

Partial FCC RF Test Report

APPLICANT : Getac Technology Corporation
EQUIPMENT : Notebook PC
BRAND NAME : Getac
MODEL NAME : B300
FCC ID : QYL3X01
STANDARD : FCC Part 15 Subpart C §15.247
CLASSIFICATION : Digital Transmission System (DTS)

This is a partial report which is only valid combined with the Integrated WLAN Module (Brand name: Intel / Model name: 633ANHMW, FCC ID: PD9633ANH) Report.

The product was received on May 25, 2010 and completely tested on Jun. 21, 2010. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.4-2003 and shown the compliance with the applicable technical standards.

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

Reviewed by:



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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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR052506-01B	Rev. 01	Initial issue of report	Jun. 29, 2010

SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.1	15.247(d)	A8.5	Frequency Band Edges	$\leq 20\text{dBc}$	Pass	-
3.2	15.207	Gen 7.2.2	AC Conducted Emission	15.207(a)	Pass	Under limit 3.6 dB at 23.998 MHz
3.3	15.247(d)	A8.5	Transmitter Radiated Emission	15.209(a) & 15.247(d)	Pass	Under limit 4.11 dB at 43.770 MHz
3.4	15.203 & 15.247(b)	A8.4	Antenna Requirement	N/A	Pass	-

1 General Description

1.1 Applicant

Getac Technology Corporation

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

1.2 Manufacturer

GeTAC Technology (Kunshan) LTD.

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

1.3 Feature of Equipment Under Test

Product Feature & Specification	
Equipment	Notebook PC
Brand Name	Getac
Model Name	B300
FCC ID	QYL3X01
Tx/Rx Frequency Range	802.11b/g/n : 2400 MHz ~ 2483.5 MHz 802.11a/n : 5725 MHz ~ 5850 MHz
Channel Spacing	802.11b/g : 5 MHz 802.11a : 20 MHz
Maximum Output Power to Antenna	<2400 MHz ~ 2483.5 MHz> 802.11b : 16.23 dBm (41.98 mW) 802.11g : 16.56 dBm (45.29 mW) 802.11n (BW 20MHz) : 16.49 dBm (44.57 mW) 802.11n (BW 40MHz) : 16.23 dBm (41.98 mW) <5725 MHz ~ 5850 MHz> 802.11a : 16.82 dBm (48.08 mW) 802.11n (BW 20MHz) : 16.66 dBm (46.34 mW) 802.11n (BW 40MHz) : 16.65 dBm (46.24 mW)
Antenna Type	802.11b/g/n : PIFA Antenna with gain 2.75 dBi 802.11a/n : PIFA Antenna with gain -0.3 dBi
HW Version	R0A
SW Version	R0.05.070520G
Type of Modulation	802.11b : DSSS (BPSK / QPSK / CCK) 802.11a/g/n : 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 Digital Transmission System (DTS).
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	03CH05HY	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 C §15.247
- FCC KDB Publication No. 558074 (Measurement Guidelines of DTS)
- ANSI C63.4-2003
- IC RSS-210 Issue 7

Remark:

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

1.6 Ancillary Equipment List

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m
2.	GPS Station	T&E	GS-50	N/A	N/A	Unshielded, 1.8 m
3.	WLAN AP	D-Link	DIR-628	KA2DIR628A2	N/A	Unshielded, 1.8 m
4.	Notebook	DELL	Vostro 1510	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
5.	Bluetooth Earphone	Nokia	BH-102	PYAHS-107W	N/A	N/A
6.	Earphone	Ergotech	ET-E200	FCC DoC	Unshielded, 1.8 m	N/A
7.	LCD Monitor	Acer	H223HQ	FCC DoC	N/A	Unshielded, 1.8 m
8.	iPod	Apple	A1285	FCC DoC	Shielded, 1.0 m	N/A
9.	Modem	ACEEX	DM1414	IFAXDM1414	Shielded, 1.15 m	N/A
10.	Mouse	State	MS-303	FCC DoC	Shielded, 1.3 m	N/A
11.	Exchange	Sun Moon Star	SMS-4 PLUS	95180108	Shielded, 1.6 m	N/A

2 Test Configuration of Equipment Under Test

2.1 RF Power

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

Channel	Frequency	802.11b RF Power (dBm)		
		Data Rate: 1Mbps		
		Chain A	Chain B	Chain C
CH 01	2412 MHz	15.95	16.16	15.94
CH 06	2437 MHz	15.83	16.23	16.02
CH 11	2462 MHz	15.83	15.89	15.79

Channel	Frequency	802.11g RF Power (dBm)		
		Data Rate: 6Mbps		
		Chain A	Chain B	Chain C
CH 01	2412 MHz	14.95	14.47	15.11
CH 06	2437 MHz	16.56	15.35	15.43
CH 11	2462 MHz	14.61	14.04	14.39

Channel	Frequency	802.11n (BW 20MHz) RF Power (dBm)		
		Data Rate: HT0		
		SISO		
		Chain A	Chain B	Chain C
CH 01	2412 MHz	14.45	14.30	15.01
CH 06	2437 MHz	15.48	16.28	16.20
CH 11	2462 MHz	14.36	14.58	15.22

Channel	Frequency	802.11n (BW 20MHz) RF Power (dBm)			
		Data Rate: HT0			Data Rate: HT0
		2Tx			3Tx
		Chain A+B	Chain A+C	Chain B+C	Chain A+B+C
CH 01	2412 MHz	14.24	14.36	14.60	14.33
CH 06	2437 MHz	16.34	16.35	16.49	15.67
CH 11	2462 MHz	14.49	14.56	14.42	14.01

Channel	Frequency	802.11n (BW 40MHz) RF Power (dBm)		
		Data Rate: HT0		
		SISO		
		Chain A	Chain B	Chain C
CH 03	2422 MHz	11.87	11.46	11.55
CH 06	2437 MHz	16.13	16.23	16.21
CH 09	2452 MHz	12.19	12.04	12.32

Channel	Frequency	802.11n (BW 40MHz) RF Power (dBm)			
		Data Rate: HT0			Data Rate: HT0
		2Tx			3Tx
		Chain A+B	Chain A+C	Chain B+C	Chain A+B+C
CH 03	2422 MHz	12.14	11.92	11.59	12.10
CH 06	2437 MHz	15.75	16.00	15.76	16.11
CH 09	2452 MHz	11.90	11.36	11.60	11.82

Channel	Frequency	802.11a RF Power (dBm)		
		Data Rate: 6Mbps		
		Chain A	Chain B	Chain C
CH149	5745 MHz	16.36	16.01	16.82
CH157	5785 MHz	16.52	16.00	16.39
CH165	5825 MHz	16.29	16.04	16.30

Channel	Frequency	802.11n (BW 20MHz) RF Power (dBm)		
		Data Rate: HT0		
		SISO		
		Chain A	Chain B	Chain C
CH149	5745 MHz	16.07	16.02	16.13
CH157	5785 MHz	16.40	16.00	16.05
CH165	5825 MHz	15.93	16.11	16.15

Channel	Frequency	802.11n (BW 20MHz) RF Power (dBm)			
		Data Rate: HT0			
		2Tx			3Tx
		Chain A+B	Chain A+C	Chain B+C	Chain A+B+C
CH149	5745 MHz	15.99	16.57	16.43	16.66
CH157	5785 MHz	15.86	16.52	16.33	15.77
CH165	5825 MHz	16.16	16.27	16.33	16.40

Channel	Frequency	802.11n (BW 40MHz) RF Power (dBm)		
		Data Rate: HT0		
		SISO		
		Chain A	Chain B	Chain C
CH 151	5755 MHz	15.98	16.06	16.44
CH 159	5795 MHz	16.24	16.01	16.35

Channel	Frequency	802.11n (BW 40MHz) RF Power (dBm)			
		Data Rate: HT0			Data Rate: HT0
		2Tx			3Tx
		Chain A+B	Chain A+C	Chain B+C	Chain A+B+C
CH 151	5755 MHz	15.82	16.33	15.77	16.65
CH 159	5795 MHz	15.68	16.53	16.40	16.50

Remark:

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

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: conducted emission (150 kHz to 30 MHz), radiated emission (30 MHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

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

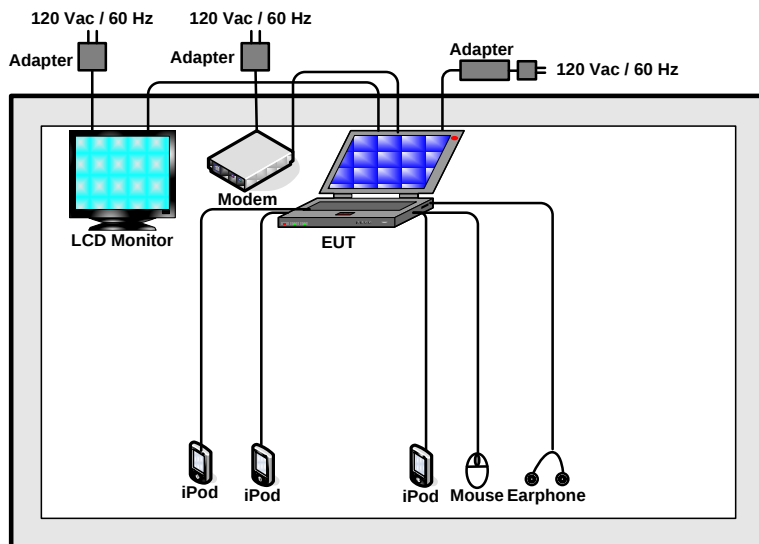
Test Cases	
Test Item	802.11b (Modulation : DSSS)
	802.11g/n (Modulation : OFDM)
	802.11a/n (Modulation : OFDM)
Radiated TCs	Mode 1: 802.11b_CH01_2412 MHz
	Mode 2: 802.11b_CH06_2437 MHz
	Mode 3: 802.11b_CH11_2462 MHz
	Mode 4: 802.11g_CH01_2412 MHz
	Mode 5: 802.11g_CH06_2437 MHz
	Mode 6: 802.11g_CH11_2462 MHz
	Mode 7: 802.11n_CH01_2412 MHz (BW 20M)
	Mode 8: 802.11n_CH06_2437 MHz (BW 20M)
	Mode 9: 802.11n_CH11_2462 MHz (BW 20M)
	Mode 10: 802.11n_CH03_2422 MHz (BW 40M)
	Mode 11: 802.11n_CH06_2437 MHz (BW 40M)
	Mode 12: 802.11n_CH09_2452 MHz (BW 40M)
	Mode 13: 802.11a_CH149_5745 MHz
	Mode 14: 802.11a_CH157_5785 MHz
	Mode 15: 802.11a_CH165_5825 MHz
	Mode 16: 802.11n_CH149_5745 MHz (BW 20M)
	Mode 17: 802.11n_CH157_5785 MHz (BW 20M)
	Mode 18: 802.11n_CH165_5825 MHz (BW 20M)
	Mode 19: 802.11n_CH151_5755 MHz (BW 40M)
	Mode 20: 802.11n_CH159_5795 MHz (BW 40M)



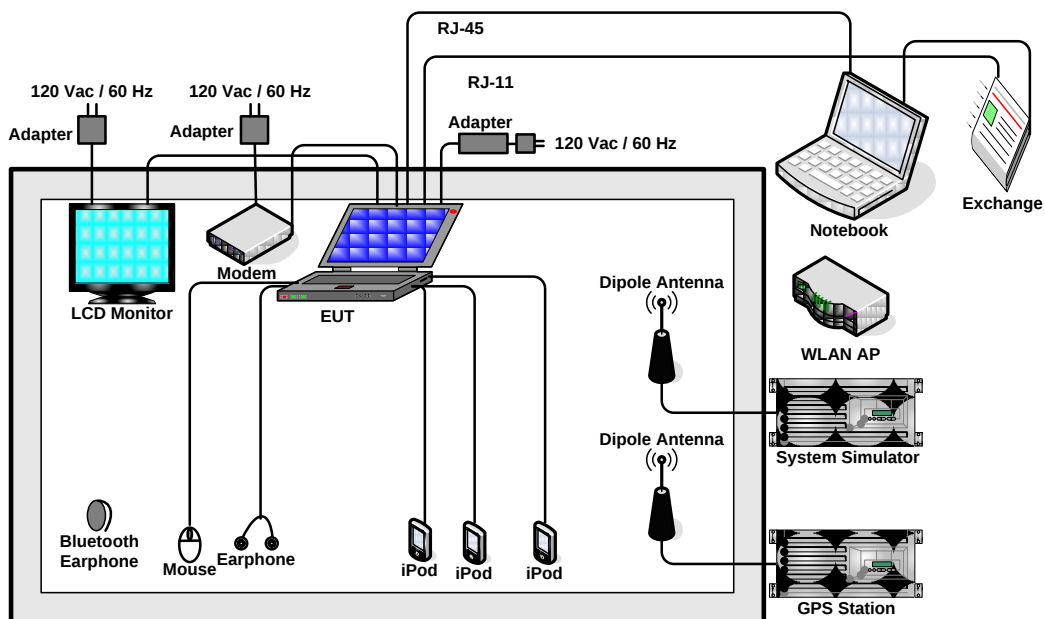
AC Conducted Emission	Mode 1 : CDMA2000 BC0 Idle + WLAN Link + Bluetooth Link + TC + Adapter 1
Remark: 1. TC stands for Test Configuration, and consists of GPS Rx, LCD monitor, modem, i-Pod, mouse, earphone, RJ-45, and RJ-11. 2. Mode 4~6, 10~12, and 16~20 of radiated emission only verify bandedge. 3. Only the radiated emission and conducted emission tests were performed in this report and the conducted test cases can be referred to the WLAN module (Brand name: Intel / Model name: 633ANHMW, FCC ID: PD9633ANH, AEGIS Report Number: INTEL-090526F-Rev. A1) report.	

2.3 Connection Diagram of Test System

<WLAN Tx Mode>



<EUT with TC Mode>





2.4 RF Utility

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

3 Test Result

3.1 Band Edges Measurement

3.1.1 Limit of Band Edges

In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. If the output power of this device was measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB.

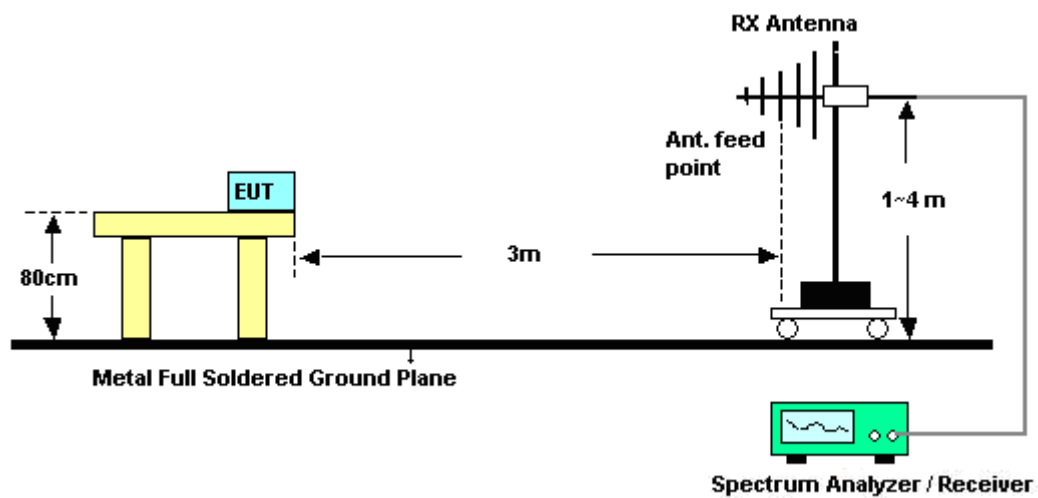
3.1.2 Measuring Instruments

See list of measuring instruments of this test report.

3.1.3 Test Procedures

1. The testing follows the guidelines in ANSI C63.4-2003 and FCC KDB Publication No. 558074 (Measurement Guidelines of DTS).
2. Conducted emission test: Set RBW = 100 kHz, Video bandwidth (VBW) > RBW. Band edge emissions must be at least 20 dB below the highest emission level within the authorized band as measured with a 100 kHz RBW. Note: If the output power of this device was measured by power meter, the attenuation under this paragraph shall be 30 dB instead of 20 dB.
3. Radiated emission test: Apply to band edge emissions that fall in the restricted bands listed in FCC Section 15.205. The maximum permitted average field strength is listed in FCC Section 15.209. A pre-amp is necessary for this measurement. For measurements above 1 GHz, set RBW = 1MHz, VBW = 10 Hz, Sweep=Auto. If the emission is pulsed, modify the unit for continuous operation; use the settings shown above, then correct the reading by subtracting the peak-average correction factor, derived from the appropriate duty cycle calculation as in FCC Section 15.35(b) and (c).

3.1.4 Test Setup



3.1.5 Test Result of Radiated Band Edges

Test Mode :	Mode 1	Temperature :	23~25°C
Test Band :	802.11b	Relative Humidity :	49~52%
Test Channel :	01	Test Engineer :	Cona Huang

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
2316.65	44.01	-29.99	74.00	43.93	31.73	4.41	36.06	101	82	Peak
2316.65	31.09	-22.91	54.00	31.01	31.73	4.41	36.06	101	82	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
2385.81	50.43	-23.57	74.00	50.18	31.86	4.47	36.08	127	12	Peak
2385.81	42.48	-11.52	54.00	42.23	31.86	4.47	36.08	127	12	Average

Test Mode :	Mode 3	Temperature :	23~25°C
Test Band :	802.11b	Relative Humidity :	49~52%
Test Channel :	11	Test Engineer :	Cona Huang

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
2483.50	47.60	-26.40	74.00	47.13	31.98	4.59	36.10	102	292	Peak
2483.50	39.35	-14.65	54.00	38.88	31.98	4.59	36.10	102	292	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
2483.50	52.71	-21.29	74.00	52.24	31.98	4.59	36.10	153	21	Peak
2483.50	46.88	-7.12	54.00	46.41	31.98	4.59	36.10	153	21	Average



Test Mode :	Mode 4	Temperature :	23~25°C
Test Band :	802.11g	Relative Humidity :	49~52%
Test Channel :	01	Test Engineer :	Cona Huang

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
2349.90	44.84	-29.16	74.00	44.69	31.78	4.44	36.07	100	85	Peak
2349.90	31.05	-22.95	54.00	30.90	31.78	4.44	36.07	100	85	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
2389.99	50.39	-23.61	74.00	50.11	31.86	4.50	36.08	106	59	Peak
2389.99	35.53	-18.47	54.00	35.25	31.86	4.50	36.08	106	59	Average

Test Mode :	Mode 6	Temperature :	23~25°C
Test Band :	802.11g	Relative Humidity :	49~52%
Test Channel :	11	Test Engineer :	Cona Huang

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
2483.85	47.68	-26.32	74.00	47.21	31.98	4.59	36.10	149	78	Peak
2483.85	33.07	-20.93	54.00	32.60	31.98	4.59	36.10	149	78	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
2486.89	59.63	-14.37	74.00	59.16	31.98	4.59	36.10	189	23	Peak
2486.89	35.06	-18.94	54.00	34.59	31.98	4.59	36.10	189	23	Average



Test Mode :	Mode 7	Temperature :	23~25°C
Test Band :	802.11n (BW 20MHz)	Relative Humidity :	49~52%
Test Channel :	01	Test Engineer :	Cona Huang

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
2389.99	49.88	-24.12	74.00	49.60	31.86	4.50	36.08	105	172	Peak
2389.99	34.53	-19.47	54.00	34.25	31.86	4.50	36.08	105	172	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
2389.99	52.22	-21.78	74.00	51.94	31.86	4.50	36.08	100	93	Peak
2389.99	35.52	-18.48	54.00	35.24	31.86	4.50	36.08	100	93	Average

Test Mode :	Mode 9	Temperature :	23~25°C
Test Band :	802.11n (BW 20MHz)	Relative Humidity :	49~52%
Test Channel :	11	Test Engineer :	Cona Huang

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
2483.50	56.27	-17.73	74.00	55.80	31.98	4.59	36.10	100	200	Peak
2483.50	38.64	-15.36	54.00	38.17	31.98	4.59	36.10	100	200	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
2483.66	56.07	-17.93	74.00	55.60	31.98	4.59	36.10	100	99	Peak
2483.66	37.81	-16.19	54.00	37.34	31.98	4.59	36.10	100	99	Average



Test Mode :	Mode 10	Temperature :	23~25°C
Test Band :	802.11n (BW 40MHz)	Relative Humidity :	49~52%
Test Channel :	03	Test Engineer :	Cona Huang

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
2311.33	43.30	-30.70	74.00	43.25	31.73	4.38	36.06	153	70	Peak
2311.33	30.55	-23.45	54.00	30.50	31.73	4.38	36.06	153	70	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
2389.99	46.53	-27.47	74.00	46.25	31.86	4.50	36.08	121	15	Peak
2389.99	32.67	-21.33	54.00	32.39	31.86	4.50	36.08	121	15	Average

Test Mode :	Mode 12	Temperature :	23~25°C
Test Band :	802.11n (BW 40MHz)	Relative Humidity :	49~52%
Test Channel :	09	Test Engineer :	Cona Huang

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
2483.85	44.86	-29.14	74.00	44.39	31.98	4.59	36.10	120	74	Peak
2483.85	31.81	-22.19	54.00	31.34	31.98	4.59	36.10	120	74	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
2483.85	49.68	-24.32	74.00	49.21	31.98	4.59	36.10	100	58	Peak
2483.85	32.91	-21.09	54.00	32.44	31.98	4.59	36.10	100	58	Average



Test Mode :	Mode 13	Temperature :	23~25°C
Test Band :	802.11a	Relative Humidity :	49~52%
Test Channel :	149	Test Engineer :	Cona Huang

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5725.00	68.45	-10.32	78.77	63.23	34.21	7.01	36.00	100	319	Peak

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5725.00	68.76	-11.93	80.69	63.54	34.21	7.01	36.00	101	330	Peak

Test Mode :	Mode 15	Temperature :	23~25°C
Test Band :	802.11a	Relative Humidity :	49~52%
Test Channel :	165	Test Engineer :	Cona Huang

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
5850.00	60.03	-18.12	78.15	54.78	34.16	7.09	36.00	100	318	Peak

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
5850.00	64.39	-17.14	81.53	59.14	34.16	7.09	36.00	101	327	Peak



Test Mode :	Mode 16	Temperature :	23~25°C
Test Band :	802.11n (BW 20MHz)	Relative Humidity :	49~52%
Test Channel :	149	Test Engineer :	Cona Huang

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5725.00	66.13	-11.70	77.83	60.91	34.21	7.01	36.00	160	41	Peak

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5725.00	73.86	-10.18	84.04	68.64	34.21	7.01	36.00	102	12	Peak

Test Mode :	Mode 18	Temperature :	23~25°C
Test Band :	802.11n (BW 20MHz)	Relative Humidity :	49~52%
Test Channel :	165	Test Engineer :	Cona Huang

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
5850.00	60.09	-20.44	80.53	54.84	34.16	7.09	36.00	100	35	Peak

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
5850.00	64.01	-22.58	86.59	58.76	34.16	7.09	36.00	101	14	Peak



Test Mode :	Mode 19	Temperature :	23~25°C
Test Band :	802.11n (BW 40MHz)	Relative Humidity :	49~52%
Test Channel :	151	Test Engineer :	Cona Huang

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5725.00	63.06	-12.98	76.04	57.84	34.21	7.01	36.00	163	39	Peak

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5725.00	70.64	-11.68	82.32	65.42	34.21	7.01	36.00	103	14	Peak

Test Mode :	Mode 20	Temperature :	23~25°C
Test Band :	802.11n (BW 40MHz)	Relative Humidity :	49~52%
Test Channel :	159	Test Engineer :	Cona Huang

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
5850.00	49.88	-27.75	77.63	44.63	34.16	7.09	36.00	100	38	Peak

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
5850.00	54.50	-28.76	83.26	49.25	34.16	7.09	36.00	101	14	Peak

3.2 AC Conducted Emission Measurement

3.2.1 Limit of AC Conducted Emission

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

Frequency of Emission (MHz)	Conducted Limit (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.

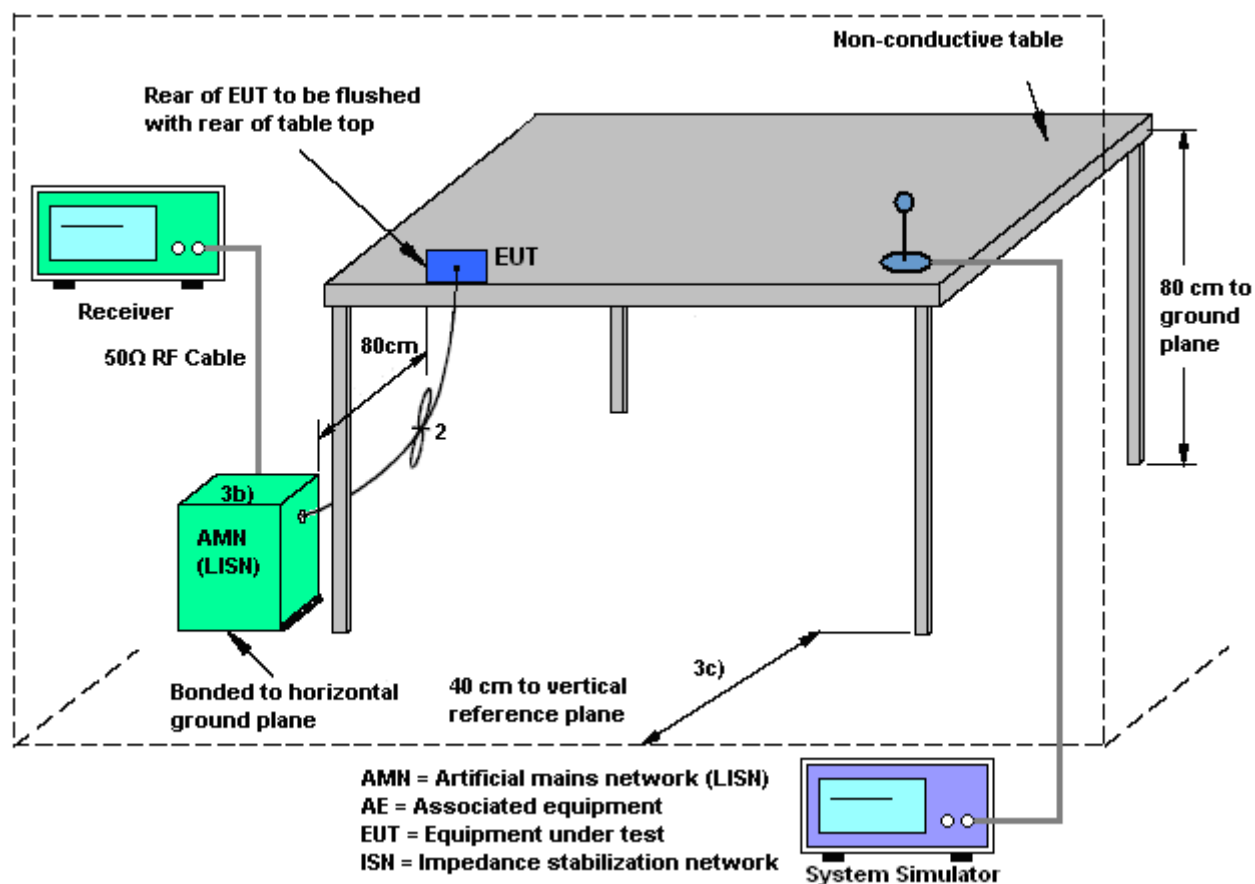
3.2.2 Measuring Instruments

See list of measuring instruments of this test report.

3.2.3 Test Procedures

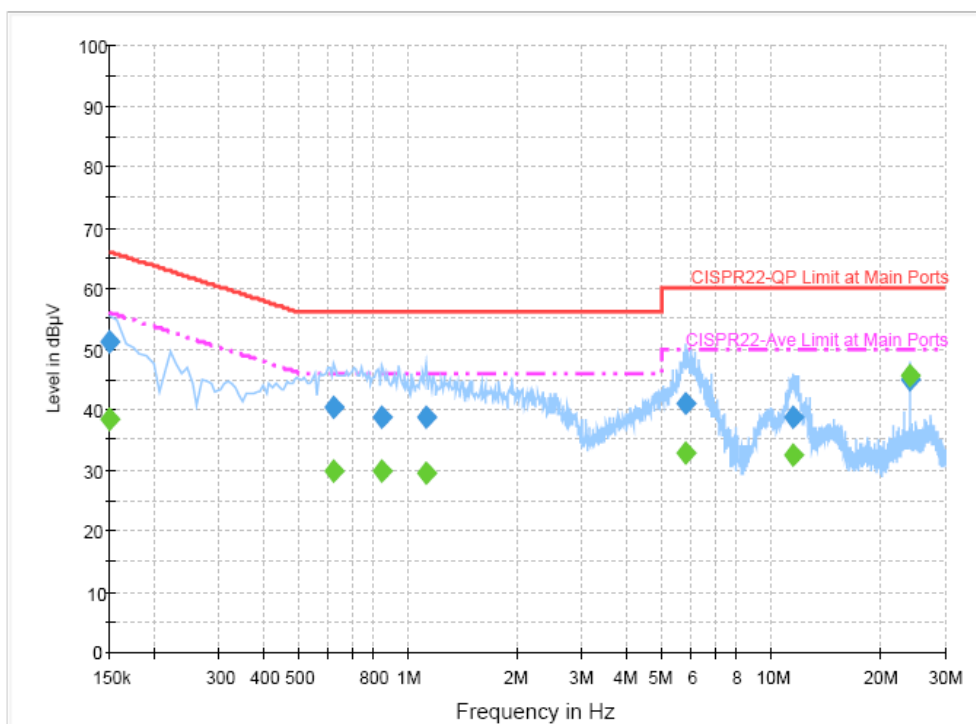
1. The testing follows the guidelines in ANSI C63.4-2003.
2. The EUT was placed 0.4 meter from the conducting wall of the shielding room, and it was kept at least 80 centimeters from any other grounded conducting surface.
3. Connect EUT to the power mains through a line impedance stabilization network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

3.2.4 Test Setup



3.2.5 Test Result of AC Conducted Emission

Test Mode :	Mode 1	Temperature :	20~22℃
Test Engineer :	Novic Jiang	Relative Humidity :	40~42%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	CDMA2000 BC0 Idle + WLAN Link + Bluetooth Link + TC + Adapter 1		
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



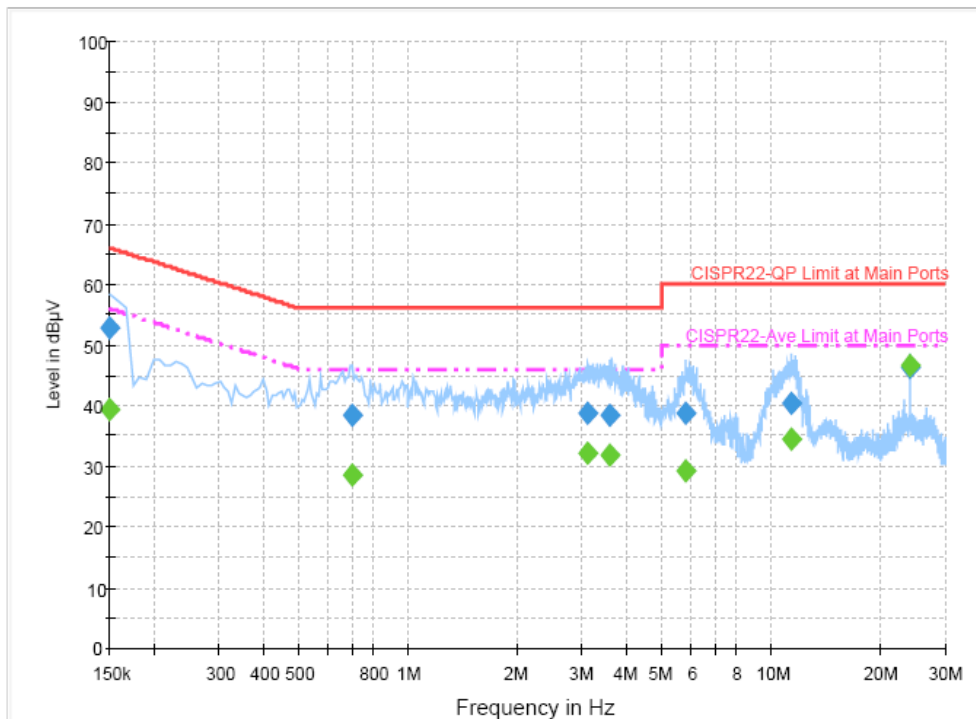
Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	51.0	Off	L1	19.5	15.0	66.0
0.622000	40.4	Off	L1	19.5	15.6	56.0
0.846000	38.8	Off	L1	19.5	17.2	56.0
1.118000	38.8	Off	L1	19.5	17.2	56.0
5.782000	41.0	Off	L1	19.5	19.0	60.0
11.430000	38.6	Off	L1	19.6	21.4	60.0
23.998000	45.1	Off	L1	19.7	14.9	60.0

Final Result 2

Frequency (MHz)	Average (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	38.4	Off	L1	19.5	17.6	56.0
0.622000	29.7	Off	L1	19.5	16.3	46.0
0.846000	29.9	Off	L1	19.5	16.1	46.0
1.118000	29.4	Off	L1	19.5	16.6	46.0
5.782000	32.6	Off	L1	19.5	17.4	50.0
11.430000	32.3	Off	L1	19.6	17.7	50.0
23.998000	45.5	Off	L1	19.7	4.5	50.0

Test Mode :	Mode 1	Temperature :	20~22°C
Test Engineer :	Novic Jiang	Relative Humidity :	40~42%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	CDMA2000 BC0 Idle + WLAN Link + Bluetooth Link + TC + 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)
0.150000	52.6	Off	N	19.5	13.4	66.0
0.702000	38.4	Off	N	19.5	17.6	56.0
3.102000	38.8	Off	N	19.5	17.2	56.0
3.574000	38.3	Off	N	19.5	17.7	56.0
5.790000	38.6	Off	N	19.5	21.4	60.0
11.366000	40.2	Off	N	19.6	19.8	60.0
23.998000	46.1	Off	N	19.9	13.9	60.0

Final Result 2

Frequency (MHz)	Average (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	39.5	Off	N	19.5	16.5	56.0
0.702000	28.7	Off	N	19.5	17.3	46.0
3.102000	32.2	Off	N	19.5	13.8	46.0
3.574000	31.9	Off	N	19.5	14.1	46.0
5.790000	29.1	Off	N	19.5	20.9	50.0
11.366000	34.4	Off	N	19.6	15.6	50.0
23.998000	46.4	Off	N	19.9	3.6	50.0

3.3 Radiated Emission Measurement

3.3.1 Limit of Radiated Emission

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device was measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the FCC section 15.209 limits as below.

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

3.3.2 Measuring Instruments

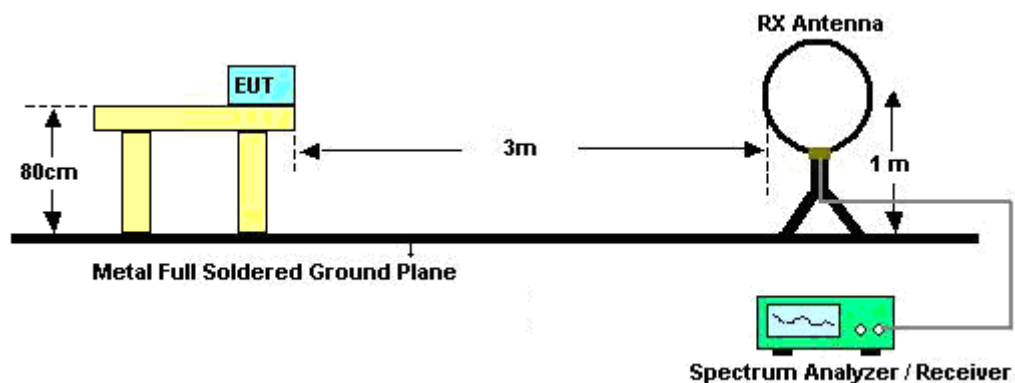
See list of measuring instruments of this test report.

3.3.3 Test Procedures

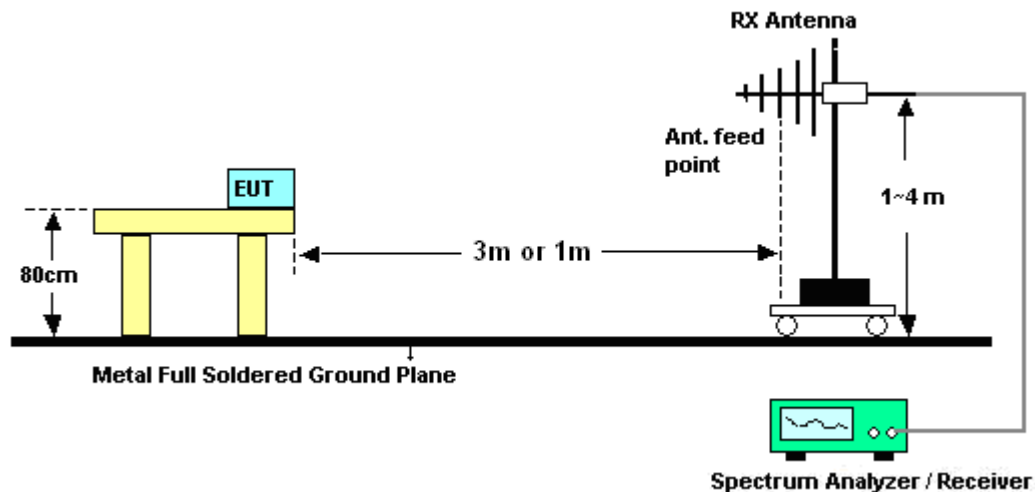
1. The testing follows the guidelines in FCC KDB Publication No. 558074 (Measurement Guidelines of DTS).
2. Use the following spectrum analyzer settings:
 - (1) Span = wide enough to fully capture the emission being measured; RBW = 1 MHz for $f \geq 1$ GHz, 100 kHz for $f < 1$ GHz; VBW $\geq$ RBW; Sweep = auto; Detector function = peak; Trace = max hold.
 - (2) Above 18 GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade from 3m to 1m.
Distance extrapolation factor = $20 \log (\text{specific distance [3m]} / \text{test distance [1m]})$ (dB)
3. Follow the guidelines in ANSI C63.4-2003 with respect to maximizing the emission by rotating the EUT, measuring the emission for three EUT orthogonal planes, and adjusting the measurement antenna height and polarization. A pre-amp and a high pass filter are used for this test in order to get the good signal level.

3.3.4 Test Setup

For radiated emissions below 30MHz



For radiated emissions above 30MHz



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

Test Engineer :	Cona Huang	Temperature :	23~25°C	
		Relative Humidity :	49~52%	
Frequency (MHz)	Level (dBuV)	Over Limit (dB)	Limit Line (dBuV)	Remark
-	-	-	-	See Note

Note:

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

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

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

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

Test Mode :	Mode 1	Temperature :	23~25°C
Test Channel :	01	Relative Humidity :	49~52%
Test Engineer :	Cona Huang	Polarization :	Horizontal
Remark :	2412 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
43.77	27.08	-12.92	40.00	46.97	10.93	0.73	31.55	-	-	Peak
166.62	23.17	-20.33	43.50	43.72	9.84	1.14	31.53	-	-	Peak
240.06	34.87	-11.13	46.00	53.36	11.68	1.34	31.51	100	125	Peak
335.00	34.28	-11.72	46.00	49.30	14.65	1.63	31.30	-	-	Peak
478.50	30.75	-15.25	46.00	42.01	17.87	1.98	31.11	-	-	Peak
780.20	30.30	-15.70	46.00	37.56	20.74	2.54	30.54	-	-	Peak
2316.65	44.01	-29.99	74.00	43.93	31.73	4.41	36.06	101	82	Peak
2316.65	31.09	-22.91	54.00	31.01	31.73	4.41	36.06	101	82	Average
2412.00	94.38	-	-	94.08	31.88	4.50	36.08	101	82	Peak
2412.00	90.86	-	-	90.56	31.88	4.50	36.08	101	82	Average
2484.00	42.31	-31.69	74.00	41.84	31.98	4.59	36.10	101	82	Peak
2484.00	30.92	-23.08	54.00	30.45	31.98	4.59	36.10	101	82	Average
8244.00	50.25	-23.75	74.00	42.18	35.75	8.97	36.65	100	107	Peak
8244.00	39.64	-14.36	54.00	31.57	35.75	8.97	36.65	100	107	Average

Test Mode :	Mode 1	Temperature :	23~25°C
Test Channel :	01	Relative Humidity :	49~52%
Test Engineer :	Cona Huang	Polarization :	Vertical
Remark :	2412 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
41.61	34.80	-5.20	40.00	54.00	11.75	0.58	31.53	100	305	Peak
107.49	30.51	-12.99	43.50	48.93	12.16	0.95	31.53	-	-	Peak
129.90	30.96	-12.54	43.50	49.03	12.38	1.07	31.52	-	-	Peak
335.00	31.76	-14.24	46.00	46.78	14.65	1.63	31.30	-	-	Peak
528.20	34.31	-11.69	46.00	44.44	18.78	2.10	31.01	-	-	Peak
799.80	34.43	-11.57	46.00	41.65	20.75	2.57	30.54	-	-	Peak
2385.81	50.43	-23.57	74.00	50.18	31.86	4.47	36.08	127	12	Peak
2385.81	42.48	-11.52	54.00	42.23	31.86	4.47	36.08	127	12	Average
2412.00	103.18	-	-	102.88	31.88	4.50	36.08	127	12	Peak
2412.00	99.90	-	-	99.60	31.88	4.50	36.08	127	12	Average
2500.00	43.54	-30.46	74.00	43.02	32.00	4.62	36.10	127	12	Peak
2500.00	31.42	-22.58	54.00	30.90	32.00	4.62	36.10	127	12	Average
8232.00	50.54	-23.46	74.00	42.50	35.76	8.93	36.65	105	204	Peak
8232.00	39.49	-14.51	54.00	31.45	35.76	8.93	36.65	105	204	Average

Test Mode :	Mode 2	Temperature :	23~25°C
Test Channel :	06	Relative Humidity :	49~52%
Test Engineer :	Cona Huang	Polarization :	Horizontal
Remark :	2437 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
43.77	28.58	-11.42	40.00	48.47	10.93	0.73	31.55	100	59	Peak
165.81	23.30	-20.20	43.50	43.82	9.87	1.14	31.53	-	-	Peak
240.06	34.49	-11.51	46.00	52.98	11.68	1.34	31.51	-	-	Peak
335.00	33.69	-12.31	46.00	48.71	14.65	1.63	31.30	-	-	Peak
478.50	31.46	-14.54	46.00	42.72	17.87	1.98	31.11	-	-	Peak
780.20	32.59	-13.41	46.00	39.85	20.74	2.54	30.54	-	-	Peak
2340.00	42.80	-31.20	74.00	42.65	31.78	4.44	36.07	192	242	Peak
2340.00	30.98	-23.02	54.00	30.83	31.78	4.44	36.07	192	242	Average
2437.00	96.02	-	-	95.68	31.90	4.53	36.09	192	242	Peak
2437.00	92.17	-	-	91.80	31.93	4.53	36.09	192	242	Average
2494.00	42.72	-31.28	74.00	42.20	32.00	4.62	36.10	192	242	Peak
2494.00	30.87	-23.13	54.00	30.35	32.00	4.62	36.10	192	242	Average
8211.00	50.97	-23.03	74.00	42.92	35.76	8.93	36.64	100	329	Peak
8211.00	40.20	-13.80	54.00	32.15	35.76	8.93	36.64	100	329	Average

Test Mode :	Mode 2	Temperature :	23~25°C
Test Channel :	06	Relative Humidity :	49~52%
Test Engineer :	Cona Huang	Polarization :	Vertical
Remark :	2437 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
43.77	35.55	-4.45	40.00	55.44	10.93	0.73	31.55	100	88	Peak
107.22	30.00	-13.50	43.50	48.54	12.04	0.95	31.53	-	-	Peak
129.90	30.98	-12.52	43.50	49.05	12.38	1.07	31.52	-	-	Peak
335.00	32.21	-13.79	46.00	47.23	14.65	1.63	31.30	-	-	Peak
528.20	34.24	-11.76	46.00	44.37	18.78	2.10	31.01	-	-	Peak
799.80	34.69	-11.31	46.00	41.91	20.75	2.57	30.54	-	-	Peak
2390.00	44.78	-29.22	74.00	44.50	31.86	4.50	36.08	100	17	Peak
2390.00	33.88	-20.12	54.00	33.60	31.86	4.50	36.08	100	17	Average
2437.00	104.14	-	-	103.80	31.90	4.53	36.09	100	17	Peak
2437.00	100.77	-	-	100.40	31.93	4.53	36.09	100	17	Average
2500.00	43.69	-30.31	74.00	43.17	32.00	4.62	36.10	100	17	Peak
2500.00	31.36	-22.64	54.00	30.84	32.00	4.62	36.10	100	17	Average
8244.00	50.47	-23.53	74.00	42.40	35.75	8.97	36.65	100	137	Peak
8244.00	40.33	-13.67	54.00	32.26	35.75	8.97	36.65	100	137	Average

Test Mode :	Mode 3	Temperature :	23~25°C
Test Channel :	11	Relative Humidity :	49~52%
Test Engineer :	Cona Huang	Polarization :	Horizontal
Remark :	2462 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	32.83	-7.17	40.00	53.98	9.68	0.73	31.56	100	15	Peak
164.73	22.67	-20.83	43.50	43.16	9.89	1.14	31.52	-	-	Peak
240.06	35.43	-10.57	46.00	53.92	11.68	1.34	31.51	-	-	Peak
335.00	34.65	-11.35	46.00	49.67	14.65	1.63	31.30	-	-	Peak
478.50	31.26	-14.74	46.00	42.52	17.87	1.98	31.11	-	-	Peak
780.20	30.51	-15.49	46.00	37.77	20.74	2.54	30.54	-	-	Peak
2382.00	42.76	-31.24	74.00	42.54	31.83	4.47	36.08	102	292	Peak
2382.00	30.60	-23.40	54.00	30.38	31.83	4.47	36.08	102	292	Average
2462.00	94.03	-	-	93.61	31.95	4.56	36.09	102	292	Peak
2462.00	90.21	-	-	89.79	31.95	4.56	36.09	102	292	Average
2483.50	47.60	-26.40	74.00	47.13	31.98	4.59	36.10	102	292	Peak
2483.50	39.35	-14.65	54.00	38.88	31.98	4.59	36.10	102	292	Average
8196.00	51.38	-22.62	74.00	43.36	35.76	8.90	36.64	100	218	Peak
8196.00	39.88	-14.12	54.00	31.86	35.76	8.90	36.64	100	218	Average

Test Mode :	Mode 3	Temperature :	23~25°C
Test Channel :	11	Relative Humidity :	49~52%
Test Engineer :	Cona Huang	Polarization :	Vertical
Remark :	2462 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
43.77	35.89	-4.11	40.00	55.78	10.93	0.73	31.55	110	319	Peak
106.14	29.73	-13.77	43.50	48.40	11.92	0.95	31.54	-	-	Peak
129.90	31.38	-12.12	43.50	49.45	12.38	1.07	31.52	-	-	Peak
335.00	31.69	-14.31	46.00	46.71	14.65	1.63	31.30	-	-	Peak
528.20	34.19	-11.81	46.00	44.32	18.78	2.10	31.01	-	-	Peak
799.80	34.59	-11.41	46.00	41.81	20.75	2.57	30.54	-	-	Peak
2390.00	43.39	-30.61	74.00	43.11	31.86	4.50	36.08	153	21	Peak
2390.00	31.62	-22.38	54.00	31.34	31.86	4.50	36.08	153	21	Average
2462.00	101.31	-	-	100.89	31.95	4.56	36.09	153	21	Peak
2462.00	97.76	-	-	97.34	31.95	4.56	36.09	153	21	Average
2483.50	52.71	-21.29	74.00	52.24	31.98	4.59	36.10	153	21	Peak
2483.50	46.88	-7.12	54.00	46.41	31.98	4.59	36.10	153	21	Average
8169.00	50.04	-23.96	74.00	42.03	35.77	8.87	36.63	100	154	Peak
8169.00	40.11	-13.89	54.00	32.10	35.77	8.87	36.63	100	154	Average



Test Mode :	Mode 4	Temperature :	23~25°C
Test Channel :	01	Relative Humidity :	49~52%
Test Engineer :	Cona Huang	Polarization :	Horizontal
Remark :	2412 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
2349.90	44.84	-29.16	74.00	44.69	31.78	4.44	36.07	100	85	Peak
2349.90	31.05	-22.95	54.00	30.90	31.78	4.44	36.07	100	85	Average
2412.00	92.21	-	-	91.91	31.88	4.50	36.08	100	85	Peak
2412.00	82.57	-	-	82.27	31.88	4.50	36.08	100	85	Average
2486.00	42.44	-31.56	74.00	41.97	31.98	4.59	36.10	100	85	Peak
2486.00	31.07	-22.93	54.00	30.60	31.98	4.59	36.10	100	85	Average



Test Mode :	Mode 4	Temperature :	23~25°C
Test Channel :	01	Relative Humidity :	49~52%
Test Engineer :	Cona Huang	Polarization :	Vertical
Remark :	2412 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
2389.99	50.39	-23.61	74.00	50.11	31.86	4.50	36.08	106	59	Peak
2389.99	35.53	-18.47	54.00	35.25	31.86	4.50	36.08	106	59	Average
2412.00	88.57	-	-	88.27	31.88	4.50	36.08	106	59	Average
2412.00	97.53	-	-	97.23	31.88	4.50	36.08	106	59	Peak
2484.00	43.01	-30.99	74.00	42.54	31.98	4.59	36.10	0	0	Peak
2484.00	31.39	-22.61	54.00	30.92	31.98	4.59	36.10	106	59	Average



Test Mode :	Mode 5	Temperature :	23~25°C
Test Channel :	06	Relative Humidity :	49~52%
Test Engineer :	Cona Huang	Polarization :	Horizontal
Remark :	2437 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
2382.00	43.16	-30.84	74.00	42.94	31.83	4.47	36.08	100	287	Peak
2382.00	30.72	-23.28	54.00	30.50	31.83	4.47	36.08	100	287	Average
2437.00	80.99	-	-	80.62	31.93	4.53	36.09	100	287	Average
2437.00	90.35	-	-	89.95	31.93	4.56	36.09	100	287	Peak
2494.00	42.56	-31.44	74.00	42.04	32.00	4.62	36.10	100	287	Peak
2494.00	30.98	-23.02	54.00	30.46	32.00	4.62	36.10	100	287	Average



Test Mode :	Mode 5	Temperature :	23~25°C
Test Channel :	06	Relative Humidity :	49~52%
Test Engineer :	Cona Huang	Polarization :	Vertical
Remark :	2437 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
2340.00	43.22	-30.78	74.00	43.07	31.78	4.44	36.07	121	17	Peak
2340.00	31.14	-22.86	54.00	30.99	31.78	4.44	36.07	121	17	Average
2437.00	100.45	-	-	100.11	31.90	4.53	36.09	121	17	Peak
2437.00	91.05	-	-	90.68	31.93	4.53	36.09	121	17	Average
2486.00	43.56	-30.44	74.00	43.09	31.98	4.59	36.10	121	17	Peak
2486.00	31.54	-22.46	54.00	31.07	31.98	4.59	36.10	121	17	Average

Test Mode :	Mode 6	Temperature :	23~25°C
Test Channel :	11	Relative Humidity :	49~52%
Test Engineer :	Cona Huang	Polarization :	Horizontal
Remark :	2462 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
2350.00	43.00	-31.00	74.00	42.85	31.78	4.44	36.07	149	78	Peak
2350.00	30.97	-23.03	54.00	30.82	31.78	4.44	36.07	149	78	Average
2462.00	93.24	-	-	92.82	31.95	4.56	36.09	149	78	Peak
2462.00	83.80	-	-	83.38	31.95	4.56	36.09	149	78	Average
2483.85	47.68	-26.32	74.00	47.21	31.98	4.59	36.10	149	78	Peak
2483.85	33.07	-20.93	54.00	32.60	31.98	4.59	36.10	149	78	Average

Test Mode :	Mode 6	Temperature :	23~25°C
Test Channel :	11	Relative Humidity :	49~52%
Test Engineer :	Cona Huang	Polarization :	Vertical
Remark :	2462 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
2374.00	43.39	-30.61	74.00	43.16	31.83	4.47	36.07	189	23	Peak
2374.00	31.34	-22.66	54.00	31.11	31.83	4.47	36.07	189	23	Average
2462.00	100.20	-	-	99.78	31.95	4.56	36.09	189	23	Peak
2462.00	90.66	-	-	90.24	31.95	4.56	36.09	189	23	Average
2486.89	59.63	-14.37	74.00	59.16	31.98	4.59	36.10	189	23	Peak
2486.89	35.06	-18.94	54.00	34.59	31.98	4.59	36.10	189	23	Average

Test Mode :	Mode 7	Temperature :	23~25°C
Test Channel :	01	Relative Humidity :	49~52%
Test Engineer :	Cona Huang	Polarization :	Horizontal
Remark :	2412 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
43.77	28.85	-11.15	40.00	48.74	10.93	0.73	31.55	-	-	Peak
165.81	23.59	-19.91	43.50	44.11	9.87	1.14	31.53	-	-	Peak
240.06	34.88	-11.12	46.00	53.37	11.68	1.34	31.51	100	329	Peak
335.00	33.06	-12.94	46.00	48.08	14.65	1.63	31.30	-	-	Peak
528.20	30.81	-15.19	46.00	40.94	18.78	2.10	31.01	-	-	Peak
780.20	31.13	-14.87	46.00	38.39	20.74	2.54	30.54	-	-	Peak
2389.99	49.88	-24.12	74.00	49.60	31.86	4.50	36.08	105	172	Peak
2389.99	34.53	-19.47	54.00	34.25	31.86	4.50	36.08	105	172	Average
2412.00	102.38	-	-	102.08	31.88	4.50	36.08	105	172	Peak
2412.00	90.55	-	-	90.25	31.88	4.50	36.08	105	172	Average
2494.00	31.09	-22.91	54.00	30.57	32.00	4.62	36.10	105	172	Average
2494.00	43.77	-30.23	74.00	43.25	32.00	4.62	36.10	105	172	Peak
8205.00	53.20	-20.80	74.00	45.18	35.76	8.90	36.64	100	175	Peak
8205.00	37.90	-16.10	54.00	29.88	35.76	8.90	36.64	100	175	Average

Test Mode :	Mode 7	Temperature :	23~25°C
Test Channel :	01	Relative Humidity :	49~52%
Test Engineer :	Cona Huang	Polarization :	Vertical
Remark :	2412 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
43.77	35.42	-4.58	40.00	55.31	10.93	0.73	31.55	100	74	Peak
107.22	29.15	-14.35	43.50	47.69	12.04	0.95	31.53	-	-	Peak
129.90	31.34	-12.16	43.50	49.41	12.38	1.07	31.52	-	-	Peak
335.00	32.15	-13.85	46.00	47.17	14.65	1.63	31.30	-	-	Peak
528.20	33.84	-12.16	46.00	43.97	18.78	2.10	31.01	-	-	Peak
799.80	34.47	-11.53	46.00	41.69	20.75	2.57	30.54	-	-	Peak
2389.99	35.52	-18.48	54.00	35.24	31.86	4.50	36.08	100	93	Average
2389.99	52.22	-21.78	74.00	51.94	31.86	4.50	36.08	100	93	Peak
2412.00	102.13	-	-	101.83	31.88	4.50	36.08	100	93	Peak
2412.00	90.17	-	-	89.87	31.88	4.50	36.08	100	93	Average
2500.00	43.46	-30.54	74.00	42.94	32.00	4.62	36.10	100	93	Peak
2500.00	31.15	-22.85	54.00	30.63	32.00	4.62	36.10	100	93	Average
8205.00	53.23	-20.77	74.00	45.21	35.76	8.90	36.64	100	17	Peak
8205.00	37.91	-16.09	54.00	29.89	35.76	8.90	36.64	100	17	Average



Test Mode :	Mode 8	Temperature :	23~25°C
Test Channel :	06	Relative Humidity :	49~52%
Test Engineer :	Cona Huang	Polarization :	Horizontal
Remark :	2437 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
43.77	23.91	-16.09	40.00	43.80	10.93	0.73	31.55	-	-	Peak
166.62	23.18	-20.32	43.50	43.73	9.84	1.14	31.53	-	-	Peak
240.06	34.61	-11.39	46.00	53.10	11.68	1.34	31.51	100	107	Peak
335.00	33.50	-12.50	46.00	48.52	14.65	1.63	31.30	-	-	Peak
478.50	31.65	-14.35	46.00	42.91	17.87	1.98	31.11	-	-	Peak
780.20	32.70	-13.30	46.00	39.96	20.74	2.54	30.54	-	-	Peak
2364.00	44.31	-29.69	74.00	44.13	31.81	4.44	36.07	102	200	Peak
2364.00	31.70	-22.30	54.00	31.52	31.81	4.44	36.07	102	200	Average
2437.00	93.39	-	-	93.02	31.93	4.53	36.09	102	200	Average
2437.00	104.94	-	-	104.60	31.90	4.53	36.09	102	200	Peak
2494.00	31.89	-22.11	54.00	31.37	32.00	4.62	36.10	102	200	Average
2494.00	43.81	-30.19	74.00	43.29	32.00	4.62	36.10	102	200	Peak
8214.00	52.88	-21.12	74.00	44.84	35.76	8.93	36.65	100	197	Peak
8214.00	37.94	-16.06	54.00	29.90	35.76	8.93	36.65	100	197	Average

Test Mode :	Mode 8	Temperature :	23~25°C
Test Channel :	06	Relative Humidity :	49~52%
Test Engineer :	Cona Huang	Polarization :	Vertical
Remark :	2437 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
42.69	34.30	-5.70	40.00	53.77	11.34	0.73	31.54	100	117	Peak
107.22	29.00	-14.50	43.50	47.54	12.04	0.95	31.53	-	-	Peak
129.90	32.06	-11.44	43.50	50.13	12.38	1.07	31.52	-	-	Peak
335.00	31.84	-14.16	46.00	46.86	14.65	1.63	31.30	-	-	Peak
528.20	33.95	-12.05	46.00	44.08	18.78	2.1	31.01	-	-	Peak
799.80	34.40	-11.60	46.00	41.62	20.75	2.57	30.54	-	-	Peak
2340.00	44.04	-29.96	74.00	43.89	31.78	4.44	36.07	100	99	Peak
2340.00	31.81	-22.19	54.00	31.66	31.78	4.44	36.07	100	99	Average
2437.00	91.61	-	-	91.24	31.93	4.53	36.09	100	99	Average
2437.00	103.15	-	-	102.81	31.90	4.53	36.09	100	99	Peak
2500.00	31.46	-22.54	54.00	30.94	32.00	4.62	36.10	100	99	Average
2500.00	43.42	-30.58	74.00	42.90	32.00	4.62	36.10	100	99	Peak
8202.00	52.47	-21.53	74.00	44.45	35.76	8.90	36.64	100	57	Peak
8202.00	37.69	-16.31	54.00	29.67	35.76	8.90	36.64	100	57	Average



Test Mode :	Mode 9	Temperature :	23~25°C
Test Channel :	11	Relative Humidity :	49~52%
Test Engineer :	Cona Huang	Polarization :	Horizontal
Remark :	2462 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
46.20	31.17	-8.83	40.00	52.32	9.68	0.73	31.56	100	151	Peak
129.90	22.88	-20.62	43.50	40.95	12.38	1.07	31.52	-	-	Peak
240.06	35.08	-10.92	46.00	53.57	11.68	1.34	31.51	-	-	Peak
335.00	33.06	-12.94	46.00	48.08	14.65	1.63	31.30	-	-	Peak
478.50	30.91	-15.09	46.00	42.17	17.87	1.98	31.11	-	-	Peak
780.20	32.00	-14.00	46.00	39.26	20.74	2.54	30.54	-	-	Peak
2364.00	43.07	-30.93	74.00	42.89	31.81	4.44	36.07	100	200	Peak
2364.00	31.33	-22.67	54.00	31.15	31.81	4.44	36.07	100	200	Average
2462.00	103.56	-	-	103.11	31.95	4.59	36.09	100	200	Peak
2462.00	91.02	-	-	90.60	31.95	4.56	36.09	100	200	Average
2483.50	38.64	-15.36	54.00	38.17	31.98	4.59	36.10	100	200	Average
2483.50	56.27	-17.73	74.00	55.80	31.98	4.59	36.10	100	200	Peak
8250.00	52.55	-21.45	74.00	44.48	35.75	8.97	36.65	100	54	Peak
8250.00	37.75	-16.25	54.00	29.68	35.75	8.97	36.65	100	54	Average

Test Mode :	Mode 9	Temperature :	23~25°C
Test Channel :	11	Relative Humidity :	49~52%
Test Engineer :	Cona Huang	Polarization :	Vertical
Remark :	2462 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
41.61	34.86	-5.14	40.00	54.06	11.75	0.58	31.53	103	205	Peak
107.22	28.77	-14.73	43.50	47.31	12.04	0.95	31.53	-	-	Peak
129.90	30.71	-12.79	43.50	48.78	12.38	1.07	31.52	-	-	Peak
335.00	31.85	-14.15	46.00	46.87	14.65	1.63	31.30	-	-	Peak
528.20	33.81	-12.19	46.00	43.94	18.78	2.10	31.01	-	-	Peak
799.80	34.82	-11.18	46.00	42.04	20.75	2.57	30.54	-	-	Peak
2342.00	43.82	-30.18	74.00	43.67	31.78	4.44	36.07	100	99	Peak
2342.00	31.73	-22.27	54.00	31.58	31.78	4.44	36.07	100	99	Average
2462.00	101.56	-	-	101.14	31.95	4.56	36.09	100	99	Peak
2462.00	89.14	-	-	88.72	31.95	4.56	36.09	100	99	Average
2483.66	37.81	-16.19	54.00	37.34	31.98	4.59	36.10	100	99	Average
2483.66	56.07	-17.93	74.00	55.60	31.98	4.59	36.10	100	99	Peak
8217.00	53.31	-20.69	74.00	45.27	35.76	8.93	36.65	100	285	Peak
8217.00	38.00	-16.00	54.00	29.96	35.76	8.93	36.65	100	285	Average



Test Mode :	Mode 10	Temperature :	23~25°C
Test Channel :	03	Relative Humidity :	49~52%
Test Engineer :	Cona Huang	Polarization :	Horizontal
Remark :	2422 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
2311.33	30.55	-23.45	54.00	30.50	31.73	4.38	36.06	153	70	Average
2311.33	43.30	-30.70	74.00	43.25	31.73	4.38	36.06	153	70	Peak
2422.00	69.73	-	-	69.38	31.90	4.53	36.08	153	70	Average
2422.00	80.30	-	-	79.96	31.90	4.53	36.09	153	70	Peak
2494.00	42.02	-31.98	74.00	41.50	32.00	4.62	36.10	153	70	Peak
2494.00	30.18	-23.82	54.00	29.66	32.00	4.62	36.10	153	70	Average



Test Mode :	Mode 10	Temperature :	23~25°C
Test Channel :	03	Relative Humidity :	49~52%
Test Engineer :	Cona Huang	Polarization :	Vertical
Remark :	2422 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
2389.99	46.53	-27.47	74.00	46.25	31.86	4.50	36.08	121	15	Peak
2389.99	32.67	-21.33	54.00	32.39	31.86	4.50	36.08	121	15	Average
2422.00	86.47	-	-	86.13	31.90	4.53	36.09	121	15	Peak
2422.00	76.33	-	-	75.98	31.90	4.53	36.08	121	15	Average
2492.00	41.91	-32.09	74.00	41.39	32.00	4.62	36.10	121	15	Peak
2492.00	30.26	-23.74	54.00	29.74	32.00	4.62	36.10	121	15	Average



Test Mode :	Mode 11	Temperature :	23~25°C
Test Channel :	06	Relative Humidity :	49~52%
Test Engineer :	Cona Huang	Polarization :	Horizontal
Remark :	2437 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
2324.00	42.83	-31.17	74.00	42.72	31.76	4.41	36.06	200	247	Peak
2324.00	30.24	-23.76	54.00	30.13	31.76	4.41	36.06	200	247	Average
2437.00	76.18	-	-	75.81	31.93	4.53	36.09	200	247	Average
2437.00	86.27	-	-	85.93	31.90	4.53	36.09	200	247	Peak
2500.00	30.36	-23.64	54.00	29.84	32.00	4.62	36.10	200	247	Average
2500.00	42.45	-31.55	74.00	41.93	32.00	4.62	36.10	200	247	Peak



Test Mode :	Mode 11	Temperature :	23~25°C
Test Channel :	06	Relative Humidity :	49~52%
Test Engineer :	Cona Huang	Polarization :	Vertical
Remark :	2437 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
2390.00	43.47	-30.53	74.00	43.19	31.86	4.50	36.08	100	22	Peak
2390.00	31.37	-22.63	54.00	31.09	31.86	4.50	36.08	100	22	Average
2437.00	93.04	-	-	92.70	31.90	4.53	36.09	100	22	Peak
2437.00	82.33	-	-	81.96	31.93	4.53	36.09	100	22	Average
2484.00	31.07	-22.93	54.00	30.60	31.98	4.59	36.10	100	22	Average
2484.00	45.10	-28.90	74.00	44.63	31.98	4.59	36.10	100	22	Peak



Test Mode :	Mode 12	Temperature :	23~25°C
Test Channel :	09	Relative Humidity :	49~52%
Test Engineer :	Cona Huang	Polarization :	Horizontal
Remark :	2452 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
2364.00	41.97	-32.03	74.00	41.79	31.81	4.44	36.07	120	74	Peak
2364.00	30.54	-23.46	54.00	30.36	31.81	4.44	36.07	120	74	Average
2452.00	82.82	-	-	82.42	31.93	4.56	36.09	120	74	Peak
2452.00	72.15	-	-	71.75	31.93	4.56	36.09	120	74	Average
2483.85	31.81	-22.19	54.00	31.34	31.98	4.59	36.10	120	74	Average
2483.85	44.86	-29.14	74.00	44.39	31.98	4.59	36.10	120	74	Peak



Test Mode :	Mode 12	Temperature :	23~25°C
Test Channel :	09	Relative Humidity :	49~52%
Test Engineer :	Cona Huang	Polarization :	Vertical
Remark :	2452 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
2324.00	42.21	-31.79	74.00	42.10	31.76	4.41	36.06	100	58	Peak
2324.00	30.55	-23.45	54.00	30.44	31.76	4.41	36.06	100	58	Average
2452.00	86.92	-	-	86.55	31.93	4.53	36.09	100	58	Peak
2452.00	76.72	-	-	76.32	31.93	4.56	36.09	100	58	Average
2483.85	49.68	-24.32	74.00	49.21	31.98	4.59	36.10	100	58	Peak
2483.85	32.91	-21.09	54.00	32.44	31.98	4.59	36.10	100	58	Average

Test Mode :	Mode 13	Temperature :	23~25°C
Test Channel :	149	Relative Humidity :	49~52%
Test Engineer :	Cona Huang	Polarization :	Horizontal
Remark :	1. 5745 MHz is Fundamental Signals which can be ignored. 2. 5725 MHz and 5850 MHz are not within a restricted band.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
46.74	30.37	-9.63	40.00	51.52	9.68	0.73	31.56	100	173	Peak
165.81	22.75	-20.75	43.50	43.27	9.87	1.14	31.53	-	-	Peak
240.06	34.76	-11.24	46.00	53.25	11.68	1.34	31.51	-	-	Peak
335.00	33.73	-12.27	46.00	48.75	14.65	1.63	31.30	-	-	Peak
478.50	31.21	-14.79	46.00	42.47	17.87	1.98	31.11	-	-	Peak
780.20	32.98	-13.02	46.00	40.24	20.74	2.54	30.54	-	-	Peak
5725.00	68.45	-10.32	78.77	63.23	34.21	7.01	36.00	100	319	Peak
5745.00	88.88	-	-	83.65	34.20	7.03	36.00	100	319	Average
5745.00	98.77	-	-	93.54	34.20	7.03	36.00	100	319	Peak
5850.00	47.18	-31.59	78.77	41.93	34.16	7.09	36.00	100	319	Peak
8470.00	52.20	-21.80	74.00	43.93	35.71	9.25	36.69	100	64	Peak
8470.00	38.05	-15.95	54.00	29.78	35.71	9.25	36.69	100	64	Average

Test Mode :	Mode 13	Temperature :	23~25°C
Test Channel :	149	Relative Humidity :	49~52%
Test Engineer :	Cona Huang	Polarization :	Vertical
Remark :	1. 5745 MHz is Fundamental Signals which can be ignored. 2. 5725 MHz and 5850 MHz are not within a restricted band.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
42.42	34.77	-5.23	40.00	54.39	11.34	0.58	31.54	100	324	Peak
107.22	28.78	-14.72	43.50	47.32	12.04	0.95	31.53	-	-	Peak
129.90	31.46	-12.04	43.50	49.53	12.38	1.07	31.52	-	-	Peak
335.00	31.93	-14.07	46.00	46.95	14.65	1.63	31.30	-	-	Peak
528.20	33.82	-12.18	46.00	43.95	18.78	2.10	31.01	-	-	Peak
799.80	33.97	-12.03	46.00	41.19	20.75	2.57	30.54	-	-	Peak
5725.00	68.76	-11.93	80.69	63.54	34.21	7.01	36.00	101	330	Peak
5745.00	91.41	-	-	86.18	34.20	7.03	36.00	101	330	Average
5745.00	100.69	-	-	95.46	34.20	7.03	36.00	101	330	Peak
5850.00	46.72	-33.97	80.69	41.47	34.16	7.09	36.00	101	330	Peak
8508.00	52.75	-21.25	74.00	44.46	35.71	9.29	36.71	100	88	Peak
8508.00	38.18	-15.82	54.00	29.89	35.71	9.29	36.71	100	88	Average

Test Mode :	Mode 14	Temperature :	23~25°C
Test Channel :	157	Relative Humidity :	49~52%
Test Engineer :	Cona Huang	Polarization :	Horizontal
Remark :	1. 5785 MHz is Fundamental Signals which can be ignored. 2. 5725 MHz and 5850 MHz are not within a restricted band.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
30.00	22.49	-17.51	40.00	34.99	18.48	0.58	31.56	-	-	Peak
165.81	21.61	-21.89	43.50	42.13	9.87	1.14	31.53	-	-	Peak
240.06	35.62	-10.38	46.00	54.11	11.68	1.34	31.51	100	136	Peak
307.70	33.80	-12.20	46.00	49.66	13.87	1.55	31.28	-	-	Peak
528.20	30.91	-15.09	46.00	41.04	18.78	2.10	31.01	-	-	Peak
780.20	30.18	-15.82	46.00	37.44	20.74	2.54	30.54	-	-	Peak
5725.00	47.27	-31.91	79.18	42.05	34.21	7.01	36.00	100	315	Peak
5785.00	89.59	-	-	84.35	34.19	7.05	36.00	100	315	Average
5785.00	99.18	-	-	93.94	34.19	7.05	36.00	100	315	Peak
5850.00	46.43	-32.75	79.18	41.18	34.16	7.09	36.00	100	315	Peak
8470.00	53.13	-20.87	74.00	44.86	35.71	9.25	36.69	100	222	Peak
8470.00	37.63	-16.37	54.00	29.36	35.71	9.25	36.69	100	222	Average

Test Mode :	Mode 14	Temperature :	23~25°C
Test Channel :	157	Relative Humidity :	49~52%
Test Engineer :	Cona Huang	Polarization :	Vertical
Remark :	1. 5785 MHz is Fundamental Signals which can be ignored. 2. 5725 MHz and 5850 MHz are not within a restricted band.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
42.42	34.62	-5.38	40.00	54.24	11.34	0.58	31.54	100	210	Peak
107.22	28.60	-14.90	43.50	47.14	12.04	0.95	31.53	-	-	Peak
129.90	29.84	-13.66	43.50	47.91	12.38	1.07	31.52	-	-	Peak
335.00	31.28	-14.72	46.00	46.30	14.65	1.63	31.30	-	-	Peak
528.20	34.41	-11.59	46.00	44.54	18.78	2.10	31.01	-	-	Peak
799.80	34.08	-11.92	46.00	41.30	20.75	2.57	30.54	-	-	Peak
5725.00	47.65	-34.78	82.43	42.43	34.21	7.01	36.00	101	327	Peak
5785.00	92.38	-	-	87.14	34.19	7.05	36.00	101	327	Average
5785.00	102.43	-	-	97.19	34.18	7.06	36.00	101	327	Peak
5850.00	46.58	-35.85	82.43	41.33	34.16	7.09	36.00	101	327	Peak
8236.00	52.50	-21.50	74.00	44.43	35.75	8.97	36.65	100	17	Peak
8236.00	37.85	-16.15	54.00	29.78	35.75	8.97	36.65	100	17	Average

Test Mode :	Mode 15	Temperature :	23~25°C
Test Channel :	165	Relative Humidity :	49~52%
Test Engineer :	Cona Huang	Polarization :	Horizontal
Remark :	1. 5825 MHz is Fundamental Signals which can be ignored. 2. 5725 MHz and 5850 MHz are not within a restricted band.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
30.00	22.16	-17.84	40.00	34.66	18.48	0.58	31.56	-	-	Peak
166.62	22.23	-21.27	43.50	42.78	9.84	1.14	31.53	-	-	Peak
240.06	34.70	-11.30	46.00	53.19	11.68	1.34	31.51	110	128	Peak
307.70	33.01	-12.99	46.00	48.87	13.87	1.55	31.28	-	-	Peak
478.50	31.09	-14.91	46.00	42.35	17.87	1.98	31.11	-	-	Peak
780.20	33.21	-12.79	46.00	40.47	20.74	2.54	30.54	-	-	Peak
5725.00	47.17	-30.98	78.15	41.95	34.21	7.01	36.00	100	318	Peak
5825.00	88.25	-	-	83.01	34.17	7.07	36.00	100	318	Average
5825.00	98.15	-	-	92.91	34.17	7.07	36.00	100	318	Peak
5850.00	60.03	-18.12	78.15	54.78	34.16	7.09	36.00	100	318	Peak
8230.00	52.98	-21.02	74.00	44.94	35.76	8.93	36.65	100	88	Peak
8230.00	37.71	-16.29	54.00	29.67	35.76	8.93	36.65	100	88	Average



Test Mode :	Mode 15	Temperature :	23~25°C
Test Channel :	165	Relative Humidity :	49~52%
Test Engineer :	Cona Huang	Polarization :	Vertical
Remark :	1. 5825 MHz is Fundamental Signals which can be ignored. 2. 5725 MHz and 5850 MHz are not within a restricted band.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
42.42	35.09	-4.91	40.00	54.71	11.34	0.58	31.54	100	166	Peak
107.22	28.72	-14.78	43.50	47.26	12.04	0.95	31.53	-	-	Peak
129.90	30.64	-12.86	43.50	48.71	12.38	1.07	31.52	-	-	Peak
335.00	31.74	-14.26	46.00	46.76	14.65	1.63	31.30	-	-	Peak
528.20	34.36	-11.64	46.00	44.49	18.78	2.10	31.01	-	-	Peak
799.80	34.03	-11.97	46.00	41.25	20.75	2.57	30.54	-	-	Peak
5725.00	48.81	-32.72	81.53	43.59	34.21	7.01	36.00	101	327	Peak
5825.00	91.68	-	-	86.44	34.17	7.07	36.00	101	327	Average
5825.00	101.53	-	-	96.29	34.17	7.07	36.00	101	327	Peak
5850.00	64.39	-17.14	81.53	59.14	34.16	7.09	36.00	101	327	Peak
8284.00	53.32	-20.68	74.00	45.21	35.74	9.03	36.66	100	76	Peak
8284.00	37.98	-16.02	54.00	29.87	35.74	9.03	36.66	100	76	Average

Test Mode :	Mode 16	Temperature :	23~25°C
Test Channel :	149	Relative Humidity :	49~52%
Test Engineer :	Cona Huang	Polarization :	Horizontal
Remark :	1. 5745 MHz is Fundamental Signals which can be ignored. 2. 5725 MHz and 5825 MHz are not within a restricted band.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5725.00	66.13	-11.70	77.83	60.91	34.21	7.01	36.00	160	41	Peak
5745.00	84.84	-	-	79.61	34.20	7.03	36.00	160	41	Average
5745.00	97.83	-	-	92.60	34.20	7.03	36.00	160	41	Peak
5825.00	46.32	-31.51	77.83	41.08	34.17	7.07	36.00	160	41	Peak

Test Mode :	Mode 16	Temperature :	23~25°C
Test Channel :	149	Relative Humidity :	49~52%
Test Engineer :	Cona Huang	Polarization :	Vertical
Remark :	1. 5745 MHz is Fundamental Signals which can be ignored. 2. 5725 MHz and 5850 MHz are not within a restricted band.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5725.00	73.86	-10.18	84.04	68.64	34.21	7.01	36.00	102	12	Peak
5745.00	91.22	-	-	85.99	34.20	7.03	36.00	102	12	Average
5745.00	104.04	-	-	98.81	34.20	7.03	36.00	102	12	Peak
5850.00	45.98	-38.06	84.04	40.73	34.16	7.09	36.00	102	12	Peak

Test Mode :	Mode 17	Temperature :	23~25°C
Test Channel :	157	Relative Humidity :	49~52%
Test Engineer :	Cona Huang	Polarization :	Horizontal
Remark :	1. 5785 MHz is Fundamental Signals which can be ignored. 2. 5725 MHz and 5850 MHz are not within a restricted band.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5725.00	46.80	-34.04	80.84	41.58	34.21	7.01	36.00	101	37	Peak
5785.00	87.72	-	-	82.48	34.19	7.05	36.00	101	37	Average
5785.00	100.84	-	-	95.60	34.19	7.05	36.00	101	37	Peak
5850.00	46.99	-33.85	80.84	41.74	34.16	7.09	36.00	101	37	Peak

Test Mode :	Mode 17	Temperature :	23~25°C
Test Channel :	157	Relative Humidity :	49~52%
Test Engineer :	Cona Huang	Polarization :	Vertical
Remark :	1. 5785 MHz is Fundamental Signals which can be ignored. 2. 5725 MHz and 5850 MHz are not within a restricted band.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5725.00	48.37	-37.83	86.20	43.15	34.21	7.01	36.00	102	15	Peak
5785.00	92.69	-	-	87.45	34.19	7.05	36.00	102	15	Average
5785.00	106.20	-	-	100.96	34.19	7.05	36.00	102	15	Peak
5850.00	46.50	-39.70	86.20	41.25	34.16	7.09	36.00	102	15	Peak

Test Mode :	Mode 18	Temperature :	23~25°C
Test Channel :	165	Relative Humidity :	49~52%
Test Engineer :	Cona Huang	Polarization :	Horizontal
Remark :	1. 5825 MHz is Fundamental Signals which can be ignored. 2. 5725 MHz and 5850 MHz are not within a restricted band.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5725.00	47.00	-33.53	80.53	41.78	34.21	7.01	36.00	100	35	Peak
5825.00	87.31	-	-	82.07	34.17	7.07	36.00	100	35	Average
5825.00	100.53	-	-	95.29	34.17	7.07	36.00	100	35	Peak
5850.00	60.09	-20.44	80.53	54.84	34.16	7.09	36.00	100	35	Peak

Test Mode :	Mode 18	Temperature :	23~25°C
Test Channel :	165	Relative Humidity :	49~52%
Test Engineer :	Cona Huang	Polarization :	Vertical
Remark :	1. 5825 MHz is Fundamental Signals which can be ignored. 2. 5725 MHz and 5850 MHz are not within a restricted band.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5725.00	47.77	-38.82	86.59	42.55	34.21	7.01	36.00	101	14	Peak
5825.00	93.22	-	-	87.98	34.17	7.07	36.00	101	14	Average
5825.00	106.59	-	-	101.35	34.17	7.07	36.00	101	14	Peak
5850.00	64.01	-22.58	86.59	58.76	34.16	7.09	36.00	101	14	Peak

Test Mode :	Mode 19	Temperature :	23~25°C
Test Channel :	151	Relative Humidity :	49~52%
Test Engineer :	Cona Huang	Polarization :	Horizontal
Remark :	1. 5755 MHz is Fundamental Signals which can be ignored. 2. 5725 MHz and 5850 MHz are not within a restricted band.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5725.00	63.06	-12.98	76.04	57.84	34.21	7.01	36.00	163	39	Peak
5755.00	82.92	-	-	77.69	34.20	7.03	36.00	163	39	Average
5755.00	96.04	-	-	90.81	34.20	7.03	36.00	163	39	Peak
5850.00	46.96	-29.08	76.04	41.71	34.16	7.09	36.00	163	39	Peak

Test Mode :	Mode 19	Temperature :	23~25°C
Test Channel :	151	Relative Humidity :	49~52%
Test Engineer :	Cona Huang	Polarization :	Vertical
Remark :	1. 5755 MHz is Fundamental Signals which can be ignored. 2. 5725 MHz and 5850 MHz are not within a restricted band.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5725.00	70.64	-11.68	82.32	65.42	34.21	7.01	36.00	103	14	Peak
5755.00	88.20	-	-	82.97	34.20	7.03	36.00	103	14	Average
5755.00	102.32	-	-	97.09	34.20	7.03	36.00	103	14	Peak
5850.00	47.34	-34.98	82.32	42.09	34.16	7.09	36.00	103	14	Peak

Test Mode :	Mode 20	Temperature :	23~25°C
Test Channel :	159	Relative Humidity :	49~52%
Test Engineer :	Cona Huang	Polarization :	Horizontal
Remark :	1. 5795 MHz is Fundamental Signals which can be ignored. 2. 5725 MHz and 5850 MHz are not within a restricted band.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5725.00	50.93	-26.70	77.63	45.71	34.21	7.01	36.00	100	38	Peak
5795.00	83.84	-	-	78.60	34.18	7.06	36.00	100	38	Average
5795.00	97.63	-	-	92.39	34.18	7.06	36.00	100	38	Peak
5850.00	49.88	-27.75	77.63	44.63	34.16	7.09	36.00	100	38	Peak

Test Mode :	Mode 20	Temperature :	23~25°C
Test Channel :	159	Relative Humidity :	49~52%
Test Engineer :	Cona Huang	Polarization :	Vertical
Remark :	1. 5795 MHz is Fundamental Signals which can be ignored. 2. 5725 MHz and 5850 MHz are not within a restricted band.		

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5725.00	56.21	-27.05	83.26	50.99	34.21	7.01	36.00	101	14	Peak
5795.00	89.38	-	-	84.14	34.18	7.06	36.00	101	14	Average
5795.00	103.26	-	-	98.02	34.19	7.05	36.00	101	14	Peak
5850.00	54.50	-28.76	83.26	49.25	34.16	7.09	36.00	101	14	Peak

3.4 Antenna Requirements

3.4.1 Standard Applicable

If directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. For the fixed point-to-point operation, the power shall be reduced by one dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the FCC rule.

3.4.2 Antenna Connected Construction

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

3.4.3 Antenna Gain

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

4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Due Date	Remark
EMI Test Receive	R&S	ESCS 30	100356	9KHz – 2.75GHz	Aug. 05, 2009	Aug. 04, 2010	Conduction (CO05-HY)
Two-LISN	R&S	ENV216	11-100081	9kHz~30MHz	Nov. 30, 2009	Nov. 29, 2010	Conduction (CO05-HY)
Two-LISN	R&S	ENV216	11-100080	9kHz~30MHz	Nov. 23, 2009	Nov. 22, 2010	Conduction (CO05-HY)
AC Power Source	APC	APC-1000W	N/A	N/A	N/A	N/A	Conduction (CO05-HY)
System Simulator	R&S	CMU200	105934	N/A	Nov. 11, 2008	Nov. 10, 2010	Conduction (CO05-HY)
GPS Station	T&E	GS-50	N/A	N/A	N/A	N/A	Conduction (CO05-HY)
Spectrum Analyzer	R&S	FSP40	100057	9KHz-40GHz	Oct. 20, 2009	Oct. 19, 2010	Radiation (03CH05-HY)
Amplifier	COM-POWER	PA-103	161069	1KHz - 1GHz	Mar. 29, 2010	Mar. 28, 2011	Radiation (03CH05-HY)
Bilog Antenna	SCHAFFNER	CBL6111C	2727C	30 MHz - 1 GHz	Aug. 12, 2009	Aug. 11, 2010	Radiation (03CH05-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170251	15GHz- 40GHz	Oct. 14, 2009	Oct. 13, 2010	Radiation (03CH05-HY)
Pre Amplifier	Agilent	8449B	3008A01917	1GHz- 26.5GHz	Nov. 11, 2009	Nov. 10, 2010	Radiation (03CH05-HY)
Turn Table	HD	Deis HD 2000	420/611	0 - 360 degree	N/A	N/A	Radiation (03CH05-HY)
Antenna Mast	HD	MA 240	240/666	1 m - 4 m	N/A	N/A	Radiation (03CH05-HY)
Horn Antenna	ESCO	3117	00066584	1GHz ~ 18GHz	Aug. 05, 2009	Aug. 04, 2010	Radiation (03CH05-HY)
Horn Antenna	Training Research	AH-0801	95119	8GHz~18GHz	Nov. 02, 2009	Nov. 01, 2010	Radiation (03CH05-HY)

5 Uncertainty of Evaluation

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

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

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

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

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

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



Appendix A. Photographs of EUT

Please refer to Sporton report number EP052506-01 as below.