

Partial FCC RF Test Report

APPLICANT : Acer Incorporated
EQUIPMENT : Notebook Computer
BRAND NAME : Acer
MODEL NAME : Z09
MARKETING NAME : Aspire M5 series
FCC ID : HLZ-Z09A
STANDARD : FCC Part 15 Subpart E
CLASSIFICATION : (NII) Unlicensed National Information Infrastructure TX

This is a partial report which is included the Radiated Emissions test and RF Power. The product was received on Apr. 19, 2012 and completely tested on May 23, 2012. 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:



Jones Tsai / Manager



SPORTON INTERNATIONAL INC.

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FCC ID : HLZ-Z09A

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR241954C	Rev. 01	Initial issue of report	May 24, 2012



SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.1	15.407(b)	A9.3	Unwanted Emissions	$\leq -17, -27$ dBm (depend on band)&15.209(a)	Pass	Under limit 0.78 dB at 16740.000 MHz
3.2	15.203 & 15.407(a)	A9.2	Antenna Requirement	N/A	Pass	-

1 General Description

1.1 Applicant

Acer Incorporated

8F., No. 88, Sec. 1, Xintai 5th Rd., New Taipei City 22181, Taiwan, R.O.C.

1.2 Manufacturer

Quanta Computer Inc.

1. No. 2, Lane 58, Sanzhuang Road, Songjiang Export Processing Zone, Shanghai, P.R. China
2. No. 4, Wen Ming 1st Street, Kuei Shan Hsiang, Taoyuan Shien, Taiwan, R.O.C. 333
3. No. 8, Dongjing Rd., Songjiang Industrial Zone, Shanghai, P.R. China
4. No. 4, Lane 58 Sanzhuang Road, Songjiang Export Processing Zone, Shanghai, P.R. China
5. North to Songsheng. Road, Songjiang Industrial Zone, Shanghai, P.R. China
6. B#, No. 1, South Rongteng Road, Songjiang Export Processing Zone, Shanghai, P.R. China
7. Standard Factory, South to Valqua, Rongxin Road, Songjiang Export Processing Zone, Shanghai, P.R. China
8. C#, No. 1, South Rongteng Road, Songjiang Export Processing Zone, Shanghai, P.R. China
9. No. 6, Lane 66 Sanzhuang Road, Songjiang Export Processing Zone, Shanghai, P.R. China
10. No. 5, Lane 58 Sanzhuang Road, Songjiang Export Processing Zone, Shanghai, P.R. China
11. Huade Building, No. 18, ChuangYe Rd., ShandDi Zone, HaiDian District, Beijing, P.R.C.
12. No. 68, Sanzhuang Road, Songjiang Export Processing Zone, Shanghai, P.R. China
13. 2F., C Building, XinYe Rd., Export Processing District In Torch, Zhongshan, Guangdong, P.R.C.

1.3 Feature of Equipment Under Test

Product Feature & Specification	
Equipment	Notebook Computer
Brand Name	Acer
Model Name	Z09
Marketing Name	Aspire M5 series
FCC ID	HLZ-Z09A
Integrated Module	Brand Name : Atheros Model Name : AR5B22
Tx/Rx Frequency Range	5150 MHz ~ 5250 MHz 5250 MHz ~ 5350 MHz 5470 MHz ~ 5725 MHz
Antenna Type	<Main Antenna> 5150 MHz ~ 5250 MHz: PIFA Antenna with gain -1.85 dBi 5250 MHz ~ 5350 MHz PIFA Antenna with gain -1.89 dBi 5470 MHz ~ 5725 MHz PIFA Antenna with gain -0.60 dBi <Aux. Antenna> 5150 MHz ~ 5250 MHz: PIFA Antenna with gain -0.18 dBi 5250 MHz ~ 5350 MHz PIFA Antenna with gain -0.18 dBi 5470 MHz ~ 5725 MHz PIFA Antenna with gain 0.04 dBi
HW Version	M/B : C
SW Version	BIOS :V0.24n
Type of Modulation	OFDM (BPSK / QPSK / 16QAM / 64QAM)
EUT Stage	Identical Prototype

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

1.4 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.
	03CH06-HY	722060/4086B-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 KDB 789033 D01 General UNII Test Procedures v01r01
- ♦ ANSI C63.4-2003
- ♦ IC RSS-210 Issued 8
- ♦ IC RSS-Gen Issue 3

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

1.6 Ancillary Equipment List

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	iPod Earphone	Apple	N/A	FCC DoC	Shielded, 1.0 m	N/A
2.	iPod	Apple	A1285	FCC DoC	Shielded, 1.0 m	N/A
3.	LCD Monitor	Acer	H223HQ	FCC DoC	Shielded, 1.6 m	Unshielded, 1.8 m
4.	Notebook	DELL	P20G	FCC DoC	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

There are two bandwidth systems for the device.

For 20MHz bandwidth systems, use Channel 36, 44, 48, 52, 60, 64, 100, 116, 140

For 40MHz bandwidth systems, use Channel 38, 46, 54, 62, 102, 134.

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5150-5250 MHz Band 1	36	5180	44	5220
	38	5190	46	5230
	40	5200	48	5240
	42	5210	-	-

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5250-5350 MHz Band 2	52	5260	60	5300
	54	5270	62	5310
	56	5280	64	5320
	58	5290	-	-

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5470-5725 MHz Band 3	100	5500	116	5580
	102	5510	118	5590
	104	5520	132	5660
	108	5540	134	5670
	110	5550	136	5680
	112	5560	140	5700

2.2 Pre-Scanned RF Power

Preliminary tests were performed in different data rate as below table and the highest power data rates (11a, 11a/n (BW 20MHz), 11a/n (BW 40MHz) modes) were chosen for full test in the following sections to demonstrate compliance to the FCC limit line. Final Output Power equals to Measured Output Power adds the duty factor.

2.3 RF Power

Preliminary RF power output tests were performed in different data rate and recorded the in the following table. Final Output Power equals to Measured Output Power adds the duty factor.

Final Power	802.11a Output Power (dBm)			
Ant.	1	0+1	0+1 (0)	0+1 (1)
CH36	14.70	14.48	11.78	11.14
CH44	14.68	14.35	11.77	10.87
CH48	14.74	14.30	11.72	10.81
CH52	16.80	19.14	16.40	15.85
CH60	16.07	19.24	16.30	16.16
CH64	16.30	17.33	14.59	14.03
CH100	15.11	14.31	10.92	11.65
CH116	17.11	17.44	14.16	14.69
CH140	13.68	13.61	11.00	10.16

Final Power	802.11a/n (BW 20MHz) Output Power (dBm)		
Ant.	0+1	0+1 (0)	0+1 (1)
CH36	14.12	10.87	11.34
CH44	14.09	11.52	10.58
CH48	13.91	11.16	10.62
CH52	17.45	14.74	14.11
CH60	17.29	14.62	13.90
CH64	17.08	14.17	13.96
CH100	15.41	11.97	12.79
CH116	17.79	14.36	15.17
CH140	15.22	11.56	12.77

Final Power	802.11a/n (BW 40MHz) Output Power (dBm)		
Ant.	0+1	0+1 (0)	0+1 (1)
CH38	12.41	9.56	9.23
CH46	16.42	13.83	12.94
CH54	17.89	15.20	14.53
CH62	12.51	9.58	9.41
CH102	11.47	8.21	8.69
CH118	17.96	15.02	14.87
CH134	15.05	11.28	12.69

Remark:

1. All the test data for each data rate were verified, but only the worst case was reported.
2. The data rates of WLAN 802.11a/n were set in 6Mbps for 802.11a (Ant. 1 and Ant 1+0), 6.5Mbps for 802.11a/n (BW 20MHz) (Ant 1+0), 13.5Mbps for 802.11a/n (BW 40MHz) (Ant 1+0) for all the test cases due to the highest RF output power.
3. The duty cycle of 802.11a, 802.11a/n (BW 20MHz), and 802.11a/n (BW 40MHz) is 100%.
4. The duty factor of 802.11a, 802.11a/n (BW 20MHz), and 802.11a/n (BW 40MHz) is 0 dB.
5. The EUT is programmed to transmit signal continuously for all testing.

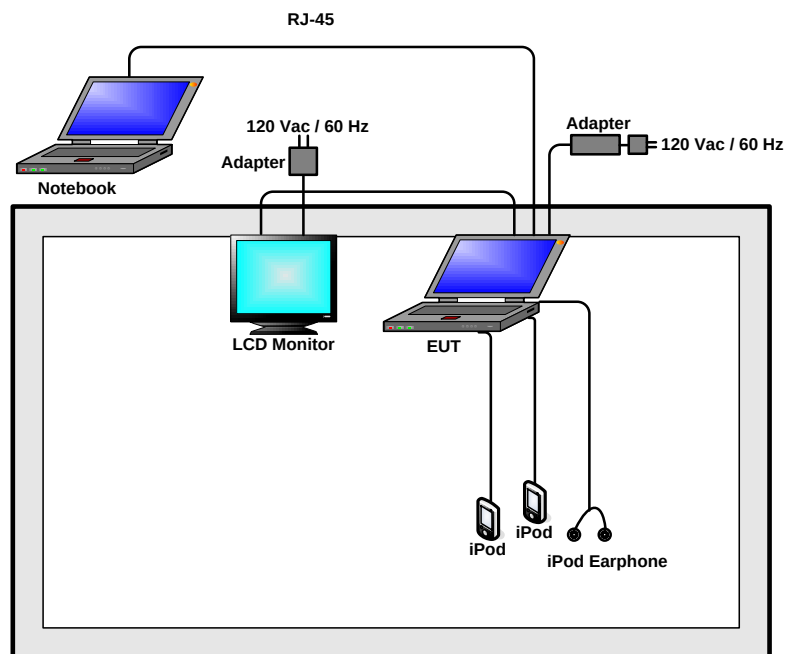
2.4 Test Mode

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: radiation (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

Pre-scanned tests were conducted to determine the final configuration from all possible combinations.

Test Cases			
Test Item	802.11a/n (Modulation : OFDM)		
Radiated TCs	Test Mode	802.11a	802.11a/n (BW 20MHz)
	CH36	1	10
	CH44	2	11
	CH48	3	12
	CH52	4	13
	CH60	5	14
	CH64	6	15
	CH100	7	16
	CH116	8	17
	CH140	9	18
	Test Mode	802.11a/n (BW 40MHz)	
	CH38	19	
	CH46	20	
	CH54	21	
	CH62	22	
	CH102	23	
	CH118	24	
	CH134	25	

2.5 Connection Diagram of Test System



2.6 RF Utility

The programmed RF Utility “artgui.exe”, 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 Unwanted Emissions Measurement

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

3.1.1 Limit of Unwanted Emissions

- (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 –27dBm/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) Unwanted spurious emissions fallen in restricted bands per FCC Part15.205 shall comply with the general field strength limits set forth in § 15.209 as below table,

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

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

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

EIRP (dBm)	Field Strength at 3m (dBuV/m)
- 27	68.3

3.1.2 Measuring Instruments

See list of measuring instruments of this test report.

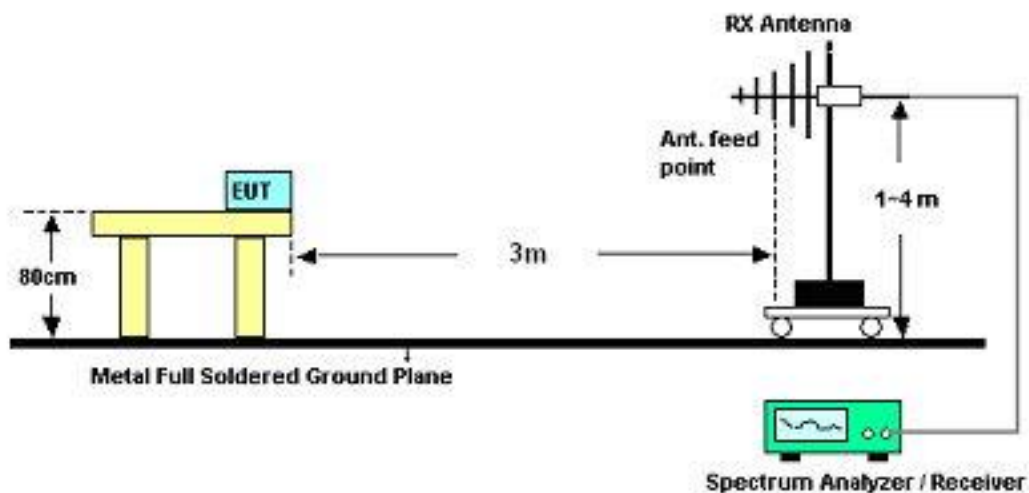
3.1.3 Test Procedures

1. The testing follows the guidelines in FCC KDB 789033 D01 General UNII Test Procedures v01r01.
 - (1) Procedure for Unwanted Emissions Measurements Below 1000MHz
 - RBW = 120 KHz
 - VBW = 300 KHz
 - Detector = Peak
 - Trace mode = max hold
 - (2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz
 - The setting follows the G) 5) of FCC KDB 789033.
 - RBW = 1 MHz
 - VBW $\geq$ 3 MHz
 - Detector = Peak
 - Sweep time = auto
 - Trace mode = max hold
 - (3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz
 - The setting follows G) 6) of FCC KDB 789033.
 - RBW = 1 MHz
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW $\geq$ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
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.

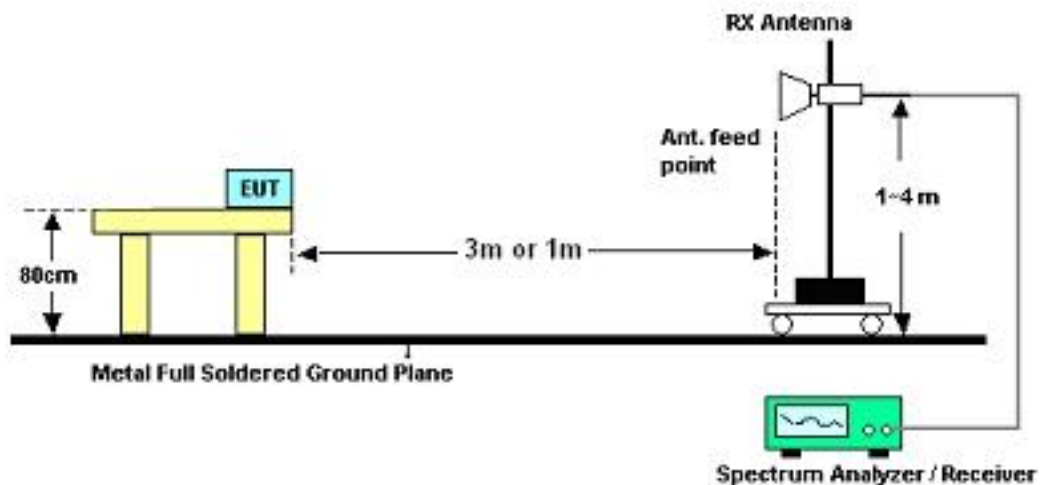
6. For each suspected emission, the EUT was arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
7. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
8. 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.

3.1.4 Test Setup

For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



3.1.5 Test Result

3.1.5.1 Test Result of Radiated Band Edges

Test Mode :	Mode 1	Temperature :	22~23°C
Test Band :	802.11a	Relative Humidity :	46~47%
Test Channel :	36	Test Engineer :	Hayden Wu

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5150	65.61	-8.39	74	56.79	34.42	8.25	33.85	100	349	Peak
5150	47.45	-6.55	54	38.63	34.42	8.25	33.85	100	349	Average

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5150	71.03	-2.97	74	62.21	34.42	8.25	33.85	100	322	Peak
5150	50.35	-3.65	54	41.53	34.42	8.25	33.85	100	322	Average

Test Mode :	Mode 4	Temperature :	22~23°C
Test Band :	802.11a	Relative Humidity :	46~47%
Test Channel :	52	Test Engineer :	Hayden Wu

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5044	50.88	-23.12	74	45.67	33.85	6.61	35.25	100	319	Peak
5044	38.94	-15.06	54	33.73	33.85	6.61	35.25	100	319	Average

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5000	53.21	-20.79	74	48.12	33.8	6.59	35.3	131	9	Peak
5000	38.99	-15.01	54	33.9	33.8	6.59	35.3	131	9	Average



Test Mode :	Mode 6	Temperature :	22~23°C
Test Band :	802.11a	Relative Humidity :	46~47%
Test Channel :	64	Test Engineer :	Hayden Wu

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5350	67.98	-6.02	74	58.77	34.58	8.47	33.84	100	306	Peak
5350	47.37	-6.63	54	38.16	34.58	8.47	33.84	100	306	Average

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5350	68.8	-5.2	74	59.59	34.58	8.47	33.84	100	100	Peak
5350	48.46	-5.54	54	39.25	34.58	8.47	33.84	100	100	Average

Test Mode :	Mode 7	Temperature :	22~23°C
Test Band :	802.11a	Relative Humidity :	46~47%
Test Channel :	100	Test Engineer :	Hayden Wu

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5470	65.63	-2.67	68.3	56.19	34.67	8.61	33.84	100	43	Peak

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5470	66.7	-1.6	68.3	57.26	34.67	8.61	33.84	100	337	Peak



Test Mode :	Mode 9	Temperature :	22~23°C
Test Band :	802.11a	Relative Humidity :	46~47%
Test Channel :	140	Test Engineer :	Hayden Wu

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5725	64.5	-3.8	68.3	54.46	35.01	8.87	33.84	100	42	Peak

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5725	66.97	-1.33	68.3	56.93	35.01	8.87	33.84	100	334	Peak

Test Mode :	Mode 10	Temperature :	22~23°C
Test Band :	802.11n (BW 20MHz)	Relative Humidity :	46~47%
Test Channel :	36	Test Engineer :	Hayden Wu

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5150	56.42	-17.58	74	47.6	34.42	8.25	33.85	114	349	Peak
5150	42.29	-11.71	54	33.47	34.42	8.25	33.85	114	349	Average

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5150	58.75	-15.25	74	49.93	34.42	8.25	33.85	100	43	Peak
5150	43.41	-10.59	54	34.59	34.42	8.25	33.85	100	43	Average



Test Mode :	Mode 13	Temperature :	22~23°C
Test Band :	802.11n (BW 20MHz)	Relative Humidity :	46~47%
Test Channel :	52	Test Engineer :	Hayden Wu

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5130	50.45	-23.55	74	45.01	33.93	6.68	35.17	100	322	Peak
5130	39.26	-14.74	54	33.82	33.93	6.68	35.17	100	322	Average

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5000	53.29	-20.71	74	48.2	33.8	6.59	35.3	104	350	Peak
5000	34.11	-19.89	54	29.02	33.8	6.59	35.3	104	350	Average

Test Mode :	Mode 15	Temperature :	22~23°C
Test Band :	802.11n (BW 20MHz)	Relative Humidity :	46~47%
Test Channel :	64	Test Engineer :	Hayden Wu

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5350	57.87	-16.13	74	48.66	34.58	8.47	33.84	111	350	Peak
5350	44.75	-9.25	54	35.54	34.58	8.47	33.84	111	350	Average

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5350	59.8	-14.2	74	50.59	34.58	8.47	33.84	100	123	Peak
5350	44.86	-9.14	54	35.65	34.58	8.47	33.84	100	123	Average



Test Mode :	Mode 16	Temperature :	22~23°C
Test Band :	802.11n (BW 20MHz)	Relative Humidity :	46~47%
Test Channel :	100	Test Engineer :	Hayden Wu

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5470	62.13	-6.17	68.3	52.69	34.67	8.61	33.84	110	302	Peak

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5470	67.21	-1.09	68.3	57.77	34.67	8.61	33.84	100	343	Peak

Test Mode :	Mode 18	Temperature :	22~23°C
Test Band :	802.11n (BW 20MHz)	Relative Humidity :	46~47%
Test Channel :	140	Test Engineer :	Hayden Wu

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5725	67.17	-1.13	68.3	57.13	35.01	8.87	33.84	110	304	Peak

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5725	66.8	-1.5	68.3	56.76	35.01	8.87	33.84	100	332	Peak



Test Mode :	Mode 19	Temperature :	22~23°C
Test Band :	802.11n (BW 40MHz)	Relative Humidity :	46~47%
Test Channel :	38	Test Engineer :	Hayden Wu

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5150	67.19	-6.81	74	58.37	34.42	8.25	33.85	100	350	Peak
5150	50.72	-3.28	54	41.9	34.42	8.25	33.85	100	350	Average

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5150	68.71	-5.29	74	59.89	34.42	8.25	33.85	100	325	Peak
5150	52.77	-1.23	54	43.95	34.42	8.25	33.85	100	325	Average

Test Mode :	Mode 20	Temperature :	22~23°C
Test Band :	802.11n (BW 40MHz)	Relative Humidity :	46~47%
Test Channel :	46	Test Engineer :	Hayden Wu

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5350	50.69	-23.31	74	41.48	34.58	8.47	33.84	100	350	Peak
5350	40.23	-13.77	54	31.02	34.58	8.47	33.84	100	350	Average

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5350	50.79	-23.21	74	41.58	34.58	8.47	33.84	100	322	Peak
5350	40.4	-13.6	54	31.19	34.58	8.47	33.84	100	322	Average



Test Mode :	Mode 21	Temperature :	22~23°C
Test Band :	802.11n (BW 40MHz)	Relative Humidity :	46~47%
Test Channel :	54	Test Engineer :	Hayden Wu

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5150	50.84	-23.16	74	42.02	34.42	8.25	33.85	100	354	Peak
5150	40.68	-13.32	54	31.86	34.42	8.25	33.85	100	354	Average

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5150	40.93	-13.07	54	32.11	34.42	8.25	33.85	100	342	Peak
5150	40.93	-13.07	54	32.11	34.42	8.25	33.85	100	342	Average

Test Mode :	Mode 22	Temperature :	22~23°C
Test Band :	802.11n (BW 40MHz)	Relative Humidity :	46~47%
Test Channel :	62	Test Engineer :	Hayden Wu

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5350	64.66	-9.34	74	55.45	34.58	8.47	33.84	100	304	Peak
5350	49.02	-4.98	54	39.81	34.58	8.47	33.84	100	304	Average

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5350	56.37	-17.63	74	47.16	34.58	8.47	33.84	100	313	Peak
5350	44.16	-9.84	54	34.95	34.58	8.47	33.84	100	313	Average



Test Mode :	Mode 23	Temperature :	22~23°C
Test Band :	802.11n (BW 40MHz)	Relative Humidity :	46~47%
Test Channel :	102	Test Engineer :	Hayden Wu

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5470	65.05	-3.25	68.3	55.61	34.67	8.61	33.84	100	43	Peak

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5470	62.86	-5.44	68.3	53.42	34.67	8.61	33.84	100	341	Peak

Test Mode :	Mode 24	Temperature :	22~23°C
Test Band :	802.11n (BW 40MHz)	Relative Humidity :	46~47%
Test Channel :	134	Test Engineer :	Hayden Wu

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5725	59.32	-8.98	68.3	49.28	35.01	8.87	33.84	100	46	Peak

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5725	56.8	-11.5	68.3	46.76	35.01	8.87	33.84	100	345	Peak

**3.1.5.2 Test Results of Unwanted Radiated Emissions (9kHz ~ 30MHz)**

Temperature	22~23°C	Humidity	46~47%
Test Engineer	Hayden 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.

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

Test Mode :	Mode 1	Temperature :	22~23°C
Test Channel :	36	Relative Humidity :	46~47%
Test Engineer :	Hayden Wu	Polarization :	Horizontal
Remark :	1. 5180 MHz is fundamental signal which can be ignored. 2. 10360 MHz is not within a restricted band, and its limit line is 68.3dBuV/m.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5150	47.45	-6.55	54	38.63	34.42	8.25	33.85	100	349	Average
5150	65.61	-8.39	74	56.79	34.42	8.25	33.85	100	349	Peak
5180	95.78	-	-	86.9	34.45	8.28	33.85	100	349	Average
5180	106.36	-	-	97.48	34.45	8.28	33.85	100	349	Peak
5350	40.18	-13.82	54	30.97	34.58	8.47	33.84	100	349	Average
5350	51.24	-22.76	74	42.03	34.58	8.47	33.84	100	349	Peak
10360	56.36	-11.94	68.3	65.06	37.25	9.71	55.66	100	0	Peak
15540	46.08	-7.92	54	52.14	40.01	11.93	58	112	359	Average
15540	57.42	-16.58	74	63.48	40.01	11.93	58	112	359	Peak

Test Mode :	Mode 1	Temperature :	22~23°C
Test Channel :	36	Relative Humidity :	46~47%
Test Engineer :	Hayden Wu	Polarization :	Vertical
Remark :	1. 5180 MHz is fundamental signal which can be ignored. 2. 10360 MHz is not within a restricted band,		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5150	50.35	-3.65	54	41.53	34.42	8.25	33.85	100	322	Average
5150	71.03	-2.97	74	62.21	34.42	8.25	33.85	100	322	Peak
5180	96.94	-	-	88.06	34.45	8.28	33.85	100	322	Average
5180	107.98	-	-	99.1	34.45	8.28	33.85	100	322	Peak
5350	40.05	-13.95	54	30.84	34.58	8.47	33.84	100	322	Average
5350	51.93	-22.07	74	42.72	34.58	8.47	33.84	100	322	Peak
10360	58.25	-10.05	68.3	66.95	37.25	9.71	55.66	100	0	Peak
15540	46	-8.0	54	52.06	40.01	11.93	58	116	5	Average
15540	57.26	-16.74	74	63.32	40.01	11.93	58	116	5	Peak



Test Mode :	Mode 2	Temperature :	22~23°C
Test Channel :	44	Relative Humidity :	46~47%
Test Engineer :	Hayden Wu	Polarization :	Horizontal
Remark :	10440 MHz is not within a restricted band,		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
10440	58.74	-9.56	68.3	67.37	37.27	9.75	55.65	100	0	Peak
15660	44.72	-9.28	54	50.53	40.06	11.87	57.74	100	9	Average
15660	56.07	-17.93	74	61.88	40.06	11.87	57.74	100	9	Peak

Test Mode :	Mode 2	Temperature :	22~23°C
Test Channel :	44	Relative Humidity :	46~47%
Test Engineer :	Hayden Wu	Polarization :	Vertical
Remark :	10440 MHz is not within a restricted band,		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
10440	62.74	-5.56	68.3	71.37	37.27	9.75	55.65	100	0	Peak
15660	46.65	-7.35	54	52.46	40.06	11.87	57.74	103	318	Average
15660	57.5	-16.5	74	63.31	40.06	11.87	57.74	103	318	Peak

Test Mode :	Mode 3	Temperature :	22~23°C
Test Channel :	48	Relative Humidity :	46~47%
Test Engineer :	Hayden Wu	Polarization :	Horizontal
Remark :	10480 MHz is not within a restricted band,		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
10480	57.69	-10.61	68.3	66.25	37.29	9.78	55.63	100	0	Peak
15720	45.38	-8.62	54	51.03	40.09	11.85	57.59	100	45	Average
15720	57.46	-16.54	74	63.11	40.09	11.85	57.59	100	45	Peak

Test Mode :	Mode 3	Temperature :	22~23°C
Test Channel :	48	Relative Humidity :	46~47%
Test Engineer :	Hayden Wu	Polarization :	Vertical
Remark :	10480 MHz is not within a restricted band,		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
10480	60.62	-7.68	68.3	69.18	37.29	9.78	55.63	100	0	Peak
15720	45.47	-8.53	54	51.12	40.09	11.85	57.59	107	17	Average
15720	56.57	-17.43	74	62.22	40.09	11.85	57.59	107	17	Peak

Test Mode :	Mode 4	Temperature :	22~23°C
Test Channel :	52	Relative Humidity :	46~47%
Test Engineer :	Hayden Wu	Polarization :	Horizontal
Remark :	1. 5260 MHz is fundamental signal which can be ignored. 2. 10520 MHz is not within a restricted band.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5044	38.94	-15.06	54	33.73	33.85	6.61	35.25	100	319	Average
5044	50.88	-23.12	74	45.67	33.85	6.61	35.25	100	319	Peak
5260	97	-	-	91.19	34.07	6.78	35.04	100	319	Average
5260	107.03	-	-	101.26	34.05	6.76	35.04	100	319	Peak
5398	38.44	-15.56	54	32.29	34.2	6.86	34.91	100	319	Average
5398	50.58	-23.42	74	44.43	34.2	6.86	34.91	100	319	Peak
10520	58.73	-9.57	68.3	67.24	37.31	9.81	55.63	100	0	Peak
15780	48.14	-5.86	54	53.7	40.11	11.81	57.48	103	3	Average
15780	58.39	-15.61	74	63.95	40.11	11.81	57.48	103	3	Peak

Test Mode :	Mode 4	Temperature :	22~23°C
Test Channel :	52	Relative Humidity :	46~47%
Test Engineer :	Hayden Wu	Polarization :	Vertical
Remark :	1. 5260 MHz is fundamental signal which can be ignored. 2. 10520 MHz is not within a restricted band.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5000	38.99	-15.01	54	33.9	33.8	6.59	35.3	131	9	Average
5000	53.21	-20.79	74	48.12	33.8	6.59	35.3	131	9	Peak
5260	103	-	-	97.19	34.07	6.78	35.04	131	9	Average
5260	112.87	-	-	107.1	34.05	6.76	35.04	131	9	Peak
5360	39.86	-14.14	54	33.79	34.15	6.85	34.93	131	9	Average
5360	51.04	-22.96	74	44.97	34.15	6.85	34.93	131	9	Peak
10520	63.21	-5.09	68.3	71.72	37.31	9.81	55.63	100	0	Peak
15780	47.92	-6.08	54	53.48	40.11	11.81	57.48	122	325	Average
15780	58.83	-15.17	74	64.34	40.12	11.81	57.44	122	325	Peak



Test Mode :	Mode 5	Temperature :	22~23°C
Test Channel :	60	Relative Humidity :	46~47%
Test Engineer :	Hayden Wu	Polarization :	Horizontal

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
30	23.8	-16.2	40	34.94	19.8	0.7	31.64	-	-	Peak
167.97	27.95	-15.55	43.5	47.97	9.74	1.36	31.12	100	64	Peak
216.03	30.27	-15.73	46	50.53	9.26	1.53	31.05	-	-	Peak
364.4	28.01	-17.99	46	42.39	14.74	1.93	31.05	-	-	Peak
499.5	25.88	-20.12	46	36.15	18.08	2.23	30.58	-	-	Peak
600.3	27.43	-18.57	46	35.51	19.9	2.42	30.4	-	-	Peak
10600	47.65	-6.35	54	56.02	37.38	9.85	55.6	100	321	Average
10600	58.12	-15.88	74	66.49	37.38	9.85	55.6	100	321	Peak
15900	45.71	-8.29	54	51.01	40.16	11.76	57.22	101	6	Average
15900	57.11	-16.89	74	62.41	40.16	11.76	57.22	101	6	Peak

Test Mode :	Mode 5	Temperature :	22~23°C
Test Channel :	60	Relative Humidity :	46~47%
Test Engineer :	Hayden Wu	Polarization :	Vertical

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
30	36.19	-3.81	40	47.33	19.8	0.7	31.64	100	116	Peak
63.75	29.17	-10.83	40	53.92	5.92	0.88	31.55			Peak
167.97	32.87	-10.63	43.5	52.89	9.74	1.36	31.12			Peak
395.9	25.6	-20.4	46	38.96	15.8	2	31.16			Peak
545.7	25.6	-20.4	46	34.94	19.36	2.32	31.02			Peak
640.2	23.76	-22.24	46	30.77	20.6	2.56	30.17			Peak
10600	52.09	-1.91	54	60.46	37.38	9.85	55.6	100	340	Average
10600	62.39	-11.61	74	70.76	37.38	9.85	55.6	100	340	Peak
15900	47.56	-6.44	54	52.86	40.16	11.76	57.22	118	332	Average
15900	60.24	-13.76	74	65.54	40.16	11.76	57.22	118	332	Peak



Test Mode :	Mode 6	Temperature :	22~23°C
Test Channel :	64	Relative Humidity :	46~47%
Test Engineer :	Hayden Wu	Polarization :	Horizontal
Remark :	5320 MHz is fundamental signal which can be ignored.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5150	40.52	-13.48	54	31.7	34.42	8.25	33.85	100	306	Average
5150	51.56	-22.44	74	42.74	34.42	8.25	33.85	100	306	Peak
5320	97.19	-	-	88.04	34.55	8.44	33.84	100	306	Average
5320	108.04	-	-	98.89	34.55	8.44	33.84	100	306	Peak
5350	47.37	-6.63	54	38.16	34.58	8.47	33.84	100	306	Average
5350	67.98	-6.02	74	58.77	34.58	8.47	33.84	100	306	Peak
10640	47.1	-6.9	54	55.4	37.41	9.88	55.59	130	353	Average
10640	57.63	-16.37	74	65.93	37.41	9.88	55.59	130	353	Peak
15960	46.14	-7.86	54	51.29	40.19	11.73	57.07	100	1	Average
15960	57.76	-16.24	74	62.91	40.19	11.73	57.07	100	1	Peak

Test Mode :	Mode 6	Temperature :	22~23°C
Test Channel :	64	Relative Humidity :	46~47%
Test Engineer :	Hayden Wu	Polarization :	Vertical
Remark :	5320 MHz is fundamental signal which can be ignored.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5150	40.78	-13.22	54	31.96	34.42	8.25	33.85	100	100	Average
5150	51.17	-22.83	74	42.35	34.42	8.25	33.85	100	100	Peak
5320	97.31	-	-	88.16	34.55	8.44	33.84	100	100	Average
5320	109.2	-	-	100.05	34.55	8.44	33.84	100	100	Peak
5350	48.46	-5.54	54	39.25	34.58	8.47	33.84	100	100	Average
5350	68.8	-5.2	74	59.59	34.58	8.47	33.84	100	100	Peak
10640	51.95	-2.05	54	60.25	37.41	9.88	55.59	118	336	Average
10640	61.89	-12.11	74	70.19	37.41	9.88	55.59	118	336	Peak
15960	46.65	-7.35	54	51.8	40.19	11.73	57.07	125	327	Average
15960	57.28	-16.72	74	62.44	40.19	11.72	57.07	125	327	Peak

Test Mode :	Mode 7	Temperature :	22~23°C
Test Channel :	100	Relative Humidity :	46~47%
Test Engineer :	Hayden Wu	Polarization :	Horizontal
Remark :	1. 5500 MHz is fundamental signal which can be ignored. 2. 5470 MHz, 5725 MHz and 16500 MHz are not within a restricted band.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5470	65.63	-2.67	68.3	56.19	34.67	8.61	33.84	100	43	Peak
5500	94.53	-	-	85.01	34.7	8.66	33.84	100	43	Average
5500	106.69	-	-	97.17	34.7	8.66	33.84	100	43	Peak
5725	52.35	-15.95	68.3	42.31	35.01	8.87	33.84	100	43	Peak
11000	44.42	-9.58	54	52.1	37.7	10.11	55.49	100	355	Average
11000	53.44	-20.56	74	61.12	37.7	10.11	55.49	100	355	Peak
16500	65.74	-2.56	68.3	68.69	40.9	12.24	56.09	100	0	Peak

Test Mode :	Mode 7	Temperature :	22~23°C
Test Channel :	100	Relative Humidity :	46~47%
Test Engineer :	Hayden Wu	Polarization :	Vertical
Remark :	1. 5500 MHz is fundamental signal which can be ignored. 2. 5470 MHz, 5725 MHz and 16500 MHz are not within a restricted band.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5470	66.7	-1.6	68.3	57.26	34.67	8.61	33.84	100	337	Peak
5500	97.28	-	-	87.76	34.7	8.66	33.84	100	337	Average
5500	108.18	-	-	98.66	34.7	8.66	33.84	100	337	Peak
5725	52.96	-15.34	68.3	42.92	35.01	8.87	33.84	100	337	Peak
11000	44.96	-9.04	54	52.64	37.7	10.11	55.49	100	12	Average
11000	55.25	-18.75	74	62.95	37.7	10.09	55.49	100	12	Peak
16500	66.29	-2.01	68.3	69.24	40.9	12.24	56.09	100	0	Peak

Test Mode :	Mode 8	Temperature :	22~23°C
Test Channel :	116	Relative Humidity :	46~47%
Test Engineer :	Hayden Wu	Polarization :	Horizontal
Remark :	16740 MHz is not within a restricted band.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
11160	44.12	-9.88	54	50.36	37.93	10.97	55.14	100	358	Average
11160	57.62	-16.38	74	63.86	37.93	10.97	55.14	100	358	Peak
16740	64.07	-4.23	68.3	61.96	41.13	13.91	52.93	100	0	Peak

Test Mode :	Mode 8	Temperature :	22~23°C
Test Channel :	116	Relative Humidity :	46~47%
Test Engineer :	Hayden Wu	Polarization :	Vertical
Remark :	16740 MHz are not within a restricted band.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
11160	48.39	-5.61	54	54.63	37.93	10.97	55.14	100	22	Average
11160	58.02	-15.98	74	64.26	37.93	10.97	55.14	100	22	Peak
16740	67.11	-1.19	68.3	65	41.13	13.91	52.93	100	0	Peak

Test Mode :	Mode 9	Temperature :	22~23°C
Test Channel :	140	Relative Humidity :	46~47%
Test Engineer :	Hayden Wu	Polarization :	Horizontal
Remark :	1. 5700 MHz is fundamental signal which can be ignored. 2. 5470 MHz, 5725 MHz and 17100 MHz are not within a restricted band.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5470	52.88	-15.42	68.3	43.44	34.67	8.61	33.84	100	42	Peak
5700	94.79	-	-	84.81	34.97	8.85	33.84	100	42	Average
5700	105.74	-	-	95.76	34.97	8.85	33.84	100	42	Peak
5725	64.5	-3.8	68.3	54.46	35.01	8.87	33.84	100	42	Peak
11400	41.7	-12.3	54	48.79	37.94	10.23	55.26	100	356	Average
11400	52.26	-21.74	74	59.35	37.94	10.23	55.26	100	356	Peak
17100	56.68	-11.62	68.3	59.31	41.44	12.45	56.52	100	0	Peak

Test Mode :	Mode 9	Temperature :	22~23°C
Test Channel :	140	Relative Humidity :	46~47%
Test Engineer :	Hayden Wu	Polarization :	Vertical
Remark :	1. 5700 MHz is fundamental signal which can be ignored. 2. 5470 MHz, 5725 MHz and 17100 MHz are not within a restricted band.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5470	50.79	-17.51	68.3	41.35	34.67	8.61	33.84	100	334	Peak
5700	96.57	-	-	86.59	34.97	8.85	33.84	100	334	Average
5700	107.31	-	-	97.33	34.97	8.85	33.84	100	334	Peak
5725	66.97	-1.33	68.3	56.93	35.01	8.87	33.84	100	334	Peak
11400	43.76	-10.24	54	50.85	37.94	10.23	55.26	119	46	Average
11400	54.41	-19.59	74	61.5	37.94	10.23	55.26	119	46	Peak
17100	55.86	-12.44	68.3	58.49	41.44	12.45	56.52	100	0	Peak

Test Mode :	Mode 10	Temperature :	22~23°C
Test Channel :	36	Relative Humidity :	46~47%
Test Engineer :	Hayden Wu	Polarization :	Horizontal
Remark :	1. 5180 MHz is fundamental signal which can be ignored. 2. 10360 MHz is not within a restricted band.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5150	42.29	-11.71	54	33.47	34.42	8.25	33.85	114	349	Average
5150	56.42	-17.58	74	47.6	34.42	8.25	33.85	114	349	Peak
5180	93.24	-	-	84.36	34.45	8.28	33.85	114	349	Average
5180	105.69	-	-	96.81	34.45	8.28	33.85	114	349	Peak
5350	40.22	-13.78	54	31.01	34.58	8.47	33.84	114	349	Average
5350	51.92	-22.08	74	42.71	34.58	8.47	33.84	114	349	Peak
10360	52.66	-15.64	68.3	61.36	37.25	9.71	55.66	100	0	Peak
15540	39.26	-14.74	54	45.32	40.01	11.93	58	100	3	Average
15540	52.63	-21.37	74	58.69	40.01	11.93	58	100	3	Peak

Test Mode :	Mode 10	Temperature :	22~23°C
Test Channel :	36	Relative Humidity :	46~47%
Test Engineer :	Hayden Wu	Polarization :	Vertical
Remark :	1. 5180 MHz is fundamental signal which can be ignored. 2. 10360 MHz is not within a restricted band.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5150	43.41	-10.59	54	34.59	34.42	8.25	33.85	100	43	Average
5150	58.75	-15.25	74	49.93	34.42	8.25	33.85	100	43	Peak
5180	94.26	-	-	85.38	34.45	8.28	33.85	100	43	Average
5180	105.58	-	-	96.7	34.45	8.28	33.85	100	43	Peak
5350	40.14	-13.86	54	30.93	34.58	8.47	33.84	100	43	Average
5350	51.19	-22.81	74	41.98	34.58	8.47	33.84	100	43	Peak
10360	54.1	-14.2	68.3	62.8	37.25	9.71	55.66	100	0	Peak
15540	41.66	-12.34	54	47.72	40.01	11.93	58	124	334	Average
15540	54.56	-19.44	74	60.58	40.02	11.93	57.97	124	334	Peak

Test Mode :	Mode 11	Temperature :	22~23°C
Test Channel :	44	Relative Humidity :	46~47%
Test Engineer :	Hayden Wu	Polarization :	Horizontal
Remark :	10440 MHz is not within a restricted band.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
10440	55.89	-12.41	68.3	64.03	37.46	10.48	56.08	100	0	Peak
15660	48.27	-5.73	54	49.1	39.93	12.42	53.18	105	60	Average
15660	58.63	-15.37	74	59.46	39.93	12.42	53.18	105	60	Peak

Test Mode :	Mode 11	Temperature :	22~23°C
Test Channel :	44	Relative Humidity :	46~47%
Test Engineer :	Hayden Wu	Polarization :	Vertical
Remark :	10440 MHz is not within a restricted band.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
10440	57.77	-10.53	68.3	65.91	37.46	10.48	56.08	100	0	Peak
15660	49.92	-4.08	54	50.75	39.93	12.42	53.18	105	51	Average
15660	63.32	-10.68	74	64.15	39.93	12.42	53.18	105	51	Peak

Test Mode :	Mode 12	Temperature :	22~23°C
Test Channel :	48	Relative Humidity :	46~47%
Test Engineer :	Hayden Wu	Polarization :	Horizontal
Remark :	10480 MHz is not within a restricted band.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
10480	53.48	-14.82	68.3	62.04	37.29	9.78	55.63	100	0	Peak
15720	41.26	-12.74	54	46.91	40.09	11.85	57.59	100	14	Average
15720	54.49	-19.51	74	60.15	40.09	11.84	57.59	100	14	Peak

Test Mode :	Mode 12	Temperature :	22~23°C
Test Channel :	48	Relative Humidity :	46~47%
Test Engineer :	Hayden Wu	Polarization :	Vertical
Remark :	10480 MHz is not within a restricted band.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
10480	58.52	-9.78	68.3	67.08	37.29	9.78	55.63	100	0	Peak
15720	44.2	-9.8	54	49.85	40.09	11.85	57.59	121	333	Average
15720	56.5	-17.5	74	62.15	40.09	11.85	57.59	121	333	Peak

Test Mode :	Mode 13	Temperature :	22~23°C
Test Channel :	52	Relative Humidity :	46~47%
Test Engineer :	Hayden Wu	Polarization :	Horizontal
Remark :	1. 5260 MHz is fundamental signal which can be ignored. 2. 10520 MHz is not within a restricted band.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5130	39.26	-14.74	54	33.82	33.93	6.68	35.17	100	322	Average
5130	50.45	-23.55	74	45.01	33.93	6.68	35.17	100	322	Peak
5260	95.23	-	-	89.42	34.07	6.78	35.04	100	322	Average
5260	105.23	-	-	99.42	34.07	6.78	35.04	100	322	Peak
5432	39.97	-14.03	54	33.69	34.23	6.9	34.85	100	322	Average
5432	50.76	-23.24	74	44.48	34.23	6.9	34.85	100	322	Peak
10520	56.72	-11.58	68.3	65.2	37.33	9.81	55.62	100	0	Peak
15780	48.36	-5.64	54	53.92	40.11	11.81	57.48	105	14	Average
15780	59.57	-14.43	74	65.13	40.11	11.81	57.48	105	14	Peak

Test Mode :	Mode 13	Temperature :	22~23°C
Test Channel :	52	Relative Humidity :	46~47%
Test Engineer :	Hayden Wu	Polarization :	Vertical
Remark :	1. 5260 MHz is fundamental signal which can be ignored. 2. 10520 MHz is not within a restricted band.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5000	34.11	-19.89	54	29.02	33.8	6.59	35.3	104	350	Average
5000	53.29	-20.71	74	48.2	33.8	6.59	35.3	104	350	Peak
5260	101.32	-	-	95.51	34.07	6.78	35.04	104	350	Average
5260	111.34	-	-	105.57	34.05	6.76	35.04	104	350	Peak
5444	40.15	-13.85	54	33.87	34.23	6.9	34.85	104	350	Average
5444	51.38	-22.62	74	45.1	34.23	6.9	34.85	104	350	Peak
10520	61.33	-6.97	68.3	69.81	37.33	9.81	55.62	100	0	Peak
15780	49.39	-4.61	54	54.95	40.11	11.81	57.48	101	355	Average
15780	61.68	-12.32	74	67.24	40.11	11.81	57.48	101	355	Peak

Test Mode :	Mode 14	Temperature :	22~23°C
Test Channel :	60	Relative Humidity :	46~47%
Test Engineer :	Hayden Wu	Polarization :	Horizontal

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
10600	44.66	-9.34	54	52.42	37.56	10.59	55.91	156	297	Average
10600	57.18	-16.82	74	64.94	37.56	10.59	55.91	156	297	Peak
15900	51.4	-2.6	54	52.21	39.98	12.7	53.49	104	60	Average
15900	62.29	-11.71	74	63.1	39.98	12.7	53.49	104	60	Peak

Test Mode :	Mode 14	Temperature :	22~23°C
Test Channel :	60	Relative Humidity :	46~47%
Test Engineer :	Hayden Wu	Polarization :	Vertical

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
10600	49.5	-4.5	54	57.26	37.56	10.59	55.91	100	28	Average
10600	59.9	-14.1	74	67.66	37.56	10.59	55.91	100	28	Peak
15900	51.94	-2.06	54	52.75	39.98	12.7	53.49	104	344	Average
15900	62.18	-11.82	74	62.99	39.98	12.7	53.49	104	344	Peak

Test Mode :	Mode 15	Temperature :	22~23°C
Test Channel :	64	Relative Humidity :	46~47%
Test Engineer :	Hayden Wu	Polarization :	Horizontal
Remark :	5320 MHz is fundamental signal which can be ignored.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5150	40.69	-13.31	54	31.87	34.42	8.25	33.85	111	350	Average
5150	52.2	-21.8	74	43.38	34.42	8.25	33.85	111	350	Peak
5320	97.32	-	-	88.17	34.55	8.44	33.84	111	350	Average
5320	108.81	-	-	99.66	34.55	8.44	33.84	111	350	Peak
5350	44.75	-9.25	54	35.54	34.58	8.47	33.84	111	350	Average
5350	57.87	-16.13	74	48.66	34.58	8.47	33.84	111	350	Peak
10640	46.3	-7.7	54	54.6	37.41	9.88	55.59	107	354	Average
10640	57.62	-16.38	74	65.93	37.41	9.87	55.59	107	354	Peak
15960	45.27	-8.73	54	50.42	40.19	11.73	57.07	111	14	Average
15960	56.19	-17.81	74	61.34	40.19	11.73	57.07	111	14	Peak

Test Mode :	Mode 15	Temperature :	22~23°C
Test Channel :	64	Relative Humidity :	46~47%
Test Engineer :	Hayden Wu	Polarization :	Vertical
Remark :	5320 MHz is fundamental signal which can be ignored.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5150	40.47	-13.53	54	31.65	34.42	8.25	33.85	100	123	Average
5150	52.38	-21.62	74	43.56	34.42	8.25	33.85	100	123	Peak
5320	98.01	-	-	88.86	34.55	8.44	33.84	100	123	Average
5320	109.72	-	-	100.57	34.55	8.44	33.84	100	123	Peak
5350	44.86	-9.14	54	35.65	34.58	8.47	33.84	100	123	Average
5350	59.8	-14.2	74	50.59	34.58	8.47	33.84	100	123	Peak
10640	50.04	-3.96	54	58.34	37.41	9.88	55.59	121	339	Average
10640	61.17	-12.83	74	69.47	37.41	9.88	55.59	121	339	Peak
15960	47.99	-6.01	54	53.14	40.19	11.73	57.07	100	345	Average
15960	61.73	-12.27	74	66.89	40.19	11.72	57.07	100	345	Peak

Test Mode :	Mode 16	Temperature :	22~23°C
Test Channel :	100	Relative Humidity :	46~47%
Test Engineer :	Hayden Wu	Polarization :	Horizontal
Remark :	1. 5500 MHz is fundamental signal which can be ignored. 2. 5470 MHz, 5725 MHz, and 16500 MHz are not within a restricted band.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5470	62.13	-6.17	68.3	52.69	34.67	8.61	33.84	110	302	Peak
5500	95.75	-	-	86.23	34.7	8.66	33.84	110	302	Average
5500	106.01	-	-	96.49	34.7	8.66	33.84	110	302	Peak
5725	53.26	-15.04	68.3	43.22	35.01	8.87	33.84	110	302	Peak
11000	45.68	-8.32	54	53.36	37.7	10.11	55.49	109	7	Average
11000	58.4	-15.6	74	66.1	37.7	10.09	55.49	109	7	Peak
16500	62.76	-5.54	68.3	65.71	40.9	12.24	56.09	100	0	Peak

Test Mode :	Mode 16	Temperature :	22~23°C
Test Channel :	100	Relative Humidity :	46~47%
Test Engineer :	Hayden Wu	Polarization :	Vertical
Remark :	1. 5500 MHz is fundamental signal which can be ignored. 2. 5470 MHz, 5725 MHz, and 16500 MHz are not within a restricted band.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5470	67.21	-1.09	68.3	57.77	34.67	8.61	33.84	100	343	Peak
5500	96.52	-	-	87	34.7	8.66	33.84	100	343	Average
5500	107.58	-	-	98.06	34.7	8.66	33.84	100	343	Peak
5725	51.59	-16.71	68.3	41.55	35.01	8.87	33.84	100	343	Peak
11000	46.55	-7.45	54	54.23	37.7	10.11	55.49	100	354	Average
11000	59.03	-14.97	74	66.73	37.7	10.09	55.49	100	354	Peak
16500	65.05	-3.25	68.3	68	40.9	12.24	56.09	100	0	Peak

Test Mode :	Mode 17	Temperature :	22~23°C
Test Channel :	116	Relative Humidity :	46~47%
Test Engineer :	Hayden Wu	Polarization :	Horizontal
Remark :	16740 MHz are not within a restricted band.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
11160	44.02	-9.98	54	50.26	37.93	10.97	55.14	100	6	Average
11160	54.13	-19.87	74	60.37	37.93	10.97	55.14	100	6	Peak
16740	61.1	-7.2	68.3	58.99	41.13	13.91	52.93	100	0	Peak

Test Mode :	Mode 17	Temperature :	22~23°C
Test Channel :	116	Relative Humidity :	46~47%
Test Engineer :	Hayden Wu	Polarization :	Vertical
Remark :	16740 MHz are not within a restricted band.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
11160	48.34	-5.66	54	54.58	37.93	10.97	55.14	100	23	Average
11160	57.99	-16.01	74	64.23	37.93	10.97	55.14	100	23	Peak
16740	67.52	-0.78	68.3	64.24	41.13	13.91	52.93	100	0	Peak

Test Mode :	Mode 18	Temperature :	22~23°C
Test Channel :	140	Relative Humidity :	46~47%
Test Engineer :	Hayden Wu	Polarization :	Horizontal
Remark :	1. 5700 MHz is fundamental signal which can be ignored. 2. 5470 MHz, 5725 MHz and 17100 MHz are not within a restricted band.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5470	51.45	-16.85	68.3	42.01	34.67	8.61	33.84	110	304	Peak
5700	95.27	-	-	85.29	34.97	8.85	33.84	110	304	Average
5700	106.55	-	-	96.57	34.97	8.85	33.84	110	304	Peak
5725	67.17	-1.13	68.3	57.13	35.01	8.87	33.84	110	304	Peak
11400	44.3	-9.7	54	51.39	37.94	10.23	55.26	117	20	Average
11400	55.55	-18.45	74	62.64	37.94	10.23	55.26	117	20	Peak
17100	59.17	-9.13	68.3	61.8	41.44	12.45	56.52	100	0	Peak

Test Mode :	Mode 18	Temperature :	22~23°C
Test Channel :	140	Relative Humidity :	46~47%
Test Engineer :	Hayden Wu	Polarization :	Vertical
Remark :	1. 5700 MHz is fundamental signal which can be ignored. 2. 5470 MHz, 5725 MHz and 17100 MHz are not within a restricted band.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5470	52.65	-15.65	68.3	43.21	34.67	8.61	33.84	100	332	Peak
5700	96.97	-	-	86.99	34.97	8.85	33.84	100	332	Average
5700	107.07	-	-	97.09	34.97	8.85	33.84	100	332	Peak
5725	66.8	-1.5	68.3	56.76	35.01	8.87	33.84	100	332	Peak
11400	45.2	-8.8	54	52.29	37.94	10.23	55.26	100	46	Average
11400	56.06	-17.94	74	63.14	37.94	10.24	55.26	100	46	Peak
17100	59.6	-8.7	68.3	62.23	41.44	12.45	56.52	100	0	Peak

Test Mode :	Mode 19	Temperature :	22~23°C
Test Channel :	38	Relative Humidity :	46~47%
Test Engineer :	Hayden Wu	Polarization :	Horizontal
Remark :	1. 5190 MHz is fundamental signal which can be ignored. 2. 10380 MHz is not within a restricted band.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5150	50.72	-3.28	54	41.9	34.42	8.25	33.85	100	350	Average
5150	67.19	-6.81	74	58.37	34.42	8.25	33.85	100	350	Peak
5190	90.63	-	-	81.72	34.45	8.31	33.85	100	350	Average
5190	102.19	-	-	93.28	34.45	8.31	33.85	100	350	Peak
5350	40.39	-13.61	54	31.18	34.58	8.47	33.84	100	350	Average
5350	52.9	-21.1	74	43.69	34.58	8.47	33.84	100	350	Peak
10380	50.14	-18.16	68.3	58.82	37.25	9.73	55.66	100	0	Peak

Test Mode :	Mode 19	Temperature :	22~23°C
Test Channel :	38	Relative Humidity :	46~47%
Test Engineer :	Hayden Wu	Polarization :	Vertical
Remark :	1. 5190 MHz is fundamental signal which can be ignored. 2. 10380 MHz is not within a restricted band.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5150	52.77	-1.23	54	43.95	34.42	8.25	33.85	100	325	Average
5150	68.71	-5.29	74	59.89	34.42	8.25	33.85	100	325	Peak
5190	93.09	-	-	84.18	34.45	8.31	33.85	100	325	Average
5190	103.27	-	-	94.36	34.45	8.31	33.85	100	325	Peak
5350	40.3	-13.7	54	31.09	34.58	8.47	33.84	100	325	Average
5350	51.79	-22.21	74	42.58	34.58	8.47	33.84	100	325	Peak
10380	53.13	-15.17	68.3	61.81	37.25	9.73	55.66	100	0	Peak
15570	49.37	-24.63	74	55.35	40.03	11.92	57.93	100	0	Peak

Test Mode :	Mode 20	Temperature :	22~23°C
Test Channel :	46	Relative Humidity :	46~47%
Test Engineer :	Hayden Wu	Polarization :	Horizontal
Remark :	1. 5230 MHz is fundamental signal which can be ignored. 2. 10460 MHz is not within a restricted band.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5150	42.73	-11.27	54	33.91	34.42	8.25	33.85	100	350	Average
5150	57.71	-16.29	74	48.89	34.42	8.25	33.85	100	350	Peak
5230	95.62	-	-	86.65	34.49	8.33	33.85	100	350	Average
5230	105.57	-	-	96.6	34.49	8.33	33.85	100	350	Peak
5350	40.23	-13.77	54	31.02	34.58	8.47	33.84	100	350	Average
5350	50.69	-23.31	74	41.48	34.58	8.47	33.84	100	350	Peak
10460	54.73	-13.57	68.3	62.85	37.47	10.48	56.07	100	0	Peak
15690	50.75	-3.25	54	51.58	39.94	12.45	53.22	110	60	Average
15690	59.99	-14.01	74	60.82	39.94	12.45	53.22	110	60	Peak

Test Mode :	Mode 20	Temperature :	22~23°C
Test Channel :	46	Relative Humidity :	46~47%
Test Engineer :	Hayden Wu	Polarization :	Vertical
Remark :	1. 5230 MHz is fundamental signal which can be ignored. 2. 10460 MHz is not within a restricted band.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5150	43.43	-10.57	54	34.61	34.42	8.25	33.85	100	322	Average
5150	54.2	-19.8	74	45.38	34.42	8.25	33.85	100	322	Peak
5230	96.41	-	-	87.44	34.49	8.33	33.85	100	322	Average
5230	106.8	-	-	97.83	34.49	8.33	33.85	100	322	Peak
5350	40.4	-13.6	54	31.19	34.58	8.47	33.84	100	322	Average
5350	50.79	-23.21	74	41.58	34.58	8.47	33.84	100	322	Peak
10460	57.35	-10.95	68.3	65.47	37.47	10.48	56.07	100	0	Peak
15690	52.43	-1.57	54	53.26	39.94	12.45	53.22	100	52	Average
15690	60.89	-13.11	74	61.72	39.94	12.45	53.22	100	52	Peak

Test Mode :	Mode 21	Temperature :	22~23°C
Test Channel :	54	Relative Humidity :	46~47%
Test Engineer :	Hayden Wu	Polarization :	Horizontal
Remark :	1. 5270 MHz is fundamental signal which can be ignored. 2. 10540 MHz is not within a restricted band.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5150	40.68	-13.32	54	31.86	34.42	8.25	33.85	100	354	Average
5150	50.84	-23.16	74	42.02	34.42	8.25	33.85	100	354	Peak
5270	94.78	-	-	85.72	34.51	8.39	33.84	100	354	Average
5270	106.51	-	-	97.45	34.51	8.39	33.84	100	354	Peak
5350	41.18	-12.82	54	31.97	34.58	8.47	33.84	100	354	Average
5350	51.11	-22.89	74	41.9	34.58	8.47	33.84	100	354	Peak
10540	54.99	-13.31	68.3	62.93	37.52	10.54	56	100	0	Peak
15810	52.97	-1.03	54	53.8	39.96	12.59	53.38	100	60	Average
15810	62.61	-11.39	74	63.44	39.96	12.59	53.38	100	60	Peak

Test Mode :	Mode 21	Temperature :	22~23°C
Test Channel :	54	Relative Humidity :	46~47%
Test Engineer :	Hayden Wu	Polarization :	Vertical
Remark :	1. 5270 MHz is fundamental signal which can be ignored. 2. 10540 MHz is not within a restricted band.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5150	40.93	-13.07	54	32.11	34.42	8.25	33.85	100	342	Average
5150	50.95	-23.05	74	42.13	34.42	8.25	33.85	100	342	Peak
5270	97.18	-	-	88.12	34.51	8.39	33.84	100	342	Average
5270	107.57	-	-	98.51	34.51	8.39	33.84	100	342	Peak
5350	42.27	-11.73	54	33.06	34.58	8.47	33.84	100	342	Average
5350	54.08	-19.92	74	44.87	34.58	8.47	33.84	100	342	Peak
10540	59.63	-8.67	68.3	67.57	37.52	10.54	56	100	0	Peak
15810	52.7	-1.3	54	53.53	39.96	12.59	53.38	100	337	Average
15810	64.4	-9.6	74	65.23	39.96	12.59	53.38	100	337	Peak



Test Mode :	Mode 22	Temperature :	22~23°C
Test Channel :	62	Relative Humidity :	46~47%
Test Engineer :	Hayden Wu	Polarization :	Horizontal
Remark :	5310 MHz is fundamental signal which can be ignored.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5150	40.48	-13.52	54	31.66	34.42	8.25	33.85	100	304	Average
5150	51.51	-22.49	74	42.69	34.42	8.25	33.85	100	304	Peak
5310	90.58	-	-	81.43	34.55	8.44	33.84	100	304	Average
5310	102.16	-	-	93.01	34.55	8.44	33.84	100	304	Peak
5350	49.02	-4.98	54	39.81	34.58	8.47	33.84	100	304	Average
5350	64.66	-9.34	74	55.45	34.58	8.47	33.84	100	304	Peak
10620	50.04	-23.96	74	58.37	37.4	9.87	55.6	100	0	Peak
15930	48.51	-25.49	74	53.74	40.17	11.74	57.14	100	0	Peak

Test Mode :	Mode 22	Temperature :	22~23°C
Test Channel :	62	Relative Humidity :	46~47%
Test Engineer :	Hayden Wu	Polarization :	Vertical
Remark :	5310 MHz is fundamental signal which can be ignored.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5150	40.94	-13.06	54	32.12	34.42	8.25	33.85	100	313	Average
5150	52.12	-21.88	74	43.3	34.42	8.25	33.85	100	313	Peak
5310	92.6	-	-	83.45	34.55	8.44	33.84	100	313	Average
5310	103.45	-	-	94.3	34.55	8.44	33.84	100	313	Peak
5350	44.16	-9.84	54	34.95	34.58	8.47	33.84	100	313	Average
5350	56.37	-17.63	74	47.16	34.58	8.47	33.84	100	313	Peak
10620	43.08	-10.92	54	51.41	37.4	9.87	55.6	119	338	Average
10620	53.2	-20.8	74	61.53	37.4	9.87	55.6	119	338	Peak
15930	48.77	-25.23	74	54	40.17	11.74	57.14	100	0	Peak

Test Mode :	Mode 23	Temperature :	22~23°C
Test Channel :	102	Relative Humidity :	46~47%
Test Engineer :	Hayden Wu	Polarization :	Horizontal
Remark :	1. 5510 MHz is fundamental signal which can be ignored. 2. 5470 MHz, 5725 MHz, and 16530 MHz are not within a restricted band.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5470	65.05	-3.25	68.3	55.61	34.67	8.61	33.84	100	43	Peak
5510	89.57	-	-	80.05	34.7	8.66	33.84	100	43	Average
5510	101.98	-	-	92.46	34.7	8.66	33.84	100	43	Peak
5725	52.49	-15.81	68.3	42.45	35.01	8.87	33.84	100	43	Peak
11020	49.26	-24.74	74	56.92	37.71	10.11	55.48	100	0	Peak
16530	49.81	-18.49	68.3	52.73	40.94	12.24	56.1	100	0	Peak

Test Mode :	Mode 23	Temperature :	22~23°C
Test Channel :	102	Relative Humidity :	46~47%
Test Engineer :	Hayden Wu	Polarization :	Vertical
Remark :	1. 5510 MHz is fundamental signal which can be ignored. 2. 5470 MHz, 5725 MHz, and 16530 MHz are not within a restricted band.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5470	62.86	-5.44	68.3	53.42	34.67	8.61	33.84	100	341	Peak
5510	92.79	-	-	83.27	34.7	8.66	33.84	100	341	Average
5510	102.7	-	-	93.18	34.7	8.66	33.84	100	341	Peak
5725	52.38	-15.92	68.3	42.34	35.01	8.87	33.84	100	341	Peak
11020	50.41	-23.59	74	58.07	37.71	10.11	55.48	100	0	Peak
16530	50.35	-17.95	68.3	53.29	40.92	12.24	56.1	100	0	Peak

Test Mode :	Mode 24	Temperature :	22~23°C
Test Channel :	110	Relative Humidity :	46~47%
Test Engineer :	Hayden Wu	Polarization :	Horizontal
Remark :	1. 5550 MHz is fundamental signal which can be ignored. 2. 5470 MHz, 5725 MHz, and 16650 MHz are not within a restricted band.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5470	49.86	-18.44	68.3	43.5	34.27	6.92	34.83	103	339	Peak
5550	92.33	-	-	85.76	34.38	7	34.81	103	339	Average
5550	102.66	-	-	96.09	34.38	7	34.81	103	339	Peak
5725	50.43	-17.87	68.3	43.45	34.66	7.17	34.85	103	339	Peak
11100	50.34	-23.66	74	57.9	37.75	10.13	55.44	100	0	Peak
16650	52.95	-15.35	68.3	55.74	41.09	12.26	56.14	100	0	Peak

Test Mode :	Mode 24	Temperature :	22~23°C
Test Channel :	110	Relative Humidity :	46~47%
Test Engineer :	Hayden Wu	Polarization :	Vertical
Remark :	1. 5550 MHz is fundamental signal which can be ignored. 2. 5470 MHz, 5725 MHz, and 16650 MHz are not within a restricted band.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5470	52.57	-15.73	68.3	46.21	34.27	6.92	34.83	110	8	Peak
5550	97.45	-	-	90.88	34.38	7	34.81	110	8	Average
5550	107.62	-	-	101.05	34.38	7	34.81	110	8	Peak
5725	50.76	-17.54	68.3	43.78	34.66	7.17	34.85	110	8	Peak
11100	41.15	-12.85	54	48.68	37.76	10.14	55.43	124	354	Average
16650	53.93	-14.37	68.3	56.74	41.07	12.25	56.13	100	0	Peak

Test Mode :	Mode 25	Temperature :	22~23°C
Test Channel :	134	Relative Humidity :	46~47%
Test Engineer :	Hayden Wu	Polarization :	Horizontal
Remark :	1. 5670 MHz is fundamental signal which can be ignored. 2. 5470, 5725 and 17010 MHz is not within a restricted band.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5470	52.81	-15.49	68.3	43.37	34.67	8.61	33.84	100	46	Peak
5670	94.26	-	-	84.34	34.94	8.82	33.84	100	46	Average
5670	105.29	-	-	95.37	34.94	8.82	33.84	100	46	Peak
5725	59.32	-8.98	68.3	49.28	35.01	8.87	33.84	100	46	Peak
11340	41.27	-12.73	54	48.45	37.9	10.22	55.3	100	9	Average
11340	51.71	-22.29	74	58.89	37.9	10.22	55.3	100	9	Peak
17010	54.95	-13.35	68.3	57.4	41.5	12.29	56.24	100	0	Peak

Test Mode :	Mode 25	Temperature :	22~23°C
Test Channel :	134	Relative Humidity :	46~47%
Test Engineer :	Hayden Wu	Polarization :	Vertical
Remark :	1. 5670 MHz is fundamental signal which can be ignored. 2. 5470, 5725 and 17010 MHz is not within a restricted band.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5470	52	-16.3	68.3	42.56	34.67	8.61	33.84	100	345	Peak
5670	96.15	-	-	86.23	34.94	8.82	33.84	100	345	Average
5670	106.23	-	-	96.31	34.94	8.82	33.84	100	345	Peak
5725	56.8	-11.5	68.3	46.76	35.01	8.87	33.84	100	345	Peak
11340	42.9	-11.1	54	50.08	37.9	10.22	55.3	101	50	Average
11340	52.41	-21.59	74	59.59	37.9	10.22	55.3	101	50	Peak
17010	54.43	-13.87	68.3	56.94	41.49	12.29	56.29	100	0	Peak

3.2 Antenna Requirements

3.2.1 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.

3.2.2 Antenna Connected Construction

The antenna type used in this product is PIFA Antenna with non-standard connector and it is considered to meet antenna requirement of FCC.

3.2.3 Antenna Gain

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

4 List of Measuring Equipments

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Power Meter	Anritsu	ML2495A	0932001	N/A	Sep. 18, 2011	May 23, 2012	Sep. 17, 2012	Conducted (TH02-HY)
Power Sensor	Anritsu	MA2411B	0846202	N/A	Sep. 18, 2011	May 23, 2012	Sep. 17, 2012	Conducted (TH02-HY)
Spectrum Analyzer	Agilent	E4408B	MY44211030	9KHz ~ 26.5GHz	Nov. 23, 2011	May 17, 2012 ~ May 23, 2012	Nov. 22, 2012	Radiation (03CH06-HY)
Spectrum Analyzer	R&S	FSP30	101352	9KHz-30GHz	Nov. 01, 2011	May 17, 2012 ~ May 23, 2012	Oct. 31, 2012	Radiation (03CH06-HY)
EMI Test Receiver	R&S	ESVS10	834468/003	20MHz ~ 1000MHz	May 04, 2012	May 17, 2012 ~ May 23, 2012	May. 03, 2013	Radiation (03CH06-HY)
Bilog Antenna	SCHAFFNER	CBL6112B	2885	30MHz ~ 2GHz	Oct. 22, 2011	May 17, 2012 ~ May 23, 2012	Oct. 21, 2012	Radiation (03CH06-HY)
Double Ridge Horn Antenna	EMCO	3117	00066583	1GHz ~ 18GHz	Aug. 01, 2011	May 17, 2012 ~ May 23, 2012	Jul. 31, 2012	Radiation (03CH06-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170251	15GHz ~ 40GHz	Oct. 21, 2011	May 17, 2012 ~ May 23, 2012	Oct. 20, 2012	Radiation (03CH06-HY)
Pre Amplifier	Agilent	8449B	3008A01917	1GHz ~ 26.5GHz	Apr. 13, 2012	May 17, 2012 ~ May 23, 2012	Apr. 12, 2013	Radiation (03CH06-HY)
Amplifier	Agilent	310N	186713	9KHz ~ 1GHz	Apr. 11, 2012	May 17, 2012 ~ May 23, 2012	Apr. 10, 2013	Radiation (03CH06-HY)
Pre Amplifier	EMCI	EMC051845	SN980048	1GHz ~ 18GHz	Jul. 18, 2011	May 17, 2012 ~ May 23, 2012	Jul. 17, 2012	Radiation (03CH06-HY)

5 Uncertainty of Evaluation

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 EP241954 as below.