



# HCT CO., LTD.

## CERTIFICATE OF COMPLIANCE FCC Class II Permissive Change

**Applicant Name:**  
LG Electronics MobileComm U.S.A., Inc.

**Address:**  
1000 Sylvan Avenue, Englewood Cliffs NJ 07632

**Date of Issue:**  
May 08, 2014

**Test Site/Location:**  
HCT CO., LTD., 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Korea

**Report No.:** HCT-R-1404-F022-2

**HCT FRN:** 0005866421

**IC Recognition No.:** 5944A-3

<b>FCC ID</b>	<b>: ZNFV400</b>
<b>IC</b>	<b>: 2703C-V400</b>
<b>APPLICANT</b>	<b>: LG Electronics MobileComm U.S.A., Inc.</b>

**FCC/ IC Model(s):** LG-V400

**EUT Type:** 2.4/5GHz BT/WiFi Tablet

**Frequency Range:** 2402 MHz -2480 MHz(BT 4.0\_Low Energy Mode)

**Modulation type** GFSK

**FCC Classification:** Digital Transmission System(DTS)

**FCC Rule Part(s):** Part 15.247

**IC Rule :** RSS-210 Issue 8 , RSS-GEN Issue 3

**Engineering Statement:**

The measurements shown in this report were made in accordance with the procedures indicated, and the emissions from this equipment were found to be within the limits applicable. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them.

**HCT CO., LTD.** Certifies that no party to this application has subject to a denial of Federal benefits that includes FCC benefits pursuant to section 5301 of the Anti-Drug Abuse Act of 1998, 21 U.S.C. 853(a)

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<b>FCC PT.15.247 TEST REPORT</b>	<b>FCC Class II Permissive Change REPORT</b>			<a href="http://www.hct.co.kr">www.hct.co.kr</a>
<b>Test Report No.</b> HCT-R-1404-F022-2	<b>Date of Issue:</b> May 08, 2014	<b>EUT Type:</b> 2.4/5GHz BT/WiFi Tablet	<b>FCC ID:</b> ZNFV400	<b>IC:</b> 2703C-V400

# Version

TEST REPORT NO.	DATE	DESCRIPTION
HCT-R-1404-F022	April 28, 2014	- First Approval Report
HCT-R-1404-F022-1	May 07, 2014	<ul style="list-style-type: none"> <li>- Remove output power measurement data on page 1 and 3</li> <li>-Add note calibration status throughout the entire testing period.</li> <li>-Revised the comment for 6 dBi in Section 6.</li> <li>- Revised of the data table column header for section 8.1.1 and section 8.1.3</li> </ul>
HCT-R-1404-F022-2	May 08, 2014	- Revised the calibration note and equipment lists on page 20

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## 1. GENERAL INFORMATION

**Applicant:** LG Electronics MobileComm U.S.A., Inc.  
**Address:** 1000 Sylvan Avenue, Englewood Cliffs NJ 07632  
**FCC ID:** ZNFV400  
**IC:** 2703C-V400  
**EUT Type:** 2.4/5GHz BT/WiFi Tablet  
**FCC/ IC Model name(s):** LG-V400  
**Date(s) of Tests:** April 09, 2014 ~ April 15, 2014  
**Place of Tests:** HCT Co., Ltd.  
74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Korea  
(IC Recognition No. : 5944A-3)

## 2. EUT DESCRIPTION

<b>EUT Type</b>	2.4/5GHz BT/WiFi Tablet
<b>FCC/ IC Model Name</b>	LG-V400
<b>Power Supply</b>	DC 3.8 V
<b>Battery type</b>	Li-ion Battery(Standard)
<b>Frequency Range</b>	TX: 2402 MHz ~ 2480 MHz RX: 2402 MHz ~ 2480 MHz
<b>BT Operating Mode</b>	BT 4.0_Low Energy Mode
<b>Modulation Type</b>	GFSK
<b>Number of Channels</b>	40 Channels
<b>Antenna Specification</b>	Manufacturer: Ace Technology Antenna type: Planar Inverted F Antenna Peak Gain : 1.96 dBi

### 3. TEST METHODOLOGY

FCC KDB 558074 D01 DTS Meas Guidance v03r01 dated April 09, 2013 entitled "Guidance for Performing Compliance Measurements on Digital Transmission Systems(DTS) and the measurement procedure described in the American National Standard for Testing Unlicensed Wireless Devices(ANSI C63.4-2003) Operating Under §15.247" were used in the measurement.

#### 3.1 EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

#### 3.2 EUT EXERCISE

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. According to its specifications, the EUT must comply with the requirements of the Section 15.207, 15.209 and 15.247 under the FCC Rules Part 15 Subpart C.

#### 3.3 GENERAL TEST PROCEDURES

##### Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.4. (Version :2003) Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-peak and average detector modes.

##### Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3 m away from the receiving antenna, which varied from 1 m to 4 m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes according to the requirements in Section 13.1.4.1 of ANSI C63.4. (Version: 2003)

##### Conducted Antenna Terminal

See Section from 9.1 to 9.2.(KDB 558074)

#### 3.4 DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition. Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

Channel low, mid and high with highest data rate (worst case) is chosen for full testing.

<b>FCC PT.15.247 TEST REPORT</b>	<b>FCC Class II Permissive Change REPORT</b>			<a href="http://www.hct.co.kr">www.hct.co.kr</a>
<b>Test Report No.</b> HCT-R-1404-F022-2	<b>Date of Issue:</b> May 08, 2014	<b>EUT Type:</b> 2.4/5GHz BT/WiFi Tablet	<b>FCC ID:</b> ZNFV400	<b>IC:</b> 2703C-V400

## 4. INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipments, which is traceable to recognized national standards.

## 5. FACILITIES AND ACCREDITATIONS

### 5.1 FACILITIES

The SAC(Semi-Anechoic Chamber) and conducted measurement facility used to collect the radiated data are located at the 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Korea. The site is constructed in conformance with the requirements of ANSI C63.4. (Version :2003) and CISPR Publication 22. Detailed description of test facility was submitted to the Commission and accepted dated February 28, 2014 (Registration Number: 90661)

### 5.2 EQUIPMENT

Radiated emissions are measured with one or more of the following types of Linearly polarized antennas: tuned dipole, bi-conical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements. Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers. Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

## 6. ANTENNA REQUIREMENTS

### According to FCC 47 CFR §15.203, RSS-GEN 7.1.2

"An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section."

\* The antennas of this E.U.T are permanently attached.

\* The directional gain of this E.U.T antenna does not exceed 6 dBi

\* The E.U.T Complies with the requirement of §15.203, RSS-GEN 7.1.2

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## 7. SUMMARY TEST OF RESULTS

### 7.1 FCC Part

Test Description	IC Part Section(s)	FCC Part Section(s)	Test Limit	Test Condition	Test Result
Radiated Spurious Emissions	RSS-210 [A8.5]	§15.205, 15.209	cf. Section 8.7.1	RADIATED	PASS
Radiated Restricted Band Edge	RSS-210 [A8.5]	§15.247(d), 15.205, 15.209	cf. Section 8.7.3		PASS

### 7.2 IC Part

Test Description	IC Part Section(s)	FCC Part Section(s)	Test Limit	Test Condition	Test Result
Radiated Spurious Emissions	RSS-210 [A8.5]	§15.205, 15.209	cf. Section 8.7.1	RADIATED	PASS
Radiated Restricted Band Edge	RSS-210 [A8.5]	§15.247(d), 15.205, 15.209	cf. Section 8.7.3		PASS
Receiver Spurious Emissions	RSS-GEN, Section 7.2.3	§15.109	cf. Section 8.7.2		PASS

## 8. TEST RESULT

### 8.1 RADIATED MEASUREMENT.

#### 8.1.1 RADIATED SPURIOUS EMISSIONS.

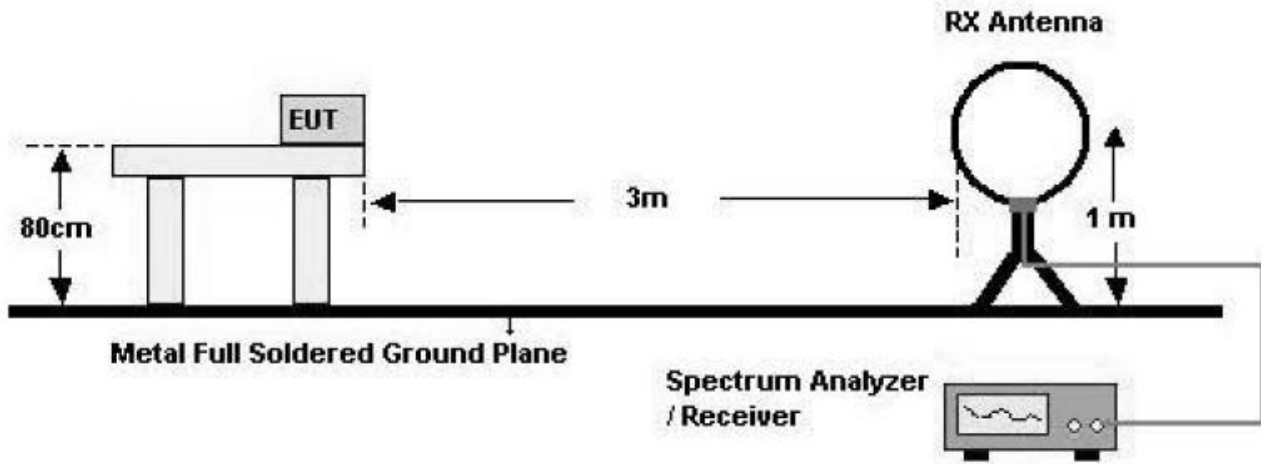
Test Requirements and limit, §15.205, §15.209

Frequency (MHz)	Field Strength (uV/m)	Measurement Distance (m)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

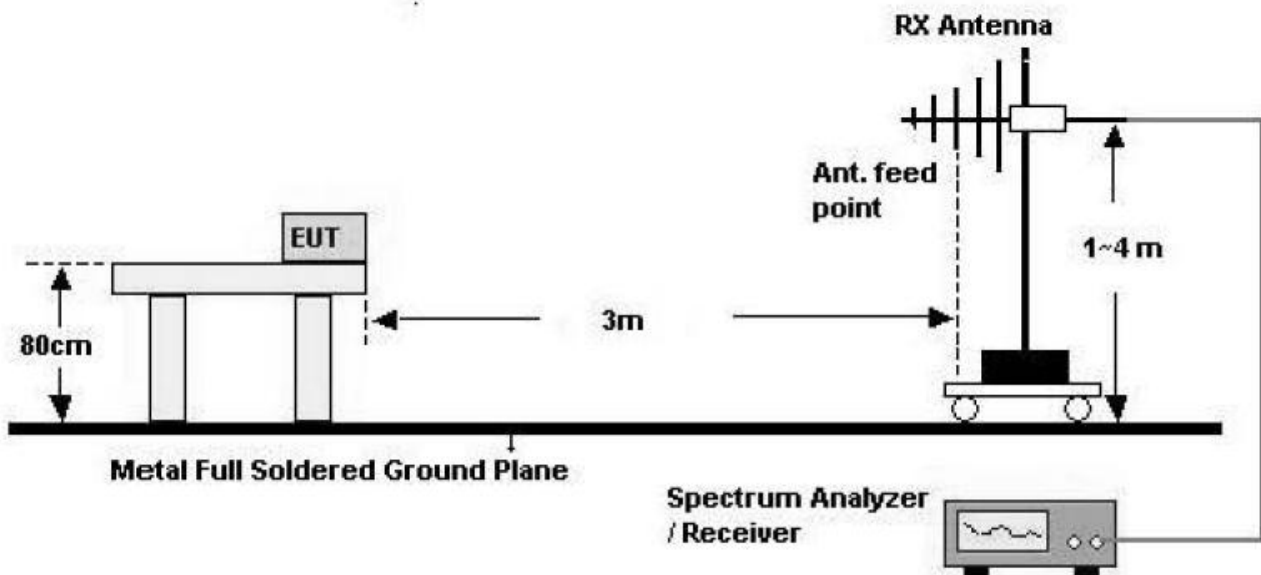


## Test Configuration

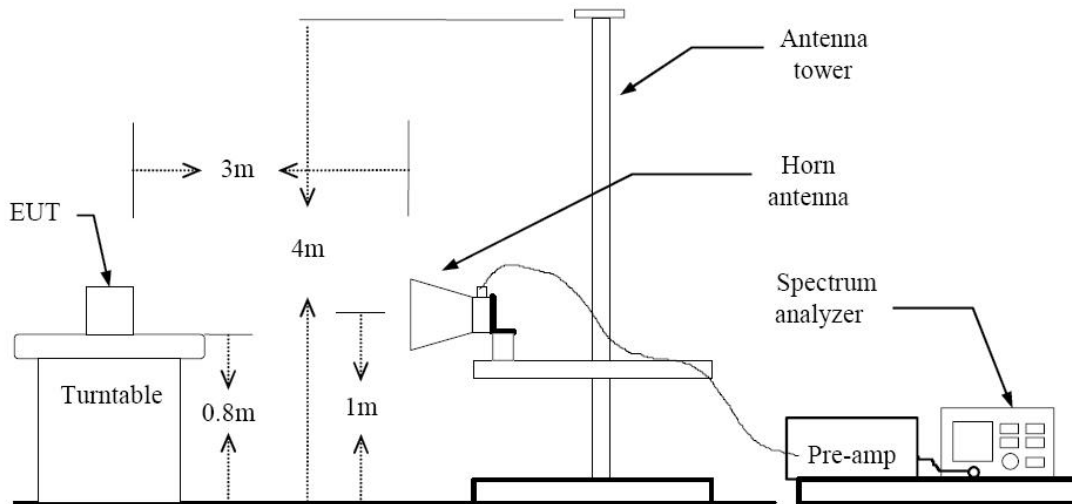
### Below 30 MHz



### 30 MHz - 1 GHz



## Above 1 GHz



### TEST PROCEDURE USED

Method 12.1 in KDB 558074, issued 04/09/2013

#### Spectrum Setting

- Peak

Peak emission levels are measured by setting the instrument as follows:

RBW = cf. Table 1.

VBW  $\geq 3 \times$  RBW.

Detector = Peak.

Sweep time = auto.

Trace mode = max hold.

Allow sweeps to continue until the trace stabilizes.

(Note that the required measurement time may be longer for low duty cycle applications).

**Table 1 —RBW as a function of frequency**

Frequency	RBW
9-150 kHz	200-300 Hz
0.15-30 MHz	9-10 kHz
30-1000 MHz	100-120 kHz
> 1000 MHz	1 MHz

- Average

Set RBW = 1 MHz

Set VBW  $\geq 1/T$ . ( at least 100 times less than the resolution bandwidth, but no less than 10 Hz.)

Select spectrum analyzer linear display mode.

Detector = Peak.

Sweep time = auto.

Trace mode = max hold.

Note :

1. We are performed the RSE and radiated band edge using standard radiated method.
2. The actual setting value of VBW for BT LE mode.

BT LE Mode	$T_{on}$ (ms)	$T_{total}$ (ms)	Duty Cycle (%)	VBW(1/T) (Hz)	The actual setting value of VBW (Hz)
	0.3904	0.6240	62.56	2561	3000

## TEST RESULTS

9 kHz – 30MHz

Operation Mode: Normal Mode

Frequency	Reading	Ant. factor	Cable loss	Ant. POL	Total	Limit	Margin
MHz	dBμV/m	dBm /m	dBm	(H/V)	dBμV/m	dBμV/m	dB
No Critical peaks found							

### Notes:

1. Measuring frequencies from 9 kHz to the 30MHz.
2. The reading of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.
3. Distance extrapolation factor = 40 log (specific distance / test distance) (dB)
4. Limit line = specific Limits (dBuV) + Distance extrapolation factor
5. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

## TEST RESULTS

### Below 1 GHz

**Operation Mode:** Normal Mode

Frequency	Reading	Ant. factor	Cable loss	Ant. POL	Total	Limit	Margin
MHz	dB $\mu$ V/m	dBm /m	dBm	(H/V)	dB $\mu$ V/m	dB $\mu$ V/m	dB
No Critical peaks found							

### Notes:

1. Measuring frequencies from 30 MHz to the 1 GHz.
2. Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Quasi peak detector mode.
3. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

## Above 1 GHz

**Operation Mode:** CH Low(LE Mode)

Frequency [MHz]	Reading [dBuV/m]	AN.+CL-AMP G [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
4804	49.17	-2.16	V	47.01	73.98	26.97	PK
4804	36.46	-2.16	V	34.30	53.98	19.68	AV
7206	45.11	7.31	V	52.42	73.98	21.56	PK
7206	33.11	7.31	V	40.42	53.98	13.56	AV
4804	48.97	-2.16	H	46.81	73.98	27.17	PK
4804	36.02	-2.16	H	33.86	53.98	20.12	AV
7206	45.52	7.31	H	52.83	73.98	21.15	PK
7206	32.78	7.31	H	40.09	53.98	13.89	AV

### Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

**Operation Mode: CH Mid(LE Mode)**

Frequency [MHz]	Reading [dBuV/m]	AN.+CL-AMP G [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
4880	48.58	-1.87	V	46.71	73.98	27.27	PK
4880	35.62	-1.87	V	33.75	53.98	20.23	AV
7320	45.86	7.35	V	53.21	73.98	20.77	PK
7320	32.68	7.35	V	40.03	53.98	13.95	AV
4880	48.68	-1.87	H	46.81	73.98	27.17	PK
4880	36.15	-1.87	H	34.28	53.98	19.70	AV
7320	45.85	7.35	H	53.20	73.98	20.78	PK
7320	32.81	7.35	H	40.16	53.98	13.82	AV

**Notes:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

**Operation Mode: CH High(LE Mode)**

Frequency [MHz]	Reading [dBuV/m]	AN.+CL-AMP G [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
4960	48.52	-1.84	V	46.68	73.98	27.30	PK
4960	35.97	-1.84	V	34.13	53.98	19.85	AV
7440	45.32	7.13	V	52.45	73.98	21.53	PK
7440	32.43	7.13	V	39.56	53.98	14.42	AV
4960	48.25	-1.84	H	46.41	73.98	27.57	PK
4960	35.92	-1.84	H	34.08	53.98	19.90	AV
7440	45.98	7.13	H	53.11	73.98	20.87	PK
7440	32.66	7.13	H	39.79	53.98	14.19	AV

**Notes:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.



## 8.1.2 RECEIVER SPURIOUS EMISSIONS

IC Rule(s) RSS-GEN  
 Test Requirements: Blow the table  
 Operating conditions: Under normal test conditions  
 Method of testing: Radiated

S/A. Settings: F < 1 GHz: RBW: 120 kHz, VBW: 300 kHz (Quasi Peak)  
 F > 1 GHz: RBW: 1 MHz, VBW: 1 MHz (Peak)  
 Mode of operation: Receive

Frequency (MHz)	Field Strength (microvolts/m at 3 meters)
30 – 88	100
88 - 216	150
216 – 960	200
Above 960	500

### Operation Mode: Receive:

30 MHz ~ 1 GHz

Frequency	Reading	Ant. factor	Cable loss	Ant. POL	Total	Limit	Margin
MHz	dB $\mu$ V	dB /m	dB	(H/V)	dB $\mu$ V/m	dB $\mu$ V/m	dB
No Critical peaks found							

Above 1 GHz

Frequency	Reading	Ant. factor	Cable loss	Ant. POL	Total	Limit	Margin
MHz	dB $\mu$ V	dB /m	dB	(H/V)	dB $\mu$ V/m	dB $\mu$ V/m	dB
No Critical peaks found							

### 8.1.3 RADIATED RESTRICTED BAND EDGES

#### Test Requirements and limit, §15.247(d) §15.205, §15.209

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in section 15.209(a) (See section 15.205(c)).

Operation Mode	BT 4.0_LE
Operating Frequency	2402 MHz
Channel No	0 Ch

Frequency [MHz]	Reading [dBuV/m]	A.F.+CL [dBm]	Ant. Pol. [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
2390.0	25.91	31.47	H	57.37	73.98	16.61	PK
2390.0	14.34	31.47	H	45.81	53.98	8.17	AV
2390.0	25.85	31.47	V	57.32	73.98	16.66	PK
2390.0	14.12	31.47	V	45.59	53.98	8.39	AV

#### Notes:

1. Frequency range of measurement = 2310 MHz ~ 2390 MHz
2. Total = Reading Value + Antenna Factor + Cable Loss
3. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
4. The radiated restricted band edge measurements are measured with a spectrum analyzer connected to the receive antenna while the EUT is transmitting.

Operation Mode BT 4.0\_LE

Operating Frequency 2480 MHz

Channel No 39 Ch

Frequency [MHz]	Reading [dBuV/m]	A.F.+CL [dBm]	Ant. Pol. [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
2483.5	27.12	31.46	H	58.58	73.98	15.40	PK
2483.5	14.51	31.46	H	45.97	53.98	8.01	AV
2483.5	26.66	31.46	V	58.12	73.98	15.86	PK
2483.5	14.33	31.46	V	45.79	53.98	8.19	AV

#### Notes:

1. Frequency range of measurement = 2483.5 MHz ~ 2500 MHz
2. Total = Reading Value + Antenna Factor + Cable Loss
3. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
4. The radiated restricted band edge measurements are measured with a spectrum analyzer connected to the receive antenna while the EUT is transmitting.

## 9. LIST OF TEST EQUIPMENT

### 9.1 LIST OF TEST EQUIPMENT(Radiated Test)

Manufacturer	Model / Equipment	Calibration Date	Calibration Interval	Calibration Due	Serial No.
Schwarzbeck	VULB 9160/ TRILOG Antenna	12/17/2012	Biennial	12/17/2014	3150
Rohde & Schwarz	ESCI / EMI TEST RECEIVER	01/24/2014	Annual	01/24/2015	100584
HD	MA240/ Antenna Position Tower	N/A	N/A	N/A	556
EMCO	1050/ Turn Table	N/A	N/A	N/A	114
HD GmbH	HD 100/ Controller	N/A	N/A	N/A	13
HD GmbH	KMS 560/ SlideBar	N/A	N/A	N/A	12
Rohde & Schwarz	SCU-18/ Signal Conditioning Unit	09/10/2013	Annual	09/10/2014	10094
CERNEX	CBL18265035 / POWER AMP	07/24/2013	Annual	07/24/2014	22966
CERNEX	CBL26405040 / POWER AMP	04/04/2014	Annual	04/04/2015	19660
Schwarzbeck	BBHA 9120D/ Horn Antenna	07/05/2013	Biennial	07/05/2015	1151
Schwarzbeck	BBHA9170 / Horn Antenna(15 GHz ~ 40 GHz)	10/30/2012	Biennial	10/30/2014	BBHA9170124
Rohde & Schwarz	FSP / Spectrum Analyzer	01/24/2014	Annual	01/24/2015	839117/011
Wainwright Instrument	WHF3.0/18G-10EF / High Pass Filter	02/03/2014	Annual	02/03/2015	F6
Wainwright Instrument	WHNX6.0/26.5G-6SS / High Pass Filter	04/09/2014	Annual	04/09/2015	1
Wainwright Instrument	WHNX7.0/18G-8SS / High Pass Filter	04/04/2014	Annual	04/04/2015	29
Wainwright Instrument	WRCJ2400/2483.5-2370/2520-60/14SS / Band Reject Filter	06/24/2013	Annual	06/24/2014	1
TESCOM	TC-3000C / BLUETOOTH TESTER	04/11/2014	Annual	04/11/2015	3000C000276
Rohde & Schwarz	CBT / BLUETOOTH TESTER	04/25/2013	Annual	04/25/2014	100422
Rohde & Schwarz	LOOP ANTENNA	08/14/2012	Biennial	08/14/2014	100179
CERNEX	CBL06185030 / POWER AMP	07/24/2013	Annual	07/24/2014	22965
CERNEX	CBLU1183540 / POWER AMP	07/24/2013	Annual	07/24/2014	22964

note : This equipment (WHNX6.0/26.5G-6SS / High Pass Filter) is used after 04/10/2014

and actual calibration date is 04/09/2014

This equipment (TC-3000C / BLUETOOTH TESTER) is used after 04/11/2014

and actual calibration date is 04/11/2014