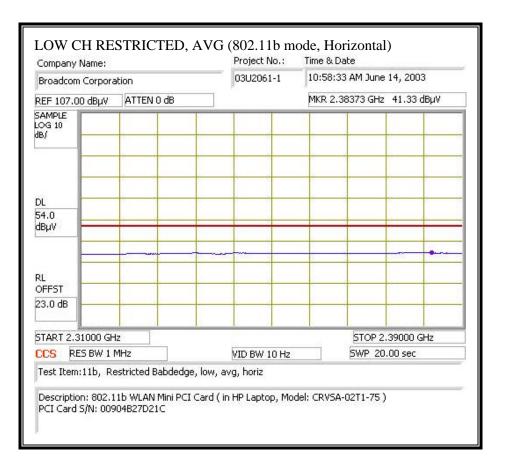
7.6.2. RADIATED EMISSIONS WITH CRVSA-02T-75 HOST COMPUTER:

RESTRICTED BANDEDGE (b MODE, LOW CHANNEL, HORIZONTAL)

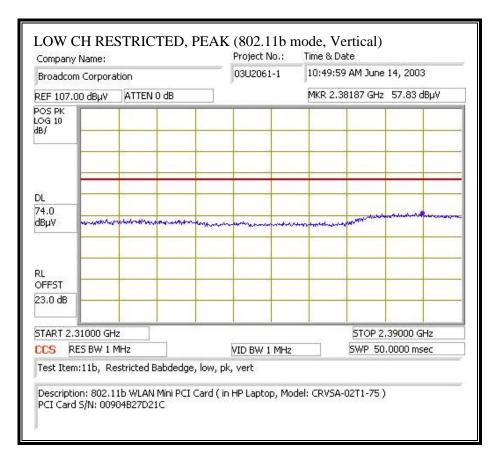
Broadco	m Corpora	ation		03U20)61-1	10:56:4	41 AM June 14, 2003			
REF 107.	00 dBµV	ATTEN	10 dB	1		MKR 2.	38347 GHz	56.67 d	lBμV	
POS PK LOG 10 dB/										
d,										
DL 74.0	_	-		-	-					
dBµV	phone and a second			all the should be a set	ummer	materia	monorman	un norden	Rubman	
RL OFFST					_					
23.0 dB										
START 2.	.31000 GH	iz			-	-	STOP 2.	39000 Gł	Hz	
CCS R	ES BW 1 M	MHz		VID BV	VID BW 1 MHz			SWP 50.0000 msec		
Test Iter	n:11b, Re	estricted	Babdedge, lo	/w, pk, horiz						

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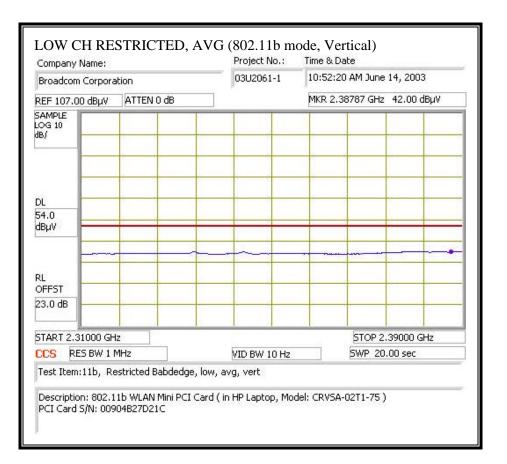


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RESTRICTED BANDEDGE (b MODE, LOW CHANNEL, VERTICAL)

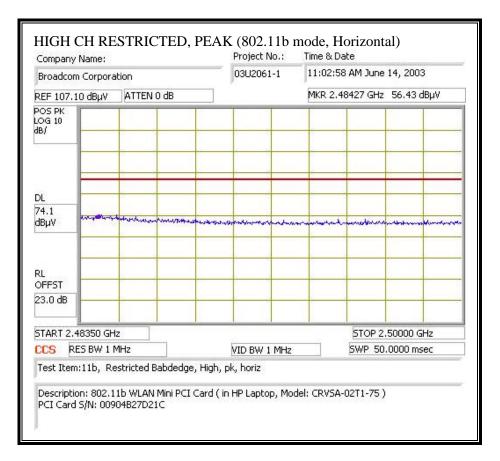


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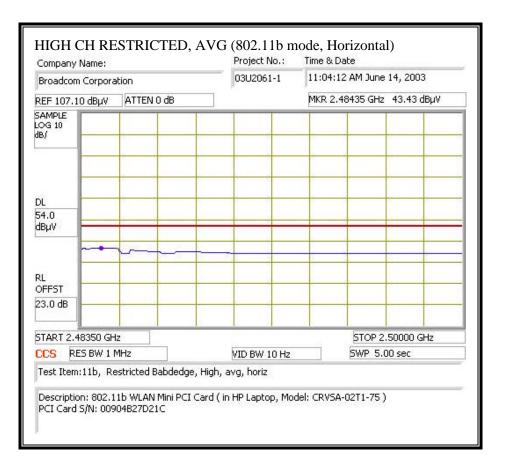


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RESTRICTED BANDEDGE (b MODE, HIGH CHANNEL, HORIZONTAL)

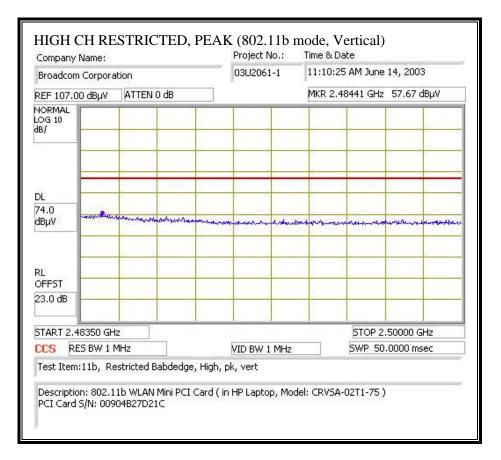


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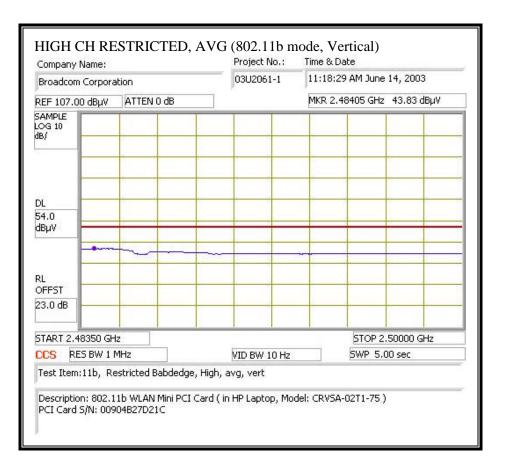


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RESTRICTED BANDEDGE (b MODE, HIGH CHANNEL, VERTICAL)



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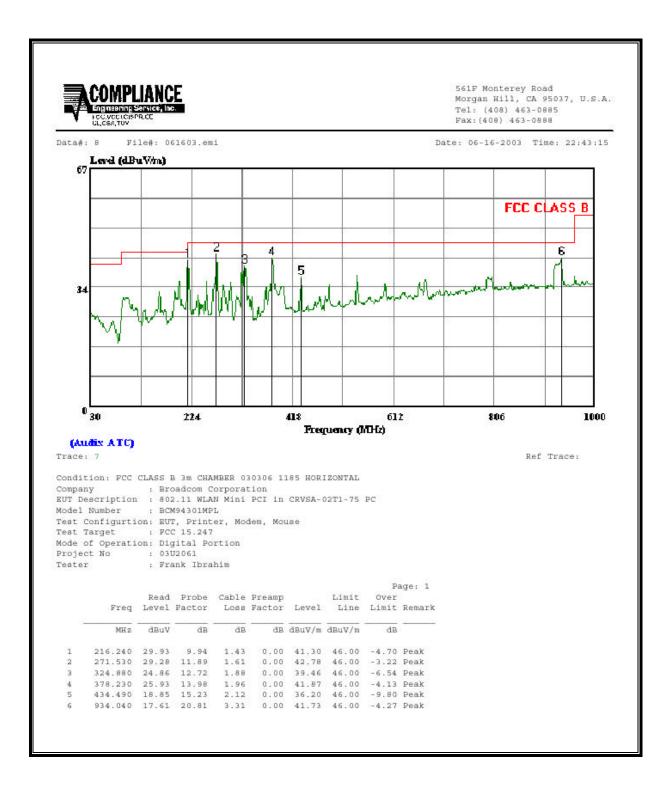
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HARMONICS AND SPURIOUS EMISSIONS

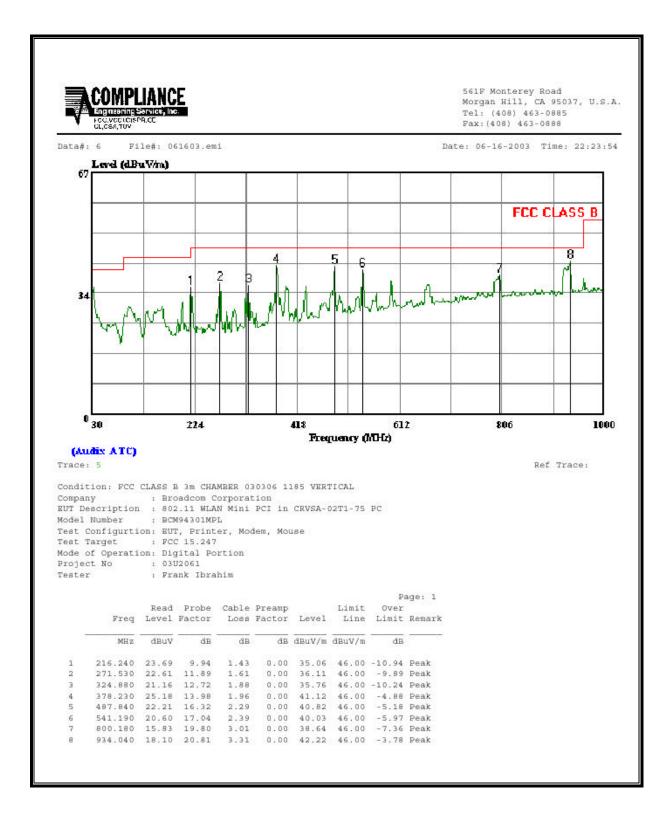
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Mode Oper: TX EXCO Horn 1-18GHz Fre-amplifer 1-26GHz Spectrum Analyzer Horn > 18GHz Too; StN: 2238 @ 3n Pre-amplifer 1-26GHz Spectrum Analyzer Horn > 18GHz I "I "requency Cables Cables Mage: Cables Cables Data for (4-6 ft) \$\mathcal{T}(12 ft) Deak Measurements: 1 MHz Resolution Brandwidth Average Measurements: 1 MHz Resolution Brandwidth Cables Data for (4-6 ft) \$\mathcal{T}(12 ft) Deak Measurements: 1 MHz Resolution Brandwidth Cables Data for (4-6 ft) \$\mathcal{T}(12 ft) Deak Measurements: 1 MHz Resolution Brandwidth Cables Data for (4-6 ft) \$\mathcal{T}(12 ft) Deak Measurements: 1 MHz Resolution Brandwidth Cables Data for (4-6 ft) \$\mathcal{T}(12 ft) Mage: Cables Teak Measurements: 1 MHz Resolution Brandwidth Other MPF Peak dbuv/m dbuv/	Mode Oper:T Fest Equipme EMCO Horn	'X ent:														
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ENCO Horn 1-18GHzToto: S/N: 2238 @ 3mPre-amplifer 1-26GHzSpectrum AnalyzerHorn > 18GHz $d(t)$: S/N: 2238 @ 3m $d(t)$ $d(t)$ $d(t)$ $d(t)$ $d(t)$ $d(t)$ $d(t)$: S/N: 2238 @ 3m $d(t)$ $d(t)$ $d(t)$ $d(t)$ $d(t)$ $d(t)$ $d(t)$ $d(t)$: S/N: 2238 @ 3m $d(t)$ $d(t)$ $d(t)$ $d(t)$ $d(t)$ $d(t)$ $d(t)$ $d(t)$: $d(t)$: $d(t)$: $d(t)$: $d(t)$: $d(t)$: $d(t)$: $d(t)$: $d(t)$: $d(t)$: $d(t)$: $d(t)$: $d(t)$: $d(t)$: $d(t)$ $d(t)$: $d(t)$: $d(t)$: $d(t)$: d	ENCO Horn 1-18CHz T60; S/N: 2238 @3m Pre-amplifer 1-26GHz T86 Miteq 924341 Spectrum Analyzer Agilent 8564E AnalyzerHorn > 18GHzToto: S/N: 2238 @3m Pre-amplifer 1-26GHz T86 Miteq 924341 Spectrum Analyzer Image: Set the system colspan="4">Pre-amplifer 1-26GHz Tglent 8564E Analyzer Horn > 18GHzImage: Set the system colspan="4">Pre-amplifer 1-26GHz Tglent 8564E Analyzer Horn > 18GHzImage: Set the system colspan="4">Pre-amplifer 1-26GHz Tglent 8564E Analyzer Horn > 18GHzImage: Set the system colspan="4">Pre-amplifer 1-26GHz Tglent 8564E Analyzer Horn > 18GHzImage: Set the system colspan="4">Pre-amplifer 1-26GHz Tglent 8264E Analyzer Pre-amplifer 1-26GHz Tglent 8564E Analyzer Image: Set the system colspan="4">Pre-amplifer 1-26GHz Tglent 8264E Analyzer Notes Tglent 8264E Analyzer Image: Set the system colspan="4">Pre-amplifer 1-26GHz Tglent 8264E Analyzer Notes Tglent 8264E Analyzer Image: Set the system colspan="4">Image: Set the system colspan="4">Notes Tglent 8264E Analyzer Image: Set the system colspan="4">Notes Tglent 8264E Analyzer Image: Set the system colspan="4">Image: Set the system colspan="4">Notes Tglent 8264E Analyzer Image: Set the system colspan="4">Image: Set the system colspan="4">Image: Set the system colspan="4">Image: Set the system colspan="4">Image: Set the system colspan="4" <th colspan<="" th=""><th>EMCO Horn</th><th>_</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></th>	<th>EMCO Horn</th> <th>_</th> <th></th>	EMCO Horn	_													
The million is bound in the sound in the	Interpretation in statute Interpretation in statute <th< th=""><th></th><th>1 1-18GHz</th><th></th><th></th><th></th><th></th><th>Spectrum A</th><th>nalvzer</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></th<>		1 1-18GHz					Spectrum A	nalvzer								
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Image: Construction of Constructing Construction of Construction of Constructio	Image: Constraint of the constraint		.58 @5111	100 Miles	924341	-											
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4924 9.8 58.0 44.0 33.2 4.0 -45.7 0.0 1.0 50.5 36.5 74.0 54.0 -23.5 -17.5 V 4.924 9.8 55.0 42.8 33.2 4.0 -45.7 0.0 1.0 50.5 35.3 74.0 54.0 -23.5 -17.5 V 4.924 9.8 55.0 42.8 33.2 4.0 -45.7 0.0 1.0 47.5 35.3 74.0 54.0 -26.5 -18.7 H 7.386 9.8 51.5 39.4 36.3 5.2 -46.5 0.0 1.0 47.9 35.7 74.0 54.0 -26.1 -18.3 V 7.386 9.8 51.5 39.4 36.3 5.2 -46.5 0.0 1.0 47.4 35.3 74.0 54.0 -26.6 -18.7 H No other emissions were detected above the system noise floor.	4924 9.8 58.0 44.0 33.2 4.0 -45.7 0.0 1.0 50.5 36.5 74.0 54.0 -23.5 -17.5 V 4.924 9.8 55.0 42.8 33.2 4.0 -45.7 0.0 1.0 50.5 36.5 74.0 54.0 -26.5 -18.7 H 7.386 9.8 52.0 39.8 36.3 5.2 -46.5 0.0 1.0 47.9 35.7 74.0 54.0 -26.1 -18.3 V 7.386 9.8 51.5 39.4 36.3 5.2 -46.5 0.0 1.0 47.9 35.7 74.0 54.0 -26.6 -18.7 H No other emissions were detected above the system noise floor. - 6.0 1.0 47.4 35.3 74.0 54.0 -26.6 -18.7 H No other emissions were detected above the system noise floor. - 6.0 1.0 47.4 35.3 74.0 54.0 -26.6				36.2	5.2	-46.6	0.0	1.0	47.8	35.6	74.0	54.0	-26.2	-18.4	Н	
4.924 9.8 55.0 42.8 33.2 4.0 -45.7 0.0 1.0 47.5 35.3 74.0 54.0 -26.5 -18.7 H 7.386 9.8 52.0 39.8 36.3 5.2 -46.5 0.0 1.0 47.9 35.7 74.0 54.0 -26.1 -18.3 V 7.386 9.8 51.5 39.4 36.3 5.2 -46.5 0.0 1.0 47.4 35.3 74.0 54.0 -26.6 -18.7 H No other emissions were 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 Field Strength Pk Lim Peak Limit Pk Kar Marg	4.924 9.8 55.0 42.8 33.2 4.0 -45.7 0.0 1.0 47.5 35.3 74.0 54.0 -26.5 -18.7 H 7.386 9.8 52.0 39.8 36.3 5.2 -46.5 0.0 1.0 47.9 35.7 74.0 54.0 -26.5 -18.7 H 7.386 9.8 51.5 39.4 36.3 5.2 -46.5 0.0 1.0 47.9 35.7 74.0 54.0 -26.6 -18.7 H No other emissions were detected above the system noise floor. f Measurement Frequency Amp Preamp Gain Avg Lim Average Field Strength Limit Pk Lim Peak Field Strength Limit Dist Distance to Antenna D Corr Distance Correct to 3 meters Pk Lim Peak Field Strength Limit Aead Analyzer Reading Avg Average Field Strength @ 3 m Avg Mar Margin vs. Average Limit AF Antenna Factor Peak Calculated Peak Field Strength Pk Mar Marg				33.2	40	-45 7	0.0	1.0	50.5	36.5	74.0	54.0	-23.5	-17.5	v	
7.386 9.8 52.0 39.8 36.3 5.2 -46.5 0.0 1.0 47.9 35.7 74.0 54.0 -26.1 -18.3 V 7.386 9.8 51.5 39.4 36.3 5.2 -46.5 0.0 1.0 47.9 35.7 74.0 54.0 -26.1 -18.3 V No other emissions were 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 Kar Margin vs. Peak Limit	7.386 9.8 52.0 39.8 36.3 5.2 46.5 0.0 1.0 47.9 35.7 74.0 54.0 -26.1 -18.3 V 7.386 9.8 51.5 39.4 36.3 5.2 -46.5 0.0 1.0 47.9 35.7 74.0 54.0 -26.1 -18.3 V 7.386 9.8 51.5 39.4 36.3 5.2 -46.5 0.0 1.0 47.4 35.3 74.0 54.0 -26.6 -18.7 H No other emissions were 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	4.924 9.8	.8 55.0											-26.5			
No other emissions were 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	No other emissions were 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	7.386 9.8	.8 52.0	39.8	36.3	5.2	-46.5		1.0	47.9	35.7	74.0	54.0	-26.1	-18.3	V	
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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	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	No other emissi	ions were de	tected above the	ystem nois	se floor.											
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			-				•	•									
CL Cable Loss HPF High Pass Filter	CL Cable Loss HPF High Pass Filter								Margin vs	. Peak Limit							
		CL	Cable I	LOSS			HPF	High Pas	s Filter								

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DIGITAL DEVICE EMISSIONS



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7.7. POWERLINE CONDUCTED EMISSIONS

<u>LIMIT</u>

\$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:

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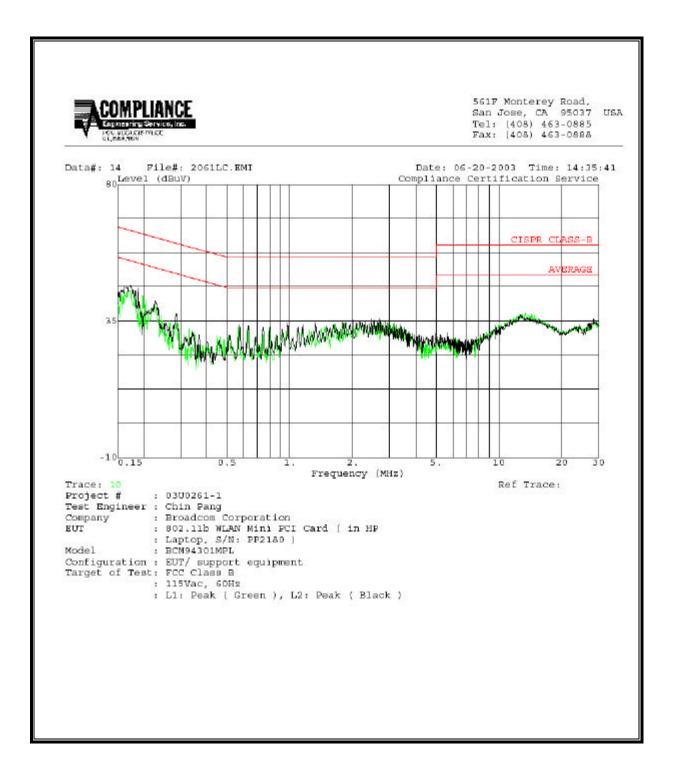
7.7.1. LINE CONDUCTION EMISSIONS WITH PP2180 HOST COMPUTER:

<u>6 WORST EMISSIONS</u>

Freq.		Reading		Closs	Limit	EN_B	Mar	Remark	
(MHz)	PK (dBuV)	QP (dBuV)	AV (dBuV)	(dB)	QP	AV	QP (dB)	AV (dB)	L1 / L2
0.16	50.76			0.00	65.83	55.83	-15.07	-5.07	L1
0.19	49.60			0.00	64.77	54.77	-15.17	-5.17	L1
4.45	34.66			0.00	56.00	46.00	-21.34	-11.34	L1
0.15	51.33			0.00	65.91	55.91	-14.58	-4.58	L2
0.19	49.46			0.00	64.74	54.74	-15.28	-5.28	L2
4.72	35.04			0.00	56.00	46.00	-20.96	-10.96	L2
6 Worst I	Data								

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LINE RESULTS



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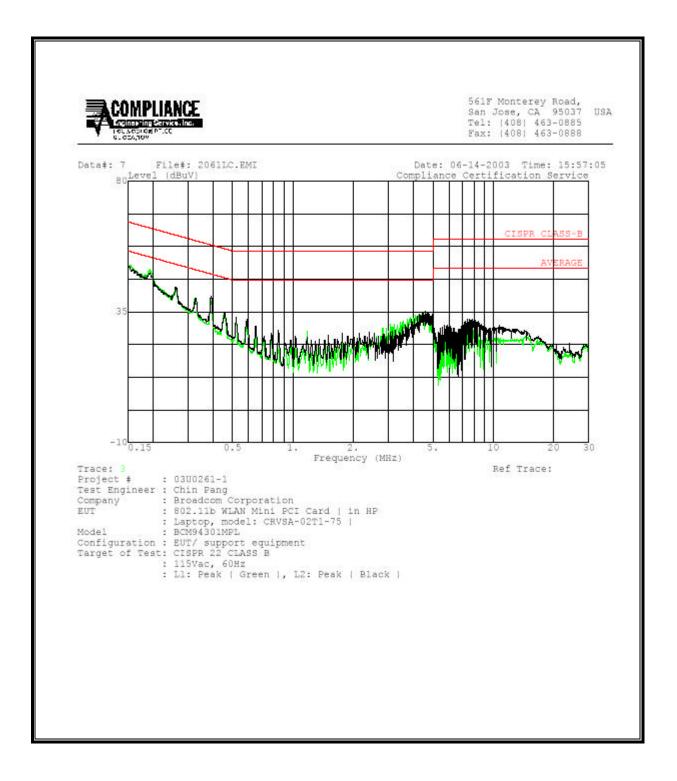
7.7.2. LINE CONDUCTION EMISSIONS WITH CRVSA-02T-75 HOST COMPUTER:

6 WORST EMISSIONS

Freq.			Closs	Limit	EN_B	Mar	Remark		
(MHz)	PK (dBuV)	QP (dBuV)	AV (dBuV)	(dB)	QP	AV	QP (dB)	AV (dB)	L1 / L2
0.16	50.76			0.00	65.83	55.83	-15.07	-5.07	L1
0.19	49.60			0.00	64.77	54.77	-15.17	-5.17	L1
4.45	34.66			0.00	56.00	46.00	-21.34	-11.34	L1
0.15	51.33			0.00	65.91	55.91	-14.58	-4.58	L2
0.19	49.46			0.00	64.74	54.74	-15.28	-5.28	L2
4.72	35.04			0.00	56.00	46.00	-20.96	-10.96	L2
6 Worst]									

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LINE RESULTS



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8. SETUP PHOTOS

ANTENNA PORT CONDUCTED RF MEASUREMENT SETUP



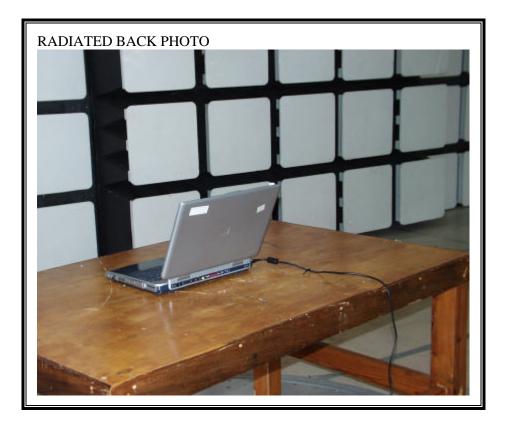
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RADIATED RF MEASUREMENT SETUP

HP CRVSA-02T-75



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HP PP2180



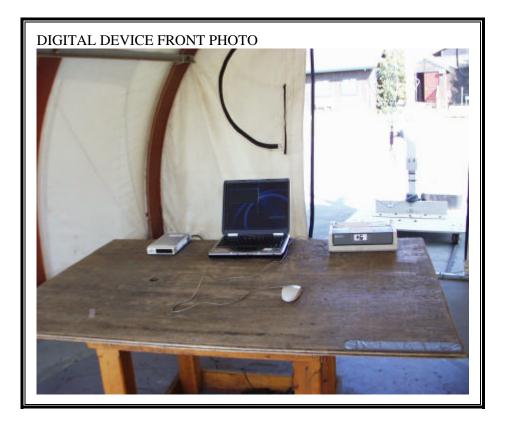
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DIGITAL DEVICE RADIATED EMISSIONS SETUP

HP CRVSA-02T-75



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HP PP2180



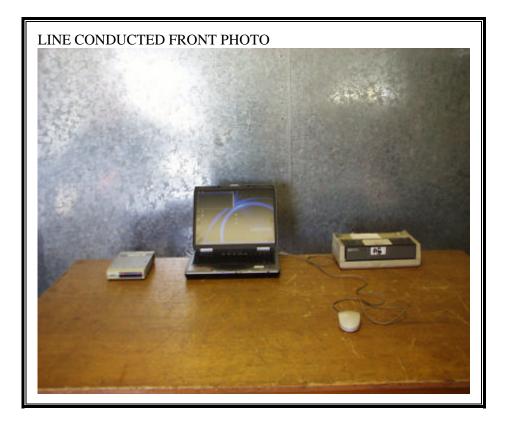
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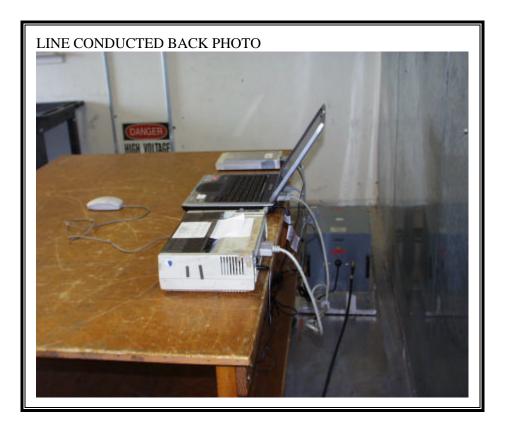
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POWERLINE CONDUCTED EMISSIONS MEASUREMENT SETUP

HP CRVSA-02T-75



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POWERLINE CONDUCTED EMISSIONS MEASUREMENT SETUP

HP PP2180



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END OF REPORT

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