Partial FCC RF Test Report

APPLICANT	:	FUJITSU LIMITED
EQUIPMENT	:	Fujitsu Stylistic Q Series Tablet PC
BRAND NAME	:	Fujitsu
MODEL NAME	:	Q704
FCC ID	:	EJE-WB0087
STANDARD	:	FCC Part 15 Subpart C §15.247
CLASSIFICATION	:	(DTS) Digital Transmission System

This is a partial report which is included conducted power, radiated band edges, radiated spurious emission, and AC conducted emission measurement. The product was received on Sep. 17, 2013 and testing was completed on Oct. 31, 2013. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the procedures and shown to be compliant with the applicable technical standards.

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

Reviewed by: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager

Testing Laboratory 1190

TABLE OF CONTENTS

REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR391724C	Rev. 01	Initial issue of report	Nov. 12, 2013
FR391724C	Rev. 02	Add frequency description in section 1.4.	Nov. 20, 2013

SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.1	15.247(d)	RSS-210 A8.5	Radiated Band Edges and Radiated Spurious Emission	15.209(a) & 15.247(d)	Pass	Under limit 1.55 dB at 2483.560 MHz
3.2	15.207	RSS-Gen 7.2.4	AC Conducted Emission	15.207(a)	Pass	Under limit 13.80 dB at 0.198 MHz
3.3	15.203 & 15.247(b)	RSS-210 A8.4	Antenna Requirement	N/A	Pass	-

1 General Description

1.1 Applicant

FUJITSU LIMITED

1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki, 211-8588 Japan

1.2 Manufacturer

FUJITSU LIMITED

1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki, 211-8588 Japan

1.3 Feature of Equipment Under Test

Product Feature	
Equipment	Fujitsu Stylistic Q Series Tablet PC
Brand Name	Fujitsu
Model Name	Q704
FCC ID	EJE-WB0087
Integrated Module	Brand Name: Intel Model Name: 7260HMW FCC ID: PD97260H
EUT supports Radios application	WLAN 11a/b/g/n HT20/HT40 Bluetooth v3.0 + EDR / v4.0-LE
EUT Stage	Pre-Production Unit

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

1.4 Product Specification of Equipment Under Test

<table>
<tr><th colspan="2">Product Specification subjective to this standard</th></tr>
<tr><td>Tx/Rx Channel Frequency Range</td><td>802.11b/g/n : 2412 MHz ~ 2462 MHz
802.11a/n: 5745~5825MHz.</td></tr>
<tr><td>Maximum (Peak) Output Power to antenna</td><td><Ant. 1>
<2412 MHz ~ 2462 MHz >
802.11b : 17.33 dBm (0.0541 W)
802.11g : 19.90 dBm (0.0977 W)
802.11n HT20 : 19.84 dBm (0.0964 W)
802.11n HT40 : 19.66 dBm (0.0925 W)
<5745 MHz ~ 5825 MHz >
802.11a : 17.86 dBm (0.0611 W)
802.11n HT20 : 17.94 dBm (0.0622 W)
802.11n HT40 : 17.34 dBm (0.0542 W)
<Ant. 2>
<2412 MHz ~ 2462 MHz >
802.11b : 16.40 dBm (0.0437 W)
802.11g : 19.52 dBm (0.0895 W)
802.11n HT20 : 19.41 dBm (0.0873 W)
802.11n HT40 : 18.28 dBm (0.0673 W)
<5745 MHz ~ 5825 MHz >
802.11a : 18.12 dBm (0.0649 W)
802.11n HT20 : 18.13 dBm (0.0650 W)
802.11n HT40 : 17.57 dBm (0.0571 W)
<Ant. 1+2>
<2412 MHz ~ 2462 MHz >
802.11n HT20 : 18.77 dBm (0.0753 W)
802.11n HT40 : 18.04 dBm (0.0637 W)
<5745 MHz ~ 5825 MHz >
802.11n HT20 : 18.51 dBm (0.0710 W)
802.11n HT40 : 18.04 dBm (0.0637 W)</td></tr>
<tr><td>Antenna Type</td><td><Ant. 1>
802.11b/g/n : PIFA Antenna type with gain -0.44 dBi
802.11a/n : PIFA Antenna type with gain 1.14 dBi
<Ant. 2>
802.11b/g/n : PIFA Antenna type with gain -0.95 dBi
802.11a/n : PIFA Antenna type with gain 0.48 dBi</td></tr>
<tr><td>Type of Modulation</td><td>802.11b : DSSS (DBPSK / DQPSK / CCK)
802.11a/g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)</td></tr>
<tr><td>Antenna Function for Transmitter</td><td>
<table>
<tr><th></th><th>Chain
Port 0
Ant 1</th><th>Chain
Port 1
Ant 2</th></tr>
<tr><td>802.11 b</td><td>V</td><td>V</td></tr>
<tr><td>802.11 g</td><td>V</td><td>V</td></tr>
<tr><td>802.11 a</td><td>V</td><td>V</td></tr>
<tr><td>802.11 n
SISO</td><td>V</td><td>V</td></tr>
<tr><td>802.11 n
MIMO</td><td>V</td><td>V</td></tr>
</table>
</td></tr>
</table>

1.5 Modification of EUT

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

1.6 Testing Site

Test Site	SPORTON INTERNATIONAL INC.			
Test Site Location	No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C. TEL: +886-3-3273456 / FAX: +886-3-3284978			
Test Site No.	Sporton Site No.			FCC/IC Registration No.
	TH02-HY	CO05-HY	03CH08-HY	636805/4086B-2

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

1.7 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
- FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ANSI C63.4-2003

Remark: All test items were verified and recorded according to the standards and without any deviation during the test.

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 (X plane or Ant. 1, Ant. 2 (WLAN 2.4G), and MIMO Ant.1+2 (WLAN 2.4G); Z plane for Ant. 2 (WLAN 5G) and MIMO Ant. 1+2 (WLAN 5G)) 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 and 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		

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5725-5850 MHz Band 4	149	5745	159	5795
	151	5755	161	5805
	153	5765	165	5825
	157	5785	-	-

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.

<Ant. 1>

802.11b				
Data Rate (MHz)	1M bps	2M bps	5.5M bps	11M bps
Peak Power (dBm)	**17.33**	17.01	16.97	17.09

802.11g								
Data Rate (MHz)	6M bps	9M bps	12M bps	18M bps	24M bps	36M bps	48M bps	54M bps
Peak Power (dBm)	**19.90**	19.74	19.73	19.78	19.77	19.78	19.77	19.79

2.4GHz 802.11n HT20								
Data Rate (MHz)	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Peak Power (dBm)	**19.84**	19.66	19.73	19.75	19.83	19.81	19.83	19.83

2.4GHz 802.11n HT40								
Data Rate (MHz)	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Peak Power (dBm)	**19.66**	19.65	19.64	19.65	19.64	19.65	19.65	19.64

802.11a								
Data Rate (MHz)	6M bps	9M bps	12M bps	18M bps	24M bps	36M bps	48M bps	54M bps
Peak Power (dBm)	**17.86**	17.85	17.84	17.83	17.82	17.85	17.85	17.75

5GHz 802.11n HT20								
Data Rate (MHz)	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Peak Power (dBm)	**17.94**	17.93	17.91	17.93	17.93	17.92	17.91	17.91

5GHz 802.11n HT40								
Data Rate (MHz)	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Peak Power (dBm)	**17.34**	17.33	17.29	17.33	17.32	17.33	17.30	17.31

<Ant. 2>

802.11b				
Data Rate (MHz)	1M bps	2M bps	5.5M bps	11M bps
Peak Power (dBm)	16.40	16.27	16.38	16.39

802.11g								
Data Rate (MHz)	6M bps	9M bps	12M bps	18M bps	24M bps	36M bps	48M bps	54M bps
Peak Power (dBm)	19.52	19.03	18.99	19.12	19.02	18.99	19.13	19.21

2.4GHz 802.11n HT20								
Data Rate (MHz)	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Peak Power (dBm)	19.41	18.96	18.93	18.99	18.90	19.02	19.38	19.37

2.4GHz 802.11n HT40								
Data Rate (MHz)	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Peak Power (dBm)	18.28	18.27	18.27	18.27	18.25	18.25	18.27	18.25

802.11a								
Data Rate (MHz)	6M bps	9M bps	12M bps	18M bps	24M bps	36M bps	48M bps	54M bps
Peak Power (dBm)	18.12	17.89	18.11	17.74	18.10	18.11	18.11	18.01

5GHz 802.11n HT20								
Data Rate (MHz)	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Peak Power (dBm)	18.13	18.02	18.08	18.11	18.10	18.12	18.11	18.11

5GHz 802.11n HT40								
Data Rate (MHz)	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Peak Power (dBm)	17.57	17.52	17.51	17.56	17.56	17.55	17.55	17.55

MIMO <Ant. 1+2>

2.4GHz 802.11n HT20								
Data Rate (MHz)	MCS8	MCS9	MCS10	MCS11	MCS12	MCS13	MCS14	MCS15
Peak Power (dBm)	**18.77**	18.51	18.53	18.24	18.03	18.39	18.57	17.49

2.4GHz 802.11n HT40								
Data Rate (MHz)	MCS8	MCS9	MCS10	MCS11	MCS12	MCS13	MCS14	MCS15
Peak Power (dBm)	**18.04**	17.84	18.00	17.99	17.65	17.58	17.94	18.02

5GHz 802.11n HT20								
Data Rate (MHz)	MCS8	MCS9	MCS10	MCS11	MCS12	MCS13	MCS14	MCS15
Peak Power (dBm)	**18.51**	18.43	18.42	18.28	18.38	18.46	18.22	18.06

5GHz 802.11n HT40								
Data Rate (MHz)	MCS8	MCS9	MCS10	MCS11	MCS12	MCS13	MCS14	MCS15
Peak Power (dBm)	**18.04**	17.87	17.98	18.02	18.02	18.02	17.90	14.91

Note: MIMO Ant 1+2 is a calculated result from sum of the power MIMO Ant 1 and MIMO Ant 2.

2.3 Test Mode

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

<2.4GHz>

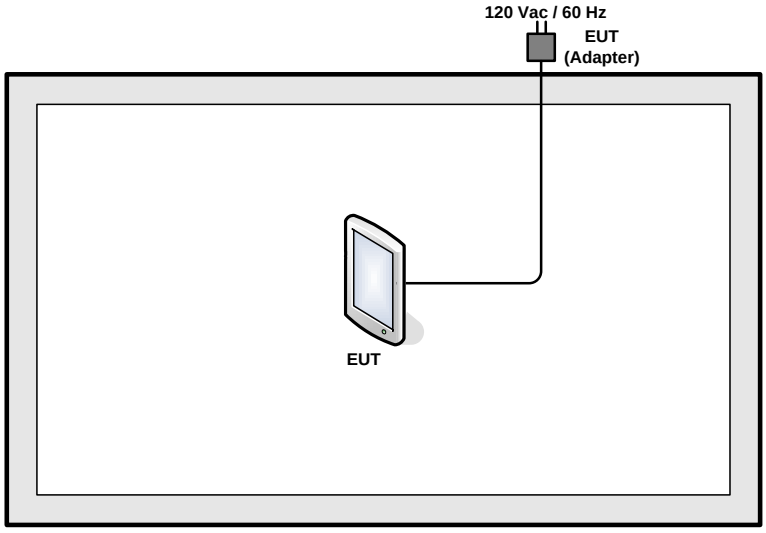
Test Cases				
	Test Items	Mode	Data Rate	Test Channel
Radiated TCs	Radiated Band Edge	802.11b (Ant. 1)	1 Mbps	1/11
		802.11b (Ant. 2)	1 Mbps	1
		802.11g (Ant. 1)	6 Mbps	1/11
		802.11g (Ant. 2)	6 Mbps	11
		802.11n HT20 (Ant. 1)	MCS0	11
		802.11n HT20 (Ant. 2)	MCS0	11
		802.11n HT20 MIMO (Ant. 1+2)	MCS8	1/11
		802.11n HT40 (Ant. 1)	MCS0	9
		802.11n HT40 (Ant. 2)	MCS0	9
		802.11n HT40 MIMO (Ant. 1+2)	MCS8	3/9
	Radiated Spurious Emission	802.11b (Ant. 1)	1 Mbps	1/6/11
		802.11b (Ant. 2)	1 Mbps	1
		802.11g (Ant. 1)	6 Mbps	1/6/11
		802.11g (Ant. 2)	6 Mbps	11
		802.11n HT20 (Ant. 1)	MCS0	11
		802.11n HT20 (Ant. 2)	MCS0	11
		802.11n HT20 MIMO (Ant. 1+2)	MCS8	1/6/11
		802.11n HT40 (Ant. 1)	MCS0	9
		802.11n HT40 (Ant. 2)	MCS0	9
		802.11n HT40 MIMO (Ant. 1+2)	MCS8	3/6/9

<5GHz>

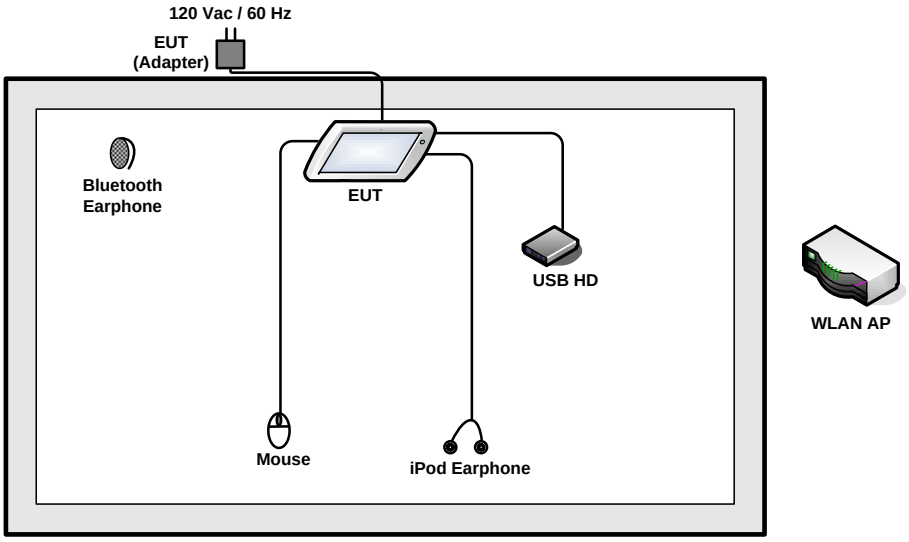
Test Cases				
	Test Items	**Mode**	**Data Rate**	**Test Channel**
Radiated TCs	**Radiated Spurious Emission**	**802.11a (Ant. 1)**	**6 Mbps**	**157**
		802.11a (Ant. 2)	**6 Mbps**	**149/157/165**
		802.11n HT20 (Ant. 1)	**MCS0**	**157**
		802.11n HT20 (Ant. 1)	**MCS0**	**157**
		802.11n HT20 MIMO (Ant. 1+2)	**MCS8**	**149/157/165**
		802.11n HT40 (Ant. 1)	**MCS0**	**159**
		802.11n HT40 (Ant. 2)	**MCS0**	**159**
		802.11n HT40 MIMO (Ant. 1+2)	**MCS8**	**151/159**
AC Conducted Emission	Mode 1 : WLAN (2.4GHz) Link + Bluetooth Link + MPEG4 + Earphone + Mouse + Adapter + USB HD + H Pattern			

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.	WLAN AP	D-Link	DIR-628	KA2DIR628A2	N/A	Unshielded, 1.8 m
2.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
3.	iPod Earphone	Apple	N/A	verification	Unshielded, 1.0 m	N/A
4.	(USB) Mouse	Lenovo	MO20BOL	FCC DoC	Shielded, 1.3 m	N/A
5.	USB HD	WD	WDBAAR3200 ABK-PESN	FCC DoC	Unshielded, 0.5 m	N/A
6.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A

2.6 EUT Operation Test Setup

The programmed RF utility “DRTU”, is installed in EUT to provide channel selection, power level, data rate and the application type. RF Utility can send transmitting signal for all testing. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

3 Test Result

3.1 Radiated Band Edges and Spurious Emission Measurement

3.1.1 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 (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

3.1.2 Measuring Instruments

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

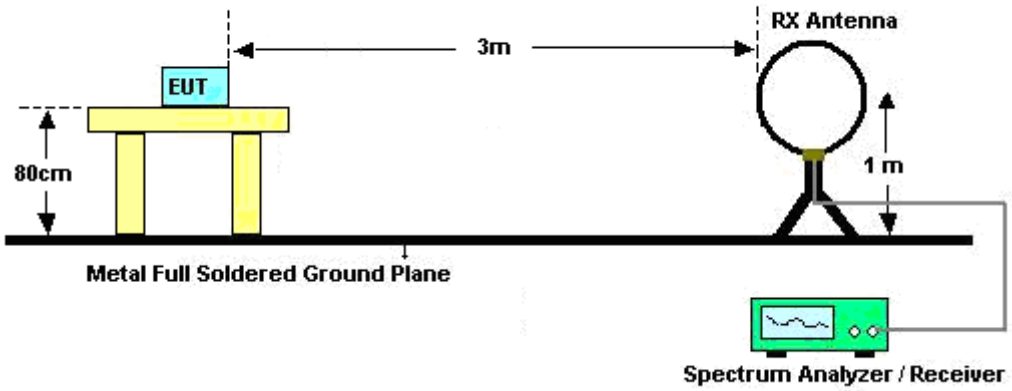
3.1.3 Test Procedure

1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r01.
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.

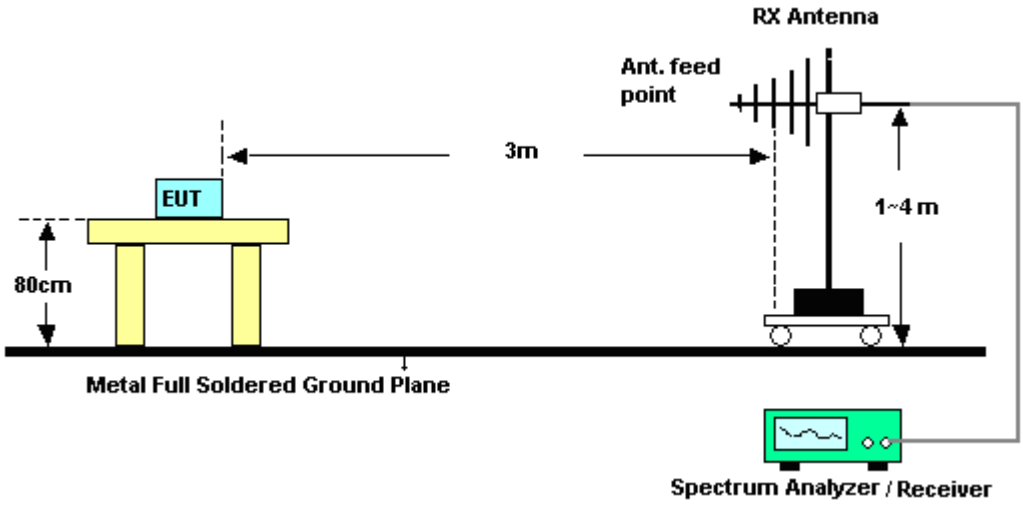
Antenna	Band	Duty Cycle (%)	T(us)	1/T(kHz)	VBW Setting
1	802.11b	99.12	-	-	10Hz
2	802.11b	98.68			
1	802.11g	99.04	-	-	10Hz
2	802.11g	99.04			
1	2.4G 802.11n HT20	98.97	-	-	10Hz
2	2.4G 802.11n HT20	98.98			
1+2	2.4G 802.11n HT20 for Ant. 1	97.03	980.00	1.02	3kHz
1+2	2.4G 802.11n HT20 for Ant. 2	98.02	-	-	10Hz
1	2.4G 802.11n HT40	96.94	950.00	1.05	3kHz
2	2.4G 802.11n HT40	96.91	940.00	1.06	
1+2	2.4G 802.11n HT40 for Ant. 1	95.40	498.00	2.01	
1+2	2.4G 802.11n HT40 for Ant. 2	94.32	498.00	2.01	
1	802.11a	98.56	-	-	10Hz
2	802.11a	98.56			
1	5G 802.11n HT20	98.46	-	-	10Hz
2	5G 802.11n HT20	98.46			
1+2	5G 802.11n HT20 for Ant. 1	97.04	984.00	1.02	3kHz
1+2	5G 802.11n HT20 for Ant. 2	97.04	984.00	1.02	3kHz
1	5G 802.11n HT40	97.53	948.00	1.06	3kHz
2	5G 802.11n HT40	96.93	948.00	1.06	
1+2	5G 802.11n HT40 for Ant. 1	94.70	500.00	2.00	
1+2	5G 802.11n HT40 for Ant. 2	94.70	500.00	2.00	

3.1.4 Test Setup

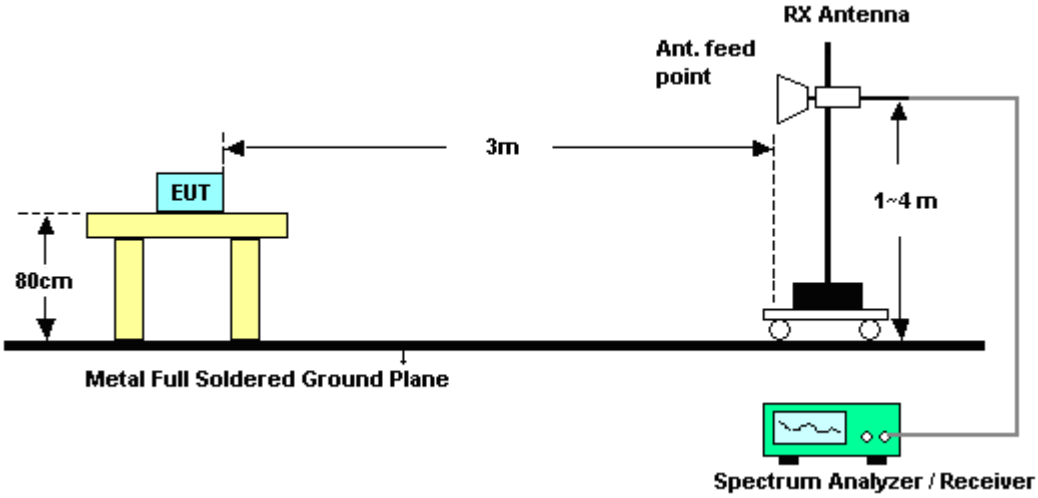
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



3.1.5 Test Results of Radiated Emissions (9kHz ~ 30MHz)

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

3.1.6 Test Result of Radiated Spurious at Band Edges

<Ant. 1.>

Test Mode :	802.11b	**Temperature :**	23~24°C
Test Band :	Low	**Relative Humidity :**	50~51%
Test Channel :	01	**Test Engineer :**	Jet Lu

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**
2386.23	52.73	-21.27	74	47.72	32.27	6.22	33.48	100	137	Peak
2385.78	42.81	-11.19	54	37.8	32.27	6.22	33.48	100	137	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**
2388.93	52.47	-21.53	74	47.67	32.06	6.22	33.48	100	247	Peak
2385.78	42.79	-11.21	54	37.99	32.06	6.22	33.48	100	247	Average

Test Mode :	802.11b	**Temperature :**	23~24°C
Test Band :	High	**Relative Humidity :**	50~51%
Test Channel :	11	**Test Engineer :**	Jet Lu

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**
2487.58	52.15	-21.85	74	46.46	32.7	6.45	33.46	100	175	Peak
2483.5	41.57	-12.43	54	35.95	32.63	6.45	33.46	100	175	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**
2483.86	51.49	-22.51	74	45.91	32.59	6.45	33.46	187	255	Peak
2483.5	41.09	-12.91	54	35.51	32.59	6.45	33.46	187	255	Average

<Ant. 2.>

Test Mode :	802.11b	**Temperature :**	23~24°C
Test Band :	Low	**Relative Humidity :**	50~51%
Test Channel :	01	**Test Engineer :**	Jet Lu

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
2386.23	59.18	-14.82	74	54.17	32.27	6.22	33.48	104	288	Peak
2385.69	52.15	-1.85	54	47.14	32.27	6.22	33.48	104	288	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
2386.32	55.19	-18.81	74	50.39	32.06	6.22	33.48	131	97	Peak
2385.78	47.29	-6.71	54	42.49	32.06	6.22	33.48	131	97	Average

<Ant. 1>

Test Mode :	802.11g	**Temperature :**	23~24°C
Test Band :	Low	**Relative Humidity :**	50~51%
Test Channel :	01	**Test Engineer :**	Jet Lu

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
2388.12	59.09	-14.91	74	54.08	32.27	6.22	33.48	104	27	Peak
2390	44.39	-9.61	54	39.38	32.27	6.22	33.48	104	27	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
2389.83	53.99	-20.01	74	49.19	32.06	6.22	33.48	200	245	Peak
2390	40.74	-13.26	54	35.94	32.06	6.22	33.48	200	245	Average

Test Mode :	802.11g	**Temperature :**	23~24°C
Test Band :	High	**Relative Humidity :**	50~51%
Test Channel :	11	**Test Engineer :**	Jet Lu

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
2483.89	67.62	-6.38	74	62	32.63	6.45	33.46	100	155	Peak
2483.5	47.85	-6.15	54	42.23	32.63	6.45	33.46	100	155	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
2483.74	62.69	-11.31	74	57.11	32.59	6.45	33.46	100	268	Peak
2483.5	44.66	-9.34	54	39.08	32.59	6.45	33.46	100	268	Average

<Ant. 2>

Test Mode :	802.11g	**Temperature :**	23~24°C
Test Band :	High	**Relative Humidity :**	50~51%
Test Channel :	11	**Test Engineer :**	Jet Lu

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
2483.74	69.38	-4.62	74	63.76	32.63	6.45	33.46	100	246	Peak
2483.5	50.67	-3.33	54	45.05	32.63	6.45	33.46	100	246	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
2483.74	66.41	-7.59	74	60.83	32.59	6.45	33.46	154	295	Peak
2483.5	47.44	-6.56	54	41.86	32.59	6.45	33.46	154	295	Average

<MIMO Ant. 1+2>

Test Mode :	802.11n HT20	**Temperature :**	23~24°C
Test Band :	Low	**Relative Humidity :**	50~51%
Test Channel :	01	**Test Engineer :**	Jet Lu

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
2388.57	66.66	-7.34	74	61.65	32.27	6.22	33.48	125	68	Peak
2389.65	50.12	-3.88	54	45.11	32.27	6.22	33.48	125	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
2389.65	63.92	-10.08	74	59.12	32.06	6.22	33.48	100	270	Peak
2389.56	48.48	-5.52	54	43.68	32.06	6.22	33.48	100	270	Average

Test Mode :	802.11n HT20	**Temperature :**	23~24°C
Test Band :	High	**Relative Humidity :**	50~51%
Test Channel :	11	**Test Engineer :**	Jet Lu

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
2483.95	70.2	-3.8	74	64.58	32.63	6.45	33.46	100	283	Peak
2483.56	52.45	-1.55	54	46.83	32.63	6.45	33.46	100	283	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
2484.76	59.87	-14.13	74	54.29	32.59	6.45	33.46	185	114	Peak
2483.71	45.91	-8.09	54	40.33	32.59	6.45	33.46	185	114	Average

<Ant. 1>

Test Mode :	802.11n HT20	**Temperature :**	23~24°C
Test Band :	High	**Relative Humidity :**	50~51%
Test Channel :	11	**Test Engineer :**	Jet Lu

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
2484.79	69.87	-4.13	74	64.25	32.63	6.45	33.46	100	338	Peak
2483.5	50.69	-3.31	54	45.07	32.63	6.45	33.46	100	338	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
2484.1	68	-6	74	62.42	32.59	6.45	33.46	127	80	Peak
2483.5	48.04	-5.96	54	42.46	32.59	6.45	33.46	127	80	Average

<Ant. 2>

Test Mode :	802.11n HT20	**Temperature :**	23~24°C
Test Band :	High	**Relative Humidity :**	50~51%
Test Channel :	11	**Test Engineer :**	Jet Lu

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
2483.92	68.11	-5.89	74	62.49	32.63	6.45	33.46	100	246	Peak
2483.5	46.48	-7.52	54	40.86	32.63	6.45	33.46	100	246	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
2489.56	59.03	-14.97	74	53.34	32.7	6.45	33.46	154	297	Peak
2483.5	42.76	-11.24	54	37.18	32.59	6.45	33.46	154	297	Average

<MIMO Ant. 1+2>

Test Mode :	802.11n HT40	**Temperature :**	23~24°C
Test Band :	Low	**Relative Humidity :**	50~51%
Test Channel :	03	**Test Engineer :**	Jet Lu

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	55.96	-18.04	74	50.95	32.27	6.22	33.48	100	286	Peak
2389.11	43.92	-10.08	54	38.91	32.27	6.22	33.48	100	286	Average
2489.38	53.94	-20.06	74	48.25	32.7	6.45	33.46	100	286	Peak
2483.86	40.67	-13.33	54	35.05	32.63	6.45	33.46	100	286	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
2389.65	52.79	-21.21	74	47.99	32.06	6.22	33.48	100	271	Peak
2389.56	41.94	-12.06	54	37.14	32.06	6.22	33.48	100	271	Average
2499.97	49.93	-24.07	74	44.24	32.7	6.45	33.46	100	271	Peak
2491.87	38.82	-15.18	54	33.13	32.7	6.45	33.46	100	271	Average

Test Mode :	802.11n HT40	Temperature :	23~24°C
Test Band :	High	Relative Humidity :	50~51%
Test Channel :	09	Test Engineer :	Jet Lu

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
2387.85	54.47	-19.53	74	49.46	32.27	6.22	33.48	100	72	Peak
2389.74	42.3	-11.7	54	37.29	32.27	6.22	33.48	100	72	Average
2487.43	64.48	-9.52	74	58.86	32.63	6.45	33.46	100	72	Peak
2483.74	50.28	-3.72	54	44.66	32.63	6.45	33.46	100	72	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
2388.84	49.22	-24.78	74	44.42	32.06	6.22	33.48	100	107	Peak
2389.56	38.86	-15.14	54	34.06	32.06	6.22	33.48	100	107	Average
2488.24	61.3	-12.7	74	55.61	32.7	6.45	33.46	100	107	Peak
2483.8	47.09	-6.91	54	41.51	32.59	6.45	33.46	100	107	Average

<Ant. 1>

Test Mode :	802.11n HT40	**Temperature :**	23~24°C
Test Band :	High	**Relative Humidity :**	50~51%
Test Channel :	09	**Test Engineer :**	Jet Lu

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
2388.57	54.85	-19.15	74	49.84	32.27	6.22	33.48	159	316	Peak
2389.02	41.57	-12.43	54	36.56	32.27	6.22	33.48	159	316	Average
2486.11	66.51	-7.49	74	60.89	32.63	6.45	33.46	159	316	Peak
2483.65	51.98	-2.02	54	46.36	32.63	6.45	33.46	159	316	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
2389.56	52.58	-21.42	74	47.78	32.06	6.22	33.48	104	282	Peak
2389.83	40.6	-13.4	54	35.8	32.06	6.22	33.48	104	282	Average
2485.51	64.35	-9.65	74	58.77	32.59	6.45	33.46	104	282	Peak
2484.22	50.15	-3.85	54	44.57	32.59	6.45	33.46	104	282	Average

<Ant. 2>

Test Mode :	802.11n HT40	**Temperature :**	23~24°C
Test Band :	High	**Relative Humidity :**	50~51%
Test Channel :	09	**Test Engineer :**	Jet Lu

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
2387.94	48.89	-25.11	74	43.88	32.27	6.22	33.48	100	68	Peak
2389.56	38.57	-15.43	54	33.56	32.27	6.22	33.48	100	68	Average
2483.83	52.16	-21.84	74	46.54	32.63	6.45	33.46	100	68	Peak
2484.55	40.56	-13.44	54	34.94	32.63	6.45	33.46	100	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
2384.43	50.45	-23.55	74	45.76	31.95	6.22	33.48	126	120	Peak
2389.92	39.51	-14.49	54	34.71	32.06	6.22	33.48	126	120	Average
2485.75	58.27	-15.73	74	52.69	32.59	6.45	33.46	126	120	Peak
2484.07	45.47	-8.53	54	39.89	32.59	6.45	33.46	126	120	Average

3.1.7 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.

<Ant. 1>

Test Mode :	802.11b	**Temperature :**	23~24°C
Test Channel :	01	**Relative Humidity :**	50~51%
Test Engineer :	Jet Lu	**Polarization :**	Horizontal
Remark :	1. 2414 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
105.87	33.1	-10.4	43.5	52.75	11.05	1.21	31.91	100	183	Peak
150.15	26.36	-17.14	43.5	46.76	9.96	1.44	31.8	-	-	Peak
268.41	35.01	-10.99	46	52.27	12.54	1.91	31.71	-	-	Peak
444.9	31.46	-14.54	46	44.15	16.16	2.43	31.28	-	-	Peak
477.8	27.98	-18.02	46	39.81	16.87	2.51	31.21	-	-	Peak
800.5	25.75	-20.25	46	33.5	19.95	3.26	30.96	-	-	Peak
2414	95.78	-	-	90.64	32.34	6.28	33.48	100	137	Average
2414	101.48	-	-	96.34	32.34	6.28	33.48	100	137	Peak
4824	44.18	-29.82	74	60.64	34.44	8.04	58.94	100	0	Peak

Test Mode :	802.11b	Temperature :	23~24°C
Test Channel :	01	Relative Humidity :	50~51%
Test Engineer :	Jet Lu	Polarization :	Vertical
Remark :	1. 2414 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
93.72	33.75	-9.75	43.5	55.04	9.5	1.12	31.91	102	267	Peak
198.21	30.54	-12.96	43.5	51.49	9.12	1.64	31.71	-	-	Peak
268.41	32.53	-13.47	46	49.69	12.64	1.91	31.71	-	-	Peak
451.2	27.73	-18.27	46	40.56	15.98	2.45	31.26	-	-	Peak
600.3	26.92	-19.08	46	36.36	18.91	2.83	31.18	-	-	Peak
800.5	24.12	-21.88	46	31.89	19.93	3.26	30.96	-	-	Peak
2414	93.93	-	-	88.97	32.16	6.28	33.48	100	247	Average
2414	99.53	-	-	94.57	32.16	6.28	33.48	100	247	Peak
4824	42.27	-31.73	74	58.73	34.44	8.04	58.94	100	0	Peak

Test Mode :	802.11b	Temperature :	23~24°C
Test Channel :	06	Relative Humidity :	50~51%
Test Engineer :	Jet Lu	Polarization :	Horizontal
Remark :	1. 2439 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
2439	95.45	-	-	90.09	32.49	6.34	33.47	100	147	Average
2439	100.88	-	-	95.52	32.49	6.34	33.47	100	147	Peak
4875	47.76	-26.24	74	64.12	34.4	8.11	58.87	100	0	Peak
7311	41.04	-32.96	74	53.41	35.62	10.47	58.46	100	0	Peak

Test Mode :	802.11b	Temperature :	23~24°C
Test Channel :	06	Relative Humidity :	50~51%
Test Engineer :	Jet Lu	Polarization :	Vertical
Remark :	1. 2439 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
2439	93.51	-	-	88.26	32.38	6.34	33.47	100	268	Average
2439	98.55	-	-	93.3	32.38	6.34	33.47	100	268	Peak
4875	43.57	-30.43	74	59.93	34.4	8.11	58.87	100	0	Peak
7311	40.77	-33.23	74	53.2	35.56	10.47	58.46	100	0	Peak

Test Mode :	802.11b	Temperature :	23~24°C
Test Channel :	11	Relative Humidity :	50~51%
Test Engineer :	Jet Lu	Polarization :	Horizontal
Remark :	1. 2464 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
2464	93.69	-	-	88.21	32.56	6.39	33.47	100	175	Average
2464	99.54	-	-	94.06	32.56	6.39	33.47	100	175	Peak
4926	45.9	-28.1	74	62.12	34.36	8.22	58.8	100	0	Peak
7386	41.36	-32.64	74	53.86	35.66	10.45	58.61	100	0	Peak

Test Mode :	802.11b	Temperature :	23~24°C
Test Channel :	11	Relative Humidity :	50~51%
Test Engineer :	Jet Lu	Polarization :	Vertical
Remark :	1. 2464 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
2464	91.9	-	-	86.49	32.49	6.39	33.47	187	255	Average
2464	97.72	-	-	92.31	32.49	6.39	33.47	187	255	Peak
4923	43.46	-30.54	74	59.72	34.36	8.18	58.8	100	0	Peak
7386	40.68	-33.32	74	53.35	35.49	10.45	58.61	100	0	Peak

<Ant. 2>

Test Mode :	802.11b	**Temperature :**	23~24°C
Test Channel :	01	**Relative Humidity :**	50~51%
Test Engineer :	Jet Lu	**Polarization :**	Horizontal
Remark :	1. 2412 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
101.55	28.9	-14.6	43.5	49.31	10.32	1.18	31.91	-	-	Peak
240.06	30.15	-15.85	46	49.2	10.89	1.8	31.74	-	-	Peak
268.41	35.8	-10.2	46	53.06	12.54	1.91	31.71	100	123	Peak
359.5	27.74	-18.26	46	42.59	14.67	2.19	31.71	-	-	Peak
450.5	29.34	-16.66	46	41.94	16.21	2.45	31.26	-	-	Peak
800.5	26.31	-19.69	46	34.06	19.95	3.26	30.96	-	-	Peak
2412	100.32	-	-	95.18	32.34	6.28	33.48	104	288	Average
2412	106.03	-	-	100.89	32.34	6.28	33.48	104	288	Peak
4824	46.27	-27.73	74	62.73	34.44	8.04	58.94	100	0	Peak

Test Mode :	802.11b	Temperature :	23~24°C
Test Channel :	01	Relative Humidity :	50~51%
Test Engineer :	Jet Lu	Polarization :	Vertical
Remark :	1. 2414 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
93.72	30.95	-12.55	43.5	52.24	9.5	1.12	31.91	100	147	Peak
150.96	28.48	-15.02	43.5	47.6	11.24	1.44	31.8	-	-	Peak
268.41	31.91	-14.09	46	49.07	12.64	1.91	31.71	-	-	Peak
359.5	25.91	-20.09	46	40.76	14.67	2.19	31.71	-	-	Peak
454.7	27.75	-18.25	46	40.5	16.03	2.47	31.25	-	-	Peak
600.3	25.74	-20.26	46	35.18	18.91	2.83	31.18	-	-	Peak
2414	95.15	-	-	90.19	32.16	6.28	33.48	131	97	Average
2414	100.94	-	-	95.98	32.16	6.28	33.48	131	97	Peak
4824	48.39	-25.61	74	61.5	34.44	8.04	55.59	100	0	Peak

<Ant. 1>

Test Mode :	802.11g	**Temperature :**	23~24°C
Test Channel :	01	**Relative Humidity :**	50~51%
Test Engineer :	Jet Lu	**Polarization :**	Horizontal
Remark :	1. 2410 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
2410	93.05	-	-	87.91	32.34	6.28	33.48	104	27	Average
2410	104.85	-	-	99.71	32.34	6.28	33.48	104	27	Peak
4824	38.09	-35.91	74	54.55	34.44	8.04	58.94	100	0	Peak

Test Mode :	802.11g	**Temperature :**	23~24°C
Test Channel :	01	**Relative Humidity :**	50~51%
Test Engineer :	Jet Lu	**Polarization :**	Vertical
Remark :	1. 2414 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
2414	88.68	-	-	83.72	32.16	6.28	33.48	200	245	Average
2414	100.31	-	-	95.35	32.16	6.28	33.48	200	245	Peak
4824	38.33	-35.67	74	54.79	34.44	8.04	58.94	100	0	Peak

Test Mode :	802.11g	Temperature :	23~24°C
Test Channel :	06	Relative Humidity :	50~51%
Test Engineer :	Jet Lu	Polarization :	Horizontal
Remark :	1. 2435 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
2435	91.73	-	-	86.45	32.41	6.34	33.47	102	27	Average
2435	103.77	-	-	98.49	32.41	6.34	33.47	102	27	Peak
4875	44.53	-29.47	74	60.89	34.4	8.11	58.87	100	0	Peak
7311	40.4	-33.6	74	52.77	35.62	10.47	58.46	100	0	Peak

Test Mode :	802.11g	Temperature :	23~24°C
Test Channel :	06	Relative Humidity :	50~51%
Test Engineer :	Jet Lu	Polarization :	Vertical
Remark :	1. 2435 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
2435	88.48	-	-	83.34	32.27	6.34	33.47	100	270	Average
2435	100.66	-	-	95.52	32.27	6.34	33.47	100	270	Peak
4875	43.52	-30.48	74	56.69	34.4	8.11	55.68	100	0	Peak
7311	42.75	-31.25	74	53	35.56	10.47	56.28	100	0	Peak

Test Mode :	802.11g	Temperature :	23~24°C
Test Channel :	11	Relative Humidity :	50~51%
Test Engineer :	Jet Lu	Polarization :	Horizontal
Remark :	1. 2460 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
90.75	34.97	-8.53	43.5	56.55	9.13	1.11	31.82	100	128	Peak
136.11	30.58	-12.92	43.5	49.86	11.19	1.36	31.83	-	-	Peak
268.14	36.44	-9.56	46	53.71	12.54	1.9	31.71	-	-	Peak
445.6	32.4	-13.6	46	45.09	16.16	2.43	31.28	-	-	Peak
495.3	29.21	-16.79	46	40.86	16.95	2.57	31.17	-	-	Peak
800.5	26.07	-19.93	46	33.82	19.95	3.26	30.96	-	-	Peak
2460	89.61	-	-	84.13	32.56	6.39	33.47	100	155	Average
2460	101.62	-	-	96.14	32.56	6.39	33.47	100	155	Peak
4923	43.01	-30.99	74	59.27	34.36	8.18	58.8	100	0	Peak
7386	40.34	-33.66	74	52.84	35.66	10.45	58.61	100	0	Peak

Test Mode :	802.11g	Temperature :	23~24°C
Test Channel :	11	Relative Humidity :	50~51%
Test Engineer :	Jet Lu	Polarization :	Vertical
Remark :	1. 2460 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
79.68	31.76	-8.24	40	55.63	7.05	1.04	31.96	102	149	Peak
149.88	28.84	-14.66	43.5	47.96	11.24	1.44	31.8	-	-	Peak
268.41	33.21	-12.79	46	50.37	12.64	1.91	31.71	-	-	Peak
448.4	28.19	-17.81	46	41.09	15.93	2.44	31.27	-	-	Peak
600.3	26.04	-19.96	46	35.48	18.91	2.83	31.18	-	-	Peak
800.5	26.22	-19.78	46	33.99	19.93	3.26	30.96	-	-	Peak
2460	85.84	-	-	80.43	32.49	6.39	33.47	100	268	Average
2460	97.83	-	-	92.42	32.49	6.39	33.47	100	268	Peak
4923	43.59	-30.41	74	56.83	34.36	8.18	55.78	100	0	Peak
7386	42.28	-31.72	74	52.45	35.49	10.45	56.11	100	0	Peak

<Ant. 2>

Test Mode :	802.11g	**Temperature :**	23~24°C
Test Channel :	11	**Relative Humidity :**	50~51%
Test Engineer :	Jet Lu	**Polarization :**	Horizontal
Remark :	1. 2464 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
84.27	33.59	-6.41	40	56.4	7.98	1.07	31.86	100	24	Peak
150.96	25.05	-18.45	43.5	45.45	9.96	1.44	31.8	-	-	Peak
268.14	35.61	-10.39	46	52.88	12.54	1.9	31.71	-	-	Peak
335.7	27.46	-18.54	46	43.19	13.89	2.12	31.74	-	-	Peak
448.4	29.5	-16.5	46	42.15	16.18	2.44	31.27	-	-	Peak
800.5	26.01	-19.99	46	33.76	19.95	3.26	30.96	-	-	Peak
2464	94.25	-	-	88.77	32.56	6.39	33.47	100	246	Average
2464	106.02	-	-	100.54	32.56	6.39	33.47	100	246	Peak
4923	42.89	-31.11	74	59.15	34.36	8.18	58.8	100	0	Peak
7386	40.27	-33.73	74	52.77	35.66	10.45	58.61	100	0	Peak

Test Mode :	802.11g	Temperature :	23~24°C
Test Channel :	11	Relative Humidity :	50~51%
Test Engineer :	Jet Lu	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
150.15	28.96	-14.54	43.5	48.08	11.24	1.44	31.8	100	253	Peak
209.82	25.13	-18.37	43.5	45.81	9.34	1.69	31.71	-	-	Peak
288.66	31.02	-14.98	46	47.95	12.78	1.96	31.67	-	-	Peak
449.1	27.33	-18.67	46	40.19	15.95	2.45	31.26	-	-	Peak
600.3	28.19	-17.81	46	37.63	18.91	2.83	31.18	-	-	Peak
673.1	22.87	-23.13	46	32	18.87	2.99	30.99	-	-	Peak
2462	90.42	-	-	85.01	32.49	6.39	33.47	154	295	Average
2462	101.91	-	-	96.5	32.49	6.39	33.47	154	295	Peak
4923	44.32	-29.68	74	57.56	34.36	8.18	55.78	100	0	Peak
7386	42.38	-31.62	74	52.55	35.49	10.45	56.11	100	0	Peak

<MIMO Ant. 1+2>

Test Mode :	802.11n HT20	**Temperature :**	23~24°C
Test Channel :	01	**Relative Humidity :**	50~51%
Test Engineer :	Jet Lu	**Polarization :**	Horizontal
Remark :	1. 2414 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
2414	95.79	-	-	90.65	32.34	6.28	33.48	125	68	Average
2414	106.83	-	-	101.69	32.34	6.28	33.48	125	68	Peak
4824	39.79	-34.21	74	56.25	34.44	8.04	58.94	100	0	Peak

Test Mode :	802.11n HT20	**Temperature :**	23~24°C
Test Channel :	01	**Relative Humidity :**	50~51%
Test Engineer :	Jet Lu	**Polarization :**	Vertical
Remark :	1. 2414 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
2414	92.7	-	-	87.74	32.16	6.28	33.48	100	270	Average
2414	103.9	-	-	98.94	32.16	6.28	33.48	100	270	Peak
4824	43.32	-30.68	74	56.43	34.44	8.04	55.59	100	0	Peak

Test Mode :	802.11n HT20	Temperature :	23~24°C
Test Channel :	06	Relative Humidity :	50~51%
Test Engineer :	Jet Lu	Polarization :	Horizontal
Remark :	1. 2439 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
2439	96.99	-	-	91.63	32.49	6.34	33.47	100	286	Average
2439	108.3	-	-	102.94	32.49	6.34	33.47	100	286	Peak
4875	42.02	-31.98	74	58.38	34.4	8.11	58.87	100	0	Peak
7311	40.71	-33.29	74	53.08	35.62	10.47	58.46	100	0	Peak

Test Mode :	802.11n HT20	Temperature :	23~24°C
Test Channel :	06	Relative Humidity :	50~51%
Test Engineer :	Jet Lu	Polarization :	Vertical
Remark :	1. 2439 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
2439	91.91	-	-	86.66	32.38	6.34	33.47	156	111	Average
2439	102.39	-	-	97.14	32.38	6.34	33.47	156	111	Peak
4875	44.86	-29.14	74	58.03	34.4	8.11	55.68	100	0	Peak
7311	42.83	-31.17	74	53.08	35.56	10.47	56.28	100	0	Peak

Test Mode :	802.11n HT20	Temperature :	23~24°C
Test Channel :	11	Relative Humidity :	50~51%
Test Engineer :	Jet Lu	Polarization :	Horizontal
Remark :	1. 2464 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
77.52	32.88	-7.12	40	57.2	6.61	1.03	31.96	100	137	Peak
150.42	26.29	-17.21	43.5	46.69	9.96	1.44	31.8	-	-	Peak
268.14	36	-10	46	53.27	12.54	1.9	31.71	-	-	Peak
359.5	28.31	-17.69	46	43.16	14.67	2.19	31.71	-	-	Peak
444.2	31.8	-14.2	46	44.53	16.13	2.43	31.29	-	-	Peak
800.5	26.53	-19.47	46	34.28	19.95	3.26	30.96	-	-	Peak
2464	96.31	-	-	90.83	32.56	6.39	33.47	100	283	Average
2464	107.86	-	-	102.38	32.56	6.39	33.47	100	283	Peak
4923	42.05	-31.95	74	58.31	34.36	8.18	58.8	100	0	Peak
7386	40.3	-33.7	74	52.8	35.66	10.45	58.61	100	0	Peak

Test Mode :	802.11n HT20	Temperature :	23~24°C
Test Channel :	11	Relative Humidity :	50~51%
Test Engineer :	Jet Lu	Polarization :	Vertical
Remark :	1. 2464 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
78.6	32.08	-7.92	40	55.96	7.05	1.03	31.96	102	135	Peak
150.69	29.23	-14.27	43.5	48.35	11.24	1.44	31.8	-	-	Peak
268.68	32.68	-13.32	46	49.84	12.64	1.91	31.71	-	-	Peak
451.2	28.02	-17.98	46	40.85	15.98	2.45	31.26	-	-	Peak
600.3	27.87	-18.13	46	37.31	18.91	2.83	31.18	-	-	Peak
800.5	27.51	-18.49	46	35.28	19.93	3.26	30.96	-	-	Peak
2464	91.61	-	-	86.2	32.49	6.39	33.47	185	114	Average
2464	102.41	-	-	97	32.49	6.39	33.47	185	114	Peak
4923	45.35	-28.65	74	58.59	34.36	8.18	55.78	100	0	Peak
7386	42.53	-31.47	74	52.7	35.49	10.45	56.11	100	0	Peak

<Ant. 1>

Test Mode :	802.11n HT20	**Temperature :**	23~24°C
Test Channel :	11	**Relative Humidity :**	50~51%
Test Engineer :	Jet Lu	**Polarization :**	Horizontal
Remark :	1. 2460 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
151.5	24.66	-18.84	43.5	45.16	9.85	1.45	31.8	-	-	Peak
240.06	29.19	-16.81	46	48.24	10.89	1.8	31.74	-	-	Peak
268.14	35.13	-10.87	46	52.4	12.54	1.9	31.71	100	14	Peak
335.7	27.99	-18.01	46	43.72	13.89	2.12	31.74	-	-	Peak
442.8	29.44	-16.56	46	42.17	16.13	2.43	31.29	-	-	Peak
799.8	26.82	-19.18	46	34.57	19.95	3.26	30.96	-	-	Peak
2460	92.34	-	-	86.86	32.56	6.39	33.47	100	338	Average
2460	104.29	-	-	98.81	32.56	6.39	33.47	100	338	Peak
4923	43.66	-30.34	74	59.92	34.36	8.18	58.8	100	0	Peak
7386	41.38	-32.62	74	53.88	35.66	10.45	58.61	100	0	Peak

Test Mode :	802.11n HT20	Temperature :	23~24°C
Test Channel :	11	Relative Humidity :	50~51%
Test Engineer :	Jet Lu	Polarization :	Vertical
Remark :	1. 2464 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
127.47	31.58	-11.92	43.5	50.87	11.26	1.32	31.87	100	185	Peak
149.88	28.8	-14.7	43.5	47.92	11.24	1.44	31.8	-	-	Peak
268.68	31.63	-14.37	46	48.79	12.64	1.91	31.71	-	-	Peak
359.5	26.17	-19.83	46	41.02	14.67	2.19	31.71	-	-	Peak
456.1	27.88	-18.12	46	40.63	16.03	2.47	31.25	-	-	Peak
600.3	26.16	-19.84	46	35.6	18.91	2.83	31.18	-	-	Peak
2464	89.12	-	-	83.71	32.49	6.39	33.47	127	80	Average
2464	101.02	-	-	95.61	32.49	6.39	33.47	127	80	Peak
4923	43.47	-30.53	74	56.71	34.36	8.18	55.78	100	0	Peak
7386	42.64	-31.36	74	52.81	35.49	10.45	56.11	100	0	Peak

<Ant. 2>

Test Mode :	802.11n HT20	**Temperature :**	23~24°C
Test Channel :	11	**Relative Humidity :**	50~51%
Test Engineer :	Jet Lu	**Polarization :**	Horizontal
Remark :	1. 2464 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
92.64	29.24	-14.26	43.5	50.58	9.42	1.12	31.88	-	-	Peak
150.42	24.9	-18.6	43.5	45.3	9.96	1.44	31.8	-	-	Peak
268.41	35.46	-10.54	46	52.72	12.54	1.91	31.71	100	19	Peak
335.7	27.07	-18.93	46	42.8	13.89	2.12	31.74	-	-	Peak
454.7	29.28	-16.72	46	41.76	16.3	2.47	31.25	-	-	Peak
800.5	27.04	-18.96	46	34.79	19.95	3.26	30.96	-	-	Peak
2464	94.75	-	-	89.27	32.56	6.39	33.47	100	246	Average
2464	106.43	-	-	100.95	32.56	6.39	33.47	100	246	Peak
4923	43.49	-30.51	74	59.75	34.36	8.18	58.8	100	0	Peak
7386	40.41	-33.59	74	52.91	35.66	10.45	58.61	100	0	Peak

Test Mode :	802.11n HT20	Temperature :	23~24°C
Test Channel :	11	Relative Humidity :	50~51%
Test Engineer :	Jet Lu	Polarization :	Vertical
Remark :	1. 2460 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
149.88	28.83	-14.67	43.5	47.95	11.24	1.44	31.8	100	211	Peak
240.06	26.31	-19.69	46	45.32	10.93	1.8	31.74	-	-	Peak
268.41	31.24	-14.76	46	48.4	12.64	1.91	31.71	-	-	Peak
455.4	27.89	-18.11	46	40.64	16.03	2.47	31.25	-	-	Peak
600.3	25.62	-20.38	46	35.06	18.91	2.83	31.18	-	-	Peak
800.5	23.41	-22.59	46	31.18	19.93	3.26	30.96	-	-	Peak
2460	91.09	-	-	85.68	32.49	6.39	33.47	154	297	Average
2460	103.14	-	-	97.73	32.49	6.39	33.47	154	297	Peak
4923	45.04	-28.96	74	58.28	34.36	8.18	55.78	100	0	Peak
7386	43.05	-30.95	74	53.22	35.49	10.45	56.11	100	0	Peak

<MIMO Ant. 1+2>

Test Mode :	802.11n HT40	**Temperature :**	23~24°C
Test Channel :	03	**Relative Humidity :**	50~51%
Test Engineer :	Jet Lu	**Polarization :**	Horizontal
Remark :	1. 2424 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
2424	89.12	-	-	83.9	32.41	6.28	33.47	100	286	Average
2424	100.14	-	-	94.92	32.41	6.28	33.47	100	286	Peak
4845	40.23	-33.77	74	56.65	34.43	8.07	58.92	100	0	Peak
7266	40.18	-33.82	74	52.49	35.61	10.48	58.4	100	0	Peak

Test Mode :	802.11n HT40	**Temperature :**	23~24°C
Test Channel :	03	**Relative Humidity :**	50~51%
Test Engineer :	Jet Lu	**Polarization :**	Vertical
Remark :	1. 2424 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
2424	84.98	-	-	79.9	32.27	6.28	33.47	100	271	Average
2424	96.22	-	-	91.14	32.27	6.28	33.47	100	271	Peak
4845	43.21	-30.79	74	56.33	34.43	8.07	55.62	100	0	Peak
7266	42.39	-31.61	74	52.67	35.59	10.48	56.35	100	0	Peak

Test Mode :	802.11n HT40	Temperature :	23~24°C
Test Channel :	06	Relative Humidity :	50~51%
Test Engineer :	Jet Lu	Polarization :	Horizontal
Remark :	1. 2439 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
2439	93.57	-	-	88.21	32.49	6.34	33.47	100	289	Average
2439	104.96	-	-	99.6	32.49	6.34	33.47	100	289	Peak
4875	41.04	-32.96	74	57.4	34.4	8.11	58.87	100	0	Peak
7311	40.87	-33.13	74	53.24	35.62	10.47	58.46	100	0	Peak

Test Mode :	802.11n HT40	Temperature :	23~24°C
Test Channel :	06	Relative Humidity :	50~51%
Test Engineer :	Jet Lu	Polarization :	Vertical
Remark :	1. 2439 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
2439	89.32	-	-	84.07	32.38	6.34	33.47	155	271	Average
2439	100.46	-	-	95.21	32.38	6.34	33.47	155	271	Peak
4875	43.43	-30.57	74	56.6	34.4	8.11	55.68	100	0	Peak
7311	42.66	-31.34	74	52.91	35.56	10.47	56.28	100	0	Peak

Test Mode :	802.11n HT40	Temperature :	23~24°C
Test Channel :	09	Relative Humidity :	50~51%
Test Engineer :	Jet Lu	Polarization :	Horizontal
Remark :	1. 2454 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
106.41	33.73	-9.77	43.5	53.38	11.05	1.21	31.91	-	-	Peak
240.06	31.46	-14.54	46	50.51	10.89	1.8	31.74	-	-	Peak
268.41	36.43	-9.57	46	53.69	12.54	1.91	31.71	100	157	Peak
451.9	31.71	-14.29	46	44.27	16.24	2.46	31.26	-	-	Peak
800.5	27.89	-18.11	46	35.64	19.95	3.26	30.96	-	-	Peak
950.3	28.19	-17.81	46	34.2	20.94	3.57	30.52	-	-	Peak
2454	93.06	-	-	87.58	32.56	6.39	33.47	100	72	Average
2454	103.94	-	-	98.46	32.56	6.39	33.47	100	72	Peak
4905	41.87	-32.13	74	58.14	34.37	8.18	58.82	100	0	Peak
7356	40.58	-33.42	74	53.03	35.64	10.46	58.55	100	0	Peak

Test Mode :	802.11n HT40	Temperature :	23~24°C
Test Channel :	09	Relative Humidity :	50~51%
Test Engineer :	Jet Lu	Polarization :	Vertical
Remark :	1. 2454 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
113.16	33.46	-10.04	43.5	53.79	10.32	1.25	31.9	-	-	Peak
202.53	35.72	-7.78	43.5	56.48	9.29	1.65	31.7	100	218	Peak
268.14	32.16	-13.84	46	49.33	12.64	1.9	31.71	-	-	Peak
461.7	28.08	-17.92	46	40.66	16.18	2.48	31.24	-	-	Peak
600.3	27.09	-18.91	46	36.53	18.91	2.83	31.18	-	-	Peak
800.5	25.6	-20.4	46	33.37	19.93	3.26	30.96	-	-	Peak
2454	88.43	-	-	83.02	32.49	6.39	33.47	100	107	Average
2454	99.83	-	-	94.42	32.49	6.39	33.47	100	107	Peak
4905	43.33	-30.67	74	56.52	34.37	8.18	55.74	100	0	Peak
7356	43.67	-30.33	74	53.88	35.51	10.46	56.18	100	0	Peak

<Ant. 1>

Test Mode :	802.11n HT40	**Temperature :**	23~24°C
Test Channel :	09	**Relative Humidity :**	50~51%
Test Engineer :	Jet Lu	**Polarization :**	Horizontal
Remark :	1. 2454 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
120.72	31.18	-12.32	43.5	50.27	11.53	1.28	31.9	-	-	Peak
149.07	24.62	-18.88	43.5	44.86	10.13	1.43	31.8	-	-	Peak
268.41	35.46	-10.54	46	52.72	12.54	1.91	31.71	100	41	Peak
335.7	28.01	-17.99	46	43.74	13.89	2.12	31.74	-	-	Peak
455.4	29.64	-16.36	46	42.12	16.3	2.47	31.25	-	-	Peak
800.5	26.16	-19.84	46	33.91	19.95	3.26	30.96	-	-	Peak
2454	93.12	-	-	87.64	32.56	6.39	33.47	159	316	Average
2454	103.06	-	-	97.58	32.56	6.39	33.47	159	316	Peak
4905	43.14	-30.86	74	59.41	34.37	8.18	58.82	100	0	Peak
7356	40.57	-33.43	74	53.02	35.64	10.46	58.55	100	0	Peak

Test Mode :	802.11n HT40	Temperature :	23~24°C
Test Channel :	09	Relative Humidity :	50~51%
Test Engineer :	Jet Lu	Polarization :	Vertical
Remark :	1. 2454 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
90.75	23.91	-19.59	43.5	45.34	9.28	1.11	31.82	-	-	Peak
151.23	28.7	-14.8	43.5	47.97	11.09	1.44	31.8	-	-	Peak
268.41	32.03	-13.97	46	49.19	12.64	1.91	31.71	100	211	Peak
442.8	26.66	-19.34	46	39.62	15.9	2.43	31.29	-	-	Peak
600.3	23.62	-22.38	46	33.06	18.91	2.83	31.18	-	-	Peak
673.1	21.37	-24.63	46	30.5	18.87	2.99	30.99	-	-	Peak
2454	89.7	-	-	84.29	32.49	6.39	33.47	104	282	Average
2454	99.56	-	-	94.15	32.49	6.39	33.47	104	282	Peak
4904	47.39	-26.61	74	60.58	34.37	8.18	55.74	100	0	Peak
7356	42.47	-31.53	74	52.68	35.51	10.46	56.18	100	0	Peak

<Ant. 2>

Test Mode :	802.11n HT40	**Temperature :**	23~24°C
Test Channel :	09	**Relative Humidity :**	50~51%
Test Engineer :	Jet Lu	**Polarization :**	Horizontal
Remark :	1. 2454 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
122.34	23.68	-19.82	43.5	42.67	11.61	1.29	31.89	-	-	Peak
150.69	24.9	-18.6	43.5	45.3	9.96	1.44	31.8	-	-	Peak
268.41	33.24	-12.76	46	50.5	12.54	1.91	31.71	100	12	Peak
335.7	26.92	-19.08	46	42.65	13.89	2.12	31.74	-	-	Peak
445.6	29.45	-16.55	46	42.14	16.16	2.43	31.28	-	-	Peak
800.5	26.21	-19.79	46	33.96	19.95	3.26	30.96	-	-	Peak
2454	95.28	-	-	89.8	32.56	6.39	33.47	100	68	Average
2454	105.36	-	-	99.88	32.56	6.39	33.47	100	68	Peak
4904	40.79	-33.21	74	57.06	34.37	8.18	58.82	100	0	Peak
7356	40.99	-33.01	74	53.44	35.64	10.46	58.55	100	0	Peak

Test Mode :	802.11n HT40	Temperature :	23~24°C
Test Channel :	09	Relative Humidity :	50~51%
Test Engineer :	Jet Lu	Polarization :	Vertical
Remark :	1. 2454 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
87.24	31.83	-8.17	40	54.01	8.56	1.09	31.83	100	25	Peak
150.96	28.56	-14.94	43.5	47.68	11.24	1.44	31.8	-	-	Peak
268.68	30.52	-15.48	46	47.68	12.64	1.91	31.71	-	-	Peak
449.8	27.15	-18.85	46	40.01	15.95	2.45	31.26	-	-	Peak
600.3	27.33	-18.67	46	36.77	18.91	2.83	31.18	-	-	Peak
800.5	23.33	-22.67	46	31.1	19.93	3.26	30.96	-	-	Peak
2454	91.36	-	-	85.95	32.49	6.39	33.47	126	120	Average
2454	101.02	-	-	95.61	32.49	6.39	33.47	126	120	Peak
4904	42.37	-31.63	74	55.56	34.37	8.18	55.74	100	0	Peak
7356	43.18	-30.82	74	53.39	35.51	10.46	56.18	100	0	Peak

<Ant. 2>

Test Mode :	802.11a	**Temperature :**	23~24°C
Test Channel :	149	**Relative Humidity :**	50~51%
Test Engineer :	Jet Lu	**Polarization :**	Horizontal
Remark :	1. 5743 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
5743	92.15	-	-	81.52	34.7	9.1	33.17	100	69	Average
5743	103.14	-	-	92.51	34.7	9.1	33.17	100	69	Peak
11490	42.43	-31.57	74	48.23	38.59	12.92	57.31	100	0	Peak

Test Mode :	802.11a	**Temperature :**	23~24°C
Test Channel :	149	**Relative Humidity :**	50~51%
Test Engineer :	Jet Lu	**Polarization :**	Vertical
Remark :	1. 5743 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
5743	85.65	-	-	75.02	34.7	9.1	33.17	100	331	Average
5743	96.7	-	-	86.07	34.7	9.1	33.17	100	331	Peak
11490	40.96	-33.04	74	47.57	37.78	12.92	57.31	100	0	Peak

Test Mode :	802.11a	Temperature :	23~24°C
Test Channel :	157	Relative Humidity :	50~51%
Test Engineer :	Jet Lu	Polarization :	Horizontal
Remark :	1. 5787 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
64.29	32.23	-7.77	40	58.38	4.85	0.94	31.94	102	187	Peak
151.23	25.95	-17.55	43.5	46.46	9.85	1.44	31.8	-	-	Peak
268.68	35.23	-10.77	46	52.49	12.54	1.91	31.71	-	-	Peak
335.7	28.56	-17.44	46	44.29	13.89	2.12	31.74	-	-	Peak
444.9	31.08	-14.92	46	43.77	16.16	2.43	31.28	-	-	Peak
800.5	25.82	-20.18	46	33.57	19.95	3.26	30.96	-	-	Peak
5787	92.03	-	-	81.26	34.8	9.13	33.16	109	69	Average
5787	102.97	-	-	92.2	34.8	9.13	33.16	109	69	Peak
11571	43.67	-30.33	74	49.34	38.63	13	57.3	100	0	Peak

Test Mode :	802.11a	Temperature :	23~24°C
Test Channel :	157	Relative Humidity :	50~51%
Test Engineer :	Jet Lu	Polarization :	Vertical
Remark :	1. 5783 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
83.73	33.34	-6.66	40	56.36	7.79	1.07	31.88	102	154	Peak
113.43	30.62	-12.88	43.5	50.95	10.32	1.25	31.9	-	-	Peak
268.41	32.82	-13.18	46	49.98	12.64	1.91	31.71	-	-	Peak
445.6	27.65	-18.35	46	40.58	15.92	2.43	31.28	-	-	Peak
600.3	27.51	-18.49	46	36.95	18.91	2.83	31.18	-	-	Peak
800.5	25.49	-20.51	46	33.26	19.93	3.26	30.96	-	-	Peak
5783	85.02	-	-	74.32	34.73	9.13	33.16	100	337	Average
5783	96.18	-	-	85.48	34.73	9.13	33.16	100	337	Peak
11571	42.33	-31.67	74	48.77	37.86	13	57.3	100	0	Peak

Test Mode :	802.11a	Temperature :	23~24°C
Test Channel :	165	Relative Humidity :	50~51%
Test Engineer :	Jet Lu	Polarization :	Horizontal
Remark :	1. 5827 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
5827	93.64	-	-	82.68	34.87	9.25	33.16	108	67	Average
5827	104.44	-	-	93.48	34.87	9.25	33.16	108	67	Peak
11649	42.48	-31.52	74	48.03	38.66	13.09	57.3	100	0	Peak

Test Mode :	802.11a	Temperature :	23~24°C
Test Channel :	165	Relative Humidity :	50~51%
Test Engineer :	Jet Lu	Polarization :	Vertical
Remark :	1. 5823 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
5823	84.76	-	-	73.9	34.77	9.25	33.16	100	333	Average
5823	96.21	-	-	85.35	34.77	9.25	33.16	100	333	Peak
11649	42.71	-31.29	74	49.01	37.91	13.09	57.3	100	0	Peak

<Ant. 1>

Test Mode :	802.11a	**Temperature :**	23~24°C
Test Channel :	157	**Relative Humidity :**	50~51%
Test Engineer :	Jet Lu	**Polarization :**	Horizontal
Remark :	1. 5783 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
113.7	24.91	-18.59	43.5	44.18	11.38	1.25	31.9	-	-	Peak
149.88	24.84	-18.66	43.5	45.24	9.96	1.44	31.8	-	-	Peak
268.41	34.34	-11.66	46	51.6	12.54	1.91	31.71	100	52	Peak
335.7	28.08	-17.92	46	43.81	13.89	2.12	31.74	-	-	Peak
438.6	29.78	-16.22	46	42.54	16.13	2.42	31.31	-	-	Peak
797.7	24.39	-21.61	46	32.15	19.94	3.26	30.96	-	-	Peak
5783	93.49	-	-	82.75	34.77	9.13	33.16	127	324	Average
5783	104.83	-	-	94.09	34.77	9.13	33.16	127	324	Peak
11571	41.61	-32.39	74	47.28	38.63	13	57.3	100	0	Peak

Test Mode :	802.11a	Temperature :	23~24°C
Test Channel :	157	Relative Humidity :	50~51%
Test Engineer :	Jet Lu	Polarization :	Vertical
Remark :	1. 5783 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
149.34	28.75	-14.75	43.5	47.87	11.24	1.44	31.8	-	-	Peak
208.2	25.63	-17.87	43.5	46.32	9.34	1.68	31.71	-	-	Peak
268.14	31.31	-14.69	46	48.48	12.64	1.9	31.71	100	213	Peak
456.1	28.11	-17.89	46	40.86	16.03	2.47	31.25	-	-	Peak
600.3	27.73	-18.27	46	37.17	18.91	2.83	31.18	-	-	Peak
759.9	29.43	-16.57	46	37.44	19.72	3.17	30.9	-	-	Peak
5783	93.11	-	-	82.41	34.73	9.13	33.16	114	22	Average
5783	104.25	-	-	93.55	34.73	9.13	33.16	114	22	Peak
11571	43.3	-30.7	74	49.74	37.86	13	57.3	100	0	Peak

<MIMO Ant. 1+2>

Test Mode :	802.11n HT20	**Temperature :**	23~24°C
Test Channel :	149	**Relative Humidity :**	50~51%
Test Engineer :	Jet Lu	**Polarization :**	Horizontal
Remark :	1. 5746 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
5746	91.83	-	-	81.2	34.7	9.1	33.17	101	294	Average
5746	101.86	-	-	91.23	34.7	9.1	33.17	101	294	Peak
11490	42.58	-31.42	74	48.38	38.59	12.92	57.31	100	0	Peak

Test Mode :	802.11n HT20	**Temperature :**	23~24°C
Test Channel :	149	**Relative Humidity :**	50~51%
Test Engineer :	Jet Lu	**Polarization :**	Vertical
Remark :	1. 5743 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
5743	89.23	-	-	78.6	34.7	9.1	33.17	102	335	Average
5743	98.23	-	-	87.6	34.7	9.1	33.17	102	335	Peak
11490	41.84	-32.16	74	48.45	37.78	12.92	57.31	100	0	Peak

Test Mode :	802.11n HT20	Temperature :	23~24°C
Test Channel :	157	Relative Humidity :	50~51%
Test Engineer :	Jet Lu	Polarization :	Horizontal
Remark :	1. 5783 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
43.5	27.05	-12.95	40	47.64	10.62	0.77	31.98	-	-	Peak
125.04	31.75	-11.75	43.5	50.61	11.7	1.31	31.87	-	-	Peak
268.14	35.68	-10.32	46	52.95	12.54	1.9	31.71	102	117	Peak
335.7	29.41	-16.59	46	45.14	13.89	2.12	31.74	-	-	Peak
462.4	29.69	-16.31	46	41.99	16.44	2.49	31.23	-	-	Peak
800.5	26	-20	46	33.75	19.95	3.26	30.96	-	-	Peak
5783	91.21	-	-	80.47	34.77	9.13	33.16	100	296	Average
5783	100.67	-	-	89.93	34.77	9.13	33.16	100	296	Peak
11571	43.11	-30.89	74	48.78	38.63	13	57.3	100	0	Peak

Test Mode :	802.11n HT20	Temperature :	23~24°C
Test Channel :	157	Relative Humidity :	50~51%
Test Engineer :	Jet Lu	Polarization :	Vertical
Remark :	1. 5783 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
49.71	30.36	-9.64	40	54.13	7.31	0.83	31.91	103	231	Peak
150.69	28.53	-14.97	43.5	47.65	11.24	1.44	31.8	-	-	Peak
268.14	32.52	-13.48	46	49.69	12.64	1.9	31.71	-	-	Peak
335.7	24.09	-21.91	46	39.51	14.2	2.12	31.74	-	-	Peak
457.5	27.4	-18.6	46	40.11	16.06	2.47	31.24	-	-	Peak
600.3	26.68	-19.32	46	36.12	18.91	2.83	31.18	-	-	Peak
5783	88.21	-	-	77.51	34.73	9.13	33.16	102	336	Average
5783	97.65	-	-	86.95	34.73	9.13	33.16	102	336	Peak
11571	42.16	-31.84	74	48.6	37.86	13	57.3	100	0	Peak

Test Mode :	802.11n HT20	Temperature :	23~24°C
Test Channel :	165	Relative Humidity :	50~51%
Test Engineer :	Jet Lu	Polarization :	Horizontal
Remark :	1. 5827 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
5827	92.4	-	-	81.44	34.87	9.25	33.16	100	295	Average
5827	102.56	-	-	91.6	34.87	9.25	33.16	100	295	Peak
11649	42.09	-31.91	74	47.64	38.66	13.09	57.3	100	0	Peak

Test Mode :	802.11n HT20	Temperature :	23~24°C
Test Channel :	165	Relative Humidity :	50~51%
Test Engineer :	Jet Lu	Polarization :	Vertical
Remark :	1. 5824 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
5824	88.03	-	-	77.17	34.77	9.25	33.16	100	27	Average
5824	97.56	-	-	86.7	34.77	9.25	33.16	100	27	Peak
11649	42.48	-31.52	74	48.78	37.91	13.09	57.3	100	0	Peak

<Ant. 1>

Test Mode :	802.11n HT20	**Temperature :**	23~24°C
Test Channel :	157	**Relative Humidity :**	50~51%
Test Engineer :	Jet Lu	**Polarization :**	Horizontal
Remark :	1. 5783 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
64.83	30.97	-9.03	40	57.01	4.95	0.95	31.94	105	221	Peak
91.02	31.77	-11.73	43.5	53.38	9.13	1.11	31.85	-	-	Peak
268.14	36.85	-9.15	46	54.12	12.54	1.9	31.71	-	-	Peak
335.7	28.56	-17.44	46	44.29	13.89	2.12	31.74	-	-	Peak
444.2	30.3	-15.7	46	43.03	16.13	2.43	31.29	-	-	Peak
495.3	25.79	-20.21	46	37.44	16.95	2.57	31.17	-	-	Peak
5783	92.98	-	-	82.24	34.77	9.13	33.16	129	325	Average
5783	104.41	-	-	93.67	34.77	9.13	33.16	129	325	Peak
11571	41.55	-32.45	74	47.22	38.63	13	57.3	100	0	Peak

Test Mode :	802.11n HT20	Temperature :	23~24°C
Test Channel :	157	Relative Humidity :	50~51%
Test Engineer :	Jet Lu	Polarization :	Vertical
Remark :	1. 5783 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
42.96	33.59	-6.41	40	54.79	10.03	0.76	31.99	100	198	Peak
90.48	32.51	-10.99	43.5	53.94	9.28	1.11	31.82	-	-	Peak
267.87	32.81	-13.19	46	49.98	12.64	1.9	31.71	-	-	Peak
379.8	34.19	-11.81	46	48.48	15.06	2.25	31.6	-	-	Peak
451.9	27.92	-18.08	46	40.74	15.98	2.46	31.26	-	-	Peak
800.5	25.34	-20.66	46	33.11	19.93	3.26	30.96	-	-	Peak
5783	92.4	-	-	81.7	34.73	9.13	33.16	103	27	Average
5783	103.67	-	-	92.97	34.73	9.13	33.16	103	27	Peak
11571	41.8	-32.2	74	48.24	37.86	13	57.3	100	0	Peak

<Ant. 2>

Test Mode :	802.11n HT20	**Temperature :**	23~24°C
Test Channel :	157	**Relative Humidity :**	50~51%
Test Engineer :	Jet Lu	**Polarization :**	Horizontal
Remark :	1. 5787 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
122.88	22.86	-20.64	43.5	41.85	11.61	1.29	31.89	-	-	Peak
240.06	29.08	-16.92	46	48.13	10.89	1.8	31.74	-	-	Peak
268.14	35.62	-10.38	46	52.89	12.54	1.9	31.71	100	17	Peak
451.2	29.67	-16.33	46	42.24	16.24	2.45	31.26	-	-	Peak
760.6	24.46	-21.54	46	32.43	19.76	3.17	30.9	-	-	Peak
799.8	25.12	-20.88	46	32.87	19.95	3.26	30.96	-	-	Peak
5787	93.13	-	-	82.36	34.8	9.13	33.16	103	297	Average
5787	104.94	-	-	94.17	34.8	9.13	33.16	103	297	Peak
11571	41.89	-32.11	74	47.56	38.63	13	57.3	100	0	Peak

Test Mode :	802.11n HT20	Temperature :	23~24°C
Test Channel :	157	Relative Humidity :	50~51%
Test Engineer :	Jet Lu	Polarization :	Vertical
Remark :	1. 5783 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
94.26	24.28	-19.22	43.5	45.52	9.57	1.13	31.94	-	-	Peak
150.96	28.73	-14.77	43.5	47.85	11.24	1.44	31.8	-	-	Peak
268.41	32.57	-13.43	46	49.73	12.64	1.91	31.71	100	152	Peak
444.9	28.19	-17.81	46	41.12	15.92	2.43	31.28	-	-	Peak
600.3	28.6	-17.4	46	38.04	18.91	2.83	31.18	-	-	Peak
800.5	24.38	-21.62	46	32.15	19.93	3.26	30.96	-	-	Peak
5783	85.8	-	-	75.1	34.73	9.13	33.16	101	64	Average
5783	96.86	-	-	86.16	34.73	9.13	33.16	101	64	Peak
11571	42.47	-31.53	74	48.91	37.86	13	57.3	100	0	Peak

<MIMO Ant. 1+2>

Test Mode :	802.11n HT40	**Temperature :**	23~24°C
Test Channel :	151	**Relative Humidity :**	50~51%
Test Engineer :	Jet Lu	**Polarization :**	Horizontal
Remark :	1. 5753 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
5753	89.02	-	-	78.35	34.73	9.1	33.16	103	293	Average
5753	99.3	-	-	88.63	34.73	9.1	33.16	103	293	Peak
11511	42.32	-31.68	74	48.07	38.6	12.95	57.3	100	0	Peak

Test Mode :	802.11n HT40	**Temperature :**	23~24°C
Test Channel :	151	**Relative Humidity :**	50~51%
Test Engineer :	Jet Lu	**Polarization :**	Vertical
Remark :	1. 5753 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
5753	84.44	-	-	73.79	34.71	9.1	33.16	100	36	Average
5753	95.03	-	-	84.38	34.71	9.1	33.16	100	36	Peak
11511	42.6	-31.4	74	49.15	37.8	12.95	57.3	100	0	Peak

Test Mode :	802.11n HT40	Temperature :	23~24°C
Test Channel :	159	Relative Humidity :	50~51%
Test Engineer :	Jet Lu	Polarization :	Horizontal
Remark :	1. 5797 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
81.84	28.74	-11.26	40	52.41	7.2	1.05	31.92	-	-	Peak
150.15	25.97	-17.53	43.5	46.37	9.96	1.44	31.8	-	-	Peak
268.14	35.76	-10.24	46	53.03	12.54	1.9	31.71	102	217	Peak
359.5	28.83	-17.17	46	43.68	14.67	2.19	31.71	-	-	Peak
431.6	29.23	-16.77	46	41.91	16.26	2.4	31.34	-	-	Peak
759.9	34.08	-11.92	46	42.05	19.76	3.17	30.9	-	-	Peak
5797	89.24	-	-	78.44	34.8	9.16	33.16	100	295	Average
5797	98.89	-	-	88.09	34.8	9.16	33.16	100	295	Peak
11589	43.22	-30.78	74	48.86	38.64	13.02	57.3	100	0	Peak

Test Mode :	802.11n HT40	Temperature :	23~24°C
Test Channel :	159	Relative Humidity :	50~51%
Test Engineer :	Jet Lu	Polarization :	Vertical
Remark :	1. 5797 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
85.89	33.1	-6.9	40	55.69	8.17	1.08	31.84	100	103	Peak
149.34	28.16	-15.34	43.5	47.28	11.24	1.44	31.8	-	-	Peak
269.49	30.84	-15.16	46	48.18	12.46	1.91	31.71	-	-	Peak
359.5	27.12	-18.88	46	41.97	14.67	2.19	31.71	-	-	Peak
461.7	26.16	-19.84	46	38.74	16.18	2.48	31.24	-	-	Peak
570.2	27.36	-18.64	46	37.33	18.52	2.76	31.25	-	-	Peak
5797	85.33	-	-	74.59	34.74	9.16	33.16	102	27	Average
5797	95.88	-	-	85.14	34.74	9.16	33.16	102	27	Peak
11589	41.99	-32.01	74	48.4	37.87	13.02	57.3	100	0	Peak

<Ant .1>

Test Mode :	802.11n HT40	**Temperature :**	23~24°C
Test Channel :	159	**Relative Humidity :**	50~51%
Test Engineer :	Jet Lu	**Polarization :**	Horizontal
Remark :	1. 5795 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
61.59	28.32	-11.68	40	54.5	4.85	0.92	31.95	-	-	Peak
91.02	32.56	-10.94	43.5	54.17	9.13	1.11	31.85	107	214	Peak
268.41	34.17	-11.83	46	51.43	12.54	1.91	31.71	-	-	Peak
335.7	28.73	-17.27	46	44.46	13.89	2.12	31.74	-	-	Peak
495.3	30.9	-15.1	46	42.55	16.95	2.57	31.17	-	-	Peak
759.9	28.41	-17.59	46	36.38	19.76	3.17	30.9	-	-	Peak
5795	90.65	-	-	79.85	34.8	9.16	33.16	140	324	Average
5795	101.22	-	-	90.42	34.8	9.16	33.16	140	324	Peak
11589	41.98	-32.02	74	47.62	38.64	13.02	57.3	100	0	Peak

Test Mode :	802.11n HT40	Temperature :	23~24°C
Test Channel :	159	Relative Humidity :	50~51%
Test Engineer :	Jet Lu	Polarization :	Vertical
Remark :	1. 5797 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
42.96	29.88	-10.12	40	51.08	10.03	0.76	31.99	102	247	Peak
150.96	28.72	-14.78	43.5	47.84	11.24	1.44	31.8	-	-	Peak
268.41	31.88	-14.12	46	49.04	12.64	1.91	31.71	-	-	Peak
359.5	26.48	-19.52	46	41.33	14.67	2.19	31.71	-	-	Peak
600.3	27.2	-18.8	46	36.64	18.91	2.83	31.18	-	-	Peak
800.5	27.27	-18.73	46	35.04	19.93	3.26	30.96	-	-	Peak
5797	90.77	-	-	80.03	34.74	9.16	33.16	126	26	Average
5797	100.79	-	-	90.05	34.74	9.16	33.16	126	26	Peak
11589	41.85	-32.15	74	48.26	37.87	13.02	57.3	100	0	Peak

<Ant .2>

Test Mode :	802.11n HT40	**Temperature :**	23~24°C
Test Channel :	159	**Relative Humidity :**	50~51%
Test Engineer :	Jet Lu	**Polarization :**	Horizontal
Remark :	1. 5793 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
84.27	32.33	-7.67	40	55.14	7.98	1.07	31.86	100	122	Peak
150.42	24.33	-19.17	43.5	44.73	9.96	1.44	31.8	-	-	Peak
268.41	33.82	-12.18	46	51.08	12.54	1.91	31.71	-	-	Peak
335.7	27.11	-18.89	46	42.84	13.89	2.12	31.74	-	-	Peak
454.7	29.77	-16.23	46	42.25	16.3	2.47	31.25	-	-	Peak
800.5	25.88	-20.12	46	33.63	19.95	3.26	30.96	-	-	Peak
5793	92.49	-	-	81.69	34.8	9.16	33.16	103	296	Average
5793	102.18	-	-	91.38	34.8	9.16	33.16	103	296	Peak
11589	42.17	-31.83	74	47.81	38.64	13.02	57.3	100	0	Peak

Test Mode :	802.11n HT40	Temperature :	23~24°C
Test Channel :	159	Relative Humidity :	50~51%
Test Engineer :	Jet Lu	Polarization :	Vertical
Remark :	1. 5797 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
149.61	28.63	-14.87	43.5	47.75	11.24	1.44	31.8	-	-	Peak
209.01	24.75	-18.75	43.5	45.43	9.34	1.69	31.71	-	-	Peak
268.14	31.91	-14.09	46	49.08	12.64	1.9	31.71	100	165	Peak
454	28.08	-17.92	46	40.86	16.01	2.46	31.25	-	-	Peak
600.3	28.14	-17.86	46	37.58	18.91	2.83	31.18	-	-	Peak
800.5	25.25	-20.75	46	33.02	19.93	3.26	30.96	-	-	Peak
5797	83.91	-	-	73.17	34.74	9.16	33.16	102	64	Average
5797	93.45	-	-	82.71	34.74	9.16	33.16	102	64	Peak
11589	41.59	-32.41	74	48	37.87	13.02	57.3	100	0	Peak

3.2 AC Conducted Emission Measurement

3.2.1 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 (dBμV)	
	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.

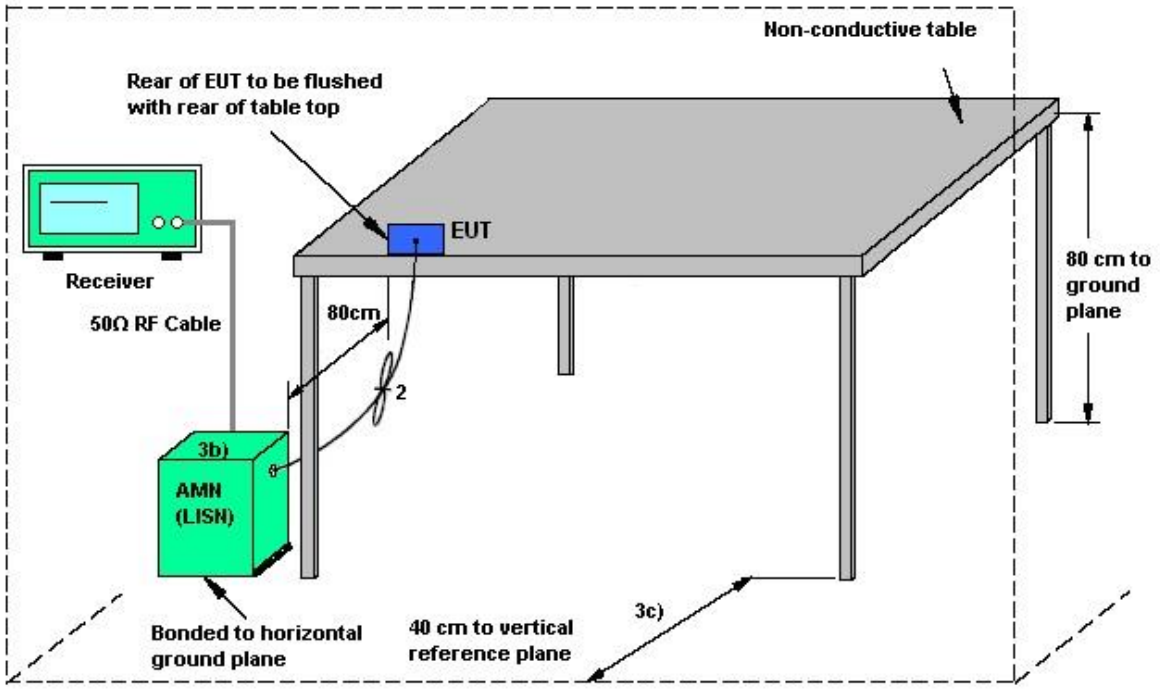
3.2.2 Measuring Instruments

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

3.2.3 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 with Maximum Hold Mode.

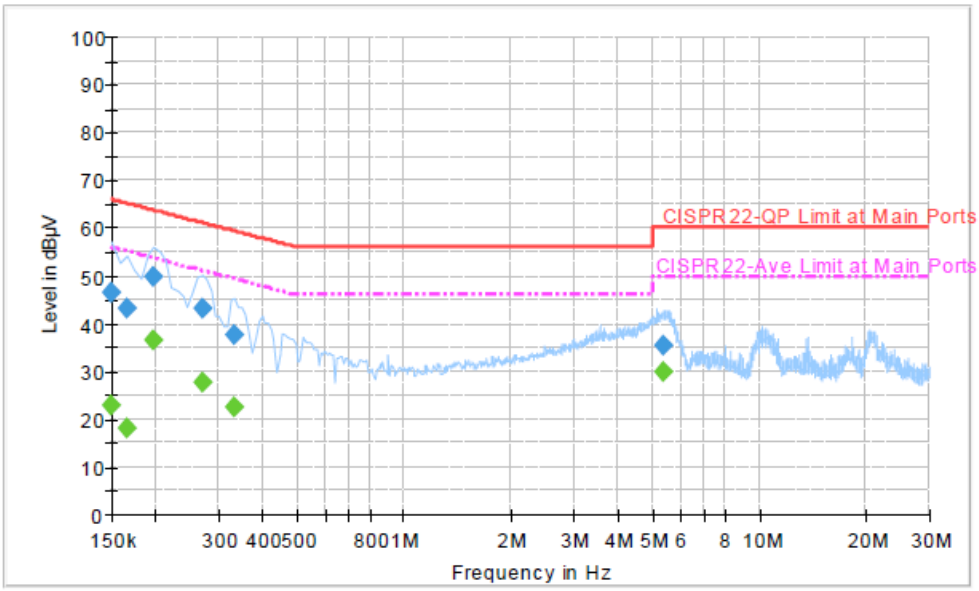
3.2.4 Test Setup



AMN = Artificial mains network (LISN)
AE = Associated equipment
EUT = Equipment under test
ISN = Impedance stabilization network

3.2.5 Test Result of AC Conducted Emission

Test Mode :	Mode 1	Temperature :	20~22℃
Test Engineer :	Kai-Chun Chu	Relative Humidity :	46~48%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	WLAN (2.4GHz) Link + Bluetooth Link + MPEG4 + Earphone + Mouse + Adapter + USB HD + H Pattern		



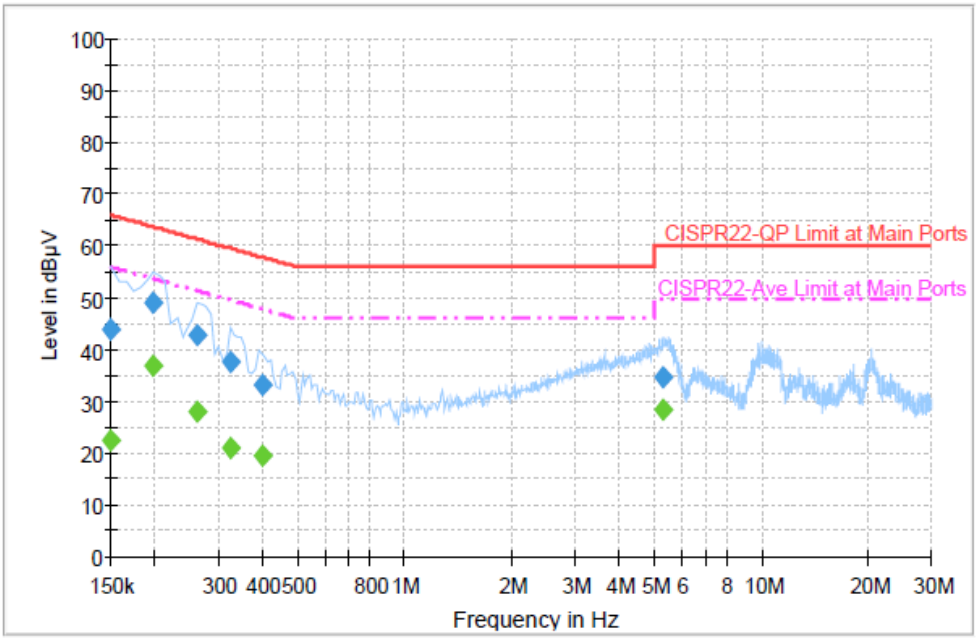
Final Result : QuasiPeak

Frequency (MHz)	QuasiPeak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	46.4	Off	L1	19.4	19.6	66.0
0.166000	43.2	Off	L1	19.4	22.0	65.2
0.198000	49.9	Off	L1	19.3	13.8	63.7
0.270000	43.1	Off	L1	19.3	18.0	61.1
0.334000	37.7	Off	L1	19.4	21.7	59.4
5.374000	35.5	Off	L1	19.6	24.5	60.0

Final Result : Average

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	23.0	Off	L1	19.4	33.0	56.0
0.166000	18.0	Off	L1	19.4	37.2	55.2
0.198000	36.5	Off	L1	19.3	17.2	53.7
0.270000	27.5	Off	L1	19.3	23.6	51.1
0.334000	22.4	Off	L1	19.4	27.0	49.4
5.374000	29.8	Off	L1	19.6	20.2	50.0

Test Mode :	Mode 1	Temperature :	20~22℃
Test Engineer :	Kai-Chun Chu	Relative Humidity :	46~48%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	WLAN (2.4GHz) Link + Bluetooth Link + MPEG4 + Earphone + Mouse + Adapter + USB HD + H Pattern		



Final Result : QuasiPeak

Frequency (MHz)	QuasiPeak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	43.8	Off	N	19.4	22.2	66.0
0.198000	49.1	Off	N	19.3	14.6	63.7
0.262000	42.7	Off	N	19.4	18.7	61.4
0.326000	37.5	Off	N	19.4	22.1	59.6
0.398000	33.0	Off	N	19.5	24.9	57.9
5.326000	34.6	Off	N	19.6	25.4	60.0

Final Result : Average

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	22.4	Off	N	19.4	33.6	56.0
0.198000	37.0	Off	N	19.3	16.7	53.7
0.262000	28.2	Off	N	19.4	23.2	51.4
0.326000	21.0	Off	N	19.4	28.6	49.6
0.398000	19.5	Off	N	19.5	28.4	47.9
5.326000	28.5	Off	N	19.6	21.5	50.0

3.3 Antenna Requirements

3.3.1 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.

3.3.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.3.3 Antenna Gain

FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

For CDD transmissions, directional gain is calculated as

$$Directional Gain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

N_{SS} = the number of independent spatial streams of data;

N_{ANT} = the total number of antennas

$g_{j,k} = 10^{G_k / 20}$ if the kth antenna is being fed by spatial stream j, or zero if it is not;

G_k is the gain in dBi of the kth antenna.

The EUT supports CDD mode.

The power and PSD limit should be modified if the directional gain of EUT is over 6 dBi,

The directional gain “DG” is calculated as following table.

	Ant 1 (dBi)	Ant 2 (dBi)	for Power (dBi)	for PSD (dBi)	Limit Reduction (dB)	Limit Reduction (dB)
2.4 GHz	-0.44	-0.95	2.32	2.32	0.00	0.00
5 GHz	1.14	0.48	3.83	3.83	0.00	0.00

Power Limit Reduction = DG(Power) – 6dBi, (min = 0)

PSD Limit Reduction = DG(PSD) – 6dBi, (min = 0)

4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	Rohde & Schwarz	FSP40	100055	9kHz~40GHz	Jun. 07, 2013	Oct. 03, 2013 ~ Oct. 19, 2013	Jun. 06, 2014	Conducted (TH02-HY)
Power Meter	Anritsu	ML2495A	1036004	300MHz~40GHz	Aug. 17, 2013	Oct. 03, 2013 ~ Oct. 19, 2013	Aug. 16, 2014	Conducted (TH02-HY)
Power Sensor	Anritsu	MA2411B	1027253	300MHz~40GHz	Aug. 17, 2013	Oct. 03, 2013 ~ Oct. 19, 2013	Aug. 16, 2014	Conducted (TH02-HY)
EMI Test Receiver	Rohde & Schwarz	ESCS 30	100356	9kHz ~ 2.75GHz	Nov. 13, 2012	Oct. 18, 2013	Nov. 12, 2013	Conduction (CO05-HY)
Two-LISN (for auxiliary equipment)	Rohde & Schwarz	ENV216	100081	9kHz ~ 30MHz	Dec. 12, 2012	Oct. 18, 2013	Dec. 11, 2013	Conduction (CO05-HY)
Two-LISN	Rohde & Schwarz	ENV216	100080	9kHz ~ 30MHz	Dec. 06, 2012	Oct. 18, 2013	Dec. 05, 2013	Conduction (CO05-HY)
AC Power Source	APC	APC-1000W	N/A	N/A	N/A	Oct. 18, 2013	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESU26	100472	20Hz – 26.5GHz	Jan. 23, 2013	Oct. 29, 2013 ~ Oct. 31, 2013	Jan. 22, 2014	Radiation (03CH08-HY)
Bilog Antenna	Teseq GmbH	CBL6112D	35379	30MHz~2GHz	Oct. 10, 2013	Oct. 29, 2013 ~ Oct. 31, 2013	Oct. 09, 2014	Radiation (03CH08-HY)
Horn Antenna	ESCO	3117	000143261	1GHz~18GHz	Jan. 08, 2013	Oct. 29, 2013 ~ Oct. 31, 2013	Jan. 07, 2014	Radiation (03CH08-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170251	18GHz~40GHz	Oct. 03, 2013	Oct. 29, 2013 ~ Oct. 31, 2013	Oct. 02, 2014	Radiation (03CH08-HY)
Amplifier	SONOMA	310N	187231	9kHz~1GHz	May 15, 2013	Oct. 29, 2013 ~ Oct. 31, 2013	May 14, 2014	Radiation (03CH08-HY)
Pre Amplifier	EMC INSTRUMENT	EMC011830	980148	100MHz~18GHz	Jun. 21, 2013	Oct. 29, 2013 ~ Oct. 31, 2013	Jun. 20, 2014	Radiation (03CH08-HY)
Pre Amplifier	Agilent	8449B	3008A02665	1GHz~26.5GHz	Sep. 04, 2013	Oct. 29, 2013 ~ Oct. 31, 2013	Sep. 03, 2014	Radiation (03CH08-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	860004/0001	9 kHz~30 MhZ	Jul. 03, 2012	Oct. 29, 2013 ~ Oct. 31, 2013	Jul. 03, 2014	Radiation (03CH08-HY)
Turn Table	Chaintek	Chaintek 3000	N/A	0~360 Degree	N/A	Oct. 29, 2013 ~ Oct. 31, 2013	N/A	Radiation (03CH08-HY)
Antenna Mast	MF	MFA520BS	N/A	1m~4m	N/A	Oct. 29, 2013 ~ Oct. 31, 2013	N/A	Radiation (03CH08-HY)

5 Uncertainty of Evaluation

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

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

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**4.3**