Certificate of Test

March 2007

E-TOP Network Technology Inc.

Product Type	**: Broadband Router**
Model Number	**: BR330g**
Brand Name	**: E-Top**
Test Report Number	**: 0611087 Rev. 1**
Date of Test	**: February 12, 2007 – March 22, 2007**

This Product was tested to the following standards at the laboratory of Global EMC Standard Tech. Corp., and found Compliance.

Standards:
FCC Part 15 Subpart C Paragraph 15.247
ANSI C63.4: 2003

http : //www.gestek.com.tw

Sharon Chang, President

Date: March 29, 2007

GesTek EMC Lab
N0. 3, Pau-Tou-Tsuo Valley, Chia-Pau Tsuen,
Lin Kou Hsiang, Taipei County, Taiwan, R.O.C.
TEL:886-2-2603-5321
FAX:886-2-2603-5325

NEMKO NVLAP 200085-0 VCCI

Test Report Application for Certification

On Behalf Of

E-TOP Network Technology Inc.

EUT:

Broadband Router

Model Number:

BR330g

FCC ID:

U6ABR330g

Prepared for:

E-TOP Network Technology Inc.

No.82, Gongye 2nd Rd., Tainan City 70955, Taiwan, R.O.C.

Report By :Global EMC Standard Tech. Corp.

No.3 Pau-Tou-Tsuo Valley, Chia-Pau

Tsuen, Lin Kou Hsiang, Taipei County,

Taiwan, R.O.C.

Tel : 886-2-2603-5321

Fax : 886-2-2603-5325

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1. CERTIFICATION

Applicant : E-TOP Network Technology Inc.

EUT Description	: Broadband Router
Model Number	: BR330g
Serial Number	: N/A
Brand Name	: E-Top
FCC ID	: U6ABR330g
Tested Power Supply	: 120V/60Hz
Manufacturer	: E-TOP Network Technology Inc.

MEASUREMENT PROCEDURES USED:

☑ **CFR 47, Part 15**	Radio Frequency Device Subpart C Paragraph 15.247 Intentional Radiators :2006
☑ **ANSI C63.4**	Methods of Measurements of Radio-Noise Emissions from Low- Voltage Electrical and Electronic Equipment in the range of 9kHz To 40GHz. 2003

THE MEASUREMENT SHOWN IN THE ATTACHMENT WAS MADE IN ACCORDANCE WITH THE PROCEDURES INDICATED, AND THE MAXIMUM ENERGY EMITTED BY THE EQUIPMENT WAS FOUND TO BE WITHIN THE ABOVE LIMITS APPLICABLE.

200085-0

Date of Test : February 12, 2007 – March 22, 2007

In order to ensure the quality and accuracy of this document, the contents have been thoroughly reviewed by the following qualified personnel from GesTek Lab.

Documented By :

Susan Chen / adm. Dept. Technical Report Author

Tested By :

John Wu / eng. Dept. Engineer

Technical Reviewed By :

Shine Chang / eng. Dept. Supervisor

Approved By :

Tonny Lin / General Manager

This test data shown below is traceable to National or international standard such as NIST/USA, etc. The laboratory's NVLAP accreditation in no way constitutes or implies product certification, approval, or endorsement by NVLAP or the United States government.

2. GENERAL INFORMATION

2.1 PRODUCTION DESCRIPTION

Product Name : Broadband Router
Model Number : BR330g
Serial Number : N/A
FCC ID : U6ABR330g
Modulation Type : DSSS, DBPSK, DQPSK, OFDM, CCK
Antenna Gain : 0dBi
Antenna Type : Dipole
Type of Antenna joint Reverse SMA (Male)
Frequencg Range : 2412-2462MHz
Channel Number : 11 Channel
Data Rate : 1, 2, 5.5, 11, 6, 9, 12, 18, 24, 36, 48, 54Mbps
Channel Control : Control by Software
Working Voltage : AC 100~240V

Frequency of Each Channel:

(1) WLAN :

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 a 2.4GHz Broadband Router included 802.11b and 802.11g 2.4GH transceiver function.
2. Test of channel was included the lowest、middle and highest frequency in highest data rate and to perform the test, then record on this report.
3. The antenna of EUT is Dipole with reverse SMA and conform to FCC 15.203.
4. These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15 Subpart C Paragraph 15.247 for spread spectrum devices.
5. The device is a transceiver equipement to accordance with Part 15 regulations. The function receiving was under Declaration of Conformity and record of measurment in test report that the report number is 0611087 FCC DOC.

2.2 OPERATIONAL DESCRIPTION

The Transmitter of EUT is a Broadband Router and powered by AC adapter. This device have one antenna. The other instruction, please look at user manual.
This is Digital transmission System(DTS) and have four type of modulation DSSS, DBPSK, DQPSK,OFDM, CCK. The data rate are 1,2,5.5,11,6,9,12,18,24,36,48.54 Mbps. The equipment enables high-speed access without wires to network assets. This adapter uses the IEEE 802.11b & 802.11g protocol to enable wireless communications between the host computer and other computers, in the same way that the computer would use an Ethernet adapter.

2.3 TEST MODES & EUT COMPONENTS DESCRIPTION

EUT: Broadband Router, M/N: BR330g **The EUT tested with Notebook PC.**		
Test Mode	**Continue Transmit**	
	Mode 1	**Mode 2**
	802.11b	802.11g

2.4 SUMMARY OF TEST PROCEDURE AND TEST RESULTS

Test Item	Applied Standard Section	Test Resut
Conduction Emission	15.207, ANSI C63.4 Section 7	Pass (refer to section 3.7)
Radistion Emission	15.209, ANSI C63.4 Section 8	Pass (refer to section 4.7)
Peak Power Output	15.247(b), ANSI C63.4 Section 13 & Annex I	Pass (refer to section 5.4)
Band Edge	15.247(c) , ANSI C63.4 Section 13 & Annex I	Pass (refer to section 6.6)
Occupied Bandwidth	15.247(a) , ANSI C63.4 Section 13 & Annex I	Pass (refer to section 7.4)
Power Density	15.247(d) , ANSI C63.4 Section 13 & Annex I	Pass (refer to section 8.4)

2.5 CONFIGURATION OF THE TESTED SYSTEM

The FCC IDs/Types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards, which have grants) are:

Device	No.	Configuration
NOTEBOOK	**DELL NB 1**	Model Number : Latitude D600 PPO5L BSMI ID : R33002 FCC ID E2K24CLNS Serial Number : 10826163280 C.P.U : Intel Pentium M 1.4G HZ DDR : PC2100 256MB WIRELESS LAN Manufacturer :INTEL CARD M/N:WM3A2100 FCC ID: E2K24CLNS F.D.D : N/A H.D.D. : Manufacturer : FUJITSU 30G M/N: MHT2030AT S/N:NN15T421E09C BSMI ID:D33073 DVD-ROM : Manufacturer :DELL M/N:5W299-A01 BATTERY : Manufacturer :DELL Li-ion MODULE M/N:6Y270 RATING:14.8V 220mAh AC ADAPTOR : Manufacturer :DELL M/N: PA-1650-05D S/N:CN-05U092-48010-39N-227C INPUT:AC 100-240 V~1.5A 50-60HZ Shielded, Undetachable, 2.5m

Device	No.	Configuration
NOTEBOOK	**DELL NB 2**	Model Number : Latitude D600 PPO5L BSMI ID : R33002 Serial Number : 11444680576 C.P.U : Intel Pentium M 1.4G HZ DDR : PC2100 256MB F.D.D : N/A H.D.D. : Manufacturer : HITACHI 20.G M/N: IC25N020ATMR04-0, S/N:MRG157K1GJP9JH BSMI ID:D33082 CD-ROM : Manufacturer :DELL M/N:6T980-A01 BATTERY : Manufacturer :DELL Li-ion MODULE M/N:6Y270 RATING:14.8V 220mAh AC ADAPTOR : Manufacturer :DELL M/N: PA-1650-05D S/N:CN-05U092-71615-41K-58C3 INPUT:AC 100-240 V~1.5A 50-60HZ Shielded, Undetachable, 2.5m

Device	No.	Configuration
PC System	**DELL PC 6**	Model Number : Dimension 4600 BSMI ID : R33002 Serial Number : HW4NB1S C.P.U : Intel Pentium 4 2.8GHz/533MHz DDR : HYNIX PC2700 128M *2 VGA : Manufacturer :ASUS M/N:A9600SE/TD/128M/A S/N:43CG115386 BSMI ID:D3005 H.D.D. : Manufacturer : WD 40G M/N:WD400BB-75FJA1 BSMI ID:D33015 CD-RW/DVD-ROM : Manufacturer :Toshiba M/N:sw-252 BSMI ID:D33020 Mother Board : DELL M/N:E210882 S.P.S : DELL M/N:NPS-250KB F Input:100-120V 9A , 200-240V 4.5A 50/60 Hz Output:+5V/22A,-12V/1A,+12V/16A,+3.3V/18A +5VSB/2A BSMI ID:D33002

Device	No.	Configuration
PC System	**HP PC06**	Model Number : Pavilion a000 BSMI ID : R33001 Serial Number : TWL410000F C.P.U : AMD Athlon XP 2400+ DDR : infineon PC2700 256M *2 DDR333 FDD MITSUMI M/N:D353M3D BSMI ID:D63119 H.D.D. : Manufacturer :SAMSUNG M/N:SV041IN 40G BSMI ID:D33475 DVD-ROM : Manufacturer :PHILIPS M/N:DR0M6016/4A BSMI ID:D43002 Mother Board : ASUS M/N:A7V8X-LA BSMI ID:D33005 S.P.S : HIPRO M/N:HP-D2537F3H Input:100-127V /6 A , 200-240V/ 4A 47~63 Hz Output:+5V/22A,-12V/0.8A,+12V/14A,+3.3V/18A +5VSB/2A BSMI ID:D33036

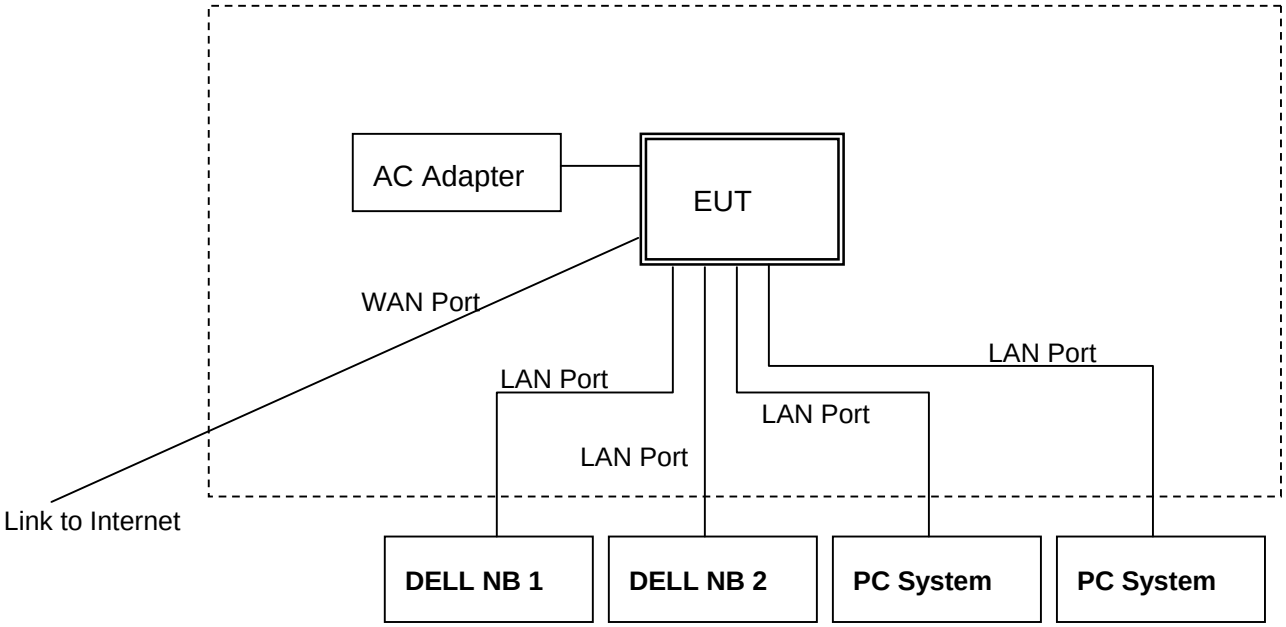
2.6 TEST FACILITY

Ambient conditions in the laboratory:

ITEMS	Requirement
TEMPERATURE (°C)	15-35
HUMIDITY (%RH)	30-60
BAROMETRIC PRESSURE (mbar)	860-1060
FCC SITE DESCRIPTION	Aug. 10, 1995 /Aug. 25, 1998 File on FCC Engineering Laboratory Federal Communication Commission 7435 Oakland Mills Road Columbia, MD 21046 Reference 31040/SIT1300F2
NVLAP LAB. CODE	200085-0 United Stated Department of commerce National Institute of Standards and Technology National Voluntary Laboratory Accreditation Program Accreditation on NVLAP effective through Sep. 30,2007 For CISPR 22, FCC Method and AS/NZS CISPR 22 Measurement.
Chinese National Laboratory Accreditation Certificate R.O.C.	Recognized by the Council of Chinese National Laboratory Accreditation and confirmed to meet the requirements of ISO/IEC 17025 also has been registered for fifteen items, and meet the requirements of the Article 4 of Measures Governing the Recognition both Approval of Designated Laboratory for Commodities Inspection and has been registered for four items within the field of Electrical Testing. Registration No.: 1082 Registration on CNLA effective through Sep. 19,2009

2.7 TEST SETUP

2.7.1 BLOCK DIAGRAM OF CONNECTIONS BETWEEN EUT AND SIMULATORS



2.8 EUT OPERATING CONDITIONS

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

1. Setup the EUT and simulators as shown on 2.6.
2. Turn on the power of all equipments.
3. The EUT ping with the wireless LAN card.
4. Confirm EUT is transmit signal continue.
5. Repeat the above steps.

3. CONDUCTION EMISSION DATA

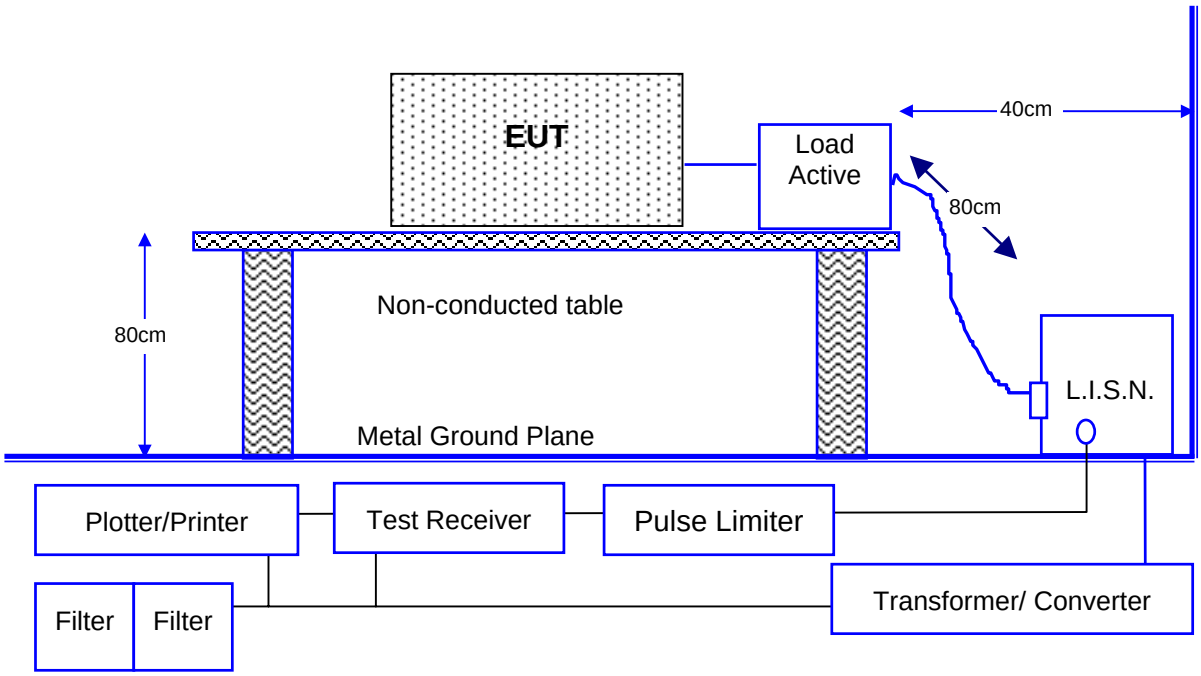
3.1 TEST EQUIPMENTS

The following test equipment are used during the conducted power line tests:

Item	Instrument	Manufacturer	Model	Serial No.	Last Cal.
1	Test Receiver	R & S	ESCS30	100352	07/17/06
2	L.I.S.N.	ROLF HEINE	NNB-2/16Z	99042	12/22/06
3	Pulse Limiter	R & S	ESH3-Z2	357.8810.52	08/03/06
4	RF CABLE	GTK	N/A	GTK-E-A154-01	11/28/06
5	50 Ohm Terminator	GesTek	N/A	GTK-E-A130-01	N/A
6	Shielded Room	GesTek	N/A	B5	N/A

Note: All measurement critical items of test instrumentation were within their calibration period of 1 year.

3.2 BLOCK DIAGRAM OF TEST SETUP



Note: This is a reprehensive setup diagram for Table-top EUT.
For Floor-standing EUT, the table will be removed with all others setup condition remain the same.

3.3 CONDUCTED EMISSION LIMIT

☒FCC Limit (15.207)

Frequency	Conducted Limits dB(μV)	
MHz	QUASI-PEAK	AVERAGE
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5.0	56	46
5.0 to 30	60	50

Remarks : In the Above Table, the tighter limit applies at the band edges.

3.4 OPERATING CONDITION OF EUT

Same as section 2.7.

3.5 EUT CONFIGURATION ON MEASUREMENT

The equipment, which is listed 3.1, is installed on Conducted Power Line Test to meet the Commission requirement and operating in a manner, which tends to maximize its emission characteristics in a normal application.
The device under test, installed in a representative system as described in section 3.2, was placed on a non-conductive table whose total height equal to 80cm. Powered from one L.I.S.N. which signal output to receiver, and the other peripherals was powered from another L.I.S.N. which signal output was terminated by 50Ω.

3.6 CONDUCTED EMISSION DATA

The measurement range of conducted emission from **0.15 MHz to 30 MHz** was investigated. All readings are quasi-peak and average values with a resolution Bandwidth of 9 KHz. The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range for all the test modes. Then the worst modes were reported the following data pages.

3.7 CONDUCTED EMISSIONS MEASUREMENT RESULTS

Date of Test	February 27, 2007	**Temperature**	24 ℃
EUT	Broadband Router	**Humidity**	53 %
Test Mode	TX Mode – Continue Transmit	**Display Pattern**	N/A

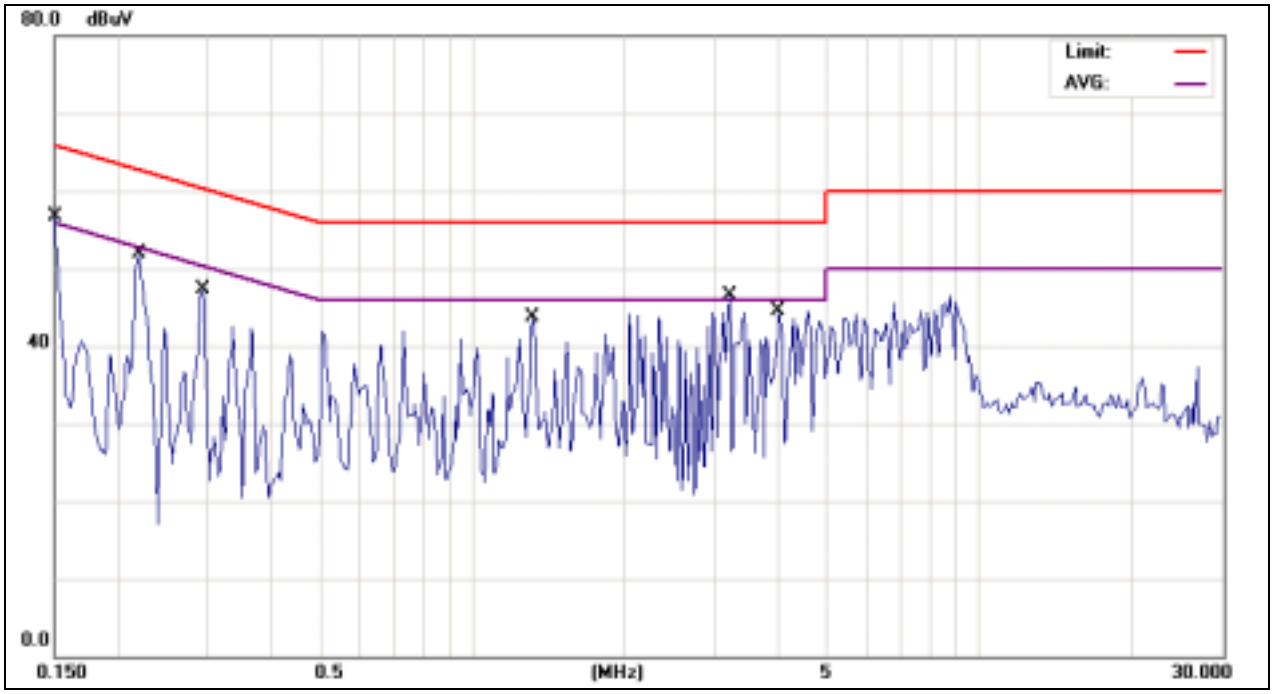
Line

No.	Frequency MHz	Reading Level dBµV	Factor dB	Measurement dBµV	Limit dBµV	Over Limit dB	Detector
1	0.1512	42.58	10.16	52.74	65.93	-13.19	QP
2	0.1512	35.64	10.16	45.80	55.93	-10.13	AVG
3	0.2188	40.45	10.18	50.63	62.86	-12.23	QP
4	0.2188	34.23	10.18	44.41	52.86	-8.45	AVG
5	0.2933	35.69	10.20	45.89	60.43	-14.54	QP
6	0.2933	27.53	10.20	37.73	50.43	-12.70	AVG
7	1.3156	32.13	10.13	42.26	56.00	-13.74	QP
8	1.3156	24.21	10.13	34.34	46.00	-11.66	AVG
9	3.2223	35.03	10.20	45.23	56.00	-10.77	QP
10	★3.2223	30.42	10.20	40.62	46.00	-5.38	AVG
11	4.0245	33.92	10.18	44.10	56.00	-11.90	QP
12	4.0245	26.71	10.18	36.89	46.00	-9.11	AVG

Remarks :

1. All readings are Quasi-peak and Average values.
2. Measurement = Reading + Factor (Could have ±0.01 tolerance due to computer automatically round off calculation).
3. Over Limit (Margin Value)=Measurement level-Limit value.
4. " ★ " means that this data is the worse case measurement level.

Line



Remark: 1. The "Limit" in right-up corner in above diagram refers to Quasi-peak ; "AVG" refers to the limit of Average.

Date of Test	February 27, 2007	**Temperature**	24 ℃
EUT	Broadband Router	**Humidity**	53 %
Test Mode	TX Mode – Continue Transmit	**Display Pattern**	N/A

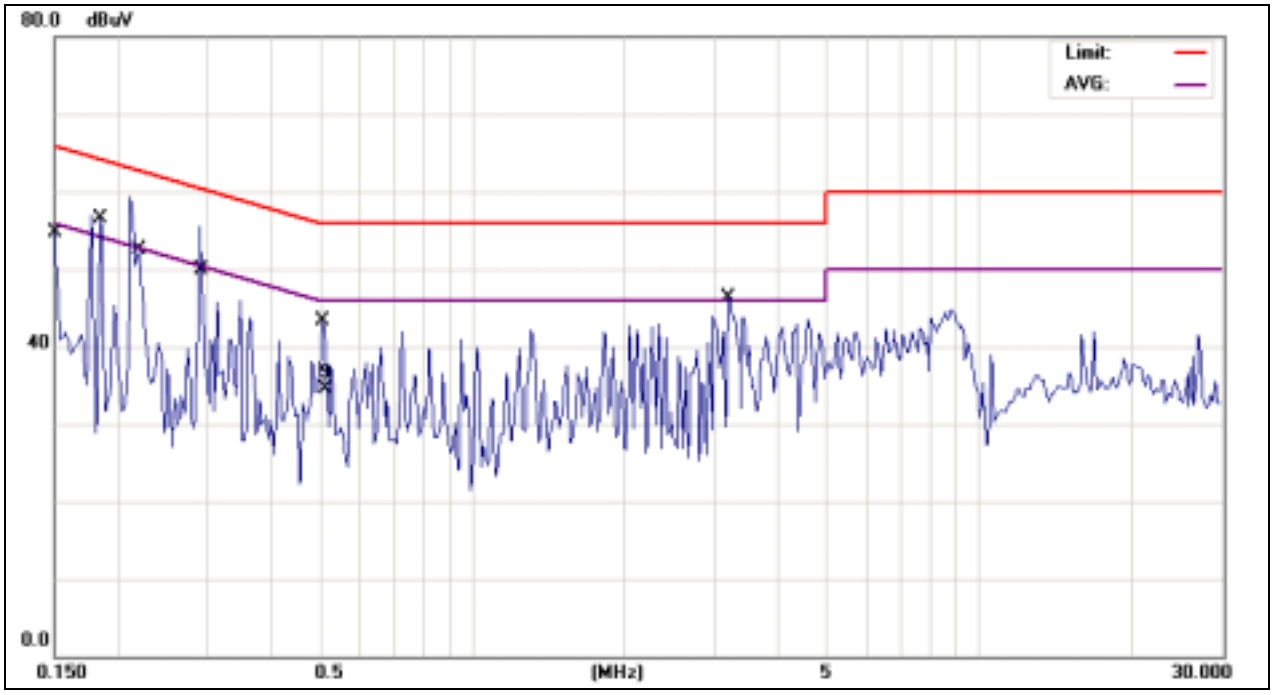
Neutral

No.	Frequency MHz	Reading Level dBµV	Factor dB	Measurement dBµV	Limit dBµV	Over Limit dB	Detector
1	0.1502	47.29	10.16	57.45	65.99	-8.54	QP
2	0.1502	35.70	10.16	45.86	55.99	-10.13	AVG
3	0.1845	43.27	10.17	53.44	64.28	-10.84	QP
4	0.1845	17.40	10.17	27.57	54.28	-26.71	AVG
5	0.2192	42.77	10.18	52.95	62.85	-9.90	QP
6	0.2192	33.20	10.18	43.38	52.85	-9.47	AVG
7	0.2949	38.49	10.20	48.69	60.39	-11.70	QP
8	0.2949	25.63	10.20	35.83	50.39	-14.56	AVG
9	0.5105	24.24	10.25	34.49	56.00	-21.51	peak
10	0.5105	24.17	10.25	34.42	46.00	-11.58	AVG
11	3.2121	34.48	10.24	44.72	56.00	-11.28	QP
12	★3.2121	28.19	10.24	38.43	46.00	-7.57	AVG

Remarks :

1. All readings are Quasi-peak and Average values.
2. Measurement = Reading + Factor (Could have ±0.01 tolerance due to computer automatically round off calculation).
3. Over Limit (Margin Value)=Measurement level-Limit value.
4. " ★ " means that this data is the worse case measurement level.

Neutral



Remark: 1. The "Limit" in right-up corner in above diagram refers to Quasi-peak ; "AVG" refers to the limit of Average.

4. RADIATION EMISSION DATA

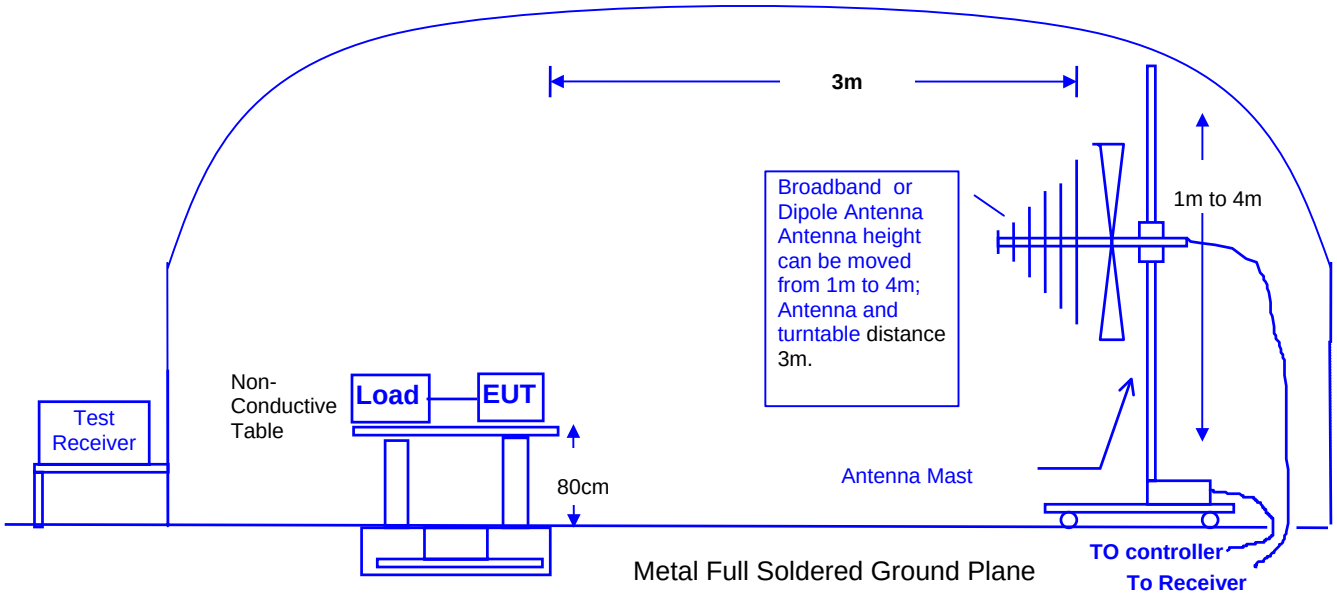
4.1 TEST EQUIPMENT

Item	Instrument	Manufacturer	Model	Serial No.	Last Cal.
1	Test Receiver	R & S	ESCS30	100352	01/12/07
2	Spectrum Analyzer	HP	8594A	3235A00402	10/30/06
3	Spectrum Analyzer	HP	E4407B	US39240339	07/26/06
4	Power Meter	R & S	NRVS	100666	04/07/06
5	Peak Power Sensor	R & S	NRV-Z32	836019-058	04/07/06
6	Pre-Amplifier	EMV-Technik	PA303	N/A	04/21/06
7	BILOG ANTENNA	SCHAFFNER	CBL6112D	22023	03/10/07
8	Horn Antenna	ELECTRO-METRICS	EM-6961	103318	01/25/07
9	Horn Antenna	SCHWARZBECK	BBHA 9120	D243	12/25/06
10	RF Cable	GTK	N/A	GTK-E-A344-01	04/21/06
11	CHAMBER	GTK	N/A	A6	12/04/06
12	Test Program Software	GesTek	N/A	GTK-E-S001-01	N/A

Note: All measurement critical items of test instrumentation were within their calibration period of 1 year.

4.2 OPEN TEST SITE SETUP DIAGRAM

Note: This is a reprehensive setup diagram for Table-top EUT.
For Floor-standing EUT, the table will be removed with all others setup condition remain the same.



4.3 RADIATED EMISSION LIMIT

☒**FCC 15.209 Limit**

Frequency	Distance	Field Strength	
MHz	Meter	μV/m	dBμV/m
30 to 88	3	100	40.0
88 to 216	3	150	43.5
216 to 960	3	200	46.0
Above 960	3	500	54.0

Note: The frequencies above 1000MHz, as measured using instrumentation with a peak detector function was corresponding to 20dB above the maximum permitted average limit.

4.4 EUT CONFIGURATION

The equipment, which is listed on 4.1 was, installed on radiated emission test to meet the commission requirement and operating in a manner which tends to maximize its emission characteristics in a normal application.

The device under test, installed in a representative system as described in section 4.2, was placed on a non-conductive table whose total height equaled 80 cm. This table can be rotated 360 degree. The measurement antenna was mounted to a non-conductive mast capable of moving the antenna vertically. Antenna height was varied from 1 meter to 4 meters and the system under test was rotated from 0 degree through 360 degrees relative to the antenna position and polarization (Horizontal and Vertical). Also the I/O cable position was investigated to find the maximum emission condition.

4.5 OPERATING CONDITION OF EUT

Same as section 2.7.

4.6 RADIATED EMISSION DATA

The measurement range of radiated emissions from **30 MHz to 10 Harminics** was investigated. All readings below 1GHz are quasi-peak values with a resolution bandwidth of 120 KHz. Above 1GHz are peak and avg. values with a resolution bandwidth of 1MHz. The initial step in collecting radiated emission data is a spectrum analyzer peak scans of the measurement range for all the test modes and then use test receiver for final measurement. Then the worst modes were reported the following data pages..

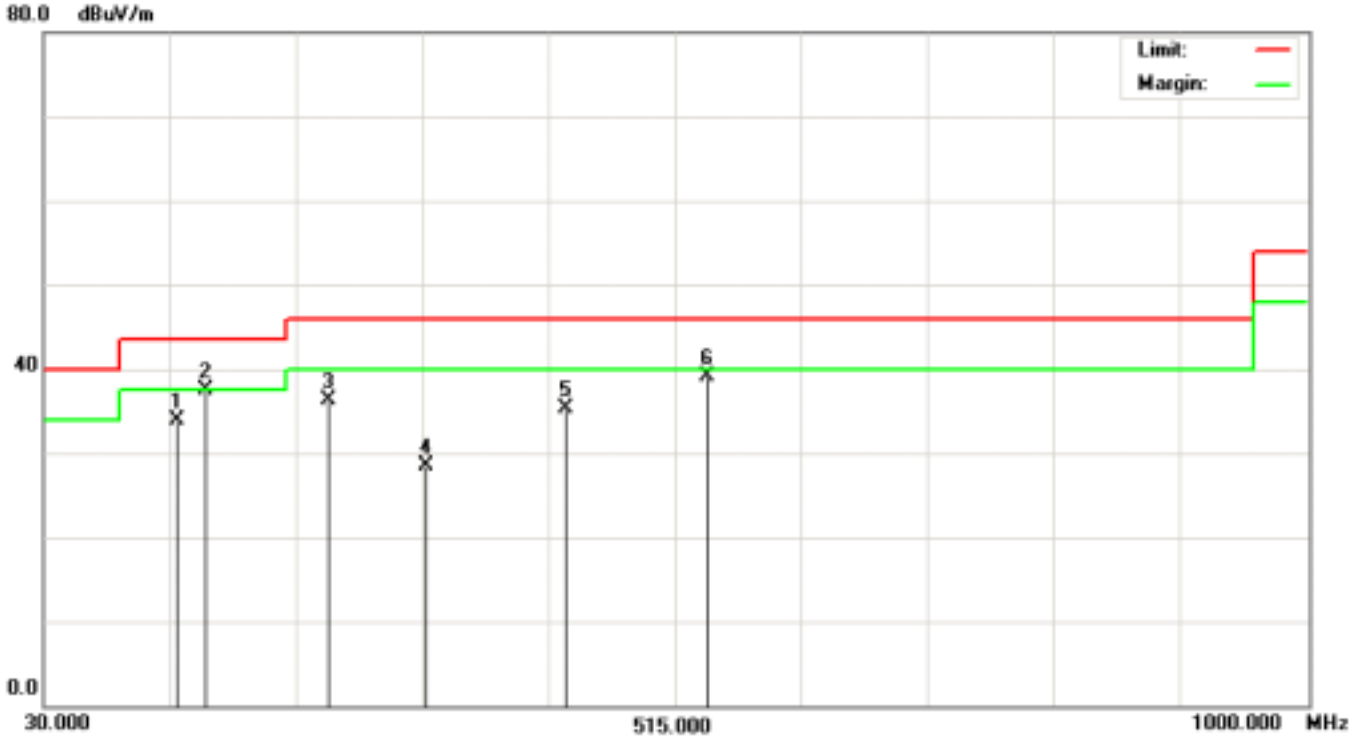
4.7 RADIATED EMISSIONS MEASUREMENT RESULTS

Date of Test	February 27, 2007	**Temperature**	26 deg/C
EUT	Broadband Router	**Humidity**	63 %RH
Working Cond.	WLAN (Channel 1)	**Display Pattern**	N/A
Antenna distance	3m at **Horizontal**	**Frequency Range**	30-1000MHz

No.	Frequency MHz	Reading Level dBµV	Factor dB	Measurement dBµV/m	Limit dBµV/m	Over Limit dB	Detector
1	132.8200	50.40	-16.59	33.81	43.50	-9.69	QP
2	★155.1300	54.79	-17.38	37.41	43.50	-6.09	QP
3	249.2200	51.20	-14.86	36.34	46.00	-9.66	QP
4	323.9100	41.20	-12.68	28.52	46.00	-17.48	QP
5	431.5800	44.80	-9.48	35.32	46.00	-10.68	QP
6	540.2200	46.40	-7.27	39.13	46.00	-6.87	QP

Remarks:

1. All Readings below 1GHz are Quasi-Peak.
2. Measurement = Reading + Factor (Could have ±0.01 tolerance due to computer automatically round off calculation).
3. Over Limit (Margin Value)=Measurement level-Limit value.
4. " ★ " means that this data is the worse case measurement level.



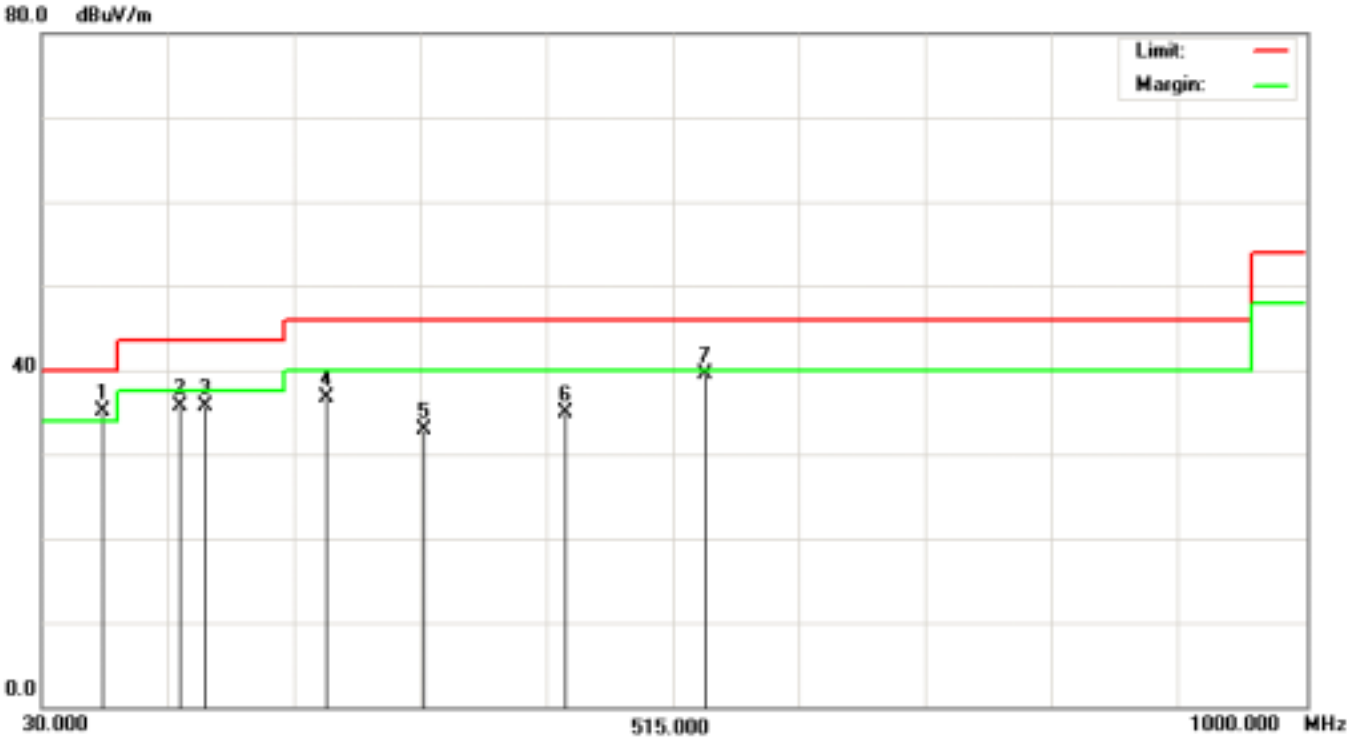
Remark: 1. The "Limit" in right-up corner in above diagram refers to Quasi-peak ; "Margin" refers to the data under 6dB.

Date of Test	February 27, 2007	**Temperature**	26 deg/C
EUT	Broadband Router	**Humidity**	63 %RH
Working Cond.	WLAN (Channel 1)	**Display Pattern**	N/A
Antenna distance	3m at **Vertical**	**Frequency Range**	30-1000MHz

No.	Frequency MHz	Reading Level dBµV	Factor dB	Measurement dBµV/m	Limit dBµV/m	Over Limit dB	Detector
1	★77.5300	56.80	-21.74	35.06	40.00	-4.94	QP
2	136.7000	52.40	-16.61	35.79	43.50	-7.71	QP
3	156.1000	53.20	-17.42	35.78	43.50	-7.72	QP
4	249.2200	51.60	-14.86	36.74	46.00	-9.26	QP
5	323.9100	45.60	-12.68	32.92	46.00	-13.08	QP
6	432.5500	44.40	-9.47	34.93	46.00	-11.07	QP
7	540.2200	46.80	-7.27	39.53	46.00	-6.47	QP

Remarks:

1. All Readings below 1GHz are Quasi-Peak.
2. Measurement = Reading + Factor (Could have ±0.01 tolerance due to computer automatically round off calculation).
3. Over Limit (Margin Value)=Measurement level-Limit value.
4. " ★ " means that this data is the worse case measurement level.



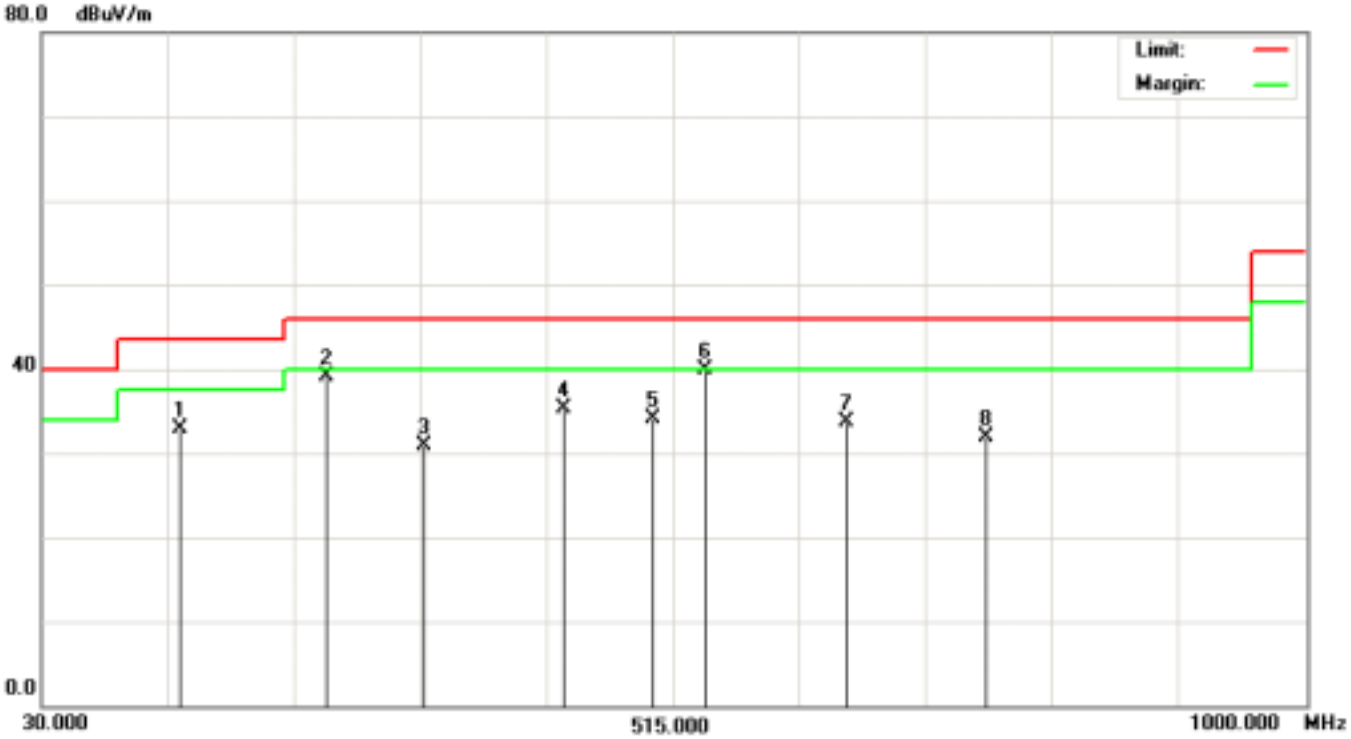
Remark: 1. The "Limit" in right-up corner in above diagram refers to Quasi-peak ; "Margin" refers to the data under 6dB.

Date of Test	February 27, 2007	**Temperature**	26 deg/C
EUT	Broadband Router	**Humidity**	63 %RH
Working Cond.	WLAN (Channel 6)	**Display Pattern**	N/A
Antenna distance	3m at **Horizontal**	**Frequency Range**	30-1000MHz

No.	Frequency MHz	Reading Level dBµV	Factor dB	Measurement dBµV/m	Limit dBµV/m	Over Limit dB	Detector
1	136.7000	49.60	-16.61	32.99	43.50	-10.51	QP
2	249.2200	54.00	-14.86	39.14	46.00	-6.86	QP
3	323.9100	43.60	-12.68	30.92	46.00	-15.08	QP
4	431.5800	44.80	-9.48	35.32	46.00	-10.68	QP
5	500.4500	42.40	-8.21	34.19	46.00	-11.81	QP
6	★540.2200	47.20	-7.27	39.93	46.00	-6.07	QP
7	648.8600	39.60	-5.86	33.74	46.00	-12.26	QP
8	755.5600	36.40	-4.43	31.97	46.00	-14.03	QP

Remarks:

1. All Readings below 1GHz are Quasi-Peak.
2. Measurement = Reading + Factor (Could have ±0.01 tolerance due to computer automatically round off calculation).
3. Over Limit (Margin Value)=Measurement level-Limit value.
4. " ★ " means that this data is the worse case measurement level.



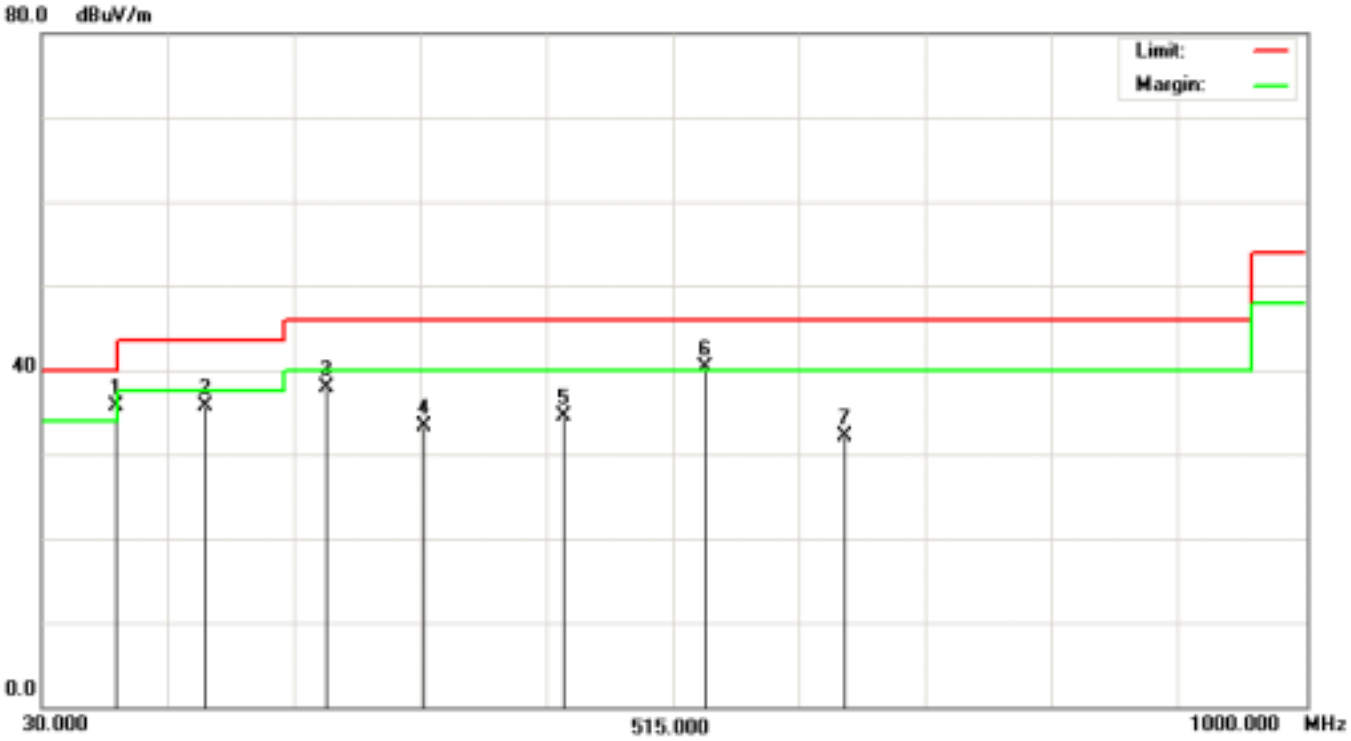
Remark: 1. The "Limit" in right-up corner in above diagram refers to Quasi-peak ; "Margin" refers to the data under 6dB.

Date of Test	February 27, 2007	**Temperature**	26 deg/C
EUT	Broadband Router	**Humidity**	63 %RH
Working Cond.	WLAN (Channel 6)	**Display Pattern**	N/A
Antenna distance	3m at **Vertical**	**Frequency Range**	30-1000MHz

No.	Frequency MHz	Reading Level dBµV	Factor dB	Measurement dBµV/m	Limit dBµV/m	Over Limit dB	Detector
1	★87.2300	56.00	-20.22	35.78	40.00	-4.22	QP
2	156.1000	53.20	-17.42	35.78	43.50	-7.72	QP
3	249.2200	52.80	-14.86	37.94	46.00	-8.06	QP
4	323.9100	46.00	-12.68	33.32	46.00	-12.68	QP
5	431.5800	44.00	-9.48	34.52	46.00	-11.48	QP
6	540.2200	47.60	-7.27	40.33	46.00	-5.67	QP
7	647.8900	38.00	-5.88	32.12	46.00	-13.88	QP

Remarks:

1. All Readings below 1GHz are Quasi-Peak.
2. Measurement = Reading + Factor (Could have ±0.01 tolerance due to computer automatically round off calculation).
3. Over Limit (Margin Value)=Measurement level-Limit value.
4. " ★ " means that this data is the worse case measurement level.



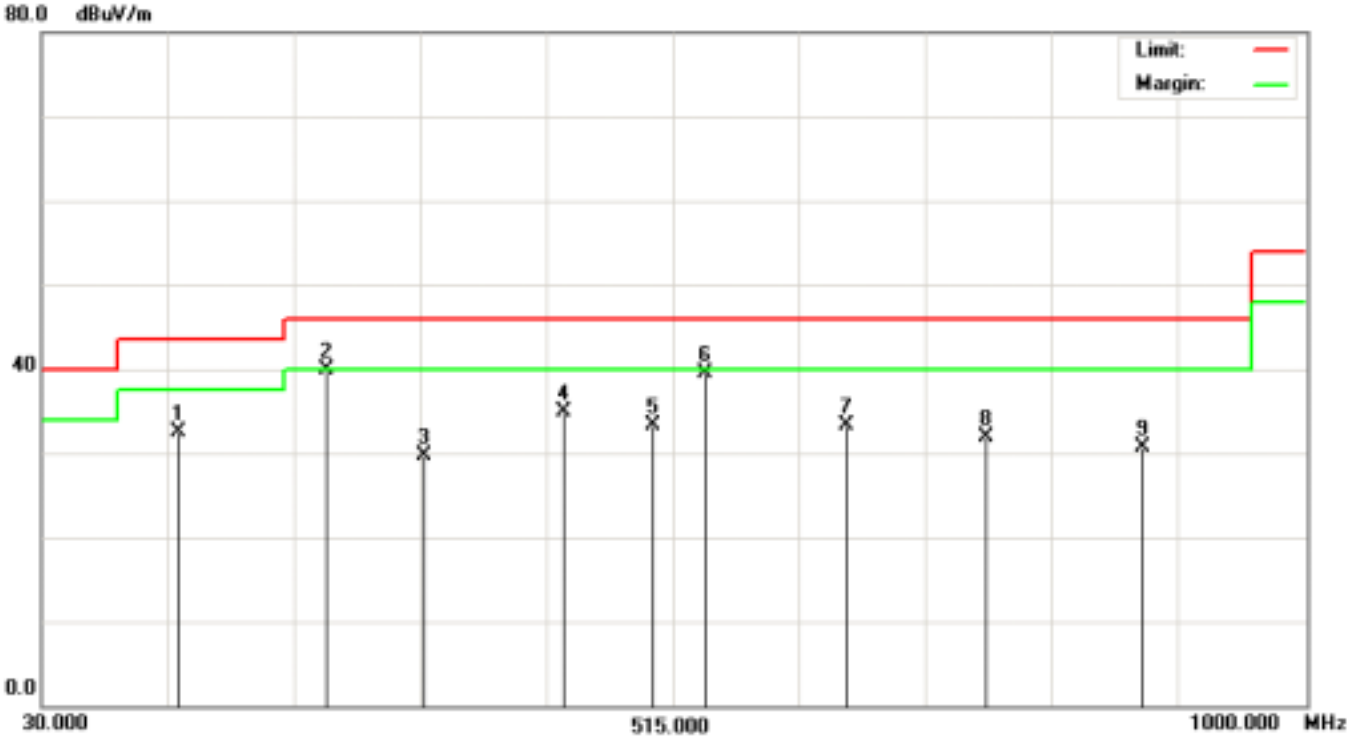
Remark: 1. The "Limit" in right-up corner in above diagram refers to Quasi-peak ; "Margin" refers to the data under 6dB.

Date of Test	February 27, 2007	**Temperature**	26 deg/C
EUT	Broadband Router	**Humidity**	63 %RH
Working Cond.	WLAN (Channel 11)	**Display Pattern**	N/A
Antenna distance	3m at **Horizontal**	**Frequency Range**	30-1000MHz

No.	Frequency MHz	Reading Level dBµV	Factor dB	Measurement dBµV/m	Limit dBµV/m	Over Limit dB	Detector
1	135.7300	49.20	-16.61	32.59	43.50	-10.91	QP
2	★249.2200	54.80	-14.86	39.94	46.00	-6.06	QP
3	323.9100	42.40	-12.68	29.72	46.00	-16.28	QP
4	431.5800	44.40	-9.48	34.92	46.00	-11.08	QP
5	500.4500	41.60	-8.21	33.39	46.00	-12.61	QP
6	540.2200	46.80	-7.27	39.53	46.00	-6.47	QP
7	648.8600	39.20	-5.86	33.34	46.00	-12.66	QP
8	756.5300	36.40	-4.42	31.98	46.00	-14.02	QP
9	875.8400	33.20	-2.57	30.63	46.00	-15.37	QP

Remarks:

1. All Readings below 1GHz are Quasi-Peak.
2. Measurement = Reading + Factor (Could have ±0.01 tolerance due to computer automatically round off calculation).
3. Over Limit (Margin Value)=Measurement level-Limit value.
4. " ★ " means that this data is the worse case measurement level.



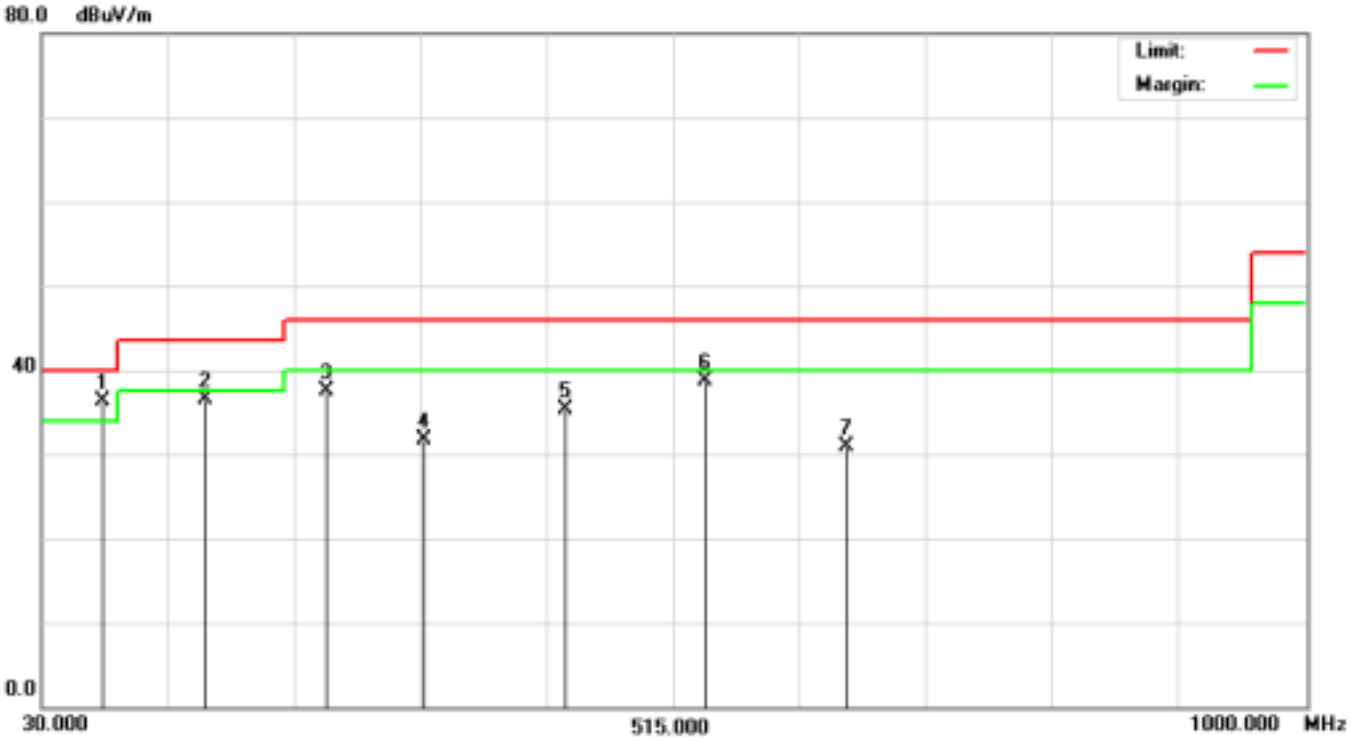
Remark: 1. The "Limit" in right-up corner in above diagram refers to Quasi-peak ; "Margin" refers to the data under 6dB.

Date of Test	February 27, 2007	**Temperature**	26 deg/C
EUT	Broadband Router	**Humidity**	63 %RH
Working Cond.	WLAN (Channel 11)	**Display Pattern**	N/A
Antenna distance	3m at **Vertical**	**Frequency Range**	30-1000MHz

No.	Frequency MHz	Reading Level dBµV	Factor dB	Measurement dBµV/m	Limit dBµV/m	Over Limit dB	Detector
1	★77.5300	58.00	-21.74	36.26	40.00	-3.74	QP
2	156.1000	54.00	-17.42	36.58	43.50	-6.92	QP
3	249.2200	52.40	-14.86	37.54	46.00	-8.46	QP
4	323.9100	44.40	-12.68	31.72	46.00	-14.28	QP
5	432.5500	44.80	-9.47	35.33	46.00	-10.67	QP
6	540.2200	46.00	-7.27	38.73	46.00	-7.27	QP
7	648.8600	36.80	-5.86	30.94	46.00	-15.06	QP

Remarks:

1. All Readings below 1GHz are Quasi-Peak.
2. Measurement = Reading + Factor (Could have ±0.01 tolerance due to computer automatically round off calculation).
3. Over Limit (Margin Value)=Measurement level-Limit value.
4. " ★ " means that this data is the worse case measurement level.



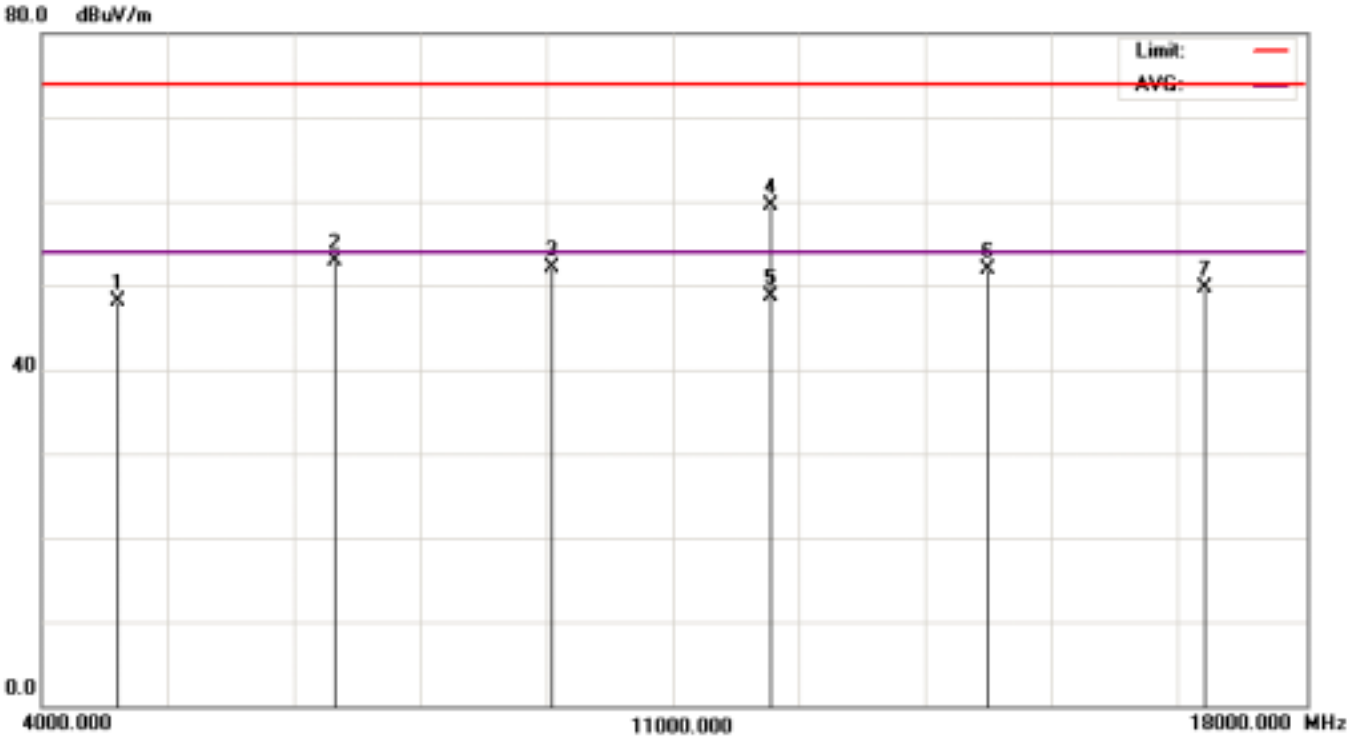
Remark: 1. The "Limit" in right-up corner in above diagram refers to Quasi-peak ; "Margin" refers to the data under 6dB.

Date of Test	February 15, 2007	**Temperature**	24 deg/C
EUT	Broadband Router	**Humidity**	58 %RH
Working Cond.	Mode 1 (802.11b) Channel 1	**Data Rate**	11Mbps
Antenna distance	3m at **Horizontal**	**Frequency Range**	Above 1GHz

No.	Frequency MHz	Reading Level dBµV	Factor dB	Measurement dBµV/m	Limit dBµV/m	Over Limit dB	Detector
1	4823.8000	46.58	1.45	48.03	74.00	-25.97	peak
2	7235.8000	43.59	9.34	52.93	74.00	-21.07	peak
3	9648.0000	45.39	6.70	52.09	74.00	-21.91	peak
4	12059.3000	45.37	14.08	59.45	74.00	-14.55	peak
5	12061.0000	34.67	14.05	48.72	54.00	-5.28	AVG
6	14473.0000	43.23	8.76	<51.99	74.00	-22.01	peak
7	16885.0000	43.79	5.88	<49.67	74.00	-24.33	peak

Remark

1. All Readings below 1GHz are Quasi-Peak and above 1GHz are peak or average.
2. Spectrum Analizyer Setting(Peak Detector): RBW=1MHz, VBW=1MHZ, Span=100MHz.
3. Spectrum Analizyer Setting(AVG Detector): RBW=1MHz, VBW=30HZ, Span=20MHz.
4. Measurement = Reading + Factor (Could have ±0.01 tolerance due to computer automatically round off calculation).
5. Correction Factor= Antenna Factor + Cable Loss – Amplifier Factor
6. Margin Value=Emission level-Limit value.
7. The average measurement was not performed when the peak measured data under the limit of average detection. If the average value is measured, peak measurement should also be supplied.



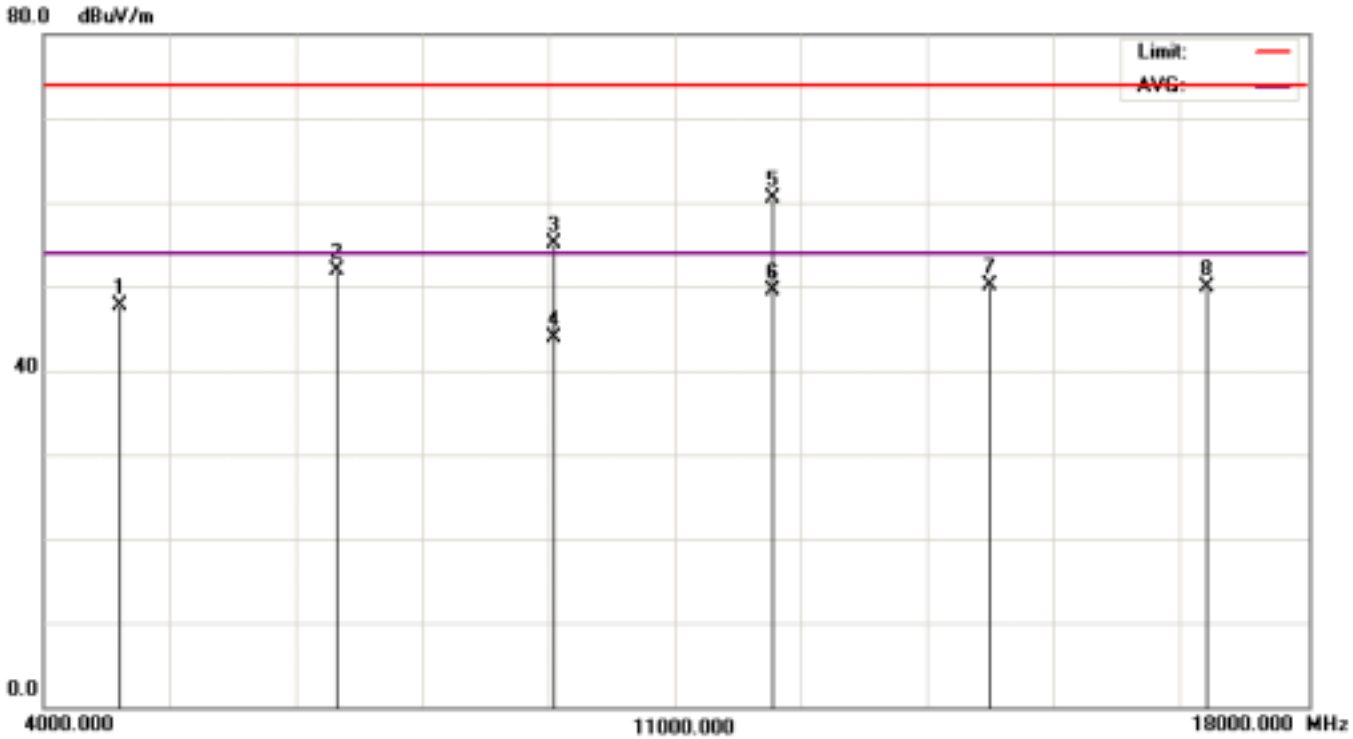
Remark: 1. The “Limit” in right-up corner in above diagram refers to peak ; “AVG” refers to the limit of Average.

Date of Test	February 15, 2007	**Temperature**	24 deg/C
EUT	Broadband Router	**Humidity**	58 %RH
Working Cond.	Mode 1 (802.11b) Channel 1	**Data Rate**	11Mbps
Antenna distance	3m at **Vertical**	**Frequency Range**	Above 1GHz

No.	Frequency MHz	Reading Level dBµV	Factor dB	Measurement dBµV/m	Limit dBµV/m	Over Limit dB	Detector
1	4824.0000	46.03	1.61	47.64	74.00	-26.36	peak
2	7236.5000	43.20	8.71	51.91	74.00	-22.09	peak
3	9647.5000	45.08	10.05	55.13	74.00	-18.87	peak
4	9648.0000	33.92	10.05	43.97	54.00	-10.03	AVG
5	12060.5000	43.94	16.51	60.45	74.00	-13.55	peak
6	12061.3000	32.97	16.50	49.47	54.00	-4.53	AVG
7	14473.3000	42.99	7.15	<50.14	74.00	-23.86	peak
8	16885.3000	44.07	5.79	<49.86	74.00	-24.14	peak

Remark

1. All Readings below 1GHz are Quasi-Peak and above 1GHz are peak or average.
2. Spectrum Analizyer Setting(Peak Detector): RBW=1MHz, VBW=1MHZ, Span=100MHz.
3. Spectrum Analizyer Setting(AVG Detector): RBW=1MHz, VBW=30HZ, Span=20MHz.
4. Measurement = Reading + Factor (Could have ±0.01 tolerance due to computer automatically round off calculation).
5. Correction Factor= Antenna Factor + Cable Loss – Amplifier Factor
6. Margin Value=Emission level-Limit value.
7. The average measurement was not performed when the peak measured data under the limit of average detection. If the average value is measured, peak measurement should also be supplied.



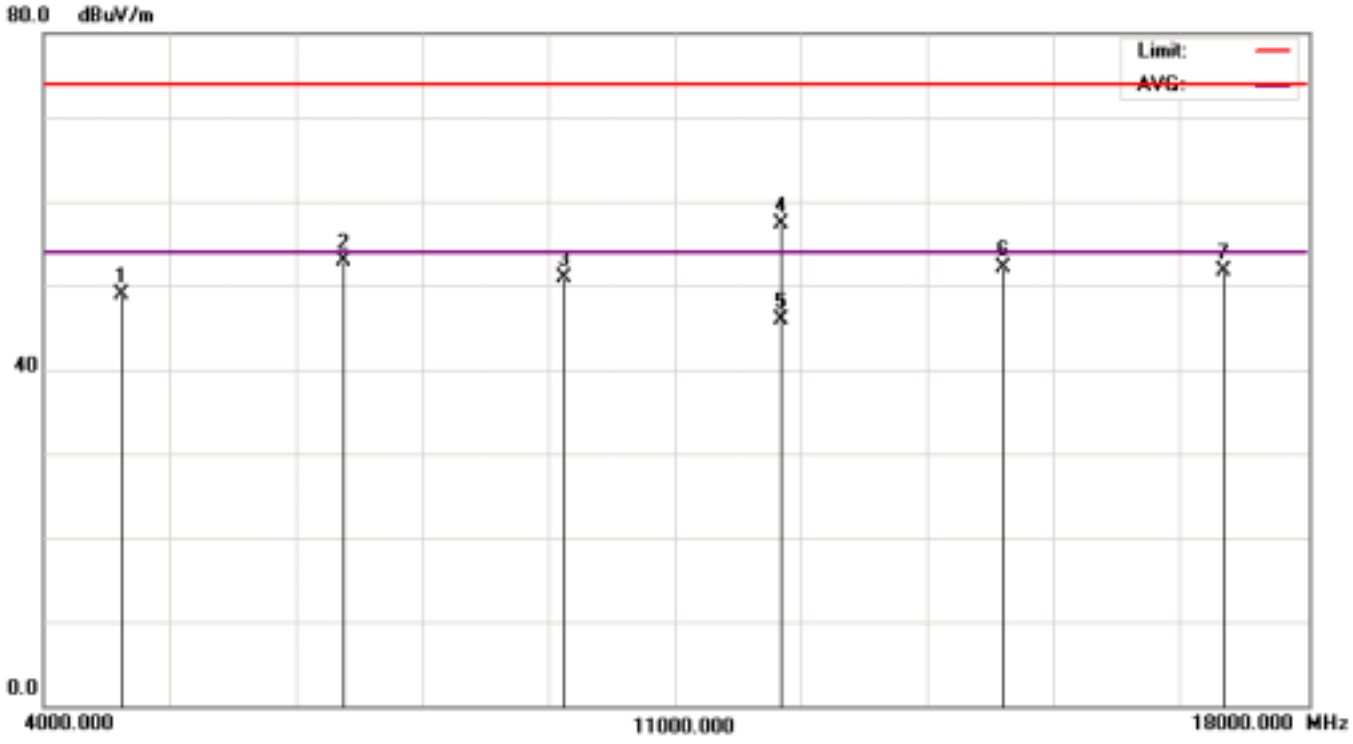
Remark: 1. The “Limit” in right-up corner in above diagram refers to peak ; “AVG” refers to the limit of Average.

Date of Test	February 15, 2007	**Temperature**	24 deg/C
EUT	Broadband Router	**Humidity**	58 %RH
Working Cond.	Mode 1 (802.11b) Channel 6	**Data Rate**	11Mbps
Antenna distance	3m at **Horizontal**	**Frequency Range**	Above 1GHz

No.	Frequency MHz	Reading Level dBµV	Factor dB	Measurement dBµV/m	Limit dBµV/m	Over Limit dB	Detector
1	4873.8000	47.54	1.42	48.96	74.00	-25.04	peak
2	7310.8000	43.62	9.29	52.91	74.00	-21.09	peak
3	9748.0000	43.87	7.01	50.88	74.00	-23.12	peak
4	12184.8000	45.67	11.71	57.38	74.00	-16.62	peak
5	12185.8000	34.16	11.69	45.85	54.00	-8.15	AVG
6	14622.8000	43.13	8.99	<52.12	74.00	-21.88	peak
7	17059.8000	44.53	7.12	<51.65	74.00	-22.35	peak

Remark

1. All Readings below 1GHz are Quasi-Peak and above 1GHz are peak or average.
2. Spectrum Analizyer Setting(Peak Detector): RBW=1MHz, VBW=1MHZ, Span=100MHz.
3. Spectrum Analizyer Setting(AVG Detector): RBW=1MHz, VBW=30HZ, Span=20MHz.
4. Measurement = Reading + Factor (Could have ±0.01 tolerance due to computer automatically round off calculation).
5. Correction Factor= Antenna Factor + Cable Loss – Amplifier Factor
6. Margin Value=Emission level-Limit value.
7. The average measurement was not performed when the peak measured data under the limit of average detection. If the average value is measured, peak measurement should also be supplied.



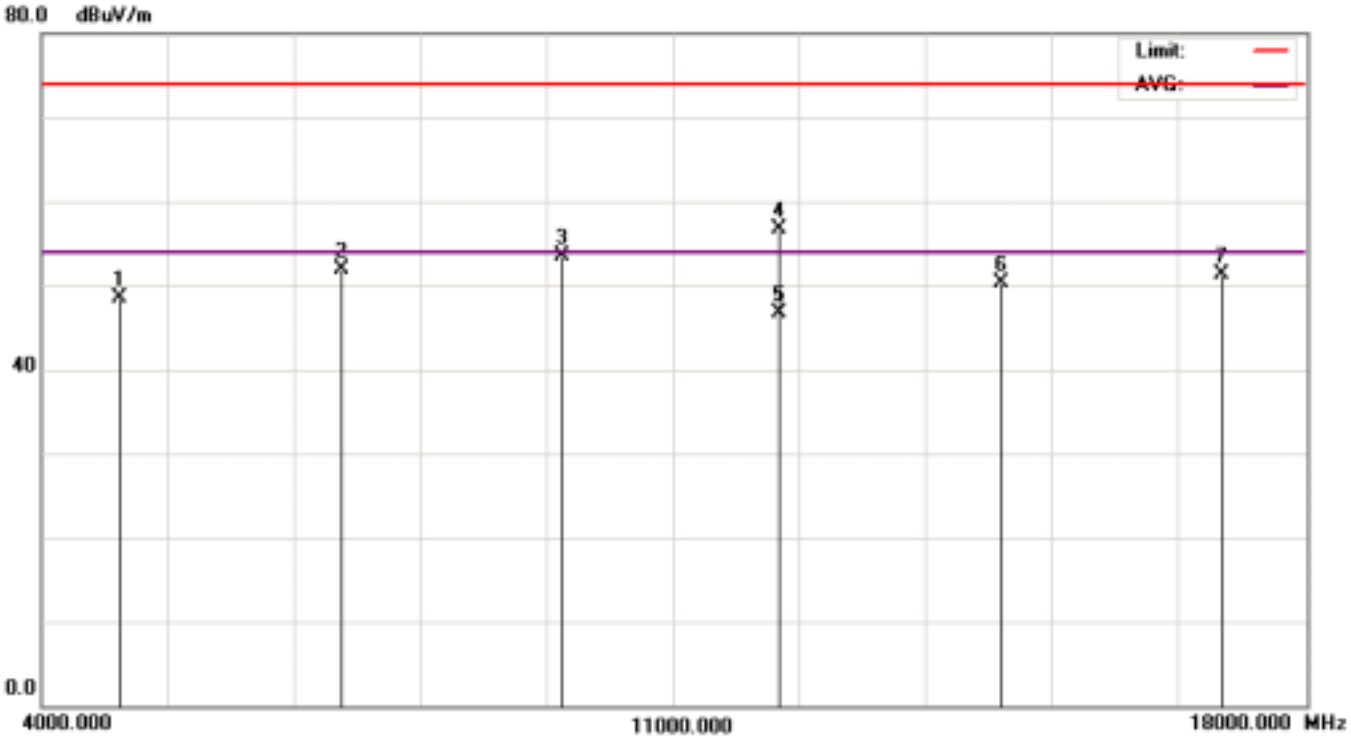
Remark: 1. The “Limit” in right-up corner in above diagram refers to peak ; “AVG” refers to the limit of Average.

Date of Test	February 15, 2007	**Temperature**	24 deg/C
EUT	Broadband Router	**Humidity**	58 %RH
Working Cond.	Mode 1 (802.11b) Channel 6	**Data Rate**	11Mbps
Antenna distance	3m at **Vertical**	**Frequency Range**	Above 1GHz

No.	Frequency MHz	Reading Level dBµV	Factor dB	Measurement dBµV/m	Limit dBµV/m	Over Limit dB	Detector
1	4874.0000	46.47	2.00	48.47	74.00	-25.53	peak
2	7311.0000	43.41	8.58	51.99	74.00	-22.01	peak
3	9748.0000	43.68	9.81	53.49	74.00	-20.51	peak
4	12185.3000	42.64	14.15	56.79	74.00	-17.21	peak
5	12185.8000	32.53	14.14	46.67	54.00	-7.33	AVG
6	14622.8000	42.97	7.25	<50.22	74.00	-23.78	peak
7	17059.8000	44.25	6.97	<51.22	74.00	-22.78	peak

Remark

1. All Readings below 1GHz are Quasi-Peak and above 1GHz are peak or average.
2. Spectrum Analizyer Setting(Peak Detector): RBW=1MHz, VBW=1MHZ, Span=100MHz.
3. Spectrum Analizyer Setting(AVG Detector): RBW=1MHz, VBW=30HZ, Span=20MHz.
4. Measurement = Reading + Factor (Could have ±0.01 tolerance due to computer automatically round off calculation).
5. Correction Factor= Antenna Factor + Cable Loss – Amplifier Factor
6. Margin Value=Emission level-Limit value.
7. The average measurement was not performed when the peak measured data under the limit of average detection. If the average value is measured, peak measurement should also be supplied.



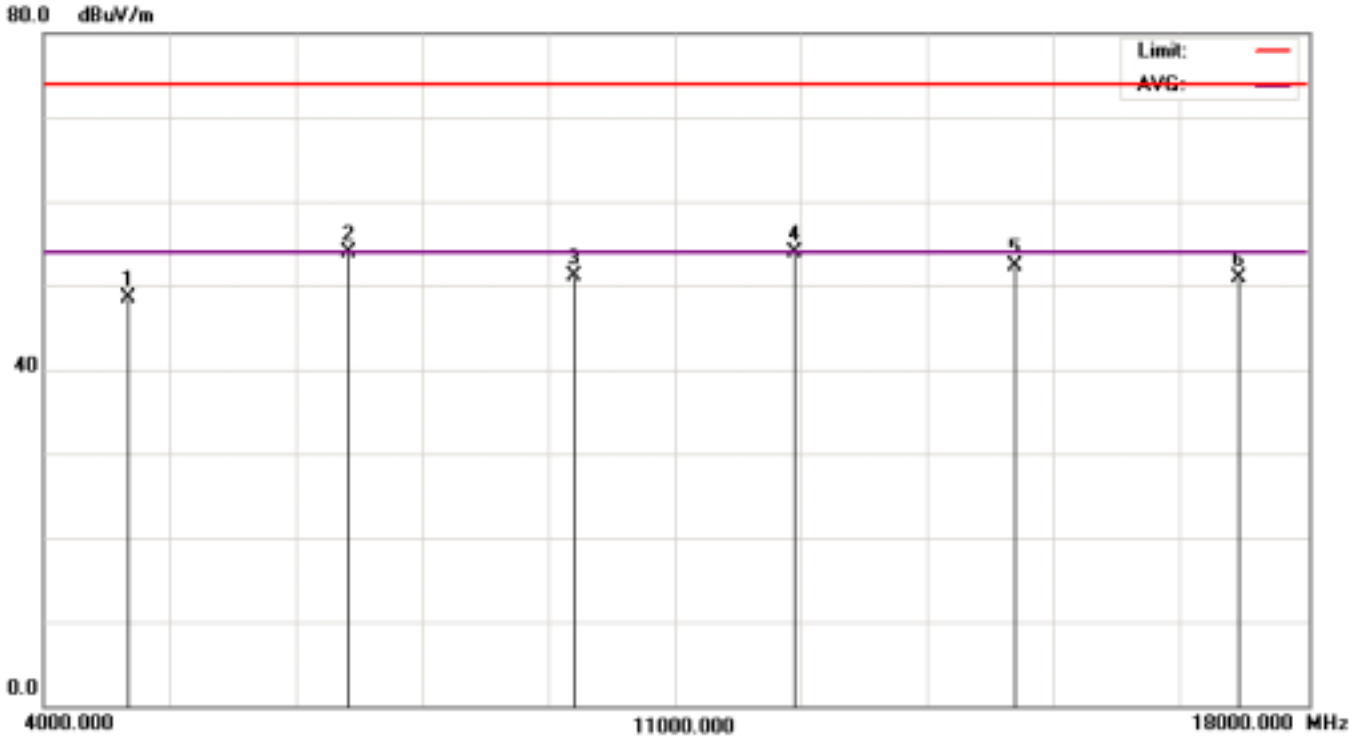
Remark: 1. The “Limit” in right-up corner in above diagram refers to peak ; “AVG” refers to the limit of Average.

Date of Test	February 15, 2007	**Temperature**	24 deg/C
EUT	Broadband Router	**Humidity**	58 %RH
Working Cond.	Mode 1 (802.11b) Channel 11	**Data Rate**	11Mbps
Antenna distance	3m at **Horizontal**	**Frequency Range**	Above 1GHz

No.	Frequency MHz	Reading Level dBµV	Factor dB	Measurement dBµV/m	Limit dBµV/m	Over Limit dB	Detector
1	4924.0000	47.14	1.38	48.52	74.00	-25.48	peak
2	7391.8000	44.94	8.98	53.92	74.00	-20.08	peak
3	9848.3000	45.44	5.68	51.12	74.00	-22.88	peak
4	12305.8000	44.56	9.26	53.82	74.00	-20.18	peak
5	14772.8000	43.09	9.19	<52.28	74.00	-21.72	peak
6	17235.3000	43.33	7.54	<50.87	74.00	-23.13	peak

Remark

1. All Readings below 1GHz are Quasi-Peak and above 1GHz are peak or average.
2. Spectrum Analizyer Setting(Peak Detector): RBW=1MHz, VBW=1MHZ, Span=100MHz.
3. Spectrum Analizyer Setting(AVG Detector): RBW=1MHz, VBW=30HZ, Span=20MHz.
4. Measurement = Reading + Factor (Could have ±0.01 tolerance due to computer automatically round off calculation).
5. Correction Factor= Antenna Factor + Cable Loss – Amplifier Factor
6. Margin Value=Emission level-Limit value.
7. The average measurement was not performed when the peak measured data under the limit of average detection. If the average value is measured, peak measurement should also be supplied.



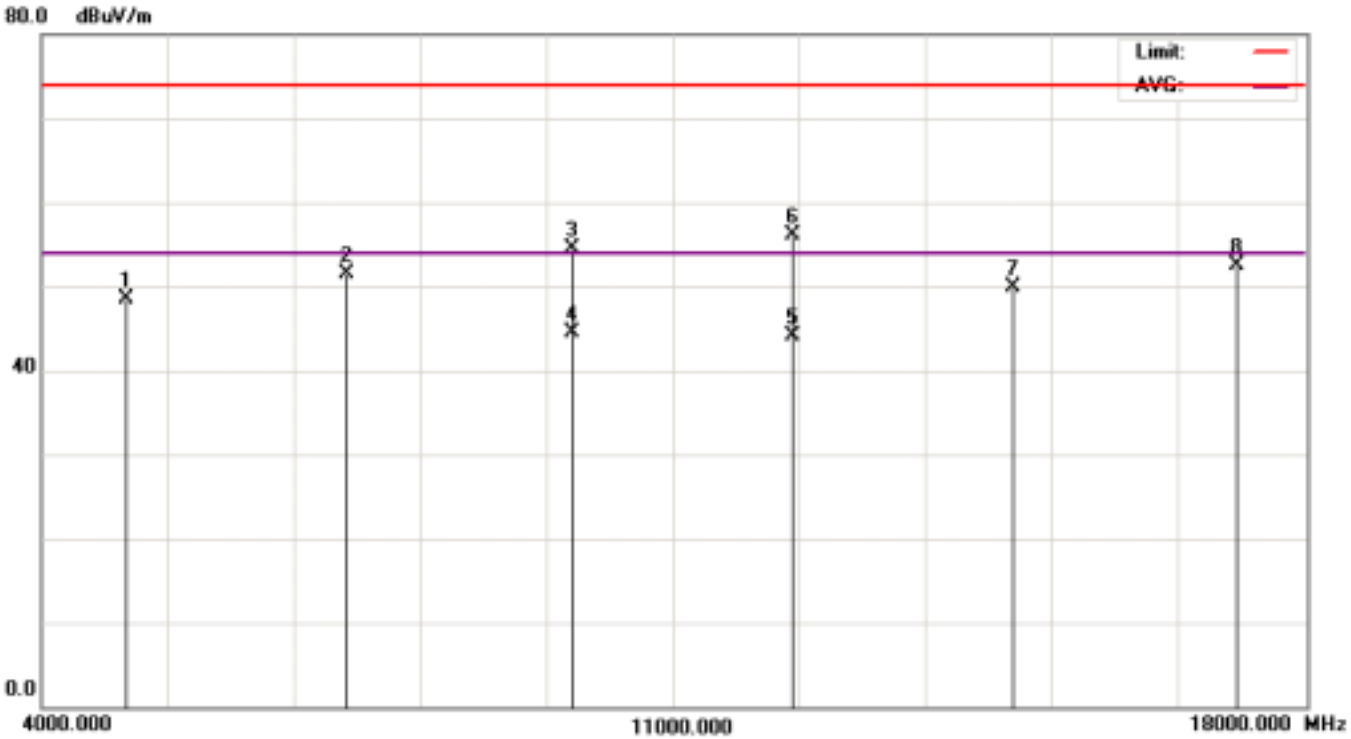
Remark: 1. The “Limit” in right-up corner in above diagram refers to peak ; “AVG” refers to the limit of Average.

Date of Test	February 15, 2007	**Temperature**	24 deg/C
EUT	Broadband Router	**Humidity**	58 %RH
Working Cond.	Mode 1 (802.11b) Channel 11	**Data Rate**	11Mbps
Antenna distance	3m at **Vertical**	**Frequency Range**	Above 1GHz

No.	Frequency MHz	Reading Level dBµV	Factor dB	Measurement dBµV/m	Limit dBµV/m	Over Limit dB	Detector
1	4924.0000	46.22	2.38	48.60	74.00	-25.40	peak
2	7386.0000	43.08	8.46	51.54	74.00	-22.46	peak
3	9847.8000	44.69	9.78	54.47	74.00	-19.53	peak
4	9847.8000	34.77	9.78	44.55	54.00	-9.45	AVG
5	12310.5000	32.30	11.71	44.01	54.00	-9.99	AVG
6	12311.0000	44.36	11.70	56.06	74.00	-17.94	peak
7	14772.5000	42.48	7.45	<49.93	74.00	-24.07	peak
8	17234.5000	43.13	9.29	<52.42	74.00	-21.58	peak

Remark

1. All Readings below 1GHz are Quasi-Peak and above 1GHz are peak or average.
2. Spectrum Analizyer Setting(Peak Detector): RBW=1MHz, VBW=1MHZ, Span=100MHz.
3. Spectrum Analizyer Setting(AVG Detector): RBW=1MHz, VBW=30HZ, Span=20MHz.
4. Measurement = Reading + Factor (Could have ±0.01 tolerance due to computer automatically round off calculation).
5. Correction Factor= Antenna Factor + Cable Loss – Amplifier Factor
6. Margin Value=Emission level-Limit value.
7. The average measurement was not performed when the peak measured data under the limit of average detection. If the average value is measured, peak measurement should also be supplied.



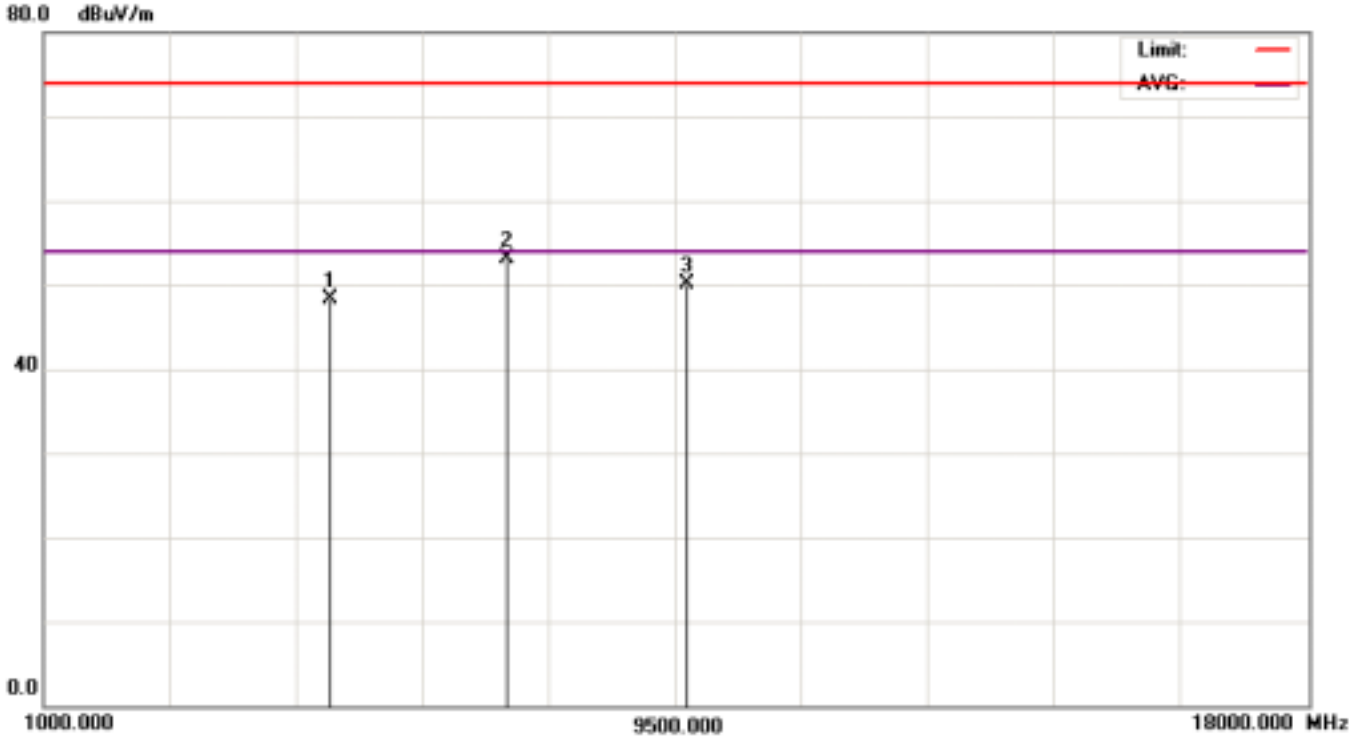
Remark: 1. The “Limit” in right-up corner in above diagram refers to peak ; “AVG” refers to the limit of Average.

Date of Test	February 12, 2007	**Temperature**	24 deg/C
EUT	Broadband Router	**Humidity**	58 %RH
Working Cond.	Mode 2 (802.11g) Channel 1	**Data Rate**	54Mbps
Antenna distance	3m at **Horizontal**	**Frequency Range**	Above 1GHz

No.	Frequency MHz	Reading Level dBµV	Factor dB	Measurement dBµV/m	Limit dBµV/m	Over Limit dB	Detector
1	4827.8000	46.83	1.46	48.29	74.00	-25.71	peak
2	7241.8000	43.61	9.45	<53.06	74.00	-20.94	peak
3	9655.8000	43.38	6.73	<50.11	74.00	-23.89	peak

Remark

1. All Readings below 1GHz are Quasi-Peak and above 1GHz are peak or average.
2. Spectrum Analizyer Setting(Peak Detector): RBW=1MHz, VBW=1MHZ, Span=100MHz.
3. Spectrum Analizyer Setting(AVG Detector): RBW=1MHz, VBW=30HZ, Span=20MHz.
4. Measurement = Reading + Factor (Could have ±0.01 tolerance due to computer automatically round off calculation).
5. Correction Factor= Antenna Factor + Cable Loss – Amplifier Factor
6. Margin Value=Emission level-Limit value.
7. The average measurement was not performed when the peak measured data under the limit of average detection. If the average value is measured, peak measurement should also be supplied.



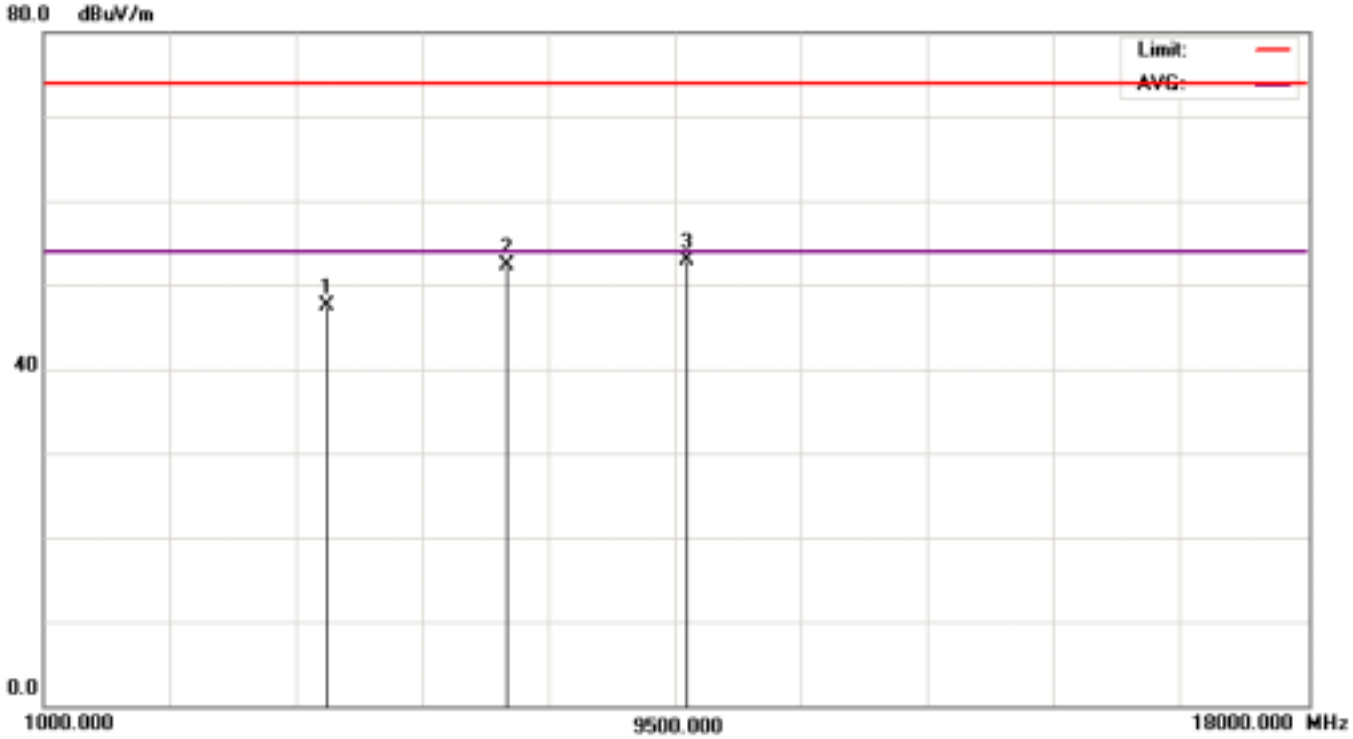
Remark: 1. The “Limit” in right-up corner in above diagram refers to peak ; “AVG” refers to the limit of Average.

Date of Test	February 12, 2007	**Temperature**	24 deg/C
EUT	Broadband Router	**Humidity**	58 %RH
Working Cond.	Mode 2 (802.11g) Channel 1	**Data Rate**	54Mbps
Antenna distance	3m at **Vertical**	**Frequency Range**	Above 1GHz

No.	Frequency MHz	Reading Level dBµV	Factor dB	Measurement dBµV/m	Limit dBµV/m	Over Limit dB	Detector
1	4820.3000	45.96	1.59	47.55	74.00	-26.45	peak
2	7236.0000	43.54	8.71	<52.25	74.00	-21.75	peak
3	9648.0000	42.95	10.05	<53.00	74.00	-21.00	peak

Remark

1. All Readings below 1GHz are Quasi-Peak and above 1GHz are peak or average.
2. Spectrum Analizyer Setting(Peak Detector): RBW=1MHz, VBW=1MHZ, Span=100MHz.
3. Spectrum Analizyer Setting(AVG Detector): RBW=1MHz, VBW=30HZ, Span=20MHz.
4. Measurement = Reading + Factor (Could have ±0.01 tolerance due to computer automatically round off calculation).
5. Correction Factor= Antenna Factor + Cable Loss – Amplifier Factor
6. Margin Value=Emission level-Limit value.
7. The average measurement was not performed when the peak measured data under the limit of average detection. If the average value is measured, peak measurement should also be supplied.



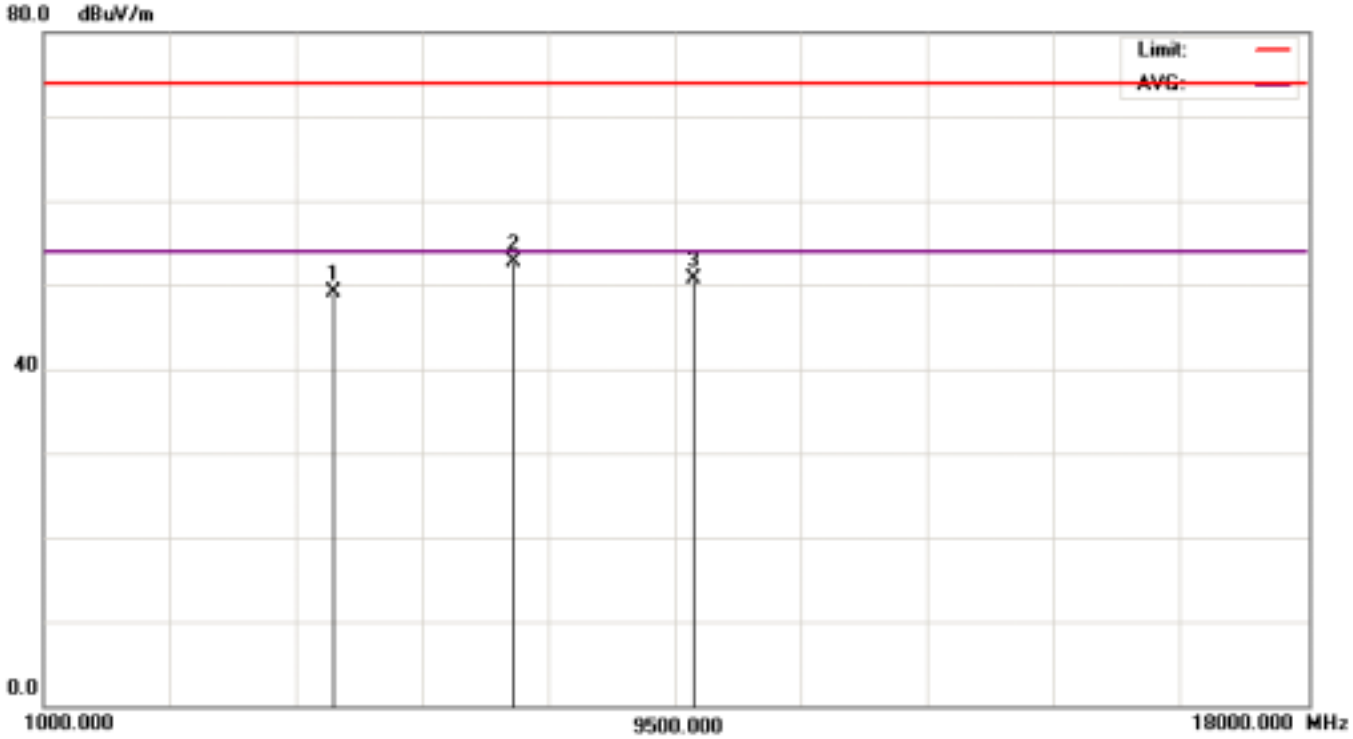
Remark: 1. The “Limit” in right-up corner in above diagram refers to peak ; “AVG” refers to the limit of Average.

Date of Test	February 12, 2007	**Temperature**	24 deg/C
EUT	Broadband Router	**Humidity**	58 %RH
Working Cond.	Mode 2 (802.11g) Channel 6	**Data Rate**	54Mbps
Antenna distance	3m at **Horizontal**	**Frequency Range**	Above 1GHz

No.	Frequency MHz	Reading Level dBµV	Factor dB	Measurement dBµV/m	Limit dBµV/m	Over Limit dB	Detector
1	4873.8000	47.76	1.42	49.18	74.00	-24.82	peak
2	7310.8000	43.31	9.30	<52.61	74.00	-21.39	peak
3	9747.8000	43.58	7.04	<50.62	74.00	-23.38	peak

Remark

1. All Readings below 1GHz are Quasi-Peak and above 1GHz are peak or average.
2. Spectrum Analizyer Setting(Peak Detector): RBW=1MHz, VBW=1MHZ, Span=100MHz.
3. Spectrum Analizyer Setting(AVG Detector): RBW=1MHz, VBW=30HZ, Span=20MHz.
4. Measurement = Reading + Factor (Could have ±0.01 tolerance due to computer automatically round off calculation).
5. Correction Factor= Antenna Factor + Cable Loss – Amplifier Factor
6. Margin Value=Emission level-Limit value.
7. The average measurement was not performed when the peak measured data under the limit of average detection. If the average value is measured, peak measurement should also be supplied.



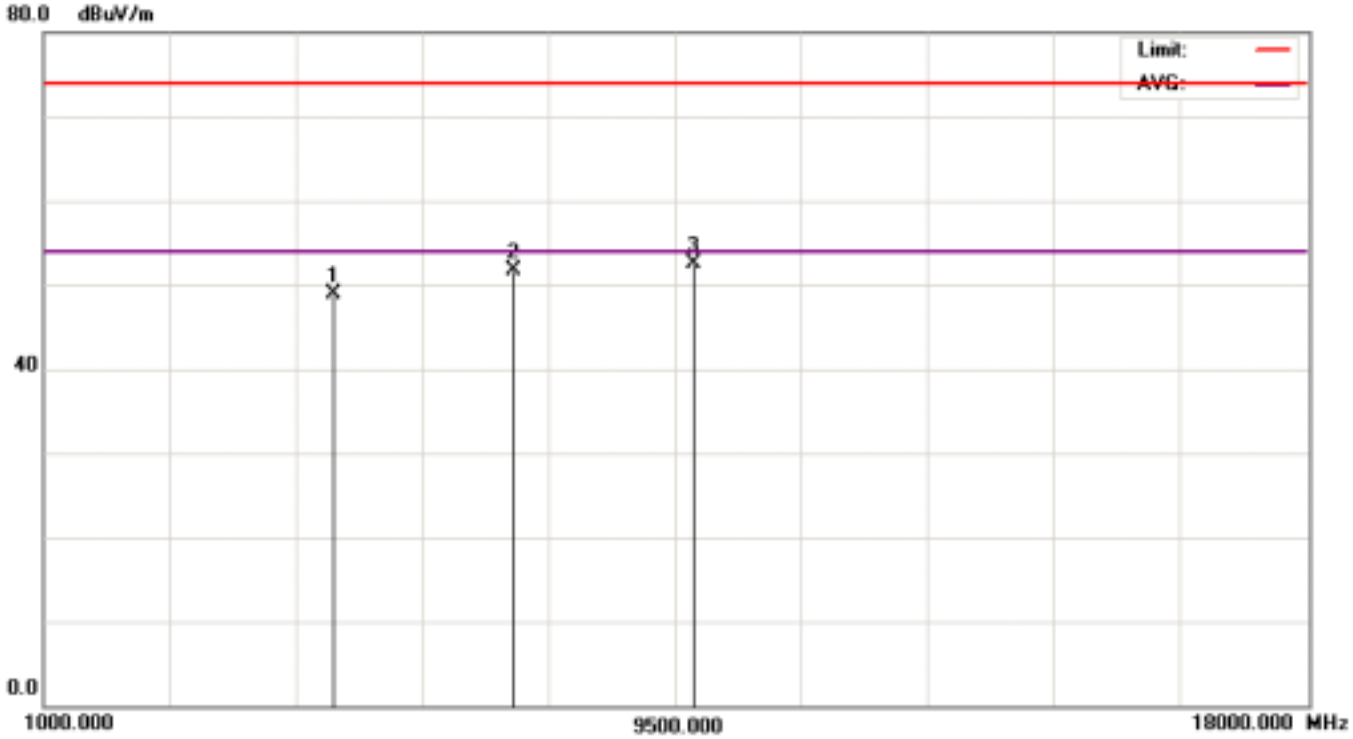
Remark: 1. The “Limit” in right-up corner in above diagram refers to peak ; “AVG” refers to the limit of Average.

Date of Test	February 12, 2007	**Temperature**	24 deg/C
EUT	Broadband Router	**Humidity**	58 %RH
Working Cond.	Mode 2 (802.11g) Channel 6	**Data Rate**	54Mbps
Antenna distance	3m at **Vertical**	**Frequency Range**	Above 1GHz

No.	Frequency MHz	Reading Level dBµV	Factor dB	Measurement dBµV/m	Limit dBµV/m	Over Limit dB	Detector
1	4873.8000	46.87	2.00	48.87	74.00	-25.13	peak
2	7310.8000	43.04	8.58	<51.62	74.00	-22.38	peak
3	9747.8000	42.67	9.80	<52.47	74.00	-21.53	peak

Remark

1. All Readings below 1GHz are Quasi-Peak and above 1GHz are peak or average.
2. Spectrum Analizyer Setting(Peak Detector): RBW=1MHz, VBW=1MHZ, Span=100MHz.
3. Spectrum Analizyer Setting(AVG Detector): RBW=1MHz, VBW=30HZ, Span=20MHz.
4. Measurement = Reading + Factor (Could have ±0.01 tolerance due to computer automatically round off calculation).
5. Correction Factor= Antenna Factor + Cable Loss – Amplifier Factor
6. Margin Value=Emission level-Limit value.
7. The average measurement was not performed when the peak measured data under the limit of average detection. If the average value is measured, peak measurement should also be supplied.



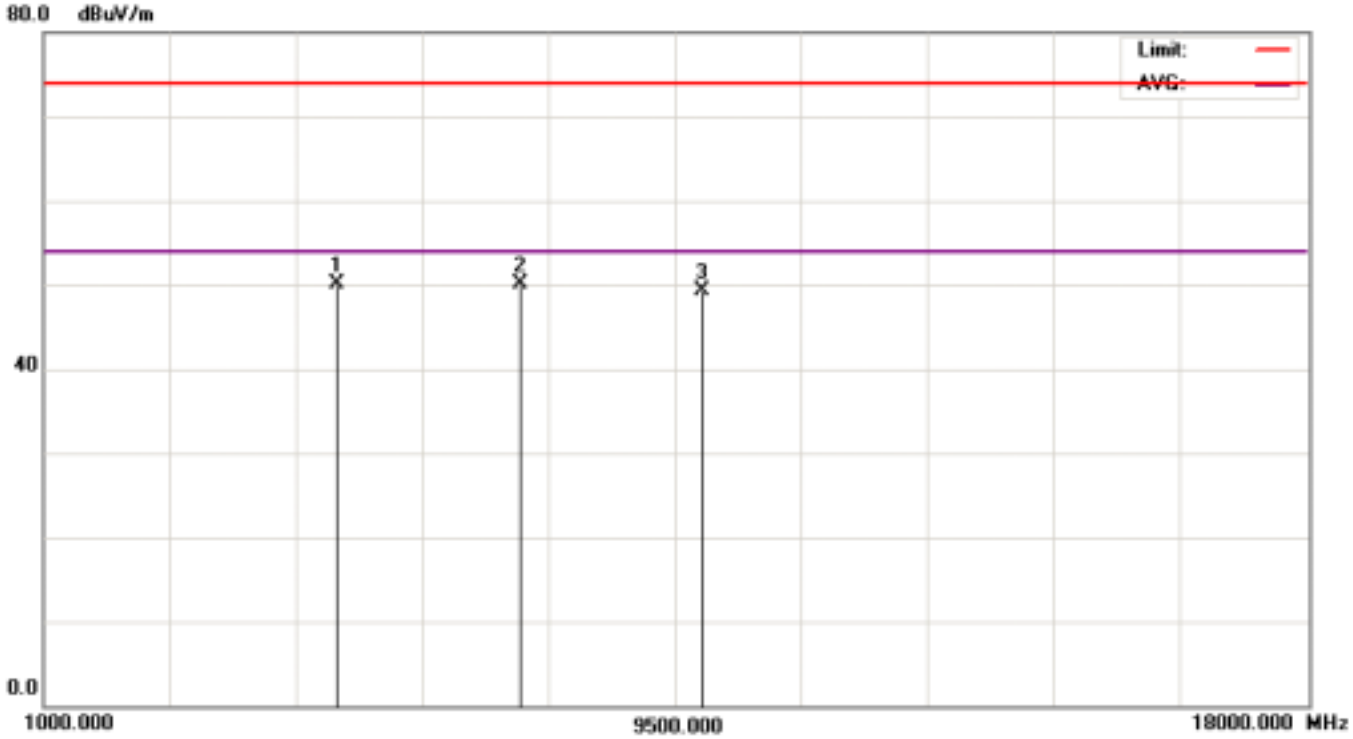
Remark: 1. The “Limit” in right-up corner in above diagram refers to peak ; “AVG” refers to the limit of Average.

Date of Test	February 12, 2007	**Temperature**	24 deg/C
EUT	Broadband Router	**Humidity**	58 %RH
Working Cond.	Mode 2 (802.11g) Channel 11	**Data Rate**	54Mbps
Antenna distance	3m at **Horizontal**	**Frequency Range**	Above 1GHz

No.	Frequency MHz	Reading Level dBµV	Factor dB	Measurement dBµV/m	Limit dBµV/m	Over Limit dB	Detector
1	4924.0000	48.72	1.38	50.10	74.00	-23.90	peak
2	7385.8000	41.11	9.00	<50.11	74.00	-23.89	peak
3	9847.8000	43.69	5.68	<49.37	74.00	-24.63	peak

Remark

1. All Readings below 1GHz are Quasi-Peak and above 1GHz are peak or average.
2. Spectrum Analizyer Setting(Peak Detector): RBW=1MHz, VBW=1MHZ, Span=100MHz.
3. Spectrum Analizyer Setting(AVG Detector): RBW=1MHz, VBW=30HZ, Span=20MHz.
4. Measurement = Reading + Factor (Could have ±0.01 tolerance due to computer automatically round off calculation).
5. Correction Factor= Antenna Factor + Cable Loss – Amplifier Factor
6. Margin Value=Emission level-Limit value.
7. The average measurement was not performed when the peak measured data under the limit of average detection. If the average value is measured, peak measurement should also be supplied.



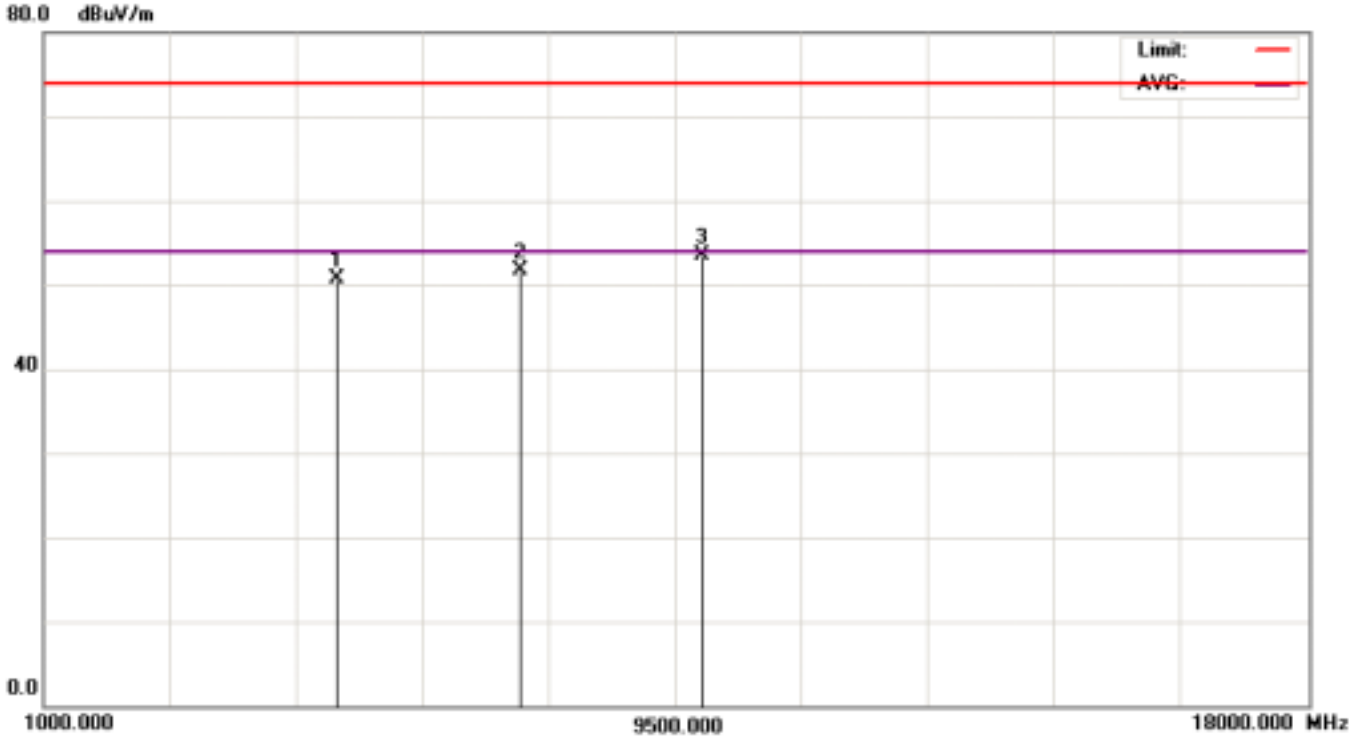
Remark: 1. The “Limit” in right-up corner in above diagram refers to peak ; “AVG” refers to the limit of Average.

Date of Test	February 12, 2007	**Temperature**	24 deg/C
EUT	Broadband Router	**Humidity**	58 %RH
Working Cond.	Mode 2 (802.11g) Channel 11	**Data Rate**	54Mbps
Antenna distance	3m at **Vertical**	**Frequency Range**	Above 1GHz

No.	Frequency MHz	Reading Level dBµV	Factor dB	Measurement dBµV/m	Limit dBµV/m	Over Limit dB	Detector
1	4924.0000	48.40	2.38	50.78	74.00	-23.22	peak
2	7386.0000	43.23	8.46	<51.69	74.00	-22.31	peak
3	9848.0000	43.76	9.78	<53.54	74.00	-20.46	peak

Remark

1. All Readings below 1GHz are Quasi-Peak and above 1GHz are peak or average.
2. Spectrum Analizyer Setting(Peak Detector): RBW=1MHz, VBW=1MHZ, Span=100MHz.
3. Spectrum Analizyer Setting(AVG Detector): RBW=1MHz, VBW=30HZ, Span=20MHz.
4. Measurement = Reading + Factor (Could have ±0.01 tolerance due to computer automatically round off calculation).
5. Correction Factor= Antenna Factor + Cable Loss – Amplifier Factor
6. Margin Value=Emission level-Limit value.
7. The average measurement was not performed when the peak measured data under the limit of average detection. If the average value is measured, peak measurement should also be supplied.



Remark: 1. The “Limit” in right-up corner in above diagram refers to peak ; “AVG” refers to the limit of Average.

5. PEAK POWER OUTPUT

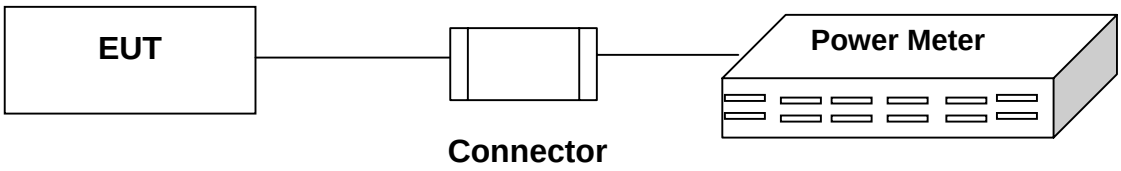
5.1 TEST EQUIPMENT

The following test equipments are used during the Conduct tests:

Item	Instrument	Manufacturer	Model	Serial No.	Last Cal.
1	Spectrum Analyzer	HP	E4407B	US39240339	07/26/06
2	Power Meter	R & S	NRVS	100666	04/07/06
3	Peak Power Sensor	R & S	NRV-Z32	836019-058	04/07/06

Note: All measurement critical items of test instrumentation were within their calibration period of 1 year.

5.2 BLOCK DIAGRAM OF TEST SETUP



5.3 PEAK POWER OUTPUT LIMIT

The maximum peak power shall be less 1 Watt.

5.4 TEST RESULT

Date of Test	February 16, 2007	**Temperature**	25 deg/C
EUT	Broadband Router	**Humidity**	52 %RH
Test Mode	Mode 1 (802.11b)	**Data Rate**	11Mbps

Channel No.	Frequency (MHz)	Measurement (dBm)	Required Limit	Result
1	2412	22.53	1W(30dBm)	Pass
6	2437	22.57	1W(30dBm)	Pass
11	2462	22.49	1W(30dBm)	Pass

Date of Test	February 16, 2007	**Temperature**	25 deg/C
EUT	Broadband Router	**Humidity**	52 %RH
Test Mode	Mode 2 (802.11g)	**Data Rate**	54Mbps

Channel No.	Frequency (MHz)	Measurement (dBm)	Required Limit	Result
1	2412	16.76	1W(30dBm)	Pass
6	2437	16.89	1W(30dBm)	Pass
11	2462	16.89	1W(30dBm)	Pass

6. BAND EDGE

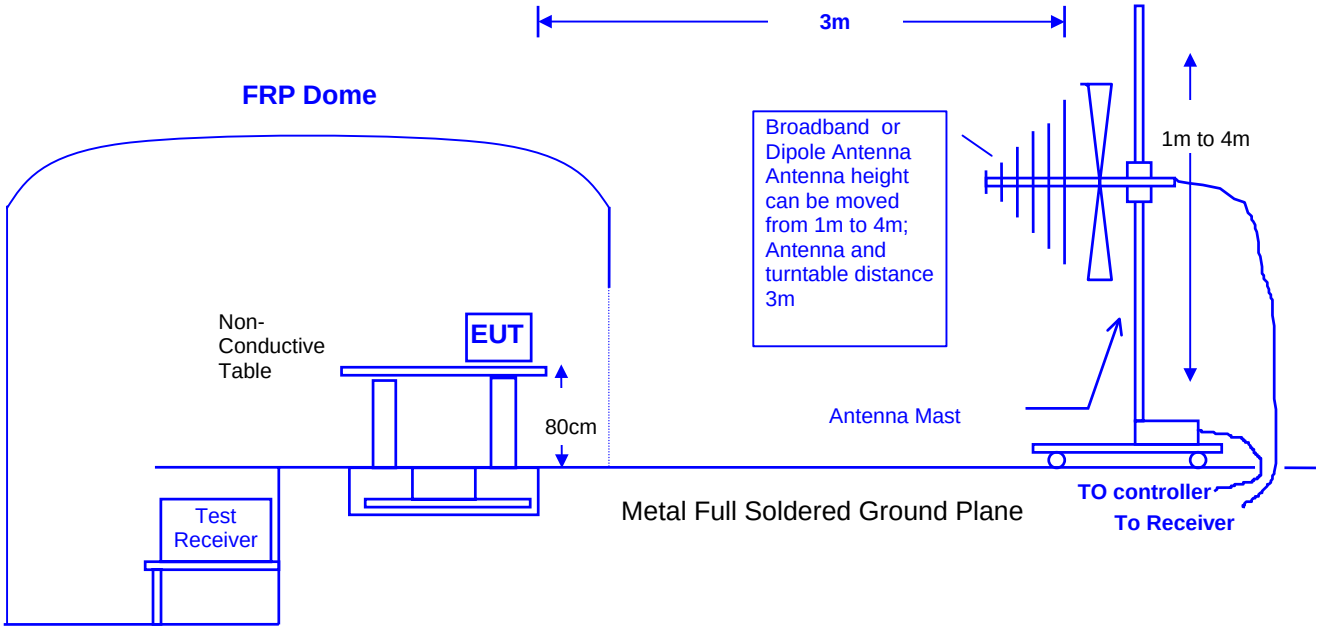
6.1 TEST EQUIPMENT

Item	Instrument	Manufacturer	Model	Serial No.	Last Cal.
1	Test Receiver	R & S	ESVS30	829007/014	01/19/07
2	Spectrum Analyzer	RS	FSP40	100061	04/03/06
3	Spectrum Analyzer	HP	E4407B	US39240339	07/26/06
4	Power Meter	R & S	NRVS	100666	04/07/06
5	Peak Power Sensor	R & S	NRV-Z32	836019-058	04/07/06
6	Pre-Amplifier	HP	8449B	3008A01263	04/06/06
7	BILOG ANTENNA	SCHAFFNER	CBL6112B	2620	11/24/06
8	Horn Antenna	ELECTRO-METRICS	EM-6961	103318	01/25/07
9	Horn Antenna	SCHWARZBECK	BBHA 9120	D243	12/25/06
10	RF Cable	GTK	N/A	GTK-E-A316-01	11/08/06
11	Open Site	GTK	N/A	B1	11/20/06
12	Test Program Software	GesTek	N/A	GTK-E-S001-01	N/A

Note: All measurement critical items of test instrumentation were within their calibration period of 1 year.

6.2 BLOCK DIAGRAM OF TEST SETUP

◎ RF Radiated Measurement: ◎



6.3 BAND EDGE LIMIT

In any 100KHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100KHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209 (a) (see Section 15.205(c)).

6.4 EUT CONFIGURATION

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters. The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.4:2000 on radiated measurement.

The bandwidth below 1GHz setting on the field strength meter is 120KHz, above 1GHz are 1MHz.

6.5 OPERATING CONDITION OF EUT

Same as section 2.7.

6.6 TEST RELULT

Date of Test	March 22, 2007	**Temperature**	25 deg/C
EUT	Broadband Router	**Humidity**	52 %RH
Working Cond.	Mode 1 (802.11b)	**Data Rate**	11Mbps
Antenna distance	3m at **Horizontal**	**Test Band**	Lower

Radiation Emission of Fundamental

Peak

Frequency [MHz]	Reading Level [dB(uV)]	Correction Factor [dB/m]	Emission Level [dB(uV/m)]
2413	78.12	31.34	109.59

Average

Frequency [MHz]	Reading Level [dB(uV)]	Correction Factor [dB/m]	Emission Level [dB(uV/m)]
2411.5	70.84	31.47	102.31

Remark:
1. All Readings below 1GHz are Quasi-Peak and above 1GHz are peak or average.
2. Spectrum Analizyer Setting(Peak Detector): RBW=1MHz, VBW=1MHZ.
3. Spectrum Analizyer Setting(AVG Detector): RBW=1MHz, VBW=10HZ
4. Emission Level= Reading + Correction Factor (Could have ±0.01 tolerance due to computer automatically round off calculation).
5. Correction Factor= Antenna Factor + Cable Loss – Amplifier Factor

TEST Result

The band edge emission plot on next page are Peak and Average. The polt for peak is appear (49.4)dB delta between carry power and maximum emission in restrict band 2388 MHz. The plot for average is appear (56.15)dB delta between carry power and maximum emission in restrict band (2386.8)MHz.

The above tables are list of fundamental emission test result.

Therefore, peak field strength of 2388 MHz is

109.59 dBuV/m – 49.4 dB = 60.19 dBuV/m which is under 74dBuV/m.

Average field strength of 2386.8 MHz is

102.31 dBuV/m – 56.15 dB = 46.16 dBuV/m which is under 54dBuV/m.

Date of Test	March 22, 2007	**Temperature**	25 deg/C
EUT	Broadband Router	**Humidity**	52 %RH
Working Cond.	Mode 1 (802.11b)	**Data Rate**	11Mbps
Antenna distance	3m at **Vertical**	**Test Band**	Lower

Radiation Emission of Fundamental

Peak

Frequency [MHz]	Reading Level [dB(uV)]	Correction Factor [dB/m]	Emission Level [dB(uV/m)]
2413	87.07	24.42	111.49

Average

Frequency [MHz]	Reading Level [dB(uV)]	Correction Factor [dB/m]	Emission Level [dB(uV/m)]
2413.1	81.35	24.42	105.77

Remark:

1. All Readings below 1GHz are Quasi-Peak and above 1GHz are peak or average.
2. Spectrum Analizyer Setting(Peak Detector): RBW=1MHz, VBW=1MHZ.
3. Spectrum Analizyer Setting(AVG Detector): RBW=1MHz, VBW=10HZ
4. Emission Level= Reading + Correction Factor (Could have ±0.01 tolerance due to computer automatically round off calculation).
5. Correction Factor= Antenna Factor + Cable Loss – Amplifier Factor

TEST Result

The band edge emission plot on next page are Peak and Average. The polt for peak is appear (49.4)dB delta between carry power and maximum emission in restrict band 2388 MHz. The plot for average is appear (56.15)dB delta between carry power and maximum emission in restrict band (2386.8)MHz.

The above tables are list of fundamental emission test result.

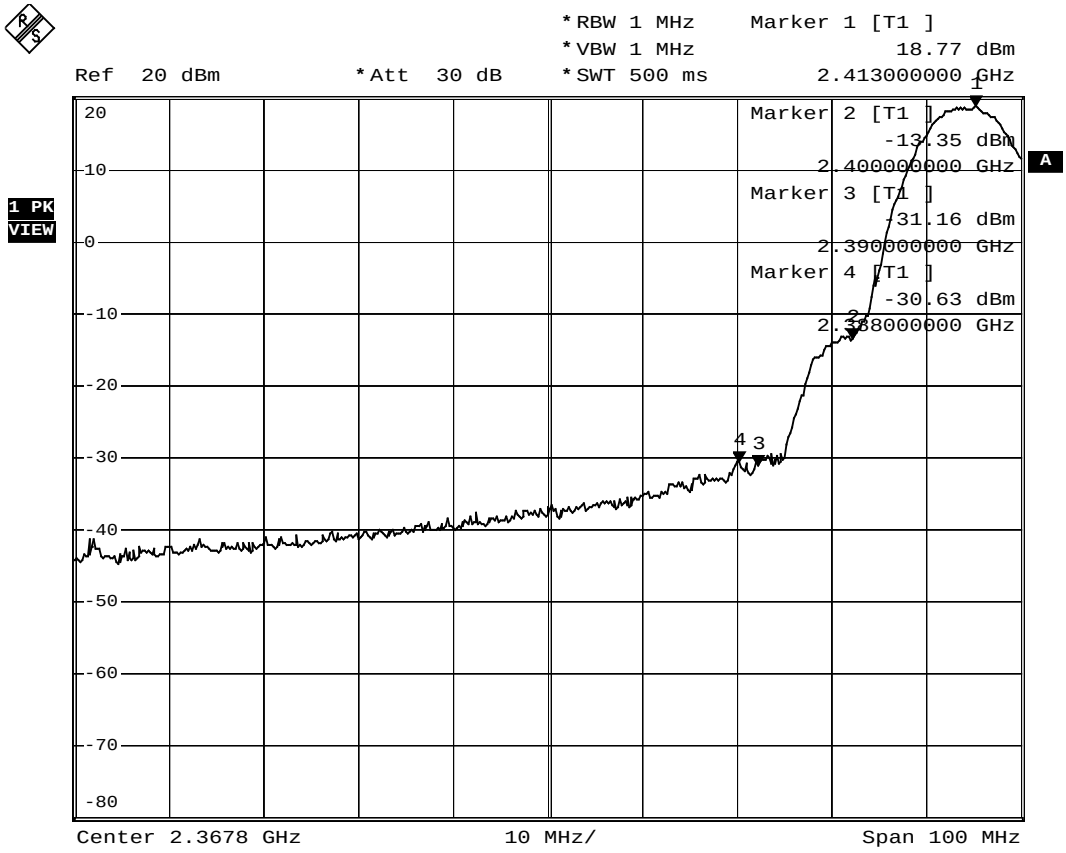
Therefore, peak field strength of 2388 MHz is

111.49 dBuV/m – 49.4 dB = 62.09 dBuV/m which is under 74dBuV/m.

Average field strength of 2386.8 MHz is

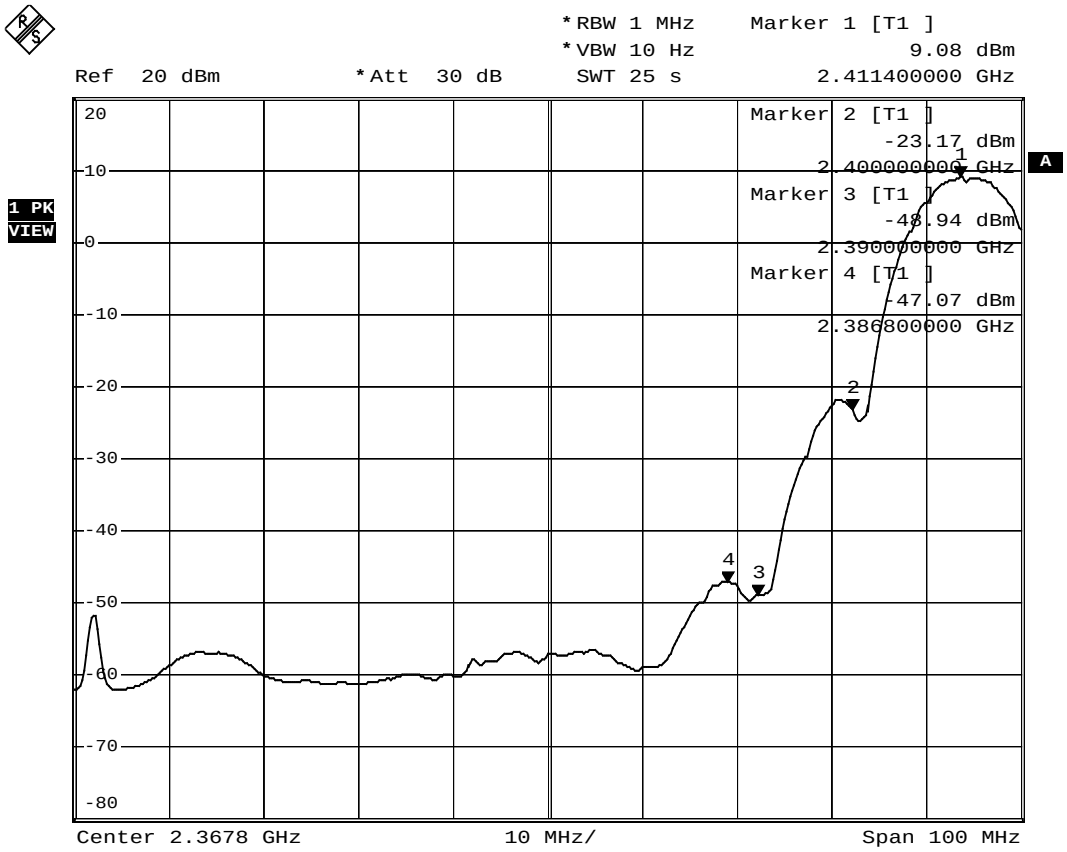
105.77 dBuV/m – 56.15 dB = 49.62 dBuV/m which is under 54dBuV/m.

PEAK



Date: 22.MAR.2007 16:49:34

AVERAGE



Date: 22.MAR.2007 16:47:00

Date of Test	March 22, 2007	**Temperature**	25 deg/C
EUT	Broadband Router	**Humidity**	52 %RH
Working Cond.	Mode 1 (802.11b)	**Data Rate**	11Mbps
Antenna distance	3m at **Horizontal**	**Test Band**	Higher

Radiation Emission of Fundamental

Peak

Frequency [MHz]	Reading Level [dB(uV)]	Correction Factor [dB/m]	Emission Level [dB(uV/m)]
2463	77.71	31.36	109.07

Average

Frequency [MHz]	Reading Level [dB(uV)]	Correction Factor [dB/m]	Emission Level [dB(uV/m)]
2462.8	71.79	31.36	103.15

Remark:

1. All Readings below 1GHz are Quasi-Peak and above 1GHz are peak or average.
2. Spectrum Analizyer Setting(Peak Detector): RBW=1MHz, VBW=1MHZ.
3. Spectrum Analizyer Setting(AVG Detector): RBW=1MHz, VBW=10HZ
4. Emission Level= Reading + Correction Factor (Could have ±0.01 tolerance due to computer automatically round off calculation).
5. Correction Factor= Antenna Factor + Cable Loss – Amplifier Factor

TEST Result

The band edge emission plot on next page are Peak and Average. The polt for peak is appear (48.47)dB delta between carry power and maximum emission in restrict band 2483.5 MHz. The plot for average is appear (52.32)dB delta between carry power and maximum emission in restrict band (2487)MHz.

The above tables are list of fundamental emission test result.

Therefore, peak field strength of 2483.5 MHz is

109.07 dBuV/m – 48.47 dB = 60.6 dBuV/m which is under 74dBuV/m.

Average field strength of 2487 MHz is

103.15 dBuV/m – 53.32 dB = 49.83 dBuV/m which is under 54dBuV/m.

Date of Test	March 22, 2007	**Temperature**	25 deg/C
EUT	Broadband Router	**Humidity**	52 %RH
Working Cond.	Mode 1 (802.11b)	**Data Rate**	11Mbps
Antenna distance	3m at **Vertical**	**Test Band**	Higher

Radiation Emission of Fundamental

Peak

Frequency [MHz]	Reading Level [dB(uV)]	Correction Factor [dB/m]	Emission Level [dB(uV/m)]
2463	87.74	23.61	111.35

Average

Frequency [MHz]	Reading Level [dB(uV)]	Correction Factor [dB/m]	Emission Level [dB(uV/m)]
2463.3	80.56	23.61	104.17

Remark:

1. All Readings below 1GHz are Quasi-Peak and above 1GHz are peak or average.
2. Spectrum Analizyer Setting(Peak Detector): RBW=1MHz, VBW=1MHZ.
3. Spectrum Analizyer Setting(AVG Detector): RBW=1MHz, VBW=10HZ
4. Emission Level= Reading + Correction Factor (Could have ±0.01 tolerance due to computer automatically round off calculation).
5. Correction Factor= Antenna Factor + Cable Loss – Amplifier Factor

TEST Result

The band edge emission plot on next page are Peak and Average. The polt for peak is appear (48.47)dB delta between carry power and maximum emission in restrict band 2483.5 MHz. The plot for average is appear (52.32)dB delta between carry power and maximum emission in restrict band (2487)MHz.

The above tables are list of fundamental emission test result.

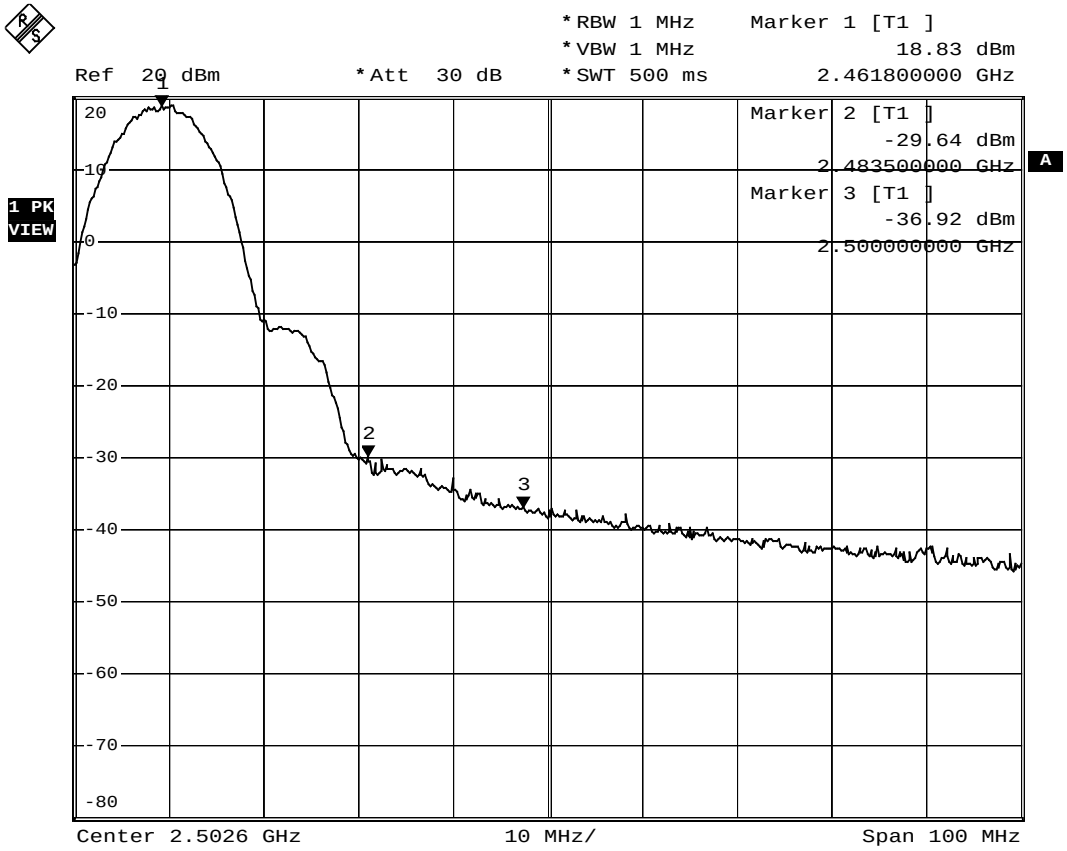
Therefore, peak field strength of 2483.5 MHz is

111.35 dBuV/m – 48.47 dB = 62.88 dBuV/m which is under 74dBuV/m.

Average field strength of 2487 MHz is

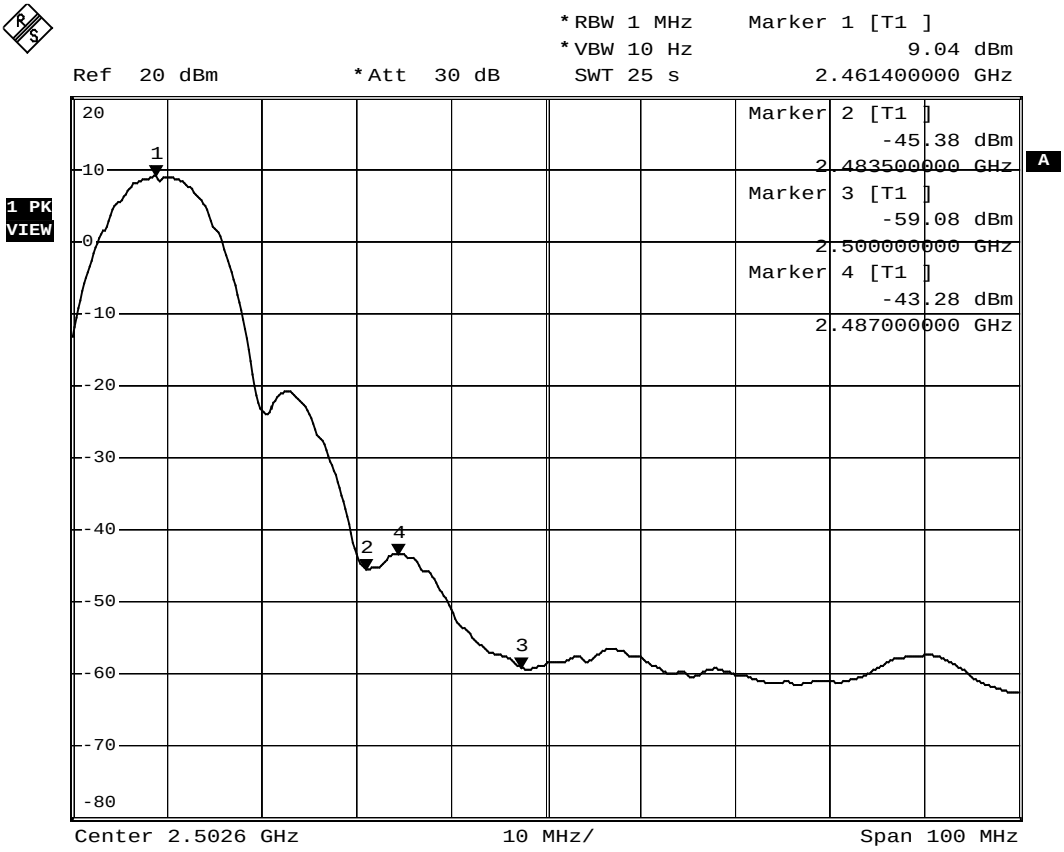
104.17 dBuV/m – 52.32 dB = 51.85 dBuV/m which is under 54dBuV/m.

PEAK



Date: 22.MAR.2007 16:52:34

AVERAGE



Date: 22.MAR.2007 16:54:35

Date of Test	February 16, 2007	**Temperature**	25 deg/C
EUT	Broadband Router	**Humidity**	52 %RH
Working Cond.	Mode 2 (802.11g)	**Data Rate**	54Mbps
Antenna distance	3m at **Horizontal**	**Test Band**	Lower

Radiation Emission of Fundamental

Peak

Frequency [MHz]	Reading Level [dB(uV)]	Correction Factor [dB/m]	Emission Level [dB(uV/m)]
2417	66.27	31.46	97.73

Average

Frequency [MHz]	Reading Level [dB(uV)]	Correction Factor [dB/m]	Emission Level [dB(uV/m)]
2410.8	54.88	31.48	86.36

Remark:

1. All Readings below 1GHz are Quasi-Peak and above 1GHz are peak or average.
2. Spectrum Analizyer Setting(Peak Detector): RBW=1MHz, VBW=1MHZ.
3. Spectrum Analizyer Setting(AVG Detector): RBW=1MHz, VBW=10HZ
4. Emission Level= Reading + Correction Factor (Could have ±0.01 tolerance due to computer automatically round off calculation).
5. Correction Factor= Antenna Factor + Cable Loss – Amplifier Factor

TEST Result

The band edge emission plot on next page are Peak and Average. The polt for peak is appear (49.36)dB delta between carry power and maximum emission in restrict band 2390 MHz. The plot for average is appear (44.43)dB delta between carry power and maximum emission in restrict band (2390)MHz.

The above tables are list of fundamental emission test result.

Therefore, peak field strength of 2390 MHz is

97.73 dBuV/m – 49.36 dB = 48.37 dBuV/m which is under 74dBuV/m.

Average field strength of 2390 MHz is

86.36 dBuV/m – 44.43 dB = 41.93 dBuV/m which is under 54dBuV/m.

Date of Test	February 16, 2007	**Temperature**	25 deg/C
EUT	Broadband Router	**Humidity**	52 %RH
Working Cond.	Mode 2 (802.11g)	**Data Rate**	54Mbps
Antenna distance	3m at **Vertical**	**Test Band**	Lower

Radiation Emission of Fundamental

Peak

Frequency [MHz]	Reading Level [dB(uV)]	Correction Factor [dB/m]	Emission Level [dB(uV/m)]
2417.3	75.55	24.35	99.90

Average

Frequency [MHz]	Reading Level [dB(uV)]	Correction Factor [dB/m]	Emission Level [dB(uV/m)]
2413.8	63.29	24.41	87.7

Remark:

1. All Readings below 1GHz are Quasi-Peak and above 1GHz are peak or average.
2. Spectrum Analizyer Setting(Peak Detector): RBW=1MHz, VBW=1MHZ.
3. Spectrum Analizyer Setting(AVG Detector): RBW=1MHz, VBW=10HZ
4. Emission Level= Reading + Correction Factor (Could have ±0.01 tolerance due to computer automatically round off calculation).
5. Correction Factor= Antenna Factor + Cable Loss – Amplifier Factor

TEST Result

The band edge emission plot on next page are Peak and Average. The polt for peak is appear (49.36)dB delta between carry power and maximum emission in restrict band 2390 MHz. The plot for average is appear (44.43)dB delta between carry power and maximum emission in restrict band (2390)MHz.

The above tables are list of fundamental emission test result.

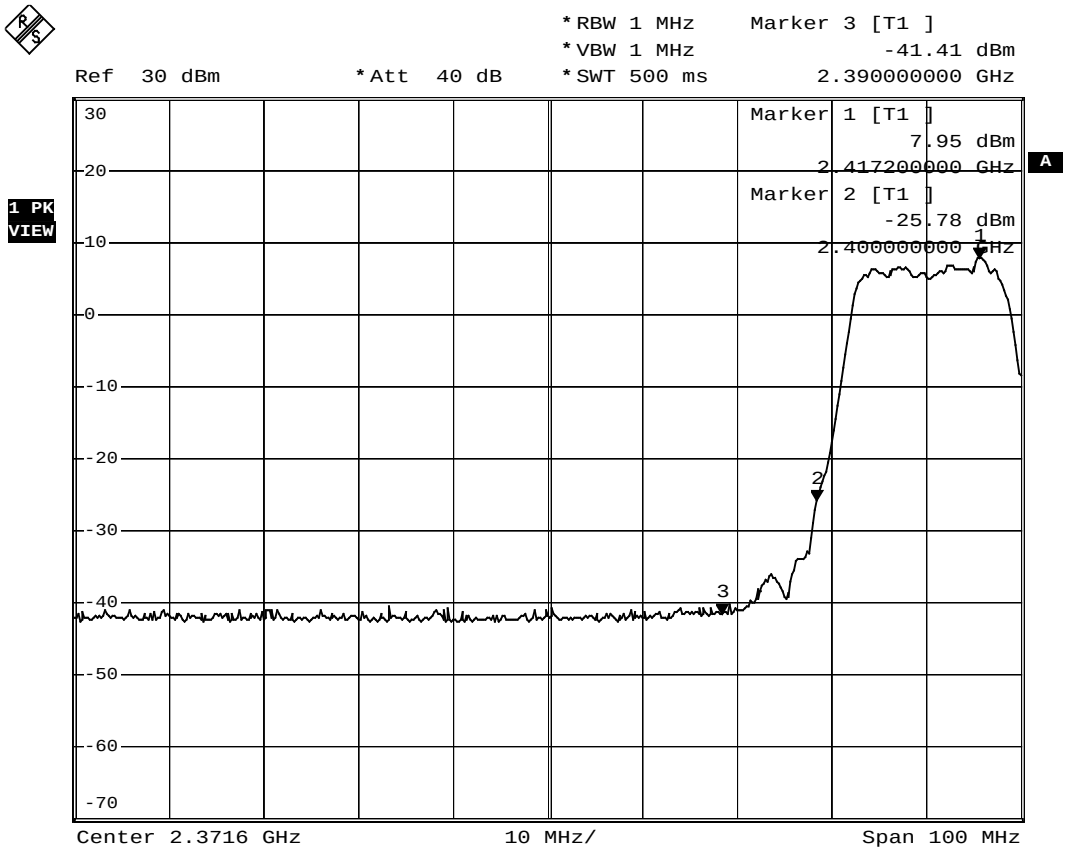
Therefore, peak field strength of 2390 MHz is

99.90 dBuV/m – 49.36 dB = 50.54dBuV/m which is under 74dBuV/m.

Average field strength of 2390 MHz is

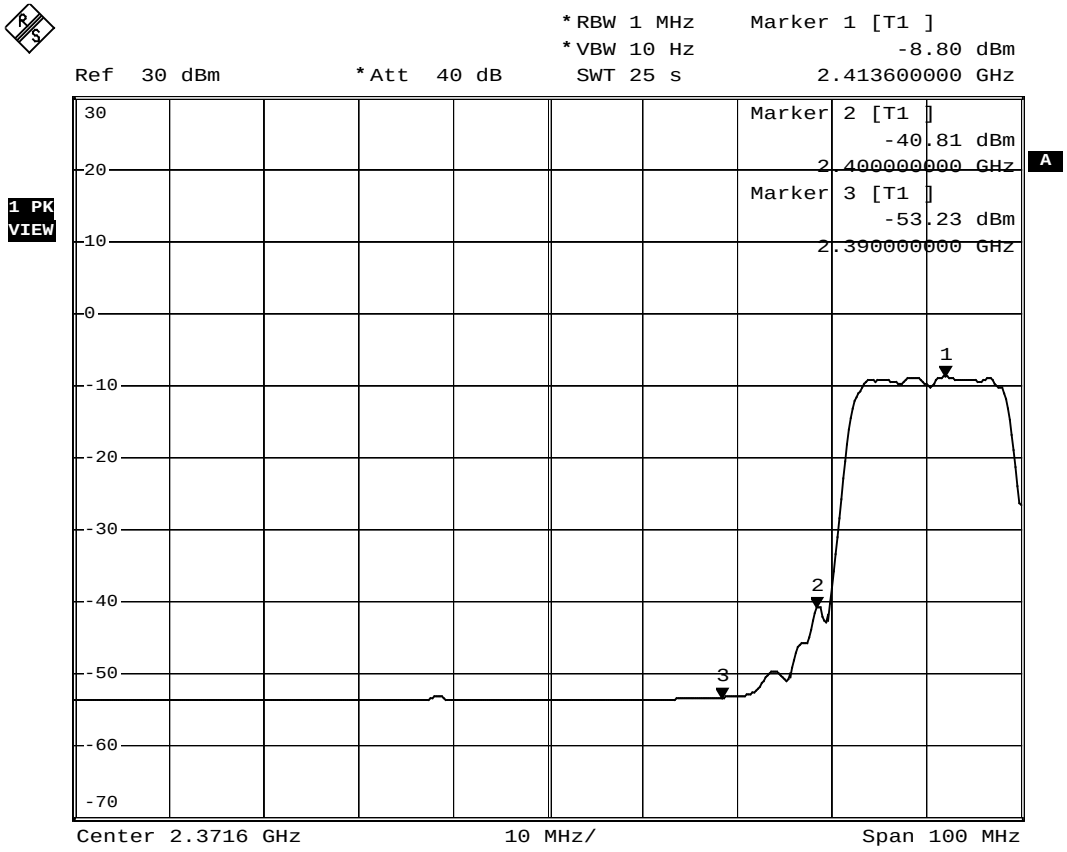
87.7 dBuV/m – 44.43 dB = 43.27 dBuV/m which is under 54dBuV/m.

PEAK



Date: 16.FEB.2007 11:12:02

AVERAGE



Date: 16.FEB.2007 11:14:31

Date of Test	February 16, 2007	**Temperature**	25 deg/C
EUT	Broadband Router	**Humidity**	52 %RH
Working Cond.	Mode 2 (802.11g)	**Data Rate**	54Mbps
Antenna distance	3m at **Horizontal**	**Test Band**	Higher

Radiation Emission of Fundamental

Peak

Frequency [MHz]	Reading Level [dB(uV)]	Correction Factor [dB/m]	Emission Level [dB(uV/m)]
2467	66.47	31.34	97.81

Average

Frequency [MHz]	Reading Level [dB(uV)]	Correction Factor [dB/m]	Emission Level [dB(uV/m)]
2463.8	54.78	31.35	86.13

Remark:

1. All Readings below 1GHz are Quasi-Peak and above 1GHz are peak or average.
2. Spectrum Analizyer Setting(Peak Detector): RBW=1MHz, VBW=1MHZ.
3. Spectrum Analizyer Setting(AVG Detector): RBW=1MHz, VBW=10HZ
4. Emission Level= Reading + Correction Factor (Could have ±0.01 tolerance due to computer automatically round off calculation).
5. Correction Factor= Antenna Factor + Cable Loss – Amplifier Factor

TEST Result

The band edge emission plot on next page are Peak and Average. The polt for peak is appear (45.35)dB delta between carry power and maximum emission in restrict band 2483.5 MHz. The plot for average is appear (44.09)dB delta between carry power and maximum emission in restrict band (2483.5)MHz.

The above tables are list of fundamental emission test result.

Therefore, peak field strength of 2483.5 MHz is

97.81 dBuV/m – 45.35 dB = 52.46V/m which is under 74dBuV/m.

Average field strength of 2483.5 MHz is

86.13 dBuV/m – 44.09 dB = 42.04 dBuV/m which is under 54dBuV/m.

Date of Test	February 16, 2007	**Temperature**	25 deg/C
EUT	Broadband Router	**Humidity**	52 %RH
Working Cond.	Mode 2 (802.11g)	**Data Rate**	54Mbps
Antenna distance	3m at **Vertical**	**Test Band**	Higher

Radiation Emission of Fundamental

Peak

Frequency [MHz]	Reading Level [dB(uV)]	Correction Factor [dB/m]	Emission Level [dB(uV/m)]
2467.3	76.17	23.54	99.71

Average

Frequency [MHz]	Reading Level [dB(uV)]	Correction Factor [dB/m]	Emission Level [dB(uV/m)]
2463.6	63.45	23.6	87.05

Remark:

1. All Readings below 1GHz are Quasi-Peak and above 1GHz are peak or average.
2. Spectrum Analizyer Setting(Peak Detector): RBW=1MHz, VBW=1MHZ.
3. Spectrum Analizyer Setting(AVG Detector): RBW=1MHz, VBW=10HZ
4. Emission Level= Reading + Correction Factor (Could have ±0.01 tolerance due to computer automatically round off calculation).
5. Correction Factor= Antenna Factor + Cable Loss – Amplifier Factor

TEST Result

The band edge emission plot on next page are Peak and Average. The polt for peak is appear (45.35)dB delta between carry power and maximum emission in restrict band 2483.5 MHz. The plot for average is appear (44.09)dB delta between carry power and maximum emission in restrict band (2483.5)MHz.

The above tables are list of fundamental emission test result.

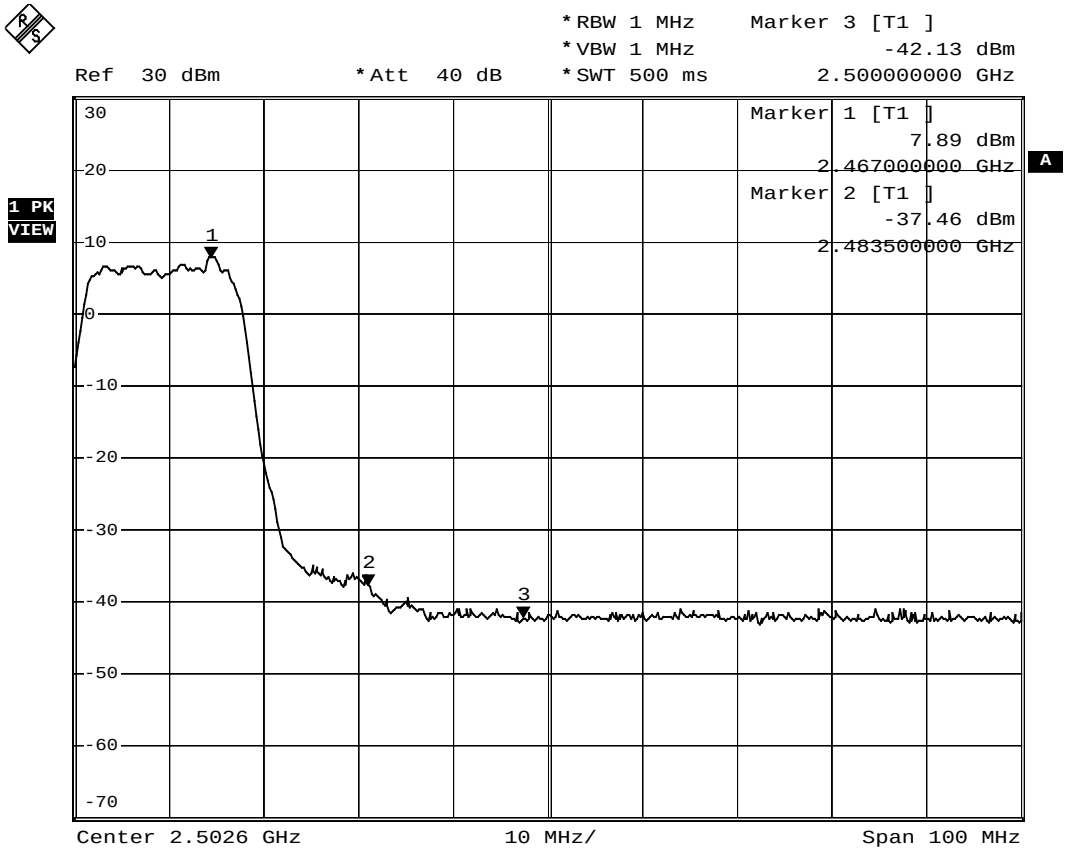
Therefore, peak field strength of 2483.5 MHz is

99.71dBuV/m – 45.35 dB = 54.36 dBuV/m which is under 74dBuV/m.

Average field strength of 2483.5 MHz is

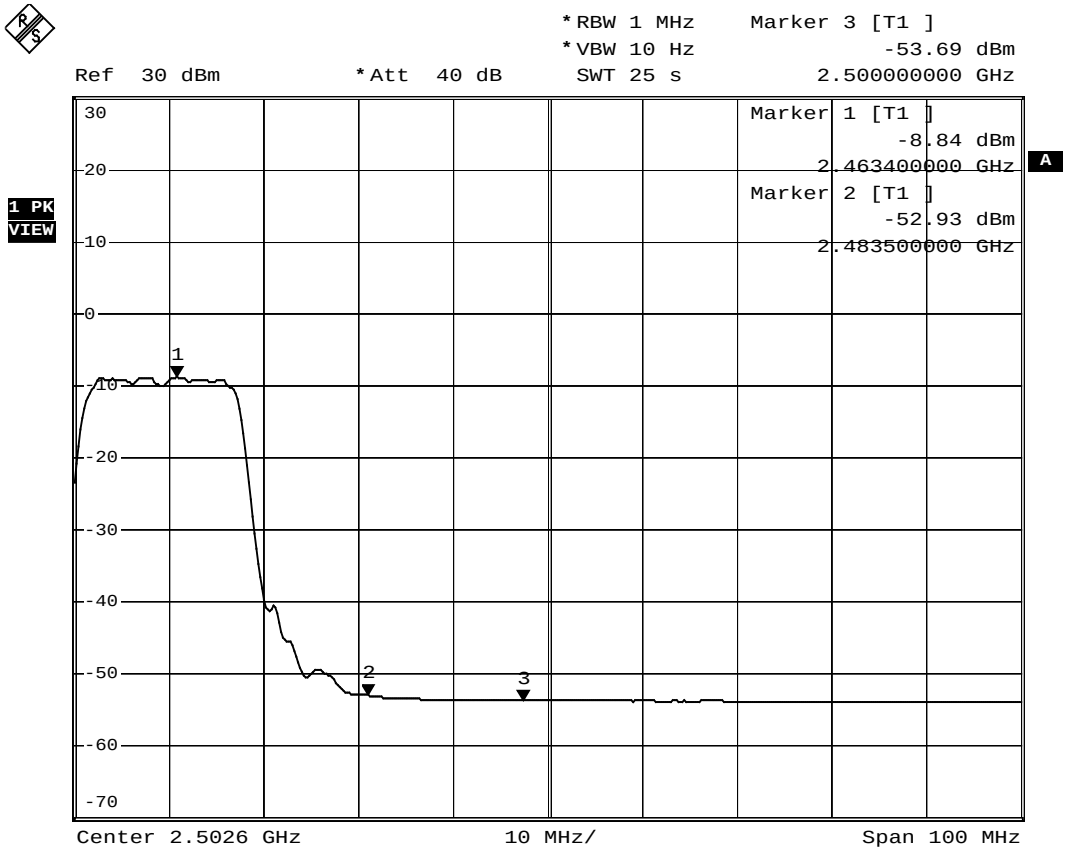
87.05 dBuV/m – 44.09 dB = 42.96 dBuV/m which is under 54dBuV/m.

PEAK



Date: 16.FEB.2007 11:19:53

AVERAGE



Date: 16.FEB.2007 11:22:56

7. OCCUPIED BANDWIDTH

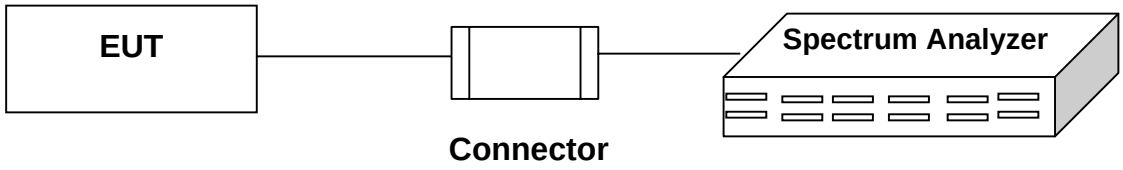
7.1 TEST EQUIPMENT

The following test equipments are used during the radiated emission tests:

Item	Instrument	Manufacturer	Model	Serial No.	Last Cal.
1	Spectrum Analyzer	RS	FSP40	100061	04/03/06
2	Spectrum Analyzer	HP	E4407B	US39240339	07/26/06

Note: All measurement critical items of test instrumentation were within their calibration period of 1 year.

7.2 BLOCK DIAGRAM OF TEST SETUP



7.3 LIMIT

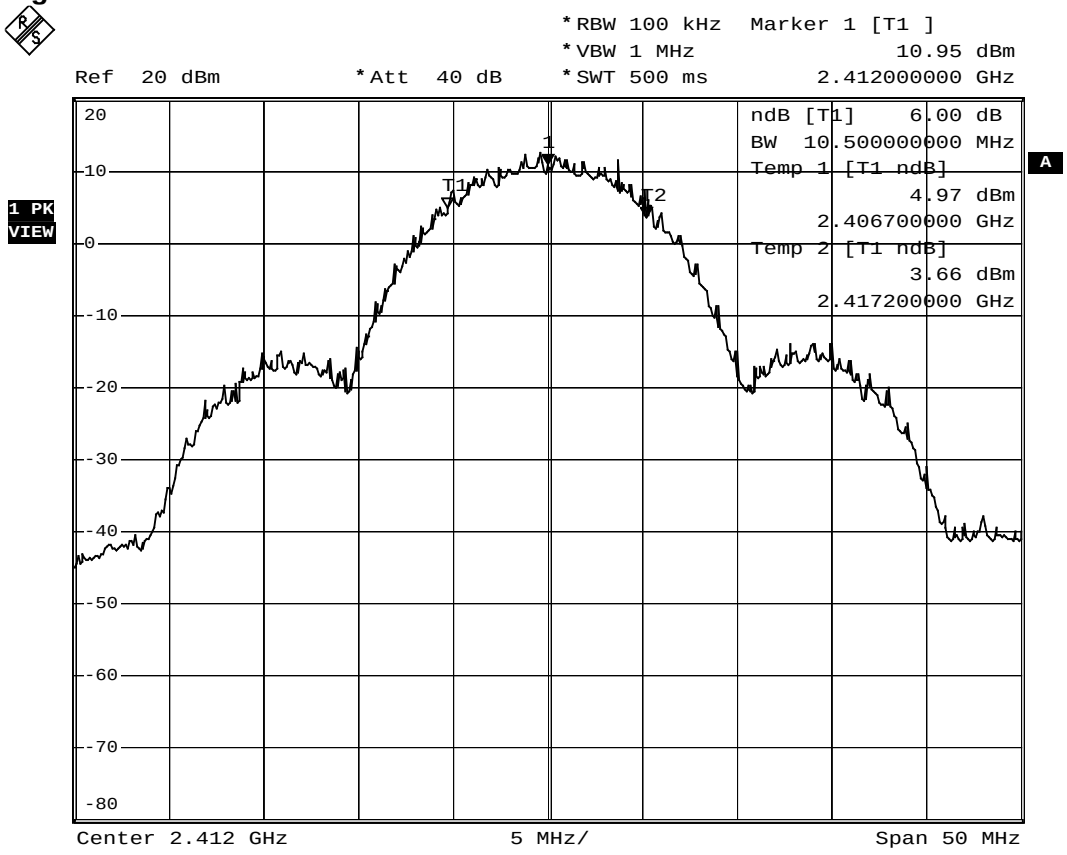
WLAN: The minimum 6dB bandwidth shall be at least 500KHz.

7.4 TEST RESULT

Date of Test	February 16, 2007	**Temperature**	25 deg/C
EUT	Broadband Router	**Humidity**	52 %RH
Working Cond.	Mode 1 (802.11b)	**Data Rate**	11Mbps

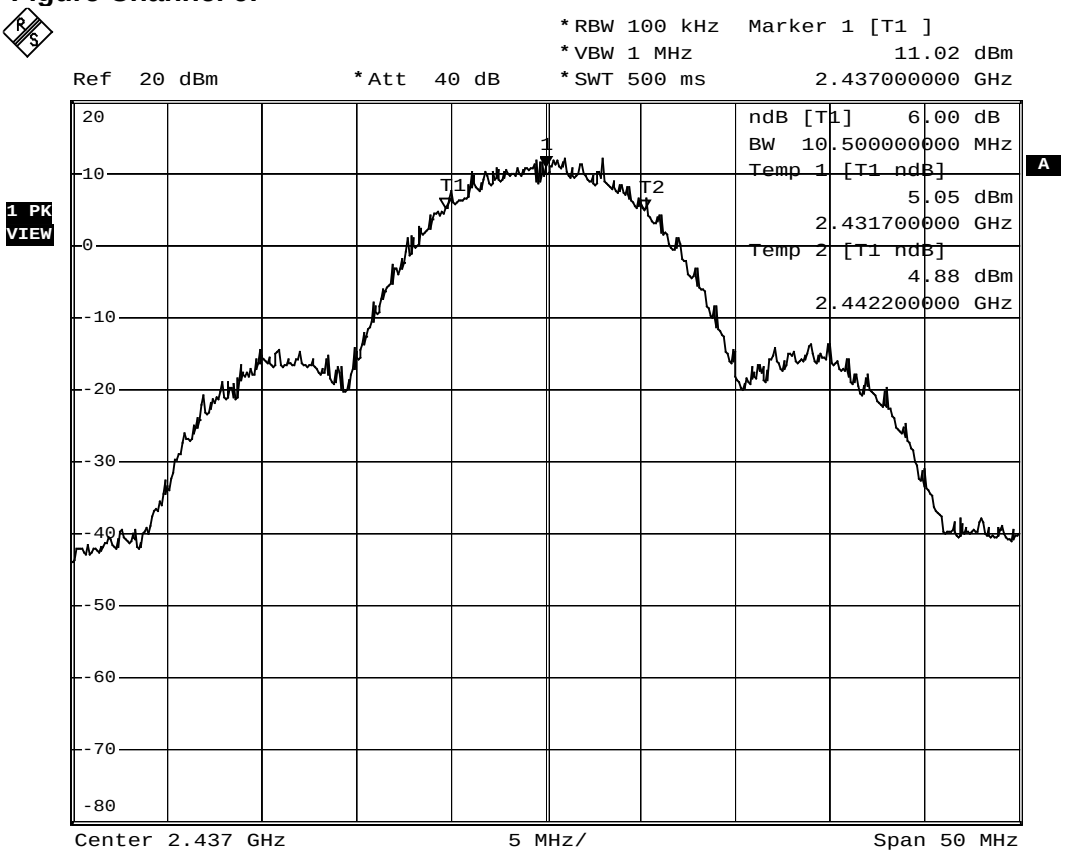
Channel No.	Frequency (MHz)	Bandwidth (MHz)	Required limit (KHz)	Result
1	2412	10.5	>500	Pass
6	2437	10.5	>500	Pass
11	2462	10.5	>500	Pass

Figure Channel 1:



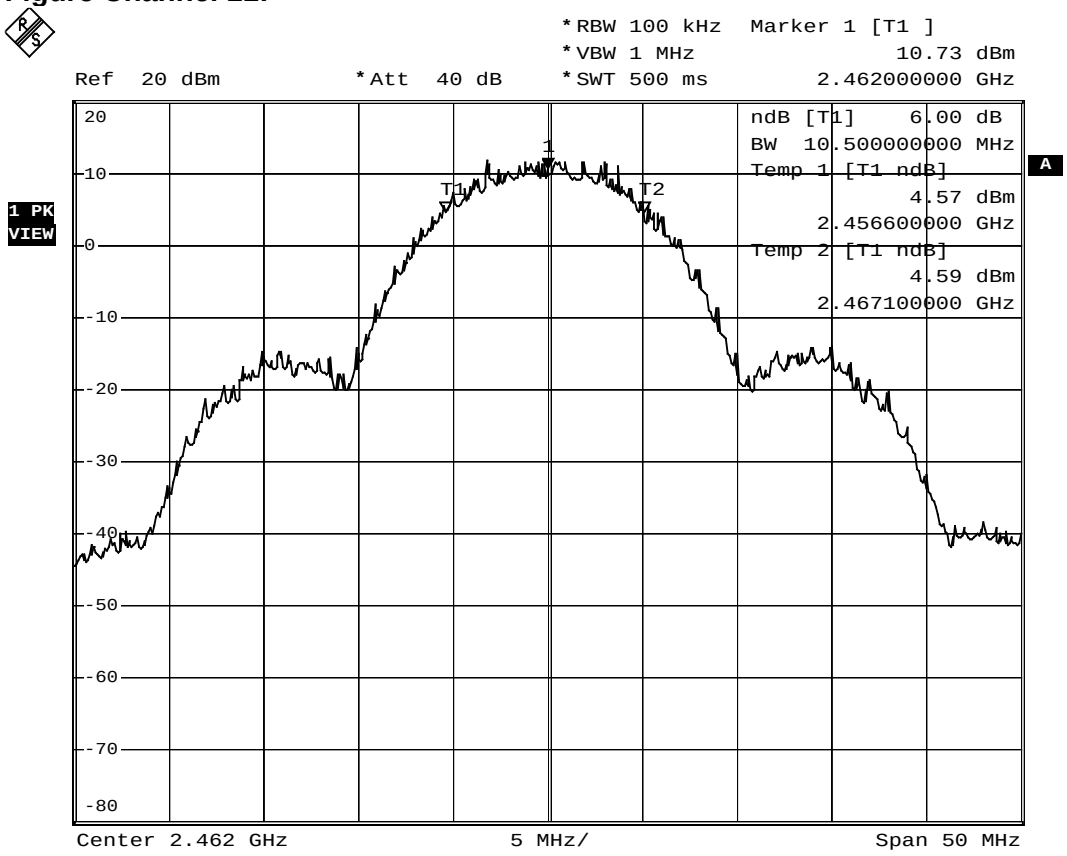
Date: 16.FEB.2007 12:54:57

Figure Channel 6:



Date: 16.FEB.2007 12:57:24

Figure Channel 11:

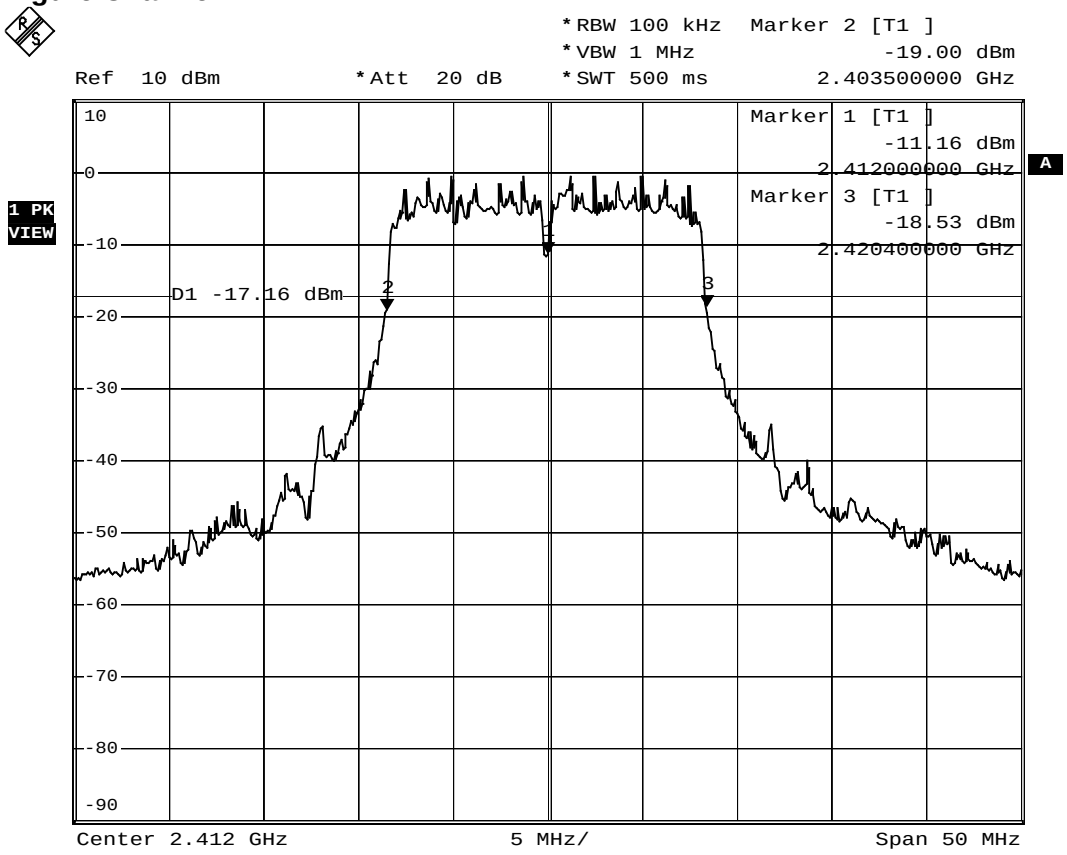


Date: 16.FEB.2007 12:59:39

Date of Test	February 16, 2007	**Temperature**	25 deg/C
EUT	Broadband Router	**Humidity**	52 %RH
Working Cond.	Mode 2 (802.11g)	**Data Rate**	54Mbps

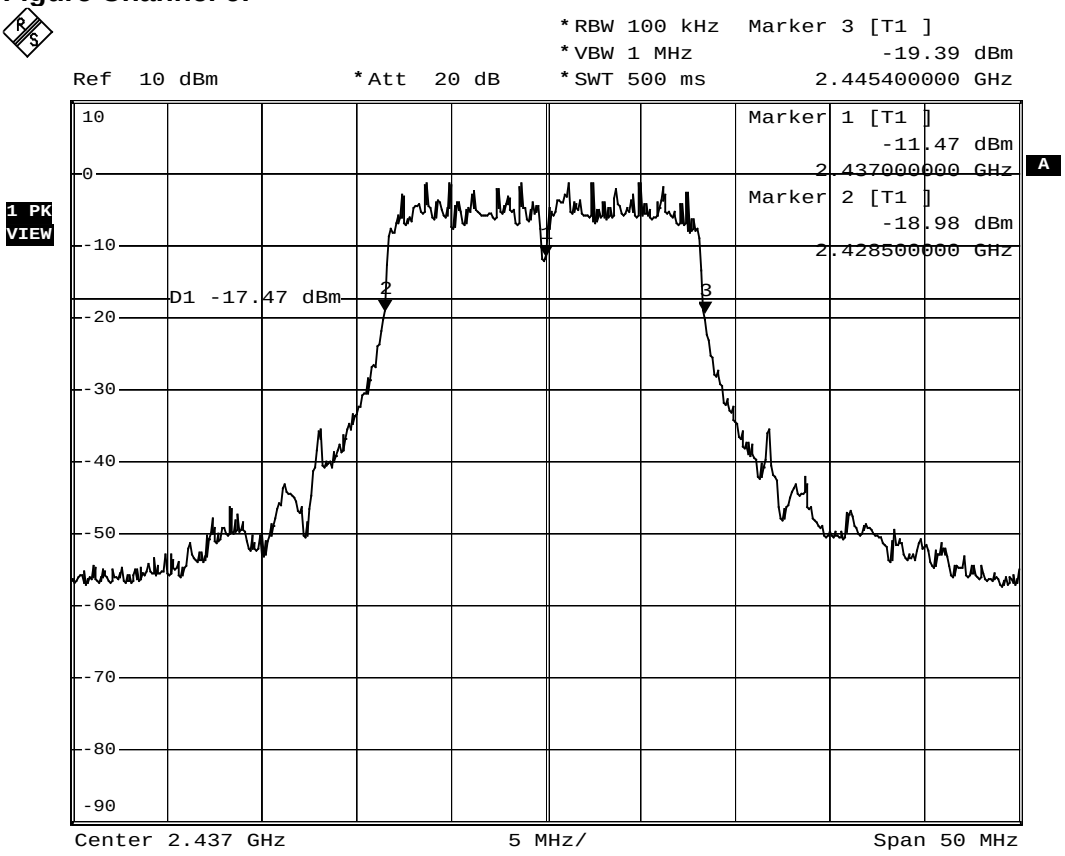
Channel No.	Frequency (MHz)	Bandwidth (MHz)	Required limit (KHz)	Result
1	2412	16.9	>500	Pass
6	2437	16.9	>500	Pass
11	2462	16.9	>500	Pass

Figure Channel 1:



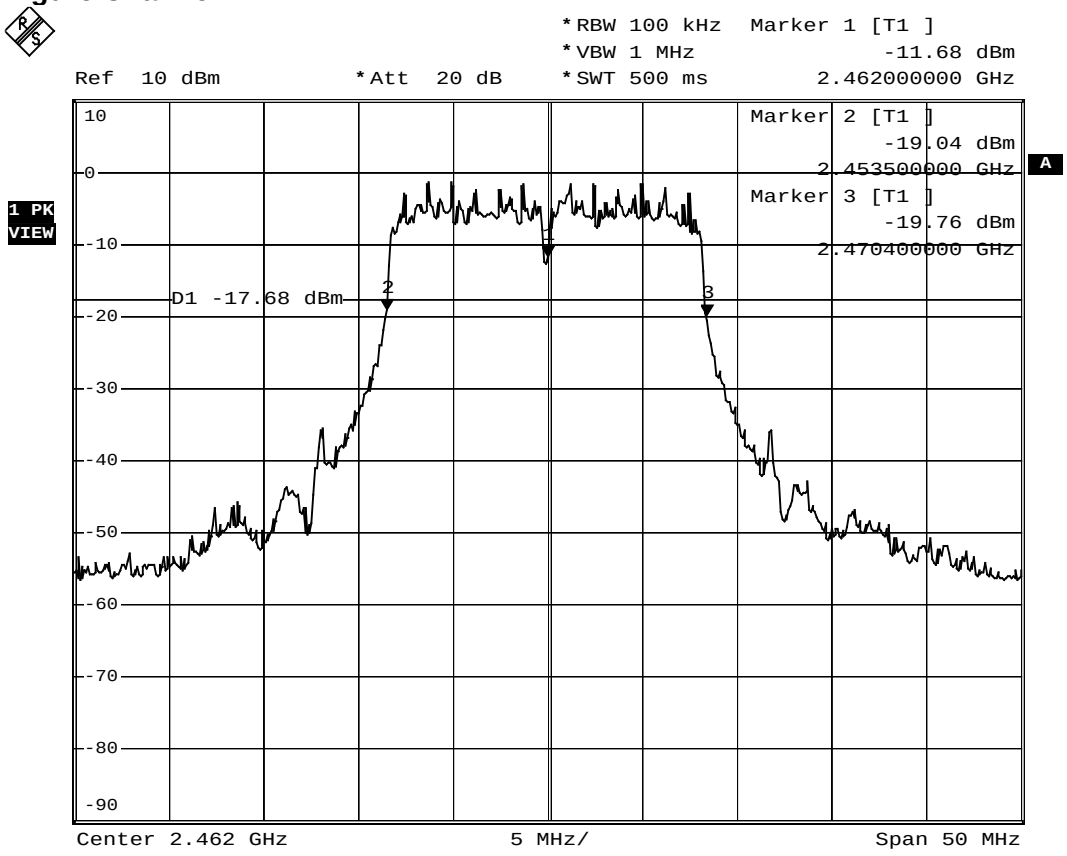
Date: 27.FEB.2007 13:46:10

Figure Channel 6:



Date: 16.FEB.2007 13:09:47

Figure Channel 11:



Date: 16.FEB.2007 13:07:08

8. POWER DENSITY

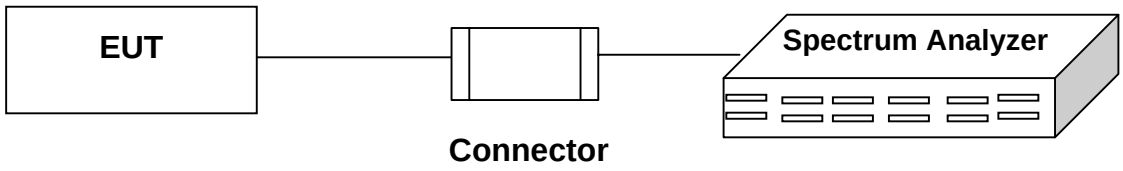
8.1 TEST EQUIPMENT

The following test equipments are used during the radiated emission tests:

Item	Instrument	Manufacturer	Model	Serial No.	Last Cal.
1	Spectrum Analyzer	RS	FSP40	100061	04/03/06
2	Spectrum Analyzer	HP	E4407B	US39240339	07/26/06

Note: All measurement critical items of test instrumentation were within their calibration period of 1 year.

8.2 BLOCK DIAGRAM OF TEST SETUP



8.3 LIMIT

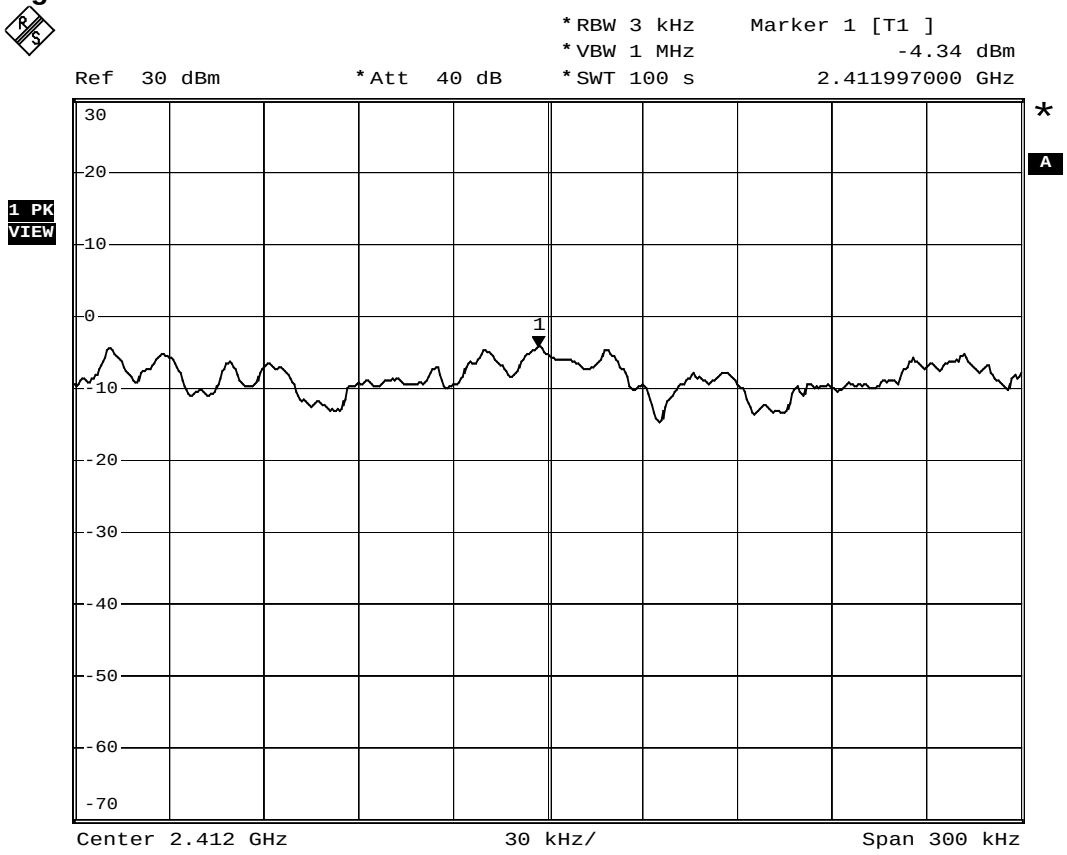
The transmitted power density averaged over any 1 second interval shall not be greater +8dBm in any 3KHz bandwidth.

8.4 TEST RESULT

Date of Test	February 16, 2007	**Temperature**	25 deg/C
EUT	Broadband Router	**Humidity**	52 %RH
Working Cond.	Mode 1 (802.11b)	**Data Rate**	11Mbps

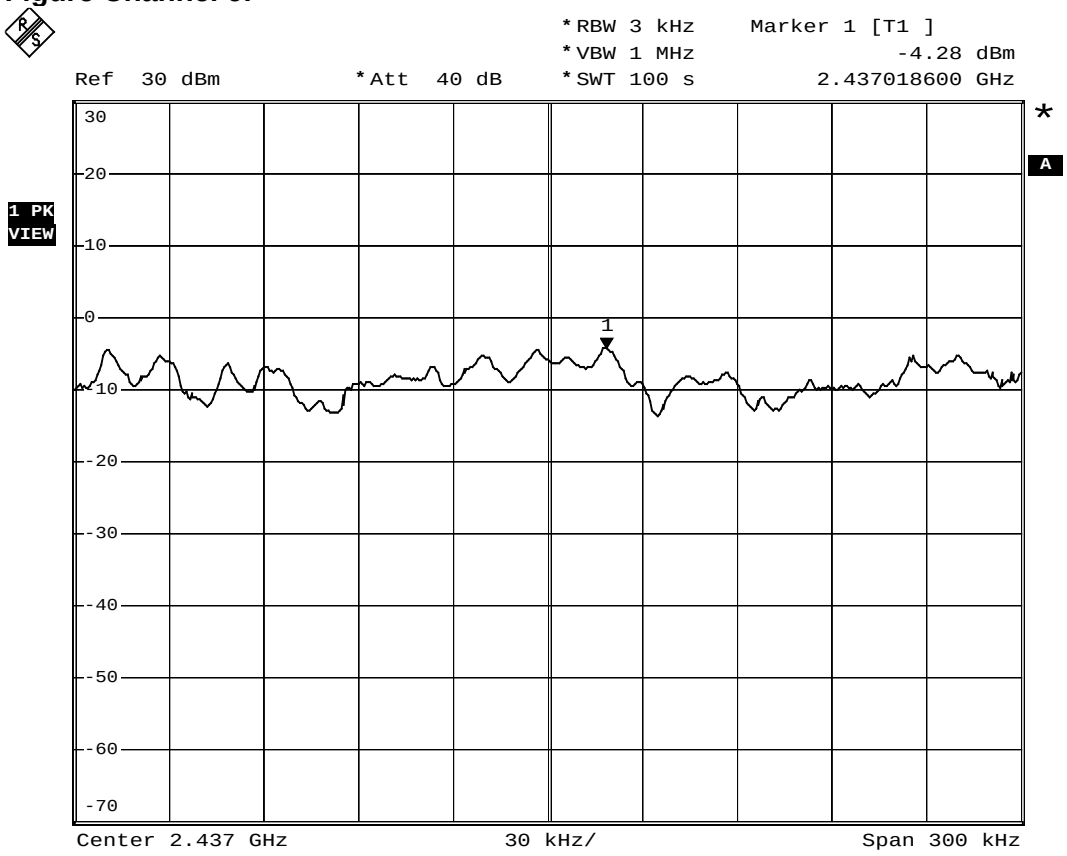
Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required limit (dBm)	Result
1	2412	-4.34	<8dBm	Pass
6	2437	-4.28	<8dBm	Pass
11	2462	-4.33	<8dBm	Pass

Figure Channel 1:



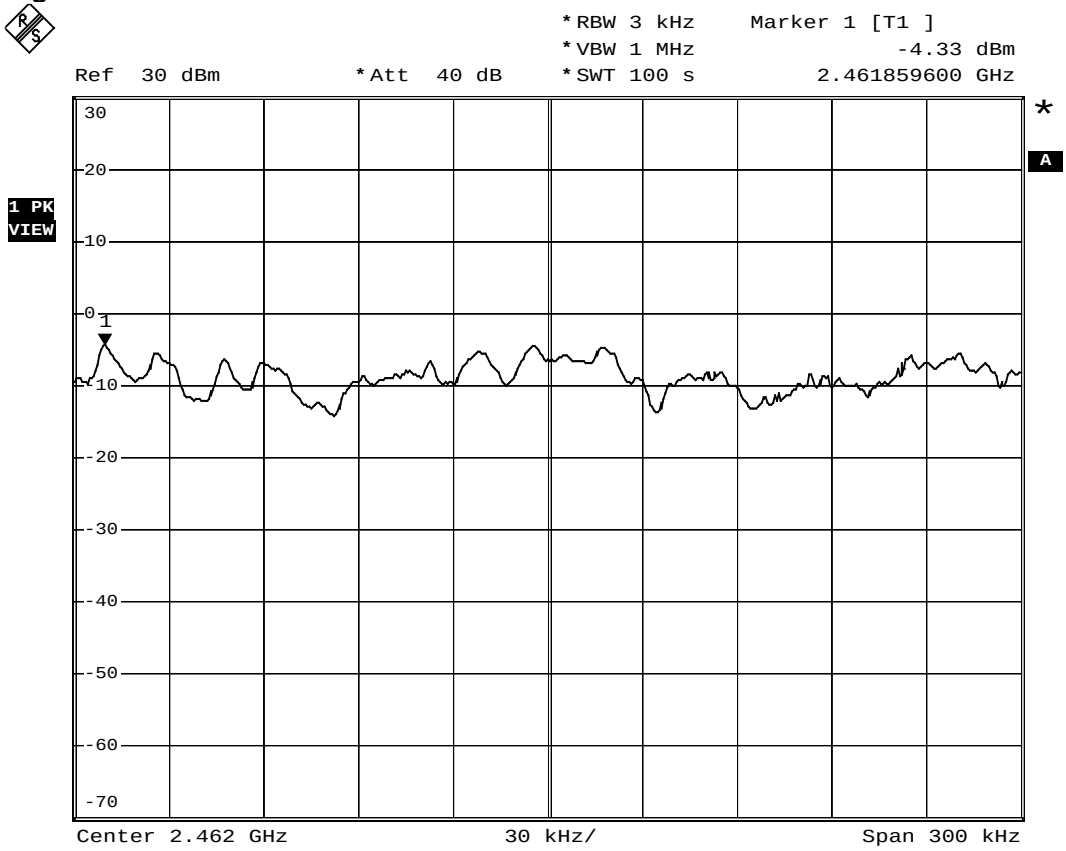
Date: 16.FEB.2007 13:45:21

Figure Channel 6:



Date: 16.FEB.2007 13:53:25

Figure Channel 11:

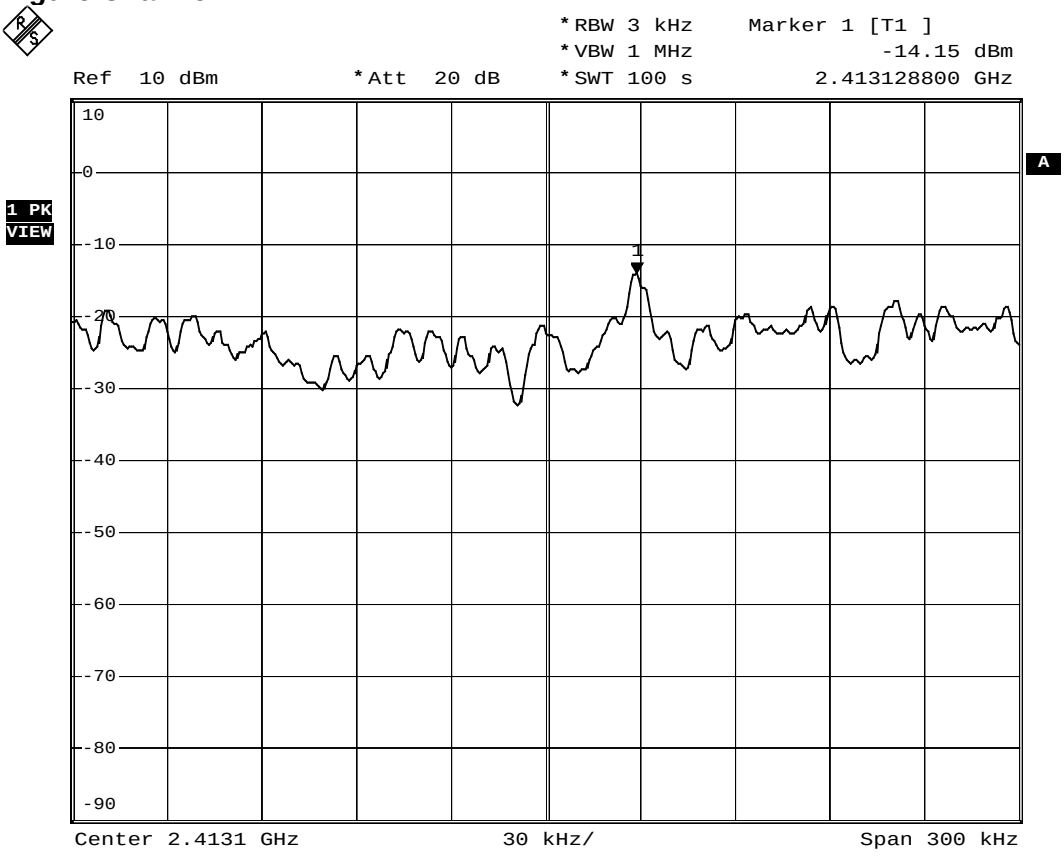


Date: 16.FEB.2007 13:58:43

Date of Test	February 16, 2007	**Temperature**	25 deg/C
EUT	Broadband Router	**Humidity**	52 %RH
Working Cond.	Mode 2 (802.11g)	**Data Rate**	54Mbps

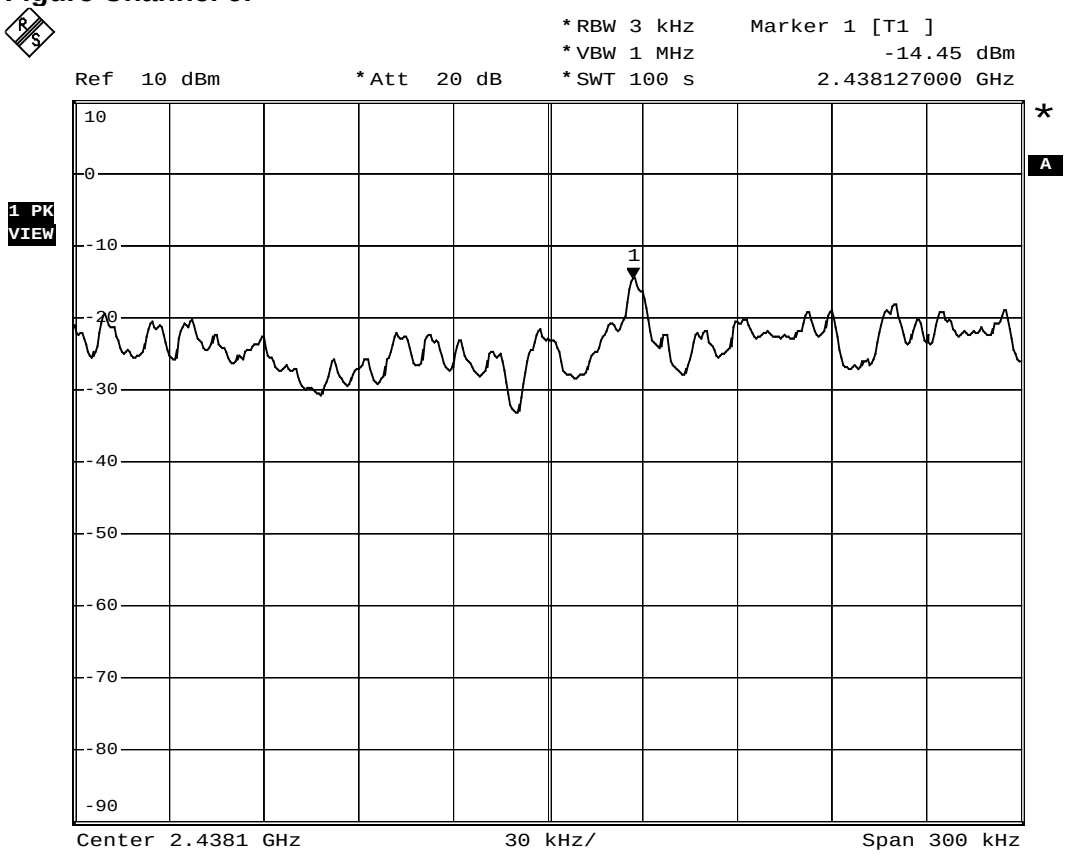
Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required limit (dBm)	Result
1	2412	-14.15	<8dBm	Pass
6	2437	-14.45	<8dBm	Pass
11	2462	-14.90	<8dBm	Pass

Figure Channel 1:



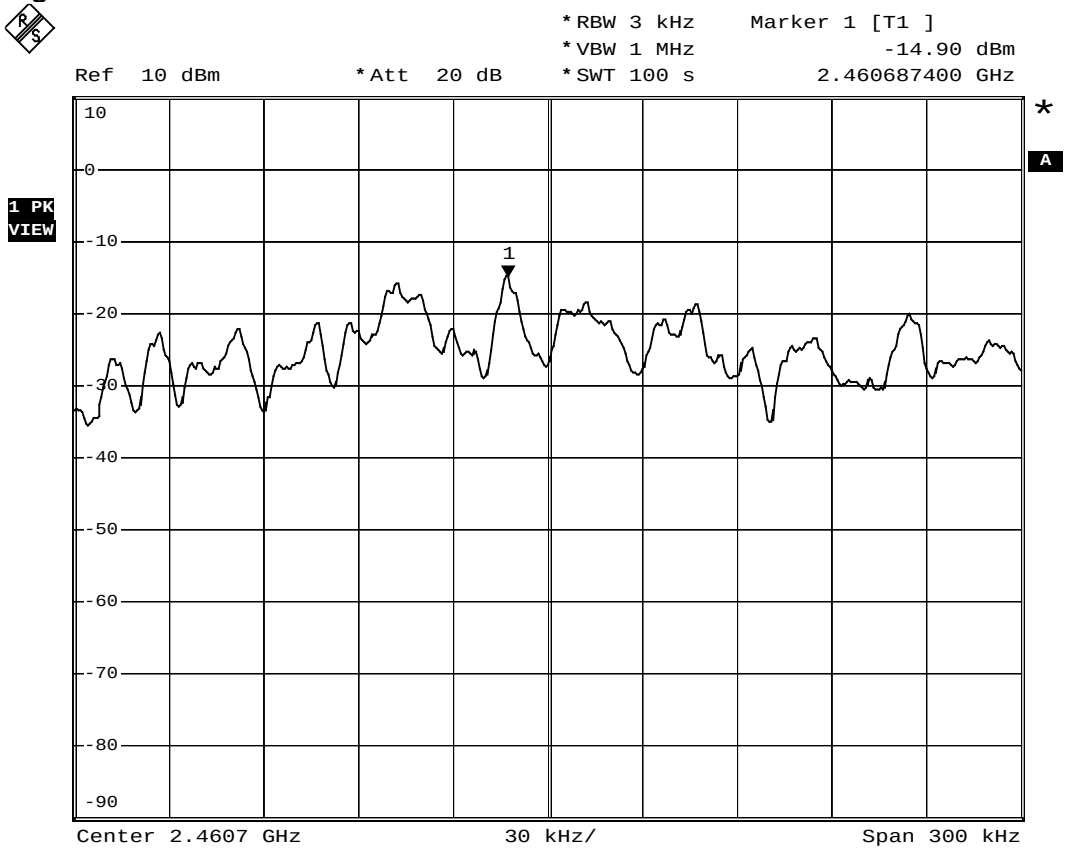
Date: 27.FEB.2007 14:27:43

Figure Channel 6:



Date: 16.FEB.2007 14:08:42

Figure Channel 11:



Date: 16.FEB.2007 14:03:54

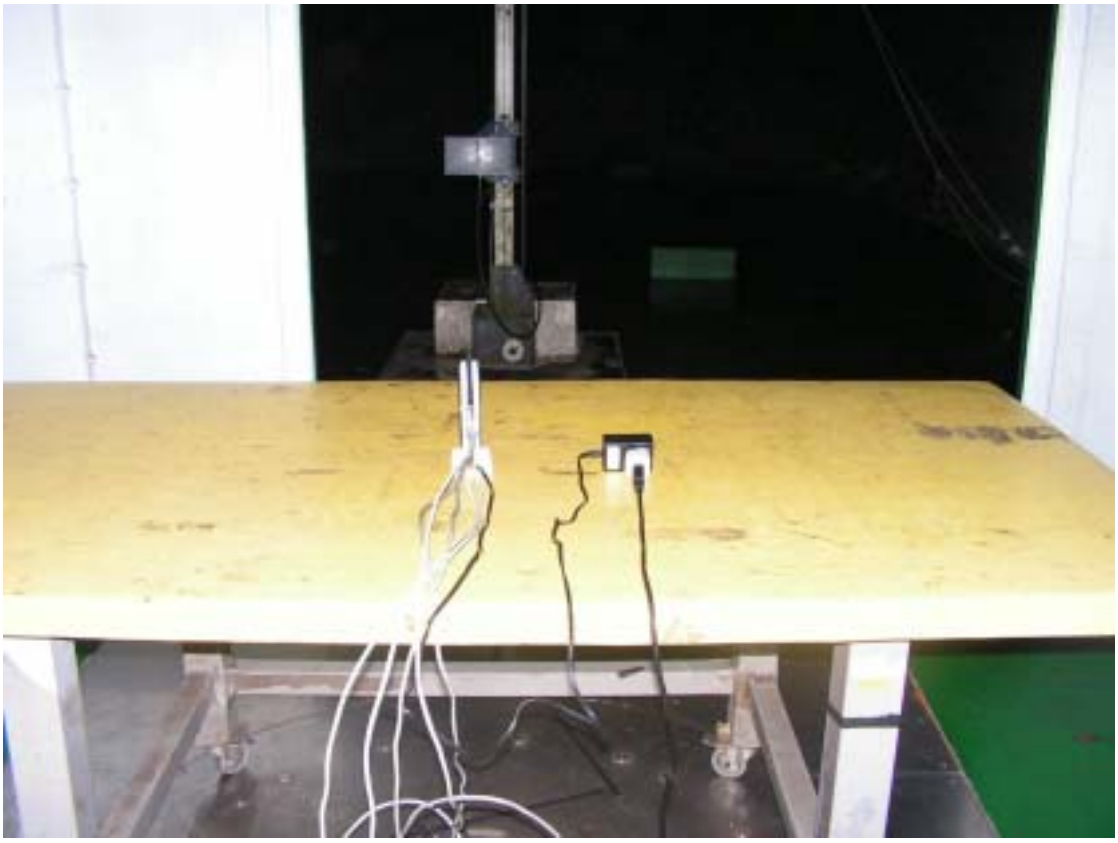
9.PHOTOGRAPHS FOR TEST

9.1 TEST PHOTOGRAPHS FOR CONDUCTION

9.2 TEST PHOTOGRAPHS FOR RADIATION

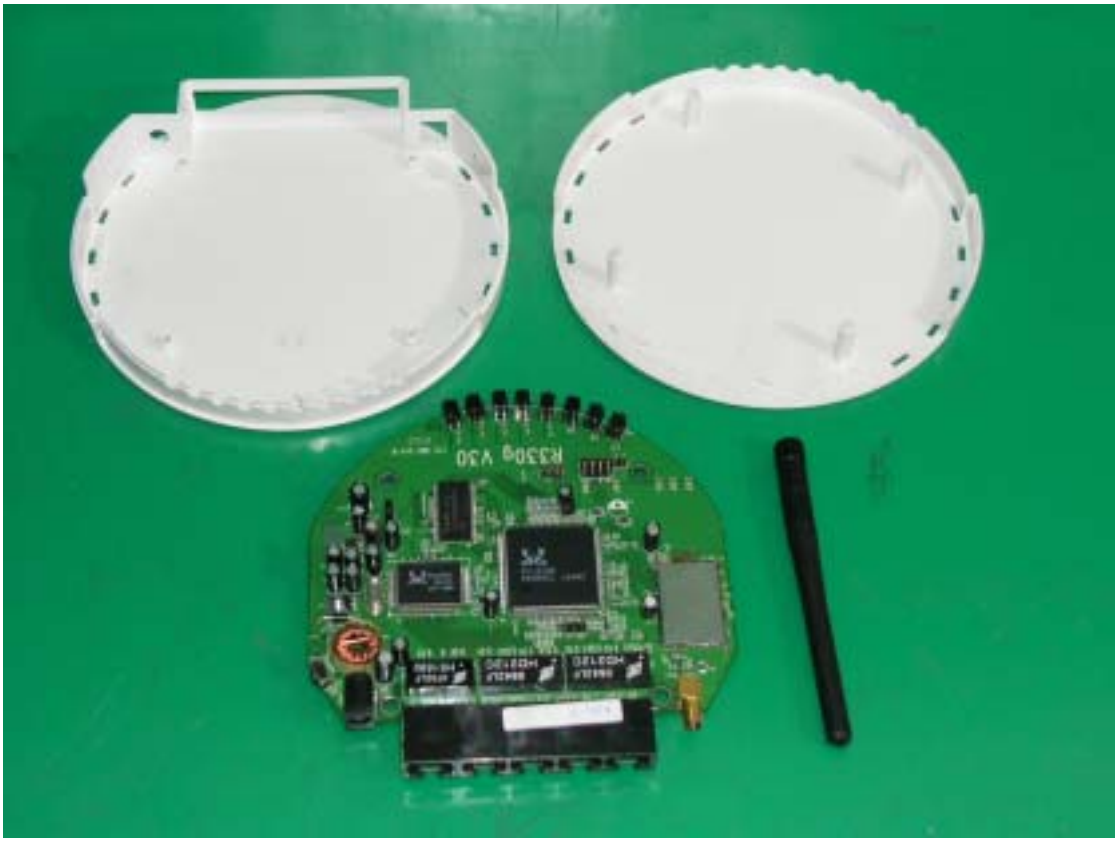
30-1000MHz

Above 1GHz

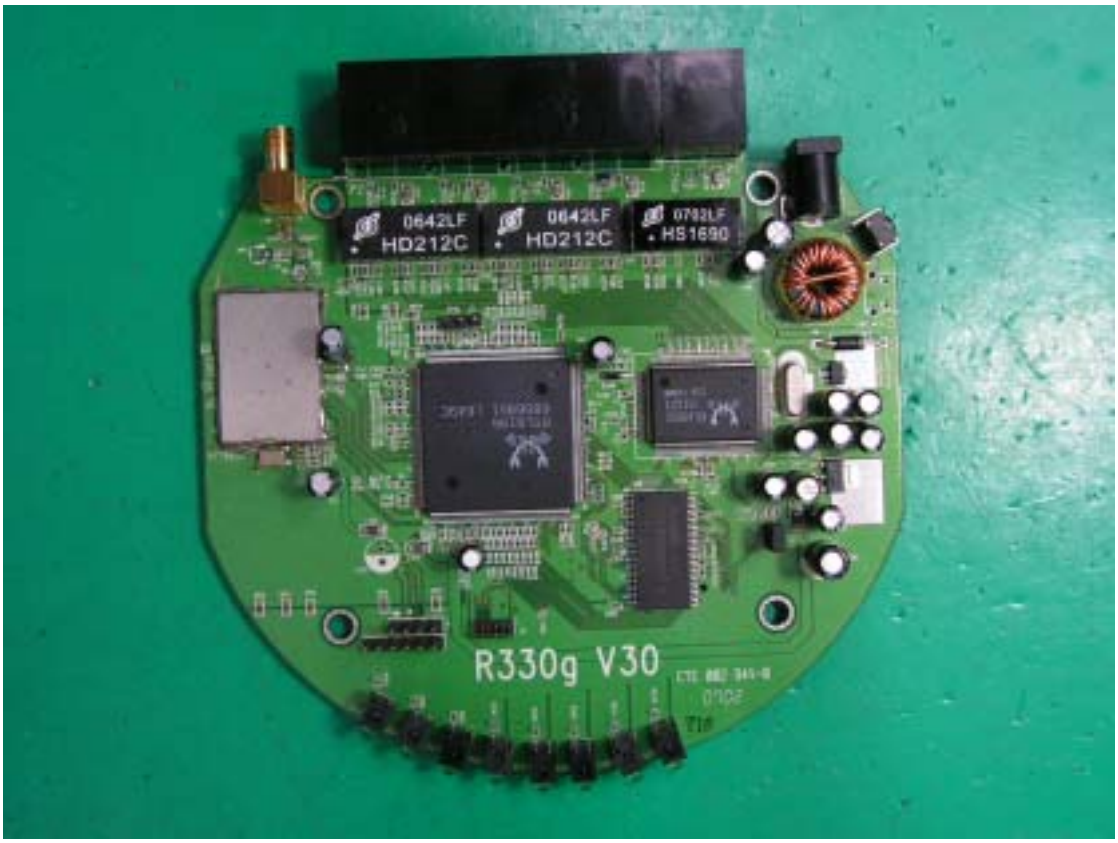


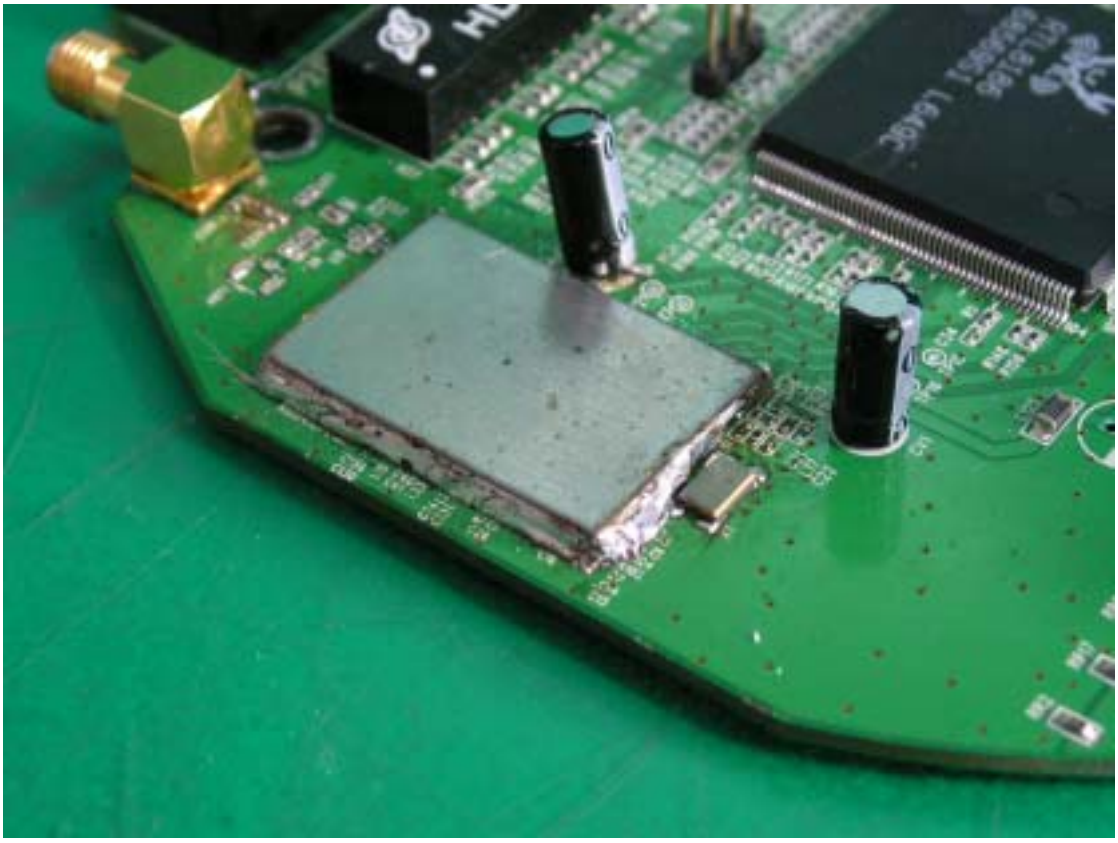
10. PHOTOGRAPHS FOR PRODUCT

1.
2.



3.
4.



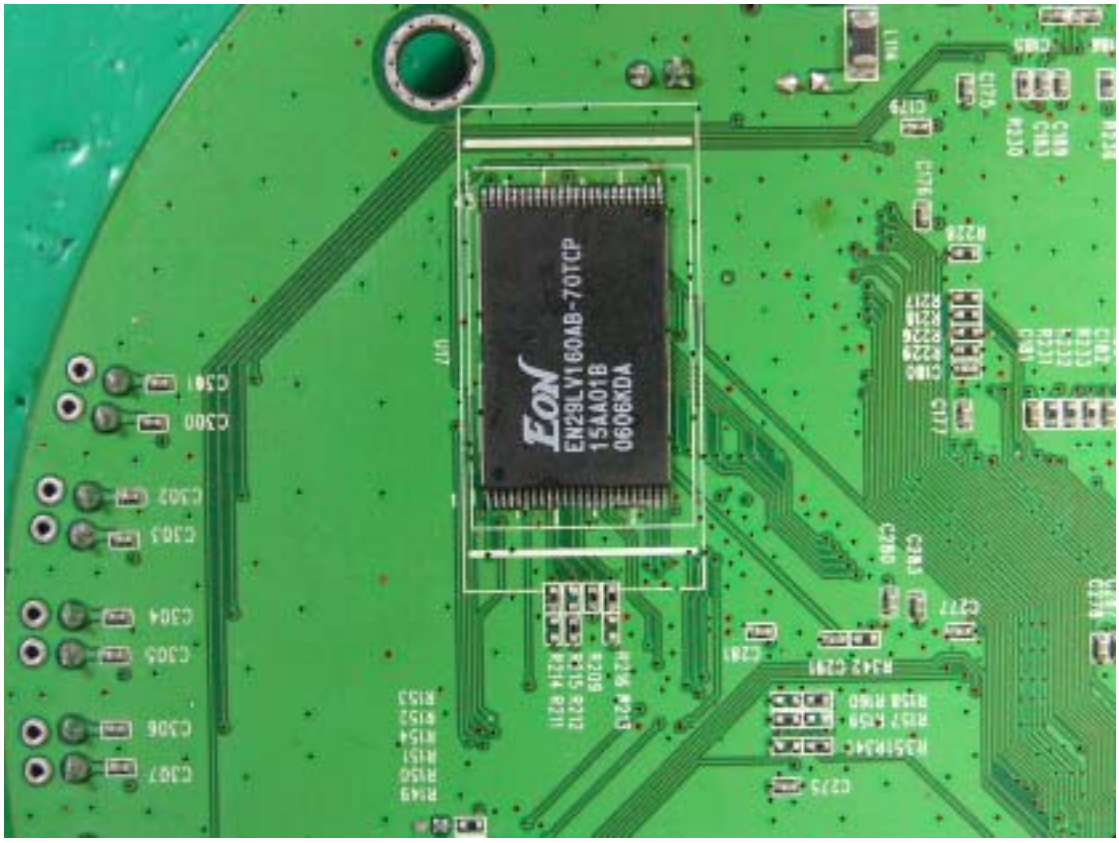


5.
6.

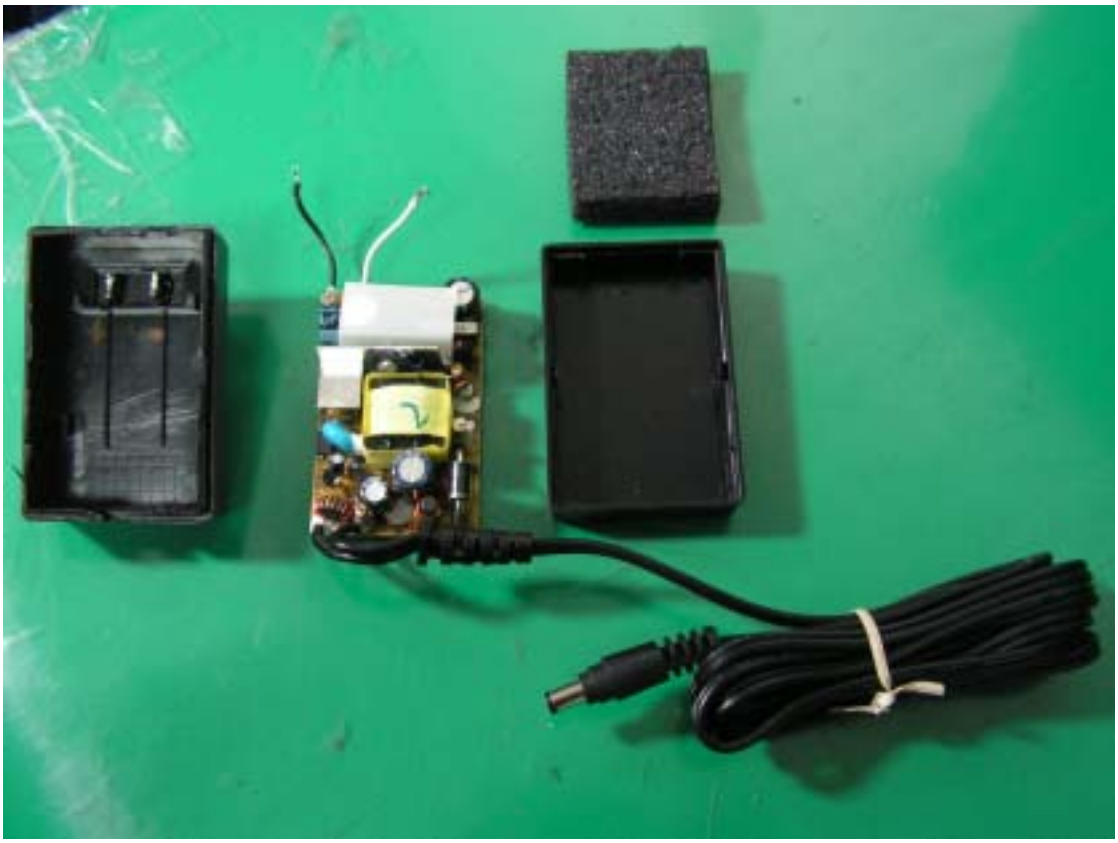
7. RF Modular
8.

9.
10.

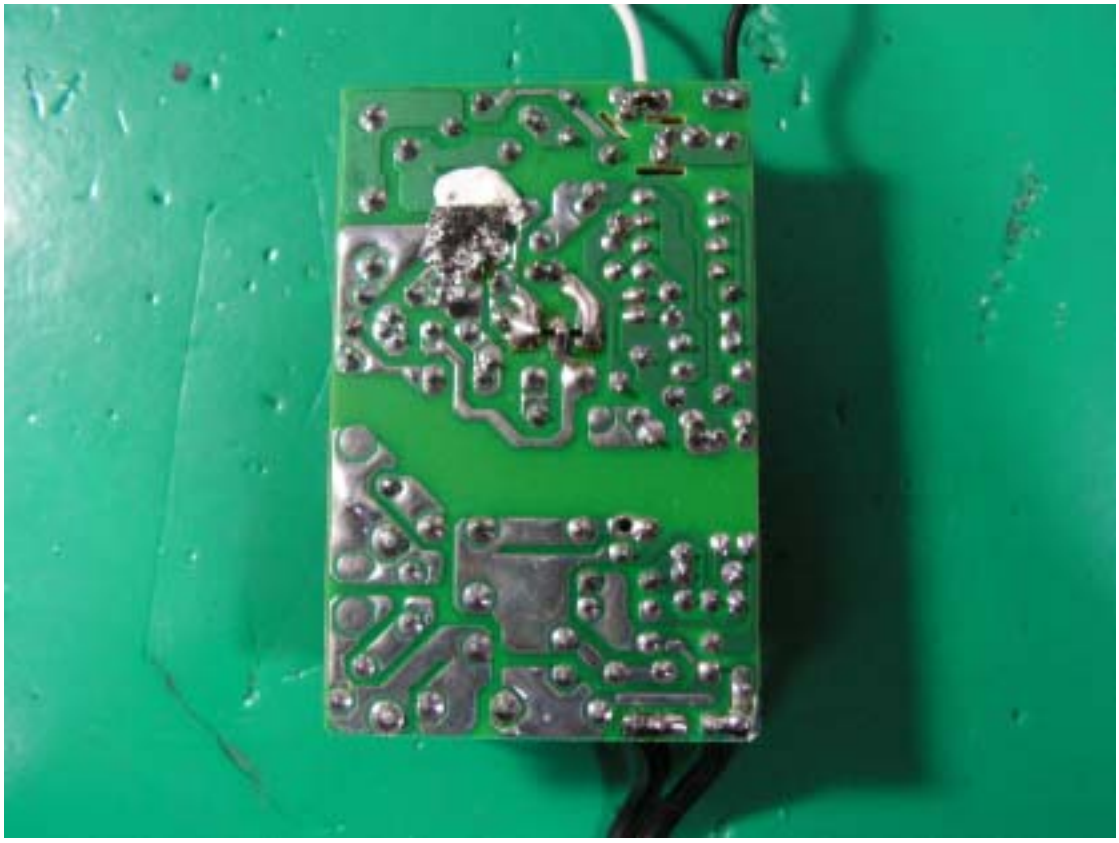
11.
12.

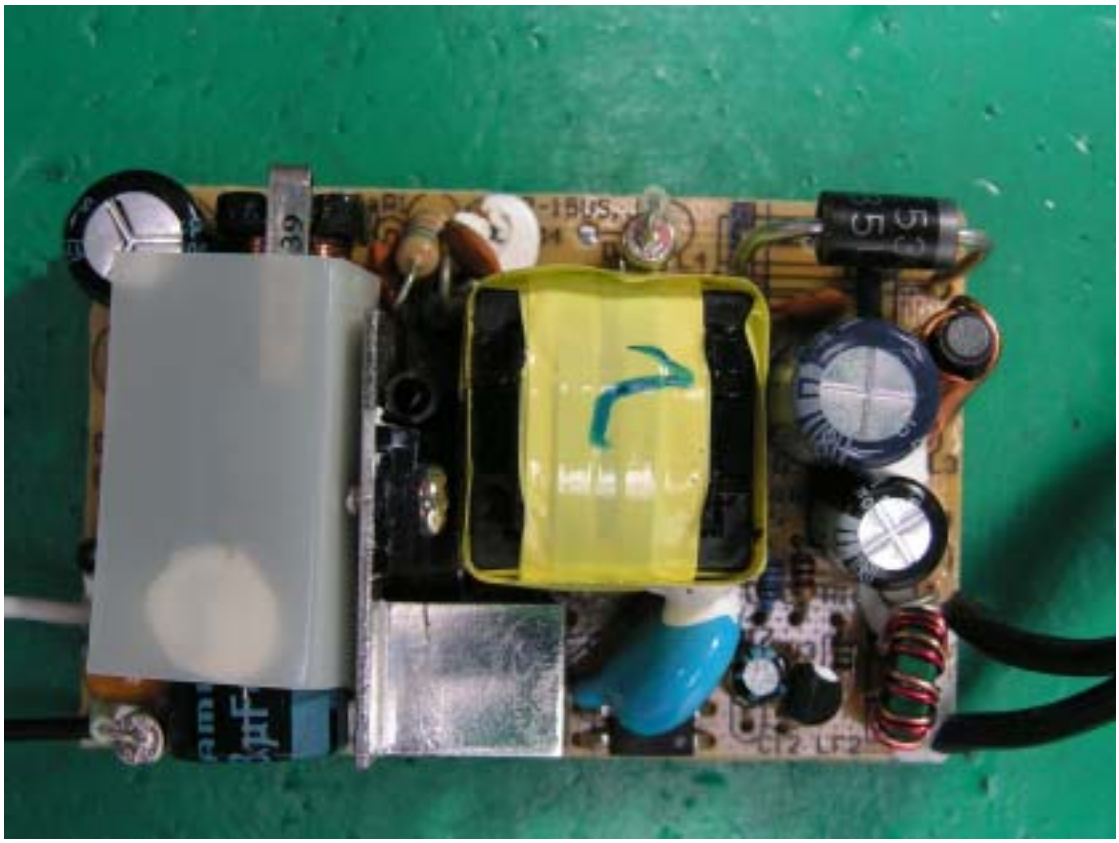


13.
14.



15.
16.





17. LABEL HERE

11. EMI REDUCTION METHOD DURING COMPLIANCE TESTING

No modification was made during testing.

Appendix A

Circuit (Block) Diagram

(Shall be added by Applicant)

Appendix B

User Manual

(Shall be added by Applicant)