



HCT CO., LTD.

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## EMI CERTIFICATION REPORT

**Applicant:**

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

10101 Old Grove Road, San Diego, CA 92131

**Date of Issue:** February 16, 2012

**Test Report No.:** HCTE1202FE06

**Test Site:** HCT CO., LTD.

**HCT FRN:** 0005-8664-21

**FCC ID:**

**ZNFVS840**

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

Equipment Type : Cellular/PCS CDMA and LTE Phone with Bluetooth & WLAN

Model Name(s) : VS840, LG-VS840, LGVS840

Port / Connector(s) : USB Port / Headset Port

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**  
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**Test Engineer of EMC Team**

**Approved by**  
**: Sang Jun Lee**  
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**ATTACHMENT: TEST SETUP PHOTOGRAPHS**

## 1. GENERAL INFORMATION

### 1.1 Product Description

Equipment Under Test (E.U.T) is **Cellular/PCS CDMA and LTE Phone with Bluetooth & WLAN, Model: VS840** manufactured by **LG Electronics MobileComm U.S.A., Inc.** Its basic purpose is used for communications.

<b>Model</b>	VS840
<b>Additional Model</b>	LG-VS840, LGVS840
<b>FCC ID</b>	ZNFVS840
<b>E.U.T Type</b>	Cellular/PCS CDMA and LTE Phone with Bluetooth & WLAN
<b>TX Frequency</b>	824.70 MHz to 848.31 MHz (CDMA 835) 1 851.25 MHz to 1 908.75 MHz (PCS CDMA) 777 MHz to 787 MHz (LTE B13)
<b>RX Frequency</b>	869.70 MHz to 893.31 MHz (CDMA 835) 1 931.25 MHz to 1 988.75 MHz (PCS CDMA) 746 MHz to 756 MHz (LTE B13)

### 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 Number	FCC ID / DoC	Connected To
LTE/CDMA Phone	LG	VS840	ZNFVS840	Notebook PC
Notebook PC	LG	X140-02	DoC	E.U.T Notebook PC adaptor
Notebook PC adaptor	DELTA (JIANG SU)	ADP-40PH AD	-	Notebook PC
Mouse	PRIMAX ELECTRONICS	MOARUO	DoC	Notebook PC
USB cable	-	-	-	E.U.T Notebook PC
Headset	-	-	-	E.U.T
SD card (2 GB)	SanDisk	-	-	E.U.T
Router	-	HIGATE PLUS K12L012.00	-	Notebook PC
RJ45 cable	-	-	-	Notebook PC Router
Wireless charging cover	-	-	-	E.U.T
Wireless Charging Pad	LG	WCP-700	TA120027953	E.U.T Wireless Charging Pad TA
Wireless Charging Pad TA	-	WCA-D01WT	-	Wireless Charging Pad

### 1.4 Cable Description

Product Name	Port	Power Cord Shielded (Y/N)	I/O Cable Shielded (Y/N)	Length (m)
LTE/CDMA Phone	Micro USB	Y	Y	(P,D)1.2
	Headset jack	-	N	(D)1.1
	Wireless Charging Pad	-	-	-
Wireless Charging Pad	DC IN	N	-	(P)1.5
Notebook PC	RJ 45	-	N	(D)1.5
	USB (Mouse)	-	Y	(D)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
LTE/CDMA Phone	Micro USB	N	-	Y	Both End
	Headset jack	N	-	Y	E.U.T End
	Wireless Charging Pad	-	-	-	-
Wireless Charging Pad	DC IN	Y	E.U.T End	Y	E.U.T End
Notebook PC	RJ 45	N	-	N	Router
	USB (Mouse)	-	-	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 E.U.T distance of 3 m

## 1.7 Test Facility

The 10 m semi anechoic chamber used to collect the test is located at the 105-1, Jangam-Ri, Majang-Myeon, Icheon-Si, Kyoungki-Do, Republic of Korea. Those measurement facilities are constructed in conformance with the requirements of ANSI C63.4.

Detailed description of test facilities was submitted to the Commission and accepted dated Mar. 02, 2011 (Registration Number: 90661)

## 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 <sup>th</sup> harmonic of the highest frequency or 40 GHz, whichever is lower

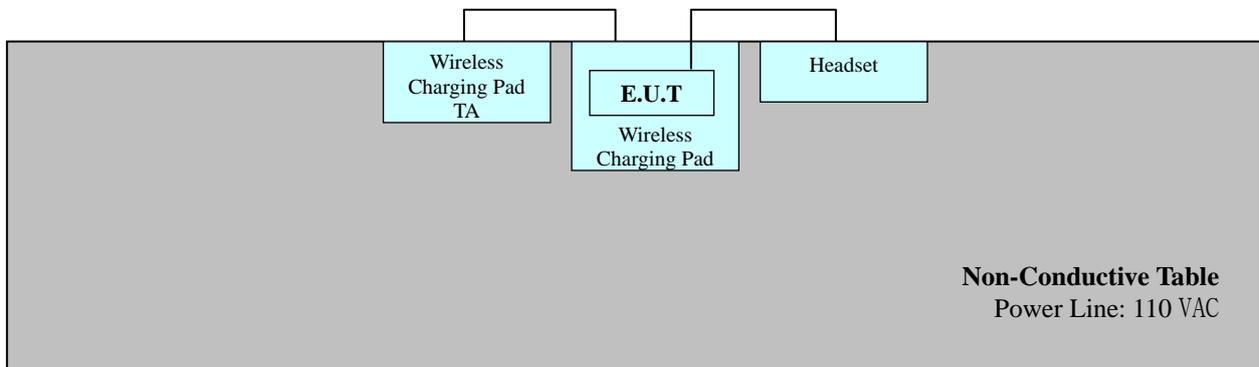
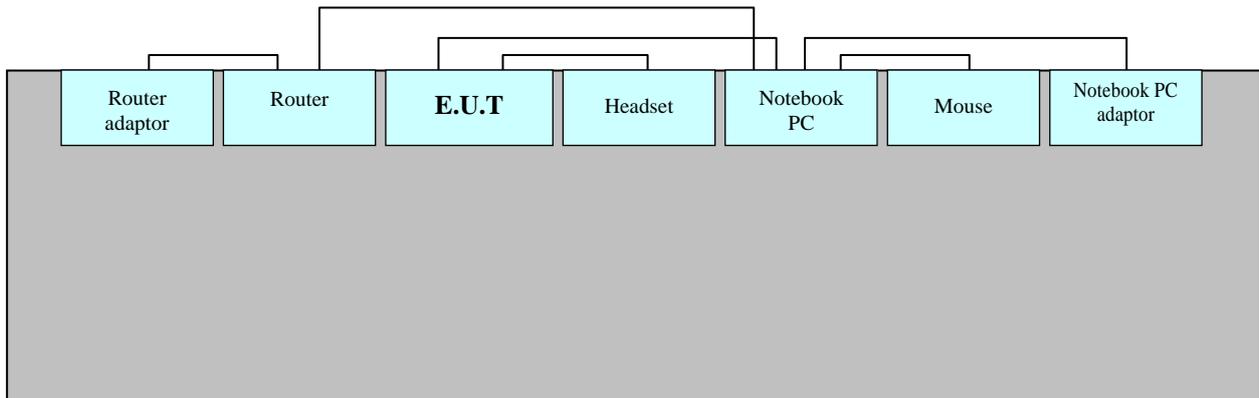
## 2. SYSTEM TEST CONFIGURATION

### 2.1 Configuration of Test System

Power Line Conducted test : E.U.T 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.

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]



### 3. PRELIMINARY TEST

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#### 3.1 Conducted Emission Test

■ During preliminary tests, the following operating mode was investigated:

- Configuration of Test:       Standard cover  
    Wireless charging cover  
Operation Mode:                 Data Communication mode  
**\* The Worst Operating Condition: Standard cover**

- Configuration of Test:       Wireless Charging Pad  
Operation Mode:                 Idle mode  
    Camera (VGA, MEGA) mode  
    MP3 mode  
**\* The Worst Operating Condition: Camera (MEGA)**

#### 3.2 Radiated Emission Test

■ During preliminary tests, the following operating mode was investigated:

- Configuration of Test:       Standard cover  
    Wireless charging cover  
Operation Mode:                 Data Communication mode  
**\* The Worst Operating Condition: Standard cover**

- Configuration of Test:       Wireless Charging Pad  
Operation Mode:                 Idle mode  
    Camera (VGA, MEGA) mode  
    MP3 mode  
**\* The Worst Operating Condition: Camera (MEGA)**

## 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.

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	: 26.3 °C
Humidity Level	: 44.6 %
Test Date	: February 14, 2012
Detector	: Quasi-Peak, Average (6 dB Bandwidth: 9 kHz)
Operation Mode	: Wireless Charging Pad _ Camera(MEGA) mode
Temperature	: 22.8 °C
Humidity Level	: 50.0 %
Test Date	: January 01, 2012

※ **NOTE:** Refer to page 10 to page 17 for details.

**a. Standard Cover \_ Data Communication Mode**

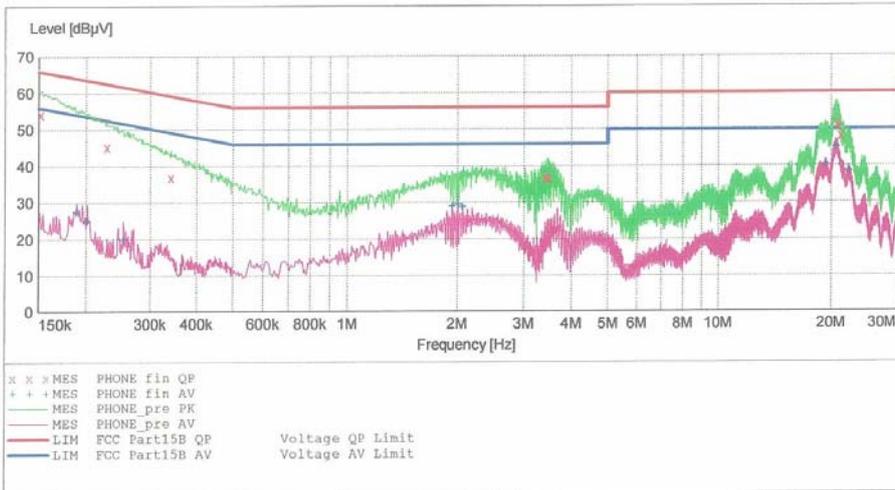
HCT

EMC

EUT: VS840  
 Manufacturer: LG  
 Operating Condition: DATA MODE  
 Test Site: SHIELD ROOM  
 Operator: JH CHOI  
 Test Specification: FCC PART15 CLASS B  
 Comment: H(STANDARD COVER)

**SCAN TABLE: "FCC PART 15 B(H)"**

Short Description:			FCC PART 15 CLASS B			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
Frequency	Frequency	Width				
150.0 kHz	500.0 kHz	1.0 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"**

2/14/2012 3:52PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.152010	54.20	10.1	66	11.7	---	---
0.228010	45.40	10.1	63	17.2	---	---
0.340010	37.00	10.1	59	22.2	---	---
3.420000	36.80	10.3	56	19.2	---	---
3.460000	36.80	10.3	56	19.2	---	---
3.488000	36.60	10.3	56	19.4	---	---
20.752000	51.50	11.9	60	8.5	---	---
20.868000	50.60	11.9	60	9.4	---	---
21.168000	48.10	11.9	60	11.9	---	---

**MEASUREMENT RESULT: "PHONE\_fin AV"**

2/14/2012 3:52PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.189010	27.50	10.1	54	26.6	---	---
0.202010	25.00	10.1	54	28.5	---	---
0.253010	19.90	10.1	52	31.8	---	---
1.940000	28.90	10.2	46	17.1	---	---
2.004000	29.50	10.2	46	16.5	---	---
2.064000	28.80	10.2	46	17.2	---	---
19.320000	40.20	11.8	50	9.8	---	---
20.580000	44.90	11.9	50	5.1	---	---
22.220000	38.30	12.0	50	11.7	---	---

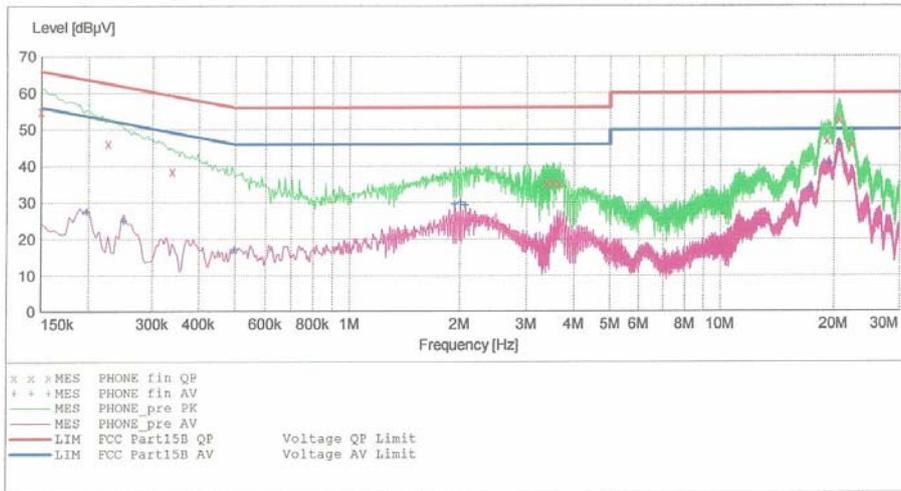
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**EMC**

EUT: VS840  
 Manufacturer: LG  
 Operating Condition: DATA MODE  
 Test Site: SHIELD ROOM  
 Operator: JH CHOI  
 Test Specification: FCC PART15 CLASS B  
 Comment: N (STANDARD COVER)

**SCAN TABLE: "FCC PART 15 B(N)"**

Short Description:			FCC PART 15 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"**

2/14/2012 3:48PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.150010	54.90	10.3	66	11.1	---	---
0.226010	46.30	10.3	63	16.3	---	---
0.338010	38.50	10.3	59	20.7	---	---
3.392000	35.10	10.5	56	20.9	---	---
3.524000	35.60	10.6	56	20.4	---	---
3.668000	35.10	10.6	56	20.9	---	---
19.172000	47.00	11.7	60	13.0	---	---
20.616000	52.80	11.7	60	7.2	---	---
22.236000	45.90	11.8	60	14.1	---	---

**MEASUREMENT RESULT: "PHONE\_fin AV"**

2/14/2012 3:48PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.198010	27.60	10.3	54	26.0	---	---
0.250010	24.90	10.3	52	26.9	---	---
0.498010	17.20	10.3	46	28.8	---	---
1.940000	29.60	10.4	46	16.4	---	---
2.004000	30.00	10.4	46	16.0	---	---
2.068000	29.30	10.4	46	16.7	---	---
17.360000	33.80	11.5	50	16.2	---	---
19.456000	40.50	11.7	50	9.5	---	---
20.652000	45.80	11.7	50	4.2	---	---

**b. Wireless Charging Pad \_ Camera(MEGA) Mode**

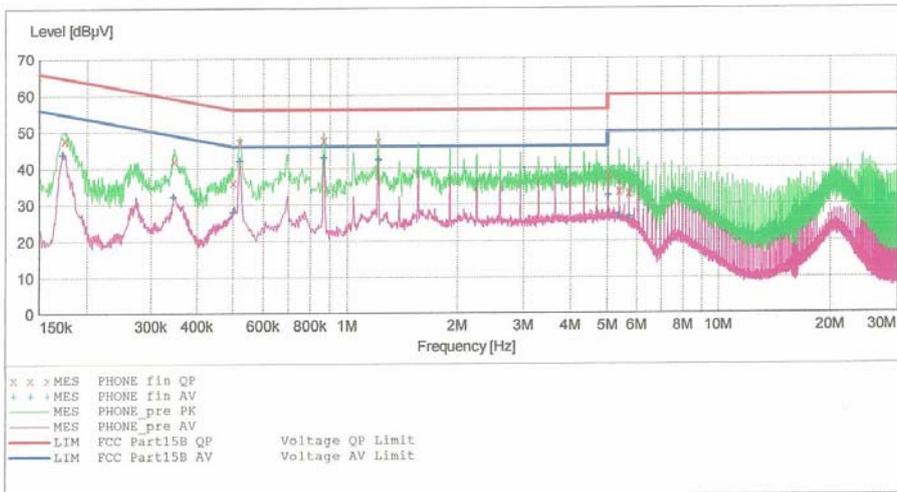
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EMC

EUT: VS840  
 Manufacturer: LG  
 Operating Condition: CAMERA MODE(MEGA)  
 Test Site: SHIELD ROOM  
 Operator: JH CHOI  
 Test Specification: FCC PART15 CLASS B  
 Comment: H(WIRELESS CHARGING PAD)

**SCAN TABLE: "FCC PART 15 B(H)"**

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
150.0 kHz	500.0 kHz	1.0 kHz	MaxPeak	10.0 ms	9 kHz	None
500.0 kHz	5.0 MHz	4.0 kHz	Average	10.0 ms	9 kHz	None
5.0 MHz	30.0 MHz	4.0 kHz	MaxPeak	10.0 ms	9 kHz	None
			Average			



**MEASUREMENT RESULT: "PHONE\_fin QP"**

1/31/2012 1:38PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.175010	47.90	10.1	65	16.8	---	---
0.347010	42.20	10.1	59	16.9	---	---
0.499010	36.10	10.1	56	19.9	---	---
0.520000	47.40	10.1	56	8.6	---	---
0.868000	47.70	10.1	56	8.3	---	---
1.216000	47.40	10.2	56	8.6	---	---
5.032000	38.10	10.5	60	21.9	---	---
5.376000	33.60	10.6	60	26.4	---	---
5.724000	33.10	10.6	60	26.9	---	---

**MEASUREMENT RESULT: "PHONE\_fin AV"**

1/31/2012 1:38PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.173010	43.80	10.1	55	11.0	---	---
0.345010	32.20	10.1	49	16.9	---	---
0.499010	27.90	10.1	46	18.1	---	---
0.520000	42.00	10.1	46	4.0	---	---
0.868000	42.80	10.1	46	3.2	---	---
1.216000	42.30	10.2	46	3.7	---	---
5.032000	32.30	10.5	50	17.7	---	---
5.376000	26.70	10.6	50	23.3	---	---
5.724000	26.50	10.6	50	23.5	---	---

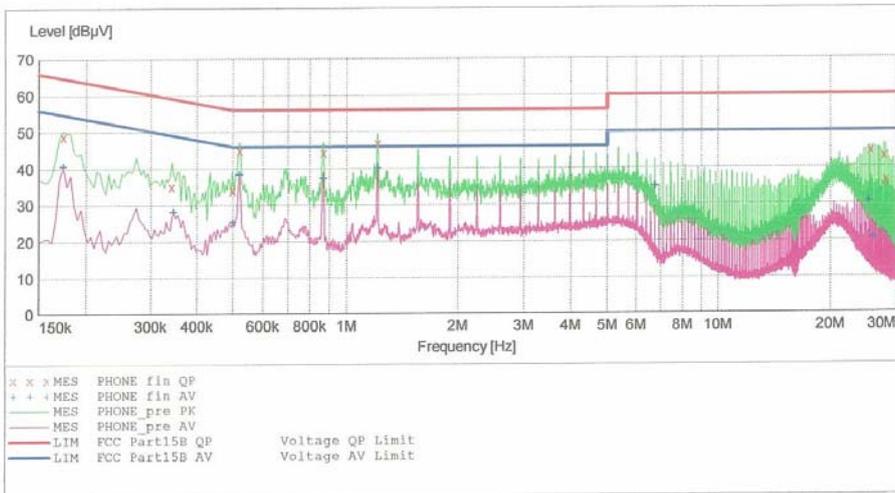
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**EMC**

EUT: VS840  
 Manufacturer: LG  
 Operating Condition: CAMERA MODE(MEGA)  
 Test Site: SHIELD ROOM  
 Operator: JH CHOI  
 Test Specification: FCC PART15 CLASS B  
 Comment: N(WIRELESS CHARGING PAD)

**SCAN TABLE: "FCC PART 15 B(N)"**

Short Description:			FCC PART 15 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"**

1/31/2012 1:33PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.174010	48.90	10.3	65	15.9	---	---
0.342010	35.10	10.3	59	24.1	---	---
0.498010	34.10	10.3	56	21.9	---	---
0.520000	45.00	10.3	56	11.0	---	---
0.868000	44.30	10.4	56	11.7	---	---
1.212000	46.90	10.4	56	9.1	---	---
25.604000	44.50	11.8	60	15.5	---	---
27.676000	43.10	11.9	60	16.9	---	---
28.032000	36.20	11.9	60	23.8	---	---

**MEASUREMENT RESULT: "PHONE\_fin AV"**

1/31/2012 1:33PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.174010	40.60	10.3	55	14.1	---	---
0.346010	28.10	10.3	49	20.9	---	---
0.500000	25.30	10.3	46	20.7	---	---
0.520000	38.30	10.3	46	7.7	---	---
0.868000	37.30	10.4	46	8.7	---	---
1.212000	40.00	10.4	46	6.0	---	---
6.748000	34.90	10.9	50	15.1	---	---
25.260000	30.60	11.8	50	19.4	---	---
25.956000	20.60	11.8	50	29.4	---	---

## 4.2 Radiated Emission Test

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

Limit Apply to : FCC PART 15 Subpart B Class B

**-For measurement below 1 GHz**

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

Operation Mode : Standard Cover \_ Data Communication mode

**-For measurement above 1 GHz**

Detector : Peak mode: Peak (RBW: 1 MHz / VBW: 1 MHz)

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

Operation Mode : Standard Cover \_ Data Communication mode

Temperature : 25.6 °C

Humidity Level : 46.3 %

Test Date : February 14, 2012

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)			
47.4	18.18	V	1.0	12.07	1.15	40.0	31.4	8.6
76.6	21.90	H	1.2	9.02	1.48	40.0	32.4	7.6
125.0	21.46	H	2.8	11.62	1.93	43.5	35.0	8.5
138.8	18.68	V	1.0	12.48	2.03	43.5	33.2	10.3
217.0	15.82	H	1.0	10.22	2.56	46.0	28.6	17.4
753.1	10.45	H	1.5	21.98	4.97	46.0	37.4	8.6

Limit Apply to : FCC PART 15 Subpart B Class B

**-For measurement below 1 GHz**

Detector : Quasi-Peak (6 dB Bandwidth: 120 kHz)  
 Operation Mode : Wireless Charging Pad \_ Camera(MEGA) mode

**-For measurement above 1 GHz**

Detector : Peak mode: Peak (RBW: 1 MHz / VBW: 1 MHz)  
 : Average mode: Peak (RBW: 1 MHz / VBW: 10 Hz)  
 Operation Mode : Wireless Charging Pad \_ Camera(MEGA) mode

Temperature : 23.4 °C  
 Humidity Level : 49.6 %  
 Test Date : November 11, 2012

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)			
40.2	17.57	V	1.0	11.68	1.05	40.0	30.3	9.7
45.7	21.08	V	1.0	12.09	1.13	40.0	34.3	5.7
74.7	15.23	V	1.0	9.31	1.46	40.0	26.0	14.0
121.3	13.72	V	1.2	11.38	1.90	43.5	27.0	16.5
185.5	14.28	V	1.2	10.86	2.36	43.5	27.5	16.0
294.3	13.75	H	1.5	13.24	3.02	46.0	30.0	16.0

**※ NOTE:**

1. Measurement above 1 GHz was performed from 1 GHz to the 5<sup>th</sup> harmonic of highest fundamental frequency. The highest fundamental frequency is PCS CDMA center frequency.
2. For measurement above 1 GHz, Emission noise was not founded over the ambient noise.

## 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 $\mu$ V is obtained. The antenna factor of 7.4 dB/m and a cable factor of 1.1 dB are added. The 30 dB $\mu$ V/m value is mathematically converted to its corresponding level in  $\mu$ 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	
	$\mu$ V/m	dB $\mu$ 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 Number</u>	<u>Serial Number</u>	<u>Next CAL Date</u>
<b><u>Conducted Emission</u></b>				
<input type="checkbox"/> EMI Test Receiver	Rohde & Schwarz	ESI40	831564103	2012.05.26
<input checked="" type="checkbox"/> EMI Test Receiver	Rohde & Schwarz	ESCI	100584	2012.05.03
<input checked="" type="checkbox"/> LISN	Rohde & Schwarz	ESH3-Z5	100282	2013.02.03
<input checked="" type="checkbox"/> LISN	Rohde & Schwarz	ENV216	100073	2012.04.01
<input checked="" type="checkbox"/> Attenuator	Rohde & Schwarz	ESH3-Z2	357.8810.352	2012.08.01
<b><u>Radiated Emission</u></b>				
<input type="checkbox"/> EMI Test Receiver	Rohde & Schwarz	ESU26	100241	2012.08.02
<input checked="" type="checkbox"/> EMI Test Receiver	Rohde & Schwarz	ESI 40	831564103	2012.05.26
<input type="checkbox"/> Trilog Antenna	Schwarzbeck	VULB9160	3125	2013.05.03
<input checked="" type="checkbox"/> Trilog Antenna	Schwarzbeck	VULB9160	3301	2012.09.13
<input checked="" type="checkbox"/> Antenna master	HD GmbH	MA240	240/520	-
<input type="checkbox"/> Antenna master	INNCO Systems	MA4000-EP	MA4000/283	-
<input checked="" type="checkbox"/> Turn Table	HD GmbH	2090	9702/1224	-
<input type="checkbox"/> Turn Table	INNCO Systems	DT3000-3T	DT3000/69	-
<input type="checkbox"/> Antenna master controller	HD GmbH	HD100	100/637BJ:00	-
<input type="checkbox"/> Communication Antenna	Schwarzbeck	USLP9142	9142-248	-
<input checked="" type="checkbox"/> Horn Antenna	Schwarzbeck	BBHA 9120D	-	2012.04.13
<input checked="" type="checkbox"/> Power Amplifier	Rohde & Schwarz	SCU-18	10094	2012.09.19
<input type="checkbox"/> Power Amplifier	Rohde & Schwarz	CBL01188035-01	16074B	2012.04.28

## **7. CONCLUSION**

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The data collected shows that the **Cellular/PCS CDMA and LTE Phone with Bluetooth & WLAN, Model: VS840, FCC ID: ZNFVS840** complies with §15.107 and §15.109 of the FCC rules.