



**FCC CFR47 PART 15 SUBPART E  
INDUSTRY CANADA RSS-210 ISSUE 7  
CLASS II PERMISSIVE CHANGE  
CERTIFICATION TEST REPORT**

**FOR  
WIRELESS ACCESS POINT  
MODEL NUMBER: AP4000-MR**

**FCC ID: HZB-L49U24U50  
IC: 1856A-49240**

**REPORT NUMBER: 07U11459-1  
ISSUE DATE: JANUARY 17, 2008**

*Prepared for*

**PROXIM WIRELESS  
2115 O NEL DRIVE  
SANTA CLARA, CA 95131, U.S.A.**

*Prepared by*

**COMPLIANCE CERTIFICATION SERVICES  
47173 BENICIA STREET  
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**NVLAP LAB CODE 200065-0**

Revision History

<u>Rev.</u>	<u>Issue Date</u>	<u>Revisions</u>	<u>Revised By</u>
--	1/17/08	Initial Issue	T. Chan

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# 1. ATTESTATION OF TEST RESULTS

**COMPANY NAME:** PROXIM WIRELESS  
2115 O NEL DRIVE  
SANTA CLARA, CA 94538, U.S.A.

**EUT DESCRIPTION:** WIRELESS ACCESS POINT

**MODEL:** AP4000-MR

**SERIAL NUMBER:** TN6A500157

**DATE TESTED:** NOVEMBER 10-17 AND DECEMBER 3-10, 2007 AND  
JANUARY 8-10, 2008

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart E	No Non-Compliance Noted
RSS-210 Issue 7 Annex 8 and RSS-GEN Issue 2	No Non-Compliance Noted

Compliance Certification Services, Inc. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

**Note:** The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by Compliance Certification Services and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by Compliance Certification Services will constitute fraud and shall nullify the document. No part of this report may be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any government agency.

Approved & Released For CCS By:

Tested By:



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THU CHAN  
EMC SUPERVISOR  
COMPLIANCE CERTIFICATION SERVICES

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CHIN PANG  
EMC ENGINEER  
COMPLIANCE CERTIFICATION SERVICES

## 2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4-2003, FCC CFR 47 Part 2, FCC CFR 47 Part 15, RSS-GEN Issue 2, and RSS-210 Issue 7.

## 3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 47173 Benicia Street, Fremont, California, USA.

CCS is accredited by NVLAP, Laboratory Code 200065-0. The full scope of accreditation can be viewed at <http://www.ccsemc.com>.

## 4. CALIBRATION AND UNCERTAINTY

### 4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

### 4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	UNCERTAINTY
Radiated Emission, 30 to 200 MHz	+/- 3.3 dB
Radiated Emission, 200 to 1000 MHz	+4.5 / -2.9 dB
Radiated Emission, 1000 to 2000 MHz	+4.5 / -2.9 dB
Power Line Conducted Emission	+/- 2.9 dB

Uncertainty figures are valid to a confidence level of 95%.

## **5. EQUIPMENT UNDER TEST**

### **5.1. DESCRIPTION OF EUT**

The EUT is an 802.11 abg Access Point with four external antennas.

### **5.2. DESCRIPTION OF CLASS II PERMISSIVE CHANGE**

The Class II changes to the EUT are as follows:

1. A new digital daughterboard has been added onto the original single board product.
2. The radio board and the new digital board are now housed in a ruggedized case.
3. Minor layout changes were made to the digital portion of the original board to accommodate the daughter board form and fit.

There have been no changes to the layout or the circuit of the radio portion of the product.

### **5.3. DESCRIPTION OF AVAILABLE ANTENNAS**

Please refer to the original FCC ID: HZB-L49U24U50 grant on 05/23/2007.

### **5.4. SOFTWARE AND FIRMWARE**

The EUT driver and Utility software installed during testing was Solarwinds.Net TFTP Server and Art\_ap4000MR.sei

### **5.5. WORST-CASE CONFIGURATION AND MODE**

The four worst case of external antenna types with the access point. They are Omni, Sector, Panel and Parabolic antennas with a maximum gain of 13 dB, 17dbi, 28.2dBi and 33.4dBi.

The worst-case channel is determined as the channel with the highest output power. The highest measured output power was at low channel for 5.2GHz and 5.5GHz band. For 5.8GHz band EUT was investigated on the worst case with highest power and highest antenna gain.

The worst-case data rate for this channel is determined to be 6 Mb/s.

## 5.6. DESCRIPTION OF TEST SETUP

### SUPPORT EQUIPMENT

PERIPHERAL SUPPORT EQUIPMENT LIST				
Description	Manufacturer	Model	Serial Number	FCC ID
Notebook	Sony	PCG-881R	R2429159	DoC
AC Adapter	Sony	PCGA-AC16V	0202B0335718R	DoC
POE	PowerDsine	3001G	R0717608001109800	DoC

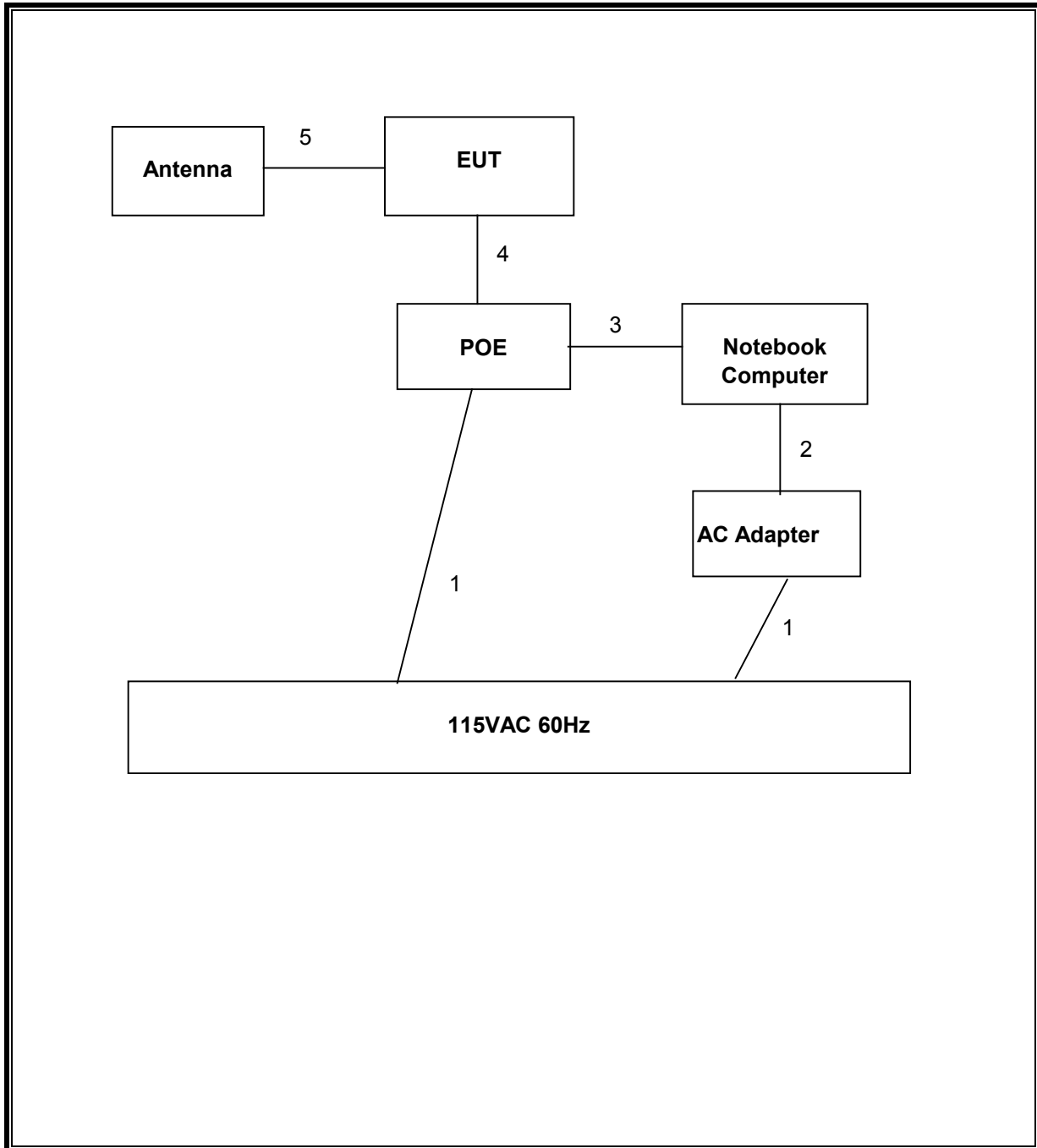
### I/O CABLES

I/O CABLE LIST						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length	Remarks
1	AC	1	US 115V	Un-shielded	2m	N/A
2	DC	1	DC	Un-shielded	2m	N/A
3	Data In	1	RJ45	Un-shielded	2m	N/A
4	Data & Power Out	1	RJ45	Un-shielded	0.2m	N/A
5	SMA	1	Antenna	Shielded	1m	N/A

### TEST SETUP

The EUT is installed in a host laptop computer during the tests. Test software exercised the radio card.

**SETUP DIAGRAM FOR TESTS**





## 6. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

TEST EQUIPMENT LIST					
Description	Manufacturer	Model	Asset	Cal Date	Cal Due
Peak Power Meter	Agilent / HP	E4416A	C00963	2/14/2007	12/7/2008
Peak / Average Power Sensor	Agilent	E9327A	C00964	2/14/2007	12/7/2008
Horn	EMCO	3115	C00945	4/15/2007	4/15/2008
Preamplifier, 26.5 GHz	Agilent / HP	8449B	C01063	10/3/2007	9/28/2008
Antenna, Horn, 26.5 GHz	ARA	MWH-1826/B	C00980	8/6/2007	9/28/2008
Preamplifier, 40 GHz	Miteq	NSP4000-SP2	C00990	9/30/2007	10/11/2008
Antenna, Horn, 40 GHz	ARA	MWH-2640/B	C00981	4/11/2007	4/11/2008
Antenna, Bilog, 2 GHz	Sunol Sciences	JB1	C01011	10/15/2007	9/28/2008
Preamp, 1000MHz	Sonoma	310N	NA	1/20/2007	1/20/2008
Spectrum Analyzer, 44 GHz	Agilent / HP	E4446A	C01012	5/2/2007	8/7/2008
EMI Test Receiver, 30 MHz	R & S	ESHS 20	N02396	10/16/2006	1/27/2008
LISN, 30 MHz	FCC	LISN-50/250-25-2	N02625	9/15/2007	10/25/2008

## 7. RADIATED TEST RESULTS

### 7.1. LIMITS AND PROCEDURE

#### LIMITS

FCC §15.205 and §15.209

IC RSS-210 Clause 2.6 (Transmitter)

IC RSS-GEN Clause 6 (Receiver)

Frequency Range (MHz)	Field Strength Limit ( $\mu\text{V}/\text{m}$ ) at 3 m	Field Strength Limit (dB $\mu\text{V}/\text{m}$ ) at 3 m
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

#### 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.

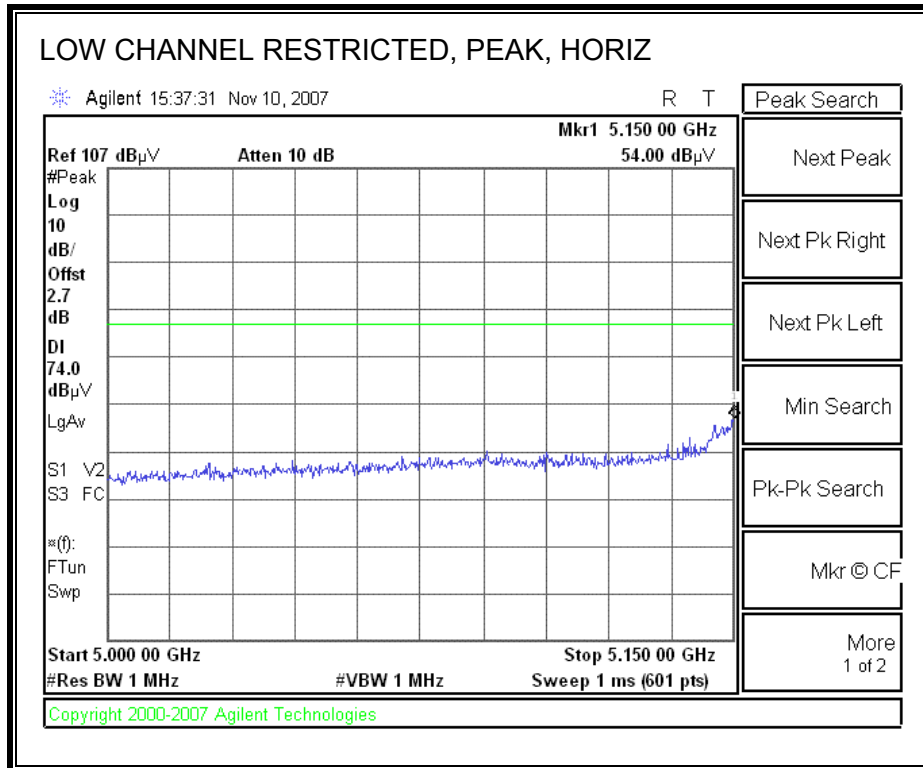
The spectrum from 30 MHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in the 2.4 GHz band.

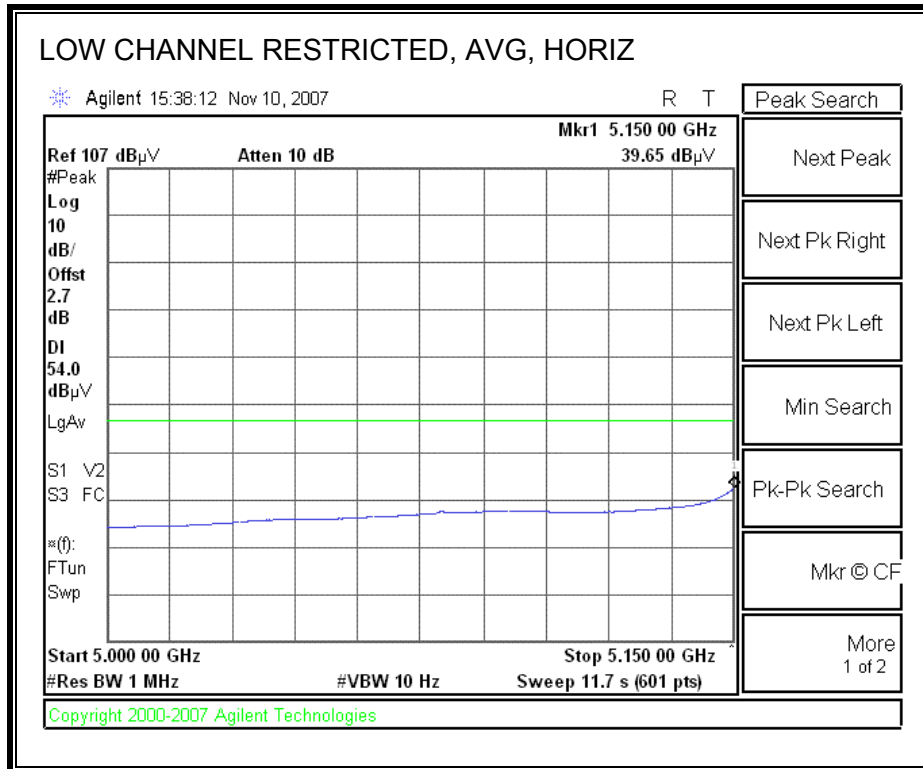
The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized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

### 7.1.1. TRANSMITTER ABOVE 1 GHz FOR 802.11a MODE IN THE 5.2 GHz BAND

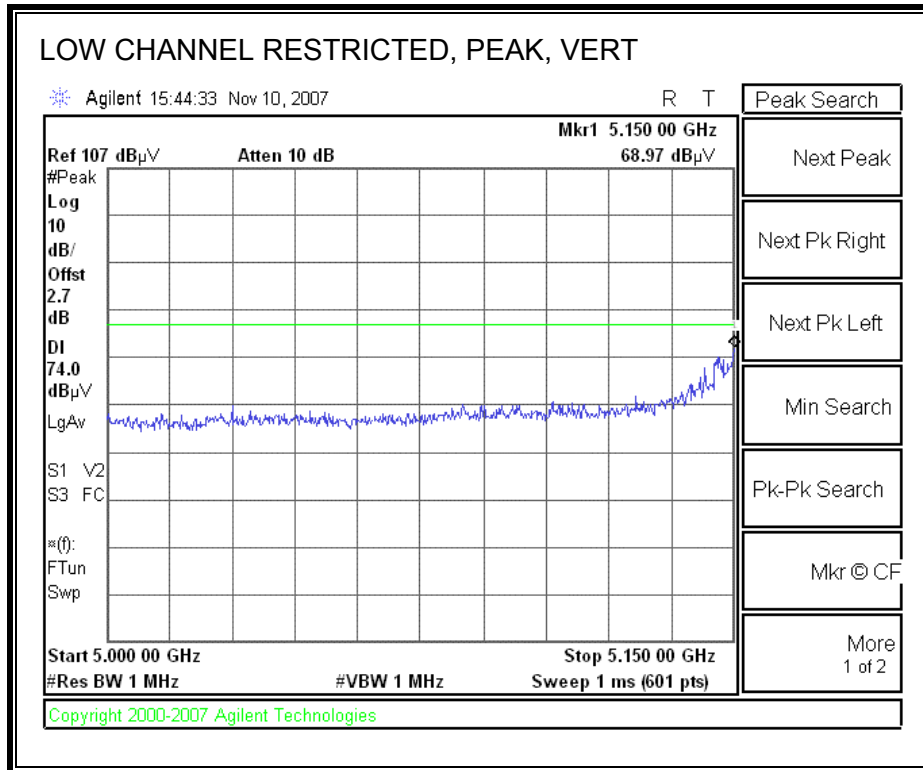
#### SECTOR ANTENNA

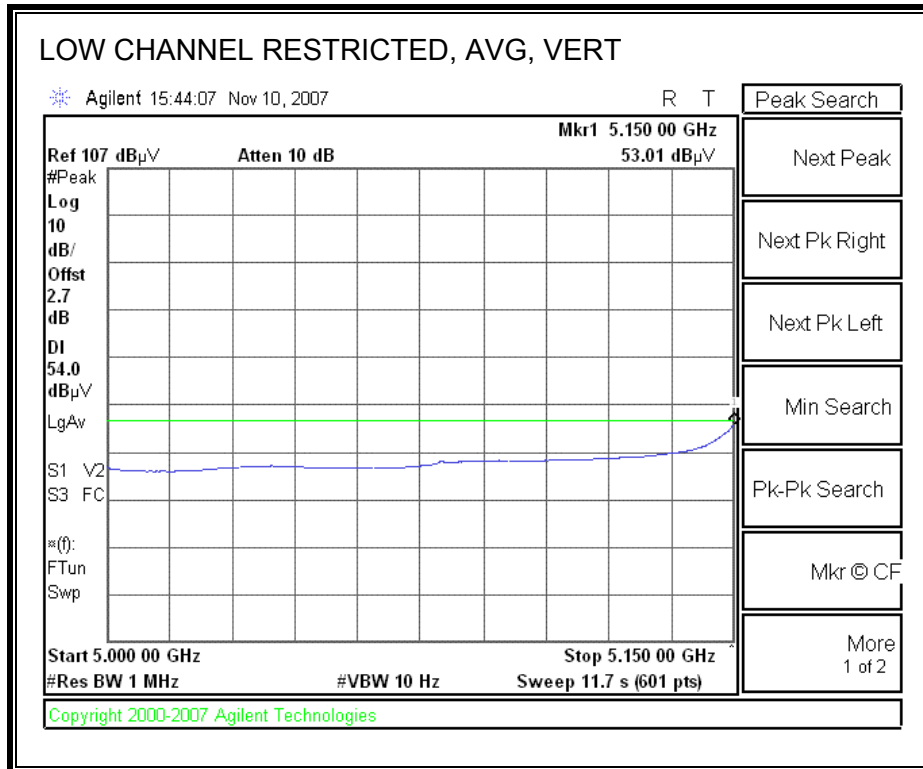
#### RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



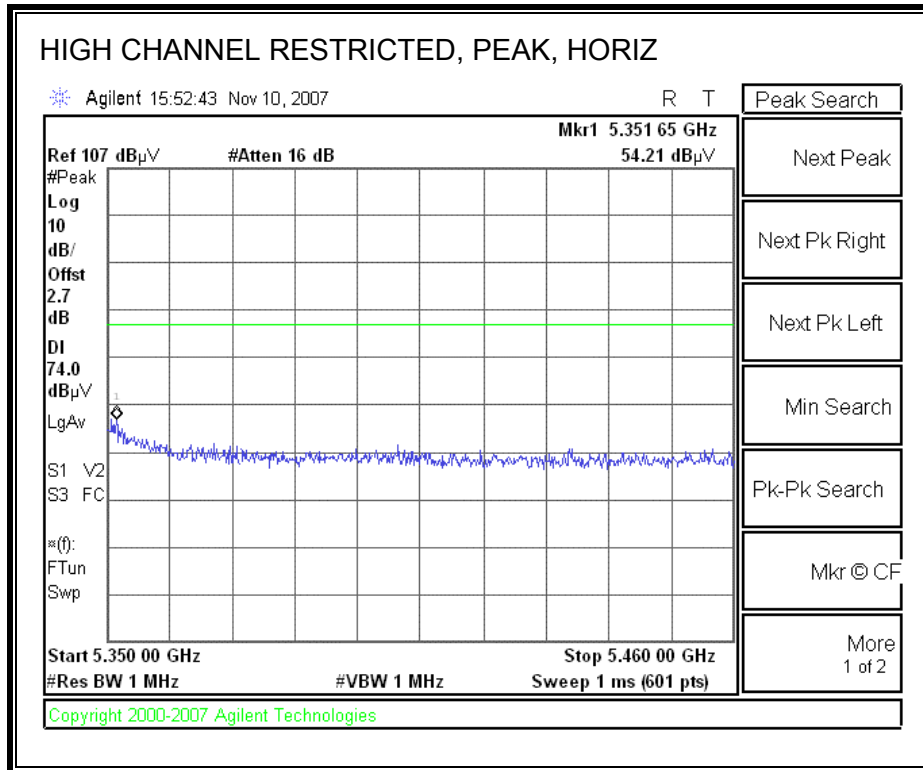


**RESTRICTED BANDEGE (LOW CHANNEL, VERTICAL)**

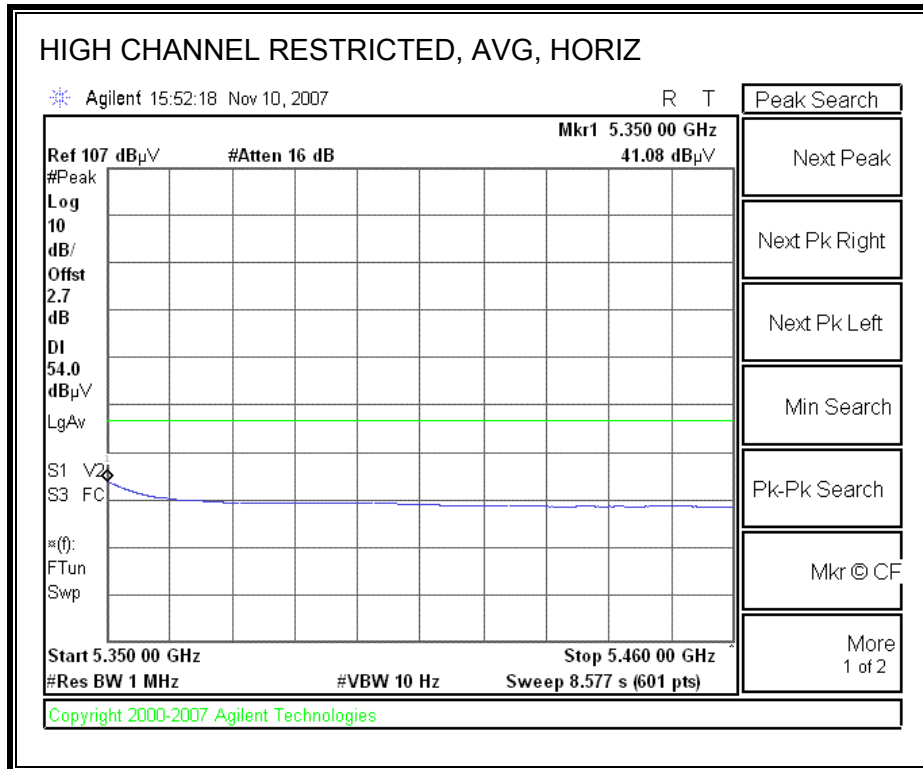




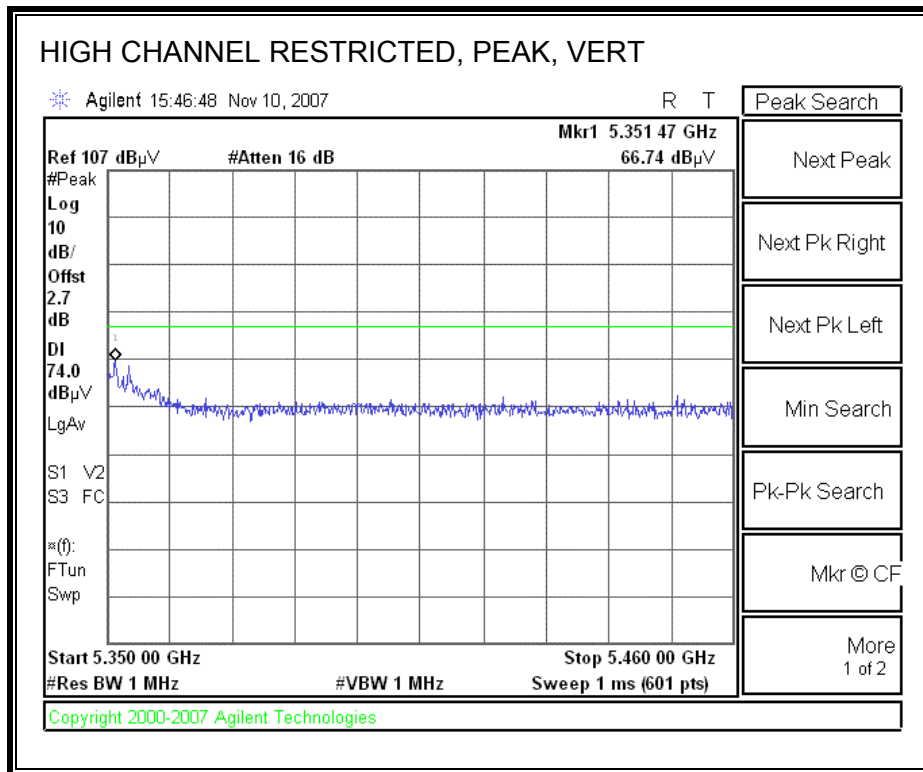
**RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)**

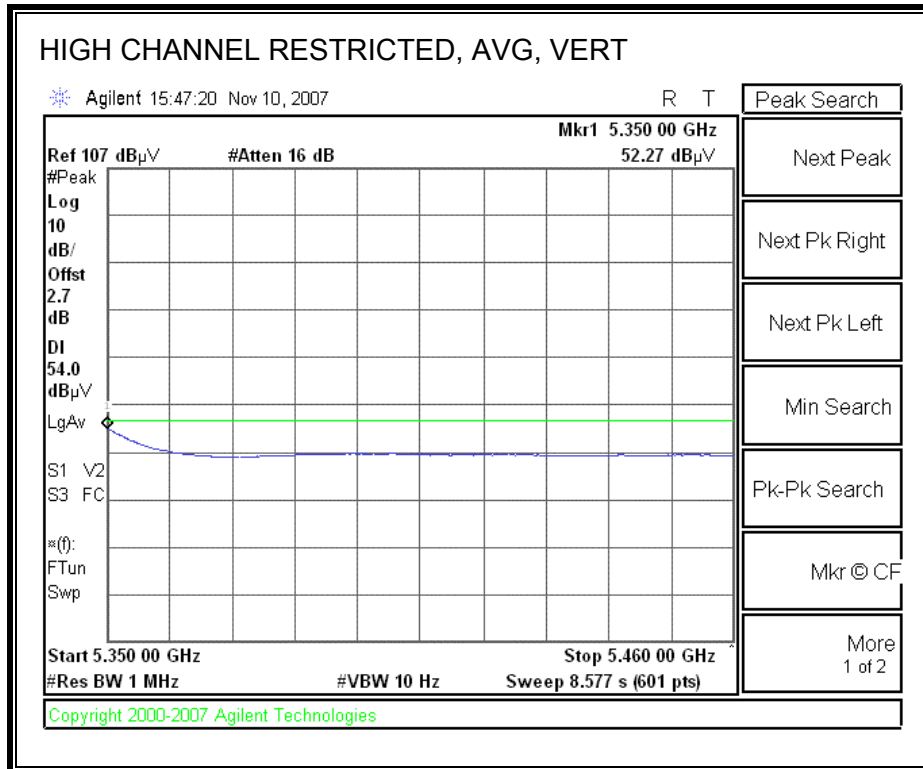






**RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)**





**HARMONICS AND SPURIOUS EMISSIONS**

**High Frequency Measurement**  
 Compliance Certification Services, Fremont 5m Chamber

Company: Proxim  
 Project #: 07U11459  
 Date: 11/12/2007  
 Test Engineer: Chin pang  
 Configuration: EUT/Sector antenna  
 Mode: 5.2GHz Band, Normal TX

**Test Equipment:**

Horn 1-18GHz	Pre-amplifier 1-26GHz	Pre-amplifier 26-40GHz	Horn > 18GHz	Limit
T60; S/N: 2238 @3m	T145 Agilent 3008A005	T88 Miteq 26-40GHz	T39; ARA 18-26GHz; S/N:1013	FCC 15.209

Hi Frequency Cables

2 foot cable	3 foot cable	12 foot cable	HPF	Reject Filter	Peak Measurements RBW=VBW=1MHz
		A-5m Chamber	HPF_7.6GHz		Average Measurements RBW=1MHz; VBW=10Hz

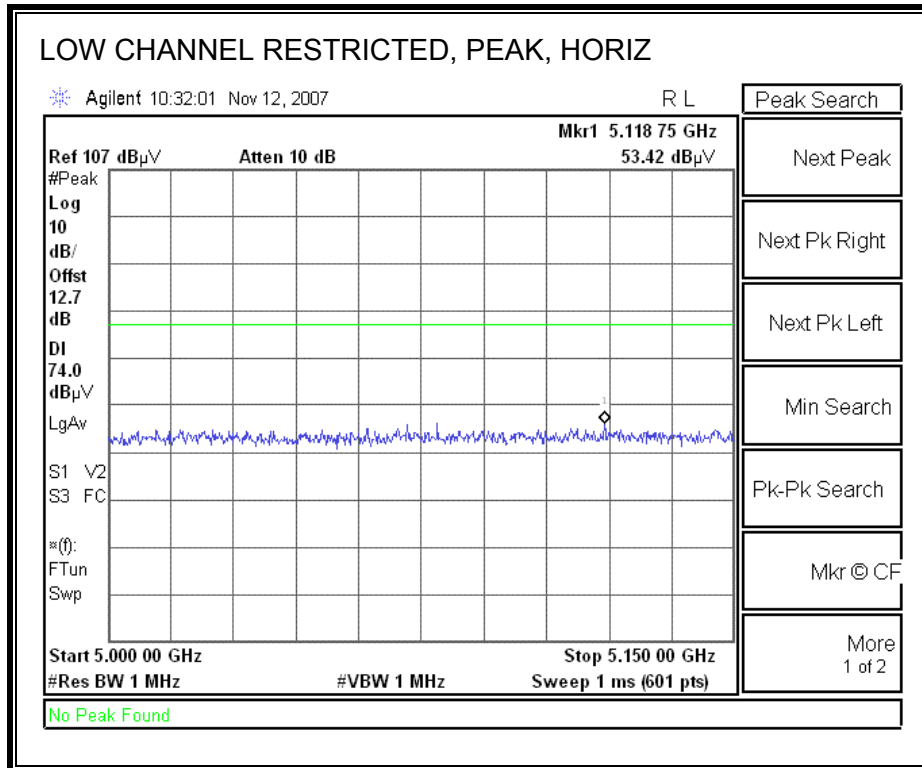
f GHz	Dist (m)	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Filtr dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)
<b>Low Ch</b>															
10.360	3.0	41.8	29.0	37.4	10.4	-34.6	0.0	0.8	55.8	43.0	74	54	-18.2	-11.0	V
15.540	3.0	42.5	29.5	38.0	12.7	-32.3	0.0	0.7	61.6	48.6	74	54	-12.4	-5.4	V
10.360	3.0	41.3	29.0	37.4	10.4	-34.6	0.0	0.8	55.3	43.0	74	54	-18.7	-11.0	H
15.540	3.0	41.5	29.3	38.0	12.7	-32.3	0.0	0.7	60.6	48.4	74	54	-13.4	-5.6	H
<b>Mid Ch</b>															
10.520	3.0	42.4	30.6	37.4	10.6	-34.4	0.0	0.8	56.7	44.9	74	54	-17.3	-9.1	V
15.780	3.0	43.0	31.0	37.9	12.8	-32.2	0.0	0.7	62.2	50.2	74	54	-11.8	-3.8	V
10.520	3.0	40.7	29.4	37.4	10.6	-34.4	0.0	0.8	55.0	43.7	74	54	-19.0	-10.3	H
15.780	3.0	41.4	29.3	37.9	12.8	-32.2	0.0	0.7	60.6	48.5	74	54	-13.4	-5.5	H
<b>High Ch</b>															
10.640	3.0	42.4	30.2	37.3	10.7	-34.2	0.0	0.8	57.0	44.8	74	54	-17.0	-9.2	V
15.960	3.0	41.2	29.0	37.8	12.8	-32.2	0.0	0.7	60.4	48.2	74	54	-13.6	-5.8	V
10.640	3.0	41.0	29.0	37.3	10.7	-34.2	0.0	0.8	55.6	43.6	74	54	-18.4	-10.4	H
15.960	3.0	40.5	28.6	37.8	12.8	-32.2	0.0	0.7	59.7	47.8	74	54	-14.3	-6.2	H

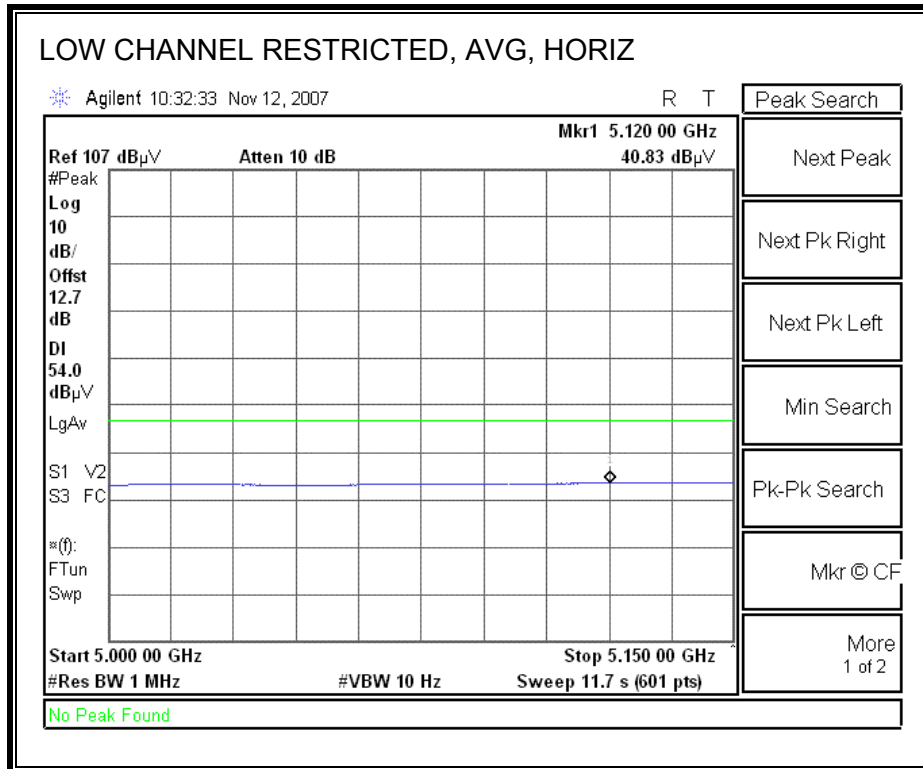
Rev. 4.12.7  
**Note: No other emissions were detected above the system noise floor.**

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
CL	Cable Loss	HPF	High Pass Filter		

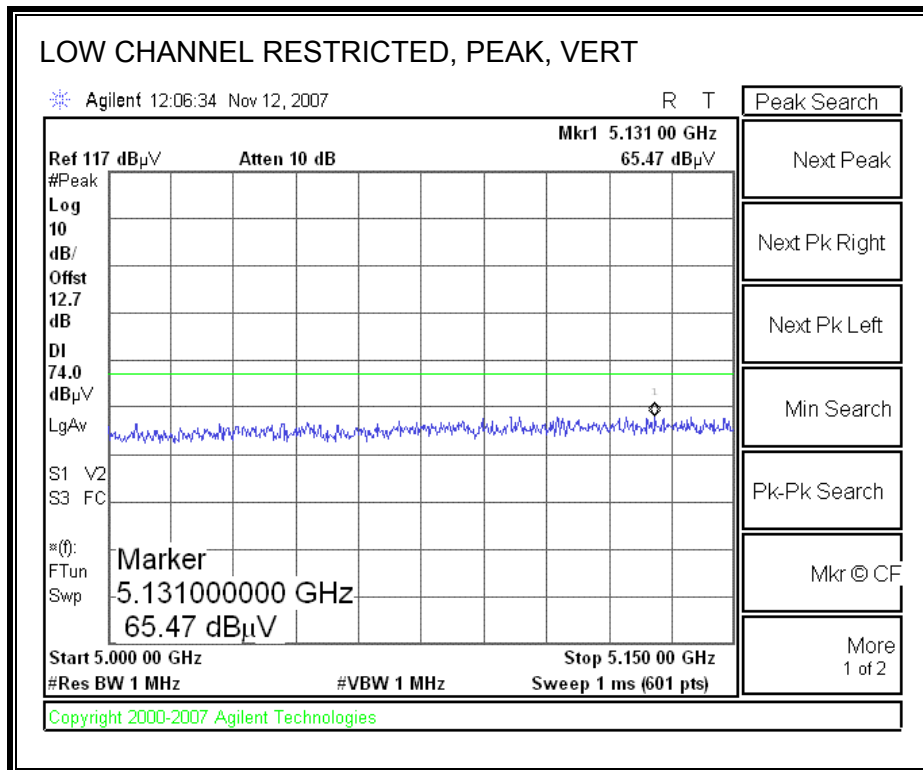
**PANEL ANTENNA**

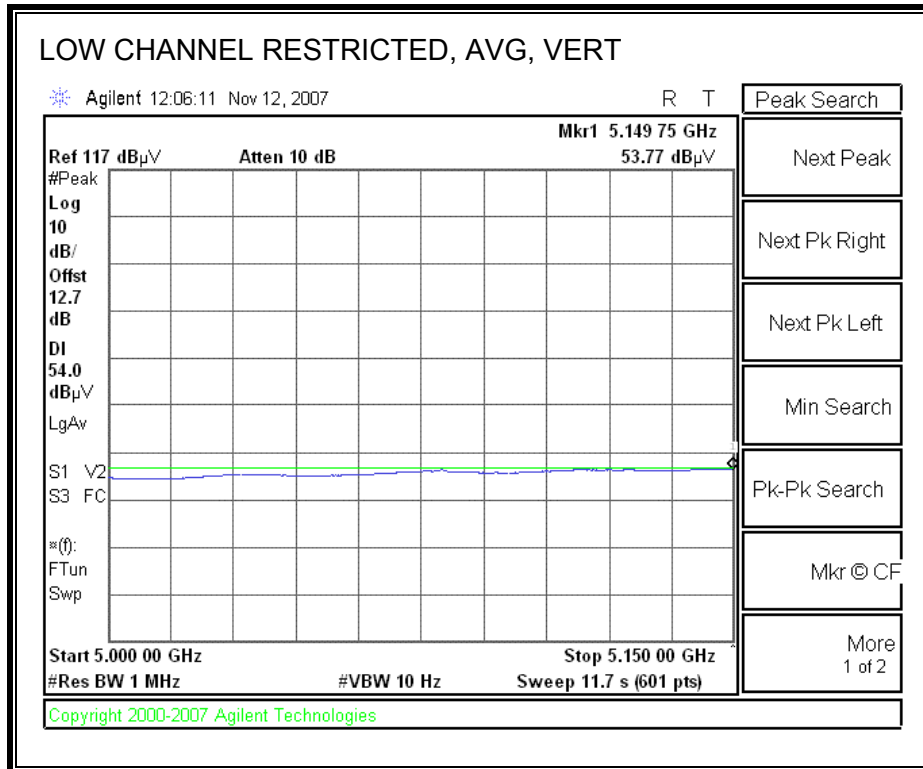
**RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)**





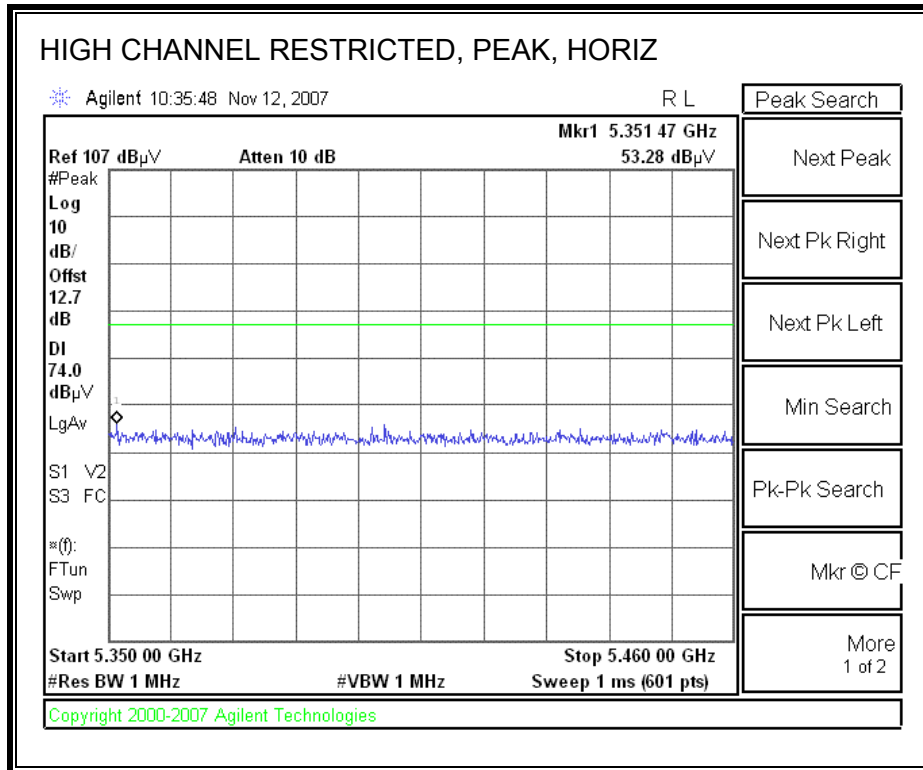
**RESTRICTED BANDEGE (LOW CHANNEL, VERTICAL)**

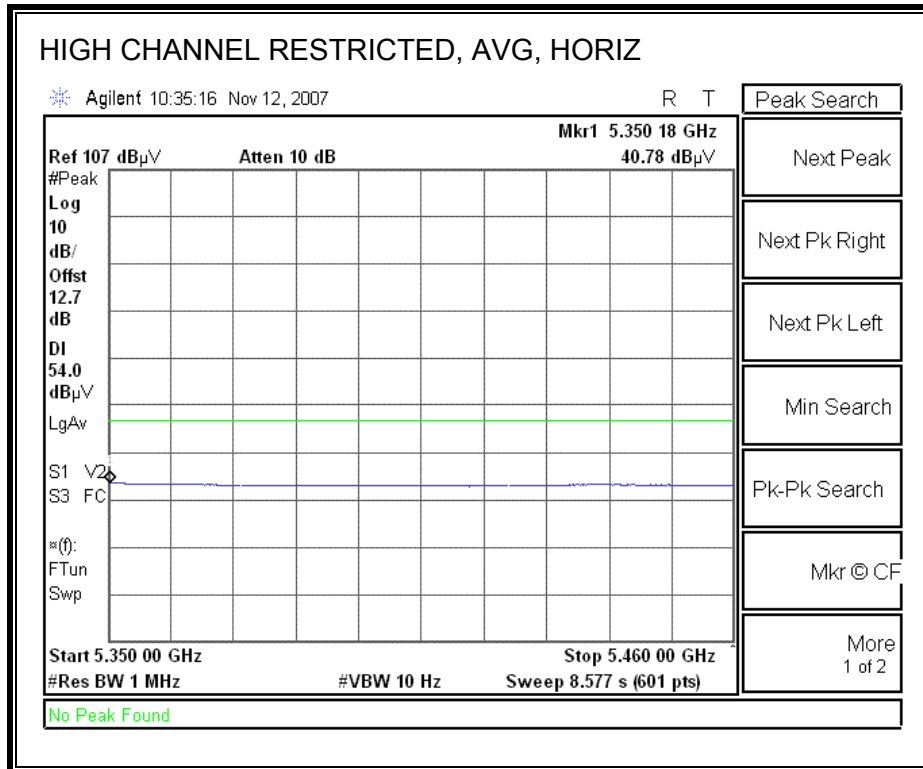




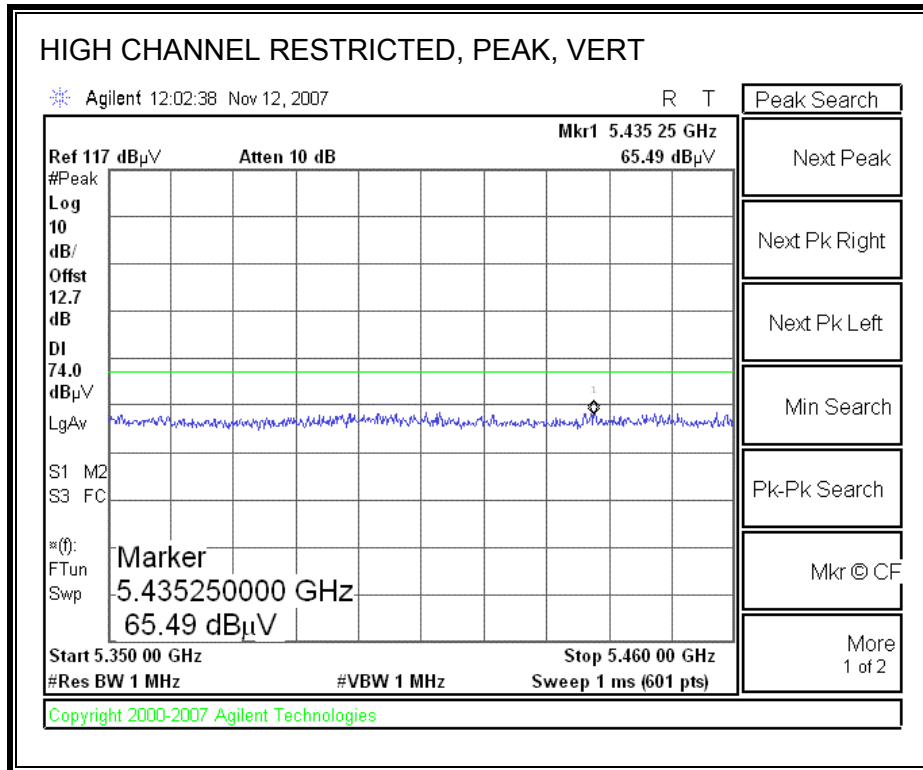


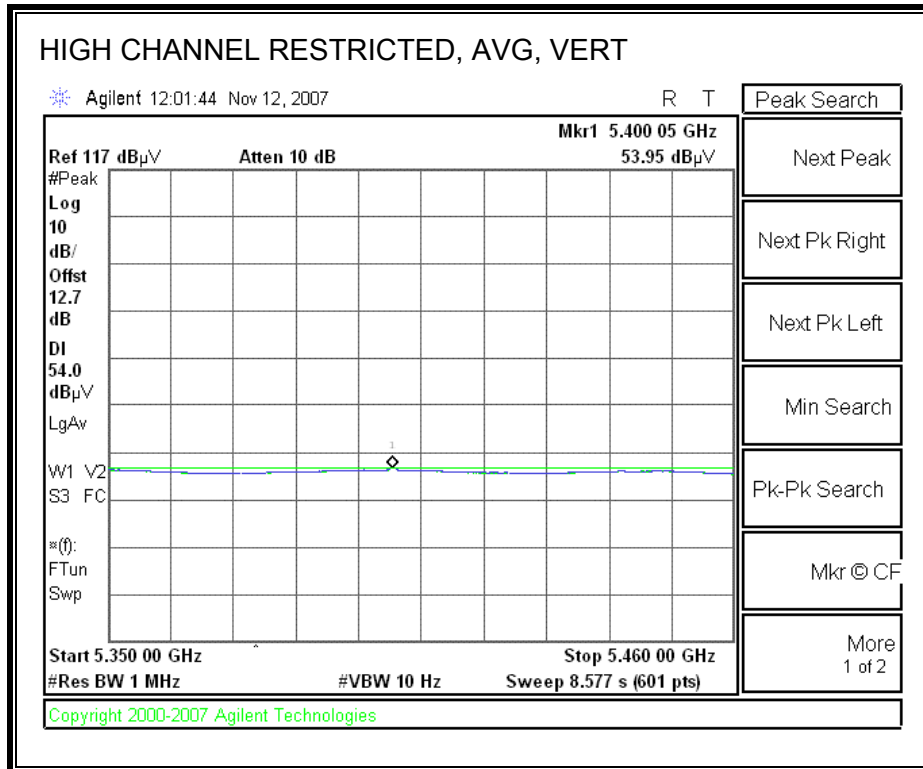
**RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)**





**RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)**





**HARMONICS AND SPURIOUS EMISSIONS**

**High Frequency Measurement**  
 Compliance Certification Services, Fremont 5m Chamber

Company: Proxim  
 Project #: 07U11459  
 Date: 11/12/2007  
 Test Engineer: Chin pang  
 Configuration: EUT/Panel antenna( with 2dB Pad )  
 Mode: 5.2GHz Band, Normal TX

**Test Equipment:**

Horn 1-18GHz	Pre-amplifier 1-26GHz	Pre-amplifier 26-40GHz	Horn > 18GHz	Limit
T60; S/N: 2238 @3m	T145 Agilent 3008A005	T88 Miteq 26-40GHz	T89; ARA 18-26GHz; S/N:1049	FCC 15.209

Hi Frequency Cables

2 foot cable	3 foot cable	12 foot cable	HPF	Reject Filter	Peak Measurements RBW=VBW=1MHz
		A-5m Chamber	HPF_7.6GHz		Average Measurements RBW=1MHz ; VBW=10Hz

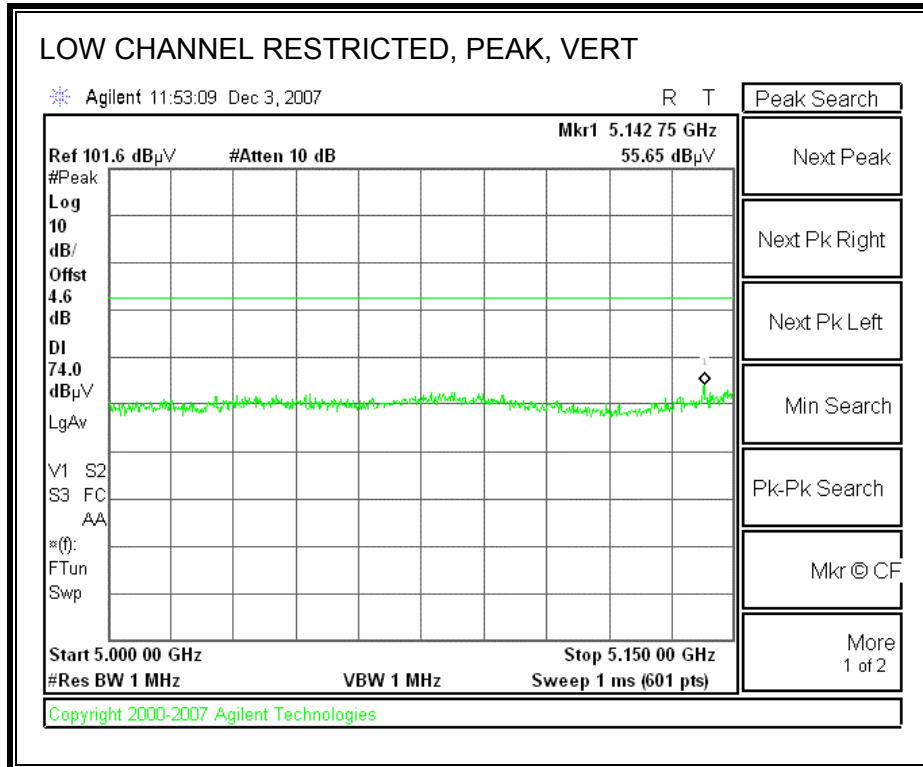
f GHz	Dist (m)	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Filtr dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)
<b>Low Ch</b>															
10.360	3.0	42.0	29.6	37.4	10.4	-34.6	0.0	0.8	56.0	43.6	74	54	-18.0	-10.4	V
15.540	3.0	43.0	30.0	38.0	12.7	-32.3	0.0	0.7	62.1	49.1	74	54	-11.9	-4.9	V
6.906	3.0	36.0	30.0	35.0	8.2	-34.7	0.0	0.8	45.3	39.3	74	54	-28.7	-14.7	H
10.360	3.0	43.6	30.4	37.4	10.4	-34.6	0.0	0.8	57.6	44.4	74	54	-16.4	-9.6	H
15.540	3.0	41.5	29.2	38.0	12.7	-32.3	0.0	0.7	60.6	48.3	74	54	-13.4	-5.7	H
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15.780	3.0	42.0	29.4	37.9	12.8	-32.2	0.0	0.7	61.2	48.6	74	54	-12.8	-5.4	H
<b>High Ch</b>															
10.640	3.0	43.6	30.7	37.3	10.7	-34.2	0.0	0.8	58.2	45.3	74	54	-15.8	-8.7	V
15.960	3.0	42.0	29.6	37.8	12.8	-32.2	0.0	0.7	61.1	48.8	74	54	-12.9	-5.2	V
10.640	3.0	40.7	29.0	37.3	10.7	-34.2	0.0	0.8	55.3	43.6	74	54	-18.7	-10.4	H
15.960	3.0	41.6	29.3	37.8	12.8	-32.2	0.0	0.7	60.8	48.5	74	54	-13.2	-5.5	H

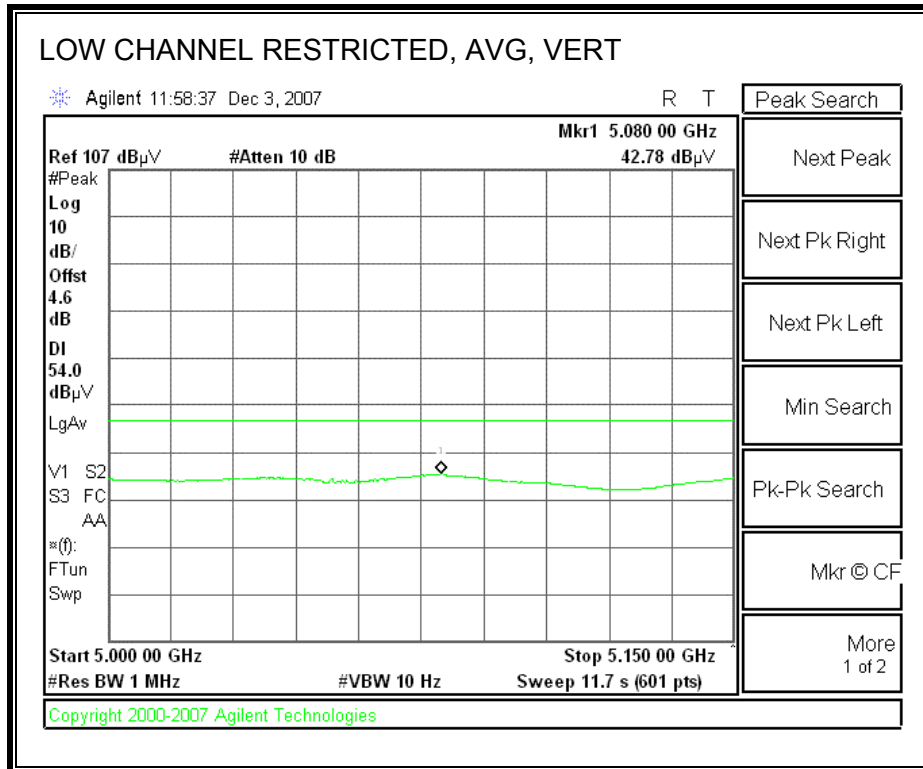
Rev. 4.12.7  
**Note: No other emissions were detected above the system noise floor.**

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
CL	Cable Loss	HPF	High Pass Filter		

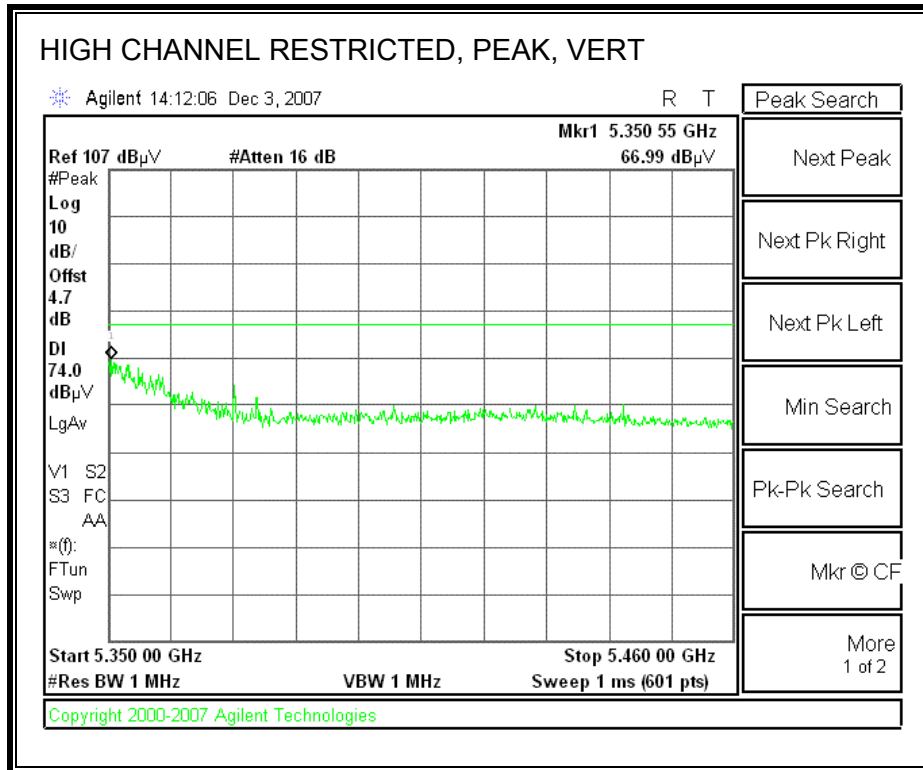
**OMNI ANTENNA**

**RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL) (WORST CASE)**

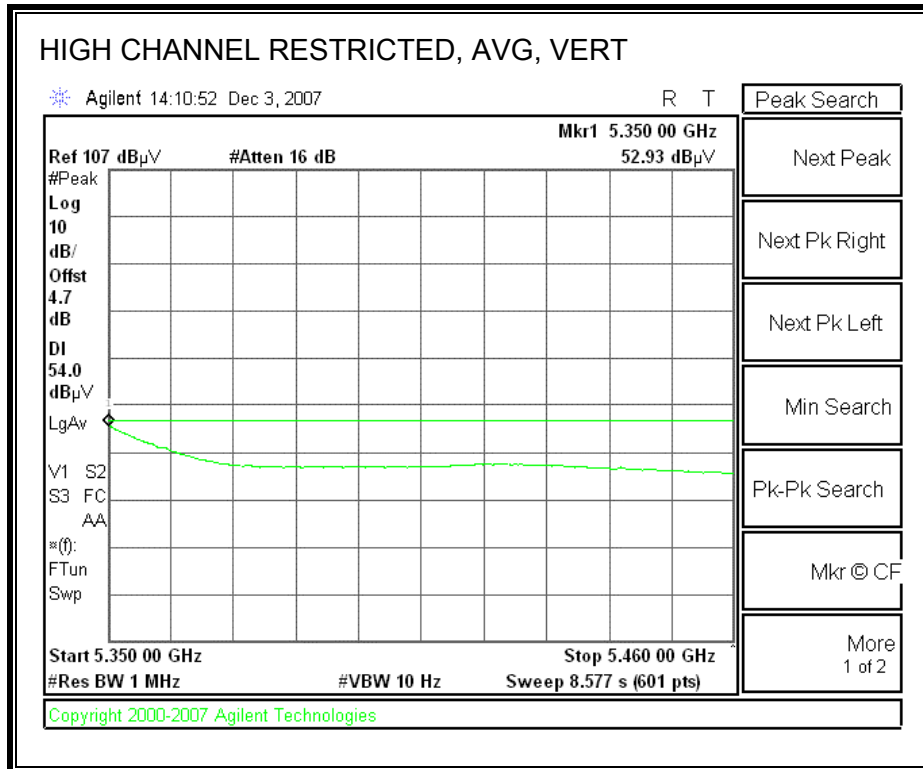




**RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)( WORST CASE)**







**HARMONICS AND SPURIOUS EMISSIONS**

**High Frequency Measurement**  
 Compliance Certification Services, Fremont 5m Chamber

Company: Proxim  
 Project #: 07U11459  
 Date: 12/03/2007  
 Test Engineer: Doug Anderson  
 Configuration: EUT / Omni antenna (13dBi Gain)  
 Mode: 5.2GHz Band, Normal TX

**Test Equipment:**

Horn 1-18GHz	Pre-amplifier 1-26GHz	Pre-amplifier 26-40GHz	Horn > 18GHz	Limit
T73; S/N: 6717 @3m	T144 Miteq 3008A00931	T88 Miteq 26-40GHz	T39; ARA 18-26GHz; S/N:1013	FCC 15.209

Hi Frequency Cables

2 foot cable	3 foot cable	12 foot cable	HPF	Reject Filter	Peak Measurements RBW=VBW=1MHz
		A-5m Chamber	HPF_7.6GHz		Average Measurements RBW=1MHz ; VBW=10Hz

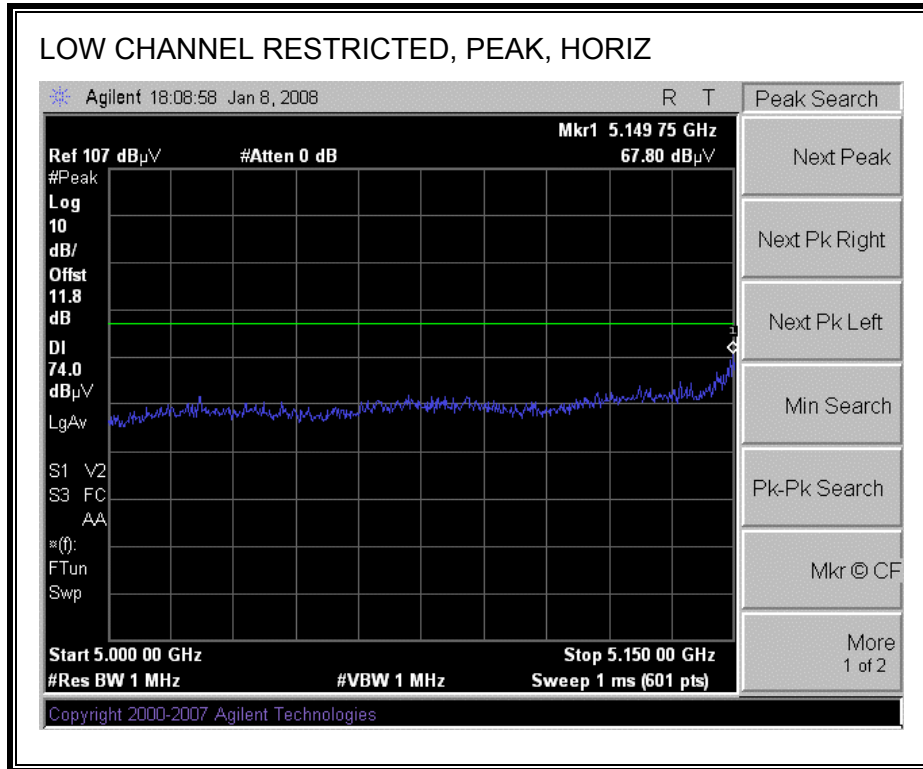
f GHz	Dist (m)	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Fldr dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)
<b>Low Ch 5180MHz</b>															
10.360	3.0	47.4	32.1	37.0	10.4	-36.8	0.0	0.8	58.8	43.5	74	54	-15.2	-10.5	Y
15.540	3.0	43.0	30.6	38.1	12.7	-34.8	0.0	0.7	59.6	47.2	74	54	-14.4	-6.8	Y
10.360	3.0	40.0	28.8	37.0	10.4	-36.8	0.0	0.8	51.4	40.2	74	54	-22.6	-13.8	H
15.540	3.0	41.4	29.3	38.1	12.7	-34.8	0.0	0.7	58.0	45.9	74	54	-16.0	-8.1	H
<b>Mid Ch 5260MHz</b>															
10.520	3.0	48.5	34.3	37.1	10.6	-36.7	0.0	0.8	60.3	46.1	74	54	-13.7	-7.9	Y
15.780	3.0	45.0	32.0	37.5	12.8	-34.6	0.0	0.7	61.4	48.4	74	54	-12.6	-5.6	Y
10.520	3.0	47.3	33.1	37.1	10.6	-36.7	0.0	0.8	59.1	44.9	74	54	-14.9	-9.1	H
15.780	3.0	44.2	31.5	37.5	12.8	-34.6	0.0	0.7	60.6	47.9	74	54	-13.4	-6.1	H
<b>High Ch 320MHz</b>															
10.640	3.0	46.6	33.5	37.1	10.7	-36.6	0.0	0.8	58.6	45.5	74	54	-15.4	-8.5	Y
15.960	3.0	42.5	31.6	37.1	12.8	-34.5	0.0	0.7	58.6	47.7	74	54	-15.4	-6.3	Y
10.640	3.0	43.0	32.0	37.1	10.7	-36.6	0.0	0.8	55.0	44.0	74	54	-19.0	-10.0	H
15.960	3.0	39.6	30.2	37.1	12.8	-34.5	0.0	0.7	55.7	46.3	74	54	-18.3	-7.7	H

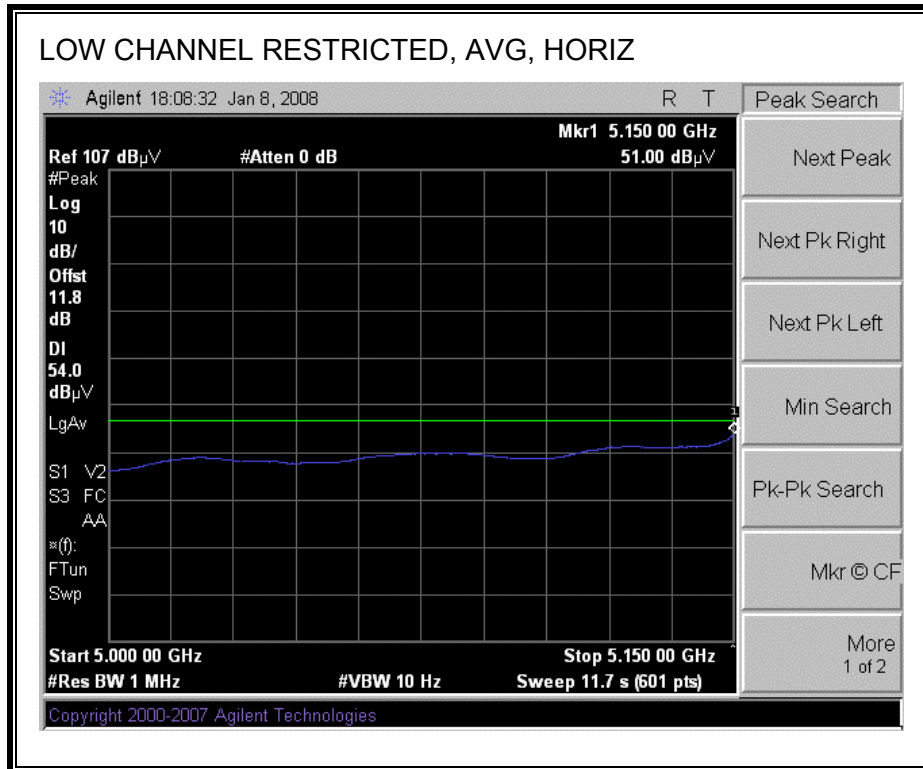
Rev. 4127  
**Note: No other emissions were detected above the system noise floor.**

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
CL	Cable Loss	HPF	High Pass Filter		

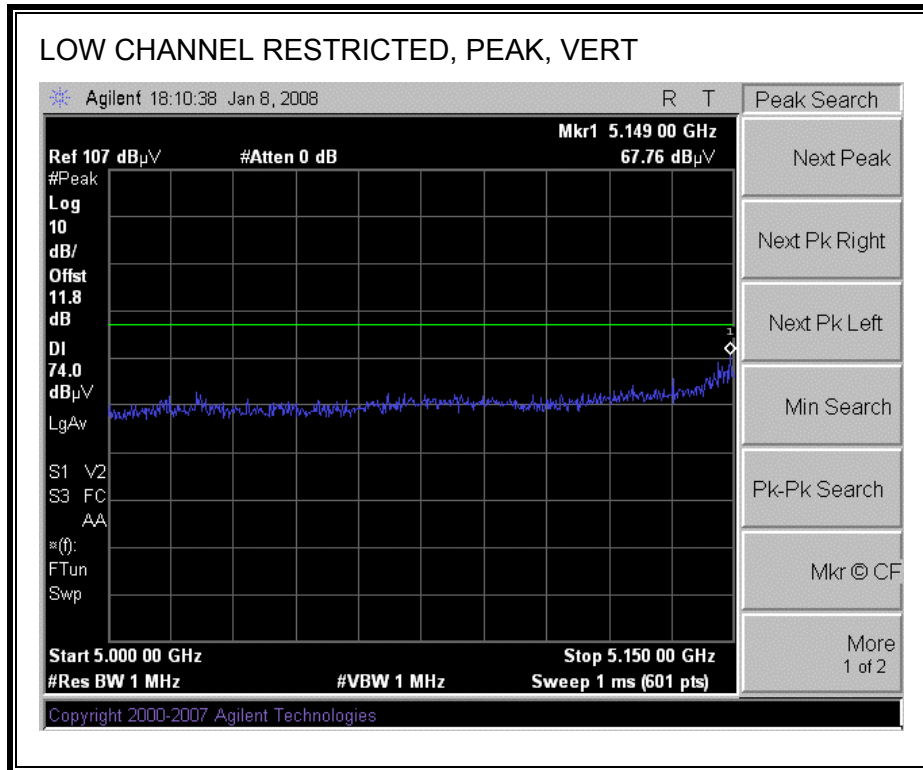
**PARABOLIC ANTENNA**

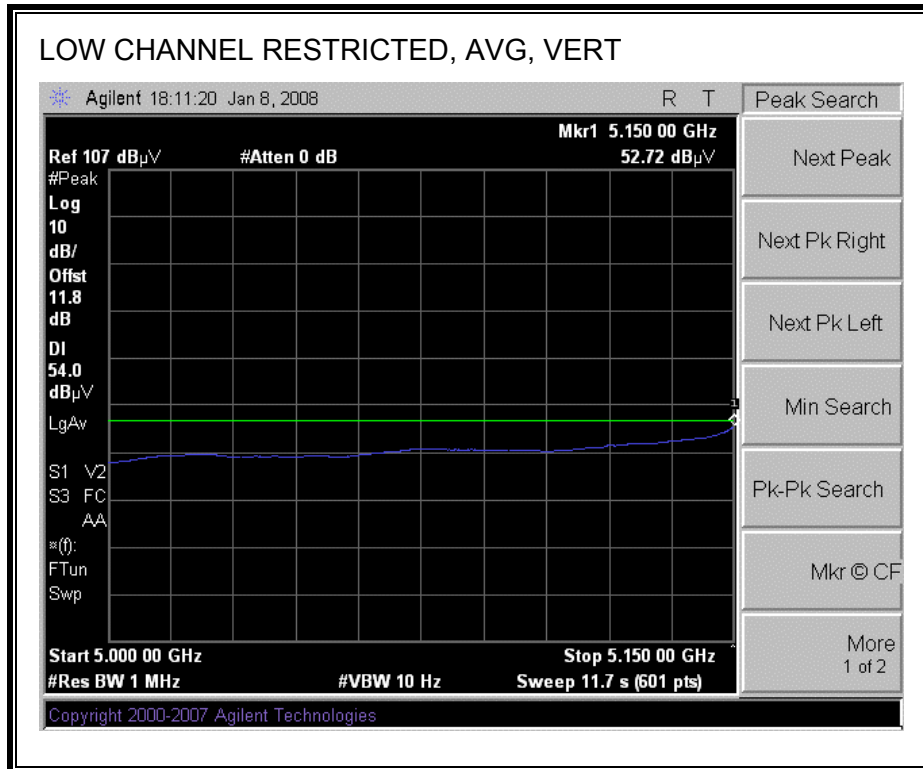
**RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)**



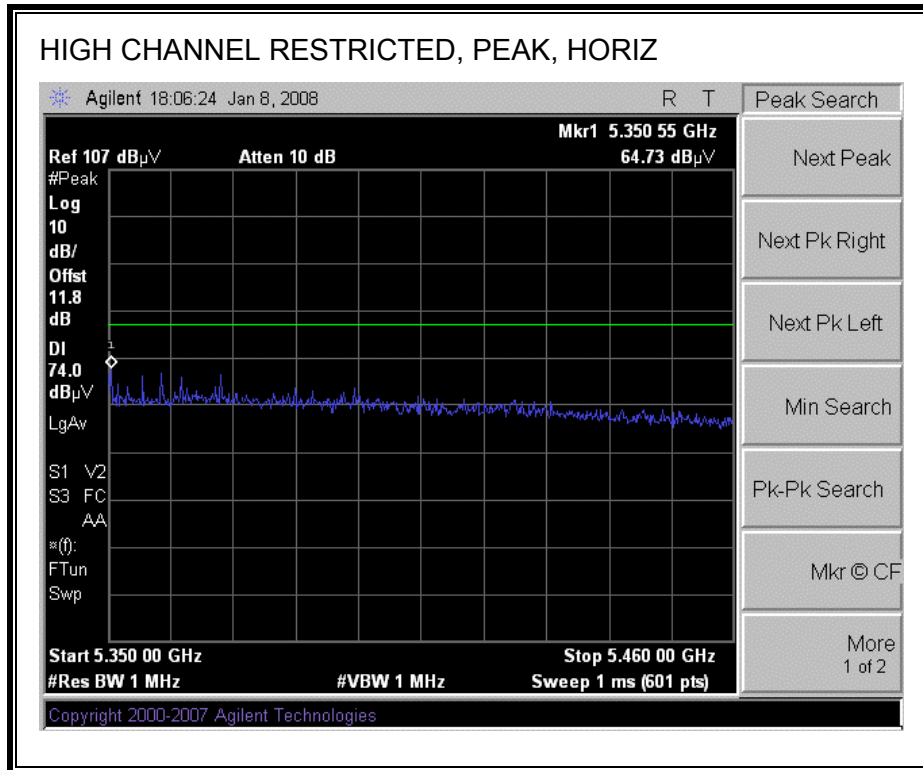


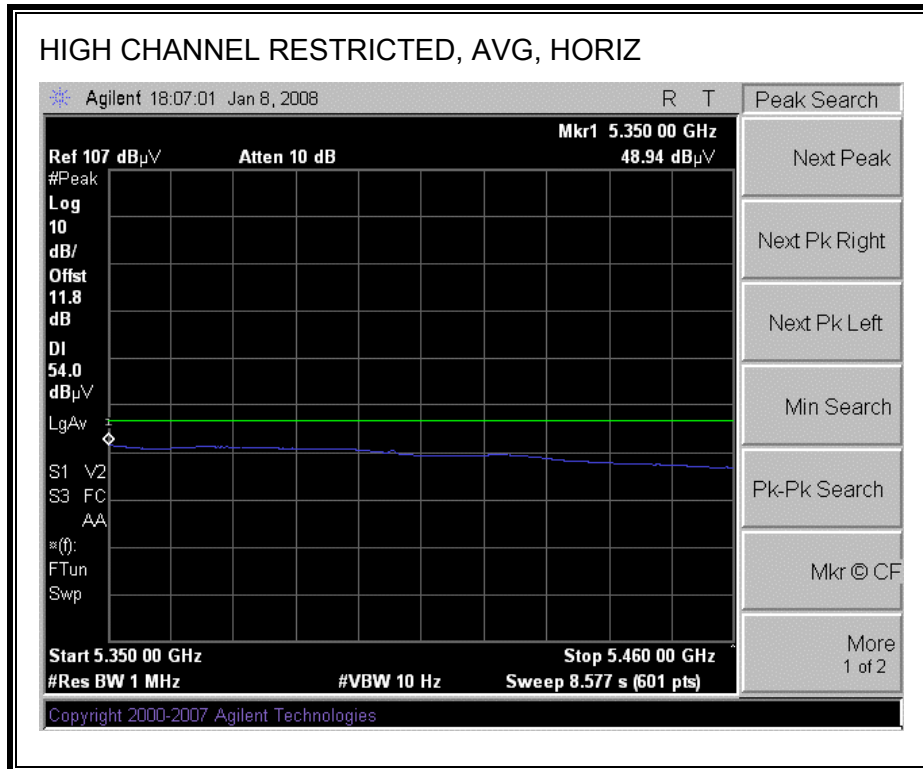
**RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)**





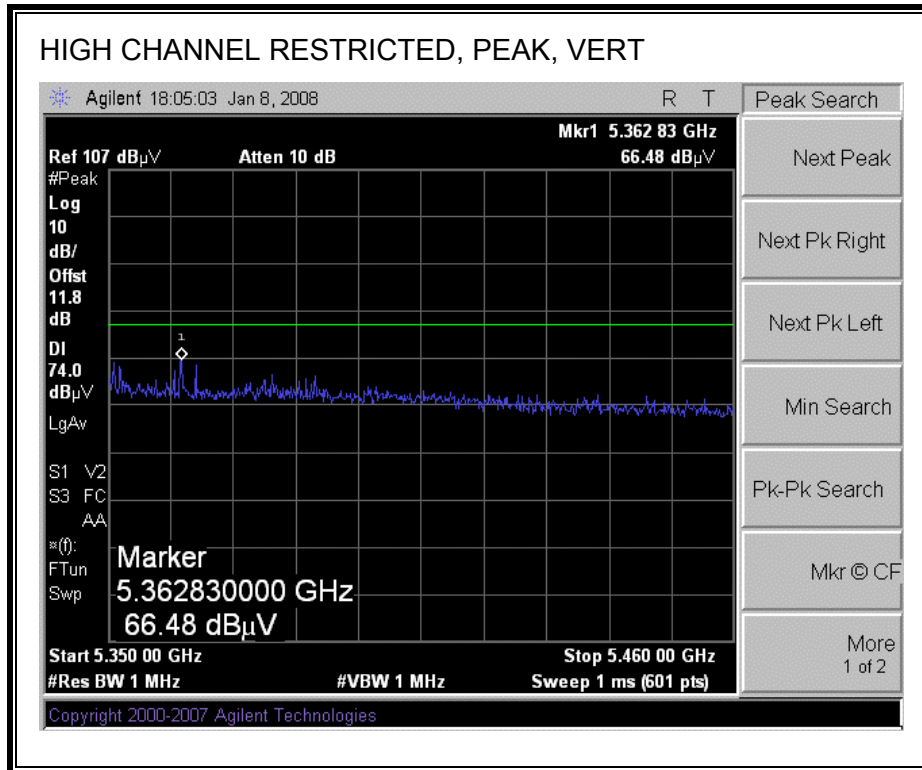
**RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)**

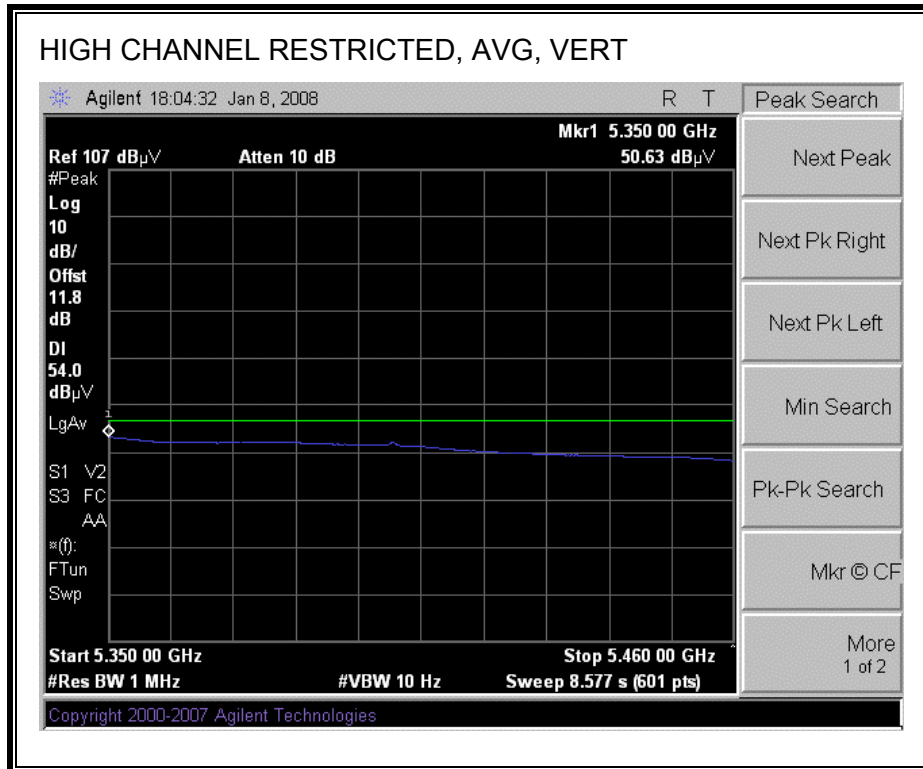






**RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)**





**HARMONICS AND SPURIOUS EMISSIONS**

**High Frequency Measurement**  
 Compliance Certification Services, Fremont 5m Chamber

Company: Proxim  
 Project #: 07U11459  
 Date: 1/08/2008  
 Test Engineer: Chin Pang  
 Configuration: EUT / Parabolic antenna (33.4dBi Gain)  
 Mode: 5.2GHz Band, Normal TX

**Test Equipment:**

Horn 1-18GHz	Pre-amplifier 1-26GHz	Pre-amplifier 26-40GHz	Horn > 18GHz	Limit
T120; S/N: 29310 @3m	T145 Agilent 3008A0051	T88 Miteq 26-40GHz	T39; ARA 18-26GHz; S/N:1013	FCC 15.205

Hi Frequency Cables

2 foot cable	3 foot cable	12 foot cable	HPF	Reject Filter	Peak Measurements RBW=VBW=1MHz Average Measurements RBW=1MHz ; VBW=10Hz
		B-5m Chamber	HPF_7.6GHz		

f GHz	Dist (m)	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Filtr dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)
<b>Low Ch (5180MHz)</b>															
15.540	3.0	42.0	29.6	39.0	12.9	-32.3	0.0	0.7	62.3	49.9	74	54	-11.7	-4.1	V
15.540	3.0	40.7	27.5	39.0	12.9	-32.3	0.0	0.7	61.0	47.8	74	54	-13.0	-6.2	H
<b>Mid Ch (5260MHz)</b>															
15.780	3.0	41.8	29.0	39.1	13.0	-32.2	0.0	0.7	62.4	49.6	74	54	-11.6	-4.4	V
15.780	3.0	40.3	27.5	39.1	13.0	-32.2	0.0	0.7	60.9	48.1	74	54	-13.1	-5.9	H
<b>High Ch (5320MHz)</b>															
10.640	3.0	42.6	30.0	37.5	11.0	-34.2	0.0	0.8	57.6	45.0	74	54	-16.4	-9.0	V
15.960	3.0	43.4	31.0	39.3	13.1	-32.2	0.0	0.7	64.2	51.8	74	54	-9.8	-2.2	V
10.640	3.0	41.0	29.3	37.5	11.0	-34.2	0.0	0.8	56.0	44.3	74	54	-18.0	-9.7	H
15.960	3.0	41.3	29.2	39.3	13.1	-32.2	0.0	0.7	62.1	50.0	74	54	-11.9	-4.0	H

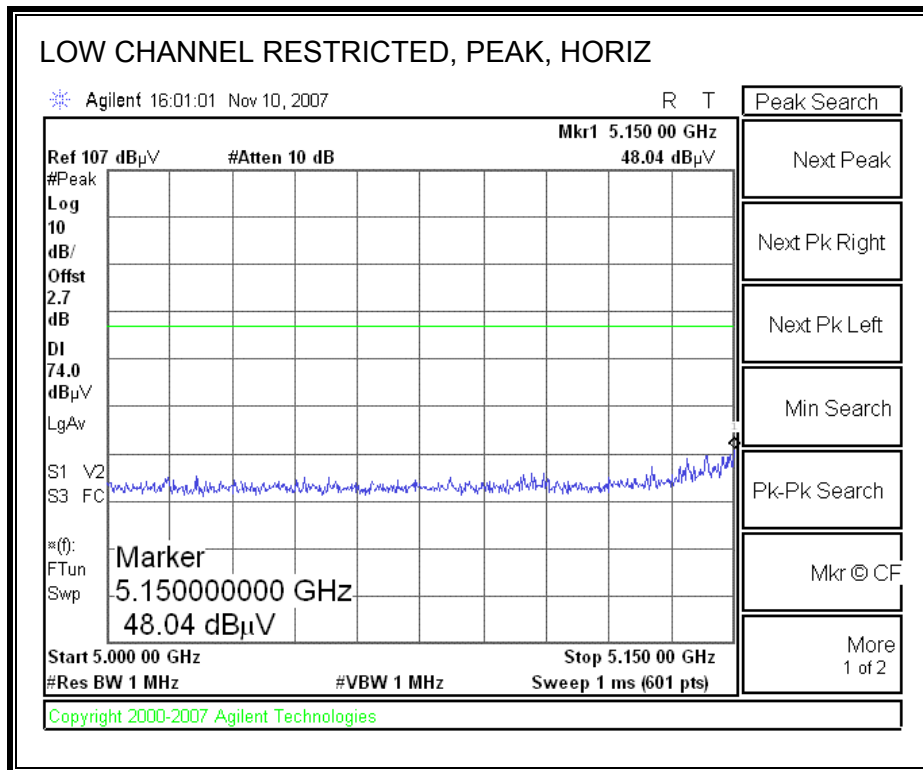
Rev. 4.12.7  
 Note: No other emissions were detected above the system noise floor.

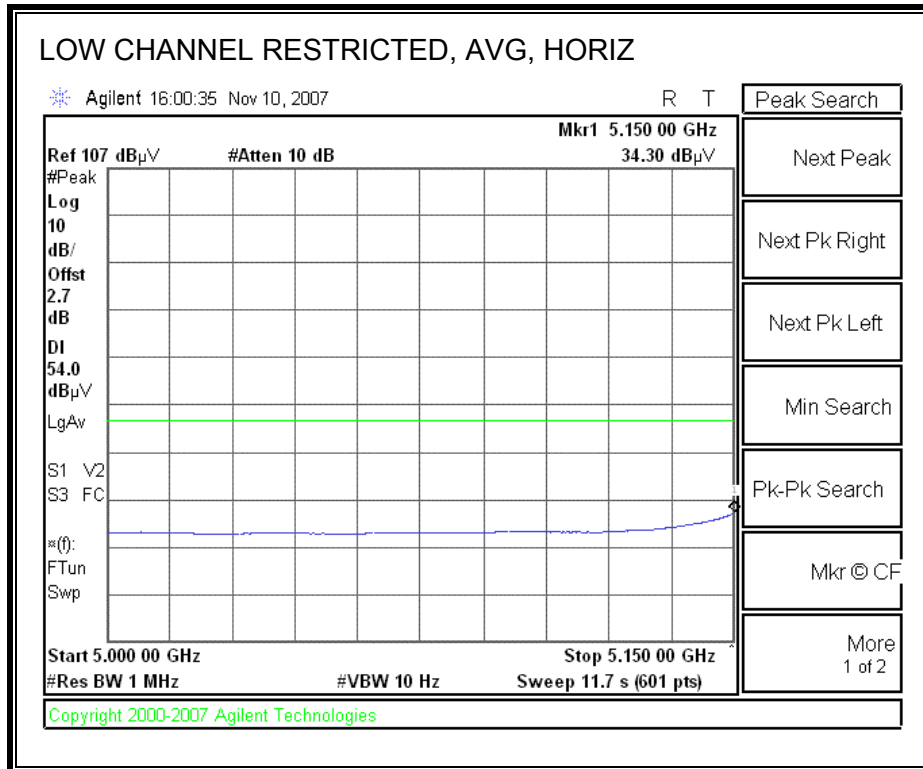
f	Measurement Frequency	Amp	Preamp Gain	Avg Lim	Average Field Strength Limit
Dist	Distance to Antenna	D Corr	Distance Correct to 3 meters	Pk Lim	Peak Field Strength Limit
Read	Analyzer Reading	Avg	Average Field Strength @ 3 m	Avg Mar	Margin vs. Average Limit
AF	Antenna Factor	Peak	Calculated Peak Field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

### 7.1.2. TRANSMITTER ABOVE 1 GHz FOR 802.11a TURBO MODE IN THE 5.2 GHz BAND

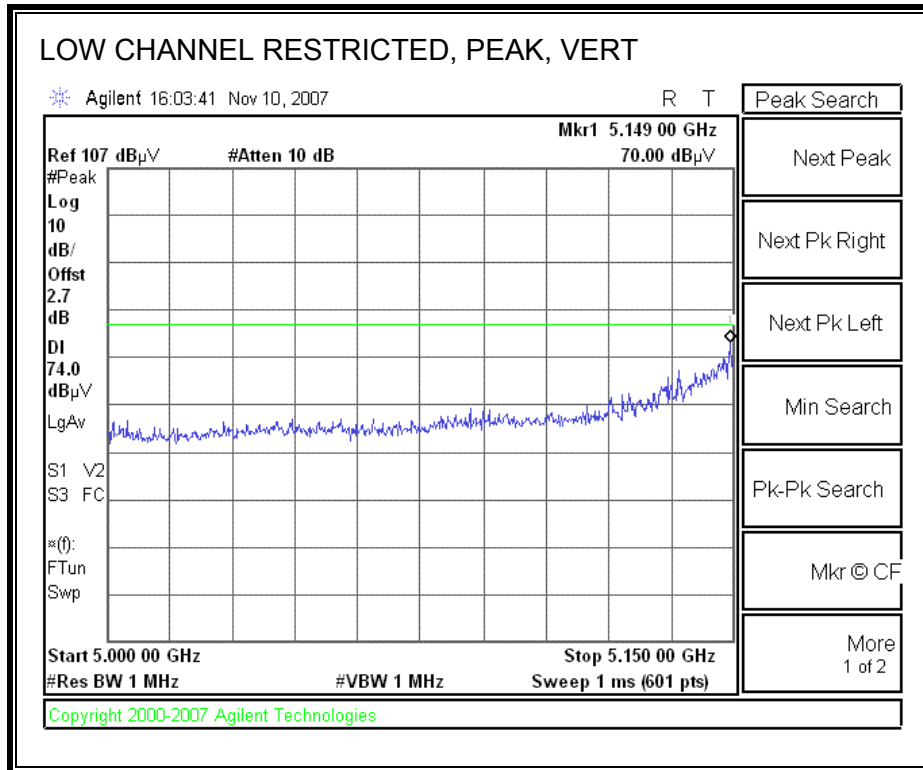
WITH SECTOR ANTENNA

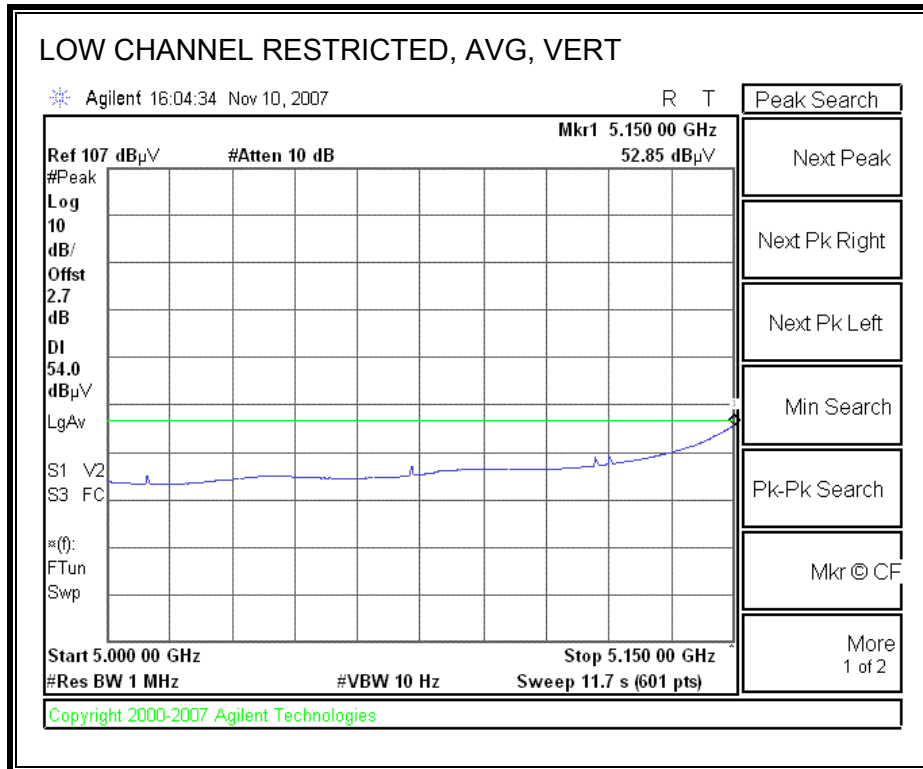
RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



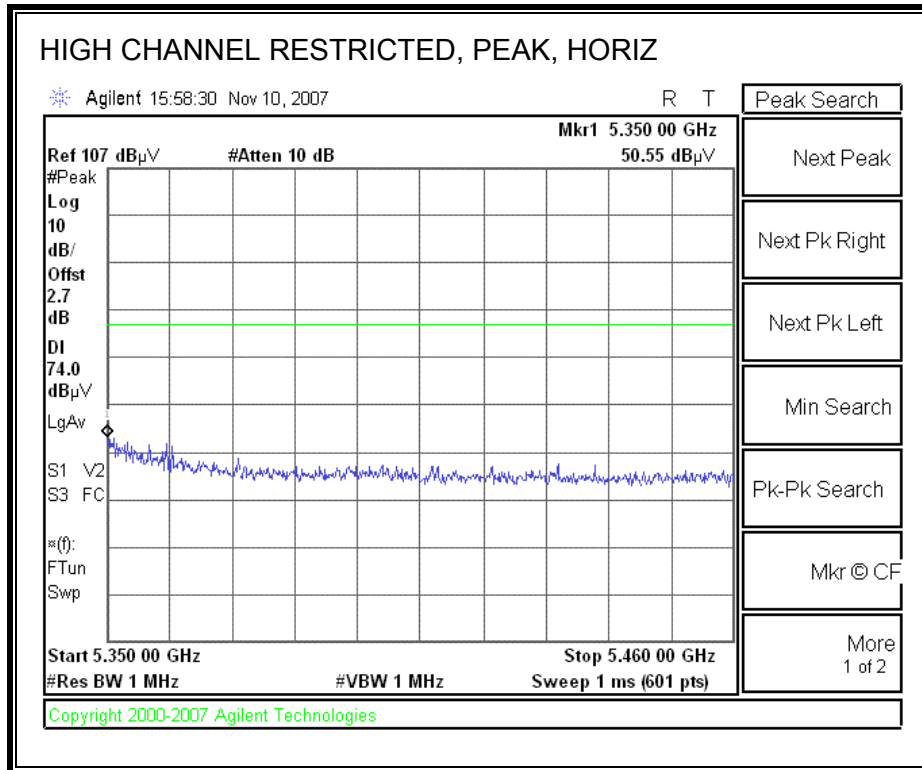


**RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)**

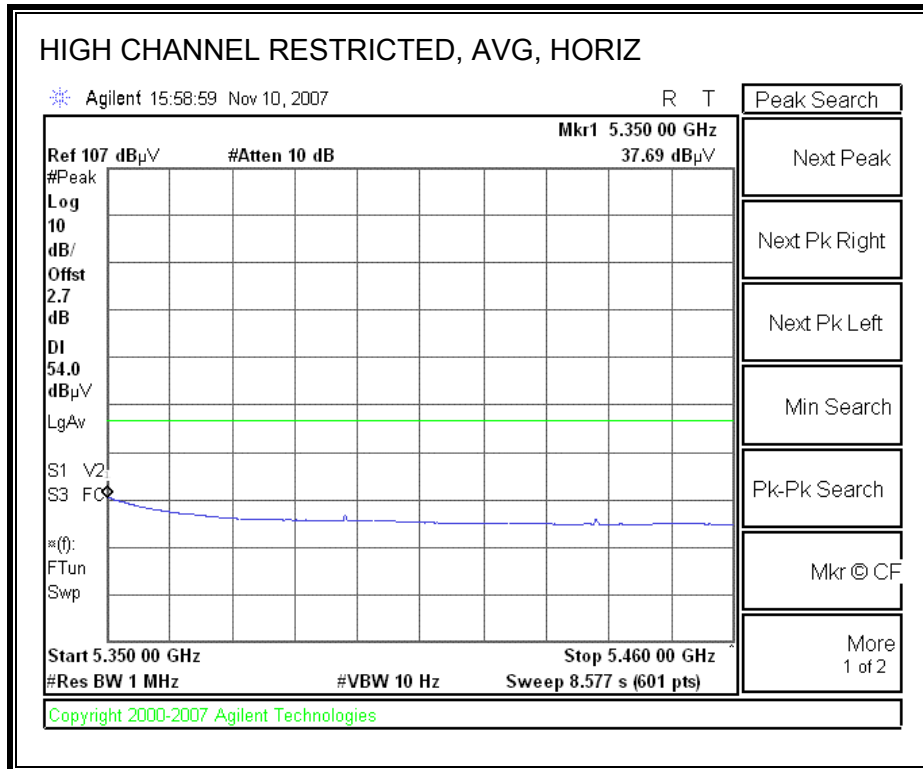




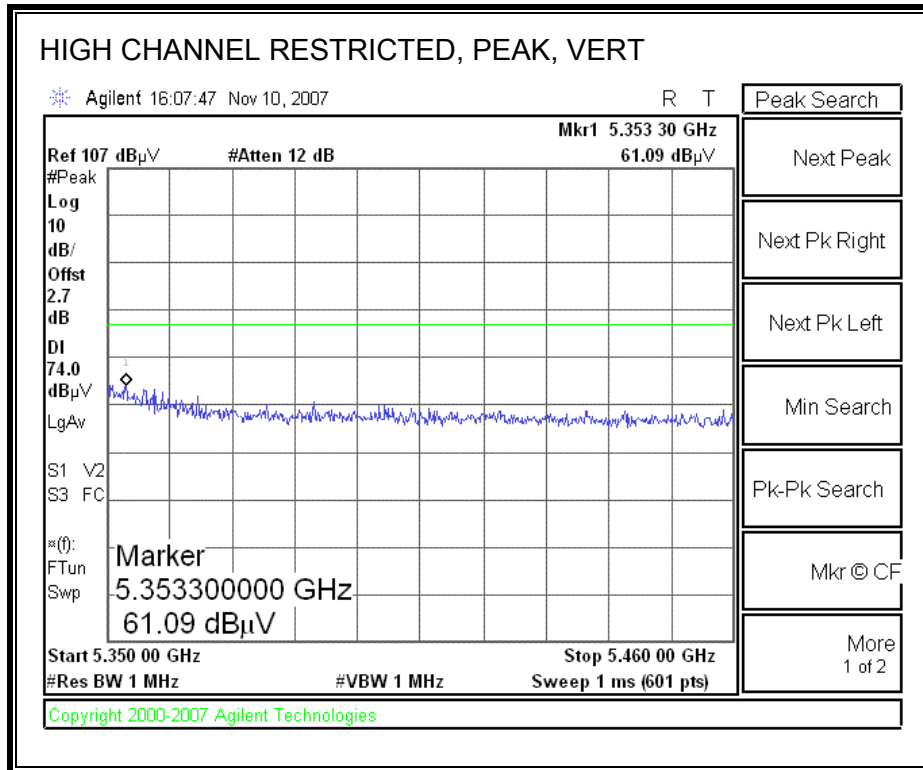
**RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)**

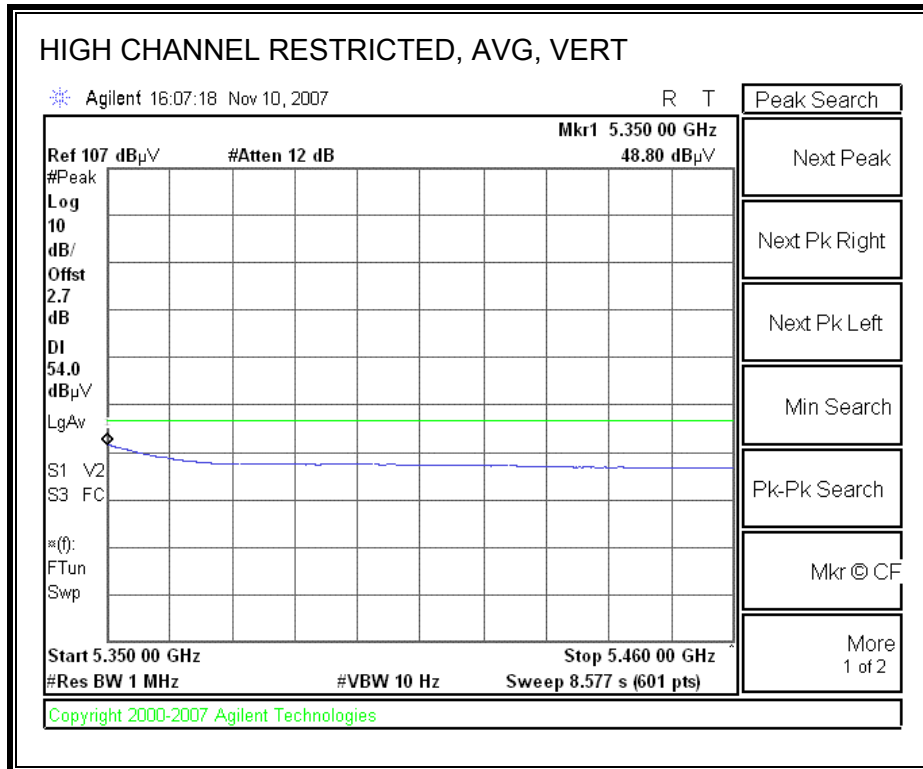






**RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)**





**HARMONICS AND SPURIOUS EMISSIONS**

**High Frequency Measurement**  
 Compliance Certification Services, Fremont 5m Chamber

Company: Proxim  
 Project #: 07U11459  
 Date: 11/13/2007  
 Test Engineer: William Zhuang  
 Configuration: EUT/Sector antenna  
 Mode: 5.2GHz Band, Trubo TX

**Test Equipment:**

Horn 1-18GHz	Pre-amplifer 1-26GHz	Pre-amplifer 26-40GHz	Horn > 18GHz	Limit
T119; S/N: 29301 @3m	T34 HP 8449B	T88 Miteq 26-40GHz	T89; ARA 18-26GHz; S/N:1049	FCC 15.209

Hi Frequency Cables

2 foot cable	3 foot cable	12 foot cable	HPF	Reject Filter	Peak Measurements RBW=VBW=1MHz
Chin 177079003		C-5m Chamber	HPF_7.6GHz		Average Measurements RBW=1MHz ; VBW=10Hz

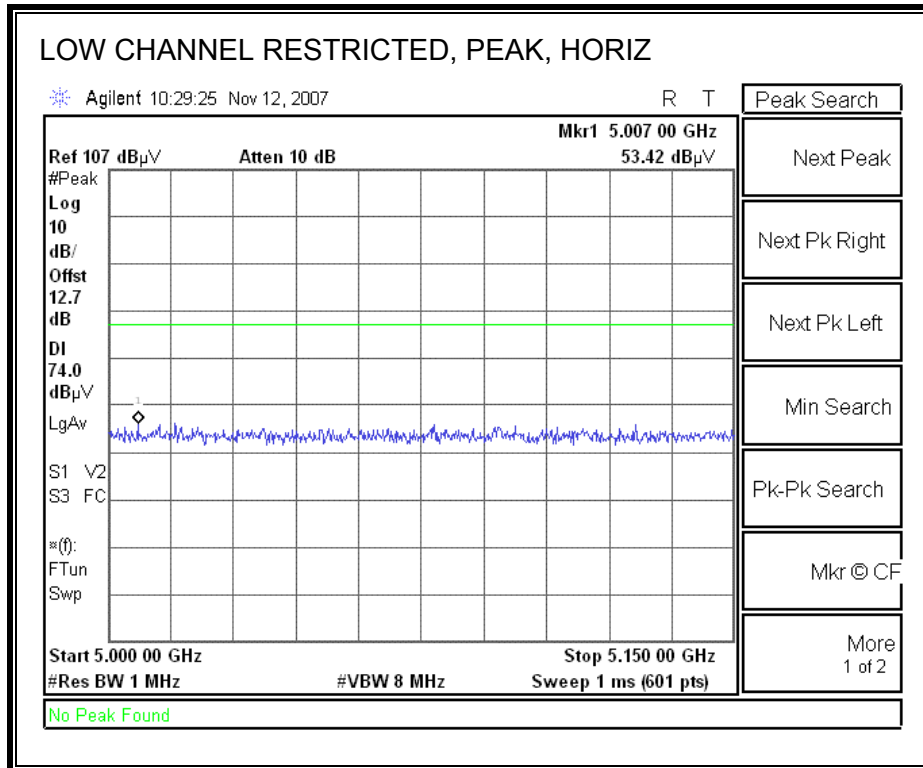
f GHz	Dist (m)	Read Pk dBuV	Read Avg dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Fltr dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)
<b>Low Ch, 5210MHz</b>															
10.420	3.0	45.0	33.0	36.7	1.0	-32.6	0.0	0.8	50.9	38.9	74	54	-23.1	-15.1	V
15.630	3.0	43.8	31.1	38.7	1.3	-32.2	0.0	0.7	52.3	39.6	74	54	-21.7	-14.4	V
10.420	3.0	42.0	30.4	36.7	1.0	-32.6	0.0	0.8	47.9	36.3	74	54	-26.1	-17.7	H
15.630	3.0	40.6	29.7	38.7	1.3	-32.2	0.0	0.7	49.1	38.2	74	54	-24.9	-15.8	H
<b>Mid Ch 5250MHz</b>															
10.500	3.0	46.2	33.6	36.8	1.0	-32.6	0.0	0.8	52.1	39.5	74	54	-21.9	-14.5	V
15.750	3.0	44.4	32.3	38.8	1.3	-32.2	0.0	0.7	53.0	40.9	74	54	-21.0	-13.1	V
10.500	3.0	43.2	30.5	36.8	1.0	-32.6	0.0	0.8	49.1	36.4	74	54	-24.9	-17.6	H
15.750	3.0	41.2	30.0	38.8	1.3	-32.2	0.0	0.7	49.8	38.6	74	54	-24.2	-15.4	H
<b>High Ch, 5290MHz</b>															
10.580	3.0	45.5	32.3	36.8	1.0	-32.6	0.0	0.8	51.5	38.3	74	54	-22.5	-15.7	V
15.870	3.0	43.1	30.8	38.8	1.3	-32.1	0.0	0.7	51.7	39.4	74	54	-22.3	-14.6	V
10.580	3.0	43.2	31.0	36.8	1.0	-32.6	0.0	0.8	49.2	37.0	74	54	-24.8	-17.0	H
15.870	3.0	41.5	30.2	38.8	1.3	-32.1	0.0	0.7	50.1	38.8	74	54	-23.9	-15.2	H

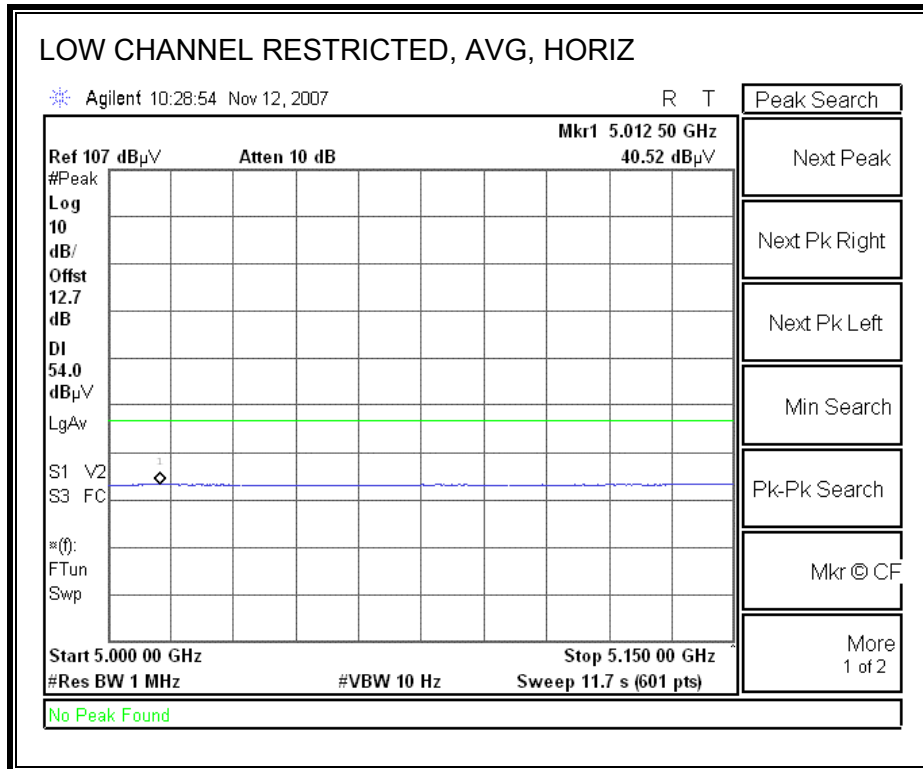
Rev. 4127  
**Note: No other emissions were detected above the system noise floor.**

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
CL	Cable Loss	HPF	High Pass Filter		

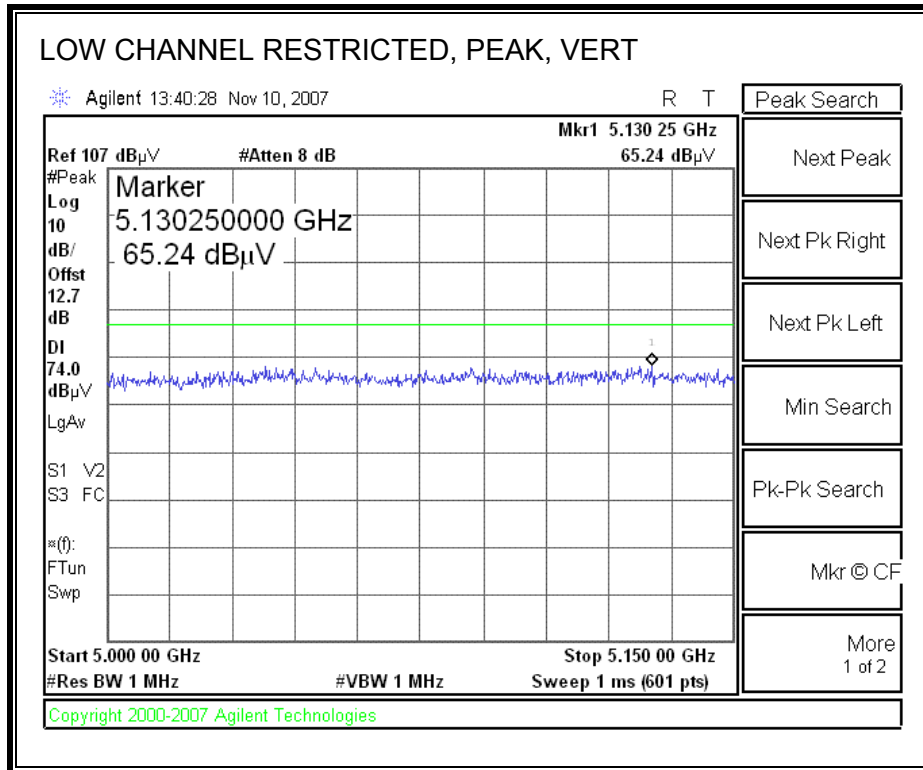
**WITH PANEL ANTENNA**

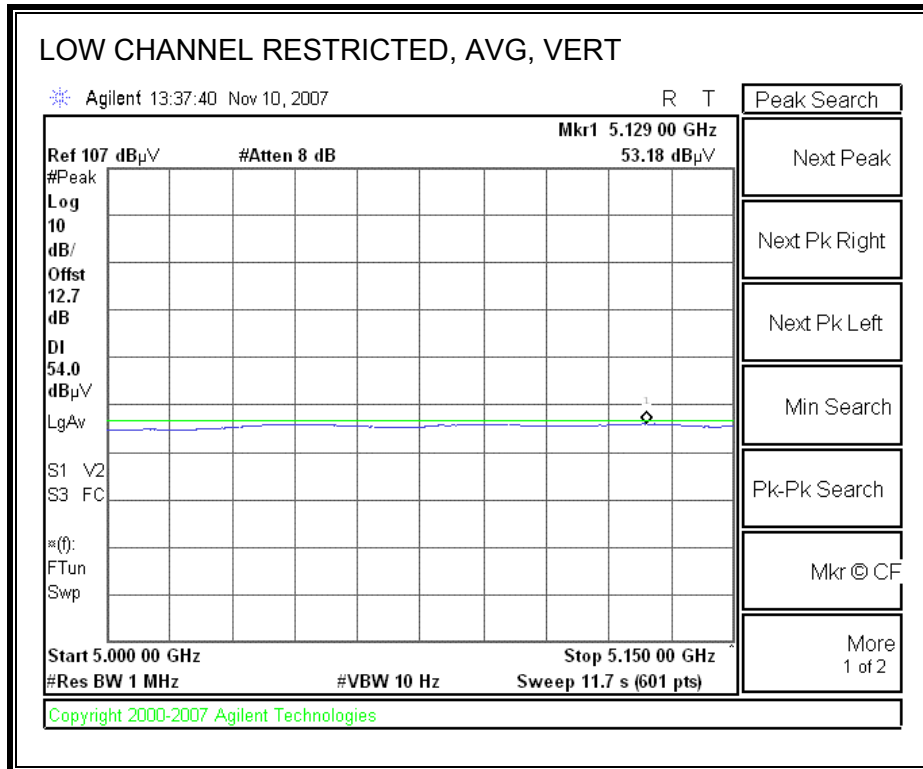
**RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)**





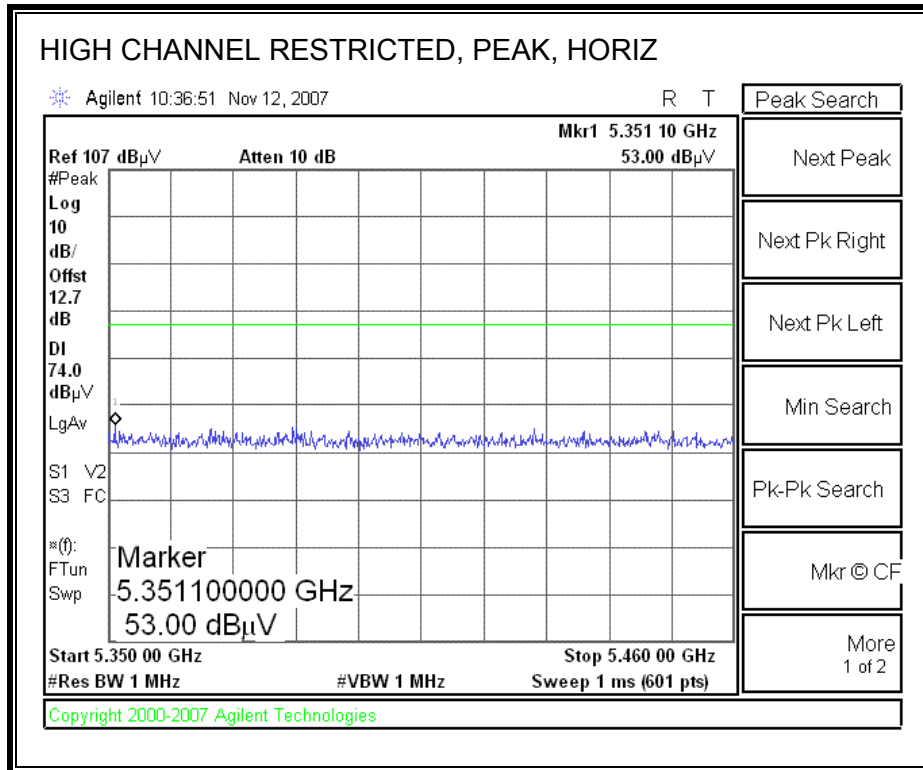
**RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)**

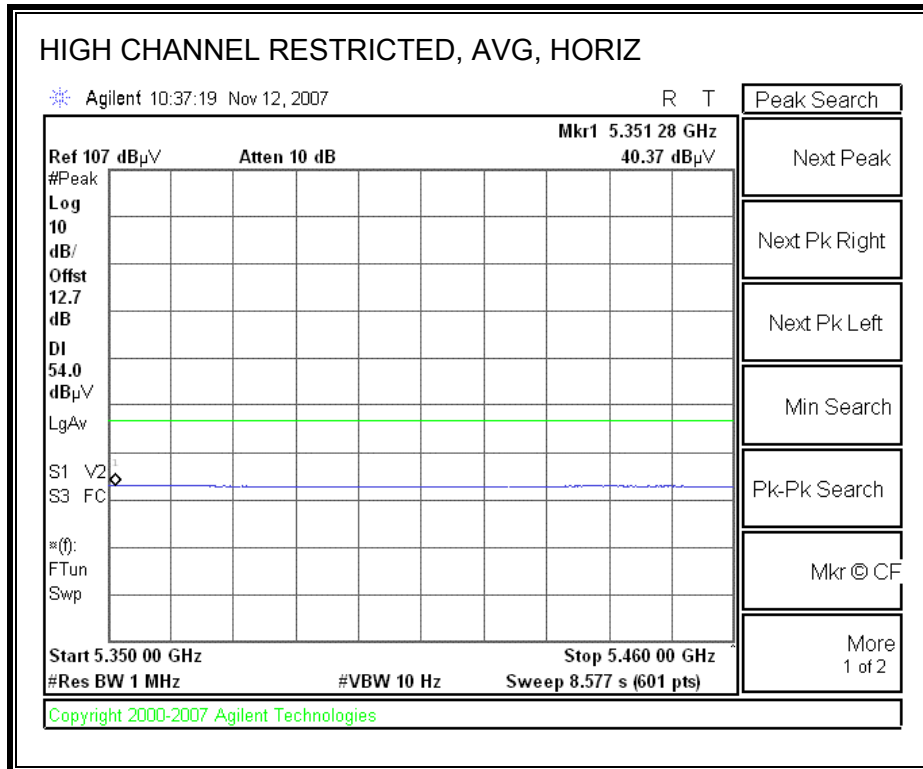




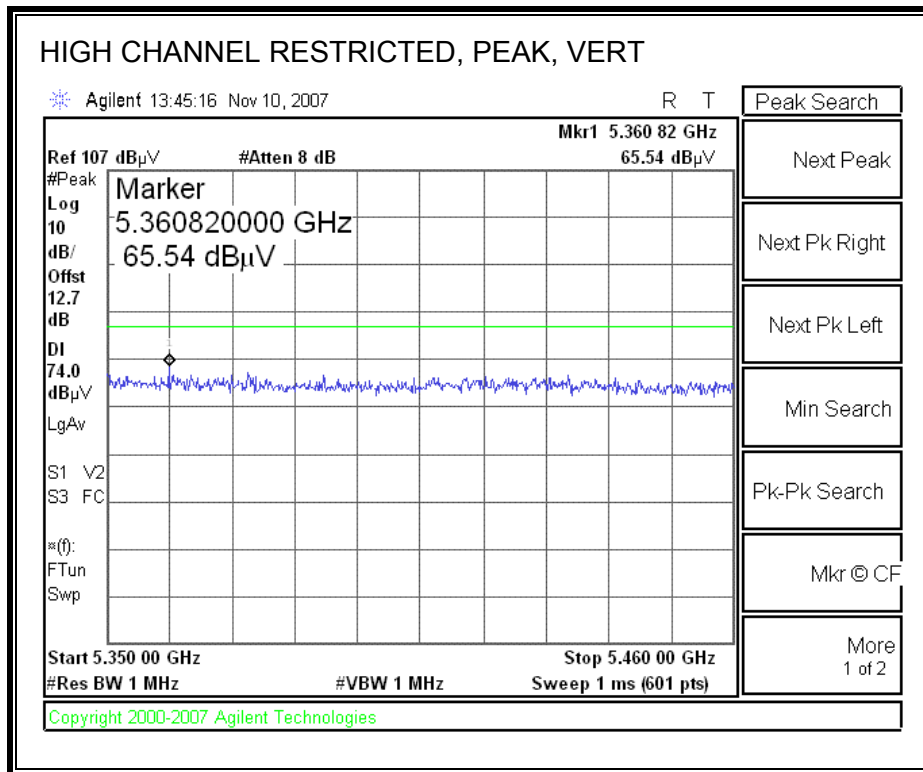


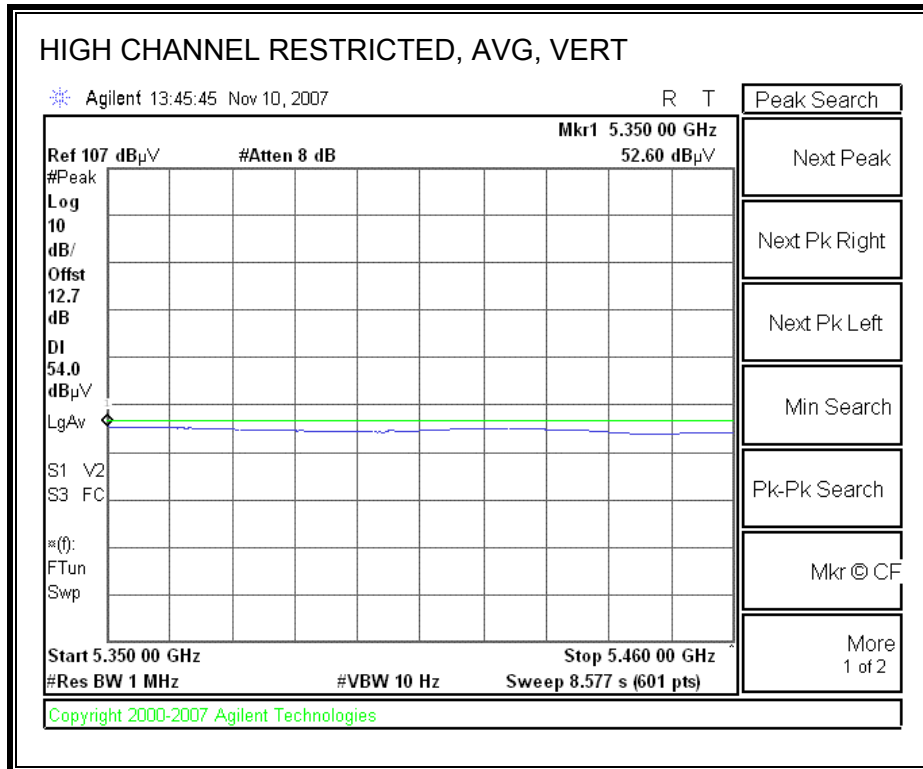
**RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)**





**RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)**





**HARMONICS AND SPURIOUS EMISSIONS**

**High Frequency Measurement**  
 Compliance Certification Services, Fremont 5m Chamber

Company: Proxim  
 Project #: 07U11459  
 Date: 11/13/2007  
 Test Engineer: William Zhuang  
 Configuration: EUT/Sector antenna  
 Mode: 5.2GHz Band, Trubo TX

**Test Equipment:**

Horn 1-18GHz	Pre-amplifier 1-26GHz	Pre-amplifier 26-40GHz	Horn > 18GHz	Limit
T119; S/N: 29301 @3m	T34 HP 8449B	T88 Miteq 26-40GHz	T89; ARA 18-26GHz; S/N:1049	FCC 15.209

Hi Frequency Cables

2 foot cable	3 foot cable	12 foot cable	HPF	Reject Filter	Peak Measurements RBW=VBW=1MHz
Chin 177079003		C-5m Chamber	HPF_7.6GHz		Average Measurements RBW=1MHz; VBW=10Hz

f GHz	Dist (m)	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Filtr dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)
<b>Low Ch, 5210MHz</b>															
10.420	3.0	45.0	33.0	36.7	1.0	-32.6	0.0	0.8	50.9	38.9	74	54	-23.1	-15.1	V
15.630	3.0	43.8	31.1	38.7	1.3	-32.2	0.0	0.7	52.3	39.6	74	54	-21.7	-14.4	V
10.420	3.0	42.0	30.4	36.7	1.0	-32.6	0.0	0.8	47.9	36.3	74	54	-26.1	-17.7	H
15.630	3.0	40.6	29.7	38.7	1.3	-32.2	0.0	0.7	49.1	38.2	74	54	-24.9	-15.8	H
<b>Mid Ch 5250MHz</b>															
10.500	3.0	46.2	33.6	36.8	1.0	-32.6	0.0	0.8	52.1	39.5	74	54	-21.9	-14.5	V
15.750	3.0	44.4	32.3	38.8	1.3	-32.2	0.0	0.7	53.0	40.9	74	54	-21.0	-13.1	V
10.500	3.0	43.2	30.5	36.8	1.0	-32.6	0.0	0.8	49.1	36.4	74	54	-24.9	-17.6	H
15.750	3.0	41.2	30.0	38.8	1.3	-32.2	0.0	0.7	49.8	38.6	74	54	-24.2	-15.4	H
<b>High Ch, 5290MHz</b>															
10.580	3.0	45.5	32.3	36.8	1.0	-32.6	0.0	0.8	51.5	38.3	74	54	-22.5	-15.7	V
15.870	3.0	43.1	30.8	38.8	1.3	-32.1	0.0	0.7	51.7	39.4	74	54	-22.3	-14.6	V
10.580	3.0	43.2	31.0	36.8	1.0	-32.6	0.0	0.8	49.2	37.0	74	54	-24.8	-17.0	H
15.870	3.0	41.5	30.2	38.8	1.3	-32.1	0.0	0.7	50.1	38.8	74	54	-23.9	-15.2	H

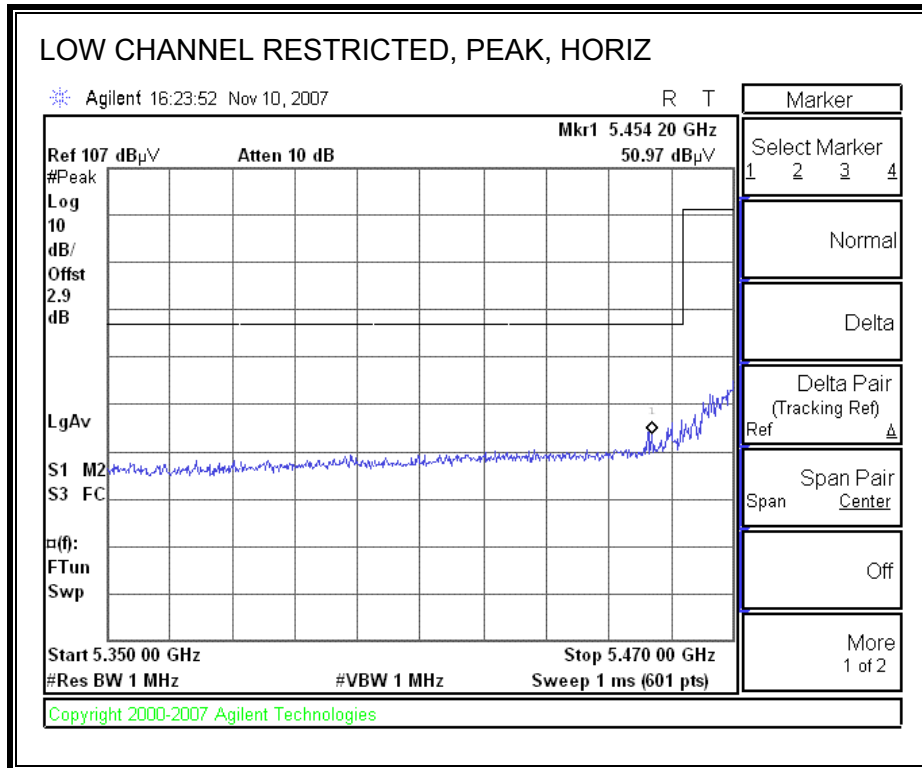
Rev. 4.12.7  
**Note: No other emissions were detected above the system noise floor.**

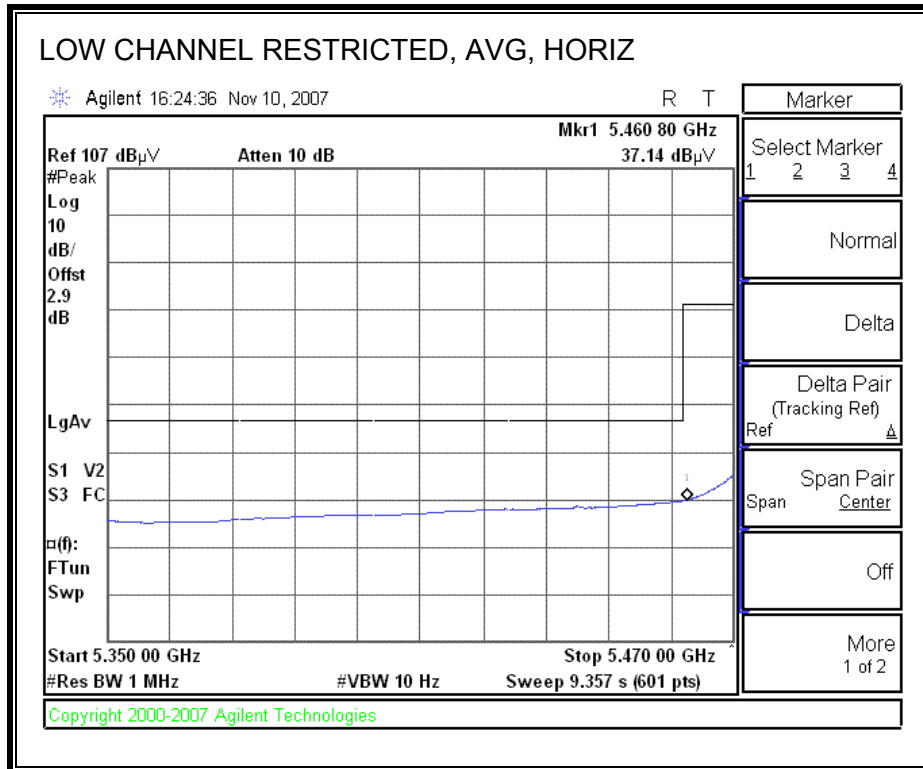
f	Measurement Frequency	Amp	Preamp Gain	Avg Lim	Average Field Strength Limit
Dist	Distance to Antenna	D Corr	Distance Correct to 3 meters	Pk Lim	Peak Field Strength Limit
Read	Analyzer Reading	Avg	Average Field Strength @ 3 m	Avg Mar	Margin vs. Average Limit
AF	Antenna Factor	Peak	Calculated Peak Field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

### 7.1.3. TRANSMITTER ABOVE 1 GHz FOR 802.11a MODE IN THE 5.6 GHz BAND

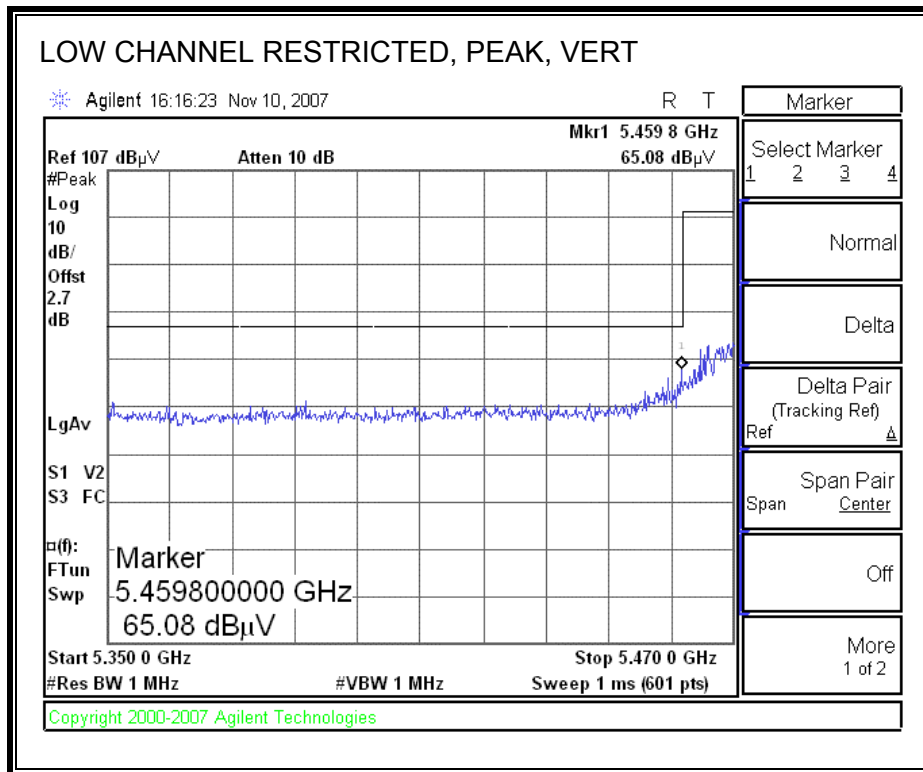
#### SECTOR ANTENNA

#### RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)

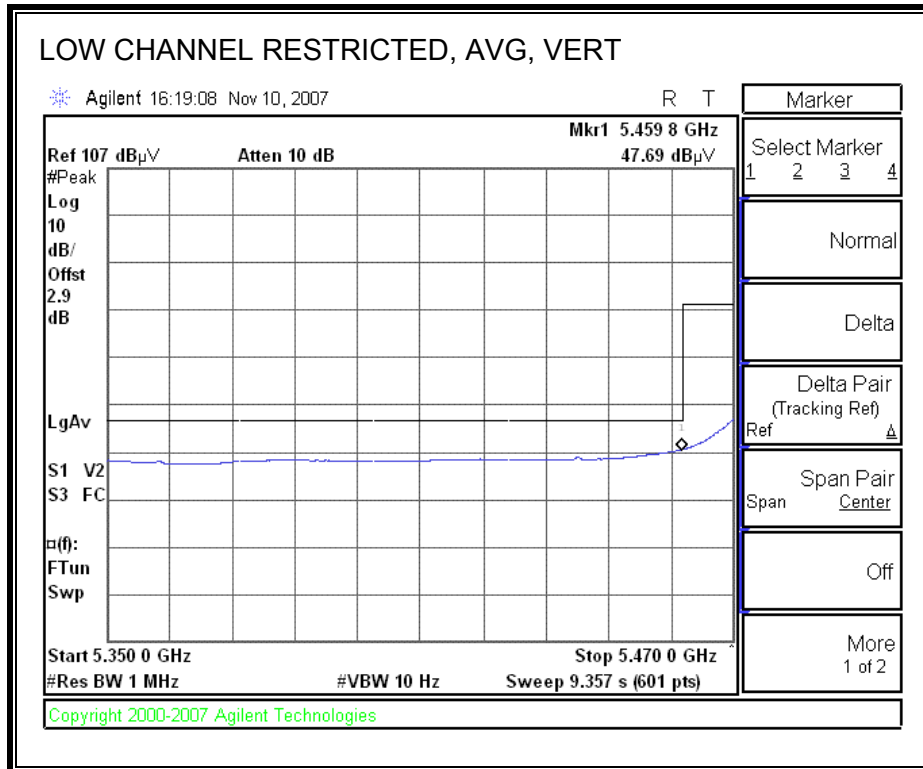




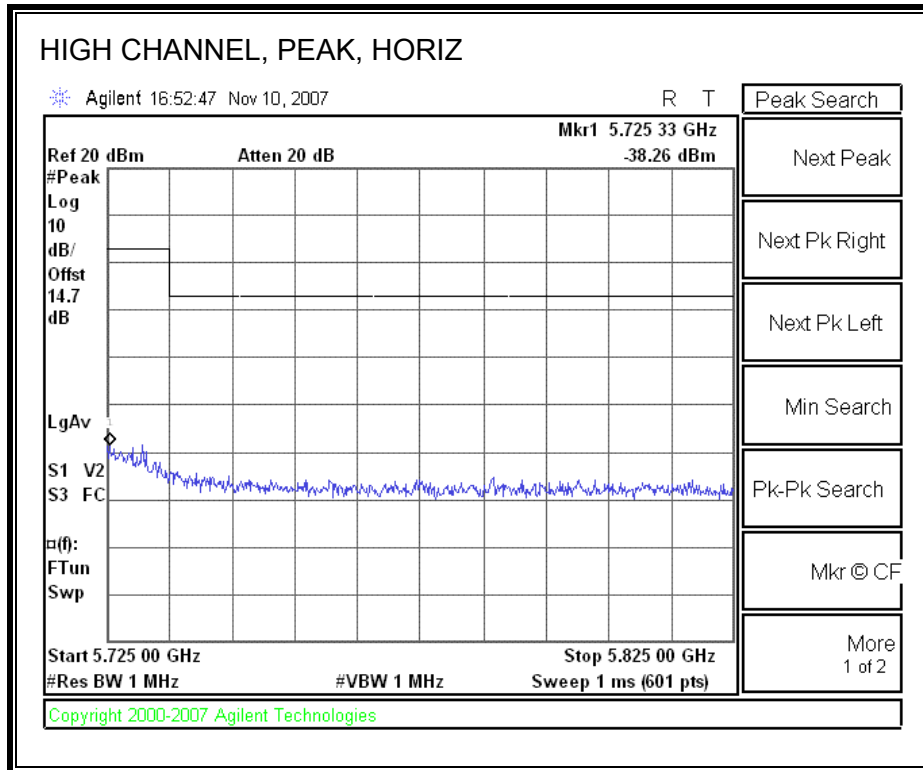
**RESTRICTED BANDEGE (LOW CHANNEL, VERTICAL)**

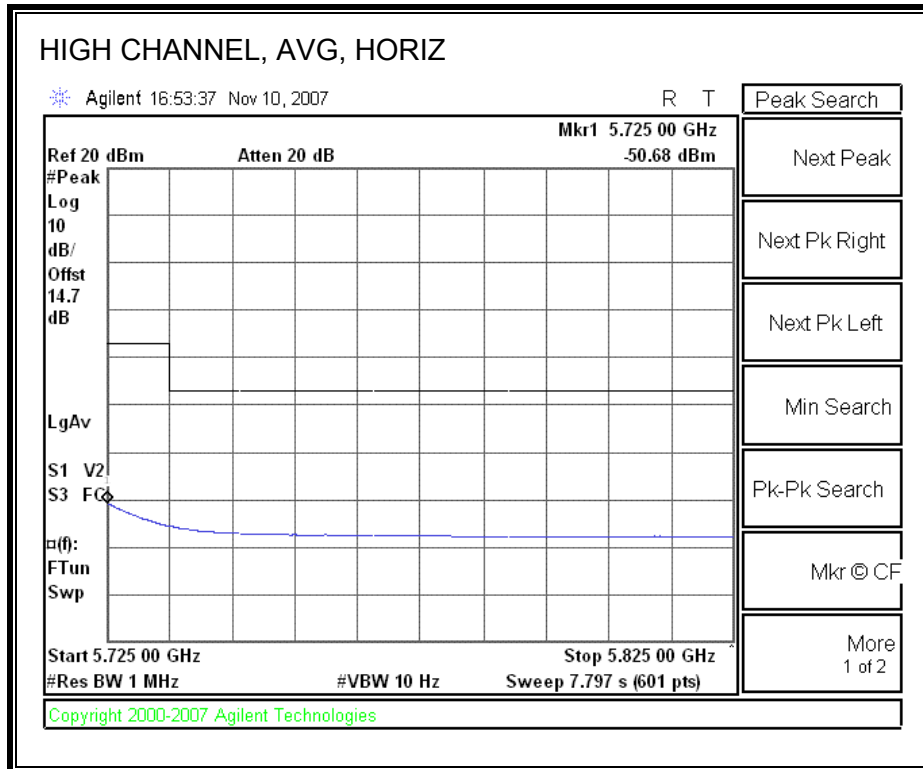




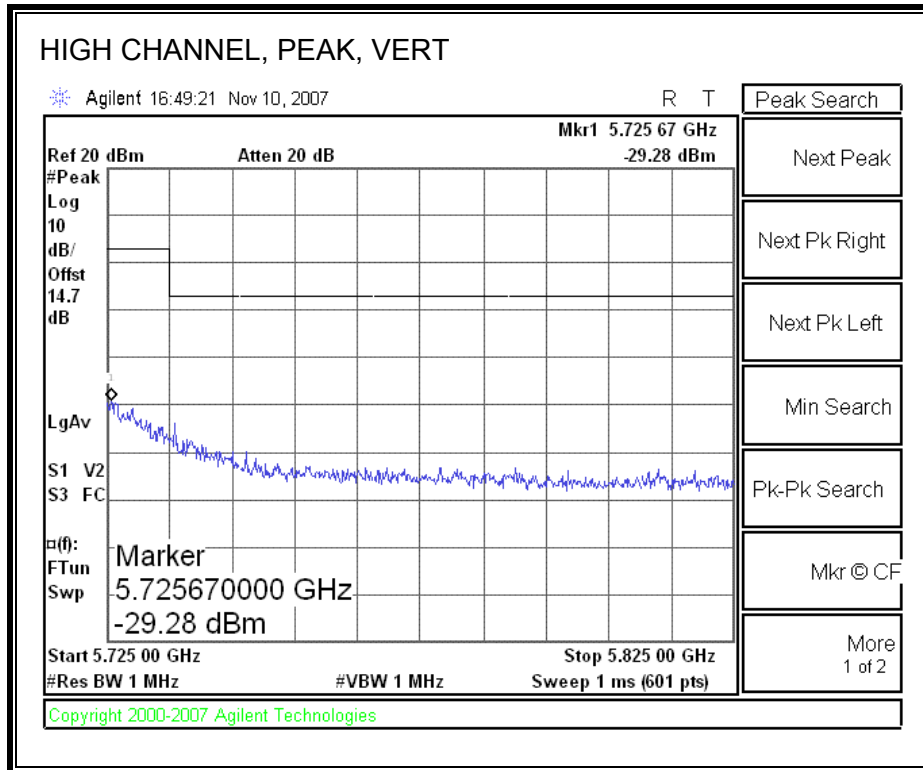


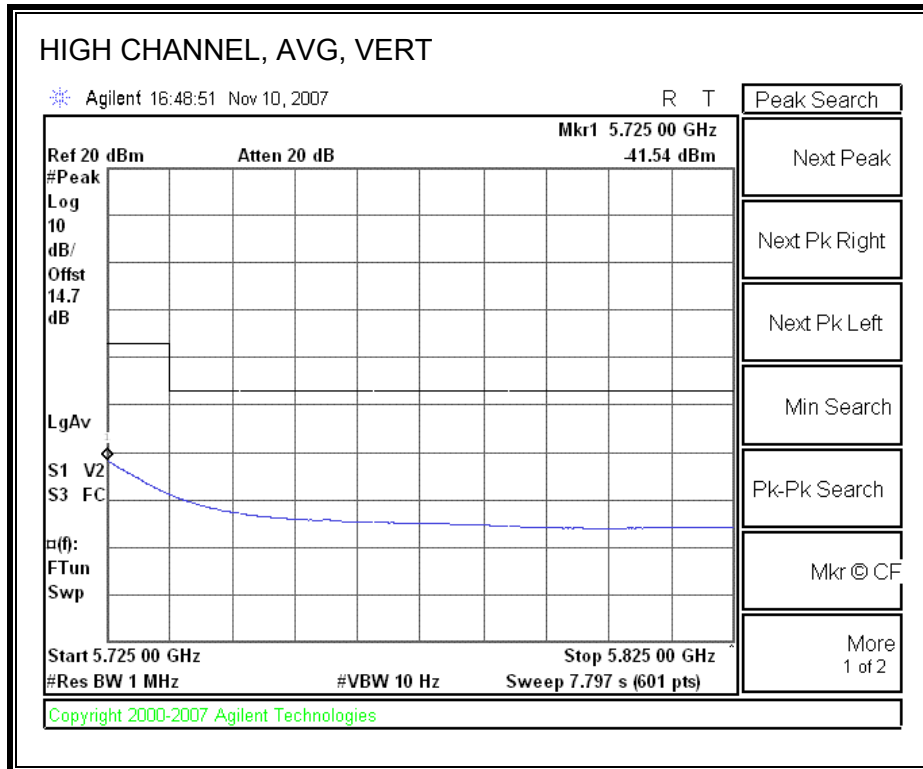
**AUTHORIZED BANDEDGE (HIGH CHANNEL, HORIZONTAL)**





**AUTHORIZED BANDEDGE (HIGH CHANNEL, VERTICAL)**





**HARMONICS AND SPURIOUS EMISSIONS**

**High Frequency Measurement**  
 Compliance Certification Services, Fremont 5m Chamber

Company: Proxim  
 Project #: 07U11459  
 Date: 11/17/2007  
 Test Engineer: Chin pang  
 Configuration: EUT/Sector antenna  
 Mode: 5.5GHz Band, Normal TX

**Test Equipment:**

Horn 1-18GHz	Pre-amplifier 1-26GHz	Pre-amplifier 26-40GHz	Horn > 18GHz	Limit
T119; S/N: 29301 @3m	T34 HP 8449B	T88 Miteq 26-40GHz	T39; ARA 18-26GHz; S/N:1013	FCC 15.209

Hi Frequency Cables

2 foot cable	3 foot cable	12 foot cable	HPF	Reject Filter	Peak Measurements RBW=VBW=1MHz
		C-5m Chamber	HPF_7.6GHz		Average Measurements RBW=1MHz ; VBW=10Hz

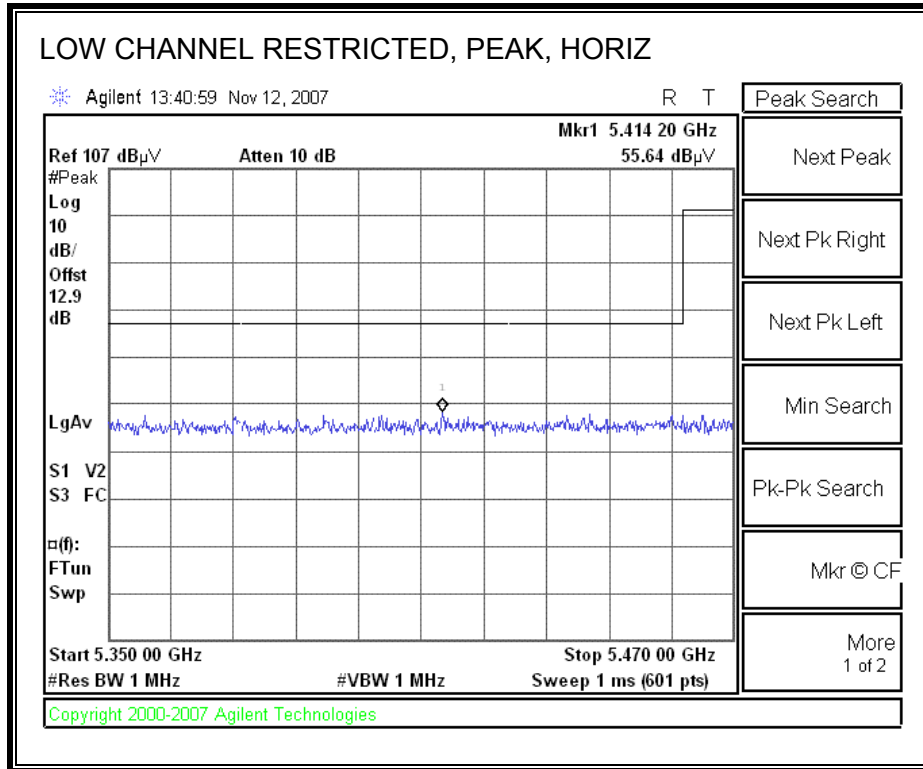
f GHz	Dist (m)	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Filtr dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)
<b>Low Ch, 5500MHz</b>															
11.000	3.0	46.5	34.0	37.0	0.0	-32.6	0.0	0.7	51.7	39.2	74	54	-22.3	-14.8	V
16.500	3.0	44.0	31.3	39.5	0.0	-32.0	0.0	0.7	52.1	39.4	74	54	-21.9	-14.6	V
11.000	3.0	45.0	32.0	37.0	0.0	-32.6	0.0	0.7	50.2	37.2	74	54	-23.8	-16.8	H
16.500	3.0	42.0	30.4	39.5	0.0	-32.0	0.0	0.7	50.1	38.5	74	54	-23.9	-15.5	H
<b>Mid Ch, 5600MHz</b>															
11.200	3.0	47.2	34.6	37.1	0.0	-32.6	0.0	0.7	52.4	39.8	74	54	-21.6	-14.2	V
16.800	3.0	44.8	32.0	39.9	0.0	-32.0	0.0	0.7	53.4	40.6	74	54	-20.6	-13.4	V
11.200	3.0	45.6	31.7	37.1	0.0	-32.6	0.0	0.7	50.8	36.9	74	54	-23.2	-17.1	H
16.800	3.0	42.3	30.5	39.9	0.0	-32.0	0.0	0.7	50.9	39.1	74	54	-23.1	-14.9	H
<b>High Ch, 5700Mhz</b>															
11.400	3.0	46.2	33.6	37.1	0.0	-32.5	0.0	0.7	51.5	38.9	74	54	-22.5	-15.1	V
17.100	3.0	44.2	31.6	40.2	0.0	-32.0	0.0	0.7	53.1	40.5	74	54	-20.9	-13.5	V
11.340	3.0	44.0	31.5	37.1	0.0	-32.6	0.0	0.7	49.3	36.8	74	54	-24.7	-17.2	H
17.010	3.0	43.6	31.0	40.2	0.0	-32.0	0.0	0.7	52.5	39.9	74	54	-21.5	-14.1	H

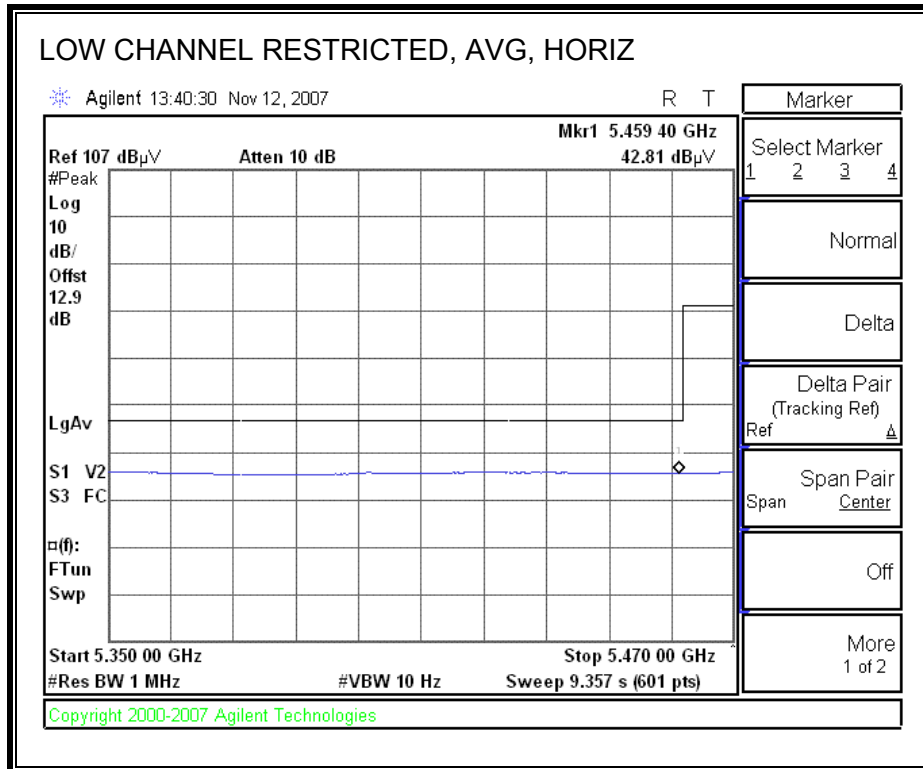
Rev. 4127  
**Note: No other emissions were detected above the system noise floor.**

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
CL	Cable Loss	HPF	High Pass Filter		

**PANEL ANTENNA**

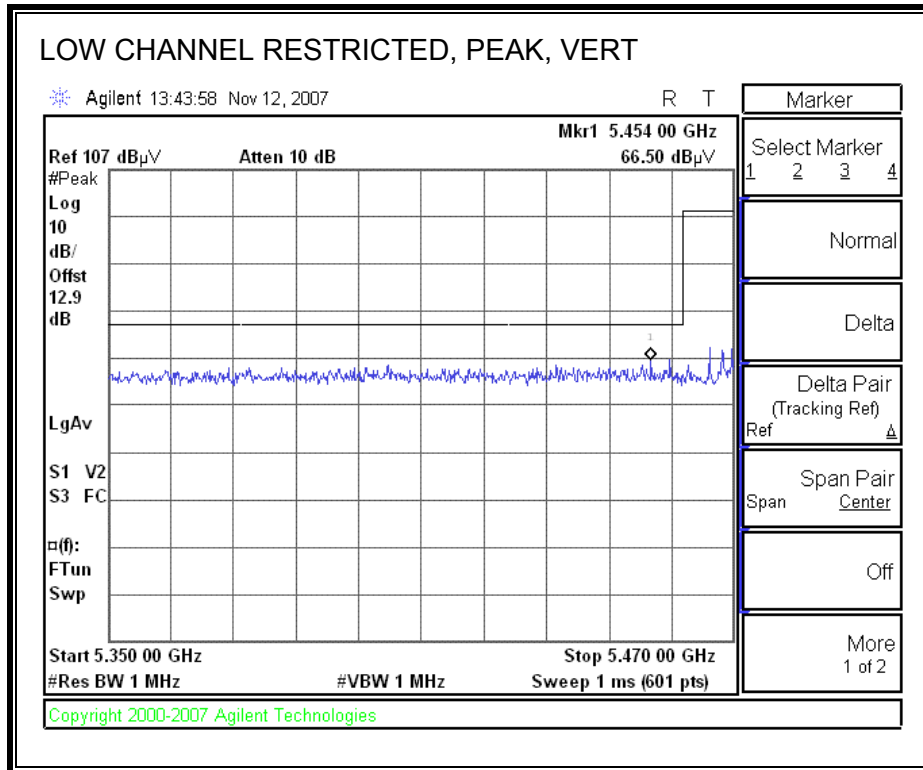
**RESTRICTED BANDEGE (LOW CHANNEL, HORIZONTAL)**

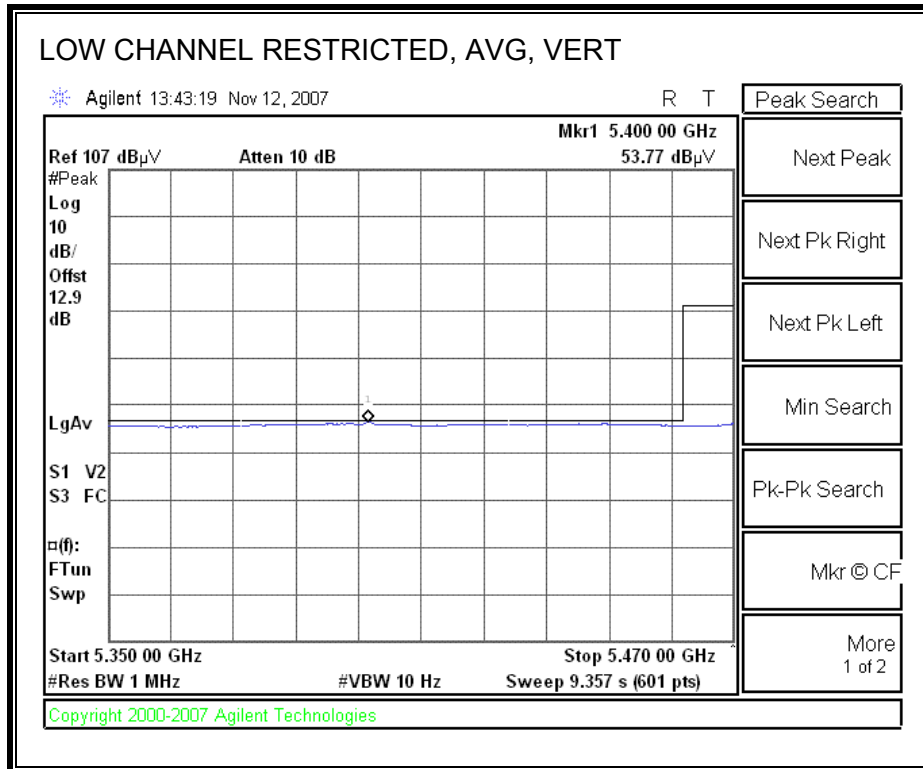




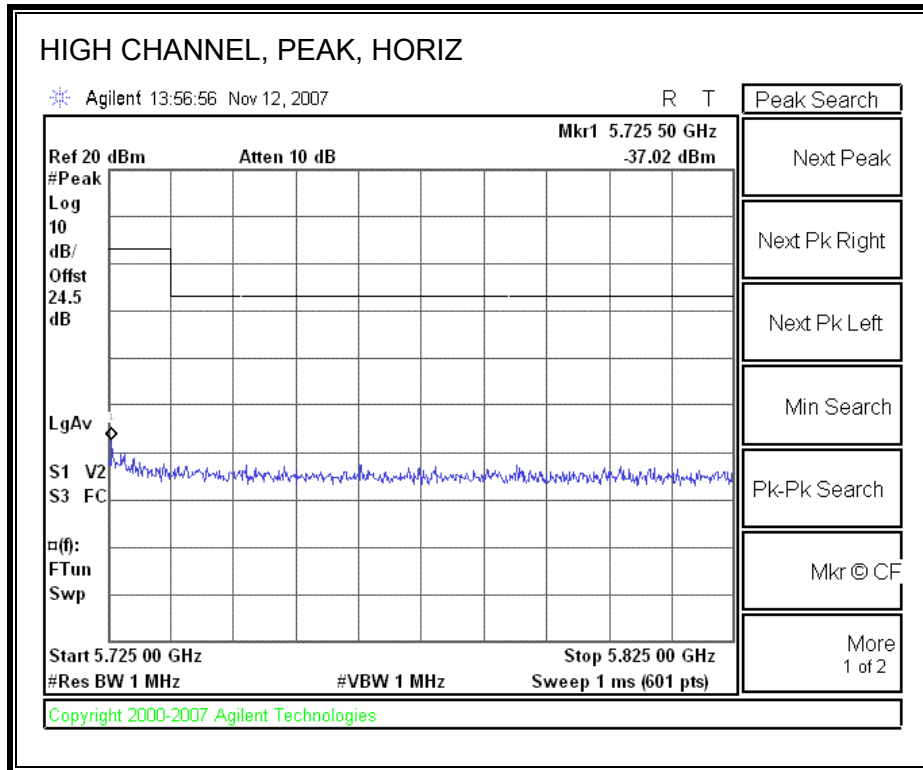


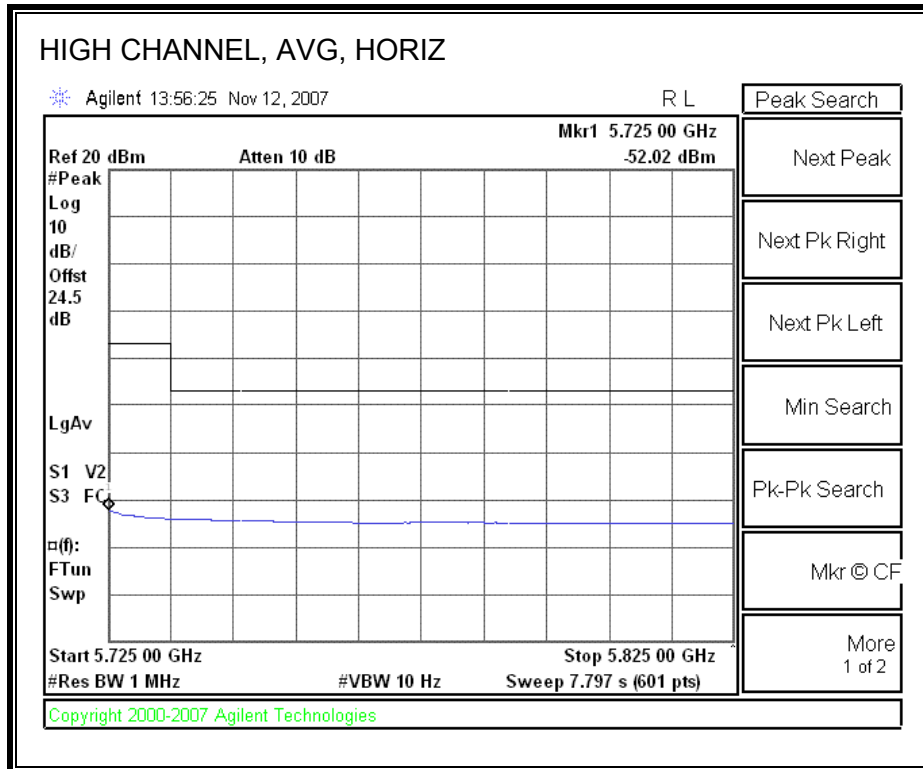
**RESTRICTED BANDEGE (LOW CHANNEL, VERTICAL)**



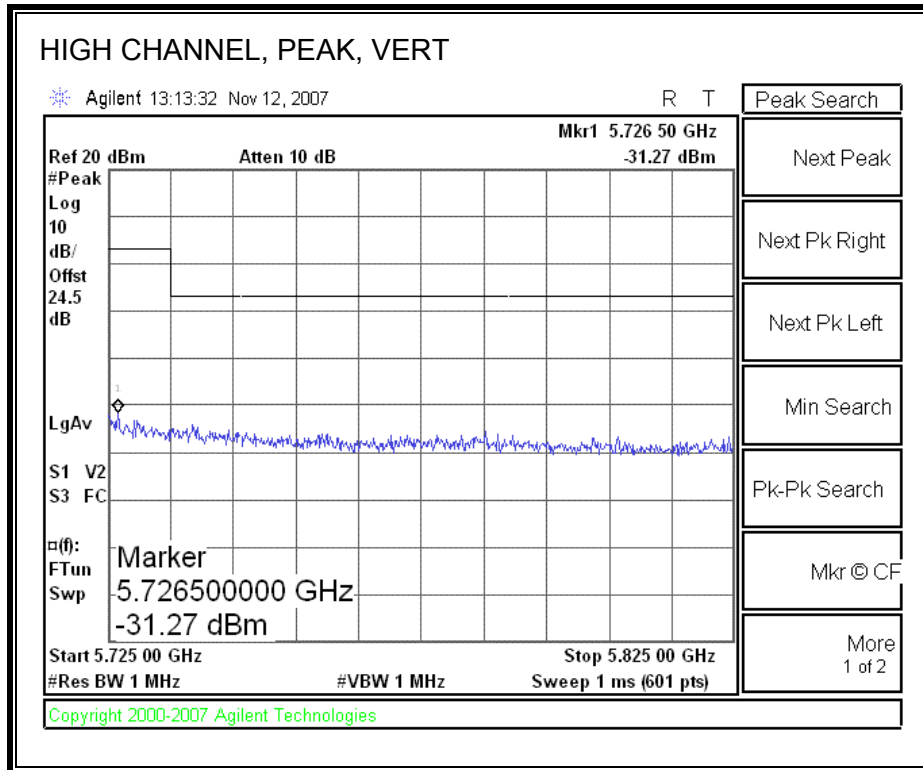


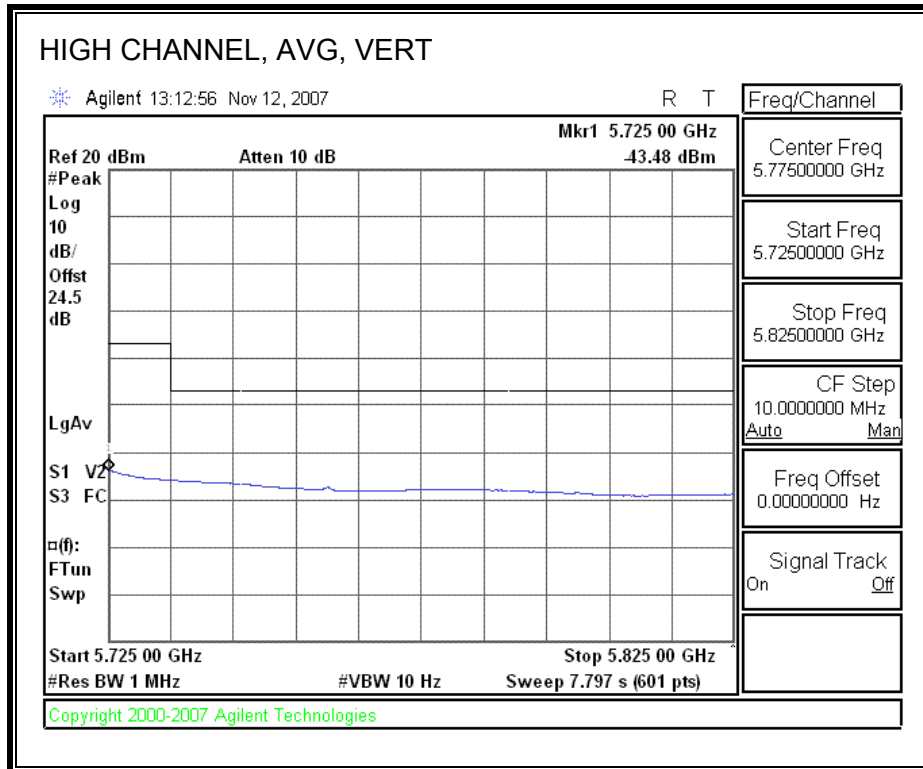
**AUTHORIZED BANDEDGE (HIGH CHANNEL, HORIZONTAL)**





**AUTHORIZED BANDEDGE (HIGH CHANNEL, VERTICAL)**





**HARMONICS AND SPURIOUS EMISSIONS**

**High Frequency Measurement**  
 Compliance Certification Services, Fremont 5m Chamber

Company: Proxim  
 Project #: 07U11459  
 Date: 11/12/2007  
 Test Engineer: Chin pang  
 Configuration: EUT/Panel antenna( with 2dB Pad )  
 Mode: 5.5GHz Band, Normal TX

**Test Equipment:**

Horn 1-18GHz	Pre-amplifier 1-26GHz	Pre-amplifier 26-40GHz	Horn > 18GHz	Limit
T60; S/N: 2238 @3m	T145 Agilent 3008A005	T88 Miteq 26-40GHz	T39; ARA 18-26GHz; S/N:1013	FCC 15.209

Hi Frequency Cables

2 foot cable	3 foot cable	12 foot cable	HPF	Reject Filter	Peak Measurements RBW=VBW=1MHz Average Measurements RBW=1MHz ; VBW=10Hz
		A-5m Chamber	HPF_7.6GHz		

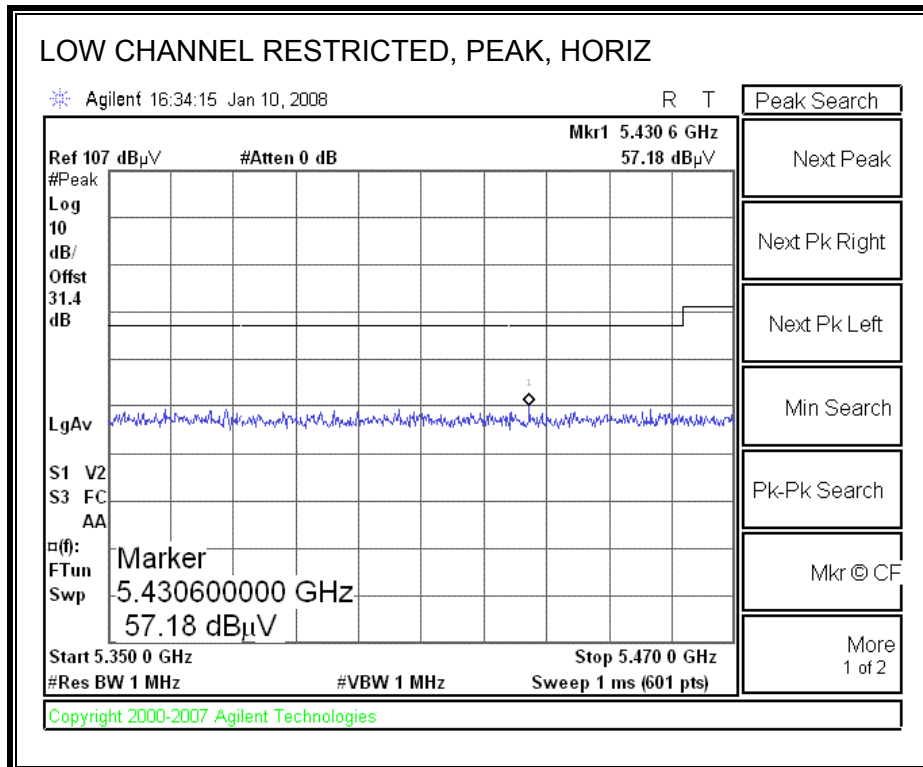
f GHz	Dist (m)	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Filtr dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)
<b>Low Ch, 5500MHz</b>															
11.000	3.0	42.0	30.5	37.3	11.1	-33.8	0.0	0.7	57.4	45.9	74	54	-16.6	-8.1	Y
16.500	3.0	42.0	29.6	39.3	13.0	-32.1	0.0	0.7	62.9	50.5	74	54	-11.1	-3.5	Y
11.000	3.0	40.5	29.0	37.3	11.1	-33.8	0.0	0.7	55.9	44.4	74	54	-18.1	-9.6	H
16.500	3.0	41.6	29.3	39.3	13.0	-32.1	0.0	0.7	62.5	50.2	74	54	-11.5	-3.8	H
<b>Mid Ch, 5600MHz</b>															
11.200	3.0	42.6	31.0	37.3	11.3	-33.5	0.0	0.7	58.5	46.9	74	54	-15.5	-7.1	Y
16.800	3.0	40.8	29.4	40.2	13.1	-32.0	0.0	0.7	62.8	51.4	74	54	-11.2	-2.6	Y
11.200	3.0	40.5	29.0	37.3	11.3	-33.5	0.0	0.7	56.4	44.9	74	54	-17.6	-9.1	H
16.800	3.0	40.0	28.7	40.2	13.1	-32.0	0.0	0.7	62.0	50.7	74	54	-12.0	-3.3	H
<b>High Ch, 5700MHz</b>															
11.400	3.0	41.5	30.2	37.4	11.5	-33.2	0.0	0.7	57.9	46.6	74	54	-16.1	-7.4	Y
17.100	3.0	40.6	30.4	41.2	13.2	-32.0	0.0	0.7	63.7	53.5	74	54	-10.3	-0.5	Y
11.340	3.0	40.7	29.2	37.4	11.5	-33.3	0.0	0.7	56.9	45.4	74	54	-17.1	-8.6	H
17.010	3.0	40.3	29.0	40.9	13.2	-32.0	0.0	0.7	63.0	51.7	74	54	-11.0	-2.3	H

Rev. 4.12.7  
**Note: No other emissions were detected above the system noise floor.**

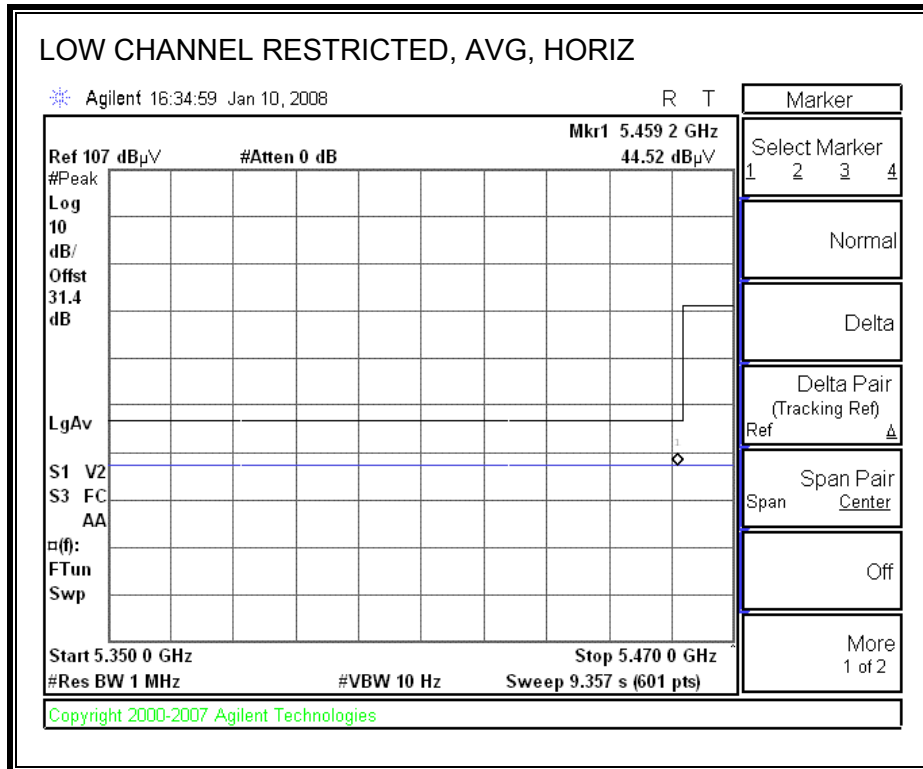
f	Measurement Frequency	Amp	Preamp Gain	Avg Lim	Average Field Strength Limit
Dist	Distance to Antenna	D Corr	Distance Correct to 3 meters	Pk Lim	Peak Field Strength Limit
Read	Analyzer Reading	Avg	Average Field Strength @ 3 m	Avg Mar	Margin vs. Average Limit
AF	Antenna Factor	Peak	Calculated Peak Field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

**O)MNI ANTENNA**

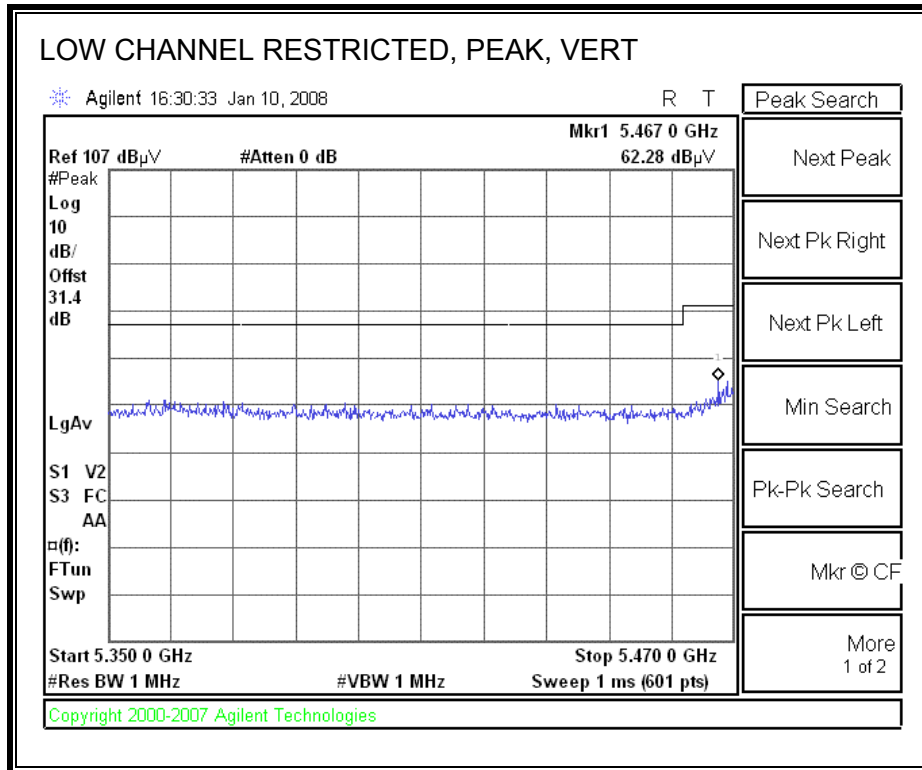
**RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)**

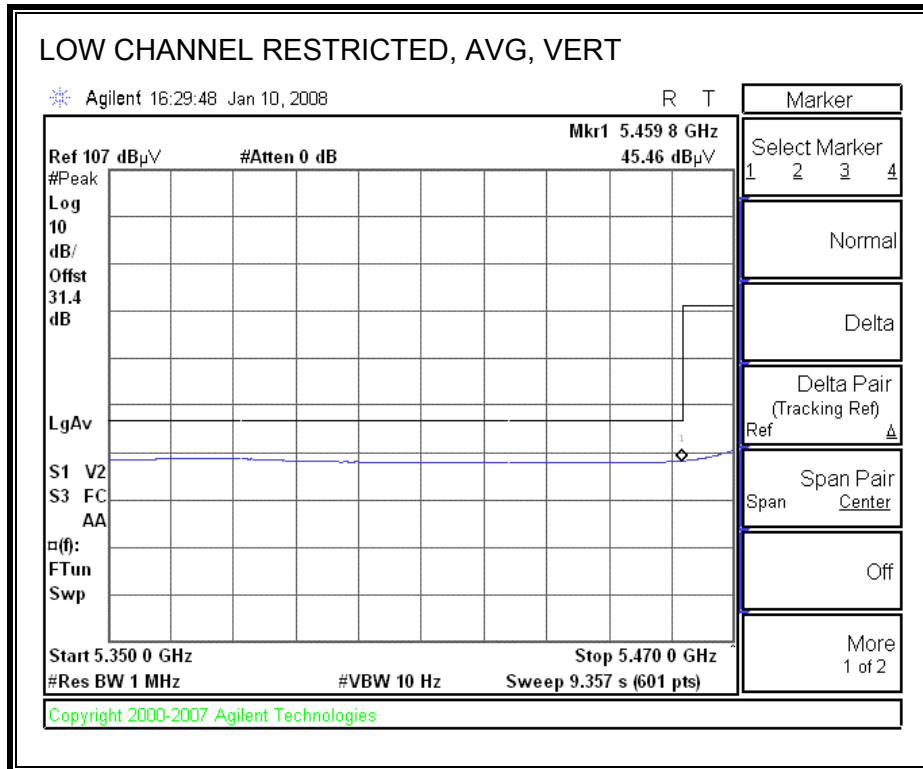




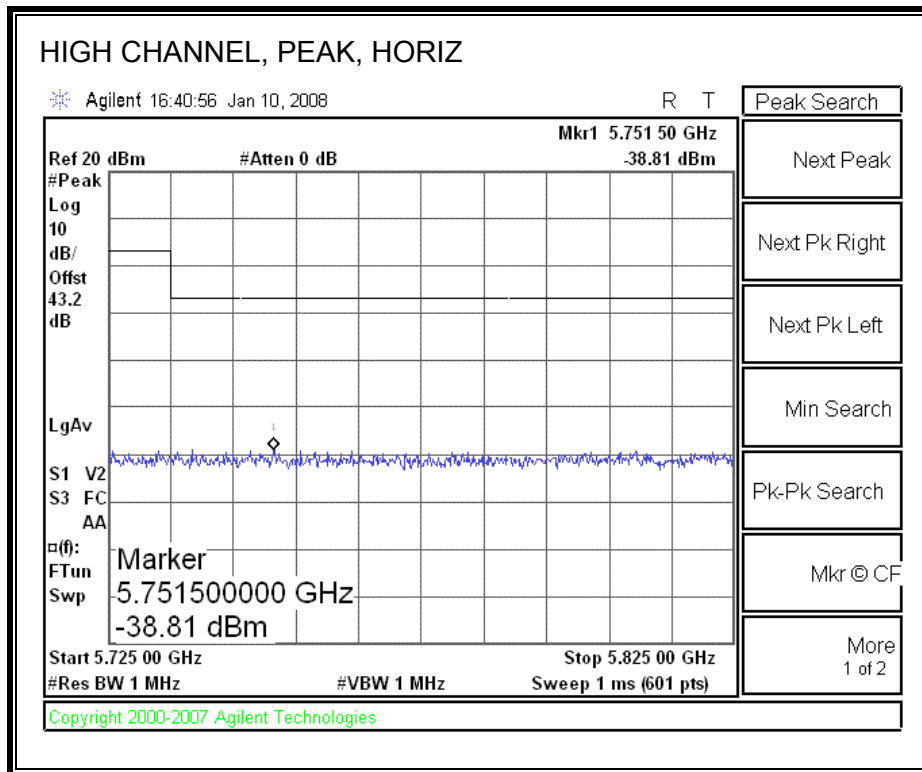


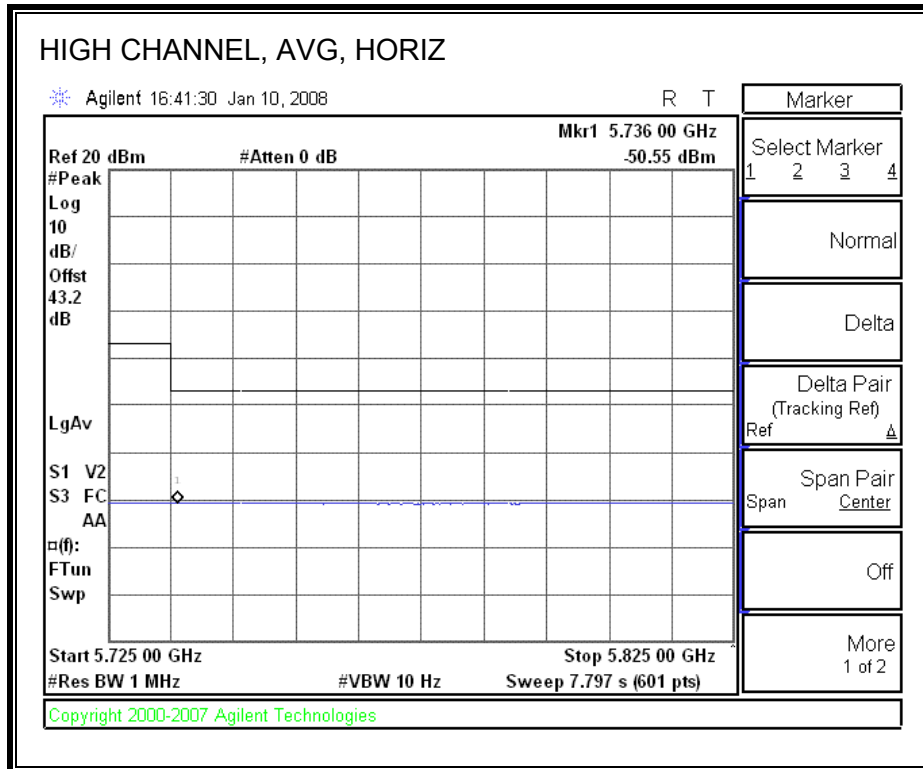
**RESTRICTED BANDEGE (LOW CHANNEL, VERTICAL)**



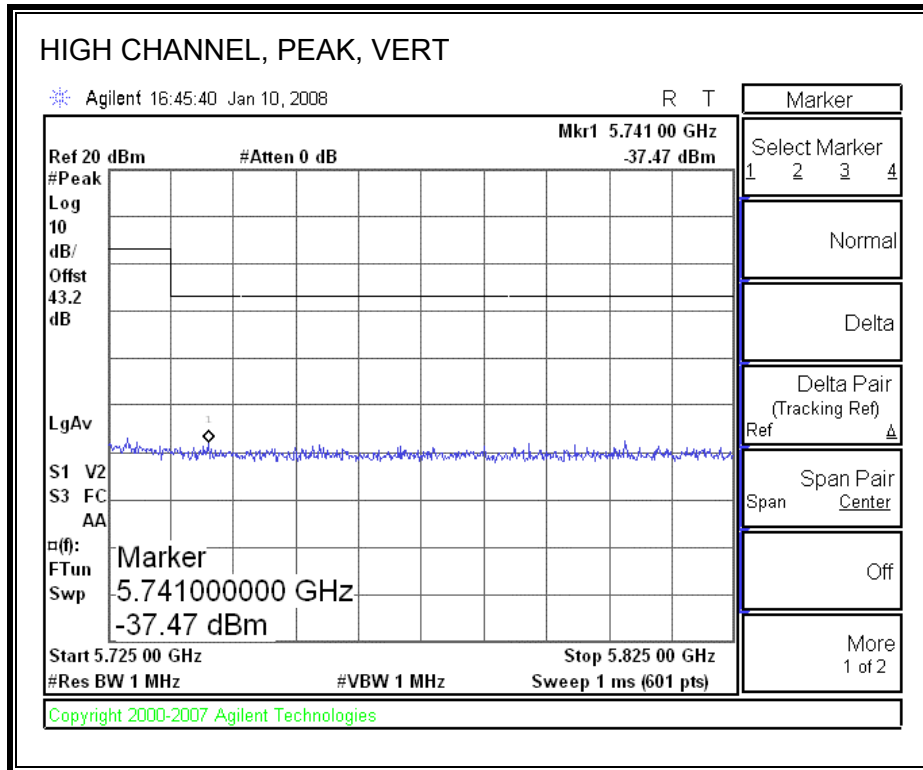


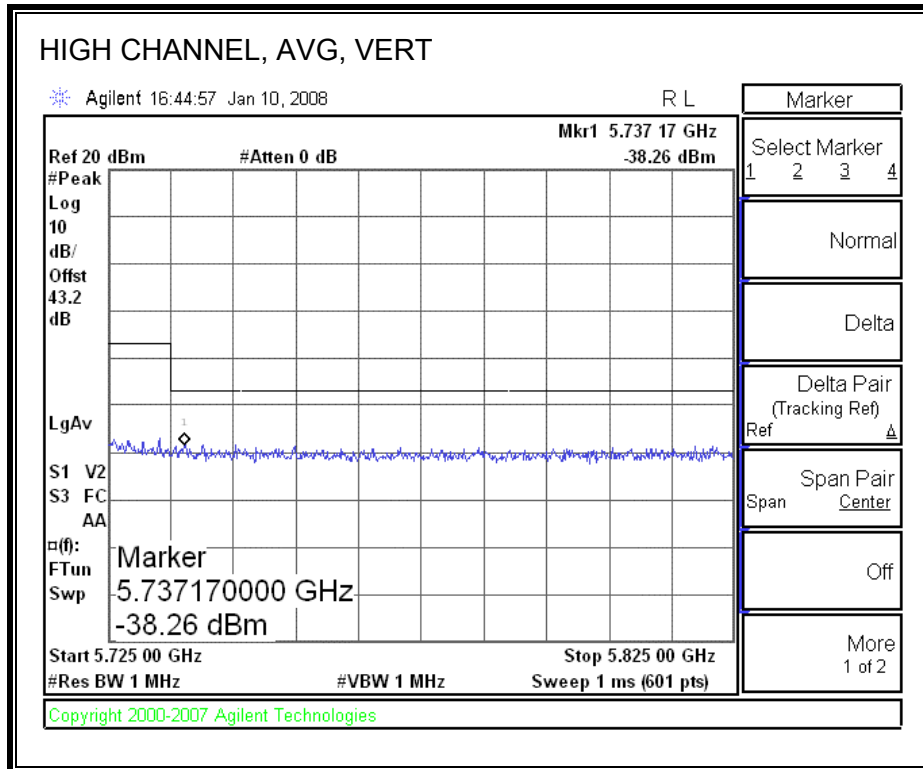
**AUTHORIZED BANDEDGE (HIGH CHANNEL, HORIZONTAL)**





**AUTHORIZED BANDEDGE (HIGH CHANNEL, VERTICAL)**





**HARMONICS AND SPURIOUS EMISSIONS**

**High Frequency Measurement**  
 Compliance Certification Services, Fremont 5m Chamber

Company: Proxim  
 Project #: 07U11459  
 Date: 12/03/2007  
 Test Engineer: Doug Anderson  
 Configuration: EUT / Omni antenna (13dBi Gain)  
 Mode: 5.5GHz Band, Normal TX

**Test Equipment:**

Horn 1-18GHz	Pre-amplifier 1-26GHz	Pre-amplifier 26-40GHz	Horn > 18GHz	Limit
T73; S/N: 6717 @3m	T144 Miteq 3008A00931	T88 Miteq 26-40GHz	T39; ARA 18-26GHz; S/N:1013	FCC 15.209

Hi Frequency Cables

2 foot cable	3 foot cable	12 foot cable	HPF	Reject Filter	Peak Measurements RBW=VBW=1MHz
		A-5m Chamber	HPF_7.6GHz		Average Measurements RBW=1MHz ; VBW=10Hz

f GHz	Dist (m)	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Filtr dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)
<b>Low Ch, 5500MHz @ 23dBm Power</b>															
11.000	3.0	45.5	31.6	37.2	11.1	-36.3	0.0	0.7	58.4	44.4	74	54	-15.6	-9.6	V
16.500	3.0	43.3	29.4	38.9	13.0	-34.1	0.0	0.7	61.9	47.9	74	54	-12.1	-6.1	V
11.000	3.0	45.9	31.6	37.2	11.1	-36.3	0.0	0.7	58.7	44.4	74	54	-15.3	-9.6	H
16.500	3.0	39.9	28.1	38.9	13.0	-34.1	0.0	0.7	58.5	46.6	74	54	-15.5	-7.4	H
<b>Mid Ch, 5600MHz @ 23dBm Power</b>															
11.200	3.0	47.1	33.3	37.3	11.3	-36.1	0.0	0.7	60.4	46.5	74	54	-13.6	-7.5	V
16.800	3.0	40.5	26.3	40.1	13.1	-33.8	0.0	0.7	60.5	46.3	74	54	-13.5	-7.7	V
11.200	3.0	47.6	33.4	37.3	11.3	-36.1	0.0	0.7	60.8	46.7	74	54	-13.2	-7.3	H
16.800	3.0	40.6	26.7	40.1	13.1	-33.8	0.0	0.7	60.7	46.8	74	54	-13.3	-7.2	H
<b>High Ch, 5700MHz @ 23dBm Power</b>															
11.400	3.0	46.7	32.7	37.4	11.5	-35.9	0.0	0.7	60.4	46.4	74	54	-13.6	-7.6	V
17.100	3.0	40.2	28.0	41.2	13.2	-33.7	0.0	0.7	61.6	49.4	74	54	-12.4	-4.6	V
11.400	3.0	45.6	31.2	37.4	11.5	-35.9	0.0	0.7	59.3	44.9	74	54	-14.7	-9.1	H
17.100	3.0	39.7	27.5	41.2	13.2	-33.7	0.0	0.7	61.1	48.9	74	54	-12.9	-5.1	H

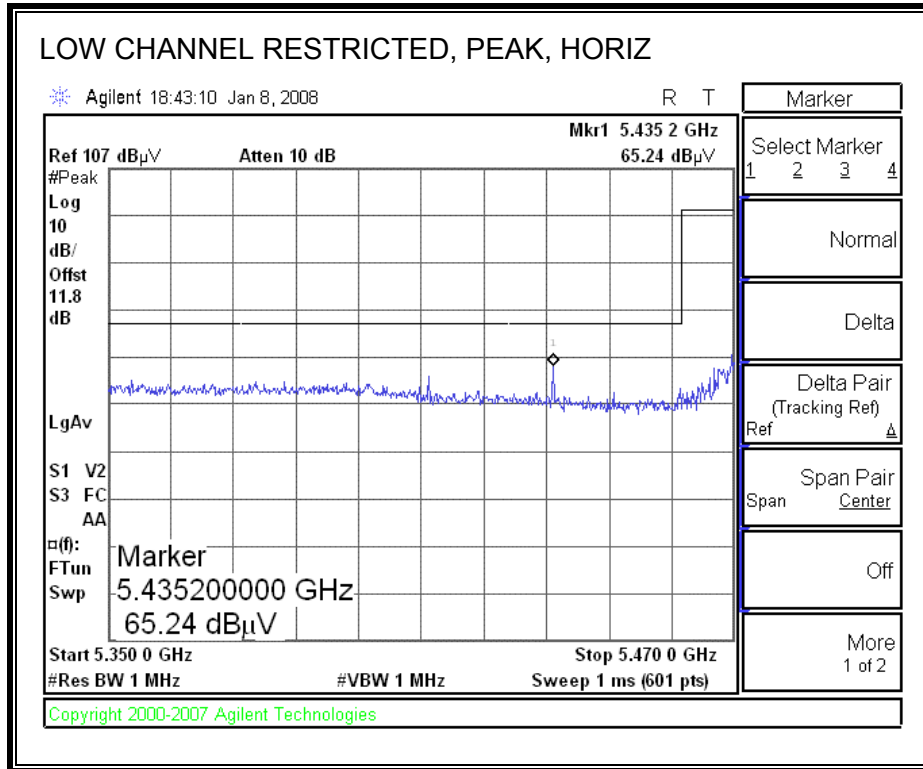
Rev. 4127  
**Note: No other emissions were detected above the system noise floor.**

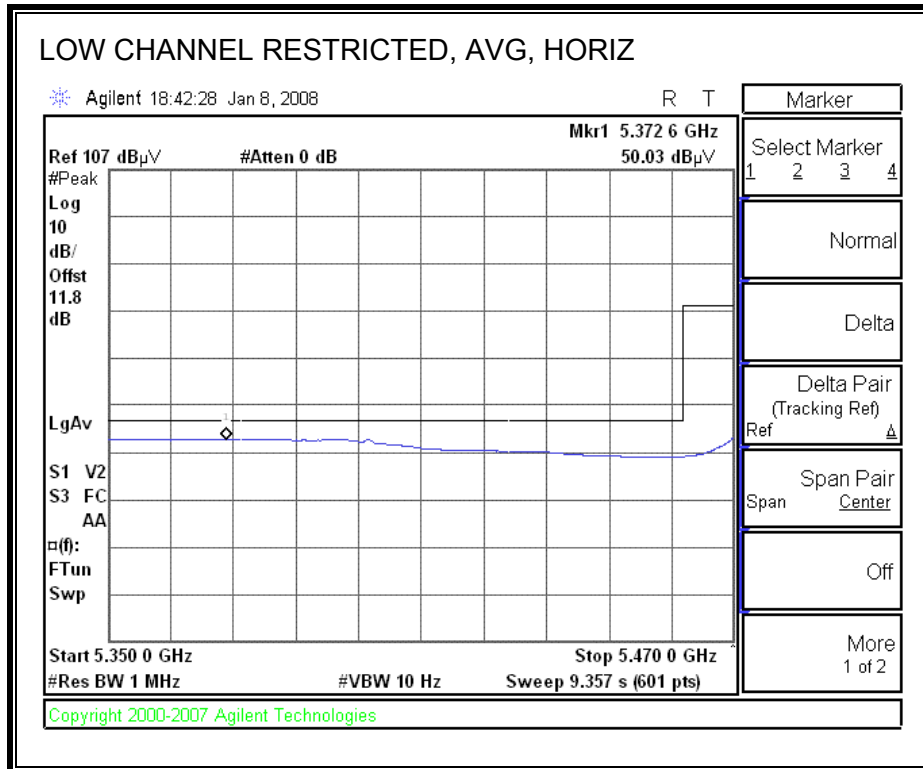
f	Measurement Frequency	Amp	Preamp Gain	Avg Lim	Average Field Strength Limit
Dist	Distance to Antenna	D Corr	Distance Correct to 3 meters	Pk Lim	Peak Field Strength Limit
Read	Analyzer Reading	Avg	Average Field Strength @ 3 m	Avg Mar	Margin vs. Average Limit
AF	Antenna Factor	Peak	Calculated Peak Field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



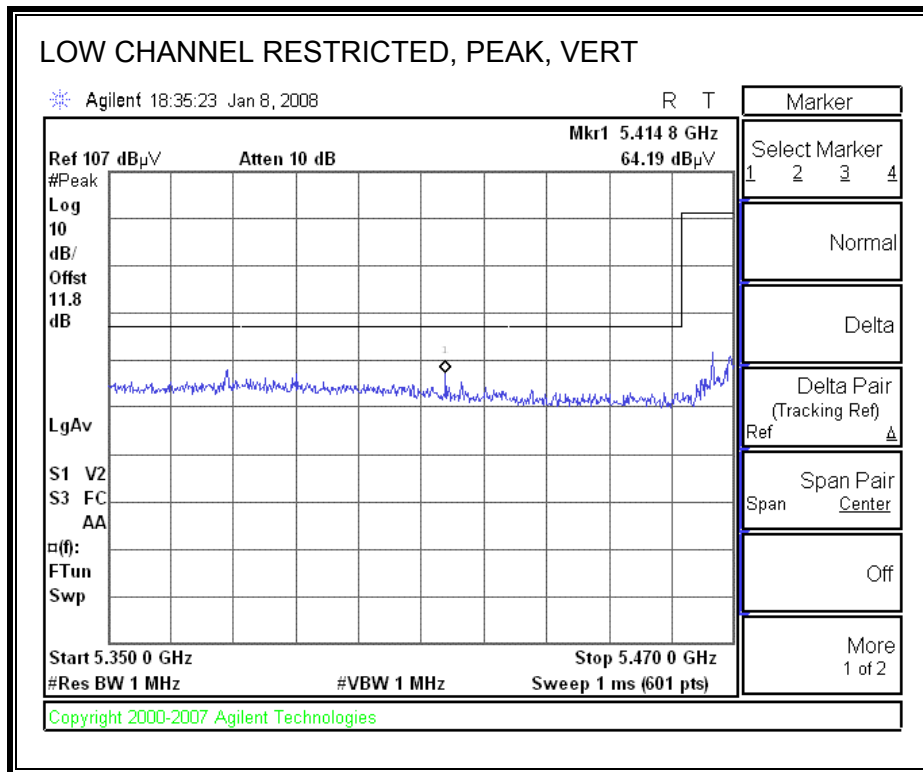
**PARABOLIC ANTENNA**

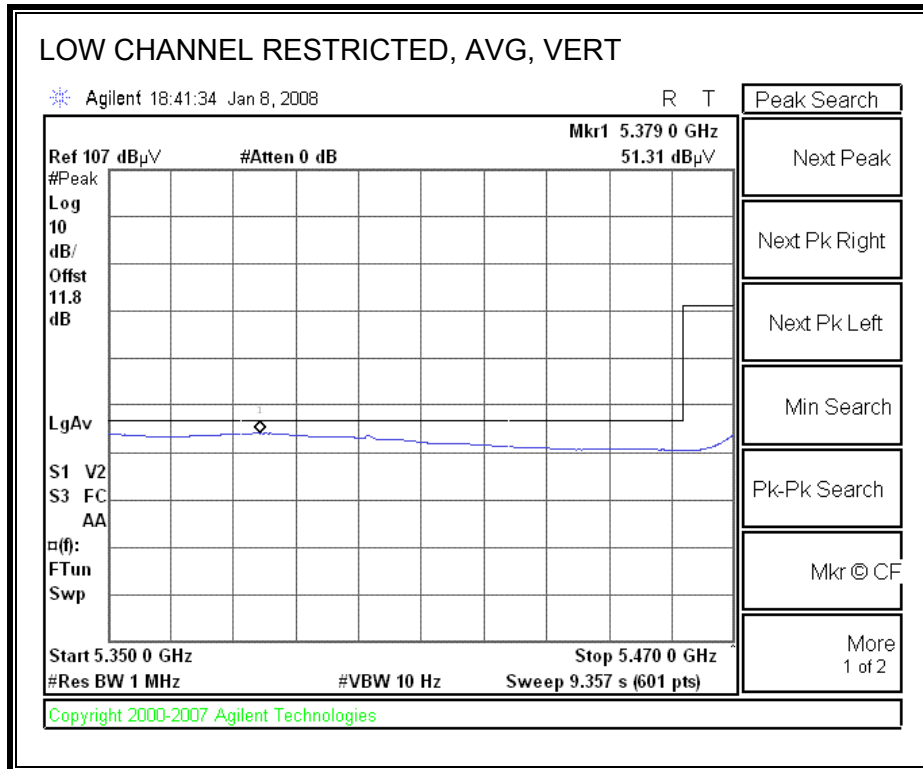
**RESTRICTED BANDEGE (LOW CHANNEL, HORIZONTAL)**



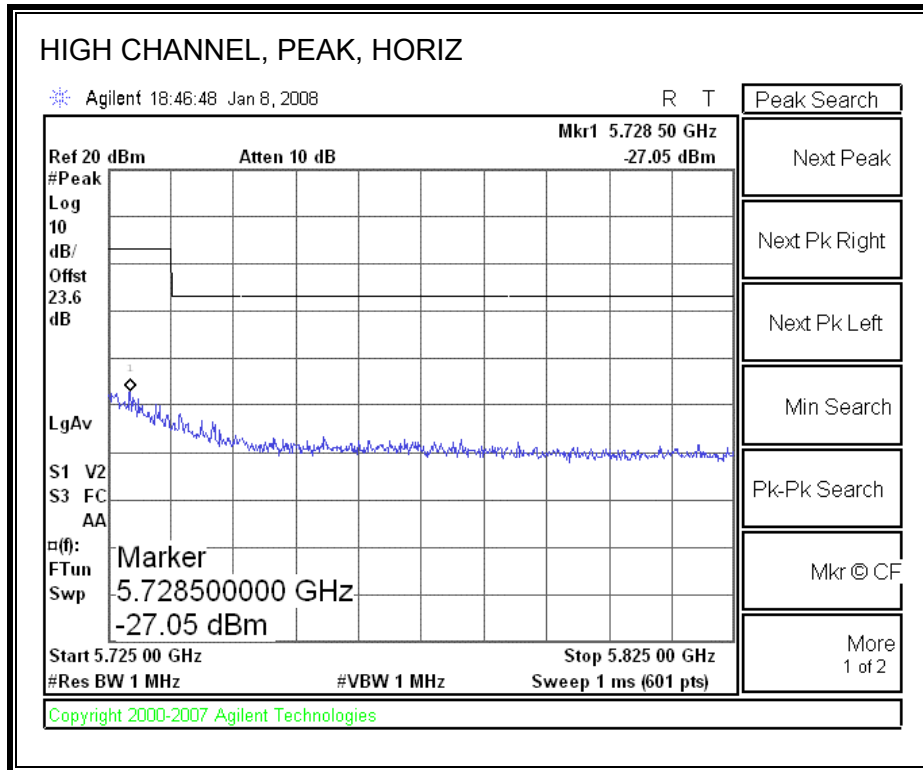


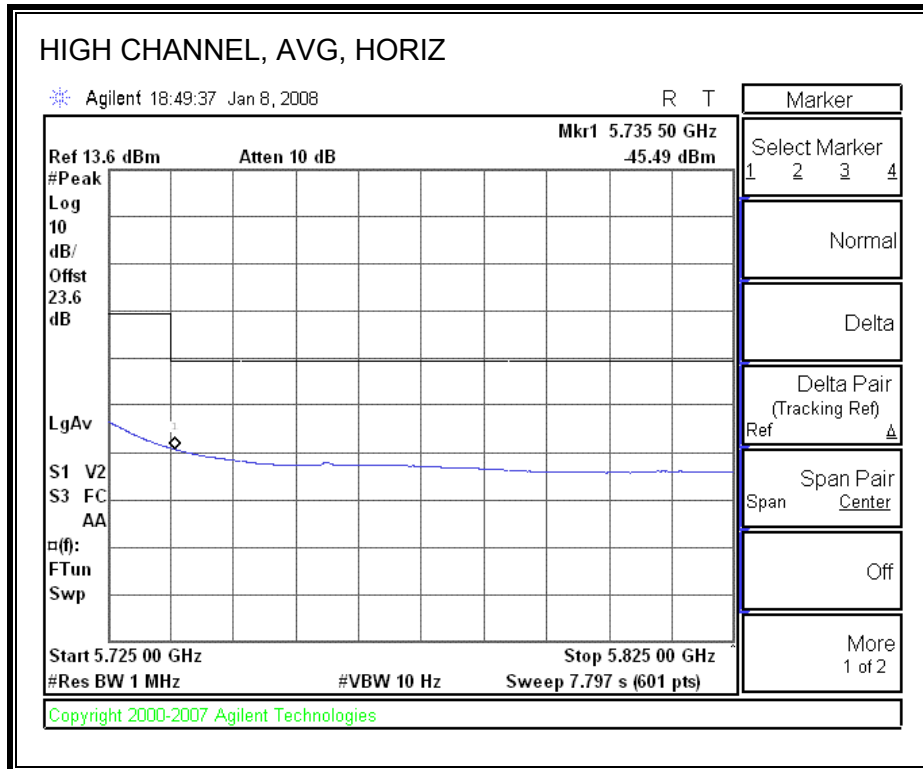
**RESTRICTED BANDEGE (LOW CHANNEL, VERTICAL)**



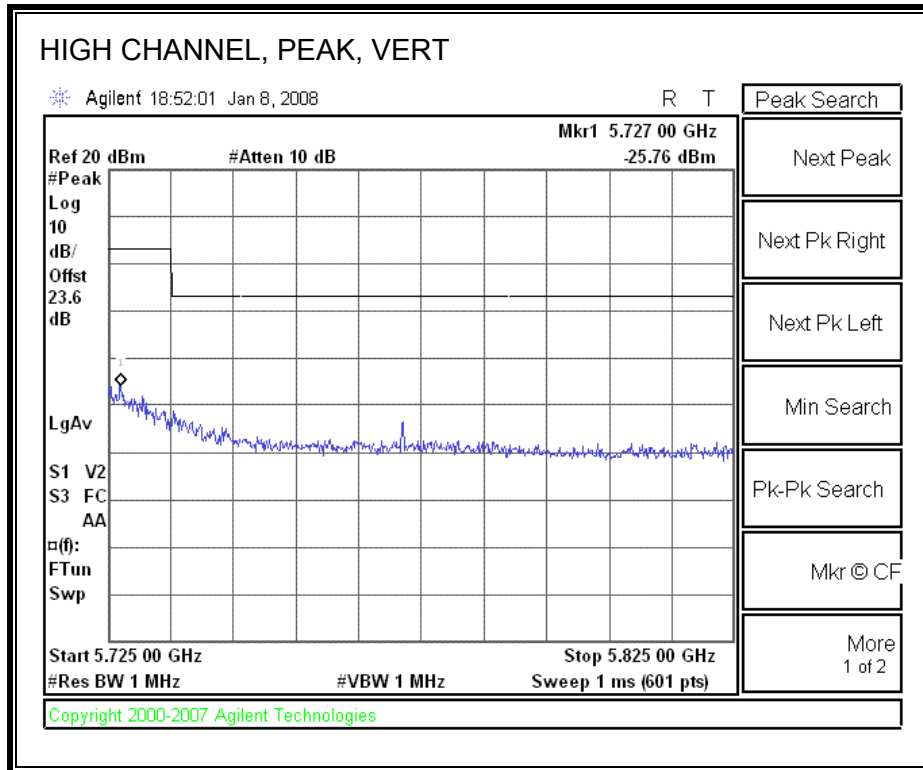


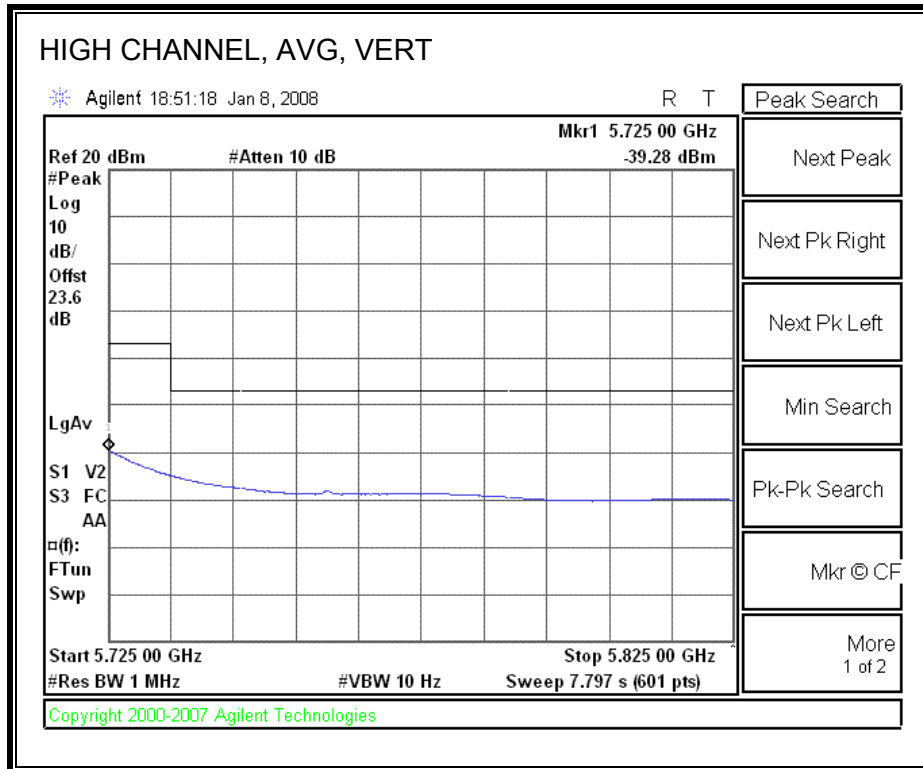
**AUTHORIZED BANDEDGE (HIGH CHANNEL, HORIZONTAL)**





**AUTHORIZED BANDEDGE (HIGH CHANNEL, VERTICAL)**







**HARMONICS AND SPURIOUS EMISSIONS**

**High Frequency Measurement**  
 Compliance Certification Services, Fremont 5m Chamber

Company: Proxim  
 Project #: 07U11459  
 Date: 1/08/2008  
 Test Engineer: Chin pang  
 Configuration: EUT/Parabolic Antenna  
 Mode: 5.5GHz Band, Normal TX

**Test Equipment:**

Horn 1-18GHz	Pre-amplifer 1-26GHz	Pre-amplifer 26-40GHz	Horn > 18GHz	Limit
T60; S/N: 2238 @3m	T145 Agilent 3008A005C	T88 Miteq 26-40GHz	T39; ARA 18-26GHz; S/N:1013	FCC 15.205

Hi Frequency Cables

2 foot cable	3 foot cable	12 foot cable	HPF	Reject Filter	Peak Measurements RBW=VBW=1MHz
		A-5m Chamber	HPF_7.6GHz		Average Measurements RBW=1MHz; VBW=10Hz

f GHz	Dist (m)	Read Pk dBuV	Read Avg dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Fltr dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)
<b>Low Ch, 5500MHz</b>															
11.000	3.0	45.6	33.8	37.3	11.1	-33.8	0.0	0.7	61.0	49.2	74	54	-13.0	-4.8	Y
11.000	3.0	42.5	30.3	37.3	11.1	-33.8	0.0	0.7	57.9	45.7	74	54	-16.1	-8.3	H
<b>Mid Ch, 5600MHz</b>															
11.200	3.0	44.7	32.3	37.3	11.3	-33.5	0.0	0.7	60.6	48.2	74	54	-13.4	-5.8	Y
11.200	3.0	42.1	30.0	37.3	11.3	-33.5	0.0	0.7	58.0	45.9	74	54	-16.0	-8.1	H
<b>High Ch, 5700MHz</b>															
11.400	3.0	46.2	34.0	37.4	11.5	-33.2	0.0	0.7	62.6	50.4	74	54	-11.4	-3.6	V
11.340	3.0	43.1	31.5	37.4	11.5	-33.3	0.0	0.7	59.3	47.7	74	54	-14.7	-6.3	H

Rev. 412.7  
**Note: 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
CL	Cable Loss	HPF	High Pass Filter		

### 7.1.4. TRANSMITTER ABOVE 1 GHz FOR 802.11a MODE IN THE 5.8 GHz BAND (WORST CASE, HIGHEST POWER AND HIGHEST ANTENNA GAIN)

#### OMNI ANTENNA

#### HARMONICS AND SPURIOUS EMISSIONS

**High Frequency Measurement**  
 Compliance Certification Services, Fremont 5m Chamber

Company: Proxim  
 Project #: 07U11459  
 Date: 12/19/2007  
 Test Engineer: Devin Chang  
 Configuration: EUT / Omni antenna (13dBi Gain)  
 Mode: 5.8GHz Band, Normal TX

**Test Equipment:**

Horn 1-18GHz	Pre-amplifer 1-26GHz	Pre-amplifer 26-40GHz	Horn > 18GHz	Limit
T73; S/N: 6717 @3m	T144 Miteq 3008A00931	T88 Miteq 26-40GHz	T39; ARA 18-26GHz; S/N:1013	FCC 15.205

Hi Frequency Cables

2 foot cable	3 foot cable	12 foot cable	HPF	Reject Filter	Peak Measurements RBW=VBW=1MHz
		A-5m Chamber	HPF_7.6GHz		Average Measurements RBW=1MHz; VBW=10Hz

f GHz	Dist (m)	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Fltr dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)
<b>Low Ch, 5745MHz</b>															
11.492	3.0	39.5	27.8	37.5	11.6	-35.9	0.0	0.7	53.5	41.7	74	54	-20.5	-12.3	V
11.492	3.0	38.9	25.3	37.5	11.6	-35.9	0.0	0.7	52.8	39.2	74	54	-21.2	-14.8	H
<b>Mid Ch, 5785MHz</b>															
11.570	3.0	40.8	28.7	37.5	11.7	-35.8	0.0	0.7	54.9	42.8	74	54	-19.1	-11.2	V
11.570	3.0	37.5	25.4	37.5	11.7	-35.8	0.0	0.7	51.6	39.5	74	54	-22.4	-14.5	H
<b>High Ch, 5825MHz</b>															
11.644	3.0	39.5	27.3	37.5	11.8	-35.7	0.0	0.7	53.8	41.6	74	54	-20.2	-12.4	V
11.650	3.0	38.3	25.9	37.5	11.8	-35.7	0.0	0.7	52.6	40.1	74	54	-21.4	-13.9	H

Rev. 4.12.7  
**Note: 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
CL	Cable Loss	HPF	High Pass Filter		

**PARABOLIC ANTENNA**

**HARMONICS AND SPURIOUS EMISSIONS**

**High Frequency Measurement**  
 Compliance Certification Services, Fremont 5m Chamber

Company: Proxim  
 Project #: 07U11459  
 Date: 12.10.2007  
 Test Engineer: Yobi Zhou  
 Configuration: Parabolic 33.4dBi Antenna  
 Mode: Continuous Transmit

**Test Equipment:**

Horn 1-18GHz	Pre-amplifier 1-26GHz	Pre-amplifier 26-40GHz	Horn > 18GHz	Limit
T60; S/N: 2238 @3m	T145 Agilent 3008A0050	T88 Miteq 26-40GHz	T125; ARA 18-26GHz; S/N:1007	FCC 15.205

Hi Frequency Cables

2 foot cable	3 foot cable	12 foot cable	HPF	Reject Filter	<u>Peak Measurements</u> RBW=VBW=1MHz <u>Average Measurements</u> RBW=1MHz ; VBW=10Hz
		B-5m Chamber	HPF_7.6GHz		

f GHz	Dist (m)	Read Pk dBuV	Read Avg dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Filt dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)
<b>Low Ch, 5745MHz</b>															
11.492	3.0	45.0	32.4	37.4	11.8	-33.1	0.0	0.7	61.8	49.2	74	54	-12.2	-4.8	V
11.492	3.0	42.4	30.5	37.4	11.8	-33.1	0.0	0.7	59.2	47.3	74	54	-14.8	-6.7	H
<b>Mid Ch, 5785MHz</b>															
11.570	3.0	46.2	33.0	37.4	11.9	-33.0	0.0	0.7	63.2	50.0	74	54	-10.8	-4.0	V
11.570	3.0	43.7	31.6	37.4	11.9	-33.0	0.0	0.7	60.7	48.6	74	54	-13.3	-5.4	H
<b>High Ch, 5825MHz</b>															
11.644	3.0	45.5	32.7	37.4	12.0	-32.9	0.0	0.7	62.7	49.9	74	54	-11.3	-4.1	V
11.650	3.0	43.2	31.3	37.4	12.0	-32.9	0.0	0.7	60.4	48.5	74	54	-13.6	-5.5	H

Rev. 412.7  
**Note: 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
CL	Cable Loss	HPF	High Pass Filter		

### 7.1.5. RECEIVER ABOVE 1 GHz FOR 20 MHz BANDWIDTH IN THE 5GHz BAND

#### OMNI ANTENNA

High Frequency Measurement																	
Compliance Certification Services, Fremont 5m Chamber																	
Company: Proxim																	
Project #: 07U11459																	
Date: 1-08-2008																	
Test Engineer: Chin Pang																	
Configuration: EUT/ Omni Antenna																	
Mode: RX, 5.2GHz Band ( Worst Case )																	
<b>Test Equipment:</b>																	
Horn 1-18GHz				Pre-amplifier 1-26GHz				Pre-amplifier 26-40GHz				Horn > 18GHz				Limit	
T120: S/N: 29310 @3m				T145 Agilent 3008A005t												FCC 15.209	
Hi Frequency Cables																	
2 foot cable				3 foot cable				12 foot cable				HPF		Reject Filter		Peak Measurements	
								B-5m Chamber								RBW=VBW=1MHz	
Average Measurements																	
RBW=1MHz, VBW=10Hz																	
f	Dist	Read Pk	Read Avg.	AF	CL	Amp	D Corr	Ftr	Peak	Avg	Pk Lim	Avg Lim	Pk Mar	Avg Mar	Notes		
GHz	(m)	dBuV	dBuV	dB/m	dB	dB	dB	dB	dBuV/m	dBuV/m	dBuV/m	dBuV/m	dB	dB	(V/H)		
<b>Mid Ch, 5260MHz</b>																	
1.195	3.0	63.6	43.5	28.6	3.5	-36.0	0.0	0.0	59.7	39.6	74	54	-14.3	-14.4	V		
1.592	3.0	55.6	38.2	30.1	4.0	-35.7	0.0	0.0	54.0	36.6	74	54	-20.0	-17.4	V		
1.200	3.0	57.5	38.8	28.6	3.5	-36.0	0.0	0.0	53.6	34.9	74	54	-20.4	-19.1	H		
1.600	3.0	53.0	35.4	30.1	4.0	-35.7	0.0	0.0	51.4	33.8	74	54	-22.6	-20.2	H		
Rev. 4.12.7																	
Note: 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				
CL	Cable Loss					HPF	High Pass Filter										

**SECTOR ANTENNA**

**High Frequency Measurement**

Compliance Certification Services, Fremont 5m Chamber

Company: Proxim  
 Project #: 07U11448  
 Date: 11-17-2007  
 Test Engineer: Chin Pang  
 Configuration: EUT/ Sector Antenna  
 Mode: RX, 5.2GHz Band ( Worst Case )

**Test Equipment:**

Horn 1-18GHz	Pre-amplifier 1-26GHz	Pre-amplifier 26-40GHz	Horn > 18GHz	Limit
T119; S/N: 29301 @3m	T34 HP 8449B			FCC 15.209

Hi Frequency Cables

2 foot cable	3 foot cable	12 foot cable	HPF	Reject Filter	<b>Peak Measurements</b> RBW=VBW=1MHz <b>Average Measurements</b> RBW=1MHz ; VBW=10Hz
	Chin 197538001	C-5m Chamber			

f GHz	Dist (m)	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Filtr dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)
<b>Mid Ch 5260MHz</b>															
1.090	3.0	60.8	42.3	28.0	0.4	-38.1	0.0	0.0	51.0	32.5	74	54	-23.0	-21.5	V
1.340	3.0	65.0	45.2	29.0	0.4	-37.8	0.0	0.0	56.6	36.8	74	54	-17.4	-17.2	V
1.090	3.0	58.0	38.6	28.0	0.4	-38.1	0.0	0.0	48.2	28.8	74	54	-25.8	-25.2	H
1.455	3.0	57.5	38.0	29.4	0.4	-37.6	0.0	0.0	49.7	30.2	74	54	-24.3	-23.8	H

Rev. 4127  
**Note: 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
CL	Cable Loss	HPF	High Pass Filter		

**PANEL ANTENNA**

**High Frequency Measurement**  
 Compliance Certification Services, Fremont 5m Chamber

Company: Proxim  
 Project #: 07U11448  
 Date: 11-17-2007  
 Test Engineer: Chin Pang  
 Configuration: EUT/ Panel Antenna  
 Mode: RX, 5.2GHz Band ( Worst Case )

**Test Equipment:**

Horn 1-18GHz	Pre-amplifier 1-26GHz	Pre-amplifier 26-40GHz	Horn > 18GHz	Limit
T119; S/N: 29301 @3m	T34 HP 8449B			FCC 15.209

Hi Frequency Cables

2 foot cable	3 foot cable	12 foot cable	HPF	Reject Filter	<b>Peak Measurements</b> RBW=VBW=1MHz <b>Average Measurements</b> RBW=1MHz ; VBW=10Hz
	Chin 197538001	C-5m Chamber			

f GHz	Dist (m)	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Filtr dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)
<b>Mid Ch 5260MHz</b>															
1.090	3.0	64.0	43.3	28.0	0.4	-38.1	0.0	0.0	54.2	33.5	74	54	-19.8	-20.5	V
1.460	3.0	58.6	40.1	29.5	0.4	-37.6	0.0	0.0	50.8	32.3	74	54	-23.2	-21.7	V
1.068	3.0	58.4	38.3	27.9	0.4	-38.2	0.0	0.0	48.5	28.4	74	54	-25.5	-25.6	H
1.725	3.0	57.2	37.7	30.5	0.4	-37.3	0.0	0.0	50.9	31.4	74	54	-23.1	-22.6	H

Rev. 4.127  
**Note: 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
CL	Cable Loss	HPF	High Pass Filter		

**PARBOLIC ANTENNA**

**High Frequency Measurement**  
 Compliance Certification Services, Fremont 5m Chamber

Company: Proxim  
 Project #: 07U11459  
 Date: 1-08-2008  
 Test Engineer: Chin Pang  
 Configuration: EUT/ Parabolic Antenna  
 Mode: RX, 5.2GHz Band ( Worst Case )

**Test Equipment:**

Horn 1-18GHz	Pre-amplifer 1-26GHz	Pre-amplifer 26-40GHz	Horn > 18GHz	Limit
T120; S/N: 29310 @3m	T145 Agilent 3008A005			FCC 15.209

Hi Frequency Cables

2 foot cable	3 foot cable	12 foot cable	HPF	Reject Filter	Peak Measurements RBW=VBW=1MHz Average Measurements RBW=1MHz ; VBW=10Hz
		B-5m Chamber			

f GHz	Dist (m)	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Fltr dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)
<b>Mid Ch, 5260MHz</b>															
1.065	3.0	65.6	45.5	28.1	3.3	-36.1	0.0	0.0	60.9	40.8	74	54	-13.1	-13.2	V
1.592	3.0	60.5	41.6	30.1	4.0	-35.7	0.0	0.0	58.9	40.0	74	54	-15.1	-14.0	V
1.066	3.0	62.0	43.7	28.1	3.3	-36.1	0.0	0.0	57.3	39.0	74	54	-16.7	-15.0	H
1.600	3.0	58.5	40.0	30.1	4.0	-35.7	0.0	0.0	56.9	38.4	74	54	-17.1	-15.6	H

Rev. 4127  
**Note: 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
CL	Cable Loss	HPF	High Pass Filter		

## 7.2. WORST-CASE BELOW 1 GHz

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

HORIZONTAL DATA							
	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	42.610	48.98	-17.56	31.42	40.00	-8.58	Peak
2	62.010	56.29	-23.04	33.25	40.00	-6.75	Peak
3	106.630	56.46	-19.33	37.13	43.50	-6.37	Peak
4	245.340	51.94	-18.03	33.91	46.00	-12.09	Peak
5	318.090	48.81	-15.36	33.45	46.00	-12.55	Peak
6	337.490	48.52	-14.83	33.69	46.00	-12.31	Peak

Page: 1



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

VERTICAL DATA

Page: 1

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	153.190	52.57	-18.77	33.80	43.50	-9.70	Peak
2	243.400	48.06	-19.66	28.40	46.00	-17.60	Peak
3	337.490	50.37	-16.77	33.60	46.00	-12.40	Peak
4	442.250	44.29	-14.64	29.65	46.00	-16.35	Peak
5	557.680	41.24	-13.07	28.17	46.00	-17.83	Peak
6	675.050	37.78	-11.75	26.03	46.00	-19.97	Peak

## 8. AC POWER LINE CONDUCTED EMISSIONS

### LIMITS

FCC §15.207 (a)

RSS-Gen 7.2.2

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 receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

Line conducted data is recorded for both NEUTRAL and HOT lines.

### RESULTS

**6 WORST EMISSIONS**

**POE POWER**

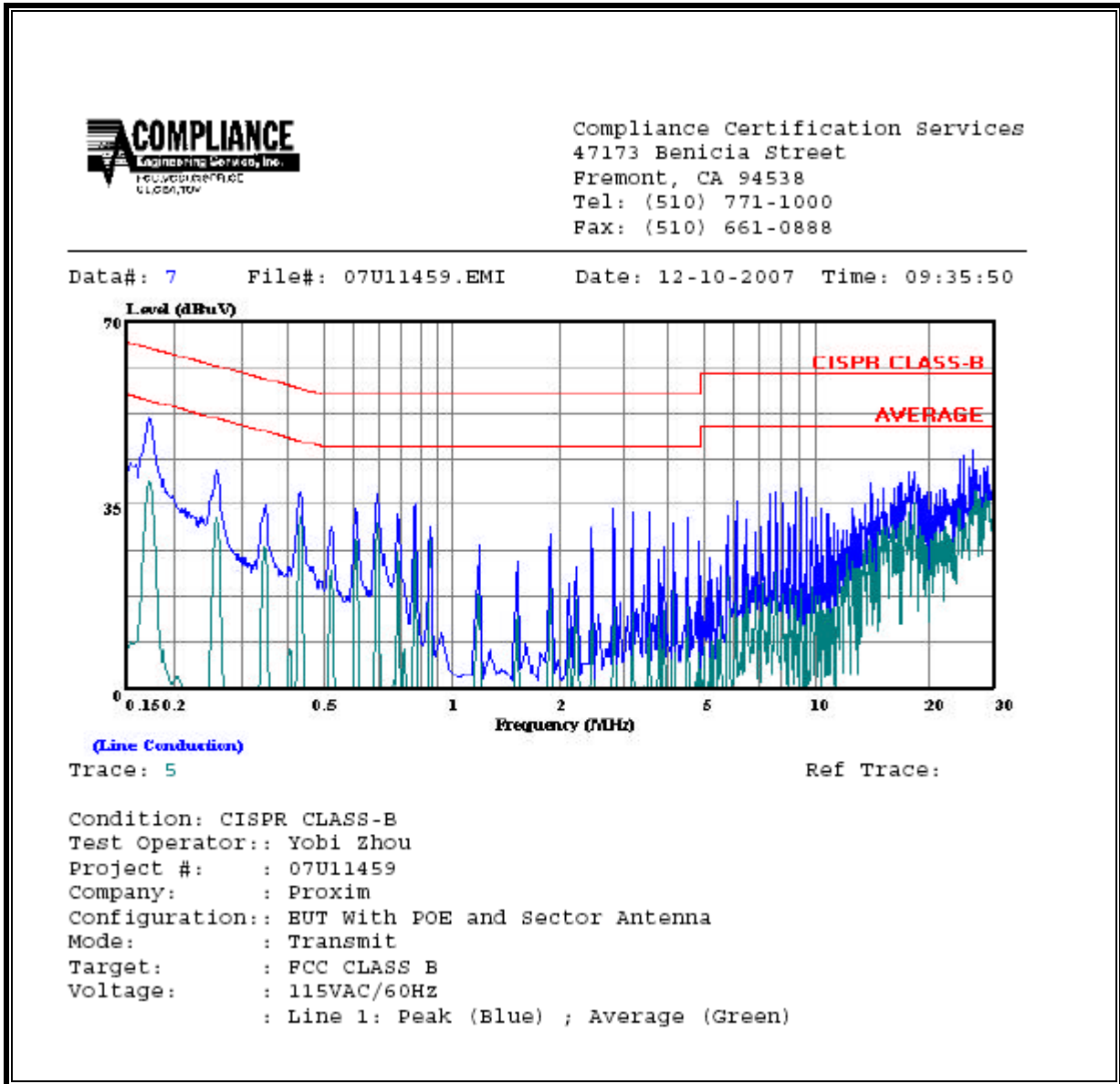
CONDUCTED EMISSIONS DATA (115VAC 60Hz)									
Freq.	Reading			Closs	Limit	FCC_B	Margin		Remark
(MHz)	PK (dBuV)	QP (dBuV)	AV (dBuV)	(dB)	QP	AV	QP (dB)	AV (dB)	L1 / L2
0.47	35.01	--	27.16	0.00	56.53	46.53	-21.52	-19.37	L1
2.75	34.17	--	29.20	0.00	56.00	46.00	-21.83	-16.80	L1
26.56	41.89	--	39.79	0.00	60.00	50.00	-18.11	-10.21	L1
0.47	35.25	--	30.21	0.00	56.53	46.53	-21.28	-16.32	L2
2.75	34.61	--	30.59	0.00	56.00	46.00	-21.39	-15.41	L2
26.56	43.73	--	42.10	0.00	60.00	50.00	-16.27	-7.90	L2
6 Worst Data									

**DIRECT POWER**

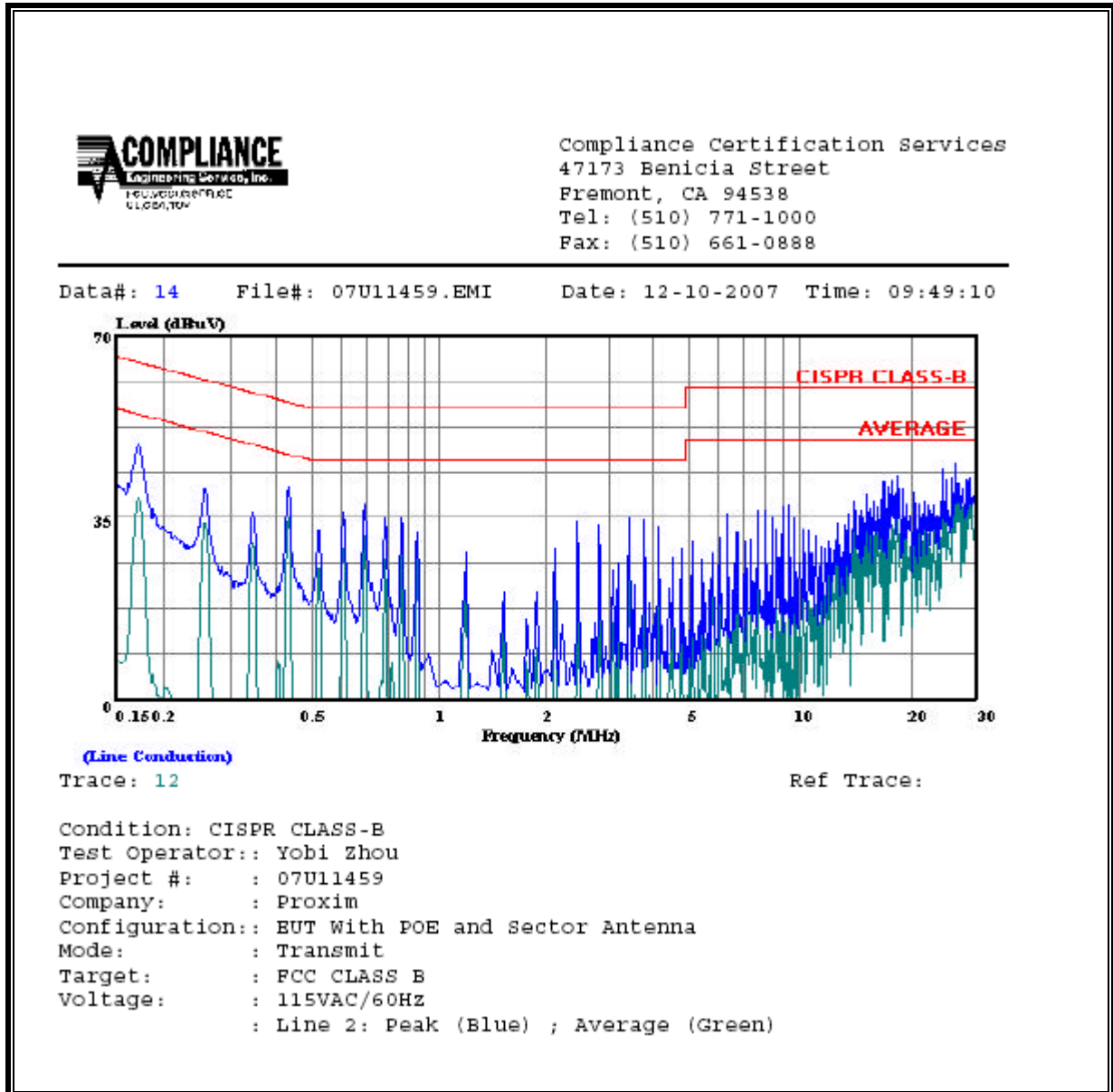
CONDUCTED EMISSIONS DATA (115VAC 60Hz)									
Freq.	Reading			Closs	Limit	EN_B	Margin		Remark
(MHz)	PK (dBuV)	QP (dBuV)	AV (dBuV)	(dB)	QP	AV	QP (dB)	AV (dB)	L1 / L2
0.22	54.46	--	44.27	0.00	63.01	53.01	-8.55	-8.74	L1
0.98	39.94	--	34.93	0.00	56.00	46.00	-16.06	-11.07	L1
18.33	50.78	--	47.48	0.00	60.00	50.00	-9.22	-2.52	L1
0.22	53.30	--	41.38	0.00	63.01	53.01	-9.71	-11.63	L2
0.98	40.30	--	38.37	0.00	56.00	46.00	-15.70	-7.63	L2
18.33	51.80	--	47.23	0.00	60.00	50.00	-8.20	-2.77	L2
6 Worst Data Direct Power									

**POE POWER**

**LINE 1 RESULTS**

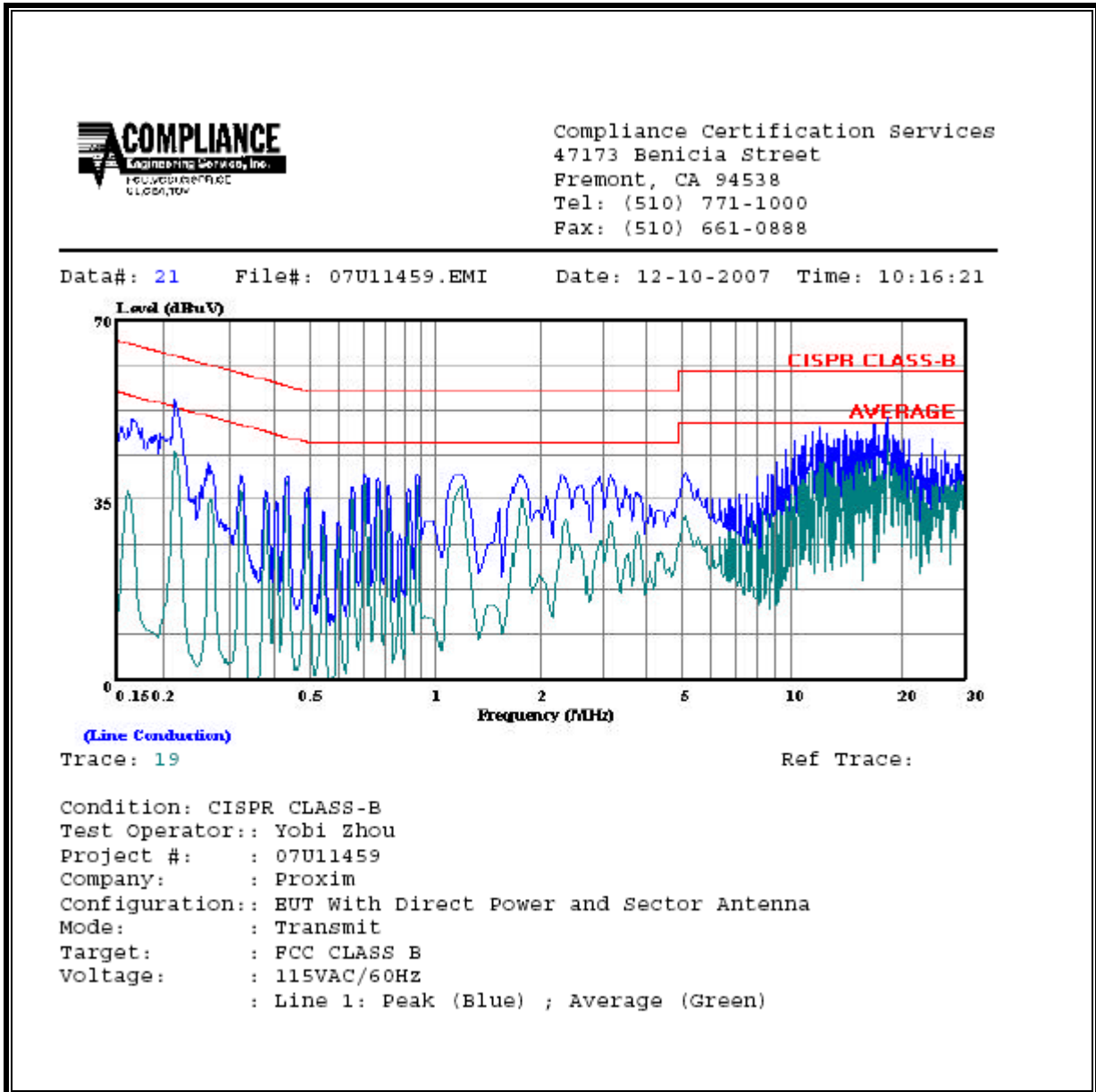


**LINE 2 RESULTS**

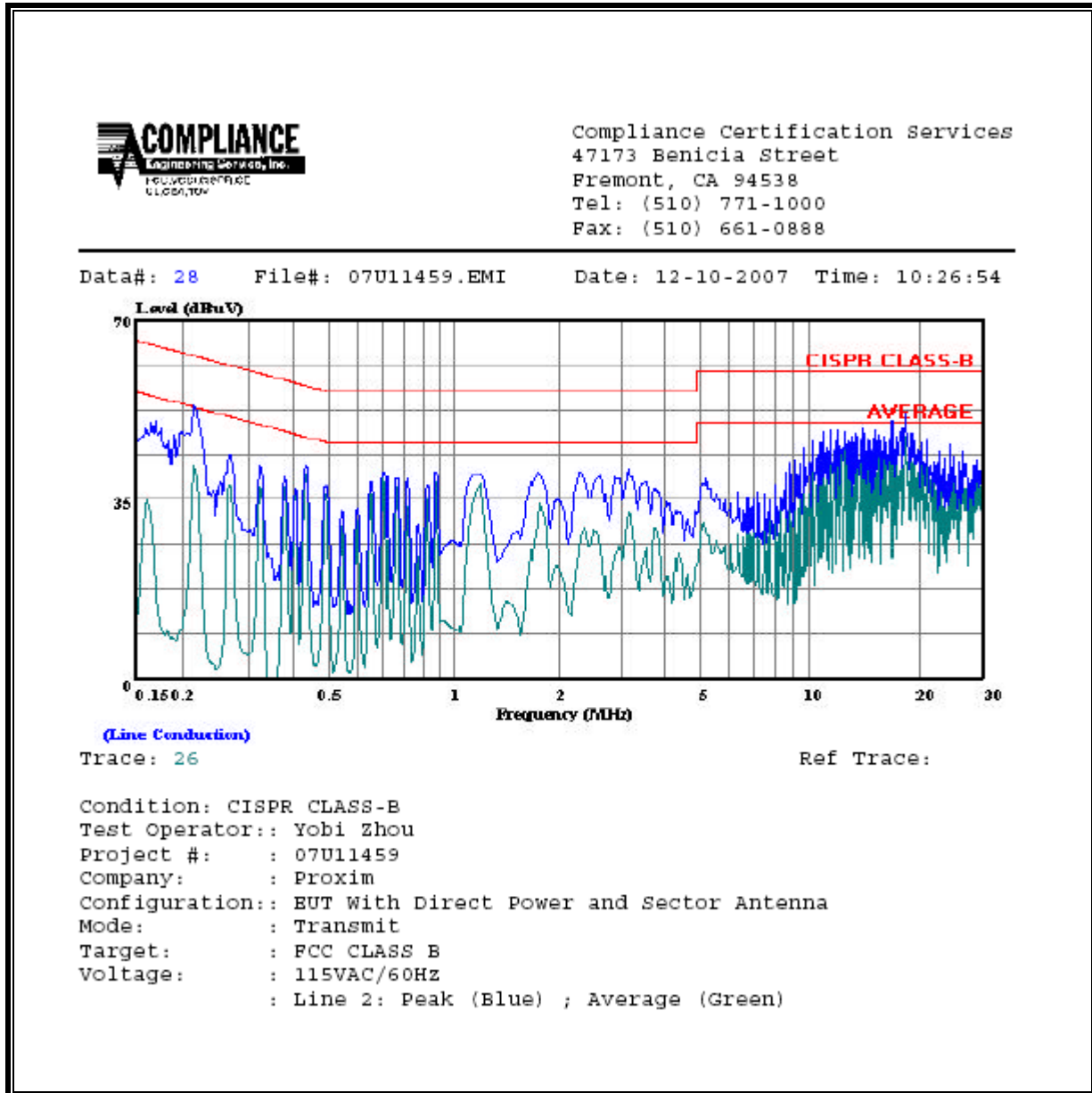


**DIRECT POWER**

**LINE 1 RESULTS**



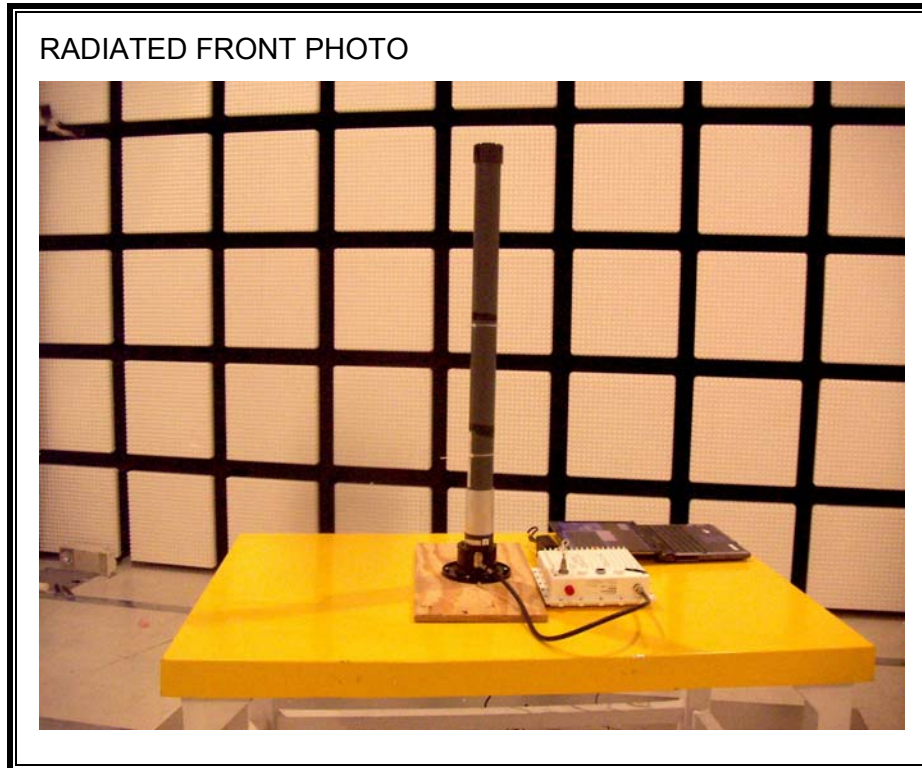
**LINE 2 RESULTS**



## 9. SETUP PHOTOS

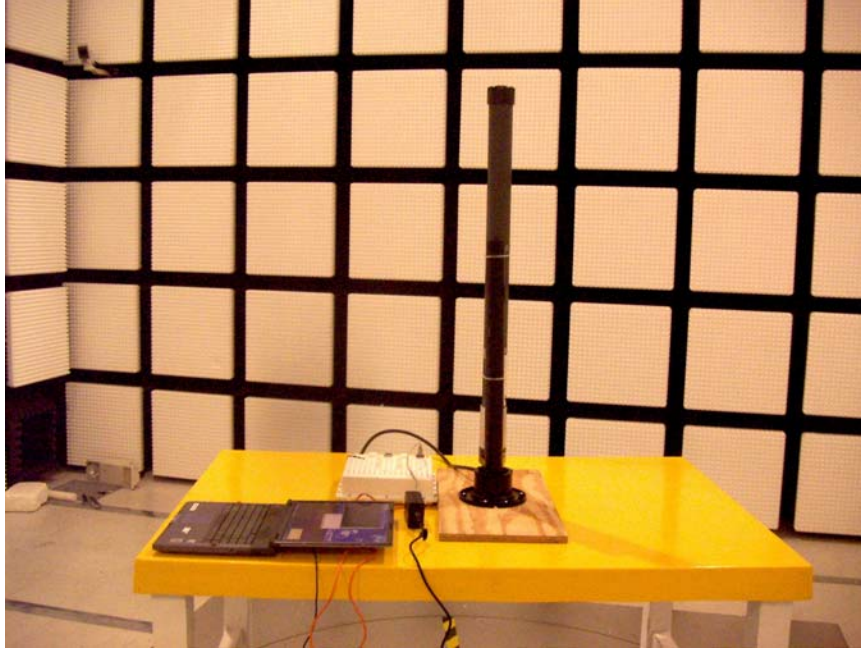
### RADIATED RF MEASUREMENT SETUP

#### OMNI ANTENNA



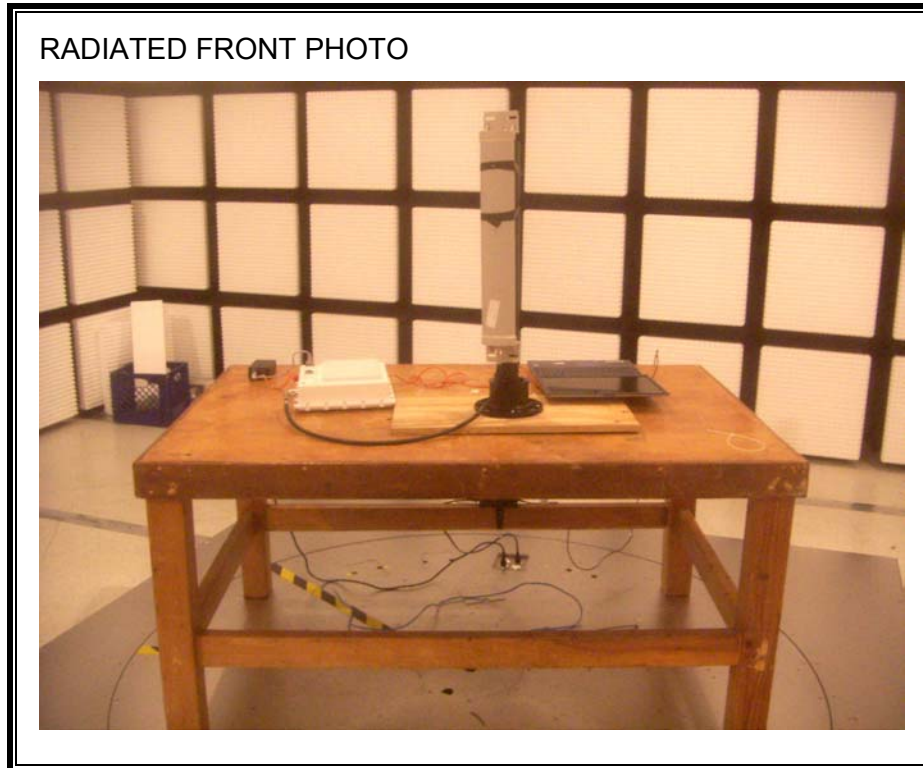


RADIATED BACK PHOTO



**RADIATED RF MEASUREMENT SETUP**

**SECTOR ANTENNA**

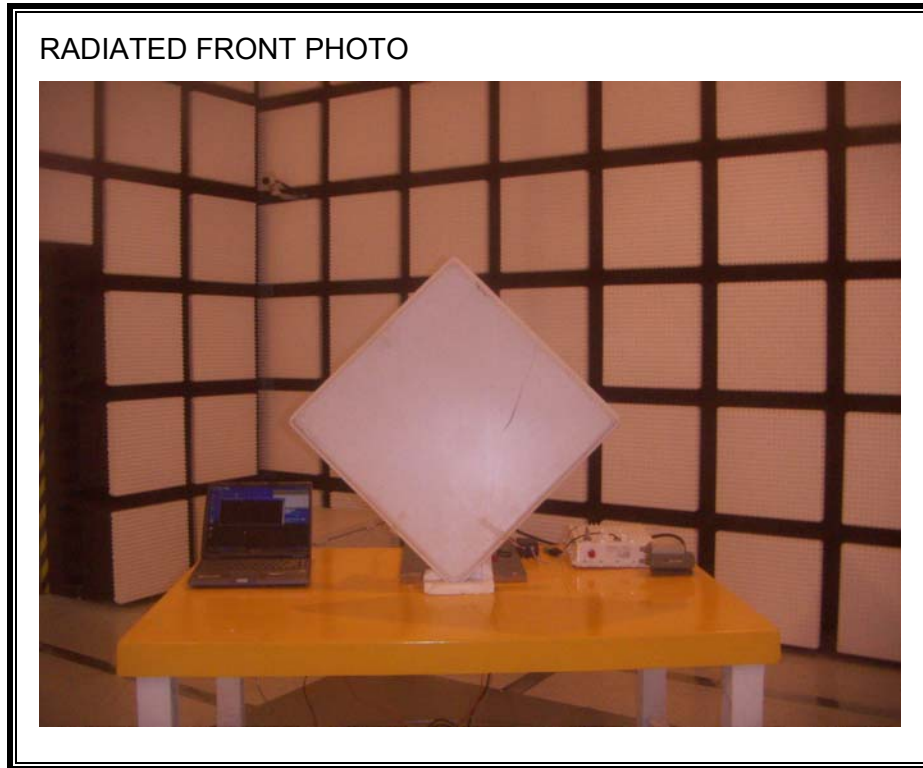


RADIATED BACK PHOTO

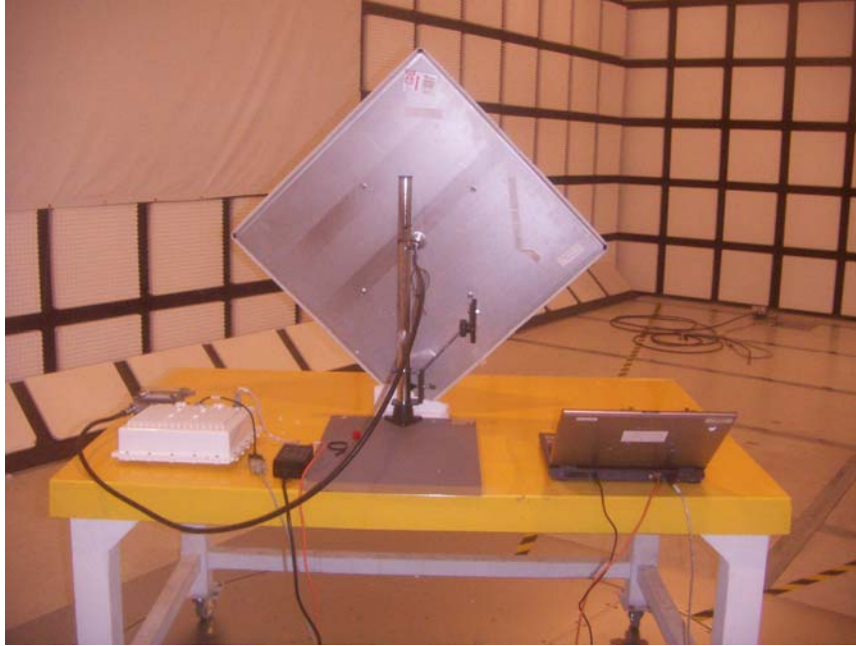


**RADIATED RF MEASUREMENT SETUP**

**PANELANTENNA**



RADIATED BACK PHOTO



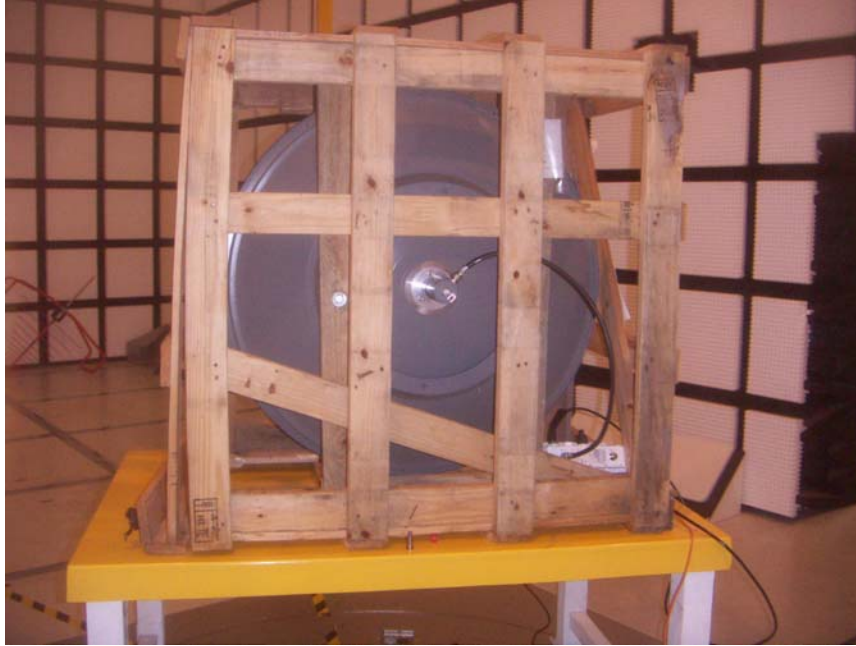
**RADIATED RF MEASUREMENT SETUP**

**PARABOLIC ANTENNA**





RADIATED BACK PHOTO



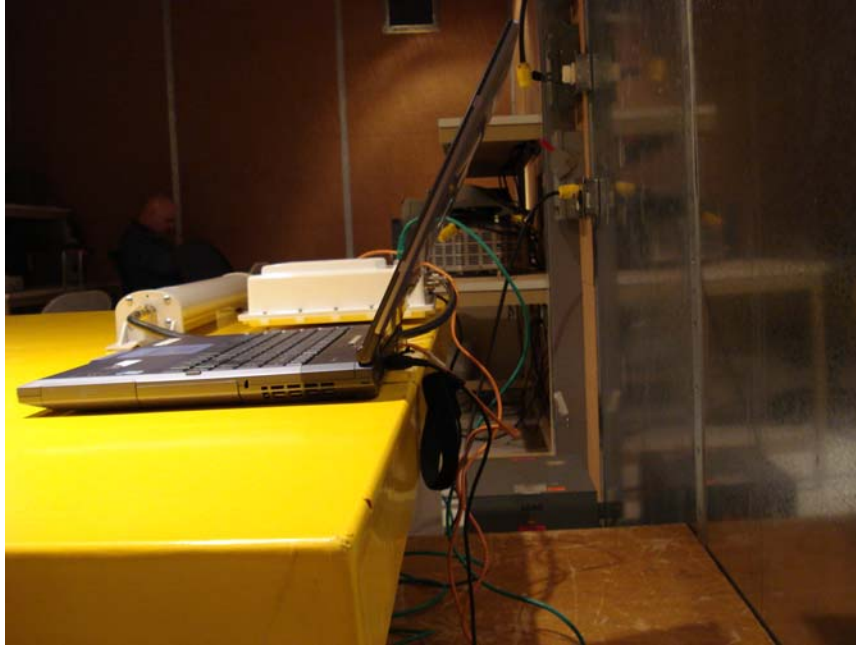
**POWERLINE CONDUCTED EMISSIONS MEASUREMENT SETUP**

**EUT WITH POE**





LINE CONDUCTED BACK PHOTO

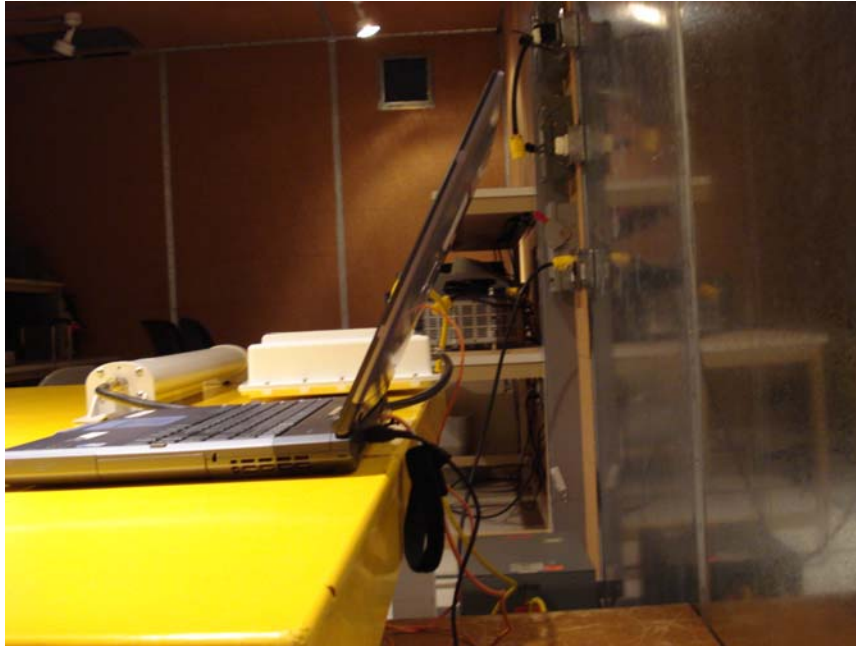


**POWERLINE CONDUCTED EMISSIONS MEASUREMENT SETUP**

**DIRECT POWER**



LINE CONDUCTED BACK PHOTO



**END OF REPORT**