



Partial FCC Test Report

APPLICANT : Getac Technology Corporation
EQUIPMENT : Notebook PC
BRAND NAME : Getac
MODEL NAME : E100
FCC ID : QYLEA02
STANDARD : FCC Part 15 Subpart E
CLASSIFICATION : Unlicensed National Information Infrastructure (UNII)

This is a partial report which is only valid combined with the Integrated WLAN Module (Brand name: Intel / Model name: 622ANHMW, FCC ID: PD9622ANH) Report.

The product was received on May 03, 2010 and completely tested on May 30, 2010. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.4-2003 and shown 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: Roy Wu / Manager



SPORTON INTERNATIONAL INC.

No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.



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 Testing Site 6

 1.5 Applied Standards 6

 1.6 Ancillary Equipment List 7

2 TEST CONFIGURATION OF EQUIPMENT UNDER TEST 8

 2.1 Carrier Frequency Channel 8

 2.2 RF Power 9

 2.3 Test Mode 10

 2.4 Connection Diagram of Test System 12

 2.5 RF Utility 12

3 TEST RESULT 13

 3.1 Band Edges Measurement 13

 3.2 AC Conducted Emission Measurement 21

 3.3 Radiated Emission Measurement 25

 3.4 Antenna Requirements 79

4 LIST OF MEASURING EQUIPMENTS 80

5 UNCERTAINTY OF EVALUATION 81

APPENDIX A. PHOTOGRAPHS OF EUT

APPENDIX B. SETUP PHOTOGRAPHS



SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.1	15.407(b)	A9.3	Frequency Band Edges	$\leq -17, -27$ dBm (depend on band)&15.209(a)	Pass	-
3.2	15.207	Gen 7.2.2	AC Conducted Emission	15.207(a)	Pass	Under limit 17.5 dB at 0.278 MHz
3.3	15.407(b)	A9.3	Transmitter Radiated Emission	$\leq -17, -27$ dBm (depend on band)&15.209(a)	Pass	Under limit 0.81 dB at 5150.00 MHz
3.4	15.203 & 15.407(a)	A9.2	Antenna Requirement	N/A	Pass	-

1 General Description

1.1 Applicant

Getac Technology Corporation

5F., Building A, No. 209, Sec.1, Nangang Rd., Nangang Dist., Taipei City 11568, Taiwan, R.O.C.

1.2 Manufacturer

GeTAC Technology (Kunshan) Co., LTD.

No. 269, 2nd Road, Export Processing Zone, Changjiang South Road, Kunshan, Jiangsu, P.R.C.

1.3 Feature of Equipment Under Test

Product Feature & Specification	
Equipment	Notebook PC
Brand Name	Getac
Model Name	E100
FCC ID	QYLEA02
Tx/Rx Frequency Range	5150 MHz ~ 5250 MHz 5250 MHz ~ 5350 MHz 5470 MHz ~ 5725 MHz
Maximum Output Power to Antenna	<p><5150 MHz ~ 5250 MHz> 802.11a : 16.59 dBm / 45.60 mW 802.11n (BW 20MHz) : 16.72 dBm / 46.99 mW 802.11n (BW 40MHz) : 16.86 dBm / 48.53 mW</p> <p><5250 MHz ~ 5350 MHz> 802.11a : 16.69 dBm / 46.67 mW 802.11n (BW 20MHz) : 16.79 dBm / 47.75 mW 802.11n (BW 40MHz) : 16.72 dBm / 46.99 mW</p> <p><5470 MHz ~ 5725 MHz> 802.11a : 16.70 dBm / 46.77 mW 802.11n (BW 20MHz) : 16.69 dBm / 46.67 mW 802.11n (BW 40MHz) : 16.80 dBm / 47.86 mW</p>
Antenna Type	PIFA Antenna with gain 3.17 dBi
Type of Modulation	OFDM (BPSK / QPSK / 16QAM / 64QAM)
EUT Stage	Identical Prototype

Remark:

1. For other wireless features of this EUT, test report will be issued separately.
2. This test report recorded only product characteristics and test results of Unlicensed National Information Infrastructure (UNII).
3. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Testing Site

Test Site	SPORTON INTERNATIONAL INC.		
Test Site Location	No. 52, Hwa Ya 1 st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C. TEL: +886-3-3273456 / FAX: +886-3-3284978		
Test Site No.	Sporton Site No.		FCC/IC Registration No.
	CO05-HY	03CH07-HY	TW1022/4086B-1

1.5 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 Public Notice DA 02-2138, (Measurement Guidelines of UNII)
- ♦ ANSI C63.4-2003
- ♦ IC RSS-210 Issued 7

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 (DoC), recorded in a separate test report.



1.6 Ancillary Equipment List

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.	GPS Station	T&E	GS-50	N/A	N/A	Unshielded, 1.8 m
3.	WLAN AP	D-Link	DIR-628	KA2DIR628A2	N/A	Unshielded, 1.8 m
4.	Notebook	DELL	Vostro 1510	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
5.	Bluetooth Earphone	Nokia	BH-102	PYAHS-107W	N/A	N/A
6.	iPod	Apple	A1285	FCC DoC	Shielded, 1.0 m	N/A
7.	Modem	ACEEX	DM1414	IFAXDM1414	Shielded, 1.15 m	N/A

2 Test Configuration of Equipment Under Test

2.1 Carrier Frequency Channel

802.11a Carrier Frequency Channel							
Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
36	5180	40	5200	44	5220	48	5240
52	5260	56	5280	60	5300	64	5320
100	5500	104	5520	108	5540	112	5560
116	5580	120	5600	124	5620	128	5640
132	5660	136	5680	140	5700	-	-

802.11n (BW 20MHz) Carrier Frequency Channel							
Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
36	5180	40	5200	44	5220	48	5240
52	5260	56	5280	60	5300	64	5320
100	5500	104	5520	108	5540	112	5560
116	5580	120	5600	124	5620	128	5640
132	5660	136	5680	140	5700	-	-

802.11n (BW 40MHz) Carrier Frequency Channel							
Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
38	5190	46	5230	54	5270	62	5310
102	5510	110	5550	118	5590	126	5630
134	5670	-	-	-	-	-	-

2.2 RF Power

Preliminary RF power output tests were performed in different data rate and recorded the in the following table:

Channel	Frequency (MHz)	802.11a RF Power (dBm)	
		Data Rate: 6Mbps	
		Chain A	Chain B
CH 36	5180 MHz	16.31	16.53
CH 40	5200 MHz	16.59	16.58
CH 48	5240 MHz	16.32	16.51
CH 52	5260 MHz	16.45	16.50
CH 56	5280 MHz	16.54	16.42
CH 64	5320 MHz	16.69	16.23
CH 100	5500 MHz	16.18	16.60
CH 120	5600 MHz	16.70	16.61
CH 140	5700 MHz	16.30	16.52

Channel	Frequency (MHz)	802.11n (BW 20MHz) RF Power (dBm)		
		Data Rate: HT0		Data Rate: HT0
		SISO		2Tx
		Chain A	Chain B	Chain A+B
CH 36	5180 MHz	16.51	16.44	16.45
CH 40	5200 MHz	16.72	16.54	16.42
CH 48	5240 MHz	16.68	16.55	16.71
CH 52	5260 MHz	16.55	16.44	16.79
CH 56	5280 MHz	16.26	16.51	16.45
CH 64	5320 MHz	16.51	16.51	16.36
CH 100	5500 MHz	16.41	16.53	16.69
CH 120	5600 MHz	16.31	16.67	16.46
CH 140	5700 MHz	16.55	16.26	16.51

Channel	Frequency (MHz)	802.11n (BW 40MHz) RF Power (dBm)		
		Data Rate: HT0		Data Rate: HT0
		SISO		2Tx
		Chain A	Chain B	Chain A+B
CH 38	5190 MHz	16.84	16.63	16.36
CH 46	5230 MHz	16.56	16.86	16.47
CH 54	5270 MHz	16.50	16.55	16.65
CH 62	5310 MHz	16.72	12.73	16.43
CH 102	5510 MHz	16.64	16.80	16.58
CH 118	5590 MHz	16.44	16.35	16.59
CH 134	5670 MHz	16.40	16.63	16.54

Remark:

1. The EUT is programmed to transmit signals continuously for all testing.
2. SISO stands for single input and single output. It means that only one chain transmits signals at a time.
3. 2Tx is one type of MIMO, which means that two chains transmit signals at the same time.



2.3 Test Mode

The EUT has been associated with peripherals pursuant to ANSI C63.4-2003 and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction (150 kHz to 30 MHz), radiation (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

Pre-scanned tests, X, Y, Z in three orthogonal panels, were conducted to determine the final configuration from all possible combinations, tablet modes.

The following table is showing the total pre-scanned test modes, and the worst modes are recorded in this report only.

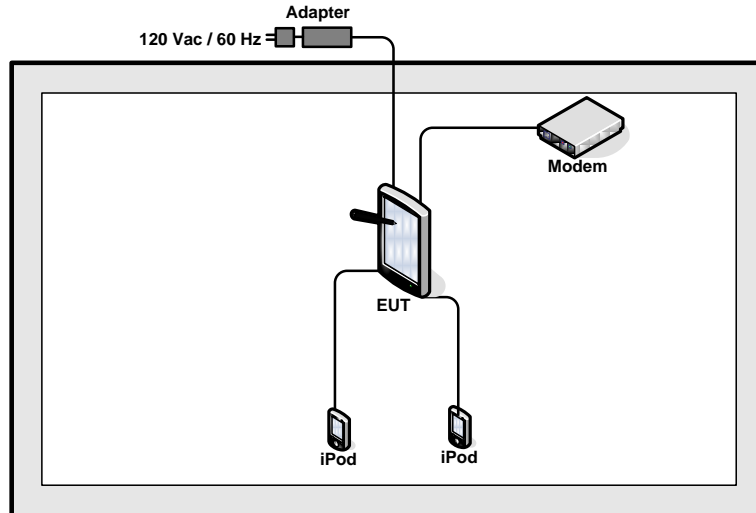
Test Cases	
Test Item	802.11a/n (Modulation : OFDM)
Radiated TCs	■ Mode 1: 802.11a_CH36_5180 MHz
	■ Mode 2: 802.11a_CH44_5220 MHz
	■ Mode 3: 802.11a_CH48_5240 MHz
	■ Mode 4: 802.11a_CH52_5260 MHz
	■ Mode 5: 802.11a_CH60_5300 MHz
	■ Mode 6: 802.11a_CH64_5320 MHz
	■ Mode 7: 802.11a_CH100_5500 MHz
	■ Mode 8: 802.11a_CH120_5600 MHz
	■ Mode 9: 802.11a_CH140_5700 MHz
	■ Mode 10: 802.11n_CH36_5180 MHz (BW 20M)
	■ Mode 11: 802.11n_CH44_5220 MHz (BW 20M)
	■ Mode 12: 802.11n_CH48_5240 MHz (BW 20M)
	■ Mode 13: 802.11n_CH52_5260 MHz (BW 20M)
	■ Mode 14: 802.11n_CH60_5300 MHz (BW 20M)
	■ Mode 15: 802.11n_CH64_5320 MHz (BW 20M)
	■ Mode 16: 802.11n_CH100_5500 MHz (BW 20M)
	■ Mode 17: 802.11n_CH120_5600 MHz (BW 20M)
	■ Mode 18: 802.11n_CH140_5700 MHz (BW 20M)
	■ Mode 19: 802.11n_CH38_5190 MHz (BW 40M)
	■ Mode 20: 802.11n_CH46_5230 MHz (BW 40M)
	■ Mode 21: 802.11n_CH54_5270 MHz (BW 40M)
	■ Mode 22: 802.11n_CH62_5310 MHz (BW 40M)
	■ Mode 23: 802.11n_CH102_5510 MHz (BW 40M)
	■ Mode 24: 802.11n_CH118_5590 MHz (BW 40M)
	■ Mode 25: 802.11n_CH134_5670 MHz (BW 40M)



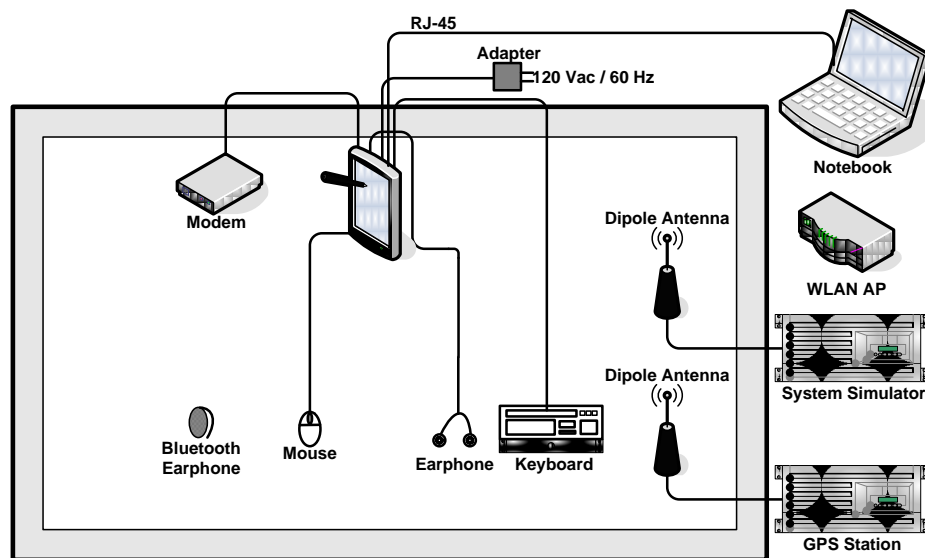
AC Conducted Emission	WLAN Link + Bluetooth Link + TC + Adapter
Remark: <ol style="list-style-type: none">1. TC stands for Test Configuration, and consists of modem, mouse, earphone, keyboard, RJ-45 and GPS Rx.2. Mode 1~18 of radiated emission only verify bandedge.3. Only the radiated emission and conducted emission tests were performed in this report and the conducted test cases can be referred to the Bluetooth module (Brand name: Intel / Model name: 622ANHMW, FCC ID: PD9622ANH, AEGIS Report Number: INTEL-090602F) report.	

2.4 Connection Diagram of Test System

<WLAN Tx Mode>



<EUT with TC Mode>



2.5 RF Utility

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



3 Test Result

3.1 Band Edges Measurement

3.1.1 Limit of Band Edges

- (1) For transmitters operating in the 5.15–5.25 GHz band: all emissions outside of the 5.15–5.35 GHz band shall not exceed an EIRP of –27 dBm/MHz. For transmitters operating in the 5.25–5.35 GHz band: all emissions outside of the 5.15–5.35 GHz band shall not exceed an EIRP of –27 dBm/MHz. Devices operating in the 5.25–5.35 GHz band that generate emissions in the 5.15–5.25 GHz band must meet all applicable technical requirements for operation in the 5.15–5.25 GHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of –27 dBm/MHz in the 5.15–5.25 GHz band. For transmitters operating in the 5.47–5.725 GHz band: all emissions outside of the 5.47–5.725 GHz band shall not exceed an EIRP of -27 dBm/MHz.
- (2) The provisions of Section 15.205 Restricted bands of operation of this part apply to intentional radiators operating under this section.

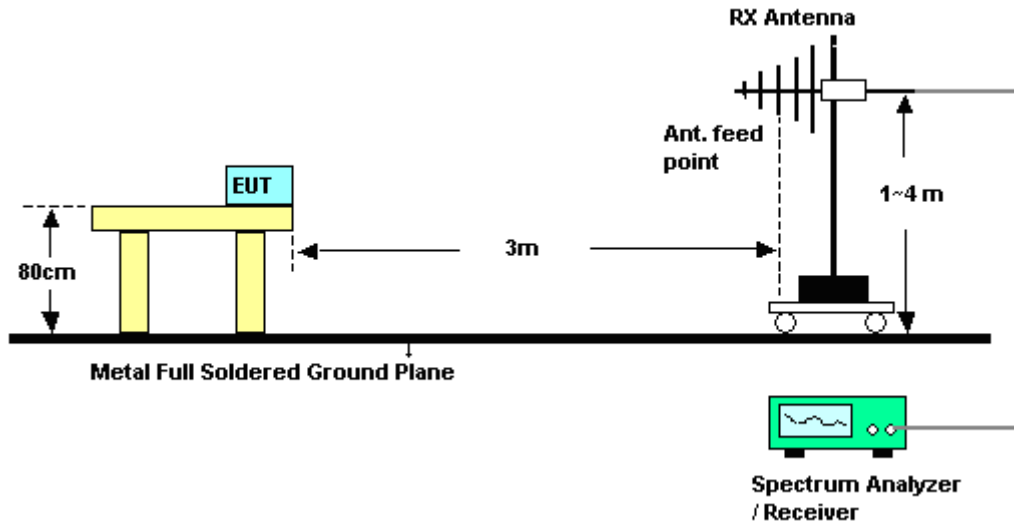
3.1.2 Measuring Instruments

See list of measuring instruments of this test report.

3.1.3 Test Procedures

1. Set both RBW and VBW of spectrum analyzer to 1MHz with convenient frequency span including 1MHz bandwidth from band edge.
2. The band edges was measured and recorded.

3.1.4 Test Setup





3.1.5 Test Result of Radiated Band Edges

Test Mode :	Mode 1	Temperature :	24~25°C
Test Band :	802.11a	Relative Humidity :	43~44%
Test Channel :	36	Test Engineer :	Kay Wu

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5150.00	61.99	-12.01	74.00	53.90	34.49	8.07	34.47	181	170	Peak
5150.00	44.91	-9.09	54.00	36.82	34.49	8.07	34.47	181	170	Average

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5150.00	54.88	-19.12	74.00	46.79	34.49	8.07	34.47	192	176	Peak
5150.00	40.53	-13.47	54.00	32.44	34.49	8.07	34.47	192	176	Average

Test Mode :	Mode 6	Temperature :	24~25°C
Test Band :	802.11a	Relative Humidity :	43~44%
Test Channel :	64	Test Engineer :	Kay Wu

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5350.00	56.46	-17.54	74.00	48.05	34.61	8.23	34.43	173	170	Peak
5350.00	42.33	-11.67	54.00	33.92	34.61	8.23	34.43	173	170	Average

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5350.00	52.10	-21.90	74.00	43.69	34.61	8.23	34.43	179	341	Peak
5350.00	39.38	-14.62	54.00	30.97	34.61	8.23	34.43	179	341	Average



Test Mode :	Mode 7	Temperature :	24~25°C
Test Band :	802.11a	Relative Humidity :	43~44%
Test Channel :	100	Test Engineer :	Kay Wu

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5470.00	53.45	-34.85	88.30	44.86	34.68	8.32	34.41	169	183	Peak
5470.00	39.47	-28.83	68.30	30.88	34.68	8.32	34.41	169	183	Average

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5470.00	50.62	-37.68	88.30	42.03	34.68	8.32	34.41	100	174	Peak
5470.00	38.39	-29.91	68.30	29.80	34.68	8.32	34.41	100	174	Average

Test Mode :	Mode 9	Temperature :	24~25°C
Test Band :	802.11a	Relative Humidity :	43~44%
Test Channel :	140	Test Engineer :	Kay Wu

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5725.00	57.46	-30.84	88.30	48.54	35.01	8.40	34.49	161	183	Peak
5725.00	41.58	-26.72	68.30	32.66	35.01	8.40	34.49	161	183	Average

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5725.00	52.31	-35.99	88.30	43.39	35.01	8.40	34.49	106	343	Peak
5725.00	39.49	-28.81	68.30	30.57	35.01	8.40	34.49	106	343	Average



Test Mode :	Mode 10	Temperature :	24~25°C
Test Band :	802.11n (BW 20MHz)	Relative Humidity :	43~44%
Test Channel :	36	Test Engineer :	Kay Wu

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5150.00	60.63	-13.37	74.00	52.54	34.49	8.07	34.47	100	309	Peak
5150.00	46.18	-7.82	54.00	38.09	34.49	8.07	34.47	100	309	Average

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5150.00	58.29	-15.71	74.00	50.20	34.49	8.07	34.47	103	239	Peak
5150.00	43.48	-10.52	54.00	35.39	34.49	8.07	34.47	103	239	Average

Test Mode :	Mode 15	Temperature :	24~25°C
Test Band :	802.11n (BW 20MHz)	Relative Humidity :	43~44%
Test Channel :	64	Test Engineer :	Kay Wu

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5350.00	55.83	-18.17	74.00	47.42	34.61	8.23	34.43	124	306	Peak
5350.00	42.93	-11.07	54.00	34.52	34.61	8.23	34.43	124	306	Average

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5350.00	52.74	-21.26	74.00	44.33	34.61	8.23	34.43	100	238	Peak
5350.00	40.59	-13.41	54.00	32.18	34.61	8.23	34.43	100	238	Average



Test Mode :	Mode 16	Temperature :	24~25°C
Test Band :	802.11n (BW 20MHz)	Relative Humidity :	43~44%
Test Channel :	100	Test Engineer :	Kay Wu

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5470.00	67.63	-20.67	88.30	59.04	34.68	8.32	34.41	100	235	Peak
5470.00	50.09	-18.21	68.30	41.50	34.68	8.32	34.41	100	235	Average

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5470.00	65.91	-22.39	88.30	57.32	34.68	8.32	34.41	100	235	Peak
5470.00	45.04	-23.26	68.30	36.45	34.68	8.32	34.41	100	235	Average

Test Mode :	Mode 18	Temperature :	24~25°C
Test Band :	802.11n (BW 20MHz)	Relative Humidity :	43~44%
Test Channel :	140	Test Engineer :	Kay Wu

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5725.00	85.12	-3.18	88.30	76.20	35.01	8.40	34.49	100	318	Peak
5725.00	59.38	-8.92	68.30	50.46	35.01	8.40	34.49	100	318	Average

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5725.00	81.61	-6.69	88.30	72.69	35.01	8.40	34.49	130	112	Peak
5725.00	59.38	-8.92	68.30	50.46	35.01	8.40	34.49	130	112	Average



Test Mode :	Mode 19	Temperature :	24~25°C
Test Band :	802.11n (BW 40MHz)	Relative Humidity :	43~44%
Test Channel :	38	Test Engineer :	Kay Wu

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5150.00	65.99	-8.01	74.00	57.90	34.49	8.07	34.47	177	177	Peak
5150.00	53.19	-0.81	54.00	45.10	34.49	8.07	34.47	177	177	Average

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5150.00	59.28	-14.72	74.00	51.19	34.49	8.07	34.47	155	340	Peak
5150.00	46.63	-7.37	54.00	38.54	34.49	8.07	34.47	155	340	Average

Test Mode :	Mode 22	Temperature :	24~25°C
Test Band :	802.11n (BW 40MHz)	Relative Humidity :	43~44%
Test Channel :	62	Test Engineer :	Kay Wu

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5350.00	64.55	-9.45	74.00	56.14	34.61	8.23	34.43	138	305	Peak
5350.00	50.98	-3.02	54.00	42.57	34.61	8.23	34.43	138	305	Average

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5350.00	61.83	-12.17	74.00	53.42	34.61	8.23	34.43	102	181	Peak
5350.00	48.35	-5.65	54.00	39.94	34.61	8.23	34.43	102	181	Average



Test Mode :	Mode 23	Temperature :	24~25°C
Test Band :	802.11n (BW 40MHz)	Relative Humidity :	43~44%
Test Channel :	102	Test Engineer :	Kay Wu

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5470.00	77.32	-10.98	88.30	68.73	34.68	8.32	34.41	101	323	Peak
5470.00	58.53	-9.77	68.30	49.94	34.68	8.32	34.41	101	323	Average

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5470.00	69.45	-18.85	88.30	60.86	34.68	8.32	34.41	112	0	Peak
5470.00	52.42	-15.88	68.30	43.83	34.68	8.32	34.41	112	0	Average

Test Mode :	Mode 25	Temperature :	24~25°C
Test Band :	802.11n (BW 40MHz)	Relative Humidity :	43~44%
Test Channel :	134	Test Engineer :	Kay Wu

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5725.00	68.26	-20.04	88.30	59.34	35.01	8.40	34.49	100	319	Peak
5725.00	49.60	-18.70	68.30	40.68	35.01	8.40	34.49	100	319	Average

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5725.00	60.70	-27.60	88.30	51.78	35.01	8.40	34.49	127	69	Peak
5725.00	45.01	-23.29	68.30	36.09	35.01	8.40	34.49	127	69	Average

3.2 AC Conducted Emission Measurement

3.2.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of emission (MHz)	Conducted limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

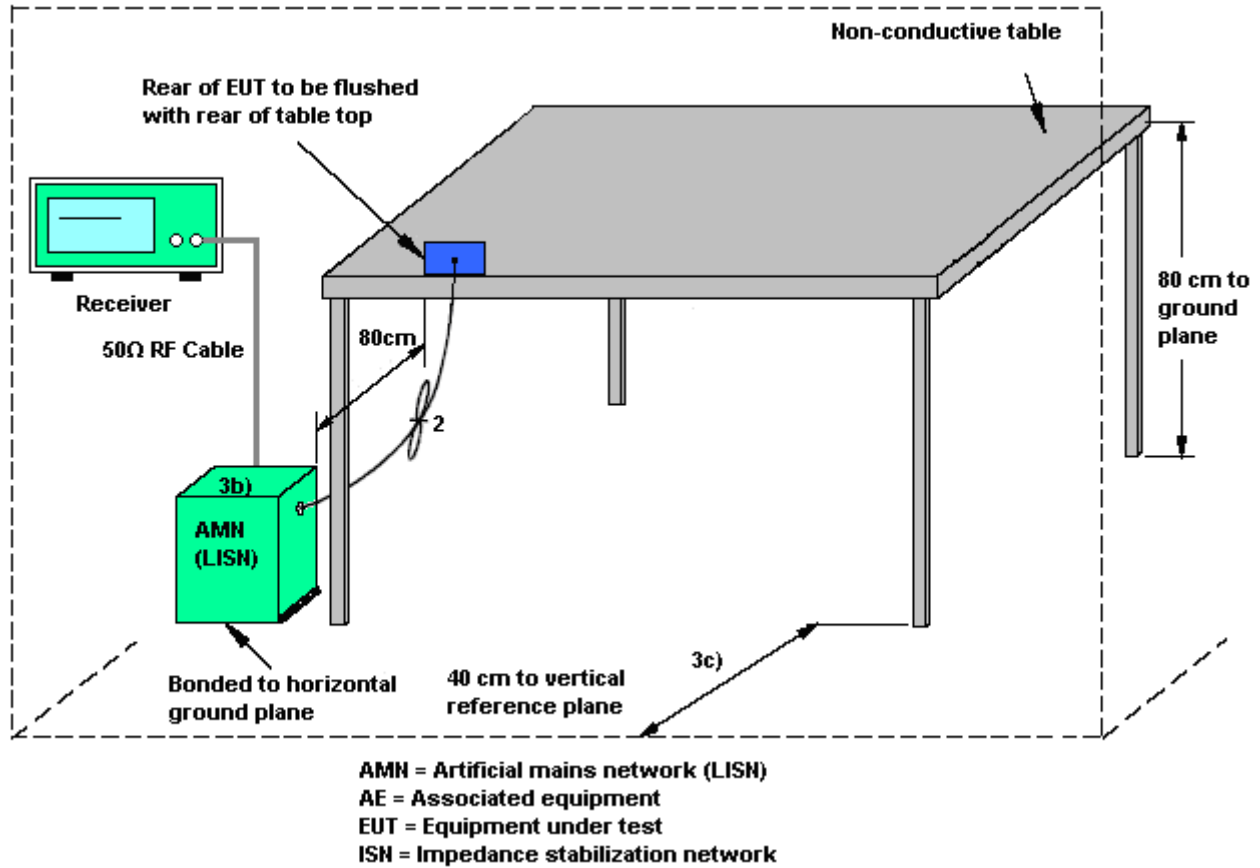
3.2.2 Measuring Instruments

See list of measuring instruments of this test report.

3.2.3 Test Procedures

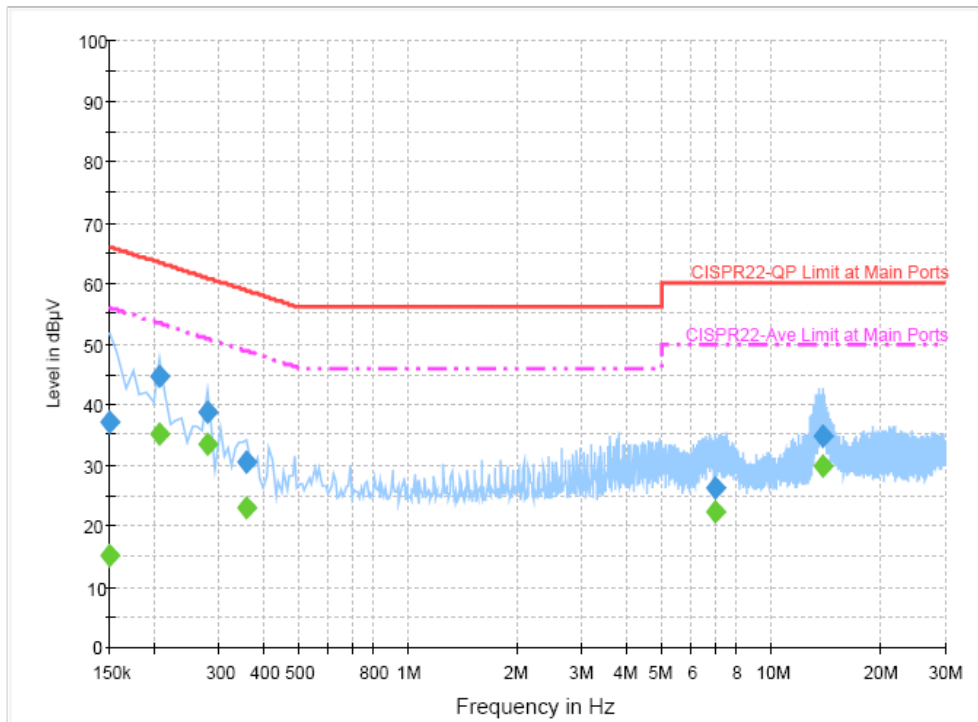
1. Please follow the guidelines in ANSI C63.4-2003.
2. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
3. Connect EUT to the power mains through a line impedance stabilization network (LISN).
4. All the support units are connecting to the other LISN.
5. The LISN provides 50 ohm coupling impedance for the measuring instrument.
6. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
7. Both sides of AC line were checked for maximum conducted interference.
8. The frequency range from 150 kHz to 30 MHz was searched.
9. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

3.2.4 Test Setup



3.2.5 Test Result of AC Conducted Emission

Test Mode :	Mode 1	Temperature :	20~22°C
Test Engineer :	Novic Jiang	Relative Humidity :	40~42%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	WLAN Link + Bluetooth Link + TC + Adapter		
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



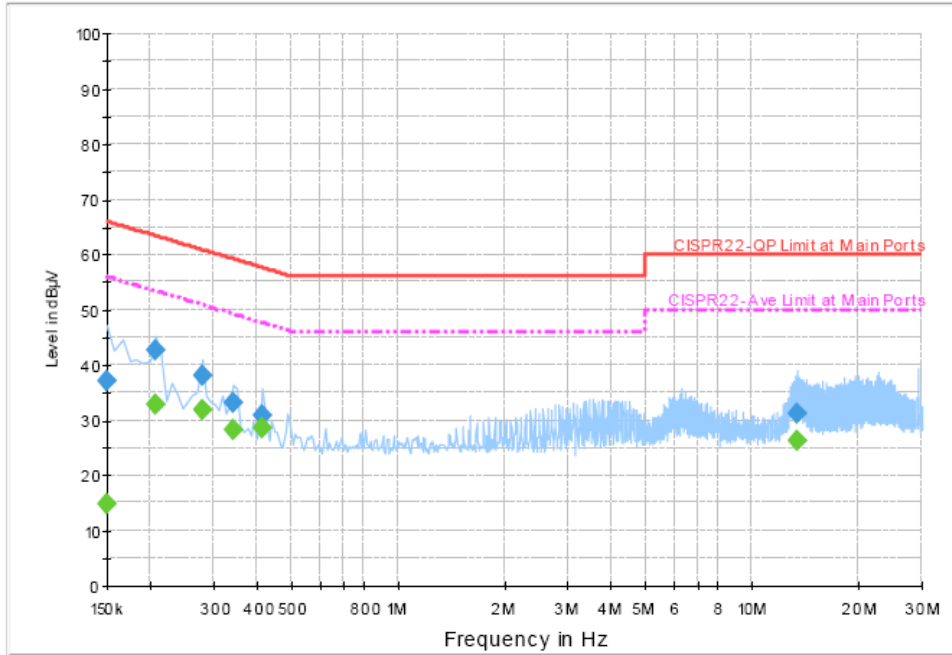
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	36.9	Off	L1	19.5	29.1	66.0
0.206000	44.5	Off	L1	19.6	18.9	63.4
0.278000	38.6	Off	L1	19.5	22.3	60.9
0.358000	30.6	Off	L1	19.5	28.2	58.8
6.990000	26.3	Off	L1	19.6	33.7	60.0
13.766000	34.7	Off	L1	19.6	25.3	60.0

Final Result 2

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	15.2	Off	L1	19.5	40.8	56.0
0.206000	35.2	Off	L1	19.6	18.2	53.4
0.278000	33.4	Off	L1	19.5	17.5	50.9
0.358000	22.9	Off	L1	19.5	25.9	48.8
6.990000	22.2	Off	L1	19.6	27.8	50.0
13.766000	29.9	Off	L1	19.6	20.1	50.0

Test Mode :	Mode 1	Temperature :	20~22°C
Test Engineer :	Novic Jiang	Relative Humidity :	40~42%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	WLAN Link + Bluetooth Link + TC + Adapter		
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	37.0	Off	N	19.5	29.0	66.0
0.206000	42.5	Off	N	19.5	20.9	63.4
0.278000	38.0	Off	N	19.5	22.9	60.9
0.342000	33.0	Off	N	19.4	26.2	59.2
0.414000	30.9	Off	N	19.4	26.7	57.6
13.334000	31.2	Off	N	19.6	28.8	60.0

Final Result 2

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	14.9	Off	N	19.5	41.1	56.0
0.206000	32.8	Off	N	19.5	20.6	53.4
0.278000	31.9	Off	N	19.5	19.0	50.9
0.342000	28.1	Off	N	19.4	21.1	49.2
0.414000	28.5	Off	N	19.4	19.1	47.6
13.334000	26.2	Off	N	19.6	23.8	50.0



3.3 Radiated Emission Measurement

3.3.1 Limit of Radiated Emission

Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in § 15.209.

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

- (1) For transmitters operating in the 5.15–5.25 GHz band: all emissions outside of the 5.15–5.35 GHz band shall not exceed an EIRP of –27 dBm/MHz.
- (2) For transmitters operating in the 5.25–5.35 GHz band: all emissions outside of the 5.15–5.35 GHz band shall not exceed an EIRP of –27 dBm/MHz. Devices operating in the 5.25–5.35 GHz band that generate emissions in the 5.15–5.25 GHz band must meet all applicable technical requirements for operation in the 5.15–5.25 GHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of –27 dBm/MHz in the 5.15–5.25 GHz band.
- (3) For transmitters operating in the 5.47–5.725 GHz band: all emissions outside of the 5.47–5.725 GHz band shall not exceed an EIRP of -27 dBm/MHz.
- (4) The provisions of Section 15.205 Restricted bands of operation of this part apply to intentional radiators operating under this section.

3.3.2 Measuring Instruments

See list of measuring instruments of this test report.

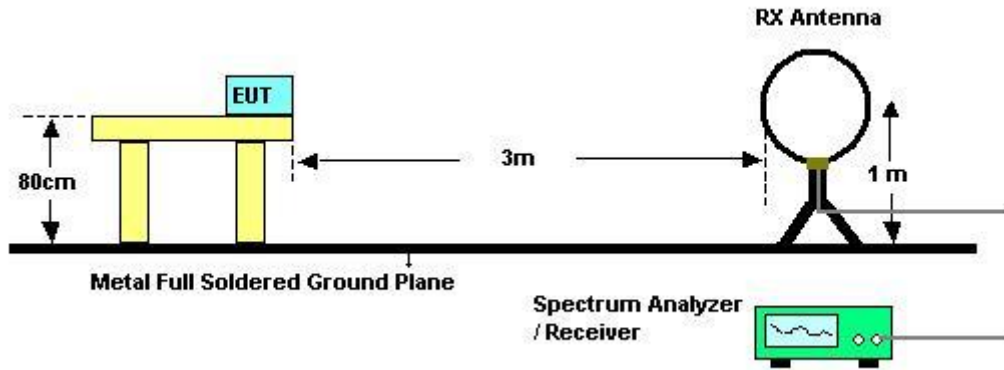


3.3.3 Test Procedures

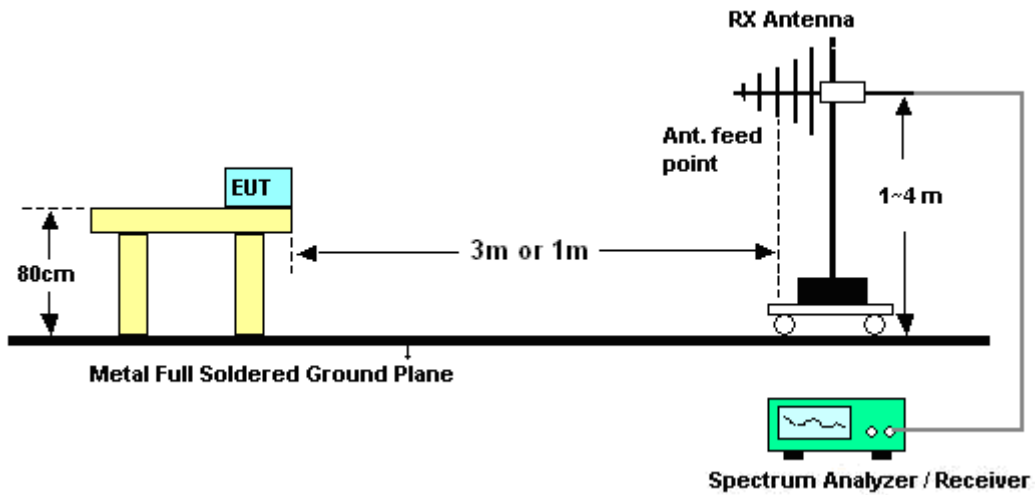
1. The testing follows the guidelines in FCC Public Notice DA 02-2138, (Measurement Guidelines of UNII)
2. The EUT was placed on a rotatable table top 0.8 meter above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest radiation.
5. 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.
6. 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.
7. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function and specified bandwidth with Maximum Hold Mode.
8. For testing below 1GHz, If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the quasi-peak method and reported.
9. 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 testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

3.3.4 Test Setup

For radiated emissions below 30MHz



For radiated emissions above 30MHz





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

Temperature	24~25°C	Humidity	43~44%
Test Engineer	Kay Wu		

Freq. (MHz)	Level (dBuV)	Over Limit (dB)	Limit Line (dBuV)	Remark
-	-	-	-	See Note

Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor = $40 \log(\text{specific distance} / \text{test distance})$ (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor.



3.3.6 Test Result of Radiated Emission (30MHz ~ 25GHz)

Test Mode :	Mode 1	Temperature :	24~25°C
Test Channel :	36	Relative Humidity :	43~44%
Test Engineer :	Kay Wu	Polarization :	Horizontal
Remark :	5180 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5150.00	44.91	-9.09	54.00	36.82	34.49	8.07	34.47	181	170	Average
5150.00	61.99	-12.01	74.00	53.90	34.49	8.07	34.47	181	170	Peak
5180.00	102.18	-	-	94.03	34.51	8.10	34.46	181	170	Peak
5180.00	92.40	-	-	84.25	34.51	8.10	34.46	181	170	Average
5350.00	39.06	-14.94	54.00	30.65	34.61	8.23	34.43	181	170	Average
5350.00	50.72	-23.28	74.00	42.31	34.61	8.23	34.43	181	170	Peak



Test Mode :	Mode 1	Temperature :	24~25°C
Test Channel :	36	Relative Humidity :	43~44%
Test Engineer :	Kay Wu	Polarization :	Vertical
Remark :	5180 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5150.00	40.53	-13.47	54.00	32.44	34.49	8.07	34.47	192	176	Average
5150.00	54.88	-19.12	74.00	46.79	34.49	8.07	34.47	192	176	Peak
5180.00	95.63	-	-	87.48	34.51	8.10	34.46	192	176	Peak
5180.00	85.83	-	-	77.68	34.51	8.10	34.46	192	176	Average
5350.00	38.58	-15.42	54.00	30.17	34.61	8.23	34.43	192	176	Average
5350.00	49.94	-24.06	74.00	41.53	34.61	8.23	34.43	192	176	Peak



Test Mode :	Mode 2	Temperature :	24~25°C
Test Channel :	44	Relative Humidity :	43~44%
Test Engineer :	Kay Wu	Polarization :	Horizontal
Remark :	5220 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5150.00	38.28	-15.72	54.00	30.19	34.49	8.07	34.47	179	172	Average
5150.00	49.37	-24.63	74.00	41.28	34.49	8.07	34.47	179	172	Peak
5220.00	101.96	-	-	93.77	34.53	8.12	34.46	179	172	Peak
5220.00	92.16	-	-	83.97	34.53	8.12	34.46	179	172	Average
5350.00	39.16	-14.84	54.00	30.75	34.61	8.23	34.43	179	172	Average
5350.00	51.39	-22.61	74.00	42.98	34.61	8.23	34.43	179	172	Peak



Test Mode :	Mode 2	Temperature :	24~25°C
Test Channel :	44	Relative Humidity :	43~44%
Test Engineer :	Kay Wu	Polarization :	Vertical
Remark :	5220 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5150.00	38.13	-15.87	54.00	30.04	34.49	8.07	34.47	122	166	Average
5150.00	49.64	-24.36	74.00	41.55	34.49	8.07	34.47	122	166	Peak
5220.00	94.22	-	-	86.03	34.53	8.12	34.46	122	166	Peak
5220.00	84.97	-	-	76.78	34.53	8.12	34.46	122	166	Average
5350.00	50.29	-23.71	74.00	41.88	34.61	8.23	34.43	122	166	Peak
5350.00	38.57	-15.43	54.00	30.16	34.61	8.23	34.43	122	166	Average



Test Mode :	Mode 3	Temperature :	24~25°C
Test Channel :	48	Relative Humidity :	43~44%
Test Engineer :	Kay Wu	Polarization :	Horizontal
Remark :	5240 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5150.00	38.12	-15.88	54.00	30.03	34.49	8.07	34.47	178	172	Average
5150.00	49.35	-24.65	74.00	41.26	34.49	8.07	34.47	178	172	Peak
5240.00	100.98	-	-	92.75	34.54	8.14	34.45	178	172	Peak
5240.00	91.26	-	-	83.03	34.54	8.14	34.45	178	172	Average
5350.00	38.92	-15.08	54.00	30.51	34.61	8.23	34.43	178	172	Average
5350.00	51.42	-22.58	74.00	43.01	34.61	8.23	34.43	178	172	Peak



Test Mode :	Mode 3	Temperature :	24~25°C
Test Channel :	48	Relative Humidity :	43~44%
Test Engineer :	Kay Wu	Polarization :	Vertical
Remark :	5240 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5150.00	37.98	-16.02	54.00	29.89	34.49	8.07	34.47	106	187	Average
5150.00	49.15	-24.85	74.00	41.06	34.49	8.07	34.47	106	187	Peak
5240.00	93.92	-	-	85.67	34.55	8.15	34.45	106	187	Peak
5240.00	84.49	-	-	76.26	34.54	8.14	34.45	106	187	Average
5350.00	38.41	-15.59	54.00	30.00	34.61	8.23	34.43	106	187	Average
5350.00	49.82	-24.18	74.00	41.41	34.61	8.23	34.43	106	187	Peak



Test Mode :	Mode 4	Temperature :	24~25°C
Test Channel :	52	Relative Humidity :	43~44%
Test Engineer :	Kay Wu	Polarization :	Horizontal
Remark :	5260 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5150.00	38.07	-15.93	54.00	29.98	34.49	8.07	34.47	176	168	Average
5150.00	49.47	-24.53	74.00	41.38	34.49	8.07	34.47	176	168	Peak
5260.00	101.48	-	-	93.21	34.56	8.16	34.45	176	168	Peak
5260.00	91.72	-	-	83.45	34.56	8.16	34.45	176	168	Average
5350.00	38.76	-15.24	54.00	30.35	34.61	8.23	34.43	176	168	Average
5350.00	50.46	-23.54	74.00	42.05	34.61	8.23	34.43	176	168	Peak



Test Mode :	Mode 4	Temperature :	24~25°C
Test Channel :	52	Relative Humidity :	43~44%
Test Engineer :	Kay Wu	Polarization :	Vertical
Remark :	5260 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5150.00	37.91	-16.09	54.00	29.82	34.49	8.07	34.47	192	341	Average
5150.00	49.35	-24.65	74.00	41.26	34.49	8.07	34.47	192	341	Peak
5260.00	93.84	-	-	85.57	34.56	8.16	34.45	192	341	Peak
5260.00	84.27	-	-	76.00	34.56	8.16	34.45	192	341	Average
5350.00	38.38	-15.62	54.00	29.97	34.61	8.23	34.43	192	341	Average
5350.00	49.59	-24.41	74.00	41.18	34.61	8.23	34.43	192	341	Peak



Test Mode :	Mode 5	Temperature :	24~25°C
Test Channel :	60	Relative Humidity :	43~44%
Test Engineer :	Kay Wu	Polarization :	Horizontal
Remark :	5300 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5150.00	38.03	-15.97	54.00	29.94	34.49	8.07	34.47	175	177	Average
5150.00	49.30	-24.70	74.00	41.21	34.49	8.07	34.47	175	177	Peak
5300.00	103.95	-	-	95.62	34.58	8.19	34.44	175	177	Peak
5300.00	93.91	-	-	85.58	34.58	8.19	34.44	175	177	Average
5350.00	38.75	-15.25	54.00	30.34	34.61	8.23	34.43	175	177	Average
5350.00	49.72	-24.28	74.00	41.31	34.61	8.23	34.43	175	177	Peak



Test Mode :	Mode 5	Temperature :	24~25°C
Test Channel :	60	Relative Humidity :	43~44%
Test Engineer :	Kay Wu	Polarization :	Vertical
Remark :	5300 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5150.00	38.11	-15.89	54.00	30.02	34.49	8.07	34.47	164	348	Average
5150.00	48.94	-25.06	74.00	40.85	34.49	8.07	34.47	164	348	Peak
5300.00	96.17	-	-	87.84	34.58	8.19	34.44	164	348	Peak
5300.00	86.55	-	-	78.22	34.58	8.19	34.44	164	348	Average
5350.00	38.57	-15.43	54.00	30.16	34.61	8.23	34.43	164	348	Average
5350.00	49.81	-24.19	74.00	41.40	34.61	8.23	34.43	164	348	Peak



Test Mode :	Mode 6	Temperature :	24~25°C
Test Channel :	64	Relative Humidity :	43~44%
Test Engineer :	Kay Wu	Polarization :	Horizontal
Remark :	5320 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5150.00	38.01	-15.99	54.00	29.92	34.49	8.07	34.47	173	170	Average
5150.00	48.92	-25.08	74.00	40.83	34.49	8.07	34.47	173	170	Peak
5320.00	104.26	-	-	95.91	34.59	8.20	34.44	173	170	Peak
5320.00	94.65	-	-	86.30	34.59	8.20	34.44	173	170	Average
5350.00	42.33	-11.67	54.00	33.92	34.61	8.23	34.43	173	170	Average
5350.00	56.46	-17.54	74.00	48.05	34.61	8.23	34.43	173	170	Peak



Test Mode :	Mode 6	Temperature :	24~25°C
Test Channel :	64	Relative Humidity :	43~44%
Test Engineer :	Kay Wu	Polarization :	Vertical
Remark :	5320 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5150.00	37.86	-16.14	54.00	29.77	34.49	8.07	34.47	179	341	Average
5150.00	49.73	-24.27	74.00	41.64	34.49	8.07	34.47	179	341	Peak
5320.00	97.84	-	-	89.49	34.59	8.20	34.44	179	341	Peak
5320.00	88.12	-	-	79.77	34.59	8.20	34.44	179	341	Average
5350.00	39.38	-14.62	54.00	30.97	34.61	8.23	34.43	179	341	Average
5350.00	52.10	-21.90	74.00	43.69	34.61	8.23	34.43	179	341	Peak



Test Mode :	Mode 7	Temperature :	24~25°C
Test Channel :	100	Relative Humidity :	43~44%
Test Engineer :	Kay Wu	Polarization :	Horizontal
Remark :	1. 5500 MHz is Fundamental Signals which can be ignored. 2. 5470 MHz and 5725 MHz are not within a restricted band.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5470.00	39.47	-28.83	68.30	30.88	34.68	8.32	34.41	169	183	Average
5470.00	53.45	-34.85	88.30	44.86	34.68	8.32	34.41	169	183	Peak
5500.00	97.83	-	-	89.18	34.70	8.35	34.40	169	183	Peak
5500.00	88.10	-	-	79.45	34.70	8.35	34.40	169	183	Average
5725.00	38.64	-29.66	68.30	29.72	35.01	8.40	34.49	169	183	Average
5725.00	49.70	-38.60	88.30	40.78	35.01	8.40	34.49	169	183	Peak



Test Mode :	Mode 7	Temperature :	24~25°C
Test Channel :	100	Relative Humidity :	43~44%
Test Engineer :	Kay Wu	Polarization :	Vertical
Remark :	1. 5500 MHz is Fundamental Signals which can be ignored. 2. 5470 MHz and 5725 MHz are not within a restricted band.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5470.00	38.39	-29.91	68.30	29.80	34.68	8.32	34.41	100	174	Average
5470.00	50.62	-37.68	88.30	42.03	34.68	8.32	34.41	100	174	Peak
5500.00	94.68	-	-	86.04	34.70	8.35	34.41	100	174	Peak
5500.00	84.76	-	-	76.11	34.70	8.35	34.40	100	174	Average
5725.00	38.20	-30.10	68.30	29.28	35.01	8.40	34.49	100	174	Average
5725.00	50.07	-38.23	88.30	41.15	35.01	8.40	34.49	100	174	Peak



Test Mode :	Mode 8	Temperature :	24~25°C
Test Channel :	120	Relative Humidity :	43~44%
Test Engineer :	Kay Wu	Polarization :	Horizontal
Remark :	1. 5600 MHz is Fundamental Signals which can be ignored. 2. 5470 MHz and 5725 MHz are not within a restricted band.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5470.00	37.81	-30.49	68.30	29.22	34.68	8.32	34.41	163	188	Average
5470.00	48.27	-40.03	88.30	39.68	34.68	8.32	34.41	163	188	Peak
5600.00	102.72	-	-	93.97	34.82	8.37	34.44	163	188	Peak
5600.00	92.79	-	-	84.02	34.84	8.37	34.44	163	188	Average
5725.00	38.25	-30.05	68.30	29.33	35.01	8.40	34.49	163	188	Average
5725.00	49.40	-38.90	88.30	40.48	35.01	8.40	34.49	163	188	Peak



Test Mode :	Mode 8	Temperature :	24~25°C
Test Channel :	120	Relative Humidity :	43~44%
Test Engineer :	Kay Wu	Polarization :	Vertical
Remark :	1. 5600 MHz is Fundamental Signals which can be ignored. 2. 5470 MHz and 5725 MHz are not within a restricted band.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5470.00	37.63	-30.67	68.30	29.04	34.68	8.32	34.41	176	180	Average
5470.00	48.23	-40.07	88.30	39.64	34.68	8.32	34.41	176	180	Peak
5600.00	99.43	-	-	90.68	34.82	8.37	34.44	176	180	Peak
5600.00	89.77	-	-	81.00	34.84	8.37	34.44	176	180	Average
5725.00	38.20	-30.10	68.30	29.28	35.01	8.40	34.49	176	180	Average
5725.00	49.37	-38.93	88.30	40.45	35.01	8.40	34.49	176	180	Peak



Test Mode :	Mode 9	Temperature :	24~25°C
Test Channel :	140	Relative Humidity :	43~44%
Test Engineer :	Kay Wu	Polarization :	Horizontal
Remark :	1. 5700 MHz is Fundamental Signals which can be ignored. 2. 5470 MHz and 5725 MHz are not within a restricted band.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5470.00	37.74	-30.56	68.30	29.15	34.68	8.32	34.41	161	183	Average
5470.00	48.45	-39.85	88.30	39.86	34.68	8.32	34.41	161	183	Peak
5700.00	99.45	-	-	90.56	34.97	8.40	34.48	161	183	Peak
5700.00	89.91	-	-	81.02	34.97	8.40	34.48	161	183	Average
5725.00	41.58	-26.72	68.30	32.66	35.01	8.40	34.49	161	183	Average
5725.00	57.46	-30.84	88.30	48.54	35.01	8.40	34.49	161	183	Peak



Test Mode :	Mode 9	Temperature :	24~25°C
Test Channel :	140	Relative Humidity :	43~44%
Test Engineer :	Kay Wu	Polarization :	Vertical
Remark :	1. 5700 MHz is Fundamental Signals which can be ignored. 2. 5470 MHz and 5725 MHz are not within a restricted band.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5470.00	37.65	-30.65	68.30	29.06	34.68	8.32	34.41	106	343	Average
5470.00	48.45	-39.85	88.30	39.86	34.68	8.32	34.41	106	343	Peak
5700.00	95.19	-	-	86.30	34.97	8.40	34.48	106	343	Peak
5700.00	85.72	-	-	76.83	34.97	8.40	34.48	106	343	Average
5725.00	39.49	-28.81	68.30	30.57	35.01	8.40	34.49	106	343	Average
5725.00	52.31	-35.99	88.30	43.39	35.01	8.40	34.49	106	343	Peak



Test Mode :	Mode 10	Temperature :	24~25°C
Test Channel :	36	Relative Humidity :	43~44%
Test Engineer :	Kay Wu	Polarization :	Horizontal
Remark :	5180 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5150.00	46.18	-7.82	54.00	38.09	34.49	8.07	34.47	100	309	Average
5150.00	60.63	-13.37	74.00	52.54	34.49	8.07	34.47	100	309	Peak
5180.00	106.61	-	-	98.46	34.51	8.10	34.46	100	309	Peak
5180.00	94.37	-	-	86.22	34.51	8.10	34.46	100	309	Average
5350.00	38.39	-15.61	54.00	29.98	34.61	8.23	34.43	100	309	Average
5350.00	49.78	-24.22	74.00	41.37	34.61	8.23	34.43	100	309	Peak



Test Mode :	Mode 10	Temperature :	24~25°C
Test Channel :	36	Relative Humidity :	43~44%
Test Engineer :	Kay Wu	Polarization :	Vertical
Remark :	5180 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5150.00	43.48	-10.52	54.00	35.39	34.49	8.07	34.47	103	239	Average
5150.00	58.29	-15.71	74.00	50.20	34.49	8.07	34.47	103	239	Peak
5180.00	102.79	-	-	94.64	34.51	8.10	34.46	103	239	Peak
5180.00	90.89	-	-	82.74	34.51	8.10	34.46	103	239	Average
5350.00	38.28	-15.72	54.00	29.87	34.61	8.23	34.43	103	239	Average
5350.00	49.79	-24.21	74.00	41.38	34.61	8.23	34.43	103	239	Peak



Test Mode :	Mode 11	Temperature :	24~25°C
Test Channel :	44	Relative Humidity :	43~44%
Test Engineer :	Kay Wu	Polarization :	Horizontal
Remark :	5220 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5150.00	38.11	-15.89	54.00	30.02	34.49	8.07	34.47	139	308	Average
5150.00	48.82	-25.18	74.00	40.73	34.49	8.07	34.47	139	308	Peak
5220.00	106.66	-	-	98.47	34.53	8.12	34.46	139	308	Peak
5220.00	95.03	-	-	86.84	34.53	8.12	34.46	139	308	Average
5350.00	38.49	-15.51	54.00	30.08	34.61	8.23	34.43	139	308	Average
5350.00	50.27	-23.73	74.00	41.86	34.61	8.23	34.43	139	308	Peak



Test Mode :	Mode 11	Temperature :	24~25°C
Test Channel :	44	Relative Humidity :	43~44%
Test Engineer :	Kay Wu	Polarization :	Vertical
Remark :	5220 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5150.00	38.25	-15.75	54.00	30.16	34.49	8.07	34.47	100	240	Average
5150.00	49.16	-24.84	74.00	41.07	34.49	8.07	34.47	100	240	Peak
5220.00	101.54	-	-	93.35	34.53	8.12	34.46	100	240	Peak
5220.00	90.17	-	-	81.98	34.53	8.12	34.46	100	240	Average
5350.00	38.65	-15.35	54.00	30.24	34.61	8.23	34.43	100	240	Average
5350.00	49.99	-24.01	74.00	41.58	34.61	8.23	34.43	100	240	Peak



Test Mode :	Mode 12	Temperature :	24~25°C
Test Channel :	48	Relative Humidity :	43~44%
Test Engineer :	Kay Wu	Polarization :	Horizontal
Remark :	5240 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5150.00	37.97	-16.03	54.00	29.88	34.49	8.07	34.47	142	307	Average
5150.00	49.48	-24.52	74.00	41.39	34.49	8.07	34.47	142	307	Peak
5240.00	106.49	-	-	98.26	34.54	8.14	34.45	142	307	Peak
5240.00	95.08	-	-	86.85	34.54	8.14	34.45	142	307	Average
5350.00	38.39	-15.61	54.00	29.98	34.61	8.23	34.43	142	307	Average
5350.00	49.37	-24.63	74.00	40.96	34.61	8.23	34.43	142	307	Peak



Test Mode :	Mode 12	Temperature :	24~25°C
Test Channel :	48	Relative Humidity :	43~44%
Test Engineer :	Kay Wu	Polarization :	Vertical
Remark :	5240 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5150.00	37.83	-16.17	54.00	29.74	34.49	8.07	34.47	101	237	Average
5150.00	49.56	-24.44	74.00	41.47	34.49	8.07	34.47	101	237	Peak
5240.00	102.80	-	-	94.55	34.55	8.15	34.45	101	237	Peak
5240.00	91.65	-	-	83.42	34.54	8.14	34.45	101	237	Average
5350.00	38.33	-15.67	54.00	29.92	34.61	8.23	34.43	101	237	Average
5350.00	49.31	-24.69	74.00	40.90	34.61	8.23	34.43	101	237	Peak



Test Mode :	Mode 13	Temperature :	24~25°C
Test Channel :	52	Relative Humidity :	43~44%
Test Engineer :	Kay Wu	Polarization :	Horizontal
Remark :	5260 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5150.00	38.01	-15.99	54.00	29.92	34.49	8.07	34.47	139	307	Average
5150.00	49.34	-24.66	74.00	41.25	34.49	8.07	34.47	139	307	Peak
5260.00	107.44	-	-	99.19	34.55	8.15	34.45	139	307	Peak
5260.00	94.77	-	-	86.50	34.56	8.16	34.45	139	307	Average
5350.00	38.45	-15.55	54.00	30.04	34.61	8.23	34.43	139	307	Average
5350.00	50.74	-23.26	74.00	42.33	34.61	8.23	34.43	139	307	Peak



Test Mode :	Mode 13	Temperature :	24~25°C
Test Channel :	52	Relative Humidity :	43~44%
Test Engineer :	Kay Wu	Polarization :	Vertical
Remark :	5260 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5150.00	37.82	-16.18	54.00	29.73	34.49	8.07	34.47	100	239	Average
5150.00	49.21	-24.79	74.00	41.12	34.49	8.07	34.47	100	239	Peak
5260.00	101.92	-	-	93.67	34.55	8.15	34.45	100	239	Peak
5260.00	90.15	-	-	81.88	34.56	8.16	34.45	100	239	Average
5350.00	38.31	-15.69	54.00	29.90	34.61	8.23	34.43	100	239	Average
5350.00	49.81	-24.19	74.00	41.40	34.61	8.23	34.43	100	239	Peak



Test Mode :	Mode 14	Temperature :	24~25°C
Test Channel :	60	Relative Humidity :	43~44%
Test Engineer :	Kay Wu	Polarization :	Horizontal
Remark :	5300 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5150.00	38.01	-15.99	54.00	29.92	34.49	8.07	34.47	128	306	Average
5150.00	49.43	-24.57	74.00	41.34	34.49	8.07	34.47	128	306	Peak
5300.00	105.24	-	-	96.91	34.58	8.19	34.44	128	306	Peak
5300.00	93.49	-	-	85.16	34.58	8.19	34.44	128	306	Average
5350.00	38.55	-15.45	54.00	30.14	34.61	8.23	34.43	128	306	Average
5350.00	51.04	-22.96	74.00	42.63	34.61	8.23	34.43	128	306	Peak



Test Mode :	Mode 14	Temperature :	24~25°C
Test Channel :	60	Relative Humidity :	43~44%
Test Engineer :	Kay Wu	Polarization :	Vertical
Remark :	5300 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5150.00	37.84	-16.16	54.00	29.75	34.49	8.07	34.47	100	237	Average
5150.00	49.35	-24.65	74.00	41.26	34.49	8.07	34.47	100	237	Peak
5300.00	100.65	-	-	92.34	34.57	8.18	34.44	100	237	Peak
5300.00	88.85	-	-	80.52	34.58	8.19	34.44	100	237	Average
5350.00	38.40	-15.60	54.00	29.99	34.61	8.23	34.43	100	237	Average
5350.00	49.56	-24.44	74.00	41.15	34.61	8.23	34.43	100	237	Peak



Test Mode :	Mode 15	Temperature :	24~25°C
Test Channel :	64	Relative Humidity :	43~44%
Test Engineer :	Kay Wu	Polarization :	Horizontal
Remark :	5320 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5150.00	37.95	-16.05	54.00	29.86	34.49	8.07	34.47	124	306	Average
5150.00	49.98	-24.02	74.00	41.89	34.49	8.07	34.47	124	306	Peak
5320.00	106.04	-	-	97.69	34.59	8.20	34.44	124	306	Peak
5320.00	93.29	-	-	84.94	34.59	8.20	34.44	124	306	Average
5350.00	42.93	-11.07	54.00	34.52	34.61	8.23	34.43	124	306	Average
5350.00	55.83	-18.17	74.00	47.42	34.61	8.23	34.43	124	306	Peak



Test Mode :	Mode 15	Temperature :	24~25°C
Test Channel :	64	Relative Humidity :	43~44%
Test Engineer :	Kay Wu	Polarization :	Vertical
Remark :	5320 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5150.00	37.85	-16.15	54.00	29.76	34.49	8.07	34.47	100	238	Average
5150.00	48.45	-25.55	74.00	40.36	34.49	8.07	34.47	100	238	Peak
5320.00	101.01	-	-	92.66	34.59	8.20	34.44	100	238	Peak
5320.00	89.56	-	-	81.21	34.59	8.20	34.44	100	238	Average
5350.00	40.59	-13.41	54.00	32.18	34.61	8.23	34.43	100	238	Average
5350.00	52.74	-21.26	74.00	44.33	34.61	8.23	34.43	100	238	Peak



Test Mode :	Mode 16	Temperature :	24~25°C
Test Channel :	100	Relative Humidity :	43~44%
Test Engineer :	Kay Wu	Polarization :	Horizontal
Remark :	1. 5500 MHz is Fundamental Signals which can be ignored. 2. 5470 MHz and 5725 MHz are not within a restricted band.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5460.00	60.91	-13.09	74.00	52.34	34.67	8.31	34.41	100	235	Peak
5460.00	43.37	-10.63	54.00	34.80	34.67	8.31	34.41	100	235	Average
5470.00	67.63	-20.67	88.30	59.04	34.68	8.32	34.41	100	235	Peak
5470.00	50.09	-18.21	68.30	41.50	34.68	8.32	34.41	100	235	Average
5500.00	106.73	-	-	98.10	34.69	8.34	34.40	100	235	Peak
5500.00	97.05	-	-	88.40	34.70	8.35	34.40	100	235	Average
5725.00	51.56	-36.74	88.30	42.64	35.01	8.40	34.49	100	235	Peak
5725.00	39.02	-29.28	68.30	30.10	35.01	8.40	34.49	100	235	Average



Test Mode :	Mode 16	Temperature :	24~25°C
Test Channel :	100	Relative Humidity :	43~44%
Test Engineer :	Kay Wu	Polarization :	Vertical
Remark :	1. 5500 MHz is Fundamental Signals which can be ignored. 2. 5470 MHz and 5725 MHz are not within a restricted band.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5460.00	57.71	-16.29	74.00	49.14	34.67	8.31	34.41	100	235	Peak
5460.00	40.46	-13.54	54.00	31.89	34.67	8.31	34.41	100	235	Average
5470.00	65.91	-22.39	88.30	57.32	34.68	8.32	34.41	100	235	Peak
5470.00	45.04	-23.26	68.30	36.45	34.68	8.32	34.41	100	235	Average
5500.00	103.05	-	-	94.42	34.69	8.34	34.40	100	235	Peak
5500.00	91.91	-	-	83.26	34.70	8.35	34.40	100	235	Average
5725.00	51.71	-36.59	88.30	42.79	35.01	8.40	34.49	100	235	Peak
5725.00	38.70	-29.60	68.30	29.78	35.01	8.40	34.49	100	235	Average



Test Mode :	Mode 17	Temperature :	24~25°C
Test Channel :	120	Relative Humidity :	43~44%
Test Engineer :	Kay Wu	Polarization :	Horizontal
Remark :	1. 5600 MHz is Fundamental Signals which can be ignored. 2. 5470 MHz and 5725 MHz are not within a restricted band.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5460.00	50.68	-23.32	74.00	42.11	34.67	8.31	34.41	100	322	Peak
5460.00	43.37	-10.63	54.00	34.80	34.67	8.31	34.41	100	322	Average
5470.00	51.23	-37.07	88.30	42.64	34.68	8.32	34.41	100	322	Peak
5470.00	50.09	-18.21	68.30	41.50	34.68	8.32	34.41	100	322	Average
5600.00	109.08	-	-	100.33	34.82	8.37	34.44	100	322	Peak
5600.00	97.18	-	-	88.41	34.84	8.37	34.44	100	322	Average
5725.00	50.82	-37.48	88.30	41.90	35.01	8.40	34.49	100	322	Peak
5725.00	39.02	-29.28	68.30	30.10	35.01	8.40	34.49	100	322	Average



Test Mode :	Mode 17	Temperature :	24~25°C
Test Channel :	120	Relative Humidity :	43~44%
Test Engineer :	Kay Wu	Polarization :	Vertical
Remark :	1. 5600 MHz is Fundamental Signals which can be ignored. 2. 5470 MHz and 5725 MHz are not within a restricted band.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5460.00	50.29	-23.71	74.00	41.72	34.67	8.31	34.41	100	318	Peak
5460.00	38.15	-15.85	54.00	29.58	34.67	8.31	34.41	100	318	Average
5470.00	49.81	-38.49	88.30	41.22	34.68	8.32	34.41	100	318	Peak
5470.00	38.26	-30.04	68.30	29.67	34.68	8.32	34.41	100	318	Average
5600.00	103.77	-	-	95.02	34.82	8.37	34.44	100	318	Peak
5600.00	93.73	-	-	84.96	34.84	8.37	34.44	100	318	Average
5725.00	50.34	-37.96	88.30	41.42	35.01	8.40	34.49	100	318	Peak
5725.00	38.95	-29.35	68.30	30.03	35.01	8.40	34.49	100	318	Average



Test Mode :	Mode 18	Temperature :	24~25°C
Test Channel :	140	Relative Humidity :	43~44%
Test Engineer :	Kay Wu	Polarization :	Horizontal
Remark :	1. 5700 MHz is Fundamental Signals which can be ignored. 2. 5470 MHz and 5725 MHz are not within a restricted band.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5460.00	49.37	-24.63	74.00	40.80	34.67	8.31	34.41	100	318	Peak
5460.00	37.88	-16.12	54.00	29.31	34.67	8.31	34.41	100	318	Average
5470.00	49.13	-39.17	88.30	40.54	34.68	8.32	34.41	100	318	Peak
5470.00	37.88	-30.42	68.30	29.29	34.68	8.32	34.41	100	318	Average
5700.00	111.29	-	-	102.40	34.97	8.40	34.48	100	318	Peak
5700.00	96.96	-	-	88.07	34.97	8.40	34.48	100	318	Average
5725.00	85.12	-3.18	88.30	76.20	35.01	8.40	34.49	100	318	Peak
5725.00	59.38	-8.92	68.30	50.46	35.01	8.40	34.49	100	318	Average



Test Mode :	Mode 18	Temperature :	24~25°C
Test Channel :	140	Relative Humidity :	43~44%
Test Engineer :	Kay Wu	Polarization :	Vertical
Remark :	1. 5700 MHz is Fundamental Signals which can be ignored. 2. 5470 MHz and 5725 MHz are not within a restricted band.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5460.00	49.84	-24.16	74.00	41.27	34.67	8.31	34.41	130	112	Peak
5460.00	37.88	-16.12	54.00	29.31	34.67	8.31	34.41	130	112	Average
5470.00	49.43	-38.87	88.30	40.84	34.68	8.32	34.41	130	112	Peak
5470.00	37.88	-30.42	68.30	29.29	34.68	8.32	34.41	130	112	Average
5700.00	106.82	-	-	97.93	34.97	8.40	34.48	130	112	Peak
5700.00	96.96	-	-	88.07	34.97	8.40	34.48	130	112	Average
5725.00	81.61	-6.69	88.30	72.69	35.01	8.40	34.49	130	112	Peak
5725.00	59.38	-8.92	68.30	50.46	35.01	8.40	34.49	130	112	Average



Test Mode :	Mode 19	Temperature :	24~25°C
Test Channel :	38	Relative Humidity :	43~44%
Test Engineer :	Kay Wu	Polarization :	Horizontal
Remark :	5190 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
30.81	22.49	-17.51	40.00	34.46	18.95	0.54	31.46	-	-	Peak
180.93	26.47	-17.03	43.50	47.72	9.03	1.25	31.53	100	64	Peak
219.81	19.38	-26.62	46.00	40.27	9.15	1.42	31.46	-	-	Peak
478.50	24.53	-21.47	46.00	35.50	17.72	2.37	31.06	-	-	Peak
528.20	23.95	-22.05	46.00	33.75	18.71	2.51	31.02	-	-	Peak
719.30	27.42	-18.58	46.00	34.09	21.11	2.99	30.77	-	-	Peak
5150.00	53.19	-0.81	54.00	45.10	34.49	8.07	34.47	177	177	Average
5150.00	65.99	-8.01	74.00	57.90	34.49	8.07	34.47	177	177	Peak
5190.00	88.15	-	-	80.00	34.51	8.10	34.46	177	177	Average
5190.00	98.54	-	-	90.39	34.51	8.10	34.46	177	177	Peak
5350.00	50.78	-23.22	74.00	42.37	34.61	8.23	34.43	177	177	Peak
5350.00	39.15	-14.85	54.00	30.74	34.61	8.23	34.43	177	177	Average
8396.00	53.93	-20.07	74.00	42.92	36.00	10.11	35.10	100	55	Peak
8396.00	40.90	-33.10	74.00	29.89	36.00	10.11	35.10	100	55	Peak
15570.00	48.95	-25.05	74.00	76.26	-6.63	14.30	34.98	100	0	Peak



Test Mode :	Mode 19	Temperature :	24~25°C
Test Channel :	38	Relative Humidity :	43~44%
Test Engineer :	Kay Wu	Polarization :	Vertical
Remark :	5190 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
89.13	29.45	-14.05	43.50	51.29	8.75	0.93	31.52	-	-	Peak
167.70	28.40	-15.10	43.50	48.88	9.81	1.23	31.52	-	-	Peak
202.26	29.97	-13.53	43.50	51.27	8.85	1.33	31.48	100	54	Peak
310.50	24.17	-21.83	46.00	39.96	13.74	1.79	31.32	-	-	Peak
699.00	24.65	-21.35	46.00	31.70	20.83	2.94	30.82	-	-	Peak
864.90	26.12	-19.88	46.00	30.71	22.84	3.29	30.72	-	-	Peak
5150.00	46.63	-7.37	54.00	38.54	34.49	8.07	34.47	155	340	Average
5150.00	59.28	-14.72	74.00	51.19	34.49	8.07	34.47	155	340	Peak
5190.00	91.75	-	-	83.58	34.52	8.11	34.46	155	340	Peak
5190.00	80.95	-	-	72.80	34.51	8.10	34.46	155	340	Average
5350.00	38.74	-15.26	54.00	30.33	34.61	8.23	34.43	155	340	Average
5350.00	49.94	-24.06	74.00	41.53	34.61	8.23	34.43	155	340	Peak
8414.00	55.18	-18.82	74.00	44.16	36.00	10.12	35.10	100	98	Peak
8414.00	41.01	-12.99	54.00	29.99	36.00	10.12	35.10	100	98	Average
15570.00	44.42	-29.58	74.00	71.68	-6.63	14.32	34.95	100	0	Peak



Test Mode :	Mode 20	Temperature :	24~25°C
Test Channel :	46	Relative Humidity :	43~44%
Test Engineer :	Kay Wu	Polarization :	Horizontal
Remark :	5230 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
44.58	26.38	-13.62	40.00	46.31	10.92	0.65	31.50	-	-	Peak
155.01	35.83	-7.67	43.50	55.36	10.79	1.22	31.54	100	67	Peak
193.62	27.53	-15.97	43.50	48.86	8.87	1.30	31.50	-	-	Peak
478.50	25.12	-20.88	46.00	36.09	17.72	2.37	31.06	-	-	Peak
528.20	24.43	-21.57	46.00	34.23	18.71	2.51	31.02	-	-	Peak
719.30	28.03	-17.97	46.00	34.70	21.11	2.99	30.77	-	-	Peak
5150.00	38.88	-15.12	54.00	30.79	34.49	8.07	34.47	177	170	Average
5150.00	50.20	-23.80	74.00	42.11	34.49	8.07	34.47	177	170	Peak
5230.00	88.48	-	-	80.25	34.54	8.14	34.45	177	170	Average
5230.00	98.68	-	-	90.48	34.53	8.12	34.45	177	170	Peak
5350.00	51.20	-22.80	74.00	42.79	34.61	8.23	34.43	177	170	Peak
5350.00	39.21	-14.79	54.00	30.80	34.61	8.23	34.43	177	170	Average
8396.00	54.06	-19.94	74.00	43.05	36.00	10.11	35.10	100	91	Peak
8396.00	41.12	-12.88	54.00	30.11	36.00	10.11	35.10	100	91	Average
15690.00	47.25	-26.75	74.00	74.78	-6.68	14.23	35.08	100	0	Peak



Test Mode :	Mode 20	Temperature :	24~25°C
Test Channel :	46	Relative Humidity :	43~44%
Test Engineer :	Kay Wu	Polarization :	Vertical
Remark :	5230 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
31.62	25.22	-14.78	40.00	37.73	18.40	0.55	31.46	100	94	Peak
75.90	21.98	-18.02	40.00	45.54	7.12	0.86	31.54	-	-	Peak
121.26	22.64	-20.86	43.50	40.94	12.15	1.11	31.56	-	-	Peak
500.20	22.57	-23.43	46.00	33.01	18.18	2.45	31.07	-	-	Peak
623.40	24.68	-21.32	46.00	32.57	20.25	2.76	30.90	-	-	Peak
928.60	26.43	-19.57	46.00	30.04	23.61	3.41	30.63	-	-	Peak
5150.00	38.49	-15.51	54.00	30.40	34.49	8.07	34.47	104	178	Average
5150.00	49.86	-24.14	74.00	41.77	34.49	8.07	34.47	104	178	Peak
5230.00	81.29	-	-	73.06	34.54	8.14	34.45	104	178	Average
5230.00	91.53	-	-	83.30	34.54	8.14	34.45	104	178	Peak
5350.00	50.47	-23.53	74.00	42.06	34.61	8.23	34.43	104	178	Peak
5350.00	38.77	-15.23	54.00	30.36	34.61	8.23	34.43	104	178	Average
8436.00	54.39	-19.61	74.00	43.36	36.00	10.13	35.10	100	12	Peak
8436.00	40.66	-13.34	54.00	29.63	36.00	10.13	35.10	100	12	Average
15690.00	44.41	-29.59	74.00	71.93	-6.67	14.23	35.08	100	0	Peak



Test Mode :	Mode 21	Temperature :	24~25°C
Test Channel :	54	Relative Humidity :	43~44%
Test Engineer :	Kay Wu	Polarization :	Horizontal
Remark :	5270 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
30.81	21.24	-18.76	40.00	33.21	18.95	0.54	31.46	-	-	Peak
154.74	19.38	-24.12	43.50	38.91	10.79	1.22	31.54	-	-	Peak
295.41	23.66	-22.34	46.00	39.84	13.41	1.74	31.33	-	-	Peak
323.80	32.82	-13.18	46.00	48.21	14.10	1.83	31.32	100	55	Peak
719.30	27.25	-18.75	46.00	33.92	21.11	2.99	30.77	-	-	Peak
869.80	26.07	-19.93	46.00	30.60	22.89	3.30	30.72	-	-	Peak
5150.00	38.61	-15.39	54.00	30.52	34.49	8.07	34.47	178	173	Average
5150.00	50.28	-23.72	74.00	42.19	34.49	8.07	34.47	178	173	Peak
5270.00	89.53	-	-	81.26	34.56	8.16	34.45	178	173	Average
5270.00	100.14	-	-	91.83	34.57	8.18	34.44	178	173	Peak
5350.00	51.68	-22.32	74.00	43.27	34.61	8.23	34.43	178	173	Peak
5350.00	39.44	-14.56	54.00	31.03	34.61	8.23	34.43	178	173	Average
8430.00	54.48	-19.52	74.00	43.45	36.00	10.13	35.10	100	89	Peak
8430.00	41.14	-12.86	54.00	30.11	36.00	10.13	35.10	100	89	Average
15810.00	45.14	-28.86	74.00	72.92	-6.72	14.13	35.19	100	0	Peak



Test Mode :	Mode 21	Temperature :	24~25°C
Test Channel :	54	Relative Humidity :	43~44%
Test Engineer :	Kay Wu	Polarization :	Vertical
Remark :	5270 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
30.00	25.11	-14.89	40.00	36.53	19.51	0.53	31.46	-	-	Peak
77.25	21.50	-18.50	40.00	44.86	7.30	0.87	31.53	-	-	Peak
198.21	31.47	-12.03	43.50	52.83	8.82	1.31	31.49	100	137	Peak
498.10	23.04	-22.96	46.00	33.53	18.14	2.44	31.07	-	-	Peak
668.20	23.90	-22.10	46.00	31.28	20.59	2.88	30.85	-	-	Peak
937.70	26.25	-19.75	46.00	29.67	23.75	3.43	30.60	-	-	Peak
5150.00	38.44	-15.56	54.00	30.35	34.49	8.07	34.47	120	177	Average
5150.00	49.72	-24.28	74.00	41.63	34.49	8.07	34.47	120	177	Peak
5270.00	83.33	-	-	75.06	34.56	8.16	34.45	120	177	Average
5270.00	93.94	-	-	85.67	34.56	8.16	34.45	120	177	Peak
5350.00	50.44	-23.56	74.00	42.03	34.61	8.23	34.43	120	177	Peak
5350.00	38.81	-15.19	54.00	30.40	34.61	8.23	34.43	120	177	Average
8412.00	54.76	-19.24	74.00	43.74	36.00	10.12	35.10	100	94	Peak
8412.00	41.01	-12.99	54.00	29.99	36.00	10.12	35.10	100	94	Average
15810.00	41.43	-32.57	74.00	69.24	-6.72	14.13	35.22	100	0	Peak



Test Mode :	Mode 22	Temperature :	24~25°C
Test Channel :	62	Relative Humidity :	43~44%
Test Engineer :	Kay Wu	Polarization :	Horizontal
Remark :	5310 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
30.81	21.15	-18.85	40.00	33.12	18.95	0.54	31.46	-	-	Peak
136.65	21.73	-21.77	43.50	40.38	11.72	1.19	31.56	-	-	Peak
272.73	20.99	-25.01	46.00	37.63	13.08	1.64	31.36	-	-	Peak
478.50	24.58	-21.42	46.00	35.55	17.72	2.37	31.06	-	-	Peak
719.30	26.85	-19.15	46.00	33.52	21.11	2.99	30.77	-	-	Peak
900.60	27.36	-18.64	46.00	31.53	23.19	3.34	30.70	100	285	Peak
5150.00	38.98	-15.02	54.00	30.89	34.49	8.07	34.47	138	305	Average
5150.00	50.53	-23.47	74.00	42.44	34.49	8.07	34.47	138	305	Peak
5310.00	103.95	-	-	95.60	34.59	8.20	34.44	138	305	Peak
5310.00	93.65	-	-	85.30	34.59	8.20	34.44	138	305	Average
5350.00	64.55	-9.45	74.00	56.14	34.61	8.23	34.43	138	305	Peak
5350.00	50.98	-3.02	54.00	42.57	34.61	8.23	34.43	138	305	Average
8430.00	54.55	-19.45	74.00	43.52	36.00	10.13	35.10	100	117	Peak
8430.00	40.58	-13.42	54.00	29.55	36.00	10.13	35.10	100	117	Average



Test Mode :	Mode 22	Temperature :	24~25°C
Test Channel :	62	Relative Humidity :	43~44%
Test Engineer :	Kay Wu	Polarization :	Vertical
Remark :	5310 MHz is Fundamental Signals which can be ignored.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
30.00	25.10	-14.90	40.00	36.52	19.51	0.53	31.46	-	-	Peak
75.09	21.88	-18.12	40.00	45.53	7.04	0.85	31.54	-	-	Peak
164.46	20.73	-22.77	43.50	40.99	10.03	1.23	31.52	100	94	Peak
315.40	32.21	-13.79	46.00	47.86	13.87	1.80	31.32	-	-	Peak
498.10	23.13	-22.87	46.00	33.62	18.14	2.44	31.07	-	-	Peak
906.20	25.98	-20.02	46.00	30.04	23.27	3.35	30.68	-	-	Peak
5150.00	38.06	-15.94	54.00	29.97	34.49	8.07	34.47	102	181	Average
5150.00	49.00	-25.00	74.00	40.91	34.49	8.07	34.47	102	181	Peak
5310.00	87.31	-	-	78.96	34.59	8.20	34.44	102	181	Average
5310.00	97.90	-	-	89.55	34.59	8.20	34.44	102	181	Peak
5350.00	48.35	-5.65	54.00	39.94	34.61	8.23	34.43	102	181	Average
5350.00	61.83	-12.17	74.00	53.42	34.61	8.23	34.43	102	181	Peak
8476.00	54.76	-19.24	74.00	43.69	36.00	10.17	35.10	100	91	Peak
8476.00	40.93	-13.07	54.00	29.86	36.00	10.17	35.10	100	91	Average



Test Mode :	Mode 23	Temperature :	24~25°C
Test Channel :	102	Relative Humidity :	43~44%
Test Engineer :	Kay Wu	Polarization :	Horizontal
Remark :	1. 5510 MHz is Fundamental Signals which can be ignored. 2. 5470 MHz and 5725 MHz are not within a restricted band.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
30.00	20.93	-19.07	40.00	32.35	19.51	0.53	31.46	100	28	Peak
132.06	22.76	-20.74	43.50	41.41	11.76	1.16	31.57	-	-	Peak
153.93	19.44	-24.06	43.50	38.90	10.87	1.21	31.54	-	-	Peak
430.90	20.93	-25.07	46.00	33.06	16.75	2.25	31.13	-	-	Peak
478.50	24.83	-21.17	46.00	35.80	17.72	2.37	31.06	-	-	Peak
719.30	26.00	-20.00	46.00	32.67	21.11	2.99	30.77	-	-	Peak
5460.00	65.22	-8.78	74.00	56.65	34.67	8.31	34.41	101	323	Peak
5460.00	49.68	-4.32	54.00	41.11	34.67	8.31	34.41	101	323	Average
5470.00	58.53	-9.77	68.30	49.94	34.68	8.32	34.41	101	323	Average
5470.00	77.32	-10.98	88.30	68.73	34.68	8.32	34.41	101	323	Peak
5510.00	104.60	-	-	95.97	34.69	8.34	34.40	101	323	Peak
5510.00	93.80	-	-	85.16	34.70	8.35	34.41	101	323	Average
5725.00	51.11	-37.19	88.30	42.19	35.01	8.40	34.49	101	323	Peak
5725.00	38.87	-29.43	68.30	29.95	35.01	8.40	34.49	101	323	Average
8492.00	54.79	-19.21	74.00	43.71	36.00	10.18	35.10	100	78	Peak
8492.00	40.96	-13.04	54.00	29.88	36.00	10.18	35.10	100	78	Average



Test Mode :	Mode 23	Temperature :	24~25°C
Test Channel :	102	Relative Humidity :	43~44%
Test Engineer :	Kay Wu	Polarization :	Vertical
Remark :	1. 5510 MHz is Fundamental Signals which can be ignored. 2. 5470 MHz and 5725 MHz are not within a restricted band.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
31.62	25.73	-14.27	40.00	38.24	18.40	0.55	31.46	-	-	Peak
164.46	28.38	-15.12	43.50	48.64	10.03	1.23	31.52	-	-	Peak
199.29	29.63	-13.87	43.50	50.99	8.80	1.32	31.48	100	100	Peak
500.20	22.29	-23.71	46.00	32.73	18.18	2.45	31.07	-	-	Peak
701.80	24.86	-21.14	46.00	31.87	20.87	2.94	30.82	-	-	Peak
839.70	25.77	-20.23	46.00	30.65	22.60	3.24	30.72	-	-	Peak
5460.00	59.24	-14.76	74.00	50.67	34.67	8.31	34.41	112	0	Peak
5460.00	45.66	-8.34	54.00	37.09	34.67	8.31	34.41	112	0	Average
5470.00	52.42	-15.88	68.30	43.83	34.68	8.32	34.41	112	0	Average
5470.00	69.45	-18.85	88.30	60.86	34.68	8.32	34.41	112	0	Peak
5510.00	99.76	-	-	91.13	34.69	8.34	34.40	112	0	Peak
5510.00	89.21	-	-	80.57	34.70	8.35	34.41	112	0	Average
5725.00	50.01	-38.29	88.30	41.09	35.01	8.40	34.49	112	0	Peak
5725.00	38.47	-29.83	68.30	29.55	35.01	8.40	34.49	112	0	Average
8318.00	53.80	-20.20	74.00	42.85	36.00	10.05	35.10	100	59	Peak
8318.00	40.73	-13.27	54.00	29.78	36.00	10.05	35.10	100	59	Average



Test Mode :	Mode 24	Temperature :	24~25°C
Test Channel :	118	Relative Humidity :	43~44%
Test Engineer :	Kay Wu	Polarization :	Horizontal
Remark :	1. 5590 MHz is Fundamental Signals which can be ignored. 2. 5470 MHz and 5725 MHz are not within a restricted band.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
32.97	21.66	-18.34	40.00	34.73	17.84	0.56	31.47	-	-	Peak
139.62	20.00	-23.50	43.50	38.65	11.70	1.20	31.55	-	-	Peak
185.25	25.28	-18.22	43.50	46.56	8.98	1.26	31.52	100	177	Peak
302.10	25.78	-20.22	46.00	41.79	13.54	1.78	31.33	-	-	Peak
478.50	24.65	-21.35	46.00	35.62	17.72	2.37	31.06	-	-	Peak
719.30	26.65	-19.35	46.00	33.32	21.11	2.99	30.77	-	-	Peak
5460.00	49.33	-24.67	74.00	40.76	34.67	8.31	34.41	100	320	Peak
5460.00	38.12	-15.88	54.00	29.55	34.67	8.31	34.41	100	320	Average
5470.00	38.24	-30.06	68.30	29.65	34.68	8.32	34.41	100	320	Average
5470.00	49.44	-38.86	88.30	40.85	34.68	8.32	34.41	100	320	Peak
5590.00	104.73	-	-	96.00	34.80	8.37	34.44	100	320	Peak
5590.00	93.90	-	-	85.15	34.82	8.37	34.44	100	320	Average
5725.00	49.92	-38.38	88.30	41.00	35.01	8.40	34.49	100	320	Peak
5725.00	38.85	-29.45	68.30	29.93	35.01	8.40	34.49	100	320	Average
8438.00	54.71	-19.29	74.00	43.67	36.00	10.14	35.10	100	195	Peak
8438.00	40.72	-13.28	54.00	29.68	36.00	10.14	35.10	100	195	Average



Test Mode :	Mode 24	Temperature :	24~25°C
Test Channel :	118	Relative Humidity :	43~44%
Test Engineer :	Kay Wu	Polarization :	Vertical
Remark :	1. 5590 MHz is Fundamental Signals which can be ignored. 2. 5470 MHz and 5725 MHz are not within a restricted band.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
79.14	28.64	-11.36	40.00	51.81	7.48	0.88	31.53	100	74	Peak
117.21	24.17	-19.33	43.50	42.68	11.96	1.09	31.56	-	-	Peak
204.42	29.30	-14.20	43.50	50.56	8.88	1.34	31.48	-	-	Peak
312.60	32.06	-13.94	46.00	47.80	13.79	1.79	31.32	-	-	Peak
719.30	25.47	-20.53	46.00	32.14	21.11	2.99	30.77	-	-	Peak
925.80	25.77	-20.23	46.00	29.42	23.58	3.40	30.63	-	-	Peak
5460.00	49.85	-24.15	74.00	41.28	34.67	8.31	34.41	100	317	Peak
5460.00	37.81	-16.19	54.00	29.24	34.67	8.31	34.41	100	317	Average
5470.00	37.90	-30.40	68.30	29.31	34.68	8.32	34.41	100	317	Average
5470.00	48.47	-39.83	88.30	39.88	34.68	8.32	34.41	100	317	Peak
5590.00	98.61	-	-	89.88	34.80	8.37	34.44	100	317	Peak
5590.00	88.24	-	-	79.49	34.82	8.37	34.44	100	317	Average
5725.00	49.81	-38.49	88.30	40.89	35.01	8.40	34.49	100	317	Peak
5725.00	38.57	-29.73	68.30	29.65	35.01	8.40	34.49	100	317	Average
8380.00	54.47	-19.53	74.00	43.47	36.00	10.10	35.10	100	31	Peak
8380.00	40.00	-14.00	54.00	29.00	36.00	10.10	35.10	100	31	Average



Test Mode :	Mode 25	Temperature :	24~25°C
Test Channel :	134	Relative Humidity :	43~44%
Test Engineer :	Kay Wu	Polarization :	Horizontal
Remark :	1. 5670 MHz is Fundamental Signals which can be ignored. 2. 5470 MHz and 5725 MHz are not within a restricted band.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
31.89	21.67	-18.33	40.00	34.18	18.40	0.55	31.46	-	-	Peak
176.34	23.41	-20.09	43.50	44.47	9.23	1.24	31.53	-	-	Peak
211.98	25.73	-17.77	43.50	46.81	9.02	1.37	31.47	100	54	Peak
478.50	24.38	-21.62	46.00	35.35	17.72	2.37	31.06	-	-	Peak
719.30	26.27	-19.73	46.00	32.94	21.11	2.99	30.77	-	-	Peak
906.20	26.48	-19.52	46.00	30.54	23.27	3.35	30.68	-	-	Peak
5460.00	49.54	-24.46	74.00	40.97	34.67	8.31	34.41	100	319	Peak
5460.00	38.02	-15.98	54.00	29.45	34.67	8.31	34.41	100	319	Average
5470.00	49.47	-38.83	88.30	40.88	34.68	8.32	34.41	100	319	Peak
5470.00	38.09	-30.21	68.30	29.50	34.68	8.32	34.41	100	319	Average
5670.00	96.00	-	-	87.14	34.94	8.39	34.47	100	319	Average
5670.00	106.91	-	-	98.05	34.94	8.39	34.47	100	319	Peak
5725.00	68.26	-20.04	88.30	59.34	35.01	8.40	34.49	100	319	Peak
5725.00	49.60	-18.70	68.30	40.68	35.01	8.40	34.49	100	319	Average
8414.00	54.89	-19.11	74.00	43.87	36.00	10.12	35.10	100	57	Peak
8414.00	40.91	-13.09	54.00	29.89	36.00	10.12	35.10	100	57	Average



Test Mode :	Mode 25	Temperature :	24~25°C
Test Channel :	134	Relative Humidity :	43~44%
Test Engineer :	Kay Wu	Polarization :	Vertical
Remark :	1. 5670 MHz is Fundamental Signals which can be ignored. 2. 5470 MHz and 5725 MHz are not within a restricted band.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
31.62	25.03	-14.97	40.00	37.54	18.40	0.55	31.46	100	20	Peak
73.74	22.44	-17.56	40.00	46.18	6.95	0.85	31.54	-	-	Peak
158.25	20.52	-22.98	43.50	40.29	10.54	1.22	31.53	-	-	Peak
500.20	22.38	-23.62	46.00	32.82	18.18	2.45	31.07	-	-	Peak
719.30	25.48	-20.52	46.00	32.15	21.11	2.99	30.77	-	-	Peak
887.30	25.83	-20.17	46.00	30.16	23.06	3.32	30.71	-	-	Peak
5460.00	37.87	-16.13	54.00	29.30	34.67	8.31	34.41	127	69	Average
5460.00	49.35	-24.65	74.00	40.78	34.67	8.31	34.41	127	69	Peak
5470.00	37.86	-30.44	68.30	29.27	34.68	8.32	34.41	127	69	Average
5470.00	49.44	-38.86	88.30	40.85	34.68	8.32	34.41	127	69	Peak
5670.00	91.91	-	-	83.05	34.94	8.39	34.47	127	69	Average
5670.00	102.64	-	-	93.78	34.94	8.39	34.47	127	69	Peak
5725.00	45.01	-23.29	68.30	36.09	35.01	8.40	34.49	127	69	Average
5725.00	60.70	-27.60	88.30	51.78	35.01	8.40	34.49	127	69	Peak
8390.00	54.24	-19.76	74.00	43.23	36.00	10.11	35.10	100	84	Peak
8390.00	40.67	-13.33	54.00	29.66	36.00	10.11	35.10	100	84	Average



3.4 Antenna Requirements

3.4.1 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.

3.4.2 Antenna Connected Construction

The antenna type used in this product is PIFA Antenna and it is considered to meet antenna requirement of FCC.

3.4.3 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	Due Date	Remark
EMI Test Receive	R&S	ESCS 30	100356	9KHz – 2.75GHz	Aug. 05, 2009	Aug. 04, 2010	Conduction (CO05-HY)
Two-LISN	R&S	ENV216	11-100081	9kHz~30MHz	Nov. 30, 2009	Nov. 29, 2010	Conduction (CO05-HY)
Two-LISN	R&S	ENV216	11-100080	9kHz~30MHz	Nov. 23, 2009	Nov. 22, 2010	Conduction (CO05-HY)
AC Power Source	APC	APC-1000W	N/A	N/A	N/A	N/A	Conduction (CO05-HY)
System Simulator	R&S	CMU200	105934	N/A	Nov. 11, 2008	Nov. 10, 2010	Conduction (CO05-HY)
GPS Station	T&E	GS-50	N/A	N/A	N/A	N/A	Conduction (CO05-HY)
Bilog Antenna	SCHAFFNER	CBL6111C	2726	30MHz ~ 1GHz	Oct. 31, 2009	Oct. 30, 2010	Radiation (03CH07-HY)
Spectrum Analyzer	R&S	FSP	101067	9KHz ~ 30GHz	Dec. 04, 2009	Dec. 03, 2010	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ESCO	3117	00075962	1GHz ~ 18GHz	Aug. 20, 2009	Aug. 19, 2010	Radiation (03CH07-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170251	15GHz- 40GHz	Oct. 14, 2009	Oct. 13, 2010	Radiation (03CH07-HY)
Pre Amplifier	Agilent	8449B	3008A02362	1GHz~ 26.5GHz	Dec.09,2009	Dec. 08, 2010	Radiation (03CH07-HY)
Pre Amplifier	COM-POWER	PA-103A	161241	10-1000MHz. 32dB.GAIN	Mar. 27, 2010	Mar. 26, 2011	Radiation (03CH07-HY)

5 Uncertainty of Evaluation

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

Contribution	Uncertainty of X_i		$u(X_i)$
	dB	Probability Distribution	
Receiver Reading	0.10	Normal (k=2)	0.05
Cable Loss	0.10	Normal (k=2)	0.05
AMN Insertion Loss	2.50	Rectangular	0.63
Receiver Specification	1.50	Rectangular	0.43
Site Imperfection	1.39	Rectangular	0.80
Mismatch	+0.34 / -0.35	U-Shape	0.24
Combined Standard Uncertainty $U_c(y)$	1.13		
Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	2.26		

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

Contribution	Uncertainty of X_i		$u(X_i)$
	dB	Probability Distribution	
Receiver Reading	0.41	Normal (k=2)	0.21
Antenna Factor Calibration	0.83	Normal (k=2)	0.42
Cable Loss Calibration	0.25	Normal (k=2)	0.13
Pre-Amplifier Gain Calibration	0.27	Normal (k=2)	0.14
RCV/SPA Specification	2.50	Rectangular	0.72
Antenna Factor Interpolation for Frequency	1.00	Rectangular	0.29
Site Imperfection	1.43	Rectangular	0.83
Mismatch	+0.39 / -0.41	U-Shape	0.28
Combined Standard Uncertainty $U_c(y)$	1.27		
Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	2.54		



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

Contribution	Uncertainty of X_i		$u(X_i)$	C_i	$C_i * u(X_i)$
	dB	Probability Distribution			
Receiver Reading	±0.10	Normal (k=2)	0.10	1	0.10
Antenna Factor Calibration	±1.70	Normal (k=2)	0.85	1	0.85
Cable Loss Calibration	±0.50	Normal (k=2)	0.25	1	0.25
Receiver Correction	±2.00	Rectangular	1.15	1	1.15
Antenna Factor Directional	±1.50	Rectangular	0.87	1	0.87
Site Imperfection	±2.80	Triangular	1.14	1	1.14
Mismatch Receiver VSWR $\Gamma_1 = 0.197$ Antenna VSWR $\Gamma_2 = 0.194$ Uncertainty = $20\text{Log}(1-\Gamma_1*\Gamma_2)$	+0.34 / -0.35	U-Shape	0.244	1	0.244
Combined Standard Uncertainty $U_c(y)$	2.36				
Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	4.72				



Appendix A. Photographs of EUT

Please refer to Sporton report number EP050315-05 as below.