

FCC TEST REPORT

according to

FCC Rules and Regulations

Part 15 Subpart C

Applicant	SerComm Corporation
Address	8F, No. 3-1, YuanQu St., NanKang, Taipei 115, Taiwan, R.O.C.
Equipment	Wireless Print Server
Model No.	PS801H GP
FCC ID	P27TV00
Trade Name	SerComm

Laboratory Accreditation



1332

- The test result refers exclusively to the test presented test model / sample.,
- Without written approval of **Exclusive Certification Corp.** the test report shall not be reproduced except in full.
- The EUT is also considered as a kind of computer peripheral, because the connection to computer is necessary for typical use. It has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (DoC). The test report has been issued separately.

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CERTIFICATE OF COMPLIANCE

according to

FCC Rules and Regulations

Part 15 Subpart C

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Equipment	Wireless Print Server
Model No.	PS801H GP
FCC ID	P27TV00

I HEREBY CERTIFY THAT :

The measurements shown in this test report were made in accordance with the procedures given in **ANSI C63.4**. The equipment was ***passed*** the test performed according to **FCC Rules and Regulations Part 15 Subpart C (2003)**.

The test was carried out on Nov. 11, 2005 at ***Exclusive Certification Corp.***

Signature


Anson Chou / Manager

1. Report of Measurements and Examinations

1.1 List of Measurements and Examinations

FCC Rule	Description of Test	Result
15.203	. Antenna Requirement	Pass
15.207	. Conducted Emission	Pass
15.209	. Radiated Emission	Pass
15.247(a)(2)	. 6dB Bandwidth	Pass
15.247(b)	. Maximum Peak Output Power	Pass
15.247(c)	. 100kHz Bandwidth of Frequency Band Edges	Pass
15.247(d)	. Power Spectral Density	Pass
1.1307 1.1310 2.1091 2.1093	. RF Exposure Compliance	Pass

Test engineer:

Jerry

2. Test Configuration of Equipment under Test

2.1 Feature of Equipment under Test

- .Wireless LAN Support. Wireless stations supporting the IEEE 802.11b or IEEE 802.11g standard can interoperate with the 802.11g Wireless Print Server. Both LAN and WLAN users can print to the attached printer or printers.
- .Versatility. The 802.11g Wireless Print Server supports up to four protocols: TCP/IP, SMB (Service Message Block), AppleTalk (Ether Talk), and NetBEUI. It features an Ethernet interface port and operating system support includes Unix, NetWare (NDPS LPR printing), and Microsoft Windows.
- .Easy Installation. The 802.11g Wireless Print Server makes adding printers or plotters to your network simple.
- .Easy Setup. A number of utility programs are supplied to simplify setup. For Windows 95/98/Me/NT/2000/XP users, the BiAdmin program makes it easy to configure the 802.11g Wireless Print Server for a variety of network and server configurations.
- .Web-based Interface. The Web-based interface provides an easy method of configuration in TCP/IP networks, regardless of your client platform.
- .Compact Size. This allows the 802.11g Wireless Print Server to be used even where space is limited.
- .Remote Management Tools. A variety of software tools are provided. In most environments, both the 802.11g Wireless Print Server and attached bi-directional printers can be configured remotely.
- Internet Printing Protocol (IPP) Support. The 802.11g Wireless Print Server can act as an IPP (Internet Printing Protocol) Server, allowing clients, suppliers, colleagues and others to print to your printer from anywhere on the Internet. Windows IPP Client software is also supplied.

2.2 RF Specifications

EUT	Wireless Print Server
MODEL NO.	PS801H GP
POWER SUPPLY	5.0VdC from AC Adapter
MODULATION TYPE	DBPSK,DQPSK,CCK,16QAM,64QAM
TRANSFER RATE	DSSS,OFDM
FREQUENCY RANGE	For FCC : 2412 ~ 2462 MHz For CE : 2412 ~ 2472 MHz For France : 2457 ~ 2472 MHz
NUMBER OF CHANNEL	For FCC : 11 Channel s For CE : 13 Channels For France : 4 Channels
CHANNEL SPACING	5 MHz
OUTPUT POWER	802.11b: 17 +/- 1 dBm 802.11g : 14 +/- 1 dBm
OUTPUT POWER (E.I.R.P)	802.11b: 18.8 +/- 1 dBm 802.11g : 15.8 +/- 1 dBm
ANTENNA TYPE	Dipole antenna with 1.8dBi gain

2.3 Test Mode and Test Software

The following test mode and test software was performed for conduction and radiation test:

- 802.11b (CH LO: 2412MHz) • 802.11b (CH MID: 2437MHz) • 802.11b (CH HI: 2462MHz)
- 802.11g (CH LO: 2412MHz) • 802.11g (CH MID: 2437MHz) • 802.11g (CH HI: 2462MHz)
- An executive programs, "DutApi_AP_GP.exe" Application under WIN XP.

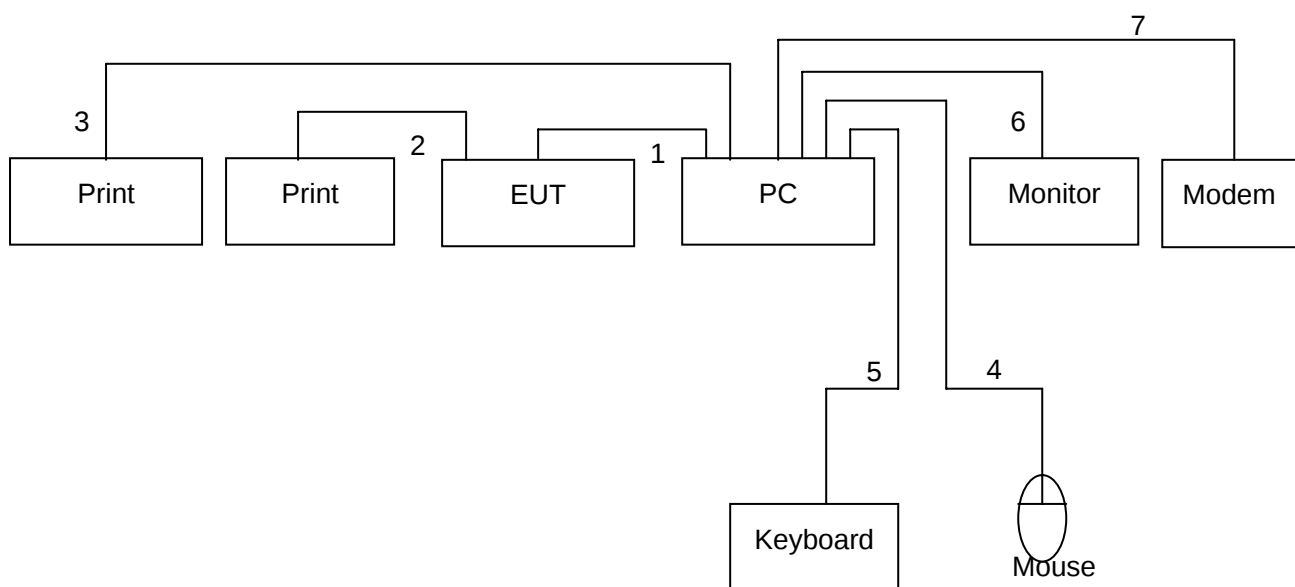
2.4 Description of Test System

Device	Manufacturer	Model No.	Description
PC	IBM	IGV	Power Cable, Unshielding 1.8 m
Monitor	SlimAGE	821A	Power Cable, Adapter Unshielding 1.8 m Data Cable, VGA shielding 1.35 m
Keyboard	IBM	KB-0225	Data Cable, PS2 shielding 1.85 m
Mouse	IBM	MO28VO	Data Cable, USB shielding 1.85 m
Modem	ACEXX	DM-1414	Power Cable, Adapter Unshielding 1.8 m Data Cable, RS232 shielding 1.35 m
Printer	HP	HP948C	Power Cable, Adapter Unshielding 1.8 m Data Cable, USB shielding 1.6 m
Printer	HP	Desk Jet400	Power Cable, Adapter Unshielding 1.8 m Data Cable, PRINT shielding 1.6 m

Use Cable:

Cable	Description
RJ 45*1	Unshielding, 1m

2.5 Connection Diagram of Test System



1. The RJ 45 cable is connected form PC to the EUT.
2. The USB cable is connected form EUT to the Print
3. The I/O cable is connected from PC to the Print.
4. The I/O cable is connected from PC to the Mouse
5. The I/O cable is connected from PC to the Keyboard.
6. The I/O cable is connected form PC to the Monitor
7. The I/O cable is connected from PC to the Modem.

2.6 General Information of Test

Test Site:	Exclusive Certification Corp. 4F-2, No. 28, Lane 78, Xing-Ai Rd. Nei-hu, Taipei City 114 Taiwan R.O.C.
Test Site Location (OATS1-SD):	No.68-1, Shihbachongsi, shihding Township, Taipei City 223, Taiwan, R.O.C.
Test Voltage:	AC 120V/ 60Hz
Test in Compliance with:	ANSI C63.4-2003 FCC Part 15 Subpart C
Frequency Range Investigated:	Conducted: from 150kHz to 30 MHz Radiation: from 30 MHz to 24620MHz
Test Distance:	The test distance of radiated emission from antenna to EUT is 3 M.

2.7 History of this test report

ORIGINAL.

3. Antenna Requirements

3.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

3.2 Antenna Construction and Directional Gain

Antenna type: Integral, Dipole Antenna

Antenna Gain: 1.8 dBi.

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4. Test of Conducted Emission

4.1 Test Limit

Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 KHz on the 115 VAC power and return leads of the EUT according to the methods defined in ANSI C63.4-2003 Section 3.1. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane as shown in section 2.2. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

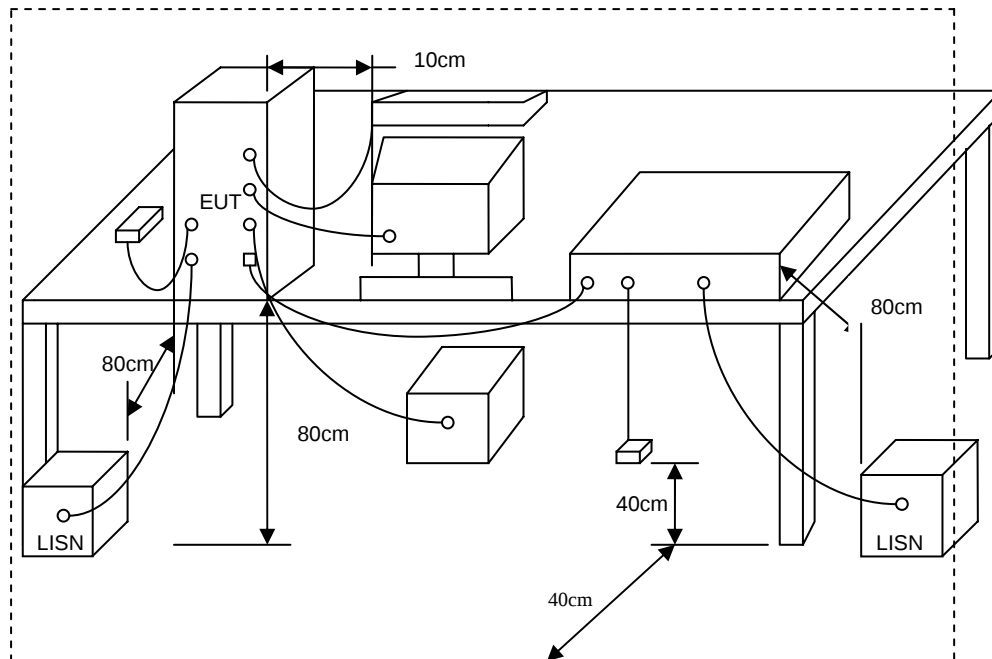
Frequency (MHz)	Quasi Peak (dB μ V)	Average (dB μ V)
0.15 – 0.5	66-56*	56-46*
0.5 – 5.0	56	46
5.0 – 30.0	60	50

*Decreases with the logarithm of the frequency.

4.2 Test Procedures

- The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- Connect EUT to the power mains through a line impedance stabilization network (LISN).
- All the support units are connecting to the other LISN.
- The LISN provides 50 ohm coupling impedance for the measuring instrument.
- The FCC states that a 50 ohm, 50 micro-Henry LISN should be used.
- Both sides of AC line were checked for maximum conducted interference.
- The frequency range from 150 kHz to 30 MHz was searched.
- Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

4.3 Typical Test Setup



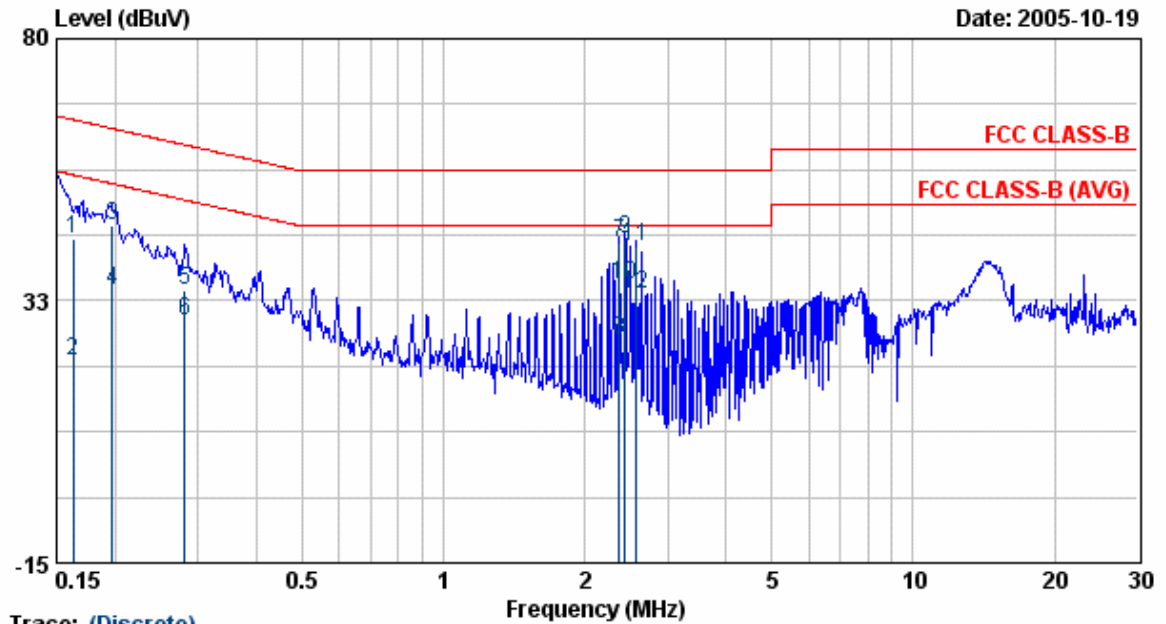
4.4 Measurement equipment

Instrument	Model No.	Manufacturer	Next Cal. Date
Receiver	Schaffner	SCR3501	2006/11/03
LISN	Mess TEC	NNB-2/16Z	2006/04/24
LISN	ROLF HEINE	NNB-2/16Z	2006/05/01

4.5 Test Result and Data

EUT : PS801H GP
 Power : AC 120V
 Test Mode : 802.11g CH1
 Memo : MT10-1050200-A1

Pol/Phase : NEUTRAL
 Temperature : 25 °C
 Humidity : 62 %



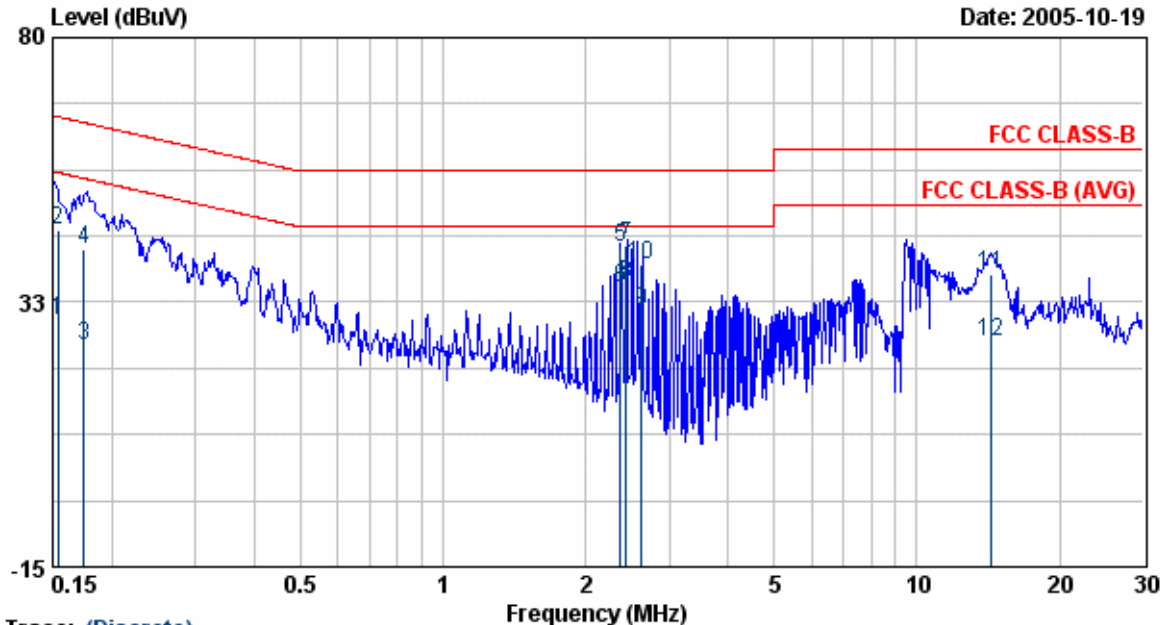
Trace: (Discrete)

Freq	Read Level	Factor	Level	Limit	Over Limit	Remark
MHz	dBuV	dB	dBuV	dBuV	dBuV	
0.16	43.50	0.29	43.79	65.31	-21.53	QP
0.16	21.17	0.29	21.46	55.31	-33.86	AVERAGE
0.20	45.83	0.21	46.04	63.74	-17.70	QP
0.20	34.27	0.21	34.48	53.74	-19.26	AVERAGE
0.28	33.89	0.35	34.24	60.78	-26.54	QP
0.28	28.38	0.35	28.73	50.78	-22.05	AVERAGE
2.36	42.30	0.60	42.90	56.00	-13.10	QP
2.37	24.85	0.60	25.45	46.00	-20.55	AVERAGE
2.43	43.00	0.60	43.60	56.00	-12.40	QP
2.43	34.83	0.60	35.43	46.00	-10.57	AVERAGE
2.56	41.89	0.60	42.49	56.00	-13.51	QP
2.56	33.11	0.60	33.71	46.00	-12.29	AVERAGE

- Remarks:
1. Level = Read Level + Factor
 2. Factor = LISN(ISN) Factor + Cable Loss
 3. All emission below 1GHz at 802.11b/g mode are all the same,so the 802.11g mode chosen as representative in final test.
 4. According to technical experiences,all spurious emission of 802.11g channel 1 was chosen as representative in final test.
 5. The data is worse case.

EUT : PS801H GP
 Power : AC 120V
 Test Mode : 802.11g CH1
 Memo : MT10-1050200-A1

Pol/Phase : LINE
 Temperature : 25 °C
 Humidity : 62 %



Trace: (Discrete)

Freq	Read Level	Factor	Level	Limit	Over Limit	Remark
MHz	dBuV	dB	dBuV	dBuV	dBuV	
0.15	29.00	0.38	29.38	55.80	-26.43	AVERAGE
0.15	45.10	0.38	45.48	65.80	-20.33	QP
0.17	24.45	0.34	24.79	54.73	-29.94	AVERAGE
0.17	41.70	0.34	42.04	64.73	-22.69	QP
2.36	41.69	0.70	42.39	56.00	-13.61	QP
2.36	34.35	0.70	35.05	46.00	-10.95	AVERAGE
2.43	41.92	0.70	42.62	56.00	-13.38	QP
2.43	34.92	0.70	35.62	46.00	-10.38	AVERAGE
2.63	30.11	0.70	30.81	46.00	-15.19	AVERAGE
2.63	38.43	0.70	39.13	56.00	-16.87	QP
14.33	36.48	0.87	37.35	60.00	-22.65	QP
14.33	24.44	0.87	25.31	50.00	-24.69	AVERAGE

- Remarks:
1. Level = Read Level + Factor
 2. Factor = LISN(ISN) Factor + Cable Loss
 3. All emission below 1GHz at 802.11b/g mode are all the same, so the 802.11g mode chosen as representative in final test.
 4. According to technical experiences, all spurious emission of 802.11g channel 1 was chosen as representative in final test.
 5. The data is worse case.

Test engineer: _____

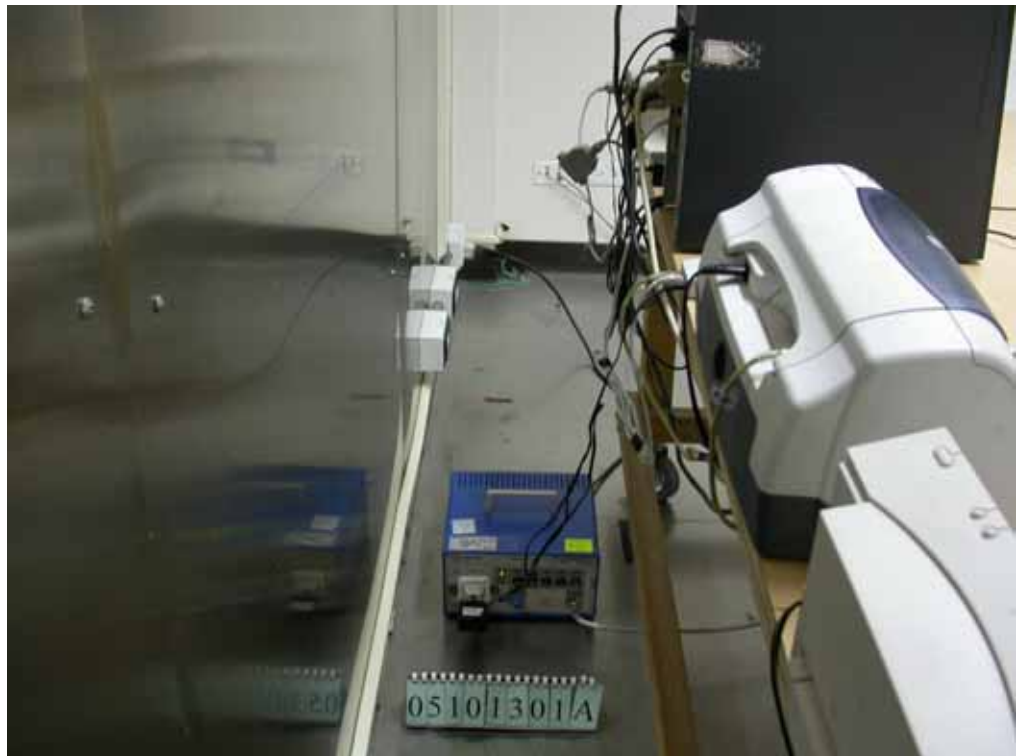
Jerry

4.5.1 Test Photographs

Front View



Rear View



5. Test of Radiated Emission

5.1 Test Limit

Radiated emissions from 30 MHz to 25 GHz were measured according to the methods defines in ANSI C63.4-2003. The EUT was placed, 0.8 meter above the ground plane, as shown in section 5.6.3. The interface cables and equipment positions were varied within limits of reasonable applications to determine the positions producing maximum radiated emissions. For unintentional device, according to § 15.109(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency (MHz)	Distance Meters	Radiated (μ V / M)	Radiated (dB μ V / M)
30-88	3	100	40.0
88-216	3	150	43.5
216-960	3	200	46.0
Above 960	3	500	54.0

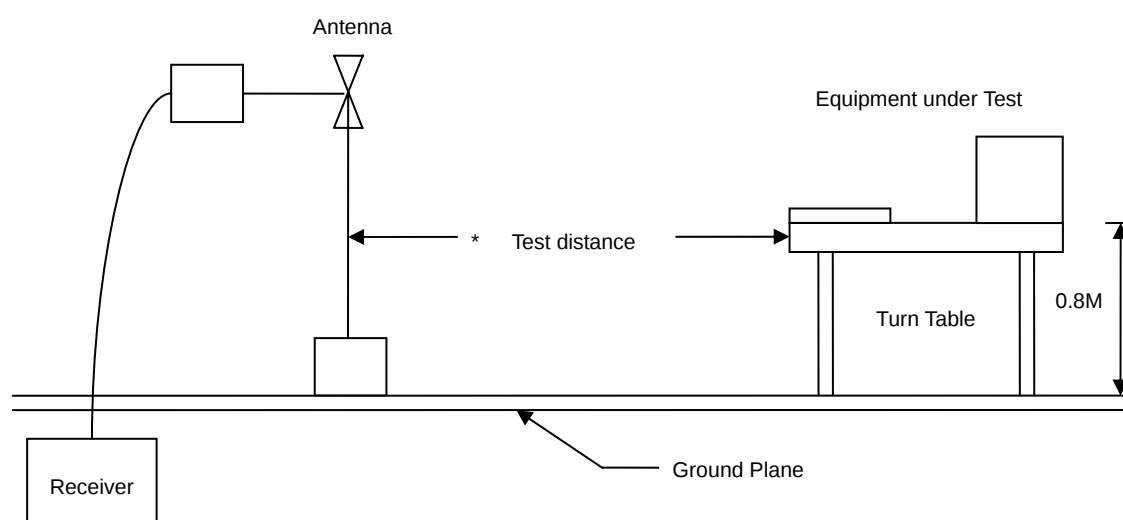
For unintentional device, according to CISPR PUB.22, for Class B digital devices, the general requirement of field strength of radiated emissions from intentional radiators at a distance of 10 meters shall not exceed the above table.

Frequency (MHz)	Distance Meters	Radiated (dB μ V / M)
30-230	10	30
230-1000	10	37

5.2 Test Procedures

1. The EUT was placed on a rotatable table top 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna is a broadband antenna and its height is varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna are set to make the measurement.
5. For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 M to 4 M) and turn table (from 0 degree to 360 degrees) to find the maximum reading.
6. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function and specified bandwidth with Maximum Hold Mode.
7. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method and reported.
8. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

5.3 Typical Test Setup

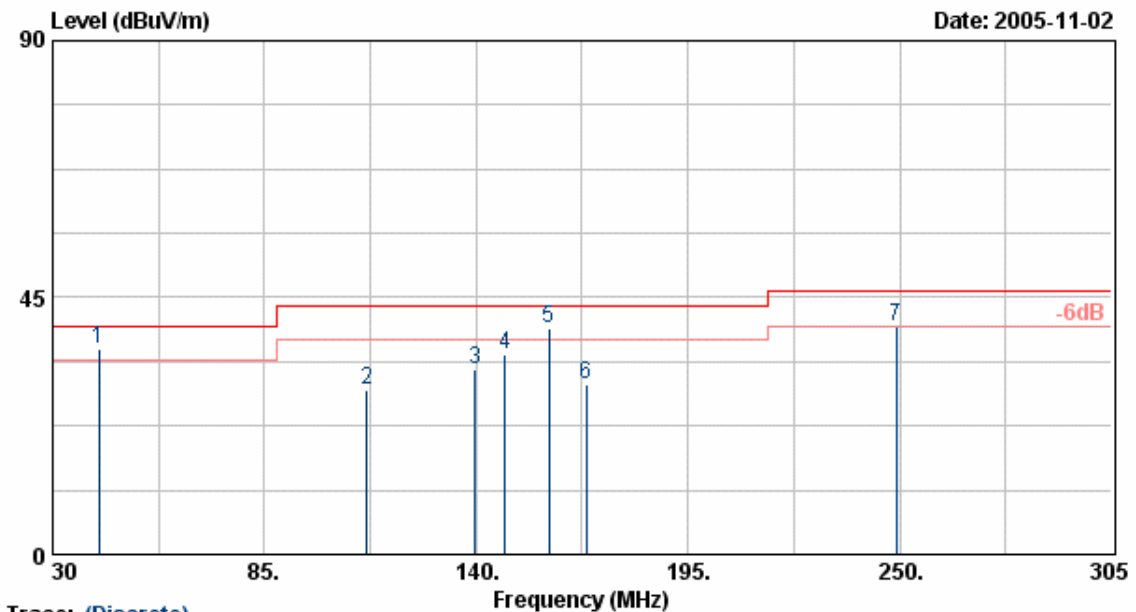


5.4 Measurement equipment

Instrument	Model No.	Manufacturer	Next Cal. Date
Bilog Antenna	CBL6112B	Schaffner	2006/04/11
Signal Generator	8648B	HP	2006/02/09
Amplifier	8447D	Agilent	2006/02/22
EMI Receiver	8546A	HP	2006/04/13
RF Filter Section	85460A	HP	2006/04/13
AC Power Converter	AFC-11005	APC	N/A

5.5 Test Result and Data

EUT	: PS801H GP	Pol/Phase	: HORIZONTAL
Power	: AC 120V	Temperature	: 25 °C
Test Mode	: Transmit/Receive	Humidity	: 70 %
Operation Channel	: 1	Atmospheric Pressure	: 1020 mmHg
Modulation Type	: 802.11b/g		
Rate	: 11/48 Mbps		
Memo	: MT10-1050200		



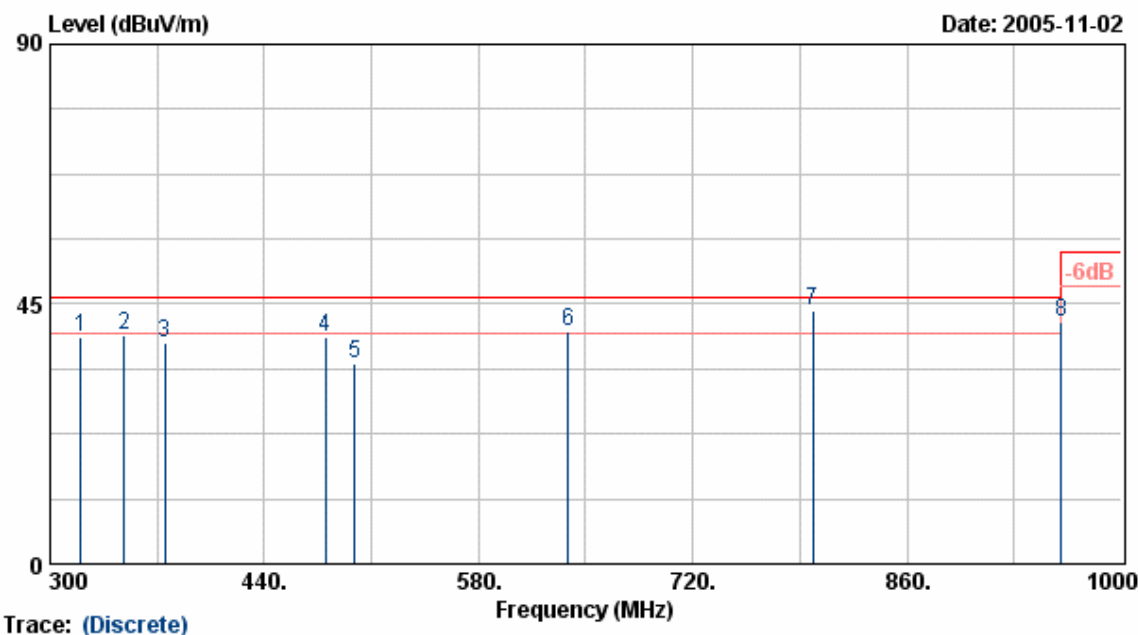
Frequency (MHz)	Meter Reading (dBuV)	Corrected Factor (dBuV/m)	Result (dBuV/m)	Limit (dB)	Margin (dB)	Remark	Table Deg.	Ant High (cm)
42.10	46.47	-10.52	35.95	40.00	-4.05	QP	0	100
111.68	46.08	-17.24	28.84	43.50	-14.66	Peak	0	100
139.73	46.75	-14.49	32.26	43.50	-11.24	Peak	0	100
147.43	49.50	-14.43	35.07	43.50	-8.43	Peak	0	100
158.98	55.18	-15.58	39.60	43.50	-3.90	QP	30	100
168.60	46.23	-16.60	29.63	43.50	-13.87	Peak	30	100
249.18	53.45	-13.47	39.98	46.00	-6.02	Peak	200	100

Notes:

1. Result = Meter Reading + Corrected Factor
2. Corrected Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too below to be measured.

EUT : PS801H GP
 Power : AC 120V
 Test Mode : Transmit/Receive
 Operation Channel : 1
 Modulation Type : 802.11b/g
 Rate : 11/48 Mbps
 Memo : MT10-1050200

Pol/Phase : HORIZONTAL
 Temperature : 25 °C
 Humidity : 70 %
 Atmospheric Pressure : 1020 mmHg



Frequency (MHz)	Meter Reading (dBuV)	Corrected Factor (dBuV/m)	Result (dBuV/m)	Limit (dB)	Margin (dB)	Remark	Table Deg.	Ant High (cm)
320.30	50.06	-10.91	39.15	46.00	-6.85	Peak	80	100
348.30	50.06	-10.47	39.59	46.00	-6.41	Peak	80	100
374.90	47.77	-9.56	38.21	46.00	-7.79	Peak	80	100
479.90	47.13	-7.79	39.34	46.00	-6.66	Peak	80	100
498.80	41.86	-7.05	34.81	46.00	-11.19	Peak	250	100
638.80	44.27	-4.03	40.24	46.00	-5.76	QP	250	100
798.40	45.18	-1.28	43.90	46.00	-2.10	QP	300	100
960.80	39.03	2.78	41.81	54.00	-12.19	Peak	80	100

Notes:

1. Result = Meter Reading + Corrected Factor

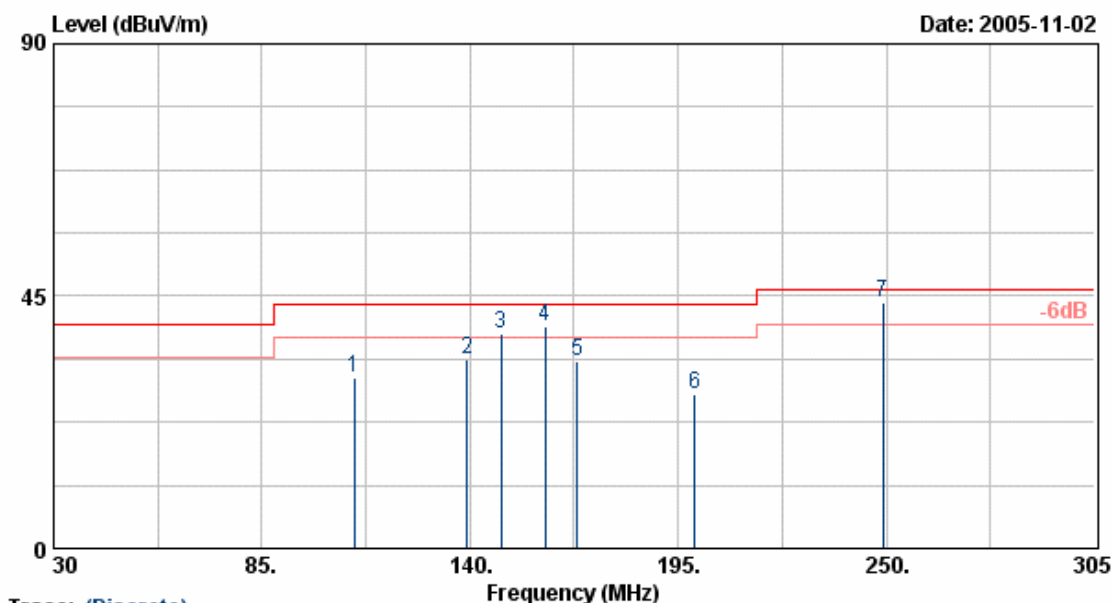
899.90 39.33 1.03 40.36 46.00 -5.64 QP 0 100

Notes:

1. Result = Meter Reading + Corrected Factor
2. Corrected Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too below to be measured.

EUT : PS801H GP
 Power : AC 120V
 Test Mode : Transmit/Receive
 Operation Channel : 1
 Modulation Type : 802.11b/g
 Rate : 11/48 Mbps
 Memo : MT10-1050200

Pol/Phase : VERTICAL
 Temperature : 25 °C
 Humidity : 70 %
 Atmospheric Pressure : 1020 mmHg



Frequency (MHz)	Meter Reading (dBuV)	Corrected Factor (dBuV/m)	Result (dBuV/m)	Limit (dB)	Margin (dB)	Remark	Table Deg.	Ant High (cm)
109.48	47.63	-17.34	30.29	43.50	-13.21	Peak	0	100
139.20	48.37	-14.53	33.84	43.50	-9.66	Peak	0	100
148.10	52.60	-14.43	38.17	43.50	-5.33	QP	100	100
159.98	55.32	-15.70	39.62	43.50	-3.88	QP	100	100
168.33	49.97	-16.57	33.40	43.50	-10.10	Peak	100	100
199.40	44.59	-17.07	27.52	43.50	-15.98	Peak	250	100
249.18	57.23	-13.47	43.76	46.00	-2.24	QP	0	100

Notes:

1. Result = Meter Reading + Corrected Factor
2. Corrected Factor = Antenna Factor + Cable Loss - Amplifier

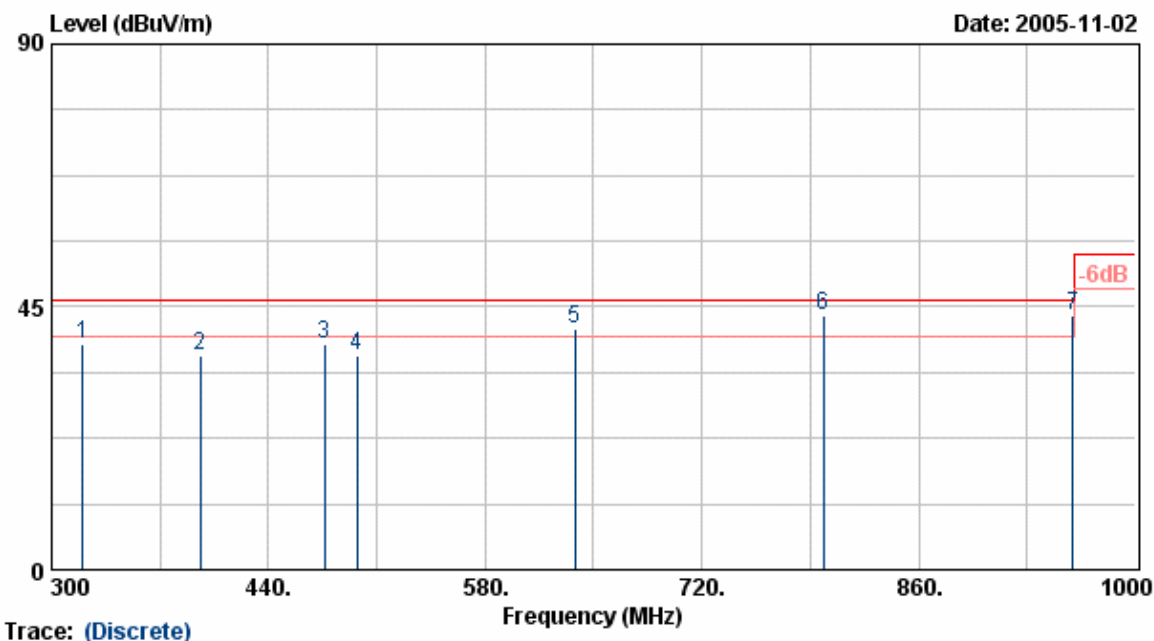
239.98	54.57	-15.34	39.23	46.00	-6.77	Peak	0	100
250.00	51.31	-13.31	38.00	46.00	-8.00	Peak	0	100
300.00	55.27	-11.32	43.95	46.00	-2.05	QP	0	100

Notes:

1. Result = Meter Reading + Corrected Factor
2. Corrected Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too below to be measured.

EUT : PS801H GP
 Power : AC 120V
 Test Mode : Transmit/Receive
 Operation Channel : 1
 Modulation Type : 802.11b/g
 Rate : 11/48 Mbps
 Memo : MT10-1050200

Pol/Phase : VERTICAL
 Temperature : 25 °C
 Humidity : 70 %
 Atmospheric Pressure : 1020 mmHg



Frequency (MHz)	Meter Reading (dBuV)	Corrected Factor (dBuV/m)	Result (dBuV/m)	Limit (dB)	Margin (dB)	Remark	Table Deg.	Ant High (cm)
320.30	49.50	-10.91	38.59	46.00	-7.41	Peak	60	100
395.90	45.55	-9.00	36.55	46.00	-9.45	Peak	60	100
476.40	46.59	-7.91	38.68	46.00	-7.32	Peak	60	100
497.40	43.68	-7.12	36.56	46.00	-9.44	Peak	60	100
638.10	45.23	-4.04	41.19	46.00	-4.81	QP	160	100
798.40	44.86	-1.28	43.58	46.00	-2.42	QP	160	100
959.40	40.59	2.82	43.41	46.00	-2.59	QP	160	100

Notes:

1. Result = Meter Reading + Corrected Factor
2. Corrected Factor = Antenna Factor + Cable Loss - Amplifier

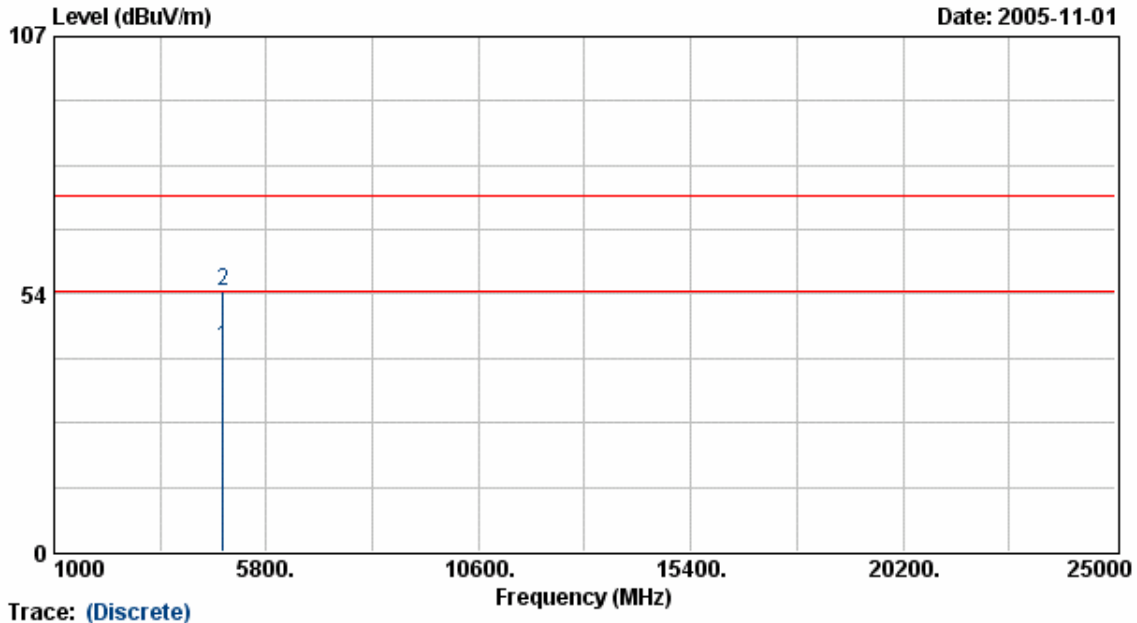
899.90 35.97 1.03 37.00 46.00 -9.00 Peak 0 100

Notes:

1. Result = Meter Reading + Corrected Factor
2. Corrected Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too below to be measured.

EUT : PS801H GP
 Power : AC 120V
 Test Mode : Transmit/Receive
 Operation Channel: 1
 Modulation Type : 802.11b
 Rate : 11 Mbps
 Memo : MT10-1050200

Pol/Phase : HORIZONTAL
 Temperature : 25 °C
 Humidity : 70 %
 Atmospheric Pressure: 1020 mmHg



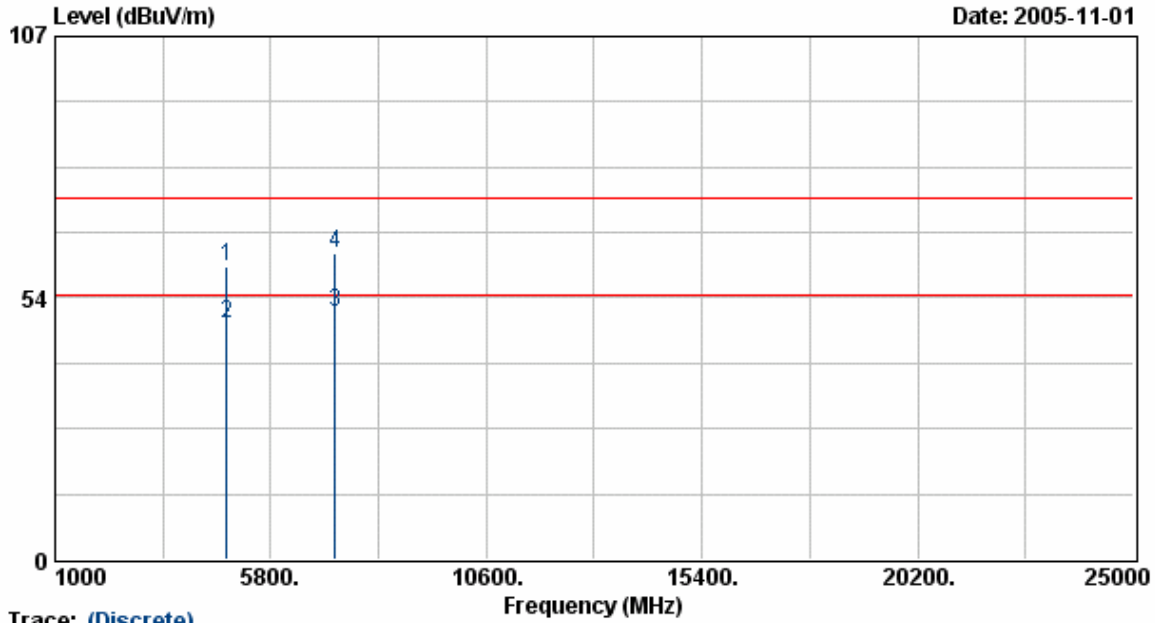
Frequency (MHz)	Meter Reading (dBuV)	Corrected Factor (dBuV/m)	Result (dBuV/m)	Limit (dB)	Margin (dB)	Remark	Table Deg.	Ant High (cm)
4824.97	34.41	8.13	42.54	54.00	-11.46	Average	233	100
4824.97	46.11	8.13	54.24	74.00	-19.76	Peak	233	100

Notes:

1. Result = Meter Reading + Corrected Factor
2. Corrected Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too below to be measured.

EUT : PS801H GP
 Power : AC 120V
 Test Mode : Transmit/Receive
 Operation Channel : 1
 Modulation Type : 802.11b
 Rate : 11 Mbps
 Memo : MT10-1050200

Pol/Phase : VERTICAL
 Temperature : 25 °C
 Humidity : 70 %
 Atmospheric Pressure : 1020 mmHg



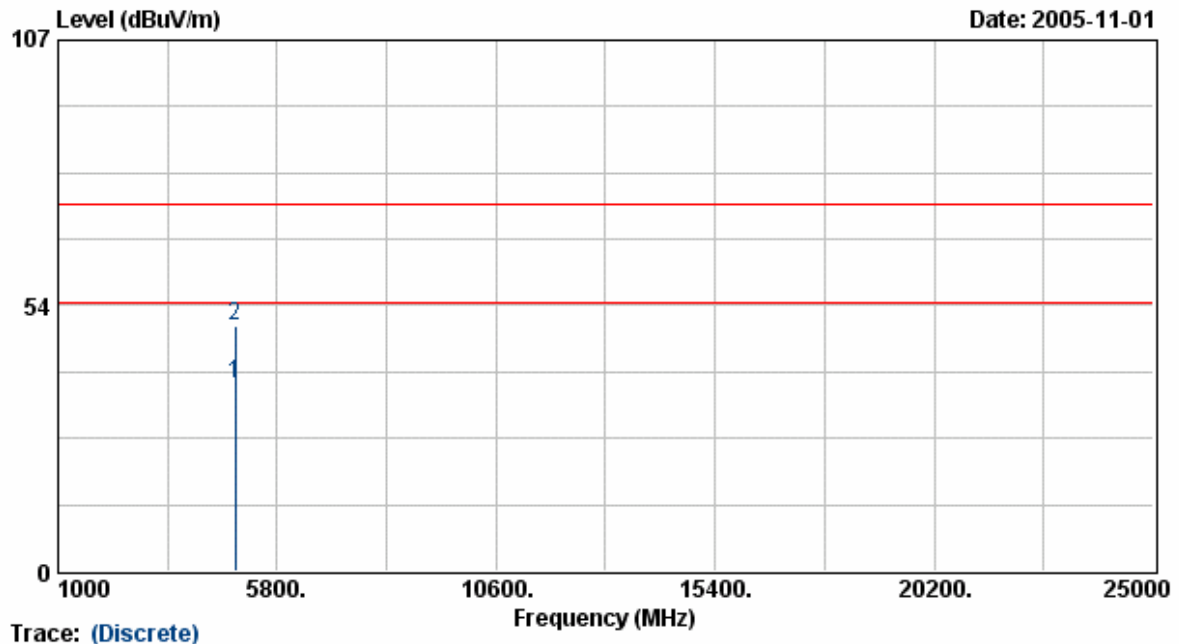
Frequency (MHz)	Meter Reading (dBuV)	Corrected Factor (dBuV/m)	Result (dBuV/m)	Limit (dB)	Margin (dB)	Remark	Table Deg.	Ant High (cm)
4822.04	52.68	7.35	60.03	74.00	-13.97	Peak	239	100
4822.04	40.82	7.35	48.17	54.00	-5.83	Average	239	100
7237.84	39.38	11.06	50.43	54.00	-3.57	Average	239	100
7237.84	51.62	11.06	62.68	74.00	-11.32	Peak	239	100

Notes:

1. Result = Meter Reading + Corrected Factor
2. Corrected Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too below to be measured.

EUT : PS801H GP
 Power : AC 120V
 Test Mode : Transmit/Receive
 Operation Channel : 6
 Modulation Type : 802.11b
 Rate : 11 Mbps
 Memo : MT10-1050200

Pol/Phase : HORIZONTAL
 Temperature : 25 °C
 Humidity : 70 %
 Atmospheric Pressure : 1020 mmHg



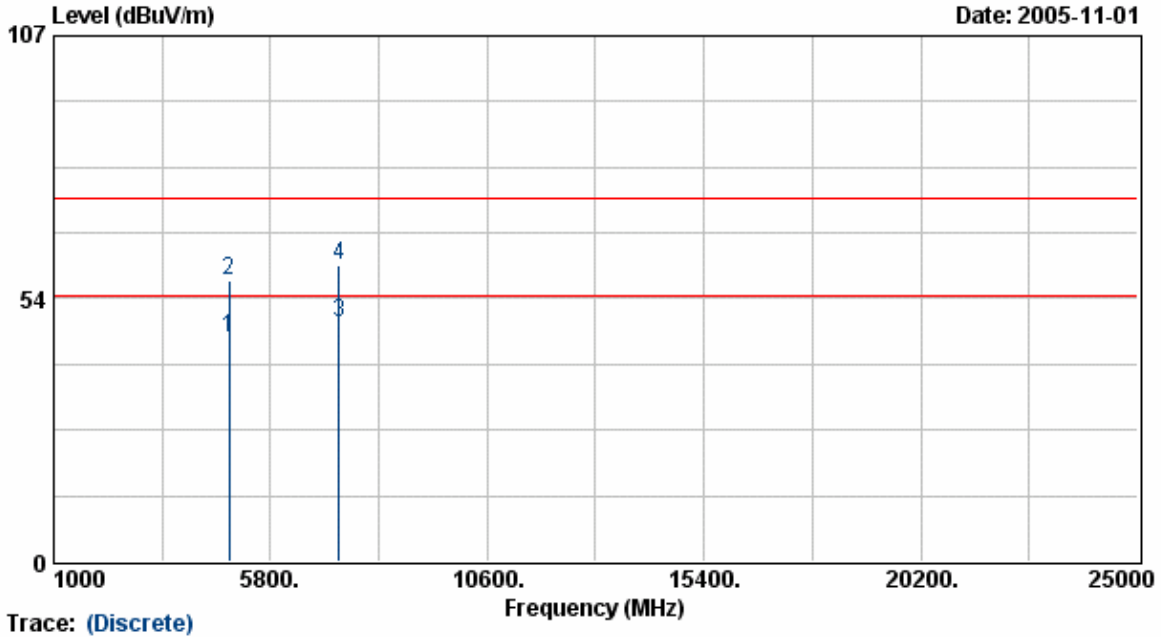
Frequency (MHz)	Meter Reading (dBuV)	Corrected Factor (dBuV/m)	Result (dBuV/m)	Limit (dB)	Margin (dB)	Remark	Table Deg.	Ant High (cm)
4875.49	29.46	8.32	37.78	54.00	-16.22	Average	233	100
4875.49	41.24	8.32	49.56	74.00	-24.44	Peak	233	100

Notes:

1. Result = Meter Reading + Corrected Factor
2. Corrected Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too below to be measured.

EUT : PS801H GP
 Power : AC 120V
 Test Mode : Transmit/Receive
 Operation Channel: 6
 Modulation Type : 802.11b
 Rate : 11 Mbps
 Memo : MT10-1050200

Pol/Phase : VERTICAL
 Temperature : 25 °C
 Humidity : 70 %
 Atmospheric Pressure: 1020 mmHg

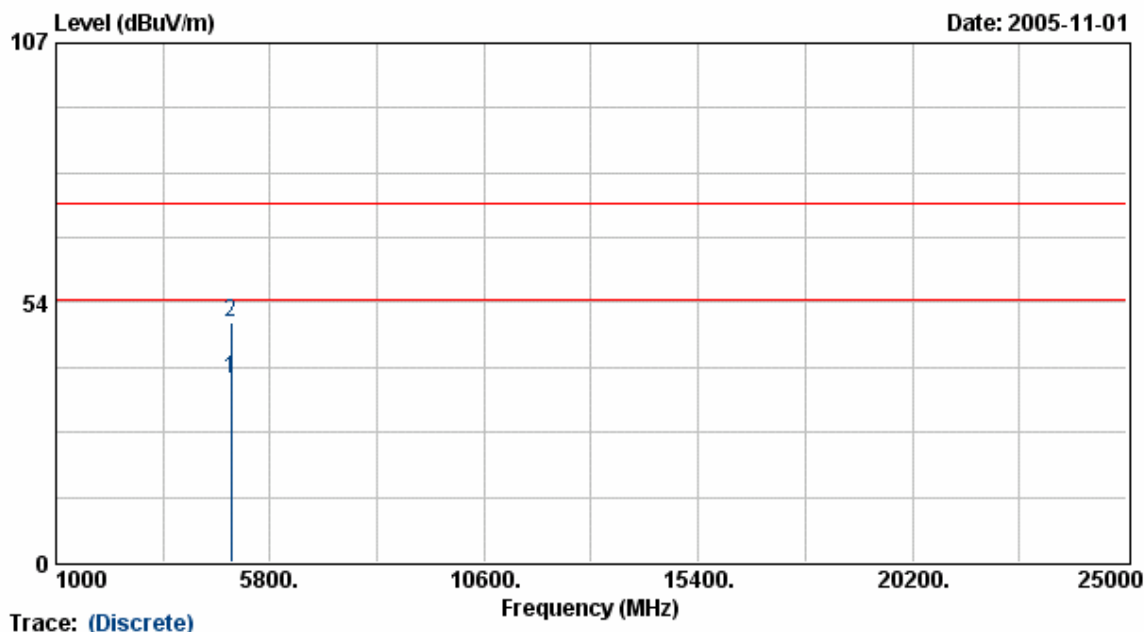


Frequency (MHz)	Meter Reading (dBuV)	Corrected Factor (dBuV/m)	Result (dBuV/m)	Limit (dB)	Margin (dB)	Remark	Table Deg.	Ant High (cm)
4875.54	37.99	7.55	45.54	54.00	-8.46	Average	239	100
4875.54	49.83	7.55	57.38	74.00	-16.62	Peak	239	100
7312.81	37.59	11.14	48.73	54.00	-5.27	Average	239	100
7312.81	49.33	11.14	60.47	74.00	-13.53	Peak	239	100

Notes:

1. Result = Meter Reading + Corrected Factor
2. Corrected Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too below to be measured.

EUT	: PS801H GP	Pol/Phase	: HORIZONTAL
Power	: AC 120V	Temperature	: 25 °C
Test Mode	: Transmit/Receive	Humidity	: 70 %
Operation Channel	: 11	Atmospheric Pressure	: 1020 mmHg
Modulation Type	: 802.11b		
Rate	: 11 Mbps		
Memo	: MT10-1050200		



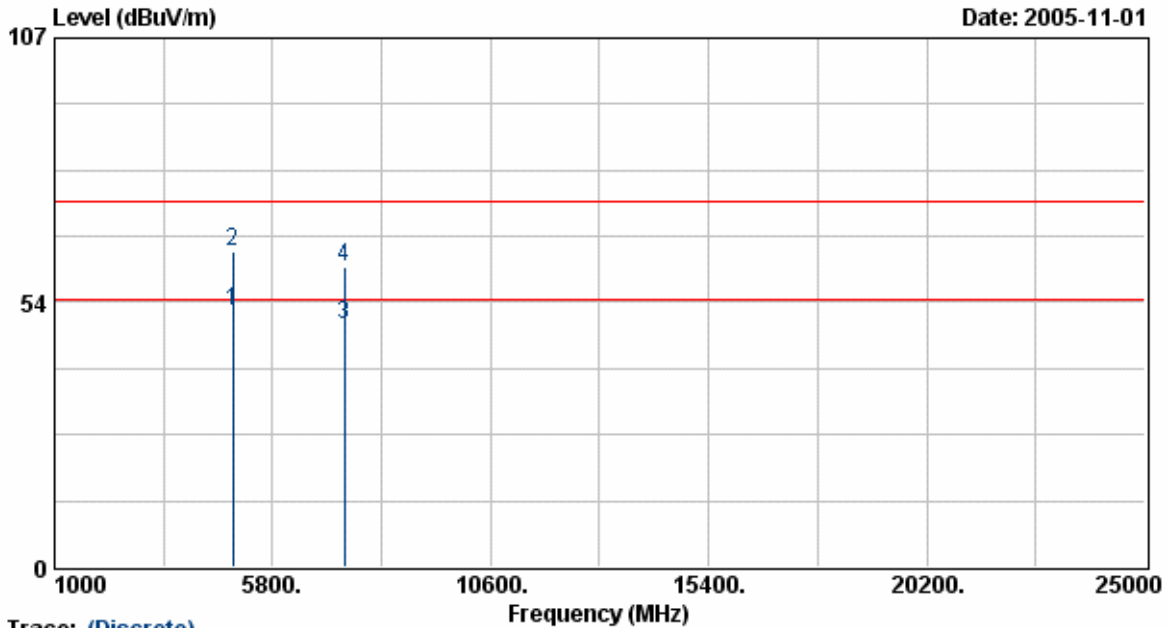
Frequency (MHz)	Meter Reading (dBuV)	Corrected Factor (dBuV/m)	Result (dBuV/m)	Limit (dB)	Margin (dB)	Remark	Table Deg.	Ant High (cm)
4924.65	29.14	8.51	37.65	54.00	-16.35	Average	233	100
4924.65	41.06	8.51	49.57	74.00	-24.43	Peak	233	100

Notes:

1. Result = Meter Reading + Corrected Factor
2. Corrected Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too below to be measured.

EUT : PS801H GP
 Power : AC 120V
 Test Mode : Transmit/Receive
 Operation Channel: 11
 Modulation Type : 802.11b
 Rate : 11 Mbps
 Memo : MT10-1050200

Pol/Phase : VERTICAL
 Temperature : 25 °C
 Humidity : 70 %
 Atmospheric Pressure: 1020 mmHg



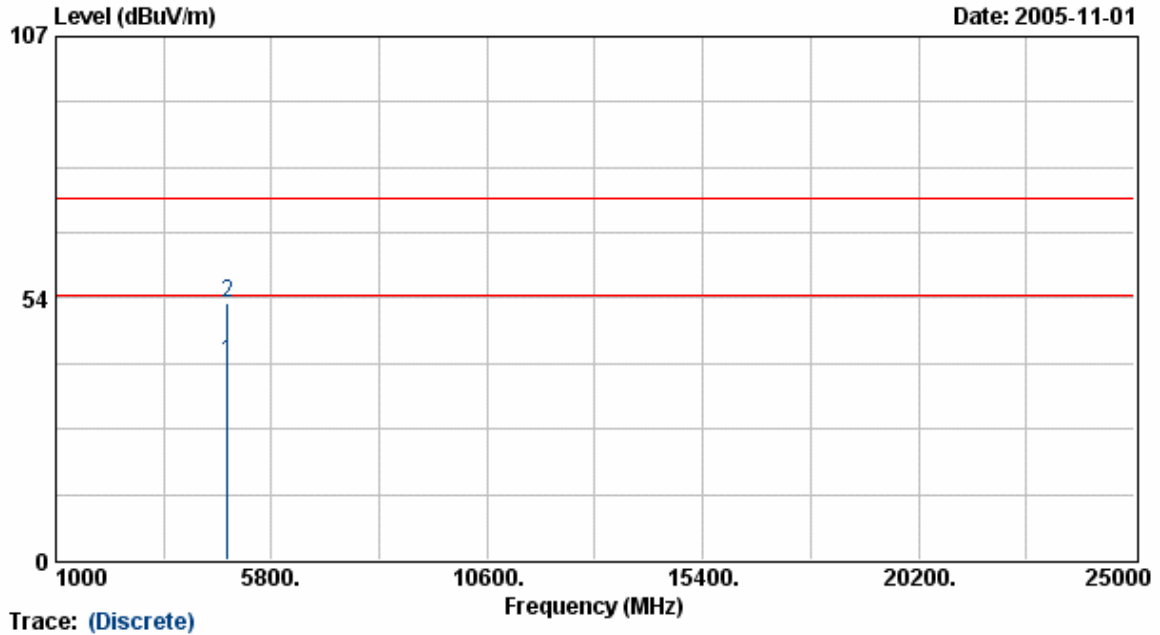
Frequency (MHz)	Meter Reading (dBuV)	Corrected Factor (dBuV/m)	Result (dBuV/m)	Limit (dB)	Margin (dB)	Remark	Table Deg.	Ant High (cm)
4925.86	43.91	7.73	51.64	54.00	-2.36	Average	239	100
4925.86	55.90	7.73	63.63	74.00	-10.37	Peak	239	100
7387.67	37.96	11.22	49.18	54.00	-4.82	Average	239	100
7387.67	49.60	11.22	60.83	74.00	-13.17	Peak	239	100

Notes:

1. Result = Meter Reading + Corrected Factor
2. Corrected Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too below to be measured.

EUT : PS801H GP
 Power : AC 120V
 Test Mode : Transmit/Receive
 Operation Channel: 1
 Modulation Type : 802.11g
 Rate : 48 Mbps
 Memo : MT10-1050200

Pol/Phase : HORIZONTAL
 Temperature : 25 °C
 Humidity : 70 %
 Atmospheric Pressure: 1020 mmHg



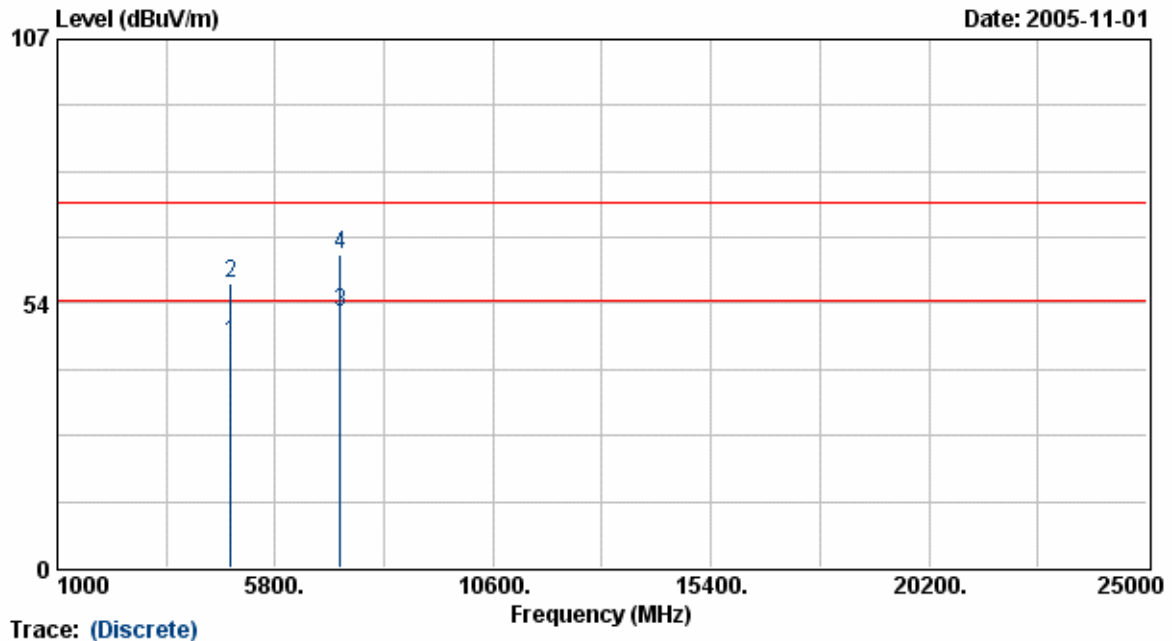
Frequency (MHz)	Meter Reading (dBuV)	Corrected Factor (dBuV/m)	Result (dBuV/m)	Limit (dB)	Margin (dB)	Remark	Table Deg.	Ant High (cm)
4824.89	32.34	8.13	40.47	54.00	-13.53	Average	233	100
4824.89	44.24	8.13	52.37	74.00	-21.63	Peak	233	100

Notes:

1. Result = Meter Reading + Corrected Factor
2. Corrected Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too below to be measured.

EUT : PS801H GP
 Power : AC 120V
 Test Mode : Transmit/Receive
 Operation Channel : 1
 Modulation Type : 802.11g
 Rate : 48 Mbps
 Memo : MT10-1050200

Pol/Phase : VERTICAL
 Temperature : 25 °C
 Humidity : 70 %
 Atmospheric Pressure : 1020 mmHg



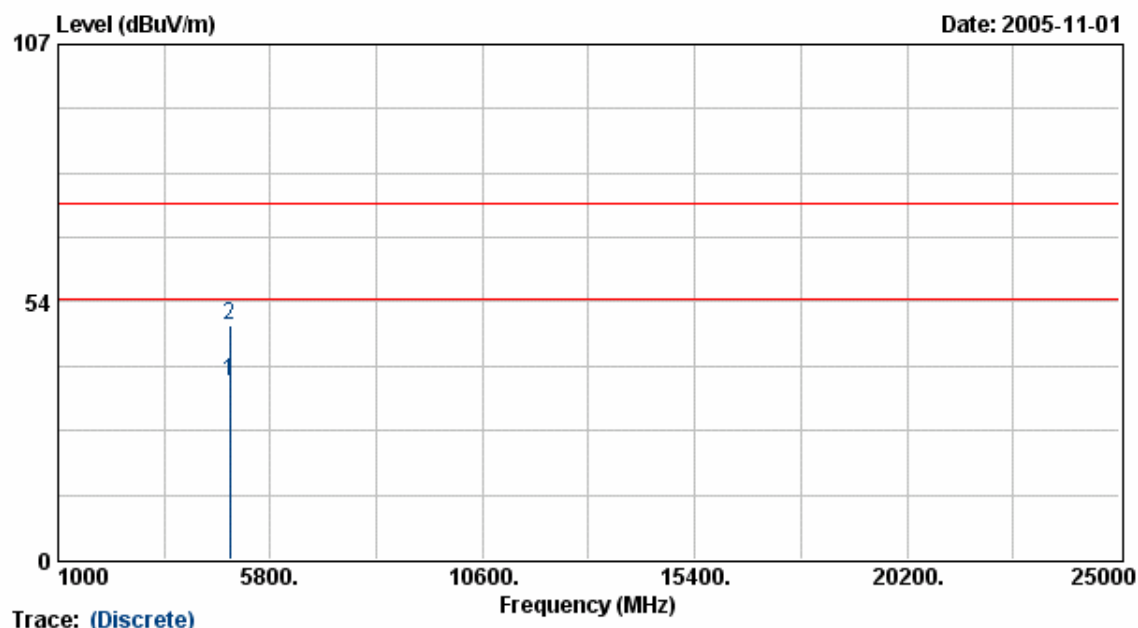
Frequency (MHz)	Meter Reading (dBuV)	Corrected Factor (dBuV/m)	Result (dBuV/m)	Limit (dB)	Margin (dB)	Remark	Table Deg.	Ant High (cm)
4822.65	38.08	7.35	45.43	54.00	-8.57	Average	239	100
4822.65	50.04	7.35	57.39	74.00	-16.61	Peak	239	100
7237.44	40.69	11.06	51.75	54.00	-2.25	Average	239	100
7237.44	52.33	11.06	63.38	74.00	-10.62	Peak	239	100

Notes:

1. Result = Meter Reading + Corrected Factor
2. Corrected Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too below to be measured.

EUT : PS801H GP
 Power : AC 120V
 Test Mode : Transmit/Receive
 Operation Channel: 6
 Modulation Type : 802.11g
 Rate : 48 Mbps
 Memo : MT10-1050200

Pol/Phase : HORIZONTAL
 Temperature : 25 °C
 Humidity : 70 %
 Atmospheric Pressure: 1020 mmHg



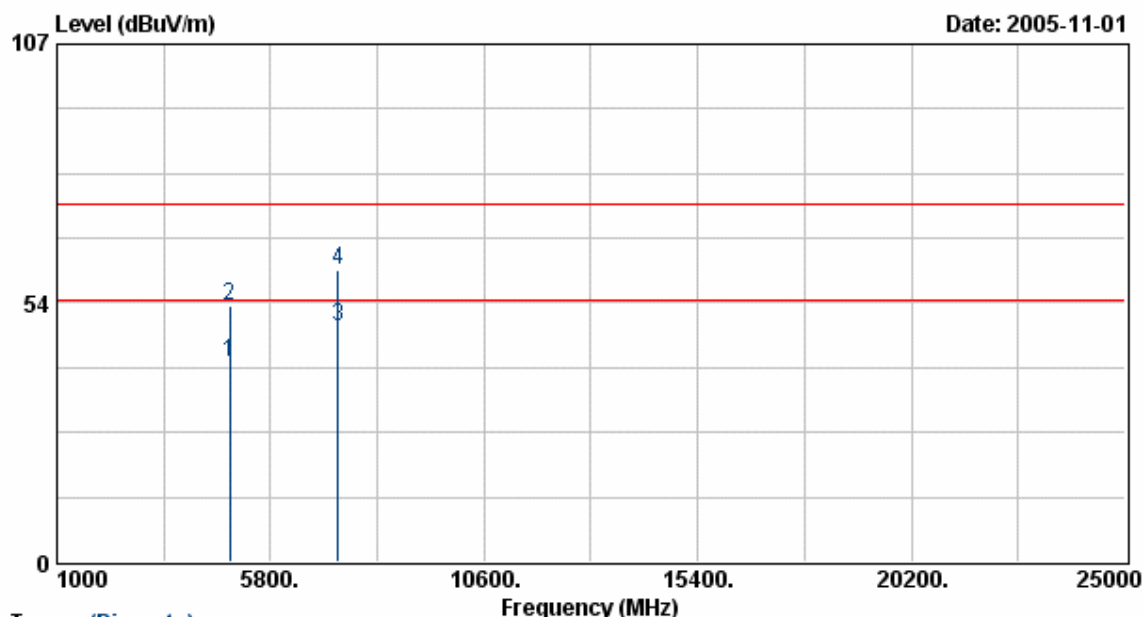
Frequency (MHz)	Meter Reading (dBuV)	Corrected Factor (dBuV/m)	Result (dBuV/m)	Limit (dB)	Margin (dB)	Remark	Table Deg.	Ant High (cm)
4874.90	28.69	8.32	37.01	54.00	-16.99	Average	233	100
4874.90	40.29	8.32	48.61	74.00	-25.39	Peak	233	100

Notes:

1. Result = Meter Reading + Corrected Factor
2. Corrected Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too below to be measured.

EUT : PS801H GP
 Power : AC 120V
 Test Mode : Transmit/Receive
 Operation Channel: 6
 Modulation Type : 802.11g
 Rate : 48 Mbps
 Memo : MT10-1050200

Pol/Phase : VERTICAL
 Temperature : 25 °C
 Humidity : 70 %
 Atmospheric Pressure: 1020 mmHg



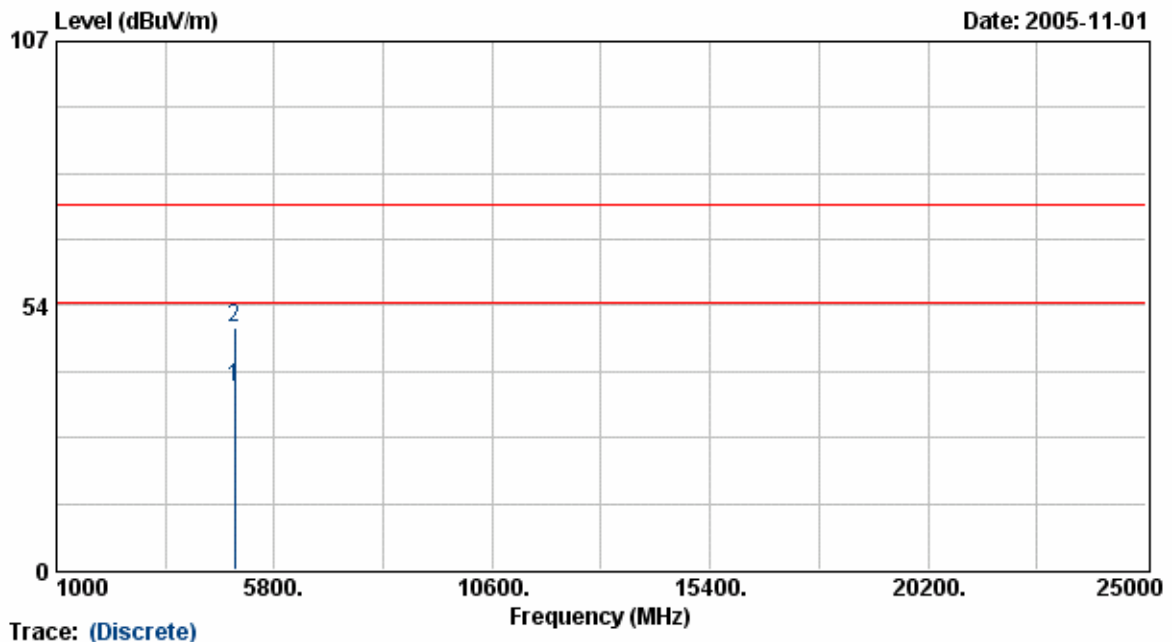
Frequency (MHz)	Meter Reading (dBuV)	Corrected Factor (dBuV/m)	Result (dBuV/m)	Limit (dB)	Margin (dB)	Remark	Table Deg.	Ant High (cm)
4875.97	33.70	7.55	41.25	54.00	-12.75	Average	239	100
4875.97	45.33	7.55	52.87	74.00	-21.13	Peak	239	100
7313.92	37.30	11.14	48.45	54.00	-5.55	Average	239	100
7313.92	49.04	11.14	60.18	74.00	-13.82	Peak	239	100

Notes:

1. Result = Meter Reading + Corrected Factor
2. Corrected Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too below to be measured.

EUT : PS801H GP
 Power : AC 120V
 Test Mode : Transmit/Receive
 Operation Channel: 11
 Modulation Type : 802.11g
 Rate : 48 Mbps
 Memo : MT10-1050200

Pol/Phase : HORIZONTAL
 Temperature : 25 °C
 Humidity : 70 %
 Atmospheric Pressure: 1020 mmHg



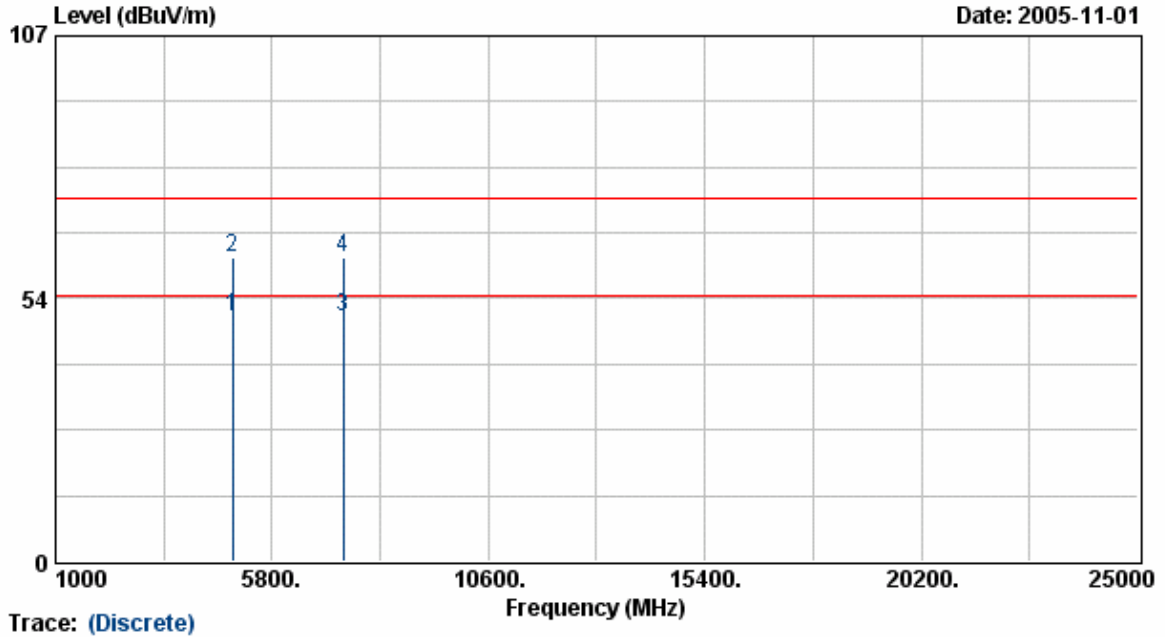
Frequency (MHz)	Meter Reading (dBuV)	Corrected Factor (dBuV/m)	Result (dBuV/m)	Limit (dB)	Margin (dB)	Remark	Table Deg.	Ant High (cm)
4923.59	28.65	8.51	37.15	54.00	-16.85	Average	233	100
4923.59	40.45	8.51	48.96	74.00	-25.04	Peak	233	100

Notes:

1. Result = Meter Reading + Corrected Factor
2. Corrected Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too below to be measured.

EUT : PS801H GP
 Power : AC 120V
 Test Mode : Transmit/Receive
 Operation Channel: 11
 Modulation Type : 802.11g
 Rate : 48 Mbps
 Memo : MT10-1050200

Pol/Phase : VERTICAL
 Temperature : 25 °C
 Humidity : 70 %
 Atmospheric Pressure: 1020 mmHg



Frequency (MHz)	Meter Reading (dBuV)	Corrected Factor (dBuV/m)	Result (dBuV/m)	Limit (dB)	Margin (dB)	Remark	Table Deg.	Ant High (cm)
4923.82	42.17	7.72	49.90	54.00	-4.10	Average	239	100
4923.82	54.07	7.72	61.79	74.00	-12.21	Peak	239	100
7385.23	38.62	11.22	49.84	54.00	-4.16	Average	239	100
7385.23	50.52	11.22	61.74	74.00	-12.26	Peak	239	100

Notes:

1. Result = Meter Reading + Corrected Factor
2. Corrected Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too below to be measured.

5.5.1 Test Photographs

Front View



Rear View



6. 6dB Bandwidth Measurement Data

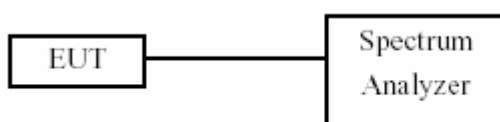
6.1 Test Limit

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

6.2 Test Procedures

1. The transmitter output was connected to the spectrum analyzer.
2. Set RBW of spectrum analyzer to 100 KHz and VBW to 100 KHz.
3. The 6 dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6 dB.

6.3 Test Setup Layout



6.4 Measurement equipment

Instrument/Ancillary	Type	Manufacturer	Serial No.	Valid Date.
Spectrum Analyzer	FSP40	R&S	100047	2005/12/28

6.5 Test Result and Data

(1) Modulation Standard: IEEE 802.11b (11Mbps)

Test Date: Oct. 26, 2005 Temperature: 24 Humidity: 69% Atmospheric pressure: 1019 mmHg

Channel	Frequency (MHz)	6dB Bandwidth (MHz)
01	2412	8.70
06	2437	8.30
11	2462	8.60

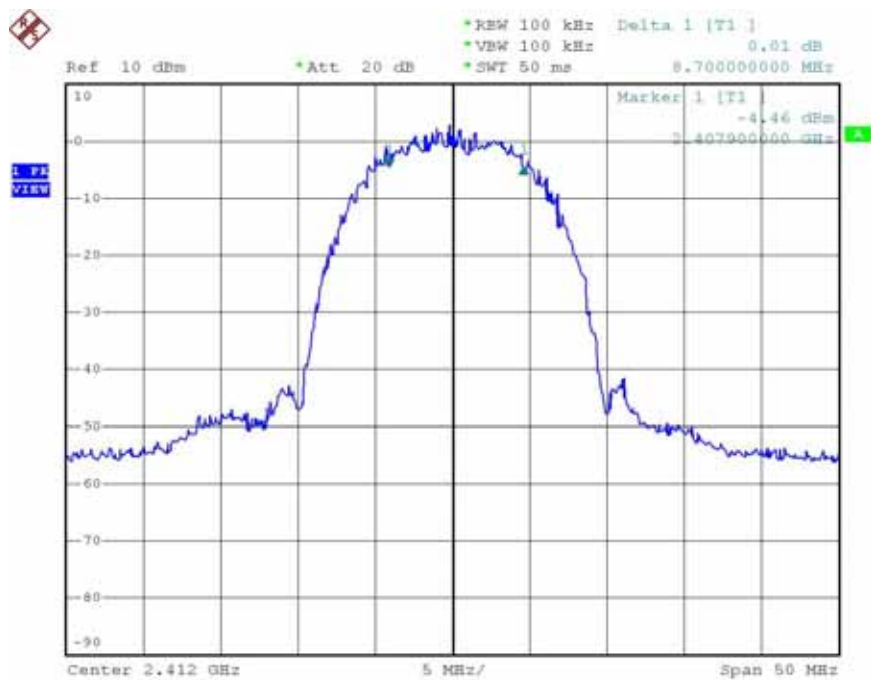
(2) Modulation Standard: IEEE 802.11g (48Mbps)

Test Date: Oct. 26, 2005 Temperature: 24 Humidity: 69% Atmospheric pressure: 1019 mmHg

Channel	Frequency (MHz)	6dB Bandwidth (MHz)
01	2412	16.40
06	2437	16.40
11	2462	16.50

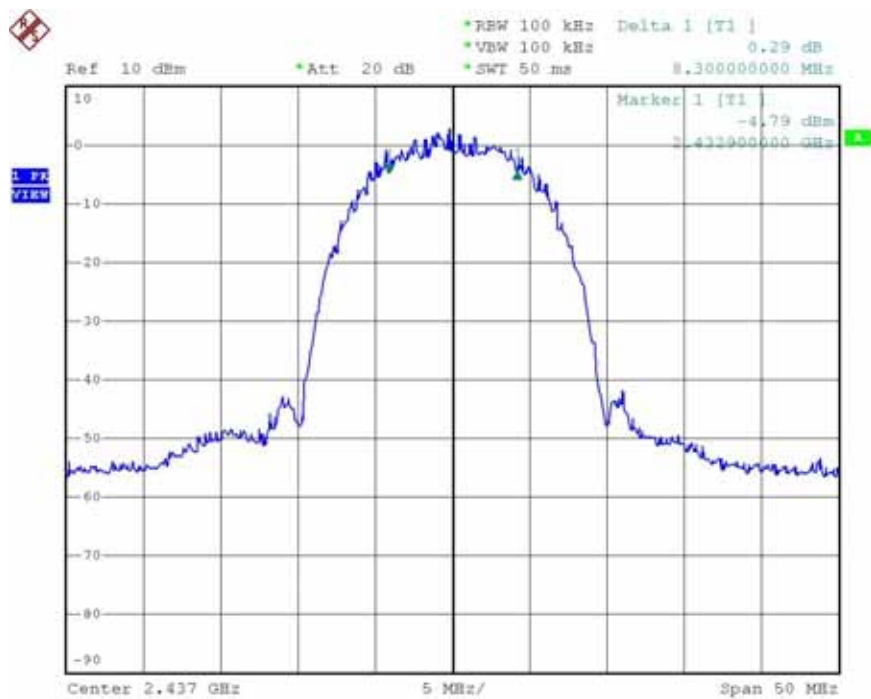
Modulation Standard: 802.11b (11Mbps)

Channel: 01



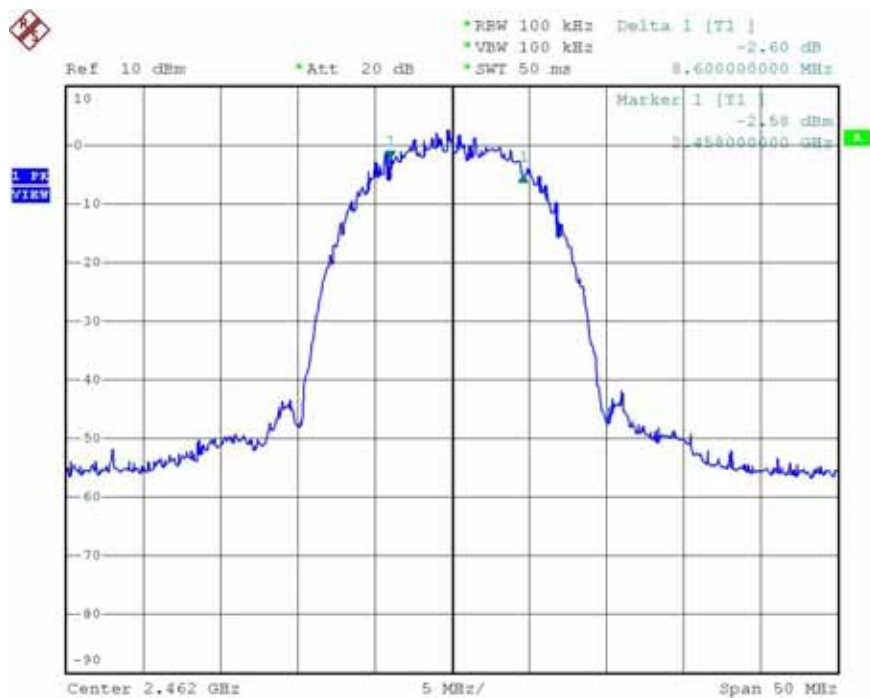
Date: 26.OCT.2005 19:47:12

Channel:06

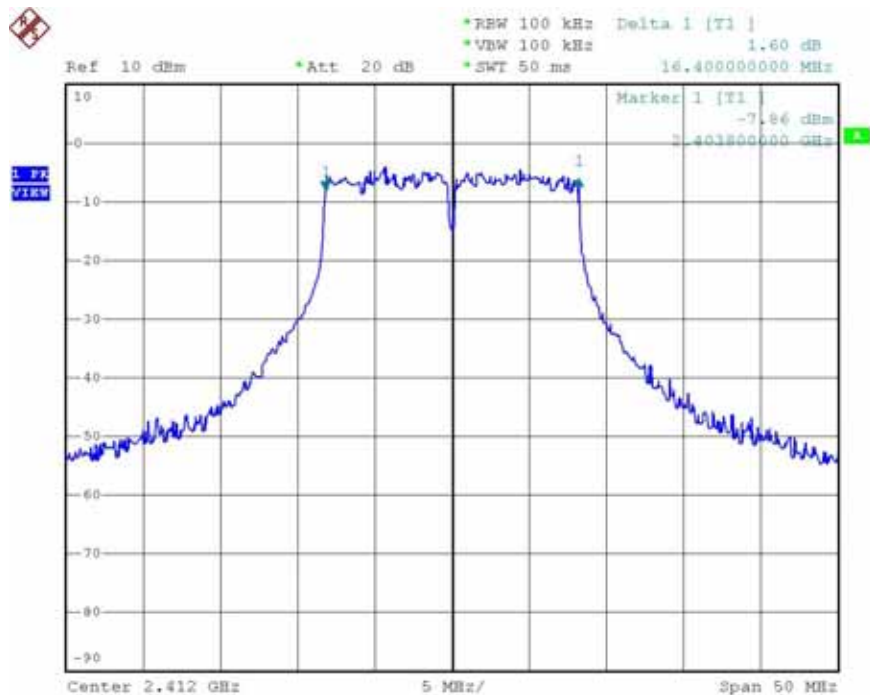


Date: 26.OCT.2005 19:48:57

Channel: 11

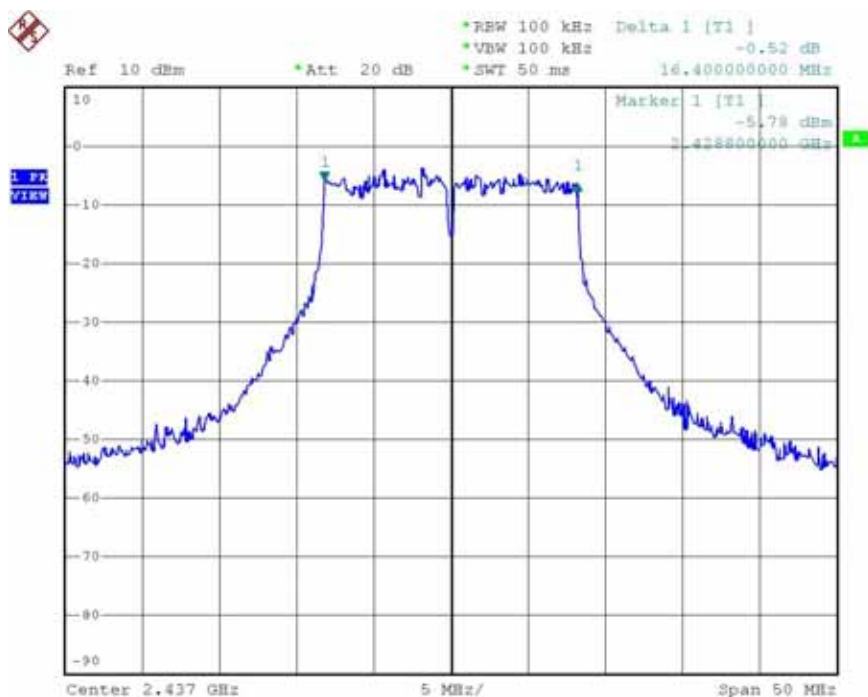


Date: 26.OCT.2005 19:50:11

Modulation Standard: 802.11g (48Mbps)
Channel: 01

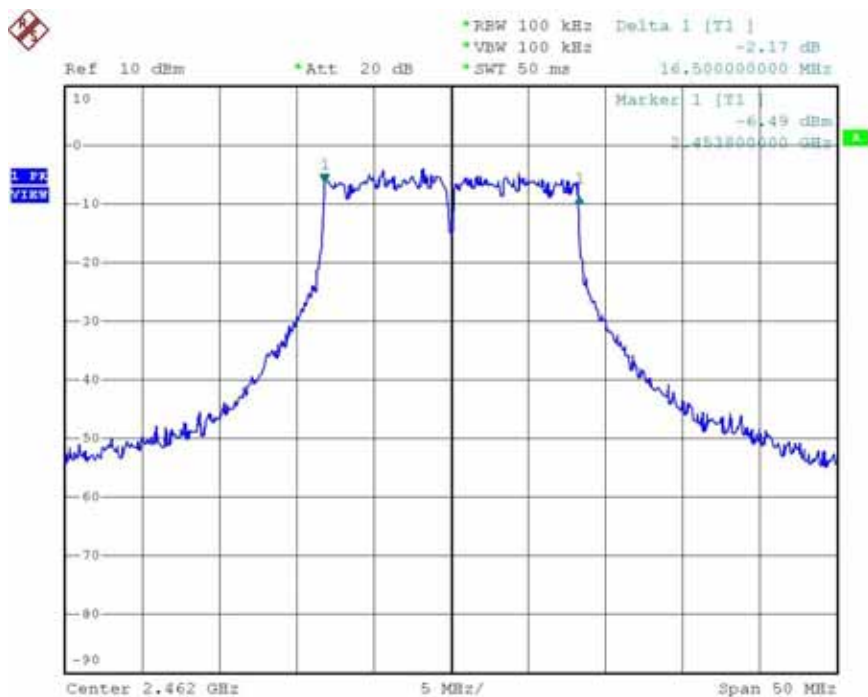
Date: 26.OCT.2005 19:36:24

Channel: 06



Date: 26.OCT.2005 19:34:50

Channel:11



Date: 26.OCT.2005 19:33:29

7. Maximum Peak Output Power

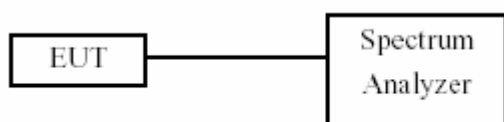
7.1 Test Limit

The Maximum Peak Output Power Measurement is 30dBm.

7.2 Test Procedures

The antenna port(RF output)of the EUT was connected to the input(RF input)of a power meter. Power was read directly from the meter and cable loss connection was added to the reading to obtain power at the EUT antenna terminal. The EUT Output Power was set to maximum to produce the worse case test result.

7.3 Test Setup Layout



7.4 List of Measuring Equipment Used

Instrument/Ancillary	Type	Manufacturer	Serial No.	Valid Date.
Spectrum Analyzer	FSP40	R&S	100047	2005/12/28

7.5 Test Result and Data

(1) Modulation Standard: IEEE 802.11b (11Mbps)

Test Date: Oct. 26, 2005 Temperature: 24 Humidity: 69% Atmospheric pressure: 1019 mmHg

Channel	Frequency (MHz)	Peak Power Output (dBm)	Peak Power Output (mW)
01	2412	17.92	61.944
06	2437	17.85	60.954
11	2462	17.71	59.020

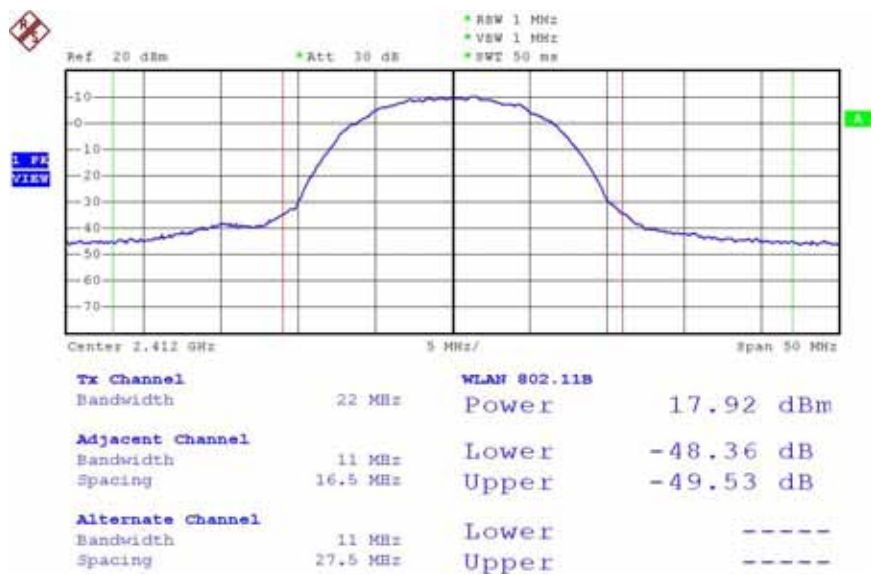
(2) Modulation Standard: IEEE 802.11g (48Mbps)

Test Date: Oct. 26, 2005 Temperature: 24 Humidity: 69% Atmospheric pressure: 1019 mmHg

Channel	Frequency (MHz)	Peak Power Output (dBm)	Peak Power Output (mW)
01	2412	15.00	31.623
06	2437	14.18	26.182
11	2462	13.92	24.660

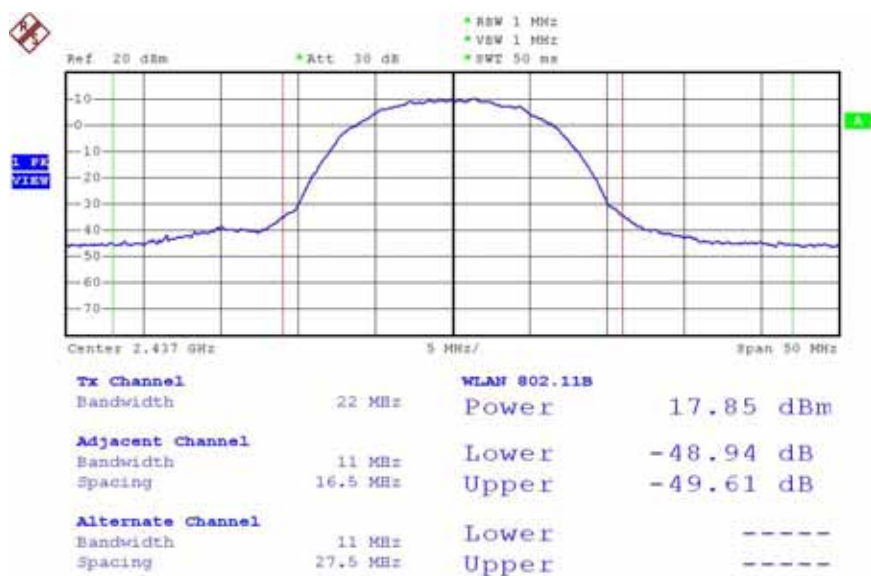
Modulation Standard: 802.11b (11Mbps)

Channel: 01



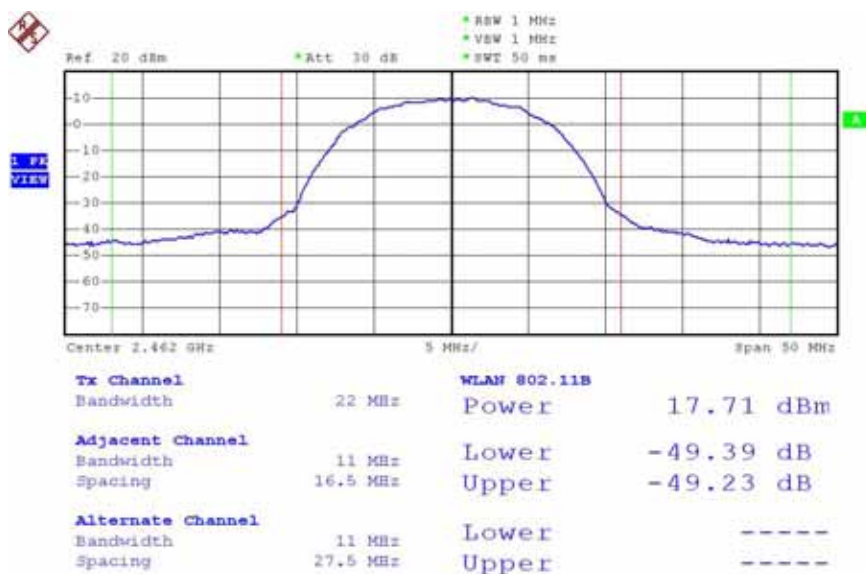
Date: 26.OCT.2005 19:25:42

Channel:06



Date: 26.OCT.2005 19:26:36

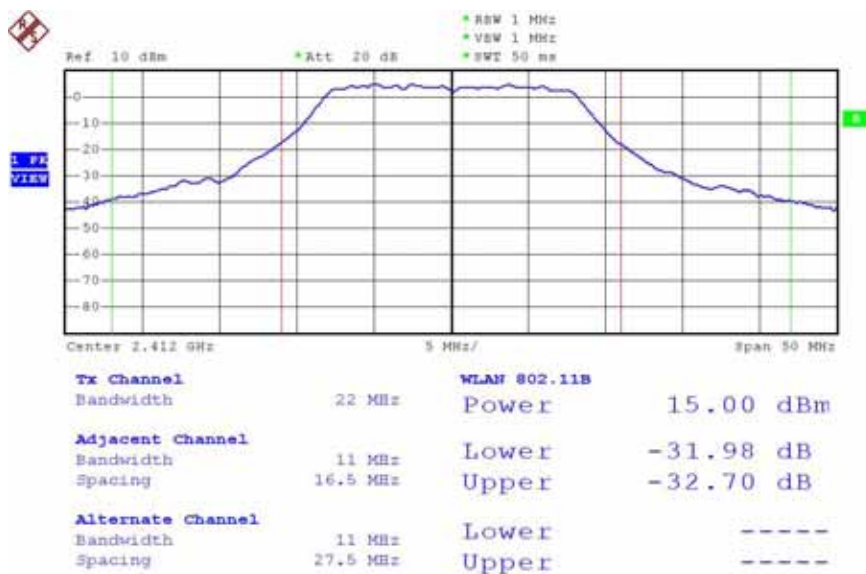
Channel: 11



Date: 26.OCT.2005 19:24:48

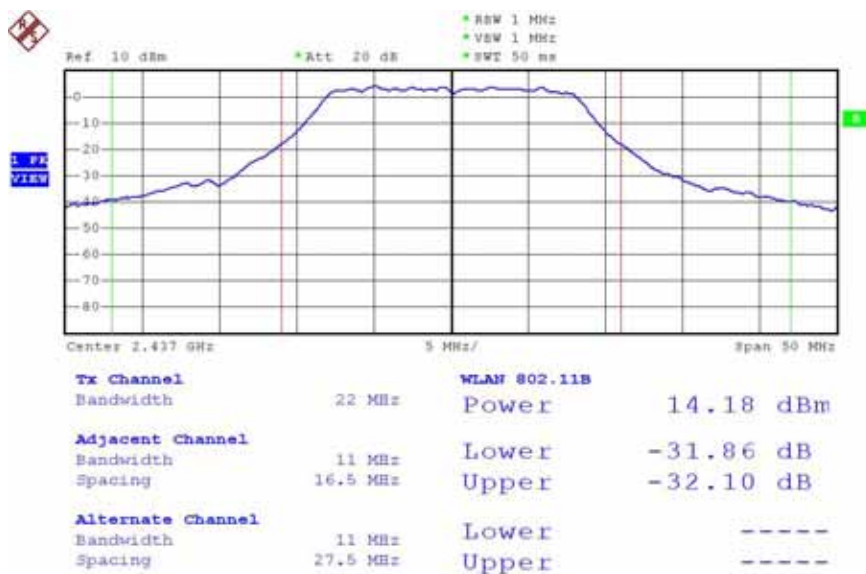
Modulation Standard: 802.11g (48Mbps)

Channel: 01



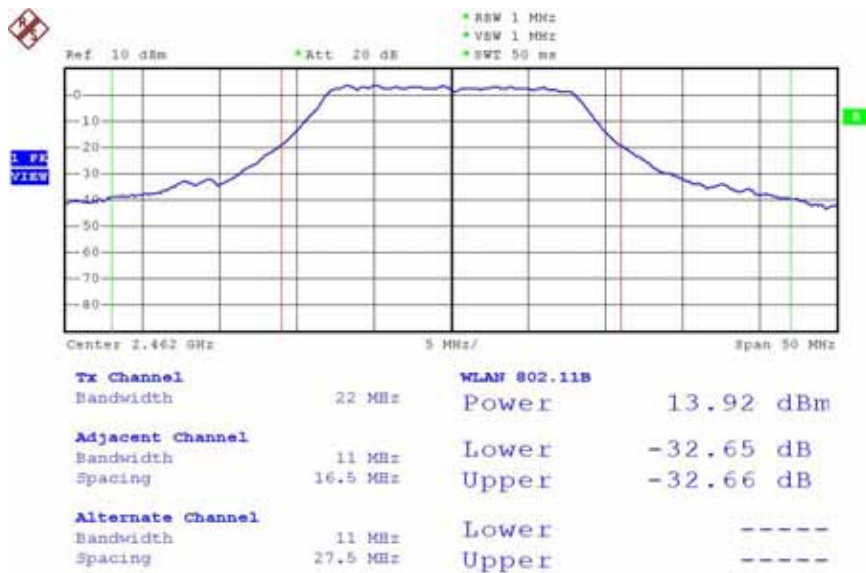
Date: 26.OCT.2005 16:15:34

Channel: 06



Date: 26.OCT.2005 16:16:47

Channel:11



Date: 26.OCT.2005 16:18:03

8. Band Edges Measurement

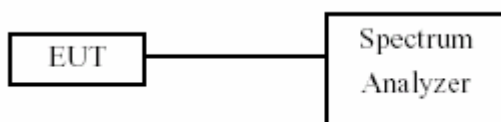
8.1 Test Limit

Below -20dB of the highest emission level of operating band
(in 100kHz Resolution Bandwidth).

8.2 Test Procedure :

- 1.The transmitter output was connected to the spectrum analyzer via a low lose cable.
- 2.Set both RBW and VBW of spectrum analyzer to 100 KHz with convenient frequency span including 100 KHz bandwidth from band edge.
- 3.The band edges was measured and recorded.

8.3 Test Setup Layout



8.4 List of Measuring Equipment Used

Instrument/Ancillary	Type	Manufacturer	Serial No.	Valid Date.
Spectrum Analyzer	FSP40	R&S	100047	2005/12/28

8.5 Test Result and Data

(1) Modulation Standard: IEEE 802.11b (11Mbps)

Test Date: Oct. 26, 2005 Temperature: 24 Humidity: 69% Atmospheric pressure: 1019 mmHg

Channel	Frequency	maximum value in frequency (MHz)	maximum value is (dBm)
01	2412	2400.00	-47.86
11	2462	2860.00	-53.13

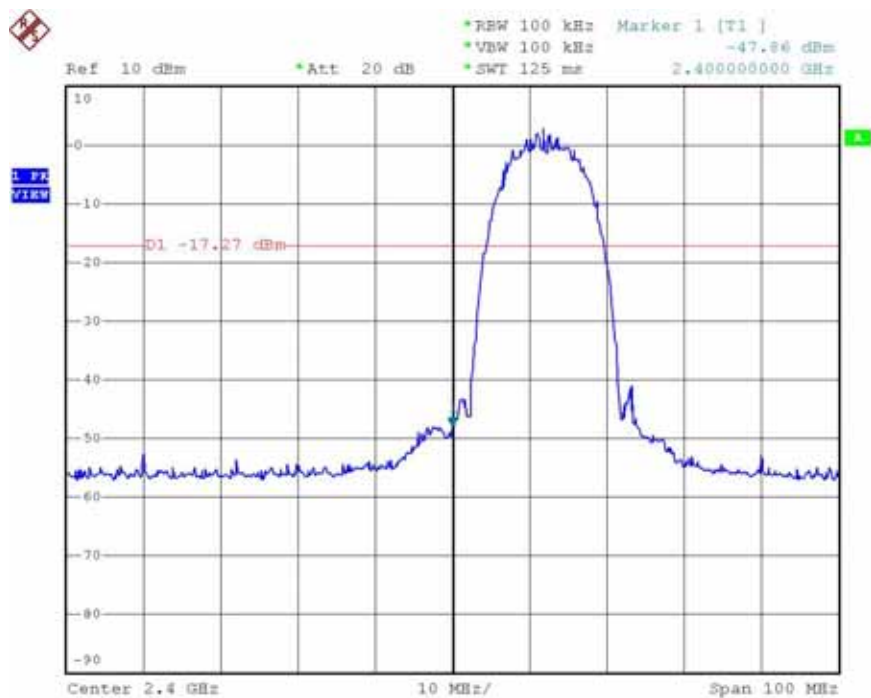
(2) Modulation Standard: IEEE 802.11g (48Mbps)

Test Date: Oct. 26, 2005 Temperature: 24 Humidity: 69% Atmospheric pressure: 1019 mmHg

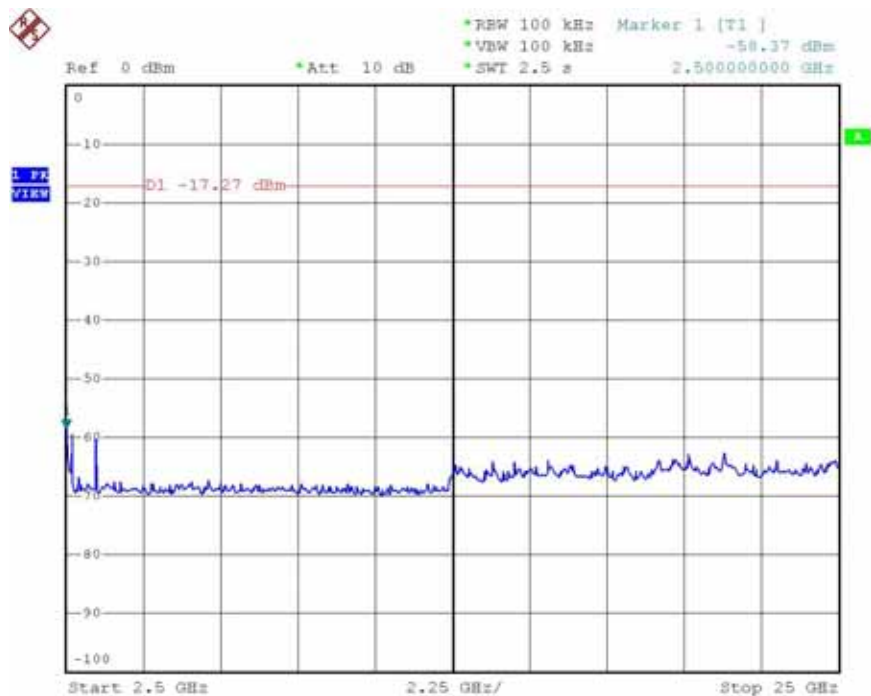
Channel	Frequency	maximum value in frequency (MHz)	maximum value is (dBm)
01	2412	2399.80	-38.52
11	2462	2484.30	-52.72

Modulation Standard: 802.11b (11Mbps)

Channel: 01

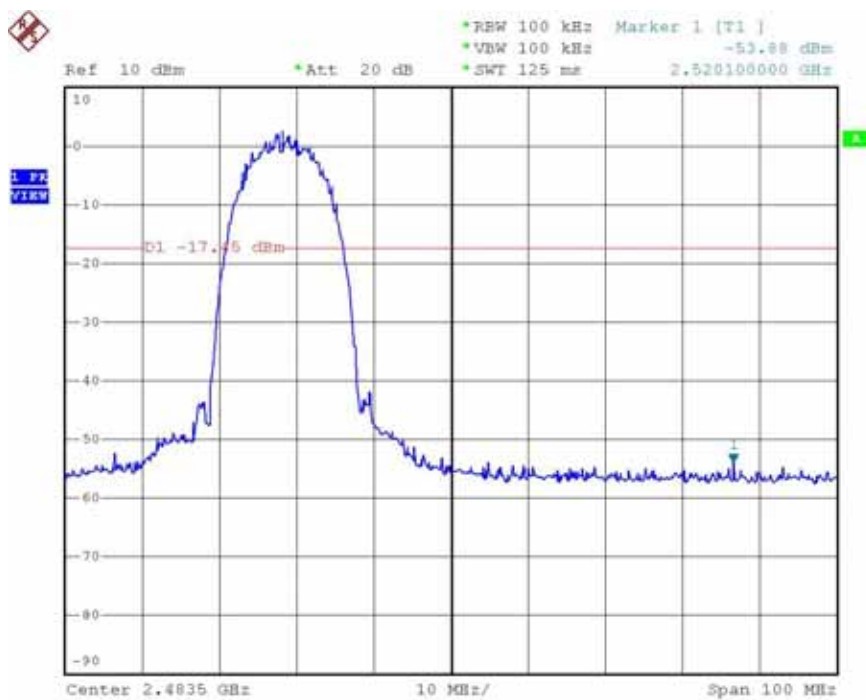


Date: 26.OCT.2005 20:10:53

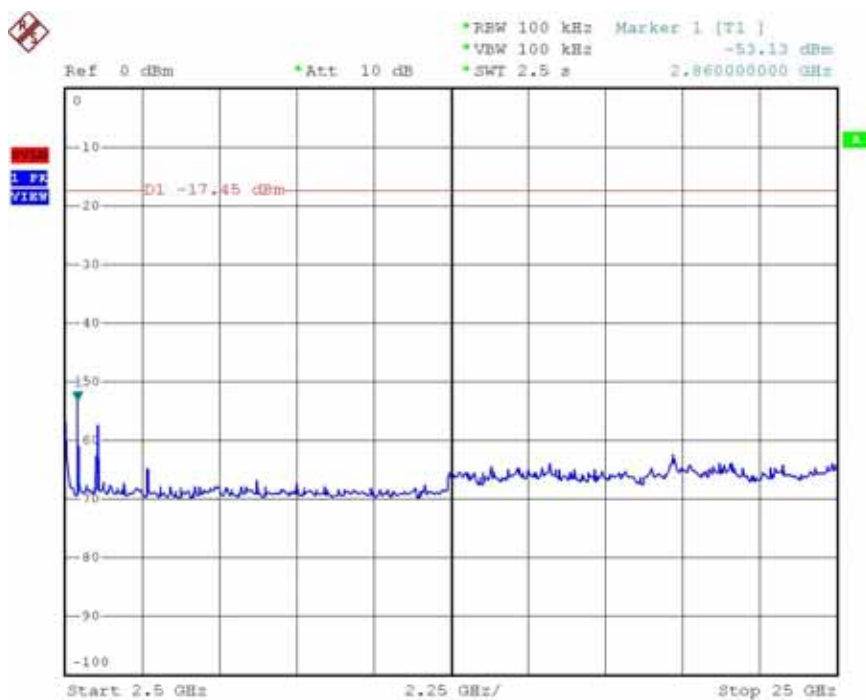


Date: 26.OCT.2005 20:13:12

Channel: 11



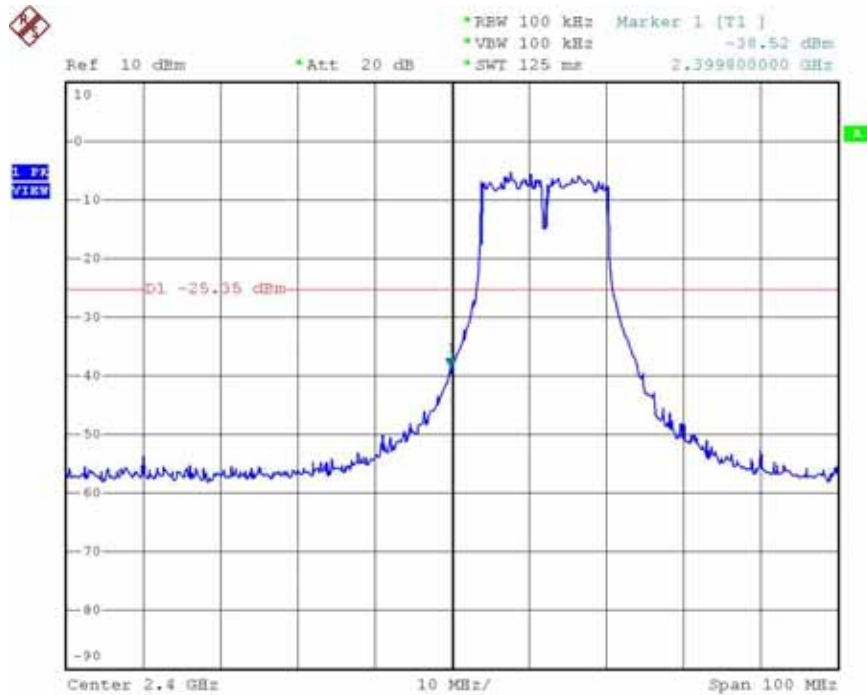
Date: 26.OCT.2005 20:14:31



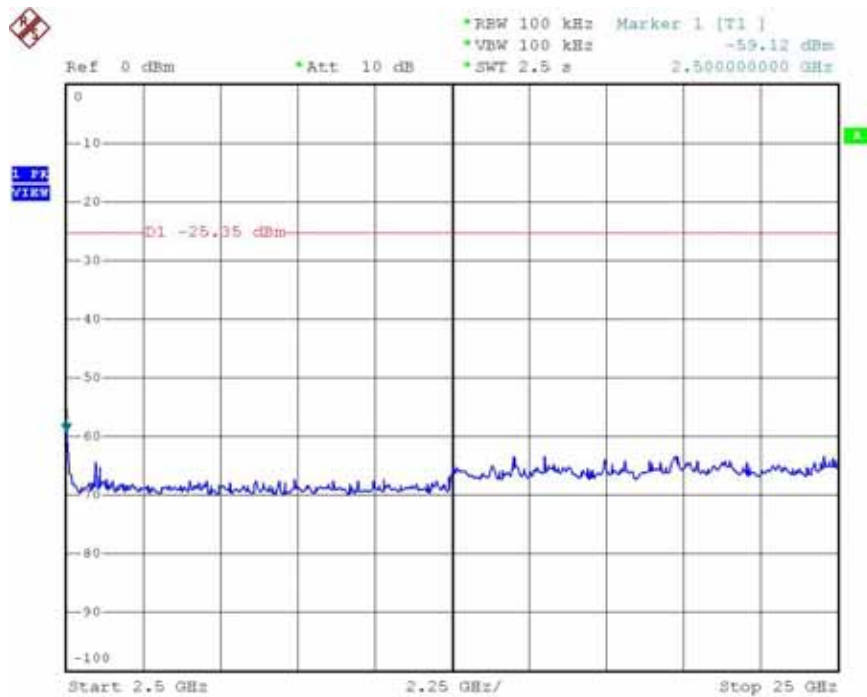
Date: 26.OCT.2005 20:15:20

Modulation Standard: 802.11g (48Mbps)

Channel: 01

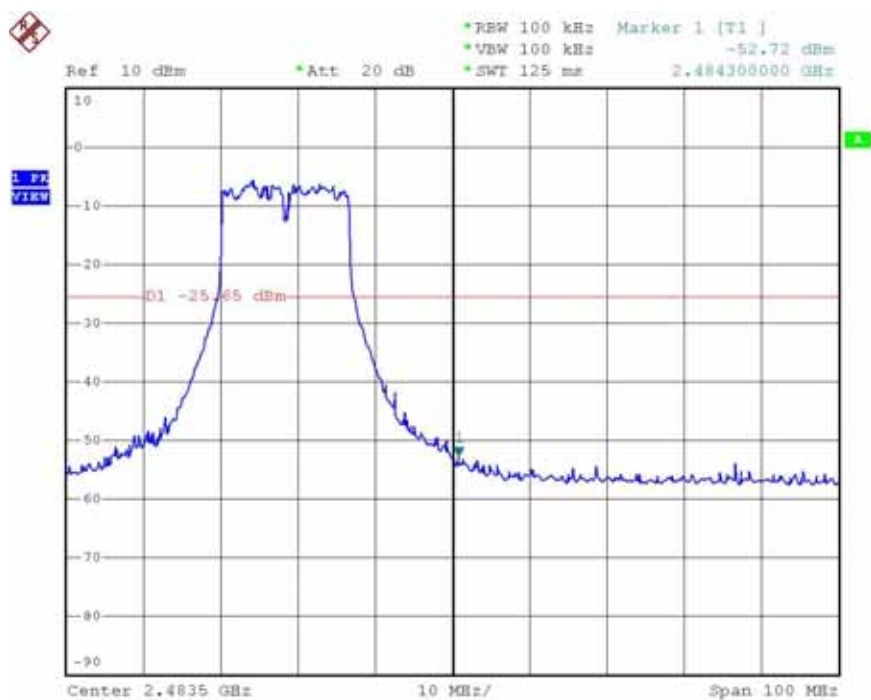


Date: 26.OCT.2005 20:05:05

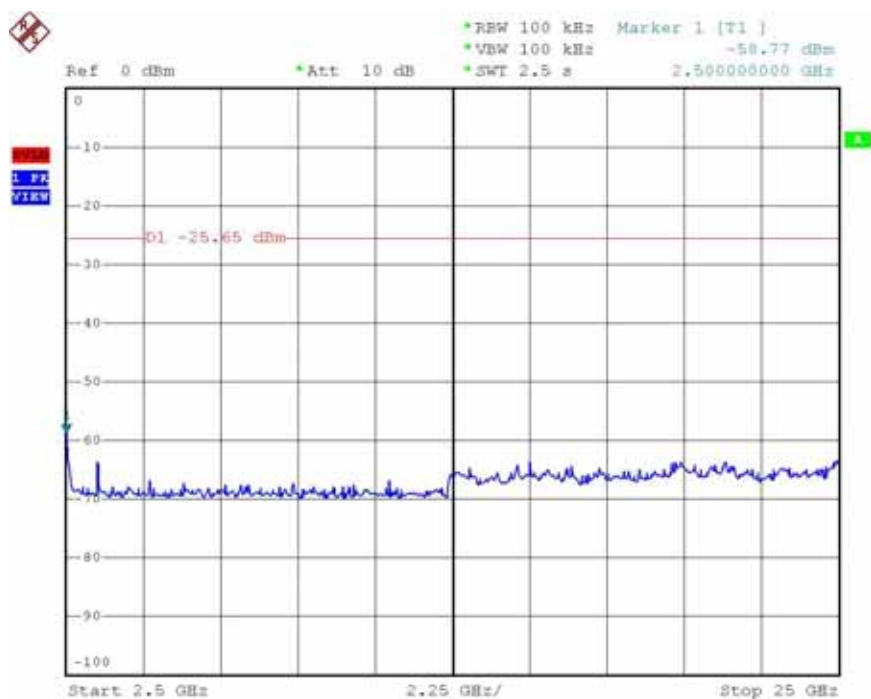


Date: 26.OCT.2005 20:05:50

Channel: 11



Date: 26.OCT.2005 20:03:01



Date: 26.OCT.2005 20:03:52

8.6 Restrict band emission Measurement Data

Modulation Standard: IEEE 802.11b (11Mbps)

Test Date: Nov. 11, 2005 Temperature: 25 Humidity: 70% Atmospheric pressure: 1020 mmHg

a) Channel 1

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBuV/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2343.558	H	49.74	1.08	50.82	Peak	74	54	-23.18	233	1.1
2359.878	H	38.55	1.15	39.70	Ave	74	54	-14.30	233	1.1
2319.894	V	55.52	0.31	55.82	Peak	74	54	-18.18	239	1.0
2319.894	V	46.33	0.31	46.64	Ave	74	54	-7.36	239	1.0

b) Channel 11

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBuV/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2486.396	H	50.03	1.58	51.61	Peak	74	54	-22.39	233	1.0
2483.736	H	37.91	1.57	39.48	Ave	74	54	-14.52	233	1.0
2483.736	V	52.60	0.87	53.47	Peak	74	54	-20.53	239	1.0
2483.508	V	40.14	0.87	41.01	Ave	74	54	-12.99	239	1.0

Modulation Standard: 802.11g (48Mbps)

Test Date: Nov. 11, 2005 Temperature: 25 Humidity: 70% Atmospheric pressure: 1020 mmHg

a) Channel 1

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBuV/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2389.968	H	52.22	1.25	53.47	Peak	74	54	-20.53	233	1.0
2489.968	H	40.57	1.25	41.82	Ave	74	54	-12.18	233	1.0
2389.458	V	60.07	0.55	60.62	Peak	74	54	-13.38	239	1.0
2319.894	V	47.91	0.31	48.22	Ave	74	54	-5.78	239	1.0

b) Channel 11

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBuV/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2483.812	H	53.56	1.57	55.13	Peak	74	54	-18.87	233	1.0
2483.508	H	41.17	1.57	42.74	Ave	74	54	-11.26	233	1.0
2483.812	V	58.43	0.87	59.30	Peak	74	54	-14.70	239	1.0
2483.508	V	46.05	0.87	46.92	Ave	74	54	-7.08	239	1.0

Notes:

1. Result = Meter Reading + Factor
2. Factor = Antenna Factor + Cable Loss – Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3 MHz for Peak detection at frequency above 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz

9. Power Spectral Density

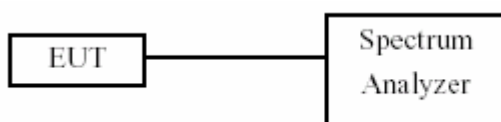
9.1 Test Limit

The Maximum of Power Spectral Density Measurement is 8dBm.

9.2 Test Procedures

- 1.The transmitter output was connected to spectrum analyzer.
- 2.The spectrum analyzer's resolution bandwidth were set at 3KHz RBW and 30KHz VBW as that of the fundamental frequency. Set the sweep time=span/3KHz.
- 3.The power spectral density was measured and recorded.
- 4.The Sweep time is allowed to be longer than span/3KHz for a full response of the mixer in the spectrum analyzer.

9.3 Test Setup Layout :



9.4 List of Measuring Equipment Used

Instrument/Ancillary	Type	Manufacturer	Serial No.	Valid Date.
Spectrum Analyzer	FSP40	R&S	100047	2005/12/28

9.5 Test Result and Data

(1) Modulation Standard: IEEE 802.11b (11Mbps)

Test Date: Oct. 26, 2005 Temperature: 24 Humidity: 69% Atmospheric pressure: 1019 mmHg

Channel	Frequency	Maximum Power Density of 3 kHz Bandwidth (dBm)
01	2412	-11.17
06	2437	-11.24
11	2462	-11.40

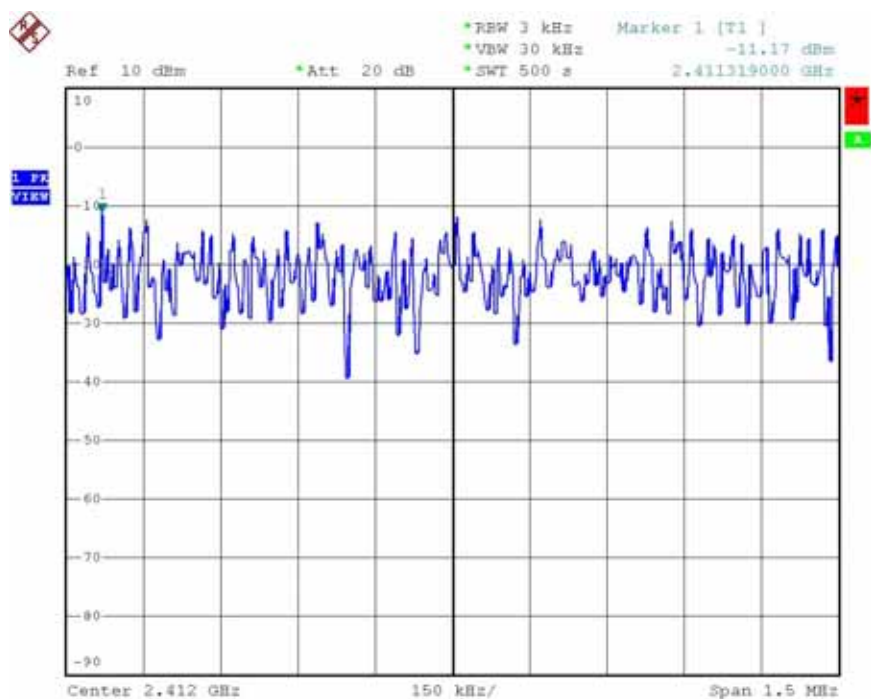
(2) Modulation Standard: IEEE 802.11g (48Mbps)

Test Date: Oct. 26, 2005 Temperature: 24 Humidity: 69% Atmospheric pressure: 1019 mmHg

Channel	Frequency	Maximum Power Density of 3 kHz Bandwidth (dBm)
01	2412	-20.01
06	2437	-20.25
11	2462	-20.16

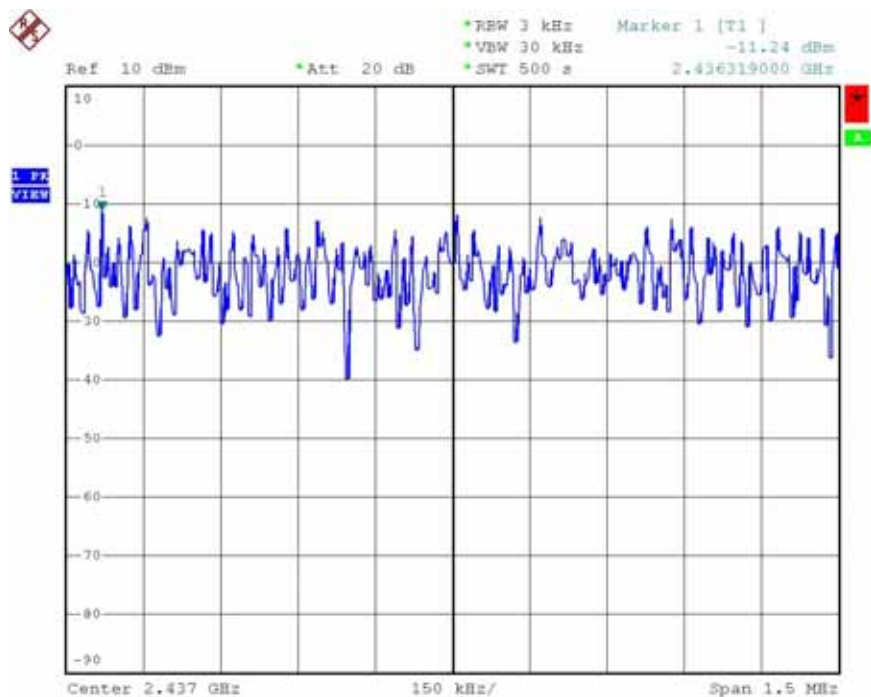
Modulation Standard: 802.11b (11Mbps)

Channel: 01



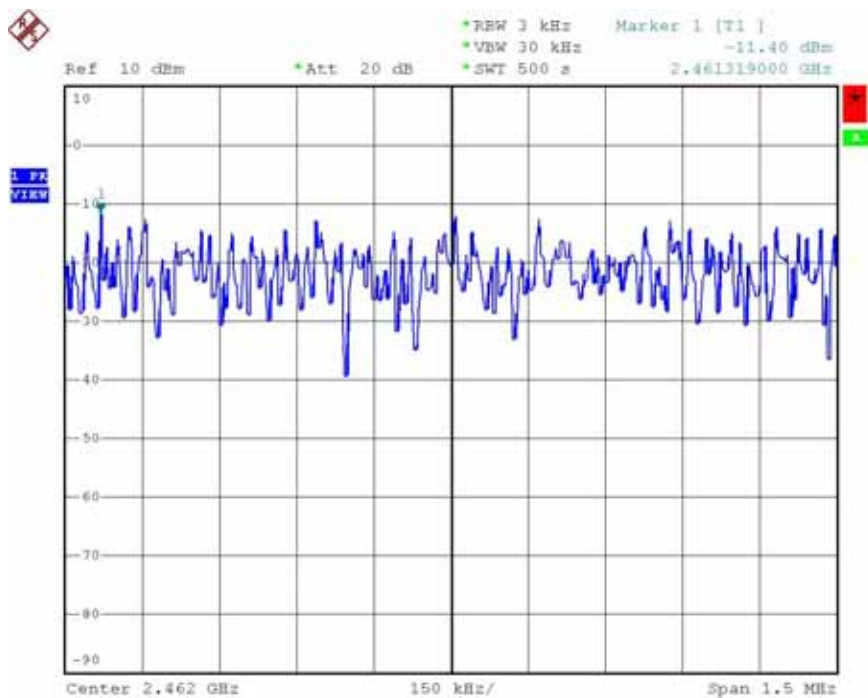
Date: 26.OCT.2005 19:54:49

Channel:06

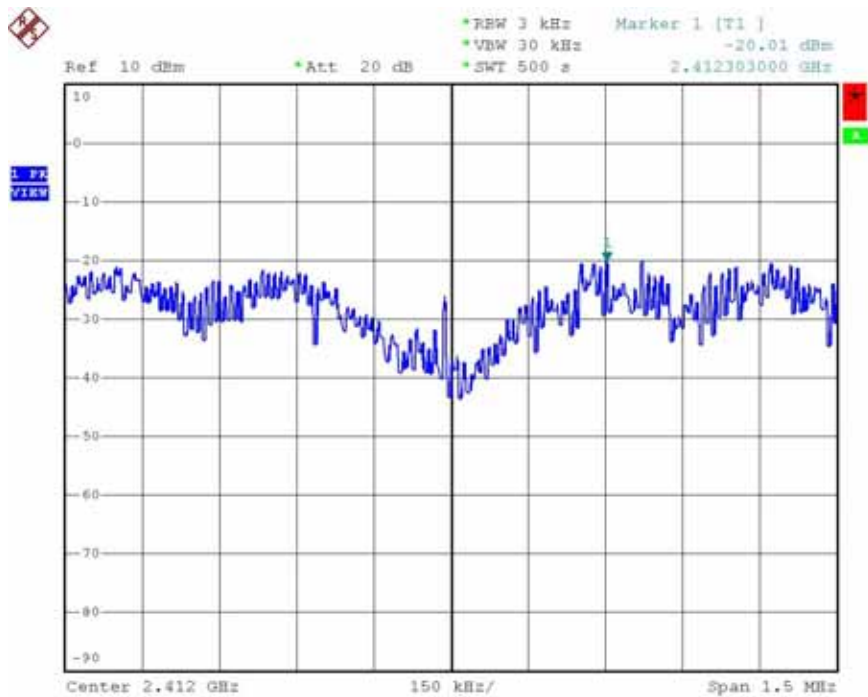


Date: 26.OCT.2005 19:53:41

Channel: 11

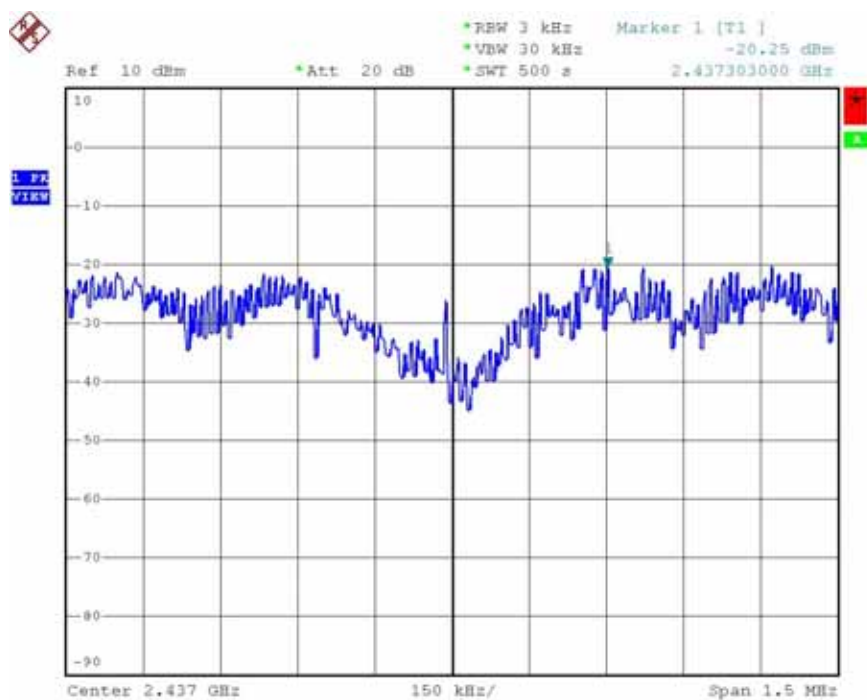


Date: 26.OCT.2005 19:52:40

Modulation Standard: 802.11g (48Mbps)
Channel: 01

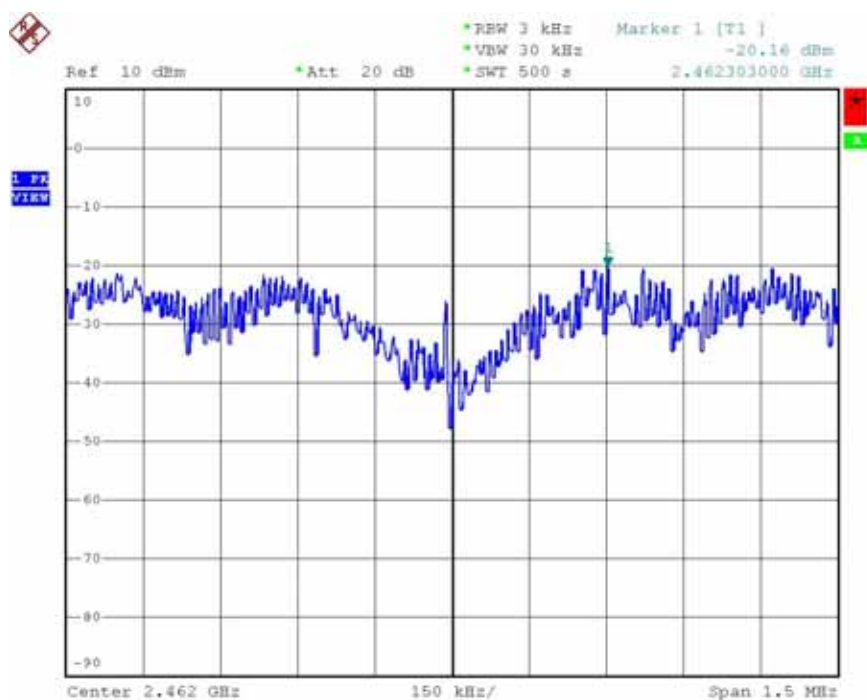
Date: 26.OCT.2005 19:58:34

Channel: 06



Date: 26.OCT.2005 19:59:45

Channel:11



Date: 26.OCT.2005 20:00:45

10. Restricted Bands of Operation

Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.09000 – 0.11000	16.42000 – 16.42300	399.9 – 410.0	4.500 – 5.250
0.49500 – 0.505**	16.69475 – 16.69525	608.0 – 614.0	5.350 – 5.460
2.17350 – 2.19050	16.80425 – 16.80475	960.0 – 1240.0	7.250 – 7.750
4.12500 – 4.12800	25.50000 – 25.67000	1300.0 – 1427.0	8.025 – 8.500
4.17725 – 4.17775	37.50000 – 38.25000	1435.0 – 1626.5	9.000 – 9.200
4.20725 – 4.20775	73.00000 – 74.60000	1645.5 – 1646.5	9.300 – 9.500
6.21500 – 6.21800	74.80000 – 75.20000	1660.0 – 1710.0	10.600 – 12.700
6.26775 – 6.26825	108.00000 – 121.94000	1718.8 – 1722.2	13.250 – 13.400
6.31175 – 6.31225	123.00000 – 138.00000	2200.0 – 2300.0	14.470 – 14.500
8.29100 – 8.29400	149.90000 – 150.05000	2310.0 – 2390.0	15.350 – 16.200
8.36200 – 8.36600	156.52475 – 156.52525	2483.5 – 2500.0	17.700 – 21.400
8.37625 – 8.38675	156.70000 – 156.90000	2655.0 – 2900.0	22.010 – 23.120
8.41425 – 8.41475	162.01250 – 167.17000	3260.0 – 3267.0	23.600 – 24.000
12.29000 – 12.29300	167.72000 – 173.20000	3332.0 – 3339.0	31.200 – 31.800
12.51975 – 12.52025	240.00000 – 285.00000	3345.8 – 3358.0	36.430 – 36.500
12.57675 – 12.57725	322.00000 – 335.40000	3600.0 – 4400.0	Above 38.6
13.36000 – 13.41000			

** : Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz

10.1 Labeling Requirement

The device shall bear the following statement in a conspicuous location on the device:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.