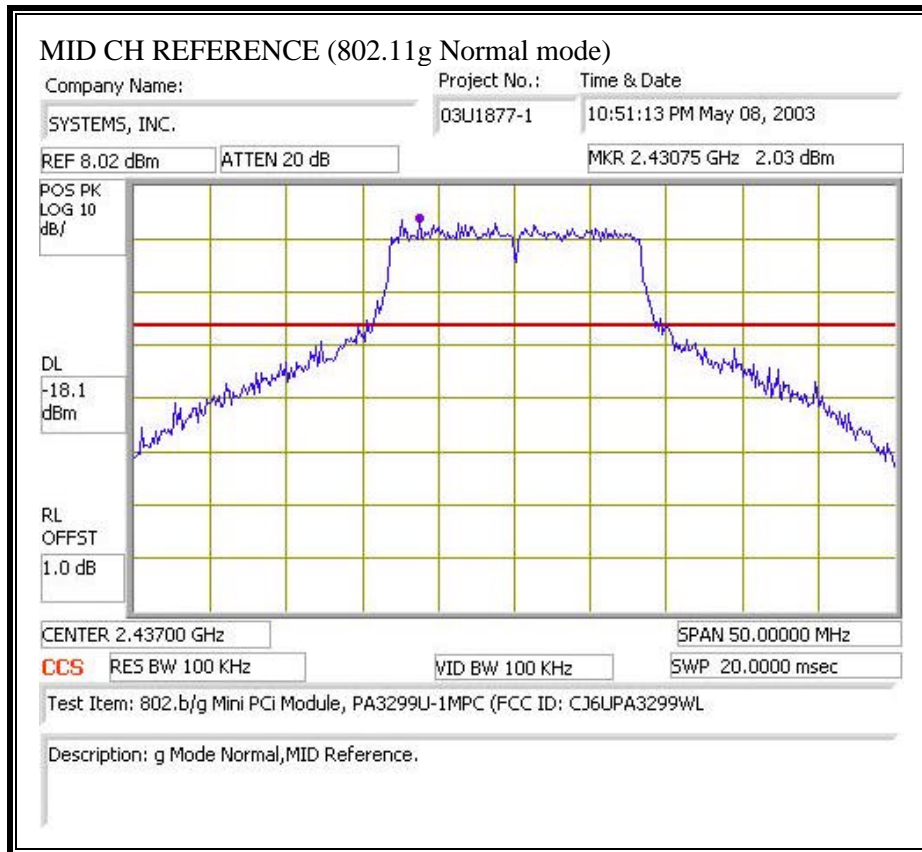
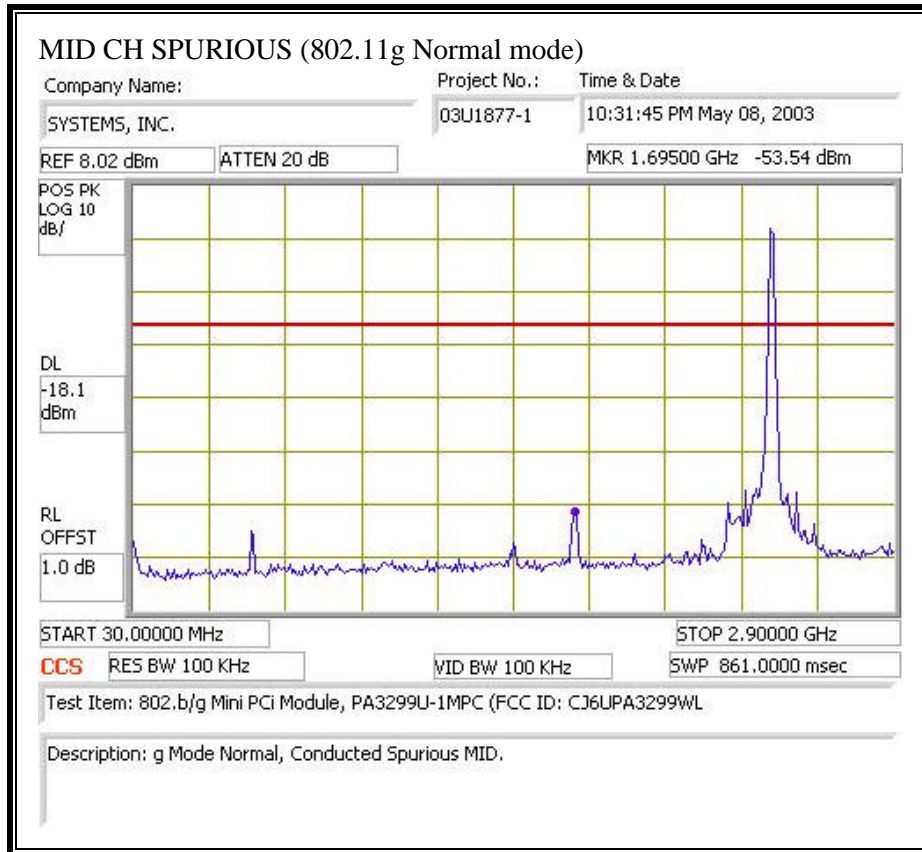
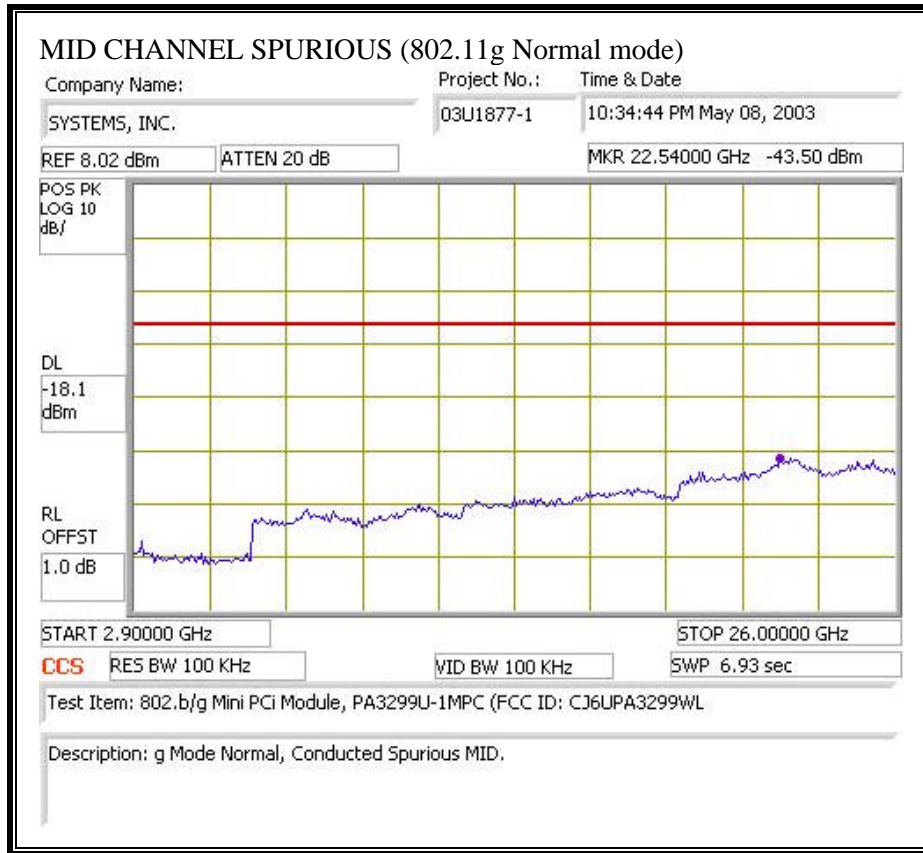


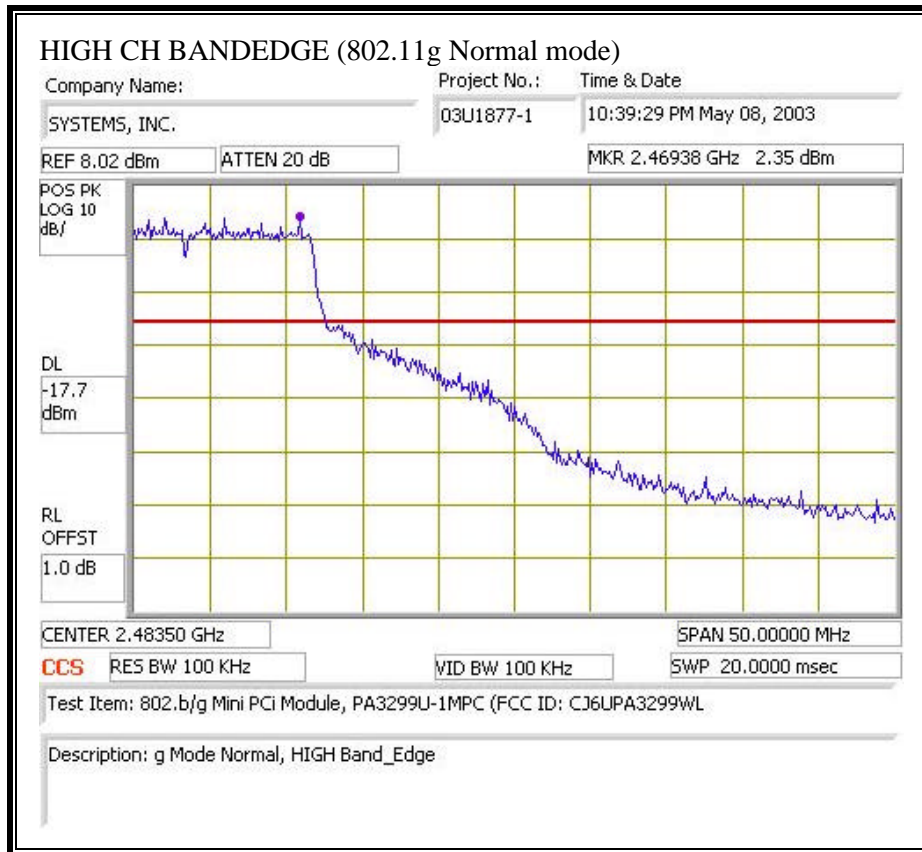
SPURIOUS EMISSIONS, MID CHANNEL (802.11g NORMAL MODE)

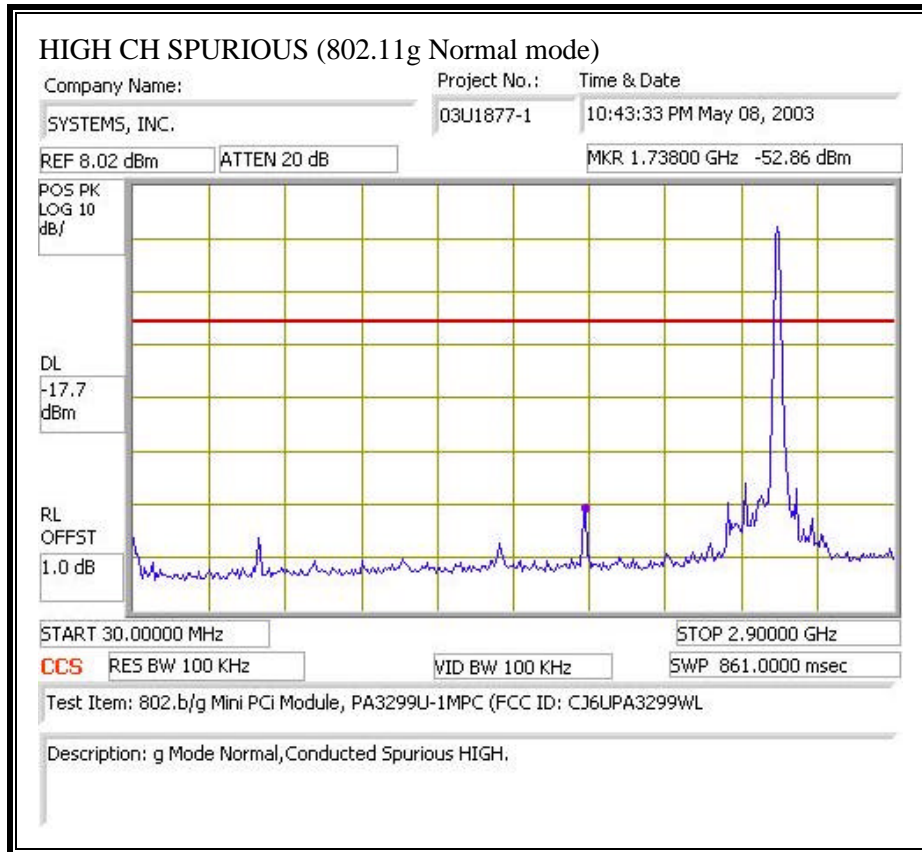


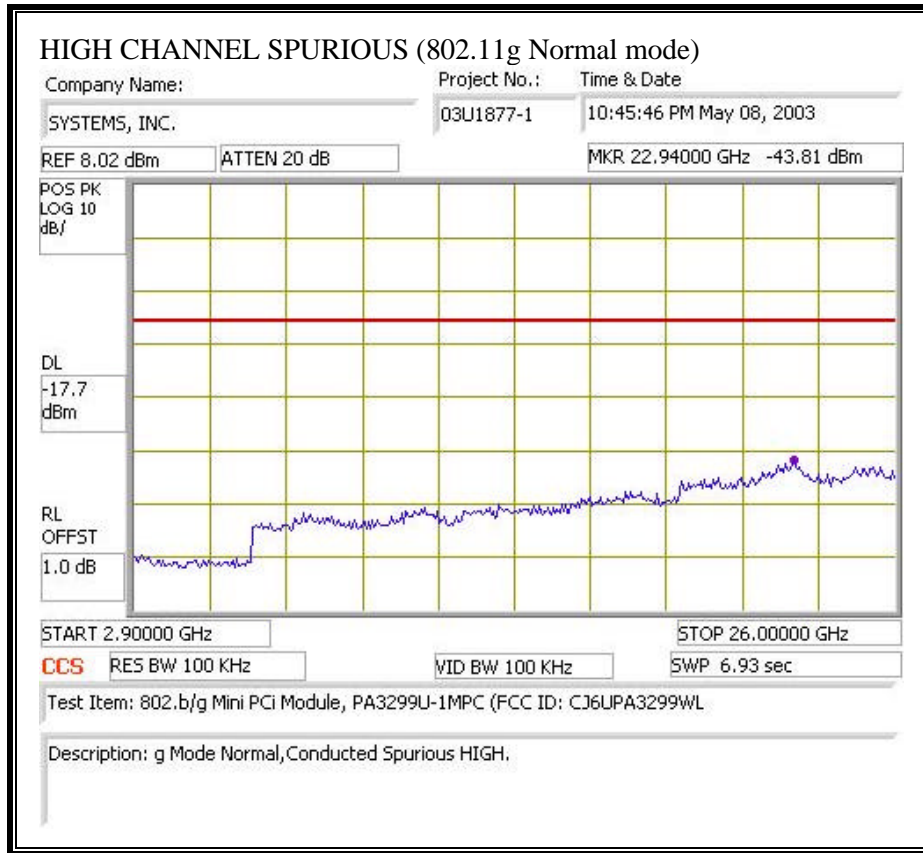


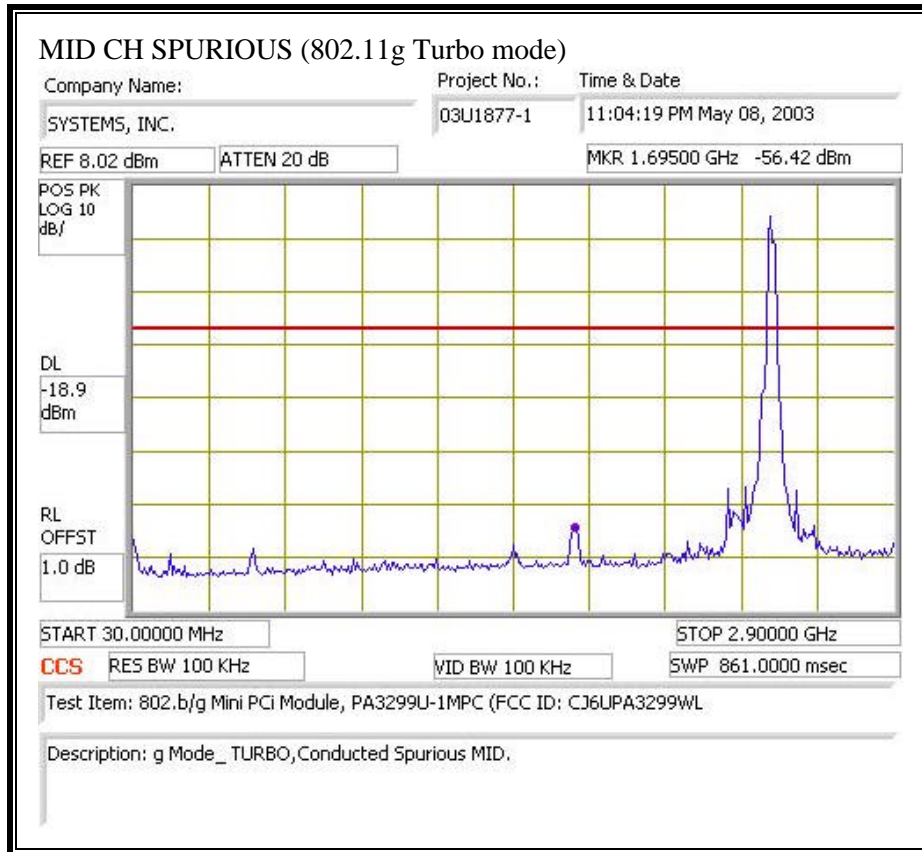


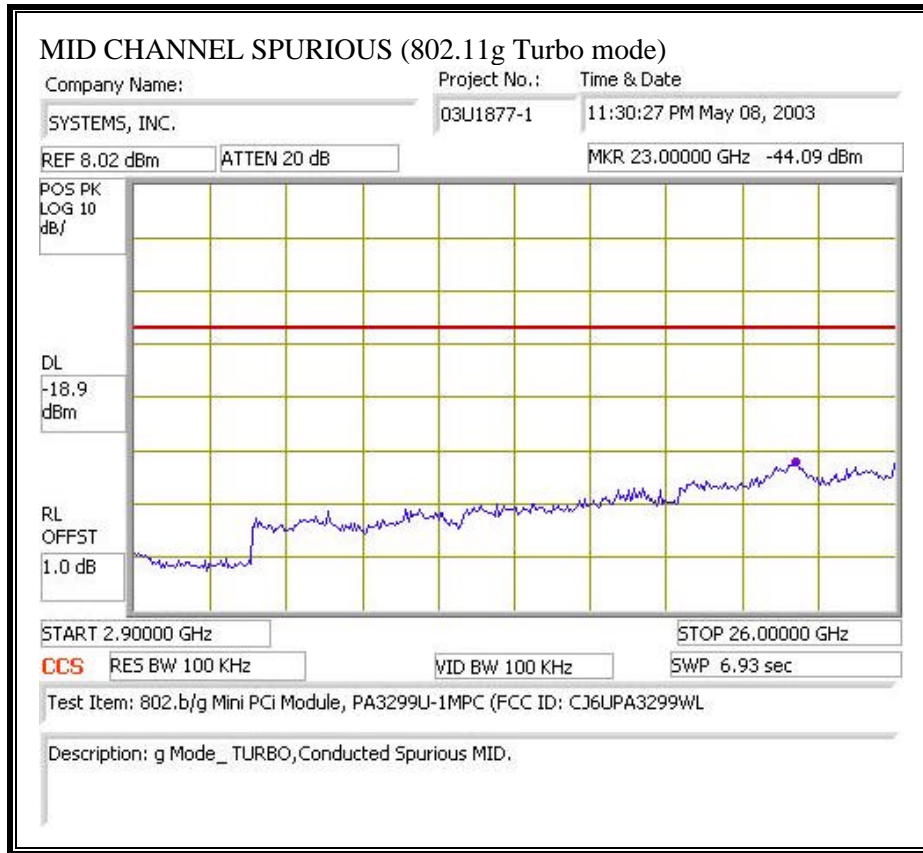
SPURIOUS EMISSIONS, HIGH CHANNEL (802.11g NORMAL MODE)











7.7. RADIATED EMISSIONS

7.7.1. TRANSMITTER 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	(²)
13.36 - 13.41			

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

² Above 38.6

§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.

§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.

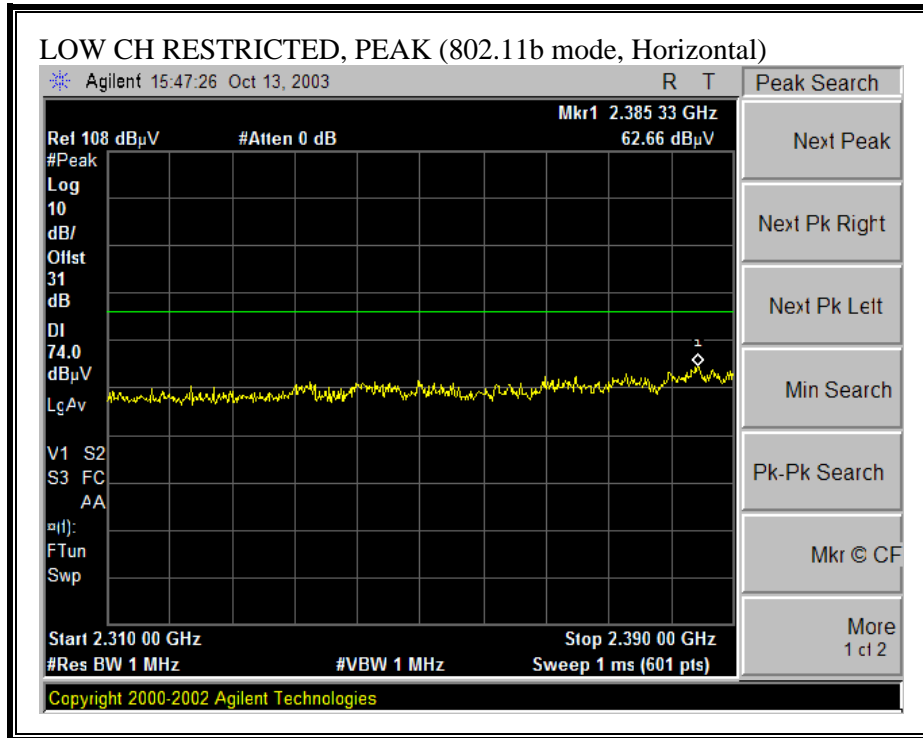
The configuration and orientation of the EUT was varied to determine the worst-case. The EUT was first configured as a typical laptop notebook PC resting on the turntable in a normal operating condition. It was then configured as a tablet PC, and evaluated in X, Y and Z orientations. The worst-case condition was observed with the EUT in the laptop configuration. Worst-case results are reported.

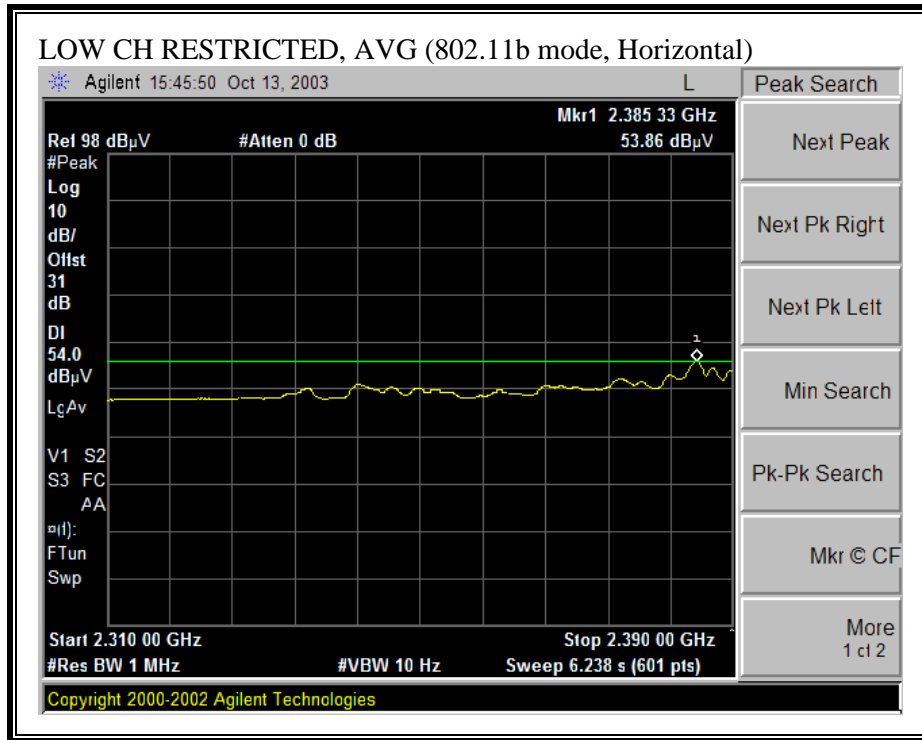
RESULTS

No non-compliance noted:

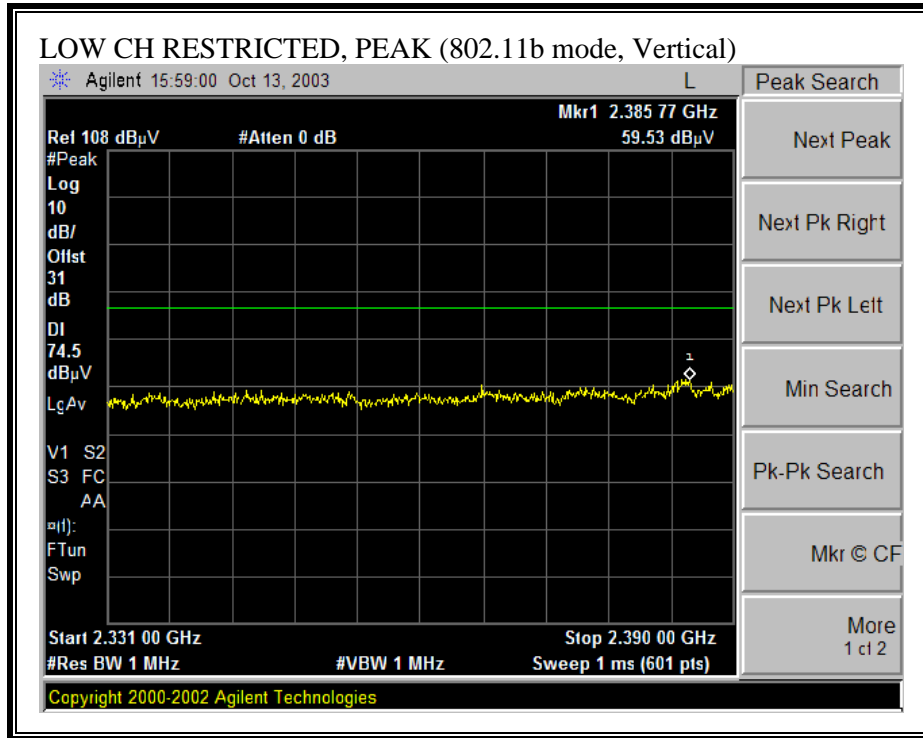
7.7.2. TRANSMITTER SPURIOUS EMISSIONS ABOVE 1 GHZ

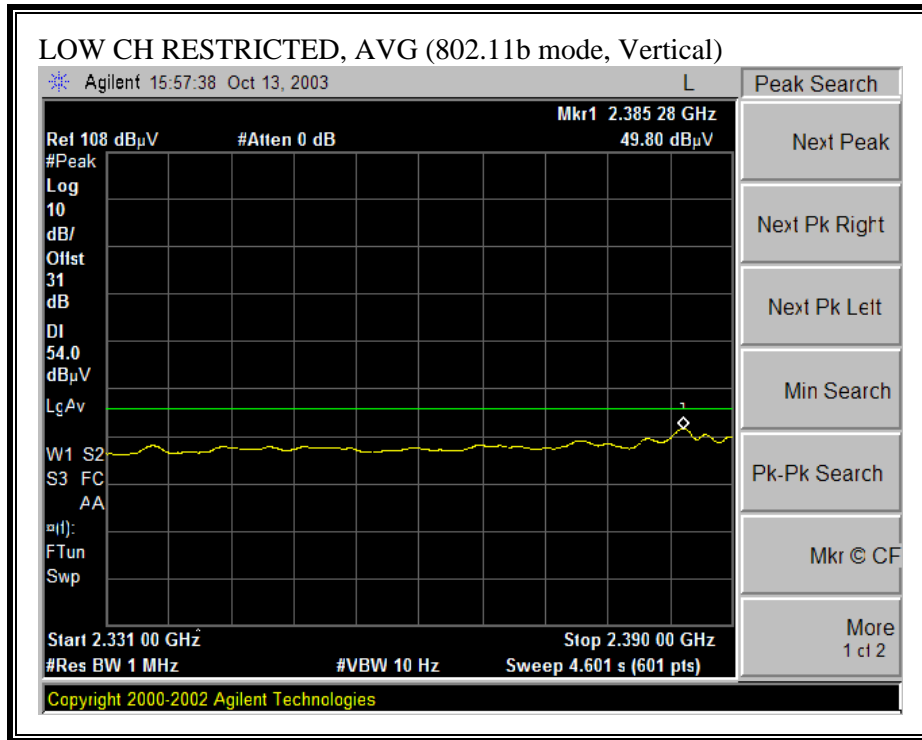
RESTRICTED BANDEDGE (b MODE, LOW CHANNEL, HORIZONTAL)



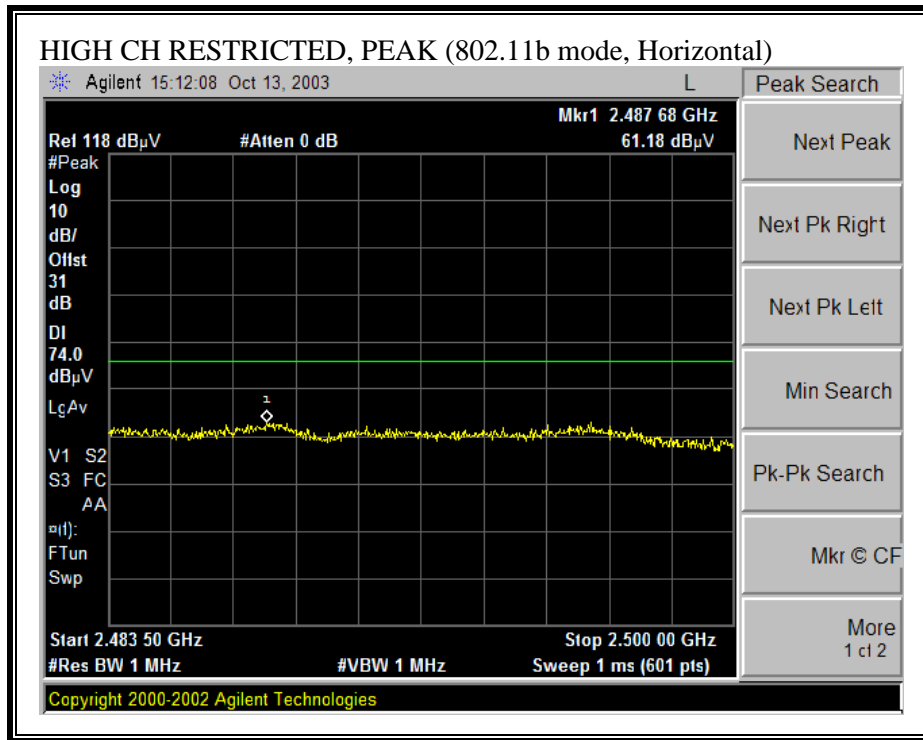


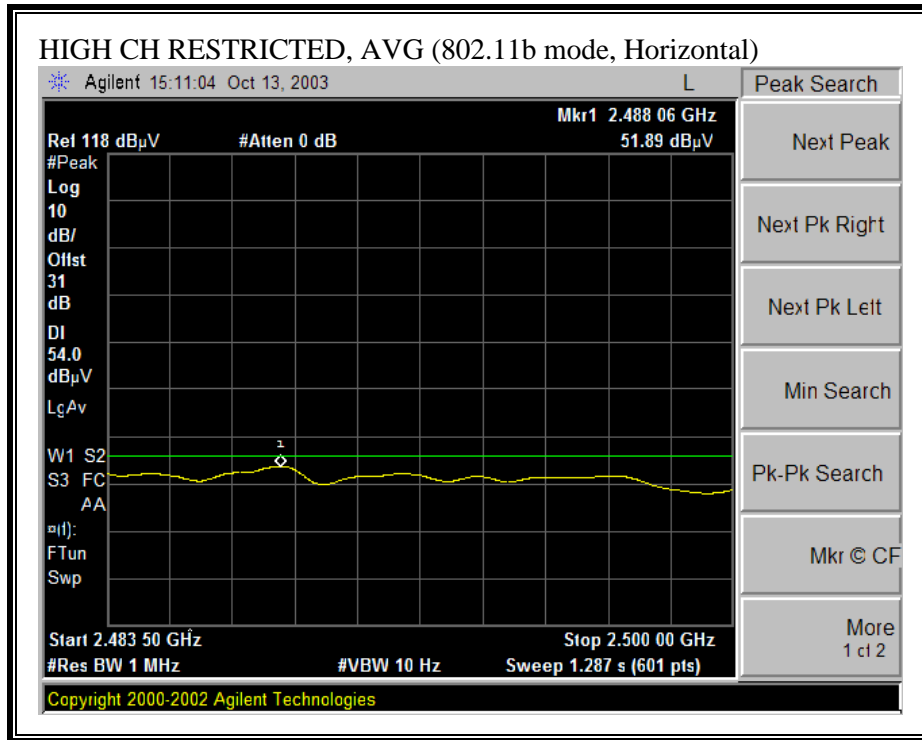
RESTRICTED BANDEDGE (b MODE, LOW CHANNEL, VERTICAL)



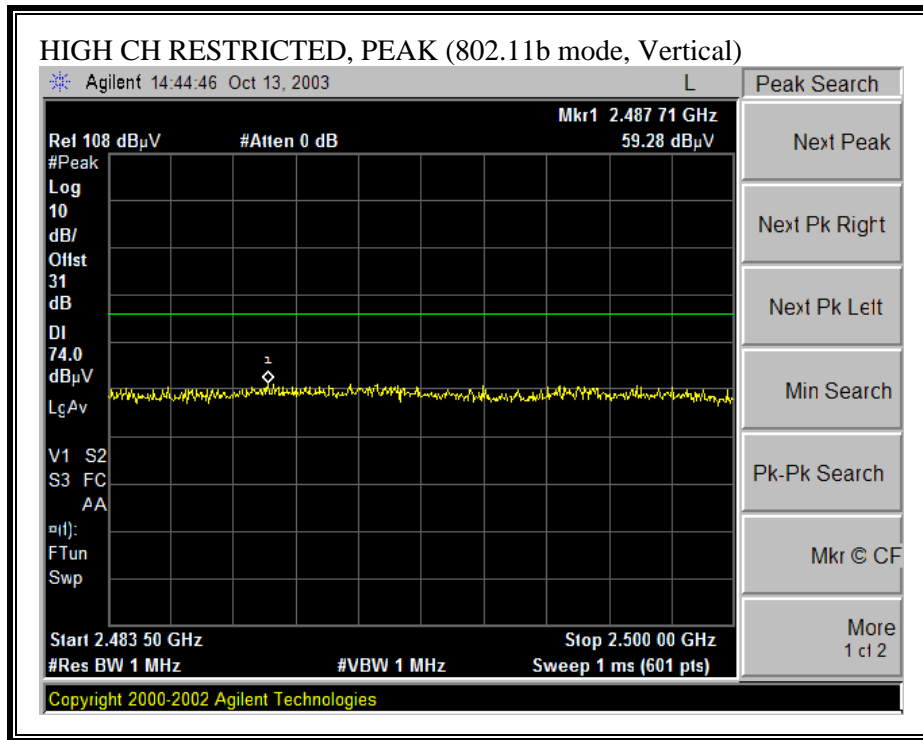


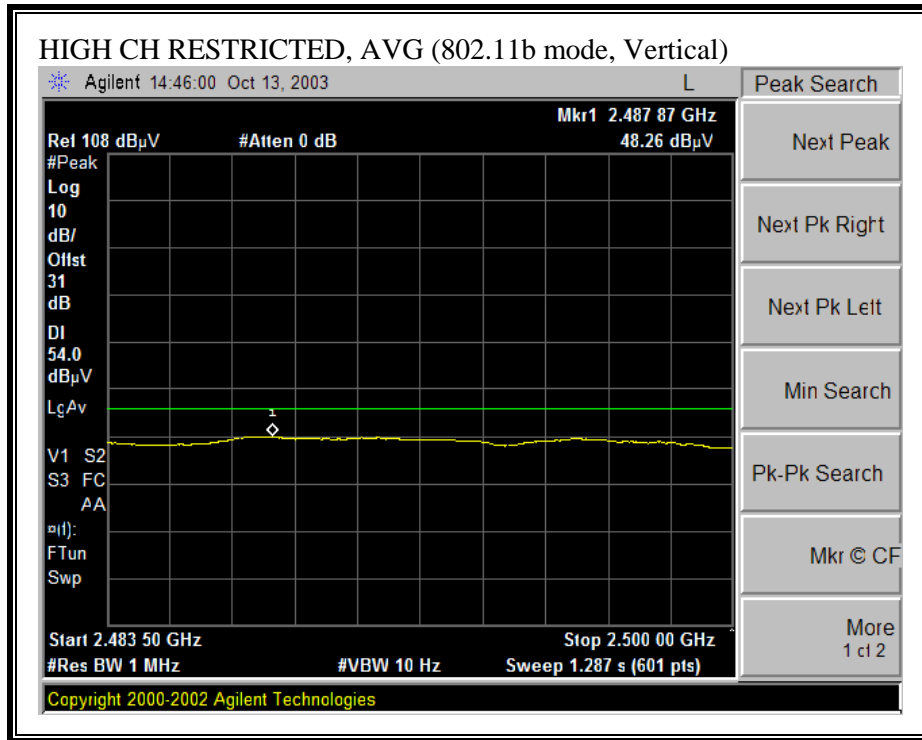
RESTRICTED BANDEDGE (b MODE, HIGH CHANNEL, HORIZONTAL)





RESTRICTED BANDEDGE (b MODE, HIGH CHANNEL, VERTICAL)

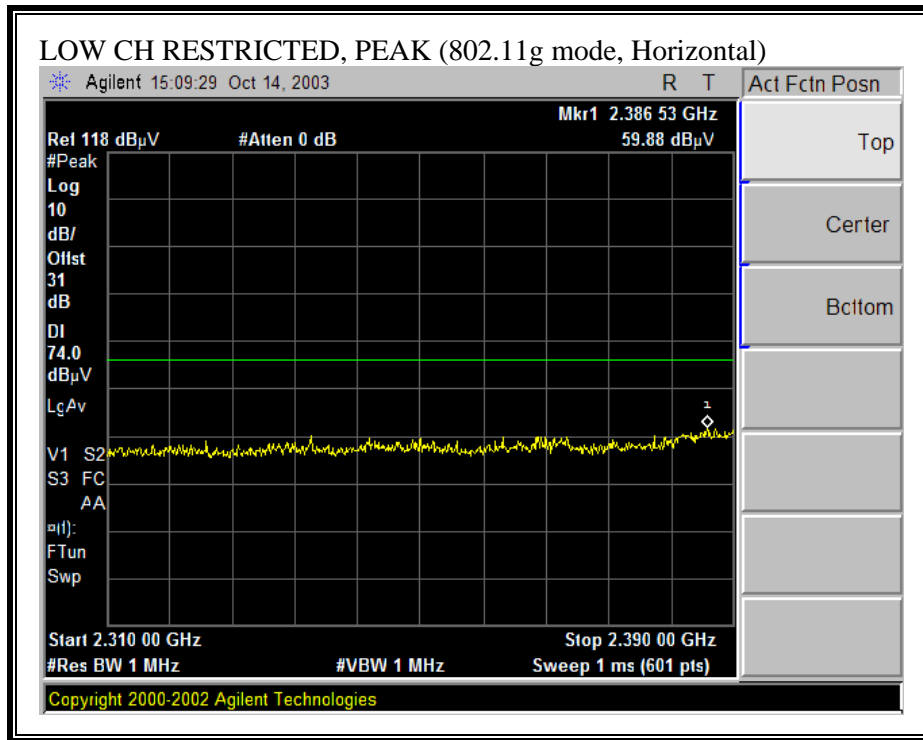


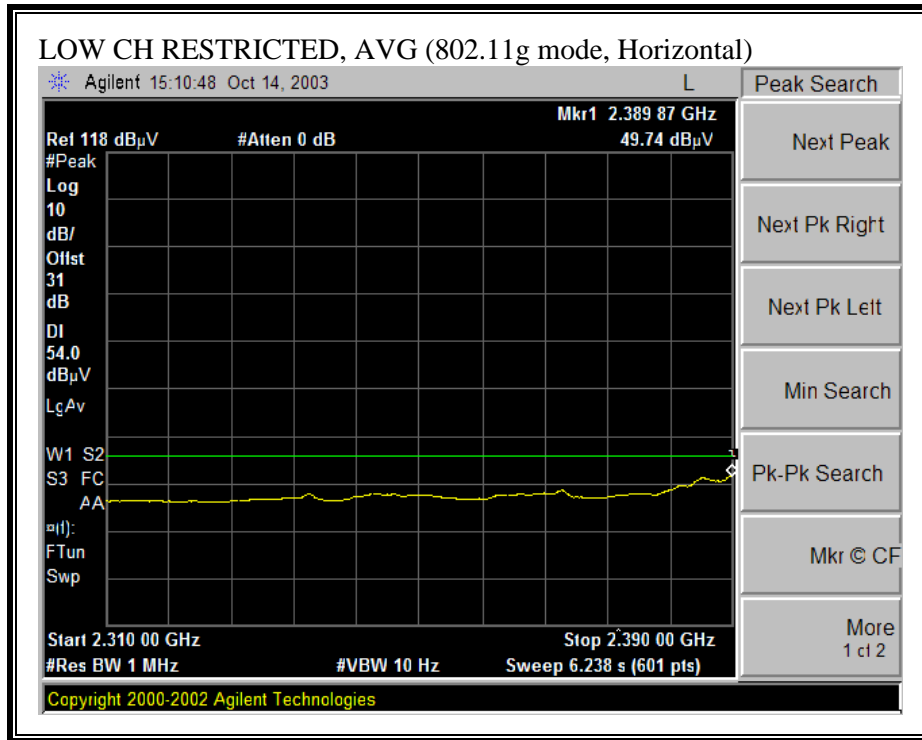


HARMONICS AND SPURIOUS EMISSIONS (b MODE)

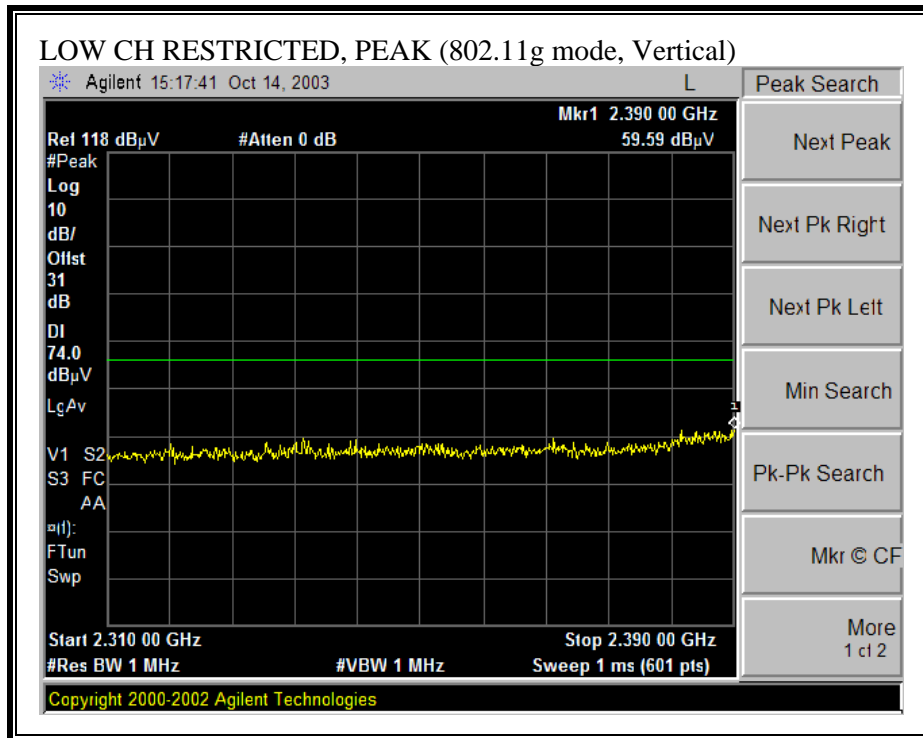
<p>10/18/03 High Frequency Measurement Compliance Certification Services, Morgan Hill Open Field Site</p> <p>Test Engr: VIEN TRAN Project #: 03U2196 Company: TOSHIBA EUT Descrip.: 11B/G WLAN CARD EUT M/N: Test Target: FCC15.247_HARMONIC & SPUR Mode Oper: Tx</p> <p>Test Equipment:</p> <table border="1"> <tr> <td>EMCO Horn 1-18GHz T60; S/N: 2238 @3m</td> <td>Pre-amplifier 1-26GHz T63 Miteq 646456</td> <td>Spectrum Analyzer Agilent E4446A Analyzer</td> <td>Horn > 18GHz</td> </tr> </table> <p>Hi Frequency Cables <input type="checkbox"/> (2 ft) <input checked="" type="checkbox"/> (2 ~ 3 ft) <input type="checkbox"/> (4 ~ 6 ft) <input checked="" type="checkbox"/> (12 ft)</p> <p>Peak Measurements: 1 MHz Resolution Bandwidth 1MHz Video Bandwidth</p> <p>Average Measurements: 1 MHz Resolution Bandwidth 10Hz Video Bandwidth</p>																EMCO Horn 1-18GHz T60; S/N: 2238 @3m	Pre-amplifier 1-26GHz T63 Miteq 646456	Spectrum Analyzer Agilent E4446A Analyzer	Horn > 18GHz
EMCO Horn 1-18GHz T60; S/N: 2238 @3m	Pre-amplifier 1-26GHz T63 Miteq 646456	Spectrum Analyzer Agilent E4446A Analyzer	Horn > 18GHz																
f GHz	Dist feet	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	HPF	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes				
11b LOW CH																			
4.824	9.8	50.2	41.6	33.1	2.8	-35.3	0.0	1.0	51.7	43.1	74.0	54.0	-22.3	-10.9	H				
4.824	9.8	52.4	43.1	33.1	2.8	-35.3	0.0	1.0	53.9	44.6	74.0	54.0	-20.1	-9.4	V				
NO OTHER EMISSION FOUND AFTER 2ND HARMONIC ALL NOISE FLOOR																			
11b MID CH																			
4.874	9.8	49.5	42.3	33.1	2.8	-35.3	0.0	1.0	51.1	43.9	74.0	54.0	-22.9	-10.1	H				
7.311	9.8	51.1	42.6	36.2	3.6	-34.6	0.0	1.0	57.3	48.8	74.0	54.0	-16.7	-5.2	H				
12.185	9.8	46.3	33.2	39.4	4.8	-35.1	0.0	1.0	56.3	43.2	74.0	54.0	-17.7	-10.8	H				
4.874	9.8	52.0	48.5	33.1	2.8	-35.3	0.0	1.0	53.6	50.1	74.0	54.0	-20.4	-3.9	V				
7.311	9.8	50.6	43.8	36.2	3.6	-34.6	0.0	1.0	56.8	50.0	74.0	54.0	-17.2	-4.0	V				
12.185	9.8	47.1	34.6	39.4	4.8	-35.1	0.0	1.0	57.1	44.6	74.0	54.0	-16.9	-9.4	V				
NO OTHER EMISSION FOUND AFTER 5TH HARMONIC ALL NOISE FLOOR																			
11b HI CH																			
4.924	9.8	47.6	41.9	33.2	2.8	-35.3	0.0	1.0	49.2	43.5	74.0	54.0	-24.8	-10.5	H				
7.386	9.8	50.4	40.3	36.3	3.6	-34.5	0.0	1.0	56.7	46.6	74.0	54.0	-17.3	-7.4	H				
12.310	9.8	42.3	32.6	39.4	4.8	-35.3	0.0	1.0	52.2	42.5	74.0	54.0	-21.8	-11.5	H				
4.924	9.8	51.3	44.9	33.2	2.8	-35.3	0.0	1.0	52.9	46.5	74.0	54.0	-21.1	-7.5	V				
7.386	9.8	51.0	44.2	36.3	3.6	-34.5	0.0	1.0	57.3	50.5	74.0	54.0	-16.7	-3.5	V				
12.310	9.8	44.8	31.9	39.4	4.8	-35.3	0.0	1.0	54.7	41.8	74.0	54.0	-19.3	-12.2	V				
NO OTHER EMISSION FOUND AFTER 5TH HARMONIC ALL NOISE FLOOR																			
f	Measurement Frequency					Amp	Preamp Gain					Avg Lim	Average Field Strength Limit						
Dist	Distance to Antenna					D Corr	Distance Correct to 3 meters					Pk Lim	Peak Field Strength Limit						
Read	Analyzer Reading					Avg	Average Field Strength @ 3 m					Avg Mar	Margin vs. Average Limit						
AF	Antenna Factor					Peak	Calculated Peak Field Strength					Pk Mar	Margin vs. Peak Limit						
CL	Cable Loss					HPF	High Pass Filter												

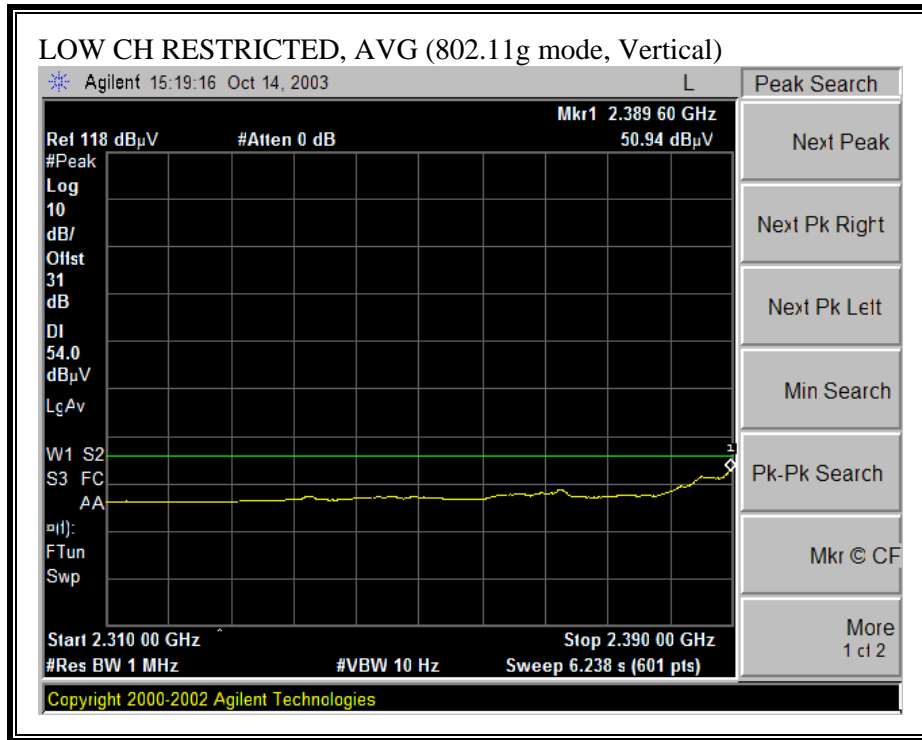
RESTRICTED BANDEDGE (g MODE, LOW CHANNEL, HORIZONTAL)



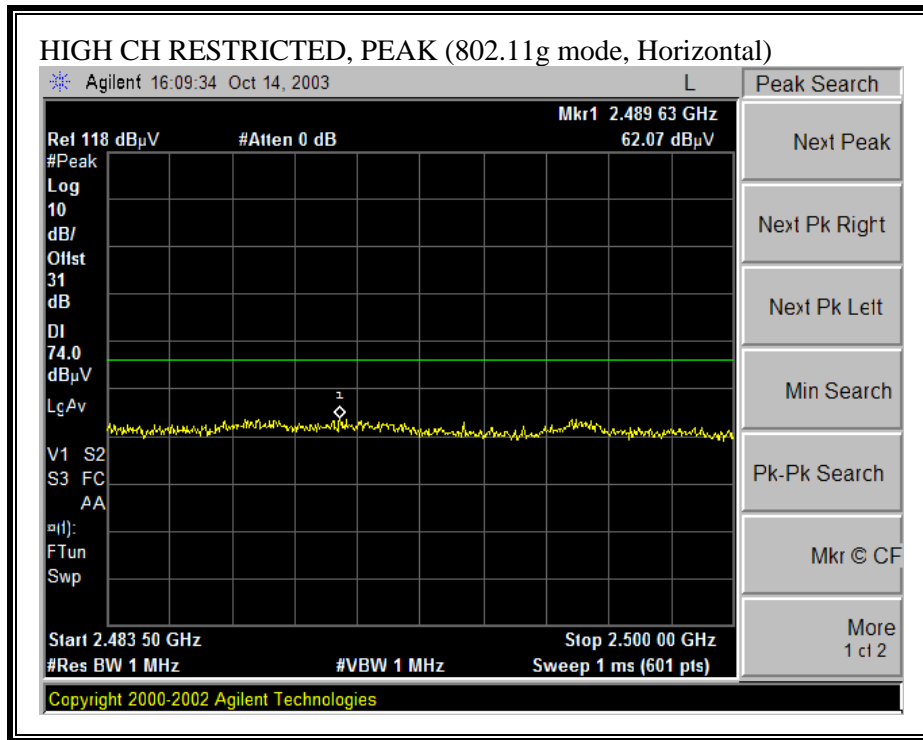


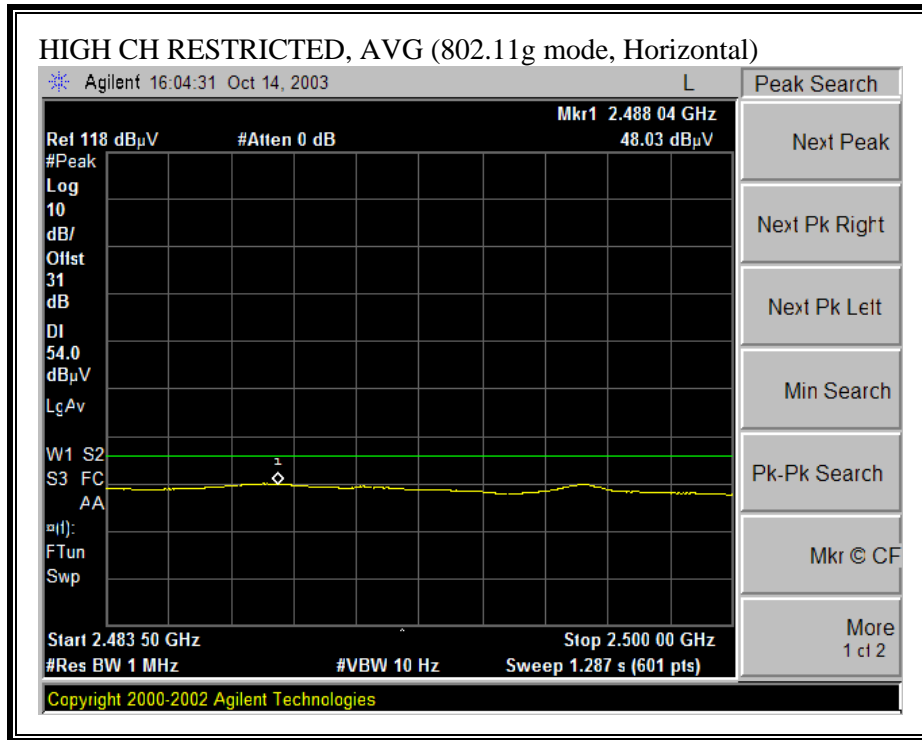
RESTRICTED BANDEDGE (g MODE, LOW CHANNEL, VERTICAL)



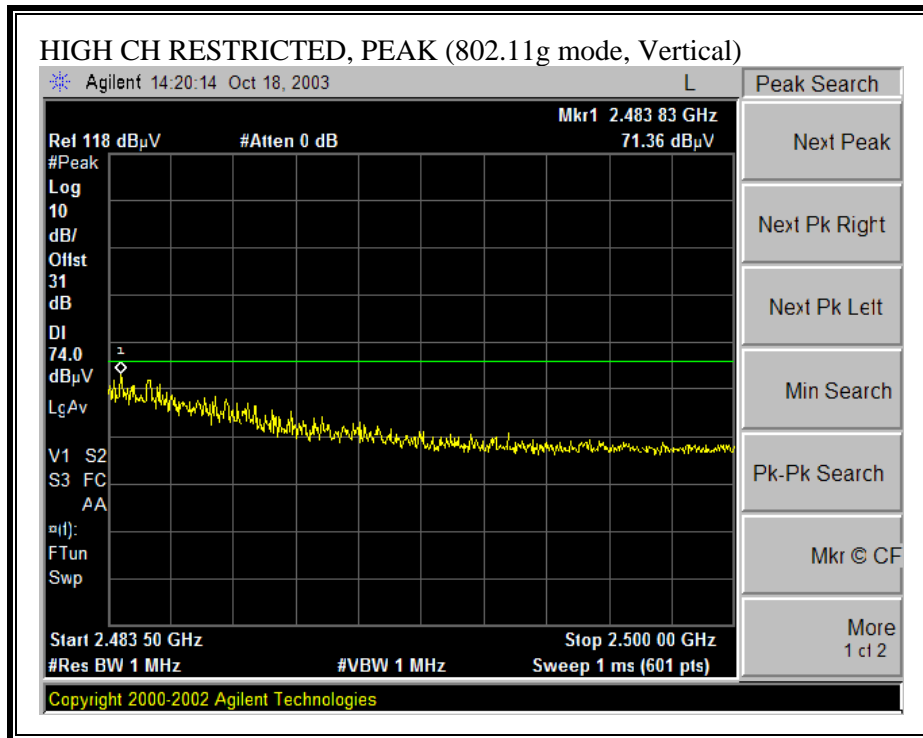


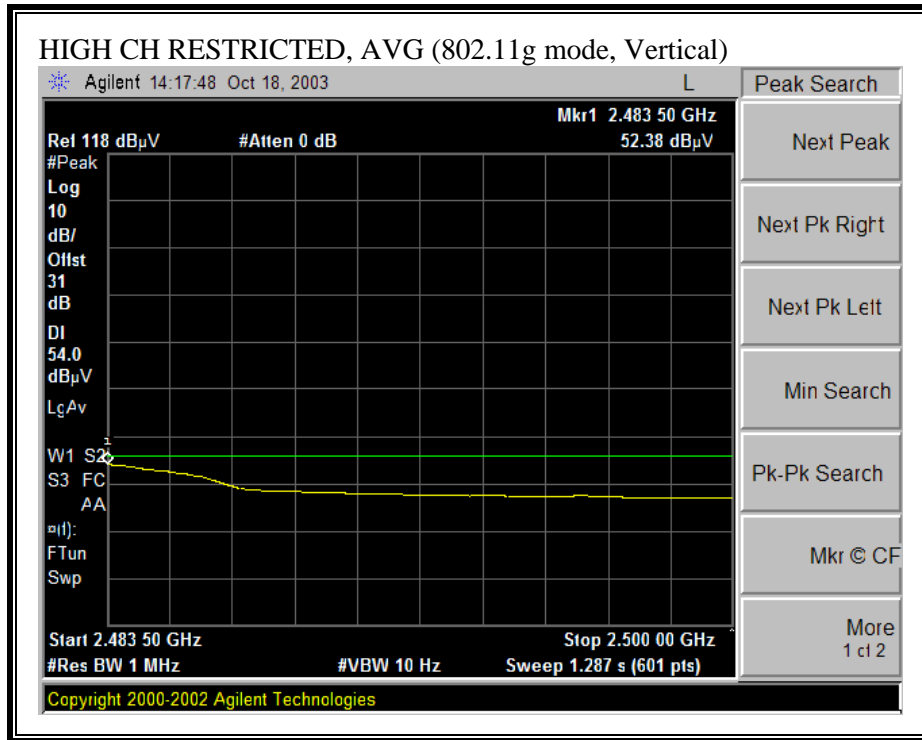
RESTRICTED BANDEDGE (g MODE, HIGH CHANNEL, HORIZONTAL)





RESTRICTED BANDEDGE (g MODE, HIGH CHANNEL, VERTICAL)





HARMONICS AND SPURIOUS EMISSIONS (g NORMAL MODE)

10/18/03 High Frequency Measurement Compliance Certification Services, Morgan Hill Open Field Site Test Engr: VIEN TRAN Project #: 03U2196 Company: TOSHIBA EUT Descrip.: 11B/G WLAN CARD EUT M/N: Test Target: FCC15.247_HARMONIC & SPUR Mode Oper: Tx Test Equipment: EMCO Horn 1-18GHz Pre-amplifier 1-26GHz Spectrum Analyzer Horn > 18GHz T60; S/N: 2238 @3m T63 Miteq 646456 Agilent E4446A Analyzer Hi Frequency Cables: <input type="checkbox"/> (2 ft) <input checked="" type="checkbox"/> (2 ~ 3 ft) <input type="checkbox"/> (4 ~ 6 ft) <input checked="" type="checkbox"/> (12 ft) Peak Measurements: Average Measurements: 1 MHz Resolution Bandwidth 1 MHz Resolution Bandwidth 1MHz Video Bandwidth 10Hz Video Bandwidth																	
f GHz	Dist feet	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	HPF	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes		
11g LOW CH																	
4.824	9.8	49.2	37.6	33.1	2.8	-35.3	0.0	1.0	50.7	39.1	74.0	54.0	-23.3	-14.9	H		
4.824	9.8	51.4	40.0	33.1	2.8	-35.3	0.0	1.0	52.9	41.5	74.0	54.0	-21.1	-12.5	V		
NO OTHER EMISSION FOUND AFTER 2ND HARMONIC ALL NOISE FLOOR																	
11g MID CH																	
4.874	9.8	48.6	33.3	33.1	2.8	-35.3	0.0	1.0	50.2	34.9	74.0	54.0	-23.8	-19.1	H		
7.311	9.8	49.9	34.8	36.2	3.6	-34.6	0.0	1.0	56.1	41.0	74.0	54.0	-17.9	-13.0	H		
12.185	9.8	42.4	32.2	39.4	4.8	-35.1	0.0	1.0	52.4	42.2	74.0	54.0	-21.6	-11.8	H		
4.874	9.8	51.1	36.1	33.1	2.8	-35.3	0.0	1.0	52.7	37.7	74.0	54.0	-21.3	-16.3	V		
7.311	9.8	48.8	36.6	36.2	3.6	-34.6	0.0	1.0	55.0	42.8	74.0	54.0	-19.0	-11.2	V		
12.185	9.8	42.6	31.4	39.4	4.8	-35.1	0.0	1.0	52.6	41.4	74.0	54.0	-21.4	-12.6	V		
NO OTHER EMISSION FOUND AFTER 5TH HARMONIC ALL NOISE FLOOR																	
11g HI CH																	
4.924	9.8	47.8	34.1	33.2	2.8	-35.3	0.0	1.0	49.4	35.7	74.0	54.0	-24.6	-18.3	H		
7.386	9.8	49.5	35.8	36.3	3.6	-34.5	0.0	1.0	55.8	42.1	74.0	54.0	-18.2	-11.9	H		
12.310	9.8	44.0	31.9	39.4	4.8	-35.3	0.0	1.0	53.9	41.8	74.0	54.0	-20.1	-12.2	H		
4.924	9.8	48.0	36.2	33.2	2.8	-35.3	0.0	1.0	49.6	37.8	74.0	54.0	-24.4	-16.2	V		
7.386	9.8	54.2	41.8	36.3	3.6	-34.5	0.0	1.0	60.5	48.1	74.0	54.0	-13.5	-5.9	V		
12.310	9.8	41.5	30.8	39.4	4.8	-35.3	0.0	1.0	51.4	40.8	74.0	54.0	-22.6	-13.2	V		
NO OTHER EMISSION FOUND AFTER 5TH HARMONIC ALL NOISE FLOOR																	
f	Measurement Frequency					Amp	Preamp Gain					Avg Lim	Average Field Strength Limit				
Dist	Distance to Antenna					D Corr	Distance Correct to 3 meters					Pk Lim	Peak Field Strength Limit				
Read	Analyzer Reading					Avg	Average Field Strength @ 3 m					Avg Mar	Margin vs. Average Limit				
AF	Antenna Factor					Peak	Calculated Peak Field Strength					Pk Mar	Margin vs. Peak Limit				
CL	Cable Loss					HPF	High Pass Filter										

HARMONICS AND SPURIOUS EMISSIONS (g TURBO MODE)

10/18/03 High Frequency Measurement Compliance Certification Services, Morgan Hill Open Field Site Test Engr: VIEN TRAN Project #: 03U2196 Company: TOSHIBA EUT Descrip.: 11B/G WLAN CARD EUT M/N: Test Target: FCC15.247_HARMONIC & SPUR Mode Oper: Tx Test Equipment: EMCO Horn 1-18GHz Pre-amplifier 1-26GHz Spectrum Analyzer Horn > 18GHz T60; S/N: 2238 @3m T63 Miteq 646456 Agilent E4446A Analyzer Hi Frequency Cables: <input type="checkbox"/> (2 ft) <input checked="" type="checkbox"/> (2 ~ 3 ft) <input type="checkbox"/> (4 ~ 6 ft) <input checked="" type="checkbox"/> (12 ft) Peak Measurements: 1 MHz Resolution Bandwidth, 1MHz Video Bandwidth Average Measurements: 1 MHz Resolution Bandwidth, 10Hz Video Bandwidth																
f GHz	Dist feet	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	HPF	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes	
11g Turbo MID CH																
4.874	9.8	47.7	32.1	33.1	2.8	-35.3	0.0	1.0	49.3	33.7	74.0	54.0	-24.7	-20.3	H	
7.311	9.8	47.9	30.8	36.2	3.6	-34.6	0.0	1.0	54.1	37.0	74.0	54.0	-19.9	-17.0	H	
12.185	9.8	42.6	33.1	39.4	4.8	-35.1	0.0	1.0	52.6	43.1	74.0	54.0	-21.4	-10.9	H	
4.874	9.8	49.2	33.4	33.1	2.8	-35.3	0.0	1.0	50.8	35.0	74.0	54.0	-23.2	-19.0	V	
7.311	9.8	46.7	35.2	36.2	3.6	-34.6	0.0	1.0	52.9	41.4	74.0	54.0	-21.1	-12.6	V	
12.185	9.8	44.5	34.4	39.4	4.8	-35.1	0.0	1.0	54.5	44.4	74.0	54.0	-19.5	-9.6	V	
NO OTHER EMISSION FOUND AFTER 5TH HARMONIC ALL NOISE FLOOR																
f	Measurement Frequency					Amp	Preamp Gain					Avg Lim	Average Field Strength Limit			
Dist	Distance to Antenna					D Corr	Distance Correct to 3 meters					Pk Lim	Peak Field Strength Limit			
Read	Analyzer Reading					Avg	Average Field Strength @ 3 m					Avg Mar	Margin vs. Average Limit			
AF	Antenna Factor					Peak	Calculated Peak Field Strength					Pk Mar	Margin vs. Peak Limit			
CL	Cable Loss					HPF	High Pass Filter									

7.7.3. CO-LOCATED TRANSMITTER SPURIOUS EMISSIONS

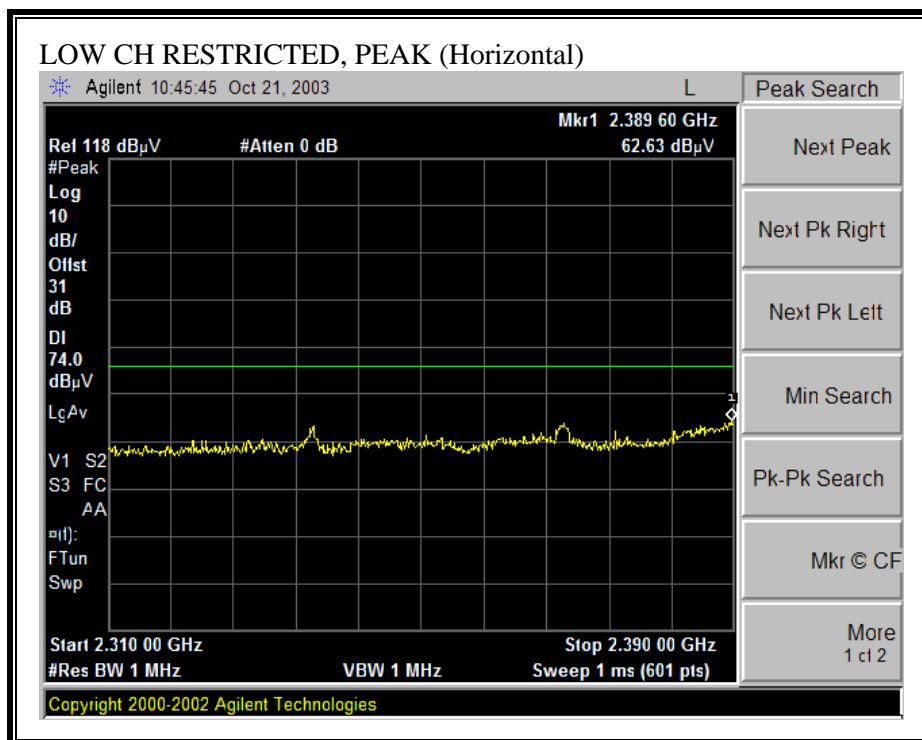
SUPPLEMENTAL TEST PROCEDURE

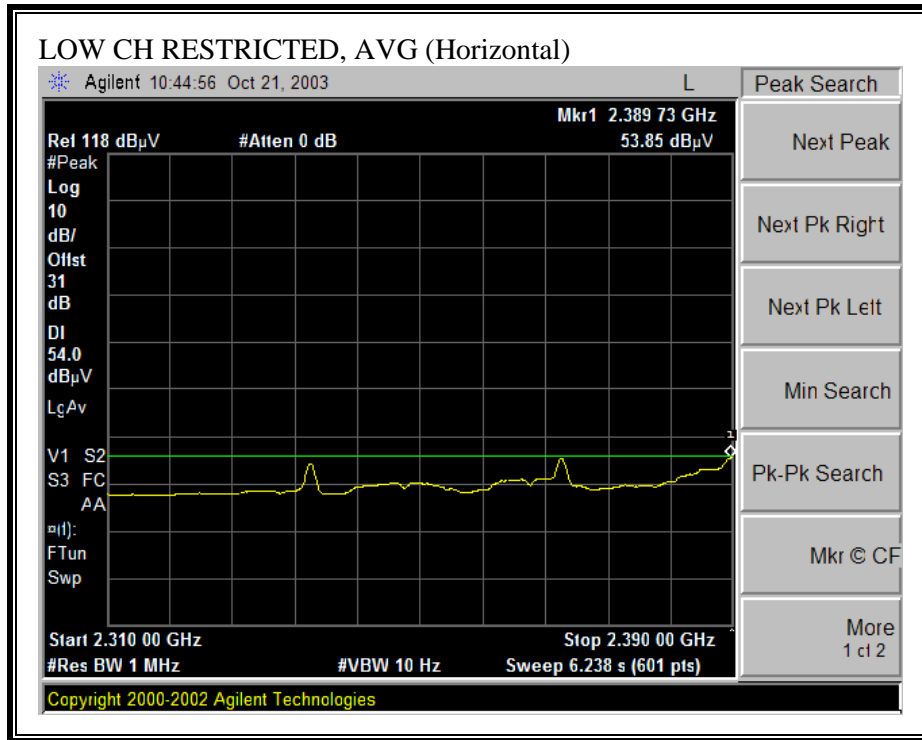
The EUT is placed on a non-conducting table 80 cm above the ground plane. The antenna The dominant transmitter is set to the worst case channel. The spurious emissions performance of the dominant transmitter is investigated as the settings of the non-dominant transmitter are varied. Worst case results are reported.

RESULTS

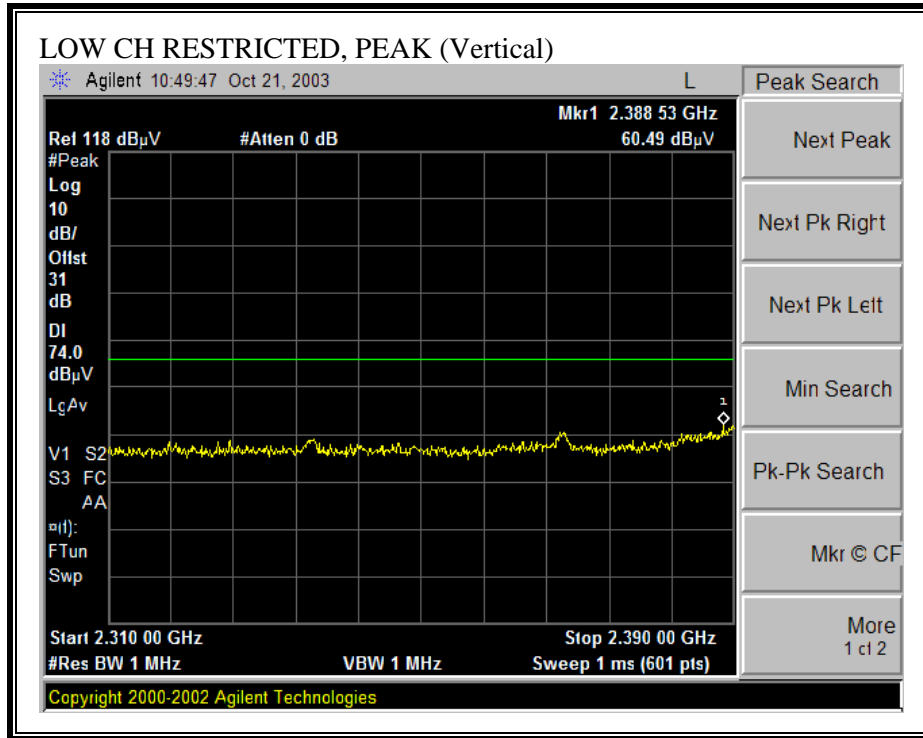
No non-compliance noted:

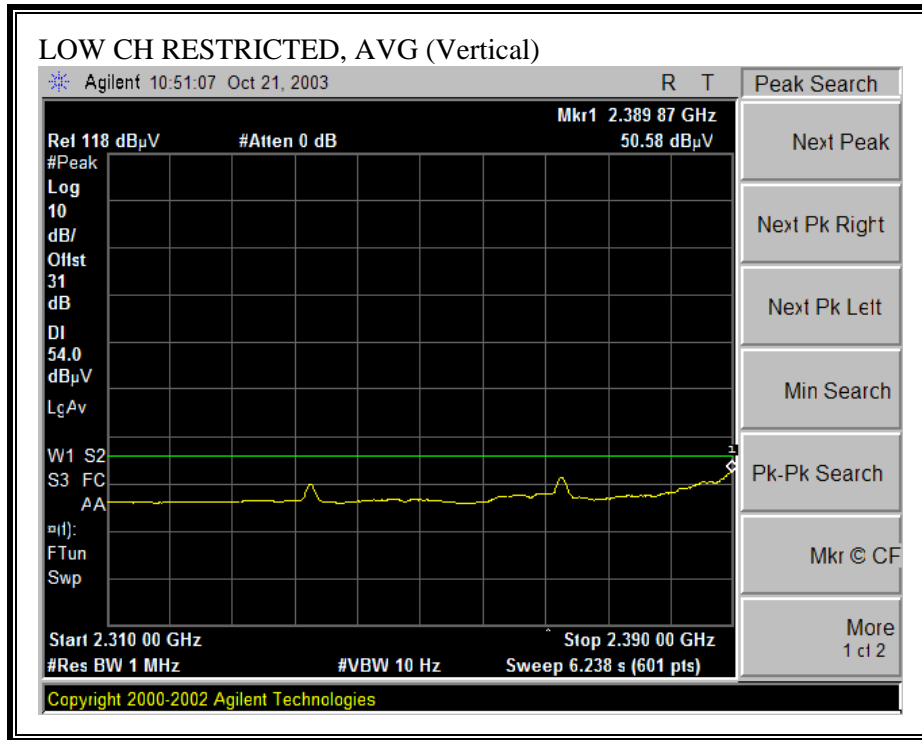
WORST-CASE RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



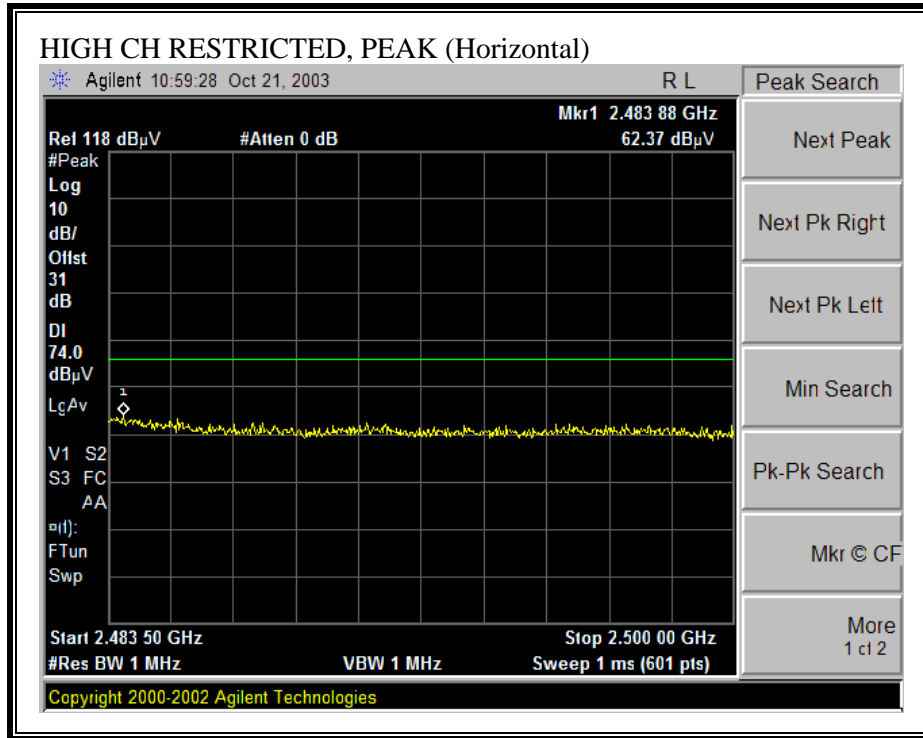


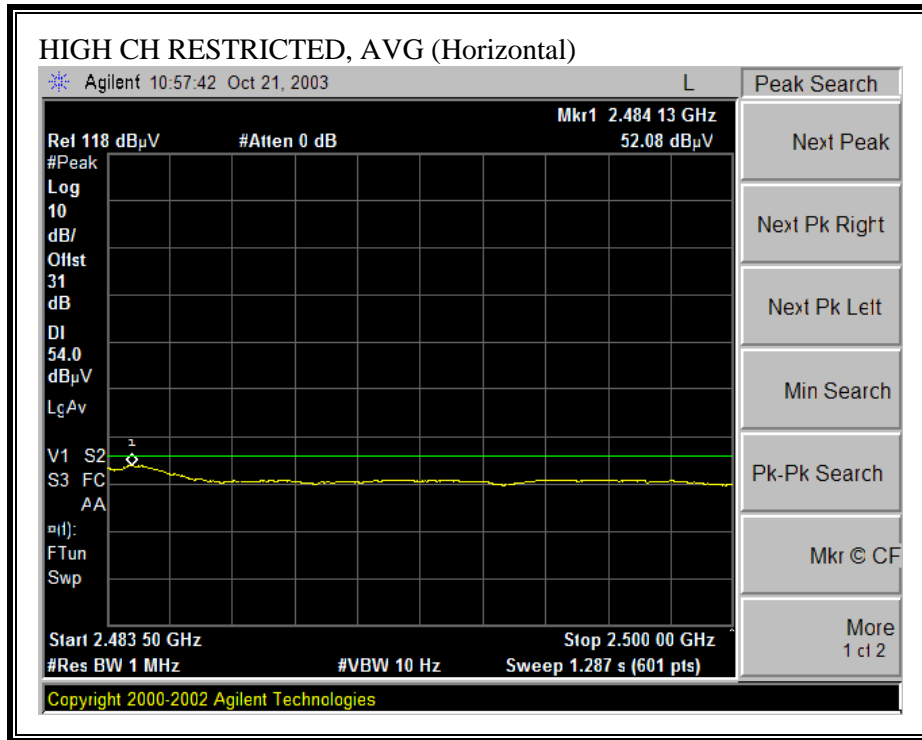
WORST-CASE RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



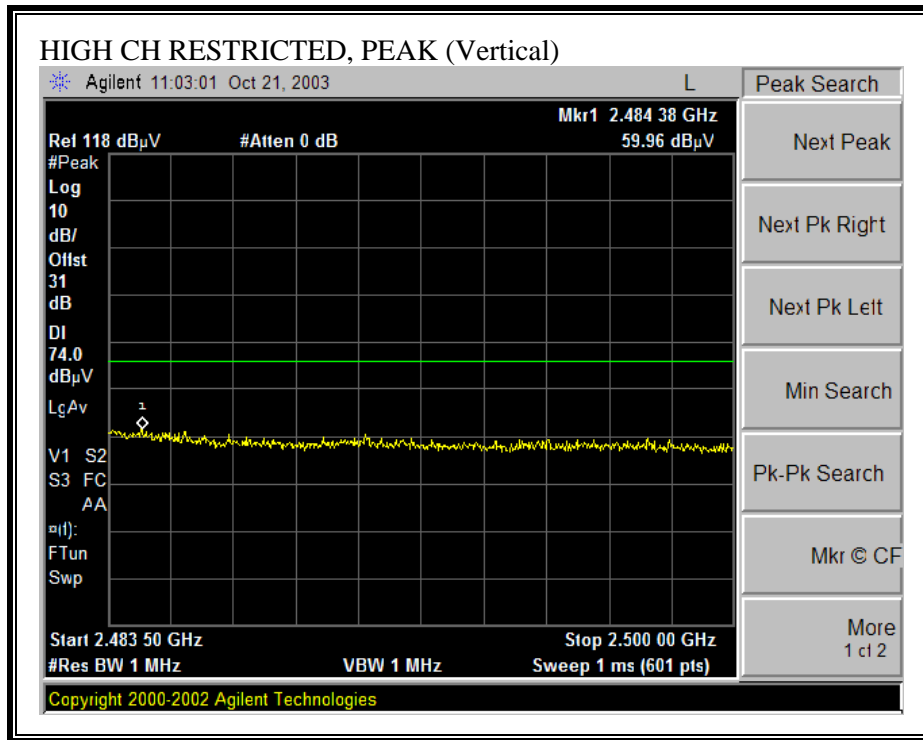


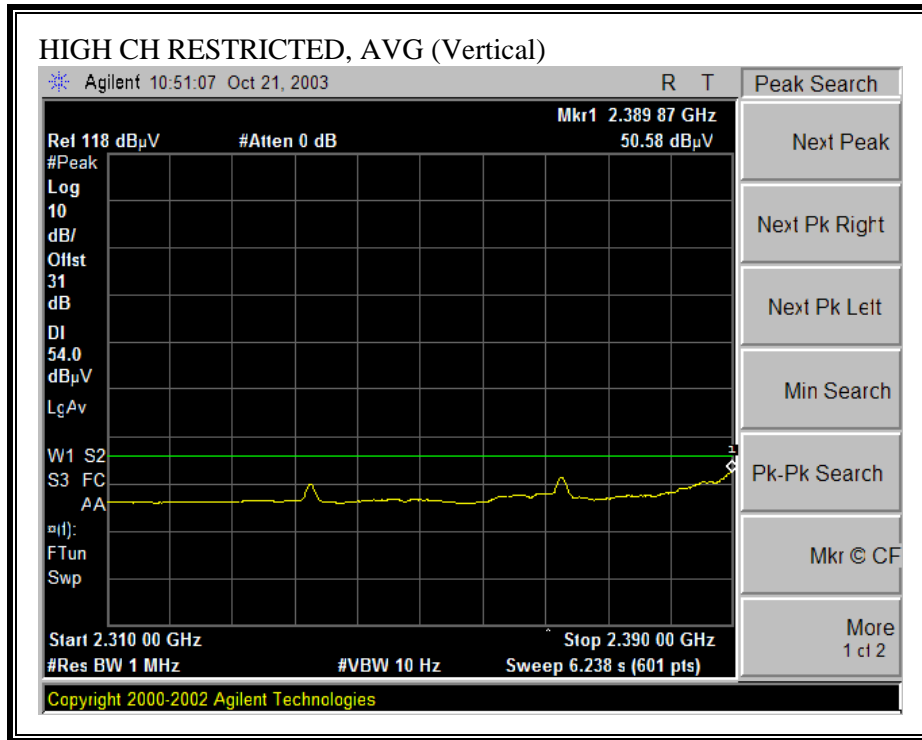
WORST-CASE RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)





WORST-CASE RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)





WORST-CASE HARMONICS AND SPURIOUS EMISSIONS

10/20/03 **High Frequency Measurement**
 Compliance Certification Services, Morgan Hill Open Field Site

Test Engr: THANH NGUYEN
 Project #: 03U2196
 Company: TOSHIBA AMERICA INFORMATION SYSTEMS, INC.
 EUT Descrip.: 802.11 b/g Combo Module(MB21g In Firebolt 10, w/Colocation)
 EUT M/N: PA3297U-1MPC (FCC ID: CJ6UPA3297WL)
 Test Target: FCC 15.247
 Mode Oper: 2.4GHz. CO-LOCATED

Test Equipment:

EMCO Horn 1-18GHz T73; S/N: 6717 @3m	Pre-amplifier 1-26GHz T86 Miteq 924341	Spectrum Analyzer Agilent E4446A Analyzer	Horn > 18GHz T87; ARA 18-26GHz; S/N:1049
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Hi Frequency Cables: (2 ft) (2 ~ 3 ft) (4 ~ 6 ft) (12 ft)

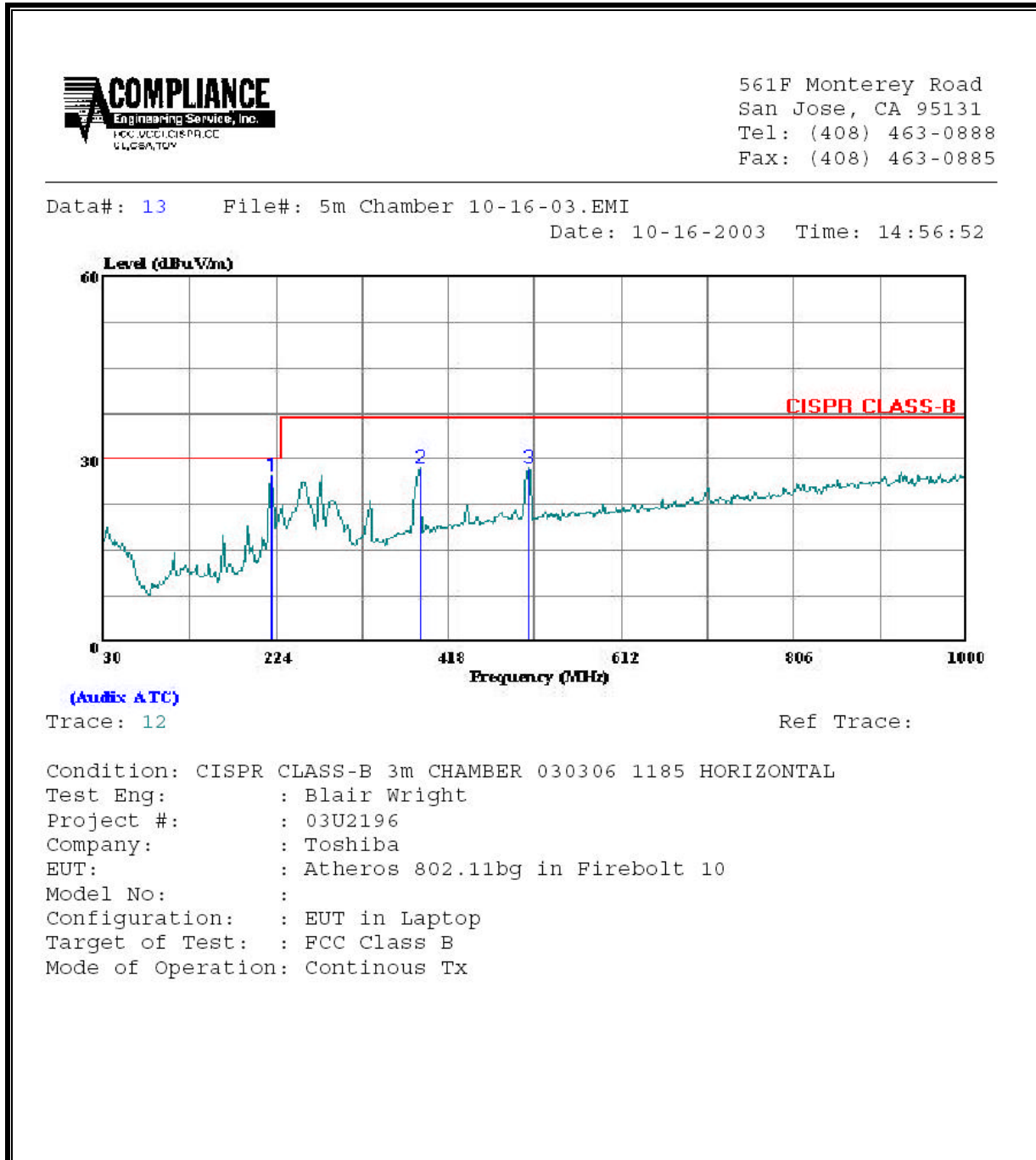
Peak Measurements: 1 MHz Resolution Bandwidth, 1MHz Video Bandwidth
Average Measurements: 1 MHz Resolution Bandwidth, 10Hz Video Bandwidth

f GHz	Dist feet	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	HPF	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes
Tx at 2.4CO-LOCATED Harmonics and spuriuos Emissions.															
4.874	9.8	48.6	41.9	33.4	3.2	-45.6	0.0	1.0	40.5	33.8	74.0	54.0	-33.5	-20.2	H
7.311	9.8	52.3	43.8	35.8	4.1	-46.6	0.0	1.0	46.6	38.1	74.0	54.0	-27.4	-15.9	H
12.185	9.8	44.5	31.8	39.2	5.6	-45.6	0.0	1.0	44.7	32.0	74.0	54.0	-29.3	-22.0	H
4.874	9.8	51.5	48.1	33.4	3.2	-45.6	0.0	1.0	43.4	40.0	74.0	54.0	-30.6	-14.0	V
7.311	9.8	51.2	44.3	35.8	4.1	-46.6	0.0	1.0	45.5	38.6	74.0	54.0	-28.5	-15.4	V
12.185	9.8	45.3	33.2	39.2	5.6	-45.6	0.0	1.0	45.5	33.4	74.0	54.0	-28.5	-20.6	V
No more Spurious emissions was detected above the system noise floor															

f	Measurement Frequency	Amp	Preamp Gain	Avg Lim	Average Field Strength Limit
Dist	Distance to Antenna	D Corr	Distance Correct to 3 meters	Pk Lim	Peak Field Strength Limit
Read	Analyzer Reading	Avg	Average Field Strength @ 3 m	Avg Mar	Margin vs. Average Limit
AF	Antenna Factor	Peak	Calculated Peak Field Strength	Pk Mar	Margin vs. Peak Limit
CL	Cable Loss	HPF	High Pass Filter		

7.7.4. WORST-CASE SPURIOUS EMISSIONS BELOW 1 GHZ

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



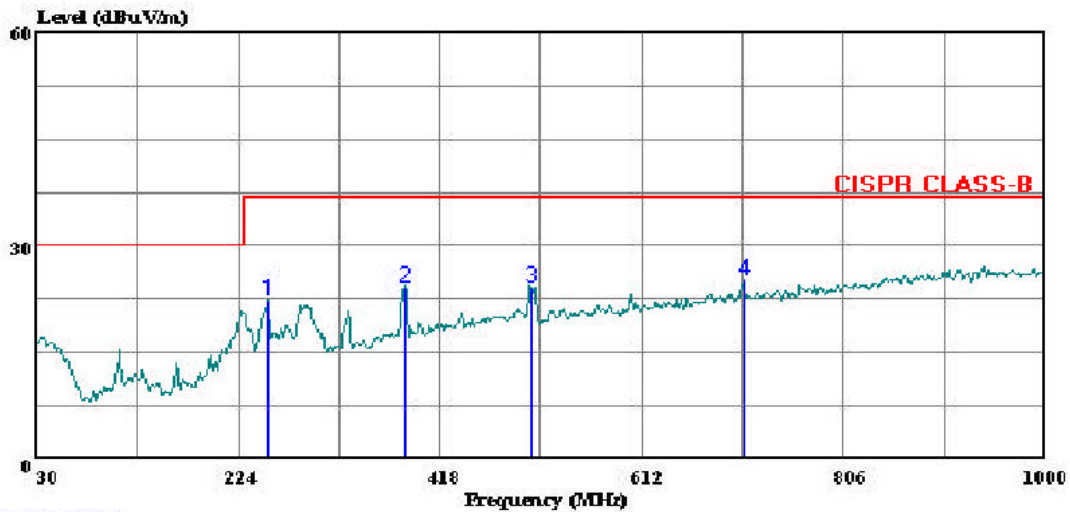
	Freq	Read Level	Probe Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV/m	dBuV/m	dB	
1	218.180	15.70	10.07	1.43	27.20	30.00	-2.80	Peak
2	385.990	12.39	14.16	1.99	28.54	37.00	-8.46	Peak
3	507.240	9.68	16.63	2.31	28.62	37.00	-8.38	Peak

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



561F Monterey Road
San Jose, CA 95131
Tel: (408) 463-0888
Fax: (408) 463-0885

Data#: 15 File#: 5m Chamber 10-16-03.EMI Date: 10-16-2003 Time: 15:08:24



(Auxiliary ATC)

Trace: 14

Ref Trace:

Condition: CISPR CLASS-B 3m CHAMBER 030306 1185 VERTICAL
Test Eng: : Blair Wright
Project #: : 03U2196
Company: : Toshiba
EUT: : Atheros 802.11bg in Firebolt 10
Model No: :
Configuration: : EUT in Laptop
Target of Test: : FCC Class B
Mode of Operation: Continuous Tx

	Freq	Read Level	Probe Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV/m	dBuV/m	dB	
1	252.130	9.15	11.77	1.54	22.46	37.00	-14.54	Peak
2	384.050	8.07	14.10	1.98	24.14	37.00	-12.86	Peak
3	505.300	5.18	16.61	2.31	24.10	37.00	-12.90	Peak
4	710.940	3.70	18.70	2.78	25.18	37.00	-11.82	Peak

7.8. POWERLINE CONDUCTED EMISSIONS

LIMIT

§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 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.

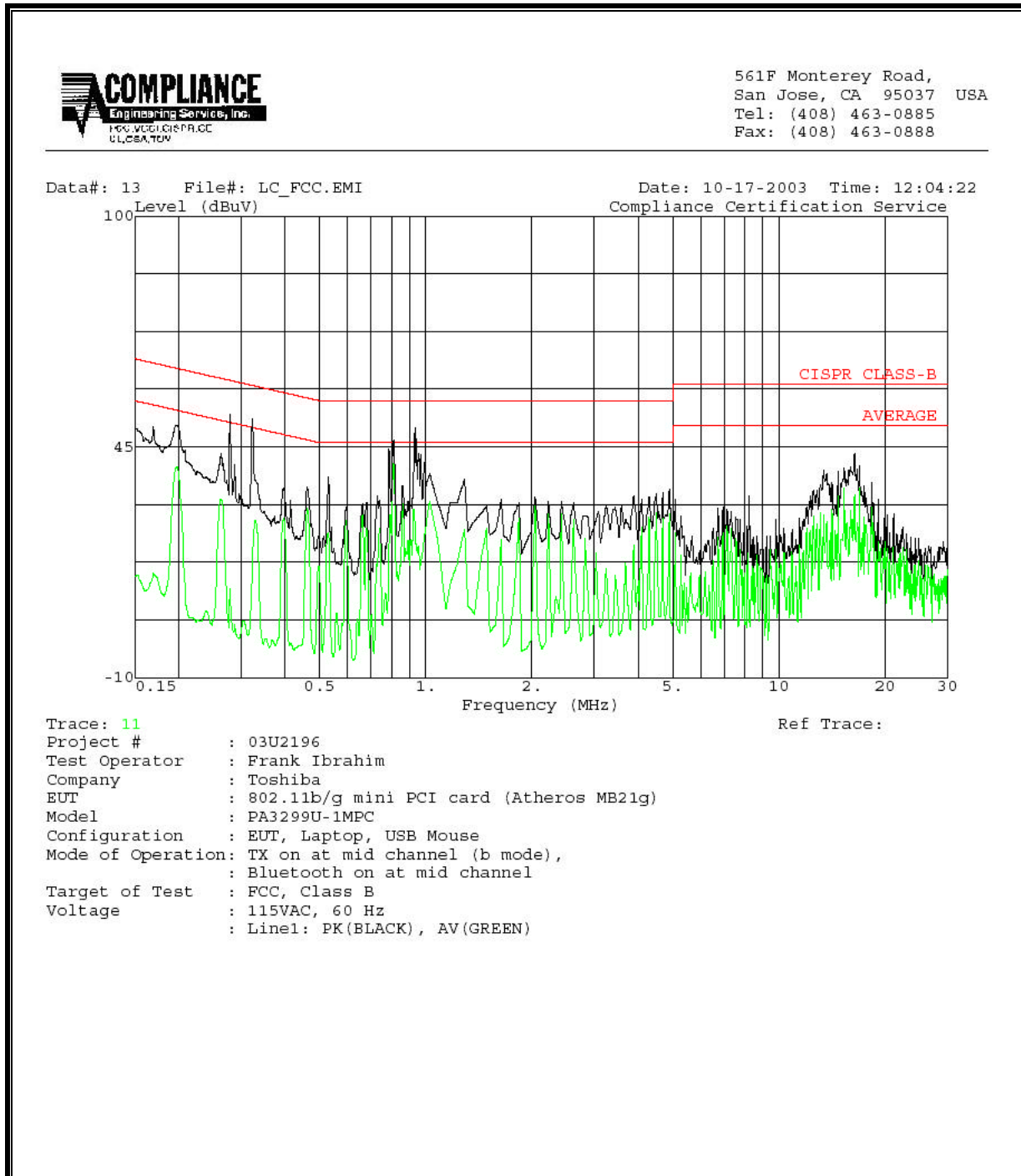
RESULTS

No non-compliance noted:

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
0.28	52.76	--	32.21	0.00	62.31	52.31	-9.55	-20.10	L1
0.32	51.64	--	27.31	0.00	61.06	51.06	-9.42	-23.75	L1
0.93	49.58	--	40.92	0.00	56.00	46.00	-6.42	-5.08	L1
0.81	51.20	--	45.22	0.00	56.00	46.00	-4.80	-0.78	L2
1.29	45.02	--	30.51	0.00	56.00	46.00	-10.98	-15.49	L2
13.62	45.82	--	34.83	0.00	60.00	50.00	-14.18	-15.17	L2
6 Worst Data									

LINE 1 RESULTS



LINE 2 RESULTS

