

FCC RF Test Report

APPLICANT : CT Asia

EQUIPMENT: Mobile Phone

BRAND NAME : BLU

MODEL NAME : Life Play

FCC ID : YHLBLULIFEPLAY

STANDARD : FCC Part 15 Subpart C §15.247

CLASSIFICATION : (DTS) Digital Transmission System

The product was received on May 08, 2013 and completely tested on Jun. 06, 2013. We, SPORTON INTERNATIONAL (SHENZHEN) INC., would like to declare that the tested sample has been evaluated in accordance with the procedures and shown the compliance with the applicable technical standards.

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

Reviewed by:

Jones Tsai / Manager



Report No.: FR350801B

SPORTON INTERNATIONAL (SHENZHEN) INC.

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

SPORTON INTERNATIONAL (SHENZHEN) INC.

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR350801B	Rev. 01	Initial issue of report	Jun. 13, 2013

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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	-
3.4	15.247(d)	Conducted Band Edges	- ≤ 20dBc	Pass	-
3.4	13.247(u)	Conducted Spurious Emission		Pass	-
3.5	15.247(d)	Radiated Band Edges	15.209(a) &	Dece	Under limit 3.21 dB at
3.5		Radiated Spurious Emission	15.247(d)	Pass	2389.830 MHz
3.6	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 11.97 dB at 0.460 MHz
3.7	15.203 & 15.247(b)	Antenna Requirement	N/A	Pass	-

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1 General Description

1.1 Applicant

CT Asia

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

1.2 Manufacturer

Gionee Communication Equipment Co., Ltd.

21/F, Times Technology Building, No. 7028, Shennan Avenue, Futian District, Shenzhen, China

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1.3 Feature of Equipment Under Test

Product Feature							
Equipment	Mobile Phone						
Brand Name	BLU						
Model Name	Life Play						
FCC ID	YHLBLULIFEPLAY						
EUT supports Radios application	GSM/GPRS/EGPRS/WCDMA/HSPA/HSPA+/						
EOT Supports Radios application	DC-HSDPA/WLAN 11bgn/Bluetooth						
HW Version	LIFE PLAY_Mainboard_P1						
SW Version	BLU_L100a_V07_GENERIC						
EUT Stage	Production Unit						

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

1.4 Product Specification of Equipment Under Test

Product Specification subjective to this standard						
Tx/Rx Frequency Range	2412 MHz ~ 2462 MHz					
Number of Channels	11					
Carrier Frequency of Each Channel	2412+(n-1)*5 MHz; n=1~11					
Maximum Output Power to Antenna	802.11b : 19.15 dBm (0.0822 W) 802.11g : 21.18 dBm (0.1312 W) 802.11n HT20 : 22.11 dBm (0.1626 W) 802.11n HT40 : 21.45 dBm (0.1396 W)					
Antenna Type	PIFA Antenna type with gain 1.00 dBi					
Type of Modulation	802.11b : DSSS (DBPSK / DQPSK / CCK) 802.11g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)					

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1.5 Testing Site

Test Site	SPORTON IN	NTERNATION	AL (SHENZHEN) INC.					
Test Site Location	Nanshan Dis	No. 3 Building, the third floor of south, Shahe River west, Fengzeyuan warehouse, Nanshan District, Shenzhen, Guangdong, P.R.C. TEL: +86-755- 3320-2398							
Test Site No.		Sporton Site N	No.	FCC/IC Registration No.					
rest Site No.	TH01-SZ	CO01-SZ	03CH01-SZ	831040/4086F-1					

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

1.6 Applied 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 v03r01
- ANSI C63.10-2009

Remark:

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

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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 (Y plane) were recorded in this report.

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

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

2.1 Carrier Frequency Channel

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

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2.2 Pre-Scanned RF Power

Preliminary tests were performed in different data rate and antenna configurations as following table and the highest power data rates were chosen for full test in the following tables.

			RF Power (dBm)					
Channel	Frequency	DSSS Data Rate						
		1 Mbps	2 Mbps	5.5 Mbps	11 Mbps			
CH 01	2412 MHz	<mark>19.15</mark>	19.12	18.94	18.93			
CH 06	2437 MHz	18.85	18.79	18.71	18.62			
CH 11	2462 MHz	19.13	19.12	18.92	18.97			

		2.4GHz 802.11g RF Power (dBm)							
Channel	Frequency	OFDM Data Rate							
		6 Mbps	9 Mbps	12 Mbps	18 Mbps	24 Mbps	36 Mbps	48 Mbps	54 Mbps
CH 01	2412 MHz	21.18	21.1	21.06	21.03	21.09	21.06	21.07	21.03
CH 06	2437 MHz	21.06	21.13	21.05	20.96	20.93	20.81	20.91	20.93
CH 11	2462 MHz	21.11	21.06	20.86	20.95	20.98	20.93	20.75	20.81

		2.4GHz 802.11n HT20 RF Power (dBm)								
Channel	Frequency	ncy OFDM Data R						Rate		
		6.5 Mbps	13 Mbps	19.5 Mbps	26 Mbps	39 Mbps	52 Mbps	58.5 Mbps	65 Mbps	
CH 01	2412 MHz	<mark>22.11</mark>	22.09	22.1	22.08	22.06	22.09	22.1	22.07	
CH 06	2437 MHz	22.01	21.96	21.98	21.99	22.01	21.97	22.02	22.06	
CH 11	2462 MHz	22.07	22.05	22.03	22.01	22.01	22.04	22.06	22.08	

			2	.4GHz 80	2.11n HT	40 RF Pc	wer (dBr	n)	
Channel	Frequency				OFDM D	Data Rate			
		13.5 Mbps	27 Mbps	40.5 Mbps	54 Mbps	81 Mbps	108 Mbps	121.5 Mbps	135 Mbps
CH 03	2422 MHz	<mark>21.45</mark>	20.02	20.06	20.03	19.92	19.95	19.87	20.37
CH 06	2437 MHz	21.43	19.85	19.86	19.92	19.89	19.93	19.81	20.18
CH 09	2452 MHz	21.39	19.97	20.03	20.01	19.96	19.87	19.75	20.03

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2.3 Test Mode

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

		Test Cases		
	Test Items	Mode	Data Rate	Test Channel
		802.11b	1 Mbps	1/6/11
	6dB BW	802.11g	6 Mbps	1/6/11
	Power Spectral Density	802.11n HT20	6.5 Mbps	1/6/11
		802.11n HT40	13.5 Mbps	3/6/9
		802.11b	1 Mbps	1/6/11
	Output Bower	802.11g	6 Mbps	1/6/11
Conducted	Output Power	802.11n HT20	6.5 Mbps	1/6/11
Conducted		802.11n HT40	13.5 Mbps	3/6/9
TCs		802.11b	1 Mbps	1/11
	Conducted Band Edge	802.11g	6 Mbps	1/11
	Conducted Band Edge	802.11n HT20	6.5 Mbps	1/11
		802.11n HT40	13.5 Mbps	3/9
		802.11b	1 Mbps	1/6/11
	Conducted Spurious	802.11g	6 Mbps	1/6/11
	Emission	802.11n HT20	6.5 Mbps	1/6/11
		802.11n HT40	13.5 Mbps	3/6/9
		802.11b	1 Mbps	1/11
	Dedicted Band Edge	802.11g	6 Mbps	1/11
	Radiated Band Edge	802.11n HT20	6.5 Mbps	1/11
Radiated		802.11n HT40	13.5 Mbps	3/9
TCs		802.11b	1 Mbps	1/6/11
	Radiated Spurious	802.11g	6 Mbps	1/6/11
	Emission	802.11n HT20	6.5 Mbps	1/6/11
		802.11n HT40	13.5 Mbps	3/6/9
AC Conducted Emission	Mode 1 : GSM850 Idle + Earphone	- Bluetooth Link + WLAI	N Link + USB Cable (Ch	arging from Adapter) +

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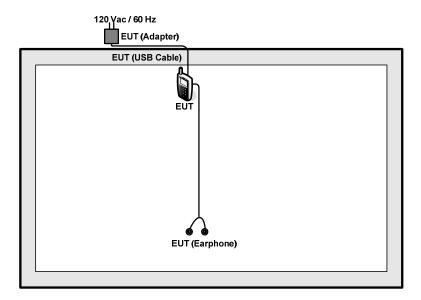
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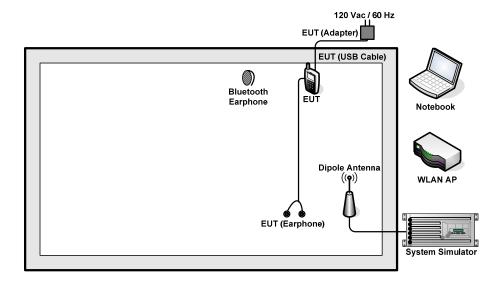


2.4 Connection Diagram of Test System

<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	Agilent	E5515C	N/A	N/A	Unshielded, 1.8 m
2.	DC Power Supply	TOPWORD	3303DR	N/A	N/A	Unshielded, 1.8 m
3.	WLAN AP	D-Link	DIR-612	N/A	N/A	Unshielded, 1.8 m
4.	Notebook	DELL	P08S	QDS-BRCM1030	N/A	AC I/P: Unshielded, 1.8 m DC O/P: Shielded, 1.8 m
5.	Bluetooth Earphone	Nokia	BH-108	N/A	N/A	N/A

2.6 RF Utility

For WLAN function, key in "* #446633 #" on the EUT directly. Then, the EUT will get into the engineering modes to contact with WLAN AP for continuous transmitting and receiving signals.

2.7 Measurement Results Explanation Example

For conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and 10dB attenuator between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

The spectrum analyzer offset is derived from RF cable loss and 10dB attenuator factor.

Offset = RF cable loss + attenuator factor.

Following table shows an offset computation example with cable loss 5.6 dB.

Example:

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Offset(dB) = RF cable loss(dB) + attenuator factor(dB). = 5.6 + 10 = 15.6 (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

See list of measuring instruments of this test report.

3.1.3 Test Procedures

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

3.1.4 Test Setup



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3.1.5 Test Result of 6dB Bandwidth

Test Mode :	802.11b	Temperature :	24~26 ℃
Test Engineer :	Blithe Li	Relative Humidity :	50~53%

Channel	Frequency (MHz)	802.11b 6dB Bandwidth (MHz)	6dB Bandwidth Min. Limit (MHz)	Pass/Fail
01	2412	9.04	0.5	Pass
06	2437	9.08	0.5	Pass
11	2462	9.06	0.5	Pass

6 dB Bandwidth Plot on 802.11b Channel 01



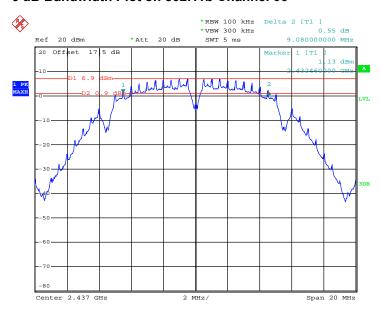
Date: 18.MAY.2013 16:57:55

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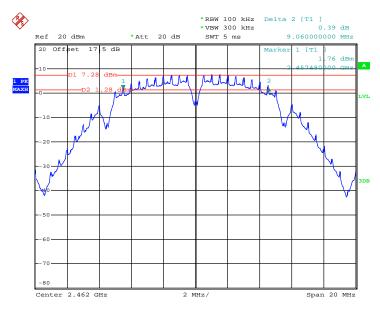
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6 dB Bandwidth Plot on 802.11b Channel 11



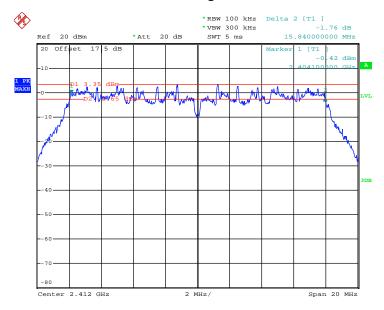
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Test Mode :	802.11g	Temperature :	24~26℃
Test Engineer :	Blithe Li	Relative Humidity :	50~53%

Channel	Frequency (MHz)	802.11g 6dB Bandwidth (MHz)	6dB Bandwidth Min. Limit (MHz)	Pass/Fail
01	2412	15.84	0.5	Pass
06	2437	15.88	0.5	Pass
11	2462	15.84	0.5	Pass

6 dB Bandwidth Plot on 802.11g Channel 01



Date: 18.MAY.2013 17:13:25

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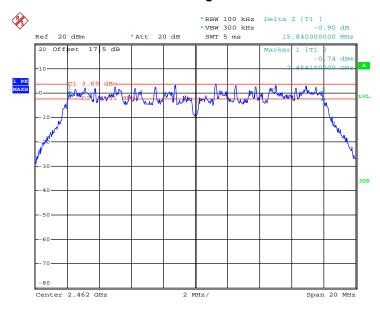


6 dB Bandwidth Plot on 802.11g Channel 06



Date: 18.MAY.2013 17:17:57

6 dB Bandwidth Plot on 802.11g Channel 11



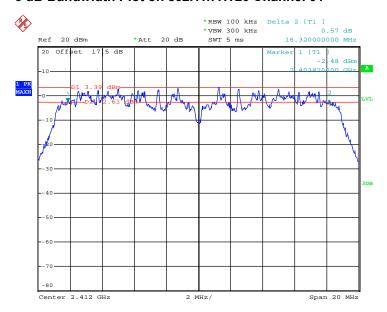
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Test Mode :	802.11n HT20	Temperature :	24~26℃
Test Engineer :	Blithe Li	Relative Humidity :	50~53%

Channel	Frequency (MHz)	2.4GHz 802.11n HT20 6dB Bandwidth (MHz)	6dB Bandwidth Min. Limit (MHz)	Pass/Fail
01	2412	16.32	0.5	Pass
06	2437	16.64	0.5	Pass
11	2462	16.50	0.5	Pass

6 dB Bandwidth Plot on 802.11n HT20 Channel 01



Date: 18.MAY.2013 17:26:30

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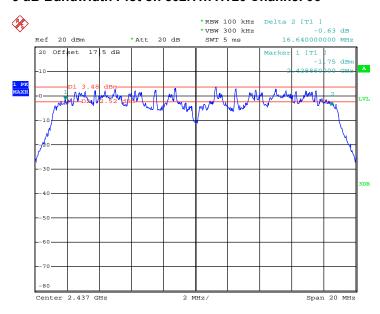
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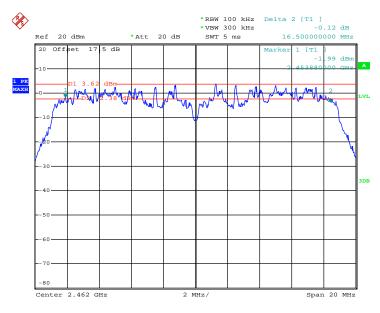
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6 dB Bandwidth Plot on 802.11n HT20 Channel 06



Date: 18.MAY.2013 17:30:37

6 dB Bandwidth Plot on 802.11n HT20 Channel 11



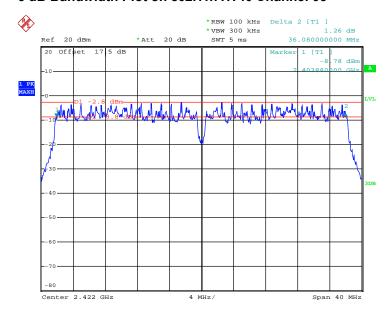
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Test Mode :	802.11n HT40	Temperature :	24~26℃
Test Engineer :	Blithe Li	Relative Humidity :	50~53%

Channel	Frequency (MHz)	802.11n HT40 6dB Bandwidth (MHz)	6dB Bandwidth Min. Limit (MHz)	Pass/Fail
03	2422	36.08	0.5	Pass
06	2437	36.08	0.5	Pass
09	2452	36.08	0.5	Pass

6 dB Bandwidth Plot on 802.11n HT40 Channel 03



Date: 18.MAY.2013 17:53:30

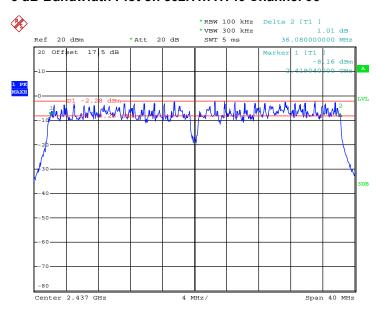
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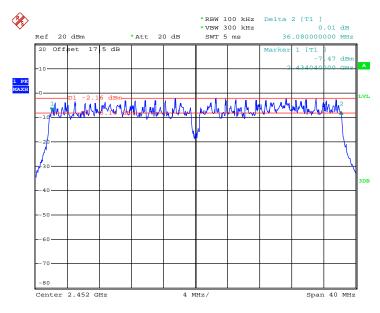


6 dB Bandwidth Plot on 802.11n HT40 Channel 06



Date: 18.MAY.2013 17:58:37

6 dB Bandwidth Plot on 802.11n HT40Channel 09



Date: 18.MAY.2013 18:02:01

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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

See list of measuring instruments of this test report.

3.2.3 Test Procedures

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

3.2.4 Test Setup



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3.2.5 Test Result of Peak Output Power

Test Mode :	802.11b	Temperature :	24~26℃
Test Engineer :	Blithe Li	Relative Humidity :	50~53%

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Channel	Frequency (MHz)	802.11b Peak Output Power (dBm)	Max. Limits (dBm)	Pass/Fail
01	2412	19.15	30	Pass
06	2437	18.85	30	Pass
11	2462	19.13	30	Pass

Test Mode :	802.11g	Temperature :	24~26 ℃
Test Engineer :	Blithe Li	Relative Humidity :	50~53%

Channel	Frequency (MHz)	802.11g Peak Output Power (dBm)	Max. Limits (dBm)	Pass/Fail
01	2412	21.18	30	Pass
06	2437	21.06	30	Pass
11	2462	21.11	30	Pass

Test Mode :	802.11n HT20	Temperature :	24~26 ℃
Test Engineer :	Blithe Li	Relative Humidity :	50~53%

Channel	Frequency (MHz)	2.4GHz 802.11n HT20 Peak Output Power (dBm)	Max. Limits (dBm)	Pass/Fail
01	2412	22.11	30	Pass
06	2437	22.01	30	Pass
11	2462	22.07	30	Pass

Test Mode :	2.4GHz 802.11n HT40	Temperature :	24~26 ℃
Test Engineer :	Blithe Li	Relative Humidity :	50~53%

Channel	Frequency (MHz)	2.4GHz 802.11n HT40 Peak Output Power (dBm)	Max. Limits (dBm)	Pass/Fail
03	2422	21.45	30	Pass
06	2437	21.43	30	Pass
09	2452	21.39	30	Pass

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3.2.6 Test Result of Average output Power (Reporting Only)

Test Mode :	802.11b	Temperature :	24~26 ℃
Test Engineer :	Blithe Li	Relative Humidity :	50~53%
Duty Cycle:	98.64%	Duty Factor:	0.06dB

Channel	Frequency (MHz)	802.11b Average Output Power (dBm)
01	2412	16.12
06	2437	15.71
11	2462	16.10

Test Mode :	802.11g	Temperature :	24~26℃
Test Engineer :	Blithe Li	Relative Humidity :	50~53%
Duty Cycle:	93.22%	Duty Factor:	0.30dB

Channel	Frequency (MHz)	802.11g Average Output Power (dBm)
01	2412	10.69
06	2437	10.53
11	2462	10.51

Test Mode :	802.11n HT20	Temperature :	24~26℃
Test Engineer :	Blithe Li	Relative Humidity :	50~53%
Duty Cycle:	92.65%	Duty Factor:	0.33dB

Channel	Frequency (MHz)	802.11n HT20 Average Output Power (dBm)
01	2412	12.70
06	2437	12.65
11	2462	12.61

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FCC RF Test Report

Test Mode :	802.11n HT40	Temperature :	24~26℃
Test Engineer :	Blithe Li	Relative Humidity :	50~53%
Duty Cycle:	86.28%	Duty Factor:	0.64dB

Channel	Frequency (MHz)	802.11n HT40 Average Output Power (dBm)
03	2422	10.13
06	2437	10.10
09	2452	10.02

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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.

Report No.: FR350801B

3.3.2 Measuring Instruments

See list of measuring instruments of this test report.

3.3.3 Test Procedures

- The testing follows Measurement Procedure 10.2 Option 1 of FCC KDB Publication No. 558074
 D01 DTS Meas. Guidance v03r01
- 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth VBW = 10 kHz In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW)
- 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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FCC RF Test Report

3.3.5 Test Result of Power Spectral Density

Test Mode :	802.11b	Temperature :	24~26 ℃
Test Engineer :	Blithe Li	Relative Humidity :	50~53%

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Channal	Frequency	802.11b Po	wer Density	Max. Limits	Page/Egil	
Channel	(MHz)	PSD/100KHz (dBm)	PSD/3KHz (dBm)	(dBm/3KHz)	Pass/Fail	
01	2412	7.39	-6.22	8	Pass	
06	2437	7.07	-7.45	8	Pass	
11	2462	7.24	-7.04	8	Pass	

Test Mode :	802.11g	Temperature :	24~26 ℃
Test Engineer :	Blithe Li	Relative Humidity :	50~53%

Channal	Frequency	802.11g Pow	ver Density	Max. Limits	Pass/Fail
Channel	(MHz)	PSD/100KHz (dBm)	PSD/3KHz (dBm)	(dBm/3KHz)	
01	2412	3.11	-9.33	8	Pass
06	2437	3.49	-8.62	8	Pass
11	2462	3.08	-9.19	8	Pass

Test Mode :	802.11n HT20	Temperature :	24~26 ℃
Test Engineer :	Blithe Li	Relative Humidity :	50~53%

Channel Frequency		802.11n HT20 Power Density		Max. Limits	Dage/Fail
Channel	(MHz)	PSD/100KHz (dBm)	PSD/3KHz (dBm)	(dBm/3KHz)	Pass/Fail
01	2412	3.27	-8.75	8	Pass
06	2437	3.47	-9.29	8	Pass
11	2462	3.69	-8.12	8	Pass

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FCC RF Test Report

Test Mode :	802.11n HT40	Temperature :	24~26 ℃
Test Engineer :	Blithe Li	Relative Humidity :	50~53%

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Frequency 802.11n HT40 Power Densi		Power Density	Max. Limits	Pass/Fail	
Channel	(MHz)	PSD/100KHz (dBm)	PSD/3KHz (dBm)	(dBm/3KHz)	
03	2422	-2.88	-15.25	8	Pass
06	2437	-2.46	-15.76	8	Pass
09	2452	-2.28	-14.52	8	Pass

Note:

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

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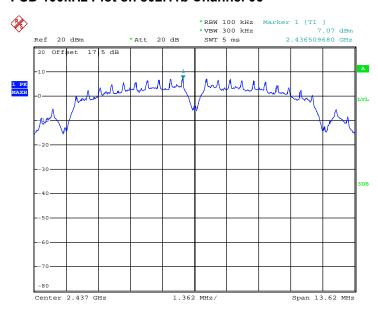
3.3.6 Test Result of Power Spectral Density Plots (100kHz)

PSD 100kHz Plot on 802.11b Channel 01



Date: 18.MAY.2013 16:58:40

PSD 100kHz Plot on 802.11b Channel 06



Date: 18.MAY.2013 17:04:53

TEL: +86-755- 3320-2398 FCC ID: YHLBLULIFEPLAY Page Number : 28 of 85 Report Issued Date : Jun. 13, 2013

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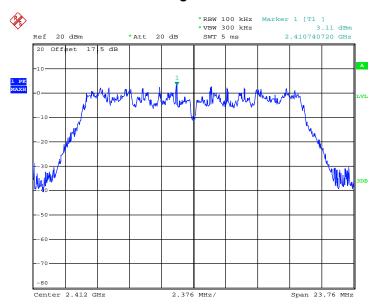
Report No. : FR350801B

PSD 100kHz Plot on 802.11b Channel 11



Date: 18.MAY.2013 17:08:43

PSD 100kHz Plot on 802.11g Channel 01



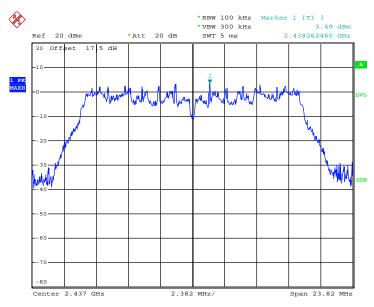
Date: 18.MAY.2013 17:15:02

TEL: +86-755- 3320-2398 FCC ID: YHLBLULIFEPLAY Page Number : 29 of 85
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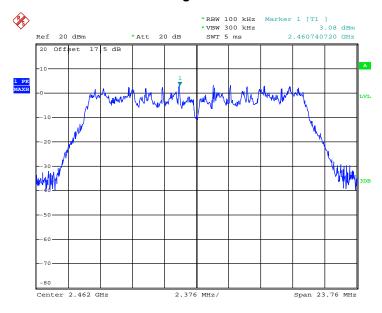
Report No.: FR350801B

PSD 100kHz Plot on 802.11g Channel 06



Date: 18.MAY.2013 17:18:39

PSD 100kHz Plot on 802.11g Channel 11

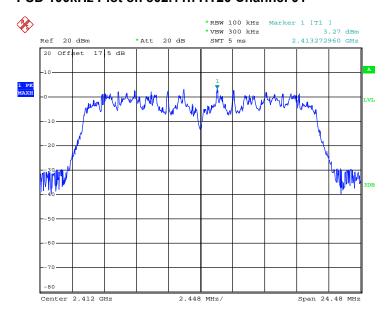


Date: 18.MAY.2013 17:22:16

TEL: +86-755- 3320-2398 FCC ID: YHLBLULIFEPLAY Page Number : 30 of 85
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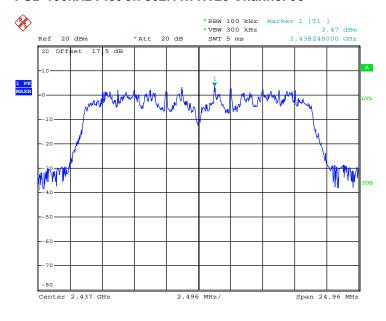


PSD 100kHz Plot on 802.11n HT20 Channel 01



Date: 18.MAY.2013 17:27:08

PSD 100kHz Plot on 802.11n HT20 Channel 06



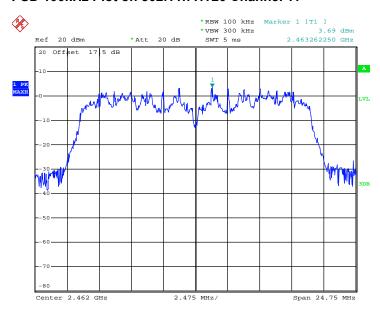
Date: 18.MAY.2013 17:31:18

TEL: +86-755- 3320-2398 FCC ID: YHLBLULIFEPLAY Page Number : 31 of 85
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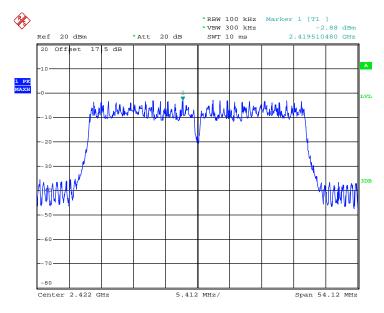
Report No. : FR350801B

PSD 100kHz Plot on 802.11n HT20 Channel 11



Date: 18.MAY.2013 17:34:51

PSD 100kHz Plot on 802.11n HT40 Channel 03



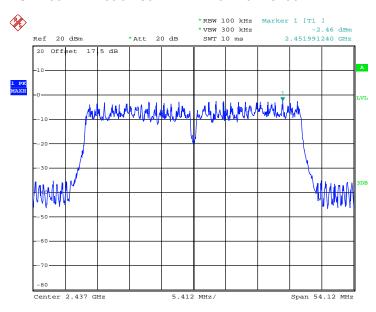
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TEL: +86-755- 3320-2398 FCC ID: YHLBLULIFEPLAY Page Number : 32 of 85
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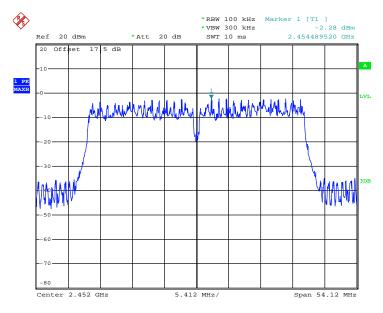
Report No. : FR350801B

PSD 100kHz Plot on 802.11n HT40 Channel 06



Date: 18.MAY.2013 17:59:27

PSD 100kHz Plot on 802.11n HT40 Channel 09



Date: 18.MAY.2013 18:02:56

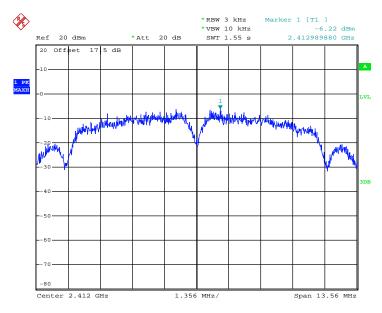
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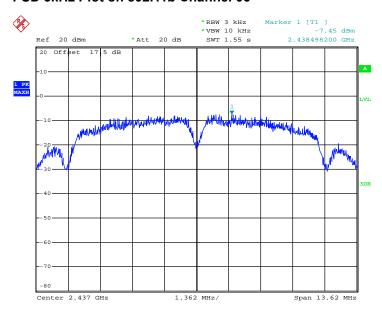
3.3.7 Test Result of Power Spectral Density Plots (3kHz)

PSD 3kHz Plot on 802.11b Channel 01



Date: 18.MAY.2013 16:58:29

PSD 3kHz Plot on 802.11b Channel 06



Date: 18.MAY.2013 17:04:40

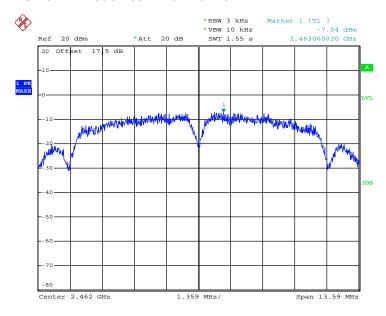
TEL: +86-755-3320-2398 FCC ID: YHLBLULIFEPLAY Page Number : 34 of 85 Report Issued Date: Jun. 13, 2013

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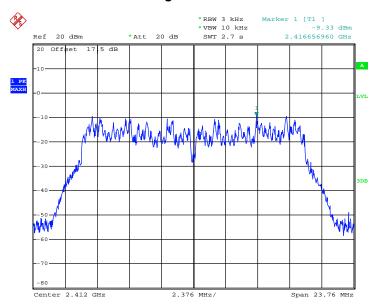
Report No. : FR350801B

PSD 3kHz Plot on 802.11b Channel 11



Date: 18.MAY.2013 17:08:29

PSD 3kHz Plot on 802.11g Channel 01

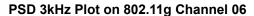


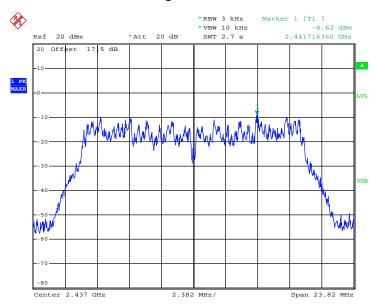
Date: 18.MAY.2013 17:13:54

TEL: +86-755- 3320-2398 FCC ID: YHLBLULIFEPLAY Page Number : 35 of 85
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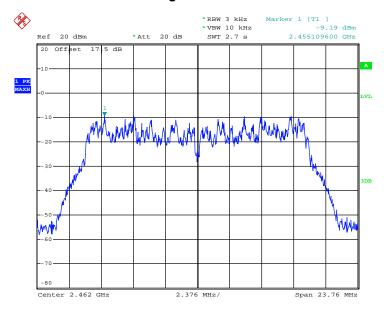
rt Report No. : FR350801B





Date: 18.MAY.2013 17:18:22

PSD 3kHz Plot on 802.11g Channel 11

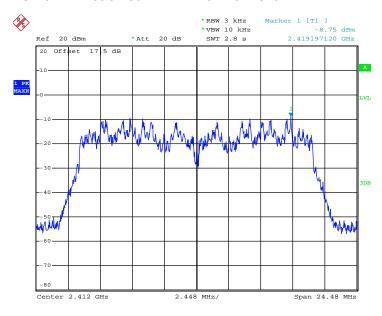


Date: 18.MAY.2013 17:22:03

TEL: +86-755- 3320-2398 FCC ID: YHLBLULIFEPLAY Page Number : 36 of 85
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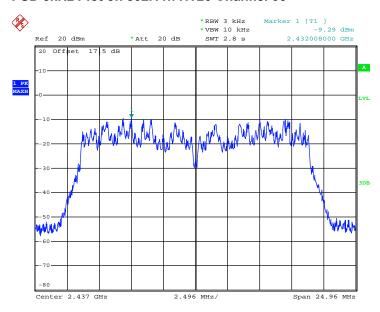


PSD 3kHz Plot on 802.11n HT20 Channel 01



Date: 18.MAY.2013 17:26:56

PSD 3kHz Plot on 802.11n HT20 Channel 06



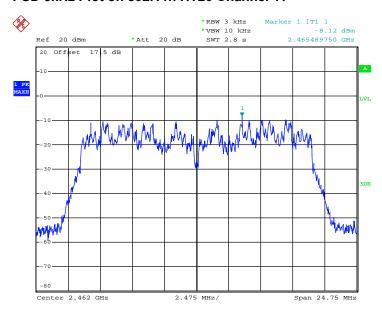
Date: 18.MAY.2013 17:31:52

TEL: +86-755- 3320-2398 FCC ID: YHLBLULIFEPLAY Page Number : 37 of 85
Report Issued Date : Jun. 13, 2013
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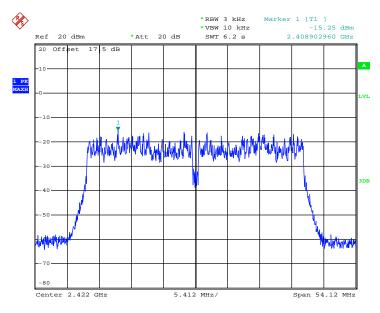
Report No.: FR350801B

PSD 3kHz Plot on 802.11n HT20 Channel 11



Date: 18.MAY.2013 17:34:37

PSD 3kHz Plot on 802.11n HT40 Channel 03



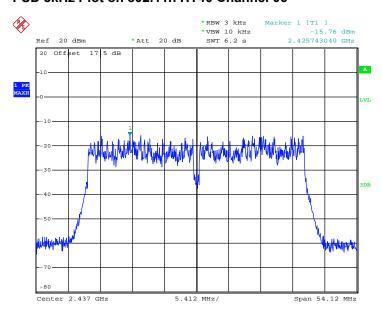
Date: 18.MAY.2013 17:53:59

TEL: +86-755- 3320-2398 FCC ID: YHLBLULIFEPLAY Page Number : 38 of 85
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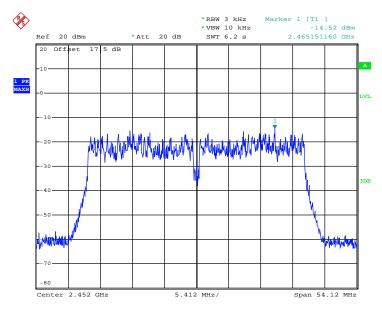
Report No. : FR350801B

PSD 3kHz Plot on 802.11n HT40 Channel 06



Date: 18.MAY.2013 17:59:07

PSD 3kHz Plot on 802.11n HT40 Channel 09



Date: 18.MAY.2013 18:02:32

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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

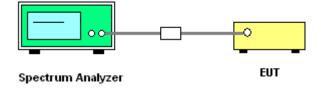
See list of measuring instruments of this test report.

3.4.3 Test Procedures

- 1. The testing follows the Measurement Procedure of FCC KDB No. 558074 D01 DTS Meas. Guidance v03r01.
- 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Set RBW = 100 KHz, VBW=300 KHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz, when maximum peak conducted output power procedure is used. The attenuation is set to 30dB, when maximum conducted output power procedure is used.
- 5. Measure and record the results in the test report.

3.4.4 Test Setup

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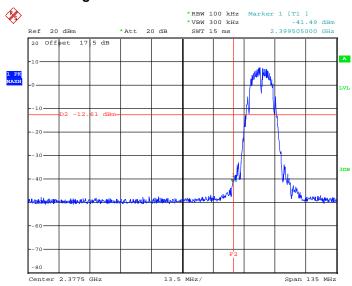
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3.4.5 Test Plots of Conducted Band Edges

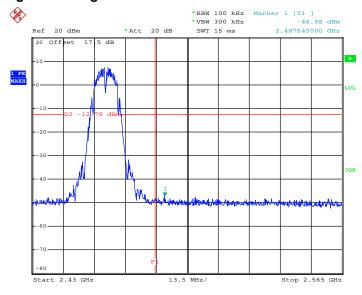
Test Mode :	802.11b	Temperature :	24~26 ℃
Test Band :	Low and High	Relative Humidity :	50~53%
Test Channel :	01 and 11	Test Engineer :	Blithe Li

Low Band Edge Plot on 802.11b Channel 01



Date: 18.MAY.2013 17:01:34

High Band Edge Plot on 802.11b Channel 11



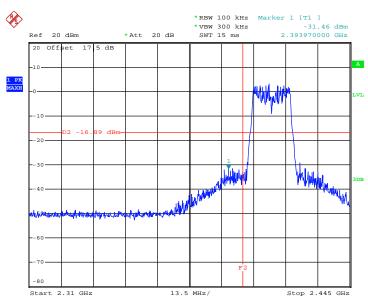
Date: 18.MAY.2013 17:10:47

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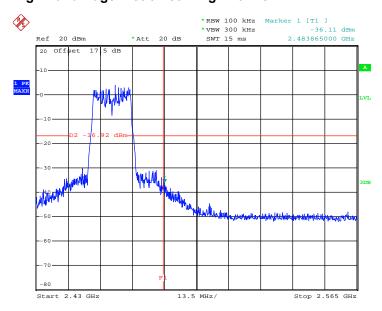
Test Mode :	802.11g	Temperature :	24~26℃
Test Band :	Low and High	Relative Humidity :	50~53%
Test Channel :	01 and 11	Test Engineer :	Blithe Li

Low Band Edge Plot on 802.11g Channel 01



Date: 18.MAY.2013 17:15:20

High Band Edge Plot on 802.11g Channel 11



Date: 18.MAY.2013 17:23:51

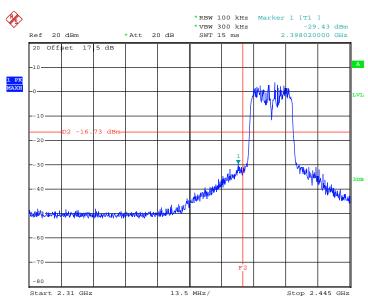
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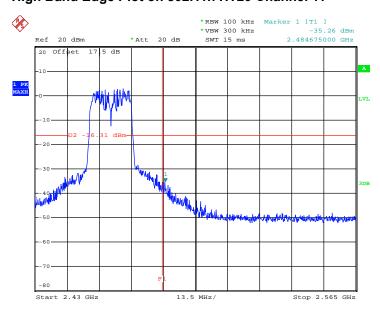
Test Mode :	802.11n HT20	Temperature :	24~26 ℃
Test Band :	Low and High	Relative Humidity :	50~53%
Test Channel :	01 and 11	Test Engineer :	Blithe Li

Low Band Edge Plot on 802.11n HT20 Channel 01



Date: 18.MAY.2013 17:27:33

High Band Edge Plot on 802.11n HT20 Channel 11



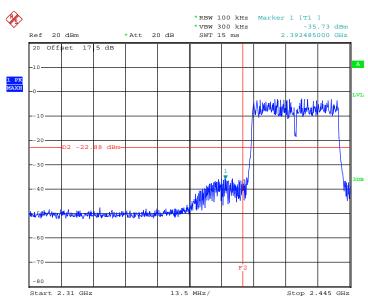
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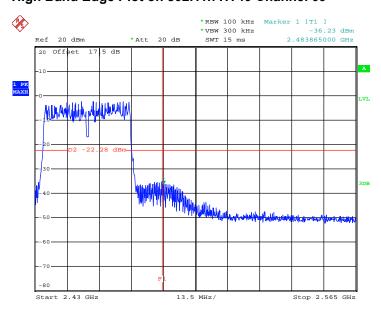
Test Mode :	802.11n HT40	Temperature :	24~26℃
Test Band :	Low and High	Relative Humidity :	50~53%
Test Channel :	03 and 09	Test Engineer :	Blithe Li

Low Band Edge Plot on 802.11n HT40 Channel 03



Date: 18.MAY.2013 17:54:39

High Band Edge Plot on 802.11n HT40 Channel 09



Date: 18.MAY.2013 18:03:22

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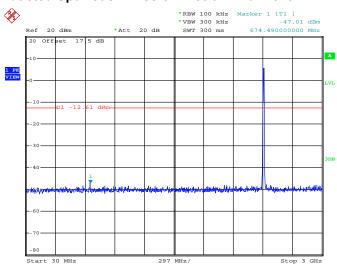


3.4.6 Test Plots of Spurious Emission

Test Mode :	802.11b	Temperature :	24~26℃
Test Band :	30MHz-3GHz and 2G-25GHz	Relative Humidity :	50~53%
Test Channel :	01, 06, 11	Test Engineer :	Blithe Li

802.11b 30 MHz~3 GHz

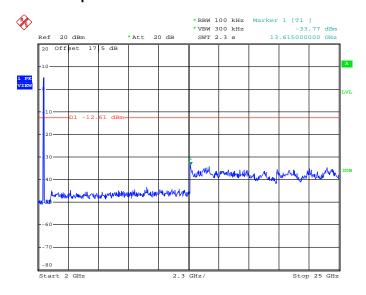
Conducted Spurious Emission Plot on Channel 01



Date: 18.MAY.2013 17:02:18

802.11b 2 GHz~25 GHz

Conducted Spurious Emission Plot on Channel 01



Date: 18.MAY.2013 17:02:36

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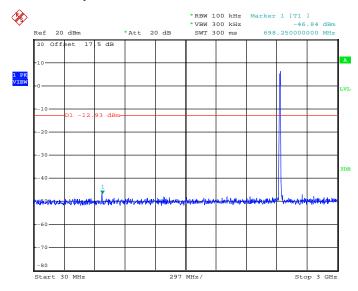
Report No.: FR350801B



Report No.: FR350801B

802.11b 30 MHz~3 GHz

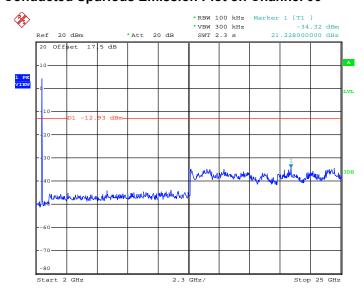
Conducted Spurious Emission Plot on Channel 06



Date: 18.MAY.2013 17:05:17

802.11b 2 GHz~25 GHz

Conducted Spurious Emission Plot on Channel 06



Date: 18.MAY.2013 17:05:36

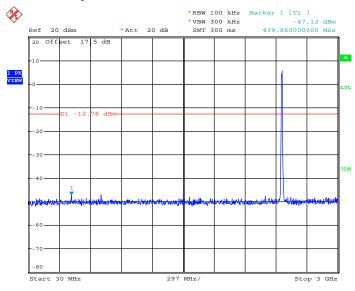
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802.11b 30 MHz~3 GHz

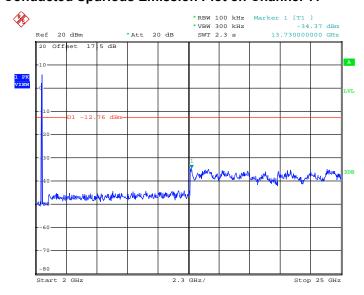
Conducted Spurious Emission Plot on Channel 11



Date: 18.MAY.2013 17:11:22

802.11b 2 GHz~25 GHz

Conducted Spurious Emission Plot on Channel 11



Date: 18.MAY.2013 17:11:41

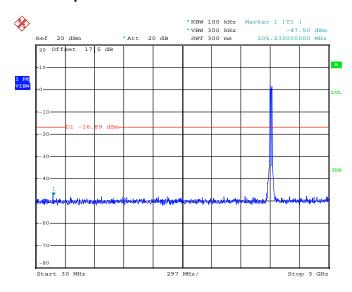
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Test Mode :	802.11g	Temperature :	24~26 ℃	
Test Band :	30MHz-3GHz and 2G-25GHz	Relative Humidity :	50~53%	
Test Channel :	01, 06, 11	Test Engineer :	Blithe Li	

802.11g 30 MHz~3 GHz

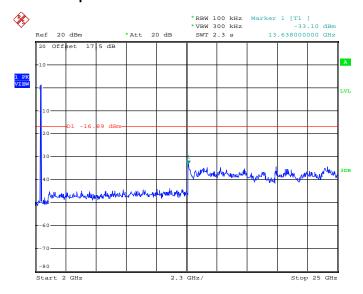
Conducted Spurious Emission Plot on Channel 01



Date: 18.MAY.2013 17:15:43

802.11g 2 GHz~25 GHz

Conducted Spurious Emission Plot on Channel 01



Date: 18.MAY.2013 17:16:01

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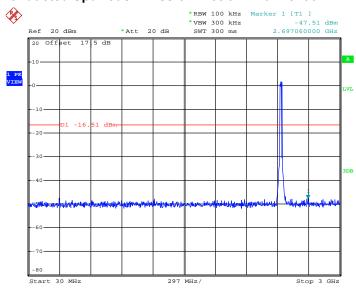
802.11g 30 MHz~3 GHz

Conducted Spurious Emission Plot on Channel 06

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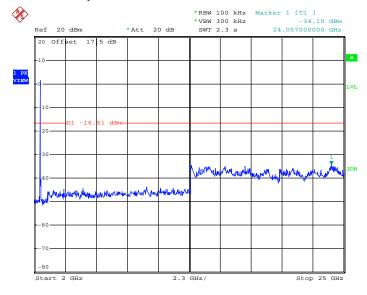
: Rev. 01



Date: 18.MAY.2013 17:19:43

802.11g 2 GHz~25 GHz

Conducted Spurious Emission Plot on Channel 06



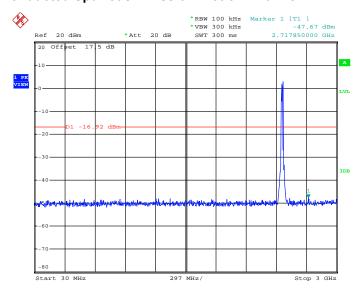
Date: 18.MAY.2013 17:20:02



Report No.: FR350801B

802.11g 30 MHz~3 GHz

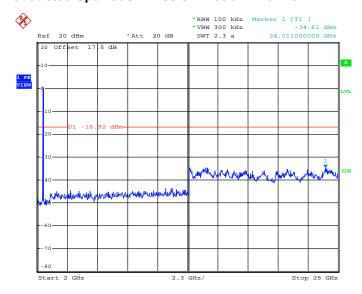
Conducted Spurious Emission Plot on Channel 11



Date: 18.MAY.2013 17:24:16

802.11g 2 GHz~25 GHz

Conducted Spurious Emission Plot on Channel 11



Date: 18.MAY.2013 17:24:35

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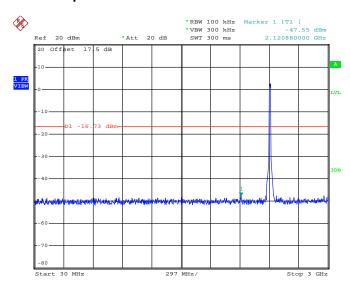
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Test Mode :	802.11n HT20	Temperature :	24~26℃
Test Band :	30MHz-3GHz and 2G-25GHz	Relative Humidity :	50~53%
Test Channel :	01, 06, 11	Test Engineer :	Blithe Li

802.11n HT20 30 MHz~3 GHz

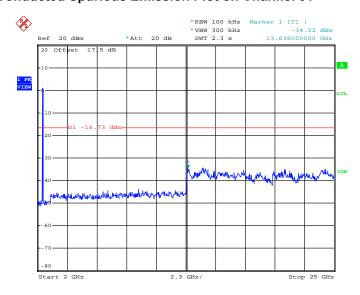
Conducted Spurious Emission Plot on Channel 01



Date: 18.MAY.2013 17:27:58

802.11n HT20 2 GHz~25 GHz

Conducted Spurious Emission Plot on Channel 01



Date: 18.MAY.2013 17:28:16

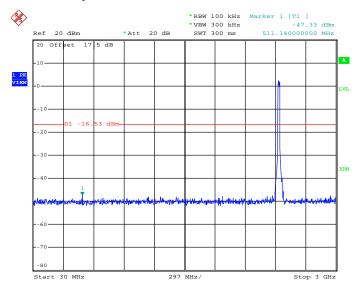
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802.11n HT20 30 MHz~3 GHz

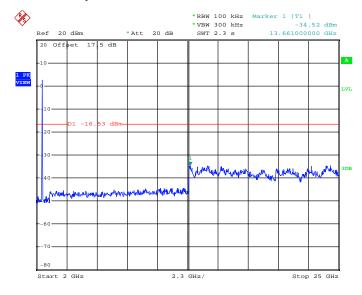
Conducted Spurious Emission Plot on Channel 06



Date: 18.MAY.2013 17:32:15

802.11n HT20 2 GHz~25 GHz

Conducted Spurious Emission Plot on Channel 06



Date: 18.MAY.2013 17:32:34

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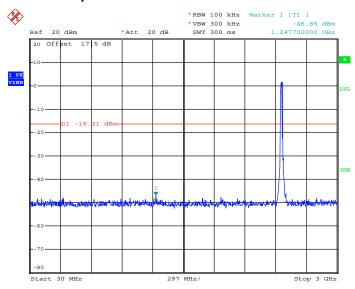
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802.11n HT20 30 MHz~3 GHz

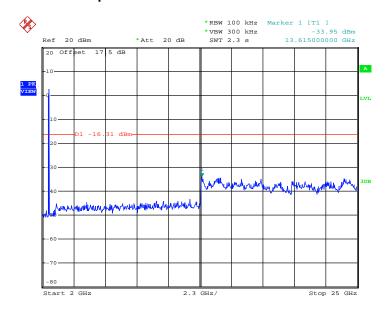
Conducted Spurious Emission Plot on Channel 11



Date: 18.MAY.2013 17:37:52

802.11n HT20 2 GHz~25 GHz

Conducted Spurious Emission Plot on Channel 11



Date: 18.MAY.2013 17:36:35

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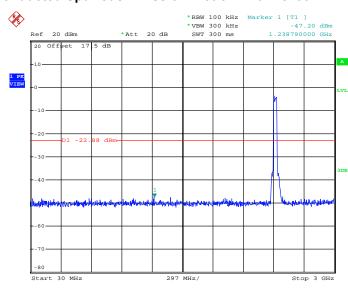
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Test Mode :	est Mode: 802.11n HT40		24~26
Test Band :	30MHz-3GHz and 2G-25GHz	Relative Humidity :	50~53
Test Channel :	03, 06, 09	Test Engineer :	Blithe Li

802.11n HT40 30 MHz~3 GHz

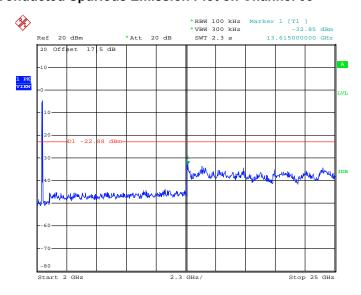
Conducted Spurious Emission Plot on Channel 03



Date: 18.MAY.2013 17:55:04

802.11n HT40 2 GHz~25 GHz

Conducted Spurious Emission Plot on Channel 03



Date: 18.MAY.2013 17:55:23

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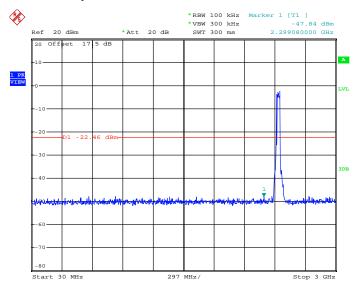
Report No.: FR350801B



Report No.: FR350801B

802.11n HT40 30 MHz~3 GHz

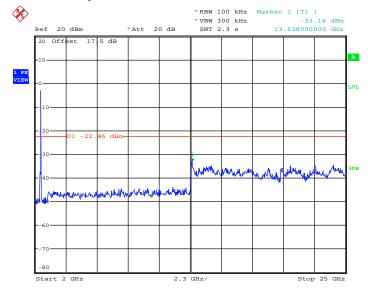
Conducted Spurious Emission Plot on Channel 06



Date: 18.MAY.2013 17:59:50

802.11n HT40 2 GHz~25 GHz

Conducted Spurious Emission Plot on Channel 06



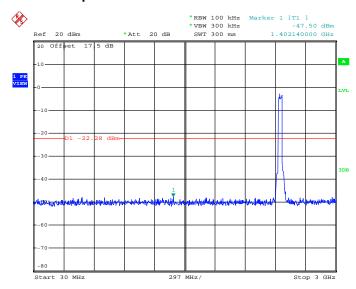
Date: 18.MAY.2013 18:00:09

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802.11n HT40 30 MHz~3 GHz

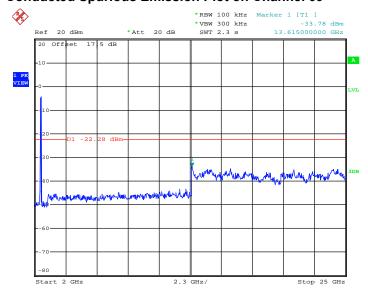
Conducted Spurious Emission Plot on Channel 09



Date: 18.MAY.2013 18:04:47

802.11n HT40 2 GHz~25 GHz

Conducted Spurious Emission Plot on Channel 09



Date: 18.MAY.2013 18:05:05

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3.5 Radiated Band Edges and Spurious Emission Measurement

3.5.1 Limit of Radiated Band Edges and Spurious Emission

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

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

3.5.2 Measuring Instruments

See list of measuring instruments of this test report.

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3.5.3 Test Procedures

- 1. The testing follows the guidelines in ANSI C63. 10-2009
- 2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.

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

Band	Duty Cycle(%)	T(us)	1/T(KHz)	VBW Setting
802.11b	98.640	-	-	10Hz
802.11g	93.224	1.396	0.717	1KHz
2.4G 802.11n HT20	92.652	1.307	0.765	1KHz
2.4G 802.11n HT40	86.277	0.651	1.535	3KHz

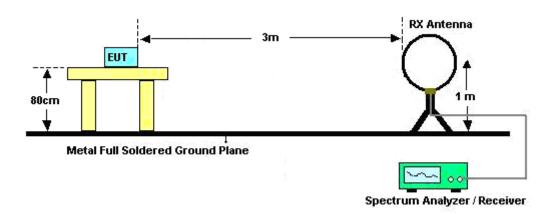
Note: For average measurement with duty cycle < 98%, use reduced VBW measurement method 4.2.3.2.3 in ANSI C63.10.

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3.5.4 Test Setup

For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz

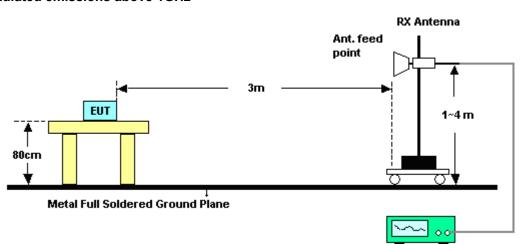


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For radiated emissions above 1GHz

3.5.5 Test Results of Radiated Spurious Emission (9 KHz ~ 30 MHz)

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

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Spectrum Analyzer / Receiver

3.5.6 Test Result of Radiated Band Edges

Test Mode :	802.11b	Temperature :	23~24 ℃	
Test Band :	Low	Relative Humidity :	42~43%	
Test Channel :	01	Test Engineer :	John Zheng	

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	ANTENNA POLARITY : HORIZONTAL									
Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2390	47.37	-26.63	74	40.59	32.14	4.42	29.78	132	354	Peak
2390	36.18	-17.82	54	29.4	32.14	4.42	29.78	132	354	Average

	ANTENNA POLARITY : VERTICAL											
Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark		
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos			
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)			
2389.29	50.55	-23.45	74	43.78	32.14	4.42	29.79	100	56	Peak		
2390	39.89	-14.11	54	33.11	32.14	4.42	29.78	100	56	Average		

Test Mode :	802.11b	Temperature :	23~24 ℃
Test Band :	High	Relative Humidity :	42~43%
Test Channel :	11	Test Engineer :	John Zheng

	ANTENNA POLARITY : HORIZONTAL											
Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark		
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos			
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)			
2483.86	55.81	-18.19	74	48.83	32.27	4.47	29.76	122	300	Peak		
2483.5	45.8	-8.2	54	38.82	32.27	4.47	29.76	122	300	Average		

	ANTENNA POLARITY : VERTICAL											
Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark		
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos			
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)			
2483.86	58.28	-15.72	74	51.3	32.27	4.47	29.76	126	86	Peak		
2483.5	48.7	-5.3	54	41.72	32.27	4.47	29.76	126	86	Average		

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Test Mode :	802.11g	Temperature :	23~24 ℃
Test Band :	Low	Relative Humidity :	42~43%
Test Channel :	01	Test Engineer :	John Zheng

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	ANTENNA POLARITY : HORIZONTAL											
Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark		
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos			
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)			
2389.74	69.16	-4.84	74	65.49	29.04	4.42	29.79	100	337	Peak		
									001			

	ANTENNA POLARITY : VERTICAL											
Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark		
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos			
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)			
2389.47	69.19	-4.81	74	65.52	29.04	4.42	29.79	104	51	Peak		
2390	44.68	-9.32	54	41	29.04	4.42	29.78	104	51	Average		

Test Mode :	802.11g	Temperature :	23~24 ℃
Test Band :	High	Relative Humidity :	42~43%
Test Channel :	11	Test Engineer :	John Zheng

	ANTENNA POLARITY : HORIZONTAL											
Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark		
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos			
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)			
2483.83	65.66	-8.34	74	58.68	32.27	4.47	29.76	100	298	Peak		
2483.53	41.41	-12.59	54	34.43	32.27	4.47	29.76	100	298	Average		

	ANTENNA POLARITY : VERTICAL											
Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark		
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos			
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)			
2484.7	70.46	-3.54	74	63.48	32.27	4.47	29.76	100	88	Peak		
2483.68	47.83	-6.17	54	40.85	32.27	4.47	29.76	100	88	Average		

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Test Mode :	802.11n HT20	Temperature :	23~24 ℃
Test Band :	Low	Relative Humidity :	42~43%
Test Channel :	01	Test Engineer :	John Zheng

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	ANTENNA POLARITY : HORIZONTAL											
Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark		
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos			
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)			
2389.2	68.35	-5.65	74	61.58	32.14	4.42	29.79	200	0	Peak		
				01.00	02				Ŭ			

	ANTENNA POLARITY: VERTICAL												
Frequency	cy Level Over Limit Read Antenna Cable Preamp Ant Table Remark												
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos				
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)				
2389.83	70.79	-3.21	74	64.01	32.14	4.42	29.78	181	73	Peak			
2389.74	45.04	-8.96	54	38.27	32.14	4.42	29.79	181	73	Average			

Test Mode :	802.11n HT20	Temperature :	23~24 ℃
Test Band :	High	Relative Humidity :	42~43%
Test Channel :	11	Test Engineer :	John Zheng

	ANTENNA POLARITY : HORIZONTAL												
Frequency	cy Level Over Limit Read Antenna Cable Preamp Ant Table Remark												
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos				
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)				
2483.89	68.58	-5.42	74	61.6	32.27	4.47	29.76	145	296	Peak			
2483.5	46.06	-7.94	54	39.08	32.27	4.47	29.76	145	296	Average			

	ANTENNA POLARITY: VERTICAL												
Frequency	cy Level Over Limit Read Antenna Cable Preamp Ant Table Rema												
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos				
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)				
2483.92	68.36	-5.64	74	61.38	32.27	4.47	29.76	122	89	Peak			
2483.5	47.79	-6.21	54	40.81	32.27	4.47	29.76	122	89	Average			

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Test Mode :	802.11n HT40	Temperature :	23~24 ℃
Test Band :	Low	Relative Humidity :	42~43%
Test Channel :	03	Test Engineer :	John Zheng

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	ANTENNA POLARITY : HORIZONTAL												
Frequency	Level	Level Over Limit Read Antenna Cable Preamp Ant Table											
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos				
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)				
2389.47	61.27	-12.73	74	54.5	32.14	4.42	29.79	100	355	Peak			

	ANTENNA POLARITY: VERTICAL												
Frequency	y Level Over Limit Read Antenna Cable Preamp Ant Table Remark												
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos				
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)				
2388.48	66.96	-7.04	74	60.19	32.14	4.42	29.79	126	66	Peak			
2389.74	43.52	-10.48	54	36.75	32.14	4.42	29.79	126	66	Average			

Test Mode :	802.11n HT40	Temperature :	23~24 ℃
Test Band :	High	Relative Humidity :	42~43%
Test Channel :	09	Test Engineer :	John Zheng

	ANTENNA POLARITY : HORIZONTAL												
Frequency	uency Level Over Limit Read Antenna Cable Preamp Ant Table Remark												
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos				
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)				
2486.17	65.99	-8.01	74	59.01	32.27	4.47	29.76	100	193	Peak			
2485.06	45.67	-8.33	54	38.69	32.27	4.47	29.76	100	193	Average			

	ANTENNA POLARITY: VERTICAL												
Frequency													
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos				
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)				
2486.53	69.99	-4.01	74	63.01	32.27	4.47	29.76	149	61	Peak			
2483.59	47.87	-6.13	54	40.89	32.27	4.47	29.76	149	61	Peak			

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3.5.7 Test Result of Radiated Spurious Emission (30 MHz $\sim 10^{th}$ Harmonic)

Note: Below 1GHz for radiated emission measurement, pre-scanned all test modes and only choose the worst case mode was recorded in the report.

Test Mode :	802	2.11b	Temperature :	23~24℃				
Test Channel :	01		Relative Humidity :	42~43%				
Test Engineer :	Joł	nn Zheng	Polarization :	Horizontal				
	1.	2412 MHz is fundament	al signal which can be ignored.					
	2.	2399 MHz and 7236 MHz is not within a restricted band, and its limit						
Remark :		20dB below the highest emission level. For example, 102.9dBuV/m - 20						
Remark :		82.9 dBuV/m.						
	3.	Average measurement	was not performed if	peak level went lower than the				
		average limit.						

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2399	55.01	-27.89	82.9	48.23	32.14	4.42	29.78	132	354	Peak
2412	102.9	-	-	96.07	32.17	4.44	29.78	132	354	Peak
2412	97.45	-	-	90.62	32.17	4.44	29.78	132	354	Average
4824	39.08	-34.92	74	57.06	33.68	5.95	57.61	100	236	Peak
7236	40.02	-42.88	82.9	55.13	35.29	7.58	57.98	200	320	Peak

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Test Mode :	802	2.11b	Temperature :	23~24 ℃			
Test Channel :	01		Relative Humidity :	42~43%			
Test Engineer :	Jol	nn Zheng	Polarization :	Vertical			
	1.	2412 MHz is fundamental signal which can be ignored.					
	2.	2399 MHz and 7236 M	Hz is not within a rest	ricted band, and its limit line is			
Remark :		20dB below the highest emission level.					
	3.	Average measurement was not performed if peak level went lower than the					
		average limit.					

Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2399	59.94	-26.1	86.04	53.16	32.14	4.42	29.78	100	56	Peak
2412	106.04	-	-	99.21	32.17	4.44	29.78	100	56	Peak
2412	100.49	-	-	93.66	32.17	4.44	29.78	100	56	Average
4824	38.65	-35.35	74	56.63	33.68	5.95	57.61	110	210	Peak
7236	39.63	-46.41	86.04	54.74	35.29	7.58	57.98	200	320	Peak

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Test Mode :	802.11b	Temperature :	23~24 ℃					
Test Channel :	06	Relative Humidity :	42~43%					
Test Engineer :	John Zheng	Polarization :	Horizontal					
	1. 2437 MHz is fundament	al signal which can be	ignored.					
Remark :	2. Average measurement was not performed if peak level went lower than the							
	average limit.	average limit.						

Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2437	108.1	-	-	101.2	32.22	4.45	29.77	119	300	Peak
2437	102.68	-	-	95.78	32.22	4.45	29.77	119	300	Average
4874	41.54	-32.46	74	59.12	33.8	6.02	57.4	100	117	Peak
7311	40.64	-33.36	74	55.5	35.31	7.8	57.97	100	192	Peak

Test Mode :	802.11b	Temperature :	23~24 ℃					
Test Channel :	06	Relative Humidity :	42~43%					
Test Engineer :	John Zheng	Polarization :	Vertical					
	1. 2437 MHz is fundament	2437 MHz is fundamental signal which can be ignored.						
Remark :	2. Average measurement was not performed if peak level went lower							
	average limit.	average limit.						

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	($dB\mu V/m$)	(dB)	$(dB\mu V/m)$	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2437	109.5	-	-	102.6	32.22	4.45	29.77	104	88	Peak
2437	104.09	-	-	97.19	32.22	4.45	29.77	104	88	Average
4874	40.8	-33.2	74	58.38	33.8	6.02	57.4	100	256	Peak
7311	39.95	-34.05	74	54.81	35.31	7.8	57.97	100	95	Peak

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Test Mode :	802.11b	Temperature :	23~24℃				
Test Channel :	11	Relative Humidity :	42~43%				
Test Engineer :	John Zheng	Polarization :	Horizontal				
	1. 2462 MHz is fundament	ignored.					
Remark :	2. Average measurement was not performed if peak level went lower than the						
	average limit.						

Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2462	109.57	-	-	102.62	32.24	4.47	29.76	122	300	Peak
2462	103.91	-	-	96.96	32.24	4.47	29.76	122	300	Average
4924	38	-36	74	55.17	33.92	6.1	57.19	100	165	Peak
7386	40.68	-33.32	74	55.15	35.35	8.12	57.94	122	331	Peak

Test Mode :	802.11b	Temperature :	23~24℃					
Test Channel :	11	Relative Humidity :	42~43%					
Test Engineer :	John Zheng	Polarization :	Vertical					
	1. 2462 MHz is fundament	2462 MHz is fundamental signal which can be ignored.						
Remark :	2. Average measurement was not performed if peak level went lowe							
	average limit.	average limit.						

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	$(dB\mu V/m)$	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2462	111.33	-	-	104.38	32.24	4.47	29.76	126	86	Peak
2462	106.04	-	-	99.09	32.24	4.47	29.76	126	86	Average
4924	39.35	-34.65	74	56.52	33.92	6.1	57.19	106	89	Peak
7386	40.56	-33.44	74	55.03	35.35	8.12	57.94	100	246	Peak

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Test Mode :	802	2.11g	Temperature :	23~24 ℃			
Test Channel :	01		Relative Humidity :	42~43%			
Test Engineer :	Jol	nn Zheng	Polarization :	Horizontal			
	1.	2412 MHz is fundamental signal which can be ignored.					
	2.	2399 MHz and 7236 M	Hz is not within a rest	tricted band, and its limit line is			
Remark :		20dB below the highest emission level.					
	3.	Average measurement	was not performed if	peak level went lower than the			
		average limit.					

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2399	75.71	-7.79	83.5	72.03	29.04	4.42	29.78	100	337	Peak
2412	103.5	-	-	99.77	29.07	4.44	29.78	100	337	Peak
2412	93.82	-	-	90.09	29.07	4.44	29.78	100	337	Average
4824	38.84	-35.16	74	56.82	33.68	5.95	57.61	100	199	Peak
7236	39.33	-44.17	83.5	54.44	35.29	7.58	57.98	100	163	Peak

Test Mode :	802	2.11g	Temperature :	23~24℃				
Test Channel :	01		Relative Humidity :	42~43%				
Test Engineer :	Joh	nn Zheng	Polarization :	Vertical				
	1.	2412 MHz is fundamental signal which can be ignored.						
	2.	2399 MHz and 7236 M	Hz is not within a rest	ricted band, and its limit line is				
Remark :		20dB below the highest emission level.						
	3.	Average measurement	was not performed if	peak level went lower than the				
		average limit.						

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	($dB\mu V/m$)	(dB)	($dB\mu V/m$)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2399	71.89	-9.39	81.28	68.21	29.04	4.42	29.78	104	51	Peak
2412	101.28	-	-	97.55	29.07	4.44	29.78	104	51	Peak
2412	91.8	-	-	88.07	29.07	4.44	29.78	104	51	Average
4824	39.33	-34.67	74	57.31	33.68	5.95	57.61	100	175	Peak
7236	39.54	-41.74	81.28	54.65	35.29	7.58	57.98	132	59	Peak

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Test Mode :	802.11g	Temperature :	23~24 ℃				
Test Channel :	06	Relative Humidity :	42~43%				
Test Engineer :	John Zheng	Polarization :	Horizontal				
	1. 2437 MHz is fundament	2437 MHz is fundamental signal which can be ignored.					
Remark :	peak level went lower than the						
	average limit.						

Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2437	106.67	-	-	102.87	29.12	4.45	29.77	100	333	Peak
2437	97.57	-	-	93.77	29.12	4.45	29.77	100	333	Average
4874	39.2	-34.8	74	56.78	33.8	6.02	57.4	100	155	Peak
7311	39.52	-34.48	74	54.38	35.31	7.8	57.97	120	336	Peak

Test Mode :	802.11g	Temperature :	23~24 ℃				
Test Channel :	06	Relative Humidity :	42~43%				
Test Engineer :	John Zheng	Polarization :	Vertical				
	1. 2437 MHz is fundament	2437 MHz is fundamental signal which can be ignored.					
Remark :	2. Average measurement was not performed if peak level went lower than the						
	average limit.						

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	$(dB\mu V/m)$	(dB)	($dB\mu V/m$)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2437	105.03	-	-	101.23	29.12	4.45	29.77	100	99	Peak
2437	95.99	-	-	92.19	29.12	4.45	29.77	100	99	Average
4874	42.68	-31.32	74	60.26	33.8	6.02	57.4	125	133	Peak
7311	39.59	-34.41	74	54.45	35.31	7.8	57.97	166	332	Peak

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Test Mode :	802.11g	Temperature :	23~24℃					
Test Channel :	11	Relative Humidity :	42~43%					
Test Engineer :	John Zheng	Polarization :	Horizontal					
	1. 2462 MHz is fundament	al signal which can be	ignored.					
Remark :	2. Average measurement was not performed if peak level went lower than the							
	average limit.	average limit.						

Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2462	102.26	-	-	95.31	32.24	4.47	29.76	100	298	Peak
2462	92.94	-	-	85.99	32.24	4.47	29.76	100	298	Average
4924	39.08	-34.92	74	56.25	33.92	6.1	57.19	100	162	Peak
7386	41.25	-32.75	74	55.72	35.35	8.12	57.94	100	164	Peak

Test Mode :	802.11g	Temperature :	23~24℃					
Test Channel :	11	Relative Humidity :	42~43%					
Test Engineer :	John Zheng	Polarization :	Vertical					
	1. 2462 MHz is fundament	al signal which can be	ignored.					
Remark :	2. Average measurement was not performed if peak level went lower than the							
	average limit.	average limit.						

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	$(dB\mu V/m)$	(dB)	$(dB\mu V/m)$	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2462	106.11	-	-	99.16	32.24	4.47	29.76	100	88	Peak
2462	96.34	-	-	89.39	32.24	4.47	29.76	100	88	Average
4924	38.98	-35.02	74	56.15	33.92	6.1	57.19	127	54	Peak
7386	41.23	-32.77	74	55.7	35.35	8.12	57.94	100	98	Peak

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Test Mode :	80	2.11n HT20	Temperature :	23~24 ℃					
Test Channel :	01		Relative Humidity :	42~43%					
Test Engineer :	Jol	nn Zheng	Polarization :	Horizontal					
	1.	. 2412 MHz is fundamental signal which can be ignored.							
	2.	2399 MHz and 7236 M	Hz is not within a rest	ricted band, and its limit line is					
Remark :		20dB below the highest	emission level.						
	3.	Average measurement was not performed if peak level went lower than the							
		average limit.							

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
(MHz)	(dBµV/m)	Limit (dB)	Line (dBµV/m)	Level (dBµV)	Factor (dB)	Loss (dB)	Factor (dB)	Pos (cm)	Pos (deg)	
108.03	30.55	-12.95	43.5	47.93	12.07	1.19	30.64	100	250	Peak
151.77	25.72	-17.78	43.5	44.6	10.35	1.26	30.49	-	-	Peak
288.39	30.36	-15.64	46	45.24	13.47	1.69	30.04	-	-	Peak
307	20.98	-25.02	46	36.17	13.08	1.71	29.98	-	-	Peak
406.4	23.34	-22.66	46	34.33	16.74	1.92	29.65	-	-	Peak
818.7	25.3	-20.7	46	30.29	21.26	2.66	28.91	-	-	Peak
2399	61.12	-23.23	84.35	54.34	32.14	4.42	29.78	200	0	Peak
2412	104.35	-	-	97.52	32.17	4.44	29.78	200	0	Peak
2412	93.83	-	-	87	32.17	4.44	29.78	200	0	Average
4824	40.38	-33.62	74	58.36	33.68	5.95	57.61	100	221	Peak
7236	40.71	-43.64	84.35	55.82	35.29	7.58	57.98	100	72	Peak

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Test Mode :	802	2.11n HT20	Temperature :	23~24℃		
Test Channel :	01		Relative Humidity :	42~43%		
Test Engineer :	Joh	nn Zheng	Polarization :	Vertical		
	1.	2412 MHz is fundament	ignored.			
	2.	2399 MHz and 7236 MHz is not within a restricted band, and its limit line i				
Remark :		20dB below the highest	emission level.			
	3.	Average measurement	was not performed if	peak level went lower than the		
		average limit.				

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	$(dB\mu V/m)$	(dB)	($dB\mu V/m$)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
104.52	32.2	-11.3	43.5	49.87	11.8	1.18	30.65	200	320	Peak
131.25	28.52	-14.98	43.5	45.44	12.4	1.24	30.56	-	-	Peak
169.05	29.35	-14.15	43.5	48.72	9.8	1.27	30.44	-	-	Peak
310.5	24.85	-21.15	46	40	13.1	1.72	29.97	-	-	Peak
396.6	26.02	-19.98	46	37.41	16.38	1.91	29.68	-	-	Peak
610.1	27.49	-18.51	46	35.19	19.2	2.29	29.19	-	-	Peak
2399	67.66	-20.8	88.46	60.88	32.14	4.42	29.78	181	73	Peak
2412	108.46	-	-	101.63	32.17	4.44	29.78	181	73	Peak
2412	98.03	-	-	91.2	32.17	4.44	29.78	181	73	Average
4824	39.13	-34.87	74	57.11	33.68	5.95	57.61	152	37	Peak
7236	41.39	-47.07	88.46	56.5	35.29	7.58	57.98	186	49	Peak

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Test Mode :	802.11n HT20	Temperature :	23~24 ℃			
Test Channel :	06	Relative Humidity :	42~43%			
Test Engineer :	John Zheng	Polarization :	Horizontal			
	1. 2437 MHz is fundament	al signal which can be	ignored.			
Remark :	2. Average measurement was not performed if peak level went lower than the					
	average limit.					

Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2437	104.96	-	-	98.06	32.22	4.45	29.77	145	289	Peak
2437	94.12	-	-	87.22	32.22	4.45	29.77	145	289	Average
4874	38.62	-35.38	74	56.2	33.8	6.02	57.4	100	226	Peak
7311	40.07	-33.93	74	54.93	35.31	7.8	57.97	100	69	Peak

Test Mode :	802.11n HT20	Temperature :	23~24 ℃			
Test Channel :	06	Relative Humidity :	42~43%			
Test Engineer :	John Zheng	Polarization :	Vertical			
	1. 2437 MHz is fundament	2437 MHz is fundamental signal which can be ignored.				
Remark :	2. Average measurement was not performed if peak level went lower than the					
	average limit.					

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	$(dB\mu V/m)$	(dB)	($dB\mu V/m$)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2437	108.33	-	-	101.43	32.22	4.45	29.77	124	71	Peak
2437	97.73	-	-	90.83	32.22	4.45	29.77	124	71	Average
4874	40.29	-33.71	74	57.87	33.8	6.02	57.4	120	199	Peak
7311	39.33	-34.67	74	54.19	35.31	7.8	57.97	132	146	Peak

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Test Mode :	802.11n HT20	Temperature :	23~24 ℃				
Test Channel :	11	Relative Humidity :	42~43%				
Test Engineer :	John Zheng	Polarization :	Horizontal				
	1. 2462 MHz is fundament	al signal which can be	ignored.				
Remark :	2. Average measurement was not performed if peak level went lower than the						
	average limit.						

Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2462	105.93	-	-	98.98	32.24	4.47	29.76	145	296	Peak
2462	94.08	-	-	87.13	32.24	4.47	29.76	145	296	Average
4924	38.52	-35.48	74	55.69	33.92	6.1	57.19	200	201	Peak
7386	40.7	-33.3	74	55.17	35.35	8.12	57.94	100	192	Peak

Test Mode :	802.11n HT20	Temperature :	23~24 ℃				
Test Channel :	11	Relative Humidity :	42~43%				
Test Engineer :	John Zheng	Polarization :	Vertical				
	1. 2462 MHz is fundament	al signal which can be	ignored.				
Remark :	2. Average measurement was not performed if peak level went lower than the						
	average limit.						

F	requency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
			Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
	(MHz)	$(dB\mu V/m)$	(dB)	$(dB\mu V/m)$	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
	2462	106.95	-	-	100	32.24	4.47	29.76	122	88	Peak
	2462	95.97	-	-	89.02	32.24	4.47	29.76	122	88	Average
	4924	38.54	-35.46	74	55.71	33.92	6.1	57.19	100	101	Peak
	7386	40.24	-33.76	74	54.71	35.35	8.12	57.94	200	175	Peak

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Test Mode :	802	2.11n HT40	Temperature :	23~24 ℃				
Test Channel :	03		Relative Humidity :	42~43%				
Test Engineer :	Jol	nn Zheng	Polarization :	Horizontal				
	1.	2422 MHz is fundament	al signal which can be ignored.					
	2.	2399 MHz is not within a restricted band, and its limit line is 20dB to						
Remark :		highest emission level.						
	3.	Average measurement	Average measurement was not performed if peak level went lower than					
		average limit.						

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
(MHz)	(dBµV/m)	Limit (dB)	Line (dBµV/m)	Level (dBµV)	Factor (dB)	Loss (dB)	Factor (dB)	Pos (cm)	Pos (deg)	
2399	60.65	-15.76	76.41	53.87	32.14	4.42	29.78	100	354	Peak
2422	96.41	-	-	89.55	32.19	4.44	29.77	100	354	Peak
2422	86.96	-	-	80.1	32.19	4.44	29.77	100	354	Average
4844	38.72	-35.28	74	56.56	33.72	5.98	57.54	200	0	Peak
7266	41.04	-32.96	74	56.02	35.3	7.69	57.97	100	0	Peak

Test Mode :	802	2.11n HT40	Temperature :	23~24℃			
Test Channel :	03		Relative Humidity :	42~43%			
Test Engineer :	Joh	nn Zheng	Polarization :	Vertical			
	1.	. 2422 MHz is fundamental signal which can be ignored.					
	2.	2399 MHz is not within	a restricted band, and	I its limit line is 20dB below the			
Remark :		highest emission level.					
	3.	Average measurement	Average measurement was not performed if peak level went lower than				
		average limit.					

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2399	69.33	-15.82	85.15	62.55	32.14	4.42	29.78	125	65	Peak
2422	105.15	-	-	98.29	32.19	4.44	29.77	125	65	Peak
2422	95.41	-	-	88.55	32.19	4.44	29.77	125	65	Average
4844	37.95	-36.05	74	55.79	33.72	5.98	57.54	100	0	Peak
7266	40.29	-33.71	74	55.27	35.3	7.69	57.97	200	0	Peak

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Test Mode :	802.11n HT40	Temperature :	23~24 ℃				
Test Channel :	06	Relative Humidity :	42~43%				
Test Engineer :	John Zheng	Polarization :	Horizontal				
	1. 2437 MHz is fundament	al signal which can be	ignored.				
Remark :	2. Average measurement was not performed if peak level went lower than the						
	average limit.						

Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2437	98.1	-	-	91.2	32.22	4.45	29.77	200	360	Peak
2437	88.26	-	-	81.36	32.22	4.45	29.77	200	360	Average
4874	38.62	-35.38	74	56.2	33.8	6.02	57.4	100	360	Peak
7311	40.07	-33.93	74	54.93	35.31	7.8	57.97	100	69	Peak

Test Mode :	802.11n HT40	Temperature :	23~24 ℃				
Test Channel :	06	Relative Humidity :	42~43%				
Test Engineer :	John Zheng	Polarization :	Vertical				
	1. 2437 MHz is fundament	al signal which can be	ignored.				
Remark :	2. Average measurement was not performed if peak level went lower than the						
	average limit.						

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	($dB\mu V/m$)	(dB)	$(dB\mu V/m)$	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2437	104.79	-	-	97.89	32.22	4.45	29.77	100	64	Peak
2437	94.9	-	-	88	32.22	4.45	29.77	100	64	Average
4874	39.83	-34.17	74	57.41	33.8	6.02	57.4	100	320	Peak
7311	39.33	-34.67	74	54.19	35.31	7.8	57.97	132	146	Peak

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Test Mode :	802.11n HT40	Temperature :	23~24 ℃				
Test Channel :	09	Relative Humidity :	42~43%				
Test Engineer :	John Zheng	Polarization :	Horizontal				
	1. 2452 MHz is fundament	al signal which can be	ignored.				
Remark :	2. Average measurement was not performed if peak level went lower than the						
	average limit.						

Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2452	99.6	-	-	92.69	32.22	4.45	29.76	100	193	Peak
2452	89.6	-	-	82.69	32.22	4.45	29.76	100	193	Average
4904	37.95	-36.05	74	55.27	33.88	6.06	57.26	200	0	Peak
7356	39.97	-34.03	74	54.58	35.33	8.01	57.95	100	0	Peak

Test Mode :	802.11n HT40	Temperature :	23~24 ℃				
Test Channel :	09	Relative Humidity :	42~43%				
Test Engineer :	John Zheng	Polarization :	Vertical				
	1. 2452 MHz is fundament	al signal which can be	ignored.				
Remark :	2. Average measurement was not performed if peak level went lower than the						
	average limit.						

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	$(dB\mu V/m)$	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2452	106.33	-	-	99.42	32.22	4.45	29.76	150	61	Peak
2452	96.62	-	-	89.71	32.22	4.45	29.76	150	61	Average
4904	38.5	-35.5	74	55.82	33.88	6.06	57.26	100	0	Peak
7356	39.9	-34.1	74	54.51	35.33	8.01	57.95	200	0	Peak

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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.

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Frequency of Emission	Conducted	Limit (dBuV)
(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

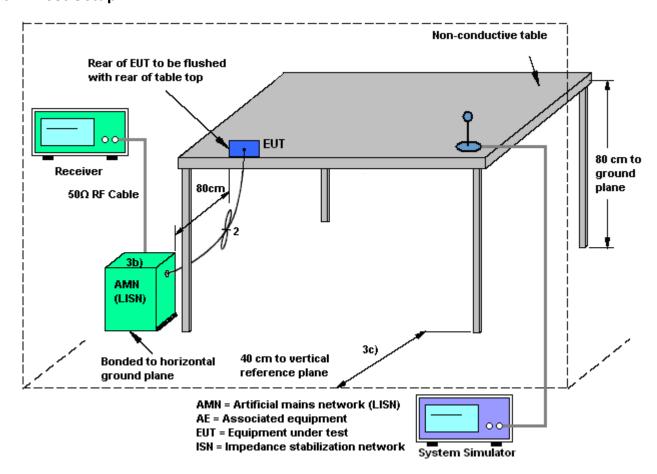
See list of measuring instruments of this test report.

3.6.3 Test Procedures

- 1. The testing follows the guidelines in ANSI C63.10-2009.
- 2. 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.
- 3. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- 4. All the support units are connecting to the other LISN.
- 5. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- 6. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
- 7. Both sides of AC line were checked for maximum conducted interference.
- 8. The frequency range from 150 KHz to 30 MHz was searched.
- 9. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.



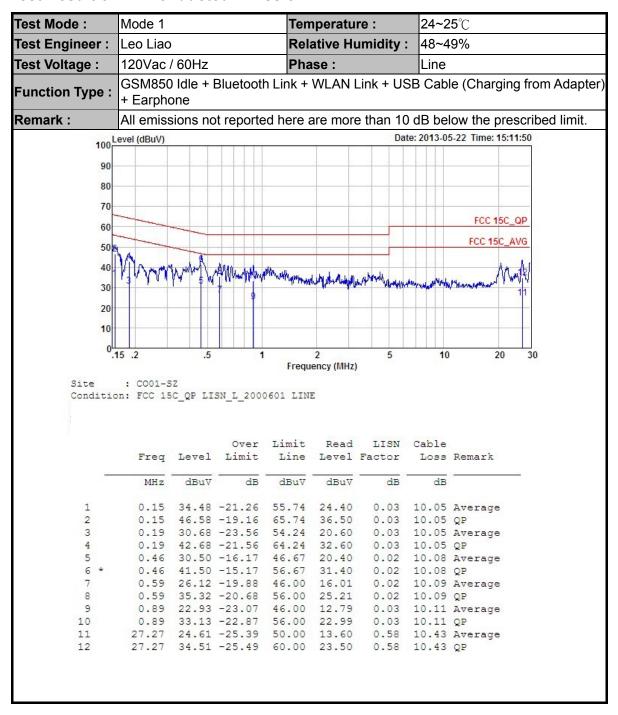
3.6.4 Test Setup



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3.6.5 Test Result of AC Conducted Emission



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Test Mode: Mode 1 Temperature : 24~25℃ Test Engineer: Leo Liao Relative Humidity: 48~49% Test Voltage: 120Vac / 60Hz Phase: Neutral GSM850 Idle + Bluetooth Link + WLAN Link + USB Cable (Charging from Adapter) Function Type: + Earphone Remark: All emissions not reported here are more than 10 dB below the prescribed limit. 100 Level (dBuV) Date: 2013-05-22 Time: 15:07:50 90 80 70 FCC 15C_QP 60 FCC 15C_AVG 50 40 30 20 10 .15 .2 5 20 .5 Frequency (MHz) Site : C001-SZ Condition: FCC 15C QP LISN N 2000601 NEUTRAL Over Limit Read LISN Cable Freq Level Limit Line Level Factor Loss Remark dBuV dB dBuV dBuV dB MHz dB 0.15 35.37 -20.37 55.74 25.30 0.02 10.05 Average 0.15 46.07 -19.67 65.74 36.00 0.02 10.05 QP 0.18 31.57 -22.85 54.42 21.50 0.02 10.05 Average 1 3 0.18 42.57 -21.85 64.42 32.50 0.46 34.70 -11.97 46.67 24.60 0.46 43.70 -12.97 56.67 33.60 0.02 10.05 QP 5 * 0.02 10.08 Average 6 0.02 10.08 QP 0.58 30.21 -15.79 46.00 20.10 0.02 10.09 Average 0.58 41.31 -14.69 56.00 31.20 0.95 28.23 -17.77 46.00 18.10 0.02 10.09 QP 0.02 10.11 Average 8 9 0.95 40.33 -15.67 56.00 30.20 10 0.02 10.11 QP 27.13 27.03 -22.97 50.00 15.70 27.13 36.53 -23.47 60.00 25.20 11 0.90 10.43 Average 0.90 10.43 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 Connected Construction

Non-standard connector 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	FSP30	101400	9kHz~30GHz	Mar. 28, 2013	May 08, 2013	Mar. 27, 2014	Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1218010	N/A	Mar. 28, 2013	May 08, 2013	Mar. 27, 2014	Conducted (TH01-SZ)
Power Sensor	Anritsu	MA2411B	1207253	N/A	Mar. 28, 2013	May 08, 2013	Mar. 27, 2014	Conducted (TH01-SZ)
DC Power Supply	TOPWORD	3303DR	N/A714621	N/A	Mar. 28, 2013	May 08, 2013	Mar. 27, 2014	Conducted (TH01-SZ)
Thermal Chamber	Hongzhan	LP-150U	HD20120425	N/A	Mar. 28, 2013	May 08, 2013	Mar. 27, 2014	Conducted (TH01-SZ)
ESCI TEST Receiver	R&S	ESCI	100724	9K-3GHz	Mar. 28, 2013	Jun. 06, 2013	Mar. 27, 2014	Radiation (03CH01-SZ)
Spectrum Analyzer	R&S	FSP30	101362	9kHz~30GHz	Oct. 11, 2012	Jun. 06, 2013	Oct. 10, 2013	Radiation (03CH01-SZ)
Double Ridge Horn Amtenna	ETS Lindgren	3117	00119436	1GHz~18GHz	Oct. 12, 2012	Jun. 06, 2013	Oct. 11, 2013	Radiation (03CH01-SZ)
Bilog Antenna	SCHAFFNER	CBL6112B	2614	30Mhz~2Ghz	Nov. 03, 2012	Jun. 06, 2013	Nov. 02, 2013	Radiation (03CH01-SZ)
Amplifier	ADVANTEST	BB525C	E9007003	9K-3000MHz GAIN 30db	Mar. 28, 2013	Jun. 06, 2013	Mar. 27, 2014	Radiation (03CH01-SZ)
Amplifier	Yiai	AV3860B	04030	2GHz~26.5GHz	Mar. 28, 2013	Jun. 06, 2013	Mar. 27, 2014	Radiation (03CH01-SZ)
SHF-EHF-Horn	Schwarzbeck	BBHA9170	BBHA9170249	14Ghz~40Ghz	Nov. 23, 2012	Jun. 06, 2013	Nov. 22, 2013	Radiation (03CH01-SZ)
Loop Antenna	R&S	HFH2-Z2	100321	9KHZ-30MHZ	Oct. 22, 2012	Jun. 06, 2013	Oct. 21, 2013	Radiation (03CH01-SZ)
ESCIO TEST Receiver	R&S	1142.8007.0	100724	9K-3GHz	Mar. 28, 2013	May 22, 2013	Mar. 27, 2014	Conduction (CO01-SZ)
AC LISN	ETS-LINDGRE N	3816/2SH	00103912	9KHz~30MHz	Mar. 28, 2013	May 22, 2013	Mar. 27, 2014	Conduction (CO01-SZ)
AC LISN	ETS-LINDGRE N	3816/2SH	00103892	9KHz~30MHz	Mar. 28, 2013	May 22, 2013	Mar. 27, 2014	Conduction (CO01-SZ)
AVR	Throma	61602	616020000891	N/A	Nov. 20, 2013	May 22, 2013	Nov. 19, 2013	Conduction (CO01-SZ)
System Simulator	Agilent	E5515C	MY50264168	GSM/WCDMA /CDMA2000	Oct. 09, 2012	May 22, 2013	Oct. 08, 2013	Conduction (CO01-SZ)

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5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of	2.26
Confidence of 95% (U = 2Uc(y))	2.20

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

Measuring Uncertainty for a Level of	
Confidence of 95% (U = 2Uc(y))	2.54

Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of	4.72
Confidence of 95% (U = 2Uc(y))	7.12

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Appendix A. Photographs of EUT

Please refer to Sporton report number EP350801 as below.

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