



Test Report

Product Name : Wireless Router

Model No. : DI-524

FCC ID. : KA2DI524G2

Applicant : D-Link Corporation

Address : No.289, Sinhu 3rd Rd., Neihu District, Taipei City 114,
Taiwan, R.O.C.

Date of Receipt : 2008/07/08

Issued Date : 2008/08/12

Report No. : 087157R-RFUSP05V01

Version : V1.0

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.

Test Report Certification

Issued Date : 2008/08/12

Report No. : 087157R-RFUSP05V01



Product Name : Wireless Router
 Applicant : D-Link Corporation
 Address : No.289, Sinhu 3rd Rd., Neihu District, Taipei City 114,
 Taiwan, R.O.C.
 Manufacturer : Advance Multimedia Internet Technology
 Model No. : DI-524
 FCC ID. : KA2DI524G2
 Rated Voltage : AC 120 V / 60 Hz
 EUT Voltage : AC 120 V / 60 Hz
 Trade Name : D-Link
 Applicable Standard : FCC CFR Title 47 Part 15 Subpart C Section 15.247
 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
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Reviewed By : Halu Chung
 (Halu Chung / Engineer)

Approved By : Roy Wang
 (Roy Wang / Manager)

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1. General Information

1.1. EUT Description

Product Name	Wireless Router
Trade Name	D-Link
Model No.	DI-524
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	Manual
Antenna Type	Monopole

Component	
Power Adapter	D-Link, AF0605-B I/P: 100-240V~0.15A 50~60Hz LF O/P: +5V/1.2A Cable Out: Non-Shielded, 1.75m

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 Wireless Router, which including 2.4GHz WLAN transmitting function, and 2.4GHz WLAN receiving function.
2. These test results on a sample of the device are for the purpose of demonstrating compliance with Part 15 Subpart C Paragraph 15.247.
3. Regards to the frequency band operation; 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 receiving function receiving was tested and its test report number is 087157R-RFUSP01V02 under Declaration of Conformity.

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

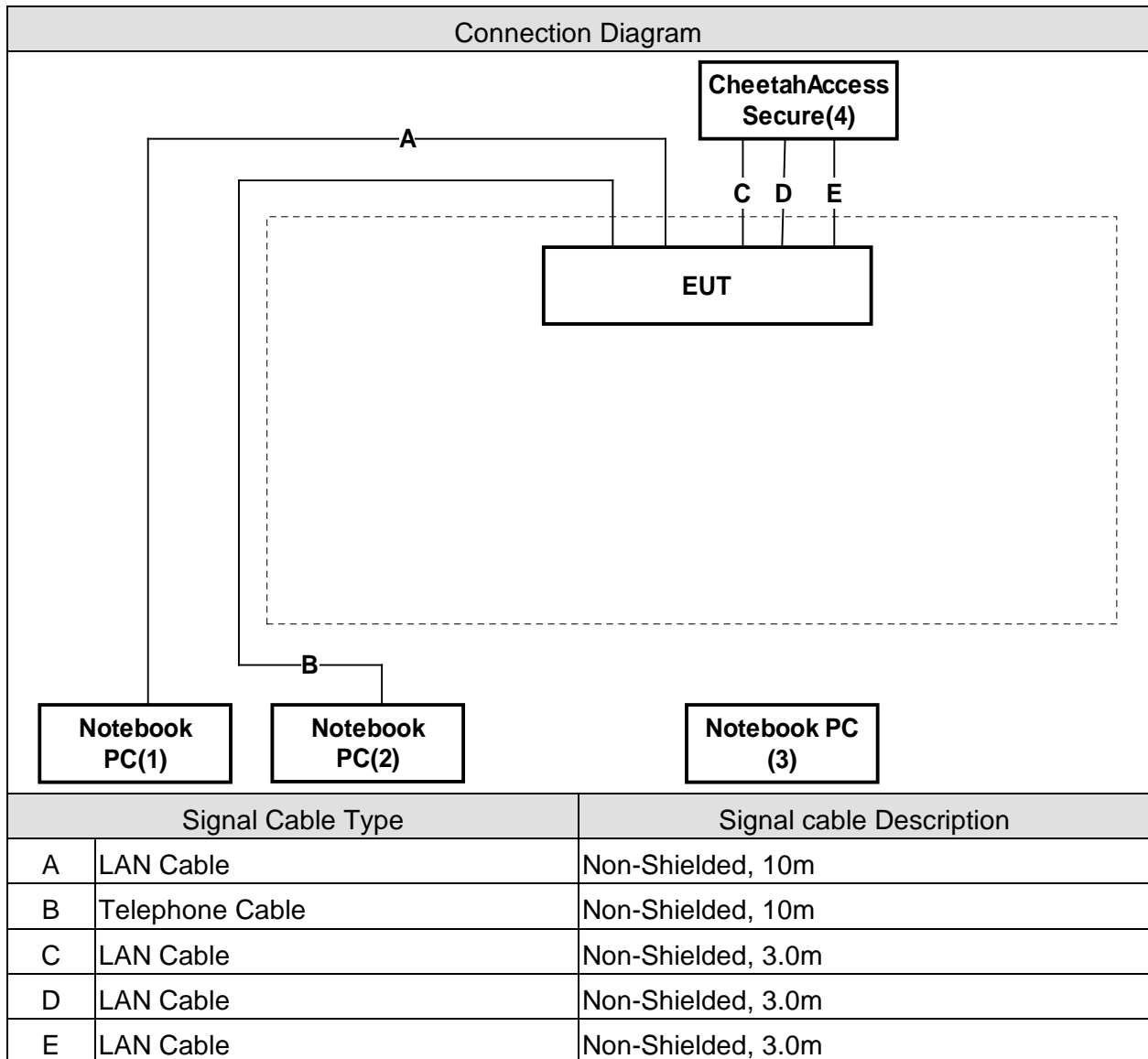
Emission	
Conducted Emission	Yes
Peak Power Output	Yes
Radiated Emission	Yes
Band Edge	Yes
Occupied Bandwidth	Yes
Power Density	Yes

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	GK43D1S	DoC	Non-shielded, 1.7m, a ferrite core bonded
2 Notebook PC	DELL	LATITUDE D400	HK43D1S	DoC	Non-shielded, 1.7m, a ferrite core bonded
3 Notebook PC	DELL	Latitude 610	N/A	DoC	Non-shielded, 1.7m, a ferrite core bonded
4 CheetahAccess Secure	Accton	AC-IG1104	N/A	DoC	Non-shielded, 1.8m

1.5. Configuration of tested System



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	Boot the Notebook PC from Hard Disk.
4	Data will be communicated between computer and EUT.
5	All the peripheral will be retrieved during the test.
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 Peak Power Output (DSSS)	15 - 35	26
Humidity (%RH)		25 - 75	51
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	65
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Band Edge (DSSS)	15 - 35	26
Humidity (%RH)		25 - 75	65
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Occupied Bandwidth (DSSS)	15 - 35	26
Humidity (%RH)		25 - 75	51
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Power Density (DSSS)	15 - 35	26
Humidity (%RH)		25 - 75	51
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 TAF
Accreditation Number: 1313
Effective through: December 27, 2010



Accredited by NVLAP
NVLAP Lab Code: 200347-0
Effective through: September 30, 2008



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. Conducted Emission

2.1. Test Equipment

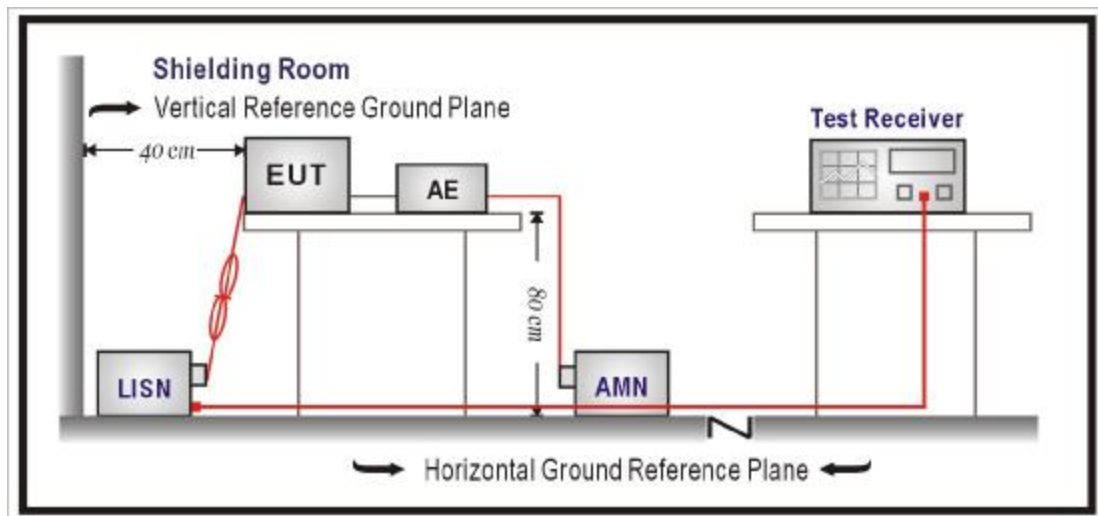
The following test equipments are used during the test:

Conducted Emission / SR2

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
4-Wire ISN	R & S	ENY 41	837032/001	2008/04/15
Artificial Mains Network	R & S	ENV4200	848411/010	2008/03/13
Double 2-Wire ISN	R & S	ENY 22	835354/008	2008/04/15
LISN	R & S	ESH3-Z5	825562/002	2008/03/31
Pulse Limiter	R & S	ZSH3Z2	357.8810.54	2008/07/19
Test Receiver	R & S	ESCS 30	100122	2008/02/21

Note: 1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

2.2. Test Setup



2.3. 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.

2.4. Test Procedure

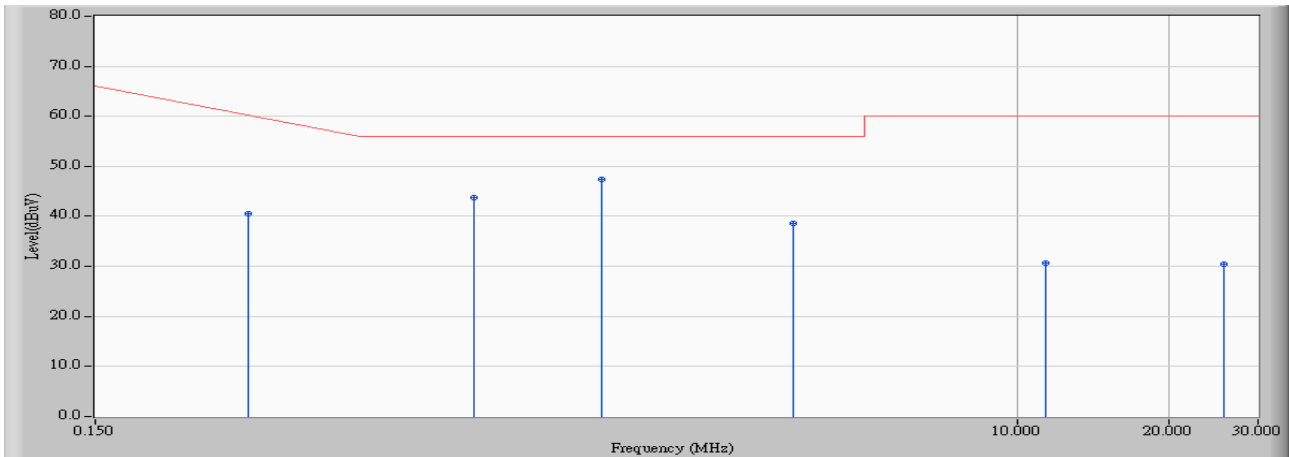
The EUT was setup according to ANSI C63.4, 2003 and tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs.) Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

2.5. Uncertainty

The measurement uncertainty is defined as ± 2.26 dB.

2.6. Test Result

Site : ShieldingRoom 2	Time : 2008/07/25 - 15:52
Limit : CISPR_B_00M_QP	Margin : 0
Probe : QTK-LISN-SR2 - Line1	Power : AC 120V / 60Hz
EUT : Wireless Router	Note : TX-B

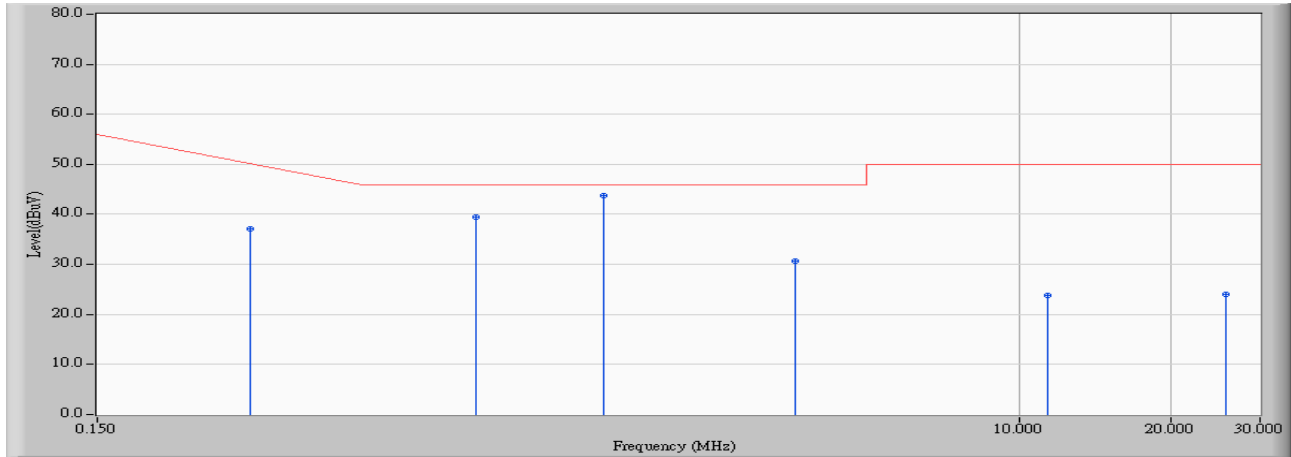


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.302	0.047	40.460	40.507	-21.150	61.657	QUASPEAK
2	0.841	0.070	43.740	43.810	-12.190	56.000	QUASPEAK
3	* 1.505	0.100	47.270	47.370	-8.630	56.000	QUASPEAK
4	3.615	0.190	38.450	38.640	-17.360	56.000	QUASPEAK
5	11.435	0.680	30.000	30.680	-29.320	60.000	QUASPEAK
6	25.693	1.470	29.070	30.540	-29.460	60.000	QUASPEAK

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 : ShieldingRoom 2	Time : 2008/07/25 - 15:52
Limit : CISPR_B_00M_AV	Margin : 0
Probe : QTK-LISN-SR2 - Line1	Power : AC 120V / 60Hz
EUT : Wireless Router	Note : TX-B

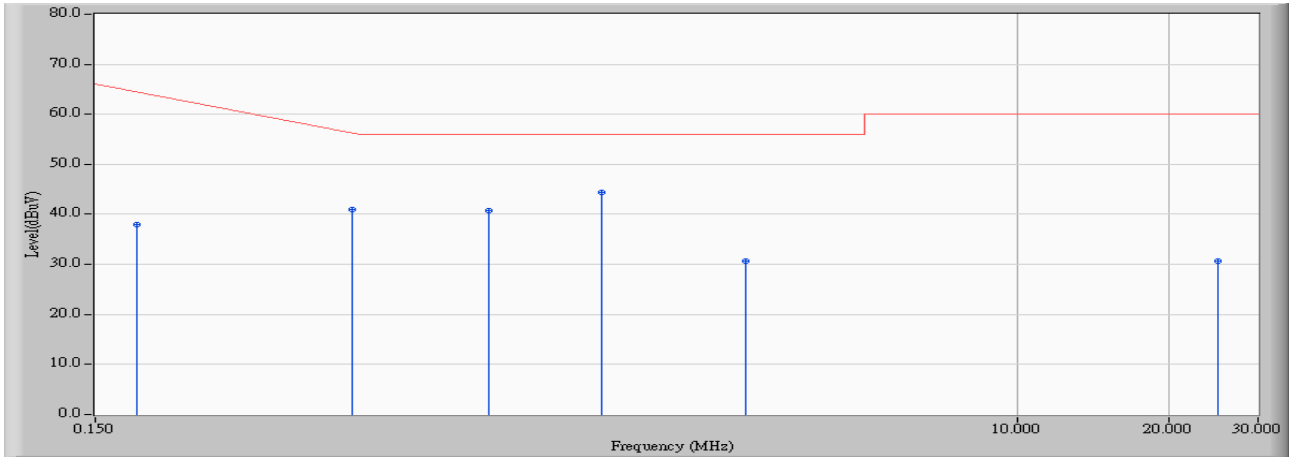


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.302	0.047	36.980	37.027	-14.630	51.657	AVERAGE
2	0.841	0.070	39.320	39.390	-6.610	46.000	AVERAGE
3	* 1.505	0.100	43.730	43.830	-2.170	46.000	AVERAGE
4	3.615	0.190	30.540	30.730	-15.270	46.000	AVERAGE
5	11.435	0.680	23.210	23.890	-26.110	50.000	AVERAGE
6	25.693	1.470	22.550	24.020	-25.980	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 : ShieldingRoom 2	Time : 2008/07/25 - 16:18
Limit : CISPR_B_00M_QP	Margin : 0
Probe : QTK-LISN-SR2 - Line2	Power : AC 120V / 60Hz
EUT : Wireless Router	Note : TX-B

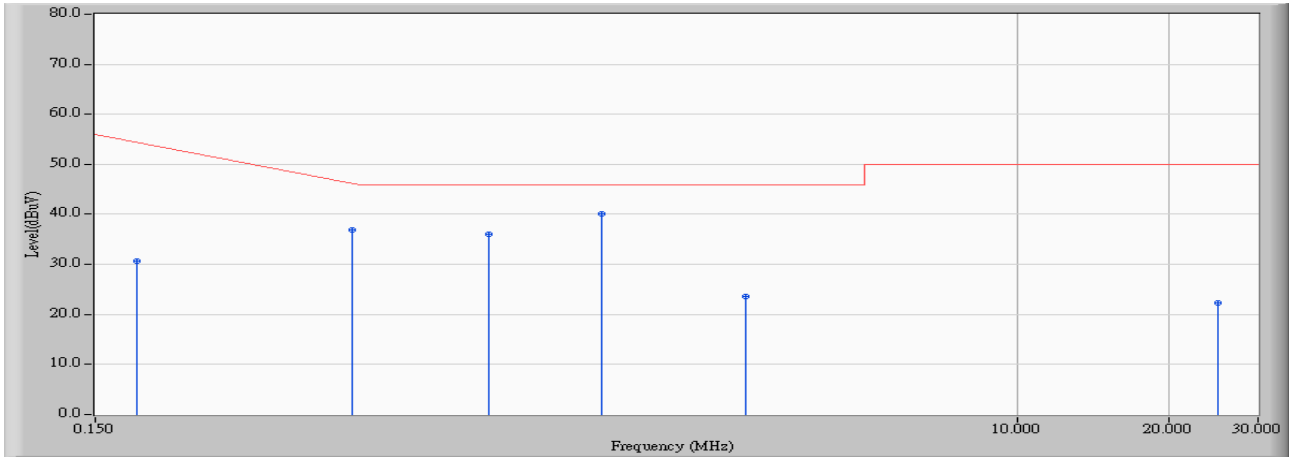


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.181	0.030	37.920	37.950	-27.164	65.114	QUASPEAK
2	0.482	0.050	40.950	41.000	-15.514	56.514	QUASPEAK
3	0.904	0.060	40.680	40.740	-15.260	56.000	QUASPEAK
4	* 1.505	0.080	44.420	44.500	-11.500	56.000	QUASPEAK
5	2.896	0.130	30.540	30.670	-25.330	56.000	QUASPEAK
6	24.998	1.130	29.450	30.580	-29.420	60.000	QUASPEAK

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 : ShieldingRoom 2	Time : 2008/07/25 - 16:18
Limit : CISPR_B_00M_AV	Margin : 0
Probe : QTK-LISN-SR2 - Line2	Power : AC 120V / 60Hz
EUT : Wireless Router	Note : TX-B

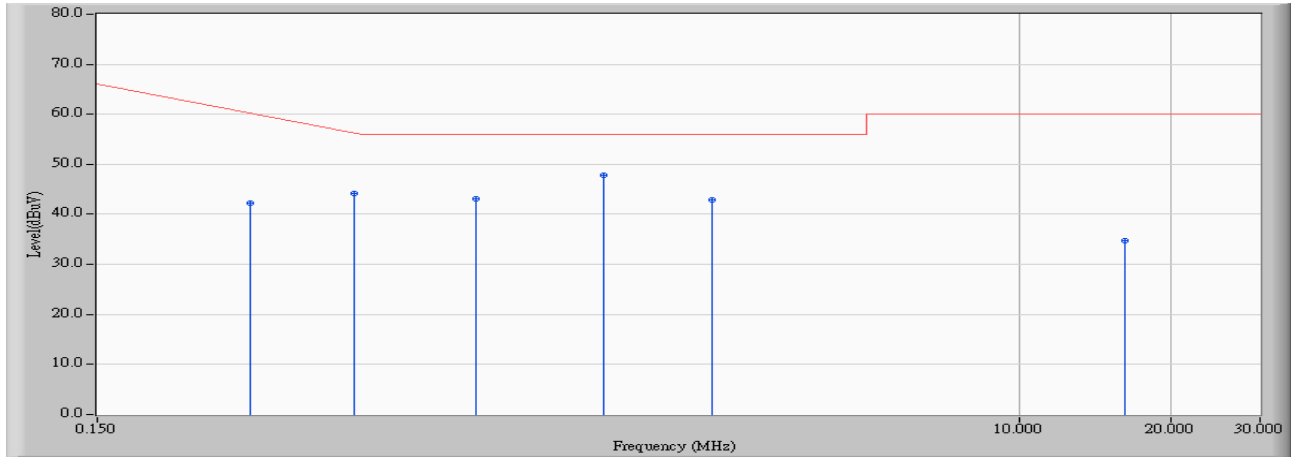


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.181	0.030	30.620	30.650	-24.464	55.114	AVERAGE
2	0.482	0.050	36.800	36.850	-9.664	46.514	AVERAGE
3	0.904	0.060	35.940	36.000	-10.000	46.000	AVERAGE
4	* 1.505	0.080	39.960	40.040	-5.960	46.000	AVERAGE
5	2.896	0.130	23.490	23.620	-22.380	46.000	AVERAGE
6	24.998	1.130	21.250	22.380	-27.620	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 : ShieldingRoom 2	Time : 2008/07/25 - 16:28
Limit : CISPR_B_00M_QP	Margin : 0
Probe : QTK-LISN-SR2 - Line1	Power : AC 120V / 60Hz
EUT : Wireless Router	Note : TX-G

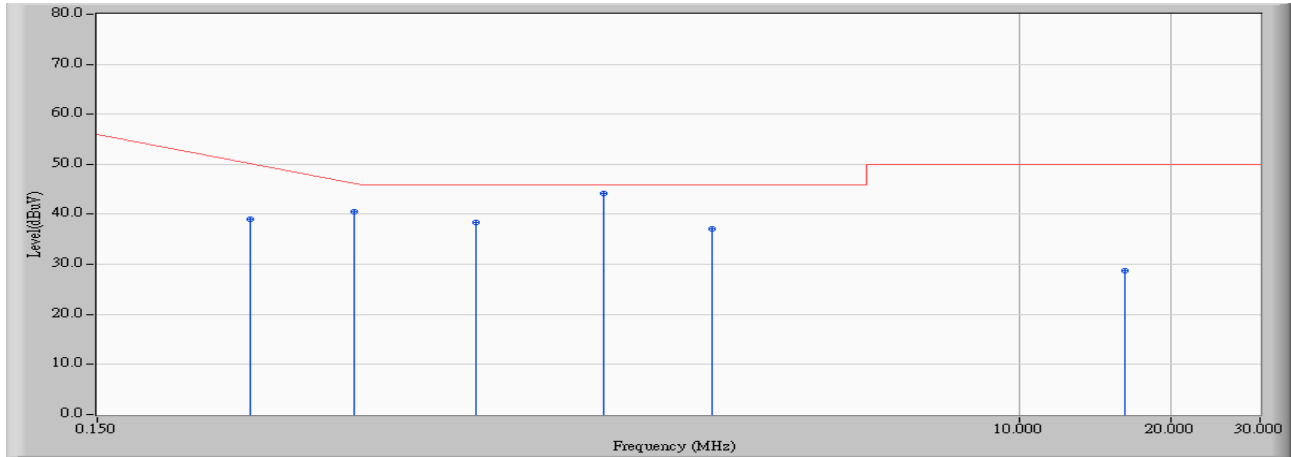


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.302	0.047	42.290	42.337	-19.320	61.657	QUASPEAK
2	0.482	0.060	44.110	44.170	-12.344	56.514	QUASPEAK
3	0.841	0.070	43.140	43.210	-12.790	56.000	QUASPEAK
4	* 1.505	0.100	47.760	47.860	-8.140	56.000	QUASPEAK
5	2.470	0.130	42.770	42.900	-13.100	56.000	QUASPEAK
6	16.228	1.040	33.650	34.690	-25.310	60.000	QUASPEAK

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 : ShieldingRoom 2	Time : 2008/07/25 - 16:28
Limit : CISPR_B_00M_AV	Margin : 0
Probe : QTK-LISN-SR2 - Line1	Power : AC 120V / 60Hz
EUT : Wireless Router	Note : TX-G

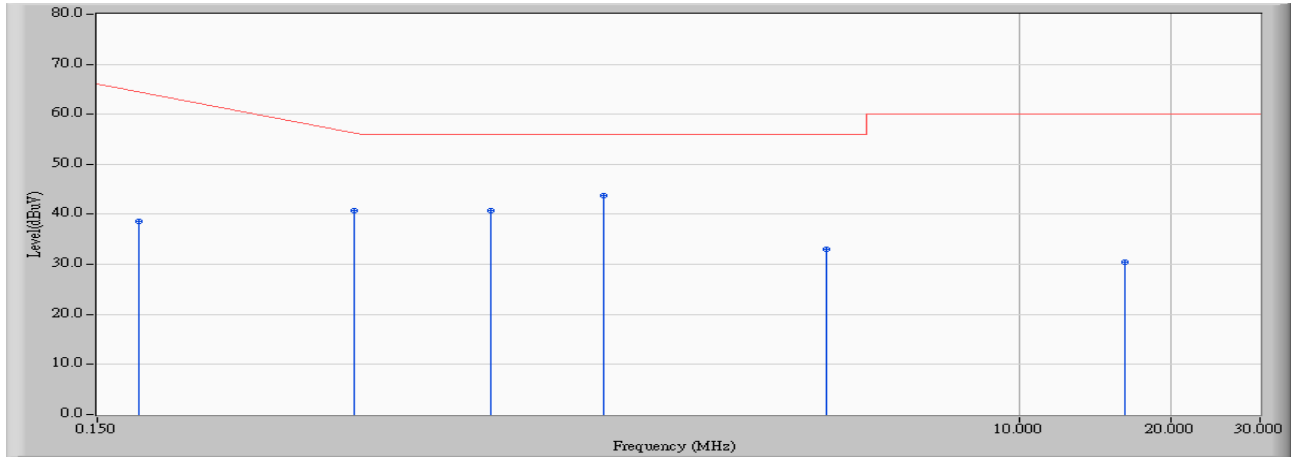


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.302	0.047	38.940	38.987	-12.670	51.657	AVERAGE
2	0.482	0.060	40.510	40.570	-5.944	46.514	AVERAGE
3	0.841	0.070	38.300	38.370	-7.630	46.000	AVERAGE
4	* 1.505	0.100	44.090	44.190	-1.810	46.000	AVERAGE
5	2.470	0.130	37.000	37.130	-8.870	46.000	AVERAGE
6	16.228	1.040	27.660	28.700	-21.300	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 : ShieldingRoom 2	Time : 2008/07/25 - 16:35
Limit : CISPR_B_00M_QP	Margin : 0
Probe : QTK-LISN-SR2 - Line2	Power : AC 120V / 60Hz
EUT : Wireless Router	Note : TX-G

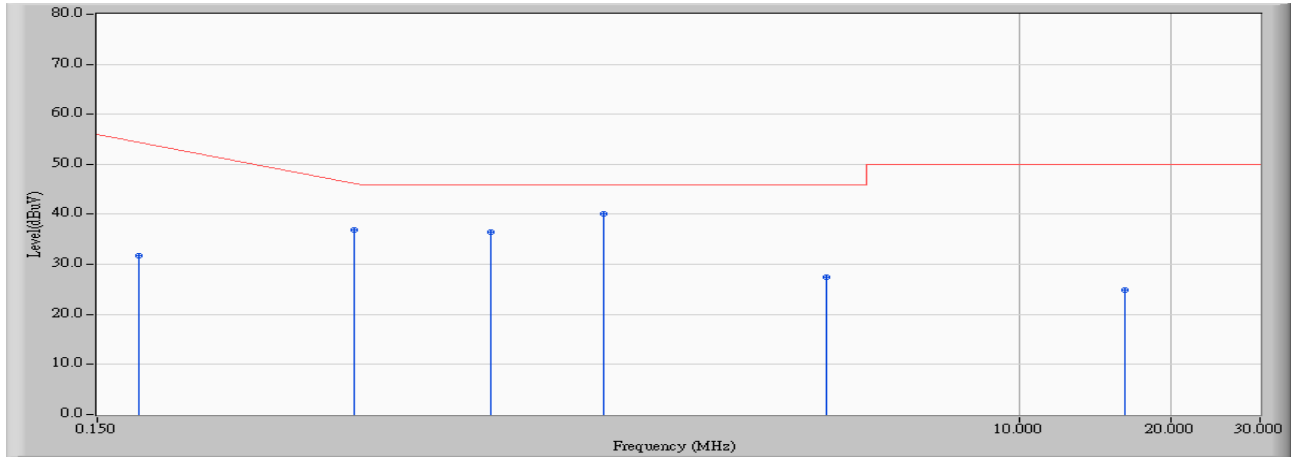


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.181	0.030	38.620	38.650	-26.464	65.114	QUASPEAK
2	0.482	0.050	40.750	40.800	-15.714	56.514	QUASPEAK
3	0.904	0.060	40.720	40.780	-15.220	56.000	QUASPEAK
4	* 1.505	0.080	43.590	43.670	-12.330	56.000	QUASPEAK
5	4.158	0.180	32.790	32.970	-23.030	56.000	QUASPEAK
6	16.228	0.800	29.650	30.450	-29.550	60.000	QUASPEAK

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 : ShieldingRoom 2	Time : 2008/07/25 - 16:35
Limit : CISPR_B_00M_AV	Margin : 0
Probe : QTK-LISN-SR2 - Line2	Power : AC 120V / 60Hz
EUT : Wireless Router	Note : TX-G



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.181	0.030	31.620	31.650	-23.464	55.114	AVERAGE
2	0.482	0.050	36.870	36.920	-9.594	46.514	AVERAGE
3	0.904	0.060	36.480	36.540	-9.460	46.000	AVERAGE
4	* 1.505	0.080	39.920	40.000	-6.000	46.000	AVERAGE
5	4.158	0.180	27.360	27.540	-18.460	46.000	AVERAGE
6	16.228	0.800	24.090	24.890	-25.110	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. Peak Power Output

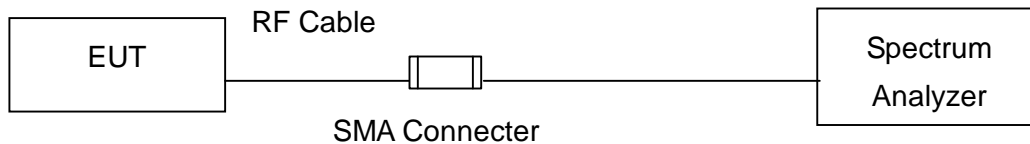
3.1. Test Equipment

The following test equipments are used during the test:

Item	Equipment	Manufacturer	Model No. / Serial No.	Last Cal.
1	Spectrum Analyzer	R & S	FSP / 100561	Jan., 2008
2	No.1 OATS			Sep., 2007

Note: 1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

3.2. Test Setup



3.3. Test procedures

The EUT was tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

3.4. Limits

The maximum peak power shall be less 1 Watt.

3.5. Uncertainty

The measurement uncertainty is defined as ± 1.27 dB.

3.6. Test Result

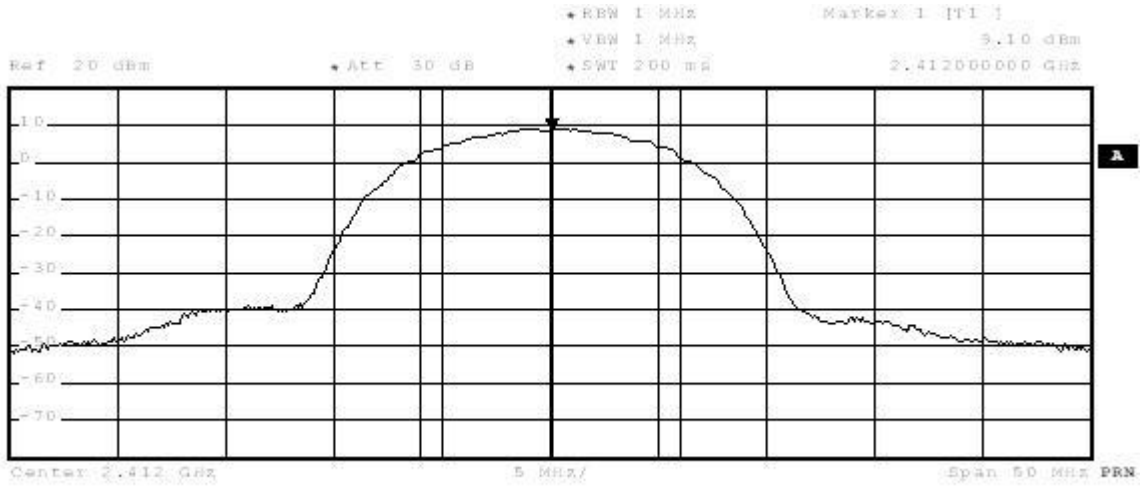
Product	Wireless Router		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2008/07/14	Test Site	No.1 OATS

IEEE 802.11b				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	15.46	1Watt= 30 dBm	Pass
6	2437	15.77	1Watt= 30 dBm	Pass
11	2462	16.16	1Watt= 30 dBm	Pass

Peak Power Output Value (dBm)						
Channel No.	Frequency (MHz)	Data Rate				Required Limit
		1 Mbps	2Mbps	5.5Mbps	11Mbps	
1	2412.00	15.46	--	--	--	1Watt= 30 dBm
6	2437.00	15.77	15.72	15.68	15.65	1Watt= 30 dBm
11	2462.00	16.16	--	--	--	1Watt= 30 dBm

Note: Peak Power Output Value =Reading value on peak power meter + cable loss

Channel 1



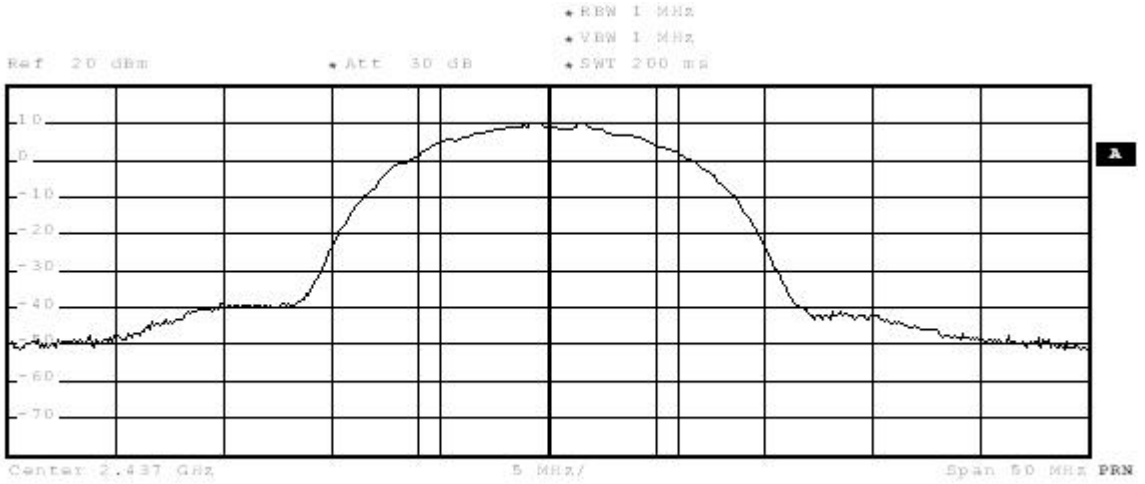
Ch Channel
Bandwidth

12 MHz

Power

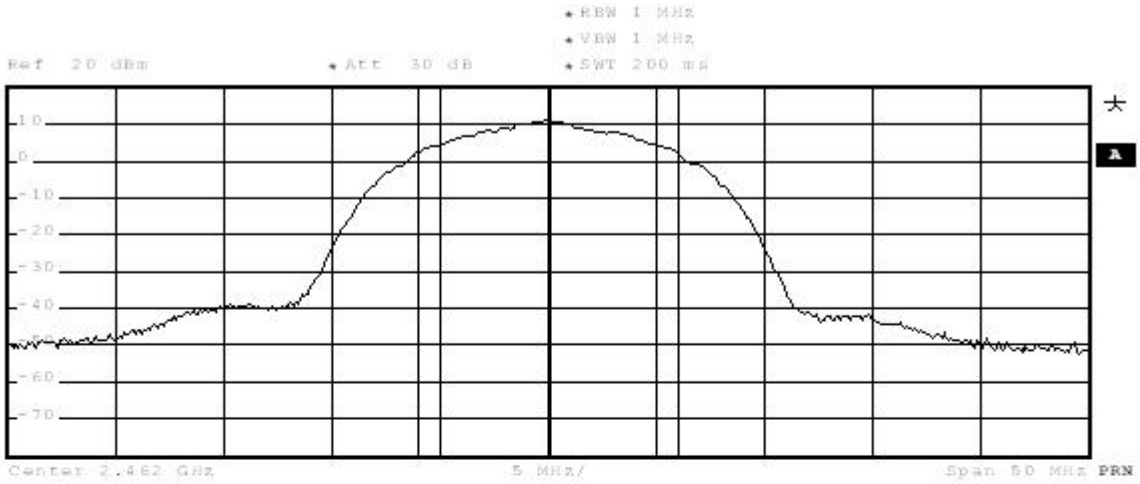
15.46 dBm

Channel 6



TS Channel
Bandwidth 12 MHz Power 15.77 dBm

Channel 11



1 Channel
Bandwidth 12 MHz Power 16.16 dBm

Product	Wireless Router		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2008/07/14	Test Site	No.1 OATS

IEEE 802.11g				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	16.47	1Watt= 30 dBm	Pass
6	2437	16.79	1Watt= 30 dBm	Pass
11	2462	16.98	1Watt= 30 dBm	Pass

Peak Power Output Value(dBm)										
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		6 Mbps	9 Mbps	12 Mbps	18 Mbps	24 Mbps	36 Mbps	48 Mbps	54 Mbps	
1	2412.00	16.47	--	--	--	--	--	--	--	1Watt= 30 dBm
6	2437.00	16.79	16.76	16.72	16.70	16.67	16.65	16.61	16.58	1Watt= 30 dBm
11	2462.00	16.98	--	--	--	--	--	--	--	1Watt= 30 dBm

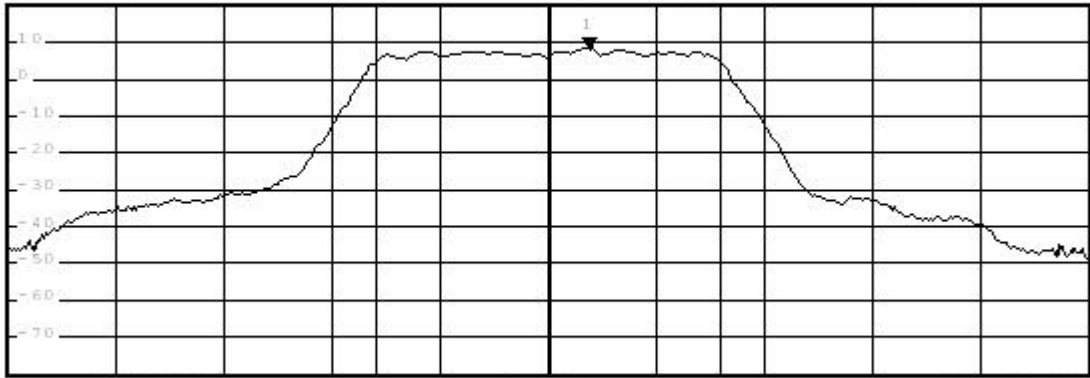
Note: Peak Power Output Value =Reading value on peak power meter + cable loss

Channel 1



Ref 20 dBm * Att 30 dB * RBW 1 MHz Marker 1 [PT1] 8.75 dBm
* VBW 1 MHz 2.413800000 GHz
* SWT 200 ms

1 PE
VIEW



Center 2.412 GHz 5 MHz/ Span 50 MHz PRN

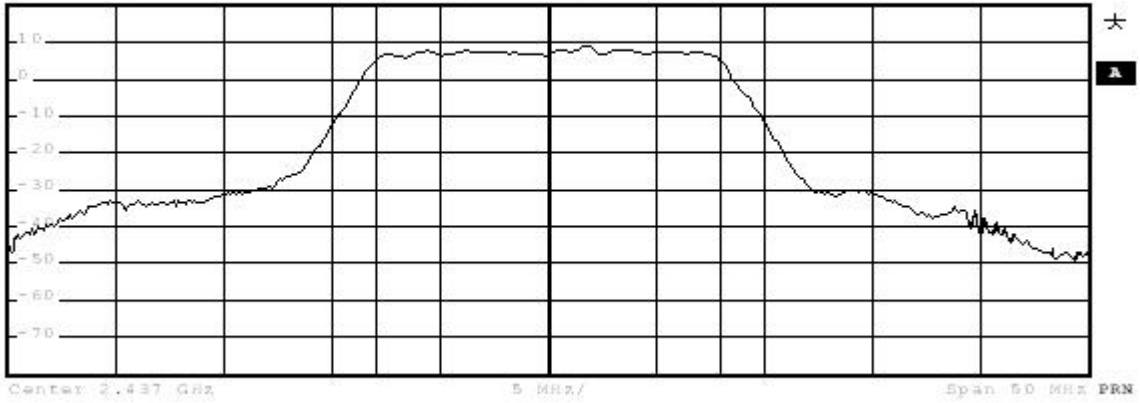
Ch Channel
Bandwidth 16 MHz Power 16.47 dBm

Channel 6



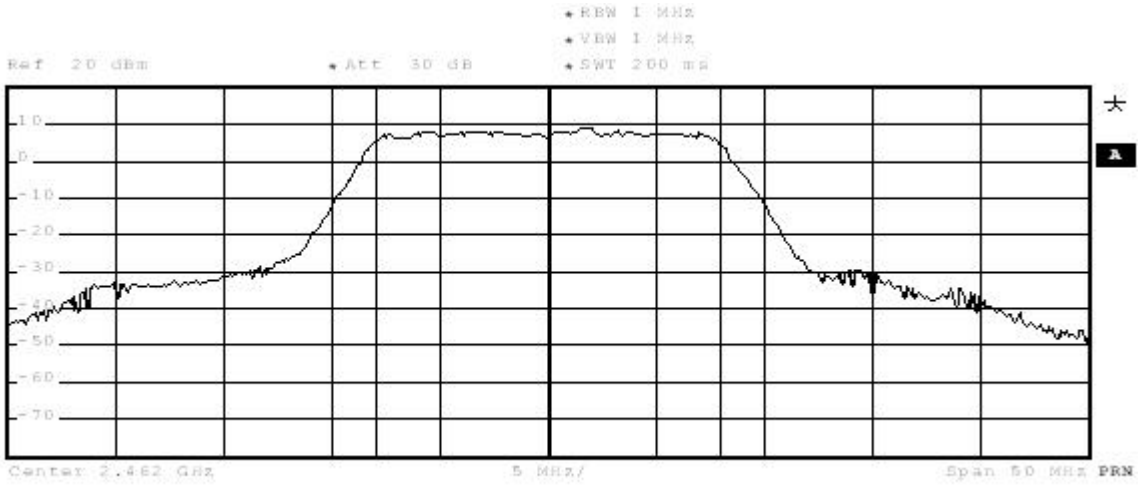
Ref 20 dBm Att 30 dB RBW 1 MHz
VBW 1 MHz SWT 200 ms

1 PE
VIEW



16 Channel
Bandwidth 16 MHz Power 16.79 dBm

Channel 11



Ch Channel
Bandwidth 16 MHz Power 16.98 dBm

4. Radiated Emission

4.1. Test Equipment

The following test equipments are used during the test:

Radiated Emission / Site1

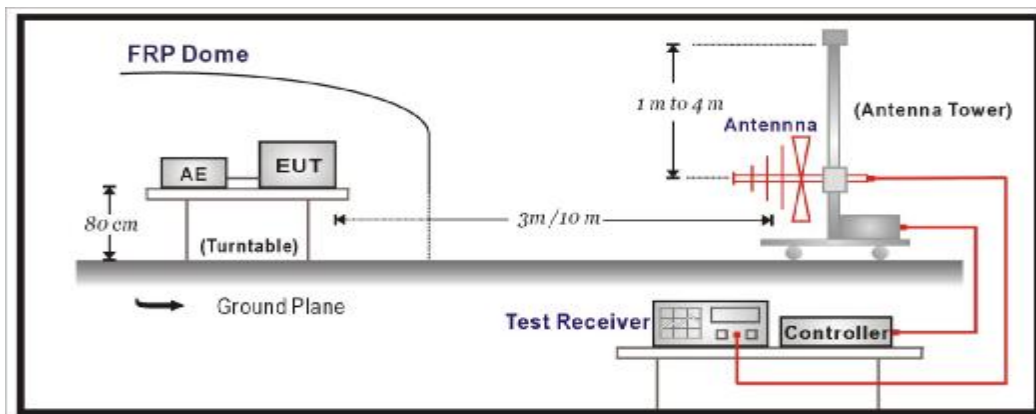
Instrument	Manufacturer	Type No.	Serial No	Cal. Date
Bilog Antenna	Schaffner Chase	CBL6112B	2895	2007/09/03
Horn Antenna	Electro Metrics	EM-6961	103325	2008/03/15
Pre-Amplifier	HP	8449B	3008A01123	2007/11/15
Pre-Amplifier	Quietek	AP-025C	N/A	N/A
Spectrum Analyzer	R & S	FSP40	100005	2007/08/25
Spectrum Analyzer	Advantest	R3162	120300649	2007/11/24
Test Receiver	R & S	ESCS 30	825442/017	2008/02/13

Note: 1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

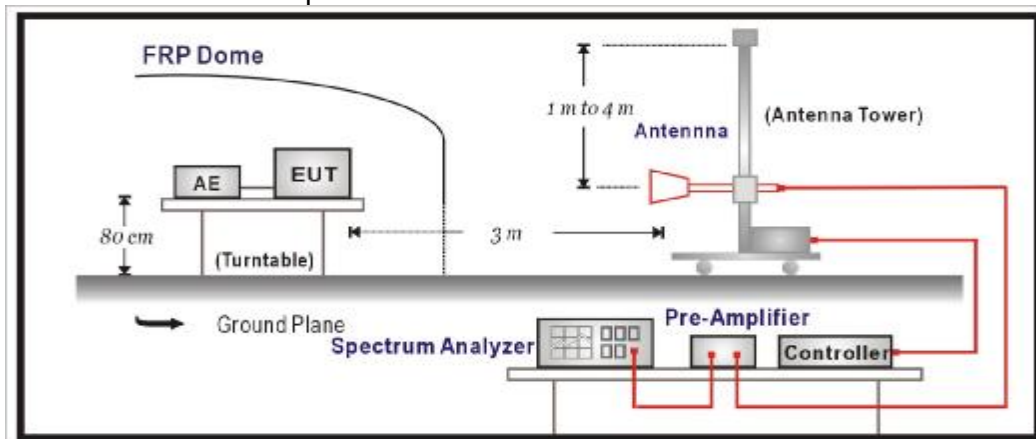
2. Last Cal showing "N/A" means it is used to Pre-test, not for final test.

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	dBuV/m	dBuV/m
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

Remarks: E field strength (dBuV/m) = 20 log E field strength (uV/m)

4.4. Test Procedure

The EUT was setup according to ANSI C63.4, 2003 and tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements. The EUT is placed on a turn table which is 0.8 meter above ground. The turn table is rotated 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 is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.4:2003 on radiated measurement.

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

The frequency range from 30MHz to 10th harmonic is checked.

4.5. Uncertainty

The measurement uncertainty

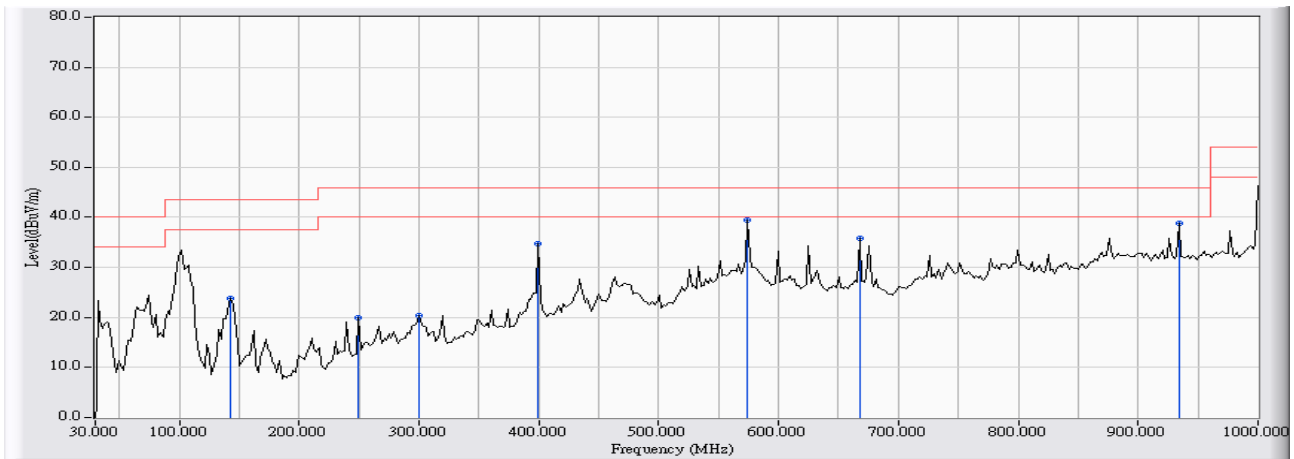
30MHz~1GHz as ±3.19dB

1GHz~26.5Ghz as ±3.9dB

4.6. Test Result

30MHz-1GHz Spurious

Site : Site 1	Time : 2008/07/11 - 20:47
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB3_FCC_30-1G(2007) - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless Router	Note : TX-B

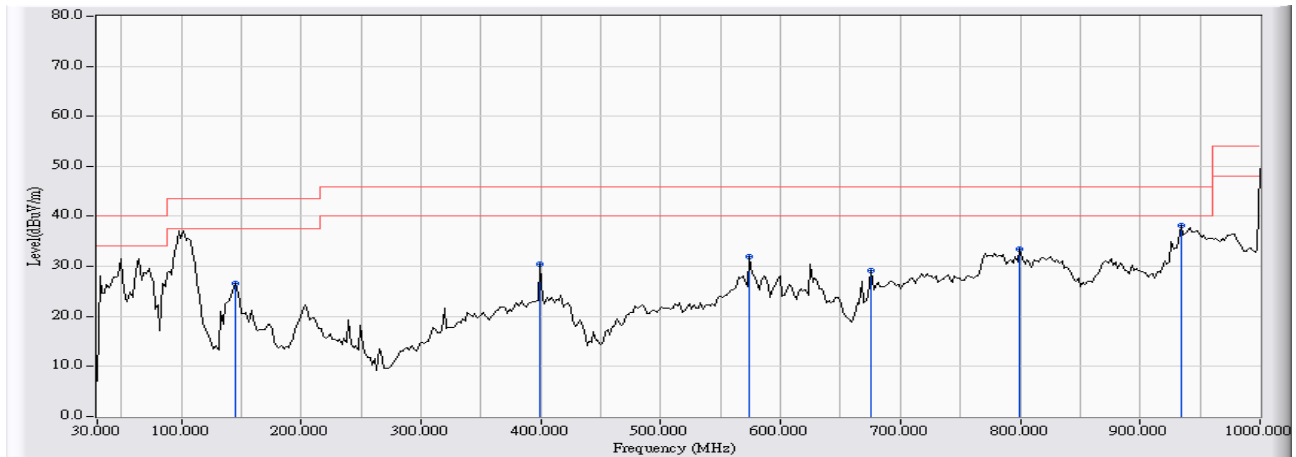


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	142.745	-11.177	34.934	23.757	-19.743	43.500	PEAK
2	249.659	-6.006	25.969	19.963	-26.037	46.000	PEAK
3	300.200	-0.016	20.418	20.401	-25.599	46.000	PEAK
4	399.339	5.189	29.457	34.646	-11.354	46.000	PEAK
5	* 574.289	9.710	29.677	39.387	-6.613	46.000	PEAK
6	667.595	6.963	28.910	35.873	-10.127	46.000	PEAK
7	933.908	10.692	28.134	38.825	-7.175	46.000	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

Site : Site 1	Time : 2008/07/11 - 20:52
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB3_FCC_30-1G(2007) - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless Router	Note : TX-B

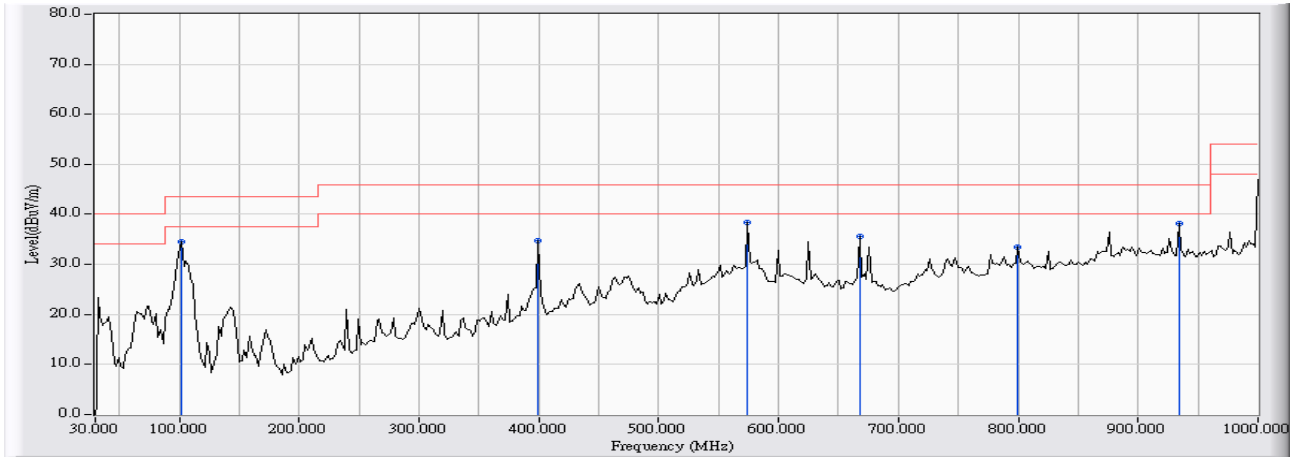


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	144.689	-2.423	28.956	26.533	-16.967	43.500	PEAK
2	399.339	3.575	26.877	30.452	-15.548	46.000	PEAK
3	574.289	7.134	24.757	31.891	-14.109	46.000	PEAK
4	675.371	5.022	24.239	29.261	-16.739	46.000	PEAK
5	799.780	10.822	22.738	33.560	-12.440	46.000	PEAK
6	* 933.908	14.040	24.131	38.171	-7.829	46.000	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

Site : Site 1	Time : 2008/07/11 - 20:58
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB3_FCC_30-1G(2007) - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless Router	Note : TX-G

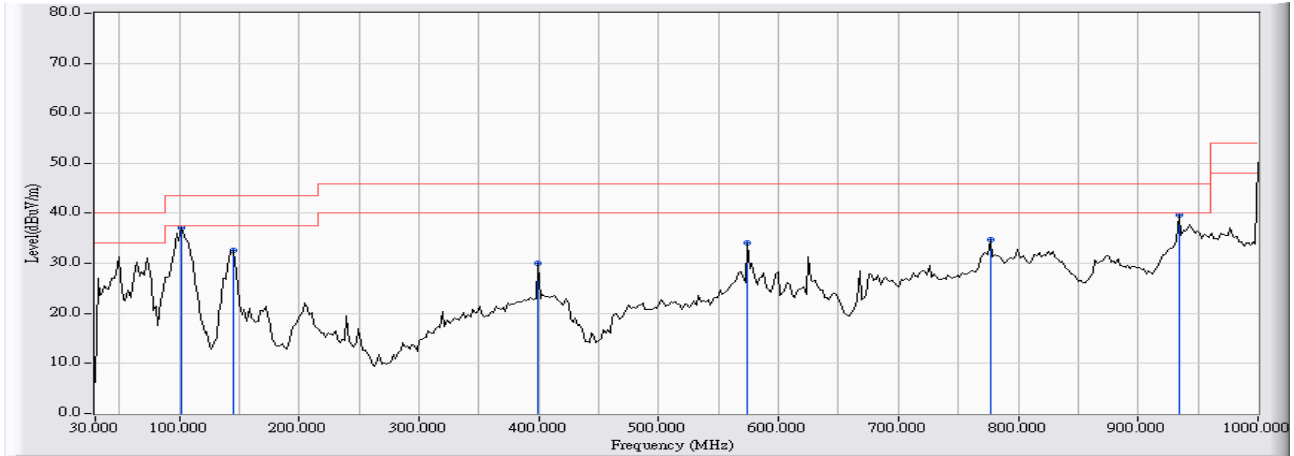


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	101.924	-6.000	40.561	34.561	-8.939	43.500	PEAK
2	399.339	5.189	29.478	34.667	-11.333	46.000	PEAK
3	* 574.289	9.710	28.619	38.329	-7.671	46.000	PEAK
4	667.595	6.963	28.702	35.665	-10.335	46.000	PEAK
5	799.780	9.412	23.956	33.368	-12.632	46.000	PEAK
6	933.908	10.692	27.530	38.221	-7.779	46.000	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

Site : Site 1	Time : 2008/07/11 - 21:01
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB3_FCC_30-1G(2007) - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless Router	Note : TX-G



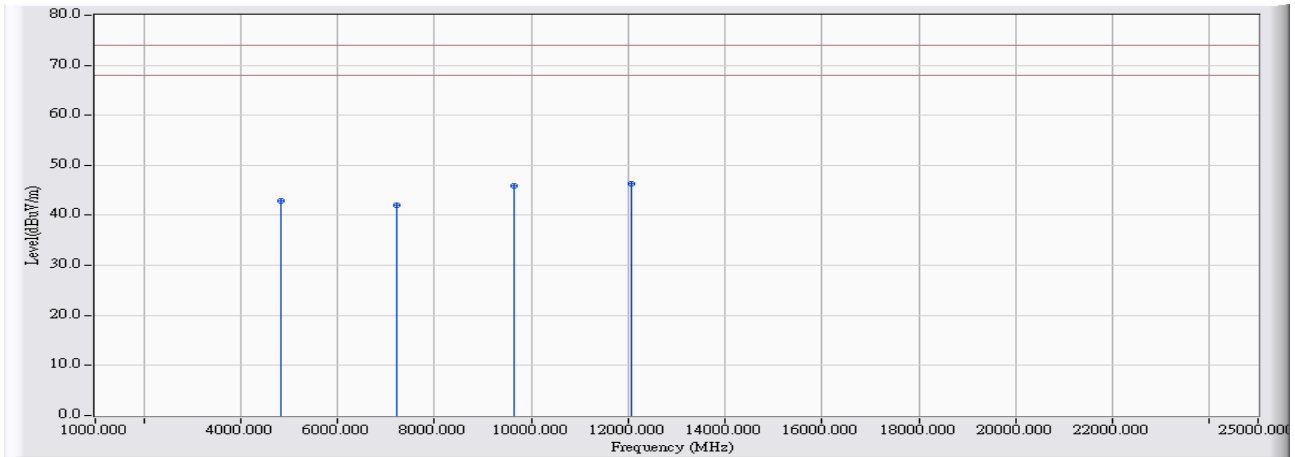
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	101.924	0.679	36.352	37.031	-6.469	43.500	PEAK
2	144.689	-2.423	35.018	32.595	-10.905	43.500	PEAK
3	399.339	3.575	26.419	29.994	-16.006	46.000	PEAK
4	574.289	7.134	26.878	34.012	-11.988	46.000	PEAK
5	776.453	11.415	23.234	34.649	-11.351	46.000	PEAK
6	* 933.908	14.040	25.540	39.580	-6.420	46.000	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

Harmonic & Spurious:

Site : Site 1	Time : 2008/07/11 - 22:33
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB3_FCC_1-18G(2007) - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless Router	Note : TX-B-CH1

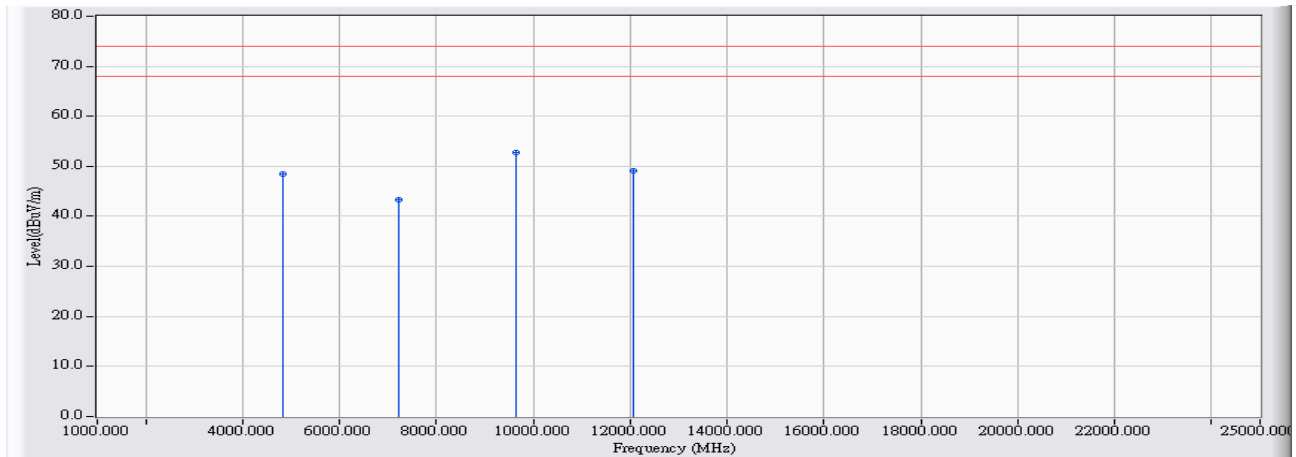


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	4824.030	3.734	39.190	42.923	-31.077	74.000	54.000	PEAK
2	7236.540	8.727	33.340	42.067	-31.933	74.000	54.000	PEAK
3	9647.880	12.707	33.290	45.997	-28.003	74.000	54.000	PEAK
4	* 12059.730	15.034	31.270	46.304	-27.696	74.000	54.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : Site 1	Time : 2008/07/11 - 22:54
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB3_FCC_1-18G(2007) - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless Router	Note : TX-B-CH1

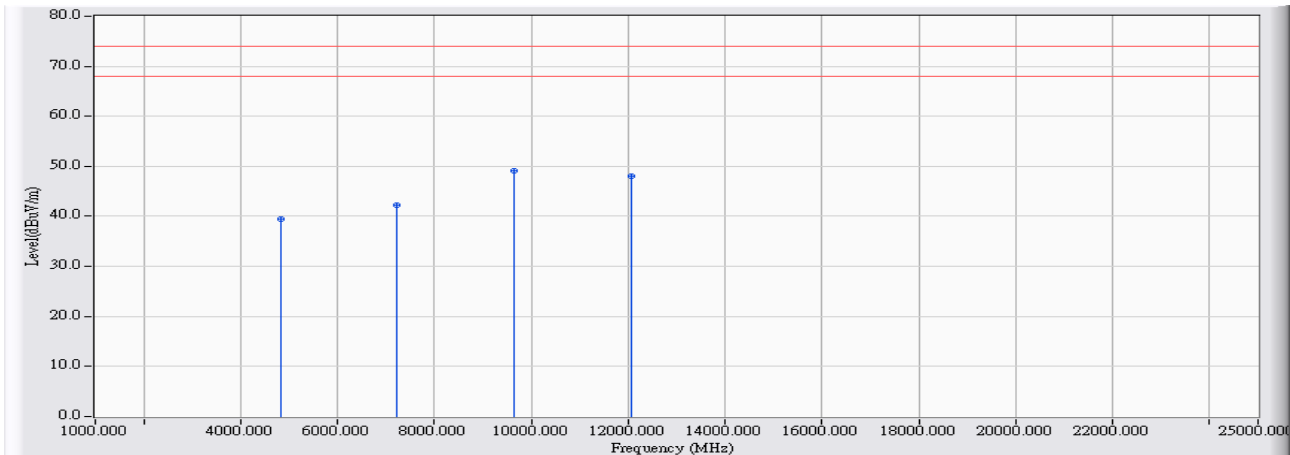


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	4824.030	1.982	46.530	48.511	-25.489	74.000	54.000	PEAK
2	7233.240	8.723	34.550	43.273	-30.727	74.000	54.000	PEAK
3	* 9647.960	14.707	38.000	52.707	-21.293	74.000	54.000	PEAK
4	12059.430	17.217	31.810	49.026	-24.974	74.000	54.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : Site 1	Time : 2008/07/12 - 00:56
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB3_FCC_1-18G(2007) - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless Router	Note : TX-G-CH1

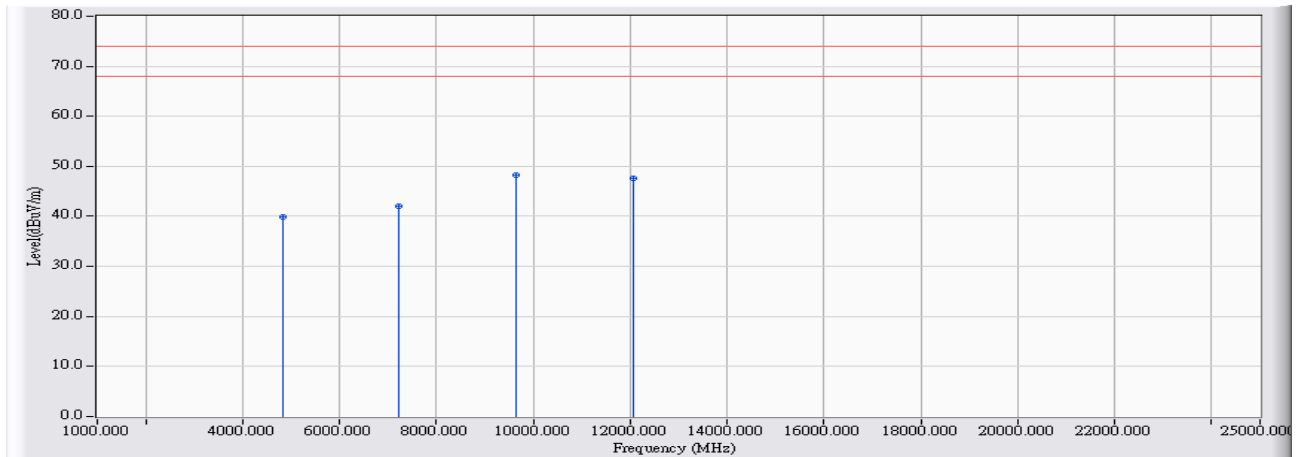


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	4818.530	3.694	35.690	39.384	-34.616	74.000	54.000	PEAK
2	7235.400	8.726	33.630	42.356	-31.644	74.000	54.000	PEAK
3	* 9648.150	14.706	34.410	49.117	-24.883	74.000	54.000	PEAK
4	12057.340	17.190	30.920	48.111	-25.889	74.000	54.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : Site 1	Time : 2008/07/12 - 01:24
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB3_FCC_1-18G(2007) - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless Router	Note : TX-G-CH1

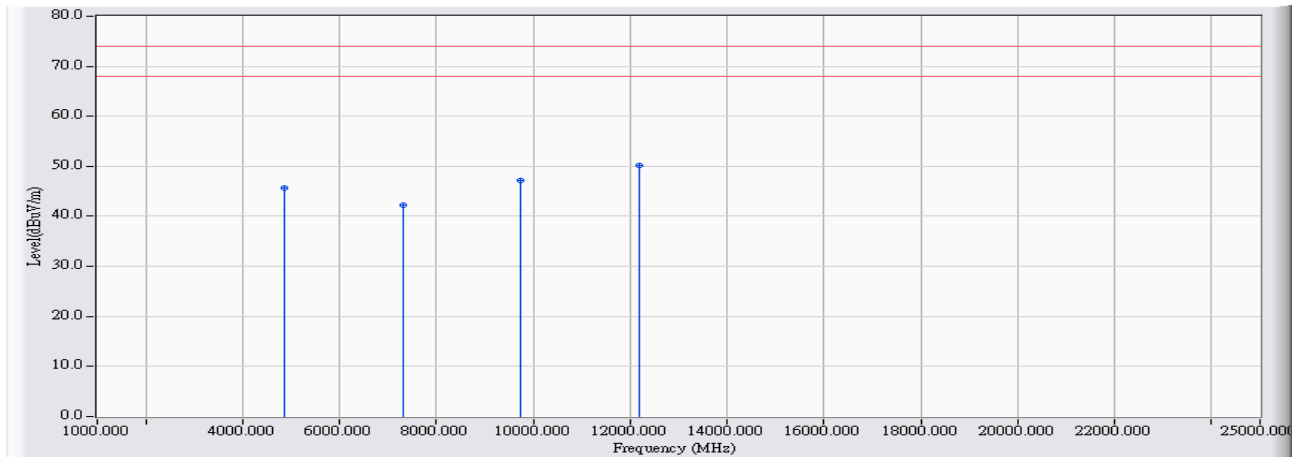


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	4825.650	1.997	37.930	39.926	-34.074	74.000	54.000	PEAK
2	7236.420	8.727	33.280	42.007	-31.993	74.000	54.000	PEAK
3	* 9647.790	14.707	33.470	48.177	-25.823	74.000	54.000	PEAK
4	12060.080	17.225	30.420	47.645	-26.355	74.000	54.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : Site 1	Time : 2008/07/11 - 23:40
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB3_FCC_1-18G(2007) - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless Router	Note : TX-B-CH6

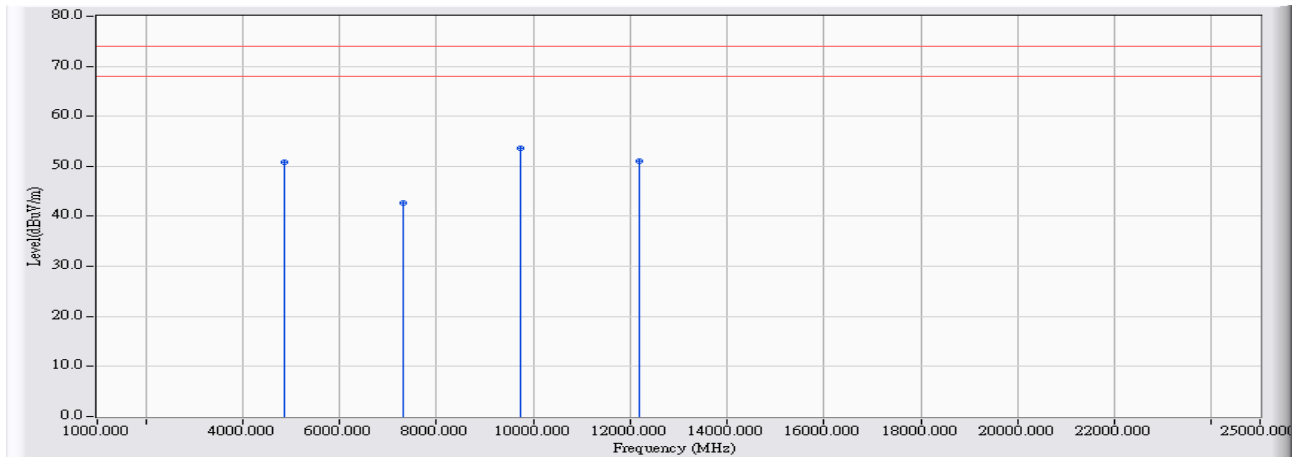


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	4874.030	4.087	41.650	45.737	-28.263	74.000	54.000	PEAK
2	7311.500	8.845	33.370	42.215	-31.785	74.000	54.000	PEAK
3	9748.110	13.134	34.020	47.154	-26.846	74.000	54.000	PEAK
4	* 12184.570	18.995	31.130	50.125	-23.875	74.000	54.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : Site 1	Time : 2008/07/11 - 23:41
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB3_FCC_1-18G(2007) - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless Router	Note : TX-B-CH6

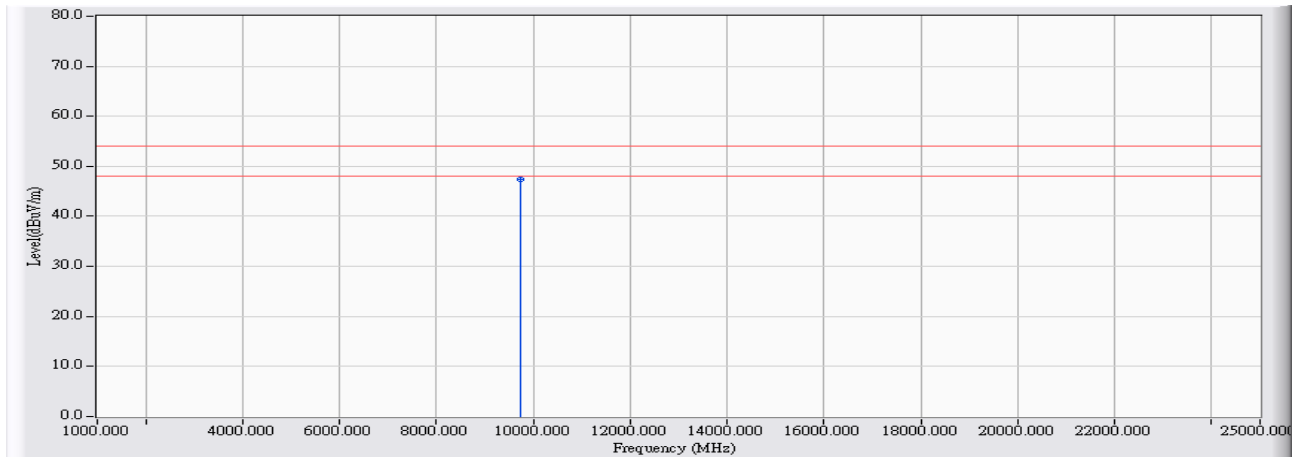


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	4874.030	2.434	48.360	50.794	-23.206	74.000	54.000	PEAK
2	7308.690	8.842	33.790	42.632	-31.368	74.000	54.000	PEAK
3	* 9747.800	15.131	38.440	53.572	-20.428	74.000	54.000	PEAK
4	12184.330	19.376	31.650	51.027	-22.973	74.000	54.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : Site 1	Time : 2008/07/11 - 23:53
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB3_FCC_1-18G(2007) - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless Router	Note : TX-B-CH6

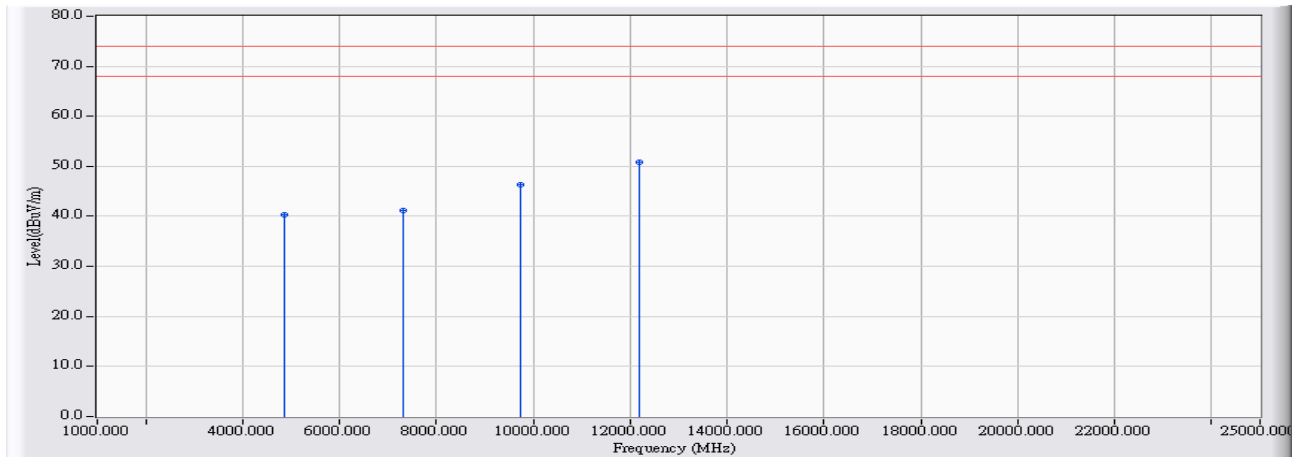


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	*	9748.110	15.134	32.210	47.344	-6.656	74.000	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : Site 1	Time : 2008/07/12 - 02:18
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB3_FCC_1-18G(2007) - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless Router	Note : TX-G-CH6

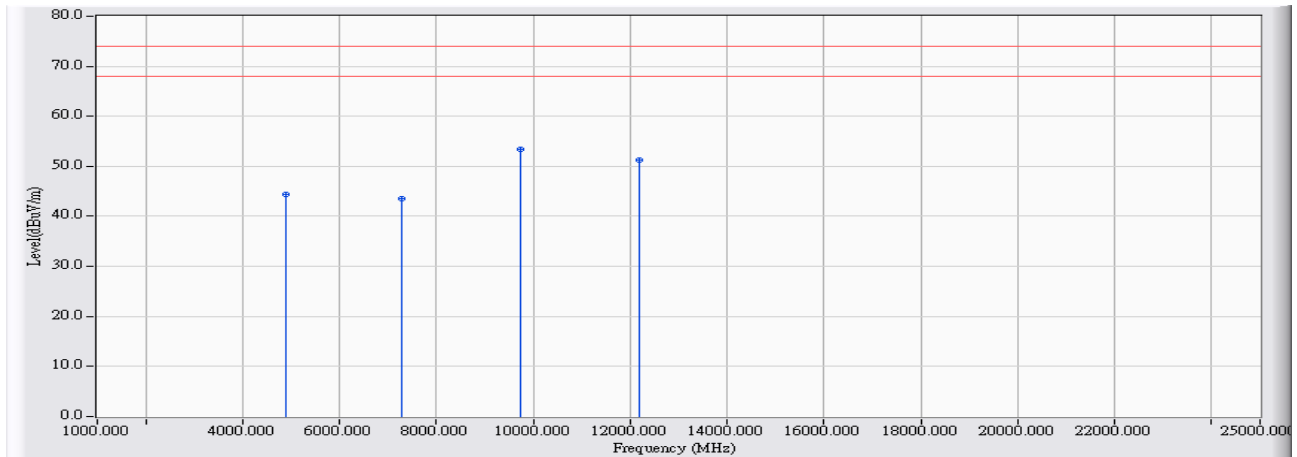


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	4874.540	4.091	36.200	40.291	-33.709	74.000	54.000	PEAK
2	7309.670	8.844	32.290	41.133	-32.867	74.000	54.000	PEAK
3	9747.920	13.134	33.300	46.433	-27.567	74.000	54.000	PEAK
4	* 12184.760	18.996	31.760	50.756	-23.244	74.000	54.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : Site 1	Time : 2008/07/12 - 02:27
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB3_FCC_1-18G(2007) - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless Router	Note : TX-G-CH6

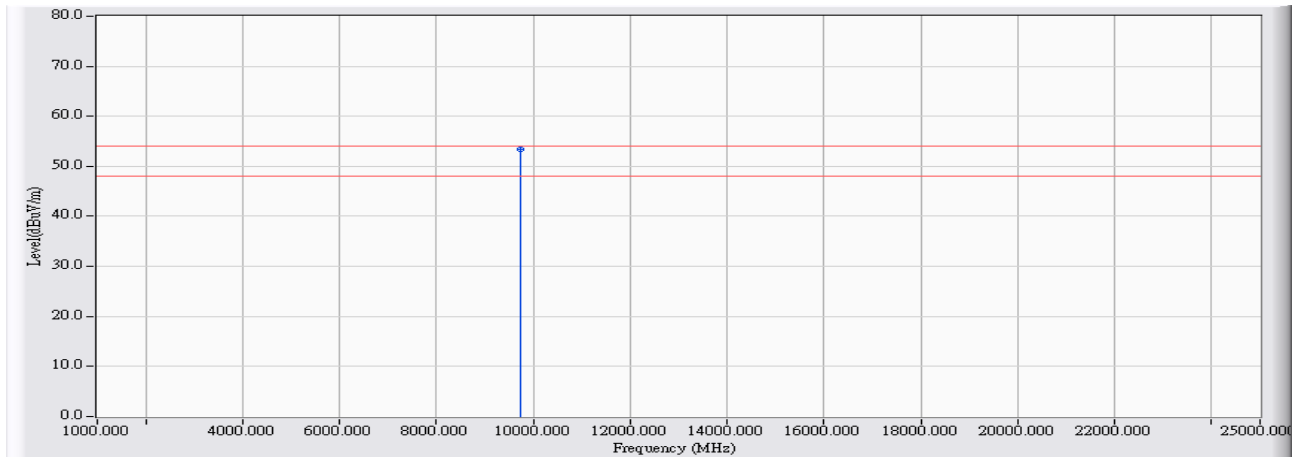


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	4881.110	2.495	41.990	44.485	-29.515	74.000	54.000	PEAK
2	7295.290	8.819	34.670	43.489	-30.511	74.000	54.000	PEAK
3	* 9748.070	15.134	38.280	53.413	-20.587	74.000	54.000	PEAK
4	12185.230	19.394	31.830	51.225	-22.775	74.000	54.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : Site 1	Time : 2008/07/12 - 02:30
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB3_FCC_1-18G(2007) - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless Router	Note : TX-G-CH6

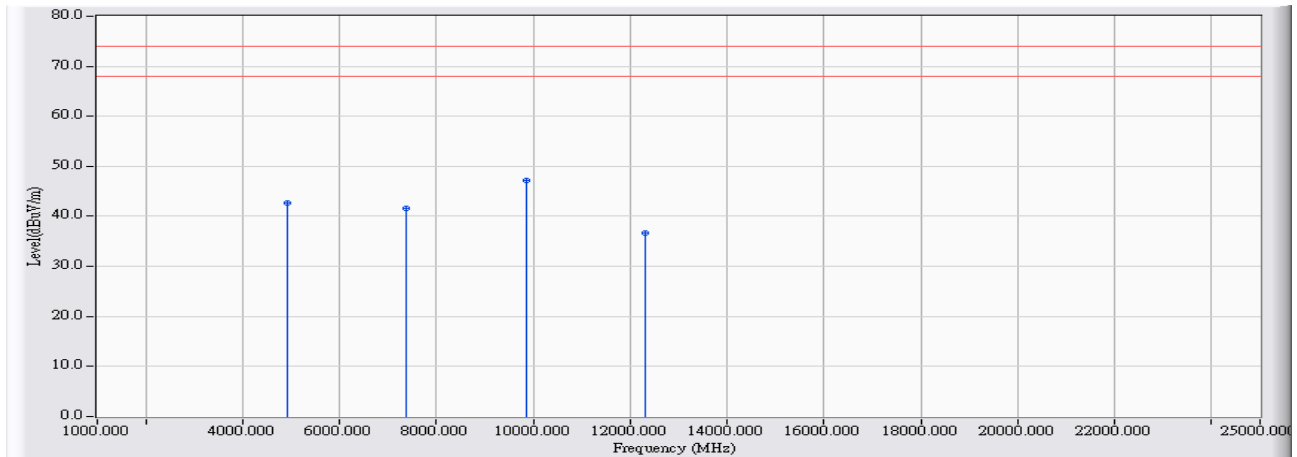


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	*	9748.070	15.134	38.280	53.413	-0.587	74.000	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : Site 1	Time : 2008/07/12 - 00:06
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB3_FCC_1-18G(2007) - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless Router	Note : TX-B-CH11

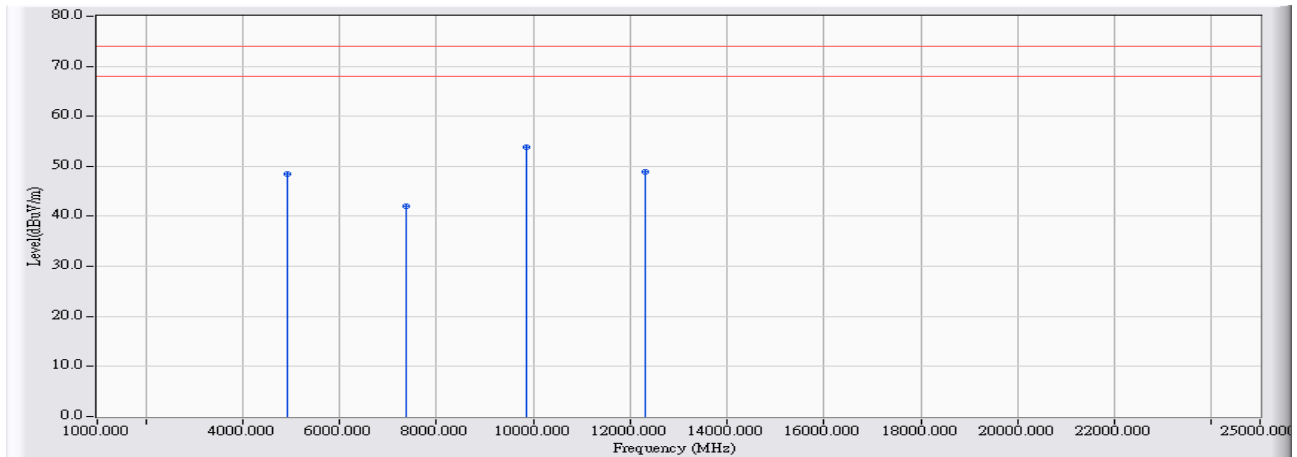


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	4923.800	4.381	38.300	42.681	-31.319	74.000	54.000	PEAK
2	7385.020	8.942	32.750	41.692	-32.308	74.000	54.000	PEAK
3	* 9848.030	13.836	33.430	47.266	-26.734	74.000	54.000	PEAK
4	12310.110	6.451	30.250	36.701	-37.299	74.000	54.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : Site 1	Time : 2008/07/12 - 00:38
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB3_FCC_1-18G(2007) - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless Router	Note : TX-B-CH11

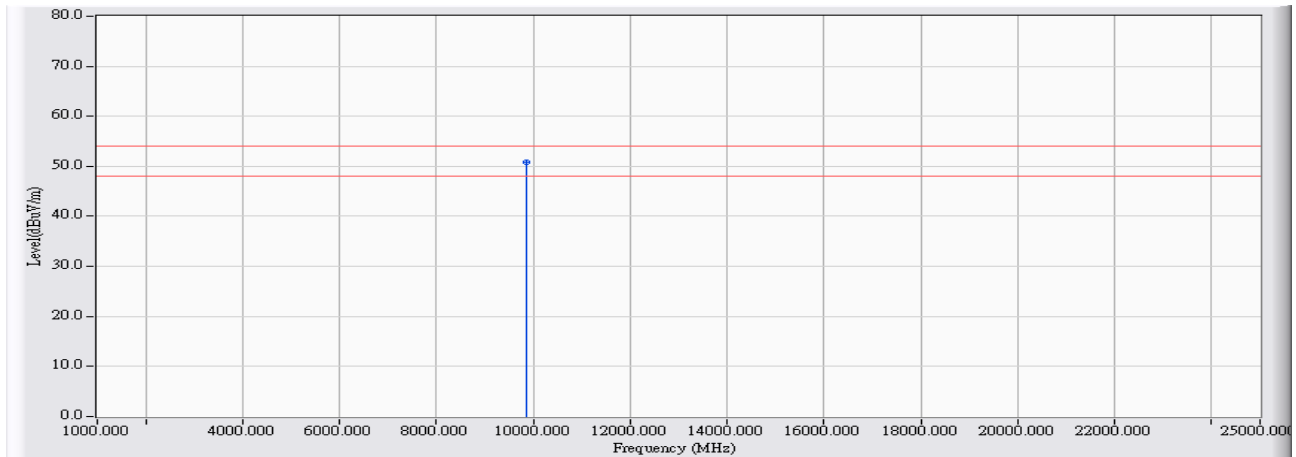


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	4924.030	2.835	45.650	48.484	-25.516	74.000	54.000	PEAK
2	7385.490	8.942	33.150	42.092	-31.908	74.000	54.000	PEAK
3	* 9848.030	15.355	38.540	53.895	-20.105	74.000	54.000	PEAK
4	12309.900	17.905	31.030	48.935	-25.065	74.000	54.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : Site 1	Time : 2008/07/12 - 00:39
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB3_FCC_1-18G(2007) - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless Router	Note : TX-B-CH11

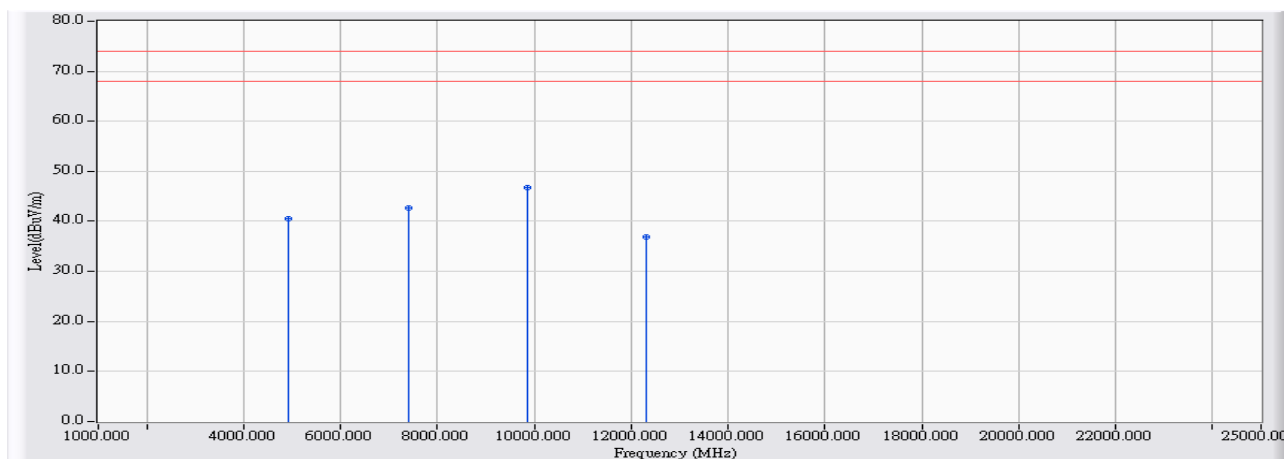


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	*	9848.030	15.355	35.460	50.815	-3.185	74.000	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : Site 1	Time : 2008/07/12 - 02:43
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB3_FCC_1-18G(2007) - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless Router	Note : TX-G-CH11

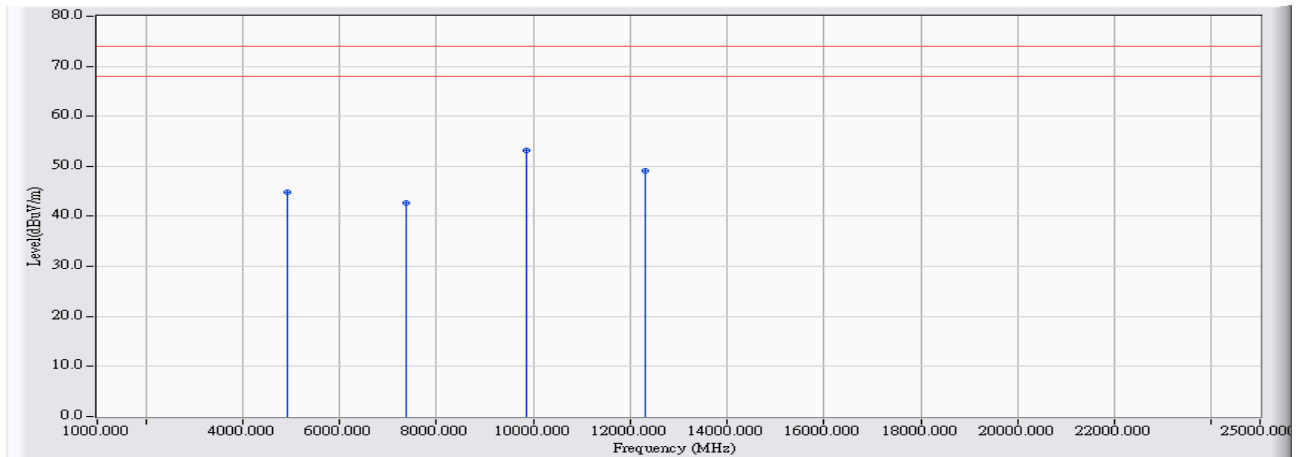


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	4919.700	4.368	36.270	40.639	-33.361	74.000	54.000	PEAK
2	7393.890	8.953	33.780	42.733	-31.267	74.000	54.000	PEAK
3	* 9847.920	13.835	32.920	46.755	-27.245	74.000	54.000	PEAK
4	12308.350	6.168	30.670	36.838	-37.162	74.000	54.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : Site 1	Time : 2008/07/12 - 02:49
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB3_FCC_1-18G(2007) - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless Router	Note : TX-G-CH11

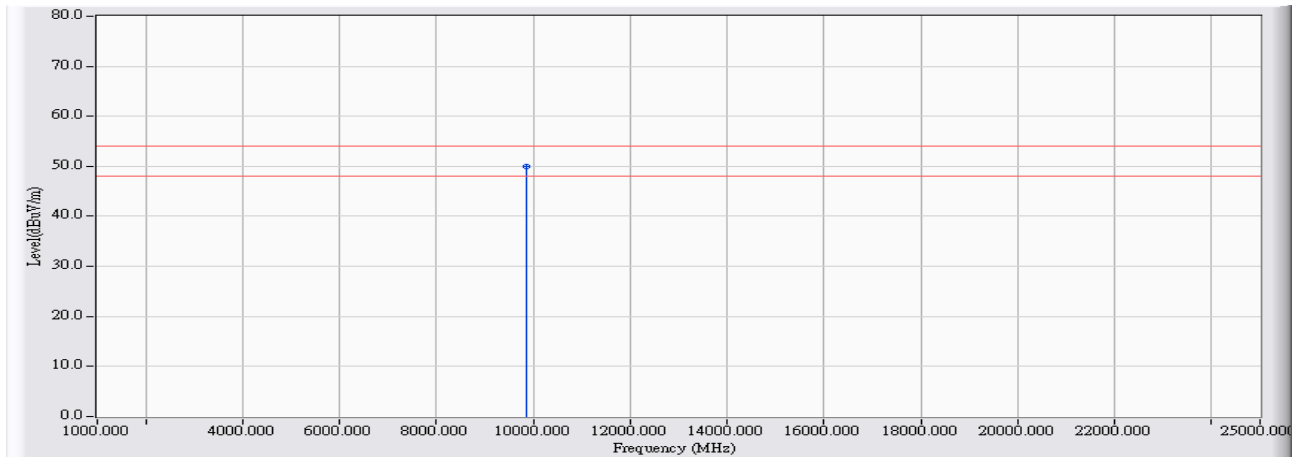


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	4931.260	2.859	41.910	44.770	-29.230	74.000	54.000	PEAK
2	7389.930	8.948	33.720	42.668	-31.332	74.000	54.000	PEAK
3	* 9847.920	15.356	37.860	53.215	-20.785	74.000	54.000	PEAK
4	12309.940	17.904	31.150	49.054	-24.946	74.000	54.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : Site 1	Time : 2008/07/12 - 03:06
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB3_FCC_1-18G(2007) - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless Router	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	*	9848.050	15.355	34.640	49.995	-4.005	74.000	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

5. RF antenna conducted test

5.1. Test Equipment

The following test equipments are used during the test:

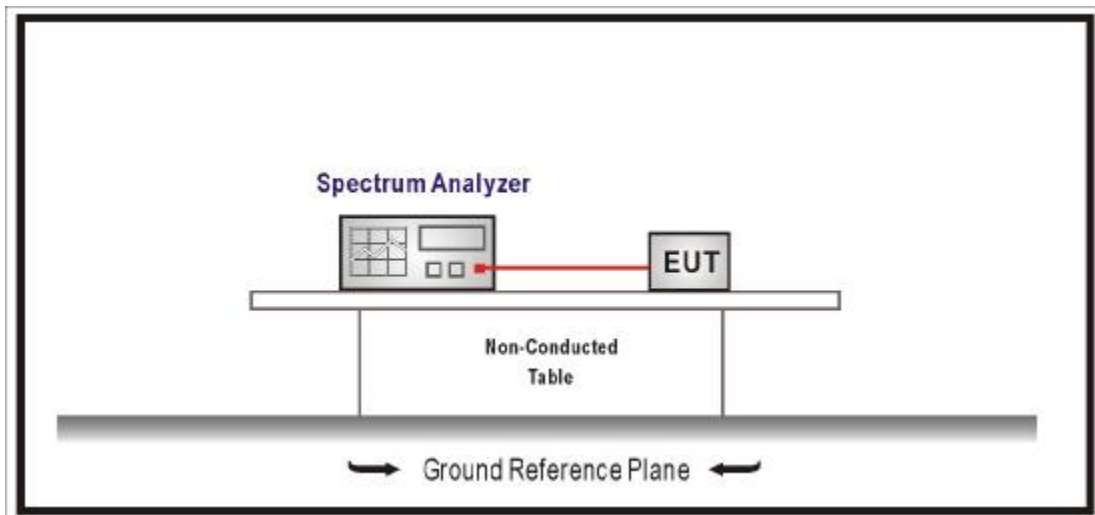
RF Conducted Measurement:				
Item	Equipment	Manufacturer	Model No. / Serial No.	Last Cal.
1	Spectrum Analyzer	R & S	FSP / 100561	Jan., 2008
2	No.1 OATS			Sep., 2007

Note: 1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

2. Test instruments are marked with "X" are used to measure the final test results.

5.2. Test Setup

RF Antenna Conducted 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 an RF conducted or 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 was tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

Set RBW = 100 kHz, Set VBW > RBW, scan up through 10th harmonic.

5.5. Uncertainty

The measurement uncertainty

Conducted is defined as $\pm 1.27\text{dB}$

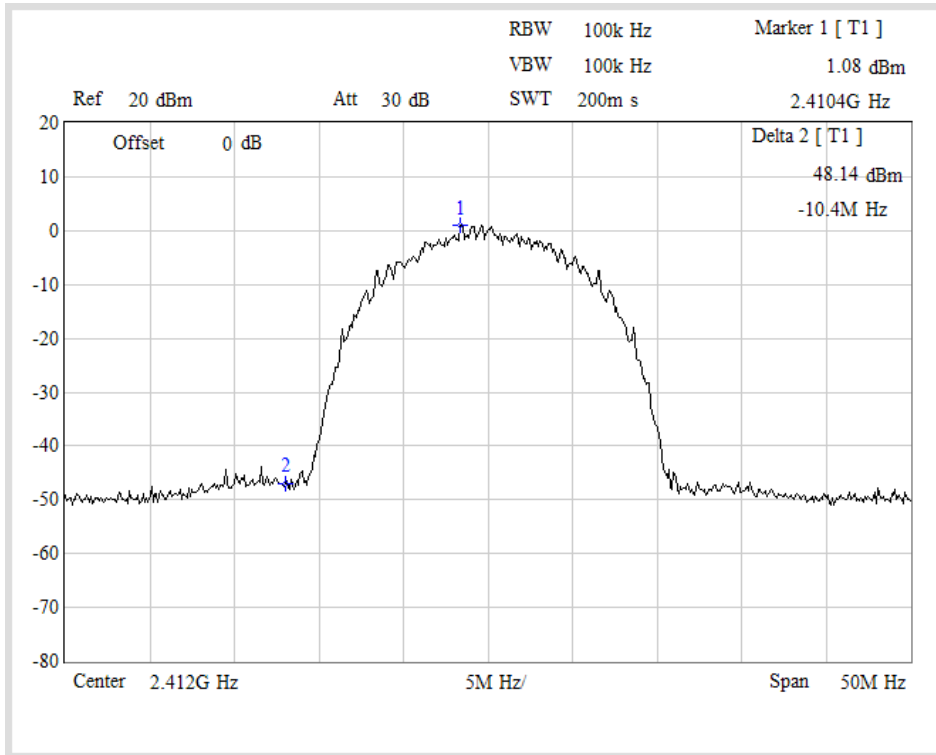
Radiated is defined as $\pm 3.9\text{dB}$

5.6. Test Result

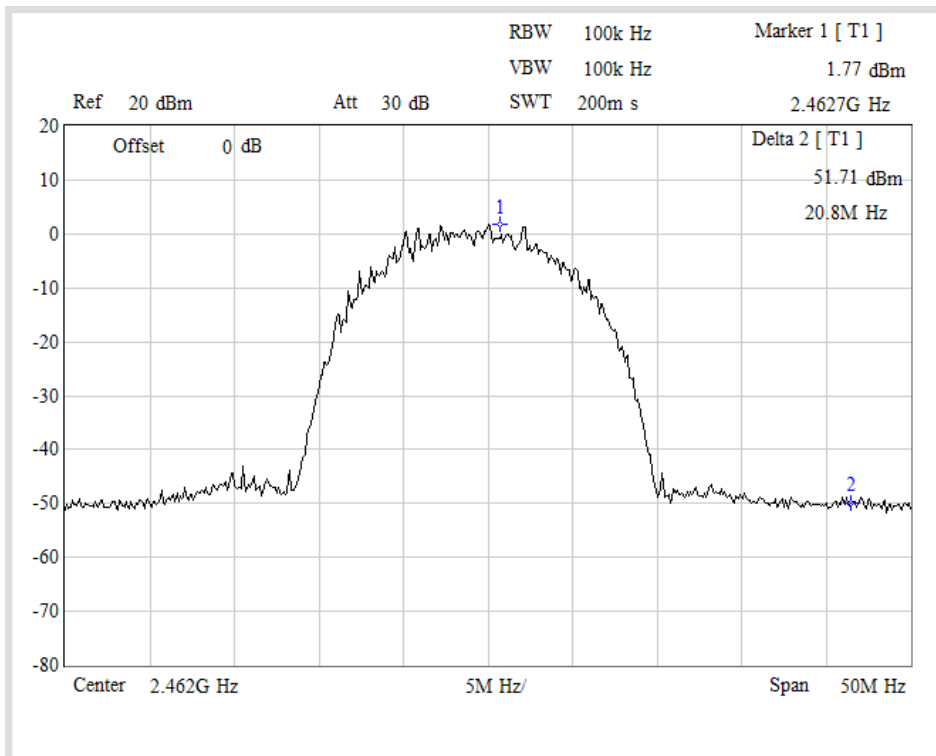
Product	Wireless Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2008/07/14	Test Site	No.1 OATS

802.11 b				
Channel No.	Frequency (MHz)	Measurement Level (dB)	Required Limit (dB)	Result
1	2412.00	48.14	>30	Pass
11	2462.00	51.71	>30	Pass

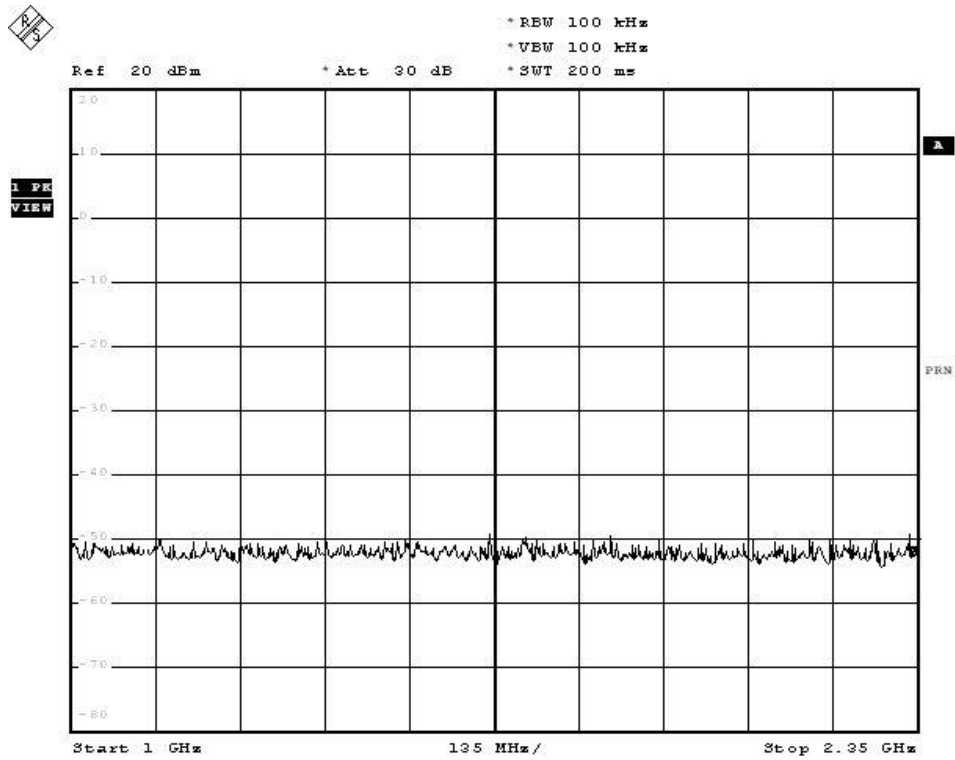
Channel 01 (2412MHz)



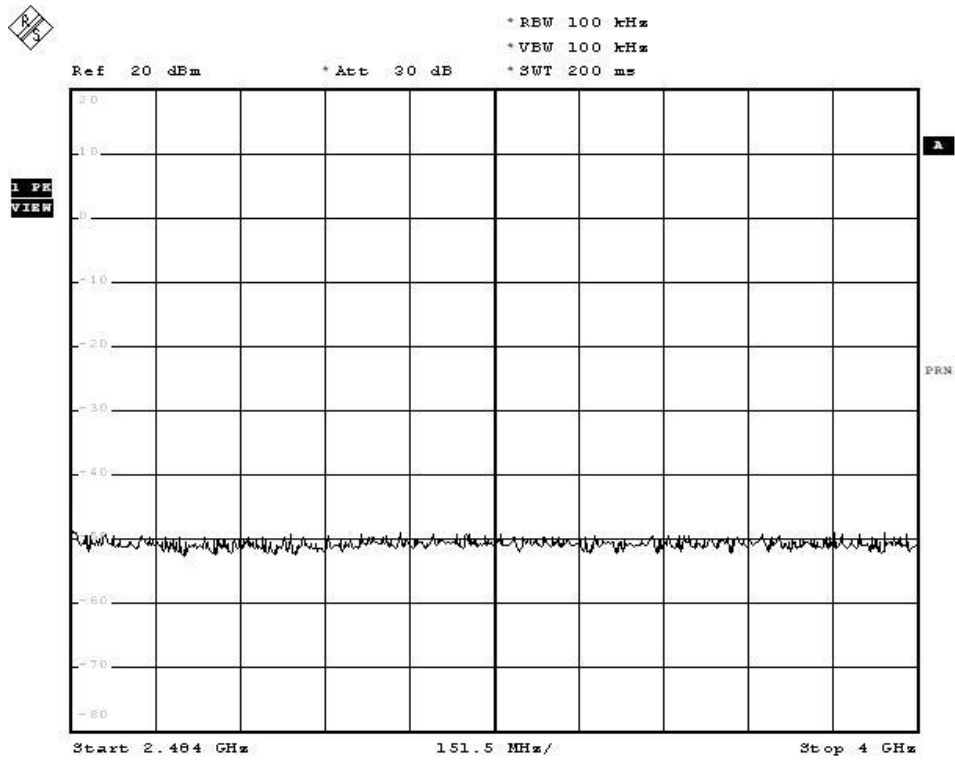
Channel 11 (2462MHz)



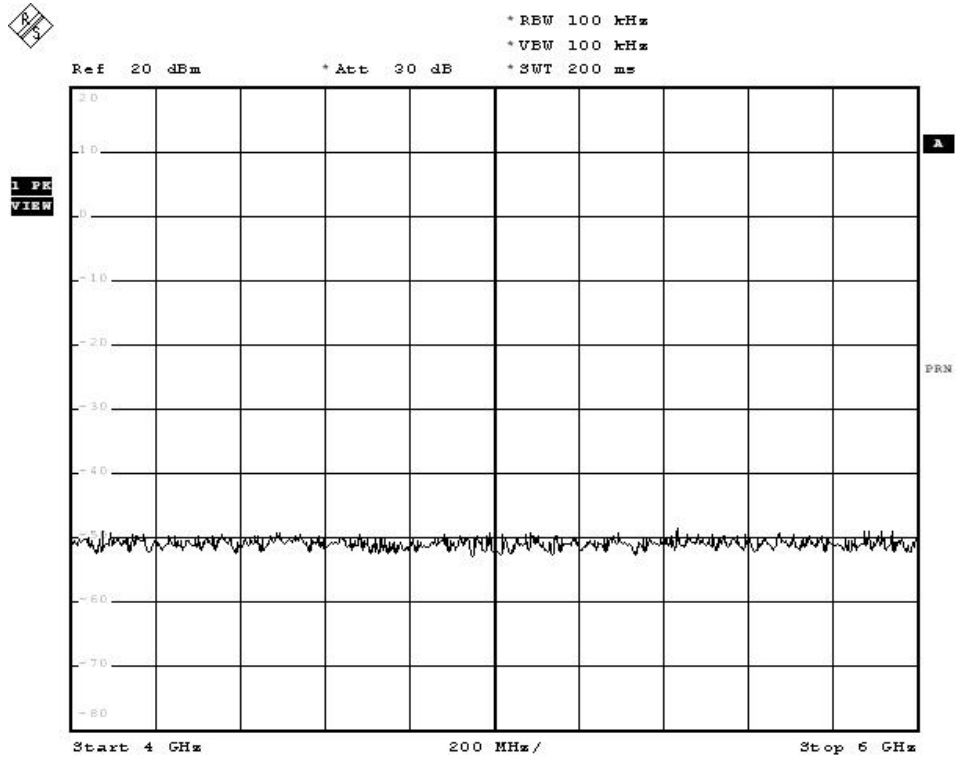
CH1-(2.35GHz)



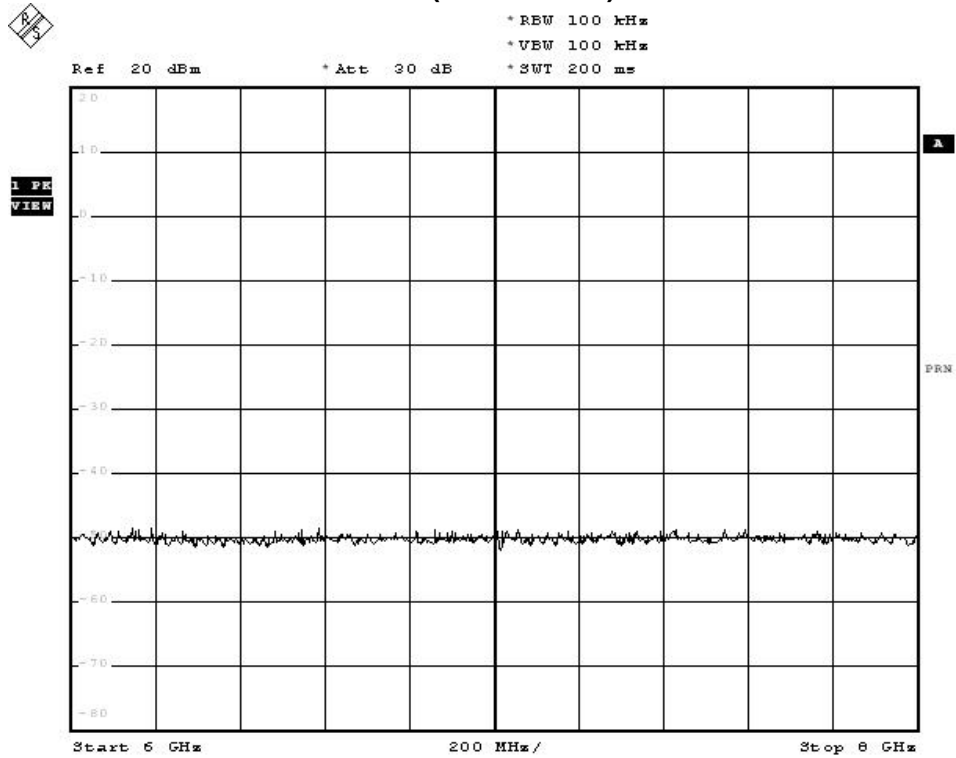
CH11-(2.484GHz~4GHz)



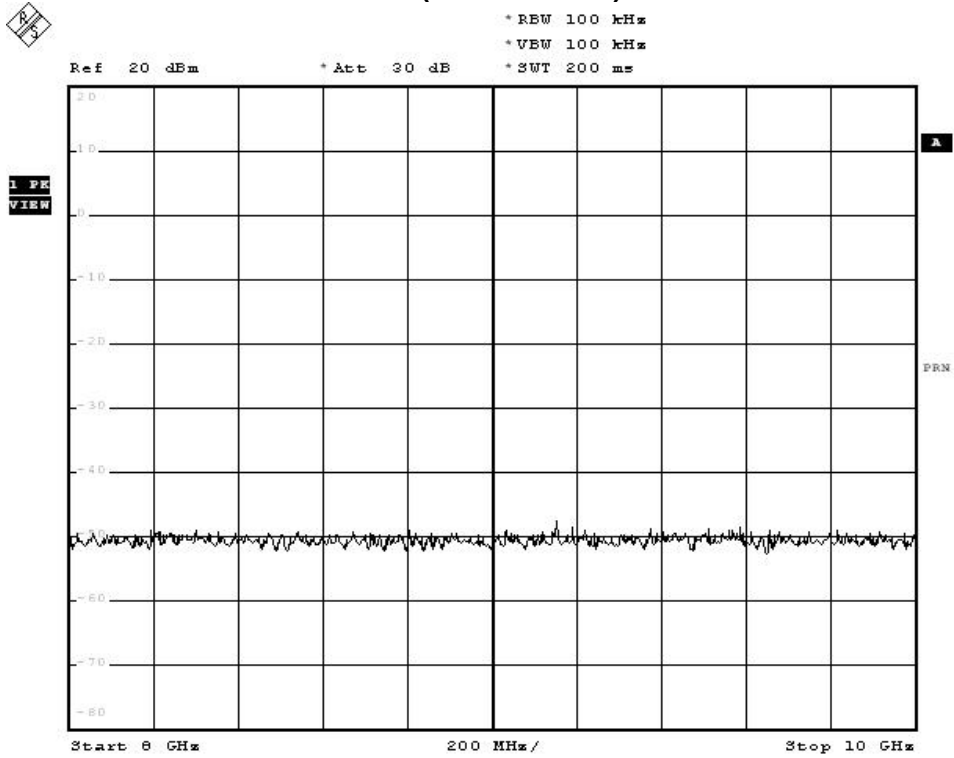
CH11-(4GHz~6GHz)



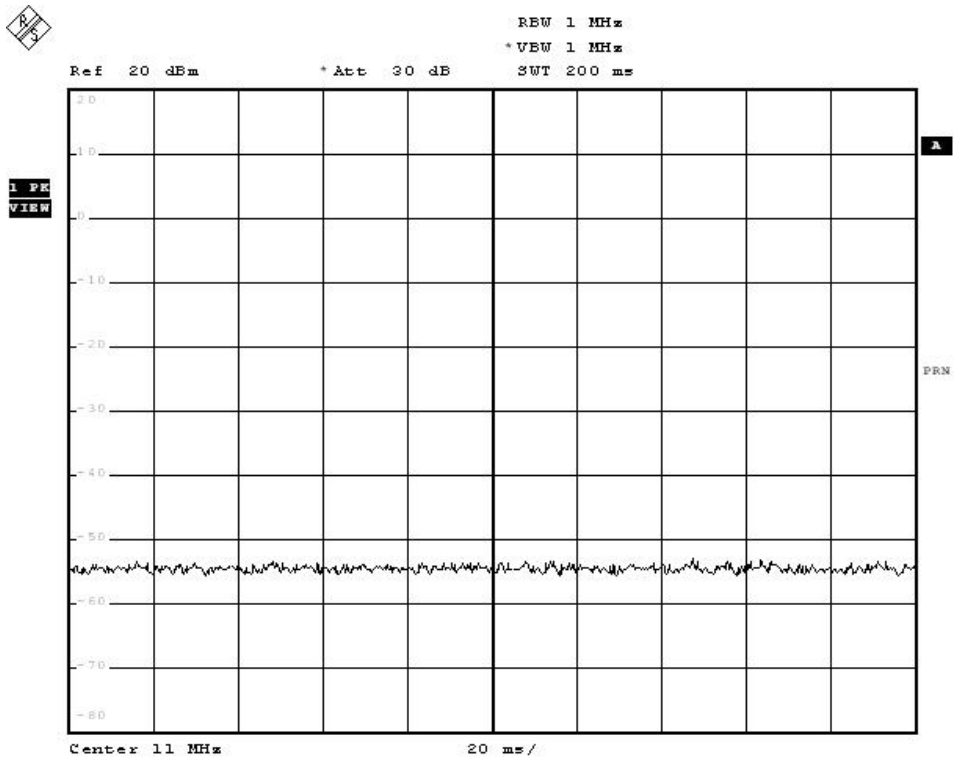
CH11-(6GHz~8GHz)



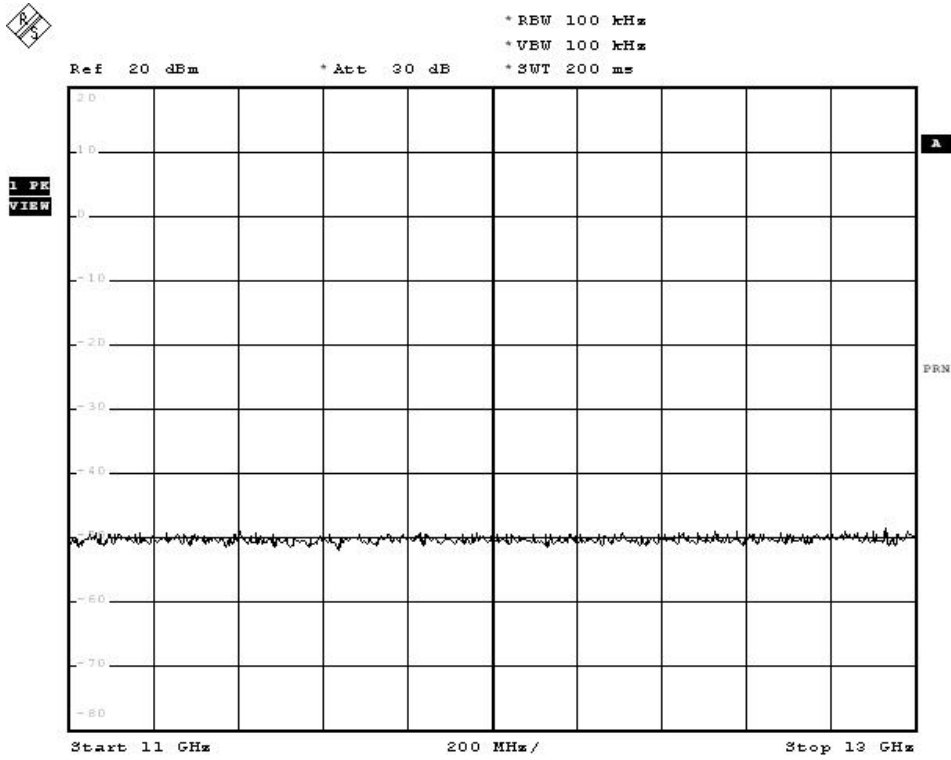
CH11-(8GHz~10GHz)



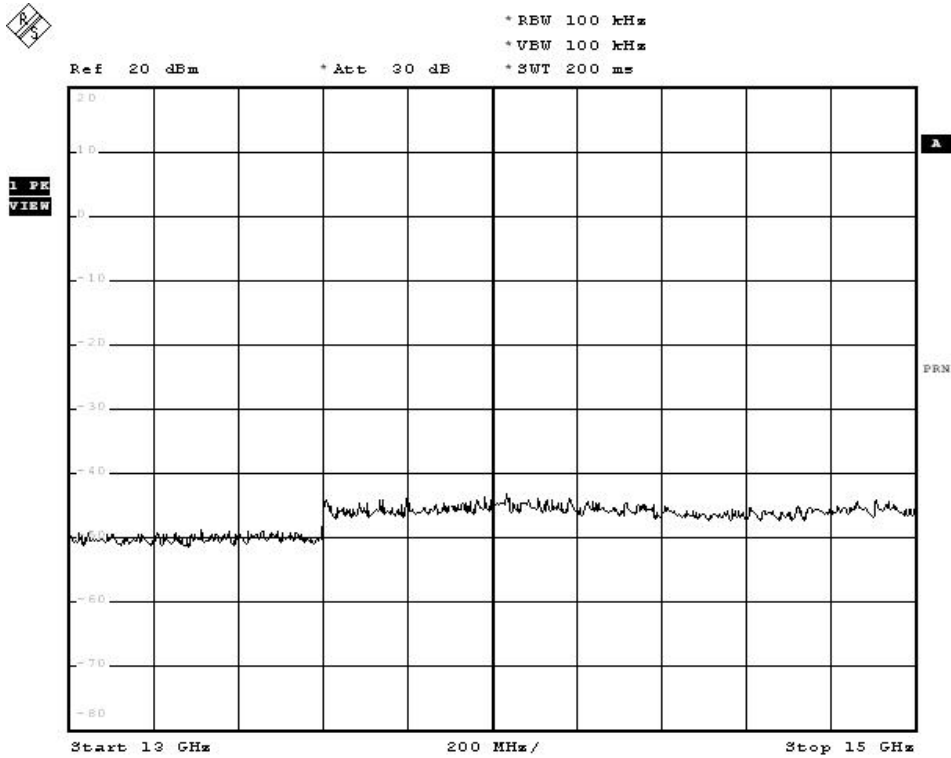
CH11-(10GHz~11GHz)



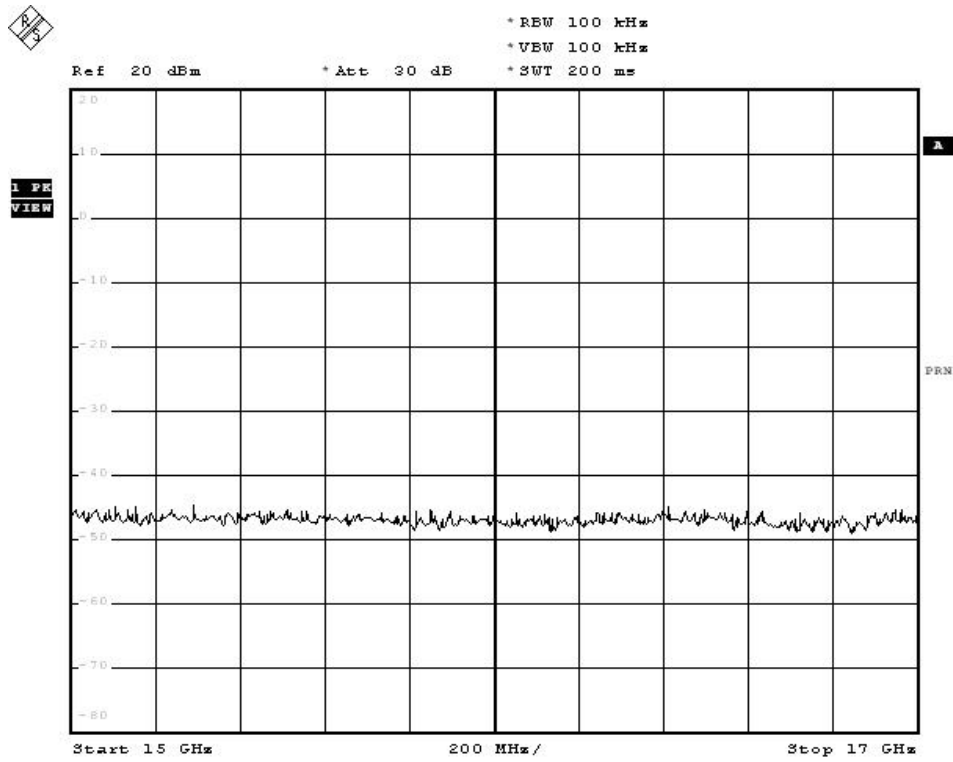
CH11-(11GHz~13GHz)



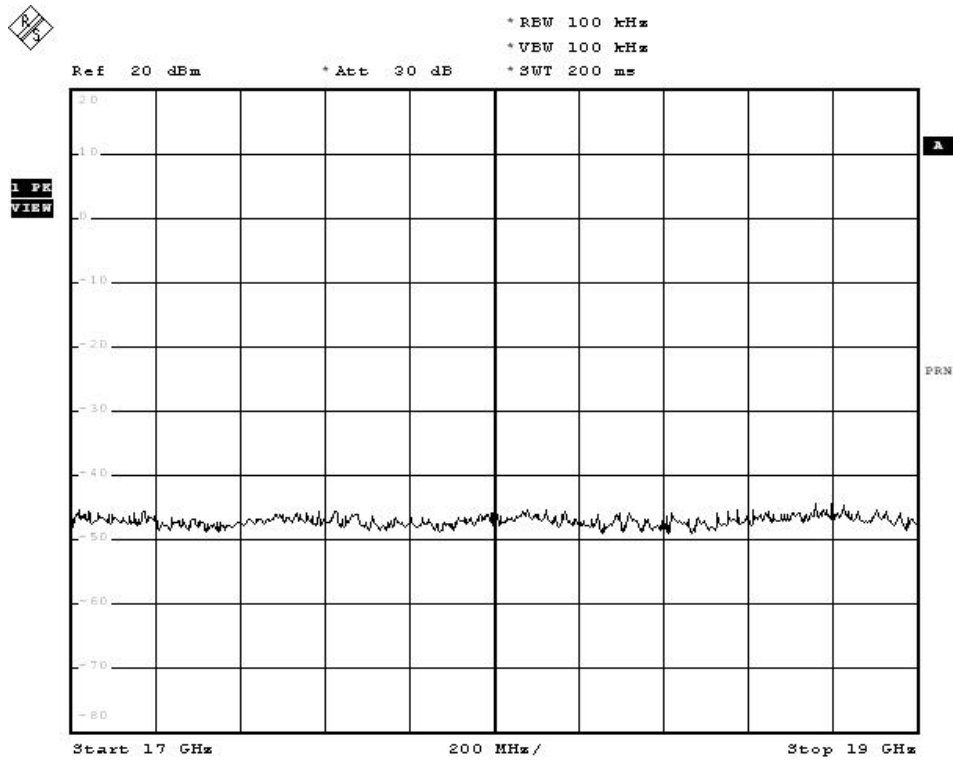
CH11-(13GHz~15GHz)



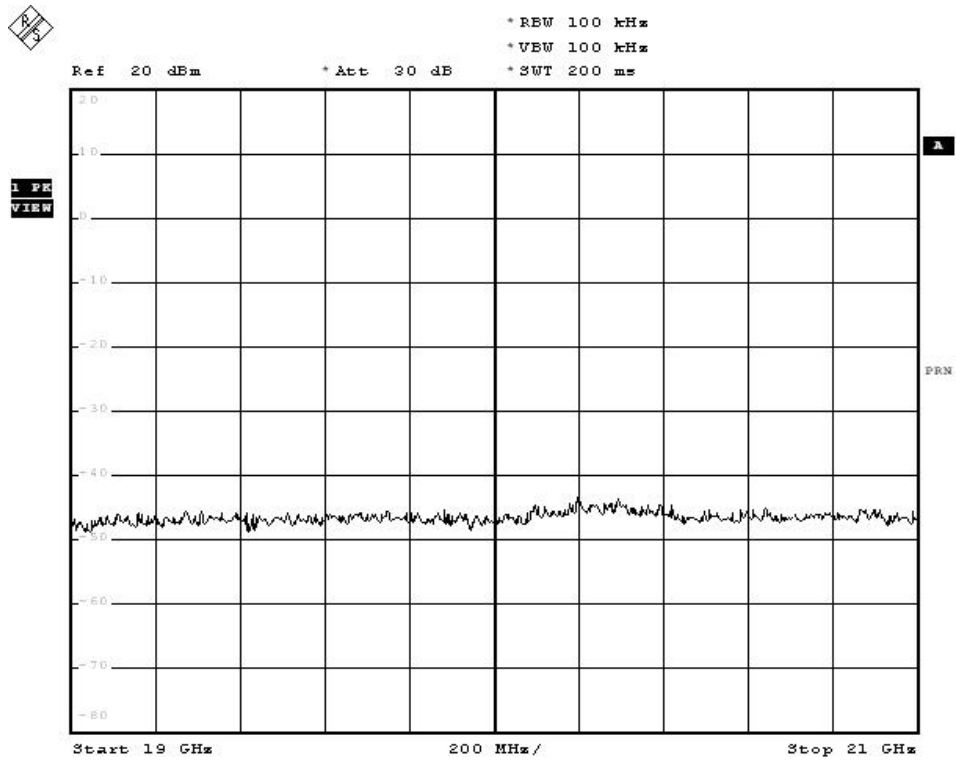
CH11-(15GHz~17GHz)



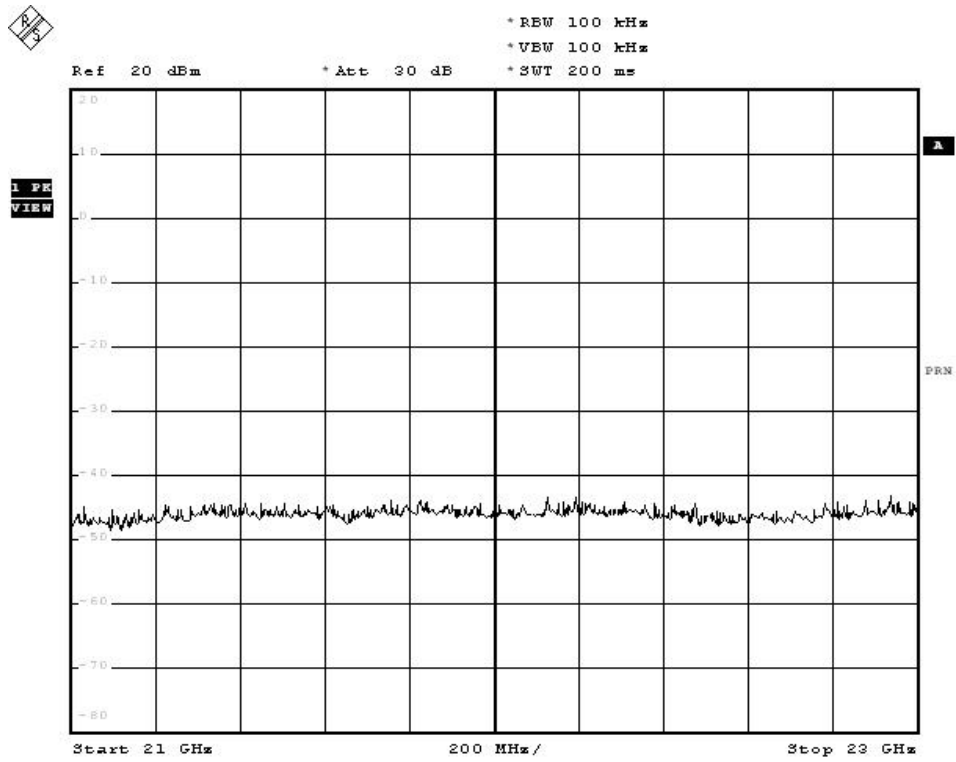
CH11-(17GHz~19GHz)



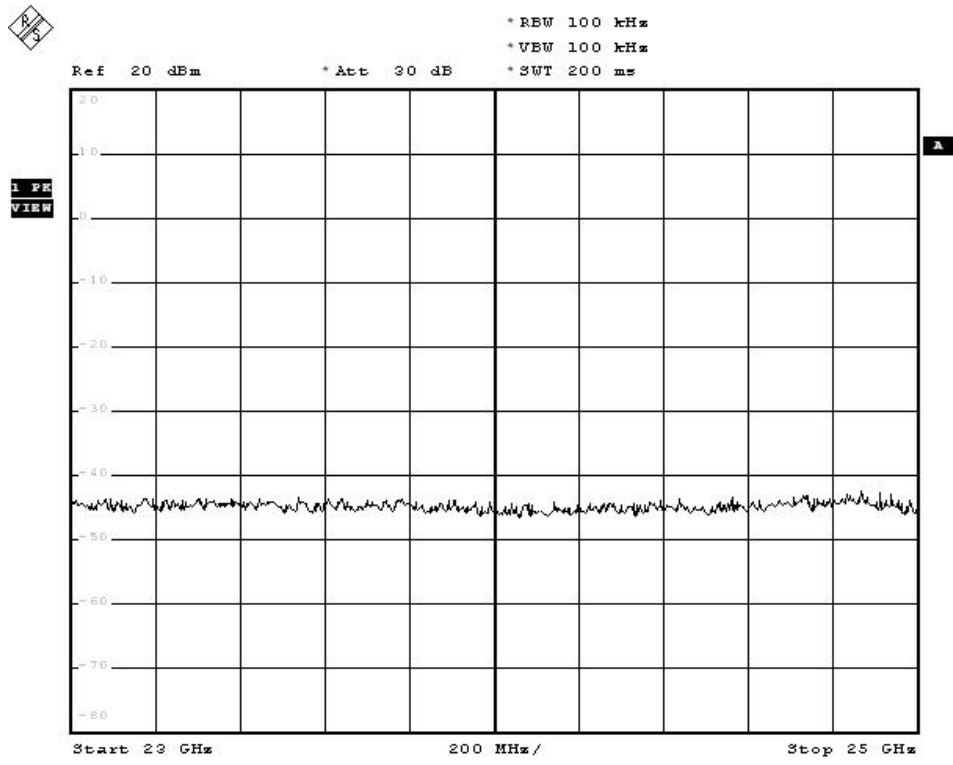
CH11-(19GHz~21GHz)



CH11-(21GHz~23GHz)



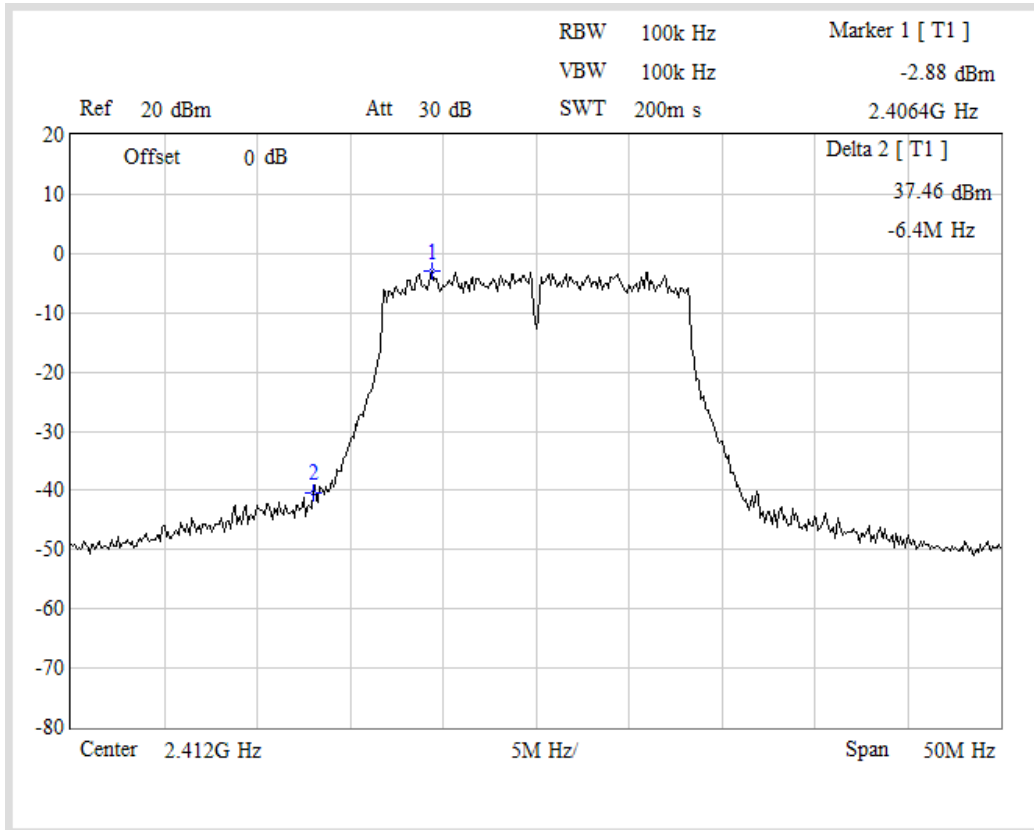
CH11-(23GHz~25GHz)



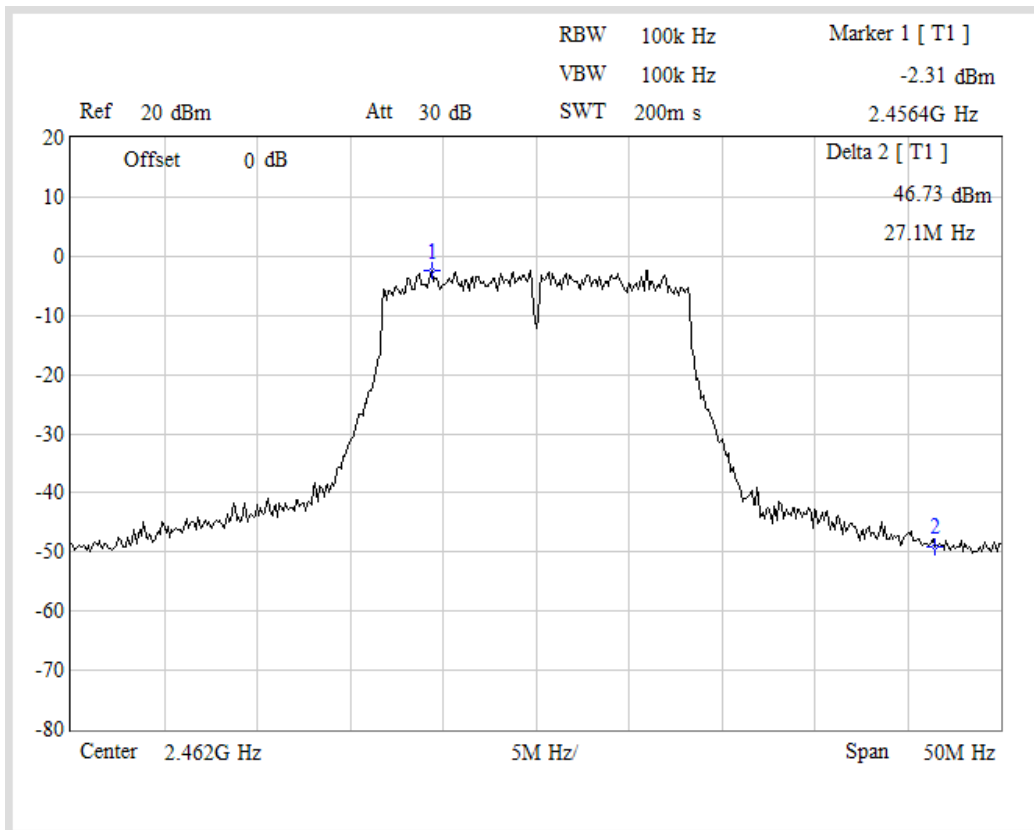
Product	Wireless Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2008/07/14	Test Site	No.1 OATS

802.11 g				
Channel No.	Frequency (MHz)	Measurement Level (dB)	Required Limit (dB)	Result
1	2412.00	37.46	>30	Pass
11	2462.00	46.73	>30	Pass

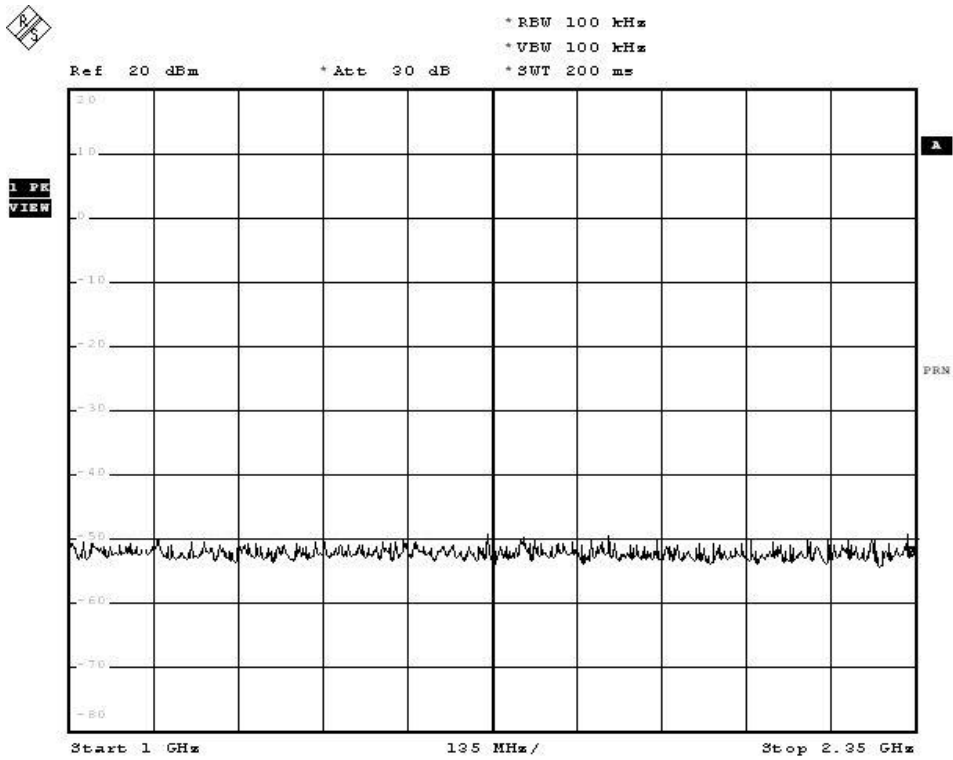
Channel 01 (2412MHz)



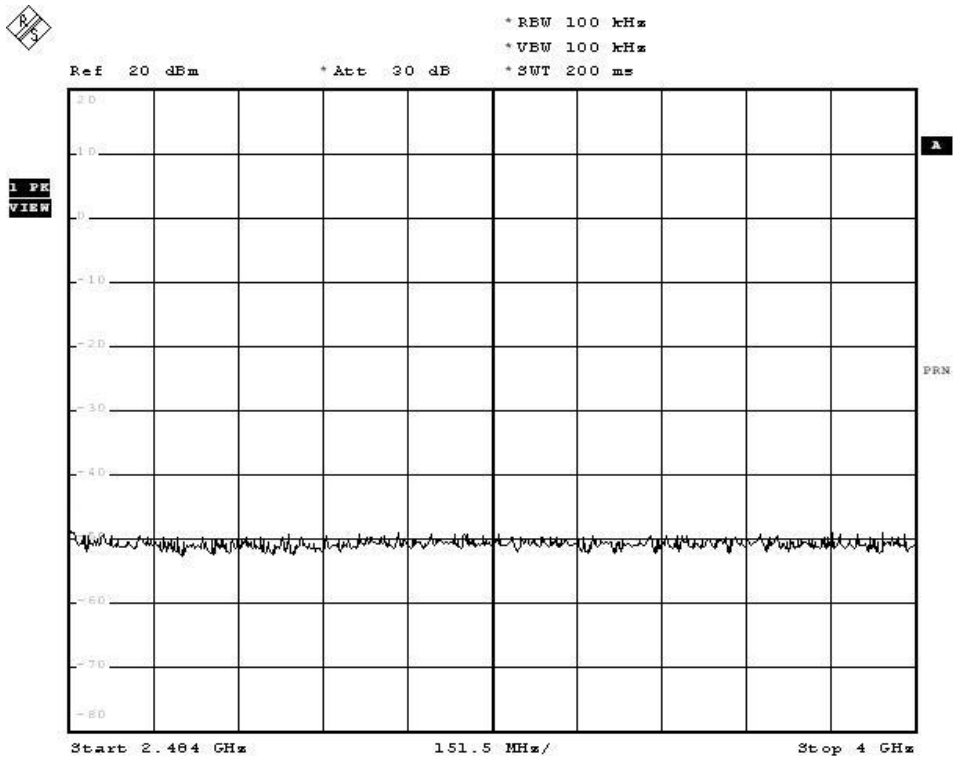
Channel 11 (2462MHz)



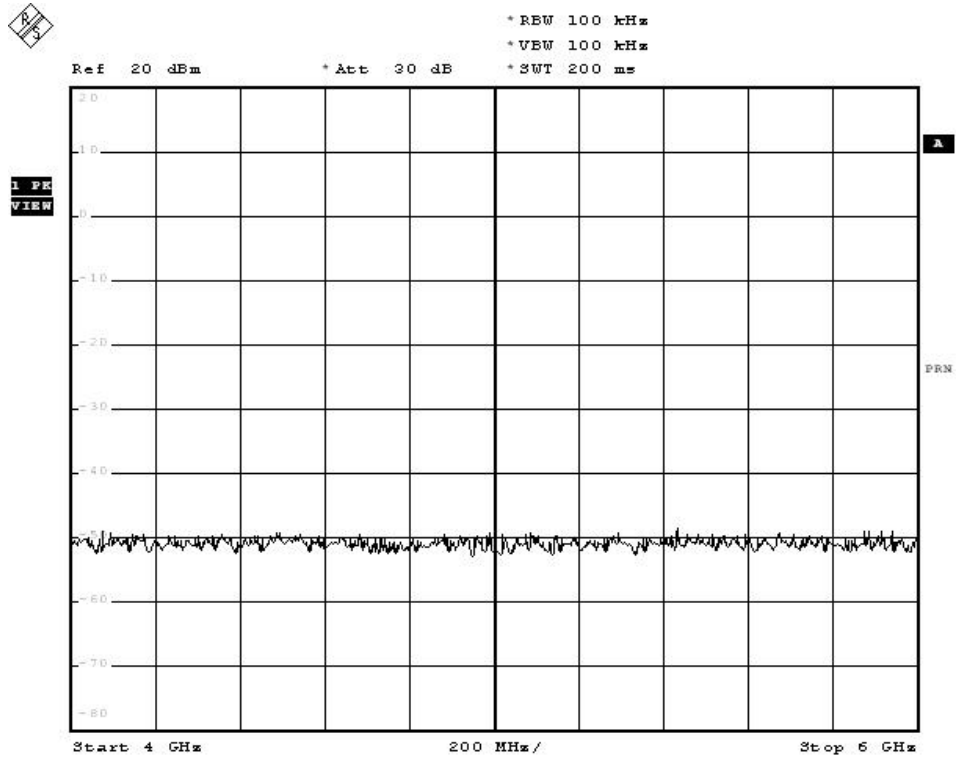
CH1-(2.35GHz)



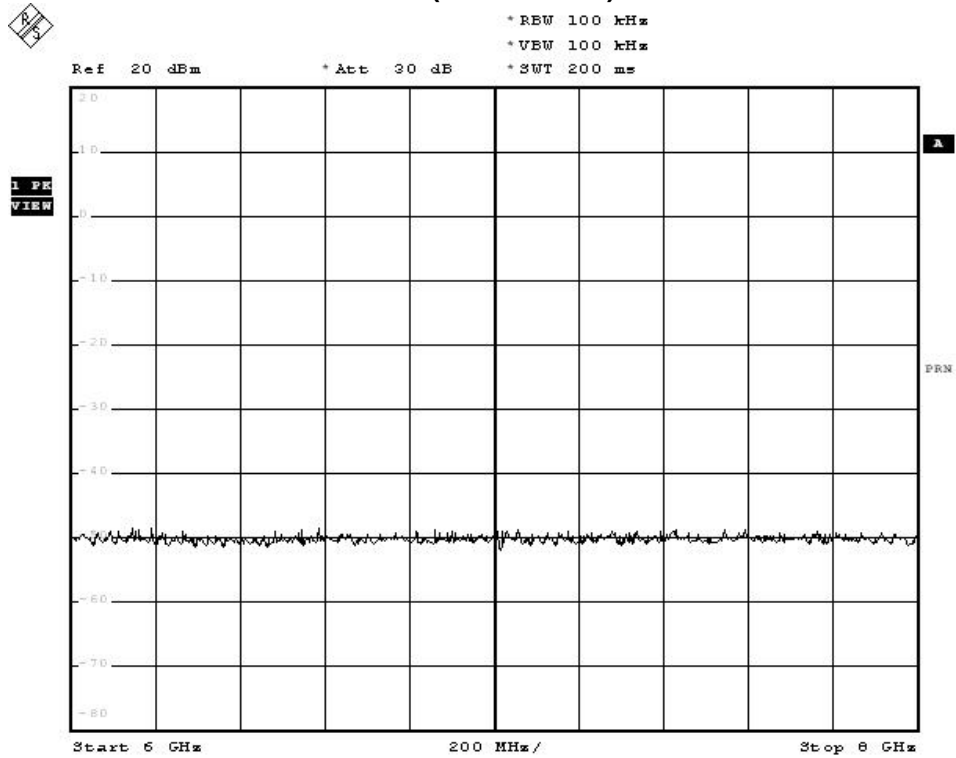
CH11-(2.484GHz~4GHz)



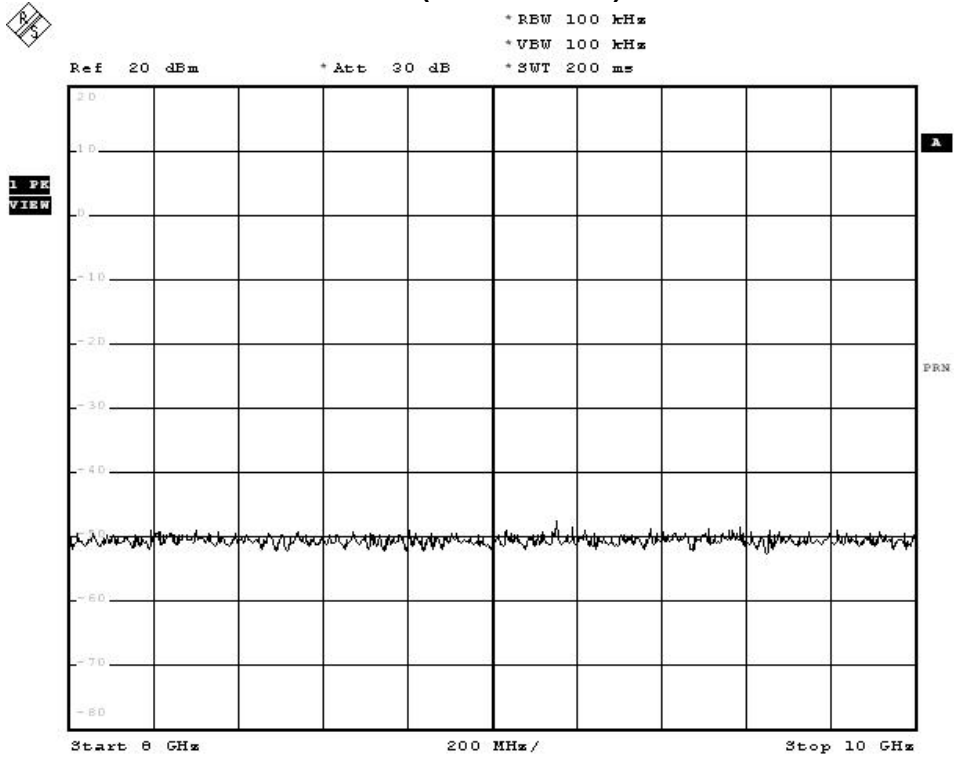
CH11-(4GHz~6GHz)



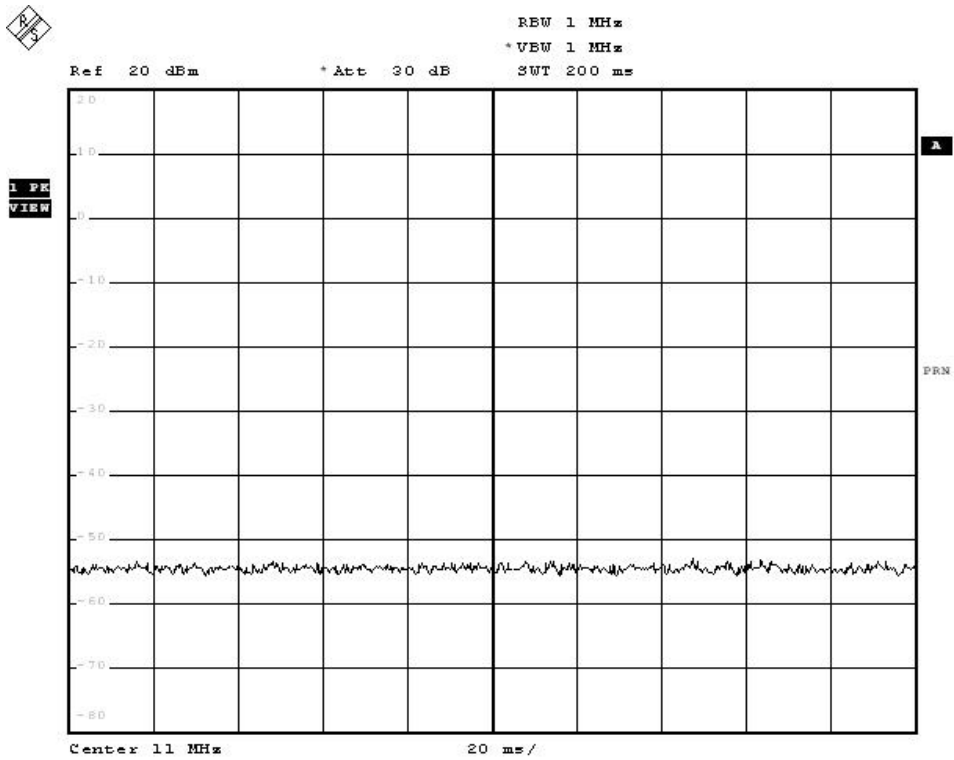
CH11-(6GHz~8GHz)



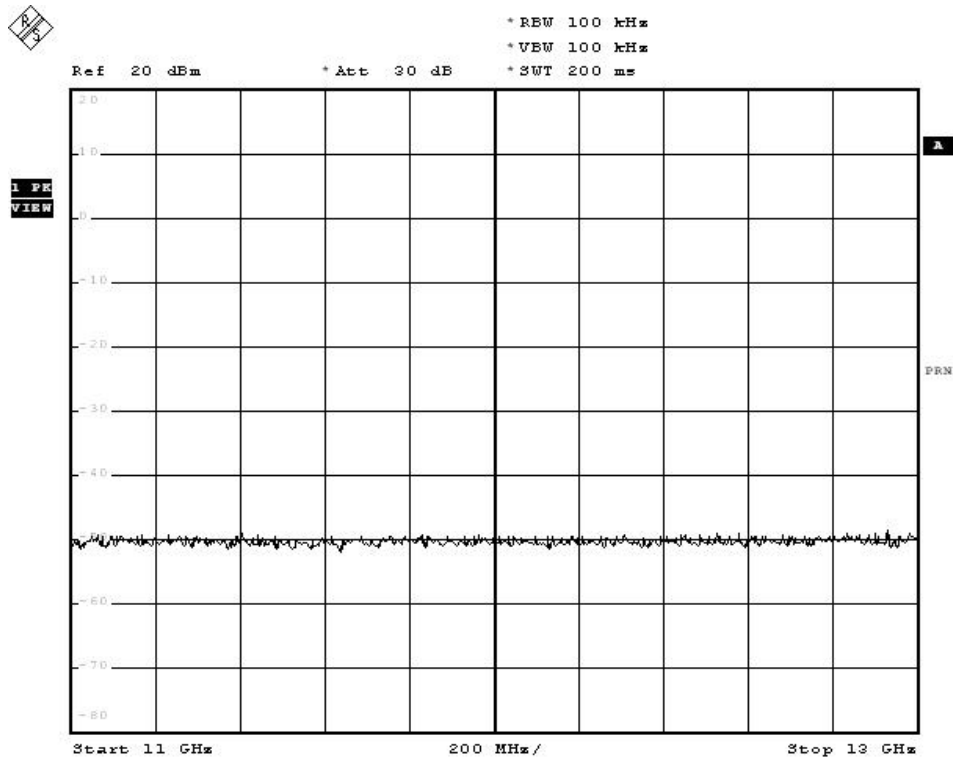
CH11-(8GHz~10GHz)



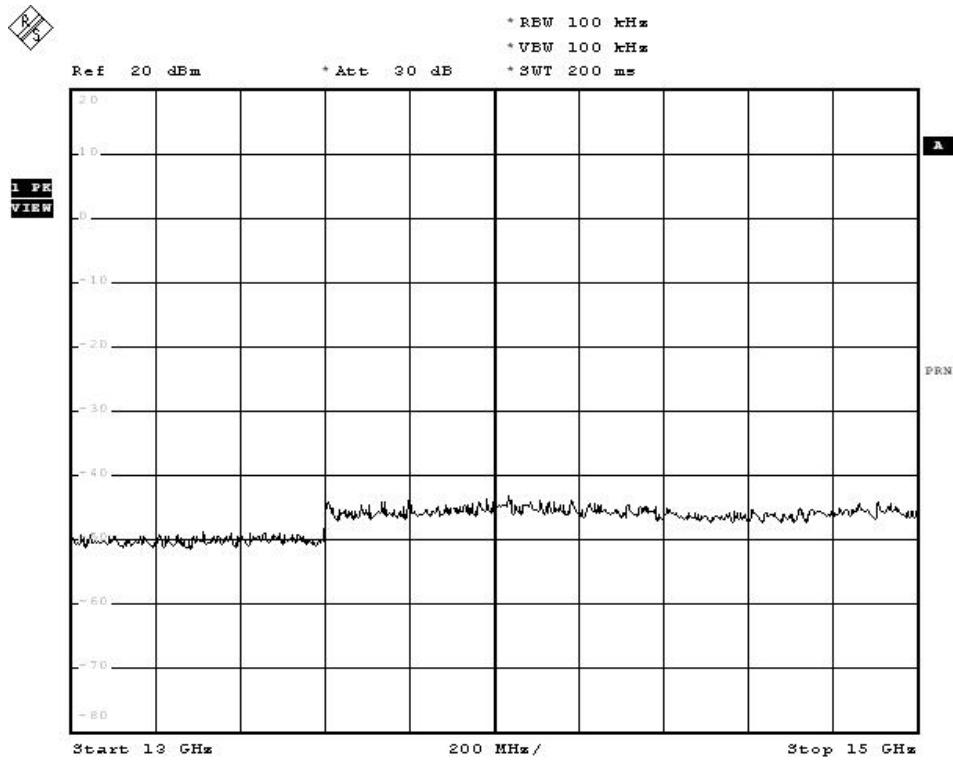
CH11-(10GHz~11GHz)



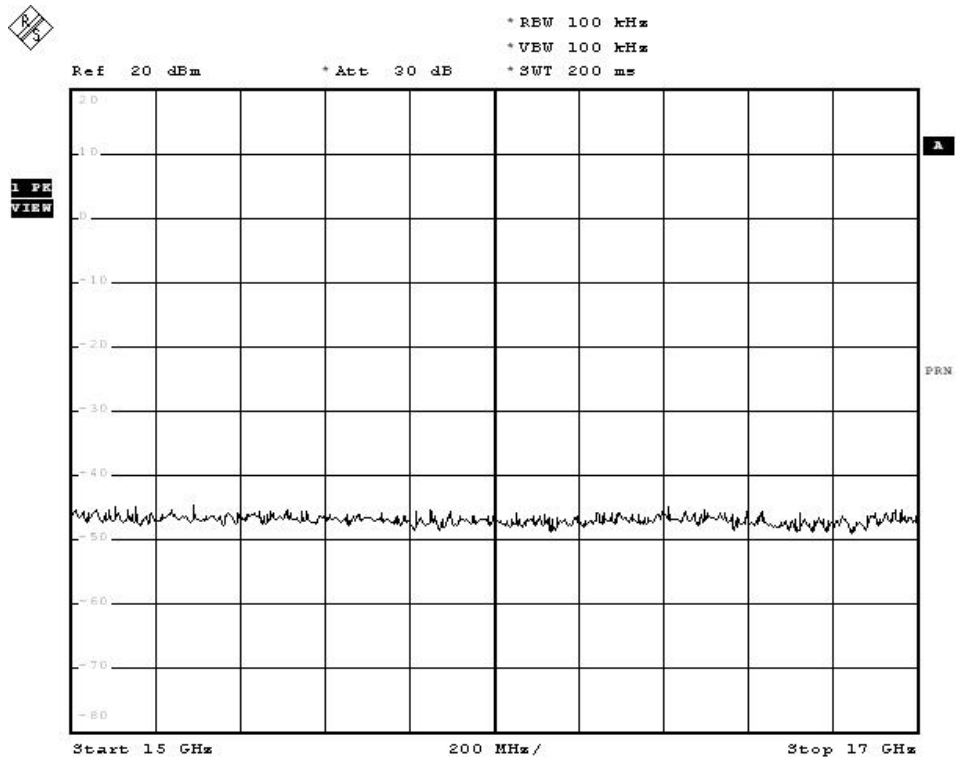
CH11-(11GHz~13GHz)



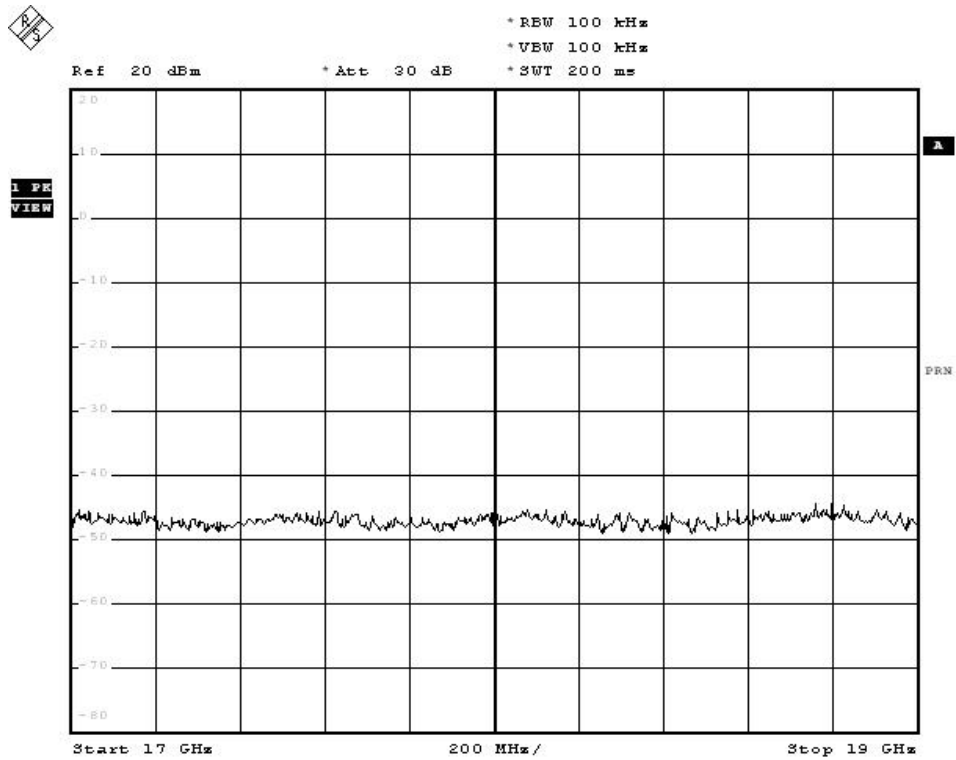
CH11-(13GHz~15GHz)



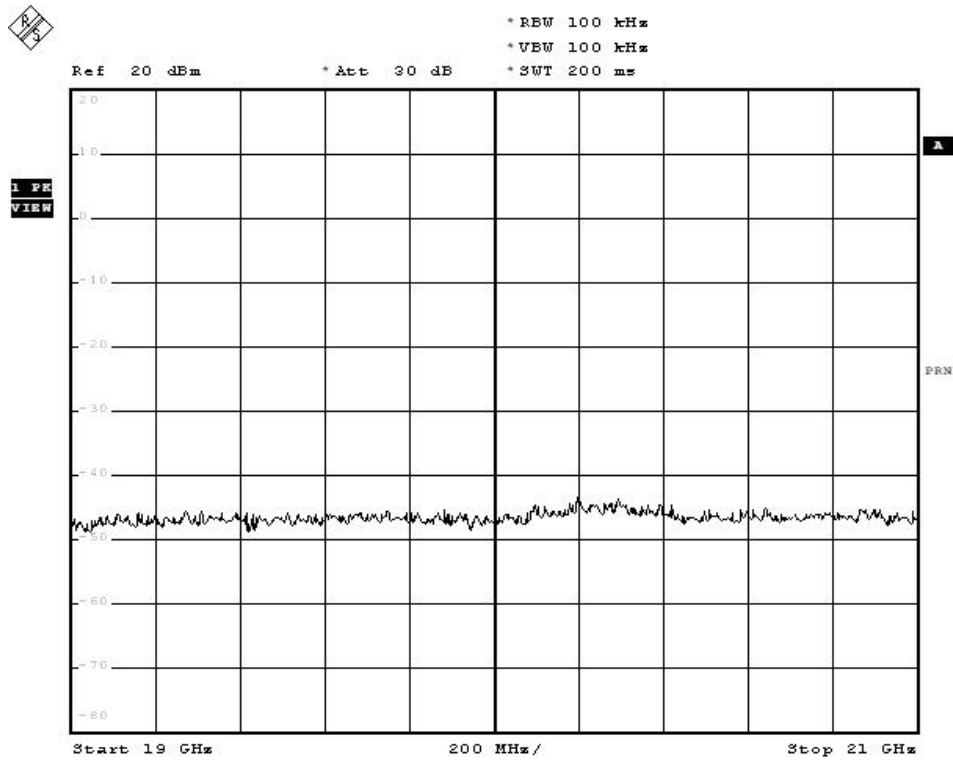
CH11-(15GHz~17GHz)



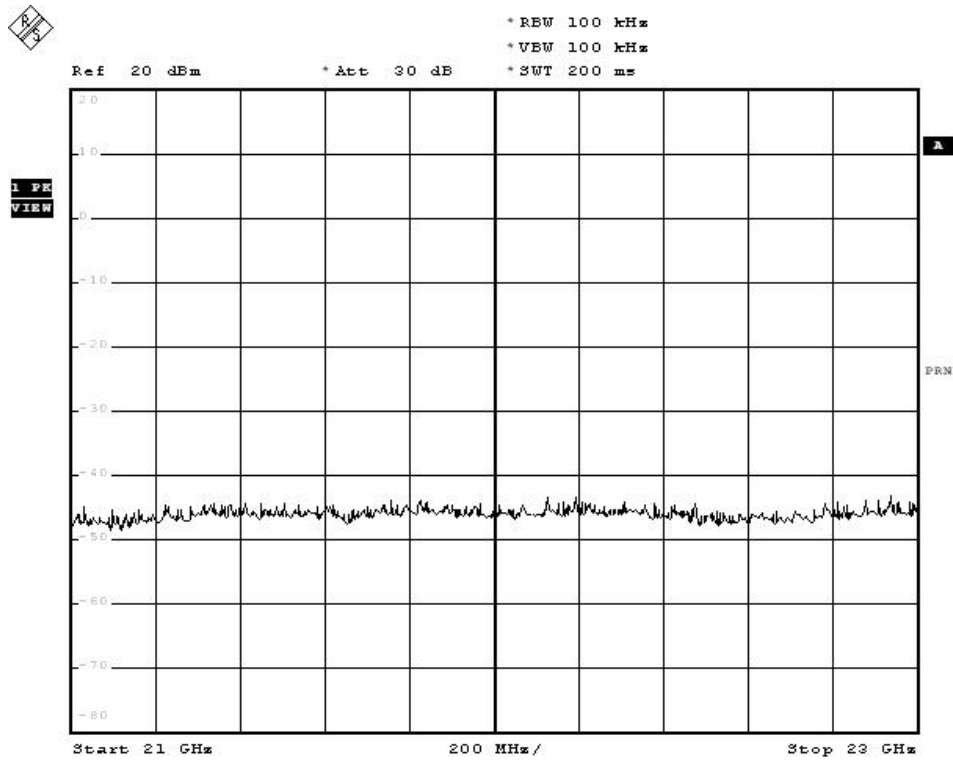
CH11-(17GHz~19GHz)



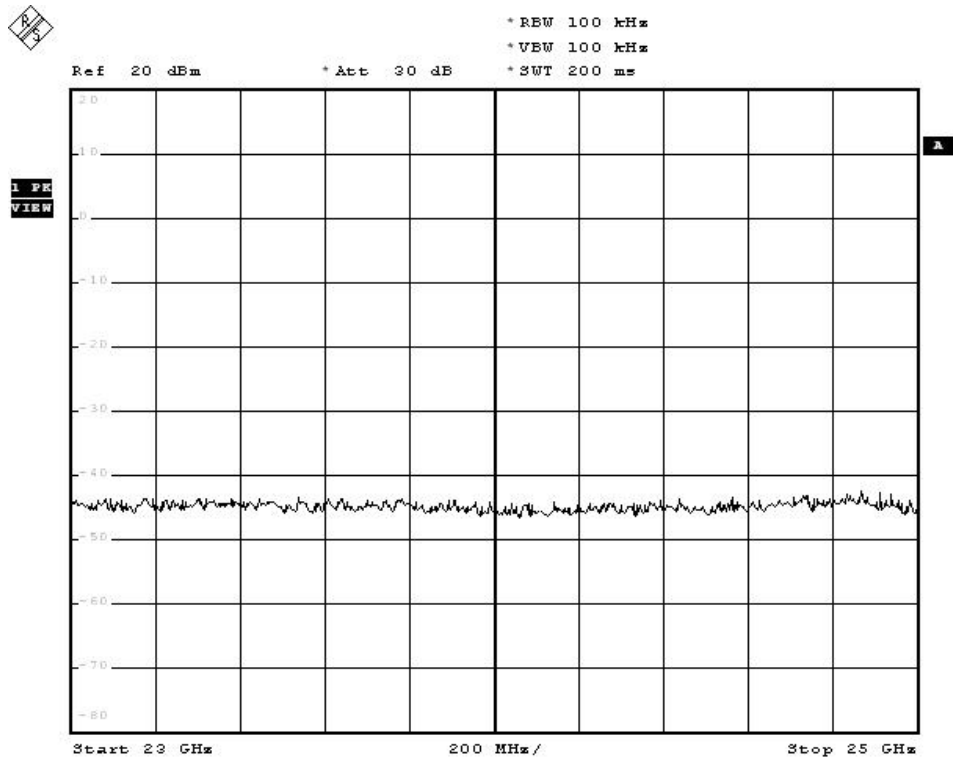
CH11-(19GHz~21GHz)



CH11-(21GHz~23GHz)



CH11-(23GHz~25GHz)



6. Band Edge

6.1. Test Equipment

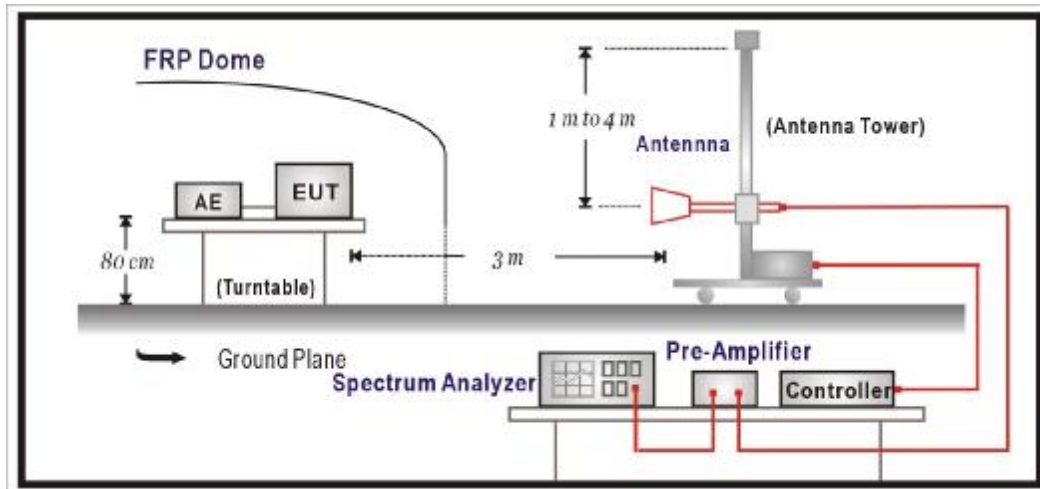
The following test equipments are used during the test:

RF Radiated Measurement:					
Item		Equipment	Manufacturer	Model No. / Serial No.	Last Cal.
1	X	Spectrum Analyzer	R & S	FSP40 / 100005	Aug., 2008
2	X	Pre-Amplifier	HP	8449B / 3008A01123	Feb., 2008
3		Loop Antenna	R & S	HFH2-Z2 / 833799/004	Sep., 2007
4		BiconiLog Antenna	Schwarzbeck	VULB 9166 / 1061	Sep., 2007
5		Bilog Antenna	Chase	CBL6112B / 2455	Sep., 2007
6	X	Horn Antenna	Schwarzbeck	BBHA 9120D / BBHA9120D312	Sep., 2007
7		No.1 OATS			Sep., 2007

- Note:
1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.
 2. Test instruments are marked with "X" are used to measure the final test results.

6.2. Test Setup

RF Radiated Measurement:



6.3. 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.

6.4. Test Procedure

The EUT was setup according to ANSI C63.4, 2003 and tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements. The EUT is placed on a turn table which is 0.8 meter above ground. The turn table is rotated 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 is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.4:2003 on radiated measurement.

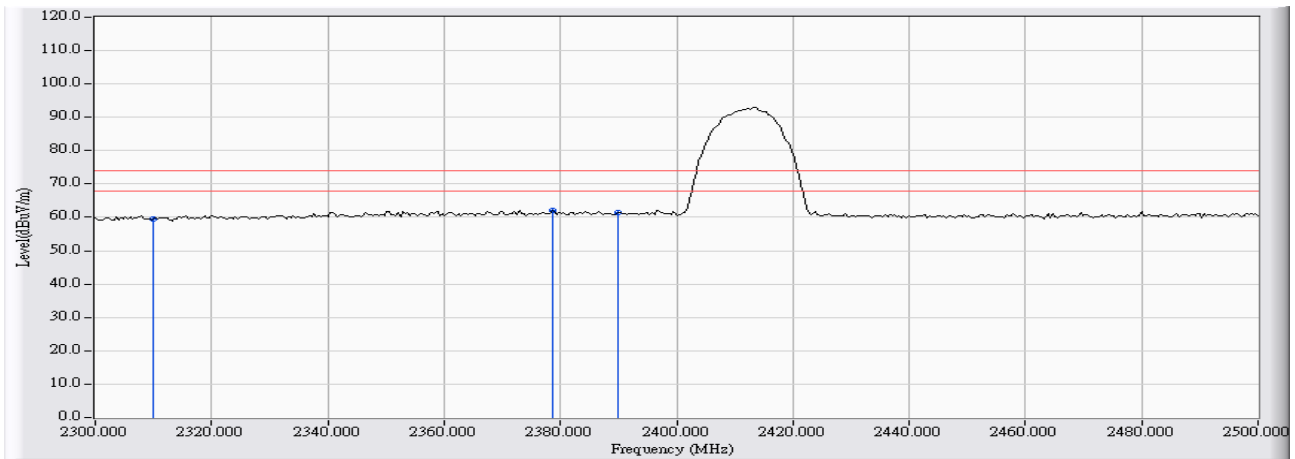
6.5. Uncertainty

The measurement uncertainty
 ± 3.9 dB above 1GHz

6.6. Test Result

Radiated is defined as

Site : Site 1	Time : 2008/08/01 - 19:16
Limit : FCC_15.209(961011)_03M_PK	Margin : 6
Probe : CB3_FCC_1-18G(2007) - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless Router	Note : TX-B-CH1

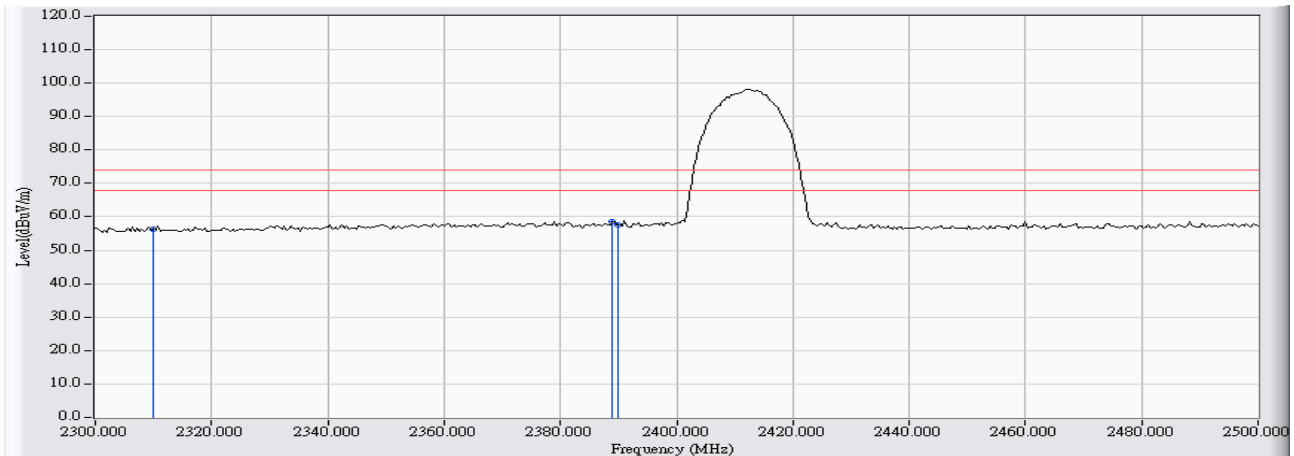


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	2310.000	30.412	29.151	59.562	-14.438	74.000	54.000	PEAK
2	* 2378.557	30.523	31.538	62.061	-11.939	74.000	54.000	PEAK
3	2390.000	30.543	30.805	61.348	-12.652	74.000	54.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : Site 1	Time : 2008/07/25 - 13:27
Limit : FCC_15.209(961011)_03M_PK	Margin : 6
Probe : CB3_FCC_1-18G(2007) - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless Router	Note : TX-B-CH1

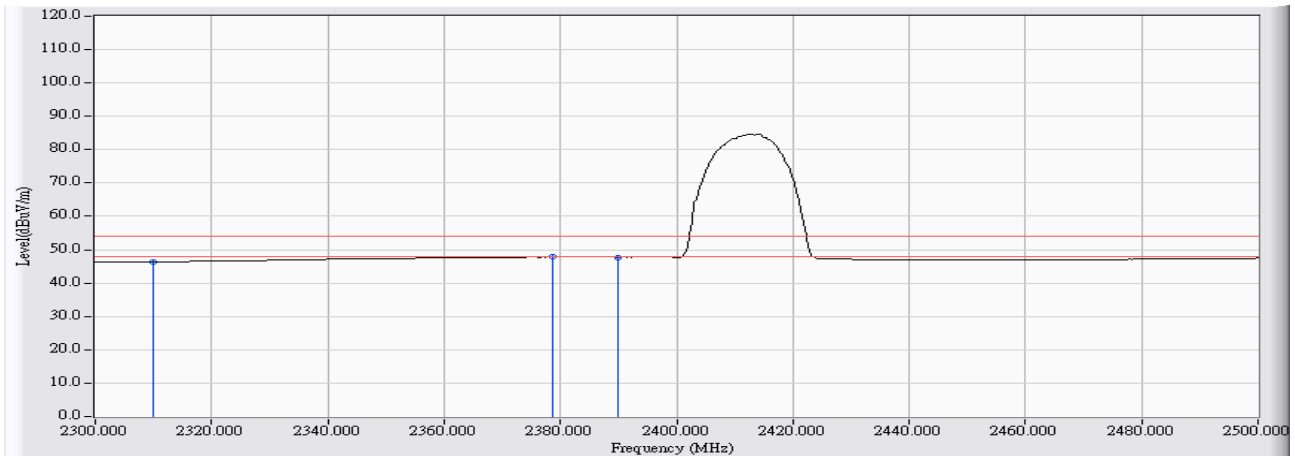


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	2310.000	28.433	27.883	56.316	-17.684	74.000	54.000	PEAK
2	* 2388.978	28.719	29.824	58.543	-15.457	74.000	54.000	PEAK
3	2390.000	28.724	28.925	57.649	-16.351	74.000	54.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : Site 1	Time : 2008/08/01 - 19:18
Limit : FCC_15.209(961011)_03M_AV	Margin : 6
Probe : CB3_FCC_1-18G(2007) - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless Router	Note : TX-B-CH1

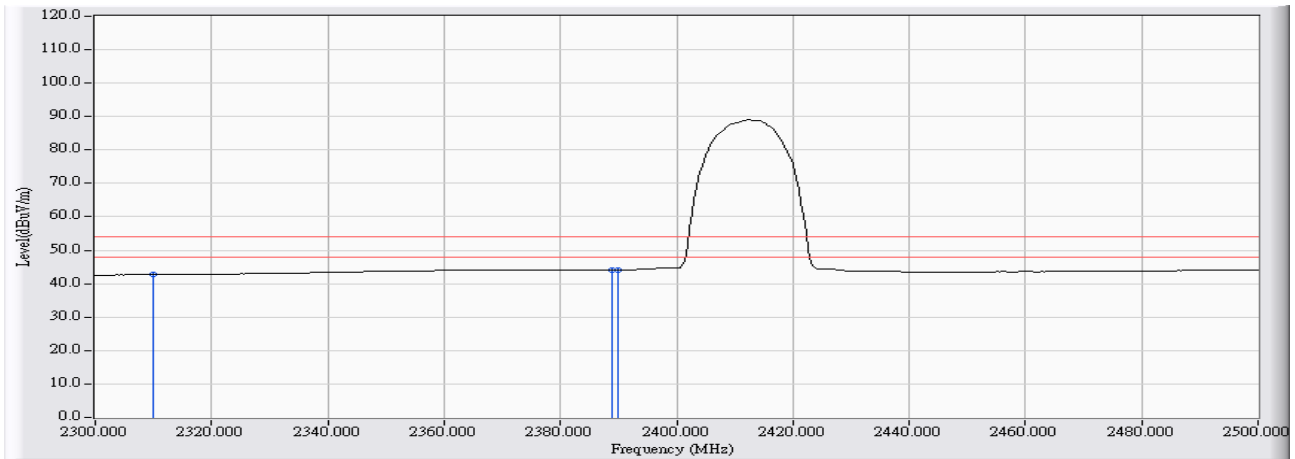


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	2310.000	30.412	16.017	46.428	-7.572	74.000	54.000	AVERAGE
2	* 2378.557	30.523	17.275	47.798	-6.202	74.000	54.000	AVERAGE
3	2390.000	30.543	17.228	47.771	-6.229	74.000	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : Site 1	Time : 2008/07/25 - 13:28
Limit : FCC_15.209(961011)_03M_AV	Margin : 6
Probe : CB3_FCC_1-18G(2007) - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless Router	Note : TX-B-CH1

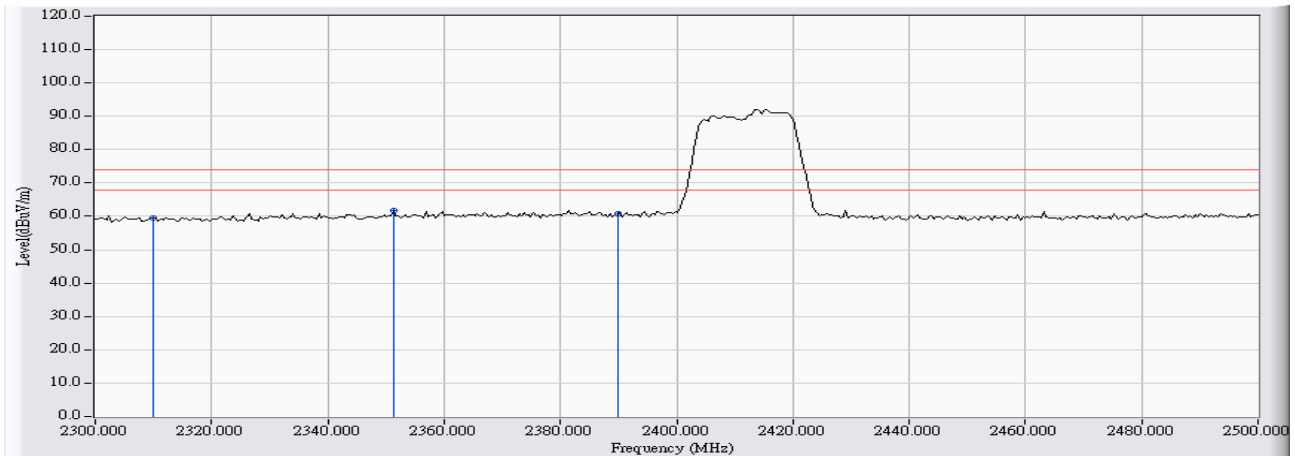


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	2310.000	28.433	14.300	42.733	-11.267	74.000	54.000	AVERAGE
2	* 2388.978	28.719	15.461	44.180	-9.820	74.000	54.000	AVERAGE
3	2390.000	28.724	15.475	44.199	-9.801	74.000	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : Site 1	Time : 2008/08/01 - 19:19
Limit : FCC_15.209(961011)_03M_PK	Margin : 6
Probe : CB3_FCC_1-18G(2007) - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless Router	Note : TX-G-CH1

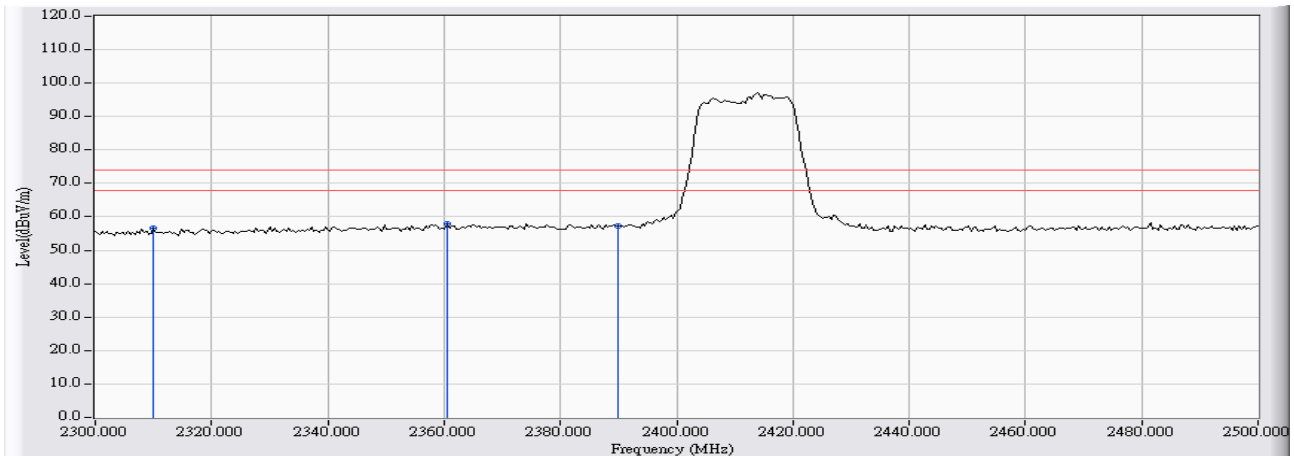


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	2310.000	30.412	29.190	59.601	-14.399	74.000	54.000	PEAK
2	* 2351.302	30.475	31.247	61.722	-12.278	74.000	54.000	PEAK
3	2390.000	30.543	30.202	60.745	-13.255	74.000	54.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : Site 1	Time : 2008/07/25 - 13:30
Limit : FCC_15.209(961011)_03M_PK	Margin : 6
Probe : CB3_FCC_1-18G(2007) - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless Router	Note : TX-G-CH1

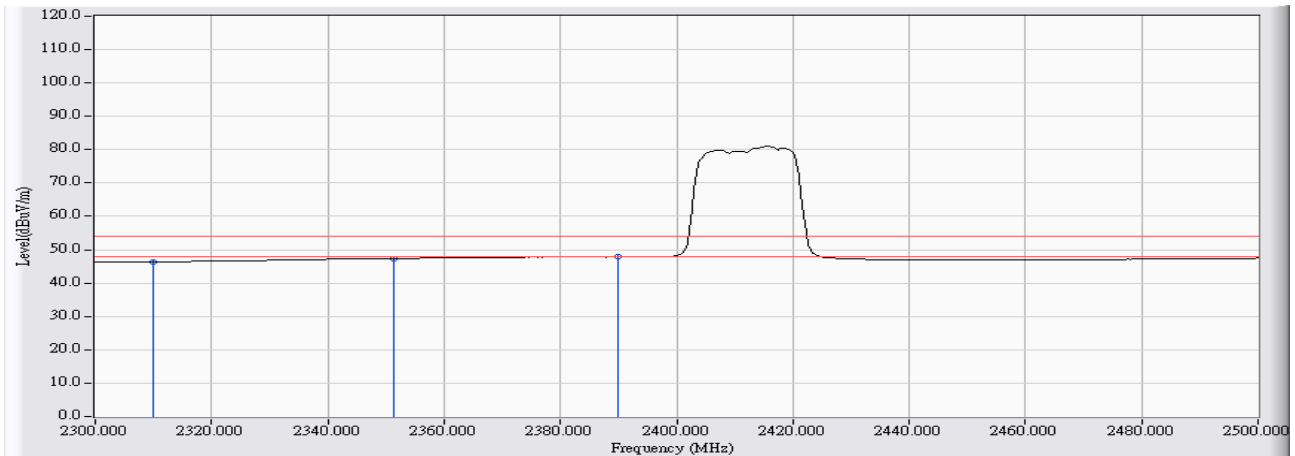


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	2310.000	28.433	28.200	56.633	-17.367	74.000	54.000	PEAK
2	* 2360.521	28.612	29.337	57.949	-16.051	74.000	54.000	PEAK
3	2390.000	28.724	28.475	57.199	-16.801	74.000	54.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : Site 1	Time : 2008/08/01 - 19:24
Limit : FCC_15.209(961011)_03M_AV	Margin : 6
Probe : CB3_FCC_1-18G(2007) - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless Router	Note : TX-G-CH1

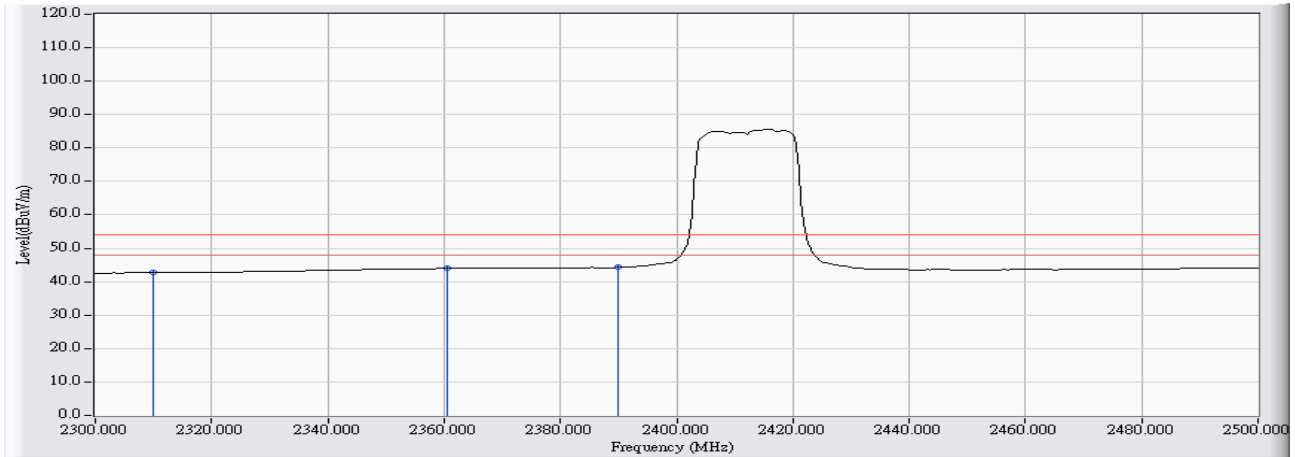


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	2310.000	30.412	16.001	46.412	-7.588	74.000	54.000	AVERAGE
2	* 2351.302	30.475	16.915	47.390	-6.610	74.000	54.000	AVERAGE
3	2390.000	30.543	17.253	47.796	-6.204	74.000	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : Site 1	Time : 2008/07/25 - 13:31
Limit : FCC_15.209(961011)_03M_AV	Margin : 6
Probe : CB3_FCC_1-18G(2007) - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless Router	Note : TX-G-CH1

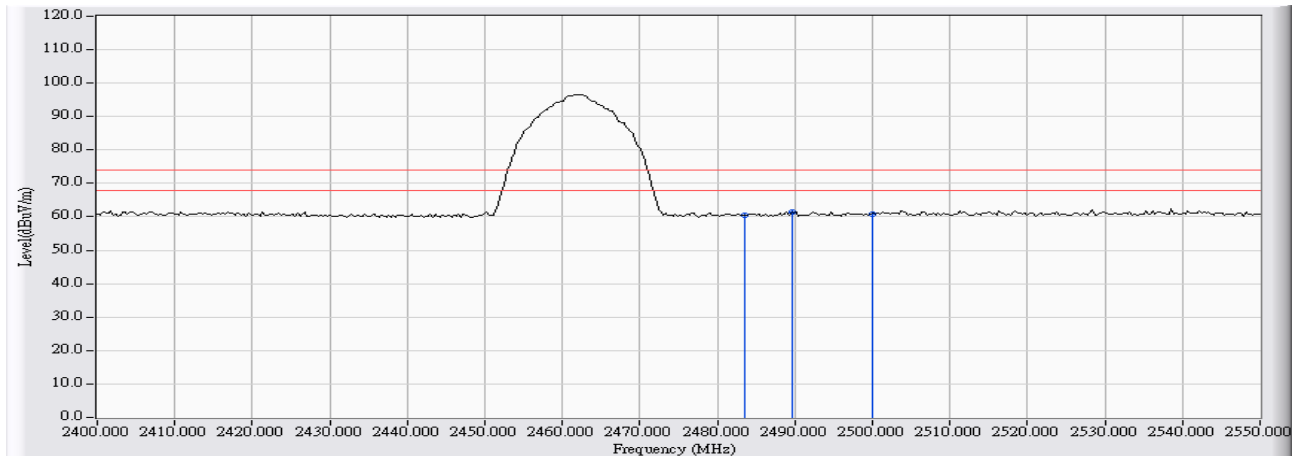


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	2310.000	28.433	14.301	42.734	-11.266	74.000	54.000	AVERAGE
2	* 2360.521	28.612	15.371	43.983	-10.017	74.000	54.000	AVERAGE
3	2390.000	28.724	15.539	44.263	-9.737	74.000	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : Site 1	Time : 2008/07/25 - 13:19
Limit : FCC_15.209(961011)_03M_PK	Margin : 6
Probe : CB3_FCC_1-18G(2007) - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless Router	Note : TX-B-CH11

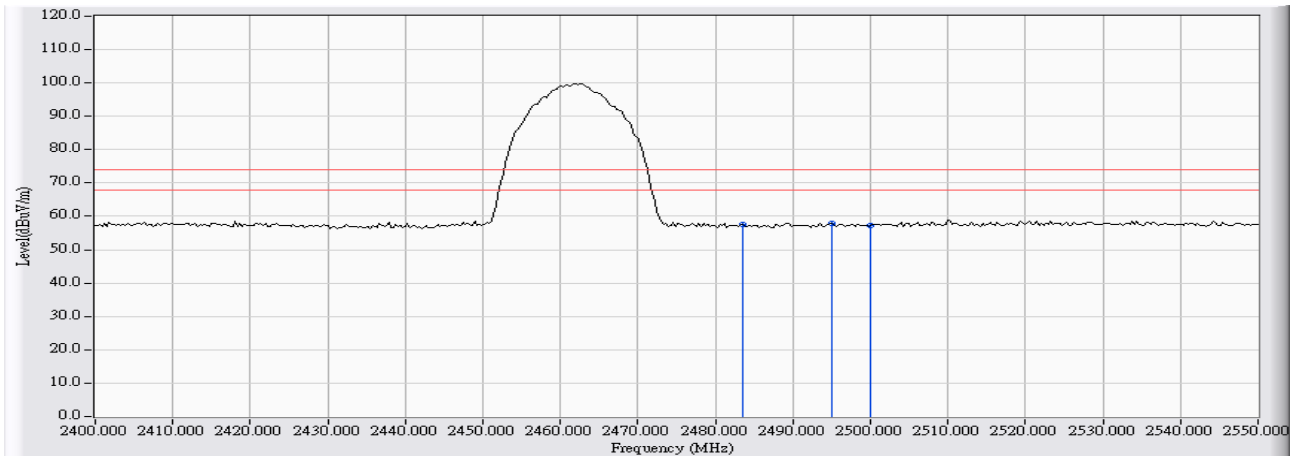


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	2483.500	30.696	29.756	60.451	-13.549	74.000	54.000	PEAK
2	* 2489.579	30.702	30.702	61.404	-12.596	74.000	54.000	PEAK
3	2500.000	30.722	30.187	60.909	-13.091	74.000	54.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : Site 1	Time : 2008/07/25 - 13:37
Limit : FCC_15.209(961011)_03M_PK	Margin : 6
Probe : CB3_FCC_1-18G(2007) - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless Router	Note : TX-B-CH11

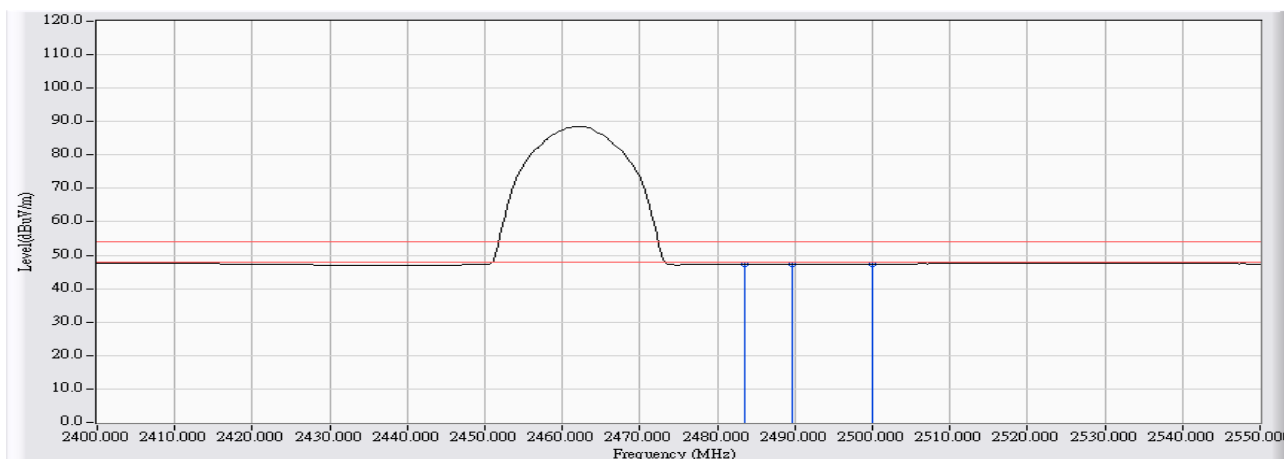


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	2483.500	29.064	28.563	57.626	-16.374	74.000	54.000	PEAK
2	* 2494.990	29.097	28.817	57.914	-16.086	74.000	54.000	PEAK
3	2500.000	29.114	28.240	57.354	-16.646	74.000	54.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : Site 1	Time : 2008/07/25 - 13:20
Limit : FCC_15.209(961011)_03M_AV	Margin : 6
Probe : CB3_FCC_1-18G(2007) - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless Router	Note : TX-B-CH11

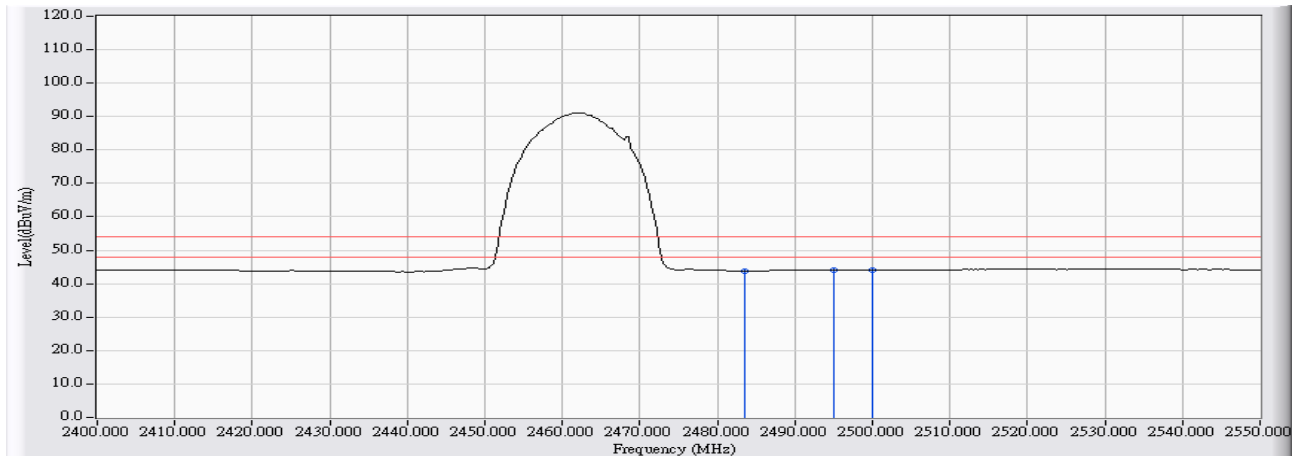


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	2483.500	30.696	16.488	47.183	-6.817	74.000	54.000	AVERAGE
2	* 2489.579	30.702	16.588	47.290	-6.710	74.000	54.000	AVERAGE
3	2500.000	30.722	16.684	47.406	-6.594	74.000	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : Site 1	Time : 2008/07/25 - 13:40
Limit : FCC_15.209(961011)_03M_AV	Margin : 6
Probe : CB3_FCC_1-18G(2007) - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless Router	Note : TX-B-CH11

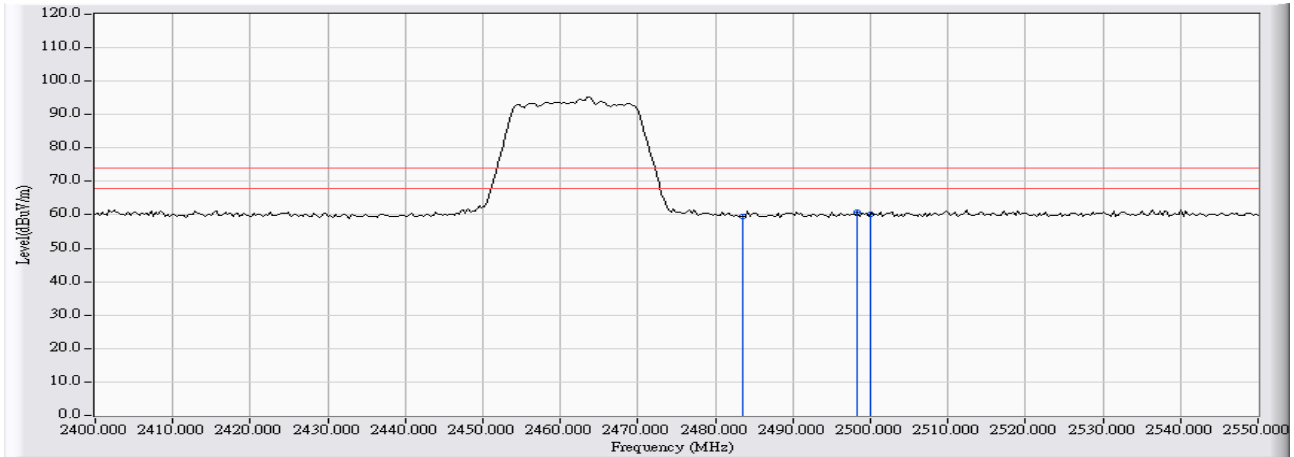


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	2483.500	29.064	14.810	43.873	-10.127	74.000	54.000	AVERAGE
2	* 2494.990	29.097	14.932	44.029	-9.971	74.000	54.000	AVERAGE
3	2500.000	29.114	15.002	44.116	-9.884	74.000	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : Site 1	Time : 2008/07/25 - 13:22
Limit : FCC_15.209(961011)_03M_PK	Margin : 6
Probe : CB3_FCC_1-18G(2007) - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless Router	Note : TX-G-CH11

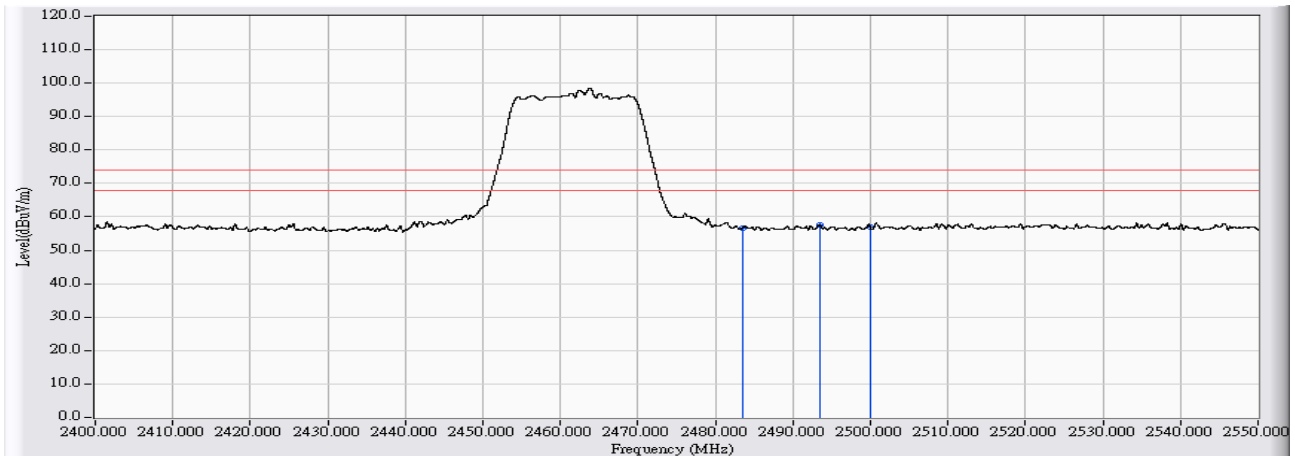


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	2483.500	30.696	28.956	59.651	-14.349	74.000	54.000	PEAK
2	* 2498.297	30.717	30.104	60.821	-13.179	74.000	54.000	PEAK
3	2500.000	30.722	29.588	60.310	-13.690	74.000	54.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : Site 1	Time : 2008/07/25 - 13:40
Limit : FCC_15.209(961011)_03M_PK	Margin : 6
Probe : CB3_FCC_1-18G(2007) - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless Router	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	2483.500	29.064	27.712	56.775	-17.225	74.000	54.000	PEAK
2	* 2493.480	29.093	28.534	57.627	-16.373	74.000	54.000	PEAK
3	2500.000	29.114	27.670	56.784	-17.216	74.000	54.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : Site 1	Time : 2008/07/25 - 13:23
Limit : FCC_15.209(961011)_03M_AV	Margin : 6
Probe : CB3_FCC_1-18G(2007) - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless Router	Note : TX-G-CH11

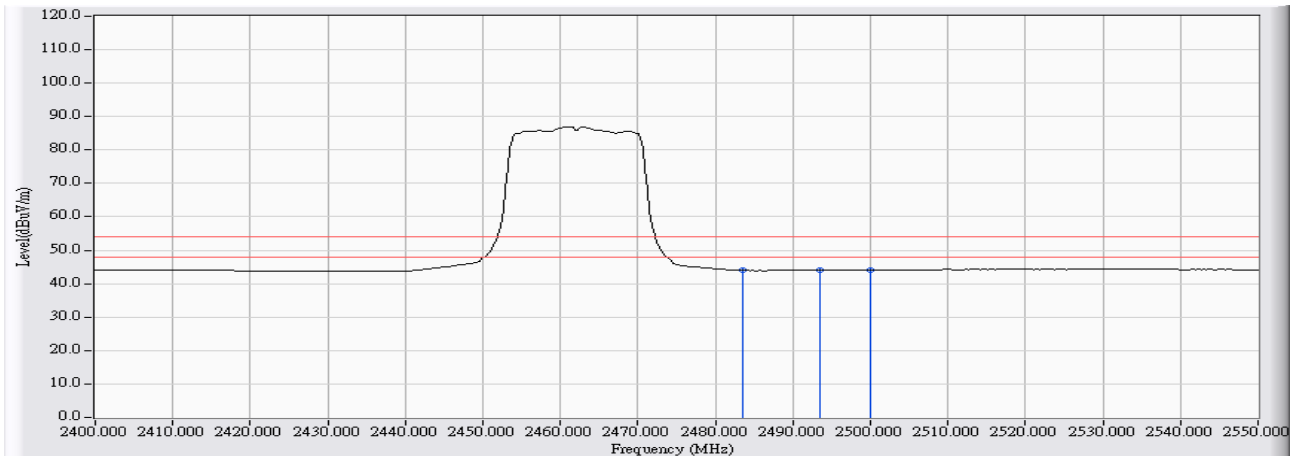


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	2483.500	30.696	16.506	47.201	-6.799	74.000	54.000	AVERAGE
2	* 2498.297	30.717	16.665	47.382	-6.618	74.000	54.000	AVERAGE
3	2500.000	30.722	16.692	47.414	-6.586	74.000	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : Site 1	Time : 2008/07/25 - 13:42
Limit : FCC_15.209(961011)_03M_AV	Margin : 6
Probe : CB3_FCC_1-18G(2007) - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless Router	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	2483.500	29.064	14.888	43.951	-10.049	74.000	54.000	AVERAGE
2	* 2493.480	29.093	14.910	44.003	-9.997	74.000	54.000	AVERAGE
3	2500.000	29.114	15.004	44.118	-9.882	74.000	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

7. Occupied Bandwidth

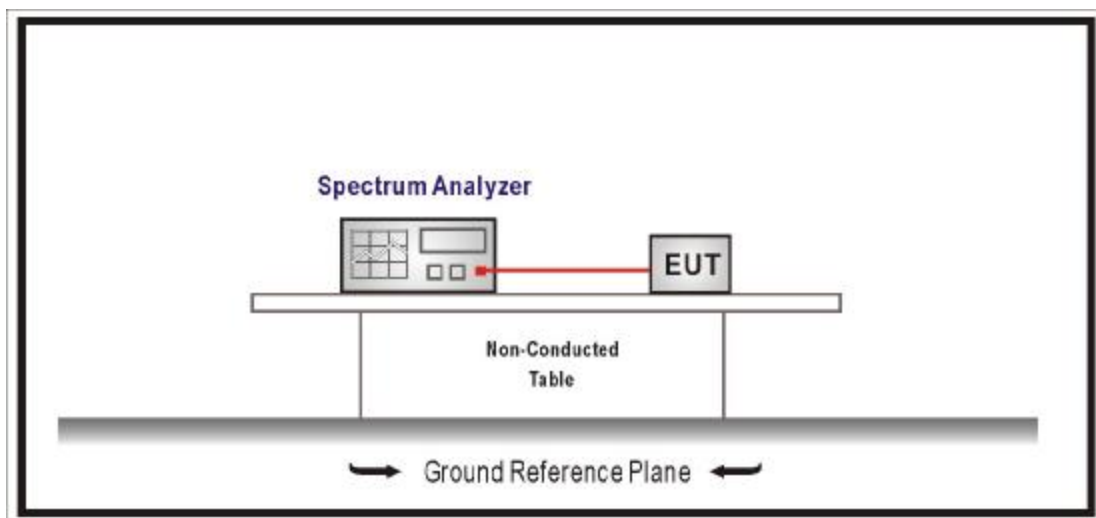
7.1. Test Equipment

The following test equipments are used during the test:

Item	Equipment	Manufacturer	Model No. / Serial No.	Last Cal.
1	Spectrum Analyzer	R & S	FSP / 100561	Jan., 2008
2	No.1 OATS			Sep., 2007

Note: 1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

7.2. Test Setup



7.3. Test Procedures

The EUT was setup according to ANSI C63.4, 2003; tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

Set RBW = 100 kHz, Span greater than RBW.

7.4. Limits

The 6 dB bandwidth must be greater than 500 kHz.

7.5. Uncertainty

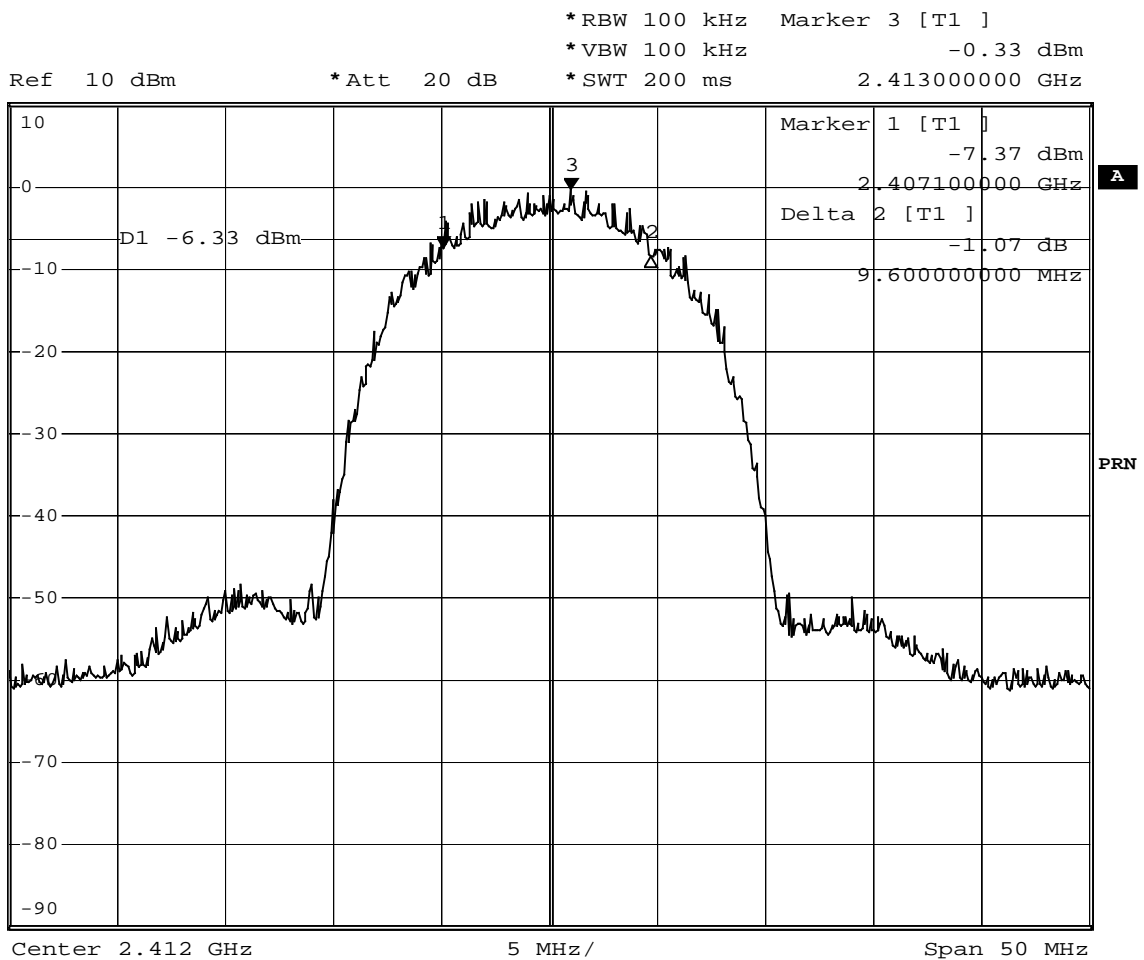
The measurement uncertainty is defined as $\pm 150\text{Hz}$

7.6. Test Result

Product	Wireless Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2008/07/14	Test Site	No.1 OATS

802.11 b				
Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
1	2412.00	9600	≥ 500	Pass
6	2437.00	9600	≥ 500	Pass
11	2462.00	10500	≥ 500	Pass

Channel 1



Date: 11.JUL.2008 22:20:43

Channel 6

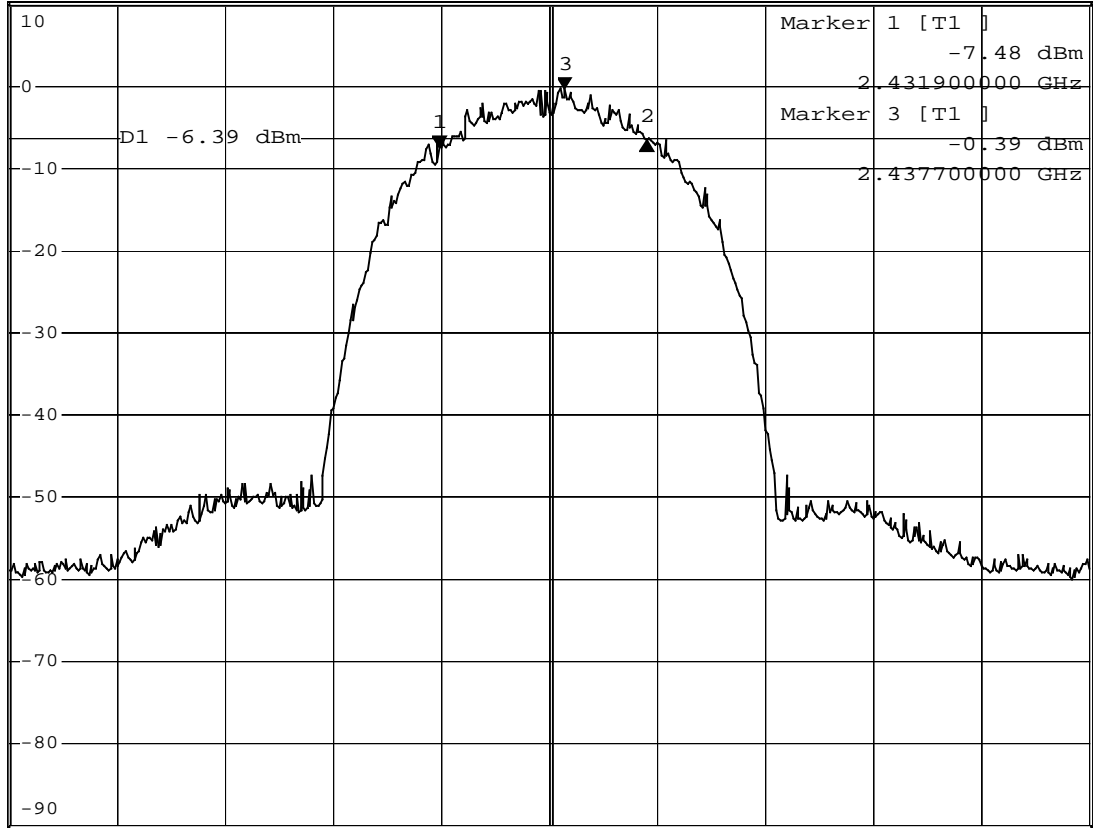


*RBW 100 kHz Delta 2 [T1]
 *VBW 100 kHz 0.76 dB
 *SWT 200 ms 9.60000000 MHz

Ref 10 dBm

*Att 20 dB

1 PK
VIEW



Center 2.437 GHz

5 MHz/

Span 50 MHz

Date: 11.JUL.2008 22:23:57

Channel 11

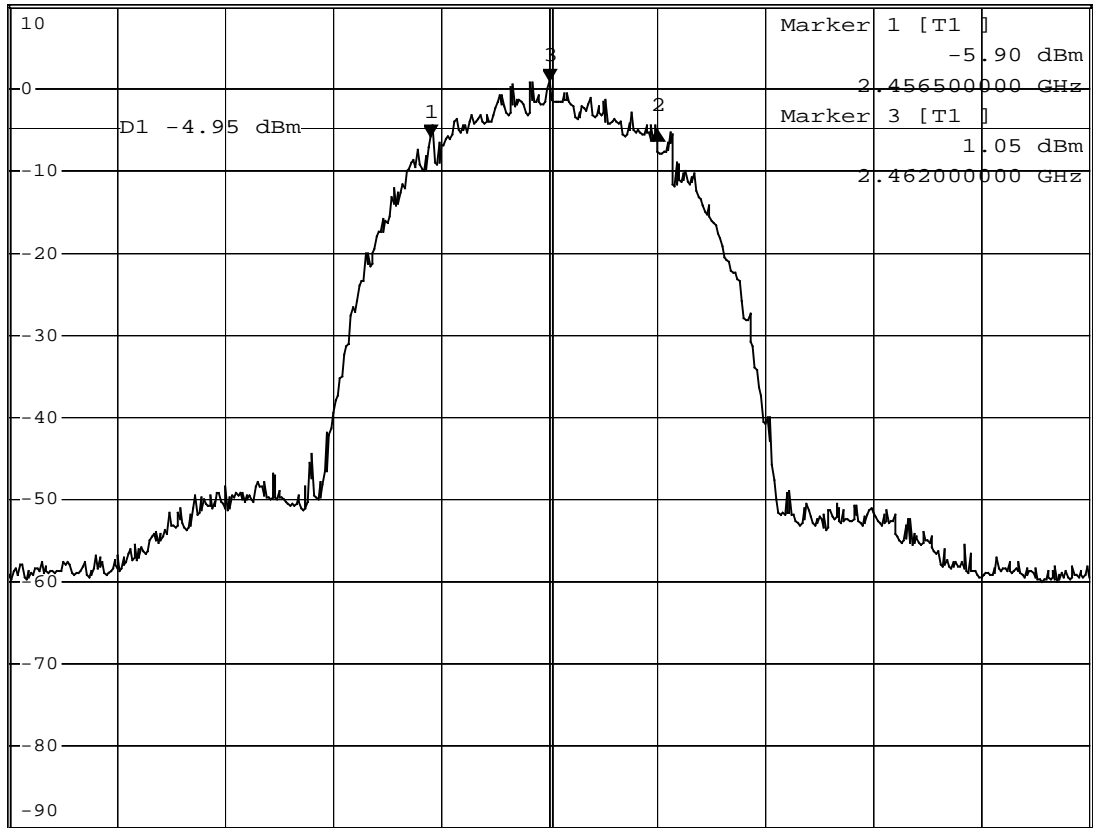


*RBW 100 kHz Delta 2 [T1]
 *VBW 100 kHz 0.73 dB
 *SWT 200 ms 10.50000000 MHz

Ref 10 dBm

*Att 20 dB

1 PK VIEW



Center 2.462 GHz

5 MHz/

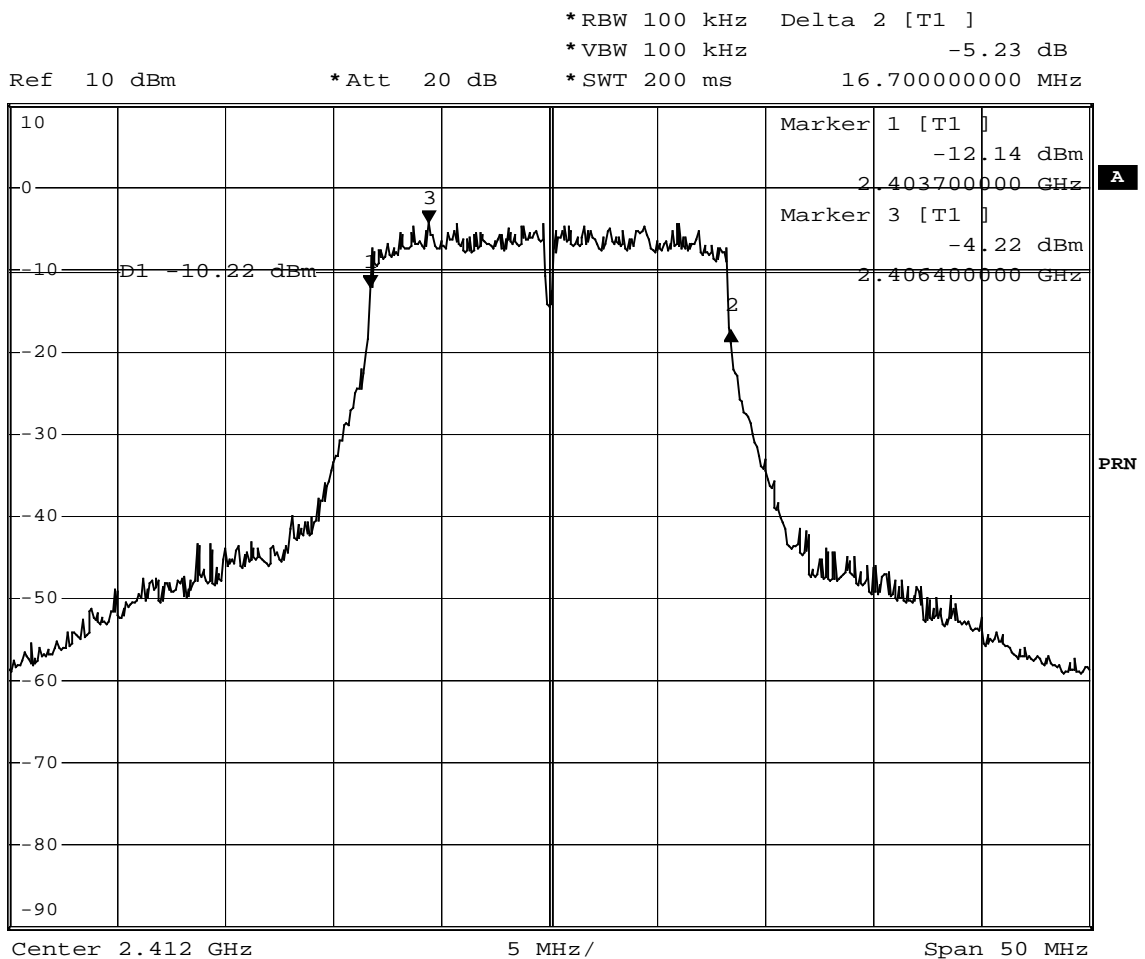
Span 50 MHz

Date: 11.JUL.2008 23:05:40

Product	Wireless Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2008/07/14	Test Site	No.1 OATS

IEEE 802.11g				
Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
1	2412.00	16700	≥ 500	Pass
6	2437.00	16700	≥ 500	Pass
11	2462.00	16700	≥ 500	Pass

Channel 1



Date: 11.JUL.2008 22:47:52

Channel 6

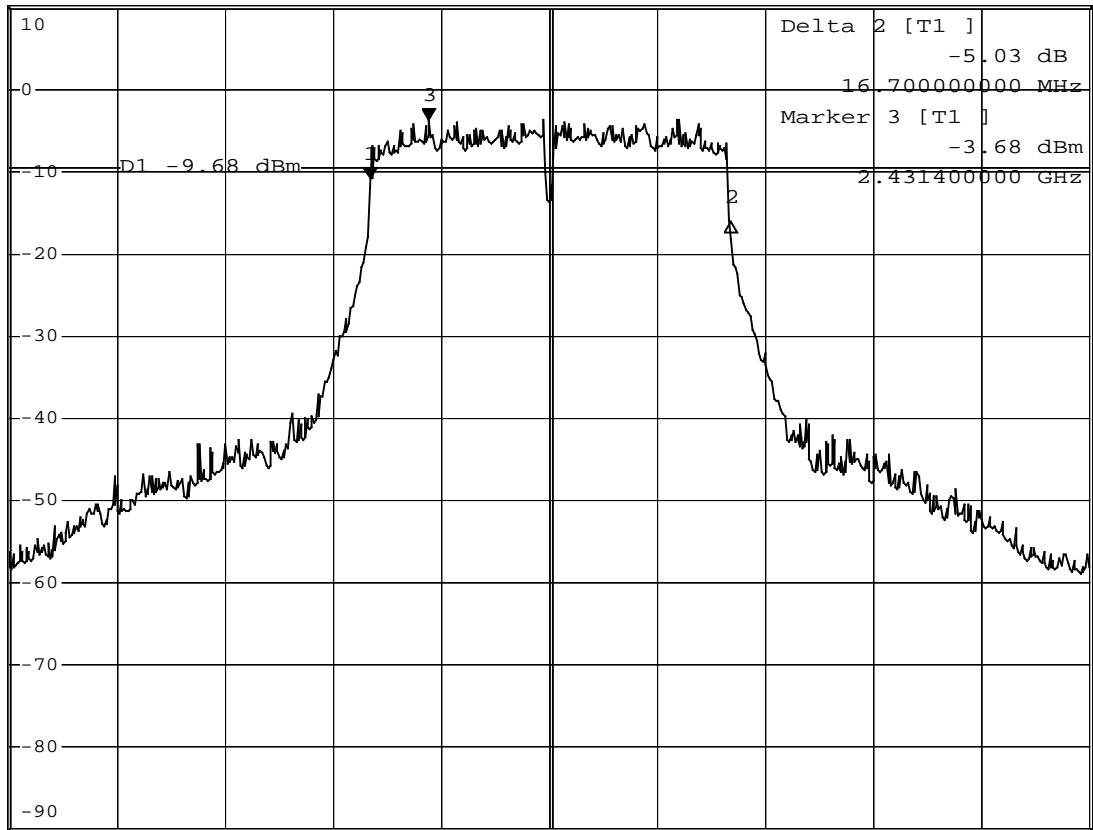


*RBW 100 kHz Marker 1 [T1]
*VBW 100 kHz -11.00 dBm
*SWT 200 ms 2.428700000 GHz

Ref 10 dBm

*Att 20 dB

1 PK VIEW



Center 2.437 GHz

5 MHz/

Span 50 MHz

Date: 11.JUL.2008 22:59:48

8. Power Density

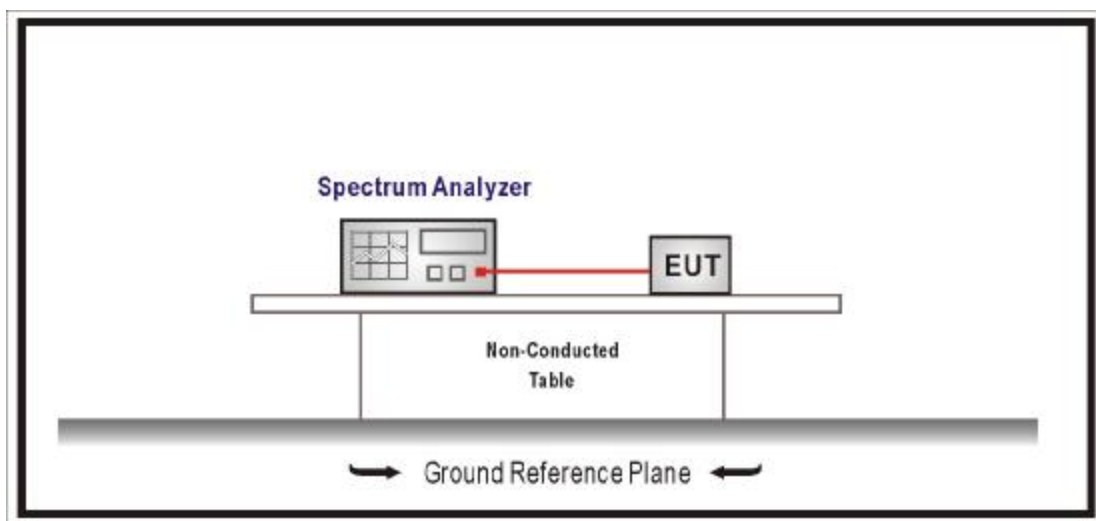
8.1. Test Equipment

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	Jan., 2008
2	No.1 OATS			Sep., 2007

Note: 1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

8.2. Test Setup



8.3. 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.

8.4. Test Procedures

The EUT was setup according to ANSI C63.4, 2003; tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements. Set RBW= 3 kHz, Set VBW \geq 9 kHz, Sweep time=Auto, Set detector=Peak detector

8.5. Uncertainty

The measurement uncertainty is defined as ± 1.27 dB.

8.6. Test Result

Product	Wireless Router		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2008/07/14	Test Site	No.1 OATS

IEEE 802.11b				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	-11.62	<8	Pass
6	2437	-12.26	<8	Pass
11	2462	-11.82	<8	Pass

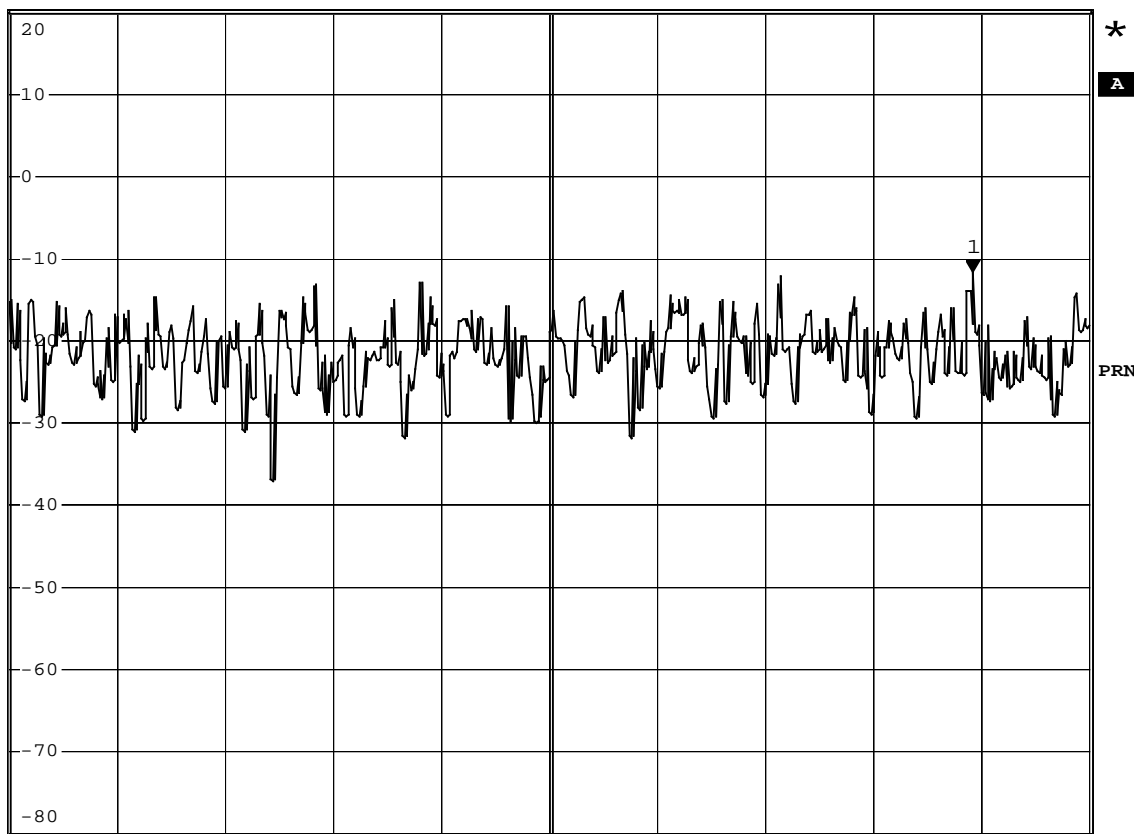
Channel 1



*RBW 3 kHz Marker 1 [T1]
 *VBW 10 kHz -11.62 dBm
 *SWT 500 s 2.412588000 GHz

Ref 20 dBm

*Att 30 dB



Center 2.412 GHz

150 kHz/

Span 1.5 MHz

Date: 29.AUG.2008 13:15:05

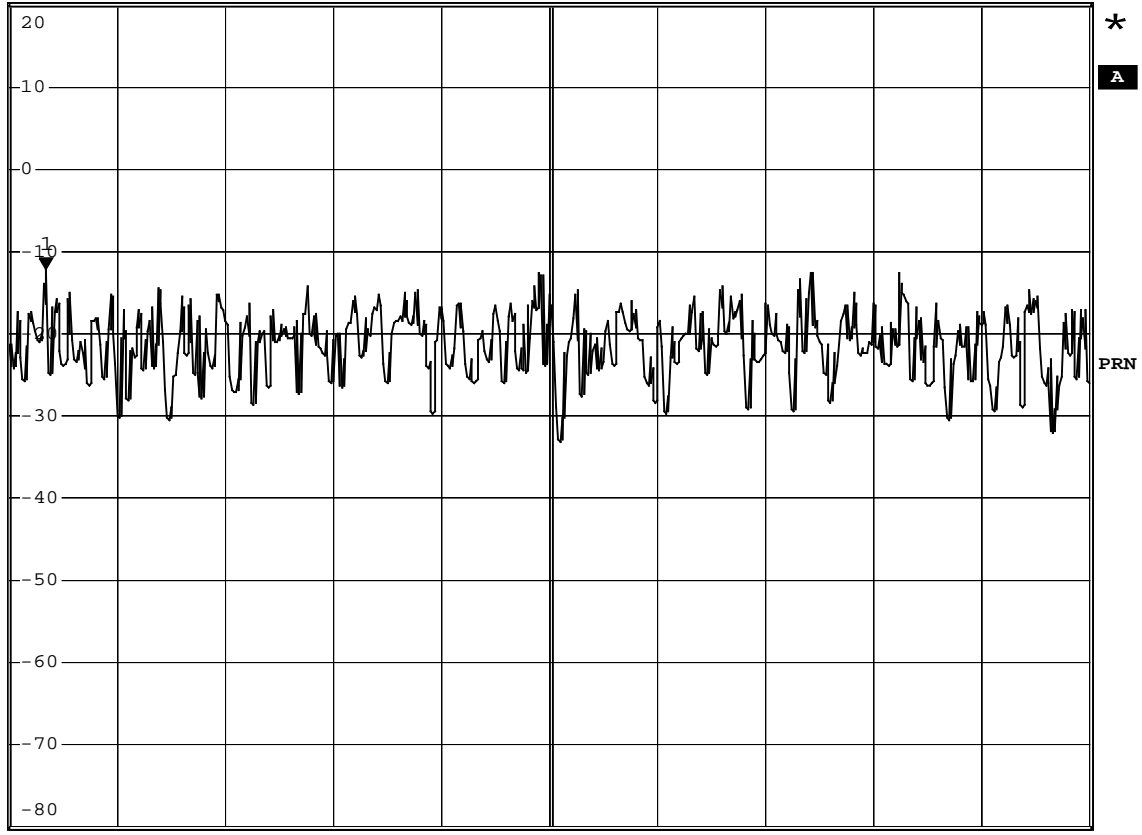
Channel 6



*RBW 3 kHz Marker 1 [T1]
*VBW 10 kHz -12.26 dBm
*SWT 500 s 2.436301000 GHz

Ref 20 dBm

*Att 30 dB



Center 2.437 GHz

150 kHz/

Span 1.5 MHz

Date: 29.AUG.2008 13:17:10

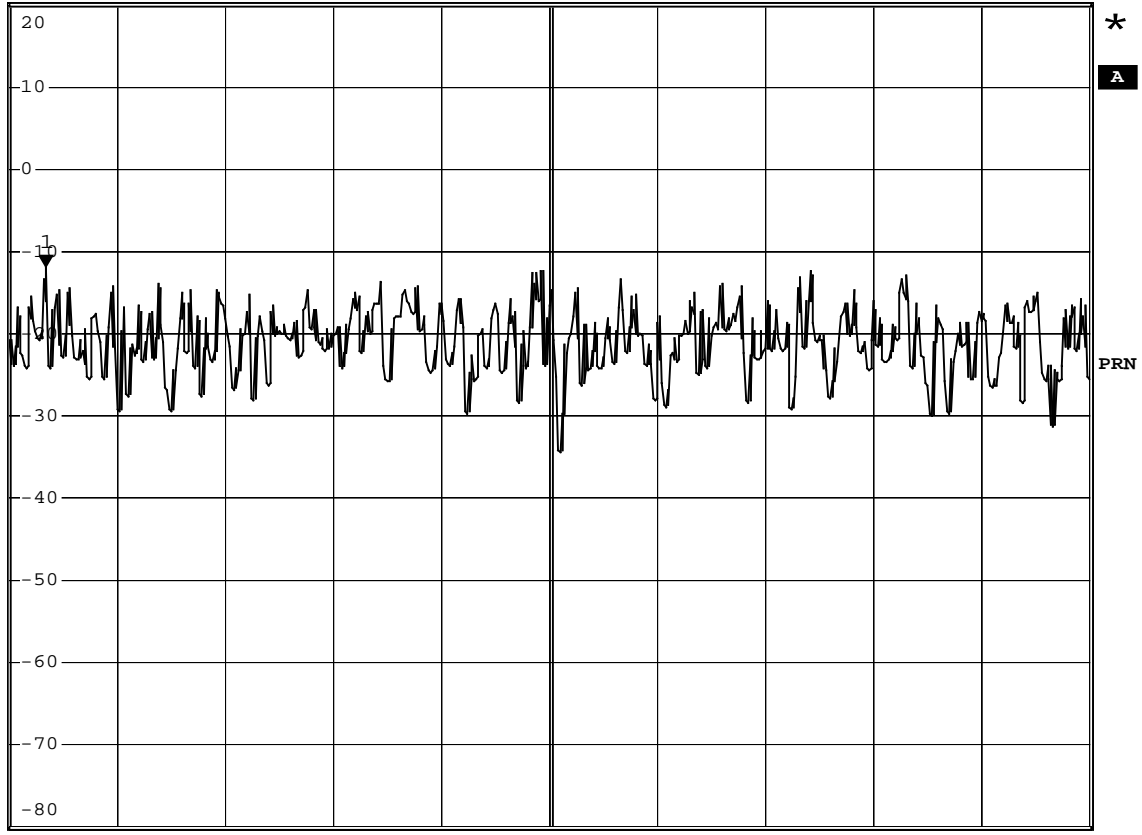
Channel 11



*RBW 3 kHz Marker 1 [T1]
*VBW 10 kHz -11.82 dBm
*SWT 500 s 2.461301000 GHz

Ref 20 dBm

*Att 30 dB



Center 2.462 GHz 150 kHz/ Span 1.5 MHz

Date: 29.AUG.2008 13:13:18

Product	Wireless Router		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2008/07/14	Test Site	No.1 OATS

IEEE 802.11g				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	-16.31	<8	Pass
6	2437	-15.96	<8	Pass
11	2462	-15.59	<8	Pass

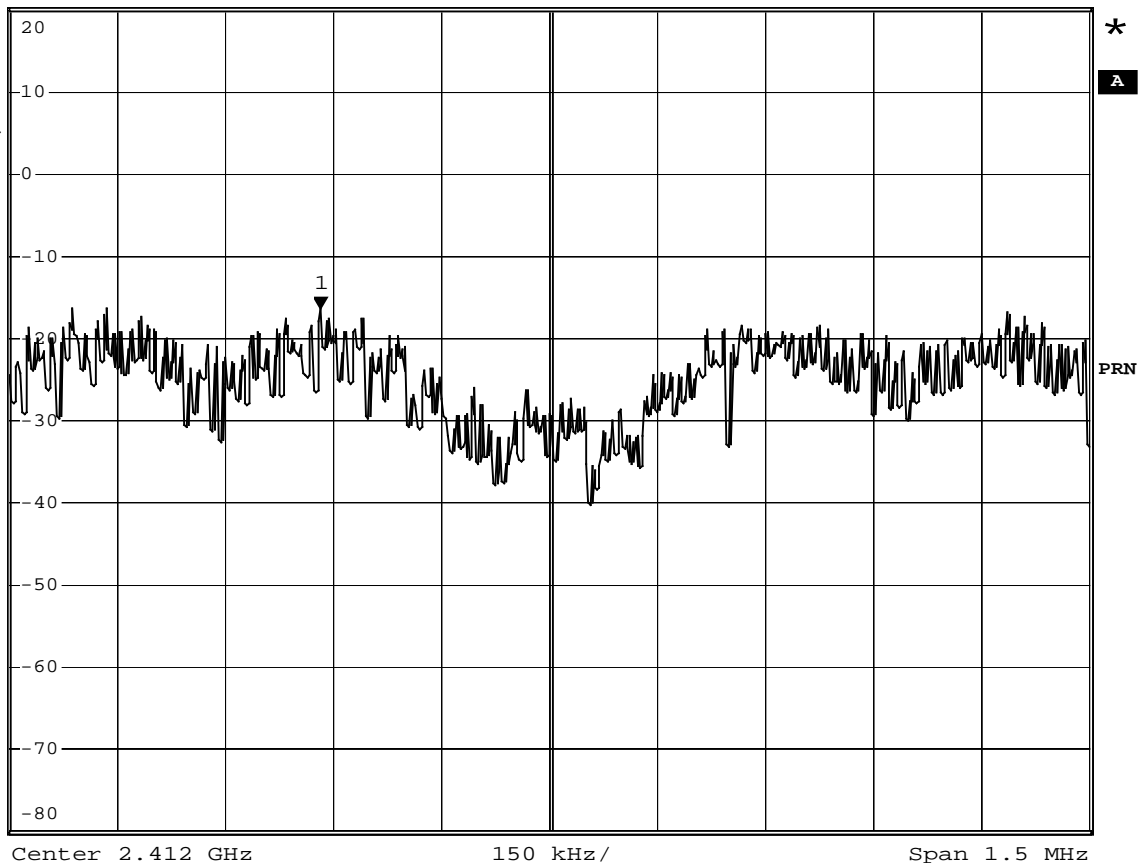
Channel 1



*RBW 3 kHz Marker 1 [T1]
 *VBW 10 kHz -16.31 dBm
 *SWT 500 s 2.411682000 GHz

Ref 20 dBm

*Att 30 dB



Date: 29.AUG.2008 13:03:33

Channel 6

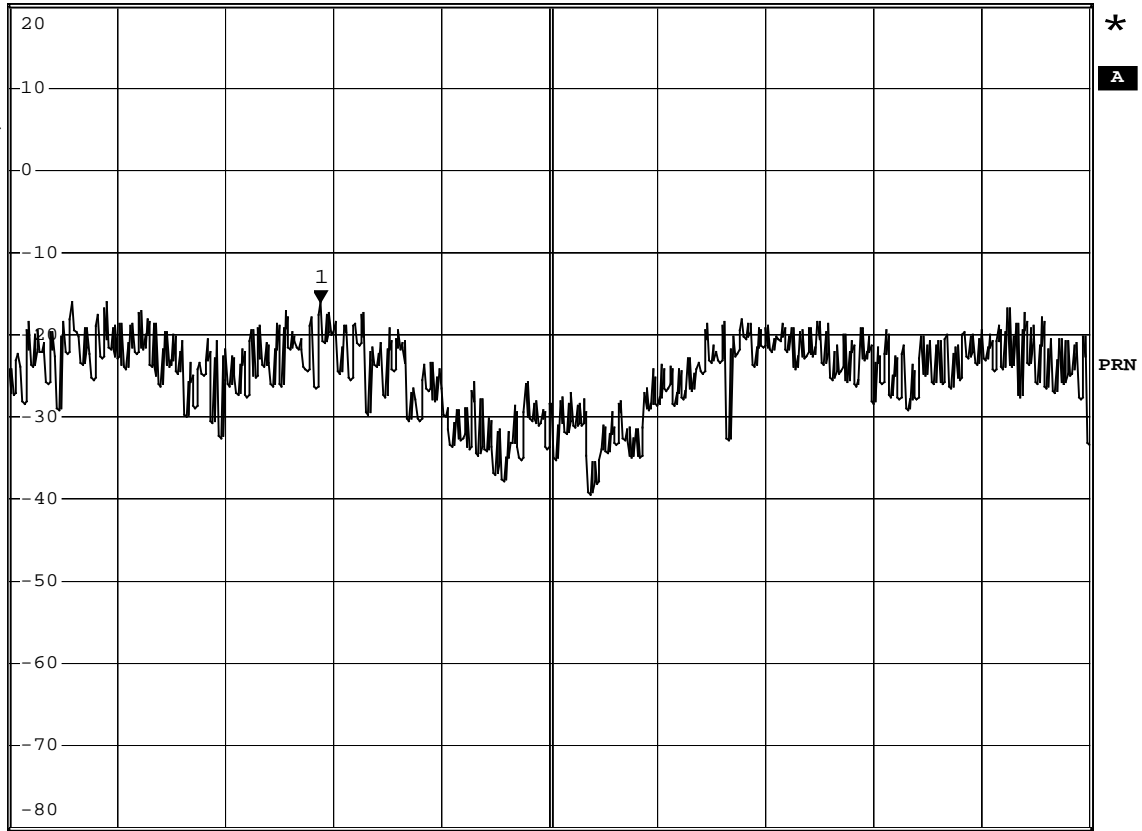


*RBW 3 kHz Marker 1 [T1]
*VBW 10 kHz -15.96 dBm
*SWT 500 s 2.436682000 GHz

Ref 20 dBm

*Att 30 dB

1 PK*
VIEW



Center 2.437 GHz

150 kHz/

Span 1.5 MHz

Date: 29.AUG.2008 13:01:18

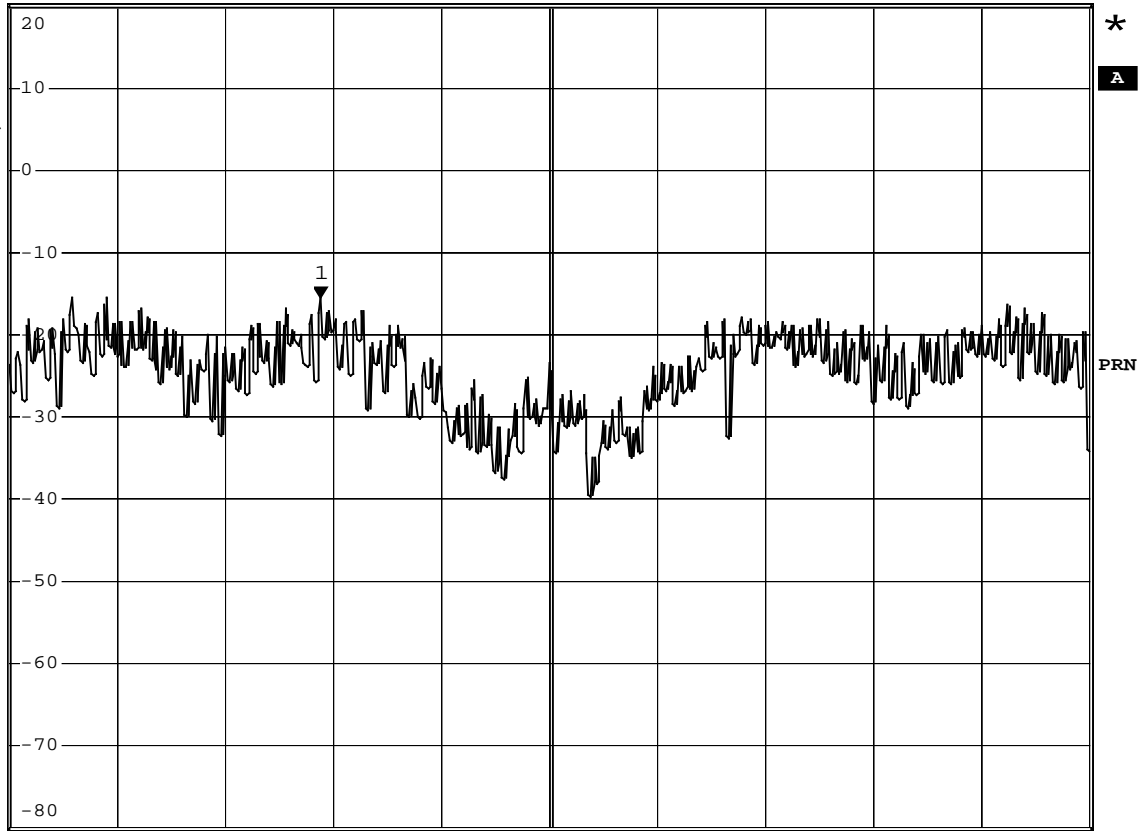
Channel 11



*RBW 3 kHz Marker 1 [T1]
*VBW 10 kHz -15.59 dBm
*SWT 500 s 2.461682000 GHz

Ref 20 dBm *Att 30 dB

1 PK*
VIEW



Center 2.462 GHz 150 kHz/ Span 1.5 MHz

Date: 29.AUG.2008 13:05:17