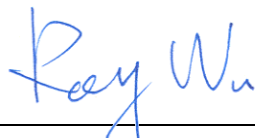


Variant FCC Test Report

APPLICANT : Meru Networks Inc.
EQUIPMENT : Multi Radio 802.11a/b/g/n Wireless LAN Access Point
BRAND NAME : Meru Networks Inc.
MODEL NAME : AP302i, AP320i
FCC ID : RE7-AP300
STANDARD : FCC Part 15 Subpart E
CLASSIFICATION : Unlicensed National Information Infrastructure (UNII)

This is a variant report which is only valid combined with the original test report. The product was received on Dec. 04, 2009 and completely tested on Dec. 30, 2009. 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.



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APPENDIX A. PHOTOGRAPHS OF EUT

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APPENDIX D. ORIGINAL REPORT



REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR9D0408B	Rev. 01	This is a variant report which can be referred to appendix C for product equality declaration. All the test cases were performed on original report which can be referred to appendix D. Based on the original report, only AC Conducted Emission and Radiated Emission was verified.	Jan. 14, 2010



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 4.6 dB at 0.942 MHz
3.3	15.407(b)	A9.3	Transmitter Radiated Emission	$\leq -17, -27$ dBm (depend on band)&15.209(a)	Pass	Under limit 4.49 dB at 35.94 MHz
3.5	15.203 & 15.407(a)	A9.2	Antenna Requirement	N/A	Pass	-



1 General Description

1.1 Applicant

Meru Networks Inc.
894 Ross Drive Sunnyvale, CA 94089 USA

1.2 Manufacturer

Universal Scientific Industrial (Shanghai)
No. 1558, Zhang Dong Road, Zhangjiang Hi-Tech Park, Shanghai, P.R. China 201203

1.3 Feature of Equipment Under Test

Product Feature & Specification	
Equipment	Multi Radio 802.11a/b/g/n Wireless LAN Access Point
Brand Name	Meru Networks Inc.
Model Name	AP302i, AP320i
FCC ID	RE7-AP300
Tx/Rx Frequency Range	5150 MHz ~ 5250 MHz
Antenna Type	PIFA Antenna with gain 4.0 dBi
HW Version	AP300i
SW Version	3.6.1-41
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.	AC Adapter 1	UMEC	UP0251P-05PA	N/A	N/A	Shielded, 1.8 m
2.	AC Adapter 2 (for POE)	UMEC	UP0151D-48P	N/A	N/A	Shielded, 1.8 m
3.	POE	PLANET	POE-152	N/A	N/A	N/A
4.	Notebook	DELL	Vostro 1510	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
5.	Notebook	ASUS	F9E	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
6.	Notebook	Acer	MS2180	QDS-BRCM1018	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m



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)
36	5180	40	5200	44	5220

802.11n (BW 20MHz) Carrier Frequency Channel					
Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
36	5180	40	5200	44	5220

802.11n (BW 40MHz) Carrier Frequency Channel			
Channel	Freq. (MHz)	Channel	Freq. (MHz)
38	5190	44	5220

2.2 Test Mode

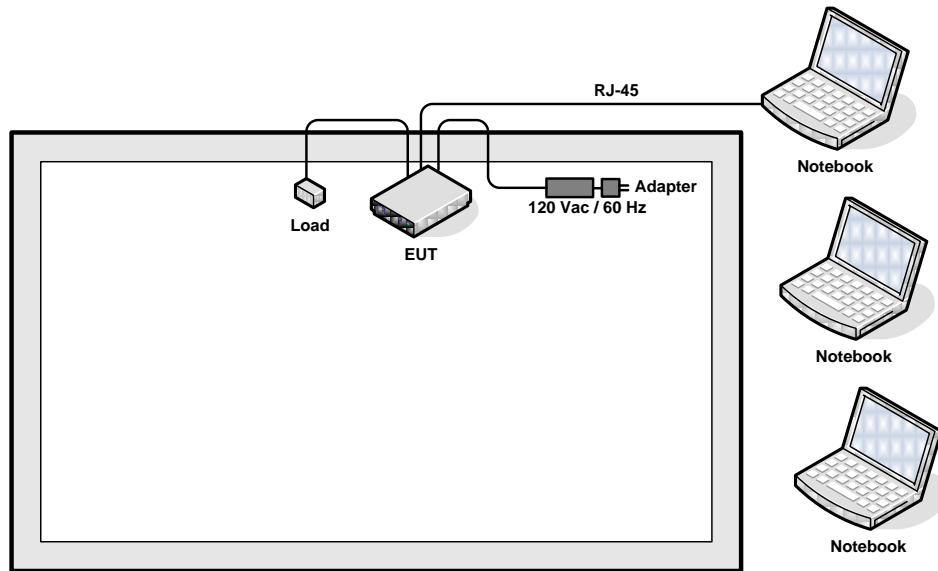
The EUT has been associated with peripherals pursuant to ANSI C63.4-2003 and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction (150 kHz to 30 MHz), radiation (9 kHz to the 10th harmonic of the highest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

Test Cases	
Test Item	802.11a (Modulation : OFDM)
Radiated TCs	<ul style="list-style-type: none"> ■ Mode 1: 802.11a_CH36_5180 MHz for WLAN 1 ■ Mode 2: 802.11a_CH40_5200 MHz for WLAN 1 ■ Mode 3: 802.11a_CH44_5220 MHz for WLAN 1 ■ Mode 4: 802.11a_CH36_5180 MHz for WLAN 2 ■ Mode 5: 802.11n(a)_CH36_5180 MHz (BW 20MHz) for WLAN 1 ■ Mode 6: 802.11n(a)_CH40_5200 MHz (BW 20MHz) for WLAN 1 ■ Mode 7: 802.11n(a)_CH44_5220 MHz (BW 20MHz) for WLAN 1 ■ Mode 8: 802.11n(a)_CH38_5190 MHz (BW 40MHz) for WLAN 1 ■ Mode 9: 802.11n(a)_CH44_5220 MHz (BW 40MHz) for WLAN 1 ■ Mode 10: 802.11a_CH36_5180 MHz for WLAN 1 + 802.11a_CH36_5180 MHz for WLAN 2
AC Conducted Emission	Mode 1 : WLAN 1 (2.4G) Link + WLAN 2 (2.4G) Link + LAN Link + Adapter 1 Mode 2 : WLAN 1 (5G) Link + WLAN 2 (5G) Link + POE + LAN Link + Adapter 2
Remark: <ol style="list-style-type: none"> 1. The worst case of AC conducted emission is mode 1; only the test data of it was reported. 2. The EUT has two modules which have the same design, and they can transmit simultaneously. 3. The WLAN 1 (module 1) was tested for full test modes, the WLAN 2 (module 2) was tested based on the worst case of WLAN 1, and the worst case for co-location was mode 10. 	

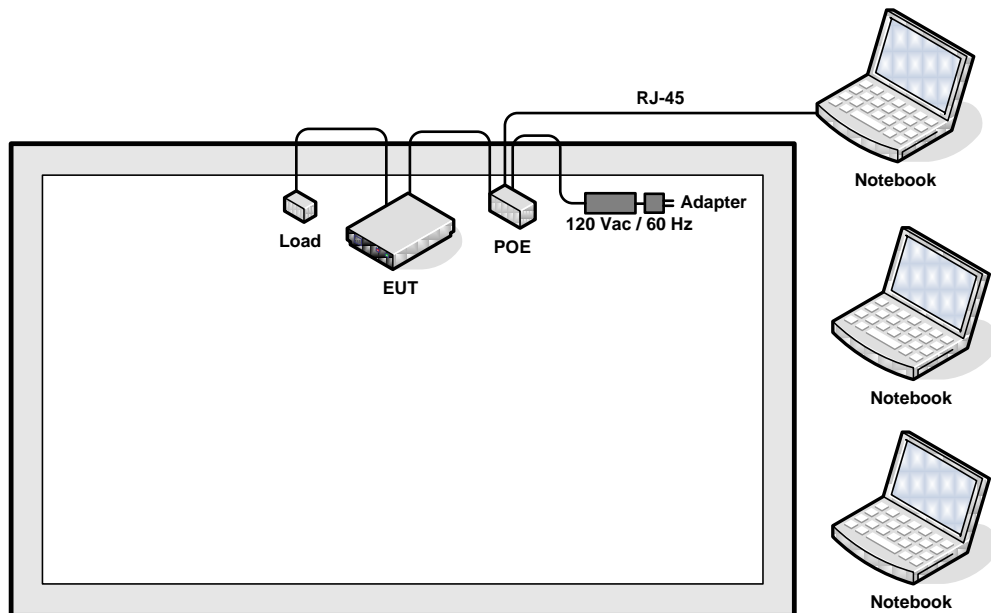
2.3 Connection Diagram of Test System

<Conduction Test>

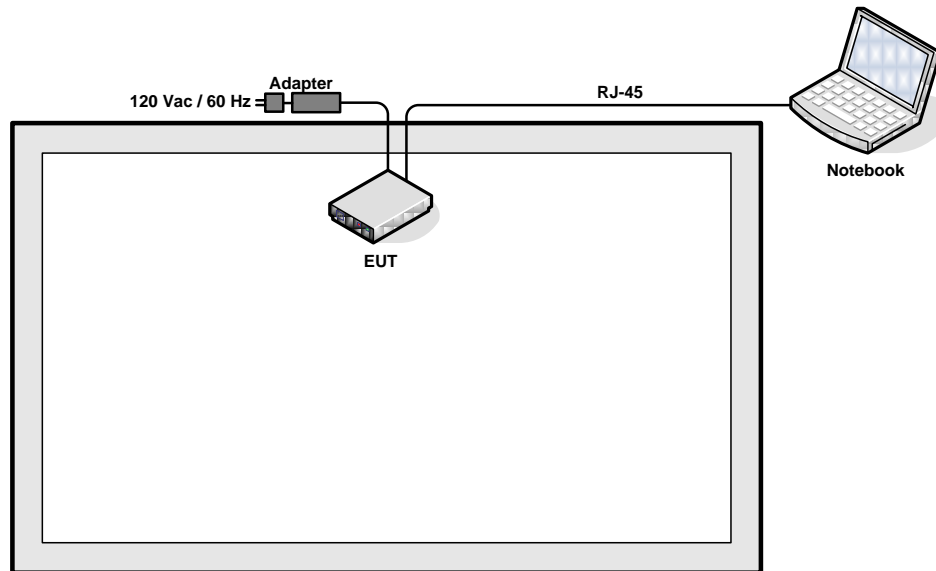
EUT with Adapter Mode



EUT with POE and Adapter Mode



<Radiation Test>



2.4 RF Utility

The programmed RF utility "ART", is installed in notebook 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.
- (2) The provisions of Section 15.205 Restricted bands of operation of this part apply to intentional radiators operating under this section.

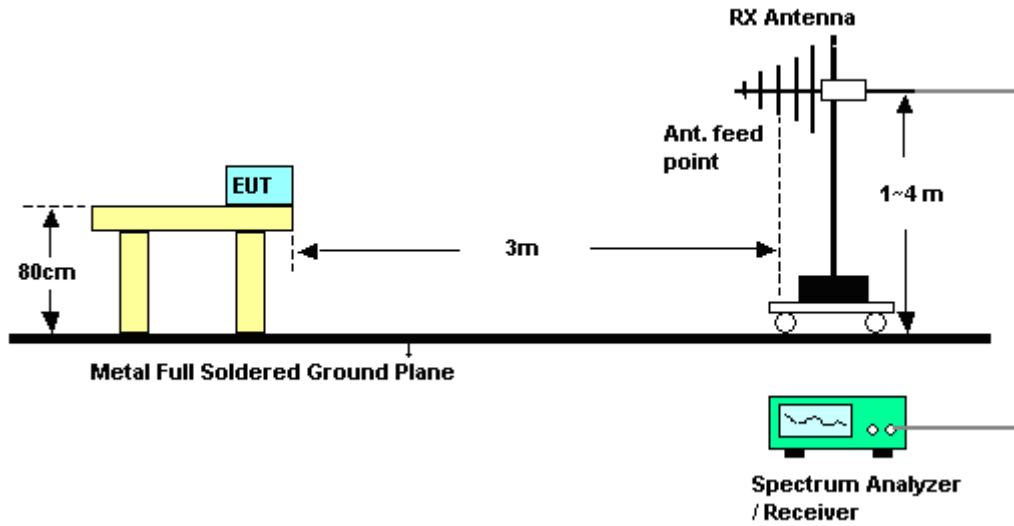
3.1.2 Measuring Instruments

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 :	20~21°C
Test Band :	802.11a	Relative Humidity :	49~50%
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	55.35	-18.65	74	47.26	34.49	8.07	34.47	103	13	Peak
5150	38.13	-15.87	54	30.04	34.49	8.07	34.47	103	13	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	60.28	-13.72	74	52.19	34.49	8.07	34.47	166	296	Peak
5150	41.85	-12.15	54	33.76	34.49	8.07	34.47	166	296	Average

Test Mode :	Mode 3	Temperature :	20~21°C
Test Band :	802.11a	Relative Humidity :	49~50%
Test Channel :	44	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	49.43	-24.57	74	41.02	34.61	8.23	34.43	100	17	Peak
5350	37.79	-16.21	54	29.38	34.61	8.23	34.43	100	17	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	49.22	-24.78	74	40.81	34.61	8.23	34.43	190	285	Peak
5350	37.87	-16.13	54	29.46	34.61	8.23	34.43	190	285	Average



Test Mode :	Mode 4	Temperature :	20~21°C
Test Band :	802.11a	Relative Humidity :	49~50%
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	49.47	-24.53	74	41.38	34.49	8.07	34.47	192	307	Peak
5150	38.06	-15.94	54	29.97	34.49	8.07	34.47	192	307	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	50.28	-23.72	74	42.19	34.49	8.07	34.47	103	233	Peak
5150	38.01	-15.99	54	29.92	34.49	8.07	34.47	103	233	Average

Test Mode :	Mode 5	Temperature :	20~21°C
Test Band :	802.11n(a) (BW 20MHz)	Relative Humidity :	49~50%
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	49.66	-24.34	74	41.57	34.49	8.07	34.47	100	360	Peak
5150	37.94	-16.06	54	29.85	34.49	8.07	34.47	100	360	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	52.22	-21.78	74	44.13	34.49	8.07	34.47	136	295	Peak
5150	39.69	-14.31	54	31.6	34.49	8.07	34.47	136	295	Average



Test Mode :	Mode 7	Temperature :	20~21°C
Test Band :	802.11n(a) (BW 20MHz)	Relative Humidity :	49~50%
Test Channel :	44	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	49.27	-24.73	74	40.86	34.61	8.23	34.43	104	302	Peak
5350	37.85	-16.15	54	29.44	34.61	8.23	34.43	104	302	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	49.57	-24.43	74	41.16	34.61	8.23	34.43	137	293	Peak
5350	37.87	-16.13	54	29.46	34.61	8.23	34.43	137	293	Average

Test Mode :	Mode 8	Temperature :	20~21°C
Test Band :	802.11n(a) (BW 40MHz)	Relative Humidity :	49~50%
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	56.42	-17.58	74	48.33	34.49	8.07	34.47	113	17	Peak
5150	40.57	-13.43	54	32.48	34.49	8.07	34.47	113	17	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	65.56	-8.44	74	57.47	34.49	8.07	34.47	108	295	Peak
5150	46.5	-7.5	54	38.41	34.49	8.07	34.47	108	295	Average



Test Mode :	Mode 9	Temperature :	20~21°C
Test Band :	802.11n(a) (BW 40MHz)	Relative Humidity :	49~50%
Test Channel :	44	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	49.26	-24.74	74	40.85	34.61	8.23	34.43	104	305	Peak
5350	38.11	-15.89	54	29.7	34.61	8.23	34.43	104	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	49.89	-24.11	74	41.48	34.61	8.23	34.43	138	294	Peak
5350	38.15	-15.85	54	29.74	34.61	8.23	34.43	138	294	Average

Test Mode :	Mode 10	Temperature :	20~21°C
Test Band :	802.11a	Relative Humidity :	49~50%
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	54.7	-19.3	74	46.61	34.49	8.07	34.47	100	15	Peak
5150	38.63	-15.37	54	30.54	34.49	8.07	34.47	100	15	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	61.84	-12.16	74	53.75	34.49	8.07	34.47	150	296	Peak
5150	42.84	-11.16	54	34.75	34.49	8.07	34.47	150	296	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.

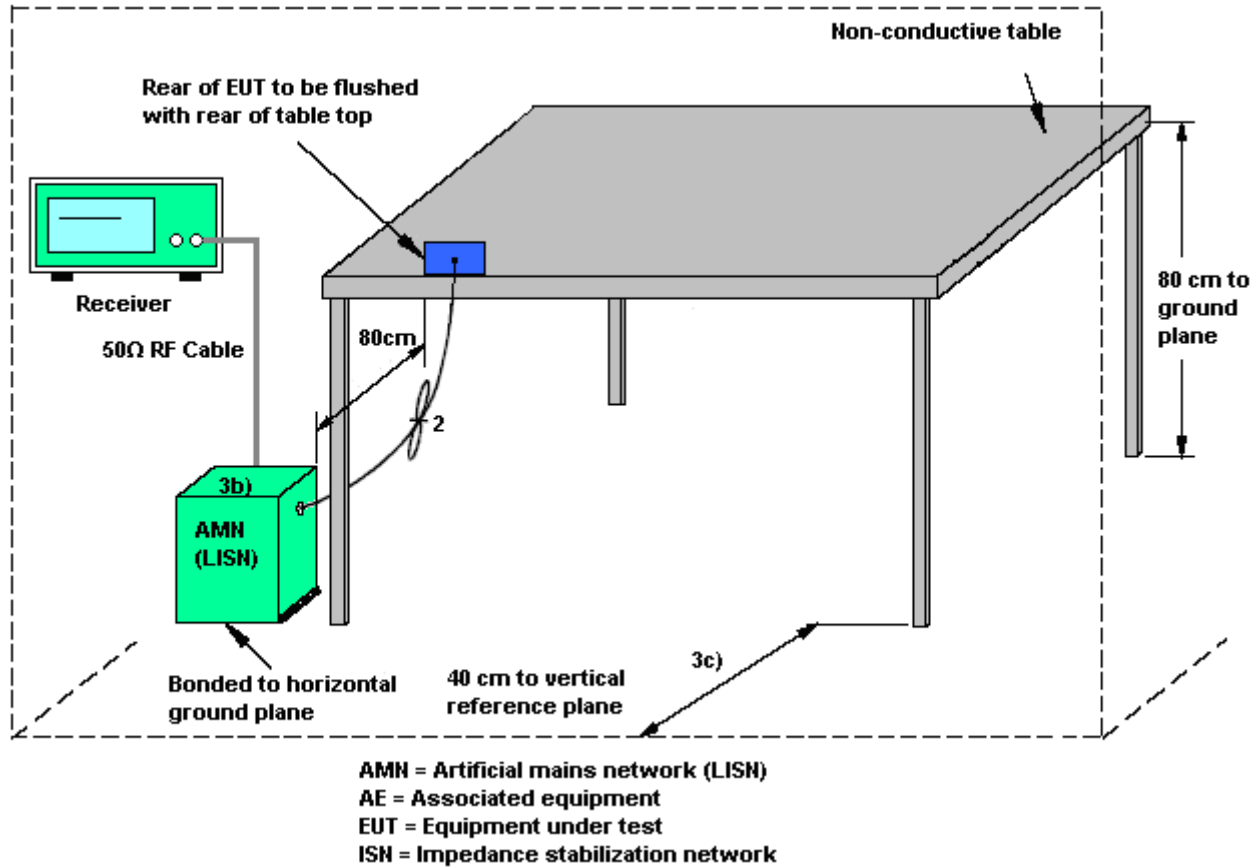
3.2.2 Measuring Instruments

See list of measuring instruments of this test report.

3.2.3 Test Procedures

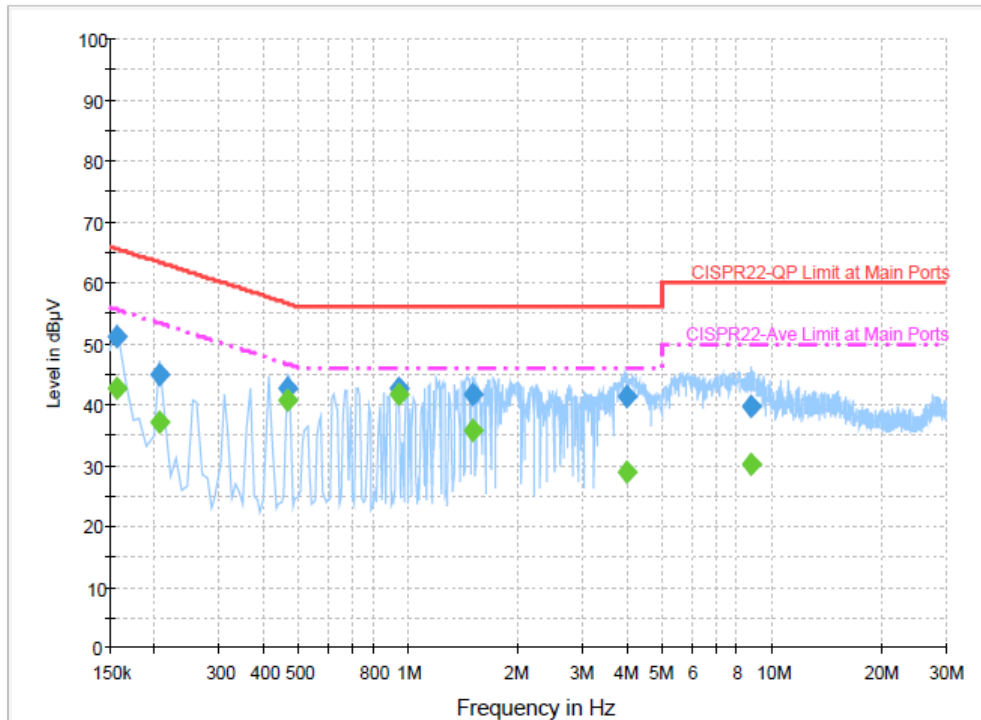
1. Please follow the guidelines in ANSI C63.4-2003.
2. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
3. Connect EUT to the power mains through a line impedance stabilization network (LISN).
4. All 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 :	22~24°C
Test Engineer :	Hayden Wu	Relative Humidity :	42~45%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	WLAN 1 (2.4G) Link + WLAN 2 (2.4G) Link + LAN Link + Adapter 1		
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Final Result 1

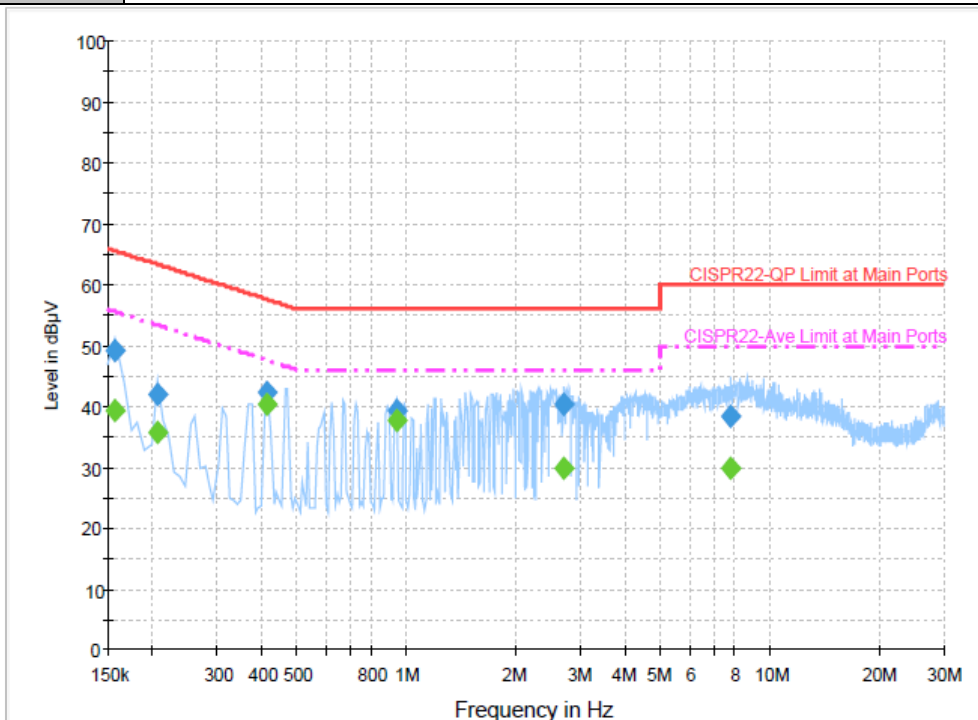
Frequency (MHz)	QuasiPeak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.158000	51.1	Off	L1	19.5	14.5	65.6
0.206000	44.8	Off	L1	19.6	18.6	63.4
0.462000	42.8	Off	L1	19.4	13.9	56.7
0.942000	42.5	Off	L1	19.4	13.5	56.0
1.494000	41.7	Off	L1	19.5	14.3	56.0
3.966000	41.2	Off	L1	19.5	14.8	56.0
8.718000	39.8	Off	L1	19.6	20.2	60.0

Final Result 2

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.158000	42.8	Off	L1	19.5	12.8	55.6
0.206000	37.1	Off	L1	19.6	16.3	53.4
0.462000	40.8	Off	L1	19.4	5.9	46.7
0.942000	41.6	Off	L1	19.4	4.6	46.0
1.494000	35.8	Off	L1	19.5	10.2	46.0
3.966000	28.7	Off	L1	19.5	17.3	46.0
8.718000	30.3	Off	L1	19.6	19.7	50.0



Test Mode :	Mode 1	Temperature :	22~24°C
Test Engineer :	Hayden Wu	Relative Humidity :	42~45%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	WLAN 1 (2.4G) Link + WLAN 2 (2.4G) Link + LAN Link + Adapter 1		
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)
0.158000	49.1	Off	N	19.5	16.5	65.6
0.206000	41.9	Off	N	19.5	21.5	63.4
0.414000	42.1	Off	N	19.4	15.5	57.6
0.934000	39.4	Off	N	19.4	16.6	56.0
2.702000	40.2	Off	N	19.5	15.8	56.0
7.750000	38.2	Off	N	19.6	21.8	60.0

Final Result 2

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.158000	39.2	Off	N	19.5	16.4	55.6
0.206000	35.6	Off	N	19.5	17.8	53.4
0.414000	40.5	Off	N	19.4	7.1	47.6
0.934000	37.7	Off	N	19.4	8.3	46.0
2.702000	29.8	Off	N	19.5	16.2	46.0
7.750000	29.9	Off	N	19.6	20.1	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.
- (2) 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.

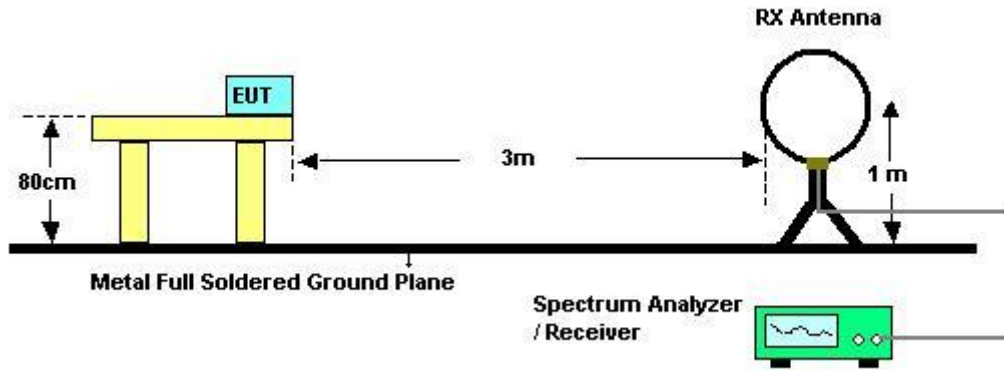


3.3.3 Test Procedures

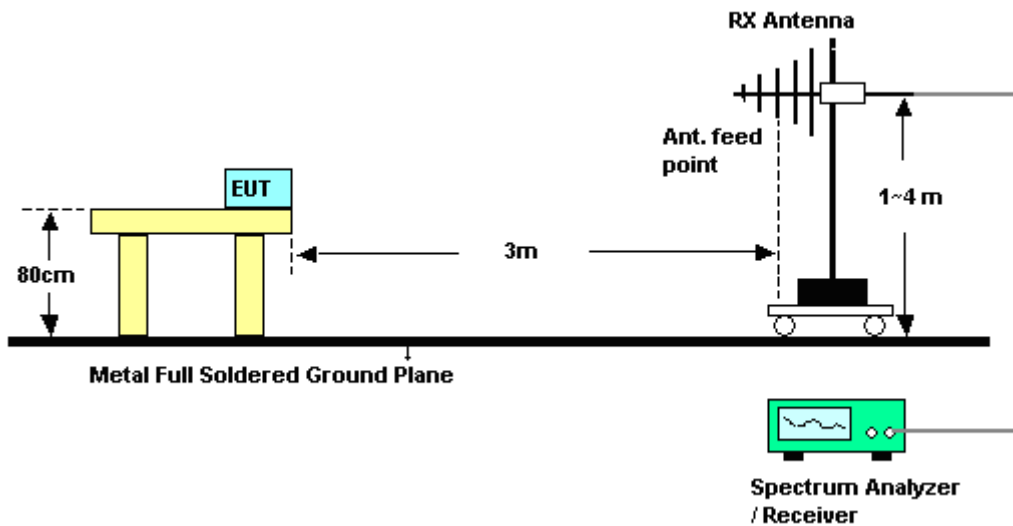
1. The testing follows the guidelines in FCC Public Notice DA 02-2138, (Measurement Guidelines of UNII)
2. The EUT was placed on a rotatable table top 0.8 meter above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna 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 30MH





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

Temperature	20~21°C	Humidity	49~50%
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

Test Mode :	Mode 1	Temperature :	20~21°C
Test Channel :	36	Relative Humidity :	49~50%
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
51.33	26.48	-13.52	40	49.57	7.77	0.84	31.7	-	-	Peak
122.61	31.35	-12.15	43.5	49.66	12.06	1.31	31.68	100	236	Peak
250.05	26.13	-19.87	46	42.94	12.77	1.92	31.5	-	-	Peak
629.7	31.11	-14.89	46	38.45	20.29	3.34	30.97	-	-	Peak
673.8	26.94	-19.06	46	33.75	20.64	3.48	30.93	-	-	Peak
897.8	30.97	-15.03	46	34.36	23.16	4.15	30.7	-	-	Peak
5150	38.13	-15.87	54	30.04	34.49	8.07	34.47	103	13	Average
5150	55.35	-18.65	74	47.26	34.49	8.07	34.47	103	13	Peak
5180	100.09	-	-	91.94	34.51	8.1	34.46	103	13	Peak
5180	89.45	-	-	81.3	34.51	8.1	34.46	103	13	Average
5350	37.27	-16.73	54	28.86	34.61	8.23	34.43	103	13	Average
5350	48.45	-25.55	74	40.04	34.61	8.23	34.43	103	13	Peak
8836	54.53	-19.47	74	43.21	36.2	10.29	35.17	100	237	Peak
8836	41.02	-12.98	54	29.7	36.2	10.29	35.17	100	237	Average
10360	39.88	-28.42	68.3	72.48	-8.72	11.07	34.95	100	0	Peak



Test Mode :	Mode 1	Temperature :	20~21°C
Test Channel :	36	Relative Humidity :	49~50%
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
35.94	35.51	-4.49	40	50.32	16.2	0.69	31.7	100	94	Peak
64.56	33.38	-6.62	40	57.88	6.26	0.94	31.7	-	-	Peak
109.65	37.39	-6.11	43.5	56.62	11.24	1.22	31.69	-	-	Peak
464.5	21.17	-24.83	46	32.04	17.44	2.83	31.14	-	-	Peak
626.9	28	-18	46	35.37	20.27	3.33	30.97	-	-	Peak
897.8	29.85	-16.15	46	33.24	23.16	4.15	30.7	-	-	Peak
5150	41.85	-12.15	54	33.76	34.49	8.07	34.47	166	296	Average
5150	60.28	-13.72	74	52.19	34.49	8.07	34.47	166	296	Peak
5180	109.55	-	-	101.4	34.51	8.1	34.46	166	296	Peak
5180	99.31	-	-	91.16	34.51	8.1	34.46	166	296	Average
5350	37.79	-16.21	54	29.38	34.61	8.23	34.43	166	296	Average
5350	48.41	-25.59	74	40	34.61	8.23	34.43	166	296	Peak
8924	54.48	-19.52	74	43.11	36.25	10.31	35.19	100	73	Peak
8924	42.08	-11.92	54	30.71	36.25	10.31	35.19	100	73	Average
10360	45.37	-22.93	68.3	77.97	-8.72	11.07	34.95	100	0	Peak
15540	40.85	-33.15	74	68.63	-7.19	14.34	34.93	100	0	Peak



Test Mode :	Mode 2	Temperature :	20~21°C
Test Channel :	40	Relative Humidity :	49~50%
Test Engineer :	Kay Wu	Polarization :	Horizontal
Remark :	5200 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
51.33	28.48	-11.52	40	51.57	7.77	0.84	31.7	100	141	Peak
122.61	29.35	-14.15	43.5	47.66	12.06	1.31	31.68	-	-	Peak
238.98	24.08	-21.92	46	42.36	11.37	1.87	31.52	-	-	Peak
405.7	23.23	-22.77	46	35.61	16.23	2.58	31.19	-	-	Peak
609.4	29.57	-16.43	46	37.14	20.14	3.28	30.99	-	-	Peak
897.1	30.13	-15.87	46	33.53	23.15	4.15	30.7	-	-	Peak
5150	50.33	-23.67	74	42.24	34.49	8.07	34.47	100	14	Peak
5150	37.84	-16.16	54	29.75	34.49	8.07	34.47	100	14	Average
5200	99.56	-	-	91.39	34.52	8.11	34.46	100	14	Peak
5200	88.98	-	-	80.81	34.52	8.11	34.46	100	14	Average
5350	37.79	-16.21	54	29.38	34.61	8.23	34.43	100	14	Average
5350	49.1	-24.9	74	40.69	34.61	8.23	34.43	100	14	Peak
8876	54.61	-19.39	74	43.26	36.22	10.3	35.17	100	63	Peak
8876	42.04	-11.96	54	30.69	36.22	10.3	35.17	100	63	Average
10400	40.14	-28.16	68.3	72.63	-8.66	11.07	34.9	100	0	Peak
15600	40.43	-33.57	74	67.82	-6.7	14.29	34.98	100	0	Peak



Test Mode :	Mode 2	Temperature :	20~21°C
Test Channel :	40	Relative Humidity :	49~50%
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
53.49	31.53	-8.47	40	55.02	7.36	0.85	31.7	100	55	Peak
106.41	31.15	-12.35	43.5	50.67	10.97	1.2	31.69	-	-	Peak
127.74	33.88	-9.62	43.5	52.4	11.79	1.36	31.67	-	-	Peak
416.2	21.11	-24.89	46	33.2	16.45	2.64	31.18	-	-	Peak
525.4	23.24	-22.76	46	32.63	18.66	3.02	31.07	-	-	Peak
875.4	28.81	-17.19	46	32.5	22.95	4.06	30.7	-	-	Peak
5150	38.73	-15.27	54	30.64	34.49	8.07	34.47	190	285	Average
5150	50.02	-23.98	74	41.93	34.49	8.07	34.47	190	285	Peak
5220	107.87	-	-	99.68	34.53	8.12	34.46	190	285	Peak
5220	97.28	-	-	89.09	34.53	8.12	34.46	190	285	Average
5350	37.87	-16.13	54	29.46	34.61	8.23	34.43	190	285	Average
5350	49.22	-24.78	74	40.81	34.61	8.23	34.43	190	285	Peak
8908	55	-19	74	43.63	36.24	10.31	35.18	100	66	Peak
8908	41.68	-12.32	54	30.31	36.24	10.31	35.18	100	66	Average
10440	45.32	-22.98	68.3	77.72	-8.6	11.08	34.88	100	0	Peak
15660	39.96	-34.04	74	67.05	-6.28	14.25	35.06	100	0	Peak



Test Mode :	Mode 3	Temperature :	20~21°C
Test Channel :	44	Relative Humidity :	49~50%
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
33.24	28.15	-11.85	40	41.35	17.84	0.66	31.7	100	196	Peak
97.5	28.28	-15.22	43.5	48.78	10.05	1.15	31.7	-	-	Peak
145.02	30.1	-13.4	43.5	48.88	11.43	1.44	31.65	-	-	Peak
610.1	29.66	-16.34	46	37.23	20.14	3.28	30.99	-	-	Peak
674.5	26.91	-19.09	46	33.72	20.64	3.48	30.93	-	-	Peak
875.4	31.61	-14.39	46	35.3	22.95	4.06	30.7	-	-	Peak
5150	38.17	-15.83	54	30.08	34.49	8.07	34.47	100	17	Average
5150	49.15	-24.85	74	41.06	34.49	8.07	34.47	100	17	Peak
5220	100.64	-	-	92.45	34.53	8.12	34.46	100	17	Peak
5220	89.65	-	-	81.46	34.53	8.12	34.46	100	17	Average
5350	37.79	-16.21	54	29.38	34.61	8.23	34.43	100	17	Average
5350	49.43	-24.57	74	41.02	34.61	8.23	34.43	100	17	Peak
8862	54.4	-19.6	74	43.07	36.21	10.29	35.17	100	32	Peak
8862	41.09	-12.91	54	29.76	36.21	10.29	35.17	100	32	Average
10440	41.45	-26.85	68.3	73.85	-8.6	11.08	34.88	100	0	Peak
15660	41.15	-32.85	74	68.31	-6.35	14.25	35.06	100	0	Peak



Test Mode :	Mode 3	Temperature :	20~21°C
Test Channel :	44	Relative Humidity :	49~50%
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
34.05	35.14	-4.86	40	48.88	17.29	0.67	31.7	100	27	Peak
47.82	34.11	-5.89	40	55.59	9.45	0.77	31.7	-	-	Peak
92.37	32.46	-11.04	43.5	53.87	9.17	1.12	31.7	-	-	Peak
531	23.54	-22.46	46	32.83	18.75	3.03	31.07	-	-	Peak
802.6	26.25	-19.75	46	30.86	22.24	3.85	30.7	-	-	Peak
875.4	30.34	-15.66	46	34.03	22.95	4.06	30.7	-	-	Peak
5150	38.73	-15.27	54	30.64	34.49	8.07	34.47	190	285	Average
5150	50.02	-23.98	74	41.93	34.49	8.07	34.47	190	285	Peak
5220	107.87	-	-	99.68	34.53	8.12	34.46	190	285	Peak
5220	97.28	-	-	89.09	34.53	8.12	34.46	190	285	Average
5350	37.87	-16.13	54	29.46	34.61	8.23	34.43	190	285	Average
5350	49.22	-24.78	74	40.81	34.61	8.23	34.43	190	285	Peak
8908	55	-19	74	43.63	36.24	10.31	35.18	100	66	Peak
8908	41.68	-12.32	54	30.31	36.24	10.31	35.18	100	66	Average
10440	45.32	-22.98	68.3	77.72	-8.6	11.08	34.88	100	0	Peak
15660	39.96	-34.04	74	67.05	-6.28	14.25	35.06	100	0	Peak



Test Mode :	Mode 4	Temperature :	20~21°C
Test Channel :	36	Relative Humidity :	49~50%
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
46.74	29.1	-10.9	40	50.1	9.94	0.76	31.7	100	55	Peak
126.66	31.68	-11.82	43.5	50.19	11.8	1.36	31.67	-	-	Peak
168.78	28.07	-15.43	43.5	48.41	9.74	1.55	31.63	-	-	Peak
609.4	27.57	-18.43	46	35.14	20.14	3.28	30.99	-	-	Peak
696.9	28.47	-17.53	46	35.01	20.82	3.54	30.9	-	-	Peak
874.7	30.47	-15.53	46	34.17	22.94	4.06	30.7	-	-	Peak
5150	38.06	-15.94	54	29.97	34.49	8.07	34.47	192	307	Average
5150	49.47	-24.53	74	41.38	34.49	8.07	34.47	192	307	Peak
5180	98.89	-	-	90.74	34.51	8.1	34.46	192	307	Peak
5180	88.42	-	-	80.27	34.51	8.1	34.46	192	307	Average
5350	37.49	-16.51	54	29.08	34.61	8.23	34.43	192	307	Average
5350	48.91	-25.09	74	40.5	34.61	8.23	34.43	192	307	Peak
8860	54.12	-19.88	74	42.79	36.21	10.29	35.17	100	56	Peak
8860	41.43	-12.57	54	30.1	36.21	10.29	35.17	100	56	Average
10360	40.29	-28.01	68.3	72.89	-8.72	11.07	34.95	100	0	Peak
15540	39.54	-34.46	74	67.25	-7.12	14.34	34.93	100	0	Peak



Test Mode :	Mode 4	Temperature :	20~21°C
Test Channel :	36	Relative Humidity :	49~50%
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
47.82	35.11	-4.89	40	56.59	9.45	0.77	31.7	100	57	Peak
64.29	29.71	-10.29	40	54.29	6.19	0.93	31.7	-	-	Peak
85.62	33.55	-6.45	40	55.96	8.23	1.06	31.7	-	-	Peak
525.4	24.24	-21.76	46	33.63	18.66	3.02	31.07	-	-	Peak
618.5	27.67	-18.33	46	35.13	20.21	3.31	30.98	-	-	Peak
688.5	26.35	-19.65	46	32.99	20.75	3.52	30.91	-	-	Peak
5150	38.01	-15.99	54	29.92	34.49	8.07	34.47	103	233	Average
5150	50.28	-23.72	74	42.19	34.49	8.07	34.47	103	233	Peak
5180	99.73	-	-	91.58	34.51	8.1	34.46	103	233	Peak
5180	88.91	-	-	80.76	34.51	8.1	34.46	103	233	Average
5350	37.29	-16.71	54	28.88	34.61	8.23	34.43	103	233	Average
5350	49.63	-24.37	74	41.22	34.61	8.23	34.43	103	233	Peak
8860	54.53	-19.47	74	43.2	36.21	10.29	35.17	100	75	Peak
8860	42.55	-11.45	54	31.22	36.21	10.29	35.17	100	75	Average
10360	40.63	-27.67	68.3	73.26	-8.74	11.06	34.95	100	0	Peak



Test Mode :	Mode 5	Temperature :	20~21°C
Test Channel :	36	Relative Humidity :	49~50%
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
53.49	25.09	-14.91	40	48.58	7.36	0.85	31.7	-	-	Peak
126.66	31.2	-12.3	43.5	49.71	11.8	1.36	31.67	100	117	Peak
178.77	24.42	-19.08	43.5	45.31	9.13	1.6	31.62	-	-	Peak
500.2	25.56	-20.44	46	35.54	18.18	2.94	31.1	-	-	Peak
631.8	29.87	-16.13	46	37.18	20.31	3.35	30.97	-	-	Peak
895.7	31.58	-14.42	46	35.01	23.13	4.14	30.7	-	-	Peak
5150	37.94	-16.06	54	29.85	34.49	8.07	34.47	100	360	Average
5150	49.66	-24.34	74	41.57	34.49	8.07	34.47	100	360	Peak
5180	99.74	-	-	91.59	34.51	8.1	34.46	100	360	Peak
5180	87.67	-	-	79.52	34.51	8.1	34.46	100	360	Average
5350	37.76	-16.24	54	29.35	34.61	8.23	34.43	100	360	Average
5350	48.39	-25.61	74	39.98	34.61	8.23	34.43	100	360	Peak
8926	54.99	-19.01	74	43.62	36.25	10.31	35.19	100	52	Peak
8926	41.49	-12.51	54	30.12	36.25	10.31	35.19	100	52	Average



Test Mode :	Mode 5	Temperature :	20~21°C
Test Channel :	36	Relative Humidity :	49~50%
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
30.54	33.76	-6.24	40	45.86	18.95	0.65	31.7	100	278	Peak
47.82	32.02	-7.98	40	53.5	9.45	0.77	31.7	-	-	Peak
95.34	31.75	-11.75	43.5	52.71	9.61	1.13	31.7	-	-	Peak
531	24.54	-21.46	46	33.83	18.75	3.03	31.07	-	-	Peak
610.1	29.27	-16.73	46	36.84	20.14	3.28	30.99	-	-	Peak
897.8	30.88	-15.12	46	34.27	23.16	4.15	30.7	-	-	Peak
5150	39.69	-14.31	54	31.6	34.49	8.07	34.47	136	295	Average
5150	52.22	-21.78	74	44.13	34.49	8.07	34.47	136	295	Peak
5180	108.22	-	-	100.07	34.51	8.1	34.46	136	295	Peak
5180	96.68	-	-	88.53	34.51	8.1	34.46	136	295	Average
5350	37.85	-16.15	54	29.44	34.61	8.23	34.43	136	295	Average
5350	49.65	-24.35	74	41.24	34.61	8.23	34.43	136	295	Peak
8862	54.4	-19.6	74	43.07	36.21	10.29	35.17	100	63	Peak
8862	41.73	-12.27	54	30.4	36.21	10.29	35.17	100	63	Average
10360	40.33	-27.97	68.3	72.93	-8.72	11.07	34.95	100	0	Peak



Test Mode :	Mode 6	Temperature :	20~21°C
Test Channel :	40	Relative Humidity :	49~50%
Test Engineer :	Kay Wu	Polarization :	Horizontal
Remark :	5200 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
33.24	28.15	-11.85	40	41.35	17.84	0.66	31.7	-	-	Peak
120.18	31.98	-11.52	43.5	50.15	12.23	1.28	31.68	100	137	Peak
168.78	28.07	-15.43	43.5	48.41	9.74	1.55	31.63	-	-	Peak
632.5	29.33	-16.67	46	36.63	20.32	3.35	30.97	-	-	Peak
673.8	27.94	-18.06	46	34.75	20.64	3.48	30.93	-	-	Peak
895	31.6	-14.4	46	35.03	23.13	4.14	30.7	-	-	Peak
5150	37.9	-16.1	54	29.81	34.49	8.07	34.47	118	305	Average
5150	50.3	-23.7	74	42.21	34.49	8.07	34.47	118	305	Peak
5200	101.73	-	-	93.56	34.52	8.11	34.46	118	305	Peak
5200	90.94	-	-	82.77	34.52	8.11	34.46	118	305	Average
5350	37.8	-16.2	54	29.39	34.61	8.23	34.43	118	305	Average
5350	49.65	-24.35	74	41.24	34.61	8.23	34.43	118	305	Peak
8870	54.43	-19.57	74	43.08	36.22	10.3	35.17	100	37	Peak
8870	41.08	-12.92	54	29.73	36.22	10.3	35.17	100	37	Average
10400	37.36	-30.94	68.3	69.83	-8.64	11.07	34.9	100	0	Peak



Test Mode :	Mode 6	Temperature :	20~21°C
Test Channel :	40	Relative Humidity :	49~50%
Test Engineer :	Kay Wu	Polarization :	Vertical
Remark :	5200 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
34.05	35.14	-4.86	40	48.88	17.29	0.67	31.7	100	131	Peak
42.69	34.16	-5.84	40	52.96	12.18	0.72	31.7	-	-	Peak
64.29	30.71	-9.29	40	55.29	6.19	0.93	31.7	-	-	Peak
618.5	26.67	-19.33	46	34.13	20.21	3.31	30.98	-	-	Peak
825	26.39	-19.61	46	30.72	22.46	3.91	30.7	-	-	Peak
897.8	29.85	-16.15	46	33.24	23.16	4.15	30.7	-	-	Peak
5150	38.72	-15.28	54	30.63	34.49	8.07	34.47	187	284	Average
5150	49.96	-24.04	74	41.87	34.49	8.07	34.47	187	284	Peak
5200	107.9	-	-	99.73	34.52	8.11	34.46	187	284	Peak
5200	97.01	-	-	88.84	34.52	8.11	34.46	187	284	Average
5350	37.85	-16.15	54	29.44	34.61	8.23	34.43	187	284	Average
5350	49.47	-24.53	74	41.06	34.61	8.23	34.43	187	284	Peak
8894	54.72	-19.28	74	43.37	36.23	10.3	35.18	100	196	Peak
8894	41.46	-12.54	54	30.11	36.23	10.3	35.18	100	196	Average
10400	43.19	-25.11	68.3	75.66	-8.64	11.07	34.9	100	0	Peak



Test Mode :	Mode 7	Temperature :	20~21°C
Test Channel :	44	Relative Humidity :	49~50%
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
30.54	26.03	-13.97	40	38.13	18.95	0.65	31.7	-	-	Peak
122.61	30.35	-13.15	43.5	48.66	12.06	1.31	31.68	100	174	Peak
178.77	24.42	-19.08	43.5	45.31	9.13	1.6	31.62	-	-	Peak
632.5	29.33	-16.67	46	36.63	20.32	3.35	30.97	-	-	Peak
673.8	26.94	-19.06	46	33.75	20.64	3.48	30.93	-	-	Peak
875.4	32.94	-13.06	46	36.63	22.95	4.06	30.7	-	-	Peak
5150	38.06	-15.94	54	29.97	34.49	8.07	34.47	104	302	Average
5150	50.02	-23.98	74	41.93	34.49	8.07	34.47	104	302	Peak
5220	104.54	-	-	96.34	34.53	8.12	34.45	104	302	Peak
5220	94.48	-	-	86.29	34.53	8.12	34.46	104	302	Average
5350	37.85	-16.15	54	29.44	34.61	8.23	34.43	104	302	Average
5350	49.27	-24.73	74	40.86	34.61	8.23	34.43	104	302	Peak
8884	54.94	-19.06	74	43.58	36.23	10.3	35.17	100	63	Peak
8884	41.1	-12.9	54	29.74	36.23	10.3	35.17	100	63	Average
10440	37.61	-30.69	68.3	69.99	-8.58	11.08	34.88	100	0	Peak



Test Mode :	Mode 7	Temperature :	20~21°C
Test Channel :	44	Relative Humidity :	49~50%
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
47.82	35.02	-4.98	40	56.5	9.45	0.77	31.7	100	156	Peak
53.49	34.53	-5.47	40	58.02	7.36	0.85	31.7	-	-	Peak
107.49	33.51	-9.99	43.5	52.93	11.06	1.21	31.69	-	-	Peak
525.4	24.24	-21.76	46	33.63	18.66	3.02	31.07	-	-	Peak
626.9	28	-18	46	35.37	20.27	3.33	30.97	-	-	Peak
897.8	28.85	-17.15	46	32.24	23.16	4.15	30.7	-	-	Peak
5150	39.86	-14.14	54	31.77	34.49	8.07	34.47	137	293	Average
5150	51.68	-22.32	74	43.59	34.49	8.07	34.47	137	293	Peak
5220	111.43	-	-	103.24	34.53	8.12	34.46	137	293	Peak
5220	99.48	-	-	91.29	34.53	8.12	34.46	137	293	Average
5350	37.87	-16.13	54	29.46	34.61	8.23	34.43	137	293	Average
5350	49.57	-24.43	74	41.16	34.61	8.23	34.43	137	293	Peak
8860	54.59	-19.41	74	43.26	36.21	10.29	35.17	100	122	Peak
8860	41.43	-12.57	54	30.1	36.21	10.29	35.17	100	122	Average
10440	43.43	-24.87	68.3	75.76	-8.56	11.08	34.85	100	0	Peak



Test Mode :	Mode 8	Temperature :	20~21°C
Test Channel :	38	Relative Humidity :	49~50%
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
53.49	26.09	-13.91	40	49.58	7.36	0.85	31.7	-	-	Peak
126.66	30.2	-13.3	43.5	48.71	11.8	1.36	31.67	100	67	Peak
189.57	23.11	-20.39	43.5	44.14	8.92	1.66	31.61	-	-	Peak
609.4	29.57	-16.43	46	37.14	20.14	3.28	30.99	-	-	Peak
673.8	26.94	-19.06	46	33.75	20.64	3.48	30.93	-	-	Peak
874.7	30.47	-15.53	46	34.17	22.94	4.06	30.7	-	-	Peak
5150	40.57	-13.43	54	32.48	34.49	8.07	34.47	113	17	Average
5150	56.42	-17.58	74	48.33	34.49	8.07	34.47	113	17	Peak
5190	98.32	-	-	90.17	34.51	8.1	34.46	113	17	Peak
5190	85.08	-	-	76.93	34.51	8.1	34.46	113	17	Average
5350	38.16	-15.84	54	29.75	34.61	8.23	34.43	113	17	Average
5350	49.48	-24.52	74	41.07	34.61	8.23	34.43	113	17	Peak
8668	54.5	-19.5	74	43.3	36.1	10.23	35.13	100	233	Peak
8668	40.63	-13.37	54	29.43	36.1	10.23	35.13	100	233	Average



Test Mode :	Mode 8	Temperature :	20~21°C
Test Channel :	38	Relative Humidity :	49~50%
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
34.05	35.14	-4.86	40	48.88	17.29	0.67	31.7	100	167	Peak
47.82	34.11	-5.89	40	55.59	9.45	0.77	31.7	-	-	Peak
85.62	34.55	-5.45	40	56.96	8.23	1.06	31.7	-	-	Peak
522.6	25.18	-20.82	46	34.65	18.6	3.01	31.08	-	-	Peak
624.1	29.6	-16.4	46	37	20.25	3.33	30.98	-	-	Peak
875.4	30.34	-15.66	46	34.03	22.95	4.06	30.7	-	-	Peak
5150	46.5	-7.5	54	38.41	34.49	8.07	34.47	108	295	Average
5150	65.56	-8.44	74	57.47	34.49	8.07	34.47	108	295	Peak
5190	105	-	-	96.85	34.51	8.1	34.46	108	295	Peak
5190	92.97	-	-	84.82	34.51	8.1	34.46	108	295	Average
5350	38.19	-15.81	54	29.78	34.61	8.23	34.43	108	295	Average
5350	49.33	-24.67	74	40.92	34.61	8.23	34.43	108	295	Peak
8838	54.62	-19.38	74	43.3	36.2	10.29	35.17	100	278	Peak
8838	41.73	-12.27	54	30.41	36.2	10.29	35.17	100	278	Average
10380	38.92	-29.38	68.3	71.46	-8.69	11.07	34.92	100	0	Peak



Test Mode :	Mode 9	Temperature :	20~21°C
Test Channel :	44	Relative Humidity :	49~50%
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
33.24	28.15	-11.85	40	41.35	17.84	0.66	31.7	-	-	Peak
118.02	31.8	-11.7	43.5	50.16	12.05	1.27	31.68	100	31	Peak
145.02	30.1	-13.4	43.5	48.88	11.43	1.44	31.65	-	-	Peak
500.2	25.56	-20.44	46	35.54	18.18	2.94	31.1	-	-	Peak
674.5	26.91	-19.09	46	33.72	20.64	3.48	30.93	-	-	Peak
895.7	31.58	-14.42	46	35.01	23.13	4.14	30.7	-	-	Peak
5150	38.42	-15.58	54	30.33	34.49	8.07	34.47	104	305	Average
5150	50.73	-23.27	74	42.64	34.49	8.07	34.47	104	305	Peak
5220	99.67	-	-	91.47	34.53	8.12	34.45	104	305	Peak
5220	87.43	-	-	79.24	34.53	8.12	34.46	104	305	Average
5350	38.11	-15.89	54	29.7	34.61	8.23	34.43	104	305	Average
5350	49.26	-24.74	74	40.85	34.61	8.23	34.43	104	305	Peak
8860	55.11	-18.89	74	43.78	36.21	10.29	35.17	100	33	Peak
8860	42.07	-11.93	54	30.74	36.21	10.29	35.17	100	33	Average



Test Mode :	Mode 9	Temperature :	20~21°C
Test Channel :	44	Relative Humidity :	49~50%
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
36.21	34.66	-5.34	40	49.47	16.2	0.69	31.7	100	315	Peak
53.49	33.53	-6.47	40	57.02	7.36	0.85	31.7	-	-	Peak
64.56	33.38	-6.62	40	57.88	6.26	0.94	31.7	-	-	Peak
610.1	26.36	-19.64	46	33.93	20.14	3.28	30.99	-	-	Peak
795.6	24.84	-21.16	46	29.56	22.15	3.84	30.71	-	-	Peak
897.8	29.85	-16.15	46	33.24	23.16	4.15	30.7	-	-	Peak
5150	40.7	-13.3	54	32.61	34.49	8.07	34.47	138	294	Average
5150	53.1	-20.9	74	45.01	34.49	8.07	34.47	138	294	Peak
5220	103.62	-	-	95.43	34.53	8.12	34.46	138	294	Peak
5220	92.19	-	-	84	34.53	8.12	34.46	138	294	Average
5350	38.15	-15.85	54	29.74	34.61	8.23	34.43	138	294	Average
5350	49.89	-24.11	74	41.48	34.61	8.23	34.43	138	294	Peak
8884	54.47	-19.53	74	43.11	36.23	10.3	35.17	100	123	Peak
8884	40.36	-13.64	54	29	36.23	10.3	35.17	100	123	Average
10440	40.84	-27.46	68.3	73.24	-8.6	11.08	34.88	100	0	Peak



Test Mode :	Mode 10	Temperature :	20~21°C
Test Channel :	36	Relative Humidity :	49~50%
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
47.82	27.97	-12.03	40	49.45	9.45	0.77	31.7	-	-	Peak
132.87	31.84	-11.66	43.5	50.38	11.75	1.38	31.67	100	67	Peak
250.05	26.13	-19.87	46	42.94	12.77	1.92	31.5	-	-	Peak
626.9	28.48	-17.52	46	35.85	20.27	3.33	30.97	-	-	Peak
673.8	27.94	-18.06	46	34.75	20.64	3.48	30.93	-	-	Peak
874.7	31.47	-14.53	46	35.17	22.94	4.06	30.7	-	-	Peak
5150	38.63	-15.37	54	30.54	34.49	8.07	34.47	100	15	Average
5150	54.7	-19.3	74	46.61	34.49	8.07	34.47	100	15	Peak
5180	100.5	-	-	92.35	34.51	8.1	34.46	100	15	Peak
5180	89.71	-	-	81.56	34.51	8.1	34.46	100	15	Average
5350	37.75	-16.25	54	29.34	34.61	8.23	34.43	100	15	Average
5350	49.53	-24.47	74	41.12	34.61	8.23	34.43	100	15	Peak
8854	55	-19	74	43.67	36.21	10.29	35.17	100	211	Peak
8854	41.44	-12.56	54	30.11	36.21	10.29	35.17	100	211	Average



Test Mode :	Mode 10	Temperature :	20~21°C
Test Channel :	36	Relative Humidity :	49~50%
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
53.49	34.53	-5.47	40	58.02	7.36	0.85	31.7	100	66	Peak
73.74	31.7	-8.3	40	55.48	6.95	0.97	31.7	-	-	Peak
127.74	32.88	-10.62	43.5	51.4	11.79	1.36	31.67	-	-	Peak
626.9	30	-16	46	37.37	20.27	3.33	30.97	-	-	Peak
696.2	27.79	-18.21	46	34.34	20.81	3.54	30.9	-	-	Peak
883.8	31.25	-14.75	46	34.84	23.02	4.09	30.7	-	-	Peak
5150	42.84	-11.16	54	34.75	34.49	8.07	34.47	150	296	Average
5150	61.84	-12.16	74	53.75	34.49	8.07	34.47	150	296	Peak
5180	109.86	-	-	101.71	34.51	8.1	34.46	150	296	Peak
5180	99.53	-	-	91.38	34.51	8.1	34.46	150	296	Average
5350	37.47	-16.53	54	29.06	34.61	8.23	34.43	150	296	Average
5350	47.97	-26.03	74	39.56	34.61	8.23	34.43	150	296	Peak
8894	54.46	-19.54	74	43.11	36.23	10.3	35.18	100	121	Peak
8894	40.72	-13.28	54	29.37	36.23	10.3	35.18	100	121	Average
10360	47.89	-20.41	68.3	80.52	-8.74	11.06	34.95	100	0	Peak
15540	53.38	-20.62	74	81.09	-7.12	14.34	34.93	100	306	Peak
15540	39.59	-14.41	54	67.3	-7.12	14.34	34.93	100	306	Average



3.4 Automatically Discontinue Transmission

3.4.1 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.

3.4.2 Measuring Instruments

See list of measuring instruments of this test report.

3.4.3 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.



3.5 Antenna Requirements

3.5.1 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.

3.5.2 Antenna Connected Construction

The antennas type used in this product is PIFA Antenna without connector and it is considered to meet antenna requirement of FCC.

3.5.3 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)
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.32 dB.GAIN	Mar. 27, 2009	Mar. 26, 2010	Radiation (03CH07-HY)
Loop Antenna	R&S	HFH2-Z2	860004/001	9 KHz~30 MHz	May 22, 2008	May 21, 2010	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				

6 Certification of TAF Accreditation



Certificate No. : L1190-100107

財團法人全國認證基金會
Taiwan Accreditation Foundation

Certificate of Accreditation

This is to certify that

Sporton International Inc.
EMC & Wireless Communications Laboratory
No.52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien,
Taiwan, R.O.C.

is accredited in respect of laboratory

Accreditation Criteria	: ISO/IEC 17025:2005
Accreditation Number	: 1190
Originally Accredited	: December 15, 2003
Effective Period	: January 10, 2010 to January 09, 2013
Accredited Scope	: Testing Field, see described in the Appendix
Specific Accreditation Program	: Accreditation Program for Designated Testing Laboratory for Commodities Inspection Accreditation Program for Telecommunication Equipment Testing Laboratory Accreditation Program for BSMI Mutual Recognition Arrangement with Foreign Authorities


Jay-San Chen
President, Taiwan Accreditation Foundation
Date : January 07, 2010

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The Appendix forms an integral part of this Certificate, which shall be invalid when use without the Appendix



Appendix A. Photographs of EUT

Please refer to Sporton report number EP9D0408 as below.



Appendix C. Product Equality Declaration

Meru Networks Inc.

894 Ross Drive Sunnyvale, CA 94089 USA
Tel: 408 431 6032 ; Fax: 408 215 5301

Federal Communications Commission
Authorization and Evaluation Division
1435 Oakland Mills Road
Columbia, MD 21046

SUBJECT: Class II Permissive Change for FCC ID: RE7-AP300

The product, Multi Radio 802.11a/b/g/n Wireless LAN Access Point, has been granted by FCC dated 10/15/2007, FCC ID: RE7-AP300. The intension of this application is to apply for Class II Permissive Change for the modification of antenna type. Except the modification above, the other portions are remained the same as previous version.

Contact Person: Srinivas Sivaprakasam
Company: Meru Networks Inc.
TEL: 408 431 6032
FAX: 408 215 5301
E-mail: ssrinivas@merunetworks.com



Appendix D. Original Report

Please refer to Sporton Report Number FZ791302A as below.