FCC 47 CFR PART 15 SUBPART C

TEST REPORT

For

Notebook built-in (Intel 802.11b/g)

Trade Name: Averatec

Model Number: 1000

Issued to

Averatec Inc. 80 Icon, Foothhill Ranch, CA92610

Issued by

Compliance Certification Services Inc. No. 81-1, Lane 210, Bade Rd. 2, Luchu Hsiang, Taoyuan Hsien, (338) Taiwan, R.O.C. TEL: 886-3-324-0332

FAX: 886-3-324-0332



Date of Issue: April 11, 2005

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1. TEST RESULT CERTIFICATION

Applicant:

Averatec Inc.

80 Icon, Foothhill Ranch, CA92610

Equipment Under Test:

Notebook built-in (Intel 802.11b/g)

Trade Name:

Averatec

Model Number:

1000

Date of Test:

March 30 ~ April 6, 2005

APPLICABLE S'	TANDARDS
STANDARD	TEST RESULT
FCC Part 15 Subpart C	No non-compliance noted

We hereby certify that:

The above equipment was tested by Compliance Certification Services Inc. 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 and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules Part 15.207, 15.209, 15.247.

The test results of this report relate only to the tested sample EUT identified in this report.

Approved by:

Reviewed by:

Harris W. Lai

Executive Vice President

Compliance Certification Services Inc.

Gavin Lim

Section Manager

Compliance Certification Services Inc.

2. EUT DESCRIPTION

Product	Notebook built-in (Intel 802.11b/g)
Trade Name	Averatec
Model Number	1000
Model Discrepancy	N/A
Power Supply	LITEON / PA-1650-01 I/P: AC 100-240V, 1.6A, 50-60Hz O/P: DC 19V, 3.42A, 65W
Frequency Range	2412 ~ 2462 MHz
Transmit Power	IEEE802.11b mode: 17.18 dBm IEEE802.11g mode: 17.57 dBm
Modulation Technique	IEEE 802.11b: DSSS (CCK; DQPSK; DBPSK) IEEE 802.11g: OFDM (QPSK, BPSK, 16-QAM, 64-QAM)
Transmit Data Rate	IEEE802.11b: 11, 5.5, 2, 1Mbps IEEE802.11g: 54, 48, 36, 24, 18, 12, 9, 6, 5.5, 2, 1 Mbps
Number of Channels	11 Channels
Antenna Specification	Antenna 1 Type PIFA, model F10D-L, part no TWF10WIPI01A, gain 0.06dBi Antenna 2 Type PIFA, model F10D-R, part no TWF10WIPI02A, gain 0.05dBi

Remark: The sample selected for test was prototype that approximated to production product and was provided by manufacturer. This submittal(s) (test report) is intended for FCC ID: <u>Q3ZF10DA</u> filing to comply with Section 15.207, 15.209 and 15.247 of the FCC Part 15, Subpart C Rules.

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3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4 and FCC CFR 47 2.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055, 2.1057, 15.207, 15.209 and 15.247.

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3.1 EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

3.2 EUT EXERCISE

The EUT was operated in the engineering mode to fix the TX frequency that was for the purpose of the measurements.

According to its specifications, the EUT must comply with the requirements of the Section 15.207, 15.209 and 15.247 under the FCC Rules Part 15 Subpart C.

3.3 GENERAL TEST PROCEDURES

Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.4 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-peak and average detector modes.

Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 13.1.4.1 of ANSI C63.4.

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3.4 FCC PART 15.205 RESTRICTED BANDS OF OPERATIONS

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

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MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 -	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.52525	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	156.7 - 156.9	3260 - 3267	23.6 - 24.0
12.29 - 12.293	162.0125 - 167.17	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	167.72 - 173.2	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	240 - 285	3600 - 4400	$\binom{2}{2}$
13.36 - 13.41	322 - 335.4		

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

(b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

3.5 DESCRIPTION OF TEST MODES

The EUT (model: 1000) have been tested under operating condition.

Software used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

After verification, all tests carried out are with the worst-case test modes as shown below except radiated spurious emission below 1GHz's worst case is in normal link mode.

IEEE802.11b: Channel 1(2412MHz), Channel 6(2437MHz) and Channel 11(2462MHz) with 1Mbps data rate were chosen for the final testing.

IEEE802.11g: Channel 1(2412MHz), Channel 6(2437MHz) and Channel 11(2462MHz) with 6Mbps data rate were chosen for the final testing.

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² Above 38.6

4. INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

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5. FACILITIES AND ACCREDITATIONS

5.1 FACILITIES

All measurement facilities used to collect the measurement data are located at	
No. 81-1, Lane 210, Bade Rd. 2, Luchu Hsiang, Taoyuan Hsien, Taiwan, R.O.C.	
No. 199, Chunghsen Road, Hsintien City, Taipei Hsien, Taiwan, R.O.C.	
The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 at CISPR Publication 22	nc

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5.2 EQUIPMENT

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, biconical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

5.3 LABORATORY ACCREDITATIONS AND LISTING

The test facilities used to perform radiated and conducted emissions tests are accredited by National Voluntary Laboratory Accreditation Program for the specific scope of accreditation under Lab Code: 200600-0 to perform Electromagnetic Interference tests according to FCC PART 15 AND CISPR 22 requirements. No part of this report may be used to claim or imply product endorsement by NVLAP or any agency of the US Government. In addition, the test facilities are listed with Federal Communications Commission (Registration no: 93105 and 90471).

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5.4 TABLE OF ACCREDITATIONS AND LISTINGS

Country	Agency	Scope of Accreditation	Logo
USA	NVLAP*	EN 55011, EN 55014-1, AS/NZS 1044, CNS 13783-1, EN 55022, CNS 13438, EN 61000-3-2, EN 61000-3-3, ANSI C63.4, FCC OST/MP-5, AS/NZS CISPR 22, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11	200600-0
USA	FCC	3/10 meter Open Area Test Sites to perform FCC Part 15/18 measurements	FC 93105, 90471
Japan	VCCI	4 3/10 meter Open Area Test Sites to perform conducted/radiated measurements	VCCI R-393/1066/725/879 C-402/747/912
Norway	NEMKO	EN 50081-1/2, EN 50082-1/2, IEC 61000-6-1/2, EN 50091-2, EN 50130-4, EN 55011, EN 55013, EN 55014-1/2, EN 55015, EN 55022, EN 55024, EN 61000-3-2/3, EN 61326-1, IEC 61000-4-2/3/4/5/6/8/11, EN 60601-1-2, EN 300 328-2, EN 300 422-2, EN 301 419-1, EN 301 489-01/03/07/08/09/17, EN 301 419-2/3, EN 300 454-2, EN 301 357-2	ELA 124a ELA 124b ELA 124c
Taiwan	CNLA	EN 300 328-1/2, EN 300 220-1/2/3, EN 300 440-1/2, EN 61000-3-2, EN 61000-3-3, 47 CFR FCC Part 15 Subpart C/D/E, EN 55013, CNS 13439, EN 55014-1, CNS 13783-1, EN 55022, CNS 13438, CISPR 22, AS/NZS 3548, EN 61000-4-2/3/4/5/6/8/11, ENV 50204, IEEE Std 1528, FCC OET Bulletin, 65+Supplement C, EN50360, EN50361, EN50371, RSS102	O 3 6 3 ILAC MRA
Taiwan	BSMI	CNS 13438, CNS 13783-1, CNS 13439, CNS 14115	SL2-IS-E-0014 SL2-IN-E-0014 SL2-A1-E-0014 SL2-R1-E-0014 SL2-R2-E-0014 SL2-L1-E-0014
Canada	Industry Canada	RSS212, Issue 1	Canada IC 3991-3 IC 3991-4

^{*} No part of this report may be used to claim or imply product endorsement by NVLAP or any agency of the US Government.

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6. SETUP OF EQUIPMENT UNDER TEST

6.1 SETUP CONFIGURATION OF EUT

See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

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6.2 SUPPORT EQUIPMENT

No.	Device Type	Brand	Model	Series No.	FCC ID	Data Cable	Power Cord
	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Remark:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

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7. FCC PART 15.247 REQUIREMENTS

7.1 6dB BANDWIDTH

LIMIT

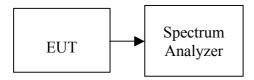
For the direct sequence systems, the minimum 6dB bandwidth shall be at least 500kHz.

MEASUREMENT EQUIPMENT USED

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	E4446A	MY43360131	01/10/2006

Remark: Each piece of equipment is scheduled for calibration once a year.

Test Configuration



TEST PROCEDURE

- 1. Place the EUT on the table and set it in the transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 3. Set the spectrum analyzer as RBW = 100kHz, VBW = RBW, Span = 50MHz, Sweep = auto.
- 4. Mark the peak frequency and –6dB (upper and lower) frequency.
- 5. Repeat until all the rest channels are investigated.

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TEST RESULTS

No non-compliance noted

Test Data

Test mode: IEEE 802.11b

Channel	Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Margin (kHz)
Low	2412	8580		PASS
Mid	2437	9000	>500	PASS
High	2462	8670		PASS

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Test mode: IEEE 802.11g

Channel	Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Margin (kHz)
Low	2412	16500		PASS
Mid	2437	16420	>500	PASS
High	2462	16420		PASS

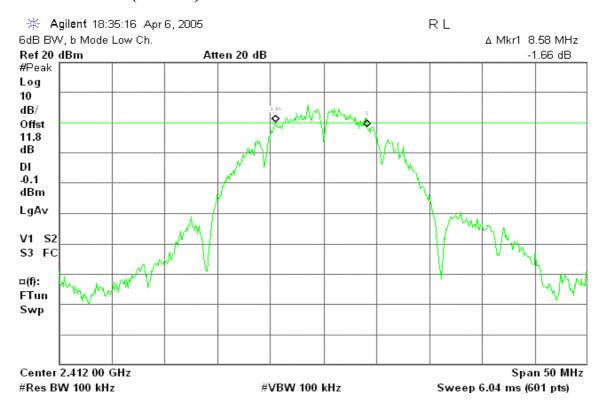
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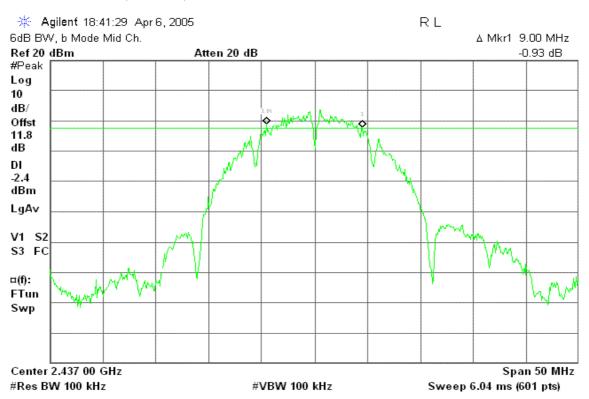
Test Plot

IEEE 802.11b mode

6dB Bandwidth (CH Low)



6dB Bandwidth (CH Mid)

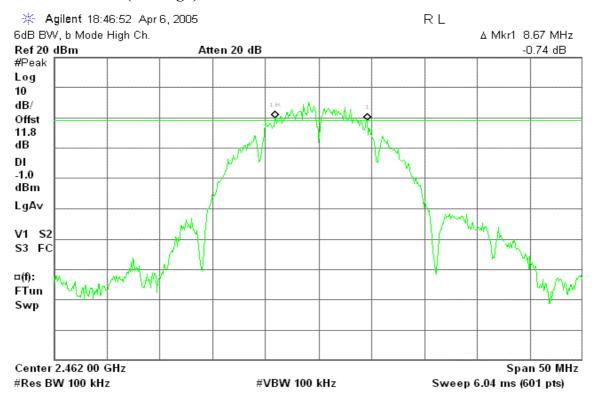


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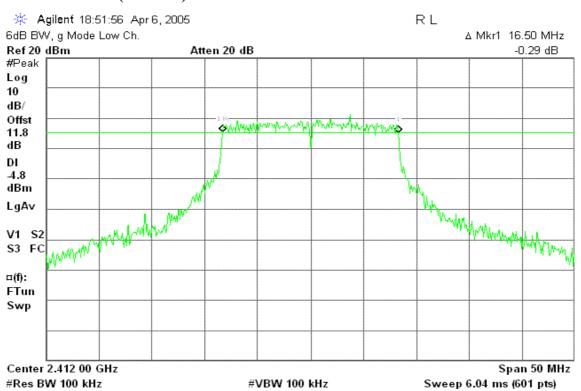
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6dB Bandwidth (CH High)



IEEE 802.11g mode

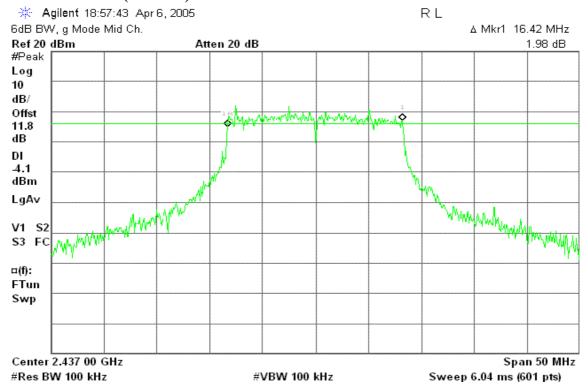
6dB Bandwidth (CH Low)



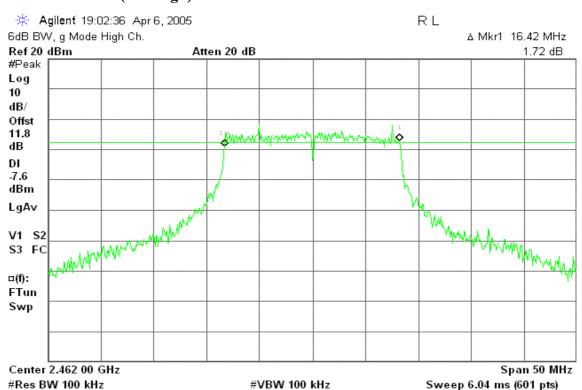
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6dB Bandwidth (CH Mid)



6dB Bandwidth (CH High)



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7.2 PEAK POWER

LIMIT

The maximum peak output power of the intentional radiator shall not exceed the following:

1. For systems using digital modulation in the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz: 1 watt.

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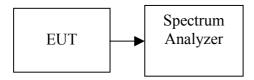
2. Except as shown in paragraphs (b)(3) (i), (ii) and (iii) of this section, if transmitting antennas of directional gain greater than 6 dBi are used the peak output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1) or (b)(2) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

MEASUREMENT EQUIPMENT USED

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	E4446A	MY43360131	01/10/2006

Remark: Each piece of equipment is scheduled for calibration once a year.

Test Configuration



TEST PROCEDURE

The transmitter output is connected to the Spectrum analyzer. The Spectrum analyzer is set to the peak power detection.

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TEST RESULTS

No non-compliance noted

Test Data

Test mode: IEEE 802.11b

Channel	Frequency (MHz)	Reading Power (dBm)	Factor (dB)	Output Power (dBm)	Output Power (W)	Limit (W)	Result
Low	2412	5.29	11.80	17.09	0.05117		PASS
Mid	2437	5.30	11.80	17.10	0.05129	1	PASS
High	2462	5.38	11.80	17.18	0.05224		PASS

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Test mode: IEEE 802.11g

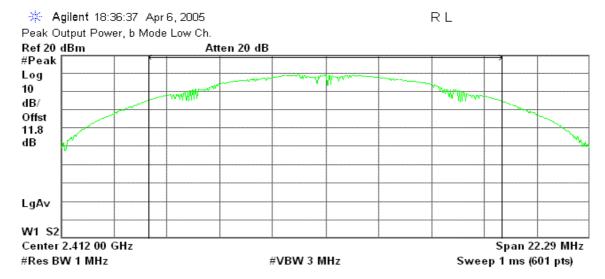
Channel	Frequency (MHz)	Reading Power (dBm)	Factor (dB)	Output Power (dBm)	Output Power (W)	Limit (W)	Result
Low	2412	5.54	11.80	17.34	0.05420		PASS
Mid	2437	5.77	11.80	17.57	0.05715	1	PASS
High	2462	2.23	11.80	14.03	0.02529		PASS

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Test Plot

IEEE 802.11b mode

Peak power (CH Low)



Channel Power

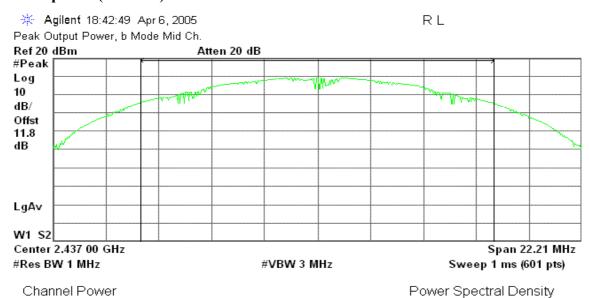
Power Spectral Density

17.09 dBm /14.8630 MHz

-54.63 dBm/Hz

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Peak power (CH Mid)

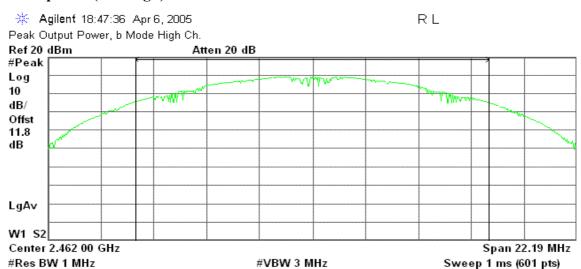


17.10 dBm / 14.8080 MHz

-54.60 dBm/Hz

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Peak power (CH High)



Channel Power

Power Spectral Density

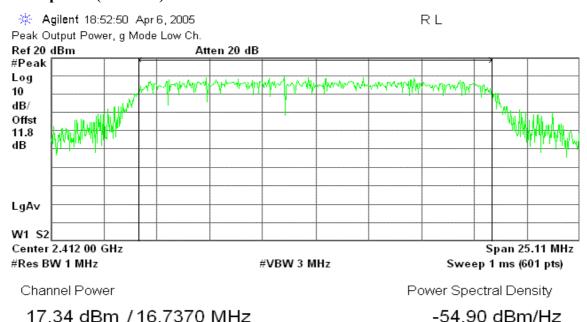
17.18 dBm /14.7940 MHz

-54.52 dBm/Hz

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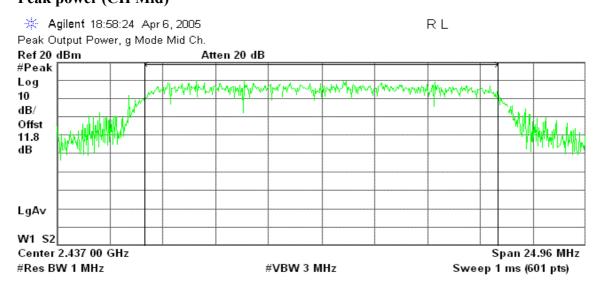
IEEE 802.11g mode

Peak power (CH Low)



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Peak power (CH Mid)



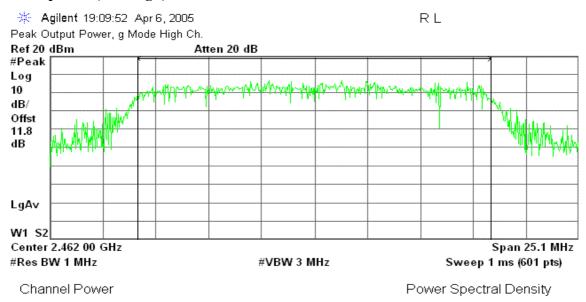
Channel Power 17.57 dBm / 16.6410 MHz

Power Spectral Density

-54.64 dBm/Hz

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Peak power (CH High)



14.03 dBm /16.7310 MHz

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-58.21 dBm/Hz

7.3 BAND EDGES MEASUREMENT

LIMIT

According to §15.247(c), in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in15.209(a).

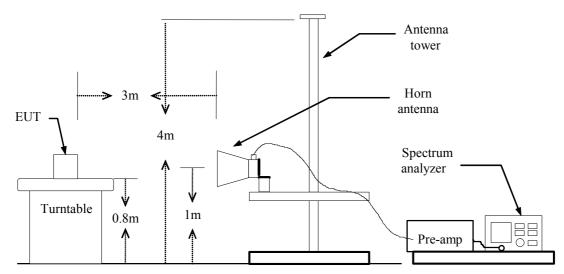
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MEASUREMENT EQUIPMENT USED

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	E4446A	MY43360131	01/10/2006

Remark: Each piece of equipment is scheduled for calibration once a year.

Test Configuration



TEST PROCEDURE

- 1. The EUT is placed on a turntable, which is 0.8m above the ground plane.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
- 4. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
 - (a) PEAK: RBW=VBW=1MHz / Sweep=AUTO
 - (b) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO
- 5. Repeat the procedures until all the PEAK and AVERAGE versus POLARIZATION are measured.

TEST RESULTS

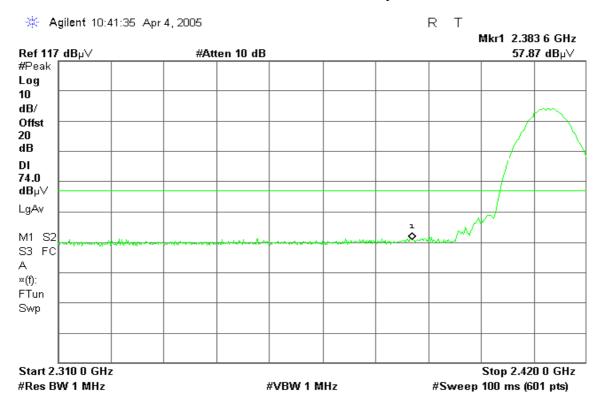
Refer to attach spectrum analyzer data chart.

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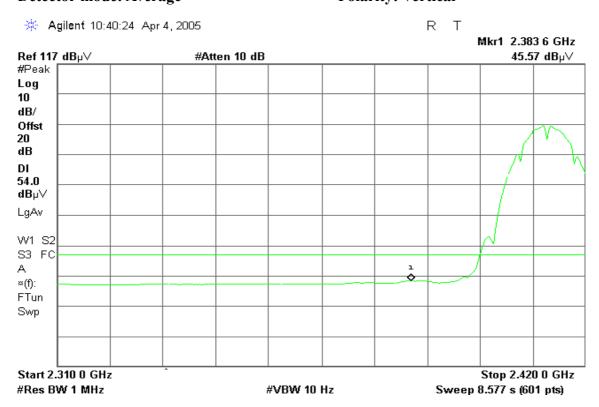
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Band Edges (IEEE 802.11b mode / CH Low)

Detector mode: Peak Polarity: Vertical



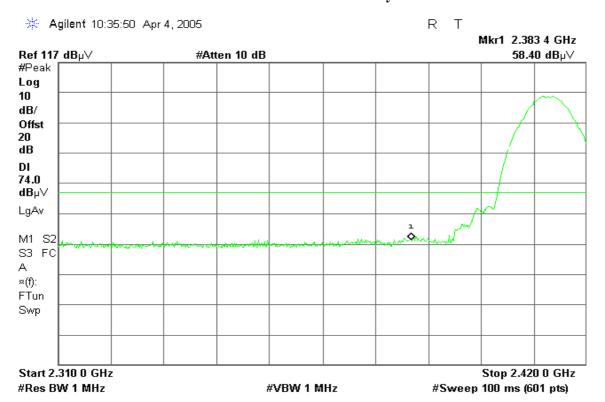
Detector mode: Average Polarity: Vertical



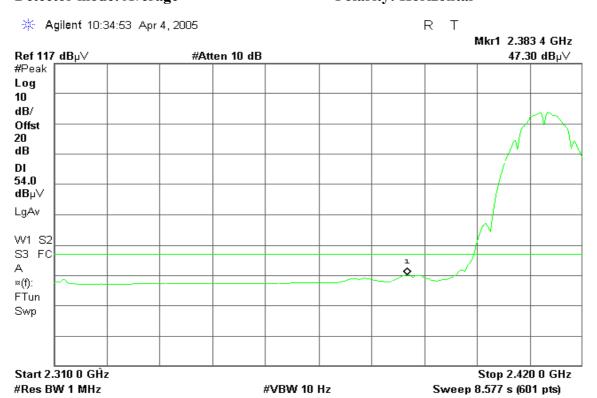
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Detector mode: Peak Polarity: Horizontal



Polarity: Horizontal Detector mode: Average

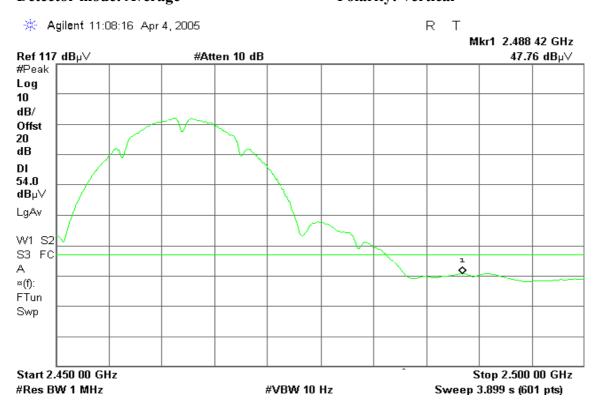


Page 23 Rev. 00 Band Edges (IEEE 802.11b mode / CH High)

Detector mode: Peak Polarity: Vertical



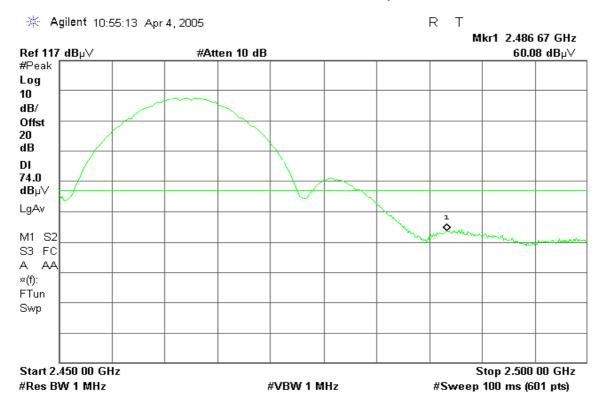
Detector mode: Average Polarity: Vertical



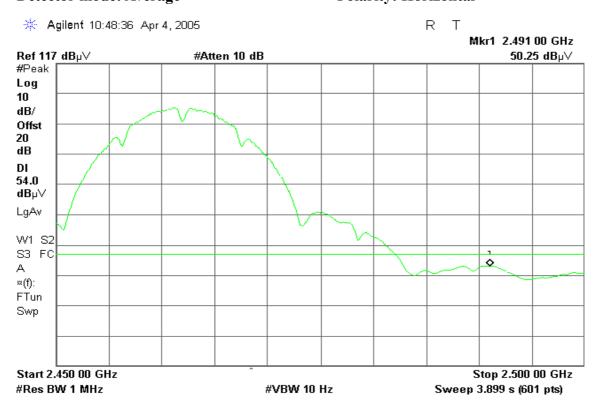
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Detector mode: Peak Polarity: Horizontal



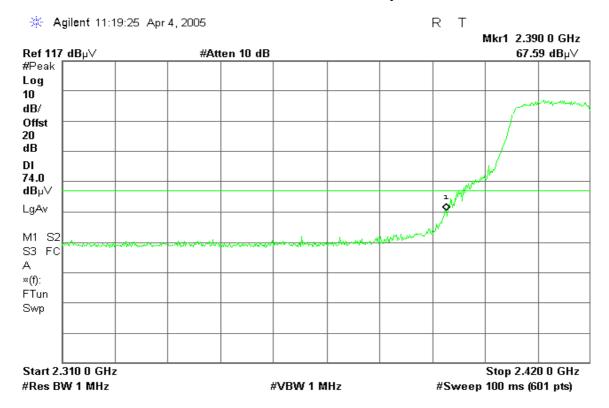
Polarity: Horizontal Detector mode: Average



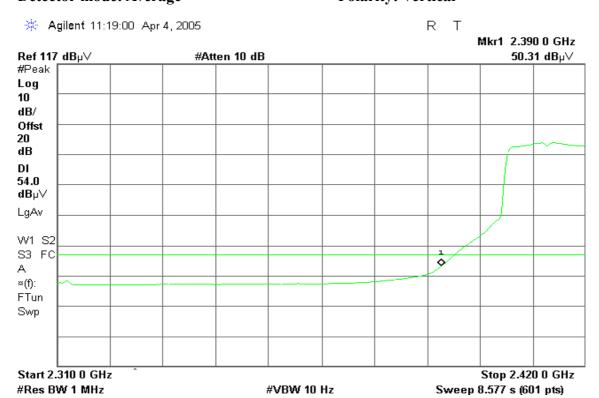
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Band Edges (IEEE 802.11g mode / CH Low)

Detector mode: Peak Polarity: Vertical



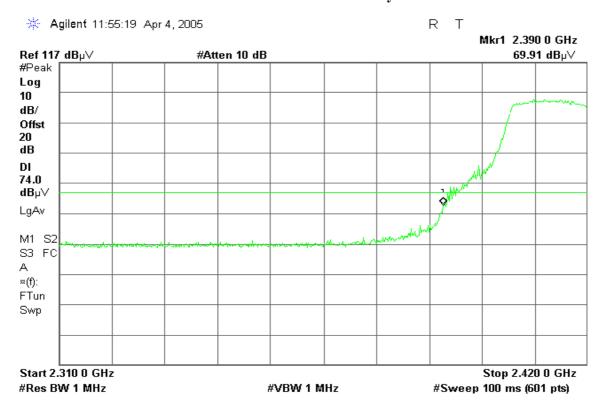
Detector mode: Average Polarity: Vertical



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Detector mode: Peak Polarity: Horizontal



Detector mode: Average Polarity: Horizontal

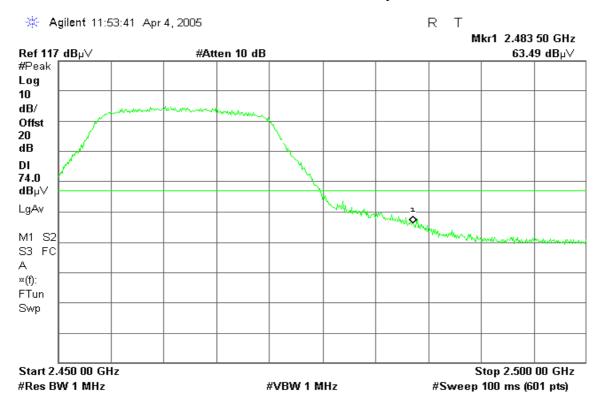


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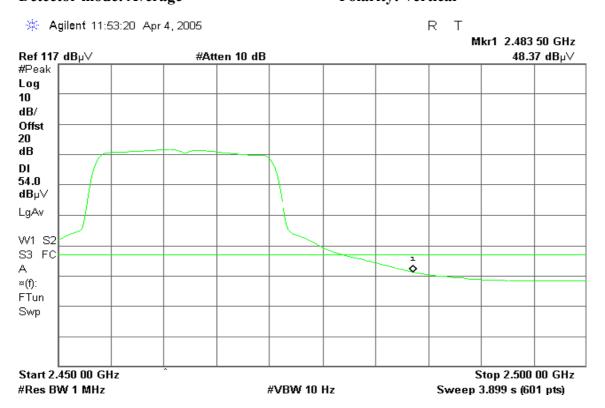
CC ID: Q3ZF10DA Date of Issue: April 11, 2005

Band Edges (IEEE 802.11g mode / CH High)

Detector mode: Peak Polarity: Vertical



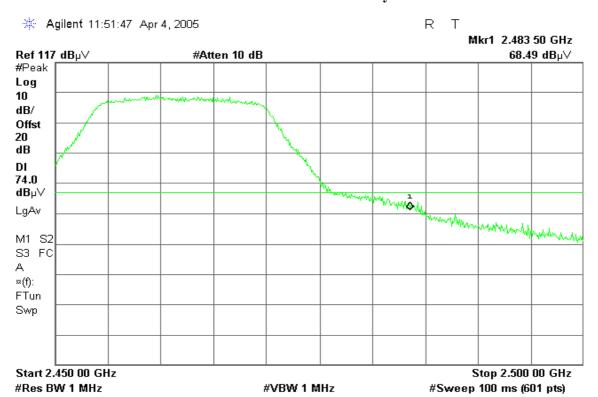
Detector mode: Average Polarity: Vertical



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Date of Issue: April 11, 2005

Detector mode: Peak Polarity: Horizontal



Polarity: Horizontal Detector mode: Average



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7.4 PEAK POWER SPECTRAL DENSITY

LIMIT

1. For direct sequence systems, the peak power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.

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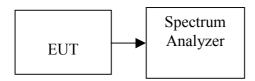
2. The direct sequence operating of the hybrid system, with the frequency hopping operation turned off, shall comply with the power density requirements of paragraph (d) of this section.

MEASUREMENT EQUIPMENT USED

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	E4446A	MY43360131	01/10/2006

Remark: Each piece of equipment is scheduled for calibration once a year.

Test Configuration



TEST PROCEDURE

- 1. Place the EUT on the table and set it in transmitting mode.

 Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 2. Set the spectrum analyzer as RBW = 3kHz, VBW = 10kHz, Span = 300kHz, Sweep=100s
- 3. Record the max. reading.
- 4. Repeat the above procedure until the measurements for all frequencies are completed.

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TEST RESULTS

No non-compliance noted

Test Data

Test mode: IEEE 802.11b

Channel	Frequency	Reading (dBm)	Factor (dB)	PPSD (dBm)	Limit (dBm)	Result
Low	2412	-19.23	11.80	-7.43		PASS
Mid	2437	-20.33	11.80	-8.53	8.00	PASS
High	2462	-18.42	11.80	-6.62		PASS

Test mode: IEEE 802.11g

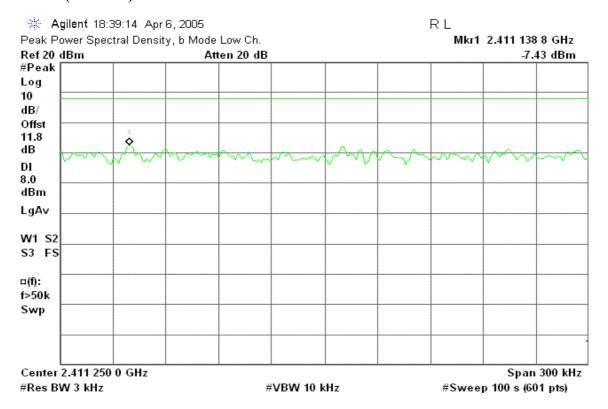
Channel	Frequency	Reading (dBm)	Factor (dB)	PPSD (dBm)	Limit (dBm)	Result
Low	2412	-23.22	11.80	-11.42		PASS
Mid	2437	-21.84	11.80	-10.04	8.00	PASS
High	2462	-26.41	11.80	-14.61		PASS

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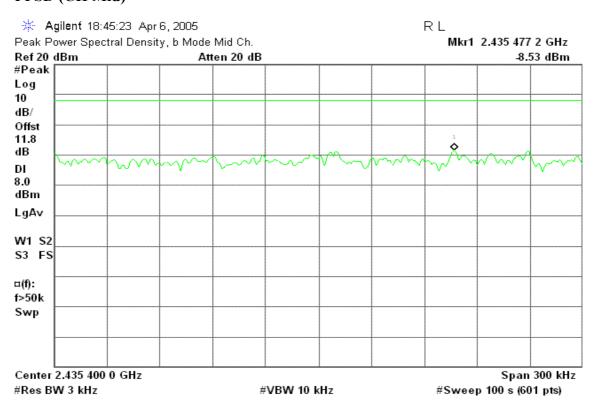
Test Plot

IEEE 802.11b mode

PPSD (CH Low)

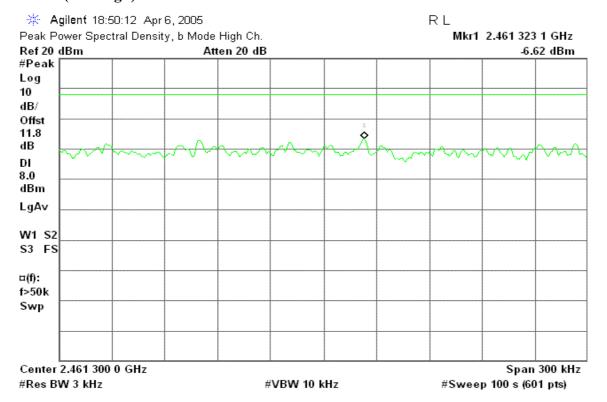


PPSD (CH Mid)



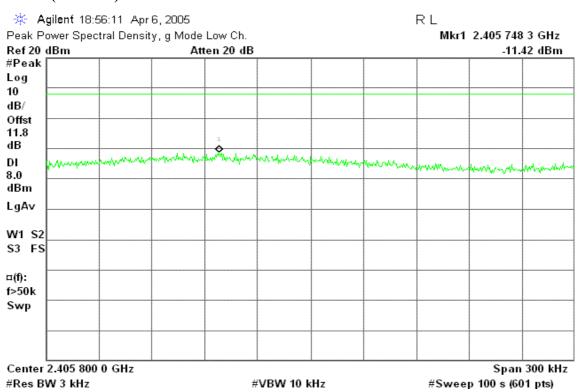
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PPSD (CH High)



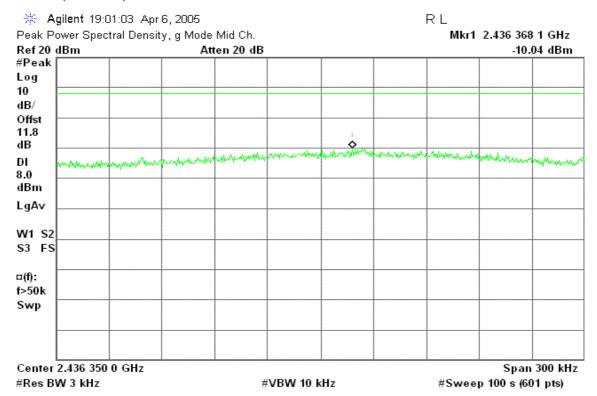
IEEE 802.11g mode

PPSD (CH Low)

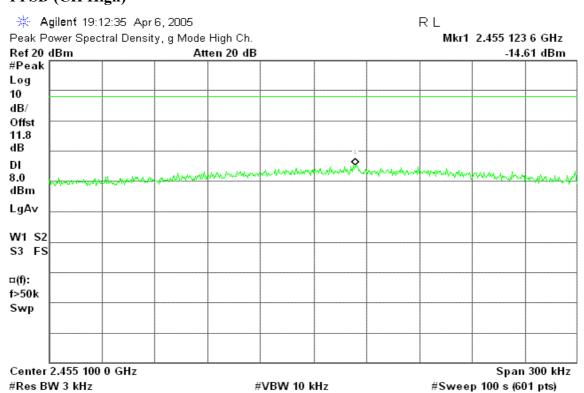


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PPSD (CH Mid)



PPSD (CH High)



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7.5 RADIO FREQUENCY EXPOSURE

LIMIT

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines. See §15.247(b)(4) and §1.1307(b)(1) of this chapter.

Date of Issue: April 11, 2005

EUT Specification

EUT	Notebook built-in (Intel 802.11b/g)				
Frequency band (Operating)	 WLAN: 2.412GHz ~ 2.462GHz WLAN: 5.18GHz ~ 5.32GHz / 5.50GHz ~ 5.70GHz WLAN: 5.745GHz ~ 5.825GHz Others 				
Device category	Portable (<20cm separation) Mobile (>20cm separation) Others				
Exposure classification	☐ Occupational/Controlled exposure (S = 5mW/cm2) ☐ General Population/Uncontrolled exposure (S=1mW/cm2)				
Antenna diversity	☐ Single antenna ☐ Multiple antennas ☐ Tx diversity ☐ Rx diversity ☐ Tx/Rx diversity				
Max. output power	IEEE 802.11b mode: 17.18 dBm (52.24mW) IEEE 802.11g mode: 17.57 dBm (57.15mW)				
Antenna gain (Max)	0.06 dBi (Numeric gain: 1.01)				
Evaluation applied					
 Remark: The maximum output power is 17.57dBm (57.15mW) at 2437MHz (with 1.01 numeric antenna gain.) DTS device is not subject to routine RF evaluation; MPE estimate is used to justify the compliance. For mobile or fixed location transmitters, no SAR consideration applied. The minimum separation generally be used is at least 20 cm, even if the calculations indicate that the MPE distance would be lesser. 					

TEST RESULTS

No non-compliance noted.

Remark: Please refer to the separated SAR report.

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7.6 SPURIOUS EMISSIONS

7.6.1 CONDUCTED MEASUREMENT

LIMIT

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

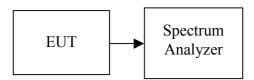
Date of Issue: April 11, 2005

MEASUREMENT EQUIPMENT USED

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	E4446A	MY43360131	01/10/2006

Remark: Each piece of equipment is scheduled for calibration once a year.

Test Configuration



TEST PROCEDURE

Conducted RF measurements of the transmitter output were made to confirm that the EUT antenna port conducted emissions meet the specified limit and to identify any spurious signals that require further investigation or measurements on the radiated emissions site.

The transmitter output is connected to the spectrum analyzer. The resolution bandwidth is set to 100 kHz. The video bandwidth is set to 300 kHz.

Measurements are made over the 30MHz to 26GHz range with the transmitter set to the lowest, middle, and highest channels.

TEST RESULTS

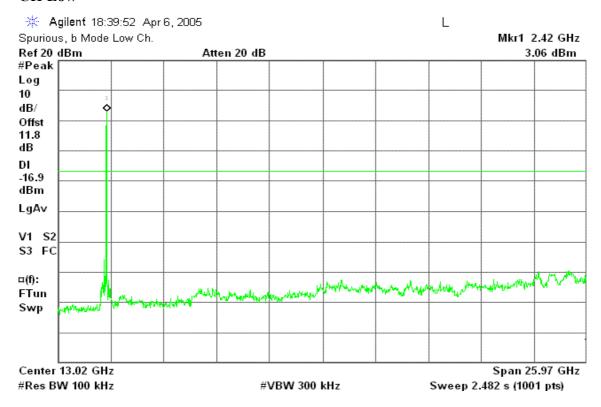
No non-compliance noted

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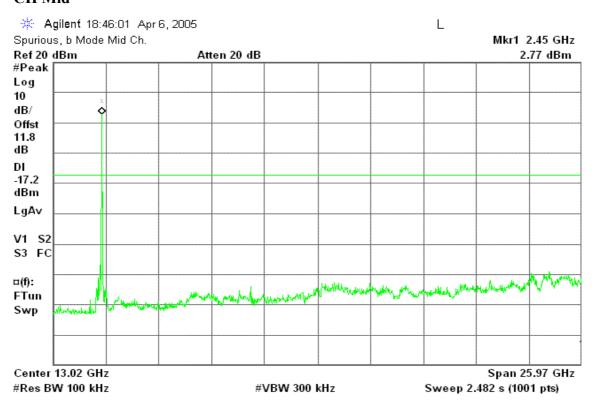
Test Plot

IEEE 802.11b mode

CH Low



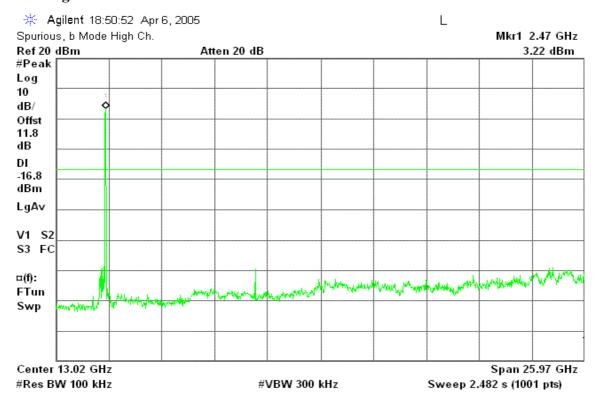
CH Mid



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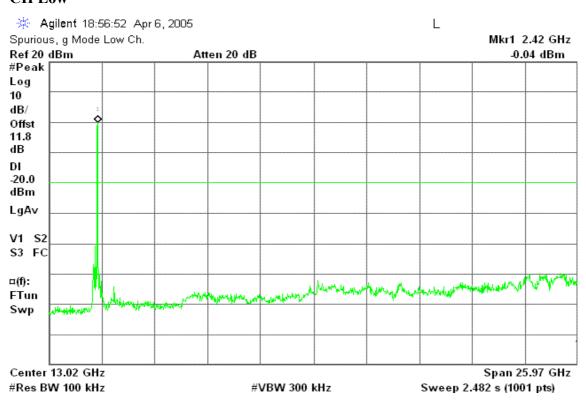
CC ID: Q3ZF10DA Date of Issue: April 11, 2005

CH High



IEEE 802.11g mode

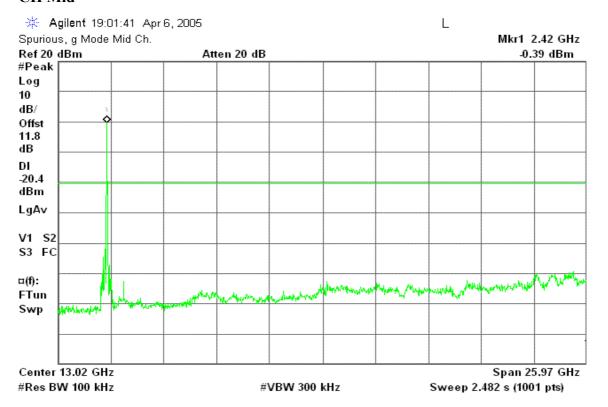
CH Low



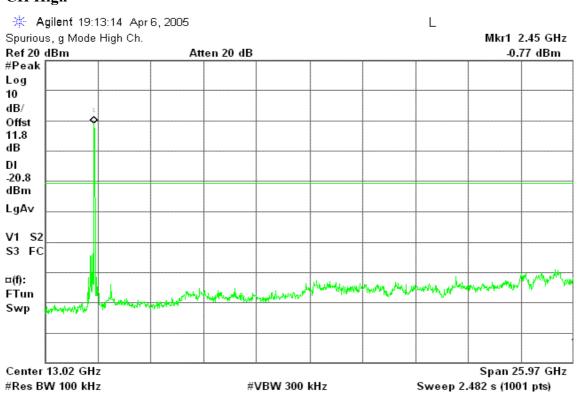
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FCC ID: Q3ZF10DA Date of Issue: April 11, 2005

CH Mid



CH High



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7.6.2 RADIATED EMISSIONS

LIMIT

1. Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Date of Issue: April 11, 2005

Frequency (MHz)	Field Strength (mV/m)	Measurement Distance (m)
30-88	100*	3
88-216	150*	3
216-960	200*	3
Above 960	500	3

Remark: Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

2. In the above emission table, the tighter limit applies at the band edges.

Frequency (Hz)	Field Strength (μV/m at 3-meter)	Field Strength (dBµV/m at 3-meter)		
30-88	100	40		
88-216	150	43.5		
216-960	200	46		
Above 960	500	54		

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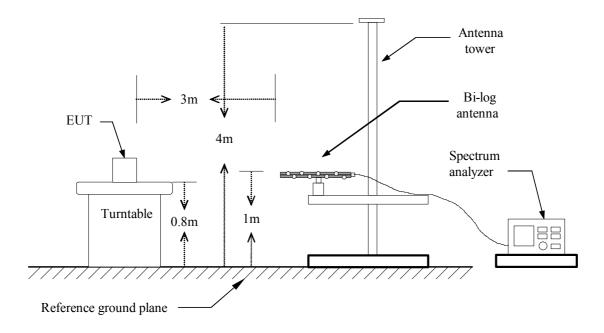
MEASUREMENT EQUIPMENT USED

	Open	Area Test Site #	‡ 3	
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
EMI Test Receiver	R&S	ESVS20	838804/004	01/08/2006
Spectrum Analyzer	R&S	FSP30	100112	09/23/2005
Spectrum Analyzer	Agilent	E4446A	MY43360131	01/10/2006
Pre-Amplifier	MITEC	AFS42-00102650	924206	N.C.R.
Pre-Amplifier	MITEC	AMF-6F-260400	945377	N.C.R.
Bilog Antenna	SCHWAZBECK	VULB9163	145	07/05/2005
Horn Antenna	EMCO	3115	00022250	04/18/2005
Horn Antenna	EMCO	3116	2487	12/08/2005
Turn Table	EMCO	2081-1.21	9709-1885	N.C.R
Antenna Tower	EMCO	2075-2	9707-2060	N.C.R
Controller	EMCO	2090	9709-1256	N.C.R
RF Switch	ANRITSU	MP59B	M53867	N.C.R
Site NSA	C&C	N/A	N/A	09/06/2005

Remark: Each piece of equipment is scheduled for calibration once a year.

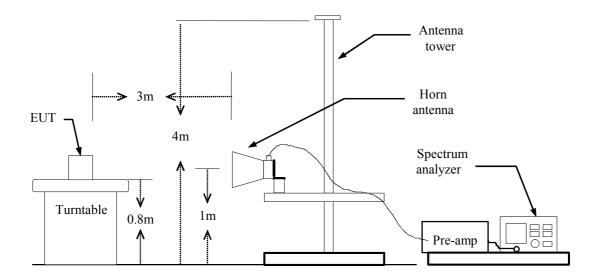
Test Configuration

Below 1 GHz



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Above 1 GHz



TEST PROCEDURE

- 1. The EUT is placed on a turntable, which is 0.8m above ground plane.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 6. Set the spectrum analyzer in the following setting as:

Below 1GHz:

Above 1GHz:

(a) PEAK: RBW=VBW=1MHz / Sweep=AUTO

(b) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO

7. Repeat above procedures until the measurements for all frequencies are complete.

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TEST RESULTS

Below 1 GHz

Operation Mode: Normal Link **Test Date:** March 30, 2005

Date of Issue: April 11, 2005

Temperature: 14°C **Tested by:** Roy Cheng

Humidity: 70 % RH **Polarity:** Ver. / Hor.

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit 3m (dBuV/m)	Safe Margin (dB)
251.02	V	Peak	17.40	13.50	30.90	46.00	-15.10
277.97	V	Peak	16.20	16.10	32.30	46.00	-13.70
316.92	V	Peak	18.70	16.30	35.00	46.00	-11.00
479.70	V	Peak	17.60	20.20	37.80	46.00	-8.20
599.63	V	Peak	14.80	22.10	36.90	46.00	-9.10
698.89	V	Peak	14.70	23.80	38.50	46.00	-7.50
258.50	Н	Peak	14.70	14.40	29.10	46.00	-16.90
316.93	Н	Peak	20.60	16.30	36.90	46.00	-9.10
356.54	Н	Peak	18.80	18.00	36.80	46.00	-9.20
475.27	Н	Peak	14.40	20.10	34.50	46.00	-11.50
679.57	Н	Peak	9.90	23.70	33.60	46.00	-12.40
702.20	Н	Peak	11.30	23.90	35.20	46.00	-10.80

Remark:

- 1. Measuring frequencies from 30 MHz to the 1GHz.
- 2. Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak detector mode.
- 3. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4. The IF bandwidth of SPA between 30MHz to 1GHz was 100kHz.

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Above 1 GHz

Operation Mode: TX / IEEE 802.11b mode / CH Low Test Date: April 4, 2005

Date of Issue: April 11, 2005

Temperature: 21°C **Tested by:** Tom Jen **Humidity:** 55% RH **Polarity:** Ver. / Hor.

Емод	Ant. Pol	Peak	AV	Ant. / CL	Actu	al Fs	Peak	AV	Margin	
Freq. (MHz)	H/V	Reading (dBuV)	Reading (dBuV)	CF (dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1113.00	V	63.51		-12.93	50.58		74.00	54.00	-3.42	Peak
3213.00	V	56.14		-7.95	48.19		74.00	54.00	-5.81	Peak
9650.00	V	47.12	42.89	6.58	53.70	49.47	74.00	54.00	-4.53	Average
N/A										
1303.00	Н	57.71		-12.06	45.65		74.00	54.00	-8.35	Peak
N/A										

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4. Spectrum setting:
 - a. Peak Setting 1GHz to 10th harmonics of fundamental, RBW = 1MHz, VBW = 1MHz, Sweep time = Auto.
 - b. AV Setting 1GH z to 10th harmonics of fundamental, RBW = 1MHz, VBW = 10Hz, Sweep time = Auto.

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Operation Mode: TX / IEEE 802.11b mode / CH Mid **Test Date:** April 4, 2005

Date of Issue: April 11, 2005

Temperature: 21°C **Tested by:** Tom Jen **Humidity:** 55% RH **Polarity:** Ver. / Hor.

Emag	Ant. Pol	Peak	AV	Ant. / CL	Actu	al Fs	Peak	AV	Mangin	
Freq. (MHz)	H/V	Reading (dBuV)	Reading (dBuV)	CF (dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
3247.00	V	55.28		-7.92	47.36		74.00	54.00	-6.64	Peak
9750.00	V	47.83	42.50	6.72	54.55	49.22	74.00	54.00	-4.78	Average
N/A										
1103.00	Н	59.40		-12.97	46.43		74.00	54.00	-7.57	Peak
3247.00	Н	54.06		-7.92	46.14		74.00	54.00	-7.86	Peak
9750.00	Н	46.62	42.00	6.72	53.34	48.72	74.00	54.00	-5.28	Average
N/A										

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4. Spectrum setting:
 - a. Peak Setting 1GHz to 10th harmonics of fundamental, RBW = 1MHz, VBW = 1MHz, Sweep time = Auto.
 - b. AV Setting 1GH z to 10th harmonics of fundamental, RBW = 1MHz, VBW = 10Hz, Sweep time = Auto.

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Operation Mode: TX / IEEE 802.11b mode / CH High **Test Date:** April 4, 2005

Date of Issue: April 11, 2005

Temperature:21°CTested by:Tom JenHumidity:55% RHPolarity:Ver. / Hor.

Емод	Ant. Pol	Peak	AV	Ant. / CL	Actu	al Fs	Peak	AV	Mangin	
Freq. (MHz)	H/V	Reading (dBuV)	Reading (dBuV)	CF (dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4924.00	V	55.99		-5.34	50.65		74.00	54.00	-3.35	Peak
N/A										
4924.00	Н	53.46		-5.34	48.12		74.00	54.00	-5.88	Peak
9848.00	Н	47.93	41.93	6.87	54.80	48.80	74.00	54.00	-5.20	Average
N/A										

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4. Spectrum setting:
 - a. Peak Setting 1GHz to 10th harmonics of fundamental, RBW = 1MHz, VBW = 1MHz, Sweep time = Auto.
 - b. AV Setting 1GH z to 10th harmonics of fundamental, RBW = 1MHz, VBW = 10Hz, Sweep time = Auto.

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Operation Mode: TX / IEEE 802.11g mode / CH Low **Test Date:** April 4, 2005

Date of Issue: April 11, 2005

Temperature: 21°C **Tested by:** Tom Jen **Humidity:** 55% RH **Polarity:** Ver. / Hor.

Frag	Ant. Pol	Peak	AV	Ant. / CL	Actu	al Fs	Peak	AV	Margin	
Freq. (MHz)	H/V	Reading (dBuV)	Reading (dBuV)	CF (dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1120.00	V	63.10		-12.88	50.22		74.00	54.00	-3.78	Peak
3217.00	V	56.75		-7.95	48.80		74.00	54.00	-5.20	Peak
N/A										
1113.00	Н	59.15		-12.93	46.22		74.00	54.00	-7.78	Peak
3217.00	Н	55.34		-7.95	47.39		74.00	54.00	-6.61	Peak
N/A										

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4. Spectrum setting:
 - a. Peak Setting 1GHz to 10th harmonics of fundamental, RBW = 1MHz, VBW = 1MHz, Sweep time = Auto.
 - b. AV Setting 1GH z to 10th harmonics of fundamental, RBW = 1MHz, VBW = 10Hz, Sweep time = Auto.

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Operation Mode: TX / IEEE 802.11g mode / CH Mid **Test Date:** April 4, 2005

Date of Issue: April 11, 2005

Temperature:21°CTested by:Tom JenHumidity:55% RHPolarity:Ver. / Hor.

Емод	Ant. Pol	Peak	AV	Ant. / CL	Actu	al Fs	Peak	AV	Mangin	
Freq. (MHz)	H/V	Reading (dBuV)	Reading (dBuV)	CF (dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1117.00	V	63.85		-12.93	50.92		74.00	54.00	-3.08	Peak
3247.00	V	56.09		-7.92	48.17		74.00	54.00	-5.83	Peak
N/A										
1103.00	Н	58.47		-12.97	45.50		74.00	54.00	-8.50	Peak
3247.00	Н	53.40		-7.92	45.48		74.00	54.00	-8.52	Peak
7242.00	Н	48.99		-0.22	48.77		74.00	54.00	-5.23	Peak
N/A										

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4. Spectrum setting:
 - a. Peak Setting 1GHz to 10th harmonics of fundamental, RBW = 1MHz, VBW = 1MHz, Sweep time = Auto.
 - b. AV Setting 1GH z to 10th harmonics of fundamental, RBW = 1MHz, VBW = 10Hz, Sweep time = Auto.

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Operation Mode: TX / IEEE 802.11g mode / CH High **Test Date:** April 4, 2005

Date of Issue: April 11, 2005

Temperature: 21°C **Tested by:** Tom Jen **Humidity:** 55% RH **Polarity:** Ver. / Hor.

Euro	Ant Dol	Peak	AV	Ant. / CL	Actu	al Fs	Peak	AV	Maugin	
Freq. (MHz)	Ant. Pol H/V	Reading (dBuV)	Reading (dBuV)	CF (dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1493.00	V	59.76		-11.19	48.57		74.00	54.00	-5.43	Peak
3280.00	V	55.31		-7.88	47.43		74.00	54.00	-6.57	Peak
N/A										
1077.00	Н	58.61		-13.11	45.50		74.00	54.00	-8.50	Peak
3280.00	Н	52.42		-7.88	44.54		74.00	54.00	-9.46	Peak
N/A										

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4. Spectrum setting:
 - a. Peak Setting 1GHz to 10th harmonics of fundamental, RBW = 1MHz, VBW = 1MHz, Sweep time = Auto.
 - b. AV Setting 1GH z to 10th harmonics of fundamental, RBW = 1MHz, VBW = 10Hz, Sweep time = Auto

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7.7 POWERLINE CONDUCTED EMISSIONS

LIMIT

For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range is listed as follows:

Date of Issue: April 11, 2005

Frequency Range (MHz)	Limits (dBμV)					
Frequency Range (WITIZ)	Quasi-peak	Average				
0.15 to 0.50	66 to 56	56 to 46				
0.50 to 5	56	46				
5 to 30	60	50				

Compliance with this provision shall be based on the measurement of the radio frequency voltage between each power line (*Live Line* and *Neutral Line*) and ground at the power terminals.

MEASUREMENT EQUIPMENT USED

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
EMI TEST RECEIVER 9kHz-30MHz	ROHDE & SCHWARZ	ESHS30	828144/003	09/24/2005
TWO-LINE V-NETWORK 9kHz-30MHz	SCHAFFNER	NNB41	03/10013	06/11/2005
LISN 10kHz-100MHz	EMCO	3825/2	9106-1809	02/17/2006

Remark: Each piece of equipment is scheduled for calibration once a year.

Test Configuration

See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

TEST PROCEDURE

- 1. The EUT was placed on a table, which is 0.8m above ground plane.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. Repeat above procedures until all frequency measured were complete.

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TEST RESULTS

The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. Significant peaks are then marked as shown on the following data page, and these signals are then quasi-peaked.

Date of Issue: April 11, 2005

Test Data

Operation Mode: TX mode **Test Date:** March 30, 2005

Temperature: 25°C **Humidity:** 55% RH

Tested by: Jason Lin

Freq. (MHz)	QP Reading	AV Reading	Corr. factor	QP Result	AV Result	QP Limit	AV Limit	QP Margin	AV Margin	Note
0.179	47.260	38.790	0.142	47.402	38.932	64.532	54.532	-17.130	-15.600	L1
0.360	37.560	37.080	0.100	37.660	37.180	58.729	48.729	-21.069	-11.549	L1
0.480	33.340	32.660	0.100	33.440	32.760	56.339	46.339	-22.899	-13.579	L1
0.545	32.300	31.900	0.100	32.400	32.000	56.000	46.000	-23.600	-14.000	L1
0.787	31.520	31.240	0.100	31.620	31.340	56.000	46.000	-24.380	-14.660	L1
1.331	33.880	32.560	0.100	33.980	32.660	56.000	46.000	-22.020	-13.340	L1
0.177	44.880	36.690	0.146	45.026	36.836	64.625	54.625	-19.599	-17.789	L2
0.360	36.040	35.490	0.100	36.140	35.590	58.729	48.729	-22.589	-13.139	L2
0.545	28.840	28.040	0.100	28.940	28.140	56.000	46.000	-27.060	-17.860	L2
0.727	28.620	27.540	0.100	28.720	27.640	56.000	46.000	-27.280	-18.360	L2
0.787	29.620	28.930	0.100	29.720	29.030	56.000	46.000	-26.280	-16.970	L2
1.385	31.900	31.490	0.100	32.000	31.590	56.000	46.000	-24.000	-14.410	L2

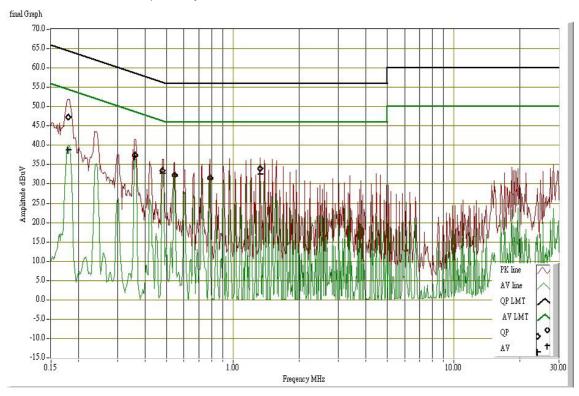
Remark:

- 1. Measuring frequencies from 0.15 MHz to 30MHz.
- 2. The emissions measured in frequency range from 0.15 MHz to 30MHz were made with an instrument using Quasi-peak detector and average detector.
- 3. "---" denotes the emission level was or more than 2dB below the Average limit
- 4. The IF bandwidth of SPA between 0.15MHz to 30MHz was 10kHz; the IF bandwidth of Test Receiver between 0.15MHz to 30MHz was 9kHz;
- 5. $L1 = Line \ One \ (Live \ Line) \ / \ L2 = Line \ Two \ (Neutral \ Line)$

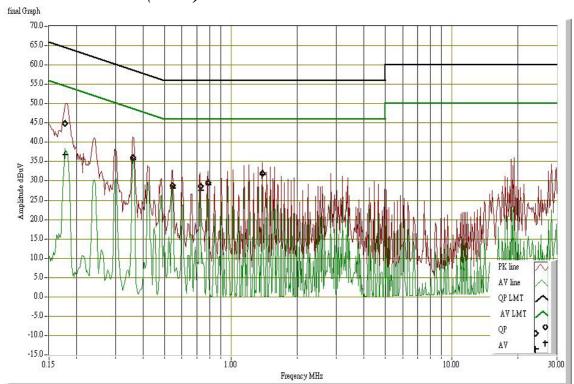
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Test Plots

Conducted emissions (Line 1)



Conducted emissions (Line 2)



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