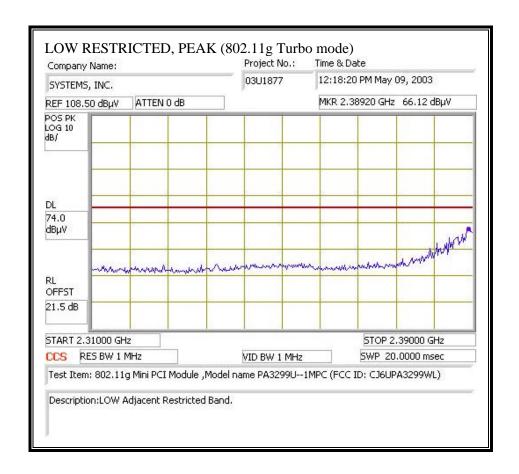
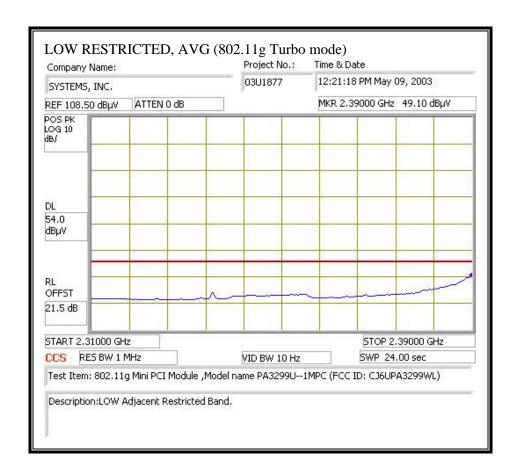
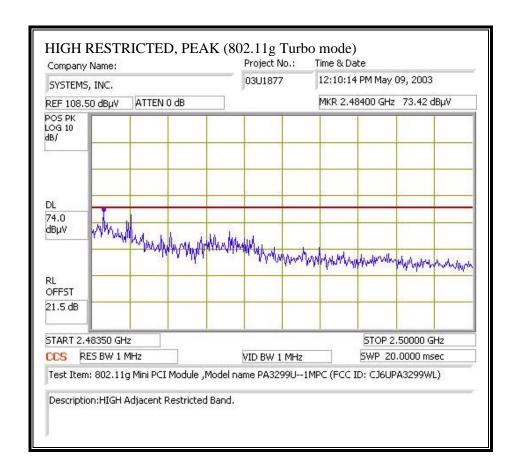
DATE: May 30, 2003

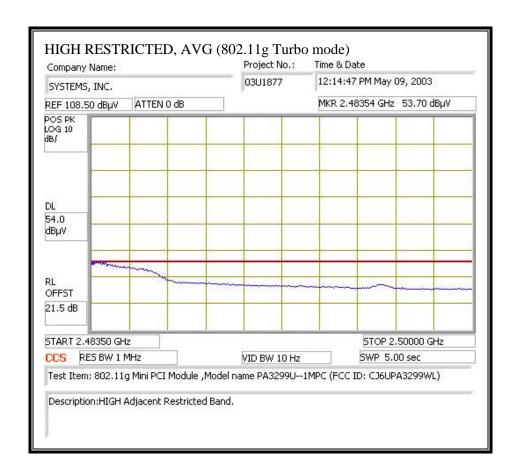
LOW RESTRICTED BANDEDGE (g TURBO MODE)





HIGH RESTRICTED BANDEDGE (g TURBO MODE)





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HARMONICS AND SPURIOUS EMISSIONS

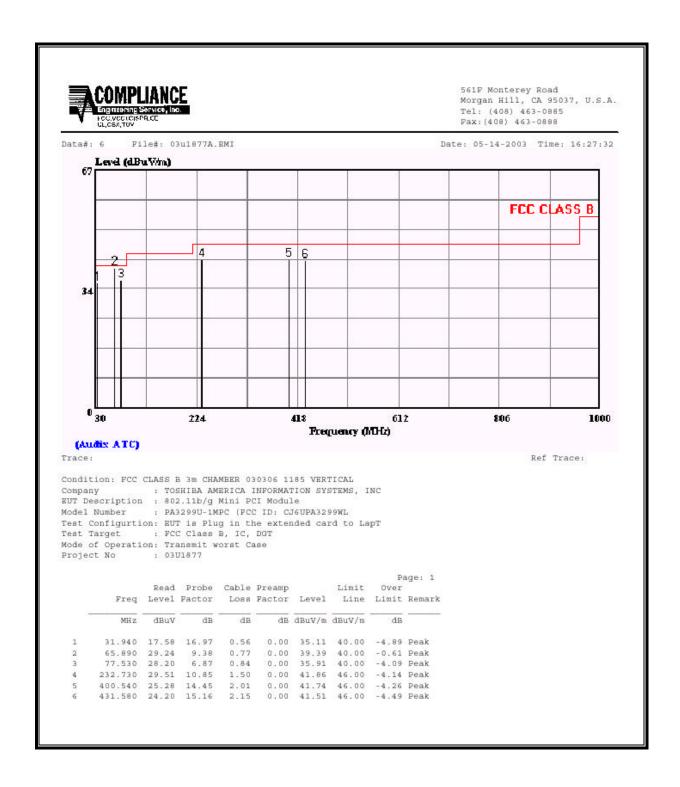
F M/N de Op t Equi	erip.: 80 I: PA32	02.11b/g Min 199U-1MPC (nsmit at LOV	RICA INFOR ni PCI Modul (FCC ID: CJo W , MID, HIC Pre-amplife T63 Miteq6	le 16UPA32 GH Char fer 1-26GH	299WL nnel,b/	g normal		analyzer		T87; ARA	Horn > 18 18-26GHz; S/				
Hi Frequ	uency Cab		☐ (4 ~ 6 ft)	▼ (12 ft)]		1 MHz	Measureme Resolution B Video Bandw	Bandwidth		leasuremen lution Bandw Bandwidth			
f Hz	Dist feet	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	HPF	Peak dRuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes
			ected up to 10th					loor	ubu v/III	ubu v/III	ubu v/III	ubu v/III	шь	ub	
purio	15 Elliss	ions was dete	cteu up to Tota		iic, abo	we the sys	lem noise n								
_															
	AF	Analyzer R Antenna Fa Cable Loss	actor			Avg Average Field Strength @ 3 m Avg Mar Margin Peak Calculated Peak Field Strength HPF High Pass Filter Avg Mar							s. Average I s. Peak Limi		

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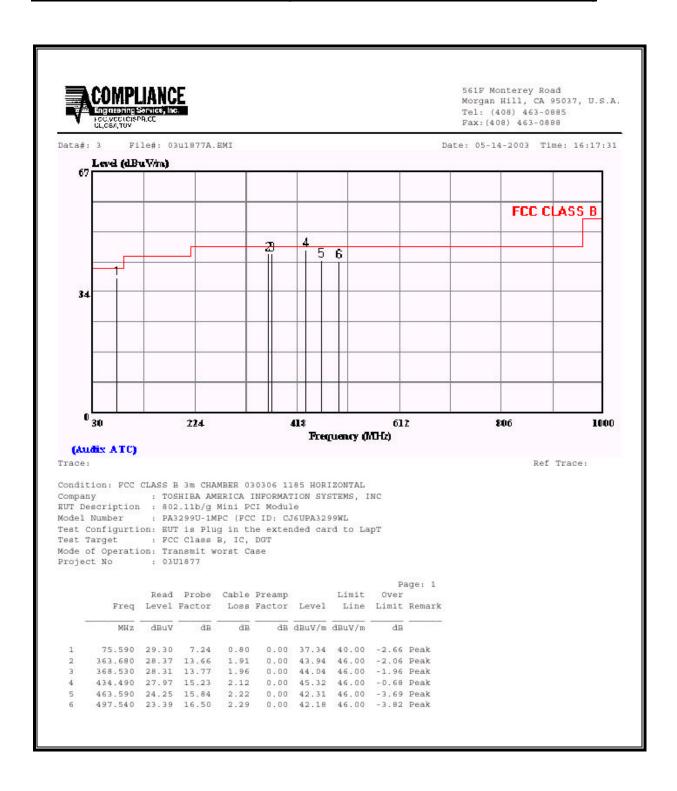
SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, VERTICAL)



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



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7.7. CO-LOCATED RADIATED EMISSIONS

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.

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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 dominant transmitter (WLAN) is set to the worst case (high) channel. The spurious emissions performance of the dominant transmitter is investigated as the non-dominant transmitter is tuned to its low, middle, and high channels.

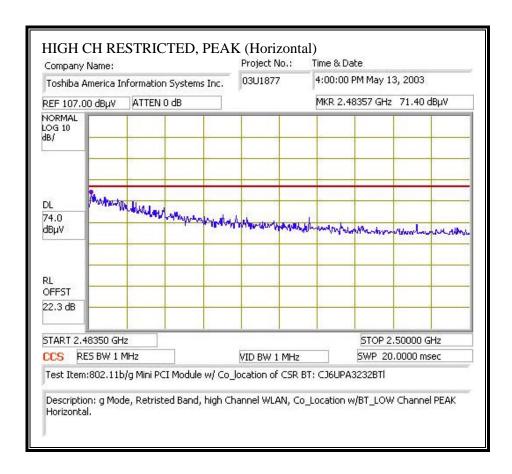
The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized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

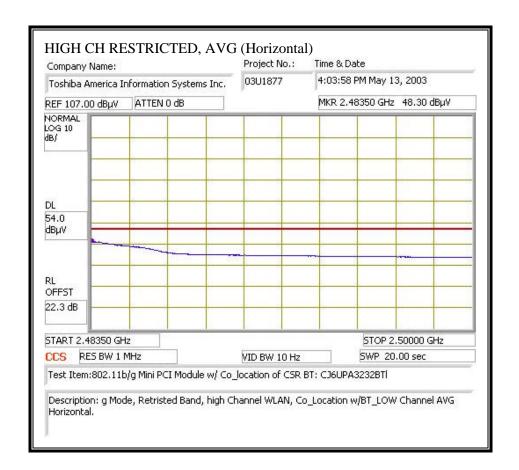
RESULTS

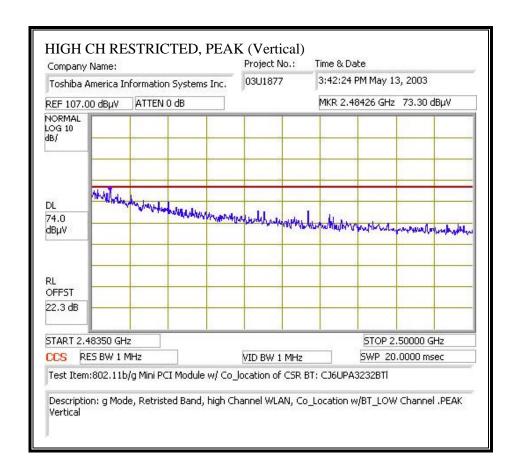
No non-compliance noted:

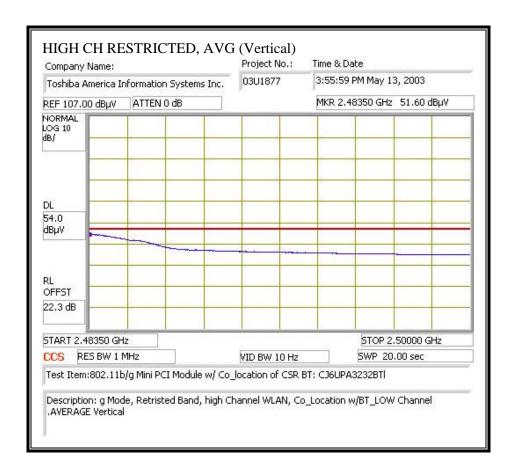
DATE: May 30, 2003

WORST-CASE RESTRICTED BANDEDGE (WITH BLUETOOTH AT LOW CHANNEL)



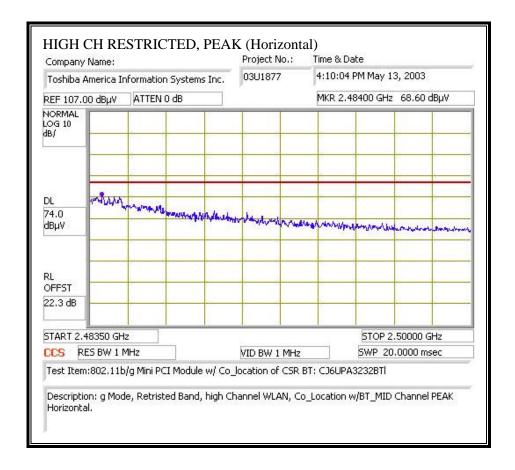


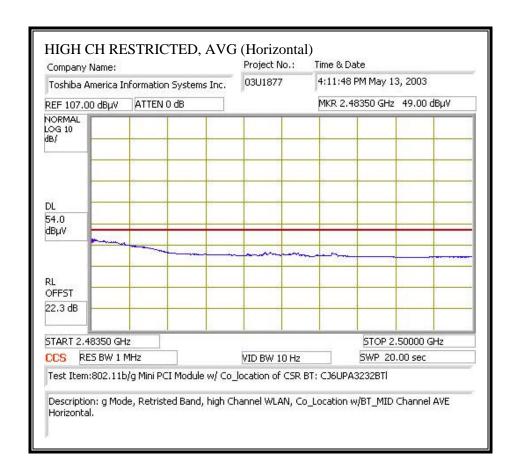


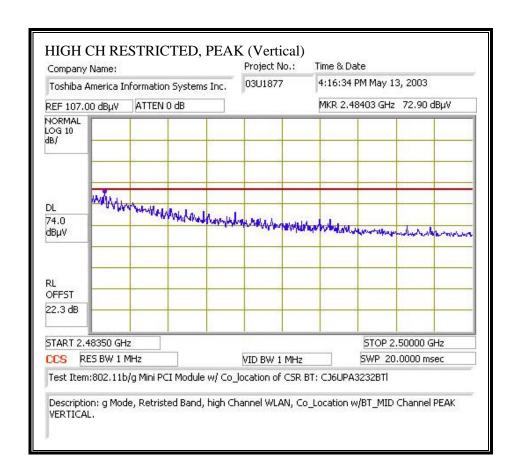


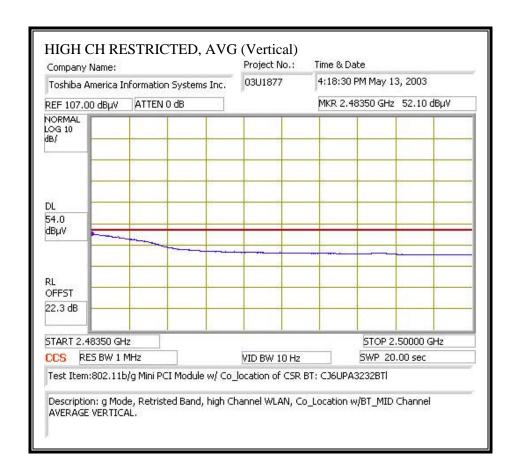
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WORST-CASE RESTRICTED BANDEDGE (WITH BLUETOOTH AT MID CHANNEL)

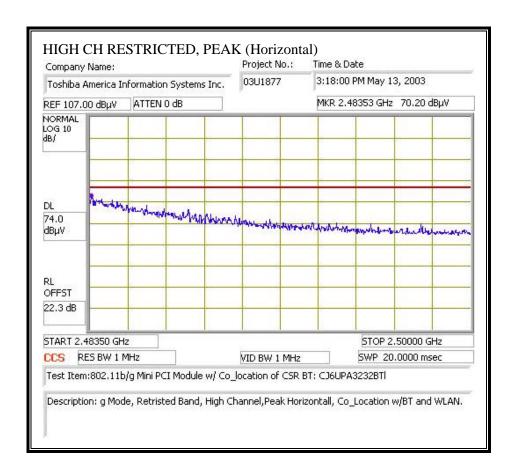




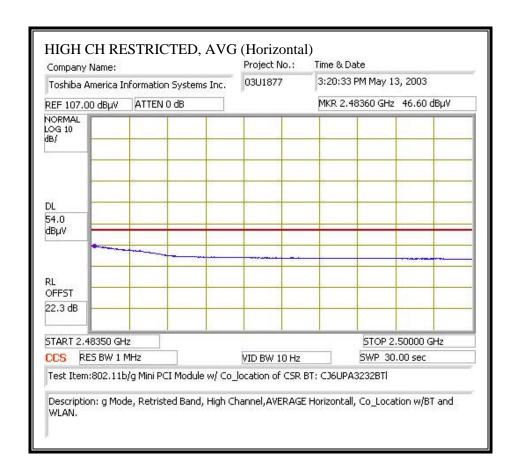


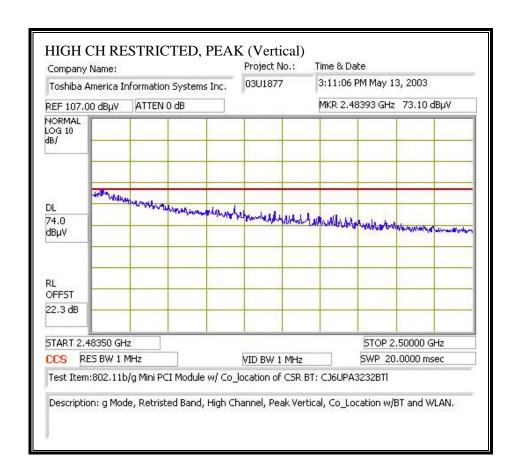


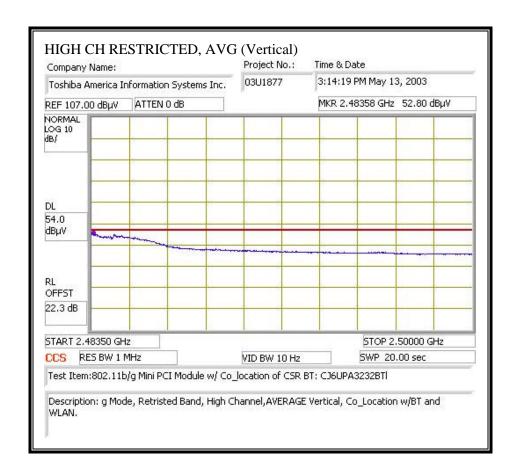
DATE: May 30, 2003 FCC ID: CJ6UPA3299WL



WORST-CASE RESTRICTED BANDEDGE (WITH BLUETOOTH AT HIGH CHANNEL)

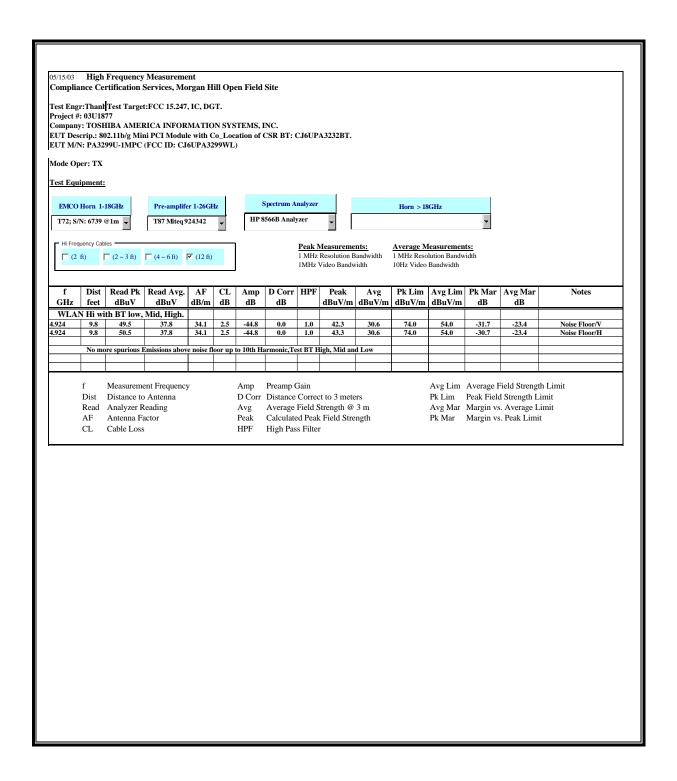






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WORST-CASE HARMONICS AND SPURIOUS EMISSIONS



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7.8. 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.

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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:

6 WORST EMISSIONS

CONDUCTED EMISSIONS DATA (115VAC 60Hz)										
Freq.	q. Reading				Limit	EN_B	Marg	Remark		
(MHz)	PK (dBuV)	QP (dBuV)	AV (dBuV)	(dB)	QP	AV	$\mathbf{QP}\left(\mathbf{dB}\right)$	AV(dB)	L1 / L2	
0.16	52.38			0.00	65.83	55.83	-13.45	-3.45	L1	
0.25	49.56			0.00	63.26	53.26	-13.70	-3.70	L1	
15.80	41.04			0.00	60.00	50.00	-18.96	-8.96	L1	
0.15	55.60			0.00	65.97	55.97	-10.37	-0.37	L2	
0.25	49.56			0.00	63.23	53.23	-13.67	-3.67	L2	
15.31	41.74			0.00	60.00	50.00	-18.26	-8.26	L2	
6 Worst I	Data									

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LINE 1 AND LINE 2 (LINE AND NEUTRAL) RESULTS

