



MAX LIGHT

MEASUREMENT REPORT

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EXHIBIT A

SAMPLE LABEL



MAX LIGHT

MEASUREMENT REPORT

Label Format:

This device complies with Part15 of the FCC Rules.

Operation is subject to the following two conditions:

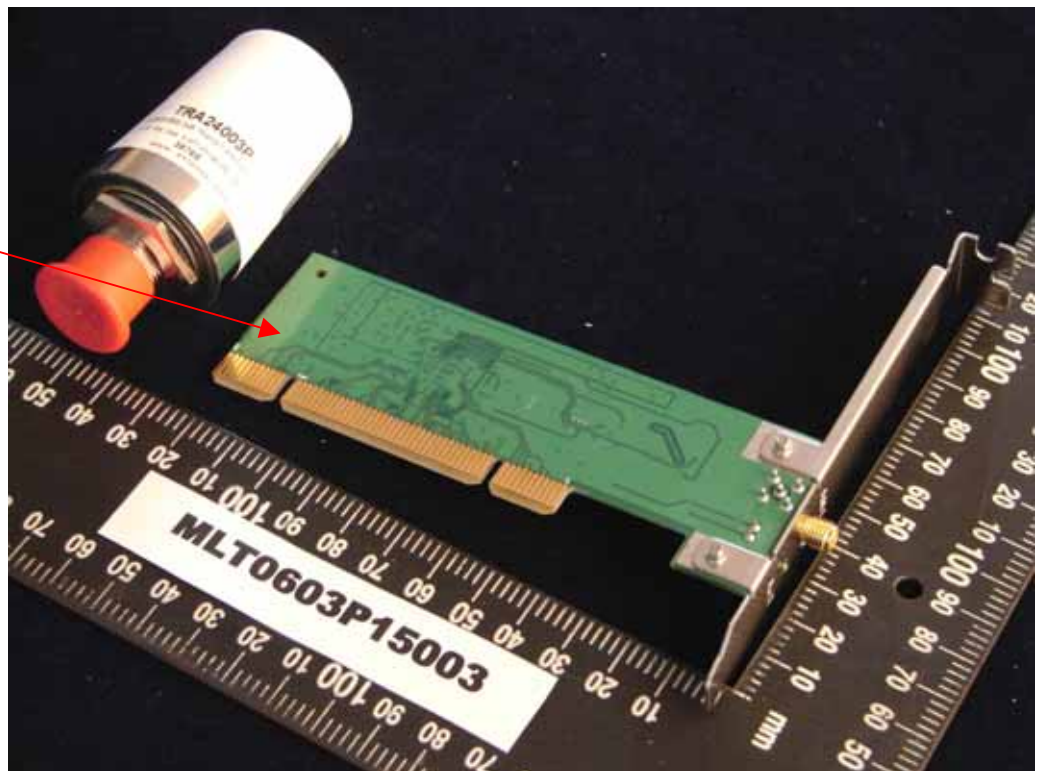
- (1)This device may not cause harmful interference, and
- (2)This device must accept any interference received , including.
Interference that may cause undesired operation.

Model No. : 17037

FCC ID: T5L17037

Label Position: Equipment Label

2.0cmX1.0cm



Rear View



MAX LIGHT
MEASUREMENT REPORT

EXHIBIT B

Measurement report

Measurement Report

Part 15 Subpart B & C (15.247)

Product.....: **MODULE 802.11g Wireless Ethernet PCI card**
Applicant.....: **March Networks Corporation**
FCC ID.....: **T5L17037**
Model No......: **17037**
Report No......: **MLT0603P15003**
Issue Date.....: **April 07,2006**



Test By

Max Light Technology Co.,Ltd.

*Room 5, 8F, No.125, Section 3 Roosevelt Road,
Taipei, Taiwan., R.O.C.*

Tel: 886-2-2363-2447 Fax: 886-2-2363-2597

The test report consists of 120 pages in total. It may be duplicated completely for legal use with the allowance of the applicant. It shall not be reproduced except in full, without the written approval of our laboratory.



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CERTIFICATION

We here by verify that :

The test data, data evaluation, test procedures and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4: 2003. All test were conducted by *MLT(Max Light Technology Co.,Ltd) Room 5, 8F, No.125, Section 3 Roosevelt Road, Taipei, Taiwan, R.O.C* Also, we attest to the accuracy of each.

We further submit that the energy emitted by the sample EUT tested as described in the report is in compliance with Class B radiated and conducted emission limit of FCC Rules Part 15 Subpart B & C (15.247).

EUT : MODULE 802.11g Wireless Ethernet PCI card

Applicant : March Networks Corporation
Suite 530, Tower B 555 Legget Drive Kanata,
ON K2K 2X3 CANADA

Manufacturer : Gemtek Technology Co., Ltd.
No.1 Jen-Ai Road, HsinChu Industrial Park,
HuKou Hsiang, HsinChu Hsien,Taiwan, R.O.C.

Model No : 17037

FCC ID : T5L17037

Prepared by : Jesse Tien Approved by : Roger Chen
Jesse Tien Roger Chen



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I. GENERAL

1.1 Introduction

The following measurement report is submitted on behalf of March Networks Corporation in support of a Class B Digital Device certification in accordance with Part 2 Subpart J and Part 15 Subpart A And B&C of the Commission's and Regulations.

1.2 Description of EUT

EUT : MODULE 802.11g Wireless Ethernet PCI card

Applicant : March Networks Corporation
Suite 530, Tower B 555 Legget Drive Kanata,
ON K2K 2X3 CANADA

Manufacturer : Gemtek Technology Co., Ltd.
No.1 Jen-Ai Road, HsinChu Industrial Park,
HuKou Hsiang, HsinChu Hsien,Taiwan, R.O.C.

Model No : 17037

FCC ID : T5L17037

Power Type : Powered by PC

Frequency of Channel: See Next page

Type of Modulation : Direct Sequence Spread Spectrum

Type of Antenna : 1/4 λ DIOPLE Antenna

During testing the EUT was operated at Tx or Rx mode for each emission measured. This was done in order to ensure that maximum emission levels were attained.

802.11b & 802.11g Frequency of Each Channel (Working Frequency)

Channel No.	Frequency (MHz)
01	2412
02	2417
03	2422
04	2427
05	2432
06	2437
07	2442
08	2447
09	2452
10	2457
11	2462

Frequency of Each Channel / 802.11 Super G (Working Frequency)

Channel No.	Frequency (MHz)
6	2437

1.3 Summary Of Tests

47 CFR Part 15 Subpart C			
Reference	Test	Results	Note
15.107	AC Power Conducted Emission	PASS	
15.247(c)	Transmitter Radiated Emissions	PASS	
15.247(b)	Max. Output Power	PASS	
15.247(a)(2)	6dB RF Bandwidth	PASS	
15.247(d)	Max. Power Density	PASS	
15.247(c)	Out of Band Conducted Spurious Emission	PASS	
15.247(c)	Band Edge Measurement	PASS	
15.203	Antenna Requirement	PASS	

1.4 Description of Support Equipment

In order to construct the minimum system which required by the ANSI C63.4-2003, following equipments were used as the support units.

Computer : HP
Model No. : Brio BA410
Serial No. : SG10301260
FCC ID : FCC DOC

Monitor : SONY
Model No. : SDM-HS74
Serial No. : 1356906
FCC ID : FCC DOC

Monitor : HP
Model No. : 6331-4CN
Serial No. : 23-FCY76
FCC ID : FCC DOC

Keyboard : IBM
Model No. : KB-9930
Serial No. : 09N5395
FCC ID : FCC DOC

Keyboard : DELL
Model No. : SK-8110
Serial No. : C0111004080
FCC ID : FCC DOC

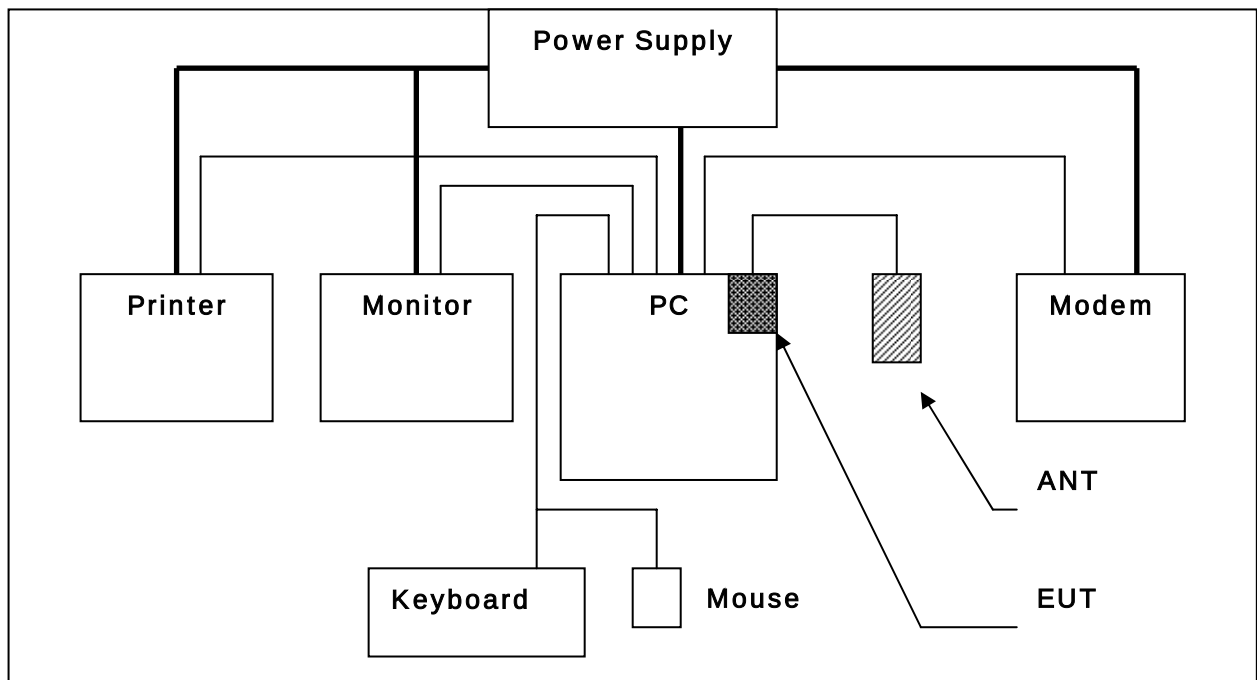
Mouse : IBM
Model No. : 0180-05N
Serial No. : 23-96142
FCC ID : EMJMUSJJ

Mouse : DELL
Model No. : M-SAW34
Serial No. : LZE24773928
FCC ID : EMJMUSJJ

Modem : ASKEY
Model No. : WS1414SV
Serial No. : N/A
FCC ID : FCC DOC

Printer : Panasonic
Model No. : KX-P1121
Serial No. : 7CKAKE98933
FCC ID : FCC DOC

1.5 Configuration of System Under Test



During testing the EUT(Router) 's LAN / L1&L2&L3&L4 Ethernet port connected to the Remote Ethernet and ADSL port connected to the Remote ADSL simulator. So there is need for additional Ethernet card.



1.6 Test Procedure

All measurements contained in this report were performed according to the techniques described in Measurement procedure ANSI C63.4-2003 "Measurement of un-Intentional Radiators."

1.7 General Test Condition

The conditions under which the EUT operates were varied to determine their effect on the equipment's emission characteristics. The final configuration of the test system and the mode of operation used during these tests were chosen as that which produced the highest emission levels. However, only those conditions which the EUT was considered likely to encounter in normal use were investigated. The system's radiated and conducted emissions were investigated while the computer alternately transferred data to the EUT as well as to the monitor and printer. Using a test program which sent a continuous data and transferred data to and from the EUT was proven to worst case emissions. The system's physical layout and cabling was randomly arranged to ensure that maximum emission levels were attained.



II. Conducted Emissions Requirements

2.1 General & Setup :

The power line conducted emission measurements were performed in a shielded enclosure. The EUT was assembled on a wooden table which is 80 centimeters high, was placed 40 centimeters from the back-wall and at least 1 meter from the sidewall.

Power was fed to the EUT from the public utility power grid through a line filter and EMCO Model 3825/2 Line Impedance Stabilization Networks (LISN). The LISN housing, measuring instrumentation case, ground plane, etc., were electrically bonded together at the same RF potential. The Spectrum analyzer was connected to the AC line through an isolation transformer. The 50-ohm output of the LISN was connected to the spectrum analyzer directly. Conducted emission levels were in the CISPR quasi-peak detection mode. The analyzer's 6 dB bandwidth was set to 9 KHz. No post-detector video filter was used.

The spectrum was scanned from 150 KHz to 30 MHz. The physical arrangement of the test system and associated cabling was varied (within the scope of arrangements likely to be encountered in actual use) to determine the effect on the unit's emanations in amplitude and frequency. All spurious emission frequencies were observed. The highest emission amplitudes relative to the appropriate limit were measured and have been recorded in paragraph 2.6.

2.2 Test Equipment List:

<i>Item</i>	<i>Mfr/Brand</i>	<i>Instruments</i>	<i>Serial No.</i>	<i>Model/Type No.</i>	<i>Calibrated Date</i>	<i>Next Cali. Date</i>
1.	ADVANTEST	Spectrum Analyzer	91780529	R3131	2006/01/17	2007/01/17
2.	AFJ	EMI Receiver	55090002141	ER 55C	2006/03/31	2007/03/31
3.	EMCO	LISN	2654	3825/2	2006/03/25	2007/03/25
4.	EMCO	LISN	2658	3825/2	2006/03/25	2007/03/25
5.	SCHAFFNER	ISN	16831	ISN T400	N/A	N/A

2.3 Test Configuration:

ANTENEX ANT



Front View of The Test Configuration

ANTENEX ANT



Rear View of The Test Configuration

STI-CO ANT



Front View of The Test Configuration

STI-CO ANT



Rear View of The Test Configuration

2.4 Test condition:

EUT tested in accordance with the specifications given by the Manufacturer , and exercised in the most unfavorable manner.

2.5 Conducted Emissions Limits:

<i>Frequency range (MHz)</i>	<i>Limits (dBuV)</i>	
	<i>Quasi-peak</i>	<i>Average</i>
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5.0	56	46
5.0 to 30	60	50

2.6 Measurement Data Of Conducted Emissions:

2.6.1 Conducted Emissions (Subpart B & C)

The following table show a summary of the highest emissions of power line conducted emissions to the HOT and NEUTRAL conductor of the EUT power.

Applicant : March Networks Corporation
 Model No : 17037
 EUT : MODULE 802.11g Wireless Ethernet PCI card
 Test Mode : 802.11b (CH01)
 Test Date : 03/23/2006

Power Line Conducted Emissions (Class B)					
Conductor	Frequency (MHz)	Quasi-Peak (dBuV)	Limits	Average (dBuV)	Limits
L1	0.22	45.86	62.61	--	52.61
	0.40	39.31	57.77	--	47.77
	0.73	37.49	56	--	46
	1.28	36.91	56	--	46
	4.18	39.07	56	--	46
	4.65	40.93	56	--	46
	15.47	40.86	60	--	50
L2	0.16	47.18	65.38	--	55.38
	0.22	45.41	62.61	--	52.61
	0.31	41.11	59.93	--	49.93
	0.73	37.57	56	--	46
	1.27	37.30	56	--	46
	4.29	38.28	56	--	46
	5.11	38.70	60	--	50

Notes : 1.L1: One end & Ground L2: The other end & Ground
 2.Height of table on which the EUT was placed : 0.8 m.
 3.The Quasi-Peak Value have already met the Average Value Limit showed on above limits.
 4.The above test results are obtained under the normal condition.

2.6.2 Conducted Emissions (Subpart B & C)

The following table show a summary of the highest emissions of power line conducted emissions to the HOT and NEUTRAL conductor of the EUT power.

Applicant : March Networks Corporation
Model No : 17037
EUT : MODULE 802.11g Wireless Ethernet PCI card
Test Mode : 802.11b (CH06)
Test Date : 03/23/2006

Power Line Conducted Emissions (Class B)					
Conductor	Frequency (MHz)	Quasi-Peak (dBuV)	Limits	Average (dBuV)	Limits
L1	0.16	47.53	65.30	--	55.30
	0.22	45.47	62.61	--	52.61
	0.73	37.38	56	--	46
	0.84	37.29	56	--	46
	1.17	36.65	56	--	46
	4.29	39.99	56	--	46
	4.75	40.82	56	--	46
L2	0.16	45.32	65.30	--	55.30
	0.22	45.86	62.61	--	52.61
	0.31	40.47	59.75	--	49.75
	0.73	37.04	56	--	46
	1.28	36.25	56	--	46
	4.18	38.98	56	--	46
	4.00	38.76	60	--	50

Notes : 1.L1: One end & Ground L2: The other end & Ground
 2.Height of table on which the EUT was placed : 0.8 m.
 3.The Quasi-Peak Value have already met the Average Value Limit showed on above limits.
 4.The above test results are obtained under the normal condition.

2.6.3 Conducted Emissions (Subpart B & C)

The following table show a summary of the highest emissions of power line conducted emissions to the HOT and NEUTRAL conductor of the EUT power.

Applicant : March Networks Corporation
Model No : 17037
EUT : MODULE 802.11g Wireless Ethernet PCI card
Test Mode : 802.11b (CH11)
Test Date : 03/23/2006

Power Line Conducted Emissions (Class B)					
Conductor	Frequency (MHz)	Quasi-Peak (dBuV)	Limits	Average (dBuV)	Limits
L1	0.16	46.00	65.30	--	55.30
	0.22	45.01	62.61	--	52.61
	0.31	39.95	59.93	--	49.93
	0.82	37.93	56	--	46
	1.28	37.38	56	--	46
	4.77	40.35	56	--	46
	20.59	38.19	60	--	50
L2	0.16	45.33	65.30	--	55.30
	0.22	44.75	62.61	--	52.61
	0.31	40.25	59.93	--	49.93
	0.73	37.26	56	--	46
	1.28	36.67	56	--	46
	4.29	38.81	56	--	46
	5.14	37.49	60	--	50

Notes : 1.L1: One end & Ground L2 : The other end & Ground
 2.Height of table on which the EUT was placed : 0.8 m.
 3.The Quasi-Peak Value have already met the Average Value Limit showed on above limits.
 4.The above test results are obtained under the normal condition.

2.6.4 Conducted Emissions (Subpart B & C)

The following table show a summary of the highest emissions of power line conducted emissions to the HOT and NEUTRAL conductor of the EUT power.

Applicant : March Networks Corporation
Model No : 17037
EUT : MODULE 802.11g Wireless Ethernet PCI card
Test Mode : 802.11g (CH01)
Test Date : 03/23/2006

Power Line Conducted Emissions (Class B)					
Conductor	Frequency (MHz)	Quasi-Peak (dBUV)	Limits	Average (dBUV)	Limits
L1	0.22	44.80	62.61	--	52.61
	0.30	39.81	59.97	--	49.97
	0.73	37.07	56	--	46
	1.27	36.46	56	--	46
	3.80	38.92	56	--	46
	4.29	40.04	56	--	46
	4.77	40.65	56	--	46
L2	0.22	44.36	62.61	--	52.61
	0.31	40.53	59.93	--	49.93
	0.73	36.57	56	--	46
	0.84	36.82	56	--	46
	1.28	36.44	56	--	46
	4.65	39.00	56	--	46
	5.14	39.52	60	--	50

Notes : 1.L1: One end & Ground L2: The other end & Ground
 2.Height of table on which the EUT was placed : 0.8 m.
 3.The Quasi-Peak Value have already met the Average Value Limit showed on above limits.
 4.The above test results are obtained under the normal condition.

2.6.5 Conducted Emissions (Subpart B & C)

The following table show a summary of the highest emissions of power line conducted emissions to the HOT and NEUTRAL conductor of the EUT power.

Applicant : March Networks Corporation
Model No : 17037
EUT : MODULE 802.11g Wireless Ethernet PCI card
Test Mode : 802.11g (CH06)
Test Date : 03/23/2006

Power Line Conducted Emissions (Class B)					
Conductor	Frequency (MHz)	Quasi-Peak (dBuV)	Limits	Average (dBuV)	Limits
L1	0.22	45.02	62.61	--	52.61
	0.31	39.29	59.93	--	49.93
	0.73	36.93	56	--	46
	1.17	37.48	56	--	46
	1.81	35.49	56	--	46
	4.65	40.73	56	--	46
	5.14	41.26	60	--	50
L2	0.16	44.49	65.30	--	55.30
	0.22	44.13	62.61	--	52.61
	0.31	39.95	59.93	--	49.93
	0.73	36.57	56	--	46
	1.17	36.53	56	--	46
	4.65	39.61	56	--	46
	20.59	37.31	60	--	50

Notes : 1.L1: One end & Ground L2: The other end & Ground
 2.Height of table on which the EUT was placed : 0.8 m.
 3.The Quasi-Peak Value have already met the Average Value Limit showed on above limits.
 4.The above test results are obtained under the normal condition.

2.6.6 Conducted Emissions (Subpart B & C)

The following table show a summary of the highest emissions of power line conducted emissions to the HOT and NEUTRAL conductor of the EUT power.

Applicant : March Networks Corporation
Model No : 17037
EUT : MODULE 802.11g Wireless Ethernet PCI card
Test Mode : 802.11g (CH11)
Test Date : 03/23/2006

Power Line Conducted Emissions (Class B)					
Conductor	Frequency (MHz)	Quasi-Peak (dBuV)	Limits	Average (dBuV)	Limits
L1	0.16	45.60	65.30	--	55.30
	0.22	44.72	62.61	--	52.61
	0.73	37.29	56	--	46
	1.18	36.74	56	--	46
	3.80	39.59	56	--	46
	4.65	39.87	56	--	46
	5.14	40.15	60	--	50
L2	0.16	45.40	65.30	--	55.30
	0.22	45.55	62.61	--	52.61
	0.31	40.47	59.93	--	49.93
	0.73	37.54	56	--	46
	1.28	35.64	56	--	46
	3.80	37.70	56	--	46
	4.65	39.67	56	--	46

Notes : 1.L1: One end & Ground L2: The other end & Ground
 2.Height of table on which the EUT was placed : 0.8 m.
 3.The Quasi-Peak Value have already met the Average Value Limit showed on above limits.
 4.The above test results are obtained under the normal condition.

2.6.7 Conducted Emissions (Subpart B & C)

The following table show a summary of the highest emissions of power line conducted emissions to the HOT and NEUTRAL conductor of the EUT power.

Applicant : March Networks Corporation
Model No : 17037
EUT : MODULE 802.11g Wireless Ethernet PCI card
Test Mode : 802.11 Super G (CH06)
Test Date : 03/23/2006

Power Line Conducted Emissions (Class B)					
Conductor	Frequency (MHz)	Quasi-Peak (dBuV)	Limits	Average (dBuV)	Limits
L1	0.16	47.97	65.30	--	55.30
	0.22	46.22	62.61	--	52.61
	0.31	42.84	59.93	--	49.93
	1.17	38.43	56	--	46
	3.80	38.45	56	--	46
	4.65	40.65	56	--	46
	5.14	39.60	60	--	50
L2	0.22	45.75	62.61	--	52.61
	0.30	40.92	60.19	--	50.19
	0.73	37.93	56	--	46
	0.84	37.43	56	--	46
	1.27	36.72	56	--	46
	4.65	39.48	56	--	46
	10.34	34.60	60	--	50

Notes : 1.L1: One end & Ground L2: The other end & Ground
 2.Height of table on which the EUT was placed : 0.8 m.
 3.The Quasi-Peak Value have already met the Average Value Limit showed on above limits.
 4.The above test results are obtained under the normal condition.

III. Radiated Emissions Requirements

3.1 General Configuration:

Prior to open-field testing, the EUT was placed in a shielded enclosure and scanned at a close distance to determine its emission characteristics. The physical arrangement of the EUT was varied (within the scope of arrangements likely to be encountered in actual use) to determine the effect on the unit's emanations in amplitude, directivity, and frequency. The exact system configuration which produced the highest emissions was noted so it could be reproduced later during the open-field tests. This was done to ensure that the final measurements would demonstrate the worst-case interference potential of the EUT.

3.2 General Configuration:

Final radiation measurements were made on a three-meter, open-field test site. The EUT system was placed on a nonconductive turntable which was 0.8 meters height, top surface 1.0 x 1.5 meter. The spectrum was examined from 250 MHz to 2.5 GHz in order to cover the whole spectrum below 10th harmonic which could generate from the EUT. During the test, EUT was set to transmit continuously & Measurements spectrum range from 30 MHz to 26.5 GHz is investigated.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 1 MHz for peak measurements and 10 Hz for average measurements.

A nonconductive material surrounded the EUT to supporting the EUT for standing on three orthogonal planes. At each condition, the EUT was rotated 360 degrees, and the antenna was raised and lowered from one to four meters to find the maximum emission levels. Measurements were taken using both horizontal and vertical antenna polarization.



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The field strength below 1 GHz was measured by EMCO Biconilog Antenna (mode 3142) at 3 Meter and the SCHWARZBECK Double Ridged Guide Antenna (model BBHA9120D&9170) was used in frequencies 1 – 40 GHz at a distance of 1 meter. All test results were extrapolated to equivalent signal at 3 meters utilizing an inverse linear distance extrapolation Factor (20dB/decade).

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.

Appropriate preamplifiers were used for improving sensitivity and precautions were taken to avoid overloading or desensitizing the spectrum analyzer. No post – detector video filters were used in the test.

The spectrum analyzer's 6 dB bandwidth was set to 1 MHz, and the analyzer was operated in the peak detection mode, for frequencies both below and up 1 GHz. The average levels were obtained by subtracting the duty cycle correction factor from the peak readings.

The following procedures were used to convert the emission levels measured in decibels referenced to 1 microvolt (dBuV) into field intensity in microvolts per meter (uV/m).

The actual field intensity in decibels referenced to 1 microvolt in to field intensity in microvolts per meter (dBuV/m).

The actual field intensity in referenced to 1 microvolt per meter (dBuV/m) is determined by algebraically adding the measured reading in dBuV, the antenna factor (dB), and cable loss (dB) and Subtracting the gain of preamplifier (dB) is auto calculate in spectrum analyzer.

$$(1) \text{ Amplitude (dBuV/m)} = \text{FI(dBuV)} + \text{AF(dBuV)} + \text{CL(dBuV)} - \text{Gain(dB)}$$

FI= Reading of the field intensity.

AF= Antenna factor.

CL= Cable loss.

P.S Amplitude is auto calculate in spectrum analyzer.

$$(2) \text{ Actual Amplitude (dBuV/m)} = \text{Amplitude (dBuV)} - \text{Dis(dB)}$$

The FCC specified emission limits were calculated according the EUT operating frequency and by following linear interpolation equations:

(1) For fundamental frequency :

Transmitter Output < +30dBm

(2) For spurious frequency :

Spurious emission limits = fundamental emission limit /10

3.3 Test Equipment List:

Item	Mfr/Brand	Instruments	Serial No.	Model/Type No.	Calibrated Date	Next Cali. Date
1.	HP	Spectrum Analyzer	73412A00110	8591EM	2006/01/17	2007/01/17
2.	HP	Pre Amplifier	2944A08954	8447D	2005/04/14	2006/04/14
3.	HP	Pre Amplifier	3113A05475	8447F	2006/01/10	2007/01/10
4.	R&S	EMI Receiver	881121/010	354.3000.52	2005/12/10	2006/12/10
5.	EMCO	Biconilog Antenna	1184	3142	2006/02/03	2007/02/03
6.	Agilent	Spectrum Analyzer	US39240419	E4407B	2006/02/01	2007/02/01
7.	HP	Pre Amplifier	3008A01463	8449B	2006/02/23	2006/02/23
8.	SCHWARZBECK	Horn Antenna	181	BBHA 9170	2005/07/06	2006/07/06
9.	SCHWARZBECK	Horn Antenna	304	BBHA 9120 D	2005/07/06	2006/07/06

3.4 Test Configuration:

ANTENEX ANT



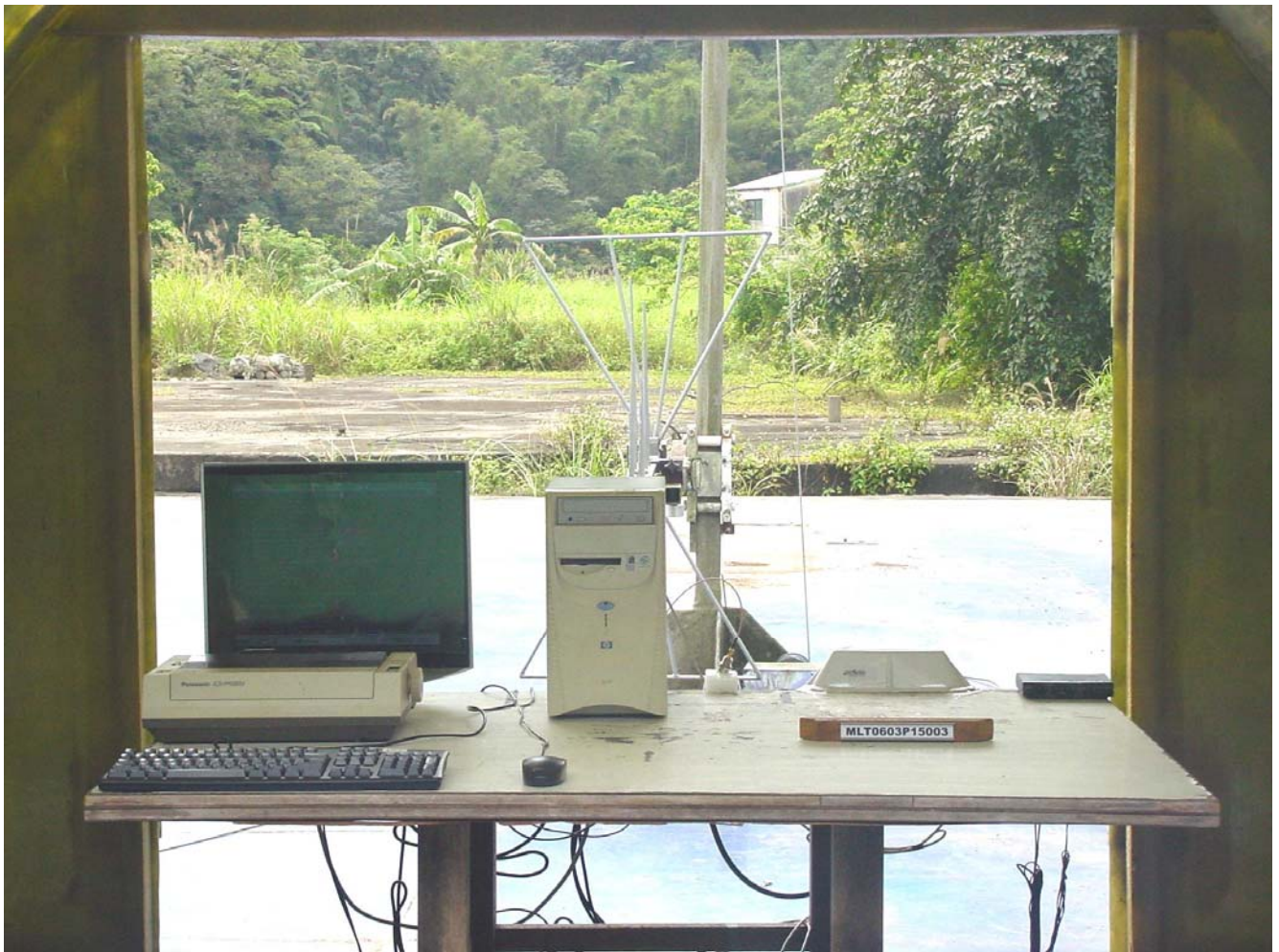
Front View of The Test Configuration

ANTENEX ANT



Rear View of The Test Configuration

STI-CO ANT



Front View of The Test Configuration

STI-CO ANT



Rear View of The Test Configuration

3.5 Test condition:

EUT tested in accordance with the specifications given by the manufacturer , and exercised in the most unfavorable manner.

3.6 Radiated Emissions Limits:

<i>Frequency range (MHz)</i>	<i>Peak(dBuV/m)</i>
30 to 88	40
88 to 216	43.5
216 to 960	46
Above 960	54

3.7 Measurement Data Of Radiated Emissions:

3.7.1 Open Field Radiated Emissions (Subpart B)

The highest peak values of radiated emissions from the EUT at various antenna heights, antenna polarization, EUT orientation , etc. are recorded on the following

Applicant : March Networks Corporation
Model No : 17037
EUT : MODULE 802.11g Wireless Ethernet PCI card
Test Mode : 802.11b (CH11)
Test Date : 03/31/2006

Radiated Emissions (HORIZONTAL)					
Frequency (MHz)	Amplitude (dBUV/m)	Ant. (m)	Table (Degree)	Limits(Class B) (dBUV/m)	Margin (dB)
63.06	24.23	2.5	100	40	-15.77
66.83	26.82	1.0	160	40	-13.18
83.51	22.11	2.7	210	40	-17.89
113.78	21.13	2.2	300	43.5	-22.37
123.18	25.48	1.2	120	43.5	-18.02
144.02	23.59	2.6	210	43.5	-19.91
167.07	23.35	1.2	320	43.5	-20.15
200.01	28.90	1.4	330	43.5	-14.60
233.51	22.96	1.3	310	46	-23.04
501.83	25.04	1.8	250	46	-20.96
599.85	25.01	2	200	46	-20.99

Notes : 1.Margin= Amplitude - Limits
 2.Distance of Measurement : 3 Meter (30-1000MHz)
 3.Height of table for EUT placed: 0.8 Meter.
 4.ANT= Antenna height.
 5.Amplitude= Reading Amplitude –Amplifier gain+ Cable loss
 +Antenna factor
 (Auto calculate in spectrum analyzer)

3.7.2 Open Field Radiated Emissions (Subpart B)

The highest peak values of radiated emissions from the EUT at various antenna heights, antenna polarization, EUT orientation , etc. are recorded on the following.

Applicant : March Networks Corporation
Model No : 17037
EUT : MODULE 802.11g Wireless Ethernet PCI card
Test Mode : 802.11b (CH11)
Test Date : 03/31/2006

Radiated Emissions (VERTICAL)					
Frequency (MHz)	Amplitude (dBuV/m)	Ant. (m)	Table (Degree)	Limits(Class B) (dBuV/m)	Margin (dB)
36.96	20.30	2.1	300	40	-19.70
56.39	19.32	2	280	40	-20.68
72.49	22.81	1.5	260	40	-17.19
79.45	27.99	1	200	40	-12.01
122.80	22.63	1.4	180	43.5	-20.87
167.08	23.30	1	120	43.5	-20.20
200.01	24.89	1.6	300	43.5	-18.61
233.51	25.92	1.4	350	46	-20.08
451.29	24.27	1.2	240	46	-21.73
480.11	22.17	1	270	46	-23.83
500.25	25.19	1.3	320	46	-20.81

Notes : 1.Margin= Amplitude - Limits
 2.Distance of Measurement : 3 Meter (30-1000MHz)
 3.Height of table for EUT placed: 0.8 Meter.
 4.ANT= Antenna height.
 5.Amplitude= Reading Amplitude –Amplifier gain+ Cable loss
 +Antenna factor
 (Auto calculate in spectrum analyzer)

3.7.3 Open Field Radiated Emissions (Subpart B)

The highest peak values of radiated emissions from the EUT at various antenna heights, antenna polarization, EUT orientation , etc. are recorded on the following

Applicant : March Networks Corporation
Model No : 17037
EUT : MODULE 802.11g Wireless Ethernet PCI card
Test Mode : 802.11g (CH01)
Test Date : 03/31/2006

Radiated Emissions (HORIZONTAL)					
Frequency (MHz)	Amplitude (dBuV/m)	Ant. (m)	Table (Degree)	Limits(Class B) (dBuV/m)	Margin (dB)
62.34	23.30	1	260	40	-16.70
66.69	24.68	1.5	330	40	-15.32
80.17	26.66	1.5	150	40	-13.34
117.89	22.41	1	150	43.5	-21.09
146.41	22.14	1	200	43.5	-21.36
167.08	23.32	2	310	43.5	-20.18
200.01	27.91	1.5	300	43.5	-15.59
233.51	24.75	2.5	310	46	-21.25
400.20	23.62	1	240	46	-22.38
500.20	27.03	1.5	240	46	-18.97
600.03	24.10	1	180	46	-21.90

Notes : 1.Margin= Amplitude - Limits
 2.Distance of Measurement : 3 Meter (30-1000MHz)
 3.Height of table for EUT placed: 0.8 Meter.
 4.ANT= Antenna height.
 5.Amplitude= Reading Amplitude –Amplifier gain+ Cable loss
 +Antenna factor
 (Auto calculate in spectrum analyzer)

3.7.4 Open Field Radiated Emissions (Subpart B)

The highest peak values of radiated emissions from the EUT at various antenna heights, antenna polarization, EUT orientation , etc. are recorded on the following.

Applicant : March Networks Corporation
Model No : 17037
EUT : MODULE 802.11g Wireless Ethernet PCI card
Test Mode : 802.11g (CH01)
Test Date : 03/31/2006

Radiated Emissions (VERTICAL)					
Frequency (MHz)	Amplitude (dBUV/m)	Ant. (m)	Table (Degree)	Limits(Class B) (dBUV/m)	Margin (dB)
37.11	21.72	1	260	40	-18.28
55.38	20.85	1.5	310	40	-19.15
61.47	26.06	1	150	40	-13.94
67.41	24.88	1	150	40	-15.12
82.06	29.77	2.5	260	40	-10.23
144.80	23.98	2	310	43.5	-19.52
166.88	25.10	1.5	300	43.5	-18.40
200.03	26.31	1	310	43.5	-17.19
233.51	26.85	1	240	46	-19.15
499.28	27.71	1.5	200	46	-18.29
768.10	27.16	1.5	180	46	-18.84

Notes : 1.Margin= Amplitude - Limits
 2.Distance of Measurement : 3 Meter (30-1000MHz)
 3.Height of table for EUT placed: 0.8 Meter.
 4.ANT= Antenna height.
 5.Amplitude= Reading Amplitude –Amplifier gain+ Cable loss
 +Antenna factor
 (Auto calculate in spectrum analyzer)

3.7.5 Open Field Radiated Emissions (Subpart B)

The highest peak values of radiated emissions from the EUT at various antenna heights, antenna polarization, EUT orientation , etc. are recorded on the following

Applicant : March Networks Corporation
Model No : 17037
EUT : MODULE 802.11g Wireless Ethernet PCI card
Test Mode : 802.11 Super G (CH06)
Test Date : 03/31/2006

Radiated Emissions (HORIZONTAL)					
Frequency (MHz)	Amplitude (dBUV/m)	Ant. (m)	Table (Degree)	Limits(Class B) (dBUV/m)	Margin (dB)
48.56	20.36	1	260	40	-19.64
62.48	31.01	1.5	330	40	-8.99
66.83	27.13	1.5	150	40	-12.87
81.04	27.17	1	150	40	-12.83
109.15	21.77	1	200	43.5	-21.73
113.75	24.03	2	310	43.5	-19.47
147.10	22.57	1.5	300	43.5	-20.93
166.88	24.58	2.5	310	43.5	-18.92
200.06	29.49	1	240	43.5	-14.01
499.28	27.57	1.5	240	46	-18.43
600.13	25.98	1	180	46	-20.02

Notes : 1.Margin= Amplitude - Limits
 2.Distance of Measurement : 3 Meter (30-1000MHz)
 3.Height of table for EUT placed: 0.8 Meter.
 4.ANT= Antenna height.
 5.Amplitude= Reading Amplitude –Amplifier gain+ Cable loss
 +Antenna factor
 (Auto calculate in spectrum analyzer)

3.7.6 Open Field Radiated Emissions (Subpart B)

The highest peak values of radiated emissions from the EUT at various antenna heights, antenna polarization, EUT orientation , etc. are recorded on the following.

Applicant : March Networks Corporation
Model No : 17037
EUT : MODULE 802.11g Wireless Ethernet PCI card
Test Mode : 802.11 Super G (CH06)
Test Date : 03/31/2006

Radiated Emissions (VERTICAL)					
Frequency (MHz)	Amplitude (dBUV/m)	Ant. (m)	Table (Degree)	Limits(Class B) (dBUV/m)	Margin (dB)
50.45	20.05	1	260	40	-19.95
60.02	25.42	1.5	310	40	-14.58
67.41	25.07	1	150	40	-14.93
77.42	27.59	1	150	40	-12.41
167.07	24.27	2.5	260	43.5	-19.23
200.01	25.42	2	310	43.5	-18.08
233.52	29.27	1.5	300	46	-16.73
265.31	26.15	1	310	46	-19.85
480.11	26.68	1	240	46	-19.32
499.58	26.17	1.5	200	46	-19.83
768.01	26.63	1.5	180	46	-19.37

Notes : 1.Margin= Amplitude - Limits
 2.Distance of Measurement : 3 Meter (30-1000MHz)
 3.Height of table for EUT placed: 0.8 Meter.
 4.ANT= Antenna height.
 5.Amplitude= Reading Amplitude –Amplifier gain+ Cable loss
 +Antenna factor
 (Auto calculate in spectrum analyzer)

3.7.7 Open Field Radiated Emissions (Subpart C)

The highest peak values of radiated emissions from the EUT at various antenna heights, antenna polarization, EUT orientation , etc. are recorded on the following

Applicant : March Networks Corporation
Model No : 17037
EUT : MODULE 802.11g Wireless Ethernet PCI card
Test Mode : 802.11b (CH01)
Test Date : 03/27/2006

Radiated Emissions (HORIZONTAL)								
Frequency (MHz)	Amplitude (dBuV/m)	Ant. (m)	Table (Degree)	Duty (dB)	Dist (dB)	Actual Amp (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1201.5	43.63 PK	1	300	0	9.54	34.09	74.00	-39.91
1600.0	34.75 PK	1	360	0	9.54	25.21	74.00	-48.79
2612.5	42.11 PK	1	320	0	9.54	32.57	74.00	-41.43
4819.5	31.97 PK	1	250	0	9.54	22.43	74.00	-51.57
6627.0	42.53 PK	1	220	0	9.54	32.99	74.00	-41.01
13920.0	42.80 PK	1	280	0	9.54	33.26	74.00	-40.74
20040.0	41.39 PK	1	300	0	9.54	31.85	74.00	-42.15

Notes : 1.Margin= Amplitude - Limits

2.Distance of Measurement : 1 Meter (1G-26.5GHz)

3.Height of table for EUT placed: 0.8 Meter.

4.ANT= Antenna height.

5.Duty= Duty cycle correction factor.

6.Dist= Distance extrapolation factor.

7.Amplitude= Reading Amplitude – Amplifier gain+ Cable loss
+Antenna factor

(Auto calculate in spectrum analyzer)

8.Actual Amp= Amplitude – Duty – Dist.

9.The other emission levels were very low against the limit.



The highest peak values of radiated emissions from the EUT at various antenna heights, antenna polarization, EUT orientation , etc. are recorded on the following.

Applicant : March Networks Corporation
Model No : 17037
EUT : MODULE 802.11g Wireless Ethernet PCI card
Test Mode : 802.11b (CH01)
Test Date : 03/27/2006

Radiated Emissions (VERTICAL)								
Frequency (MHz)	Amplitude (dBuV/m)	Ant. (m)	Table (Degree)	Duty (dB)	Dist (dB)	Actual Amp (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1000.0	45.24 PK	1	220	0	9.54	35.70	74.00	-38.30
1202.5	39.41 PK	1	130	0	9.54	29.87	74.00	-44.13
4819.5	33.67 PK	1	250	0	9.54	24.13	74.00	-49.87
6626.5	37.45 PK	1	210	0	9.54	27.91	74.00	-46.09
9652.0	46.53 PK	1	360	0	9.54	36.99	74.00	-37.01
13836.0	43.05 PK	1	300	0	9.54	33.51	74.00	-40.49
19865.0	41.23 PK	1	320	0	9.54	31.69	74.00	-42.31

Notes : 1.Margin= Amplitude - Limits

2.Distance of Measurement : 1 Meter (1G-26.5GHz)

3.Height of table for EUT placed: 0.8 Meter.

4.ANT= Antenna height.

5.Duty= Duty cycle correction factor.

6.Dis= Distance extrapolation factor.

$$7. \text{Amplitude} = \text{Reading Amplitude} - \text{Amplifier gain} + \text{Cable loss} + \text{Antenna factor}$$

(Auto calculate in spectrum analyzer)

8. Actual Amp= Amplitude – Duty – Dis.

9.The other emission levels were very low against the limit.



The highest peak values of radiated emissions from the EUT at various antenna heights, antenna polarization, EUT orientation , etc. are recorded on the following

Applicant : March Networks Corporation
Model No : 17037
EUT : MODULE 802.11g Wireless Ethernet PCI card
Test Mode : 802.11b (CH06)
Test Date : 03/27/2006

Radiated Emissions (HORIZONTAL)								
Frequency (MHz)	Amplitude (dBuV/m)	Ant. (m)	Table (Degree)	Duty (dB)	Dist (dB)	Actual Amp (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1000.0	41.67 PK	1	280	0	9.54	32.13	74.00	-41.87
1200.0	34.95 PK	1	300	0	9.54	25.41	74.00	-48.59
1600.0	34.18 PK	1	260	0	9.54	24.64	74.00	-49.36
2982.5	44.73 PK	1	240	0	9.54	35.19	74.00	-38.81
4875.5	46.95 PK	1	160	0	9.54	37.41	74.00	-36.59
6457.5	36.64 PK	1	300	0	9.54	27.10	74.00	-46.90
14207.0	42.88 PK	1	340	0	9.54	33.34	74.00	-40.66

Notes :

1. Margin = Amplitude - Limits
2. Distance of Measurement : 1 Meter (1G-26.5GHz)
3. Height of table for EUT placed: 0.8 Meter.
4. ANT = Antenna height.
5. Duty = Duty cycle correction factor.
6. Dis = Distance extrapolation factor.
7. Amplitude = Reading Amplitude – Amplifier gain + Cable loss
+ Antenna factor
(Auto calculate in spectrum analyzer)
8. Actual Amp = Amplitude – Duty – Dis.
9. The other emission levels were very low against the limit.



The highest peak values of radiated emissions from the EUT at various antenna heights, antenna polarization, EUT orientation , etc. are recorded on the following.

Applicant : March Networks Corporation
Model No : 17037
EUT : MODULE 802.11g Wireless Ethernet PCI card
Test Mode : 802.11b (CH06)
Test Date : 03/27/2006

Radiated Emissions (VERTICAL)								
Frequency (MHz)	Amplitude (dBuV/m)	Ant. (m)	Table (Degree)	Duty (dB)	Dist (dB)	Actual Amp (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1000.0	46.34 PK	1	250	0	9.54	36.80	74.00	-37.20
1200.0	42.81 PK	1	180	0	9.54	33.27	74.00	-40.73
4874.5	47.02 PK	1	300	0	9.54	37.48	74.00	-36.52
6626.5	36.74 PK	1	320	0	9.54	27.20	74.00	-46.80
9751.5	44.55 PK	1	280	0	9.54	35.01	74.00	-38.99
14186.0	43.16 PK	1	260	0	9.54	33.62	74.00	-40.38
20190.0	41.75 PK	1	250	0	9.54	32.21	74.00	-41.79

Notes :

1. Margin = Amplitude - Limits
2. Distance of Measurement : 1 Meter (1G-26.5GHz)
3. Height of table for EUT placed: 0.8 Meter.
4. ANT = Antenna height.
5. Duty = Duty cycle correction factor.
6. Dis = Distance extrapolation factor.
7. Amplitude = Reading Amplitude – Amplifier gain + Cable loss
+ Antenna factor
(Auto calculate in spectrum analyzer)
8. Actual Amp = Amplitude – Duty – Dis.
9. The other emission levels were very low against the limit.

3.7.11 Open Field Radiated Emissions (Subpart C)

The highest peak values of radiated emissions from the EUT at various antenna heights, antenna polarization, EUT orientation , etc. are recorded on the following

Applicant : March Networks Corporation
Model No : 17037
EUT : MODULE 802.11g Wireless Ethernet PCI card
Test Mode : 802.11b (CH11)
Test Date : 03/27/2006

Radiated Emissions (HORIZONTAL)								
Frequency (MHz)	Amplitude (dBuV/m)	Ant. (m)	Table (Degree)	Duty (dB)	Dist (dB)	Actual Amp (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1200.0	35.58 PK	1	240	0	9.54	26.04	74.00	-47.96
1395.0	35.54 PK	1	300	0	9.54	26.00	74.00	-48.00
2982.5	44.25 PK	1	320	0	9.54	34.71	74.00	-39.29
4925.5	42.56 PK	1	350	0	9.54	33.02	74.00	-40.98
6457.5	36.19 PK	1	310	0	9.54	26.65	74.00	-47.35
13682.0	43.21 PK	1	120	0	9.54	33.67	74.00	-40.33
20005.0	41.23 PK	1	140	0	9.54	31.69	74.00	-42.31

- Notes :
- 1.Margin= Amplitude - Limits
 - 2.Distance of Measurement : 1 Meter (1G-26.5GHz)
 - 3.Height of table for EUT placed: 0.8 Meter.
 - 4.ANT= Antenna height.
 - 5.Duty= Duty cycle correction factor.
 - 6.Dis= Distance extrapolation factor.
 - 7.Amplitude= Reading Amplitude – Amplifier gain+ Cable loss
+Antenna factor
(Auto calculate in spectrum analyzer)
 - 8.Actual Amp= Amplitude – Duty – Dis.
 - 9.The other emission levels were very low against the limit.

3.7.12 Open Field Radiated Emissions (Subpart C)

The highest peak values of radiated emissions from the EUT at various antenna heights, antenna polarization, EUT orientation , etc. are recorded on the following.

Applicant : March Networks Corporation
Model No : 17037
EUT : MODULE 802.11g Wireless Ethernet PCI card
Test Mode : 802.11b (CH11)
Test Date : 03/27/2006

Radiated Emissions (VERTICAL)								
Frequency (MHz)	Amplitude (dBuV/m)	Ant. (m)	Table (Degree)	Duty (dB)	Dist (dB)	Actual Amp (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1000.0	45.57 PK	1	200	0	9.54	36.03	74.00	-37.97
1200.0	43.74 PK	1	340	0	9.54	34.20	74.00	-39.80
4917.0	40.51 PK	1	320	0	9.54	30.97	74.00	-43.03
6457.0	43.58 PK	1	100	0	9.54	34.04	74.00	-39.96
9849.5	45.38 PK	1	180	0	9.54	35.84	74.00	-38.16
14326.0	43.12 PK	1	200	0	9.54	33.58	74.00	-40.42
20430.0	41.15 PK	1	150	0	9.54	31.61	74.00	-42.39

Notes : 1.Margin= Amplitude - Limits

2.Distance of Measurement : 1 Meter (1G-26.5GHz)

3.Height of table for EUT placed: 0.8 Meter.

4.ANT= Antenna height.

5.Duty= Duty cycle correction factor.

6.Dis= Distance extrapolation factor.

7.Amplitude= Reading Amplitude – Amplifier gain+ Cable loss
+Antenna factor

(Auto calculate in spectrum analyzer)

8.Actual Amp= Amplitude – Duty – Dis.

9.The other emission levels were very low against the limit.



The highest peak values of radiated emissions from the EUT at various antenna heights, antenna polarization, EUT orientation , etc. are recorded on the following

```

Applicant      : March Networks Corporation
Model No       : 17037
EUT            : MODULE 802.11g Wireless Ethernet PCI card
Test Mode      : 802.11g (CH01)
Test Date      : 03/27/2006

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Radiated Emissions (HORIZONTAL)								
Frequency (MHz)	Amplitude (dBuV/m)	Ant. (m)	Table (Degree)	Duty (dB)	Dist (dB)	Actual Amp (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1000.0	37.82 PK	1	120	0	9.54	28.28	74.00	-45.72
1200.0	34.14 PK	1	140	0	9.54	24.60	74.00	-49.40
1400.0	36.13 PK	1	300	0	9.54	26.59	74.00	-47.41
1600.0	35.34 PK	1	250	0	9.54	25.80	74.00	-48.20
3050.0	43.70 PK	1	210	0	9.54	34.16	74.00	-39.84
6431.5	33.40 PK	1	330	0	9.54	23.86	74.00	-50.14
13675.0	43.39 PK	1	350	0	9.54	33.85	74.00	-40.15

Notes :

1. Margin = Amplitude - Limits
2. Distance of Measurement : 1 Meter (1G-26.5GHz)
3. Height of table for EUT placed: 0.8 Meter.
4. ANT = Antenna height.
5. Duty = Duty cycle correction factor.
6. Dis = Distance extrapolation factor.
7. Amplitude = Reading Amplitude – Amplifier gain + Cable loss
+ Antenna factor
(Auto calculate in spectrum analyzer)
8. Actual Amp = Amplitude – Duty – Dis.
9. The other emission levels were very low against the limit.

3.7.14 Open Field Radiated Emissions (Subpart C)

The highest peak values of radiated emissions from the EUT at various antenna heights, antenna polarization, EUT orientation , etc. are recorded on the following.

Applicant : March Networks Corporation
Model No : 17037
EUT : MODULE 802.11g Wireless Ethernet PCI card
Test Mode : 802.11g (CH01)
Test Date : 03/27/2006

Radiated Emissions (VERTICAL)								
Frequency (MHz)	Amplitude (dBuV/m)	Ant. (m)	Table (Degree)	Duty (dB)	Dist (dB)	Actual Amp (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1000.0	46.20 PK	1	290	0	9.54	36.66	74.00	-37.34
1200.0	41.07 PK	1	260	0	9.54	31.53	74.00	-42.47
3050.0	43.82 PK	1	100	0	9.54	34.28	74.00	-39.72
4825.0	43.65 PK	1	320	0	9.54	34.11	74.00	-39.89
7107.5	35.17 PK	1	240	0	9.54	25.63	74.00	-48.37
14011.0	43.51 PK	1	160	0	9.54	33.97	74.00	-40.03
20180.0	41.85 PK	1	300	0	9.54	32.31	74.00	-41.69

Notes : 1.Margin= Amplitude - Limits

2.Distance of Measurement : 1 Meter (1G-26.5GHz)

3.Height of table for EUT placed: 0.8 Meter.

4.ANT= Antenna height.

5.Duty= Duty cycle correction factor.

6.Dis= Distance extrapolation factor.

7.Amplitude= Reading Amplitude – Amplifier gain+ Cable loss
+Antenna factor

(Auto calculate in spectrum analyzer)

8.Actual Amp= Amplitude – Duty – Dis.

9.The other emission levels were very low against the limit.

3.7.15 Open Field Radiated Emissions (Subpart C)

The highest peak values of radiated emissions from the EUT at various antenna heights, antenna polarization, EUT orientation , etc. are recorded on the following

Applicant : March Networks Corporation
Model No : 17037
EUT : MODULE 802.11g Wireless Ethernet PCI card
Test Mode : 802.11g (CH06)
Test Date : 03/27/2006

Radiated Emissions (HORIZONTAL)								
Frequency (MHz)	Amplitude (dBuV/m)	Ant. (m)	Table (Degree)	Duty (dB)	Dist (dB)	Actual Amp (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1000.0	40.73 PK	1	360	0	9.54	31.19	74.00	-42.81
1200.0	34.65 PK	1	250	0	9.54	25.11	74.00	-48.89
1600.0	34.62 PK	1	270	0	9.54	25.08	74.00	-48.92
3052.5	43.78 PK	1	330	0	9.54	34.24	74.00	-39.76
6217.0	34.45 PK	1	130	0	9.54	24.91	74.00	-49.09
13906.0	43.52 PK	1	300	0	9.54	33.98	74.00	-40.02
20025.0	41.51 PK	1	210	0	9.54	31.97	74.00	-42.03

- Notes :
- 1.Margin= Amplitude - Limits
 - 2.Distance of Measurement : 1 Meter (1G-26.5GHz)
 - 3.Height of table for EUT placed: 0.8 Meter.
 - 4.ANT= Antenna height.
 - 5.Duty= Duty cycle correction factor.
 - 6.Dis= Distance extrapolation factor.
 - 7.Amplitude= Reading Amplitude – Amplifier gain+ Cable loss
+Antenna factor
(Auto calculate in spectrum analyzer)
 - 8.Actual Amp= Amplitude – Duty – Dis.
 - 9.The other emission levels were very low against the limit.



The highest peak values of radiated emissions from the EUT at various antenna heights, antenna polarization, EUT orientation , etc. are recorded on the following.

```

Applicant      : March Networks Corporation
Model No       : 17037
EUT            : MODULE 802.11g Wireless Ethernet PCI card
Test Mode      : 802.11g (CH06)
Test Date      : 03/27/2006

```

Radiated Emissions (VERTICAL)								
Frequency (MHz)	Amplitude (dBuV/m)	Ant. (m)	Table (Degree)	Duty (dB)	Dist (dB)	Actual Amp (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1000.0	48.45 PK	1	220	0	9.54	38.91	74.00	-35.09
1200.0	43.81 PK	1	250	0	9.54	34.27	74.00	-39.73
3052.5	43.90 PK	1	100	0	9.54	34.36	74.00	-39.64
4876.0	44.22 PK	1	320	0	9.54	34.68	74.00	-39.32
8869.0	37.39 PK	1	80	0	9.54	27.85	74.00	-46.15
12037.0	41.42 PK	1	270	0	9.54	31.88	74.00	-42.12
20040.0	41.80 PK	1	240	0	9.54	32.26	74.00	-41.74

Notes :

- 1.Margin= Amplitude - Limits
- 2.Distance of Measurement : 1 Meter (1G-26.5GHz)
- 3.Height of table for EUT placed: 0.8 Meter.
- 4.ANT= Antenna height.
- 5.Duty= Duty cycle correction factor.
- 6.Dis= Distance extrapolation factor.
- 7.Amplitude= Reading Amplitude – Amplifier gain+ Cable loss
+Antenna factor
(Auto calculate in spectrum analyzer)
- 8.Actual Amp= Amplitude – Duty – Dis.
- 9.The other emission levels were very low against the limit.

3.7.17 Open Field Radiated Emissions (Subpart C)

The highest peak values of radiated emissions from the EUT at various antenna heights, antenna polarization, EUT orientation , etc. are recorded on the following

Applicant : March Networks Corporation
Model No : 17037
EUT : MODULE 802.11g Wireless Ethernet PCI card
Test Mode : 802.11g (CH11)
Test Date : 03/27/2006

Radiated Emissions (HORIZONTAL)								
Frequency (MHz)	Amplitude (dBuV/m)	Ant. (m)	Table (Degree)	Duty (dB)	Dist (dB)	Actual Amp (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1000.0	39.96 PK	1	300	0	9.54	30.42	74.00	-43.58
3050.0	44.01 PK	1	320	0	9.54	34.47	74.00	-39.53
4924.5	45.02 PK	1	230	0	9.54	35.48	74.00	-38.52
6217.0	41.22 PK	1	170	0	9.54	31.68	74.00	-42.32
9851.0	43.66 PK	1	200	0	9.54	34.12	74.00	-39.88
14550.0	44.11 PK	1	250	0	9.54	34.57	74.00	-39.43
19715.0	40.78 PK	1	310	0	9.54	31.24	74.00	-42.76

- Notes :
- 1.Margin= Amplitude - Limits
 - 2.Distance of Measurement : 1 Meter (1G-26.5GHz)
 - 3.Height of table for EUT placed: 0.8 Meter.
 - 4.ANT= Antenna height.
 - 5.Duty= Duty cycle correction factor.
 - 6.Dis= Distance extrapolation factor.
 - 7.Amplitude= Reading Amplitude – Amplifier gain+ Cable loss
+Antenna factor
(Auto calculate in spectrum analyzer)
 - 8.Actual Amp= Amplitude – Duty – Dis.
 - 9.The other emission levels were very low against the limit.

3.7.18 Open Field Radiated Emissions (Subpart C)

The highest peak values of radiated emissions from the EUT at various antenna heights, antenna polarization, EUT orientation , etc. are recorded on the following.

Applicant : March Networks Corporation
Model No : 17037
EUT : MODULE 802.11g Wireless Ethernet PCI card
Test Mode : 802.11g (CH11)
Test Date : 03/27/2006

Radiated Emissions (VERTICAL)								
Frequency (MHz)	Amplitude (dBuV/m)	Ant. (m)	Table (Degree)	Duty (dB)	Dist (dB)	Actual Amp (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1000.0	44.44 PK	1	200	0	9.54	34.90	74.00	-39.10
1200.0	39.78 PK	1	90	0	9.54	30.24	74.00	-43.76
4926.5	41.82 PK	1	320	0	9.54	32.28	74.00	-41.72
6022.0	41.10 PK	1	180	0	9.54	31.56	74.00	-42.44
7388.5	43.69 PK	1	100	0	9.54	34.15	74.00	-39.85
13913.0	42.50 PK	1	340	0	9.54	32.96	74.00	-41.04
19905.0	41.07 PK	1	270	0	9.54	31.53	74.00	-42.47

Notes : 1.Margin= Amplitude - Limits

2.Distance of Measurement : 1 Meter (1G-26.5GHz)

3.Height of table for EUT placed: 0.8 Meter.

4.ANT= Antenna height.

5.Duty= Duty cycle correction factor.

6.Dis= Distance extrapolation factor.

7.Amplitude= Reading Amplitude – Amplifier gain+ Cable loss
+Antenna factor

(Auto calculate in spectrum analyzer)

8.Actual Amp= Amplitude – Duty – Dis.

9.The other emission levels were very low against the limit.



The highest peak values of radiated emissions from the EUT at various antenna heights, antenna polarization, EUT orientation , etc. are recorded on the following

Applicant : March Networks Corporation
Model No : 17037
EUT : MODULE 802.11g Wireless Ethernet PCI card
Test Mode : 802.11 Super G (CH06)
Test Date : 03/27/2006

Radiated Emissions (HORIZONTAL)								
Frequency (MHz)	Amplitude (dBuV/m)	Ant. (m)	Table (Degree)	Duty (dB)	Dist (dB)	Actual Amp (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1000.0	41.04 PK	1	300	0	9.54	31.50	74.00	-42.50
3052.0	44.07 PK	1	310	0	9.54	34.53	74.00	-39.47
4876.0	45.02 PK	1	120	0	9.54	35.48	74.00	-38.52
7731.5	45.75 PK	1	170	0	9.54	36.21	74.00	-37.79
9750.5	44.83 PK	1	250	0	9.54	35.29	74.00	-38.71
13780.0	42.92 PK	1	360	0	9.54	33.38	74.00	-40.62
20175.0	41.20 PK	1	140	0	9.54	31.66	74.00	-42.34

Notes :

1. Margin = Amplitude - Limits
2. Distance of Measurement : 1 Meter (1G-26.5GHz)
3. Height of table for EUT placed: 0.8 Meter.
4. ANT = Antenna height.
5. Duty = Duty cycle correction factor.
6. Dis = Distance extrapolation factor.
7. Amplitude = Reading Amplitude – Amplifier gain + Cable loss
+ Antenna factor
(Auto calculate in spectrum analyzer)
8. Actual Amp = Amplitude – Duty – Dis.
9. The other emission levels were very low against the limit.

3.7.20 Open Field Radiated Emissions (Subpart C)

The highest peak values of radiated emissions from the EUT at various antenna heights, antenna polarization, EUT orientation , etc. are recorded on the following.

Applicant : March Networks Corporation
Model No : 17037
EUT : MODULE 802.11g Wireless Ethernet PCI card
Test Mode : 802.11 Super G (CH06)
Test Date : 03/27/2006

Radiated Emissions (VERTICAL)								
Frequency (MHz)	Amplitude (dBUV/m)	Ant. (m)	Table (Degree)	Duty (dB)	Dist (dB)	Actual Amp (dBUV/m)	Limit (dBUV/m)	Margin (dB)
1000.0	46.78 PK	1	210	0	9.54	37.24	74.00	-36.76
1200.0	43.16 PK	1	290	0	9.54	33.62	74.00	-40.38
4925.0	45.88 PK	1	300	0	9.54	36.34	74.00	-37.66
7140.0	45.56 PK	1	310	0	9.54	36.02	74.00	-37.98
9749.5	42.77 PK	1	270	0	9.54	33.23	74.00	-40.77
13857.0	43.11 PK	1	190	0	9.54	33.57	74.00	-40.43
20615.0	41.97 PK	1	250	0	9.54	32.43	74.00	-41.57

- Notes :*
- 1.Margin= Amplitude - Limits
 - 2.Distance of Measurement : 1 Meter (1G-26.5GHz)
 - 3.Height of table for EUT placed: 0.8 Meter.
 - 4.ANT= Antenna height.
 - 5.Duty= Duty cycle correction factor.
 - 6.Dis= Distance extrapolation factor.
 - 7.Amplitude= Reading Amplitude – Amplifier gain+ Cable loss
+Antenna factor
(Auto calculate in spectrum analyzer)
 - 8.Actual Amp= Amplitude – Duty – Dis.
 - 9.The other emission levels were very low against the limit.

IV. Maximum Conducted Output Power Requirements

4.1 Test Condition & Setup :

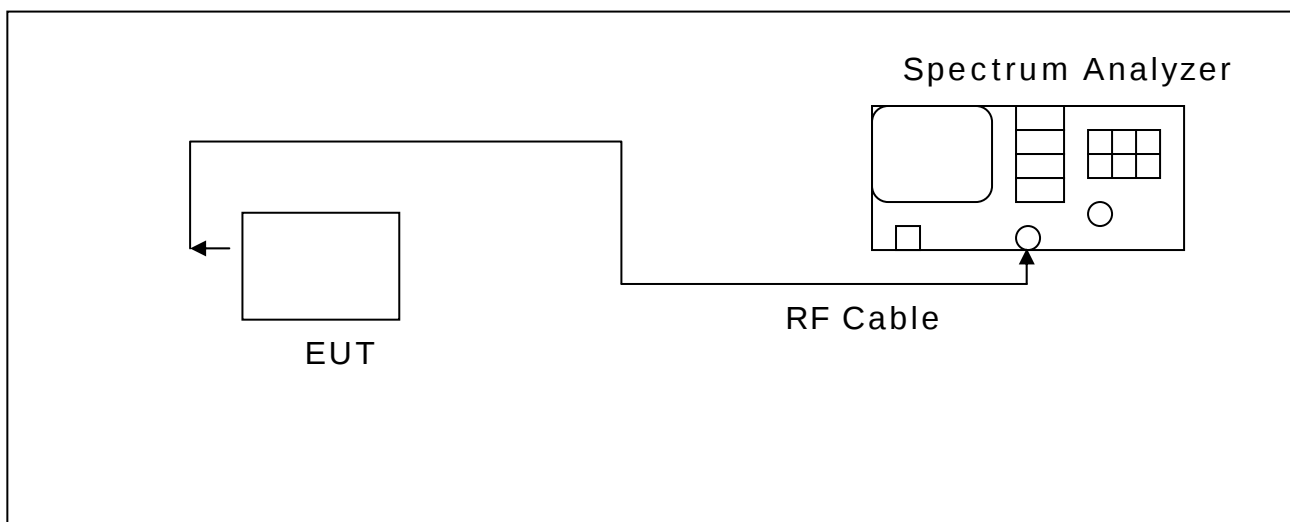
The tests below are run with the EUT's transmitter set at high power in TDD mode. A RJ-45 port from a computer to the EUT is needed to force selection of output power level and channel number. While testing, EUT was set to transmit continuously. Remove the Subjective device's antenna and connect the RF output port to spectrum analyzer. The maximum peak output power shall not exceed 1 watt.

Use a direct connection between the antenna port of transmitter and the spectrum Analyzer, for prevent the spectrum analyzer input attenuation 40-50 dB. Set the RBW Bandwidth of the emission or use a channel power meter mode .

For antennas with gains of 6 dBi or less , maximum allowed transmitter output is 1 watt (+30 dBm). For antennas with gains greater than 6 dBi, transmitter output level must be decreased by an amount equal to $(\text{GAIN} - 6)/3$ dBm.

The antenna port of the EUT was connected to the input of a power meter. Power was read directly and cable loss correction was added to the reading to obtain power at the EUT antenna terminals.

4.2 Test Instruments Configuration:



4.3 Test Equipment List:

Item	Mfr/Brand	Instruments	Serial No.	Model/Type No.	Calibrated Date	Next Cali. Date
1.	ADVANTEST	Spectrum Analyzer	91780529	R3131	2006/01/17	2007/01/17

4.4 Test Result:

802.11b

Frequency (MHz)	Output(dBm)	Required Limit
2412	17.11	<30dBm
2437	16.67	<30dBm
2462	16.84	<30dBm

802.11g

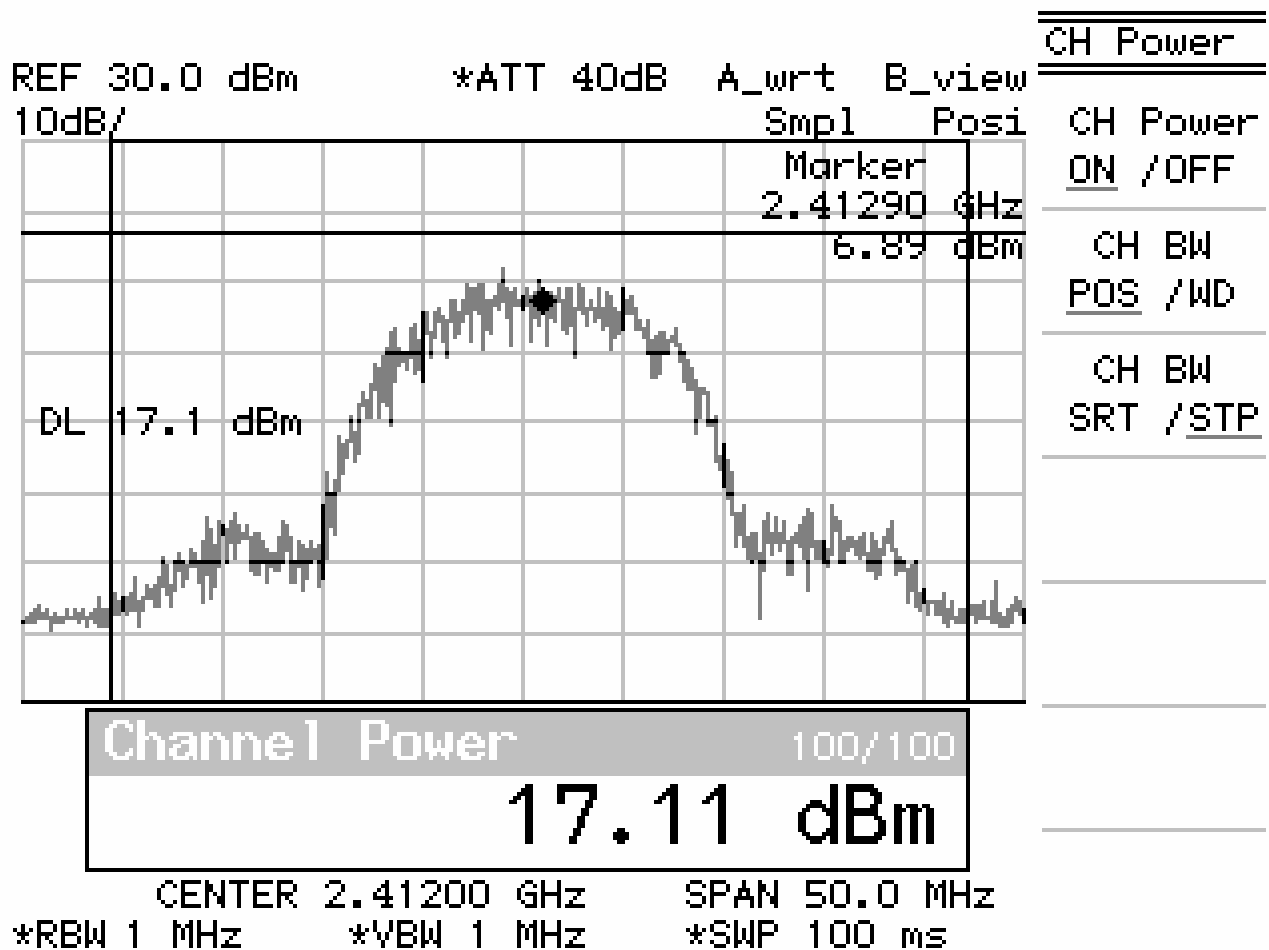
Frequency (MHz)	Output(dBm)	Required Limit
2412	13.46	<30dBm
2437	13.31	<30dBm
2462	13.32	<30dBm

Note :Test Graphs See next page.

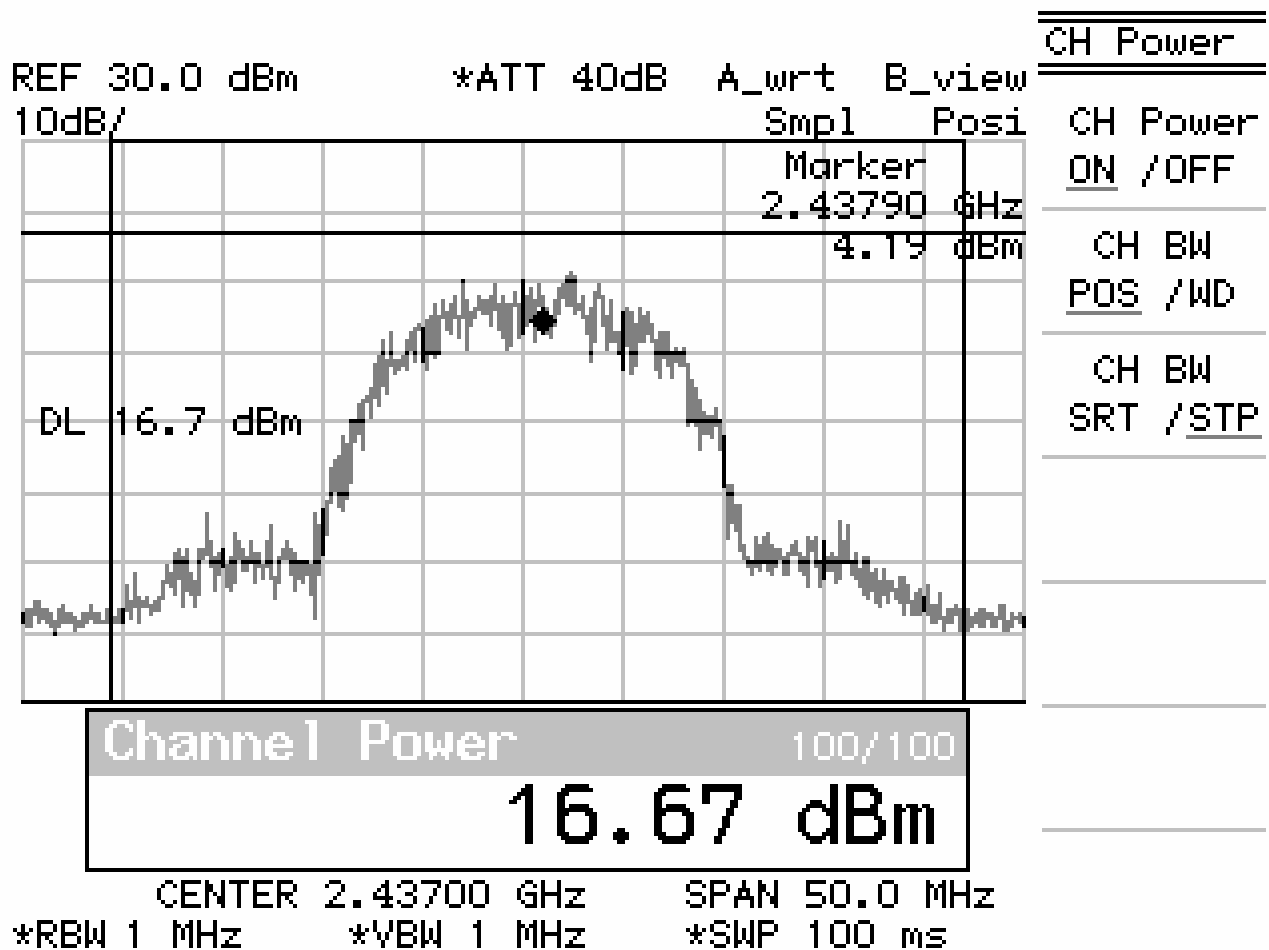
802.11 Super G

Frequency (MHz)	Output(dBm)	Required Limit
2437	12.93	<30dBm

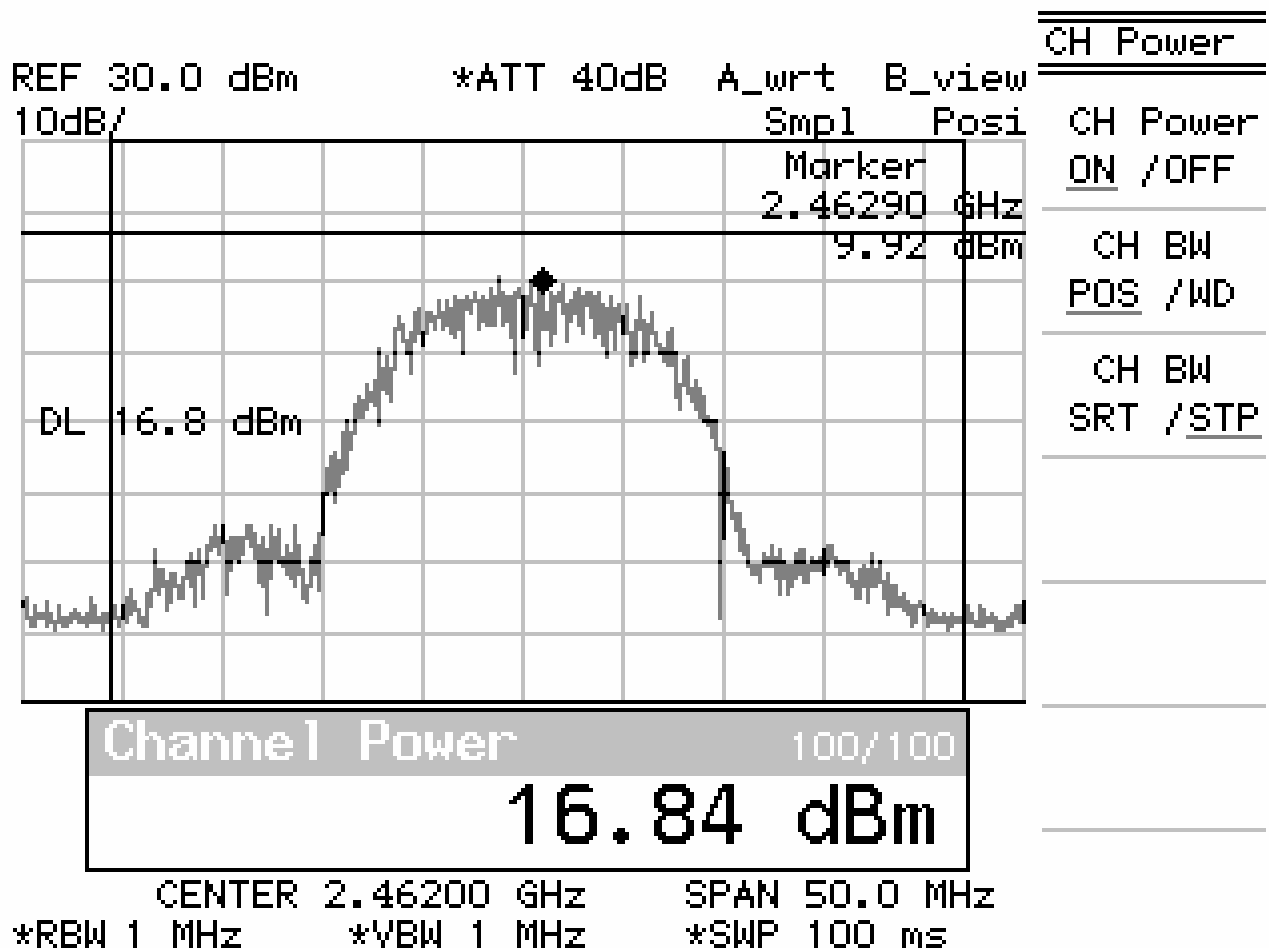
802.11b (2412MHz)



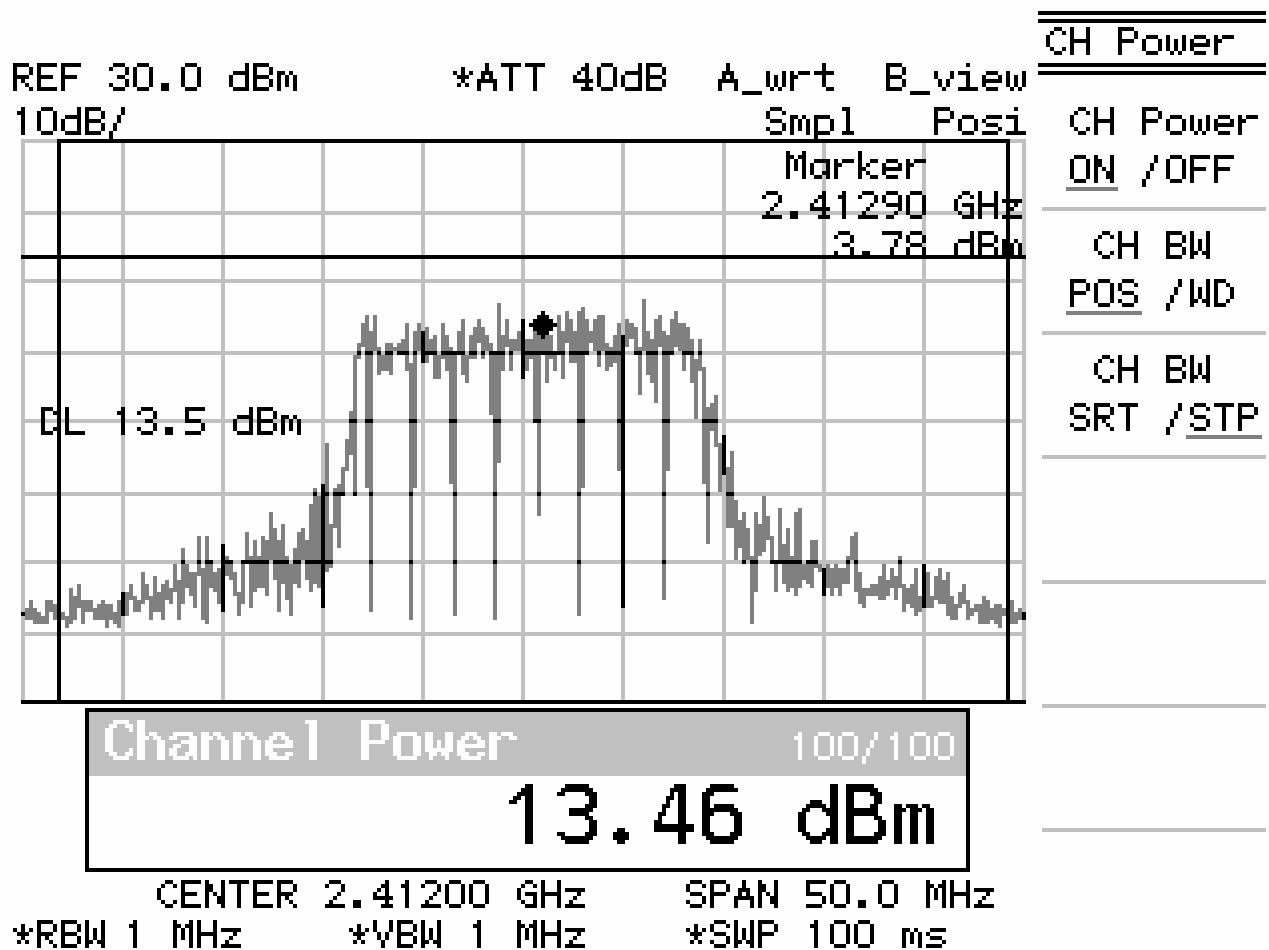
802.11b (2437MHz)



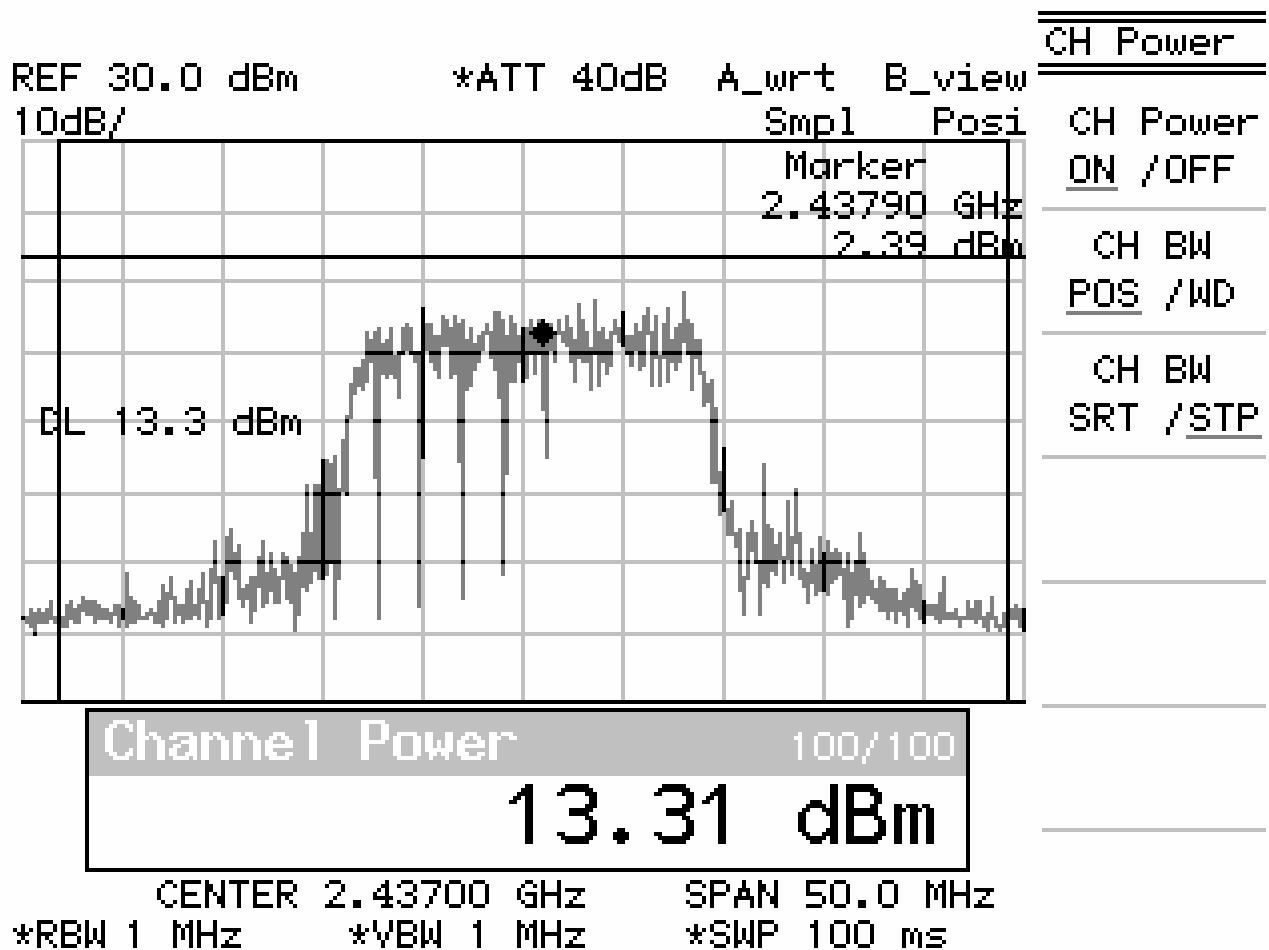
1b (2462MHz)



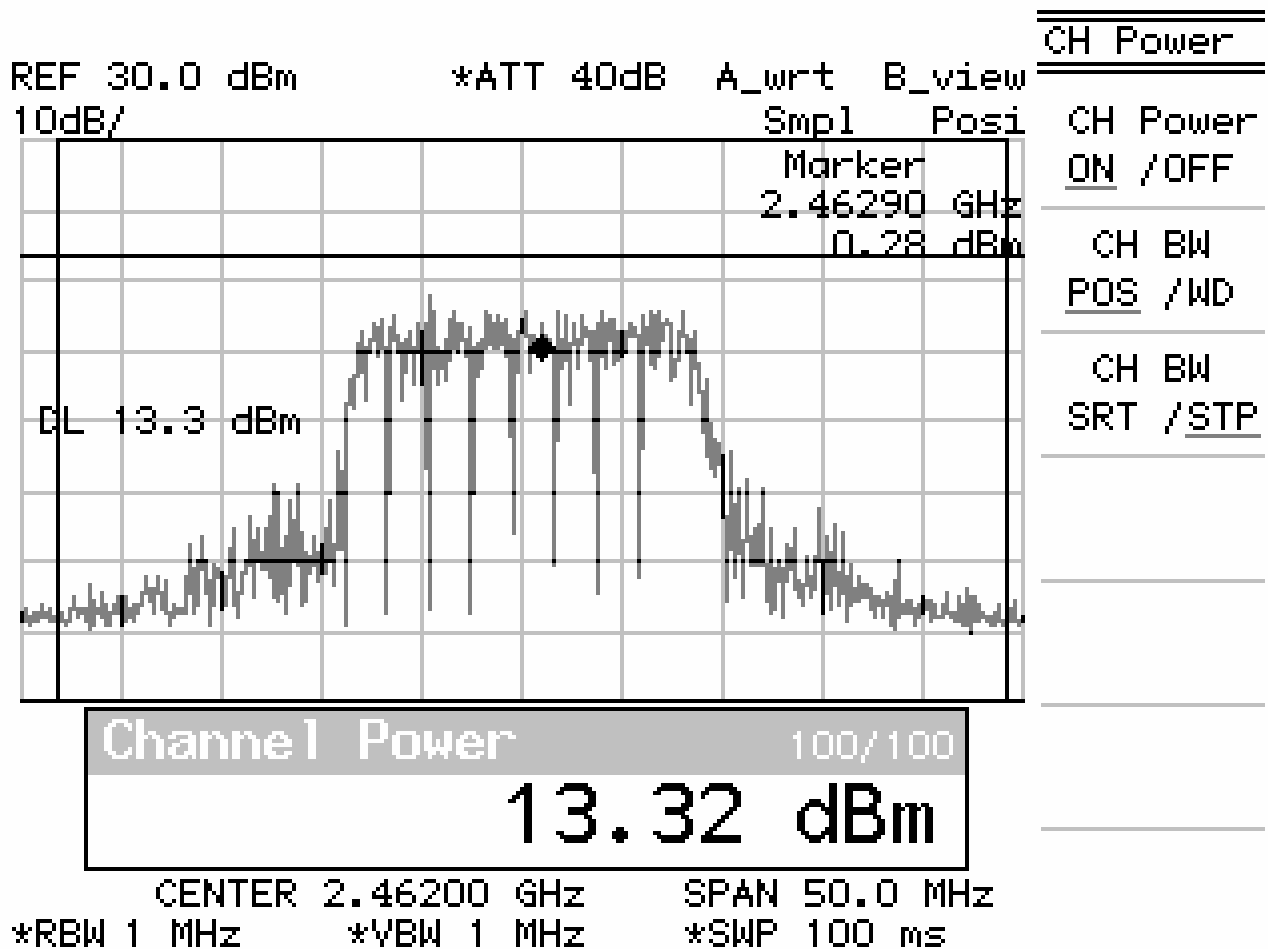
802.11g (2412MHz)



802.11g (2437MHz)



802.11g (2462MHz)

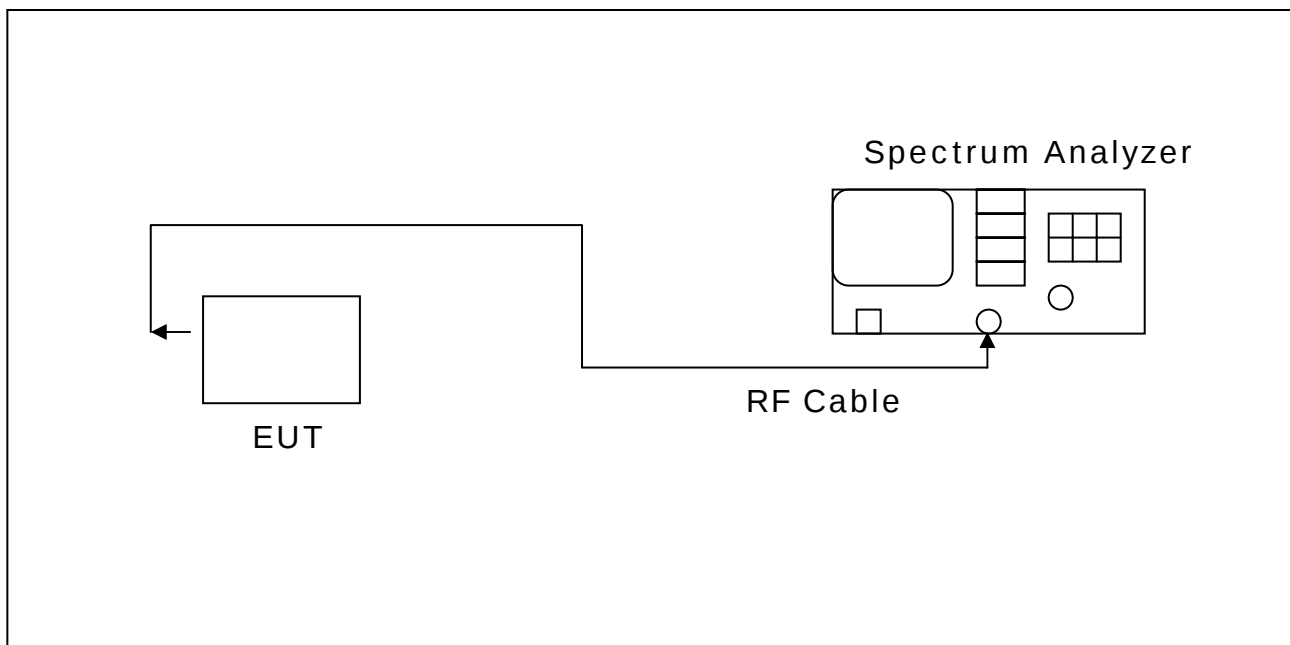


V. Minimum 6dB RF Bandwidth Requirements

5.1 Test Condition & Setup :

The antenna port of the EUT was connected to the input of a spectrum analyzer. Analyzer RES BW was set to 100 kHz. For each RF output channel investigated, the spectrum analyzer center frequency was set to the channel carrier. A PEAK output reading was taken, a DISPLAY line was drawn 6 dB lower than PEAK level. The 6 dB bandwidth was determined from where the channel output spectrum intersected the display line. The test was performed at 3 channels (Channel 1, 6,11)

5.2 Test Instruments Configuration:



5.3 Test Equipment List:

Item	Mfr/Brand	Instruments	Serial No.	Model/Type No.	Calibrated Date	Next Cali. Date
1.	ADVANTEST	Spectrum Analyzer	91780529	R3131	2006/01/17	2007/01/17

5.4 Test Result:

802.11b

Frequency (MHz)	Min. 6dB Bandwidth (MHz)	Required Limit
2412	11.60	>500KHz
2437	11.90	>500KHz
2462	11.60	>500KHz

802.11g

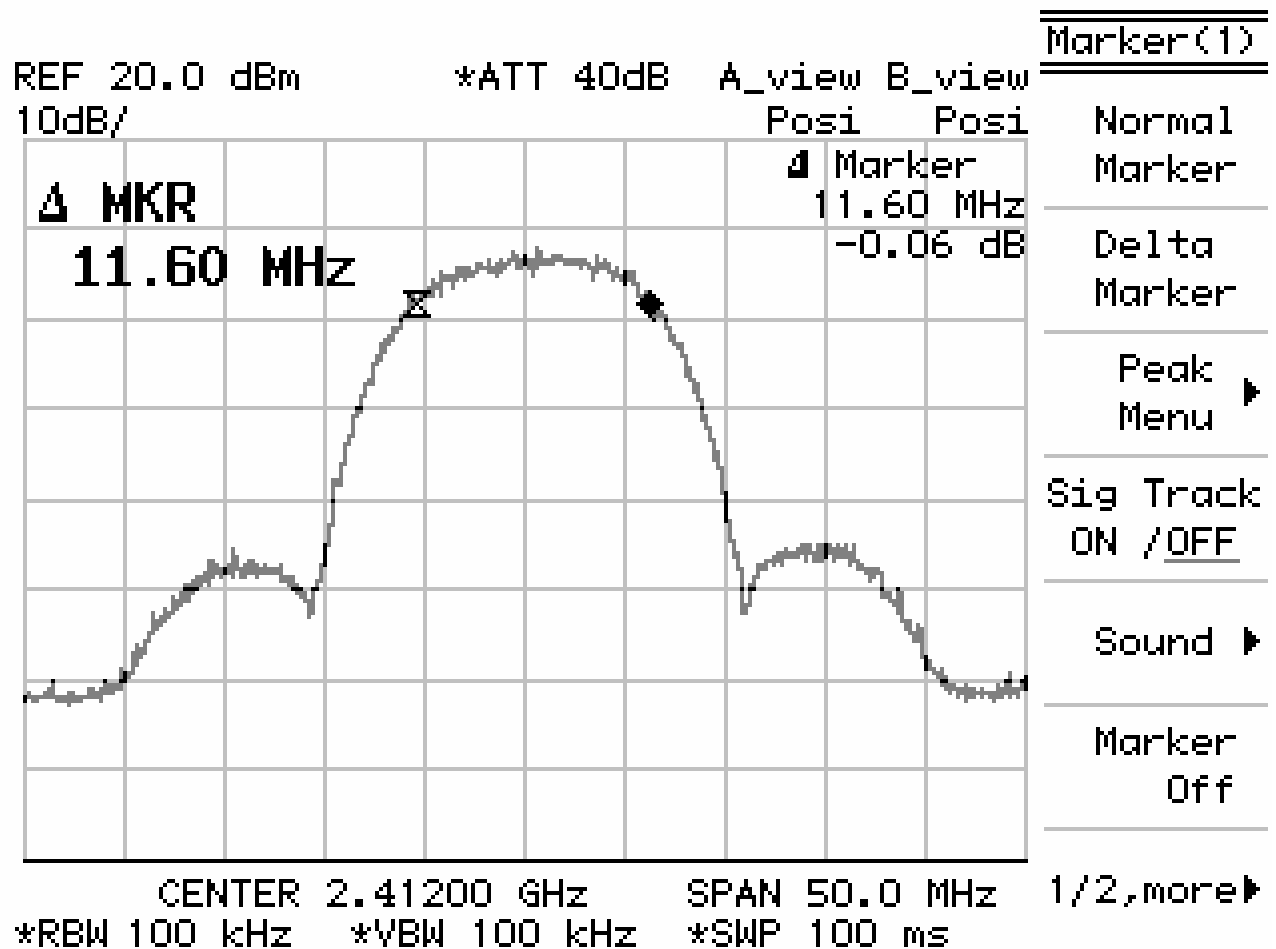
Frequency (MHz)	Min. 6dB Bandwidth (MHz)	Required Limit
2412	16.60	>500KHz
2437	16.70	>500KHz
2462	16.70	>500KHz

Note :Test Graphs See next page.

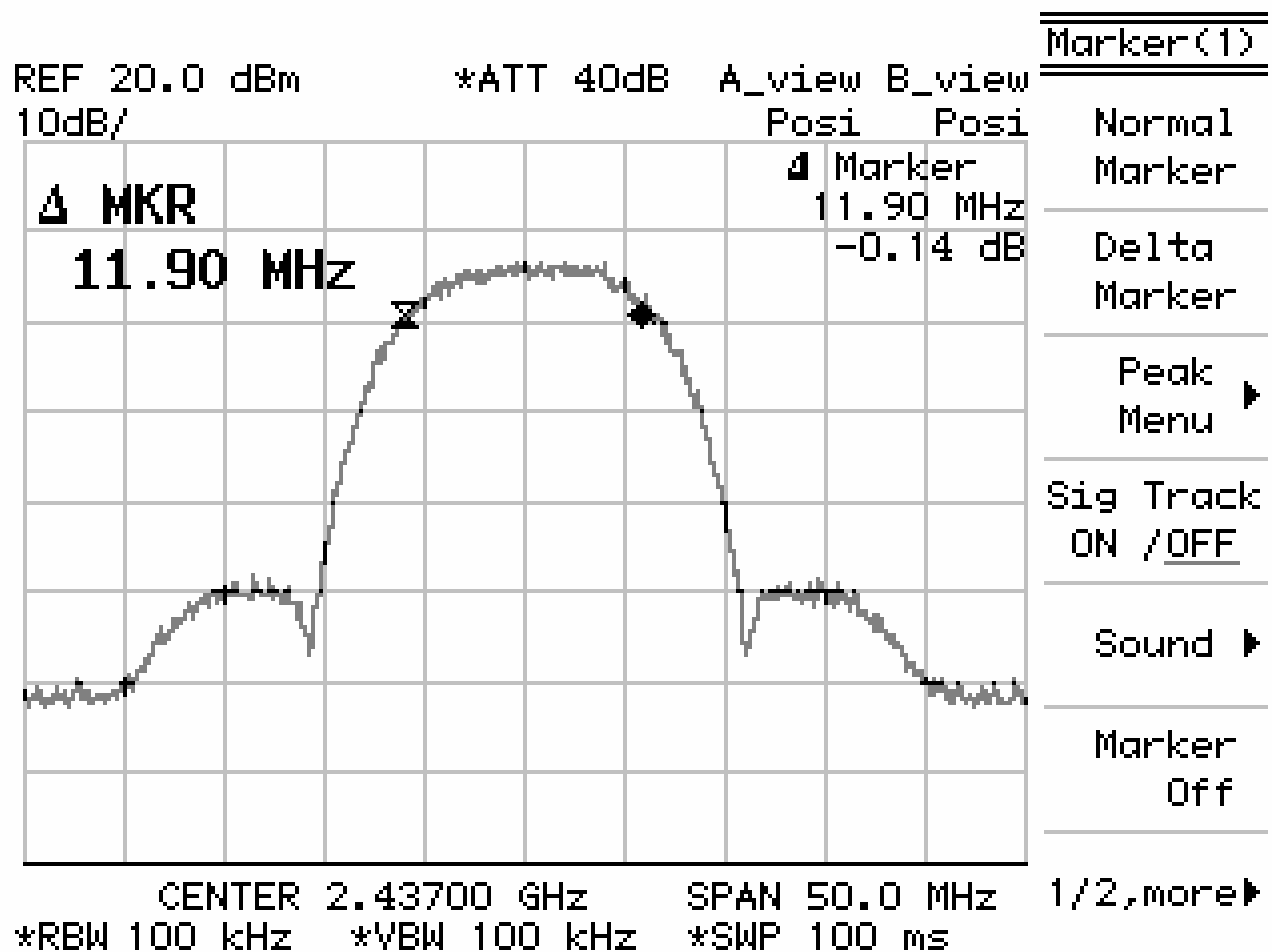
802.11 Super G

Frequency (MHz)	Min. 6dB Bandwidth (MHz)	Required Limit
2437	32.96	>500KHz

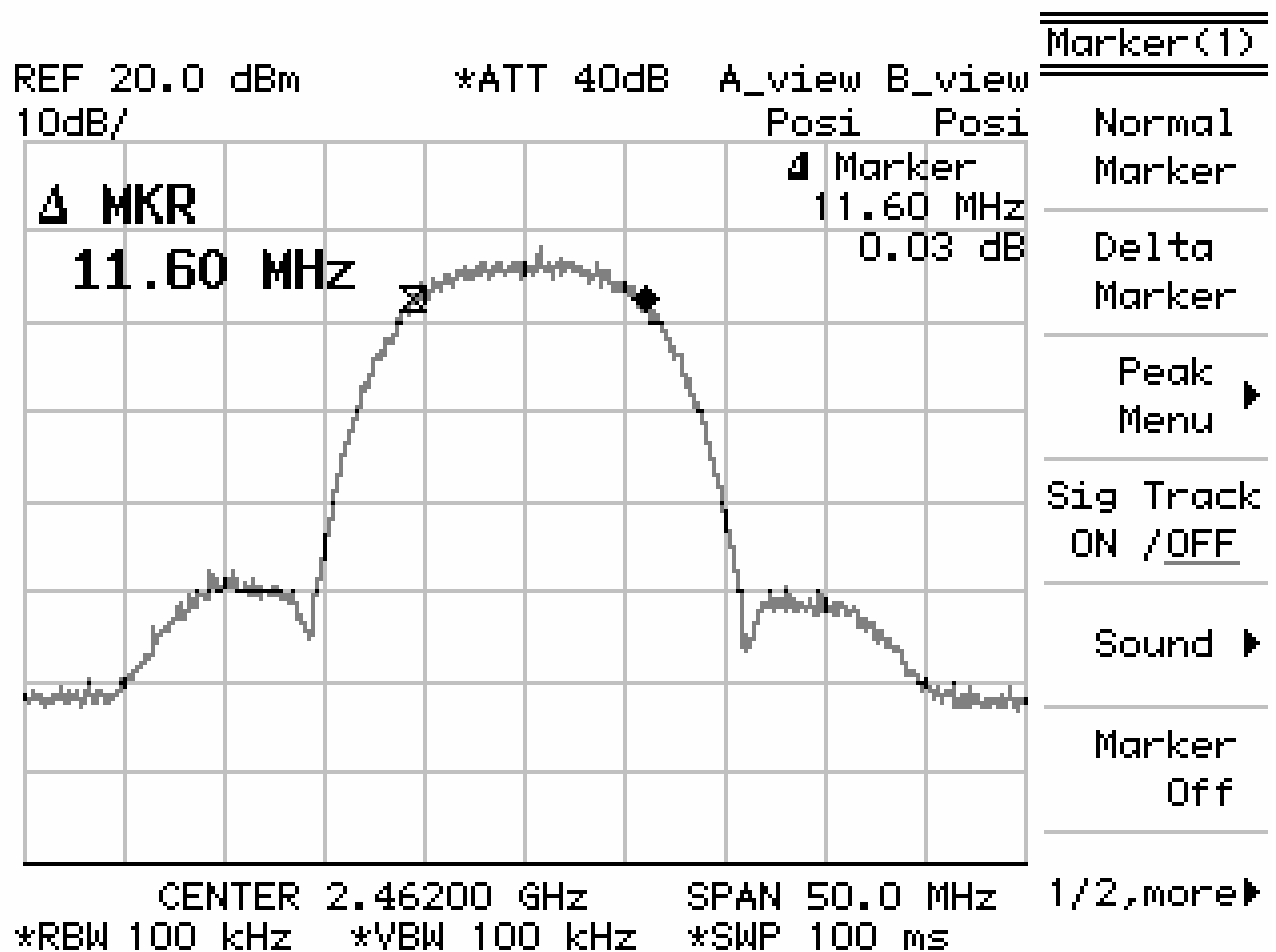
802.11b (2412MHz)



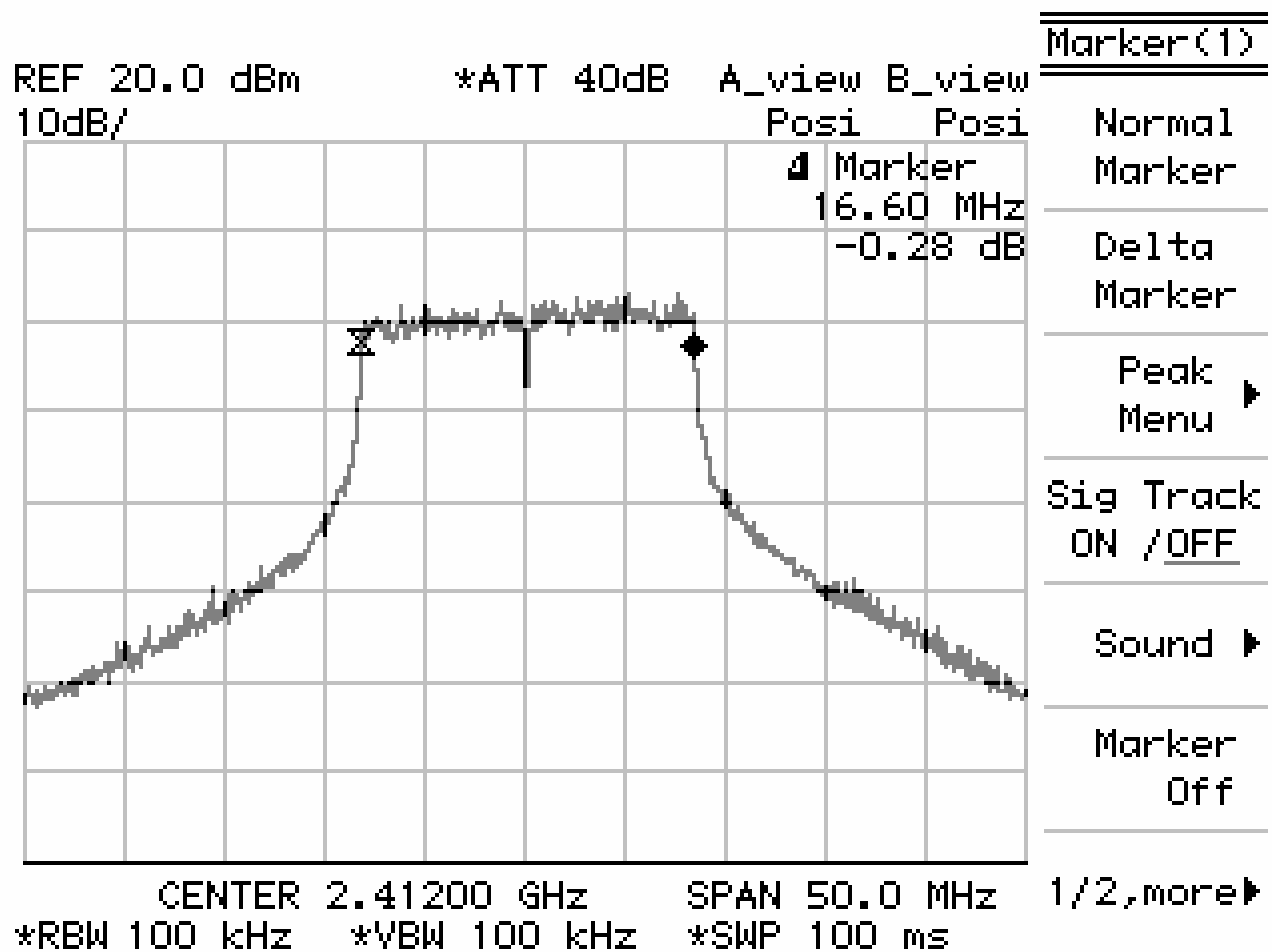
802.11b (2437MHz)



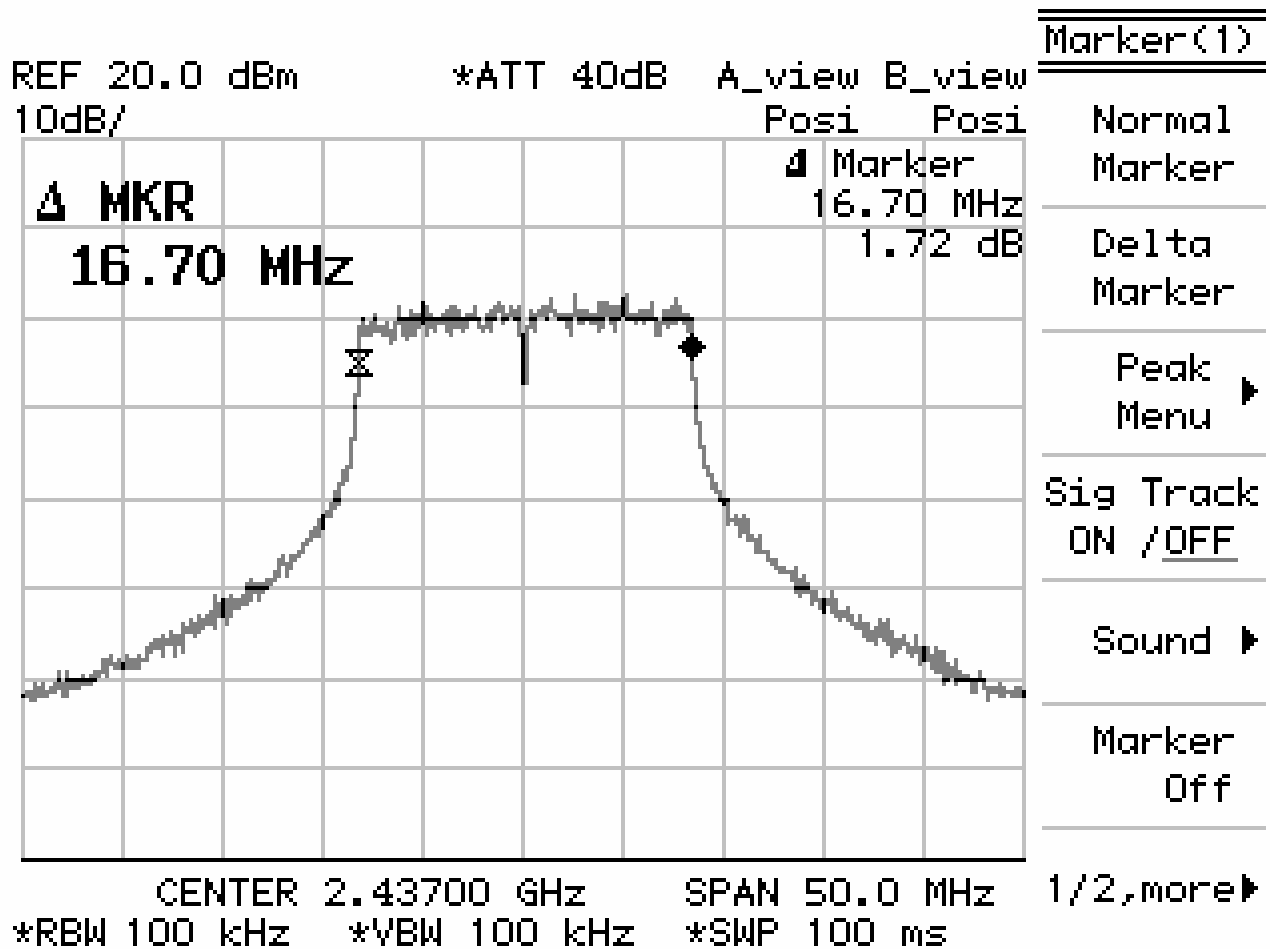
802.11b (2462MHz)



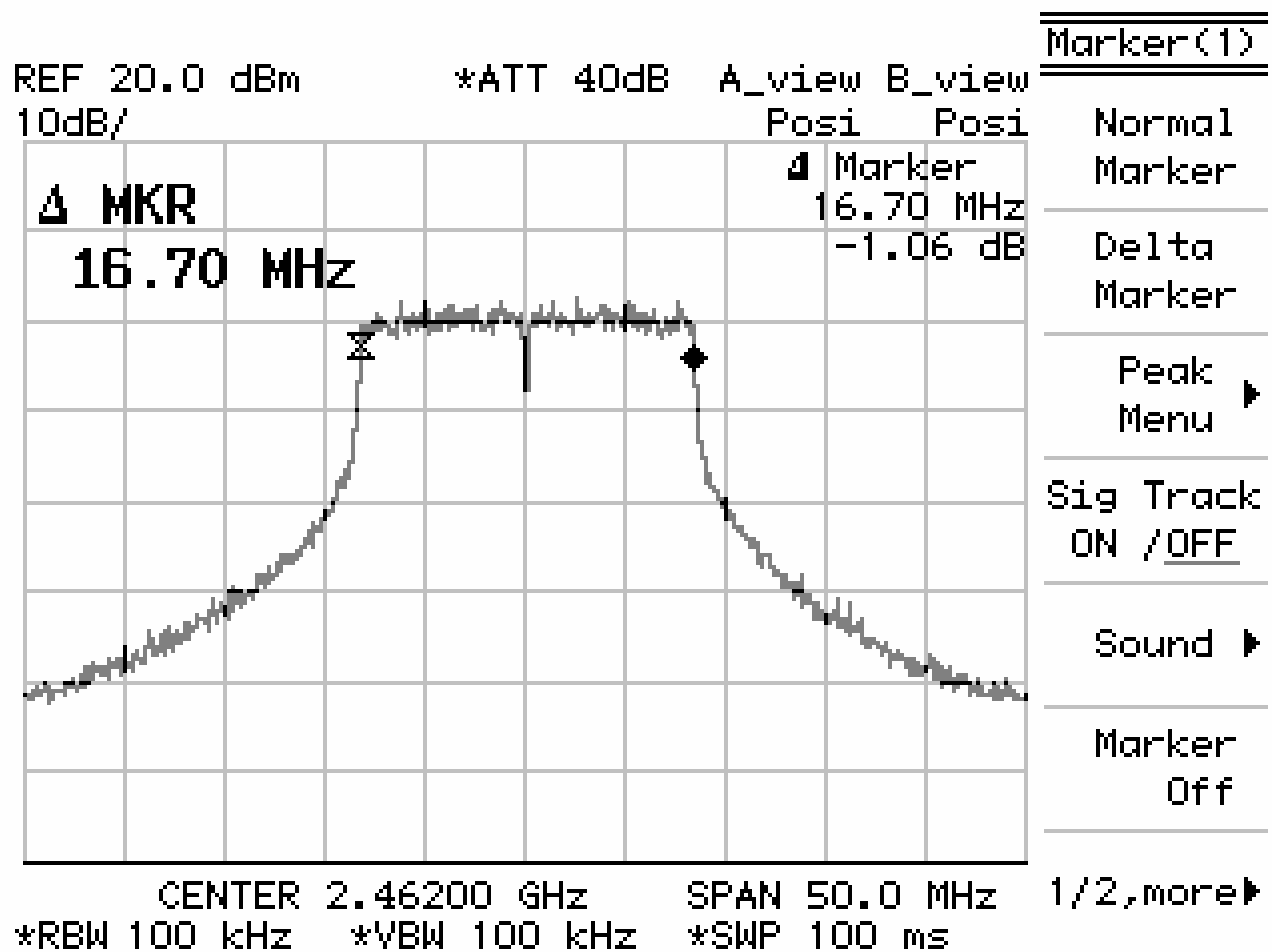
802.11g (2412MHz)



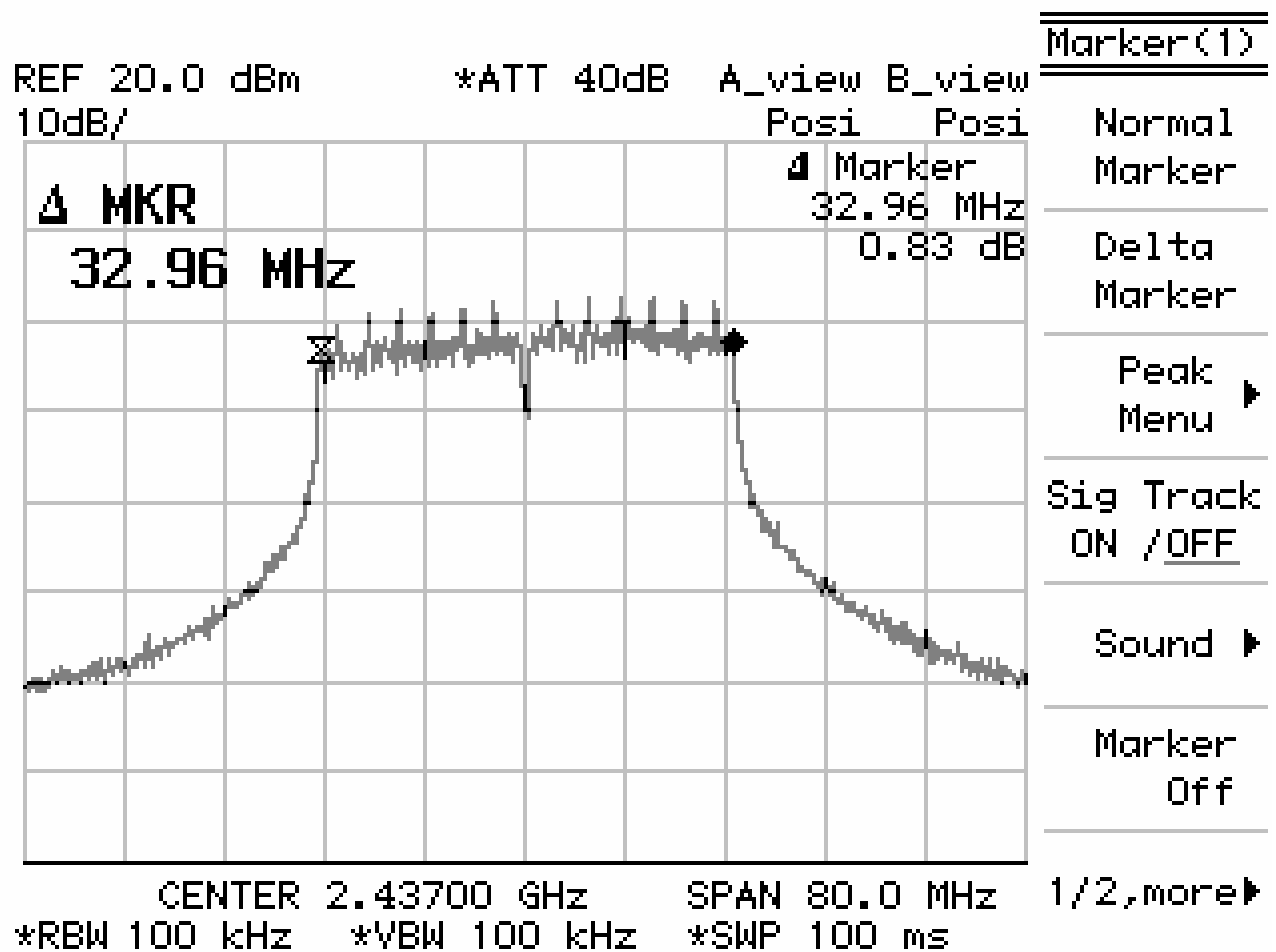
802.11g (2437MHz)



802.11g (2462MHz)



802.11 Super G (2437MHz)



VI. Maximum Power Density Requirements

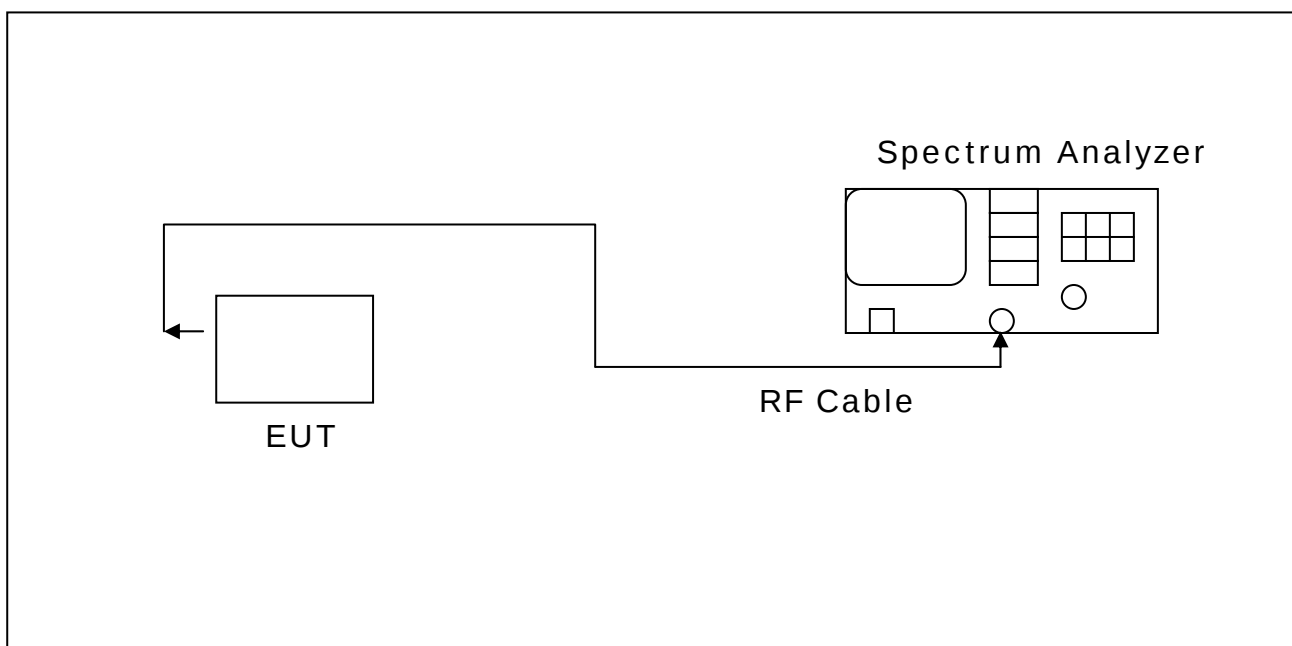
6.1 Test Condition & Setup :

The spectrum analyzer RES BW was set to 3 kHz. The START and STOP frequencies were set to the band edges of the maximum output passband. If there is no clear maximum amplitude in any given portion of the band, it may be necessary to make measurements at a number of bands defined by several START and STOP frequency pairs. The specification calls for a 1 second interval at each 3 kHz bandwidth; total SWEEP TIME is calculated as follows:

$$\text{SWEEP TIME (SEC)} = (\text{Fstop, kHz} - \text{Fstart, kHz}) / 3 \text{ kHz}$$

Antenna output of the EUT was coupled directly to spectrum analyzer; if an external attenuator and/or cable was used, these losses are compensated for with the analyzer OFFSET function.

6.2 Test Instruments Configuration:



6.3 Test Equipment List:

Item	Mfr/Brand	Instruments	Serial No.	Model/Type No.	Calibrated Date	Next Cali. Date
1.	ADVANTEST	Spectrum Analyzer	91780529	R3131	2006/01/17	2007/01/17

6.4 Test Result:

802.11b

Frequency (MHz)	Power Density (dBm)	Required Limit
2412	-5.94	<8dBm
2437	-6.08	<8dBm
2462	-6.11	<8dBm

802.11g

Frequency (MHz)	Power Density (dBm)	Required Limit
2412	-10.64	<8dBm
2437	-10.61	<8dBm
2462	-10.42	<8dBm

802.11Super G

Frequency (MHz)	Power Density (dBm)	Required Limit
2437	-19.53	<8dBm

Note :

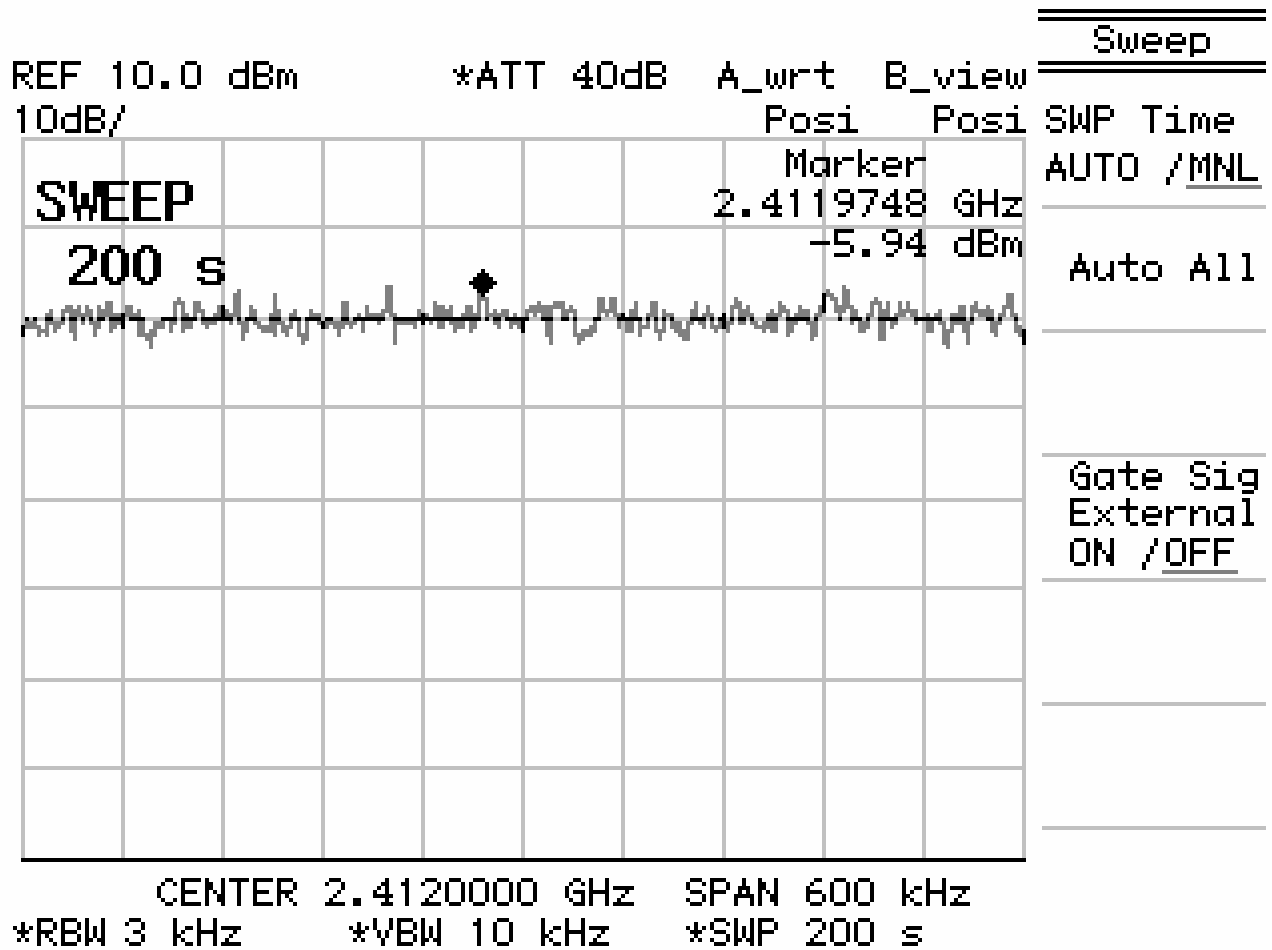
1. Frequency Span= 600 kHz
2. Sweep Time = Frequency Span/3 kHz=200secs
3. Test Graphs See next page.



MAX LIGHT
MEASUREMENT REPORT

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802.11b (2412MHz)



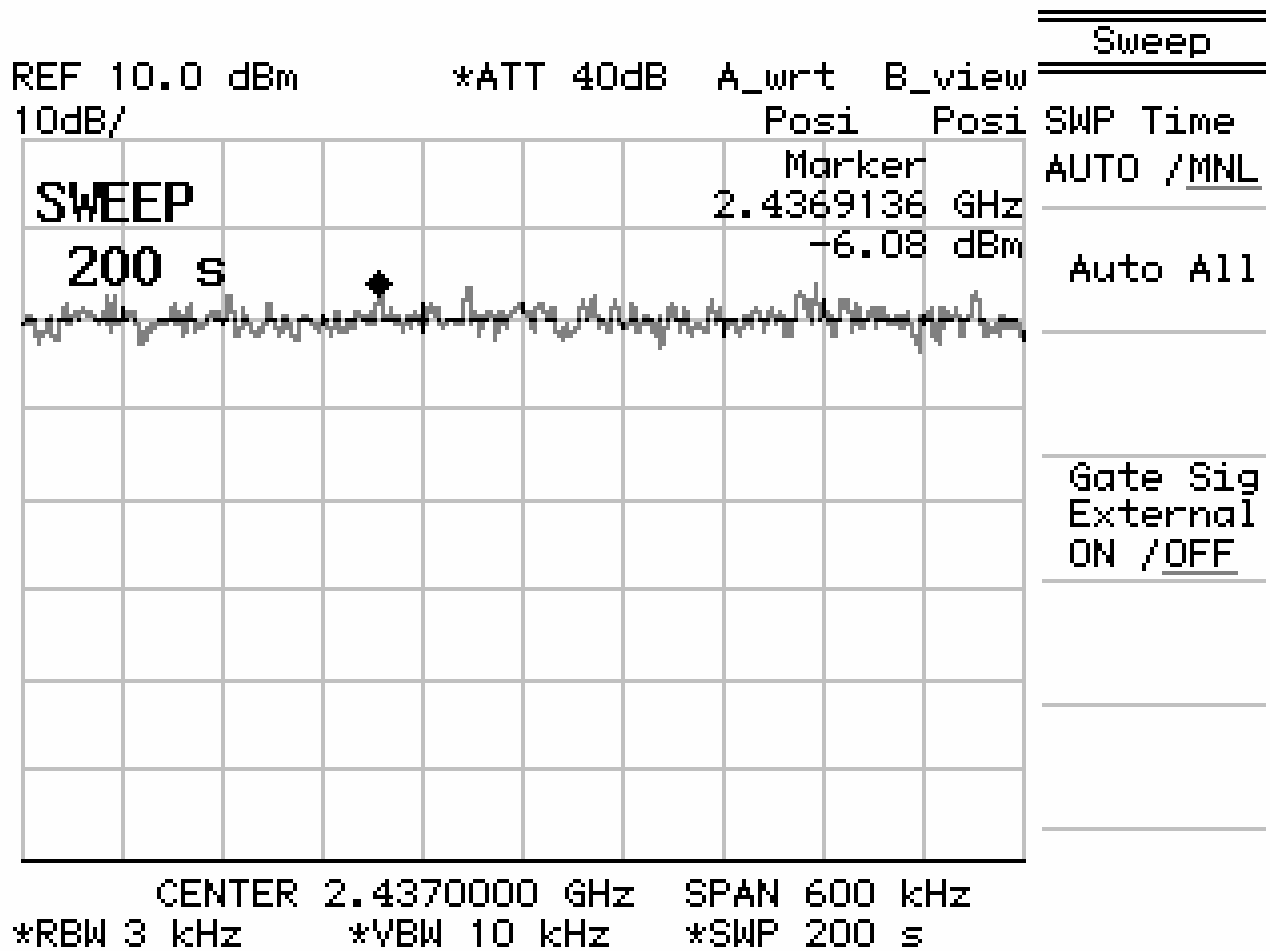


MAX LIGHT

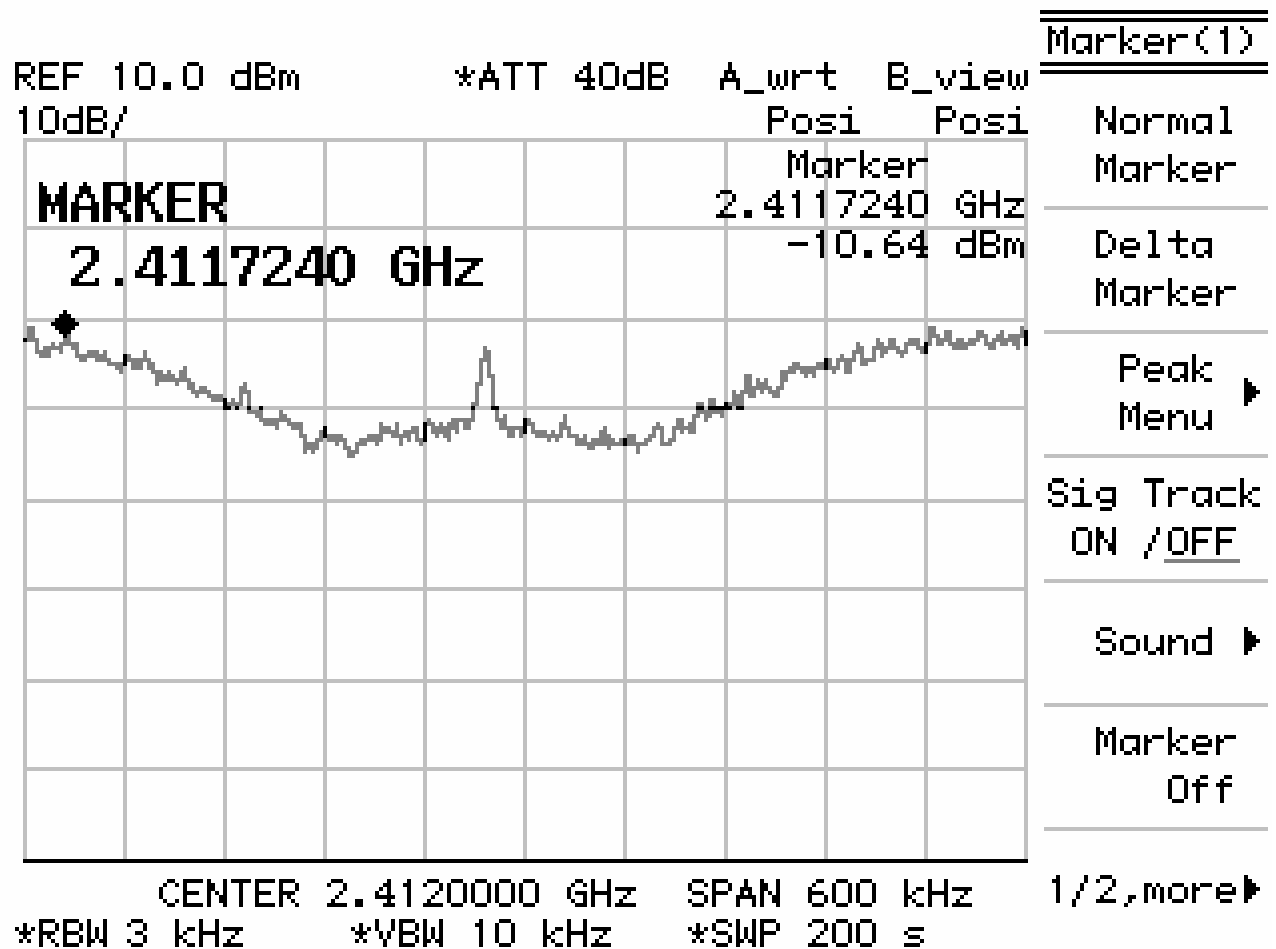
MEASUREMENT REPORT

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802.11b (2437MHz)



802.11g (2412MHz)



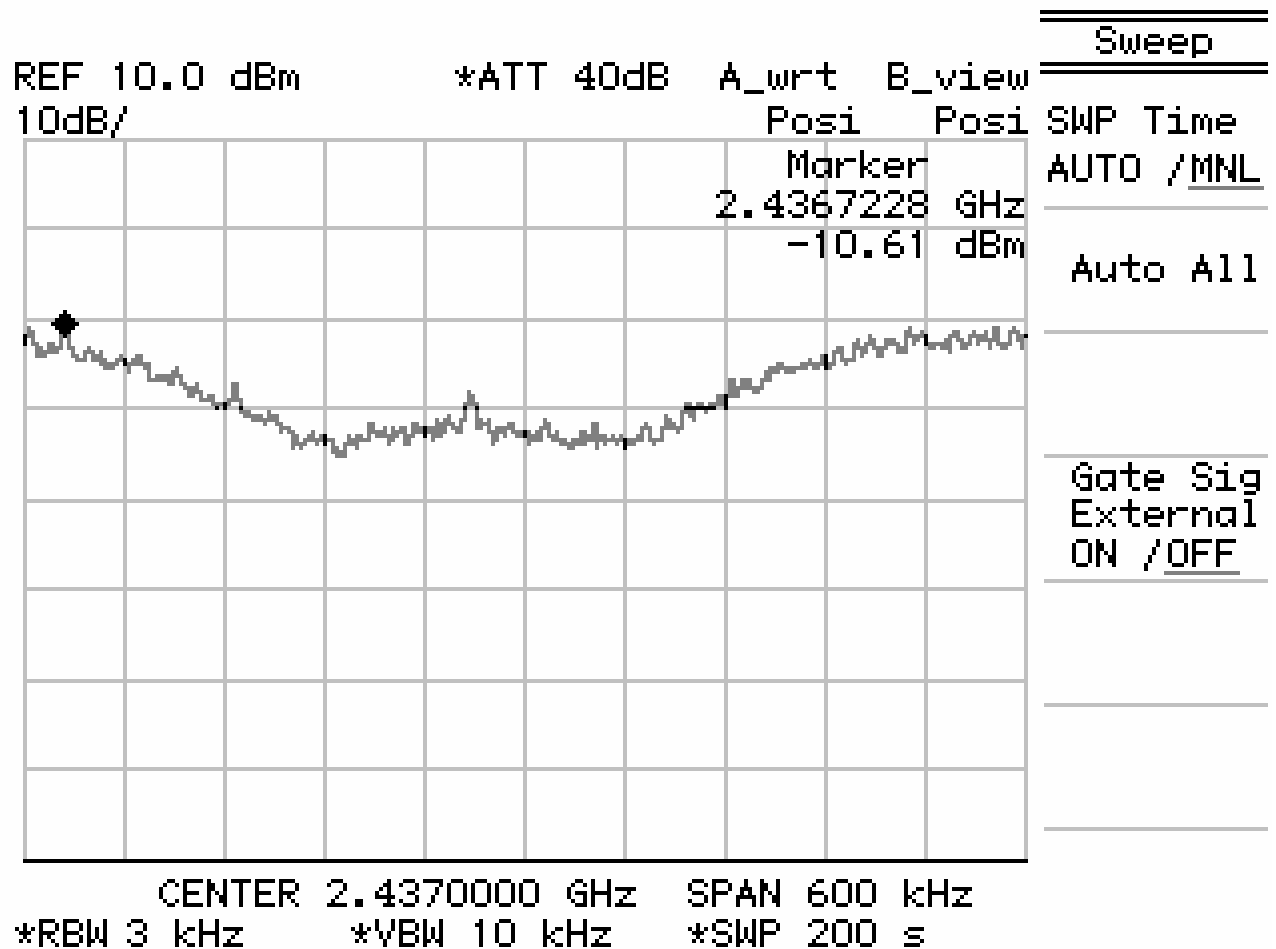


MAX LIGHT

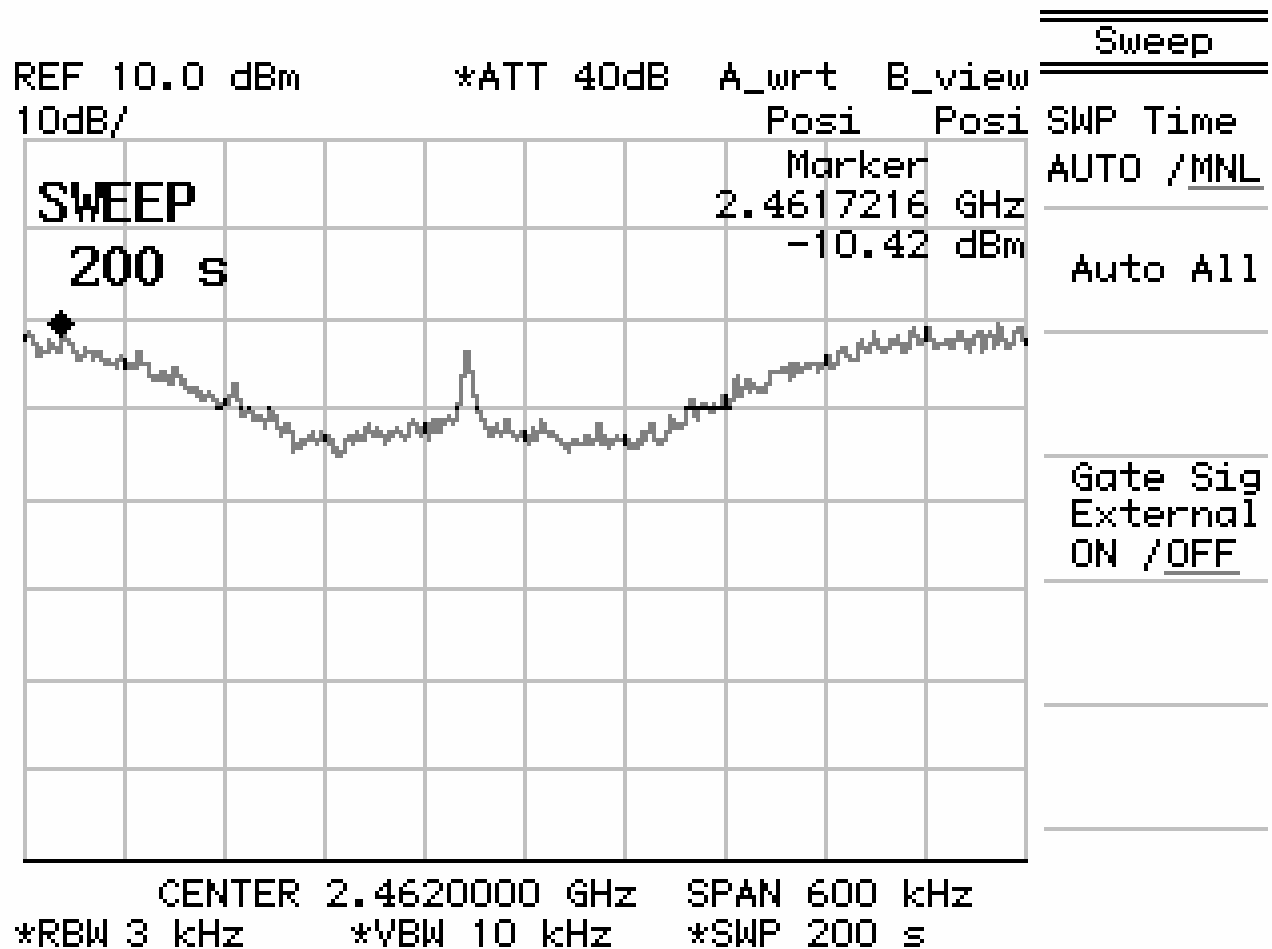
MEASUREMENT REPORT

Page: 74/120

802.11g (2437MHz)



802.11g (2462MHz)



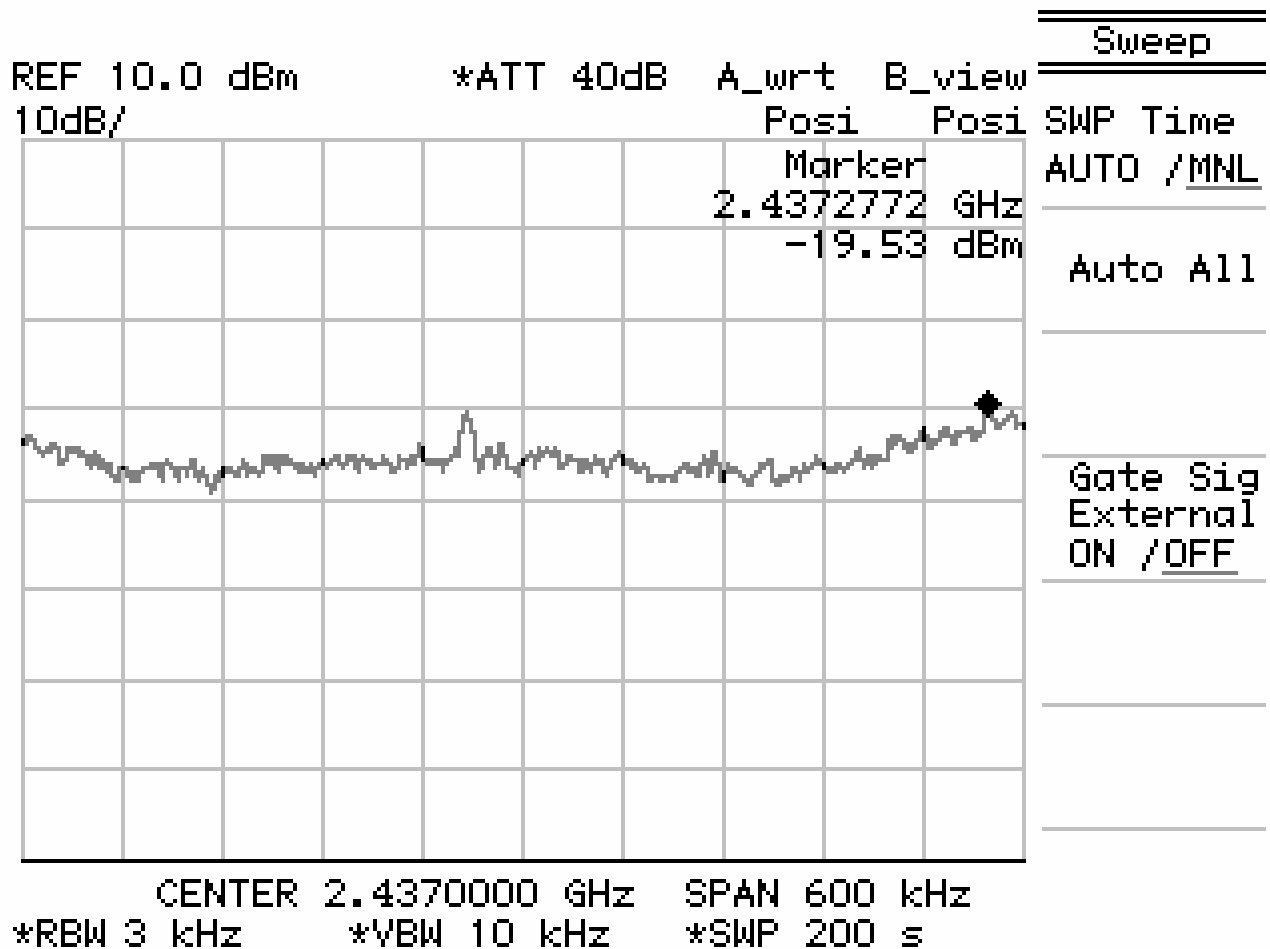


MAX LIGHT

MEASUREMENT REPORT

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802.11 Super G (2437MHz)



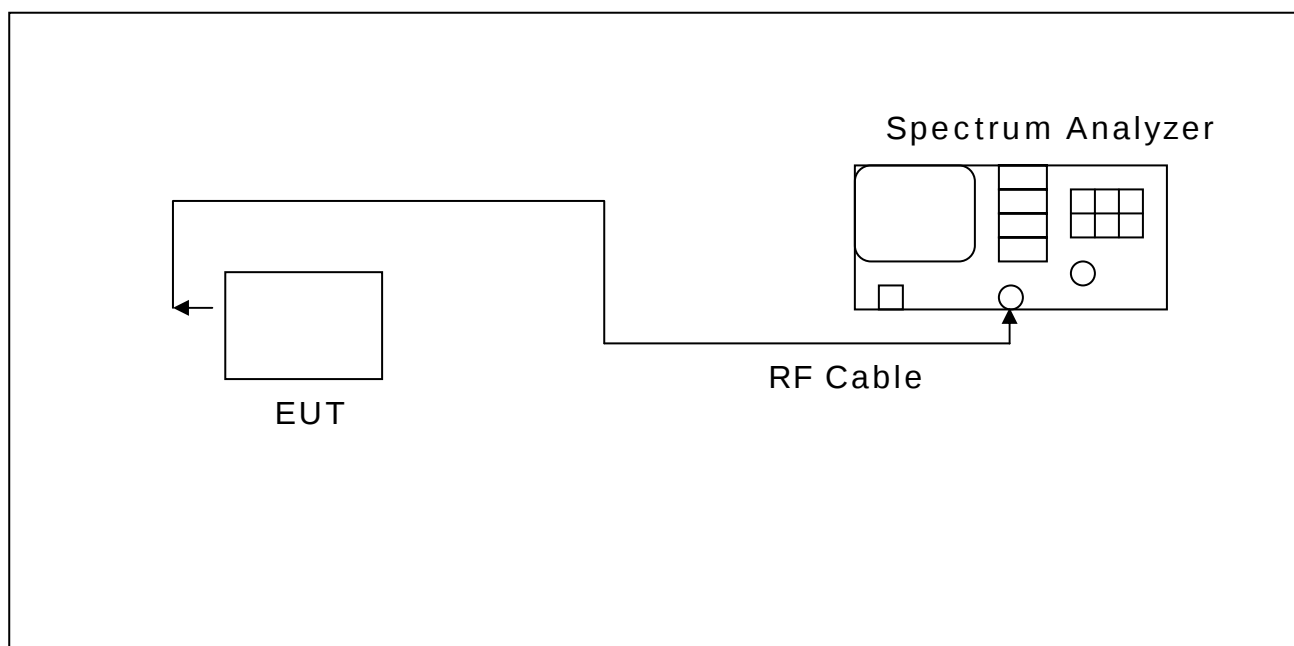
VII. Out of Band Conducted Emissions Requirements

7.1 Test Condition & Setup :

In any 100 kHz bandwidth outside the EUT passband, the RF power produced by the modulation products of the spreading sequence, the information sequence, and the carrier frequency shall be at least 20 dB below that of the maximum in-band 100 kHz emission, antenna output of the EUT was coupled directly to spectrum analyzer; if an external attenuator and/or cable was used, these losses are compensated for with the analyzer OFFSET function.

All other types of emissions from the EUT shall meet the general limits for radiated frequencies outside the passband. The test was performed at 3 channels (Channel 1, 6,11)

7.2 Test Instruments Configuration:





MAX LIGHT

MEASUREMENT REPORT

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7.3 Test Equipment List:

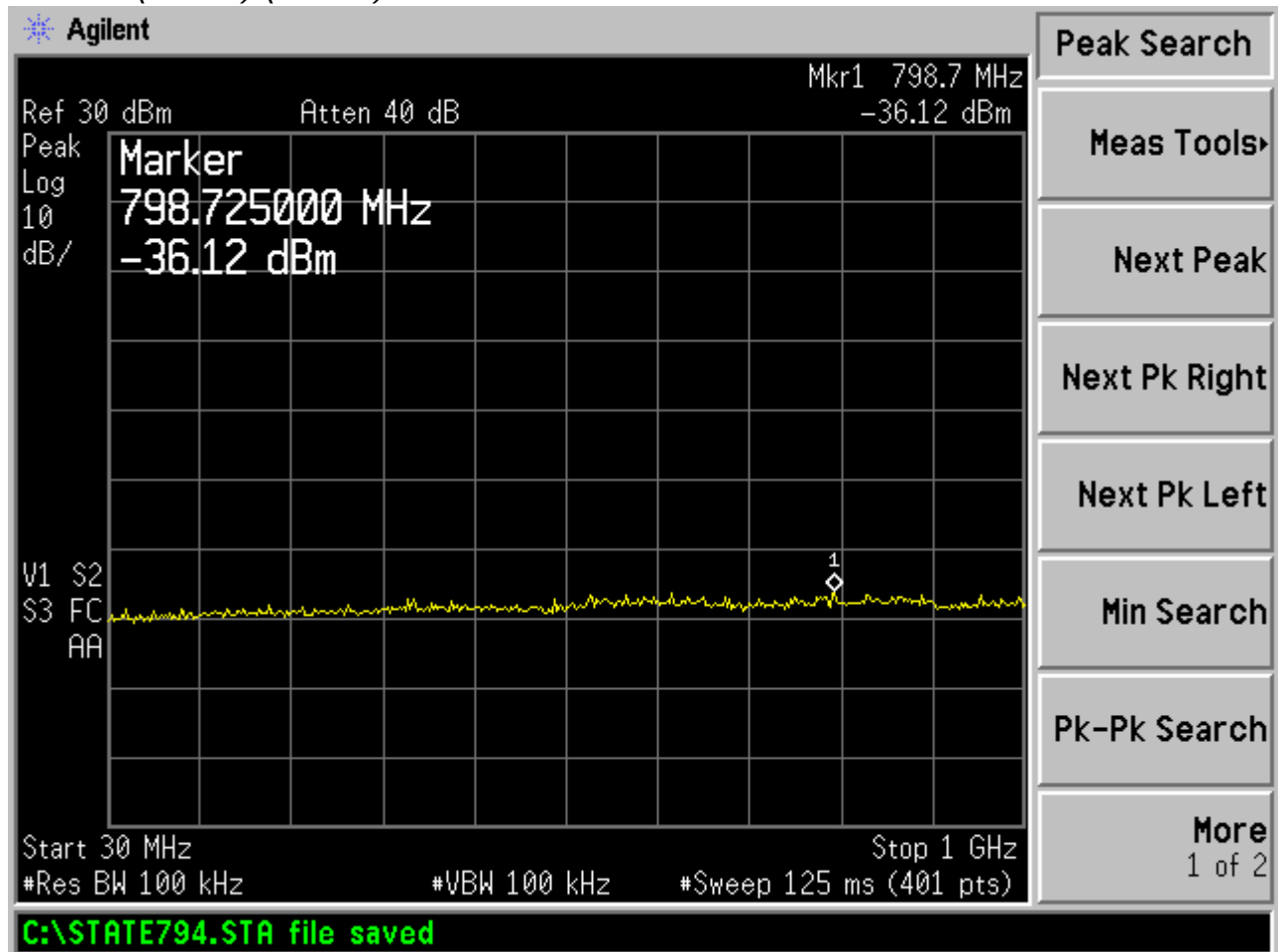
<i>Item</i>	<i>Mfr/Brand</i>	<i>Instruments</i>	<i>Serial No.</i>	<i>Model/Type No.</i>	<i>Calibrated Date</i>	<i>Next Cali. Date</i>
1.	ADVANTEST	Spectrum Analyzer	91780529	R3131	2006/01/17	2007/01/17

7.4 Test Result:

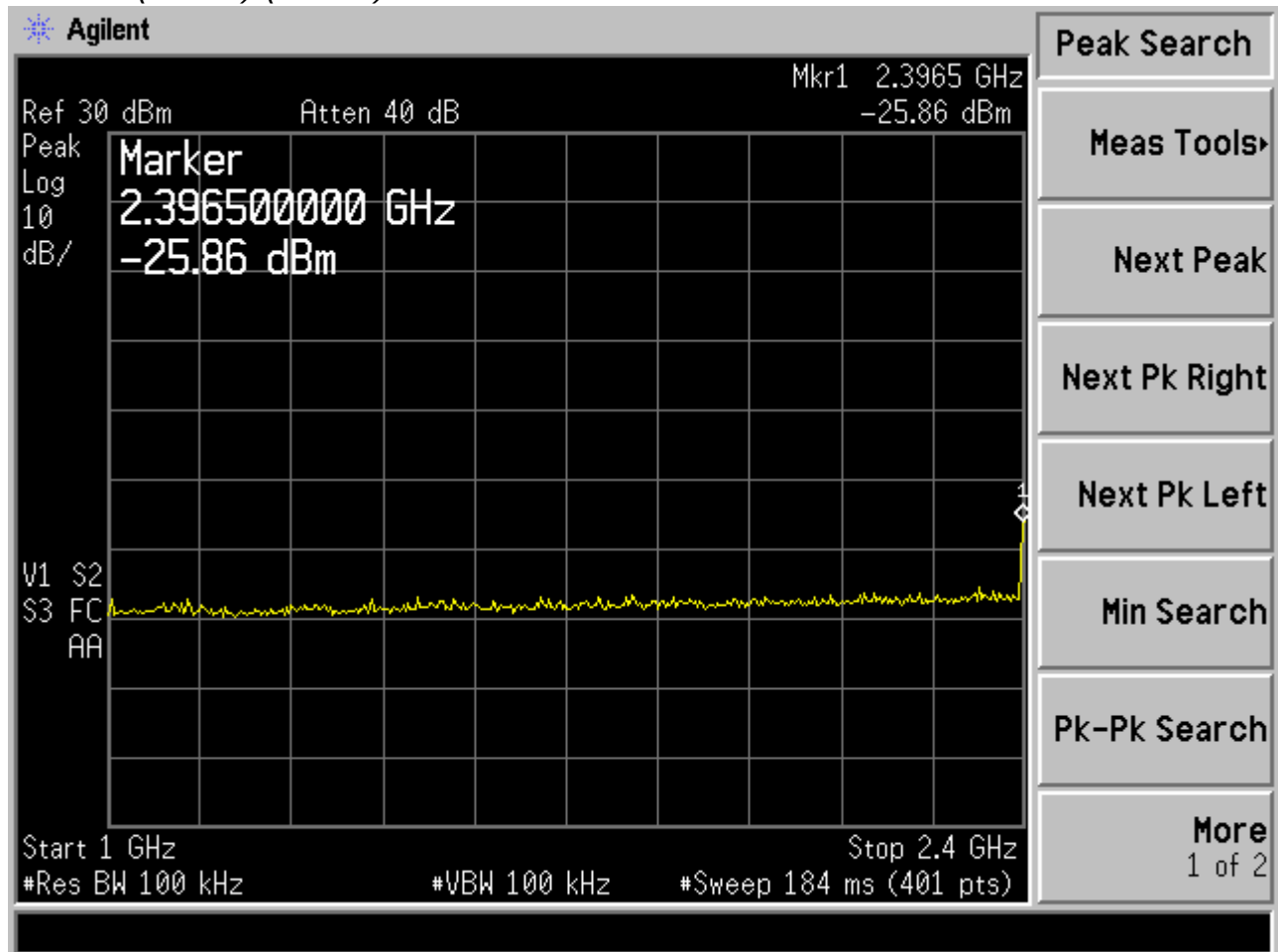
Refer to attached data sheets. Data shows out of band emissions are suppressed well below the -20 dBc minimum required by the Rules.

Note : Test Graphs See next page.

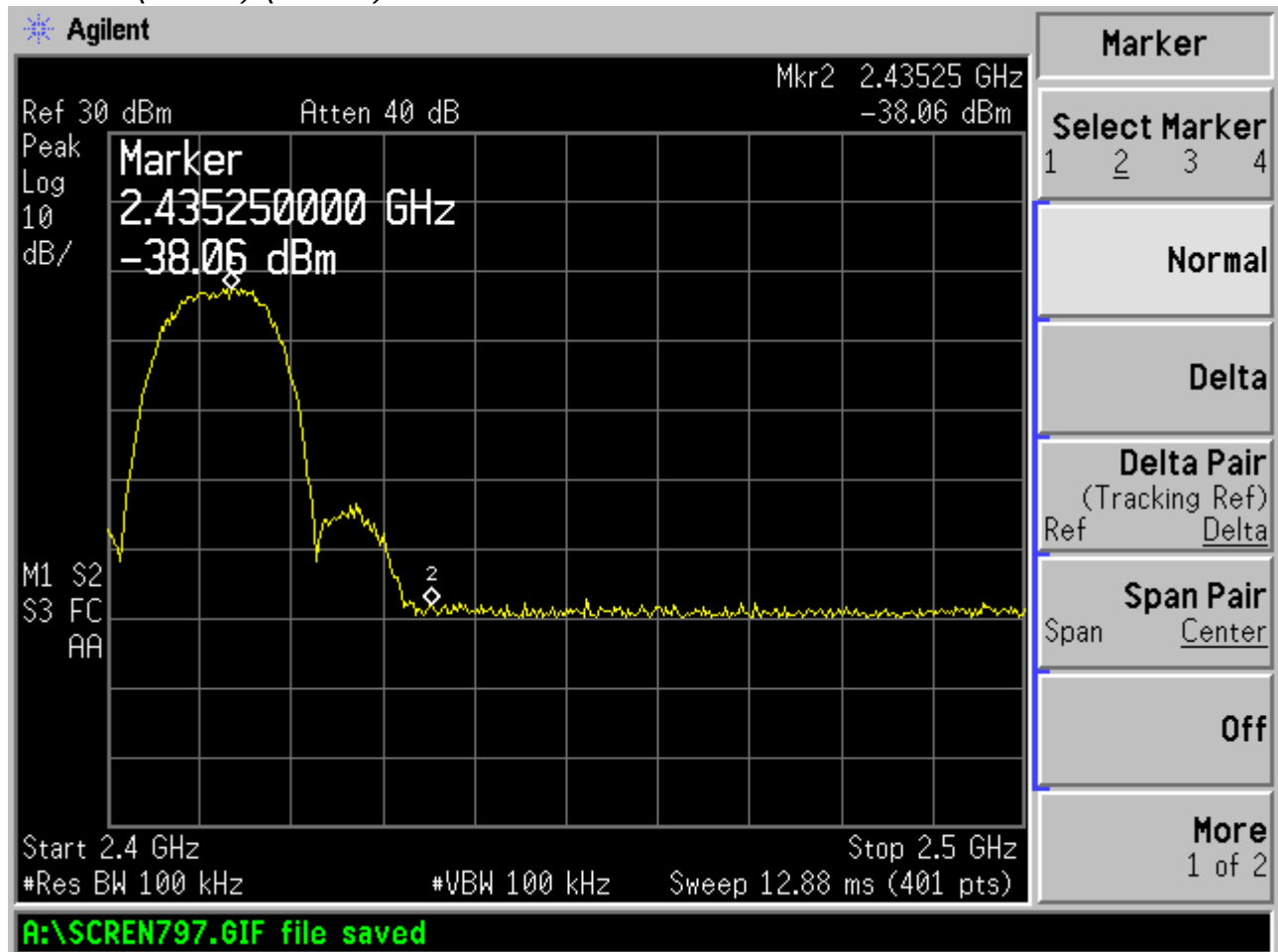
802.11b (CH01) (1 of 5)



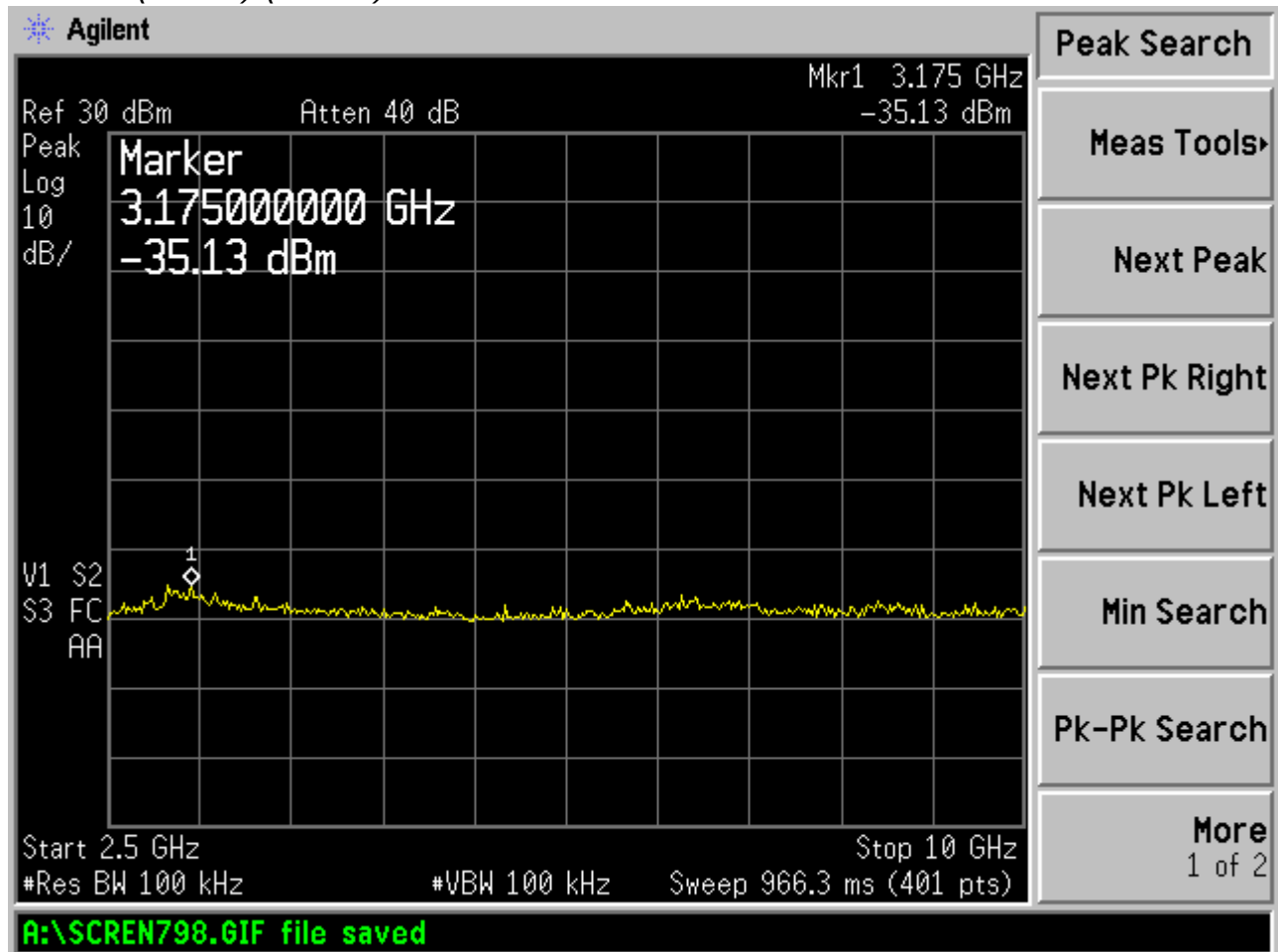
802.11b (CH01) (2 of 5)



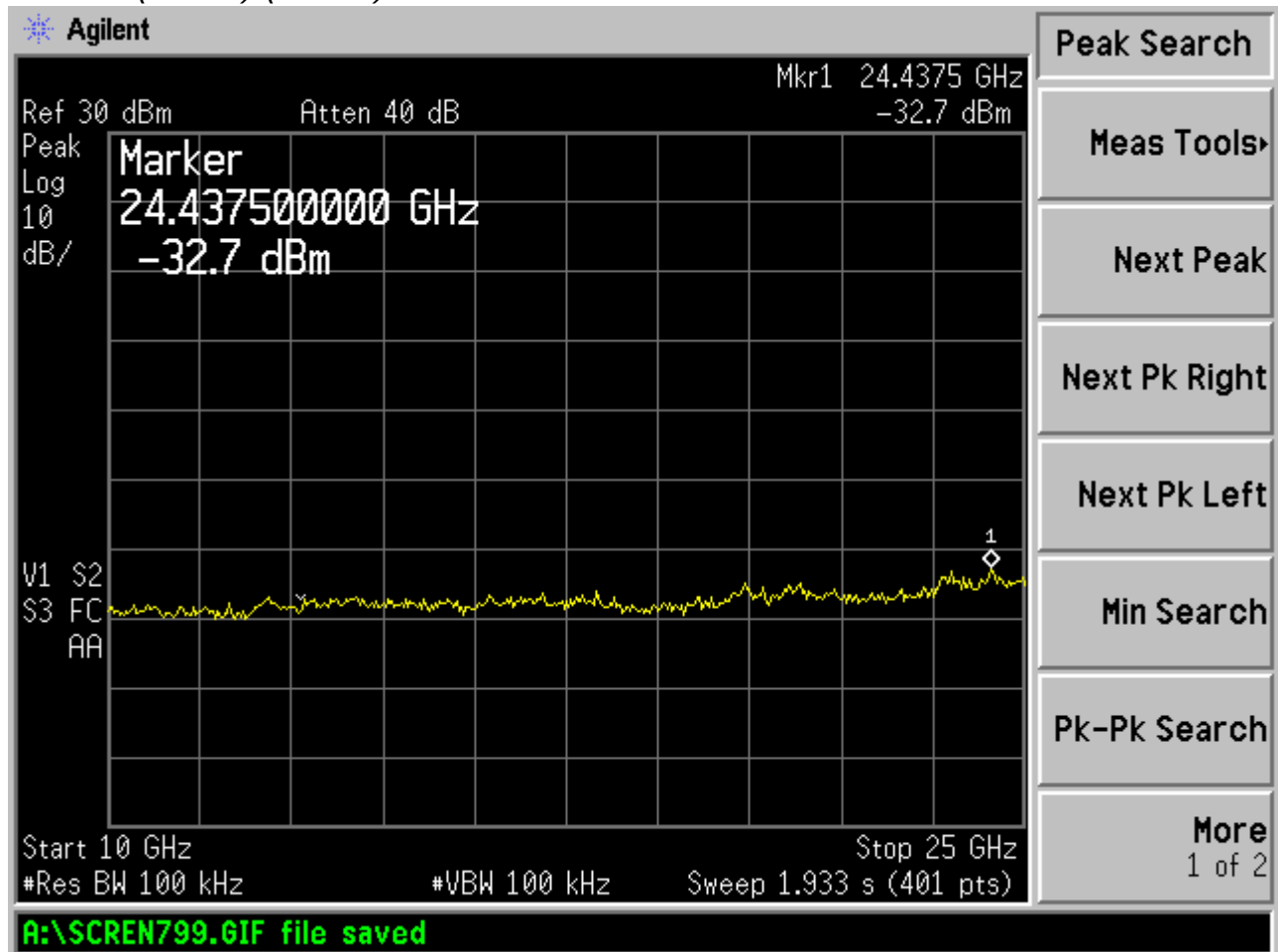
802.11b (CH01) (3 of 5)



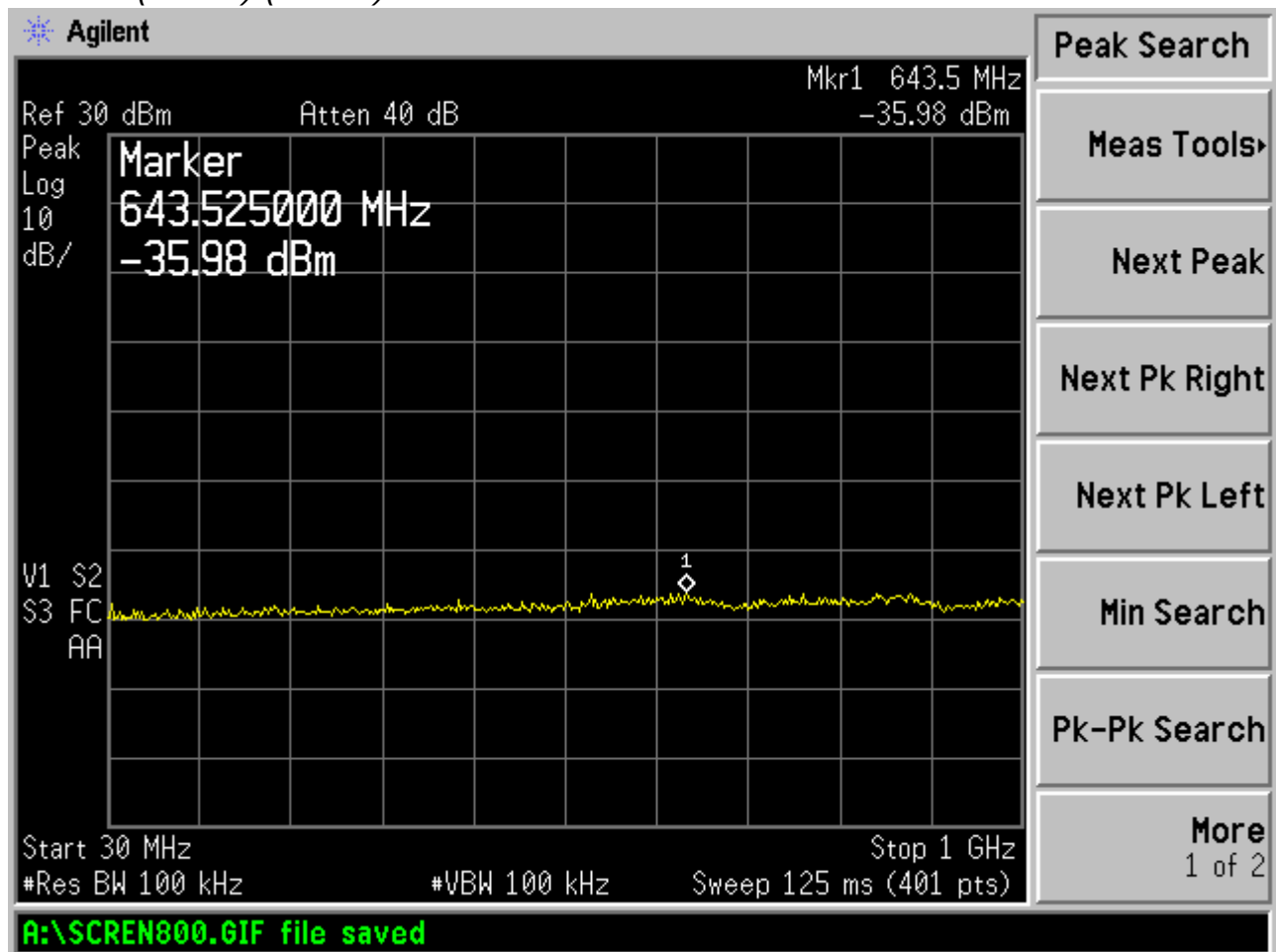
802.11b (CH01) (4 of 5)



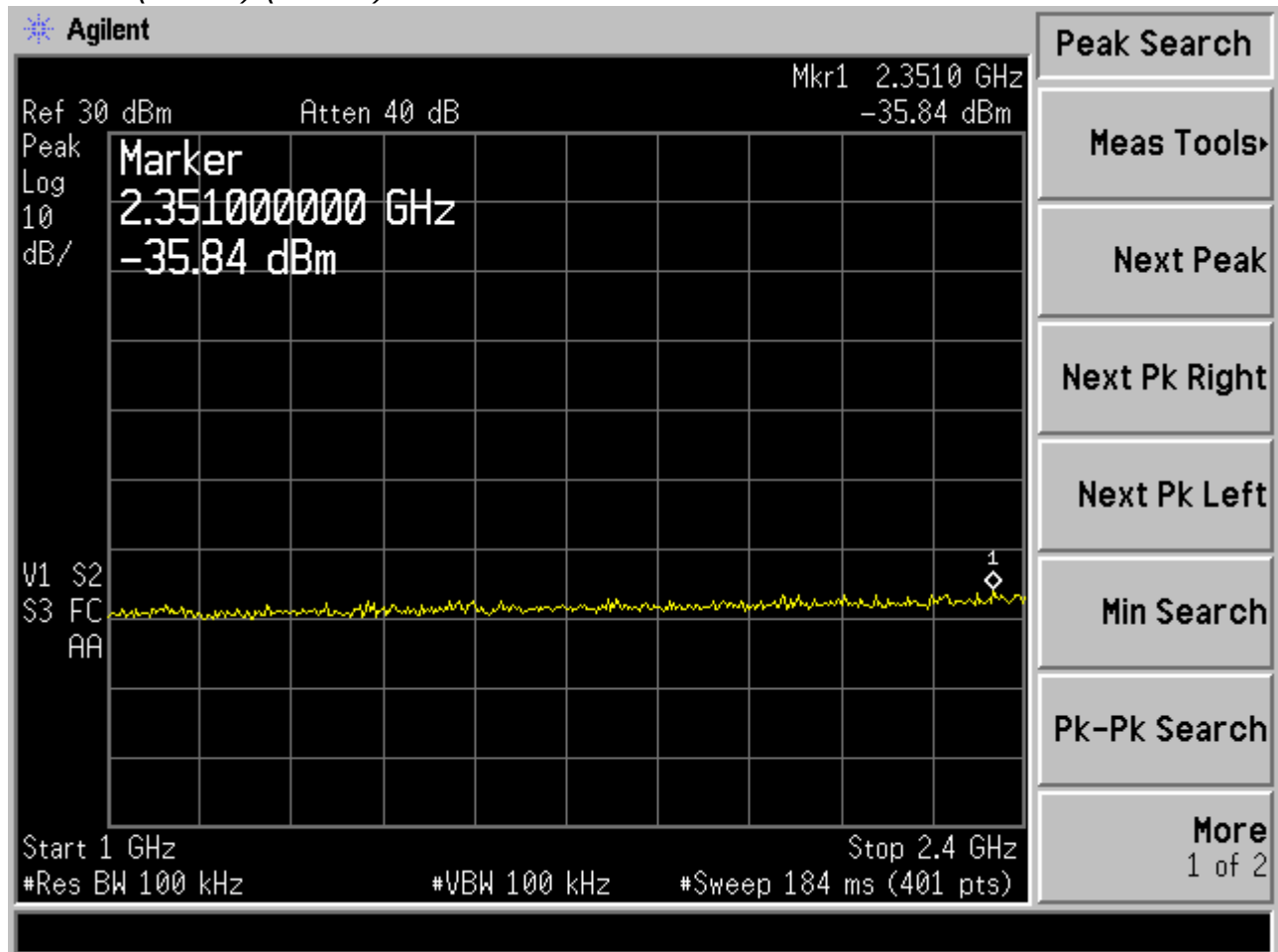
802.11b (CH01) (5 of 5)



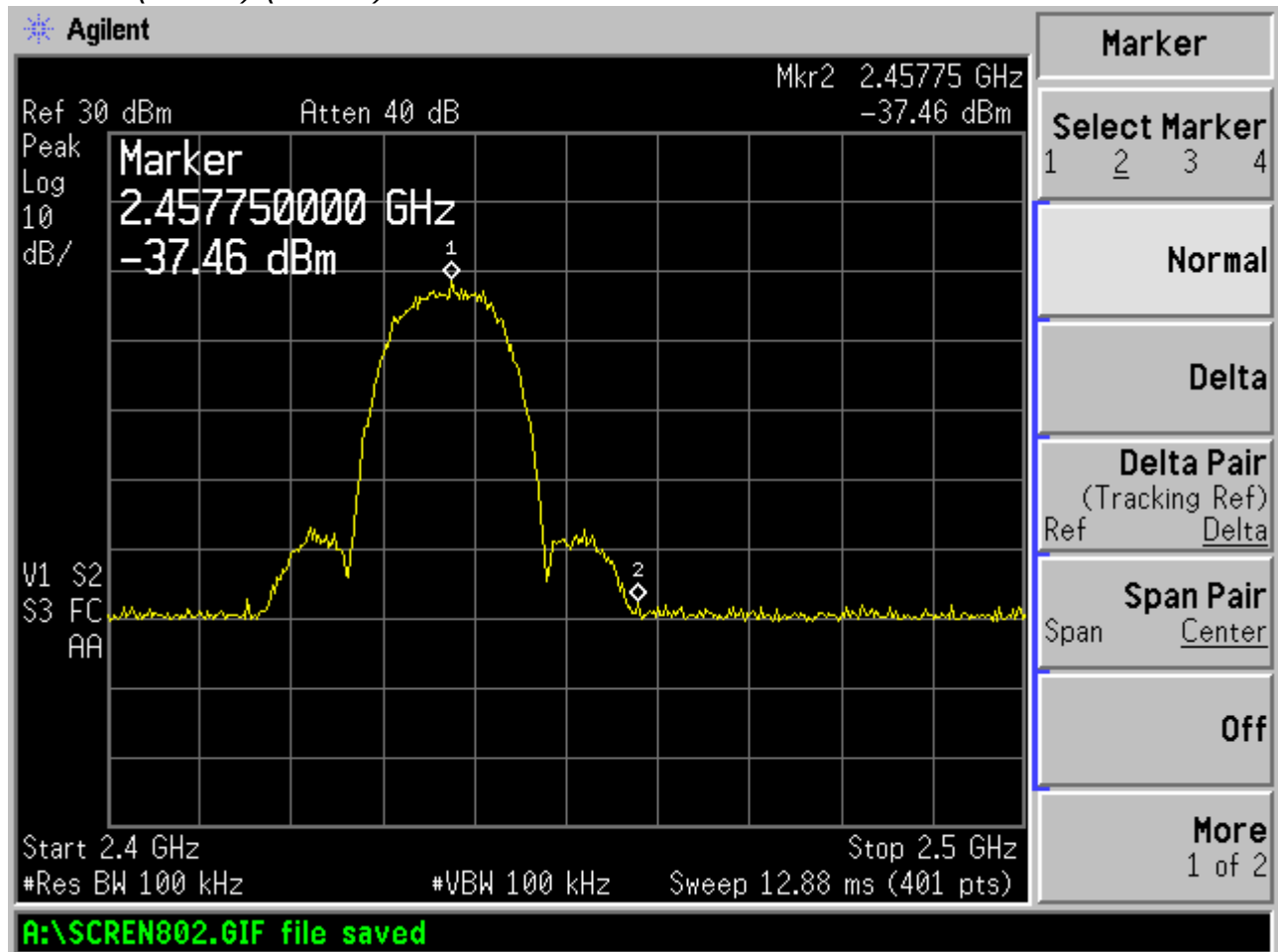
802.11b (CH06) (1 of 5)



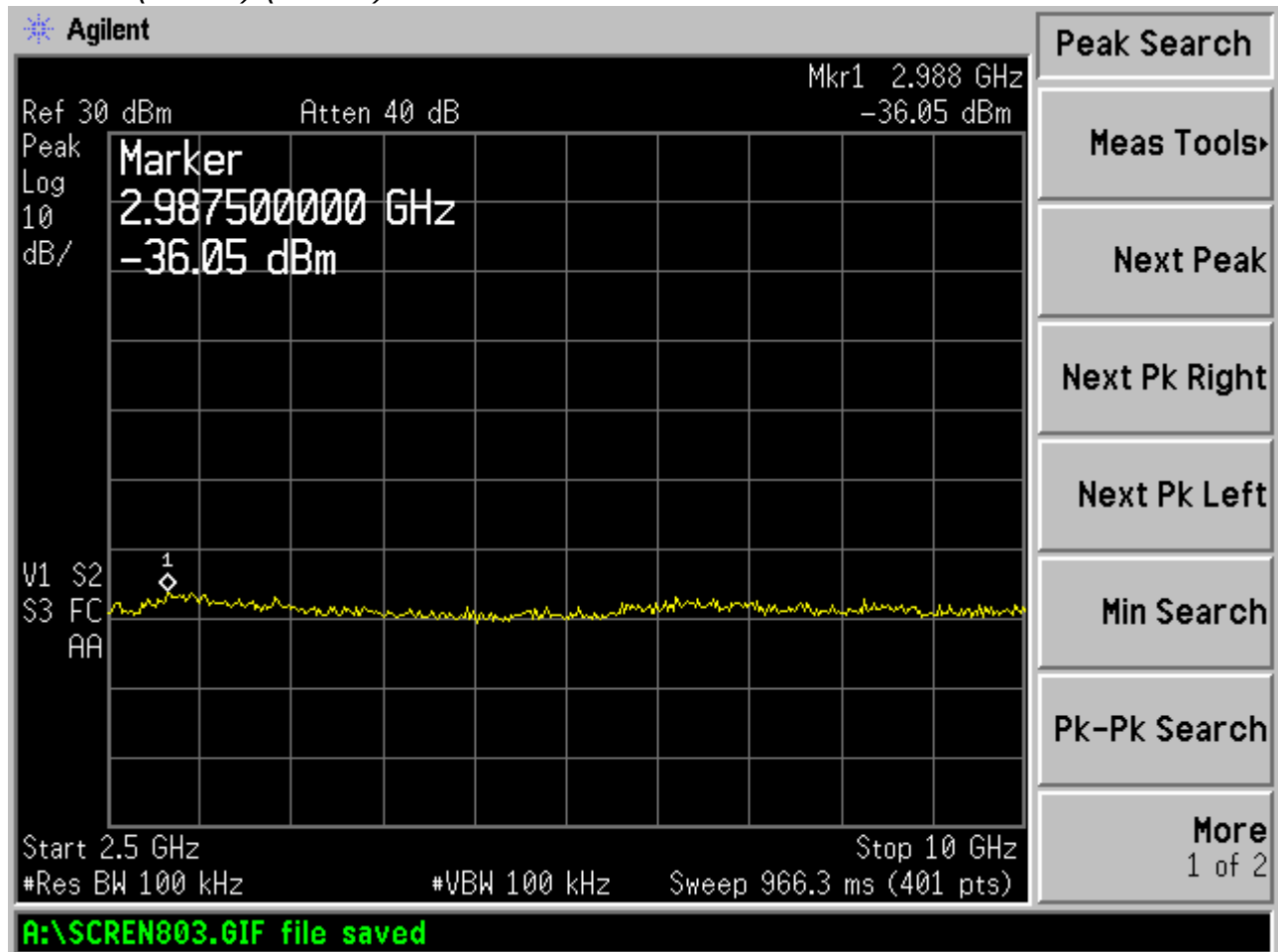
802.11b (CH06) (2 of 5)



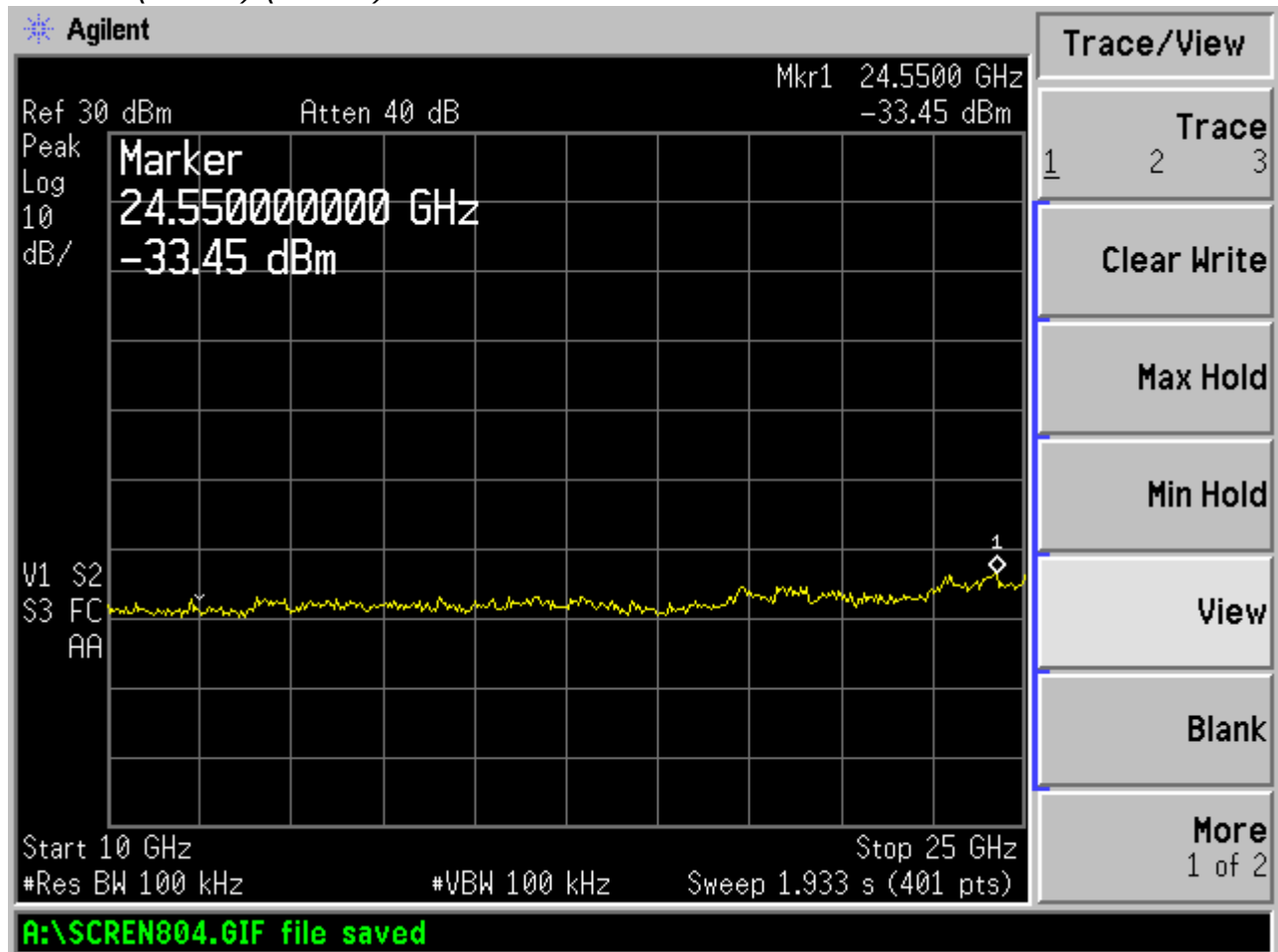
802.11b (CH06) (3 of 5)



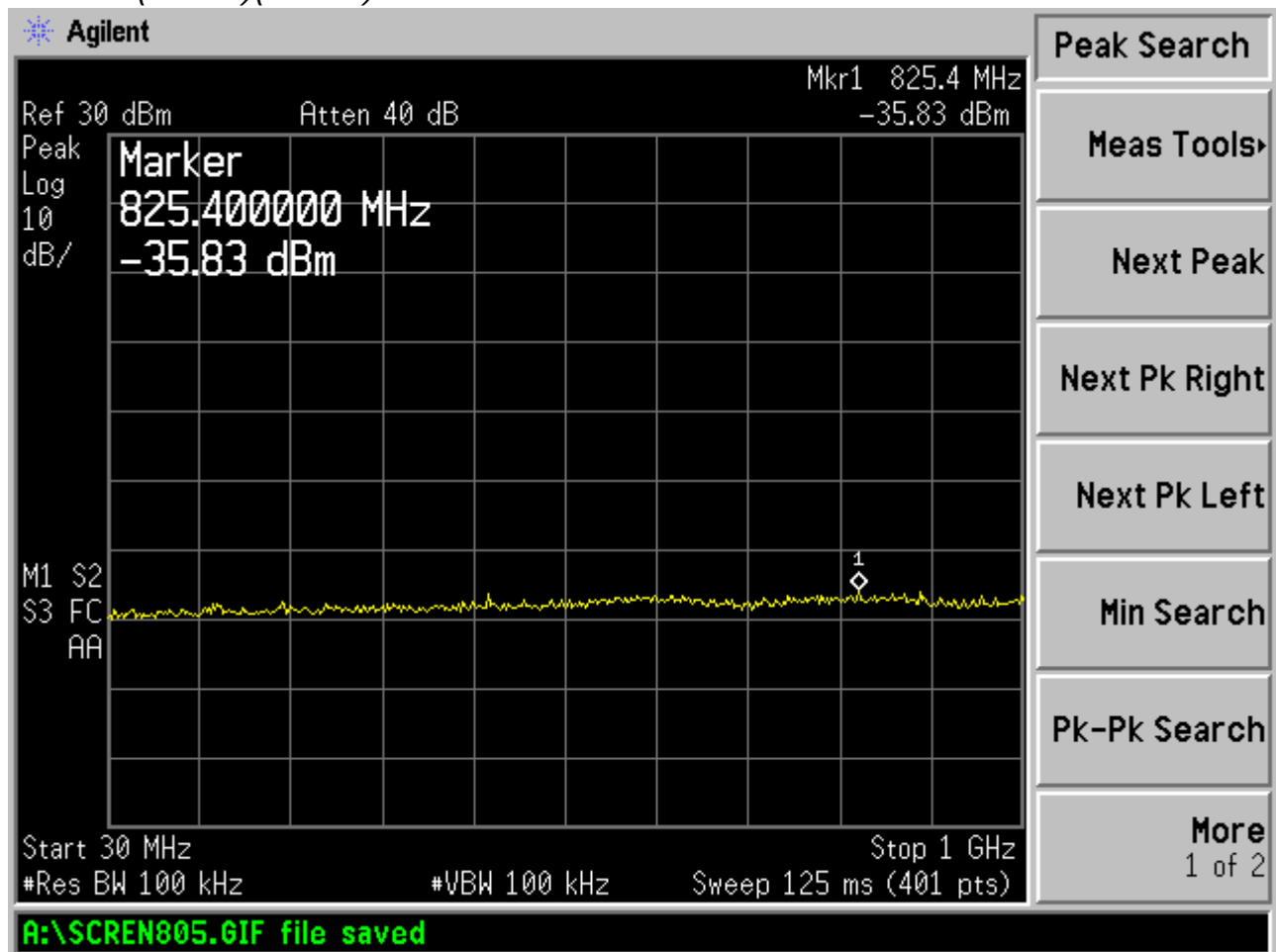
802.11b (CH06) (4 of 5)



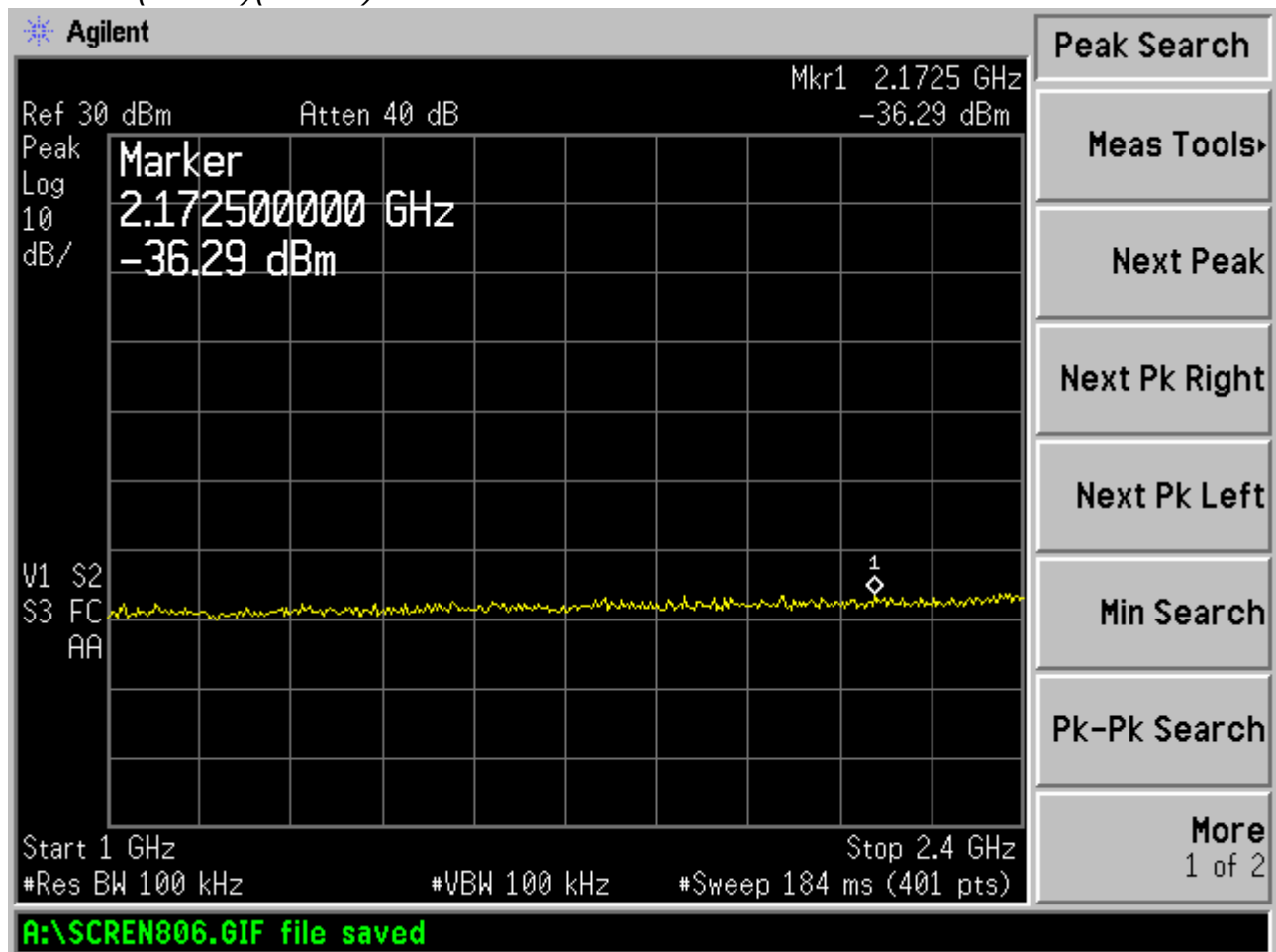
802.11b (CH06) (5 of 5)



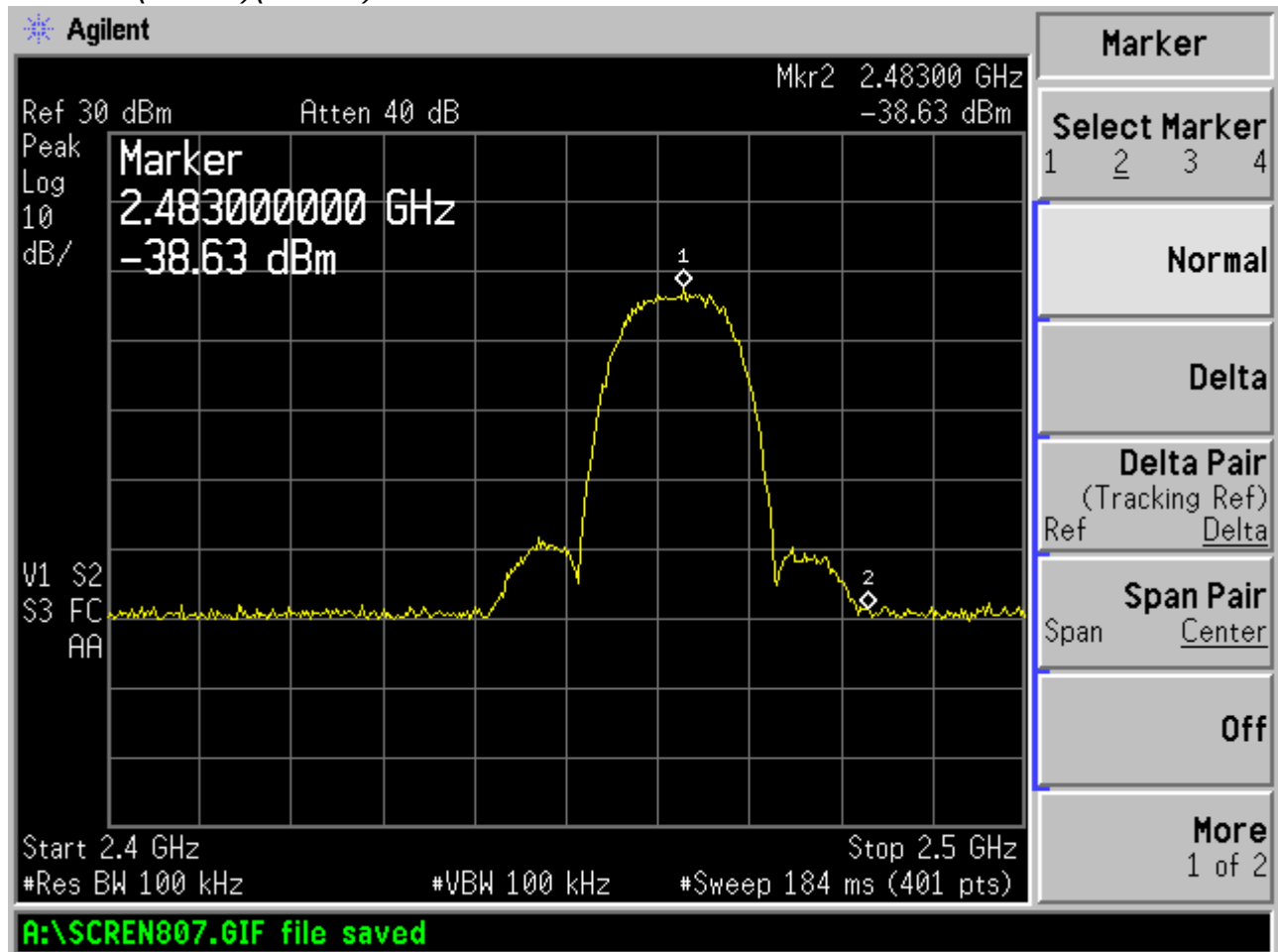
802.11b (CH11)(1 of 5)



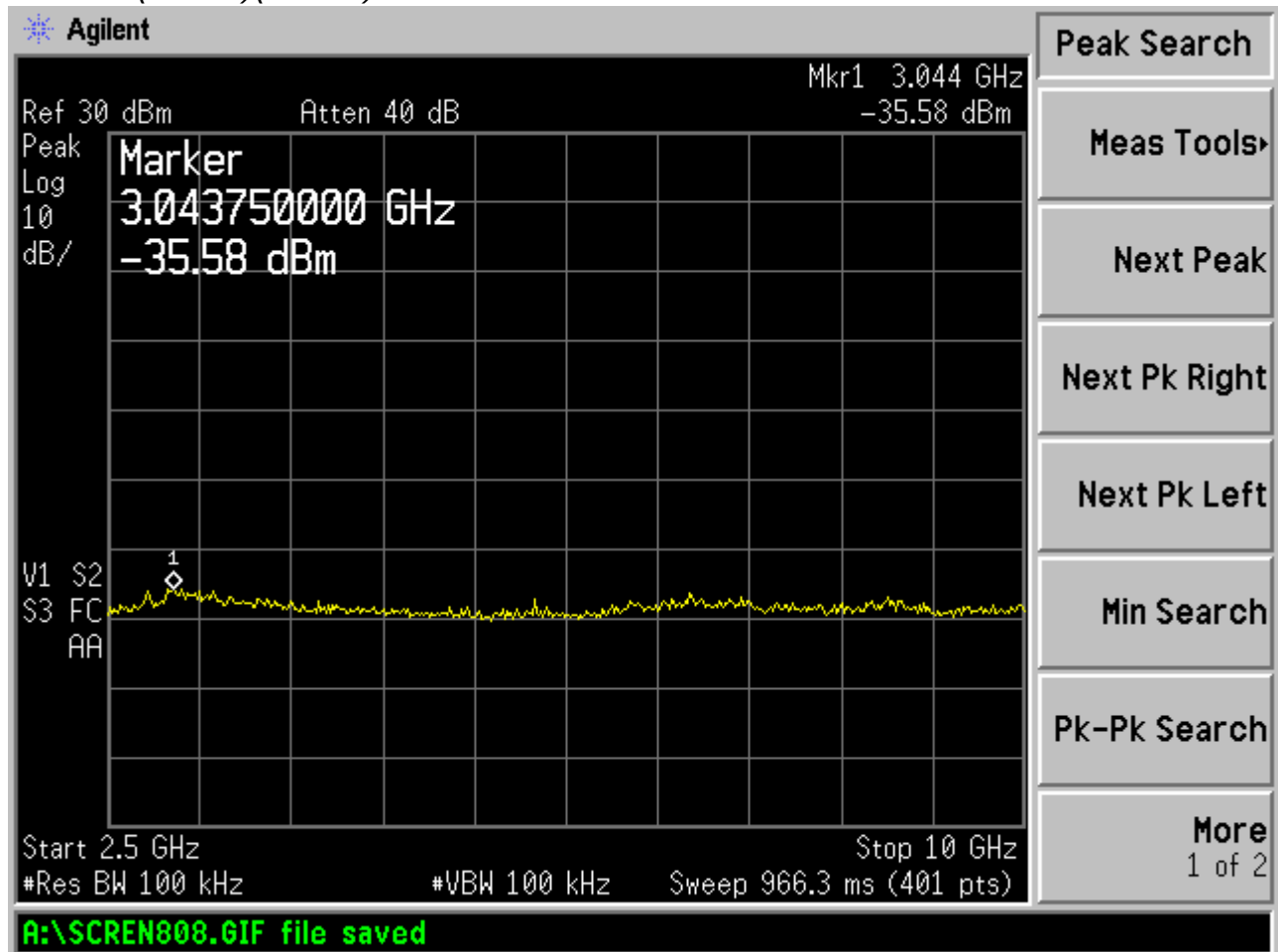
802.11b (CH11)(2 of 5)



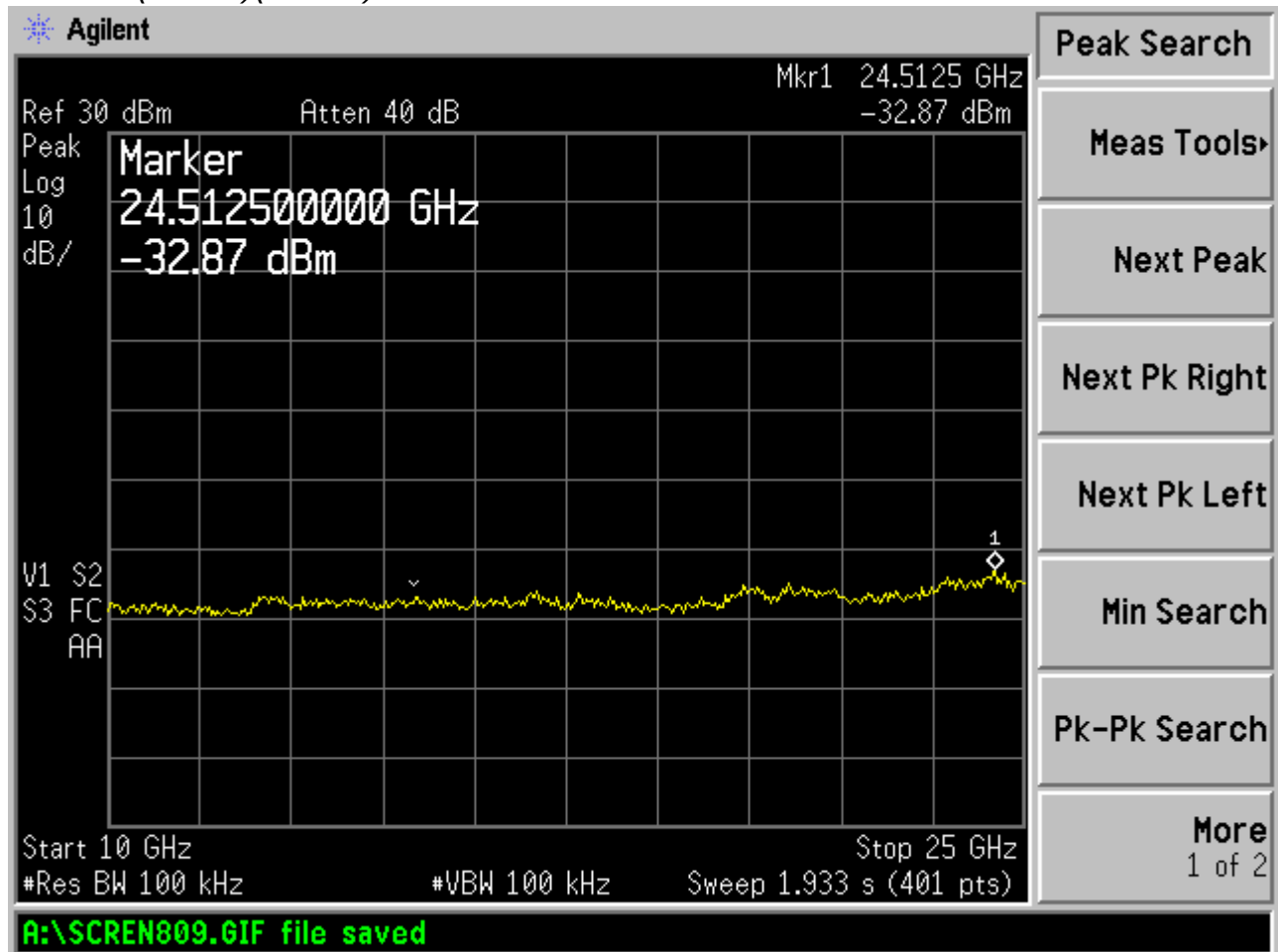
802.11b (CH11)(3 of 5)



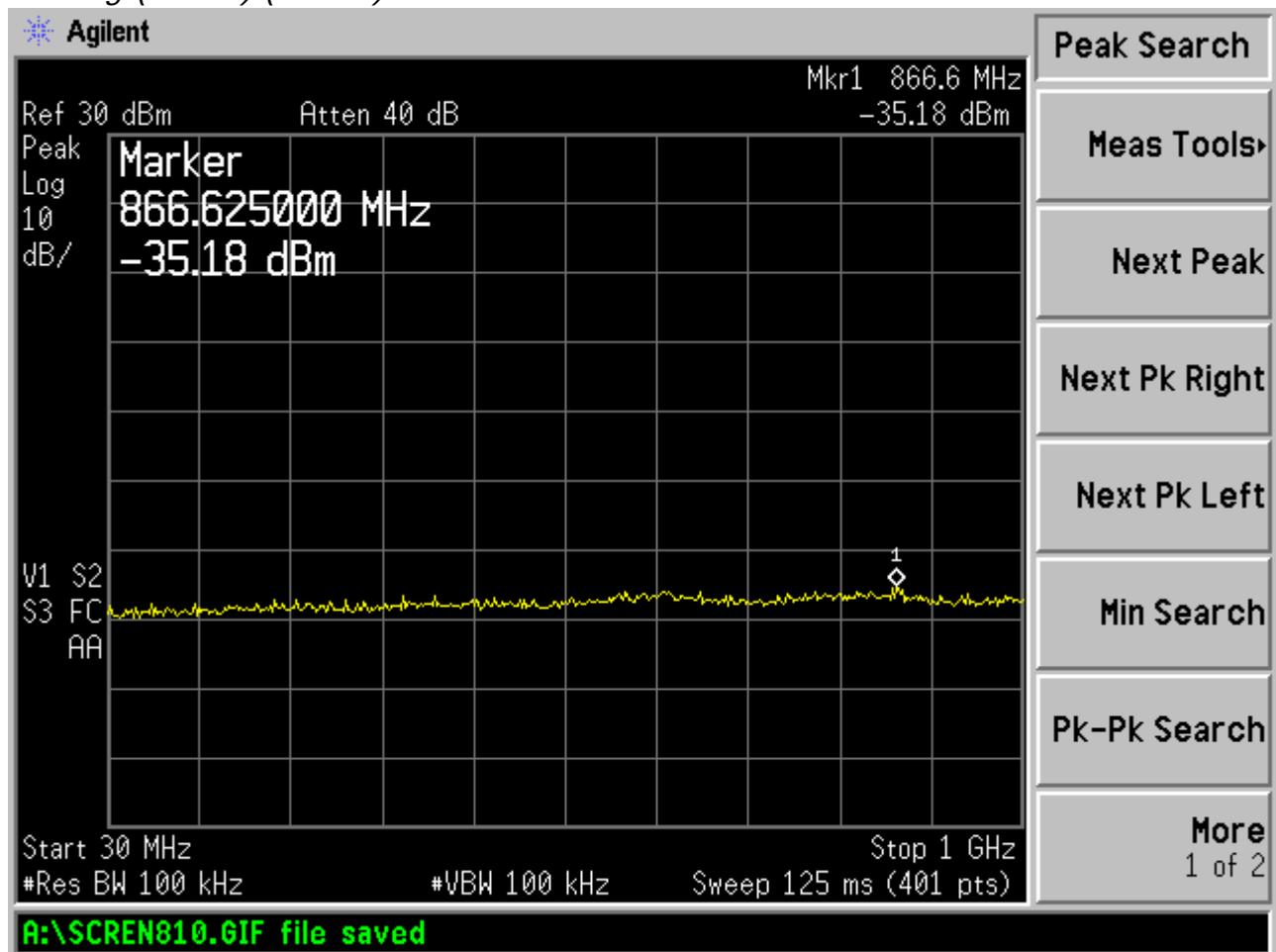
802.11b (CH11)(4 of 5)



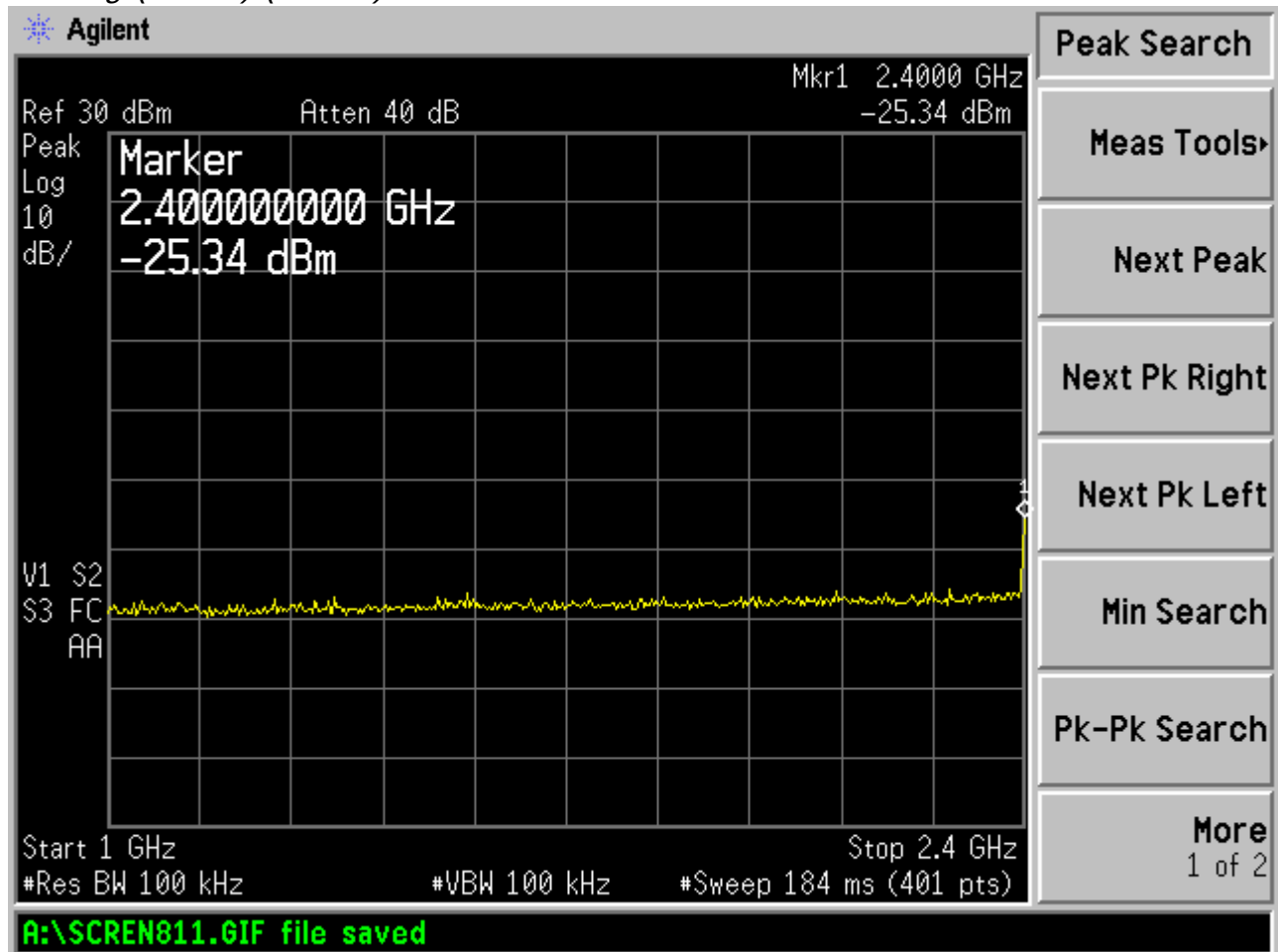
802.11b (CH11)(5 of 5)



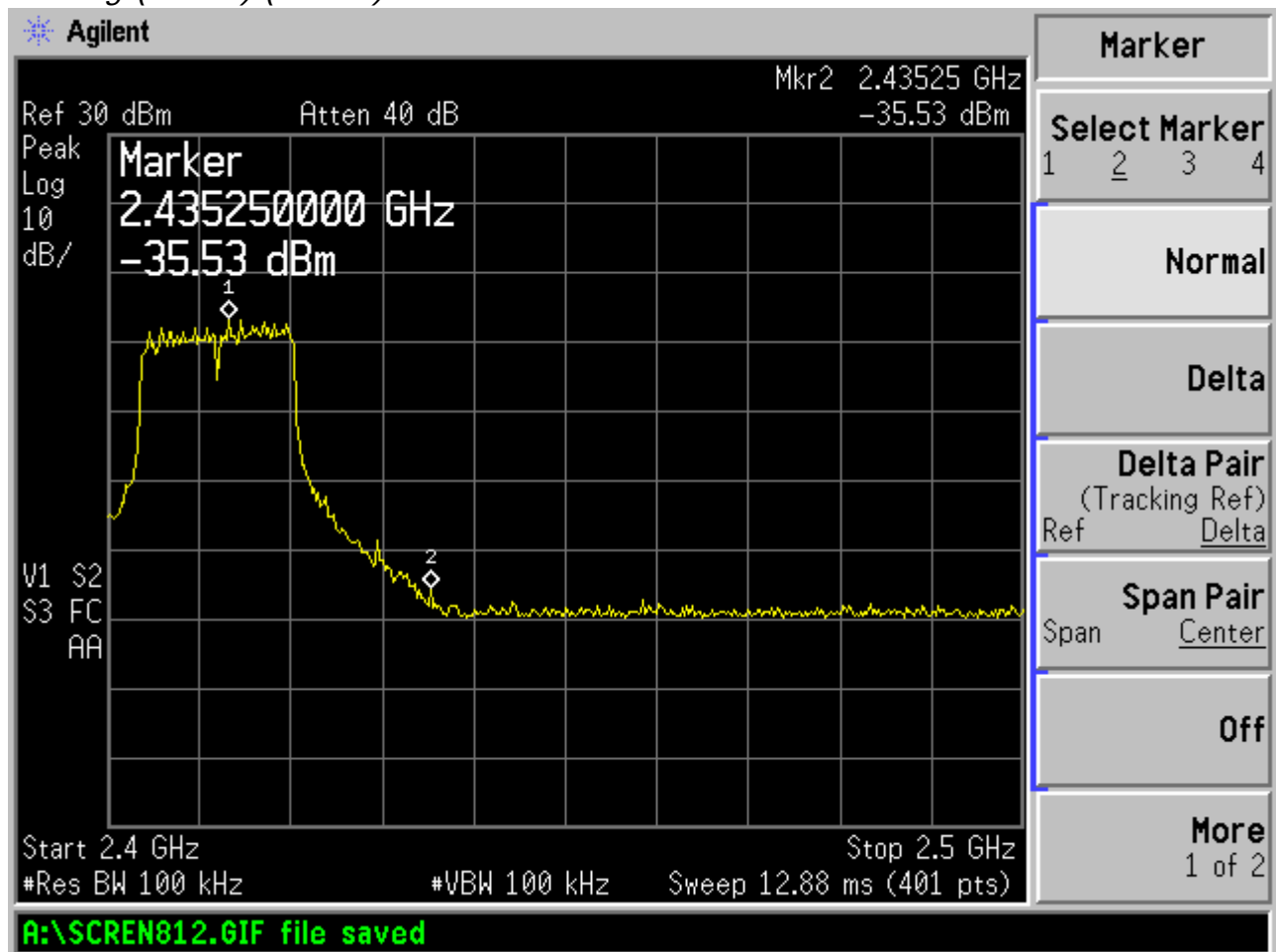
802.11g (CH01) (1 of 5)



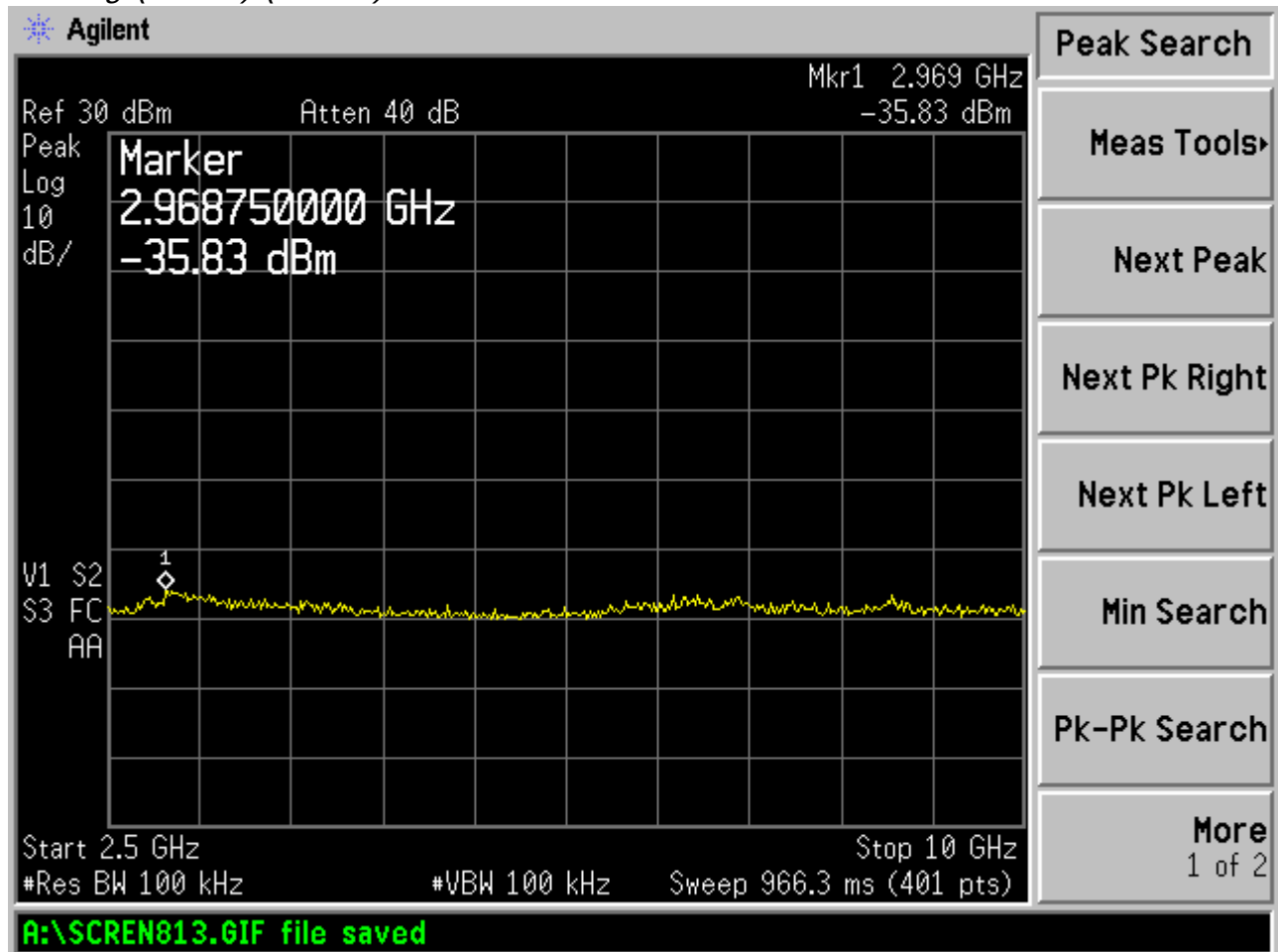
802.11g (CH01) (2 of 5)



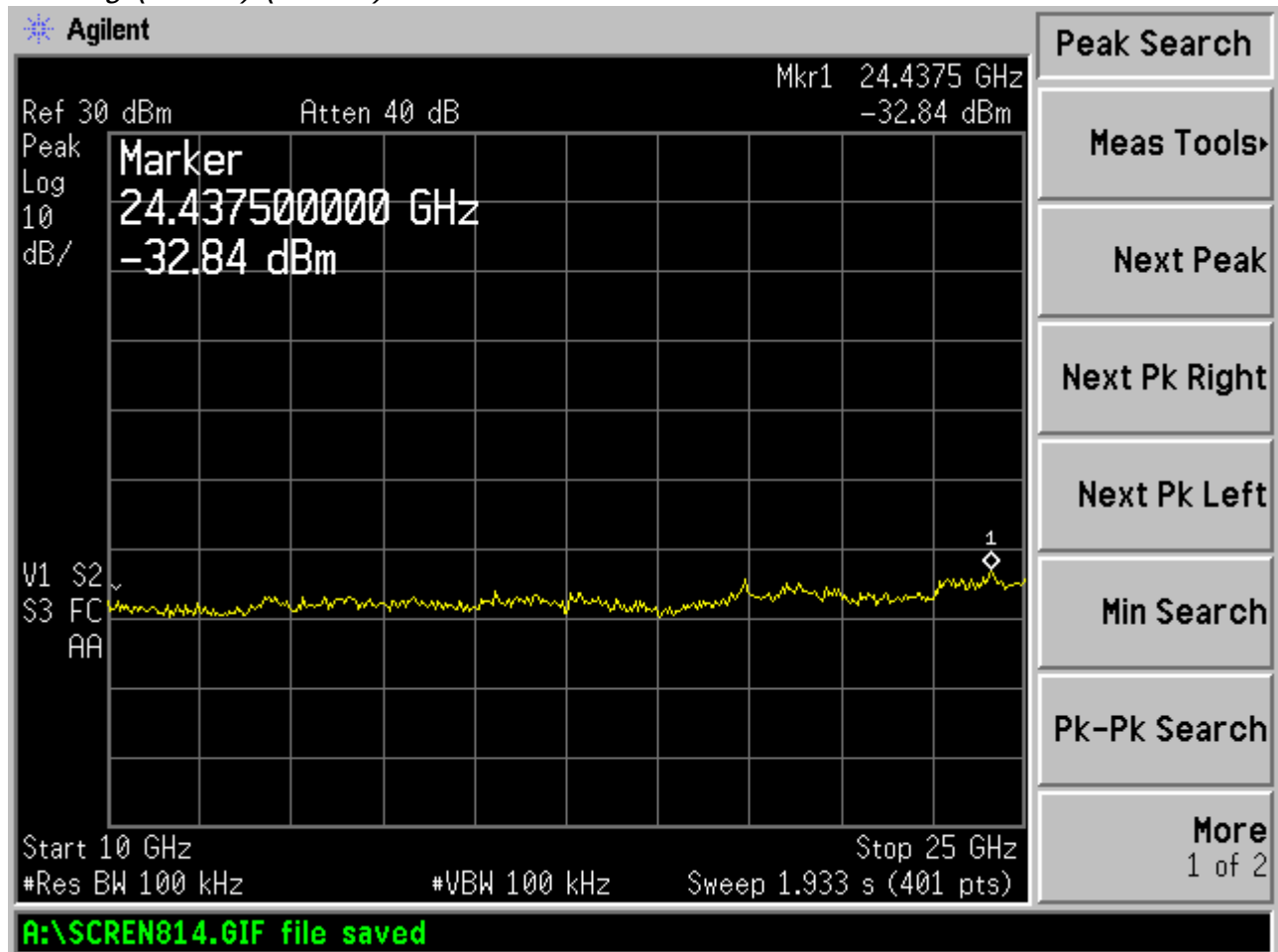
802.11g (CH01) (3 of 5)



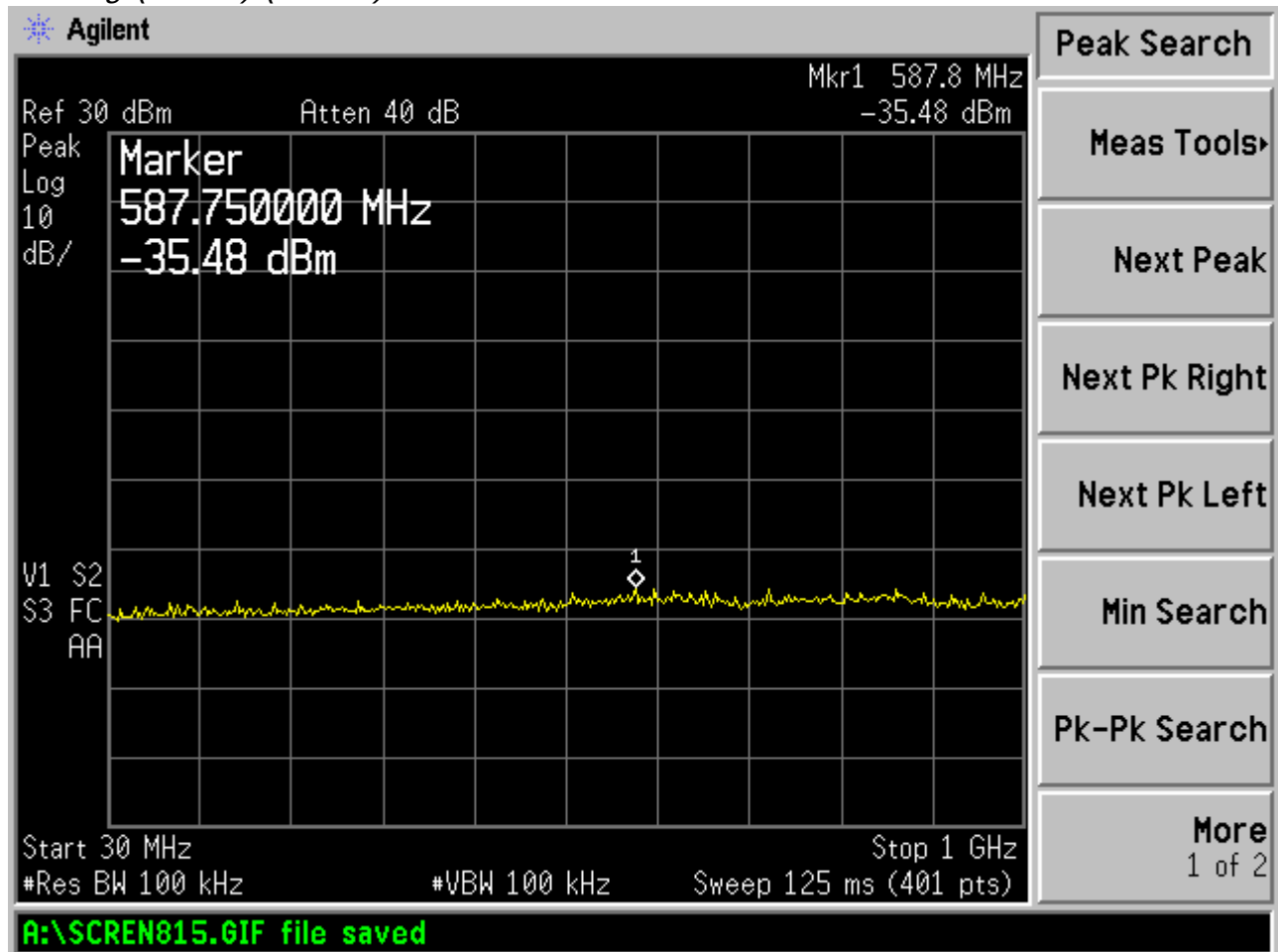
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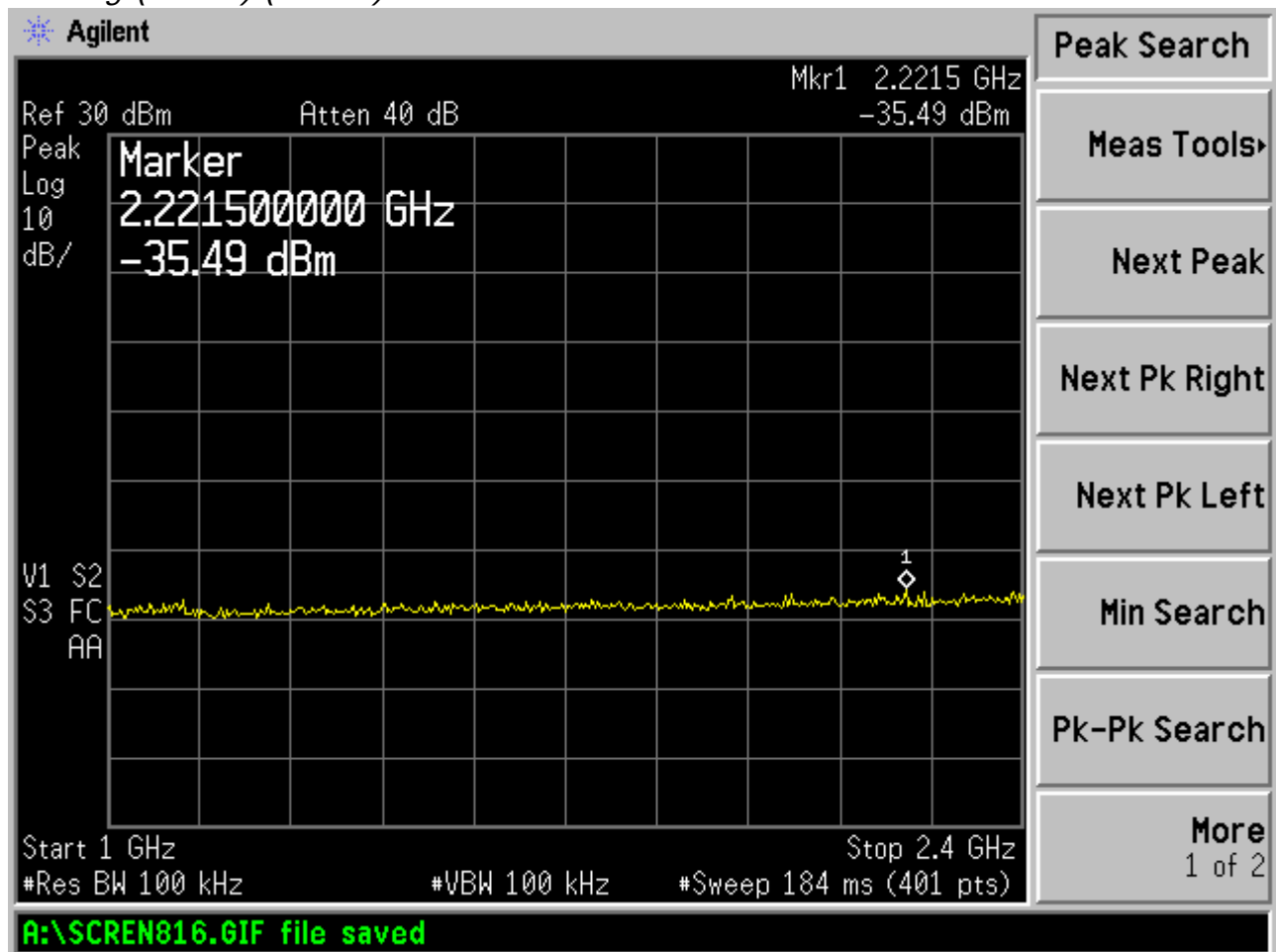
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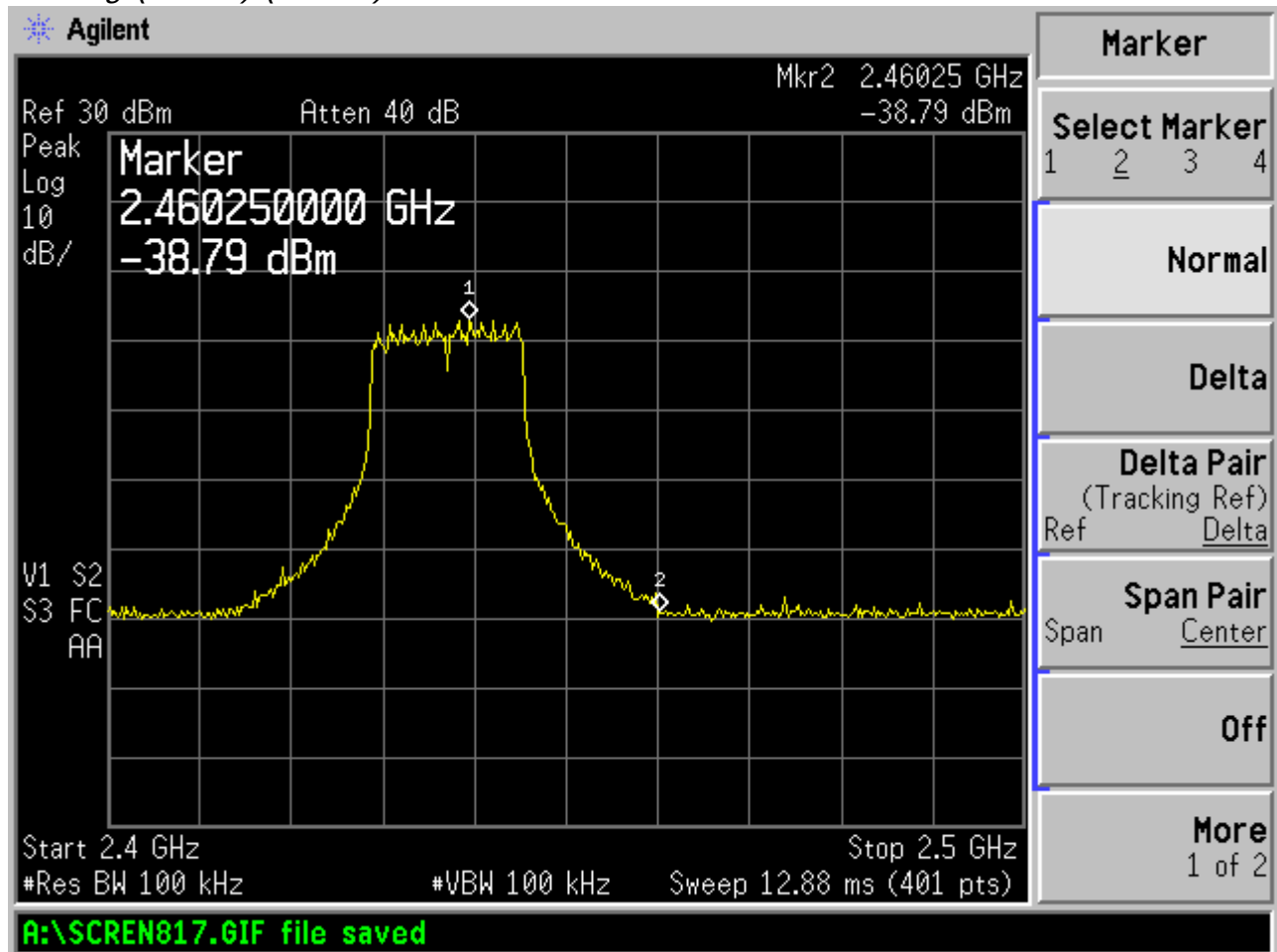
802.11g (CH06) (1 of 5)



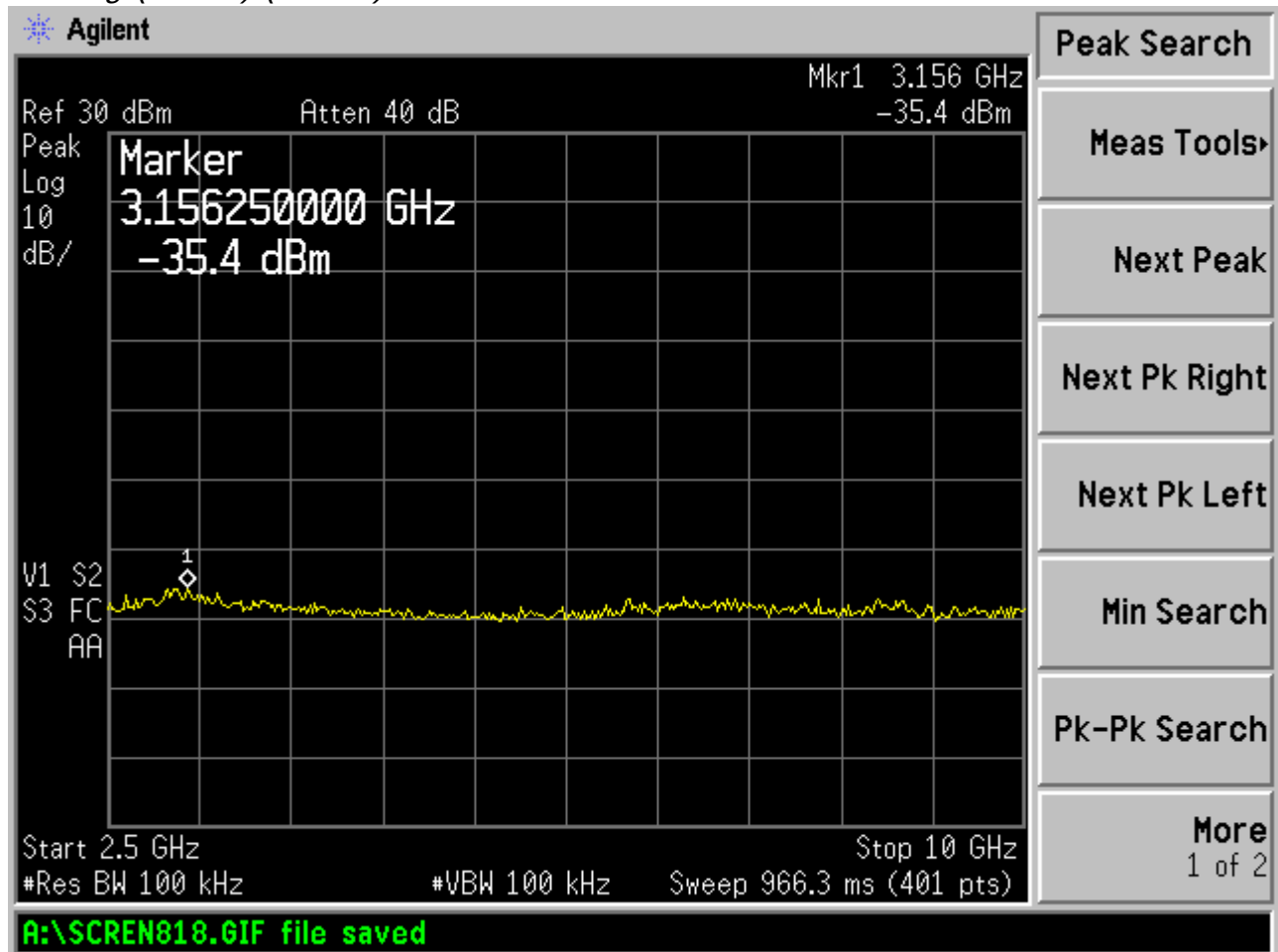
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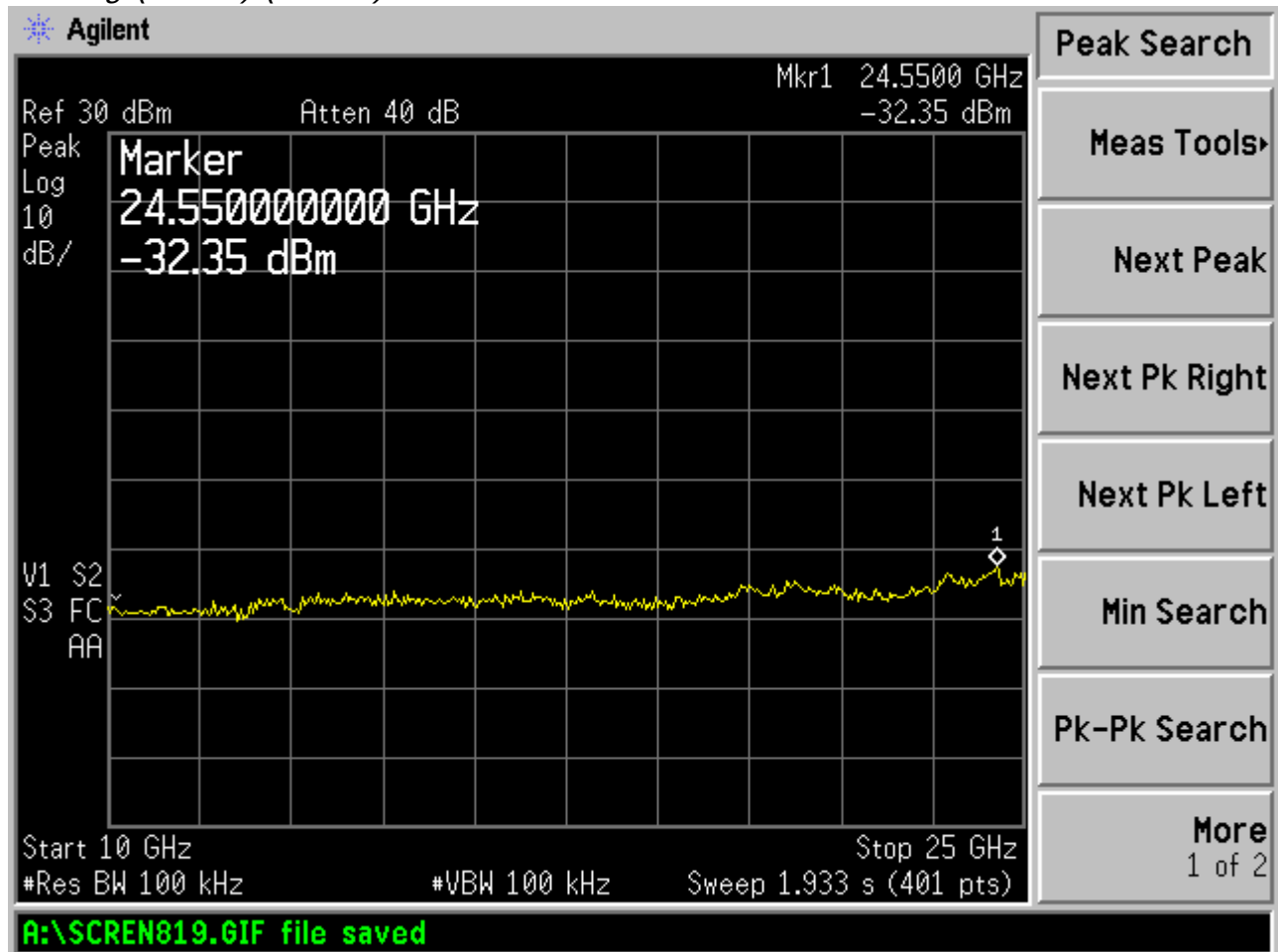
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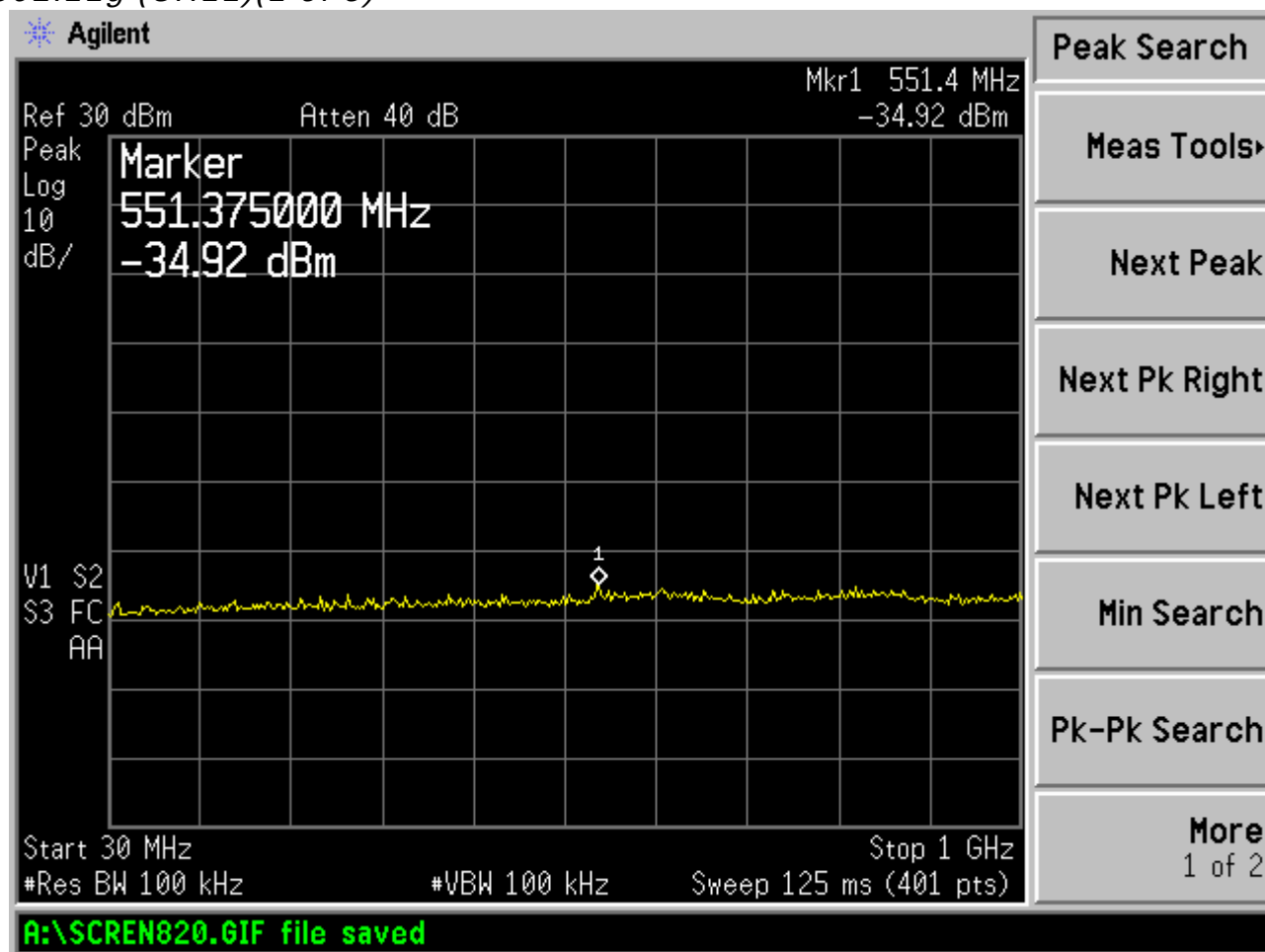
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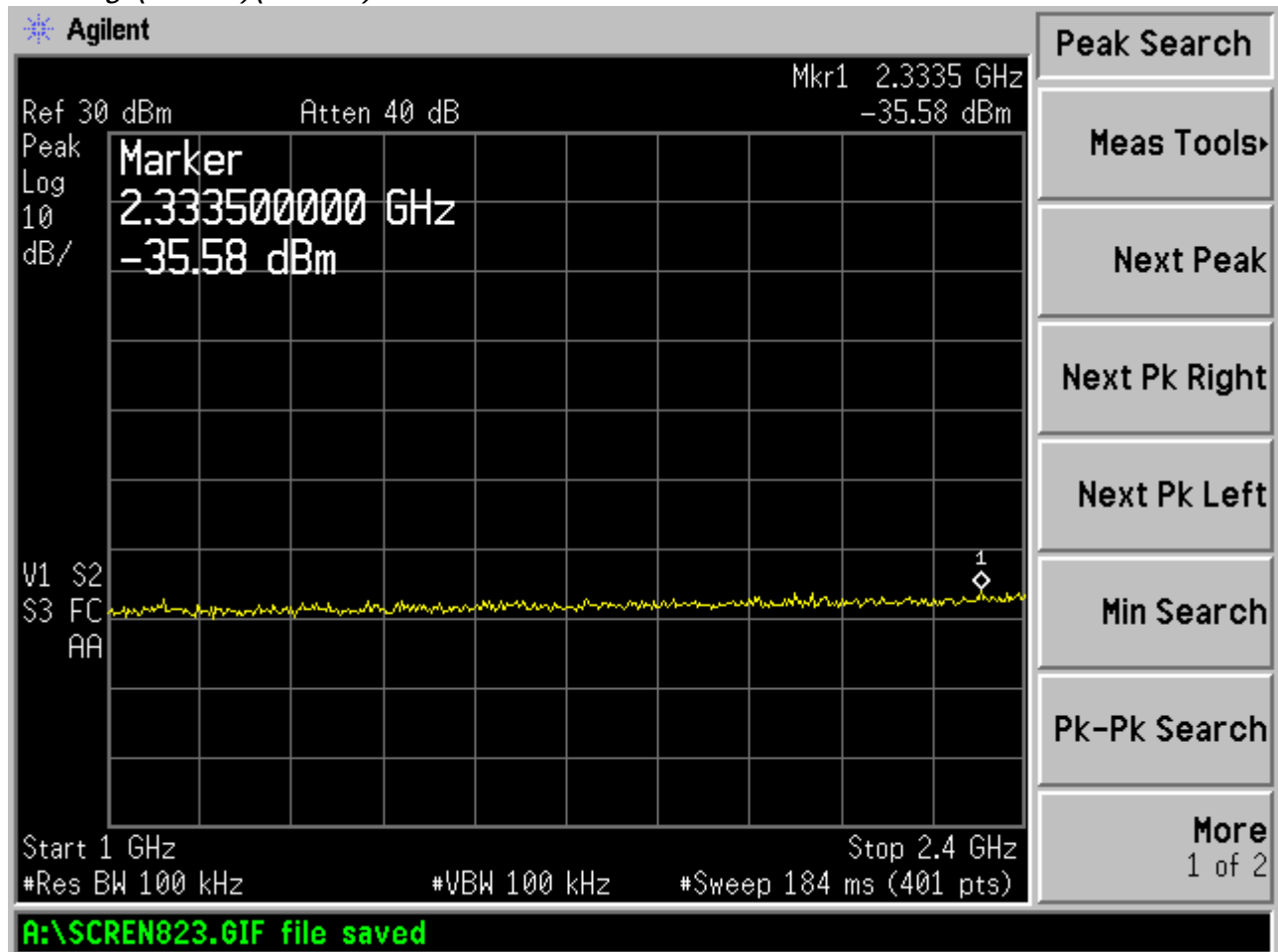
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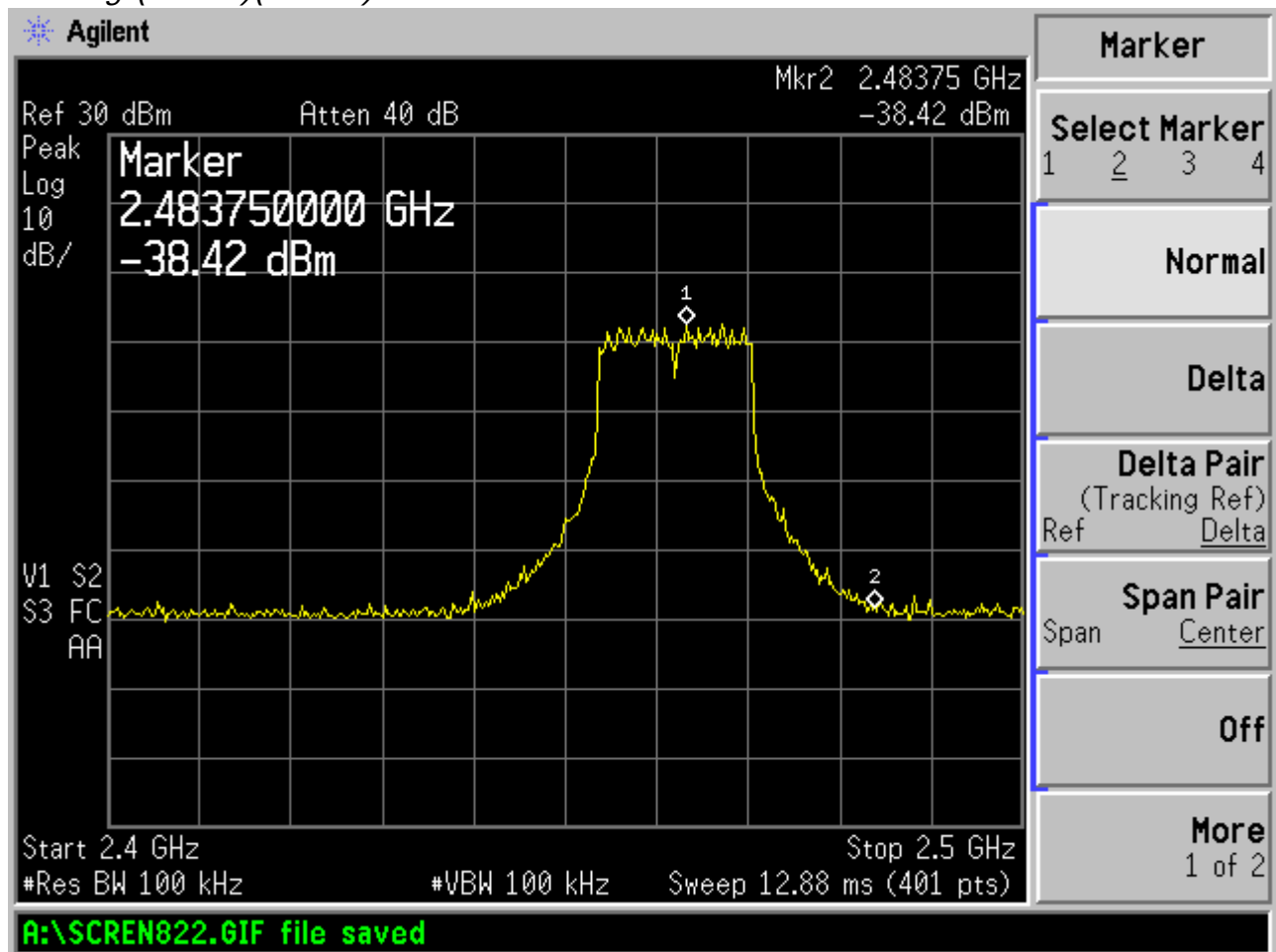
802.11g (CH11)(1 of 5)



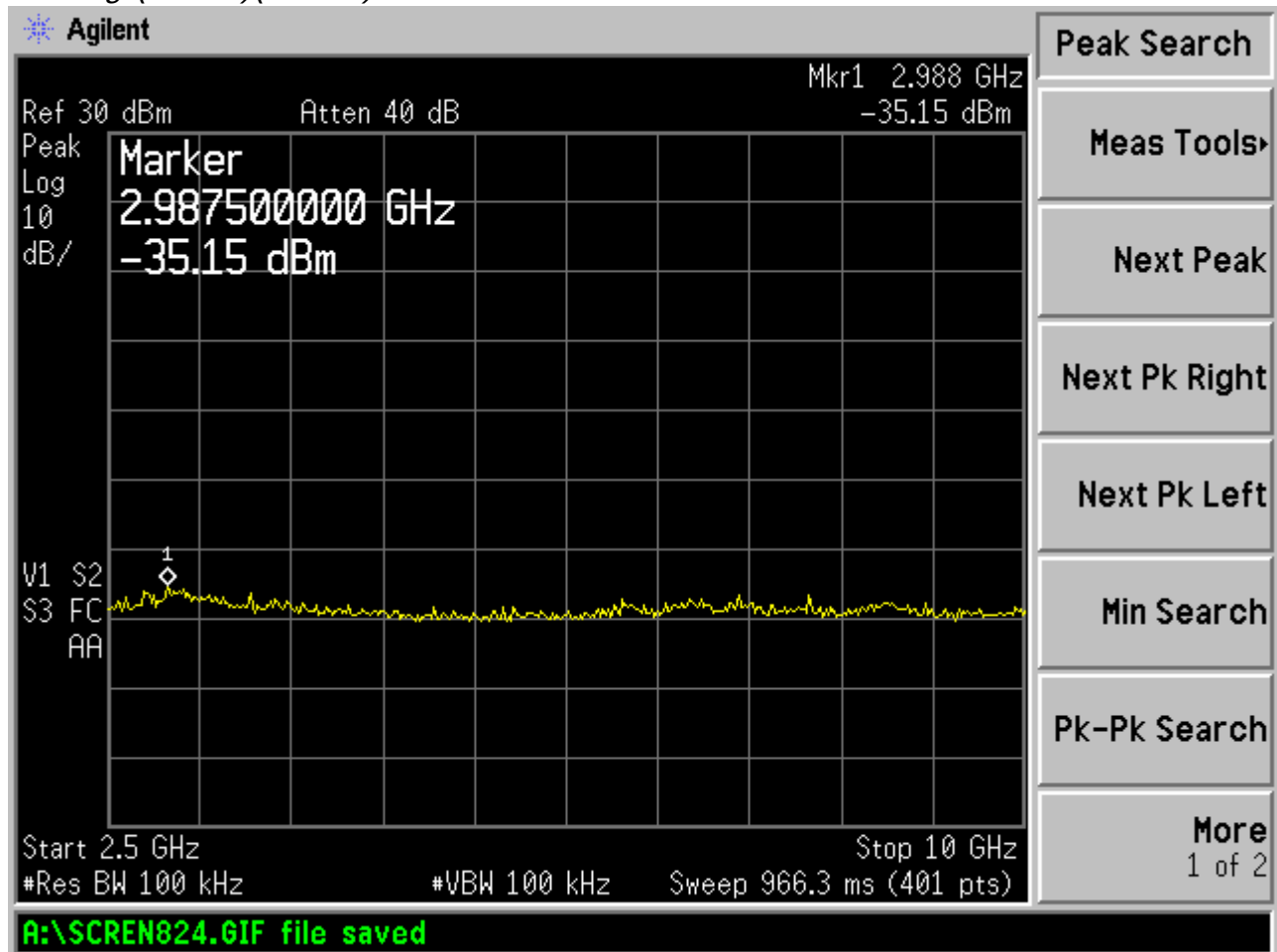
802.11g (CH11)(2 of 5)



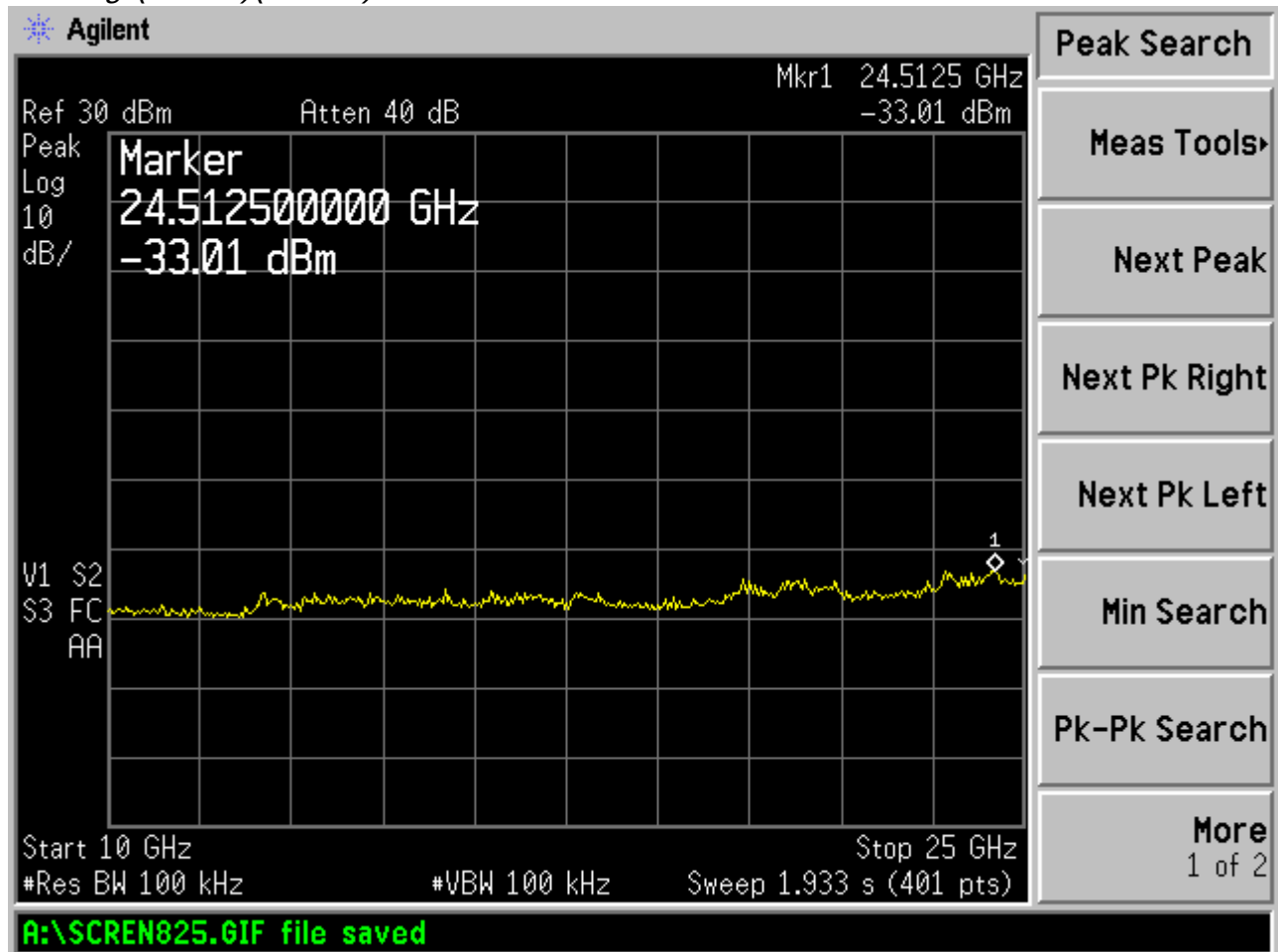
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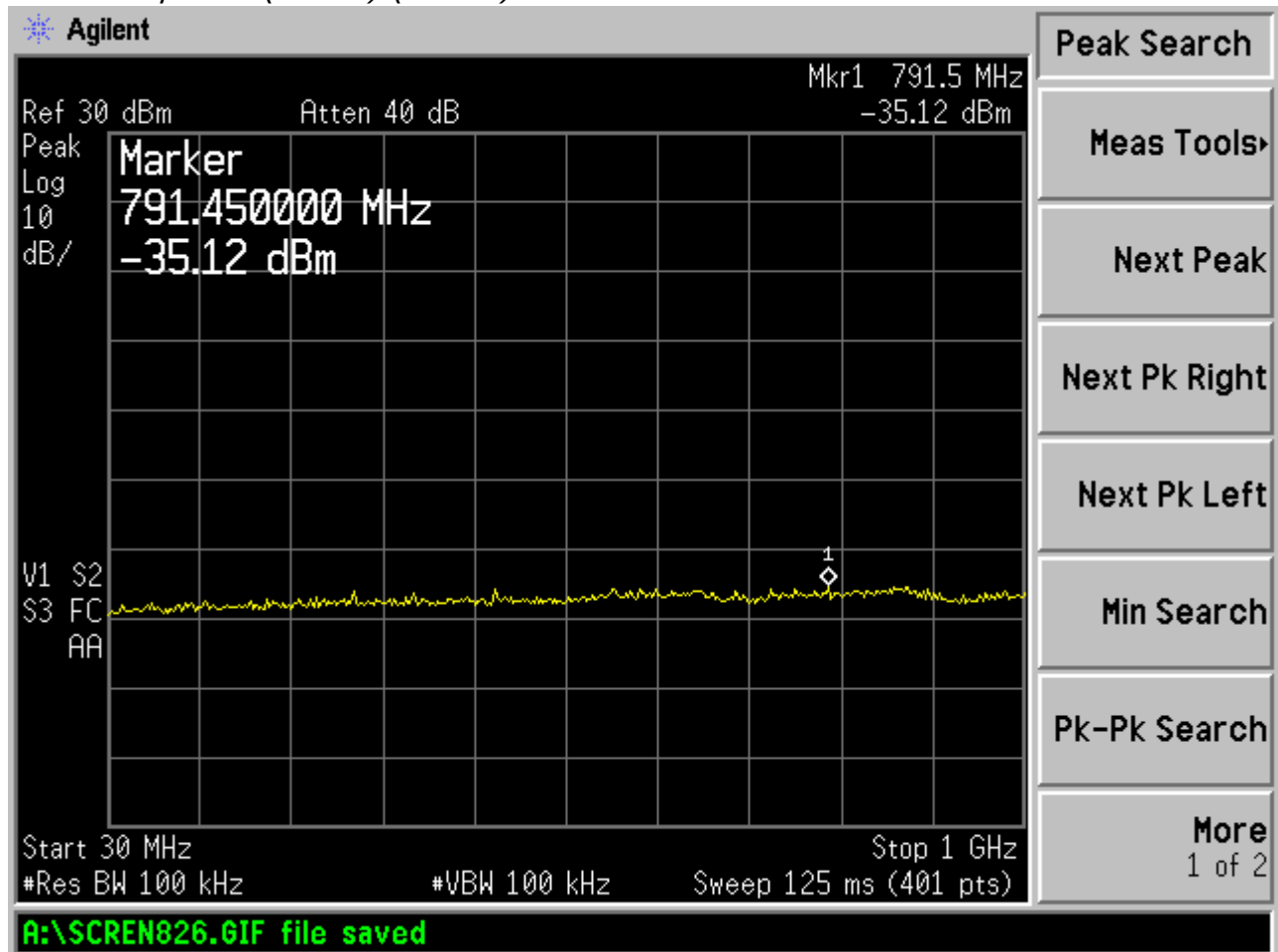
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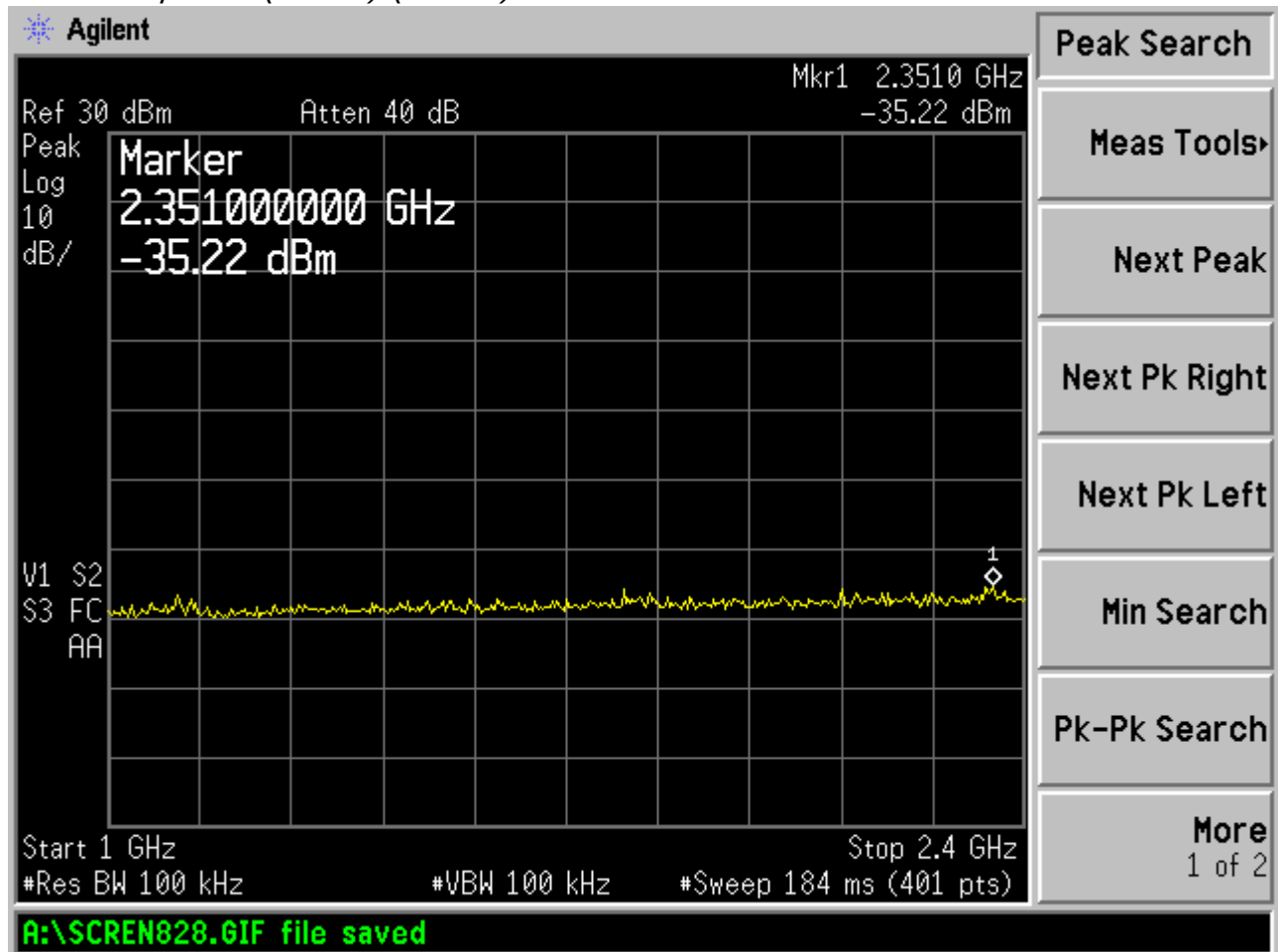
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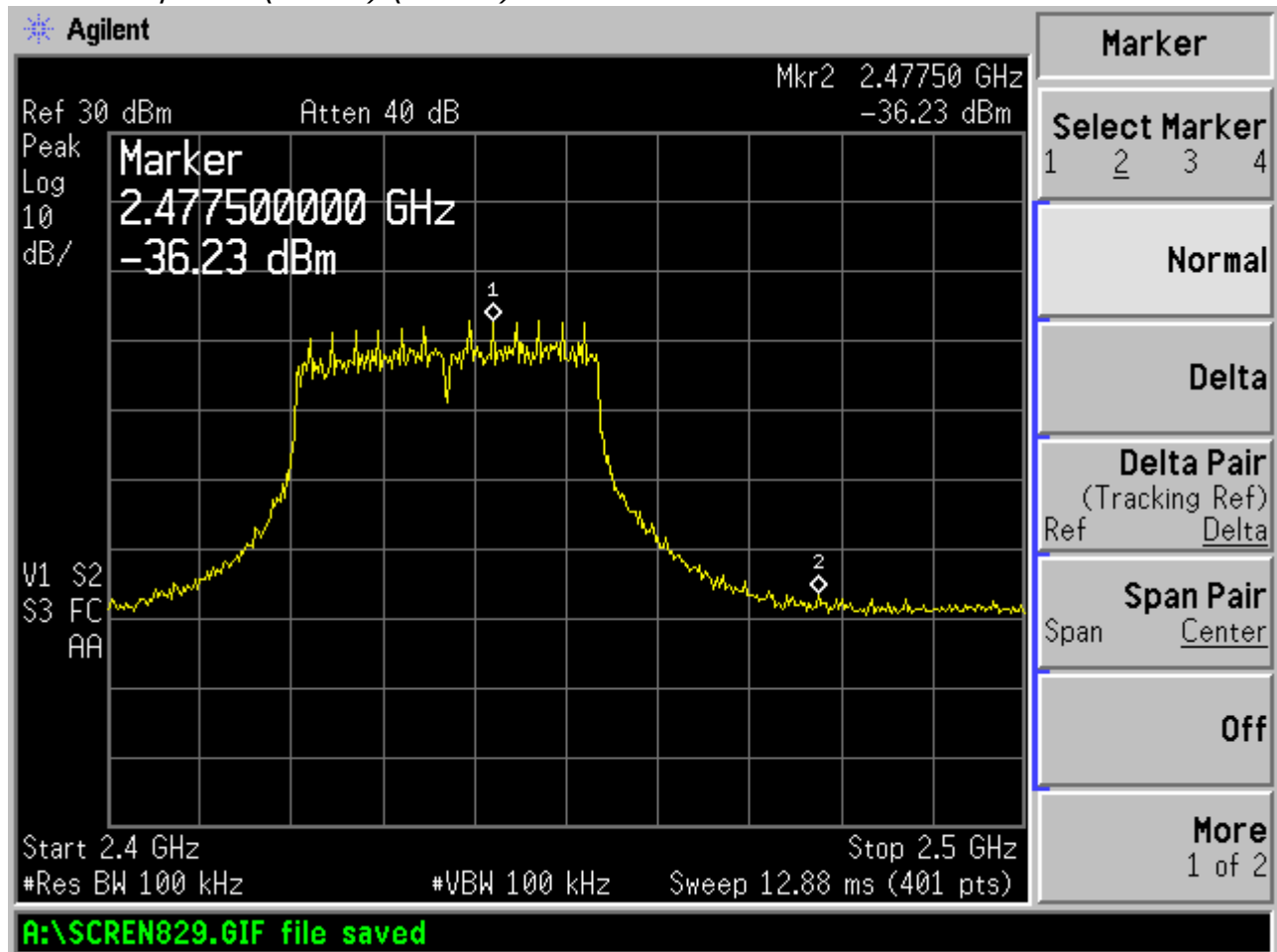
802.11 Super G (CH06) (1 of 5)



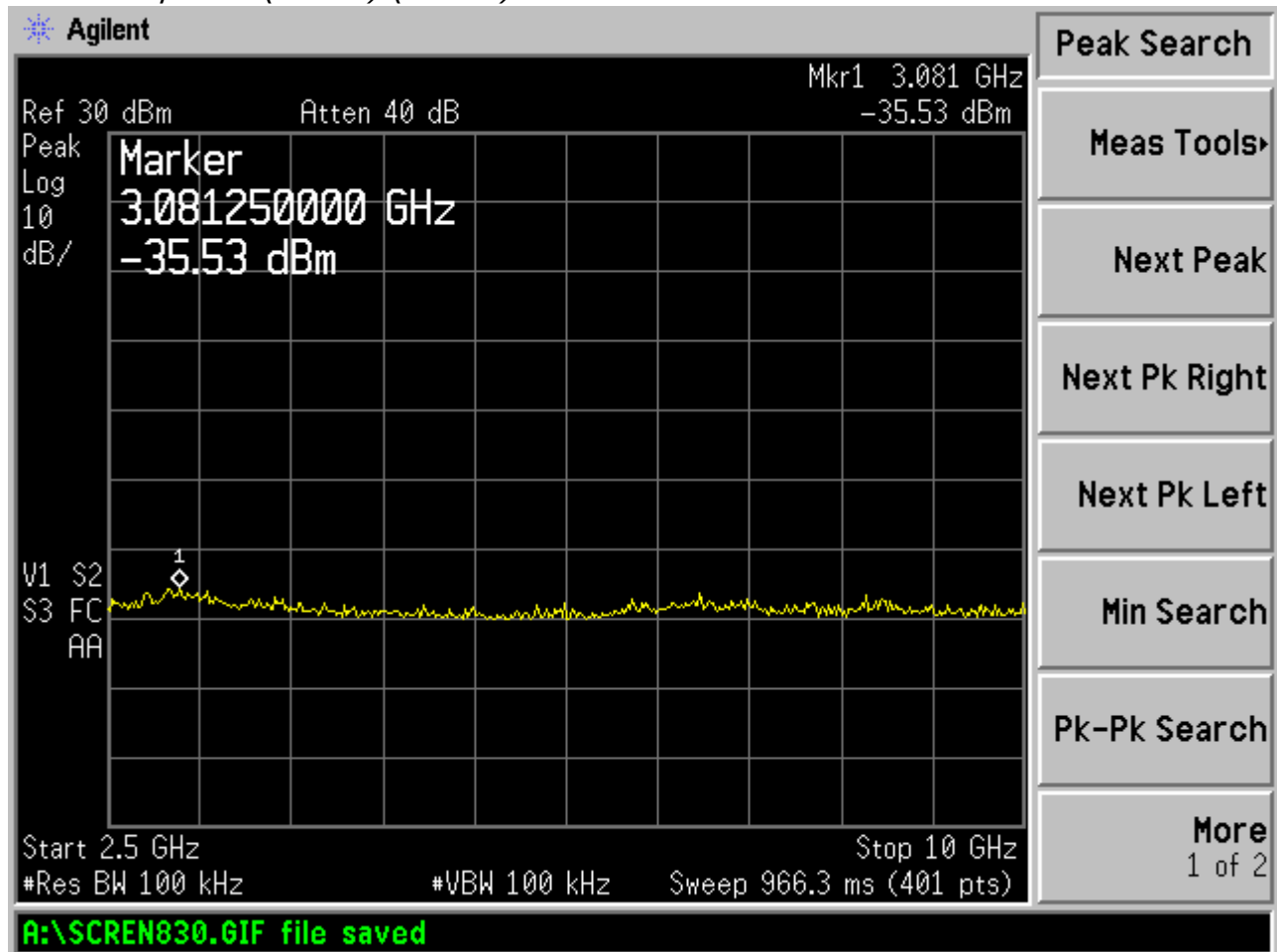
802.11 Super G (CH06) (2 of 5)



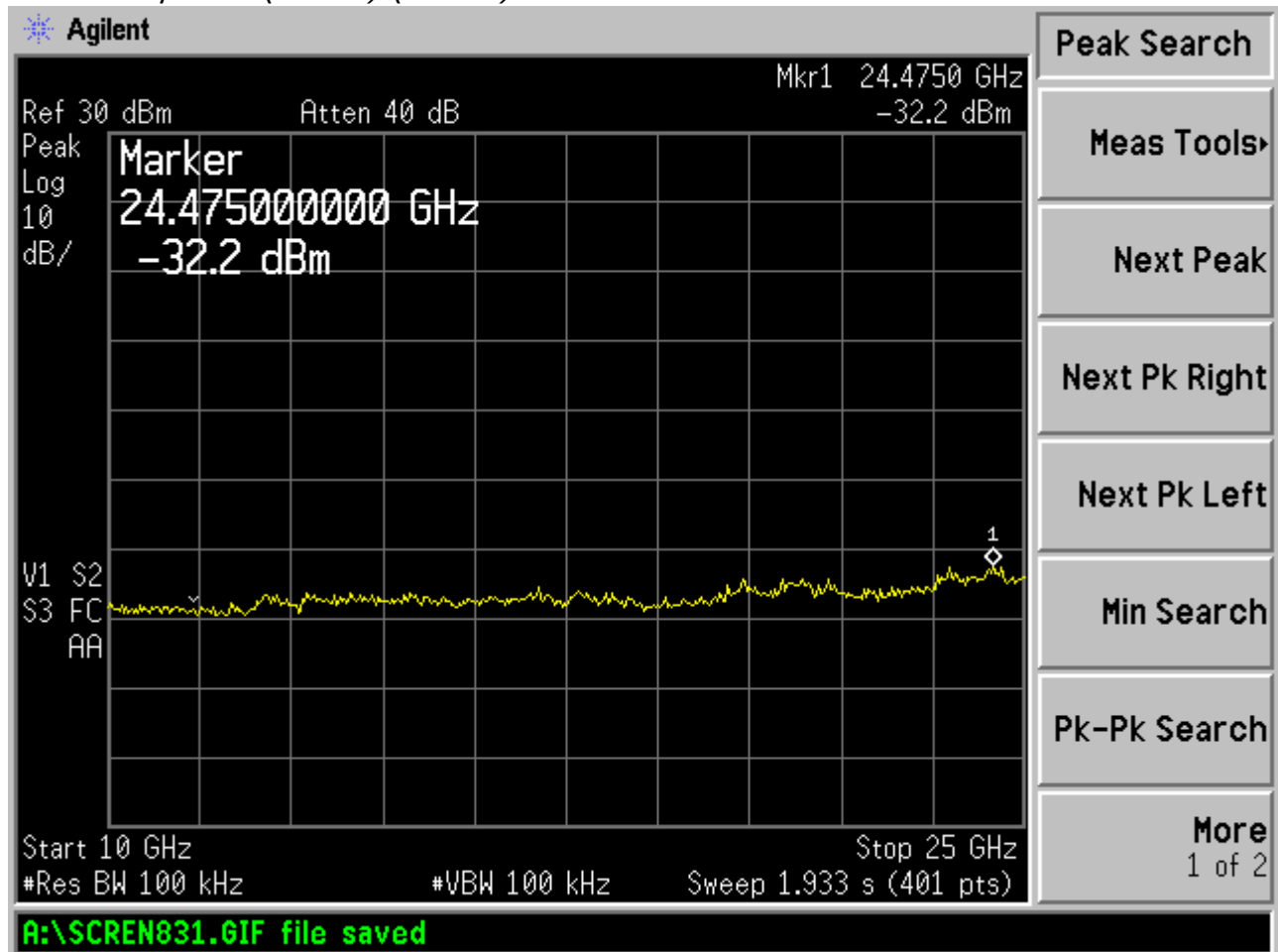
802.11 Super G (CH06) (3 of 5)



802.11 Super G (CH06) (4 of 5)



802.11 Super G (CH06) (5 of 5)



VIII. Band Edges Requirements

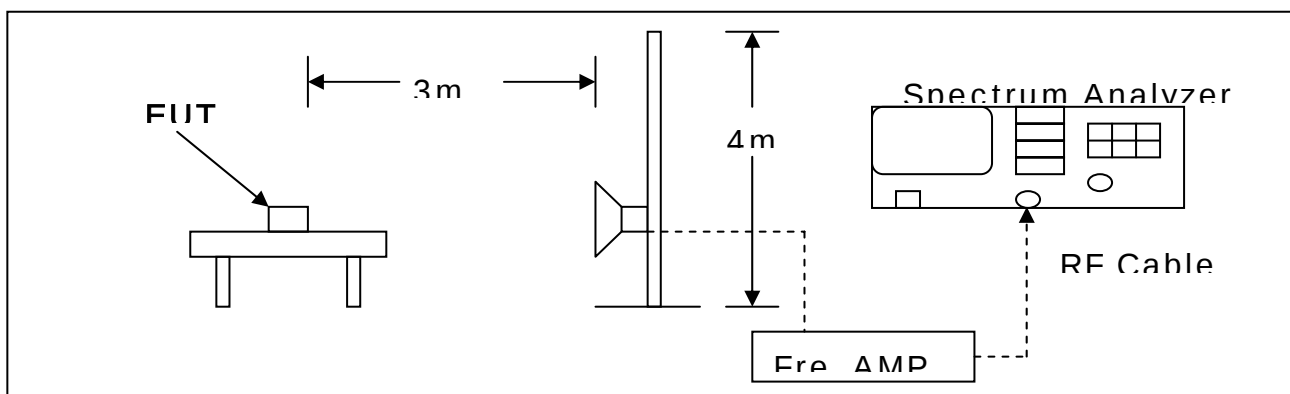
8.1 Test Condition & Setup :

The emissions on the harmonics frequencies, the limits, and the margin of compliance are presented. These tests were made when the transmitter was in full radiated power. The additional test was performed to show compliance with the requirement at the band-edge frequency 2483.5 MHz and up to 2500 MHz and at 2390.0 MHz.

The transmitter was configured with the worst case antenna and setup to transmit at the highest channel. Then the field strength was measured at 2483.5 MHz.

The transmitter was then configured with the worst case antenna and setup to transmit at the lowest channel. Then the field strength was measured at 2390.0 MHz. These tests were performed at 4 different bit rates.

8.2 Test Instruments Configuration:



8.3 Test Equipment List:

Item	Mfr/Brand	Instruments	Serial No.	Model/Type No.	Calibrated Date	Next Cali. Date
1.	Agilent	Spectrum Analyzer	US39240419	E4407B	2006/02/01	2007/02/01
2.	HP	Pre Amplifier	3008A01463	8449B	2006/02/23	2006/02/23
3.	SCHWARZBECK	Horn Antenna	304	BBHA 9120 D	2005/07/06	2006/07/06

8.4 Test Result: (802.11b)

Radiated Emissions (HORIZONTAL) CH01								
Frequency (MHz)	Amplitude (dBuV/m)	Ant. (m)	Table (Degree)	Duty (dB)	Dist (dB)	Actual Amp (dBuV/m)	Limit (dBuV/m)	Margin (dB)
2390.00	55.00(PK)	1	250	0	9.54	45.46	74.00	-28.54
2390.00	50.36(AV)	1	250	0	9.54	40.82	54.00	-13.18
Radiated Emissions (VERTICAL) CH01								
Frequency (MHz)	Amplitude (dBuV/m)	Ant. (m)	Table (Degree)	Duty (dB)	Dist (dB)	Actual Amp (dBuV/m)	Limit (dBuV/m)	Margin (dB)
2386.24	52.14(PK)	1	100	0	9.54	42.60	74.00	-31.40
2386.24	48.06(AV)	1	100	0	9.54	38.52	54.00	-15.48

Radiated Emissions (HORIZONTAL) CH11								
Frequency (MHz)	Amplitude (dBuV/m)	Ant. (m)	Table (Degree)	Duty (dB)	Dist (dB)	Actual Amp (dBuV/m)	Limit (dBuV/m)	Margin (dB)
2483.60	56.61(PK)	1	290	0	9.54	47.07	74.00	-26.93
2483.60	49.25(AV)	1	290	0	9.54	39.71	54.00	-14.29
Radiated Emissions (VERTICAL) CH11								
Frequency (MHz)	Amplitude (dBuV/m)	Ant. (m)	Table (Degree)	Duty (dB)	Dist (dB)	Actual Amp (dBuV/m)	Limit (dBuV/m)	Margin (dB)
2483.80	51.97(PK)	1	330	0	9.54	42.43	74.00	-31.57
2483.80	47.48(AV)	1	330	0	9.54	37.94	54.00	-16.06

Notes : 1.Margin= Amplitude - Limits

2.Height of table for EUT placed: 0.8 Meter.

3.ANT= Antenna height.

4.Duty= Duty cycle correction factor.

5.Dis= Distance extrapolation factor.

6.Amplitude= Reading Amplitude – Amplifier gain+ Cable loss
+Antenna factor

(Auto calculate in spectrum analyzer)

7.Actual Amp= Amplitude – Duty – Dis.

8.5 Test Result: (802.11g)

Radiated Emissions (HORIZONTAL) CH1								
Frequency (MHz)	Amplitude (dBuV/m)	Ant. (m)	Table (Degree)	Duty (dB)	Dist (dB)	Actual Amp (dBuV/m)	Limit (dBuV/m)	Margin (dB)
2390.00	51.23(PK)	1	300	0	9.54	41.69	74.00	-32.31
2390.00	43.06(AV)	1	300	0	9.54	33.52	54.00	-20.48
Radiated Emissions (VERTICAL) CH1								
Frequency (MHz)	Amplitude (dBuV/m)	Ant. (m)	Table (Degree)	Duty (dB)	Dist (dB)	Actual Amp (dBuV/m)	Limit (dBuV/m)	Margin (dB)
2390.00	62.78(PK)	1	240	0	9.54	53.24	74.00	-20.76
2390.00	50.79(AV)	1	240	0	9.54	41.25	54.00	-12.75

Radiated Emissions (HORIZONTAL) CH11								
Frequency (MHz)	Amplitude (dBuV/m)	Ant. (m)	Table (Degree)	Duty (dB)	Dist (dB)	Actual Amp (dBuV/m)	Limit (dBuV/m)	Margin (dB)
2483.60	56.96(PK)	1	320	0	9.54	47.42	74.00	-26.58
2483.60	48.76(AV)	1	320	0	9.54	39.22	54.00	-14.78
Radiated Emissions (VERTICAL) CH11								
Frequency (MHz)	Amplitude (dBuV/m)	Ant. (m)	Table (Degree)	Duty (dB)	Dist (dB)	Actual Amp (dBuV/m)	Limit (dBuV/m)	Margin (dB)
2483.60	59.56(PK)	1	150	0	9.54	50.02	74.00	-23.98
2483.60	50.67(AV)	1	150	0	9.54	41.13	54.00	-12.87

Notes : 1.Margin= Amplitude - Limits

2.Height of table for EUT placed: 0.8 Meter.

3.ANT= Antenna height.

4.Duty= Duty cycle correction factor.

5.Dis= Distance extrapolation factor.

6.Amplitude= Reading Amplitude – Amplifier gain+ Cable loss
+Antenna factor

(Auto calculate in spectrum analyzer)

7.Actual Amp= Amplitude – Duty – Dis.

8.6 Test Result: (802.11 Super G)

Radiated Emissions (HORIZONTAL) CH6								
Frequency (MHz)	Amplitude (dBuV/m)	Ant. (m)	Table (Degree)	Duty (dB)	Dist (dB)	Actual Amp (dBuV/m)	Limit (dBuV/m)	Margin (dB)
2390.00	52.04(PK)	1	300	0	9.54	42.50	74.00	-31.50
2390.00	43.50(AV)	1	300	0	9.54	33.96	54.00	-20.04
Radiated Emissions (VERTICAL) CH6								
Frequency (MHz)	Amplitude (dBuV/m)	Ant. (m)	Table (Degree)	Duty (dB)	Dist (dB)	Actual Amp (dBuV/m)	Limit (dBuV/m)	Margin (dB)
2390.00	60.25(PK)	1	240	0	9.54	50.71	74.00	-23.29
2390.00	49.70(AV)	1	240	0	9.54	40.16	54.00	-13.84

Radiated Emissions (HORIZONTAL) CH6								
Frequency (MHz)	Amplitude (dBuV/m)	Ant. (m)	Table (Degree)	Duty (dB)	Dist (dB)	Actual Amp (dBuV/m)	Limit (dBuV/m)	Margin (dB)
2483.60	55.34(PK)	1	320	0	9.54	45.80	74.00	-28.20
2483.60	46.40(AV)	1	320	0	9.54	36.86	54.00	-17.14
Radiated Emissions (VERTICAL) CH6								
Frequency (MHz)	Amplitude (dBuV/m)	Ant. (m)	Table (Degree)	Duty (dB)	Dist (dB)	Actual Amp (dBuV/m)	Limit (dBuV/m)	Margin (dB)
2483.60	60.39(PK)	1	150	0	9.54	50.85	74.00	-23.15
2483.60	50.65(AV)	1	150	0	9.54	41.11	54.00	-12.89

Notes : 1.Margin= Amplitude - Limits

2.Height of table for EUT placed: 0.8 Meter.

3.ANT= Antenna height.

4.Duty= Duty cycle correction factor.

5.Dis= Distance extrapolation factor.

6.Amplitude= Reading Amplitude – Amplifier gain+Cable loss
+Antenna factor

(Auto calculate in spectrum analyzer)

7.Actual Amp= Amplitude – Duty – Dis.



IX. Antenna Requirements

9.1 Standard Applicable :

For intentional device, 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.

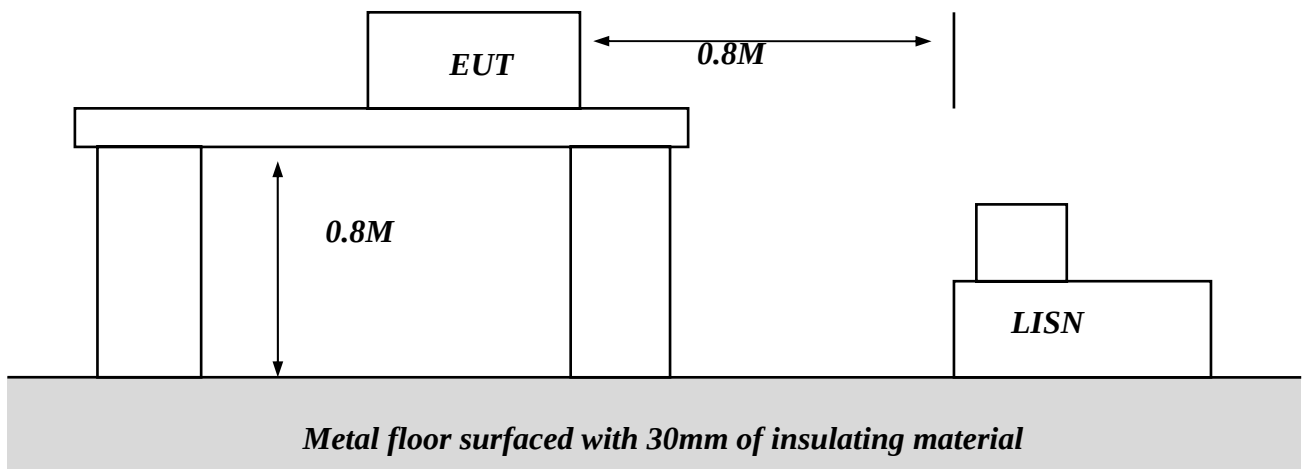
And According to 15.247 (b), if transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

9.2 Antenna Connector Construction

		ANT TYPE	GAIN	type of connector
1	ANTENEX ANT	1/4 λ DIOPLE antenna	3.0 dBi	Reverse SMA
2	STI-CO ANT	3/4 λ DIOPLE antenna	0.0 dBi	Reverse SMA

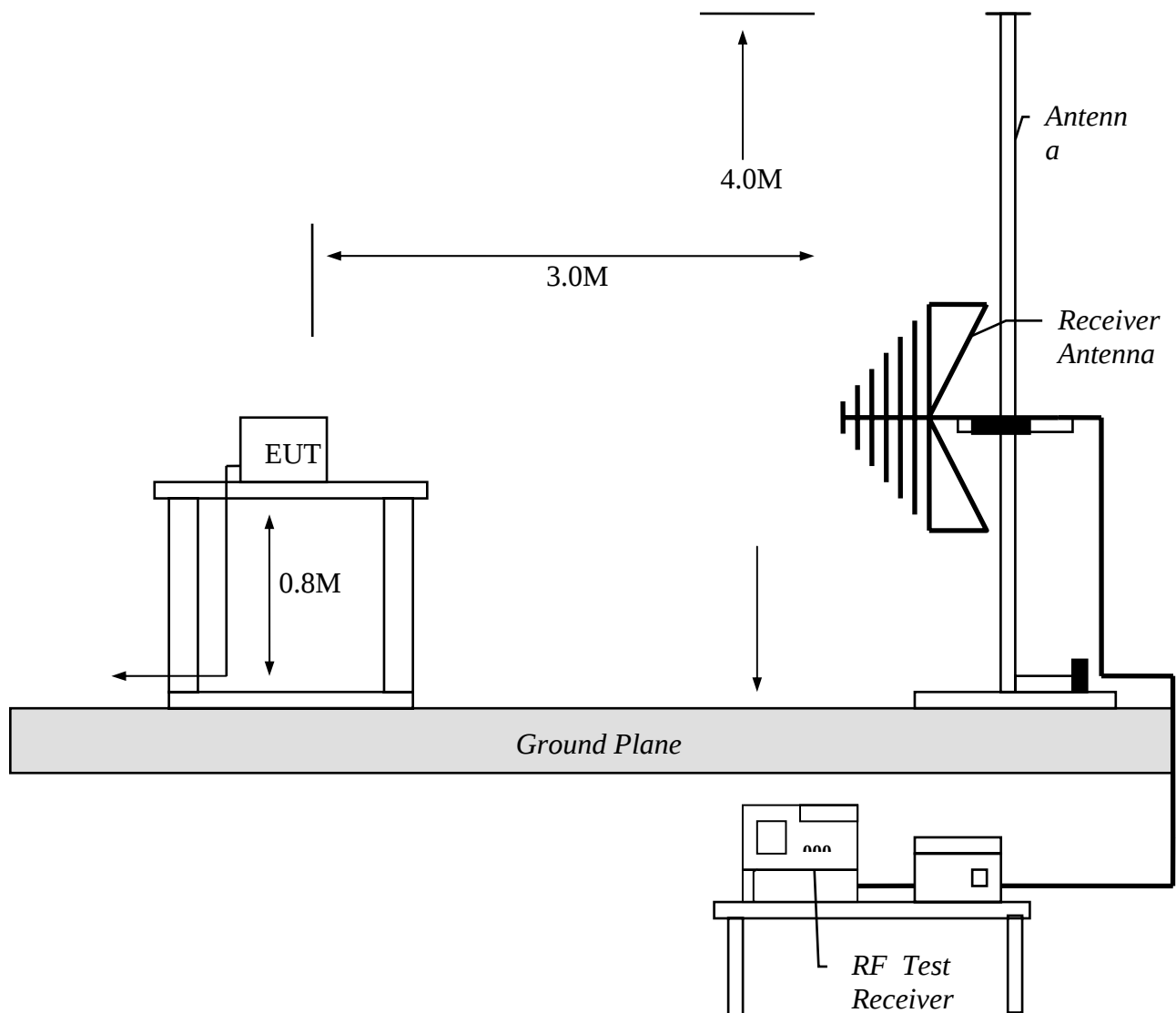
Appendix I- EUT Test SETUP

MEASUREMENT OF POWER LINE CONDUCTED RFI VOLTAGE



Appendix I- EUT Test SETUP

MEASUREMENT OF RADIATED EMISSION





MAX LIGHT
MEASUREMENT REPORT

EXHIBIT C

User Manual

Wireless LAN Adapter

Quick Installation Guide

Guide d'installation rapide

Anleitung zur Schnellinstallation

Guida Veloce all'Installazione

Guía rápida de instalación

Version 2.1

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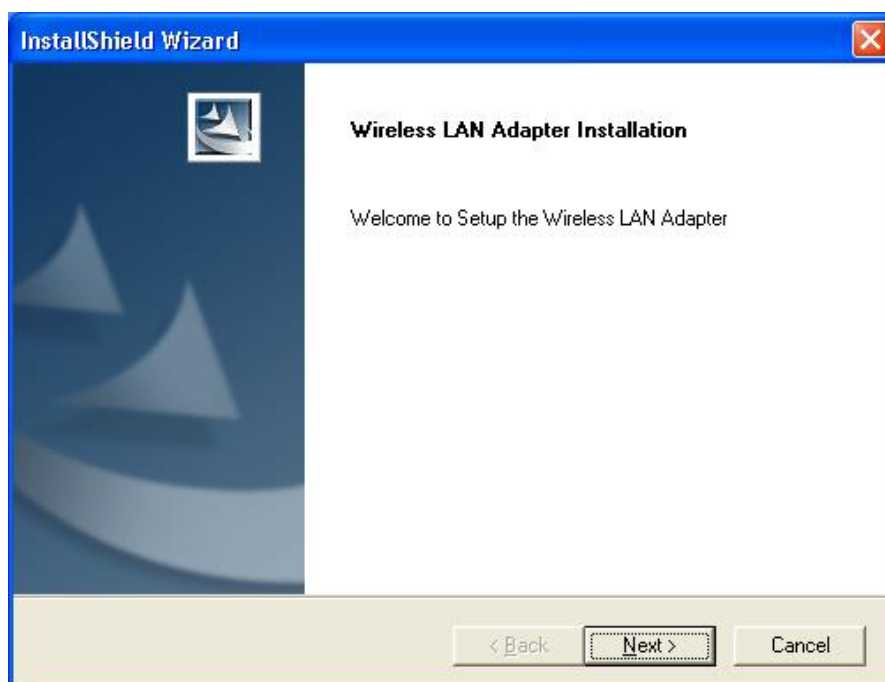
MAY. 2005

WLAN Adapter Quick installation Guide

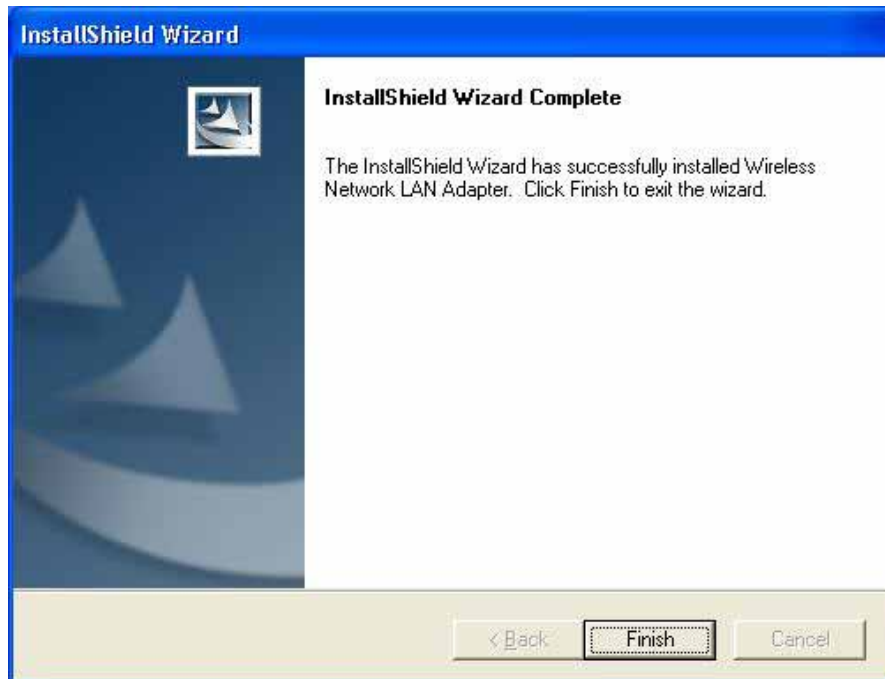
Note: Do not insert the WLAN adapter in your computer until you have finished installing the utility and Driver.

Utility and Driver Installation

1. Turn “**On**” your computer. Insert the driver CD for the **WLAN Adapter**.
2. Browse the CD content and find the “ **Setup.exe** ”.
3. Double click the “ **Setup.exe** ”.
4. Click “Next” and then follow the instructions on the screen to continue the installation.



5. Click the Finish button in this screen; both the driver and the Configuration Utility are installed on your computer.



Hardware Installation

For PCMCIA or USB adapters, simply insert or connect the adapter after running the setup file.

For PCI cards, you must shut down the computer, install the card in an available PCI slot, and restart the operating system.

After the computer boots back up, it will detect the wireless card and then start the New Hardware Found wizard. Respond to the prompts displayed by the wizard, and select the option, **“Install the software automatically (Recommended)”**; the operating system will find the driver automatically.

You can launch the Configuration Utility by clicking the left mouse button on the Configuration Utility icon and selecting Advanced Configuration.

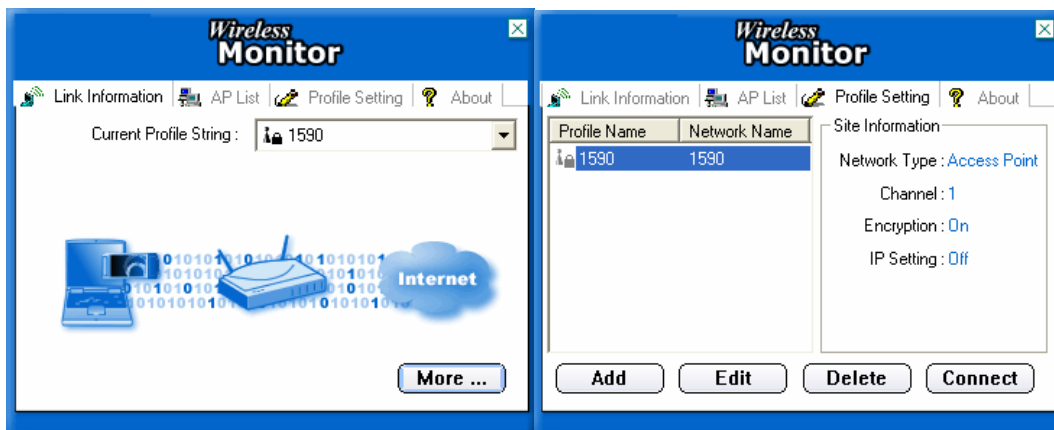


If the Configuration Utility icon is not displayed in the System Tray, you can restart the Configuration Utility from the Start Menu by selecting Programs and Wireless Network Utility Configuration.

The Configuration Utility consists of window with four tabs: Link Information, AP List, Profile Setting, and About. Please find information about these tabs in the User's Guide (from the CD contents, select User's Guide that shown with PDF format.)

Wireless Network Setup

1. **Peer-to-Peer:** Connects with other wireless client(s). This does not require Access Point. Please make sure the "Network Name" (SSID or ESSID) and "Peer-to-Peer" channel are the same for all clients in the same wireless network. Double click on the Configuration Utility icon to open the utility.
 - Click on "Profile Setting" tab and "Add" to create a new profile.
 - Enter a name that the profile correspond, click "Next".
 - Select the "Network Type", click on the drop-down arrow and select "Peer-to-Peer", and then at "Peer-to-Peer Channel", use the up/down arrows to select the channel number, and then click "Next".
 - Select the Authentication Mode to enable the "Encryption" if you have any security concern. Once you enable the encryption function, then you should input the corresponding key. Click "Next".
 - On IP Setting select "Enable" or "Disable" to make used of it. Click "Complete" to finish the configuration.



2. **Access Point:** Connects to wired Ethernet network via Access Point.
 - Click "AP List" tab.
 - Select the listed Wireless Network to Join.
 - Click "Connect" to join the network.

* Note: You might need to configure a Profile before if the destination network had a "WEP KEY" protected.

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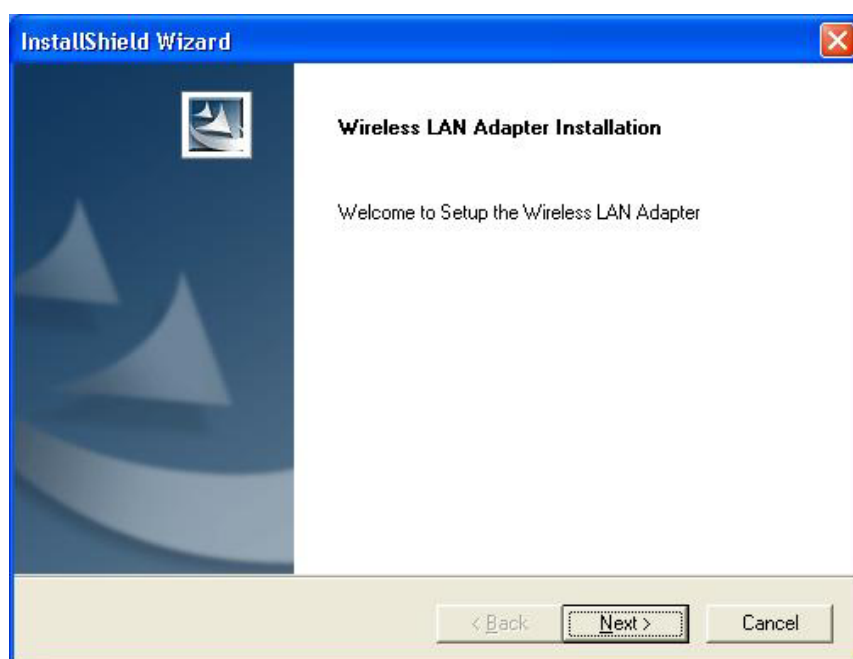
MAI. 2005

Guide d'installation rapide de l'adaptateur WLAN

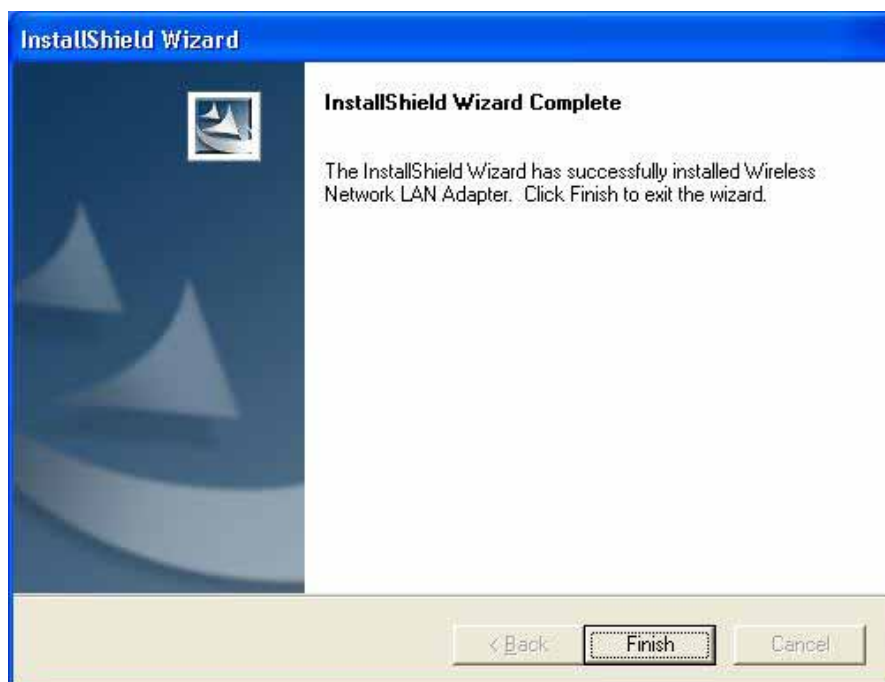
Note: N'insérez pas l'adaptateur WLAN dans votre ordinateur avant d'avoir installé le gestionnaire et le logiciel.

Installation de l'utilitaire et du gestionnaire

1. Allumez votre ordinateur. Insérez le CD pour le gestionnaire **WLAN Adapter**.
2. Trouvez " **Setup.exe** " sur le CD.
3. Double clic sur " **Setup.exe** ".
4. Cliquez « Suivant » puis suivez les instructions à l'écran pour poursuivre l'installation.



5. Cliquez sur le bouton « Fini »; l'utilitaire et le gestionnaire sont installés sur votre ordinateur.



Installation du matériel

Pour les adaptateurs PCMCIA ou USB, insérez ou branchez l'adaptateur une fois le fichier « setup » lancé.

Pour les cartes PCI, vous devez éteindre l'ordinateur, installer la carte dans une fente PCI disponible, et relancer le système d'opération.

Une fois l'ordinateur redémarré, il détectera la carte sans fil et lancera l'assistant de Nouveau matériel. Répondez aux questions affichées par l'assistant et choisissez l'option, « **Installez Logiciel Automatiquement (Recommandé)** »; le système d'opération trouvera le gestionnaire automatiquement.

Vous pouvez lancer l'utilitaire de configuration en cliquant sur l'icône correspondant et en choisissant la configuration avancée.

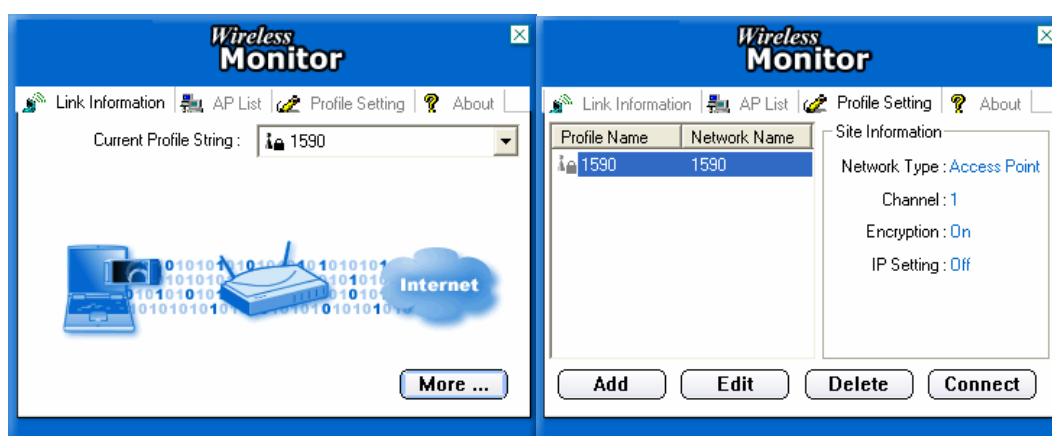


Si l'utilitaire de configuration n'est pas affiché dans le plateau de système, vous pouvez relancer l'utilitaire à partir du menu Démarrer en choisissant Programmes et Configuration d'utilitaire de réseau sans fil.

L'utilitaire de configuration comprend une fenêtre avec quatre languettes : Information de Line, Liste AP, Réglages de Profil, et À propos. Veuillez trouver l'information dans le guide de l'utilisateur (À partir des contenus du CD, choisissez le guide de l'utilisateur en format PDF.)

Réglage du réseau sans fil

1. **Pair à Pair:** Établit une connexion avec d'autres client(s) sans fil. Ceci ne requiert pas de point d'accès. Veuillez vous assurer que le « Nom de réseau » (SSID ou ESSID) et le canal « Pair à Pair » sont les mêmes pour tous les clients d'un même réseau sans fil. Double clic sur l'icône de l'utilitaire de configuration pour ouvrir l'utilitaire.
 - Cliquez sur la languette « réglage de profil » et « ajouter » pour créer un nouveau profil.
 - Entrez un nom pour le profil et cliquez sur « Suivant ».
 - Choisissez « type de réseau », cliquez sur la flèche déroulante et choisissez « Pair à Pair », puis « Canal Pair à Pair », et servez vous des flèches pour choisir le numéro de canal, puis cliquez « Suivant ».
 - Choisissez le mode d'authentification pour permettre « l'Encryptions » si vous avez des inquiétudes quant à la sécurité. Une fois cette fonction permise, entrez un mot de passe. Cliquez « Suivant ».
 - Pour les réglages IP choisissez « Permettre » ou « Arrêter ». Cliquez « terminé » pour terminer la configuration.



2. **Point d'Accès:** Point de connexion au réseau Ethernet.
 - Cliquez "Liste AP".
 - Choisissez le réseau sans fil à intégrer.
 - Cliquez « Connexion » pour intégrer le réseau.

* Remarque: Vous devrez peut être configurer un profil si le réseau a une protection "WEP KEY".

Erklärung zu den Urheberrechten

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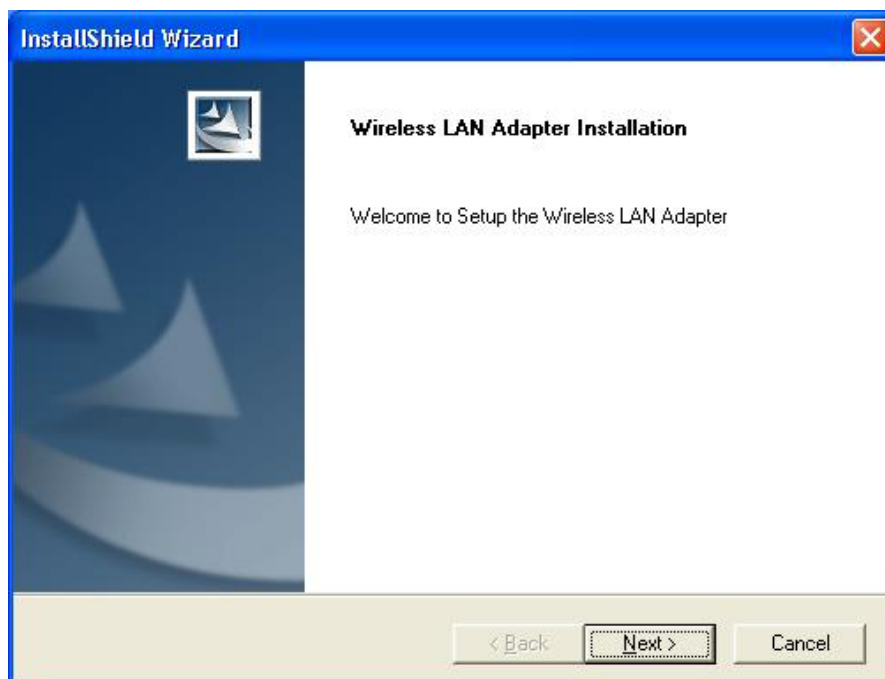
MAI, 2005

WLAN-Adapter-Schnellinstallation

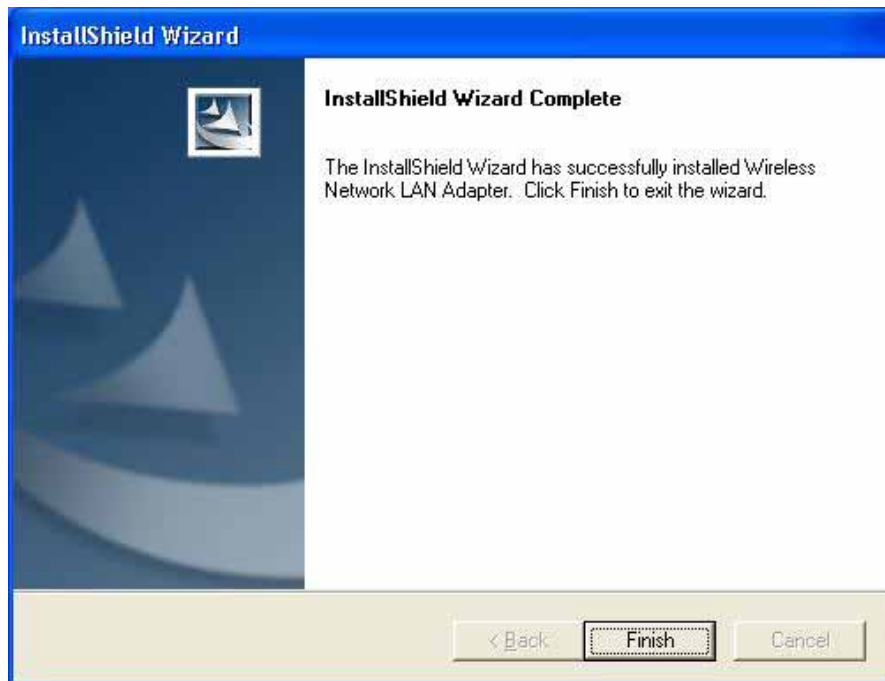
Anmerkung: Nicht den WLAN-Adapter in den Computer stecken, bevor Hilfsprogramm und Treiber nicht installiert sind.

Installation von Hilfsprogramm und Treiber

1. Den Computer auf **“An”** schalten. Die Treiber-CD für den **WLAN Adapter** einlegen.
2. Den CD-Inhalt durchgehen und **“ Setup.exe ”** suchen.
3. Doppelklick auf **“ Setup.exe ”**.
4. **“Next/Weiter”** anklicken und dann den Anweisungen auf dem Bildschirm folgen, um die Installation weiterzuführen.



5. Beim untenstehenden Bild den “Finish/Fertig”-Knopf drücken: sowohl der Treiber wie die Konfiguration des Hilfsprogrammes werden auf Ihrem Computer installiert sein.



Hardware-Installation

Für PCMCIA oder USB-Adapter einfach den Adapter einstecken oder indirekt anschließen, nachdem die Setup-Datei zum Laufen gebracht worden ist.

Für PCI-Karten müssen Sie den Computer herunterfahren, die Karte an einen passenden PCI-Anschluß anschließen und das Betriebssystem neustarten.

Nachdem der Computer gebootet hat, wird er die kabellose Karte entdecken und dann das Assistenzprogramm für „Neue Hardware gefunden“ starten.

Antworten Sie auf die vom Assistenzprogramm angezeigten Anfragen und wählen Sie die Option **“Install the software automatically/Software automatisch installieren” (das wird empfohlen)**. Das Betriebssystem wird den Treiber automatisch finden.

Sie können das Hilfsprogramm zur Konfiguration starten, indem Sie mit dem linken Mausknopf auf das entsprechende Zeichen auf der Bildschirmanzeige drücken und „Advanced Configuration“ (erweiterte Konfiguration) auswählen.

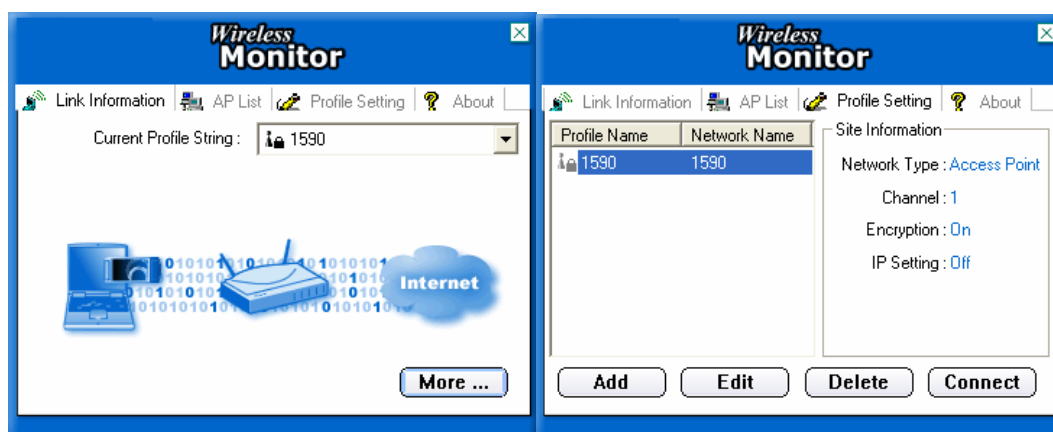


Wenn Zeichen für die Konfiguration mittels Hilfsprogramm in der Anzeigeleiste nicht erscheint, können Sie diese Konfiguration vom Startmenü aus wiederholt zu starten versuchen, indem Sie „Programme“ auswählen und dann „Konfiguration Kabelloses Netzwerk“.

Das Hilfsprogramm zur Konfiguration besteht aus einem Fenster mit vier Abteilungen: Verbindungsinformation, AP-Liste, Profileinstellung und Themenliste. Für Informationen über diese Abteilungen schauen Sie bitte in die Bedienungsanleitung (unter dem CD-Inhalt die im PDF-Format gehaltene Bedienungsanleitung auswählen.)

Setup des kabellosen Netzwerkes

1. **Peer-to-Peer:** Verbindet mit anderen kabellosen Klienten. Dazu ist kein Zugriffspunkt erforderlich. Bitte stellen Sie sicher, daß der "Netzwerkname" (SSID oder ESSID) und der "Peer-to-Peer"-Kanal für alle Klienten im selben Netzwerk derselbe ist. Doppelklick auf das Zeichen für die Konfiguration (mittels Hilfsprogramm), um das Programm zu öffnen.
 - Klick auf die Abteilung "Profileinstellung" und "Hinzufügen", um ein neues Profil zu kreieren.
 - Den Namen, der dem Profil entspricht, eingeben und "Weiter" drücken.
 - Den "Netzwerktypen" auswählen und auf den nach unten (oben) weisenden Pfeil klicken und "Peer-to-Peer" auswählen, dann beim "Peer-to-Peer"-Kanal den besagten Pfeil nutzen, um die Kanalnummer auszuwählen und dann „Weiter“ drücken.
 - Den Authentifizierungsmodus auswählen, um die "Verschlüsselung" auszuwählen, falls Sie irgendwelche Sicherheitsbedenken hegen. Wenn Sie die Verschlüsselungsfunktion einmal aktiviert haben, sollten Sie den entsprechenden Schlüssel eingeben. Klicken Sie auf „Weiter“.
 - Beim IP-Einstellen wählen Sie "Enable" (eingeschaltet) oder "Disable" (ausgeschaltet), um Gebrauch davon zu machen. Klicken Sie auf "Complete" (Fertigstellen), um die Konfiguration abzuschließen.



2. **Access Point (Zugriffspunkt):** Stellt eine Verbindung zum verkabelten Ethernet-Netzwerk via Access Point her.
 - Klicken Sie die Abteilung "AP-Liste" an.

- Wählen Sie aus der Liste das Netzwerk, das Sie benutzen wollen.
- Drücken Sie "Verbinden" , um die Verbindung mit dem Netzwerk herzustellen.

* Anmerkung: Möglicherweise müssen Sie zuvor ein Profil einstellen, wenn das Zielnetzwerk als Schutz einen "WEP KEY" genutzt hat.

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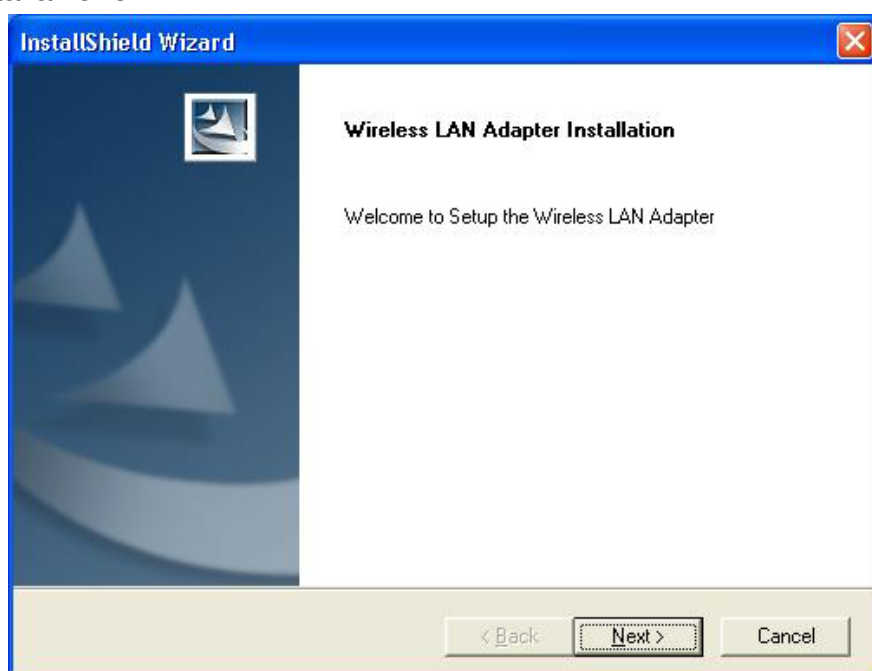
MAGGIO 2005

Guida Veloce all'Installazione dell'Adattatore WLAN

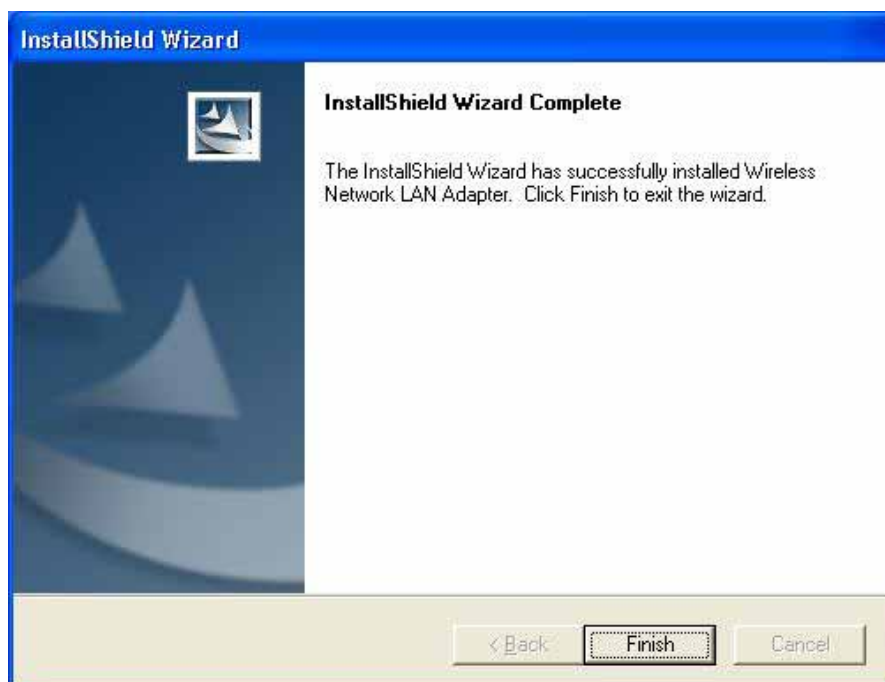
Nota: Non inserire l'adattatore WLAN nel computer fino a che non si è finito d'installare l'utility e il Driver.

Installazione dell'Utility e del Driver

1. Accendere ("On") il computer. Inserire il CD del driver per l'Adattatore WLAN.
2. Sfogliare il contenuto del CD e trovare " **Setup.exe** ".
3. Cliccare due volte " **Setup.exe** ".
4. Cliccare "Avanti" e poi seguire le istruzioni sullo schermo per continuare l'installazione.



5. Cliccare il pulsante Finisci in questo schermo; sia il driver che l'Utility della configurazione sono installati nel vostro computer.



Installazione dell'Hardware

Per gli adattatori PCMCIA o USB, basta inserire o collegare l'adattatore dopo avere eseguito il file d'installazione.

Per le schede PCI, dovete spegnere il computer, installare la scheda in uno slot PCI disponibile, e poi riavviare il sistema operativo.

Dopo che il computer si è avviato, riscontra la scheda wireless e poi avvia il mago di Trovato Nuovo Hardware. Rispondere alle domande mostrate dal mago e selezionare l'opzione, **“Installa automaticamente il software (Consigliato)”**; il sistema operativo troverà automaticamente il driver.

Potete lanciare l'Utility della Configurazione cliccando il pulsante sinistro del mouse sull'icona Utility di Configurazione e selezionando Configurazione Avanzata.

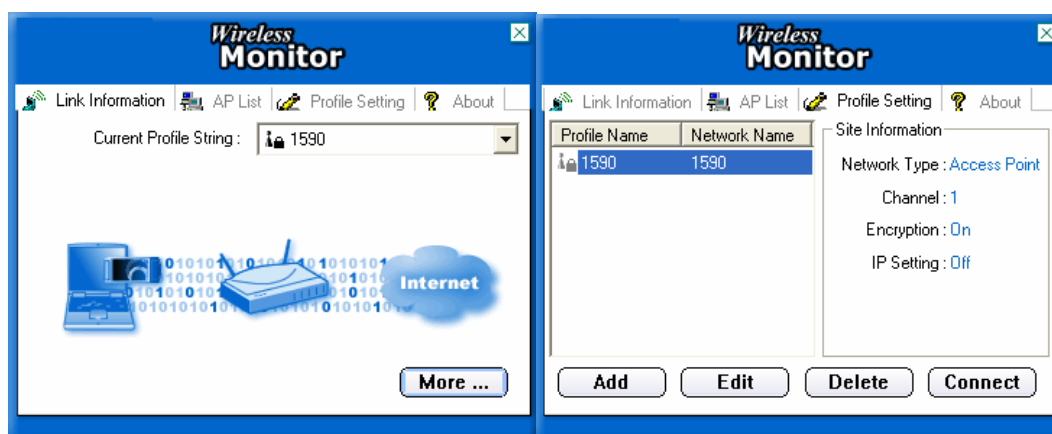


Se l'icona Utility di Configurazione non viene mostrata nel Piatto del Sistema, potete riavviare l'Utility di Configurazione da Menu di Avvia selezionando Programmi e Utility di Configurazione Rete Wireless.

L'Utility di Configurazione consiste in una finestra con quattro tabule: Informazioni di Link, Elenco AP, Impostazione Profilo, e Informazioni. Trovare le informazioni riguardanti queste tabule nella Guida per l'Uso (dal contenuto del CD, selezionare Guida per l'Uso mostrata nel formato PDF.)

Installazione Rete Wireless

- 1. Peer-to-Peer:** Collega con altri clienti wireless. Questo non richiede il Punto di Accesso. Assicurarsi che il "Nome della Rete" (SSID o ESSID) e il canale "Peer-to-Peer" siano gli stessi per tutti i clienti della stessa rete wireless. Cliccare due volte sull'icona Utility di Configurazione per aprire l'utility.
 - Cliccare sulla tabula "Impostazione Profilo" e "Aggiungi" per creare un nuovo profilo.
 - Scrivere un nome a cui corrisponde il profilo, cliccare "Avanti".
 - Selezionare il "Tipo di Rete", cliccare sulla freccia drop-down e selezionare "Peer-to-Peer", e poi in "Canale Peer-to-Peer", usare le frecce su e giù per selezionare il numero del canale, e poi cliccare "Avanti".
 - Selezionare la Modalità Autenticazione per attivare la "Encryption" se avete qualche preoccupazione per la sicurezza. Quando avete attivato la funzione di encryption, dovete input la chiave corrispondente. Cliccate "Avanti".
 - Nell'Impostazione IP selezionare "Attiva" o "Disattiva" per usarla. Cliccare "Completa" per finire la configurazione.



- 2. Punto di Accesso:** Collega alla rete Ethernet a filo attraverso il Punto di Accesso.
 - Cliccare la tabula "Elenco AP".
 - Selezionare la Rete Wireless elencata per unirsi (Join).
 - Cliccare "Collega" per unirsi alla rete.
- * Nota: Potreste avere bisogno di configurare prima un Profilo se la rete di destinazione aveva una "WEP KEY" protetta.

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MAYO DE 2005

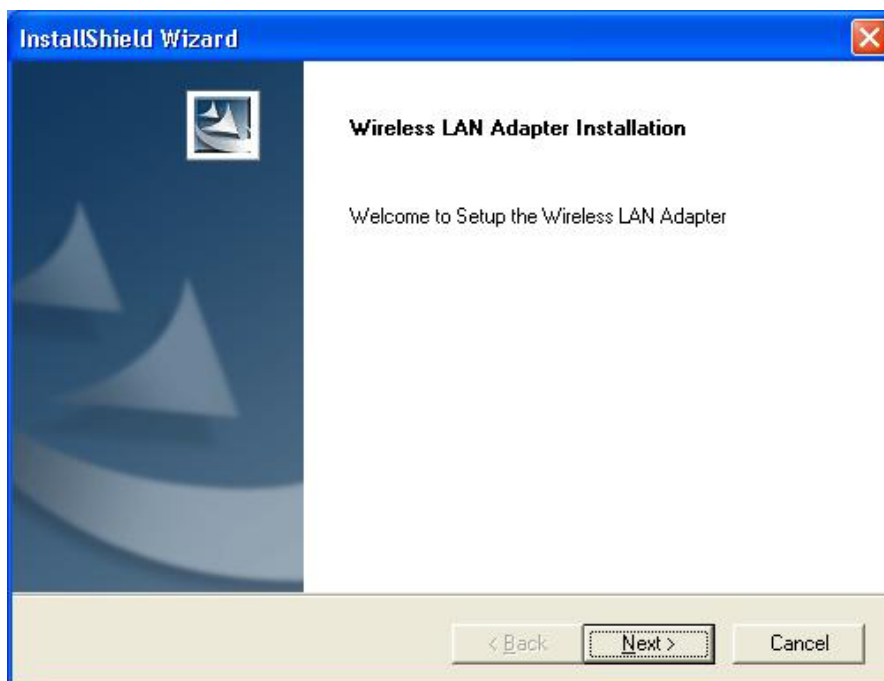
Guía de instalación rápida del adaptador

WLAN

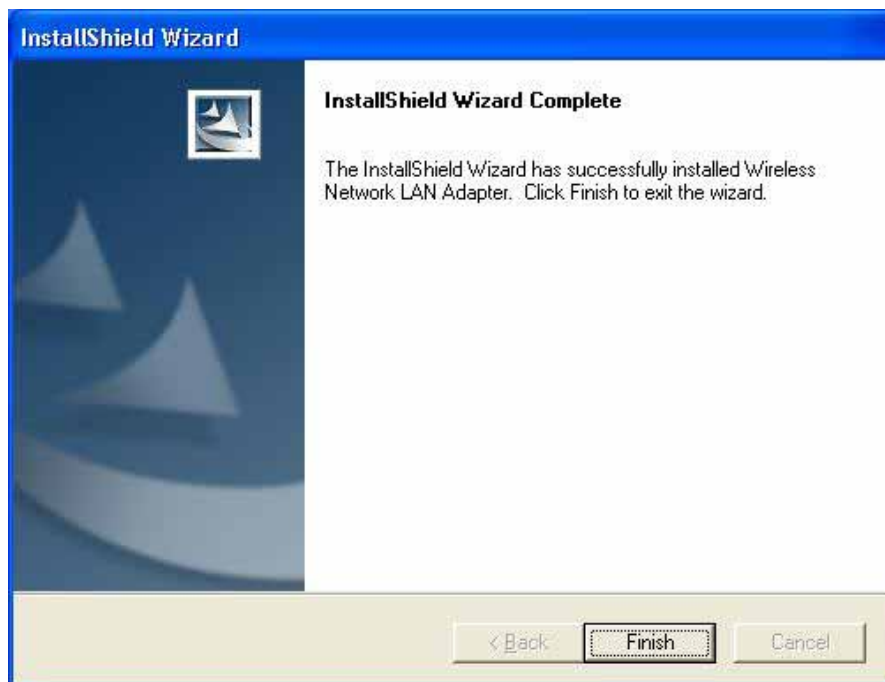
Nota: no inserte el adaptador WLAN en su ordenador hasta que haya finalizado la instalación del utilitario y el controlador.

Instalación del programa utilitario y el controlador

1. Encienda el ordenador. Inserte CD de controlador del **Adaptador WLAN**.
2. Explore el contenido del CD y encuentre el archivo “ **Setup.exe** ”.
3. Haga doble clic en “ **Setup.exe** ”.
4. Haga clic en “Siguiente” . Siga las instrucciones en pantalla para instalar.



5. Haga clic en botón Finalizar en esta pantalla; el controlador y el Utilitario de Configuración están ya instalados en su computadora.



Instalación del hardware

Para los adaptadores PCMCIA o USB, simplemente inserte o conecte el adaptador después de ejecutar el archivo de instalación (setup.exe). Para las tarjetas PCI, debe apagar la computadora, instalar la tarjeta en una ranura PCI disponible y luego reiniciar el sistema.

Después que el ordenador arranque, detectará la tarjeta inalámbrica y luego lanzará el Asistente para nuevo hardware encontrado. Responda a las preguntas del asistente, y seleccione la opción, **“Instalar el software automáticamente (Recomendado)”**; el sistema operativo encontrará el controlador automáticamente.

Usted puede lanzar el Utilitario de Configuración haciendo clic con el botón izquierdo del ratón en el icono Utilitario de Configuración y seleccionando Configuración Avanzada.

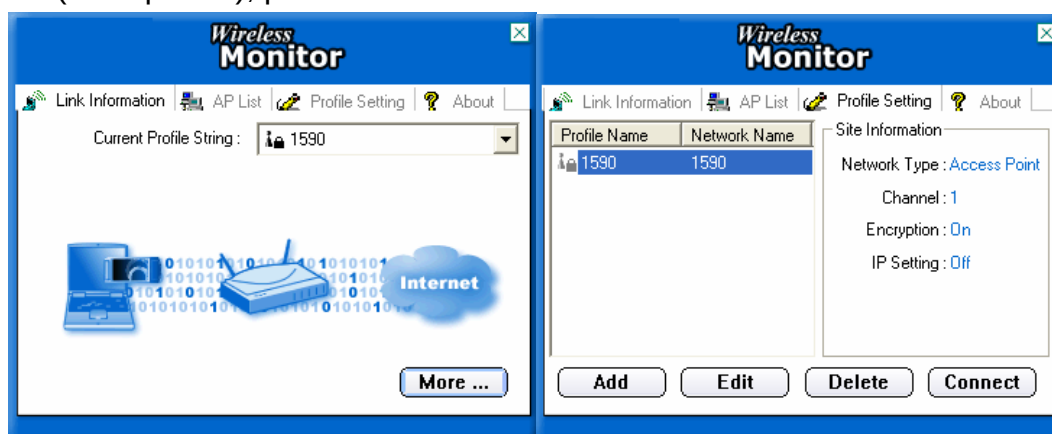


Si el icono del Utilitario de Configuración no se ve en la Bandeja del Sistema, usted puede reiniciar el Utilitario de Configuración a partir del Menú de Inicio, seleccionando Programas y Utilitario de Configuración de Redes Inalámbricas.

El Utilitario de Configuración consiste de una ventana con cuatro viñetas: Link Information (Información del vínculo), AP List (Lista de puntos de acceso), Profile Setting (Configuración de perfiles), y About (Acerca de). Puede encontrar más información acerca de estas viñetas en la Guía del Usuario (de los contenidos del CD, seleccione la Guía del Usuario que se muestra en formato PDF).

Configuración de la red inalámbrica

- 1. Punto a Punto (Peer-to-Peer):** Conecta con otros clientes inalámbricos. Esta no requiere un Punto de acceso. Asegúrese que el "Nombre de la red" (SSID o ESSID) y el canal "Peer-to-Peer" (Punto a Punto) son iguales para todos los clientes en la misma red inalámbrica. Haga doble clic en el icono del Utilitario de Configuración para abrir el utilitario.
 - Clic en la viñeta "Profile Setting" y en "Add" para crear nuevo perfil.
 - Ingrese un nombre que corresponda con el perfil. Clic en "Next".
 - Seleccione el "Tipo de red" ("Network Type"). Clic en la flecha del menú desplegable. Seleccione "Peer-to-Peer" (Punto a Punto), y luego en el "Peer-to-Peer Channel" (Canal de Punto a Punto), use las flechas arriba/abajo para seleccionar el número del canal, y luego haga clic en "Siguiente".
 - Seleccione un Modo de Autenticación (Authentication Mode) para activar la Encriptación ("Encryption"), si tiene inquietudes acerca de la seguridad. Una vez activa la función de encriptación, ingrese la clave correspondiente. Haga clic en "Next".
 - En la Configuración IP (IP Setting), seleccione "Enable" ("Activar") o "Disable" (Desactivar) para usar la IP. Haga clic en "Complete" ("Completar"), para finalizar.



- 2. Punto de acceso** Conecta a la red Ethernet alámbrica vía el Punto de acceso.
 - Haga clic en la viñeta "AP List". Seleccione la lista de redes inalámbricas a las que se puede conectar.
 - Haga clic en "Connect" para conectarse a la red.
- * Nota: Tal vez tenga que configurar un perfil (Profile) antes, si la red de destino tienen una clave WEP ("WEP KEY") protegida.

The equipment has been tested and found to comply with FCC and CE Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received including interference that may cause undesired operation.



This device has been designed to operate with the antennas listed below, and having a maximum gain of [x] dB. Antennas not included in this list or having a gain greater than [x] dB are strictly prohibited for use with this device. The required antenna impedance is [y] ohms.

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

IMPORTANT NOTE:

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The WL-611GS/WL-660GS (FCC ID: MXF-C940720G/MXF-C940531G) is limited in CH1~CH11 for 2.4 GHz by specified firmware controlled in U.S.A.



MAX LIGHT
MEASUREMENT REPORT

EXHIBIT D

Circuit Diagram

WPIA_116G
802.11G PCI adapter
Gemtek Technology Co.,
Ltd.
Confidential

Title			WPIA-116G V01	
Size	Number		Revision	
B				
Date:	27-May-2005		Sheet	of
File:	E:\Project\WPIA-116G_V01_Sch.dwg		Drawn By:	



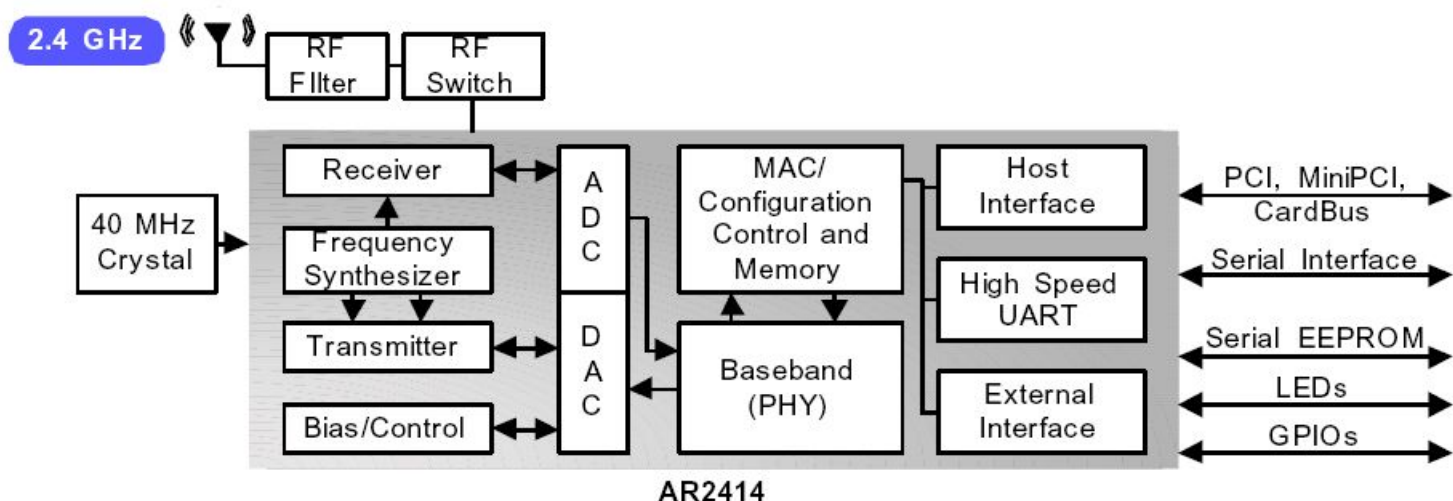
MAX LIGHT
MEASUREMENT REPORT

EXHIBIT E

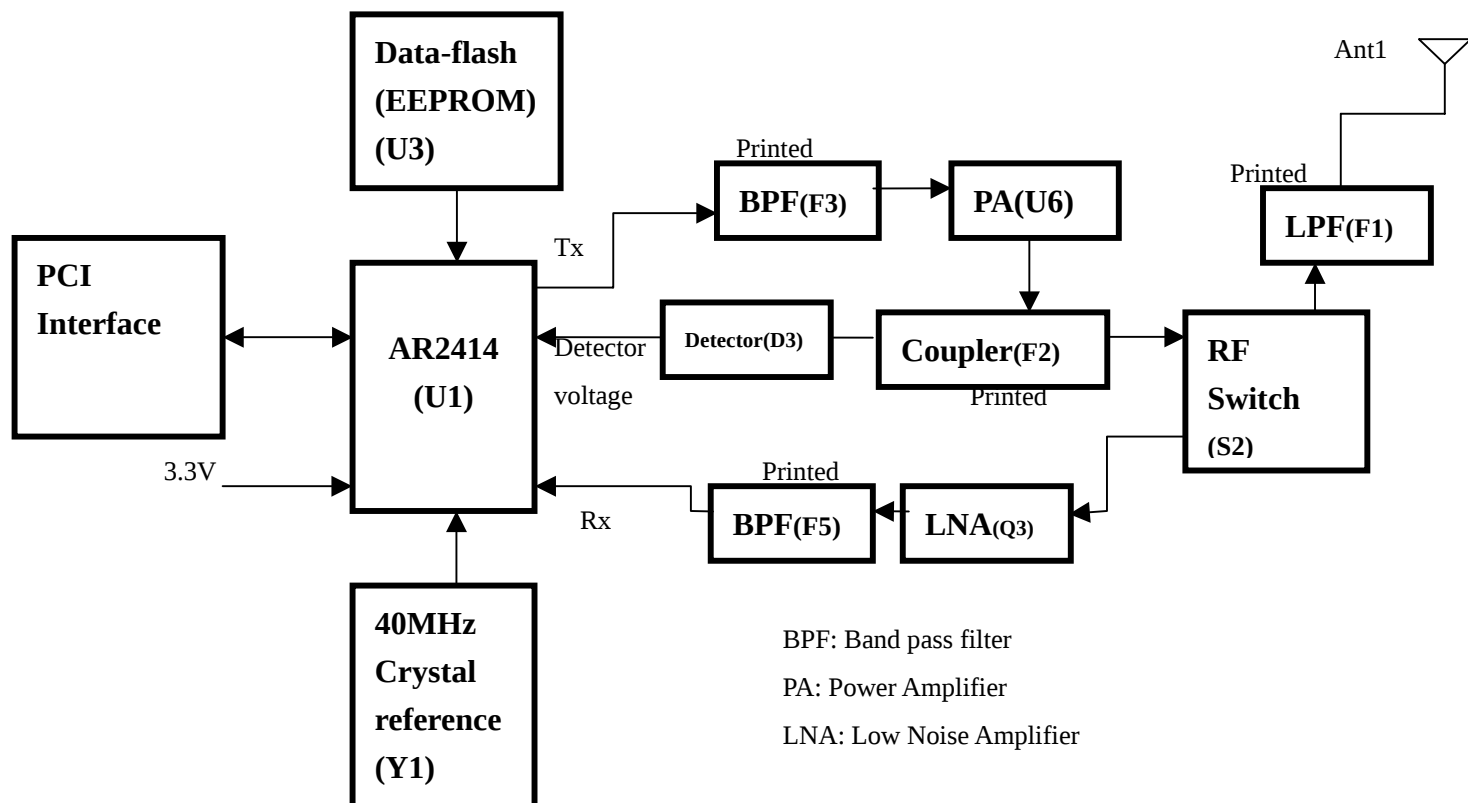
Block Diagram

Block Diagram for WPIA-116G:

System Block diagram:



Circuitry Block diagram:

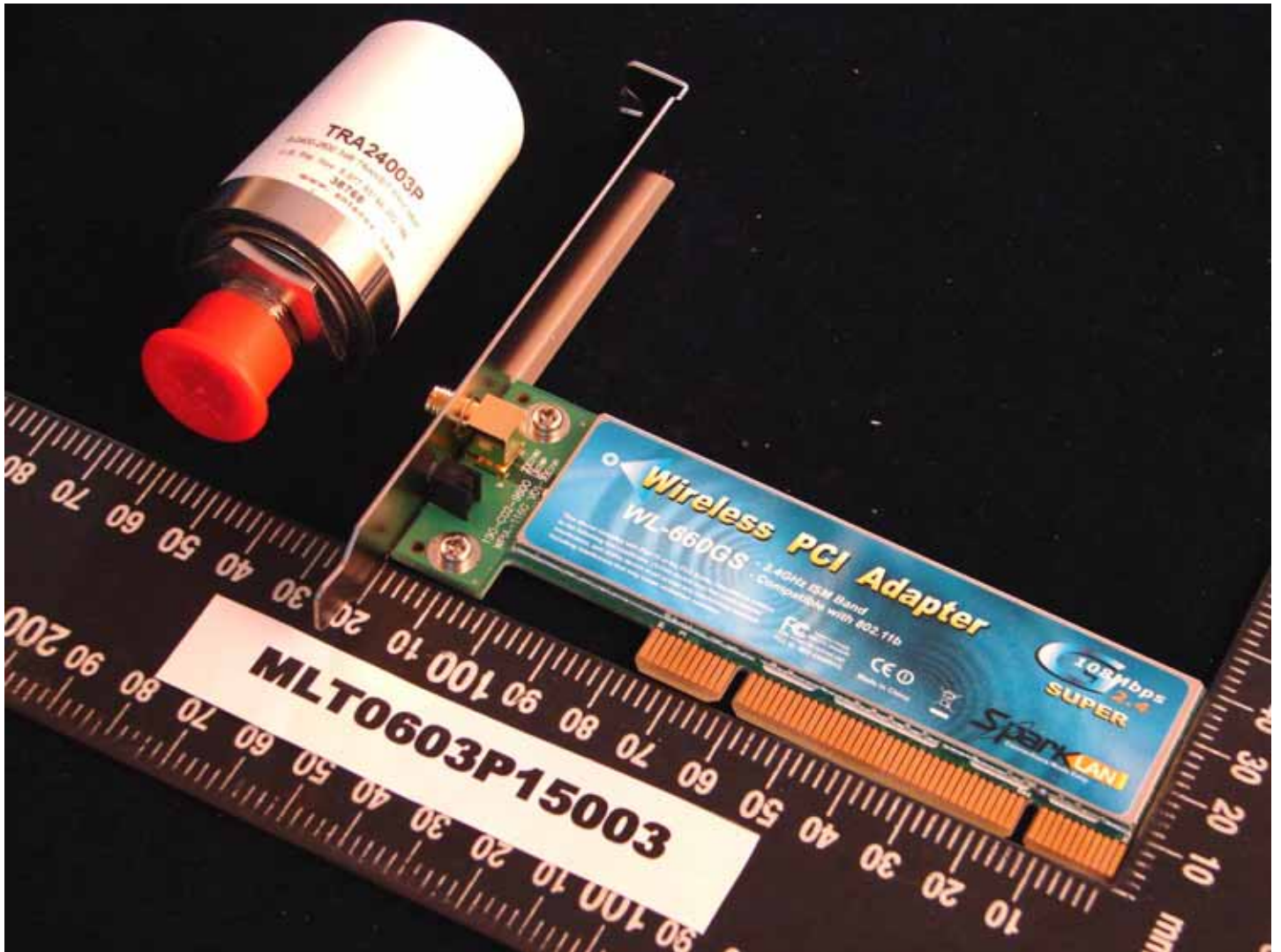


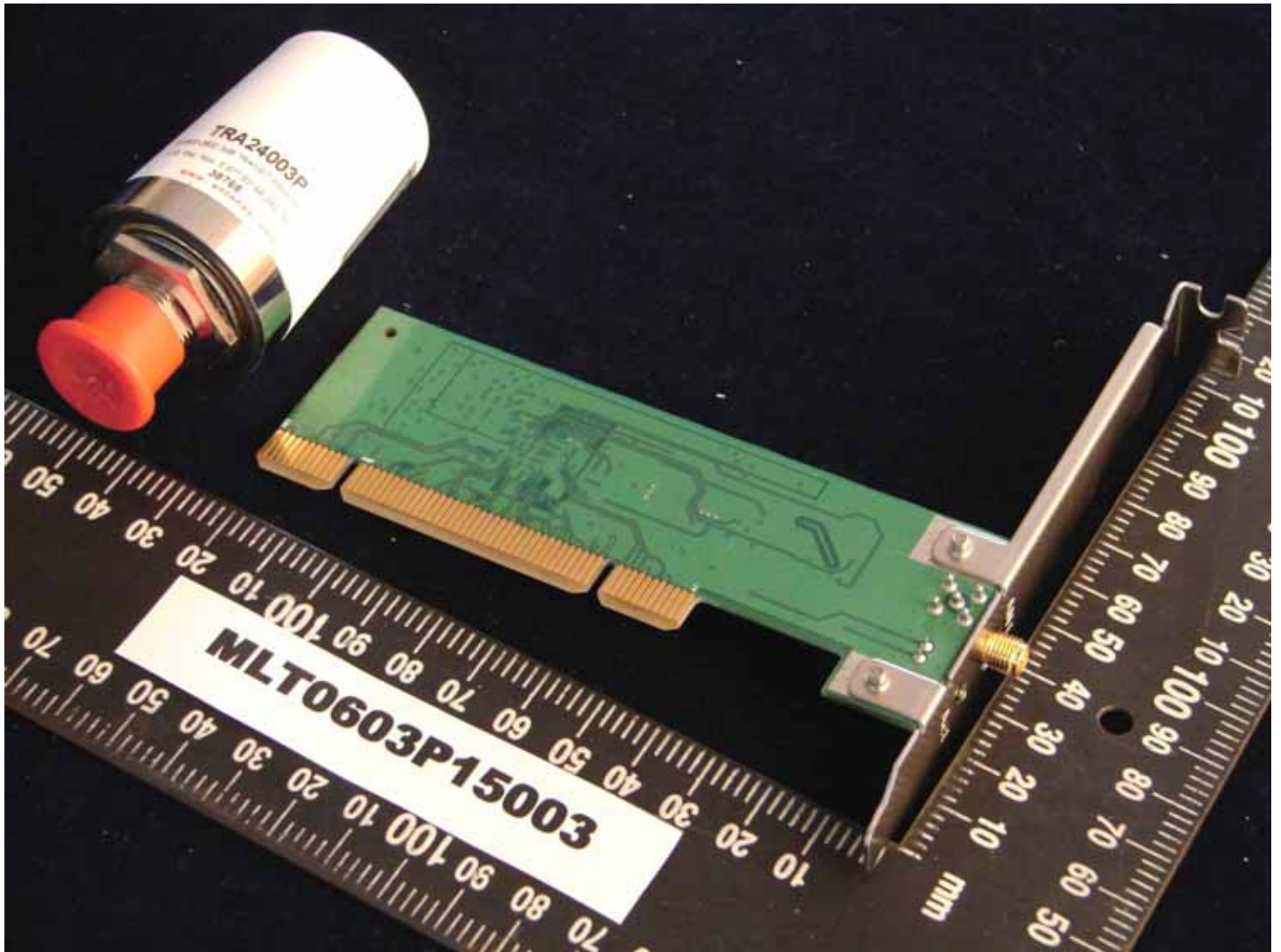


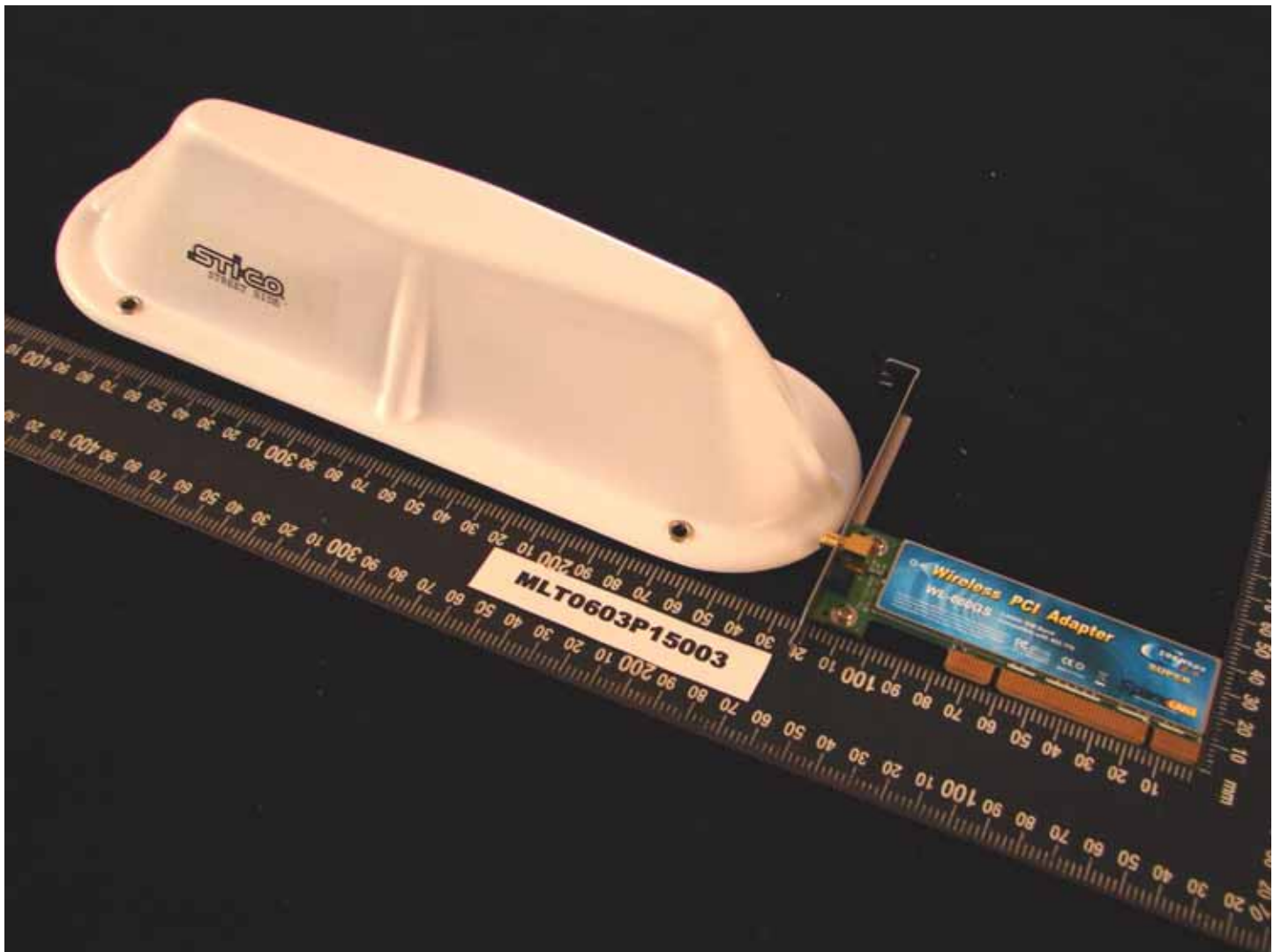
MAX LIGHT
MEASUREMENT REPORT

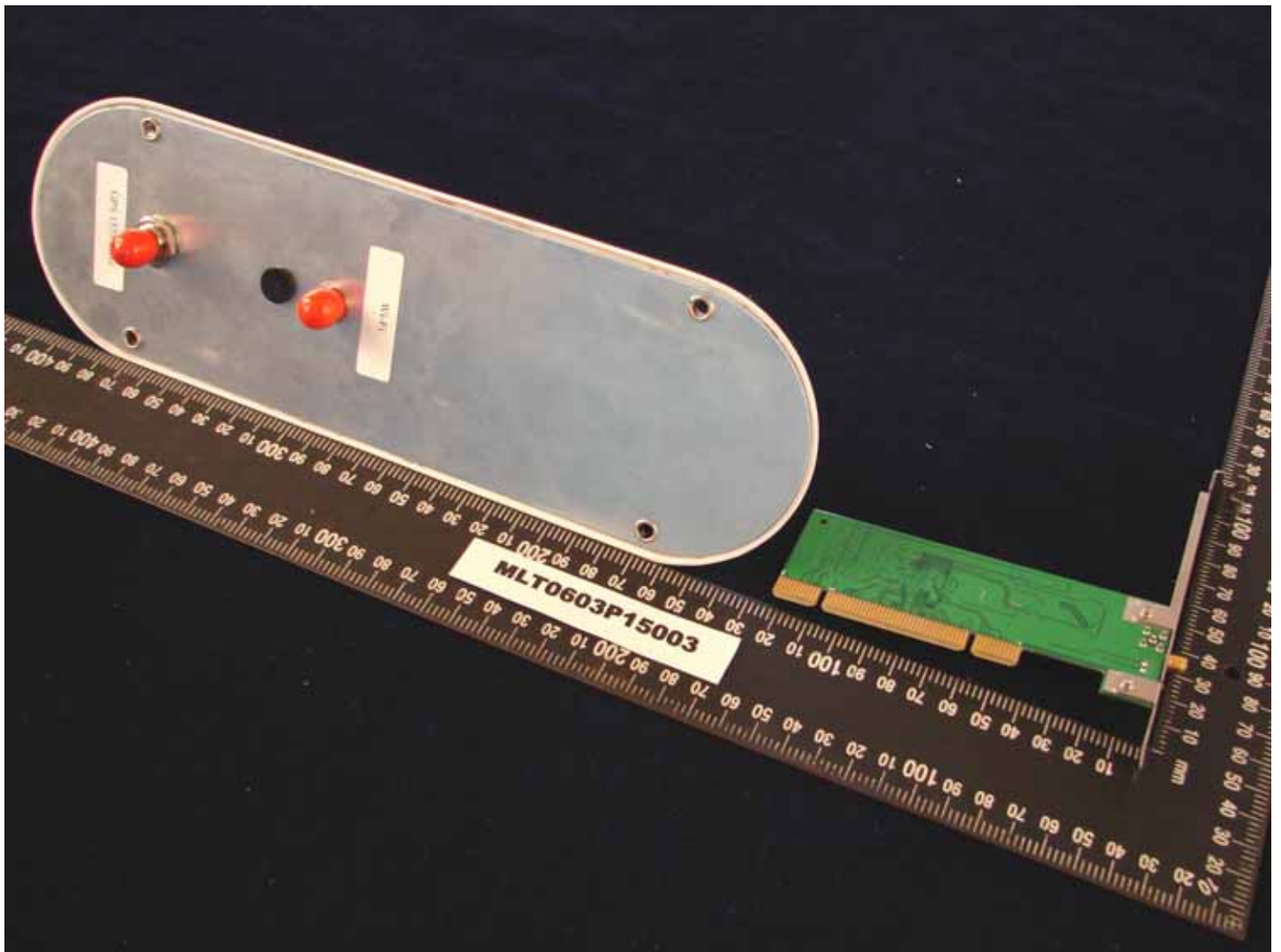
EXHIBIT F

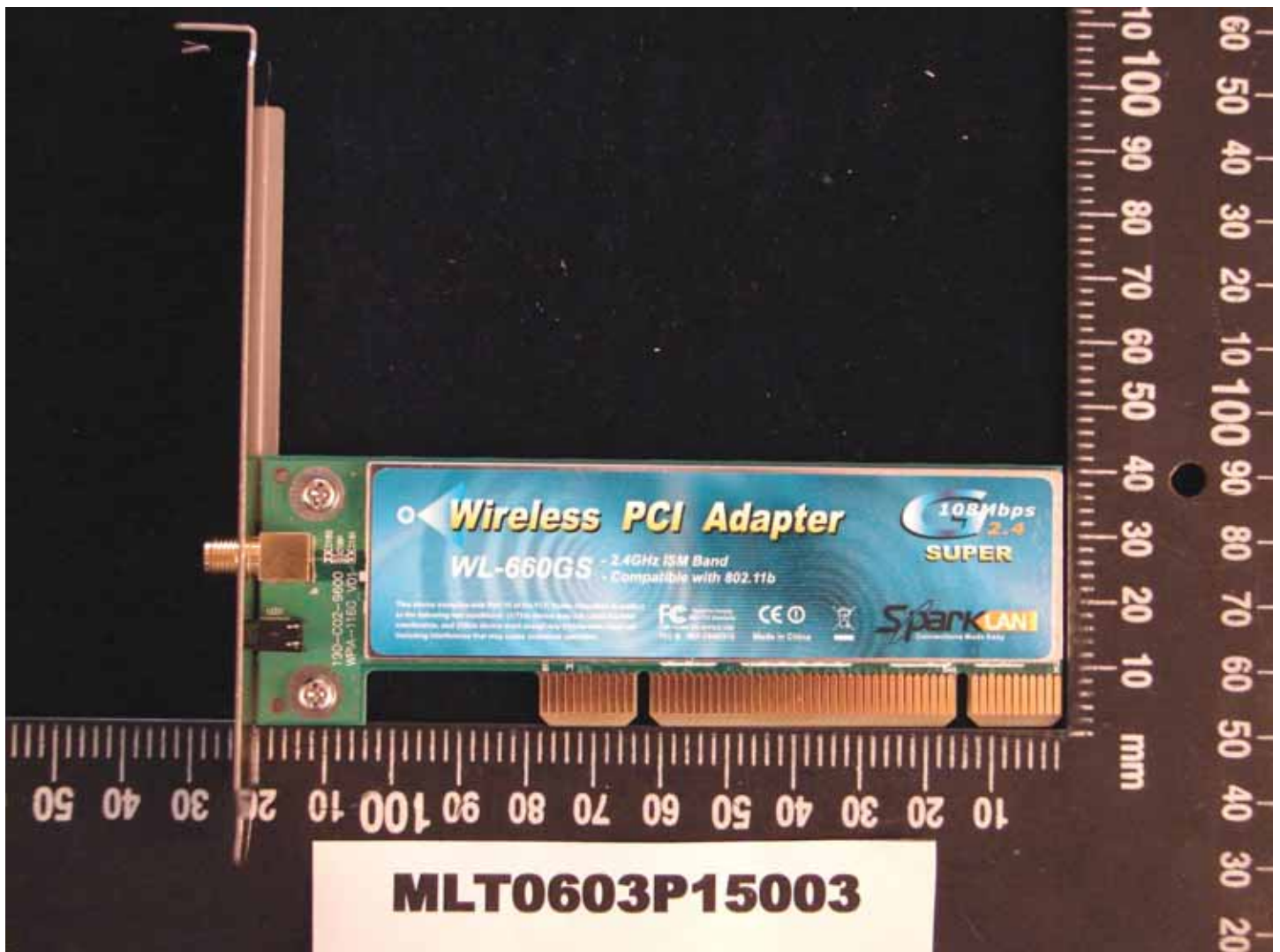
Photographs of EUT

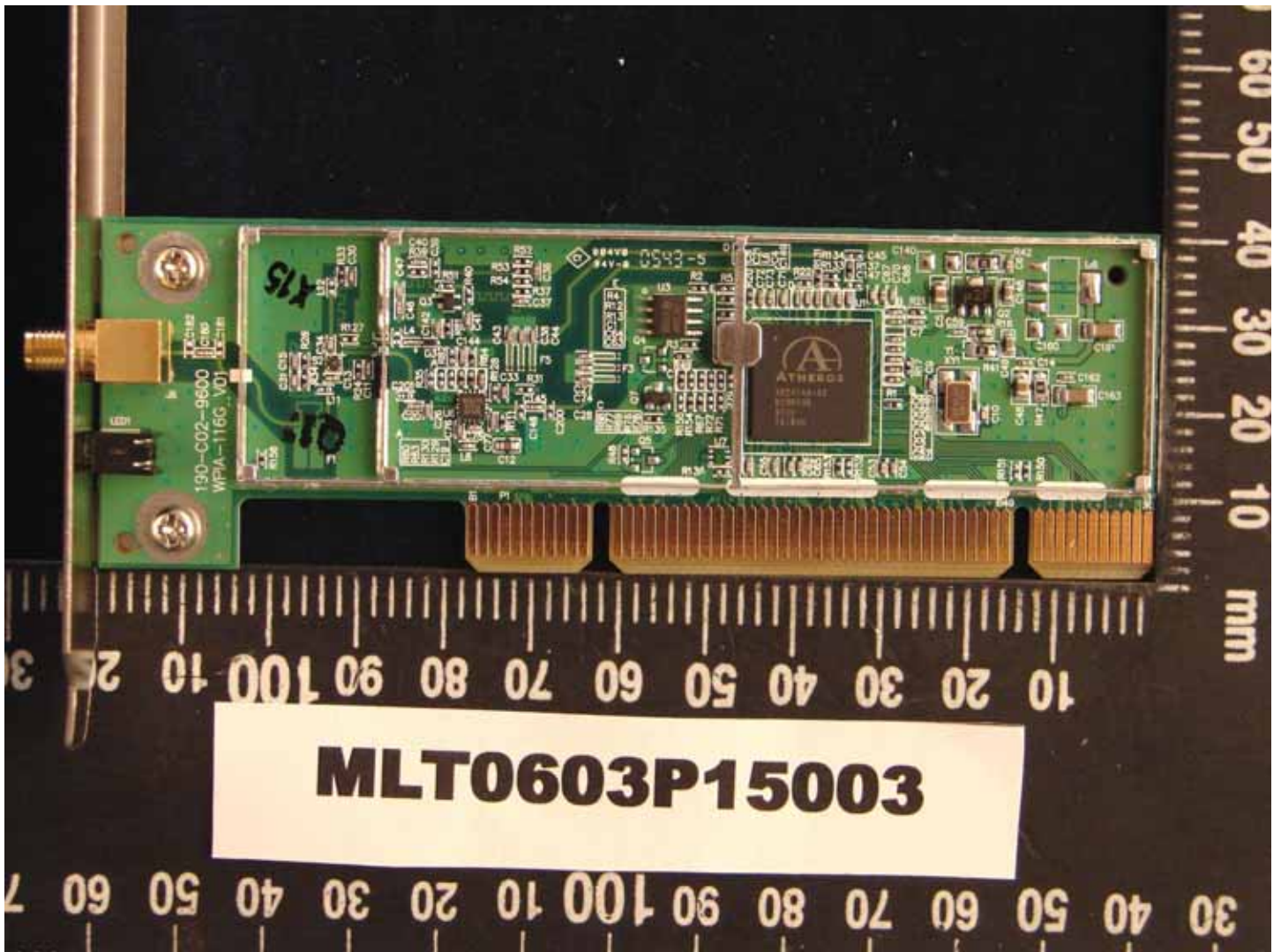


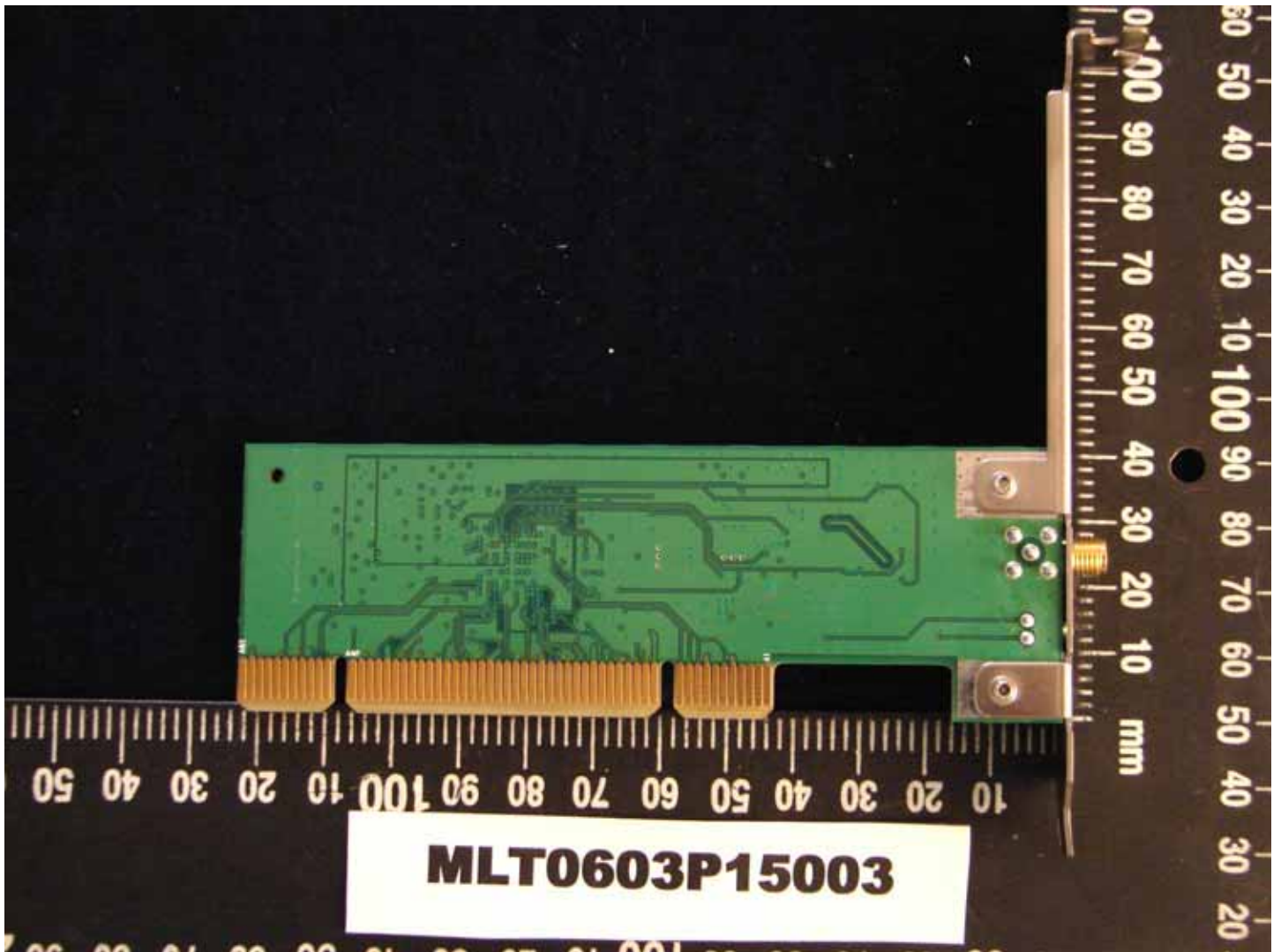
















MAX LIGHT
MEASUREMENT REPORT

EXHIBIT G

MPE



Maximum Permissible Exposure

1. Introduction

In this document, we try to prove the safety of radiation harmfulness to the human body for our product. The limit for Maximum Permissible Exposure (MPE) specified in FCC 1.1310 is followed. The Gain of the antenna used in this product is measured in a Fully Anechoic Chamber (FAC) calibrated for antenna measurement in MLT, and also the maximum total power input to the antenna is measured. Through the Friis transmission formula and the maximum gain of the antenna, we can calculate the distance, away from the product, where the limit of MPE is reached.

Although the Friis transmission formula is a far field assumption, the calculated result of that is an over-prediction for near field power density. We will take that as the worst case to specify the safety range.

2. Description of EUT

EUT	: MODULE 802.11g Wireless Ethernet PCI card
Applicant	: March Networks Corporation Suite 530, Tower B 555 Legget Drive Kanata, ON K2K 2X3 CANADA
Manufacturer	: Gemtek Technology Co., Ltd. No.1 Jen-Ai Road, HsinChu Industrial Park, HuKou Hsiang, HsinChu Hsien,Taiwan, R.O.C.
Model No	: 17037
FCC ID	: T5L17037

3. Classification

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. Warning statement to the user for keeping at least 20cm or more separation distance with the antenna should be included in users manual. So, this device is classified as Mobile Device.

4. Friis Formula

Friis transmission formula : $P_d = (P_{out} * G) / (4 * \pi * r^2)$

Where

P_d = power density in mW/cm^2

P_{out} = output power to antenna in Mw

G = gain of antenna in linear scale

π = 3.1416

R = distance between observation point and center of the radiator in cm

5. Test Result:

802.11b

Max RF Power (dBm)	TX Antenna Gain (dBi)	Testing Result (mW/cm ²)	MPE Limit (mW/cm ²)
17.11	3.0	0.0068	1

802.11g

Max RF Power (dBm)	TX Antenna Gain (dBi)	Testing Result (mW/cm ²)	MPE Limit (mW/cm ²)
13.46	3.0	0.0053	1

802.11 Super g

Max RF Power (dBm)	TX Antenna Gain (dBi)	Testing Result (mW/cm ²)	MPE Limit (mW/cm ²)
12.93	3.0	0.0051	1