FCC RF Test Report

APPLICANT : CT Asia (HK) Ltd.

EQUIPMENT: Smartphone

BRAND NAME : BLU

MODEL NAME : DASH M

FCC ID : YHLBLUDASHM

STANDARD : FCC Part 15 Subpart C §15.247

CLASSIFICATION : (DTS) Digital Transmission System

The product was received on Aug. 27, 2015 and testing was completed on Sep. 09, 2015. 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.

Reviewed by: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager

SPORTON INTERNATIONAL (SHENZHEN) INC.

1F & 2F, Building A, Morning Business Center, No. 4003 ShiGu Rd., Xili Town, Nanshan District, Shenzhen, Guangdong, P. R. China

Testing Laboratory

Report No.: FR582711C

Report Version : Rev. 01

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR582711C	Rev. 01	Initial issue of report	Sep. 21, 2015

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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	15.247(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 3.02 dB at 2483.560 MHz
3.6	15.207	RSS-GEN 8.8	AC Conducted Emission	15.207(a)	Pass	Under limit 5.62 dB at 2.270 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

CT Asia (HK) Ltd.

Unit1309-11, 13th Floor 9 Wing Hong Street Cheung Sha Wan Kowloon, Hong Kong

1.2 Manufacturer

CT Asia (HK) Ltd.

Unit1309-11, 13th Floor 9 Wing Hong Street Cheung Sha Wan Kowloon, Hong Kong

1.3 Product Feature of Equipment Under Test

	Product Feature
Equipment	Smartphone
Brand Name	BLU
Model Name	DASH M
FCC ID	YHLBLUDASHM
	GSM/GPRS/EGPRS/WCDMA/HSPA/HSPA+(Downlink Only)
EUT supports Radios application	WLAN2.4GHz 802.11b/g/n HT20/HT40
	Bluetooth v3.0 + EDR/Bluetooth v4.0 LE
	Conducted: 353919026822068/353924026822068
IMEI Code	Conduction: 353919026821995/353924026821995
	Radiation: 353919026822886/353924026822886
HW Version	V1.0
SW Version	BLU_D030U_V02_GENERIC
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 subjective to this standard

802.11b : 16.99 dBm (0.0500 W) 802.11g : 18.61 dBm (0.0726 W) 802.11n HT20 : 18.58 dBm (0.0721 W) 802.11n HT40 : 18.46 dBm (0.0701 W) 802.11b : 14.00MHz 802.11g : 18.25MHz 802.11n HT20 : 18.75MHz 802.11n HT40 : 36.60MHz		
Tx/Rx Channel Frequency Range	2412 MHz ~ 2462 MHz	
	802.11b : 16.99 dBm (0.0500 W)	
Maximum (Peak) Output Power to	802.11g: 18.61 dBm (0.0726 W)	
Antenna	802.11n HT20 : 18.58 dBm (0.0721 W)	
	802.11n HT40 : 18.46 dBm (0.0701 W)	
	802.11b : 14.00MHz	
90% Occupied Pandwidth	802.11g : 18.25MHz	
39% Occupied Bandwidth	802.11n HT20 : 18.75MHz	
	802.11n HT40 : 36.60MHz	
Antenna Type / Gain	PIFA Antenna with gain 1.50 dBi	
Type of Medulation	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.

1.6 Testing Location

Test Site	SPORTON INTERNATIONAL (SHEN	ZHEN) INC.			
	1F & 2F, Building A, Morning Business Center, No. 4003 ShiGu Rd., Xili				
Toot Site Leastion	Town, Nanshan District, Shenzhen, Guangdong, P. R. China				
Test Site Location	TEL: +86-755-8637-9589				
	FAX: +86-755-8637-9595				
Took Cita No	Sportor	ո Site No.			
Test Site No.	TH01-SZ	CO01-SZ			

Test Site	SPORTON INTERNATIONAL (SHEN	ZHEN) INC.			
	No. 3 Building, the third floor of south, Shahe River west, Fengzeyuan				
Test Site Location	warehouse, Nanshan District, Shenzhen, Guangdong, P. R. China				
	TEL: +86-755- 3320-2398				
Test Site No.	Sporton Site No.	FCC/IC Registration No.			
rest site No.	03CH02-SZ	566869/4086F			

Note: The test site complies with ANSI C63.4 2009 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 v03r03
- 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. FCC permits the use of the 1.5 meter table as an alternative in C63.10-2013 through inquiry tracking number 961829.
- 3. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

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2 Test Configuration of Equipment Under Test

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conducted emission (150 kHz to 30 MHz) and radiated emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (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 MU-	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	wer vs. Char	nnel	Power vs. Data Rate							
Channel	Frequency	Data Rate	Channel	2Mbps	5.5Mbps	11Mbps				
	(MHz)	1Mbps								
CH 01	2412 MHz	16.09								
CH 06	2437 MHz	16.57	CH 11	16.94	16.98	16.96				
CH 11	2462 MHz	<mark>16.99</mark>								

	2.4GHz 802.11g RF Output Power (dBm)											
Pov	wer vs. Char	nnel		Power vs. Data Rate								
Channel	Frequency (MHz)	Data Rate	Channel	9Mbps	12Mbps	18Mbps	24Mbps	36Mbps	48Mbps	54Mbps		
	(IVITIZ)	6Mbps										
CH 01	2412 MHz	18.36										
CH 06	2437 MHz	18.41	CH 11	18.59	18.57	18.56	18.53	18.58	18.60	18.59		
CH 11	2462 MHz	<mark>18.61</mark>										

	2.4GHz 802.11n HT20 RF Output Power (dBm)											
Pov	Power vs. Channel				F	Power vs.	MCS Index	(
Channel	Fraguancy	MCS Index	Channel	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7		
	(IVITZ)	MCS0										
CH 01	2412 MHz	18.37										
CH 06	2437 MHz	18.35	CH 11	18.50	18.54	18.49	18.51	18.56	18.55	15.57		
CH 11	2462 MHz	<mark>18.58</mark>										

	2.4GHz 802.11n HT40 RF Output Power (dBm)											
Pov	Power vs. Channel			Power vs. MCS Index								
Channel	Frequency	MCS Index	Channel	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7		
	(MHz)	MCS0										
CH 03	2422 MHz	18.31										
CH 06	2437 MHz	18.36	CH 09	18.41	18.37	18.36	18.42	18.37	18.35	18.33		
CH 09	2452 MHz	<mark>18.46</mark>										

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2.3 Test Mode

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

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

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

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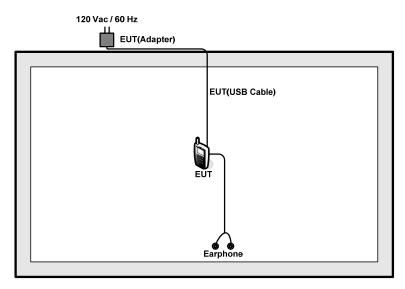
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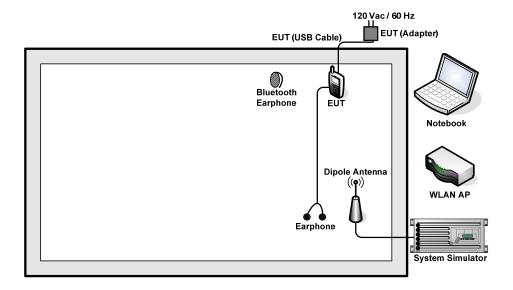
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2.4 Connection Diagram of Test System

<WLAN Tx Mode>



<AC Conducted Emission Mode>



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2.5 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m
2.	WLAN AP	D-Link	DIR-628	KA2DIR628A2	N/A	Unshielded, 1.8 m
3.	Notebook	Lenovo	E540	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
4.	Bluetooth Earphone	Nokia	BH-108	PYAHS-107W	N/A	N/A
5.	Earphone	Lenovo	SH100	FCC DoC	N/A	N/A
6.	iPod Earphone	Apple	MC690ZP/A	FCC DoC	N/A	N/A

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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.

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 5.0 dB and 10dB attenuator.

 $Offset(dB) = RF \ cable \ loss(dB) + attenuator \ factor(dB).$ = 5.0 + 10 = 15.0 (dB)

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

- 1. The testing follows FCC KDB Publication No. 558074 DTS D01 Meas. Guidance v03r03.
- 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.

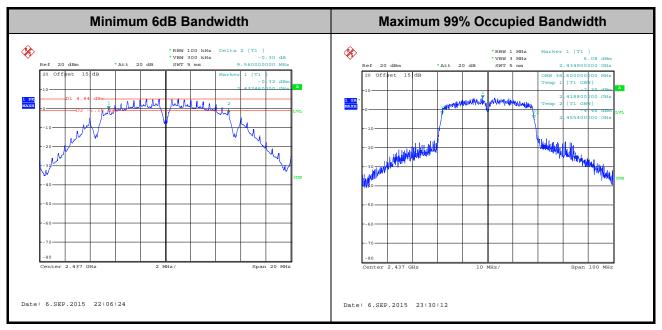
3.1.4 Test Setup



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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 v03r03.
- 2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Measure the conducted output power and record the results in the test report.

3.2.4 Test Setup



3.2.5 Test Result of Peak Output Power

Please refer to Appendix A of this test report.

3.2.6 Test Result of Average output Power (Reporting Only)

Please refer to Appendix A of this test report.

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3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

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

3.3.2 Measuring Instruments

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

3.3.3 **Test Procedures**

- The testing follows Measurement Procedure 10.2 Method PKPSD of FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r03
- 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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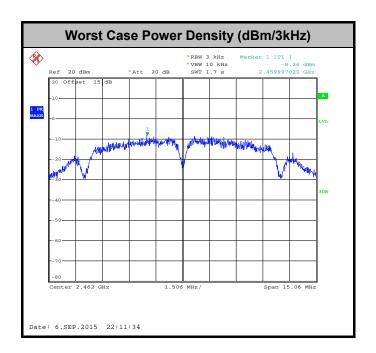
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3.3.5 Test Result of Power Spectral Density

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).

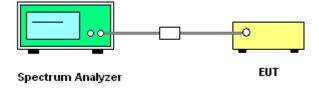
3.4.2 Measuring Instruments

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 v03r03.
- 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d).
- 5. Measure and record the results in the test report.
- 6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

3.4.4 Test Setup

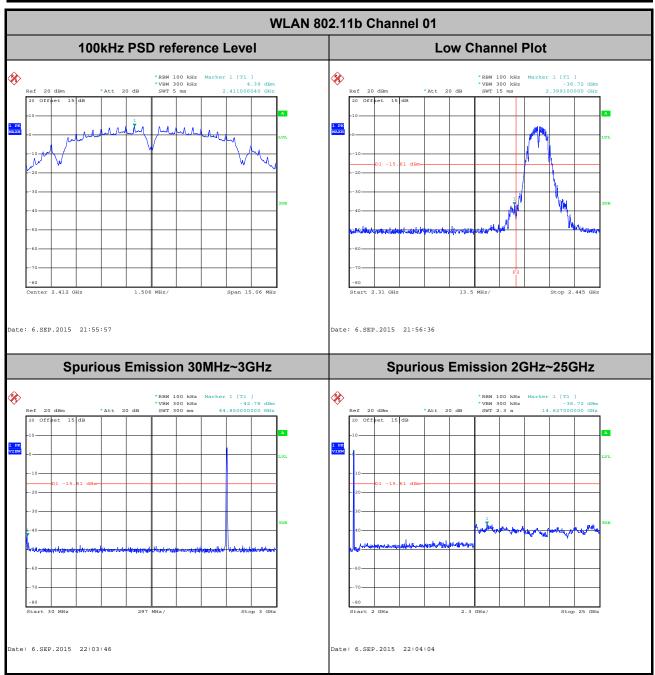


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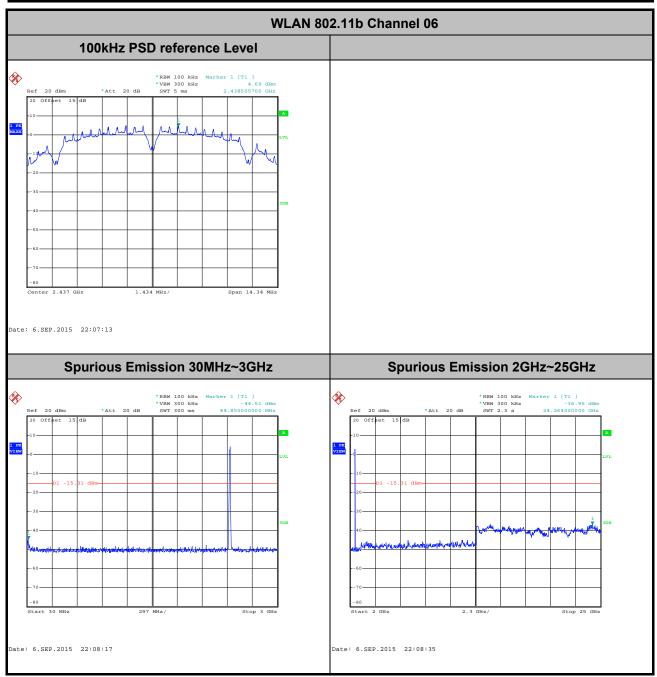
3.4.5 Test Result of Conducted Band Edges and Spurious Emission

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



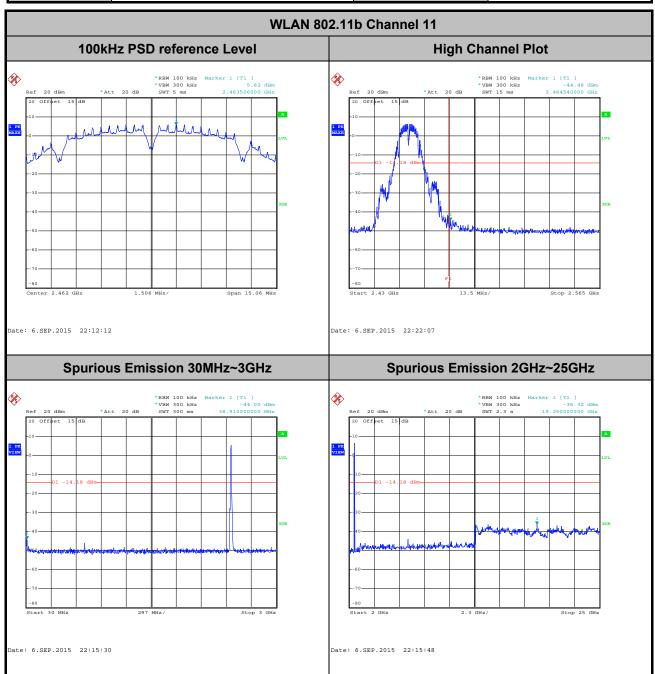
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Test Mode :	802.11b	Temperature :	24~26℃
Test Band :	2.4GHz Mid	Relative Humidity :	50~53%
Test Channel :	06	Test Engineer :	Mygai Mo



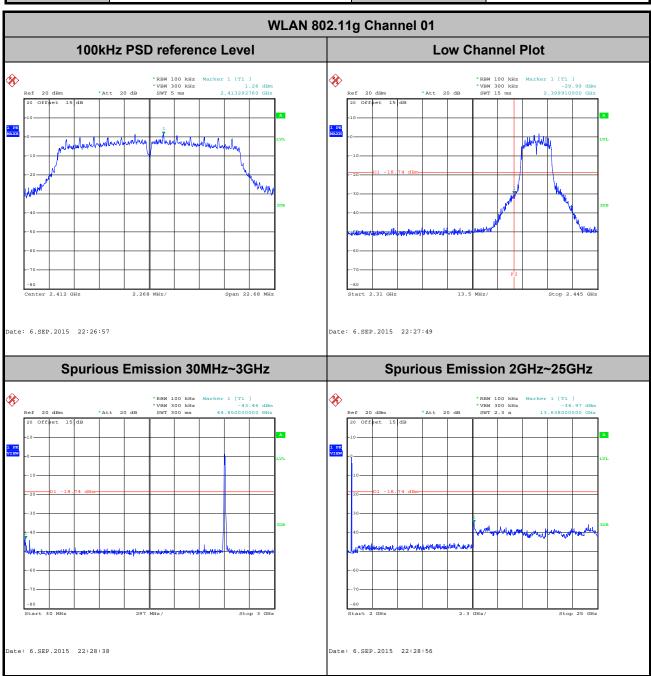
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Test Mode :	802.11b	Temperature :	24~26℃
Test Band :	2.4GHz High	Relative Humidity :	50~53%
Test Channel :	11	Test Engineer :	Mygai Mo



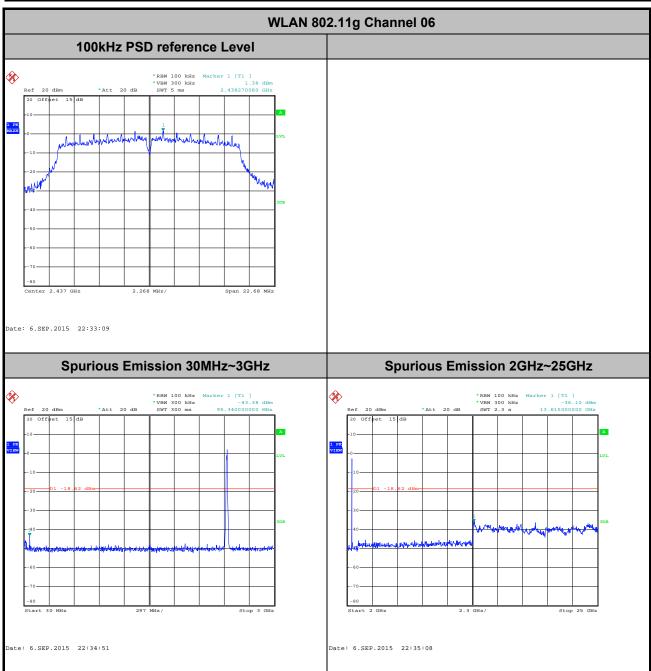
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Test Mode :	802.11g	Temperature :	24~26℃
Test Band :	2.4GHz Low	Relative Humidity :	50~53%
Test Channel :	01	Test Engineer :	Mygai Mo



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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 :	Mygai Mo

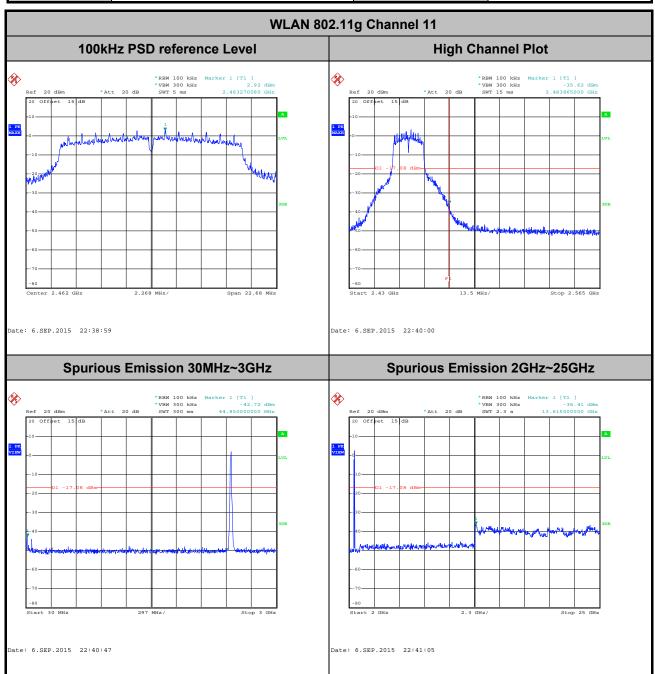


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 Test Mode :
 802.11g
 Temperature :
 24~26 ℃

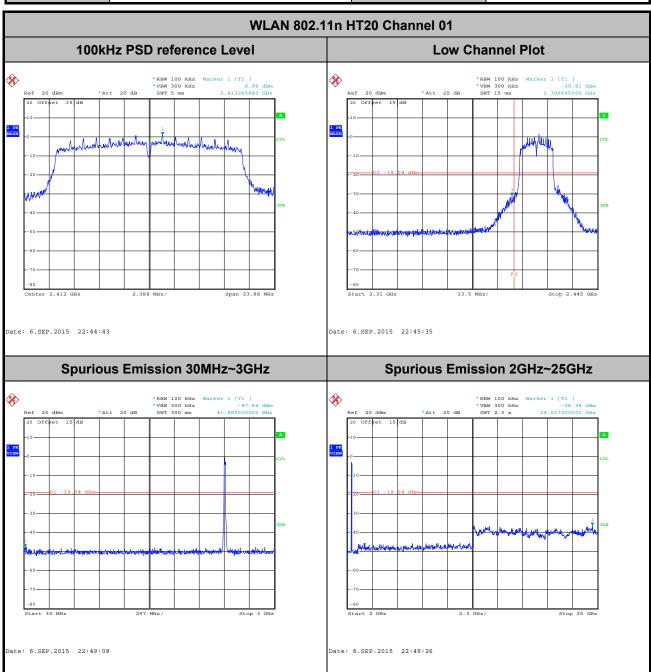
 Test Band :
 2.4GHz High
 Relative Humidity :
 50~53%

 Test Channel :
 11
 Test Engineer :
 Mygai Mo



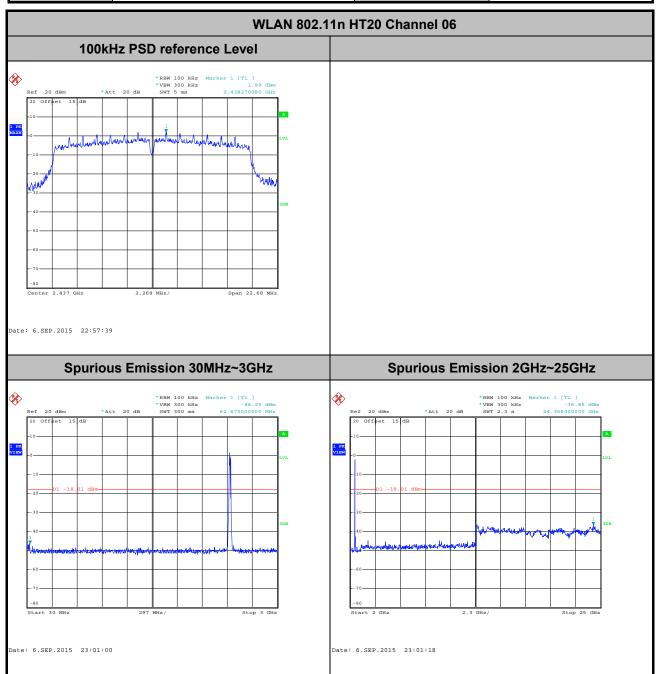
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Test Mode :	802.11n HT20	Temperature :	24~26℃
Test Band :	2.4GHz Low	Relative Humidity :	50~53%
Test Channel :	01	Test Engineer :	Mygai Mo



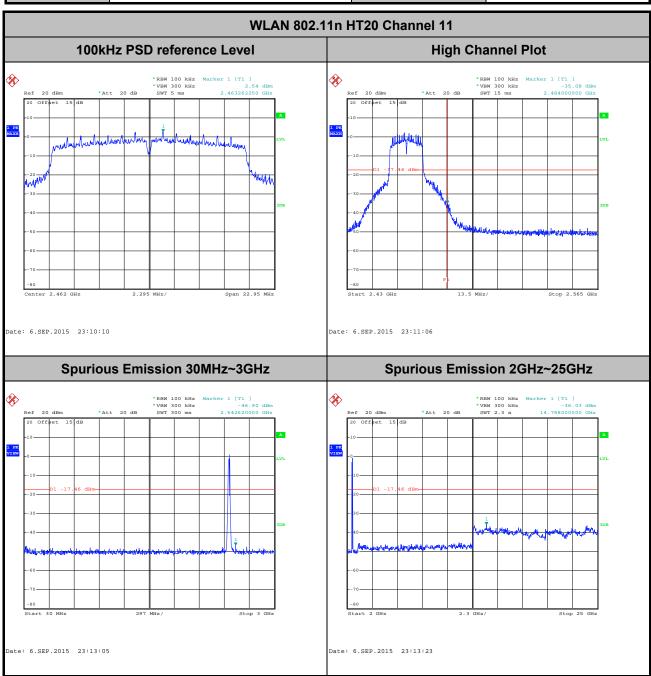
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Test Mode :	802.11n HT20	Temperature :	24~26℃
Test Band :	2.4GHz Mid	Relative Humidity :	50~53%
Test Channel :	06	Test Engineer :	Mygai Mo



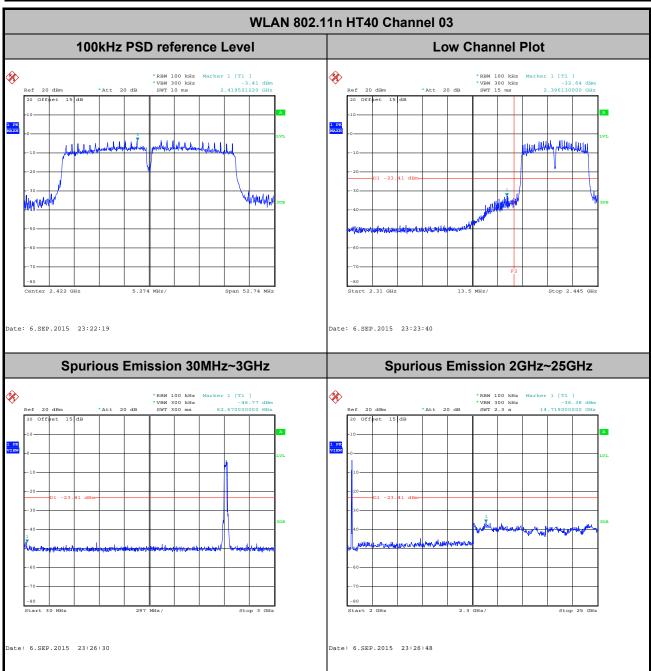
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Test Mode :	802.11n HT20	Temperature :	24~26℃
Test Band :	2.4GHz High	Relative Humidity :	50~53%
Test Channel :	11	Test Engineer :	Mygai Mo



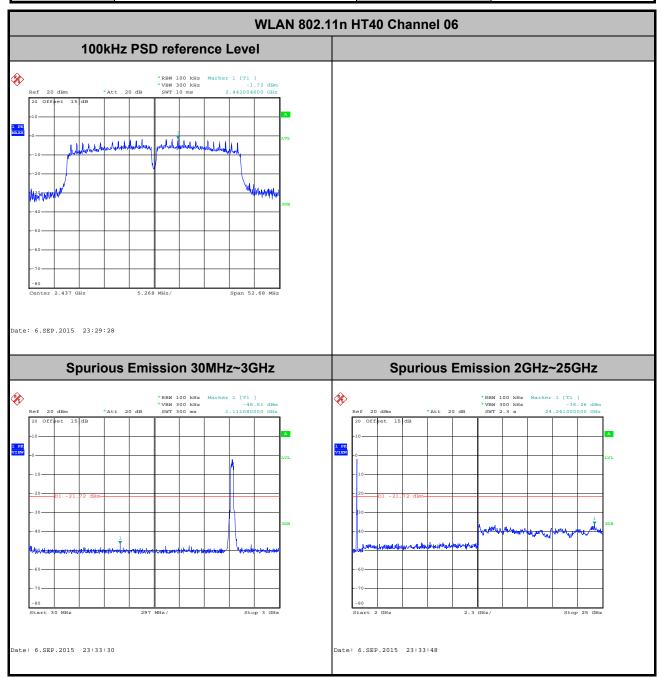
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Test Mode :	802.11n HT40	Temperature :	24~26℃
Test Band :	2.4GHz Low	Relative Humidity :	50~53%
Test Channel :	03	Test Engineer :	Mygai Mo



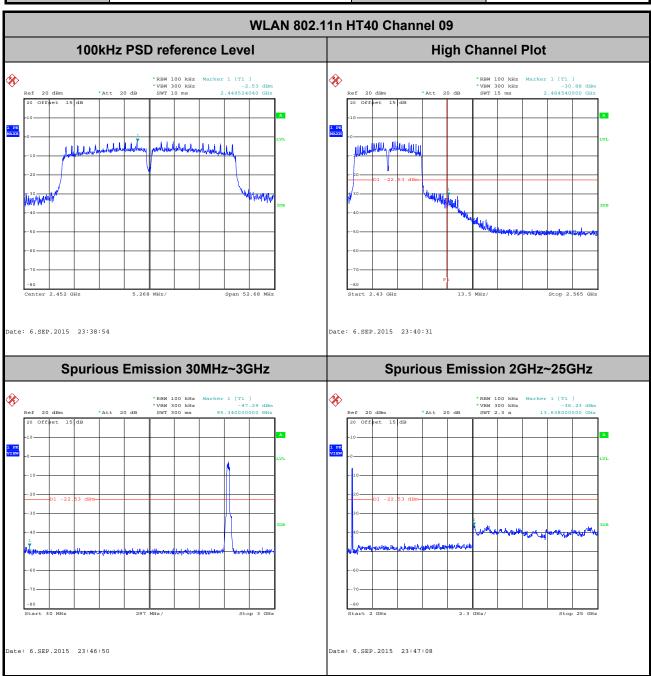
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Test Mode :	802.11n HT40	Temperature :	24~26 ℃
Test Band :	2.4GHz Mid	Relative Humidity :	50~53%
Test Channel :	06	Test Engineer :	Mygai Mo



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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 :	Mygai Mo



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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 v03r03.
- 2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
- 3. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
- The EUT was set 3 meters from the interference receiving antenna, which was mounted on the 4. 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 \geq 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	97.21	1.39	0.72	1kHz
2.4GHz 802.11n HT20	97.37	1.30	0.77	1kHz
2.4GHz 802.11n HT40	95.21	0.66	1.52	3kHz

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3.5.4 Test Setup

For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz

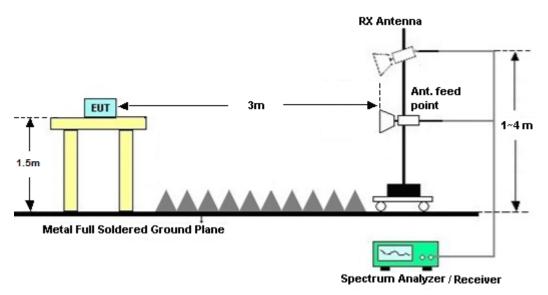


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For radiated emissions above 1GHz



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

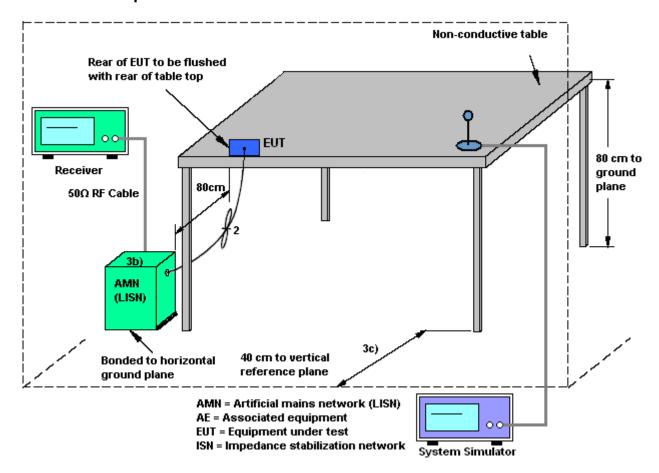
- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room, and it was kept at least 80 centimeters from any other grounded conducting surface.
- 2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support units are connecting to 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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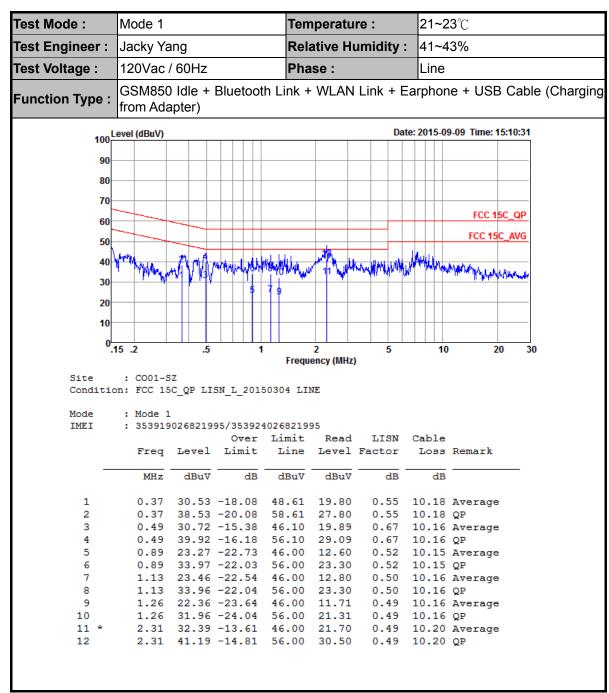
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3.6.4 Test Setup



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3.6.5 Test Result of AC Conducted Emission



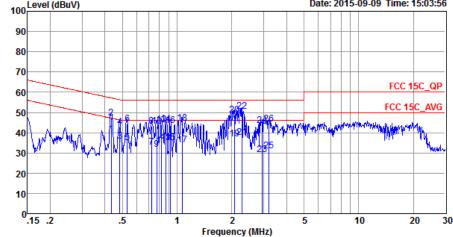
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Test Mode :	Mode 1	Temperature :	21~23 ℃
Test Engineer :	Jacky Yang	Relative Humidity :	41~43%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	GSM850 Idle + Bluetooth Li	nk + WLAN Link + Ea	rphone + USB Cable (Charging

from Adapter)

Date: 2015-09-09 Time: 15:03:56



Site : CO01-SZ

Condition: FCC 15C_QP LISN_N_20150304 NEUTRAL

Mode : Mode 1

IMEI : 353919026821995/353924026821995

IIILI	. 000011	0200213.	30/ 00032	10200213.	-			
			Over		Read	LISN	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBu∀	dB	dBu∀	dBu∀	dB	dB	
1	0.43	39.23	-7.97	47.20	28.50	0.57	10.16	Average
2	0.43	47.23	-9.97	57.20	36.50	0.57	10.16	QP
3	0.48	35.66	-10.61	46.27	24.90	0.60	10.16	Average
4	0.48	42.86	-13.41	56.27	32.10	0.60	10.16	QP
5	0.53	35.05	-10.95	46.00	24.30	0.60	10.15	Average
6	0.53	44.45	-11.55	56.00	33.70	0.60	10.15	QP
7	0.72	32.70	-13.30	46.00	22.00	0.55	10.15	Average
8	0.72	43.30	-12.70	56.00	32.60	0.55	10.15	QP
9	0.77	31.60	-14.40	46.00	20.90	0.55	10.15	Average
10	0.77	43.30	-12.70	56.00	32.60	0.55	10.15	QP
11	0.82	33.50	-12.50	46.00	22.80	0.55	10.15	Average
12	0.82	43.80	-12.20	56.00	33.10	0.55	10.15	QP
13	0.87	35.11	-10.89	46.00	24.40	0.56	10.15	Average
14	0.87	44.21	-11.79	56.00	33.50	0.56	10.15	QP
15	0.92	35.01	-10.99	46.00	24.30	0.56	10.15	Average
16	0.92	43.41	-12.59	56.00	32.70	0.56	10.15	QP
17	1.07	34.11	-11.89	46.00	23.40	0.56	10.15	Average
18	1.07	44.81	-11.19	56.00	34.10	0.56	10.15	QP
19	2.08	37.06	-8.94	46.00	26.30	0.57	10.19	Average
20	2.08	48.86	-7.14	56.00	38.10	0.57	10.19	QP
21	2.27	37.68	-8.32	46.00	26.90	0.58	10.20	Average
22 *	2.27	50.38	-5.62	56.00	39.60	0.58	10.20	QP
23	2.93	29.21	-16.79	46.00	18.40	0.60	10.21	Average
24	2.93	43.51	-12.49	56.00	32.70	0.60	10.21	QP
25	3.19	31.03	-14.97	46.00	20.21	0.61	10.21	Average
26	3.19	44.43	-11.57	56.00	33.61	0.61	10.21	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	FSP30	101400	9kHz~30GHz	Jan. 28, 2015	Sep. 06, 2015	Jan. 27, 2016	Conducted (TH01-SZ)
Pulse Power Senor	Anritsu	MA2411B	1207253	30MHz~40GHz	Jan. 28, 2015	Sep. 06, 2015	Jan. 27, 2016	Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1218010	50MHz Bandwidth	Jan. 28, 2015	Sep. 06, 2015	Jan. 27, 2016	Conducted (TH01-SZ)
EMI Test Receiver	R&S	ESR7	101404	9kHz~7GHz; Max 30dBm	Oct. 14, 2014	Sep. 09, 2015	Oct. 13, 2015	Radiation (03CH02-SZ)
Spectrum Analyzer	R&S	FSV40	101041	10kHz~40GHz; Max 30dBm	Oct. 15, 2014	Sep. 09, 2015	Oct. 14, 2015	Radiation (03CH02-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	May 06, 2015	Sep. 09, 2015	May 05, 2016	Radiation (03CH02-SZ)
Bilog Antenna	TeseQ	CBL6112D	23188	30MHz~2GHz	Nov. 07, 2014	Sep. 09, 2015	Nov. 06, 2015	Radiation (03CH02-SZ)
Double Ridge Horn Antenna	SCHWARZBE CK	BBHA 9120D	9120D-1285	1GHz~18GHz	Jan. 20, 2015	Sep. 09, 2015	Jan. 19, 2016	Radiation (03CH02-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18GHz~40GHz	Sep. 03, 2015	Sep. 09, 2015	Sep. 02, 2016	Radiation (03CH02-SZ)
Amplifier	ADVANTEST	BB525C	E9007003	9kHz~3000MHz / 30 dB	Jan. 28, 2015	Sep. 09, 2015	Jan. 27, 2016	Radiation (03CH02-SZ)
Amplifier	Agilent	8449B	3008A01023	1GHz~26.5GHz	Oct. 29, 2014	Sep. 09, 2015	Oct. 28, 2015	Radiation (03CH02-SZ)
AC Power Source	Chroma	61601	6160100024 70	N/A	NCR	Sep. 09, 2015	NCR	Radiation (03CH02-SZ)
Turn Table	Chaintek	T-200	N/A	0~360 degree	NCR	Sep. 09, 2015	NCR	Radiation (03CH02-SZ)
Antenna Mast	Chaintek	MBS-400	N/A	1 m~4 m	NCR	Sep. 09, 2015	NCR	Radiation (03CH02-SZ)
EMI Receiver	R&S	ESCI7	100724	9kHz~3GHz;	Jan. 28, 2015	Sep. 09, 2015	Jan. 27, 2016	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2SH	103892	9kHz~30MHz	Feb. 02, 2015	Sep. 09, 2015	Feb. 01, 2016	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	MessTec	AN3016	16850	9kHz~30MHz	Feb. 02, 2015	Sep. 09, 2015	Feb. 01, 2016	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	6160200008 91	100Vac~250Vac	Sep. 29, 2014	Sep. 09, 2015	Sep. 28, 2015	Conduction (CO01-SZ)
Pulse Limiter	COM-POWER	LIT-153 Transient Limiter	53139	150kHz~30MHz	Oct. 24, 2014	Sep. 09, 2015	Oct. 23, 2015	Conduction (CO01-SZ)

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Uncertainty of Evaluation 5

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

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

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

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

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Appendix A. Conducted test results

SPORTON INTERNATIONAL (SHENZHEN) INC.

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A1 - DTS Part

Test Engineer:	Mygai Mo	Temperature:	24~26	°C
Test Date:	2015/9/6	Relative Humidity:	50~53	%

TEST RESULTS DATA 6dB and 99% Occupied Bandwidth

					2.4GHz Band	d		
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Occupied BW (MHz)	6dB BW (MHz)	(MHz) Limit (MHz)	
11b	1Mbps	1	1	2412	12.90	10.04	0.50	Pass
11b	1Mbps	1	6	2437	13.10	9.56	0.50	Pass
11b	1Mbps	1	11	2462	14.00	10.04	0.50	Pass
11g	6Mbps	1	1	2412	17.55	15.12	0.50	Pass
11g	6Mbps	1	6	2437	17.60	15.12	0.50	Pass
11g	6Mbps	1	11	2462	18.25	15.12	0.50	Pass
HT20	MCS0	1	1	2412	18.30	15.92	0.50	Pass
HT20	MCS0	1	6	2437	18.60	15.12	0.50	Pass
HT20	MCS0	1	11	2462	18.75	15.30	0.50	Pass
HT40	MCS0	1	3	2422	36.30	35.16	0.50	Pass
HT40	MCS0	1	6	2437	36.60	35.12	0.50	Pass
HT40	MCS0	1	9	2452	36.50	35.12	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	16.09	30.00	1.50	17.59	36.00	Pass					
11b	1Mbps	1	6	2437	16.57	30.00	1.50	18.07	36.00	Pass					
11b	1Mbps	1	11	2462	16.99	30.00	1.50	18.49	36.00	Pass					
11g	6Mbps	1	1	2412	18.36	30.00	1.50	19.86	36.00	Pass					
11g	6Mbps	1	6	2437	18.41	30.00	1.50	19.91	36.00	Pass					
11g	6Mbps	1	11	2462	18.61	30.00	1.50	20.11	36.00	Pass					
HT20	MCS0	1	1	2412	18.37	30.00	1.50	19.87	36.00	Pass					
HT20	MCS0	1	6	2437	18.35	30.00	1.50	19.85	36.00	Pass					
HT20	MCS0	1	11	2462	18.58	30.00	1.50	20.08	36.00	Pass					
HT40	MCS0	1	3	2422	18.31	30.00	1.50	19.81	36.00	Pass					
HT40	MCS0	1	6	2437	18.36	30.00	1.50	19.86	36.00	Pass					
HT40	MCS0	1	9	2452	18.46	30.00	1.50	19.96	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	13.34										
11b	1Mbps	1	6	2437 0.00		14.11										
11b	1Mbps	1	11	2462	0.00	14.71										
11g	6Mbps	1	1	2412	0.12	11.19										
11g	6Mbps	1	6	2437	0.12	11.51										
11g	6Mbps	1	11	2462	0.12	12.61										
HT20	MCS0	1	1	2412	0.12	11.13										
HT20	MCS0	1	6	2437	0.12	11.50										
HT20	MCS0	1	11	2462	0.12	12.43										
HT40	MCS0	1	3	2422	0.21	10.10										
HT40	MCS0	1	6	2437	0.21	10.42										
HT40	MCS0	1	9	2452	0.21	10.71										

TEST RESULTS DATA Peak Power Density

					2.4GHz Band	1		
					2.4GHZ Dan			
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	-8.34	1.50	8.00	Pass
11b	1Mbps	1	6	2437	-9.75	1.50	8.00	Pass
11b	1Mbps	1	11	2462	-8.26	1.50	8.00	Pass
11g	6Mbps	1	1	2412	-13.06	1.50	8.00	Pass
11g	6Mbps	1	6	2437	-13.17	1.50	8.00	Pass
11g	6Mbps	1	11	2462	-11.99	1.50	8.00	Pass
HT20	MCS0	1	1	2412	-14.16	1.50	8.00	Pass
HT20	MCS0	1	6	2437	-13.17	1.50	8.00	Pass
HT20	MCS0	1	11	2462	-12.25	1.50	8.00	Pass
HT40	MCS0	1	3	2422	-17.62	1.50 8.00		Pass
HT40	MCS0	1	6	2437	-16.77	1.50	8.00	Pass
HT40	MCS0	1	9	2452	-17.54	1.50	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)	(dB _µ V)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		2389.61	47	-27	74	47.66	27.25	9.32	37.23	248	43	Р	Н
		2389.83	35.51	-18.49	54	36.17	27.25	9.32	37.23	248	43	Α	Н
000 446	*	2412	100.37	-	-	100.87	27.31	9.43	37.24	248	43	Р	Н
802.11b CH 01	*	2412	95.11	-	-	95.61	27.31	9.43	37.24	248	43	Α	Н
2412MHz		2389.52	49.82	-24.18	74	50.48	27.25	9.32	37.23	212	122	Р	V
2412141112		2389.83	38.73	-15.27	54	39.39	27.25	9.32	37.23	212	122	Α	V
	*	2412	102.89	-	1	103.39	27.31	9.43	37.24	212	122	Р	V
	*	2412	97.77	-	-	98.27	27.31	9.43	37.24	212	122	Α	V
		2382.18	43.18	-30.82	74	43.88	27.19	9.32	37.21	247	36	Р	Н
		2381.64	30.45	-23.55	54	31.15	27.19	9.32	37.21	247	36	Α	Н
	*	2437	100.33	-	-	100.75	27.42	9.43	37.27	247	36	Р	Н
	*	2437	95.17	-	-	95.59	27.42	9.43	37.27	247	36	Α	Н
		2492.44	44.93	-29.07	74	44.99	27.6	9.66	37.32	247	36	Р	Н
802.11b		2485.16	31.71	-22.29	54	31.92	27.54	9.55	37.3	247	36	Α	Н
CH 06 2437MHz		2388.39	45.32	-28.68	74	45.98	27.25	9.32	37.23	150	95	Р	V
2437 WII 12		2381.64	32.96	-21.04	54	33.66	27.19	9.32	37.21	150	95	Α	V
	*	2437	103.2	-	-	103.62	27.42	9.43	37.27	150	95	Р	V
	*	2437	97.86	-	-	98.28	27.42	9.43	37.27	150	95	Α	V
		2485.24	46.51	-27.49	74	46.72	27.54	9.55	37.3	150	95	Р	V
		2485.08	33.45	-20.55	54	33.66	27.54	9.55	37.3	150	95	Α	V

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	*	2462	101.89	-	-	102.15	27.48	9.55	37.29	241	32	Р	Н
	*	2462	96.53	-	-	96.79	27.48	9.55	37.29	241	32	Α	Н
		2483.56	46.26	-27.74	74	46.47	27.54	9.55	37.3	241	32	Р	Н
802.11b		2483.64	33.54	-20.46	54	33.75	27.54	9.55	37.3	241	32	Α	Н
CH 11 2462MHz	*	2462	103.09	-	-	103.35	27.48	9.55	37.29	204	110	Р	V
2402WITIZ	*	2462	97.81	-	-	98.07	27.48	9.55	37.29	204	110	Α	٧
		2483.84	47.74	-26.26	74	47.95	27.54	9.55	37.3	204	110	Р	٧
		2483.72	35	-19	54	35.21	27.54	9.55	37.3	204	110	Α	V
									•			-	

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Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

15C 2.4GHz 2400~2483.5MHz

WIFI 802.11b (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
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	45.09	-28.91	74	36.94	31.26	13.37	36.48	150	360	Р	Н
CH 01 2412MHz		4824	46.74	-27.26	74	38.59	31.26	13.37	36.48	150	360	Р	V
		4874	41.41	-32.59	74	33.02	31.36	13.48	36.45	150	360	Р	Н
802.11b		7311	44.49	-29.51	74	29.56	35.96	16.59	37.62	174	100	Р	Н
CH 06 2437MHz		4874	41.65	-32.35	74	33.26	31.36	13.48	36.45	150	360	Р	V
2437101112		7311	45.86	-28.14	74	30.93	35.96	16.59	37.62	174	100	Р	V
000 441-		4924	42.32	-31.68	74	33.69	31.46	13.59	36.42	150	360	Р	Н
802.11b CH 11		7386	46.57	-27.43	74	31.46	36.08	16.66	37.63	150	274	Р	Н
2462MHz		4924	43.91	-30.09	74	35.28	31.46	13.59	36.42	150	360	Р	V
2402111112		7386	47.64	-26.36	74	32.53	36.08	16.66	37.63	150	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)

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)
		2389.56	60.03	-13.97	74	60.69	27.25	9.32	37.23	250	50	Р	Н
		2389.92	43.26	-10.74	54	43.92	27.25	9.32	37.23	250	50	Α	Н
000 44 =	*	2412	101.73	-	-	102.23	27.31	9.43	37.24	250	50	Р	Н
802.11g CH 01	*	2412	91	-	1	91.5	27.31	9.43	37.24	250	50	Α	Н
2412MHz		2389.83	63.47	-10.53	74	64.13	27.25	9.32	37.23	224	96	Р	V
2412101112		2389.92	46.49	-7.51	54	47.15	27.25	9.32	37.23	224	96	Α	V
	*	2412	104.79	-	1	105.29	27.31	9.43	37.24	224	96	Р	V
	*	2412	94.69	-	-	95.19	27.31	9.43	37.24	224	96	Α	٧
		2363.01	43.85	-30.15	74	44.71	27.13	9.2	37.19	233	36	Р	Τ
		2389.92	31.08	-22.92	54	31.74	27.25	9.32	37.23	233	36	Α	Н
	*	2437	101.35	-	-	101.77	27.42	9.43	37.27	233	36	Р	Н
	*	2437	91.03	-	-	91.45	27.42	9.43	37.27	233	36	Α	Н
		2484.12	48.37	-25.63	74	48.58	27.54	9.55	37.3	233	36	Р	Н
802.11g		2484.8	34.85	-19.15	54	35.06	27.54	9.55	37.3	233	36	Α	Н
CH 06 2437MHz		2387.85	48.7	-25.3	74	49.36	27.25	9.32	37.23	218	96	Р	٧
2437 WITIZ		2389.92	35.49	-18.51	54	36.15	27.25	9.32	37.23	218	96	Α	٧
	*	2437	105.06	-	-	105.48	27.42	9.43	37.27	218	96	Р	٧
	*	2437	94.33	-	-	94.75	27.42	9.43	37.27	218	96	Α	V
		2493.12	49.64	-24.36	74	49.7	27.6	9.66	37.32	218	96	Р	٧
		2483.8	36.4	-17.6	54	36.61	27.54	9.55	37.3	218	96	Α	V

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	*	2462	102.84	-	-	103.1	27.48	9.55	37.29	231	43	Р	Н
	*	2462	92.34	-	-	92.6	27.48	9.55	37.29	231	43	Α	Н
		2483.92	66.31	-7.69	74	66.52	27.54	9.55	37.3	231	43	Р	Н
802.11g		2483.52	43.44	-10.56	54	43.65	27.54	9.55	37.3	231	43	Α	Н
CH 11 2462MHz	*	2462	104.36	-	-	104.62	27.48	9.55	37.29	193	105	Р	٧
2402IVII IZ	*	2462	94.07	-	-	94.33	27.48	9.55	37.29	193	105	Α	٧
		2484.16	66.12	-7.88	74	66.33	27.54	9.55	37.3	193	105	Р	٧
		2483.52	44.89	-9.11	54	45.1	27.54	9.55	37.3	193	105	Α	٧

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Remark

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 (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	42.49	-31.51	74	34.34	31.26	13.37	36.48	150	360	Р	Н
CH 01 2412MHz		4824	42.52	-31.48	74	34.37	31.26	13.37	36.48	150	360	Р	V
		4874	41.45	-32.55	74	33.06	31.36	13.48	36.45	150	360	Р	Н
802.11g		7311	47.04	-26.96	74	32.11	35.96	16.59	37.62	174	100	Р	Н
CH 06 2437MHz		4874	42.39	-31.61	74	34	31.36	13.48	36.45	150	360	Р	V
2457191112		7311	47.61	-26.39	74	32.68	35.96	16.59	37.62	174	100	Р	V
000 44		4924	41.84	-32.16	74	33.21	31.46	13.59	36.42	150	360	Р	Н
802.11g CH 11		7386	47.69	-26.31	74	32.58	36.08	16.66	37.63	150	274	Р	Н
2462MHz		4924	40.82	-33.18	74	32.19	31.46	13.59	36.42	150	360	Р	V
2402141112		7386	46.96	-27.04	74	31.85	36.08	16.66	37.63	150	274	Р	V

Remark

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I. No other spurious found.

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

15C 2.4GHz 2400~2483.5MHz WIFI 802.11n HT20 (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)
		2389.38	62.06	-11.94	74	62.72	27.25	9.32	37.23	191	31	Р	Н
		2389.92	44.08	-9.92	54	44.74	27.25	9.32	37.23	191	31	Α	Н
802.11n	*	2412	100.6	-	-	101.1	27.31	9.43	37.24	191	31	Р	Н
HT20	*	2412	89.89	-	-	90.39	27.31	9.43	37.24	191	31	Α	Н
CH 01		2389.83	64.83	-9.17	74	65.49	27.25	9.32	37.23	198	79	Р	٧
2412MHz		2389.92	46.71	-7.29	54	47.37	27.25	9.32	37.23	198	79	Α	٧
	*	2412	104.82	-	-	105.32	27.31	9.43	37.24	198	79	Р	٧
	*	2412	94.54	-	-	95.04	27.31	9.43	37.24	198	79	Α	٧
		2380.2	45.33	-28.67	74	46.03	27.19	9.32	37.21	165	38	Р	Н
		2389.92	32.9	-21.1	54	33.56	27.25	9.32	37.23	165	38	Α	Н
	*	2437	102.83	-	-	103.25	27.42	9.43	37.27	165	38	Р	Н
	*	2437	91.6	-	-	92.02	27.42	9.43	37.27	165	38	Α	Н
802.11n		2487.44	46.36	-27.64	74	46.57	27.54	9.55	37.3	165	38	Р	Н
HT20		2483.96	33.53	-20.47	54	33.74	27.54	9.55	37.3	165	38	Α	Н
CH 06		2382.45	49.18	-24.82	74	49.88	27.19	9.32	37.21	193	105	Р	٧
2437MHz		2387.31	35.76	-18.24	54	36.42	27.25	9.32	37.23	193	105	Α	٧
	*	2437	104.16	-	-	104.58	27.42	9.43	37.27	193	105	Р	V
	*	2437	93.56	-	-	93.98	27.42	9.43	37.27	193	105	Α	V
		2485.8	51.18	-22.82	74	51.39	27.54	9.55	37.3	193	105	Р	٧
		2484.04	36.94	-17.06	54	37.15	27.54	9.55	37.3	193	105	Α	V

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	*	2462	102.58	-	-	102.84	27.48	9.55	37.29	150	43	Р	Н
	*	2462	91.49	-	-	91.75	27.48	9.55	37.29	150	43	Α	Н
802.11n		2483.56	66.72	-7.28	74	66.93	27.54	9.55	37.3	150	43	Р	Τ
HT20		2483.52	44.83	-9.17	54	45.04	27.54	9.55	37.3	150	43	Α	Ι
CH 11	*	2462	104.71	-	1	104.97	27.48	9.55	37.29	232	110	Р	٧
2462MHz	*	2462	94.18	-	1	94.44	27.48	9.55	37.29	232	110	Α	>
		2484.08	69.92	-4.08	74	70.13	27.54	9.55	37.3	232	110	Р	٧
		2483.52	47.65	-6.35	54	47.86	27.54	9.55	37.3	232	110	Α	٧

Remark

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[.] No other spurious found.

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

15C 2.4GHz 2400~2483.5MHz

WIFI 802.11n 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	41.58	-32.42	74	58.62	35.03	6.54	58.61	100	0	Р	Н
HT20													
CH 01		4004	00.05	04.75	7.4	50.00	05.00	0.54	50.04	400			.,
2412MHz		4824	39.25	-34.75	74	56.29	35.03	6.54	58.61	100	0	Р	V
802.11n		4874	40	-34	74	31.61	31.36	13.48	36.45	150	360	Р	Н
HT20		7311	45.7	-28.3	74	30.77	35.96	16.59	37.62	174	100	Р	Н
CH 06		4874	40.69	-33.31	74	32.3	31.36	13.48	36.45	150	360	Р	V
2437MHz		7311	47.45	-26.55	74	32.52	35.96	16.59	37.62	174	100	Р	V
802.11n		4924	41.24	-32.76	74	32.61	31.46	13.59	36.42	150	360	Р	Н
HT20		7386	46.87	-27.13	74	31.76	36.08	16.66	37.63	150	274	Р	Н
CH 11		4924	42.82	-31.18	74	34.19	31.46	13.59	36.42	150	360	Р	٧
2462MHz		7386	47.38	-26.62	74	32.27	36.08	16.66	37.63	150	274	Р	٧
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Remark

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^{1.} No other spurious found.

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

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

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant		Peak	Pol.
Ant.		/ B411 \	(ID)(()	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	(1100
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	
		2389.38	65.35	-8.65	74	66.01	27.25	9.32	37.23	165	118		Η
		2389.38	45.7	-8.3	54	46.36	27.25	9.32	37.23	165	118	Α	Н
	*	2422	97.29	-	-	97.75	27.37	9.43	37.26	165	118	Р	Н
	*	2422	86.52	-	-	86.98	27.37	9.43	37.26	165	118	Α	Н
802.11n		2495.76	52.19	-21.81	74	52.25	27.6	9.66	37.32	165	118	Р	Н
HT40		2485.12	34.09	-19.91	54	34.3	27.54	9.55	37.3	165	118	Α	Н
CH 03		2389.47	69.55	-4.45	74	70.21	27.25	9.32	37.23	214	79	Р	٧
2422MHz		2389.47	49.9	-4.1	54	50.56	27.25	9.32	37.23	214	79	Α	٧
	*	2422	100.39	-	-	100.85	27.37	9.43	37.26	214	79	Р	V
	*	2422	89.84	-	-	90.3	27.37	9.43	37.26	214	79	Α	٧
		2495.32	54.87	-19.13	74	54.93	27.6	9.66	37.32	214	79	Р	٧
		2483.96	36.88	-17.12	54	37.09	27.54	9.55	37.3	214	79	Α	V
		2389.29	59.01	-14.99	74	59.67	27.25	9.32	37.23	240	134	Р	Н
		2389.92	40.15	-13.85	54	40.81	27.25	9.32	37.23	240	134	Α	Н
	*	2437	98.95	-	-	99.37	27.42	9.43	37.27	240	134	Р	Н
	*	2437	89.15	-	-	89.57	27.42	9.43	37.27	240	134	Α	Н
802.11n		2483.52	60.65	-13.35	74	60.86	27.54	9.55	37.3	240	134	Р	Н
HT40		2483.52	40.05	-13.95	54	40.26	27.54	9.55	37.3	240	134	Α	Н
CH 06		2388.3	62.97	-11.03	74	63.63	27.25	9.32	37.23	198	101	Р	٧
2437MHz		2389.92	44.07	-9.93	54	44.73	27.25	9.32	37.23	198	101	Α	٧
	*	2437	102.85	-	-	103.27	27.42	9.43	37.27	198	101	Р	٧
	*	2437	91.85	-	-	92.27	27.42	9.43	37.27	198	101	Α	٧
		2486.32	62.66	-11.34	74	62.87	27.54	9.55	37.3	198	101	Р	V
		2483.56	43.44	-10.56	54	43.65	27.54	9.55	37.3	198	101	Α	٧

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		2387.67	47.65	-26.35	74	48.31	27.25	9.32	37.23	215	125	Р	Н
		2388.66	32.51	-21.49	54	33.17	27.25	9.32	37.23	215	125	Α	Н
	*	2452	97.91	-	-	98.21	27.42	9.55	37.27	215	125	Р	Н
	*	2452	87.49	-	-	87.79	27.42	9.55	37.27	215	125	Α	Н
802.11n		2483.6	68.34	-5.66	74	68.55	27.54	9.55	37.3	215	125	Р	Н
HT40		2484.28	44.39	-9.61	54	44.6	27.54	9.55	37.3	215	125	Α	Н
CH 09		2387.76	50.48	-23.52	74	51.14	27.25	9.32	37.23	186	84	Р	٧
2452MHz		2387.85	34.35	-19.65	54	35.01	27.25	9.32	37.23	186	84	Α	٧
	*	2454.859	99.7	-	-	99.96	27.48	9.55	37.29	186	84	Р	٧
	*	2449.515	89.07	-	-	89.37	27.42	9.55	37.27	186	84	Α	٧
		2483.56	70.98	-3.02	74	71.19	27.54	9.55	37.3	186	84	Р	٧
		2483.52	47.04	-6.96	54	47.25	27.54	9.55	37.3	186	84	Α	٧

Remark ...

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^{1.} No other spurious found.

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

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

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	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	40.9	-33.1	74	32.71	31.29	13.37	36.47	150	360	Р	Н
HT40		7266	46.53	-27.47	74	31.69	35.91	16.55	37.62	200	360	Р	Н
CH 03		4844	41.78	-32.22	74	33.59	31.29	13.37	36.47	150	360	Р	٧
2422MHz		7266	46.62	-27.38	74	31.78	35.91	16.55	37.62	200	360	Р	٧
802.11n		4874	41.56	-32.44	74	33.17	31.36	13.48	36.45	150	360	Р	Н
HT40		7311	48.29	-25.71	74	33.36	35.96	16.59	37.62	150	360	Р	Н
CH 06		4874	39.92	-34.08	74	31.53	31.36	13.48	36.45	150	360	Р	٧
2437MHz		7311	46.48	-27.52	74	31.55	35.96	16.59	37.62	150	360	Р	٧
802.11n		4904	40.67	-33.33	74	32.08	31.43	13.59	36.43	150	360	Р	Н
HT40		7356	46.46	-27.54	74	31.44	36.03	16.62	37.63	150	360	Р	Н
CH 09		4904	41.37	-32.63	74	32.78	31.43	13.59	36.43	150	360	Р	٧
2452MHz		7356	47.99	-26.01	74	32.97	36.03	16.62	37.63	150	360	Р	V

Remark

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[.] No other spurious found.

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

15C Emission below 1GHz

2.4GHz WIFI 802.11n HT40 (LF)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		112.45	34.81	-8.69	43.5	50.7	12.61	2.01	30.51	191	286	Р	Н
		172.59	26.63	-16.87	43.5	42.98	11.52	2.58	30.45	ı	ı	Р	Н
		343.31	19.28	-26.72	46	31.22	14.79	3.48	30.21	-	-	Р	Н
		558.65	19.32	-26.68	46	26.01	18.73	4.42	29.84	1	ı	Р	Н
2.4GHz		774.96	21.69	-24.31	46	25.28	20.6	5.29	29.48	1	ı	Р	I
802.11n		876.81	23.56	-22.44	46	25.38	21.88	5.58	29.28	-	-	Р	Н
HT40		108.57	36.07	-7.43	43.5	52.1	12.47	2.01	30.51	185	316	Р	٧
LF		187.14	14.54	-28.96	43.5	31.58	10.81	2.58	30.43	-	-	Р	V
		366.59	12.71	-33.29	46	24.11	15.29	3.48	30.17	-	-	Р	٧
		547.01	18.66	-27.34	46	25.46	18.64	4.42	29.86	-	-	Р	٧
		687.66	20.19	-25.81	46	25.18	19.8	4.88	29.67	-	-	Р	٧
		894.27	23.45	-22.55	46	25.19	21.75	5.76	29.25	-	-	Р	٧

Remark

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^{1.} No other spurious found.

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

Note symbol

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

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

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dB _µ V)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	Р	Н
CH 01													
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	Α	Н

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

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

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

For Peak Limit @ 2390MHz:

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

For Average Limit @ 2390MHz:

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

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