FCC RF Test Report

APPLICANT : CT Asia EQUIPMENT : Tablet PC

BRAND NAME : BLU

MODEL NAME : Life View 8.0

FCC ID : YHLBLULIFEVIEW8

STANDARD : FCC Part 15 Subpart C §15.247

CLASSIFICATION : (DTS) Digital Transmission System

The product was received on Jul. 22, 2014 and testing was completed on Dec. 29, 2014. We, SPORTON INTERNATIONAL (KUNSHAN) INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been 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 (KUNSHAN) INC., the test report shall not be reproduced except in full.

Reviewed by: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager

SPORTON INTERNATIONAL (KUNSHAN) INC.

No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P. R. China

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEVIEW8 Page Number : 1 of 45 Report Issued Date : Jan. 04, 2015

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Report No.: FR472201C

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR472201C	Rev. 01	Initial issue of report	Jan. 04, 2015

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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)	Power Output Measurement ≤ 30dBm Pass		-		
3.3	15.247(e)	Power Spectral Density	ver Spectral Density ≤ 8dBm/3kHz Pass		-	
3.4		Conducted Band Edges		, 00 ID-	Pass	-
3.4	15.247(d)	Conducted Spurious Emission	≤ 20dBc	Pass	-	
3.5	15.247(d)	Radiated Band Edges and	15.209(a) &	Pass	Under limit 7.84 dB at	
0.0	10.247 (d)	Radiated Spurious Emission	15.247(d)	1 433	2389.470 MHz	
3.6	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 8.94 dB at 0.500 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

1.2 Manufacturer

Ragentek Technology

D10/D11, No.3188, Xiupu Road, PuDong District, Shanghai

1.3 Product Feature of Equipment Under Test

	Product Feature
Equipment	Tablet PC
Brand Name	BLU
Model Name	Life View 8.0
FCC ID	YHLBLULIFEVIEW8
EUT supports Radios application	GSM/GPRS/EGPRS/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_L810a_V04_GENERIC
EUT Stage	Production Unit

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 subjective to this standard

Product Specific	cation subjective to this standard
Tx/Rx Channel Frequency Range	802.11b/g/n : 2412 MHz ~ 2462 MHz
	802.11b : 19.52 dBm (0.0895 W)
Maximum (Peak) Output Power to	802.11g : 22.37 dBm (0.1726 W)
Antenna	802.11n HT20 : 22.38 dBm (0.1730 W)
	802.11n HT40 : 21.74 dBm (0.1493 W)
Antenna Type / Gain	802.11b/g/n: Chip Antenna with gain -1 dBi
Type of Modulation	802.11b: DSSS (DBPSK / DQPSK / CCK)
Type of Modulation	802.11g/n: OFDM (BPSK / QPSK / 16QAM / 64QAM)

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1.5 Modification of EUT

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

1.6 Testing Location

Test Site	SPORTON INTERNATION	NAL (KUNSHAN) INC.					
	No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P. R. China						
Test Site Location	TEL: +86-0512-5790-0158						
	FAX: +86-0512-5790-0958						
Toot Site No	Sporton	FCC Registration No.					
Test Site No.	TH01-KS	CO01-KS	149928				

Test Site	SPORTON INTERNATIONAL (SHEN	ZHEN) INC.			
Test Site Location	No. 3 Building, the third floor of south, Shahe River west, Fengzeyuan warehouse, Nanshan District, Shenzhen, Guangdong, P. R. China				
	TEL: +86-755- 3320-2398				
Took Cita No	Sporton Site No.	FCC Registration No.			
Test Site No.	03CH01-SZ	831040			

1.7 Applicable Standards

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 v03r02
- ANSI C63.4-2009
- ANSI C63.10-2009

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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Test Configuration of Equipment Under Test

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: conducted emission (150 kHz to 30 MHz) and radiated emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Z plane) were recorded in this report.

The final configuration from all the combinations and the worst-case data rates were investigated by measuring the maximum power across all the data rates and modulation modes under section 2.2.

Based on the worst configuration found above, the RF power setting is set individually to meet FCC compliance limit for the final conducted and radiated tests shown in section 2.3.

2.1 Carrier Frequency Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
	1	2412	7	2442
	2	2417	8	2447
2400 2402 F MI I-	3	2422	9	2452
2400-2483.5 MHz	4	2427	10	2457
	5	2432	11	2462
	6	2437	-	-

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2.2 Pre-Scanned RF Power

Preliminary tests were performed in different data rate and data rate associated with the highest power were chosen for full test shown in the following tables.

	2.4GHz 802.11b RF Output Power (dBm)									
Pow	er vs. Chan	nel	Power vs. Data Rate							
Channel	(WHZ)		Channel	2Mbps	5.5Mbps	11Mbps				
	(IVITZ)	1Mbps								
CH 01	2412 MHz	<mark>19.52</mark>								
CH 06	2437 MHz	19.45	CH 01	19.50	19.48	19.47				
CH 11	2462 MHz	19.27								

	2.4GHz 802.11g RF Output Power (dBm)										
Pow	er vs. Chan	nel			P	ower vs.	Data Rat	е			
Channel	Frequency (MHz)	Data Rate	Channel	9Mbps	12Mbps	18Mbps	24Mbps	36Mbps	48Mbps	54Mbps	
	(IVITZ)	6Mbps		,							
CH 01	2412 MHz	22.23									
CH 06	2437 MHz	<mark>22.37</mark>	CH 06	22.31	22.23	22.27	22.25	22.18	22.27	22.25	
CH 11	2462 MHz	21.73									

	2.4GHz 802.11n HT20 RF Output Power (dBm)											
Pow	er vs. Chan	nel		Power vs. MCS Index								
Channel	Frequency (MHz)	MCS Index MCS0	Channel	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7		
CH 01	2412 MHz	22.32										
CH 06	2437 MHz	<mark>22.38</mark>	CH 06	22.33	22.25	22.27	22.24	22.22	22.34	22.31		
CH 11	2462 MHz	21.82										

	2.4GHz 802.11n HT40 RF Output Power (dBm)											
Pow	er vs. Chani	nel		Power vs. MCS Index								
Channel	Frequency (MHz)	MCS Index	Channel	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7		
	(IVITZ)	MCS0										
CH 03	2422 MHz	21.69										
CH 06	2437 MHz	<mark>21.74</mark>	CH 06	21.51	21.45	21.41	21.36	21.27	21.24	21.28		
CH 09	2452 MHz	21.55										

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2.3 Test Mode

Final results of test modes, data rates and test channels are shown as following table.

Test Cases								
	Test Items	Mode	Data Rate	Test Channel				
		802.11b	1 Mbps	1/6/11				
	6dB BW	802.11g	6 Mbps	1/6/11				
	Power Spectral	802.11n HT20	MCS0	1/6/11				
	Density	802.11n HT40	MCS0	3/6/9				
		802.11b	1 Mbps	1/6/11				
		802.11g	6 Mbps	1/6/11				
	Output Power	802.11n HT20	MCS0	1/6/11				
Conducted		802.11n HT40	MCS0	3/6/9				
TCs		802.11b	1 Mbps	1/11				
	Conducted Band	802.11g	6 Mbps	1/11				
	Edge	802.11n HT20	MCS0	1/11				
		802.11n HT40	MCS0	3/9				
		802.11b	1 Mbps	1/6/11				
	Conducted Spurious	802.11g	6 Mbps	1/6/11				
	Emission	802.11n HT20	MCS0	1/6/11				
		802.11n HT40	MCS0	3/6/9				
		802.11b	1 Mbps	1/11				
		802.11g	6 Mbps	1/11				
	Radiated Band Edge	802.11n HT20	MCS0	1/11				
Radiated		802.11n HT40	MCS0	3/9				
TCs		802.11b	1 Mbps	1/6/11				
	Radiated Spurious	802.11g	6 Mbps	1/6/11				
	Emission	802.11n HT20	MCS0	1/6/11				
		802.11n HT40	MCS0	3/6/9				
AC				•				
Conducted	Mode 1 : GSM850 Idle -	+ Bluetooth Link + WLAN Link	x + Earphone + USB Cable (C	Charging from Adapter)				
Emission								

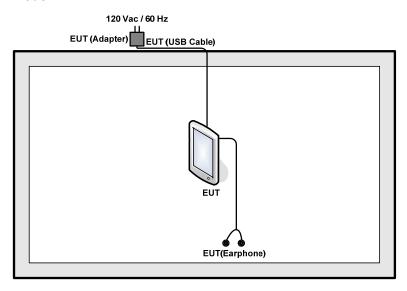
Remark: For radiated TCs, the tests were performance with adapter, earphone and USB cable.

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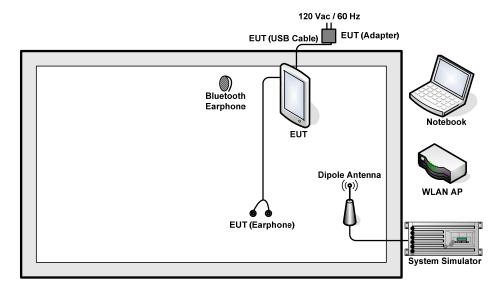
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2.4 Connection Diagram of Test System

<WLAN Tx Mode>



<AC Conducted Emission Mode>



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2.5 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
3.	Notebook	Lenovo	G480	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
4.	Bluetooth Earphone	Nokia	BH-102	PYAHS-107W	N/A	N/A

2.6 EUT Operation Test Setup

For WLAN 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.

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2.7 Measurement Results Explanation Example

For all conducted test items:

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

Example:

The spectrum analyzer offset is derived from RF cable loss.

Offset = RF cable loss.

Following shows an offset computation example with cable loss 6.0 dB.

Offset (dB) = RF cable loss(dB). = 6.0 (dB)

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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 measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedures

- 1. The testing follows FCC KDB Publication No. 558074 DTS D01 Meas. Guidance v03r02.
- 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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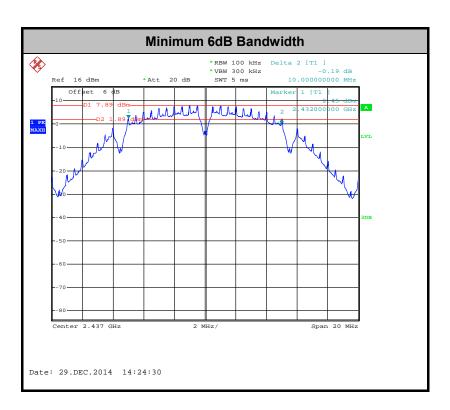
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3.1.5 Test Result of 6dB Occupied Bandwidth

Test Band :	2.4GHz	Temperature :	24~25 ℃
Test Engineer :	Issac Song	Relative Humidity :	49~51%

Mod.	Data Rate	N _{TX}	Channel	Freq. (MHz)	6dB Bandwidth (MHz)	6dB Bandwidth Min. Limit (MHz)	Pass/Fail
11b	1Mbps	1	1	2412	10.04	0.50	Pass
11b	1Mbps	1	6	2437	10.00	0.50	Pass
11b	1Mbps	1	11	2462	10.00	0.50	Pass
11g	6Mbps	1	1	2412	15.32	0.50	Pass
11g	6Mbps	1	6	2437	15.08	0.50	Pass
11g	6Mbps	1	11	2462	15.52	0.50	Pass
HT20	MCS0	1	1	2412	15.96	0.50	Pass
HT20	MCS0	1	6	2437	15.92	0.50	Pass
HT20	MCS0	1	11	2462	16.88	0.50	Pass
HT40	MCS0	1	3	2422	35.12	0.50	Pass
HT40	MCS0	1	6	2437	35.20	0.50	Pass
HT40	MCS0	1	9	2452	35.20	0.50	Pass

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Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

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3.2 Output Power Measurement

3.2.1 Limit of 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 are 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.

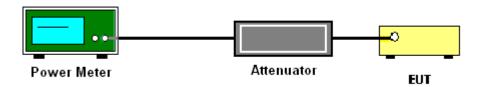
3.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.2.3 Test Procedures

- The testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas. Guidance v03r02.
- 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 :	2.4GHz	Temperature :	24~25 ℃
Test Engineer :	Issac Song	Relative Humidity :	49~51%

Mod.	Data Rate	N _{TX}	Channel	Freq. (MHz)	RF Output Power (dBm)	Power Limit (dBm)	DG (dBi)	Pass/Fail
11b	1Mbps	1	1	2412	19.52	30	-1.00	Pass
11b	1Mbps	1	6	2437	19.45	30	-1.00	Pass
11b	1Mbps	1	11	2462	19.27	30	-1.00	Pass
11g	6Mbps	1	1	2412	22.23	30	-1.00	Pass
11g	6Mbps	1	6	2437	22.37	30	-1.00	Pass
11g	6Mbps	1	11	2462	21.73	30	-1.00	Pass
HT20	MCS0	1	1	2412	22.32	30	-1.00	Pass
HT20	MCS0	1	6	2437	22.38	30	-1.00	Pass
HT20	MCS0	1	11	2462	21.82	30	-1.00	Pass
HT40	MCS0	1	3	2422	21.69	30	-1.00	Pass
HT40	MCS0	1	6	2437	21.74	30	-1.00	Pass
HT40	MCS0	1	9	2452	21.55	30	-1.00	Pass

Note: Measured power (dBm) has offset with cable loss.

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3.2.6 Test Result of Average output Power (Reporting Only)

Test Mode :	2.4GHz	Temperature :	24~25 ℃
Test Engineer :	Issac Song	Relative Humidity :	49~51%

Mod.	Data Rate	N _{TX}	Channel	Freq. (MHz)	Duty Factor (dB)	Average Output Power (dBm)	Power Limit (dBm)	DG (dBi)	Pass/Fail
11b	1Mbps	1	1	2412	0.08	16.97	30	-1.00	Pass
11b	1Mbps	1	6	2437	0.08	16.83	30	-1.00	Pass
11b	1Mbps	1	11	2462	0.08	16.86	30	-1.00	Pass
11g	6Mbps	1	1	2412	0.50	13.31	30	-1.00	Pass
11g	6Mbps	1	6	2437	0.50	14.46	30	-1.00	Pass
11g	6Mbps	1	11	2462	0.50	13.62	30	-1.00	Pass
HT20	MCS0	1	1	2412	0.54	13.46	30	-1.00	Pass
HT20	MCS0	1	6	2437	0.54	14.53	30	-1.00	Pass
HT20	MCS0	1	11	2462	0.54	13.72	30	-1.00	Pass
HT40	MCS0	1	3	2422	1.02	11.89	30	-1.00	Pass
HT40	MCS0	1	6	2437	1.02	12.10	30	-1.00	Pass
HT40	MCS0	1	9	2452	1.02	11.97	30	-1.00	Pass

Note: Measured power (dBm) has offset with cable loss and duty factor.

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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 measuring equipment is listed in the section 4 of this test report.

3.3.3 **Test Procedures**

- The testing follows Measurement Procedure 10.2 Method PKPSD of FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r02
- 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)
- 5. Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.
- 6. Measure and record the results in the test report.

3.3.4 Test Setup



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3.3.5 Test Result of Power Spectral Density

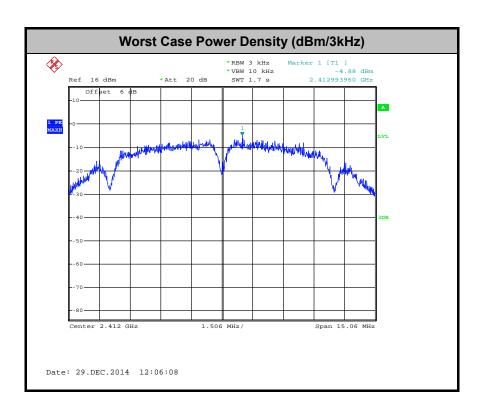
Test Mode :	2.4GHz	Temperature :	24~25 ℃
Test Engineer :	Issac Song	Relative Humidity :	49~51%

Mod.	Data Rate	N _{TX}	Channel	Freq. (MHz)	Peak Power Density (dBm/3kHz)	Max. Limits (dBm/3kHz)	DG (dBi)	Pass/Fail
11b	1Mbps	1	1	2412	-4.88	8	-1.00	Pass
11b	1Mbps	1	6	2437	-6.58	8	-1.00	Pass
11b	1Mbps	1	11	2462	-5.66	8	-1.00	Pass
11g	6Mbps	1	1	2412	-10.87	8	-1.00	Pass
11g	6Mbps	1	6	2437	-10.45	8	-1.00	Pass
11g	6Mbps	1	11	2462	-10.37	8	-1.00	Pass
HT20	MCS0	1	1	2412	-11.64	8	-1.00	Pass
HT20	MCS0	1	6	2437	-9.65	8	-1.00	Pass
HT20	MCS0	1	11	2462	-11.11	8	-1.00	Pass
HT40	MCS0	1	3	2422	-17.55	8	-1.00	Pass
HT40	MCS0	1	6	2437	-15.11	8	-1.00	Pass
HT40	MCS0	1	9	2452	-16.68	8	-1.00	Pass

Note: Measured power density (dBm) has offset with cable loss.

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3.4 Conducted Band Edges and Spurious Emission Measurement

3.4.1 Limit of Conducted Band Edges and Spurious Emission Measurement

In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement and 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).

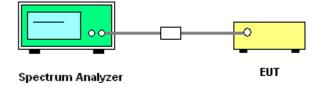
3.4.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.4.3 Test Procedures

- 1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r02.
- 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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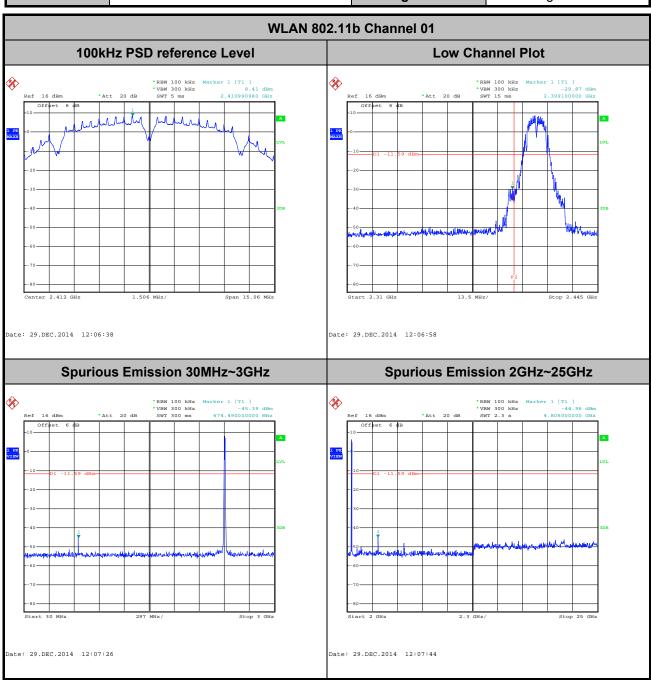
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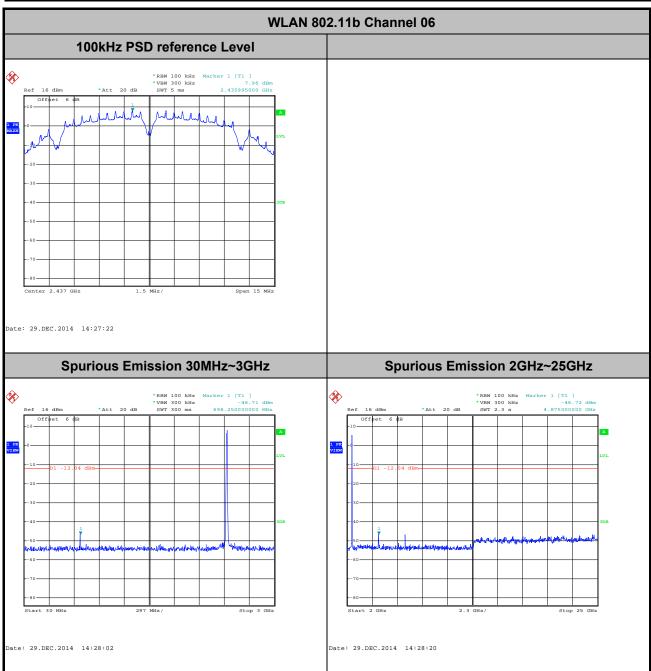
3.4.5 Test Result of Conducted Band Edges and Spurious Emission

Test Mode :	802.11b	Temperature :	24~25 ℃
Test Band :	2.4GHz Low	Relative Humidity :	49~51%
Test Channel :	01	Test Engineer :	Issac Song



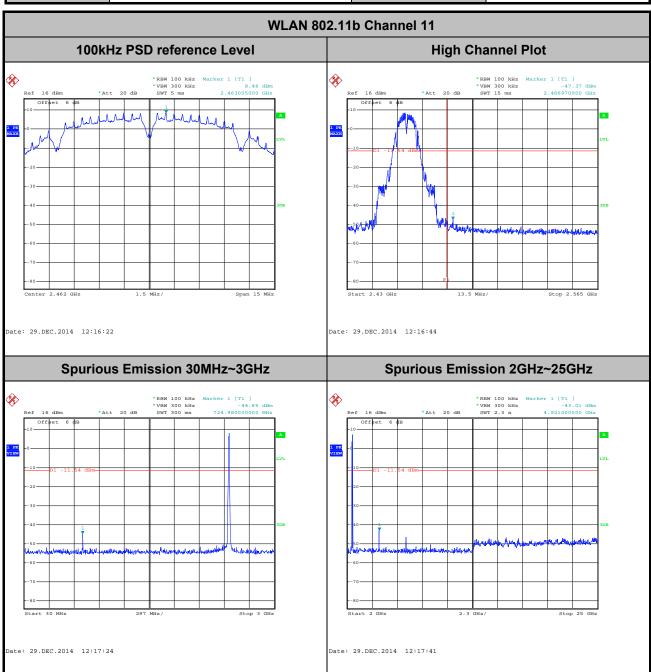
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Test Mode :	802.11b	Temperature :	24~25 ℃
Test Band :	2.4GHz Mid	Relative Humidity :	49~51%
Test Channel :	06	Test Engineer :	Issac Song



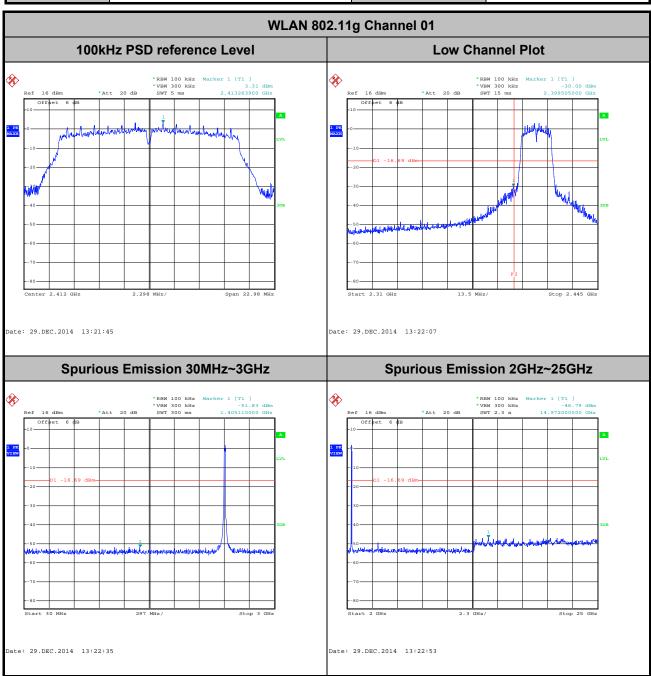
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Test Mode :	802.11b	Temperature :	24~25 ℃
Test Band :	2.4GHz High	Relative Humidity :	49~51%
Test Channel :	11	Test Engineer :	Issac Song



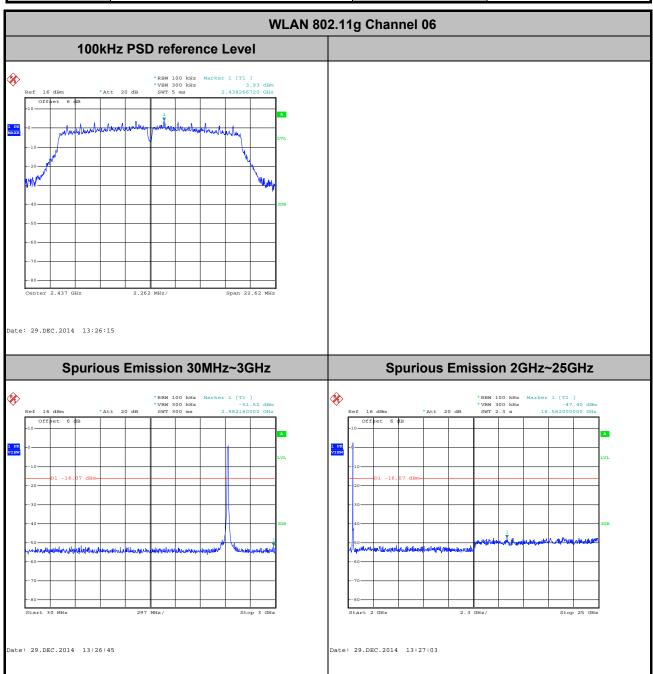
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Test Mode :	802.11g	Temperature :	24~25 ℃
Test Band :	2.4GHz Low	Relative Humidity :	49~51%
Test Channel :	01	Test Engineer :	Issac Song



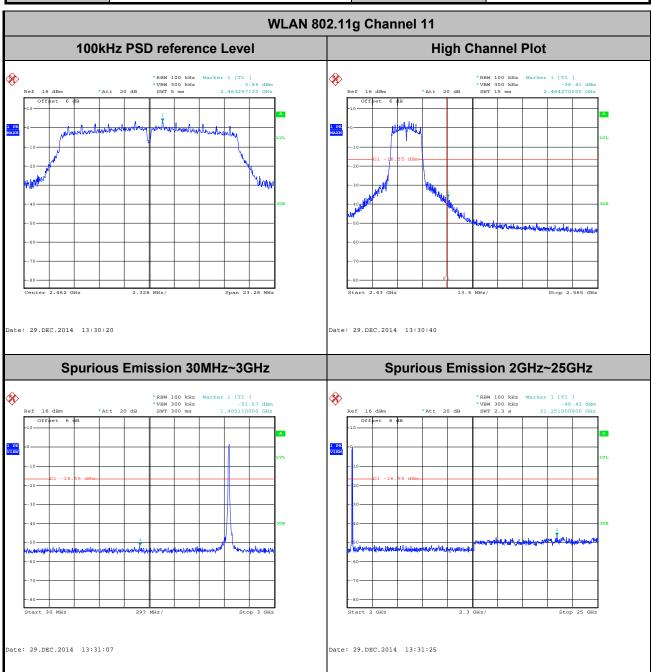
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Test Mode :	802.11g	Temperature :	24~25℃
Test Band :	2.4GHz Mid	Relative Humidity :	49~51%
Test Channel :	06	Test Engineer :	Issac Song



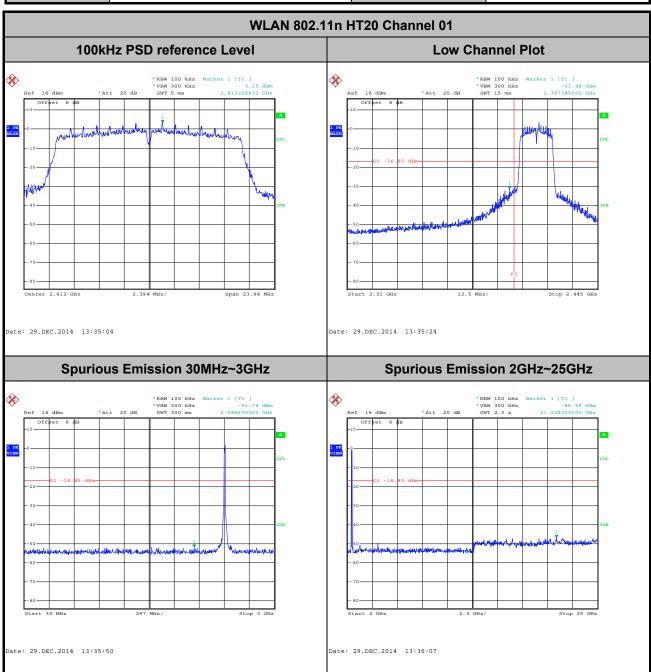
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Test Mode :	802.11g	Temperature :	24~25℃
Test Band :	2.4GHz High	Relative Humidity :	49~51%
Test Channel :	11	Test Engineer :	Issac Song



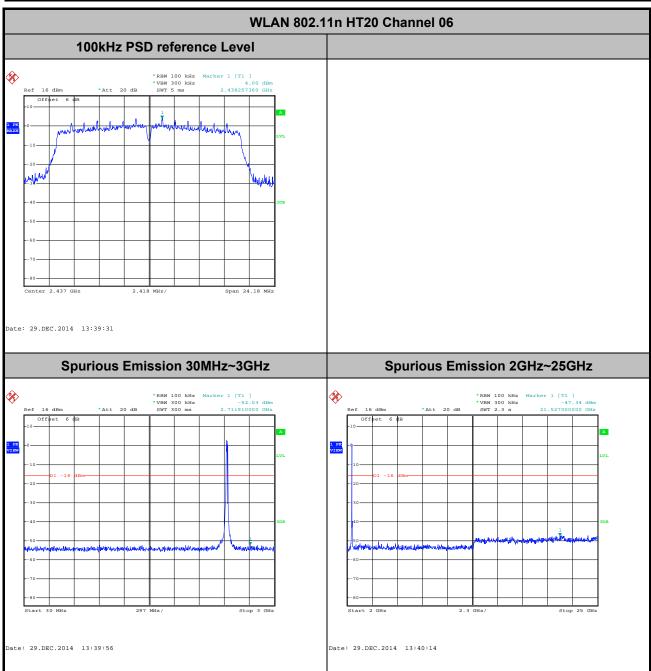
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Test Mode :	802.11n HT20	Temperature :	24~25 ℃
Test Band :	2.4GHz Low	Relative Humidity :	49~51%
Test Channel :	01	Test Engineer :	Issac Song



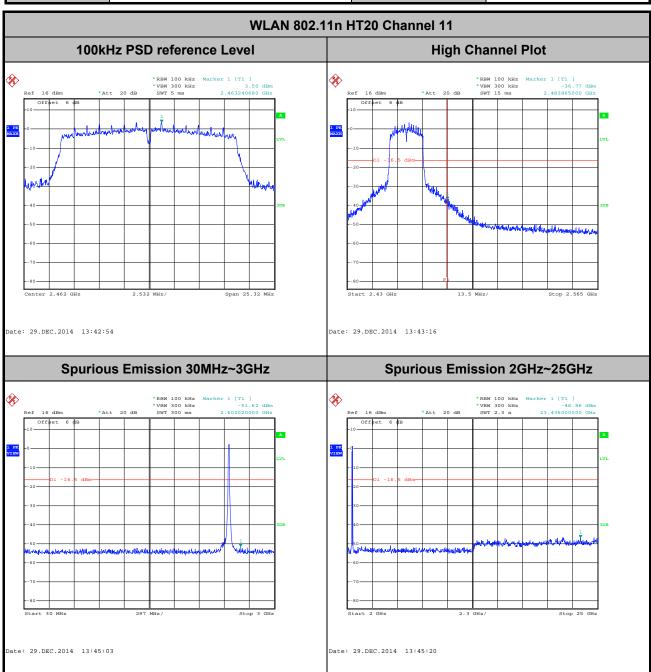
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Test Mode :	802.11n HT20	Temperature :	24~25℃
Test Band :	2.4GHz Mid	Relative Humidity :	49~51%
Test Channel :	06	Test Engineer :	Issac Song



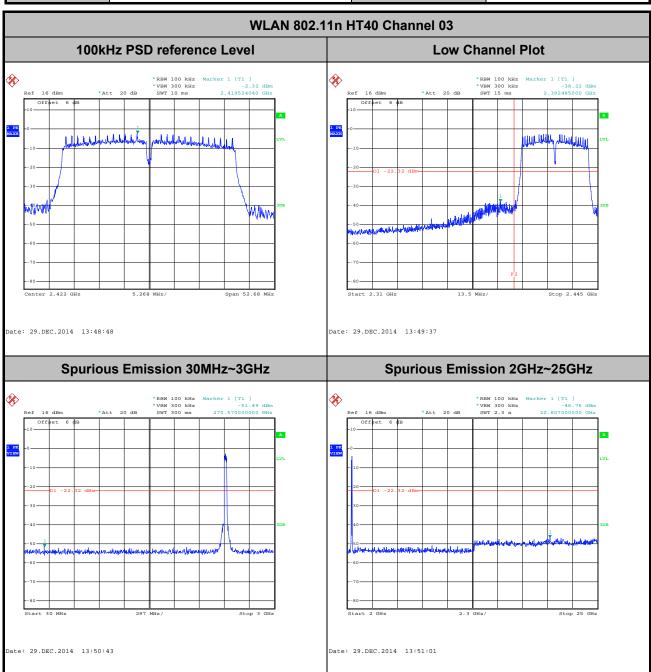
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Test Mode :	802.11n HT20	Temperature :	24~25 ℃
Test Band :	2.4GHz High	Relative Humidity :	49~51%
Test Channel :	11	Test Engineer :	Issac Song



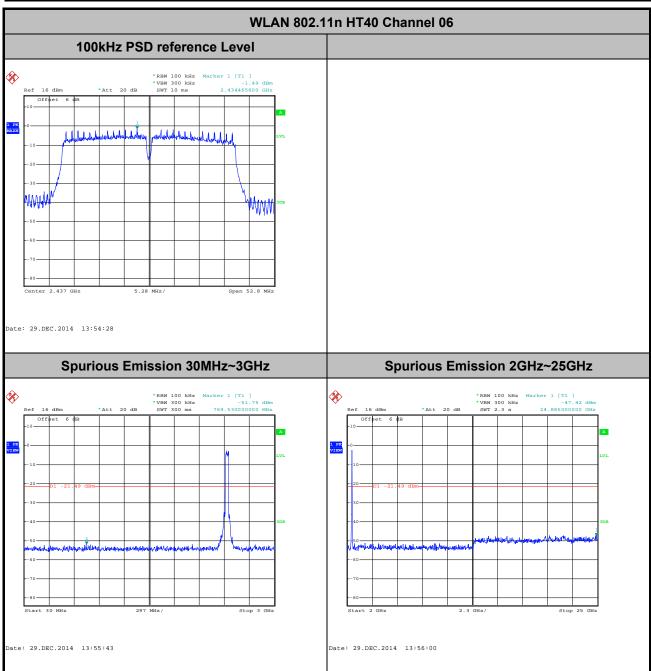
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Test Mode :	802.11n HT40	Temperature :	24~25℃
Test Band :	2.4GHz Low	Relative Humidity :	49~51%
Test Channel :	03	Test Engineer :	Issac Song



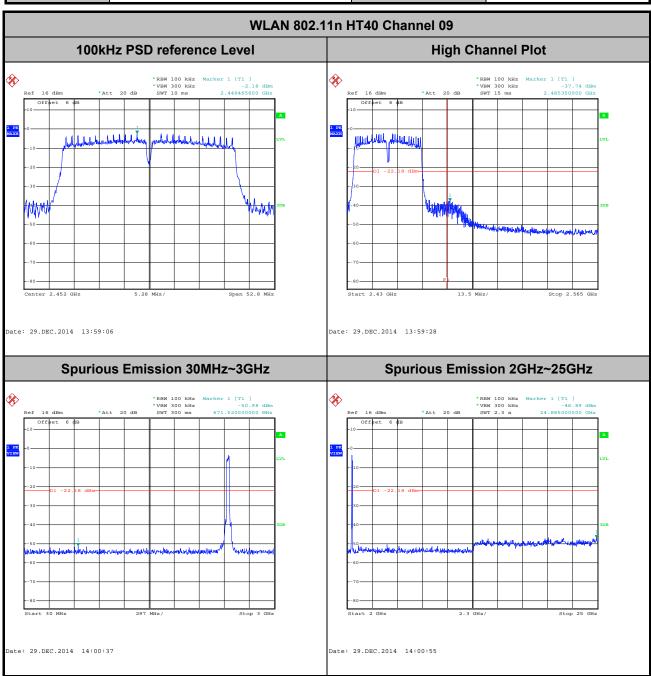
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Test Mode :	802.11n HT40	Temperature :	24~25℃
Test Band :	2.4GHz Mid	Relative Humidity :	49~51%
Test Channel :	06	Test Engineer :	Issac Song



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Test Mode :	802.11n HT40	Temperature :	24~25 ℃
Test Band :	2.4GHz High	Relative Humidity :	49~51%
Test Channel :	09	Test Engineer :	Issac Song



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3.5 Radiated Band Edges and Spurious Emission Measurement

3.5.1 Limit of Radiated band edge and Spurious Emission Measurement

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 measuring equipment is listed in the section 4 of this test report.

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3.5.3 Test Procedures

- 1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r02.
- 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.
- 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
802.11b	98.13	-	-	10Hz
802.11g	89.10	1.39	0.72	1kHz
2.4GHz 802.11n HT20	88.31	1.30	0.77	1kHz
2.4GHz 802.11n HT40	79.12	0.65	1.53	3kHz

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3.5.4 Test Setup

For radiated emissions below 30MHz

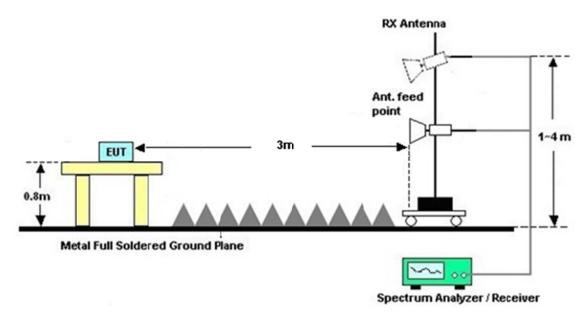


For radiated emissions from 30MHz to 1GHz



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For radiated emissions above 1GHz



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

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.

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix A.

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

Please refer to Appendix A.

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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	Conducted Limit (dBμV)						
(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 measuring equipment is listed in the section 4 of this test report.

3.6.3 Test Procedures

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room, and it 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 (IF bandwidth = 9kHz) with Maximum Hold Mode.

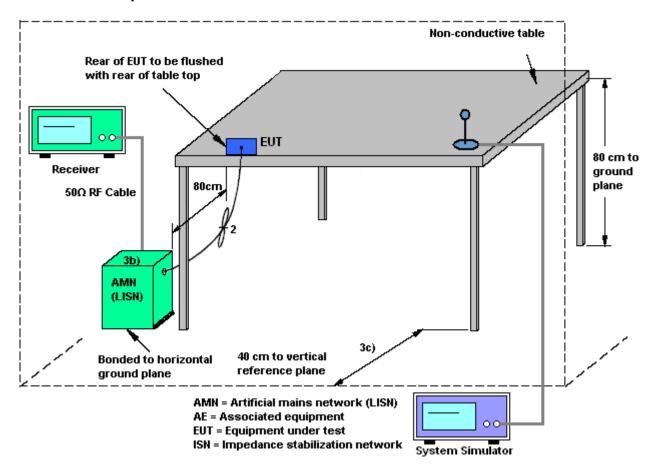
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3.6.4 Test Setup



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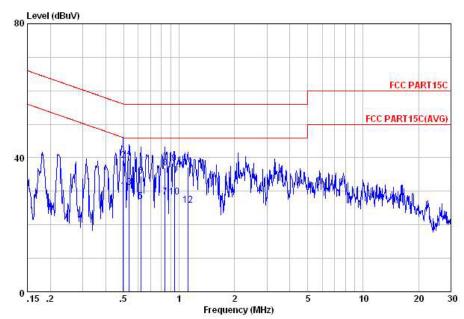
3.6.5 Test Result of AC Conducted Emission

Test Mode :	Mode 1		Temp	erature :	20~	20~22℃				
Test Engineer :	Eligan Wang		Relat	ive Humidit	y : 40~	-42%				
Test Voltage :	120Vac / 60H	Ηz	Phas	e:	Lin	е				
Function Tune	GSM850 Idle	e + Bluetooth	Link +	WLAN Link	- Earpho	one + US	B Cable (Cha	ar		
Function Type :	from Adapter	-)								
	80 Level (dBu	IV)								
							#100 TO 101 TO 1			
				-			FCC PART 150	С		
					Á		FCC PART15C(AVG	i)		
	a la	A Offina	Seek 15				1000 1000 1000			
	40		WALL DAY	My works.	My M	An a				
			10 12	M. Mari JAN	W W	Maryan	the supplemental to the su			
	X. N.		1 1 1 2 2 2	L dec			Nun			
	A 44 A 5						Lift III	Lin		
		· •					July Me	LIV.		
							TAM.	Liv.		
							M/M	W.		
	0 .15 .2	.5	1	2 Frequency (MH	5 z)	10	20	30		
Si Co	te : C001-K	s	9,530	Frequency (MH		10	20	30		
		s	9,530	Frequency (MH		10	20	30		
	te : COOl-K ndition: FCC PAI	s	30306 LIN Limit	Frequency (MH	z) N Cable		20	30		
	te : COOl-K ndition: FCC PAI	s RT15C LISN-L201 Over	30306 LIN Limit Line	Frequency (MHE E Read LIS Level Facto	z) N Cable	Remark	20	30		
Co:	te : C001-K ndition: FCC PA	S RT15C LISN-L201 Over Level Limit dBuV dB 37.06 -8.94 43.76 -12.24	Limit Line dBuV 46.00 56.00	Frequency (MHE Read LIS Level Facto dBuV d 26.60 0.2 33.30 0.2	N Cable Loss B dE 0 10.26 0 10.26	Remark Average	20	30		
Co:	te : C001-K ndition: FCC PA	S RT15C LISN-L201 Over Level Limit dBuV dB 37.06 -8.94 43.76 -12.24 42.36 -13.64 33.06 -12.94	Limit Line dBuV 46.00 56.00 46.00	Frequency (MHE) Read IIS Level Facto dBuV d 26.60 0.2 33.30 0.2 31.90 0.2 22.60 0.2	N Cable r Loss B dE 0 10.26 0 10.26 0 10.26 0 10.26	Average QP QP Average	20	30		
Co	te : C001-K ndition: FCC PA Freq MHz 1	S RT15C LISN-L201 Over Level Limit dBuV dB 37.06 -8.94 43.76 -12.24 42.36 -13.64 33.06 -12.94 25.35 -20.65 37.75 -18.25 32.33 -13.67	Limit Line dBuV 46.00 56.00 46.00 46.00 46.00 46.00	### Read IIS Level Factor Color Color	N Cable Loss B dE 0 10.26 0 10.26 0 10.25 0 10.25 0 10.25	Average QP QP Average Average QP Average	20	30		
Co	te : C001-K ndition: FCC PA Freq MHz 1	SRT15C LISN-L201 Level Cimit dBuV dB 37.06 -8.94 43.76 -12.24 42.36 -13.64 33.06 -12.94 25.35 -20.65 37.75 -18.25 32.33 -13.67 40.03 -15.97 40.03 -15.97	Limit Line dBuV 46.00 56.00 46.00 46.00 56.00 46.00 56.00	Frequency (MHE) Read IIS Level Facto dBuV d 26.60 0.2 33.30 0.2 31.90 0.2 22.60 0.2 14.90 0.2 27.30 0.2 21.90 0.2 21.90 0.2 29.60 0.2 29.90 0.1	N Cable Loss B dE 0 10.26 0 10.26 0 10.25 0 10.25 0 10.23 0 10.23 0 10.23	Average QP QP Average Average QP Average QP QP	20	300		
Co:	te : C001-K ndition: FCC PA Freq MHz 1	SRT15C LISN-L201 Level Limit dBuV dB 37.06 -8.94 43.76 -12.24 42.36 -13.64 33.06 -12.94 425.35 -20.65 37.75 -18.25 32.33 -13.67 40.03 -15.97	Limit Line dBuV 46.00 56.00 46.00 46.00 56.00 46.00 56.00 56.00	Frequency (MHE) E Read IIS Level Facto dBuV d 26.60 0.2 33.30 0.2 31.90 0.2 22.60 0.2 14.90 0.2 27.30 0.2 21.90 0.2 29.60 0.2	N Cable r Loss B dE 0 10.26 0 10.26 0 10.25 0 10.25 0 10.25 0 10.25 0 10.25 0 10.29 0 10.20	Average QP QP Average Average QP Average QP Average	20	30		

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Test Mode :	Mode 1	Temperature :	20~22℃
Test Engineer :	Eligan Wang	Relative Humidity :	40~42%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type	GSM850 Idle + Bluetooth Li	nk + WLAN Link + Ea	rphone + USB Cable (Charging
Function Type :	from Adapter)		



Site : C001-KS Condition: FCC PART15C LISN-N20130306 NEUTRAL

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
85	MHz	dBu₹	dB	dBuV	dBu₹	dB	dB	i i
1 2 3 4 5 6 7 8	0.50		-15.88	46.05	19.61	0.30		Average
2	0.50	39.17	-16.88	56.05	28.61	0.30	10.26	QP
3	0.53	31.14	-14.86	46.00	20.60	0.28	10.26	Average
4	0.53	39.84	-16.16	56.00	29.30	0.28	10.26	QP
5	0.62	27.06	-18.94	46.00	16.60	0.23	10.23	Average
6	0.62	34.56	-21.44	56.00	24.10	0.23	10.23	OP
7	0.84	28.24	-17.76	46.00	17.90	0.15	10.19	Äverage
8	0.84	36.94	-19.06	56.00	26.60	0.15	10.19	OP
9	0.94	38.40	-17.60	56.00	28.11	0.11	10.18	ÖP
10	0.94	28.20	-17.80	46.00	17.91	0.11	10.18	Äverage
11	1 12	37.18	-18.82	56.00	26.90	0.10	10.18	OP
12	1.12		-20.12	46.00	15.60	0.10	10.18	Äverage

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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. For the fixed point-to-point operation, the power shall be reduced by one dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi. 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	FSP40	100319	9kHz~40GHz	Oct. 28, 2014	Dec. 29, 2014	Oct. 27, 2015	Conducted (TH01-KS)
Pulse Power Senor	Anritsu	MA2411B	0917070	30MHz~40GHz	Feb. 27, 2014	Dec. 29, 2014	Feb. 26, 2015	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Feb. 27, 2014	Dec. 29, 2014	Feb. 26, 2015	Conducted (TH01-KS)
ESCIO TEST Receiver	R&S	ESCI	100724	9kHz~3GHz	Feb. 21, 2014	Dec. 26, 2014	Feb. 20, 2015	Radiation (03CH01-SZ)
Spectrum Analyzer	Agilent Technologies	N9038A	MY522601 85	20Hz~26.5GHz	May 26, 2014	Dec. 26, 2014	May 25, 2015	Radiation (03CH01-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	May 09, 2014	Dec. 26, 2014	May 08, 2015	Radiation (03CH01-SZ)
Bilog Antenna	TESEQ	CBL 6112D	37877	30MHz~2GHz	Oct. 15, 2014	Dec. 26, 2014	Oct. 14, 2015	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS Lindgren	3117	00119436	1GHz~18GHz	Oct. 15, 2014	Dec. 26, 2014	Oct. 14, 2015	Radiation (03CH01-SZ)
Double Ridged Horn Antenna	COM-POWER	AH-840	101073	18GHz~40GHz	Jun. 09, 2014	Dec. 26, 2014	Jun. 08, 2015	Radiation (03CH01-SZ)
Amplifier	ADVANTEST	BB525C	E9007003	9kHz~3000MHz	Feb. 21, 2014	Dec. 26, 2014	Feb. 20, 2015	Radiation (03CH01-SZ)
Amplifier	Yiai	AV3860B	04030	2GHz~26.5GHz	May 08, 2014	Dec. 26, 2014	May 07, 2015	Radiation (03CH01-SZ)
AC Source(AVR)	Chroma	61601	616010001 985	100Vac~250Vac	Mar. 25, 2014	Dec. 26, 2014	Mar. 24, 2015	Radiation (03CH01-SZ)
Turn Table	EM Electronics	EM 1000	N/A	0~360 degree	NCR	Dec. 26, 2014	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM Electronics	EM 1000	N/A	1 m~4 m	NCR	Dec. 26, 2014	NCR	Radiation (03CH01-SZ)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	May 04, 2014	Dec. 29, 2014	May 03, 2015	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060103	9kHz~30MHz	Oct. 25, 2014	Dec. 29, 2014	Oct. 24, 2015	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060105	9kHz~30MHz	Oct. 25, 2014	Dec. 29, 2014	Oct. 24, 2015	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP00000 0811	AC 0V~300V, 45Hz~1000Hz	Oct. 25, 2014	Dec. 29, 2014	Oct. 24, 2015	Conduction (CO01-KS)

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Uncertainty of Evaluation 5

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

Measuring Uncertainty for a Level of	2.3 dB
Confidence of 95% (U = 2Uc(y))	2.3 UB

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

Measuring Uncertainty for a Level of	0.0.40
Confidence of 95% (U = 2Uc(y))	3.9 dB

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Appendix A. Radiated Spurious Emission

15C 2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		2323.59	51.47	-22.53	74	39.62	32.53	8.43	29.11	100	52	Р	Н
		2383.71	39.23	-14.77	54	27.36	32.58	8.51	29.22	100	52	Α	Н
	*	2412	93.4	-	-	81.43	32.61	8.6	29.24	100	52	Р	Н
802.11b CH 01	*	2412	91.36	1	-	79.39	32.61	8.6	29.24	100	52	Α	Н
2412MHz		2366.7	51.51	-22.49	74	39.62	32.56	8.51	29.18	100	16	Р	V
2412WI112		2383.71	39.25	-14.75	54	27.38	32.58	8.51	29.22	100	16	Α	V
	*	2412	92.14	-	-	80.17	32.61	8.6	29.24	100	16	Р	V
	*	2412	90.02	1	-	78.05	32.61	8.6	29.24	100	16	Α	V
		2375.52	52.46	-21.54	74	40.59	32.58	8.51	29.22	142	356	Р	Н
		2381.37	39.53	-14.47	54	27.66	32.58	8.51	29.22	142	356	Α	Н
	*	2437	95.83	-	-	83.69	32.65	8.69	29.2	142	356	Р	Н
	*	2437	93.64	-	-	81.5	32.65	8.69	29.2	142	356	Α	Н
		2492.44	51.1	-22.9	74	38.76	32.7	8.78	29.14	142	356	Р	Н
802.11b		2491.48	39.51	-14.49	54	27.17	32.7	8.78	29.14	142	356	Α	Н
CH 06 2437MHz		2339.88	50.67	-23.33	74	38.85	32.54	8.43	29.15	103	340	Р	٧
2437 WITIZ		2362.47	39.19	-14.81	54	27.3	32.56	8.51	29.18	103	340	Α	٧
	*	2437	93.49	-	-	81.35	32.65	8.69	29.2	103	340	Р	V
	*	2437	91.3	1	-	79.16	32.65	8.69	29.2	103	340	Α	V
		2486.36	52.07	-21.93	74	39.77	32.68	8.78	29.16	103	340	Р	V
		2491.32	39.51	-14.49	54	27.17	32.7	8.78	29.14	103	340	Α	V

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	*	2462	92.23	-	-	80.05	32.67	8.69	29.18	100	77	Р	Н
	*	2462	90.09	-	-	77.91	32.67	8.69	29.18	100	77	Α	Н
000 44 b		2486.28	51.58	-22.42	74	39.28	32.68	8.78	29.16	100	77	Р	Н
802.11b		2487.8	39.64	-14.36	54	27.3	32.7	8.78	29.14	100	77	Α	Н
CH 11 2462MHz	*	2462	90.02	-	-	77.84	32.67	8.69	29.18	100	19	Р	V
2402111112	*	2462	87.79	-	-	75.61	32.67	8.69	29.18	100	19	Α	V
		2487.84	51.16	-22.84	74	38.82	32.7	8.78	29.14	100	19	Р	V
		2488.12	39.49	-14.51	54	27.15	32.7	8.78	29.14	100	19	Α	V
	1 No	o other spurio	us found										

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Remark 2. All results are PASS against Peak and Average limit line.

15C 2.4GHz 2400~2483.5MHz WIFI 802.11b (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b		4824	49.77	-24.23	74	53.25	34.4	12.86	50.74	105	198	Р	Н
CH 01													
2412MHz		4824	44.73	-29.27	74	48.21	34.4	12.86	50.74	105	198	Р	V
000 44 h		4874	46.07	-27.93	74	49.3	34.43	12.92	50.58	100	260	Р	Н
802.11b CH 06		7311	42.14	-31.86	74	42.09	36.22	14.71	50.88	174	300	Р	Н
2437MHz		4874	42.36	-31.64	74	45.59	34.43	12.92	50.58	100	260	Р	V
2-107111112		7311	43.28	-30.72	74	43.23	36.22	14.71	50.88	174	300	Р	V
000 441		4924	50.03	-23.97	74	52.95	34.46	13.04	50.42	146	347	Р	Н
802.11b		7386	40.91	-33.09	74	40.78	36.26	14.75	50.88	145	274	Р	Н
CH 11 2462MHz		4924	45.35	-28.65	74	48.27	34.46	13.04	50.42	146	347	Р	V
2402WII12		7386	41.93	-32.07	74	41.8	36.26	14.75	50.88	145	274	Р	V
	1 No	o other spurious	e found	I					l				

Remark

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No other spurious found.

^{2.} All results are PASS against Peak and Average limit line.

15C 2.4GHz 2400~2483.5MHz WIFI 802.11g (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		2388.93	52.4	-21.6	74	40.46	32.6	8.6	29.26	100	52	Р	Н
		2389.11	41.2	-12.8	54	29.26	32.6	8.6	29.26	100	52	Α	Н
000 44 =	*	2412	92.65	-	-	80.68	32.61	8.6	29.24	100	52	Р	Н
802.11g CH 01	*	2412	85.19	-	-	73.22	32.61	8.6	29.24	100	52	Α	Н
2412MHz		2389.11	53.19	-20.81	74	41.25	32.6	8.6	29.26	100	16	Р	V
2412141112		2388.75	41.35	-12.65	54	29.41	32.6	8.6	29.26	100	16	Α	V
	*	2412	90.87	ı	-	78.9	32.61	8.6	29.24	100	16	Р	٧
	*	2412	83.63	-	-	71.66	32.61	8.6	29.24	100	16	Α	٧
		2380.02	51.97	-22.03	74	40.1	32.58	8.51	29.22	169	360	Р	Н
		2377.86	40.8	-13.2	54	28.93	32.58	8.51	29.22	169	360	Α	Н
	*	2437	99.09	-	-	86.95	32.65	8.69	29.2	169	360	Р	Н
	*	2437	91.22	-	-	79.08	32.65	8.69	29.2	169	360	Α	Н
		2490.12	51.7	-22.3	74	39.36	32.7	8.78	29.14	169	360	Р	Н
802.11g		2486.92	40.87	-13.13	54	28.57	32.68	8.78	29.16	169	360	Α	Н
CH 06 2437MHz		2367.33	51.08	-22.92	74	39.19	32.56	8.51	29.18	116	340	Р	٧
2437 WIFIZ		2381.73	40.32	-13.68	54	28.45	32.58	8.51	29.22	116	340	Α	V
	*	2437	94.46	-	-	82.32	32.65	8.69	29.2	116	340	Р	V
	*	2437	86.11	ı	-	73.97	32.65	8.69	29.2	116	340	Α	V
		2484.92	51.61	-22.39	74	39.31	32.68	8.78	29.16	116	340	Р	V
		2488.76	40.33	-13.67	54	27.99	32.7	8.78	29.14	116	340	Α	V

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								,		,			
	*	2462	93.42	-	-	81.24	32.67	8.69	29.18	193	87	Р	Н
	*	2462	85.82	-	-	73.64	32.67	8.69	29.18	193	87	Α	Н
		2484.48	56.35	-17.65	74	44.05	32.68	8.78	29.16	193	87	Р	Н
802.11g CH 11 2462MHz		2483.96	42.75	-11.25	54	30.45	32.68	8.78	29.16	193	87	Α	Н
	*	2462	92.18	-	-	80	32.67	8.69	29.18	100	339	Р	V
2402WINZ	*	2462	84.77	-	-	72.59	32.67	8.69	29.18	100	339	Α	V
		2483.84	57.04	-16.96	74	44.74	32.68	8.78	29.16	100	339	Р	V
		2484.44	42.62	-11.38	54	30.32	32.68	8.78	29.16	100	339	Α	V
Remark		o other spurious		Peak and	l Average lim	itline.							

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15C 2.4GHz 2400~2483.5MHz WIFI 802.11g (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11g		4824	45.82	-28.18	74	49.3	34.4	12.86	50.74	105	198	Р	Н
CH 01													V
2412MHz		4824	42.62	-31.38	74	46.1	34.4	12.86	50.74	105	198	Р	
		4874	43.93	-30.07	74	47.16	34.43	12.92	50.58	100	260	Р	Н
802.11g		7311	41.97	-32.03	74	41.92	36.22	14.71	50.88	174	300	Р	Н
CH 06 2437MHz		4874	41.88	-32.12	74	45.11	34.43	12.92	50.58	100	260	Р	V
2437 WITIZ		7311	40.82	-33.18	74	40.77	36.22	14.71	50.88	174	300	Р	٧
		4924	44.83	-29.17	74	47.75	34.46	13.04	50.42	146	347	Р	Н
802.11g		7386	40.28	-33.72	74	40.15	36.26	14.75	50.88	145	274	Р	Н
CH 11		4924	40.41	-33.59	74	43.33	34.46	13.04	50.42	146	347	Р	V
2462MHz		7386	40.71	-33.29	74	40.58	36.26	14.75	50.88	145	274	Р	V

Remark

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^{1.} No other spurious found.

^{2.} All results are PASS against Peak and Average limit line.

15C 2.4GHz 2400~2483.5MHz WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		2389.47	54.99	-19.01	74	43.05	32.6	8.6	29.26	200	125	Р	Н
		2389.83	40.71	-13.29	54	28.77	32.6	8.6	29.26	200	125	Α	Н
802.11n	*	2412	90.66	1	-	78.69	32.61	8.6	29.24	200	125	Р	Н
HT20	*	2412	82.78	1	-	70.81	32.61	8.6	29.24	200	125	Α	Н
CH 01		2389.74	53.51	-20.49	74	41.57	32.6	8.6	29.26	100	321	Р	V
2412MHz		2389.74	40.74	-13.26	54	28.8	32.6	8.6	29.26	100	321	Α	٧
	*	2412	89.3	-	-	77.33	32.61	8.6	29.24	100	321	Р	V
	*	2412	82.03	-	-	70.06	32.61	8.6	29.24	100	321	Α	V
		2370.57	50.48	-23.52	74	38.61	32.58	8.51	29.22	200	125	Р	Н
		2378.76	39.39	-14.61	54	27.52	32.58	8.51	29.22	200	125	Α	Н
	*	2437	92.57	-	-	80.43	32.65	8.69	29.2	200	125	Р	Н
	*	2437	85.09	-	-	72.95	32.65	8.69	29.2	200	125	Α	Н
802.11n		2484.44	50.26	-23.74	74	37.96	32.68	8.78	29.16	200	125	Р	Н
HT20		2491.84	39.56	-14.44	54	27.22	32.7	8.78	29.14	200	125	Α	Н
CH 06		2386.59	50.71	-23.29	74	38.77	32.6	8.6	29.26	100	319	Р	٧
2437MHz		2376.96	39.59	-14.41	54	27.72	32.58	8.51	29.22	100	319	Α	V
	*	2437	89.59	-	-	77.45	32.65	8.69	29.2	100	319	Р	V
	*	2437	81.57	-	-	69.43	32.65	8.69	29.2	100	319	Α	V
		2485.12	49.88	-24.12	74	37.58	32.68	8.78	29.16	100	319	Р	V
		2488.6	39.5	-14.5	54	27.16	32.7	8.78	29.14	100	319	Α	V

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Ρ 2462 94.02 81.84 32.67 8.69 29.18 196 125 Н * 2462 86.07 73.89 32.67 8.69 29.18 196 125 Н Α 2483.96 57.41 32.68 29.16 Р -16.59 74 45.11 8.78 196 125 Н 802.11n 2484.12 42.84 -11.16 30.54 32.68 29.16 196 125 Н HT20 54 8.78 Α CH 11 2462 87.9 75.72 32.67 8.69 29.18 100 321 ٧ 2462MHz 2462 80.09 67.91 32.67 8.69 29.18 100 321 Α ٧ 52.64 Ρ ٧ 2484.64 -21.36 74 40.34 32.68 8.78 29.16 100 321 -13.36 2483.56 40.64 54 28.34 32.68 8.78 29.16 100 321 ٧ No other spurious found. Remark All results are PASS against Peak and Average limit line.

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15C 2.4GHz 2400~2483.5MHz WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n		4824	45.01	-28.99	74	48.49	34.4	12.86	50.74	105	198	Р	Н
HT20													
CH 01		4004	45.04	20.00	7.4	40.20	24.4	10.06	50.74	105	198	P	V
2412MHz		4824	45.91	-28.09	74	49.39	34.4	12.86	50.74	105	196	P	
802.11n		4874	42.14	-31.86	74	45.37	34.43	12.92	50.58	100	260	Р	Н
HT20		7311	41.77	-32.23	74	41.72	36.22	14.71	50.88	174	300	Р	Н
CH 06		4874	42.75	-31.25	74	45.98	34.43	12.92	50.58	100	260	Р	V
2437MHz		7311	41.86	-32.14	74	41.81	36.22	14.71	50.88	174	300	Р	V
802.11n		4924	41.58	-32.42	74	44.5	34.46	13.04	50.42	146	347	Р	Н
HT20		7386	41.04	-32.96	74	40.91	36.26	14.75	50.88	145	274	Р	Н
CH 11		4924	40.13	-33.87	74	43.05	34.46	13.04	50.42	146	347	Р	V
2462MHz		7386	40.24	-33.76	74	40.11	36.26	14.75	50.88	145	274	Р	V
Remark		o other spurious		Peakano	l Average lim	itline.							

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15C 2.4GHz 2400~2483.5MHz WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		2388.75	60.85	-13.15	74	48.91	32.6	8.6	29.26	171	354	Р	Н
		2389.47	46.16	-7.84	54	34.22	32.6	8.6	29.26	171	354	Α	Н
	*	2422	91.95	-	-	79.94	32.63	8.6	29.22	171	354	Р	Н
	*	2422	84.35	-	-	72.34	32.63	8.6	29.22	171	354	Α	Н
802.11n		2492.96	51.05	-22.95	74	38.71	32.7	8.78	29.14	171	354	Р	Н
HT40		2485.28	41.16	-12.84	54	28.86	32.68	8.78	29.16	171	354	Α	Н
CH 03		2388.75	55.57	-18.43	74	43.63	32.6	8.6	29.26	100	283	Р	٧
2422MHz		2389.47	42.64	-11.36	54	30.7	32.6	8.6	29.26	100	283	Α	V
	*	2422	86.64	-	-	74.63	32.63	8.6	29.22	100	283	Р	V
	*	2422	78.62	-	-	66.61	32.63	8.6	29.22	100	283	Α	V
		2499.76	51.44	-22.56	74	39.1	32.7	8.78	29.14	100	283	Р	V
		2488.56	41.06	-12.94	54	28.72	32.7	8.78	29.14	100	283	Α	V
		2389.29	54.02	-19.98	74	42.08	32.6	8.6	29.26	163	354	Р	Н
		2389.29	42.14	-11.86	54	30.2	32.6	8.6	29.26	163	354	Α	Н
	*	2437	92.48	-	-	80.34	32.65	8.69	29.2	163	354	Р	Н
	*	2437	84.63	-	-	72.49	32.65	8.69	29.2	163	354	Α	Н
802.11n		2495.72	52.31	-21.69	74	39.97	32.7	8.78	29.14	163	354	Р	Н
HT40		2484.48	41.86	-12.14	54	29.56	32.68	8.78	29.16	163	354	Α	Н
CH 06		2367.24	51.18	-22.82	74	39.29	32.56	8.51	29.18	100	336	Р	V
2437MHz		2387.13	40.94	-13.06	54	29	32.6	8.6	29.26	100	336	Α	V
	*	2437	85.54	-	-	73.4	32.65	8.69	29.2	100	336	Р	V
	*	2437	77.51	-	-	65.37	32.65	8.69	29.2	100	336	Α	V
		2487.88	51.51	-22.49	74	39.17	32.7	8.78	29.14	100	336	Р	V
		2487.16	41.18	-12.82	54	28.88	32.68	8.78	29.16	100	336	Α	V

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2383.26 52.13 -21.87 74 40.26 32.58 8.51 29.22 167 358 Ρ Н 2384.97 41.36 -12.64 29.4 32.58 29.22 167 358 Н 54 8.6 Α * 2452 32.65 29.2 Ρ 92.11 79.97 8.69 167 358 Н 2452 70.98 32.65 29.2 358 Н 83.12 8.69 167 Α 2486.48 61.17 -12.83 74 48.87 32.68 8.78 29.16 167 358 Ρ Н 802.11n HT40 2486.48 42.94 -11.06 30.64 32.68 8.78 29.16 167 358 Н 54 Α **CH 09** Ρ 2322.51 50.49 -23.51 74 38.64 32.53 8.43 29.11 100 338 ٧ 2452MHz 2366.07 40.73 -13.27 54 28.84 32.56 8.51 29.18 100 338 Α ٧ 2452 32.65 100 86.9 74.76 8.69 29.2 338 ٧ * 2452 78.58 --66.44 32.65 8.69 29.2 100 338 Α ٧ 2484.92 58.47 -15.53 74 46.17 32.68 8.78 29.16 100 338 Ρ ٧ -12.06 54 32.68 8.78 29.16 100 338 Α ٧ 2484.16 41.94 29.64

Remark

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No other spurious found.

^{2.} All results are PASS against Peak and Average limit line.

15C 2.4GHz 2400~2483.5MHz WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n		4844	40.49	-33.51	74	43.85	34.41	12.92	50.69	100	360	Р	Н
HT40		7266	41.85	-32.15	74	41.82	36.21	14.7	50.88	200	360	Р	Н
CH 03		4844	42.18	-31.82	74	45.54	34.41	12.92	50.69	100	360	Р	V
2422MHz		7266	42.09	-31.91	74	42.06	36.21	14.7	50.88	200	360	Р	٧
802.11n		4874	39.74	-34.26	74	42.97	34.43	12.92	50.58	100	163	Р	Ι
HT40		7311	41.27	-32.73	74	41.22	36.22	14.71	50.88	120	360	Р	Н
CH 06		4874	38.53	-35.47	74	41.76	34.43	12.92	50.58	100	163	Р	٧
2437MHz		7311	40.47	-33.53	74	40.42	36.22	14.71	50.88	120	360	Р	٧
802.11n		4904	39.65	-34.35	74	42.69	34.45	12.98	50.47	129	360	Р	Η
HT40		7356	42.34	-31.66	74	42.25	36.24	14.73	50.88	121	320	Р	I
CH 09		4904	37.51	-36.49	74	40.55	34.45	12.98	50.47	129	360	Р	٧
2452MHz		7356	41.74	-32.26	74	41.65	36.24	14.73	50.88	121	320	Р	V
Remark		o other spuriou		Peak and	Average lim	itline.						<u>'</u>	

SPORTONINTERNATIONAL (KUNSHAN) INC.

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15C Emission below 1GHz

2.4GHz WIFI 802.11n HT40 (LF)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V
		30	20.82	-19.18	40	31.81	18.9	0.85	30.74	-	ı	Р	Н
		97.9	17.22	-26.28	43.5	35.63	10.82	1.53	30.76	1	1	Р	Н
		259.89	18.74	-27.26	46	34.16	12.6	2.54	30.56	ı	1	Р	Н
		482.02	23.74	-22.26	46	32.98	17.36	3.52	30.12	1	ı	Р	Н
2.4GHz 802.11n HT40		780.78	27.17	-18.83	46	32.32	19.81	4.52	29.48	100	20	Р	Н
		985.45	28.4	-25.6	54	30.79	21.16	5.13	28.68	ı	1	Р	Н
		37.76	28.4	-11.6	40	43.91	14.3	0.94	30.75	100	20	Р	٧
LF		321.97	19.99	-26.01	46	33.93	13.64	2.83	30.41	1	ı	Р	V
		386.96	21.76	-24.24	46	33.52	15.47	3.13	30.36	1	1	Р	٧
		547.01	24.4	-21.6	46	32.52	18.01	3.77	29.9	-	-	Р	٧
		751.68	26.45	-19.55	46	31.05	20.45	4.51	29.56	-	-	Р	٧
		943.74	28.6	-17.4	46	31.21	21.14	5.01	28.76	-	-	Р	V

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^{2.} All results are PASS against limit line.

Note symbol

*	Fundamental Frequency which can be ignored. However, the level of any unwanted emissions
	shall not exceed the level of the fundamental frequency per 15.209(c).
!	Test result is over limit line.
P/A	Peak or Average
H/V	Horizontal or Vertical

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A calculation example for radiated spurious emission is shown as below:

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	Р	Н
CH 01													
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	Α	Н

1. Level($dB\mu V/m$) =

Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBµV) - Preamp Factor(dB)

2. Over Limit(dB) = Level(dB μ V/m) - Limit Line(dB μ V/m)

For Peak Limit @ 2390MHz:

- 1. Level(dBµV/m)
- = Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dB μ V) Preamp Factor(dB)
- $= 32.22(dB/m) + 4.58(dB) + 54.51(dB\mu V) 35.86 (dB)$
- $= 55.45 (dB\mu V/m)$
- 2. Over Limit(dB)
- = Level($dB\mu V/m$) Limit Line($dB\mu V/m$)
- $= 55.45(dB\mu V/m) 74(dB\mu V/m)$
- = -18.55(dB)

For Average Limit @ 2390MHz:

- 1. Level(dBµV/m)
- = Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) Preamp Factor(dB)
- $= 32.22(dB/m) + 4.58(dB) + 42.6(dB\mu V) 35.86 (dB)$
- $= 43.54 (dB\mu V/m)$
- 2. Over Limit(dB)
- = Level(dB μ V/m) Limit Line(dB μ V/m)
- $= 43.54(dB\mu V/m) 54(dB\mu V/m)$
- = -10.46(dB)

Both peak and average measured complies with the limit line, so test result is "PASS".

SPORTONINTERNATIONAL (KUNSHAN) INC.

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