FCC RF Test Report

APPLICANT : Shanghai Longcheer Technology Co., Ltd.

EQUIPMENT : Mobile Phone BRAND NAME : Longcheer

MODEL NAME : LCT_L6352_A01 FCC ID : WH7-LCT-L6352

STANDARD : FCC Part 15 Subpart C §15.247

CLASSIFICATION : (DTS) Digital Transmission System

The product was received on Apr. 23, 2015 and testing was completed on Jun. 17, 2015. 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

SPORTON INTERNATIONAL (KUNSHAN) INC.

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR542307C	Rev. 01	Initial issue of report	Jul. 09, 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	≤ 8dBm/3kHz	Pass	-
2.4	45.047(1)	Conducted Band Edges	≤ 20dBc	Pass	-
3.4 15.247(d)		Conducted Spurious Emission	<u> </u>	Pass	-
3.5	15.247(d)	Radiated Band Edges and Radiated Spurious Emission	15.209(a) & 15.247(d)	Pass	Under limit 5.03 dB at 2483.600 MHz
3.6	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 13.27 dB at 0.530 MHz
3.7	15.203 & 15.247(b)	Antenna Requirement	N/A	Pass	-

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1 General Description

1.1 Applicant

Shanghai Longcheer Technology Co., Ltd.

Building 1, No.401, Caobao Rd, Xuhui District, Shanghai, P.R.China

1.2 Manufacturer

Shanghai Longcheer Technology Co., Ltd.

Building 1, No.401, Caobao Rd, Xuhui District, Shanghai, P.R.China

1.3 Product Feature of Equipment Under Test

	Product Feature				
Equipment	Mobile Phone				
Brand Name	Longcheer				
Model Name	LCT_L6352_A01				
FCC ID	WH7-LCT-L6352				
	GSM/GPRS/EGPRS/WCDMA/HSPA/				
EUT supports Radios application	DC-HSDPA/HSPA+(Downlink Only)/LTE				
Lo i supports radios application	WLAN 2.4GHz 802.11b/g/n HT20/HT40				
	Bluetooth v3.0 + EDR/Bluetooth v4.0 LE				
	Conducted: 865843022288788				
IMEI Code	Radiation: 865843022283698				
	Conduction: 865843022283425				
HW Version	LLDM052				
SW Version	LLD0003				
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 subjective to this standard

Product Spe	Product Specification subjective to this standard				
Tx/Rx Channel Frequency Range	802.11b/g/n : 2412 MHz ~ 2462 MHz				
	802.11b : 17.78 dBm (0.0600 W)				
Maximum (Peak) Output Power to	802.11g : 21.52 dBm (0.1419 W)				
Antenna	802.11n HT20 : 19.97 dBm (0.0993 W)				
	802.11n HT40 : 19.93 dBm (0.0984 W)				
Antenna Type	PIFA Antenna with gain -1.0 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.

Testing Location 1.6

Test Site	SPORTON INTERNATIONAL (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 Site N	FCC Registration No.				
Test Site No.	TH01-KS	CO01-KS	03CH02-KS	418269			

Note: The test site complies with ANSI C63.4 2009 requirement.

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 C63.10-2013

Remark:

- All test items were verified and recorded according to the standards and without any deviation 1. during the test.
- 2. FCC permits the use of the 1.5 meter table as an alternative in C63.10-2013 through inquiry tracking number 961829.
- 3. 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

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 (X/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
2400-2483.5 MHz	3	2422	9	2452
	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 mode					
Data Rate (MHz)	1M bps	2M bps	5.5M bps	11M bps	
Peak Power (dBm)	<mark>17.78</mark>	17.55	17.68	17.72	

2.4GHz 802.11g mode								
Data Rate (MHz)	6M bps	9M bps	12M bps	18M bps	24M bps	36M bps	48M bps	54M bps
Peak Power (dBm)	<mark>21.52</mark>	21.35	21.32	21.24	21.31	21.41	21.36	21.46

2.4GHz 802.11n HT20 mode								
Data Rate (MHz)	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Peak Power (dBm)	<mark>19.97</mark>	19.76	19.88	19.74	19.56	19.57	19.92	19.32

2.4GHz 802.11n HT40 mode								
Data Rate (MHz)	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Peak Power (dBm)	<mark>19.93</mark>	19.92	19.45	19.51	19.77	19.56	19.62	19.53

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2.3 Test Mode

Final test mode of conducted test items and radiated spurious emissions are considering the modulation and worse data rates from the power table described in section 2.2.

Modulation	Data Rate
802.11b	1 Mbps
802.11g	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0

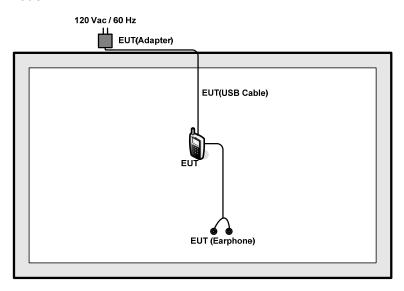
Test Cases					
AC Conducted	Mode 1 : GSM850 Idle + Bluetooth Link + WLAN Link + USB Cable (Charging from Adapter) +				
Emission	Earphone				
Remark: For	Remark: For radiated test cases, the tests were performed with adapter, earphone and USB cable.				

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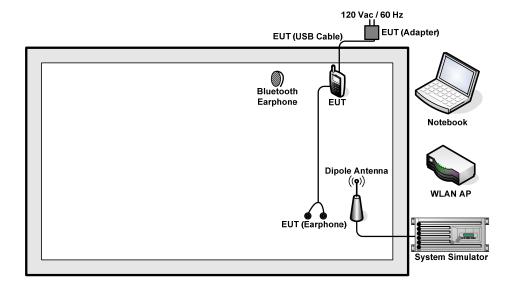
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2.4 Connection Diagram of Test System

<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	LINKSYS	WRT600N	Q87-WRT600NV11	N/A	Unshielded, 1.8 m
3.	Bluetooth Earphone	Nokia	BH-102	PYAHS-107W	N/A	N/A
4.	Notebook	Lenovo	G480	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m

2.6 EUT Operation Test Setup

For WLAN RF test items, an engineering test program was provided and enabled to make EUT continuously transmit/receive.

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

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 dB.

 $Offset(dB) = RF \ cable \ loss(dB).$ = 6 (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 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.
- 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.

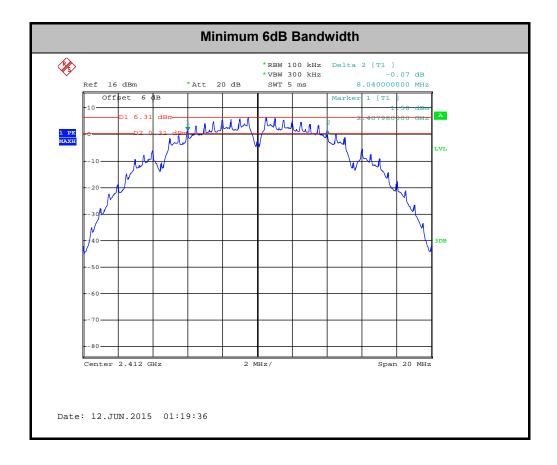
3.1.4 Test Setup



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3.1.5 Test Result of 6dB Bandwidth

Please refer to Appendix A of this test report.



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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.

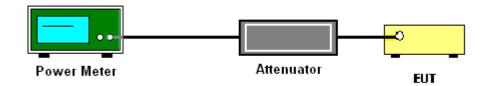
3.2.2 Measuring Instruments

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



3.2.5 Test Result of Peak Output Power

Please refer to Appendix A of this test report.

3.2.6 Test Result of Average output Power (Reporting Only)

Please refer to Appendix A of this test report.

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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
- 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)
- 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.

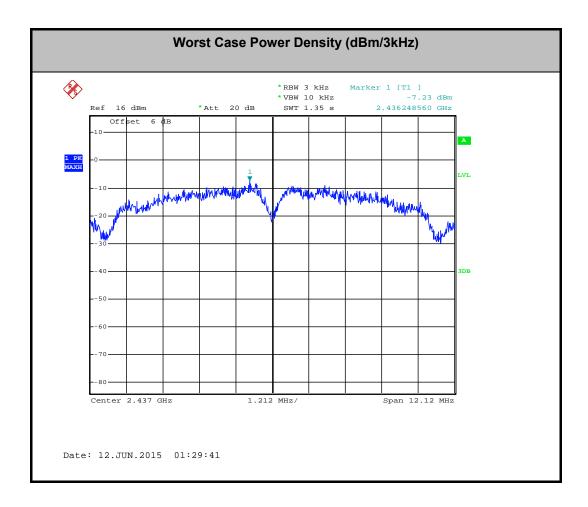
3.3.4 Test Setup



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3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A of this test report.



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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

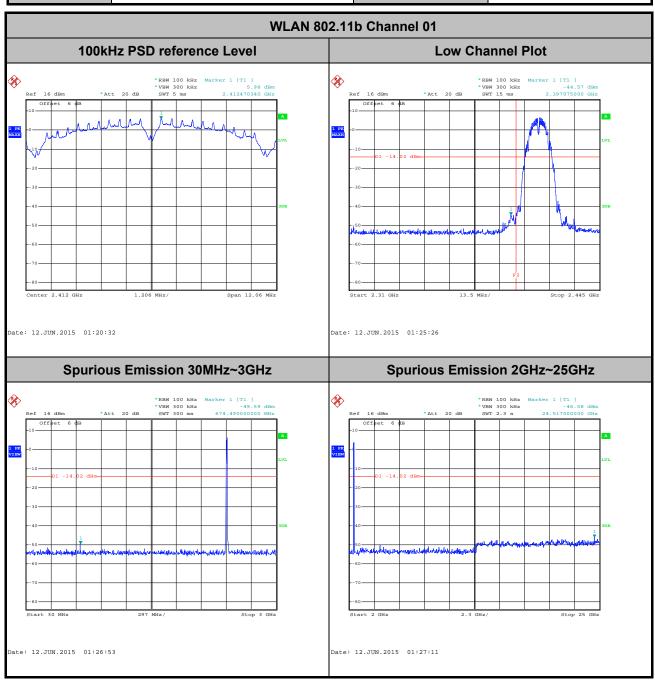


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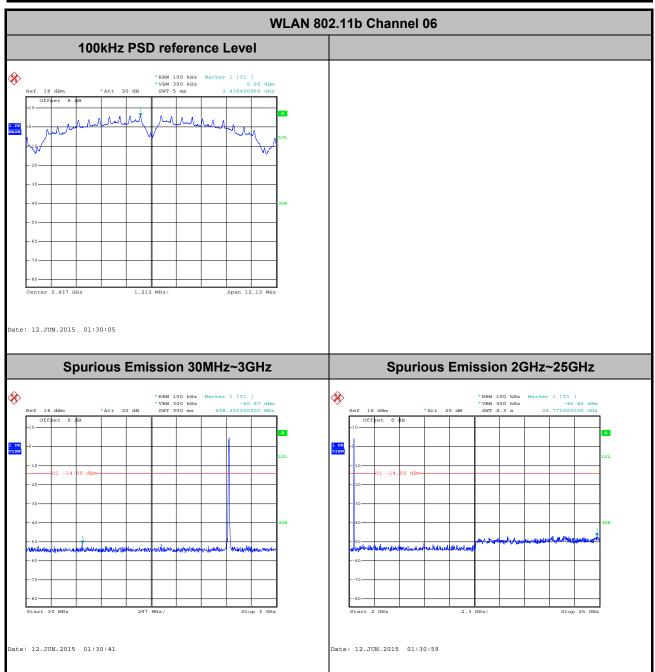
3.4.5 Test Result of Conducted Band Edges and Spurious Emission

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



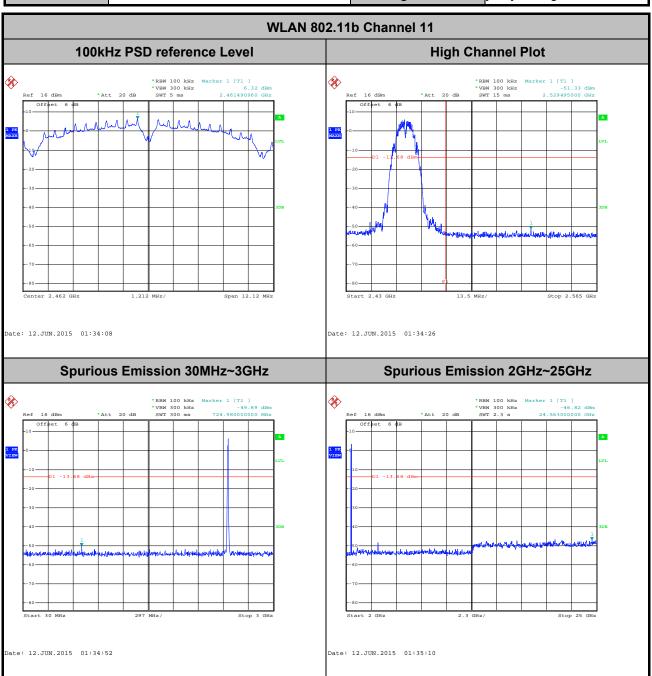
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Test Mode :	802.11b	Temperature :	24~25 ℃
Test Band :	2.4GHz Mid	Relative Humidity :	49~51%
Test Channel :	06	Test Engineer :	jacky huang



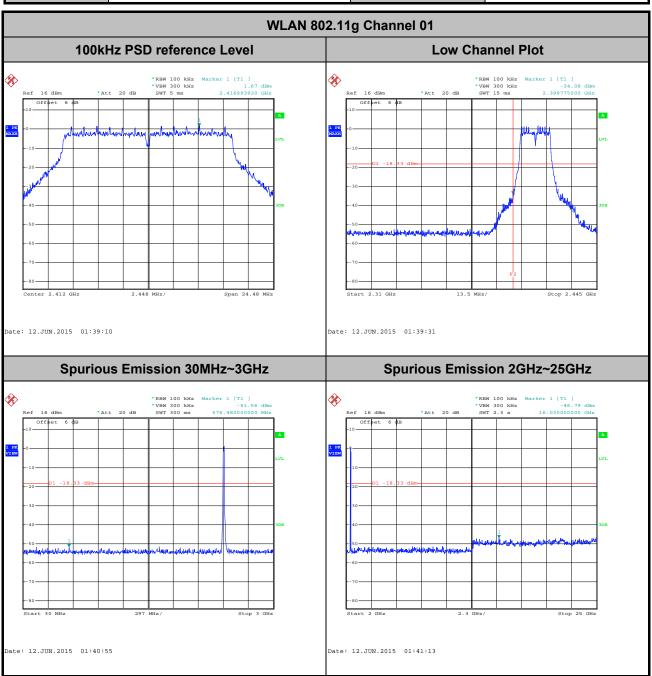
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Test Mode :	802.11b	Temperature :	24~25℃
Test Band :	2.4GHz High	Relative Humidity :	49~51%
Test Channel :	11	Test Engineer :	jacky huang



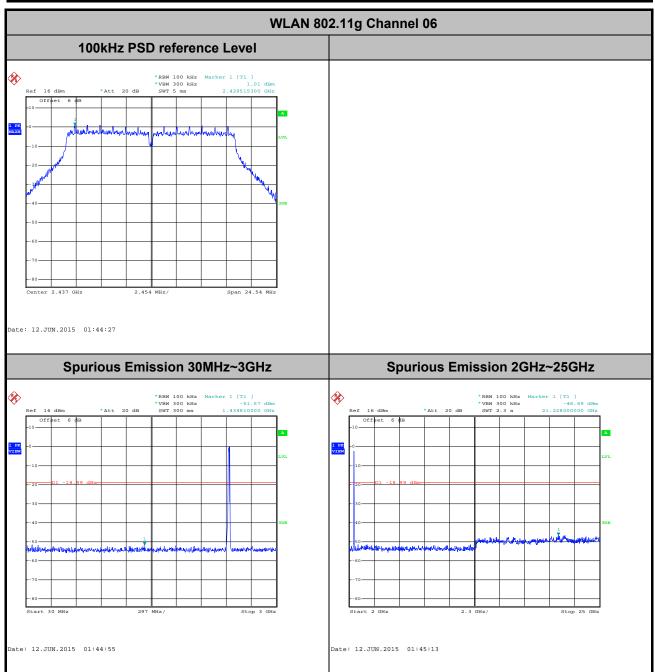
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Test Mode :	802.11g	Temperature :	24~25 ℃
Test Band :	2.4GHz Low	Relative Humidity :	49~51%
Test Channel :	01	Test Engineer :	jacky huang



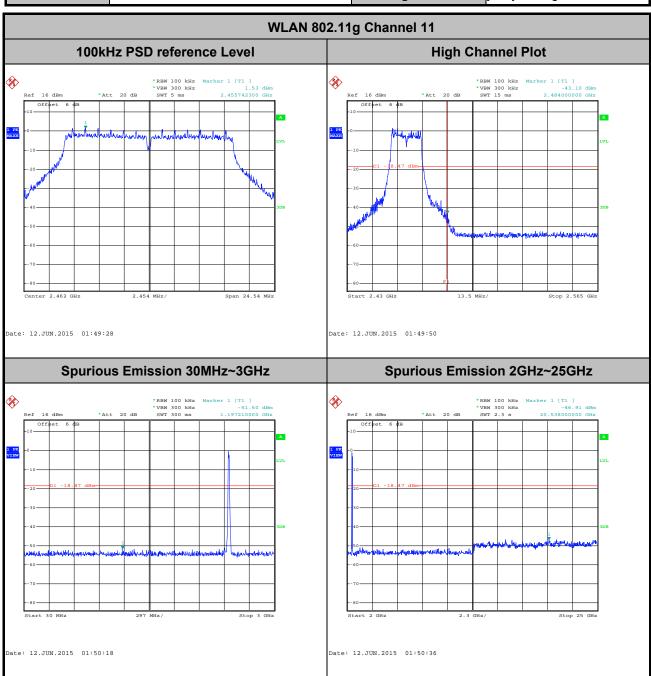
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Test Mode :	802.11g	Temperature :	24~25℃
Test Band :	2.4GHz Mid	Relative Humidity :	49~51%
Test Channel :	06	Test Engineer :	jacky huang



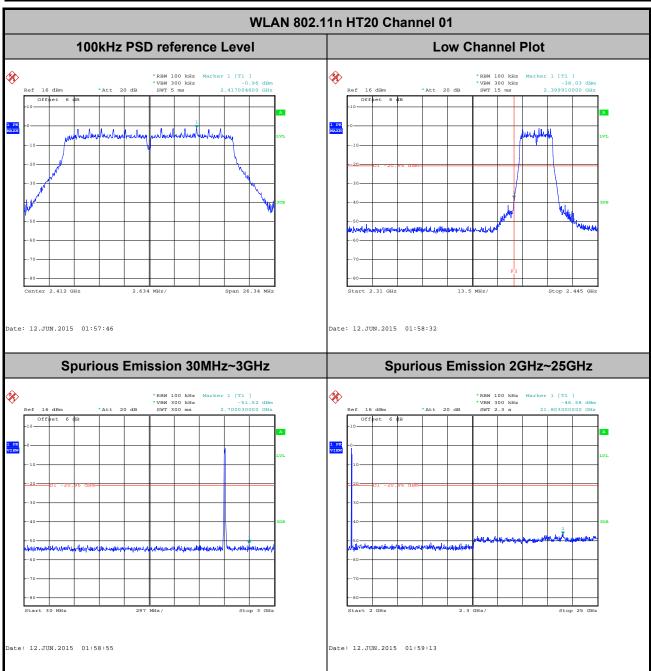
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Test Mode :	802.11g	Temperature :	24~25 ℃
Test Band :	2.4GHz High	Relative Humidity :	49~51%
Test Channel :	11	Test Engineer :	jacky huang



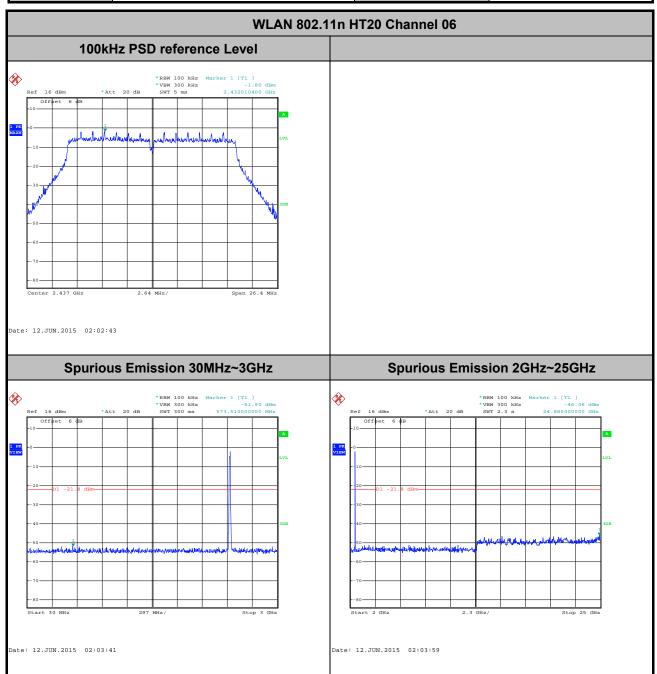
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Test Mode :	802.11n HT20	Temperature :	24~25℃
Test Band :	2.4GHz Low	Relative Humidity :	49~51%
Test Channel :	01	Test Engineer :	jacky huang



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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 :	jacky huang

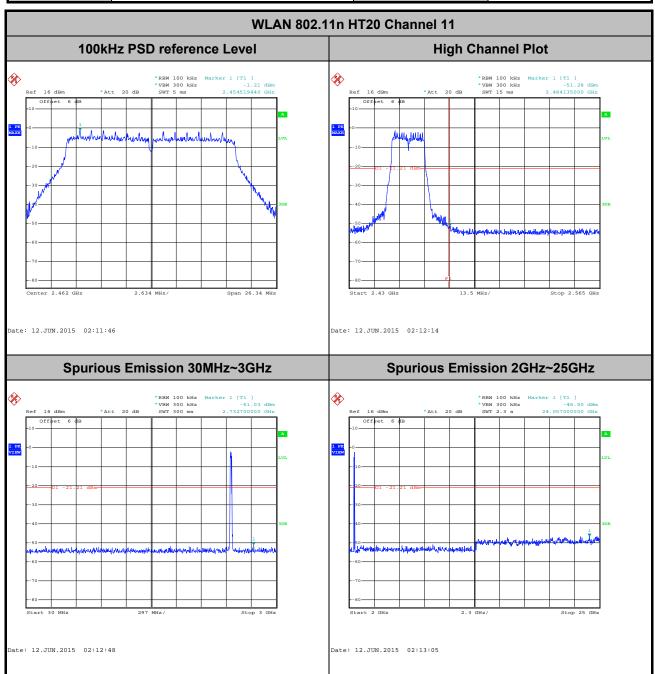


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 Test Mode :
 802.11n HT20
 Temperature :
 24~25°C

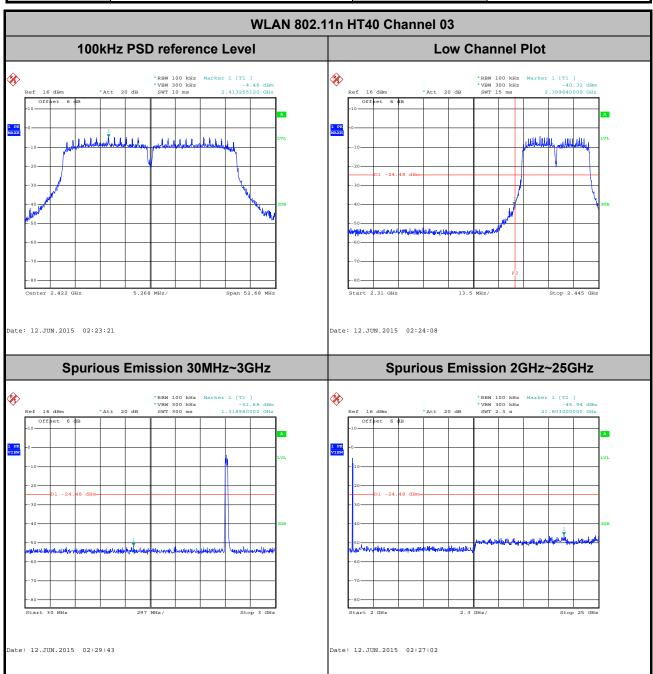
 Test Band :
 2.4GHz High
 Relative Humidity :
 49~51%

 Test Channel :
 11
 Test Engineer :
 jacky huang



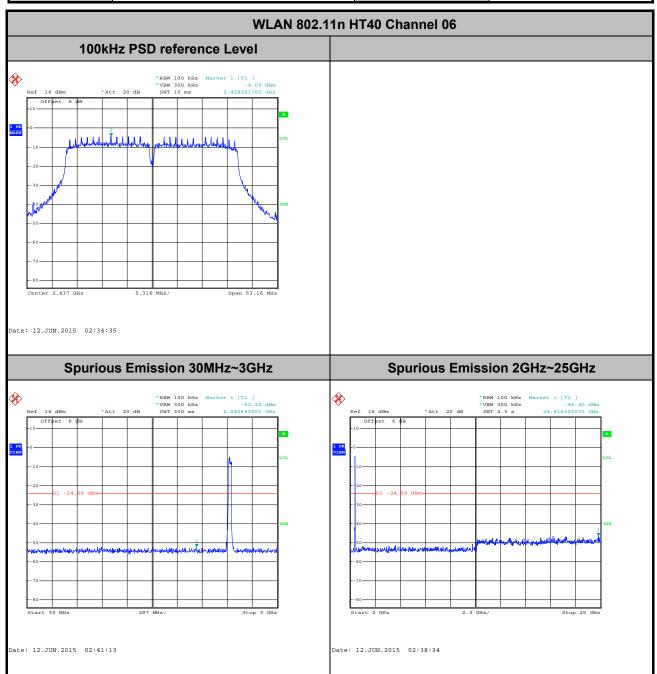
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Test Mode :	802.11n HT40	Temperature :	24~25℃
Test Band :	2.4GHz Low	Relative Humidity :	49~51%
Test Channel :	03	Test Engineer :	jacky huang



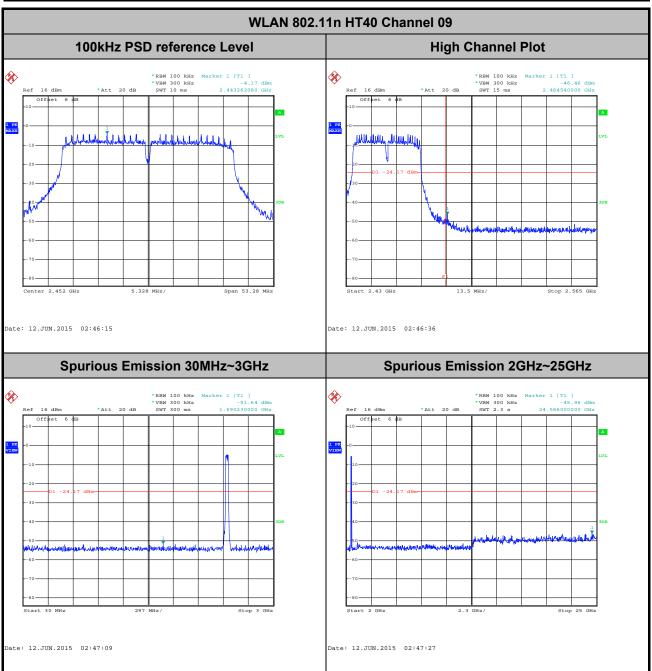
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Test Mode :	802.11n HT40	Temperature :	24~25℃
Test Band :	2.4GHz Mid	Relative Humidity :	49~51%
Test Channel :	06	Test Engineer :	jacky huang



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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 :	jacky huang



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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 for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively 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	97.63	8.24	0.12	300Hz
802.11g	87.31	1.36	0.73	1kHz
2.4GHz 802.11n HT20	86.41	1.27	0.79	1kHz
2.4GHz 802.11n HT40	76.08	0.64	1.57	3kHz

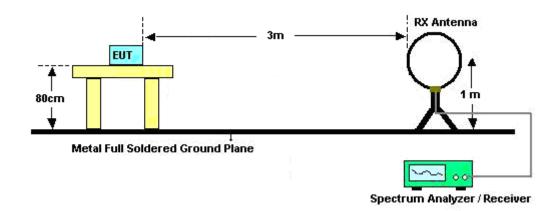
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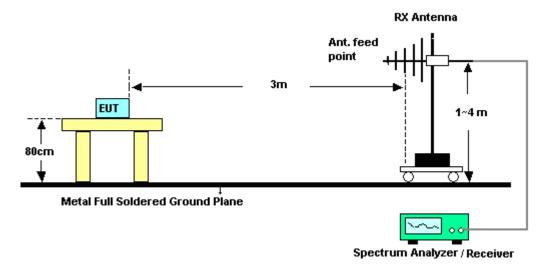
FCC RF Test Report

3.5.4 Test Setup

For radiated emissions below 30MHz

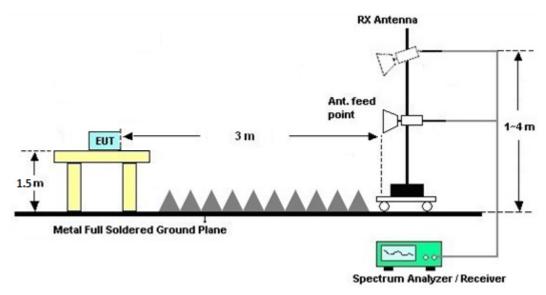


For radiated emissions from 30MHz to 1GHz



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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 B.

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

Please refer to Appendix B.

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AC Conducted Emission Measurement 3.6

Limit of AC Conducted Emission 3.6.1

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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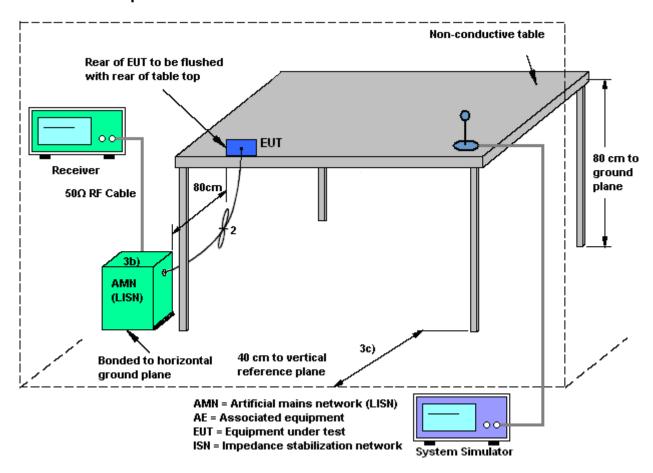
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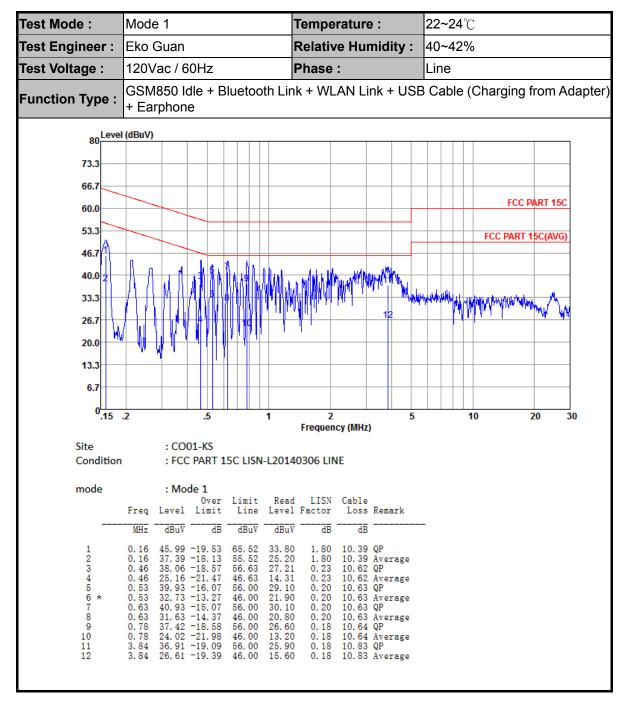
FCC RF T

3.6.4 Test Setup

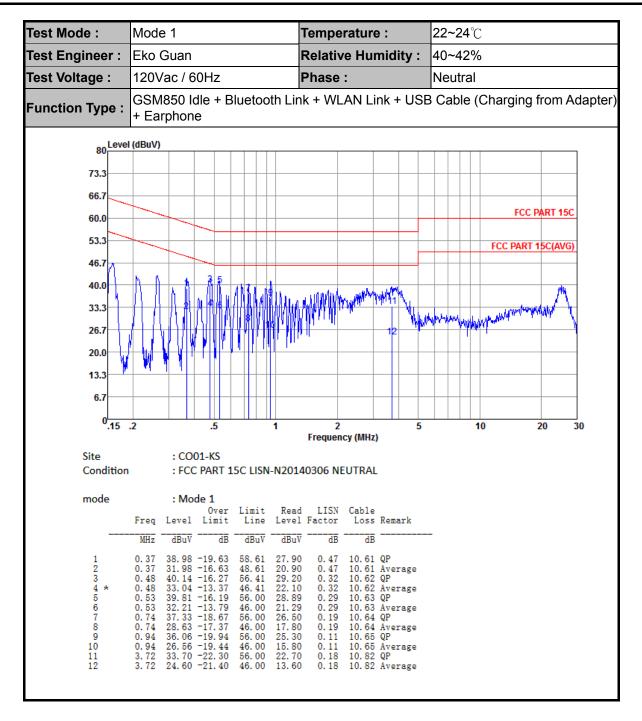


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3.6.5 Test Result of AC Conducted Emission



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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	Jun. 12, 2015	Oct. 27, 2015	Conducted (TH01-KS)
Pulse Power Senor	Anritsu	MA2411B	0917070	30MHz~40GHz	Jan. 23, 2015	Jun. 12, 2015	Jan. 22, 2016	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 23, 2015	Jun. 12, 2015	Jan. 22, 2016	Conducted (TH01-KS)
EMI Test Receiver	R&S	ESR7	101403	9kHz~7GHz;Ma x 30dBm	Sep. 29, 2014	Jun. 17, 2015	Sep. 28, 2015	Radiation (03CH02-KS)
Spectrum Analyzer	R&S	FSV40	101040	10kHz~40GHz; Max 30dBm	Sep. 25, 2014	Jun. 17, 2015	Sep. 24, 2015	Radiation (03CH02-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Nov. 13, 2014	Jun. 17, 2015	Nov. 12, 2015	Radiation (03CH02-KS)
Bilog Antenna	TeseQ	CBL6112D	37879	30MHz-2GHz	Sep. 13, 2014	Jun. 17, 2015	Sep. 12, 2015	Radiation (03CH02-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75957	1GHz~18GHz	Nov. 08, 2014	Jun. 17, 2015	Nov. 07, 2015	Radiation (03CH02-KS)
Active Horn Antenna	com-power	AHA-118	701030	1GHz~18GHz	Nov. 08, 2014	Jun. 17, 2015	Nov. 07, 2015	Radiation (03CH02-KS)
SHF-EHF Horn	com-power	AH-840	101070	18Ghz-40GHz	Sep. 04, 2014	Jun. 17, 2015	Sep. 03, 2015	Radiation (03CH02-KS)
Amplifier	com-power	PA-103A	161069	1kHz~1000MHz / 32 dB	May 04, 2015	Jun. 17, 2015	May 03, 2016	Radiation (03CH02-KS)
Amplifier	Agilent	8449B	3008A023 84	1GHz~26.5GHz Gain 30dB	Oct. 28, 2014	Jun. 17, 2015	Oct. 27, 2015	Radiation (03CH02-KS)
AC Power Source	Chroma	61601	616010002 473	N/A	NCR	Jun. 17, 2015	NCR	Radiation (03CH02-KS)
Turn Table	MF	MF7802	N/A	0~360 degree	NCR	Jun. 17, 2015	NCR	Radiation (03CH02-KS)
Antenna Mast	MF	MF7802	N/A	1 m~4 m	NCR	Jun. 17, 2015	NCR	Radiation (03CH02-KS)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	May 04, 2015	Jun. 09, 2015	May 03, 2016	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060103	9kHz~30MHz	Oct. 25, 2014	Jun. 09, 2015	Oct. 24, 2015	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060105	9kHz~30MHz	Oct. 25, 2014	Jun. 09, 2015	Oct. 24, 2015	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP00000 0811	AC 0V~300V, 45Hz~1000Hz	Oct. 25, 2014	Jun. 09, 2015	Oct. 24, 2015	Conduction (CO01-KS)

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5 Uncertainty of Evaluation

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

<u>Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)</u>

Measuring Uncertainty for a Level of	5.1 dB
Confidence of 95% (U = 2Uc(y))	5.1 UB

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Appendix A. Conducted Test Results

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Test Engineer:	jacky huang	Temperature:	21~25	°C
Test Date:	2015/6/12	Relative Humidity:	51~54	%

TEST RESULTS DATA 6dB and 99% Occupied Bandwidth

					2.4GHz Band	ı						
	Z. TO 1/2 Daild											
Mod.	Data Rate	NTX	СН.	Freq. Occupied 6dB BW (MHz)		6dB BW Limit (MHz)	Pass/Fail					
11b	1Mbps	1	1	2412	13.20	8.04	0.50	Pass				
11b	1Mbps	1	6	2437	13.25	8.08	0.50	Pass				
11b	1Mbps	1	11	2462	13.30	8.08	0.50	Pass				
11g	6Mbps	1	1	2412	17.95	16.32	0.50	Pass				
11g	6Mbps	1	6	2437	18.25	16.36	0.50	Pass				
11g	6Mbps	1	11	2462	18.15	16.36	0.50	Pass				
HT20	MCS0	1	1	2412	18.85	17.56	0.50	Pass				
HT20	MCS0	1	6	2437	18.80	17.60	0.50	Pass				
HT20	MCS0	1	11	2462	18.85	17.56	0.50	Pass				
HT40	MCS0	1	3	2422	36.30	35.12	0.50	Pass				
HT40	MCS0	CS0 1 6		2437	36.50	35.44	0.50	Pass				
HT40	MCS0 1 9		2452	36.30	35.52	0.50	Pass					

TEST RESULTS DATA Peak Power Table

	2.4GHz Band													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail				
11b	1Mbps	1	1	2412	17.78	30.00	-1.00	16.78	36.00	Pass				
11b	1Mbps	1	6	2437	16.72	30.00	-1.00	15.72	36.00	Pass				
11b	1Mbps	1	11	2462	16.96	30.00	-1.00	15.96	36.00	Pass				
11g	6Mbps	1	1	2412	21.52	30.00	-1.00	20.52	36.00	Pass				
11g	6Mbps	1	6	2437	21.43	30.00	-1.00	20.43	36.00	Pass				
11g	6Mbps	1	11	2462	20.88	30.00	-1.00	19.88	36.00	Pass				
HT20	MCS0	1	1	2412	19.97	30.00	-1.00	18.97	36.00	Pass				
HT20	MCS0	1	6	2437	19.73	30.00	-1.00	18.73	36.00	Pass				
HT20	MCS0	1	11	2462	19.21	30.00	-1.00	18.21	36.00	Pass				
HT40	MCS0	1	3	2422	19.07	30.00	-1.00	18.07	36.00	Pass				
HT40	MCS0	1	6	2437	19.21	30.00	-1.00	18.21	36.00	Pass				
HT40	MCS0	1	9	2452	19.93	30.00	-1.00	18.93	36.00	Pass				

TEST RESULTS DATA Average Power Table (Reporting Only)

			:	2.4GHz	Band											
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)										
11b	1Mbps	1	1	2412	0.10	14.99										
11b	1Mbps	1	6	2437	0.10	14.02										
11b	1Mbps	1	11	2462	0.10	14.16										
11g	6Mbps	6Mbps	6Mbps	6Mbps	6Mbps	6Mbps	•	•		•		1	1	2412	0.59	13.03
11g	6Mbps	1	6	2437	0.59	12.00										
11g	6Mbps	1	11	2462	0.59	12.37										
HT20	MCS0	1	1	2412	0.63	10.31										
HT20	MCS0	1	6	2437	0.63	9.19										
HT20	MCS0	1	11	2462	0.63	9.61										
HT40	MCS0	1	3	2422	1.19	8.80										
HT40	MCS0	1	6	2437	1.19	8.92										
HT40	MCS0	1	9	2452	1.19	9.67										

TEST RESULTS DATA Peak Power Density

					2.4GHz Band	d		
		1					1	
Mod.	Data Rate	N τx	CH.	Freq. (MHz)	Peak PSD (dBm /3kHz)	DG (dBi)	Peak PSD Limit (dBm /3kHz)	Pass/Fail
11b	1Mbps	1	1	2412	-7.27	-1.00	8.00	Pass
11b	1Mbps	1	6	2437	-7.23	-1.00	8.00	Pass
11b	1Mbps	1	11	2462	-8.69	-1.00	8.00	Pass
11g	6Mbps	1	1	2412	-11.88	-1.00	8.00	Pass
11g	6Mbps	1	6	2437	-11.75	-1.00	8.00	Pass
11g	6Mbps	1	11	2462	-13.62	-1.00	8.00	Pass
HT20	MCS0	1	1	2412	-15.27	-1.00	8.00	Pass
HT20	MCS0	1	6	2437	-15.93	-1.00	8.00	Pass
HT20	MCS0	1	11	2462	-15.04	-1.00	8.00	Pass
HT40	MCS0	1	3	2422	-17.80	-1.00	8.00	Pass
HT40	MCS0	1	6	2437	-18.95	-1.00	8.00	Pass
HT40	MCS0	1	9	2452	-18.64	-1.00	8.00	Pass

Appendix B. Radiated Test Results

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.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		2319.81	52.45	-21.55	74	47.61	31.23	6.06	32.45	156	154	Р	Н
		2331.96	37.78	-16.22	54	32.88	31.23	6.12	32.45	156	154	Α	Н
000 445	*	2410.771	103.18	-	-	97.94	31.31	6.22	32.29	156	154	Р	Н
802.11b CH 01	*	2412.608	97.72	-	-	92.48	31.31	6.22	32.29	156	154	Α	Н
2412MHz		2331.69	52.45	-21.55	74	47.55	31.23	6.12	32.45	158	92	Р	V
2412111112		2327.55	37.67	-16.33	54	32.77	31.23	6.12	32.45	158	92	Α	V
	*	2410.771	106.08	-	-	100.84	31.31	6.22	32.29	158	92	Р	V
	*	2412.608	101.13	-	1	95.89	31.31	6.22	32.29	158	92	Α	V
	*	2438.159	101.85	-	1	96.44	31.34	6.22	32.15	247	142	Р	Н
802.11b	*	2437.992	96.75	-	-	91.34	31.34	6.22	32.15	247	142	Α	Н
CH 06 2437MHz	*	2435.655	103.61	-	-	98.28	31.33	6.22	32.22	152	95	Р	V
2437191112	*	2438.076	98.28	ı	1	92.87	31.34	6.22	32.15	152	95	Α	V
	*	2460.621	102.95	-	ı	97.4	31.36	6.28	32.09	163	149	Р	Н
	*	2462.208	96.67	-	ı	91.12	31.36	6.28	32.09	163	149	Α	Н
000 445		2499.72	52.61	-21.39	74	46.84	31.39	6.33	31.95	163	149	Р	Н
802.11b CH 11		2484.6	37.97	-16.03	54	32.29	31.37	6.33	32.02	163	149	Α	Н
2462MHz	*	2460.705	105.99	-	1	100.44	31.36	6.28	32.09	160	142	Р	V
2702191112	*	2460.287	100.03	-	-	94.48	31.36	6.28	32.09	160	142	Α	V
		2486.48	52.6	-21.4	74	46.92	31.37	6.33	32.02	160	142	Р	V
		2483.84	38.7	-15.3	54	33.02	31.37	6.33	32.02	160	142	Α	V
Remark	No other spurious found. All results are PASS against Peak and Average limit line.												

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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.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b		4824	46.66	-27.34	74	37.77	34.89	8.73	34.73	153	67	Р	Н
CH 01													
2412MHz		4824	47.28	-26.72	74	38.39	34.89	8.73	34.73	174	98	Р	V
000 441		4875	45.65	-28.35	74	36.6	34.92	8.76	34.63	169	84	Р	Н
802.11b CH 06		7311	46.24	-27.76	74	35.89	35.56	10.84	36.05	167	226	Р	Н
2437MHz		4875	46.11	-27.89	74	37.06	34.92	8.76	34.63	153	24	Р	V
2407111112		7311	46.09	-27.91	74	35.74	35.56	10.84	36.05	167	223	Р	V
000 445		4923	45.44	-28.56	74	36.22	34.95	8.79	34.52	169	201	Р	Н
802.11b CH 11		7386	46.76	-27.24	74	36.68	35.58	10.89	36.39	187	226	Р	Н
2462MHz		4923	47.18	-26.82	74	37.96	34.95	8.79	34.52	163	261	Р	V
2402111112		7386	47.04	-26.96	74	36.96	35.58	10.89	36.39	159	305	Р	V

Remark

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I. 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.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)		(H/V)
		2389.83	55.9	-18.1	74	50.79	31.3	6.17	32.36	192	95	Р	Н
		2390	39.24	-14.76	54	34.13	31.3	6.17	32.36	192	95	Α	Н
000 44 =	*	2414.78	105.89	-	1	100.65	31.31	6.22	32.29	192	95	Р	Н
802.11g CH 01	*	2414.112	94.02	-	-	88.78	31.31	6.22	32.29	192	95	Α	Н
2412MHz		2361.39	52.34	-21.66	74	47.32	31.26	6.17	32.41	158	142	Р	V
2412111112		2346.72	38.14	-15.86	54	33.2	31.25	6.12	32.43	158	142	Α	V
	*	2416.032	93.57	-	-	88.33	31.31	6.22	32.29	158	142	Р	V
	*	2415.364	80.95	-	ı	75.71	31.31	6.22	32.29	158	142	Α	V
802.11g CH 06 2437MHz	*	2440.08	104.69	-	ı	99.22	31.34	6.28	32.15	211	151	Р	Н
	*	2441.583	93.13	-	ı	87.66	31.34	6.28	32.15	211	151	Α	Н
	*	2443.253	96.01	ı	1	90.54	31.34	6.28	32.15	229	355	Р	V
2407111112	*	2442.167	84.59	-	-	79.12	31.34	6.28	32.15	229	355	Α	V
	*	2456.446	105.79	-	-	100.24	31.36	6.28	32.09	151	78	Р	Н
	*	2458.199	93.49	-	-	87.94	31.36	6.28	32.09	151	78	Α	Н
000 44	!	2483.6	68.97	-5.03	74	63.29	31.37	6.33	32.02	151	78	Р	Н
802.11g CH 11		2483.6	44.45	-9.55	54	38.77	31.37	6.33	32.02	151	78	Α	Н
2462MHz	*	2467.051	100.12	-	1	94.57	31.36	6.28	32.09	211	122	Р	V
2402111112	*	2458.45	88.43	-	ı	82.88	31.36	6.28	32.09	211	122	Α	V
		2483.72	67.81	-6.19	74	62.13	31.37	6.33	32.02	211	122	Р	V
		2483.52	43.67	-10.33	54	37.99	31.37	6.33	32.02	211	122	Α	V
Remark		o other spurio I results are P		st Peak	and Averag	ge limit lin	e.						

SPORTON INTERNATIONAL (KUNSHAN) INC.

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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.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11g		4824	47.24	-26.76	74	38.35	34.89	8.73	34.73	150	311	Р	Н
CH 01													
2412MHz		4824	46.31	-27.69	74	37.42	34.89	8.73	34.73	150	215	Р	V
000.44		4875	47.1	-26.9	74	38.05	34.92	8.76	34.63	150	124	Р	Н
802.11g		7311	45.64	-28.36	74	35.29	35.56	10.84	36.05	150	236	Р	Н
CH 06 2437MHz		4875	47.52	-26.48	74	38.47	34.92	8.76	34.63	150	246	Р	V
240711112		7311	46.01	-27.99	74	35.66	35.56	10.84	36.05	150	164	Р	V
000 44 =		4923	46.71	-27.29	74	37.49	34.95	8.79	34.52	150	124	Р	Н
802.11g CH 11 CH 2462MHz -		7386	45.89	-28.11	74	35.81	35.58	10.89	36.39	150	134	Р	Н
		4923	47.24	-26.76	74	38.02	34.95	8.79	34.52	150	0	Р	V
2402111112		7386	46.35	-27.65	74	36.27	35.58	10.89	36.39	150	345	Р	V

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^{1.} No other spurious found.

Remark

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
Ant.	Note	Frequency	Level	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	POI.
1		(MHz)	(dBµV/m)		(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		2363.1	52.24	-21.76	74	47.22	31.26	6.17	32.41	157	153	Р	Н
		2366.7	38.15	-15.85	54	33.13	31.26	6.17	32.41	157	153	Α	Н
802.11n	*	2407.348	100.33	-	1	95.09	31.31	6.22	32.29	157	153	Р	Н
HT20	*	2408.768	88.21	-	ı	82.97	31.31	6.22	32.29	157	153	Α	Н
CH 01		2311.98	53.35	-20.65	74	48.55	31.21	6.06	32.47	249	116	Р	V
2412MHz		2389.83	38.14	-15.86	54	33.03	31.3	6.17	32.36	249	116	Α	V
	*	2417.201	101.55	-	1	96.31	31.31	6.22	32.29	249	116	Р	V
	*	2418.37	90.05	-	1	84.81	31.31	6.22	32.29	249	116	Α	V
802.11n	*	2430.979	97.16	-	ı	91.83	31.33	6.22	32.22	150	144	Р	Н
HT20	*	2432.815	85.55	-	1	80.22	31.33	6.22	32.22	150	144	Α	Н
CH 06	*	2432.648	101.82	-	1	96.49	31.33	6.22	32.22	150	106	Р	V
2437MHz	*	2442.251	89.48	-	1	84.01	31.34	6.28	32.15	150	106	Α	V
	*	2465.213	101.4	-	-	95.85	31.36	6.28	32.09	150	164	Р	Н
	*	2466.216	89	-	-	83.45	31.36	6.28	32.09	150	164	Α	Н
802.11n		2483.64	63.69	-10.31	74	58.01	31.37	6.33	32.02	150	164	Р	Н
HT20		2483.6	40.3	-13.7	54	34.62	31.37	6.33	32.02	150	164	Α	Н
CH 11	*	2455.528	102.95	-	-	97.4	31.36	6.28	32.09	181	138	Р	V
2462MHz	*	2457.949	91.51	-	-	85.96	31.36	6.28	32.09	181	138	Α	V
		2484.72	62.58	-11.42	74	56.9	31.37	6.33	32.02	181	138	Р	V
		2483.52	41.14	-12.86	54	35.46	31.37	6.33	32.02	181	138	Α	V
Remark	No other spurious found.												

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.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n		4824	45.18	-28.82	74	36.29	34.89	8.73	34.73	150	134	Р	н
HT20		4024	40.10	-20.02	7 7	50.25	54.00	0.7	04.70	100	5		
CH 01		4004	47.07	26.72	74	20.20	24.00	0.70	24.72	150	245	Р	V
2412MHz		4824	47.27	-26.73	74	38.38	34.89	8.73	34.73	150	245	Р	V
802.11n		4875	46.44	-27.56	74	37.39	34.92	8.76	34.63	150	345	Р	Н
HT20		7311	46.49	-27.51	74	36.14	35.56	10.84	36.05	150	0	Р	Н
CH 06		4875	46.05	-27.95	74	37	34.92	8.76	34.63	150	240	Р	V
2437MHz		7311	46.49	-27.51	74	36.14	35.56	10.84	36.05	150	120	Р	V
802.11n		4923	45.82	-28.18	74	36.6	34.95	8.79	34.52	150	16	Р	Н
HT20		7386	46.39	-27.61	74	36.31	35.58	10.89	36.39	150	0	Р	Н
CH 11		4923	47.53	-26.47	74	38.31	34.95	8.79	34.52	150	187	Р	V
2462MHz		7386	45.46	-28.54	74	35.38	35.58	10.89	36.39	150	125	Р	V
					_						-		

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Remark 1. No other spurious found.
2. All results are PASS again

All results are PASS against Peak and Average limit line.

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.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		2310.99	52.94	-21.06	74	48.14	31.21	6.06	32.47	188	72	Р	Н
		2389.92	39.63	-14.37	54	34.52	31.3	6.17	32.36	188	72	Α	Н
	*	2407.849	99.26	-	-	94.02	31.31	6.22	32.29	188	72	Р	Н
	*	2409.853	88.26	-	-	83.02	31.31	6.22	32.29	188	72	Α	Н
802.11n		2492.76	53.28	-20.72	74	47.51	31.39	6.33	31.95	188	72	Р	Н
HT40		2484.6	39.7	-14.3	54	34.02	31.37	6.33	32.02	188	72	Α	Н
CH 03		2331.15	53	-21	74	48.1	31.23	6.12	32.45	150	192	Р	V
2422MHz		2328.18	39.27	-14.73	54	34.37	31.23	6.12	32.45	150	192	Α	V
	*	2412.107	93.13	-	-	87.89	31.31	6.22	32.29	150	192	Р	V
	*	2411.105	81.99	-	1	76.75	31.31	6.22	32.29	150	192	Α	V
		2489.36	52.72	-21.28	74	46.95	31.39	6.33	31.95	150	192	Р	V
		2487.2	39.26	-14.74	54	33.58	31.37	6.33	32.02	150	192	Α	V
		2377.32	52.52	-21.48	74	47.45	31.28	6.17	32.38	160	274	Р	Н
		2334.03	38.99	-15.01	54	34.09	31.23	6.12	32.45	160	274	Α	Н
	*	2445.925	99.82	-	-	94.35	31.34	6.28	32.15	160	274	Р	Н
	*	2448.513	88.06	-	-	82.59	31.34	6.28	32.15	160	274	Α	Н
802.11n		2484.52	52.94	-21.06	74	47.26	31.37	6.33	32.02	160	274	Р	Н
HT40		2483.56	39.59	-14.41	54	33.91	31.37	6.33	32.02	160	274	Α	Н
CH 06		2389.11	52.39	-21.61	74	47.28	31.3	6.17	32.36	181	121	Р	V
2437MHz		2368.32	38.85	-15.15	54	33.83	31.26	6.17	32.41	181	121	Α	V
	*	2425.301	94.18	-	-	88.85	31.33	6.22	32.22	181	121	Р	V
	*	2424.466	82.19	-	-	76.86	31.33	6.22	32.22	181	121	Α	V
		2485.76	53.37	-20.63	74	47.69	31.37	6.33	32.02	181	121	Р	V
		2485.52	39.32	-14.68	54	33.64	31.37	6.33	32.02	181	121	Α	V

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-21.08 31.26 2362.56 52.92 74 47.9 6.17 32.41 165 269 Ρ Н 2330.07 38.87 -15.13 33.97 31.23 6.12 32.45 165 269 54 Α Н * 2444.589 98.97 93.5 31.34 6.28 32.15 165 269 Η 31.34 2449.265 87.92 82.45 6.28 32.15 165 269 Α Н 2485.08 62.08 -11.92 74 56.4 31.37 6.33 32.02 165 269 Ρ Н 802.11n 2484.08 42.23 36.55 31.37 32.02 165 HT40 -11.77 54 6.33 269 Α Η **CH 09** 2385.78 52.33 -21.67 74 47.22 31.3 6.17 32.36 297 187 Ρ ٧ 2452MHz 2379.3 31.28 ٧ 39.02 -14.98 33.95 6.17 32.38 297 187 54 Α 2454.776 31.36 6.28 32.09 ٧ 93.88 88.33 297 187 2450.017 82.77 77.3 31.34 6.28 32.15 297 ٧ -_ 187 Α 31.37 32.02 2483.72 56.57 -17.43 74 50.89 6.33 297 187 Ρ ٧ V 2483.56 39.55 -14.45 54 33.87 31.37 6.33 32.02 297 187 Α

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 HT40 (Harmonic @ 3m)

WIFI Note Frequency Level Over Limit Read Antenna Cable Preamp Ant Tab Ant. Limit Line Level Factor Loss Factor Pos Pos 1 (MHz) (dBμV/m) (dB) (dBμV/m) (dBμV) (dB/m) (dB) (dB) (cm) (de)	Avg.	
1 (MHz) (dBμV/m) (dB) (dBμV/m) (dBμV) (dB/m) (dB) (dB) (cm) (de) (P/A)	4100
		(H/V)
802.11n 4845 46.57 -27.43 74 37.64 34.9 8.73 34.7 165 20	Р	Н
HT40 7266 46.72 -27.28 74 36.27 35.56 10.81 35.92 160 64	Р	Н
CH 03 4845 45.98 -28.02 74 37.05 34.9 8.73 34.7 210 196	Р	V
2422MHz 7266 46.66 -27.34 74 36.21 35.56 10.81 35.92 175 100	Р	V
802.11n 4875 46.45 -27.55 74 37.4 34.92 8.76 34.63 156 95	Р	Н
HT40 7311 47.52 -26.48 74 37.17 35.56 10.84 36.05 196 146	Р	Н
CH 06 4875 46.13 -27.87 74 37.08 34.92 8.76 34.63 170 30	Р	V
2437MHz 7311 47.23 -26.77 74 36.88 35.56 10.84 36.05 230 16	Р	V
802.11n 4905 46.43 -27.57 74 37.26 34.94 8.79 34.56 188 0	Р	Н
HT40 7356 46.6 -27.4 74 36.43 35.57 10.86 36.26 210 12	Р	Н
CH 09 4905 47.44 -26.56 74 38.27 34.94 8.79 34.56 169 26	Р	V
2452MHz 7356 46.29 -27.71 74 36.12 35.57 10.86 36.26 195 246	Р	V

Remark

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^{1.} No other spurious found.

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

15C Emission below 1GHz 2.4GHz WIFI 802.11b (LF)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		31.94	24.7	-15.3	40	38.34	18.22	0.79	32.65	-	-	P	Н
		81.41	29.84	-10.16	40	52.23	9.21	1.04	32.64	124	20	P	Н
		149.31	27.67	-15.83	43.5	47.1	11.69	1.44	32.56	-	ı	P	Н
		162.89	25.05	-18.45	43.5	44.93	11.22	1.44	32.54	-	ı	P	Н
		207.51	27.58	-15.92	43.5	48.3	10.15	1.61	32.48	-	ı	P	Н
2.4GHz 802.11b		249.22	21.18	-24.82	46	39.83	12.06	1.75	32.46	-	ı	P	Н
LF		30	33.62	-6.38	40	46.29	19.2	0.79	32.66	106	42	P	V
		67.83	31.09	-8.91	40	55.15	7.78	0.79	32.63	-	-	P	V
		80.44	33.35	-6.65	40	55.86	9.1	1.04	32.65	-	-	P	V
		163.86	25.65	-17.85	43.5	45.57	11.18	1.44	32.54	-	-	P	V
		179.38	26.39	-17.11	43.5	46.84	10.58	1.44	32.47	-	ı	P	V
		205.57	34.43	-9.07	43.5	55.23	10.07	1.61	32.48	-	-	P	V
Remark		o other spurio		at limit li	no								
	2. Al	i results are F	ASS ayalli	5t 111111t II	IIC.								

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15C Emission below 1GHz 2.4GHz WIFI 802.11g (LF)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol
Ant.	Note	requeries	LCVCI	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	1 01.
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)		(P/A)	(H/V)
		31.94	23.82	-16.18	40	37.46	18.22	0.79	32.65	ı	-	Р	Н
		42.61	16.6	-23.4	40	35.68	12.77	0.79	32.64	1	-	Р	Н
		78.5	24.84	-15.16	40	47.51	8.94	1.04	32.65	102	65	Р	Н
		148.34	21.83	-21.67	43.5	41.27	11.68	1.44	32.56	-	-	Р	Н
		160.95	20.72	-22.78	43.5	40.54	11.29	1.44	32.55	-	-	Р	Н
2.4GHz		203.63	26.06	-17.44	43.5	46.95	9.98	1.61	32.48	-	-	Р	Н
802.11g LF		30	32.36	-7.64	40	45.03	19.2	0.79	32.66	100	0	Р	٧
L.		41.64	24.23	-15.77	40	42.78	13.28	0.79	32.62	-	-	Р	V
		67.83	29.69	-10.31	40	53.75	7.78	0.79	32.63	-	-	Р	V
		81.41	32.33	-7.67	40	54.72	9.21	1.04	32.64	-	-	Р	٧
		152.22	25.37	-18.13	43.5	44.86	11.63	1.44	32.56	-	-	Р	٧
		204.6	35.08	-8.42	43.5	55.93	10.02	1.61	32.48	-	-	Р	٧
Remark		o other spurio		st limit li	ne.								

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All results are PASS against limit line.

15C Emission below 1GHz

2.4GHz WIFI 802.11n HT20 (LF)

		Pol.
Pos	Avg.	
) (deg)	(P/A)	(H/V)
-	Р	Н
-	Р	Н
200	Р	Н
-	Р	Н
-	Р	Н
-	Р	Н
65	Р	٧
-	Р	٧
-	Р	V
-	Р	٧
-	Р	V
-	Р	V
	-	- P

Remark 2.

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^{1.} No other spurious found.

All results are PASS against limit line.

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.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		30	24.29	-15.71	40	36.96	19.2	0.79	32.66	-	-	Р	Н
		41.64	16.51	-23.49	40	35.06	13.28	0.79	32.62	ı	-	Р	Н
		74.62	24.78	-15.22	40	47.78	8.61	1.04	32.65	187	200	Р	Н
		149.31	27.83	-15.67	43.5	47.26	11.69	1.44	32.56	ı	-	Р	Н
2.4GHz		162.89	24.31	-19.19	43.5	44.19	11.22	1.44	32.54	-	-	Р	Н
802.11n		203.63	26.94	-16.56	43.5	47.83	9.98	1.61	32.48	ı	-	Р	Н
HT40	!	30	34.44	-5.56	40	47.11	19.2	0.79	32.66	100	201	Р	٧
LF		57.16	26.65	-13.35	40	51.58	6.88	0.79	32.6	-	-	Р	٧
		65.89	29.88	-10.12	40	54.33	7.36	0.79	32.6	-	-	Р	٧
		80.44	32.61	-7.39	40	55.12	9.1	1.04	32.65	-	-	Р	٧
		178.41	24.88	-18.62	43.5	45.29	10.62	1.44	32.47	ı	-	Р	٧
		204.6	35.06	-8.44	43.5	55.91	10.02	1.61	32.48	-	-	Р	٧
			•	-	•						•	•	

Remark

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^{1.} No other spurious found.

^{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.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dB _µ V)	(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(dBµV) 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)
- $= 32.22(dB/m) + 4.58(dB) + 42.6(dB\mu V) 35.86 (dB)$
- $= 43.54 (dB\mu V/m)$
- Over Limit(dB)
- = Level($dB\mu V/m$) Limit Line($dB\mu V/m$)
- $= 43.54(dB\mu V/m) 54(dB\mu V/m)$
- = -10.46(dB)

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

SPORTON INTERNATIONAL (KUNSHAN) INC.

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