FCC RF Test Report

APPLICANT : BLU Products, Inc.

EQUIPMENT: Mobile phone

BRAND NAME : BLU

MODEL NAME : STUDIO SELFIE 2

MARKETING NAME : STUDIO SELFIE 2

FCC ID : YHLBLUSTSELFIE2

STANDARD : FCC Part 15 Subpart C §15.247

CLASSIFICATION : (DTS) Digital Transmission System

The product was received on Feb. 20, 2016 and testing was completed on Mar. 14, 2016. We, SPORTON INTERNATIONAL (SHENZHEN) 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 (SHENZHEN) INC., the test report shall not be reproduced except in full.

Prepared by: Andy Yeh / Manager

Andy Jeh

Approved by: Jones Tsai / Manager

SPORTON INTERNATIONAL (SHENZHEN) INC.

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SPORTON INTERNATIONAL (SHENZHEN) INC.

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Testing Laboratory 2353

Report No.: FR622002C

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR622002C	Rev. 01	Initial issue of report	Mar. 18, 2016

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SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.1	15.247(a)(2)	RSS-247 5.2(1)	6dB Bandwidth	≥ 0.5MHz	Pass	-
3.1	-	RSS-Gen 6.6	99% Bandwidth	-	Pass	-
3.2	15.247(b)	RSS-247 A5.4(4)	Power Output Measurement	≤ 30dBm	Pass	-
3.3	15.247(e)	RSS-247 5.2(2)	Power Spectral Density	≤ 8dBm/3kHz	Pass	-
3.4	15.247(d)	RSS-247	Conducted Band Edges	- ≤ 20dBc	Pass	-
3.4	13.247(d)	5.5	Conducted Spurious Emission	_ ≤ 20dBC	Pass	-
3.5	15.247(d)	RSS-247 5.5	Radiated Band Edges and Radiated Spurious Emission	15.209(a) & 15.247(d)	Pass	Under limit 3.04 dB at 7311.000 MHz
3.6	15.207	RSS-GEN 8.8	AC Conducted Emission	15.207(a)	Pass	Under limit 15.14 dB at 0.520 MHz
3.7	15.203 & 15.247(b)	N/A	Antenna Requirement	N/A	Pass	-

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1 General Description

1.1 Applicant

BLU Products, Inc.

10814 NW 33rd St # 100 Doral, FL 33172

1.2 Manufacturer

BLU Products, Inc.

10814 NW 33rd St # 100 Doral, FL 33172

1.3 Product Feature of Equipment Under Test

F	roduct Feature
Equipment	Mobile phone
Brand Name	BLU
Model Name	STUDIO SELFIE 2
Marketing Name	STUDIO SELFIE 2
FCC ID	YHLBLUSTSELFIE2
	GSM/GPRS/EGPRS/WCDMA/HSPA/
Equipment Brand Name Model Name Marketing Name FCC ID EUT supports Radios application IMEI Code HW Version SW Version	HSPA+(16QAM uplink is not supported)
LOT supports radios application	WLAN2.4GHz 802.11b/g/n HT20/HT40
	Bluetooth v3.0+EDR/Bluetooth v4.0 LE
	Conducted: 868047010033944/868047010033951
IMEI Code	Conduction:868047010033860/868047010033878
	Radiation: 868047010033803/868047010033811
HW Version	V1.2
SW Version	V0.2
EUT Stage	Pre-Production

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

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1.4 Product Specification of Equipment Under Test

Standards-re	lated Product Specification
Tx/Rx Channel Frequency Range	802.11b/g/n : 2412 MHz ~ 2462 MHz
	802.11b : 16.15 dBm (0.0412 W)
Maximum (Peak) Output Power to	802.11g : 20.15 dBm (0.1035 W)
Antenna	802.11n HT20 : 19.50 dBm (0.0891 W)
	802.11n HT40 : 19.26 dBm (0.0843 W)
	802.11b : 12.54MHz
00% Occupied Bandwidth	802.11g : 17.98MHz
99% Occupied Bandwidth	802.11n HT20 : 18.73MHz
	802.11n HT40 : 36.66MHz
Antenna Type/Gain	PIFA Antenna with gain -6.00 dBi
Type of Madulation	802.11b: DSSS (DBPSK / DQPSK / CCK)
Type of Modulation	802.11g/n: OFDM (BPSK / QPSK / 16QAM / 64QAM)

1.5 Modification of EUT

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

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1.6 Testing Location

Test Site	SPORTON INTERNATIONAL (SHENZHEN) INC.
	1F & 2F,Building A, Morning Business Center, No. 4003 ShiGu Rd., Xili Town,
	Nanshan District, Shenzhen, Guangdong, P. R. China
Test Site Location	TEL: +86-755-8637-9589
	FAX: +86-755-8637-9595
Took Cita No	Sporton Site No.
Test Site No.	TH01-SZ

Test Site	SPORTON INTERNATIO	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						
Took Cita No	Sporton Si	FCC Registration No.					
Test Site No.	03CH03-KS	306251/4086E					

Note: The test site complies with ANSI C63.4 2014 requirement.

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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 v03r04
- ANSI C63.10-2013
- IC RSS-247 Issue 1
- IC RSS-Gen Issue 4

Remark:

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

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2 Test Configuration of Equipment Under Test

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
0400 0400 F MILE	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)									
Pov	ver vs. Char	nel	Power vs. Data Rate							
Channel Frequency Rate		Data Rate 1Mbps	Channel	2Mbps	5.5Mbps	11Mbps				
CH 01	2412 MHz	<mark>16.15</mark>			16.03					
CH 06	2437 MHz	16.06	CH 01	16.14		16.02				
CH 11	2462 MHz	16.07								

	2.4GHz 802.11g RF Output Power (dBm)										
Power vs. Channel			Power vs. Data Rate								
Channel	Frequency (MHz)	Data Rate 6Mbps	Channel	9Mbps	12Mbps	18Mbps	24Mbps	36Mbps	48Mbps	54Mbps	
CH 01	2412 MHz	19.68									
CH 06	2437 MHz	<mark>20.15</mark>	CH 06	19.82	19.60	19.84	19.88	19.85	20.10	20.10	
CH 11	2462 MHz	19.47									

	2.4GHz 802.11n HT20 RF Output Power (dBm)										
Pov	ver vs. Char	nnel		Power vs. MCS Index							
Channel	Frequency (MHz)	MCS Index MCS0	Channel	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	
CH 01	2412 MHz	<mark>19.50</mark>									
CH 06	2437 MHz	19.07	CH 01	19.49	19.48	18.98	18.99	19.49	19.45	19.48	
CH 11	2462 MHz	18.82									

	2.4GHz 802.11n HT40 RF Output Power (dBm)										
Power vs. Channel				Power vs. MCS Index							
Channel	Frequency (MHz)	MCS Index MCS0	Channel	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	
CH 03	2422 MHz	<mark>19.26</mark>									
CH 06	2437 MHz	19.10	CH 03	18.37	18.52	18.44	18.21	19.10	18.89	18.69	
CH 09	2452 MHz	19.13									

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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.

<2.4GHz>

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

Test Cases			
AC Conducted Emission	Mode 1:	GSM850 Idle + Bluetooth Link + WLAN Link + Earphone + USB Cable (Charging from Adapter) + SIM 1	
Remark: For Radiated TCs, The tests were performance with Adapter, Earphone, and USB Cable.			

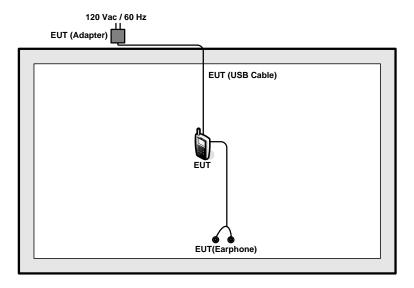
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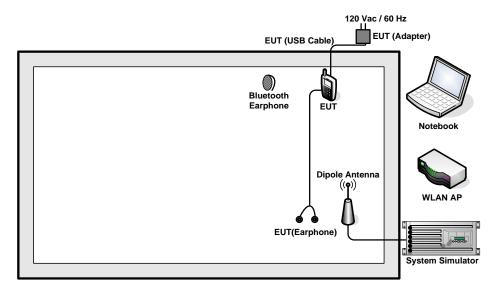
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2.4 Connection Diagram of Test System

<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	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	Bluetooth Earphone	Nokia	BH-108	PYAHS-107W	N/A	N/A
3.	WLAN AP	D-link	DIR-628	KA2DIR628A2	N/A	Unshielded, 1.8 m
4.	Notebook	Lenovo	E540	FCC DoC	N/A	shielded cable DC O/P 1.8 m unshielded AC I/P cable1.2 m

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 and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example:

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

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 5 dB and 10dB attenuator.

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).
=
$$5 + 10 = 15$$
 (dB)

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3 Test Result

3.1 6dB and 99% Bandwidth Measurement

3.1.1 Limit of 6dB and 99% 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

- The testing follows FCC KDB Publication No. 558074 DTS D01 Meas. Guidance v03r04.
- 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. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) = 1MHz and set the Video bandwidth (VBW) = 3MHz.
- 6. Measure and record the results in the test report.

3.1.4 Test Setup

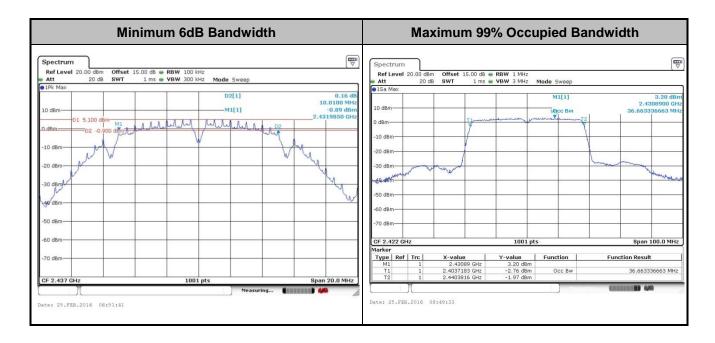


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3.1.5 Test Result of 6dB and 99% Occupied Bandwidth

Please refer to Appendix A of this test report.



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 v03r04 section 9.1.2 PKPM1 Peak power meter method.
- 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

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 v03r04
- 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

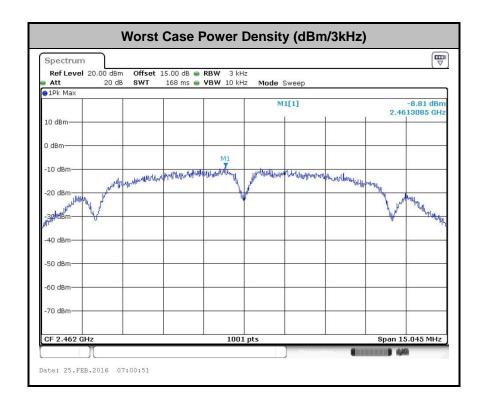


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3.3.5 Test Result of Power Spectral Density

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 v03r04.
- 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.
- The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

3.4.4 Test Setup



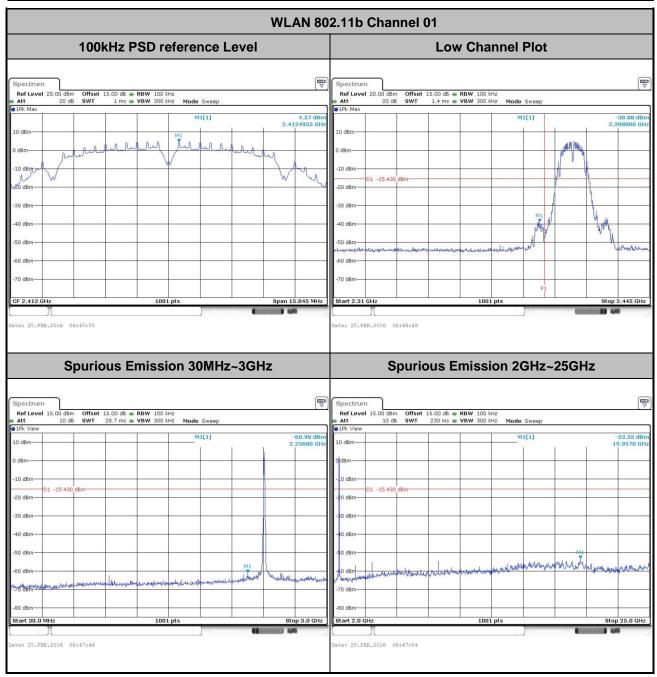
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3.4.5 Test Result of Conducted Band Edges and Spurious Emission

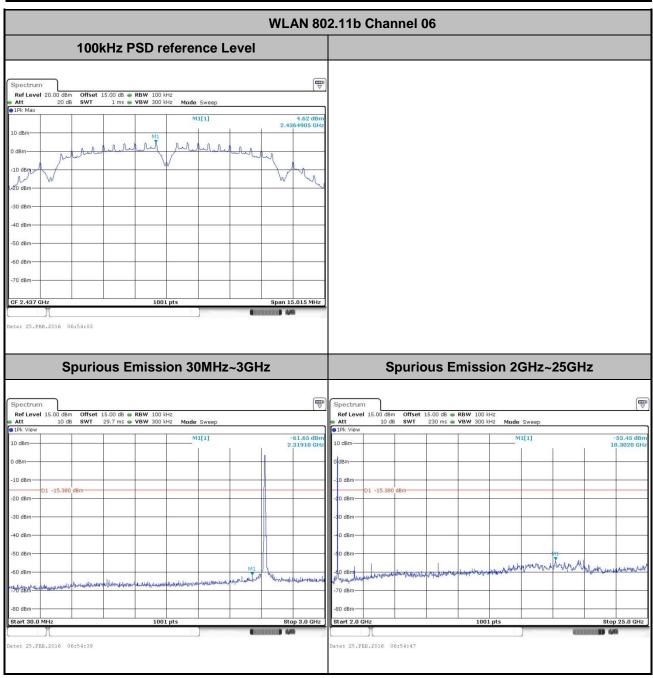
Test Mode :	802.11b	Temperature :	24~26 ℃
Test Band :	2.4GHz Low	Relative Humidity :	50~53%
Test Channel :	01	Test Engineer :	Sam Zheng



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Test Mode :	802.11b	Temperature :	24~26 ℃
Test Band :	2.4GHz Mid	Relative Humidity :	50~53%
Test Channel :	06	Test Engineer :	Sam Zheng

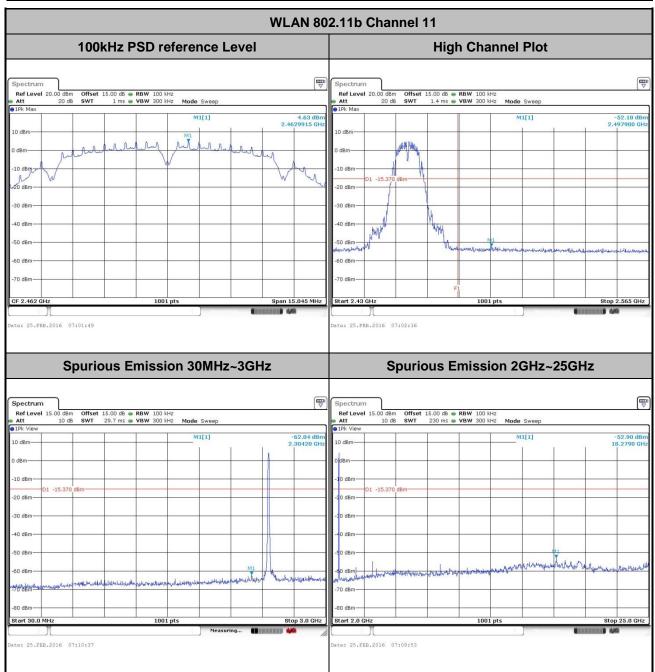


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Test Mode :	802.11b	Temperature :	24~26 ℃
Test Band :	2.4GHz High	Relative Humidity :	50~53%
Test Channel :	11	Test Engineer :	Sam Zheng



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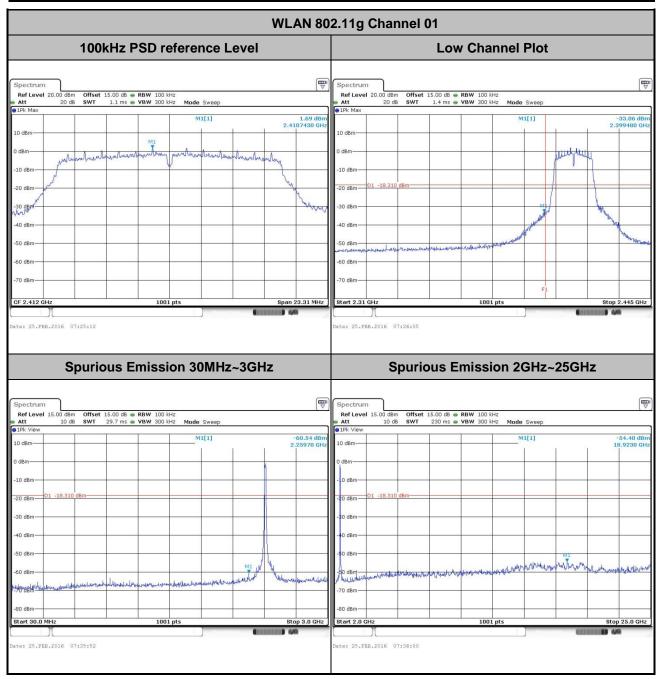
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 Test Mode :
 802.11g
 Temperature :
 24~26℃

 Test Band :
 2.4GHz Low
 Relative Humidity :
 50~53%

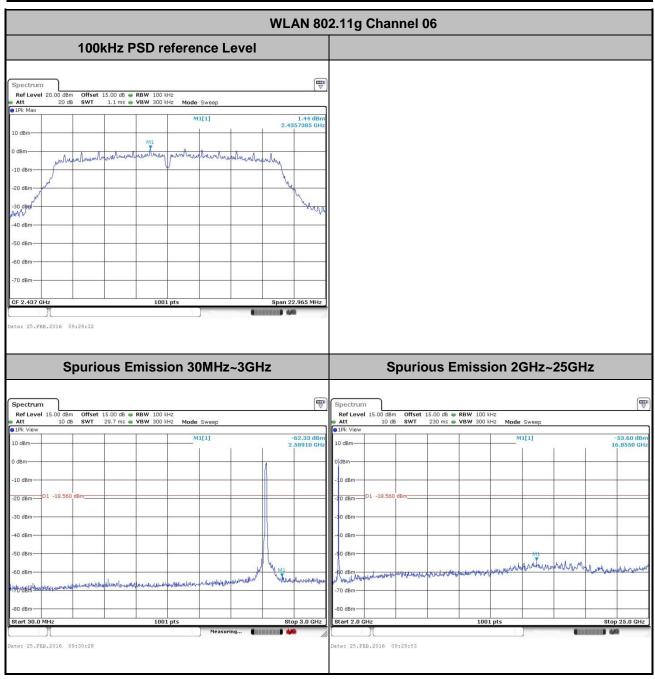
 Test Channel :
 01
 Test Engineer :
 Sam Zheng



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Test Mode :	802.11g	Temperature :	24~26 ℃
Test Band :	2.4GHz Mid	Relative Humidity :	50~53%
Test Channel :	06	Test Engineer :	Sam Zheng



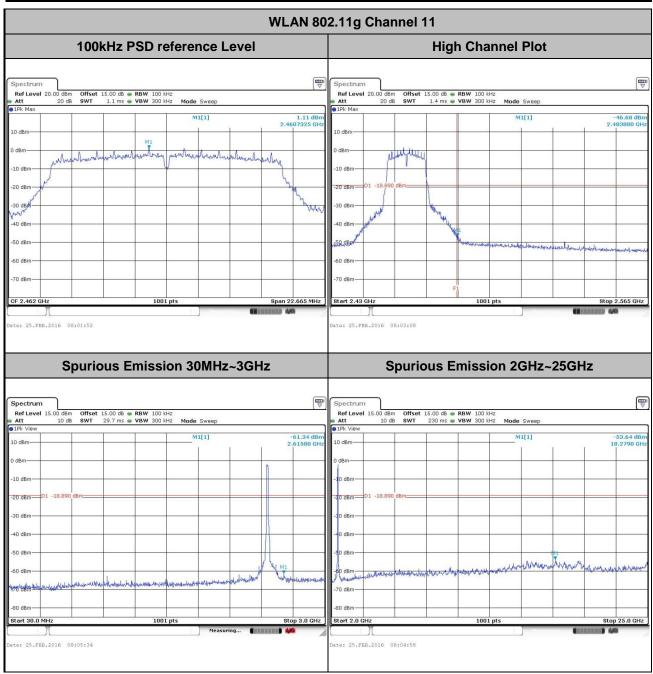
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 Test Mode :
 802.11g
 Temperature :
 24~26℃

 Test Band :
 2.4GHz High
 Relative Humidity :
 50~53%

 Test Channel :
 11
 Test Engineer :
 Sam Zheng

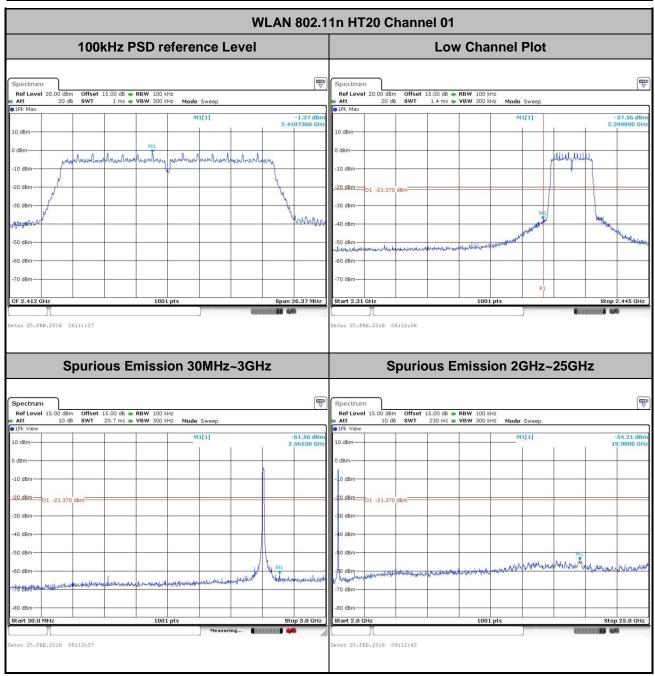


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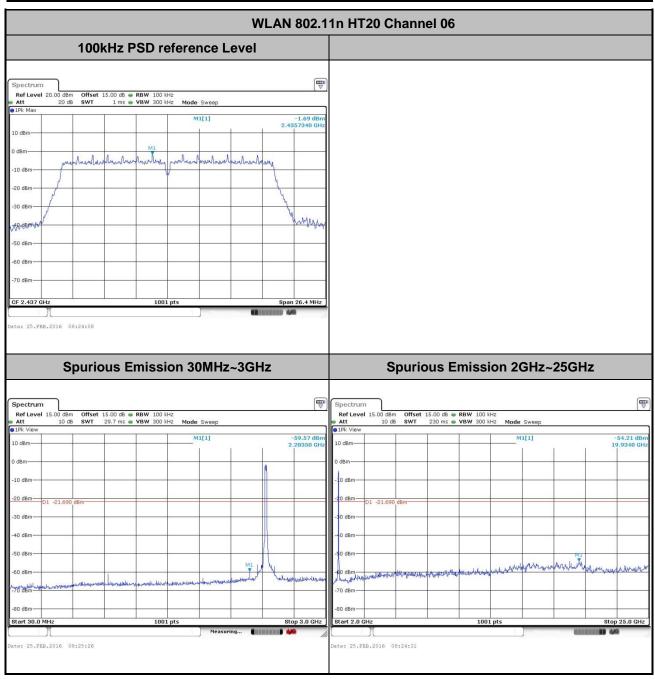
Test Mode :	802.11n HT20	Temperature :	24~26 ℃
Test Band :	2.4GHz Low	Relative Humidity :	50~53%
Test Channel :	01	Test Engineer :	Sam Zheng



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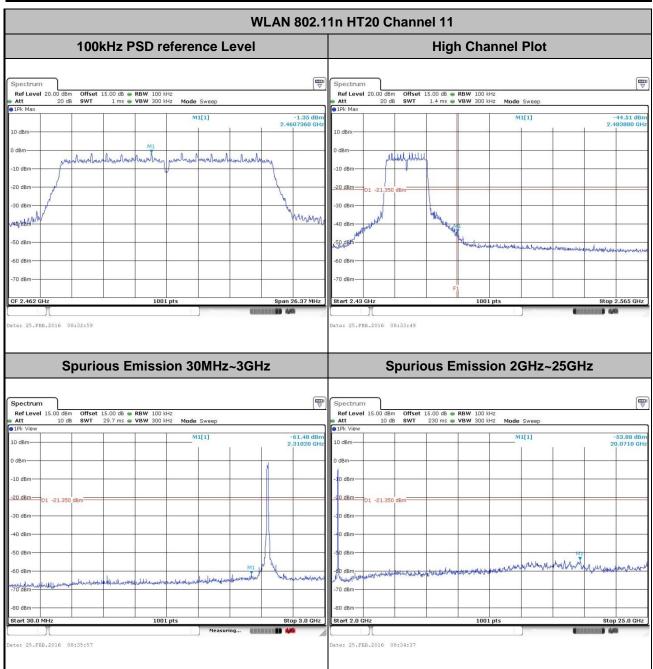
Test Mode :	802.11n HT20	Temperature :	24~26 ℃
Test Band :	2.4GHz Mid	Relative Humidity :	50~53%
Test Channel :	06	Test Engineer :	Sam Zheng



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Test Mode :	802.11n HT20	Temperature :	24~26 ℃
Test Band :	2.4GHz High	Relative Humidity :	50~53%
Test Channel :	11	Test Engineer :	Sam Zheng

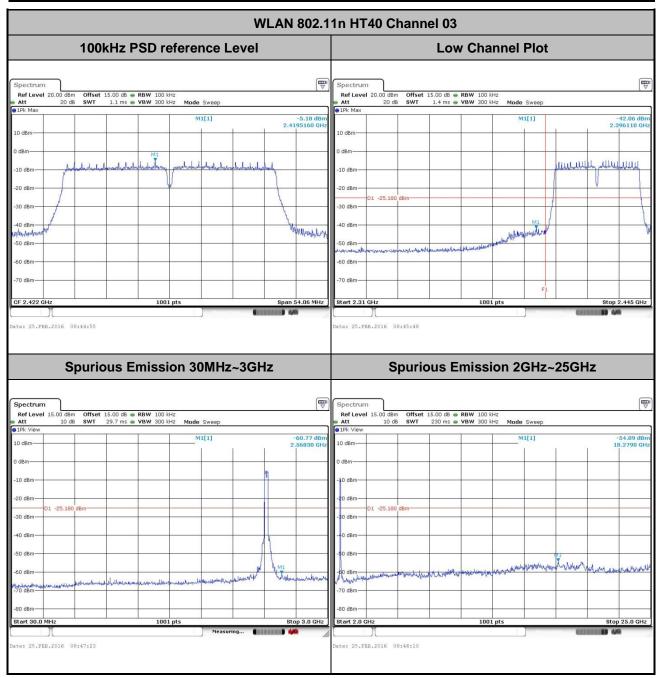


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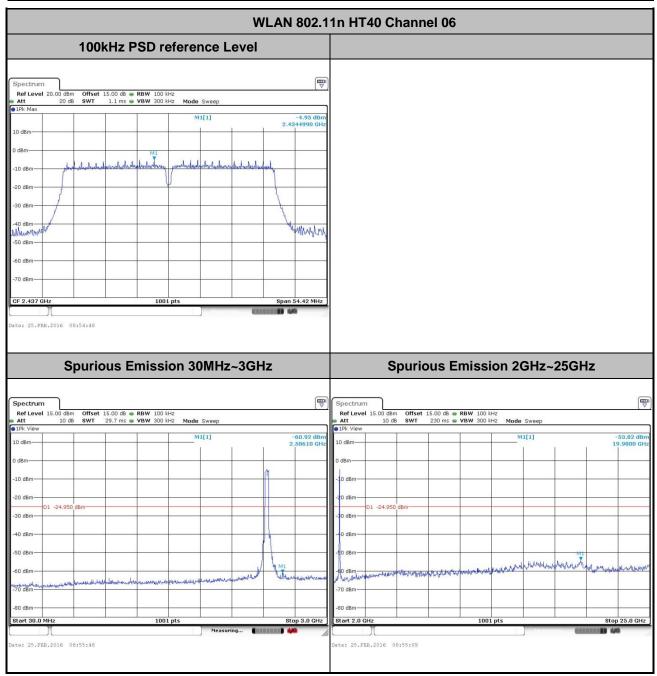
Test Mode :	802.11n HT40	Temperature :	24~26 ℃
Test Band :	2.4GHz Low	Relative Humidity :	50~53%
Test Channel :	03	Test Engineer :	Sam Zheng



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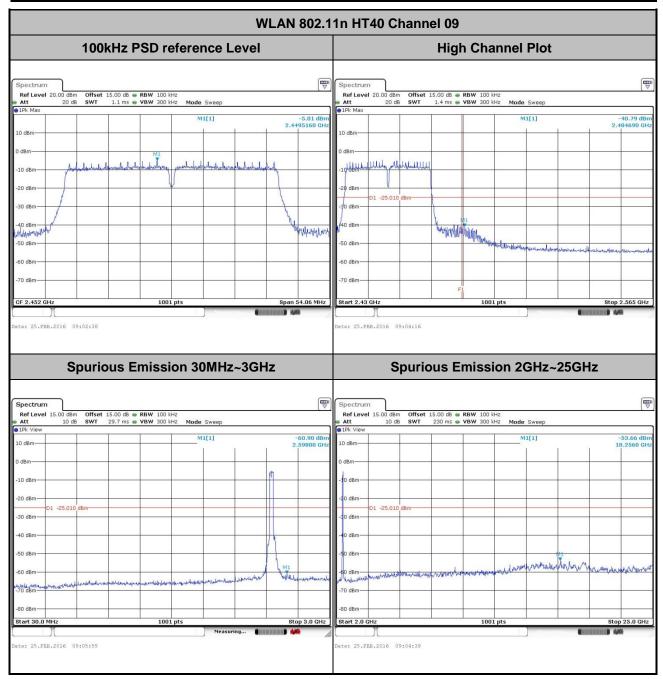
Test Mode :	802.11n HT40	Temperature :	24~26 ℃
Test Band :	2.4GHz Mid	Relative Humidity :	50~53%
Test Channel :	06	Test Engineer :	Sam Zheng



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Test Mode :	802.11n HT40	Temperature :	24~26 ℃
Test Band :	2.4GHz High	Relative Humidity :	50~53%
Test Channel :	09	Test Engineer :	Sam Zheng



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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 v03r04.
- 2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.

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- 3. The EUT was placed on a turntable with 0.8 meter 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	100.00	-	-	10Hz
802.11g	97.16	1.36	0.74	1kHz
2.4GHz 802.11n HT20	96.85	1.29	0.78	1kHz
2.4GHz 802.11n HT40	95.33	0.65	1.54	3kHz

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3.5.4 Test Setup

For radiated emissions below 30MHz



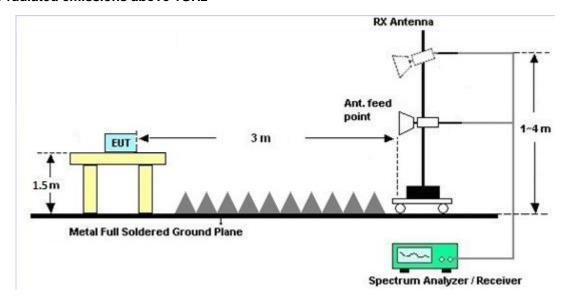
For radiated emissions from 30MHz to 1GHz



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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 B.

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

Please refer to Appendix B.

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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

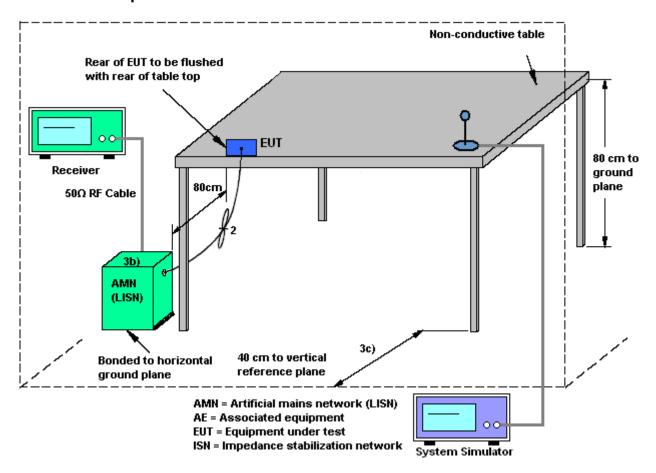
The measuring equipment is listed in the section 4 of this test report.

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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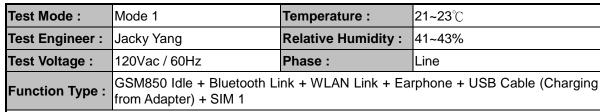
3.6.4 Test Setup

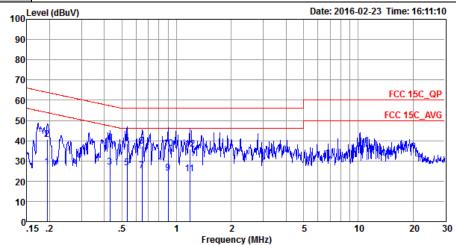


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3.6.5 Test Result of AC Conducted Emission





Condition: FCC 15C_QP LISN_L_20160112 LINE

Mode : Mode 1

IMEI : 868047010033860/868047010033878

				Over	Limit	Read	LISN	Cable	
	F	req	Level	Limit	Line	Level	Factor	Loss	Remark
		MHz	dBuV	dB	dBu∇	dBu∀	dB	dB	
1	0	.19	27.01	-26.83	53.84	16.20	0.51	10.30	Average
2	0	.19	40.41	-23.43	63.84	29.60	0.51	10.30	QP
3	0	.43	26.85	-20.39	47.24	16.11	0.58	10.16	Average
4	0	.43	39.25	-17.99	57.24	28.51	0.58	10.16	QP
5	0	.53	26.40	-19.60	46.00	15.61	0.64	10.15	Average
6 4	۰ 0	.53	38.80	-17.20	56.00	28.01	0.64	10.15	QP
7	0	.64	24.92	-21.08	46.00	14.20	0.57	10.15	Average
8	0	.64	37.12	-18.88	56.00	26.40	0.57	10.15	QP
9	0	.90	24.07	-21.93	46.00	13.40	0.52	10.15	Average
10	0	.90	36.27	-19.73	56.00	25.60	0.52	10.15	QP
11	1	.18	23.76	-22.24	46.00	13.10	0.50	10.16	Average
12	1	.18	35.86	-20.14	56.00	25.20	0.50	10.16	QP

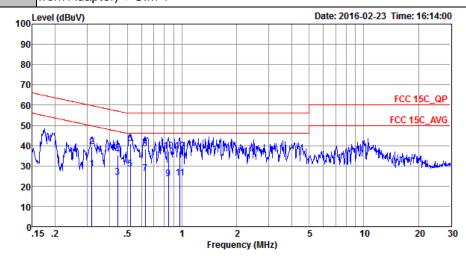
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Test Mode :	Mode 1	Temperature :	21~23 ℃
Test Engineer :	Jacky Yang	Relative Humidity :	41~43%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
	GSM850 Idle + Bluetooth Li	ink + WLAN Link + Fa	rphone + USB Cable (Charging

Function Type : GSM850 Idle + Bluetooth Link + WLAN Link + Earphone + USB Cable (Charging from Adapter) + SIM 1



Condition: FCC 15C QP LISN N 20160112 NEUTRAL

Mode : Mode 1

IMEI : 868047010033860/868047010033878

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
-	MHz	dBuV	dB	dBu₹	dBu₹	dB	dB	
1	0.32	28.28	-21.47	49.75	17.51	0.58	10.19	Average
2	0.32	39.48	-20.27	59.75	28.71	0.58	10.19	QP
3	0.44	24.34	-22.68	47.02	13.60	0.58	10.16	Average
4	0.44	35.44	-21.58	57.02	24.70	0.58	10.16	QP
5	0.52	28.36	-17.64	46.00	17.60	0.60	10.16	Average
6 *	0.52	40.86	-15.14	56.00	30.10	0.60	10.16	QP
7	0.63	26.22	-19.78	46.00	15.50	0.57	10.15	Average
8	0.63	38.22	-17.78	56.00	27.50	0.57	10.15	QP
9	0.84	23.60	-22.40	46.00	12.89	0.56	10.15	Average
10	0.84	37.10	-18.90	56.00	26.39	0.56	10.15	QP
11	0.97	23.81	-22.19	46.00	13.10	0.56	10.15	Average
12	0.97	37.11	-18.89	56.00	26.40	0.56	10.15	QP

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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	FSV40	101078	9kHz~40GHz	May 05, 2015	Feb. 25, 2016	May 04, 2016	Conducted (TH01-SZ)
Pulse Power Senor	Anritsu	MA2411B	1207253	30MHz~40GHz	Jan. 12, 2016	Feb. 25, 2016	Jan. 11, 2017	Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1218010	50MHz Bandwidth	Jan. 12, 2016	Feb. 25, 2016	Jan. 11, 2017	Conducted (TH01-SZ)
EMI Test Receiver	R&S	ESR7	101403	9kHz~7GHz;Ma x 30dBm	Sep. 10, 2015	Mar. 14, 2016	Sep. 09, 2016	Radiation (03CH03-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150244	10Hz-44GHz	Jun. 05, 2015	Mar. 14, 2016	Jun. 04, 2016	Radiation (03CH03-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Nov. 07, 2015	Mar. 14, 2016	Nov. 06, 2016	Radiation (03CH03-KS)
Bilog Antenna	TeseQ	CBL6112D	23182	25MHz-2GHz	Jan. 16, 2016	Mar. 14, 2016	Jan. 15, 2017	Radiation (03CH03-KS)
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-1356	1GHz~18GHz	Jun. 25, 2015	Mar. 14, 2016	Jun. 24, 2016	Radiation (03CH03-KS)
SHF-EHF Horn	com-power	AH-840	101070	18Ghz-40Ghz	Oct. 10, 2015	Mar. 14, 2016	Oct. 09, 2016	Radiation (03CH03-KS)
Amplifier	Burgeon	BPA-530	102212	0.01MHz-3000M Hz	Aug. 10, 2015	Mar. 14, 2016	Aug. 09, 2016	Radiation (03CH03-KS)
Amplifier	Agilent	8449B	3008A02370	1GHz~26.5GHz	Oct. 24, 2015	Mar. 14, 2016	Oct. 23, 2016	Radiation (03CH03-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Mar. 14, 2016	NCR	Radiation (03CH03-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Mar. 14, 2016	NCR	Radiation (03CH03-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Mar. 14, 2016	NCR	Radiation (03CH03-KS)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	May 04, 2015	Feb. 23, 2016	May 03, 2016	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060103	9kHz~30MHz	Oct. 24, 2015	Feb. 23, 2016	Oct. 23, 2016	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060105	9kHz~30MHz	Oct. 24, 2015	Feb. 23, 2016	Oct. 23, 2016	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP0000008 11	AC 0V~300V, 45Hz~1000Hz	Oct. 24, 2015	Feb. 23, 2016	Oct. 23, 2016	Conduction (CO01-KS)

NCR: No Calibration Required

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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

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

Measuring Uncertainty for a Level of	4.5 dB
Confidence of 95% (U = 2Uc(y))	4.5 UB

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Appendix A. Conducted Test Results

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A1 - DTS Part

Test Engineer:	Sam Zheng	Temperature:	24~26	°C
Test Date:	2016/2/25	Relative Humidity:	50~53	%

TEST RESULTS DATA 6dB and 99% Occupied Bandwidth

	2.4GHz Band											
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Occupied BW (MHz)	6dB BW (MHz)	6dB BW Limit (MHz)	Pass/Fail				
11b	1Mbps	1	1	2412	12.54	10.03	0.50	Pass				
11b	1Mbps	1	6	2437	12.49	10.01	0.50	Pass				
11b	1Mbps	1	11	2462	12.54	10.03	0.50	Pass				
11g	6Mbps	1	1	2412	17.98	15.54	0.50	Pass				
11g	6Mbps	1	6	2437	17.83	15.31	0.50	Pass				
11g	6Mbps	1	11	2462	17.83	15.11	0.50	Pass				
HT20	MCS0	1	1	2412	18.73	17.58	0.50	Pass				
HT20	MCS0	1	6	2437	18.68	17.60	0.50	Pass				
HT20	MCS0	1	11	2462	18.68	17.58	0.50	Pass				
HT40	MCS0	1	3	2422	36.66	36.04	0.50	Pass				
HT40	MCS0	1	6	2437	36.66	36.28	0.50	Pass				
HT40	MCS0	1	9	2452	36.66	36.04	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	16.15	30.00	-6.00	10.15	36.00	Pass		
11b	1Mbps	1	6	2437	16.06	30.00	-6.00	10.06	36.00	Pass		
11b	1Mbps	1	11	2462	16.07	30.00	-6.00	10.07	36.00	Pass		
11g	6Mbps	1	1	2412	19.68	30.00	-6.00	13.68	36.00	Pass		
11g	6Mbps	1	6	2437	20.15	30.00	-6.00	14.15	36.00	Pass		
11g	6Mbps	1	11	2462	19.47	30.00	-6.00	13.47	36.00	Pass		
HT20	MCS0	1	1	2412	19.50	30.00	-6.00	13.50	36.00	Pass		
HT20	MCS0	1	6	2437	19.07	30.00	-6.00	13.07	36.00	Pass		
HT20	MCS0	1	11	2462	18.82	30.00	-6.00	12.82	36.00	Pass		
HT40	MCS0	1	3	2422	19.26	30.00	-6.00	13.26	36.00	Pass		
HT40	MCS0	1	6	2437	19.10	30.00	-6.00	13.10	36.00	Pass		
HT40	MCS0	1	9	2452	19.13	30.00	-6.00	13.13	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	0.00	13.25					
11b	1Mbps	1	6	2437	0.00	13.09					
11b	1Mbps	1	11	2462	0.00	13.11					
11g	6Mbps	1	1	2412	0.13	11.13					
11g	6Mbps	1	6	2437	0.13	11.28					
11g	6Mbps	1	11	2462	0.13	11.14					
HT20	MCS0	1	1	2412	0.14	9.53					
HT20	MCS0	1	6	2437	0.14	9.19					
HT20	MCS0	1	11	2462	0.14	9.29					
HT40	MCS0	1	3	2422	0.21	8.76					
HT40	MCS0	1	6	2437	0.21	8.48					
HT40	MCS0	1	9	2452	0.21	8.68					

TEST RESULTS DATA Peak Power Density

	2.4GHz Band											
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak PSD (dBm /3kHz)	DG (dBi)	Peak PSD Limit (dBm /3kHz)	Pass/Fail				
11b	1Mbps	1	1	2412	-8.89	-6.00	8.00	Pass				
11b	1Mbps	1	6	2437	-9.12	-6.00	8.00	Pass				
11b	1Mbps	1	11	2462	-8.81	-6.00	8.00	Pass				
11g	6Mbps	1	1	2412	-11.41	-6.00	8.00	Pass				
11g	6Mbps	1	6	2437	-11.57	-6.00	8.00	Pass				
11g	6Mbps	1	11	2462	-12.31	-6.00	8.00	Pass				
HT20	MCS0	1	1	2412	-14.78	-6.00	8.00	Pass				
HT20	MCS0	1	6	2437	-15.00	-6.00	8.00	Pass				
HT20	MCS0	1	11	2462	-15.15	-6.00	8.00	Pass				
HT40	MCS0	1	3	2422	-18.69	-6.00	8.00	Pass				
HT40	MCS0	1	6	2437	-19.06	-6.00	8.00	Pass				
HT40	MCS0	1	9	2452	-18.51	-6.00	8.00	Pass				

Appendix B. 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.
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)
		2349.06	47.46	-26.54	74	39.2	32.54	5.03	29.31	163	291	Р	Н
		2389.2	36.09	-17.91	54	27.76	32.6	5.07	29.34	163	291	Α	Н
000 446	*	2412	96	-	-	87.65	32.61	5.12	29.38	163	291	Р	Н
802.11b CH 01	*	2412	93.92	-	-	85.57	32.61	5.12	29.38	163	291	Α	Н
2412MHz		2389.56	48.53	-25.47	74	40.2	32.6	5.07	29.34	209	274	Р	V
241211112		2389.2	38.71	-15.29	54	30.38	32.6	5.07	29.34	209	274	Α	V
	*	2412	99.95	-	-	91.6	32.61	5.12	29.38	209	274	Р	V
	*	2412	97.92	-	-	89.57	32.61	5.12	29.38	209	274	Α	V
		2380.38	46.81	-27.19	74	38.5	32.58	5.07	29.34	180	317	Р	Н
		2379.93	35.29	-18.71	54	26.98	32.58	5.07	29.34	180	317	Α	Н
	*	2437	94.51	-	-	86.09	32.65	5.12	29.35	180	317	Р	Н
	*	2437	92.45	1	-	84.03	32.65	5.12	29.35	180	317	Α	Н
200 444		2491.76	47.19	-26.81	74	38.56	32.7	5.21	29.28	180	317	Р	Н
802.11b CH 06		2488.56	35.58	-18.42	54	26.98	32.7	5.21	29.31	180	317	Α	Н
2437MHz		2365.26	47.37	-26.63	74	39.12	32.56	5.03	29.34	170	317	Р	V
2737141112		2379.93	36.38	-17.62	54	28.07	32.58	5.07	29.34	170	317	Α	V
	*	2437	99.95	-	-	91.53	32.65	5.12	29.35	170	317	Р	V
	*	2437	97.76	1	-	89.34	32.65	5.12	29.35	170	317	Α	V
		2491.56	47.88	-26.12	74	39.28	32.7	5.21	29.31	170	317	Р	V
		2488.68	36.98	-17.02	54	28.38	32.7	5.21	29.31	170	317	Α	V

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	*	2462	96.95	_	-	88.45	32.67	5.16	29.33	175	320	Р	Н
	*	2462	94.85	-	-	86.35	32.67	5.16	29.33	175	320	Α	Н
		2490.08	47.93	-26.07	74	39.33	32.7	5.21	29.31	175	320	Р	Н
802.11b		2491.8	36.71	-17.29	54	28.08	32.7	5.21	29.28	175	320	Α	Н
CH 11 2462MHz	*	2462	99.38	-	-	90.88	32.67	5.16	29.33	165	317	Р	V
2402IVITI2	*	2462	97.3	-	-	88.8	32.67	5.16	29.33	165	317	Α	V
		2491.08	49.01	-24.99	74	40.41	32.7	5.21	29.31	165	317	Р	V
		2483.52	38.13	-15.87	54	29.6	32.68	5.16	29.31	165	317	Α	V
Remark		o other spurio Il results are P		st Peak	and Averaç	je limit lin	e.						

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All results are PASS against Peak and Average limit line.

15C 2.4GHz 2400~2483.5MHz

Report No.: FR622002C

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	45.02	-28.98	74	61.55	34.4	7.46	58.39	185	255	Р	Н
CH 01 2412MHz		4824	44.37	-29.63	74	60.9	34.4	7.46	58.39	185	255	Р	V
		4874	44.68	-29.32	74	61.42	34.43	7.49	58.66	165	106	Р	Н
802.11b		7311	53.25	-20.75	74	65.95	36.22	9.7	58.62	174	100	Р	Н
CH 06		7311	50.96	-3.04	54	63.66	36.22	9.7	58.62	174	100	Α	Н
2437MHz		4874	43.43	-30.57	74	60.17	34.43	7.49	58.66	165	106	Р	V
		7311	49.64	-24.36	74	62.34	36.22	9.7	58.62	174	100	Р	V
		4924	44.74	-29.26	74	61.27	34.46	7.53	58.52	150	285	Р	Н
802.11b		7386	51.9	-22.1	74	64.38	36.26	9.8	58.54	155	274	Р	Н
CH 11		7386	49.63	-4.37	54	62.11	36.26	9.8	58.54	155	274	Α	Н
2462MHz		4924	45.23	-28.77	74	61.76	34.46	7.53	58.52	150	285	Р	V
		7386	48.92	-25.08	74	61.4	36.26	9.8	58.54	155	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 802.11g (Band Edge @ 3m)

Report No. : FR622002C

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)
		2380.92	48.11	-25.89	74	39.8	32.58	5.07	29.34	163	317	Р	Н
		2389.92	37.47	-16.53	54	29.18	32.6	5.07	29.38	163	317	Α	Н
000 44	*	2412	98.44	-	-	90.09	32.61	5.12	29.38	163	317	Р	Н
802.11g CH 01	*	2412	90.61	-	-	82.26	32.61	5.12	29.38	163	317	Α	Н
2412MHz		2389.56	51.93	-22.07	74	43.6	32.6	5.07	29.34	176	316	Р	V
241211112		2389.83	40.59	-13.41	54	32.3	32.6	5.07	29.38	176	316	Α	V
	*	2412	100.07	-	-	91.72	32.61	5.12	29.38	176	316	Р	V
	*	2412	92.31	ı	1	83.96	32.61	5.12	29.38	176	316	Α	V
		2377.14	48.13	-25.87	74	39.82	32.58	5.07	29.34	161	7	Р	Н
		2389.65	36.55	-17.45	54	28.22	32.6	5.07	29.34	161	7	Α	Н
	*	2437	99.61	-	-	91.19	32.65	5.12	29.35	161	7	Р	Н
	*	2437	92.14	-	-	83.72	32.65	5.12	29.35	161	7	Α	Н
		2483.6	48.23	-25.77	74	39.7	32.68	5.16	29.31	161	7	Р	Н
802.11g		2484	37.45	-16.55	54	28.92	32.68	5.16	29.31	161	7	Α	Н
CH 06 2437MHz		2375.79	48.29	-25.71	74	39.98	32.58	5.07	29.34	183	296	Р	V
2437 WITHZ		2374.98	37.49	-16.51	54	29.18	32.58	5.07	29.34	183	296	Α	V
	*	2437	100.05	-	-	91.63	32.65	5.12	29.35	183	296	Р	V
	*	2437	92.37	-	-	83.95	32.65	5.12	29.35	183	296	Α	V
		2483.56	49.14	-24.86	74	40.61	32.68	5.16	29.31	183	296	Р	V
		2487.2	38.26	-15.74	54	29.73	32.68	5.16	29.31	183	296	Α	V

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	*	2462	97.55	-	-	89.05	32.67	5.16	29.33	244	318	Р	Н
	*	2462	89.84	-	-	81.34	32.67	5.16	29.33	244	318	Α	Н
		2483.96	55.47	-18.53	74	46.94	32.68	5.16	29.31	244	318	Р	Н
802.11g		2483.52	40.83	-13.17	54	32.3	32.68	5.16	29.31	244	318	Α	Н
CH 11 2462MHz	*	2462	100.43	-	ı	91.93	32.67	5.16	29.33	192	315	Р	V
240211112	*	2462	92.8	-	-	84.3	32.67	5.16	29.33	192	315	Α	V
		2483.6	59.93	-14.07	74	51.4	32.68	5.16	29.31	192	315	Р	V
		2483.56	44.71	-9.29	54	36.18	32.68	5.16	29.31	192	315	Α	V
Remark		o other spurio Il results are P		st Peak	and Averag	je limit lin	е.						

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Report No. : FR622002C

All results are PASS against Peak and Average limit line.

15C 2.4GHz 2400~2483.5MHz

Report No.: FR622002C

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	44.69	-29.31	74	61.22	34.4	7.46	58.39	185	255	Р	Н
CH 01 2412MHz		4824	44.61	-29.39	74	61.14	34.4	7.46	58.39	185	255	Р	V
		4874	43.11	-30.89	74	59.85	34.43	7.49	58.66	165	106	Р	Н
802.11g		7311	53.44	-20.56	74	66.14	36.22	9.7	58.62	174	100	Р	Н
CH 06		7311	45.56	-8.44	54	58.26	36.22	9.7	58.62	174	100	Α	Н
2437MHz		4874	43.02	-30.98	74	59.76	34.43	7.49	58.66	165	106	Р	V
		7311	48.26	-25.74	74	60.96	36.22	9.7	58.62	174	100	Р	V
		4924	43.95	-30.05	74	60.48	34.46	7.53	58.52	150	285	Р	Н
802.11g		7386	54.28	-19.72	74	66.76	36.26	9.8	58.54	155	274	Р	Н
CH 11		7386	46.41	-7.59	54	58.89	36.26	9.8	58.54	155	274	Α	Н
2462MHz		4924	43.19	-30.81	74	59.72	34.46	7.53	58.52	150	285	Р	V
		7386	46.61	-27.39	74	59.09	36.26	9.8	58.54	155	274	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 HT20 (Band Edge @ 3m)

Report No. : FR622002C

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)
		2388.93	51.97	-22.03	74	43.64	32.6	5.07	29.34	181	311	Р	Н
		2389.56	39.89	-14.11	54	31.56	32.6	5.07	29.34	181	311	Α	Н
802.11n	*	2412	95.24	-	-	86.89	32.61	5.12	29.38	181	311	Р	Н
HT20	*	2412	87.32	-	-	78.97	32.61	5.12	29.38	181	311	Α	Н
CH 01		2389.65	53.64	-20.36	74	45.31	32.6	5.07	29.34	204	274	Р	V
2412MHz		2389.74	41.3	-12.7	54	32.97	32.6	5.07	29.34	204	274	Α	V
	*	2412	96.88	-	-	88.53	32.61	5.12	29.38	204	274	Р	V
	*	2412	88.89	-	-	80.54	32.61	5.12	29.38	204	274	Α	V
		2318.55	47.61	-26.39	74	39.37	32.53	4.98	29.27	247	312	Р	Н
		2389.11	36.29	-17.71	54	27.96	32.6	5.07	29.34	247	312	Α	Н
	*	2437	95.08	-	-	86.66	32.65	5.12	29.35	247	312	Р	Н
	*	2437	86.98	-	-	78.56	32.65	5.12	29.35	247	312	Α	Н
802.11n		2487.68	48.88	-25.12	74	40.33	32.7	5.16	29.31	247	312	Р	Н
HT20		2484.08	37.6	-16.4	54	29.07	32.68	5.16	29.31	247	312	Α	Н
CH 06		2389.92	47.47	-26.53	74	39.18	32.6	5.07	29.38	150	312	Р	V
2437MHz		2387.22	36.55	-17.45	54	28.22	32.6	5.07	29.34	150	312	Α	V
	*	2437	96.01	-	-	87.59	32.65	5.12	29.35	150	312	Р	V
	*	2437	87.83	-	-	79.41	32.65	5.12	29.35	150	312	Α	V
		2491.76	48.2	-25.8	74	39.57	32.7	5.21	29.28	150	312	Р	V
		2486.68	37.76	-16.24	54	29.23	32.68	5.16	29.31	150	312	Α	V

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	*	2462	97.25	-	-	88.75	32.67	5.16	29.33	242	317	Р	Н
	*	2462	89.06	-	-	80.56	32.67	5.16	29.33	242	317	Α	Н
802.11n		2483.96	60.83	-13.17	74	52.3	32.68	5.16	29.31	242	317	Р	Н
HT20		2483.56	44.24	-9.76	54	35.71	32.68	5.16	29.31	242	317	Α	Н
CH 11	*	2462	97.63	-	-	89.13	32.67	5.16	29.33	172	274	Р	V
2462MHz	*	2462	89.6	-	-	81.1	32.67	5.16	29.33	172	274	Α	V
		2483.76	59.79	-14.21	74	51.26	32.68	5.16	29.31	172	274	Р	V
	•	2483.52	44.31	-9.69	54	35.78	32.68	5.16	29.31	172	274	Α	V

Remark

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Report No.: FR622002C

^{1.} No other spurious found.

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

15C 2.4GHz 2400~2483.5MHz

Report No.: FR622002C

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	44.71	-29.29	74	61.24	34.4	7.46	58.39	185	255	P	Н
HT20		4024	77.71	20.20	/ -	01.24	54.4	7.40	30.33	100	200	'	''
CH 01		1001	44.00				0.1.1	- 10		40-			.,
2412MHz		4824	44.08	-29.92	74	60.61	34.4	7.46	58.39	185	255	Р	V
802.11n		4874	43.77	-30.23	74	60.51	34.43	7.49	58.66	165	106	Р	Н
HT20		7311	49.18	-24.82	74	61.88	36.22	9.7	58.62	174	100	Р	Н
CH 06		4874	44.43	-29.57	74	61.17	34.43	7.49	58.66	165	106	Р	V
2437MHz		7311	47.6	-26.4	74	60.3	36.22	9.7	58.62	174	100	Р	V
802.11n		4924	44.8	-29.2	74	61.33	34.46	7.53	58.52	150	285	Р	Н
HT20		7386	47.13	-26.87	74	59.61	36.26	9.8	58.54	155	274	Р	Н
CH 11		4924	43.81	-30.19	74	60.34	34.46	7.53	58.52	150	285	Р	V
2462MHz		7386	46.6	-27.4	74	59.08	36.26	9.8	58.54	155	274	Р	٧
Remark		o other spurio I results are P		st Peak	and Averaç	ge limit lin	e.						

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTSELFIE2 Page Number : B9 of B15 Report Issued Date : Mar. 18, 2016 Report Version : Rev. 01

All results are PASS against Peak and Average limit line.

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

Report No. : FR622002C

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)
		2388.3	59.03	-14.97	74	50.7	32.6	5.07	29.34	224	315	Р	Н
		2388.3	44.23	-9.77	54	35.9	32.6	5.07	29.34	224	315	Α	Н
	*	2422	94.15	-	-	85.75	32.63	5.12	29.35	224	315	Р	Н
	*	2422	86.05	-	-	77.65	32.63	5.12	29.35	224	315	Α	Н
802.11n		2484.88	50.1	-23.9	74	41.57	32.68	5.16	29.31	224	315	Р	Н
HT40		2488.84	38.09	-15.91	54	29.49	32.7	5.21	29.31	224	315	Α	Н
CH 03		2389.74	59	-15	74	50.67	32.6	5.07	29.34	161	276	Р	٧
2422MHz		2389.56	44.13	-9.87	54	35.8	32.6	5.07	29.34	161	276	Α	٧
	*	2422	94.13	-	-	85.73	32.63	5.12	29.35	161	276	Р	٧
	*	2422	86.08	-	-	77.68	32.63	5.12	29.35	161	276	Α	٧
		2494.76	49.59	-24.41	74	40.96	32.7	5.21	29.28	161	276	Р	٧
		2486.36	38.4	-15.6	54	29.87	32.68	5.16	29.31	161	276	Α	٧
		2389.56	49.29	-24.71	74	40.96	32.6	5.07	29.34	217	318	Р	Ι
		2389.74	38.17	-15.83	54	29.84	32.6	5.07	29.34	217	318	Α	Н
	*	2437	93.42	ı	1	85	32.65	5.12	29.35	217	318	Р	Н
	*	2437	85.35	ı	ı	76.93	32.65	5.12	29.35	217	318	Α	Н
802.11n		2484.64	54.72	-19.28	74	46.19	32.68	5.16	29.31	217	318	Р	Н
HT40		2484.16	39.75	-14.25	54	31.22	32.68	5.16	29.31	217	318	Α	Н
CH 06		2389.38	48.34	-25.66	74	40.01	32.6	5.07	29.34	182	276	Р	V
2437MHz		2389.92	38.07	-15.93	54	29.78	32.6	5.07	29.38	182	276	Α	V
	*	2437	93.89	-	-	85.47	32.65	5.12	29.35	181	276	Р	V
	*	2437	86.31	-	-	77.89	32.65	5.12	29.35	181	276	Α	V
		2489.6	52.41	-21.59	74	43.81	32.7	5.21	29.31	181	276	Р	V
		2484.2	39.73	-14.27	54	31.2	32.68	5.16	29.31	181	276	Α	V

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2383.89 47.31 -26.69 74 32.58 5.07 29.34 150 309 Ρ Н 39 32.58 2379.48 37.14 -16.86 54 28.83 5.07 29.34 150 309 Α Н * 2452 93.33 84.85 32.65 5.16 29.33 150 309 Н -* 2452 84.94 76.46 32.65 5.16 29.33 150 309 Α Н 2485.04 62.76 -11.24 74 54.23 32.68 5.16 29.31 150 309 Ρ Н 802.11n 2485.8 32.68 29.31 **HT40** 44.8 -9.2 54 36.27 5.16 150 309 Α Η **CH 09** Ρ 2381.82 47.38 -26.62 74 39.07 32.58 5.07 29.34 151 276 ٧ 2452MHz ٧ 2387.4 36.94 -17.06 54 28.61 32.6 5.07 29.34 151 276 Α Ρ ٧ 2452 95.05 32.65 29.33 151 276 86.57 5.16

78.17

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32.68

32.68

5.16

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29.31

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151

276

276

276

Remark

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2484.36

2485.6

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-9.08

-7.66

-

74

54

86.65

64.92

46.34

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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

Report No.: FR622002C

WIFI 802.11n HT40 (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		4844	43.87	-30.13	74	60.48	34.41	7.46	58.48	150	350	Р	Н
HT40		7266	46.75	-27.25	74	59.42	36.21	9.65	58.53	200	360	Р	Н
CH 03		4844	44.75	-29.25	74	61.36	34.41	7.46	58.48	150	350	Р	V
2422MHz		7266	46	-28	74	58.67	36.21	9.65	58.53	200	360	Р	V
802.11n		4874	43.66	-30.34	74	60.4	34.43	7.49	58.66	165	230	Р	Н
HT40		7311	45.73	-28.27	74	58.43	36.22	9.7	58.62	186	323	Р	Н
CH 06		4874	44.11	-29.89	74	60.85	34.43	7.49	58.66	165	230	Р	V
2437MHz		7311	45.88	-28.12	74	58.58	36.22	9.7	58.62	186	323	Р	V
802.11n		4904	44.73	-29.27	74	61.39	34.45	7.53	58.64	150	360	Р	Н
HT40		7356	47.43	-26.57	74	60.01	36.24	9.75	58.57	165	335	Р	Н
CH 09		4904	43.87	-30.13	74	60.53	34.45	7.53	58.64	150	360	Р	V
2452MHz		7356	46.47	-27.53	74	59.05	36.24	9.75	58.57	165	335	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

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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)	$(dB\mu V/m)$	$(dB\mu V)$	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		30	23.4	-16.6	40	29.11	19.6	0.76	26.07	-	-	Р	Н
		95.96	23.72	-19.78	43.5	36.86	11.22	1.44	25.8	1	1	Р	Н
		226.91	20.4	-25.6	46	31.28	12.03	2.28	25.19	-	-	Р	Н
		488.81	25.74	-20.26	46	29.49	18.94	3.59	26.28	-	-	Р	Н
		623.64	27.81	-18.19	46	30.07	19.84	4.32	26.42	-	-	Р	Н
2.4GHz		780.78	30.86	-15.14	46	30.1	22.07	4.9	26.21	100	0	Р	Н
802.11b LF		54.25	27.07	-12.93	40	42.65	9.34	1.04	25.96	100	163	Р	V
Lr		116.33	24.4	-19.1	43.5	34.46	14.05	1.58	25.69	-	-	Р	V
		307.42	19.95	-26.05	46	28.16	14.2	2.69	25.1	-	-	Р	V
		514.03	25.84	-20.16	46	29.07	19.44	3.68	26.35	-	-	Р	V
		782.72	30.58	-15.42	46	29.75	22.12	4.91	26.2	-	-	Р	V
		919.49	30.03	-15.97	46	28.79	21.52	5.44	25.72	-	-	Р	V
Remark		o other spurio		et limit li	no								

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

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Note symbol

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	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:

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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:

- 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(dBµV/m) Limit Line(dBµV/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 (SHENZHEN) INC.
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