Test Report

Product Name ： Super G Wireless Router
Model No. ： AR430W
FCC ID. ： RRK-AR430W

Applicant ： Alpha Networks Inc.
Address ： No. 8, Li-Hsin VII Road, Science-Based Industrial Park, Hsin-Chu, Taiwan, R.O.C.

Date of Receipt ： 2006/12/19
Issued Date ： 2007/02/05
Report No. ： 071H018-RFUSP05V01

Test Report Certification

Issued Date : 2007/02/05
Report No. : 071H018-RFUSP05V01

QuieTek

Product Name	:	Super G Wireless Router
Applicant	:	Alpha Networks Inc.
Address	:	No. 8, Li-Hsin VII Road, Science-Based Industrial Park, Hsin-Chu, Taiwan, R.O.C.
Manufacturer	:	Alpha Networks Inc.
Model No.	:	AR430W
FCC ID.	:	RRK-AR430W
Rated Voltage	:	AC 120 V / 60 Hz
EUT Voltage	:	AC 120 V / 60 Hz
Trade Name	:	Airlink101
Applicable Standard	:	FCC CFR Title 47 Part 15 Subpart C Section 15.247: 2005
Test Result	:	Complied

The test results relate only to the samples tested.
The test report shall not be reproduced except in full without the written approval of QuieTek Corporation.

Documented By : Sandy Chuang
(Sandy Chuang)

Reviewed By : Sheena Huang
(Sheena Huang)

Approved By : Roy Wang
(Roy Wang)

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1. General Information

1.1. EUT Description

Product Name	Super G Wireless Router
Trade Name	Airlink101
Model No.	AR430W
Frequency Range	2412~2462MHz
Channel Number	11
Type of Modulation (IEEE 802.11b)	Direct Sequence Spread Spectrum (DSSS)
Type of Modulation (IEEE 802.11g)	Orthogonal Frequency Division Multiplexing (OFDM)
Data Speed (IEEE 802.11b)	1Mbps, 2Mbps, 5.5Mbps, 11Mbps
Data Speed (IEEE 802.11g)	6Mbps,9Mbps,12Mbps,18Mbps,24Mbps,36Mbps,48Mbps,54Mbps
Antenna Gain	2dBi
Channel Control	Auto
Antenna Type	Dipole

Component	
LAN Cable	Non-Shielded, 1.8m
Power Adapter	AMIGO, AM-1200800D I/P: AC 120~60 Hz, 30W O/P: DC 12V, 800mA Cable Out: Non-Shielded, 1.8m

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
001	2412 MHz	002	2417 MHz	003	2422 MHz	004	2427 MHz
005	2432 MHz	006	2437 MHz	007	2442 MHz	008	2447 MHz
009	2452 MHz	010	2457 MHz	011	2462 MHz		

Note:

1. This device is a Super G Wireless Router included a 2.4GHz receiving function, and 2.4GHz transmitting function.
2. 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.
3. Regards to the frequency band operation; the highest rate that was included the lowest、middle and highest frequency of channel were selected to perform the test, and then shown on this report.
4. This device is a composite device in accordance with Part 15 regulations. The function receiving was measured and made a test report that the report number is 071H018-RFUSP01V02 under Declaration of Conformity.

1.2. Operational Description

The EUT is capable of transferring data with a maximum wireless signal rate of up to 54Mbps* in the 2.4GHz frequency — the same wireless frequency as 802.11b. The EUT also offers four Ethernet ports to support multiple computers.

The advanced wireless technology built into the EUT offers data transfer speeds with a maximum wireless signal rate of up to 54Mbps* through its wireless channels allowing streaming videos and other high bandwidth applications, such as online gaming events, to operate without the hassle of Ethernet cables. The ability to use high bandwidth applications also makes streaming real-time programs more enjoyable and more efficient.

The device delivers Internet sharing, local area network connectivity and security in a single device. The EUT has a 10/100 WAN port for connection to Cable or xDSL modem. The four-port 10/100 Ethernet switch along with the built-in 802.11b/g wireless access point provides network connectivity to multiple machines in the Local Area Network (LAN).

1.3. Test Mode

QuieTek has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

Pre-Test Mode	
EMI	Mode 1: Transmit
Final Test Mode	
TX	Mode 1: Transmit

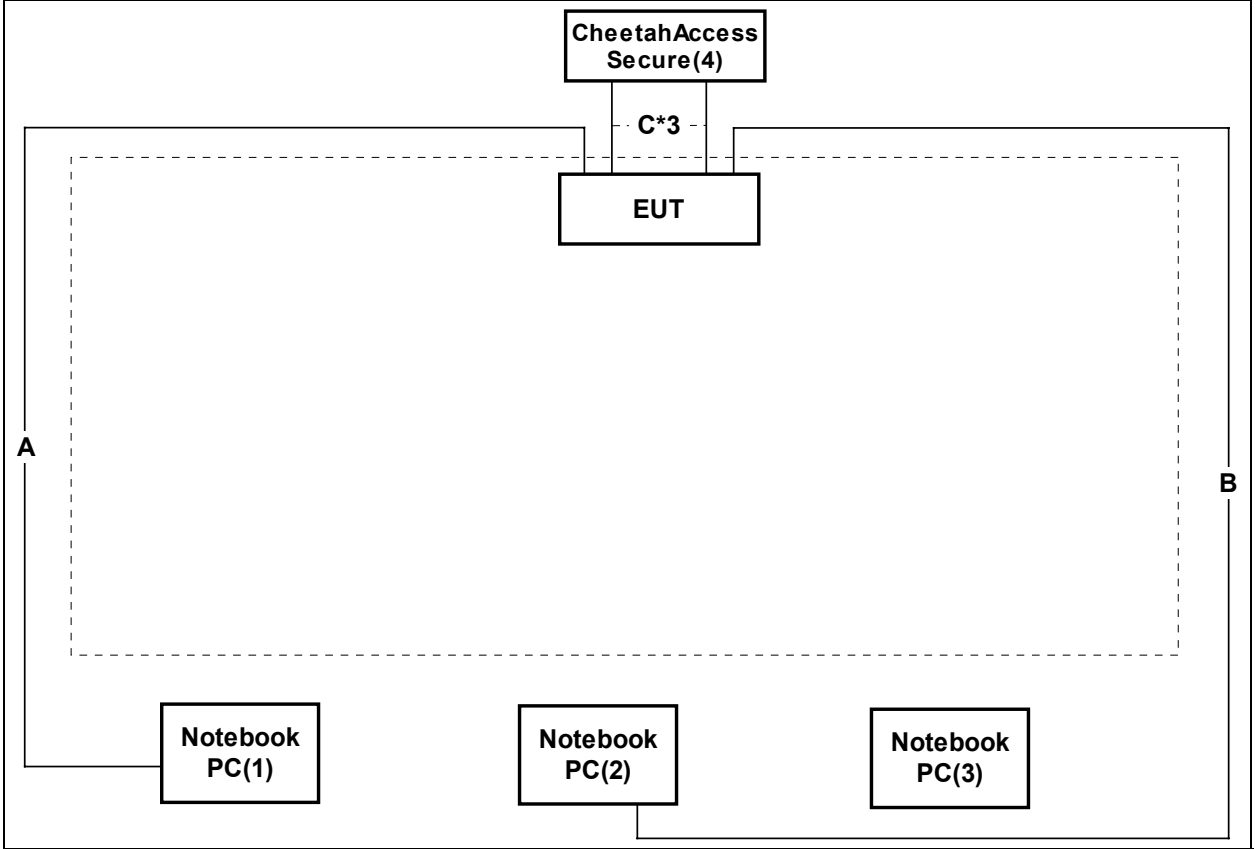
1.4. Tested System Details

The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

Product		Manufacturer	Model No.	Serial No.	FCC ID	Power Cord
1	Notebook PC	DELL	LATITUDE D400	N/A	DoC	Non-Shielded, 1.7m, one ferrite core bonded
2	Notebook PC	DELL	LATITUDE D400	N/A	DoC	Non-Shielded, 1.7m, one ferrite core bonded
3	Notebook PC	DELL	Latitude 610	N/A	DoC	Non-Shielded, 1.7m, one ferrite core bonded
4	CheetahAccess Secure	Accton	AC-IG1104	N/A	DoC	Non-Shielded, 1.8m

1.5. Configuration of tested System

Connection Diagram



Signal Cable Type		Signal cable Description
A	LAN Cable	Non-Shielded, 10m
B	LAN Cable	Non-Shielded, 10m
C	LAN Cable	Non-Shielded, 1.2m, 3 PCS

1.6. EUT Exercise Software

1	Setup the EUT and simulators as shown on 1.5
2	Turn on the power of all equipment.
3	Notebook PC reads data from disk.
4	Data will be transmitting through EUT.
5	The transmitting status will be shown on the monitor.
6	Repeat the above procedure (4) to (5)

1.7. Test Facility

Ambient conditions in the laboratory:

Items	Test Item	Required (IEC 68-1)	Actual
Temperature (°C)	FCC PART 15 C 15.207 Conducted Emission	15 - 35	20
Humidity (%RH)		25 - 75	50
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Band Edge (DSSS)	15 - 35	25
Humidity (%RH)		25 - 75	50
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Occupied Bandwidth (DSSS)	15 - 35	25
Humidity (%RH)		25 - 75	50
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Peak Power Output (DSSS)	15 - 35	25
Humidity (%RH)		25 - 75	50
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Power Density (DSSS)	15 - 35	25
Humidity (%RH)		25 - 75	50
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Radiated Emission (DSSS)	15 - 35	25
Humidity (%RH)		25 - 75	50
Barometric pressure (mbar)		860 - 1060	950-1000

Site Description:

January 24, 2005 File on
Federal Communications Commission
Laboratory Division
7435 Oakland Mills Road
Columbia, MD 21046
Registration Number: 365520

Accredited by CNLA
Accreditation Number: 1313
Effective through: September 27, 2007

1313

ILAC MRA

Accredited by NVLAP
NVLAP Lab Code: 200347-0
Effective through: September 30, 2006

NVLAP Lab Code : 200347-0

Site Name: Quietek Corporation

Site Address: No.75-1, Wang-Yeh Valley, Yung-Hsing,
Chiung-Lin, Hsin-Chu County,
Taiwan, R.O.C.
TEL : 886-3-592-8858 / FAX : 886-3-592-8859
E-Mail : service@quietek.com

2. Peak Power Output

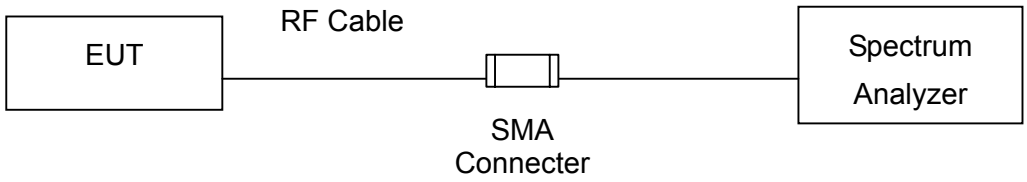
2.1. Test Equipment

The following test equipment are used during the test:

Item	Equipment	Manufacturer	Model No. / Serial No.	Last Cal.
1	Spectrum Analyzer	R&S	FSP/ 100005	Oct., 2005
2	No.1 OATS			Sep., 2006

Note: All equipment upon which need to calibrated are with calibration period of 1 year.

2.2. Test Setup



2.3. Limits

The maximum peak power shall be less 1 Watt.

2.4. Test Specification

According to FCC CFR Title 47 Part 15 Subpart C Section 15.247:2005

2.5. Uncertainty

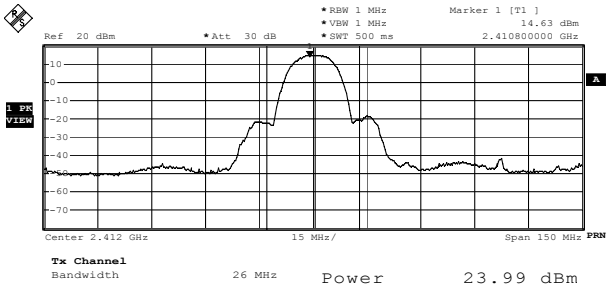
The measurement uncertainty is defined as ± 1.27 dB.

2.6. Test Result

Product	Super G Wireless Router		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2006/12/19	Test Site	No.1 OATS

IEEE 802.11b				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	23.99	1Watt= 30 dBm	Pass
6	2437	24.20	1Watt= 30 dBm	Pass
11	2462	24.84	1Watt= 30 dBm	Pass

Channel 1



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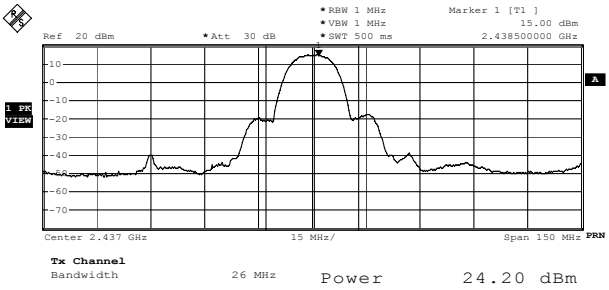
Channel 6



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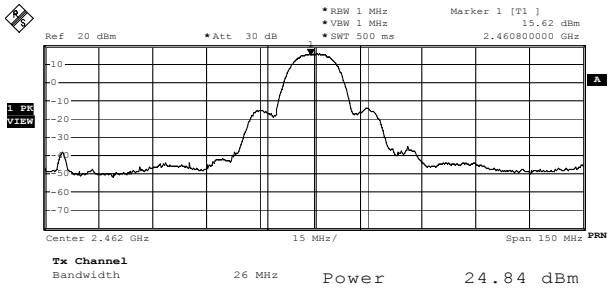
Channel 11



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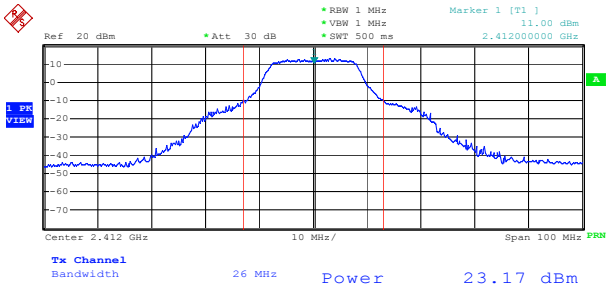
Product	Super G Wireless Router		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2007/01/19	Test Site	No.1 OATS

IEEE 802.11g				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	23.17	1Watt= 30 dBm	Pass
6	2437	22.89	1Watt= 30 dBm	Pass
11	2462	23.35	1Watt= 30 dBm	Pass

Channel 1



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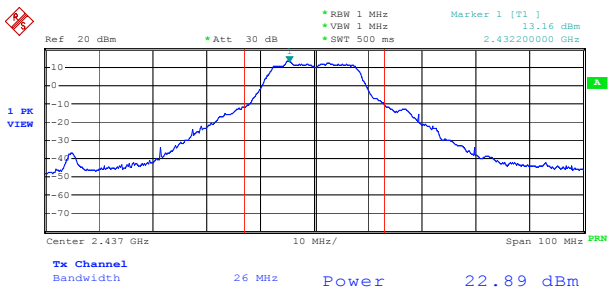
Channel 6



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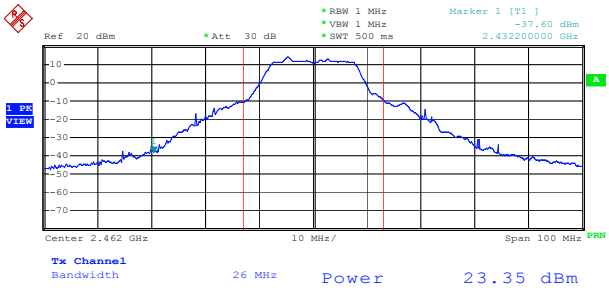
Channel 11



Date: 16.JAN.2007 13:25:02

3. Conducted Emission

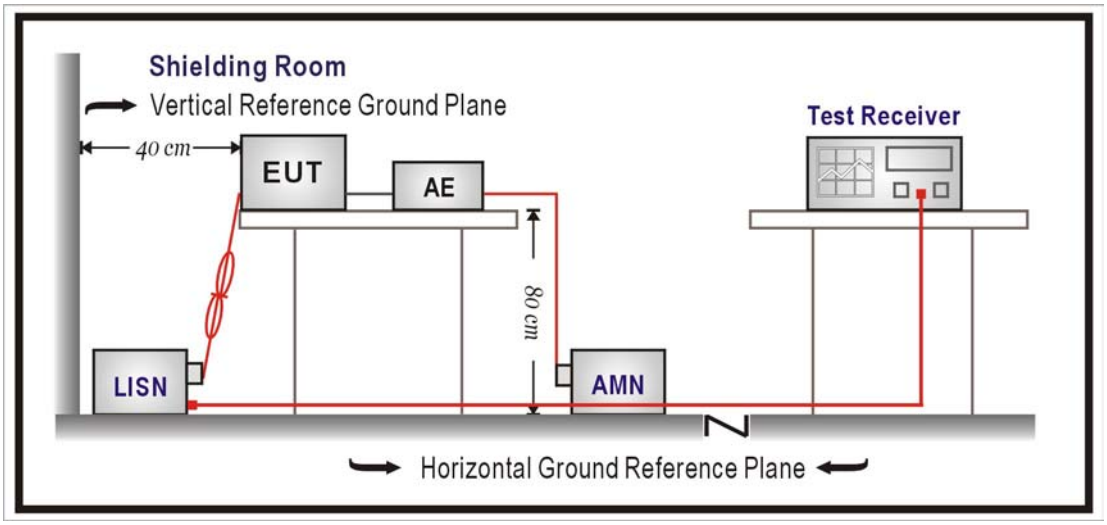
3.1. Test Equipment

The following test equipment are used during the test:

Item	Equipment	Manufacturer	Model No. / Serial No.	Last Cal.	Remark
1	Test Receiver	R & S	ESCS 30/825442/018	Sep., 2006	
2	Artificial Mains Network	R & S	ENV4200/848411/10	Feb., 2006	Peripherals
3	LISN	R & S	ESH3-Z5/825562/002	Feb., 2006	EUT
4	Pulse Limiter	R & S	ESH3-Z2/357.8810.52	Feb., 2006	
5	No.2 Shielded Room			N/A	

Note: All equipment upon which need to calibrated are with calibration period of 1 year.

3.2. Test Setup



3.3. Limits

FCC Part 15 Subpart C Paragraph 15.207 Limits (dBuV)		
Frequency MHz	QP	AV
0.15 - 0.50	66-56	56-46
0.50-5.0	56	46
5.0 - 30	60	50

Remarks : In the above table, the tighter limit applies at the band edges.

3.4. Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs.)
Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2003 on conducted measurement.
Conducted emissions were invested over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

3.5. Test Specification

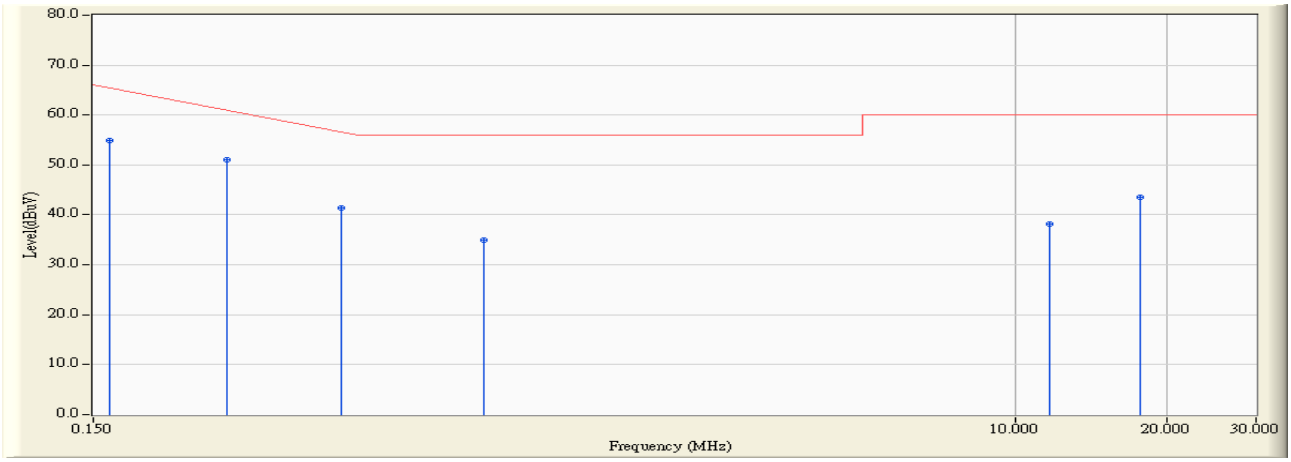
According to FCC Part 15 Subpart C Paragraph 15.207: 2005

3.6. Uncertainty

The measurement uncertainty is defined as ± 2.26 dB.

3.7. Test Result

Site : QuieTek Shielding Room2	Time : 2007/01/15 - 19:13
Limit : CISPR_B_00M_QP	Margin : 0
EUT : Super G Wireless Router	Probe : SR3_LISN(16A) - Line1
Power : AC 120V/60Hz	Note : TX-b

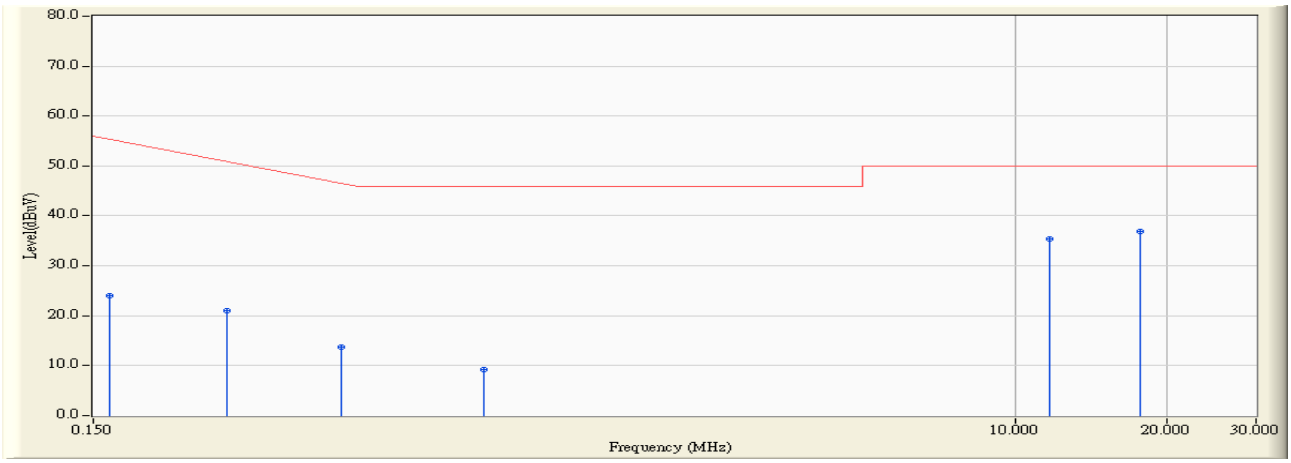


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.162	0.241	54.570	54.811	-10.846	65.657	QUASIPEAK
2		0.275	0.269	50.810	51.079	-11.350	62.429	QUASIPEAK
3		0.463	0.592	40.850	41.442	-15.615	57.057	QUASIPEAK
4		0.892	0.530	34.470	35.000	-21.000	56.000	QUASIPEAK
5		11.683	1.330	36.790	38.120	-21.880	60.000	QUASIPEAK
6		17.701	1.790	41.650	43.440	-16.560	60.000	QUASIPEAK

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : QuieTek Shielding Room2	Time : 2007/01/15 - 19:13
Limit : CISPR_B_00M_AV	Margin : 0
EUT : Super G Wireless Router	Probe : SR3_LISN(16A) - Line1
Power : AC 120V/60Hz	Note : TX-b

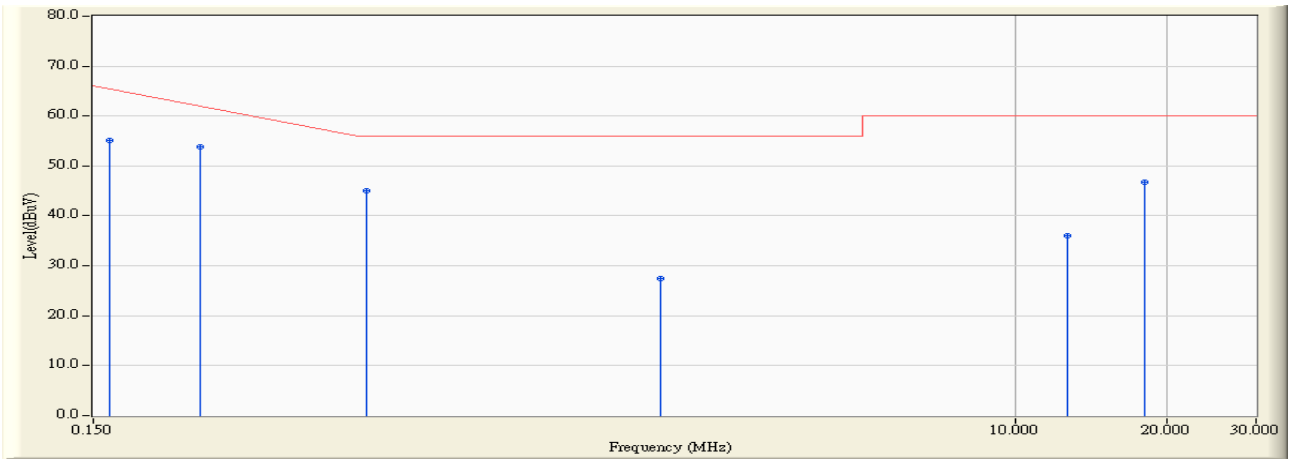


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.162	0.241	23.820	24.061	-31.596	55.657	AVERAGE
2		0.275	0.269	20.670	20.939	-31.490	52.429	AVERAGE
3		0.463	0.592	13.040	13.632	-33.425	47.057	AVERAGE
4		0.892	0.530	8.630	9.160	-36.840	46.000	AVERAGE
5		11.683	1.330	34.140	35.470	-14.530	50.000	AVERAGE
6	*	17.701	1.790	35.090	36.880	-13.120	50.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : QuieTek Shielding Room2	Time : 2007/01/15 - 19:21
Limit : CISPR_B_00M_QP	Margin : 0
EUT : Super G Wireless Router	Probe : SR3_LISN(16A) - Line2
Power : AC 120V/60Hz	Note : TX-b

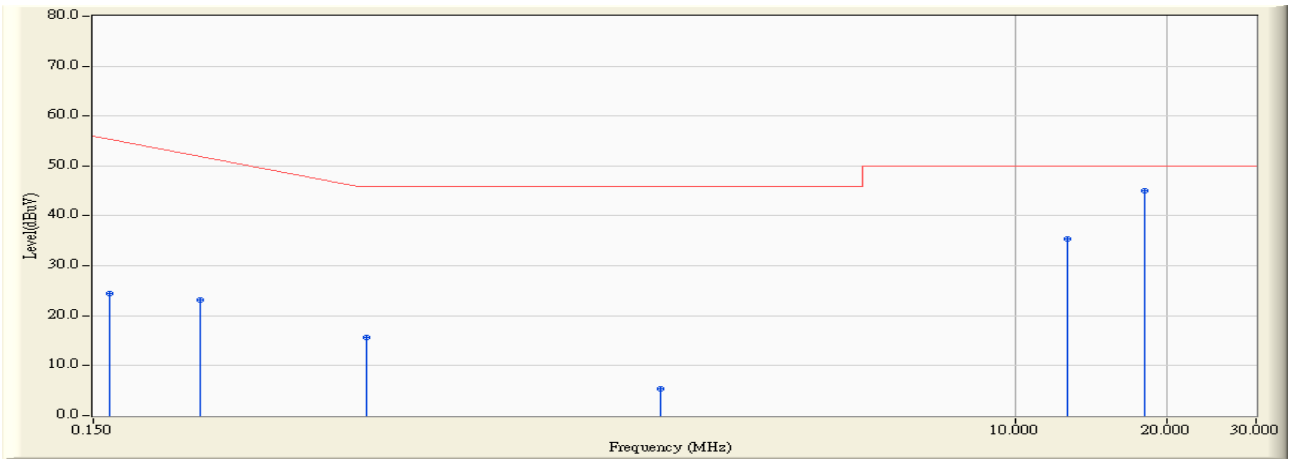


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.162	0.141	54.930	55.071	-10.586	65.657	QUASIPEAK
2	*	0.244	0.160	53.610	53.770	-9.544	63.314	QUASIPEAK
3		0.521	0.210	44.830	45.040	-10.960	56.000	QUASIPEAK
4		1.990	0.290	27.120	27.410	-28.590	56.000	QUASIPEAK
5		12.738	0.794	35.330	36.124	-23.876	60.000	QUASIPEAK
6		18.049	0.890	45.940	46.830	-13.170	60.000	QUASIPEAK

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : QuieTek Shielding Room2	Time : 2007/01/15 - 19:21
Limit : CISPR_B_00M_AV	Margin : 0
EUT : Super G Wireless Router	Probe : SR3_LISN(16A) - Line2
Power : AC 120V/60Hz	Note : TX-b

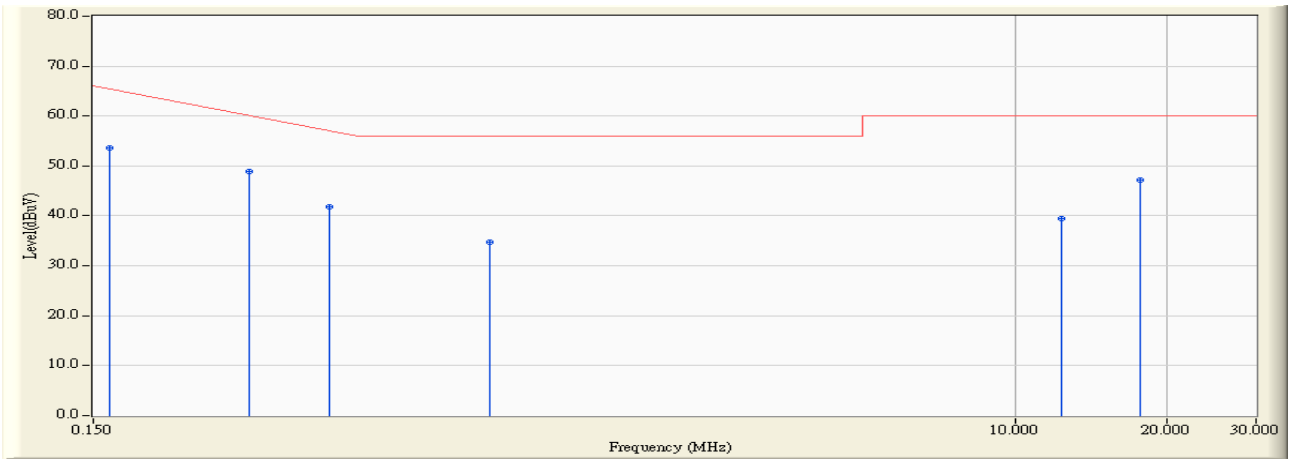


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.162	0.141	24.260	24.401	-31.256	55.657	AVERAGE
2		0.244	0.160	23.110	23.270	-30.044	53.314	AVERAGE
3		0.521	0.210	15.390	15.600	-30.400	46.000	AVERAGE
4		1.990	0.290	4.980	5.270	-40.730	46.000	AVERAGE
5		12.738	0.794	34.690	35.484	-14.516	50.000	AVERAGE
6	*	18.049	0.890	44.130	45.020	-4.980	50.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : QuieTek Shielding Room2	Time : 2007/01/15 - 19:26
Limit : CISPR_B_00M_QP	Margin : 0
EUT : Super G Wireless Router	Probe : SR3_LISN(16A) - Line1
Power : AC 120V/60Hz	Note : TX-g

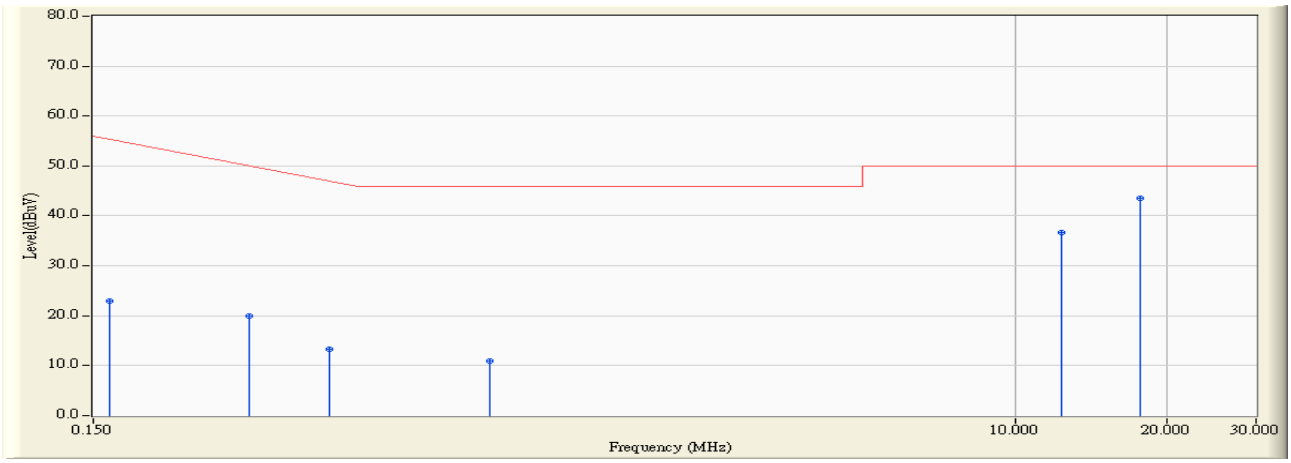


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.162	0.241	53.360	53.601	-12.056	65.657	QUASIPEAK
2		0.306	0.279	48.670	48.949	-12.594	61.543	QUASIPEAK
3		0.439	0.614	41.180	41.794	-15.949	57.743	QUASIPEAK
4		0.916	0.502	34.310	34.812	-21.188	56.000	QUASIPEAK
5		12.375	1.540	37.860	39.400	-20.600	60.000	QUASIPEAK
6		17.684	1.790	45.340	47.130	-12.870	60.000	QUASIPEAK

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : QuieTek Shielding Room2	Time : 2007/01/15 - 19:26
Limit : CISPR_B_00M_AV	Margin : 0
EUT : Super G Wireless Router	Probe : SR3_LISN(16A) - Line1
Power : AC 120V/60Hz	Note : TX-g

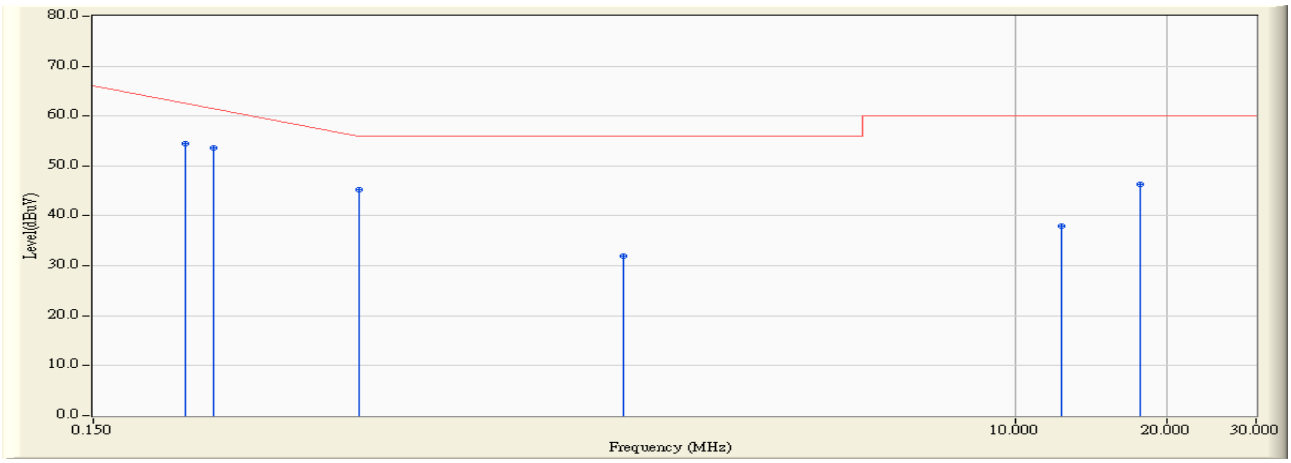


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.162	0.241	22.720	22.961	-32.696	55.657	AVERAGE
2		0.306	0.279	19.740	20.019	-31.524	51.543	AVERAGE
3		0.439	0.614	12.670	13.284	-34.459	47.743	AVERAGE
4		0.916	0.502	10.400	10.902	-35.098	46.000	AVERAGE
5		12.375	1.540	35.120	36.660	-13.340	50.000	AVERAGE
6	*	17.684	1.790	41.790	43.580	-6.420	50.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : QuieTek Shielding Room2	Time : 2007/01/15 - 19:31
Limit : CISPR_B_00M_QP	Margin : 0
EUT : Super G Wireless Router	Probe : SR3_LISN(16A) - Line2
Power : AC 120V/60Hz	Note : TX-g

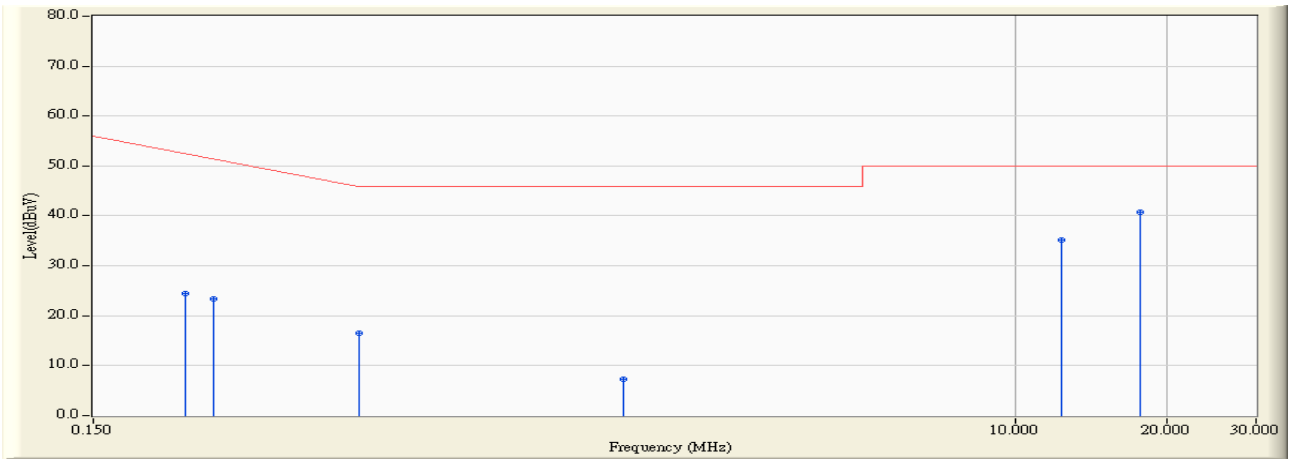


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.228	0.160	54.280	54.440	-9.331	63.771	QUASIPEAK
2		0.259	0.163	53.390	53.553	-9.333	62.886	QUASIPEAK
3		0.502	0.210	45.050	45.260	-10.740	56.000	QUASIPEAK
4		1.677	0.270	31.790	32.060	-23.940	56.000	QUASIPEAK
5		12.377	0.790	37.190	37.980	-22.020	60.000	QUASIPEAK
6		17.676	0.890	45.380	46.270	-13.730	60.000	QUASIPEAK

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : QuieTek Shielding Room2	Time : 2007/01/15 - 19:31
Limit : CISPR_B_00M_AV	Margin : 0
EUT : Super G Wireless Router	Probe : SR3_LISN(16A) - Line2
Power : AC 120V/60Hz	Note : TX-g



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.228	0.160	24.380	24.540	-29.231	53.771	AVERAGE
2		0.259	0.163	23.190	23.353	-29.533	52.886	AVERAGE
3		0.502	0.210	16.210	16.420	-29.580	46.000	AVERAGE
4		1.677	0.270	7.080	7.350	-38.650	46.000	AVERAGE
5		12.377	0.790	34.390	35.180	-14.820	50.000	AVERAGE
6	*	17.676	0.890	39.890	40.780	-9.220	50.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

3.8. Test Photo

Test Mode ： Mode 1: Transmit
Description： Front View of Conducted Emission Test Setup

Test Mode ： Mode 1: Transmit
Description： Back View of Conducted Emission Test Setup

4. Radiated Emission

4.1. Test Equipment

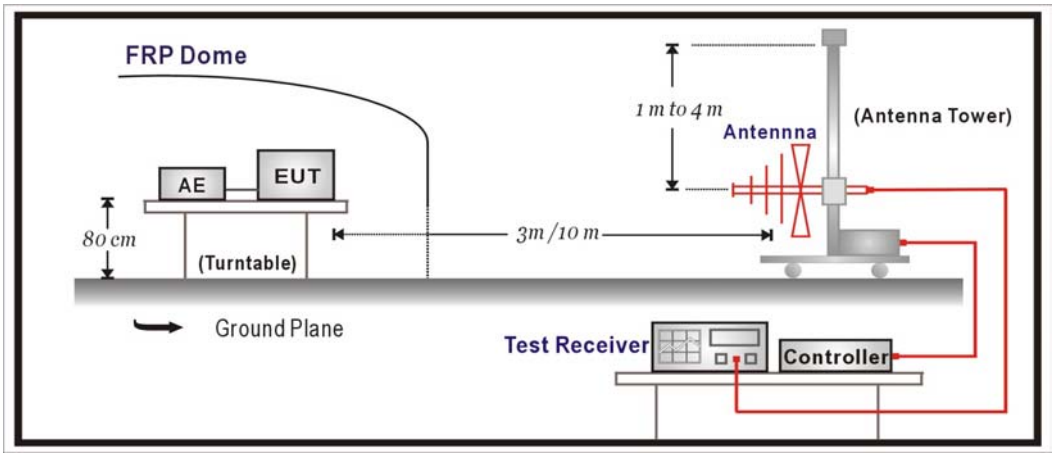
The following test equipment are used during the test:

Item	Equipment		Manufacturer	Model No. / Serial No.	Last Cal.
1	X	Test Receiver	R & S	ESCS 30 / 825442/017	Jan., 2007
2	X	Spectrum Analyzer	Advantest	R3261C / 81720266	N/A
3	X	Pre-Amplifier	HP	8447D / 2944A09276	N/A
4	X	Bilog Antenna	Chase	CBL6112B / 2455	Sep., 2006
5	X	Spectrum Analyzer	R & S	FSP40 / 100005	Aug., 2006
6	X	Pre-Amplifier	HP	8449B / 3008A01123	Feb., 2006
7	X	Horn Antenna	Schwarzbeck	BBHA 9120D / BBHA9120D312	Jul., 2006
8	No.1 OATS				Sep., 2006

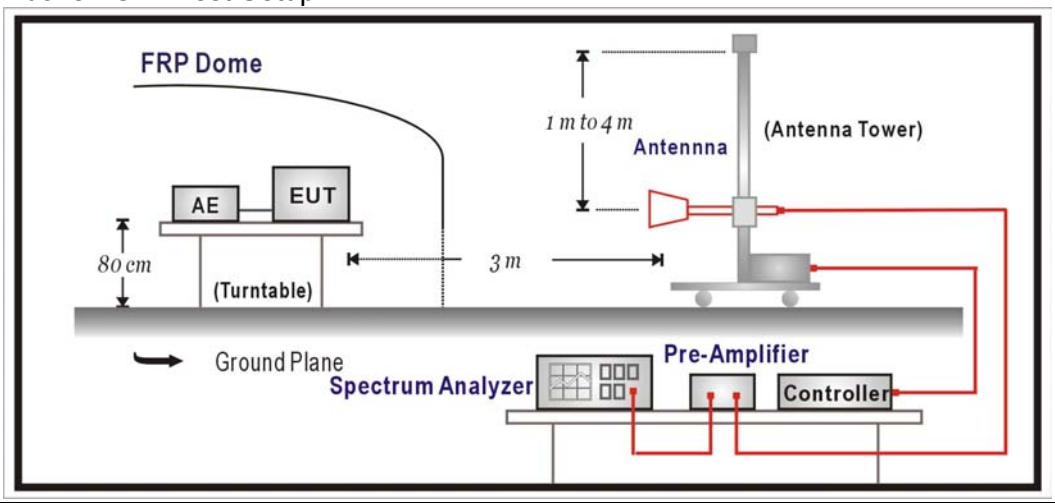
Note: 1. All equipments that need to calibrate are with calibration period of 1 year.
2. “N/A” Ca1.Date is used to Pre-test, not final test.

4.2. Test Setup

Under 1GHz Test Setup:



Above 1GHz Test Setup:



4.3. Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

FCC Part 15 Subpart C Paragraph 15.209 Limits		
Frequency MHz	uV/m	dBuV/m
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

Remarks : 1. RF Voltage (dBuV) = 20 log RF Voltage (uV)
2. In the Above Table, the tighter limit applies at the band edges.
3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

4.4. Test Procedure

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 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 C63.4:2003 on radiated measurement.
On any frequency or frequencies below or equal to 1000 MHz, the limits shown are based on measuring equipment employing a quasi-peak detector function and on any frequency or frequencies above 1000 MHz the radiated limits shown are based upon the use of measurement instrumentation employing an average detector function. When average radiated emission measurement are included emission measurement below 1000 MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit. The bandwidth below 1GHz setting on the field strength meter is 120 kHz and above 1GHz is 1MHz.

4.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2005

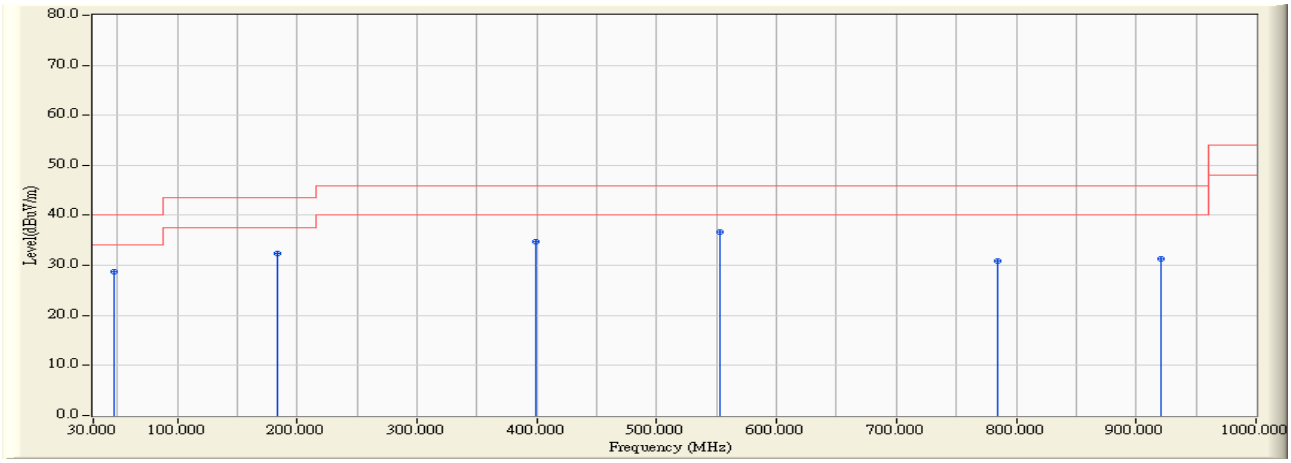
4.6. Uncertainty

The measurement uncertainty
30MHz～1GHz as ±3.19dB
1GHz～26.5Ghz as ±3.9dB

4.7. Test Result

30MHz-1GHz Spurious:

Site : Site 1	Time : 2007/01/22 - 09:45
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT : Super G Wireless Router	Probe : FCC_RF_30-1G(200605) - HORIZONTAL
Power : AC 120V/60Hz	Note : TX-b

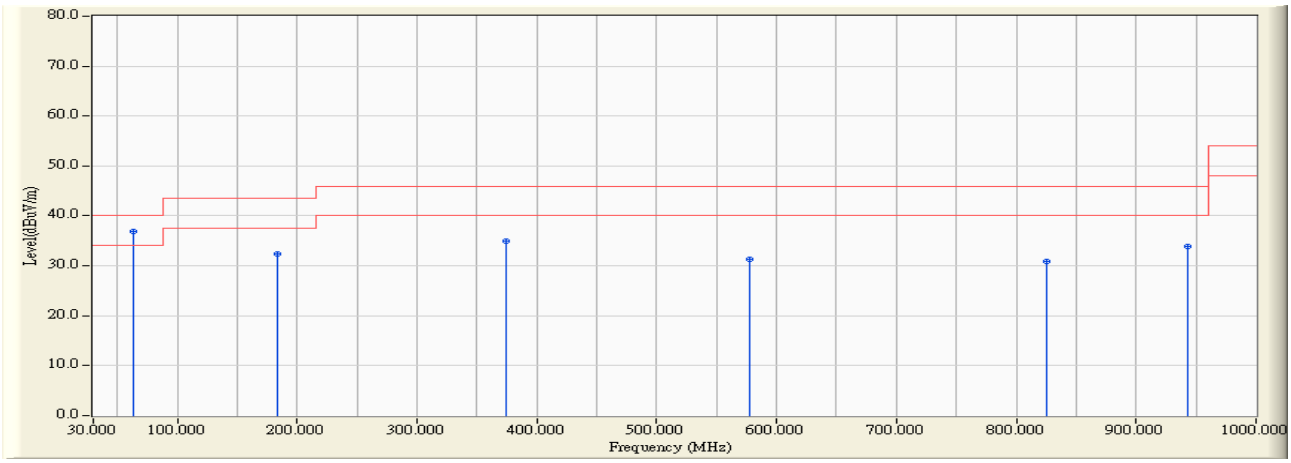


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1		47.495	-10.329	39.119	28.790	-11.210	40.000	PEAK	0.000	0.000
2		183.567	-16.116	48.499	32.383	-11.117	43.500	PEAK	0.000	0.000
3		399.339	1.121	33.662	34.783	-11.217	46.000	PEAK	0.000	0.000
4	*	552.906	2.928	33.712	36.640	-9.360	46.000	PEAK	0.000	0.000
5		784.228	4.058	26.832	30.890	-15.110	46.000	PEAK	0.000	0.000
6		920.301	4.073	27.336	31.409	-14.591	46.000	PEAK	0.000	0.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : Site 1	Time : 2007/01/22 - 09:44
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT : Super G Wireless Router	Probe : FCC_RF_30-1G(200605) - VERTICAL
Power : AC 120V/60Hz	Note : TX-b



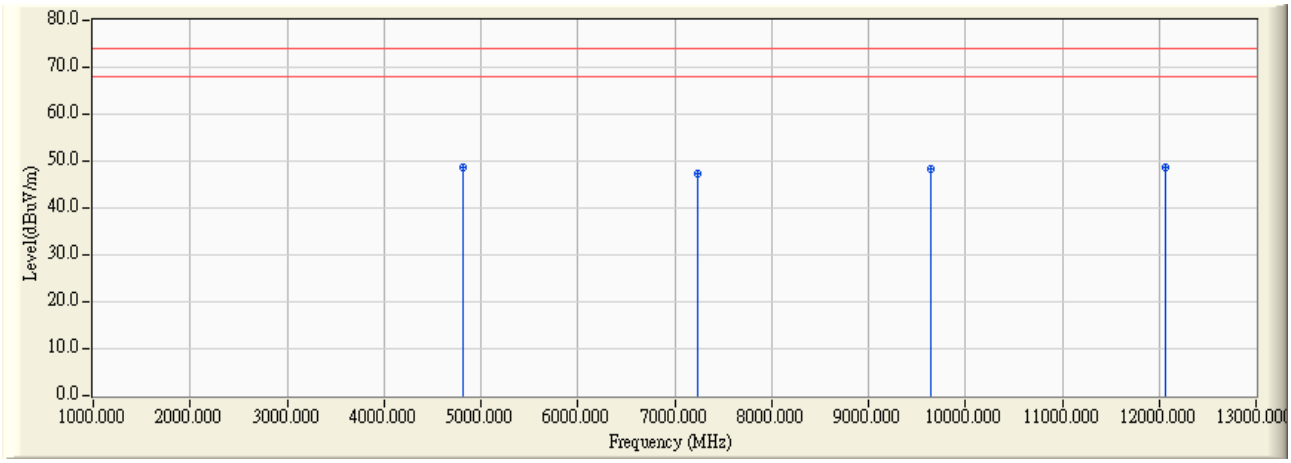
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1		0.000	-25.510	0.000	-25.510	-65.510	40.000	PEAK	0.000	0.000
2	*	63.046	-7.184	44.172	36.987	-3.013	40.000	PEAK	0.000	0.000
3		183.567	-8.488	40.792	32.304	-11.196	43.500	PEAK	0.000	0.000
4		374.068	-2.485	37.484	34.999	-11.001	46.000	PEAK	0.000	0.000
5		578.176	4.216	27.146	31.362	-14.638	46.000	PEAK	0.000	0.000
6		825.050	5.259	25.717	30.976	-15.024	46.000	PEAK	0.000	0.000
7		943.627	8.491	25.426	33.918	-12.082	46.000	PEAK	0.000	0.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Harmonic & Spurious:

Site : Site 1	Time : 2007/01/05 - 17:56
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
EUT : Super G Wireless Router	Probe : FCC_RF_1G-18G(2005-3) - HORIZONTAL
Power : AC 120V/60Hz	Note : TX-b CH1

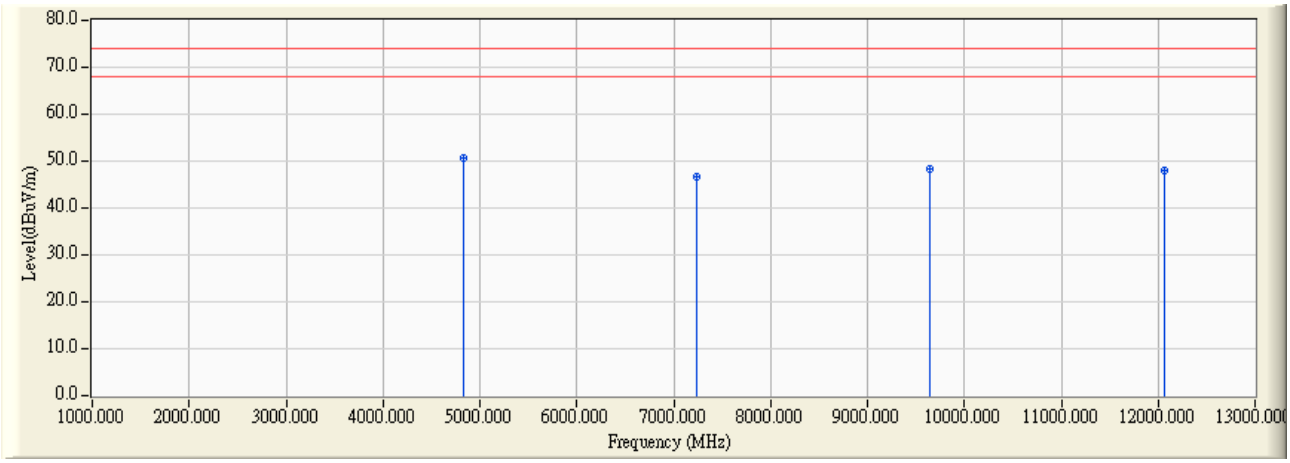


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	*	4823.590	3.730	44.850	48.580	-25.420	74.000	54.00	PEAK
2		7236.030	8.727	38.630	47.357	-26.643	74.000	54.00	PEAK
3		9648.400	12.707	35.750	48.457	-25.543	74.000	54.00	PEAK
4		12059.590	15.023	33.480	48.502	-25.498	74.000	54.00	PEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied

Site : Site 1	Time : 2007/01/05 - 18:09
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
EUT : Super G Wireless Router	Probe : FCC_RF_1G-18G(2005-3) - VERTICAL
Power : AC 120V/60Hz	Note : TX-b CH1

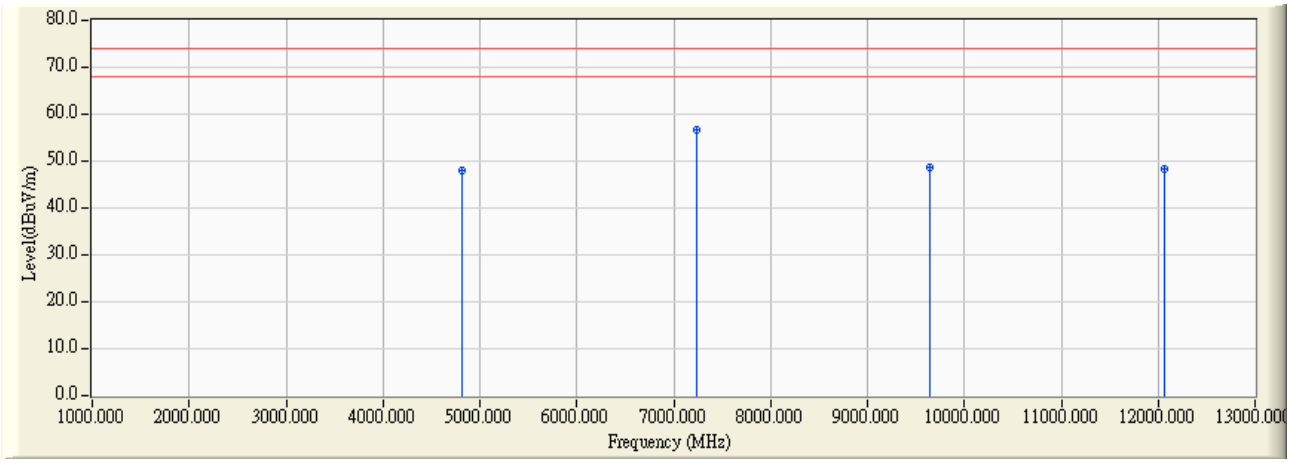


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	*	4824.030	1.981	48.580	50.561	-23.439	74.000	54.00	PEAK
2		7232.400	8.722	37.980	46.702	-27.298	74.000	54.00	PEAK
3		9648.030	12.707	35.540	48.247	-25.753	74.000	54.00	PEAK
4		12060.000	15.057	32.960	48.017	-25.983	74.000	54.00	PEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied

Site : Site 1	Time : 2007/01/05 - 20:31
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
EUT : Super G Wireless Router	Probe : FCC_RF_1G-18G(2005-3) - HORIZONTAL
Power : AC 120V/60Hz	Note : TX-g CH1

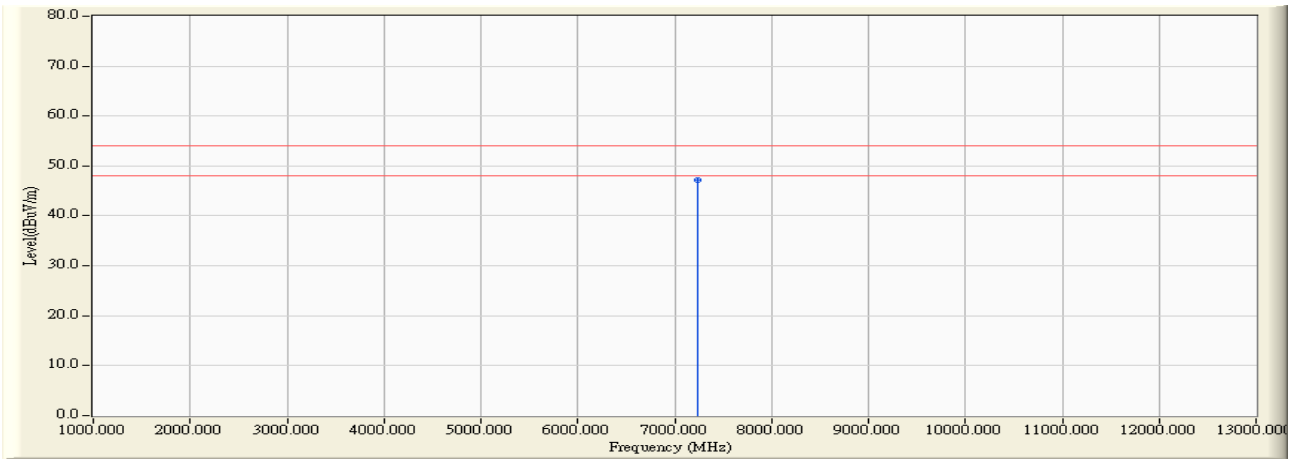


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1		4822.050	3.719	44.360	48.079	-25.921	74.000	54.00	PEAK
2	*	7232.240	8.722	47.810	56.532	-17.468	74.000	54.00	PEAK
3		9650.550	12.709	36.090	48.799	-25.201	74.000	54.00	PEAK
4		12060.500	15.100	33.320	48.419	-25.581	74.000	54.00	PEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied

Site : Site 1	Time : 2007/01/17 - 11:00
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
EUT : Super G Wireless Router	Probe : FCC_RF_1G-18G(2005-3) - HORIZONTAL
Power : AC 120V/60Hz	Note : TX-g CH1

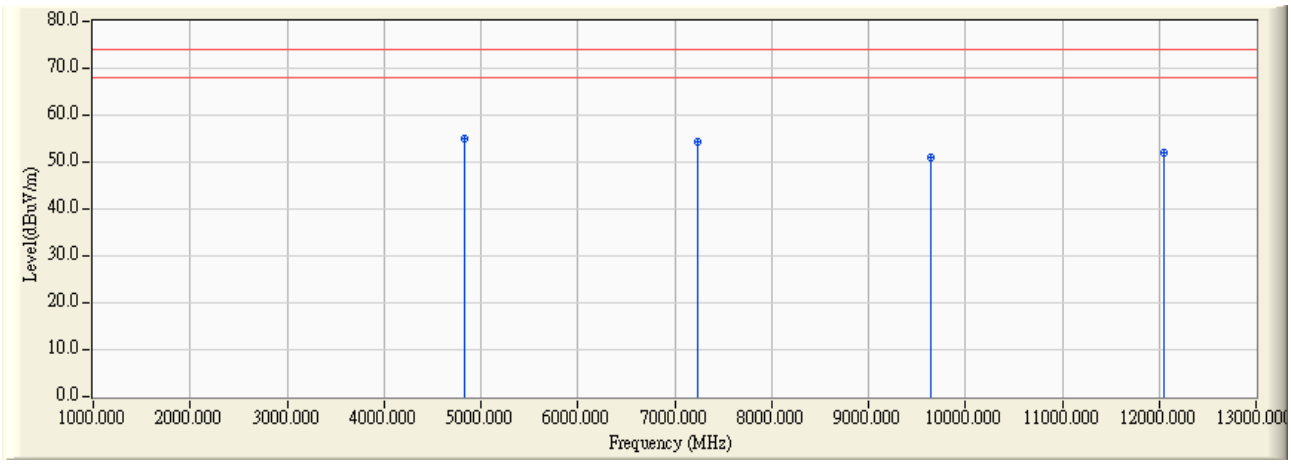


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	*	7236.750	8.727	38.460	47.187	-6.813	74.000	54.00	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied

Site : Site 1	Time : 2007/01/05 - 20:43
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
EUT : Super G Wireless Router	Probe : FCC_RF_1G-18G(2005-3) - VERTICAL
Power : AC 120V/60Hz	Note : TX-g CH1

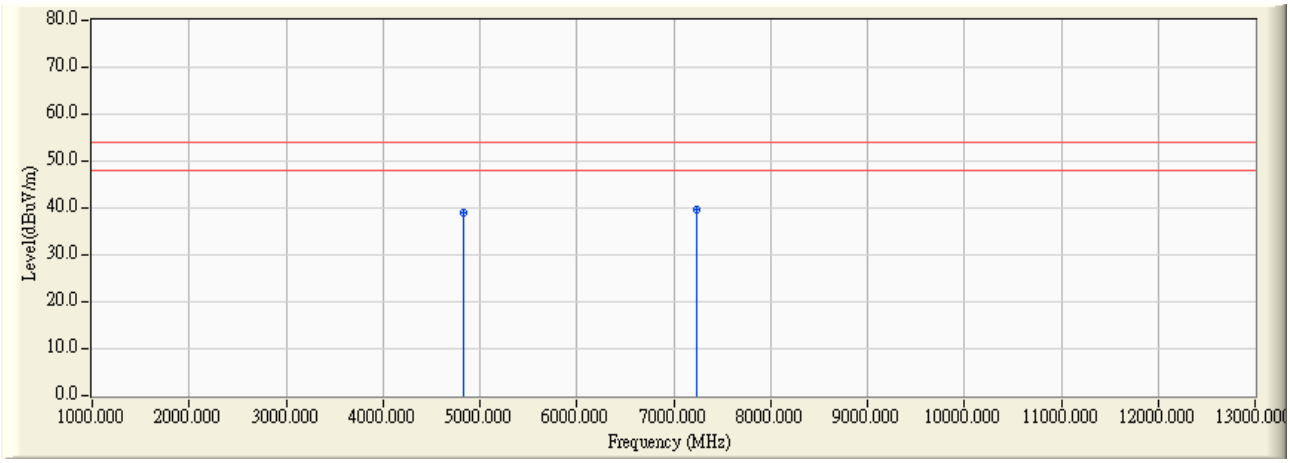


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	*	4825.050	1.990	53.140	55.130	-18.870	74.000	54.00	PEAK
2		7245.200	8.741	45.680	54.421	-19.579	74.000	54.00	PEAK
3		9651.200	14.709	36.200	50.909	-23.091	74.000	54.00	PEAK
4		12057.400	17.191	34.710	51.901	-22.099	74.000	54.00	PEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied

Site : Site 1	Time : 2007/01/05 - 20:45
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
EUT : Super G Wireless Router	Probe : FCC_RF_1G-18G(2005-3) - VERTICAL
Power : AC 120V/60Hz	Note : TX-g CH1

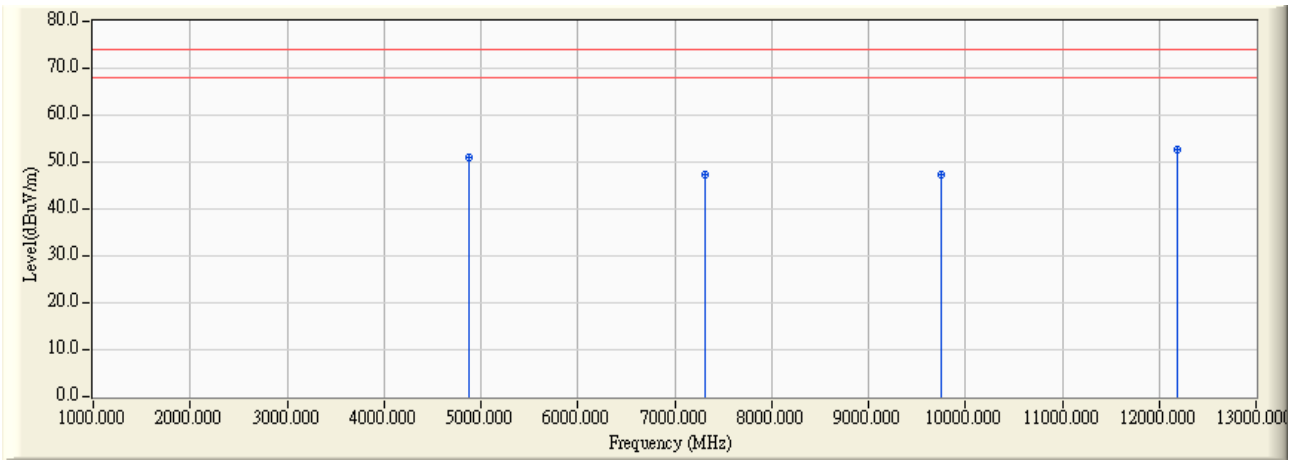


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1		4825.050	1.990	37.120	39.110	-14.890	74.000	54.00	AVERAGE
2	*	7245.000	8.740	30.780	39.521	-14.479	74.000	54.00	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied

Site : Site 1	Time : 2007/01/05 - 19:05
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
EUT : Super G Wireless Router	Probe : FCC_RF_1G-18G(2005-3) - HORIZONTAL
Power : AC 120V/60Hz	Note : TX-b CH6

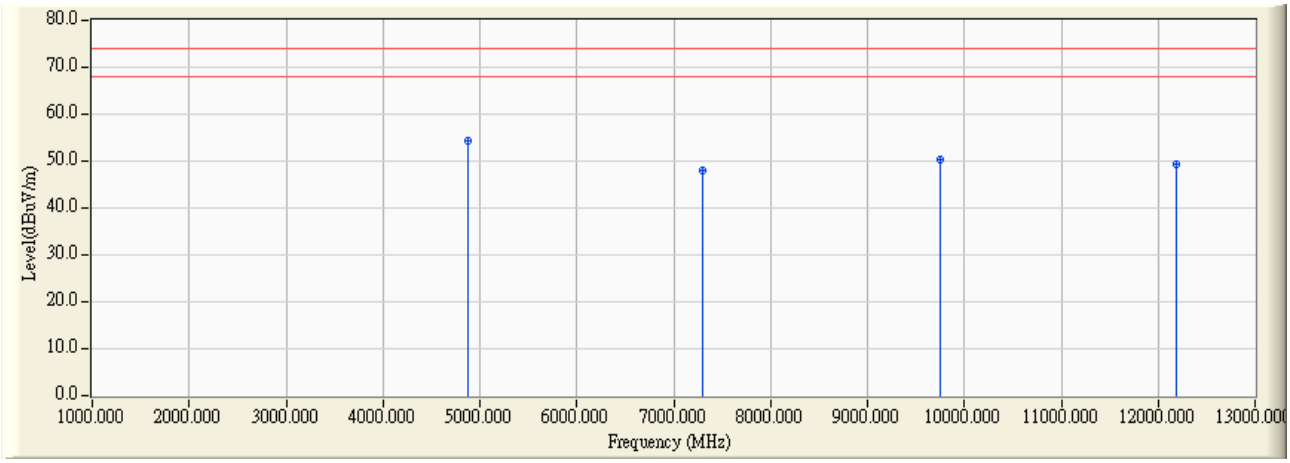


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1		4874.200	4.089	46.880	50.968	-23.032	74.000	54.00	PEAK
2		7307.500	8.841	38.350	47.191	-26.809	74.000	54.00	PEAK
3		9748.500	13.136	34.110	47.246	-26.754	74.000	54.00	PEAK
4	*	12192.970	18.738	33.850	52.588	-21.412	74.000	54.00	PEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied

Site : Site 1	Time : 2007/01/05 - 19:17
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
EUT : Super G Wireless Router	Probe : FCC_RF_1G-18G(2005-3) - VERTICAL
Power : AC 120V/60Hz	Note : TX-b CH6

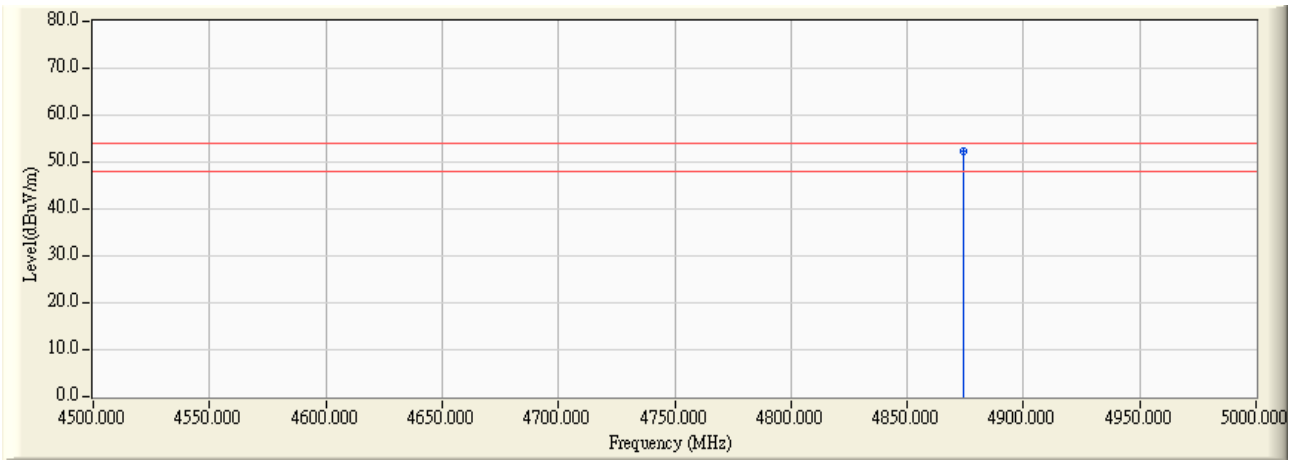


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	*	4873.800	2.432	51.810	54.242	-19.758	74.000	54.00	PEAK
2		7306.340	8.839	39.100	47.939	-26.061	74.000	54.00	PEAK
3		9748.200	15.134	35.100	50.234	-23.766	74.000	54.00	PEAK
4		12182.400	19.338	30.070	49.408	-24.592	74.000	54.00	PEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied

Site : Site 1	Time : 2007/01/05 - 19:59
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
EUT : Super G Wireless Router	Probe : FCC_RF_1G-18G(2005-3) - VERTICAL
Power : AC 120V/60Hz	Note : TX-b CH6

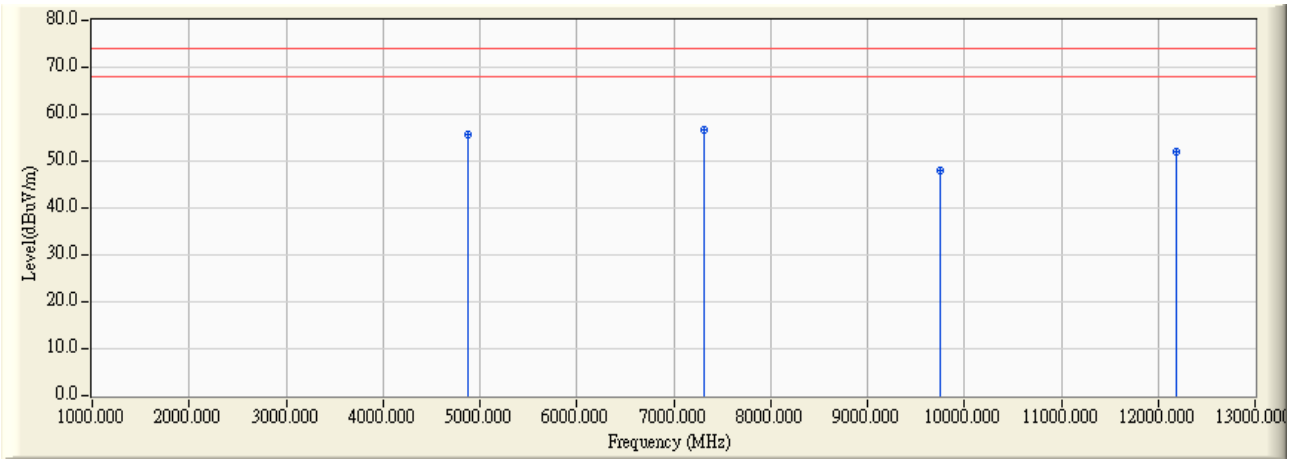


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	*	4874.000	2.434	49.840	52.274	-1.726	74.000	54.00	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied

Site : Site 1	Time : 2007/01/05 - 20:59
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
EUT : Super G Wireless Router	Probe : FCC_RF_1G-18G(2005-3) - HORIZONTAL
Power : AC 120V/60Hz	Note : TX-g CH6

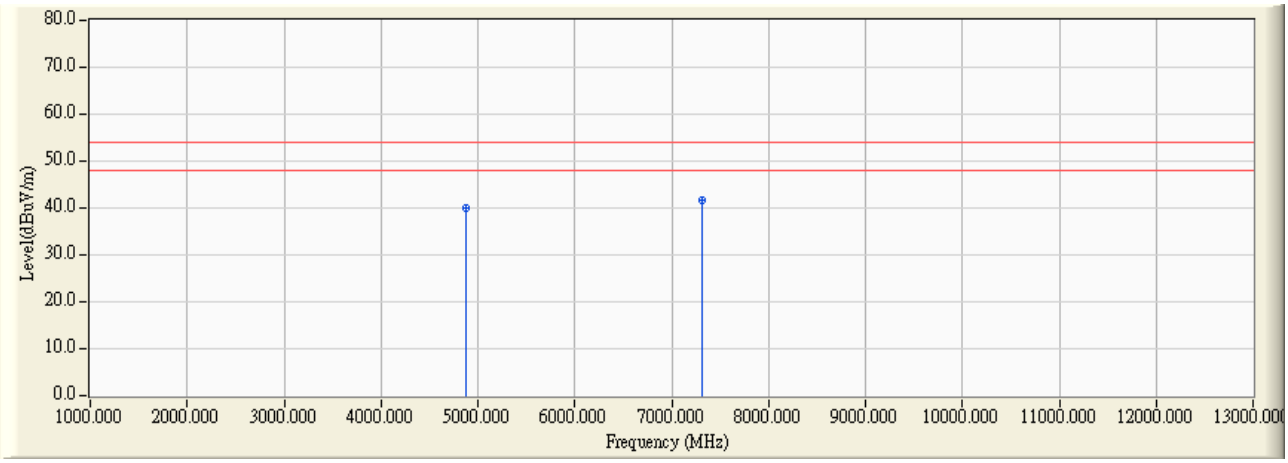


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1		4874.800	4.092	51.610	55.702	-18.298	74.000	54.00	PEAK
2	*	7312.350	8.846	47.690	56.536	-17.464	74.000	54.00	PEAK
3		9749.350	13.140	34.760	47.900	-26.100	74.000	54.00	PEAK
4		12186.950	18.965	33.030	51.994	-22.006	74.000	54.00	PEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied

Site : Site 1	Time : 2007/01/05 - 21:00
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
EUT : Super G Wireless Router	Probe : FCC_RF_1G-18G(2005-3) - HORIZONTAL
Power : AC 120V/60Hz	Note : TX-g CH6

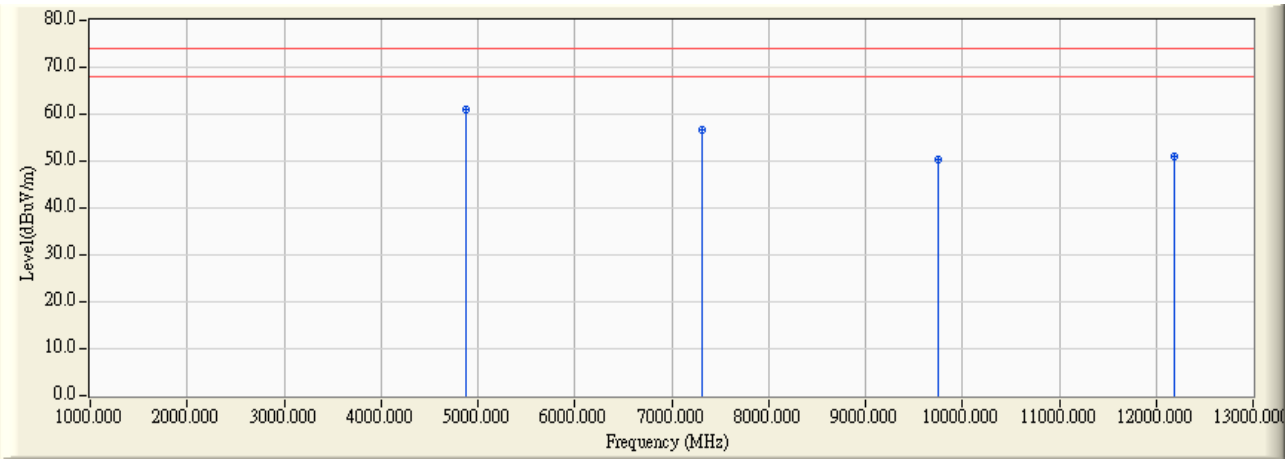


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1		4874.800	4.092	35.910	40.002	-13.998	74.000	54.00	AVERAGE
2	*	7312.350	8.846	32.760	41.606	-12.394	74.000	54.00	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied

Site : Site 1	Time : 2007/01/05 - 21:10
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
EUT : Super G Wireless Router	Probe : FCC_RF_1G-18G(2005-3) - VERTICAL
Power : AC 120V/60Hz	Note : TX-G CH6

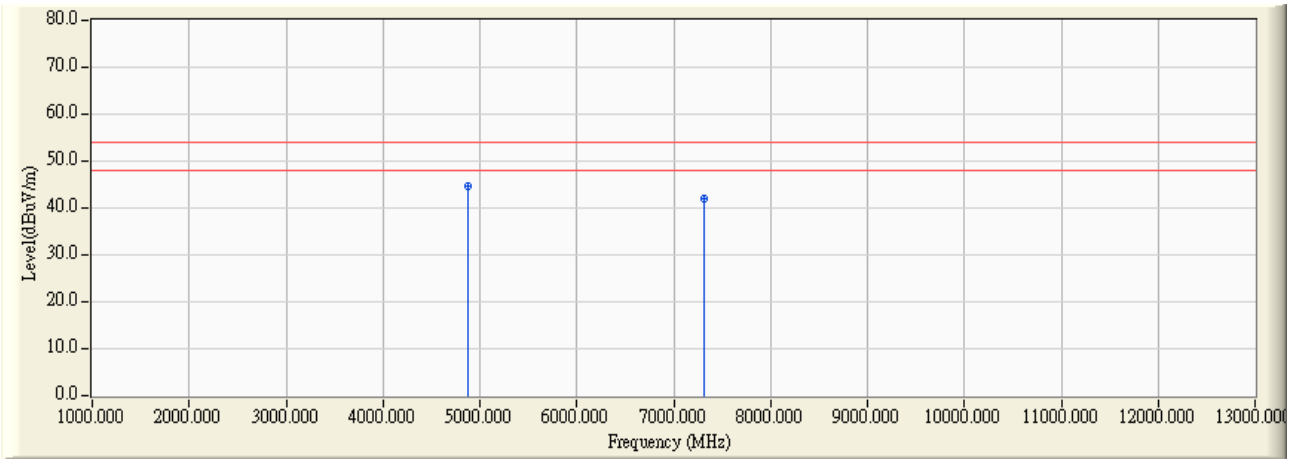


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	*	4874.750	2.440	58.600	61.040	-12.960	74.000	54.00	PEAK
2		7314.450	8.849	47.760	56.609	-17.391	74.000	54.00	PEAK
3		9748.750	15.137	35.200	50.337	-23.663	74.000	54.00	PEAK
4		12186.350	19.413	31.690	51.104	-22.896	74.000	54.00	PEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied

Site : Site 1	Time : 2007/01/05 - 21:11
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
EUT : Super G Wireless Router	Probe : FCC_RF_1G-18G(2005-3) - VERTICAL
Power : AC 120V/60Hz	Note : TX-G CH6

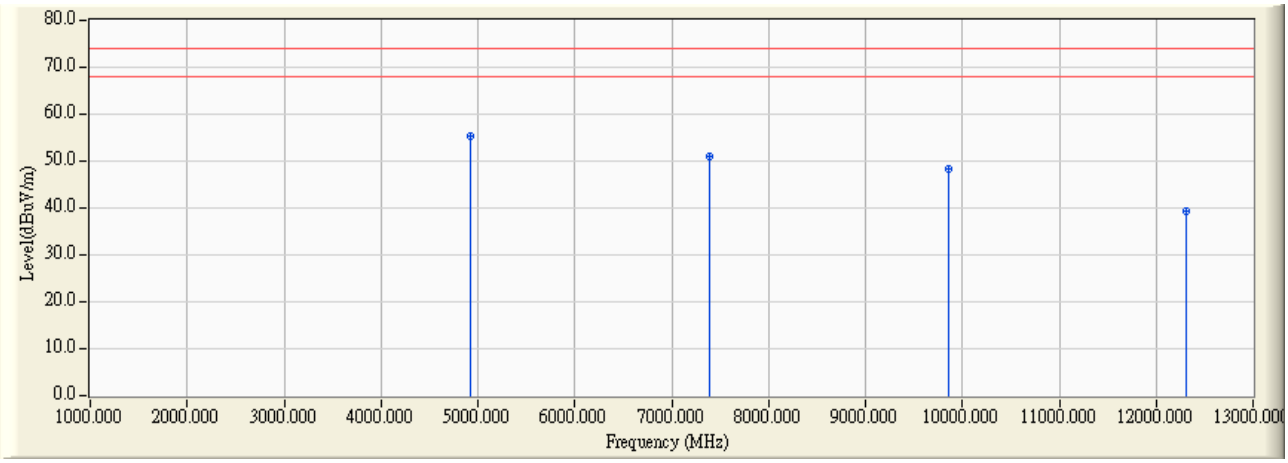


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	**Peak Limit (dBuV/m)**	**Average Limit (dBuV/m)**	Detector Type
1	*	4874.750	2.440	42.250	44.690	-9.310	74.000	54.00	AVERAGE
2		7314.500	8.849	33.020	41.869	-12.131	74.000	54.00	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied

Site : Site 1	Time : 2007/01/05 - 19:44
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
EUT : Super G Wireless Router	Probe : FCC_RF_1G-18G(2005-3) - HORIZONTAL
Power : AC 120V/60Hz	Note : TX-b CH11

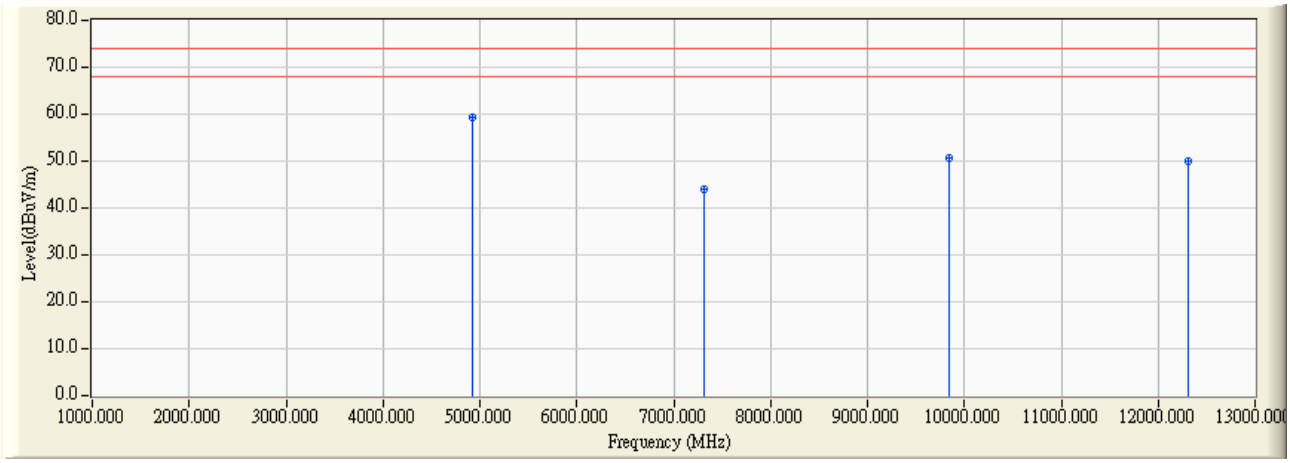


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	**Peak Limit (dBuV/m)**	**Average Limit (dBuV/m)**	Detector Type
1	*	4924.200	4.381	51.090	55.472	-18.528	74.000	54.00	PEAK
2		7384.350	8.942	42.180	51.121	-22.879	74.000	54.00	PEAK
3		9852.660	13.879	34.560	48.439	-25.561	74.000	54.00	PEAK
4		12312.250	6.795	32.480	39.274	-34.726	74.000	54.00	PEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied

Site : Site 1	Time : 2007/01/05 - 19:58
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
EUT : Super G Wireless Router	Probe : FCC_RF_1G-18G(2005-3) - VERTICAL
Power : AC 120V/60Hz	Note : TX-b CH11

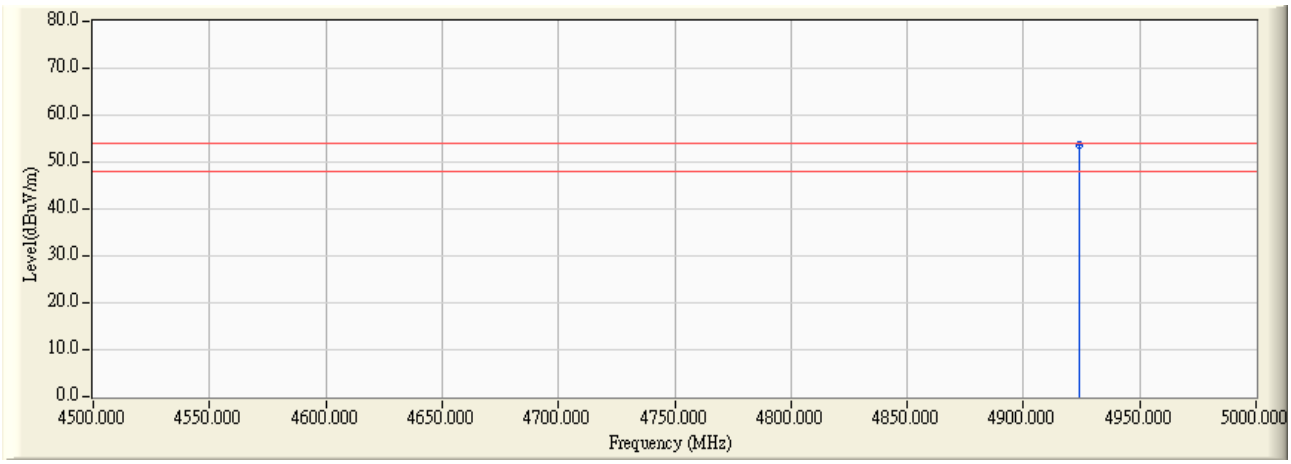


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	*	4924.200	2.835	56.350	59.185	-14.815	74.000	54.00	PEAK
2		7311.000	8.845	35.310	44.155	-29.845	74.000	54.00	PEAK
3		9848.200	15.355	35.380	50.735	-23.265	74.000	54.00	PEAK
4		12310.450	17.894	32.100	49.994	-24.006	74.000	54.00	PEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied

Site : Site 1	Time : 2007/01/05 - 20:00
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
EUT : Super G Wireless Router	Probe : FCC_RF_1G-18G(2005-3) - VERTICAL
Power : AC 120V/60Hz	Note : TX-b CH11

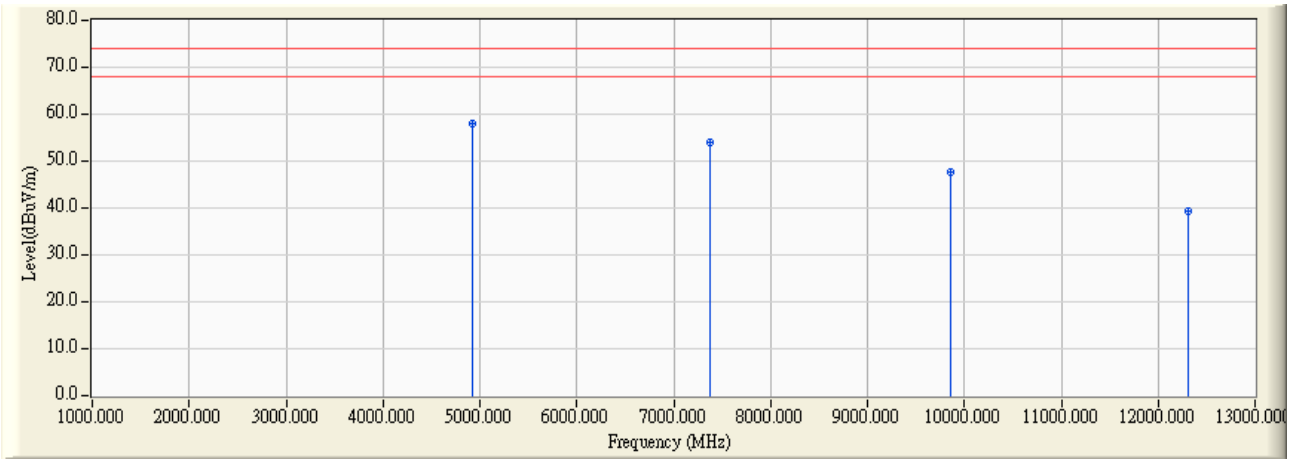


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	*	4924.200	2.835	50.770	53.605	-0.395	74.000	54.00	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied

Site : Site 1	Time : 2007/01/05 - 21:23
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
EUT : Super G Wireless Router	Probe : FCC_RF_1G-18G(2005-3) - HORIZONTAL
Power : AC 120V/60Hz	Note : TX-g CH11

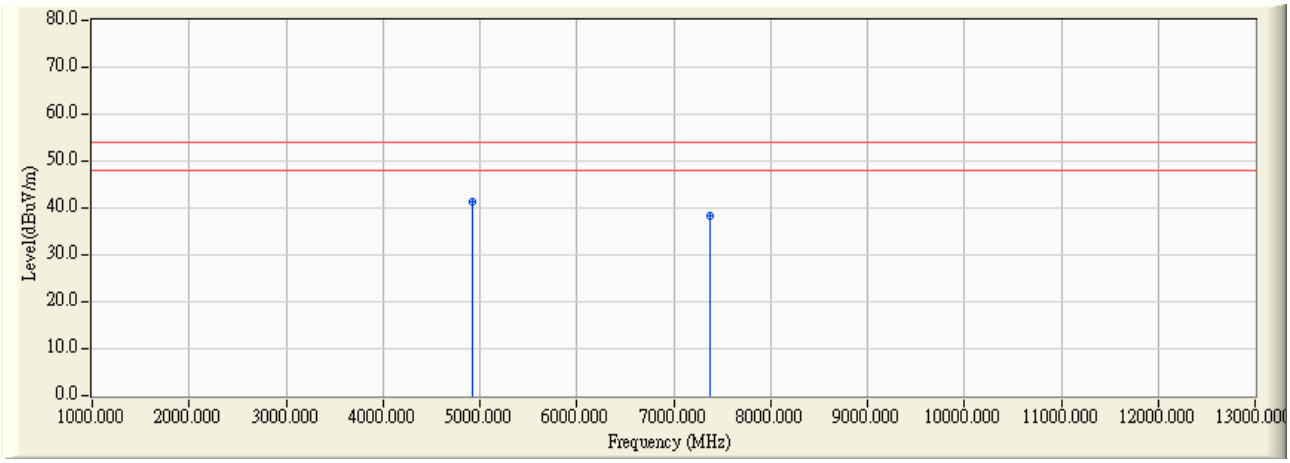


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	*	4925.350	4.385	53.600	57.985	-16.015	74.000	54.00	PEAK
2		7381.900	8.938	44.970	53.908	-20.092	74.000	54.00	PEAK
3		9852.400	13.876	33.890	47.767	-26.233	74.000	54.00	PEAK
4		12312.550	6.843	32.560	39.402	-34.598	74.000	54.00	PEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied

Site : Site 1	Time : 2007/01/05 - 21:24
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
EUT : Super G Wireless Router	Probe : FCC_RF_1G-18G(2005-3) - HORIZONTAL
Power : AC 120V/60Hz	Note : TX-g CH11

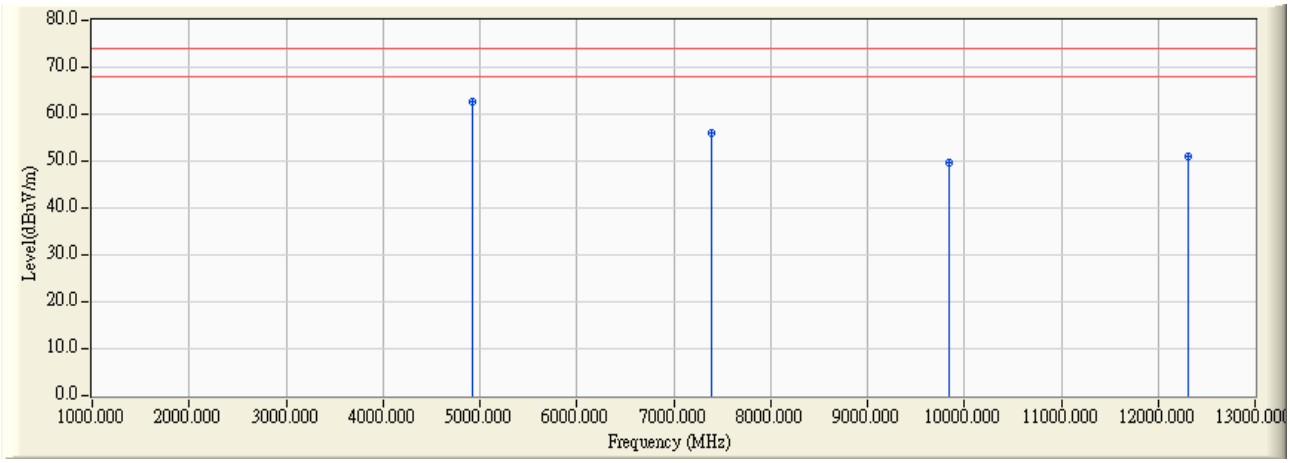


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	*	4925.350	4.385	37.110	41.495	-12.505	74.000	54.00	AVERAGE
2		7381.900	8.938	29.240	38.178	-15.822	74.000	54.00	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied

Site : Site 1	Time : 2007/01/05 - 21:35
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
EUT : Super G Wireless Router	Probe : FCC_RF_1G-18G(2005-3) - VERTICAL
Power : AC 120V/60Hz	Note : TX-g CH11

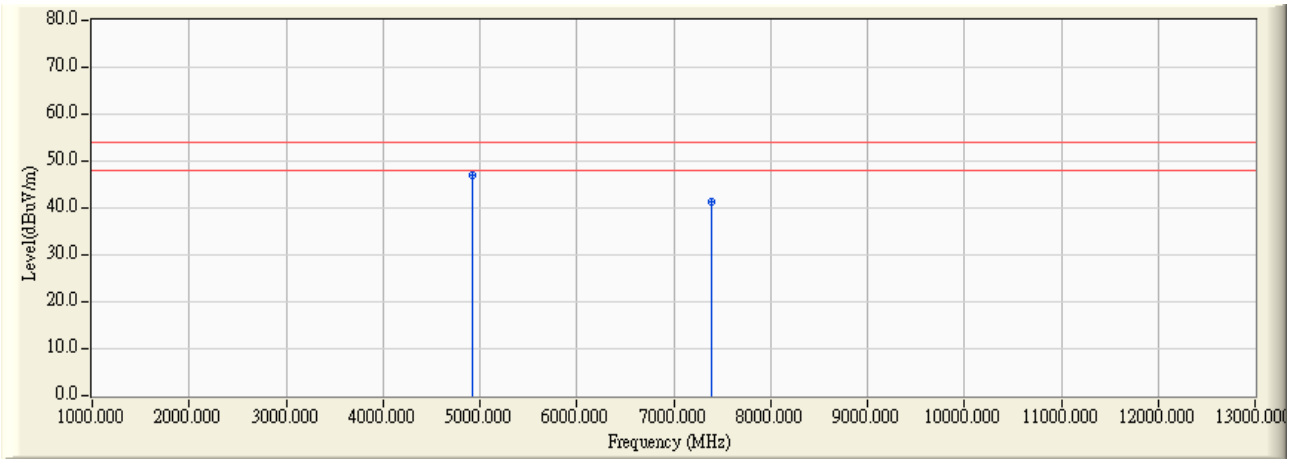


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	*	4925.950	2.844	59.750	62.594	-11.406	74.000	54.00	PEAK
2		7390.000	8.947	47.040	55.988	-18.012	74.000	54.00	PEAK
3		9847.850	15.355	34.390	49.745	-24.255	74.000	54.00	PEAK
4		12310.750	17.889	33.140	51.028	-22.972	74.000	54.00	PEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied

Site : Site 1	Time : 2007/01/05 - 21:35
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
EUT : Super G Wireless Router	Probe : FCC_RF_1G-18G(2005-3) - VERTICAL
Power : AC 120V/60Hz	Note : TX-g CH11



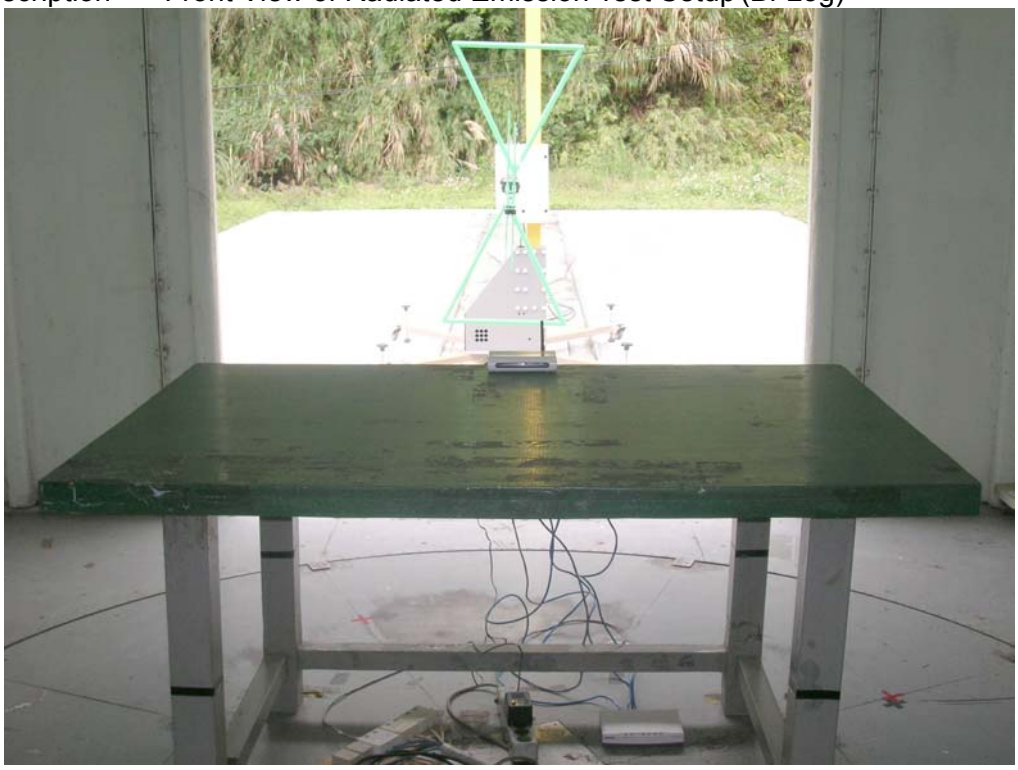
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	*	4925.950	2.844	44.070	46.914	-7.086	74.000	54.00	AVERAGE
2		7390.000	8.947	32.420	41.368	-12.632	74.000	54.00	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied

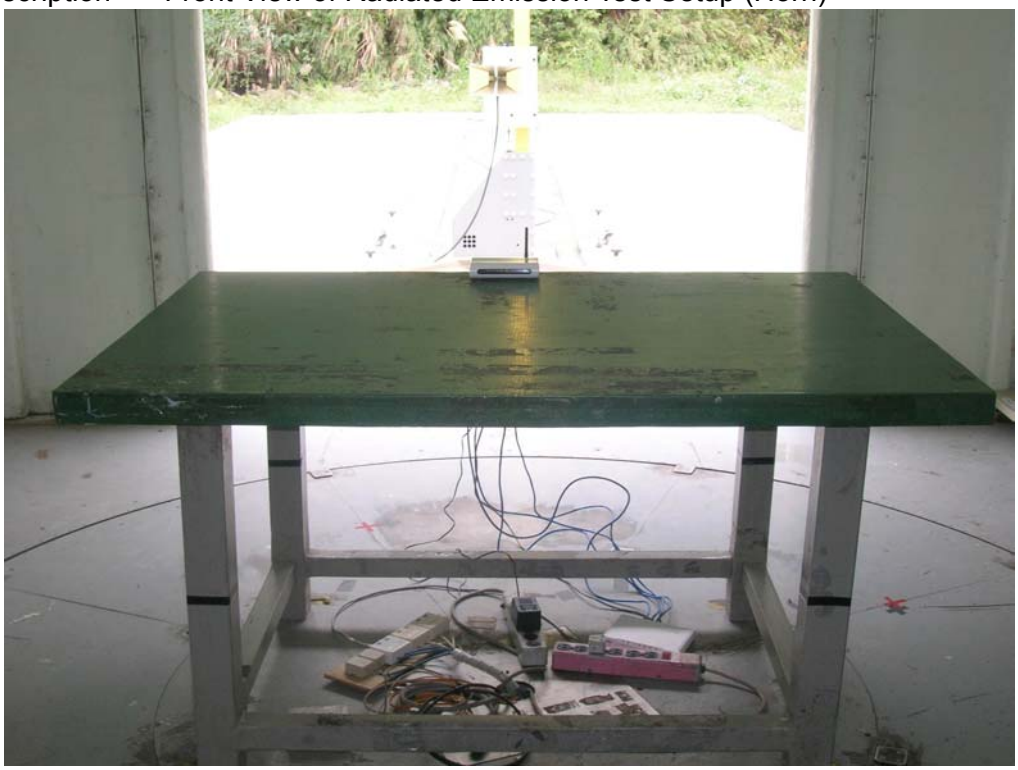
4.8. Test Photo

Test Mode ： Mode 1: Transmit
Description： Front View of Radiated Emission Test Setup (Bi-Log)



Test Mode ： Mode 1: Transmit
Description： Back View of Radiated Emission Test Setup (Bi-Log)

Test Mode ： Mode 1: Transmit
Description： Front View of Radiated Emission Test Setup (Horn)



5. Band Edge

5.1. Test Equipment

The following test equipment are used during the test:

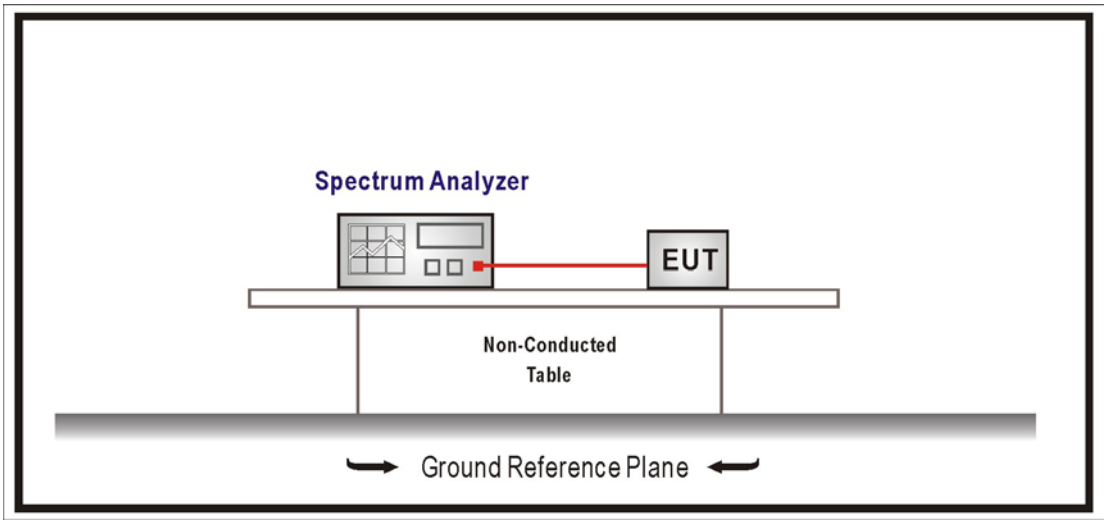
RF Conducted Measurement:					
Item	Equipment		Manufacturer	Model No. / Serial No.	Last Cal.
1	Spectrum Analyzer		R & S	FSP / 100561	Mar., 2006
2	No.1 OATS				Sep., 2006
RF Radiated Measurement:					
Item	Equipment		Manufacturer	Model No. / Serial No.	Last Cal.
1	X	Spectrum Analyzer	R & S	FSP40 / 100005	Aug., 2006
2	X	Pre-Amplifier	HP	8449B / 3008A01123	Feb., 2006
3		Loop Antenna	R & S	HFH2-Z2 / 833799/004	Sep., 2006
4		BiconiLog Antenna	Schwarzbeck	VULB 9166 / 1061	Sep., 2006
5		Bilog Antenna	Chase	CBL6112B / 2455	Sep., 2006
6	X	Horn Antenna	Schwarzbeck	BBHA 9120D / BBHA9120D312	Sep., 2006
7	No.1 OATS				Sep., 2006

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

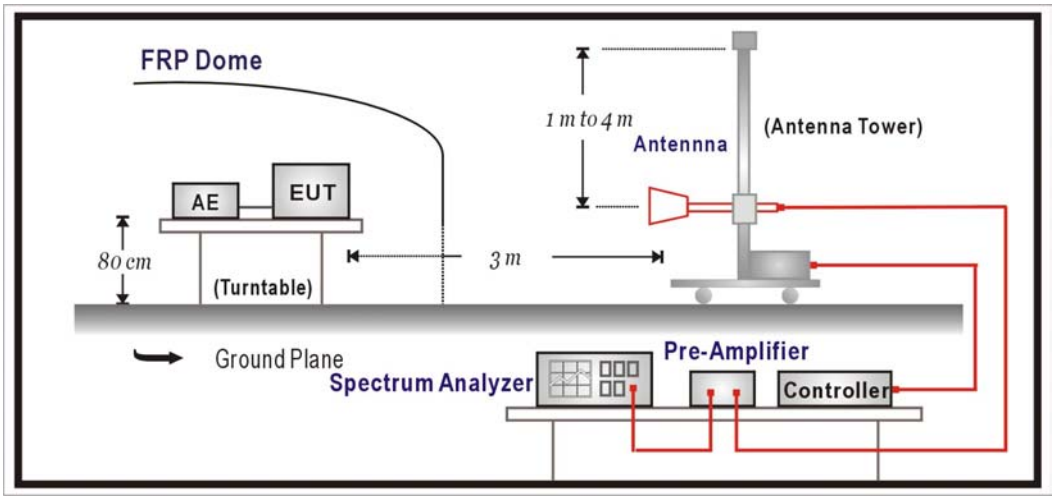
2. Mark “X” test instruments are used to measure the final test results.

5.2. Test Setup

RF Conducted Measurement:



RF Radiated Measurement:



5.3. Limits

In any 100 kHz 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 100 kHz 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)).

5.4. Test Procedure

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 C63.4:2003 on radiated measurement.

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

5.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2005

5.6. Uncertainty

The measurement uncertainty

Conducted is defined as ± 1.27dB

Radiated is defined as ± 3.9dB

5.7. Test Result

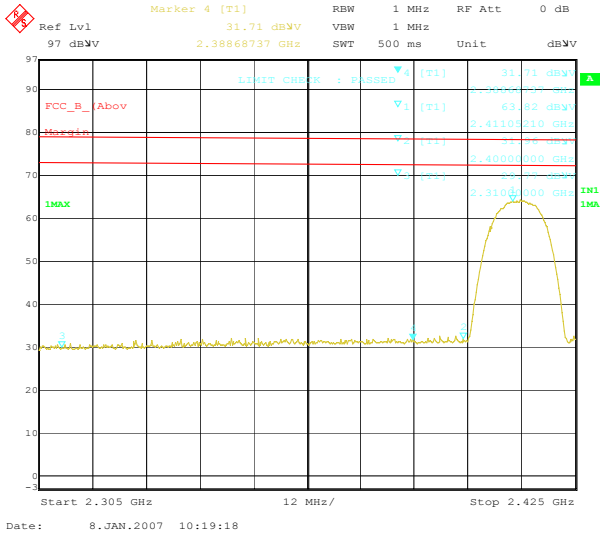
Product	Super G Wireless Router		
Test Item	Band Edge		
Test Mode	Mode 1: Transmit		
Date of Test	2006/01/08	Test Site	No.1 OATS

RF Radiated Measurement: (Peak Detector)

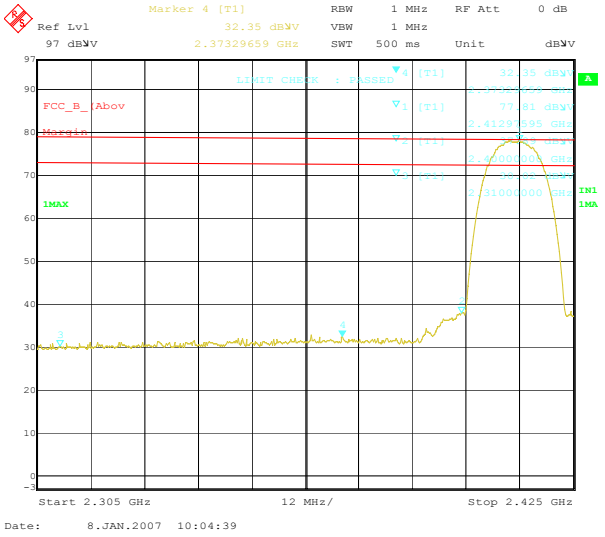
IEEE 802.11b

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Probe Factor (dB/m)	Cable Loss (dB)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
1(Horizontal)	2388.700	31.710	60.688	4.507	60.688	54	74	Pass
1(Vertical)	2373.300	32.350	27.317	4.498	59.667	54	74	Pass

Horizontal



Vertical



Note: The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

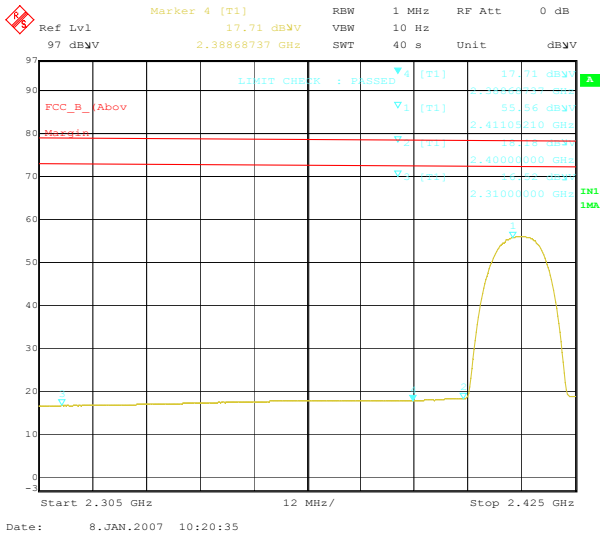
Product	Super G Wireless Router		
Test Item	Band Edge		
Test Mode	Mode 1: Transmit		
Date of Test	2006/01/08	Test Site	No.1 OATS

RF Radiated Measurement: (Average Detector)

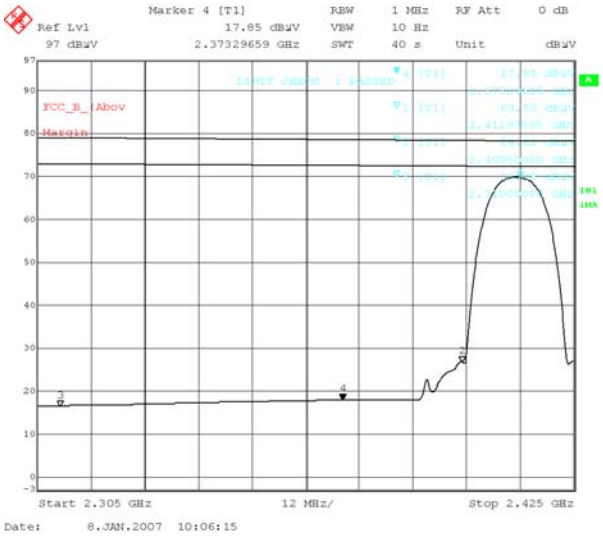
IEEE 802.11b

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Probe Factor (dB/m)	Cable Loss (dB)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
1(Horizontal)	2388.700	17.710	28.978	4.507	46.688	54	74	Pass
1(Vertical)	2373.300	17.850	27.317	4.498	45.167	54	74	Pass

Horizontal



Vertical



Note: The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

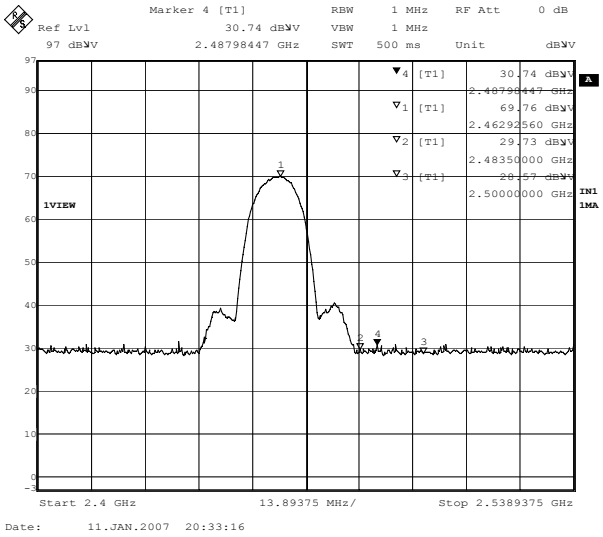
Product	Super G Wireless Router		
Test Item	Band Edge		
Test Mode	Mode 1: Transmit		
Date of Test	2007/01/11	Test Site	No.1 OATS

RF Radiated Measurement: (Peak Detector)

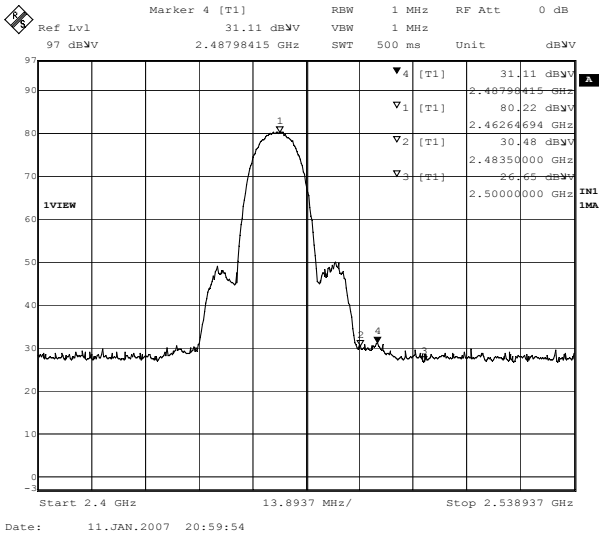
IEEE 802.11b

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Probe Factor (dB/m)	Cable Loss (dB)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
11(Horizontal)	2487.980	30.740	29.306	4.575	60.046	54	74	Pass
11(Vertical)	2487.980	31.110	27.706	4.575	58.816	54	74	Pass

Horizontal



Vertical



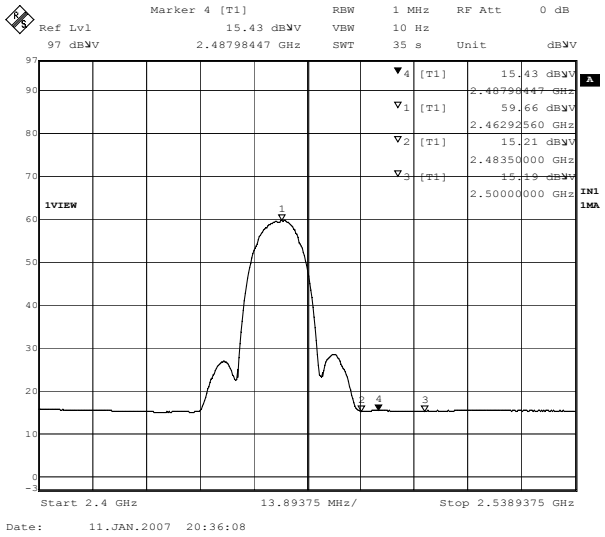
Note: The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product	Super G Wireless Router		
Test Item	Band Edge		
Test Mode	Mode 1: Transmit		
Date of Test	2007/01/11	Test Site	No.1 OATS

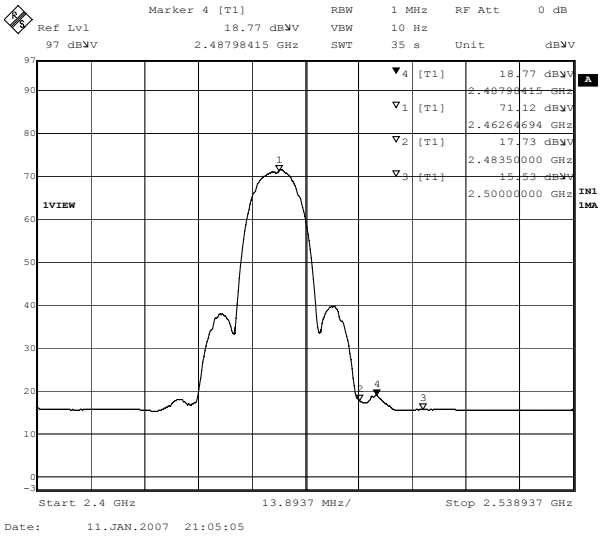
RF Radiated Measurement: (Average Detector)

IEEE 802.11b								
Channel No.	Frequency (MHz)	Reading Level (dBuV)	Probe Factor (dB/m)	Cable Loss (dB)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
11(Horizontal)	2487.980	15.430	29.306	4.575	44.736	54	74	Pass
11(Vertical)	2487.980	18.770	27.706	4.575	46.476	54	74	Pass

Horizontal



Vertical



Note: The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

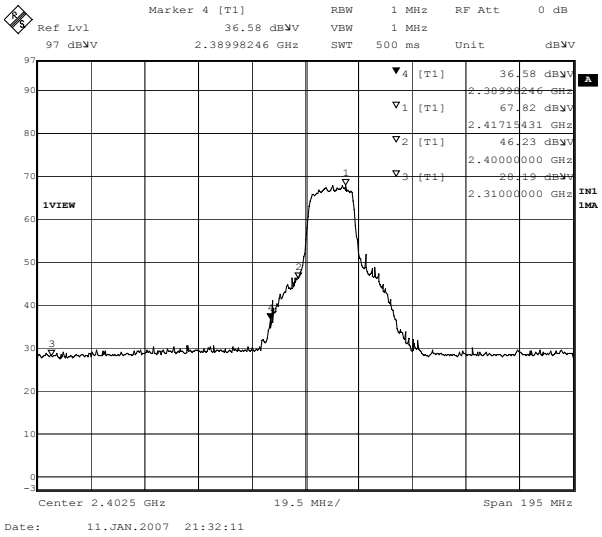
Product	Super G Wireless Router		
Test Item	Band Edge		
Test Mode	Mode 1: Transmit		
Date of Test	2007/01/11	Test Site	No.1 OATS

RF Radiated Measurement: (Peak Detector)

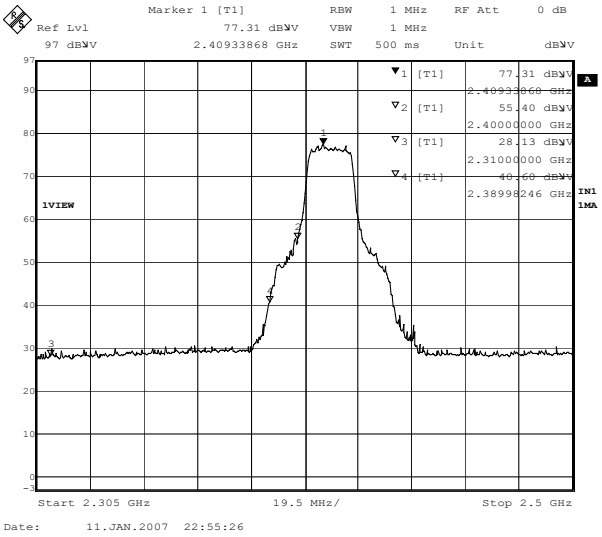
IEEE 802.11g

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Probe Factor (dB/m)	Cable Loss (dB)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
1(Horizontal)	2389.980	36.580	28.984	4.508	65.563	54	74	Pass
1(Vertical)	2389.980	40.600	27.384	4.508	67.983	54	74	Pass

Horizontal



Vertical



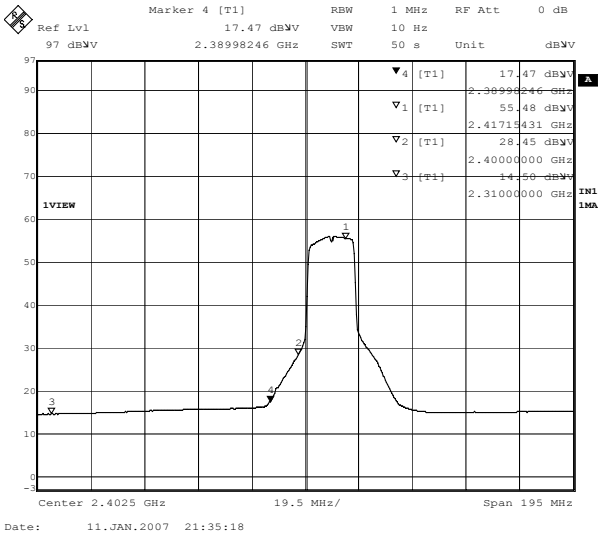
Note: The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product	Super G Wireless Router		
Test Item	Band Edge		
Test Mode	Mode 1: Transmit		
Date of Test	2007/01/11	Test Site	No.1 OATS

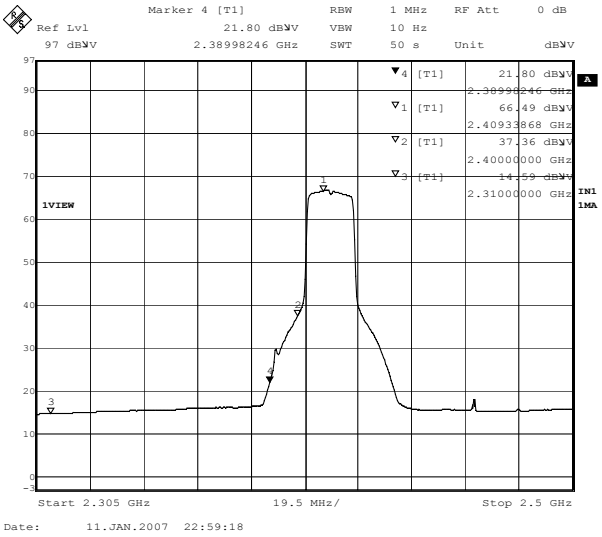
RF Radiated Measurement: (Average Detector)

IEEE 802.11g								
Channel No.	Frequency (MHz)	Reading Level (dBuV)	Probe Factor (dB/m)	Cable Loss (dB)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
1(Horizontal)	2389.980	17.470	28.984	4.508	46.453	54	74	Pass
1(Vertical)	2389.980	21.800	27.384	4.508	49.183	54	74	Pass

Horizontal



Vertical



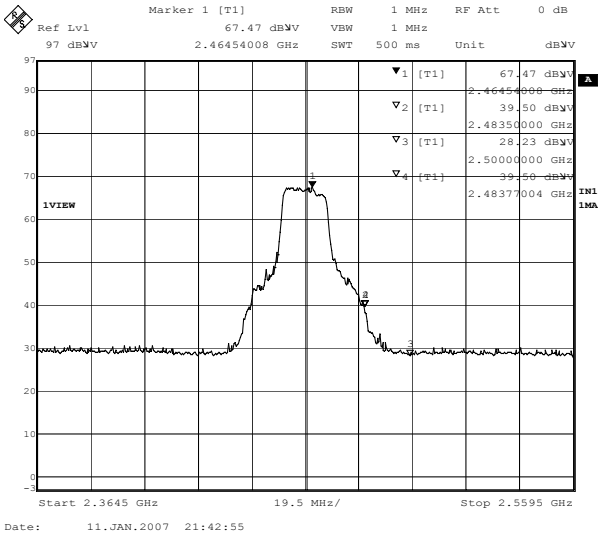
Note: The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product	Super G Wireless Router		
Test Item	Band Edge		
Test Mode	Mode 1: Transmit		
Date of Test	2007/01/11	Test Site	No.1 OATS

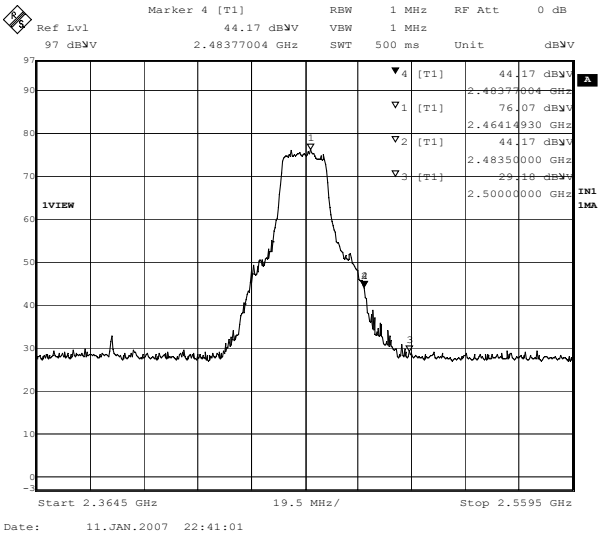
RF Radiated Measurement: (Peak Detector)

IEEE 802.11g								
Channel No.	Frequency (MHz)	Reading Level (dBuV)	Probe Factor (dB/m)	Cable Loss (dB)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
11(Horizontal)	2483.770	39.500	29.294	4.573	68.794	54	74	Pass
11(Vertical)	2483.770	44.170	27.694	4.573	71.864	54	74	Pass

Horizontal



Vertical



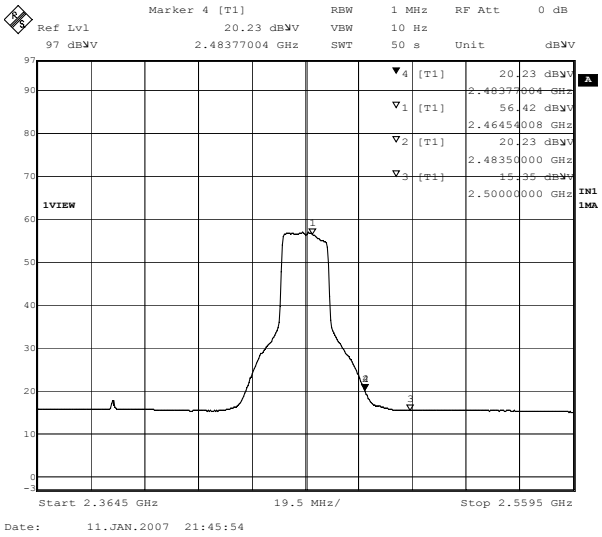
Note: The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product	Super G Wireless Router		
Test Item	Band Edge		
Test Mode	Mode 1: Transmit		
Date of Test	2007/01/11	Test Site	No.1 OATS

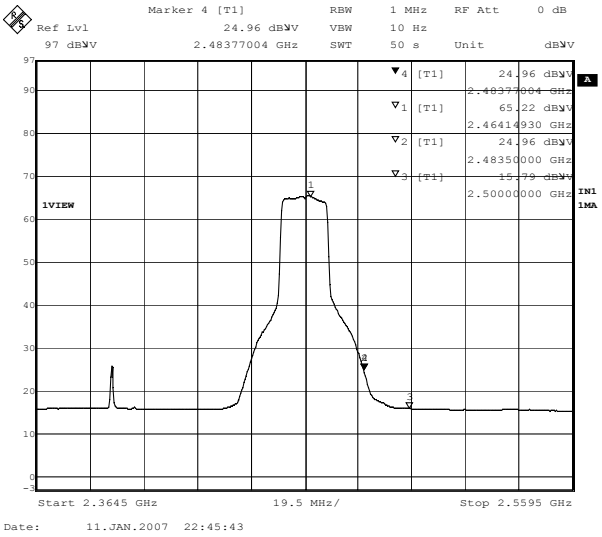
RF Radiated Measurement: (Average Detector)

IEEE 802.11g								
Channel No.	Frequency (MHz)	Reading Level (dBuV)	Probe Factor (dB/m)	Cable Loss (dB)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
11(Horizontal)	2483.770	20.230	29.294	4.573	49.524	54	74	Pass
11(Vertical)	2483.770	24.960	27.694	4.573	52.654	54	74	Pass

Horizontal



Vertical



Note: The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

6. Occupied Bandwidth

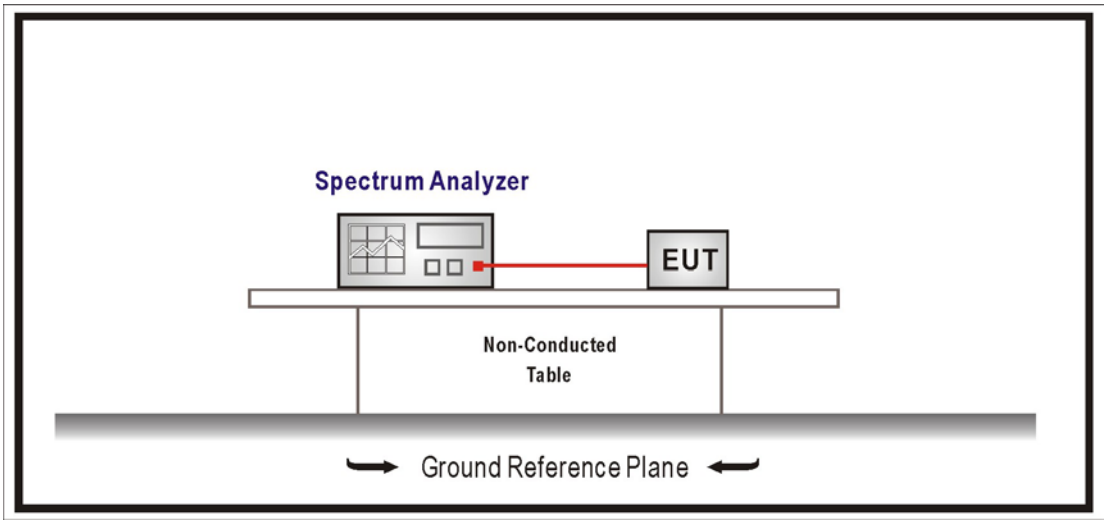
6.1. Test Equipment

The following test equipment are used during the test:

Item	Equipment	Manufacturer	Model No. / Serial No.	Last Cal.
1	Spectrum Analyzer	R & S	FSP / 100561	Mar., 2006
2	No.1 OATS			Sep., 2006

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

6.2. Test Setup



6.3. Limits

For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period. The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz.
For frequency hopping systems operating in the 5725-5850 MHz bands. The maximum 20 dB bandwidth of the hopping channel is 1 MHz.
For frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

6.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2005

6.5. Uncertainty

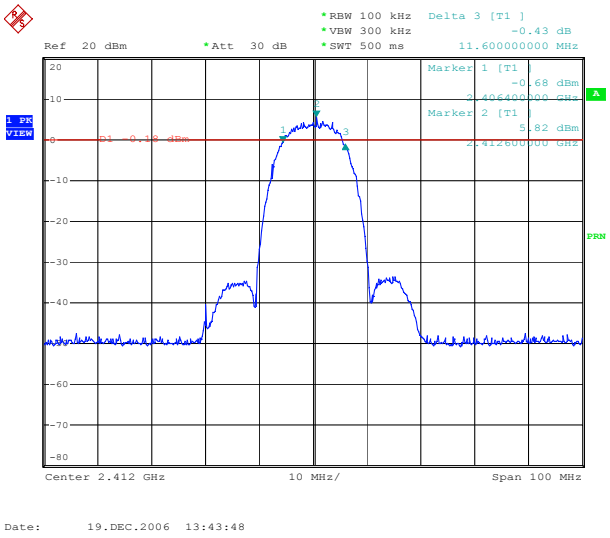
The measurement uncertainty is defined as ±50kHz

6.6. Test Result

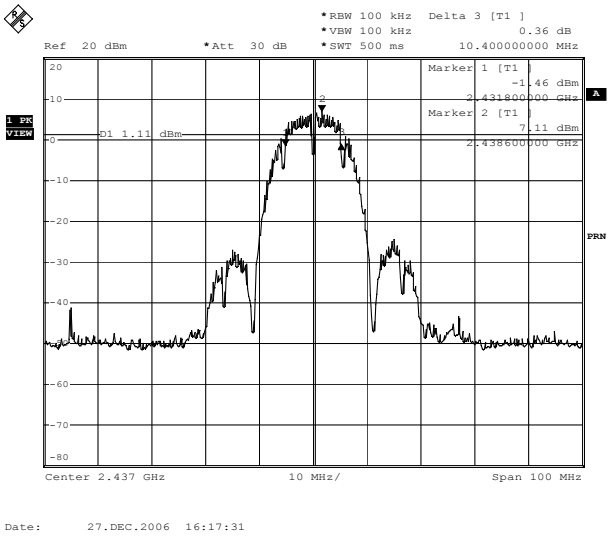
Product	Super G Wireless Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2006/12/19	Test Site	No.1 OATS

IEEE 802.11b				
Channel No.	Frequency (MHz)	Measure Value (kHz)	Limit (kHz)	Result
1	2412	11600	>500	Pass
6	2437	10400	> 500	Pass
11	2462	10400	> 500	Pass

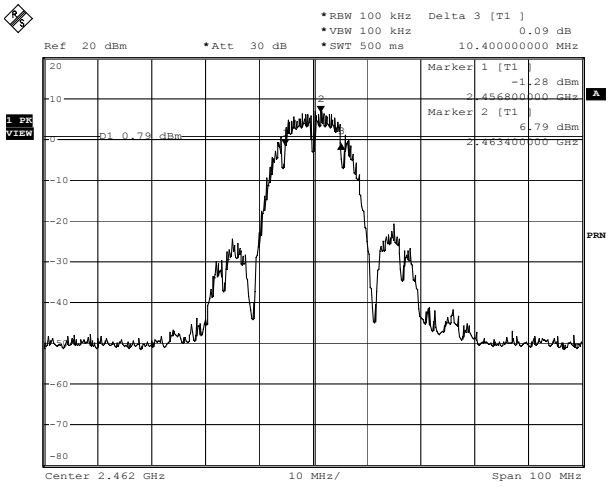
Channel 1



Channel 6



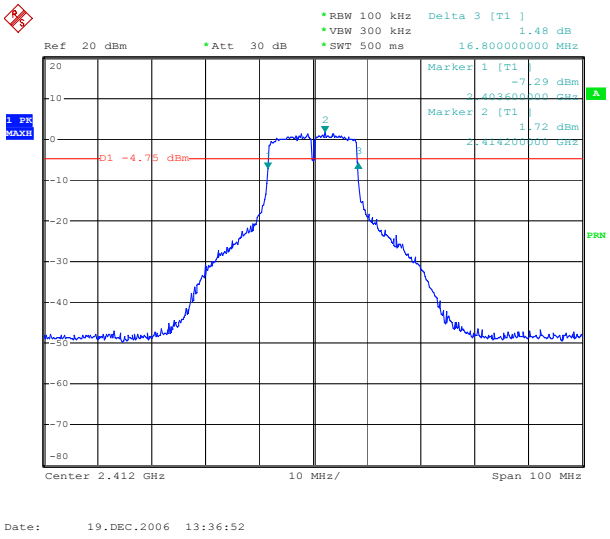
Channel 11



Product	Super G Wireless Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2006/12/19	Test Site	No.1 OATS

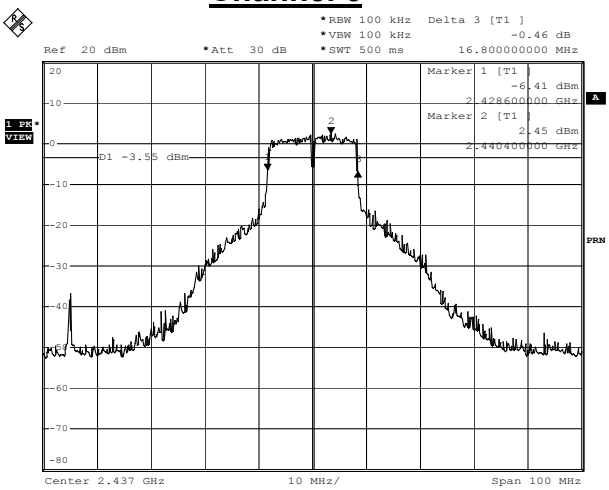
IEEE 802.11g				
Channel No.	Frequency (MHz)	Measure Value (kHz)	Limit (kHz)	Result
1	2412	16800	> 500	Pass
6	2437	16800	> 500	Pass
11	2462	16800	> 500	Pass

Channel 1



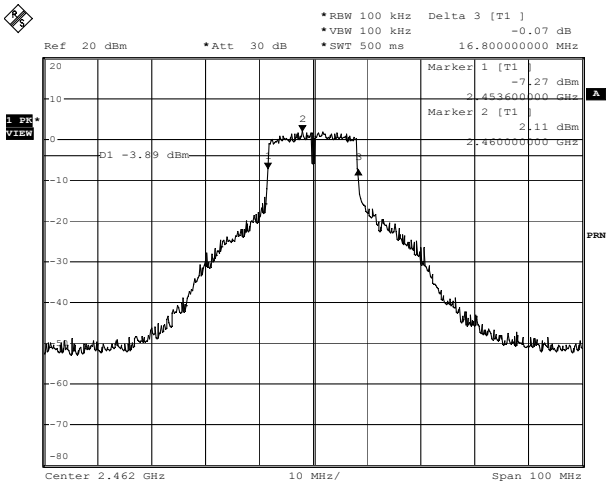
Date: 19.DEC.2006 13:36:52

Channel 6



Date: 27.DEC.2006 16:25:40

Channel 11



Date: 27.DEC.2006 16:23:32

7. Power Density

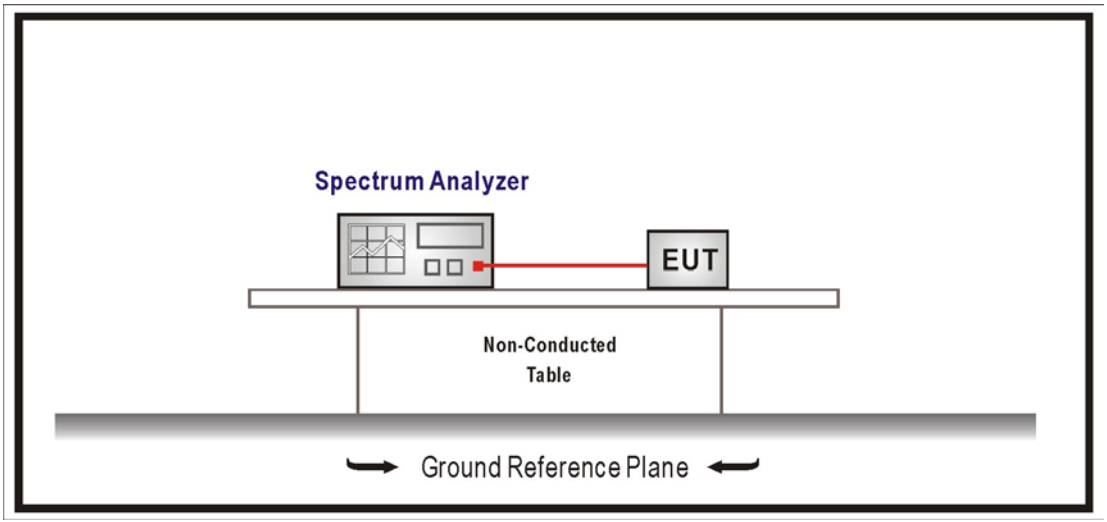
7.1. Test Equipment

The following test equipment are used during the test:

Item	Equipment	Manufacturer	Model No. / Serial No.	Last Cal.
1	Spectrum Analyzer	R & S	FSP / 100561	Mar., 2006
2	No.1 OATS			Sep., 2006

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

7.2. Test Setup



7.3. Limits

The peak power spectral density conducted from the intentional radiated to the antenna shall not be greater than +8dBm in any 3kHz band during any time interval of continuous transmission.

7.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2005

7.5. Uncertainty

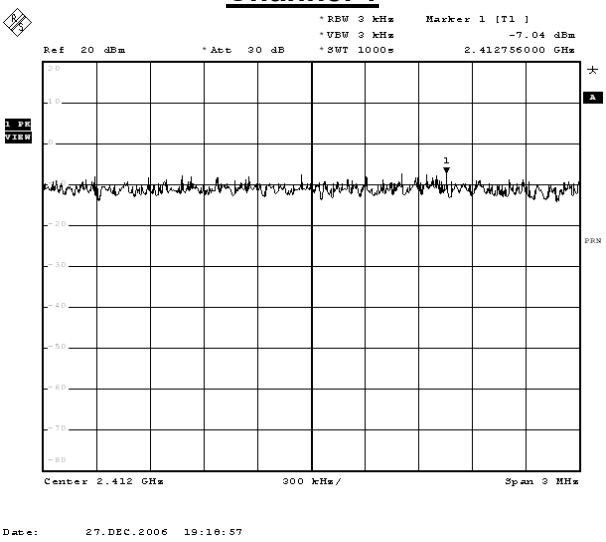
The measurement uncertainty is defined as ±1.27dB.

7.6. Test Result

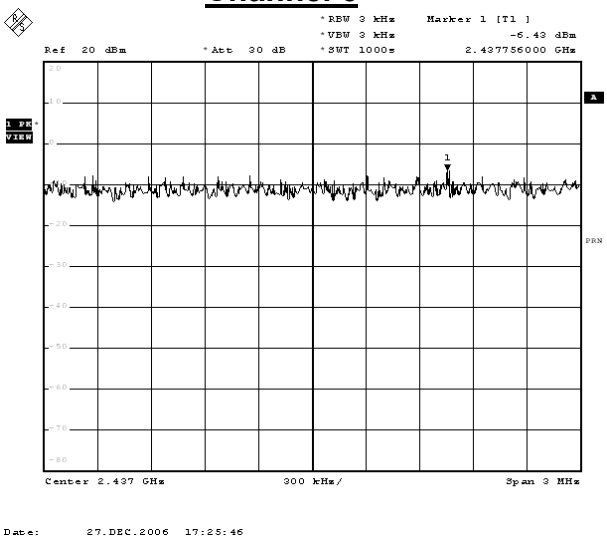
Product	Super G Wireless Router		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2006/12/19	Test Site	No.1 OATS

IEEE 802.11b				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	-7.04	<8	Pass
6	2437	-6.43	<8	Pass
11	2462	-6.86	<8	Pass

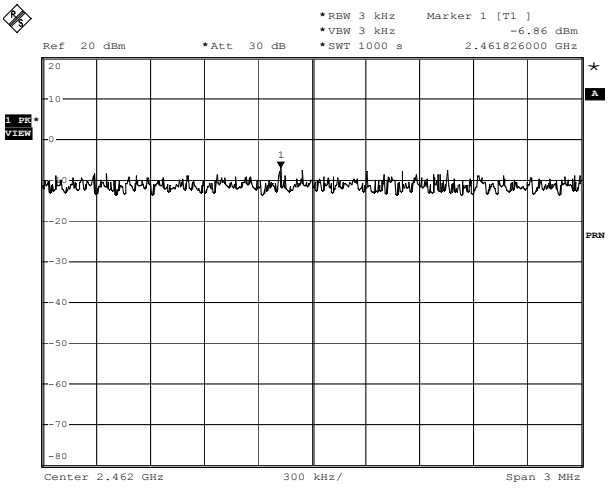
Channel 1



Channel 6



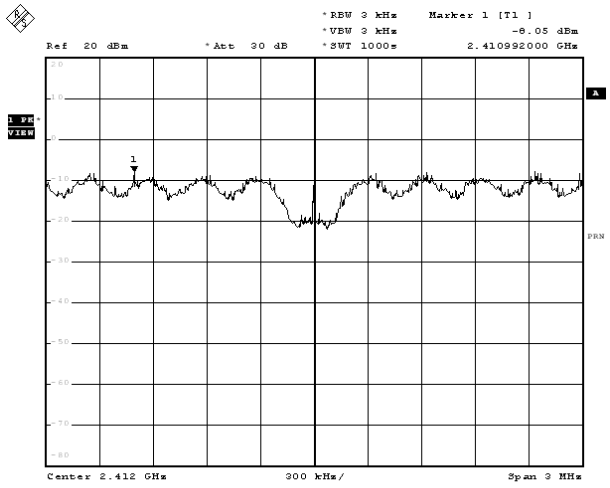
Channel 11



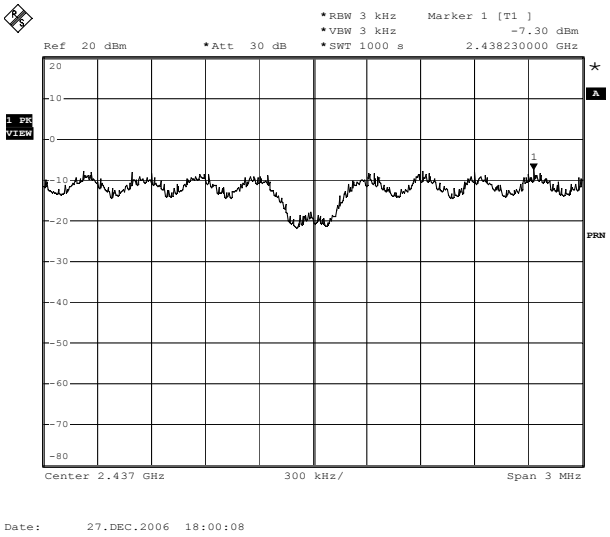
Product	Super G Wireless Router		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2006/12/19	Test Site	No.1 OATS

IEEE 802.11g				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	-8.05	<8	Pass
6	2437	-7.30	<8	Pass
11	2462	-8.60	<8	Pass

Channel 1



Channel 6



Channel 11