



**RADIATED SPURIOUS EMISSIONS PORTIONS OF  
FCC CFR47 PART 15 SUBPART C**

**CERTIFICATION TEST REPORT  
FOR**

**SINGLE-BAND 1xRTT CDMA PHONE WITH BLUETOOTH**

**FCC MODEL NUMBER: K009**

**FCC ID: V65K009**

**REPORT NUMBER: 11U13670-2**

**ISSUE DATE: MARCH 07 2010**

*Prepared for*  
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**9520 TOWNE CENTER DRIVE**  
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NVLAP LAB CODE 200065-0

Revision History

Rev.	Issue Date	Revisions	Revised By
---	03/06/2011	Initial Issue	T. Chan

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## 1. ATTESTATION OF TEST RESULTS

**COMPANY NAME:** KYOCERA COMMUNICATIONS, INC.  
 9520 TOWNE CENTER DRIVE  
 SAN DIEGO, CA 92121, USA

**EUT DESCRIPTION:** SINGLE-BAND 1XRTT CDMA PHONE WITH BLUETOOTH

**MODEL:** K009

**SERIAL NUMBER:** F14WS2

**DATE TESTED:** MARCH 06, 2011

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart C	PASS (Radiated Portions)

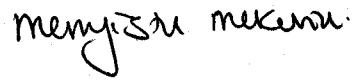
Compliance Certification Services, Inc. (UL CCS) tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by UL CCS based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. 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 UL CCS and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL CCS will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of any government.

Approved & Released For UL CCS By:



Tested By:




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THU CHAN  
 ENGINEERING MANAGER  
 UL CCS

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MENGISTU MEKURIA  
 EMC ENGINEER  
 UL CCS

## 2. TEST METHODOLOGY

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

## 3. FACILITIES AND ACCREDITATION

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

UL 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. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

$$\begin{aligned} \text{Field Strength (dBuV/m)} &= \text{Measured Voltage (dBuV)} + \text{Antenna Factor (dB/m)} + \\ &\text{Cable Loss (dB)} - \text{Preamp Gain (dB)} \\ 36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} &= 28.9 \text{ dBuV/m} \end{aligned}$$

### 4.3. MEASUREMENT UNCERTAINTY

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

PARAMETER	UNCERTAINTY
Conducted Disturbance, 0.15 to 30 MHz	3.52 dB
Radiated Disturbance, 30 to 1000 MHz	4.94 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 featured Single-band CDMA Phone that is manufactured by Kyocera Corporations.

### 5.2. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes an internal antenna, with a maximum gain of 0 dBi.

### 5.3. SOFTWARE AND FIRMWARE

N/A

### 5.4. WORST-CASE CONFIGURATION AND MODE

The worst-position was the EUT with highest emissions. To determine the worst-case, the EUT was investigated for X, Y, and Z-Positions, and the worst position among X, Y, and Z with flap open and AC/DC adapter, after the investigations, the worst-position was turned out to be an X-position flapped open with AC/DC adapter.

## 5.5. DESCRIPTION OF TEST SETUP

### SUPPORT EQUIPMENT

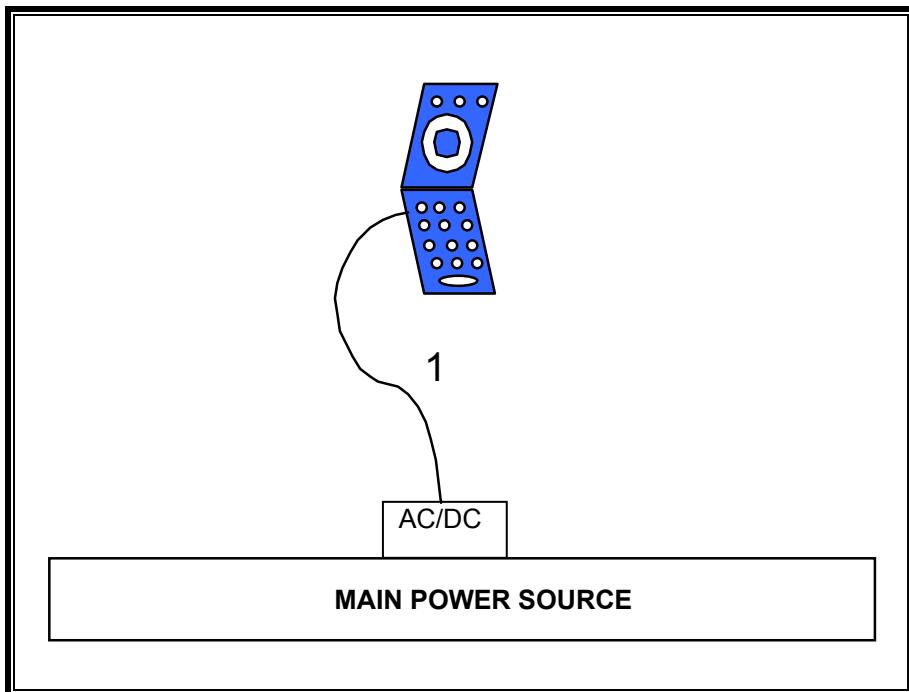
PERIPHERAL SUPPORT EQUIPMENT LIST				
Description	Manufacturer	Model	Serial Number	FCC ID
AC/DC Adapter	KDDI	0203QPA	1	N/A

### I/O CABLES

I/O CABLE LIST						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length	Remarks
1	DC Input	1	Flat-Jack	Un-Shielded	2.0 m	N/A

### TEST SETUP

The EUT is configured as stand alone unit for above 1GHz radiated emission and with AC/DC adapter for below 1GHz radiated emissions and AC Line Conduction emission tests.

**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 Due
Preamplifier, 1300 MHz	Agilent / HP	8447D	C00885	01/27/12
Preamplifier, 26.5 GHz	Agilent / HP	8449B	C01063	07/14/11
Antenna, Horn, 18 GHz	EMCO	3115	C00783	06/29/11
Antenna, Bilog, 2 GHz	Sunol Sciences	JB1	C01016	07/12/11
Spectrum Analyzer, 26.5 GHz	Agilent / HP	E4440A	C01178	08/30/11
EMI Test Receiver, 30 MHz	R & S	ESHS 20	N02396	05/06/11
LISN, 30 MHz	FCC	LISN-50/250-25-2	N02625	11/10/11
LISN, 10 kHz ~ 30 MHz	Solar	8012-50-R-24-BNC	N02481	11/10/11
Reject Filter, 2.4-2.5 GHz	Micro-Tronics	BRM50703	N02686	CNR

## 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 (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.

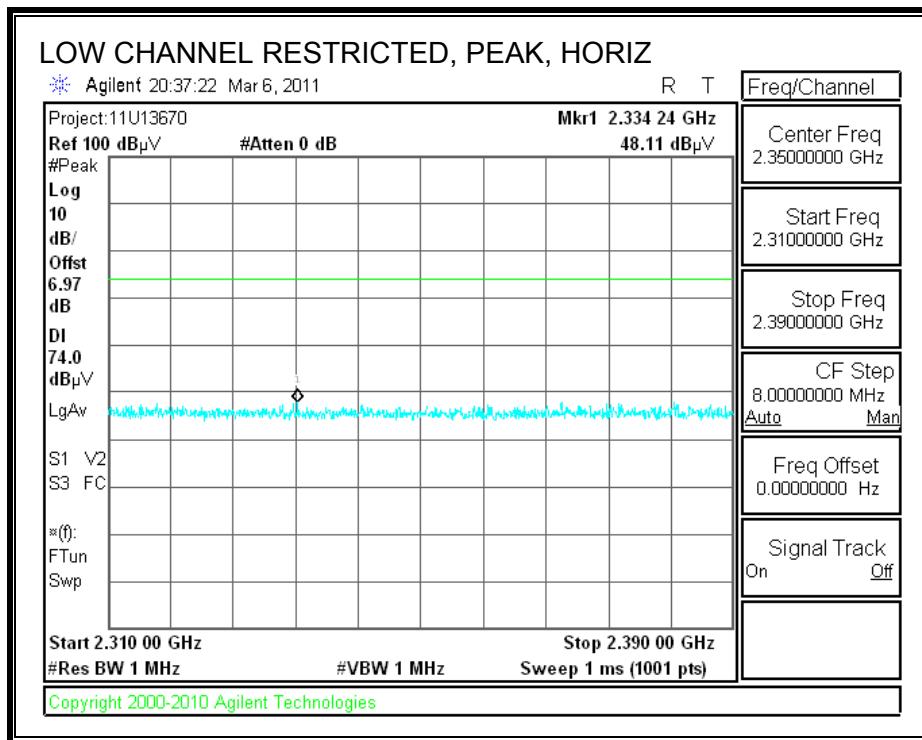
The spectrum from 30 MHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in the 2.4 GHz band.

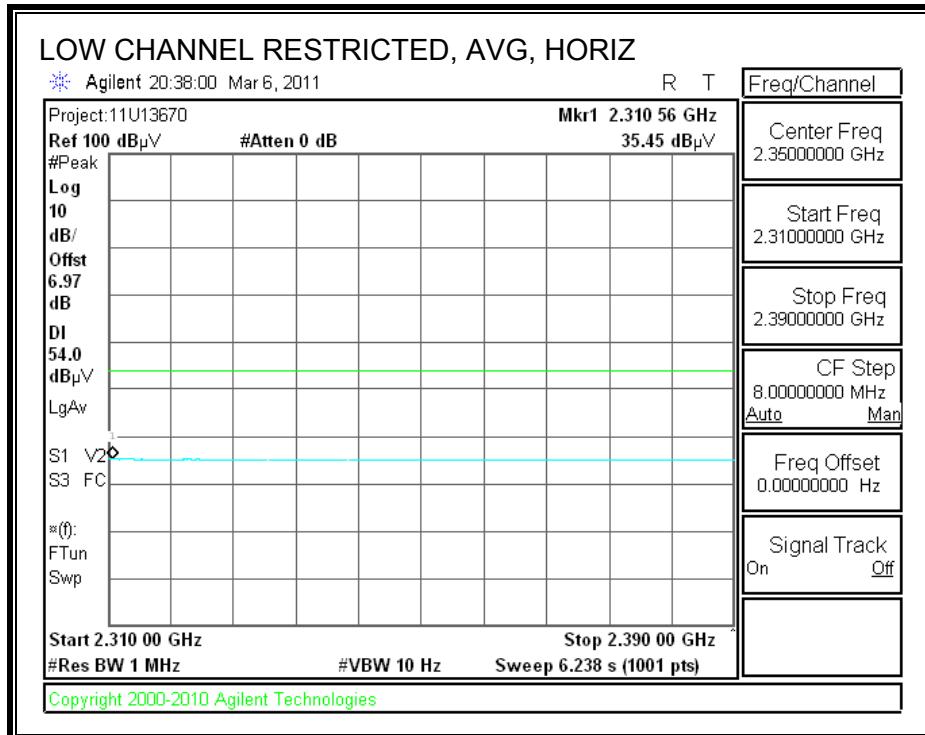
The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized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

## 7.2. TRANSMITTER ABOVE 1 GHz

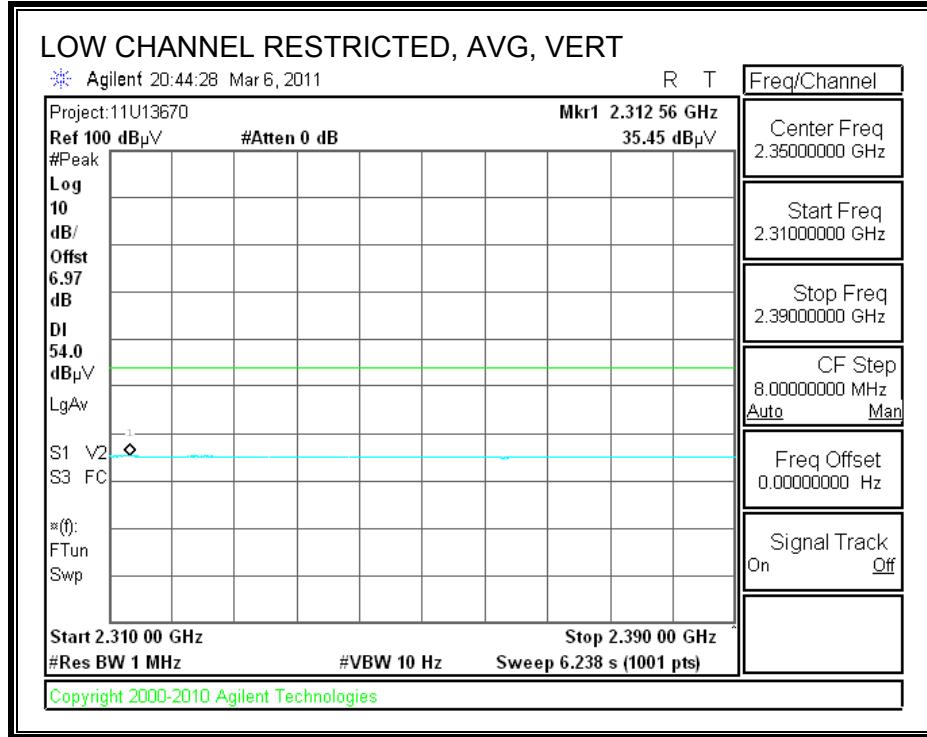
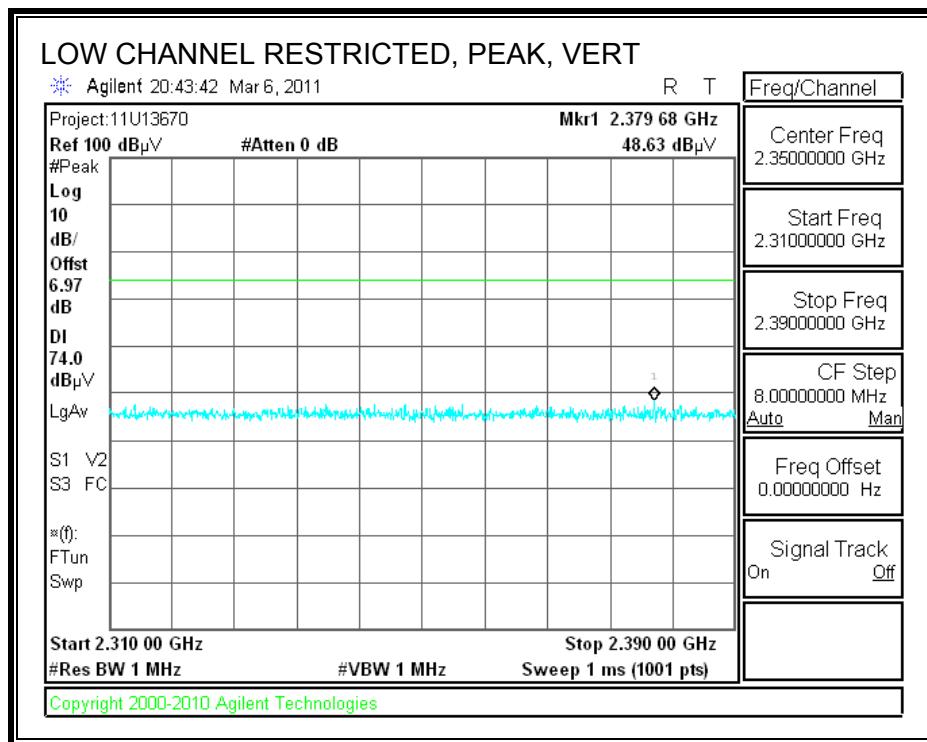
### 7.2.1. BASIC DATA RATE GFSK MODULATION

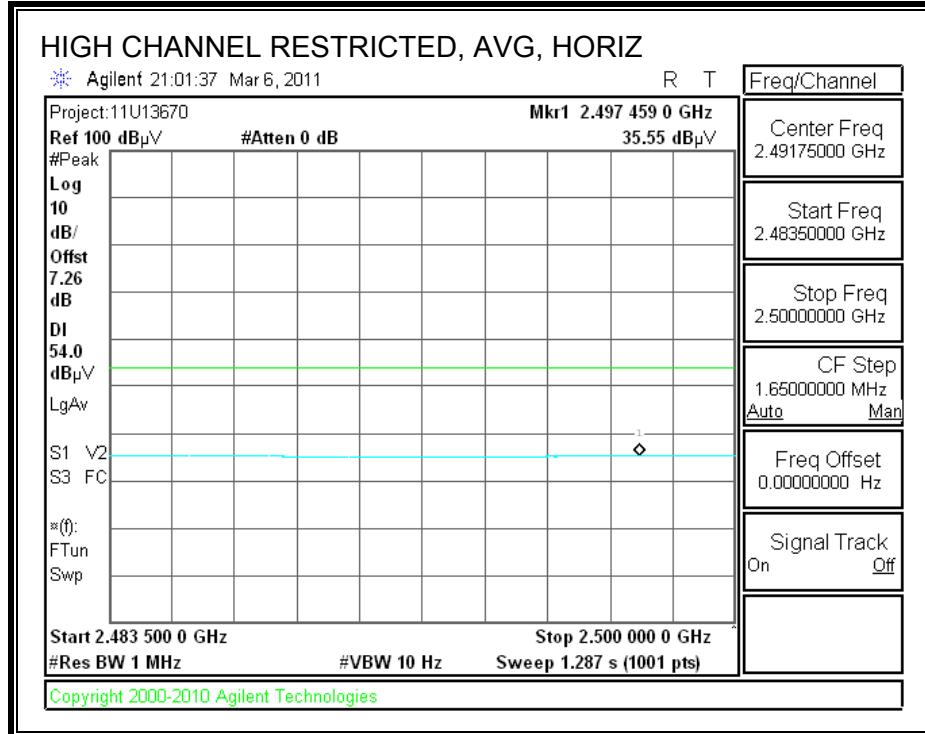
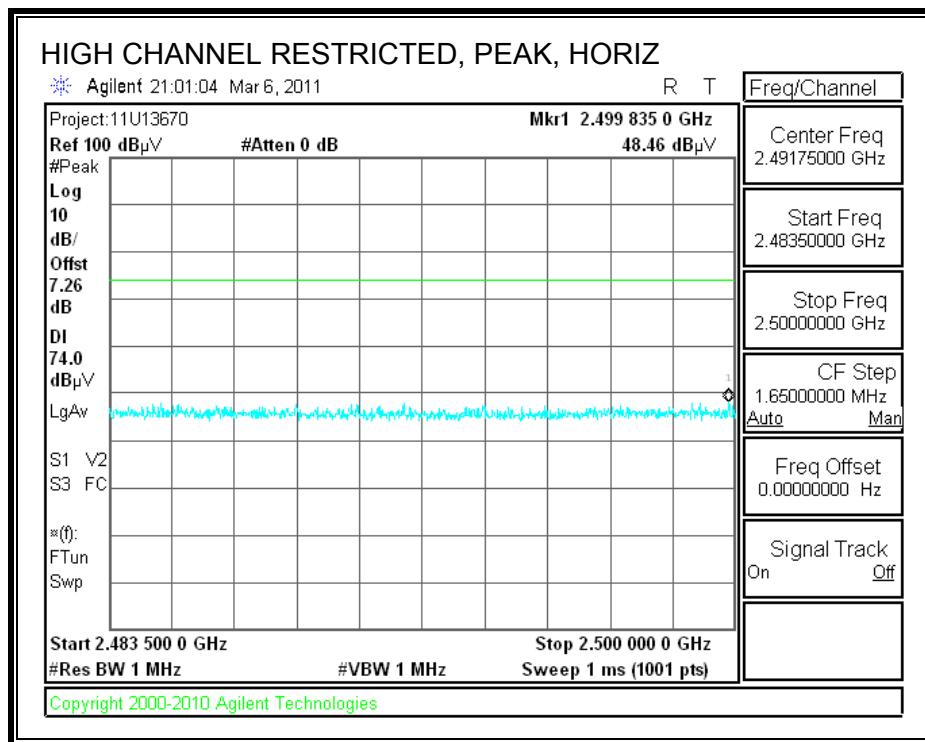
## RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)

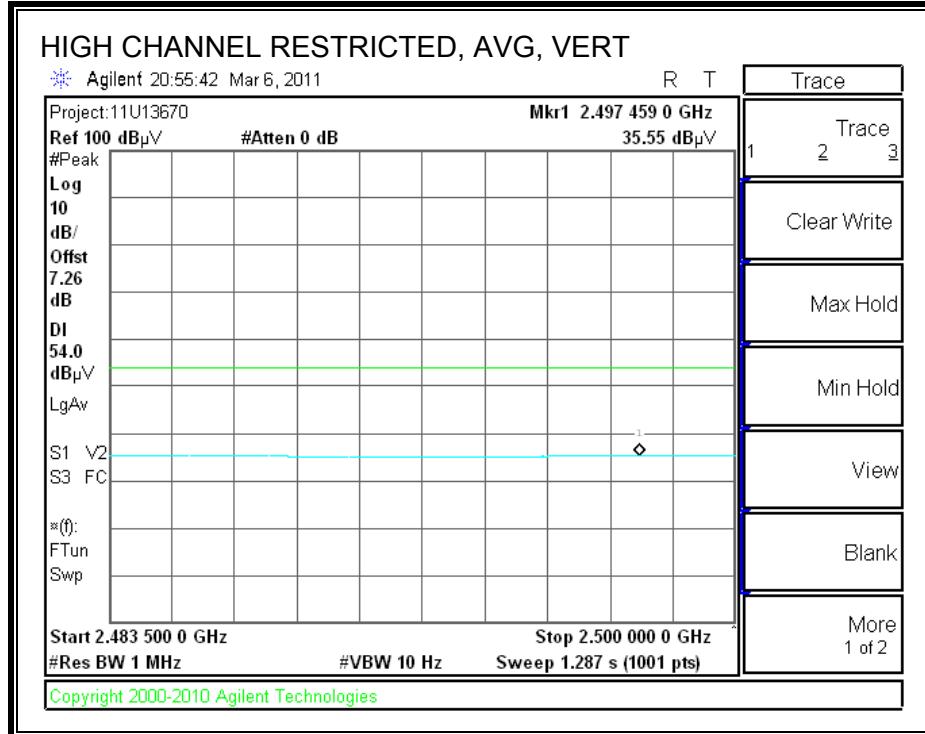
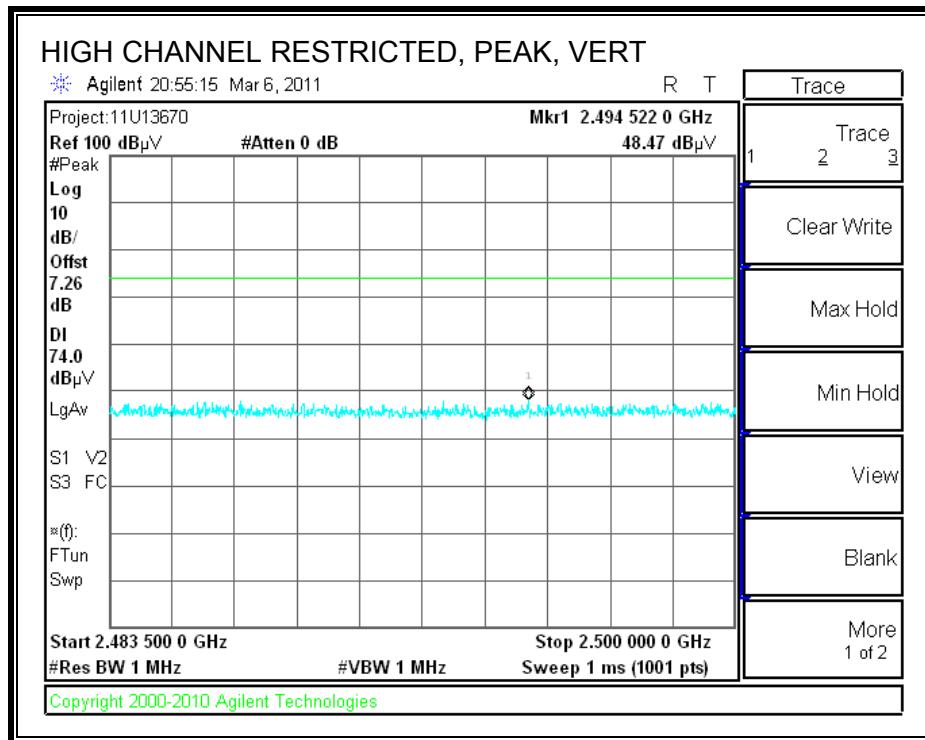




**RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)**



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

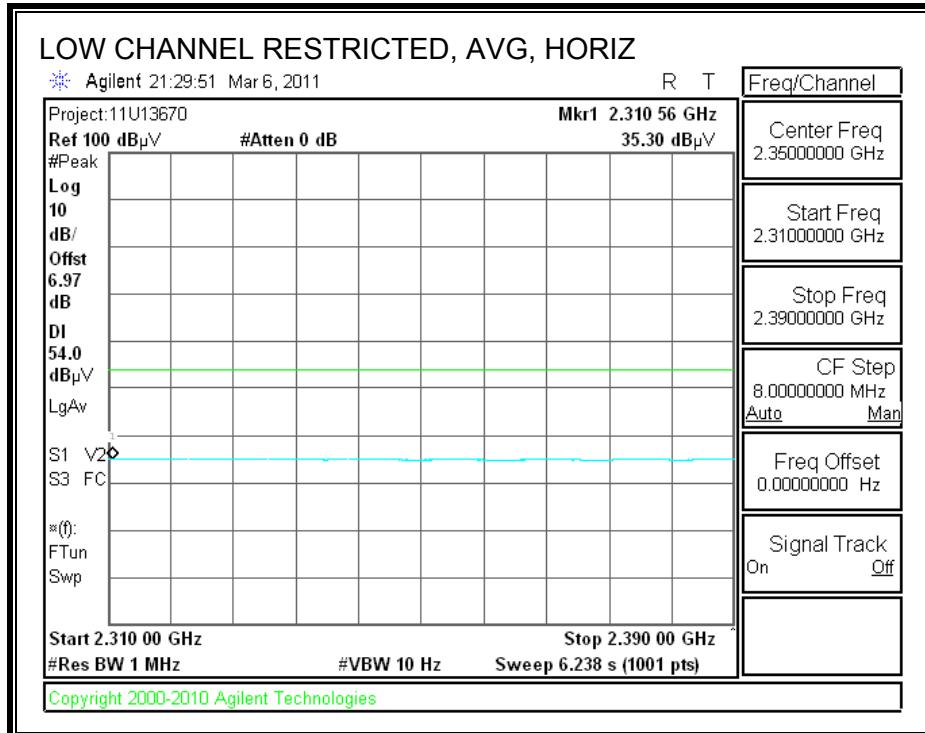
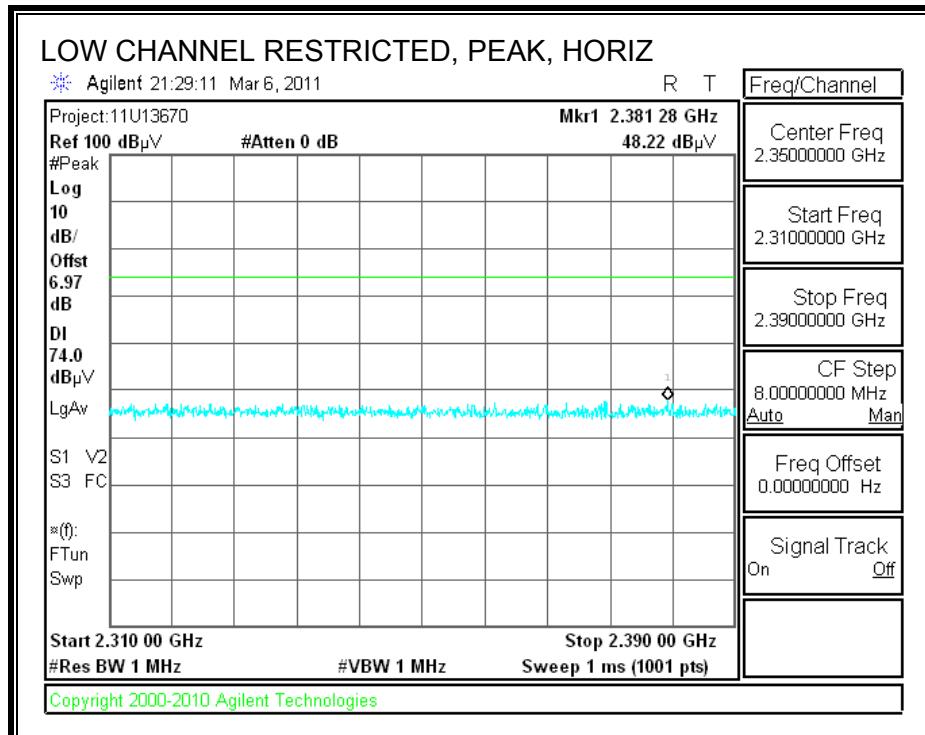
**RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)**

**HARMONICS AND SPURIOUS EMISSIONS**

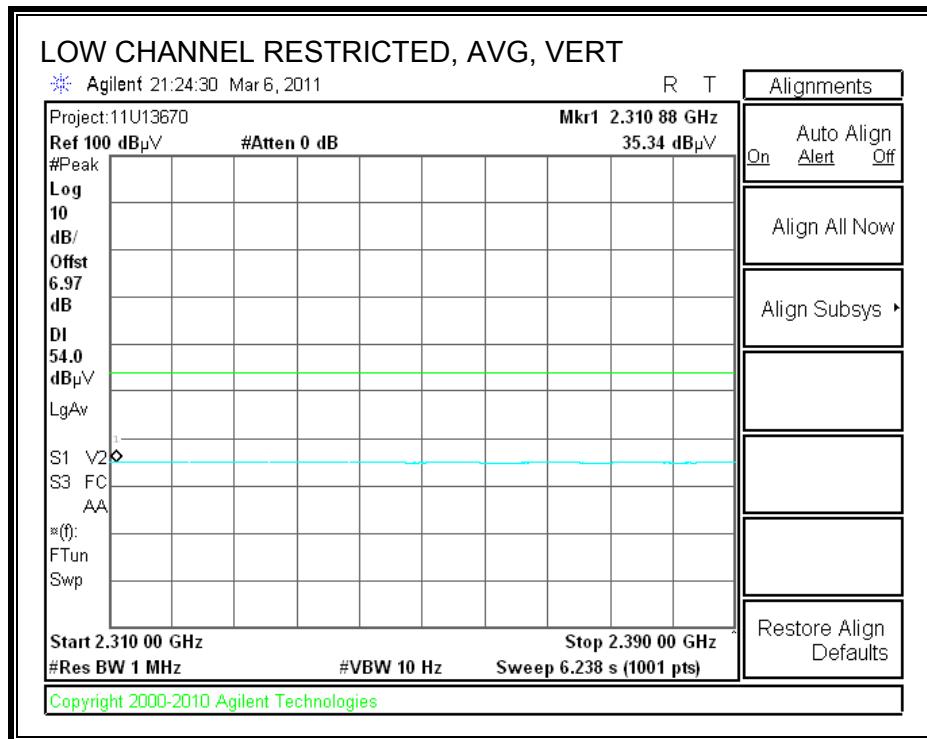
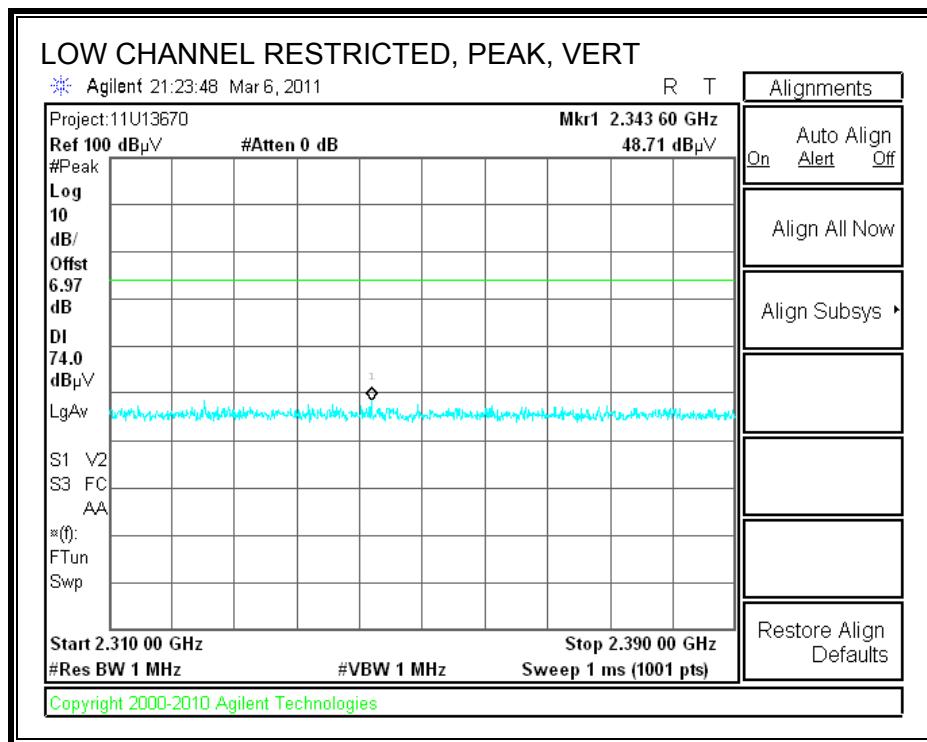
High Frequency Measurement Compliance Certification Services, Fremont 5m Chamber																																																																																																																																																																																																																																																																																																																																																																																																																																
<p>Company: KYOCRA WIRELESS Project #: 11U13670 Date: 2/6/2011 Test Engineer: MENGISTU MEKURIA Configuration: EUT ALONE Mode: TX, GFSK MODE</p> <p><b>Test Equipment:</b></p> <table border="1"> <tr> <td>Horn 1-18GHz</td> <td>Pre-amplifier 1-26GHz</td> <td>Pre-amplifier 26-40GHz</td> <td colspan="4">Horn &gt; 18GHz</td> <td>Limit</td> </tr> <tr> <td>T59; S/N: 3245 @3m</td> <td>T145 Agilent 3008A005</td> <td></td> <td colspan="4"></td> <td>FCC 15.209</td> </tr> <tr> <td colspan="15">Hi Frequency Cables</td> </tr> <tr> <td>3' cable 22807700</td> <td>12' cable 22807600</td> <td>20' cable 22807500</td> <td colspan="4"></td> <td>HPF</td> <td>Reject Filter</td> <td colspan="5">           Peak Measurements RBW=VBW=1MHz Average Measurements RBW=1MHz ; VBW=10Hz         </td> </tr> <tr> <td>3' cable 22807700</td> <td>12' cable 22807600</td> <td>20' cable 22807500</td> <td colspan="4"></td> <td></td> <td>R_001</td> <td colspan="5"></td> </tr> <tr> <th>f GHz</th> <th>Dist (m)</th> <th>Read Ph dBuV</th> <th>Read Avg dBuV</th> <th>AF dB/m</th> <th>CL dB</th> <th>Amp dB</th> <th>D Corr dB</th> <th>Fltr dB</th> <th>Peak dBuV/m</th> <th>Avg dBuV/m</th> <th>Pk Lim dBuV/m</th> <th>Avg Lim dBuV/m</th> <th>Pk Mar dB</th> <th>Avg Mar dB</th> <th>Notes (V/H)</th> </tr> <tr> <td colspan="15">Low Channel (2402 MHz)</td> </tr> <tr> <td>2.114</td> <td>3.0</td> <td>44.9</td> <td>31.5</td> <td>27.8</td> <td>3.6</td> <td>-35.3</td> <td>0.0</td> <td>0.0</td> <td>40.9</td> <td>27.5</td> <td>74</td> <td>54</td> <td>-33.1</td> <td>-26.5</td> <td>V</td> </tr> <tr> <td>4.804</td> <td>3.0</td> <td>40.7</td> <td>27.9</td> <td>32.8</td> <td>5.8</td> <td>-34.8</td> <td>0.0</td> <td>0.0</td> <td>44.4</td> <td>31.6</td> <td>74</td> <td>54</td> <td>-29.6</td> <td>-22.4</td> <td>V</td> </tr> <tr> <td>2.114</td> <td>3.0</td> <td>42.8</td> <td>30.2</td> <td>27.8</td> <td>3.6</td> <td>-35.3</td> <td>0.0</td> <td>0.0</td> <td>38.8</td> <td>26.3</td> <td>74</td> <td>54</td> <td>-35.2</td> <td>-27.7</td> <td>H</td> </tr> <tr> <td>4.804</td> <td>3.0</td> <td>38.3</td> <td>26.7</td> <td>32.8</td> <td>5.8</td> <td>-34.8</td> <td>0.0</td> <td>0.0</td> <td>42.0</td> <td>30.4</td> <td>74</td> <td>54</td> <td>-32.0</td> <td>-23.6</td> <td>H</td> </tr> <tr> <td colspan="15">Mid Channel (2441 MHz)</td> </tr> <tr> <td>2.152</td> <td>3.0</td> <td>44.5</td> <td>31.0</td> <td>27.8</td> <td>3.6</td> <td>-35.3</td> <td>0.0</td> <td>0.0</td> <td>40.6</td> <td>27.1</td> <td>74</td> <td>54</td> <td>-33.4</td> <td>-26.9</td> <td>V</td> </tr> <tr> <td>4.882</td> <td>3.0</td> <td>38.5</td> <td>26.4</td> <td>32.8</td> <td>5.8</td> <td>-34.9</td> <td>0.0</td> <td>0.0</td> <td>42.3</td> <td>30.2</td> <td>74</td> <td>54</td> <td>-31.7</td> <td>-23.8</td> <td>V</td> </tr> <tr> <td>2.153</td> <td>3.0</td> <td>42.9</td> <td>28.6</td> <td>27.9</td> <td>3.6</td> <td>-35.3</td> <td>0.0</td> <td>0.0</td> <td>39.1</td> <td>24.8</td> <td>74</td> <td>54</td> <td>-34.9</td> <td>-29.2</td> <td>H</td> </tr> <tr> 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colspan="3"></td> <td>Pk Mar</td> <td colspan="3">Margin vs. Peak Limit</td> </tr> <tr> <td>CL</td> <td colspan="3">Cable Loss</td> <td>HPF</td> <td colspan="3">High Pass Filter</td> <td colspan="3"></td> <td></td> <td colspan="3"></td> </tr> </table>															Horn 1-18GHz	Pre-amplifier 1-26GHz	Pre-amplifier 26-40GHz	Horn > 18GHz				Limit	T59; S/N: 3245 @3m	T145 Agilent 3008A005						FCC 15.209	Hi Frequency Cables															3' cable 22807700	12' cable 22807600	20' cable 22807500					HPF	Reject Filter	Peak Measurements RBW=VBW=1MHz Average Measurements RBW=1MHz ; VBW=10Hz					3' cable 22807700	12' cable 22807600	20' cable 22807500						R_001						f GHz	Dist (m)	Read Ph 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 Channel (2402 MHz)															2.114	3.0	44.9	31.5	27.8	3.6	-35.3	0.0	0.0	40.9	27.5	74	54	-33.1	-26.5	V	4.804	3.0	40.7	27.9	32.8	5.8	-34.8	0.0	0.0	44.4	31.6	74	54	-29.6	-22.4	V	2.114	3.0	42.8	30.2	27.8	3.6	-35.3	0.0	0.0	38.8	26.3	74	54	-35.2	-27.7	H	4.804	3.0	38.3	26.7	32.8	5.8	-34.8	0.0	0.0	42.0	30.4	74	54	-32.0	-23.6	H	Mid Channel (2441 MHz)															2.152	3.0	44.5	31.0	27.8	3.6	-35.3	0.0	0.0	40.6	27.1	74	54	-33.4	-26.9	V	4.882	3.0	38.5	26.4	32.8	5.8	-34.9	0.0	0.0	42.3	30.2	74	54	-31.7	-23.8	V	2.153	3.0	42.9	28.6	27.9	3.6	-35.3	0.0	0.0	39.1	24.8	74	54	-34.9	-29.2	H	4.882	3.0	38.3	26.0	32.8	5.8	-34.9	0.0	0.0	42.1	29.8	74	54	-31.9	-24.2	H	Hi Channel (2480 MHz)															2.160	3.0	45.1	31.6	27.9	3.6	-35.3	0.0	0.0	41.3	27.8	74	54	-32.7	-26.2	V	4.960	3.0	38.6	26.6	32.9	5.9	-34.9	0.0	0.0	42.5	30.5	74	54	-31.5	-23.5	V	2.160	3.0	42.6	29.7	27.9	3.6	-35.3	0.0	0.0	36.8	25.9	74	54	-35.2	-28.1	H	4.960	3.0	38.4	26.4	32.9	5.9	-34.9	0.0	0.0	42.3	30.3	74	54	-31.7	-23.7	H	Rev. 07.22.09															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									
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## 7.2.2. ENHANCED DATA RATE 8PSK MODULATION

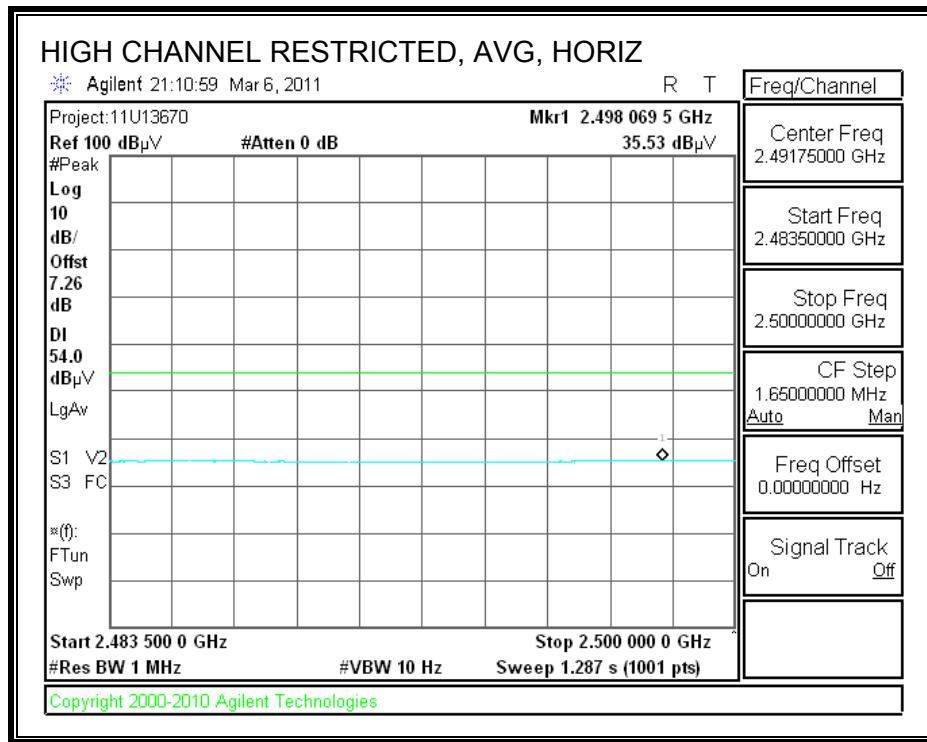
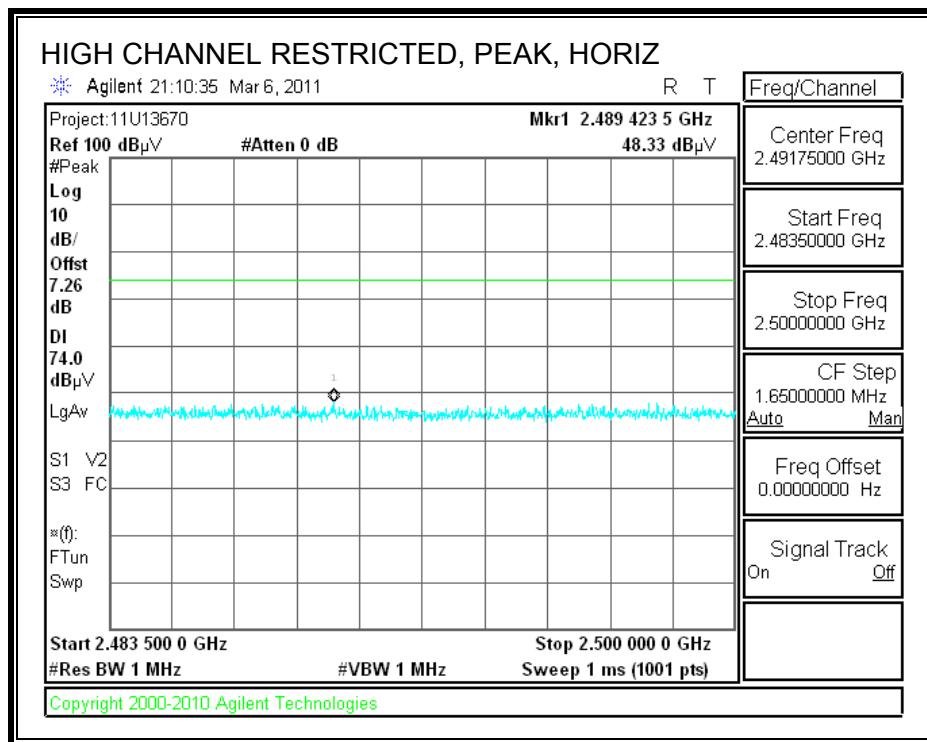
### RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



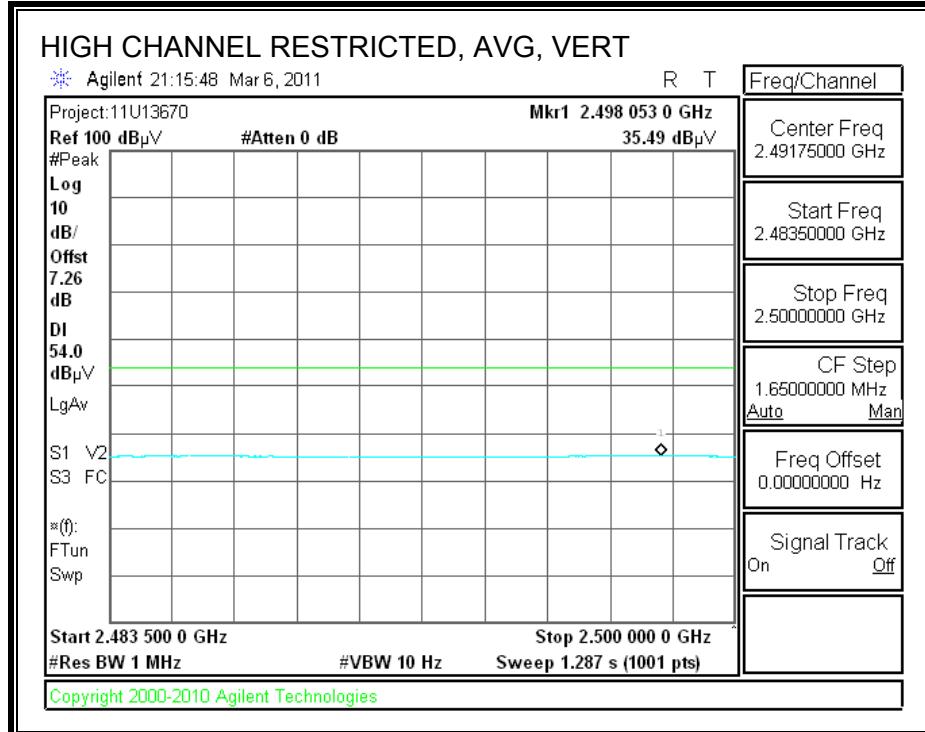
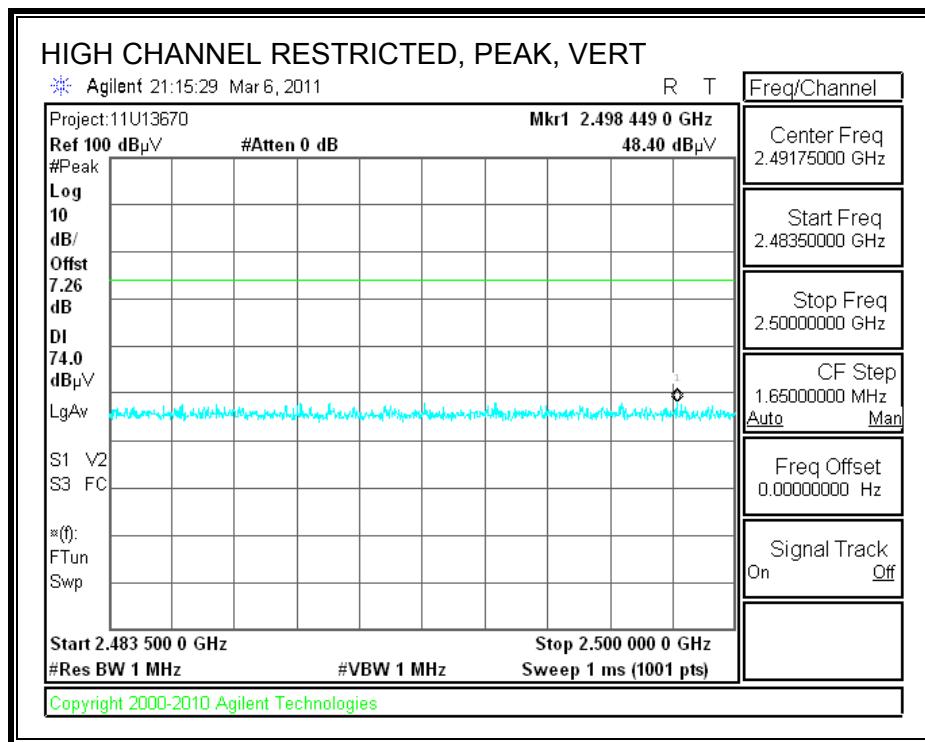
**RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)**



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



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

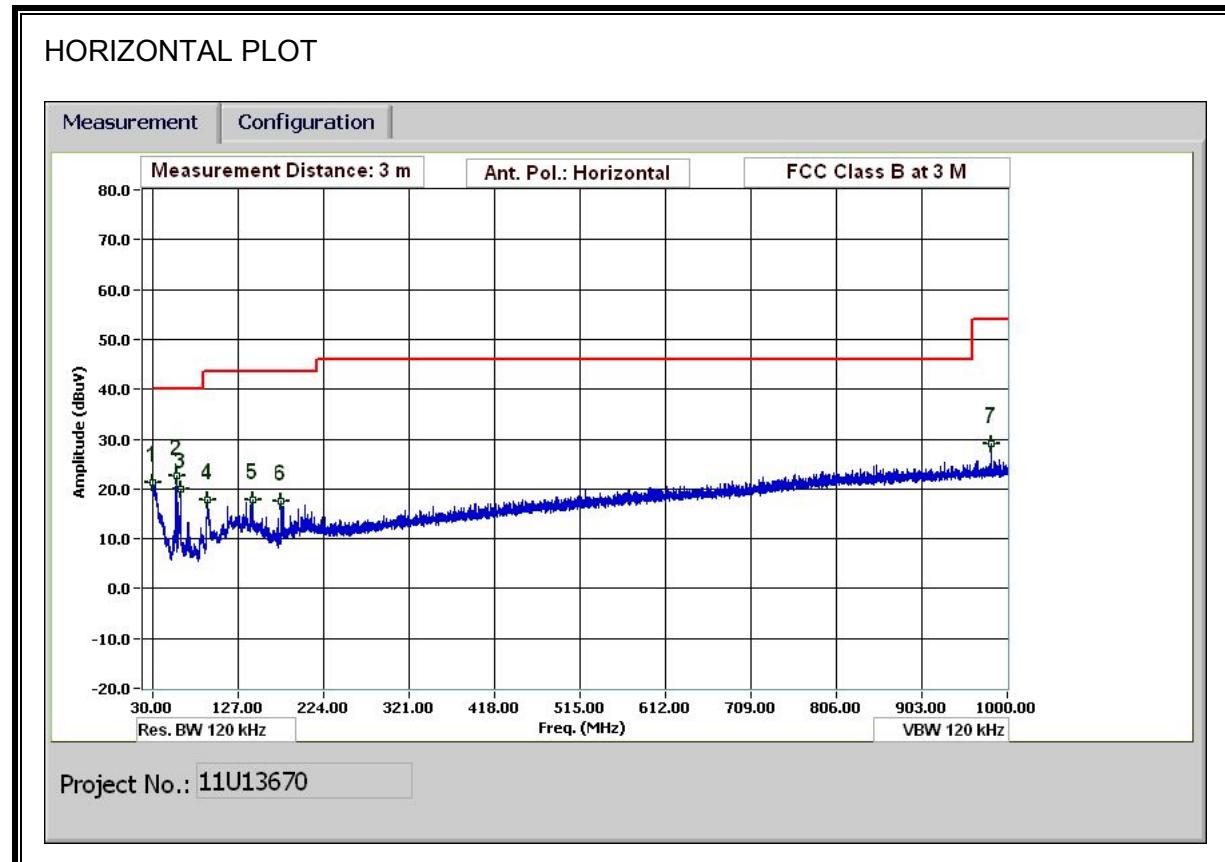


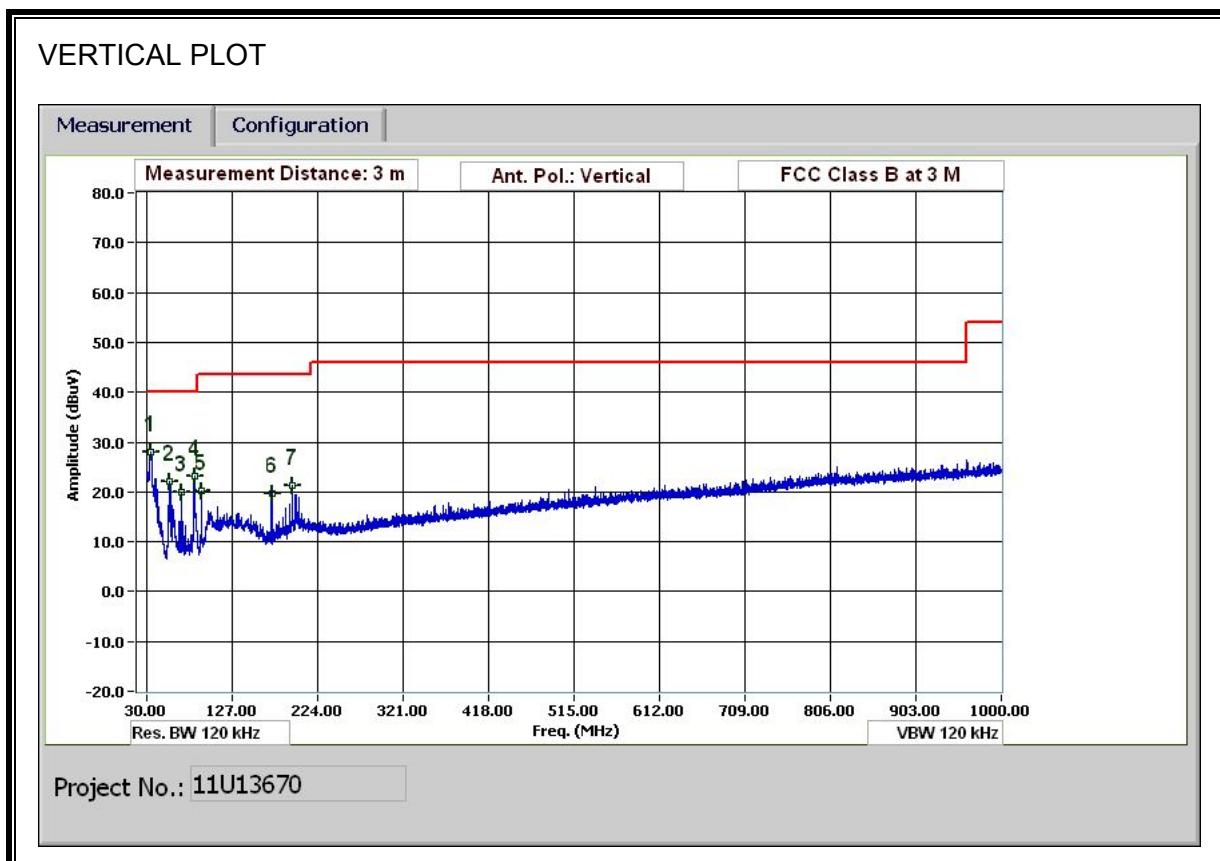
**HARMONICS AND SPURIOUS EMISSIONS**

High Frequency Measurement																		
Compliance Certification Services, Fremont 5m Chamber																		
Company:	KYOCERA WIRELESS																	
Project #:	11U13670																	
Date:	2/6/2011																	
Test Engineer:	MENGISTU MEKURIA																	
Configuration:	BUT ALONE																	
Mode:	TX, 8PSK MODE																	
<b>Test Equipment:</b>																		
Horn 1-18GHz			Pre-amplifier 1-26GHz			Pre-amplifier 26-40GHz			Horn > 18GHz			Limit						
T59; S/N: 3245 @3m			T145 Agilent 3008A005C									FCC 15.209						
Hi Frequency Cables																		
3' cable 22807700			12' cable 22807600			20' cable 22807500			HPF			Reject Filter						
3' cable 22807700			12' cable 22807600			20' cable 22807500						R_001						
<table border="1"> <thead> <tr> <th>Peak Measurements</th> </tr> <tr> <td>RBW=VBW=1MHz</td> </tr> </thead> </table> <table border="1"> <thead> <tr> <th>Average Measurements</th> </tr> <tr> <td>RBW=1MHz; VBW=10Hz</td> </tr> </thead> </table>															Peak Measurements	RBW=VBW=1MHz	Average Measurements	RBW=1MHz; VBW=10Hz
Peak Measurements																		
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<b>f</b>	<b>Dist</b>	<b>Read Ph</b>	<b>Read Avg</b>	<b>AF</b>	<b>CL</b>	<b>Amp</b>	<b>D Corr</b>	<b>Fltr</b>	<b>Peak</b>	<b>Avg</b>	<b>Pk Lim</b>	<b>Avg Lim</b>	<b>Pk Mar</b>	<b>Avg Mar</b>	<b>Notes</b>			
GHz	(m)	dBuV	dBuV	dB/m	dB	dB	dB	dB	dBuV/m	dBuV/m	dBuV/m	dBuV/m	dB	dB	(V/H)			
<b>Low Channel (2402 MHz)</b>																		
2.114	3.0	45.0	31.3	27.8	3.6	-35.3	0.0	0.0	41.1	27.3	74	54	-32.9	-26.7	V			
4.804	3.0	40.9	27.6	32.8	5.8	-34.8	0.0	0.0	44.6	31.3	74	54	-29.4	-22.7	V			
2.114	3.0	43.0	30.0	27.8	3.6	-35.3	0.0	0.0	39.0	26.0	74	54	-35.0	-28.0	H			
4.804	3.0	38.6	26.4	32.8	5.8	-34.8	0.0	0.0	42.3	30.1	74	54	-31.7	-23.9	H			
<b>Mid Channel (2441 MHz)</b>																		
2.152	3.0	44.7	30.7	27.8	3.6	-35.3	0.0	0.0	40.9	26.9	74	54	-33.1	-27.1	V			
4.882	3.0	38.8	26.1	32.8	5.8	-34.9	0.0	0.0	42.6	29.9	74	54	-31.4	-24.1	V			
2.153	3.0	43.1	28.4	27.9	3.6	-35.3	0.0	0.0	39.3	24.6	74	54	-34.7	-29.4	H			
4.882	3.0	38.7	25.8	32.8	5.8	-34.9	0.0	0.0	42.5	29.6	74	54	-31.5	-24.4	H			
<b>Hi Channel (2480 MHz)</b>																		
2.160	3.0	45.9	31.3	27.9	3.6	-35.3	0.0	0.0	42.1	27.5	74	54	-31.9	-26.5	V			
4.960	3.0	38.2	26.1	32.9	5.9	-34.9	0.0	0.0	42.1	30.0	74	54	-31.9	-24.0	V			
2.160	3.0	43.2	29.8	27.9	3.6	-35.3	0.0	0.0	39.4	26.0	74	54	-34.6	-28.0	H			
4.960	3.0	38.1	25.9	32.9	5.9	-34.9	0.0	0.0	42.0	29.8	74	54	-32.0	-24.2	H			
Rev. 07.22.09																		
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													

### 7.3. WORST-CASE BELOW 1 GHz

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



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

## HORIZONTAL AND VERTICA DATA

## 30-1000MHz Frequency Measurement Compliance Certification Services, Fremont 5m Chamber

Test Engr: Mengistu Mekuria  
Date: 03/04/11  
Project #: 11UL13670  
Company: Kyocera Wireless  
Test Target: FCC Class B  
Mode Oper: IX Worst Case

f	Measurement Frequency	Amp	Preamp Gain	Margin	Margin vs. Limit
Dist	Distance to Antenna	D Corr	Distance Correct to 3 meters		
Read	Analyzer Reading	Filter	Filter Insert Loss		
AF	Antenna Factor	Corr.	Calculated Field Strength		
CL	Cable Loss	Limit	Field Strength Limit		

f MHz	Dist (m)	Read dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Pad dB	Corr. dBuV/m	Limit dBuV/m	Margin dB	Ant. Pol V/H	Det. P/A/QP	Notes
35.04	3.0	39.1	18.0	0.5	29.7	0.0	0.0	28.0	40.0	-12.0	V	P	
56.521	3.0	43.3	7.9	0.6	29.6	0.0	0.0	22.2	40.0	-17.8	V	P	
69.722	3.0	40.5	8.3	0.7	29.6	0.0	0.0	19.9	40.0	-20.1	V	P	
84.602	3.0	44.4	7.5	0.8	29.6	0.0	0.0	23.2	40.0	-16.8	V	P	
92.163	3.0	40.9	8.1	0.9	29.6	0.0	0.0	20.3	43.5	-23.2	V	P	
171.726	3.0	37.7	10.1	1.2	29.2	0.0	0.0	19.7	43.5	-23.8	V	P	
195.367	3.0	37.2	11.6	1.3	28.9	0.0	0.0	21.2	43.5	-22.3	V	P	
30.72	3.0	30.4	20.0	0.5	29.7	0.0	0.0	21.3	40.0	-18.7	H	P	
57.961	3.0	43.8	7.9	0.7	29.6	0.0	0.0	22.7	40.0	-17.3	H	P	
61.321	3.0	40.9	7.9	0.7	29.6	0.0	0.0	19.9	40.0	-20.1	H	P	
91.803	3.0	38.6	8.0	0.9	29.6	0.0	0.0	17.9	43.5	-25.6	H	P	
143.165	3.0	33.0	13.0	1.1	29.3	0.0	0.0	17.7	43.5	-25.8	H	P	
175.446	3.0	35.6	10.0	1.2	29.2	0.0	0.0	17.6	43.5	-25.9	H	P	
982.239	3.0	31.9	22.4	3.2	28.4	0.0	0.0	29.1	54.0	-24.9	H	P	

Rev. 1.27.09

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

## 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 <sup>*</sup>	56 to 46 <sup>*</sup>
0.5-5	56	46
5-30	60	50

<sup>\*</sup> 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.

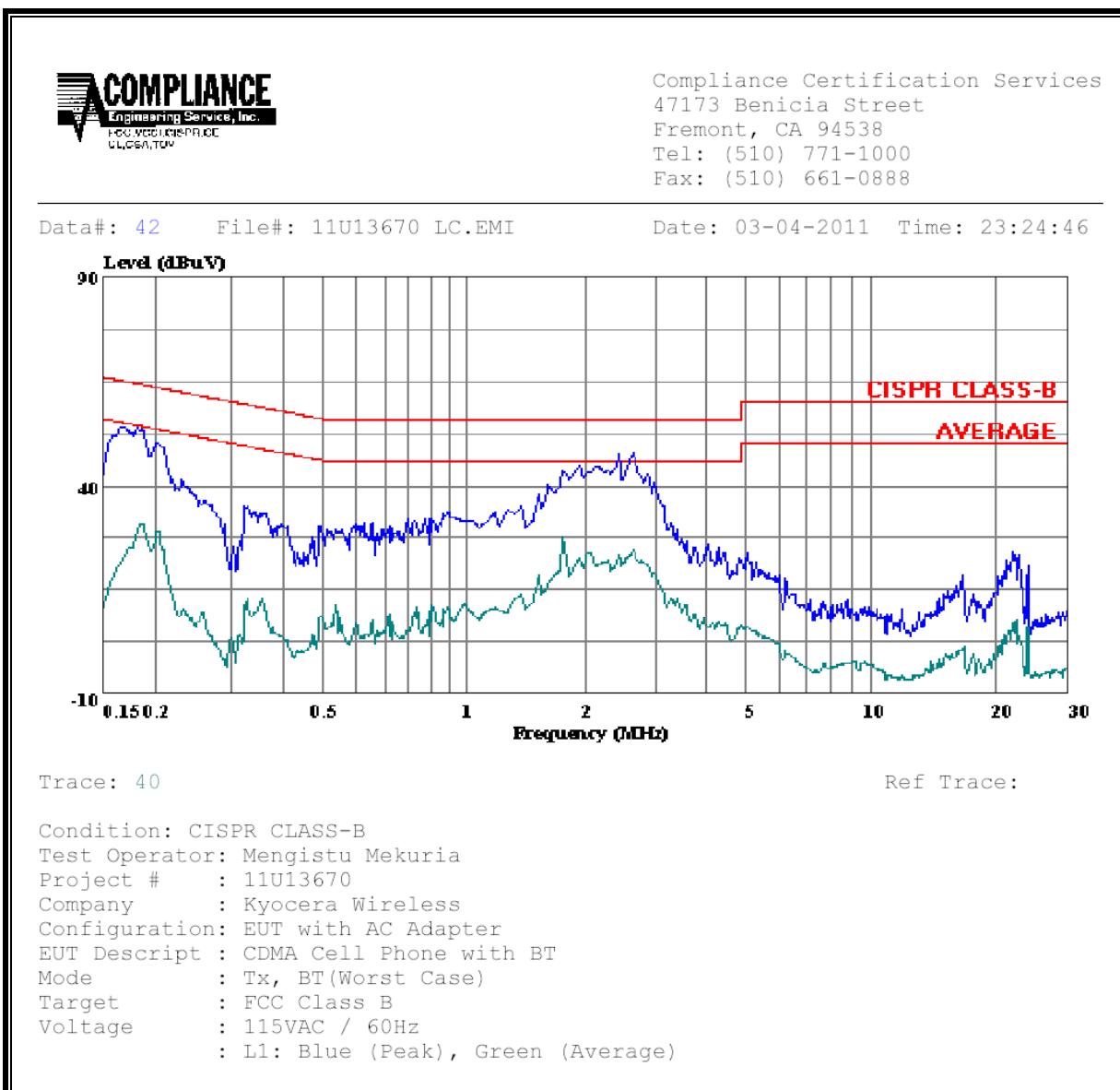
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

### RESULTS

**6 WORST EMISSIONS (EUT WITH AC ADAPTER)**

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
0.18	54.09	--	30.62	0.00	64.49	54.49	-10.40	-23.87	L1
0.20	50.25	--	28.83	0.00	63.57	53.57	-13.32	-24.74	L1
2.75	47.94	--	27.50	0.00	56.00	46.00	-8.06	-18.50	L1
0.25	38.55	--	21.71	0.00	61.82	51.82	-23.27	-30.11	L2
0.48	34.53	--	14.53	0.00	56.37	46.37	-21.84	-31.84	L2
1.99	42.95	--	18.72	0.00	56.00	46.00	-13.05	-27.28	L2
6 Worst Data									

**LINE 1 RESULTS**

**LINE 2 RESULTS**