Report No.: SZ080114B02-RP

FCC TEST REPORT

for

54Mbps Wireless PCI LAN Adapter MODEL: WL-150G-C

Test Report Number: SZ080114B02-RP

Issued for

Shenzhen Zowee Technology Co., Ltd.

Block 5, Science&Technology Industrial Park of Privately, Pingshan,
Xili, Nanshan District, Shenzhen, Guangdong, China

Issued by:

COMPLIANCE CERTIFICATION SERVICES (SHENZHEN) INC. NO. 5, JINAO INDUSTRIAL PARK, NO. 35 JUKENG ROAD, DASHUIKENG VILLAGE, GUANLAN TOWN, BAOAN DISTRICT, SHENZHEN, CHINA

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Issued Date: July 15, 2008



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Revision History

	Issue		Effect	
Rev.	Date	Revisions	Page	Revised By
00	July 15, 2008	Initial Issue	ALL	Clinton Kao



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1. TEST CERTIFICATION

Product: 54Mbps Wireless PCI LAN Adapter

Model: WL-150G-C

Brand: ZOWEE

Tested: May 12-July 15, 2008

Applicant: Shenzhen Zowee Technology Co., Ltd.

Block 5, Science&Technology Industrial Park of Privately,

Pingshan, Xili, Nanshan District, Shenzhen, Guangdong, China

Manufacturer: Shenzhen Zowee Technology Co., Ltd.

Block 5, Science&Technology Industrial Park of Privately, Pingshan, Xili, Nanshan District, Shenzhen, Guangdong, China

	APPLICABLE STANDARDS						
Standard	Test Type	Standard	Test Type				
15.207(a)	Power Line Conducted Emissions	15.247(d) 15.209(a)	Spurious EmissionsConducted MeasurementRadiated Emissions				
15.247(a)(2)	6dB Bandwidth Measurement	15.247(b)(3) 15.247(b)(4)	Peak Power Measurement				
15.247(d)	Band Edges Measurement	15.247(e)	Peak Power Spectral Density				

DEVIATION FROM APPLICABLE STANDARD	
None	

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.

Approved by:	Reviewed by:	
Wente Las	Vincent Jao	
Clinton Kao Manager	Vincent Yao Assistant manager	

Compliance Certification Service Inc. Compliance Certification Service Inc.

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TEST RESULT SUMMARY

	APPLICABLE STANDARDS					
Standard	Test Type	Result	Remark			
15.247(a)(2)	6dB Bandwidth Measurement	Pass	Meet the requirement of limit.			
15.247(b)(3) 15.247(b)(4)	Peak Power Measurement	Pass	Meet the requirement of limit.			
15.247(d)	Band Edges Measurement	Pass	Meet the requirement of limit.			
15.247(e)	Peak Power Spectral Density	Pass	Meet the requirement of limit.			
15.247(d) 15.209(a)	Spurious EmissionsConducted MeasurementRadiated Emissions	Pass	Meet the requirement of limit.			
15.207(a)	Power line Conducted Emissions	Pass	Meet the requirement of limit.			

1. The test result judgment is decided by the limit of test standard

2. The information of measurement uncertainty is available upon the customer's request.

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EUT DESCRIPTION

Product	54Mbps Wireless PCI LAN Adapter
Trade Name	ZOWEE
Model Number	WL-150G-C
Model Discrepancy	N/A
Serial Number	N/A
Power Supply	Powered by PC
Frequency Range	IEEE 802.11b mode: 2412 ~ 2462 MHz IEEE 802.11g mode: 2412 ~ 2462 MHz
Transmit Power	IEEE 802.11b mode: 17.17dBm IEEE 802.11g mode: 14.39dBm
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	IEEE 802.11b/g :11 Channels
Antenna Specification	2 dBi (Max) for Omni-directional Exterior Antenna

Note: 1. The sample selected for test was engineering sample that approximated to production product and was provided by manufacturer.

2. This submittal(s) (test report) is intended for FCC ID: <u>T5QWL150GC</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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4 TEST METHODOLOGY

4.1. 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 11Mbps 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.

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SETUP OF EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

No.	Equipment	Model No.	Serial No.	FCC ID	Trade Name	Data Cable	Power Cord
1	PC	N/A	N/A	DoC	N/A	Unshielded 1.50m	Shielded 1.80m
2	KEYBOARD	SK-2502	C0207106909	DoC	HP	Shielded 1.50m	N/A
3	MOUSE	C324	N/A	DoC	CHIC	Shielded 1.50	N/A
4	LCD MONITOR	VP201B	A2105042549	DoC	ViewSonic	Shielded 1.80	Shielded 1.50m
5	MODEM	MODEM-1414	9013593	IFXDM1414	ACEEX	Shielded 1.50m	Unshielded 1.80m
6	PRINTER	P310B	C41344000NK0 2520275	DoC	EPSON	Shielded 1.5	Unshielded 1.80m

Note:

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

5.2. CONFIGURATION OF SYSTEM UNDER TEST

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

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6 FACILITIES AND ACCREDITATIONS

6.1. 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 C63.4, ANSI C63.7 and CISPR Publication 22. All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

6.2. ACCREDITATIONS

Our laboratories are accredited and approved by the following accreditation body according to ISO/IEC 17025.

Taiwan TAF

The measuring facility of laboratories has been authorized or registered by the following approval agencies.

USA FCC Japan VCCI

Canada INDUSTRY CANADA

Taiwan BSMI

Copies of granted accreditation certificates are available for downloading from our web site, http://www.ccsemc.com.tw

6.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in ETR 028:

Measurement	Frequency		Uncertainty
Conducted emissions	9kHz~30MHz		± 3.5863
	Horizontal	30MHz ~ 200MHz	± 4.7685
Radiated emissions	rionzontai	200MHz ~1000MHz	± 4.9330
Radialed emissions	Vertical	30MHz ~ 200MHz	± 5.0411
	vertical	200MHz ~1000MHz	± 4.9262

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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LIMITS AND RESULTS

7.1. POWER LINE CONDUCTED EMISSIONS MEASUREMENT

7.1.1. LIMITS OF CONDUCTED EMISSIONS MEASUREMENT

According to §15.207(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 µH/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.

Frequency Range	Lin (dB	nits μV)
(MHz)	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

NOTE:

- (1) The lower limit shall apply at the transition frequencies.
- (2) The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.
- (3) All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

TEST INSTRUMENTS

Conducted Emission Test Site G							
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due			
EMI TEST RECEIVER	ROHDE&SCHWARZ	1166.5950 03	100088	02/24/2009			
LISN	EMCO	3825/2	1371	02/24/2009			
LISN	EMCO	3825/2	8901-1459	02/24/2009			

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. N.C.R = No Calibration Request.

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7.1.2. TEST PROCEDURES (please refer to measurement standard)

- The EUT and Support equipment, if needed, was placed on a non-conducted table, which is 0.8m above the ground plane and 0.4m away from the conducted wall.
- The test equipment EUT installed received AC main power, through a Line Impedance Stabilization Network (LISN), which supplied power source and was grounded to the ground plane. All support equipment power received from a second LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- The EUT test program was started. Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.
- The frequency range from 150 kHz to 30 MHz was searched. The test data of the worst-case condition(s) was recorded. Emission levels under limit 20dB were not recorded.

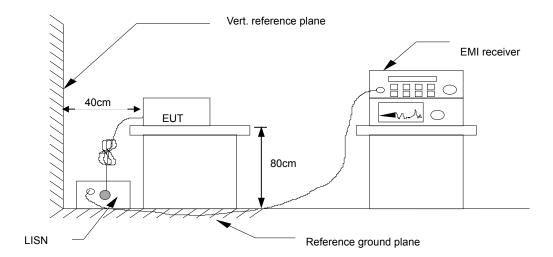
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7.1.3. TEST SETUP



 For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

7.1.4. Data Sample:

Freq. (MHz)	Q.P. Raw (dBuV)	Average Raw (dBuV)	Q.P. Limit (dBuV)	Average Limit (dBuV)	Q.P. Margin (dB)	Average Margin (dB)	Note
X.XX	43.95	33.00	56.00	46.00	-12.05	-13.00	I 1

Frequency (MHz) = Emission frequency in MHz

Reading (dBuV) = Uncorrected Analyzer/Receiver reading

Correction factor (dB) = Insertion loss of LISN Limit (dBuV) = Limit stated in standard

Margin (dB) = Reading (dBuV) – Limit (dBuV)
Note = Current carrying line of reading

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7.1.5. TEST RESULTS

Model No.	WL-150G-C	Test Mode	Normal Link
Environmental Conditions	25deg.C,43% RH, 991 hPa	6dB BANDWIDTH	9 kHz
Tested by:	Breeze Jiang		

FREQ MHz	PEAK RAW dBuV	Q.P. RAW dBuV	AVG RAW dBuV	Q.P. Limit dBuV	AVG Limit dBuV	Q.P. Margin dB	AVG Margin dB	NOTE
0.261	49.46	48.12	48.16	62.82	52.82	-14.70	-4.66	L1
0.787	44.94	40.30	33.29	56.00	46.00	-15.70	-12.71	L1
0.917	43.34	38.35	32.86	56.00	46.00	-17.65	-13.14	L1
1.110	45.29	41.55	36.12	56.00	46.00	-14.45	-9.88	L1
9.366	49.83	46.24	42.49	60.00	50.00	-13.76	-7.51	L1
16.084	51.20	45.90	40.87	60.00	50.00	-14.10	-9.13	L1
0.150	60.98	45.11	39.19	66.00	56.00	-20.89	-16.81	L2
0.276	47.62			62.40	52.40		-4.78	L2
0.832	43.89	38.73	33.51	56.00	46.00	-17.27	-12.49	L2
1.039	41.31			56.00	46.00		-4.69	L2
6.160	44.46			60.00	50.00		-5.54	L2
8.324	47.51	44.53	40.95	60.00	50.00	-15.47	-9.05	L2

REMARKS: L1 = Line One (Live Line) / L2 = Line Two (Neutral Line)

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7.2. SPURIOUS EMISSIONS MEASUREMENT

7.2.1. LIMITS OF CONDUCTED EMISSIONS MEASUREMENT

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)).

7.2.2. TEST INSTRUMENTS

Conducted Emissions Test Site									
Name of Equipment Manufacturer Model Serial Number Calibration Due									
Spectrum Analyzer Agilent E4446A US44300399 02/24/2009									

7.2.3. TEST PROCEDURE (please refer to measurement standard)

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 26GHz range with the transmitter set to the lowest, middle, and highest channels.

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Reference No.:

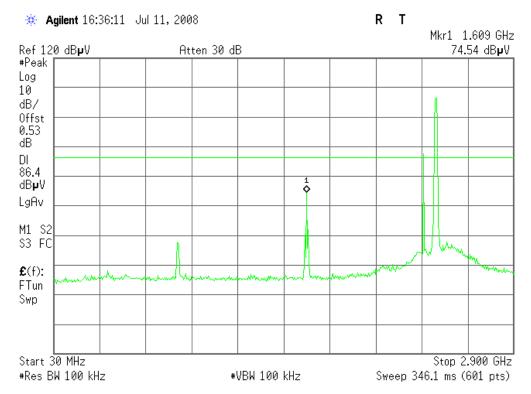
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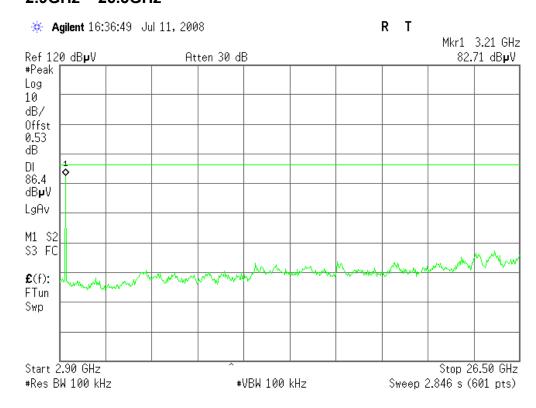
7.2.4. TEST RESULTS

Test Plot (IEEE 802.11b mode)

CH Low

30MHz ~ 2.9GHz





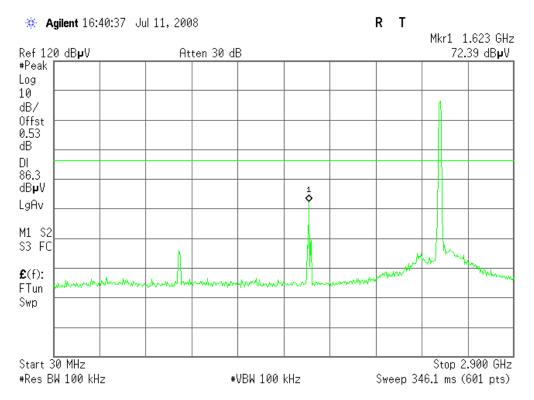


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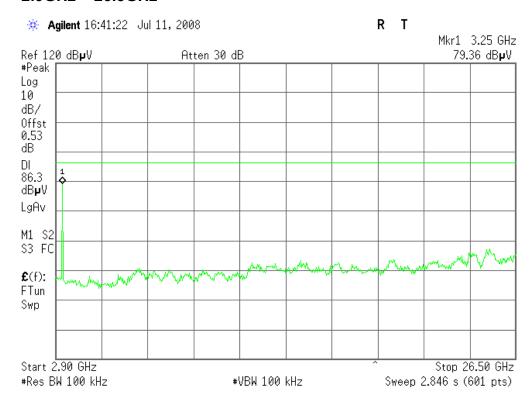
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CH Mid

30MHz ~ 2.9GHz



2.9GHz ~ 26.5GHz



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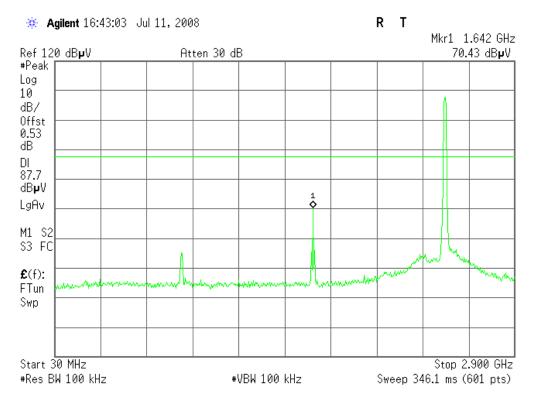


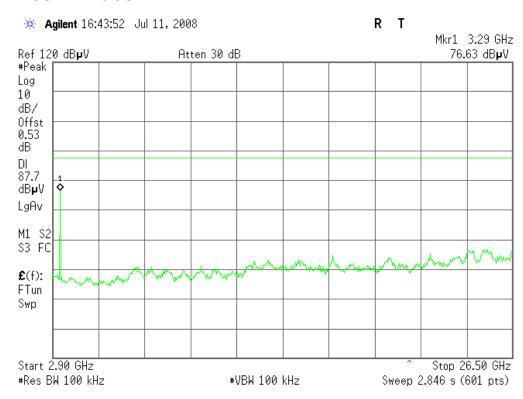
Reference No.:

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CH High

30MHz ~ 2.9GHz





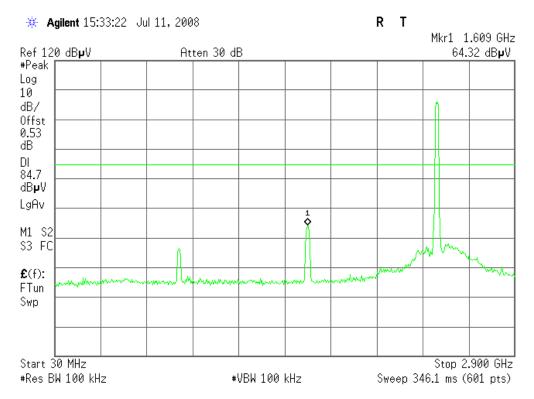


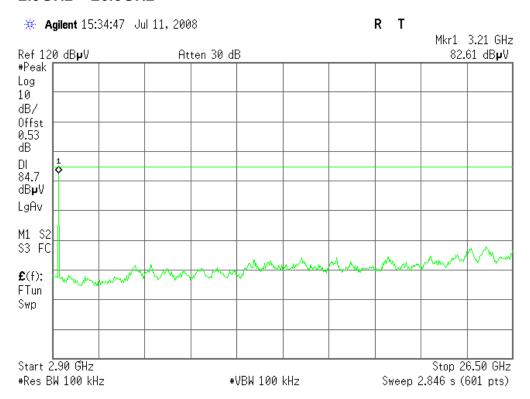
Reference No.:

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<u>Test Plot</u> (IEEE 802.11g mode) <u>CH Low</u>

30MHz ~ 2.9GHz





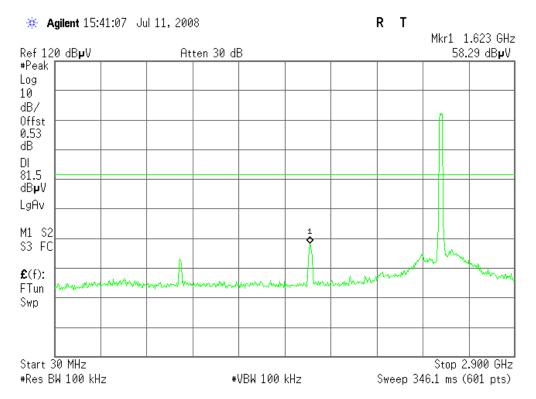


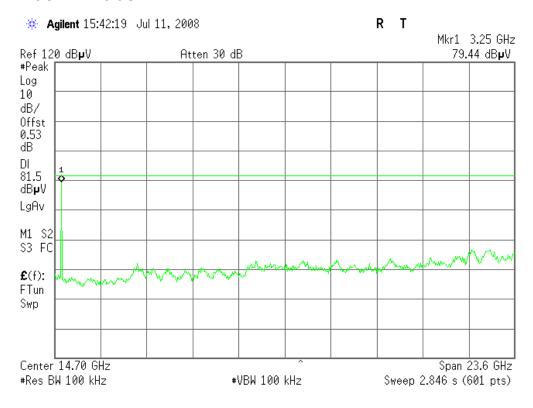
Reference No.:

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CH Mid

30MHz ~ 2.9GHz



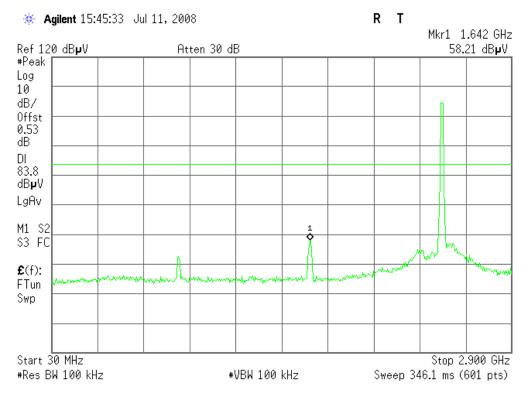


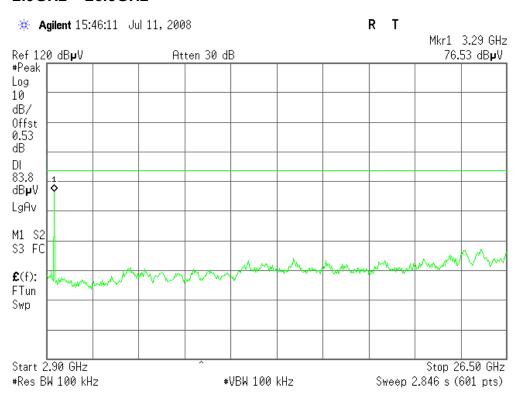
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CH High

30MHz ~ 2.9GHz





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7.2.5. RADIATED EMISSIONS

7.2.5.1. LIMITS OF RADIATED EMISSIONS MEASUREMENT

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		

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		

NOTE: (1) The lower limit shall apply at the transition frequencies.

(2) Emission level (dBuV/m) = 20 log Emission level (uV/m).

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7.2.5.2. TEST INSTRUMENTS

	966 R	F CHAMBER 2		
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	E4446A	US44300399	02/24/2009
EMI Test Receiver	R&S	ESCI	1166.5950 03	01/13/2009
Pre-Amplifier	MITEQ	N/A	AFS42-00102650-4 2-10P-42	02/14/2009
Bilog Antenna	SCHWAZBECK	CBL6143	5082	06/09/2009
Turn Table	EMCO	2081-1.21	N/A	N.C.R
Antenna Tower	СТ	N/A	N/A	N.C.R
Controller	СТ	N/A	N/A	N.C.R
RF Comm. Test set	HP	8920B	US36142090	N.C.R
Site NSA	C&C	N/A	N/A	06/09/2009
Horn Antenna	TRC	N/A	N/A	03/04/2009
Signal Generator	Anritsu	MG3694A	#050125	02/24/2009

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

- 2. The FCC Site Registration number is 101879.
- 4. N.C.R = No Calibration Required.

7.2.5.3. TEST PROCEDURE (please refer to measurement standard)

- 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.
- EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 6. Set the spectrum analyzer in the following setting as:

Below 1GHz:

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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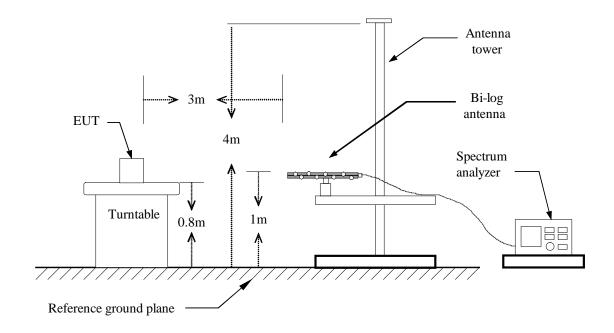


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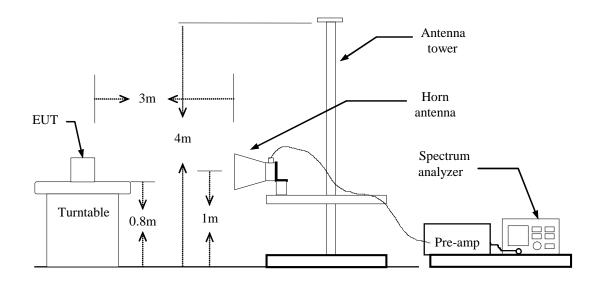
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7.2.5.4. TEST SETUP

Below 1 GHz



Above 1 GHz



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

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7.2.5.5. Data Sample:

Below 1 GHz

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Remark) (dBuV)	Correction Factor (dB/m)	Result (Remark) (dBuV/m)	Limit (Peak) (dBuV/m)	Margin (dB)	Remark
XXX	V	12.12	10.21	22.33	40.00	-17.67	Peak

Above 1 GHz

F	requency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	` ,	Limit (Average) (dBuV/m)	(AR)	Remark
	xxx	V	65.45	63.00	-11.12	54.33	51.88	74.00	54.00	-2.12	AVG

Frequency (MHz) = Emission frequency in MHz
Ant.Pol. (H/V) = Antenna polarization
Reading (dBuV) = Uncorrected Analyzer / Received = Uncorrected Analyzer / Receiver reading Correction Factor (dB/m) = Antenna factor + Cable loss – Amplifier gain Result (dBuV/m)
Limit (dBuV/m) = Reading (dBuV) + Correction Factor (dB/m)

= Limit stated in standard

Margin (dB) = Remark Result (dBuV/m) – Limit (dBuV/m)

Peak = Peak Reading

QP = Quasi-peak Reading **AVG** = Average Reading

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7.2.5.6. TEST RESULTS

Below 1 GHz

Operation Mode: Normal Link Test Date: July 12, 2008

26°C Tested by: Breeze Jiang Temperature:

Humidity: 50 % 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)
55.200	V	Peak	48.15	-19.34	28.81	40.00	-11.19
113.250	V	Peak	51.58	-19.83	31.75	43.50	-11.75
143.850	V	Peak	50.92	-19.22	31.70	43.50	-11.80
381.666	V	Peak	48.17	-12.21	35.96	46.00	-10.04
479.666	V	Peak	50.36	-9.64	40.72	46.00	-5.28
680.333	V	Peak	45.25	-5.03	40.22	46.00	-5.78
81.750	Н	Peak	48.14	-19.95	28.19	40.00	-11.81
211.350	Н	Peak	53.84	-17.30	36.54	43.50	-6.96
277.950	Н	Peak	53.40	-15.19	38.21	46.00	-7.79
450.500	Н	Peak	45.72	-10.21	35.51	46.00	-10.49
671.000	Н	Peak	47.32	-5.09	42.23	46.00	-3.77
825.000	Н	Peak	44.19	-2.87	41.32	46.00	-4.68

^{**}Note: No emission found between lowest internal used/generated frequency to 30 MHz.

REMARKS:

- 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.
- Margin (dB) = Remark result (dBuV/m) Quasi-peak limit (dBuV/m).

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Reference No.:

Report No.: SZ080114B02-RP

Above 1 GHz

Operation Mode: TX / IEEE 802.11b / CH Low Test Date: July 12, 2008

Temperature: 26°C **Tested by:** Breeze Jiang

Humidity: 50% RH **Polarity:** Ver. / Hor.

Frequency	Ant.Pol.	Reading	Reading	Correction Factor	Result	Result	Limit	Limit	Margin	
(MHz)	(H/V)	(Peak)	(Average)	(dB/m)	(Peak)	(Average)	(Peak)	(Average)	(dB)	Remark
		(dBuV)	(dBuV)		(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)		
1200.000	V	71.55	60.39	-11.07	60.48	49.32	74.00	54.00	-4.68	AVG.
1440.000	V	62.31	52.86	-9.75	52.56	43.11	74.00	54.00	-10.89	AVG.
1606.666	V	70.79	54.45	-8.58	62.21	45.87	74.00	54.00	-8.13	AVG.
4825.000	V	65.63	47.45	2.68	68.31	50.13	74.00	54.00	-3.87	AVG.
1203.333	Н	66.39	55.22	-11.05	55.34	44.17	74.00	54.00	-9.83	AVG.
1600.000	Н	66.58	52.22	-8.63	57.95	43.59	74.00	54.00	-10.41	AVG.
2130.000	Н	63.49	50.28	-4.95	58.54	45.33	74.00	54.00	-8.67	AVG.
3983.333	Н	47.30		1.51	48.81		74.00	54.00	-5.19	Peak
N/A				_	-	_				

REMARKS:

- 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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Reference No.:

Report No.: SZ080114B02-RP

Operation Mode: TX / IEEE 802.11b / CH Mid Test Date: July 12, 2008

Temperature: 26°C **Tested by:** Breeze Jiang

Humidity: 50% RH **Polarity:** Ver. / Hor.

Frequency	Ant.Pol.	Reading	Reading	Correction Factor	Result	Result	Limit	Limit	Margin	
(MHz)	(H/V)	(Peak)	(Average)	(dB/m)	(Peak)	(Average)	(Peak)	(Average)	(dB)	Remark
		(dBuV)	(dBuV)		(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)		
1203.333	V	71.60	59.07	-11.05	60.55	48.02	74.00	54.00	-5.98	AVG.
1536.666	V	67.47	53.60	-9.13	58.34	44.47	74.00	54.00	-9.53	AVG.
1603.333	V	70.14	51.77	-8.60	61.54	43.17	74.00	54.00	-10.83	AVG.
4875.000	V	66.16	45.41	2.77	68.93	48.18	74.00	54.00	-5.82	AVG.
N/A										
1200.000	Н	66.86	58.36	-11.07	55.79	47.29	74.00	54.00	-6.71	AVG.
1590.000	Н	66.33	51.82	-8.71	57.62	43.11	74.00	54.00	-10.89	AVG.
2130.000	Н	62.65	52.47	-4.95	57.70	47.52	74.00	54.00	-6.48	AVG.
4008.333	Н	47.97		1.67	49.64		74.00	54.00	-4.36	Peak
N/A										

REMARKS:

- 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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Reference No.:

Report No.: SZ080114B02-RP

Operation Mode: TX / IEEE 802.11b / CH High July 12, 2008 Test Date:

26°C Temperature: Tested by: **Breeze Jiang**

Humidity: 50 % RH **Polarity:** Ver. / Hor.

Frequency	Ant.Pol.	Reading	Reading	Correction Factor	Result	Result	Limit	Limit	Margin	
(MHz)	(H/V)	(Peak)	(Average)	(dB/m)	(Peak)	(Average)	(Peak)	(Average)	(dB)	Remark
		(dBuV)	(dBuV)		(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)		
1196.666	V	70.93	58.22	-11.09	59.84	47.13	74.00	54.00	-6.87	AVG.
1603.333	V	71.41	54.69	-8.60	62.81	46.09	74.00	54.00	-7.91	AVG.
1870.000	V	63.70	48.60	-6.49	57.21	42.11	74.00	54.00	-11.89	AVG.
4925.000	V	62.80	44.77	2.85	65.65	47.62	74.00	54.00	-6.38	AVG.
N/A										
1206.666	Н	65.80	51.42	-11.03	54.77	40.39	74.00	54.00	-13.61	AVG.
1590.000	Н	65.77	53.95	-8.71	57.06	45.24	74.00	54.00	-8.76	AVG.
2403.333	Н	67.09	50.88	-3.86	63.23	47.02	74.00	54.00	-6.98	AVG.
4525.000	Н	52.69	42.08	2.16	54.85	44.24	74.00	54.00	-9.76	AVG.
N/A										

REMARKS:

- 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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Reference No.:

Report No.: SZ080114B02-RP

Operation Mode: TX / IEEE 802.11g / CH Low Test Date: July 12, 2008

Temperature: 26°C **Tested by:** Breeze Jiang

Humidity: 50 % RH **Polarity:** Ver. / Hor.

Frequency	Ant.Pol.	Reading	Reading	Correction Factor	Result	Result	Limit	Limit	Margin	
(MHz)	(H/V)	(Peak)	(Average)	(dB/m)	(Peak)	(Average)	(Peak)	(Average)	(dB)	Remark
		(dBuV)	(dBuV)		(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)		
1203.333	V	71.74	57.04	-11.05	60.69	45.99	74.00	54.00	-8.01	AVG.
1600.000	V	70.70	55.81	-8.63	62.07	47.18	74.00	54.00	-6.82	AVG.
1866.666	V	54.99	46.77	-6.52	48.47	40.25	74.00	54.00	-13.75	AVG.
4825.000	V	64.63	44.67	2.68	67.31	47.35	74.00	54.00	-6.65	AVG.
N/A										
1403.333	Н	62.42	56.57	-9.95	52.47	46.62	74.00	54.00	-7.38	AVG.
1603.333	Н	65.39	56.03	-8.60	56.79	47.43	74.00	54.00	-6.57	AVG.
2633.333	Н	53.27	48.19	-3.11	50.16	45.08	74.00	54.00	-8.92	AVG.
3975.000	Н	45.89		1.43	47.32		74.00	54.00	-6.68	Peak
N/A										

REMARKS:

- 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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Reference No.:

Report No.: SZ080114B02-RP

July 12, 2008 **Operation Mode:** TX / IEEE 802.11g / CH Mid **Test Date:**

26°C **Breeze Jiang** Temperature: Tested by:

50 % RH Ver. / Hor. **Humidity: Polarity:**

Frequency	Ant.Pol.	Reading	Reading	Correction Factor	Result	Result	Limit	Limit	Margin	
(MHz)	(H/V)	(Peak)	(Average)	(dB/m)	(Peak)	(Average)	(Peak)	(Average)	(dB)	Remark
		(dBuV)	(dBuV)		(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)		
1200.000	٧	71.67	57.42	-11.07	60.60	46.35	74.00	54.00	-7.65	AVG.
1603.333	V	70.37	55.89	-8.60	61.77	47.29	74.00	54.00	-6.71	AVG.
1790.000	V	62.37	50.30	-7.12	55.25	43.18	74.00	54.00	-10.82	AVG.
4875.000	V	68.83	46.25	2.77	71.60	49.02	74.00	54.00	-4.98	AVG.
N/A										
1200.000	Н	66.17	53.74	-11.07	55.10	42.67	74.00	54.00	-11.33	AVG.
1600.000	Н	64.98	53.17	-8.63	56.35	44.54	74.00	54.00	-9.46	AVG.
213.000	Н	63.34	50.22	-4.95	58.39	45.27	74.00	54.00	-8.73	AVG.
3725.000	Н	48.79		-0.89	47.90		74.00	54.00	-6.10	Peak
N/A										

REMARKS:

- 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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Reference No.:

Report No.: SZ080114B02-RP

Operation Mode: TX / IEEE 802.11g / CH High Test Date: July 12, 2008

Temperature: 26°C Tested by: Breeze Jiang

Humidity: 50 % RH **Polarity:** Ver. / Hor.

Frequency	Ant.Pol.	Reading	Reading	Correction Factor	Result	Result	Limit	Limit	Margin	
(MHz)	(H/V)	(Peak)	(Average)	(dB/m)	(Peak)	(Average)	(Peak)	(Average)	(dB)	Remark
		(dBuV)	(dBuV)		(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)		
1200.000	V	71.35	57.40	-11.07	60.28	46.33	74.00	54.00	-7.67	AVG.
1600.000	V	70.22	56.48	-8.63	61.59	47.85	74.00	54.00	-6.15	AVG.
2000.000	V	59.28	46.95	-5.46	53.82	41.49	74.00	54.00	-12.51	AVG.
4925.000	V	64.19	44.43	2.85	67.04	47.28	74.00	54.00	-6.72	AVG.
N/A										
1206.666	Н	66.04	51.62	-11.03	55.01	40.59	74.00	54.00	-13.41	AVG.
1600.000	Н	66.07	51.35	-8.63	57.44	42.72	74.00	54.00	-11.28	AVG.
2400.000	Н	66.68	49.69	-3.88	62.80	45.81	74.00	54.00	-8.19	AVG.
4558.333	Н	52.93	38.64	2.22	55.15	40.86	74.00	54.00	-13.14	AVG.
N/A										

REMARKS:

- 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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7.3. 6dB BANDWIDTH MEASUREMENT

7.3.1. LIMITS

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 6 dB bandwidth shall be at least 500 kHz.

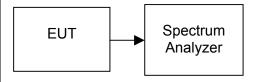
7.3.2. TEST INSTRUMENTS

Conducted Emissions Test Site								
Name of Equipment Manufacturer Model Serial Number Calibration Due								
Spectrum Analyzer	Agilent	E4446A	US44300399	02/24/2009				

7.3.3. TEST PROCEDURES (please refer to measurement standard)

- Place the EUT on the table and set it in the transmitting mode.
- Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- Set the spectrum analyzer as RBW = 100kHz, VBW = RBW, Span = 20MHz, Sweep = auto.
- 4. Mark the peak frequency and –6dB (upper and lower) frequency.
- Repeat until all the rest channels are investigated.

7.3.4. TEST SETUP



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Reference No.:

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7.3.5. TEST RESULTS

No non-compliance noted

Test Data

Test mode: IEEE 802.11b

Channel	Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Test Result
Low	2412	12230		PASS
Mid	2437	12200	>500	PASS
High	2462	12230		PASS

Test Data

Test mode: IEEE 802.11g

Channel	Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Test Result
Low	2412	16570		PASS
Mid	2437	16600	>500	PASS
High	2462	16570		PASS

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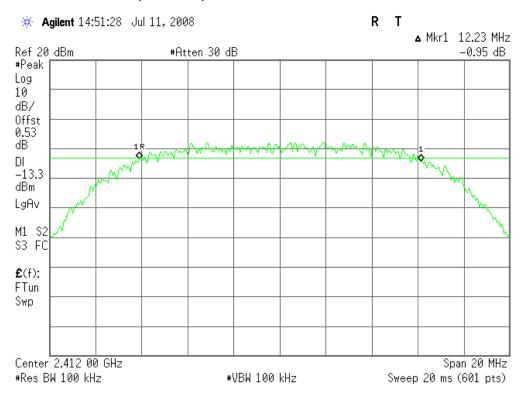
Reference No.:

Report No.: SZ080114B02-RP

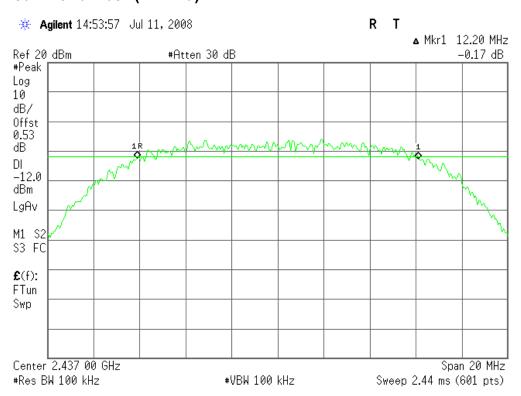
Test Plot

(IEEE 802.11b mode)

6dB Bandwidth (CH Low)



6dB Bandwidth (CH Mid)

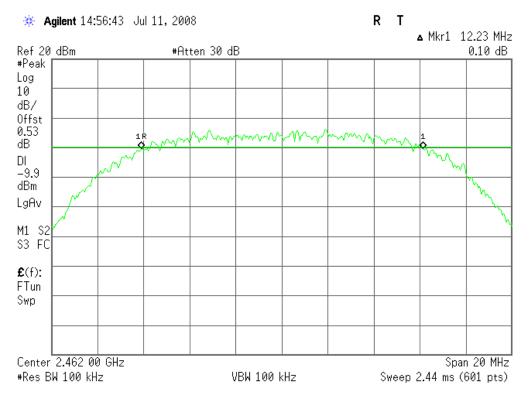




Reference No.:

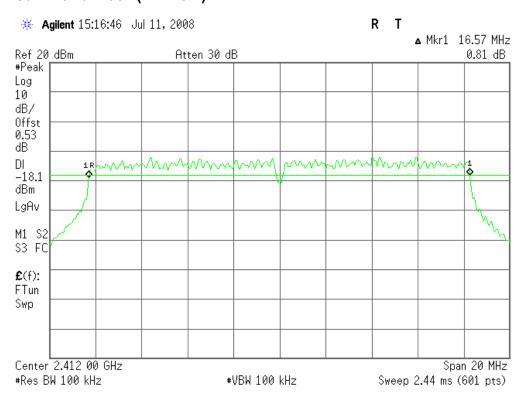
Report No.: SZ080114B02-RP

6dB Bandwidth (CH High)



IEEE 802.11g mode

6dB Bandwidth (CH Low)

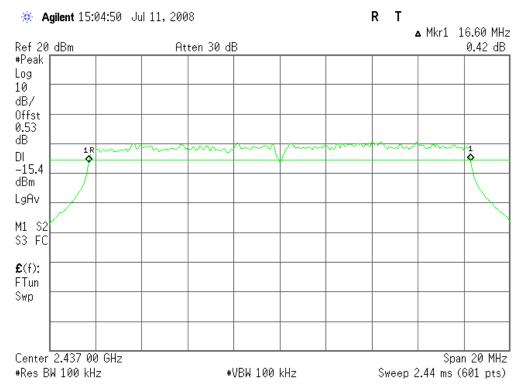




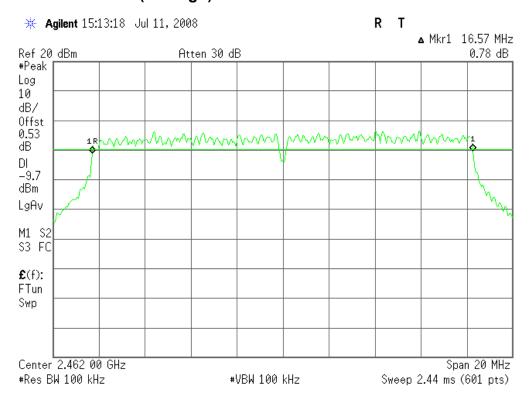
Reference No.:

Report No.: SZ080114B02-RP

6dB Bandwidth (CH Mid)



6dB Bandwidth (CH High)





Reference No.:

Report No.: SZ080114B02-RP

7.4. PEAK OUTPUT POWER

7.4.1. LIMITS

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

- 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.

7.4.2. TEST INSTRUMENTS

Conducted Emissions Test Site					
Name of Equipment Manufacturer Model Serial Number Calibration D					
Spectrum Analyzer	Agilent	E4446A	US44300399	02/24/2009	

7.4.3. TEST PROCEDURES (please refer to measurement standard)

- Set span to encompass the entire emission bandwidth (EBW) of the signal. 1
- 2 Set RBW = 1 MHz.
- 3 Set VBW ≥ 3 MHz.
- 4 Use sample detector mode if bin width (i.e., span/number of points in spectrum display) < 0.5 RBW. Otherwise use peak detector mode.
- 5 Use a video trigger with the trigger level set to enable triggering only on full power pulses. Transmitter must operate at full control power for entire sweep of every sweep. If the device transmits continuously, with no off intervals or reduced power intervals, the trigger may be set to "free run".
- Trace average 100 traces in power averaging mode. 6
- 7 Compute power by integrating the spectrum across the 26 dB EBW of the signal. The integration can be performed using the spectrum analyzer's band power measurement function with band limits set equal to the EBW band edges or by summing power levels in each 1 MHz band in linear power terms. The 1 MHz band power levels to be summed can be obtained by averaging, in linear power terms, power levels in each frequency bin across the 1 MHz.

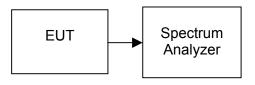
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Reference No.:

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7.4.4. TEST SETUP



7.4.5. 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	17.09	0.05117		PASS
Mid	2437	17.01	0.05023	1	PASS
High	2462	17.17	0.05212		PASS

Test mode: IEEE 802.11g

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Limit (W)	Result
Low	2412	14.07	0.02553		PASS
Mid	2437	14.39	0.02748	1	PASS
High	2462	14.04	0.02535		PASS

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Test Plot

IEEE 802.11b mode

Peak power (CH Low)



R T



Channel Power

Power Spectral Density

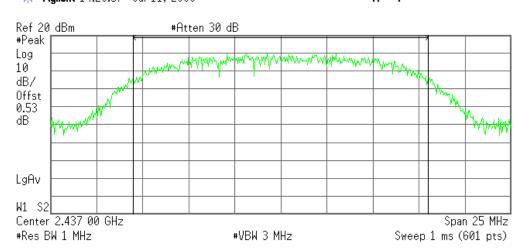
17.09 dBm /16.0000 MHz

-54.95 dBm/Hz

Peak power (CH Mid)



R T



Channel Power

Power Spectral Density

17.01 dBm /16.0000 MHz

-55.03 dBm/Hz

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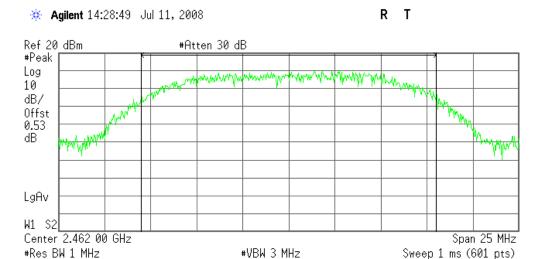
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Reference No.:

Report No.: SZ080114B02-RP

Peak power (CH High)



Channel Power

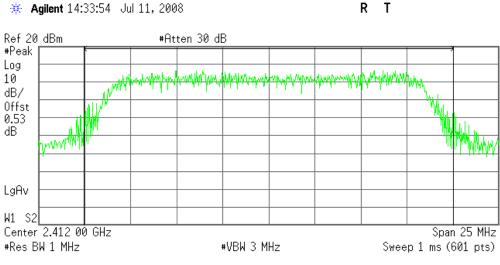
17.17 dBm /16.0000 MHz

Power Spectral Density

-54.87 dBm/Hz

IEEE 802.11g mode

Peak power (CH Low)



Channel Power

14.07 dBm /20.0000 MHz

Power Spectral Density -58.94 dBm/Hz

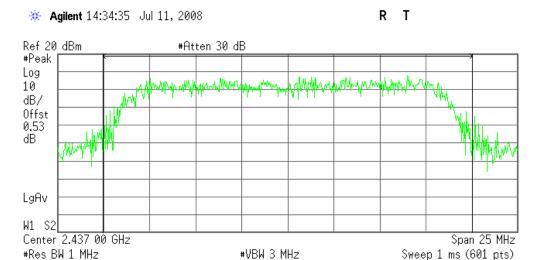
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Peak power (CH Mid)



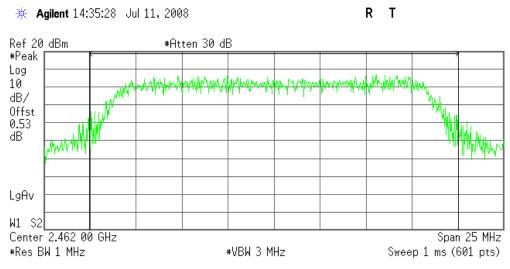
Channel Power

14.39 dBm /20.0000 MHz

Power Spectral Density

-58.62 dBm/Hz

Peak power (CH High)



Channel Power

14.04 dBm /20.0000 MHz

Power Spectral Density

-58.97 dBm/Hz

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7.5. BAND EDGES MEASUREMENT:

7.5.1. LIMITS

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)).

7.5.2. TEST INSTRUMENTS

966 RF CHAMBER 2					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due	
Spectrum Analyzer	Agilent	E4446A	US44300399	02/24/2009	
EMI Test Receiver	R&S	ESCI	1166.5950 03	01/13/2009	
Pre-Amplifier	MITEQ	N/A	AFS42-00102650-4 2-10P-42	02/14/2009	
Bilog Antenna	SCHWAZBECK	CBL6143	5082	06/09/2009	
Turn Table	EMCO	2081-1.21	N/A	N.C.R	
Antenna Tower	СТ	N/A	N/A	N.C.R	
Controller	СТ	N/A	N/A	N.C.R	
RF Comm. Test set	HP	8920B	US36142090	N.C.R	
Site NSA	C&C	N/A	N/A	06/09/2009	
Horn Antenna	TRC	N/A	N/A	03/04/2009	
Signal Generator	Anritsu	MG3694A	#050125	02/24/2009	

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

- 2. The FCC Site Registration number is 101879.
- 4. N.C.R = No Calibration Required.

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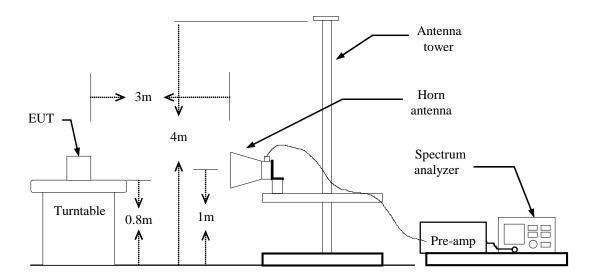
Reference No.:

Report No.: SZ080114B02-RP

7.5.3. TEST PROCEDURES (please refer to measurement standard)

- 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

7.5.4. TEST SETUP





Reference No.:

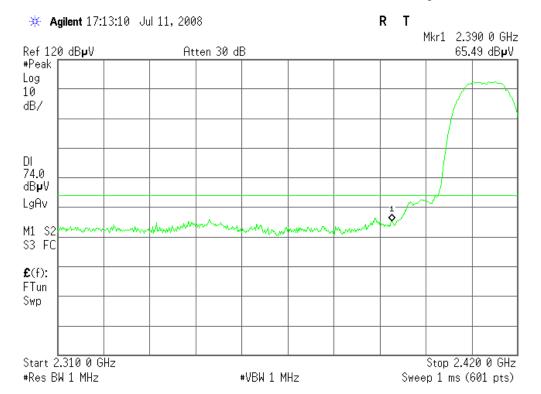
Report No.: SZ080114B02-RP

7.5.5. TEST RESULTS

Test Plot (IEEE 802.11b mode)

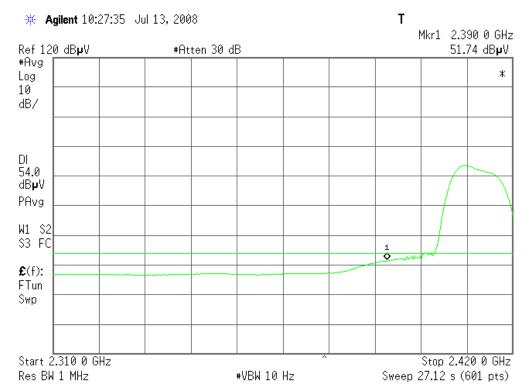
Band Edges (CH Low)

Detector mode: Peak Polarity: Vertical



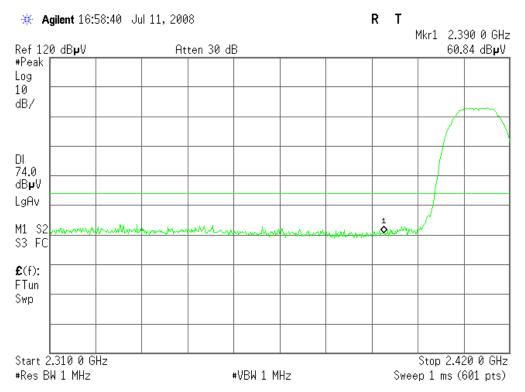
Detector mode: Average





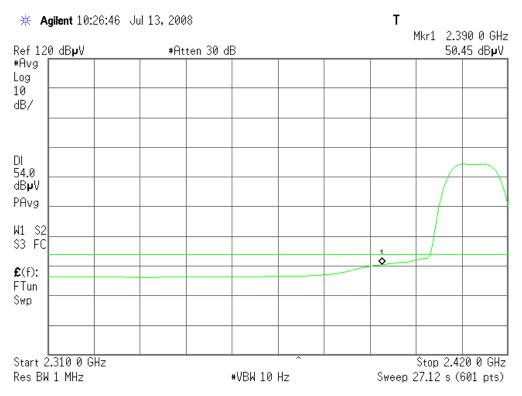
Report No.: SZ080114B02-RP

Detector mode: Peak Polarity: Horizontal



Detector mode: Average

Polarity: Horizontal



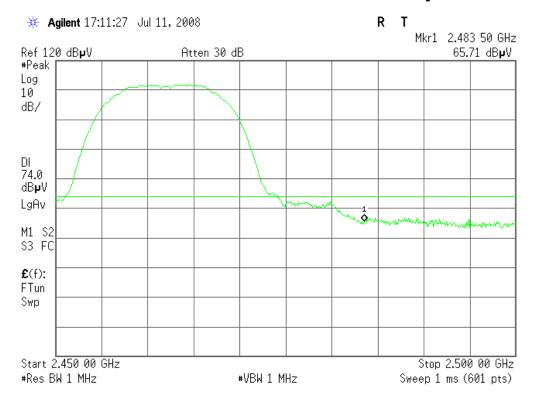
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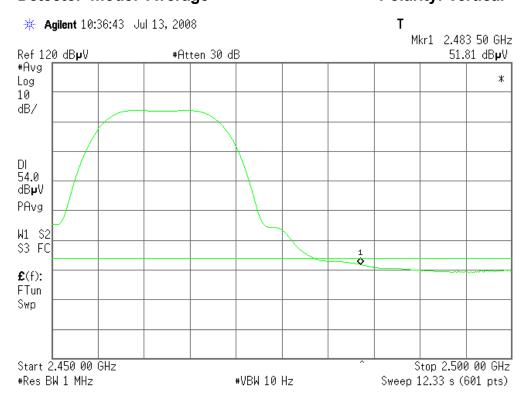
Band Edges (CH High)

Detector mode: Peak Polarity: Vertical



Detector mode: Average

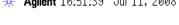
Polarity: Vertical

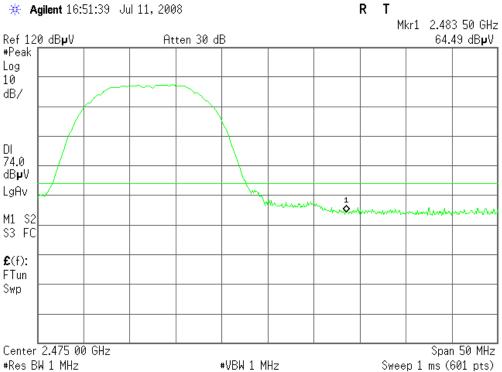


Report No.: SZ080114B02-RP

Detector mode: Peak

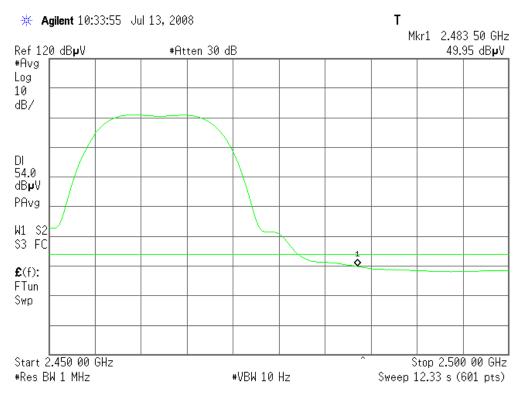
Polarity: Horizontal





Detector mode: Average

Polarity: Horizontal





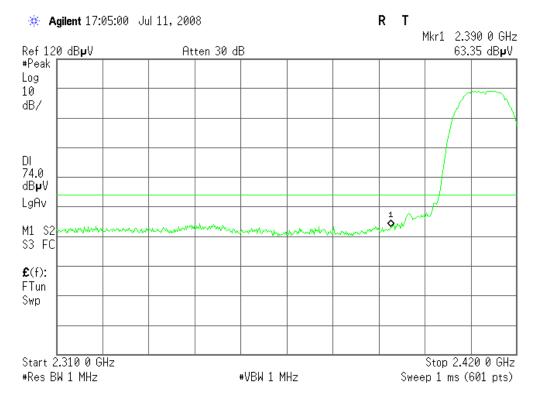
Reference No.:

Report No.: SZ080114B02-RP

Test Plot (IEEE 802.11g mode)

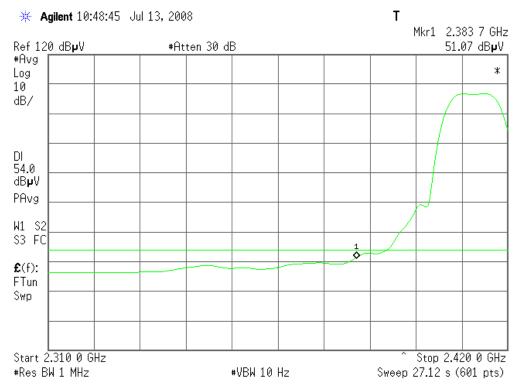
Band Edges (CH Low)

Detector mode: Peak Polarity: Vertical



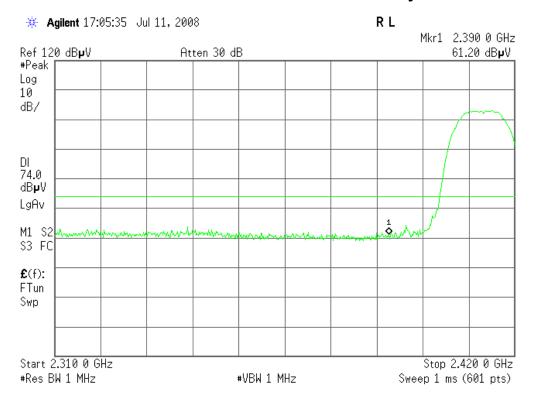
Detector mode: Average

Polarity: Vertical



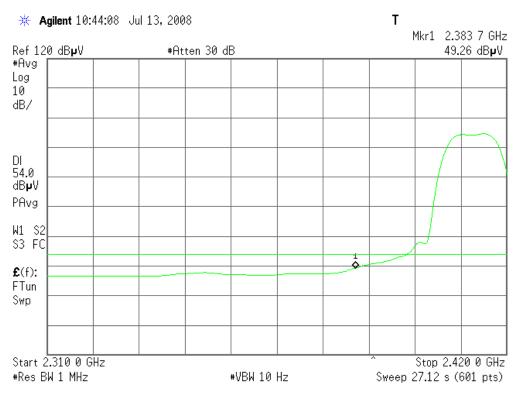
Report No.: SZ080114B02-RP

Detector mode: Peak Polarity: Horizontal



Detector mode: Average

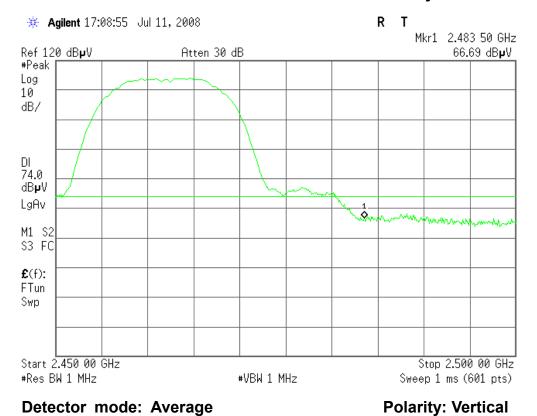
Polarity: Horizontal



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Band Edges (CH High)

Polarity: Vertical Detector mode: Peak



Detector mode: Average

* Agilent 10:50:15 Jul 13, 2008 R T Mkr1 2.483 50 GHz Ref 120 dBpV #Atten 30 dB 51.66 dBµV #Avg Log 10 dB/ DI 54.0 dB₽V PAvg W1 S2 S3 FC **£**(f): FTun Swp Start 2.450 00 GHz Stop 2.500 00 GHz

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#Res BW 1 MHz

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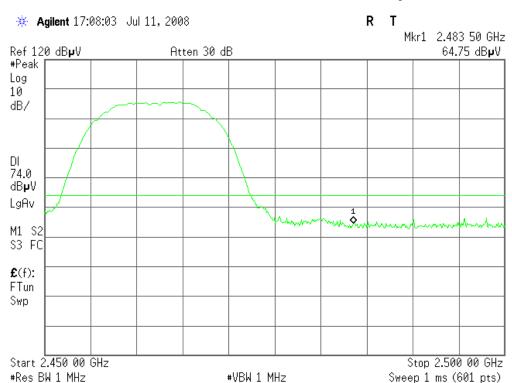
Sweep 12.33 s (601 pts)

#VBW 10 Hz

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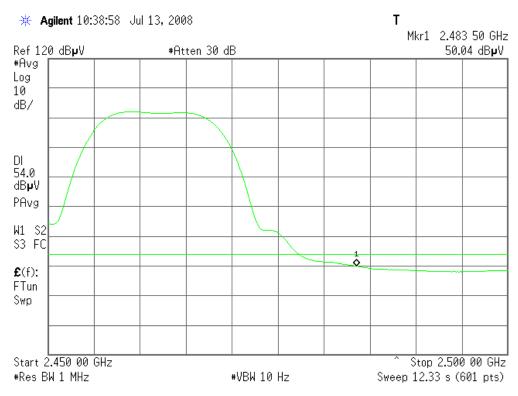
Detector mode: Peak

Polarity: Horizontal



Detector mode: Average

Polarity: Horizontal



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7.6. PEAK POWER SPECTRAL DENSITY MEASUREMENT

7.6.1. LIMITS

- 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.
- 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.

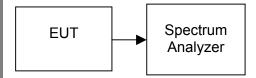
7.6.2. TEST INSTRUMENTS

Conducted Emissions Test Site					
Name of Equipment Manufacturer Model Serial Number Calibration					
Spectrum Analyzer	Agilent	E4446A	US44300399	02/24/2009	

7.6.3. TEST PROCEDURES (please refer to measurement standard)

- 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.

7.6.4. TEST SETUP



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7.6.5. TEST RESULTS

No non-compliance noted

Test Data

Test mode: IEEE 802.11b

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Test Result
Low	2412	-21.38		PASS
Mid	2437	-20.18	8.00	PASS
High	2462	-19.22		PASS

Test Data

Test mode: IEEE 802.11g

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Test Result
Low	2412	-24.69		PASS
Mid	2437	-20.91	8.00	PASS
High	2462	-20.49		PASS

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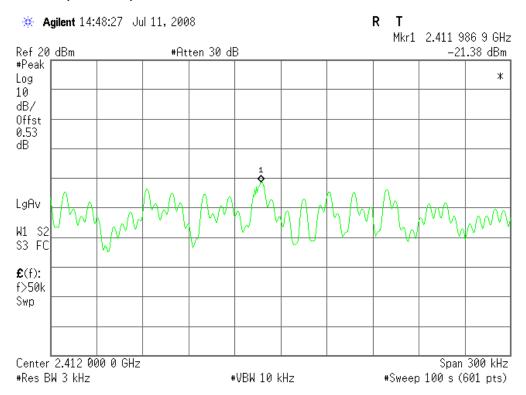


Reference No.:

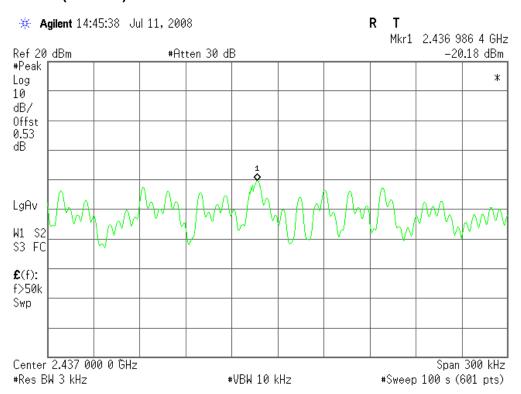
Report No.: SZ080114B02-RP

Test Plot

IEEE 802.11b mode PPSD (CH Low)



PPSD (CH Mid)

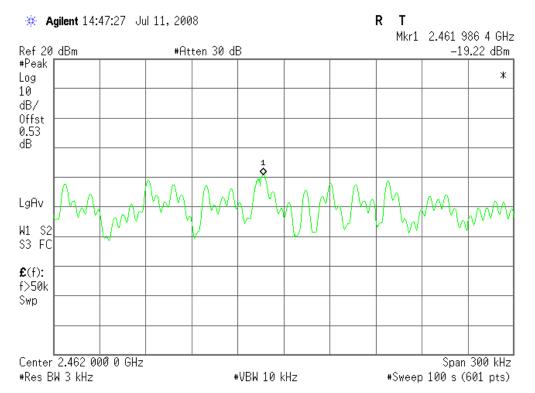




Reference No.:

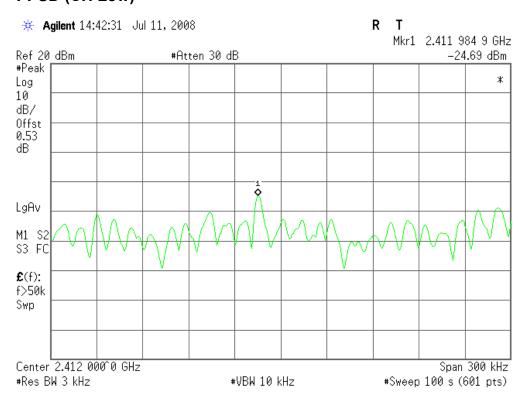
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PPSD (CH High)



IEEE 802.11g mode

PPSD (CH Low)



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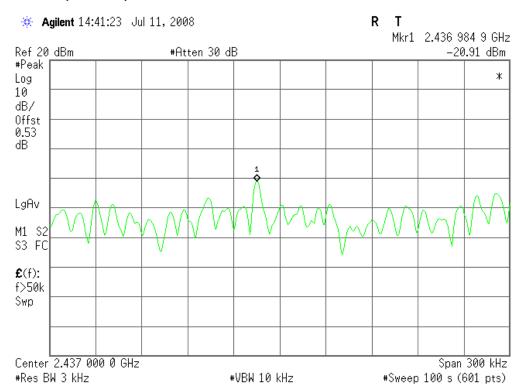


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PPSD (CH Mid)



PPSD (CH High)

