FCC RF Test Report

APPLICANT	:	ZTE CORPORATION
EQUIPMENT	:	WCDMA/GSM(GPRS) Dual-Mode Digital Mobile Phone
BRAND NAME	:	ZTE
MODEL NAME	:	Z795G
FCC ID	:	Q78-Z795G
STANDARD	:	FCC Part 15 Subpart C §15.247
CLASSIFICATION	:	(DTS) Digital Transmission System

The product was received on Apr. 10, 2013 and completely tested on May 22, 2013. We, SPORTON INTERNATIONAL (KUNSHAN) INC., would like to declare that the tested sample has been evaluated in accordance with the procedures and shown the compliance with the applicable technical standards.

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

Reviewed by:

Jones Tsai

Jones Tsai / Manager

Testing Laboratory
2627

SPORTON INTERNATIONAL (KUNSHAN) INC.
No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P.R.C.

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APPENDIX A. PHOTOGRAPHS OF EUT

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR341002C	Rev. 01	Initial issue of report	May 30, 2013

SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.1	15.247(a)(2)	A8.2(a)	6dB Bandwidth	≥ 0.5MHz	Pass	-
3.2	15.247(b)	A8.4	Power Output Measurement	≤ 30dBm	Pass	-
3.3	15.247(e)	A8.2(b)	Power Spectral Density	≤ 8dBm/3kHz	Pass	-
0	15.247(d)	A8.5	Conducted Band Edges	≤ 20dBc	Pass	-
			Conducted Spurious Emission		Pass	-
3.5	15.247(d)	A8.5	Radiated Band Edges	15.209(a) & 15.247(d)	Pass	Under limit 2.48 dB at 2390.00 MHz
			Radiated Spurious Emission			
3.6	15.207	Gen 7.2.4	AC Conducted Emission	15.207(a)	Pass	Under limit 12.17 dB at 0.580 MHz
3.7	15.203 & 15.247(b)	A8.4	Antenna Requirement	N/A	Pass	-

1 General Description

1.1 Applicant

ZTE CORPORATION

ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong, 518057, P.R.China

1.2 Manufacturer

ZTE CORPORATION

ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong, 518057, P.R.China

1.3 Feature of Equipment Under Test

Product Feature	
Equipment	WCDMA/GSM(GPRS) Dual-Mode Digital Mobile Phone
Brand Name	ZTE
Model Name	Z795G
FCC ID	Q78-Z795G
EUT supports Radios application	GSM/GPRS/EGPRS/WCDMA/HSDPA/ WLAN 11bgn / Bluetooth / Bluetooth v4.0-LE
HW Version	whwA
SW Version	1.0.0
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 of Equipment Under Test

Product Specification subjective to this standard	
Tx/Rx Frequency Range	2412 MHz ~ 2462 MHz
Number of Channels	11
Carrier Frequency of Each Channel	2412+(n-1)*5 MHz; n=1~11
Maximum Output Power to Antenna	802.11b : 15.65 dBm (0.037 W) 802.11g : 20.55 dBm (0.114 W) 802.11n HT20 : 19.86 dBm (0.097 W)
Antenna Type	PIFA Antenna type with gain 1.00 dBi
Type of Modulation	802.11b : DSSS (DBPSK / DQPSK / CCK) 802.11g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)

1.5 Testing Site

Test Site	SPORTON INTERNATIONAL (KUNSHAN) INC.			
Test Site Location	No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P.R.C. TEL: +86-0512-5790-0158 FAX: +86-0512-5790-0958			
Test Site No.	Sporton Site No.			FCC/IC Registration No.
	TH01-KS	CO01-KS	03CH01-KS	149928/4086E-1

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

1.6 Applied Standards

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

- FCC Part 15 Subpart C §15.247
- FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r01
- ANSI C63.10-2009

Remark:

1. 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.

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)
2400-2483.5 MHz	1	2412	7	2442
	2	2417	8	2447
	3	2422	9	2452
	4	2427	10	2457
	5	2432	11	2462
	6	2437		

2.2 Pre-Scanned RF Power

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

Channel	Frequency	2.4GHz 802.11b RF Power (dBm)			
		DSSS Data Rate			
		1 Mbps	2 Mbps	5.5 Mbps	11 Mbps
CH 01	2412 MHz	**15.65**	15.62	13.55	15.64
CH 06	2437 MHz	15.52	15.45	15.44	15.51
CH 11	2462 MHz	15.25	14.95	15.11	15.08

Channel	Frequency	2.4GHz 802.11g RF Power (dBm)							
		OFDM Data Rate							
		6 Mbps	9 Mbps	12 Mbps	18 Mbps	24 Mbps	36 Mbps	48 Mbps	54 Mbps
CH 01	2412 MHz	20.46	20.19	20.33	19.88	20.45	20.35	20.13	20.35
CH 06	2437 MHz	20.38	20.08	20.22	19.82	20.35	20.27	20.02	20.22
CH 11	2462 MHz	**20.55**	20.19	20.47	19.92	20.52	20.42	20.22	20.41

Channel	Frequency	2.4GHz 802.11n HT20 RF Power (dBm)							
		OFDM Data Rate							
		6.5 Mbps	13 Mbps	19.5 Mbps	26 Mbps	39 Mbps	52 Mbps	58.5 Mbps	65 Mbps
CH 01	2412 MHz	**19.86**	19.62	19.37	19.02	18.55	18.44	19.12	18.92
CH 06	2437 MHz	19.68	19.42	19.28	19.12	18.45	18.12	19.03	18.63
CH 11	2462 MHz	19.63	19.49	19.15	18.99	18.41	17.99	18.82	18.33

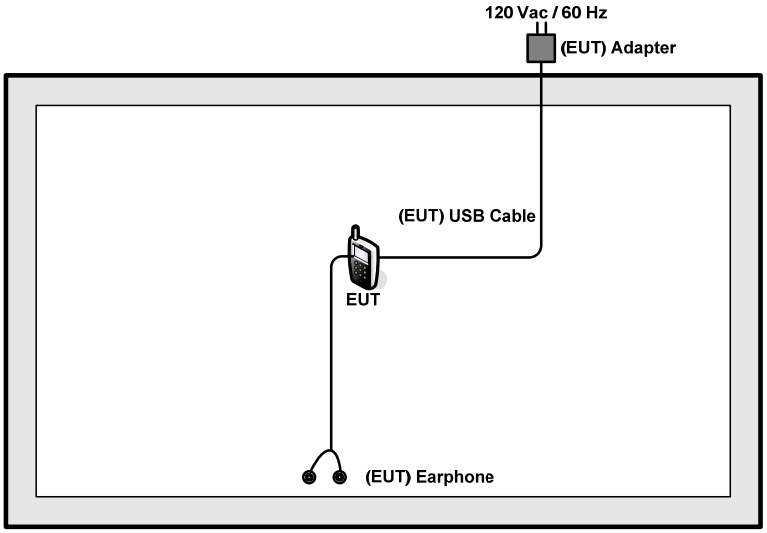
2.3 Test Mode

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

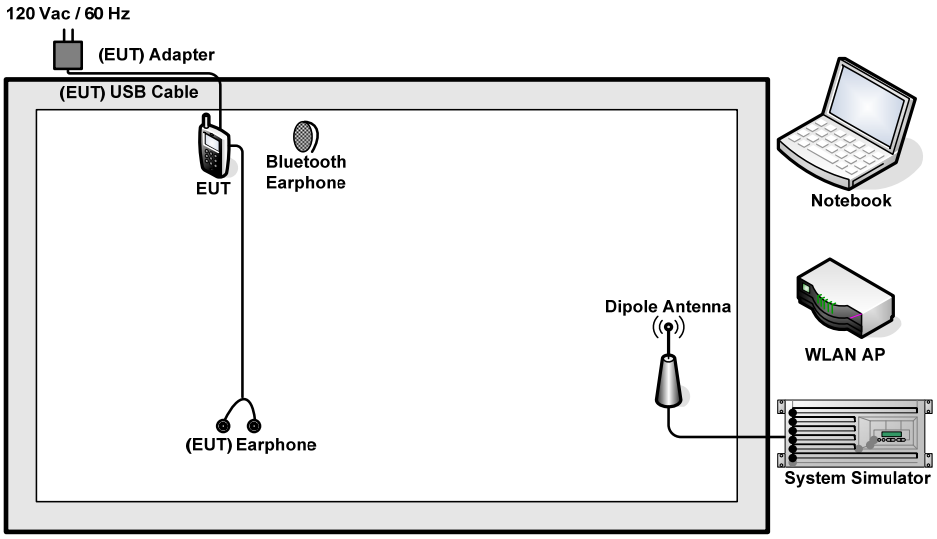
Test Cases				
	Test Items	Mode	Data Rate	Test Channel
Conducted TCs	6dB BW Power Spectral Density	802.11b	1 Mbps	1/6/11
		802.11g	6 Mbps	1/6/11
		802.11n HT20	6.5 Mbps	1/6/11
	Output Power	802.11b	1 Mbps	1/6/11
		802.11g	6 Mbps	1/6/11
		802.11n HT20	6.5 Mbps	1/6/11
	Conducted Band Edge	802.11b	1 Mbps	1/11
		802.11g	6 Mbps	1/11
		802.11n HT20	6.5 Mbps	1/11
	Conducted Spurious Emission	802.11b	1 Mbps	1/6/11
		802.11g	6 Mbps	1/6/11
		802.11n HT20	6.5 Mbps	1/6/11
Radiated TCs	Radiated Band Edge	802.11b	1 Mbps	1/11
		802.11g	6 Mbps	1/11
		802.11n HT20	6.5 Mbps	1/11
	Radiated Spurious Emission	802.11b	1 Mbps	1/6/11
		802.11g	6 Mbps	1/6/11
		802.11n HT20	6.5 Mbps	1/6/11
AC Conducted Emission	Mode 1 : GSM850 Idle + Bluetooth Link + WLAN Link + USB Cable (Charging from Adapter) + Earphone			

2.4 Connection Diagram of Test System

<WLAN Tx Mode>



<AC Conducted Emission Mode>



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.	DC Power Supply	GWINSTEK	GPS-3030D	N/A	N/A	Unshielded, 1.8 m
3.	WLAN AP	D-Link	DIR-855	KA2DIR855A2	N/A	Unshielded, 1.8 m
4.	Notebook	DELL	P08S	QDS-BRCM1030	N/A	AC I/P: Unshielded, 0.9 m DC O/P: Shielded, 1.8 m
5.	Bluetooth Earphone	Nokia	BH-106	QTLBH-106	N/A	N/A

2.6 RF Utility

For WLAN function, programmed RF utility, “ADB” installed in the notebook make the EUT provides functions like channel selection and power level for continuous transmitting and receiving signals.

2.7 Measurement Results Explanation Example

For conducted test items:

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

The spectrum analyzer offset is derived from RF cable loss and 10dB attenuator factor.
Offset = RF cable loss + attenuator factor.
Following table shows an offset computation example with cable loss 5.6 dB.

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

3 Test Result

3.1 6dB Bandwidth Measurement

3.1.1 Limit of 6dB Bandwidth

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

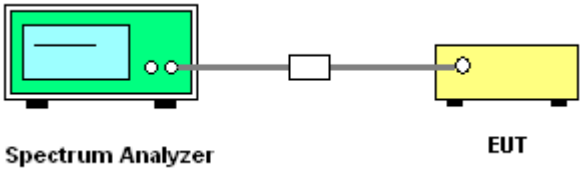
3.1.2 Measuring Instruments

See list of measuring instruments of this test report.

3.1.3 Test Procedures

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

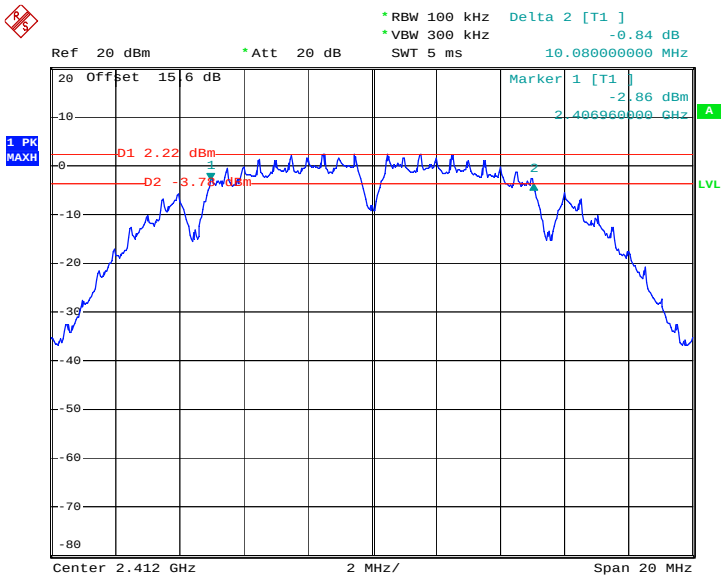


3.1.5 Test Result of 6dB Bandwidth

Test Mode :	802.11b	**Temperature :**	23~24℃
Test Engineer :	Lizy Li	**Relative Humidity :**	47~48%

Channel	Frequency (MHz)	802.11b 6dB Bandwidth (MHz)	6dB Bandwidth Min. Limit (MHz)	Pass/Fail
01	2412	10.08	0.5	Pass
06	2437	10.08	0.5	Pass
11	2462	10.04	0.5	Pass

6 dB Bandwidth Plot on 802.11b Channel 01



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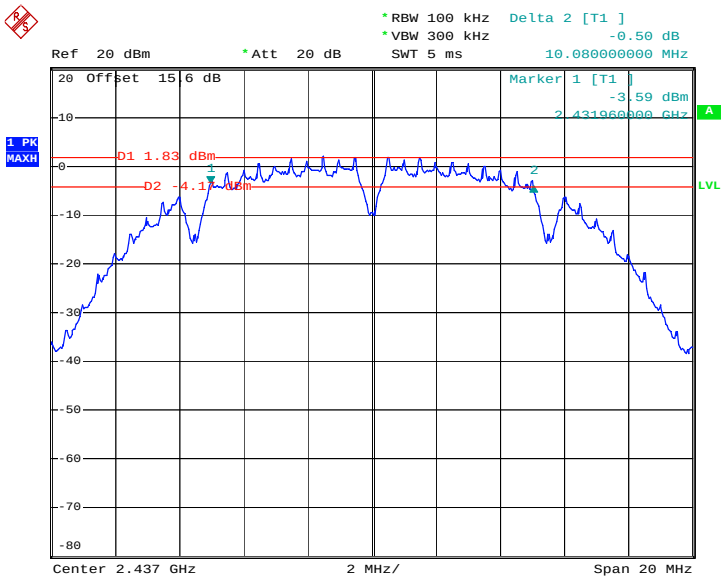
6 dB Bandwidth Plot on 802.11b Channel 06



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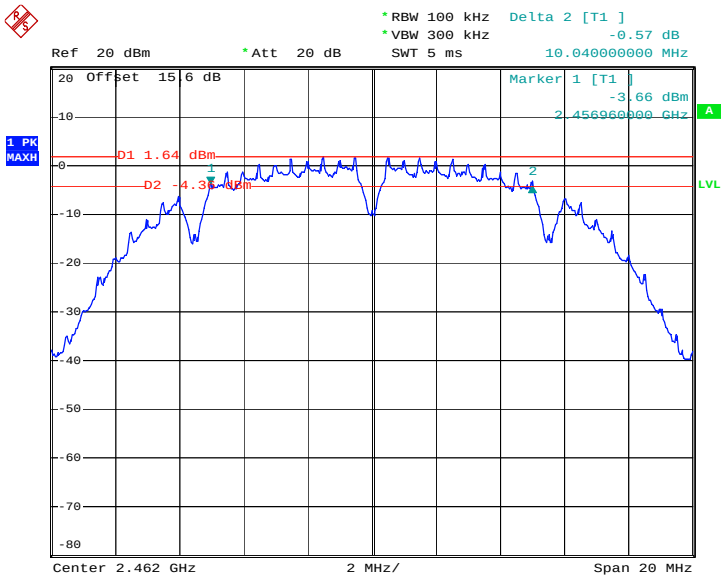
6 dB Bandwidth Plot on 802.11b Channel 11

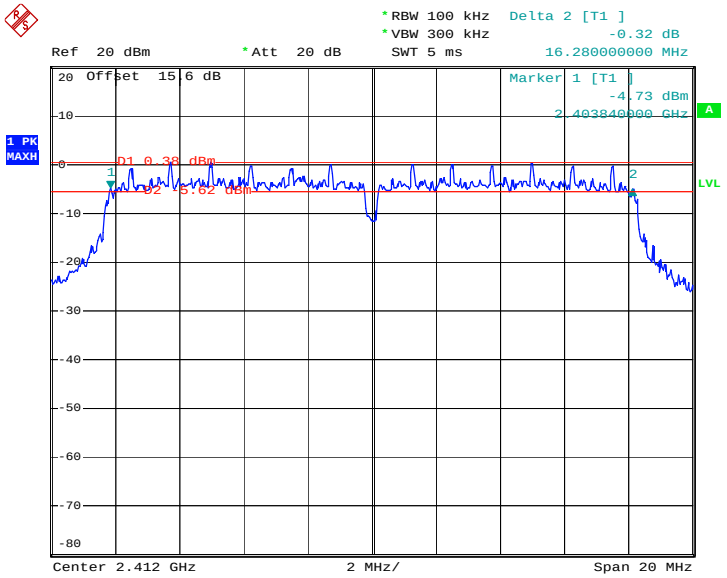


Date: 23.APR.2013 19:44:36

Test Mode :	802.11g	Temperature :	23~24℃
Test Engineer :	Lizy Li	Relative Humidity :	47~48%

Channel	Frequency (MHz)	802.11g 6dB Bandwidth (MHz)	6dB Bandwidth Min. Limit (MHz)	Pass/Fail
01	2412	16.28	0.5	Pass
06	2437	16.28	0.5	Pass
11	2462	16.32	0.5	Pass

6 dB Bandwidth Plot on 802.11g Channel 01



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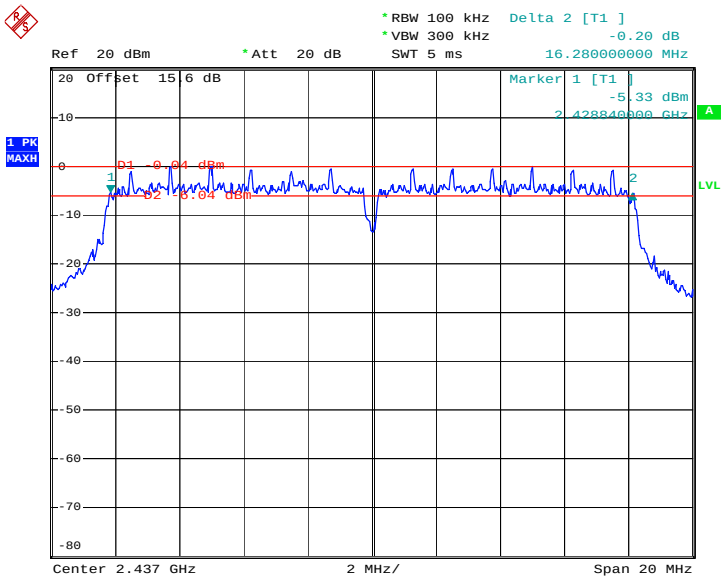
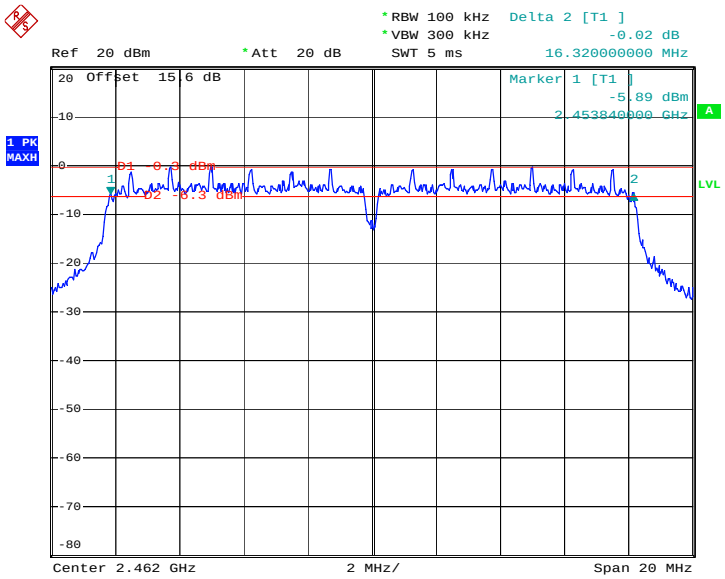
6 dB Bandwidth Plot on 802.11g Channel 06



Date: 23.APR.2013 20:00:42

6 dB Bandwidth Plot on 802.11g Channel 11

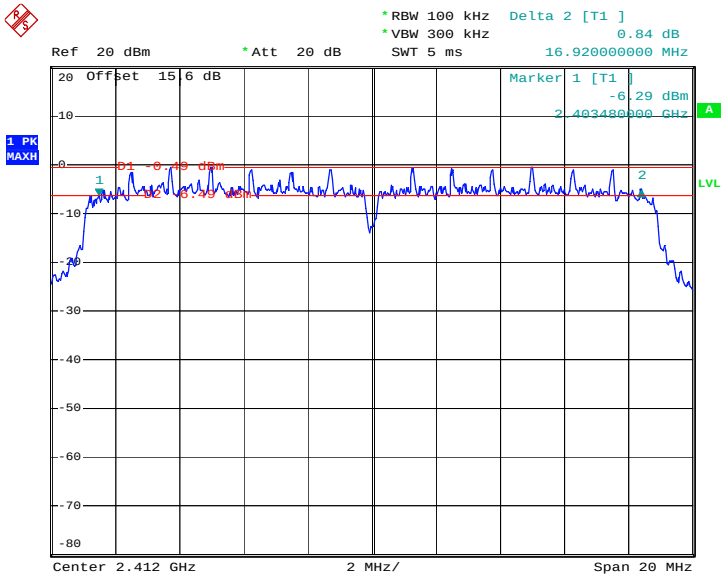


Date: 23.APR.2013 20:04:22

Test Mode :	802.11n HT20	**Temperature :**	23~24℃
Test Engineer :	Lizy Li	**Relative Humidity :**	47~48%

Channel	Frequency (MHz)	2.4GHz 802.11n HT20 6dB Bandwidth (MHz)	6dB Bandwidth Min. Limit (MHz)	Pass/Fail
01	2412	16.92	0.5	Pass
06	2437	17.28	0.5	Pass
11	2462	17.28	0.5	Pass

6 dB Bandwidth Plot on 802.11n HT20 Channel 01



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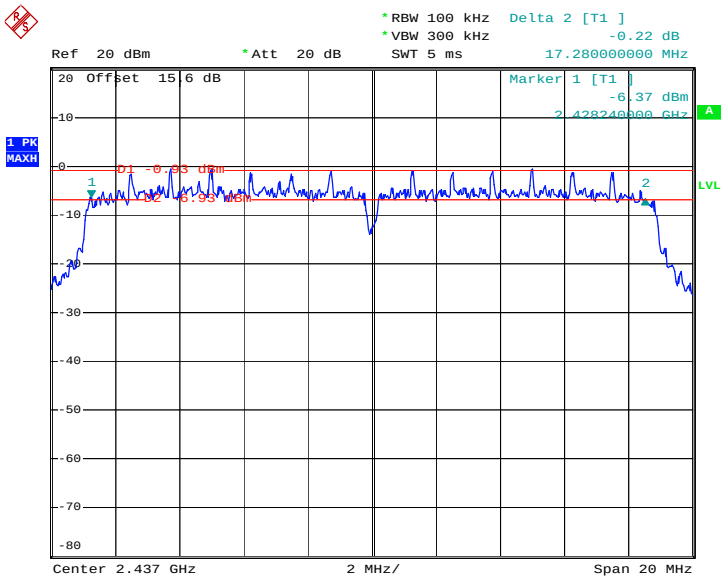
6 dB Bandwidth Plot on 802.11n HT20 Channel 06



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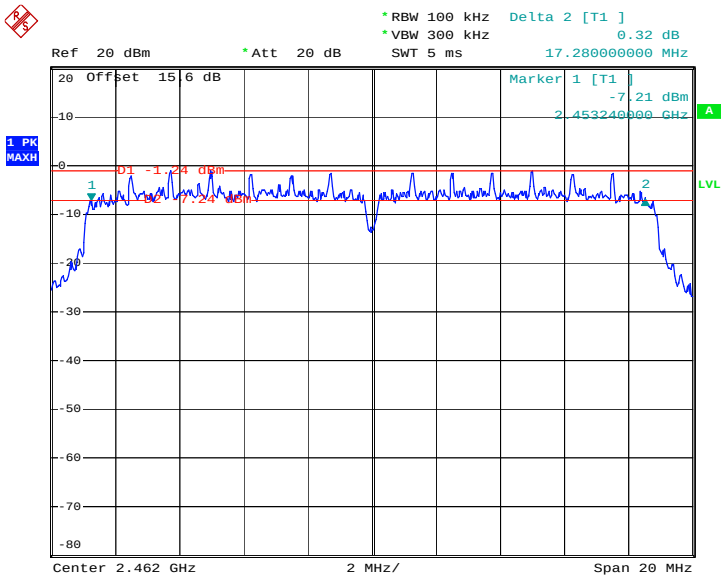
6 dB Bandwidth Plot on 802.11n HT20 Channel 11



Date: 23.APR.2013 20:15:30

3.2 Output Power Measurement

3.2.1 Limit of Output Power

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

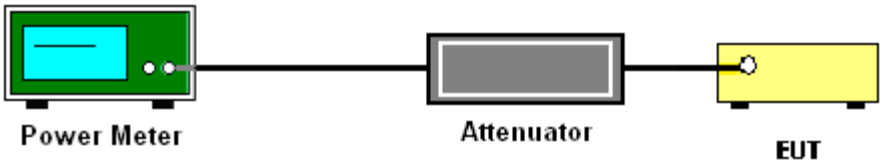
3.2.2 Measuring Instruments

See list of measuring instruments of this test report.

3.2.3 Test Procedures

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

Test Mode :	802.11b	Temperature :	23~24℃
Test Engineer :	Lizy Li	Relative Humidity :	47~48%

Channel	Frequency (MHz)	802.11b Peak Output Power (dBm)	Max. Limits (dBm)	Pass/Fail
01	2412	15.65	30	Pass
06	2437	15.52	30	Pass
11	2462	15.25	30	Pass

Test Mode :	802.11g	Temperature :	23~24℃
Test Engineer :	Lizy Li	Relative Humidity :	47~48%

Channel	Frequency (MHz)	802.11g Peak Output Power (dBm)	Max. Limits (dBm)	Pass/Fail
01	2412	20.46	30	Pass
06	2437	20.38	30	Pass
11	2462	20.55	30	Pass

Test Mode :	802.11n HT20	Temperature :	23~24℃
Test Engineer :	Lizy Li	Relative Humidity :	47~48%

Channel	Frequency (MHz)	2.4GHz 802.11n HT20 Peak Output Power (dBm)	Max. Limits (dBm)	Pass/Fail
01	2412	19.86	30	Pass
06	2437	19.68	30	Pass
11	2462	19.63	30	Pass

3.2.6 Test Result of Average output Power (Reporting Only)

Test Mode :	802.11b	**Temperature :**	23~24℃
Test Engineer :	Lizy Li	**Relative Humidity :**	47~48%
Duty Cycle:	100%	**Duty Factor:**	0.00dB

Channel	Frequency (MHz)	802.11b Average Output Power (dBm)
01	2412	13.41
06	2437	13.26
11	2462	13.02

Test Mode :	802.11g	**Temperature :**	23~24℃
Test Engineer :	Lizy Li	**Relative Humidity :**	47~48%
Duty Cycle:	98.57%	**Duty Factor:**	0.06dB

Channel	Frequency (MHz)	802.11g Average Output Power (dBm)
01	2412	12.31
06	2437	12.05
11	2462	11.84

Test Mode :	802.11n HT20	**Temperature :**	23~24℃
Test Engineer :	Lizy Li	**Relative Humidity :**	47~48%
Duty Cycle:	98.37%	**Duty Factor:**	0.07dB

Channel	Frequency (MHz)	802.11n HT20 Average Output Power (dBm)
01	2412	11.46
06	2437	11.25
11	2462	10.98

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.

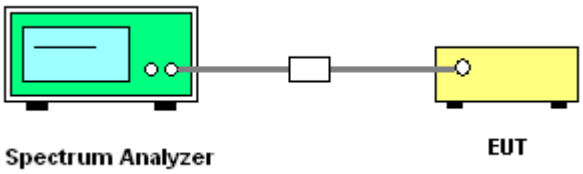
3.3.2 Measuring Instruments

See list of measuring instruments of this test report.

3.3.3 Test Procedures

1. The testing follows Measurement Procedure 10.2 Option 1 of FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r01
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth VBW = 10 kHz In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW)
5. Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.
6. Measure and record the results in the test report.

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Test Mode :	802.11b	**Temperature :**	23~24℃
Test Engineer :	Lizy Li	**Relative Humidity :**	47~48%

Channel	Frequency (MHz)	802.11b Power Density		Max. Limits (dBm/3KHz)	Pass/Fail
		PSD/100KHz (dBm)	PSD/3KHz (dBm)		
01	2412	2.31	-12.41	8	Pass
06	2437	1.65	-13.75	8	Pass
11	2462	1.45	-14.05	8	Pass

Test Mode :	802.11g	**Temperature :**	23~24℃
Test Engineer :	Lizy Li	**Relative Humidity :**	47~48%

Channel	Frequency (MHz)	802.11g Power Density		Max. Limits (dBm/3KHz)	Pass/Fail
		PSD/100KHz (dBm)	PSD/3KHz (dBm)		
01	2412	0.34	-15.27	8	Pass
06	2437	-0.14	-16.20	8	Pass
11	2462	-0.31	-15.88	8	Pass

Test Mode :	802.11n HT20	**Temperature :**	23~24℃
Test Engineer :	Lizy Li	**Relative Humidity :**	47~48%

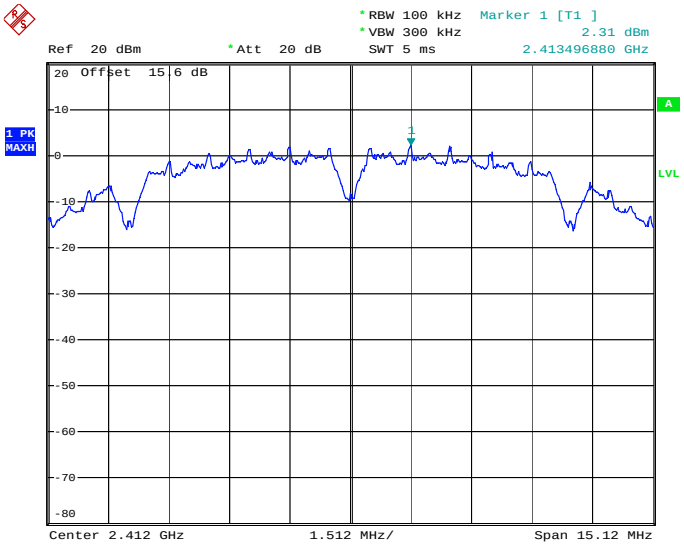
Channel	Frequency (MHz)	802.11n HT20 Power Density		Max. Limits (dBm/3KHz)	Pass/Fail
		PSD/100KHz (dBm)	PSD/3KHz (dBm)		
01	2412	-0.58	-16.06	8	Pass
06	2437	-0.59	-15.16	8	Pass
11	2462	-1.27	-17.10	8	Pass

Note:

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

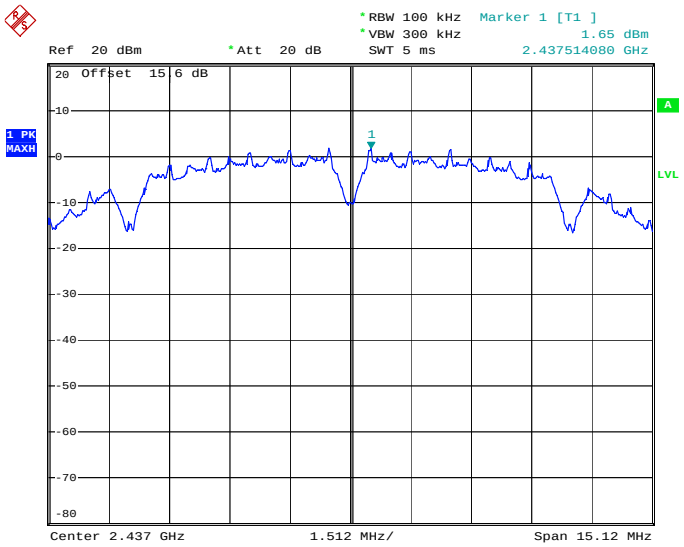
3.3.6 Test Result of Power Spectral Density Plots (100kHz)

PSD 100kHz Plot on 802.11b Channel 01



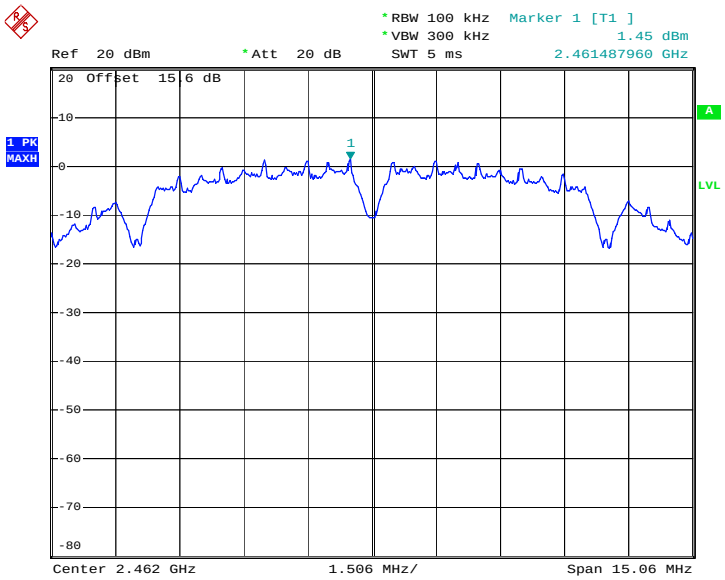
Date: 23.APR.2013 19:37:27

PSD 100kHz Plot on 802.11b Channel 06



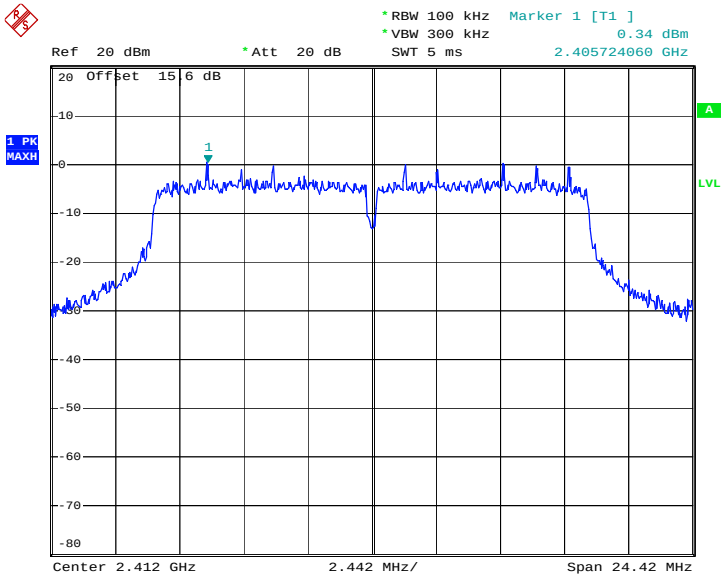
Date: 23.APR.2013 19:41:39

PSD 100kHz Plot on 802.11b Channel 11



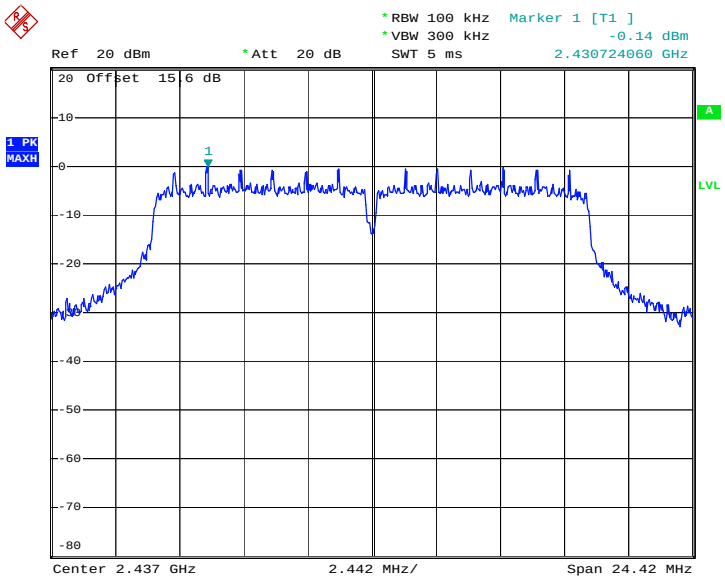
Date: 23.APR.2013 19:45:08

PSD 100kHz Plot on 802.11g Channel 01



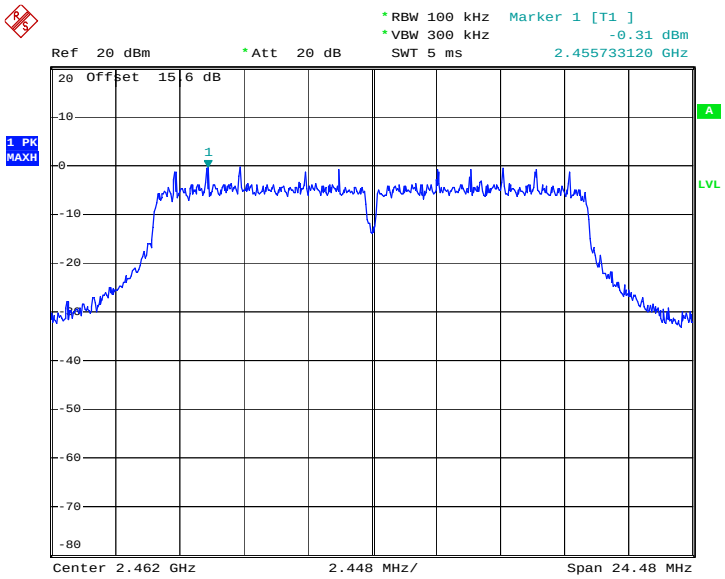
Date: 23.APR.2013 19:50:51

PSD 100kHz Plot on 802.11g Channel 06



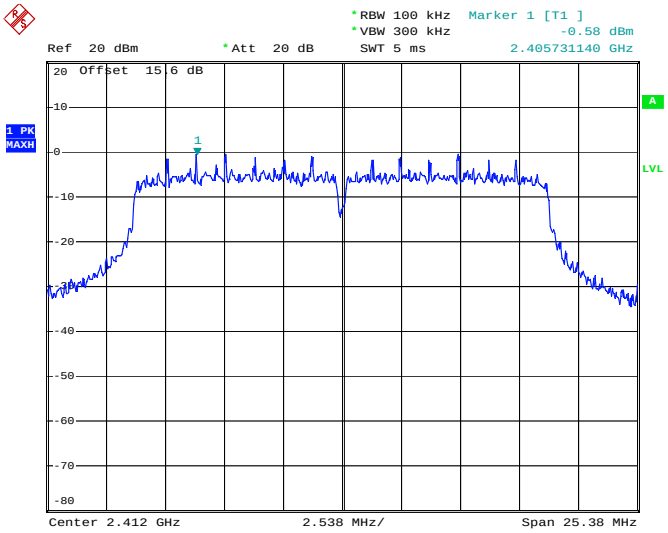
Date: 23.APR.2013 20:01:15

PSD 100kHz Plot on 802.11g Channel 11



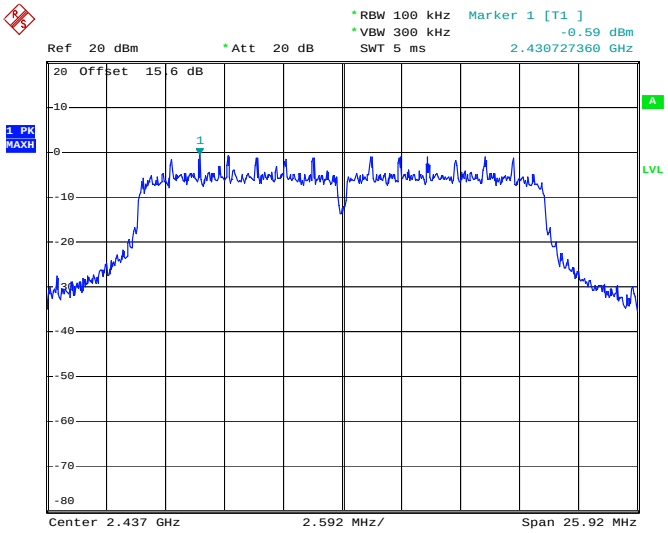
Date: 23.APR.2013 20:04:56

PSD 100kHz Plot on 802.11n HT20 Channel 01



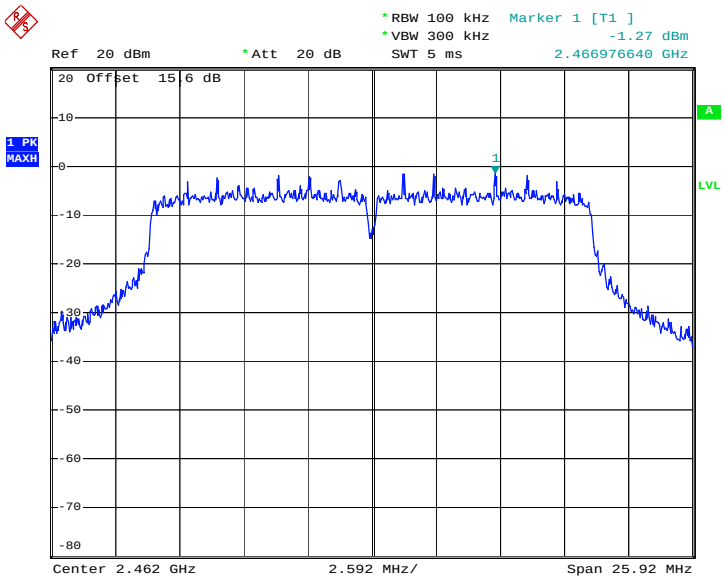
Date: 23.APR.2013 20:09:08

PSD 100kHz Plot on 802.11n HT20 Channel 06



Date: 23.APR.2013 20:13:42

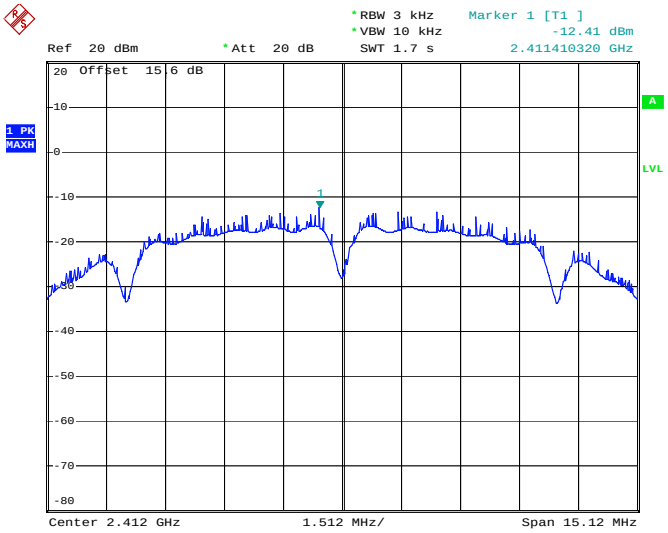
PSD 100kHz Plot on 802.11n HT20 Channel 11



Date: 23.APR.2013 20:16:04

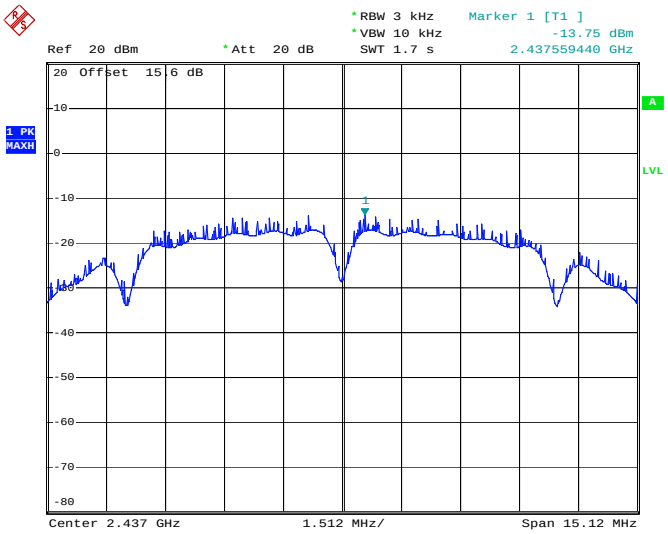
3.3.7 Test Result of Power Spectral Density Plots (3kHz)

PSD 3kHz Plot on 802.11b Channel 01



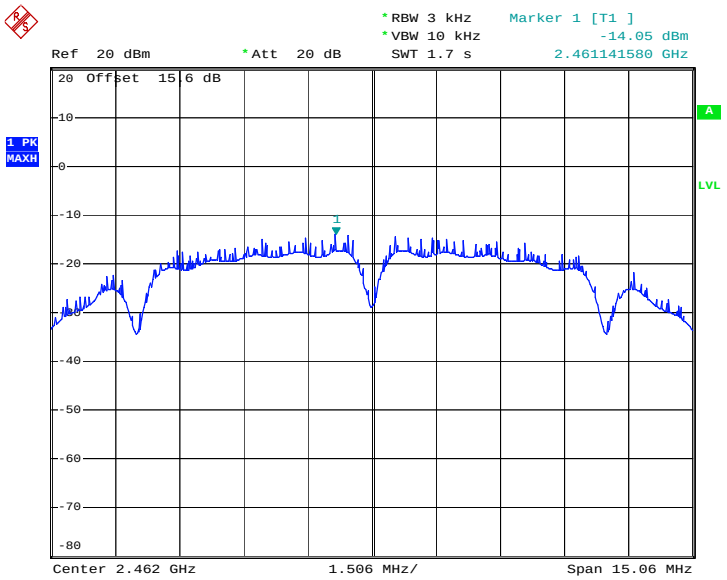
Date: 23.APR.2013 19:37:17

PSD 3kHz Plot on 802.11b Channel 06



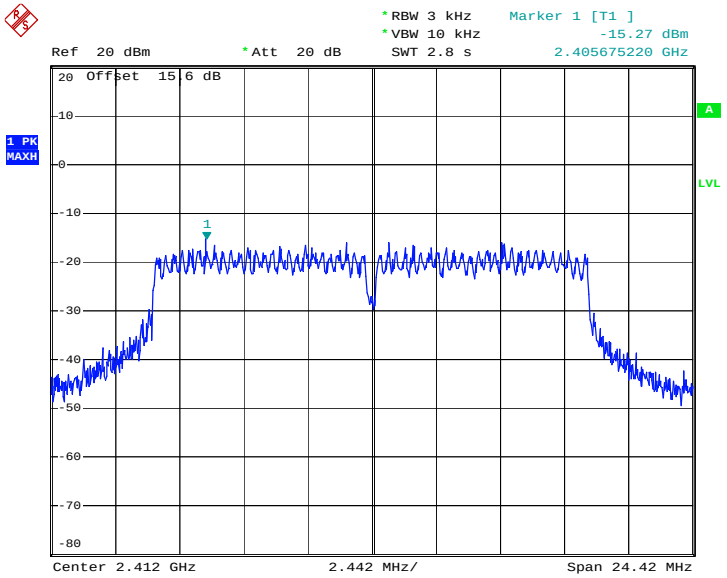
Date: 23.APR.2013 19:41:29

PSD 3kHz Plot on 802.11b Channel 11



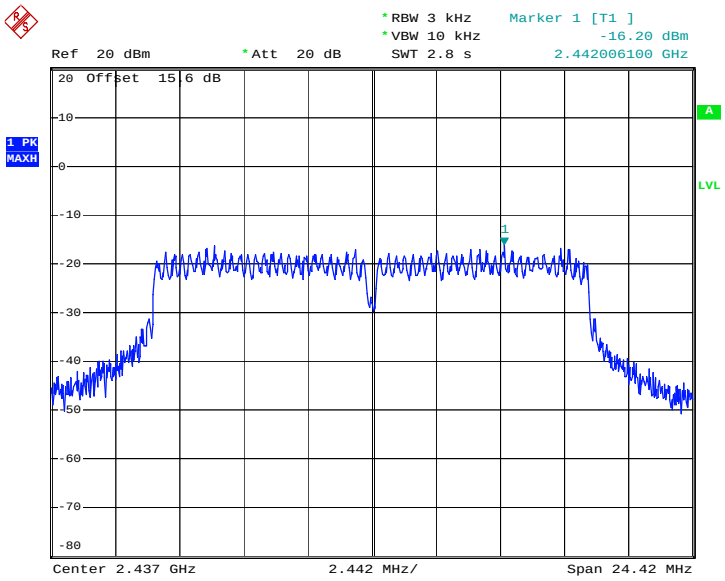
Date: 23.APR.2013 19:44:58

PSD 3kHz Plot on 802.11g Channel 01



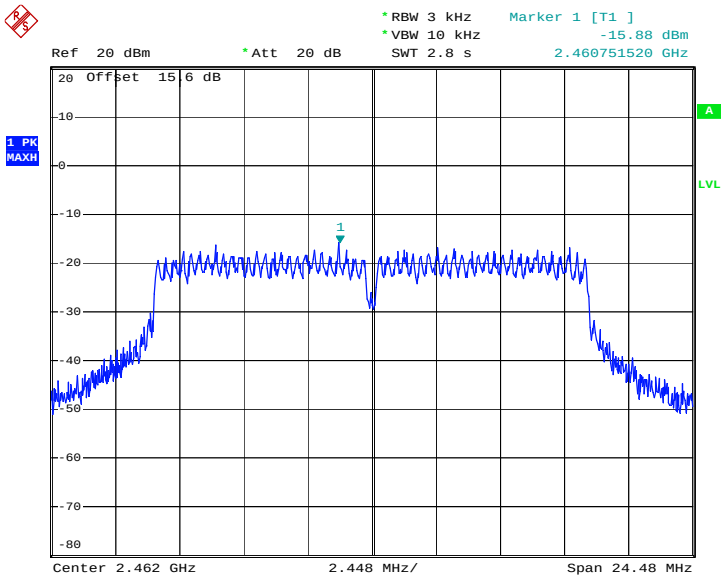
Date: 23.APR.2013 19:50:40

PSD 3kHz Plot on 802.11g Channel 06



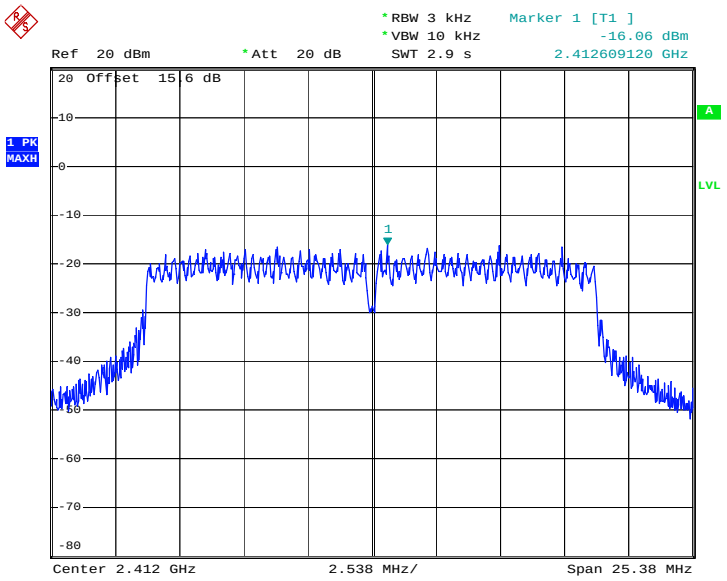
Date: 23.APR.2013 20:01:05

PSD 3kHz Plot on 802.11g Channel 11



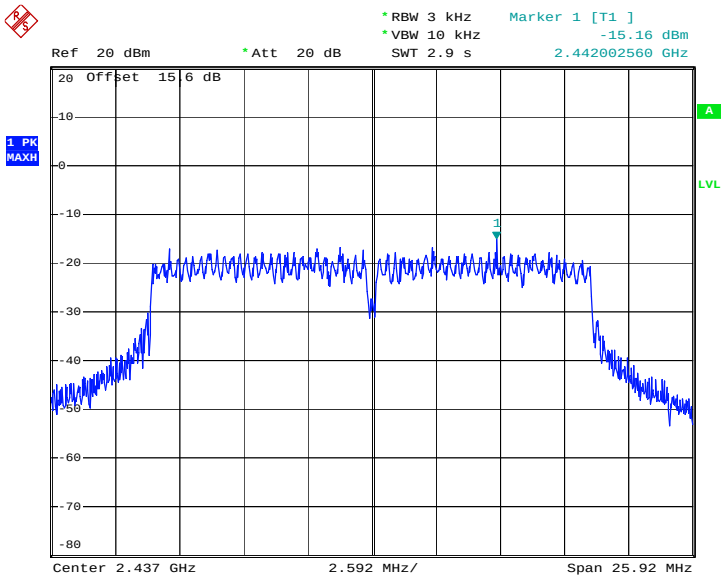
Date: 23.APR.2013 20:04:46

PSD 3kHz Plot on 802.11n HT20 Channel 01



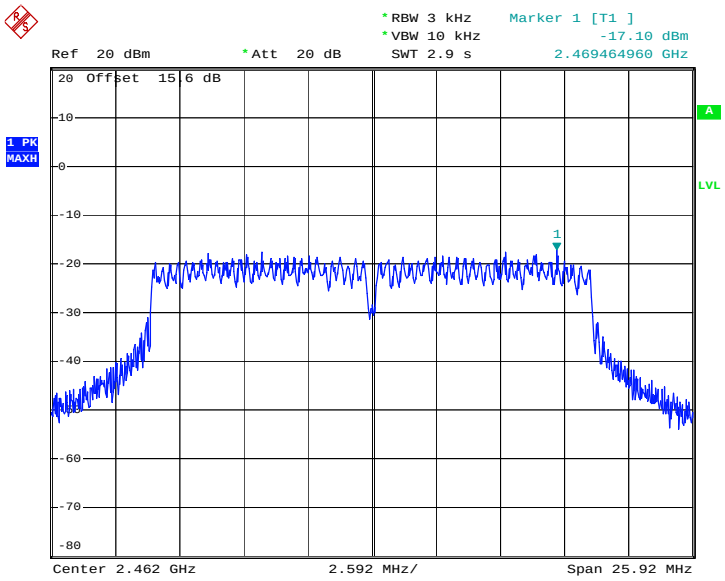
Date: 23.APR.2013 20:08:58

PSD 3kHz Plot on 802.11n HT20 Channel 06



Date: 23.APR.2013 20:13:32

PSD 3kHz Plot on 802.11n HT20 Channel 11



Date: 23.APR.2013 20:15:54

3.4 Conducted Band Edges and Spurious Emission Measurement

3.4.1 Limit of Conducted Band Edges and Spurious Emission Measurement

In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement and radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

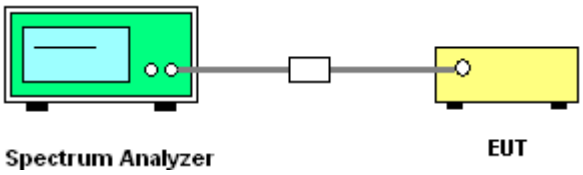
3.4.2 Measuring Instruments

See list of measuring instruments of this test report.

3.4.3 Test Procedures

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

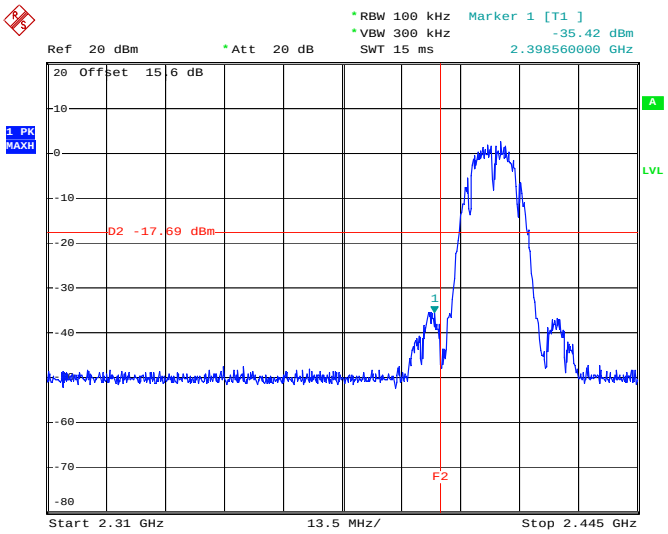
3.4.4 Test Setup



3.4.5 Test Plots of Conducted Band Edges

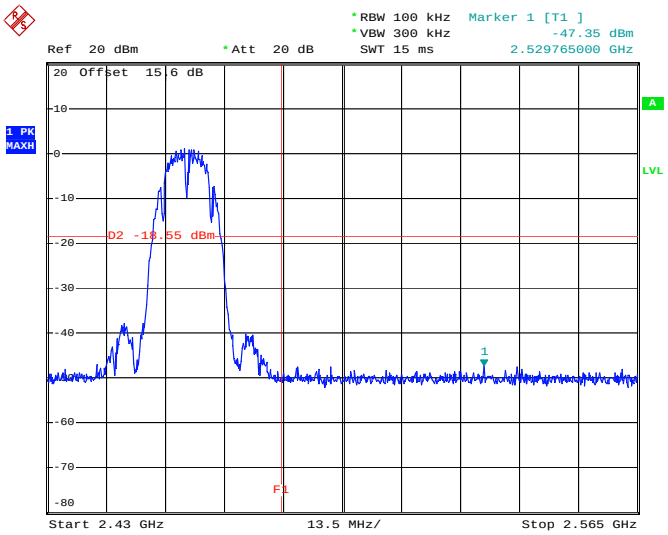
Test Mode :	802.11b	**Temperature :**	23~24℃
Test Band :	Low and High	**Relative Humidity :**	47~48%
Test Channel :	01 and 11	**Test Engineer :**	Lizy Li

Low Band Edge Plot on 802.11b Channel 01



Date: 23.APR.2013 19:37:40

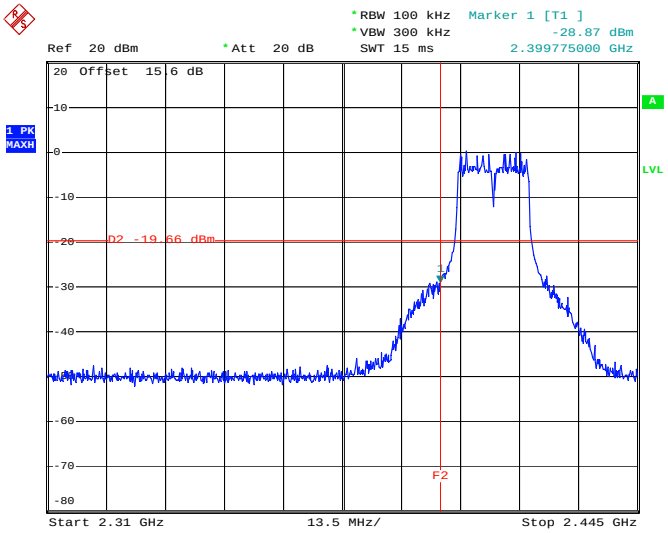
High Band Edge Plot on 802.11b Channel 11



Date: 23.APR.2013 19:45:24

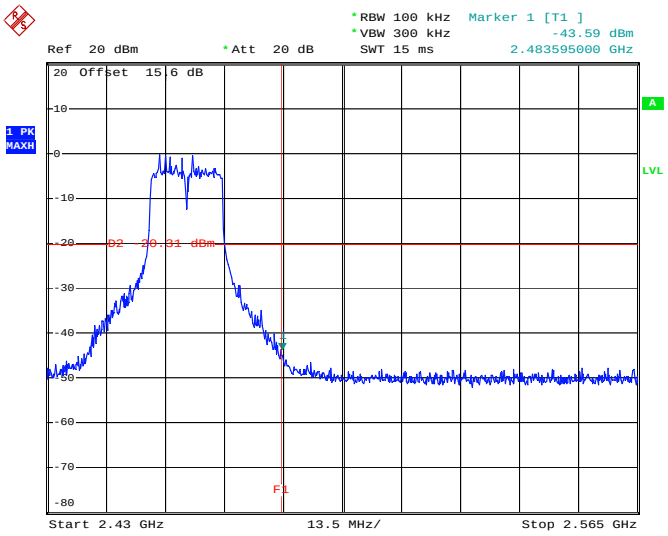
Test Mode :	802.11g	Temperature :	23~24℃
Test Band :	Low and High	Relative Humidity :	47~48%
Test Channel :	01 and 11	Test Engineer :	Lizy Li

Low Band Edge Plot on 802.11g Channel 01



Date: 23.APR.2013 19:51:06

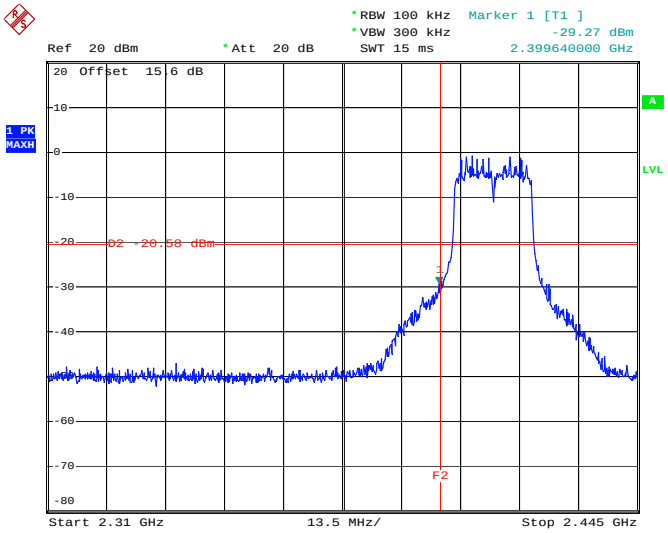
High Band Edge Plot on 802.11g Channel 11



Date: 23.APR.2013 20:05:11

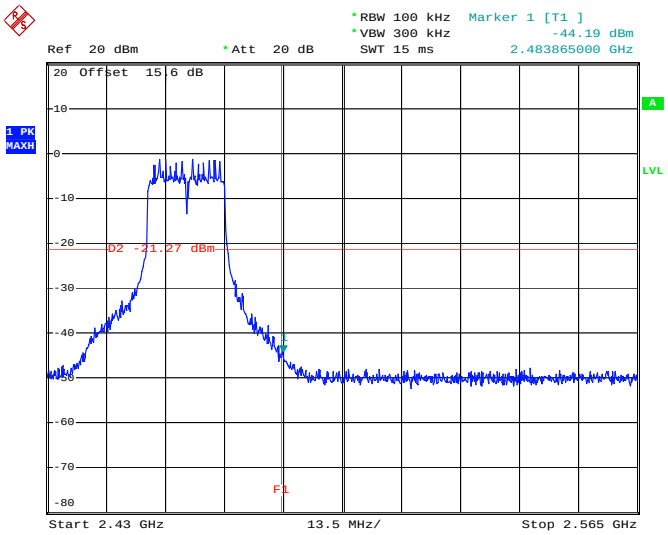
Test Mode :	802.11n HT20	Temperature :	23~24℃
Test Band :	Low and High	Relative Humidity :	47~48%
Test Channel :	01 and 11	Test Engineer :	Lizy Li

Low Band Edge Plot on 802.11n HT20 Channel 01



Date: 23.APR.2013 20:09:23

High Band Edge Plot on 802.11n HT20 Channel 11



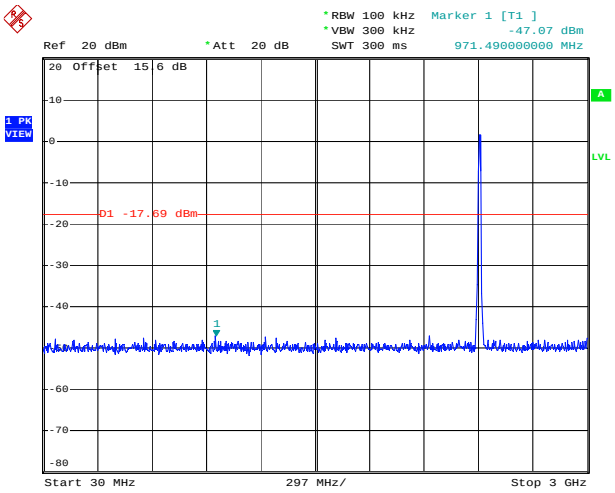
Date: 23.APR.2013 20:16:19

3.4.6 Test Plots of Spurious Emission

Test Mode :	802.11b	**Temperature :**	23~24℃
Test Band :	30MHz-3GHz and 2G-25GHz	**Relative Humidity :**	47~48%
Test Channel :	01, 06, 11	**Test Engineer :**	Lizy Li

802.11b 30 MHz~3 GHz

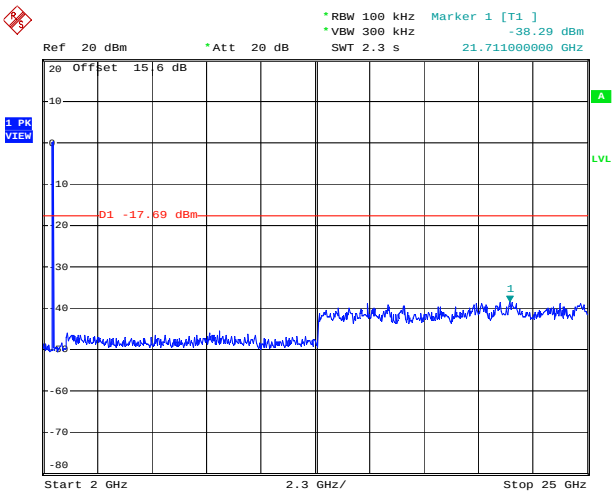
Conducted Spurious Emission Plot on Channel 01



Date: 23.APR.2013 19:37:59

802.11b 2 GHz~25 GHz

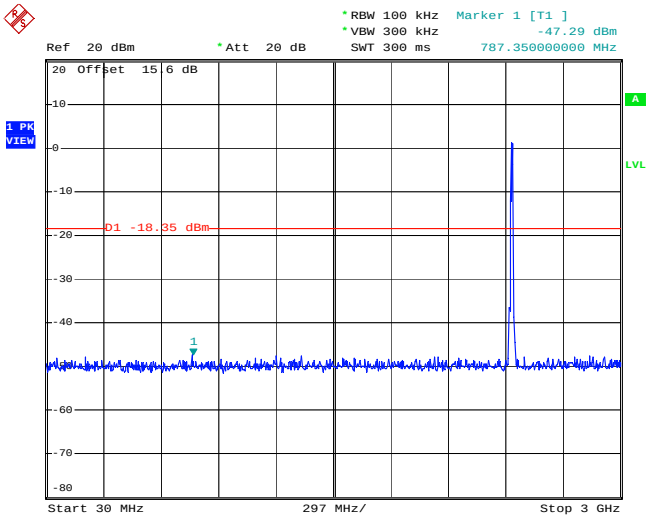
Conducted Spurious Emission Plot on Channel 01



Date: 23.APR.2013 19:38:18

802.11b 30 MHz~3 GHz

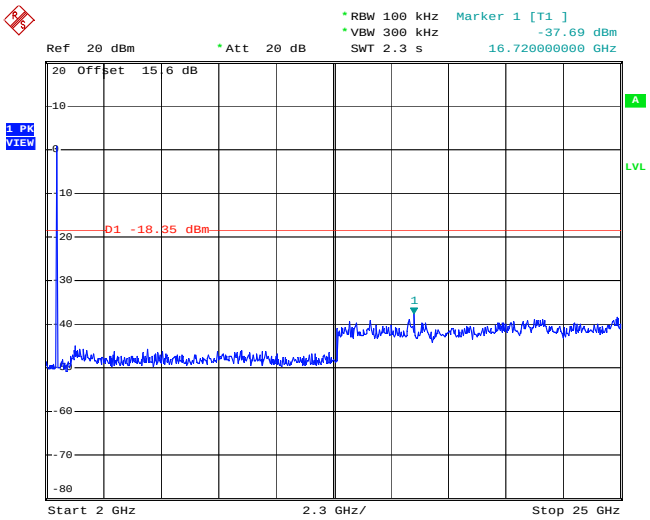
Conducted Spurious Emission Plot on Channel 06



Date: 23.APR.2013 19:41:59

802.11b 2 GHz~25 GHz

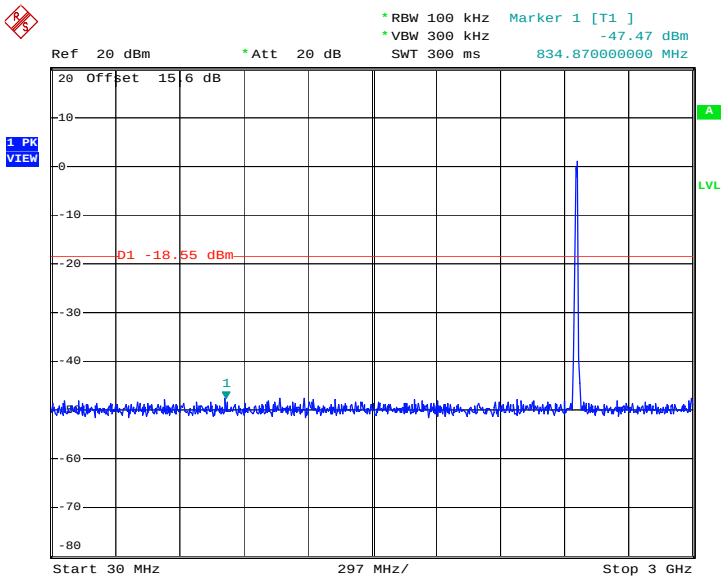
Conducted Spurious Emission Plot on Channel 06



Date: 23.APR.2013 19:42:19

802.11b 30 MHz~3 GHz

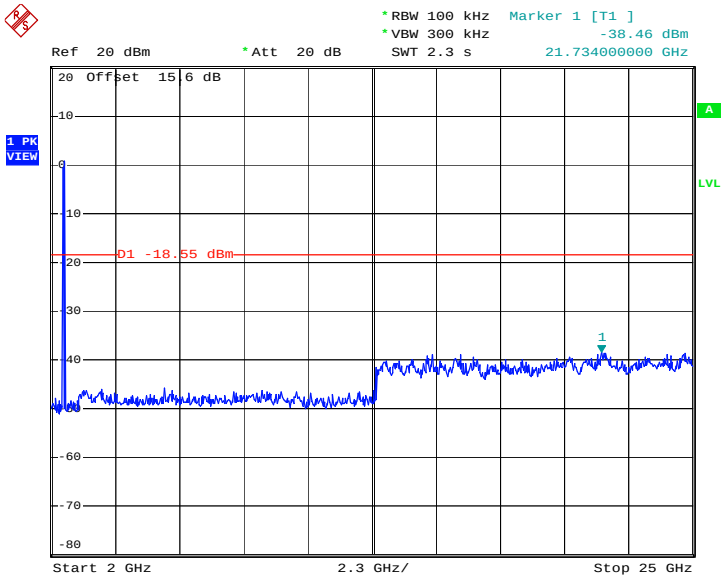
Conducted Spurious Emission Plot on Channel 11



Date: 23.APR.2013 19:45:44

802.11b 2 GHz~25 GHz

Conducted Spurious Emission Plot on Channel 11

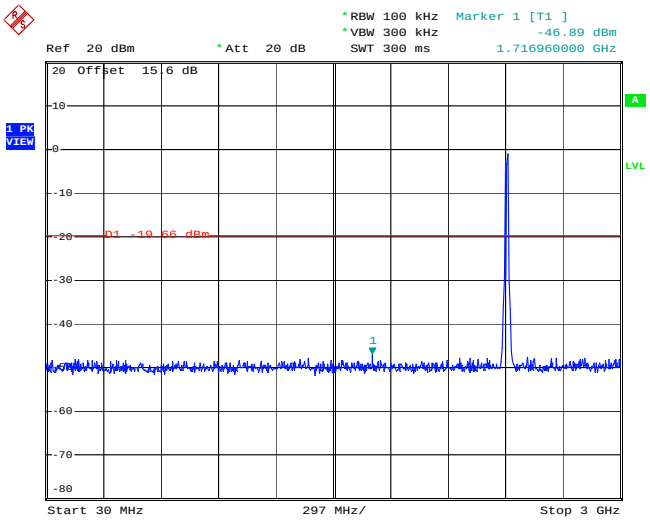


Date: 23.APR.2013 19:46:04

Test Mode :	802.11g	**Temperature :**	23~24℃
Test Band :	30MHz-3GHz and 2G-25GHz	**Relative Humidity :**	47~48%
Test Channel :	01, 06, 11	**Test Engineer :**	Lizy Li

802.11g 30 MHz~3 GHz

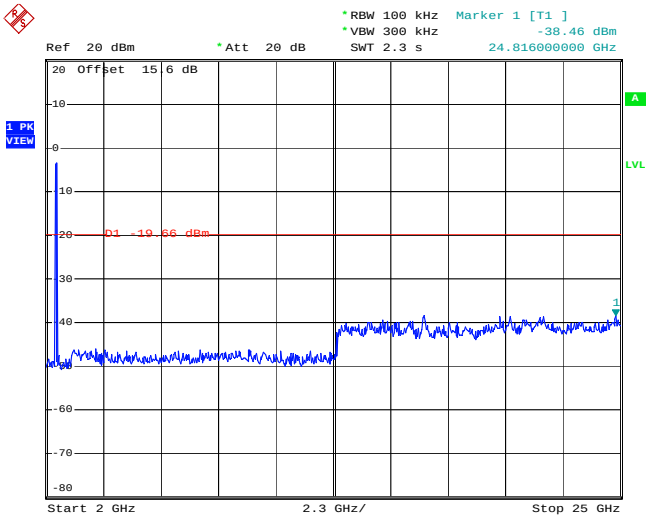
Conducted Spurious Emission Plot on Channel 01



Date: 23.APR.2013 19:51:26

802.11g 2 GHz~25 GHz

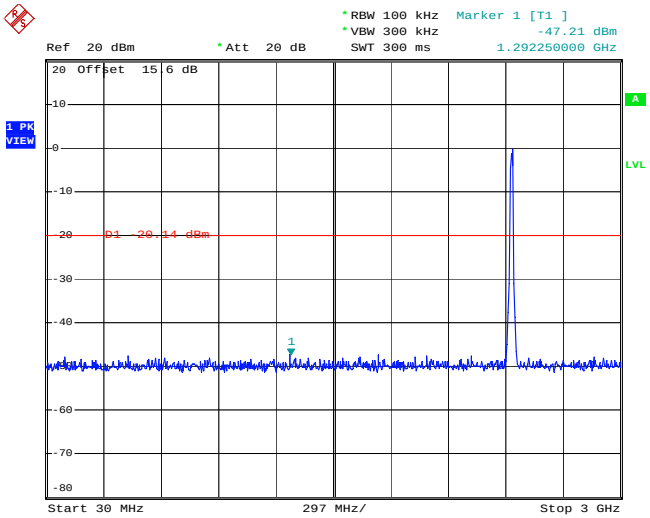
Conducted Spurious Emission Plot on Channel 01



Date: 23.APR.2013 19:51:46

802.11g 30 MHz~3 GHz

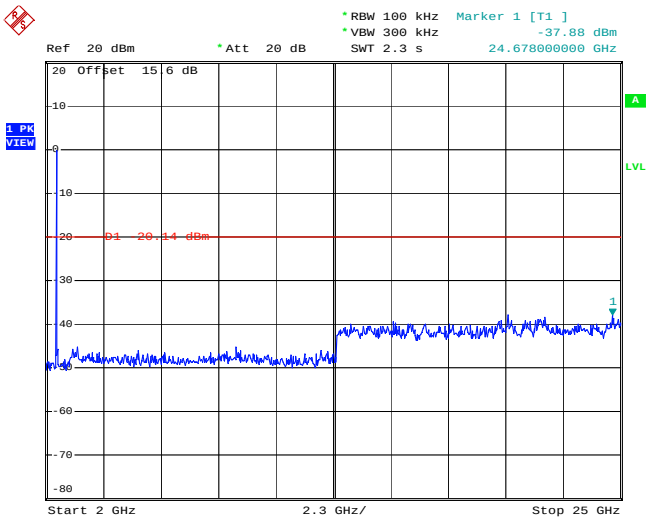
Conducted Spurious Emission Plot on Channel 06



Date: 23.APR.2013 20:02:36

802.11g 2 GHz~25 GHz

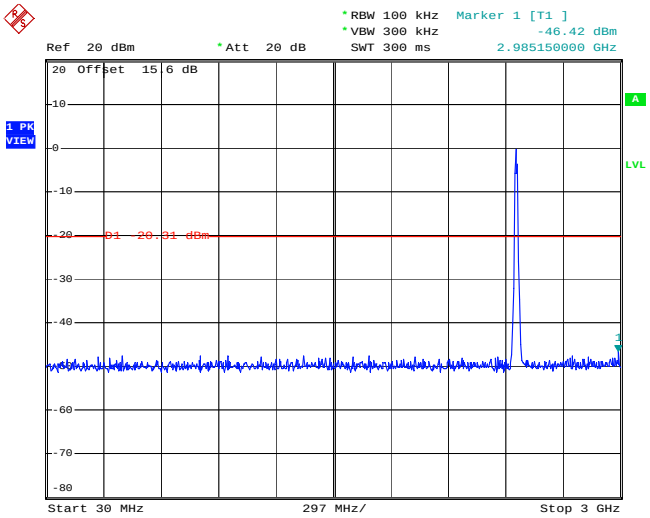
Conducted Spurious Emission Plot on Channel 06



Date: 23.APR.2013 20:02:55

802.11g 30 MHz~3 GHz

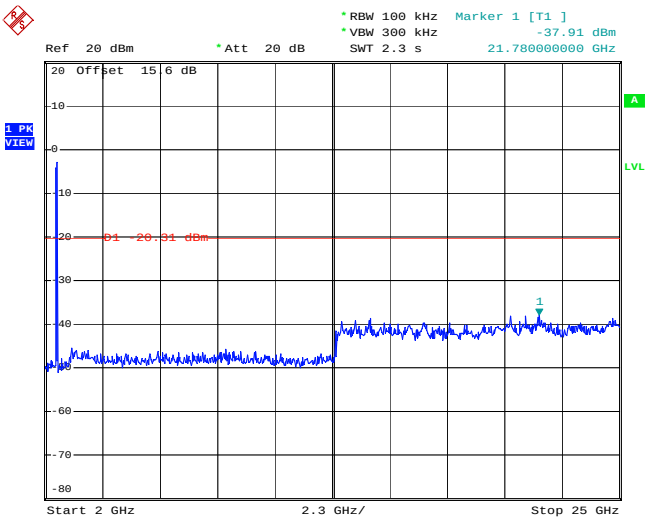
Conducted Spurious Emission Plot on Channel 11



Date: 23.APR.2013 20:05:31

802.11g 2 GHz~25 GHz

Conducted Spurious Emission Plot on Channel 11

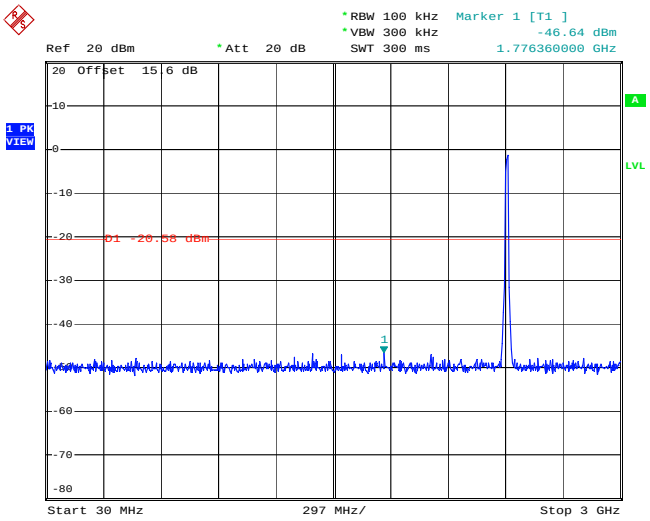


Date: 23.APR.2013 20:05:51

Test Mode :	802.11n HT20	**Temperature :**	23~24℃
Test Band :	30MHz-3GHz and 2G-25GHz	**Relative Humidity :**	47~48%
Test Channel :	01, 06, 11	**Test Engineer :**	Lizy Li

802.11n HT20 30 MHz~3 GHz

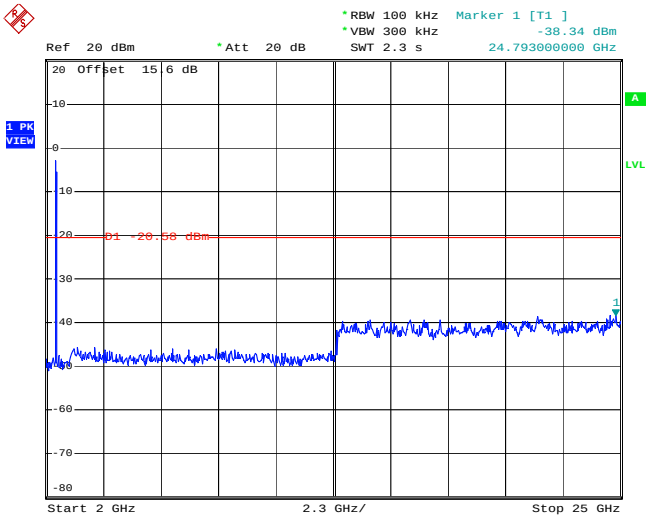
Conducted Spurious Emission Plot on Channel 01



Date: 23.APR.2013 20:09:44

802.11n HT20 2 GHz~25 GHz

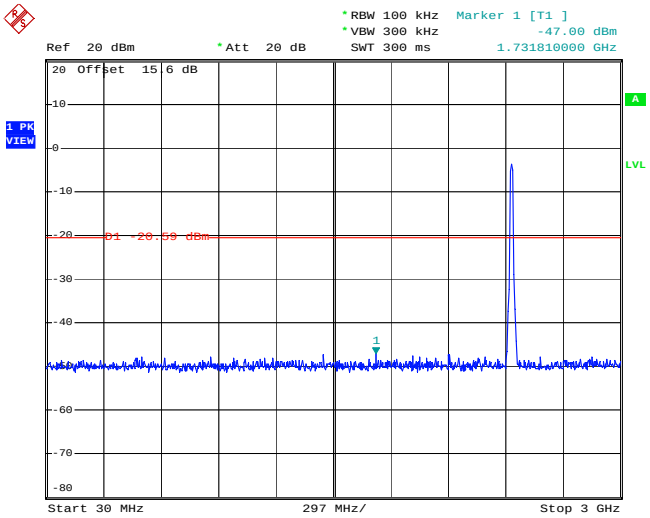
Conducted Spurious Emission Plot on Channel 01



Date: 23.APR.2013 20:10:03

802.11n HT20 30 MHz~3 GHz

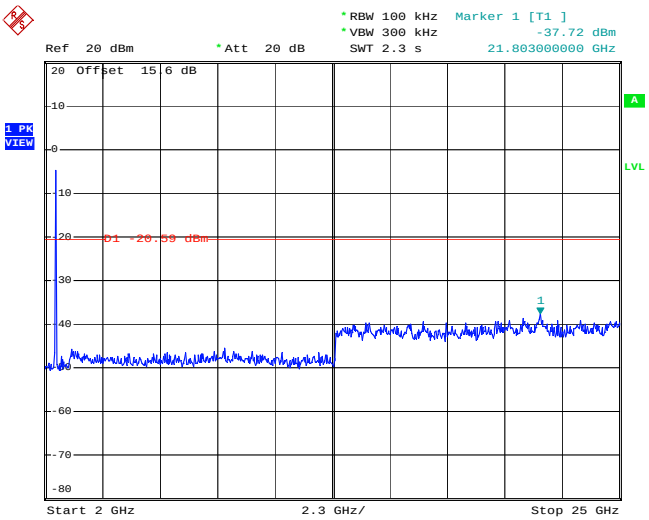
Conducted Spurious Emission Plot on Channel 06



Date: 23.APR.2013 20:14:03

802.11n HT20 2 GHz~25 GHz

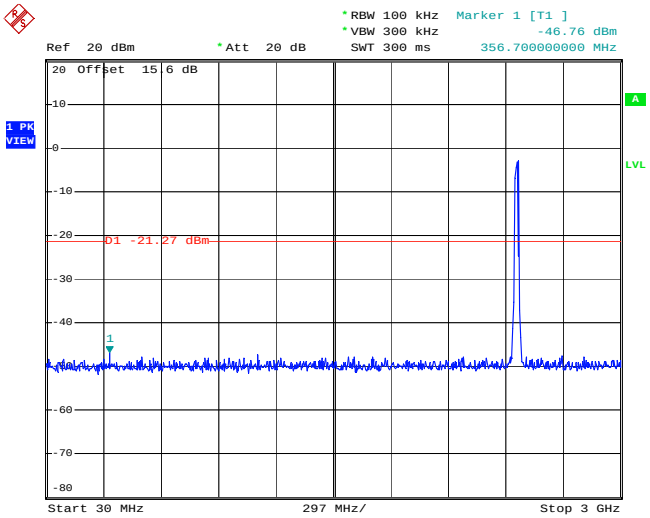
Conducted Spurious Emission Plot on Channel 06



Date: 23.APR.2013 20:14:22

802.11n HT20 30 MHz~3 GHz

Conducted Spurious Emission Plot on Channel 11



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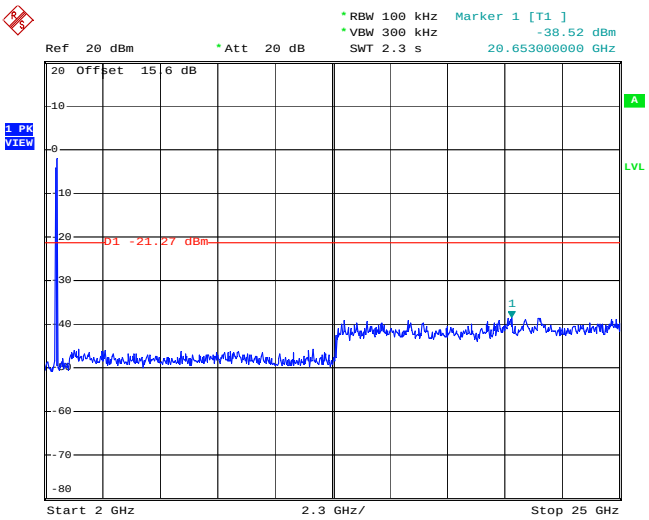
802.11n HT20 2 GHz~25 GHz

Conducted Spurious Emission Plot on Channel 11



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3.5 Radiated Band Edges and Spurious Emission Measurement

3.5.1 Limit of Radiated Band Edges and Spurious Emission

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

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

3.5.2 Measuring Instruments

See list of measuring instruments of this test report.

3.5.3 Test Procedures

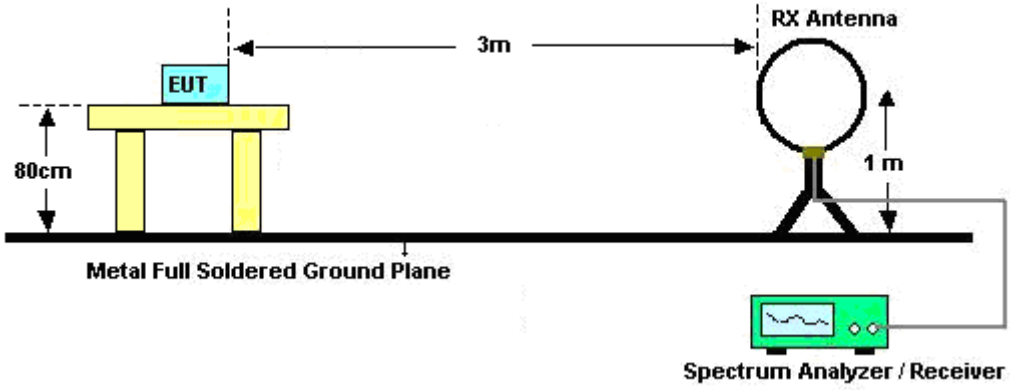
1. The testing follows the guidelines in ANSI C63. 10-2009
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
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 ≥ 1 GHz for peak measurement.
   For average measurement:
   - VBW = 10 Hz, when duty cycle is no less than 98 percent.
   - VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

Band	Duty Cycle(%)	T(us)	1/T(KHz)	VBW Setting
802.11b	100.00	-	-	10Hz
802.11g	98.57	-	-	10Hz
2.4G 802.11n HT20	98.37	-	-	10Hz

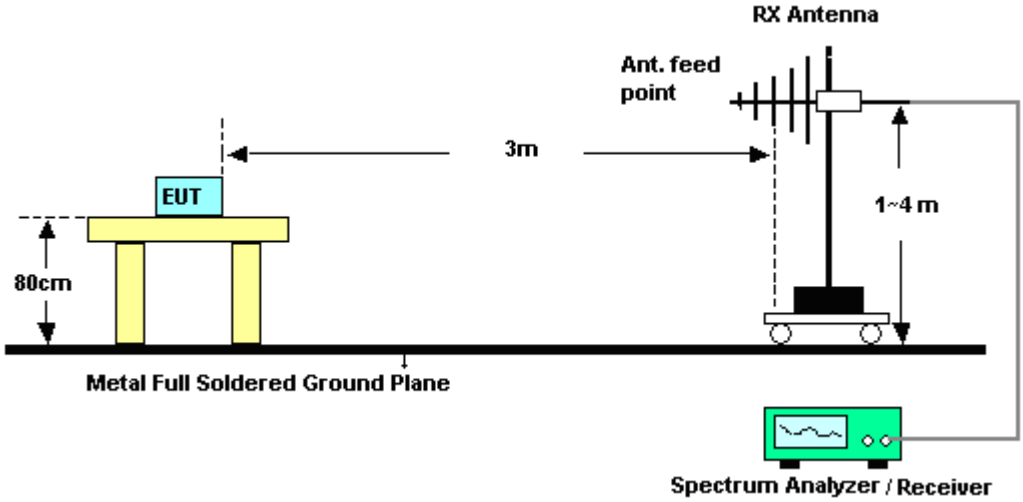
Note: For average measurement with duty cycle < 98%, use reduced VBW measurement method 4.2.3.2.3 in ANSI C63.10.

3.5.4 Test Setup

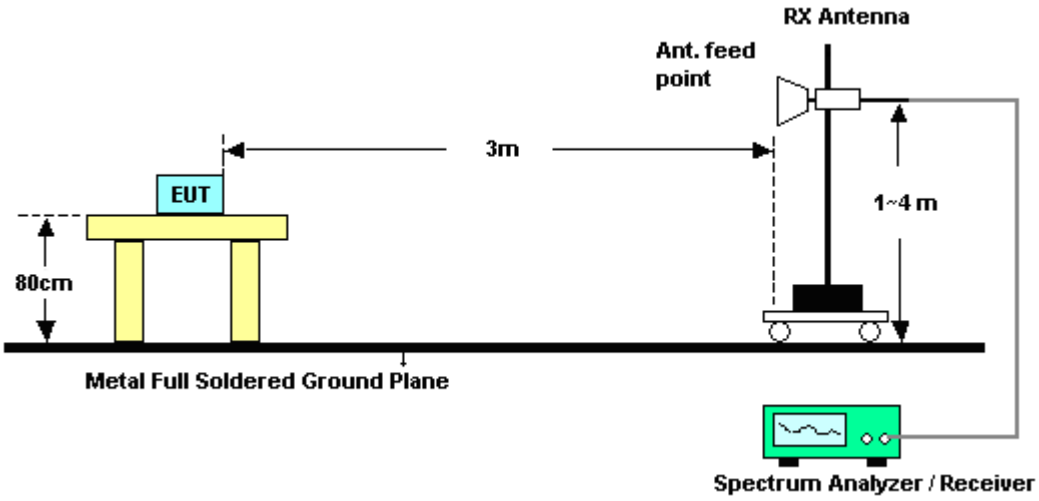
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



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

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

3.5.6 Test Result of Radiated Band Edges

Test Mode :	802.11b	**Temperature :**	23~24℃
Test Band :	Low	**Relative Humidity :**	43~44%
Test Channel :	01	**Test Engineer :**	Stone Gu

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2384.7	50.75	-23.25	74	47.34	32.83	2.09	31.51	160	56	Peak
2384.52	38.24	-15.76	54	34.83	32.83	2.09	31.51	160	56	Average

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2385.96	49.63	-24.37	74	46.17	32.86	2.11	31.51	193	119	Peak
2387.4	36.7	-17.3	54	33.24	32.86	2.11	31.51	193	119	Average

Test Mode :	802.11b	**Temperature :**	23~24℃
Test Band :	High	**Relative Humidity :**	43~44%
Test Channel :	11	**Test Engineer :**	Stone Gu

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2487.67	56.33	-17.67	74	51.83	33.05	2.96	31.51	102	48	Peak
2487.34	46.87	-7.13	54	42.41	33.01	2.96	31.51	102	49	Average

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2486.68	53.45	-20.55	74	48.99	33.01	2.96	31.51	118	115	Peak
2487.37	42.94	-11.06	54	38.48	33.01	2.96	31.51	189	115	Average

Test Mode :	802.11g	**Temperature :**	23~24℃
Test Band :	Low	**Relative Humidity :**	43~44%
Test Channel :	01	**Test Engineer :**	Stone Gu

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2390	70.47	-3.53	74	67.01	32.86	2.11	31.51	193	42	Peak
2390	50.61	-3.39	54	47.15	32.86	2.11	31.51	193	42	Average

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2390	68.14	-5.86	74	64.68	32.86	2.11	31.51	186	293	Peak
2390	49.27	-4.73	54	45.81	32.86	2.11	31.51	186	293	Average

Test Mode :	802.11g	**Temperature :**	23~24℃
Test Band :	High	**Relative Humidity :**	43~44%
Test Channel :	11	**Test Engineer :**	Stone Gu

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2484.19	70.01	-3.99	74	66.35	33.01	2.16	31.51	182	68	Peak
2483.5	49.52	-4.48	54	45.86	33.01	2.16	31.51	182	68	Average

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2483.71	64.48	-9.52	74	60.82	33.01	2.16	31.51	188	75	Peak
2483.5	45.59	-8.41	54	41.93	33.01	2.16	31.51	188	75	Average

Test Mode :	802.11n HT20	**Temperature :**	23~24℃
Test Band :	Low	**Relative Humidity :**	43~44%
Test Channel :	01	**Test Engineer :**	Stone Gu

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2390	71.52	-2.48	74	67.26	32.86	2.91	31.51	100	52	Peak
2390	50.21	-3.79	54	45.95	32.86	2.91	31.51	106	52	Average

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2390	67.68	-6.32	74	63.42	32.86	2.91	31.51	166	94	Peak
2390	49.37	-4.63	54	45.91	32.86	2.11	31.51	117	298	Average

Test Mode :	802.11n HT20	**Temperature :**	23~24℃
Test Band :	High	**Relative Humidity :**	43~44%
Test Channel :	11	**Test Engineer :**	Stone Gu

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2483.5	68.92	-5.08	74	64.46	33.01	2.96	31.51	102	51	Peak
2483.5	49.44	-4.56	54	44.98	33.01	2.96	31.51	103	52	Average

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2483.5	62.63	-11.37	74	58.17	33.01	2.96	31.51	128	81	Peak
2483.5	45.02	-8.98	54	40.56	33.01	2.96	31.51	128	81	Average

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

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

Test Mode :	802.11b	**Temperature :**	23~24℃
Test Channel :	01	**Relative Humidity :**	43~44%
Test Engineer :	Stone Gu	**Polarization :**	Horizontal
Remark :	1. 2412 MHz is fundamental signal which can be ignored. 2. 2397.84MHz and 7236MHz are not within a restricted band, and their limit line is 20dB below the highest emission level. For example, 106.95dBuV/m - 20dB = 86.95dBuV/m. 3. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2397.84	67.27	-19.68	86.95	63.81	32.86	2.11	31.51	190	59	Peak
2412	106.95	-	-	103.45	32.89	2.12	31.51	190	59	Peak
2412	102.06	-	-	98.56	32.89	2.12	31.51	190	59	Average
4824	47.45	-26.55	74	40.72	35.17	3.09	31.53	120	354	Peak
7236	49.35	-37.6	86.95	40.88	36.18	3.24	30.95	120	32	Peak

Test Mode :	802.11b	**Temperature :**	23~24℃
Test Channel :	01	**Relative Humidity :**	43~44%
Test Engineer :	Stone Gu	**Polarization :**	Vertical
Remark :	1. 2412 MHz is fundamental signal which can be ignored. 2. 2396.94MHz and 7236MHz are not within a restricted band, and their limit line is 20dB below the highest emission level. 3. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2396.94	63.17	-20.81	83.98	59.71	32.86	2.11	31.51	187	120	Peak
2412	103.98	-	-	100.48	32.89	2.12	31.51	187	120	Peak
2412	99.08	-	-	95.58	32.89	2.12	31.51	187	120	Average
4824	48.42	-25.58	74	41.69	35.17	3.09	31.53	100	3	Peak
7236	48.9	-35.08	83.98	40.43	36.18	3.24	30.95	100	324	Peak

Test Mode :	802.11b	**Temperature :**	23~24℃
Test Channel :	06	**Relative Humidity :**	43~44%
Test Engineer :	Stone Gu	**Polarization :**	Horizontal
Remark :	1. 2437 MHz is fundamental signal which can be ignored. 2. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2437	106.32	-	-	102.74	32.95	2.14	31.51	186	60	Peak
2437	101.36	-	-	97.78	32.95	2.14	31.51	186	60	Average
4874	48.28	-25.72	74	41.5	35.18	3.12	31.52	124	67	Peak
7311	48.97	-25.03	74	40.5	36.2	3.21	30.94	130	299	Peak

Test Mode :	802.11b	**Temperature :**	23~24℃
Test Channel :	06	**Relative Humidity :**	43~44%
Test Engineer :	Stone Gu	**Polarization :**	Vertical
Remark :	1. 2437 MHz is fundamental signal which can be ignored. 2. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2437	104.8	-	-	101.22	32.95	2.14	31.51	159	120	Peak
2437	99.87	-	-	96.29	32.95	2.14	31.51	159	120	Average
4874	47.39	-26.61	74	40.61	35.18	3.12	31.52	120	54	Peak
7312	48.38	-25.62	74	39.91	36.2	3.21	30.94	100	0	Peak

Test Mode :	802.11b	**Temperature :**	23~24℃
Test Channel :	11	**Relative Humidity :**	43~44%
Test Engineer :	Stone Gu	**Polarization :**	Horizontal
Remark :	1. 2462 MHz is fundamental signal which can be ignored. 2. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2462	109.8	-	-	105.39	32.98	2.94	31.51	102	49	Peak
2462	104.47	-	-	100.06	32.98	2.94	31.51	102	49	Average
4924	49.97	-24.03	74	42.01	35.19	4.28	31.51	200	0	Peak
7386	50.38	-23.62	74	39.56	36.24	5.51	30.93	100	0	Peak

Test Mode :	802.11b	**Temperature :**	23~24℃
Test Channel :	11	**Relative Humidity :**	43~44%
Test Engineer :	Stone Gu	**Polarization :**	Vertical
Remark :	1. 2462 MHz is fundamental signal which can be ignored. 2. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2462	104.72	-	-	100.31	32.98	2.94	31.51	188	114	Peak
2462	99.4	-	-	94.99	32.98	2.94	31.51	188	114	Average
4924	50.6	-23.4	74	42.64	35.19	4.28	31.51	200	0	Peak
7386	50.22	-23.78	74	39.4	36.24	5.51	30.93	200	0	Peak

Test Mode :	802.11g	**Temperature :**	23~24℃
Test Channel :	01	**Relative Humidity :**	43~44%
Test Engineer :	Stone Gu	**Polarization :**	Horizontal
Remark :	1. 2412 MHz is fundamental signal which can be ignored. 2. 2399MHz and 7236MHz are not within a restricted band, and their limit line is 20dB below the highest emission level. 3. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2399	82.29	-5.81	88.1	78.83	32.86	2.11	31.51	104	61	Peak
2412	108.1	-	-	104.6	32.89	2.12	31.51	104	61	Peak
2412	96.78	-	-	93.28	32.89	2.12	31.51	104	61	Average
4824	47.73	-26.27	74	41	35.17	3.09	31.53	123	24	Peak
7236	49.58	-38.52	88.1	41.11	36.18	3.24	30.95	106	49	Peak

Test Mode :	802.11g	**Temperature :**	23~24℃
Test Channel :	01	**Relative Humidity :**	43~44%
Test Engineer :	Stone Gu	**Polarization :**	Vertical
Remark :	1. 2412 MHz is fundamental signal which can be ignored. 2. 2399MHz and 7236MHz are not within a restricted band, and their limit line is 20dB below the highest emission level. 3. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2399	79.96	-5.37	85.33	76.5	32.86	2.11	31.51	158	119	Peak
2412	105.33	-	-	101.83	32.89	2.12	31.51	158	119	Peak
2412	93.49	-	-	89.99	32.89	2.12	31.51	158	119	Average
4824	47.67	-26.33	74	40.94	35.17	3.09	31.53	139	67	Peak
7236	49.19	-36.14	85.33	40.72	36.18	3.24	30.95	100	237	Peak

Test Mode :	802.11g	**Temperature :**	23~24℃
Test Channel :	06	**Relative Humidity :**	43~44%
Test Engineer :	Stone Gu	**Polarization :**	Horizontal
Remark :	1. 2437 MHz is fundamental signal which can be ignored. 2. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2437	107.43	-	-	103.85	32.95	2.14	31.51	101	59	Peak
2437	95.87	-	-	92.29	32.95	2.14	31.51	101	59	Average
4874	47.49	-26.51	74	40.71	35.18	3.12	31.52	120	36	Peak
7311	48.38	-25.62	74	39.91	36.2	3.21	30.94	106	199	Peak

Test Mode :	802.11g	**Temperature :**	23~24℃
Test Channel :	06	**Relative Humidity :**	43~44%
Test Engineer :	Stone Gu	**Polarization :**	Vertical
Remark :	1. 2437 MHz is fundamental signal which can be ignored. 2. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2437	106.3	-	-	102.72	32.95	2.14	31.51	156	122	Peak
2437	94.84	-	-	91.26	32.95	2.14	31.51	156	122	Average
4874	47.24	-26.76	74	40.46	35.18	3.12	31.52	137	46	Peak
7311	48.98	-25.02	74	40.51	36.2	3.21	30.94	100	267	Peak

Test Mode :	802.11g	**Temperature :**	23~24℃
Test Channel :	11	**Relative Humidity :**	43~44%
Test Engineer :	Stone Gu	**Polarization :**	Horizontal
Remark :	1. 2462 MHz is fundamental signal which can be ignored. 2. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2462	107.03	-	-	103.41	32.98	2.15	31.51	101	68	Peak
2462	95.07	-	-	91.45	32.98	2.15	31.51	101	68	Average
4924	47.86	-26.14	74	41.03	35.19	3.15	31.51	100	2	Peak
7386	50.5	-23.5	74	42	36.24	3.19	30.93	141	257	Peak

Test Mode :	802.11g	**Temperature :**	23~24℃
Test Channel :	11	**Relative Humidity :**	43~44%
Test Engineer :	Stone Gu	**Polarization :**	Vertical
Remark :	1. 2462 MHz is fundamental signal which can be ignored. 2. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2462	104.45	-	-	100.83	32.98	2.15	31.51	127	102	Peak
2462	92.98	-	-	89.36	32.98	2.15	31.51	127	102	Average
4924	48.03	-25.97	74	41.2	35.19	3.15	31.51	125	48	Peak
7386	49.03	-24.97	74	40.53	36.24	3.19	30.93	120	326	Peak

Test Mode :	802.11n HT20	**Temperature :**	23~24℃
Test Channel :	01	**Relative Humidity :**	43~44%
Test Engineer :	Stone Gu	**Polarization :**	Horizontal
Remark :	1. 2412 MHz is fundamental signal which can be ignored. 2. 2399MHz and 7236MHz are not within a restricted band, and their limit line is 20dB below the highest emission level. 3. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
57.59	18.71	-21.29	40	46.07	5.75	0.47	33.58	-	-	Peak
106.01	19.35	-24.15	43.5	41.08	11.29	0.59	33.61	-	-	Peak
204.96	24.12	-19.38	43.5	47.63	9.21	0.83	33.55	-	-	Peak
230.1	26.11	-19.89	46	47.81	10.9	0.88	33.48	-	-	Peak
298.27	26.66	-19.34	46	46.06	12.99	0.99	33.38	100	0	Peak
948.76	26.16	-19.84	46	36.12	20.73	1.75	32.44	-	-	Peak
2399	80.27	-4.91	85.18	76.01	32.86	2.91	31.51	106	52	Peak
2412	105.18	-	-	100.89	32.89	2.91	31.51	106	52	Peak
2412	93.12	-	-	88.83	32.89	2.91	31.51	106	52	Average
4874	47.95	-26.05	74	41.17	35.18	3.12	31.52	127	55	Peak
7236	48.88	-36.3	85.18	40.41	36.18	3.24	30.95	100	0	Peak

Test Mode :	802.11n HT20	**Temperature :**	23~24℃
Test Channel :	01	**Relative Humidity :**	43~44%
Test Engineer :	Stone Gu	**Polarization :**	Vertical
Remark :	1. 2412 MHz is fundamental signal which can be ignored. 2. 2399MHz and 7236MHz are not within a restricted band, and their limit line is 20dB below the highest emission level. 3. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
57.59	19.71	-20.29	40	47.07	5.75	0.47	33.58	-	-	Peak
129.01	20.91	-22.59	43.5	42.12	11.71	0.67	33.59	-	-	Peak
203.52	18.64	-24.86	43.5	42.2	9.16	0.83	33.55	-	-	Peak
226.1	22.82	-23.18	46	44.86	10.59	0.87	33.5	-	-	Peak
238.31	21.97	-24.03	46	43.07	11.46	0.9	33.46	-	-	Peak
942.13	25.96	-20.04	46	35.95	20.7	1.75	32.44	100	0	Peak
2399	78.47	-5.34	83.81	74.21	32.86	2.91	31.51	166	94	Peak
2412	103.81	-	-	99.52	32.89	2.91	31.51	166	94	Peak
2412	91.75	-	-	87.46	32.89	2.91	31.51	166	94	Average
4824	47.11	-26.89	74	40.38	35.17	3.09	31.53	124	332	Peak
7236	49.18	-34.63	83.81	40.71	36.18	3.24	30.95	123	187	Peak

Test Mode :	802.11n HT20	**Temperature :**	23~24℃
Test Channel :	06	**Relative Humidity :**	43~44%
Test Engineer :	Stone Gu	**Polarization :**	Horizontal
Remark :	1. 2437 MHz is fundamental signal which can be ignored. 2. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2437	108.35	-	-	103.98	32.95	2.93	31.51	105	56	Peak
2437	96.52	-	-	92.15	32.95	2.93	31.51	105	56	Average
4874	49.82	-24.18	74	41.9	35.18	4.26	31.52	200	0	Peak
7312	50.54	-23.46	74	39.82	36.2	5.46	30.94	200	0	Peak

Test Mode :	802.11n HT20	**Temperature :**	23~24℃
Test Channel :	06	**Relative Humidity :**	43~44%
Test Engineer :	Stone Gu	**Polarization :**	Vertical
Remark :	1. 2437 MHz is fundamental signal which can be ignored. 2. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2437	104.29	-	-	99.92	32.95	2.93	31.51	116	316	Peak
2437	92.06	-	-	87.69	32.95	2.93	31.51	116	316	Average
4874	49.83	-24.17	74	41.91	35.18	4.26	31.52	100	0	Peak
7312	50.42	-23.58	74	39.7	36.2	5.46	30.94	100	0	Peak

Test Mode :	802.11n HT20	**Temperature :**	23~24℃
Test Channel :	11	**Relative Humidity :**	43~44%
Test Engineer :	Stone Gu	**Polarization :**	Horizontal
Remark :	1. 2462 MHz is fundamental signal which can be ignored. 2. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2462	106.56	-	-	102.15	32.98	2.94	31.51	103	51	Peak
2462	94.62	-	-	90.21	32.98	2.94	31.51	103	51	Average
4924	50.07	-23.93	74	42.11	35.19	4.28	31.51	100	0	Peak
7386	50.26	-23.74	74	39.44	36.24	5.51	30.93	200	0	Peak

Test Mode :	802.11n HT20	**Temperature :**	23~24℃
Test Channel :	11	**Relative Humidity :**	43~44%
Test Engineer :	Stone Gu	**Polarization :**	Vertical
Remark :	1. 2462 MHz is fundamental signal which can be ignored. 2. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2462	101.67	-	-	97.26	32.98	2.94	31.51	128	81	Peak
2462	89.74	-	-	85.33	32.98	2.94	31.51	128	81	Average
4924	50.65	-23.35	74	42.69	35.19	4.28	31.51	100	0	Peak
7386	50.11	-23.89	74	39.29	36.24	5.51	30.93	200	0	Peak

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 (MHz)	Conducted Limit (dBuV)	
	Quasi-Peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

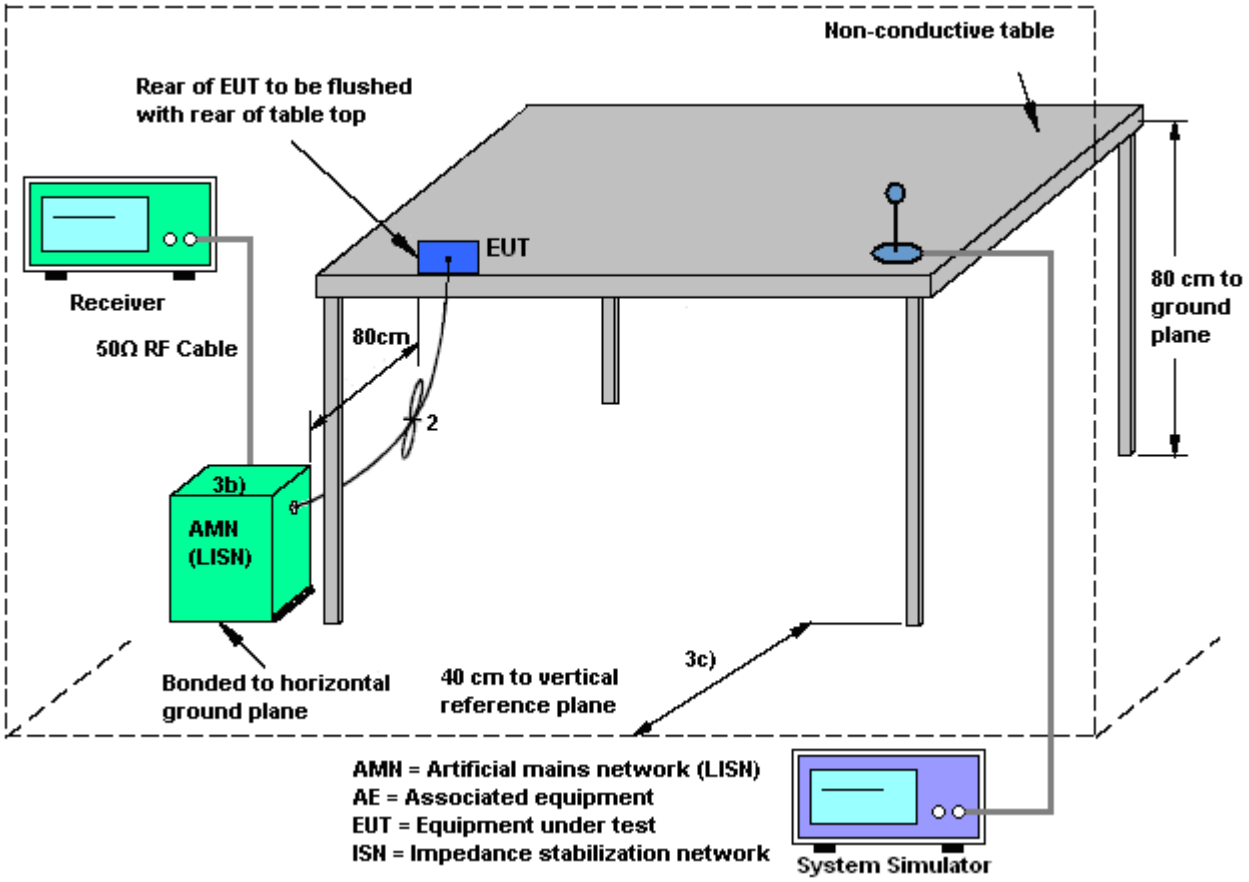
3.6.2 Measuring Instruments

See list of measuring instruments of this test report.

3.6.3 Test Procedures

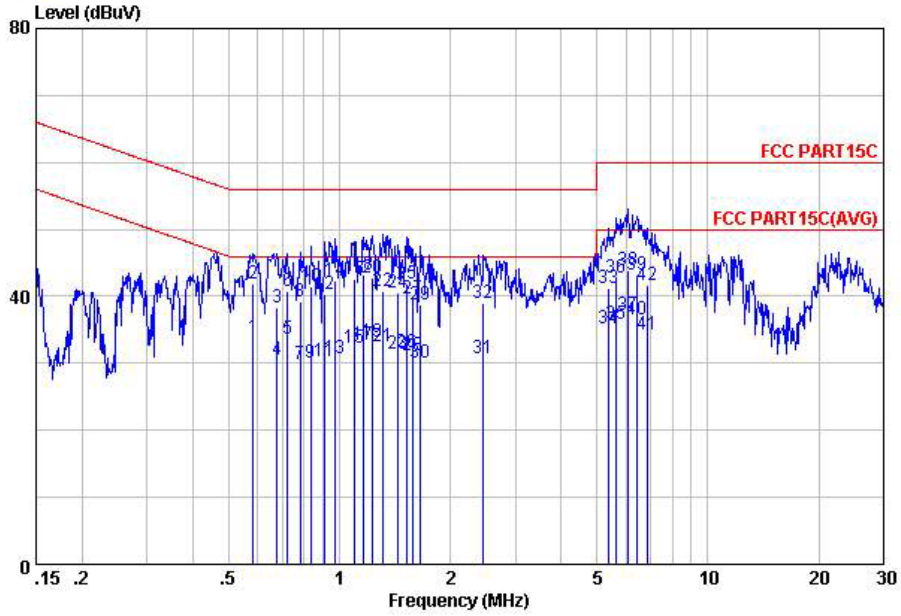
1. The testing follows the guidelines in ANSI C63.10-2009.
2. The EUT was placed 0.4 meter from the conducting wall of the shielding room, and it was kept at least 80 centimeters from any other grounded conducting surface.
3. Connect EUT to the power mains through a line impedance stabilization network (LISN).
4. All the support units are connecting to the other LISN.
5. The LISN provides 50 ohm coupling impedance for the measuring instrument.
6. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
7. Both sides of AC line were checked for maximum conducted interference.
8. The frequency range from 150 KHz to 30 MHz was searched.
9. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

3.6.4 Test Setup



3.6.5 Test Result of AC Conducted Emission

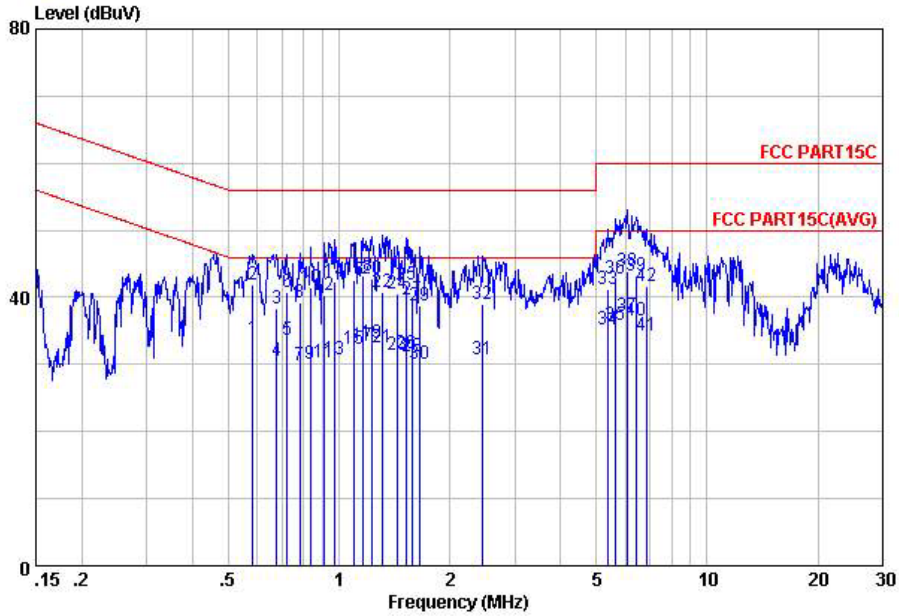
Test Mode :	Mode 1	**Temperature :**	19~20℃
Test Engineer :	Tom Wang	**Relative Humidity :**	39~40%
Test Voltage :	120Vac / 60Hz	**Phase :**	Line
Function Type :	GSM850 Idle + Bluetooth Link + WLAN Link + USB Cable (Charging from Adapter) + Earphone		
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : C001-KS
Condition: FCC PART15C LISN-L20130306 LINE
Project : (FR) 341002
mode : Mode 1

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.58	33.83	-12.17	46.00	23.00	0.20	10.63	Average
2	0.58	41.93	-14.07	56.00	31.10	0.20	10.63	QP
3	0.68	38.24	-17.76	56.00	27.40	0.20	10.64	QP
4	0.68	30.44	-15.56	46.00	19.60	0.20	10.64	Average
5	0.72	33.64	-12.36	46.00	22.81	0.19	10.64	Average
6	0.72	40.84	-15.16	56.00	30.01	0.19	10.64	QP
7	0.78	29.82	-16.18	46.00	19.01	0.17	10.64	Average
8	0.78	39.32	-16.68	56.00	28.51	0.17	10.64	QP
9	0.83	30.00	-16.00	46.00	19.20	0.15	10.65	Average
10	0.83	41.40	-14.60	56.00	30.60	0.15	10.65	QP
11	0.91	30.37	-15.63	46.00	19.60	0.12	10.65	Average
12	0.91	40.37	-15.63	56.00	29.60	0.12	10.65	QP
13	0.97	30.86	-15.14	46.00	20.10	0.11	10.65	Average
14	0.97	42.26	-13.74	56.00	31.50	0.11	10.65	QP
15	1.09	32.25	-13.75	46.00	21.50	0.10	10.65	Average
16	1.09	42.65	-13.35	56.00	31.90	0.10	10.65	QP
17	1.16	32.66	-13.34	46.00	21.90	0.10	10.66	Average
18	1.16	43.26	-12.74	56.00	32.50	0.10	10.66	QP
19	1.23	33.16	-12.84	46.00	22.40	0.10	10.66	Average
20	1.23	42.86	-13.14	56.00	32.10	0.10	10.66	QP
21	1.32	32.47	-13.53	46.00	21.70	0.10	10.67	Average
22	1.32	40.87	-15.13	56.00	30.10	0.10	10.67	QP
23	1.43	31.38	-14.62	46.00	20.60	0.10	10.68	Average
24	1.43	40.48	-15.52	56.00	29.70	0.10	10.68	QP
25	1.52	41.78	-14.22	56.00	31.00	0.10	10.68	QP
26	1.52	31.68	-14.32	46.00	20.90	0.10	10.68	Average
27	1.58	39.59	-16.41	56.00	28.80	0.10	10.69	QP

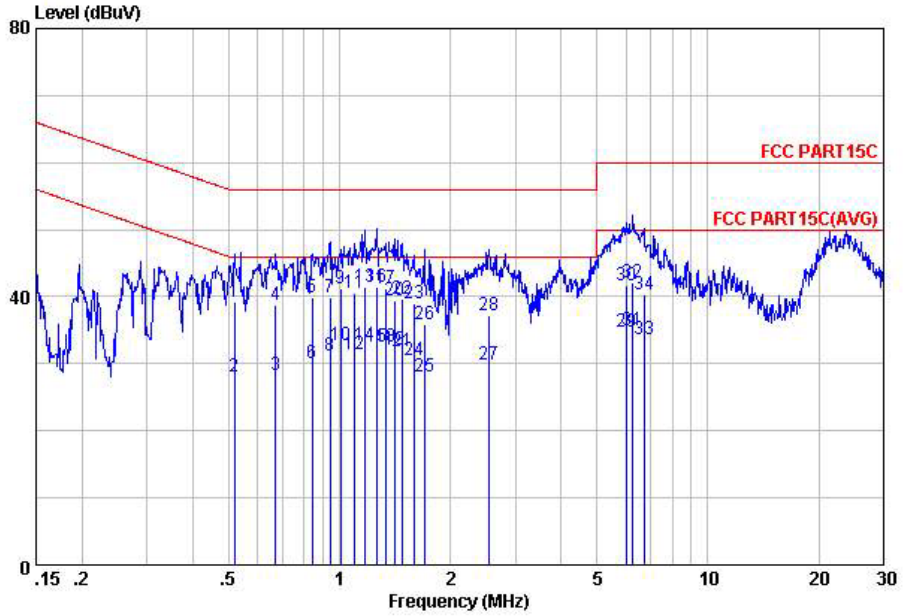
Test Mode :	Mode 1	**Temperature :**	19~20℃
Test Engineer :	Tom Wang	**Relative Humidity :**	39~40%
Test Voltage :	120Vac / 60Hz	**Phase :**	Line
Function Type :	GSM850 Idle + Bluetooth Link + WLAN Link + USB Cable (Charging from Adapter) + Earphone		
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : C001-KS
Condition: FCC PART15C LISN-L20130306 LINE
Project : (FR) 341002
mode : Mode 1

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
28	1.58	31.09	-14.91	46.00	20.30	0.10	10.69	Average
29	1.66	38.79	-17.21	56.00	28.00	0.10	10.69	QP
30	1.66	30.09	-15.91	46.00	19.30	0.10	10.69	Average
31	2.46	30.64	-15.36	46.00	19.80	0.11	10.73	Average
32	2.46	38.94	-17.06	56.00	28.10	0.11	10.73	QP
33	5.39	41.16	-18.84	60.00	30.10	0.20	10.86	QP
34	5.39	35.16	-14.84	50.00	24.10	0.20	10.86	Average
35	5.65	35.77	-14.23	50.00	24.70	0.20	10.87	Average
36	5.65	42.77	-17.23	60.00	31.70	0.20	10.87	QP
37	6.09	37.28	-12.72	50.00	26.20	0.20	10.88	Average
38	6.09	43.88	-16.12	60.00	32.80	0.20	10.88	QP
39	6.42	43.30	-16.70	60.00	32.20	0.20	10.90	QP
40	6.42	36.50	-13.50	50.00	25.40	0.20	10.90	Average
41	6.84	34.42	-15.58	50.00	23.30	0.20	10.92	Average
42	6.84	41.62	-18.38	60.00	30.50	0.20	10.92	QP

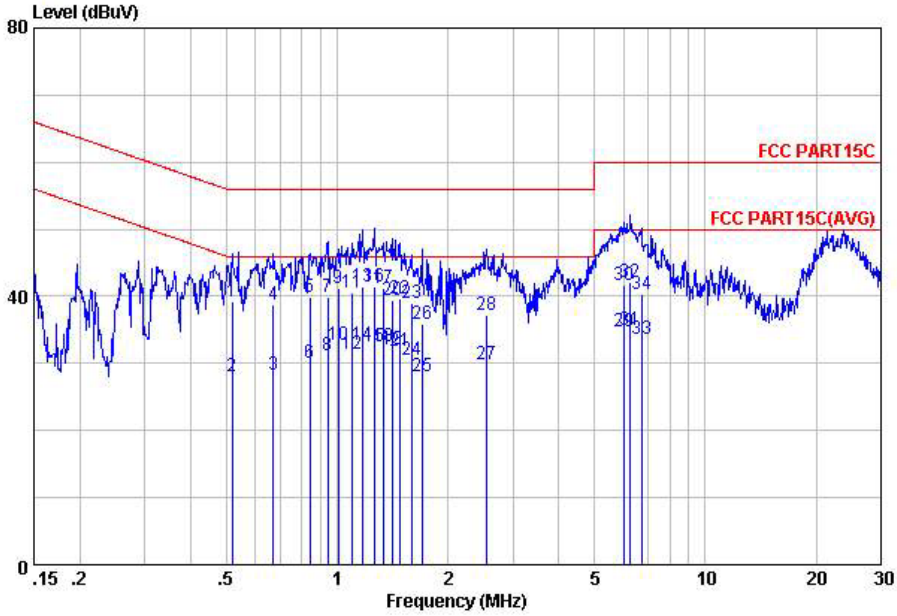
Test Mode :	Mode 1	**Temperature :**	19~20℃
Test Engineer :	Tom Wang	**Relative Humidity :**	39~40%
Test Voltage :	120Vac / 60Hz	**Phase :**	Neutral
Function Type :	GSM850 Idle + Bluetooth Link + WLAN Link + USB Cable (Charging from Adapter) + Earphone		
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : C001-KS
Condition: FCC PART15C LISN-N20130306 NEUTRAL
Project : (FR) 341002
mode : Mode 1

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.52	39.22	-16.78	56.00	28.30	0.29	10.63	QP
2	0.52	28.02	-17.98	46.00	17.10	0.29	10.63	Average
3	0.67	28.35	-17.65	46.00	17.50	0.21	10.64	Average
4	0.67	38.85	-17.15	56.00	28.00	0.21	10.64	QP
5	0.84	39.99	-16.01	56.00	29.19	0.15	10.65	QP
6	0.84	30.09	-15.91	46.00	19.29	0.15	10.65	Average
7	0.94	39.86	-16.14	56.00	29.10	0.11	10.65	QP
8	0.94	31.26	-14.74	46.00	20.50	0.11	10.65	Average
9	1.00	41.25	-14.75	56.00	30.50	0.10	10.65	QP
10	1.00	32.65	-13.35	46.00	21.90	0.10	10.65	Average
11	1.09	40.55	-15.45	56.00	29.80	0.10	10.65	QP
12	1.09	31.45	-14.55	46.00	20.70	0.10	10.65	Average
13	1.17	41.46	-14.54	56.00	30.70	0.10	10.66	QP
14	1.17	32.66	-13.34	46.00	21.90	0.10	10.66	Average
15	1.26	32.56	-13.44	46.00	21.80	0.10	10.66	Average
16	1.26	41.46	-14.54	56.00	30.70	0.10	10.66	QP
17	1.33	41.27	-14.73	56.00	30.50	0.10	10.67	QP
18	1.33	32.47	-13.53	46.00	21.70	0.10	10.67	Average
19	1.41	32.17	-13.83	46.00	21.40	0.10	10.67	Average
20	1.41	39.37	-16.63	56.00	28.60	0.10	10.67	QP
21	1.48	31.88	-14.12	46.00	21.10	0.10	10.68	Average
22	1.48	39.58	-16.42	56.00	28.80	0.10	10.68	QP
23	1.59	38.89	-17.11	56.00	28.10	0.10	10.69	QP
24	1.59	30.59	-15.41	46.00	19.80	0.10	10.69	Average
25	1.70	28.09	-17.91	46.00	17.30	0.10	10.69	Average
26	1.70	35.79	-20.21	56.00	25.00	0.10	10.69	QP
27	2.55	29.95	-16.05	46.00	19.10	0.12	10.73	Average

Test Mode :	Mode 1	**Temperature :**	19~20℃
Test Engineer :	Tom Wang	**Relative Humidity :**	39~40%
Test Voltage :	120Vac / 60Hz	**Phase :**	Neutral
Function Type :	GSM850 Idle + Bluetooth Link + WLAN Link + USB Cable (Charging from Adapter) + Earphone		
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : C001-KS
Condition: FCC PART15C LISN-N20130306 NEUTRAL
Project : (FR) 341002
mode : Mode 1

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
28	2.55	37.25	-18.75	56.00	26.40	0.12	10.73	QP
29	5.99	34.68	-15.32	50.00	23.60	0.20	10.88	Average
30	5.99	41.58	-18.42	60.00	30.50	0.20	10.88	QP
31	6.25	34.99	-15.01	50.00	23.90	0.20	10.89	Average
32	6.25	42.09	-17.91	60.00	31.00	0.20	10.89	QP
33	6.70	33.71	-16.29	50.00	22.60	0.20	10.91	Average
34	6.70	40.41	-19.59	60.00	29.30	0.20	10.91	QP

3.7 Antenna Requirements

3.7.1 Standard Applicable

If directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. For the fixed point-to-point operation, the power shall be reduced by one dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the FCC rule.

3.7.2 Antenna Connected Construction

Non-standard connector used.

3.7.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSP40	100319	9kHz~40GHz	Dec. 29, 2012	Apr. 23, 2013	Dec. 28, 2013	Conducted (TH01-KS)
Power Meter	Agilent	E4416A	MY45101555	N/A	Aug. 22, 2012	Apr. 23, 2013	Aug. 21, 2013	Conducted (TH01-KS)
Power Sensor	Agilent	E9327A	MY44421198	N/A	Aug. 22, 2012	Apr. 23, 2013	Aug. 21, 2013	Conducted (TH01-KS)
DC Power Supply	GWINSTEK	GPS-3030D	E1884515	N/A	Aug. 22, 2012	Apr. 23, 2013	Aug. 21, 2013	Conducted (TH01-KS)
Thermal Chamber	Ten Billion	TTC-B3S	TBN-960502	N/A	Dec. 29, 2012	Apr. 23, 2013	Dec. 28, 2013	Conducted (TH01-KS)
EMI Test Receiver	R&S	ESCI	100534	9kHz~3GHz	Nov. 08, 2012	May 22, 2013	Nov. 07, 2013	Radiation (03CH01-KS)
Spectrum Analyzer	R&S	FSP30	100400	9kHz~30GHz	Jun. 01, 2012	May 22, 2013	May 31, 2013	Radiation (03CH01-KS)
Bilog Antenna	SCHAFFNER	CBL6112D	23182	25MHz~2GHz	Dec. 07, 2012	May 22, 2013	Dec. 06, 2013	Radiation (03CH01-KS)
HFH2-Z2 Loop Antenna	R&S	HFH2-Z2	100321	9KHZ-30MHZ	Oct. 22, 2012	May 22, 2013	Oct. 21, 2013	Radiation (03CH01-KS)
Double Ridge Horn Antenna	ETS-Lindgren	1908/7/13	00075957	1GHz~18GHz	Dec. 07, 2012	May 22, 2013	Dec. 06, 2013	Radiation (03CH01-KS)
Amplifier	com-power	PA-103A	161069	1MHz~1GHz	Jun. 01, 2012	May 22, 2013	May 31, 2013	Radiation (03CH01-KS)
Amplifier	Agilent	8449B	3008A02370	1GHz~26.5GHz	Dec. 29, 2012	May 22, 2013	Dec. 28, 2013	Radiation (03CH01-KS)
Active Horn Antenna	com-power	AHA-118	701023	1GHz~18GHz	Nov. 07, 2012	May 22, 2013	Nov. 06, 2013	Radiation (03CH01-KS)
SHF-EHF Horn	Schwarzbeck	BBHA 9170	9170249	15GHz~40GHz	Nov. 23, 2012	May 22, 2013	Nov. 22, 2013	Radiation (03CH01-KS)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz	Jun. 01, 2012	Apr. 18, 2013	May 31, 2013	Conduction (CO01-KS)
LISN	MessTec	AN3016	60103	9kHz~30MHz	Dec. 29, 2012	Apr. 18, 2013	Dec. 28, 2013	Conduction (CO01-KS)
LISN	MessTec	AN3016	60105	9kHz~30MHz	Dec. 29, 2012	Apr. 18, 2013	Dec. 28, 2013	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP000000811	N/A	Nov. 15, 2012	Apr. 18, 2013	Nov. 14, 2013	Conduction (CO01-KS)
System Simulator	R&S	CMU200	837587/066	2G Full-Band	Dec. 29, 2012	Apr. 18, 2013	Dec. 28, 2013	Conduction (CO01-KS)

5 Uncertainty of Evaluation

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

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

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

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

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

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

Appendix A. Photographs of EUT

Please refer to Sporton report number EP341002 as below.