



# FCC RF Test Report

**APPLICANT** : LG Electronics Inc.  
**EQUIPMENT** : Mobile Phone  
**BRAND NAME** : LG  
**MODEL NAME** : LG-D805, LG-D806  
**FCC ID** : ZNFD805  
**STANDARD** : FCC Part 15 Subpart E §15.407  
**CLASSIFICATION** : (NII) Unlicensed National Information Infrastructure

The product was received on Jun. 28, 2013 and completely tested on Jul. 23, 2013. We, SPORTON INTERNATIONAL 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 INC., the test report shall not be reproduced except in full.

Reviewed by: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager



## SPORTON INTERNATIONAL INC.

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FCC ID : ZNFD805

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# TABLE OF CONTENTS

**REVISION HISTORY ..... 3**

**SUMMARY OF TEST RESULT ..... 4**

**1 GENERAL DESCRIPTION ..... 5**

    1.1 Applicant ..... 5

    1.2 Manufacturer ..... 5

    1.3 Feature of Equipment Under Test ..... 5

    1.4 Product Specification of Equipment Under Test ..... 6

    1.5 Testing Site ..... 7

    1.6 Applied Standards ..... 7

**2 TEST CONFIGURATION OF EQUIPMENT UNDER TEST ..... 8**

    2.1 Carrier Frequency Channel ..... 9

    2.2 Pre-Scanned RF Power ..... 10

    2.3 Test Mode ..... 11

    2.4 Connection Diagram of Test System ..... 14

    2.5 Support Unit used in test configuration and system ..... 15

    2.6 Description of RF Function Operation Test Setup ..... 15

    2.7 Measurement Results Explanation Example ..... 15

**3 TEST RESULT ..... 16**

    3.1 26dB & 99% Occupied Bandwidth Measurement ..... 16

    3.2 Maximum Conducted Output Power Measurement ..... 23

    3.3 Power Spectral Density Measurement ..... 29

    3.4 Peak Excursion Ratio Measurement ..... 36

    3.5 Unwanted Radiated Emission Measurement ..... 40

    3.6 AC Conducted Emission Measurement ..... 125

    3.7 Frequency Stability Measurement ..... 129

    3.8 Automatically Discontinue Transmission ..... 134

    3.9 Antenna Requirements ..... 135

**4 LIST OF MEASURING EQUIPMENTS ..... 136**

**5 UNCERTAINTY OF EVALUATION ..... 137**

**APPENDIX A. SETUP PHOTOGRAPHS**





## SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.1	15.403(i)	RSS-210 A9.2	26dB & 99% Bandwidth	-	Pass	-
3.2	15.407(a)	RSS-210 A9.2	Maximum Conducted Output Power	≤ 17, 24, 30 dBm (depend on band)	Pass	-
3.3	15.407(a)	RSS-210 A9.2	Power Spectral Density	≤ 4, 11, 17 dBm (depend on band)	Pass	-
3.4	15.407(a)(6)	RSS-210 A9.3	Peak Excursion Ratio	≤ 13dB	Pass	-
3.5	15.407(b)	RSS-210 A9.3	Unwanted Emissions	≤ -17, -27 dBm (depend on band)&15.209(a)	Pass	Under limit 3.63 dB at 11589.000 MHz
3.6	15.207	RSS-Gen 7.2.4	AC Conducted Emission	15.207(a)	Pass	Under limit 12.20 dB at 2.438 MHz
3.7	15.407(g)	-	Frequency Stability	Within Operation Band	Pass	-
3.8	15.407(c)	RSS-210 A9.4	Automatically Discontinue Transmission	Discontinue Transmission	Pass	-
3.9	15.203 & 15.407(a)	RSS-210 A9.2	Antenna Requirement	N/A	Pass	-



# 1 General Description

## 1.1 Applicant

LG Electronics Inc.

60-39, Kasan-dong, Kumchon-gu, Seoul 135-801, Korea

## 1.2 Manufacturer

LG Electronics Inc.

60-39, Kasan-dong, Kumchon-gu, Seoul 135-801, Korea

## 1.3 Feature of Equipment Under Test

Product Feature & Specification	
Equipment	Mobile Phone
Brand Name	LG
Model Name	LG-D805, LG-D806
FCC ID	ZNFD805
EUT supports Radios application	GSM/EGPRS/WCDMA/HSPA/LTE/ WLAN 2.4GHz 802.11b/g/n/ac WLAN 5GHz 802.11a/n/ac/ Bluetooth 3.0/4.0+LE / NFC
HW Version	Rev.d
SW Version	D80508a
EUT Stage	Production Unit

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



### 1.4 Product Specification of Equipment Under Test

Product Specification subjective to this standard	
<b>Tx/Rx Frequency Range</b>	5180 MHz ~ 5240 MHz 5260 MHz ~ 5320 MHz 5500 MHz ~ 5580 MHz and 5660 MHz ~ 5720 MHz 5745 MHz ~5825MHz.
<b>Maximum Output Power to Antenna</b>	<p><b>&lt;5180 MHz ~ 5240 MHz&gt;</b>            802.11a : 12.18 dBm / 0.0165 W            802.11n HT20 : 11.17 dBm / 0.0131 W            802.11n HT40 : 10.85 dBm / 0.0122 W            802.11ac VHT20 : 10.07 dBm / 0.0102 W            802.11ac VHT40 : 10.28 dBm / 0.0107 W            802.11ac VHT80 : 10.35 dBm / 0.0108 W</p> <p><b>&lt;5260 MHz ~ 5320 MHz&gt;</b>            802.11a : 12.27 dBm / 0.0169 W            802.11n HT20 : 11.44 dBm / 0.0139 W            802.11n HT40 : 11.00 dBm / 0.0126 W            802.11ac VHT20 : 10.54 dBm / 0.0113 W            802.11ac VHT40 : 10.75 dBm / 0.0119 W            802.11ac VHT80 : 10.43 dBm / 0.0110 W</p> <p><b>&lt;5500 MHz ~ 5580 MHz and 5660 MHz ~ 5725 MHz &gt;</b>            802.11a : 12.25 dBm / 0.0168 W            802.11n HT20 : 11.51 dBm / 0.0142 W            802.11n HT40 : 11.08 dBm / 0.0128 W            802.11ac VHT20 : 10.96 dBm / 0.0125 W            802.11ac VHT40 : 10.49 dBm / 0.0112 W            802.11ac VHT80 : 11.05 dBm / 0.0127 W</p> <p><b>&lt;5745 MHz ~5825MHz&gt;</b>            802.11a : 12.01 dBm / 0.0159 W            802.11n HT20 : 11.15 dBm / 0.0130 W            802.11n HT40 : 11.03 dBm / 0.0127 W            802.11ac VHT20 : 10.29 dBm / 0.0107 W            802.11ac VHT40 : 10.25 dBm / 0.0106 W            802.11ac VHT80 : 10.35 dBm / 0.0108 W</p>
<b>99% Occupied Bandwidth</b>	802.11a : 18.05 MHz 802.11n HT20 : 18.80 MHz 802.11n HT40 : 36.81 MHz 802.11ac VHT20 : 18.85 MHz 802.11ac VHT40 : 36.72 MHz 802.11ac VHT80 : 76.08 MHz
<b>Antenna Type</b>	<p><b>&lt;5180 MHz ~ 5240 MHz&gt;</b>            PIFA Antenna with gain -1.27 dBi</p> <p><b>&lt;5260 MHz ~ 5320 MHz&gt;</b>            PIFA Antenna with gain -1.27 dBi</p> <p><b>&lt;5500 MHz ~ 5580 MHz and 5660 MHz ~ 5725 MHz &gt;</b>            PIFA Antenna with gain -1.27 dBi</p> <p><b>&lt;5745 MHz ~5825MHz&gt;</b>            PIFA Antenna with gain -1.27 dBi</p>
<b>Type of Modulation</b>	OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)

## 1.5 Testing Site

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

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 E
- ♦ FCC KDB 789033 D01 General UNII Test Procedures v01r03
- ♦ ANSI C63.4-2003
- ♦ FCC KDB 644545 D01 Guidance for IEEE 802 11ac v01r01
- ♦ FCC KDB 644545 D02 Alternative Guidance for IEEE 802 11ac v01

**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 tests and radiated tests shown in section 2.3.



## 2.1 Carrier Frequency Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
Band 1	36	5180	44	5220
	38	5190	46	5230
	40	5200	48	5240
	42	5210	-	-

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
Band 2	52	5260	60	5300
	54	5270	62	5310
	56	5280	64	5320
	58	5290	-	-

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5470-5600 MHz and 5650-5725 MHz Band 3	100	5500	132	5660
	102	5510	134	5670
	104	5520	136	5680
	106	5530	138	5690
	108	5540	140	5700
	110	5550	142	5710
	112	5560	144	5720
	116	5580	-	-

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
Band 4	138	5690	155	5775
	142	5710	157	5785
	144	5720	159	5795
	149	5745	161	5805
	151	5755	165	5825
	153	5765	-	-



## 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. Final Output Power equals to Measured Output Power adds the duty factor.

5GHz 802.11a mode								
Data Rate (MHz)	6M bps	9M bps	12M bps	18M bps	24M bps	36M bps	48M bps	54M bps
Average Power (dBm)	12.27	12.17	12.16	12.17	12.06	12.05	12.17	12.06

5GHz 802.11n HT20 mode									
Data Rate (MHz)		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Average Power (dBm)	400GI	11.48	11.44	11.45	11.46	11.46	11.45	11.47	11.46
	800GI	11.51	11.50	11.47	11.48	11.47	11.50	11.45	11.47

5GHz 802.11n HT40 mode									
Data Rate (MHz)		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Average Power (dBm)	400GI	11.06	11.02	11.02	10.86	11.05	11.00	10.97	10.81
	800GI	11.08	11.01	10.96	10.78	10.87	10.84	10.82	10.78

5GHz 802.11ac VHT20 mode										
Data Rate (MHz)		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8
Average Power (dBm)	400GI	10.68	10.57	10.51	10.53	10.56	10.56	10.54	10.58	10.44
	800GI	10.96	10.80	10.73	10.72	10.72	10.75	10.74	10.71	10.62

5GHz 802.11ac VHT40 mode											
Data Rate (MHz)		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
Average Power (dBm)	400GI	10.54	10.53	10.41	10.46	10.49	10.52	10.52	10.48	10.46	10.32
	800GI	10.75	10.74	10.60	10.61	10.72	10.69	10.68	10.67	10.55	10.72

5GHz 802.11ac VHT80 mode											
Data Rate (MHz)		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
Average Power (dBm)	400GI	10.99	10.80	10.84	10.98	10.96	10.98	10.95	10.85	10.97	10.97
	800GI	11.05	10.80	10.79	11.00	10.92	10.92	10.88	10.94	10.98	10.97

### 2.3 Test Mode

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

Test Cases				
Conducted TCs	Test Items	Mode	Data rate	Test Channel
	26dB and 99% BW Power Spectral Density	802.11a	6 Mbps	L/M/H/Straddle
		802.11n HT20	MCS0	L/M/H/Straddle
		802.11n HT40	MCS0	L/M/H/Straddle
		802.11ac VHT20	MCS0	L/M/H/Straddle
		802.11ac VHT40	MCS0	L/M/H/Straddle
		802.11ac VHT80	MCS0	M/Straddle
	Output Power	802.11a	6 Mbps	L/M/H/Straddle
		802.11n HT20	MCS0	L/M/H/Straddle
		802.11n HT40	MCS0	L/M/H/Straddle
		802.11ac VHT20	MCS0	L/M/H/Straddle
		802.11ac VHT40	MCS0	L/M/H/Straddle
		802.11ac VHT80	MCS0	M/Straddle
	Peak Excursion	802.11a	6 Mbps	L/M/H/Straddle
		802.11n HT20	MCS0	L/M/H/Straddle
		802.11n HT40	MCS0	L/M/H/Straddle
		802.11ac VHT20	MCS0	L/M/H/Straddle
		802.11ac VHT40	MCS0	L/M/H/Straddle
		802.11ac VHT80	MCS0	M/Straddle
	Frequency Stability	802.11a	6 Mbps	L/M/H/Straddle
		802.11n HT20	MCS0	L/M/H/Straddle
		802.11n HT40	MCS0	L/M/H/Straddle
		802.11ac VHT20	MCS0	L/M/H/Straddle
		802.11ac VHT40	MCS0	L/M/H/Straddle
802.11ac VHT80		MCS0	M/Straddle	



Test Cases				
	Test Items	Mode	Data rate	Test Channel
Radiated TCs	Radiated Band Edge	802.11a	6 Mbps	L/H
		802.11n HT20	MCS0	L/H
		802.11n HT40	MCS0	L/H
		802.11ac VHT80	MCS0	M
	Radiated Spurious Emission	802.11a	6 Mbps	L/M/H/Straddle
		802.11n HT20	MCS0	L/M/H/Straddle
		802.11n HT40	MCS0	L/M/H/Straddle
		802.11ac VHT20	MCS0	Straddle
		802.11ac VHT40	MCS0	Straddle
		802.11ac VHT80	MCS0	M/Straddle
AC Conducted Emission	Mode 1 : GSM850 Idle + Bluetooth Link + WLAN (5GHz) Link + MP3 + Earphone + USB Cable (Charging from Adapter)			

**Note:** Radiated test for VHT20 and VHT40 is covered by HT20 and HT40 due to similar RF characteristic and worse power comparison decision.



Ch. #		Band 1	Band 2	Band 3	Band 4
		802.11a	802.11a	802.11a	802.11a
L	Low	36	52	100	149
M	Middle	44	60	116	157
H	High	48	64	140	165
Straddle		-	-	144	

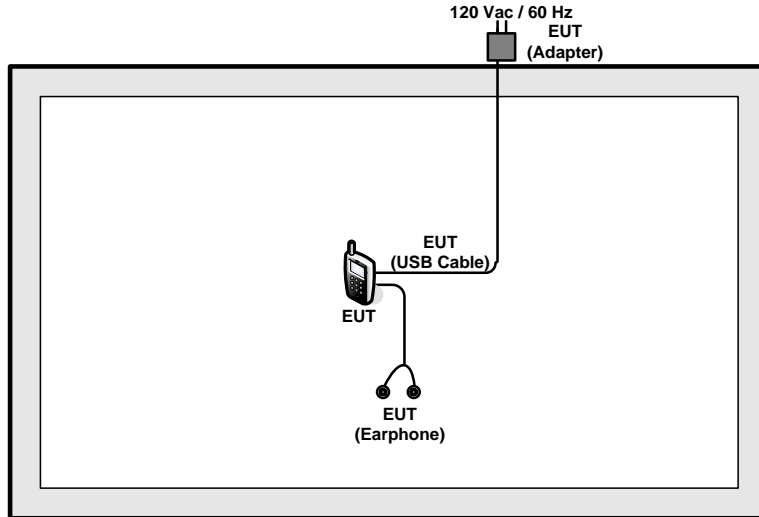
Ch. #		Band 1	Band 2	Band 3	Band 4
		802.11n HT20/ 802.11ac VHT20	802.11n HT20/ 802.11ac VHT20	802.11n HT20/ 802.11ac VHT20	802.11n HT20/ 802.11ac VHT20
L	Low	36	52	100	149
M	Middle	44	60	116	157
H	High	48	64	140	165
Straddle		-	-	144	

Ch. #		Band 1	Band 2	Band 3	Band 4
		802.11n HT40/ 802.11ac VHT40	802.11n HT40/ 802.11ac VHT40	802.11n HT40/ 802.11ac VHT40	802.11n HT40/ 802.11ac VHT40
L	Low	38	54	102	151
M	Middle	-	-	110	-
H	High	46	62	134	159
Straddle		-	-	142	

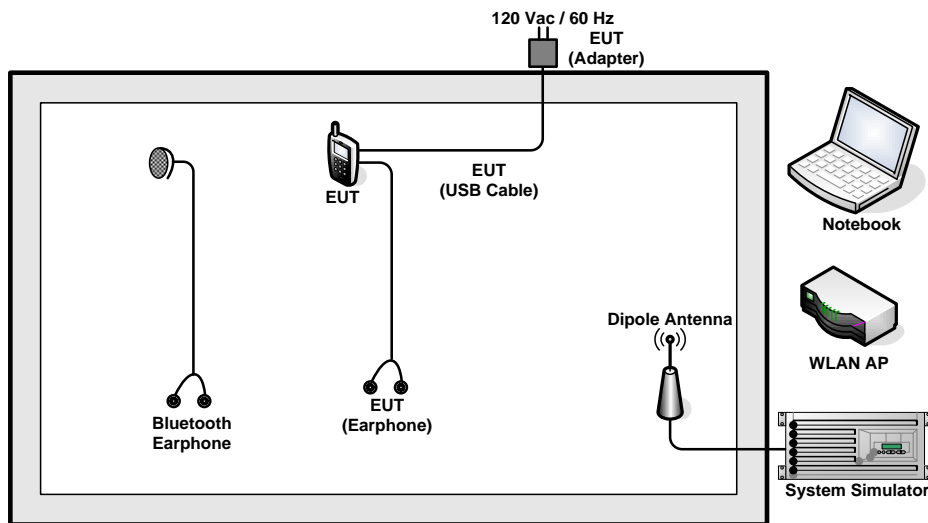
Ch. #		Band 1	Band 2	Band 3	Band 4
		802.11ac VHT80	802.11ac VHT80	802.11ac HT80	802.11ac VHT80
M	Middle	42	58	106	155
Straddle		-	-	138	

## 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.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
3.	WLAN AP	D-Link	DIR-628	KA2DIR628A2	N/A	Unshielded, 1.8 m
4.	Notebook	DELL	Latitude E6320	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
5.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A

## 2.6 Description of RF Function Operation Test Setup

For WLAN function, the EUT will get into the engineering modes with supplied software to contact with WLAN AP for continuous transmitting and receiving signals.

## 2.7 Measurement Results Explanation Example

For all conducted test items:

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

Example :

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

*Offset = RF cable loss + attenuator factor.*

Following shows an offset computation example with cable loss 4.2 dB and 10dB attenuator.

$$\begin{aligned}
 \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\
 &= 4.2 + 10 = 14.2 \text{ (dB)}
 \end{aligned}$$



### **3 Test Result**

#### **3.1 26dB & 99% Occupied Bandwidth Measurement**

##### **3.1.1 Description of Bandwidth Measurement**

There is no restriction limits for bandwidth. The maximum conducted output power can be limited by measured emission bandwidth (B). For the band 5150-5250 MHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 50 mW (17dBm) or 4 dBm + 10log B. For the bands 5250-5350 MHz and 5470-5600 MHz and 5650-5725MHz, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW (24dBm) or 11 dBm + 10log B. For the band 5725-5825 MHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 1 W (30dBm) or 17 dBm + 10log B. U-NII procedures and limits were applied for operations in the frequency band from 5.725-5.850 GHz in accordance with FCC KDB 654545 D02

##### **3.1.2 Measuring Instruments**

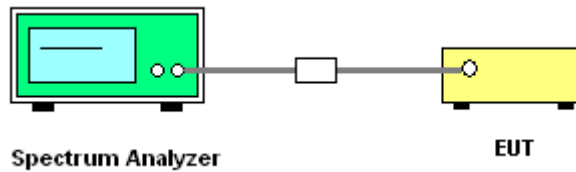
See list of measuring instruments of this test report.



### 3.1.3 Test Procedures

1. The testing follows FCC KDB 789033 D01 General UNII Test Procedures v01r03.  
Section D) Emission bandwidth
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 26 dB down from the peak of the emission.  
Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.
7. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1MHz and set the Video bandwidth (VBW)  $\geq 3 * \text{RBW}$ .
8. Measure and record the results in the test report.

### 3.1.4 Test Setup





3.1.5 Test Result of 26dB Bandwidth Plots

Test Band :	5GHz band 1	Temperature :	24~26°C
Test Engineer :	Coyote Lin	Relative Humidity :	55~58%

Mod.	Data Rate	N <sub>TX</sub>	Channel	Freq. (MHz)	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	IC 99% Bandwidth EIRP Limit (dBm)	FCC 26dB Bandwidth Power Limit (dBm)
11a	6Mbps	1	36	5180	17.85	20.75	22.52	17.00
11a	6Mbps	1	44	5220	17.80	20.85	22.50	17.00
11a	6Mbps	1	48	5240	17.90	20.85	22.53	17.00
HT20	MCS0	1	36	5180	18.75	21.15	22.73	17.00
HT20	MCS0	1	44	5220	18.75	21.20	22.73	17.00
HT20	MCS0	1	48	5240	18.65	21.05	22.71	17.00
HT40	MCS0	1	38	5190	36.72	41.31	23.00	17.00
HT40	MCS0	1	46	5230	36.63	41.22	23.00	17.00
VHT20	MCS0	1	36	5180	18.70	21.15	22.72	17.00
VHT20	MCS0	1	44	5220	18.70	21.05	22.72	17.00
VHT20	MCS0	1	48	5240	18.75	21.10	22.73	17.00
VHT40	MCS0	1	38	5190	36.63	41.31	23.00	17.00
VHT40	MCS0	1	46	5230	36.63	41.49	23.00	17.00
VHT80	MCS0	1	42	5210	75.72	83.28	23.00	17.00



<b>Test Band :</b>	5GHz band 2	<b>Temperature :</b>	24~26°C
<b>Test Engineer :</b>	Coyote Lin	<b>Relative Humidity :</b>	55~58%

Mod.	Data Rate	N <sub>TX</sub>	Channel	Freq. (MHz)	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	IC 99% Bandwidth EIRP Limit (dBm)	FCC 26dB Bandwidth Power Limit (MHz)
11a	6Mbps	1	52	5260	17.75	20.85	29.49	24.00
11a	6Mbps	1	60	5300	17.85	20.80	29.52	24.00
11a	6Mbps	1	64	5320	18.05	20.80	29.56	24.00
HT20	MCS0	1	52	5260	18.65	21.00	29.71	24.00
HT20	MCS0	1	60	5300	18.60	21.00	29.70	24.00
HT20	MCS0	1	64	5320	18.70	21.25	29.72	24.00
HT40	MCS0	1	54	5270	36.63	41.22	30.00	24.00
HT40	MCS0	1	62	5310	36.63	41.22	30.00	24.00
VHT20	MCS0	1	52	5260	18.75	21.20	29.73	24.00
VHT20	MCS0	1	60	5300	18.65	21.15	29.71	24.00
VHT20	MCS0	1	64	5320	18.75	21.15	29.73	24.00
VHT40	MCS0	1	54	5270	36.63	41.31	30.00	24.00
VHT40	MCS0	1	62	5310	36.63	41.22	30.00	24.00
VHT80	MCS0	1	58	5290	76.08	82.92	30.00	24.00



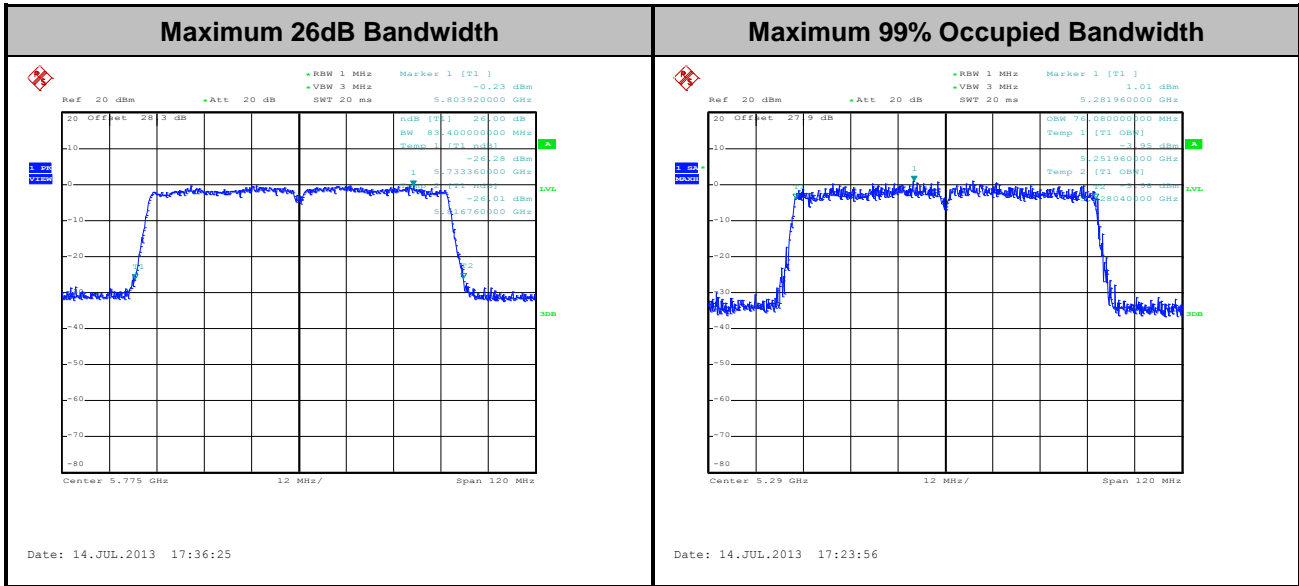
Test Band :	5GHz band 3	Temperature :	24~26°C
Test Engineer :	Coyote Lin	Relative Humidity :	55~58%

Mod.	Data Rate	N <sub>TX</sub>	Channel	Freq. (MHz)	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	IC 99% Bandwidth EIRP Limit (dBm)	26dB Bandwidth Power Limit (MHz)
11a	6Mbps	1	100	5500	17.85	20.95	29.52	24.00
11a	6Mbps	1	116	5580	17.85	20.90	29.52	24.00
11a	6Mbps	1	140	5700	17.85	20.95	29.52	24.00
11a	6Mbps	1	144	5720	14.00	15.40	29.55	22.88
HT20	MCS0	1	100	5500	18.80	21.15	29.74	24.00
HT20	MCS0	1	116	5580	18.70	20.90	29.72	24.00
HT20	MCS0	1	140	5700	18.75	21.20	29.73	24.00
HT20	MCS0	1	144	5720	14.35	15.50	29.72	22.90
HT40	MCS0	1	102	5510	36.63	41.40	30.00	24.00
HT40	MCS0	1	110	5550	36.63	41.40	30.00	24.00
HT40	MCS0	1	134	5670	36.63	41.49	30.00	24.00
HT40	MCS0	1	142	5710	33.36	35.70	30.00	24.00
VHT20	MCS0	1	100	5500	18.70	21.10	29.72	24.00
VHT20	MCS0	1	116	5580	18.65	21.25	29.71	24.00
VHT20	MCS0	1	140	5700	18.70	21.15	29.72	24.00
VHT20	MCS0	1	144	5720	14.40	15.60	29.72	22.93
VHT40	MCS0	1	102	5510	36.63	41.40	30.00	24.00
VHT40	MCS0	1	110	5550	36.72	41.58	30.00	24.00
VHT40	MCS0	1	134	5670	36.63	41.40	30.00	24.00
VHT40	MCS0	1	142	5710	33.45	35.70	30.00	24.00
VHT80	MCS0	1	106	5530	75.96	82.80	30.00	24.00
VHT80	MCS0	1	138	5690	72.98	76.40	30.00	24.00



Test Band :	5GHz band 4	Temperature :	24~26°C
Test Engineer :	Coyote Lin	Relative Humidity :	55~58%

Mod.	Data Rate	N <sub>TX</sub>	Channel	Freq. (MHz)	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	IC 99% Bandwidth EIRP Limit (dBm)	26dB Bandwidth Power Limit (MHz)
11a	6Mbps	1	144	5720	4.00	5.45	35.55	24.36
11a	6Mbps	1	149	5745	17.90	21.00	35.53	30.00
11a	6Mbps	1	157	5765	17.85	21.00	35.52	30.00
11a	6Mbps	1	165	5825	17.90	20.90	35.53	30.00
HT20	MCS0	1	144	5720	4.35	5.50	35.72	24.40
HT20	MCS0	1	149	5745	18.65	21.20	35.71	30.00
HT20	MCS0	1	157	5765	18.75	21.10	35.73	30.00
HT20	MCS0	1	165	5825	18.70	21.15	35.72	30.00
HT40	MCS0	1	142	5710	3.27	5.61	36.00	24.49
HT40	MCS0	1	151	5755	36.63	41.22	36.00	30.00
HT40	MCS0	1	159	5795	36.81	41.67	36.00	30.00
VHT20	MCS0	1	144	5720	4.30	5.55	35.72	24.44
VHT20	MCS0	1	149	5745	18.75	21.05	35.73	30.00
VHT20	MCS0	1	157	5765	18.85	21.00	35.75	30.00
VHT20	MCS0	1	165	5825	18.75	21.25	35.73	30.00
VHT40	MCS0	1	142	5710	3.27	5.52	36.00	24.42
VHT40	MCS0	1	151	5755	36.72	41.67	36.00	30.00
VHT40	MCS0	1	159	5795	36.63	41.22	36.00	30.00
VHT80	MCS0	1	138	5690	2.98	6.67	36.00	25.24
VHT80	MCS0	1	155	5775	75.96	83.40	36.00	30.00



Test Band :	Straddle Channel	Temperature :	24~26°C
Test Engineer :	Coyote Lin	Relative Humidity :	55~58%

Mod.	Data Rate	N <sub>TX</sub>	Channel	Freq. (MHz)	26dB Bandwidth (MHz)		
					Band 3	Band 4	Total
11a	6Mbps	1	144	5720	15.40	5.45	20.85
HT20	MCS0	1	144	5720	15.50	5.50	21.00
HT40	MCS0	1	142	5710	35.70	5.61	41.31
VHT20	MCS0	1	144	5720	15.60	5.55	21.15
VHT40	MCS0	1	142	5710	35.70	5.52	41.22
VHT80	MCS0	1	138	5690	76.40	6.67	83.07
Mod.	Data Rate	N <sub>TX</sub>	Channel	Freq. (MHz)	99% Occupied Bandwidth (MHz)		
					Band 3	Band 4	Total
11a	6Mbps	1	144	5720	14.00	4.00	18.00
HT20	MCS0	1	144	5720	14.35	4.35	18.70
HT40	MCS0	1	142	5710	33.36	3.27	36.63
VHT20	MCS0	1	144	5720	14.40	4.30	18.70
VHT40	MCS0	1	142	5710	33.45	3.27	36.72
VHT80	MCS0	1	138	5690	72.98	2.98	75.96

## 3.2 Maximum Conducted Output Power Measurement

### 3.2.1 Limit of Maximum Conducted Output Power

For the band 5150-5250 MHz, the maximum conducted output power shall not exceed the lesser of 50 mW (17dBm) or  $4 \text{ dBm} + 10\log B$ , where B is the 26 dB emissions bandwidth in 1-MHz. If transmitting antenna directional gain is greater than 6 dBi, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the bands 5250-5350 MHz and 5470-5600 MHz and 5650-5725 MHz, the maximum conducted output power shall not exceed the lesser of 250 mW (24dBm) or  $11 \text{ dBm} + 10\log B$ , where B is the 26 dB emissions bandwidth in 1-MHz. If transmitting antenna directional gain is greater than 6 dBi, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5725-5825 MHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 1 W or  $17 \text{ dBm} + 10\log B$ , where B is the 26-dB emission bandwidth in 1-MHz. In addition, the peak power spectral density shall not exceed 17 dBm in any 1-MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

U-NII procedures and limits were applied for operations in the frequency band from 5.725-5.850 GHz in accordance with FCC KDB 654545 D02

### 3.2.2 Measuring Instruments

See list of measuring instruments of this test report.

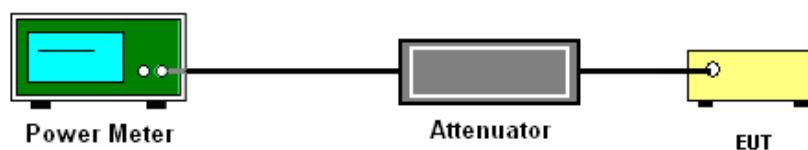
### 3.2.3 Test Procedures

The testing follows Method PM of FCC KDB 789033 D01 General UNII Test Procedures v01r03.

Method PM (Measurement using an RF average power meter):

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit continuously with a consistent duty cycle at its maximum power control level.
3. Measure the average power of the transmitter, and the average power is corrected with duty factor,  $10 \log(1/x)$ , where x is the duty cycle.

### 3.2.4 Test Setup





3.2.5 Test Result of Maximum Conducted Output Power

Test Band :	5GHz band 1	Temperature :	24~26°C
Test Engineer :	Coyote Lin	Relative Humidity :	55~58%

Mod.	Data Rate	N <sub>TX</sub>	Channel	Freq. (MHz)	Duty Factor (dB)	RF Output Power (dBm)	Power Limit (dBm)	DG (dBi)	Pass/Fail
11a	6Mbps	1	36	5180	0.22	12.18	17.00	-1.27	Pass
11a	6Mbps	1	44	5220	0.22	11.77	17.00	-1.27	Pass
11a	6Mbps	1	48	5240	0.22	11.58	17.00	-1.27	Pass
HT20	MCS0	1	36	5180	0.22	11.17	17.00	-1.27	Pass
HT20	MCS0	1	44	5220	0.22	11.03	17.00	-1.27	Pass
HT20	MCS0	1	48	5240	0.22	10.95	17.00	-1.27	Pass
HT40	MCS0	1	38	5190	0.45	10.85	17.00	-1.27	Pass
HT40	MCS0	1	46	5230	0.45	10.31	17.00	-1.27	Pass
VHT20	MCS0	1	36	5180	0.22	10.07	17.00	-1.27	Pass
VHT20	MCS0	1	44	5220	0.22	9.75	17.00	-1.27	Pass
VHT20	MCS0	1	48	5240	0.22	9.88	17.00	-1.27	Pass
VHT40	MCS0	1	38	5190	0.44	10.28	17.00	-1.27	Pass
VHT40	MCS0	1	46	5230	0.44	9.87	17.00	-1.27	Pass
VHT80	MCS0	1	42	5210	0.89	10.35	17.00	-1.27	Pass

Note:

1. Final Output Power equals to Measured Output Power adds the duty factor.
2. For the band 5150-5250 MHz, the maximum conducted output power shall not exceed the lesser of 50 mW (17dBm) or 4 dBm + 10log (26dB BW).





Test Band :	5GHz band 2	Temperature :	24~26°C
Test Engineer :	Coyote Lin	Relative Humidity :	55~58%

Mod.	Data Rate	N <sub>TX</sub>	Channel	Freq. (MHz)	Duty Factor (dB)	RF Output Power (dBm)	Power Limit (dBm)	DG (dBi)	Pass/Fail
11a	6Mbps	1	52	5260	0.22	12.27	24.00	-1.27	Pass
11a	6Mbps	1	60	5300	0.22	12.11	24.00	-1.27	Pass
11a	6Mbps	1	64	5320	0.22	11.90	24.00	-1.27	Pass
HT20	MCS0	1	52	5260	0.22	11.44	24.00	-1.27	Pass
HT20	MCS0	1	60	5300	0.22	11.38	24.00	-1.27	Pass
HT20	MCS0	1	64	5320	0.22	11.30	24.00	-1.27	Pass
HT40	MCS0	1	54	5270	0.45	11.00	24.00	-1.27	Pass
HT40	MCS0	1	62	5310	0.45	10.93	24.00	-1.27	Pass
VHT20	MCS0	1	52	5260	0.22	10.54	24.00	-1.27	Pass
VHT20	MCS0	1	60	5300	0.22	10.28	24.00	-1.27	Pass
VHT20	MCS0	1	64	5320	0.22	10.19	24.00	-1.27	Pass
VHT40	MCS0	1	54	5270	0.44	10.75	24.00	-1.27	Pass
VHT40	MCS0	1	62	5310	0.44	10.52	24.00	-1.27	Pass
VHT80	MCS0	1	58	5290	0.89	10.43	24.00	-1.27	Pass

**Note:**

1. Final Output Power equals to Measured Output Power adds the duty factor.
2. For the 5250-5350 MHz and 5470-5600MHz and 5650-5725MHz bands, the maximum conducted output power shall not exceed the lesser of 250 mW (24dBm) or 11 dBm + 10log (26dB BW).



Test Band :	5GHz band 3	Temperature :	24~26°C
Test Engineer :	Coyote Lin	Relative Humidity :	55~58%

Mod.	Data Rate	N <sub>TX</sub>	Channel	Freq. (MHz)	Duty Factor (dB)	RF Output Power (dBm)	Power Limit (dBm)	DG (dBi)	Pass/Fail
11a	6Mbps	1	100	5500	0.22	12.25	24.00	-1.27	Pass
11a	6Mbps	1	116	5580	0.22	11.81	24.00	-1.27	Pass
11a	6Mbps	1	140	5700	0.22	11.29	24.00	-1.27	Pass
11a	6Mbps	1	144	5720	0.22	10.05	22.88	-1.27	Pass
HT20	MCS0	1	100	5500	0.22	11.51	24.00	-1.27	Pass
HT20	MCS0	1	116	5580	0.22	11.25	24.00	-1.27	Pass
HT20	MCS0	1	140	5700	0.22	10.20	24.00	-1.27	Pass
HT20	MCS0	1	144	5720	0.22	9.32	22.90	-1.27	Pass
HT40	MCS0	1	102	5510	0.45	11.08	24.00	-1.27	Pass
HT40	MCS0	1	110	5550	0.45	10.65	24.00	-1.27	Pass
HT40	MCS0	1	134	5670	0.45	10.22	24.00	-1.27	Pass
HT40	MCS0	1	142	5710	0.45	10.49	24.00	-1.27	Pass
VHT20	MCS0	1	100	5500	0.22	10.96	24.00	-1.27	Pass
VHT20	MCS0	1	116	5580	0.22	10.13	24.00	-1.27	Pass
VHT20	MCS0	1	140	5700	0.22	9.73	24.00	-1.27	Pass
VHT20	MCS0	1	144	5720	0.22	7.90	22.93	-1.27	Pass
VHT40	MCS0	1	102	5510	0.44	10.49	24.00	-1.27	Pass
VHT40	MCS0	1	110	5550	0.44	10.39	24.00	-1.27	Pass
VHT40	MCS0	1	134	5670	0.44	9.54	24.00	-1.27	Pass
VHT40	MCS0	1	142	5710	0.44	9.22	24.00	-1.27	Pass
VHT80	MCS0	1	106	5530	0.89	11.05	24.00	-1.27	Pass
VHT80	MCS0	1	138	5690	0.89	10.35	24.00	-1.27	Pass

**Note:**

1. Final Output Power equals to Measured Output Power adds the duty factor.
2. For the 5250-5350 MHz and 5470-5600MHz and 5650-5725MHz bands, the maximum conducted output power shall not exceed the lesser of 250 mW (24dBm) or 11 dBm + 10log (26dB BW).



Test Band :	5GHz band 4	Temperature :	24~26°C
Test Engineer :	Coyote Lin	Relative Humidity :	55~58%

Mod.	Data Rate	N <sub>TX</sub>	Channel	Freq. (MHz)	Duty Factor (dB)	RF Output Power (dBm)	Power Limit (dBm)	DG (dBi)	Pass/Fail
11a	6Mbps	1	144	5720	0.22	3.85	24.36	-1.27	Pass
11a	6Mbps	1	149	5745	0.22	12.01	30.00	-1.27	Pass
11a	6Mbps	1	157	5765	0.22	11.83	30.00	-1.27	Pass
11a	6Mbps	1	165	5825	0.22	11.71	30.00	-1.27	Pass
HT20	MCS0	1	144	5720	0.22	3.63	24.40	-1.27	Pass
HT20	MCS0	1	149	5745	0.22	11.15	30.00	-1.27	Pass
HT20	MCS0	1	157	5765	0.22	10.71	30.00	-1.27	Pass
HT20	MCS0	1	165	5825	0.22	10.75	30.00	-1.27	Pass
HT40	MCS0	1	142	5710	0.45	0.26	24.49	-1.27	Pass
HT40	MCS0	1	151	5755	0.45	11.03	30.00	-1.27	Pass
HT40	MCS0	1	159	5795	0.45	10.67	30.00	-1.27	Pass
VHT20	MCS0	1	144	5720	0.22	2.42	24.44	-1.27	Pass
VHT20	MCS0	1	149	5745	0.22	10.29	30.00	-1.27	Pass
VHT20	MCS0	1	157	5765	0.22	10.14	30.00	-1.27	Pass
VHT20	MCS0	1	165	5825	0.22	10.03	30.00	-1.27	Pass
VHT40	MCS0	1	142	5710	0.44	-0.98	24.42	-1.27	Pass
VHT40	MCS0	1	151	5755	0.44	10.19	30.00	-1.27	Pass
VHT40	MCS0	1	159	5795	0.44	10.25	30.00	-1.27	Pass
VHT80	MCS0	1	138	5690	0.89	-3.46	25.24	-1.27	Pass
VHT80	MCS0	1	155	5775	0.89	10.35	30.00	-1.27	Pass

**Note:**

1. Final Output Power equals to Measured Output Power adds the duty factor.
2. For the band 5725-5825 MHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 1 W or 17 dBm + 10log B.



Test Band :	Straddle Channel	Temperature :	24~26°C
Test Engineer :	Coyote Lin	Relative Humidity :	55~58%

Mod.	Data Rate	N <sub>TX</sub>	Channel	Freq. (MHz)	RF Output Power (dBm)		
					Band 3	Band 4	Total
11a	6Mbps	1	144	5720	10.05	3.85	10.98
HT20	MCS0	1	144	5720	9.32	3.63	10.36
HT40	MCS0	1	142	5710	10.49	0.26	10.88
VHT20	MCS0	1	144	5720	7.90	2.42	8.98
VHT40	MCS0	1	142	5710	9.22	-0.98	9.62
VHT80	MCS0	1	138	5690	10.35	-3.46	10.53



### **3.3 Power Spectral Density Measurement**

#### **3.3.1 Limit of Power Spectral Density**

For the band 5150-5250 MHz, the peak power spectral density shall not exceed 4 dBm in any 1-MHz band. For the bands 5250-5350 MHz and 5470-5600 and 5650-5725 MHz, the peak power spectral density shall not exceed 11 dBm in any 1-MHz band. For the band 5725-5825 MHz, the peak power spectral density shall not exceed 17 dBm in any 1-MHz band. If transmitting antenna directional gain is greater than 6 dBi, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

U-NII procedures and limits were applied for operations in the frequency band from 5.725-5.850 GHz in accordance with FCC KDB 654545 D02

#### **3.3.2 Measuring Instruments**

See list of measuring instruments of this test report.

### 3.3.3 Test Procedures

The testing follows FCC KDB 789033 D01 General UNII Test Procedures v01r03.

Section F) Peak power spectral density (PPSD).

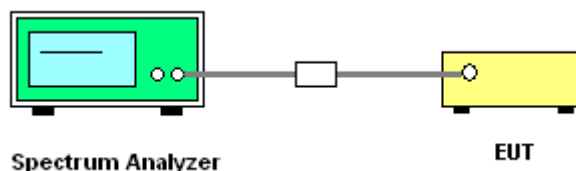
Note: Though the rule refers to “peak power spectral density”, the intent is to measure the maximum value of the time average of the power spectral density measured during a period of continuous transmission.

#### # Method SA-2 #

(trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

1. The testing follows Method SA-2 of FCC KDB 789033 D01 General UNII Test Procedures v01r03.
  - Measure the duty cycle.
  - Set span to encompass the entire emission bandwidth (EBW) of the signal.
  - Set RBW = 1 MHz.
  - Set VBW  $\geq$  3 MHz.
  - Number of points in sweep  $\geq$  2 Span / RBW.
  - Sweep time = auto.
  - Detector = sample
  - Trace average at least 100 traces in power averaging mode.
  - Add  $10 \log(1/x)$ , where  $x$  is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add  $10 \log(1/0.25) = 6$  dB if the duty cycle is 25 percent.
2. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
3. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.

### 3.3.4 Test Setup





3.3.5 Test Result of Power Spectral Density

Test Band :	5GHz band 1	Temperature :	24~26°C
Test Engineer :	Coyote Lin	Relative Humidity :	55~58%

Mod.	Data Rate	N <sub>TX</sub>	Channel	Freq. (MHz)	Duty Factor (dB)	Average Power Density (dBm/MHz)	Max. Limits (dBm/MHz)	DG (dBi)	Pass/Fail
11a	6Mbps	1	36	5180	0.22	1.03	4	-1.27	Pass
11a	6Mbps	1	44	5220	0.22	1.19	4	-1.27	Pass
11a	6Mbps	1	48	5240	0.22	1.05	4	-1.27	Pass
HT20	MCS0	1	36	5180	0.22	-0.02	4	-1.27	Pass
HT20	MCS0	1	44	5220	0.22	0.00	4	-1.27	Pass
HT20	MCS0	1	48	5240	0.22	-0.24	4	-1.27	Pass
HT40	MCS0	1	38	5190	0.45	-2.63	4	-1.27	Pass
HT40	MCS0	1	46	5230	0.45	-3.07	4	-1.27	Pass
VHT20	MCS0	1	36	5180	0.22	-1.05	4	-1.27	Pass
VHT20	MCS0	1	44	5220	0.22	-1.20	4	-1.27	Pass
VHT20	MCS0	1	48	5240	0.22	-1.30	4	-1.27	Pass
VHT40	MCS0	1	38	5190	0.44	-3.75	4	-1.27	Pass
VHT40	MCS0	1	46	5230	0.44	-3.69	4	-1.27	Pass
VHT80	MCS0	1	42	5210	0.89	-6.67	4	-1.27	Pass



<b>Test Band :</b>	5GHz band 2	<b>Temperature :</b>	24~26°C
<b>Test Engineer :</b>	Coyote Lin	<b>Relative Humidity :</b>	55~58%

Mod.	Data Rate	N <sub>TX</sub>	Channel	Freq. (MHz)	Duty Factor (dB)	Average Power Density (dBm/MHz)	Max. Limits (dBm/MHz)	DG (dBi)	Pass/Fail
11a	6Mbps	1	52	5260	0.22	1.49	11	-1.27	Pass
11a	6Mbps	1	60	5300	0.22	1.13	11	-1.27	Pass
11a	6Mbps	1	64	5320	0.22	1.31	11	-1.27	Pass
HT20	MCS0	1	52	5260	0.22	0.07	11	-1.27	Pass
HT20	MCS0	1	60	5300	0.22	-0.24	11	-1.27	Pass
HT20	MCS0	1	64	5320	0.22	-0.02	11	-1.27	Pass
HT40	MCS0	1	54	5270	0.45	-2.25	11	-1.27	Pass
HT40	MCS0	1	62	5310	0.45	-2.32	11	-1.27	Pass
VHT20	MCS0	1	52	5260	0.22	-0.88	11	-1.27	Pass
VHT20	MCS0	1	60	5300	0.22	-1.09	11	-1.27	Pass
VHT20	MCS0	1	64	5320	0.22	-1.10	11	-1.27	Pass
VHT40	MCS0	1	54	5270	0.44	-3.12	11	-1.27	Pass
VHT40	MCS0	1	62	5310	0.44	-3.81	11	-1.27	Pass
VHT80	MCS0	1	58	5290	0.89	-6.95	11	-1.27	Pass





Test Band :	5GHz band 3	Temperature :	24~26°C
Test Engineer :	Coyote Lin	Relative Humidity :	55~58%

Mod.	Data Rate	N <sub>TX</sub>	Channel	Freq. (MHz)	Duty Factor (dB)	Average Power Density (dBm/MHz)	Max. Limits (dBm/MHz)	DG (dBi)	Pass/Fail
11a	6Mbps	1	100	5500	0.22	0.59	11	-1.27	Pass
11a	6Mbps	1	116	5580	0.22	-0.19	11	-1.27	Pass
11a	6Mbps	1	140	5700	0.22	-0.96	11	-1.27	Pass
11a	6Mbps	1	144	5720	0.22	-4.26	11	-1.27	Pass
HT20	MCS0	1	100	5500	0.22	-0.74	11	-1.27	Pass
HT20	MCS0	1	116	5580	0.22	-1.55	11	-1.27	Pass
HT20	MCS0	1	140	5700	0.22	-2.46	11	-1.27	Pass
HT20	MCS0	1	144	5720	0.22	-5.19	11	-1.27	Pass
HT40	MCS0	1	102	5510	0.45	-3.42	11	-1.27	Pass
HT40	MCS0	1	110	5550	0.45	-3.55	11	-1.27	Pass
HT40	MCS0	1	134	5670	0.45	-5.19	11	-1.27	Pass
HT40	MCS0	1	142	5710	0.45	-7.46	11	-1.27	Pass
VHT20	MCS0	1	100	5500	0.22	-1.65	11	-1.27	Pass
VHT20	MCS0	1	116	5580	0.22	-2.55	11	-1.27	Pass
VHT20	MCS0	1	140	5700	0.22	-3.51	11	-1.27	Pass
VHT20	MCS0	1	144	5720	0.22	-6.00	11	-1.27	Pass
VHT40	MCS0	1	102	5510	0.44	-4.44	11	-1.27	Pass
VHT40	MCS0	1	110	5550	0.44	-4.47	11	-1.27	Pass
VHT40	MCS0	1	134	5670	0.44	-6.27	11	-1.27	Pass
VHT40	MCS0	1	142	5710	0.44	-8.48	11	-1.27	Pass
VHT80	MCS0	1	106	5530	0.89	-6.91	11	-1.27	Pass
VHT80	MCS0	1	138	5690	0.89	-11.13	11	-1.27	Pass

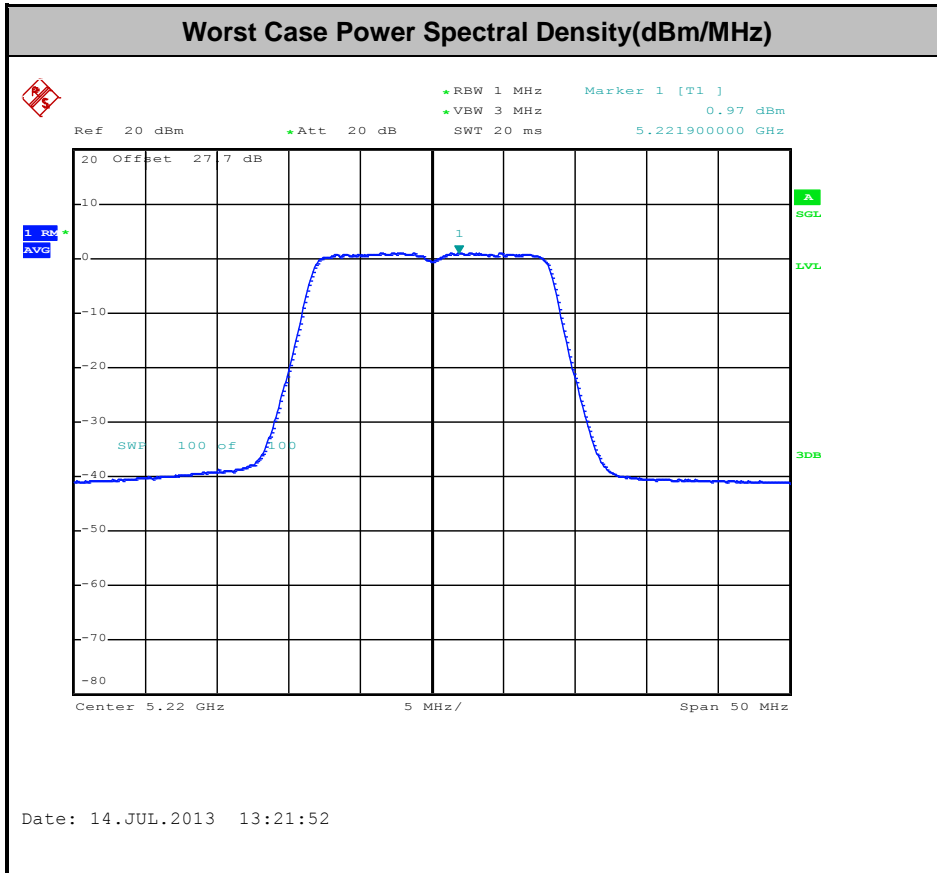
For straddle channels (CH138, CH142, CH144), maximum PSD across the channel bandwidth passed the PSD limit of 5GHz band3, and it was justified to pass the PSD limit in 5.725-5.825GHz band.



Test Band :	5GHz band 4	Temperature :	24~26°C
Test Engineer :	Coyote Lin	Relative Humidity :	55~58%

Mod.	Data Rate	N <sub>TX</sub>	Channel	Freq. (MHz)	Duty Factor (dB)	Average Power Density (dBm/MHz)	Max. Limits (dBm/MHz)	DG (dBi)	Pass/Fail
11a	6Mbps	1	149	5745	0.22	-0.92	17	-1.27	Pass
11a	6Mbps	1	157	5765	0.22	-1.43	17	-1.27	Pass
11a	6Mbps	1	165	5825	0.22	-1.65	17	-1.27	Pass
HT20	MCS0	1	149	5745	0.22	-2.36	17	-1.27	Pass
HT20	MCS0	1	157	5765	0.22	-2.58	17	-1.27	Pass
HT20	MCS0	1	165	5825	0.22	-2.88	17	-1.27	Pass
HT40	MCS0	1	151	5755	0.45	-5.43	17	-1.27	Pass
HT40	MCS0	1	159	5795	0.45	-5.79	17	-1.27	Pass
VHT20	MCS0	1	149	5745	0.22	-3.37	17	-1.27	Pass
VHT20	MCS0	1	157	5765	0.22	-3.64	17	-1.27	Pass
VHT20	MCS0	1	165	5825	0.22	-3.90	17	-1.27	Pass
VHT40	MCS0	1	151	5755	0.44	-6.39	17	-1.27	Pass
VHT40	MCS0	1	159	5795	0.44	-6.65	17	-1.27	Pass
VHT80	MCS0	1	155	5775	0.89	-8.76	17	-1.27	Pass

Maximum PSD in the 5.725-5.850 GHz range (i.e., the upper U-NII band extended to match the upper frequency of the corresponding 15.247 band) satisfies the PSD limits applicable to the 5.725- 5.825 GHz band, and the PSD limits of the U-NII 4 band and the 5.8 GHz 15.247 band was judged to have been satisfied.



**Note:** Average Power Density (dB) = Measured value+ Duty Factor

## 3.4 Peak Excursion Ratio Measurement

### 3.4.1 Limit of Peak Excursion Ratio

The ratio of the peak excursion of the modulation envelope (measured using a peak hold function) to the maximum conducted output power (measured as specified above) shall not exceed 13 dB across any 1 MHz bandwidth or the emission bandwidth whichever is less.

### 3.4.2 Measuring Instruments

See list of measuring instruments of this test report.

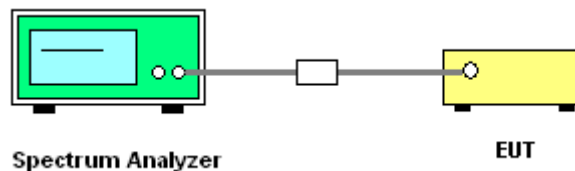
### 3.4.3 Test Procedures

The testing follows FCC KDB 789033 D01 General UNII Test Procedures v01r03.

Section G) Peak excursion measurement

1. The transmitter output is connected to the spectrum analyzer.
2. Set the spectrum analyzer span to view the entire emission bandwidth.
3. Find the maximum of the peak-max-hold spectrum.
  - \*Set RBW = 1MHz.
  - \*Set VBW  $\geq$  3MHz.
  - \*Detector = peak.
  - \*Trace mode = max-hold.
  - \*Allow the sweeps to continue until the trace stabilizes.
  - \*Use the peak search function to find the peak of the spectrum.
4. Use the procedure found under section 3.3 to measure the PPSD.
5. Compute the ratio of the maximum of the peak-max-hold spectrum to the PPSD.

### 3.4.4 Test Setup





3.4.5 Test Result of Peak Excursion Ratio

Test Band :	5GHz band 1	Temperature :	24~26°C
Test Engineer :	Coyote Lin	Relative Humidity :	55~58%

Mod.	N <sub>TX</sub>	Channel	Freq. (MHz)	Peak Excursion Ratio (dB)					Max. Limits (dB)	Pass/Fail
				BPSK	QPSK	16QAM	64QAM	256QAM		
11a	1	36	5180	8.83	8.99	8.52	8.39	-	13	Pass
HT20	1	36	5180	9.75	10.13	9.65	9.72	-	13	Pass
HT40	1	38	5230	9.16	9.50	9.32	9.33	-	13	Pass
VHT20	1	36	5180	9.28	10.03	9.58	9.15	9.28	13	Pass
VHT40	1	38	5180	8.91	8.86	8.95	9.43	9.63	13	Pass
VHT80	1	42	5210	9.26	9.16	9.09	8.89	8.93	13	Pass

Test Band :	5GHz band 2	Temperature :	24~26°C
Test Engineer :	Coyote Lin	Relative Humidity :	55~58%

Mod.	N <sub>TX</sub>	Channel	Freq. (MHz)	Peak Excursion Ratio (dB)					Max. Limits (dB)	Pass/Fail
				BPSK	QPSK	16QAM	64QAM	256QAM		
11a	1	52	5260	8.58	9.12	8.59	8.39	-	13	Pass
HT20	1	52	5260	9.78	9.57	9.40	9.29	-	13	Pass
HT40	1	54	5270	8.61	9.17	8.56	9.89	-	13	Pass
VHT20	1	52	5260	9.91	9.72	9.40	9.99	9.69	13	Pass
VHT40	1	54	5270	9.27	9.51	9.32	9.47	9.23	13	Pass
VHT80	1	58	5290	9.07	9.29	8.92	8.58	8.85	13	Pass



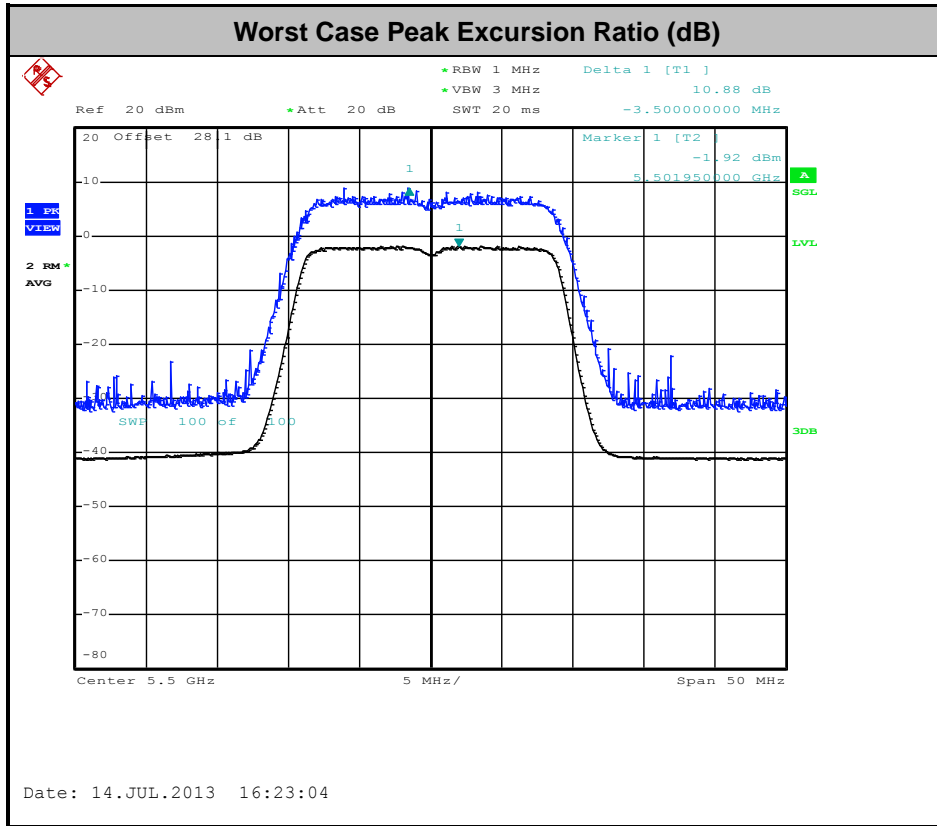
Test Band :	5GHz band 3	Temperature :	24~26°C
Test Engineer :	Coyote Lin	Relative Humidity :	55~58%

Mod.	N <sub>TX</sub>	Channel	Freq. (MHz)	Peak Excursion Ratio (dB)					Max. Limits (dB)	Pass/Fail
				BPSK	QPSK	16QAM	64QAM	256QAM		
11a	1	100	5500	8.66	9.16	8.56	8.24	-	13	Pass
11a	1	144	5720	9.16	9.08	8.76	8.81	-	13	Pass
HT20	1	100	5500	9.52	9.98	9.73	9.77	-	13	Pass
HT20	1	144	5720	10.09	9.80	9.65	9.71	-	13	Pass
HT40	1	102	5510	9.57	9.32	8.92	9.28	-	13	Pass
HT40	1	142	5710	9.14	9.30	9.30	9.40	-	13	Pass
VHT20	1	100	5500	8.83	10.28	10.01	10.10	9.85	13	Pass
VHT20	1	144	5720	9.36	9.54	9.78	9.71	10.16	13	Pass
VHT40	1	102	5510	9.56	8.98	9.09	9.49	9.66	13	Pass
VHT40	1	142	5710	9.88	9.08	8.87	9.44	9.60	13	Pass
VHT80	1	106	5530	9.39	9.14	9.45	8.40	8.81	13	Pass
VHT80	1	138	5690	9.49	9.00	9.11	8.55	8.55	13	Pass

Test Band :	5GHz band 4	Temperature :	24~26°C
Test Engineer :	Coyote Lin	Relative Humidity :	55~58%

Mod.	N <sub>TX</sub>	Channel	Freq. (MHz)	Peak Excursion Ratio (dB)					Max. Limits (dB)	Pass/Fail
				BPSK	QPSK	16QAM	64QAM	256QAM		
11a	1	149	5745	8.95	9.35	8.51	8.41	-	13	11a
HT20	1	149	5745	9.03	9.33	9.94	9.57	-	13	HT20
HT40	1	151	5755	9.81	9.15	9.18	9.58	-	13	HT40
VHT20	1	149	5745	9.29	9.44	9.37	9.70	9.80	13	VHT20
VHT40	1	151	5755	9.26	9.42	9.14	8.87	9.33	13	VHT40
VHT80	1	155	5775	9.16	8.97	8.68	8.64	9.69	13	VHT80

Note: All modulation measured based on the minimum data rate setting.



**Note:** Peak Excursion Ratio (dB) = Peak – (Average + Duty Cycle Offset)

Duty Cycle Offset: 0.60 dB

### 3.5 Unwanted Radiated Emission Measurement

This section as specified in FCC Part 15.407(b) is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement. The unwanted emissions shall comply with 15.407(b)(1) to (6), and restricted bands per FCC Part 15.205.

#### 3.5.1 Limit of Unwanted Emissions

- (1) For transmitters operating in the 5150-5250 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of  $-27\text{dBm/MHz}$ .

For transmitters operating in the 5250-5350 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of  $-27\text{ dBm/MHz}$ . Devices operating in the 5250-5350 MHz band that generate emissions in the 5150-5250 MHz band must meet all applicable technical requirements for operation in the 5150-5250 MHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of  $-27\text{ dBm/MHz}$  in the 5150-5250 MHz band.

For transmitters operating in the 5470-5600 MHz and 5650-5725MHz band: all emissions outside of the 5470-5600 MHz and 5650-5725MHz band shall not exceed an EIRP of  $-27\text{ dBm/MHz}$ .

For transmitters operating in the 5725-5825 MHz band: all emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an EIRP of  $-17\text{ dBm/MHz}$  ( $78.3\text{dB}\mu\text{V/m}$ ); for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an EIRP of  $-27\text{ dBm/MHz}$  ( $68.3\text{dB}\mu\text{V/m}$ ).



(2) Unwanted spurious emissions fallen in restricted bands per FCC Part15.205 shall comply with the general field strength limits set forth in § 15.209 as below table,

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

**Note:** The following formula is used to convert the EIRP to field strength.

$$E = \frac{1000000\sqrt{30P}}{3} \mu\text{V/m, where P is the eirp (Watts)}$$

EIRP (dBm)	Field Strength at 3m (dBμV/m)
-17	78.3
- 27	68.3

(3) KDB789033 v01r03 H)2)c)(i) As specified in 15.407(b), emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz (or -17 dBm/MHz as specified in 15.407(b)(4)). However, an out-of-band emission that complies with both the average and peak limits of 15.209 is not required to satisfy the -27 dBm/MHz or -17 dBm/MHz peak emission limit.

### 3.5.2 Measuring Instruments

See list of measuring instruments of this test report.



### 3.5.3 Test Procedures

1. The testing follows FCC KDB 789033 D01 General UNII Test Procedures v01r03.  
Section H) Unwanted emissions measurement.
  - (1) Procedure for Unwanted Emissions Measurements Below 1000MHz
    - RBW = 120 kHz
    - VBW = 300 kHz
    - Detector = Peak
    - Trace mode = max hold
  - (2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz
    - The setting follows the H) 5) of FCC KDB 789033.
    - RBW = 1 MHz
    - VBW  $\geq$  3 MHz
    - Detector = Peak
    - Sweep time = auto
    - Trace mode = max hold
  - (3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz
    - The setting follows H) 6) of FCC KDB 789033.
    - RBW = 1 MHz
    - VBW = 10 Hz, when duty cycle is no less than 98 percent.
    - VBW  $\geq$  1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

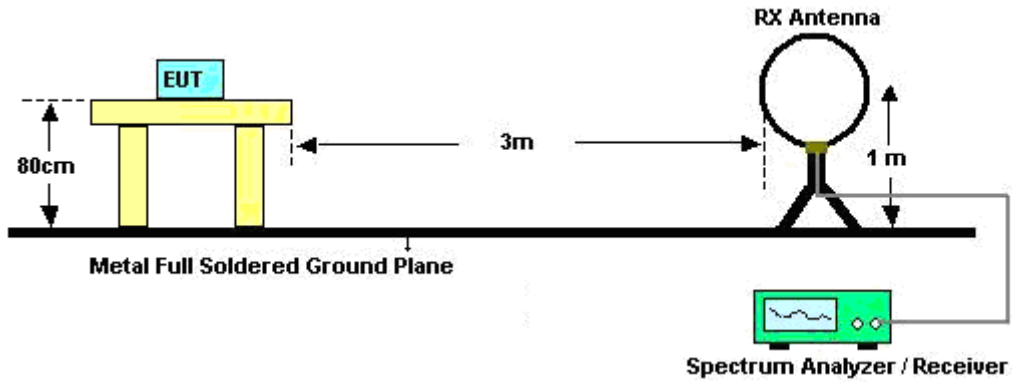


Band	Duty Cycle(%)	T(μs)	1/T(kHz)	VBW Setting
802.11a	95.03	2064.00	0.48	1kHz
802.11n HT20	95.05	1920.00	0.52	1kHz
802.11n HT40	90.08	944.00	1.06	3kHz
802.11ac VHT20	95.10	1940.00	0.52	1kHz
802.11ac VHT40	90.34	954.00	1.05	3kHz
802.11ac VHT80	81.56	460.00	2.17	3kHz

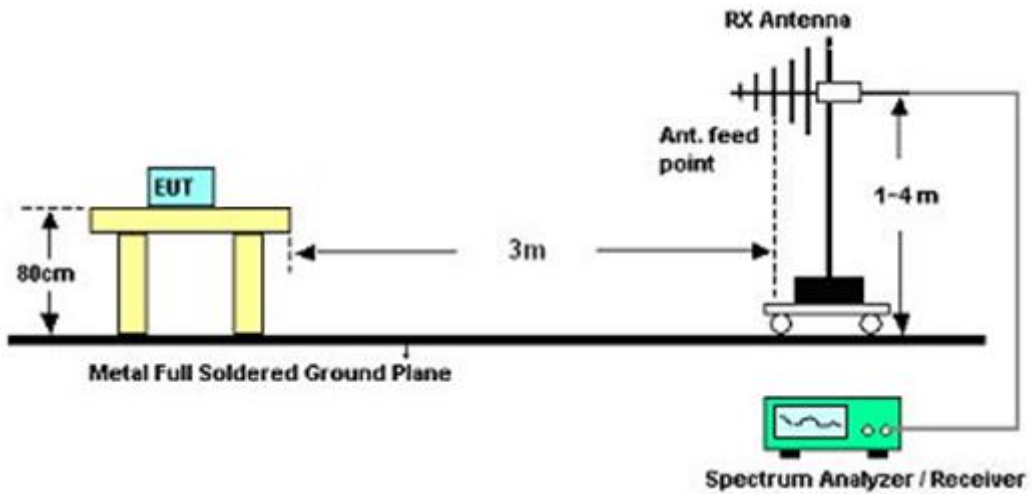
2. The EUT was placed on a rotatable table top 0.8 meter above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

### 3.5.4 Test Setup

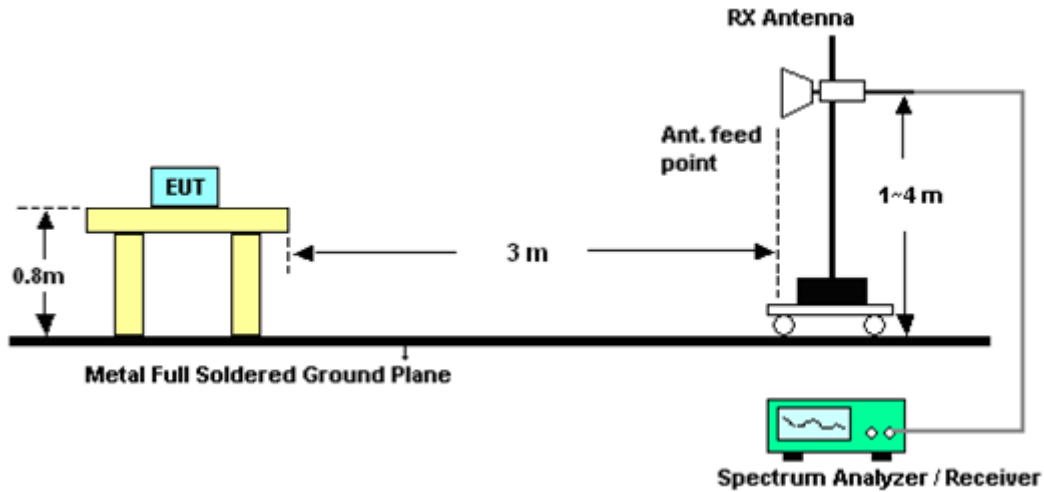
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



### 3.5.5 Test Results of Radiated Emissions (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

3.5.6.1 Test Result of Radiated Band Edges

Test Mode :	802.11a	Temperature :	21~23°C
Test Channel :	36	Relative Humidity :	46~47%
Test Engineer :	Jet Lui		

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
5148.8	58.79	-15.21	74	50.66	34.42	8.65	34.94	126	314	Peak
5149.25	44.1	-9.9	54	35.97	34.42	8.65	34.94	126	314	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
5147.9	54.33	-19.67	74	46.44	34.18	8.65	34.94	110	355	Peak
5148.2	41.77	-12.23	54	33.88	34.18	8.65	34.94	110	355	Average

Test Mode :	802.11a	Temperature :	21~23°C
Test Channel :	48	Relative Humidity :	46~47%
Test Engineer :	Jet Lui		

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
5067.2	53.19	-20.81	74	45.38	34.35	8.44	34.98	125	313	Peak
5021.6	42.61	-11.39	54	34.89	34.33	8.38	34.99	125	313	Average
5358.58	53.12	-20.88	74	44.63	34.54	8.8	34.85	125	313	Peak
5458.24	42.17	-11.83	54	33.59	34.58	8.81	34.81	125	313	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
5122.25	52.64	-21.36	74	44.78	34.21	8.6	34.95	129	293	Peak
5021.3	41.37	-12.63	54	33.71	34.27	8.38	34.99	129	293	Average
5415.01	53.02	-20.98	74	44.61	34.43	8.81	34.83	129	293	Peak
5458.9	41.56	-12.44	54	33.06	34.5	8.81	34.81	129	293	Average



Test Mode :	802.11a	Temperature :	21~23°C
Test Channel :	52	Relative Humidity :	46~47%
Test Engineer :	Jet Lui		

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
5118.95	53.41	-20.59	74	45.37	34.39	8.6	34.95	104	354	Peak
5040.65	42.46	-11.54	54	34.73	34.34	8.38	34.99	104	354	Average
5360.56	53.45	-20.55	74	44.95	34.55	8.8	34.85	104	354	Peak
5354.62	41.99	-12.01	54	33.5	34.54	8.8	34.85	104	354	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
5018.15	53.12	-20.88	74	45.49	34.29	8.33	34.99	142	316	Peak
5040.95	41.26	-12.74	54	33.61	34.26	8.38	34.99	142	316	Average
5390.37	52.96	-21.04	74	44.62	34.37	8.81	34.84	142	316	Peak
5373.65	41.5	-12.5	54	33.21	34.33	8.8	34.84	142	316	Average

Test Mode :	802.11a	Temperature :	21~23°C
Test Channel :	64	Relative Humidity :	46~47%
Test Engineer :	Jet Lui		

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
5351.65	59.16	-14.84	74	50.67	34.54	8.8	34.85	101	335	Peak
5350	43.23	-10.77	54	34.74	34.54	8.8	34.85	101	335	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
5350	54.12	-19.88	74	45.87	34.3	8.8	34.85	127	270	Peak
5350	41.7	-12.3	54	33.45	34.3	8.8	34.85	127	270	Average



Test Mode :	802.11a	Temperature :	21~23°C
Test Channel :	100	Relative Humidity :	46~47%
Test Engineer :	Jet Lui		

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
5469.68	54.49	-19.51	74	45.9	34.59	8.81	34.81	152	55	Peak
5470	42.45	-11.55	54	33.86	34.59	8.81	34.81	152	55	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
5465.84	53.27	-20.73	74	44.74	34.53	8.81	34.81	100	23	Peak
5469.84	41.82	-12.18	54	33.29	34.53	8.81	34.81	100	23	Average

Test Mode :	802.11a	Temperature :	21~23°C
Test Channel :	140	Relative Humidity :	46~47%
Test Engineer :	Jet Lui		

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
5725.48	60.77	-13.23	74	51.9	34.69	9.07	34.89	113	303	Peak
5725.24	42.94	-11.06	54	34.07	34.69	9.07	34.89	113	303	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
5725.72	56.26	-17.74	74	47.39	34.69	9.07	34.89	100	4	Peak
5725.32	42.11	-11.89	54	33.24	34.69	9.07	34.89	100	4	Average





Test Mode :	802.11n HT20	Temperature :	21~23°C
Test Channel :	36	Relative Humidity :	46~47%
Test Engineer :	Jet Lui		

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
5146.7	60.34	-13.66	74	52.21	34.42	8.65	34.94	102	314	Peak
5150	43.54	-10.46	54	35.41	34.42	8.65	34.94	102	314	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
5147.15	53.72	-20.28	74	45.83	34.18	8.65	34.94	109	356	Peak
5149.25	41.65	-12.35	54	33.76	34.18	8.65	34.94	109	356	Average

Test Mode :	802.11n HT20	Temperature :	21~23°C
Test Channel :	48	Relative Humidity :	46~47%
Test Engineer :	Jet Lui		

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
5104.85	52.62	-21.38	74	44.65	34.38	8.55	34.96	125	316	Peak
5146.25	41.87	-12.13	54	33.74	34.42	8.65	34.94	125	316	Average
5359.02	52.92	-21.08	74	44.43	34.54	8.8	34.85	125	316	Peak
5458.24	42.36	-11.64	54	33.78	34.58	8.81	34.81	125	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
5147.9	52.68	-21.32	74	44.79	34.18	8.65	34.94	129	284	Peak
5021.45	41.19	-12.81	54	33.53	34.27	8.38	34.99	129	284	Average
5442.07	52.91	-21.09	74	44.45	34.47	8.81	34.82	129	284	Peak
5403.02	41.58	-12.42	54	33.2	34.4	8.81	34.83	129	284	Average



Test Mode :	802.11n HT20	Temperature :	21~23°C
Test Channel :	52	Relative Humidity :	46~47%
Test Engineer :	Jet Lui		

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
5108.75	53.17	-20.83	74	45.19	34.39	8.55	34.96	127	349	Peak
5040.65	42.57	-11.43	54	34.84	34.34	8.38	34.99	127	349	Average
5402.36	53.09	-20.91	74	44.55	34.56	8.81	34.83	127	349	Peak
5350.44	42.07	-11.93	54	33.58	34.54	8.8	34.85	127	349	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
5029.4	52.43	-21.57	74	44.77	34.27	8.38	34.99	129	303	Peak
5040.8	41.37	-12.63	54	33.72	34.26	8.38	34.99	129	303	Average
5374.75	52.83	-21.17	74	44.54	34.33	8.8	34.84	129	303	Peak
5402.8	41.51	-12.49	54	33.13	34.4	8.81	34.83	129	303	Average

Test Mode :	802.11n HT20	Temperature :	21~23°C
Test Channel :	64	Relative Humidity :	46~47%
Test Engineer :	Jet Lui		

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
5350.99	60.81	-13.19	74	52.32	34.54	8.8	34.85	101	360	Peak
5350	43.16	-10.84	54	34.67	34.54	8.8	34.85	101	360	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
5351.1	53.07	-20.93	74	44.82	34.3	8.8	34.85	126	283	Peak
5350.66	41.67	-12.33	54	33.42	34.3	8.8	34.85	126	283	Average



Test Mode :	802.11n HT20	Temperature :	21~23°C
Test Channel :	100	Relative Humidity :	46~47%
Test Engineer :	Jet Lui		

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
5469.36	56.03	-17.97	74	47.44	34.59	8.81	34.81	132	346	Peak
5469.36	43.07	-10.93	54	34.48	34.59	8.81	34.81	132	346	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
5468.4	52.52	-21.48	74	43.99	34.53	8.81	34.81	112	284	Peak
5469.36	41.68	-12.32	54	33.15	34.53	8.81	34.81	112	284	Average

Test Mode :	802.11n HT20	Temperature :	21~23°C
Test Channel :	140	Relative Humidity :	46~47%
Test Engineer :	Jet Lui		

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
5726.36	62.63	-11.37	74	53.76	34.69	9.07	34.89	125	312	Peak
5725.16	42.93	-11.07	54	34.06	34.69	9.07	34.89	125	312	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
5728.36	57.42	-16.58	74	48.55	34.69	9.07	34.89	109	7	Peak
5726.52	42.23	-11.77	54	33.36	34.69	9.07	34.89	109	7	Average



Test Mode :	802.11n HT40	Temperature :	21~23°C
Test Channel :	38	Relative Humidity :	46~47%
Test Engineer :	Jet Lui		

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
5149.85	61.71	-12.29	74	53.58	34.42	8.65	34.94	100	311	Peak
5150	47.44	-6.56	54	39.31	34.42	8.65	34.94	100	311	Average
5396.2	52.62	-21.38	74	44.09	34.56	8.81	34.84	100	311	Peak
5355.39	42.18	-11.82	54	33.69	34.54	8.8	34.85	100	311	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
5147.75	55.97	-18.03	74	48.08	34.18	8.65	34.94	131	276	Peak
5148.95	44.22	-9.78	54	36.33	34.18	8.65	34.94	131	276	Average
5376.62	52.47	-21.53	74	44.18	34.33	8.8	34.84	131	276	Peak
5434.15	41.85	-12.15	54	33.39	34.47	8.81	34.82	131	276	Average



Test Mode :	802.11n HT40	Temperature :	21~23°C
Test Channel :	46	Relative Humidity :	46~47%
Test Engineer :	Jet Lui		

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
5146.4	52.78	-21.22	74	44.65	34.42	8.65	34.94	102	330	Peak
5150	42.31	-11.69	54	34.18	34.42	8.65	34.94	102	330	Average
5361.88	53.03	-20.97	74	44.53	34.55	8.8	34.85	102	330	Peak
5357.26	42.29	-11.71	54	33.8	34.54	8.8	34.85	102	330	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
5041.55	52.51	-21.49	74	44.86	34.26	8.38	34.99	131	276	Peak
5141.9	41.6	-12.4	54	33.72	34.18	8.65	34.95	131	276	Average
5398.18	52.77	-21.23	74	44.4	34.4	8.81	34.84	131	276	Peak
5399.39	41.96	-12.04	54	33.58	34.4	8.81	34.83	131	276	Average



Test Mode :	802.11n HT40	Temperature :	21~23°C
Test Channel :	54	Relative Humidity :	46~47%
Test Engineer :	Jet Lui		

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
5129.75	52.92	-21.08	74	44.86	34.41	8.6	34.95	100	331	Peak
5146.25	42.05	-11.95	54	33.92	34.42	8.65	34.94	100	331	Average
5350.66	53.91	-20.09	74	45.42	34.54	8.8	34.85	100	331	Peak
5360.34	42.57	-11.43	54	34.08	34.54	8.8	34.85	100	331	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
5148.35	52.33	-21.67	74	44.44	34.18	8.65	34.94	130	277	Peak
5146.1	41.64	-12.36	54	33.75	34.18	8.65	34.94	130	277	Average
5390.59	52.78	-21.22	74	44.44	34.37	8.81	34.84	130	277	Peak
5451.31	41.89	-12.11	54	33.39	34.5	8.81	34.81	130	277	Average



Test Mode :	802.11n HT40	Temperature :	21~23°C
Test Channel :	62	Relative Humidity :	46~47%
Test Engineer :	Jet Lui		

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
5089.1	52.38	-21.62	74	44.48	34.38	8.49	34.97	100	333	Peak
5148.95	41.96	-12.04	54	33.83	34.42	8.65	34.94	100	333	Average
5359.35	58.14	-15.86	74	49.65	34.54	8.8	34.85	100	333	Peak
5350.44	44.48	-9.52	54	35.99	34.54	8.8	34.85	100	333	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
5047.85	52.07	-21.93	74	44.35	34.26	8.44	34.98	142	285	Peak
5148.5	41.49	-12.51	54	33.6	34.18	8.65	34.94	142	285	Average
5351.21	53.72	-20.28	74	45.47	34.3	8.8	34.85	142	285	Peak
5354.29	42.32	-11.68	54	34.07	34.3	8.8	34.85	142	285	Average



Test Mode :	802.11n HT40	Temperature :	21~23°C
Test Channel :	102	Relative Humidity :	46~47%
Test Engineer :	Jet Lui		

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
5467.92	62.76	-11.24	74	54.17	34.59	8.81	34.81	120	352	Peak
5469.52	46.79	-7.21	54	38.2	34.59	8.81	34.81	120	352	Average
5736.92	53.2	-20.8	74	44.33	34.7	9.07	34.9	120	352	Peak
5743.4	42.33	-11.67	54	33.43	34.7	9.1	34.9	120	352	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
5469.52	53.39	-20.61	74	44.86	34.53	8.81	34.81	113	353	Peak
5468.88	42.67	-11.33	54	34.14	34.53	8.81	34.81	113	353	Average
5725.88	52.84	-21.16	74	43.97	34.69	9.07	34.89	113	353	Peak
5758.28	42.26	-11.74	54	33.36	34.71	9.1	34.91	113	353	Average





Test Mode :	802.11n HT40	Temperature :	21~23°C
Test Channel :	134	Relative Humidity :	46~47%
Test Engineer :	Jet Lui		

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
5350.64	53.12	-20.88	74	44.63	34.54	8.8	34.85	102	310	Peak
5454	41.9	-12.1	54	33.32	34.58	8.81	34.81	102	310	Average
5751.64	53.22	-20.78	74	44.29	34.73	9.1	34.9	102	310	Peak
5725	42.8	-11.2	54	33.93	34.69	9.07	34.89	102	310	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
5397.2	52.67	-21.33	74	44.3	34.4	8.81	34.84	100	4	Peak
5439.92	41.85	-12.15	54	33.39	34.47	8.81	34.82	100	4	Average
5745.64	52.87	-21.13	74	43.97	34.7	9.1	34.9	100	4	Peak
5759.56	42.27	-11.73	54	33.37	34.71	9.1	34.91	100	4	Average



Test Mode :	802.11ac VHT80	Temperature :	21~23°C
Test Channel :	42	Relative Humidity :	46~47%
Test Engineer :	Jet Lui		

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
5145.5	66.5	-7.5	74	58.37	34.42	8.65	34.94	103	330	Peak
5149.4	48.97	-5.03	54	40.84	34.42	8.65	34.94	103	330	Average
5372.88	52.73	-21.27	74	44.23	34.55	8.8	34.85	103	330	Peak
5352.86	42.08	-11.92	54	33.59	34.54	8.8	34.85	103	330	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
5148.95	58.12	-15.88	74	50.23	34.18	8.65	34.94	156	267	Peak
5142.5	43.08	-10.92	54	35.2	34.18	8.65	34.95	156	267	Average
5358.47	53.19	-20.81	74	44.94	34.3	8.8	34.85	156	267	Peak
5361.99	41.84	-12.16	54	33.56	34.33	8.8	34.85	156	267	Average



Test Mode :	802.11ac VHT80	Temperature :	21~23°C
Test Channel :	58	Relative Humidity :	46~47%
Test Engineer :	Jet Lui		

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
5116.85	52.6	-21.4	74	44.57	34.39	8.6	34.96	122	313	Peak
5149.85	41.87	-12.13	54	33.74	34.42	8.65	34.94	122	313	Average
5359.68	60.46	-13.54	74	51.97	34.54	8.8	34.85	122	313	Peak
5352.86	43.73	-10.27	54	35.24	34.54	8.8	34.85	122	313	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
5018	52.4	-21.6	74	44.77	34.29	8.33	34.99	154	302	Peak
5148.35	41.47	-12.53	54	33.58	34.18	8.65	34.94	154	302	Average
5362.21	54.07	-19.93	74	45.79	34.33	8.8	34.85	154	302	Peak
5371.56	41.95	-12.05	54	33.67	34.33	8.8	34.85	154	302	Average



Test Mode :	802.11ac VHT80	Temperature :	21~23°C
Test Channel :	106	Relative Humidity :	46~47%
Test Engineer :	Jet Lui		

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
5465.68	62.47	-11.53	74	53.88	34.59	8.81	34.81	121	10	Peak
5465.2	46.96	-7.04	54	38.37	34.59	8.81	34.81	121	10	Average
5732.68	53.67	-20.33	74	44.81	34.69	9.07	34.9	121	10	Peak
5757.88	42.39	-11.61	54	33.47	34.73	9.1	34.91	121	10	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
5468.24	56.48	-17.52	74	47.95	34.53	8.81	34.81	100	351	Peak
5468.4	43.42	-10.58	54	34.89	34.53	8.81	34.81	100	351	Average
5741.48	52.93	-21.07	74	44.03	34.7	9.1	34.9	100	351	Peak
5760.28	42.25	-11.75	54	33.35	34.71	9.1	34.91	100	351	Average



Test Mode :	802.11a	Temperature :	21~23°C
Test Channel :	149	Relative Humidity :	46~47%
Test Engineer :	Jet Lui		

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
5724.12	57.28	-16.72	74	48.41	34.69	9.07	34.89	104	319	Peak
5724.84	42.56	-11.44	54	33.69	34.69	9.07	34.89	104	319	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
5723.96	63.29	-10.71	74	54.42	34.69	9.07	34.89	100	24	Peak
5724.68	44.26	-9.74	54	35.39	34.69	9.07	34.89	100	24	Average

Test Mode :	802.11a	Temperature :	21~23°C
Test Channel :	165	Relative Humidity :	46~47%
Test Engineer :	Jet Lui		

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
5851.92	55.96	-18.04	74	46.66	34.9	9.34	34.94	102	282	Peak
5872	42.64	-11.36	54	33.19	34.97	9.43	34.95	102	282	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
5850.96	60.65	-13.35	74	51.47	34.78	9.34	34.94	100	351	Peak
5850	43.41	-10.59	54	34.23	34.78	9.34	34.94	100	351	Average



Test Mode :	802.11n HT20	Temperature :	21~23°C
Test Channel :	149	Relative Humidity :	46~47%
Test Engineer :	Jet Lui		

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
5724.12	62.98	-11.02	74	54.11	34.69	9.07	34.89	100	310	Peak
5724.84	42.78	-11.22	54	33.91	34.69	9.07	34.89	100	310	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
5722.44	68.15	-5.85	74	59.28	34.69	9.07	34.89	100	5	Peak
5725	44.93	-9.07	54	36.06	34.69	9.07	34.89	100	5	Average

Test Mode :	802.11n HT20	Temperature :	21~23°C
Test Channel :	165	Relative Humidity :	46~47%
Test Engineer :	Jet Lui		

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
5852.24	57.65	-16.35	74	48.35	34.9	9.34	34.94	111	283	Peak
5868.64	42.61	-11.39	54	33.2	34.93	9.43	34.95	111	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
5850.88	64.72	-9.28	74	55.54	34.78	9.34	34.94	100	353	Peak
5851.12	43.18	-10.82	54	34	34.78	9.34	34.94	100	353	Average



Test Mode :	802.11n HT40	Temperature :	21~23°C
Test Channel :	151	Relative Humidity :	46~47%
Test Engineer :	Jet Lui		

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
5718.92	56.12	-17.88	74	47.25	34.69	9.07	34.89	100	311	Peak
5724.36	43.39	-10.61	54	34.52	34.69	9.07	34.89	100	311	Average
5860.56	53.75	-20.25	74	44.34	34.93	9.43	34.95	100	311	Peak
5882.56	42.79	-11.21	54	33.34	34.97	9.43	34.95	100	311	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
5723.8	63.52	-10.48	74	54.65	34.69	9.07	34.89	100	5	Peak
5721	46.53	-7.47	54	37.66	34.69	9.07	34.89	100	5	Average
5868.08	53.3	-20.7	74	44.03	34.79	9.43	34.95	100	5	Peak
5866.8	42.61	-11.39	54	33.34	34.79	9.43	34.95	100	5	Average



Test Mode :	802.11n HT40	Temperature :	21~23°C
Test Channel :	159	Relative Humidity :	46~47%
Test Engineer :	Jet Lui		

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
5718.92	53.06	-20.94	74	44.19	34.69	9.07	34.89	100	311	Peak
5724.28	42.11	-11.89	54	33.24	34.69	9.07	34.89	100	311	Average
5859.92	54.1	-19.9	74	44.78	34.93	9.34	34.95	100	311	Peak
5881.84	42.77	-11.23	54	33.32	34.97	9.43	34.95	100	311	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
5714.04	53.61	-20.39	74	44.76	34.69	9.05	34.89	100	13	Peak
5724.92	42.46	-11.54	54	33.59	34.69	9.07	34.89	100	13	Average
5855.36	54.74	-19.26	74	45.55	34.79	9.34	34.94	100	13	Peak
5858.96	43.02	-10.98	54	33.84	34.79	9.34	34.95	100	13	Average





Test Mode :	802.11ac VHT80	Temperature :	21~23°C
Test Channel :	155	Relative Humidity :	46~47%
Test Engineer :	Jet Lui		

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
5720.36	55.8	-18.2	74	46.93	34.69	9.07	34.89	100	310	Peak
5724.6	42.7	-11.3	54	33.83	34.69	9.07	34.89	100	310	Average
5852.4	55.03	-18.97	74	45.73	34.9	9.34	34.94	100	310	Peak
5878.8	42.82	-11.18	54	33.37	34.97	9.43	34.95	100	310	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
5724.28	65.34	-8.66	74	56.47	34.69	9.07	34.89	100	5	Peak
5717.4	45.76	-8.24	54	36.89	34.69	9.07	34.89	100	5	Average
5850.56	56.26	-17.74	74	47.08	34.78	9.34	34.94	100	5	Peak
5851.2	42.88	-11.12	54	33.7	34.78	9.34	34.94	100	5	Average

3.5.6.2 Test Result of Unwanted Radiated Emission (30MHz ~ 10th Harmonic)

<b>Test Mode :</b>	802.11a	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	36	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	<ol style="list-style-type: none"> <li>1. 5178 MHz is fundamental signal which can be ignored.</li> <li>2. 10359 MHz is not within a restricted band and satisfies both the average and peak limits of 15.209.</li> <li>3. Average measurement was not performed if peak level went lower than the average limit.</li> </ol>		

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
66.72	20.78	-19.22	40	46.59	5.16	0.97	31.94	-	-	Peak
103.17	24.12	-19.38	43.5	44.23	10.61	1.19	31.91	-	-	Peak
134.22	25.27	-18.23	43.5	44.45	11.31	1.35	31.84	100	158	Peak
405.7	22.87	-23.13	46	35.84	16.16	2.33	31.46	-	-	Peak
687.1	23.94	-22.06	46	33.09	18.82	3.02	30.99	-	-	Peak
745.9	24.52	-21.48	46	32.4	19.88	3.14	30.9	-	-	Peak
5178	95.63	-	-	87.4	34.45	8.71	34.93	126	314	Average
5178	106.33	-	-	98.1	34.45	8.71	34.93	126	314	Peak
10359	49.78	-24.22	74	55.45	37.69	12	55.36	100	0	Peak



<b>Test Mode :</b>	802.11a	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	36	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Vertical
<b>Remark :</b>	<ol style="list-style-type: none"> <li>1. 5178 MHz is fundamental signal which can be ignored.</li> <li>2. 10359 MHz is not within a restricted band and satisfies both the average and peak limits of 15.209.</li> <li>3. Average measurement was not performed if peak level went lower than the average limit.</li> </ol>		

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
42.15	32.72	-7.28	40	52.85	11.1	0.76	31.99	100	47	Peak
66.45	31.8	-8.2	40	57.5	5.27	0.97	31.94	-	-	Peak
97.77	27.69	-15.81	43.5	48.82	9.65	1.15	31.93	-	-	Peak
490.4	25.29	-20.71	46	36.98	16.94	2.55	31.18	-	-	Peak
529.6	25.16	-20.84	46	36.05	17.68	2.67	31.24	-	-	Peak
673.1	26	-20	46	35.13	18.87	2.99	30.99	-	-	Peak
5178	87.59	-	-	79.66	34.15	8.71	34.93	110	355	Average
5178	98.37	-	-	90.44	34.15	8.71	34.93	110	355	Peak
10359	50.97	-23.03	74	57.18	37.15	12	55.36	100	0	Peak



<b>Test Mode :</b>	802.11a	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	44	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	1. 5218 MHz is fundamental signal which can be ignored. 2. 10440 MHz is not within a restricted band and satisfies both the average and peak limits of 15.209. 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
5218	95.13	-	-	86.81	34.47	8.77	34.92	103	332	Average
5218	105.95	-	-	97.63	34.47	8.77	34.92	103	332	Peak
10440	49.98	-24.02	74	55.47	37.75	12.04	55.28	100	0	Peak

<b>Test Mode :</b>	802.11a	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	44	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Vertical
<b>Remark :</b>	1. 5218 MHz is fundamental signal which can be ignored. 2. 10440 MHz is not within a restricted band and satisfies both the average and peak limits of 15.209. 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
5218	89.39	-	-	81.41	34.13	8.77	34.92	117	294	Average
5218	100.34	-	-	92.36	34.13	8.77	34.92	117	294	Peak
10440	50.72	-23.28	74	56.83	37.13	12.04	55.28	100	0	Peak



<b>Test Mode :</b>	802.11a	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	48	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	1. 5238 MHz is fundamental signal which can be ignored. 2. 10479 MHz is not within a restricted band and satisfies both the average and peak limits of 15.209. 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
5238	94.8	-	-	86.45	34.49	8.77	34.91	125	313	Average
5238	105.73	-	-	97.38	34.49	8.77	34.91	125	313	Peak
10479	50.57	-23.43	74	55.93	37.79	12.07	55.22	100	0	Peak

<b>Test Mode :</b>	802.11a	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	48	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Vertical
<b>Remark :</b>	1. 5238 MHz is fundamental signal which can be ignored. 2. 10479 MHz is not within a restricted band and satisfies both the average and peak limits of 15.209. 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
5238	89.22	-	-	81.25	34.11	8.77	34.91	129	293	Average
5238	100.09	-	-	92.12	34.11	8.77	34.91	129	293	Peak
10479	49.61	-24.39	74	55.65	37.11	12.07	55.22	100	0	Peak



<b>Test Mode :</b>	802.11a	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	52	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	1. 5262 MHz is fundamental signal which can be ignored. 2. 10521 MHz is not within a restricted band and satisfies both the average and peak limits of 15.209. 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
5262	96.03	-	-	87.63	34.51	8.78	34.89	104	354	Average
5262	106.47	-	-	98.07	34.51	8.78	34.89	104	354	Peak
10521	50.16	-23.84	74	55.43	37.81	12.1	55.18	100	0	Peak

<b>Test Mode :</b>	802.11a	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	52	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Vertical
<b>Remark :</b>	1. 5258 MHz is fundamental signal which can be ignored. 2. 10521 MHz is not within a restricted band and satisfies both the average and peak limits of 15.209. 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
5258	88.24	-	-	80.26	34.1	8.77	34.89	142	316	Average
5258	99.21	-	-	91.23	34.1	8.77	34.89	142	316	Peak
10521	50.86	-23.14	74	56.83	37.11	12.1	55.18	100	0	Peak



<b>Test Mode :</b>	802.11a	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	60	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	1. 5302 MHz is fundamental signal which can be ignored. 2. 10599 MHz is not within a restricted band and satisfies both the average and peak limits of 15.209. 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
5302	94.58	-	-	86.15	34.52	8.78	34.87	100	330	Average
5302	105.02	-	-	96.59	34.52	8.78	34.87	100	330	Peak
10599	50.45	-23.55	74	55.55	37.84	12.14	55.08	100	0	Peak

<b>Test Mode :</b>	802.11a	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	60	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Vertical
<b>Remark :</b>	1. 5298 MHz is fundamental signal which can be ignored. 2. 10599 MHz is not within a restricted band and satisfies both the average and peak limits of 15.209.		

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
5298	87.8	-	-	79.69	34.2	8.78	34.87	128	284	Average
5298	98.54	-	-	90.43	34.2	8.78	34.87	128	284	Peak
10599	40.14	-13.86	54	45.9	37.18	12.14	55.08	128	104	Average
10599	51.17	-22.83	74	56.93	37.18	12.14	55.08	128	104	Peak



<b>Test Mode :</b>	802.11a	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	64	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	1. 5318 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
66.45	21.22	-18.78	40	47.03	5.16	0.97	31.94	-	-	Peak
102.63	24.24	-19.26	43.5	44.35	10.61	1.19	31.91	-	-	Peak
134.22	25.48	-18.02	43.5	44.66	11.31	1.35	31.84	100	55	Peak
307.7	22.05	-23.95	46	38.38	13.31	2.03	31.67	-	-	Peak
414.8	23.13	-22.87	46	35.79	16.4	2.36	31.42	-	-	Peak
835.5	25.1	-20.9	46	32.36	20.23	3.34	30.83	-	-	Peak
5318	94.63	-	-	86.18	34.53	8.79	34.87	101	335	Average
5318	105.18	-	-	96.73	34.53	8.79	34.87	101	335	Peak
10641	50.64	-23.36	74	55.66	37.85	12.16	55.03	100	0	Peak





<b>Test Mode :</b>	802.11a	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	64	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Vertical
<b>Remark :</b>	1. 5318 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
42.15	32.34	-7.66	40	52.47	11.1	0.76	31.99	100	63	Peak
66.45	31.8	-8.2	40	57.5	5.27	0.97	31.94	-	-	Peak
124.77	27.69	-15.81	43.5	47.12	11.15	1.3	31.88	-	-	Peak
405.7	23.84	-22.16	46	36.59	16.38	2.33	31.46	-	-	Peak
529.6	24.78	-21.22	46	35.67	17.68	2.67	31.24	-	-	Peak
673.1	25.39	-20.61	46	34.52	18.87	2.99	30.99	-	-	Peak
5318	87.83	-	-	79.68	34.23	8.79	34.87	127	270	Average
5318	98.21	-	-	90.06	34.23	8.79	34.87	127	270	Peak
10641	49.89	-24.11	74	55.55	37.21	12.16	55.03	100	0	Peak



<b>Test Mode :</b>	802.11a	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	100	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	1. 5498 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
5498	90	-	-	81.39	34.6	8.81	34.8	152	55	Average
5498	100.5	-	-	91.89	34.6	8.81	34.8	152	55	Peak
11001	50.5	-23.5	74	54.77	38	12.33	54.6	100	0	Peak

<b>Test Mode :</b>	802.11a	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	100	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Vertical
<b>Remark :</b>	5498 MHz is fundamental signal which can be ignored.		

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
5498	85.23	-	-	76.62	34.6	8.81	34.8	100	23	Average
5498	95.47	-	-	86.86	34.6	8.81	34.8	100	23	Peak
11001	41.14	-12.86	54	46.01	37.4	12.33	54.6	134	205	Average
11001	51.27	-22.73	74	56.14	37.4	12.33	54.6	134	205	Peak



<b>Test Mode :</b>	802.11a	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	116	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	1. 5578 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
5578	90.51	-	-	81.82	34.63	8.9	34.84	126	294	Average
5578	101.06	-	-	92.37	34.63	8.9	34.84	126	294	Peak
11160	50.49	-23.51	74	54.04	38.27	12.51	54.33	100	0	Peak

<b>Test Mode :</b>	802.11a	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	116	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Vertical
<b>Remark :</b>	1. 5582 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
5582	84.57	-	-	75.87	34.64	8.9	34.84	101	356	Average
5582	95.01	-	-	86.31	34.64	8.9	34.84	101	356	Peak
11160	49.68	-24.32	74	54.03	37.47	12.51	54.33	100	0	Peak



<b>Test Mode :</b>	802.11a	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	140	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	5702 MHz is fundamental signal which can be ignored.		

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
102.9	24.28	-19.22	43.5	44.39	10.61	1.19	31.91	-	-	Peak
134.49	25.74	-17.76	43.5	44.92	11.31	1.35	31.84	100	122	Peak
285.42	22.9	-23.1	46	39.96	12.66	1.96	31.68	-	-	Peak
378.4	23.11	-22.89	46	37.43	15.05	2.24	31.61	-	-	Peak
716.5	24.22	-21.78	46	32.84	19.26	3.08	30.96	-	-	Peak
871.9	25.39	-20.61	46	32.44	20.23	3.42	30.7	-	-	Peak
5702	90.95	-	-	82.09	34.69	9.05	34.88	113	303	Average
5702	101.89	-	-	93.03	34.69	9.05	34.88	113	303	Peak
11400	43.26	-10.74	54	45.9	38.52	12.8	53.96	102	165	Average
11400	51.48	-22.52	74	54.12	38.52	12.8	53.96	102	165	Peak



<b>Test Mode :</b>	802.11a	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	140	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Vertical
<b>Remark :</b>	5698 MHz is fundamental signal which can be ignored.		

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
42.42	32.52	-7.48	40	52.65	11.1	0.76	31.99	100	85	Peak
66.45	31.15	-8.85	40	56.85	5.27	0.97	31.94	-	-	Peak
96.42	29.49	-14.01	43.5	50.66	9.65	1.14	31.96	-	-	Peak
405.7	23.79	-22.21	46	36.54	16.38	2.33	31.46	-	-	Peak
673.1	25.61	-20.39	46	34.74	18.87	2.99	30.99	-	-	Peak
876.1	25.51	-20.49	46	32.44	20.33	3.43	30.69	-	-	Peak
5698	84.88	-	-	76.03	34.68	9.05	34.88	100	4	Average
5698	95.55	-	-	86.7	34.68	9.05	34.88	100	4	Peak
11400	42.65	-11.35	54	46.13	37.68	12.8	53.96	135	204	Average
11400	51.79	-22.21	74	55.27	37.68	12.8	53.96	135	204	Peak



<b>Test Mode :</b>	802.11n HT20	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	36	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	1. 5178 MHz is fundamental signal which can be ignored. 2. 10359 MHz is not within a restricted band and satisfies both the average and peak limits of 15.209.		

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
103.17	24.45	-19.05	43.5	44.56	10.61	1.19	31.91	-	-	Peak
133.68	25.9	-17.6	43.5	45.08	11.31	1.35	31.84	100	31	Peak
200.1	21.91	-21.59	43.5	43.15	8.82	1.64	31.7	-	-	Peak
391.7	23.13	-22.87	46	36.88	15.5	2.28	31.53	-	-	Peak
628.3	23.07	-22.93	46	32.57	18.68	2.89	31.07	-	-	Peak
805.4	25.44	-20.56	46	32.96	20.15	3.27	30.94	-	-	Peak
5178	94.44	-	-	86.21	34.45	8.71	34.93	102	314	Average
5178	105.34	-	-	97.11	34.45	8.71	34.93	102	314	Peak
10359	49.89	-24.11	74	55.56	37.69	12	55.36	100	0	Peak



<b>Test Mode :</b>	802.11n HT20	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	36	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Vertical
<b>Remark :</b>	<ol style="list-style-type: none"> <li>5182 MHz is fundamental signal which can be ignored.</li> <li>10359 MHz is not within a restricted band and satisfies both the average and peak limits of 15.209.</li> <li>Average measurement was not performed if peak level went lower than the average limit.</li> </ol>		

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
42.15	31.89	-8.11	40	52.02	11.1	0.76	31.99	100	96	Peak
66.45	31.7	-8.3	40	57.4	5.27	0.97	31.94	-	-	Peak
173.91	20.14	-23.36	43.5	41.95	8.45	1.54	31.8	-	-	Peak
408.5	23.44	-22.56	46	36.07	16.48	2.34	31.45	-	-	Peak
529.6	25.58	-20.42	46	36.47	17.68	2.67	31.24	-	-	Peak
673.1	25.63	-20.37	46	34.76	18.87	2.99	30.99	-	-	Peak
5182	86.78	-	-	78.85	34.15	8.71	34.93	109	356	Average
5182	97.37	-	-	89.44	34.15	8.71	34.93	109	356	Peak
10359	50.11	-23.89	74	56.32	37.15	12	55.36	100	0	Peak



<b>Test Mode :</b>	802.11n HT20	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	44	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	<ol style="list-style-type: none"> <li>5222 MHz is fundamental signal which can be ignored.</li> <li>10440 MHz is not within a restricted band and satisfies both the average and peak limits of 15.209.</li> <li>Average measurement was not performed if peak level went lower than the average limit.</li> </ol>		

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
5222	93.8	-	-	85.47	34.47	8.77	34.91	100	313	Average
5222	104.68	-	-	96.35	34.47	8.77	34.91	100	313	Peak
10440	49.81	-24.19	74	55.3	37.75	12.04	55.28	100	0	Peak

<b>Test Mode :</b>	802.11n HT20	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	44	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Vertical
<b>Remark :</b>	<ol style="list-style-type: none"> <li>5218 MHz is fundamental signal which can be ignored.</li> <li>10440 MHz is not within a restricted band and satisfies both the average and peak limits of 15.209.</li> <li>Average measurement was not performed if peak level went lower than the average limit.</li> </ol>		

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
5218	87.78	-	-	79.8	34.13	8.77	34.92	159	272	Average
5218	99.97	-	-	91.99	34.13	8.77	34.92	159	272	Peak
10440	49.71	-24.29	74	55.82	37.13	12.04	55.28	100	0	Peak





<b>Test Mode :</b>	802.11n HT20	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	48	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	1. 5240 MHz is fundamental signal which can be ignored. 2. 10479 MHz is not within a restricted band and satisfies both the average and peak limits of 15.209.		

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
5240	93.71	-	-	85.36	34.49	8.77	34.91	125	316	Average
5240	104.68	-	-	96.33	34.49	8.77	34.91	125	316	Peak
10479	40.76	-13.24	54	46.12	37.79	12.07	55.22	125	214	Average
10479	51.1	-22.9	74	56.46	37.79	12.07	55.22	125	214	Peak

<b>Test Mode :</b>	802.11n HT20	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	48	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Vertical
<b>Remark :</b>	1. 5238 MHz is fundamental signal which can be ignored. 2. 10480 MHz is not within a restricted band and satisfies both the average and peak limits of 15.209. 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
5238	87.9	-	-	79.93	34.11	8.77	34.91	129	284	Average
5238	98.43	-	-	90.46	34.11	8.77	34.91	129	284	Peak
10480	49.76	-24.24	74	55.8	37.11	12.07	55.22	100	0	Peak



<b>Test Mode :</b>	802.11n HT20	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	52	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	1. 5258 MHz is fundamental signal which can be ignored. 2. 10521 MHz is not within a restricted band and satisfies both the average and peak limits of 15.209. 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
5258	94.34	-	-	85.96	34.5	8.77	34.89	127	349	Average
5258	104.92	-	-	96.54	34.5	8.77	34.89	127	349	Peak
10521	50.23	-23.77	74	55.5	37.81	12.1	55.18	100	0	Peak

<b>Test Mode :</b>	802.11n HT20	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	52	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Vertical
<b>Remark :</b>	1. 5262 MHz is fundamental signal which can be ignored. 2. 10521 MHz is not within a restricted band and satisfies both the average and peak limits of 15.209. 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
5262	86.6	-	-	78.58	34.13	8.78	34.89	129	303	Average
5262	97.77	-	-	89.75	34.13	8.78	34.89	129	303	Peak
10521	49.19	-24.81	74	55.16	37.11	12.1	55.18	100	0	Peak



<b>Test Mode :</b>	802.11n HT20	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	60	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	1. 5302 MHz is fundamental signal which can be ignored. 2. 10599 MHz is not within a restricted band and satisfies both the average and peak limits of 15.209. 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
5302	93.99	-	-	85.56	34.52	8.78	34.87	102	360	Average
5302	104.58	-	-	96.15	34.52	8.78	34.87	102	360	Peak
10599	50.34	-23.66	74	55.44	37.84	12.14	55.08	100	0	Peak

<b>Test Mode :</b>	802.11n HT20	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	60	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Vertical
<b>Remark :</b>	1. 5302 MHz is fundamental signal which can be ignored. 2. 10599 MHz is not within a restricted band and satisfies both the average and peak limits of 15.209. 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
5302	86.55	-	-	78.44	34.2	8.78	34.87	141	285	Average
5302	97	-	-	88.89	34.2	8.78	34.87	141	285	Peak
10599	49.8	-24.2	74	55.56	37.18	12.14	55.08	100	0	Peak



<b>Test Mode :</b>	802.11n HT20	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	64	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	1. 5318 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
66.45	24.87	-15.13	40	50.68	5.16	0.97	31.94	100	111	Peak
133.68	26.11	-17.39	43.5	45.29	11.31	1.35	31.84	-	-	Peak
200.64	23.13	-20.37	43.5	44.36	8.83	1.64	31.7	-	-	Peak
395.2	23.26	-22.74	46	36.88	15.59	2.3	31.51	-	-	Peak
673.1	24.06	-21.94	46	33.12	18.94	2.99	30.99	-	-	Peak
726.3	24.39	-21.61	46	32.77	19.46	3.1	30.94	-	-	Peak
5318	92.98	-	-	84.53	34.53	8.79	34.87	101	360	Average
5318	103.56	-	-	95.11	34.53	8.79	34.87	101	360	Peak
10641	50.97	-23.03	74	55.99	37.85	12.16	55.03	100	0	Peak



<b>Test Mode :</b>	802.11n HT20	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	64	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Vertical
<b>Remark :</b>	1. 5318 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
42.15	32.4	-7.6	40	52.53	11.1	0.76	31.99	100	163	Peak
66.72	32.35	-7.65	40	58.05	5.27	0.97	31.94	-	-	Peak
98.31	27.54	-15.96	43.5	48.53	9.79	1.15	31.93	-	-	Peak
482.7	25.13	-20.87	46	36.94	16.86	2.53	31.2	-	-	Peak
673.1	25.65	-20.35	46	34.78	18.87	2.99	30.99	-	-	Peak
893.6	25.62	-20.38	46	32.02	20.75	3.48	30.63	-	-	Peak
5318	86.48	-	-	78.33	34.23	8.79	34.87	126	283	Average
5318	96.37	-	-	88.22	34.23	8.79	34.87	126	283	Peak
10641	49.76	-24.24	74	55.42	37.21	12.16	55.03	100	0	Peak



<b>Test Mode :</b>	802.11n HT20	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	100	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	1. 5498 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
5498	90.25	-	-	81.64	34.6	8.81	34.8	132	346	Average
5498	101.08	-	-	92.47	34.6	8.81	34.8	132	346	Peak
11001	50.97	-23.03	74	55.24	38	12.33	54.6	100	0	Peak

<b>Test Mode :</b>	802.11n HT20	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	100	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Vertical
<b>Remark :</b>	1. 5498 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
5498	82.47	-	-	73.86	34.6	8.81	34.8	112	284	Average
5498	93.07	-	-	84.46	34.6	8.81	34.8	112	284	Peak
11001	50.28	-23.72	74	55.15	37.4	12.33	54.6	100	0	Peak



<b>Test Mode :</b>	802.11n HT20	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	116	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	5582 MHz is fundamental signal which can be ignored.		

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
5582	88.86	-	-	80.16	34.64	8.9	34.84	125	303	Average
5582	99.4	-	-	90.7	34.64	8.9	34.84	125	303	Peak
11160	42.33	-11.67	54	45.88	38.27	12.51	54.33	124	255	Average
11160	51.37	-22.63	74	54.92	38.27	12.51	54.33	124	255	Peak

<b>Test Mode :</b>	802.11n HT20	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	116	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Vertical
<b>Remark :</b>	1. 5582 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
5582	81.16	-	-	72.46	34.64	8.9	34.84	100	332	Average
5582	91.79	-	-	83.09	34.64	8.9	34.84	100	332	Peak
11160	50.4	-23.6	74	54.75	37.47	12.51	54.33	100	0	Peak



<b>Test Mode :</b>	802.11n HT20	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	140	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	5702 MHz is fundamental signal which can be ignored.		

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
66.72	23.24	-16.76	40	49.05	5.16	0.97	31.94	100	99	Peak
102.9	24.91	-18.59	43.5	45.02	10.61	1.19	31.91	-	-	Peak
133.68	25.81	-17.69	43.5	44.99	11.31	1.35	31.84	-	-	Peak
397.3	22.79	-23.21	46	36.3	15.69	2.3	31.5	-	-	Peak
699	24.73	-21.27	46	33.63	19.05	3.05	31	-	-	Peak
926.5	26.09	-19.91	46	32.38	20.74	3.53	30.56	-	-	Peak
5702	89.14	-	-	80.28	34.69	9.05	34.88	125	312	Average
5702	99.2	-	-	90.34	34.69	9.05	34.88	125	312	Peak
11400	43.62	-10.38	54	46.26	38.52	12.8	53.96	189	268	Average
11400	52.73	-21.27	74	55.37	38.52	12.8	53.96	189	268	Peak





<b>Test Mode :</b>	802.11n HT20	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	140	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Vertical
<b>Remark :</b>	5702 MHz is fundamental signal which can be ignored.		

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
42.15	32.32	-7.68	40	52.45	11.1	0.76	31.99	-	-	Peak
66.45	32.36	-7.64	40	58.06	5.27	0.97	31.94	100	123	Peak
97.5	27.64	-15.86	43.5	48.79	9.65	1.15	31.95	-	-	Peak
405	23.53	-22.47	46	36.39	16.27	2.33	31.46	-	-	Peak
501.6	25.15	-20.85	46	36.61	17.11	2.6	31.17	-	-	Peak
673.1	25.66	-20.34	46	34.79	18.87	2.99	30.99	-	-	Peak
5702	83.04	-	-	74.18	34.69	9.05	34.88	109	7	Average
5702	93.63	-	-	84.77	34.69	9.05	34.88	109	7	Peak
11400	42.39	-11.61	54	45.87	37.68	12.8	53.96	175	210	Average
11400	51.18	-22.82	74	54.66	37.68	12.8	53.96	175	210	Peak



<b>Test Mode :</b>	802.11n HT40	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	38	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	1. 5192 MHz is fundamental signal which can be ignored. 2. 10380 MHz is not within a restricted band and satisfies both the average and peak limits of 15.209. 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
102.36	24.49	-19.01	43.5	44.61	10.61	1.18	31.91	-	-	Peak
134.22	25.71	-17.79	43.5	44.89	11.31	1.35	31.84	100	148	Peak
285.96	22.45	-23.55	46	39.51	12.66	1.96	31.68	-	-	Peak
414.8	23.2	-22.8	46	35.86	16.4	2.36	31.42	-	-	Peak
692	25.31	-20.69	46	34.41	18.87	3.03	31	-	-	Peak
750.8	25.25	-20.75	46	33.03	19.96	3.15	30.89	-	-	Peak
5192	91.26	-	-	82.97	34.46	8.76	34.93	100	311	Average
5192	101.87	-	-	93.58	34.46	8.76	34.93	100	311	Peak
10380	50.09	-23.91	74	55.71	37.71	12.01	55.34	100	0	Peak



<b>Test Mode :</b>	802.11n HT40	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	38	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Vertical
<b>Remark :</b>	1. 5188 MHz is fundamental signal which can be ignored. 2. 10380 MHz is not within a restricted band and satisfies both the average and peak limits of 15.209. 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
42.15	32.43	-7.57	40	52.56	11.1	0.76	31.99	100	274	Peak
66.45	32.05	-7.95	40	57.75	5.27	0.97	31.94	-	-	Peak
128.55	27.23	-16.27	43.5	46.4	11.37	1.32	31.86	-	-	Peak
494.6	24.44	-21.56	46	36.03	17.01	2.57	31.17	-	-	Peak
673.1	25.95	-20.05	46	35.08	18.87	2.99	30.99	-	-	Peak
847.4	26.3	-19.7	46	33.61	20.12	3.36	30.79	-	-	Peak
5188	86.42	-	-	78.49	34.15	8.71	34.93	131	276	Average
5188	96.05	-	-	88.12	34.15	8.71	34.93	131	276	Peak
10380	49.45	-24.55	74	55.63	37.15	12.01	55.34	100	0	Peak



<b>Test Mode :</b>	802.11n HT40	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	46	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	1. 5232 MHz is fundamental signal which can be ignored. 2. 10461 MHz is not within a restricted band and satisfies both the average and peak limits of 15.209. 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
5232	91.47	-	-	83.12	34.49	8.77	34.91	102	330	Average
5232	101.48	-	-	93.13	34.49	8.77	34.91	102	330	Peak
10461	50.15	-23.85	74	55.56	37.77	12.06	55.24	100	0	Peak

<b>Test Mode :</b>	802.11n HT40	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	46	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Vertical
<b>Remark :</b>	1. 5232 MHz is fundamental signal which can be ignored. 2. 10461 MHz is not within a restricted band and satisfies both the average and peak limits of 15.209. 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
5232	85.38	-	-	77.41	34.11	8.77	34.91	131	276	Average
5232	96.64	-	-	88.67	34.11	8.77	34.91	131	276	Peak
10461	49.82	-24.18	74	55.89	37.11	12.06	55.24	100	0	Peak



<b>Test Mode :</b>	802.11n HT40	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	54	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	1. 5268 MHz is fundamental signal which can be ignored. 2. 10539 MHz is not within a restricted band and satisfies both the average and peak limits of 15.209. 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
5268	91.47	-	-	83.07	34.51	8.78	34.89	100	331	Average
5268	101.7	-	-	93.3	34.51	8.78	34.89	100	331	Peak
10539	50.38	-23.62	74	55.63	37.81	12.1	55.16	100	0	Peak

<b>Test Mode :</b>	802.11n HT40	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	54	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Vertical
<b>Remark :</b>	1. 5268 MHz is fundamental signal which can be ignored. 2. 10539 MHz is not within a restricted band and satisfies both the average and peak limits of 15.209. 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
5268	85.44	-	-	77.42	34.13	8.78	34.89	130	277	Average
5268	95.04	-	-	87.02	34.13	8.78	34.89	130	277	Peak
10539	50.11	-23.89	74	56.04	37.13	12.1	55.16	100	0	Peak



<b>Test Mode :</b>	802.11n HT40	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	62	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	1. 5312 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
66.72	24.87	-15.13	40	50.68	5.16	0.97	31.94	100	14	Peak
103.17	24.96	-18.54	43.5	45.07	10.61	1.19	31.91	-	-	Peak
133.68	26.31	-17.19	43.5	45.49	11.31	1.35	31.84	-	-	Peak
400.8	23.12	-22.88	46	36.41	15.88	2.31	31.48	-	-	Peak
652.1	23.96	-22.04	46	33.07	18.93	2.94	30.98	-	-	Peak
750.8	25.21	-20.79	46	32.99	19.96	3.15	30.89	-	-	Peak
5312	90.66	-	-	82.21	34.53	8.79	34.87	100	333	Average
5312	101.1	-	-	92.65	34.53	8.79	34.87	100	333	Peak
10620	50.76	-23.24	74	55.82	37.85	12.15	55.06	100	0	Peak



<b>Test Mode :</b>	802.11n HT40	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	62	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Vertical
<b>Remark :</b>	1. 5312 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
42.15	32.23	-7.77	40	52.36	11.1	0.76	31.99	100	46	Peak
66.45	32.1	-7.9	40	57.8	5.27	0.97	31.94	-	-	Peak
97.5	27.58	-15.92	43.5	48.73	9.65	1.15	31.95	-	-	Peak
413.4	23.67	-22.33	46	36.16	16.57	2.36	31.42	-	-	Peak
491.1	24.61	-21.39	46	36.29	16.94	2.56	31.18	-	-	Peak
673.1	25.79	-20.21	46	34.92	18.87	2.99	30.99	-	-	Peak
5312	83.36	-	-	75.21	34.23	8.79	34.87	142	285	Average
5312	93.31	-	-	85.16	34.23	8.79	34.87	142	285	Peak
10620	50.03	-23.97	74	55.75	37.19	12.15	55.06	100	0	Peak



<b>Test Mode :</b>	802.11n HT40	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	102	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	1. 5512 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
66.45	23.82	-16.18	40	49.63	5.16	0.97	31.94	100	68	Peak
102.9	24.49	-19.01	43.5	44.6	10.61	1.19	31.91	-	-	Peak
201.72	22.29	-21.21	43.5	43.51	8.83	1.65	31.7	-	-	Peak
558.3	22.99	-23.01	46	33.12	18.4	2.74	31.27	-	-	Peak
640.2	23.02	-22.98	46	32.27	18.85	2.92	31.02	-	-	Peak
762.7	25.52	-20.48	46	33.5	19.75	3.18	30.91	-	-	Peak
5512	87.92	-	-	79.32	34.6	8.81	34.81	120	352	Average
5512	97.89	-	-	89.29	34.6	8.81	34.81	120	352	Peak
11019	50.53	-23.47	74	54.74	38.03	12.33	54.57	100	0	Peak





<b>Test Mode :</b>	802.11n HT40	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	102	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Vertical
<b>Remark :</b>	1. 5508 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
42.15	32.34	-7.66	40	52.47	11.1	0.76	31.99	100	55	Peak
66.72	31.45	-8.55	40	57.15	5.27	0.97	31.94	-	-	Peak
124.77	27.77	-15.73	43.5	47.2	11.15	1.3	31.88	-	-	Peak
407.1	23.47	-22.53	46	36.21	16.38	2.33	31.45	-	-	Peak
492.5	24.93	-21.07	46	36.58	16.97	2.56	31.18	-	-	Peak
673.1	25.87	-20.13	46	35	18.87	2.99	30.99	-	-	Peak
5508	79.99	-	-	71.39	34.6	8.81	34.81	113	353	Average
5508	89.53	-	-	80.93	34.6	8.81	34.81	113	353	Peak
11019	50.01	-23.99	74	54.84	37.41	12.33	54.57	100	0	Peak



<b>Test Mode :</b>	802.11n HT40	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	110	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	1. 5552 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
5552	87.25	-	-	78.59	34.62	8.87	34.83	120	9	Average
5552	97.05	-	-	88.39	34.62	8.87	34.83	120	9	Peak
11100	50.88	-23.12	74	54.71	38.16	12.45	54.44	100	0	Peak

<b>Test Mode :</b>	802.11n HT40	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	110	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Vertical
<b>Remark :</b>	1. 5552 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
5552	79.77	-	-	71.11	34.62	8.87	34.83	101	354	Average
5552	89.5	-	-	80.84	34.62	8.87	34.83	101	354	Peak
11100	50.19	-23.81	74	54.74	37.44	12.45	54.44	100	0	Peak



<b>Test Mode :</b>	802.11n HT40	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	134	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	5672 MHz is fundamental signal which can be ignored.		

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
5672	88.25	-	-	79.43	34.67	9.02	34.87	102	310	Average
5672	98.15	-	-	89.33	34.67	9.02	34.87	102	310	Peak
11340	43.01	-10.99	54	45.87	38.47	12.74	54.07	162	245	Average
11340	51.64	-22.36	74	54.5	38.47	12.74	54.07	162	245	Peak

<b>Test Mode :</b>	802.11n HT40	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	134	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Vertical
<b>Remark :</b>	5670 MHz is fundamental signal which can be ignored.		

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
5670	80.16	-	-	71.34	34.67	9.02	34.87	100	4	Average
5670	90.6	-	-	81.78	34.67	9.02	34.87	100	4	Peak
11340	42.7	-11.3	54	46.43	37.6	12.74	54.07	128	264	Average
11340	52.61	-21.39	74	56.34	37.6	12.74	54.07	128	264	Peak



<b>Test Mode :</b>	802.11ac VHT80	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	42	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	1. 5212 MHz is fundamental signal which can be ignored. 2. 10419 MHz is not within a restricted band and satisfies both the average and peak limits of 15.209. 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
66.45	22.82	-17.18	40	48.63	5.16	0.97	31.94	100	114	Peak
102.9	24.51	-18.99	43.5	44.62	10.61	1.19	31.91	-	-	Peak
133.68	26.15	-17.35	43.5	45.33	11.31	1.35	31.84	-	-	Peak
414.1	23.86	-22.14	46	36.52	16.4	2.36	31.42	-	-	Peak
631.8	23.62	-22.38	46	33.08	18.69	2.9	31.05	-	-	Peak
723.5	24.45	-21.55	46	32.89	19.41	3.1	30.95	-	-	Peak
5212	88.38	-	-	80.06	34.47	8.77	34.92	103	330	Average
5212	98.64	-	-	90.32	34.47	8.77	34.92	103	330	Peak
10419	50.56	-23.44	74	56.1	37.73	12.03	55.3	100	0	Peak



<b>Test Mode :</b>	802.11ac VHT80	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	42	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Vertical
<b>Remark :</b>	1. 5212 MHz is fundamental signal which can be ignored. 2. 10419 MHz is not within a restricted band and satisfies both the average and peak limits of 15.209. 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
42.42	32.71	-7.29	40	52.84	11.1	0.76	31.99	100	52	Peak
66.72	32.13	-7.87	40	57.83	5.27	0.97	31.94	-	-	Peak
96.96	28.9	-14.6	43.5	50.05	9.65	1.15	31.95	-	-	Peak
507.2	25	-21	46	36.32	17.25	2.61	31.18	-	-	Peak
673.1	26.16	-19.84	46	35.29	18.87	2.99	30.99	-	-	Peak
827.1	25.58	-20.42	46	32.82	20.3	3.32	30.86	-	-	Peak
5212	81.24	-	-	73.26	34.13	8.77	34.92	156	267	Average
5212	91.35	-	-	83.37	34.13	8.77	34.92	156	267	Peak
10419	49.91	-24.09	74	56.05	37.13	12.03	55.3	100	0	Peak



<b>Test Mode :</b>	802.11ac VHT80	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	58	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	1. 5292 MHz is fundamental signal which can be ignored. 2. 10581 MHz is not within a restricted band and satisfies both the average and peak limits of 15.209.		

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
66.45	23.41	-16.59	40	49.22	5.16	0.97	31.94	100	125	Peak
102.9	24.51	-18.99	43.5	44.62	10.61	1.19	31.91	-	-	Peak
134.76	25.28	-18.22	43.5	44.44	11.31	1.36	31.83	-	-	Peak
412.7	23.24	-22.76	46	35.93	16.37	2.36	31.42	-	-	Peak
690.6	24.44	-21.56	46	33.59	18.82	3.03	31	-	-	Peak
876.1	25.97	-20.03	46	32.94	20.29	3.43	30.69	-	-	Peak
5292	86.97	-	-	78.56	34.51	8.78	34.88	122	313	Average
5292	96.83	-	-	88.42	34.51	8.78	34.88	122	313	Peak
10581	40.99	-13.01	54	46.14	37.83	12.12	55.1	145	245	Average
10581	51.19	-22.81	74	56.34	37.83	12.12	55.1	145	245	Peak



<b>Test Mode :</b>	802.11ac VHT80	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	58	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Vertical
<b>Remark :</b>	1. 5292 MHz is fundamental signal which can be ignored. 2. 10580 MHz is not within a restricted band and satisfies both the average and peak limits of 15.209. 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
42.15	33.6	-6.4	40	53.73	11.1	0.76	31.99	100	56	Peak
66.45	32.09	-7.91	40	57.79	5.27	0.97	31.94	-	-	Peak
97.23	27.88	-15.62	43.5	49.03	9.65	1.15	31.95	-	-	Peak
510	25.29	-20.71	46	36.51	17.35	2.62	31.19	-	-	Peak
673.1	25.44	-20.56	46	34.57	18.87	2.99	30.99	-	-	Peak
833.4	25.33	-20.67	46	32.6	20.24	3.33	30.84	-	-	Peak
5292	79.65	-	-	71.58	34.17	8.78	34.88	154	302	Average
5292	90.8	-	-	82.73	34.17	8.78	34.88	154	302	Peak
10580	49.39	-24.61	74	55.2	37.17	12.12	55.1	100	0	Peak



<b>Test Mode :</b>	802.11ac VHT80	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	106	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	1. 5532 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
103.44	24.55	-18.95	43.5	44.66	10.61	1.19	31.91	-	-	Peak
134.22	25.87	-17.63	43.5	45.05	11.31	1.35	31.84	100	221	Peak
202.26	21.96	-21.54	43.5	43.18	8.83	1.65	31.7	-	-	Peak
414.8	22.98	-23.02	46	35.64	16.4	2.36	31.42	-	-	Peak
645.8	24.52	-21.48	46	33.68	18.91	2.93	31	-	-	Peak
706	24.45	-21.55	46	33.26	19.12	3.06	30.99	-	-	Peak
5532	83.35	-	-	74.72	34.61	8.84	34.82	121	10	Average
5532	93.31	-	-	84.68	34.61	8.84	34.82	121	10	Peak
11060	50.68	-23.32	74	54.67	38.11	12.39	54.49	100	0	Peak





<b>Test Mode :</b>	802.11ac VHT80	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	106	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Vertical
<b>Remark :</b>	1. 5532 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
42.15	33.74	-6.26	40	53.87	11.1	0.76	31.99	100	62	Peak
66.45	31.78	-8.22	40	57.48	5.27	0.97	31.94	-	-	Peak
97.5	27.94	-15.56	43.5	49.09	9.65	1.15	31.95	-	-	Peak
503	25.19	-20.81	46	36.6	17.16	2.6	31.17	-	-	Peak
673.1	25.27	-20.73	46	34.4	18.87	2.99	30.99	-	-	Peak
915.3	26.06	-19.94	46	32.43	20.7	3.51	30.58	-	-	Peak
5532	76.7	-	-	68.07	34.61	8.84	34.82	100	351	Average
5532	86.83	-	-	78.2	34.61	8.84	34.82	100	351	Peak
11060	50.1	-23.9	74	54.77	37.43	12.39	54.49	100	0	Peak



<b>Test Mode :</b>	802.11a	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	149	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	5743 MHz is fundamental signal which can be ignored.		

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
102.63	24.58	-18.92	43.5	44.69	10.61	1.19	31.91	-	-	Peak
134.22	25.68	-17.82	43.5	44.86	11.31	1.35	31.84	100	211	Peak
171.48	21.78	-21.72	43.5	43.11	8.95	1.52	31.8	-	-	Peak
400.8	23.14	-22.86	46	36.43	15.88	2.31	31.48	-	-	Peak
674.5	23.59	-22.41	46	32.68	18.91	2.99	30.99	-	-	Peak
769	25.14	-20.86	46	33.16	19.71	3.19	30.92	-	-	Peak
5743	84.81	-	-	75.91	34.7	9.1	34.9	104	319	Average
5743	95.36	-	-	86.46	34.7	9.1	34.9	104	319	Peak
11490	39.93	-14.07	54	42.25	38.59	12.92	53.83	122	185	Average
11490	51.4	-22.6	74	53.72	38.59	12.92	53.83	122	185	Peak



<b>Test Mode :</b>	802.11a	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	149	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Vertical
<b>Remark :</b>	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
42.15	31.71	-8.29	40	51.84	11.1	0.76	31.99	-	-	Peak
66.45	32.24	-7.76	40	57.94	5.27	0.97	31.94	100	165	Peak
97.77	27.49	-16.01	43.5	48.62	9.65	1.15	31.93	-	-	Peak
510	24.91	-21.09	46	36.13	17.35	2.62	31.19	-	-	Peak
644.4	25.28	-20.72	46	34.73	18.62	2.93	31	-	-	Peak
673.1	26.33	-19.67	46	35.46	18.87	2.99	30.99	-	-	Peak
5743	91.43	-	-	82.53	34.7	9.1	34.9	100	24	Average
5743	102.27	-	-	93.37	34.7	9.1	34.9	100	24	Peak
11490	50.48	-23.52	74	53.61	37.78	12.92	53.83	100	0	Peak



<b>Test Mode :</b>	802.11a	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	157	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	5787 MHz is fundamental signal which can be ignored.		

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
5787	84.84	-	-	75.83	34.8	9.13	34.92	104	324	Average
5787	95.76	-	-	86.75	34.8	9.13	34.92	104	324	Peak
11571	40.11	-13.89	54	42.24	38.63	13	53.76	104	114	Average
11571	51.47	-22.53	74	53.6	38.63	13	53.76	104	114	Peak

<b>Test Mode :</b>	802.11a	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	157	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Vertical
<b>Remark :</b>	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
5787	90.53	-	-	81.58	34.74	9.13	34.92	109	14	Average
5787	101.31	-	-	92.36	34.74	9.13	34.92	109	14	Peak
11571	50.08	-23.92	74	52.98	37.86	13	53.76	100	0	Peak



<b>Test Mode :</b>	802.11a	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	165	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	5823 MHz is fundamental signal which can be ignored.		

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	85.63	-	-	76.44	34.87	9.25	34.93	102	282	Average
5823	96.47	-	-	87.28	34.87	9.25	34.93	102	282	Peak
11649	41.13	-12.87	54	43.1	38.66	13.09	53.72	135	201	Average
11649	52.24	-21.76	74	54.21	38.66	13.09	53.72	135	201	Peak

<b>Test Mode :</b>	802.11a	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	165	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Vertical
<b>Remark :</b>	5823 MHz is fundamental signal which can be ignored.		

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	92.82	-	-	83.73	34.77	9.25	34.93	100	351	Average
5823	103.53	-	-	94.44	34.77	9.25	34.93	100	351	Peak
11649	39.51	-14.49	54	42.23	37.91	13.09	53.72	107	174	Average
11649	51	-23	74	53.72	37.91	13.09	53.72	107	174	Peak



<b>Test Mode :</b>	802.11n HT20	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	149	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	5743 MHz is fundamental signal which can be ignored.		

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
66.45	24.46	-15.54	40	50.27	5.16	0.97	31.94	100	117	Peak
102.63	24.68	-18.82	43.5	44.79	10.61	1.19	31.91	-	-	Peak
201.99	21.85	-21.65	43.5	43.07	8.83	1.65	31.7	-	-	Peak
304.9	23.18	-22.82	46	39.58	13.24	2.02	31.66	-	-	Peak
415.5	23.14	-22.86	46	35.76	16.42	2.37	31.41	-	-	Peak
829.2	26.42	-19.58	46	33.7	20.25	3.32	30.85	-	-	Peak
5743	83.79	-	-	74.89	34.7	9.1	34.9	100	310	Average
5743	94.41	-	-	85.51	34.7	9.1	34.9	100	310	Peak
11499	40.37	-13.63	54	42.65	38.6	12.92	53.8	126	225	Average
11499	52.65	-21.35	74	54.93	38.6	12.92	53.8	126	225	Peak



<b>Test Mode :</b>	802.11n HT20	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	149	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Vertical
<b>Remark :</b>	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
42.15	31.6	-8.4	40	51.73	11.1	0.76	31.99	-	-	Peak
66.72	32.2	-7.8	40	57.9	5.27	0.97	31.94	100	28	Peak
97.77	27.68	-15.82	43.5	48.81	9.65	1.15	31.93	-	-	Peak
504.4	24.56	-21.44	46	35.92	17.21	2.6	31.17	-	-	Peak
673.1	25.02	-20.98	46	34.15	18.87	2.99	30.99	-	-	Peak
888.7	26.21	-19.79	46	32.7	20.7	3.46	30.65	-	-	Peak
5743	90.46	-	-	81.56	34.7	9.1	34.9	100	5	Average
5743	101	-	-	92.1	34.7	9.1	34.9	100	5	Peak
11499	50.44	-23.56	74	53.52	37.8	12.92	53.8	100	0	Peak



<b>Test Mode :</b>	802.11n HT20	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	157	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	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
5787	85.01	-	-	76	34.8	9.13	34.92	104	315	Average
5787	95.61	-	-	86.6	34.8	9.13	34.92	104	315	Peak
11571	50.89	-23.11	74	53.02	38.63	13	53.76	100	0	Peak

<b>Test Mode :</b>	802.11n HT20	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	157	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Vertical
<b>Remark :</b>	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
5783	89.45	-	-	80.51	34.73	9.13	34.92	100	18	Average
5783	100.35	-	-	91.41	34.73	9.13	34.92	100	18	Peak
11571	50.63	-23.37	74	53.53	37.86	13	53.76	100	0	Peak





<b>Test Mode :</b>	802.11n HT20	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	165	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	5823 MHz is fundamental signal which can be ignored.		

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	84.24	-	-	75.05	34.87	9.25	34.93	111	283	Average
5823	94.65	-	-	85.46	34.87	9.25	34.93	111	283	Peak
11649	40.78	-13.22	54	42.75	38.66	13.09	53.72	122	228	Average
11649	52.02	-21.98	74	53.99	38.66	13.09	53.72	122	228	Peak

<b>Test Mode :</b>	802.11n HT20	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	165	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Vertical
<b>Remark :</b>	5823 MHz is fundamental signal which can be ignored.		

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	91.07	-	-	81.98	34.77	9.25	34.93	100	353	Average
5823	101.68	-	-	92.59	34.77	9.25	34.93	100	353	Peak
11649	39.93	-14.07	54	42.65	37.91	13.09	53.72	143	341	Average
11649	51.16	-22.84	74	53.88	37.91	13.09	53.72	143	341	Peak



<b>Test Mode :</b>	802.11n HT40	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	151	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	5757 MHz is fundamental signal which can be ignored.		

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
66.45	23.57	-16.43	40	49.38	5.16	0.97	31.94	100	236	Peak
102.63	24.91	-18.59	43.5	45.02	10.61	1.19	31.91	-	-	Peak
133.68	25.98	-17.52	43.5	45.16	11.31	1.35	31.84	-	-	Peak
400.8	23.37	-22.63	46	36.66	15.88	2.31	31.48	-	-	Peak
745.9	25.28	-20.72	46	33.16	19.88	3.14	30.9	-	-	Peak
823.6	25.72	-20.28	46	33.06	20.23	3.31	30.88	-	-	Peak
5757	82.42	-	-	73.5	34.73	9.1	34.91	100	311	Average
5757	92.69	-	-	83.77	34.73	9.1	34.91	100	311	Peak
11511	40.12	-13.88	54	42.37	38.6	12.95	53.8	114	225	Average
11511	51.22	-22.78	74	53.47	38.6	12.95	53.8	114	225	Peak



<b>Test Mode :</b>	802.11n HT40	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	151	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Vertical
<b>Remark :</b>	1. 5757 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
42.15	31.43	-8.57	40	51.56	11.1	0.76	31.99	-	-	Peak
66.45	33.07	-6.93	40	58.77	5.27	0.97	31.94	100	134	Peak
93.72	30.63	-12.87	43.5	51.92	9.5	1.12	31.91	-	-	Peak
519.8	24.86	-21.14	46	36.03	17.4	2.64	31.21	-	-	Peak
673.1	25.79	-20.21	46	34.92	18.87	2.99	30.99	-	-	Peak
820.1	25.38	-20.62	46	32.72	20.25	3.3	30.89	-	-	Peak
5757	86.86	-	-	77.96	34.71	9.1	34.91	100	5	Average
5757	96.94	-	-	88.04	34.71	9.1	34.91	100	5	Peak
11511	50.55	-23.45	74	53.6	37.8	12.95	53.8	100	0	Peak



<b>Test Mode :</b>	802.11n HT40	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	159	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	5797 MHz is fundamental signal which can be ignored.		

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
5797	81.49	-	-	72.45	34.8	9.16	34.92	100	311	Average
5797	91.29	-	-	82.25	34.8	9.16	34.92	100	311	Peak
11589	40.04	-13.96	54	42.13	38.64	13.02	53.75	124	228	Average
11589	51.23	-22.77	74	53.32	38.64	13.02	53.75	124	228	Peak

<b>Test Mode :</b>	802.11n HT40	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	159	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Vertical
<b>Remark :</b>	5797 MHz is fundamental signal which can be ignored.		

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
5797	87.11	-	-	78.13	34.74	9.16	34.92	100	13	Average
5797	96.96	-	-	87.98	34.74	9.16	34.92	100	13	Peak
11589	50.37	-3.63	54	53.23	37.87	13.02	53.75	100	225	Average
11589	51.41	-22.59	74	54.27	37.87	13.02	53.75	100	225	Peak



<b>Test Mode :</b>	802.11ac VHT80	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	155	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	5777 MHz is fundamental signal which can be ignored.		

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
66.72	24.49	-15.51	40	50.3	5.16	0.97	31.94	100	18	Peak
103.17	24.87	-18.63	43.5	44.98	10.61	1.19	31.91	-	-	Peak
133.68	26.55	-16.95	43.5	45.73	11.31	1.35	31.84	-	-	Peak
414.1	23.09	-22.91	46	35.75	16.4	2.36	31.42	-	-	Peak
708.1	24.75	-21.25	46	33.51	19.15	3.07	30.98	-	-	Peak
894.3	25.32	-20.68	46	31.78	20.69	3.48	30.63	-	-	Peak
5777	78.87	-	-	69.88	34.77	9.13	34.91	100	310	Average
5777	88.5	-	-	79.51	34.77	9.13	34.91	100	310	Peak
11550	39.85	-14.15	54	42	38.62	13	53.77	125	214	Average
11550	51.55	-22.45	74	53.7	38.62	13	53.77	125	214	Peak



<b>Test Mode :</b>	802.11ac VHT80	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	155	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Vertical
<b>Remark :</b>	1. 5777 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
42.15	31.89	-8.11	40	52.02	11.1	0.76	31.99	-	-	Peak
66.45	32.96	-7.04	40	58.66	5.27	0.97	31.94	100	115	Peak
97.77	28	-15.5	43.5	49.13	9.65	1.15	31.93	-	-	Peak
412.7	23.38	-22.62	46	35.86	16.58	2.36	31.42	-	-	Peak
504.4	25.06	-20.94	46	36.42	17.21	2.6	31.17	-	-	Peak
673.1	25.87	-20.13	46	35	18.87	2.99	30.99	-	-	Peak
5777	83.64	-	-	74.69	34.73	9.13	34.91	100	5	Average
5777	94.13	-	-	85.18	34.73	9.13	34.91	100	5	Peak
11550	50.78	-23.22	74	53.71	37.84	13	53.77	100	0	Peak



<b>Test Mode :</b>	802.11a	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	144	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	5722 MHz is fundamental signal which can be ignored.		

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
5722	85.35	-	-	76.48	34.69	9.07	34.89	102	310	Average
5722	95.73	-	-	86.86	34.69	9.07	34.89	102	310	Peak
11439	40.48	-13.52	54	42.98	38.55	12.86	53.91	100	281	Average
11439	52.43	-21.57	74	54.93	38.55	12.86	53.91	100	281	Peak

<b>Test Mode :</b>	802.11a	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	144	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Vertical
<b>Remark :</b>	<ol style="list-style-type: none"> <li>5722 MHz is fundamental signal which can be ignored.</li> <li>Average measurement was not performed if peak level went lower than the average limit.</li> </ol>		

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
5722	90.56	-	-	81.69	34.69	9.07	34.89	100	7	Average
5722	101.09	-	-	92.22	34.69	9.07	34.89	100	7	Peak
11439	50.5	-23.5	74	53.83	37.72	12.86	53.91	100	0	Peak



<b>Test Mode :</b>	802.11n HT20	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	144	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	1. 5722 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
5722	83.72	-	-	74.85	34.69	9.07	34.89	100	310	Average
5722	94.63	-	-	85.76	34.69	9.07	34.89	100	310	Peak
11439	50.88	-23.12	74	53.38	38.55	12.86	53.91	100	0	Peak

<b>Test Mode :</b>	802.11n HT20	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	144	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Vertical
<b>Remark :</b>	1. 5722 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
5722	89.63	-	-	80.76	34.69	9.07	34.89	100	5	Average
5722	100.15	-	-	91.28	34.69	9.07	34.89	100	5	Peak
11439	50.84	-23.16	74	54.17	37.72	12.86	53.91	100	0	Peak





<b>Test Mode :</b>	802.11n HT40	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	142	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	5712 MHz is fundamental signal which can be ignored.		

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
5712	81.02	-	-	72.17	34.69	9.05	34.89	100	311	Average
5712	91.41	-	-	82.56	34.69	9.05	34.89	100	311	Peak
11421	40.01	-13.99	54	42.58	38.53	12.83	53.93	100	195	Average
11421	52.21	-21.79	74	54.78	38.53	12.83	53.93	100	195	Peak

<b>Test Mode :</b>	802.11n HT40	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	142	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Vertical
<b>Remark :</b>	1. 5712 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
5712	87.28	-	-	78.43	34.69	9.05	34.89	100	5	Average
5712	96.85	-	-	88	34.69	9.05	34.89	100	5	Peak
11421	50.59	-23.41	74	53.99	37.7	12.83	53.93	100	0	Peak



<b>Test Mode :</b>	802.11ac VHT20	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	144	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	5722 MHz is fundamental signal which can be ignored.		

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
5722	82.71	-	-	73.84	34.69	9.07	34.89	100	310	Average
5722	93.58	-	-	84.71	34.69	9.07	34.89	100	310	Peak
11439	39.78	-14.22	54	42.28	38.55	12.86	53.91	100	217	Average
11439	51.27	-22.73	74	53.77	38.55	12.86	53.91	100	217	Peak

<b>Test Mode :</b>	802.11ac VHT20	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	144	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Vertical
<b>Remark :</b>	<ol style="list-style-type: none"> <li>5722 MHz is fundamental signal which can be ignored.</li> <li>Average measurement was not performed if peak level went lower than the average limit.</li> </ol>		

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
5722	88.49	-	-	79.62	34.69	9.07	34.89	100	10	Average
5722	98.58	-	-	89.71	34.69	9.07	34.89	100	10	Peak
11439	50.67	-23.33	74	54	37.72	12.86	53.91	100	0	Peak



<b>Test Mode :</b>	802.11ac VHT40	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	142	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	5712 MHz is fundamental signal which can be ignored.		

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
5712	80.48	-	-	71.63	34.69	9.05	34.89	100	310	Average
5712	90.2	-	-	81.35	34.69	9.05	34.89	100	310	Peak
11421	40.6	-13.4	54	43.17	38.53	12.83	53.93	100	273	Average
11421	51.56	-22.44	74	54.13	38.53	12.83	53.93	100	273	Peak

<b>Test Mode :</b>	802.11ac VHT40	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	142	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Vertical
<b>Remark :</b>	1. 5712 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
5712	86.28	-	-	77.43	34.69	9.05	34.89	100	6	Average
5712	95.92	-	-	87.07	34.69	9.05	34.89	100	6	Peak
11421	50.76	-23.24	74	54.16	37.7	12.83	53.93	100	0	Peak



<b>Test Mode :</b>	802.11ac VHT80	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	138	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	5692 MHz is fundamental signal which can be ignored.		

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
5692	78.17	-	-	69.32	34.68	9.05	34.88	102	311	Average
5692	88.06	-	-	79.21	34.68	9.05	34.88	102	311	Peak
11379	40.59	-13.41	54	43.3	38.51	12.77	53.99	100	90	Average
11379	51.67	-22.33	74	54.38	38.51	12.77	53.99	100	90	Peak

<b>Test Mode :</b>	802.11ac VHT80	<b>Temperature :</b>	21~23°C
<b>Test Channel :</b>	138	<b>Relative Humidity :</b>	46~47%
<b>Test Engineer :</b>	Jet Lui	<b>Polarization :</b>	Vertical
<b>Remark :</b>	1. 5692 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
5692	83.9	-	-	75.05	34.68	9.05	34.88	100	32	Average
5692	93.6	-	-	84.75	34.68	9.05	34.88	100	32	Peak
11379	50.89	-23.11	74	54.45	37.66	12.77	53.99	100	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 (dB $\mu$ V)	
	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.

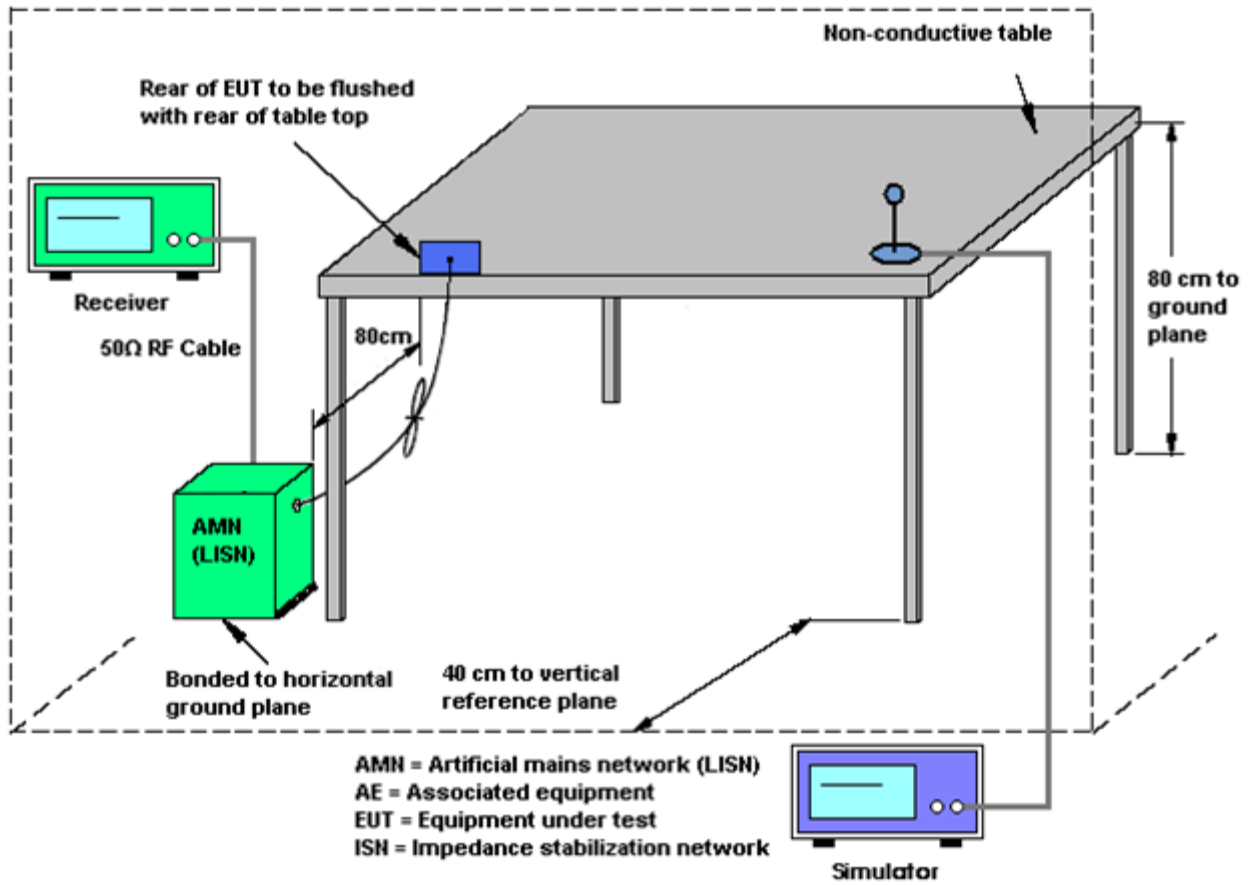
#### 3.6.2 Measuring Instruments

See list of measuring instruments of this test report.

#### 3.6.3 Test Procedures

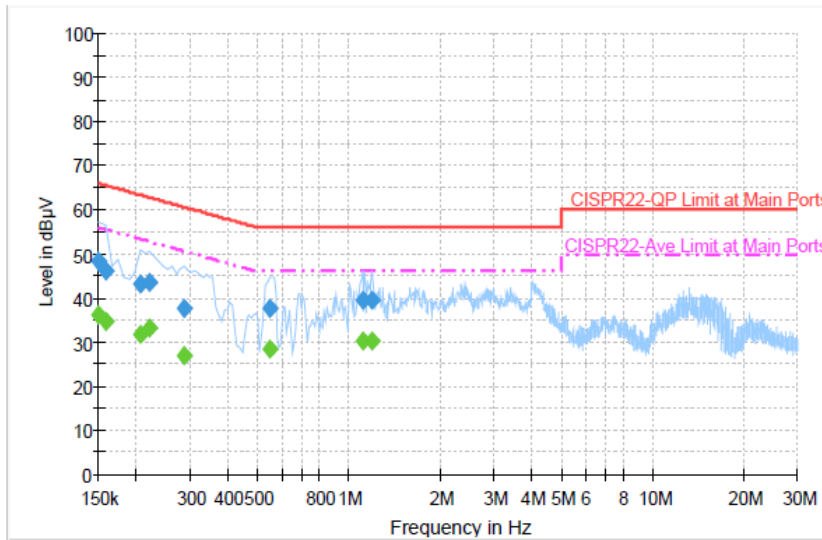
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.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

### 3.6.4 Test Setup



3.6.5 Test Result of AC Conducted Emission

Test Mode :	Mode 1	Temperature :	20~22°C
Test Engineer :	Slash Huang	Relative Humidity :	45~47%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	GSM850 Idle + Bluetooth Link + WLAN (5GHz) Link + MP3 + Earphone + USB Cable (Charging from Adapter)		



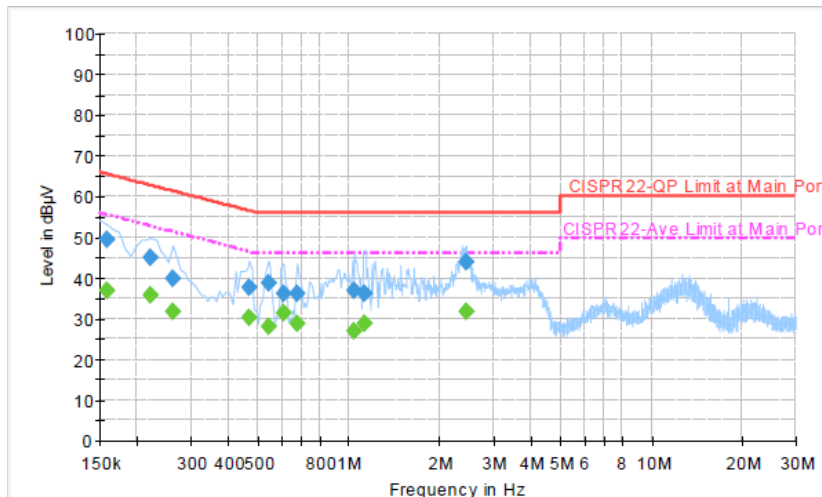
Final Result : QuasiPeak

Frequency (MHz)	QuasiPeak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	48.5	Off	L1	19.4	17.5	66.0
0.158000	46.2	Off	L1	19.3	19.4	65.6
0.206000	43.1	Off	L1	19.4	20.3	63.4
0.222000	43.7	Off	L1	19.4	19.0	62.7
0.286000	37.6	Off	L1	19.4	23.0	60.6
0.550000	37.7	Off	L1	19.4	18.3	56.0
1.110000	39.6	Off	L1	19.4	16.4	56.0
1.190000	39.4	Off	L1	19.5	16.6	56.0

Final Result : Average

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	36.3	Off	L1	19.4	19.7	56.0
0.158000	34.5	Off	L1	19.3	21.1	55.6
0.206000	31.9	Off	L1	19.4	21.5	53.4
0.222000	33.2	Off	L1	19.4	19.5	52.7
0.286000	27.0	Off	L1	19.4	23.6	50.6
0.550000	28.3	Off	L1	19.4	17.7	46.0
1.110000	30.3	Off	L1	19.4	15.7	46.0
1.190000	30.4	Off	L1	19.5	15.6	46.0

Test Mode :	Mode 1	Temperature :	20~22°C
Test Engineer :	Slash Huang	Relative Humidity :	45~47%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	GSM850 Idle + Bluetooth Link + WLAN (5GHz) Link + MP3 + Earphone + USB Cable (Charging from Adapter)		



**Final Result : QuasiPeak**

Frequency (MHz)	QuasiPeak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.158000	49.6	Off	N	19.3	16.0	65.6
0.222000	44.9	Off	N	19.4	17.8	62.7
0.262000	39.8	Off	N	19.4	21.6	61.4
0.470000	37.7	Off	N	19.4	18.8	56.5
0.542000	38.9	Off	N	19.4	17.1	56.0
0.606000	36.3	Off	N	19.4	19.7	56.0
0.678000	36.3	Off	N	19.5	19.7	56.0
1.046000	37.0	Off	N	19.5	19.0	56.0
1.126000	36.3	Off	N	19.5	19.7	56.0
2.438000	43.8	Off	N	19.7	12.2	56.0

**Final Result : Average**

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.158000	36.8	Off	N	19.3	18.8	55.6
0.222000	35.7	Off	N	19.4	17.0	52.7
0.262000	31.9	Off	N	19.4	19.5	51.4
0.470000	30.1	Off	N	19.4	16.4	46.5
0.542000	28.0	Off	N	19.4	18.0	46.0
0.606000	31.4	Off	N	19.4	14.6	46.0
0.678000	28.9	Off	N	19.5	17.1	46.0
1.046000	26.8	Off	N	19.5	19.2	46.0
1.126000	28.9	Off	N	19.5	17.1	46.0
2.438000	31.9	Off	N	19.7	14.1	46.0



## 3.7 Frequency Stability Measurement

### 3.7.1 Limit of Frequency Stability

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

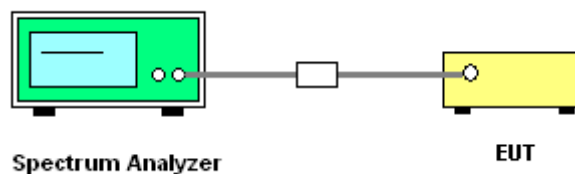
### 3.7.2 Measuring Instruments

See list of measuring instruments of this test report.

### 3.7.3 Test Procedures

1. To ensure emission at the band edge is maintained within the authorized band, those values shall be measured by radiation emissions at upper and lower frequency points, and finally compensated by frequency deviation as procedures below.
2. The EUT was operated at the maximum output power, and connected to the spectrum analyzer, which is set to maximum hold function and peak detector. The peak value of the power envelope was measured and noted. The upper and lower frequency points were respectively measured relatively 10dB lower than the measured peak value.
3. The frequency deviation was calculated by adding the upper frequency point and the lower frequency point divided by two. Those detailed values of frequency deviation are provided in table below.

### 3.7.4 Test Setup





3.7.5 Test Result of Frequency Stability

Test Band :	5GHz band 1	Temperature :	24~26°C
Test Engineer :	Coyote Lin	Relative Humidity :	55~58%

Mod.	Data Rate	N <sub>TX</sub>	Channel	Frequency (MHz)	Low Frequency (MHz)	High Frequency (MHz)	Mid Frequency (MHz)	Frequency Stability (ppm)
11a	6Mbps	1	36	5180	5171.70	5188.30	5180.00	0
11a	6Mbps	1	44	5220	5211.70	5228.25	5219.98	-4.79
11a	6Mbps	1	48	5240	5231.70	5248.30	5240.00	0
HT20	MCS0	1	36	5180	5171.10	5188.90	5180.00	0
HT20	MCS0	1	44	5220	5211.10	5228.95	5220.03	4.79
HT20	MCS0	1	48	5240	5231.05	5248.95	5240.00	0
HT40	MCS0	1	38	5190	5171.73	5208.36	5190.05	8.67
HT40	MCS0	1	46	5230	5211.82	5248.18	5230.00	0
VHT20	MCS0	1	36	5180	5171.10	5188.90	5180.00	0
VHT20	MCS0	1	44	5220	5211.05	5228.95	5220.00	0
VHT20	MCS0	1	48	5240	5231.10	5248.90	5240.00	0
VHT40	MCS0	1	38	5190	5171.82	5208.36	5190.09	17.34
VHT40	MCS0	1	46	5230	5211.82	5248.18	5230.00	0
VHT80	MCS0	1	42	5210	5171.72	5248.28	5210.00	0



<b>Test Band :</b>	5GHz band 2	<b>Temperature :</b>	24~26°C
<b>Test Engineer :</b>	Coyote Lin	<b>Relative Humidity :</b>	55~58%

Mod.	Data Rate	N <sub>TX</sub>	Channel	Freq. (MHz)	Low Frequency (MHz)	High Frequency (MHz)	Mid Frequency (MHz)	Frequency Stability (ppm)
11a	6Mbps	1	52	5260	5251.75	5268.25	5260.00	0
11a	6Mbps	1	60	5300	5291.70	5308.30	5300.00	0
11a	6Mbps	1	64	5320	5311.70	5328.25	5319.98	-4.70
HT20	MCS0	1	52	5260	5251.10	5268.95	5260.03	4.75
HT20	MCS0	1	60	5300	5291.05	5308.95	5300.00	0
HT20	MCS0	1	64	5320	5311.10	5328.90	5320.00	0
HT40	MCS0	1	54	5270	5251.82	5288.27	5270.05	8.54
HT40	MCS0	1	62	5310	5291.82	5328.18	5310.00	0
VHT20	MCS0	1	52	5260	5251.10	5268.90	5260.00	0
VHT20	MCS0	1	60	5300	5291.10	5308.90	5300.00	0
VHT20	MCS0	1	64	5320	5311.05	5328.95	5320.00	0
VHT40	MCS0	1	54	5270	5251.82	5288.18	5270.00	0
VHT40	MCS0	1	62	5310	5291.82	5328.18	5310.00	0
VHT80	MCS0	1	58	5290	5251.72	5328.28	5290.00	0



Test Band :	5GHz band 3	Temperature :	24~26°C
Test Engineer :	Coyote Lin	Relative Humidity :	55~58%

Mod.	Data Rate	N <sub>TX</sub>	Channel	Freq. (MHz)	Low Frequency (MHz)	High Frequency (MHz)	Mid Frequency (MHz)	Frequency Stability (ppm)
11a	6Mbps	1	100	5500	5491.75	5508.25	5500.00	0
11a	6Mbps	1	116	5580	5571.75	5588.25	5580.00	0
11a	6Mbps	1	140	5700	5691.70	5708.30	5700.00	0
11a	6Mbps	1	144	5720	5711.75	5728.30	5720.03	4.37
HT20	MCS0	1	100	5500	5491.15	5508.95	5500.05	9.09
HT20	MCS0	1	116	5580	5571.10	5588.95	5580.03	4.48
HT20	MCS0	1	140	5700	5691.10	5708.90	5700.00	0
HT20	MCS0	1	144	5720	5711.10	5728.90	5720.00	0
HT40	MCS0	1	102	5510	5491.82	5528.36	5510.09	16.33
HT40	MCS0	1	110	5550	5531.82	5568.27	5550.05	8.11
HT40	MCS0	1	134	5670	5651.82	5688.18	5670.00	0
HT40	MCS0	1	142	5710	5691.82	5728.18	5710.00	0
VHT20	MCS0	1	100	5500	5491.15	5508.95	5500.05	9.09
VHT20	MCS0	1	116	5580	5571.15	5588.85	5580.00	0
VHT20	MCS0	1	140	5700	5691.10	5708.90	5700.00	0
VHT20	MCS0	1	144	5720	5711.10	5728.95	5720.03	4.37
VHT40	MCS0	1	102	5510	5491.82	5528.36	5510.09	16.33
VHT40	MCS0	1	110	5550	5531.82	5568.27	5550.05	8.11
VHT40	MCS0	1	134	5670	5651.82	5688.36	5670.09	15.87
VHT40	MCS0	1	142	5710	5691.82	5728.18	5710.00	0
VHT80	MCS0	1	106	5530	5491.84	5568.28	5530.06	10.85
VHT80	MCS0	1	138	5690	5651.84	5728.25	5690.05	7.91



<b>Test Band :</b>	5GHz band 4	<b>Temperature :</b>	24~26°C
<b>Test Engineer :</b>	Coyote Lin	<b>Relative Humidity :</b>	55~58%

Mod.	Data Rate	N <sub>TX</sub>	Channel	Freq. (MHz)	Low Frequency (MHz)	High Frequency (MHz)	Mid Frequency (MHz)	Frequency Stability (ppm)
11a	6Mbps	1	149	5745	5753.25	5736.75	5745.00	0
11a	6Mbps	1	157	5785	5776.70	5793.30	5785.00	0
11a	6Mbps	1	165	5825	5816.75	5833.25	5825.00	0
HT20	MCS0	1	149	5745	5736.10	5753.95	5745.03	4.35
HT20	MCS0	1	157	5785	5776.10	5793.90	5785.00	0
HT20	MCS0	1	165	5825	5816.05	5833.95	5825.00	0
HT40	MCS0	1	151	5755	5736.82	5773.18	5755.00	0
HT40	MCS0	1	159	5795	5776.82	5813.18	5795.00	0
VHT20	MCS0	1	149	5745	5736.05	5753.95	5745.00	0
VHT20	MCS0	1	157	5785	5776.10	5793.90	5785.00	0
VHT20	MCS0	1	165	5825	5816.05	5833.95	5825.00	0
VHT40	MCS0	1	151	5755	5736.82	5773.18	5755.00	0
VHT40	MCS0	1	159	5795	5776.82	5813.18	5795.00	0
VHT80	MCS0	1	155	5775	5736.84	5813.28	5775.06	10.39



## **3.8 Automatically Discontinue Transmission**

### **3.8.1 Limit of Automatically Discontinue Transmission**

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization to describe how this requirement is met.

### **3.8.2 Measuring Instruments**

See list of measuring instruments of this test report.

### **3.8.3 Test Result of Automatically Discontinue Transmission**

During no any information transmission, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.



## **3.9 Antenna Requirements**

### **3.9.1 Standard Applicable**

According to FCC 47 CFR Section 15.407(a)(1)(2), if transmitting antenna directional gain is greater than 6 dBi, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### **3.9.2 Antenna Connected Construction**

Non-standard connector used.

### **3.9.3 Antenna Gain**

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

## 4 List of Measuring Equipments

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	Jul. 06, 2013~ Jul.17, 2013	Jun. 06, 2014	Conducted (TH02-HY)
Power Meter	Anritsu	ML2495A	1036004	300MHz~40GHz	Sep. 08, 2012	Jul. 06, 2013~ Jul.17, 2013	Sep. 07, 2013	Conducted (TH02-HY)
Power Sensor	Anritsu	MA2411B	1027253	300MHz~40GHz	Sep. 08, 2012	Jul. 06, 2013~ Jul.17, 2013	Sep. 07, 2013	Conducted (TH02-HY)
Spectrum Analyzer	R&S	FSP30	101352	9kHz~30GHz	Nov. 07, 2012	Jul. 08, 2013~ Jul.23, 2013	Nov. 06, 2013	Radiation (03CH06-HY)
Spectrum Analyzer	Agilent	E4408B	MY44211030	9kHz ~ 26.5GHz	Nov. 26, 2012	Jul. 08, 2013~ Jul.23, 2013	Nov. 25, 2013	Radiation (03CH06-HY)
EMI Test Receiver	R&S	ESVS10	834468/0003	20MHz ~ 1000MHz	May 06, 2013	Jul. 08, 2013~ Jul.23, 2013	May 05, 2014	Radiation (03CH06-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	860004/0001	9 kHz~30 MHz	Jul. 03, 2012	Jul. 08, 2013~ Jul.23, 2013	Jul. 03, 2014	Radiation (03CH06-HY)
Bilog Antenna	SCHAFFNER	CBL6112B	2885	30MHz ~ 2GHz	Oct. 06, 2012	Jul. 08, 2013~ Jul.23, 2013	Oct. 05, 2013	Radiation (03CH06-HY)
Double Ridge Horn Antenna	EMCO	3117	00066583	1GHz ~ 18GHz	Aug. 01, 2012	Jul. 08, 2013~ Jul.23, 2013	Jul. 31, 2013	Radiation (03CH06-HY)
Amplifier	Agilent	310N	186713	9kHz ~ 1GHz	Apr. 12, 2013	Jul. 08, 2013~ Jul.23, 2013	Apr. 11, 2014	Radiation (03CH06-HY)
Pre Amplifier	EMCI	EMC011830	980148	1GHz ~ 18GHz	Jun. 21, 2013	Jul. 08, 2013~ Jul.23, 2013	Jun. 20, 2014	Radiation (03CH06-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170251	15GHz ~ 40GHz	Sep. 28, 2012	Jul. 08, 2013~ Jul.23, 2013	Sep. 27, 2013	Radiation (03CH06-HY)
Preamplifier	Agilent	8449B	3008A01917	1GHz ~ 26.5GHz	Apr. 12, 2013	Jul. 08, 2013~ Jul.23, 2013	Apr. 11, 2014	Radiation (03CH06-HY)
Turn Table	INN-CO	DS2000	420/650/00	0 - 360 degree	N/A	Jul. 08, 2013~ Jul.23, 2013	N/A	Radiation (03CH06-HY)
Antenna Mast	MF	MF-7802	MF780208212	1 m ~ 4 m	N/A	Jul. 08, 2013~ Jul.23, 2013	N/A	Radiation (03CH06-HY)
EMI Test Receiver	Rohde & Schwarz	ESCS 30	100356	9kHz ~ 2.75GHz	Nov. 13, 2012	Jul. 18, 2013	Nov. 12, 2013	Conduction (CO05-HY)
Two-LISN (for auxiliary equipment)	Rohde & Schwarz	ENV216	100081	9kHz ~ 30MHz	Dec. 12, 2012	Jul. 18, 2013	Dec. 11, 2013	Conduction (CO05-HY)
Two-LISN	Rohde & Schwarz	ENV216	100080	9kHz ~ 30MHz	Dec. 06, 2012	Jul. 18, 2013	Dec. 05, 2013	Conduction (CO05-HY)
AC Power Source	APC	APC-1000W	N/A	N/A	N/A	Jul. 18, 2013	N/A	Conduction (CO05-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
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### Uncertainty of Radiated Emission Measurement (30MHz ~ 1000MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	2.54
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### Uncertainty of Radiated Emission Measurement (1GHz ~ 40GHz)

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