FCC 47 CFR PART 15 SUBPART C

TEST REPORT

For

54M Wireless Access Point

Model: TL-WA501G

Trade Name: TP-LINK

Prepared for

TP-LINK TECHNOLOGIES CO., LTD. BUILDING 7, SECTION 2, HONGHUALING INDUSTRIAL PARK, XILI, NANSHAN DISTRICT, SHENZHEN, P.R.C.

Prepared by

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Report No: SZ070320B09-RP FCC ID: TE7WA50XG Date of Issue: April 04, 2007

1. TEST RESULT CERTIFICATION

Applicant: TP-LINK TECHNOLOGIES CO., LTD.

BUILDING 7, SECTION 2, HONGHUALING INDUSTRIAL PARK, XILI, NANSHAN DISTRICT, SHENZHEN, P.R.C.

Equipment Under Test: 54M Wireless Access Point

Trade Name: TP-LINK

Model: TL-WA501G

Date of Test: July 27-September 26, 2006 & March 20-April 02, 2007

APPLICABLE STANDARDS				
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 (Shenzhen) 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: Tested By: Henry Ding

Reviewed By:

COMPLIANCE CERTIFICATION

SERVICES (SHENZHEN) INC.

Eric Wong / Assistant manager COMPLIANCE CERTIFICATION SERVICES (SHENZHEN) INC.

2. EUT DESCRIPTION

Product	54M Wireless Access Point
Trade Name	TP-LINK
Model Number	TL-WA501G
Model Difference	N/A
Power Supply	Powered by the adapter
Frequency Range	802.11b mode: 2412 ~ 2462 MHz 802.11g mode: 2412 ~ 2462 MHz
Transmit Power	802.11b mode: 20.61 dBm 802.11g mode: 22.27 dBm
Modulation Technique	802.11b: DSSS (CCK; DQPSK; DBPSK) 802.11g: OFDM
Transmit Data Rate	802.11b: 11Mbps(CCK) with fall back rates of 5.5, 2, and 1Mbps 802.11g: 54Mbps with fall back rates of 48/36/24/18/12/9/6 Mbps (OFDM)
Number of Channels	11 Channels
Antenna Specification	Swivel antenna Gain: 4 dBi (Max)

Note: This submittal(s) (test report) comply with Section 15.207, 15.209 and 15.247 of the FCC Part 15, Subpart C Rules.

3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4: 2003 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.

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.

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.

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: 2003 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.

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:

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
2. 17725 – 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
2. 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.

(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.

DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.

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

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

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

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.

5. FACILITIES AND ACCREDITATIONS

FACILITIES

All measurement facilities used to collect the measurement data are located at

No. 5, Jinao industrial park, No.35 Jukeng Road, Dashuikeng Village, Guanlan Town, Baoan District, Shenzhen, China

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4: 2003 and CISPR Publication 22.

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."

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: 200577-0 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.

6. SETUP OF EQUIPMENT UNDER TEST

SETUP CONFIGURATION OF EUT

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

SUPPORT EQUIPMENT

No	Equipment	Model	Serial No.	FCC ID	Trade Name	Data Cable	Power Cord
1.	Notebook	992F2VG	N/A	DoC	IBM	N/A	Unshielded 1.8m
2.	AC/AC Adaptor	U090080A	N/A	DoC	ITE	N/A	Unshielded 1.8m
3.	AC/AC Adaptor	AA-0980	N/A	DoC	Outstanding	N/A	Unshielded 1.8m
4.	AC/AC Adaptor	A410908OT	N/A	DoC	LEADER	N/A	Unshielded 1.8m

Notes:

- 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.

7. FCC PART 15.247 REQUIREMENTS

6dB BANDWIDTH

LIMIT

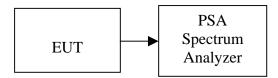
For the direct sequence systems, the minimum 6dB bandwidth shall be at least 500kHz.

MEASUREMENT EQUIPMENT USED

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
PSA Spectrum Analyzer	Agilent	E4446A	US44300399	02/05/2008

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 = 20MHz, Sweep = auto.
- 4. Mark the peak frequency and –6dB (upper and lower) frequency.
- 5. Repeat until all the rest channels are investigated.

TEST RESULTS

No non-compliance noted

Test Data

Test mode: IEEE 802.11b

Channel	1 0		Limit (kHz)	Margin (kHz)
Low	2412	11970		PASS
Mid	2437	11770	>500	PASS
High	2462	12100		PASS

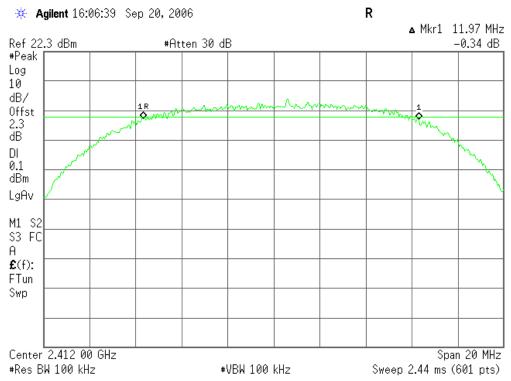
Test mode: IEEE 802.11g

Channel	hannel Frequency (MHz)		nel 1 º		Limit (kHz)	Margin (kHz)
Low	2412	16530		PASS		
Mid	2437	16530	>500	PASS		
High	2462	16570		PASS		

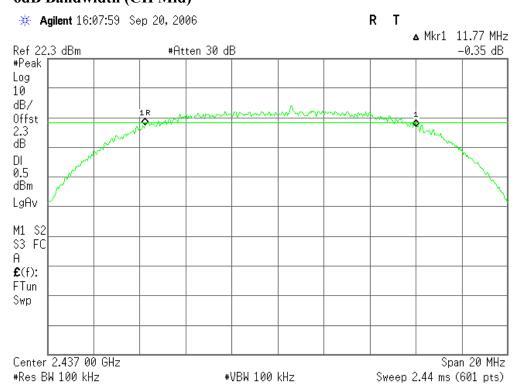
Test Plot

802.11b mode

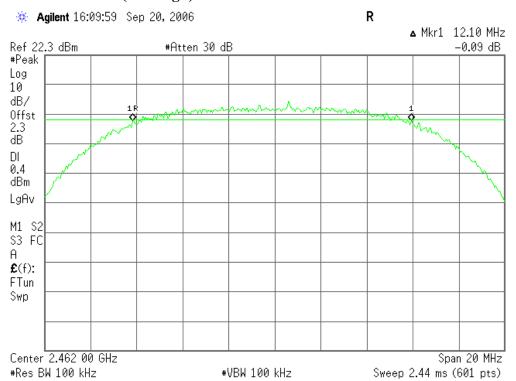
6dB Bandwidth (CH Low)



6dB Bandwidth (CH Mid)

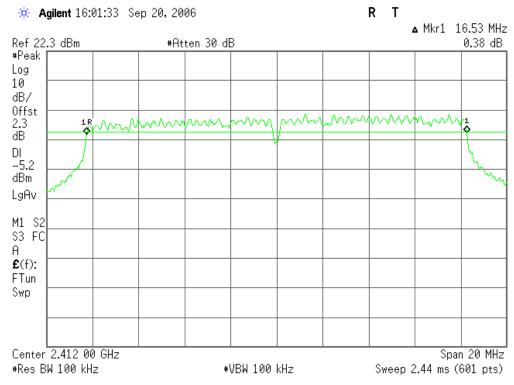


6dB Bandwidth (CH High)

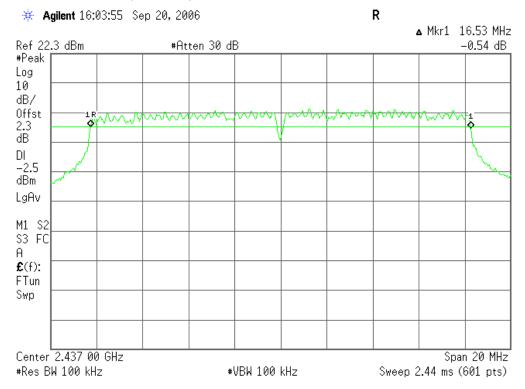


802.11g mode

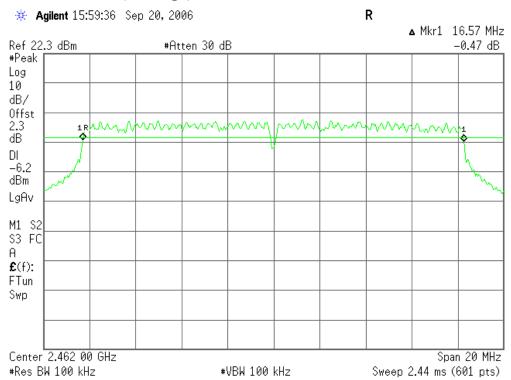
6dB Bandwidth (CH Low)



6dB Bandwidth (CH Mid)



6dB Bandwidth (CH High)



PEAK POWER

LIMIT

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

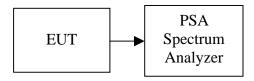
- 1. For systems using digital modulation in the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz: 1 watt.
- 2. Except as shown in paragraphs (b)(3) (i), (ii) and (iii) of this section, if transmitting antennas of directional gain greater than 6 dBi are used the peak output power from the intentional 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
PSA Spectrum Analyzer	Agilent	E4446A	US44300399	02/05/2008

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.

TEST RESULTS

No non-compliance noted

Test Data

Test mode: IEEE 802.11b

Channel	Frequency (MHz)	Output Power (dBm)	Factor (dB)	Output Power (dBm)	Output Power (W)	Linit (W)	Result
Low	2412	1684	1.00	17.84	0.05081		PASS
Md	2437	19.61	1.00	2061	0.11508	1	PASS
Hgh	2462	15.19	1.00	1619	0.04159		PASS

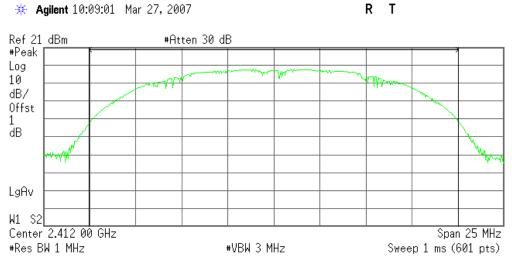
Test mode: IEEE 802.11g

Channel	Frequency (MHz)	Output Power (dBm)	Factor (dB)	Output Power (dBm)	Output Power (W)	Linit (W)	Result
Low	2412	1677	1.00	17.77	0.05984		PASS
Md	2437	21.27	1.00	22.27	0.16866	1	PASS
Hgh	2462	15.54	1.00	1654	0.04508		PASS

Test Plot

802.11b mode

Peak power (CH Low)



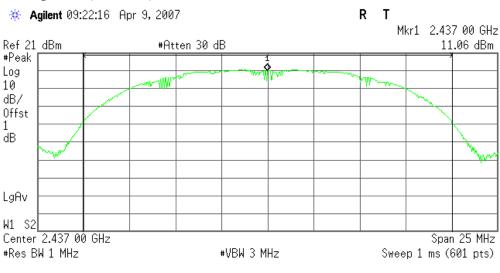
Channel Power

Power Spectral Density

17.84 dBm /20.0000 MHz

-55.17 dBm/Hz

Peak power (CH Mid)



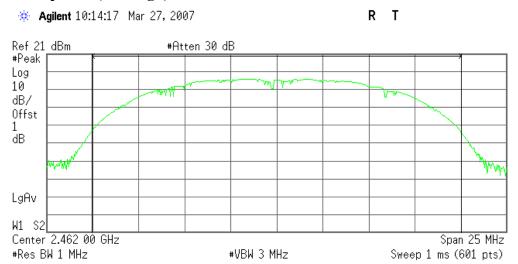
Channel Power

Power Spectral Density

20.61 dBm /20.0000 MHz

-52.40 dBm/Hz

Peak power (CH High)



Channel Power

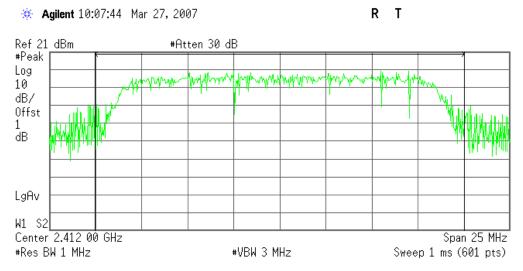
16.19 dBm /20.0000 MHz

Power Spectral Density

-56.82 dBm/Hz

802.11g mode

Peak power (CH Low)



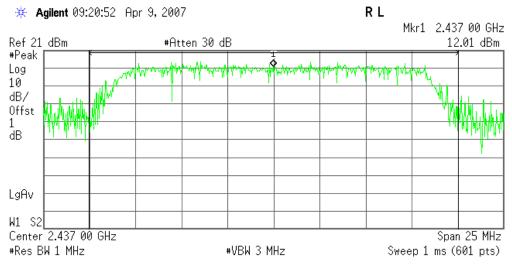
Channel Power

Power Spectral Density

17.77 dBm /20.0000 MHz

-55.24 dBm/Hz

Peak power (CH Mid)



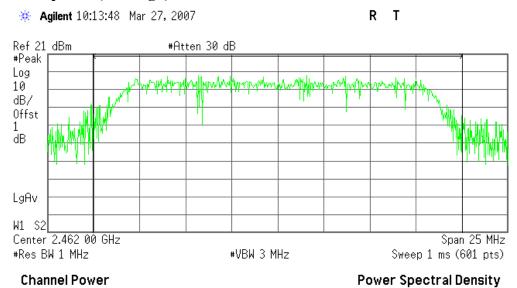
Channel Power

Power Spectral Density

22.27 dBm /20.0000 MHz

-50.74 dBm/Hz

Peak power (CH High)



16.54 dBm /20.0000 MHz

-56.47 dBm/Hz

BAND EDGES MEASUREMENT

LIMIT

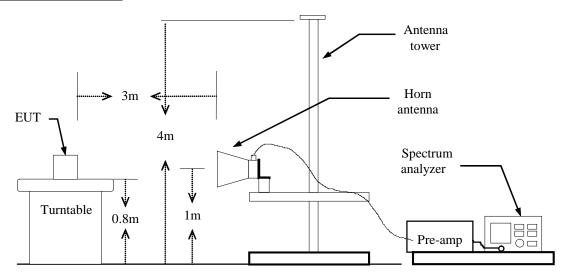
According to §15.247(c), in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains 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 in 15.209(a).

MEASUREMENT EQUIPMENT USED

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
PSA Spectrum Analyzer	Agilent	E4446A	US44300399	02/05/2008

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.

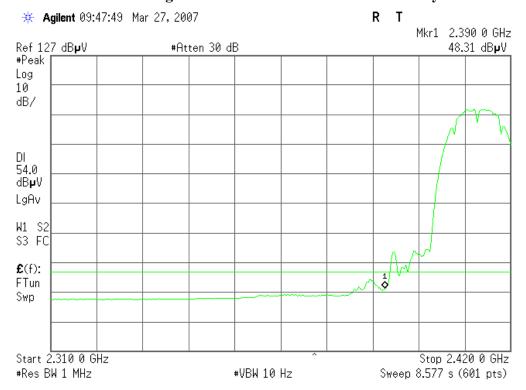
Band Edges (802.11b / CH Low)

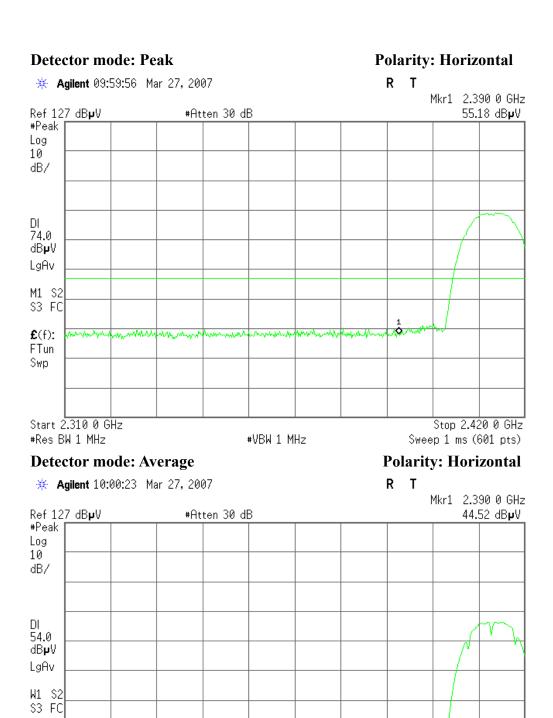
Detector mode: Peak Polarity: Vertical



Detector mode: Average

Polarity: Vertical





#VBW 10 Hz

£(f): FTun Swp

Start 2.310 0 GHz

#Res BW 1 MHz

Stop 2.420 0 GHz

Sweep 8.577 s (601 pts)

Band Edges (802.11b / CH High)

Detector mode: Peak Polarity: Vertical

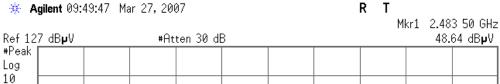


Detector mode: Average

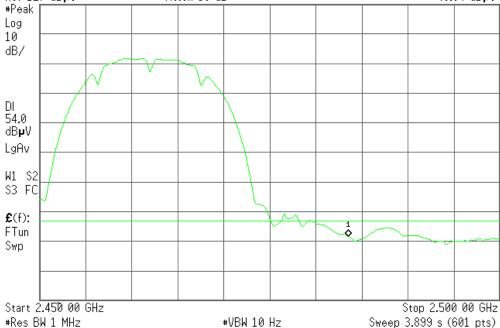
#Res BW 1 MHz

Polarity: Vertical

Sweep 1 ms (601 pts)



#VBW 1 MHz

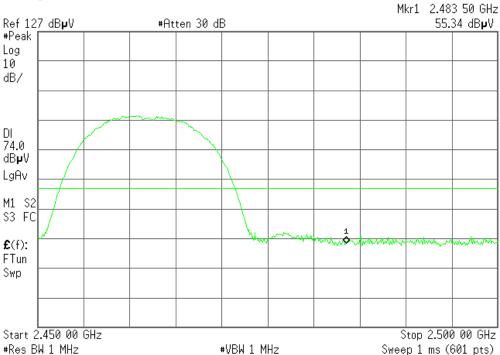


Detector mode: Peak

Polarity: Horizontal

* Agilent 09:57:45 Mar 27, 2007

R T

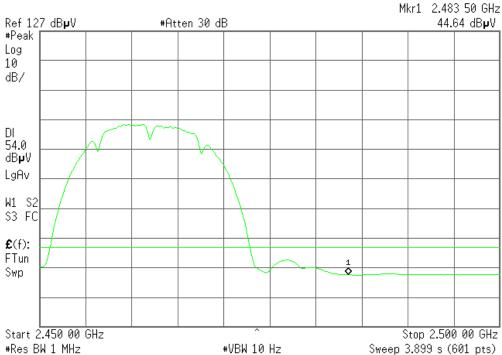


Detector mode: Average

Polarity: Horizontal

* Agilent 09:58:07 Mar 27, 2007

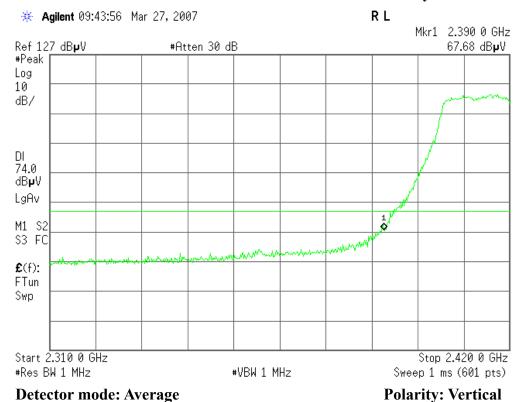
R T



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Band Edges (802.11g / CH Low)

Detector mode: Peak Polarity: Vertical



Detector mode: Average

Swp

Start 2.310 0 GHz

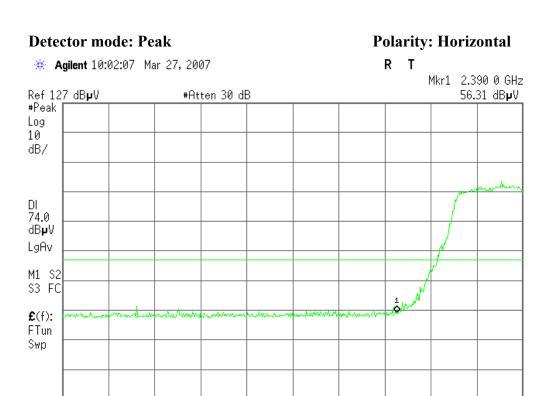
#Res BW 1 MHz

* Agilent 09:44:30 Mar 27, 2007 R Mkr1 2.390 0 GHz Ref 127 dB**µ**V #Atten 30 dB 52.84 dB**µ**V #Peak Log 10 dB/ DI 54.0 dB₽V LgAv W1 S2 S3 FC £(f): FTun

#VBW 10 Hz

Stop 2.420 0 GHz

Sweep 8.577 s (601 pts)



Detector mode: Average

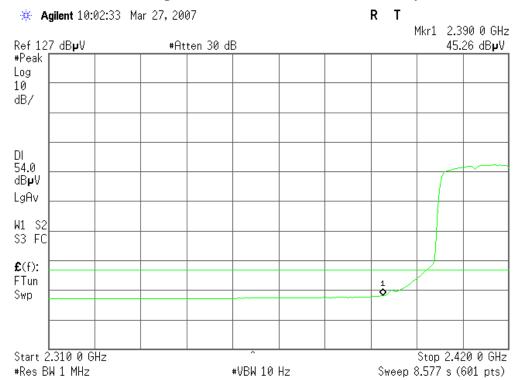
Start 2.310 0 GHz

#Res BW 1 MHz

Polarity: Horizontal

Stop 2.420 0 GHz

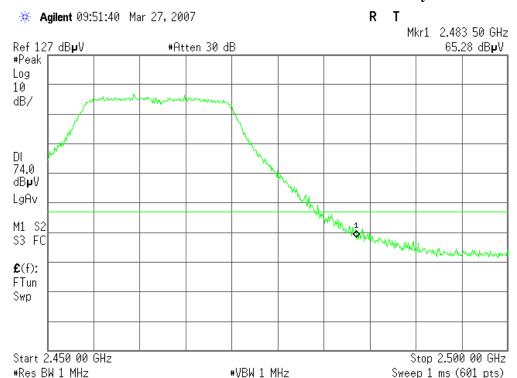
Sweep 1 ms (601 pts)



#VBW 1 MHz

Band Edges (802.11g / CH High)

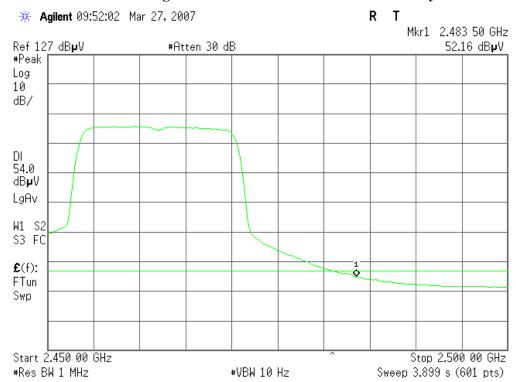
Detector mode: Peak Polarity: Vertical



Detector mode: Average

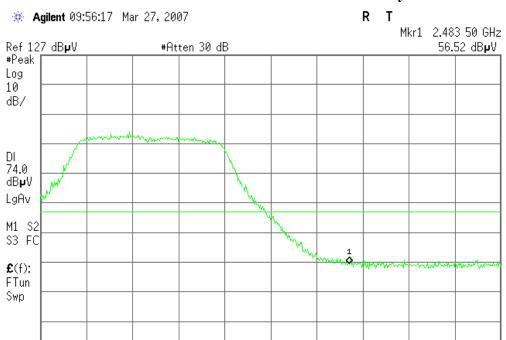
Polarity: Vertical

Date of Issue: April 04, 2007



Detector mode: Peak

Polarity: Horizontal



#VBW 1 MHz

Detector mode: Average

Start 2.450 00 GHz

#Res BW 1 MHz

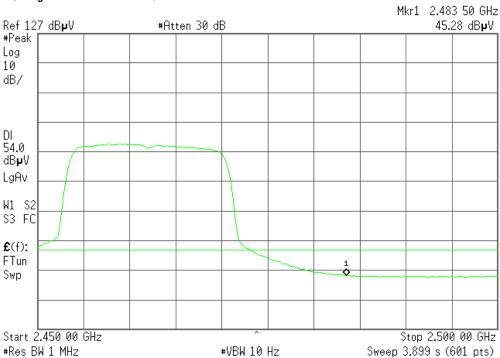
Polarity: Horizontal

Stop 2.500 00 GHz

Sweep 1 ms (601 pts)

* Agilent 09:56:40 Mar 27, 2007

RL



PEAK POWER SPECTRAL DENSITY

LIMIT

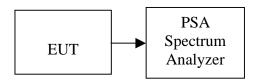
- 1. For direct sequence systems, the peak power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.
- 2. The direct sequence operating of the hybrid system, with the frequency hopping 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
PSA Spectrum Analyzer	Agilent	E4446A	US44300399	02/05/2008

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.

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	-6.13	1.80	-4.33		PASS
Mid	2437	-6.65	1.80	-4.85	8.00	PASS
High	2462	-5.29	1.80	-3.49		PASS

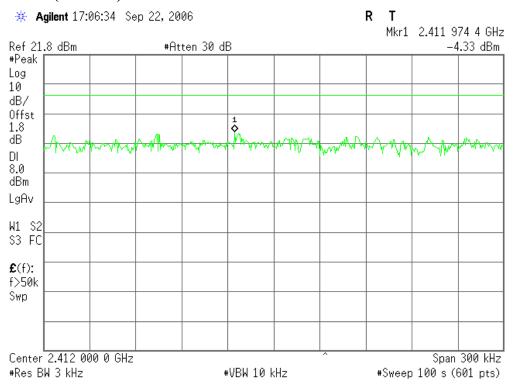
Test mode: IEEE 802.11g

Channel	Frequency	Reading (dBm)	Factor (dB)	PPSD (dBm)	Limit (dBm)	Result
Low	2412	-14.80	1.80	-13.00		PASS
Mid	2437	-7.25	1.80	-5.45	8.00	PASS
High	2462	-14.80	1.80	-13.00		PASS

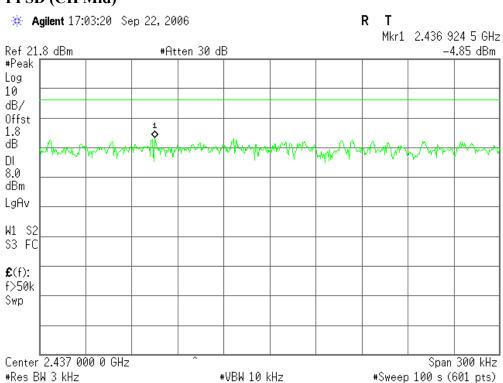
Test Plot

802.11b mode

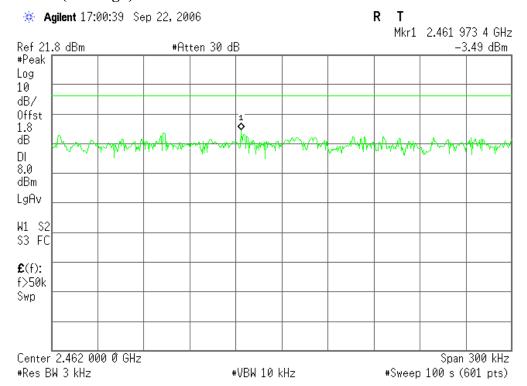
PPSD (CH Low)



PPSD (CH Mid)

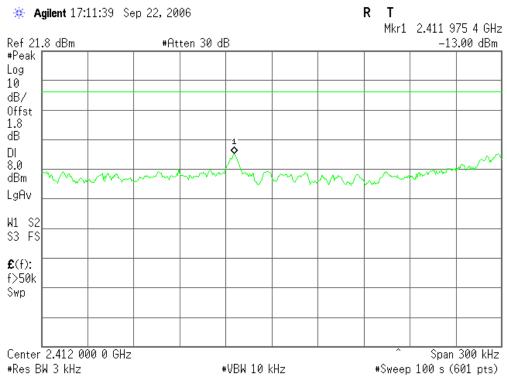


PPSD (CH High)

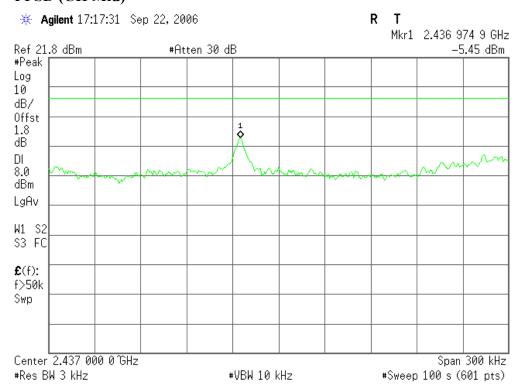


802.11g mode

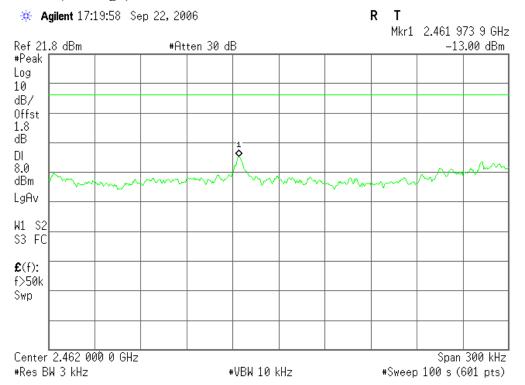
PPSD (CH Low)



PPSD (CH Mid)



PPSD (CH High)



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.

EUT Specification

DO I Specification	
EUT	54M Wireless Access Point
Frequency band (Operating)	 WLAN: 2.412GHz ~ 2.462GHz WLAN: 5.18GHz ~ 5.32GHz / 5.50GHz ~ 5.70GHz WLAN: 5.745GHz ~ 5825GHz Others
Device category	Portable (<20cm separation) Mobile (>20cm separation) Others
Exposure classification	Occupational/Controlled exposure $(S = 5mW/cm^2)$ Seneral Population/Uncontrolled exposure $(S=1mW/cm^2)$
Antenna diversity	 Single antenna Multiple antennas ☐ Tx diversity ☐ Rx diversity ☐ Tx/Rx diversity
Max. output power	23.12 dBm (205.12mW)
Antenna gain (Max)	4 dBi (Numeric gain: 2.51)
Evaluation applied	✓ MPE Evaluation✓ SAR Evaluation
<u>antenna gain</u> .) 2. For mobile or fixed location t	s 23.12 dBm (205.12mW) at 2462MHz (with 2.51 numeric ransmitters, no SAR consideration applied. The minimum is at least 20 cm, even if the calculations indicate that the MPE

TEST RESULTS

No non-compliance noted

Calculation

Given

$$E = \sqrt{\frac{30 \times P \times G}{d}} \quad \& \quad S = \frac{E^2}{3770}$$

Where E = Field Strength in Volts / meter

P = Power in Watts

G=Numeric antenna gain

d=*Distance in meters*

S=Power Density in milliwatts / square centimeter

Reference No.: SZ060727B01-RP Date of Issue: April 04, 2007

Combining equations and re-arranging the terms to express the distance as a function of the remaining variables yields:

$$d = \sqrt{\frac{30 \times P \times G}{3770 \times S}}$$

Changing to units of mW and cm, using:

$$P(mW) = P(W) / 1000$$
 and

$$d(cm) = 100 * d(m)$$

Yields

$$d = 100 \times \sqrt{\frac{30 \times (P/1000) \times G}{3770 \times S}} = 0.282 \times \sqrt{\frac{P \times G}{S}}$$

Where

d = distance in cm

P = Power in mW

G = Numeric antenna gain

 $S = Power Density in mW/cm^2$

Substituting the logarithmic form of power and gain using:

$$P(mW) = 10 \land (P(dBm) / 10)$$
 and

$$G(numeric) = 10 \land (G(dBi) / 10)$$

Yields

$$d = 0.282 \times \frac{10^{(P+G)/20}}{\sqrt{20}}$$

Equation 1

Where d = MPE safe distance in cm

P = Power in dBm

G = Antenna Gain in dBi

 $S = Power Density Limit in mW/cm^2$

Maximum Permissible Exposure

EUT output power = 205.12 mW

Antenna Gain = 2.51

 $S = 1.0 \text{ mW} / \text{cm}^2 \text{ from } 1.1310 \text{ Table } 1$

Substituting these parameters into the above Equation 1:

→ MPE Safe Distance =11.35 cm

(For mobile or fixed location transmitters, the minimum separation distance is 20 cm, even if calculations indicate that the MPE distance would be less.)

SPURIOUS EMISSIONS

7.5.1 Conducted Measurement

LIMIT

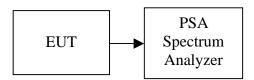
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the 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)).

MEASUREMENT EQUIPMENT USED

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due	
PSA Spectrum Analyzer	Agilent	E4446A	US44300399	02/05/2008	

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 100 KHz.

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

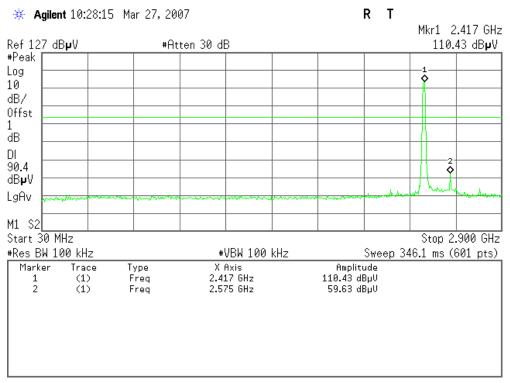
TEST RESULTS

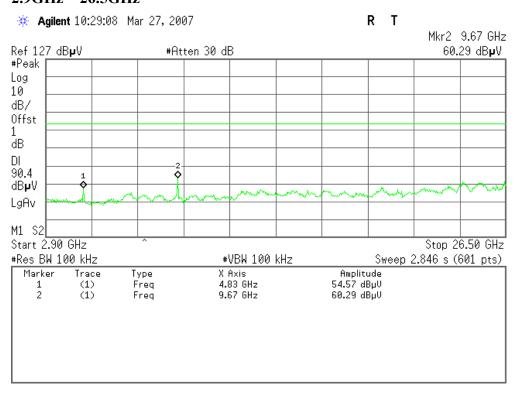
No non-compliance noted

Test Plot

IEEE 802.11b / CH Low

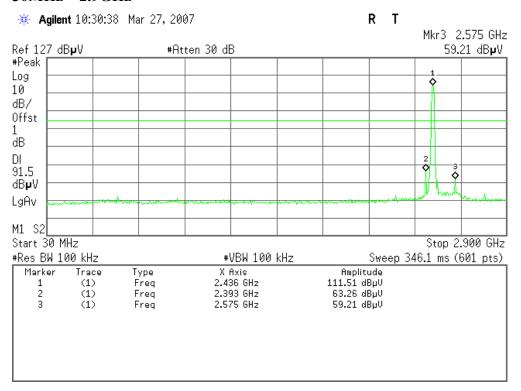
30MHz ~ 2.9GHz

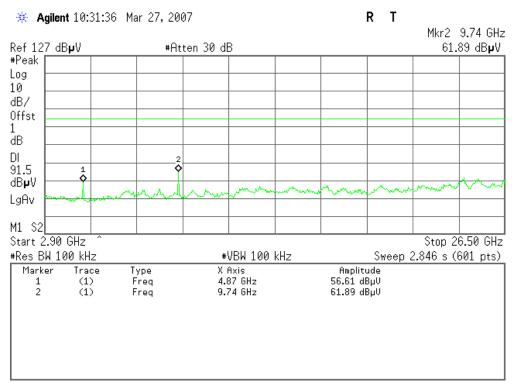




IEEE 802.11b / CH Mid

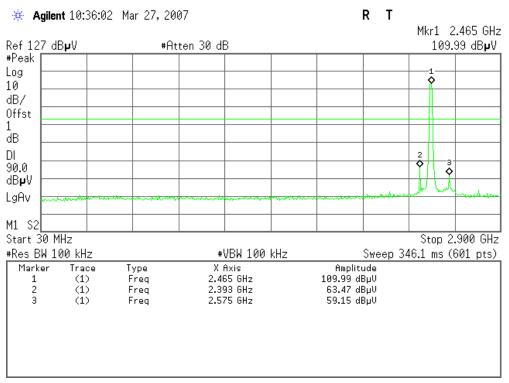
30MHz ~ 2.9GHz

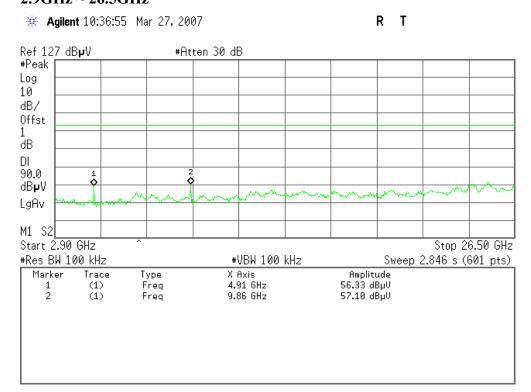




IEEE 802.11b / CH High

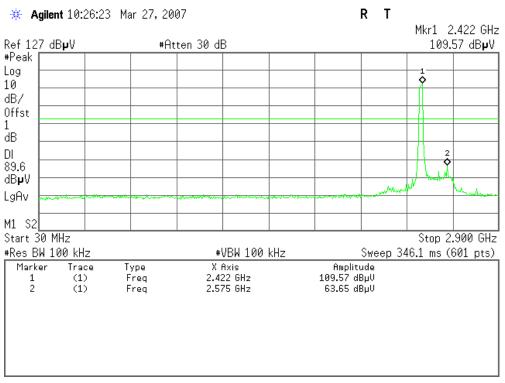
30MHz ~ 2.9GHz

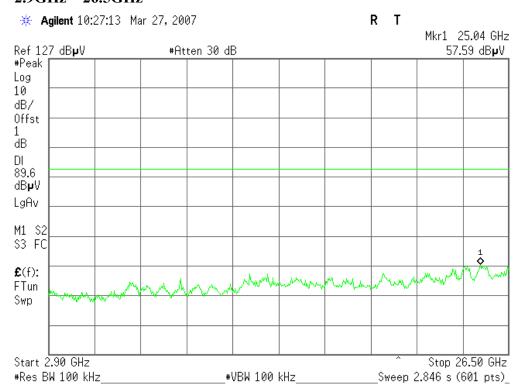




IEEE 802.11g / CH Low

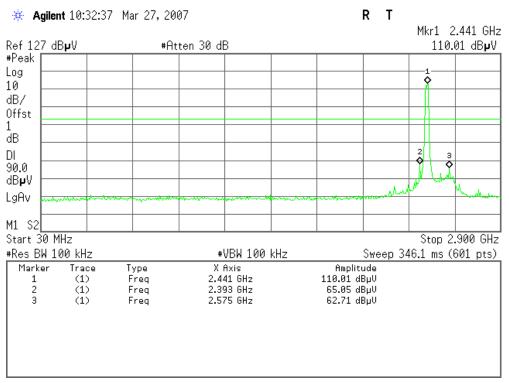
30MHz ~ 2.9GHz

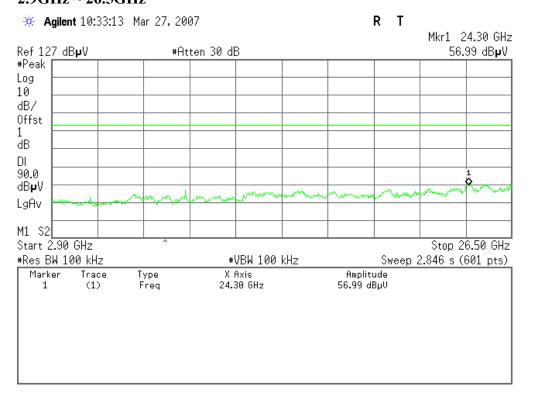




IEEE 802.11g / CH Mid

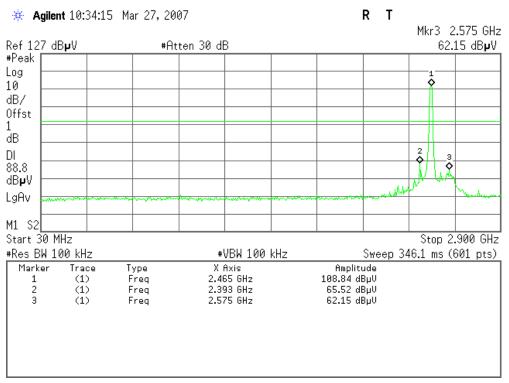
30MHz ~ 2.9GHz

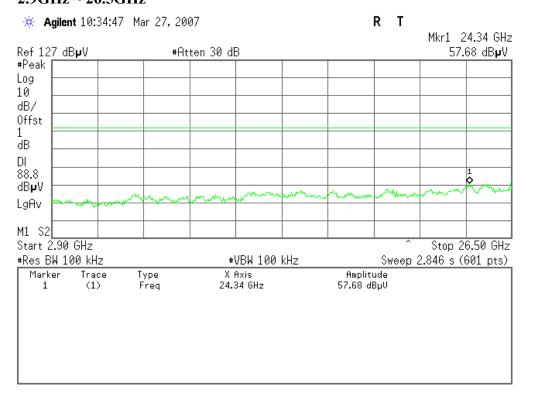




IEEE 802.11g / CH High

30MHz ~ 2.9GHz





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:

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

Note: 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		

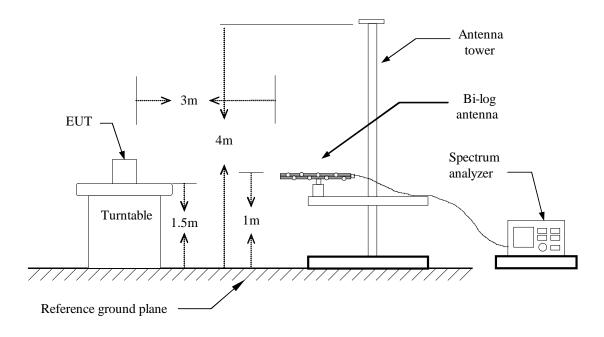
MEASUREMENT EQUIPMENT USED

		966 RF CHAM	IBER 2	
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
PSA Spectrum Analyzer	Agilent	E4446A	US44300399	02/05/2008
EMI Test Receiver	R&S	ESCI	1166.5950 03	01/13/2008
Pre-Amplifier	MITEQ	N/A	AFS42-00102650-42-10P-42	02/14/2008
Bilog Antenna	SCHWAZBECK	CBL6143	5082	06/09/2007
Turn Table	EMCO	2081-1.21	N/A	N.C.R
Antenna Tower	CT	N/A	N/A	N.C.R
Controller	СТ	N/A	N/A	N.C.R
RF Comm. Test set	НР	8920B	US36142090	N.C.R
Site NSA	C&C	N/A	N/A	06/09/2007
Horn Antenna	TRC	N/A	N/A	03/04/2008

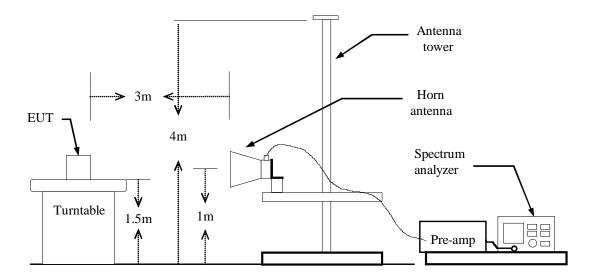
Remark: Each piece of equipment is scheduled for calibration once a year.

Test Configuration

Below 1 GHz



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

TEST RESULTS

Below 1 GHz

Operation Mode: Normal link Test Date: September 25, 2006

Temperature: 20°C **Tested by:** Henry

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)
133.270	V	Peak	12.19	13.85	26.04	43.50	-17.46
182.000	V	Peak	11.76	12.25	24.01	43.50	-19.49
368.250	V	Peak	13.68	18.87	32.55	46.00	-13.45
461.000	V	Peak	9.59	21.21	30.80	46.00	-15.20
552.000	V	Peak	10.41	24.04	34.45	46.00	-11.55
664.750	V	Peak	6.77	25.19	31.96	46.00	-14.04
133.275	Н	Peak	13.64	13.85	27.49	43.50	-16.01
184.032	Н	Peak	13.52	12.34	25.86	43.50	-17.64
250.050	Н	Peak	10.55	14.79	25.34	46.00	-20.66
275.700	Н	Peak	17.95	15.59	33.54	46.00	-12.46
398.000	Н	Peak	12.94	20.23	33.17	46.00	-12.83
674.500	Н	Peak	8.19	25.28	33.47	46.00	-12.53

- 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. 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.

Above 1 GHz

Operation Mode: TX / IEEE 802.11b / CH Low **Test Date:** September 25, 2006

Temperature: 23°C **Tested by:** Henry

Humidity: 56 % RH **Polarity:** Ver. / Hor.

Freq.	Ant. Pol	Peak	AV	Ant. / CL	Actu	al Fs	Peak	AV	Margin	
(MHz)	H/V	Reading (dBuV)	Reading (dBuV)	CF (dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)	(AD)	Remark
1480.00	V	56.74		-9.53	47.21		74.00	54.00	-6.79	Peak
1843.33	V	56.61		-8.07	48.54		74.00	54.00	-5.46	Peak
1956.67	V	57.12		-7.63	49.49		74.00	54.00	-4.51	Peak
4825.00	V	49.00		0.68	49.68		74.00	54.00	-4.32	Peak
N/A										
1013.33	Н	55.12		-12.10	43.02		74.00	54.00	-10.98	Peak
1796.67	Н	50.67		-8.26	42.41		74.00	54.00	-11.59	Peak
2250.00	Н	50.84		-6.47	44.37		74.00	54.00	-9.63	Peak
4808.33	Н	46.59		0.65	47.24		74.00	54.00	-6.76	Peak
N/A										

- 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 26GHz, RBW = 1MHz, VBW = 1MHz, Sweep time = 200 ms.
 - b. AV Setting 1GH z- 26GHz, RBW = 1MHz, VBW = 10Hz, Sweep time = 200 ms.

Operation Mode: TX / IEEE 802.11b / CH Mid Test Date: September 25, 2006

Temperature: 20°C **Tested by:** Henry

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

Емод	Ant Dol	Peak	AV	Ant. / CL	Actu	al Fs	Peak	AV	Morgin	
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
1413.33	V	56.97		-9.90	47.07		74.00	54.00	-6.93	Peak
1890.00	V	56.70		-7.89	48.81		74.00	54.00	-5.19	Peak
2280.00	V	57.55		-6.35	51.20		74.00	54.00	-2.80	Peak
4875.00	V	48.13		0.77	48.90		74.00	54.00	-5.10	Peak
N/A										
1653.33	Н	57.05		-8.82	48.23		74.00	54.00	-5.77	Peak
1863.33	Н	56.74		-8.00	48.74		74.00	54.00	-5.26	Peak
2286.67	Н	57.89		-6.32	51.57		74.00	54.00	-2.43	Peak
48.67	Н	46.53		0.75	47.28		74.00	54.00	-6.72	Peak
N/A										

- 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 26GHz, RBW = 1MHz, VBW = 1MHz, Sweep time = 200 ms.
 - b. AV Setting 1GH z- 26GHz, RBW = 1MHz, VBW = 10Hz, Sweep time = 200 ms.

Operation Mode: TX / IEEE 802.11b / CH High Test Date: September 25, 2006

Temperature: 20°C **Tested by:** Henry

Humidity: 70 % 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)	(dR)	Remark
1376.67	V	56.66		-10.10	46.56		74.00	54.00	-7.44	Peak
1930.00	V	57.06		-7.73	49.33		74.00	54.00	-4.67	Peak
2280.00	V	57.72		-6.35	51.37		74.00	54.00	-2.63	Peak
4925.00	V	46.71		0.85	47.56		74.00	54.00	-6.44	Peak
N/A										
1646.67	Н	57.25		-8.85	48.40		74.00	54.00	-5.60	Peak
1783.33	Н	57.59		-8.31	49.28		74.00	54.00	-4.72	Peak
2240.00	Н	57.11		-6.51	50.60		74.00	54.00	-3.40	Peak
4875.00	Н	46.46		0.77	47.23		74.00	54.00	-6.77	Peak
N/A										

- 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 26GHz, RBW = 1MHz, VBW = 1MHz, Sweep time = 200 ms.
 - b. AV Setting 1GH z- 26GHz, RBW = 1MHz, VBW = 10Hz, Sweep time = 200 ms.

Operation Mode: TX / IEEE 802.11g / CH Low **Test Date:** September 25, 2006

Date of Issue: April 04, 2007

 $20^{\circ}C$ **Tested by: Temperature:** Henry

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

Freq.	Ant. Pol	Peak	AV	Ant. / CL	Actu	al Fs	Peak	AV	Margin	
(MHz)	H/V	Reading (dBuV)	Reading (dBuV)	CF (dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)	(dR)	Remark
1656.67	V	56.95		-8.81	48.14		74.00	54.00	-5.86	Peak
1806.67	V	56.95		-8.22	48.73		74.00	54.00	-5.27	Peak
2130.00	V	57.61		-6.95	50.66		74.00	54.00	-3.34	Peak
4908.33	V	47.15		0.82	47.97		74.00	54.00	-6.03	Peak
N/A										
1506.67	Н	57.07		-9.39	47.68		74.00	54.00	-6.32	Peak
1926.67	Н	57.25		-7.75	49.50		74.00	54.00	-4.50	Peak
2163.33	Н	57.52		-6.81	50.71		74.00	54.00	-3.29	Peak
4858.33	Н	46.60		0.74	47.34		74.00	54.00	-6.66	Peak
N/A										

- 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 26GHz, RBW = 1MHz, VBW = 1MHz, Sweep time = 200 ms.
 - b. AV Setting 1GH z- 26GHz, RBW = 1MHz, VBW = 10Hz, Sweep time = 200 ms.

Operation Mode: TX / IEEE 802.11g / CH Mid Test Date: September 25, 2006

Temperature: 20°C **Tested by:** Henry

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

Freq.	Ant. Pol	Peak	AV	Ant. / CL	Actu	al Fs	Peak	AV	Margin	
(MHz)	H/V	Reading (dBuV)	Reading (dBuV)	CF (dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)	(dR)	Remark
1450.00	V	56.97		-9.70	47.27		74.00	54.00	-6.73	Peak
1610.00	V	57.04		-8.99	48.05		74.00	54.00	-5.95	Peak
2030.00	V	57.34		-7.34	50.00		74.00	54.00	-4.00	Peak
4875.00	V	47.42		0.77	48.19		74.00	54.00	-5.81	Peak
N/A										
1600.00	Н	51.15		-9.03	42.12		74.00	54.00	-11.88	Peak
1846.67	Н	50.89		-8.06	42.83		74.00	54.00	-11.17	Peak
2033.33	Н	50.52		-7.33	43.19		74.00	54.00	-10.81	Peak
4950.00	Н	46.09		0.89	46.98		74.00	54.00	-7.02	Peak
N/A										

- 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 26GHz, RBW = 1MHz, VBW = 1MHz, Sweep time = 200 ms.
 - b. AV Setting 1GH z- 26GHz, RBW = 1MHz, VBW = 10Hz, Sweep time = 200 ms.

Operation Mode: TX / IEEE 802.11g / CH High Test Date: September 25, 2006

Temperature: 20°C **Tested by:** Henry

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

Freq.	Ant. Pol	Peak	AV	Ant. / CL	Actu	al Fs	Peak	AV	Margin	
(MHz)	H/V	Reading (dBuV)	Reading (dBuV)	CF (dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)	(dR)	Remark
1570.00	V	56.74		-9.15	47.59		74.00	54.00	-6.41	Peak
1666.67	V	57.24		-8.77	48.47		74.00	54.00	-5.53	Peak
1920.00	V	57.73		-7.77	49.96		74.00	54.00	-4.04	Peak
4958.33	V	45.93		0.91	46.84		74.00	54.00	-7.16	Peak
N/A										
	_									
1983.33	Н	51.36		-7.53	43.83		74.00	54.00	-10.17	Peak
2103.33	Н	50.94		-7.05	43.89		74.00	54.00	-10.11	Peak
2220.00	Н	50.66		-6.59	44.07		74.00	54.00	-9.93	Peak
4975.00	Н	45.84		0.94	46.78		74.00	54.00	-7.22	Peak
N/A										

- 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 26GHz, RBW = 1MHz, VBW = 1MHz, Sweep time = 200 ms.
 - b. AV Setting 1GH z- 26GHz, RBW = 1MHz, VBW = 10Hz, Sweep time = 200 ms.

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:

Frequency Range (MHz)	Limits (dBµV)				
Frequency Range (WIIIZ)	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 (LINE and NEUTRAL) and ground at the power terminals.

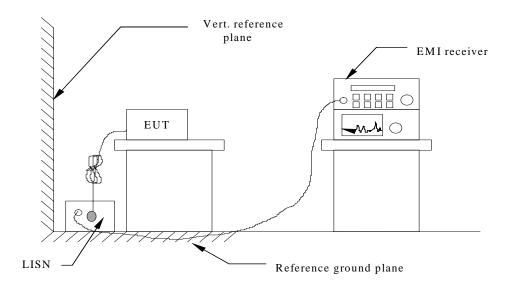
MEASUREMENT EQUIPMENT USED

Conducted Emission Test Site G								
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due				
ESCI EMI TEST RECEIV.ESCI	ROHDE&SCHWARZ	1166.5950 03	100088	02/05/2008				
LISN	EMCO	3825/2	1371	02/05/2008				
LISN	EMCO	3825/2	8901-1459	02/05/2008				

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

Date of Issue: April 04, 2007

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.

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.



Test Data

Test Mode: TX+RX	Location: Site G		
Model Name: TL-WA501G	Test Date: August 23, 2006		
Tested by: Henry	Test Results: Passed		

Date of Issue: April 04, 2007

(The chart below shows the highest readings taken from the final data)

Adaptor Model Name: U090080A

FREQ	PEAK	Q.P.	AVG	Q.P.	AVG	Q.P.	AVG	NOTE
MHz	RAW	RAW	RAW	Limit	Limit	Margin	Margin	
	dBuV	dBuV	dBuV	dBuV	dBuV	dB	dB	
0.227	45.87			63.78	53.78		-7.91	L1
0.357	42.72			60.07	50.07		-7.35	L1
0.787	39.53			56.00	46.00		-6.47	L1
3.266	46.10	41.83	31.81	56.00	46.00	-14.17	-14.19	L1
5.494	49.23	45.17	34.55	60.00	50.00	-14.83	-15.45	L1
16.533	50.50	45.34	31.26	60.00	50.00	-14.66	-18.74	L1
0.224	41.34			63.88	53.88		-12.54	L2
0.353	38.61			60.17	50.17		-11.56	L2
2.793	41.60			56.00	46.00		-4.40	L2
3.490	43.45			56.00	46.00		-2.55	L2
5.695	47.79			60.00	50.00		-2.21	L2
16.709	47.99			60.00	50.00		-2.01	L2

Adaptor Model Name: AA-0980

FREQ	PEAK	Q.P.	AVG	Q.P.	AVG	Q.P.	AVG	NOTE
MHz	RAW	RAW	RAW	Limit	Limit	Margin	Margin	
	dBuV	dBuV	dBuV	dBuV	dBuV	dB	dB	
0.187	25.16			64.94	54.94		-29.78	L1
0.268	21.63			62.61	52.61		-30.98	L1
9.751	24.33			60.00	50.00		-25.67	L1
11.723	24.05			60.00	50.00		-25.95	L1
13.695	25.33			60.00	50.00		-24.67	L1
15.683	25.49			60.00	50.00		-24.51	L1
0.187	40.06			64.94	54.94		-14.88	L2
0.235	34.41			63.56	53.56		-19.15	L2
0.268	35.54			62.61	52.61		-17.07	L2
0.902	23.90			56.00	46.00		-22.10	L2
13.695	28.24			60.00	50.00		-21.76	L2
17.879	22.87			60.00	50.00		-27.13	L2



FCC ID: TE7WA50XG

Adaptor Model Name: A410908OT

FREQ	PEAK	Q.P.	AVG	Q.P.	AVG	Q.P.	AVG	NOTE
MHz	RAW	RAW	RAW	Limit	Limit	Margin	Margin	
	dBuV	dBuV	dBuV	dBuV	dBuV	dB	dB	
0.320	28.14			61.13	51.13		-22.99	L1
0.524	31.92			56.00	46.00		-14.08	L1
0.628	33.84			56.00	46.00		-12.16	L1
9.671	26.25			60.00	50.00		-23.75	L1
15.362	26.57			60.00	50.00		-23.43	L1
17.494	24.06			60.00	50.00		-25.94	L1
0.316	33.39			61.23	51.23		-17.84	L2
0.528	42.91			56.00	46.00		-3.09	L2
0.631	44.59	42.19	40.12	56.00	46.00	-13.81	-5.88	L2
1.036	27.84			56.00	46.00		-18.16	L2
4.941	22.81			56.00	46.00		-23.19	L2

Remark:

- 1. The measuring frequencies range between 0.15 MHz and 30 MHz.
- 2. The emissions measured in the frequency range between 0.15 MHz and 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, and no re-check was made.
- 4. 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.
- 5. $L1 = Line \ One \ (Live \ Line) / L2 = Line \ Two \ (Neutral \ Line)$

Note:

= Emission frequency in KHz Freq.

 $Factor(dB) = cable\ loss + Insertion\ loss\ of\ LISN+Insertion\ loss\ of\ TRANSIENT\ LIMITER\ (The$ TRANSIENT LIMITER included 10 dB ATTENUATION)

Amptd dBuV = Uncorrected Analyzer/Receiver reading + cable loss + Insertion loss of LISN+ Insertion loss of TRANSIENT LIMITER,

if it > 0.5 dB

Limit dBuV = *Limit stated in standard*

= Reading in reference to limit Margin dB

Calculation Formula

Margin(dB) = Amptd(dBuV) - Limit(dBuV)

Common Mode Conducted Emission

Not applicable

Date of Issue: April 04, 2007

APPENDIX 1 PHOTOGRPHS OF TEST SETUP

LINE CONDUCTED EMISSION TEST





RADIATED EMISSION TEST

