



NVLAP LAB CODE 200707-0



FCC PART 15.247


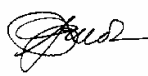
MEASUREMENT AND TEST REPORT

For

Shanghai Dareglobal Technologies Co., Ltd.

22F, Info Tech Building, No.1555, Kongjiang Road, Shanghai, China

FCC ID: RS3DB120-WL

This Report Concerns: <input checked="" type="checkbox"/> Original Report		Equipment Type: ADSL Modem/ADSL2+Router	
Test Engineer:	Henry Yang		
Report No.:	RSH07051752 Rev B		
Test Date:	2007-07-18 to 2008-02-24		
Report Date:	2007-09-06		
Reviewed By:	EMC Manager: Boni Baniqued		
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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The SHANGHAI DAREGLOBAL TECHNOLOGIES CO., LTD 's product, model number: DB120-WL or the "EUT" as referred to in this report is a ADSL Modem/ADSL2+Router, which measures approximately: 16.4 cm L x 12.7 cm W x 3.0 cm H, rated input voltage: DC 12V adapter.

Adapter Information:

Manufacturer: DVE

Model: DSA-15P-12

Input: 100-240V 50-60Hz 0.5A

Output: 12V 0.7A

** All measurement and test data in this report was gathered from production sample serial number: 0705005 (Assigned by BAACL, Shenzhen). The EUT was received on 2007-05-17.*

Objective

This Type approval report is prepared on behalf of SHANGHAI DAREGLOBAL TECHNOLOGIES CO., LTD in accordance with Part 2, Subpart J, Part 15, Subparts A, B and C of the Federal Communication Commissions rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.209 and 15.247 rules.

Related Submittal(s)/Grant(s)

No related submittal(s).

Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-2003, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

All emissions measurement was performed by Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp.(Shenzhen) to collect test data is located in the 6/F, the 3rd Phase of WanLi Industrial Building, ShiHua Road, FuTian Free Trade Zone Shenzhen, Guangdong, China.

Test site at Bay Area Compliance Laboratories Corp. (Shenzhen) has been fully described in reports submitted to the Federal Communication Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on November 04, 2004. The facility also complies with the radiated and AC and DC line conducted test site criteria set forth in ANSI C63.4-2003.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 382179. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

Additionally, Bay Area Compliance Laboratories Corp. (Shenzhen) is a National Institute of Standards and Technology (NIST) accredited laboratory, under the National Voluntary Laboratory Accredited Program (Lab Code 200707-0).



NVLAP LAB CODE 200707-0

The current scope of accreditations can be found at <http://ts.nist.gov/Standards/scopes/2007070.htm>

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in a typical fashion (as normally used by a typical user).

EUT Exercise Software

N/A

Special Accessories

N/A

Equipment Modifications

No modifications were made to the EUT.

Host System Configuration List and Details

Manufacturer	Description	Model	Serial Number	FCC ID
DELL	PC	DELL 170L	CN-0TC670-70821-560-F4Q6	DoC
DELL	Keyboard	SK-8110	CN07N244-71616-56A-1B1E	DoC
DELL	Mouse	M071KC	520027907	DoC
DELL	LCD Monitor	1505FP	Y4287-7168-571-GBSH	DoC
ProMOS	Memory	V826632K24SATG-C0	0525-K1933700	DoC
Intel	CPU	Celeron D-2533	N/A	DoC

Local Support Equipment List and Details

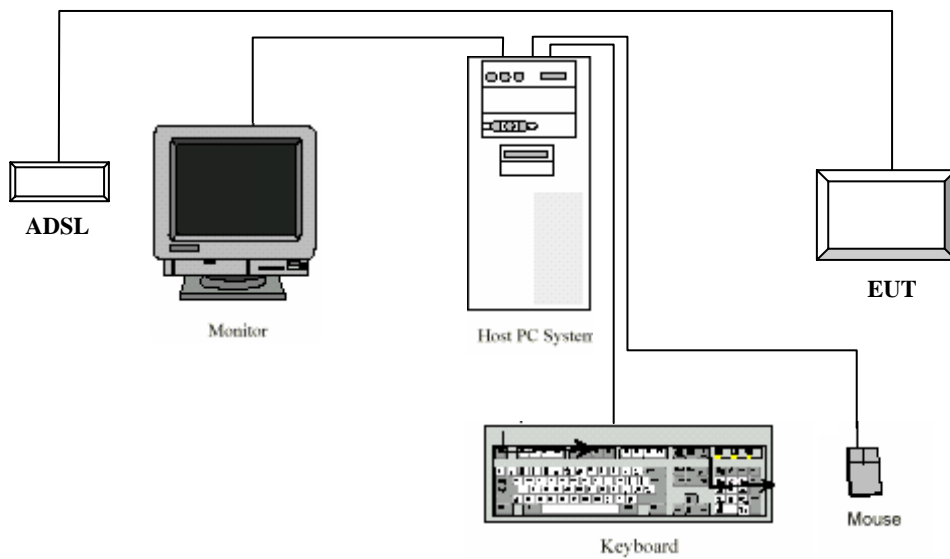
Manufacturer	Description	Model	Serial Number	FCC ID
DELL	Motherboard	OWC297	CN-OWC297-70821-564-00NI	DoC
DELL	Power	NPS-250KB D	CN-0H2678-17972-56E-80BM	DoC
Seagate	Hard Disk	ST340014A	5JXK3GXE	DoC
DELL	3.5' Floppy	N/A	CN-0N8893-69802-54Q-02P0	DoC
Lite-ON	CD-Rom	LTN-489S	N/A	DoC
Intel	Ethernet	PRO 10/100 VE	N/A	DoC

External I/O Cable

Cable Description	Length (M)	From Port	To
Shielded Detachable K/B Cable	1.5	K/B Port /Host	K/B
Shielded Detachable Mouse Cable	1.5	Mouse Port /Host	Mouse
Shielded Detachable VGA Cable	1.5	VGA Port/Host	Monitor
Unshielded Detachable Power Cable	1.8	EUT	Adapter

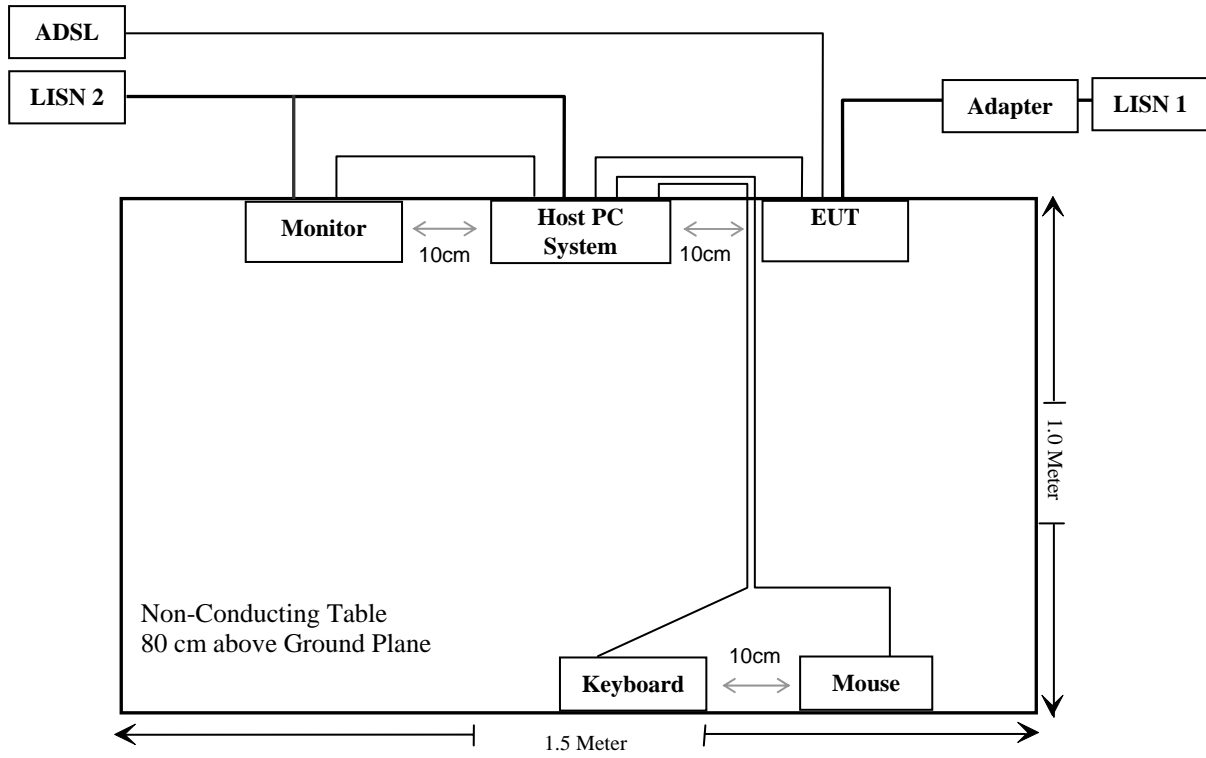
Configuration of Test Setup

Transmitting Mode (Main Port):



Block Diagram of Test Setup

Transmitting Mode (Main Port):



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.247 (i), §1.1307 (b)(1)	Maximum Permissible exposure (MPE)	Compliant
§15.203	Antenna Requirement	Compliant
§15.207 (a)	Conducted Emissions	Compliant
§15.247(d)	Spurious Emissions at Antenna Port	Compliant
§15.205	Restricted Bands	Compliant
§15.109, §15.205, §15.209, §15.247(d)	Radiated Spurious Emissions	Compliant
§15.247 (a)(2)	6 dB Bandwidth	Compliant
§15.247(b)(3)	Maximum Peak Output Power	Compliant
§15.247(d)	100kHz Bandwidth of Frequency Band Edge	Compliant
§15.247(e)	Power Spectral Density	Compliant

§15.247 (i) and §1.1307 (b) (1) - MAXIMUM PERMISSIBLE EXPOSURE**Limit**

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

According to §1.1310 and §2.1093 RF exposure is calculated.

Limits for General Population/Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (minutes)
Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

f = frequency in MHz

* = Plane-wave equivalent power density

MPE Prediction

Predication of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = PG/4\pi R^2$$

Where: S = power density

P = power input to antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

802.11b Mode

Maximum peak output power at antenna input terminal (dBm): 13.91

Maximum peak output power at antenna input terminal (mW): 24.6

Prediction distance(cm): 20

Prediction frequency(MHz): 2437

Antenna Gain (typical)(dBi): 2.5

Maximum Antenna Gain(numeric): 1.778

Power density at prediction frequency at 20 cm (mW/cm²): 0.009

MPE limit for uncontrolled exposure at predication frequency(mW/cm²): 1.0

802.11g Mode

Maximum peak output power at antenna input terminal (dBm):	<u>5.94</u>
Maximum peak output power at antenna input terminal (mW):	<u>3.93</u>
Prediction distance(cm):	<u>20</u>
Prediction frequency(MHz):	<u>2437</u>
Antenna Gain (typical)(dBi):	<u>2.5</u>
Maximum Antenna Gain(numeric):	<u>1.778</u>
Power density at prediction frequency at 20 cm (mW/cm ²):	<u>0.001</u>
MPE limit for uncontrolled exposure at predication frequency(mW/cm ²):	<u>1.0</u>

Test Result

The predicted power density level at 20 cm is 0.009 mW/cm² for 802.11 b mode and 0.001 mW/cm² for 802.11 g mode. Both are below the uncontrolled exposure limit of 1.0 mW/cm² at 2437 MHz. The EUT is used at least 20 cm away from user's body. It is determined as mobile equipment and complies with the MPE limit.

§15.203 - ANTENNA REQUIREMENT

Standard Applicable

According to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

And according to § 15.247 (b) (4), if transmitting antennas of directional gain greater than 6 dBi are used the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Antenna Connector Construction

The EUT uses a unique coupling antenna. The maximum gain is 2.5 dBi, please refer to the EUT photos.

Result: Complaint.

§15.207 - CONDUCTED EMISSIONS

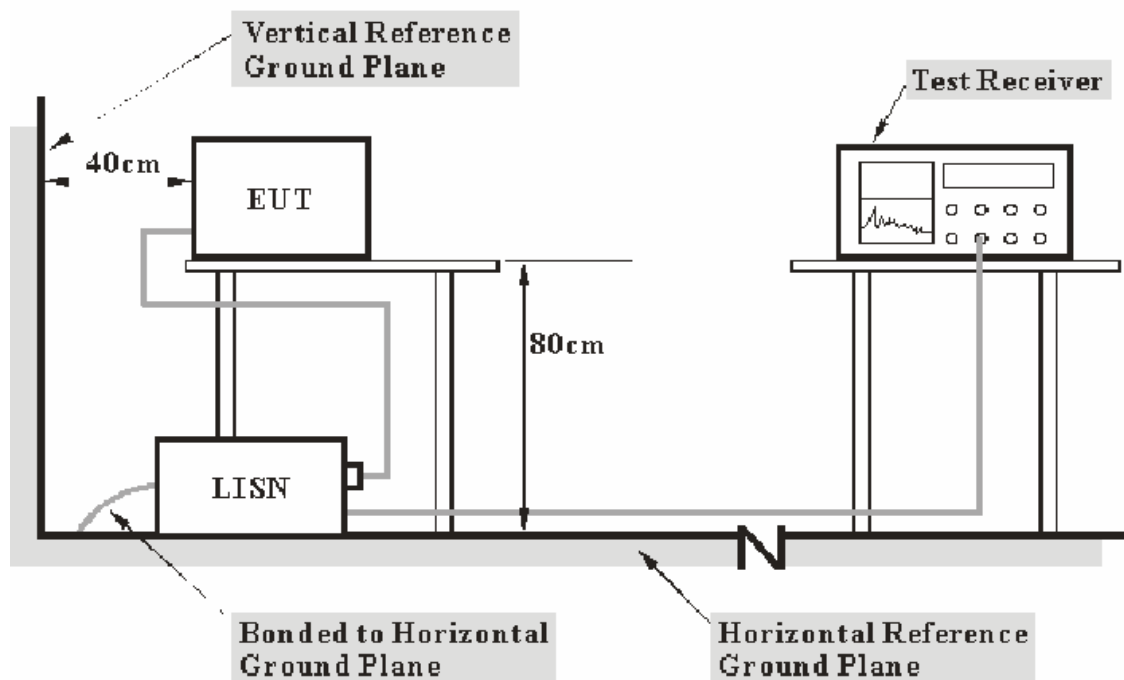
Section 15.207 Conducted limits:

For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequencies ranges.

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56 *	56 to 46 *
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

EUT Setup



- Note: 1. Support units were connected to second LISN.
 2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.4-2003 measurement procedure. The specification used was with the FCC Part 15 Class B limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

The adapter was connected to a 120 VAC/60 Hz power source.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

<i>Frequency Range</i>	<i>IF B/W</i>
150 kHz – 30 MHz	9 kHz

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Com-Power	L.I.S.N.	LI-200	12005	N/A	N/A
Com-Power	L.I.S.N.	LI-200	12208	N/A	N/A
Rohde & Schwarz	EMI Test Receiver	ESCS30	DE25330	2007-03-26	2008-03-26
Rohde & Schwarz	L.I.S.N.	ESH2-Z5	892107/021	2007-03-26	2008-03-26

* Com-Power's LISN were used as the supporting equipment.

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Procedure

During the conducted emission test, the adapter was connected to the outlet of the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and average detection mode.

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Part 15.207, with the worst margin reading of:

4.17 dB at 0.3100 MHz in the **Neutral** conductor mode.

Test Data**Environmental Conditions**

Temperature:	22 ° C
Relative Humidity:	55%
ATM Pressure:	100.0 kPa

The testing was performed by Henry Yang on 2007-07-18.

Test Mode: Transmitting

Line Conducted Emissions				FCC Part15.207	
Frequency (MHz)	Amplitude (dB μ V)	Detector (QP/AV)	Conductor Hot/Neutral	Limit (dB μ V)	Margin (dB)
0.3100	55.80	QP	Neutral	59.97	4.17
0.3700	52.00	QP	Neutral	58.50	6.50
0.3700	40.50	AV	Neutral	48.50	8.00
0.3100	41.20	AV	Neutral	49.97	8.77
0.3300	50.10	QP	Hot	59.45	9.35
0.6700	46.50	QP	Neutral	56.00	9.50
0.9200	45.90	QP	Neutral	56.00	10.10
1.3210	45.80	QP	Neutral	56.00	10.20
1.5100	45.60	QP	Neutral	56.00	10.40
0.3300	38.80	AV	Hot	49.45	10.65
0.3700	46.70	QP	Hot	58.50	11.80
0.9200	33.90	AV	Neutral	46.00	12.10
0.6700	33.80	AV	Neutral	46.00	12.20
0.4510	43.10	QP	Hot	56.86	13.76
1.3210	31.80	AV	Neutral	46.00	14.20
0.3700	34.10	AV	Hot	48.50	14.40
10.1300	35.20	AV	Hot	50.00	14.80
1.5100	31.10	AV	Neutral	46.00	14.90
0.4510	31.40	AV	Hot	46.86	15.46
1.0100	39.90	QP	Hot	56.00	16.10
0.7200	39.70	QP	Hot	56.00	16.30
10.1300	42.00	QP	Hot	60.00	18.00
0.7200	27.70	AV	Hot	46.00	18.30
1.0100	27.30	AV	Hot	46.00	18.70

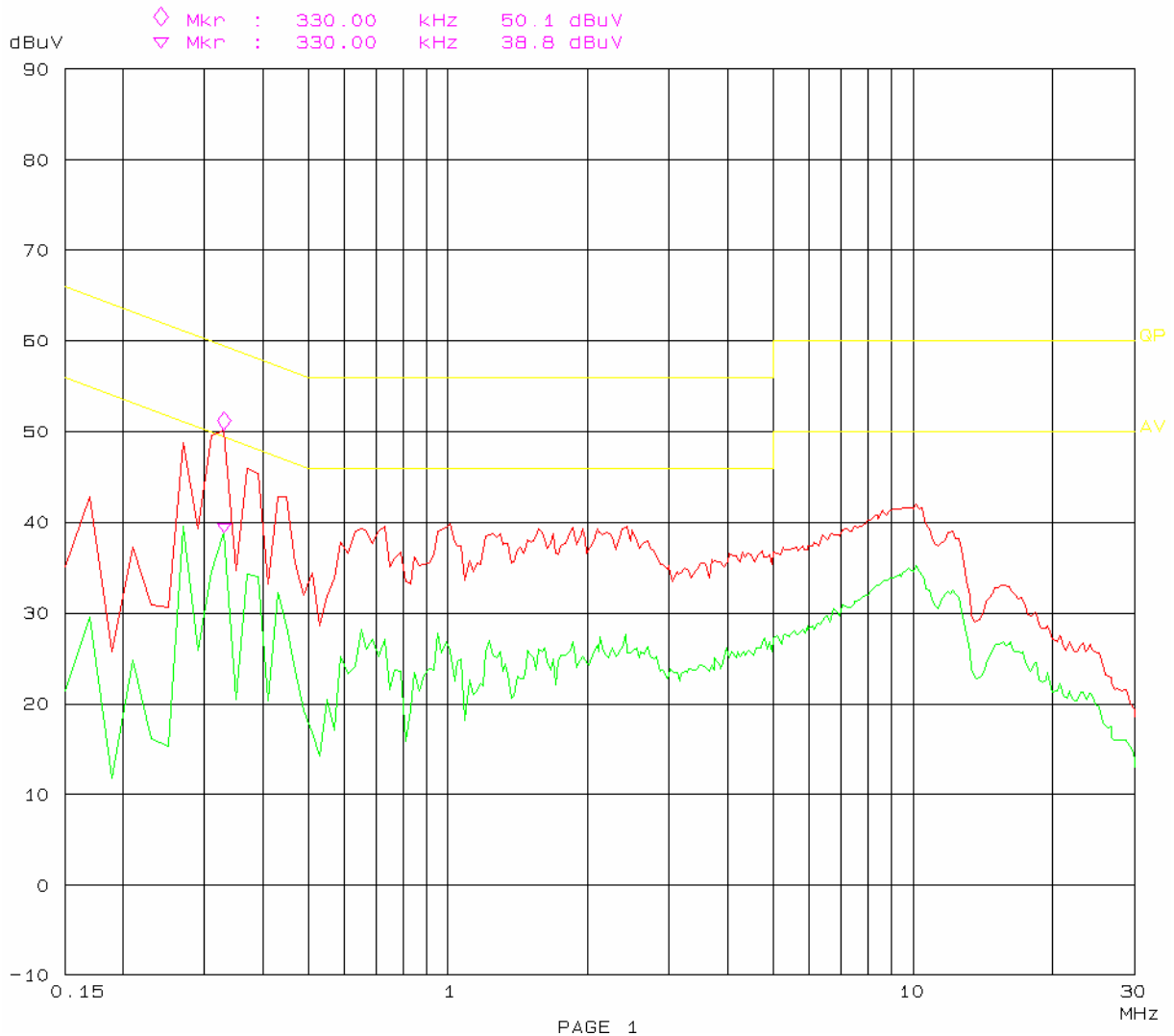
Plot(s) of Test Data

Plot(s) of Test Data is presented hereinafter as reference.

Conducted Emission Test
FCC part 15

18. Jul 07 14:05

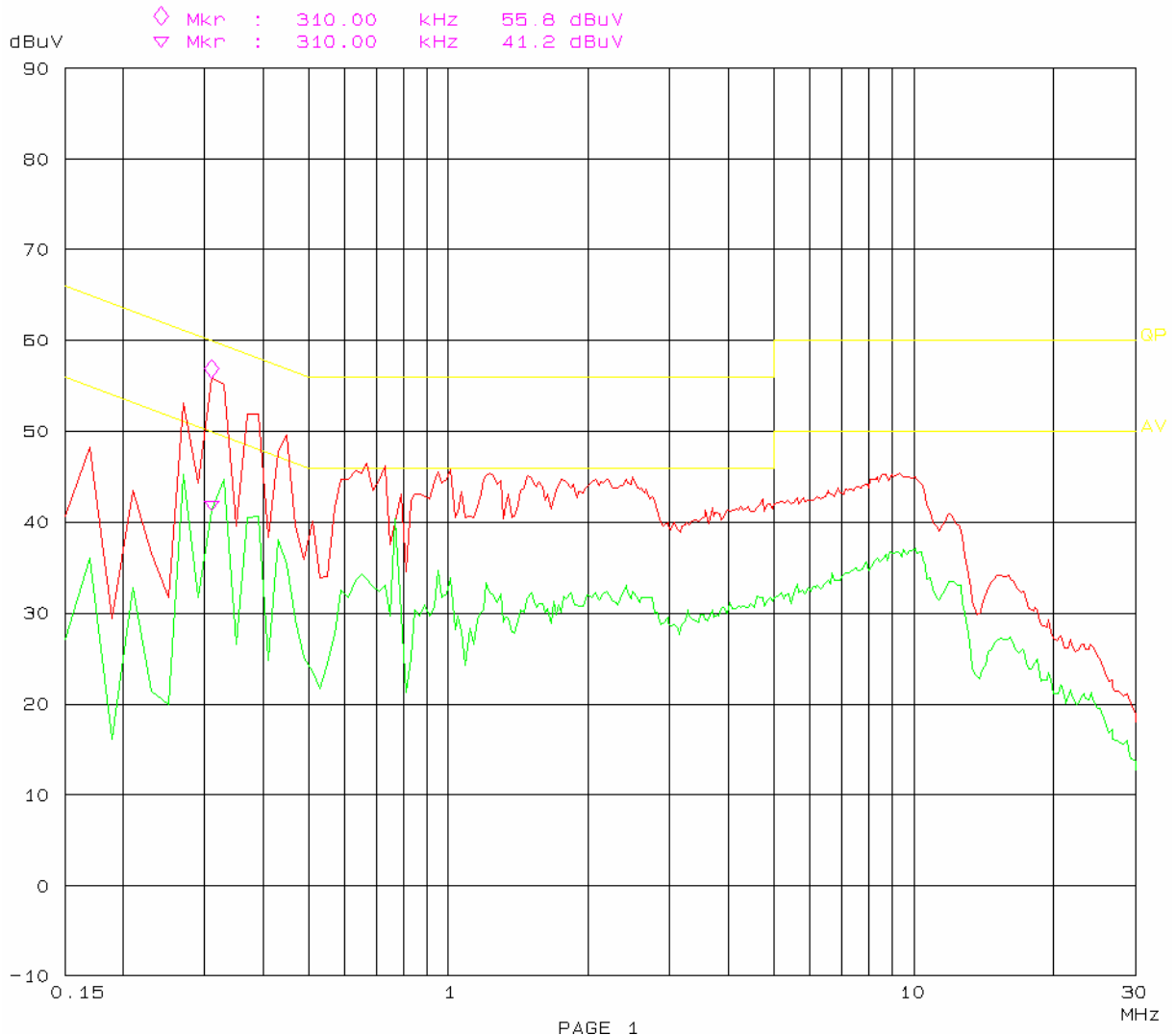
EUT: ADSL Modem/ADSL+Router M/N: DB120-WL
Manuf: Shanghai Dare
Op Cond: Transmitt
Operator: Henry H
Test Spec: AC120V/60Hz L
Comment: Temp: 25 Humi: 56%



Conducted Emission Test FCC part 15

18. Jul 07 13:35

EUT: ADSL Modem/ADSL+Router M/N: DB120-WL
Manuf: Shanghai Dare
Op Cond: Transmitting
Operator: Henry
Test Spec: AC120V/60Hz N
Comment: Temp: 25 Humi: 56%



§15.209, §15.205, §15.209, §15.247(d) - RADIATED SPURIOUS EMISSIONS

Applicable Standard

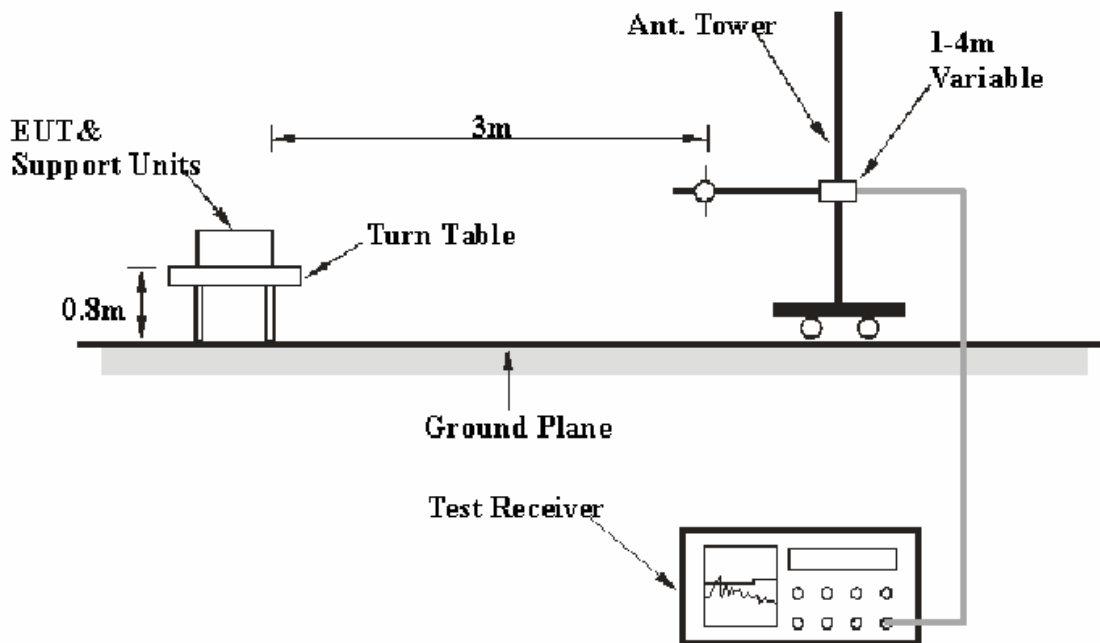
FCC §15.247 (d), §15.205, §15.209.

Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

Based on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of a radiation emissions measurement at Bay Area Compliance Laboratories Corp. (Shenzhen) is ± 4.0 dB.

EUT Setup



The radiated emission tests were performed in the 3 meters chamber B test site, using the setup accordance with the ANSI C63.4-2003. The specification used was the FCC 15.109, FCC 15.209 and FCC 15.247 limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

The adapter was connected to a 120 VAC/60 Hz power source.

EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 30 MHz to 25 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

<i>Frequency Range</i>	<i>RBW</i>	<i>Video B/W</i>
30MHz – 1000 MHz	100 kHz	300 kHz
1000 MHz – 25 GHz	1 MHz	3 MHz

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
HP	Amplifier	HP8447D	2944A09795	2006-11-15	2007-11-15
Rohde & Schwarz	EMI Test Receiver	ESCI	100035	2006-10-16	2007-10-16
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2006-08-14	2007-08-14
HP	Amplifier	8449B	3008A00277	2006-09-29	2007-09-29
Sunol Sciences	Horn Antenna	DRH-118	A052604	2006-09-25	2007-09-25
Rohde&Schwarz	Spectrum Analyzer	FSEM30	849720/019	2007-05-09	2008-05-09

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Procedure

For the radiated emissions test, the adapter was connected to the AC floor outlet.

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

Data was recorded in Quasi-peak detection mode for frequency range of 30 MHz-1GHz and peak and Average detection modes for frequencies above 1GHz.

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

$$\text{Corrected Amplitude} = \text{Meter Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit for Class B. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Part 15C with the worst margin reading of:

- 6.1 dB at 299.998250 MHz in the Horizontal polarization, for 30 MHz-1000MHz**
- 2.1 dB at 7236.0 MHz in the Vertical polarization, for above 1GHz (802.11b Channel 1 (2412MHz))**
- 4.1 dB at 7326.0 MHz in the Vertical polarization, for above 1GHz (802.11b Channel 7 (2442MHz))**
- 2.5 dB at 7386.0 MHz in the Vertical polarization, for above 1GHz (802.11b Channel 11 (2462MHz))**
- 5.0 dB at 4824.0 MHz in the Vertical polarization, for above 1GHz (802.11g Channel 1 (2412MHz))**
- 2.8 dB at 4884.0 MHz in the Vertical polarization, for above 1GHz (802.11g Channel 7 (2442MHz))**
- 1.5 dB at 7386.0 MHz in the Vertical polarization, for above 1GHz (802.11g Channel 11 (2462MHz))**

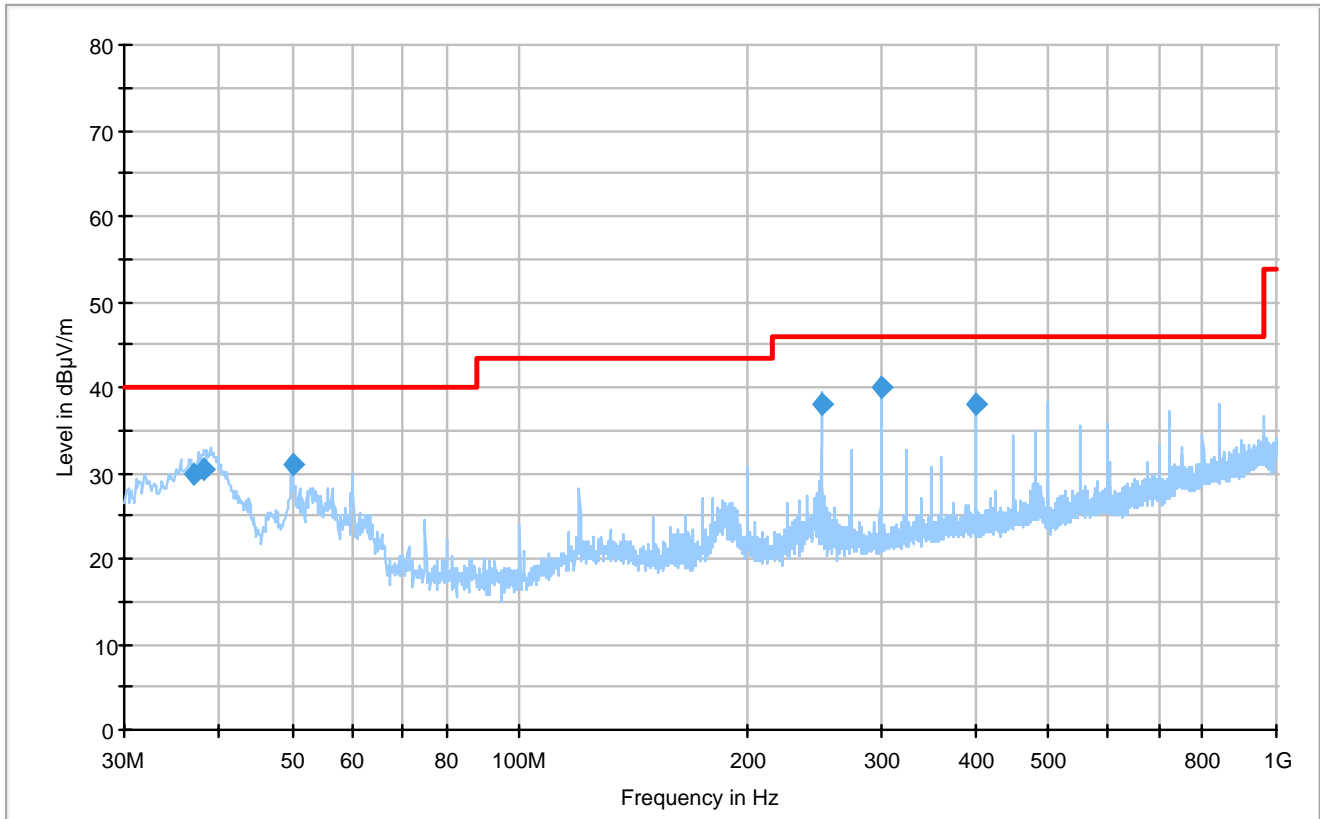
Test Data

Environmental Conditions

Temperature:	25 ° C
Relative Humidity:	52%
ATM Pressure:	100.9kPa

The testing was performed by Henry Yang on 2007-07-18.

Test Mode: Transmitting (30-1000MHz)



Frequency (MHz)	Corrected Amplitude (dBµV/m)	Antenna Height (cm)	Polarity	Turntable Position (deg)	Correction Factor (dB)	Limit (dBµV/m)	Margin (dB)
299.998250	39.9	100.0	H	273.0	-9.4	46.0	6.1
400.043750	38.1	252.0	H	263.0	-7.6	46.0	7.9
249.996750	37.9	119.0	H	9.0	-11.5	46.0	8.1
49.983750	31.1	101.0	V	89.0	-17.8	40.0	8.9
38.099125	30.5	101.0	V	0.0	-10.5	40.0	9.5
37.074500	29.8	118.0	V	21.0	-9.7	40.0	10.2

Test Mode: Transmitting (Above 1GHz)

Freq. (MHz)	Receiver Reading (dBuV)	Detector PK/AV	Direction Degree	Antenna			Cable Loss (dB)	Pre- Amp. Gain (dB)	Cord. Amp. (dBuV/m)	FCC Part 15.247/15.209	
				Height (m)	Polar (H/V)	Factor (dB/m)				Limit (dBuV/m)	Margin (dB)
802.11b Channel 1 (2412MHz)											
7236.0	45.7	AV	45.0	1.2	V	35.4	4.5	33.7	51.9	54.0	2.1
4824.0	48.5	AV	270.0	1.0	V	31.3	4.6	33.4	51.0	54.0	3.0
7236.0	44.6	AV	80.0	1.0	H	35.4	4.5	33.7	50.8	54.0	3.2
4824.0	47.2	AV	175.0	1.2	H	31.3	4.6	33.4	49.7	54.0	4.3
1495.0	49.2	AV	90.0	1.2	V	25.4	2.8	35.5	41.9	54.0	12.1
1495.0	48.3	AV	45.0	1.2	H	25.4	2.8	35.5	41.0	54.0	13.0
4824.0	58.5	PK	45.0	1.2	V	31.3	4.6	33.4	61.0	74.0	13.0
7236.0	49.8	PK	45.0	1.0	V	35.4	4.5	33.7	56.0	74.0	18.0
4824.0	53.4	PK	180.0	1.2	H	31.3	4.6	33.4	55.9	74.0	18.1
7236.0	47.2	PK	90.0	1.0	H	35.4	4.5	33.7	53.4	74.0	20.6
1495.0	55.2	PK	60.0	1.2	V	25.4	2.8	35.5	47.9	74.0	26.1
1495.0	51.6	PK	60.0	1.0	H	25.4	2.8	35.5	44.3	74.0	29.7
802.11b Channel 7 (2442MHz)											
7326.0	43.7	AV	45.0	1.2	V	35.4	4.5	33.7	49.9	54.0	4.1
4884.0	46.4	AV	180.0	1.2	V	31.3	4.6	33.4	48.9	54.0	5.1
7326.0	40.8	AV	90.0	1.0	H	35.4	4.5	33.7	47.0	54.0	7.0
4884.0	43.1	AV	175.0	1.2	H	31.3	4.6	33.4	45.6	54.0	8.4
1495.3	45.5	AV	180.0	1.2	V	25.4	2.8	35.5	38.2	54.0	15.8
7326.0	49.5	PK	45.0	1.0	V	35.4	4.5	33.7	55.7	74.0	18.3
4884.0	52.3	PK	120.0	1.0	V	31.3	4.6	33.4	54.8	74.0	19.2
7326.0	46.8	PK	120.0	1.2	H	35.4	4.5	33.7	53.0	74.0	21.0
4884.0	49.8	PK	180.0	1.2	H	31.3	4.6	33.4	52.3	74.0	21.7
1495.3	38.9	AV	45.0	1.0	H	25.4	2.8	35.5	31.6	54.0	22.4
1495.3	52.7	PK	180.0	1.2	V	25.4	2.8	35.5	45.4	74.0	28.6
1495.3	42.1	PK	180.0	1.0	H	25.4	2.8	35.5	34.8	74.0	39.2
802.11b Channel 11 (2462MHz)											
7386.0	45.2	AV	120.0	1.0	V	35.4	4.6	33.7	51.5	54.0	2.5
4924.0	47.5	AV	180.0	1.2	V	31.3	4.8	33.4	50.2	54.0	3.8
7386.0	42.1	AV	125.0	1.0	H	35.4	4.6	33.7	48.4	54.0	5.6
4924.0	43.4	AV	175.0	1.2	H	31.3	4.8	33.4	46.1	54.0	7.9
1501.2	48.2	AV	180.0	1.2	V	25.4	3.1	35.5	41.2	54.0	12.8
4924.0	56.2	PK	45.0	1.0	V	31.3	4.8	33.4	58.9	74.0	15.1
7386.0	51.3	PK	45.0	1.0	V	35.4	4.6	33.7	57.6	74.0	16.4
1501.2	42.8	AV	45.0	1.0	H	25.4	3.1	35.5	35.8	54.0	18.2
7386.0	46.5	PK	270.0	1.2	H	35.4	4.6	33.7	52.8	74.0	21.2
4924.0	47.8	PK	180.0	1.2	H	31.3	4.8	33.4	50.5	74.0	23.5
1501.2	54.7	PK	160.0	1.0	V	25.4	3.1	35.5	47.7	74.0	26.3
1501.2	50.8	PK	90.0	1.0	H	25.4	3.1	35.5	43.8	74.0	30.2

Freq. (MHz)	Receiver Reading (dBuV)	Detector PK/AV	Direction Degree	Antenna			Cable Loss (dB)	Pre- Amp. Gain (dB)	Cord. Amp. (dBuV/m)	FCC Part 15.247/15.209	
				Height (m)	Polar (H/V)	Factor (dB/m)				Limit (dBuV/m)	Margin (dB)
802.11g Channel 1 (2412MHz)											
4824.0	46.5	AV	80.0	1.2	V	31.3	4.6	33.4	49.0	54.0	5.0
7236.0	42.1	AV	120.0	1.0	V	35.4	4.5	33.7	48.3	54.0	5.7
7236.0	40.7	AV	180.0	1.0	H	35.4	4.5	33.7	46.9	54.0	7.1
4824.0	43.5	AV	75.0	1.2	H	31.3	4.6	33.4	46.0	54.0	8.0
1500.2	47.8	AV	45.0	1.2	V	25.4	3.1	35.5	40.8	54.0	13.2
1500.2	45.8	AV	45.0	1.0	H	25.4	3.1	35.5	38.8	54.0	15.2
4824.0	53.7	PK	45.0	1.0	V	31.3	4.6	33.4	56.2	74.0	17.8
7236.0	48.9	PK	180.0	1.0	V	35.4	4.5	33.7	55.1	74.0	18.9
4824.0	50.2	PK	60.0	1.2	H	31.3	4.6	33.4	52.7	74.0	21.3
7236.0	46.1	PK	180.0	1.0	H	35.4	4.5	33.7	52.3	74.0	21.7
1500.2	54.6	PK	90.0	1.0	V	25.4	3.1	35.5	47.6	74.0	26.4
1500.2	52.3	PK	90.0	1.0	H	25.4	3.1	35.5	45.3	74.0	28.7
802.11g Channel 7 (2442MHz)											
4884.0	48.7	AV	80.0	1.0	V	31.3	4.6	33.4	51.2	54.0	2.8
7326.0	44.9	AV	120.0	1.0	V	35.4	4.5	33.7	51.1	54.0	2.9
4884.0	45.7	AV	90.0	1.0	H	31.3	4.6	33.4	48.2	54.0	5.8
7326.0	41.4	AV	180.0	1.0	H	35.4	4.5	33.7	47.6	54.0	6.4
1500.2	45.6	AV	60.0	1.2	V	25.4	3.1	35.5	38.6	54.0	15.4
4884.0	55.2	PK	45.0	1.2	V	31.3	4.6	33.4	57.7	74.0	16.3
7326.0	51.4	PK	180.0	1.0	V	35.4	4.5	33.7	57.6	74.0	16.4
7326.0	49.7	PK	180.0	1.0	H	35.4	4.5	33.7	55.9	74.0	18.1
1500.2	42.7	AV	45.0	1.0	H	25.4	3.1	35.5	35.7	54.0	18.3
4884.0	52.3	PK	180.0	1.2	H	31.3	4.6	33.4	54.8	74.0	19.2
1500.2	52.8	PK	90.0	1.0	V	25.4	3.1	35.5	45.8	74.0	28.2
1500.2	48.8	PK	90.0	1.0	H	25.4	3.1	35.5	41.8	74.0	32.2
802.11g Channel 11 (2462MHz)											
7386.0	46.2	AV	120.0	1.0	V	35.4	4.6	33.7	52.5	54.0	1.5
4924.0	47.5	AV	180.0	1.0	V	31.3	4.8	33.4	50.2	54.0	3.8
7386.0	41.7	AV	180.0	1.0	H	35.4	4.6	33.7	48.0	54.0	6.0
4924.0	42.5	AV	180.0	1.0	H	31.3	4.8	33.4	45.2	54.0	8.8
1500.2	48.7	AV	90.0	1.2	V	25.4	3.1	35.5	41.7	54.0	12.3
7386.0	51.6	PK	90.0	1.2	V	35.4	4.6	33.7	57.9	74.0	16.1
1500.2	44.2	AV	45.0	1.0	H	25.4	3.1	35.5	37.2	54.0	16.8
4924.0	53.3	PK	45.0	1.2	V	31.3	4.8	33.4	56.0	74.0	18.0
7386.0	48.3	PK	90.0	1.2	H	35.4	4.6	33.7	54.6	74.0	19.4
4924.0	48.9	PK	45.0	1.2	H	31.3	4.8	33.4	51.6	74.0	22.4
1500.2	55.4	PK	90.0	1.0	V	25.4	3.1	35.5	48.4	74.0	25.6
1500.2	51.8	PK	90.0	1.0	H	25.4	3.1	35.5	44.8	74.0	29.2

§15.247(a) (2) – 6dB BANDWIDTH TESTING

Applicable Standard

Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCI	100035	2006-10-16	2007-10-16

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
3. Measure the frequency difference of two frequencies that were attenuated 6 dB from the reference level. Record the frequency difference as the emission bandwidth.
4. Repeat above procedures until all frequencies measured were complete.

Test Data

Environmental Conditions

Temperature:	25 ° C
Relative Humidity:	50%
ATM Pressure:	100.9 kPa

The testing was performed by Henry Yang on 2007-08-01, 2007-09-06.

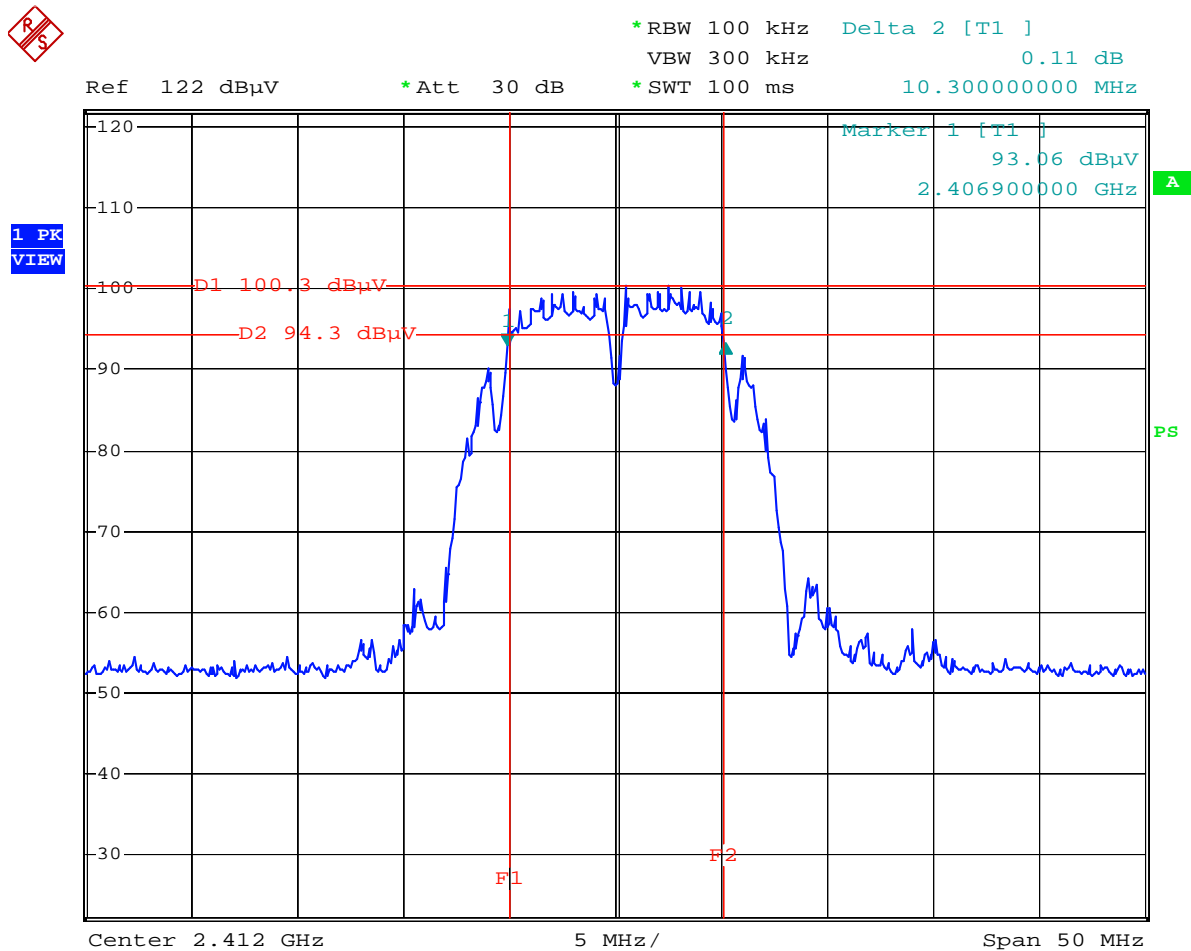
Test Mode: Transmitting

Test Result: Compliant.

Please refer to the following table and plots.

Channel Frequency (MHz)	Data Rate (Mbps)	6dB Bandwidth (kHz)	Limit (kHz)	Ref Plot
802.11b Mode				
2412	11	10300	>500	PLOT-1
2442	11	10100	>500	PLOT-2
2462	11	10000	>500	PLOT-3
802.11g Mode				
2412	54	16200	>500	PLOT-4
2442	54	15900	>500	PLOT-5
2462	54	15740	>500	PLOT-6

PLOT-1



6db bandwidth -802.11b low channel

PLOT-3

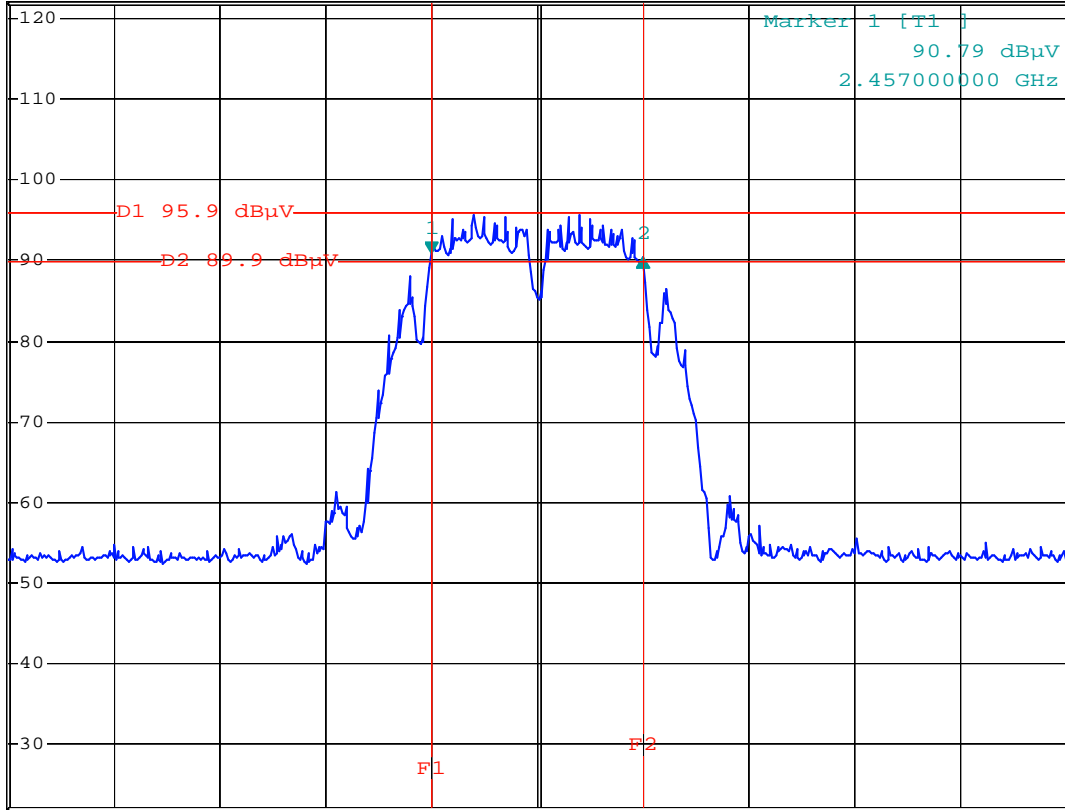


*RBW 100 kHz Delta 2 [T1]
VBW 300 kHz -0.41 dB
*SWT 100 ms 10.00000000 MHz

Ref 122 dBμV

*Att 30 dB

1 PK
VIEW



Center 2.462 GHz

5 MHz/

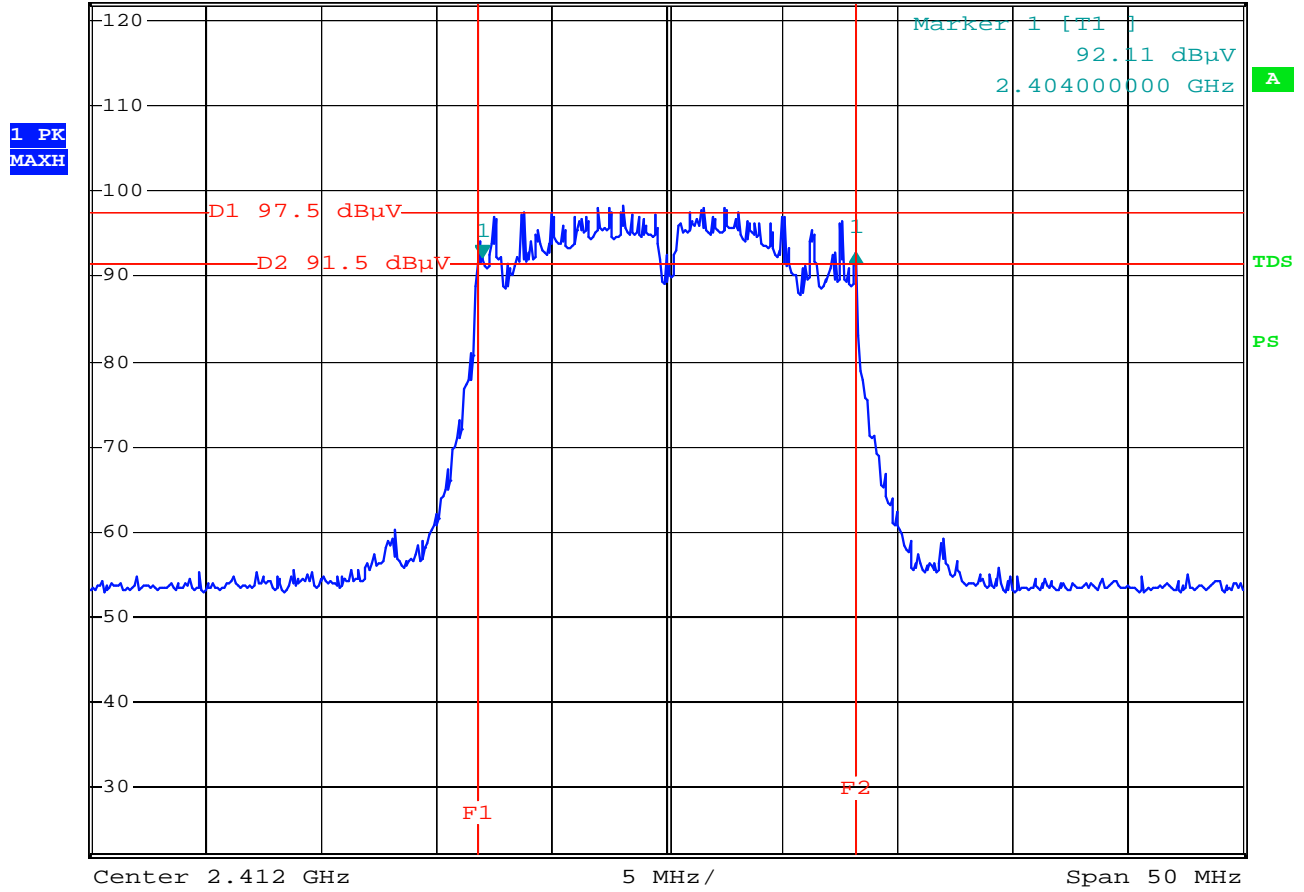
Span 50 MHz

6db bandwidth -802.11b high channel

PLOT-4



Ref 122 dB μ V *Att 30 dB *RBW 100 kHz Delta 1 [T1]
*VBW 300 kHz 0.51 dB
*SWT 100 ms 16.20000000 MHz



6db bandwidth 802.11g -low channel

PLOT-5



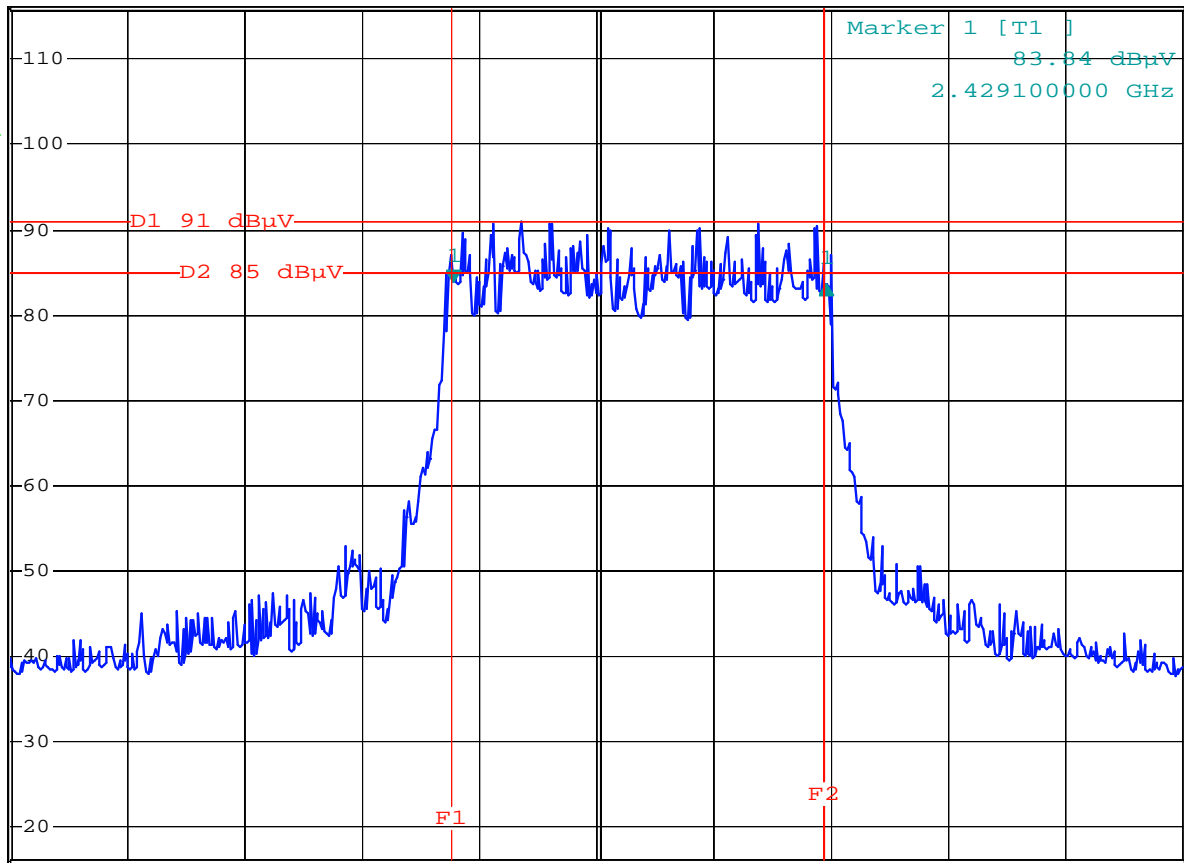
*RBW 100 kHz Delta 1 [T1]
*VBW 300 kHz -0.23 dB
*SWT 100 ms 15.90000000 MHz

Ref 116 dBμV

*Att 30 dB

15.90000000 MHz

1 RM
VIEW



Center 2.4352 GHz

5 MHz/

Span 50 MHz

6db bandwidth 802.11g mid channel

PLOT-6

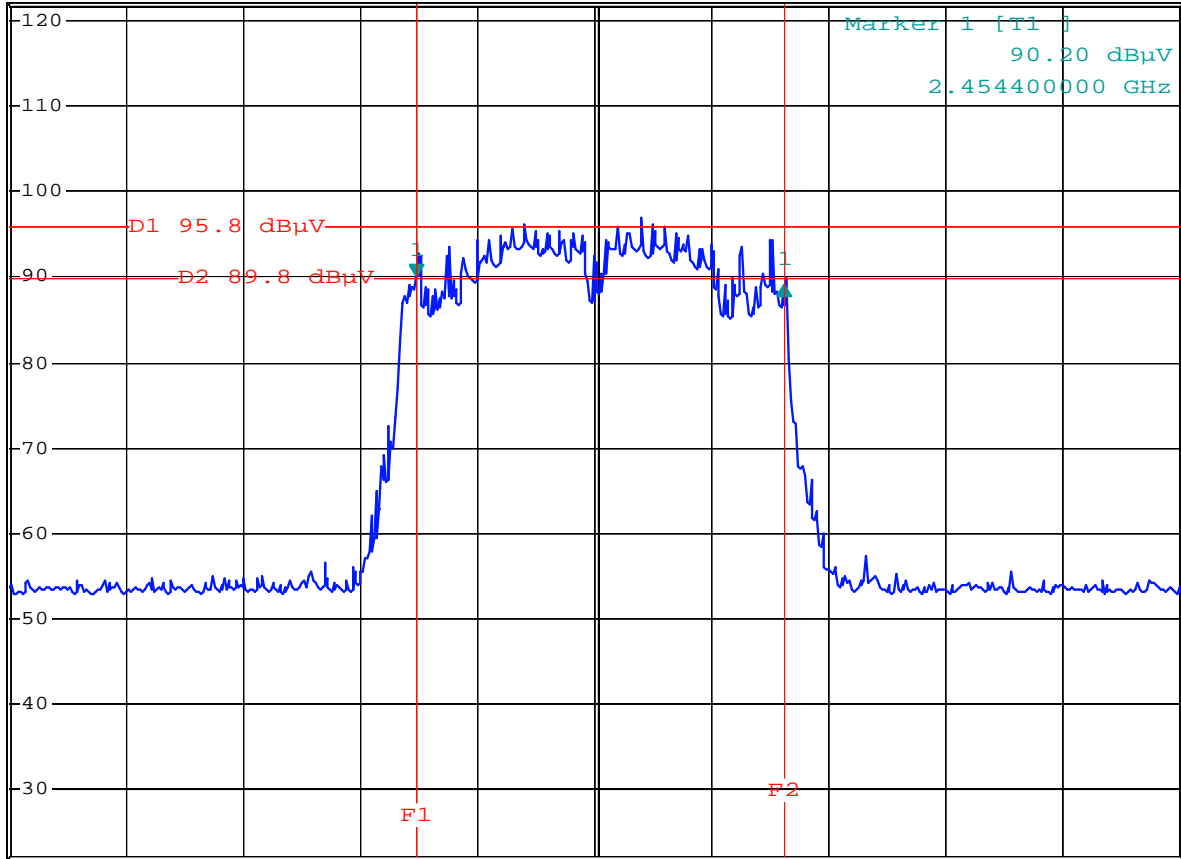


*RBW 100 kHz Delta 1 [T1]
*VBW 300 kHz -1.04 dB
*SWT 100 ms 15.74000000 MHz

Ref 122 dBμV

*Att 30 dB

1 PK
MAXH



Center 2.462 GHz

5 MHz/

Span 50 MHz

6db bandwidth 802.11g high channel

§15.247(b) (3) - MAXIMUM PEAK OUTPUT POWER

Applicable Standard

According to §15.247(b) (3), for systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

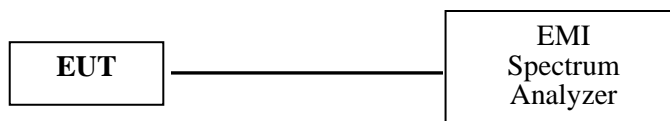
Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCI	100035	2006-10-16	2007-10-16

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Procedure

1. Place the EUT on a bench and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to an EMI Test Receiver.
3. Add a correction factor to the display.



Test Data

Environmental Conditions

Temperature:	27 °C
Relative Humidity:	50 %
ATM Pressure:	100.9 kPa

The testing was performed by Henry Yang on 2007-07-19, 2007-07-20, and 2007-09-06.

Test Result: Compliant.

Please refer to the following table and plots.

Test mode: Transmitting

802.11b Mode

Channel	Frequency (MHz)	Reading Power (dBm)	Corrected Loss (dB)	Power Output (dBm)	Limit dBm
Low	2412	12.63	0.51	13.14	30
Mid	2437	13.91	0.52	14.43	30
High	2462	11.71	0.55	12.26	30

802.11g Mode

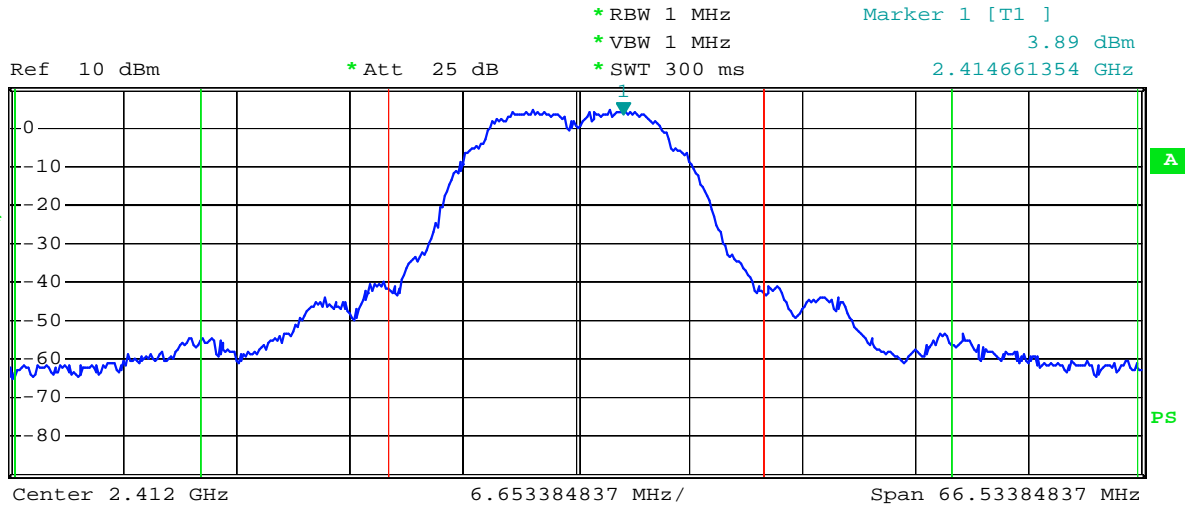
Channel	Frequency (MHz)	Reading Power (dBm)	Corrected Loss (dB)	Power Output (dBm)	Limit dBm
Low	2412	4.84	1.55	6.39	30
Mid	2437	5.65	1.57	7.22	30
High	2462	5.94	1.58	7.52	30

802.11b Mode

Low Channel



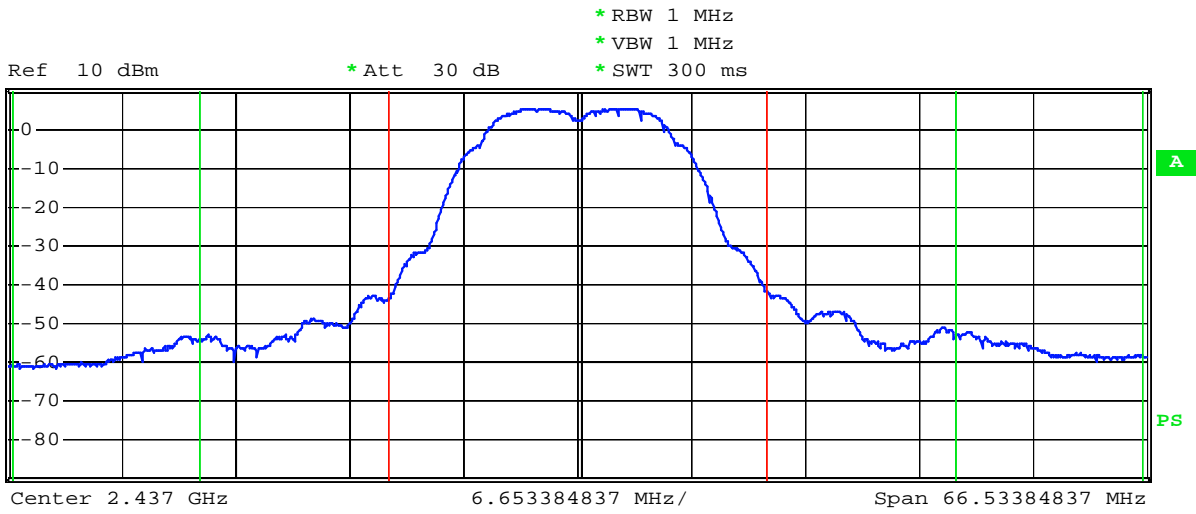
1 RM
MAXH



Tx Channel		WLAN 802.11B	
Bandwidth	22 MHz	Power	12.63 dBm
Adjacent Channel		Lower	-49.96 dB
Bandwidth	11 MHz	Upper	-50.02 dB
Spacing	16.5 MHz		
Alternate Channel		Lower	-62.75 dB
Bandwidth	11 MHz	Upper	-61.98 dB
Spacing	27.5 MHz		

802.11b channel power low channel

Middle Channel



Tx Channel		WLAN 802.11B	
Bandwidth	22 MHz	Power	13.91 dBm
Adjacent Channel		Lower	-53.28 dB
Bandwidth	11 MHz	Upper	-52.43 dB
Spacing	16.5 MHz		
Alternate Channel		Lower	-61.99 dB
Bandwidth	11 MHz	Upper	-60.22 dB
Spacing	27.5 MHz		

802.11b channel power middle channel

802.11g Mode

Low Channel

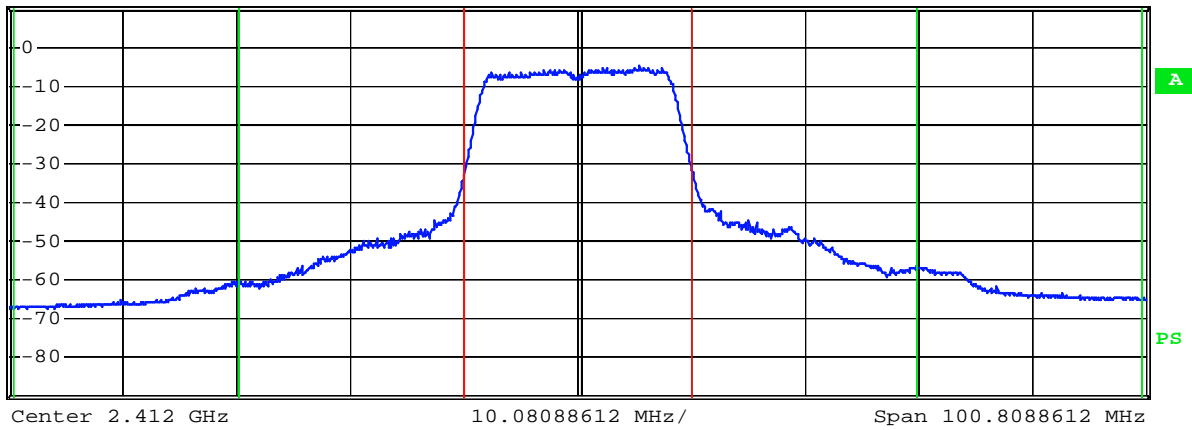


* RBW 1 MHz
 * VBW 1 MHz
 * SWT 300 ms

Ref 10 dBm

* Att 30 dB

1 RM
 VIEW

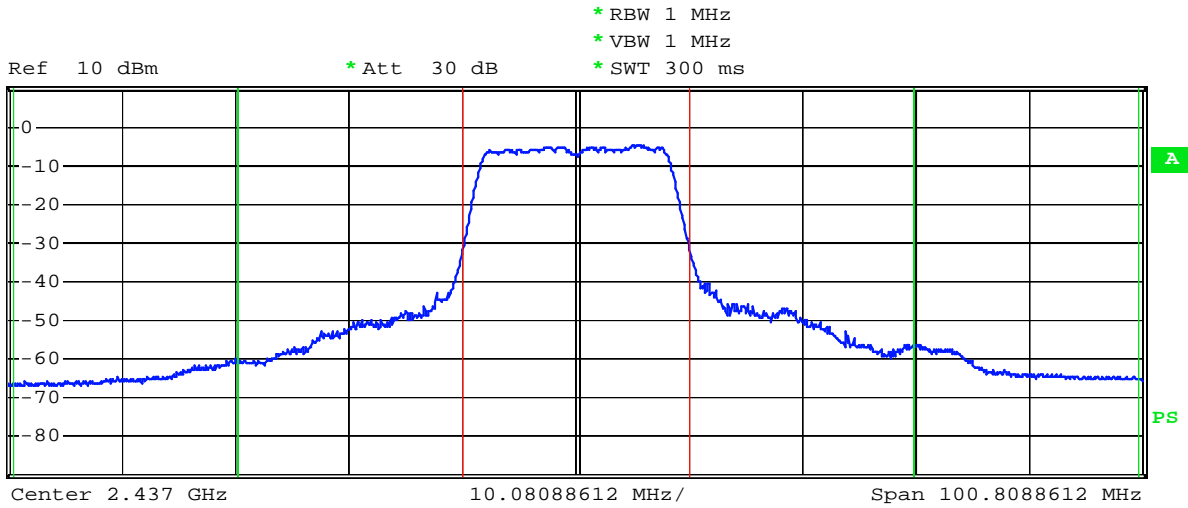


Tx Channel		1	
Bandwidth	20 MHz	Power	4.84 dBm
Adjacent Channel			
Bandwidth	20 MHz	Lower	-39.72 dB
Spacing	20 MHz	Upper	-36.62 dB
Alternate Channel			
Bandwidth	20 MHz	Lower	-57.27 dB
Spacing	40 MHz	Upper	-53.97 dB

802.11g channel power low channel

16 555 0000 01 07 07

Middle Channel



1 RM
 VIEW

Tx Channel			
Bandwidth	20 MHz	Power	5.65 dBm
Adjacent Channel			
Bandwidth	20 MHz	Lower	-40.01 dB
Spacing	20 MHz	Upper	-37.47 dB
Alternate Channel			
Bandwidth	20 MHz	Lower	-57.66 dB
Spacing	40 MHz	Upper	-54.81 dB

802.11g channel power middle channel

High Channel

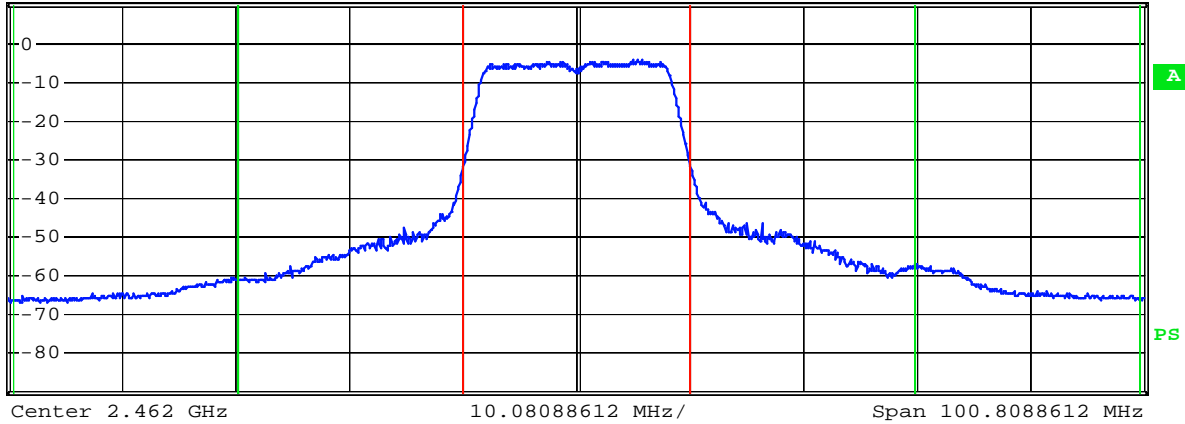


* RBW 1 MHz
 * VBW 1 MHz
 * SWT 300 ms

Ref 10 dBm

* Att 30 dB

1 RM
 VIEW



Center 2.462 GHz

10.08088612 MHz/

Span 100.8088612 MHz

Tx Channel

Bandwidth 20 MHz Power 5.94 dBm

Adjacent Channel

Bandwidth 20 MHz Lower -40.55 dB
 Spacing 20 MHz Upper -38.25 dB

Alternate Channel

Bandwidth 20 MHz Lower -57.78 dB
 Spacing 40 MHz Upper -55.76 dB

802.11g channel power high channel

§15.247(d) – 100KHZ BANDWIDTH OF FREQUENCY BAND EDGE

Applicable Standard

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCI	100035	2006-10-16	2007-10-16

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
Note: For Rdstricted Band
RBW=1MHz
VBW=1 MHz
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

Test Data

Environmental Conditions

Temperature:	25 ° C
Relative Humidity:	50%
ATM Pressure:	100.9 kPa

The testing was performed by Henry Yang on 2007-08-01.

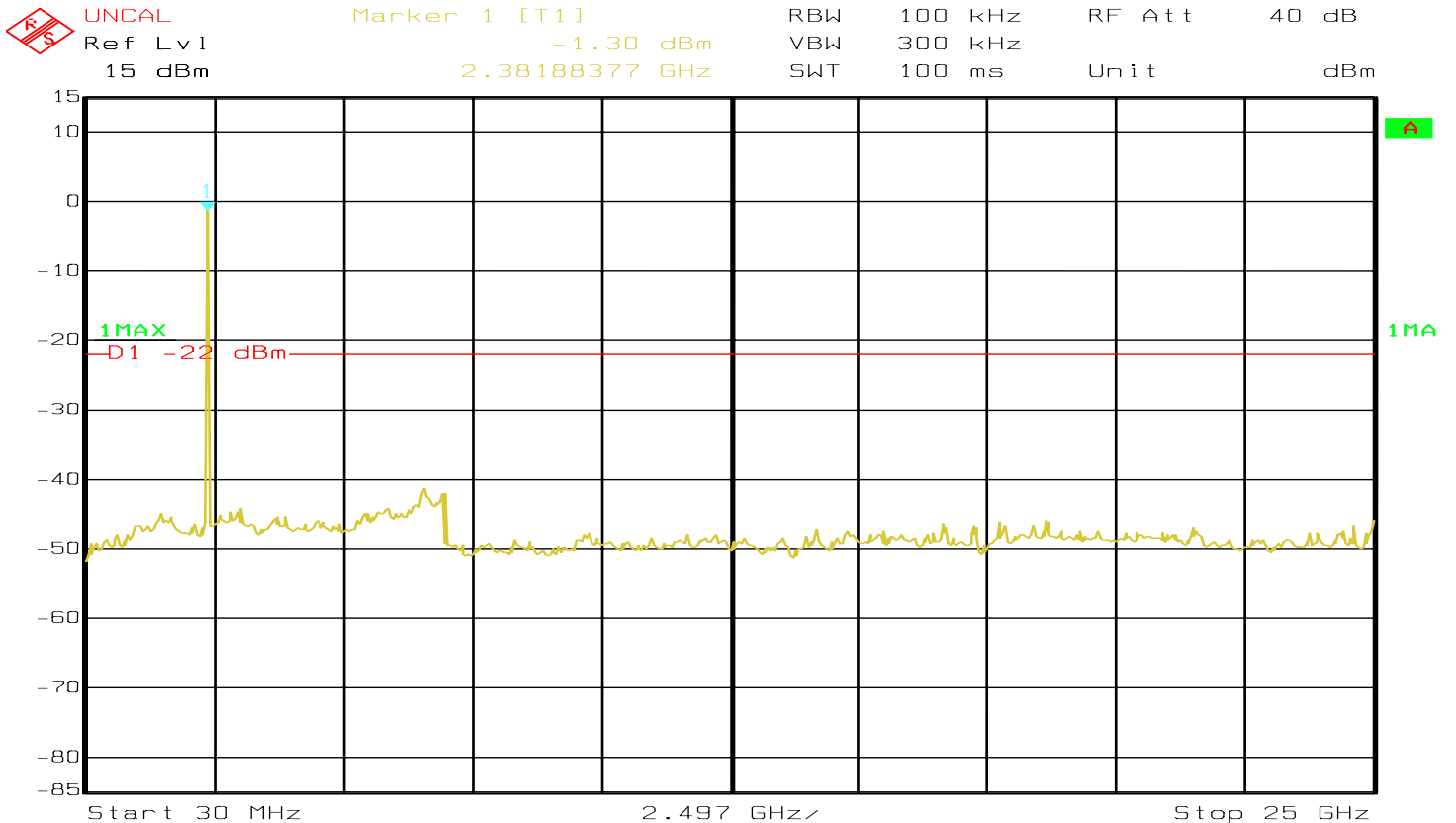
Test Mode: Transmitting

Test Result: Compliant.

Please refer to the following plots.

802.11b Mode

Low Channel



Date: 01.AUG.2007 20:29:47

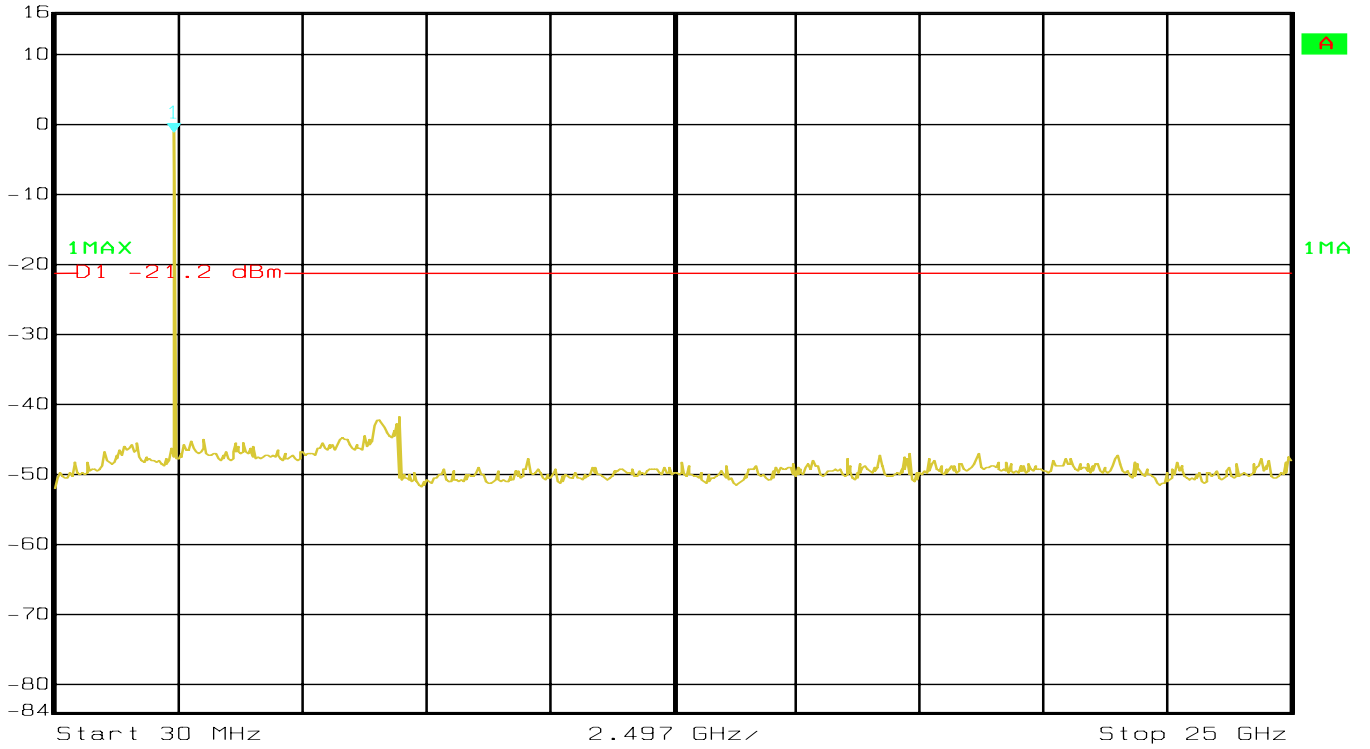
Middle Channel



UNCAL
Ref Lvl
16 dBm

Marker 1 [T1]
-1.17 dBm
2.43192385 GHz

RBW 100 kHz RF Att 40 dB
VBW 300 kHz
SWT 100 ms Unit dBm



Date: 01.AUG.2007 20:38:34

High Channel



UNCAL

Marker 1 [T1]

RBW 100 kHz RF Att 40 dB

Ref Lvl

-3.24 dBm

VBW 300 kHz

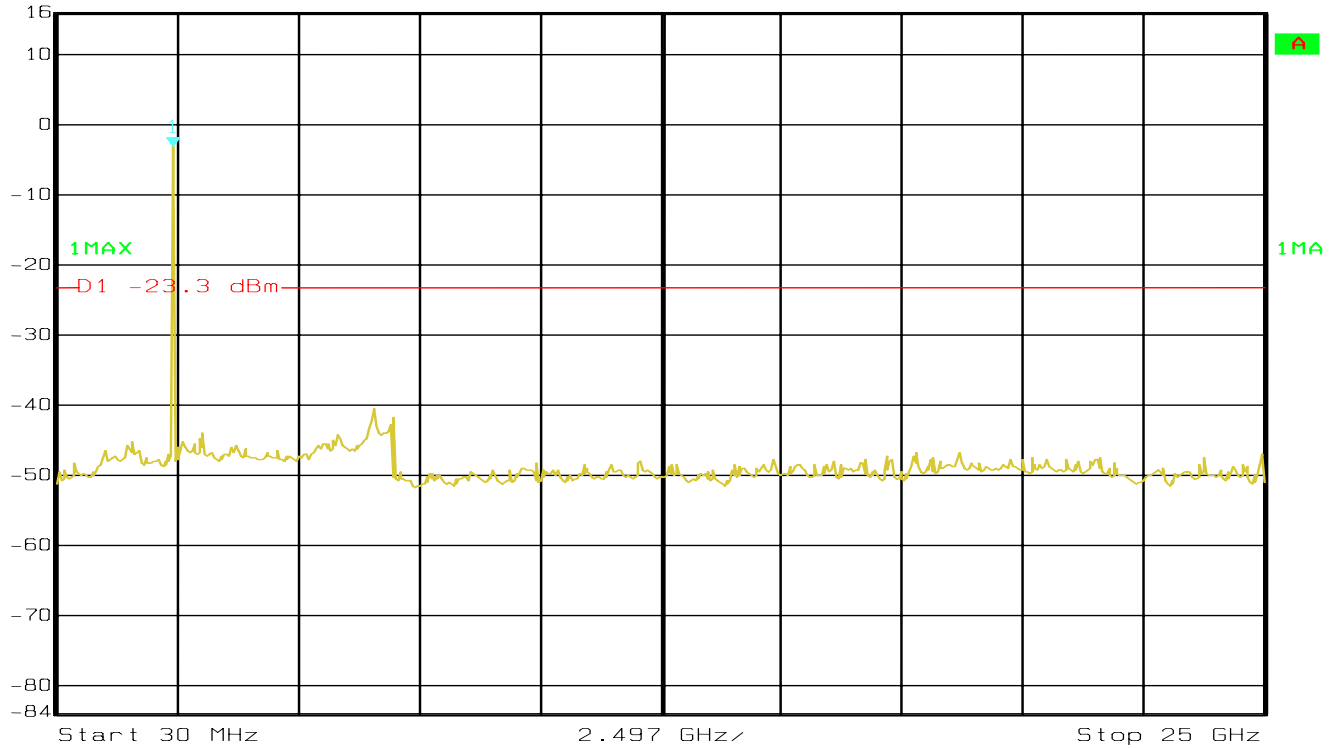
16 dBm

2.43192385 GHz

SWT 100 ms

Unit

dBm



Date: 01.AUG.2007 20:40:45

Band Edge (High Band)

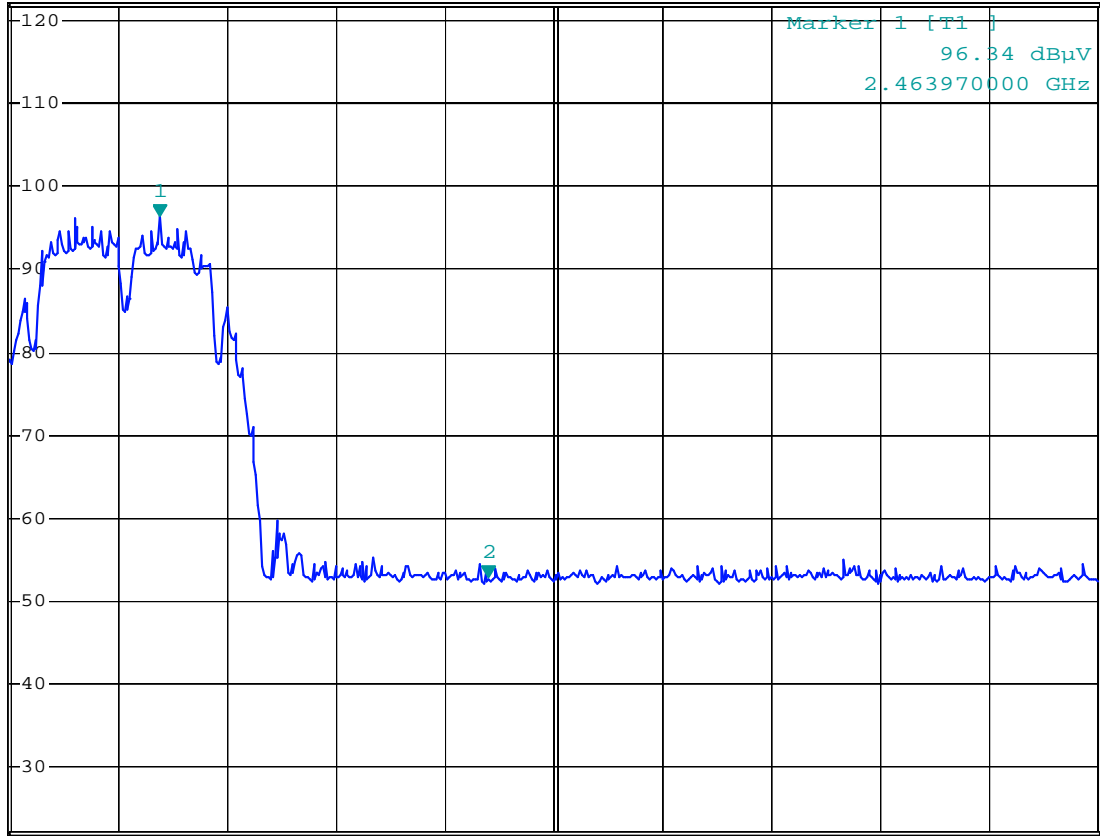


*RBW 100 kHz Marker 2 [T1]
*VBW 300 kHz 52.80 dBμV
*SWT 100 ms 2.483600000 GHz

Ref 122 dBμV

*Att 30 dB

1 PK
VIEW



A

PS

Start 2.455 GHz

6.5 MHz/

Stop 2.52 GHz

bandedge-802.11b high channel

802.11g Mode

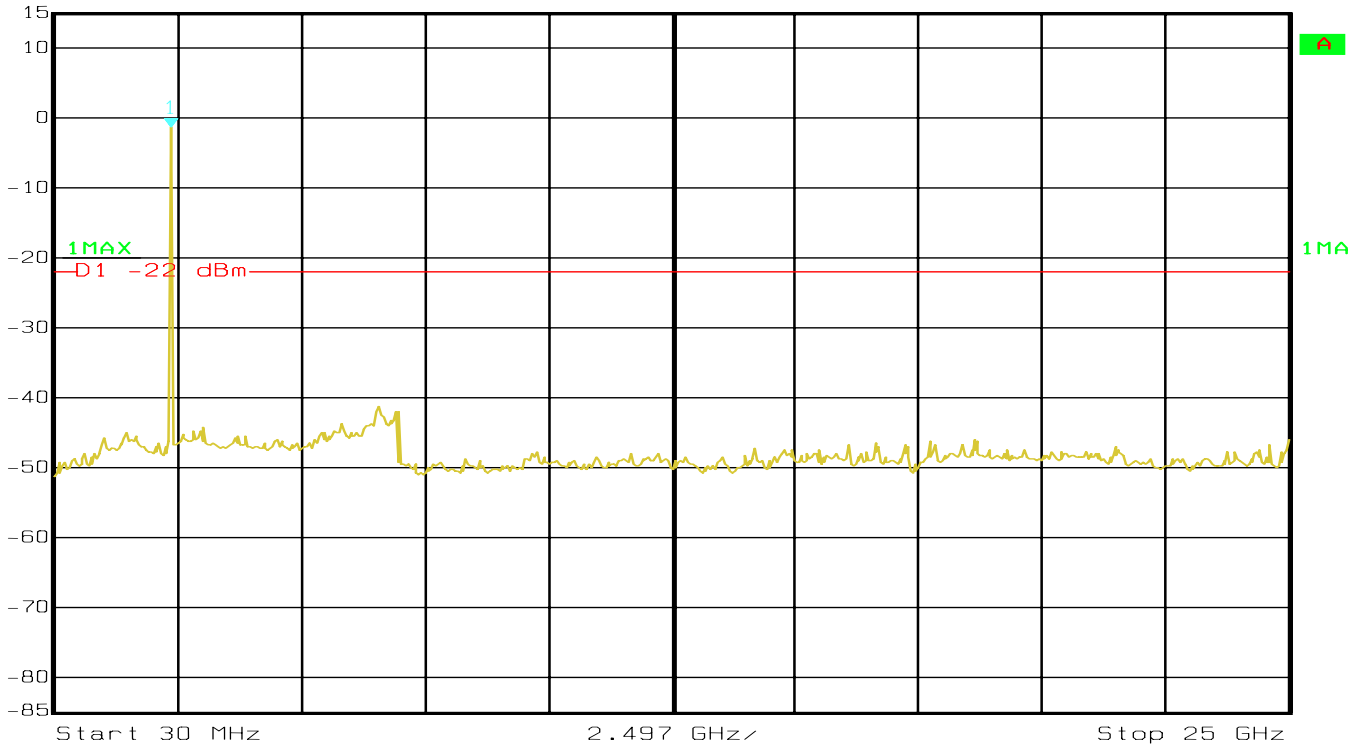
Low Channel



UNCAL
Ref Lvl
15 dBm

Marker 1 [T1]
-1.30 dBm
2.38188377 GHz

RBW 100 kHz RF Att 40 dB
VBW 300 kHz
SWT 100 ms Unit dBm



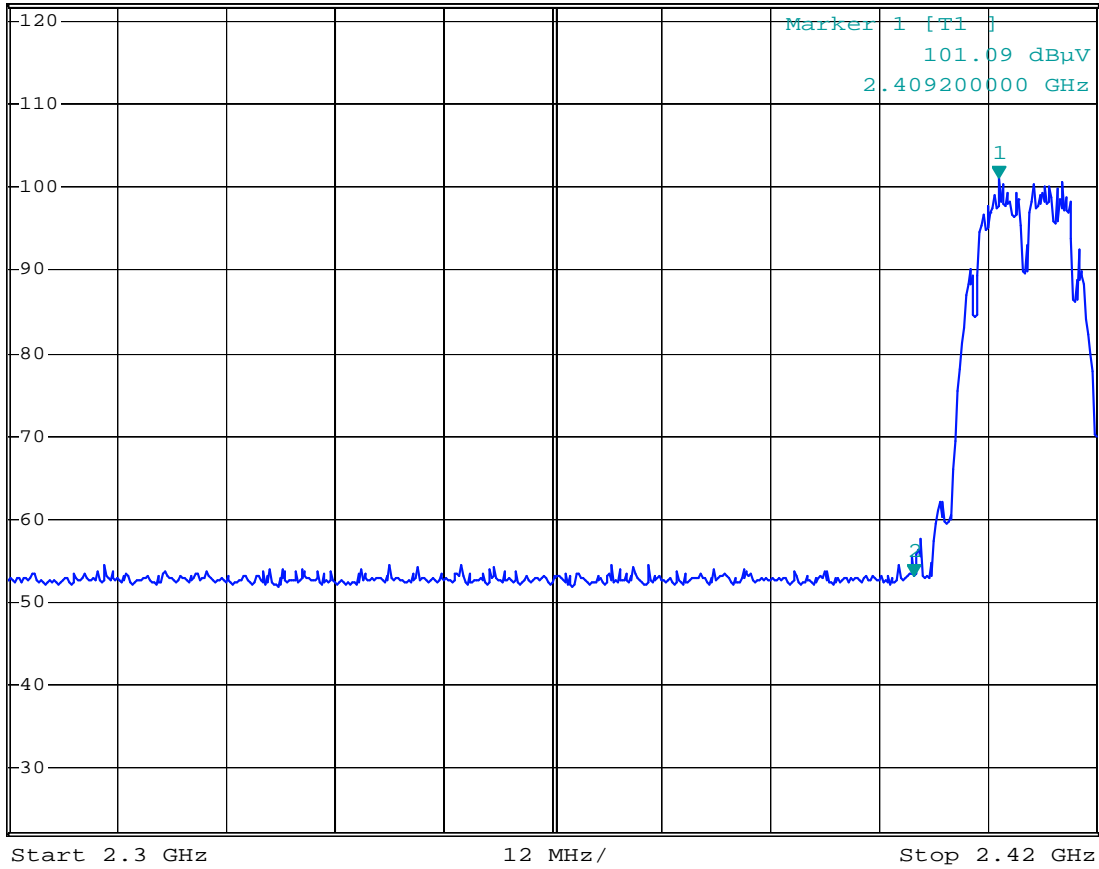
Date: 01.AUG.2007 20:30:47

Band Edge (Low Band)



Ref 122 dBμV *Att 30 dB *RBW 100 kHz Marker 2 [T1] 53.16 dBμV
*VBW 300 kHz 2.399900000 GHz
*SWT 100 ms

1 PK
VIEW



bandege low-802.11g

Middle Channel

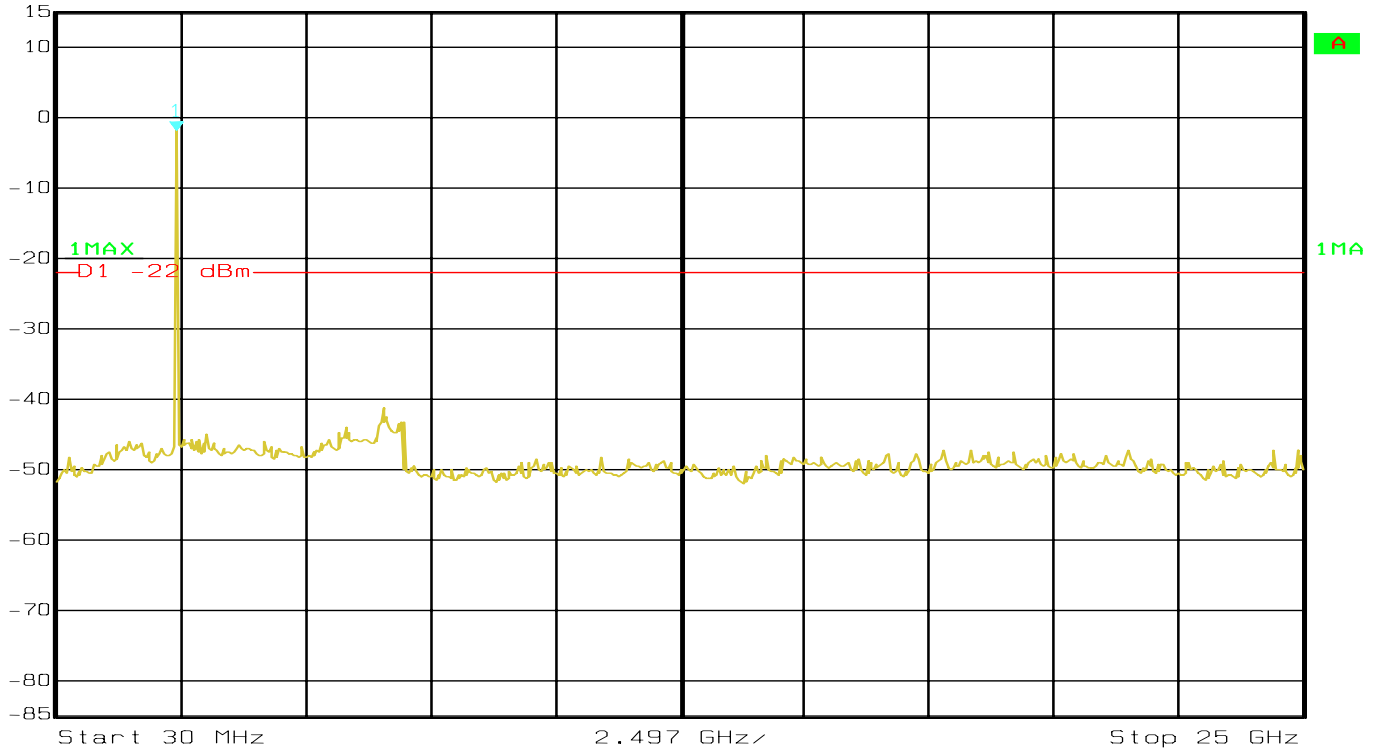


UNCAL

Ref Lvl
15 dBm

Marker 1 [T1]
-1.79 dBm
2.43192385 GHz

RBW 100 kHz RF Att 40 dB
VBW 300 kHz
SWT 100 ms Unit dBm



Date: 01.AUG.2007 20:33:58

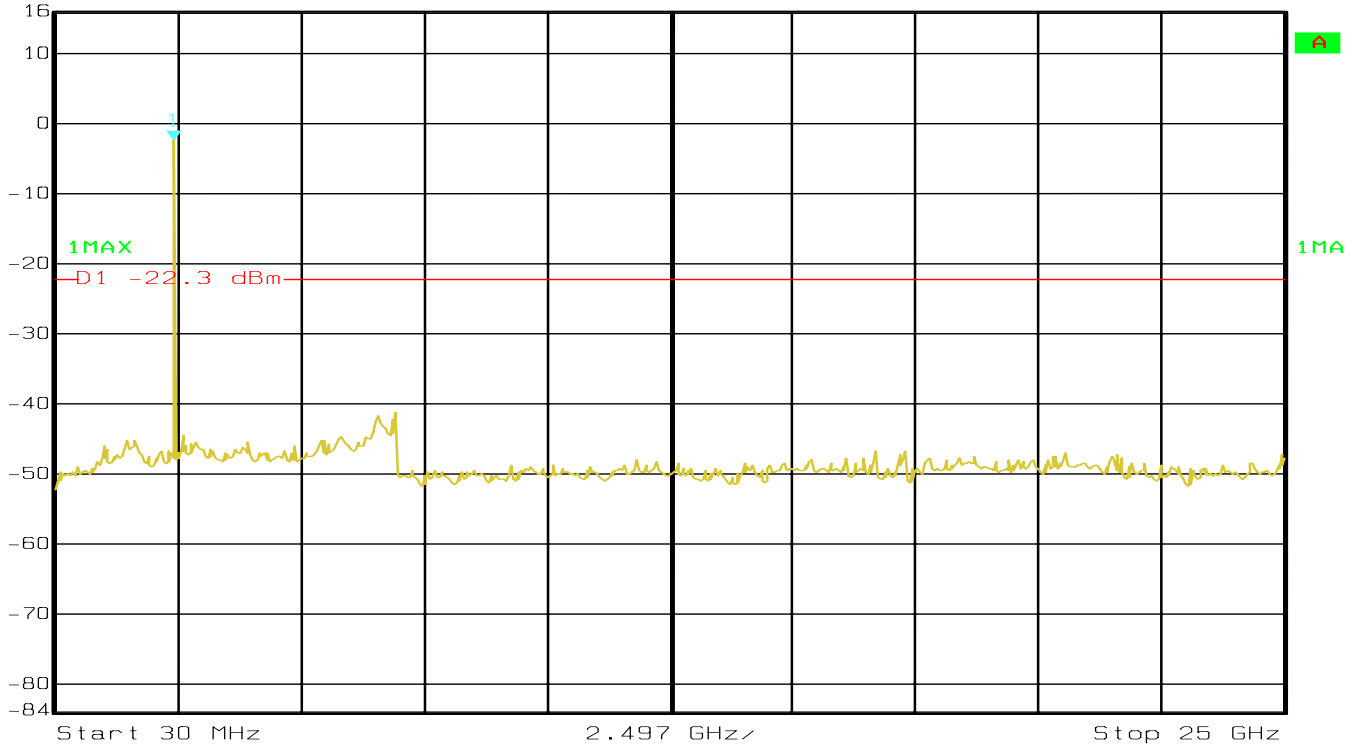
High Channel



UNCAL
Ref Lvl
16 dBm

Marker 1 [T1]
-2.28 dBm
2.43192385 GHz

RBW 100 kHz RF Att 40 dB
VBW 300 kHz
SWT 100 ms Unit dBm



Date: 01.AUG.2007 20:36:19

Restricted Bands

Frequency (MHz)	Emission Frequency (MHz)	Detector Type	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
802.11b Mode					
2412	2358.9	PK	50.40	74	23.60
		AV	48.54	54	5.46
2462	2490.1	PK	50.24	74	23.76
		AV	47.99	54	6.01
802.11g Mode					
2412	2355.5	PK	50.67	74	23.33
		AV	46.69	54	7.31
2462	2496.66	PK	50.35	74	23.65
		AV	47.38	54	6.62

§15.247(e) - POWER SPECTRAL DENSITY

Applicable Standard

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
WUHUAN	Temperature & Humidity Chamber	HTP205	20021115	2006-12-28	2007-12-28
Rohde & Schwarz	EMI Test Receiver	ESCI	100035	2006-09-29	2007-09-29

* **Statement of Traceability:** Bay Area Compliance Lab Corp. (ShenZhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT was set without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Adjust the center frequency of SA on any frequency be measured and set SA to 1.5MHz span mode. And then, set RBW and VBW of spectrum analyzer to proper value. (DTS)
4. Repeat above procedures until all frequencies measured were complete.

Test Data**Environmental Conditions**

Temperature:	25 ° C
Relative Humidity:	50%
ATM Pressure:	100.9 kPa

The testing was performed by Henry Yang on 2007-07-19, 2007-07-20.

Test Mode: Transmitting

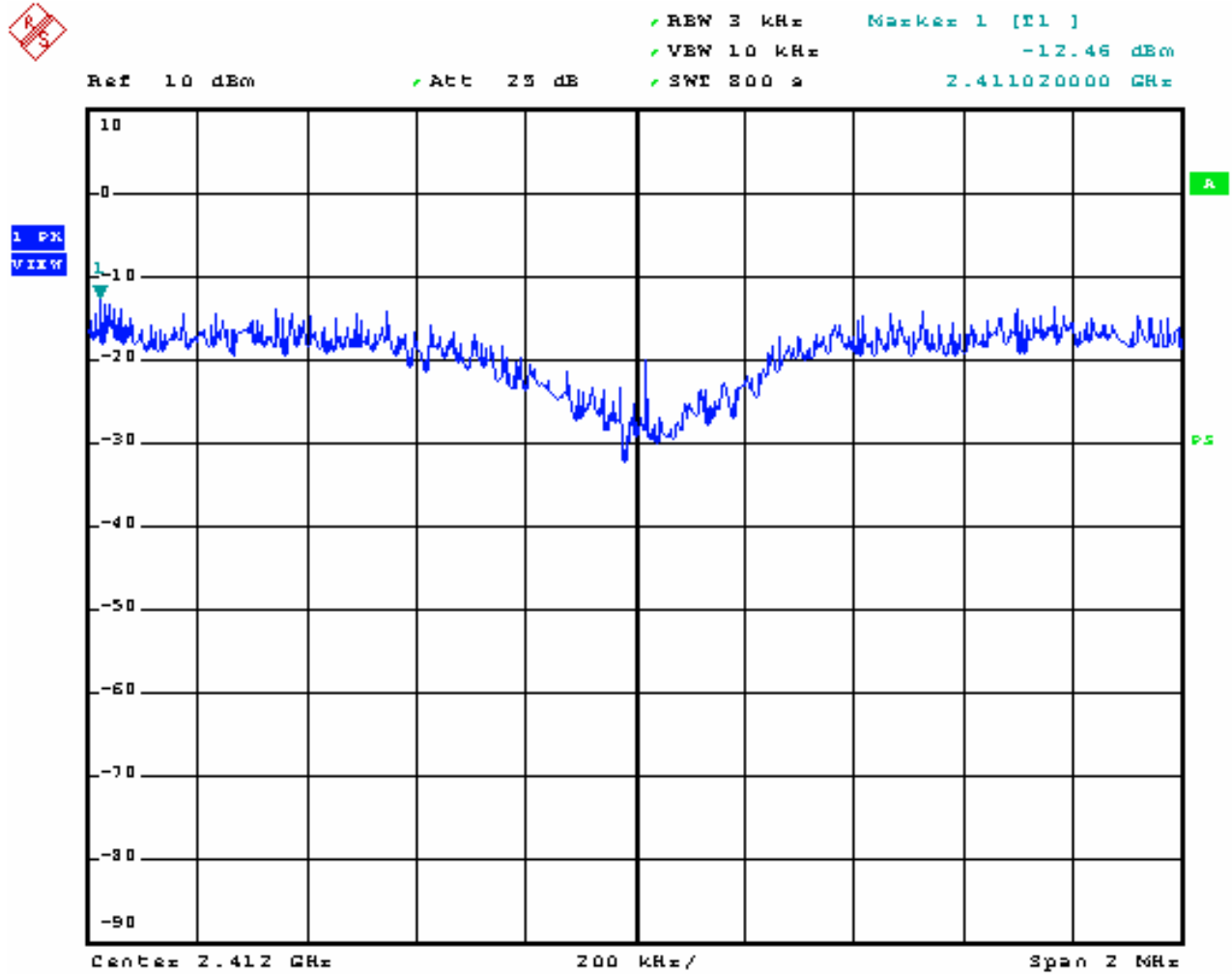
Test Result: Compliant.

Please refer to the following tables and plots.

Channel Frequency (MHz)	Data Rate (Mbps)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
802.11b Mode				
2412	1	-12.46	8	Compliant
2437	1	-13.40	8	Compliant
2462	1	-13.30	8	Compliant
802.11g Mode				
2412	6	-24.20	8	Compliant
2437	6	-24.66	8	Compliant
2462	6	-24.43	8	Compliant

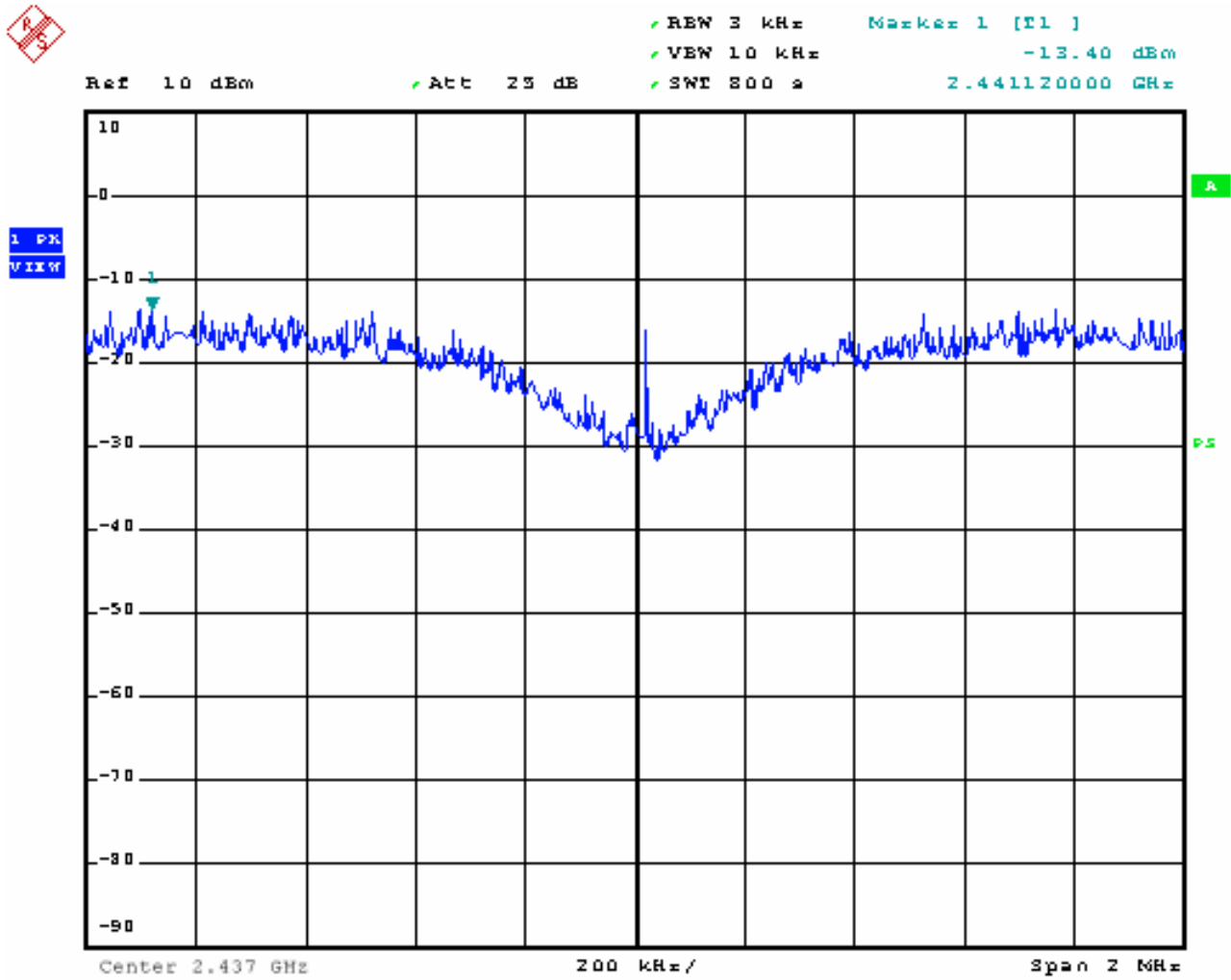
802.11b Mode

Low Channel



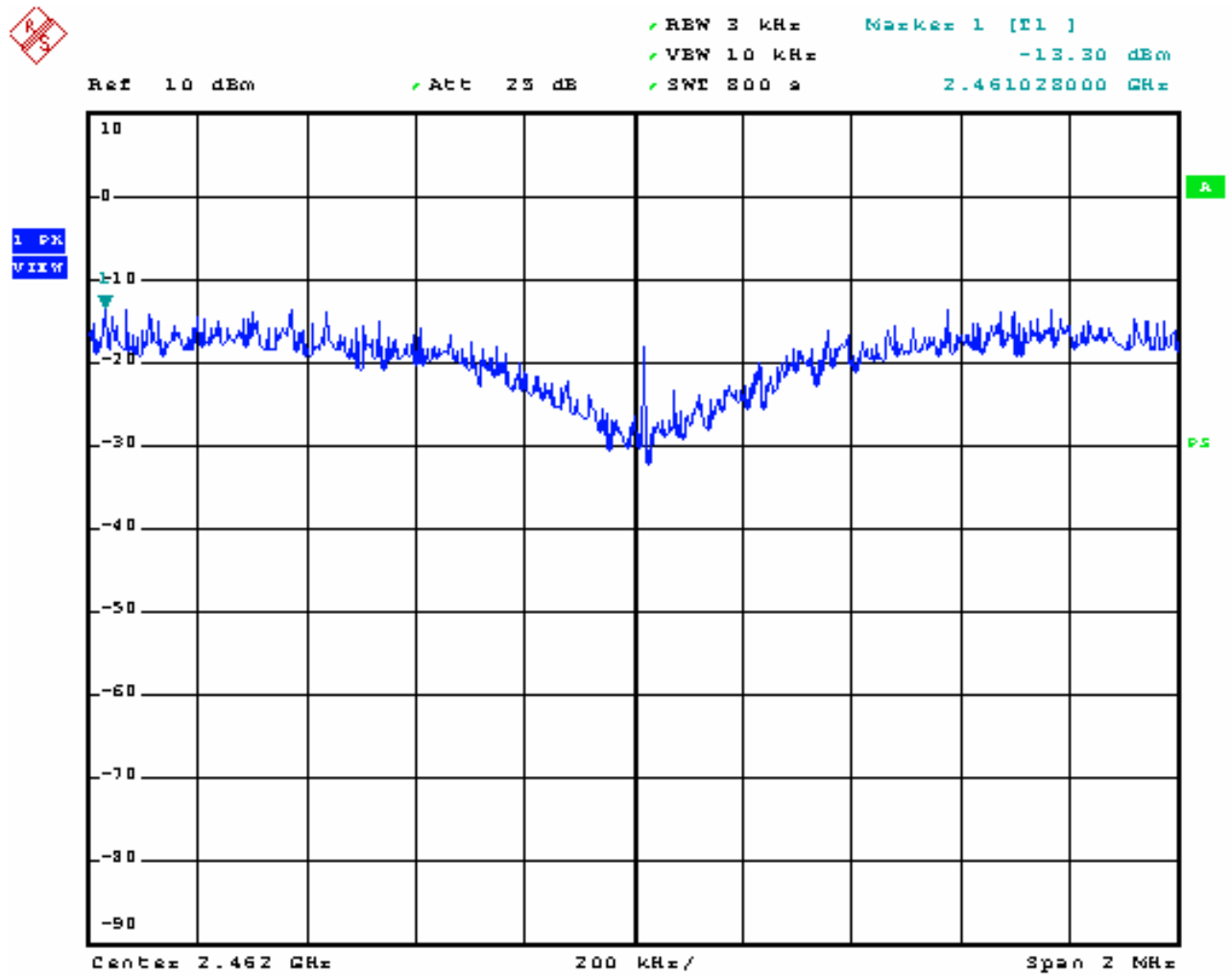
802.11b power density low channel

Middle Channel



802.11b power density mid channel

High Channel



802.11b power density high channel

802.11g Mode

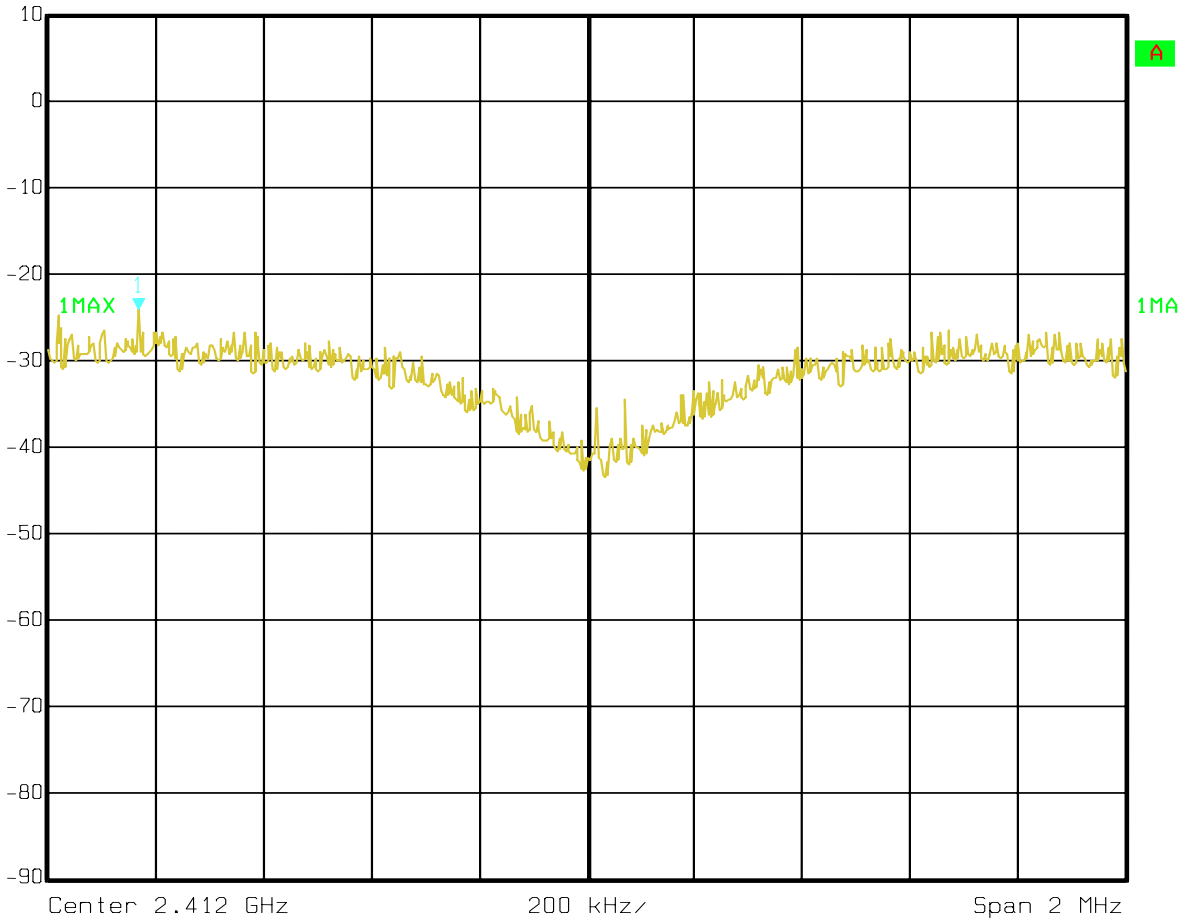
Low Channel



Ref Lvl
10 dBm

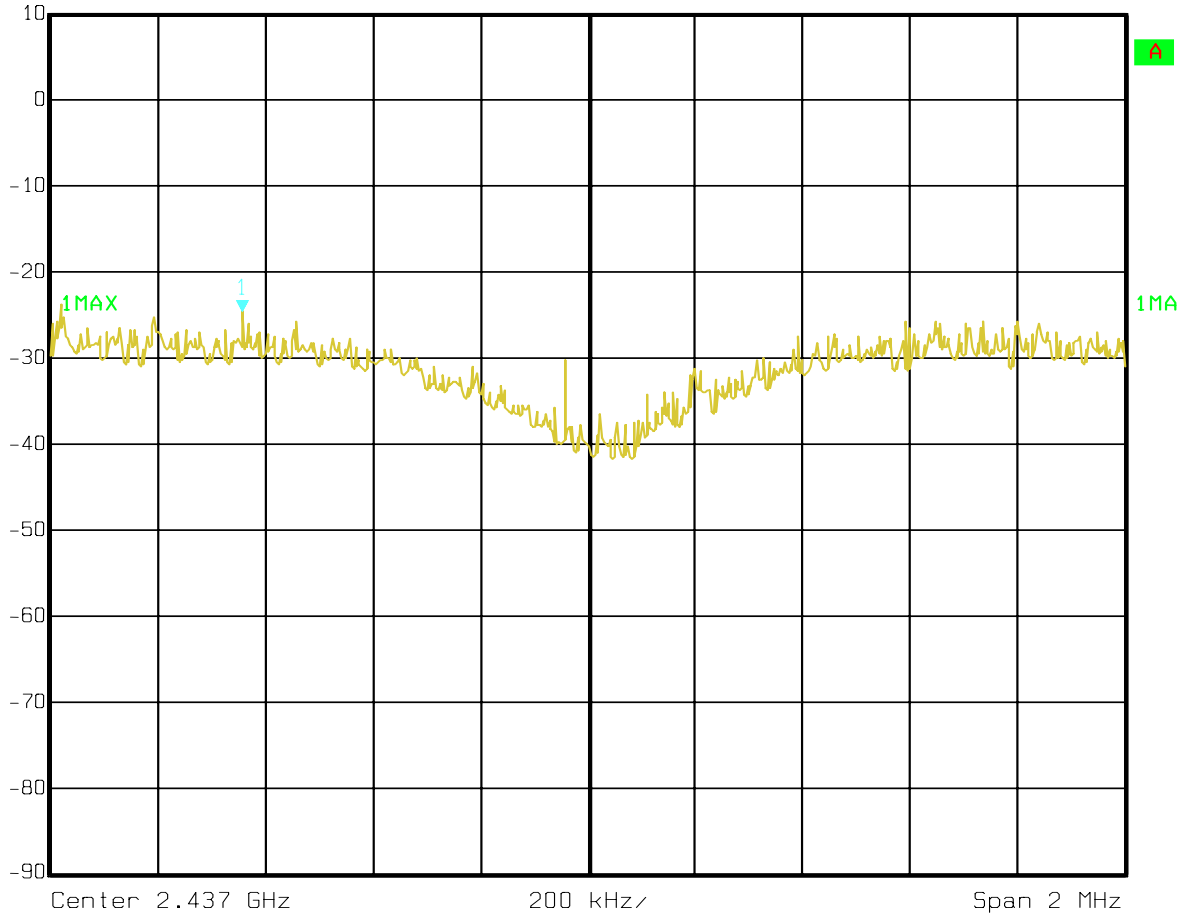
Marker 1 [T1]
-24.20 dBm
2.41116834 GHz

RBW 3 kHz RF Att 20 dB
VBW 10 kHz
SWT 800 s Unit dBm



Middle Channel

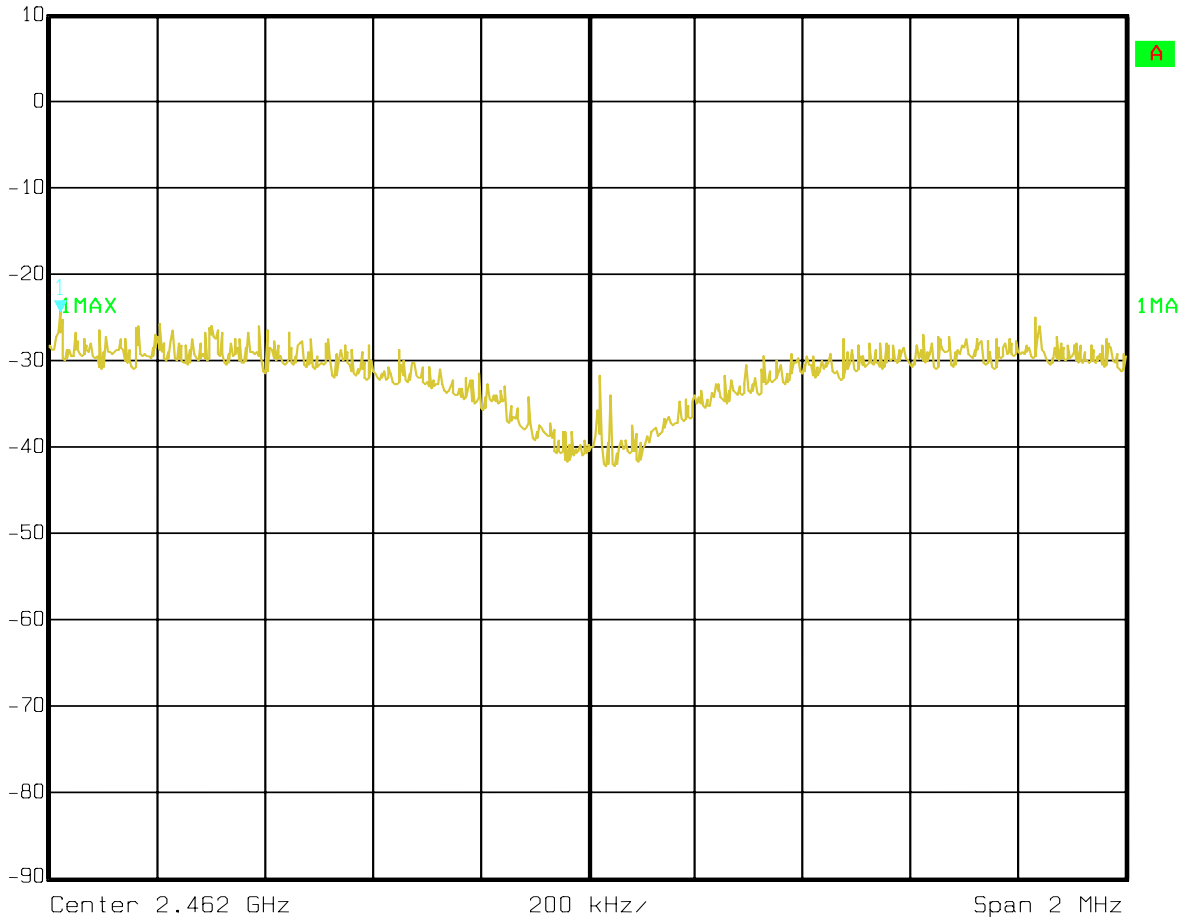
 Ref Lvl 10 dBm Marker 1 [T1] 2.43635671 GHz RBW 3 kHz RF Att 20 dB
-24.66 dBm VBW 10 kHz Unit dBm
SWT 800 s



High Channel



Ref Lvl 10 dBm
Marker 1 [T1] -24.43 dBm
2.46102004 GHz
RBW 3 kHz RF Att 20 dB
VBW 10 kHz
SWT 800 s Unit dBm



***** END OF REPORT *****