



FCC CFR47 PART 15 SUBPART C CERTIFICATION

REVISED TEST REPORT

FOR

2.4GHZ TRUE MIMO PC CARD

MODEL NUMBER: AGN1023PC

FCC ID: SA3-AGN1023PC0200

REPORT NUMBER: 04U2913-1

ISSUE DATE: Oct. 01, 2004

Prepared for

AIRGO NETWORKS INC. 900 ARASTRADERO ROAD PALO ALTO, CA 94304, USA

Prepared by

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1. TEST RESULT CERTIFICATION

COMPANY NAME: AIRGO NETWORKS INC

900 ARASTRADERO ROAD PALO ALTO, CA 94304 U.S.A.

EUT DESCRIPTION: 2.4GHz True MIMO PC Card

MODEL: AGN1023PC

S/N: 0124

DATE TESTED: JULY 10 – OCTOBER 1, 2004

APPLICABLE STANDARDS

STANDARD TEST RESULTS

FCC PART 15 SUBPART C NO NON-COMPLIANCE NOTED

Compliance Certification Services, Inc. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: This document reports conditions under which testing was conducted and results of tests performed. This document may not be altered or revised in any way unless done so by Compliance Certification Services and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by Compliance Certification Services will constitute fraud and shall nullify the document.

Approved & Released For CCS By:

Tested By:

MICHAEL HECKROTTE EMC MANAGER

MH

COMPLIANCE CERTIFICATION SERVICES

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COMPLIANCE CERTIFICATION SERVICES

2. EUT DESCRIPTION

The EUT is an 802.11b/g MIMO CardBus employs two transceiver chains and third receiver.

The transmitter has a maximum conducted combined peak output power as follows:

Frequency Band	Mode	Output Power	Output Power
(MHz)		(dBm)	(mW)
2412 - 2462	802.11b	24.45	278.61
2412 - 2462	802.11g	29.20	831.76

The radio utilizes two transceiver antennas and one receiver antenna, each with a maximum gain of 2 dBi.

3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4/2001, FCC CFR 47 Part 2 and FCC CFR 47 Part 15.

4. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 561F Monterey Road, Morgan Hill, California, USA. 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."

CCS is accredited by NVLAP, Laboratory Code 200065-0. The full scope of accreditation can be viewed at http://www.ccsemc.com.



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

5. CALIBRATION AND UNCERTAINTY

5.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

5.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	UNCERTAINTY
Radiated Emission, 30 to 200 MHz	+/- 3.3 dB
Radiated Emission, 200 to 1000 MHz	+4.5 / -2.9 dB
Radiated Emission, 1000 to 2000 MHz	+4.5 / -2.9 dB
Power Line Conducted Emission	+/- 2.9 dB

Uncertainty figures are valid to a confidence level of 95%.

5.3. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

TEST EQUIPMENT LIST					
Description	Manufacturer	Model	Serial Number	Cal Due	
Peak Power Meter	Agilent	E4416A	GB41291160	11/7/2004	
Peak / Average Power Sensor	Agilent	E9327A	US40440755	11/7/2004	
EMI Test Receiver	R & S	ESIB40	100192	11/21/2004	
Antenna, Horn 1 ~ 18 GHz	EMCO	3117	29301	12/26/2004	
Preamplifier, 1 ~ 26 GHz	Miteq	NSP10023988	646456	6/10/2005	
EMI Receiver, 9 kHz ~ 2.9 GHz	HP	8542E	3942A00286	11/21/2004	
RF Filter Section	HP	85420E	3705A00256	11/21/2004	
30MHz 2Ghz	Sunol Sciences	JB1 Antenna	A121003	12/22/2004	
Antenna, Horn 26 ~ 40 GHz	ARA	MWH-2640/B	1029	38324	
Spectrum Analyzer	Agilent	E4446A	MY43360112	1/13/2005	
EMI Test Receiver	R & S	ESHS 20	827129/006	7/17/2005	
LISN, 10 kHz ~ 30 MHz	FCC	50/250-25-2	114	10/13/2004	
LISN, 10 kHz ~ 30 MHz	Solar	8012-50-R-24-BNO	8379443	10/13/2004	
AC Power Source, 10KVA	ACS	AFC-10K-AFC-2	J1568	CNR	
Site A Line Stabilizer / Condition	Tripplite	LC-1800a	A0051681	CNR	
PreAmplifier 26-40 GHz	MITEQ	NSP4000-SP2	924343	38139	

6. SETUP OF EQUIPMENT UNDER TEST

SUPPORT EQUIPMENT

PERIPHERAL SUPPORT EQUIPMENT LIST					
Description Manufacturer Model Serial Number FCC ID					
Laptop PC	Sony	PCG-5312	28315730 3303321	AK8JPN-35452-M5-E	

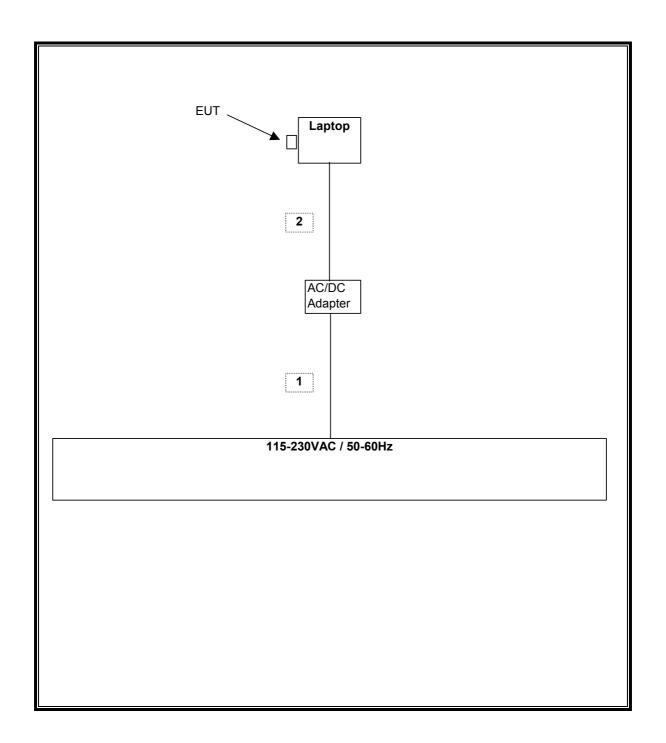
I/O CABLES

	I/O CABLE LIST					
Cable	Port	# of	Connector	Cable	Cable	Remarks
No.		Identical	Type	Type	Length	
		Ports				
1	AC	1	US115	UNSHIELDED	2m	NO
2	DC	1	DC	UNSHIELDED	2m	NO

TEST SETUP

The EUT is installed in a host laptop computer via a cardbus extender adapter during the tests. Test software exercised the radio card.

SETUP DIAGRAM FOR TESTS



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7. APPLICABLE LIMITS AND TEST RESULTS

7.1. 6 dB BANDWIDTH

LIMIT

§15.247 (a) (2) For direct sequence systems, the minimum 6 dB bandwidth shall be at least 500 kHz.

TEST PROCEDURE

The transmitter output is connected to a spectrum analyzer. The RBW is set to 100 kHz and the VBW is set to 300 kHz. The sweep time is coupled.

RESULTS

No non-compliance noted:

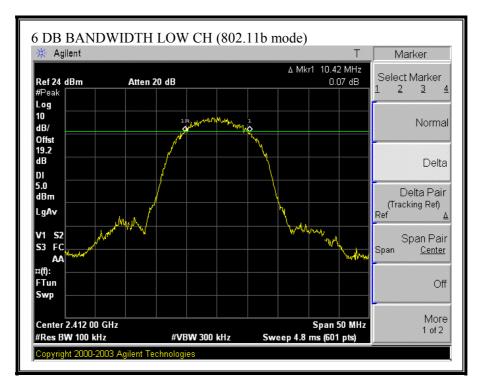
802.11b Mode / 1Mbps/ Both TX chains via Combiner

Channel	Frequency	6 dB Bandwidth	Minimum Limit	Margin
	(MHz)	(kHz)	(kHz)	(kHz)
Low	2412	10420	500	9920
Middle	2437	10080	500	9580
High	2462	10420	500	9920

802.11g Mode/ 6 Mbps / Both TX chains via Combiner

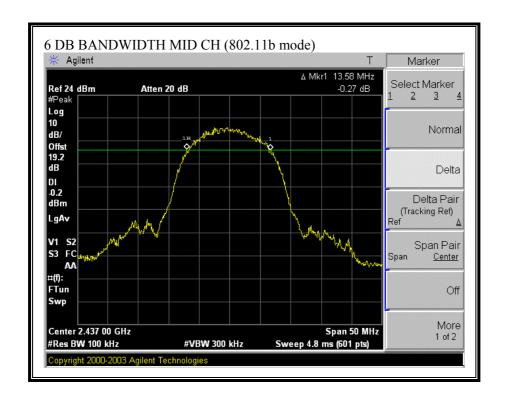
Channel	Frequency	6 dB Bandwidth	Minimum Limit	Margin
	(MHz)	(kHz)	(kHz)	(kHz)
Low	2412	16420	500	15920
Middle	2437	16420	500	15920
High	2462	16500	500	16000

6 DB BANDWIDTH (802.11b MODE)

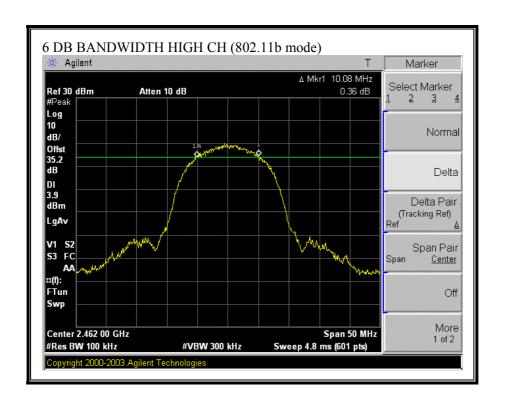


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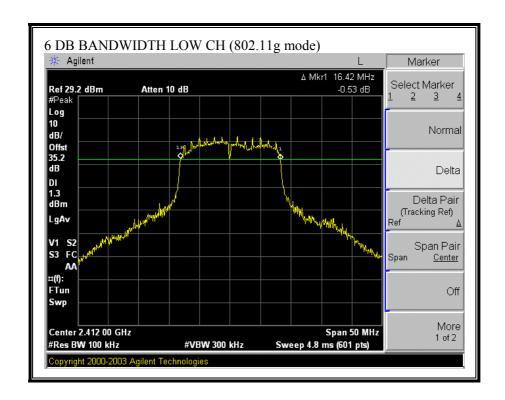


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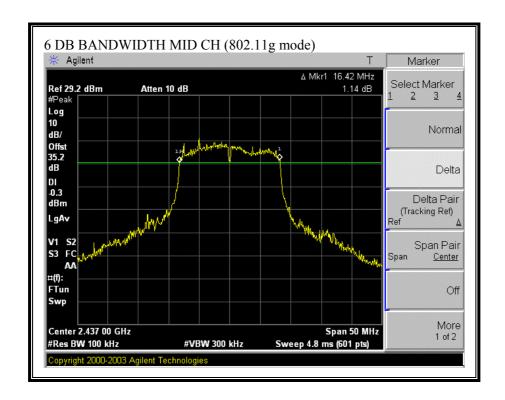


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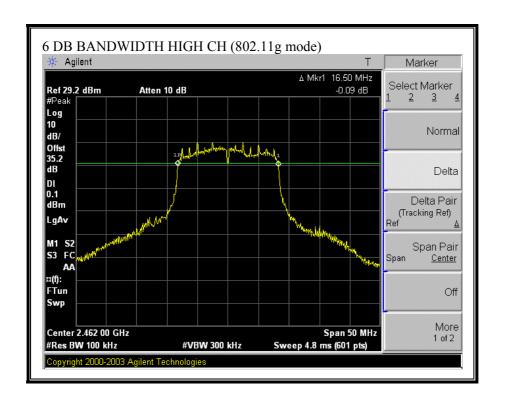
6 DB BANDWIDTH (802.11g MODE)



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7.2. PEAK OUTPUT POWER

PEAK POWER LIMIT

§15.247 (b) The maximum peak output power of the intentional radiator shall not exceed the following:

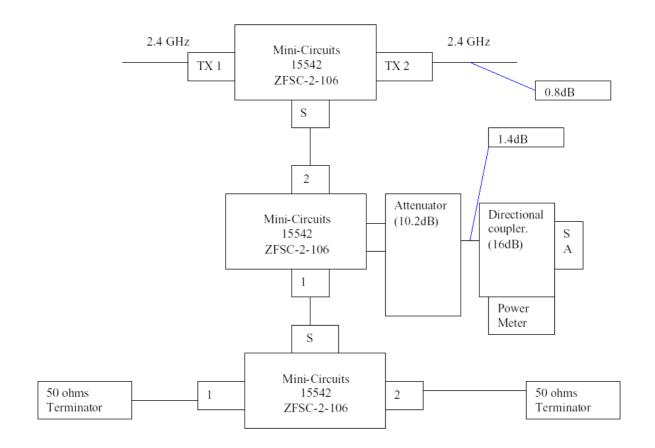
\$15.247 (b) (3) For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz , and 5725-5850 MHz bands: 1 watt.

§15.247 (b) (4) Except as shown in paragraphs (b)(4) (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.

§15.247 (b) (4) (i) Systems operating in the 2400–2483.5 MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi provided the maximum peak output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

TEST PROCEDURE

See test setup diagram below. SA channel power function was used to measure peak power.



Frequency Band	(2) Combiner loss	Pigtail Cable loss	Interconnect Cable
2.4 GHz	6.8 dB	0.8 dB	1.4 dB

Total Offset: 6.8+0.8+1.4+10.2+16=35.2 dB

RESULTS

The maximum antenna gain is 2 dBi for other than fixed, point-to-point operations, therefore the limit is 30 dBm.

802.11b Mode / 1Mbps/ Both TX chains via Combiner

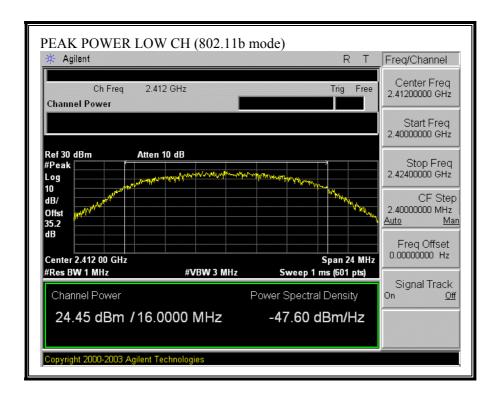
Channel	Frequency	Peak Power	Limit	Margin
	(MHz)	(dBm)	(dBm)	(dB)
Low	2412	24.45	30	-5.55
Middle	2437	21.54	30	-8.46
High	2462	20.82	30	-9.18

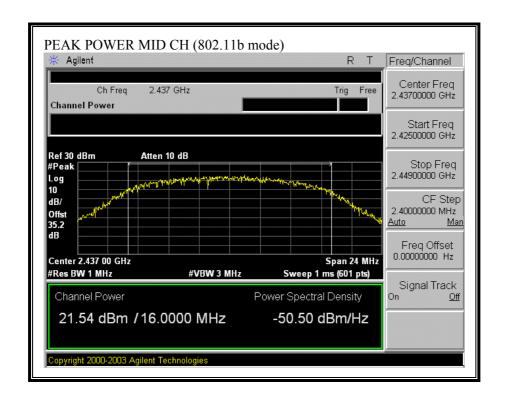
802.11g Mode/ 6 Mbps / Both TX chains via Combiner

Channel	Frequency	Peak Power	Limit	Margin
	(MHz)	(dBm)	(dBm)	(dB)
Low	2412	29.20	30	-0.80
Middle	2437	27.60	30	-2.40
High	2462	26.78	30	-3.22

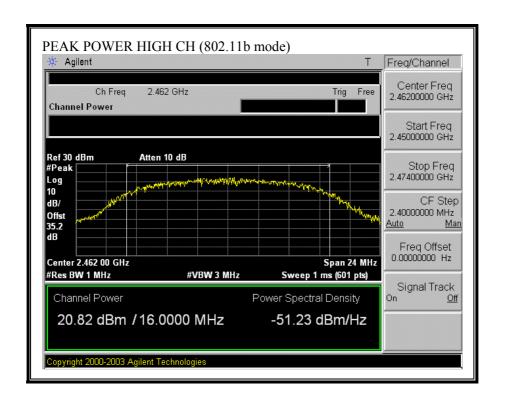
No non-compliance noted:

OUTPUT POWER (802.11b MODE)



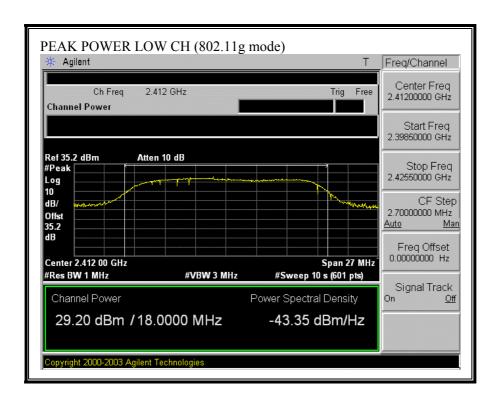


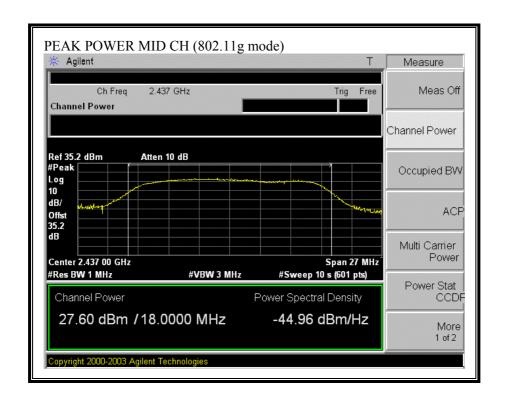
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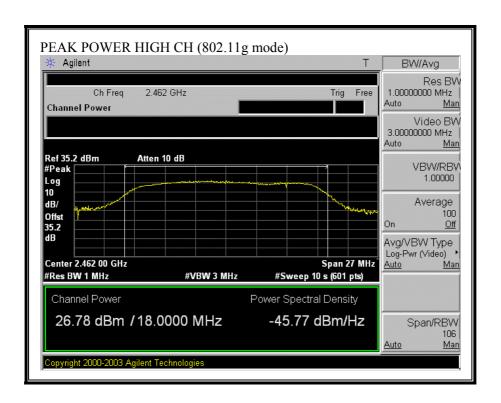
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OUTPUT POWER (802.11g MODE)





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7.3. AVERAGE POWER

AVERAGE POWER LIMIT

None; for reporting purposes only.

TEST PROCEDURE

The transmitter output is connected to a power meter.

RESULTS

No non-compliance noted:

The cable assembly insertion loss of 19.2 dB (including 10.2 dB pad and 9.dB cable/combiner/pigtail) was entered as an offset in the power meter to allow for direct reading of power.

802.11b Mode/ 1Mbps/Combined power on both TX chains

Channel	Frequency	Power	SW Gain
	(MHz)	(dBm)	Setting
Low	2412	18.79	38
Middle	2437	16.67	41
High	2462	15.97	45

802.11g Mode/ 6 Mbps / Combined power on both TX chains

Channel	Frequency	Power	SW Gain
	(MHz)	(dBm)	Setting
Low	2412	19.92	53
Middle	2437	18.28	53
High	2462	17.39	56

7.4. PEAK POWER SPECTRAL DENSITY

LIMIT

§15.247 (d) For direct sequence systems, the peak 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.

TEST PROCEDURE

The transmitter output is connected to a spectrum analyzer, the maximum level in a 3 kHz bandwidth is measured with the spectrum analyzer using RBW = 3 kHz and VBW > 3 kHz, sweep time = span / 3 kHz, and video averaging is turned off. The PPSD is the highest level found across the emission in any 3 kHz band.

RESULTS

No non-compliance noted:

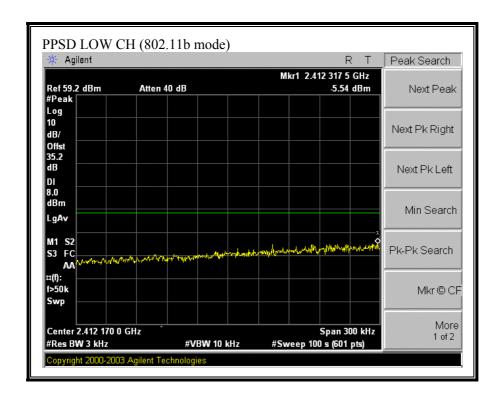
802.11b Mode

Channel	Frequency	PPSD	Limit	Margin
	(MHz)	(dBm)	(dBm)	(dB)
Low	2412	-5.54	8	-13.54
Middle	2437	-3.65	8	-11.65
High	2462	-3.40	8	-11.40

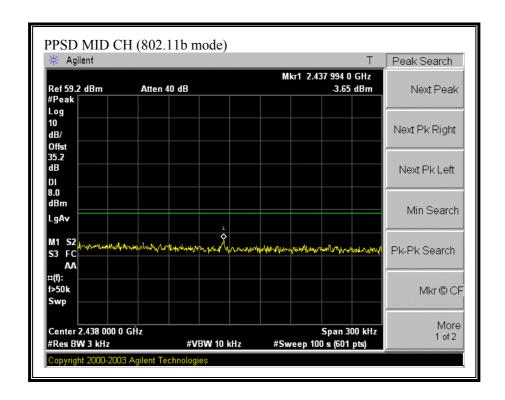
802.11g Mode

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
Low	2412	-1.99	8	-9.99
Middle	2437	-3.28	8	-11.28
High	2462	-4.34	8	-12.34

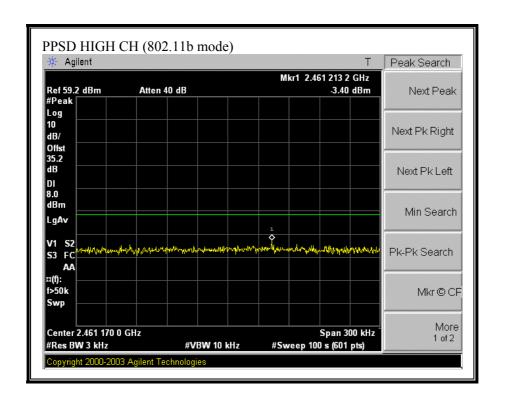
PEAK POWER SPECTRAL DENSITY (802.11b MODE)



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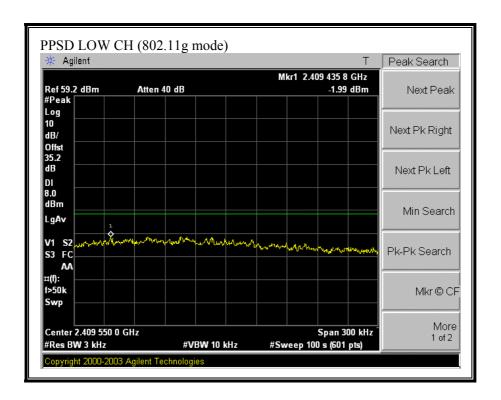


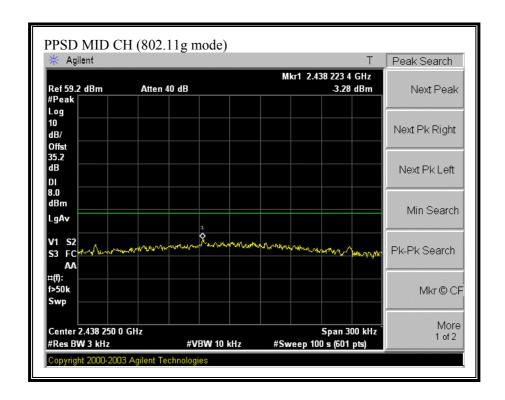
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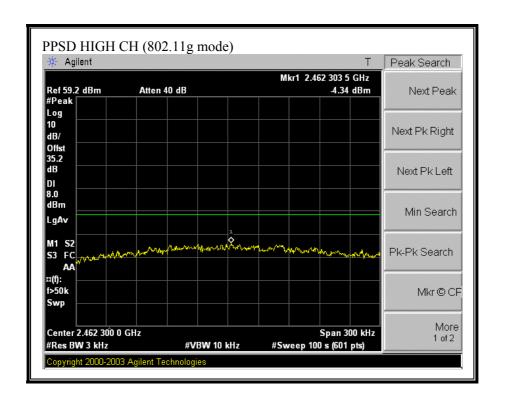
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PEAK POWER SPECTRAL DENSITY (802.11g MODE)





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7.5. CONDUCTED SPURIOUS EMISSIONS

LIMITS

§15.247 (c) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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 §15.209(a) is not required. 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 §15.205(c)).

TEST PROCEDURE

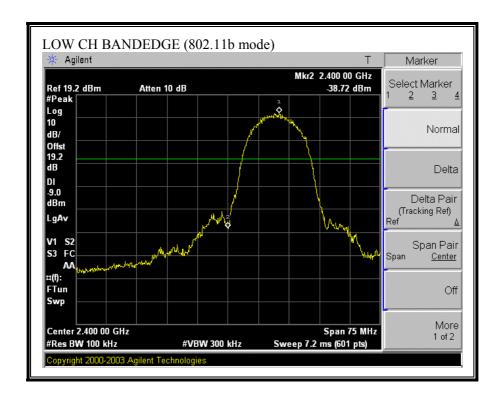
The transmitter output is connected to a spectrum analyzer. The resolution bandwidth is set to 100 kHz. The video bandwidth is set to 300 kHz.

The spectrum from 30 MHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels.

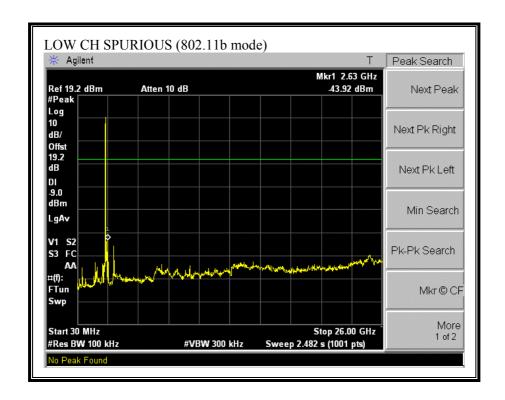
RESULTS

No non-compliance noted:

SPURIOUS EMISSIONS, LOW CHANNEL (802.11b MODE)

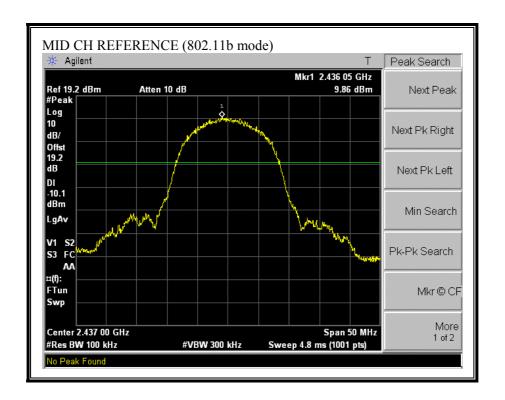


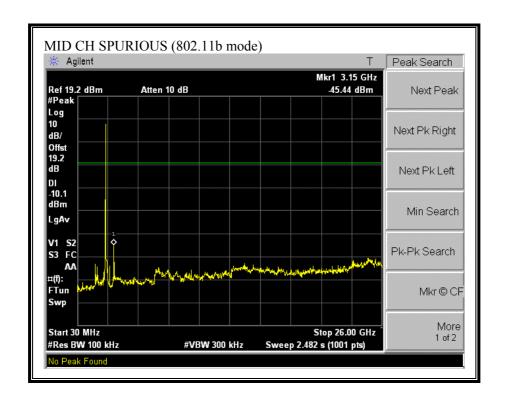
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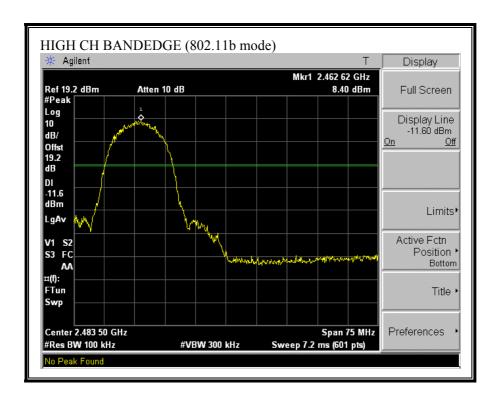
SPURIOUS EMISSIONS, MID CHANNEL (802.11b MODE)

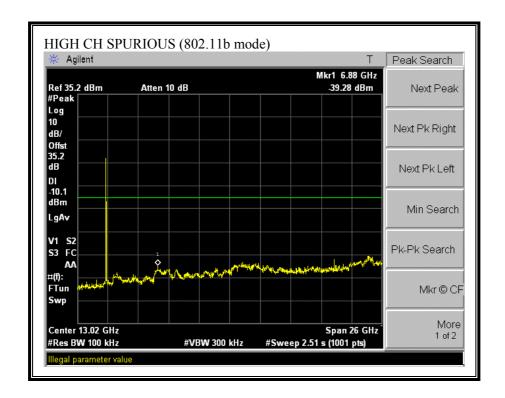




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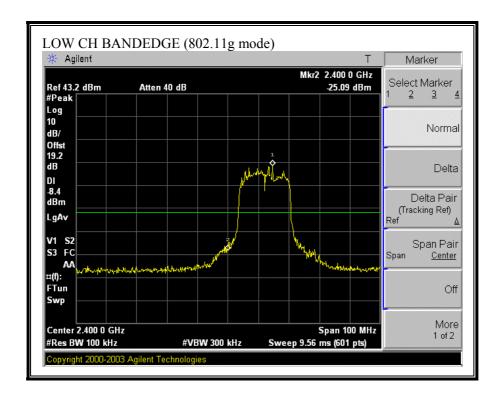
SPURIOUS EMISSIONS, HIGH CHANNEL (802.11b MODE)



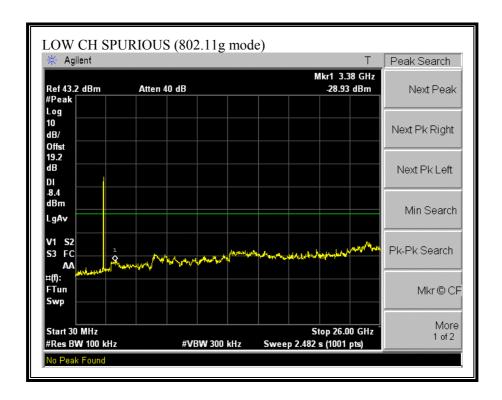


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SPURIOUS EMISSIONS, LOW CHANNEL (802.11g MODE)

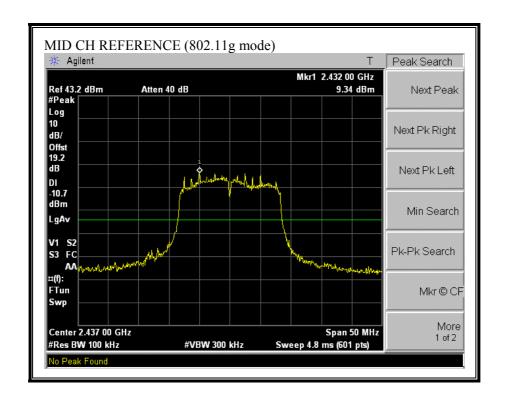


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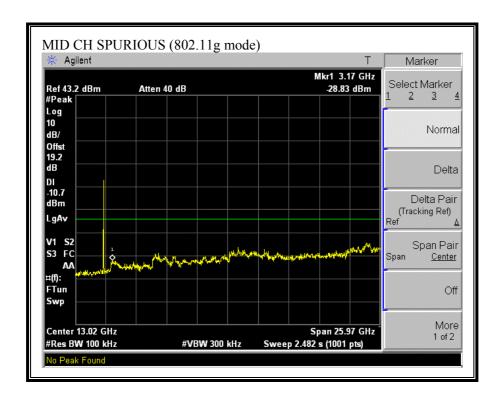


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SPURIOUS EMISSIONS, MID CHANNEL (802.11g MODE)

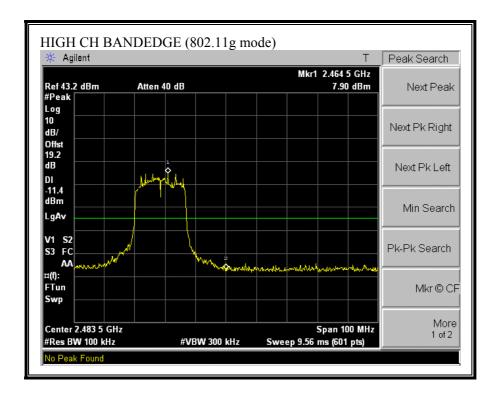


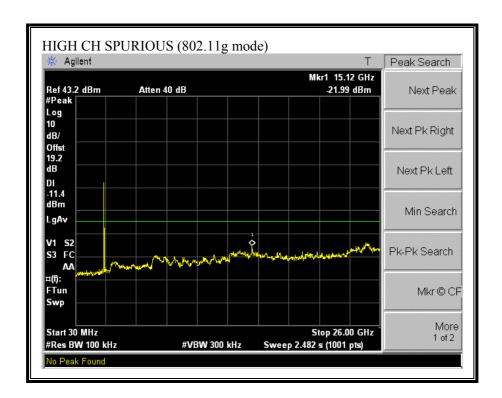
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SPURIOUS EMISSIONS, HIGH CHANNEL (802.11g MODE)





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7.6. RADIATED EMISSIONS

7.6.1. TRANSMITTER RADIATED SPURIOUS EMISSIONS

LIMITS

§15.205 (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
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	$\binom{2}{}$
13.36 - 13.41			

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

§15.205 (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.

² Above 38.6

§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 (microvolts/meter)	Measurement Distance (meters)				
30 - 88	100 **	3				
88 - 216	150 **	3				
216 - 960	200 **	3				
Above 960	500	3				

^{**} 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.

§15.209 (b) In the emission table above, the tighter limit applies at the band edges.

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.4. The EUT is set to transmit in a continuous mode.

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

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

The spectrum from 30 MHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels.

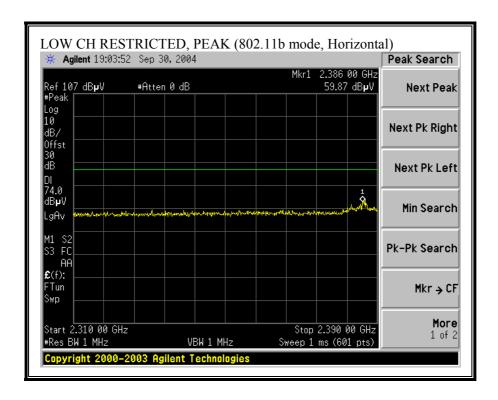
The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

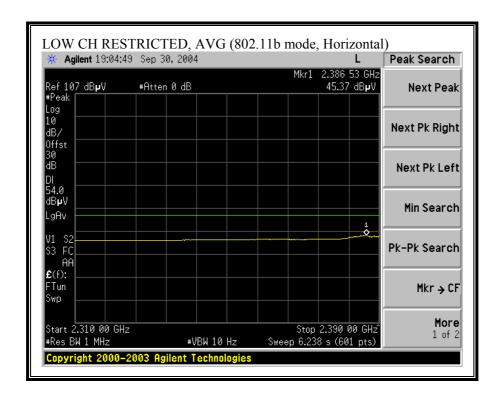
RESULTS

No non-compliance noted:

7.6.2. TRANSMITTER RADIATED EMISSIONS ABOVE 1 GHZ

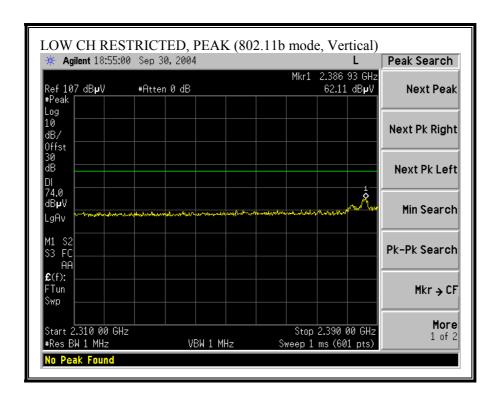
RESTRICTED BANDEDGE (b MODE, LOW CHANNEL, HORIZONTAL)

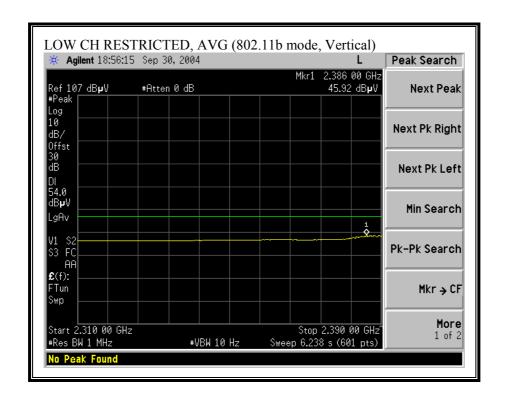




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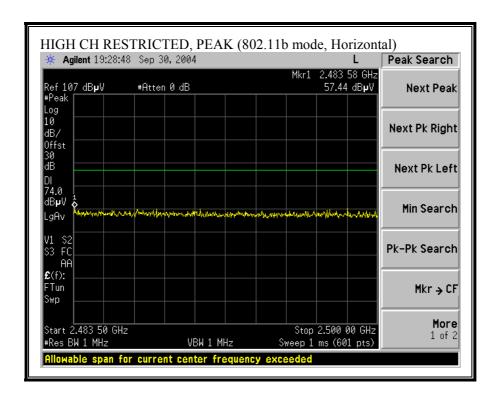
RESTRICTED BANDEDGE (b MODE, LOW CHANNEL, VERTICAL)

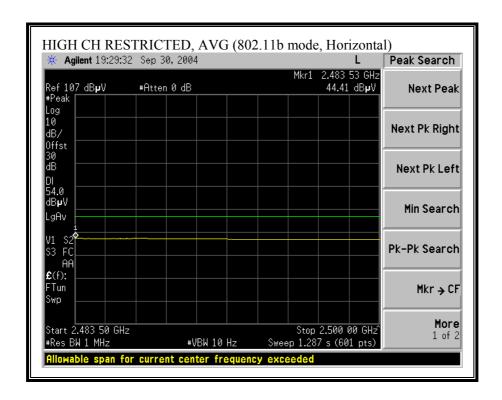




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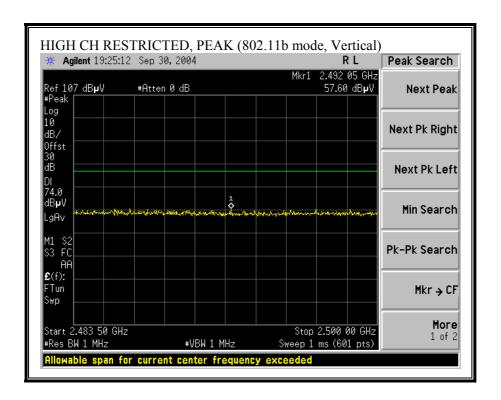
RESTRICTED BANDEDGE (b MODE, HIGH CHANNEL, HORIZONTAL)

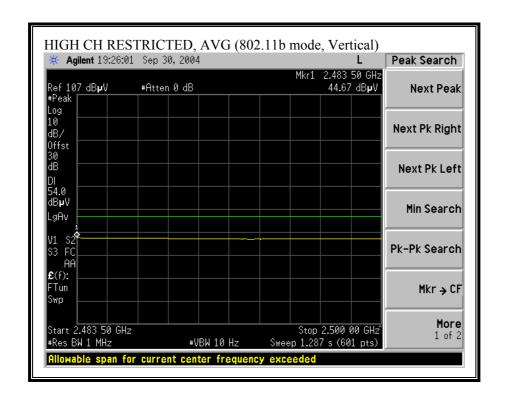




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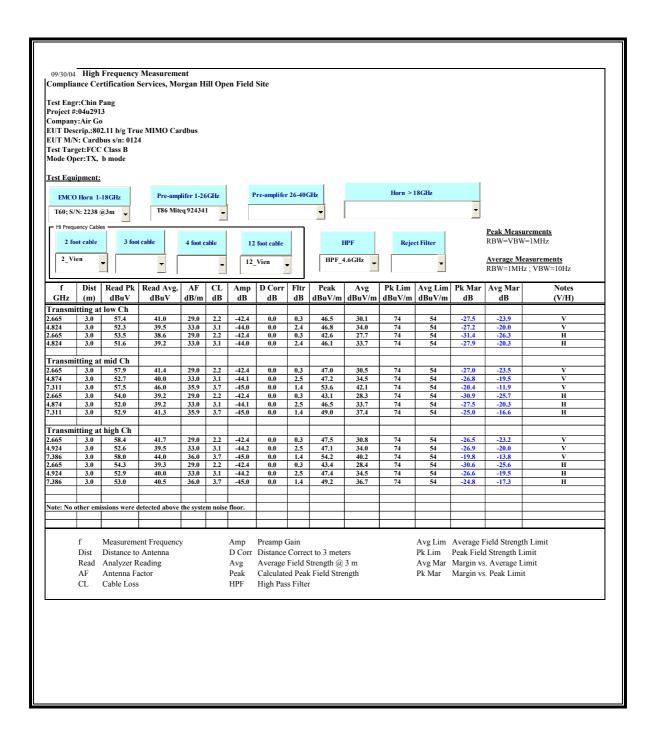
RESTRICTED BANDEDGE (b MODE, HIGH CHANNEL, VERTICAL)





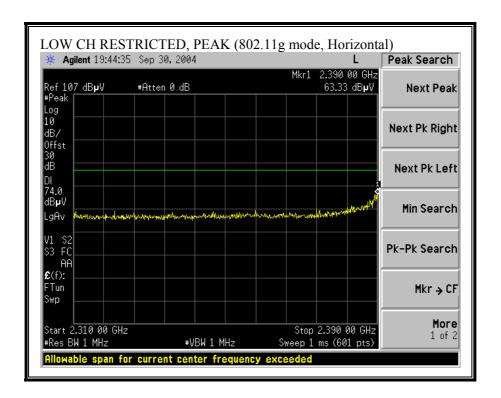
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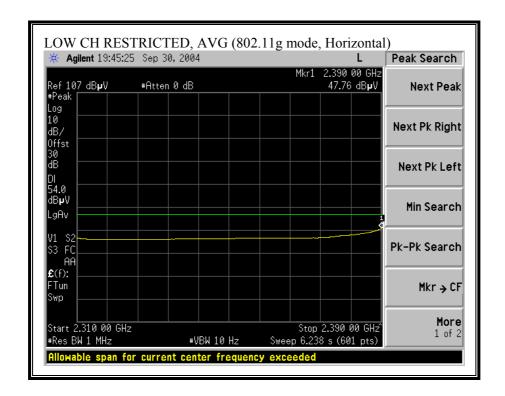
HARMONICS AND SPURIOUS EMISSIONS (b MODE)



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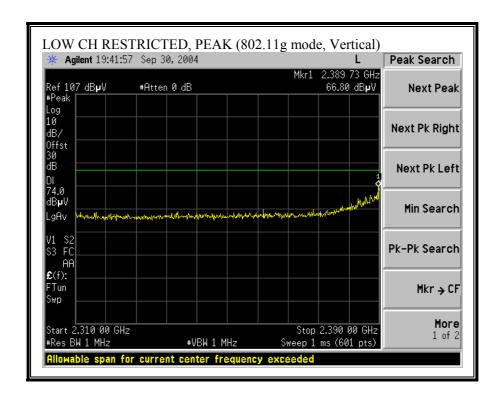
RESTRICTED BANDEDGE (g MODE, LOW CHANNEL, HORIZONTAL)



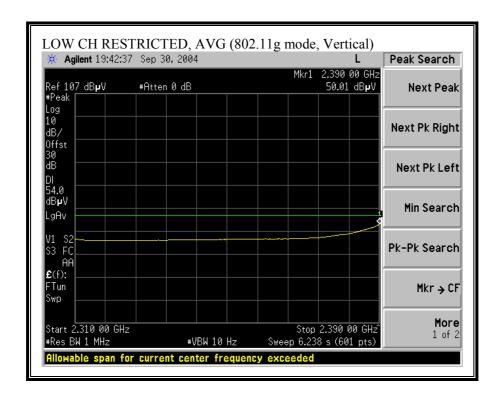


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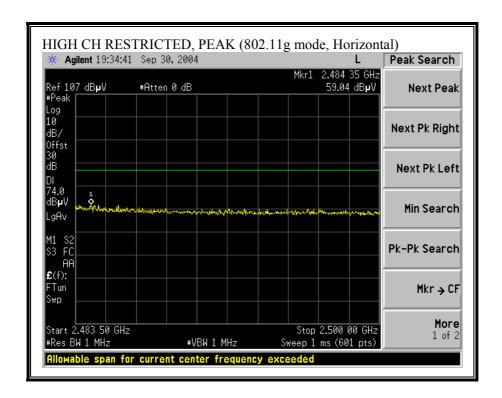
RESTRICTED BANDEDGE (g MODE, LOW CHANNEL, VERTICAL)

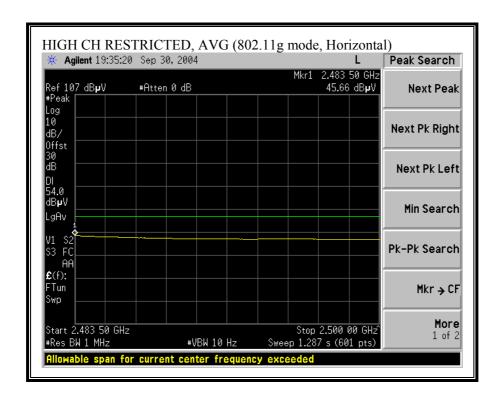


revision section of the document.



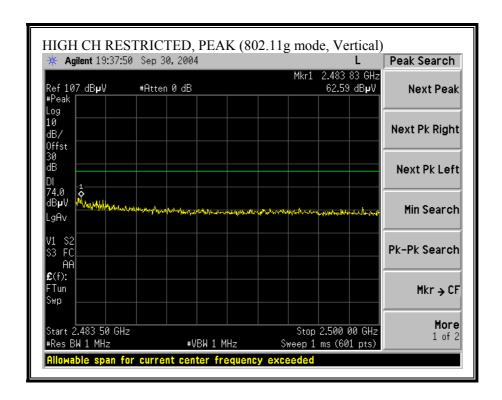
RESTRICTED BANDEDGE (g MODE, HIGH CHANNEL, HORIZONTAL)

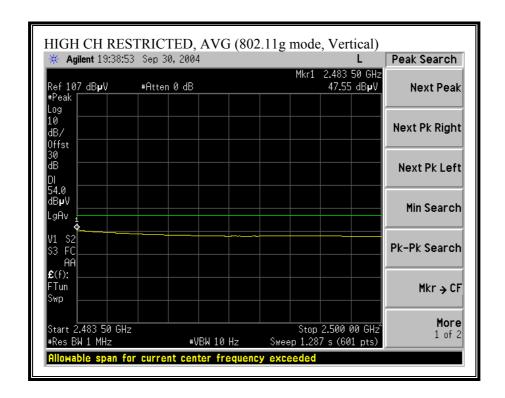




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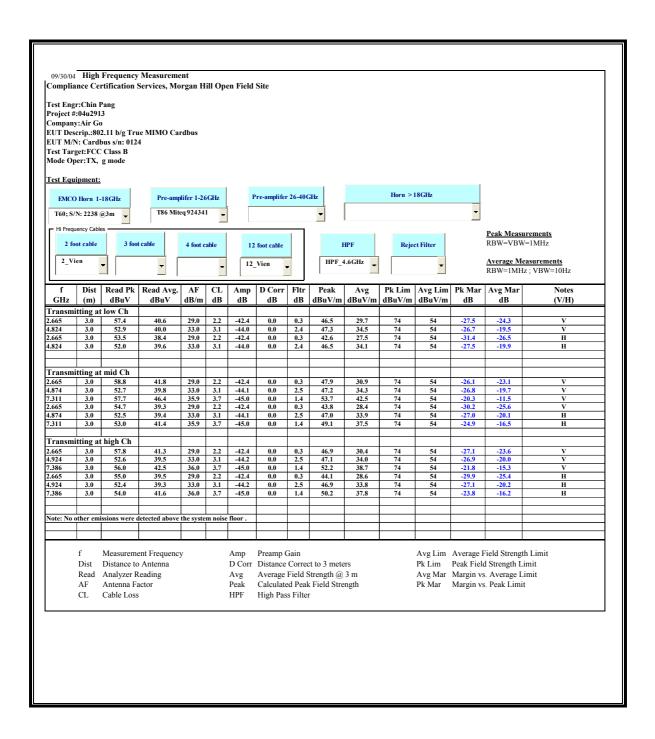
RESTRICTED BANDEDGE (g MODE, HIGH CHANNEL, VERTICAL)





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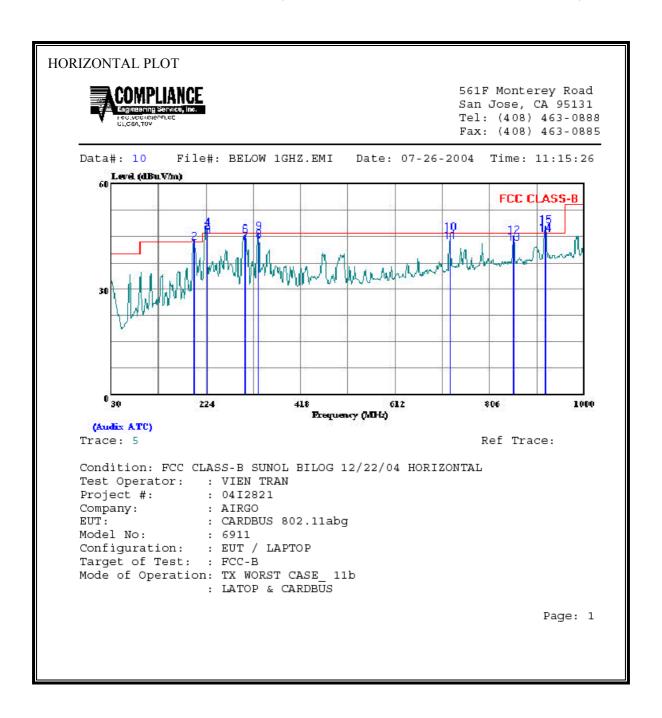
HARMONICS AND SPURIOUS EMISSIONS (g MODE)



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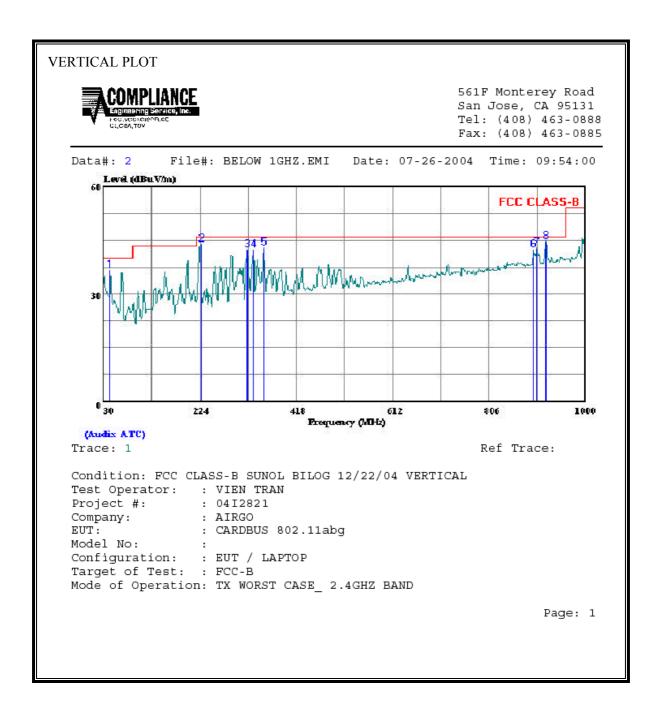
WORST-CASE RADIATED EMISSIONS BELOW 1 GHz

SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, HORIZONTAL)



HORIZONTAL DATA								
Freq	Remark	Read Level F	actor		Limit Line	Over Limit		
MHz		dBuV	dB	lBuV/m d	BuV/m	dB		
1 198.780 2 198.780 3 225.940 4 * 225.940 5 225.940 6 305.480 7 305.480	Peak QP Peak QP Peak	27.79 29.79 32.05 34.25 32.00 29.46 27.46		47.36 45.07 45.49	43.50 46.00 46.00 46.00	-0.88 1.36 -0.93		
8 332.640 9 * 332.640 10 725.490 11 725.490 12 856.440 13 856.440 14 921.430 15 * 921.430	QP Peak Peak QP Peak QP Peak QP	27.40 29.64 21.71 19.50 19.66 17.46 19.03 21.23	16.54 16.54 24.23 24.22 25.55 25.53 26.63	43.94 46.18 45.94 43.72 45.21 42.99 45.66	46.00 46.00 46.00 46.00 46.00 46.00	-2.06 0.18 -0.06 -2.28 -0.79 -3.01		

SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, VERTICAL)



VEDTICA	LDATA							
VERTICA	L DATA		Read			Limit	Over	
	Freq	Remark	Level F	actor	Level			
	MHz		dBuV	dB	dBuV/m	dBuV/m	dB	
	43 500	D = = l=	22.06	10.50	36.64	40.00	2.26	
1 2	43.580 225.940		23.06 30.80	13.58				
3	320.030		26.04	13.11 16.23				
4	332.640			16.23				
5	352.040				42.29			
6	895.240			26.12				
7	902.030				42.99		-3.01	
8	921.430							

7.7. POWERLINE CONDUCTED EMISSIONS

LIMIT

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

The lower limit applies at the boundary between the frequency ranges.

Frequency of Emission (MHz)	Conducted I	Conducted Limit (dBuV)			
	Quasi-peak	Average			
0.15-0.5	66 to 56 °	56 to 46 *			
0.5-5	56	46			
5-30	60	50			

Decreases with the logarithm of the frequency.

TEST PROCEDURE

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.4.

The resolution bandwidth is set to 9 kHz for both peak detection and quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

Line conducted data is recorded for both NEUTRAL and HOT lines.

RESULTS

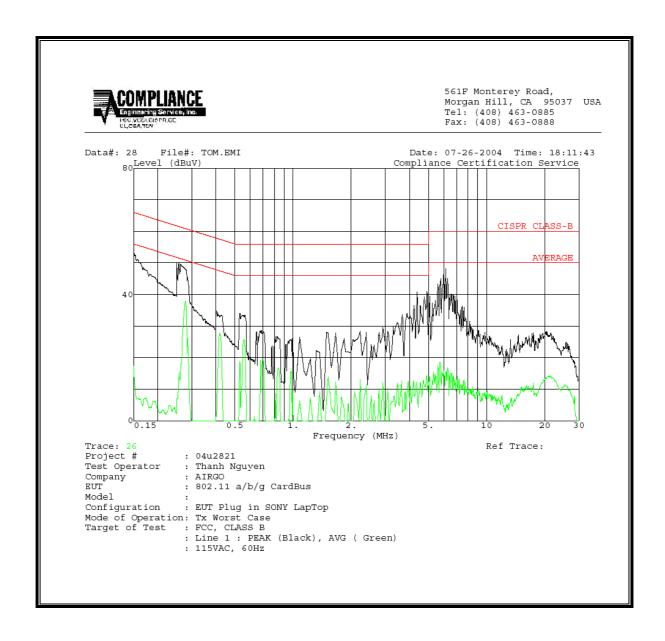
No non-compliance noted:

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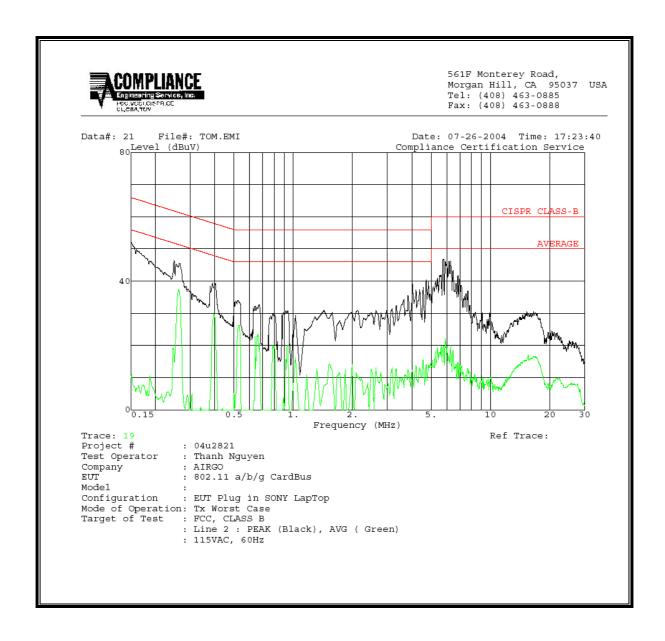
6 WORST EMISSIONS

CONDUCTED EMISSIONS DATA (115VAC 60Hz)									
Freq.	Reading			Closs	Limit	EN_B	Margin		Remark
(MHz)	PK (dBuV)	PK (dBuV) QP (dBuV) AV (dBuV)		(dB)	B) QP AV QP (dB) AV		AV (dB)	L1 / L2	
0.15	54.70		17.33	0.00	66.00	56.00	-11.30	-38.67	L1
0.26	50.04		37.84	0.00	62.91	52.91	-12.87	-15.07	L1
6.15	48.14		16.74	0.00	60.00	50.00	-11.86	-33.26	L1
0.15	52.24		10.89	0.00	66.00	56.00	-13.76	-45.11	L2
5.74	46.66		22.17	0.00	60.00	50.00	-13.34	-27.83	L2
0.25	46.60		37.26	0.00	63.20	53.20	-16.60	-15.94	L2
6 Worst I	 Data 								

LINE 1 RESULTS

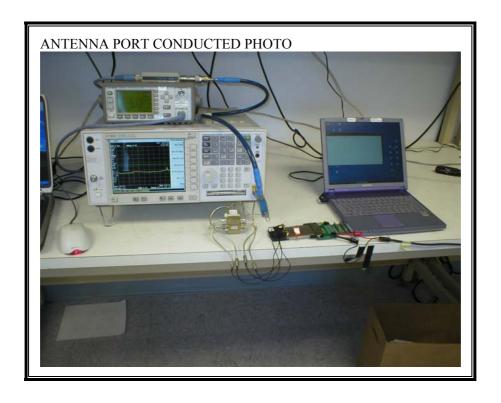


LINE 2 RESULTS



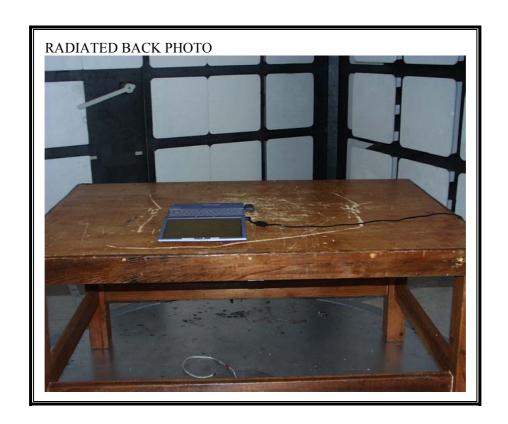
8. SETUP PHOTOS

ANTENNA PORT CONDUCTED RF MEASUREMENT SETUP

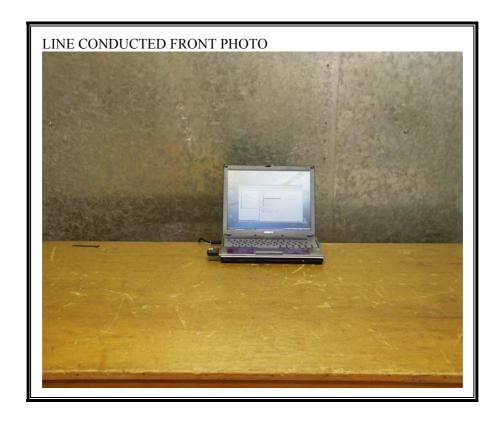


RADIATED RF MEASUREMENT SETUP





POWERLINE CONDUCTED EMISSIONS MEASUREMENT SETUP





END OF REPORT