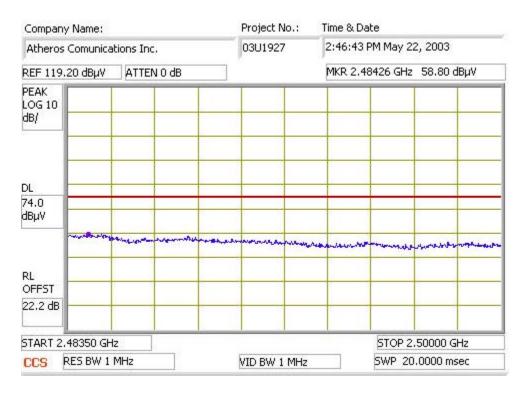
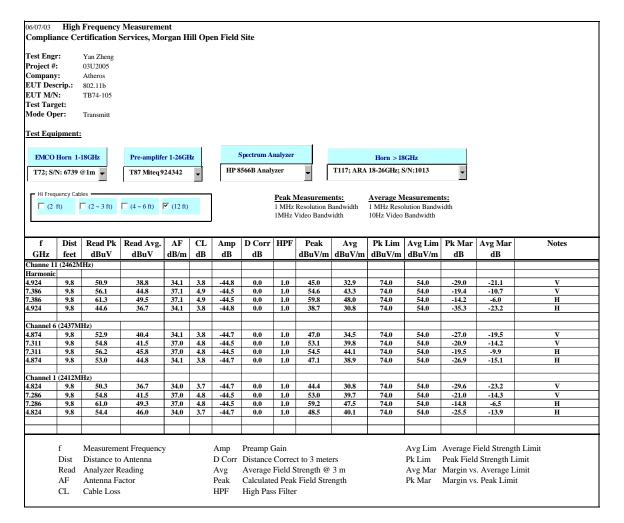


RESTRICTED BANDEDGE (b NORMAL MODE, HIGH CHANNEL, VERTICAL)

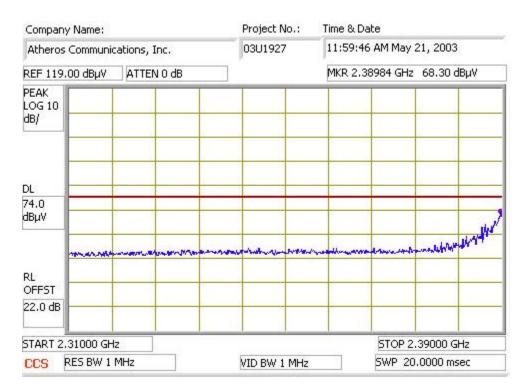


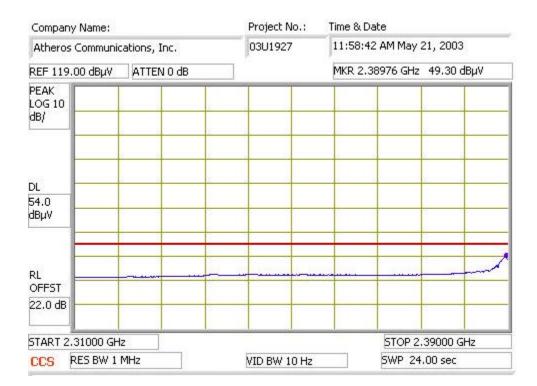


HARMONICS AND SPURIOUS EMISSIONS (b MODE)

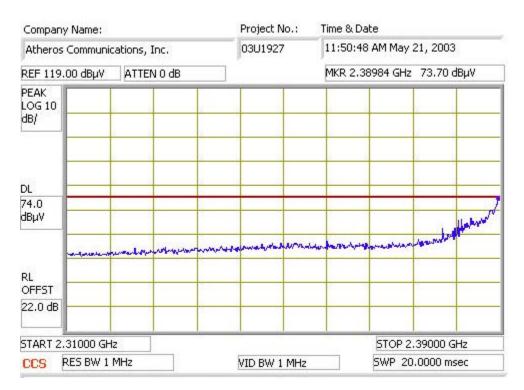


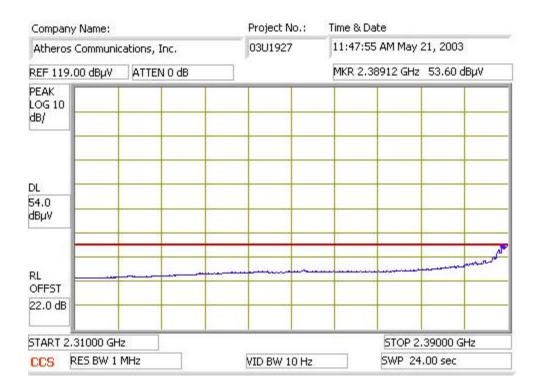
RESTRICTED BANDEDGE (g MODE, LOW CHANNEL, HORIZONTAL)



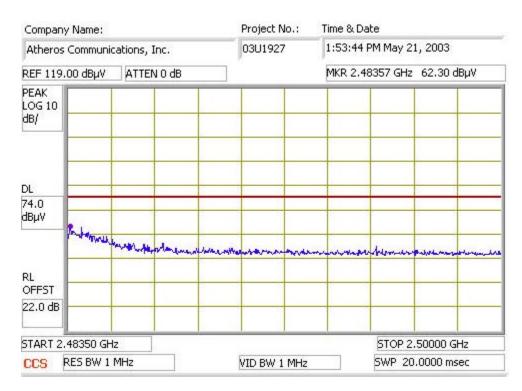


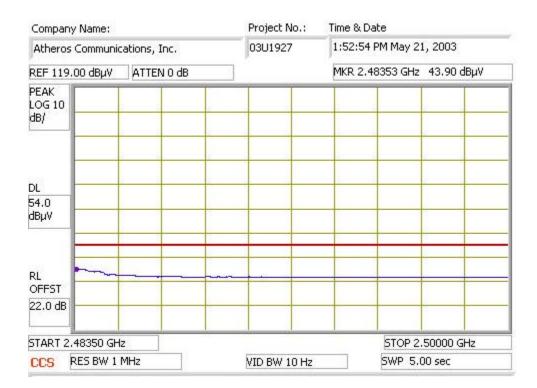
RESTRICTED BANDEDGE (g MODE, LOW CHANNEL, VERTICAL)



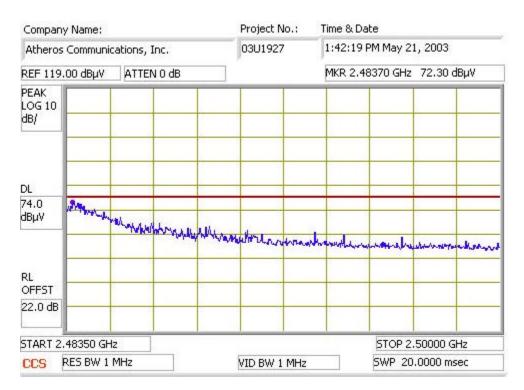


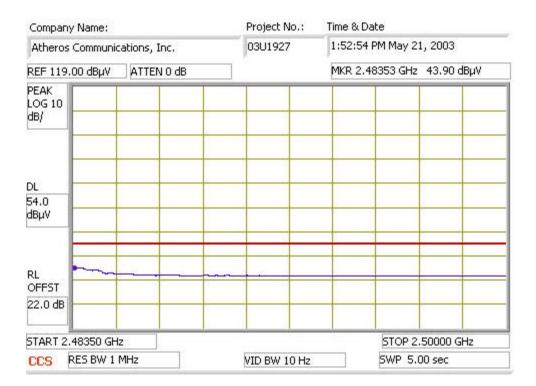
RESTRICTED BANDEDGE (g MODE, HIGH CHANNEL, HORIZONTAL)



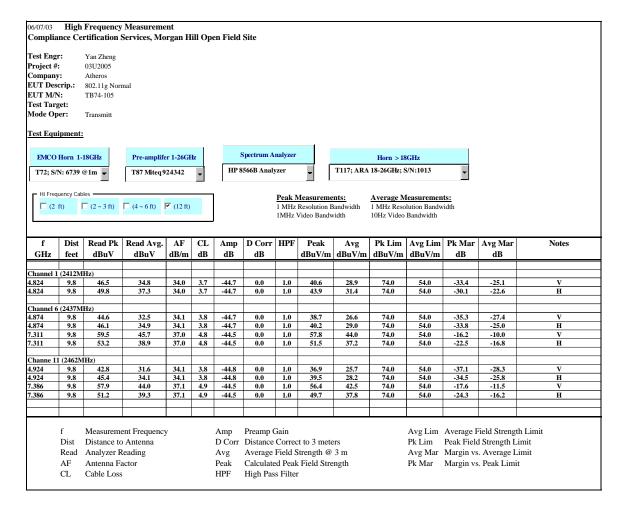


RESTRICTED BANDEDGE (g MODE, HIGH CHANNEL, VERTICAL)

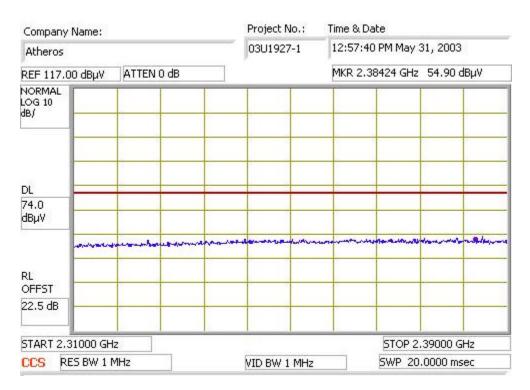


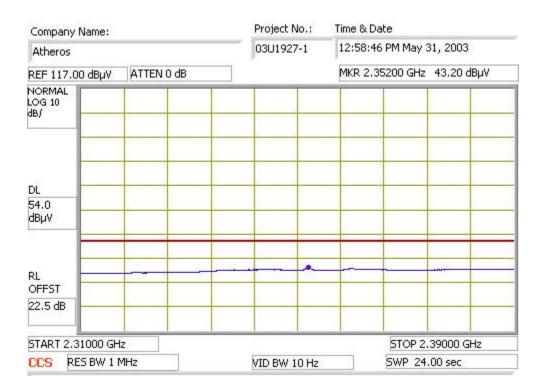


HARMONICS AND SPURIOUS EMISSIONS (g NORMAL MODE)

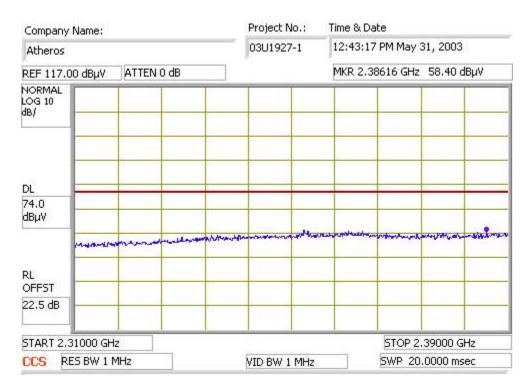


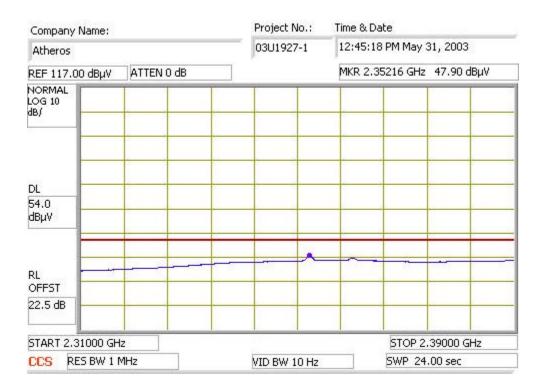
LOW RESTRICTED BANDEDGE (g TURBO MODE, HORIZONTAL)



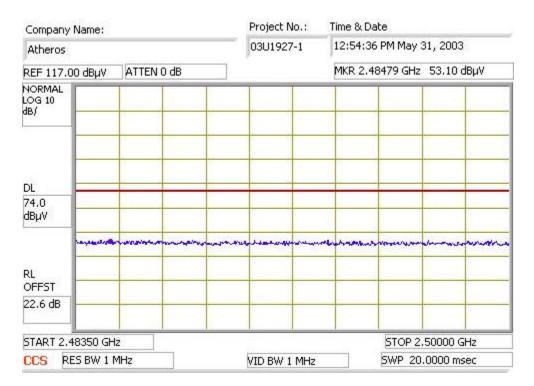


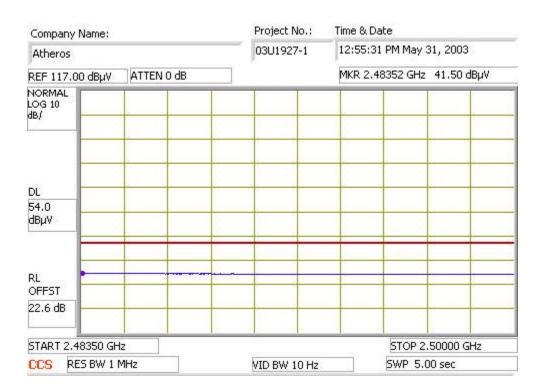
LOW RESTRICTED BANDEDGE (g TURBO MODE, VERTICAL)



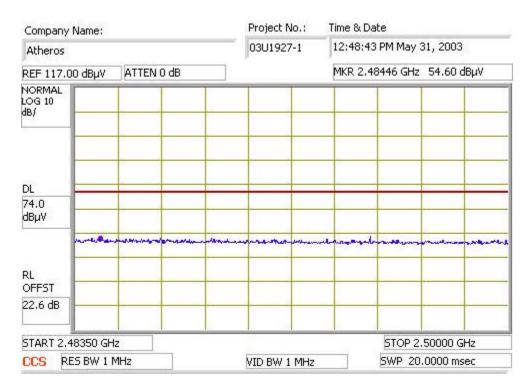


HIGH RESTRICTED BANDEDGE (g TURBO MODE, HORIZONTAL)



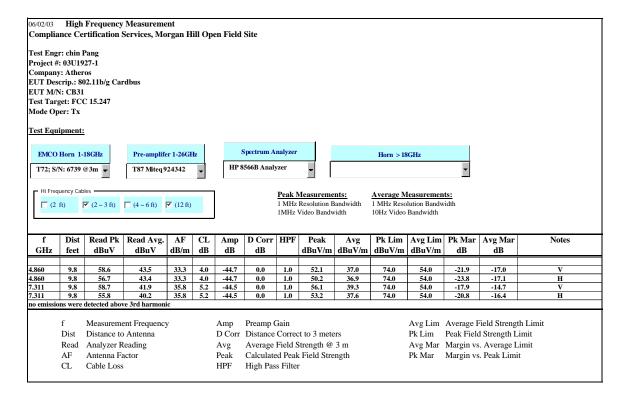


HIGH RESTRICTED BANDEDGE (g TURBO MODE, VERTICAL)

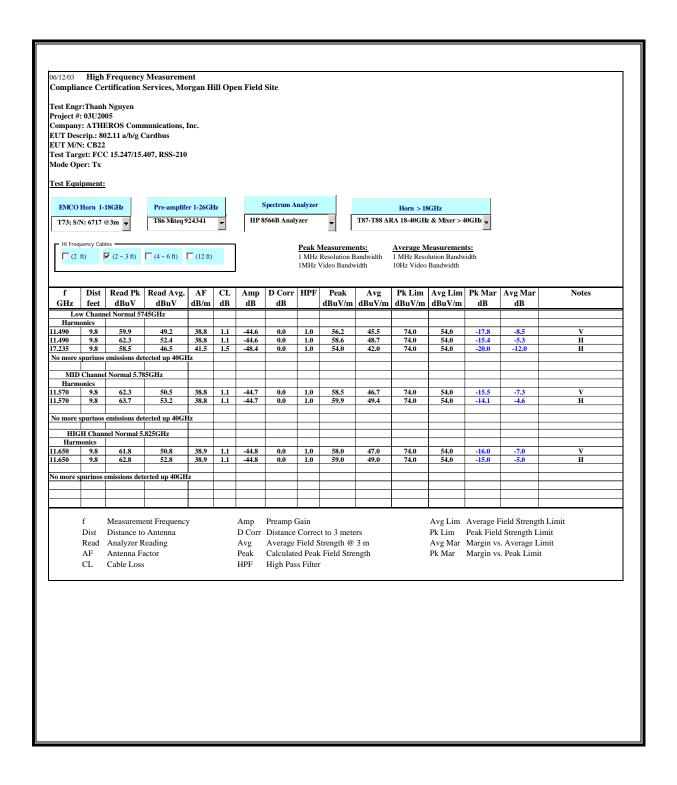


Company Name:		Project No.:	Project No.: Time & Date					
Atheros		03U1927-1	12:49:4	12:49:43 PM May 31, 2003				
REF 117.00 dBμV	ATTEN 0 dB		MKR 2.48350 GHz 42.20 dBµV					
NORMAL LOG 10 IB/								
DL 54.0 dΒμV								
RL DFFST								
22.6 dB								
START 2.48350 GHz				STOP 2.50000 GHz				
CCS RES BW 1 MHz		VID BW 10 Hz		SWP 5.00 sec				

HARMONICS AND SPURIOUS EMISSIONS (g TURBO MODE)



HARMONICS AND SPURIOUS EMISSIONS (a NORMAL MODE)

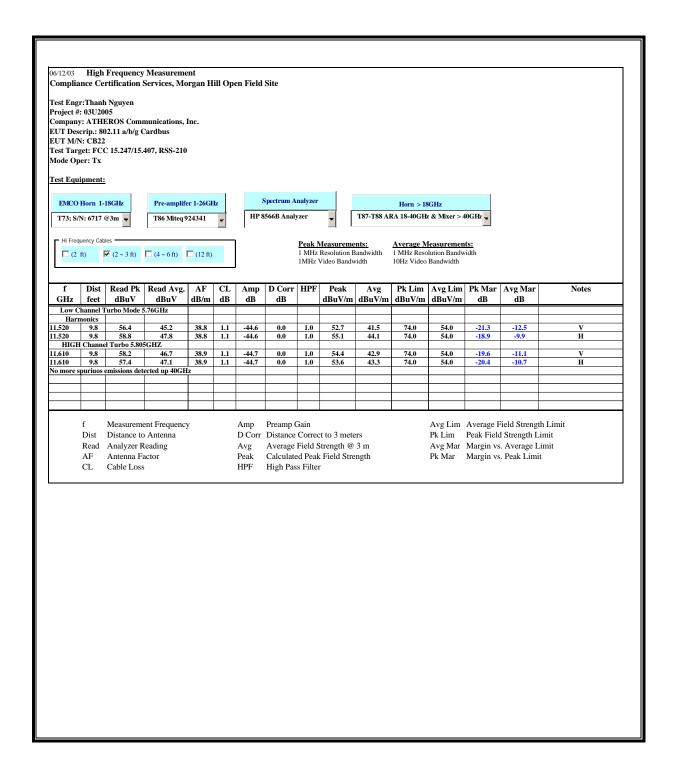


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DOCUMENT NO: CCSUP4031A

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HARMONICS AND SPURIOUS EMISSIONS (a TURBO MODE)

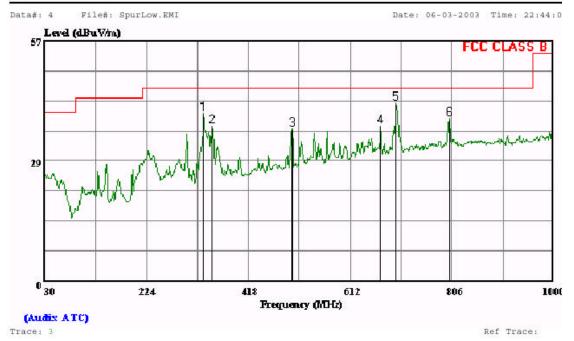


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SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION)



561F Monterey Road Morgan Hill, CA 95037, U.S.; Tel: (408) 463-0885 Fax:(408) 463-0888



Condition: FCC CLASS B 3m CHAMBER 030306 1185 VERTICAL

Company : ATHEROS COMMUNICATIONS, INC.

EUT Description : 802.11a/b/g Cardbus

Model Number : CB32

Test Configurtion: EUT plugin the Laptop

Test Target : FCC CLASS-B Mode of Operation: Tx Worst case

Project No : 03U2005-1

: 30MHz-1GHz Vertical Antenna

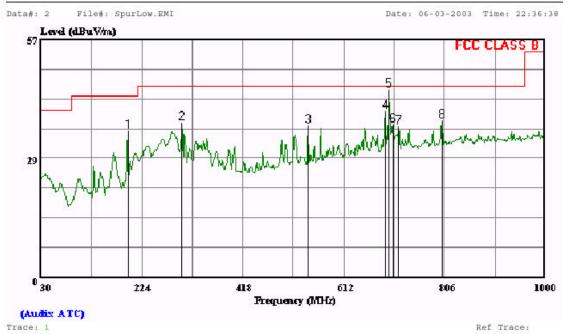
								P	age: 1
	Freq	Read Level	Probe Pactor		Preamp Factor		Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dВ	dB	dBuV/m	dBuV/m	dB	
1	332.640	24.94	12.91	1.87	0.00	39.72	46.00	-6.28	Peak
2	349.130	21.67	13.31	1.87	0.00	36.85	46.00	-9.15	Peak
3	502.390	17.14	16.57	2.31	0.00	36.02	46.00	-9.98	Peak
4	669.230	15.65	18.30	2.71	0.00	36.66	46.00	-9.34	Peak
5	698.330	20.89	18.54	2.78	0.00	42.21	46.00	-3.79	Peak
6	800 100	1E 70	10 00	2 02	0.00	20 E0	46 00	7 42	Dook

DOCUMENT NO: CCSUP4031A TEL: (408) 463-0885 FAX: (408) 463-0888

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561F Monterey Road Morgan Hill, CA 95037, U.S.A. Tel: (408) 463-0885 Fax:(408) 463-0888



Condition: FCC CLASS B 3m CHAMBER 030306 1185 HORIZONTAL

Company : ATHEROS COMMUNICATIONS, INC.

EUT Description : 802.11a/b/g Cardbus

Model Number : CB32

Test Configurtion: BUT plugin the Laptop

Test Target : FCC CLASS-B Mode of Operation: Tx Worst case Project No : 03U2005-1

: 30MHz-1GHz Horizontal Antenna

								Page: 1		
	Freq	Read Level	Probe Pactor		Preamp Factor		Limit Line	Over Limit	Remark	
	MHz	đBuV	dB	đВ	ďВ	dBuV/m	₫BuV/m	dв	-	
1	196.840	24.48	9.11	1.36	0.00	34.95	43.50	-8.55	Peak	
2	300.630	23.31	12.06	1.71	0.00	37.08	46.00	-8.92	Peak	
3	543.130	16.74	17.06	2.39	0.00	36.19	46.00	-9.81	Peak	
4	691.540	18.42	18.48	2.80	0.00	39.70	46.00	-6.30	Peak	
5	698,330	23.47	18.54	2.78	0.00	44.79	46.00	-1.21	Peak	
6	706.090	15.12	18.64	2.75	0.00	36.51	46.00	-9.49	Peak	
7	717.730	14.45	18.79	2.80	0.00	36.04	46.00	-9.96	Peak	
8	800.180	14.67	19.80	3.01	0.00	37.48	46.00	-8.52	Peak	

DATE: JUNE 17, 2003 FCC ID: PPD-AR5BCB-00032

7.6. 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 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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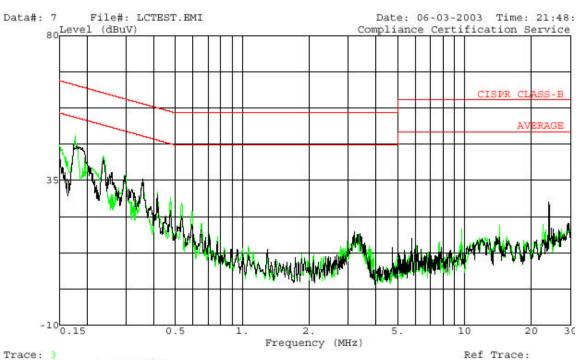
6 WORST EMISSIONS

	CONDUCTED EMISSIONS DATA (115VAC 60Hz)								
Freq.	Reading			Closs	Limit	EN_B	Margin		Remark
(MHz)	PK (dBuV)	QP (dBuV)	AV (dBuV)	(dB)	QP	AV	QP (dB)	AV(dB)	L1/L2
0.18	48.86			0.00	65.23	55.23	-16.37	-6.37	L1
24.01	27.68			0.00	60.00	50.00	-32.32	-22.32	L1
3.35	18.22			0.00	56.00	46.00	-37.78	-27.78	L1
0.17	46.12			0.00	65.31	55.31	-19.19	-9.19	L2
24.01	28.42			0.00	60.00	50.00	-31.58	-21.58	L2
3.19	19.14			0.00	56.00	46.00	-36.86	-26.86	L2
6 Worst I	 Data 								

RESULTS



561F Monterey Road, San Jose, CA 95037 Tel: (408) 463-0885 Fax: (408) 463-0888



Project # : 03U2005-1 Test Engineer : Thanh Nguyen

Company : Atheros Communications, Inc.

EUT : 802.11a/b/g Card Bus

Model : CB32 Configuration : EUT

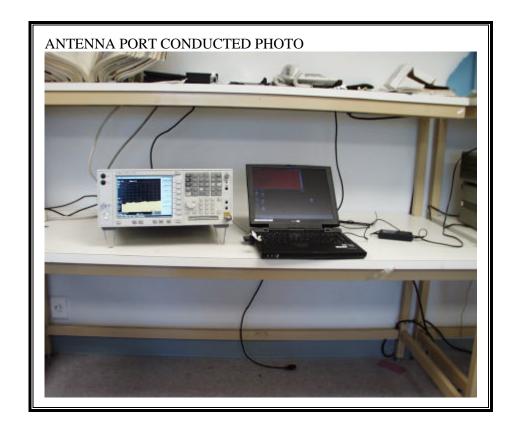
Target of Test: FCC 15.247, Class B

: 115Vac, 60Hz

: Peak , L1: (Green), L2 (Black)

8. SETUP PHOTOS

ANTENNA PORT CONDUCTED RF MEASUREMENT SETUP



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RADIATED RF MEASUREMENT SETUP



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POWERLINE CONDUCTED EMISSIONS MEASUREMENT SETUP



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END OF REPORT

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