

RADIATED SPURIOUS EMISSIONS PORTIONS OF FCC CFR47 PART 15 SUBPART C INDUSTRY CANADA RSS-210 ISSUE 7

CERTIFICATION TEST REPORT

FOR

TRI-BAND 1xRTT CDMA PHONE WITH BLUETOOTH

FCC MODEL NUMBER: K50-03 IC MODEL NUMBER: M1400

> FCC ID: OVFK50- 03 IC: 3572A- M1400

REPORT NUMBER: 09U12645-2

ISSUE DATE: JUNE 18, 2009

Prepared for KYOCERA WIRELESS CORP. 10300 CAMPUS POINT DRIVE SAN DIEGO, CA 92121, U.S.A.

Prepared by COMPLIANCE CERTIFICATION SERVICES 47173 BENICIA STREET FREMONT, CA 94538, U.S.A. TEL: (510) 771-1000 FAX: (510) 661-0888

R

NVLAP LAB CODE 200065-0

Revision History

Rev.	lssue Date	Revisions	Revised By
	06/18/09	Initial Issue	T. Chan

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME:	KYOCERA WIRELESS CORP. 10300 CAMPUS POINT DRIVE SAN DIEGO, CA 92121, USA	
EUT DESCRIPTION:	TRI-BAND 1xRTT CELLULAR PHO	ONE WITH BLUETOOTH
FCC MODEL NUMBER:	K50-03	
IC MODEL NUMBER:	M1400	
SERIAL NUMBER:	FFGL0000003074	
DATE TESTED:	JUNE 17-18, 2009	
	APPLICABLE STANDARDS	
ST	ANDARD	TEST RESULTS
	ant 4E Outline ant O	DACC (Dedicted Derticize)

CFR 47 Part 15 Subpart C	PASS (Radiated Portions)
INDUSTRY CANADA RSS-210 Issue 7 Annex 8	PASS (Radiated Portions)
INDUSTRY CANADA RSS-GEN Issue 2	PASS (Radiated Portions)

Compliance Certification Services, Inc. (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 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 CCS and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by 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 CCS By:

Tested By:

THU CHAN EMC MANAGER COMPLIANCE CERTIFICATION SERVICES menyizh mekende.

MENGISTU MEKURIA EMC ENGINEER COMPLIANCE CERTIFICATION SERVICES

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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 <u>http://www.ccsemc.com</u>.

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:

Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Gain (dB) 36.5 dBuV + 18.7 dB/m + 0.6 dB – 26.9 dB = 28.9 dBuV/m

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 Tri-band CDMA Phone that manufactured by Kyocera Wireless Corporations.

5.2. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes an internal antenna, with a maximum gain of 0.5dBi.

5.3. SOFTWARE AND FIRMWARE

The EUT driver and utility software installed in the host support equipment during testing was StarGraphitePassThru, rev. 1.0.0.1 and CSR Blue Suite (BtCliCtrl), rev. 2.0.0.0.

5.4. WORST-CASE CONFIGURATION AND MODE

The worst-case is, EUT with highest emissions. To determine the worst-case, the EUT was investigated for X, Y, and Z-Positions in both slide in and out condition, and the worst case among the above positions with AC/DC adapter. After the investigations, the worst-position turned out to be a slide in Z-position without AC adapter for both modulations.

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5.5. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

PERIPHERAL SUPPORT EQUIPMENT LIST								
Description Manufacturer Model Serial Number FCC ID								
AC/DC Adapter	Kyocera	TXTVL10119	915S-002Y	DoC				
HEADSET	N/A	N/A	2252	N/A				

I/O CABLES

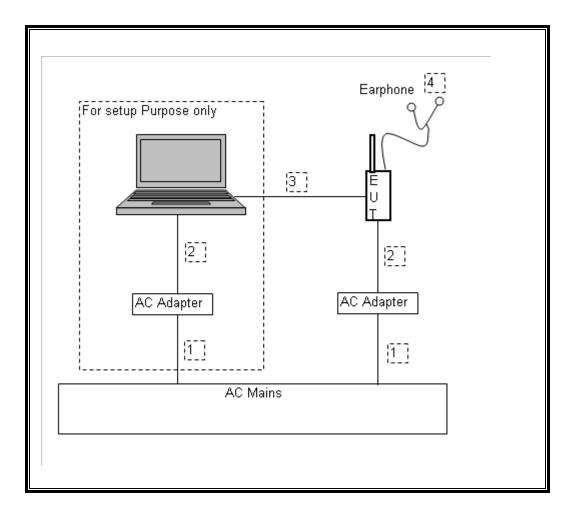
	I/O CABLE LIST										
Cable	Port	# of	Connector	Cable	Cable	Remarks					
No.		Identical	Туре	Туре	Length						
		Ports			_						
1	DC Input	1	Mini-USB	Un-Shielded	2.0 m	N/A					
2	AUDIO	1	Mini-Jack	Un-Shielded	1.8 m	Volume Control on the Cable					

TEST SETUP

The EUT is connected to a laptop computer via a USB cable to setup the modulation, channel and output power. After the setup is done, the laptop can be removed and the EUT can stand alone without operation interrupted.

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SETUP DIAGRAM FOR TESTS



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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				
Spectrum Analyzer 26.5 GHz	Agilent / HP	N9020A	C01178	10/23/09				
Preamplifier, 1300 MHz	Agilent / HP	8447D	C00885	12/16/09				
Antenna, Horn, 18 GHz	EMCO	3115	C00872	04/22/10				
Antenna, Bilog, 2 GHz	Sunol Sciences	JB1	C01011	01/14/10				
Preamplifier, 26.5 GHz	Agilent / HP	8449B	C01052	02/04/10				
Preamplifier, 26.5 GHz	Agilent / HP	8449B	C00749	02/04/10				
LISN, 10 kHz ~ 30 MHz	Solar	8012-50-R-24-BNC	N02481	10/29/09				
LISN, 30 MHz	FCC	LISN-50/250-25-2	N02625	10/29/09				
2.4 - 2.5 Reject Filter	Micro Tronics	BRM50702	N/A	N/A				

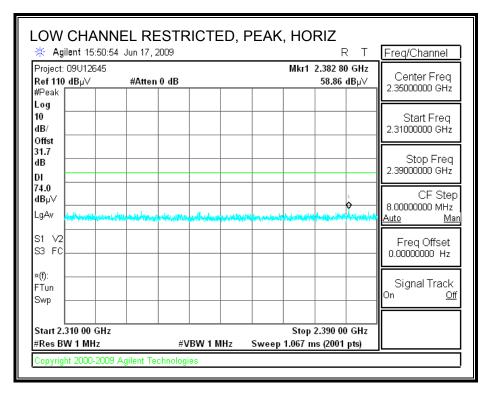
Page 9 of 31 COMPLIANCE CERTIFICATION SERVICES

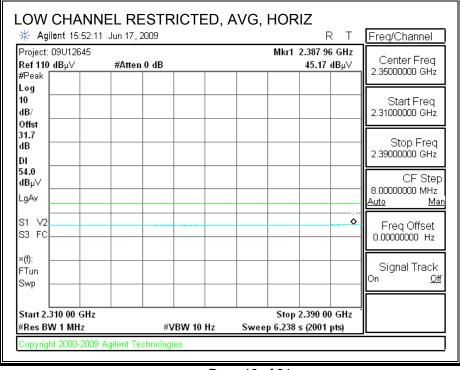
7. RADIATED TEST RESULTS

7.1. TRANSMITTER ABOVE 1 GHz

7.1.1. BASIC DATA RATE GFSK MODULATION

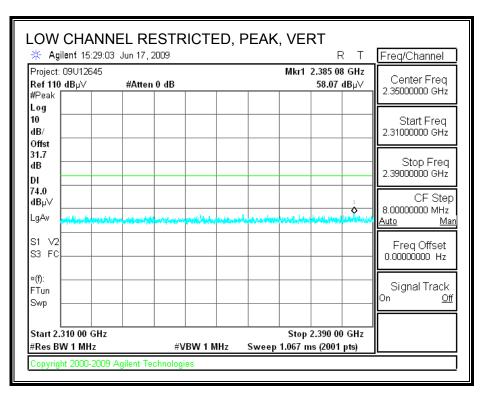
RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)

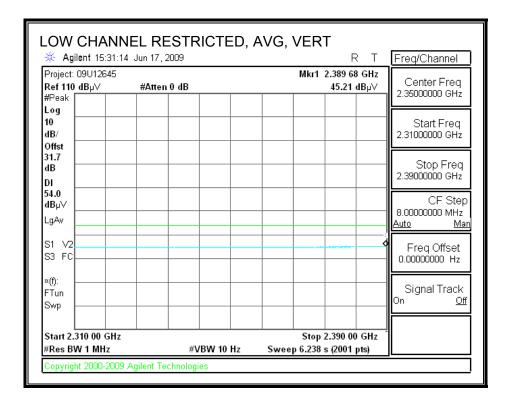




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RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

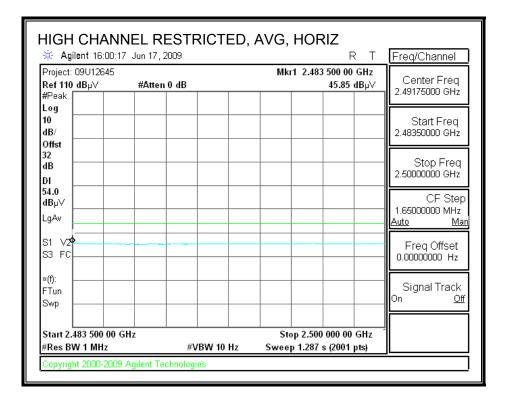




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RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)

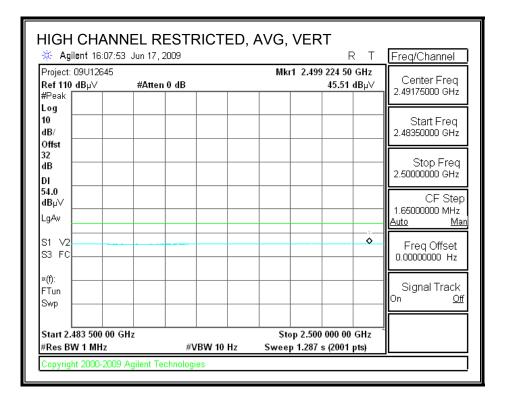
HIGH CHANN	NEL RESTRIC Jun 17, 2009	TED, PEAK	, HORIZ	Т	Freq/Channel
Project: 09∪12645 Ref 110 dB µ∨ #Peak	#Atten 0 dB	Mki	1 2.495 833 75 59.26 d		Center Freq 2.49175000 GHz
Log 10 dB/ Offst					Start Freq 2.48350000 GHz
32 dB DI					Stop Freq 2.5000000 GHz
74.0 dBµ∨ LgAv αλλάλωσημαλικά	and an and a strengt of a strengt of	n, of the which and instances of		entel darit d	CF Step 1.6500000 MHz <u>Auto Man</u>
S1 V2 S3 FC					Freq Offset 0.00000000 Hz
»(f): FTun Swp					Signal Track On <u>Off</u>
Start 2.483 500 00 G #Res BW 1 MHz	Hz #VBW 1		op 2.500 000 00 1.067 ms (2001		
Copyright 2000-2009	Agilent Technologies				



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RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)

🔆 Agilent 16:07	:03 Jun 17, 2009			RT	Freq/Channel
Project: 09∪12645 Ref 110 dB µ∨ #Peak	#Atten 0 dB		Mkr1 2.44	38 936 75 GHz 58.47 dBµ∨	Center Freq 2.49175000 GHz
Log 10 dB/ Offst					Start Freq 2.48350000 GHz
32 dB DI					Stop Freq 2.5000000 GHz
74.0 dBµ∨ LgAv platerenation	L.	denal Maple in the work	e dual considerationspo	al densities and maile starts	CF Step 1.65000000 MHz <u>Auto Mar</u>
S1 V2 S3 FC					Freq Offset 0.00000000 Hz
×(f): FTun Swp					Signal Track On
Start 2.483 500 00 #Res BW 1 MHz		BW 1 MHz	Stop 2.50 Sweep 1.067)0 000 00 GHz ms (2001 pts)	



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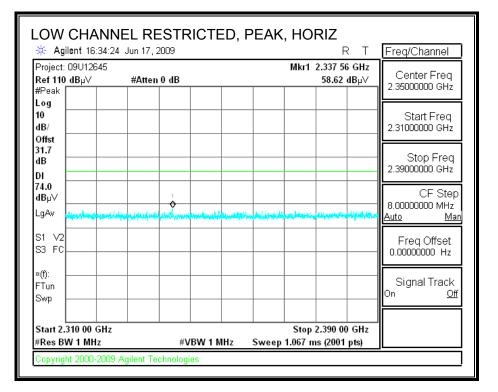
HARMONICS AND SPURIOUS EMISSIONS

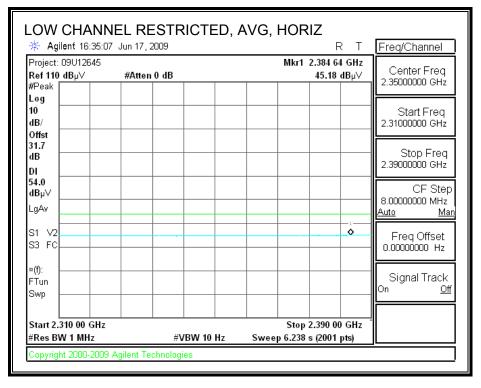
Compli	~		[,] Measurem Services, Fr		3m Ch	amber									
Compai	ny:		Kyocera												
Project			09U12645												
Date:			5/22/2009												
Test Er	igineer:		Mengistu Mel	kuria											
Configu	tration:		EUT Alone												
Mode:			TX GFSK												
Test Ec	nuipmen	<u>t:</u>													
н	lorn 1-	18GHz	Pre-ar	nplifer	1-26	GHz	Pre-am	plifer	26-40GH	z	H	orn > 180	GHz		Limit
T73; 1	S/N: 671	7 @3m	▼ T144 N	Aiteq 30	08A00	931 🗸				-				•	FCC 15.205
- Hi Fre	quency Cal	bles													
3'	cable 2	2807700	12' c	able 2	28076	500	20' ca	ble 22	2807500		HPF	Re	ject Filte	er	<u>ak Measurements</u> BW=VBW=1MHz
3' c	able 228	, 807700	- 12' ca	ıble 228	07600	•	20' cab	le 228(•			• R_	001	v	rage Measurements 7=1MHz ; VBW=10Hz
f	Dist	Read Pk	Read Avg.	AF	CL	Amp	D Corr	Fltr	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)
Low Cha	nnel, 240:	2MHz													
1.804	3.0	46.7	31.6	33.0	5.8	-36.5	0.0	0.0	49.1	33.9	74	54	- 24 9	- 20.1	V
4.804	3.0	48.1	32.5	33.0	5.8	-36.5	0.0	0.0	50.4	34.9	74	54	-23.6	-19.1	H
Mid Chai 4.882	nnel, 244 3.0	41.3	28.0	33.1	5.8	-36.5	0.0	0.0	43.8	30.5	74	54	-30.2	-23.5	v
1.882	3.0	41.3	28.9	33.1	5.8	-36.5	0.0	0.0	43.8	30.5	74 74	54 54	-30.2	-23.5 -22.6	Y H
	annel, 248		205			-502		0.0					-202	-440	
1.960	3.0	40.0	26.8	33.2	59	-36.5	0.0	0.0	42.6	29.5	74	54	- 31 A	-24.5	v
4.960	3.0	40.1	27.8	33.2	59	-36.5	0.0	0.0	42.7	30.4	74	54	-31.3	-23.6	H
		N41			l -1										
		INO Other	emissios were	aetected	anove s	ystem noi	lse 1100r	L	<u>l</u>	L	l				
Rev. 03.0	2.00														
	J.U7														
	f	Measureme	ent Frequency	v		Amp	Preamp (Gain				Avg Lim	Average I	Field Strengt	h Limit
	1 5			·					ct to 3 mete	ers			0	d Strength L	
						Avg								0	
		Analyzer K	, , , , , , , , , , , , , , , , , , , ,				Average Field Strength @ 3 m Avg Mar Margin vs. A Calculated Peak Field Strength Pk Mar Margin vs. P					-			
	Read	-	0			Peak	Calculate	d Peal	k Field Stre	nath		Pk Mar	Margin ve	: Peak Limit	
		Analyzer K Antenna Fa Cable Loss	actor			Peak HPF	Calculate High Pas			ngth		Pk Mar	Margin vs	s. Peak Limit	t

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7.1.2. ENHANCED DATA RATE 8PSK MODULATION

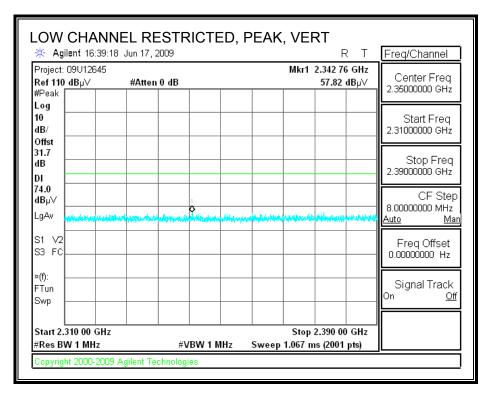
RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)

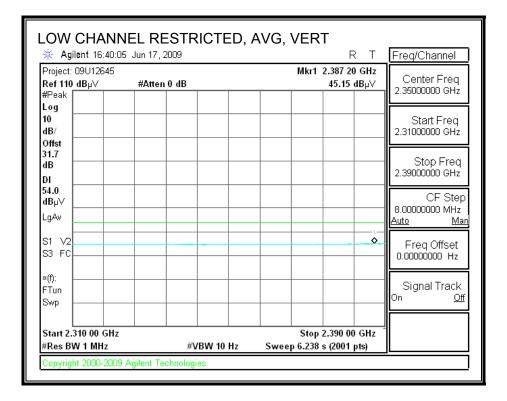




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RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

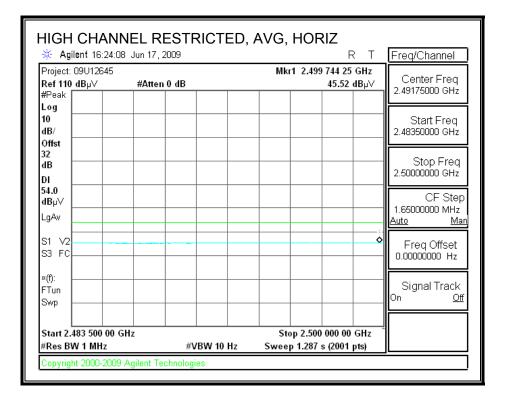




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RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)

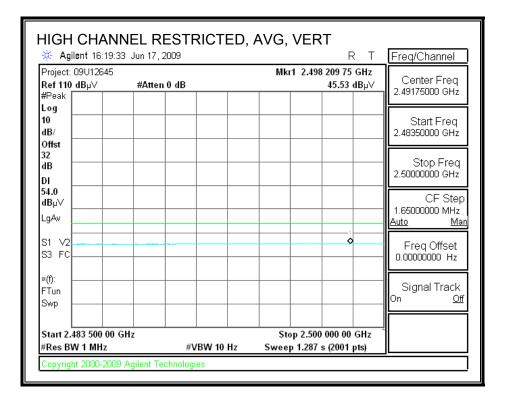
HIGH CHANNEI		D, PEAK, HORIZ	T Freq/Channel
Project: 09U12645 Ref 110 dB µ∨ # #Peak	Atten 0 dB	Mkr1 2.496 997 00 59.51	Contor Frod
Log 10 dB/ Offst			Start Freq 2.48350000 GHz
32 dB DI			Stop Freq 2.50000000 GHz
74.0 dBμ∨ LgAv τοιδιατοία	Chilly State on the State of th	uhimis saura ing sisan sia a ani	CF Step 1.65000000 MHz Auto Man
S1 V2 S3 FC			Freq Offset 0.00000000 Hz
×(f): FTun Swp			Signal Track On <u>Off</u>
Start 2.483 500 00 GHz #Res BW 1 MHz	#VBW 1 MH	Stop 2.500 000 00 Sweep 1.067 ms (2001	



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RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)

🔆 Agilent 16:19:	09 Jun 17, 2009			R T	Freq/Channel
Project: 09U12645 Ref 110 dB µ∨ #Peak	#Atten 0 dB		Mkr1 2.49	7 005 25 GHz 58.73 dBµ∨	Center Freq 2.49175000 GHz
Log 10 dB/ Offst					Start Freq 2.48350000 GHz
32 dB DI					Stop Freq 2.5000000 GHz
74.0 dBµ∨ LgAv reutadete	ethiqulusqua.chtuqusion.dhi-usqqaa	بعساريعة والجزيز ومعارياتهم	hore and the states of		CF Step 1.6500000 MHz Auto Mar
S1 V2 S3 FC					Freq Offset 0.00000000 Hz
»(f): FTun Swp					Signal Track
Start 2.483 500 00 #Res BW 1 MHz		W 1 MHz S	Stop 2.50 Sweep 1.067 I	0 000 00 GHz ns (2001 pts)	



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HARMONICS AND SPURIOUS EMISSIONS

Complia	~		⁷ Measurem Services, Fr		3m Ch	amber									
Compan	ıy:		Kyocera												
Project	#:		09U12645												
Date:			5/22/2009												
Test En	gineer:		Mengistu Me	kuria											
Configu	ration:		EUT Alone												
Mode:			TX 8PSK												
Test Eq	uipmen	<u>t:</u>													
н	orn 1-	18GHz	Pre-ar	mplifer	1-260	Hz	Pre-am	plifer	26-40GH	z	н	orn > 180	GHz		Limit
T73; 9	S/N: 671	7 @3m	▼ T144 M	Miteq 300	08A009	31 🗸				-				-	FCC 15.205 🗸
 □ Hi Free	quency Cal	oles —				_									·
		2807700	12' 0	able 22	28076	00	20' ca	ble 22	807500		HPF	Re	ject Filte	er <u>Pe</u>	ak Measurements
													Joor Inco	R	BW=VBW=1MHz
3. c	able 228	.07700	• 12' ca	able 2280	07600	•	20' cab	le 228(•			• R_	001		rage Measurements =1MHz ; VBW=10Hz
f	Dist	Read Pk	Read Avg.	AF	CL	Amp	D Corr	Fltr	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)
Low Char		,													
4.804	3.0	43.1	27.1	33.0	5.8	-36.5	0.0	0.0	45.4	29.4	74	54	-28.6	-24.6	<u>v</u>
	3.0	43.6	27.4	33.0	5.8	-36.5	0.0	0.0	46.0	29.7	74	54	-28.0	-24.3	Н
				+	5.8	-36.5	0.0	0.0	45.1	29.0	74	54	-28.9	-25.0	v
Mid Chan			26.6					0.0					-205		
Mid Chan 4.882	mel, 2441 3.0 3.0	42.6 42.0	26.6 26.8	33.1 33.1	5.8		0.0	0.0	44.5	29.3	74	54	-29.5	-24.7	н
Mid Chan 4.882 4.882	3.0 3.0	42.6 42.0		33.1 33.1		-36.5	0.0	0.0	44.5	29.3	74	54	-29 <i>.</i> 5	-24.7	Н
4.804 Mid Chan 4.882 4.882 High Cha 4.960	3.0 3.0 nme1, 248 3.0	42.6 42.0 OMHz 41.8	26.8 26.4	33.1 33.2	5.8 5.9	-36.5 -36.5	0.0	0.0	44.4	29.0	74	54	-29.6	-25.0	v
Mid Chan 4.882 4.882 High Cha	3.0 3.0 nnel, 248	42.6 42.0 OMHz	26.8	33.1	5.8	-36.5									
Mid Chan 4.882 4.882 High Cha 4.960	3.0 3.0 nme1, 248 3.0	42.6 42.0 0MHz 41.8 42.3	26.8 26.4 26.4	33.1 33.2 33.2	5.8 5.9 5.9	-36.5 -36.5 -36.5	0.0 Q.O	0.0	44.4	29.0	74	54	-29.6	-25.0	v
Mid Chan 4.882 4.882 High Cha 4.960	3.0 3.0 nme1, 248 3.0	42.6 42.0 0MHz 41.8 42.3	26.8 26.4	33.1 33.2 33.2	5.8 5.9 5.9	-36.5 -36.5 -36.5	0.0 Q.O	0.0	44.4	29.0	74	54	-29.6	-25.0	v
Mid Chan 4.882 4.882 High Cha 4.960	3.0 3.0 mmel, 248 3.0 3.0	42.6 42.0 0MHz 41.8 42.3	26.8 26.4 26.4	33.1 33.2 33.2	5.8 5.9 5.9	-36.5 -36.5 -36.5	0.0 Q.O	0.0	44.4	29.0	74	54	-29.6	-25.0	v
Mid Chan 4.882 4.882 High Cha 4.960 4.960	3.0 3.0 mmel, 248 3.0 3.0	42.6 42.0 0MHz 41.8 42.3	26.8 26.4 26.4	33.1 33.2 33.2	5.8 5.9 5.9	-36.5 -36.5 -36.5	0.0 Q.O	0.0	44.4	29.0	74	54	-29.6	-25.0	v
Mid Chan 4.882 4.882 High Cha 4.960 4.960	3.0 3.0 mmel, 248 3.0 3.0	42.6 42.0 0MHz 41.8 42.3 No other	26.8 26.4 26.4	33.1 33.2 33.2 detected	5.8 5.9 5.9 above sy	-36.5 -36.5 -36.5	0.0 Q.O	0.0	44.4	29.0	74	54 54	-29.6 -29.1	-25.0	V H
Mid Chan 4.882 4.882 High Cha 4.960 4.960	3.0 3.0 mnel, 248 3.0 3.0 3.0	42.6 42.0 0MHz 41.8 42.3 No other	26.8 26.4 26.4 emissios were ent Frequency	33.1 33.2 33.2 detected	5.8 5.9 5.9 above sy	-36.5 -36.5 -36.5 /stem noi	0.0 0.0 se floor	0.0 0.0 Jain	44.4	29.0 29.0	74	54 54 Avg Lim	-29.6 -29.1 Average I	-25.0 -25.0	V H
Mid Chan 4.882 4.882 High Cha 4.960 4.960	3.0 3.0 3.0 3.0 3.0 3.0 3.09 f Dist	42.6 42.0 0MHz 41.8 42.3 No other	26.8 26.4 26.4 emissios were ent Frequenc	33.1 33.2 33.2 detected	5.8 5.9 5.9 above sy	-36.5 -36.5 -36.5 /stem noi	0.0 0.0 se floor Preamp (Distance	0.0 0.0 Jain Corre	44.4 44.9	29.0 29.0	74	54 54 Avg Lim Pk Lim	-29.6 -29.1 Average I Peak Fiel-	-25.0 -25.0 Field Strengt	V H
Mid Chan 4.882 4.882 High Cha 4.960 4.960	3.0 3.0 3.0 3.0 3.0 3.0 3.09 f Dist	42.6 42.0 0MHz 41.8 42.3 No other of Measurement Distance to	26.8 26.4 26.4 emissios were ent Frequenc Antenna eading	33.1 33.2 33.2 detected	5.8 5.9 5.9 above sy	-36.5 -36.5 -36.5 ////////////////////////////////////	0.0 0.0 se floor Preamp (Distance Average	0.0 0.0 Gain Corre	44.A 44.9	29.0 29.0 ers 3 m	74 74	54 54 Avg Lim Pk Lim Avg Mar	-29.6 -29.1 Average I Peak Fiel- Margin vs	-25.0 -25.0 Field Strengt	H H h Limit imit

7.2. WORST-CASE RECEIVER ABOVE 1 GHz

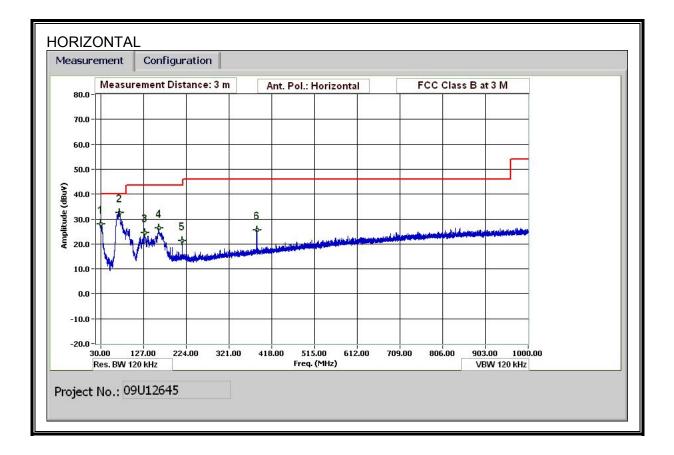
Note: No emissions above the system noise floor detected for receiver above 1GHz.

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7.3. WORST-CASE BELOW 1 GHz

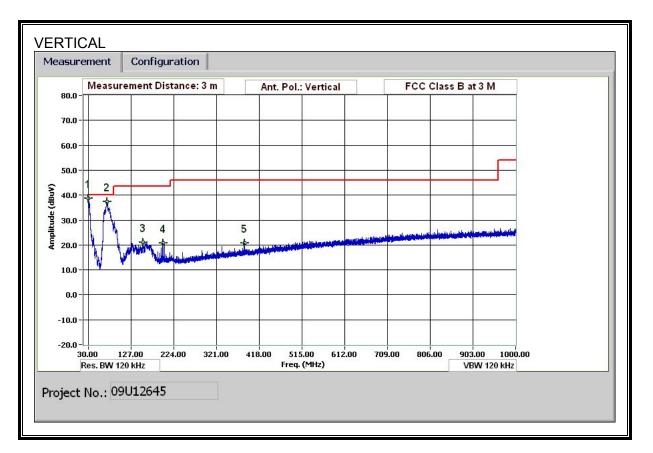
SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, HORIZONTAL)

<u>PLOT</u>



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



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<u>DATA</u>

Test Engr:		Megistu l	Mekuria										
Date:													
Project #:		09U1264	02/12/09 09U12645										
Company:		Kyocera Wireless Tri-Band Cell Phone with Bluetooth hK50-03											
EUT Descr													
EUT M/N:													
Test Targe	t:	FCC Cla	CC Class B										
Mode Ope		Tx Bluetooth (Worst-Case)											
	f	Measurem			Amp	Preamp (Gain			Margin	Margin vs	Limit	
	Dist	Distance t	-		D Corr Distance Correct to 3 meters					~ •	Ū		
	Read	Analyzer l	Reading		Filter	Filter Ins	ert Loss						
	AF	Antenna F	-		Corr.	Calculate	d Field S	trength					
	CL	Cable Loss			Limit	Limit Field Strength Limit							
							-						
f	Dist	Read	AF	CL	Amp	D Corr	Filter	Согт.	Limit	Margin	Ant. Pol.	Det.	Notes
MHz	(m)	dBuV	dB/m	dB	dB	dB	dB	dBuV/m	dBuV/m	dB	V/H	P/A/QP	
30.120	3.0	35.8	20.0	0.5	28.4	0.0	0.0	28.0	40.0	-12.0	Н	Р	
72.602	3.0	52.4	7.9	0.7	28.3	0.0	0.0	32.7	40.0	-7.4	H	Р	
130.204	3.0	38.1	13.5	1.1	28.3	0.0	0.0	24.4	43.5	-19.1	H	Р	
161.645	3.0	42.0	11.5	1.1	28.2	0.0	0.0	26.4	43.5	-17.1	H	Р	
214.808	3.0	36.2	11.9	1.3	28.2	0.0	0.0	21.2	43.5	-22.3	H	Р	
	3.0	37.2	14.7	1.8	28.1	0.0	0.0	25.5	46.0	-20.5	H	Р	
	3.0	46.6	19.9	0.5	28.4	0.0	0.0	38.7	40.0	-1.3	V	Р	
384.015 30.360	3.0	57.1	7.9	0.7	28.3	0.0	0.0	37.4	40.0	-2.6	V	Р	
30.360 72.362	···· \$ ·····	35.9	12.2	1.1	28.3	0.0	0.0	20.9	43.5	-22.6	V	Р	
30.360 72.362 154.805	3.0			1.2	28.2	0.0	0.0	20.8	43.5	-22.7	V	Р	
30.360 72.362 154.805 199.087	3.0 3.0	35.8	11.9				0.0	20.8	46.0	-25.2	v	P	
30.360 72.362 154.805 199.087 384.015	3.0 3.0 3.0	35.8 32.4	14.7	1.8	28.1	0.0		¢				۵	
30.360 72.362 154.805 199.087	3.0 3.0	35.8			28.1 28.3 28.4	0.0 0.0 0.0	0.0 0.0 0.0	35.6 35.8	40.0 40.0	-4.4 -4.2	V V	QP QP	

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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.

<u>RESULTS</u>

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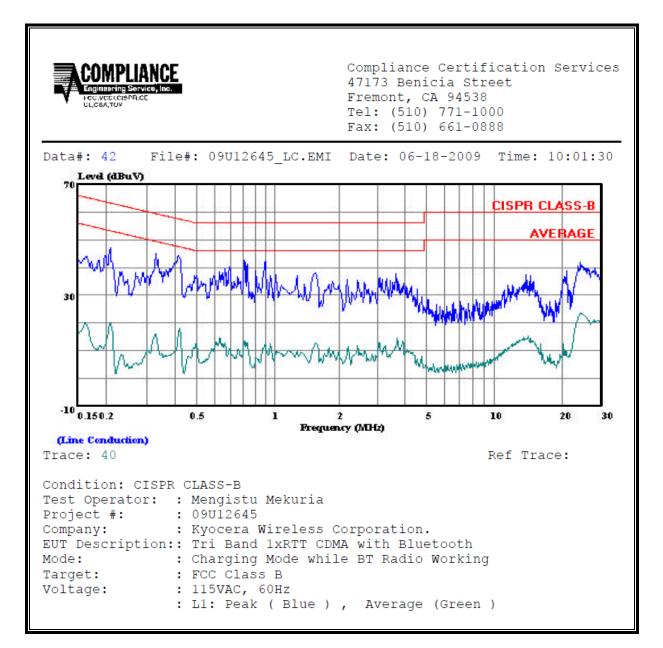
6 WORST EMISSIONS

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	CONDUCTED EMISSIONS DATA (115 VAC 60Hz)											
Freq.		Reading		Closs	Limit	EN_B	Marg	Remark				
(MHz)	PK (dBuV)	QP (dBuV)	AV (dBuV)	(dB)	QP	AV	QP (dB)	AV(dB)	L1/L2			
0.33	45.07		16.03	0.00	59.45	49.45	-14.38	-33.42	L1			
0.42	44.40		17.90	0.00	57.55	47.55	-13.15	-29.65	L1			
0.81	42.63		13.48	0.00	56.00	46.00	-13.37	-32.52	L1			
0.33	45.66		24.99	0.00	59.45	49.45	-13.79	-24.46	L2			
0.42	46.71		26.86	0.00	57.43	47.43	-10.72	-20.57	L2			
0.81	43.15		20.97	0.00	56.00	46.00	-12.85	-25.03	L2			
6 Worst I	Data											

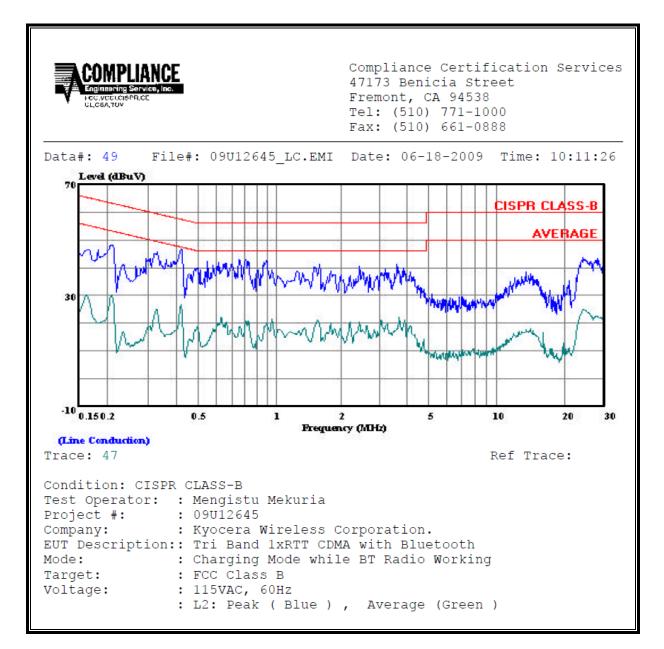
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LINE 1 RESULTS



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LINE 2 RESULTS



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