FCC 47 CFR PART 15 SUBPART C

TEST REPORT

For

VMOD

Model: 07-5175-000

Trade Name: N/A

Issued to

TMI PRODUCTS, INC. 1493 Bentley Dr. Corona, CA 92879, USA

Issued by



Compliance Certification Services Inc.
No. 81-1, Lane 210, Bade Rd. 2, Luchu Hsiang,
Taoyuan Hsien, (338) Taiwan, R.O.C.
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Date of Issue: April 25, 2008

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1. TEST RESULT CERTIFICATION

Applicant: TMI PRODUCTS, INC.

1493 Bentley Dr. Corona, CA 92879, USA

Date of Issue: April 25, 2008

Equipment Under Test: VMOD

Trade Name: N/A

Model: 07-5175-000

Date of Test: November 20 ~ December 4, 2007

APPLICABLE STANDARDS				
STANDARD TEST RESULT				
FCC 47 CFR 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: 2003 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:

Rex Lai Amanda Wu Section Manager Section Manager

Compliance Certification Services Inc.

Compliance Certification Services Inc.

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2. EUT DESCRIPTION

Product	VMOD
Trade Name	N/A
Model Number	07-5175-000
Model Discrepancy	N/A
Power Supply	DC 12V
Frequency Range	2412 ~ 2462 MHz
Transmit Power	IEEE 802.11b: 17.66 dBm IEEE 802.11g: 14.56 dBm
Modulation Technique	IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g: DSSS (CCK, DQPSK, DBPSK) + OFDM (QPSK, BPSK, 16-QAM, 64-QAM)
Transmit Data Rate	IEEE 802.11b: 11, 5.5, 2, 1 Mbps IEEE 802.11g: 54, 48, 36, 24, 18, 12, 11, 9, 6, 5.5, 2, 1 Mbps
Number of Channels	11 Channels
Antenna Specification	2.09 dBi
Antenna Designation	Dipole Antenna

Remark:

- 1. The sample selected for test was production product and was provided by manufacturer.
- 2. This submittal(s) (test report) is intended for FCC ID: <u>V2M075175000</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	$\binom{2}{}$
13.36 - 13.41	322 - 335.4		

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

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² Above 38.6

⁽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: 07-5175-000) had been tested under operating condition.

Software used to control the EUT for staying in continuous transmitting mode was programmed.

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After verification, all tests were carried out with the worst case test modes as shown below except radiated spurious emission below 1GHz and power line conducted emissions below 30MHz, which worst case was in normal link mode only.

IEEE 802.11b mode:

Channel Low (2412MHz), Channel Mid (2437MHz) and Channel High(2462MHz) with 1Mbps data rate were chosen for full testing.

IEEE 802.11g mode:

Channel Low (2412MHz), Channel Mid (2437MHz) and Channel High(2462MHz) with 6Mbps data rate were chosen for full testing.

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4. INSTRUMENT CALIBRATION

4.1 MEASURING 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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4.2 MEASUREMENT EQUIPMENT USED

Equipment Used for Emissions Measurement

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

Conducted Emissions Test Site						
Name of Equipment Manufacturer Model Serial Number Calibration Duc						
Spectrum Analyzer Agilent E4446A MY43360131 01/29/2009						

3M Semi Anechoic Chamber						
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due		
Spectrum Analyzer	Agilent	E4446A	US42510252	08/01/2008		
Test Receiver	Rohde&Schwarz	ESCI	100064	11/12/2008		
Switch Controller	TRC	Switch Controller	SC94050010	05/04/2008		
4 Port Switch	TRC	4 Port Switch	SC94050020	05/04/2008		
Horn-Antenna	TRC	HA-0502	06	06/05/2008		
Horn-Antenna	TRC	HA-0801	04	06/20/2008		
Horn-Antenna	TRC	HA-1201A	01	08/12/2008		
Horn-Antenna	TRC	HA-1301A	01	08/12/2008		
Bilog- Antenna	Sunol Sciences	JB3	A030205	03/28/2009		
Turn Table	Max-Full	MFT-120S	T120S940302	N.C.R.		
Antenna Tower	Max-Full	MFA-430	A440940302	N.C.R.		
Controller	Max-Full	MF-CM886	CC-C-1F-13	N.C.R.		
Site NSA	CCS	N/A	FCC: 965860 IC: IC 6106	09/25/2008		
Test S/W	t S/W LABVIEW (V 6.1)					

Remark: The measurement uncertainty is less than +/-2.0dB (30MHz ~ 1GHz), +/-3.1dB (Above 1GHz) which is evaluated as per the NAMAS NIS 81 and CISPR/A/291/CDV.

Powerline Conducted Emissions Test Site							
Name of Equipment Manufacturer Model Serial Number Calibrat							
EMI Test Receiver 9kHz-30MHz	Rohde & Schwarz	ESHS30	828144/003	10/30/2008			
Two-Line V-Network 9kHz-30MHz	Schaffner	NNB41	03/10013	06/12/2008			
LISN 10kHz-100MHz	EMCO	3825/2	9106-1809	04/31/2009			
ISN 9kHz-30MHz	FCC	FCC-TLISN-T4	20167	09/14/2008			
Test S/W	LABVIEW (V 6.1)						

Remark: The measurement uncertainty is less than +/- 2.81dB, which is evaluated as per the NAMAS NIS 81 and CISPR/A/291/CDV.

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5. FACILITIES AND ACCREDITATIONS

5.1 FACILITIES

All measurement facilities used to collect the measurement data are located at
□ No.199, Chunghsen Road, Hsintien City, Taipei Hsien, Taiwan, R.O.C.
Tel: 886-2-2217-0894 / Fax: 886-2-2217-1029
☑ No.11, Wugong 6th Rd., Wugu Industrial Park, Taipei Hsien 248, Taiwan
Tel: 886-2-2299-9720 / Fax: 886-2-2298-4045
☑ No.81-1, Lane 210, Bade 2nd Rd., Luchu Hsiang, Taoyuan Hsien 338, Taiwan
Tel: 886-3-324-0332 / Fax: 886-3-324-5235

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22.

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."

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5.3 TABLE OF ACCREDITATIONS AND LISTINGS

Country	Agency	Scope of Accreditation	Logo
USA	A2LA	EN 55011, EN 55014-1/2, CISPR 11, CISPR 14-1/2, EN 55022, EN 55015, CISPR 22, CISPR 15, AS/NZS 3548, VCCI V3 (2001), CFR 47, FCC Part 15/18, CNS 13783-1, CNS 13439, CNS 13438, CNS 13803, CNS 14115, EN 55024, IEC 801-2, IEC 801-3, IEC 801-4, IEC/EN 61000-3-2, IEC/EN 61000-3-3, IEC/EN 61000-4-2/3/4/5/6/8/11, EN 50081-1/ EN 61000-6-3, EN 50081-2/EN 61000-6-4, EN 50081-2/EN 61000-6-1: 2001	ACCREDITED TESTING CERT #0824.01
USA	FCC	3/10 meter Open Area Test Sites (93105, 90471) / 3M Semi Anechoic Chamber (965860) to perform FCC Part 15/18 measurements	93105, 90471 965860
Japan	VCCI	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, 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	TAF	EN 300 328, EN 300 220-1, EN 300 220-2, EN 300 220-3, 47 CFR FCC Part 15 Subpart C, EN 61000-3-2, EN 61000-3-3, CNS 13439, CNS 13783-1, CNS 14115, CNS 13438, AS/NZS CISPR 22, CNS 13022-1, IEC 61000-4-2/3/4/5/6/8/11, CNS 13022-2/3	Testing Laboratory 0363
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	3/10 meter Open Area Test Sites (IC 2324C-3, IC 2324C-5) / 3M Semi Anechoic Chamber (IC 6106)	Canada IC 2324C-3 IC 2324C-5 IC 6106

^{*} No part of this report may be used to claim or imply product endorsement by A2LA 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
1.	TV Monitor	ТОРТЕК	N/A	12050204	FCC DoC	Shielded, 1.8m with 2 cores	Unshielded, 1.8m
2.	LCD Monitor	Dell	2407WFPb	CN-0FC255-46633 -675-22TJS	FCC DoC	Shielded, 1.8m with 2 cores	Unshielded, 1.8m
3.	USB Keyboard	Dell	Sk-8115	N/A	FCC DoC	Shielded, 1.8m	N/A
4.	USB Mouse	Dell	MO56UO	408031121	FCC DoC	Shielded, 1.8m	N/A
5.	USB Mouse	Logitech	M-BB48	LZE01360732	FCC DoC	Shielded, 1.8m	N/A
6.	Battery	YUASA	48D26R	3D108 3E02	N/A	N/A	Shielded, 2.0m
7.	Multimedia Earphone	Labtec	Axis-301	N/A	FCC DoC	Unshielded, 1.8m*2	N/A
8.	iPod nano	Apple	MA978TA/A	YM741QDHY0P	N/A	USB Cable, Unshielded, 1m	N/A
9.	iPod nano	Apple	MA978TA/A	YM741QABY0P	N/A	USB Cable, Unshielded, 1m	N/A
10.	iPod nano	Apple	MA978TA/A	YM741PK4Y0P	N/A	USB Cable, Unshielded, 1m	N/A
11.	iPod nano	Apple	MA978TA/A	YM741Q79Y0P	N/A	USB Cable, Unshielded, 1m	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

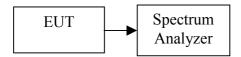
7.1 6DB BANDWIDTH

LIMIT

According to \$15.247(a)(2), systems using digital modulation techniques may operate in the 902 - 928 MHz, 2400 - 2483.5 MHz, and 5725 - 5850 MHz bands. The minimum 6dB bandwidth shall be at least 500 kHz.

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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 = 100 kHz, VBW = RBW, Span = 50 MHz, 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 (MHz)	Limit (kHz)	Result
Low	2412	11.75		PASS
Mid	2437	12.67	>500	PASS
High	2462	11.58		PASS

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Test mode: IEEE 802.11g

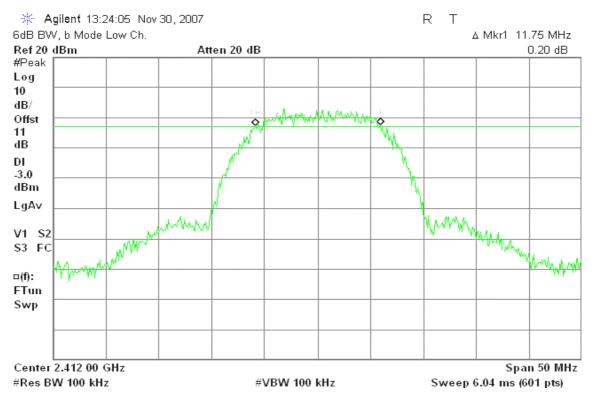
Channel	Frequency (MHz)	Bandwidth (MHz)	Limit (kHz)	Result
Low	2412	16.50		PASS
Mid	2437	16.42	>500	PASS
High	2462	16.50		PASS

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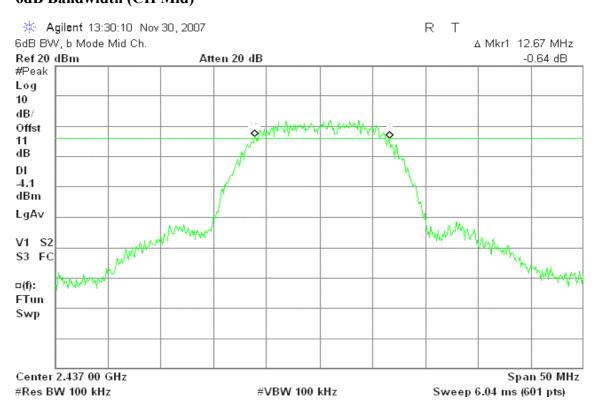
Test Plot

IEEE 802.11b

6dB Bandwidth (CH Low)

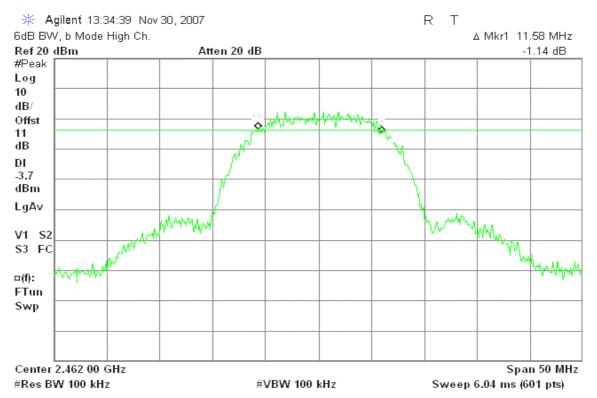


6dB Bandwidth (CH Mid)



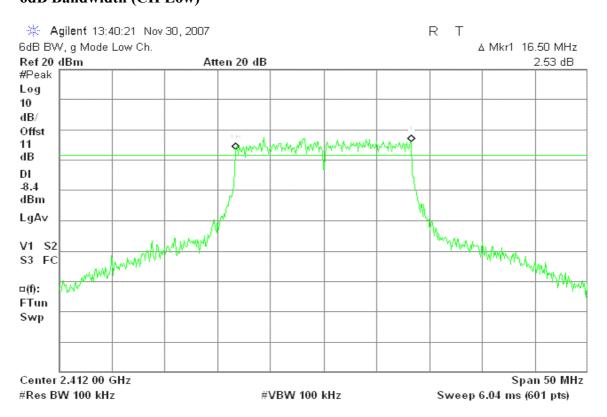
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6dB Bandwidth (CH High)



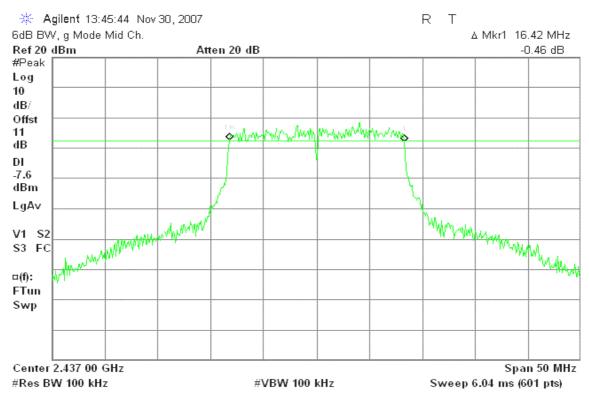
IEEE 802.11g

6dB Bandwidth (CH Low)

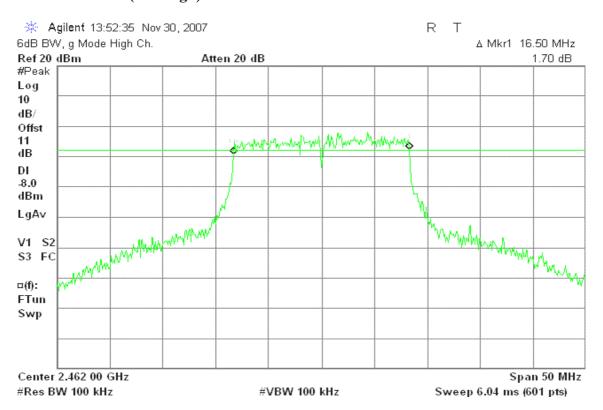


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6dB Bandwidth (CH Mid)



6dB Bandwidth (CH High)



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7.2 PEAK POWER

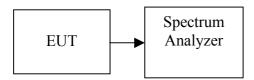
LIMIT

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

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- 1. According to §15.247(b)(3), for systems using digital modulation in the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz: 1 Watt.
- 2. According to §15.247(b)(4), the conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Test Configuration



TEST PROCEDURE

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

TEST RESULTS

No non-compliance noted

Test Data

Test mode: IEEE 802.11b

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Limit (W)	Result
Low	2412	17.66	0.0583		PASS
Mid	2437	17.46	0.0557	1.00	PASS
High	2462	17.11	0.0514		PASS

Test mode: IEEE 802.11g

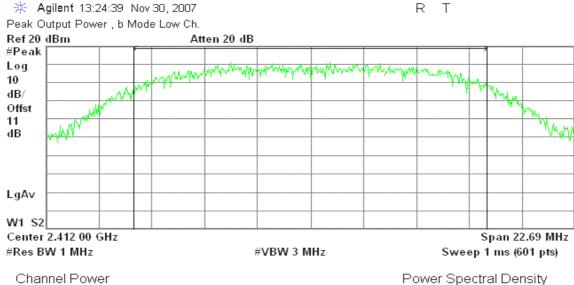
Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Limit (W)	Result
Low	2412	14.13	0.0259		PASS
Mid	2437	14.56	0.0286	1.00	PASS
High	2462	14.38	0.0274		PASS

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Test Plot

IEEE 802.11b

Peak Power (CH Low)

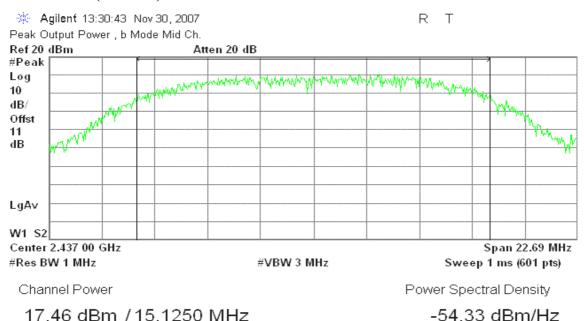


17.66 dBm / 15.1260 MHz

-54.13 dBm/Hz

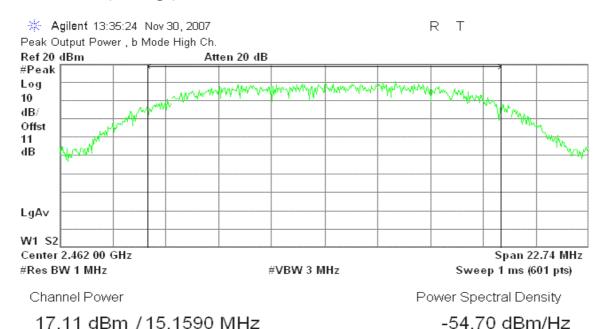
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Peak Power (CH Mid)



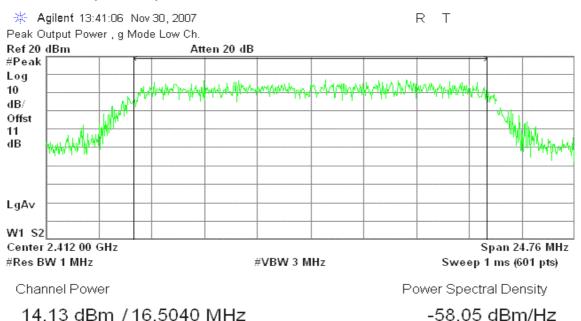
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Peak Power (CH High)



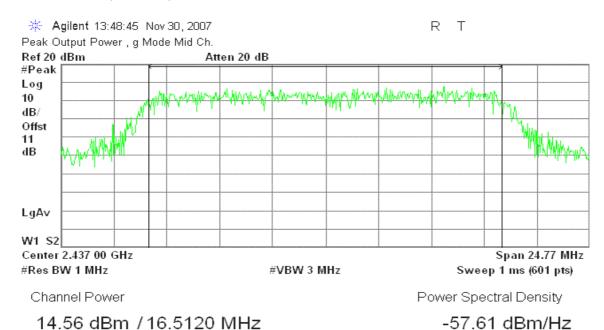
IEEE 802.11g

Peak Power (CH Low)

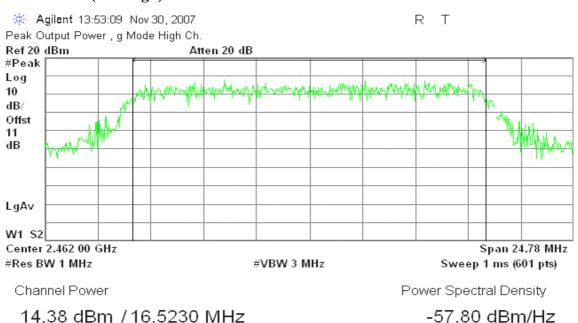


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Peak Power (CH Mid)



Peak Power (CH High)



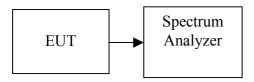
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7.3 AVERAGE POWER

LIMIT

None; for reporting purposes only.

Test Configuration



TEST PROCEDURE

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

TEST RESULTS

No non-compliance noted.

Test Data

Test mode: IEEE 802.11b mode

Channel	Frequency (MHz)	Output Power (dBm)	
Low	2412	14.91	
Mid	2437	14.45	
High	2462	14.07	

Test mode: IEEE 802.11g mode

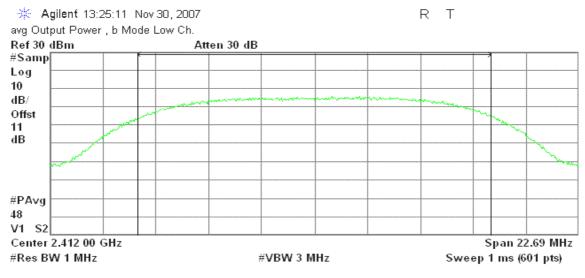
Channel	Frequency (MHz)	Output Power (dBm)	
Low	2412	10.84	
Mid	2437	11.24	
High	2462	10.08	

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Test Plot

IEEE 802.11b

CH Low



Channel Power

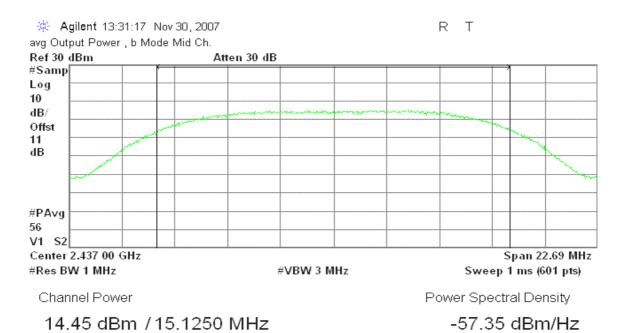
Power Spectral Density

14.91 dBm / 15.1260 MHz

-56.89 dBm/Hz

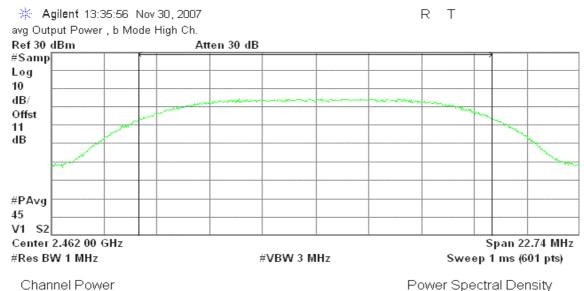
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CH Mid



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CH High



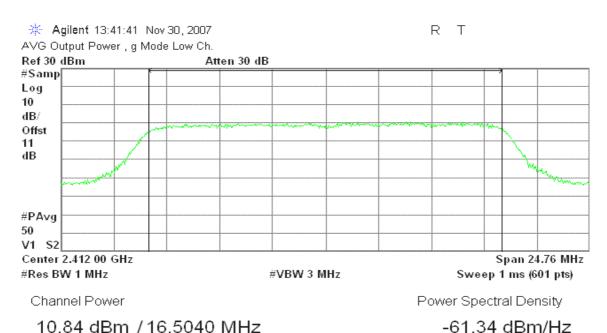
14.07 dBm / 15.1590 MHz

-57.74 dBm/Hz

Date of Issue: April 25, 2008

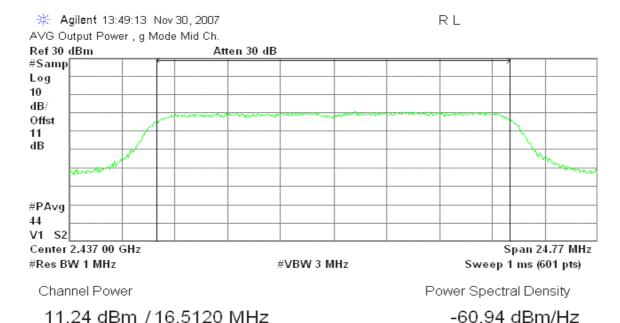
IEEE 802.11g

CH Low

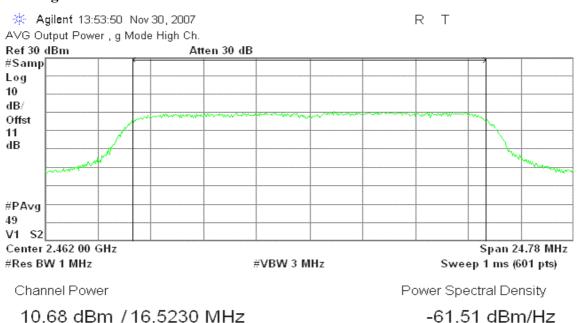


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CH Mid



CH High



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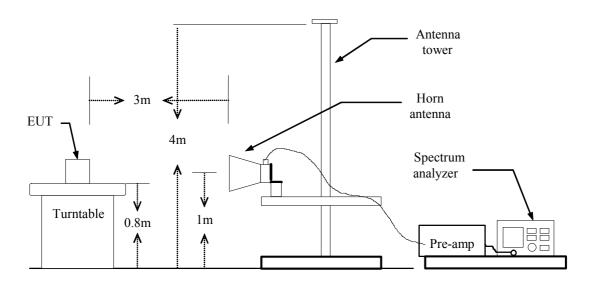
7.4 BAND EDGES MEASUREMENT

LIMIT

According to §15.247(d), 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 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in 15.209(a) (see Section 15.205(c)).

Date of Issue: April 25, 2008

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.

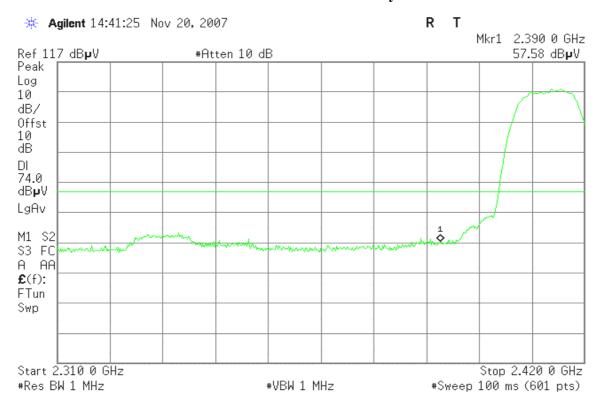
TEST RESULTS

Refer to attach spectrum analyzer data chart.

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Band Edges (IEEE 802.11b / CH Low)

Detector mode: Peak Polarity: Vertical

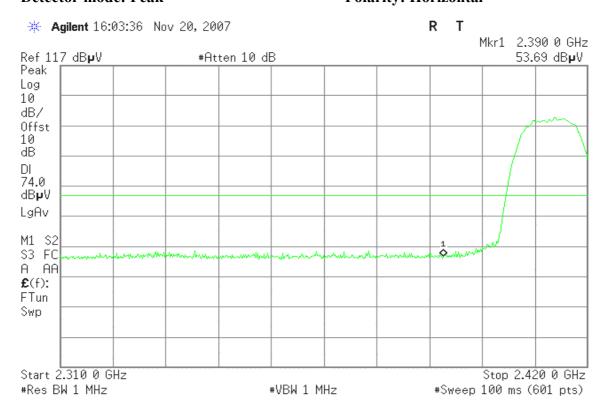


Detector mode: Average Polarity: Vertical



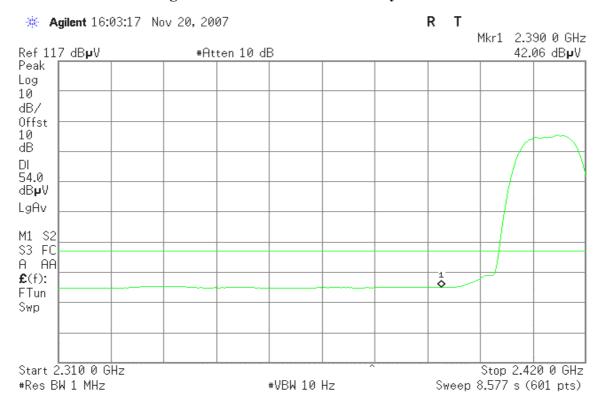
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Detector mode: Peak Polarity: Horizontal



Polarity: Horizontal

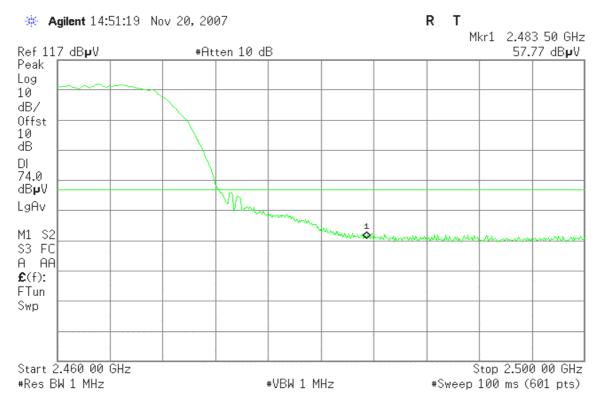
Detector mode: Average



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Band Edges (IEEE 802.11b / CH High)

Detector mode: Peak Polarity: Vertical

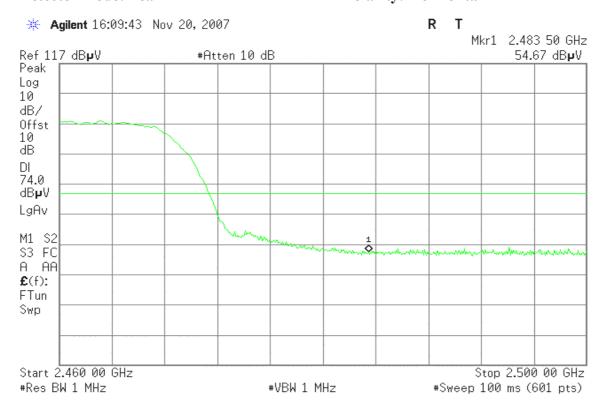


Detector mode: Average Polarity: Vertical



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Detector mode: Peak Polarity: Horizontal



Polarity: Horizontal

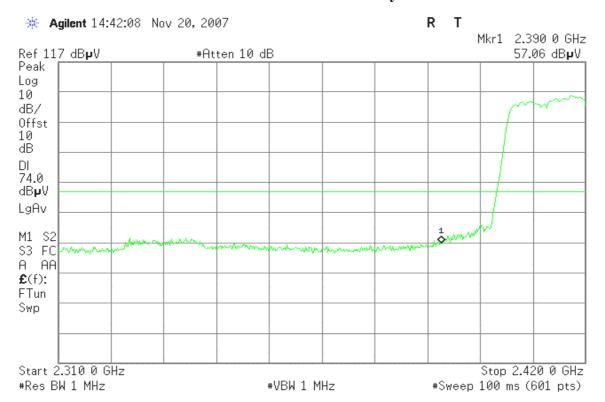
Detector mode: Average

R * Agilent 16:10:01 Nov 20, 2007 Mkr1 2.483 50 GHz Ref 117 dBpV 42.67 dB**µ**V #Atten 10 dB Peak Log 10 dB/ Offst 10 dΒ DΙ 54.0 dB₽V LgAv M1 S2 S3 FC A AA £(f): FTun Swp Start 2.460 00 GHz Stop 2.500 00 GHz #Res BW 1 MHz #VBW 10 Hz Sweep 3.119 s (601 pts)

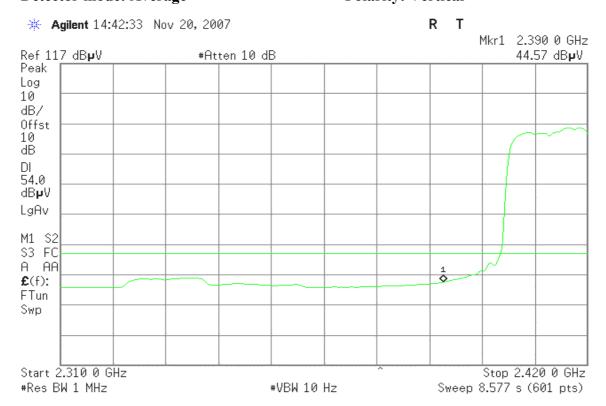
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Band Edges (IEEE 802.11g / CH Low)

Detector mode: Peak Polarity: Vertical

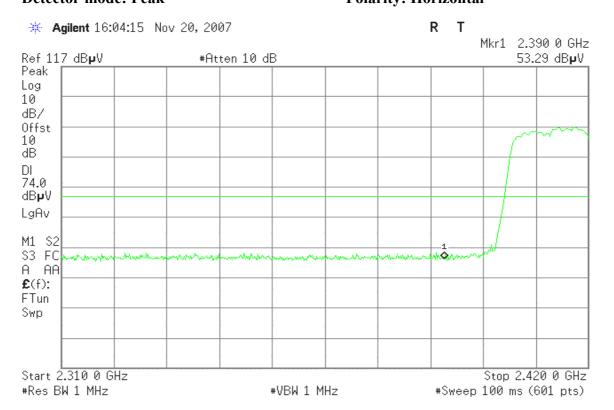


Detector mode: Average Polarity: Vertical



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Detector mode: Peak Polarity: Horizontal



Polarity: Horizontal

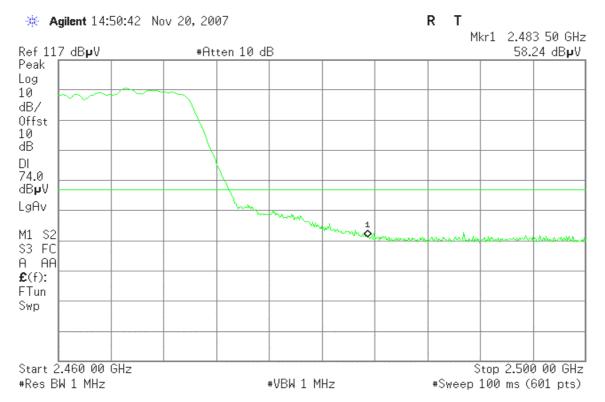
Detector mode: Average

R * Agilent 16:04:33 Nov 20, 2007 Mkr1 2.390 0 GHz Ref 117 dBpV 41.96 dB**µ**V #Atten 10 dB Peak Log 10 dB/ Offst 10 dΒ DΙ 54.0 dB₽V LgAv M1 S2 S3 FC A AA £(f): FTun Swp Start 2.310 0 GHz Stop 2.420 0 GHz #Res BW 1 MHz #VBW 10 Hz Sweep 8.577 s (601 pts)

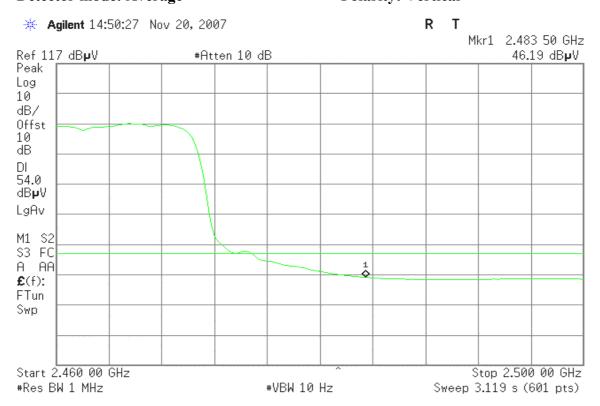
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Band Edges (IEEE 802.11g / CH High)

Detector mode: Peak Polarity: Vertical

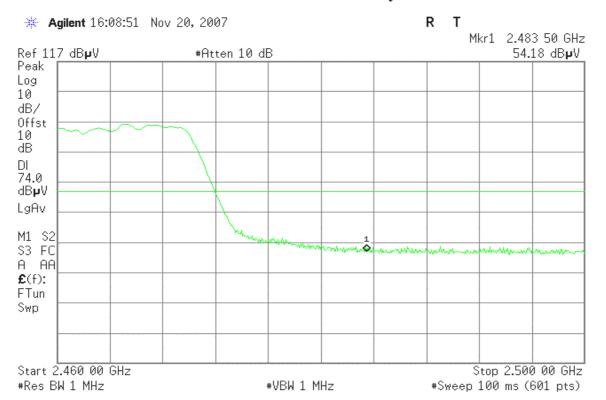


Detector mode: Average Polarity: Vertical



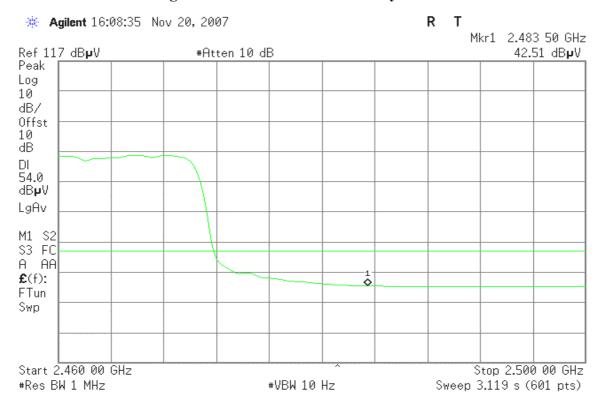
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Detector mode: Peak Polarity: Horizontal



Polarity: Horizontal

Detector mode: Average



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7.5 PEAK POWER SPECTRAL DENSITY

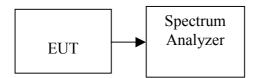
LIMIT

1. According to §15.247(e), for digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

Date of Issue: April 25, 2008

2. According to §15.247(f), the digital modulation operation of the hybrid system, with the frequency hopping turned off, shall comply with the power density requirements of paragraph (d) of this section.

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 = 3 kHz, VBW = 10 kHz, Span = 300 kHz, Sweep = 100 s
- 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 (MHz)	PPSD (dBm)	Limit (dBm)	Result
Low	2412	-9.81		PASS
Mid	2437	-10.16	8.00	PASS
High	2462	-10.51		PASS

Test mode: IEEE 802.11g

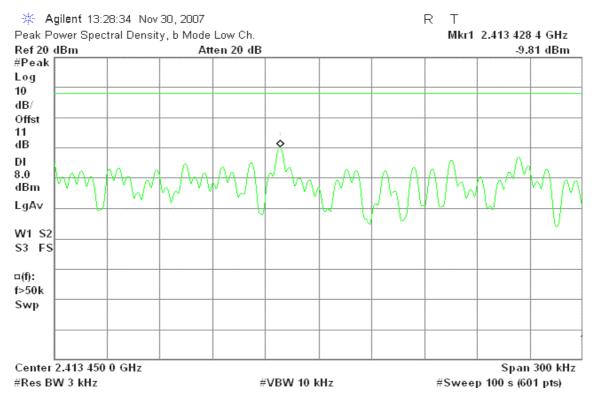
Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Result
Low	2412	-15.23		PASS
Mid	2437	-15.06	8.00	PASS
High	2462	-15.42		PASS

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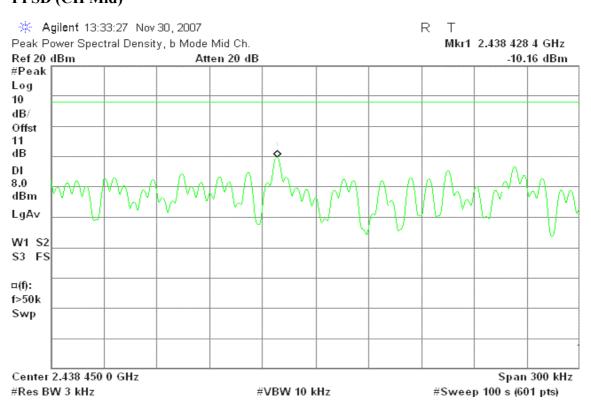
Test Plot

IEEE 802.11b

PPSD (CH Low)

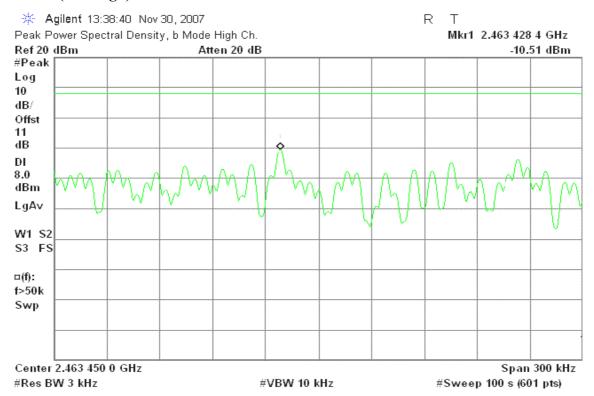


PPSD (CH Mid)



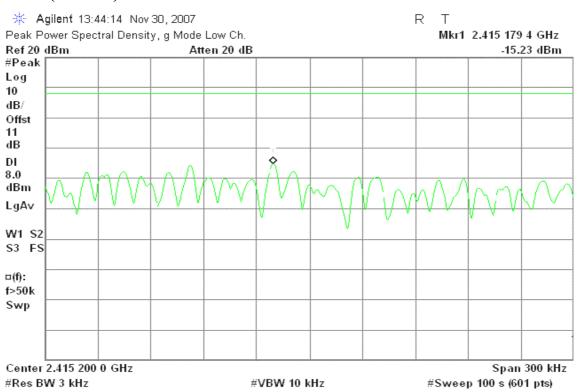
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PPSD (CH High)



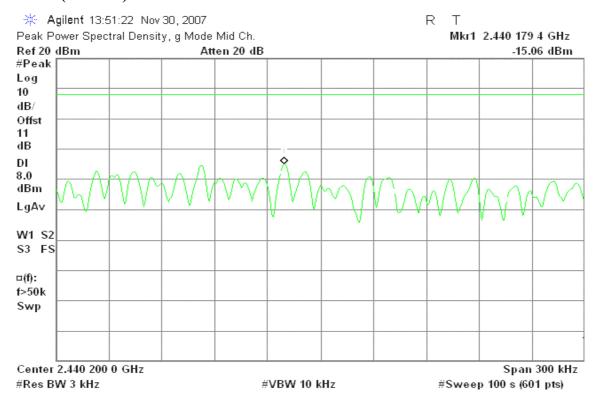
IEEE 802.11g

PPSD (CH Low)

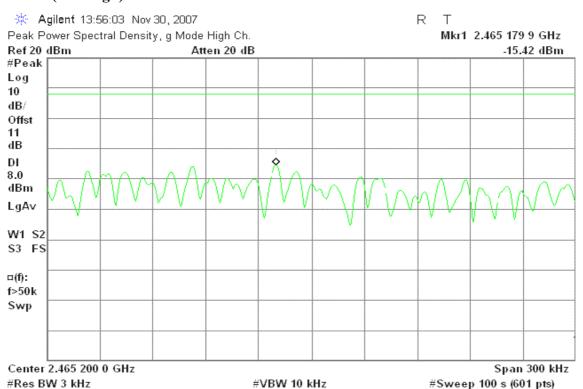


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PPSD (CH Mid)



PPSD (CH High)



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7.6 SPURIOUS EMISSIONS

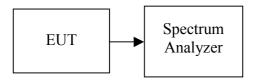
7.6.1 Conducted Measurement

LIMIT

According to §15.247(d), 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 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in 15.209(a) (see Section 15.205(c)).

Date of Issue: April 25, 2008

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

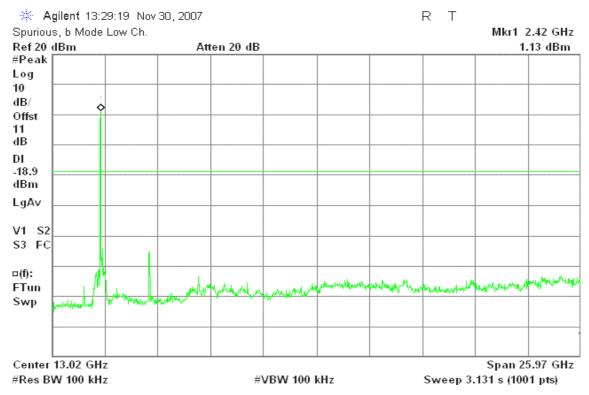
No non-compliance noted

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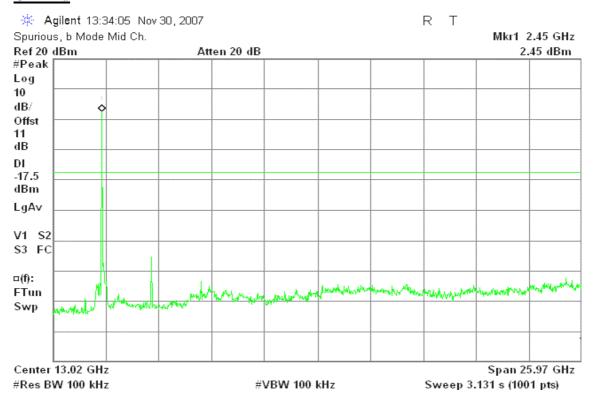
Test Plot

IEEE 802.11b

CH Low

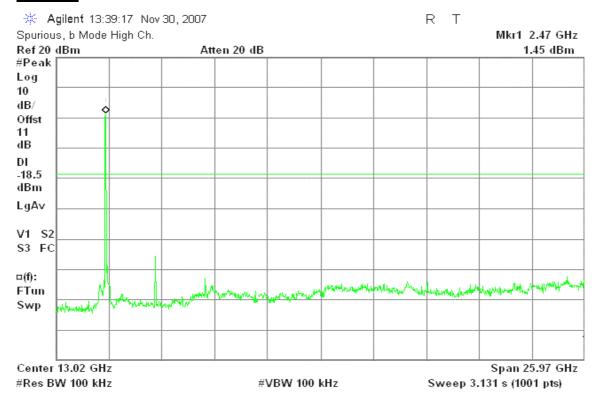


CH Mid



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CH High



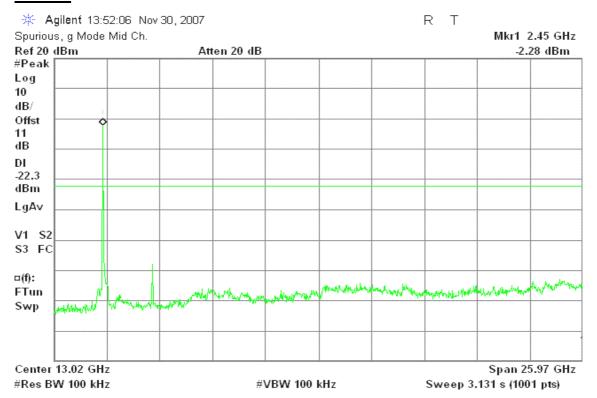
IEEE 802.11g

CH Low

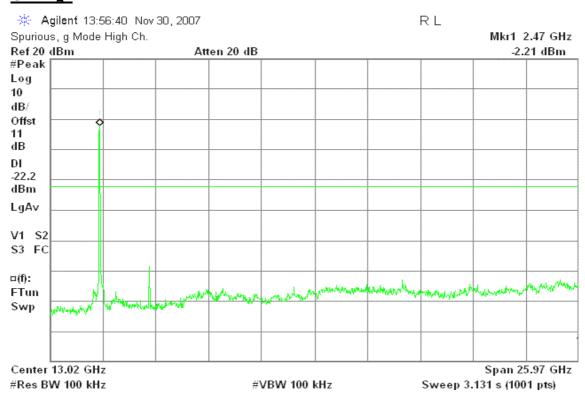


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CH Mid



CH High



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7.6.2 RADIATED EMISSIONS

LIMIT

1. According to §15.209(a), 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:

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

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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.

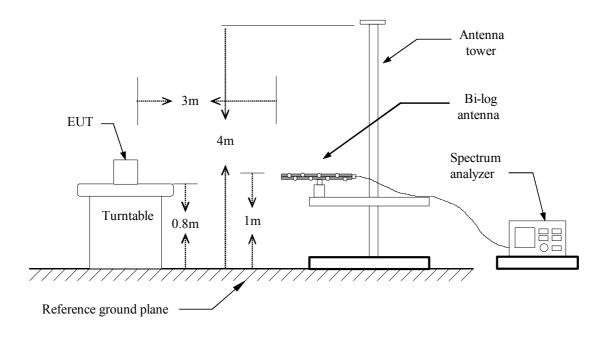
2. In the emission table above, the tighter limit applies at the band edges.

Frequency (MHz)	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

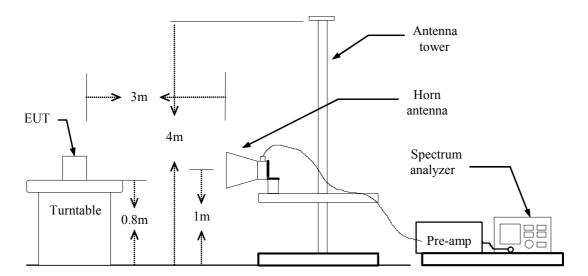
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Test Configuration

Below 1 GHz



Above 1 GHz



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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.

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- 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:

RBW=100kHz / VBW=300kHz / Sweep=AUTO

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

No non-compliance noted

Below 1GHz

Operation Mode: Normal Link **Test Date:** December 3, 2007

Date of Issue: April 25, 2008

Temperature: 25°C **Tested by:** Steven Young

Humidity: 55% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
55.87	V	58.69	-19.18	39.51	40.00	-0.82	Peak
133.47	V	55.58	-13.41	42.17	43.50	-1.33	Peak
532.78	V	52.25	-7.03	45.22	46.00	-0.78	Peak
666.97	V	50.60	-4.89	45.71	46.00	-0.29	Peak
699.30	V	49.67	-4.97	44.70	46.00	-1.30	Peak
933.72	V	46.91	-1.39	45.52	46.00	-0.48	Peak
299.98	Н	58.01	-12.43	45.58	46.00	-0.42	Peak
432.55	Н	48.30	-8.97	39.33	46.00	-6.67	Peak
532.78	Н	52.10	-7.03	45.07	46.00	-0.93	Peak
666.97	Н	49.60	-4.89	44.71	46.00	-1.29	Peak
699.30	Н	50.40	-4.97	45.43	46.00	-0.57	Peak
933.72	Н	46.54	-1.39	45.15	46.00	-0.85	Peak

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/quasi-peak detector mode.
- 3. Quasi-peak test would be performed if the peak result were greater than the quasi-peak limit or as required by the applicant.
- 4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, 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.
- 5. Margin(dB) = Remark result(dBuV/m) Quasi-peak limit(dBuV/m).

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Above 1 GHz

Operation Mode: TX / IEEE 802.11b / CH Low **Test Date:** November 20, 2007

Date of Issue: April 25, 2008

Temperature: 25°C **Tested by:** Steven Young

Humidity: 55 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Ant. Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
2496.67	V	67.23	57.55	-3.76	63.47	53.79	74.00	54.00	-0.21	AVG
N/A										
2486.67	Н	63.33	53.15	-3.79	59.54	49.36	74.00	54.00	-4.64	AVG
N/A										

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. 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.
- 5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, 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.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

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Operation Mode: TX / IEEE 802.11b / CH Mid **Test Date:** November 20, 2007

Date of Issue: April 25, 2008

Temperature: 25°C **Tested by:** Steven Young

Humidity: 55 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Ant. Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
2206.67	V	63.47	56.18	-4.49	58.98	51.69	74.00	54.00	-2.31	AVG
2523.33	V	66.09	56.73	-3.69	62.40	53.04	74.00	54.00	-0.96	AVG
N/A										
2520.00	Н	62.47	53.04	-3.70	58.77	49.34	74.00	54.00	-4.66	AVG
N/A										

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. 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.
- 5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, 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.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

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Operation Mode: TX / IEEE 802.11b / CH High **Test Date:** November 20, 2007

Date of Issue: April 25, 2008

Temperature: 25°C **Tested by:** Steven Young

Humidity: 55 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Ant. Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
1066.67	V	62.07		-10.68	51.39		74.00	54.00	-2.61	Peak
2540.00	V	66.21	56.74	-3.65	62.56	53.09	74.00	54.00	-0.91	AVG
N/A										
1333.33	Н	61.17		-10.25	50.92		74.00	54.00	-3.08	Peak
2543.33	Н	61.87	53.74	-3.64	58.23	50.10	74.00	54.00	-3.90	AVG
4925.00	Н	45.67		0.65	46.32		74.00	54.00	-7.68	Peak
N/A										

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. 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.
- 5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, 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.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

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Operation Mode: TX / IEEE 802.11g / CH Low **Test Date:** November 20, 2007

Date of Issue: April 25, 2008

Temperature: 25°C **Tested by:** Steven Young

Humidity: 55 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Ant. Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
2206.67	V	60.88	49.06	-4.49	56.39	44.57	74.00	54.00	-9.43	AVG
2490.00	V	67.12	54.99	-3.78	63.34	51.21	74.00	54.00	-2.79	AVG
N/A										
1333.33	Н	61.22		-10.25	50.98		74.00	54.00	-3.02	Peak
N/A										

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. 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.
- 5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, 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.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

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Operation Mode: TX / IEEE 802.11g / CH Mid **Test Date:** November 20, 2007

Date of Issue: April 25, 2008

Temperature: 25°C **Tested by:** Steven Young

Humidity: 55 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Ant. Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
1646.67	V	67.11	48.57	-8.52	58.59	40.05	74.00	54.00	-13.95	AVG
2520.00	V	65.27	53.14	-3.70	61.57	49.44	74.00	54.00	-4.56	AVG
N/A										
1066.67	Н	61.37		-10.68	50.68		74.00	54.00	-3.32	Peak
N/A										

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. 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.
- 5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, 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.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

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Operation Mode: TX / IEEE 802.11g / CH High **Test Date:** November 20, 2007

Date of Issue: April 25, 2008

Temperature: 25°C **Tested by:** Steven Young

Humidity: 55 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Ant. Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
2543.33	V	66.54	53.39	-3.64	62.90	49.75	74.00	54.00	-4.25	AVG
4933.33	V	44.60		0.66	45.26		74.00	54.00	-8.74	Peak
N/A										
1066.67	Н	61.84		-10.68	51.16		74.00	54.00	-2.84	Peak
N/A										

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. 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.
- 5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, 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.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

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7.7 POWERLINE CONDUCTED EMISSIONS

LIMIT

According to $\S15.207(a)$, except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Date of Issue: April 25, 2008

Frequency Range (MHz)	Limits (dBμV)					
(MILL)	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				

^{*} Decreases with the logarithm of the frequency.

Test Configuration

See test photographs attached in Appendix II 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 25, 2008

Test Data

Operation Mode: Normal Link Test Date: December 4, 2007

Temperature: 24°C **Tested by:** Ryan Chen

Humidity: 45% RH

Freq. (MHz)	QP Reading (dBuV)	AV Reading (dBuV)	Corr. factor (dB)	QP Result (dBuV)	AV Result (dBuV)	QP Limit (dBuV)	AV Limit (dBuV)	QP Margin (dB)	AV Margin (dB)	Note
0.3053	40.44	39.10	10.56	51.00	49.66	60.10	50.10	-9.10	-0.44	L1
0.3850	40.81	39.42	8.69	49.50	48.11	58.17	48.17	-8.67	-0.06	L1
0.6100	38.17	37.15	5.23	43.40	42.38	56.00	46.00	-12.60	-3.62	L1
0.7736	35.72	35.62	4.08	39.80	39.70	56.00	46.00	-16.20	-6.30	L1
1.0250	34.14	28.74	2.46	36.60	31.20	56.00	46.00	-19.40	-14.80	L1
11.6006	44.19	44.09	0.81	45.00	44.90	60.00	50.00	-15.00	-5.10	L1
0.3050	38.76	38.62	10.56	49.32	49.18	60.11	50.11	-10.79	-0.93	L2
0.3850	38.84	38.53	8.69	47.53	47.22	58.17	48.17	-10.64	-0.95	L2
0.6100	36.97	36.87	5.23	42.20	42.10	56.00	46.00	-13.80	-3.90	L2
0.7700	36.59	36.39	4.11	40.70	40.50	56.00	46.00	-15.30	-5.50	L2
1.1600	34.74	34.34	2.26	37.00	36.60	56.00	46.00	-19.00	-9.40	L2
11.5950	43.59	43.39	0.81	44.40	44.20	60.00	50.00	-15.60	-5.80	L2

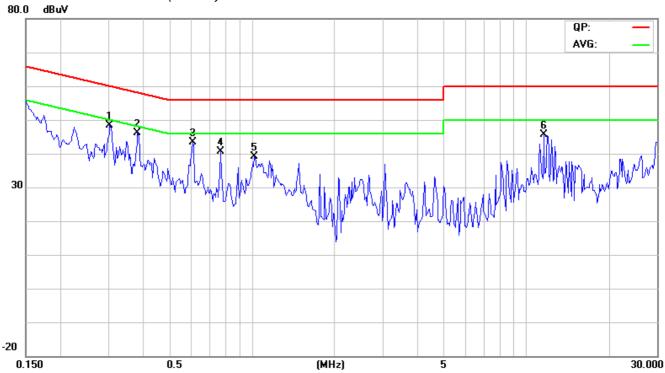
Remark:

- 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. The IF bandwidth of SPA between 0.15MHz and 30MHz was 10kHz; the IF bandwidth of Test Receiver between 0.15MHz and 30MHz was 9kHz;
- 4. 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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