

EMI TEST REPORT

FCC CERTIFICATION / INDUSTRY CANADA

Applicant:

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

Date of Receipt: February 03, 2016

Date of Issue: February 19, 2016

Test Report No. HCT-E-1602-F028-1

HCT FRN: 0005866421

FCC ID :

ZNFVS500

Rule Part(s) / Standard(s): FCC CFR 47 PART 15 Subpart B Class B
ICES-003 Issue 5 Class B

FCC Classification: JBP (Part 15 B – Class B Computing Device Peripheral)

EUT Type: Multi-band CDMA/EVDO/GSM/EDGE/WCDMA/LTE phone
with WLAN and Bluetooth

IC: 2703C-VS500

Model Name: LG-VS500

Additional Model Name(s): LGVS500, VS500, LG-RS500, LGRS500, RS500

Test Port: Micro USB / Earphone Port

Date of Test: February 11, 2016- February 16, 2016

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



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Test Engineer
EMC Team
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Reviewed By



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DOCUMENT HISTORY

The revision history for this document is shown in table.

Version	Date	Description
HCT-E-1602-F028	February 18, 2016	Initial Release
HCT-E-1602-F028-1	February 19, 2016	Added the additional model names



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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-VS500
FCC ID	ZNFVS500
IC	2703C-VS500
Additional Model(s)	LGVS500, VS500, LG-RS500, LGRS500, RS500
EUT Type	Multi-band CDMA/EVDO/GSM/EDGE/WCDMA/LTE phone with WLAN and Bluetooth
TX Frequency	824.70 MHz to 848.31 MHz (CDMA BC0) 1 851.25 MHz to 1 908.75 MHz (CDMA BC1) 824.20 MHz to 848.80 MHz (GSM 850) 1 850.20 MHz to 1 909.80 MHz (GSM 1 900) 1 852.4 MHz to 1 907.6 MHz (WCDMA B2) 826.40 MHz to 846.60 MHz (WCDMA B5) 1 850.7 MHz to 1 909.3 MHz (LTE B2) 1 710 MHz to 1 755 MHz (LTE B4) 824 MHz to 849 MHz (LTE B5) 777 MHz to 787 MHz (LTE B13)
RX Frequency	869.70 MHz to 893.31 MHz (CDMA BC0) 1 931.25 MHz to 1 988.75 MHz (CDMA BC1) 869.20 MHz to 893.80 MHz (GSM 850) 1 930.20 MHz to 1 989.80 MHz (GSM 1 900) 1 932.4 MHz to 1 987.6 MHz (WCDMA B2) 871.40 MHz to 891.60 MHz (WCDMA B5) 1 930.00 MHz to 1 990.00MHz (LTE B2) 2 110 MHz to 2 155 MHz (LTE B4) 869 MHz to 894 MHz (LTE B5) 746 MHz to 756 MHz (LTE B13)



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.
HCT FRN: 0005866421 Radiated Field strength measurement facility (3 m)	90661 (February 28, 2014)
HCT FRN: 0005866421 Radiated Field strength measurement facility (10 m)	90661 (February 28, 2014)
COMPANY CODE: 5944A Filing the EMI Measurement Facility (3 m Semi Anechoic Chamber and Shielded Room)	IC 5944A-4 (August 20, 2014)
COMPANY CODE: 5944A Radiated Field Strength Measurement Facility (10 m Semi-Anechoic Chamber)	IC 5944A-2 (August 20, 2015)



1.4 Tested System Details

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

Device Type	Model Name	Manufacturer	FCC ID / IC / DoC	Connected To
EUT	LG-VS500	LG	ZNFVS500 2703C-VS500	Notebook PC, Earphone
USB cable	EAD62377906	Ningbo Broad	-	EUT, Notebook PC
USB cable	EAD62377907	KSD	-	EUT, Notebook PC
Earphone	EAB62950102	CRESYN	-	EUT
Notebook PC	ProBook6560b	HP	DoC	EUT, Notebook PC adaptor, RJ45 cable, Serial mouse
Notebook PC adaptor	PPP009D	DELTA Electronics (Jiangsu) LTD	-	Notebook PC
Gateway	TL-WR747N	TP-LINK	-	RJ45 cable, Gateway adaptor
Gateway adaptor	T120150-2H1	TP-LINK	-	Gateway
Serial mouse	Serial 2 button mouse	Radio shack	FSUGMZE3	Notebook PC
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)2.5
	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	Both 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

- 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(μV))	Average (dB(μV))
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 ($\mu\text{V}/\text{m}$)	Quasi-Peak ($\text{dB}(\mu\text{V})/\text{m}$)
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 ($\text{dB}(\mu\text{V})/\text{m}$)	Average ($\text{dB}(\mu\text{V})/\text{m}$)
Above 1 000	3	74	54

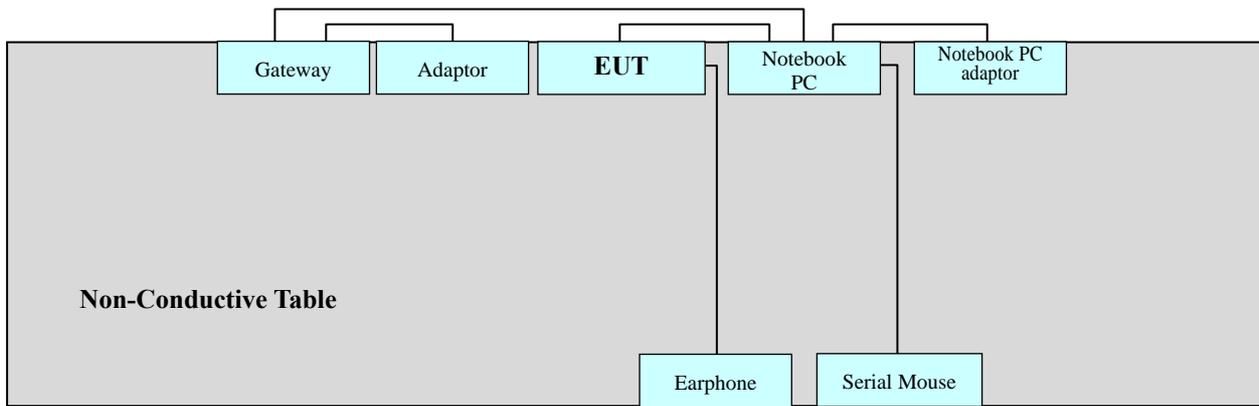


2.2.1 Frequency Range of Radiated Measurements

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:

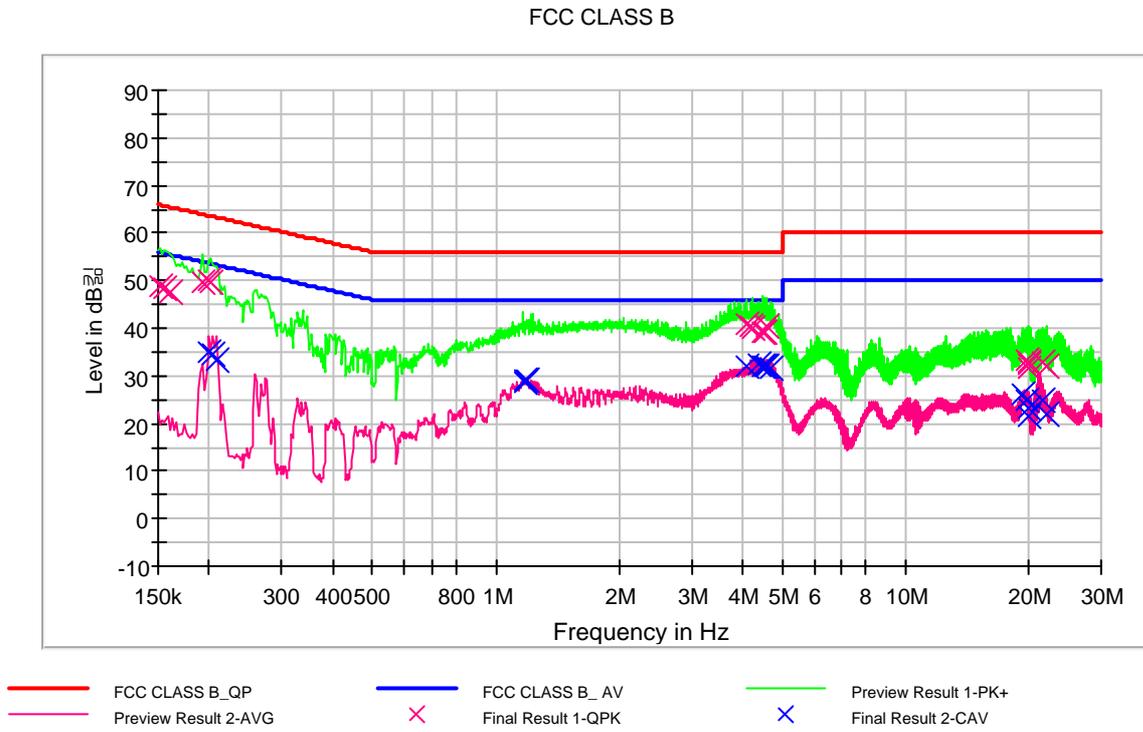
Rule Part / Standard	FCC PART 15 Subpart B Class B ICES-003 Issue 5 Class B
Detector	Quasi-Peak, CISPR-Average
Bandwidth	9 kHz (6 dB)
Operation Mode	Data Communication mode
USB Cable Type	Ningbo Broad (EAD62377906)
Kind of Test Site	Shielded Room
Temperature	20.6 °C
Relative Humidity	28.7 %
Test Date	February 16, 2016

- 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)
0.152000	49.0	9.000	L1	9.6	16.9	65.9
0.156000	48.3	9.000	L1	9.6	17.4	65.7
0.160000	47.6	9.000	L1	9.6	17.9	65.5
0.192000	49.5	9.000	L1	9.6	14.4	63.9
0.198000	50.0	9.000	L1	9.6	13.7	63.7
0.202000	49.6	9.000	L1	9.6	13.9	63.5
4.102000	40.8	9.000	L1	9.8	15.2	56.0
4.172000	40.5	9.000	L1	9.8	15.5	56.0
4.244000	40.2	9.000	L1	9.8	15.8	56.0
4.458000	39.2	9.000	L1	9.8	16.8	56.0
4.528000	39.3	9.000	L1	9.9	16.7	56.0
4.596000	40.3	9.000	L1	9.9	15.7	56.0
19.656000	33.4	9.000	L1	10.2	26.6	60.0
19.872000	32.8	9.000	L1	10.2	27.2	60.0
19.910000	31.6	9.000	L1	10.2	28.4	60.0
20.006000	32.5	9.000	L1	10.3	27.5	60.0
21.494000	33.0	9.000	L1	10.3	27.0	60.0
22.056000	31.9	9.000	L1	10.3	28.1	60.0

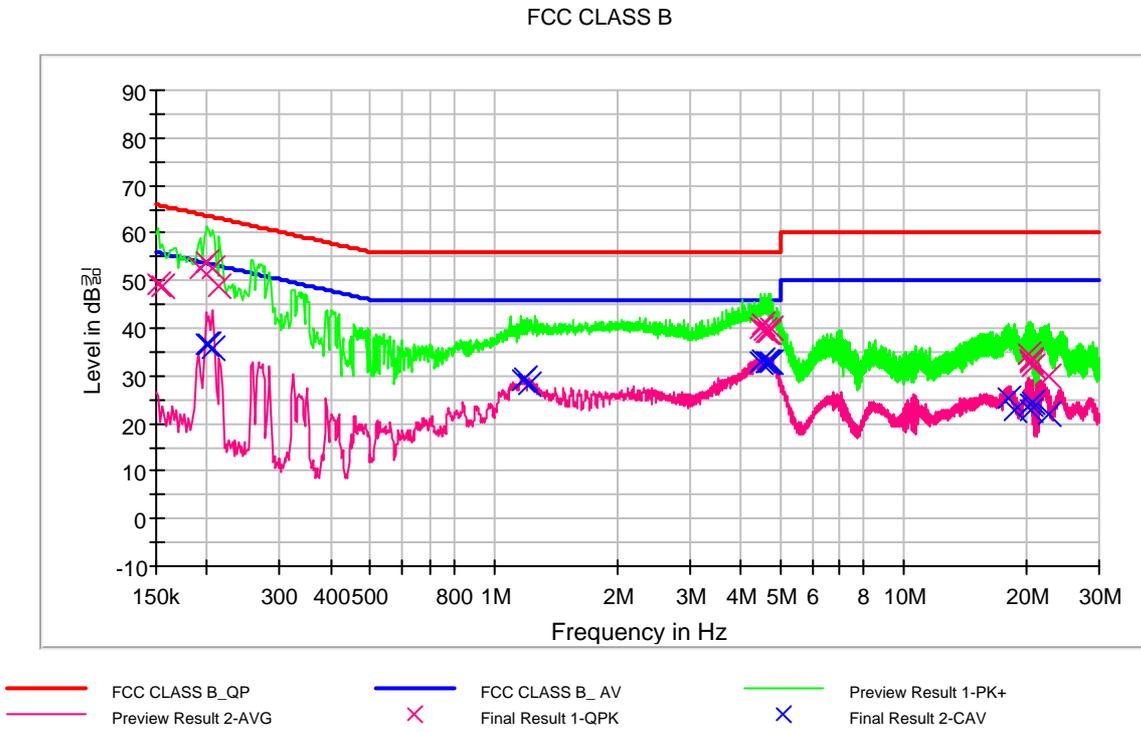


CAverage Final Result, Line (L1)

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.200000	35.2	9.000	L1	9.6	18.4	53.6
0.204000	34.7	9.000	L1	9.6	18.7	53.4
0.208000	33.3	9.000	L1	9.6	20.0	53.3
1.172000	29.0	9.000	L1	9.7	17.0	46.0
1.178000	28.8	9.000	L1	9.7	17.2	46.0
1.194000	29.1	9.000	L1	9.7	16.9	46.0
4.102000	31.9	9.000	L1	9.8	14.1	46.0
4.384000	32.3	9.000	L1	9.8	13.7	46.0
4.456000	32.2	9.000	L1	9.8	13.8	46.0
4.528000	31.9	9.000	L1	9.9	14.1	46.0
4.596000	32.1	9.000	L1	9.9	13.9	46.0
4.664000	31.7	9.000	L1	9.9	14.3	46.0
19.300000	26.0	9.000	L1	10.2	24.0	50.0
19.658000	24.9	9.000	L1	10.2	25.1	50.0
19.910000	23.4	9.000	L1	10.2	26.6	50.0
20.006000	21.7	9.000	L1	10.3	28.3	50.0
21.494000	24.9	9.000	L1	10.3	25.1	50.0
22.056000	22.0	9.000	L1	10.3	28.0	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)
0.152000	49.3	9.000	N	9.6	16.6	65.9
0.156000	48.8	9.000	N	9.6	16.9	65.7
0.192000	52.6	9.000	N	9.6	11.3	63.9
0.200000	53.7	9.000	N	9.6	9.9	63.6
0.206000	52.6	9.000	N	9.6	10.8	63.4
0.214000	49.0	9.000	N	9.6	14.0	63.0
4.460000	40.1	9.000	N	9.8	15.9	56.0
4.552000	40.7	9.000	N	9.8	15.3	56.0
4.602000	39.6	9.000	N	9.8	16.4	56.0
4.622000	39.3	9.000	N	9.8	16.7	56.0
4.674000	39.0	9.000	N	9.8	17.0	56.0
4.742000	40.1	9.000	N	9.8	15.9	56.0
20.170000	34.7	9.000	N	10.3	25.3	60.0
20.448000	33.3	9.000	N	10.3	26.7	60.0
20.452000	33.1	9.000	N	10.3	26.9	60.0
20.524000	32.7	9.000	N	10.3	27.3	60.0
20.662000	31.8	9.000	N	10.3	28.2	60.0
22.714000	29.9	9.000	N	10.3	30.1	60.0



CAverage Final Result, Line (N)

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.198000	36.8	9.000	N	9.6	16.9	53.7
0.202000	36.5	9.000	N	9.6	17.0	53.5
0.206000	35.7	9.000	N	9.6	17.7	53.4
1.176000	28.9	9.000	N	9.7	17.1	46.0
1.188000	29.4	9.000	N	9.7	16.6	46.0
1.212000	28.4	9.000	N	9.7	17.6	46.0
4.460000	33.0	9.000	N	9.8	13.0	46.0
4.552000	33.1	9.000	N	9.8	12.9	46.0
4.618000	32.8	9.000	N	9.8	13.2	46.0
4.622000	32.8	9.000	N	9.8	13.2	46.0
4.672000	32.8	9.000	N	9.8	13.2	46.0
4.742000	32.7	9.000	N	9.8	13.3	46.0
17.976000	25.3	9.000	N	10.2	24.7	50.0
18.684000	22.9	9.000	N	10.2	27.1	50.0
20.398000	22.7	9.000	N	10.3	27.3	50.0
20.524000	23.9	9.000	N	10.3	26.1	50.0
20.662000	24.3	9.000	N	10.3	25.7	50.0
22.714000	22.1	9.000	N	10.3	27.9	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 ICES-003 Issue 5 Class B
Detector	Quasi-Peak
Bandwidth	120 kHz (6 dB)
Operation Mode	Data Communication mode
USB Cable Type	Ningbo Broad (EAD62377906)
Kind of Test Site	3 m semi anechoic chamber
Temperature	20.5 °C
Relative Humidity	27.7 %
Test Date	February 11, 2016

Frequency (MHz)	Quasi Peak (dB μ V/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB μ V/m)
45.791102	28.4	100.0	V	69.0	15.8	11.6	40.0
84.788858	31.8	250.0	H	82.0	11.7	8.2	40.0
266.514309	32.5	125.0	H	66.0	16.9	13.5	46.0
600.003006	39.2	100.0	H	226.0	25.6	6.8	46.0
800.007014	38.7	102.0	H	219.0	28.4	7.3	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



-For Measurement Above 1 GHz

Rule Part / Standard	FCC PART 15 Subpart B Class B ICES-003 Issue 5 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	1.267 GHz
Testing Frequency Range	1 GHz to 6.5 GHz
Operation Mode	Data Communication mode
USB Cable Type	Ningbo Broad (EAD62377906)
Kind of Test Site	3 m semi anechoic chamber
Temperature	20.5 °C
Relative Humidity	27.7 %
Test Date	February 11, 2016

Frequency (MHz)	Peak (dB μ V/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB μ V/m)
1332.615231	49.5	100.0	V	126.0	-9.8	24.5	74.0
1400.050100	47.9	183.0	V	227.0	-9.6	26.1	74.0
1997.244489	53.9	100.0	V	232.0	-8.4	20.1	74.0
2033.717434	52.3	100.0	V	232.0	-8.3	21.7	74.0
2664.478958	49.3	100.0	V	218.0	-6.0	24.7	74.0

Frequency (MHz)	CAverage (dB μ V/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB μ V/m)
1332.615231	31.9	100.0	V	126.0	-9.8	22.1	54.0
1400.050100	44.4	183.0	V	227.0	-9.6	9.6	54.0
1997.244489	36.3	100.0	V	232.0	-8.4	17.7	54.0
2033.717434	35.5	100.0	V	232.0	-8.3	18.5	54.0
2664.478958	32.9	100.0	V	218.0	-6.0	21.1	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



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	12.28.2015
<input checked="" type="checkbox"/> LISN	Rohde & Schwarz	ESH3-Z5	100282	1 year	06.11.2015
<input checked="" type="checkbox"/> LISN	Rohde & Schwarz	ENV216	100073	1 year	12.28.2015
<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	06.05.2015
<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	07.06.2015
<input checked="" type="checkbox"/> Power Amplifier	CERNEX	CBLU5183530	24348	1 year	06.15.2015
<input checked="" type="checkbox"/> Horn Antenna	Schwarzbeck	BBHA 9120D	296	2 year	10.07.2014
<input type="checkbox"/> EMI Test Receiver	Rohde & Schwarz	ESU 26	100241	1 year	06.05.2015
<input type="checkbox"/> Turn Table	INNCO Systems	DT3000-3T	DT3000/69	N/A	-
<input checked="" type="checkbox"/> Software	Rohde & Schwarz	EMC32	-	-	-



6. CONCLUSION

The data collected shows that the **EUT Type: Multi-band CDMA/EVDO/GSM/EDGE/WCDMA /LTE phone with WLAN and Bluetooth, Model: LG-VS500, FCC ID: ZNFVS500** complies with §15.107 and §15.109 of the FCC rules and **IC: 2703C-VS500** complies with ICES-003 Issue 5 of the IC rules.