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

FOR

BLUETOOTH TRANSCEIVER MODULE

MODEL NUMBER: UGPZ9

FCC ID: QDS-BRCM1026

IC: 4324A-BRCM1026

REPORT NUMBER: 07U11314-1B

ISSUE DATE: OCTOBER 08, 2007

Prepared for
BROADCOM CORP.
190 MATHILDA PLACE
SUNNYVALE, CA 94086, U.S.A.

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

Revision History

Rev.	Issue Date	Revisions	Revised By
--	10/02/07	Initial Issue	F. Ibrahim
B	10/08/07	Correct typo in section 5.5 and section 7.	Hsin Fu Shih

TABLE OF CONTENTS

1. ATTESTATION OF TEST RESULTS

COMPANY NAME: BROADCOM CORP.
190 MATHILDA PLACE
SUNNYVALE, CA 94086, USA

EUT DESCRIPTION: Bluetooth Transceiver Module

MODEL: UGPZ9

SERIAL NUMBER: AR002

DATE TESTED: September 24, 26 and 27, 2007

APPLICABLE STANDARDS	
STANDARD	**TEST RESULTS**
CFR 47 Part 15 Subpart C	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:

FRANK IBRAHIM
EMC SUPERVISOR
COMPLIANCE CERTIFICATION SERVICES

Tested By:

NINOUS DAVOUDI
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 a Bluetooth transceiver operating at 2400-2483.5 MHz.

The radio module is manufactured by Broadcom Corporation.

5.2. DESCRIPTION OF CLASS II PERMISSIVE CHANGE

Adding a new Chip antenna, with a maximum peak gain of 1.32 dBi.

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes a chip multilayer antenna manufactured by Murata / LDA 31, with a maximum gain of 1.32 dBi.

5.4. SOFTWARE AND FIRMWARE

The firmware installed in the EUT during testing was BCM_BTDL_v1.7.1

The EUT driver software installed in the laptop support equipment during testing was Driver v5.1.0.1400.

The test utility software used during testing was Broadcom Bluetool l v0.9.9.6

5.5. WORST-CASE CONFIGURATION AND MODE

The worst-case channel is determined as the channel with the highest output power. The highest measured output power was at 2441 MHz for both GFSK and 8PSK modulations.

5.6. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

PERIPHERAL SUPPORT EQUIPMENT LIST				
Description	**Manufacturer**	**Model**	**Serial Number**	**FCC ID**
Lop Top	HP	Pavilion zv600	CND52705L3	DOC
AC Adapter	HP	PPP017L	375126-001	DOC

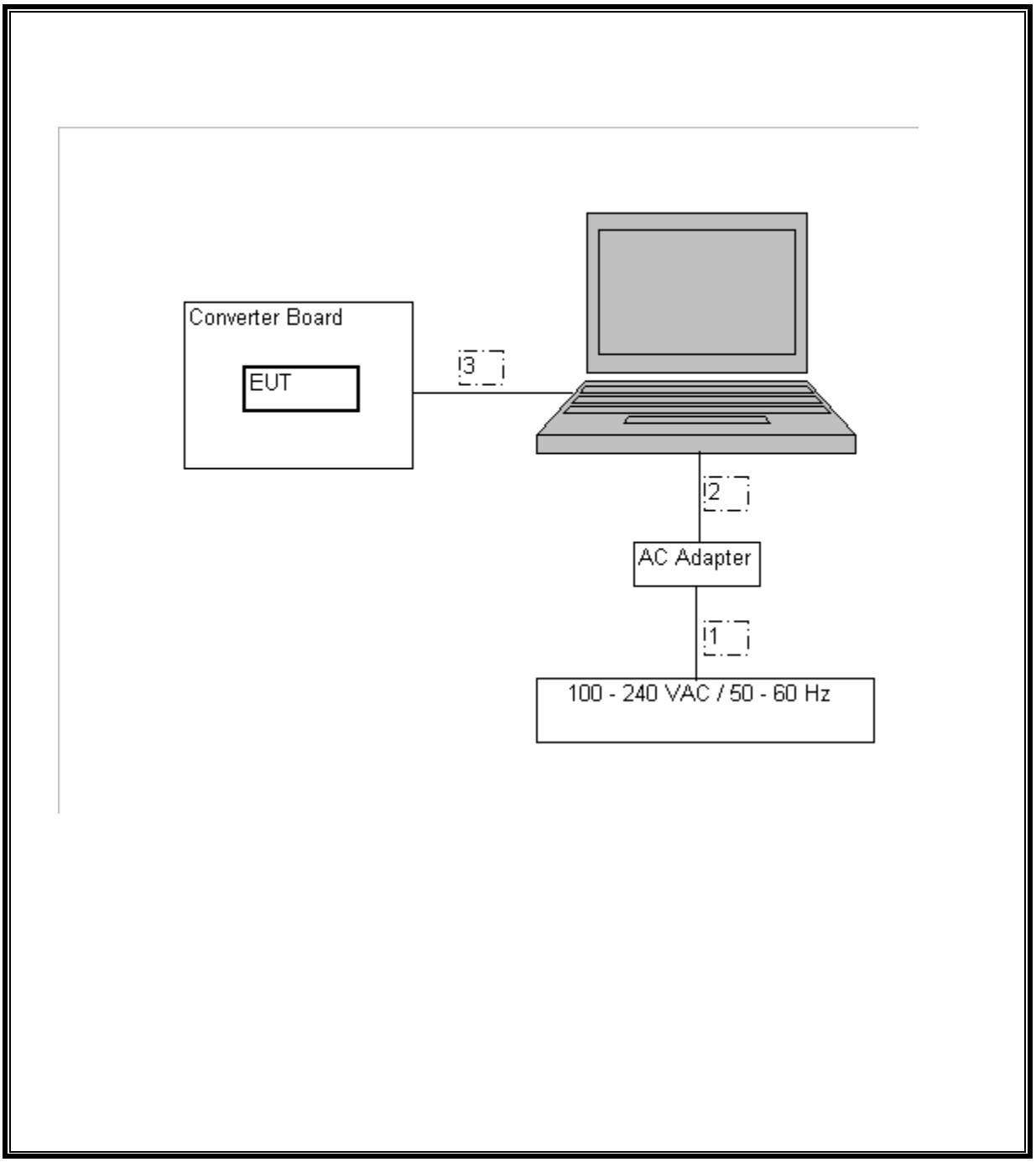
I/O CABLES

I/O CABLE LIST						
Cable No.	**Port**	**# of Identica Ports**	**Connector Type**	**Cable Type**	**Cable Length**	**Remarks**
1	AC	1	US115	Unshielded	1.8m	N/A
2	DC	1	DC	Unshielded	1.8m	N/A
3	USB	1	USB	Shielded	1.8m	N/A

TEST SETUP

The EUT was connected to the host laptop via a converter board. 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**	**Serial Number**	**Cal Due**
Preamp 30-1000MHz	Sonoma	310N	185623	01/20/08
Bilog Antenna 30-2000 MHz	Sunol Sciences	JB1	A121003	08/13/08
Spectrum Analyzer	HP	E4446A	US42510266	10/18/07
Antenna, Horn 1 ~ 18 GHz	EMCO	3115	6717	04/15/08
Preamplifier, 1 ~ 26.5 GHz	HP	8449B	3008A00369	10/03/07
RF Filter Section	Agilent / HP	85420E	3705A00256	06/12/08
EMI Receiver, 9 kHz ~ 2.9 GHz	Agilent / HP	8542E	3942A00286	06/12/08

7. ANTENNA PORT TEST RESULTS

For antenna port data, please refer to Cetecom Test Report BROAD_031_01001_15.247BT.

8. RADIATED TEST RESULTS

8.1. 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 (uV/m) at 3 m	Field Strength Limit (dBuV/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, and then the video bandwidth is set to 1 MHz for peak measurements and 10 Hz for average measurements.

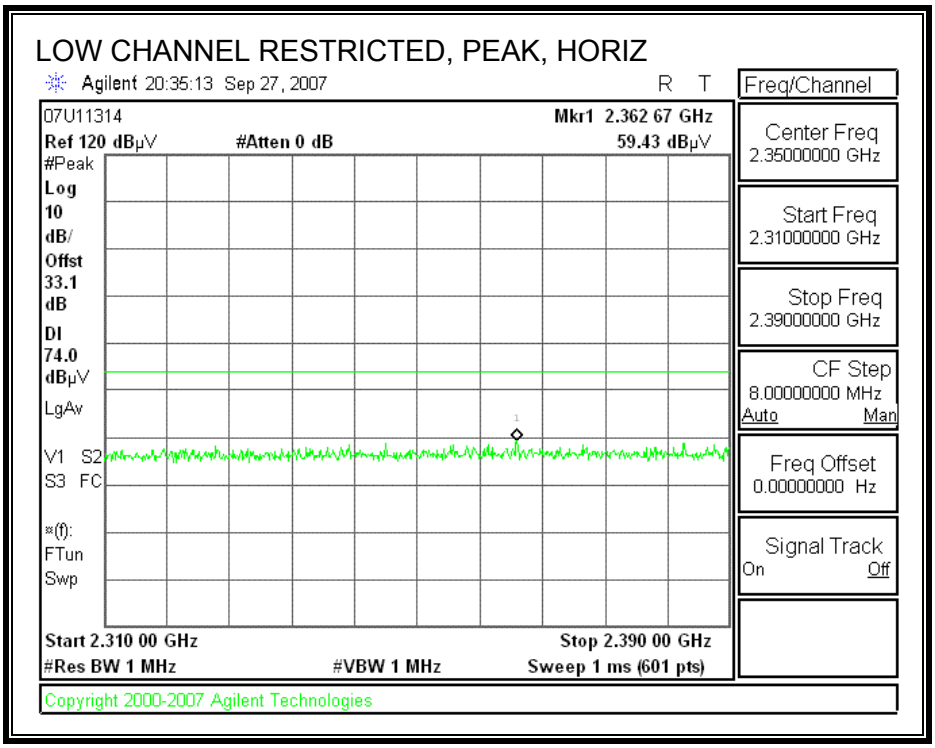
The spectrum from 30 MHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in the 2.4 GHz band.

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.

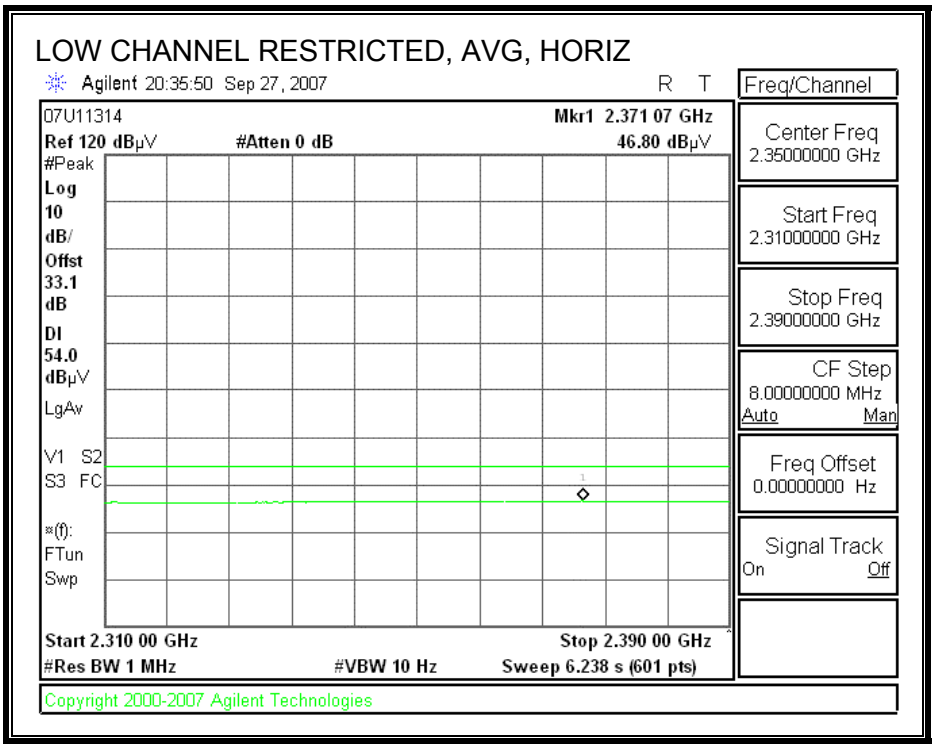
8.2. TRANSMITTER ABOVE 1 GHz

8.2.1. BASIC DATA RATE GFSK MODULATION

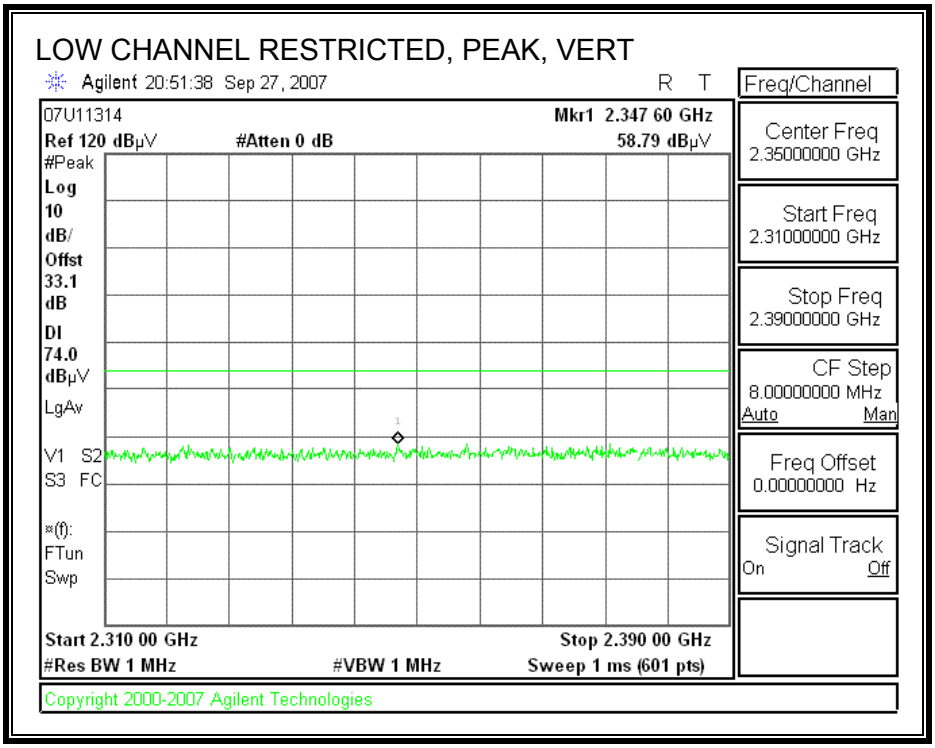
RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



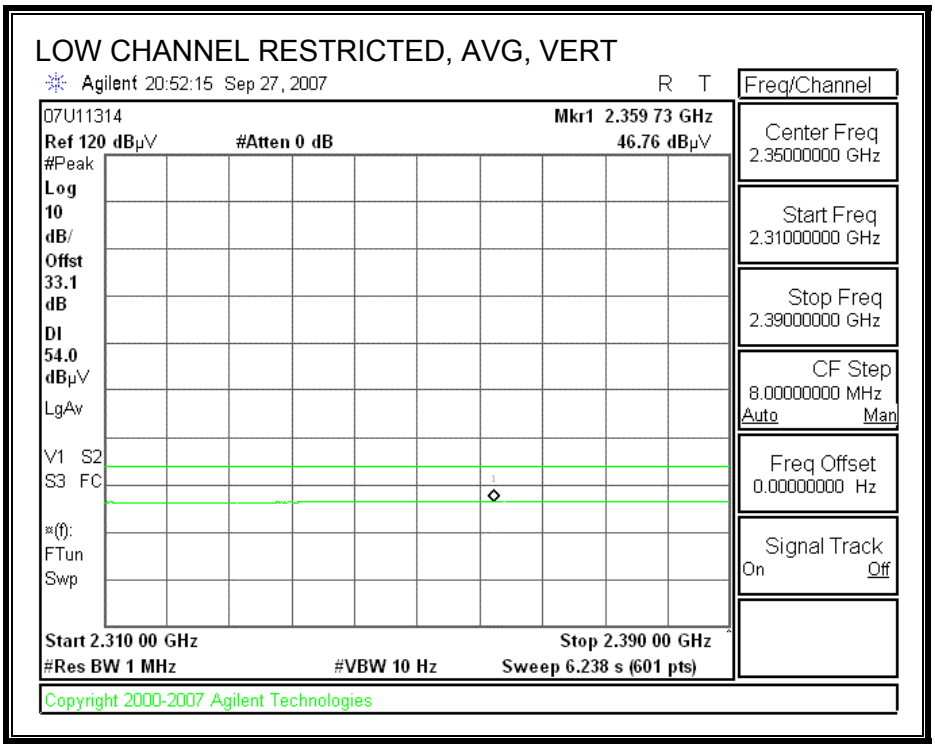
LOW CHANNEL RESTRICTED, AVG, HORIZ



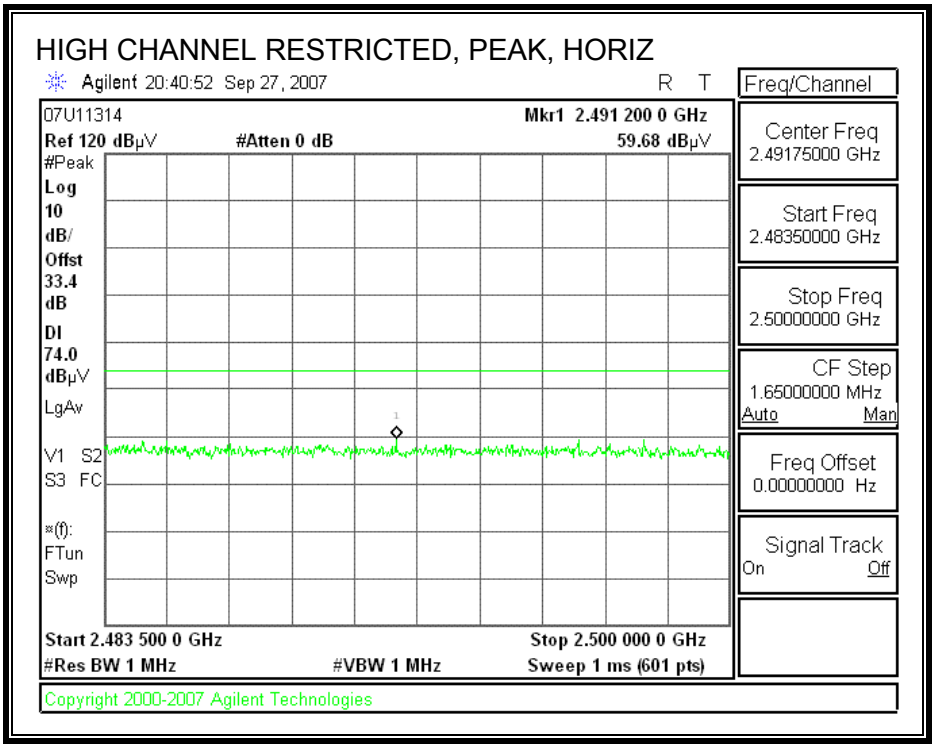
RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



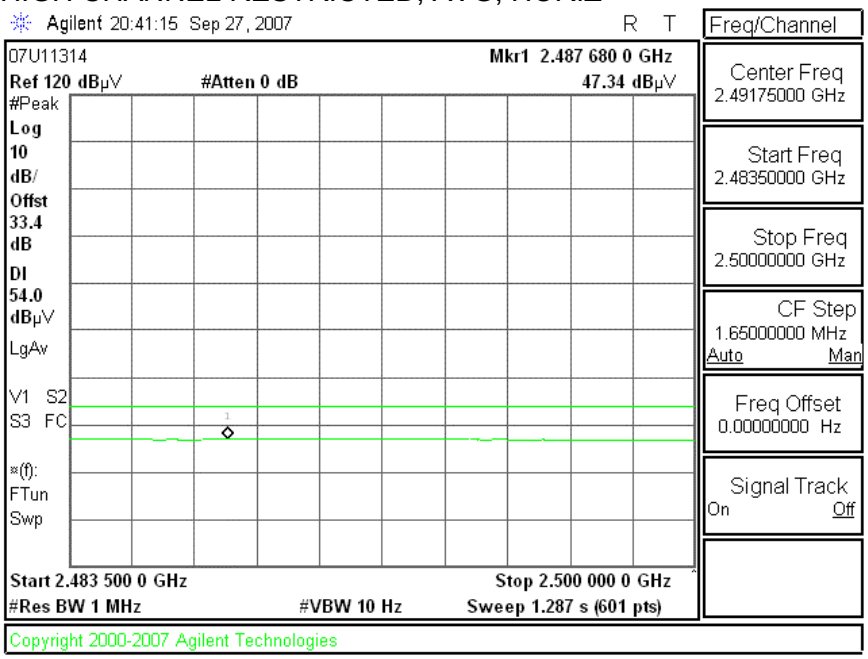
LOW CHANNEL RESTRICTED, AVG, VERT



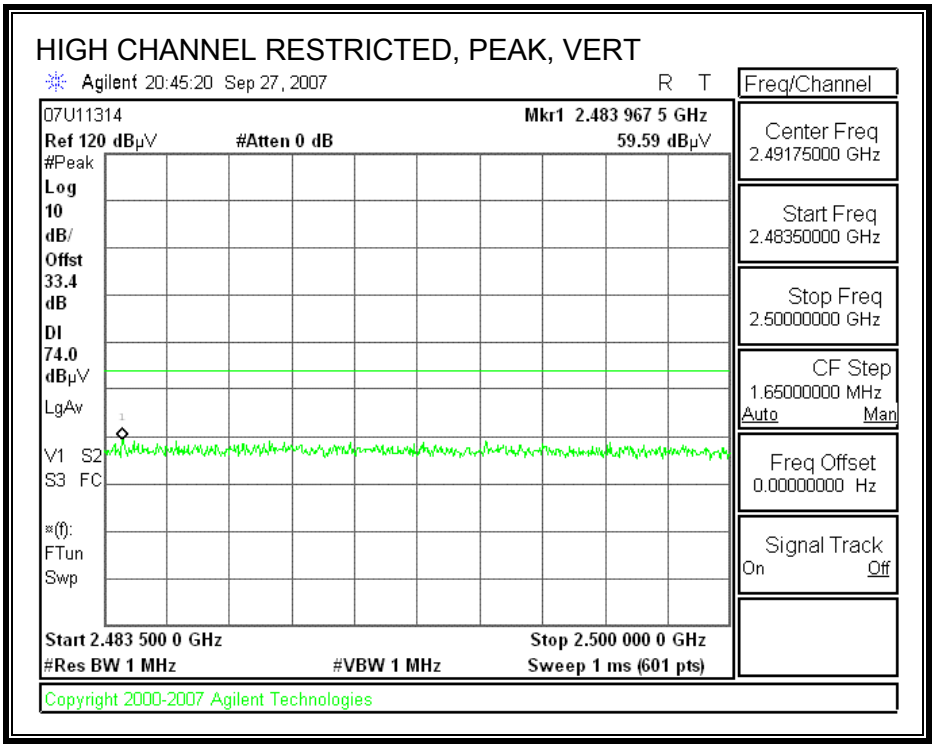
RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)

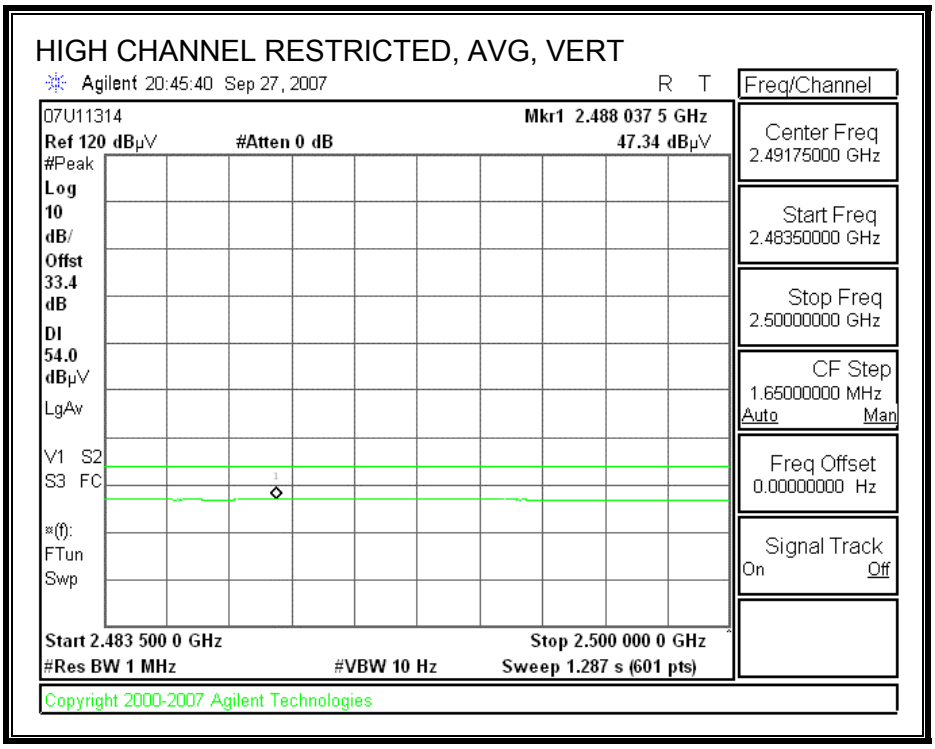


HIGH CHANNEL RESTRICTED, AVG, HORIZ



RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)





HARMONICS AND SPURIOUS EMISSIONS

High Frequency Measurement
Compliance Certification Services, Morgan Hill Open Field Site

Company: Broadcom Corporation
Project #: 07U11314
Date: September 27, 2007
Test Engineer: Ninous Davoudi
Configuration: EUT
Mode: Tx GFSK

Test Equipment:

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

2 foot cable	3 foot cable	12 foot cable	HPF	Reject Filter
		William 187 205004		

Peak Measurements
RBW=VBW=1MHz
Average Measurements
RBW=1MHz ; VBW=10Hz

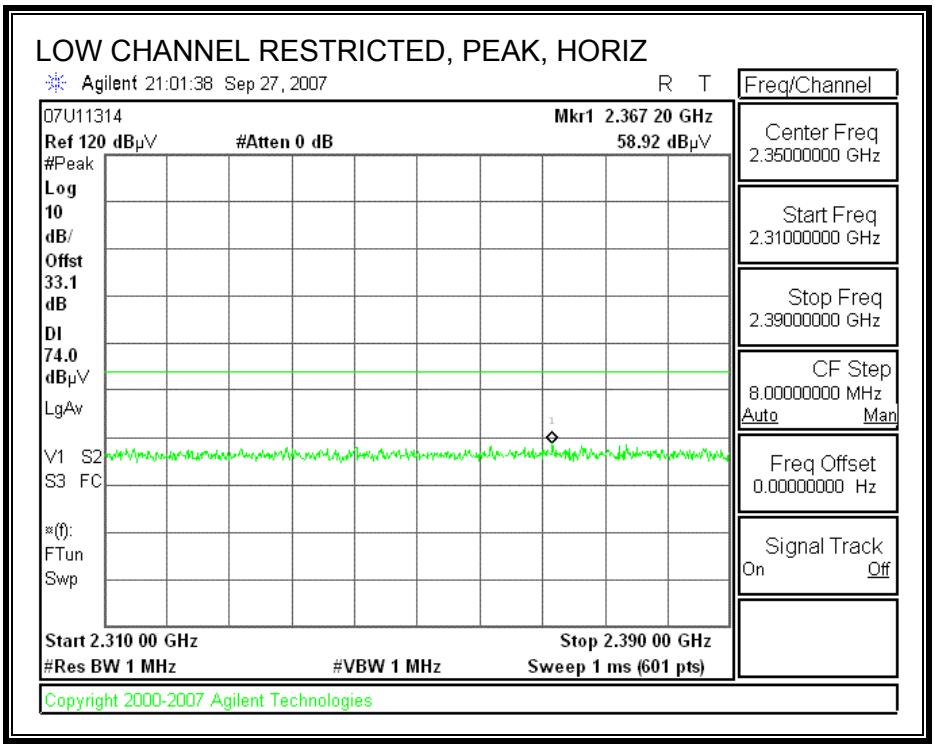
f GHz	Dist (m)	Read Pk dBuV	Read Avg dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Fltr dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)
Low CH															
1.000	3.0	63.3	48.0	23.8	1.5	-39.5	0.0	0.0	49.1	33.8	74	54	-24.9	-20.2	H
1.500	3.0	59.3	50.6	25.6	1.7	-38.8	0.0	0.0	47.8	39.1	74	54	-26.2	-14.9	H
7.026	3.0	61.8	49.4	34.8	3.3	-36.2	0.0	0.0	63.7	51.2	74	54	-10.3	-2.8	H
1.000	3.0	68.3	52.3	23.8	1.5	-39.5	0.0	0.0	54.1	38.0	74	54	-19.9	-16.0	V
1.500	3.0	64.4	55.7	25.6	1.7	-38.8	0.0	0.0	52.9	44.2	74	54	-21.1	-9.8	V
1.990	3.0	65.7	48.6	27.4	1.9	-38.1	0.0	0.0	56.9	39.8	74	54	-17.1	-14.2	V
Mid CH															
1.000	3.0	65.1	47.3	23.8	1.5	-39.5	0.0	0.0	50.9	33.1	74	54	-23.1	-20.9	H
1.500	3.0	61.8	52.3	25.6	1.7	-38.8	0.0	0.0	50.3	40.8	74	54	-23.7	-13.2	H
2.000	3.0	59.2	44.5	27.4	1.9	-38.1	0.0	0.0	50.5	35.7	74	54	-23.5	-18.3	H
1.000	3.0	68.5	51.9	23.8	1.5	-39.5	0.0	0.0	54.3	37.7	74	54	-19.7	-16.3	V
1.500	3.0	65.4	56.7	25.6	1.7	-38.8	0.0	0.0	54.0	45.2	74	54	-20.0	-8.8	V
1.989	3.0	65.0	47.2	27.4	1.9	-38.1	0.0	0.0	56.2	38.4	74	54	-17.8	-15.6	V
High CH															
1.000	3.0	63.7	47.0	23.8	1.5	-39.5	0.0	0.0	49.5	32.8	74	54	-24.5	-21.2	H
1.500	3.0	61.1	50.5	25.6	1.7	-38.8	0.0	0.0	49.7	39.0	74	54	-24.3	-15.0	H
1.997	3.0	60.2	47.1	27.4	1.9	-38.1	0.0	0.0	51.5	38.3	74	54	-22.5	-15.7	H
1.000	3.0	68.4	52.1	23.8	1.5	-39.5	0.0	0.0	54.2	37.9	74	54	-19.8	-16.1	V
1.500	3.0	64.9	55.3	25.6	1.7	-38.8	0.0	0.0	53.4	43.9	74	54	-20.6	-10.1	V
1.985	3.0	65.5	48.4	27.4	1.9	-38.1	0.0	0.0	56.7	39.6	74	54	-17.3	-14.4	V

no more emissions were detected

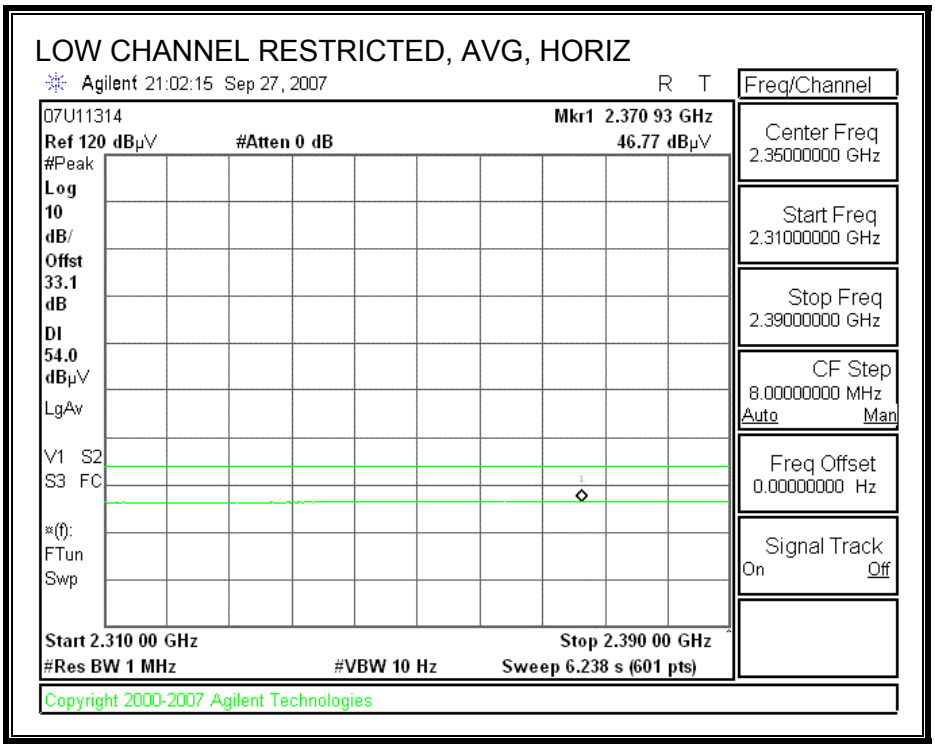
f	Measurement Frequency	Amp	Preamp Gain	Avg Lim	Average Field Strength Limit
Dist	Distance to Antenna	D Corr	Distance Correct to 3 meters	Pk Lim	Peak Field Strength Limit
Read	Analyzer Reading	Avg	Average Field Strength @ 3 m	Avg Mar	Margin vs. Average Limit
AF	Antenna Factor	Peak	Calculated Peak Field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

8.2.2. ENHANCED DATA RATE 8PSK MODULATION

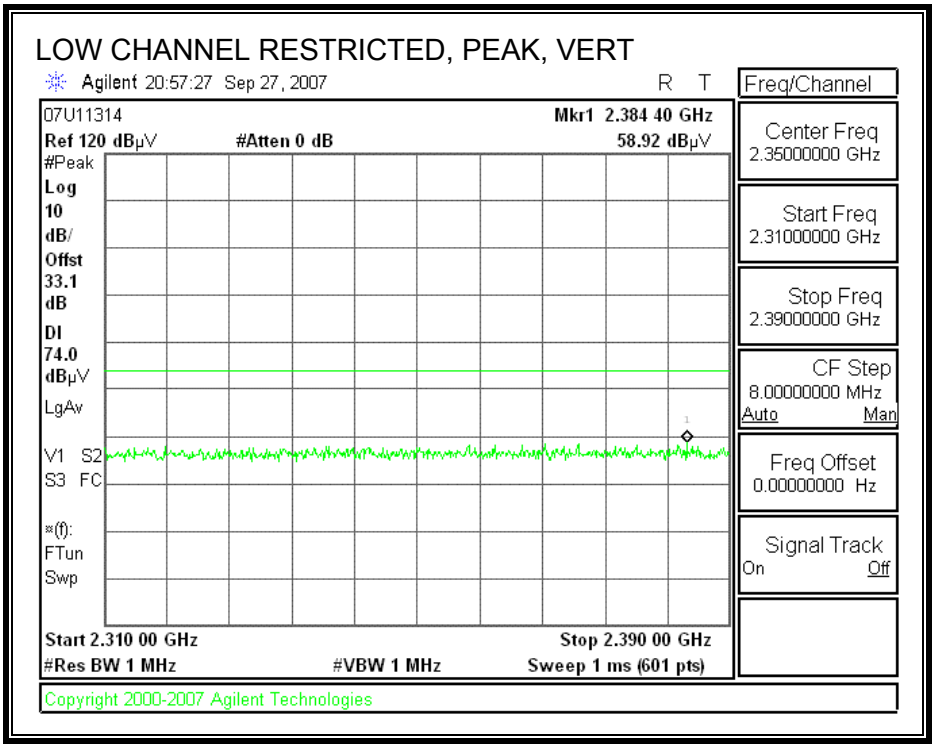
RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)

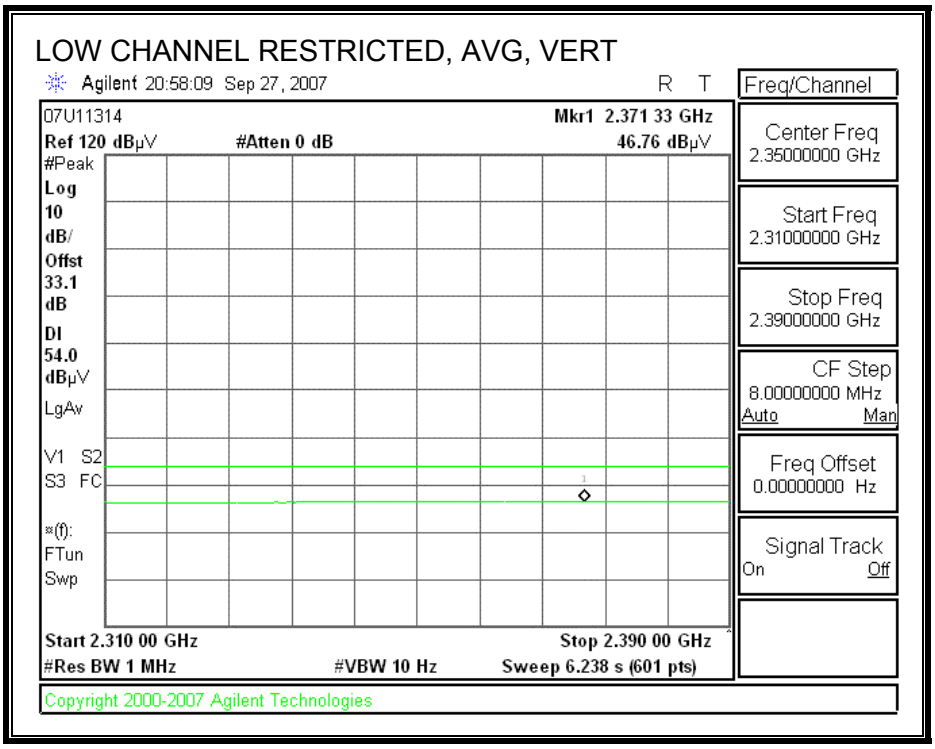


LOW CHANNEL RESTRICTED, AVG, HORIZ

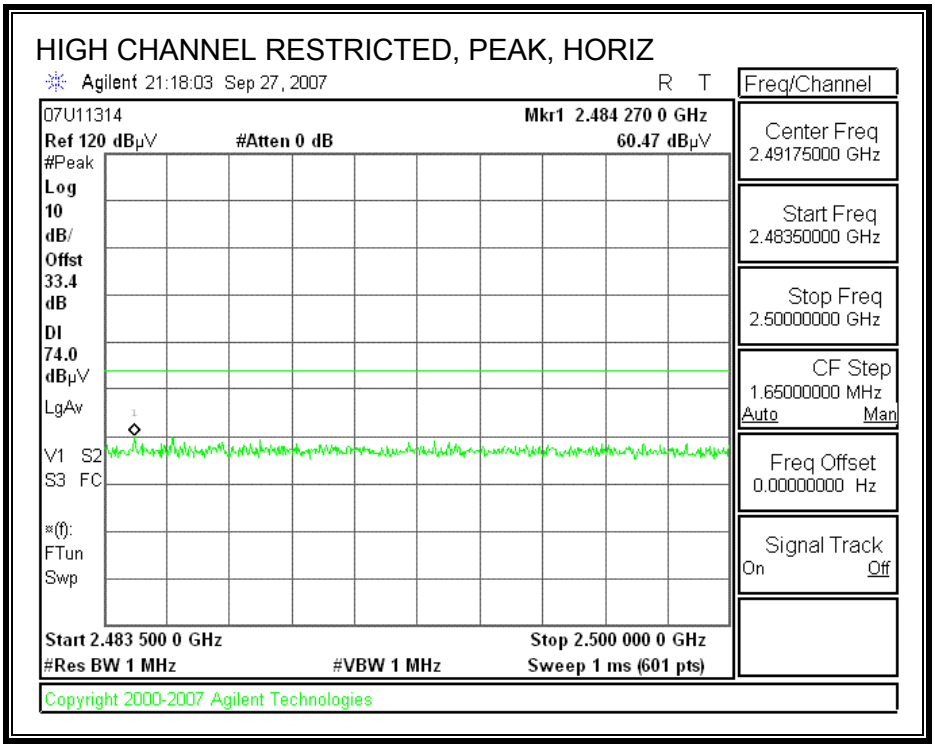


RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

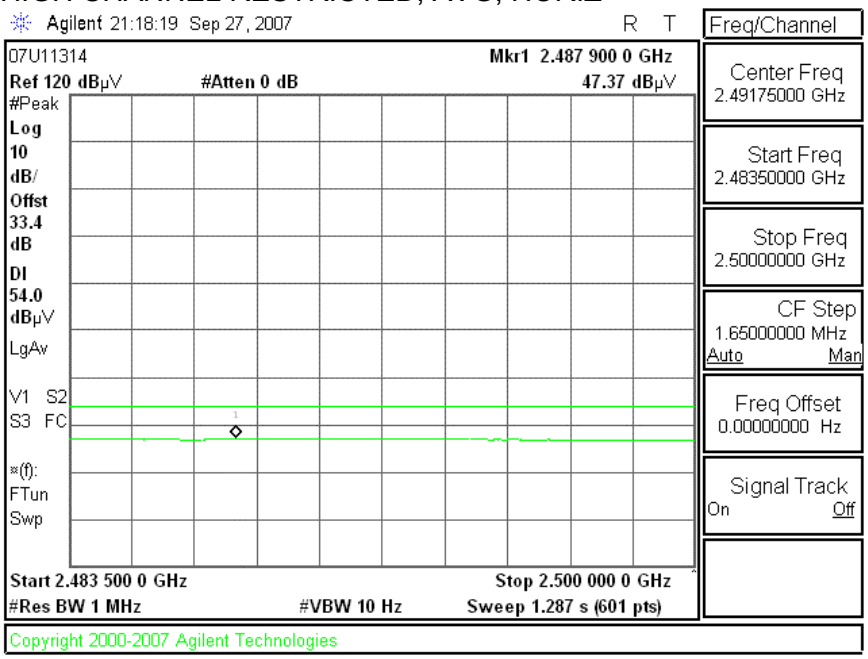




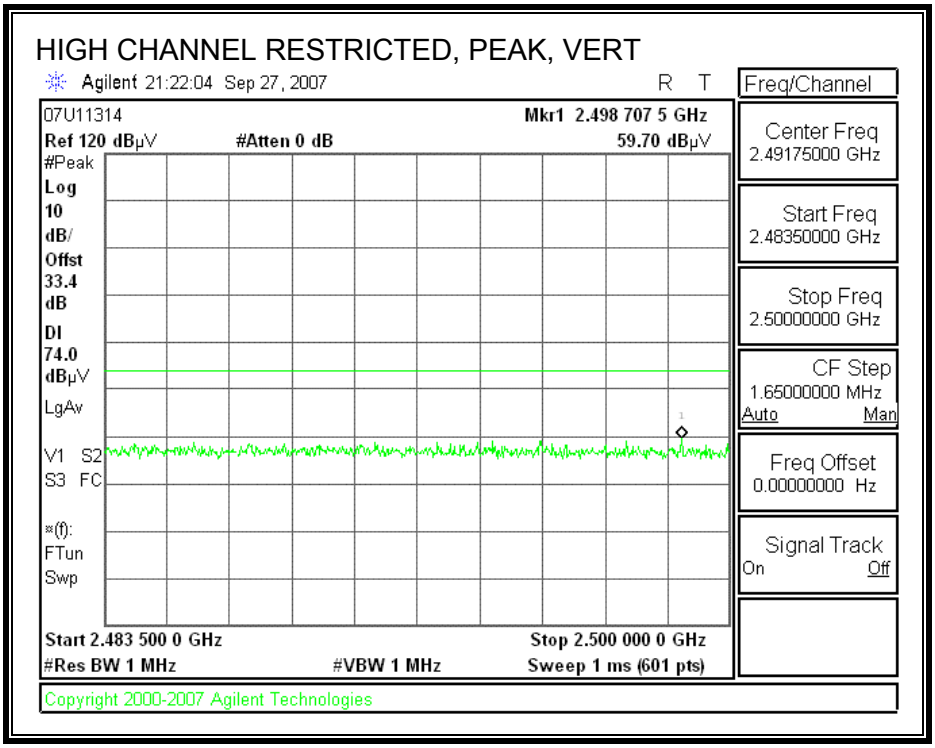
RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)

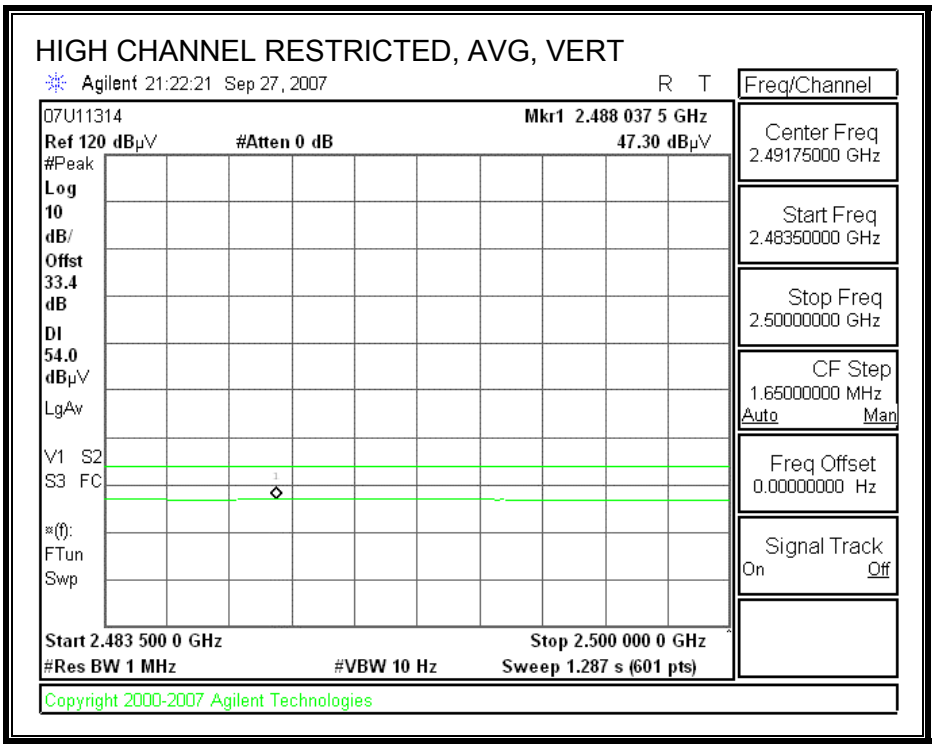


HIGH CHANNEL RESTRICTED, AVG, HORIZ



RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)





HARMONICS AND SPURIOUS EMISSIONS

High Frequency Measurement
Compliance Certification Services, Morgan Hill Open Field Site

Company: Broadcom Corporation
Project #: 07U11314
Date: September 27, 2007
Test Engineer: Ninous Davoudi
Configuration: EUT
Mode: Tx 8PSK

Test Equipment:

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

2 foot cable	3 foot cable	12 foot cable	HPF	Reject Filter
		William 187209004		

Peak Measurements
RBW=VBW=1MHz
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)
Low CH															
1.000	3.0	63.4	47.4	23.8	1.5	-39.5	0.0	0.0	49.2	33.2	74	54	-24.8	-20.8	H
1.500	3.0	61.2	51.9	25.6	1.7	-38.8	0.0	0.0	49.7	40.4	74	54	-24.3	-13.6	H
2.000	3.0	60.3	46.6	27.4	1.9	-38.1	0.0	0.0	51.6	37.9	74	54	-22.4	-16.1	H
1.000	3.0	68.4	52.0	23.8	1.5	-39.5	0.0	0.0	54.2	37.8	74	54	-19.8	-16.2	V
1.500	3.0	64.9	56.0	25.6	1.7	-38.8	0.0	0.0	53.4	44.5	74	54	-20.6	-9.5	V
1.990	3.0	65.5	48.0	27.4	1.9	-38.1	0.0	0.0	56.7	39.2	74	54	-17.3	-14.8	V
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1.000	3.0	61.4	47.2	23.8	1.5	-39.5	0.0	0.0	47.1	32.9	74	54	-26.9	-21.1	H
1.500	3.0	61.4	51.6	25.6	1.7	-38.8	0.0	0.0	49.9	40.2	74	54	-24.1	-13.8	H
2.000	3.0	60.6	47.0	27.4	1.9	-38.1	0.0	0.0	51.9	38.2	74	54	-22.1	-15.8	H
1.000	3.0	68.9	52.3	23.8	1.5	-39.5	0.0	0.0	54.7	38.1	74	54	-19.3	-15.9	V
1.500	3.0	64.3	55.8	25.6	1.7	-38.8	0.0	0.0	52.8	44.3	74	54	-21.2	-9.7	V
1.989	3.0	64.9	48.0	27.4	1.9	-38.1	0.0	0.0	56.1	39.1	74	54	-17.9	-14.9	V
High CH															
1.000	3.0	62.0	47.1	23.8	1.5	-39.5	0.0	0.0	47.8	32.9	74	54	-26.2	-21.1	H
1.500	3.0	61.1	51.6	25.6	1.7	-38.8	0.0	0.0	49.6	40.1	74	54	-24.4	-13.9	H
1.997	3.0	60.6	47.1	27.4	1.9	-38.1	0.0	0.0	51.9	38.3	74	54	-22.1	-15.7	H
1.000	3.0	68.8	52.2	23.8	1.5	-39.5	0.0	0.0	54.6	38.0	74	54	-19.4	-16.0	V
1.500	3.0	65.0	55.9	25.6	1.7	-38.8	0.0	0.0	53.6	44.4	74	54	-20.4	-9.6	V
1.985	3.0	65.0	48.1	27.4	1.9	-38.1	0.0	0.0	56.2	39.3	74	54	-17.8	-14.7	V

no more emissions were detected

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		

8.3. RECEIVER ABOVE 1 GHz

8.3.1. RECEIVER ABOVE 1 GHz

High Frequency Measurement
Compliance Certification Services, Morgan Hill Open Field Site

Company: Broadcom Corporation
Project #: 07U11314
Date: September 27, 2007
Test Engineer: Ninous Davoudi
Configuration: EUT
Mode: RX

Test Equipment:

Horn 1-18GHz	Pre-amplifer 1-26GHz	Pre-amplifer 26-40GHz	Horn > 18GHz	Limit
T73; S/N: 6717 @3m	T144 Miteq 3008A00831			RX RSS 210

Hi Frequency Cables

2 foot cable	3 foot cable	12 foot cable	HPF	Reject Filter
		William 187209004		

Peak Measurements
RBW=VBW=1MHz
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)
Mid CH															
1.000	3.0	61.7	47.2	23.8	1.5	-39.5	0.0	0.0	47.5	33.0	74	54	-26.5	-21.0	H
1.499	3.0	61.3	51.7	25.6	1.7	-38.8	0.0	0.0	49.8	40.2	74	54	-24.2	-13.8	H
1.993	3.0	60.2	47.1	27.4	1.9	-38.1	0.0	0.0	51.4	38.3	74	54	-22.6	-15.7	H
1.000	3.0	68.3	52.1	23.8	1.5	-39.5	0.0	0.0	54.1	37.9	74	54	-19.9	-16.1	V
1.500	3.0	64.3	55.9	25.6	1.7	-38.8	0.0	0.0	52.8	44.4	74	54	-21.2	-9.6	V
1.987	3.0	65.1	48.0	27.4	1.9	-38.1	0.0	0.0	56.3	39.1	74	54	-17.7	-14.9	V
no more emissions were detected															

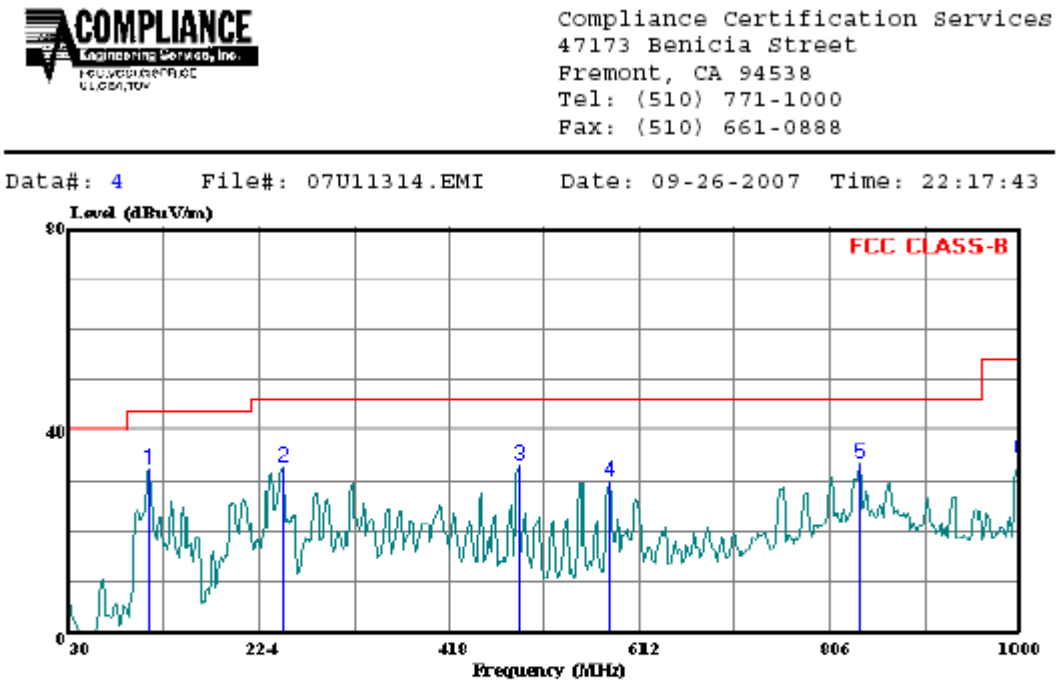
f	Measurement Frequency	Amp	Preamp Gain	Avg Lim	Average Field Strength Limit
Dist	Distance to Antenna	D Corr	Distance Correct to 3 meters	Pk Lim	Peak Field Strength Limit
Read	Analyzer Reading	Avg	Average Field Strength @ 3 m	Avg Mar	Margin vs. Average Limit
AF	Antenna Factor	Peak	Calculated Peak Field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

8.4. WORST-CASE BELOW 1 GHz

GFSK

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

HORIZONTAL PLOT



HORIZONTAL DATA

Page: 1

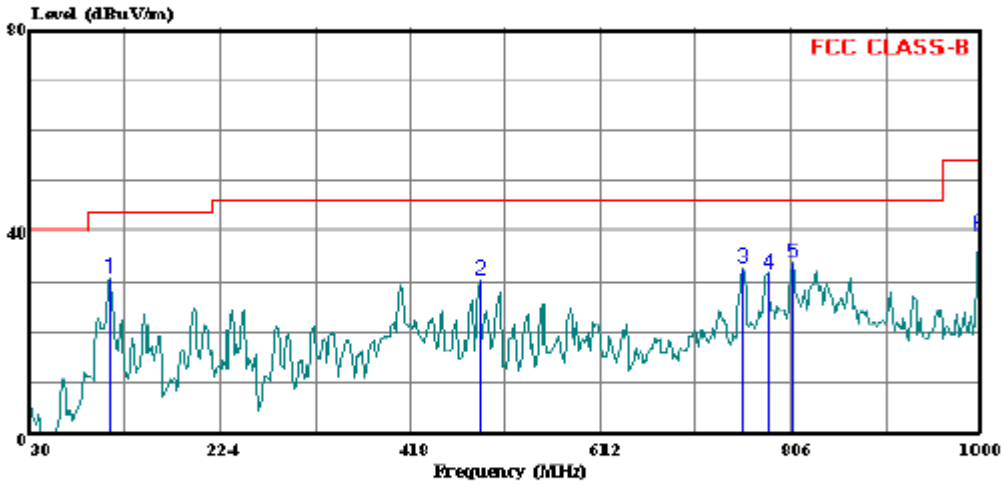
	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	111.480	50.95	-18.39	32.56	43.50	-10.94	Peak
2	247.280	50.75	-17.94	32.81	46.00	-13.19	Peak
3	487.840	44.68	-11.43	33.25	46.00	-12.75	Peak
4	581.930	40.12	-10.09	30.03	46.00	-15.97	Peak
5	837.040	39.73	-6.19	33.54	46.00	-12.46	Peak
6	999.030	37.64	-2.91	34.73	54.00	-19.27	Peak

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

VERTICAL PLOT

Compliance Certification Services
47173 Benicia Street
Fremont, CA 94538
Tel: (510) 771-1000
Fax: (510) 661-0888

Data#: 2 File#: 07U11314.EMI Date: 09-26-2007 Time: 21:29:30



Trace: 1 Ref Trace:

Condition: FCC CLASS-B VERTICAL
Test Operator:: Ninous Davoudi
Project #: : 07U11314
Company: : Broadcom Corporation
Configuration:: EUT
Mode : : Tx mode, GFSK
Target: : FCC Class B

VERTICAL DATA

Page: 1

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	111.480	49.38	-18.39	30.99	43.50	-12.51	Peak
2	487.840	41.88	-11.43	30.45	46.00	-15.55	Peak
3	756.530	40.59	-7.59	33.00	46.00	-13.00	Peak
4	783.690	38.92	-7.17	31.75	46.00	-14.25	Peak
5	807.940	40.93	-6.82	34.11	46.00	-11.89	Peak
6	998.060	42.05	-2.88	39.16	54.00	-14.84	Peak

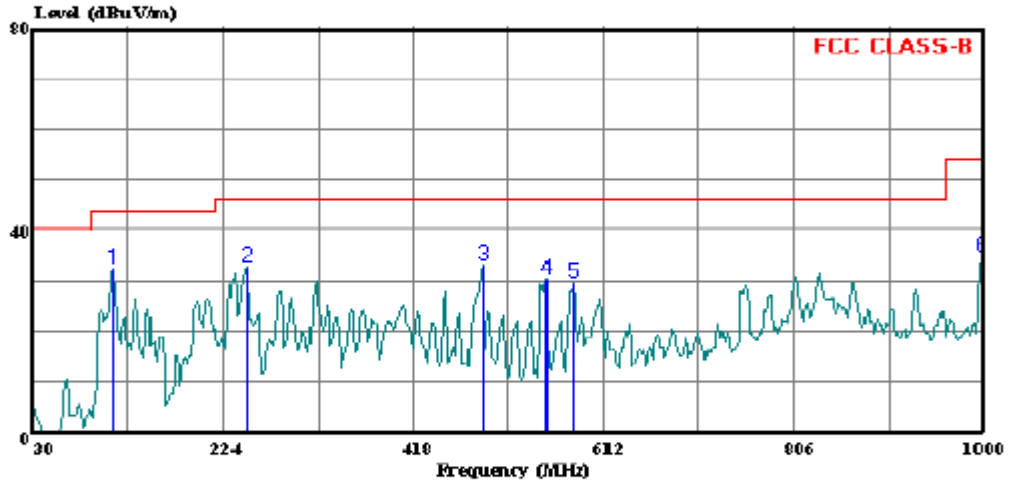
8PSK

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

HORIZONTAL PLOT

Compliance Certification Services
47173 Benicia Street
Fremont, CA 94538
Tel: (510) 771-1000
Fax: (510) 661-0888

Data#: 6 File#: 07U11314.EMI Date: 09-26-2007 Time: 22:28:35



Trace: 5 Ref Trace:

Condition: FCC CLASS-B HORIZONTAL
Test Operator:: Ninous Davoudi
Project #: : 07U11314
Company: : Broadcom Corporation
Configuration:: EUT
Mode : : Tx mode, 8PSK
Target: : FCC Class B

HORIZONTAL DATA

Page: 1

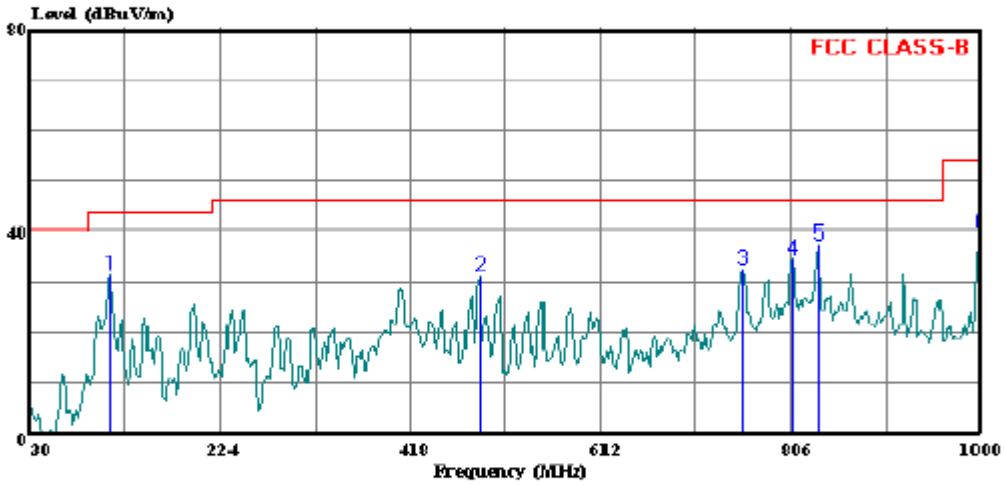
	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	111.480	50.93	-18.39	32.54	43.50	-10.96	Peak
2	247.280	50.84	-17.94	32.90	46.00	-13.10	Peak
3	487.840	44.59	-11.43	33.16	46.00	-12.84	Peak
4	552.830	40.93	-10.53	30.40	46.00	-15.60	Peak
5	581.930	39.78	-10.09	29.69	46.00	-16.31	Peak
6	997.090	37.94	-2.86	35.08	54.00	-18.92	Peak

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

VERTICAL PLOT

Compliance Certification Services
47173 Benicia Street
Fremont, CA 94538
Tel: (510) 771-1000
Fax: (510) 661-0888

Data#: 8 File#: 07U11314.EMI Date: 09-26-2007 Time: 22:38:56



Trace: 7 Ref Trace:

Condition: FCC CLASS-B VERTICAL
Test Operator:: Ninous Davoudi
Project #: : 07U11314
Company: : Broadcom Corporation
Configuration:: EUT
Mode : : Tx mode, 8PSK
Target: : FCC Class B

VERTICAL DATA

Page: 1

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	111.480	49.73	-18.39	31.34	43.50	-12.16	Peak
2	487.840	42.47	-11.43	31.04	46.00	-14.96	Peak
3	756.530	40.18	-7.59	32.59	46.00	-13.41	Peak
4	807.940	41.59	-6.82	34.77	46.00	-11.23	Peak
5	834.130	43.66	-6.36	37.30	46.00	-8.70	Peak
6	999.030	42.40	-2.91	39.49	54.00	-14.51	Peak

9. SETUP PHOTOS

RADIATED RF MEASUREMENT SETUP

RADIATED FRONT PHOTO

RADIATED BACK PHOTO

END OF REPORT