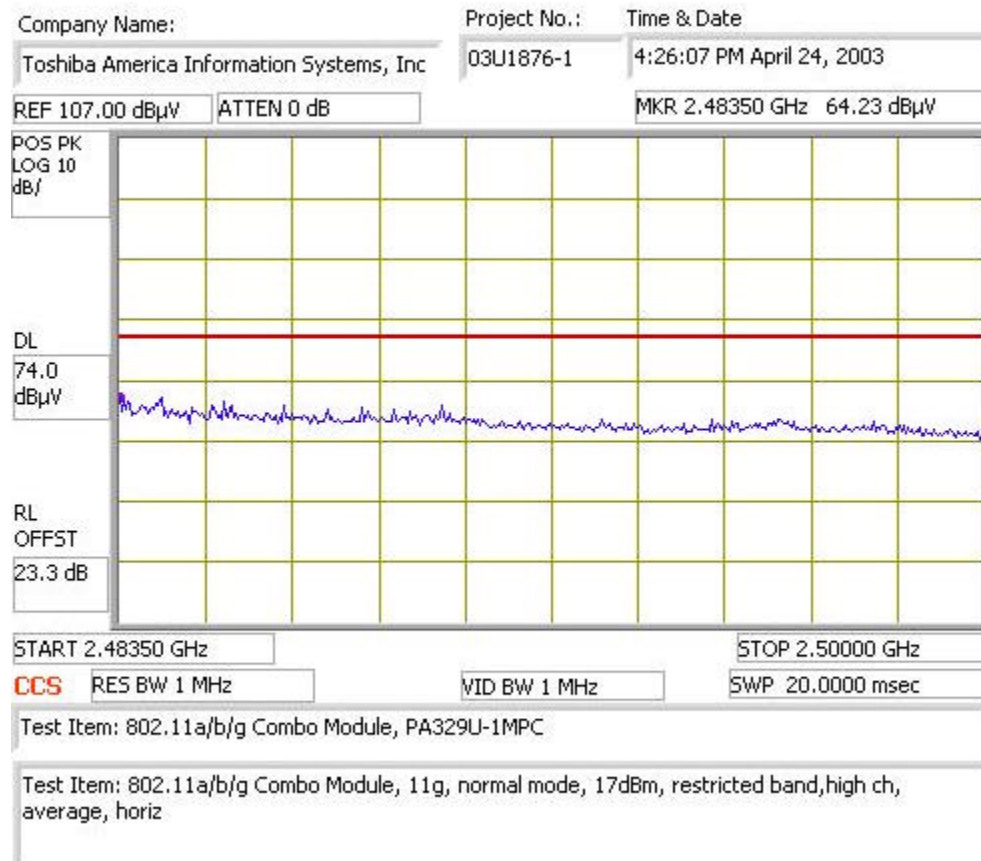
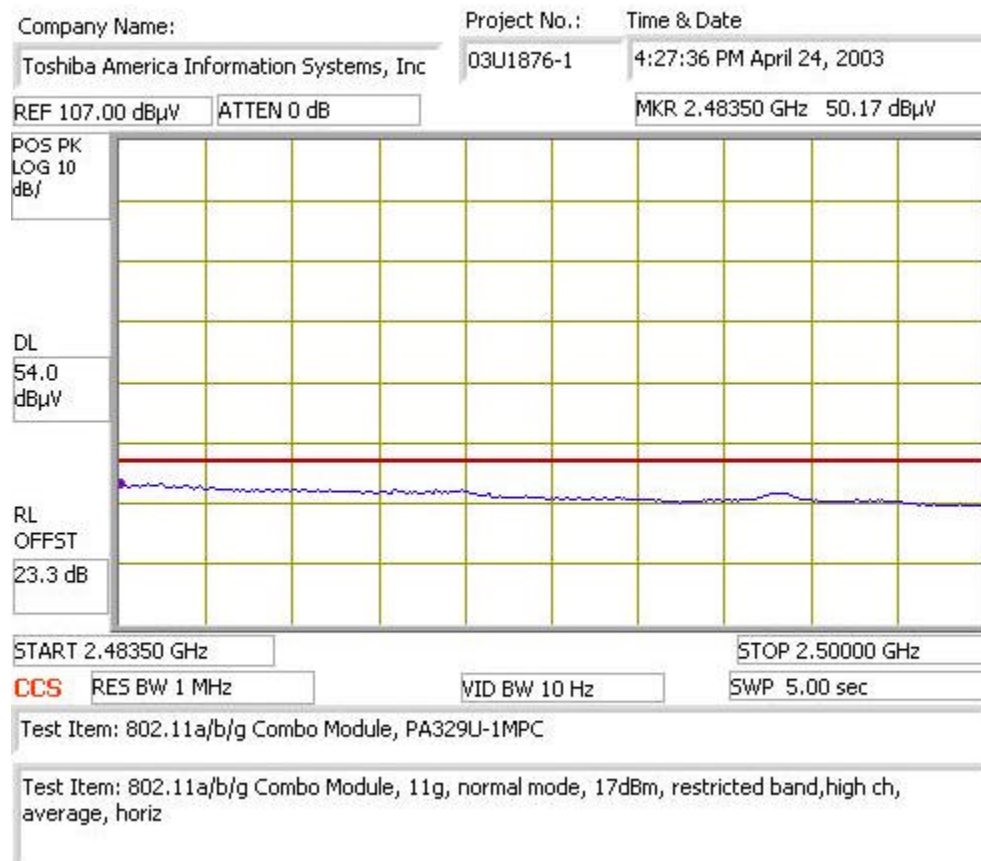
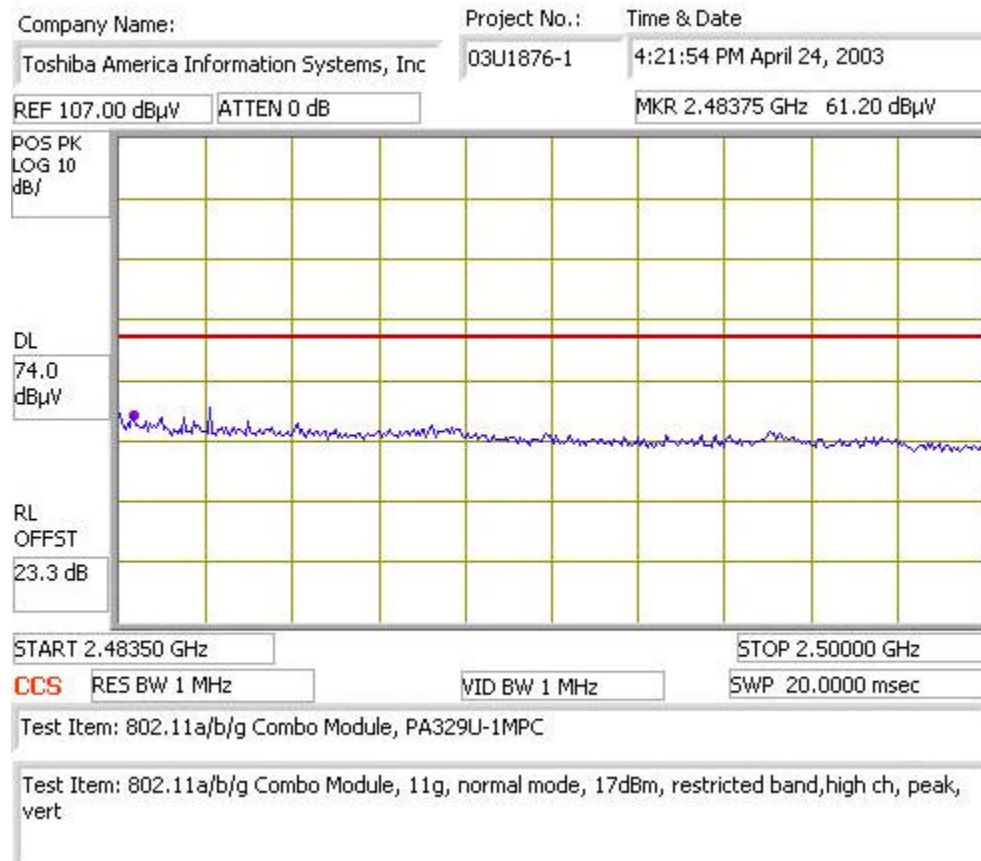


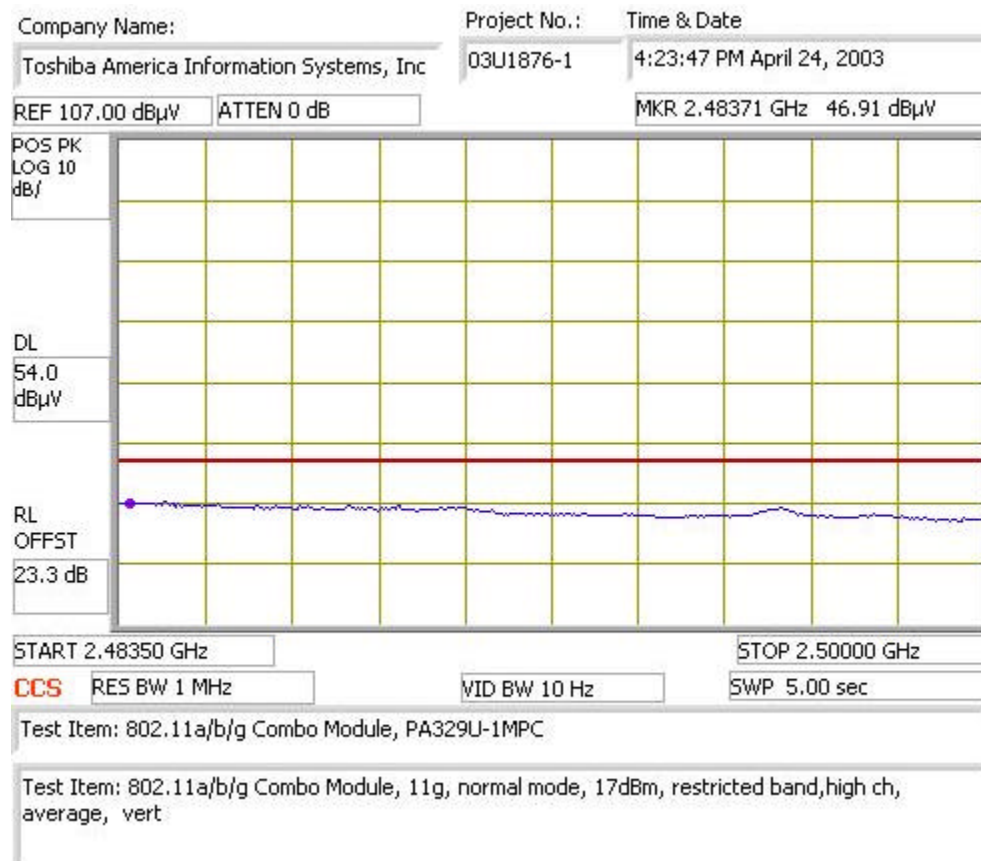
ADJACENT RESTRICTED BAND (g MODE, HIGH CHANNEL, HORIZONTAL)





ADJACENT RESTRICTED BAND (g MODE, HIGH CHANNEL, VERTICAL)





HARMONIC AND SPURIOUS RADIATED EMISSIONS (2.4 GHZ BAND, b MODE)

06/09/03 High Frequency Measurement
Compliance Certification Services, Morgan Hill Open Field Site

Test Engr: chin pang
Project #: 03u1876-1
Company: Toshiba America Information Systems, Inc.
EUT Descr.: 802.11a/b/g Combo Module
EUT M/N: PA3297U-IMPC
FCC class B
Mode Oper: Tx

Test Equipment:

EMCO Horn 1-18GHz	Pre-amplifier 1-26GHz	Spectrum Analyzer	Horn > 18GHz
T60; S/N: 2238 @3m	Miteq NSP2600-44	8593EM Analyzer	

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																																																																																
2.412	9.8	72.2		29.6	2.5	-36.3	0.0	0.0	67.9		74.0	54.0	-6.1		V																																																																																
2.412	9.8	73.3		29.6	2.5	-36.3	0.0	0.0	69.1		74.0	54.0	-4.9		H																																																																																
4.824	9.8	45.9	38.6	33.1	3.9	-36.1	0.0	1.0	47.9	40.6	74.0	54.0	-26.1	-13.4	V																																																																																
4.824	9.8	47.8	41.9	33.1	3.9	-36.1	0.0	1.0	49.8	43.8	74.0	54.0	-24.2	-10.2	H																																																																																
7.236	9.8	46.3	38.0	36.1	5.1	-36.3	0.0	1.0	52.2	43.9	74.0	54.0	-21.8	-10.1	V, noise floor																																																																																
7.236	9.8	47.9	38.0	36.1	5.1	-36.3	0.0	1.0	53.8	43.9	74.0	54.0	-20.2	-10.1	H, noise floor																																																																																
2.437	9.8			29.6	2.5	-36.3	0.0	0.0			74.0	54.0			V																																																																																
2.437	9.8			29.6	2.5	-36.3	0.0	0.0			74.0	54.0			H																																																																																
4.874	9.8	47.2	40.1	33.1	4.0	-36.1	0.0	1.0	49.2	42.1	74.0	54.0	-24.8	-11.9	V																																																																																
4.874	9.8	47.7	41.6	33.1	4.0	-36.1	0.0	1.0	49.7	43.6	74.0	54.0	-24.3	-10.4	H																																																																																
7.311	9.8	46.5	38.0	36.2	5.2	-36.3	0.0	1.0	52.6	44.1	74.0	54.0	-21.4	-9.9	V, noise floor																																																																																
7.311	9.8	48.4	38.5	36.2	5.2	-36.3	0.0	1.0	54.5	44.6	74.0	54.0	-19.5	-9.4	H, noise floor																																																																																
2.462	9.8			29.7	2.6	-36.3	0.0	0.0			74.0	54.0			V																																																																																
2.462	9.8			29.7	2.6	-36.3	0.0	0.0			74.0	54.0			H																																																																																
4.924	9.8	43.8	34.0	33.2	4.0	-36.1	0.0	1.0	45.9	36.1	74.0	54.0	-28.1	-17.9	V																																																																																
4.924	9.8	45.5	37.0	33.2	4.0	-36.1	0.0	1.0	47.6	39.1	74.0	54.0	-26.4	-14.9	H																																																																																
7.386	9.8	46.2	38.0	36.3	5.2	-36.2	0.0	1.0	52.5	44.3	74.0	54.0	-21.5	-9.7	V, noise floor																																																																																
7.386	9.8	47.4	38.0	36.3	5.2	-36.2	0.0	1.0	53.7	44.3	74.0	54.0	-20.3	-9.7	H, noise floor																																																																																
<table><tr><td>f</td><td>Measurement Frequency</td><td>Amp</td><td>Preamp Gain</td><td>Avg Lim</td><td>Average Field Strength Limit</td><td colspan="10"></td></tr><tr><td>Dist</td><td>Distance to Antenna</td><td>D Corr</td><td>Distance Correct to 3 meters</td><td>Pk Lim</td><td>Peak Field Strength Limit</td><td colspan="10"></td></tr><tr><td>Read</td><td>Analyzer Reading</td><td>Avg</td><td>Average Field Strength @ 3 m</td><td>Avg Mar</td><td>Margin vs. Average Limit</td><td colspan="10"></td></tr><tr><td>AF</td><td>Antenna Factor</td><td>Peak</td><td>Calculated Peak Field Strength</td><td>Pk Mar</td><td>Margin vs. Peak Limit</td><td colspan="10"></td></tr><tr><td>CL</td><td>Cable Loss</td><td>HPF</td><td>High Pass Filter</td><td colspan="12"></td></tr></table>																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												
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																																																																																												

HARMONIC AND SPURIOUS RADIATED EMISSIONS (2.4 GHZ BAND, g MODE)

06/09/03 High Frequency Measurement
Compliance Certification Services, Morgan Hill Open Field Site

Test Engr: chin pang
Project #: 03u1876-1
Company: Toshiba America Information Systems, Inc.
EUT Descri.: 802.11a/b/g Combo Module
EUT M/N: PA3297U-1MPC
FCC class B
Mode Oper: Tx

Test Equipment:

EMCO Horn 1-18GHz	Pre-amplifier 1-26GHz	Spectrum Analyzer	Horn > 18GHz
T60; S/N: 2238 @3m	Miteq NSP2600-44	8593EM Analyzer	

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

11g, normal mode

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
Transmitting at low Channel															
4.824	9.8	57.4	42.8	33.1	3.9	-36.1	0.0	1.0	59.4	44.8	74.0	54.0	-14.6	-9.2	V
4.824	9.8	55.9	42.5	33.1	3.9	-36.1	0.0	1.0	57.8	44.5	74.0	54.0	-16.2	-9.5	H
7.236	9.8	53.4	41.7	36.1	5.1	-36.3	0.0	1.0	59.3	47.6	74.0	54.0	-14.7	-6.4	V
7.236	9.8	56.5	42.5	36.1	5.1	-36.3	0.0	1.0	62.4	48.4	74.0	54.0	-11.6	-5.6	H
Transmitting at Mid Channel															
4.874	9.8	53.4	41.7	33.1	4.0	-36.1	0.0	1.0	55.4	43.7	74.0	54.0	-18.6	-10.3	V
4.874	9.8	53.3	41.6	33.1	4.0	-36.1	0.0	1.0	55.3	43.6	74.0	54.0	-18.7	-10.4	H
7.311	9.8	54.8	41.8	36.2	5.2	-36.3	0.0	1.0	60.9	47.9	74.0	54.0	-13.1	-6.1	V
7.311	9.8	54.5	41.7	36.2	5.2	-36.3	0.0	1.0	60.6	47.8	74.0	54.0	-13.4	-6.2	H
Transmitting at high Channel															
4.924	9.8	52.6	39.6	33.2	4.0	-36.1	0.0	1.0	54.7	41.7	74.0	54.0	-19.3	-12.3	V
4.924	9.8	51.3	39.2	33.2	4.0	-36.1	0.0	1.0	53.4	41.3	74.0	54.0	-20.6	-12.7	H
7.386	9.8	52.8	39.6	36.3	5.2	-36.2	0.0	1.0	59.1	45.9	74.0	54.0	-14.9	-8.1	V, noise floor
7.386	9.8	51.5	39.4	36.3	5.2	-36.2	0.0	1.0	57.8	45.7	74.0	54.0	-16.2	-8.3	H, noise floor
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							

HARMONIC AND SPURIOUS RADIATED EMISSIONS (2.4 GHZ BAND, g TURBO MODE)

06/09/03 High Frequency Measurement
Compliance Certification Services, Morgan Hill Open Field Site

Test Engr: chin pang
Project #: 03u1876-1
Company: Toshiba America Information Systems, Inc.
EUT Descr.: 802.11a/b/g Combo Module
EUT M/N: PA3297U-1MPC
FCC class B
Mode Oper: Tx

Test Equipment:

EMCO Horn 1-18GHz	Pre-amplifier 1-26GHz	Spectrum Analyzer	Horn > 18GHz
T60; S/N: 2238 @3m	Miteq NSP2600-44	8593EM Analyzer	

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

11g, Turbo Mode

Fig. 14-10															
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06/05/03 **High Frequency Measurement**
Compliance Certification Services, Morgan Hill Open Field Site

Test Engr: VIEN TRAN
Project #: 03U1876-1/2/3
Company: TOSHIBA
EUT Descr.p.: 802.11a/b/g Combo Module
EUT M/N: PA3297U-1MPC
Test Target: FCC15.247/IC/DGT (5.8 GHz)
Mode Oper: Tx at Low. Mid. Hi Ch's Normal Mode & Turbo Mode

Test Equipment:

EMCO Horn 1-18GHz	Pre-amplifier 1-26GHz	Spectrum Analyzer	Horn > 18GHz
T72; S/N: 6739 @3m	HP 8449B	8566B Analyzer	T87 ARA 18-26GHz & Mixer > 26GHz
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

Page 93 of 117

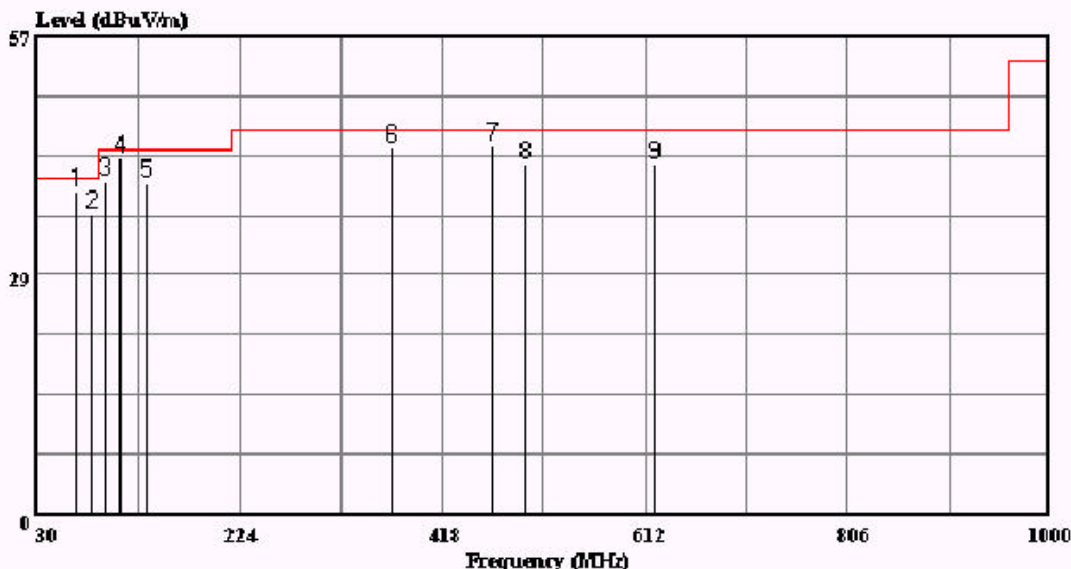
SPURIOUS RADIATED EMISSIONS BELOW 1 GHZ (WORST-CASE CONFIGURATION)



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

Data#: 18 File#: 1876 normal.EMI

Date: 05-09-2003 Time: 15:39:24



(Audix ATC)

Trace:

Ref Trace:

Condition: FCC CLASS-B 3m CHAMBER 030306 1185 HORIZONTAL
Company : TOSHIBA AMERICA INFORMATION SYSTEM INC.
EUT Description : 802.11a/b/g Combo module
Model Number : PA3297U-1MPC
Test Configuration: EUC on extender board/laptop
Test Target : 802.11b, Normal Mode (Mid Ch)
Mode of Operation: Worst case Tx Mode
Project No : 03U1876-1
 : 2.4GHz Band

Page: 1

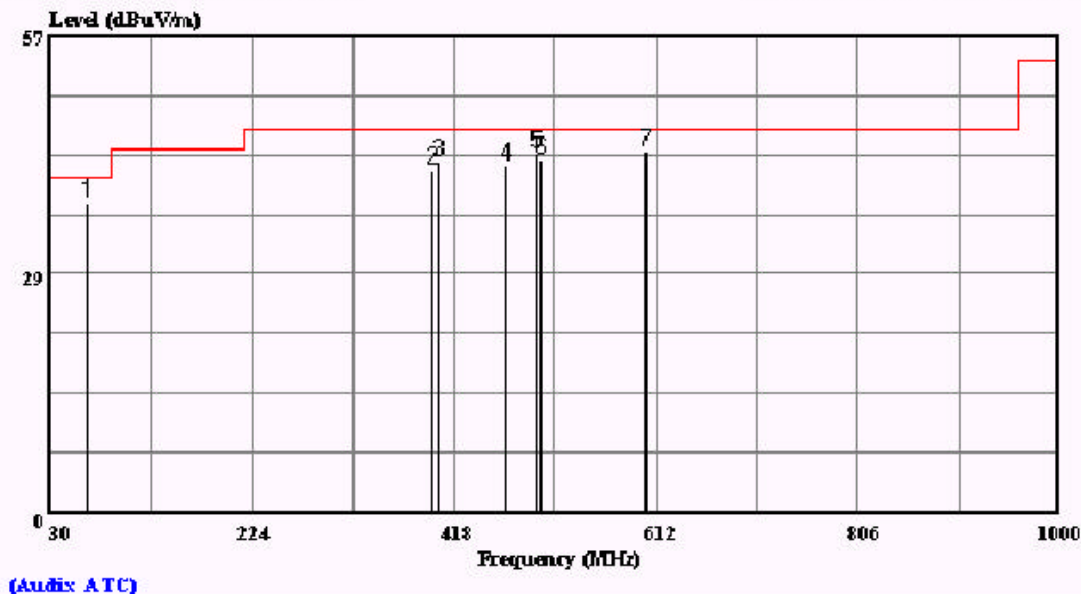
	Freq	Read Level	Probe Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dB	dBuV/m	dBuV/m	dB	
1	67.830	29.07	8.68	0.79	0.00	38.54	40.00	-1.46	Peak
2	82.380	28.12	6.84	0.84	0.00	35.80	40.00	-4.20	Peak
3	94.990	30.47	8.45	0.91	0.00	39.83	43.50	-3.67	Peak
4	109.540	31.64	9.71	1.01	0.00	42.36	43.50	-1.14	Peak
5	133.790	28.96	9.40	1.11	0.00	39.47	43.50	-4.03	Peak
6	368.530	27.99	13.77	1.96	0.00	43.72	46.00	-2.28	Peak
7	465.530	25.74	15.87	2.25	0.00	43.86	46.00	-2.14	Peak
8	497.540	23.02	16.50	2.29	0.00	41.81	46.00	-4.19	Peak
9	620.730	21.26	17.88	2.58	0.00	41.72	46.00	-4.28	Peak



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

Data#: 15 File#: 1876 normal.EMI

Date: 05-09-2003 Time: 15:33:08



Trace:

Ref Trace:

Condition: FCC CLASS-B 3m CHAMBER 030306 1185 VERTICAL
Company : TOSHIBA AMERICA INFORMATION SYSTEM INC.
EUT Description : 802.11a/b/g Combo module
Model Number : PA3297U-1MPC
Test Configuration: EUC on extender board/laptop
Test Target : 802.11b, Normal Mode (Mid Ch)
Mode of Operation: Worst case Tx Mode
Project No : 03U1876-1
: 2.4GHz Band

Page: 1

	Freq	Read Level	Probe Factor	Cable Loss	Preamplifier Factor	Limit Level	Over Limit	Remark
	MHz	dBuV	dB	dB	dB	dBuV/m	dBuV/m	dB
1	65.890	26.95	9.38	0.77	0.00	37.10	40.00	-2.90 Peak
2	397.630	24.60	14.39	2.01	0.00	41.00	46.00	-5.00 Peak
3	402.480	25.41	14.50	2.01	0.00	41.92	46.00	-4.08 Peak
4	468.440	23.19	15.94	2.22	0.00	41.35	46.00	-4.65 Peak
5	497.540	24.04	16.50	2.29	0.00	42.83	46.00	-3.17 Peak
6	502.390	23.39	16.57	2.31	0.00	42.27	46.00	-3.73 Peak
7	601.330	22.98	17.70	2.54	0.00	43.22	46.00	-2.78 Peak

7.7. CO-LOCATED RADIATED EMISSIONS

TEST SETUP

The EUT is placed on the wooden table. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.4.

Both transmitters in the EUT are set to transmit simultaneously in a continuous mode.

TEST PROCEDURE

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.

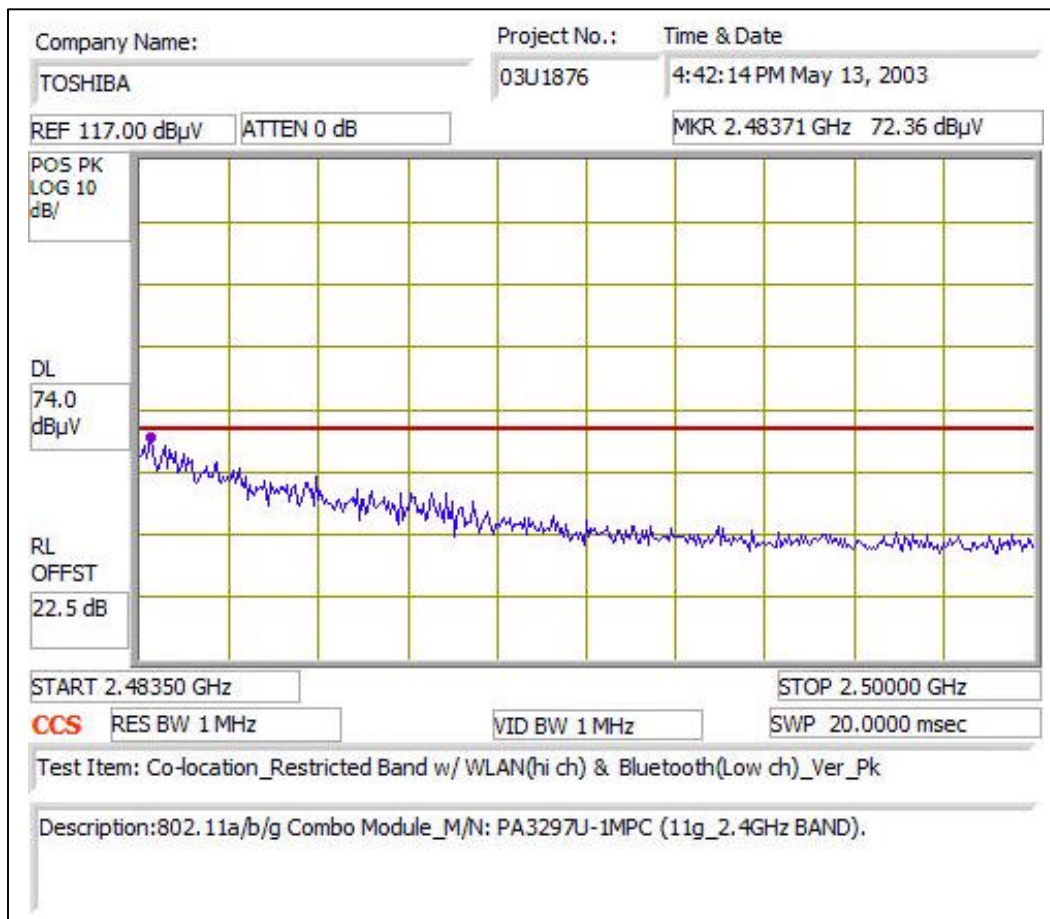
For measurements above 1 GHz within restricted bands, the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 1 MHz for peak measurements and 10 Hz for average measurements.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The frequency span is set small enough to easily differentiate between broadcast stations, intermittent ambient signals and EUT emissions. 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 suspected signal. Measurements were made with the antenna polarized in both the vertical and the horizontal positions.

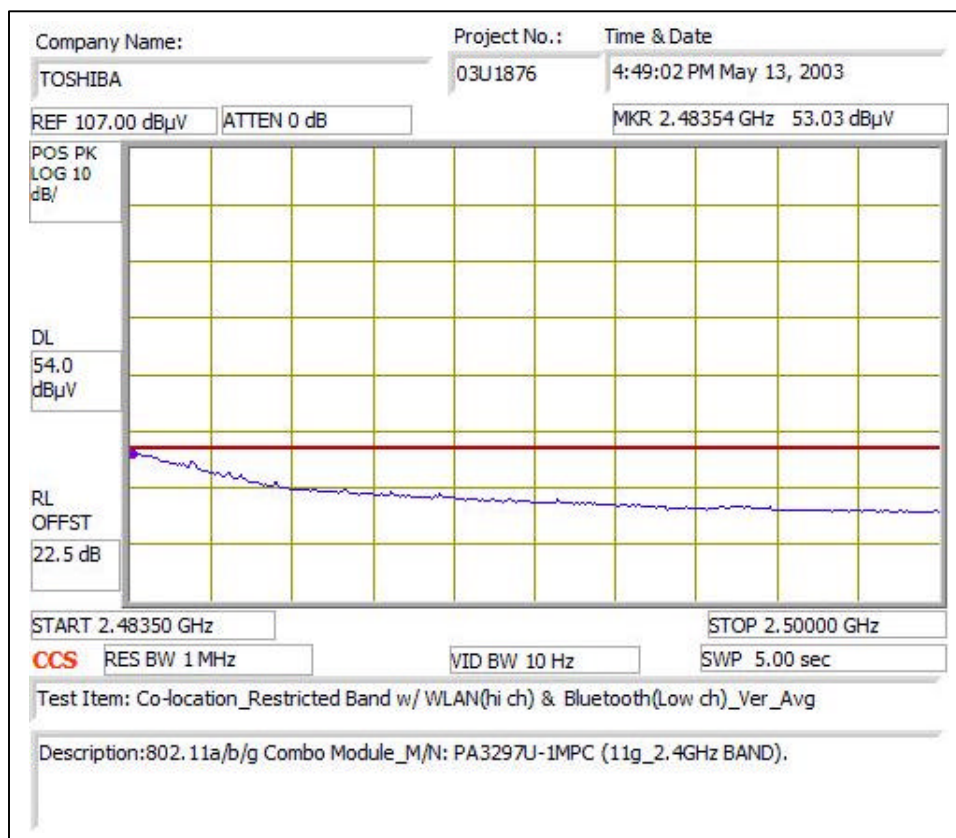
TEST RESULTS

Worst-case results are reported. No non-compliance noted:

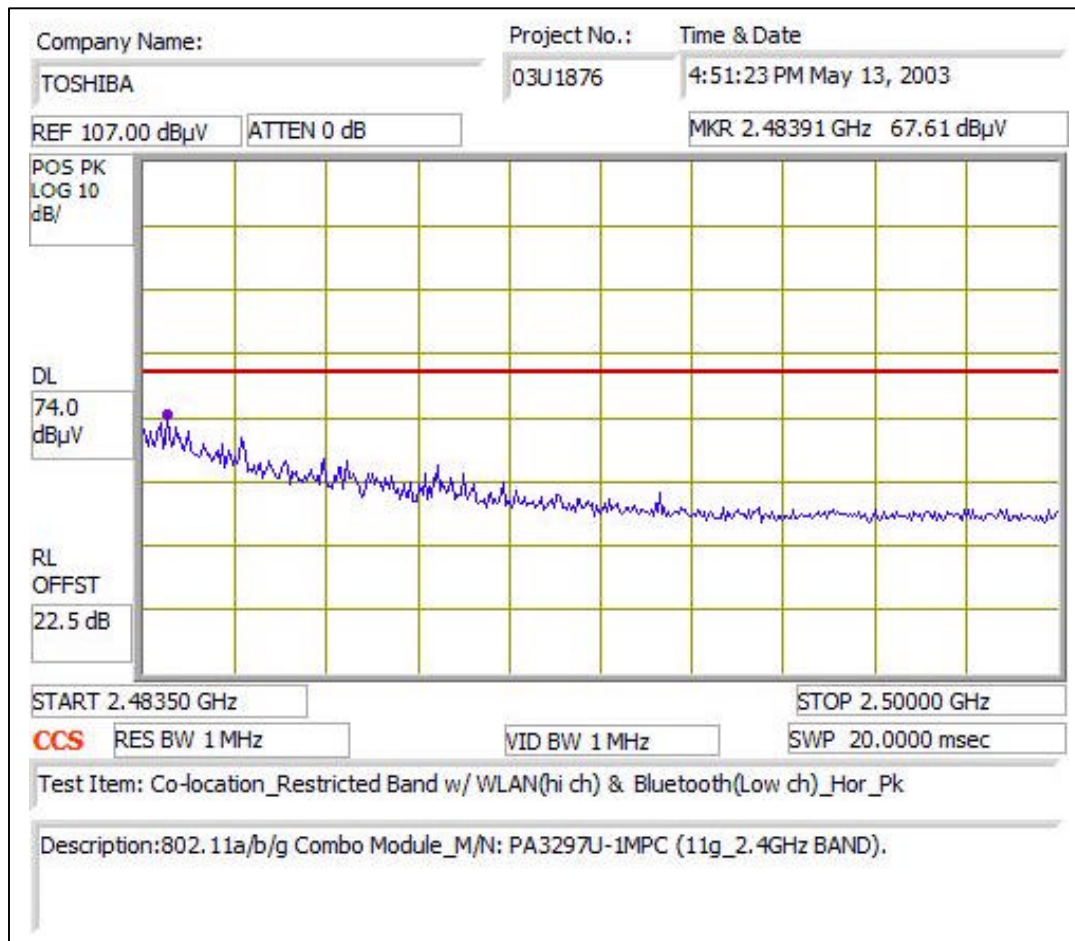
**WORST CASE RESTRICTED BAND WITH WLAN OPERATING AT THE WORST-CASE CHANNEL
AND THE CO-LOCATED BLUETOOTH OPERATING SIMULTANEOUSLY AT THE LOW FREQUENCY
CHANNEL – VERTICAL PEAK**



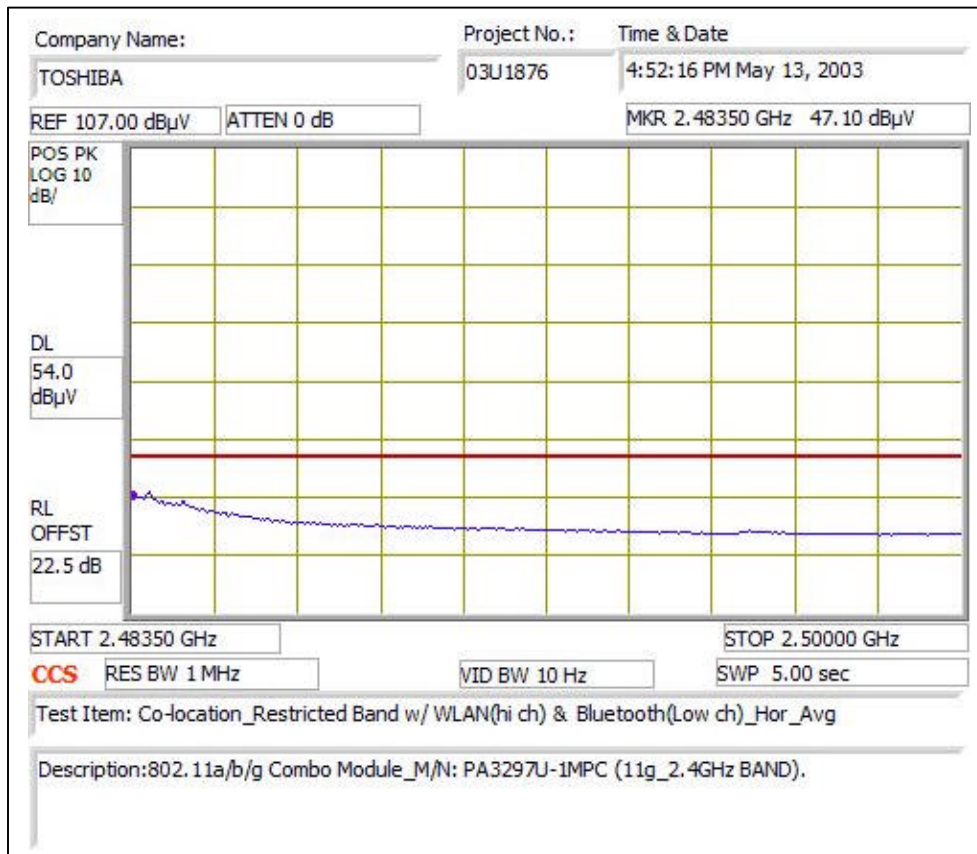
**WORST CASE RESTRICTED BAND WITH WLAN OPERATING AT THE WORST-CASE CHANNEL
AND THE CO-LOCATED BLUETOOTH OPERATING SIMULTANEOUSLY AT THE LOW FREQUENCY
CHANNEL – VERTICAL AVERAGE**



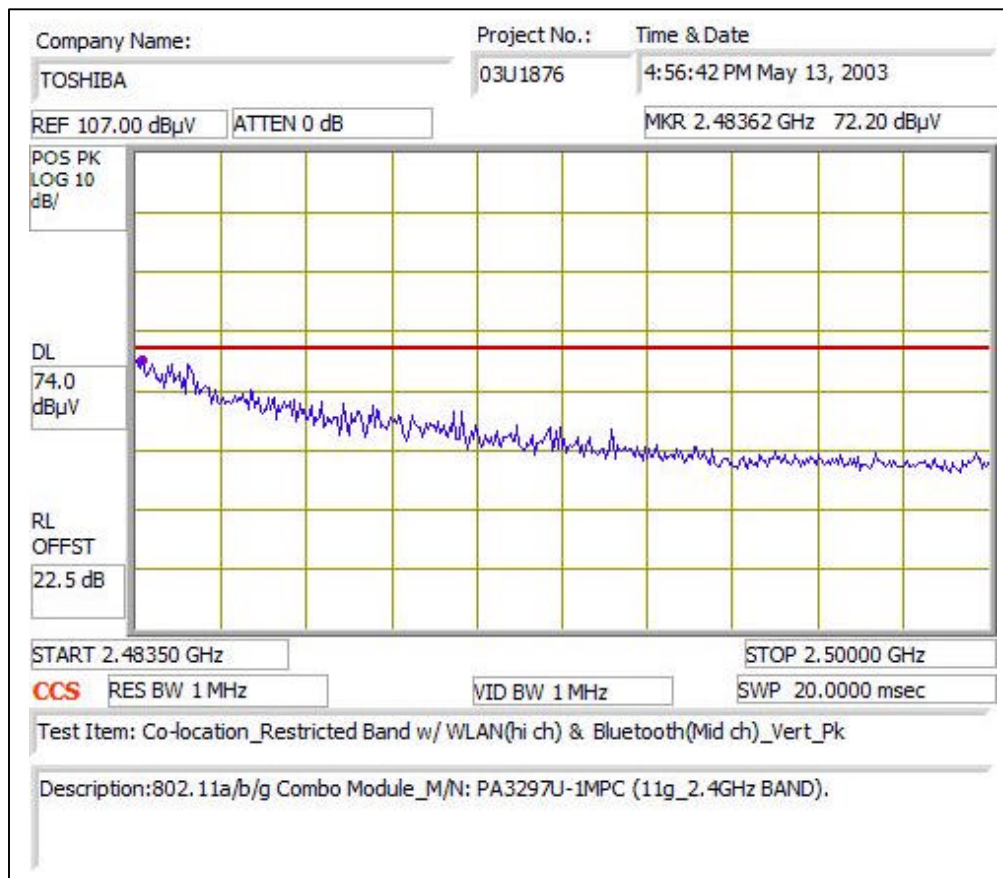
**WORST CASE RESTRICTED BAND WITH WLAN OPERATING AT THE WORST-CASE CHANNEL
AND THE CO-LOCATED BLUETOOTH OPERATING SIMULTANEOUSLY AT THE LOW FREQUENCY
CHANNEL – HORIZONTAL PEAK**



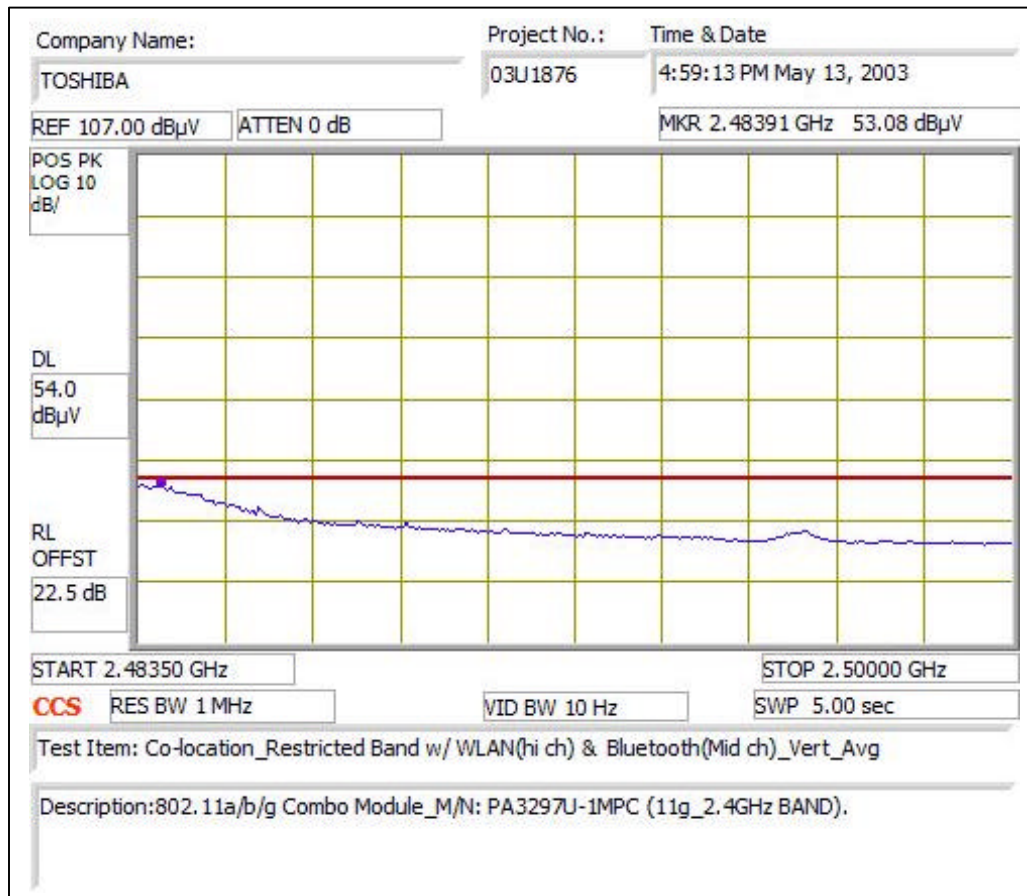
**WORST CASE RESTRICTED BAND WITH WLAN OPERATING AT THE WORST-CASE CHANNEL
AND THE CO-LOCATED BLUETOOTH OPERATING SIMULTANEOUSLY AT THE LOW FREQUENCY
CHANNEL – HORIZONTAL AVERAGE**



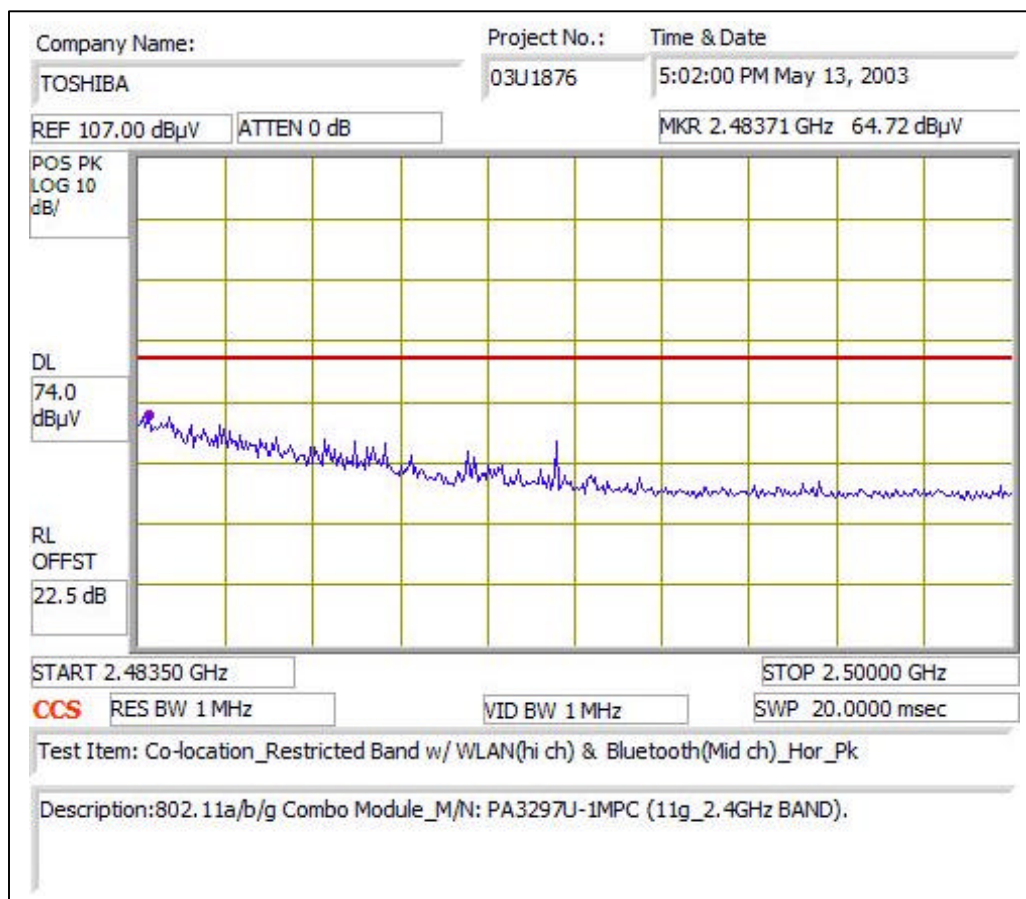
**WORST CASE RESTRICTED BAND WITH WLAN OPERATING AT THE WORST-CASE CHANNEL
AND THE CO-LOCATED BLUETOOTH OPERATING SIMULTANEOUSLY AT THE MID FREQUENCY
CHANNEL – VERTICAL PEAK**



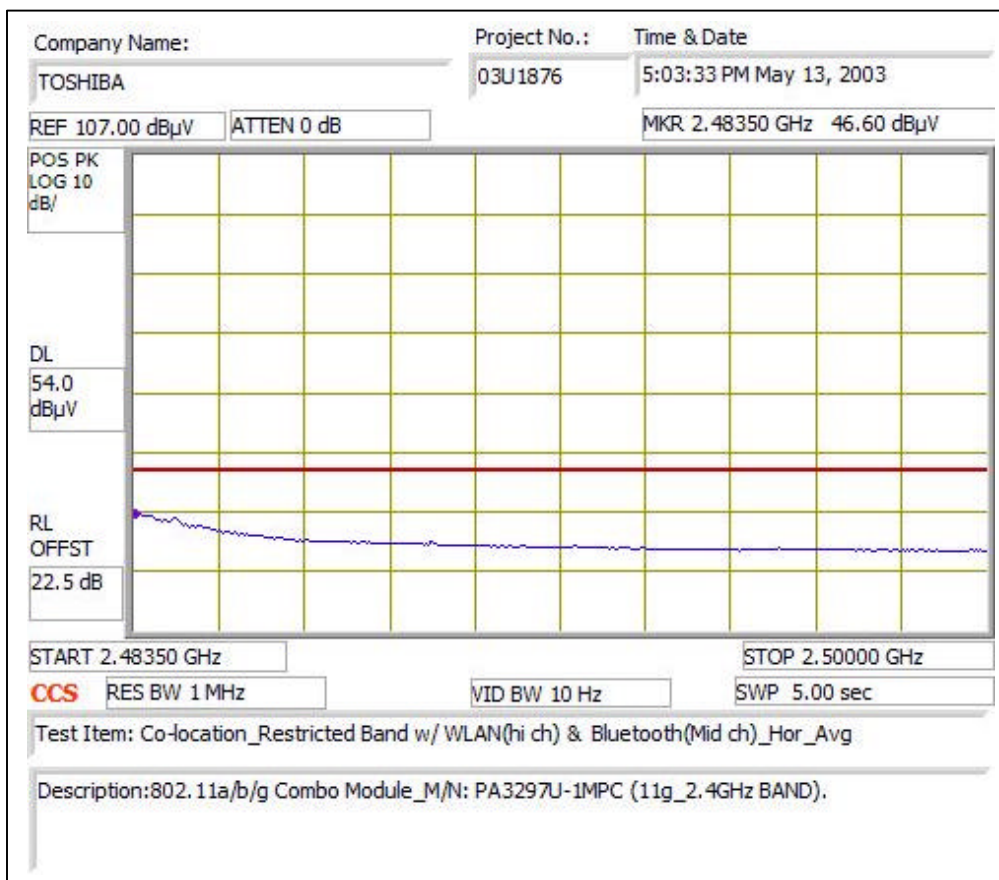
**WORST CASE RESTRICTED BAND WITH WLAN OPERATING AT THE WORST-CASE CHANNEL
AND THE CO-LOCATED BLUETOOTH OPERATING SIMULTANEOUSLY AT THE MID FREQUENCY
CHANNEL – VERTICAL AVERAGE**



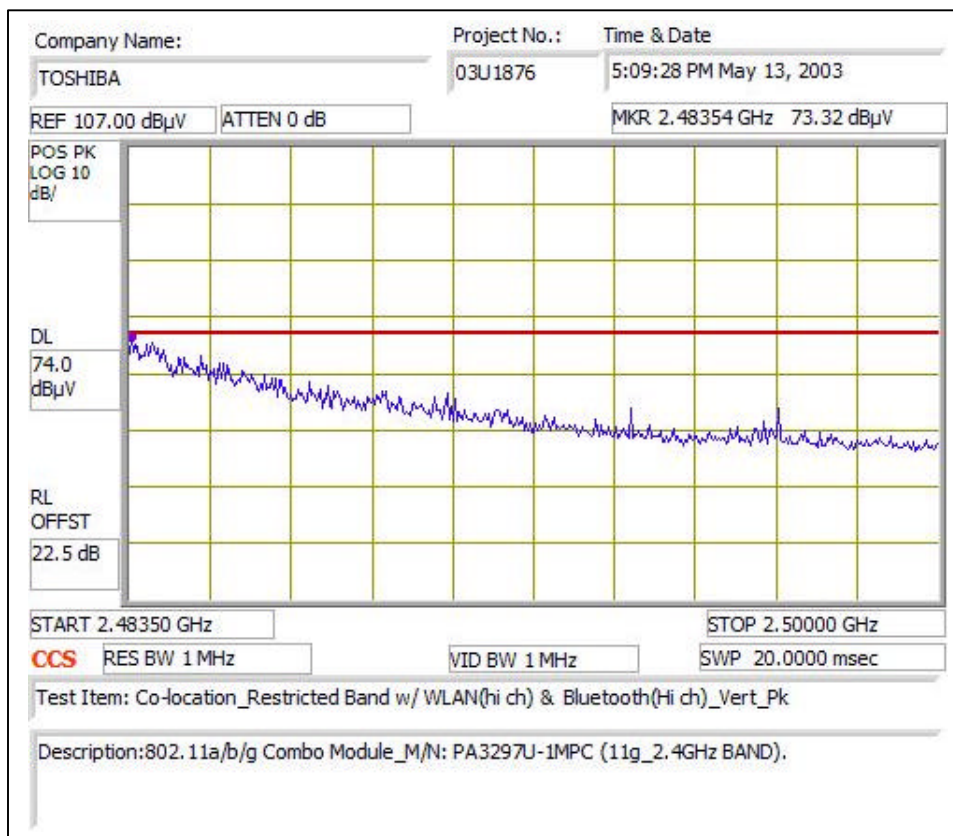
**WORST CASE RESTRICTED BAND WITH WLAN OPERATING AT THE WORST-CASE CHANNEL
AND THE CO-LOCATED BLUETOOTH OPERATING SIMULTANEOUSLY AT THE MID FREQUENCY
CHANNEL – HORIZONTAL PEAK**



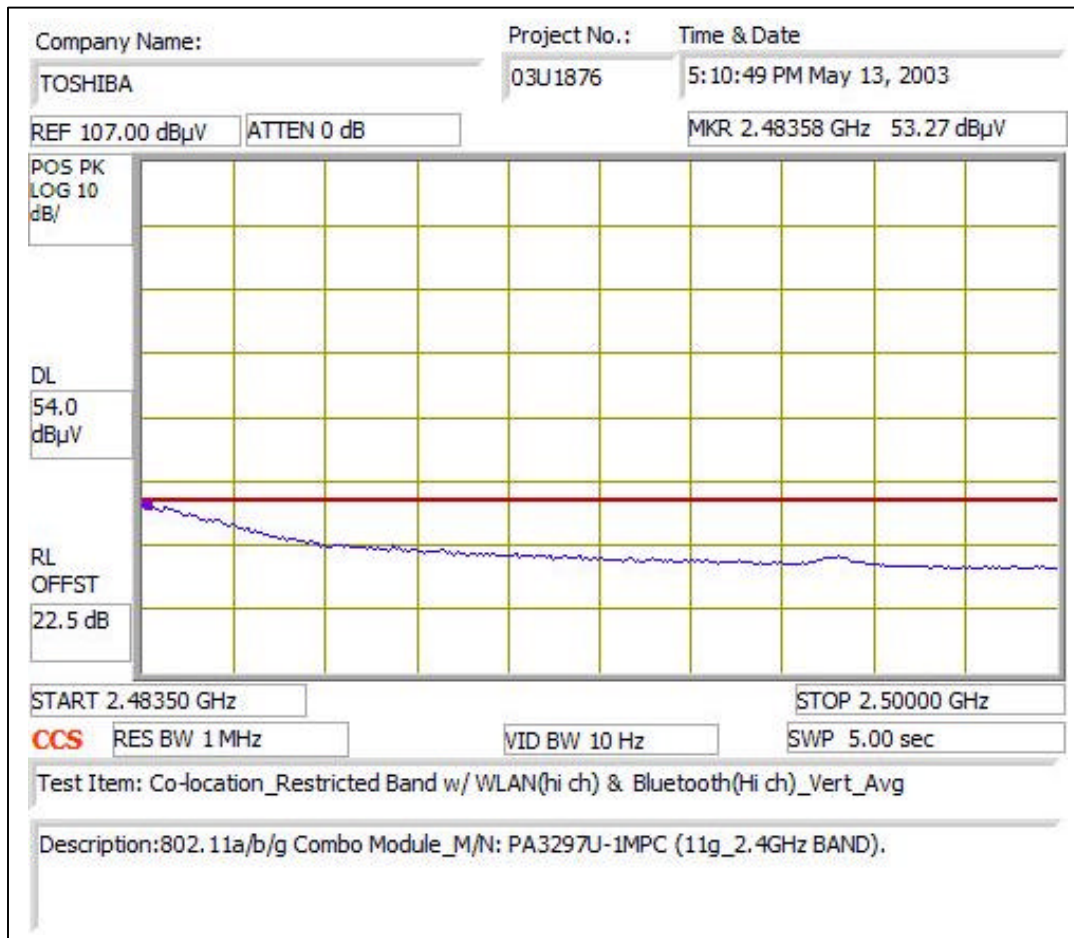
**WORST CASE RESTRICTED BAND WITH WLAN OPERATING AT THE WORST-CASE CHANNEL
AND THE CO-LOCATED BLUETOOTH OPERATING SIMULTANEOUSLY AT THE MID FREQUENCY
CHANNEL – HORIZONTAL AVERAGE**



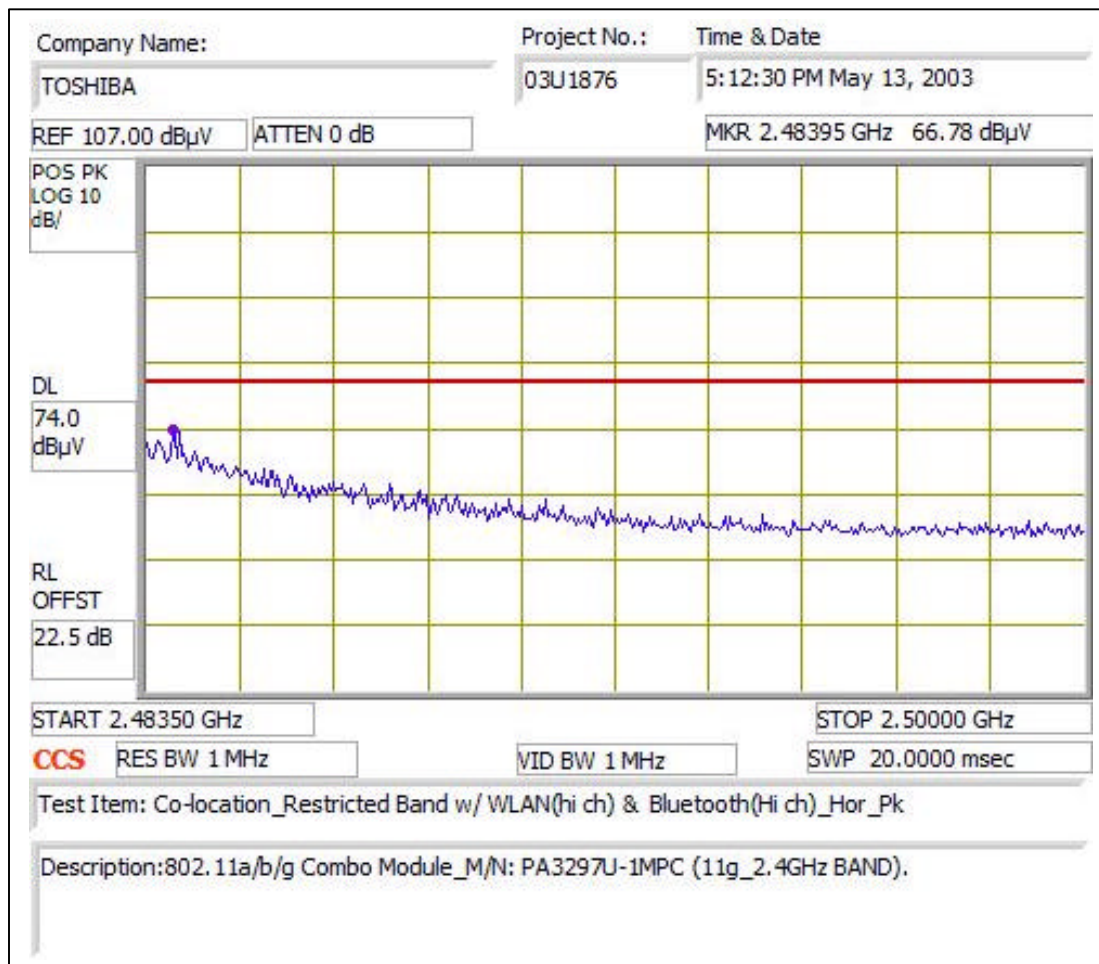
**WORST CASE RESTRICTED BAND WITH WLAN OPERATING AT THE WORST-CASE CHANNEL
AND THE CO-LOCATED BLUETOOTH OPERATING SIMULTANEOUSLY AT THE HIGH
FREQUENCY CHANNEL – VERTICAL -- PEAK**



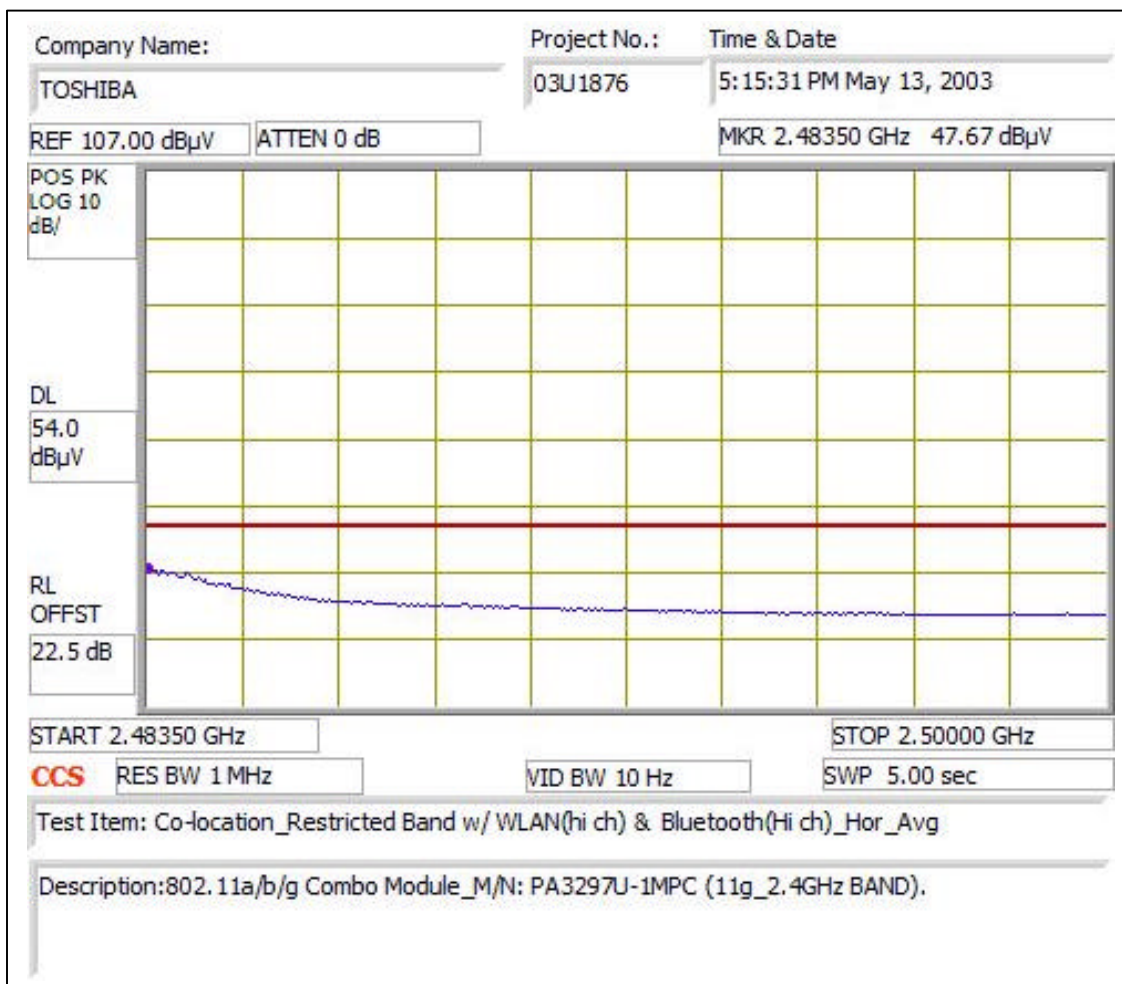
**WORST CASE RESTRICTED BAND WITH WLAN OPERATING AT THE WORST-CASE CHANNEL
AND THE CO-LOCATED BLUETOOTH OPERATING SIMULTANEOUSLY AT THE HIGH
FREQUENCY CHANNEL – VERTICAL AVERAGE**



**WORST CASE RESTRICTED BAND WITH WLAN OPERATING AT THE WORST-CASE CHANNEL
AND THE CO-LOCATED BLUETOOTH OPERATING SIMULTANEOUSLY AT THE HIGH
FREQUENCY CHANNEL - HORIZONTAL PEAK**



**WORST CASE RESTRICTED BAND WITH WLAN OPERATING AT THE WORST-CASE CHANNEL
AND THE CO-LOCATED BLUETOOTH OPERATING SIMULTANEOUSLY AT THE HIGH
FREQUENCY CHANNEL – HORIZONTAL AVERAGE**



WORST CASE HARMONICS AND SPURIOUS WITH CO-LOCATED BLUETOOTH AND WLAN

05/13/03 High Frequency Measurement
Compliance Certification Services, Morgan Hill Open Field Site

Test Engr: VIEN TRAN
Project #: 03U1867-2
Company: TOSHIBA
EUT Descr.: 802.11a/b/g Combo Module
EUT M/N: M/N3297U-1MPC
Test Target: FCC 15.247 (Co-Location)
Mode Oper: Tx at H Channel (Worst case Harmonics and Spurious) _11g Hi channel 2.4GHz

Test Equipment:

EMCO Horn 1-18GHz	Pre-amplifier 1-26GHz	Spectrum Analyzer	Horn > 18GHz
T73; S/N: 6717 @3m	Miteq NSP2600-44	8593EM Analyzer	

Hi Frequency Cables

☐ (2 ft)	☐ (2 ~ 3 ft)	☒ (4 ~ 6 ft)	☒ (12 ft)
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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
WLAN WORST-CASE CH (2.462GHz) WITH BLUETOOTH LOW CH (2.402GHz)															
4.924	9.8	47.0	33.1	33.5	3.5	-36.1	0.0	1.0	48.8	34.9	74.0	54.0	-25.2	-19.1	V
7.386	9.8	46.7	32.3	36.0	4.4	-36.2	0.0	1.0	51.9	37.4	74.0	54.0	-22.1	-16.6	V
4.924	9.8	46.1	33.4	33.5	3.5	-36.1	0.0	1.0	47.9	35.2	74.0	54.0	-26.1	-18.8	H
7.386	9.8	45.6	33.0	36.0	4.4	-36.2	0.0	2.0	51.8	39.1	74.0	54.0	-22.2	-14.9	H
NO OTHER EMSSION FOUND AFTER 3rd HARMONIC															
WLAN WORST-CASE CH (2.462GHz) WITH BLUETOOTH MID CH (2.441GHz)															
4.924	9.8	45.4	32.5	33.5	3.5	-36.1	0.0	1.0	47.2	34.3	74.0	54.0	-26.8	-19.7	V
7.386	9.8	46.0	32.7	36.0	4.4	-36.2	0.0	1.0	51.1	37.8	74.0	54.0	-22.9	-16.2	V
4.924	9.8	43.2	30.7	33.5	3.5	-36.1	0.0	1.0	45.0	32.5	74.0	54.0	-29.0	-21.5	H
7.386	9.8	42.0	29.1	36.0	4.4	-36.2	0.0	1.0	47.2	34.2	74.0	54.0	-26.8	-19.8	H
NO OTHER EMSSION FOUND AFTER 3rd HARMONIC															
WLAN WORST-CASE CH (2.462GHz) WITH BLUETOOTH HIGH CH (2.480GHz)															
4.924	9.8	45.1	32.7	33.5	3.5	-36.1	0.0	1.0	46.9	34.5	74.0	54.0	-27.1	-19.5	V
7.386	9.8	45.9	33.1	36.0	4.4	-36.2	0.0	1.0	51.1	38.2	74.0	54.0	-22.9	-15.8	V
4.924	9.8	42.1	29.1	33.5	3.5	-36.1	0.0	1.0	43.9	30.9	74.0	54.0	-30.1	-23.1	H
7.386	9.8	43.8	32.0	36.0	4.4	-36.2	0.0	1.0	48.9	37.1	74.0	54.0	-25.1	-16.9	H
NO OTHER EMSSION FOUND AFTER 3rd HARMONIC															
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								

7.8. 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.

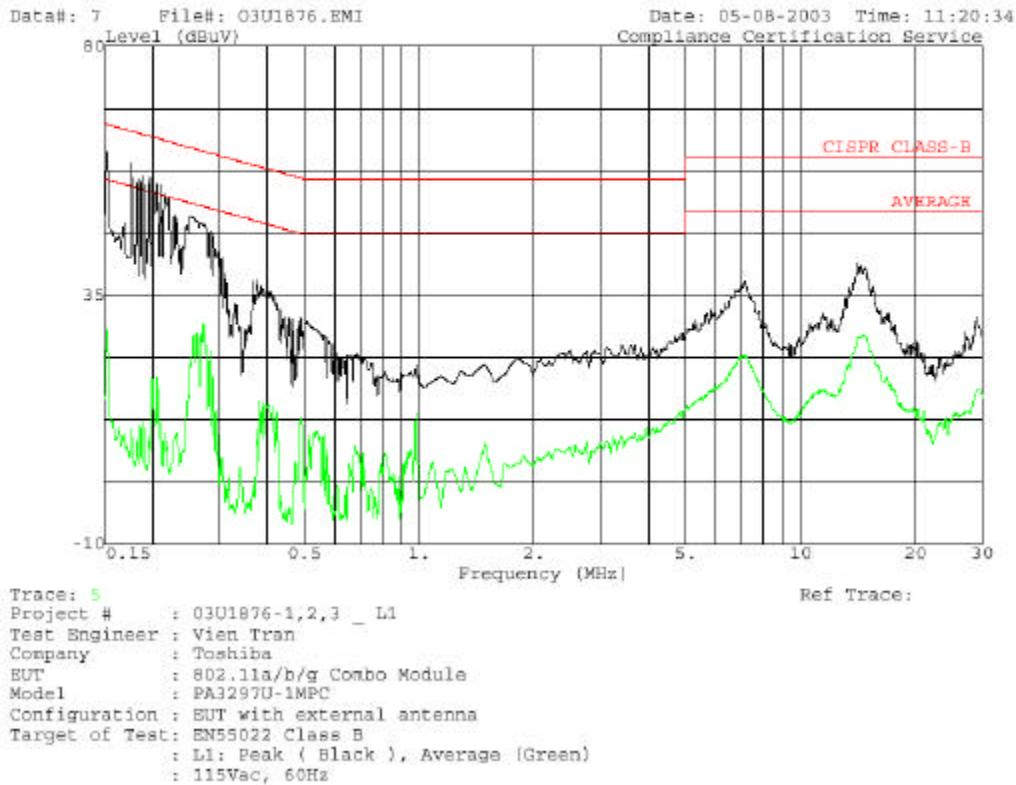
RESULTS

No non-compliance noted:

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
0.15	61.18	--	29.00	0.00	65.94	55.94	-4.76	-26.94	L1
0.26	49.27	--	30.77	0.00	62.86	52.86	-13.59	-22.09	L1
14.36	40.20	--	24.80	0.00	60.00	50.00	-19.80	-25.20	L1
0.15	59.34	--	41.70	0.00	65.94	55.94	-6.60	-14.24	L2
0.26	45.26	--	24.45	0.00	62.86	52.86	-17.60	-28.41	L2
14.36	40.98	--	28.39	0.00	60.00	50.00	-19.02	-21.61	L2
6 Worst Data									



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





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