

**ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT
INTENTIONAL RADIATOR CERTIFICATION TO
FCC PART 15 SUBPART C REQUIREMENT**

OF

nextbook, Android MID

**MODEL No.: M727HC, Next7P12, M23HC, M712HC, M752HC,
NXM727HCF, M712HCZ, M752HCF, M712HCF, M723HR, M723HC**

FCC ID: S7JNEXT7P12

REPORT NO: ES120218077F

ISSUE DATE: February 27, 2012

Prepared for

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VERIFICATION OF COMPLIANCE

Applicant:	SHENZHEN YIFANG DIGITAL TECHNOLOGY CO., LTD. Building NO.22,23, Fifth Region, Baiwangxin Industrial Park, Songbai Rd., Nanshan, Shenzhen 518108, China
Manufacturer:	SHENZHEN YIFANG DIGITAL TECHNOLOGY CO., LTD. Building NO.22,23, Fifth Region, Baiwangxin Industrial Park, Songbai Rd., Nanshan, Shenzhen 518108, China
Product Description:	nextbook, Android MID
Model Number:	M727HC, Next7P12, M23HC, M712HC, M752HC, NXM727HCF, M712HCZ, M752HCF, M712HCF, M723HR, M723HC (Note: all the models are the same, except their model number and appearance. We take Next7P12 to test.)
File Number:	ES120218077F
Date of Test:	February 18, 2012 to February 25, 2012


We hereby certify that:

The above equipment was tested by SHENZHEN EMTEK CO., LTD. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 (2009) and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15.247.

The test results of this report relate only to the tested sample identified in this report.

Date of Test : February 18, 2012 to February 25, 2012

Prepared by : 
(Engineer)

Reviewer : 
(Quality Manager)


Approve & Authorized Signer : 
(Manager)



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1. General Information

1.1 Product Description

A major technical descriptions of EUT is described as following:

- A). Standards: IEEE802.11b/g/n
- B). Operation Frequency: 802.11b/g/n: 2412-2462MHz;
- C). Modulation: OFDM with BPSK/QPSK/16QAM/64QAM for 802.11g/n,
DSSS with DBPSK/DQPSK/CCK for 802.11b
- D). Number of Channel: 802.11b/g/n(HT20): 11Channels;
- E). Support Data Rate: 1, 2, 5.5, 11, 6, 9, 12, 24, 36, 48, 54 Mbps
- F). Conducted Power: 12.62dBm(802.11b), 11.35dBm(802.11g), 10.77dBm(802.11n)
- G) Antenna Gain: 0dBi
- H). Antenna Type: PCB Antenna
- I). Power Supply: DC 5V with AC Adapter and DC 3.7V from Li-ion Battery
- J). Adapter: Input: AC 100-240V, 50/60Hz
Output: DC 5V, 2A

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	5	2432	9	2452
2	2417	6	2437	10	2457
3	2422	7	2442	11	2462
4	2427	8	2447		

Note:

1. This device is nextbook, Android MID included 802.11b, 802.11g and 802.11n 2.4GHz transceiver function.
2. Test of channel was included the lowest middle and highest frequency in lowest data rate and to perform the test, then record on this report.

1.2 Related Submittal(s) / Grant(s)

This submittal(s) (test report) is intended for FCC ID: S7JNEXT7P12 filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules. The EUT is compliance with Subpart B is authorized under a DOC procedure.

1.3 Test Methodology

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4 (2009). Radiated testing was performed at an antenna to EUT distance 3 meters.

1.4 Special Accessories

Not available for this EUT intended for grant.

1.5 Equipment Modifications

Not available for this EUT intended for grant.

1.6 Test Facility

Site Description

EMC Lab.

: Accredited by CNAS, 2010.10.29
The certificate is valid until 2013.10.28
The Laboratory has been assessed and proved to be in compliance with CNAS/CL01: 2006(identical to ISO/IEC17025: 2005)
The Certificate Registration Number is L2291

Accredited by TUV Rheinland Shenzhen 2010.5.25
The Laboratory has been assessed according to the requirements ISO/IEC 17025

Accredited by FCC, October 28, 2010
The Certificate Registration Number is 406365.

Accredited by Industry Canada, March 05, 2010
The Certificate Registration Number is 46405-4480.

Name of Firm

: SHENZHEN EMTEK CO., LTD.

Site Location

: Bldg 69, Majialong Industry Zone,
Nanshan District, Shenzhen, Guangdong, China

2. System Test Configuration

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The Transmitter was operated in the normal operating mode. the Tx frequency was fixed which was for the purpose of the measurements.

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.4-2009 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.

2.3.2 Radiated Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter(EUT) was rotated through three orthogonal axes according to the requirements in Section 13.1.4.1 of ANSI C63.4-2009.

2.4 Configuration of Tested System

Fig. 2-1 Configuration of Tested System

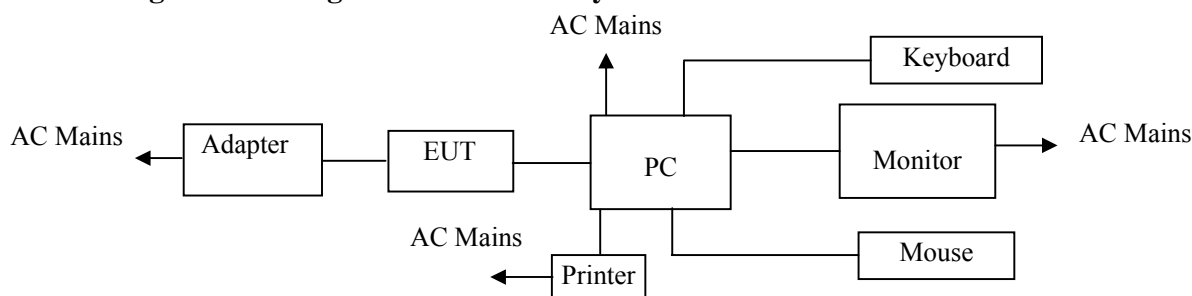


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.	Note
1.	nextbook, Android MID	N/A	Next7P12	S7JNEXT7P1 2	N/A	EUT
2.	Earphone	Yifang	N/A	N/A	N/A	
3.	LCD Monitor	LENOVO	9227-AE6	N/A	4M0293084302824	
4.	Keyboard	LENOVO	KU-0225	N/A	0585494	
5.	Mouse	LENOVO	MO28UOL	N/A	44D2639	
6.	PC	LENOVO	9702	N/A	L3C4410	
7.	Printer	HP	C89520	N/A	CN25S182N6	
8.	LED Monitor	PHILIPS	224EL2	N/A	DLAA1111431625	

Note:

- (1) Unless otherwise denoted as EUT in 「Remark」 column, device(s) used in tested system is a support equipment.

3. Description of Test Modes

The Transmitter of EUT is a nextbook, Android MID and powered by host equipment. This is Digital Transmission system(DTS) and have modulation OFDM, DSSS, DBPSK, DQPSK, CCK, 16QAM, 64QAM. According exploratory test, EUT will have maximum output power in those data rate(802.11b: 1 Mbps; 802.11g: 6 Mbps; 802.11n: MCS0), so those data rate were used for all test.

The equipment enables high-speed access without wires to network assets. This adapter uses the IEEE 802.11 protocol to enable wireless communications between the host and Wireless router.

For 802.11b/g/n:

1. For lowest channel : 2412MHz (Channel 1)
2. For middle channel : 2437MHz (Channel 6)
3. For highest channel: 2462MHz (Channel 11)

EUT operating conditions:

The EUT exercise program used during conducted testing was designed to exercise the EUT in a manner similar to typical use, The exercise sequence is listed as below:

1. Setup the EUT and simulators as shown on 2.4.
2. Turn on the power of all equipments.
3. The EUT Ping with the wireless router.
4. Repeat the above steps.

4. Summary of Test Results

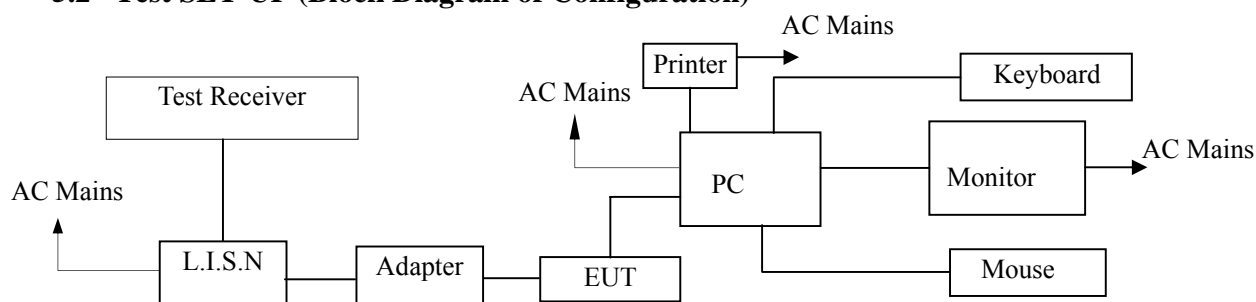
FCC Rules	Description Of Test	Result
§15.247(a)(2)	6dB bandwidth	Compliant
§15.247(b)(3)	Max Peak output Power test	Compliant
§15.247(e)	Power density	Compliant
§15.247(d)	Band edge test	Compliant
§15.207	AC Power Conducted Emission	Compliant
§15.247(d), §15.209	Radiated Emission	Compliant
§15.247(d)	Antenna Port Emission	Compliant
§15.247(b)&§15.203	Antenna Application	Compliant

5. Conducted Emissions Test

5.1 Measurement Procedure

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured were complete.

5.2 Test SET-UP (Block Diagram of Configuration)



5.3 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Test Receiver	Rohde & Schwarz	ESCS30	828985/018	05/29/2011	05/29/2012
L.I.S.N.	Schwarzbeck	NNLK8129	8129203	05/29/2011	05/29/2012
50Ω Coaxial Switch	Anritsu	MP59B	M20531	N/A	N/A
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100006	05/29/2011	05/29/2012
Voltage Probe	Rohde & Schwarz	TK9416	N/A	05/29/2011	05/29/2012
I.S.N	Rohde & Schwarz	ENY22	1109.9508.02	05/29/2011	05/29/2012

5.4 Conducted Emission Limit

Conducted Emission Frequency(MHz)	Quasi-peak	Average
0.15-0.5	66-56	56-46
0.5-5.0	56	46
5.0-30.0	60	50

- Note:**
1. The lower limit shall apply at the transition frequencies
 2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

5.5 Measurement Result

Date of Test: February 23, 2012 Temperature: 22
 Frequency Detector: 0.15~30MHz Humidity: 50%
 Test Result: PASS Test Mode: WIFI Mode

Test Line	Frequency MHz	Emission Level QP dB(μV)	Emission Level AV dB(μV)	Limits QP dB(μV)	Limits AV dB(μV)	Over QP dB(μV)	Over AV dB(μV)
Line	0.160	50.330	34.450	65.460	55.46	-15.13	-21.01
	0.240	44.110	35.390	62.100	52.10	-17.99	-16.71
	0.280	44.830	33.680	60.820	50.82	-15.99	-17.14
	0.360	42.030	34.180	58.730	48.73	-16.70	-14.55
	0.480	41.280	32.880	56.340	46.34	-15.06	-13.46
	0.640	40.450	30.960	56.000	46.00	-15.55	-15.04
Neutral	0.280	43.310	36.890	60.820	50.82	-17.51	-13.93
	0.320	37.620	33.370	59.710	49.71	-22.09	-16.34
	0.400	39.560	31.430	57.850	47.85	-18.29	-16.42
	0.480	38.520	31.440	56.340	46.34	-17.82	-14.90
	0.520	38.790	30.070	56.000	46.00	-17.21	-15.93
	0.680	36.300	29.390	56.000	46.00	-19.70	-16.61

5.6 Conducted Measurement Photo



6. Radiated Emission Test

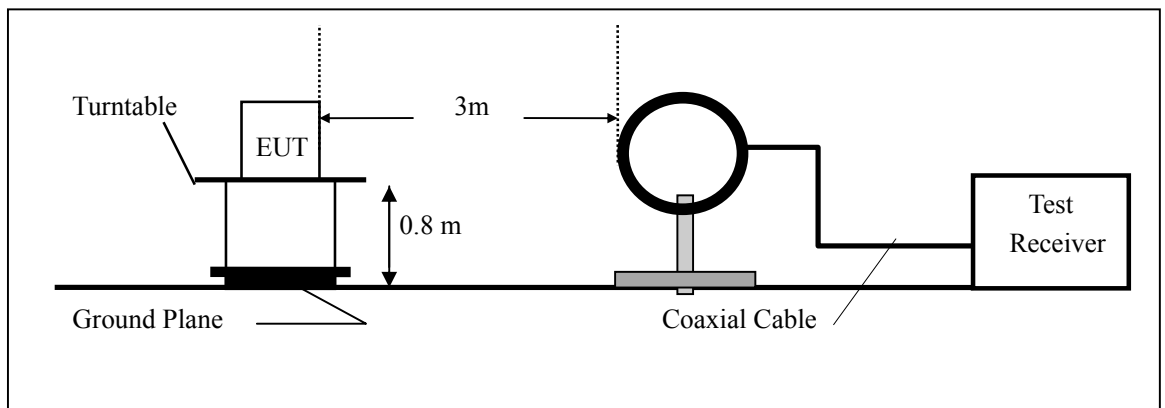
6.1 Measurement Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measured were complete.

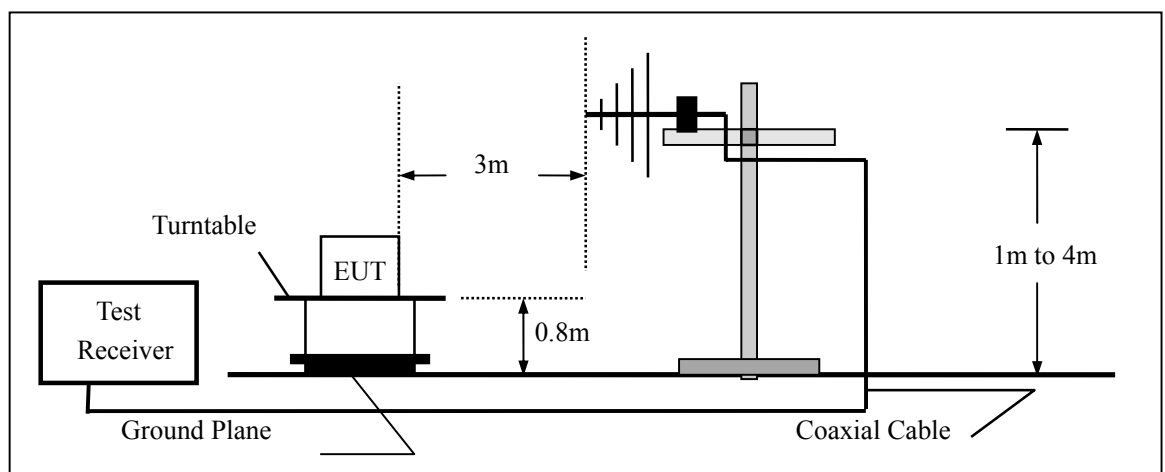
For emissions measurement set the bandwidth of the Spectrum's RBW at 1MHz above 1GHz and RBW 100KHz below 1GHz .

6.2 Test SET-UP (Block Diagram of Configuration)

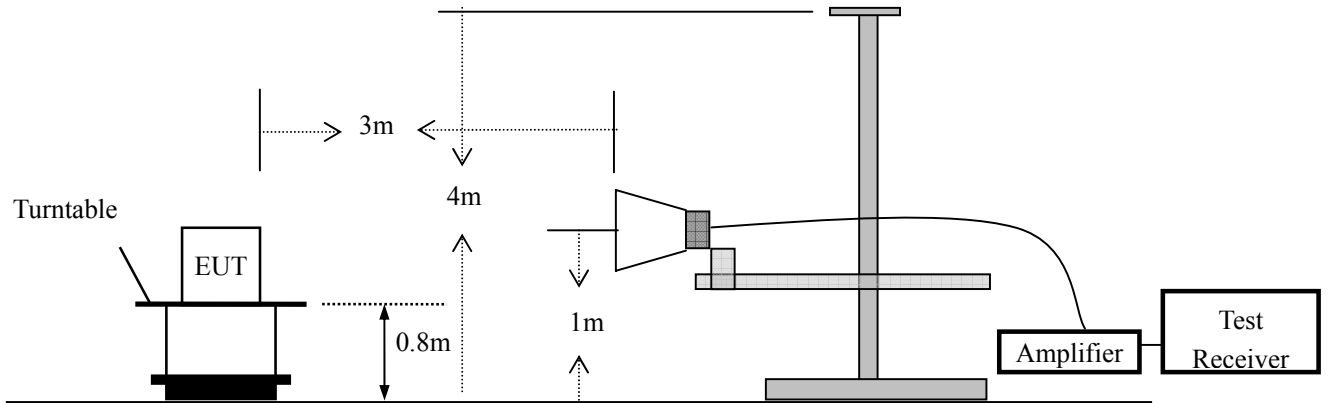
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz



(B) Radiated Emission Test Set-Up, Frequency Below 1000MHz



(C) Radiated Emission Test Set-Up, Frequency above 1000MHz



6.3 Measurement Equipment Used

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	Rohde & Schwarz	ESU	1302.6005.26	05/29/2011	05/29/2012
Pre-Amplifier	HP	8447D	2944A07999	05/29/2011	05/29/2012
Bilog Antenna	Schwarzbeck	VULB9163	142	05/29/2011	05/29/2012
Loop Antenna	ARA	PLA-1030/B	1029	05/29/2011	05/29/2012
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170399	05/29/2011	05/29/2012
Horn Antenna	Schwarzbeck	BBHA 9120	D143	05/29/2011	05/29/2012
Cable	Schwarzbeck	AK9513	ACRX1	05/29/2011	05/29/2012
Cable	Rosenberger	N/A	FP2RX2	05/29/2011	05/29/2012
Cable	Schwarzbeck	AK9513	CRPX1	05/29/2011	05/29/2012
Cable	Schwarzbeck	AK9513	CRRX2	05/29/2011	05/29/2012

6.4 Radiated Emission Limit

The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table 15.209(a):

Frequencies (MHz)	Field Strength (micorvolts/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

15.205 Restricted bands of operation

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)

- Remark: 1. Emission level in dBuV/m=20 log (uV/m)
2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
3. Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of § 15.205, and the emissions located in restricted bands also comply with 15.209 limit.

6.5 Measurement Result

Operation Mode: TX Mode Test Date : February 23, 2012
 Frequency Range: 9KHz~30MHz Temperature : 28
 Test Result: PASS Humidity : 65 %
 Measured Distance: 3m Test By: WOLF

Freq. (MHz)	Ant.Pol. H/V	Emission Level (dBuV/m)	Limit 3m (dBuV/m)	Over (dB)
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Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit 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.

Operation Mode: 802.11b TX Channel 1 Test Date : February 23, 2012
 Frequency Range: 30~1000MHz Temperature : 28
 Test Result: PASS Humidity : 65 %
 Measured Distance: 3m Test By: WOLF

Freq. (MHz)	Ant.Pol. H/V	Emission Level (dBuV)	Limit 3m (dBuV/m)	Over (dB)	Note
143.48	V	30.30	43.50	-13.20	PK
288.04	V	30.32	46.00	-15.68	PK
384.42	V	37.44	46.00	-8.56	PK
575.63	V	33.76	46.00	-12.24	PK
672.00	V	31.32	46.00	-14.68	PK
961.14	V	39.52	54.00	-14.48	PK
191.67	H	37.18	43.50	-6.32	PK
288.05	H	38.79	46.00	-7.21	PK
384.42	H	39.14	46.00	-6.86	PK
480.80	H	32.63	46.00	-13.37	PK
575.63	H	35.34	46.00	-10.66	PK
961.14	H	37.77	54.00	-16.23	PK

- Note:**
- (1) All Readings are Peak Value.
 - (2) Emission Level = Reading Level + Probe Factor + Cable Loss.
 - (3) The average measurement was not performed when the peak measured data under the limit of average detection.
 - (4) EUT lying on the table position is the worst case result in the report.

Operation Mode: 802.11b TX Channel 6 Test Date : February 23, 2012
 Frequency Range: 30~1000MHz Temperature : 28
 Test Result: PASS Humidity : 65 %
 Measured Distance: 3m Test By: WOLF

Freq. (MHz)	Ant.Pol. H/V	Emission Level (dBuV)	Limit 3m (dBuV/m)	Over (dB)	Note
143.84	V	29.63	43.50	-13.87	PK
287.61	V	30.61	46.00	-15.39	PK
385.09	V	37.23	46.00	-8.77	PK
576.65	V	34.99	46.00	-11.01	PK
670.89	V	31.77	46.00	-14.23	PK
961.99	V	39.25	54.00	-14.75	PK
193.03	H	36.70	43.50	-6.80	PK
285.97	H	39.57	46.00	-6.43	PK
384.69	H	37.87	46.00	-8.13	PK
481.05	H	32.12	46.00	-13.88	PK
576.61	H	35.13	46.00	-10.87	PK
961.57	H	37.36	54.00	-16.64	PK

- Note:**
- (1) All Readings are Peak Value.
 - (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
 - (3) The average measurement was not performed when the peak measured data under the limit of average detection.
 - (4) EUT lying on the table position is the worst case result in the report.

Operation Mode: 802.11b TX Channel 11 Test Date : February 23, 2012
 Frequency Range: 30~1000MHz Temperature : 28
 Test Result: PASS Humidity : 65 %
 Measured Distance: 3m Test By: WOLF

Freq. (MHz)	Ant.Pol. H/V	Emission Level (dBuV)	Limit 3m (dBuV/m)	Over (dB)	Note
143.67	V	30.05	43.50	-13.45	PK
288.87	V	29.57	46.00	-16.43	PK
384.04	V	36.39	46.00	-9.61	PK
574.58	V	32.45	46.00	-13.55	PK
673.05	V	28.34	46.00	-17.66	PK
962.40	V	35.81	54.00	-18.19	PK
190.52	H	34.86	43.50	-8.64	PK
289.18	H	38.10	46.00	-7.90	PK
385.50	H	38.02	46.00	-7.98	PK
478.75	H	31.49	46.00	-14.51	PK
576.41	H	33.46	46.00	-12.54	PK
961.99	H	36.98	54.00	-17.02	PK

- Note:**
- (1) All Readings are Peak Value.
 - (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
 - (3) The average measurement was not performed when the peak measured data under the limit of average detection.
 - (4) EUT lying on the table position is the worst case result in the report.

Operation Mode: 802.11g TX Channel 1 Test Date : February 23, 2012
 Frequency Range: 30~1000MHz Temperature : 28
 Test Result: PASS Humidity : 65 %
 Measured Distance: 3m Test By: WOLF

Freq. (MHz)	Ant.Pol. H/V	Emission Level (dBuV)	Limit 3m (dBuV/m)	Over (dB)	Note
143.77	V	30.98	43.50	-12.52	PK
288.40	V	29.93	46.00	-16.07	PK
385.40	V	36.79	46.00	-9.21	PK
576.82	V	33.44	46.00	-12.56	PK
675.11	V	30.96	46.00	-15.04	PK
958.06	V	39.74	54.00	-14.26	PK
190.65	H	37.45	43.50	-6.05	PK
288.78	H	39.17	46.00	-6.83	PK
384.92	H	37.36	46.00	-8.64	PK
483.85	H	31.85	46.00	-14.15	PK
576.77	H	35.70	46.00	-10.30	PK
962.59	H	37.36	54.00	-16.64	PK

- Note:**
- (1) All Readings are Peak Value.
 - (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
 - (3) The average measurement was not performed when the peak measured data under the limit of average detection.
 - (4) EUT lying on the table position is the worst case result in the report.

Operation Mode: 802.11g TX Channel 6 Test Date : February 23, 2012
 Frequency Range: 30~1000MHz Temperature : 28
 Test Result: PASS Humidity : 65%
 Measured Distance: 3m Test By: WOLF

Freq. (MHz)	Ant.Pol. H/V	Emission Level (dBuV)	Limit 3m (dBuV/m)	Over (dB)	Note
142.56	V	29.96	43.50	-13.54	PK
288.05	V	28.88	46.00	-17.12	PK
388.91	V	36.58	46.00	-9.42	PK
574.07	V	32.89	46.00	-13.11	PK
672.65	V	31.08	46.00	-14.92	PK
961.71	V	39.66	54.00	-14.34	PK
191.70	H	37.02	43.50	-6.48	PK
286.30	H	38.83	46.00	-7.17	PK
385.93	H	37.13	46.00	-8.87	PK
482.80	H	30.80	46.00	-15.20	PK
577.82	H	35.85	46.00	-10.15	PK
963.91	H	36.91	54.00	-17.09	PK

- Note:**
- (1) All Readings are Peak Value.
 - (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
 - (3) The average measurement was not performed when the peak measured data under the limit of average detection.
 - (4) EUT lying on the table position is the worst case result in the report.

Operation Mode: 802.11g TX Channel 11 Test Date : February 23, 2012
 Frequency Range: 30~1000MHz Temperature : 28
 Test Result: PASS Humidity : 65 %
 Measured Distance: 3m Test By: WOLF

Freq. (MHz)	Ant.Pol. H/V	Emission Level (dBuV)	Limit 3m (dBuV/m)	Over (dB)	Note
142.99	V	30.67	43.50	-12.83	PK
287.35	V	28.81	46.00	-17.19	PK
383.28	V	34.74	46.00	-11.26	PK
579.17	V	31.22	46.00	-14.78	PK
674.99	V	32.33	46.00	-13.67	PK
960.74	V	42.41	54.00	-11.59	PK
192.01	H	34.79	43.50	-8.71	PK
290.26	H	38.79	46.00	-7.21	PK
382.40	H	34.31	46.00	-11.69	PK
485.91	H	30.73	46.00	-15.27	PK
577.48	H	34.34	46.00	-11.66	PK
963.92	H	36.59	54.00	-17.41	PK

- Note:**
- (1) All Readings are Peak Value.
 - (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
 - (3) The average measurement was not performed when the peak measured data under the limit of average detection.
 - (4) EUT lying on the table position is the worst case result in the report.

Operation Mode:	802.11n TX Channel 1	Test Date :	February 23, 2012
Frequency Range:	30~1000MHz	Temperature :	28
Test Result:	PASS	Humidity :	65 %
Measured Distance:	3m	Test By:	WOLF

Freq. (MHz)	Ant.Pol. H/V	Emission Level (dBuV)	Limit 3m (dBuV/m)	Over (dB)	Note
142.69	V	29.84	43.50	-13.66	PK
286.99	V	30.77	46.00	-15.23	PK
384.21	V	37.19	46.00	-8.81	PK
575.08	V	33.61	46.00	-12.39	PK
673.06	V	30.97	46.00	-15.03	PK
961.06	V	39.34	54.00	-14.66	PK
191.02	H	37.07	43.50	-6.43	PK
288.46	H	38.23	46.00	-7.77	PK
385.44	H	38.10	46.00	-7.90	PK
479.75	H	32.11	46.00	-13.89	PK
576.73	H	35.79	46.00	-10.21	PK

- Note:**
- (1) All Readings are Peak Value.
 - (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
 - (3) The average measurement was not performed when the peak measured data under the limit of average detection.
 - (4) EUT lying on the table position is the worst case result in the report.

Operation Mode: 802.11n Test Date : February 23, 2012
 TX Channel 6
 Frequency Range: 30~1000MHz Temperature : 28
 Test Result: PASS Humidity : 65 %
 Measured Distance: 3m Test By: WOLF

Freq. (MHz)	Ant.Pol. H/V	Emission Level (dBuV)	Limit 3m (dBuV/m)	Over (dB)	Note
145.05	V	29.30	43.50	-14.20	PK
285.94	V	29.60	46.00	-16.40	PK
386.24	V	37.01	46.00	-8.99	PK
571.63	V	33.05	46.00	-12.95	PK
670.95	V	30.61	46.00	-15.39	PK
962.31	V	39.12	54.00	-14.88	PK
192.07	H	35.71	43.50	-7.79	PK
291.09	H	38.85	46.00	-7.15	PK
386.88	H	39.11	46.00	-6.89	PK
477.74	H	31.55	46.00	-14.45	PK
573.48	H	36.15	46.00	-9.85	PK
961.04	H	38.41	54.00	-15.59	PK

- Note:**
- (1) All Readings are Peak Value.
 - (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
 - (3) The average measurement was not performed when the peak measured data under the limit of average detection.
 - (4) EUT lying on the table position is the worst case result in the report.

Operation Mode: 802.11b TX Channel 1 Test Date : February 23, 2012
 Frequency Range: Above 1GHz Temperature : 28
 Test Result: PASS Humidity : 65 %
 Measured Distance: 3m Test By: WOLF

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
4826.18	V	57.36	42.35	74.00	54.00	-16.64	-11.65
7235.35	V	55.51	41.27	74.00	54.00	-18.49	-12.73
9647.23	V	53.39	40.05	74.00	54.00	-20.61	-13.95
--	V	--	--	--	--	--	--
--	V	--	--	--	--	--	--
--	V	--	--	--	--	--	--
4826.25	H	55.93	41.02	74.00	54.00	-18.07	-12.98
7235.19	H	53.27	40.64	74.00	54.00	-20.73	-13.36
9646.33	H	54.11	40.97	74.00	54.00	-19.89	-13.03

All emissions not reported were more than 20dB below the specified limit or in the noise floor.

- Note:**
- (1) All Readings are Peak Value and AV.
 - (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
 - (3) Data of measurement within this frequency range shown “ -- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

Operation Mode: 802.11b TX Channel 6 Test Date : February 23, 2012
 Frequency Range: Above 1GHz Temperature : 28
 Test Result: PASS Humidity : 65 %
 Measured Distance: 3m Test By: WOLF

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
4883.16	V	57.71	42.01	74.00	54.00	-16.29	-11.99
7325.70	V	55.16	40.54	74.00	54.00	-18.84	-13.46
9763.16	V	54.49	40.83	74.00	54.00	-19.51	-13.17
--	V	--	--	--	--	--	--
--	V	--	--	--	--	--	--
--	V	--	--	--	--	--	--
4876.46	H	55.48	40.75	74.00	54.00	-18.52	-13.25
7330.80	H	52.59	40.32	74.00	54.00	-21.41	-13.68
9767.50	H	52.88	40.04	74.00	54.00	-21.12	-13.96

All emissions not reported were more than 20dB below the specified limit or in the noise floor.

- Note:**
- (1) All Readings are Peak Value and AV.
 - (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
 - (3) Data of measurement within this frequency range shown “ -- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

Operation Mode: 802.11b TX (Channel 11) Test Date : February 23, 2012
 Frequency Range: Above 1GHz Temperature : 28
 Test Result: PASS Humidity : 65 %
 Measured Distance: 3m Test By: WOLF

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
4926.20	V	56.45	41.46	74.00	54.00	-17.55	-12.54
7413.42	V	54.46	40.59	74.00	54.00	-19.54	-13.41
9868.49	V	53.76	39.69	74.00	54.00	-20.24	-14.31
--	V	--	--	--	--	--	--
--	V	--	--	--	--	--	--
--	V	--	--	--	--	--	--
4924.78	H	56.88	41.31	74.00	54.00	-17.12	-12.69
7394.46	H	54.35	41.47	74.00	54.00	-19.65	-12.53
9877.68	H	53.26	40.41	74.00	54.00	-20.74	-13.59

No others harmonics emissions are higher than 20dB below the limits of 47 CFR Part 15.247.

- Note:**
- (1) All Readings are Peak Value and AV.
 - (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
 - (3) Data of measurement within this frequency range shown “ -- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

Operation Mode: 802.11g TX Channel 1 Test Date : February 23, 2012
 Frequency Range: Above 1GHz Temperature : 28
 Test Result: PASS Humidity : 65 %
 Measured Distance: 3m Test By: WOLF

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
4825.55	V	56.82	43.16	74.00	54.00	-17.18	-10.84
7236.40	V	55.16	41.83	74.00	54.00	-18.84	-12.17
9647.11	V	54.44	39.03	74.00	54.00	-19.56	-14.97
--	V	--	--	--	--	--	--
--	V	--	--	--	--	--	--
--	V	--	--	--	--	--	--
4824.90	H	56.55	41.46	74.00	54.00	-17.45	-12.54
7236.15	H	54.35	41.66	74.00	54.00	-19.65	-12.34
9645.28	H	54.21	41.41	74.00	54.00	-19.79	-12.59

All emissions not reported were more than 20dB below the specified limit or in the noise floor.

- Note:**
- (1) All Readings are Peak Value and AV.
 - (2) Emission Level= Reading Level +Probe Factor +Cable Loss.
 - (3) Data of measurement within this frequency range shown “ -- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

Operation Mode: 802.11g TX (Channel 6) Test Date : February 23, 2012
 Frequency Range: Above 1GHz Temperature : 28
 Test Result: PASS Humidity : 65 %
 Measured Distance: 3m Test By: WOLF

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
4883.78	V	55.37	42.26	74.00	54.00	-18.63	-11.74
7327.17	V	57.28	42.50	74.00	54.00	-16.72	-11.50
9762.18	V	55.77	40.24	74.00	54.00	-18.23	-13.76
--	V	--	--	--	--	--	--
--	V	--	--	--	--	--	--
--	V	--	--	--	--	--	--
4874.12	H	58.16	42.30	74.00	54.00	-15.84	-11.70
7331.78	H	55.10	41.31	74.00	54.00	-18.90	-12.69
9767.05	H	55.42	41.53	74.00	54.00	-18.58	-12.47

All emissions not reported were more than 20dB below the specified limit or in the noise floor.

- Note:**
- (1) All Readings are Peak Value and AV.
 - (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
 - (3) Data of measurement within this frequency range shown “ -- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

Operation Mode: 802.11g TX (Channel 11) Test Date : February 23, 2012
 Frequency Range: Above 1GHz Temperature : 28
 Test Result: PASS Humidity : 65 %
 Measured Distance: 3m Test By: WOLF

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
4926.99	V	55.68	41.11	74.00	54.00	-18.32	-12.89
7409.57	V	54.75	39.99	74.00	54.00	-19.25	-14.01
9866.44	V	56.77	39.60	74.00	54.00	-17.23	-14.40
--	V	--	--	--	--	--	--
--	V	--	--	--	--	--	--
--	V	--	--	--	--	--	--
4922.44	H	57.76	42.55	74.00	54.00	-16.24	-11.45
7395.44	H	54.66	41.71	74.00	54.00	-19.34	-12.29
9876.70	H	52.96	40.43	74.00	54.00	-21.04	-13.57

No others harmonics emissions are higher than 20dB below the limits of 47 CFR Part 15.247.

- Note:**
- (1) All Readings are Peak Value and AV.
 - (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
 - (3) Data of measurement within this frequency range shown “ -- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

Operation Mode: 802.11n TX Channel 1 Test Date : February 23, 2012
 Frequency Range: Above 1GHz Temperature : 28
 Test Result: PASS Humidity : 65 %
 Measured Distance: 3m Test By: WOLF

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
4826.53	V	58.27	42.80	74.00	54.00	-15.73	-11.20
7236.56	V	55.92	41.56	74.00	54.00	-18.08	-12.44
9647.91	V	54.41	40.93	74.00	54.00	-19.59	-13.07
--	V	--	--	--	--	--	--
--	V	--	--	--	--	--	--
--	V	--	--	--	--	--	--
4824.61	H	57.16	39.77	74.00	54.00	-16.84	-14.23
7234.20	H	51.91	39.68	74.00	54.00	-22.09	-14.32
9646.90	H	52.06	39.92	74.00	54.00	-21.94	-14.08

All emissions not reported were more than 20dB below the specified limit or in the noise floor.

- Note:**
- (1) All Readings are Peak Value and AV.
 - (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
 - (3) Data of measurement within this frequency range shown “ -- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

Operation Mode: 802.11n TX (Channel 6) Test Date : February 23, 2012
 Frequency Range: Above 1GHz Temperature : 28
 Test Result: PASS Humidity : 65 %
 Measured Distance: 3m Test By: WOLF

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
4883.79	V	58.50	42.15	74.00	54.00	-15.50	-11.85
7327.03	V	57.17	42.45	74.00	54.00	-16.83	-11.55
9761.98	V	55.39	41.29	74.00	54.00	-18.61	-12.71
--	V	--	--	--	--	--	--
--	V	--	--	--	--	--	--
--	V	--	--	--	--	--	--
4871.22	H	58.47	40.72	74.00	54.00	-15.53	-13.28
7329.82	H	52.62	38.65	74.00	54.00	-21.38	-15.35
9766.57	H	53.16	39.27	74.00	54.00	-20.84	-14.73

All emissions not reported were more than 20dB below the specified limit or in the noise floor.

- Note:**
- (1) All Readings are Peak Value and AV.
 - (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
 - (3) Data of measurement within this frequency range shown “ -- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

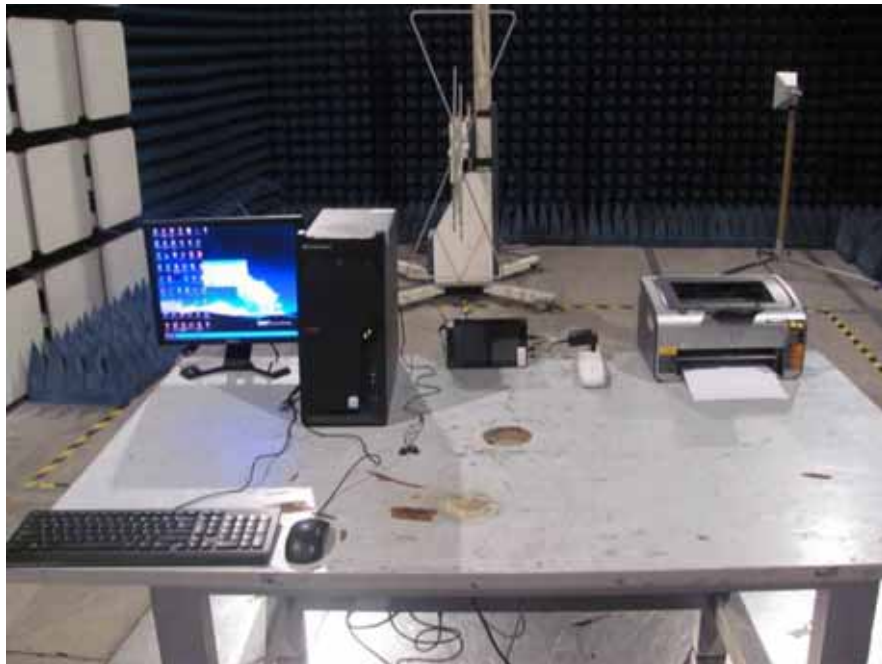
Operation Mode: 802.11n TX (Channel 11) Test Date : February 23, 2012
 Frequency Range: Above 1GHz Temperature : 28
 Test Result: PASS Humidity : 65 %
 Measured Distance: 3m Test By: WOLF

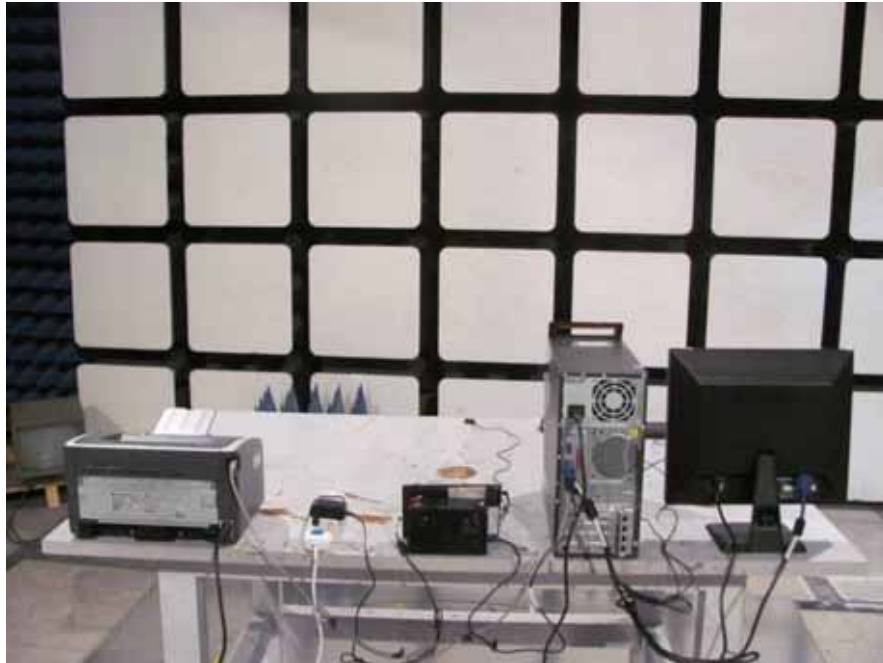
Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
4925.84	V	59.41	43.71	74.00	54.00	-14.59	-10.29
7411.37	V	55.28	41.19	74.00	54.00	-18.72	-12.81
9866.66	V	56.27	41.72	74.00	54.00	-17.73	-12.28
--	V	--	--	--	--	--	--
--	V	--	--	--	--	--	--
--	V	--	--	--	--	--	--
4925.12	H	58.21	40.75	74.00	54.00	-15.79	-13.25
7395.13	H	53.00	40.41	74.00	54.00	-21.00	-13.59
9876.37	H	53.31	40.55	74.00	54.00	-20.69	-13.45

No others harmonics emissions are higher than 20dB below the limits of 47 CFR Part 15.247.

- Note:**
- (1) All Readings are Peak Value and AV.
 - (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
 - (3) Data of measurement within this frequency range shown “ -- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

6.6 Radiated Measurement Photos



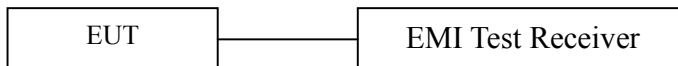


7. Occupied Bandwidth Test

7.1 Measurement Procedure

The EUT was operating in IEEE 802.11b/g/n mode or could be controlled its channel. Printed out the test result from the spectrum by hard copy function.

7.2 Test SET-UP (Block Diagram of Configuration)



7.3 Measurement Equipment Used

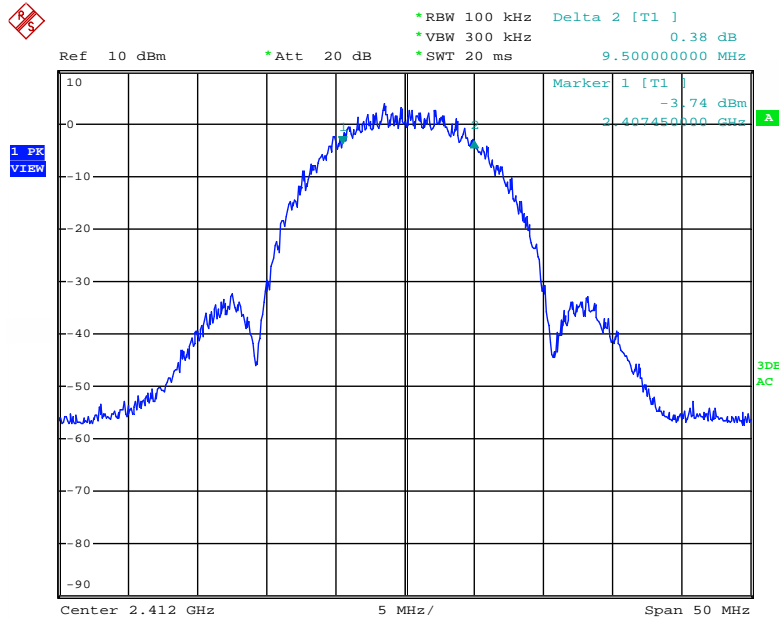
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	Rohde & Schwarz	ESCI	101045	05/29/2011	05/29/2012

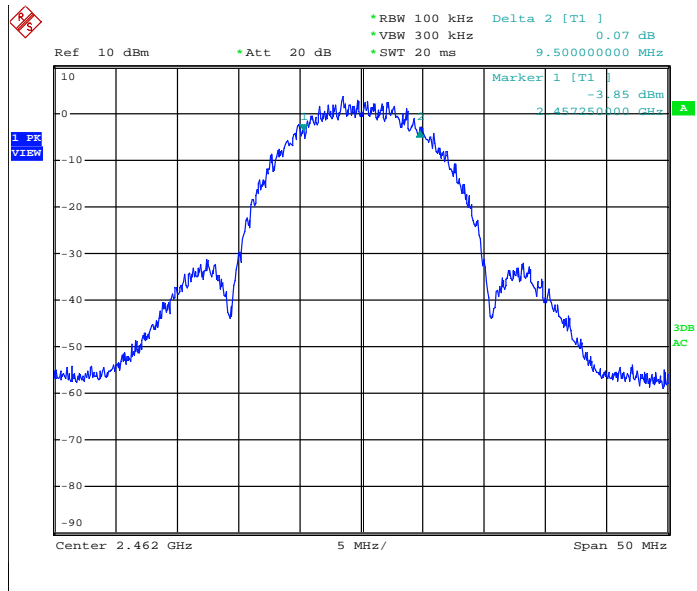
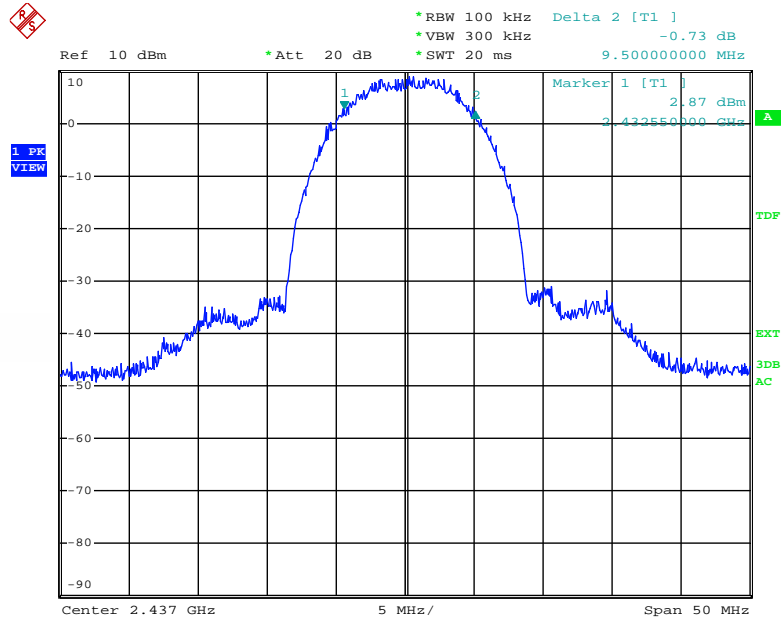
7.4 Measurement Results

6 Bandwidth Test Data Chart:
Refer to attached data chart.

Spectrum Detector: PK Test Date : February 23, 2012
 Test By: Andy Temperature : 28
 Test Result: PASS Humidity : 65 %
 Operation Mode: 802.11b

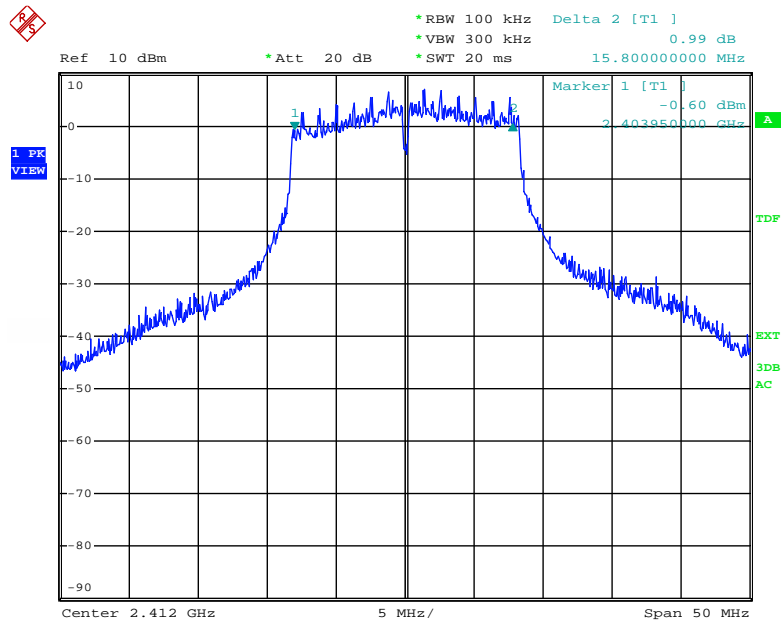
Channel number	Channel frequency (MHz)	Measurement level (MHz)	Required Limit (kHz)
1	2412	9.5	>500
6	2437	9.5	>500
11	2462	9.5	>500

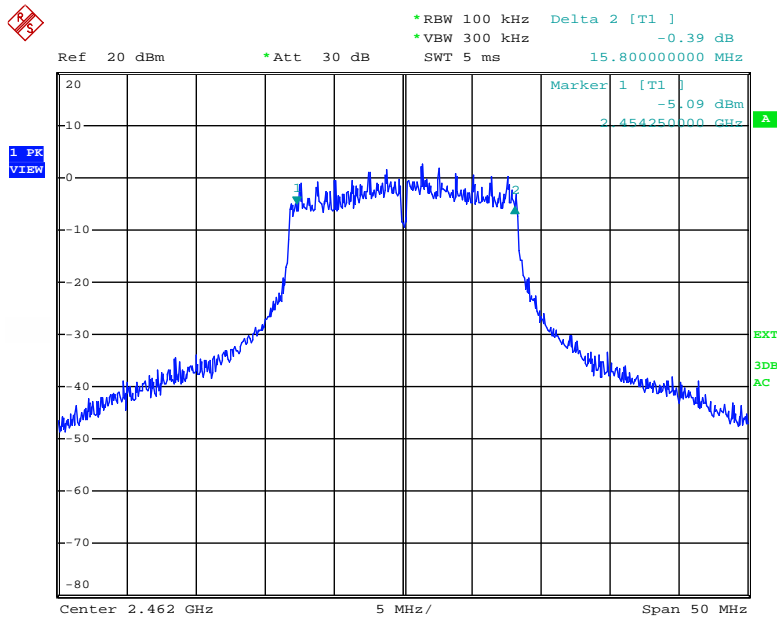
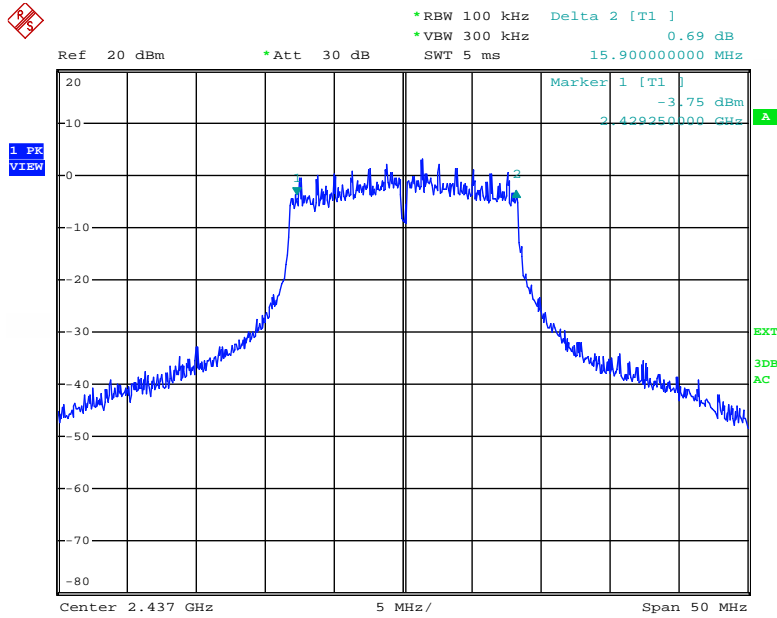




Spectrum Detector: PK Test Date : February 23, 2012
 Test By: Andy Temperature : 28
 Test Result: PASS Humidity : 65 %
 Operation Mode: 802.11 g

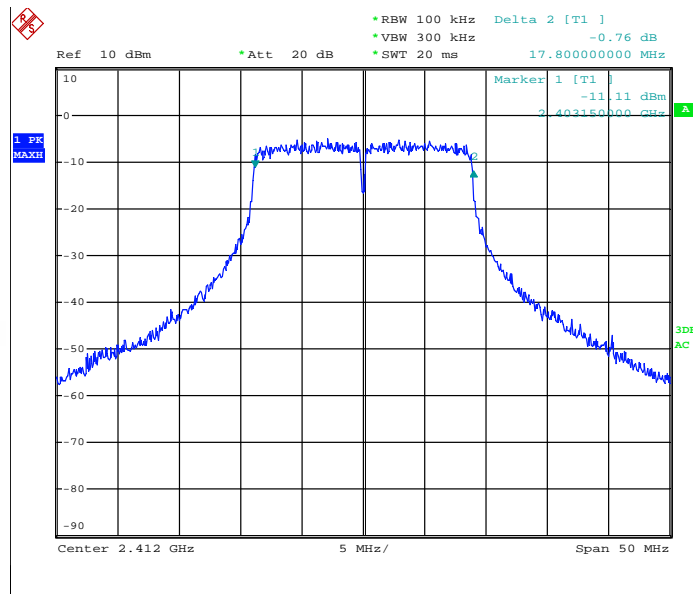
Channel number	Channel frequency (MHz)	Measurement level (MHz)	Required Limit (kHz)
1	2412	15.8	>500
6	2437	15.9	>500
11	2462	15.8	>500

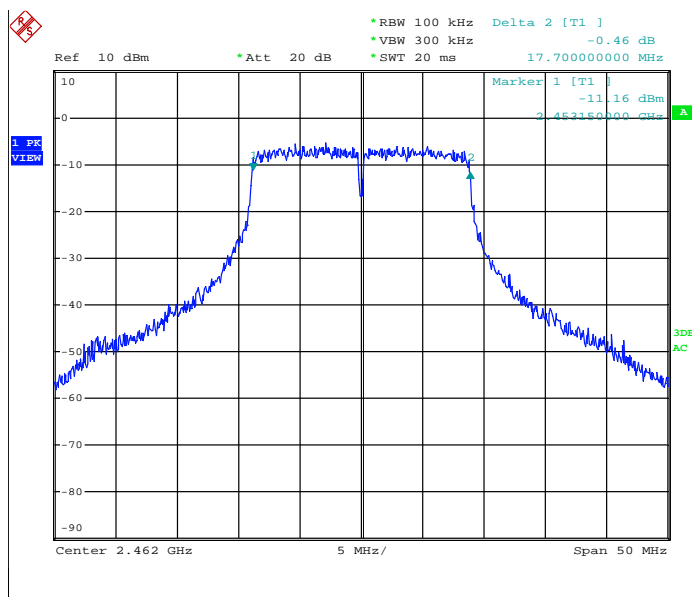
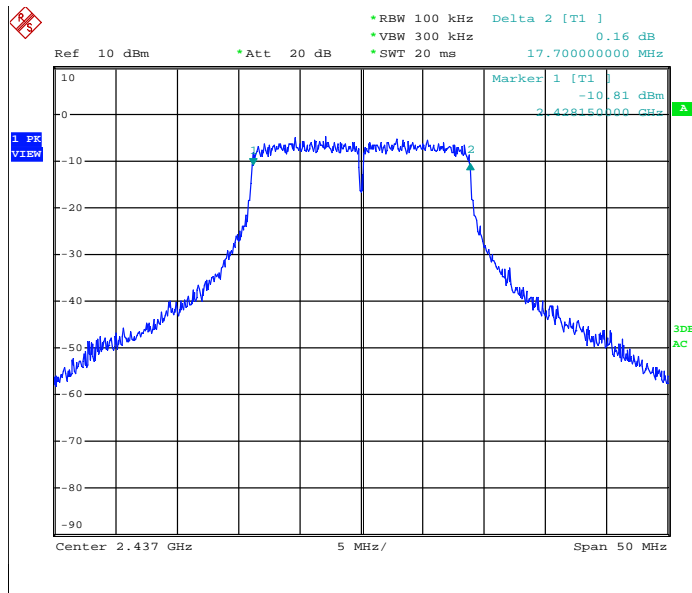




Spectrum Detector: PK Test Date : February 23, 2012
 Test By: Andy Temperature : 28
 Test Result: PASS Humidity : 65 %
 Operation Mode: 802.11 n

Channel number	Channel frequency (MHz)	Measurement level (MHz)	Required Limit (kHz)
1	2412	17.8	>500
6	2437	17.7	>500
11	2462	17.7	>500



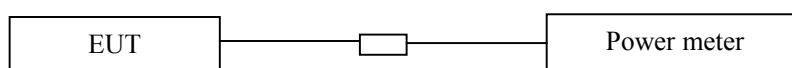


8. Maximum Peak Output Power Test

8.1 Measurement Procedure

- The Transmitter output (antenna port) was connected to the power meter.
- Turn on the EUT and power meter and then record the peak power value.
- Repeat above procedures on all channels needed to be tested.

8.2 Test SET-UP (Block Diagram of Configuration)



8.3 Measurement Equipment Used

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power meter	Boonton	4232A	29001	05/29/2011	05/29/2012
Power sensor	Boonton	51011-EMC	31184	05/29/2011	05/29/2012

8.4 Peak Power output limit

The maximum peak power shall be less 1Watt.

8.5 Measurement Results

Spectrum Detector: PK Test Date : February 23, 2012
 Test By: Andy Temperature : 28
 Test Result: PASS Humidity : 65 %
 Operation Mode: 802.11b

Channel number	Channel Frequency(MHz)	Peak Power output(dBm)	Peak Power Limit(W)	Pass/Fail
1	2412	12.49	1W(30dBm)	PASS
6	2437	12.62	1W(30dBm)	PASS
11	2462	12.58	1W(30dBm)	PASS

Spectrum Detector: PK Test Date : February 23, 2012
Test By: Andy Temperature : 28
Test Result: PASS Humidity : 65 %
Operation Mode: 802.11g

Channel number	Channel Frequency (MHz)	Peak Power output(dBm)	Peak Power Limit(W)	Pass/Fail
1	2412.00	11.31	1W(30dBm)	PASS
6	2437.00	11.29	1W(30dBm)	PASS
11	2462.00	11.35	1W(30dBm)	PASS

Spectrum Detector: PK Test Date : February 23, 2012
Test By: Andy Temperature : 28
Test Result: PASS Humidity : 65 %
Operation Mode: 802.11n

Channel number	Channel Frequency (MHz)	Peak Power output(dBm)	Peak Power Limit(W)	Pass/Fail
1	2412.00	10.56	1W(30dBm)	PASS
6	2437.00	10.63	1W(30dBm)	PASS
11	2462.00	10.77	1W(30dBm)	PASS

9. Band Edge Test

9.1 Measurement Procedure

1. The EUT was Operating in hopping mode or could be controlled its channel. Printed out test result from the spectrum by hard copy function.
2. The EUT was placed on a turn table which is 0.8m above ground plane.
3. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
4. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
5. Repeat above procedures until all frequency measured were complete.

9.2 Test SET-UP (Block Diagram of Configuration)

As 6.2 Test set up (B) and (C)

9.3 Measurement Equipment Used

Same as 6.3 Radiated Emission Measurement.

9.4 Measurement Results

Test mode: 802.11b

Spectrum Detector: PK/AV Test Date : February 23, 2012
 Test By: Andy Temperature : 28
 Test channel: 01 Humidity : 65 %

Frequency (MHz)	Polarity	Level (dBuV/m)		Limited (dBuV/m)	
		PK	AV	PK	AV
2486.29	H	45.49	34.04	74	54
2486.7	V	43.38	31.83	74	54

Spectrum Detector: PK/AV Test Date : February 23, 2012
 Test By: Andy Temperature : 28
 Test channel: 11 Humidity : 65 %

Frequency (MHz)	Polarity	Level (dBuV/m)		Limited (dBuV/m)	
		PK	AV	PK	AV
2485.27	H	44.51	33.29	74	54
2486.35	V	44.36	32.15	74	54

Test mode: 802.11g

Spectrum Detector: PK/AV Test Date : February 23, 2012
 Test By: Andy Temperature : 28
 Test channel: 01 Humidity : 65 %

Frequency (MHz)	Polarity	Level (dBuV/m)		Limited (dBuV/m)	
		PK	AV	PK	AV
2395.76	H	45.04	32.73	74	54
2394.77	V	45.11	32.62	74	54

Spectrum Detector: PK/AV Test Date : February 23, 2012
 Test By: Andy Temperature : 28
 Test channel: 11 Humidity : 65 %

Frequency (MHz)	Polarity	Level (dBuV/m)		Limited (dBuV/m)	
		PK	AV	PK	AV
2485.72	H	45.16	33.53	74	54
2487.03	V	43.43	31.3	74	54

Test mode: 802.11n

Spectrum Detector: PK/AV Test Date : February 23, 2012
 Test By: Andy Temperature : 28
 Test channel: 01 Humidity : 65 %

Frequency (MHz)	Polarity	Level (dBuV/m)		Limited (dBuV/m)	
		PK	AV	PK	AV
2396.02	H	44.94	32.5	74	54
2394.71	V	45.23	33.7	74	54

Spectrum Detector: PK/AV Test Date : February 23, 2012
 Test By: Andy Temperature : 28
 Test channel: 11 Humidity : 65 %

Frequency (MHz)	Polarity	Level (dBuV/m)		Limited (dBuV/m)	
		PK	AV	PK	AV
2486.29	H	45.49	34.04	74	54
2486.7	V	43.38	31.83	74	54

10. Power Density

10.1 Test Equipment

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	Rohde & Schwarz	ESCI	101045	05/29/2011	05/29/2012

10.2 Measuring Instruments and Setting

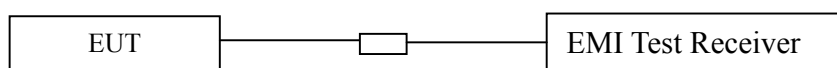
The following table is the setting of spectrum analyzer.

Spectrum analyzer	Setting
Attenuation	Auto
Span Frequency	300kHz
RB	3kHz
VB	30kHz
Detector	Peak
Trace	Max hold
Sweep Time	100s

10.3 Test Procedures

- The transmitter output (antenna port) was connected to the spectrum analyzer.
- Set RBW of spectrum analyzer to 3 kHz and VBW to 30 kHz, Set Detector to Peak, Trace to Max Hold.
- Mark the frequency with maximum peak power as the center of the display of the spectrum.
- Set the span to 300 kHz and the sweep time to 100s and record the maximum peak value.

10.4 Block Diagram of Test Setup



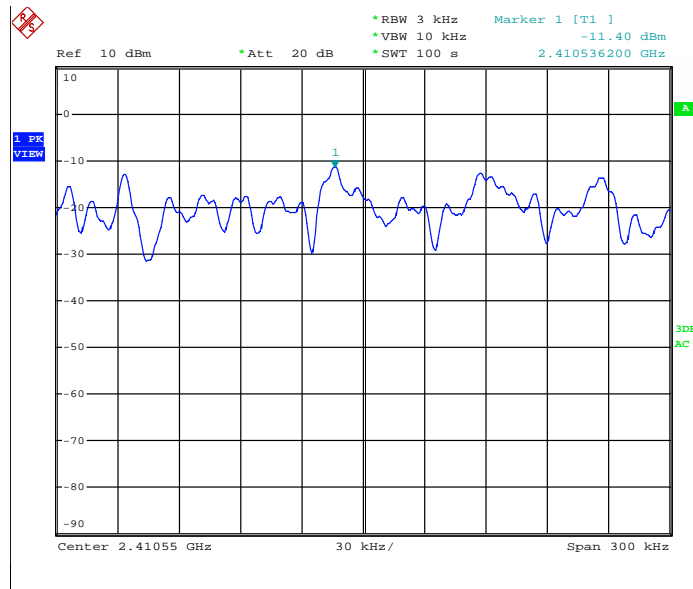
10.5 Limit

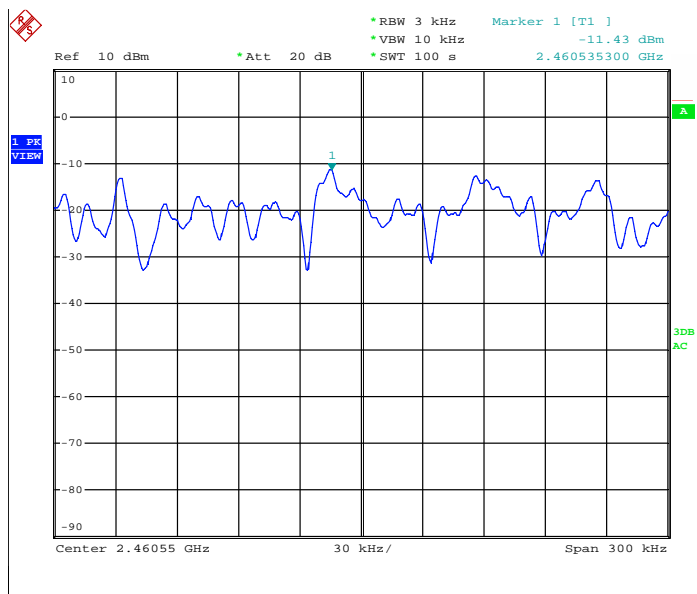
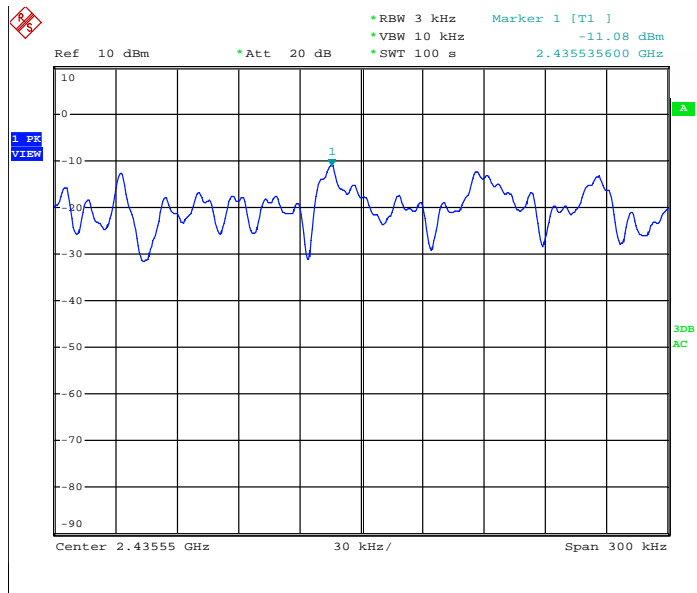
The transmitted power density averaged over any 1 second interval shall not be greater +8dBm in any 3 kHz bandwidth.

10.6 Test Result

Spectrum Detector:	PK	Test Date :	February 23, 2012
Test By:	Andy	Temperature :	28
Test Result:	PASS	Humidity :	65 %
Operation Mode:	802.11 b		

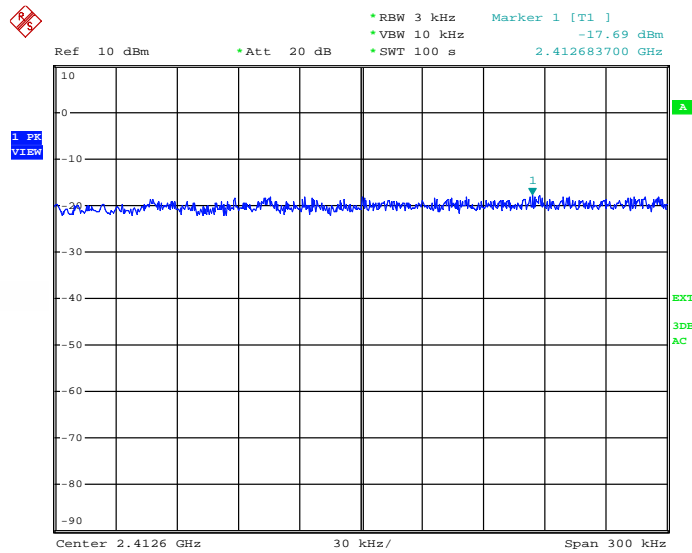
Channel	Measurement Level (dBm)	Required Limit (dBm)	Result
1	-11.40	<8dBm	PASS
6	-11.08	<8dBm	PASS
11	-11.43	<8dBm	PASS

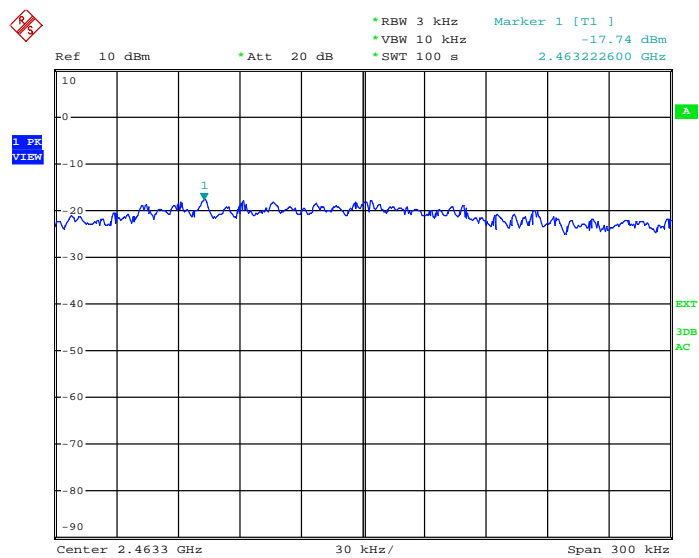
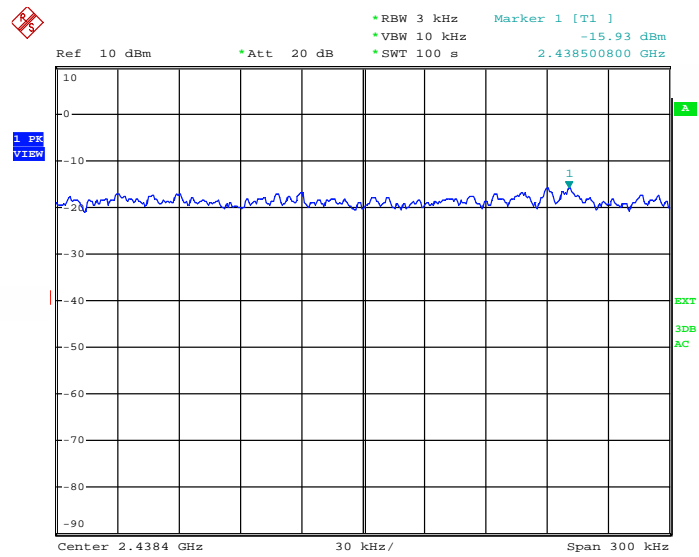




Spectrum Detector: PK Test Date : February 23, 2012
 Test By: Andy Temperature : 28
 Test Result: PASS Humidity : 65 %
 Operation Mode: 802.11 g

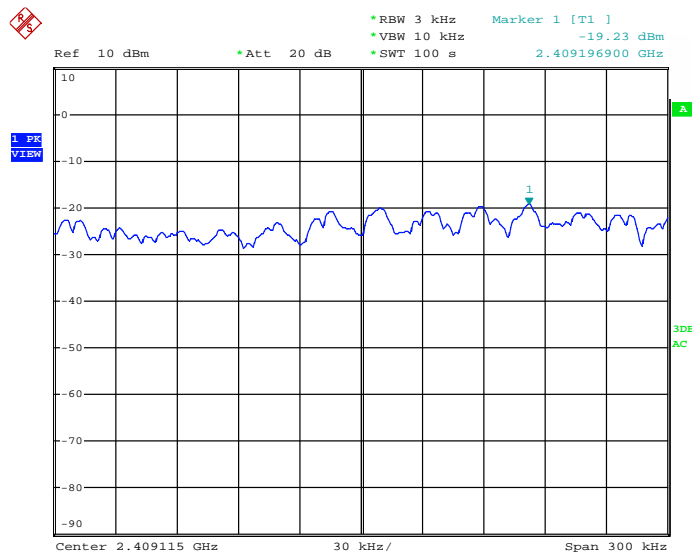
Channel	Measurement Level (dBm)	Required Limit (dBm)	Result
1	-17.69	<8dBm	PASS
6	-15.93	<8dBm	PASS
11	-17.74	<8dBm	PASS

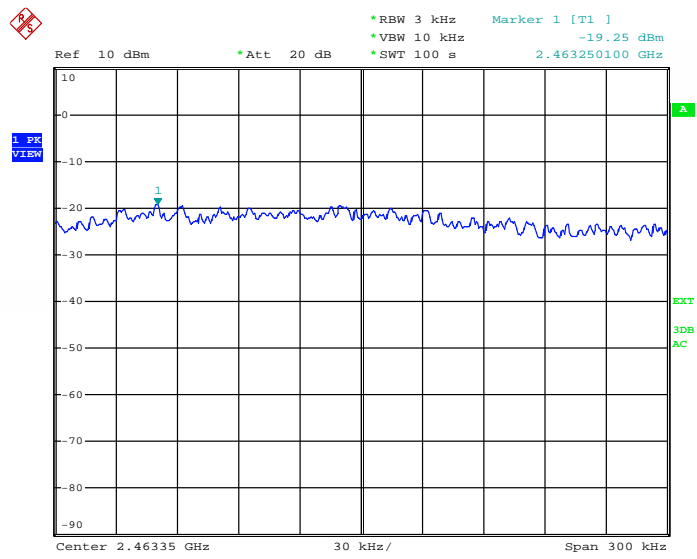
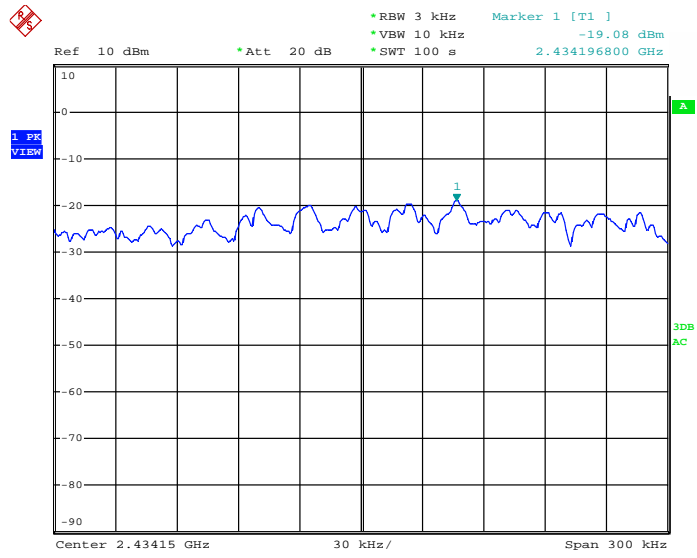




Spectrum Detector: PK Test Date : February 23, 2012
 Test By: Andy Temperature : 28
 Test Result: PASS Humidity : 65 %
 Operation Mode: 802.11 n

Channel	Measurement Level (dBm)	Required Limit (dBm)	Result
1	-19.23	<8dBm	PASS
6	-19.08	<8dBm	PASS
11	-19.25	<8dBm	PASS





11. Antenna Port Emission

11.1 Test Equipment

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	Rohde & Schwarz	ESU	1302.6005.26	05/29/2011	05/29/2012

11.2 Measuring Instruments and Setting

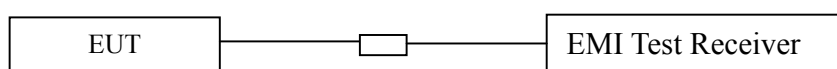
The following table is the setting of spectrum analyzer.

Spectrum analyzer	Setting
Attenuation	Auto
RB	100kHz
VB	300kHz
Detector	Peak
Trace	Max hold

11.3 Test Procedures

The conducted spurious emissions were measured conducted using a spectrum analyzer at low, Middle, and high channels, The limit was determined by attenuation 20dB of the RF peak power output.

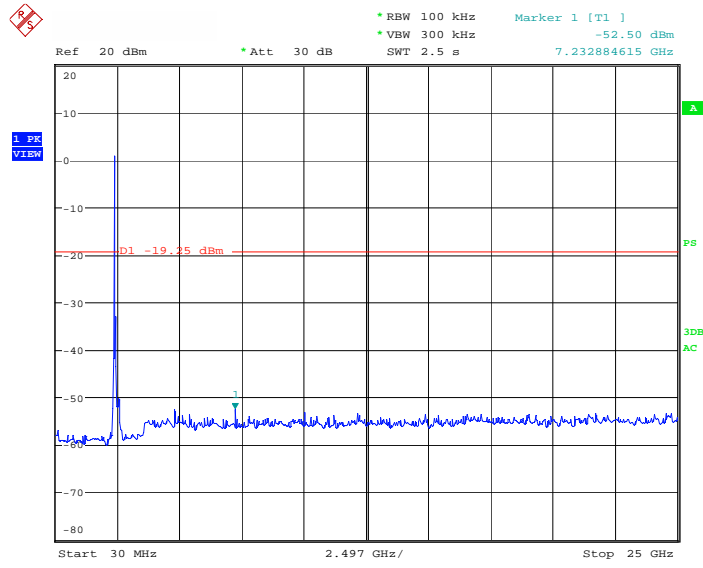
11.4 Block Diagram of Test setup



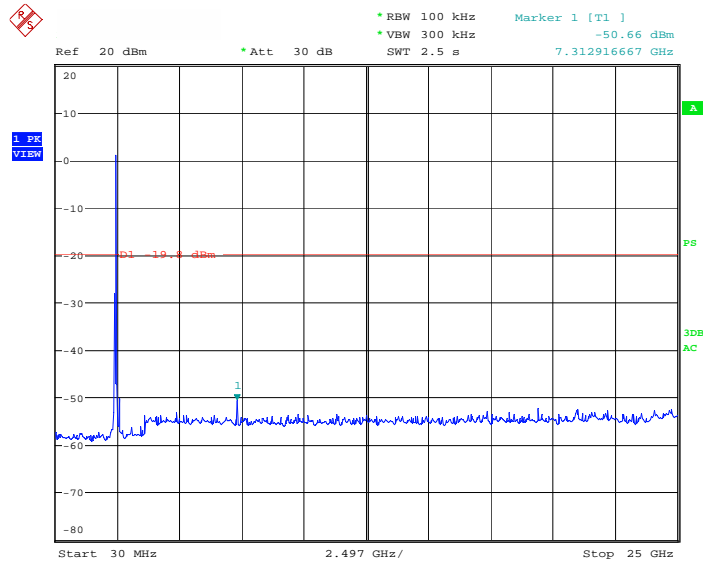
11.5 Test Result

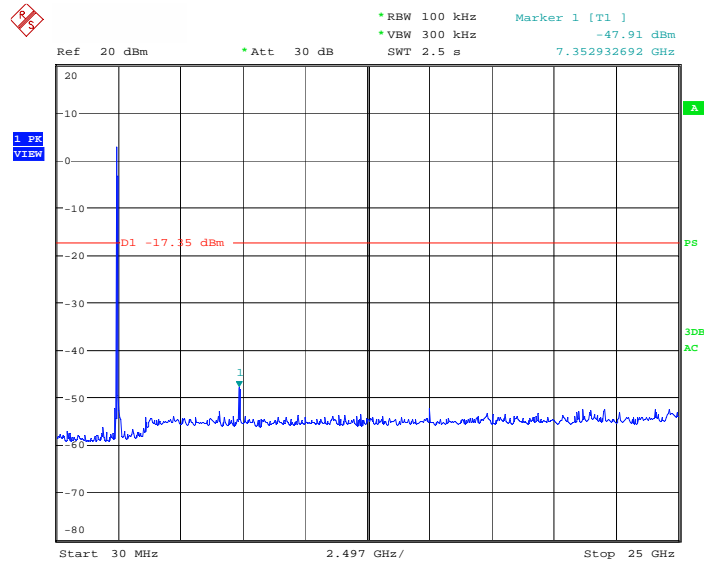
PASS.

All the modes 802.11b/g/n have been tested, the worst result 802.11b was recorded in the following pages.



802.11b Channel 6





12. Antenna Application

12.1 Antenna Requirement

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

12.2 Result

The EUT'S antenna is PCB Antenna. The antenna's gain is 0dBi and meets the requirement.