FCC RF Test Report

APPLICANT : CT Asia

EQUIPMENT: Mobile Phone

BRAND NAME : BLU

MODEL NAME : Dash C Music

FCC ID : YHLBLUDCMUSIC

STANDARD : FCC Part 15 Subpart C §15.247

CLASSIFICATION : (DTS) Digital Transmission System

The product was received on Sep. 19, 2014 and testing was completed on Oct. 28, 2014. 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.

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

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Report Version

Testing Laboratory

: Rev. 01

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TEL: 86-755- 3320-2398 FCC ID: YHLBLUDCMUSIC Report No. : FR491907B

REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE	
FR491907B	Rev. 01	Initial issue of report	Oct. 28, 2014	

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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		-		
		Conducted Band Edges		.00 ID	Pass	-
3.4	15.247(d)	Conducted Spurious Emission	- ≤ 20dBc	Pass	-	
3.5	4E 247(d)	Radiated Band Edges and	15.209(a) &	Pass	Under limit	
3.5	15.247(d)	Radiated Spurious Emission	15.247(d)	Pass	1.37 dB at 2388.390 MHz	
3.6	15.207	AC Conducted Emission	Conducted Emission 15.207(a) Pass		Under limit 12.75 dB at 0.550 MHz	
3.7	15.203 & 15.247(b)	Antenna Requirement	N/A	Pass	-	

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General Description 1

1.1 Applicant

CT Asia

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

1.2 Manufacturer

Zechin Communications Co.,Ltd.

Unit804, 8th Floor Desay Tech Building Gaoxin Road South, Nanshan District Shenzhen, China

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1.3 Product Feature of Equipment Under Test

Product Feature							
Equipment	Mobile Phone						
Brand Name	BLU						
Model Name	Dash C Music						
FCC ID	YHLBLUDCMUSIC						
	GSM/GPRS/EDGE(Downlink only)/WCDMA/HSPA/						
CIT comparts Dedice emplication	HSPA+(Downlink Only)/						
EUT supports Radios application	WLAN 2.4GHz 802.11b/g/n HT20/HT40						
	Bluetooth v2.1 + EDR						
HW Version	S2115-MB-V1.0						
SW Version	BLU_D390u_V01_GENERIC						
EUT Stage	Identical Prototype						

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

1.4 Product Specification subjective to this standard

Product Specific	ation subjective to this standard
Tx/Rx Channel Frequency Range	802.11b/g/n : 2412 MHz ~ 2462 MHz
	802.11b : 16.53 dBm (0.0450 W)
Maximum (Peak) Output Power to	802.11g : 20.97 dBm (0.1250 W)
Antenna	802.11n HT20 : 20.84 dBm (0.1213 W)
	802.11n HT40 : 21.95 dBm (0.1567 W)
Antenna Type	802.11b/g/n : PIFA Antenna with gain 1.6 dBi
Type of Medulation	802.11b: DSSS (DBPSK / DQPSK / CCK)
Type of Modulation	802.11g/n: OFDM (BPSK / QPSK / 16QAM / 64QAM)

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1.5 Modification of EUT

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

1.6 Testing Location

Test Site	SPORTON INTERNATION	ONAL (KUNSHAN) INC.				
	No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P.R.C.					
Test Site Location	TEL: +86-0512-5790-0158					
	FAX: +86-0512-5790-0958					
Toot Site No	Sporton	FCC Registration No.				
Test Site No.	03CH01-KS	CO01-KS	149928			

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Test Site	SPORTON INTERNATIONAL (SHENZHEN) INC					
Test Site Location	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 No.	FCC Registration No.				
Test Site NO.	TH01-SZ	831040				

1.7 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15 Subpart C §15.247
- FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r02
- ANSI C63.4-2003

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
2400-2483.5 MHz	3	2422	9	2452
2400-2403.5 IVITZ	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)									
Po	wer vs. Chan	inel		Power	vs. Data Rate					
Channel	Frequency (MHz)	Data Rate 1Mbps	Channel	2Mbps	5.5Mbps	11Mbps				
CH 01	2412 MHz	16.26								
CH 06	2437 MHz	16.49	CH 11	16.51	16.39	16.49				
CH 11	2462 MHz	<mark>16.53</mark>								

	2.4GHz 802.11g RF Output Power (dBm)											
Po	wer vs. Chan	nel				Power vs.	Data Rate					
Channel	Frequency	Data Rate	Channel	9Mbps	12Mbps	18Mbps	24Mbps	36Mbps	48Mbps	54Mbps		
	(MHz)	6Mbps							·			
CH 01	2412 MHz	20.67										
CH 06	2437 MHz	20.84	CH 11	20.85	20.68	20.54	20.86	20.65	20.62	20.75		
CH 11	2462 MHz	20.97										

	2.4GHz 802.11n HT20 RF Output Power (dBm)										
Po	wer vs. Chan	nel				Power vs. I	MCS Index				
Channel	Frequency	MCS Index	Channel	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	
	(MHz)	MCS0									
CH 01	2412 MHz	20.38									
CH 06	2437 MHz	20.80	CH 11	20.30	20.09	20.10	19.91	19.89	19.81	19.73	
CH 11	2462 MHz	<mark>20.84</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	21.78										
CH 06	2437 MHz	21.92	CH 09	21.12	21.09	20.84	21.15	21.09	21.18	21.13		
CH 09	2452 MHz	<mark>21.95</mark>										

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2.3 Test Mode

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

	Test Cases								
	Test Items	Mode	Data Rate	Test Channel					
		802.11b	1 Mbps	1/6/11					
	6dB BW	802.11g	6 Mbps	1/6/11					
	Power Spectral	802.11n HT20	MCS0	1/6/11					
	Density	802.11n HT40	MCS0	3/6/9					
		802.11b	1 Mbps	1/6/11					
	0 / 15	802.11g	6 Mbps	1/6/11					
	Output Power	802.11n HT20	MCS0	1/6/11					
Conducted TCs		802.11n HT40	MCS0	3/6/9					
ICS		802.11b	1 Mbps	1/11					
	Conducted Band	802.11g	6 Mbps	1/11					
	Edge	802.11n HT20	MCS0	1/11					
		802.11n HT40	MCS0	3/9					
		802.11b	1 Mbps	1/6/11					
	Conducted Spurious	802.11g	6 Mbps	1/6/11					
	Emission	802.11n HT20	MCS0	1/6/11					
		802.11n HT40	MCS0	3/6/9					
		802.11b	1 Mbps	1/11					
	Dedicted David Educ	802.11g	6 Mbps	1/11					
	Radiated Band Edge	802.11n HT20	MCS0	1/11					
Radiated		802.11n HT40	MCS0	3/9					
TCs		802.11b	1 Mbps	1/6/11					
	Radiated Spurious	802.11g	6 Mbps	1/6/11					
	Emission	802.11n HT20	MCS0	1/6/11					
		802.11n HT40	MCS0	3/6/9					
AC Conducted Emission	Mode 1 : GSM850 Idle Adapter)	+ Bluetooth Link + WLAN I	_ink + Earphone + Battery +	USB Cable (Charging from					

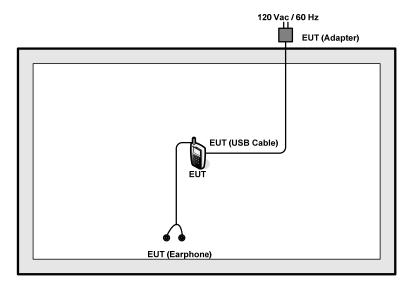
Remark: For Radiated Test Cases, The tests were performance with Adapter, Earphone, and USB Cable.

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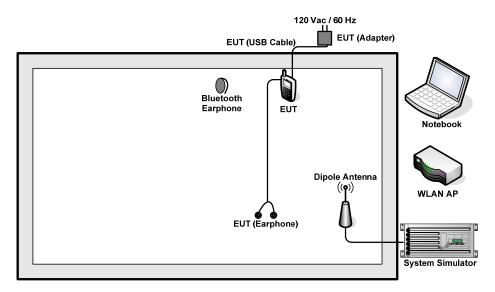
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2.4 Connection Diagram of Test System

<WLAN Tx Mode>



<AC Conducted Emission Mode>



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2.5 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMW 500	N/A	N/A	Unshielded, 1.8 m
						AC I/P:
2.	Notobook	otebook Lenovo G480 FCC DoC	FCC DaC	N 1/A	Unshielded, 1.2 m	
2.	Notebook		G460	FCC DOC	N/A	DC O/P:
						Shielded, 1.8 m
3.	WLAN AP	D-link	DIR-815	KA2IR815A1	N/A	Unshielded,1.8m
4.	Bluetooth Earphone	Nokia	BH-108	PYAHS-107W	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 7.5 dB and 10dB attenuator.

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).
=
$$7.5 + 10 = 17.5$$
 (dB)

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Test Result 3

3.1 6dB Bandwidth Measurement

3.1.1 Limit of 6dB Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

- The testing follows FCC KDB Publication No. 558074 DTS D01 Meas. Guidance v03r02. 1.
- 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.

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- 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



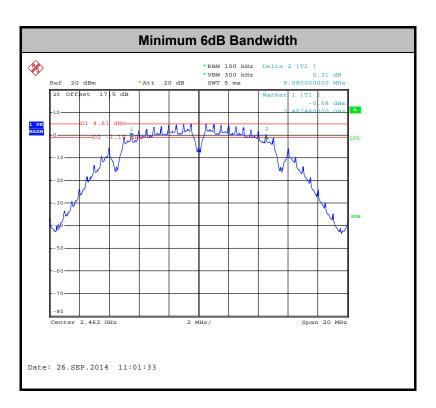
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3.1.5 Test Result of 6dB Bandwidth

Test Band :	2.4GHz	Temperature :	24~26℃
Test Engineer :	Fly Liang	Relative Humidity :	50~53%

Mod.	Data Rate	N _{TX}	Channel	Freq. (MHz)	6dB Bandwidth (MHz)	6dB Bandwidth Min. Limit (MHz)	Pass/Fail
11b	1Mbps	1	1	2412	9.52	0.5	Pass
11b	1Mbps	1	6	2437	9.52	0.5	Pass
11b	1Mbps	1	11	2462	9.08	0.5	Pass
11g	6Mbps	1	1	2412	16.32	0.5	Pass
11g	6Mbps	1	6	2437	16.32	0.5	Pass
11g	6Mbps	1	11	2462	16.32	0.5	Pass
HT20	MCS0	1	1	2412	17.60	0.5	Pass
HT20	MCS0	1	6	2437	17.60	0.5	Pass
HT20	MCS0	1	11	2462	17.60	0.5	Pass
HT40	MCS0	1	3	2422	36.04	0.5	Pass
HT40	MCS0	1	6	2437	36.08	0.5	Pass
HT40	MCS0	1	9	2452	36.08	0.5	Pass

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

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3.2 Output Power Measurement

3.2.1 Limit of Output Power

For systems using digital modulation in the 2400-2483.5MHz, the limit for peak output power is 30dBm. If transmitting Antenna of directional gain greater than 6dBi are used the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the Antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the Antenna exceeds 6dBi.

3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

- 1. The testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas. Guidance v03r02.
- 2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Measure the conducted output power and record the results in the test report.

3.2.4 Test Setup



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3.2.5 Test Result of Peak Output Power

Test Mode :	2.4GHz	Temperature :	24~26 ℃
Test Engineer :	Fly Liang	Relative Humidity :	50~53%

Mod.	Data Rate	N _{TX}	Channel	Freq. (MHz)	RF Output Power (dBm)	Power Limit (dBm)	DG (dBi)	Pass/Fail
11b	1Mbps	1	1	2412	16.26	30	1.60	Pass
11b	1Mbps	1	6	2437	16.49	30	1.60	Pass
11b	1Mbps	1	11	2462	16.53	30	1.60	Pass
11g	6Mbps	1	1	2412	20.67	30	1.60	Pass
11g	6Mbps	1	6	2437	20.84	30	1.60	Pass
11g	6Mbps	1	11	2462	20.97	30	1.60	Pass
HT20	MCS0	1	1	2412	20.38	30	1.60	Pass
HT20	MCS0	1	6	2437	20.80	30	1.60	Pass
HT20	MCS0	1	11	2462	20.84	30	1.60	Pass
HT40	MCS0	1	3	2422	21.78	30	1.60	Pass
HT40	MCS0	1	6	2437	21.92	30	1.60	Pass
HT40	MCS0	1	9	2452	21.95	30	1.60	Pass

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

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3.2.6 Test Result of Average output Power (Reporting Only)

Test Mode :	2.4GHz	Temperature :	24~26 ℃
Test Engineer :	Fly Liang	Relative Humidity :	50~53%

Mod.	Data Rate	N _{TX}	Channel	Freq. (MHz)	Duty Factor (dB)	Average Output Power (dBm)	Power Limit (dBm)	DG (dBi)	Pass/Fail
11b	1Mbps	1	1	2412	0.08	13.11	30	1.60	Pass
11b	1Mbps	1	6	2437	0.08	13.37	30	1.60	Pass
11b	1Mbps	1	11	2462	0.08	13.48	30	1.60	Pass
11g	6Mbps	1	1	2412	0.53	10.48	30	1.60	Pass
11g	6Mbps	1	6	2437	0.53	10.65	30	1.60	Pass
11g	6Mbps	1	11	2462	0.53	10.97	30	1.60	Pass
HT20	MCS0	1	1	2412	0.54	8.90	30	1.60	Pass
HT20	MCS0	1	6	2437	0.54	9.03	30	1.60	Pass
HT20	MCS0	1	11	2462	0.54	9.50	30	1.60	Pass
HT40	MCS0	1	3	2422	0.99	10.31	30	1.60	Pass
HT40	MCS0	1	6	2437	0.99	10.46	30	1.60	Pass
HT40	MCS0	1	9	2452	0.99	10.56	30	1.60	Pass

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

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3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

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

3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

- The testing follows Measurement Procedure 10.2 Method PKPSD of FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r02
- 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



3.3.5 Test Result of Power Spectral Density

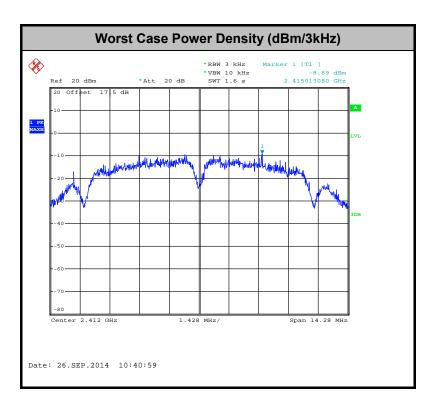
Test Mode :	2.4GHz	Temperature :	24~26 ℃
Test Engineer :	Fly Liang	Relative Humidity :	50~53%

Mod.	Data Rate	N _{TX}	Channel	Freq. (MHz)	Peak Power Density (dBm/3kHz)	Max. Limits (dBm/3kHz)	DG (dBi)	Pass/Fail
11b	1Mbps	1	1	2412	-8.89	8	1.60	Pass
11b	1Mbps	1	6	2437	-9.82	8	1.60	Pass
11b	1Mbps	1	11	2462	-9.74	8	1.60	Pass
11g	6Mbps	1	1	2412	-15.12	8	1.60	Pass
11g	6Mbps	1	6	2437	-14.78	8	1.60	Pass
11g	6Mbps	1	11	2462	-14.47	8	1.60	Pass
HT20	MCS0	1	1	2412	-14.16	8	1.60	Pass
HT20	MCS0	1	6	2437	-15.63	8	1.60	Pass
HT20	MCS0	1	11	2462	-15.24	8	1.60	Pass
HT40	MCS0	1	3	2422	-18.39	8	1.60	Pass
HT40	MCS0	1	6	2437	-17.86	8	1.60	Pass
HT40	MCS0	1	9	2452	-17.65	8	1.60	Pass

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

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3.4 Conducted Band Edges and Spurious Emission Measurement

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).

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3.4.2 **Measuring Instruments**

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

3.4.3 **Test Procedures**

- The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r02.
- 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d).
- 5. Measure and record the results in the test report.
- The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

3.4.4 Test Setup

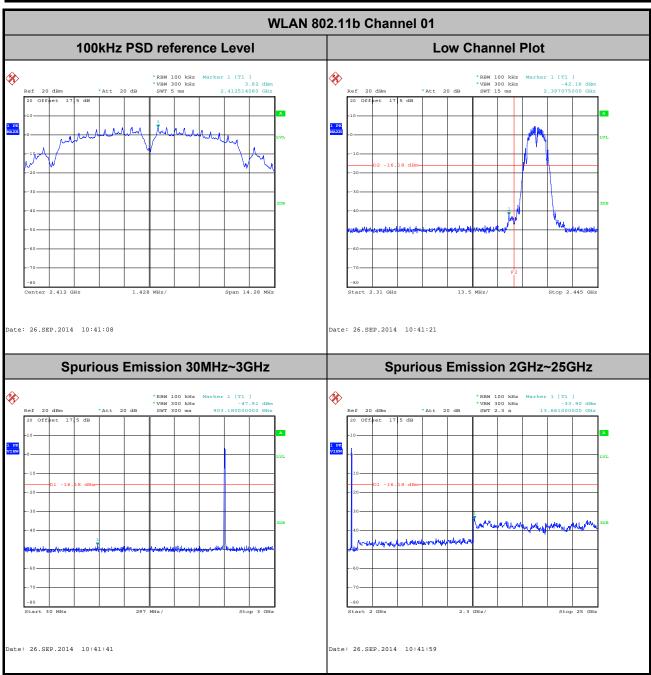


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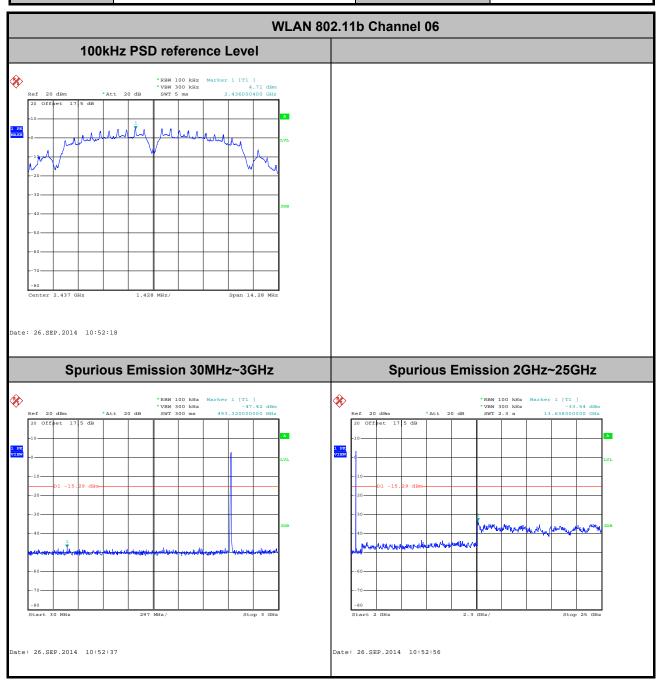
3.4.5 Test Result of Conducted Band Edges and Spurious Emission

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



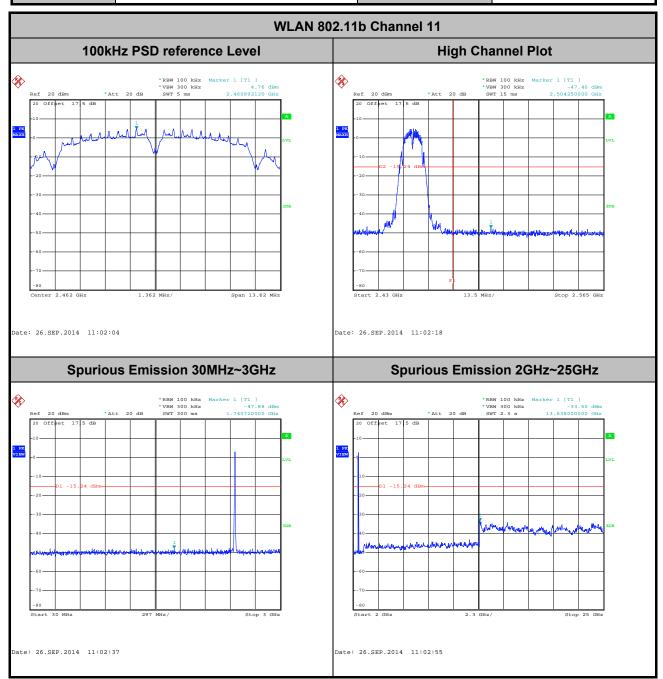
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Test Mode :	802.11b	Temperature :	24~26℃
Test Band :	2.4GHz Mid	Relative Humidity :	50~53%
Test Channel :	06	Test Engineer :	Fly Liang



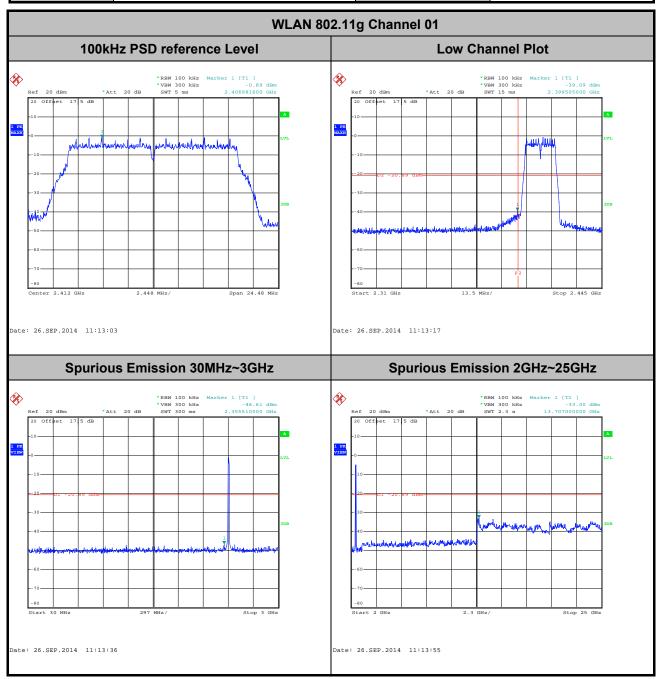
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Test Mode :	802.11b	Temperature :	24~26℃
Test Band :	2.4GHz High	Relative Humidity :	50~53%
Test Channel :	11	Test Engineer :	Fly Liang



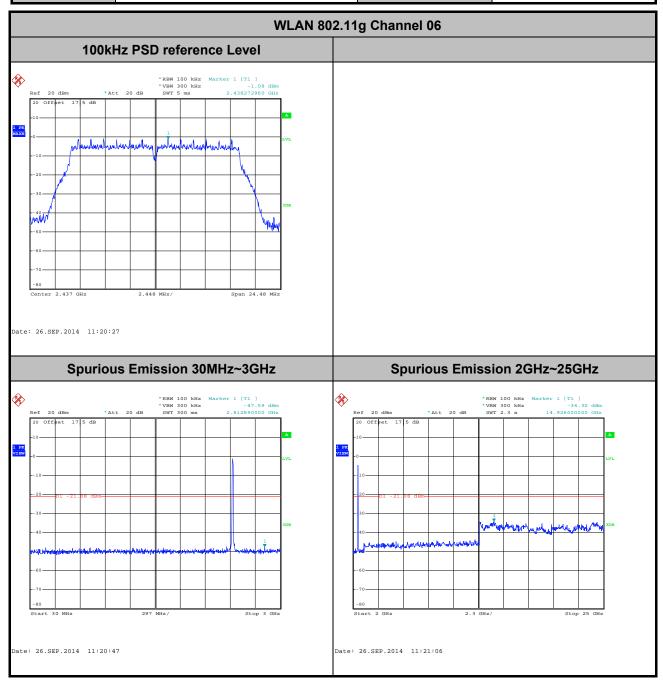
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Test Mode :	802.11g	Temperature :	24~26℃
Test Band :	2.4GHz Low	Relative Humidity :	50~53%
Test Channel :	01	Test Engineer :	Fly Liang



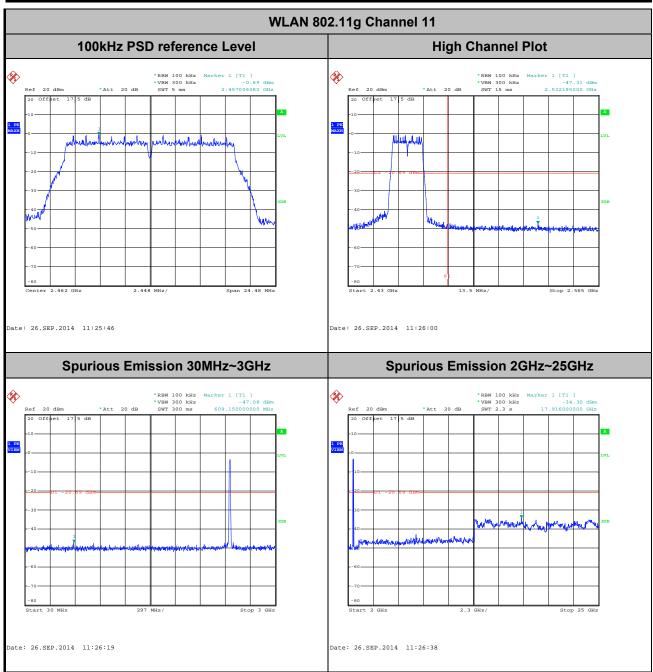
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Test Mode :	802.11g	Temperature :	24~26℃
Test Band :	2.4GHz Mid	Relative Humidity :	50~53%
Test Channel :	06	Test Engineer :	Fly Liang



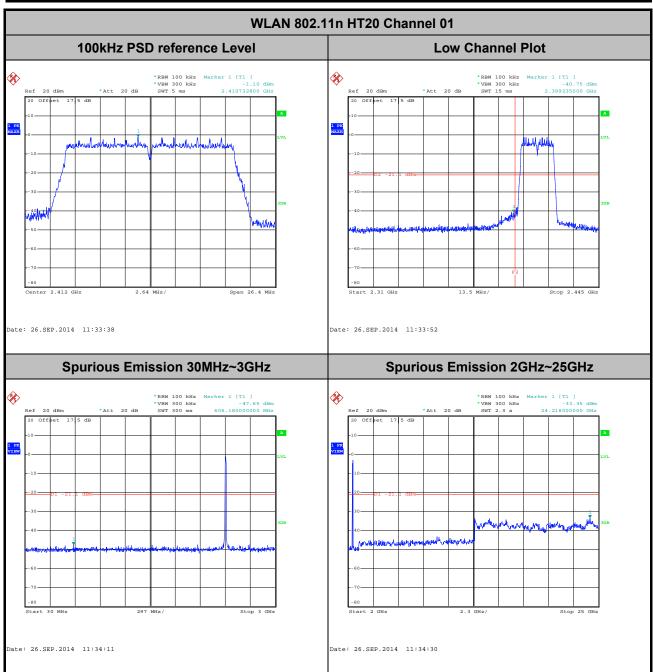
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Test Mode :	802.11g	Temperature :	24~26℃
Test Band :	2.4GHz High	Relative Humidity :	50~53%
Test Channel :	11	Test Engineer :	Fly Liang



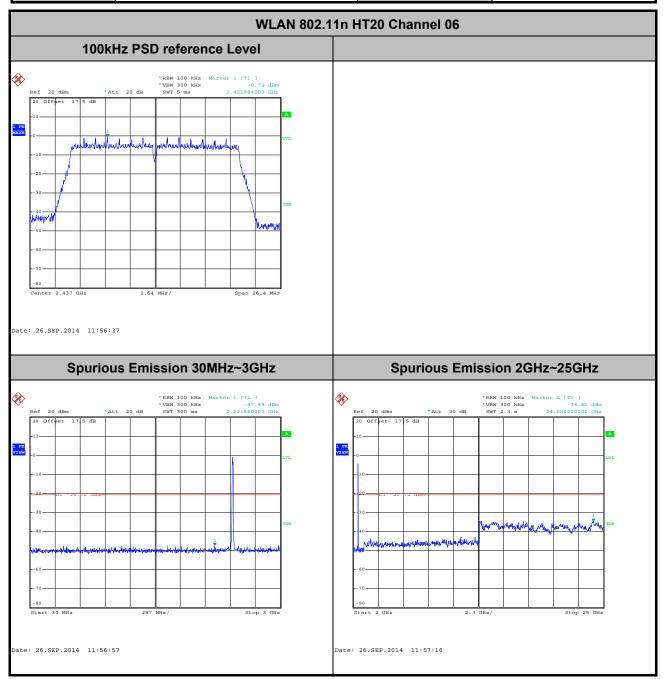
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Test Mode :	802.11n HT20	Temperature :	24~26℃
Test Band :	2.4GHz Low	Relative Humidity :	50~53%
Test Channel :	01	Test Engineer :	Fly Liang



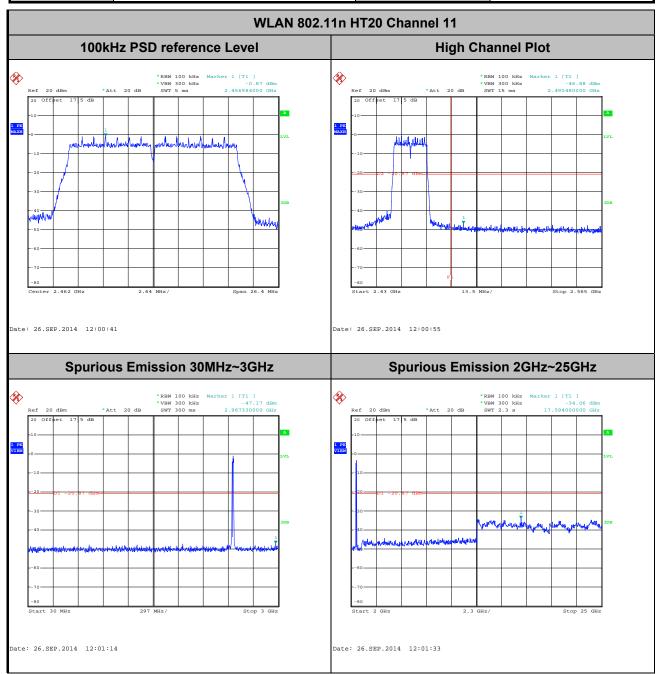
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Test Mode :	802.11n HT20	Temperature :	24~26℃
Test Band :	2.4GHz Mid	Relative Humidity :	50~53%
Test Channel :	06	Test Engineer :	Fly Liang



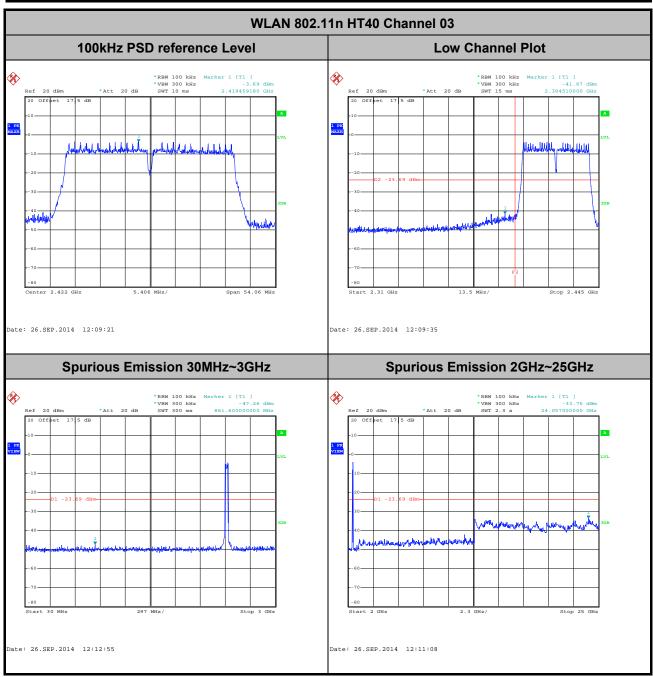
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Test Mode :	802.11n HT20	Temperature :	24~26℃
Test Band :	2.4GHz High	Relative Humidity :	50~53%
Test Channel :	11	Test Engineer :	Fly Liang



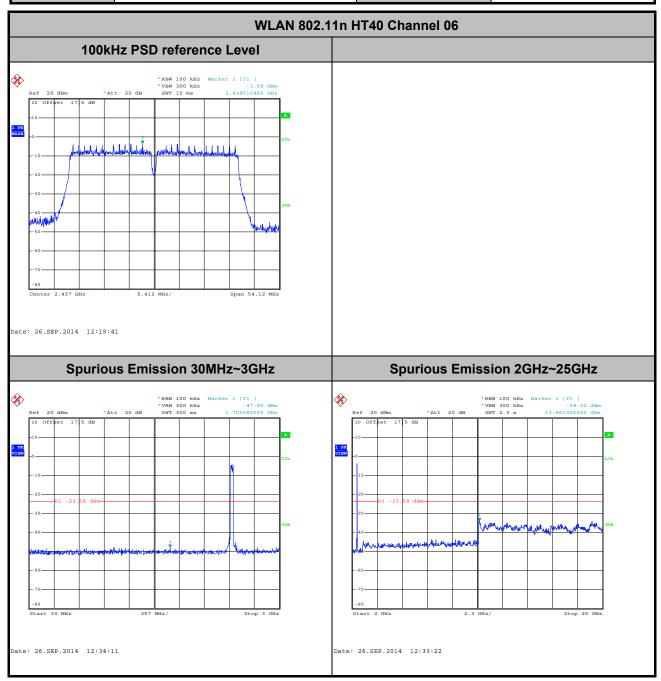
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Test Mode :	802.11n HT40	Temperature :	24~26℃
Test Band :	2.4GHz Low	Relative Humidity :	50~53%
Test Channel :	03	Test Engineer :	Fly Liang



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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 :	Fly Liang

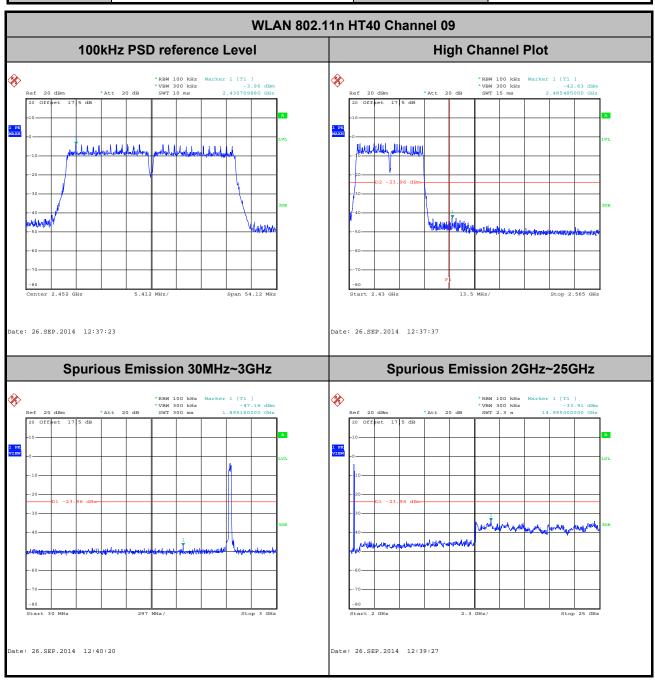


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 Test Mode :
 802.11n HT40
 Temperature :
 24~26℃

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

 Test Channel :
 09
 Test Engineer :
 Fly Liang



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3.5 Radiated Band Edges and Spurious Emission Measurement

3.5.1 Limit of Radiated band edge and Spurious Emission Measurement

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

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

3.5.2 Measuring Instruments

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

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3.5.3 Test Procedures

- 1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r02.
- 2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.

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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(ms)	1/T(kHz)	VBW Setting
802.11b	98.13	-	-	10Hz
802.11g	88.45	1.39	0.72	1kHz
2.4GHz 802.11n HT20	88.35	1.30	0.77	1kHz
2.4GHz 802.11n HT40	79.61	0.66	1.52	3kHz

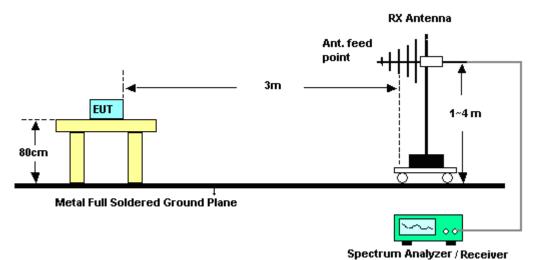
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3.5.4 Test Setup

For radiated emissions below 30MHz



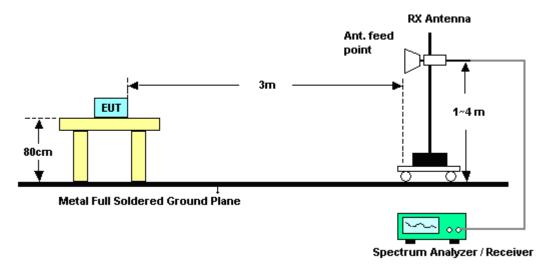
For radiated emissions from 30MHz to 1GHz



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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.

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3.5.6 Test Result of Radiated Spurious at Band Edges

Test Mode :	802.11b	Temperature :	21~22°C
Test Band :	Low	Relative Humidity :	48~52%
Test Channel :	01	Test Engineer :	Nick Su

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	ANTENNA POLARITY : HORIZONTAL											
Frequency	equency 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)			
2357.88	54.63	-19.37	74	56.37	31.89	2.62	36.25	100	341	Peak		
2357.43	37.33	-16.67	54	39.07	31.89	2.62	36.25	100	341	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)				
2351.58	47.71	-26.29	74	49.46	31.89	2.61	36.25	127	71	Peak			
2364.81	35.74	-18.26	54	37.48	31.89	2.62	36.25	127	71	Average			

Test Mode :	802.11b	Temperature :	21~22°C
Test Band :	High	Relative Humidity :	48~52%
Test Channel :	11	Test Engineer :	Nick Su

	ANTENNA POLARITY : HORIZONTAL											
Frequency												
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos			
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)			
2485.54	50.23	-23.77	74	51	32.34	2.68	35.79	100	343	Peak		
2483.89	37.13	-16.87	54	37.9	32.34	2.68	35.79	100	343	Average		

	ANTENNA POLARITY: VERTICAL											
Frequency	equency 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)			
2490.07	48.01	-25.99	74	48.67	32.4	2.68	35.74	124	80	Peak		
2483.65	35.92	-18.08	54	36.69	32.34	2.68	35.79	124	80	Average		

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Test Mode :	802.11g	Temperature :	21~22°C
Test Band :	Low	Relative Humidity :	48~52%
Test Channel :	01	Test Engineer :	Nick Su

	ANTENNA POLARITY : HORIZONTAL											
Frequency	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)			
2390	66.57	-7.43	74	68	32.01	2.64	36.08	100	23	Peak		
2389.83	44.1	-9.9	54	45.53	32.01	2.64	36.08	100	23	Average		

	ANTENNA POLARITY : VERTICAL											
Frequency	quency 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	59.29	-14.71	74	60.72	32.01	2.64	36.08	192	237	Peak		
2390	39.7	-14.3	54	41.13	32.01	2.64	36.08	192	237	Average		

Test Mode :	802.11g	Temperature :	21~22°C
Test Band :	High	Relative Humidity :	48~52%
Test Channel :	11	Test Engineer :	Nick Su

	ANTENNA POLARITY : HORIZONTAL											
Frequency	requency 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)			
2483.65	70.95	-3.05	74	71.72	32.34	2.68	35.79	100	0	Peak		
2483.59	46.75	-7.25	54	47.52	32.34	2.68	35.79	100	0	Average		

	ANTENNA POLARITY: VERTICAL											
Frequency	Frequency Level Over Limit Read Antenna Cable Preamp Ant Table Remar											
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos			
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)			
2483.86	60.59	-13.41	74	61.36	32.34	2.68	35.79	189	244	Peak		
2483.68	38.94	-15.06	54	39.71	32.34	2.68	35.79	189	244	Average		

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Test Mode :	802.11n HT20	Temperature :	21~22°C
Test Band :	Low	Relative Humidity :	48~52%
Test Channel :	01	Test Engineer :	Nick Su

	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)			
2389.11	66.76	-7.24	74	68.19	32.01	2.64	36.08	103	17	Peak		
2390	43.17	-10.83	54	44.6	32.01	2.64	36.08	103	17	Average		

	ANTENNA POLARITY: VERTICAL											
Frequency	requency 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)			
2387.76	61.93	-12.07	74	63.36	32.01	2.64	36.08	100	77	Peak		
2390	39.15	-14.85	54	40.58	32.01	2.64	36.08	100	77	Average		

Test Mode :	802.11n HT20	Temperature :	21~22°C
Test Band :	High	Relative Humidity :	48~52%
Test Channel :	11	Test Engineer :	Nick Su

	ANTENNA POLARITY : HORIZONTAL											
Frequency	equency 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)			
2483.5	70.64	-3.36	74	71.41	32.34	2.68	35.79	100	0	Peak		
2483.62	42.33	-11.67	54	43.1	32.34	2.68	35.79	100	0	Average		

	ANTENNA POLARITY: VERTICAL											
Frequency Level Over Limit Read Antenna Cable Preamp Ant Table Rer										Remark		
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos			
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)			
2484.43	67.24	-6.76	74	68.01	32.34	2.68	35.79	103	82	Peak		
2483.62	40.15	-13.85	54	40.92	32.34	2.68	35.79	103	82	Average		

Test Mode :	802.11n HT40	Temperature :	21~22°C
Test Band :	Low	Relative Humidity :	48~52%
Test Channel :	03	Test Engineer :	Nick Su

	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)			
2388.39	72.63	-1.37	74	74.06	32.01	2.64	36.08	100	329	Peak		
2388.21	48.52	-5.48	54	49.95	32.01	2.64	36.08	100	329	Average		
2485.33	52.49	-21.51	74	53.26	32.34	2.68	35.79	100	329	Peak		
2484.73	37.27	-16.73	54	38.04	32.34	2.68	35.79	100	329	Average		

	ANTENNA POLARITY : VERTICAL											
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)			
2387.85	70.04	-3.96	74	71.47	32.01	2.64	36.08	103	80	Peak		
2389.11	46.57	-7.43	54	48	32.01	2.64	36.08	103	80	Average		
2491.03	49.38	-24.62	74	50.04	32.4	2.68	35.74	103	80	Peak		
2483.95	36.46	-17.54	54	37.23	32.34	2.68	35.79	103	80	Average		

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Test Mode :	802.11n HT40	Temperature :	21~22°C
Test Band :	High	Relative Humidity :	48~52%
Test Channel :	09	Test Engineer :	Nick Su

	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)			
2375.61	58.76	-15.24	74	60.33	31.95	2.64	36.16	103	331	Peak		
2385.87	41.67	-12.33	54	43.1	32.01	2.64	36.08	103	331	Average		
2484.67	71.36	-2.64	74	72.13	32.34	2.68	35.79	100	339	Peak		
2483.5	46.12	-7.88	54	46.89	32.34	2.68	35.79	100	339	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)			
2384.97	55.62	-18.38	74	57.19	31.95	2.64	36.16	127	122	Peak		
2384.7	38.92	-15.08	54	40.49	31.95	2.64	36.16	127	122	Average		
2484.55	65.23	-8.77	74	66	32.34	2.68	35.79	150	115	Peak		
2485.45	40.75	-13.25	54	41.52	32.34	2.68	35.79	150	115	Average		

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

Note: Pre-scanned all test modes and only choose the worst case mode recorded in the test report for radiated spurious emission below 1GHz.

Test Mode :	802.	.11b	Temperature :	21~22°C			
Test Channel :	01		Relative Humidity :	48~52%			
Test Engineer :	Nick	Su	Polarization :	Horizontal			
	1.	2412 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)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2412	100.81	-	-	102.09	32.08	2.66	36.02	100	341	Peak
2412	94.28	-	-	95.56	32.08	2.66	36.02	100	341	Average
4824	44.95	-29.05	74	43.62	34.2	3.78	36.65	100	340	Peak

Test Mode :	802.11b	Temperature :	21~22°C							
Test Channel :	01	Relative Humidity :	48~52%							
Test Engineer :	Nick Su	Polarization :	Vertical							
	1. 2412 MHz is fundamenta	2412 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)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2412	95.6	-	-	96.88	32.08	2.66	36.02	127	71	Peak
2412	89.18	-	-	90.46	32.08	2.66	36.02	127	71	Average
4824	44.98	-29.02	74	43.65	34.2	3.78	36.65	138	331	Peak

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Test Mode :	802.11b	Temperature :	21~22°C				
Test Channel :	06	Relative Humidity :	48~52%				
Test Engineer :	Nick Su	Polarization :	Horizontal				
	1. 2437 MHz is fundament	. 2437 MHz is fundamental signal which can be ignored.					
Remark :	2. Average measurement	Average measurement was not performed if peak level went lower than th					
	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)	
2437	101.62	-	-	102.66	32.21	2.66	35.91	100	340	Peak
2437	95.21	-	-	96.25	32.21	2.66	35.91	100	340	Average
4874	45.63	-28.37	74	44.49	34.2	3.78	36.84	109	304	Peak
7311	48.4	-25.6	74	46.81	35.72	4.73	38.86	127	169	Peak

Test Mode :	802.11b	Temperature :	21~22°C						
Test Channel :	06	Relative Humidity :	48~52%						
Test Engineer :	Nick Su	Polarization :	Vertical						
	1. 2437 MHz is fundament	al signal which can be	ignored.						
Remark :	2. Average measurement	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	97.68	-	-	98.72	32.21	2.66	35.91	100	75	Peak
2437	91.37	-	-	92.41	32.21	2.66	35.91	100	75	Average
4874	48.59	-25.41	74	47.45	34.2	3.78	36.84	147	325	Peak
7311	46.9	-27.1	74	45.31	35.72	4.73	38.86	128	314	Peak

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Test Mode :	802.11b	Temperature :	21~22°C			
Test Channel :	11	Relative Humidity :	48~52%			
Test Engineer :	Nick Su	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	101.55	-	-	102.46	32.27	2.67	35.85	100	343	Peak
2462	95.03	-	-	95.94	32.27	2.67	35.85	100	343	Average
4924	45.35	-28.65	74	44.4	34.2	3.78	37.03	125	124	Peak
7386	48.82	-25.18	74	47.48	35.76	4.77	39.19	127	210	Peak

Test Mode :	802.11b	Temperature :	21~22°C				
Test Channel :	11	Relative Humidity :	48~52%				
Test Engineer :	Nick Su	Polarization :	Vertical				
	1. 2462 MHz is fundament	2462 MHz is fundamental signal which can be ignored.					
Remark :	2. Average measurement	. 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	97.68	-	-	98.59	32.27	2.67	35.85	124	80	Peak
2462	90.89	-	-	91.8	32.27	2.67	35.85	124	80	Average
4924	45.9	-28.1	74	44.95	34.2	3.78	37.03	120	200	Peak
7386	47.84	-26.16	74	46.5	35.76	4.77	39.19	165	310	Peak

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Test Mode :	802.11g	Temperature :	21~22°C					
Test Channel :	01	Relative Humidity :	48~52%					
Test Engineer :	Nick Su	Polarization :	Horizontal					
	1. 2412 MHz is fundament	2412 MHz is fundamental signal which can be ignored.						
Remark :	2. Average measurement	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)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2412	101.12	-	-	102.4	32.08	2.66	36.02	100	23	Peak
2412	89.16	-	-	90.44	32.08	2.66	36.02	100	23	Average
4824	45.16	-28.84	74	43.83	34.2	3.78	36.65	105	162	Peak

Test Mode :	802	2.11g	Temperature :	21~22°C				
Test Channel :	01		Relative Humidity :	48~52%				
Test Engineer :	Nic	k Su	Polarization :	Vertical				
	1.	2412 MHz is fundamental signal which can be ignored.						
Remark :	2.	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)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2412	95.87	-	-	97.15	32.08	2.66	36.02	192	237	Peak
2412	83.88	-	-	85.16	32.08	2.66	36.02	192	237	Average
4824	45.74	-28.26	74	44.41	34.2	3.78	36.65	184	205	Peak

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Test Mode :	802.11g	Temperature :	21~22°C				
Test Channel :	06	Relative Humidity :	48~52%				
Test Engineer :	Nick Su	Polarization :	Horizontal				
	1. 2437 MHz is fundament	2437 MHz is fundamental signal which can be ignored.					
Remark :	2. Average measurement	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	101.44	-	-	102.48	32.21	2.66	35.91	100	0	Peak
2437	89.89	-	-	90.93	32.21	2.66	35.91	100	0	Average
4874	44.23	-29.77	74	43.09	34.2	3.78	36.84	120	314	Peak
7311	46.66	-27.34	74	45.07	35.72	4.73	38.86	108	340	Peak

Test Mode :	802.11g	Temperature :	21~22°C				
Test Channel :	06	Relative Humidity :	48~52%				
Test Engineer :	Nick Su	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	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
ľ	(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
	2437	94.78	-	-	95.82	32.21	2.66	35.91	153	285	Peak
	2437	83.43	-	-	84.47	32.21	2.66	35.91	153	285	Average
	4874	43.48	-30.52	74	42.34	34.2	3.78	36.84	109	243	Peak
	7311	46.48	-27.52	74	44.89	35.72	4.73	38.86	125	162	Peak

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Test Mode :	802.11g	Temperature :	21~22°C				
Test Channel :	11	Relative Humidity :	48~52%				
Test Engineer :	Nick Su	Polarization :	Horizontal				
	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 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	101.84	-	-	102.75	32.27	2.67	35.85	100	0	Peak
2462	90.36	-	-	91.27	32.27	2.67	35.85	100	0	Average
4924	43.99	-30.01	74	43.04	34.2	3.78	37.03	105	65	Peak
7386	49.33	-24.67	74	47.99	35.76	4.77	39.19	184	265	Peak

Test Mode :	802.11g	Temperature :	21~22°C				
Test Channel :	11	Relative Humidity :	48~52%				
Test Engineer :	Nick Su	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 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	94.1	-	-	95.01	32.27	2.67	35.85	189	244	Peak
2462	83.08	-	-	83.99	32.27	2.67	35.85	189	244	Average
4924	46.18	-27.82	74	45.23	34.2	3.78	37.03	200	164	Peak
7386	47.63	-26.37	74	46.29	35.76	4.77	39.19	120	138	Peak

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Test Mode :	2.4GHz 802.11n HT20	Temperature :	21~22°C					
Test Channel :	01	Relative Humidity :	48~52%					
Test Engineer :	Nick Su	Polarization :	Horizontal					
	1. 2412 MHz is fundament	2412 MHz is fundamental 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)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2412	99.22	-	-	100.5	32.08	2.66	36.02	100	0	Peak
2412	87.71	-	-	88.99	32.08	2.66	36.02	100	0	Average
4824	42.8	-31.2	74	41.47	34.2	3.78	36.65	100	85	Peak

Test Mode :	2.4GHz 802.11n HT20	Temperature :	21~22°C				
Test Channel :	01	Relative Humidity :	48~52%				
Test Engineer :	Nick Su	Polarization :	Vertical				
	1. 2412 MHz is funda	mental signal which can be	ignored.				
Remark :	2. Average measurer	ment 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)	
2412	94.71	-	-	95.99	32.08	2.66	36.02	100	79	Peak
2412	82.6	-	-	83.88	32.08	2.66	36.02	100	79	Average
4824	44.42	-29.58	74	43.09	34.2	3.78	36.65	100	45	Peak

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Test Mode :	2.4	IGHz 802.11n HT20	Temperature :	21~22°C				
Test Channel :	06		Relative Humidity :	48~52%				
Test Engineer :	Nic	ck Su	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	99.17	-	-	100.21	32.21	2.66	35.91	100	0	Peak
2437	86.96	-	-	88	32.21	2.66	35.91	100	0	Average
4874	43.36	-30.64	74	42.22	34.2	3.78	36.84	154	210	Peak
7311	46.7	-27.3	74	45.11	35.72	4.73	38.86	110	258	Peak

Test Mode :	2.4GHz 802.11n HT20	Temperature :	21~22°C						
Test Channel :	06	Relative Humidity :	48~52%						
Test Engineer :	Nick Su	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.	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	96.04	-	-	97.08	32.21	2.66	35.91	105	86	Peak
2437	84.42	-	-	85.46	32.21	2.66	35.91	105	86	Average
4874	42.87	-31.13	74	41.73	34.2	3.78	36.84	148	52	Peak
7311	47.23	-26.77	74	45.64	35.72	4.73	38.86	100	69	Peak

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Test Mode :	2.4GHz 802.11n HT20	Temperature :	21~22°C				
Test Channel :	11	Relative Humidity :	48~52%				
Test Engineer :	Nick Su	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	101.62	-	-	102.53	32.27	2.67	35.85	100	0	Peak
2462	89.74	-	-	90.65	32.27	2.67	35.85	100	0	Average
4924	45.04	-28.96	74	44.09	34.2	3.78	37.03	100	45	Peak
7386	46.69	-27.31	74	45.35	35.76	4.77	39.19	115	200	Peak

Test Mode :	2.4GHz 802.11n HT20	Temperature :	21~22°C				
Test Channel :	11	Relative Humidity :	48~52%				
Test Engineer :	Nick Su	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.						

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	97.55	-	-	98.46	32.27	2.67	35.85	103	86	Peak
2462	86.29	-	-	87.2	32.27	2.67	35.85	103	86	Average
4924	44.54	-29.46	74	43.59	34.2	3.78	37.03	125	301	Peak
7386	48.16	-25.84	74	46.82	35.76	4.77	39.19	100	255	Peak

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Test Mode :	2.4GHz 802.11n HT40	Temperature :	21~22°C					
Test Channel :	03	Relative Humidity :	48~52%					
Test Engineer :	Nick Su	Polarization :	Horizontal					
	1. 2422 MHz is fundament	2422 MHz is fundamental 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)	
30	23.83	-16.17	40	37.1	19.2	0.19	32.66	100	265	Peak
108.57	15.36	-28.14	43.5	36.2	11.37	0.43	32.64	-	-	Peak
147.37	16.35	-27.15	43.5	36.41	11.68	0.82	32.56	-	-	Peak
221.09	22.84	-23.16	46	43.77	10.77	0.8	32.5	-	-	Peak
320.03	17.16	-28.84	46	34.92	13.81	0.84	32.41	-	-	Peak
554.77	20.35	-25.65	46	32.28	18.89	1.29	32.11	-	-	Peak
2422	96.38	-	-	97.54	32.14	2.66	35.96	100	329	Peak
2422	85.99	-	-	87.15	32.14	2.66	35.96	100	329	Average
4844	45.2	-28.8	74	43.94	34.2	3.78	36.72	145	120	Peak
7266	46.92	-27.08	74	45.22	35.71	4.72	38.73	145	82	Peak

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Test Mode :	2.4GHz 802.11n HT40	Temperature :	21~22°C						
Test Channel :	03	Relative Humidity :	48~52%						
Test Engineer :	Nick Su	Polarization :	Vertical						
	1. 2422 MHz is fundament	2422 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	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)	
30	35.67	-4.33	40	48.94	19.2	0.19	32.66	100	211	Peak
43.58	24.62	-15.38	40	44.7	12.26	0.31	32.65	-	-	Peak
57.16	30.08	-9.92	40	55.33	6.88	0.47	32.6	-	-	Peak
154.16	16.21	-27.29	43.5	36.4	11.55	0.82	32.56	-	-	Peak
221.09	18.17	-27.83	46	39.1	10.77	8.0	32.5	-	-	Peak
740.04	23.44	-22.56	46	33.85	20.16	1.47	32.04	-	-	Peak
2422	93.77	-	-	94.93	32.14	2.66	35.96	103	81	Peak
2422	83.34	-	-	84.5	32.14	2.66	35.96	103	81	Average
4844	43.66	-30.34	74	42.4	34.2	3.78	36.72	100	244	Peak
7266	46.35	-27.65	74	44.65	35.71	4.72	38.73	100	48	Peak

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Test Mode :	2.4GHz 802.11n HT40	Temperature :	21~22°C				
Test Channel :	06	Relative Humidity :	48~52%				
Test Engineer :	Nick Su	Polarization :	Horizontal				
	1. 2437 MHz is fundamenta	2437 MHz is fundamental signal which can be ignored.					
Remark :	emark: 2. Average measurement was not performed if peak level went lower that						
	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	96.72	-	-	97.76	32.21	2.66	35.91	100	318	Peak
2437	85.25	-	-	86.29	32.21	2.66	35.91	100	318	Average
4874	43.63	-30.37	74	42.49	34.2	3.78	36.84	145	236	Peak
7311	47.01	-26.99	74	45.42	35.72	4.73	38.86	100	44	Peak

Test Mode :	2.4GHz 802.11n HT40	Temperature :	21~22°C						
Test Channel :	06	Relative Humidity :	48~52%						
Test Engineer :	Nick Su	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	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	93.18	-	-	94.22	32.21	2.66	35.91	102	83	Peak
2437	82.43	-	-	83.47	32.21	2.66	35.91	102	83	Average
4874	44.1	-29.9	74	42.96	34.2	3.78	36.84	158	10	Peak
7311	46.88	-27.12	74	45.29	35.72	4.73	38.86	123	54	Peak

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Test Mode :	2.4GHz 802.11n HT40	Temperature :	21~22°C				
Test Channel :	09	Relative Humidity :	48~52%				
Test Engineer :	Nick Su	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	97.16	-	-	98.19	32.21	2.67	35.91	100	312	Peak
2452	86.61	-	-	87.64	32.21	2.67	35.91	100	312	Average
4904	44.22	-29.78	74	43.2	34.2	3.78	36.96	100	150	Peak
7356	45.31	-28.69	74	43.87	35.74	4.76	39.06	100	54	Peak

Test Mode :	2.4GHz 802.11n HT40	Temperature :	21~22°C					
Test Channel :	09	Relative Humidity :	48~52%					
Test Engineer :	Nick Su	Polarization :	Vertical					
	1. 2452 MHz is fundament	2452 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	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	92.1	-	-	93.13	32.21	2.67	35.91	100	122	Peak
2452	81.19	-	-	82.22	32.21	2.67	35.91	100	122	Average
4904	43.36	-30.64	74	42.34	34.2	3.78	36.96	145	112	Peak
7356	45.8	-28.2	74	44.36	35.74	4.76	39.06	100	65	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 (dBμV)			
(MHz)	Quasi-Peak	Average		
0.15-0.5	66 to 56*	56 to 46*		
0.5-5	56	46		
5-30	60	50		

^{*}Decreases with the logarithm of the frequency.

3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

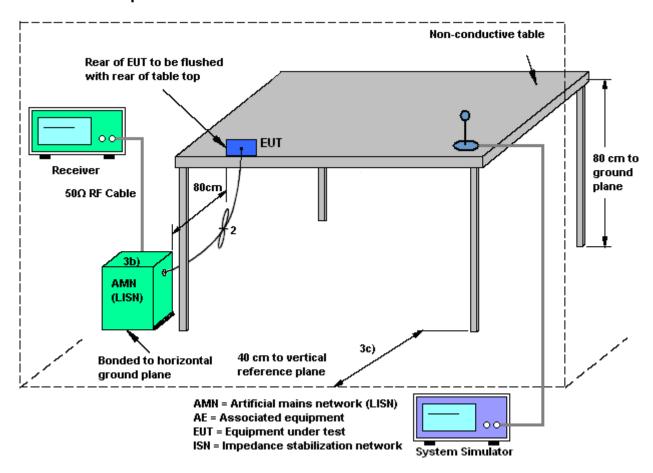
- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room, and it was kept at least 80 centimeters from any other grounded conducting surface.
- 2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support units are connecting to the other LISN.
- 4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- 5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
- 6. Both sides of AC line were checked for maximum conducted interference.
- 7. The frequency range from 150 kHz to 30 MHz was searched.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF bandwidth = 9kHz) with Maximum Hold Mode.

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3.6.4 Test Setup

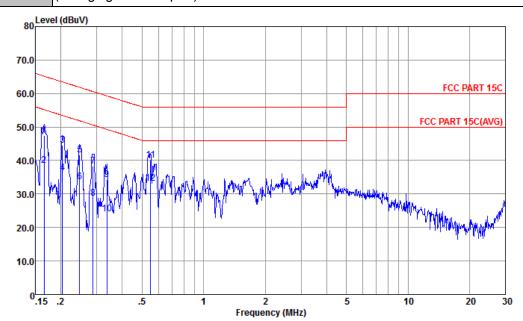


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3.6.5 Test Result of AC Conducted Emission

Test Mode :	Mode 1	Temperature :	21~22℃			
Test Engineer :	Jack Tian	Relative Humidity :	41~42%			
Test Voltage :	120Vac / 60Hz	Phase :	Line			
GSM850 Idle + Bluetooth Link + WLAN Link + Earphone + Battery						
Function Type :	(Charging from Adapter)					



Site : CO01-KS

Condition : FCC PART 15C LISN-L20140306 LINE

mode : Mode 1

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1 2 3 4 5 6 7 8	0. 17 0. 17 0. 20 0. 20 0. 25 0. 25 0. 29 0. 29 0. 34	38. 62 44. 46 36. 36 41. 60 33. 70 38. 27 28. 77	-17. 74 -16. 54 -18. 99 -17. 09 -20. 26 -18. 16 -22. 32 -21. 82 -24. 89	65. 16 55. 16 63. 45 53. 45 61. 86 51. 86 60. 59 50. 59 59. 31	35. 10 26. 30 32. 90 24. 80 30. 20 22. 30 27. 10 17. 60 23. 59	1. 66 1. 66 0. 99 0. 99 0. 89 0. 75 0. 75 0. 49	10. 57 10. 57 10. 51 10. 51 10. 42	Average QP Average QP Average QP Average
10 11 12 *	0.34 0.55	40.05	-25. 19 -15. 95 -12. 75	49.31 56.00 46.00	13. 29 29. 60 22. 80	0. 49 0. 20 0. 20	10.34 10.25	Average

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21~22℃ Test Mode: Mode 1 Temperature: Test Engineer: Relative Humidity: Jack Tian 41~42% 120Vac / 60Hz Phase: Test Voltage: Neutral GSM850 Idle + Bluetooth Link + WLAN Link + Earphone + Battery + USB Cable Function Type: (Charging from Adapter) 80 Level (dBuV) 70.0 FCC PART 15C 60.0 FCC PART 15C(AVG) 50.0 40.0 30.0 20.0 10.0 0<u>.15</u> 5 10 20 30 Frequency (MHz) : CO01-KS Site Condition : FCC PART 15C LISN-N20140306 NEUTRAL mode : Mode 1

Freq	Level	Limit	Line	Level	Factor	Loss	Remark
 MHz	dBuV	dB	dBuV	dBuV	dB	dB	
0. 25 0. 30 0. 30 0. 53 0. 53 3. 94	34. 86 39. 43 27. 43 40. 00 30. 00 34. 03 22. 23 38. 34 27. 94 28. 02	-20.06 -20.26 -23.58 -25.58 -21.78 -21.78 -26.25 -28.05 -17.66 -18.06 -27.98	51. 78 60. 28 50. 28 56. 00 46. 00 56. 00	32. 80 22. 60 27. 90 15. 90 28. 61 18. 61 22. 90 11. 10 27. 80 17. 40	0.97 0.89 0.89 0.74 0.74 0.28 0.28 0.18	10. 56 10. 50 10. 50 10. 39 10. 39 10. 26 10. 26 10. 24	Average QP Average QP Average QP Average QP Average QP
3.94	17.32	-28.68	46.00	6. 90	0.18	10.24	Average

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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	Mar. 03, 2014	Sep. 26, 2014	Mar. 02, 2015	Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1218010	13dBm ~-20dBm	Mar. 03, 2014	Sep. 26, 2014	Mar. 02, 2015	Conducted (TH01-SZ)
Power Sensor	Dare	RPR3006W	TH01SZ00 019	0.3GHz~6GHz	Mar. 14, 2014	Sep. 26, 2014	Mar. 13, 2015	Conducted (TH01-SZ)
EMI Test Receiver	R&S	ESCI	100534	9kHz~3GHz	Nov. 05, 2013	Oct. 03, 2014	Nov. 04, 2014	Radiation (03CH01-KS)
Spectrum Analyzer	R&S	FSP30	101399	9kHz~30GHz	May 04, 2014	Oct. 03, 2014	May 03, 2015	Radiation (03CH01-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Oct. 09, 2013	Oct. 03, 2014	Oct. 08, 2014	Radiation (03CH01-KS)
Bilog Antenna	SCHAFFNER	CBL6112D	23182	25MHz~2GHz	Jan. 08, 2014	Oct. 03, 2014	Jan. 07, 2015	Radiation (03CH01-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75959	1GHz~18GHz	Jan. 08, 2014	Oct. 03, 2014	Jan. 07, 2015	Radiation (03CH01-KS)
Active Horn Antenna	com-power	AHA-118	701030	1GHz~18GHz	Nov. 18, 2013	Oct. 03, 2014	Nov. 17, 2014	Radiation (03CH01-KS)
SHF-EHF Horn	Schwarzbeck	BBHA 9170	BBHA1702 49	15GHz~40GHz	Mar. 10, 2014	Oct. 03, 2014	Mar. 09, 2015	Radiation (03CH01-KS)
Amplifier	com-power	PA-103A	161073	1MHz~1GHz	May 04, 2014	Oct. 03, 2014	May 03, 2015	Radiation (03CH01-KS)
Amplifier	Agilent	8449B	3008A023 71	1GHz~26.5GHz	Dec. 10, 2013	Oct. 03, 2014	Dec. 09, 2014	Radiation (03CH01-KS)
AC Power Source	Chroma	61601	F1040900 04	N/A	NCR	Oct. 03, 2014	NCR	Radiation (03CH01-KS)
Turn Table	MF	MF7802	N/A	0~360 degree	NCR	Oct. 03, 2014	NCR	Radiation (03CH01-KS)
Antenna Mast	MF	MF7802	N/A	1 m~4 m	NCR	Oct. 03, 2014	NCR	Radiation (03CH01-KS)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	May 04, 2014	Oct. 28, 2014	May 03, 2015	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060103	9kHz~30MHz	Dec. 10, 2013	Oct. 28, 2014	Dec. 09, 2014	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060105	9kHz~30MHz	Dec. 10, 2013	Oct. 28, 2014	Dec. 09, 2014	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP00000 0811	AC 0V~300V, 45Hz~1000Hz	Nov. 12, 2013	Oct. 28, 2014	Nov. 11, 2014	Conduction (CO01-KS)

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5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of	2.2
Confidence of 95% (U = 2Uc(y))	2.3

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

Measuring Uncertainty for a Level of	0.5
Confidence of 95% (U = 2Uc(y))	2.5

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