

Report No.: FR441502B

FCC RF Test Report

APPLICANT : CT Asia EQUIPMENT : Tablet PC

BRAND NAME : BLU

MODEL NAME : Touch Book 7.0 3G FCC ID : YHLBLUTB703G

STANDARD : FCC Part 15 Subpart C §15.247

CLASSIFICATION : (DTS) Digital Transmission System

The product was received on Apr. 15, 2014 and testing was completed on May 05, 2014. We, SPORTON INTERNATIONAL (SHENZHEN) INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures and the testing has shown the tested sample to be in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL (SHENZHEN) INC., the test report shall not be reproduced except in full.

Reviewed by: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager

SPORTON INTERNATIONAL (SHENZHEN) INC.

No. 3 Building, the third floor of south, Shahe River west, Fengzeyuan warehouse, Nanshan District, Shenzhen, Guangdong, P.R.C.

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Testing Laboratory

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR441502B	Rev. 01	Initial issue of report	May 13, 2014

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SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.247(a)(2)	6dB Bandwidth	≥ 0.5MHz	Pass	-
3.2	15.247(b)(1)	Peak Output Power	≤ 30dBm	Pass	-
3.3	15.247(e)	Power Spectral Density	≤ 8dBm	Pass	-
3.4	15.247(d)	Conducted Band Edges and Spurious Emission	≤ 20dBc	Pass	-
3.5	15.247(d)	Radiated Band Edges and Spurious Emission	15.209(a) & 15.247(d)	Pass	Under limit 4.32 dB at 34.850 MHz
3.6	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 9.32 dB at 0.490 MHz
3.7	15.203 & 15.247(b)	Antenna Requirement	N/A	Pass	-

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1 General Description

1.1 Applicant

CT Asia

Unit 01, 15/F, Seaview Centre, 139-141 Hoi bun road, Kwun Tong, Kowloon, Hongkong

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1.2 Manufacturer

Nanjing Wanlida Technology Co., Ltd.

NanjingWanlida Industrial Zone, Zhang Zhou

1.3 Feature of Equipment Under Test

Product Feature				
Equipment	Tablet PC			
Brand Name	BLU			
Model Name	Touch Book 7.0 3G			
FCC ID	YHLBLUTB703G			
EUT supports Radios application	GSM/GPRS/WCDMA/HSPA/HSPA+(Downlink Only)/ WLAN 2.4GHz 802. 11b/g/n HT20/HT40/ Bluetooth v3.0 + EDR/Bluetooth v4.0 LE			
HW Version	V2.0			
SW Version	BLU_P-200L_V01_GENERIC_04-04-2014-1200			
EUT Stage	Identical Prototype			

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Product Specification of Equipment Under Test

Product Specification subjective to this standard				
Tx/Rx Frequency Range	2402 MHz ~ 2480 MHz			
Number of Channels	40			
Carrier Frequency of Each Channel	40 Channel(37 hopping + 3 advertising channel)			
Maximum Output Power to Antenna	-2.57 dBm (0.00055 W)			
Antenna Type	PIFA Antenna with gain -2.50 dBi			
Type of Modulation	Bluetooth v4.0 LE : GFSK			

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1.5 **Modification of EUT**

No modifications are made to the EUT during all test items.

1.6 **Testing Site**

Test Site	SPORTON INTERNATIONAL (SHENZHEN) INC.			
Test Site Location	No. 3 Building, the third floor of south, Shahe River west, Fengzeyuan warehouse, Nanshan District, Shenzhen, Guangdong, P.R.C.			
	TEL: +86-755-3320-2398			
Test Site No.	Sport	on Site No.	FCC Registration No.	
iest site NO.	TH01-SZ	03CH01-SZ	831040	

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Test Site	SPORTON INTERNATIONAL (KUNSHAN) INC.		
	No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P.R.C.		
Test Site Location	TEL: +86-0512-5790-0158		
	FAX: +86-0512-5790-0958		
Took Cita No	Sporton Site No.	FCC Registration No.	
Test Site No.	CO01-KS	149928	

Note: The test site complies with ANSI C63.4 2003 requirement.

Applicable Standards 1.7

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15 Subpart C §15.247
- FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r01
- ANSI C63.4-2003

Remark:

- All test items were verified and recorded according to the standards and without any deviation during the test.
- 2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

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2 Test Configuration of Equipment Under Test

2.1 Descriptions of Test Mode

The RF output power was recorded in the following table:

	· ·	-
		Bluetooth v4.0 LE RF Output Power
Channal	Frequency	Data Rate / Modulation
Channel		GFSK
		1Mbps
Ch00	2402MHz	-2.72 dBm
Ch19	2440MHz	-2.66 dBm
Ch39	2480MHz	-2.57 dBm

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction (150 kHz to 30 MHz), radiation (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). Pre-scanned tests, X, Y, Z in three orthogonal panels to determine the final configuration (X plane as worst plane) from all possible combinations.
- b. AC power line Conducted Emission was tested under maximum output power.

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2.2 Test Mode

The following summary table is showing all test modes to demonstrate in compliance with the standard.

	Summary table of Test Cases					
Test Item	Data Rate / Modulation					
rest item	Bluetooth v4.0 LE / GFSK					
Conducted	Mode 1: Bluetooth Tx CH00_2402 MHz_1Mbps					
	Mode 2: Bluetooth Tx CH19_2440 MHz_1Mbps					
TCs	Mode 3: Bluetooth Tx CH39_2480 MHz_1Mbps					
Radiated	Mode 1: Bluetooth Tx CH00_2402 MHz_1Mbps					
	Mode 2: Bluetooth Tx CH19_2440 MHz_1Mbps					
TCs	Mode 3: Bluetooth Tx CH39_2480 MHz_1Mbps					
AC	Made 1: CSM950 Idle + Plusteeth Link + W/ AN Link + LISP Cable (Charging from					
Conducted	Mode 1: GSM850 Idle + Bluetooth Link + WLAN Link + USB Cable (Charging from					
Emission	Adapter) + Earphone					
Remark: For ra	adiated test cases, the tests were performed with adapter, earphone, and USB cable.					

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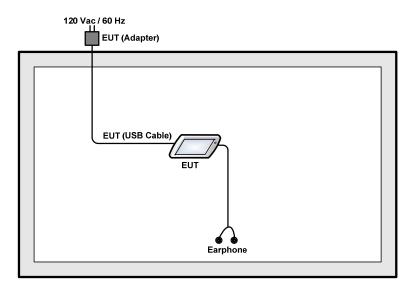
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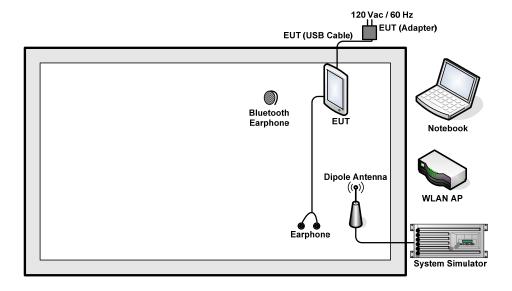


2.3 Connection Diagram of Test System

<Bluetooth v4.0 LE Tx Mode>



<AC Conducted Emission Mode>



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2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m
2.	WLAN AP	D-Link	DIR-855	KA2DIR855A2	N/A	Unshielded, 1.8 m
	Notebook	tebook Lenovo	G480	FCC DoC	N/A	AC I/P:
3.						Unshielded, 1.2 m
Э.						DC O/P:
						Shielded, 1.8 m
4.	Bluetooth Earphone	Nokia	BH-106	QTLBH-106	N/A	N/A
5.	Earphone	Lenovo	SH100	FCC DoC	Unshielded, 1.2 m	N/A

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2.5 EUT Operation Test Setup

For Bluetooth v4.0 LE function, the engineering test program was provided and enabled to make EUT continuous transmit/receive.

For AC power line conducted emissions, the EUT was set to connect with the WLAN AP under large package sizes transmission.

2.6 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

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Example:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 7.5 dB and 10dB attenuator.

Offset (dB) = RF cable loss (dB) + attenuator factor (dB). = 7.5 + 10 = 17.5 (dB)



3 Test Result

3.1 6dB Bandwidth Measurement

3.1.1 Limit of 6dB Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

3.1.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.1.3 Test Procedures

- 1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r01.
- 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6 dB bandwidth must be greater than 500 kHz.
- 5. Measure and record the results in the test report.

3.1.4 Test Setup



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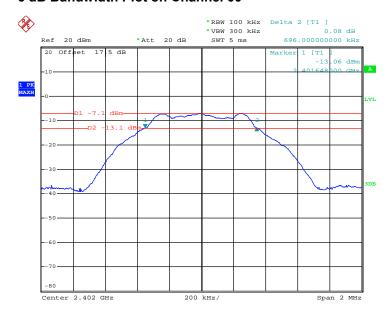


3.1.5 Test Result of 6dB Bandwidth

Test Mode :	Bluetooth v4.0 LE	Temperature :	24~26 ℃
Test Engineer :	Blithe Li	Relative Humidity :	50~53%

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	6dB Bandwidth Min. Limit (MHz)	Pass/Fail
00	2402	0.696	0.5	Pass
19	2440	0.704	0.5	Pass
39	2480	0.702	0.5	Pass

6 dB Bandwidth Plot on Channel 00



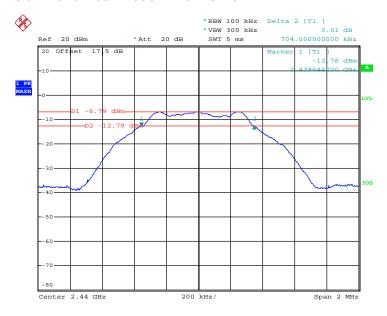
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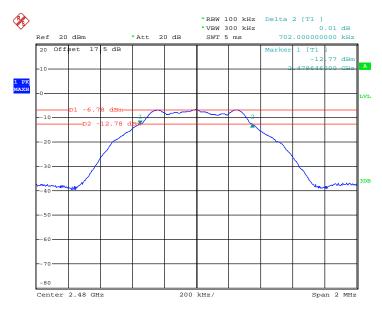
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6 dB Bandwidth Plot on Channel 19



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6 dB Bandwidth Plot on Channel 39



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3.2 Peak Output Power Measurement

3.2.1 Limit of Peak Output Power

For systems using digital modulation in the 2400-2483.5MHz, the limit for peak output power is 30dBm. If transmitting antenna of directional gain greater than 6dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

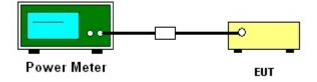
3.2.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.2.3 Test Procedures

- The testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas. Guidance v03r01.
- 2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Measure the conducted output power and record the results in the test report.

3.2.4 Test Setup



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3.2.5 Test Result of Peak Output Power

Test Mode :	Bluetooth v4.0 LE	Temperature :	24~26 ℃
Test Engineer :	Blithe Li	Relative Humidity :	50~53%

Eroguana		RF Power (dBm)					
Channel	Frequency (MHz)	GFSK	Max. Limits	Pass/Fail			
	(WITZ)	1 Mbps	(dBm)	Fa55/Fall			
00	2402	-2.72	30.00	Pass			
19	2440	-2.66	30.00	Pass			
39	2480	-2.57	30.00	Pass			

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3.3 **Power Spectral Density Measurement**

3.3.1 **Limit of Power Spectral Density**

The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.

3.3.2 **Measuring Instruments**

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.3.3 **Test Procedures**

- The testing follows Measurement Procedure 10.2 Method PKPSD of FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r01
- 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth VBW = 10 kHz In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW)
- Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully 5. stabilize. Use the peak marker function to determine the maximum power level.
- 6. Measure and record the results in the test report.
- 7. The Measured power density (dBm)/ 100kHz is a reference level and used as 20dBc down limit line for Conducted Band Edges and Conducted Spurious Emission.

3.3.4 Test Setup



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3.3.5 Test Result of Power Spectral Density

Test Mode :	Bluetooth v4.0 LE	Temperature :	24~26 ℃
Test Engineer :	Blithe Li	Relative Humidity :	50~53%

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Channal	Frequency	Power	Density	Max. Limits	Dage/Fail
Channel	(MHz)	PSD/100kHz (dBm)	PSD/3kHz (dBm)	(dBm/3kHz)	Pass/Fail
00	2402	-7.10	-21.54	8	Pass
19	2440	-6.78	-21.26	8	Pass
39	2480	-6.80	-21.29	8	Pass

Note:

- 1. Measured power density (dBm) has offset with cable loss.
- The Measured power density (dBm)/ 100kHz is reference level and used as 20dBc down for Conducted Band Edges and Conducted Spurious Emission limit line.

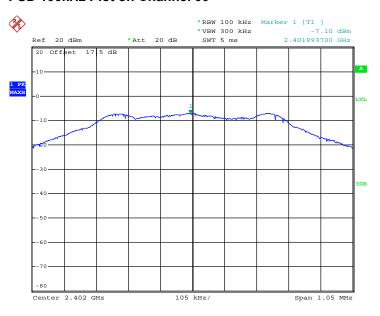
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3.3.6 Test Result of Power Spectral Density Plots (100kHz)

PSD 100kHz Plot on Channel 00

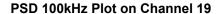


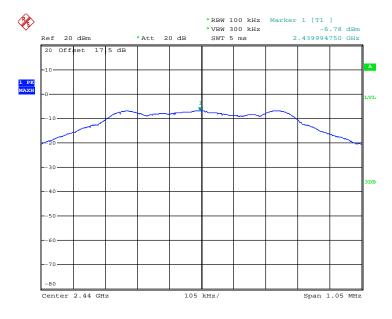
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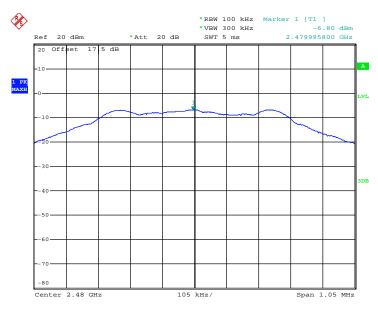
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PSD 100kHz Plot on Channel 39



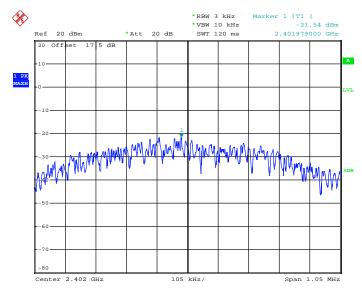
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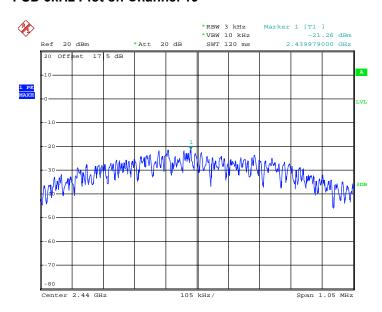
3.3.7 Test Result of Power Spectral Density Plots (3kHz)

PSD 3kHz Plot on Channel 00



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PSD 3kHz Plot on Channel 19



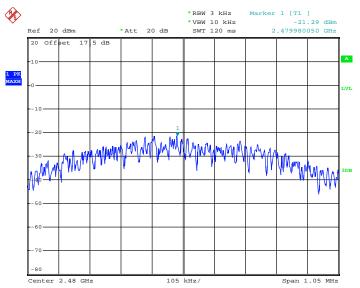
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PSD 3kHz Plot on Channel 39



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3.4 **Conducted Band Edges and Spurious Emission Measurement**

3.4.1 **Limit of Conducted Band Edges and Spurious Emission**

All harmonics/spurious must be at least 20 dB down from the highest emission level within the authorized band.

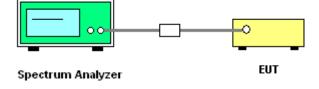
3.4.2 **Measuring Instruments**

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.4.3 Test Procedure

- 1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r01.
- 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d).
- 5. Measure and record the results in the test report.
- 6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

3.4.4 Test Setup



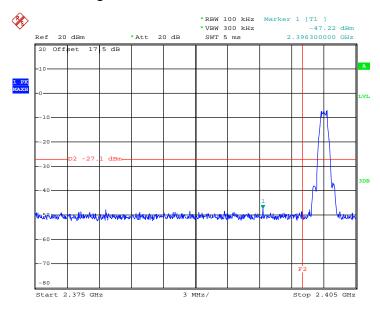
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3.4.5 Test Result of Conducted Band Edges

Test Mode :	Bluetooth v4.0 LE	Temperature :	24~26 ℃
Test Channel :	00 and 39	Relative Humidity :	50~53%
		Test Engineer :	Blithe Li

Low Band Edge Plot on Channel 00

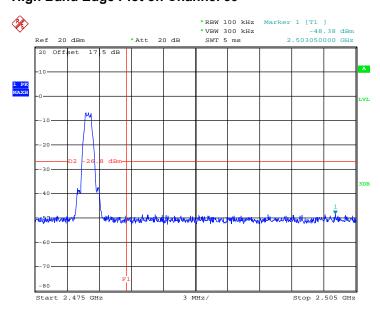


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High Band Edge Plot on Channel 39



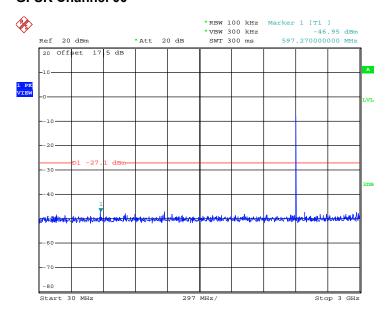
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3.4.6 Test Result of Conducted Spurious Emission

Test Mode :	Bluetooth v4.0 LE	Temperature :	24~26 ℃
Test Channel :	00	Relative Humidity :	50~53%
		Test Engineer :	Blithe Li

Conducted Spurious Emission Plot on Bluetooth LE 1Mbps GFSK Channel 00

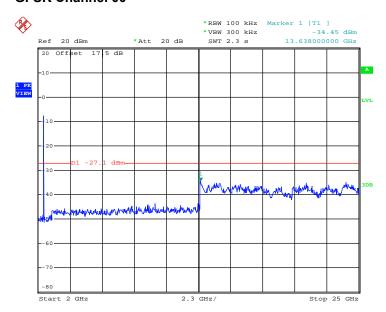


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Conducted Spurious Emission Plot on Bluetooth LE 1Mbps GFSK Channel 00



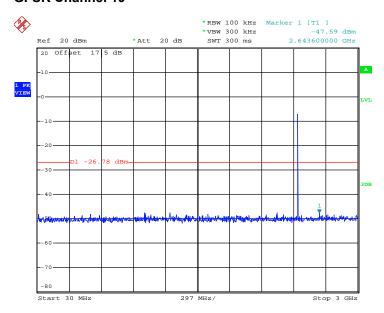
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FCC RF Test Report

Test Mode :	Bluetooth v4.0 LE	Temperature :	24~26 ℃
Test Channel :	19	Relative Humidity :	50~53%
		Test Engineer :	Blithe Li

Conducted Spurious Emission Plot on Bluetooth LE 1Mbps GFSK Channel 19

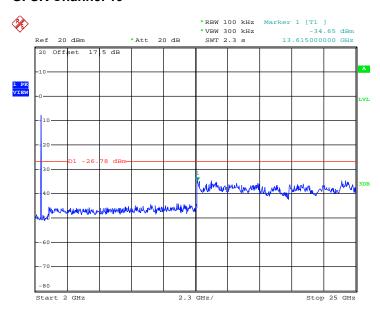


Date: 30.APR.2014 11:23:51

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Conducted Spurious Emission Plot on Bluetooth LE 1Mbps GFSK Channel 19



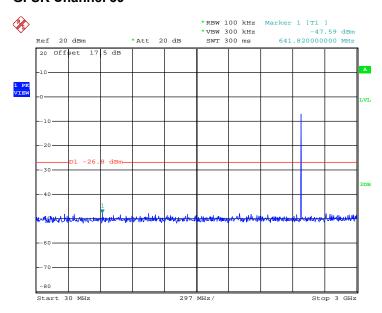
Date: 30.APR.2014 11:24:09

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Test Mode :	Bluetooth v4.0 LE	Temperature :	24~26℃
Test Channel :	39	Relative Humidity :	50~53%
		Test Engineer :	Blithe Li

Conducted Spurious Emission Plot on Bluetooth LE 1Mbps GFSK Channel 39

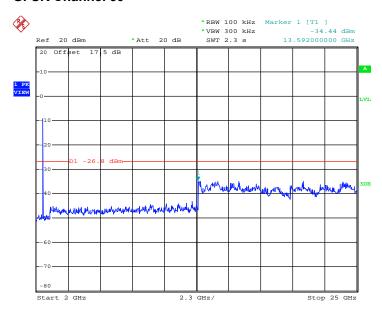


Date: 30.APR.2014 11:27:56

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Conducted Spurious Emission Plot on Bluetooth LE 1Mbps GFSK Channel 39



Date: 30.APR.2014 11:28:15

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3.5 Radiated Band Edges and Spurious Emission Measurement

3.5.1 Limit of Radiated Band Edges and Spurious Emission

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device was measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the FCC section 15.209 limits as below.

Frequency	Field Strength	Measurement Distance		
(MHz)	(microvolts/meter)	(meters)		
0.009 - 0.490	2400/F(kHz)	300		
0.490 – 1.705	24000/F(kHz)	30		
1.705 – 30.0	30	30		
30 – 88	100	3		
88 – 216	150	3		
216 - 960	200	3		
Above 960	500	3		

3.5.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

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3.5.3 Test Procedures

- 1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r01.
- 2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.

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- 3. The EUT was placed on a turntable with 0.8 meter above ground.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 5. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor = Level
- 6. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
- 7. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW=100 kHz for f < 1 GHz; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW= 3MHz for $f \ge 1$ GHz for peak measurement. For average measurement:
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

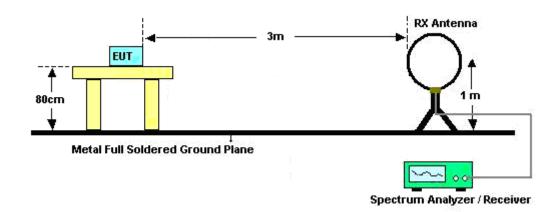
Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting	
Bluetooth v4.0 LE	59.49	0.38	2.66	3kHz	

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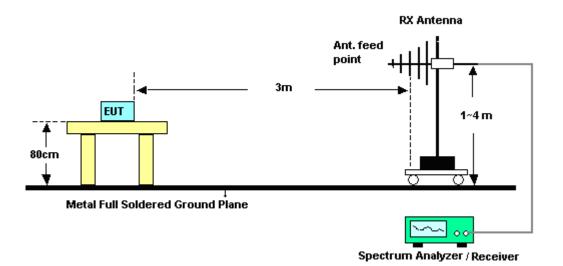


3.5.4 Test Setup

For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



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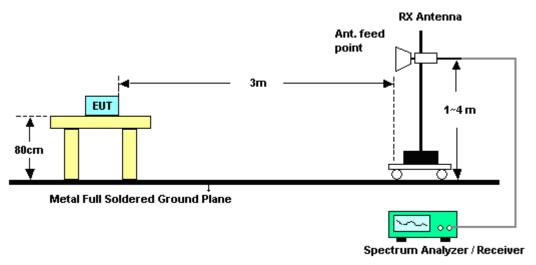
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For radiated emissions above 1GHz



3.5.5 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.

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3.5.6 Test Result of Radiated Spurious at Band Edges

Test Mode :	Mode 1	Temperature :	23~25°C
Test Channel :	00	Relative Humidity :	48~52%
		Test Engineer :	Kaer Huang

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	ANTENNA POLARITY : HORIZONTAL									
Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	(dBµV /m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2364.9	50.91	-23.09	74	41.25	31.81	5.59	27.74	100	234	Peak
2383.17	40.84	-13.16	54	31.09	31.9	5.59	27.74	100	234	Average

	ANTENNA POLARITY : VERTICAL												
Frequency	ency Level Over Limit Read Antenna Cable Preamp Ant Table Remark												
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos				
(MHz)	(dBµV /m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)				
2339.7	50.99	-23.01	74	41.47	31.72	5.56	27.76	155	252	Peak			
2379.12	40.68	-13.32	54	30.93	31.9	5.59	27.74	155	252	Average			

Test Mode :	Mode 3	Temperature :	23~25°C
Test Channel :	39	Relative Humidity :	48~52%
		Test Engineer :	Kaer Huang

	ANTENNA POLARITY : HORIZONTAL												
Frequency	quency Level Over Limit Read Antenna Cable Preamp Ant Table Remark												
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos				
(MHz)	(dBµV /m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)				
2499.67	52.37	-21.63	74	41.78	32.5	5.74	27.65	100	240	Peak			
2495.41	41.37	-12.63	54	30.78	32.5	5.74	27.65	100	240	Average			

	ANTENNA POLARITY : VERTICAL												
Frequency	requency Level Over Limit Read Antenna Cable Preamp Ant Table Remai												
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos				
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)				
2485.81	51.63	-22.37	74	41.18	32.41	5.71	27.67	100	250	Peak			
2495.38	41.28	-12.72	54	30.69	32.5	5.74	27.65	100	250	Average			

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3.5.7 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic)

Note: Pre-scanned all test modes and only choose the worst case mode recorded in the test report for radiated spurious emission below 1GHz.

Test Mode :	Mod	le 1	Temperature :	23~25°C
Test Channel :	00		Relative Humidity :	48~52%
Test Engineer :	Kae	r Huang	Polarization :	Horizontal
	1.	2402 MHz is fundamer	ntal signal which can b	e ignored.
Remark :	2.	Average measuremen	t was not performed if	peak level went lower than the
		average limit.		

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2402	88.71	-	-	78.83	31.98	5.62	27.72	100	234	Peak
2402	87.8	-	-	77.92	31.98	5.62	27.72	100	234	Average
4804	28.41	-45.59	74	43.59	33.78	8.33	57.29	148	300	Peak

Note: Other harmonics are lower than background noise.

Test Mode :	Mode 1	Temperature :	23~25°C
Test Channel :	00	Relative Humidity :	48~52%
Test Engineer :	Kaer Huang	Polarization :	Vertical
	1. 2402 MHz is fundament	al signal which can be	ignored.
Remark :	2. Average measurement	was not performed if	peak level went lower than the
	average limit.		

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2402	87.14	-	-	77.26	31.98	5.62	27.72	155	252	Peak
2402	86.49	-	-	76.61	31.98	5.62	27.72	155	252	Average
4804	28.66	-45.34	74	43.84	33.78	8.33	57.29	148	300	Peak

Note: Other harmonics are lower than background noise.

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Test Mode :	Mode 2	Temperature :	23~25°C
Test Channel :	19	Relative Humidity :	48~52%
Test Engineer :	Kaer Huang	Polarization :	Horizontal
	1. 2440 MHz is fundament	al signal which can be	ignored.
Remark :	2. Average measurement	was not performed if	peak level went lower than the
	average limit.		

Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2440	89.15	-	-	78.97	32.24	5.65	27.71	100	235	Peak
2440	88.09	-	-	77.91	32.24	5.65	27.71	100	235	Average
4880	30.44	-43.56	74	45.27	33.93	8.41	57.17	112	207	Peak
7320	34.1	-39.9	74	47.34	33.9	10	57.14	184	225	Peak

Note: Other harmonics are lower than background noise.

Test Mode :	Mode 2	Temperature :	23~25°C				
Test Channel :	19	Relative Humidity :	48~52%				
Test Engineer :	Kaer Huang	Polarization :	Vertical				
	1. 2440 MHz is fundament	2440 MHz is fundamental signal which can be ignored.					
Remark :	2. Average measurement	was not performed if	peak level went lower than the				
	average limit.						

Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable	Preamp Factor	Ant Pos	Table Pos	Remark
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2440	87.35	-	-	77.17	32.24	5.65	27.71	154	270	Peak
2440	86.67	-	-	76.49	32.24	5.65	27.71	154	270	Average
4880	28.38	-45.62	74	43.21	33.93	8.41	57.17	112	207	Peak
7320	34.24	-39.76	74	47.48	33.9	10	57.14	184	225	Peak

Note: Other harmonics are lower than background noise.

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Test Mode :	Mode 3	Temperature :	23~25°C				
Test Channel :	39	Relative Humidity :	48~52%				
Test Engineer :	Kaer Huang	Polarization :	Horizontal				
	 2480 MHz is fundamental signal which can be ignored. Average measurement was not performed if peak level went lower than 						
Remark :							
	average limit.						

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
(MHz)	(dBµV/m)	Limit (dB)	Line (dBµV/m)	Level (dBµV)	Factor (dB)	Loss (dB)	Factor (dB)	Pos (cm)	Pos (deg)	
34.85	23.7	-16.3	40	36.72	16.1	0.81	29.93	200	0	Peak
156.1	25.91	-17.59	43.5	45.11	9.22	1.52	29.94	-	-	Peak
326.82	24.14	-21.86	46	37.99	13.99	2.09	29.93	-	-	Peak
441.28	25.3	-20.7	46	37.01	15.82	2.39	29.92	-	-	Peak
660.5	23.11	-22.89	46	31.67	18.5	2.87	29.93	-	-	Peak
860.32	24.73	-21.27	46	30.56	20.8	3.3	29.93	-	-	Peak
2480	88.58	-	-	78.13	32.41	5.71	27.67	100	240	Peak
2480	87.9	-	-	77.45	32.41	5.71	27.67	100	240	Average
4960	29.46	-44.54	74	43.87	34.12	8.49	57.02	118	136	Peak
7440	34.62	-39.38	74	47.6	33.97	10.04	56.99	198	200	Peak

Note: Other harmonics are lower than background noise.

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Test Mode :	Mode 3	Temperature :	23~25°C			
Test Channel :	39	Relative Humidity :	48~52%			
Test Engineer :	Kaer Huang	Polarization :	Vertical			
2480 MHz is fundamental signal which can be ignored.						
Remark :	2. Average measurement was not performed if peak level went lower th					
	average limit.					

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
(MHz)	(dBµV/m)	Limit (dB)	Line	Level	Factor (dB)	Loss (dB)	Factor (dB)	Pos	Pos	
, ,		, ,	(dBµV/m)	(dBµV)	, ,	, ,	, ,	(cm)	(deg)	
34.85	35.68	-4.32	40	48.7	16.1	0.81	29.93	100	0	Peak
103.72	24.49	-19.01	43.5	41.63	11.52	1.28	29.94	-	-	Peak
312.27	19.29	-26.71	46	34.07	13.1	2.05	29.93	-	-	Peak
551.86	22.16	-23.84	46	31.36	18.06	2.66	29.92	-	-	Peak
751.68	25.04	-20.96	46	31.46	20.45	3.06	29.93	-	-	Peak
908.82	24.62	-21.38	46	30.14	21.07	3.35	29.94	-	-	Peak
2480	87.19	-	-	76.74	32.41	5.71	27.67	100	250	Peak
2480	85.98	-	-	75.53	32.41	5.71	27.67	100	250	Average
4960	30.59	-43.41	74	45	34.12	8.49	57.02	118	136	Peak
7440	34.75	-39.25	74	47.73	33.97	10.04	56.99	198	200	Peak

Note: Other harmonics are lower than background noise.

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3.6 AC Conducted Emission Measurement

3.6.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of emission (MUz)	Conducted limit (dBμV)				
Frequency of emission (MHz)	Quasi-peak	Average			
0.15-0.5	66 to 56*	56 to 46*			
0.5-5	56	46			
5-30	60	50			

^{*}Decreases with the logarithm of the frequency.

3.6.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.6.3 Test Procedures

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- 2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support units are connecting to the other LISN.
- 4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- 5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
- 6. Both sides of AC line were checked for maximum conducted interference.
- 7. The frequency range from 150 kHz to 30 MHz was searched.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

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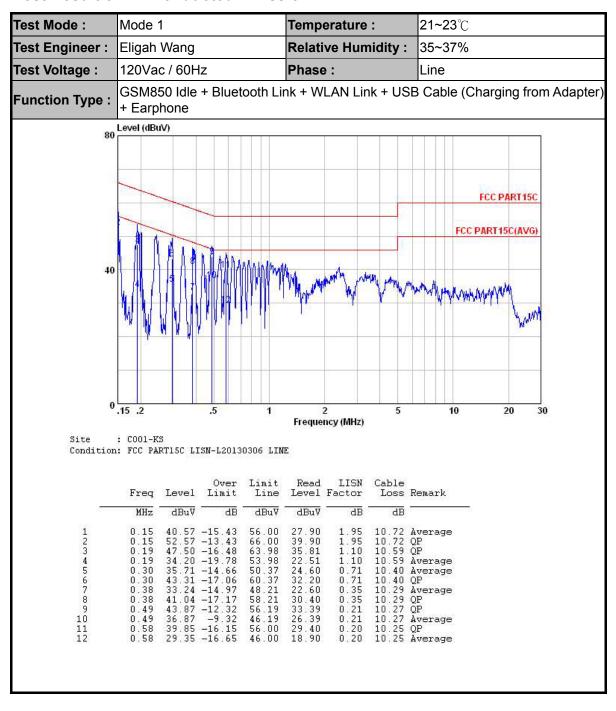
3.6.4 Test Setup



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3.6.5 Test Result of AC Conducted Emission



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Test Mode: Mode 1 Temperature: **21~23**℃ Eligah Wang **Relative Humidity:** Test Engineer: 35~37% 120Vac / 60Hz Test Voltage: Phase: Neutral GSM850 Idle + Bluetooth Link + WLAN Link + USB Cable (Charging from Adapter) Function Type: + Earphone 80 Level (dBuV) FCC PART15C FCC PART 15C(AVG) 0 .15 .2 20 .5 2 5 10 30 Frequency (MHz) : C001-KS Site Condition: FCC PART15C LISN-N20130306 NEUTRAL Over Limit Read LISN Cable Level Factor Freq Level Limit Line Loss Remark dB MHz dBuV dB dBuV dBuV dB 32 .63 -13 .37 40 .73 -15 .27 31 .27 -14 .73 40 .57 -15 .43 30 .78 -15 .22 39 .78 -16 .22 29 .09 -16 .91 40 .49 -15 .51 40 .38 -15 .62 40 .49 .49 .55 30 .38 -15 .62 40 .48 -15 .52 30 .88 -15 .52 10.25 Average 10.25 QP 10.24 Average 10.24 QF 10.20 QP 10.20 QP 10.18 Average 10.18 QP 10.18 QP 10.18 Average 10.18 QP 10.18 QP 0.54 0.54 0.61 0.61 0.76 0.76 0.97 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00 46.00 46.00 22.10 30.20 20.79 30.09 20.40 29.40 18.80 30.20 30.10 20.10 30.20 20.60 0.28 0.24 0.24 0.18 0.18 0.11 0.11 0.10 1.10 1.10 1.17 10 0.10 30.88 10.18 Average

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3.7 Antenna Requirements

3.7.1 Standard Applicable

If directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. 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 FCC rule.

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

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4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Jun. 17, 2013	Apr. 30, 2014	Jun. 16, 2014	Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1218010	13dBm~-20dBm	Mar. 03, 2014	Apr. 30, 2014	Mar. 02, 2015	Conducted (TH01-SZ)
Power Sensor	Anritsu	MA2411B	1207253	0.3GHz~40GHz	Mar. 03, 2014	Apr. 30, 2014	Mar. 02, 2015	Conducted (TH01-SZ)
ESCIO TEST Receiver	R&S	ESCI	100724	9kHz~3GHz	Feb. 21, 2014	May 05, 2014	Feb. 20, 2015	Radiation (03CH01-SZ)
Signal Analyzer	R&S	FSV40	101078	10Hz~40GHz	Jun. 17, 2013	May 05, 2014	Jun. 16, 2014	Radiation (03CH01-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	May 29, 2013	May 05, 2014	May 28, 2014	Radiation (03CH01-SZ)
Bilog Antenna	TESEQ	CBL 6112D	23188	30MHz~2GHz	Oct. 26, 2013	May 05, 2014	Oct. 25, 2014	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS Lindgren	3117	00119436	1GHz~18GHz	Oct. 26, 2013	May 05, 2014	Oct. 25, 2014	Radiation (03CH01-SZ)
Double Ridged Horn Antenna	COM-POWER	AH-840	101073	18GHz~40GHz	Jan. 27, 2014	May 05, 2014	Jan. 26, 2015	Radiation (03CH01-SZ)
Amplifier	ADVANTEST	BB525C	E9007003	9kHz~3000MHz	Feb. 21, 2014	May 05, 2014	Feb. 20, 2015	Radiation (03CH01-SZ)
Amplifier	Agilent	83017A	MY395013 02	3Hz~26.5GHz	Mar. 03, 2014	May 05, 2014	Mar. 02, 2015	Radiation (03CH01-SZ)
AC Source(AVR)	Chroma	61601	616010001 985	100Vac~250Vac	Mar. 25, 2014	May 05, 2014	Mar. 24, 2015	Radiation (03CH01-SZ)
Turn Table	EM Electronics	EM 1000	N/A	0~360 degree	NCR	May 05, 2014	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM Electronics	EM 1000	N/A	1 m~4 m	NCR	May 05, 2014	NCR	Radiation (03CH01-SZ)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	May 23, 2013	Apr. 29, 2014	May 22, 2014	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060103	9kHz~30MHz	Dec. 10, 2013	Apr. 29, 2014	Dec. 09, 2014	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060105	9kHz~30MHz	Dec. 10, 2013	Apr. 29, 2014	Dec. 09, 2014	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP00000 0811	AC 0V~300V, 45Hz~1000Hz	Nov. 12, 2013	Apr. 29, 2014	Nov. 11, 2014	Conduction (CO01-KS)

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5 Uncertainty of Evaluation

Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence	2.31
of 95% (U = 2Uc(y))	2.31

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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence	3.90
of 95% (U = 2Uc(y))	3.90

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