



**RADIATED SPURIOUS EMISSIONS PORTIONS OF
FCC CFR47 PART 22 SUBPART H
FCC CFR47 PART 90 SUBPART S**

**CERTIFICATION TEST REPORT
FOR**

TRI BAND 1XRTT CDMA WITH BLUETOOTH

MODEL NUMBER: E4277

FCC ID: V65E4255

REPORT NUMBER: 12U14396-3

ISSUE DATE: MAY 16, 2012

Prepared for

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

Prepared by

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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> |
|-------------|-------------------|------------------|-------------------|
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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: TRI BAND 1XR TT CDMA WITH BLUETOOTH

MODEL: E4277

SERIAL NUMBER: 4277J027 (Part 22) and 4277J025 (Part 90)

DATE TESTED: MAY 8 TO 16, 2012

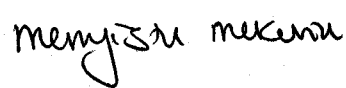
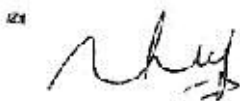
| APPLICABLE STANDARDS | |
|-----------------------|-------------------------|
| STANDARD | TEST RESULTS |
| FCC PART 22 Subpart H | PASS (Radiated Portion) |
| FCC PART 90 Subpart S | PASS (Radiated Portion) |

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. 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 UL CCS By:

Tested By:



THU CHAN
ENGINEERING MANAGER
UL CCS

MENGISTU MEKURIA
EMC ENGINEER
UL CCS

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with TIA-603-C, FCC CFR 47 Part 2, FCC CFR 47 Part 22, and FCC CFR 47 Part 90 Subpart S.

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:

$$\text{Field Strength (dBuV/m)} = \text{Measured Voltage (dBuV)} + \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} - \text{Preamp Gain (dB)}$$

$$36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} = 28.9 \text{ dBuV/m}$$

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 Tri Band CDMA Mobile Phone with a Bluetooth feature that is manufactured by Kyocera Communication Inc.

5.2. MAXIMUM OUTPUT POWER

The transmitter maximum peak ERP output powers are as follows:

PART 22 CELL BAND

| Frequency Range (MHz) | Modulation | ERP Peak Power (dBm) | ERP Peak Power (mW) |
|--------------------------|------------|----------------------------|---------------------------|
| Low CH - 824.70 | CDMA2000 | 29.58 | 907.82 |
| Mid CH - 836.52 | | 29.92 | 981.75 |
| High CH - 848.31 | | 28.93 | 781.63 |

PART 90 SECONDARY 800 BAND

| Frequency Range (MHz) | Modulation | ERP Peak Power (dBm) | ERP Peak Power (mW) |
|--------------------------|------------|----------------------------|---------------------------|
| Low CH - 817.90 | CDMA2000 | 29.82 | 959.40 |
| Mid CH - 820.50 | | 30.22 | 1051.96 |
| High CH - 823.10 | | 30.00 | 1000.00 |

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 on X, Y, and Z positions, and the worst position among X, Y, and Z with an AC adapter and headset. After the investigation the worst-cases were turned out to be open Z and X position with AC/DC adapter and headset for cell and secondary 800 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 > 55
- 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) > 1234
> Network ID (NID) > 1

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 55.

5.5. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

| PERIPHERAL SUPPORT EQUIPMENT LIST | | | | |
|-----------------------------------|--------------|-----------|---------------|--------|
| Description | Manufacturer | Model | Serial Number | FCC ID |
| AC/DC Adapter | Kyocera | SCP-31ADT | NA | NA |
| Headset | Generic | NA | NA | NA |

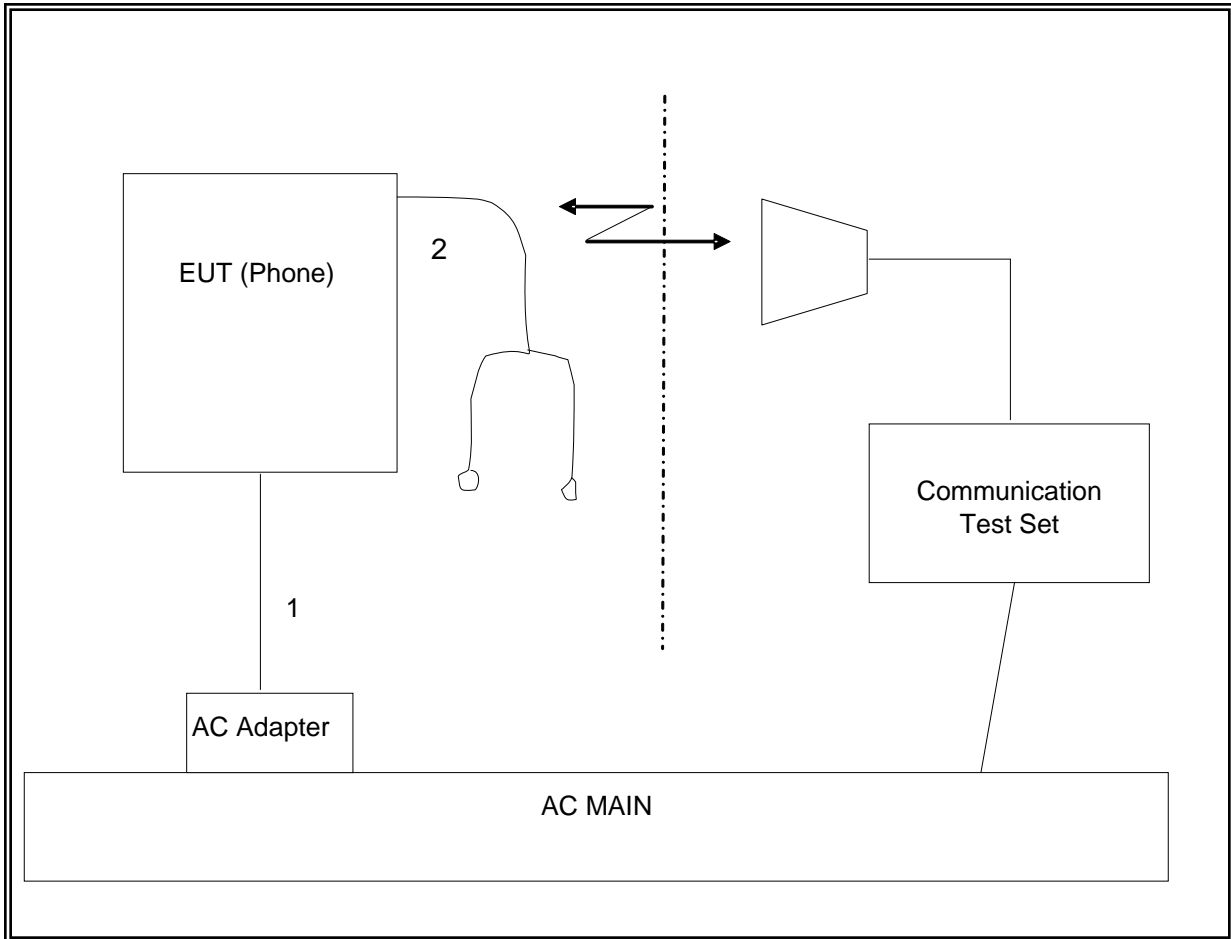
I/O CABLES

| I/O CABLE LIST | | | | | | |
|----------------|-------|----------------------|----------------|------------|--------------|---------|
| Cable No. | Port | # of Identical Ports | Connector Type | Cable Type | Cable Length | Remarks |
| 1 | DC | 1 | DC | unshielded | 2m | na |
| 2 | Audio | 1 | Headset | shielded | 1.5m | na |

TEST SETUP

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

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 |
| Spectrum Analyzer, 44 GHz | Agilent / HP | E4446A | C01069 | 12/15/12 |
| Signal Generator, 20 GHz | Agilent / HP | 83732B | C00774 | 07/14/12 |
| Communication Test Set | Agilent / HP | E5515C | C01086 | 06/17/12 |
| Preamplifier, 26.5 GHz | Agilent / HP | 8449B | C01063 | 07/12/12 |
| Antenna, Tuned Dipole 400~1000 MHz | ETS | 3121C DB4 | C00993 | 07/16/12 |
| Antenna, Bilog, 30MHz-1 GHz | Sunol Sciences | JB1 | C01011 | 03/23/13 |
| Antenna, Horn, 18 GHz | EMCO | 3115 | C00943 | CNR |
| Antenna, Horn, 18 GHz | EMCO | 3115 | C00783 | 06/29/12 |
| Highpass Filter, 1.5 GHz | Micro-Tronics | HPM13193 | N02689 | CNR |

7. LIMITS AND RESULTS

7.1. RADIATED OUTPUT POWER

LIMITS

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

§ 90.635 Limitations on power and antenna height.

(a) The effective radiated power and antenna height for base stations may not exceed 1 kilowatt (30 dBw) and 304 m. (1,000 ft.) above average terrain (AAT), respectively, or the equivalent thereof as determined from the Table. These are maximum values, and applicants will be required to justify power levels and antenna heights requested.

(b) The maximum output power of the transmitter for mobile stations is 100 watts (20 dBw).

Table—Equivalent Power and Antenna Heights for Base Stations in the 851–869 MHz and 935–940 MHz Bands Which Have a Requirement for a 32 km (20 mi) Service Area Radius

| Antenna height (ATT) meters (feet) | Effective radiated power (watts) ^{1,2,4} |
|--------------------------------------|---|
| Above 1,372 (4,500) | 65 |
| Above 1,220 (4,000) to 1,372 (4,500) | 70 |
| Above 1,067 (3,500) to 1,220 (4,000) | 75 |
| Above 915 (3,000) to 1,067 (3,500) | 100 |
| Above 763 (2,500) to 915 (3,000) | 140 |
| Above 610 (2,000) to 763 (2,500) | 200 |
| Above 458 (1,500) to 610 (2,000) | 350 |
| Above 305 (1,000) to 458 (1,500) | 600 |
| Up to 305 (1,000) | ³ 1,000 |

1. Power is given in terms of effective radiated power (ERP).
2. Applicants in the Los Angeles, CA, area who demonstrate a need to serve both the downtown and fringe areas will be permitted to utilize an ERP of 1 kw at the following mountaintop sites: Santiago Park, Sierra Peak, Mount Lukens, and Mount Wilson.
3. Stations with antennas below 305 m (1,000 ft) (AAT) will be restricted to a maximum power of 1 kw (ERP).

TEST PROCEDURE

ANSI / TIA / EIA 603 Clause 2.2.17

RESULTS

| Mode | Channel | f (MHz) | ERP | |
|---------------|---------|---------|-------|---------|
| | | | dBm | mW |
| Cell | 1013 | 824.70 | 29.58 | 907.82 |
| | 384 | 836.52 | 29.92 | 981.75 |
| | 777 | 848.31 | 28.93 | 781.63 |
| SECONDARY 800 | 467 | 817.90 | 29.82 | 959.40 |
| | 580 | 820.50 | 30.22 | 1051.96 |
| | 674 | 823.10 | 30.00 | 1000.00 |

CELL OUTPUT POWER (ERP)

| High Frequency Substitution Measurement Compliance Certification Services Chamber B | | | | | | | | | |
|--|---------------------|-----------------------------------|--------------------|-----------------------|--------------|----------------|----------------|-------|--|
| Company: | | KYOCERA | | | | | | | |
| Project #: | | 12U14396 | | | | | | | |
| Date: | | 05/08/12 | | | | | | | |
| Test Engineer: | | MENGISTU MEKURIA | | | | | | | |
| Configuration: | | EUT with AC Adapter and Headset | | | | | | | |
| Mode: | | TX, 850 MHz BAND, CDMA 1xRTT MODE | | | | | | | |
| Test Equipment: | | | | | | | | | |
| Receiving: Sunol T122, and 5m Chamber B N-type Cable (Setup this one for testing EUT) | | | | | | | | | |
| Substitution: Dipole S/N: 00022117, 4ft SMA Cable (SN # 2446399003) Warehouse. | | | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBd) | ERP (dBm) | Limit (dBm) | Margin (dB) | Notes | |
| Low Ch | | | | | | | | | |
| 824.70 | 30.08 | V | 0.5 | 0.0 | 29.58 | 38.5 | -8.9 | | |
| 824.70 | 23.11 | H | 0.5 | 0.0 | 22.61 | 38.5 | -15.8 | | |
| Mid Ch | | | | | | | | | |
| 836.52 | 30.42 | V | 0.5 | 0.0 | 29.92 | 38.5 | -8.5 | | |
| 836.52 | 24.87 | H | 0.5 | 0.0 | 24.37 | 38.5 | -14.1 | | |
| High Ch | | | | | | | | | |
| 848.31 | 29.43 | V | 0.5 | 0.0 | 28.93 | 38.5 | -9.5 | | |
| 848.31 | 23.70 | H | 0.5 | 0.0 | 23.20 | 38.5 | -15.2 | | |
| Rev. 3.17.11 | | | | | | | | | |

SECONDARY 800 OUTPUT POWER (ERP)

| High Frequency Substitution Measurement Compliance Certification Services Chamber B | | | | | | | | | |
|--|---------------------|----------------------------------|--------------------|-----------------------|--------------|----------------|----------------|-------|--|
| Company: | | KYOCERA | | | | | | | |
| Project #: | | 12U14396 | | | | | | | |
| Date: | | 05/16/12 | | | | | | | |
| Test Engineer: | | MENGISTU MEKURIA | | | | | | | |
| Configuration: | | EUT with AC Adapter and Earphone | | | | | | | |
| Mode: | | TX, CELL BAND CDMA MODE, BC10 | | | | | | | |
| Test Equipment: | | | | | | | | | |
| Receiving: Sunol T122, and Chamber A N-type Cable | | | | | | | | | |
| Substitution: Dipole S/N: 00022117, 4ft SMA Cable (SN # 245182002) Warehouse. | | | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBd) | ERP (dBm) | Limit (dBm) | Margin (dB) | Notes | |
| Low Ch | | | | | | | | | |
| 817.90 | 23.60 | V | 0.5 | 0.0 | 23.10 | 50.0 | -26.9 | | |
| 817.90 | 30.32 | H | 0.5 | 0.0 | 29.82 | 50.0 | -20.2 | | |
| Mid Ch | | | | | | | | | |
| 820.50 | 23.52 | V | 0.5 | 0.0 | 23.02 | 50.0 | -27.0 | | |
| 820.50 | 30.72 | H | 0.5 | 0.0 | 30.22 | 50.0 | -19.8 | | |
| High Ch | | | | | | | | | |
| 823.10 | 23.39 | V | 0.5 | 0.0 | 22.89 | 50.0 | -27.1 | | |
| 823.10 | 30.50 | H | 0.5 | 0.0 | 30.00 | 50.0 | -20.0 | | |
| Rev. 3.17.11 | | | | | | | | | |

7.2. FIELD STRENGTH OF SPURIOUS RADIATION

LIMIT

§22.917 (e), RSS-132 § 4.5.1 (a) (i) & (b): 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.

§ 90.691 Emission mask requirements for EA-based systems.

(a) Out-of-band emission requirement shall apply only to the “outer” channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \text{Log}_{10}(f/6.1)$ decibels or $50 + 10 \text{Log}_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \text{Log}_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

(b) When an emission outside of the authorized bandwidth causes harmful interference, the Commission may, at its discretion, require greater attenuation than specified in this section.

TEST PROCEDURE

ANSI / TIA / EIA 603 Clause 3.2.12

RESULTS

CELL SPURIOUS & HARMONIC (ERP)

| Compliance Certification Services Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|---|------------------|----------------------------------|--------------|-------------|---------------|-----------|--------------|------------|-------|
| Company: | | KYOCERA | | | | | | | |
| Project #: | | 12U14396 | | | | | | | |
| Date: | | 05/16/12 | | | | | | | |
| Test Engineer: | | MENGISTU MEKURIA | | | | | | | |
| Configuration: | | EUT with AC Adapter and Earphone | | | | | | | |
| Mode: | | TX, CELL BAND CDMA MODE | | | | | | | |
| Chamber | | Pre-amplifier | | | Filter | | Limit | | |
| 5m Chamber B | | T145 8449B | | | Filter 1 | | Part 22 | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch, 824.7 MHz | | | | | | | | | |
| 1.649 | -2.3 | V | 3.0 | 35.5 | 1.0 | -36.9 | -13.0 | -23.9 | |
| 2.474 | -13.1 | V | 3.0 | 35.4 | 1.0 | -47.5 | -13.0 | -34.5 | |
| 3.299 | -19.9 | V | 3.0 | 35.5 | 1.0 | -54.5 | -13.0 | -41.5 | |
| 1.649 | -1.6 | H | 3.0 | 35.5 | 1.0 | -36.1 | -13.0 | -23.1 | |
| 2.474 | -14.8 | H | 3.0 | 35.4 | 1.0 | -49.3 | -13.0 | -36.3 | |
| 3.299 | -20.6 | H | 3.0 | 35.5 | 1.0 | -55.2 | -13.0 | -42.2 | |
| Mid Ch, 836.52 MHz | | | | | | | | | |
| 1.673 | 4.1 | V | 3.0 | 35.5 | 1.0 | -30.4 | -13.0 | -17.4 | |
| 2.510 | -1.6 | V | 3.0 | 35.4 | 1.0 | -36.0 | -13.0 | -23.0 | |
| 3.346 | -19.5 | V | 3.0 | 35.5 | 1.0 | -54.0 | -13.0 | -41.0 | |
| 1.673 | 2.6 | H | 3.0 | 35.5 | 1.0 | -31.9 | -13.0 | -18.9 | |
| 2.510 | -13.7 | H | 3.0 | 35.4 | 1.0 | -48.1 | -13.0 | -35.1 | |
| 3.346 | -19.4 | H | 3.0 | 35.5 | 1.0 | -53.9 | -13.0 | -40.9 | |
| High Ch, 848.31 MHz | | | | | | | | | |
| 1.697 | 4.2 | V | 3.0 | 35.5 | 1.0 | -30.3 | -13.0 | -17.3 | |
| 2.545 | -15.4 | V | 3.0 | 35.4 | 1.0 | -49.8 | -13.0 | -36.8 | |
| 3.393 | -21.0 | V | 3.0 | 35.5 | 1.0 | -55.5 | -13.0 | -42.5 | |
| 1.697 | 4.3 | H | 3.0 | 35.5 | 1.0 | -30.2 | -13.0 | -17.2 | |
| 2.545 | -19.3 | H | 3.0 | 35.4 | 1.0 | -53.8 | -13.0 | -40.8 | |
| 3.393 | -20.8 | H | 3.0 | 35.5 | 1.0 | -55.3 | -13.0 | -42.3 | |
| Rev. 03.03.09 | | | | | | | | | |
| Note: No other emissions were detected above the system noise floor. | | | | | | | | | |

SECONDARY 800 SPURIOUS & HARMONIC (ERP)

| Compliance Certification Services Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|---|------------------|----------------------------------|--------------|---------------|-------------|--------------|-------------|------------|-------|
| Company: | | KYOCERA | | | | | | | |
| Project #: | | 12U14396 | | | | | | | |
| Date: | | 05/16/12 | | | | | | | |
| Test Engineer: | | MENGISTU MEKURIA | | | | | | | |
| Configuration: | | EUT with AC Adapter and Earphone | | | | | | | |
| Mode: | | TX, CELL BAND CDMA MODE, BC10 | | | | | | | |
| Chamber | | Pre-amplifier | | Filter | | Limit | | | |
| 5m Chamber B | | T145 8449B | | Filter 1 | | Part 90 | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch, 817.90MHz | | | | | | | | | |
| 1.636 | 3.2 | V | 3.0 | 35.6 | 1.0 | -31.3 | -13.0 | -18.3 | |
| 2.454 | -11.6 | V | 3.0 | 35.4 | 1.0 | -46.1 | -13.0 | -33.1 | |
| 3.272 | -19.3 | V | 3.0 | 35.5 | 1.0 | -53.8 | -13.0 | -40.8 | |
| 1.636 | 5.4 | H | 3.0 | 35.6 | 1.0 | -29.1 | -13.0 | -16.1 | |
| 2.454 | -16.7 | H | 3.0 | 35.4 | 1.0 | -51.2 | -13.0 | -38.2 | |
| 3.272 | -19.4 | H | 3.0 | 35.5 | 1.0 | -54.0 | -13.0 | -41.0 | |
| Mid Ch, 820.50MHz | | | | | | | | | |
| 1.641 | 0.8 | V | 3.0 | 35.5 | 1.0 | -33.8 | -13.0 | -20.8 | |
| 2.462 | -21.5 | V | 3.0 | 35.4 | 1.0 | -55.9 | -13.0 | -42.9 | |
| 3.282 | -18.2 | V | 3.0 | 35.5 | 1.0 | -52.8 | -13.0 | -39.8 | |
| 1.641 | 4.2 | H | 3.0 | 35.5 | 1.0 | -30.4 | -13.0 | -17.4 | |
| 2.462 | -21.3 | H | 3.0 | 35.4 | 1.0 | -55.7 | -13.0 | -42.7 | |
| 3.282 | -20.8 | H | 3.0 | 35.5 | 1.0 | -55.3 | -13.0 | -42.3 | |
| High Ch, 823.10MHz | | | | | | | | | |
| 1.646 | -2.6 | V | 3.0 | 35.5 | 1.0 | -37.2 | -13.0 | -24.2 | |
| 2.469 | -20.2 | V | 3.0 | 35.4 | 1.0 | -54.6 | -13.0 | -41.6 | |
| 3.292 | -19.0 | V | 3.0 | 35.5 | 1.0 | -53.6 | -13.0 | -40.6 | |
| 1.646 | 1.2 | H | 3.0 | 35.5 | 1.0 | -33.3 | -13.0 | -20.3 | |
| 2.469 | -22.9 | H | 3.0 | 35.4 | 1.0 | -57.4 | -13.0 | -44.4 | |
| 3.292 | -19.5 | H | 3.0 | 35.5 | 1.0 | -54.0 | -13.0 | -41.0 | |
| Rev. 03.03.09 | | | | | | | | | |
| Note: No other emissions were detected above the system noise floor. | | | | | | | | | |