



**FCC CFR47 PART 22H AND PART 24E  
CERTIFICATION TEST REPORT**

**FOR**

**DUAL BAND 1X RTT CDMA PHONE WITH BLUETOOTH**

**MODEL NUMBER: SCP-2700**

**FCC ID: V65SCP-27H**

**REPORT NUMBER: 08U12291-1**

**ISSUE DATE: DECEMBER 18, 2008**

*Prepared for*  
**KYOCERA SANYO TELECOM, INC.  
6800 COLLEGE BLVD. SUITE 620  
OVERLAND PARK, KANSAS 66211, U.S.A.**

*Prepared by*  
**COMPLIANCE CERTIFICATION SERVICES  
47173 BENICIA STREET  
FREMONT, CA 94538, USA  
TEL: (510) 771-1000  
FAX: (510) 661-0888**



**NVLAP LAB CODE 200065-0**

Revision History

Rev.	Issue Date	Revisions	Revised By
---	12/18/08	Initial Issue	T. Chan

## TABLE OF CONTENTS

<b>1. ATTESTATION OF TEST RESULTS</b>	<b>4</b>
<b>2. TEST METHODOLOGY</b>	<b>5</b>
<b>3. FACILITIES AND ACCREDITATION</b>	<b>5</b>
<b>4. CALIBRATION AND UNCERTAINTY</b>	<b>5</b>
4.1. MEASURING INSTRUMENT CALIBRATION	5
4.2. MEASUREMENT UNCERTAINTY	5
<b>5. EQUIPMENT UNDER TEST</b>	<b>6</b>
5.1. DESCRIPTION OF EUT	6
5.2. MAXIMUM OUTPUT POWER	6
5.3. SOFTWARE AND FIRMWARE	6
5.4. WORST-CASE CONFIGURATION AND MODE	7
5.5. DESCRIPTION OF TEST SETUP	8
<b>6. TEST AND MEASUREMENT EQUIPMENT</b>	<b>10</b>
<b>7. LIMITS AND RESULTS</b>	<b>11</b>
7.1. RADIATED OUTPUT POWER	11
7.2. FIELD STRENGTH OF SPURIOUS EMISSION	14
<b>8. SETUP PHOTOS</b>	<b>18</b>

## 1. ATTESTATION OF TEST RESULTS

**COMPANY NAME:** KYOCERA SANYO TELECOM, INC.  
6800 COLLEGE BLVD. SUITE 620  
OVERLAND PARK, KANSAS 66211, U.S.A.

**EUT DESCRIPTION:** DUAL BAND 1xRTT CDMA PHONE WITH BLUETOOTH

**MODEL:** SCP-2700

**SERIAL NUMBER:** A00000012FDC422

**DATE TESTED:** DECEMBER 16 AND 17, 2008

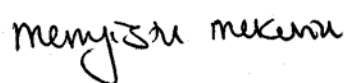
APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC PART 22 SUBPART H	PASS
FCC PART 24 SUBPART E	(Radiated Only)

Compliance Certification Services, Inc. (CCS) tested the above equipment in accordance with the requirements set forth in the above standards. All expressions of Pass/Fail in this report are opinions expressed by CCS based on interpretations of the test results. 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:



THU CHAN  
EMC SUPERVISOR  
COMPLIANCE CERTIFICATION SERVICES

MENGISTU MEKURIA  
EMC ENGINEER  
COMPLIANCE CERTIFICATION SERVICES

## 2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with TIA/EIA 603C (2004), FCC CFR 47 Part 2, FCC CFR 47 Part 22H, 24E.

## 3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 47173 Benicia Street, Fremont, California, USA. The sites are constructed in conformance with the requirements of ANSI C63.4, ANSI C63.7 and CISPR Publication 22. All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

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
Radiated Emission, Above 2000 MHz	+/- 4.3 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 Dual Band 1xRTT CDMA Phone with bluetooth that manufactures by Kyocera Sanyo Telecom, Inc.

### 5.2. MAXIMUM OUTPUT POWER

The transmitter has a maximum peak ERP and EIRP output powers as follows:

824 to 849 MHz Authorized Band

Frequency Range (MHz)	Modulation	ERP Peak Power (dBm)	ERP Peak Power (mW)
Low CH - 824.70	CDMA2000	25.9	389.0
Mid CH - 836.52		26.2	416.9
High CH - 848.31		26.7	467.7

1850 to 1910 MHz Authorized Band

Frequency Range (MHz)	Modulation	EIRP Peak Power (dBm)	EIRP Peak Power (mW)
Low CH - 1851.25	CDMA2000	26.9	489.8
Mid CH - 1880.00		27.4	549.5
High CH - 1908.75		27.3	537.0

### 5.3. SOFTWARE AND FIRMWARE

The EUT is linked with Agilent Communication Test Set.

## 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 AC/DC adapter, after the investigations, the worst-position to be the Z and Y-position with AC/DC adapter for Cell and PCS bands respectively.

### PROCEDURE USED TO ESTABLISH TEST SIGNAL

#### **3G-CDMA2000 1xRTT**

This procedure assumes the Agilent 8960 Test Set has the following applications installed and with valid license.

<u>Application</u>	<u>Rev, License</u>
CDMA2000 Mobil Test	B.10.11, L

#### 1xRTT

- Call Setup > Shift & Preset
- Protocol Rev > 6 (IS-2000-0)
- Radio Config (RC) > RC3 (Fwd3, Rvs3)
- FCH Service Option (SO) Setup > 32(+F-SCH)
- Traffic Data Rate > Full
- TDSO SCH Info > F-SCH Parameters > F-SCH Data Rate > 153.6 kbps  
> R-SCH Parameters > R-SCH Data Rate > 153.6 kbps
- Cell Info > Cell Parameters > System ID (SID) > 1 AND 2  
> Network ID (NID) > 65535

Once "Active Cell" show "Connected " then change "Rvs Power Ctrl" from "Active bits" to "**All Up bits**" to get the maximum power.

Worst-case Measurement Result @ Low, Middle and High Channel

Worst-case Measurement Result for Low, Middle and High Channel under Radio Configuration RC3 and Service Option 32(+F-SCH).

## 5.5. DESCRIPTION OF TEST SETUP

### SUPPORT EQUIPMENT

PERIPHERAL SUPPORT EQUIPMENT LIST				
Description	Manufacturer	Model	Serial Number	FCC ID
AC/DC Adapter	SANYO	SCP-19ADT	4808B	DoC
Earphone	N/A	N/A	N/A	N/A

### I/O CABLES

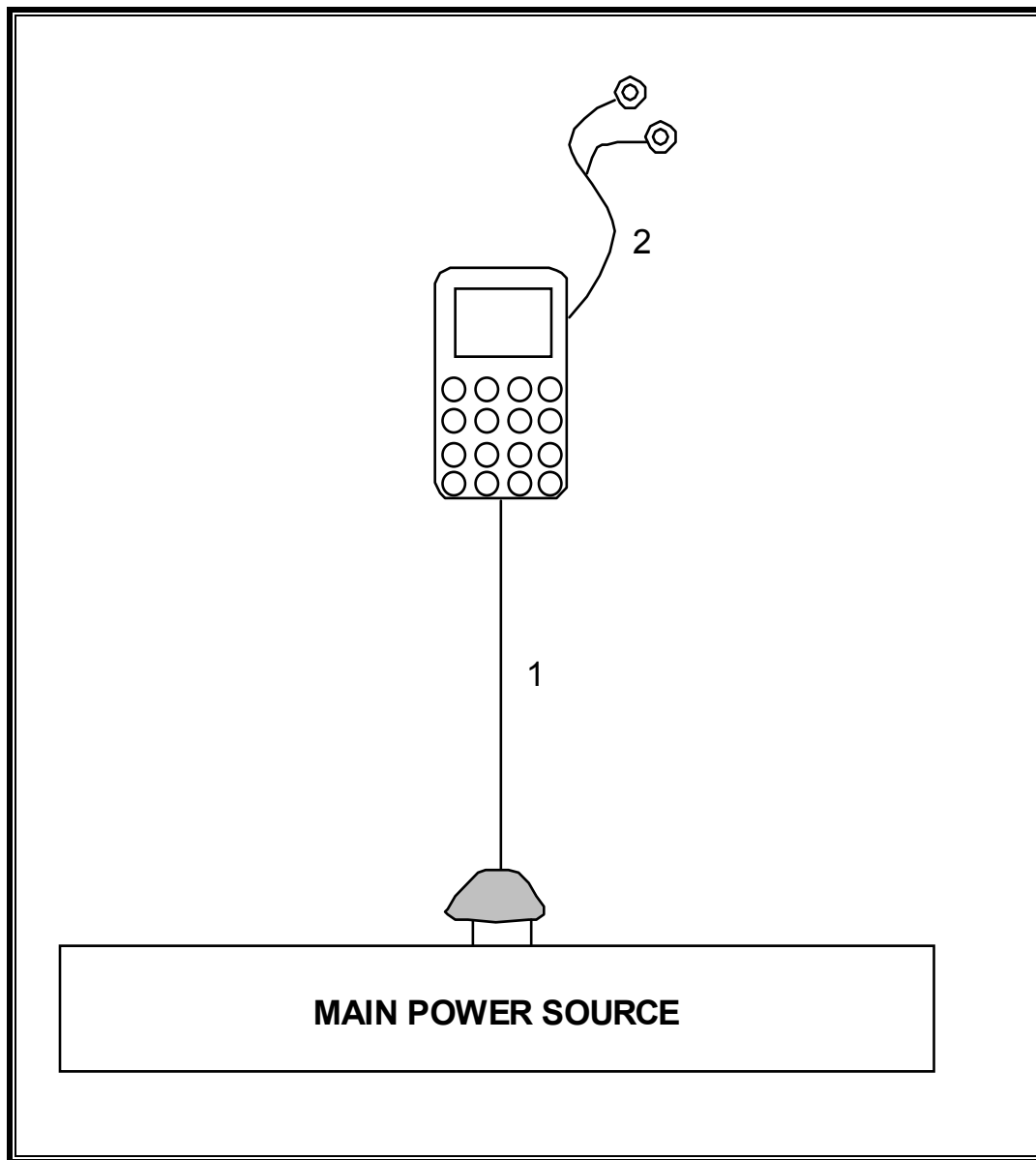
I/O CABLE LIST						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length	Remarks
1	DC Input	1	Mini USB	Un-Shielded	2.0 m	N/A
2	Jack	1	Audio	Un-Shielded	0.8 m	N/A

### TEST SETUP

The EUT is a bluetooth featured CDMA phone and-is tested as a standalone configuration. Communications Test Set is used to link the device under test.



**RADIATED TEST SETUP DIAGRAM**



## 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, 26.5 GHz	Agilent / HP	8449B	C01063	11/16/09
Antenna, Bilog, 2 GHz	Sunol Sciences	JB1	C01016	02/11/09
Antenna, Horn, 18 GHz	EMCO	3115	C00945	04/22/09
Antenna, Horn, 18 GHz	EMCO	3115	C00872	04/22/09
Dipole	Speag	D900V2	NA	01/21/10
Spectrum Analyzer, 44 GHz	Agilent / HP	E4446A	C01012	03/03/09
Highpass Filter, 1.5 GHz	Micro-Tronics	HPM13193	N02689	CNR
Highpass Filter, 2.7 GHz	Micro-Tronics	HPM13194	N02687	CNR
Signal Generator	R & S	SMP04	C00953	02/16/09
Communications Test Set	Agilent / HP	E5515C	C01086	06/16/09

## 7. LIMITS AND RESULTS

### 7.1. RADIATED OUTPUT POWER

#### LIMIT

22.913(a) The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

24.232(b) Mobile/portable stations are limited to 2 watts e.i.r.p. peak power and the equipment must employ means to limit the power to the minimum necessary for successful communications.

#### TEST PROCEDURE

ANSI / TIA / EIA 603 Clause 2.2.17

#### RESULTS

824 to 849 MHz Authorized Band

Frequency Range (MHz)	Modulation	ERP Peak Power (dBm)	ERP Peak Power (mW)
Low CH - 824.70	CDMA2000	25.9	389.0
Mid CH - 836.52		26.2	416.9
High CH - 848.31		26.7	467.7

1850 to 1910 MHz Authorized Band

Frequency Range (MHz)	Modulation	EIRP Peak Power (dBm)	EIRP Peak Power (mW)
Low CH - 1851.25	CDMA2000	26.9	489.8
Mid CH - 1880.00		27.4	549.5
High CH - 1908.75		27.3	537.0



**PCS BAND CDMA OUTPUT POWER (EIRP)**

<b>High Frequency Fundamental Measurement</b>									
Compliance Certification Services, Morgan Hill 5m Chamber Site									
Company: KYOCERA SANYO TELECOM, INC.									
Project #: 08U12290									
Date: 12/16/2008									
Test Engineer: MENGISTU MEKURIA									
Configuration: EUT WITH HEADSET AND AC ADAPTER									
Mode: TX PCS BAND									
<b>Test Equipment:</b>									
Receiving: Horn T73, and 20ft S/N: 228076 003									
Substitution: Horn T60 Substitution, 4ft SMA Cable Warehouse S/N: 187215 001									
f GHz	SA reading (dBuV/m)	Ant. Pol. (H/V)	SG reading (dBm)	CL (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
<b>Low Ch</b>									
1.851	94.6	V	19.2	0.6	8.3	26.9	33.0	-6.1	
1.851	92.7	H	16.5	0.6	8.3	24.2	33.0	-8.8	
<b>Mid Ch</b>									
1.880	95.2	V	19.7	0.6	8.3	27.4	33.0	-5.6	
1.880	92.8	H	16.9	0.6	8.3	24.6	33.0	-8.4	
<b>High Ch</b>									
1.909	94.7	V	19.6	0.7	8.4	27.3	33.0	-5.7	
1.909	93.5	H	17.2	0.7	8.4	24.9	33.0	-8.1	
Rev. 1.24.7									

## **7.2. FIELD STRENGTH OF SPURIOUS EMISSION**

### **LIMIT**

§22.917 (e) and §24.238(a) Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log (P)$  dB.

§24.238 (a) Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log (P)$  dB.

### **TEST PROCEDURE**

ANSI / TIA / EIA 603 Clause 3.2.12 & FCC 22.917 (b), FCC 24.238 (b)

### **RESULTS**

Note: No emissions were found within 30-1000MHz & after the seventh harmonic for CELL and fifth for harmonic PCS bands of 20dB below the system noise.

**CELL BAND CDMA SPURIOUS & HARMONIC (ERP)**

High Frequency Substitution Measurement										
Compliance Certification Services, Fremont 5m B-Chamber										
Company:		KYOCERA SANYO TELECOM, INC.								
Project #:		08U12291								
Date:		12/17/2008								
Test Engineer:		MENGISTU MEKURIA								
Configuration:		EUT WITH HEADSET AND AC ADAPTER								
Mode:		TX CELL BAND								
Test Equipment:										
EMCO Horn 1-18GHz		Horn > 18GHz			Limit		High Pass Filter			
T73; S/N: 6717 @3m					FCC 22					
HI Frequency Cables		Pre-amplifier 1-26GHz			Pre-amplifier 26-40GHz					
<input type="checkbox"/> (2 ft) <input type="checkbox"/> (2 ~ 3 ft) <input type="checkbox"/> (4 ~ 6 ft) <input checked="" type="checkbox"/> (12 ft)		T145 Agilent 3008A								
f GHz	SA reading (dBuV/m)	Ant. Pol. (H/V)	SG reading (dBm)	CL (dB)	Gain (dBi)	Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)	Notes
<b>Low Ch. (824.70 MHz)</b>										
1.649	48.7	H	-56.6	3.8	8.0	5.8	-54.6	-13.0	-41.6	
2.474	42.4	H	-59.8	4.9	9.5	7.4	-57.3	-13.0	-44.3	
3.299	42.2	H	-56.7	5.6	9.8	7.6	-54.7	-13.0	-41.7	
4.124	39.2	H	-55.7	6.3	9.8	7.7	-54.4	-13.0	-41.4	
4.948	37.7	H	-56.1	7.0	10.7	8.5	-54.5	-13.0	-41.5	
5.773	39.0	H	-53.0	7.5	11.7	9.6	-50.9	-13.0	-37.9	
6.598	38.0	H	-52.8	7.9	12.3	10.1	-50.6	-13.0	-37.6	
7.422	37.9	H	-51.5	8.3	12.6	10.4	-49.4	-13.0	-36.4	
8.247	41.6	H	-47.1	8.7	12.9	10.7	-45.0	-13.0	-32.0	
9.072	38.7	H	-49.9	9.1	12.9	10.7	-48.3	-13.0	-35.3	
9.896	38.5	H	-48.8	9.9	13.3	11.1	-47.6	-13.0	-34.6	
1.649	47.5	V	-58.5	3.8	8.0	5.8	-56.5	-13.0	-43.5	
2.474	44.3	V	-58.2	4.9	9.5	7.4	-55.7	-13.0	-42.7	
3.299	42.0	V	-57.0	5.6	9.8	7.6	-55.0	-13.0	-42.0	
4.124	38.0	V	-57.3	6.3	9.8	7.7	-56.0	-13.0	-43.0	
4.948	37.8	V	-56.3	7.0	10.7	8.5	-54.8	-13.0	-41.8	
5.773	39.5	V	-53.5	7.5	11.7	9.6	-51.4	-13.0	-38.4	
6.598	36.7	V	-54.7	7.9	12.3	10.1	-52.5	-13.0	-39.5	
7.422	36.9	V	-53.4	8.3	12.6	10.4	-51.2	-13.0	-38.2	
8.247	37.3	V	-52.5	8.7	12.9	10.7	-50.4	-13.0	-37.4	
9.072	42.9	V	-45.8	9.1	12.9	10.7	-44.1	-13.0	-31.1	
9.896	38.4	V	-48.9	9.9	13.3	11.1	-47.7	-13.0	-34.7	
<b>Mid Ch. (836.52 MHz)</b>										
1.673	47.5	H	-57.7	3.9	8.0	5.9	-55.7	-13.0	-42.7	
2.509	42.9	H	-59.2	4.9	9.6	7.4	-56.7	-13.0	-43.7	
3.346	40.3	H	-58.4	5.6	9.8	7.6	-56.4	-13.0	-43.4	
4.182	38.8	H	-56.1	6.3	9.9	7.7	-54.8	-13.0	-41.8	
5.018	37.8	H	-53.9	7.1	10.7	8.6	-52.4	-13.0	-39.4	
5.855	41.4	H	-50.6	7.5	11.9	9.8	-48.4	-13.0	-35.4	
6.691	39.6	H	-50.9	7.9	12.3	10.1	-48.7	-13.0	-35.7	
7.528	43.9	H	-45.4	8.3	12.6	10.5	-43.3	-13.0	-30.3	
8.364	53.8	H	-34.6	8.7	12.9	10.7	-32.6	-13.0	-19.6	
9.200	49.0	H	-39.4	9.2	12.9	10.8	-37.8	-13.0	-24.8	
10.037	39.2	H	-46.0	10.1	13.4	11.2	-44.9	-13.0	-31.9	
1.673	45.5	V	-60.4	3.9	8.0	5.9	-58.4	-13.0	-45.4	
2.509	41.4	V	-60.9	4.9	9.6	7.4	-58.4	-13.0	-45.4	
3.346	42.3	V	-56.5	5.6	9.8	7.6	-54.5	-13.0	-41.5	
4.182	40.0	V	-55.2	6.3	9.9	7.7	-53.8	-13.0	-40.8	
5.018	37.2	V	-55.6	7.1	10.7	8.6	-54.1	-13.0	-41.1	
5.855	43.9	V	-49.1	7.5	11.9	9.8	-46.9	-13.0	-33.9	
6.691	40.5	V	-50.7	7.9	12.3	10.1	-48.5	-13.0	-35.5	
7.528	45.2	V	-44.9	8.3	12.6	10.5	-42.7	-13.0	-29.7	
8.364	48.1	V	-41.5	8.7	12.9	10.7	-39.5	-13.0	-26.5	
9.200	53.9	V	-34.6	9.2	12.9	10.8	-33.0	-13.0	-20.0	
10.037	40.3	V	-46.0	10.1	13.4	11.2	-44.9	-13.0	-31.9	
Rev. 412.7										

### High Frequency Substitution Measurement

Compliance Certification Services, Fremont 5m B-Chamber

Company: KYOCERA SANYO TELECOM, INC.  
 Project #: 08U12291  
 Date: 12/17/2008  
 Test Engineer: MENGISTU MEKURIA  
 Configuration: EUT WITH HEADSET AND AC ADAPTER  
 Mode: TX CELL BAND

#### Test Equipment:

EMCO Horn 1-18GHz T73; S/N: 6717 @3m	Horn > 18GHz	Limit FCC 22	<input checked="" type="checkbox"/> High Pass Filter
Hi Frequency Cables <input type="checkbox"/> (2 ft) <input type="checkbox"/> (2 ~ 3 ft) <input type="checkbox"/> (4 ~ 6 ft) <input checked="" type="checkbox"/> (12 ft)			
Pre-amplifier 1-26GHz T145 Agilent 3008A		Pre-amplifier 26-40GHz	

f GHz	SA reading (dBuV/m)	Ant. Pol. (H/V)	SG reading (dBm)	CL (dB)	Gain (dBi)	Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)	Notes
<b>Hi Ch. (848.31 MHz)</b>										
1.697	48.4	H	-56.7	3.9	8.1	5.9	-54.7	-13.0	-41.7	
3.393	42.7	H	-55.7	5.7	9.7	7.6	-53.8	-13.0	-40.8	
4.242	41.3	H	-53.5	6.4	9.9	7.8	-52.1	-13.0	-39.1	
5.090	39.2	H	-52.4	7.1	10.8	8.7	-50.9	-13.0	-37.9	
5.938	37.3	H	-54.7	7.6	12.1	9.9	-52.4	-13.0	-39.4	
6.786	41.6	H	-48.7	8.0	12.3	10.1	-46.6	-13.0	-33.6	
7.635	40.0	H	-49.2	8.4	12.7	10.5	-47.0	-13.0	-34.0	
8.483	44.1	H	-44.2	8.8	12.9	10.7	-42.2	-13.0	-29.2	
9.331	54.9	H	-33.3	9.4	13.0	10.9	-31.8	-13.0	-18.8	
10.180	48.2	H	-36.6	10.2	13.4	11.3	-35.5	-13.0	-22.5	
11.028	39.1	H	-43.3	11.1	13.8	11.7	-42.8	-13.0	-29.8	
1.697	46.3	V	-59.5	3.9	8.1	5.9	-57.4	-13.0	-44.4	
3.393	42.6	V	-56.0	5.7	9.7	7.6	-54.1	-13.0	-41.1	
4.242	42.6	V	-52.5	6.4	9.9	7.8	-51.1	-13.0	-38.1	
5.090	40.7	V	-51.9	7.1	10.8	8.7	-50.3	-13.0	-37.3	
5.938	38.1	V	-55.0	7.6	12.1	9.9	-52.6	-13.0	-39.6	
6.786	44.1	V	-46.9	8.0	12.3	10.1	-44.7	-13.0	-31.7	
7.635	40.0	V	-49.9	8.4	12.7	10.5	-47.8	-13.0	-34.8	
8.483	46.8	V	-42.6	8.8	12.9	10.7	-40.6	-13.0	-27.6	
9.331	49.4	V	-38.8	9.4	13.0	10.9	-37.3	-13.0	-24.3	
10.180	55.0	V	-30.7	10.2	13.4	11.3	-29.7	-13.0	-16.7	
11.028	39.5	V	-43.5	11.1	13.8	11.7	-43.0	-13.0	-30.0	
<b>OTHER EMISSIONS</b>										
3.480	56.1	H	-41.9	5.7	9.7	7.6	-40.0	-13.0	-27.0	
3.527	54.3	H	-43.5	5.8	9.7	7.6	-41.7	-13.0	-28.7	
3.573	55.0	H	-42.5	5.8	9.7	7.6	-40.8	-13.0	-27.8	
3.863	59.5	H	-36.7	6.1	9.7	7.5	-35.2	-13.0	-22.2	
3.920	60.8	H	-35.0	6.1	9.7	7.5	-33.6	-13.0	-20.6	
3.980	61.2	H	-34.3	6.2	9.7	7.5	-32.9	-13.0	-19.9	
3.480	57.9	V	-40.3	5.7	9.7	7.6	-38.4	-13.0	-25.4	
3.527	56.6	V	-41.3	5.8	9.7	7.6	-39.5	-13.0	-26.5	
3.573	57.4	V	-40.3	5.8	9.7	7.6	-38.5	-13.0	-25.5	
3.863	59.9	V	-36.3	6.1	9.7	7.5	-34.8	-13.0	-21.8	
3.920	57.9	V	-38.0	6.1	9.7	7.5	-36.6	-13.0	-23.6	
3.980	57.7	V	-37.9	6.2	9.7	7.5	-36.5	-13.0	-23.5	

Rev. 4.12.7



**PCS BAND CDMA SPURIOUS & HARMONIC (EIRP)**

High Frequency Substitution Measurement											
Compliance Certification Services, Fremont 5m B-Chamber											
Company:		KYOCERA SANYO TELECOM, INC.									
Project #:		08U12291									
Date:		12/17/2008									
Test Engineer:		MENGISTU MEKURIA									
Configuration:		EUT WITH HEADSET AND AC ADAPTER									
Mode:		TX PCS BAND									
<b>Test Equipment:</b>											
EMCO Horn 1-18GHz		Horn > 18GHz		Limit		<input checked="" type="checkbox"/> High Pass Filter					
T73; S/N: 6717 @3m				FCC 24							
Hi Frequency Cables											
<input type="checkbox"/> (2 ft)		<input type="checkbox"/> (2 ~ 3 ft)		<input type="checkbox"/> (4 ~ 6 ft)		<input checked="" type="checkbox"/> (12 ft)		Pre-amplifier 1-26GHz		Pre-amplifier 26-40GHz	
						T145 Agilent 3008A					
f GHz	SA reading (dBuV/m)	Ant. Pol. (H/V)	SG reading (dBm)	CL (dB)	Gain (dBi)	Gain (dBd)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes	
Low Ch. (1851.25 MHz)											
3.703	49.9	H	-47.1	5.9	9.7	7.6	-43.3	-13.0	-30.3		
5.554	53.0	H	-38.5	7.4	11.3	9.1	-34.6	-13.0	-21.6		
7.405	44.1	H	-45.3	8.3	12.6	10.4	-41.1	-13.0	-28.1		
9.256	42.8	H	-45.6	9.3	13.0	10.8	-41.9	-13.0	-28.9		
11.108	35.6	H	-46.6	11.2	13.8	11.7	-44.0	-13.0	-31.0		
12.959	50.5	H	-30.5	12.3	15.2	13.1	-27.6	-13.0	-14.6		
14.810	41.9	H	-34.2	12.5	14.6	12.5	-32.1	-13.0	-19.1		
3.703	49.6	V	-47.5	5.9	9.7	7.6	-43.7	-13.0	-30.7		
5.554	52.2	V	-40.2	7.4	11.3	9.1	-36.4	-13.0	-23.4		
7.405	45.7	V	-44.6	8.3	12.6	10.4	-40.3	-13.0	-27.3		
9.256	40.2	V	-48.2	9.3	13.0	10.8	-44.5	-13.0	-31.5		
11.108	40.0	V	-42.8	11.2	13.8	11.7	-40.2	-13.0	-27.2		
12.959	48.9	V	-31.1	12.3	15.2	13.1	-28.2	-13.0	-15.2		
14.810	38.2	V	-38.6	12.5	14.6	12.5	-36.5	-13.0	-23.5		
Mid Ch. (1880.00 MHz)											
3.760	54.0	H	-42.7	6.0	9.7	7.6	-39.0	-13.0	-26.0		
5.640	53.0	H	-38.7	7.4	11.5	9.3	-34.6	-13.0	-21.6		
7.520	47.4	H	-42.0	8.3	12.6	10.5	-37.7	-13.0	-24.7		
9.400	43.8	H	-44.3	9.4	13.0	10.9	-40.7	-13.0	-27.7		
11.280	43.1	H	-38.4	11.4	13.9	11.7	-36.0	-13.0	-23.0		
13.160	36.0	H	-43.0	12.3	15.3	13.1	-40.0	-13.0	-27.0		
15.040	41.0	H	-35.5	12.5	14.6	12.4	-33.4	-13.0	-20.4		
3.760	54.9	V	-41.9	6.0	9.7	7.6	-38.2	-13.0	-25.2		
5.640	52.3	V	-40.4	7.4	11.5	9.3	-36.3	-13.0	-23.3		
7.520	43.1	V	-47.0	8.3	12.6	10.5	-42.7	-13.0	-29.7		
9.400	41.1	V	-47.0	9.4	13.0	10.9	-43.4	-13.0	-30.4		
11.280	41.8	V	-40.3	11.4	13.9	11.7	-37.8	-13.0	-24.8		
13.160	41.6	V	-38.2	12.3	15.3	13.1	-35.2	-13.0	-22.2		
15.040	38.4	V	-38.0	12.5	14.6	12.4	-35.9	-13.0	-22.9		
Hi Ch. (1908.75 MHz)											
3.818	59.3	H	-37.1	6.0	9.7	7.5	-33.5	-13.0	-20.5		
5.726	49.9	H	-42.0	7.5	11.6	9.5	-37.8	-13.0	-24.8		
7.635	48.0	H	-41.2	8.4	12.7	10.5	-36.9	-13.0	-23.9		
9.544	46.0	H	-41.9	9.6	13.1	11.0	-38.4	-13.0	-25.4		
11.453	48.1	H	-32.8	11.6	13.9	11.8	-30.4	-13.0	-17.4		
13.361	42.5	H	-36.4	12.3	15.3	13.2	-33.4	-13.0	-20.4		
15.270	38.9	H	-38.6	12.6	15.2	13.1	-35.9	-13.0	-22.9		
3.818	62.5	V	-34.0	6.0	9.7	7.5	-30.3	-13.0	-17.3		
5.726	50.5	V	-42.4	7.5	11.6	9.5	-38.2	-13.0	-25.2		
7.635	44.7	V	-45.4	8.4	12.7	10.5	-41.1	-13.0	-28.1		
9.544	40.0	V	-47.9	9.6	13.1	11.0	-44.3	-13.0	-31.3		
11.453	45.7	V	-35.8	11.6	13.9	11.8	-33.4	-13.0	-20.4		
13.361	47.9	V	-31.7	12.3	15.3	13.2	-28.7	-13.0	-15.7		
15.270	38.9	V	-38.4	12.6	15.2	13.1	-35.8	-13.0	-22.8		
Rev. 4.12.7											