _{μV}	Transd dB	Limit dB _{μV}	Margin dB	Line	PE
0.158001	30.10	10.0	56	25.4	---	---
0.434001	21.20	10.0	47	26.0	---	---
0.478001	21.50	10.0	46	24.9	---	---
0.720000	24.70	10.0	46	21.3	---	---
2.316000	24.60	10.2	46	21.4	---	---
2.620000	26.10	10.2	46	19.9	---	---
8.076000	23.50	10.6	50	26.5	---	---
8.484000	27.30	10.6	50	22.7	---	---
9.132000	22.40	10.6	50	27.6	---	---

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 : 24.1 °C

Humidity Level : 55.0 %

Test Date : June 17, 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)			
36.100	9.86	V	1.0	11.59	3.45	40.0	24.9	15.1
58.700	9.59	V	1.0	11.88	3.63	40.0	25.1	14.9
140.100	13.43	V	1.0	12.74	4.03	43.5	30.2	13.3
213.100	22.31	H	1.2	10.31	4.38	43.5	37.0	6.5
257.600	22.76	V	1.9	12.02	4.52	46.0	39.3	6.7
480.000	10.67	H	1.2	17.23	5.20	46.0	33.1	12.9

-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 : 23.8 °C

Humidity Level : 54.6 %

Test Date : June 20, 2013

Frequency (GHz)	Peak			POL	Average		
	Total (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)		Total (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
1.1804	46.50	74	27.5	V	29.10	54	24.9

※ 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 : 24.1 °C

Humidity Level : 55.0 %

Test Date : June 17, 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)			
58.400	9.88	V	1.0	11.90	3.63	40.0	25.4	14.6
125.000	13.07	V	1.0	12.01	4.02	43.5	29.1	14.4
213.000	23.41	H	1.2	10.30	4.38	43.5	38.1	5.4
259.200	24.10	V	1.9	12.07	4.53	46.0	40.7	5.3
300.000	17.35	H	1.2	13.41	4.64	46.0	35.4	10.6
622.400	6.65	V	1.0	19.94	5.51	46.0	32.1	13.9

-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 : 23.8 °C

Humidity Level : 54.6 %

Test Date : June 20, 2013

Frequency (GHz)	Peak			POL	Average		
	Total (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)		Total (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
1.2001	44.90	74	29.1	V	29.20	54	24.8

※ 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>					
<input checked="" type="checkbox"/> EMI Test Receiver	Rohde & Schwarz	ESCI	100584	1 year	2014.04.25
<input type="checkbox"/> LISN	Rohde & Schwarz	ESH3-Z5	100282	1 year	2013.07.04
<input checked="" type="checkbox"/> LISN	EMCO	3816/2SH	9706-1070	1 year	2014.04.26
<input checked="" type="checkbox"/> LISN	Rohde & Schwarz	ENV216	100073	1 year	2014.02.06
<input type="checkbox"/> Attenuator	Rohde & Schwarz	ESH3-Z2	357.8810.352	1 year	2013.07.31

Radiated Emission

-For measurement below 1 GHz

<input checked="" type="checkbox"/> EMI Test Receiver	Rohde & Schwarz	ESI40	831564103	1 year	2014.04.16
<input checked="" type="checkbox"/> Trilog Antenna	Schwarzbeck	VULB9160	3301	2 year	2014.12.17
<input checked="" type="checkbox"/> Antenna master	HD GmbH	MA240	240/520	N/A	-
<input checked="" type="checkbox"/> Turn Table	HD GmbH	2090	9702/1224	N/A	-

-For measurement above 1 GHz

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

7. CONCLUSION

The data collected shows that the **EUT type: GSM/WCDMA/CDMA/LTE Phone Bluetooth, WLAN and NFC, FCC ID: ZNFVS980, Model: LG-VS980** complies with §15.107 and §15.109 of the FCC rules.