

**Test Report On**  
**Tri-Band CDMA Cellular Phone with Bluetooth**

| <b>Certification</b>                      |                           |
|---|---------------------------|
| FCC Part 22, 24 & 27<br>RSS 132, 133, 139 |                           |
| FCC ID:                                   | <b>OVF-K33BIC06</b>       |
| IC #:                                     | <b>3572A-S1310</b>        |
| Models:                                   | <b>K33BIC-06, S1310</b>   |
| Date:                                     | <b>September 24, 2009</b> |

| <b>STATEMENT OF CERTIFICATION</b>   |   |
|---|---|
| <i>The data, data evaluation and equipment configuration represented herein are a true and accurate representation of the measurements of the sample's radio frequency interference emissions characteristics as of the dates and at the times of the test under the conditions herein specified.</i> |   |
| <b>STATEMENT OF COMPLIANCE</b>  |   |
| <i>This product has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in §2.947.</i>   |   |
| <b>Date of Test:</b>  | September 24, 2009  |
| <b>Test performed by:</b>   | Kyocera Wireless Corp.<br>10300 Campus Point Drive<br>San Diego, CA 92121 |
| <b>Report Prepared by:</b>  | Thuy To, Regulatory Engineer  |
| <b>Report Approved by:</b>  | C.K. Li, Director of Regulatory Engineering                               |
| Compliance Certification Services performed the tests that required an OATS site.   |   |

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## 1 General Information

|                                 |   |             |             |
|---------------------------------|---|-------------|-------------|
| <b>Applicant:</b>               | Kyocera Wireless Corp<br>10300 Campus Point Drive<br>San Diego CA 92121   |             |             |
| <b>FCC ID:</b>                  | OVF-K33BIC06  |             |             |
| <b>IC #:</b>                    | 3572A-S1310   |             |             |
| <b>Product:</b>                 | Tri-Band CDMA Cellular Phone with Bluetooth   |             |             |
| <b>Model Numbers:</b>           | K33BIC-06, S1310  |             |             |
| <b>EUT Serial Number:</b>       | FFS13100001773  |             |             |
| <b>Type:</b>                    | <input type="checkbox"/> Identical Prototype, <input checked="" type="checkbox"/> Pre-Production, <input type="checkbox"/> Production |             |             |
| <b>Device Category:</b>         | Portable  |             |             |
| <b>RF Exposure Environment:</b> | General Population / Uncontrolled   |             |             |
| <b>Antenna:</b>                 | Internal Antenna  |             |             |
| <b>Detachable Antenna:</b>      | No  |             |             |
| <b>External Input:</b>          | Audio/Digital Data  |             |             |
| <b>Quantity:</b>                | Quantity production is planned  |             |             |
| <b>FCC Rule Parts:</b>          | §22H  | §27L        | §24E        |
| <b>IC Rule Parts :</b>          | RSS132  | RSS139      | RSS133      |
| <b>Modes:</b>                   | 800 CDMA  | 1700 CDMA   | 1900 CDMA   |
| <b>Multiple Access Scheme:</b>  | CDMA  | CDMA        | CDMA        |
| <b>TX Frequency (MHz):</b>      | 824 – 849   | 1710 - 1755 | 1850 - 1910 |
| <b>Emission Designators:</b>    | 1M25F9W   | 1M25F9W     | 1M25F9W     |
| <b>Max. Output Power (W):</b>   | 0.48 ERP  | 0.28 EIRP   | 0.28 EIRP   |

## 2 Product Description

The EUT K33BIC-06 is a Tri-Band 1XRTT CDMA Cellular phone with Bluetooth. The tri-band architecture is defined as 800MHz (cellular CDMA), 1700MHz (AWS CDMA) and 1900MHz (PCS CDMA). K33BIC-06 and S1310 are identical, different model numbers are for marketing reasons only.

The phone is designed in compliance with the technical specifications for compatibility of mobile and base stations in the Cellular Radio telephone service contained in “Cellular System Mobile Station -Land Station Compatibility Specification” as specified in OET Bulletin 53 and TIA Standards.

As described in Exhibit 1 (operation description), The EUT can operate in the CDMA mode specified in IS-2000.2 standard, release 0. It can only invoke a Spreading Rate 1 (SR1) operational mode. SR1 is defined as a 1.2288 Mcps chip rate-based system using a direct-spread single carrier, which limits the bandwidth to

the same 1.25 MHz bandwidth occupied by the legacy IS-95/8-A/B system. Thus, for SR1 in IS-2000, the frequency response is identical to the legacy IS-95 B system standard.

### 3 Test Configuration

For Part 22, 24, and 27 all of CDMA measurements were conducted with Agilent 8960 as a base station simulator. The base station simulator establishes a CDMA link with the test device. To justify on the selection of applicable configurations, the EUT was pre-tested under all R.C. and S.O. operation modes to determine the worst-case scenario:

| CONFIGURATION                     | CONDUCTED POWER (dBm) |              |              |              |              |              |              |              |              |
|-----------------------------------|-----------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|                                   | CDMA 800              |              |              | CDMA 1700    |              |              | CDMA 1900    |              |              |
|                                   | Ch 1013               | Ch 383       | Ch 777       | Ch 25        | Ch 450       | Ch 875       | Ch 25        | Ch 600       | Ch 1175      |
|                                   | Peak                  | Peak         | Peak         | Peak         | Peak         | Peak         | Peak         | Peak         | Peak         |
| SO2, RC1 Full Rate                | 29.04                 | 29.41        | 28.25        | 28.30        | 27.75        | 27.84        | 28.20        | 28.34        | 27.73        |
| SO2, RC3 Full Rate                | 28.60                 | 29.2         | 27.97        | 27.73        | 27.51        | 27.52        | 27.48        | 28.01        | 27.35        |
| SO55, RC1 Full Rate               | <b>29.26</b>          | <b>29.67</b> | <b>28.50</b> | <b>28.30</b> | <b>28.04</b> | <b>28.08</b> | <b>28.28</b> | <b>28.44</b> | <b>28.00</b> |
| SO55, RC3 Full Rate               | 28.86                 | 29.07        | 28.15        | 27.84        | 27.67        | 27.28        | 28.13        | 28.12        | 27.55        |
| TDSO SO32, RC3 (+F-SCH) Full Rate | 28.59                 | 29.05        | 27.87        | 27.79        | 27.90        | 27.15        | 27.37        | 27.91        | 27.29        |
| TDSO SO32, RC3 (+SCH) Full Rate   | 29.16                 | 28.99        | 28.00        | 27.81        | 27.45        | 27.25        | 27.49        | 27.88        | 27.64        |

| CONFIGURATION                     | CONDUCTED POWER (dBm) |        |        |           |        |        |           |        |         |
|-----------------------------------|-----------------------|--------|--------|-----------|--------|--------|-----------|--------|---------|
|                                   | CDMA 800              |        |        | CDMA 1700 |        |        | CDMA 1900 |        |         |
|                                   | Ch 1013               | Ch 383 | Ch 777 | Ch 25     | Ch 450 | Ch 875 | Ch 25     | Ch 600 | Ch 1175 |
|                                   | Avg                   | Avg    | Avg    | Avg       | Avg    | Avg    | Avg       | Avg    | Avg     |
| SO2, RC1 Full Rate                | 23.90                 | 24.51  | 23.54  | 23.05     | 23.30  | 22.78  | 22.66     | 23.15  | 22.80   |
| SO2, RC3 Full Rate                | 23.96                 | 24.55  | 23.62  | 22.95     | 23.37  | 22.73  | 22.68     | 23.14  | 22.79   |
| SO55, RC1 Full Rate               | 24.04                 | 24.61  | 23.63  | 23.19     | 23.42  | 22.88  | 22.82     | 23.17  | 22.82   |
| SO55, RC3 Full Rate               | 24.05                 | 24.70  | 23.66  | 23.10     | 23.42  | 22.89  | 22.83     | 23.32  | 22.86   |
| TDSO SO32, RC3 (+F-SCH) Full Rate | 23.89                 | 24.56  | 23.49  | 23.06     | 23.36  | 22.65  | 22.65     | 23.08  | 22.76   |
| TDSO SO32, RC3 (+SCH) Full Rate   | 24.01                 | 24.68  | 23.65  | 23.00     | 23.50  | 22.85  | 22.73     | 23.18  | 22.85   |

The following configuration was determined and reported as worst case for all measurements:

Radio Configuration: RC1

Service Options: SO55

Data Rate: full rate

#### 4 TTY compliance

**FCC § 255 of the Telecom Act**

The EUT has been designed for TTY Compliance with Cellular Compatibility Standard.

#### 5 Transmitter RF Power Output

##### 5.1 Conducted Power

**FCC: § 2.1046**

**IC: RSS-GEN 4.9**

**Measurement Procedures:**

The RF output power was measured using a Giga-tronics 8541C Universal Power Meter. Terminated to a resistive coaxial load of 50 ohms.

| Mode      | Frequency (MHz) | Channel | Power (dBm) |
|-----------|-----------------|---------|-------------|
| CDMA 800  | 824.70          | 1013    | 24.05       |
|           | 836.52          | 383     | 24.70       |
|           | 848.31          | 777     | 23.66       |
| CDMA 1700 | 1711.25         | 25      | 23.10       |
|           | 1732.5          | 450     | 23.42       |
|           | 1753.75         | 875     | 22.89       |
| CDMA 1900 | 1851.25         | 25      | 22.83       |
|           | 1880            | 600     | 23.32       |
|           | 1908.75         | 1175    | 22.86       |

## 5.2 Radiated Power

|  |  |
|--|--|
| <b>FCC:</b> § 22.913, § 24.232   | <b>IC:</b> RSS-132, RSS-133 (6.4), RSS-139 (6.4) |
| <p><b>Measurement Procedures:</b></p> <p>Tests were performed in Compliance Certification Service using substitution method. See separated radiated emission report for details.</p> |  |

| Mode      | Frequency (MHz) | Channel | Max. Power (dBm) | Ref. |
|-----------|-----------------|---------|------------------|------|
| CDMA 800  | 824.70          | 1013    | 26.2             | ERP  |
|           | 836.52          | 383     | 26.8             |      |
|           | 848.31          | 777     | 25.7             |      |
| CDMA 1700 | 1711.25         | 25      | 22.6             | EIRP |
|           | 1732.5          | 450     | 24.4             |      |
|           | 1753.75         | 875     | 23.1             |      |
| CDMA 1900 | 1851.25         | 25      | 24.4             | EIRP |
|           | 1880.00         | 600     | 24.2             |      |
|           | 1908.75         | 1175    | 23.5             |      |

## 6 Occupied Bandwidth

|  |   |            |             |
|--|---|------------|-------------|
| <b>FCC:</b>  | § 2.1049, § 22.917(b)(d), § 24.238, § 27.53(g)(1) | <b>IC:</b> | RSS-GEN 4.6 |
| <b>Measurement Procedures:</b>   |   |            |             |
| The RF output of the EUT was connected to the input of the spectrum analyzer (S.A.) with sufficient attenuation. The spectrum with no modulation was recorded. |   |            |             |
| For Digital: Modulate with full rate all up power control bit.   |   |            |             |
| S.A. Setting   | RBW   | VBW        |             |
| Bandwidth Measurement  | 30KHz   | 300kHz     |             |
| Band Edge Measurement  | 100KHz  | 100KHz     |             |

### List of Figures

| Figure | Mode             | Description               |
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| 6-1    | <b>CDMA 800</b>  | CDMA @ Ch383              |
| 6-2    |                  | Lower Band Edge @ Ch 1013 |
| 6-3    |                  | Upper Band Edge @ Ch 777  |
| 6-4    | <b>CDMA 1700</b> | AWS @ CH450               |
| 6-5    |                  | Lower Band Edge @ CH25    |
| 6-6    |                  | Upper Band Edge @ CH875   |
| 6-7    | <b>CDMA 1900</b> | CDMA @ CH600              |
| 6-8    |                  | Lower Band Edge @ CH 25   |
| 6-9    |                  | Upper Band Edge @ CH 1175 |

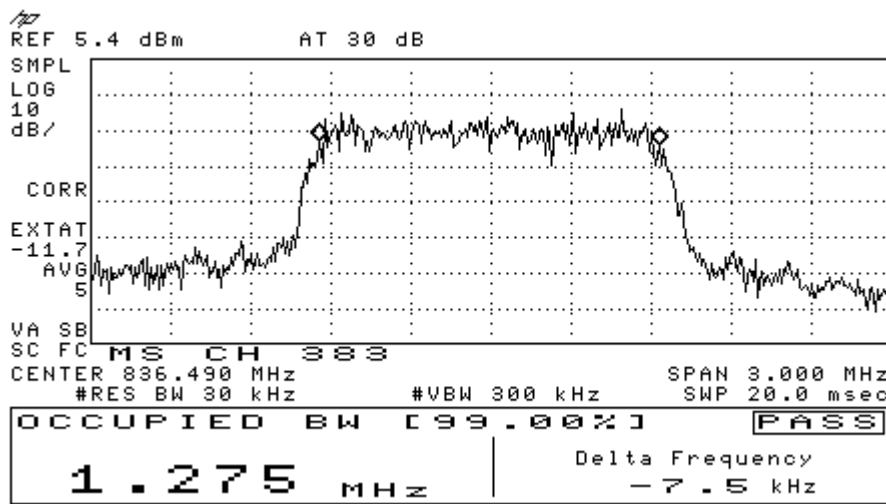


Figure 6-1 CDMA 800 @ CH 383

RL

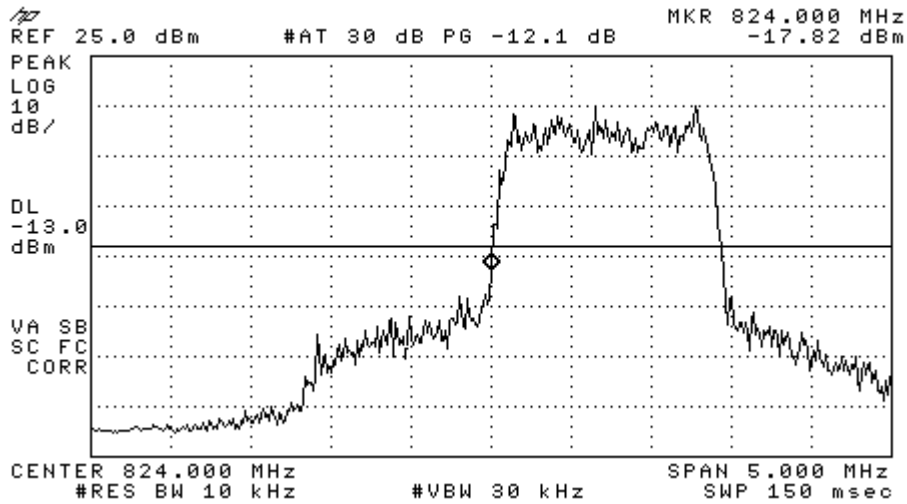


Figure 6-2 CDMA 800 Lower Band Edge @ CH 1013

RL

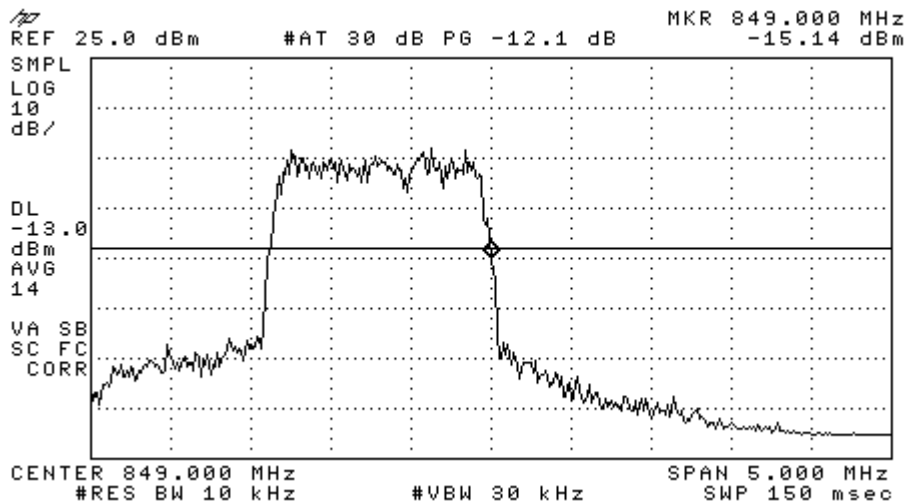
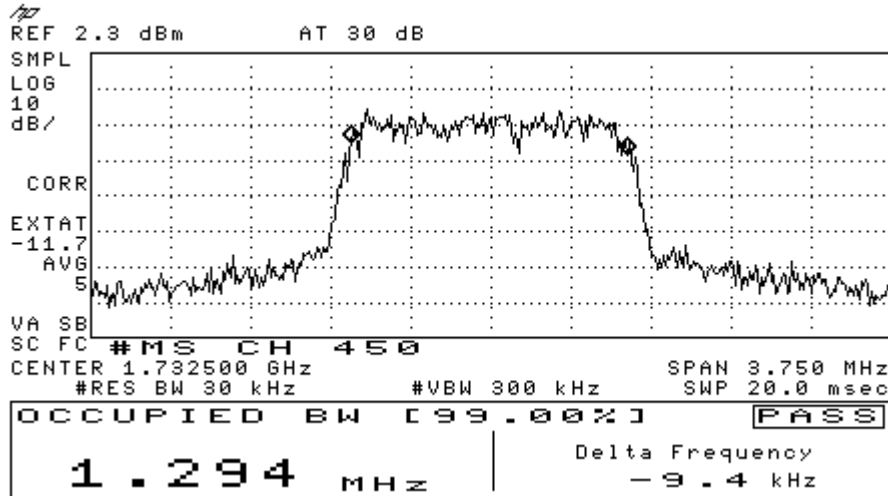


Figure 6-3 CDMA 800 Lower Band Edge @ CH 777

RT

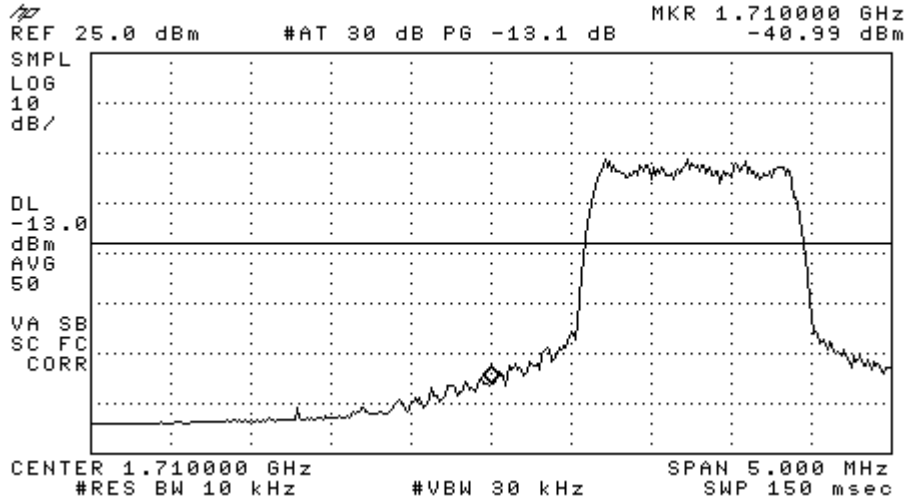


CDMA



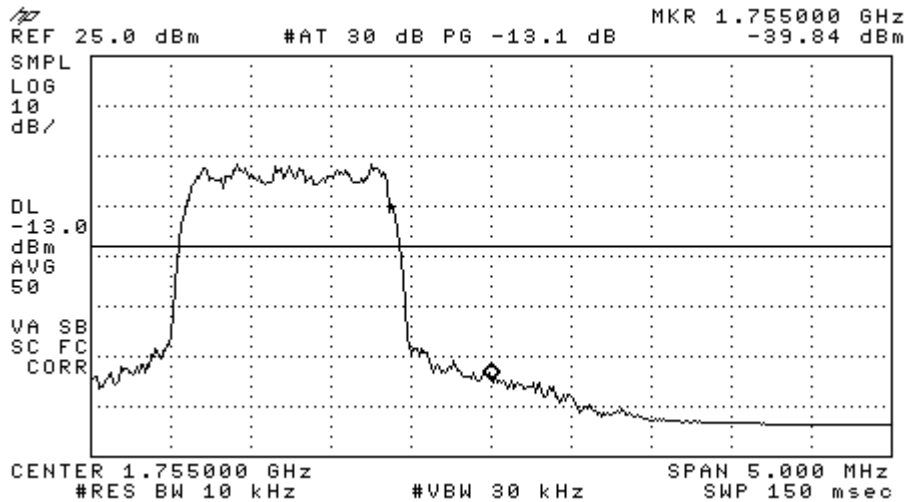
RT

Figure 6-4 AWS 1700 @ CH 450



RL

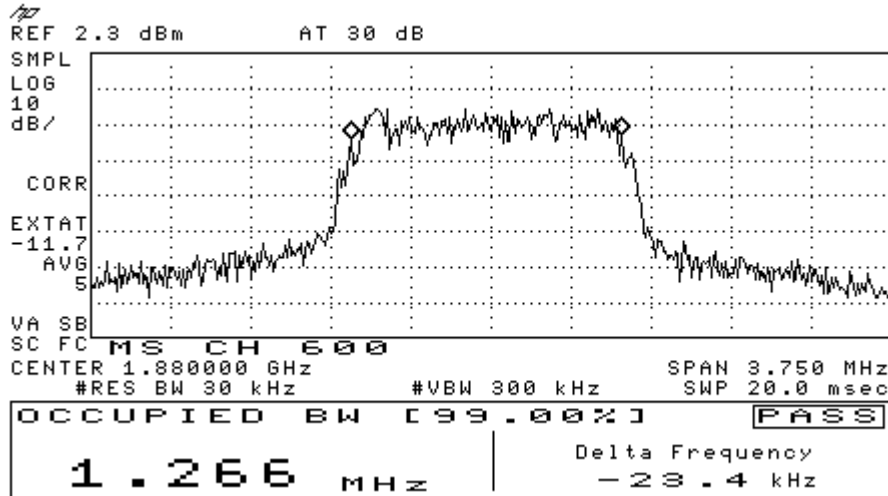
Figure 6-5 AWS 1700 Lower Band Edge @ CH 25



RT

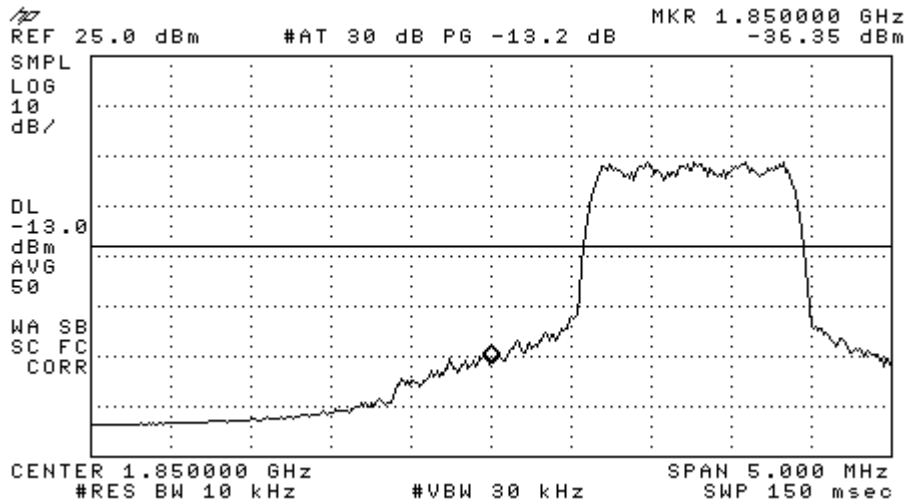
Figure 6-6 AWS 1700 Upper Band Edge @ CH 875

CDMA



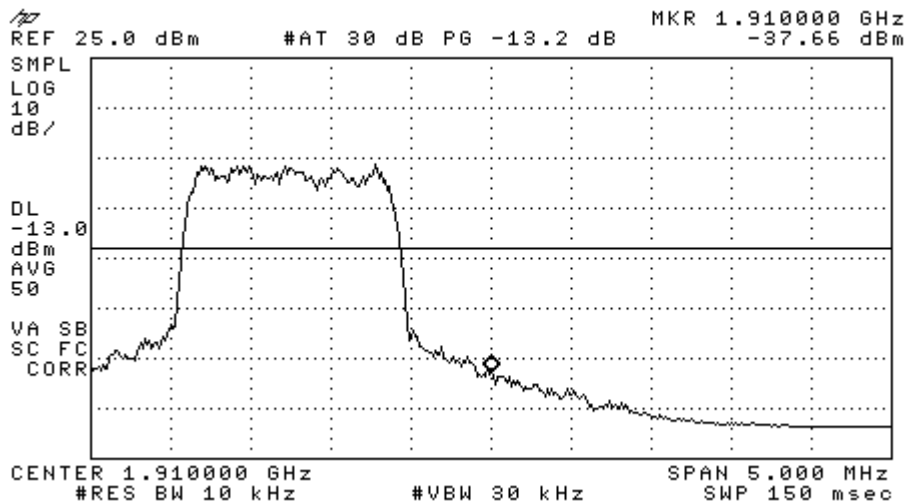
RT

Figure 6-7 CDMA 1900 @ CH 600



RT

Figure 6-8 CDMA 1900 Lower Band Edge @ CH 25



RT

Figure 6-9 CDMA 1900 Upper Band Edge @ CH 1175

## 7 Spurious Emissions At Antenna Terminals

|  |                                    |            |  |
|--|------------------------------------|------------|--|
| <b>FCC:</b>  | § 2.1051, § 22.917(e)(f), § 24.238 | <b>IC:</b> | RSS-132 (4.5), RSS-133 (6.5), RSS-139 (6.5), |
| <b>Measurement Procedures:</b>   |                                    |            |  |
| <p><u>Out of Band:</u> The RF output of the EUT was connected to the input of the spectrum analyzer with sufficient attenuation. The modulating signal was applied accordingly. The frequency spectrum was investigated from the lowest frequency signal generated up to at least the tenth harmonic of the fundamental.</p> |                                    |            |  |
| S.A. Setting   |                                    | RBW        | VBW  |
| Spurious Emissions Measurement   |                                    | 1MHz       | 1MHz   |

### List of Figures:

| Figure | Mode      | Channel | Plot Description                            |
|--------|-----------|---------|---|
| 7-1    | CDMA 800  | 1013    | Conducted spurious emissions, 9kHz to 10GHz |
| 7-2    |           | 383     | Conducted spurious emissions, 9kHz to 10GHz |
| 7-3    |           | 777     | Conducted spurious emissions, 9kHz to 10GHz |
| 7-4    | CDMA 1700 | 25      | Conducted spurious emissions, 9kHz to 20GHz |
| 7-5    |           | 450     | Conducted spurious emissions, 9kHz to 20GHz |
| 7-6    |           | 875     | Conducted spurious emissions, 9kHz to 20GHz |
| 7-7    | CDMA 1900 | 25      | Conducted spurious emissions, 9kHz to 20GHz |
| 7-8    |           | 600     | Conducted spurious emissions, 9kHz to 20GHz |
| 7-9    |           | 1175    | Conducted spurious emissions, 9kHz to 20GHz |

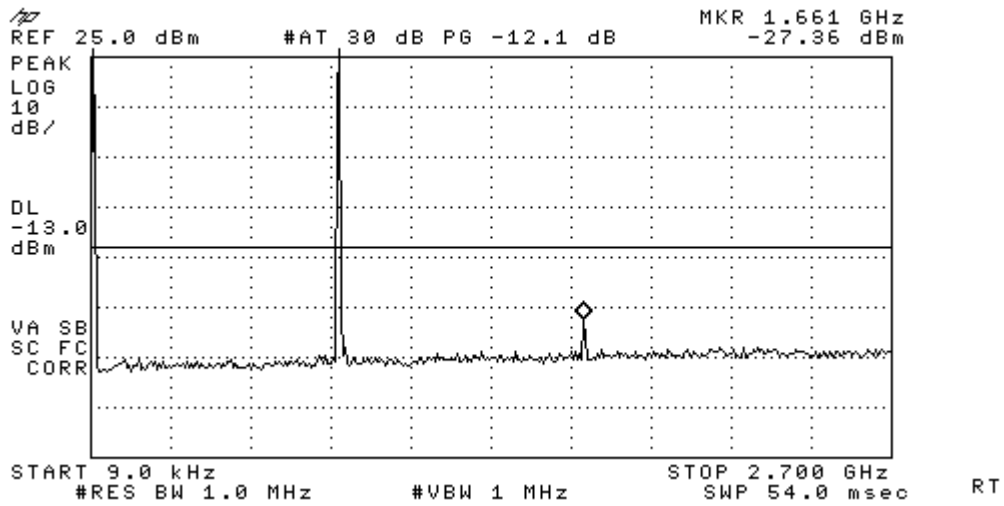


Figure 7-1a CDMA 800 – Conducted Spurious Emission (CH 1013)

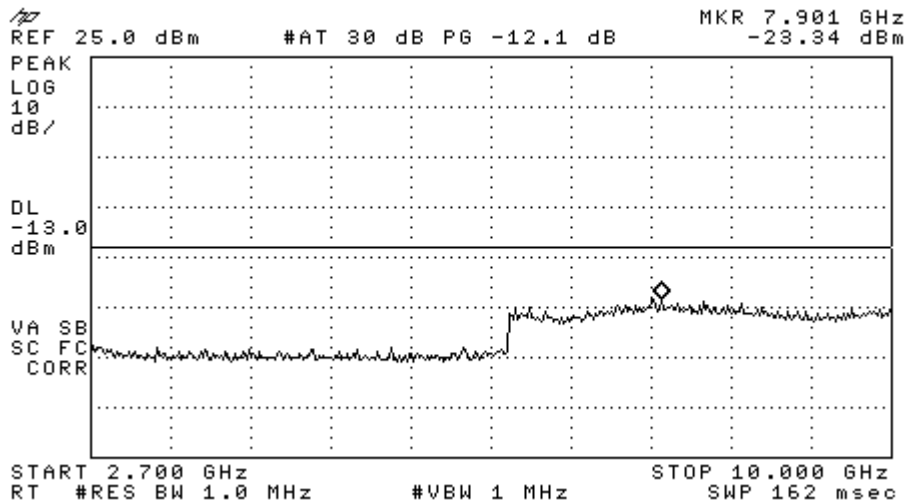


Figure 7-1b CDMA 800 – Conducted Spurious Emission (CH 1013)

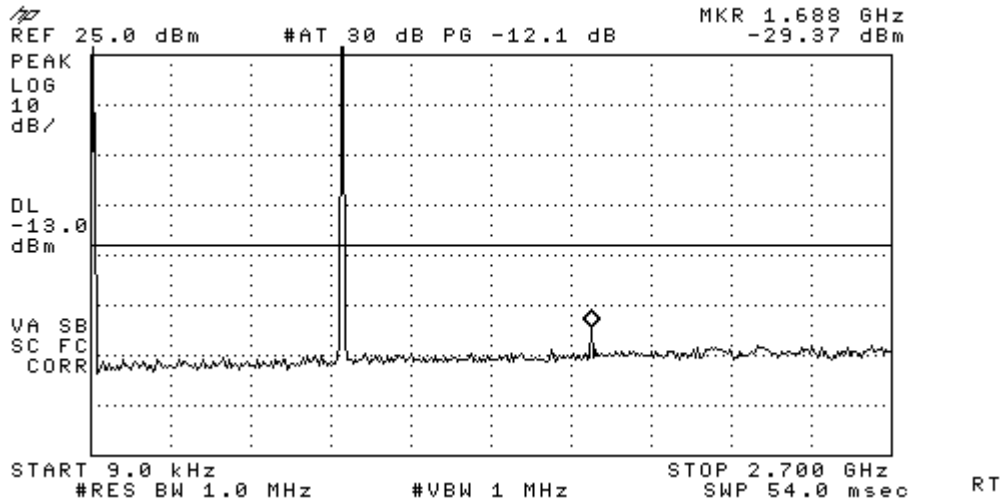


Figure 7-2a CDMA 800 – Conducted Spurious Emission (CH 383)

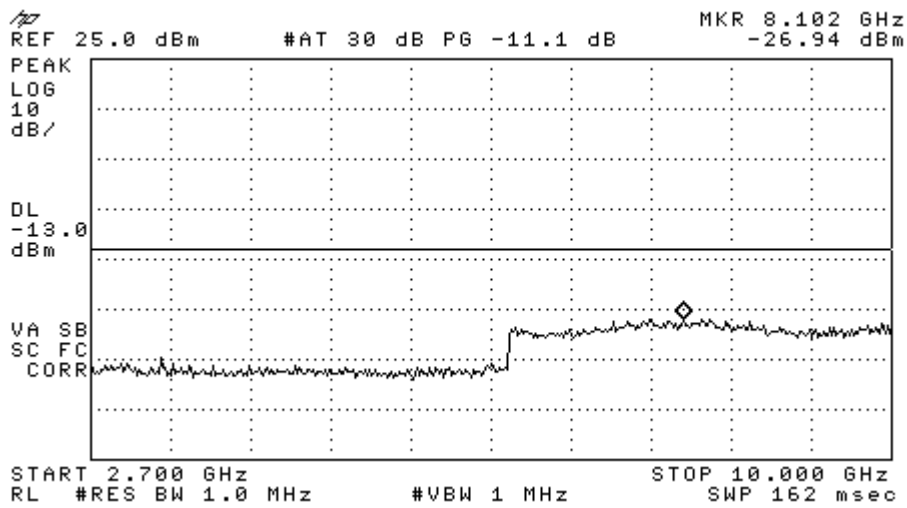
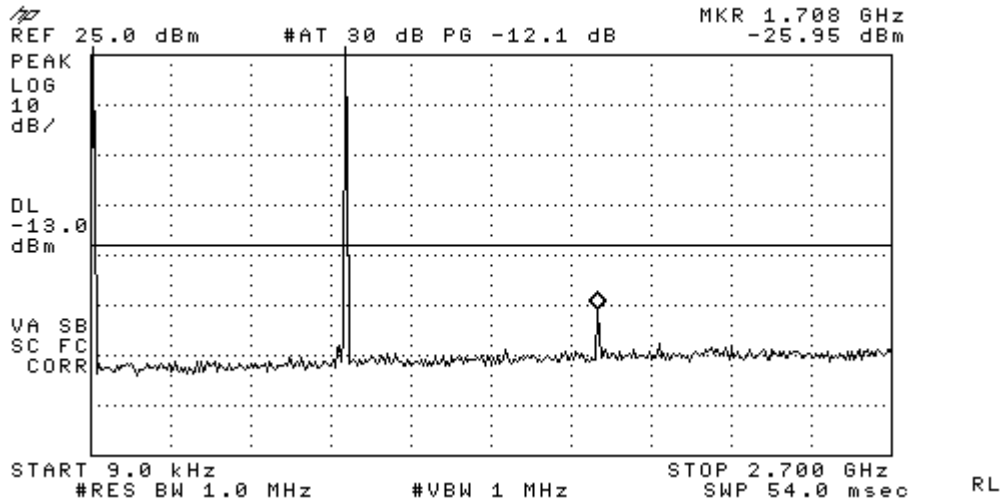
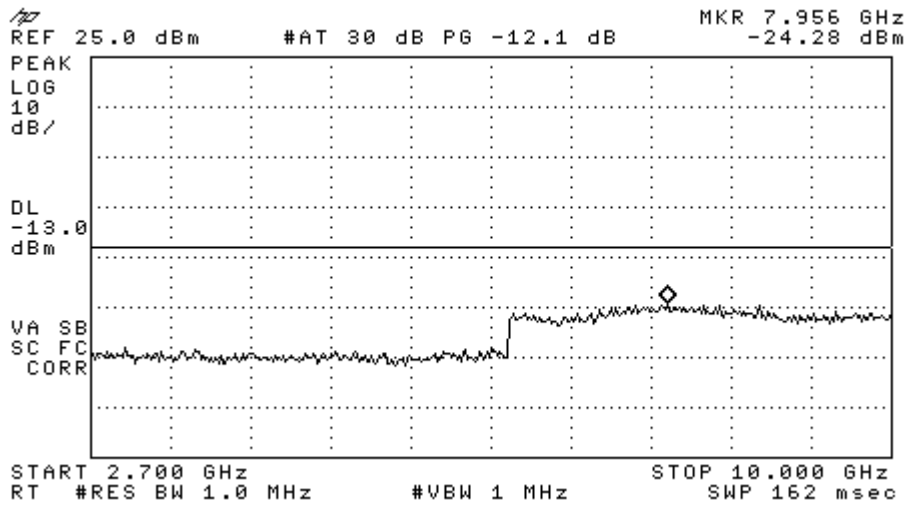


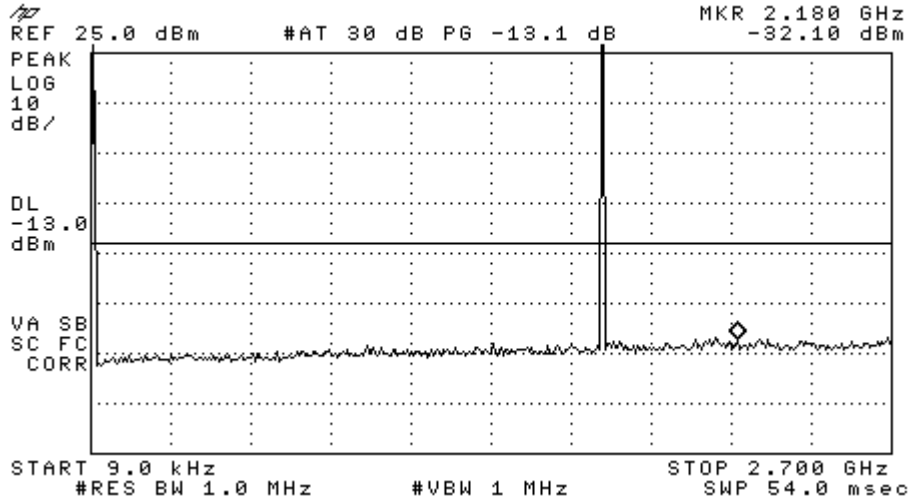
Figure 7-2b CDMA 800 – Conducted Spurious Emission (CH 383)



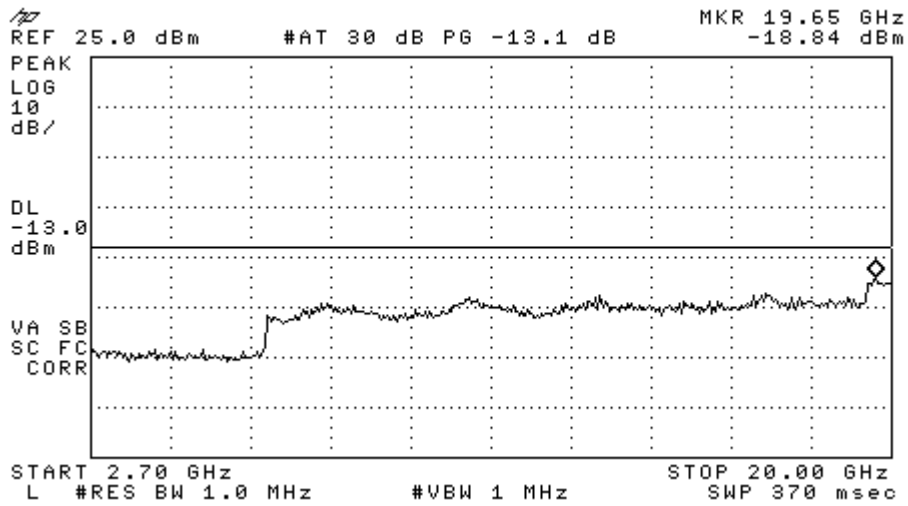
**Figure 7-3a CDMA 800 – Conducted Spurious Emission (CH 777)**



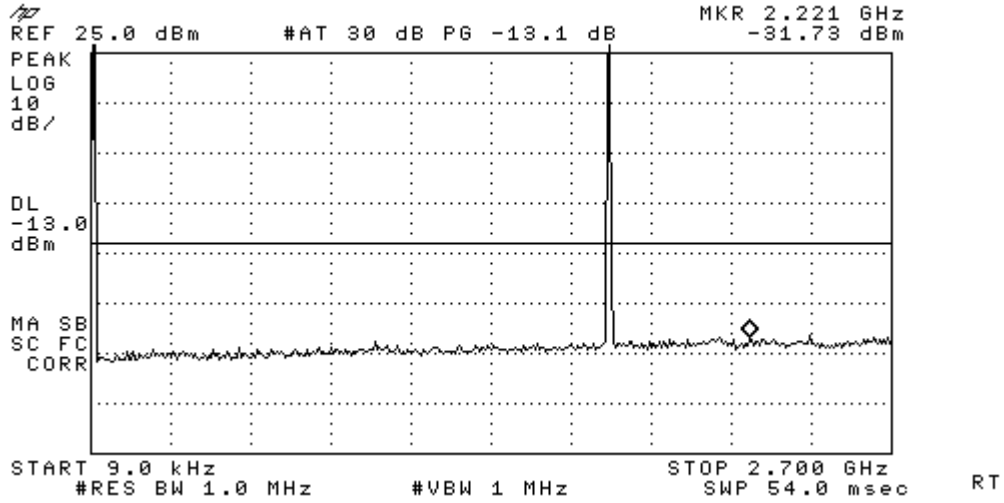
**Figure 7-3b CDMA 800 – Conducted Spurious Emission (CH 777)**



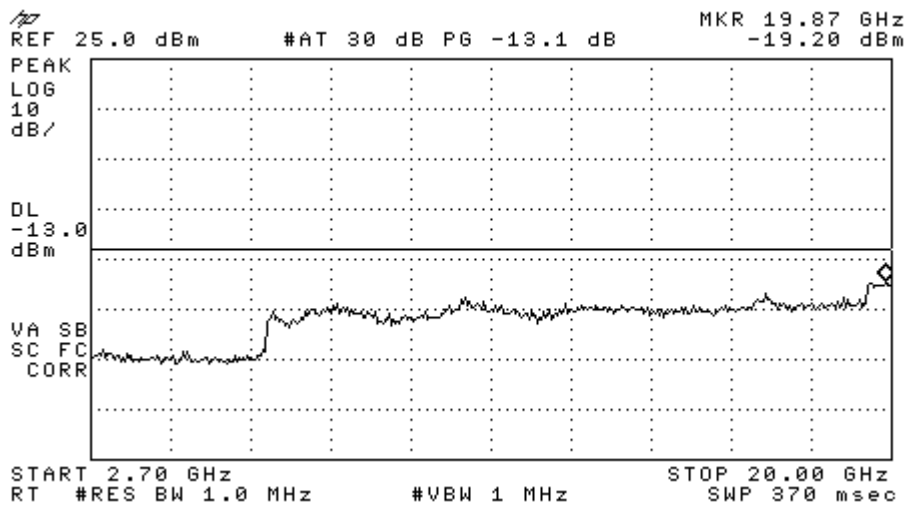
**Figure 7-4a AWS 1700 - Conducted Spurious Emission (CH 25)**



**Figure 7-4b AWS 1700 - Conducted Spurious Emission (CH 25)**

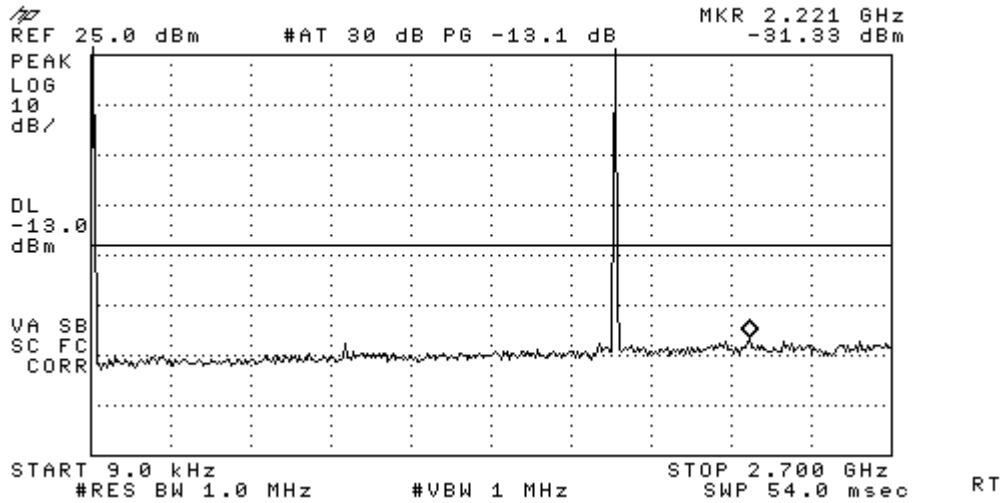


**Figure 7-5a AWS 1700 - Conducted Spurious Emission (CH 450)**

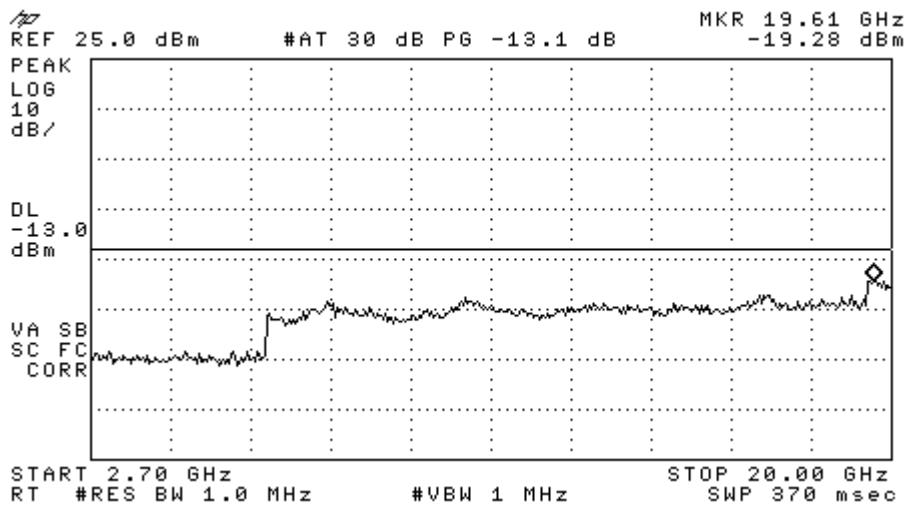


**Figure 7-5b AWS 1700 - Conducted Spurious Emission (CH 450)**





**Figure 7-6a AWS 1700 - Conducted Spurious Emission (CH 875)**



**Figure 7-6b AWS 1700 - Conducted Spurious Emission (CH 875)**

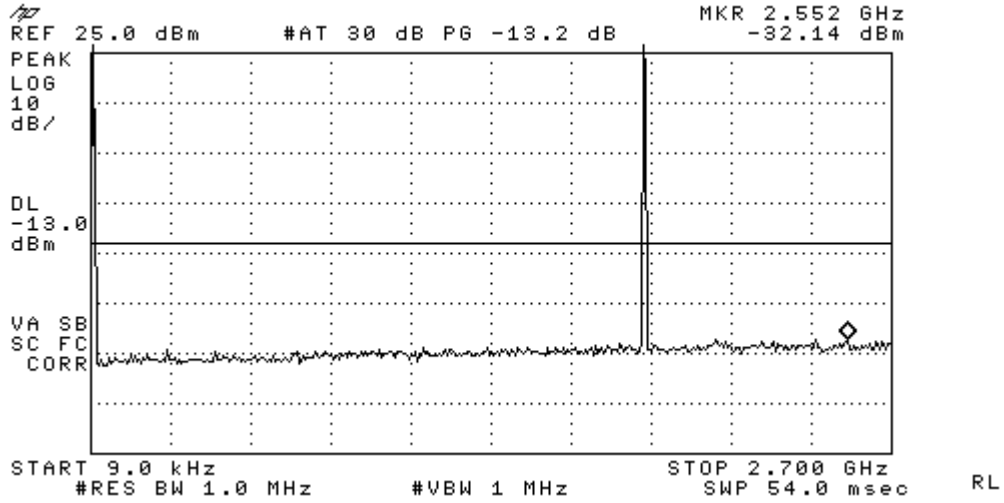


Figure 7-7a CDMA 1900 - Conducted Spurious Emission (CH 25)

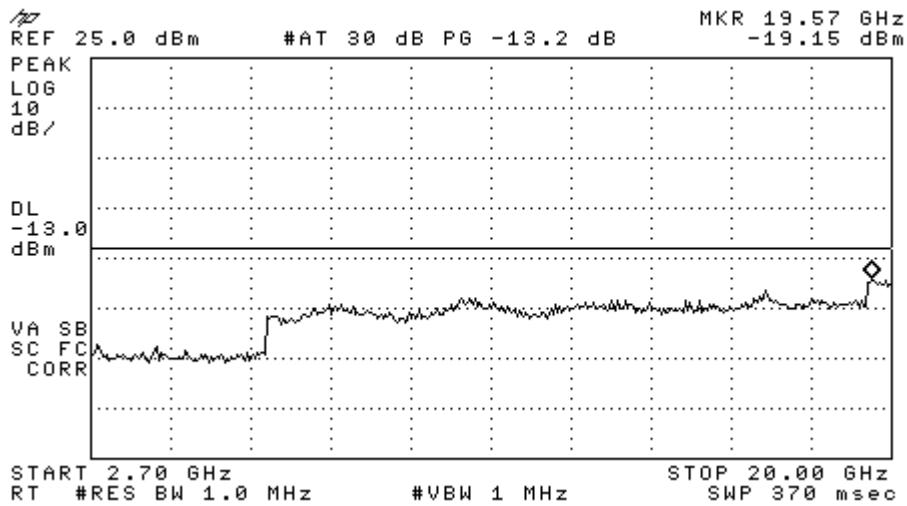


Figure 7-7b CDMA 1900 - Conducted Spurious Emission (CH 25)

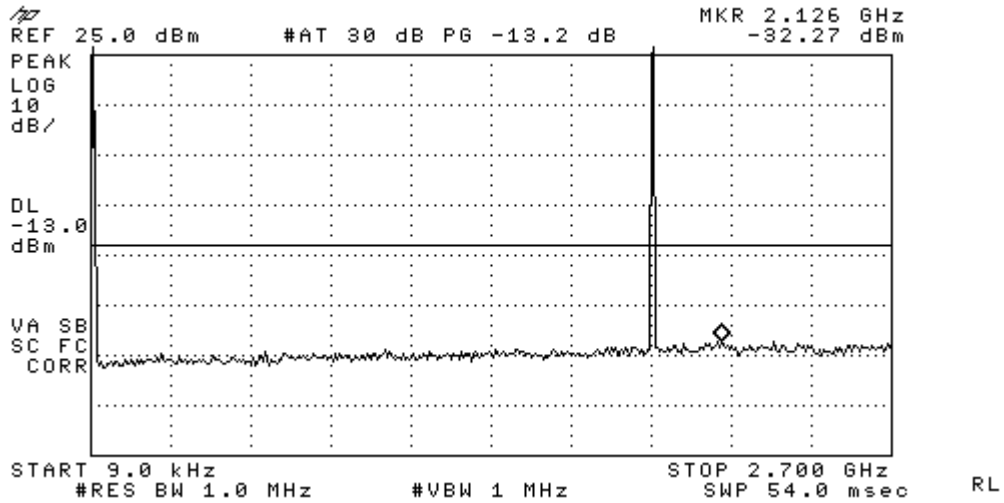


Figure 7-8a CDMA 1900 - Conducted Spurious Emission (CH 600)

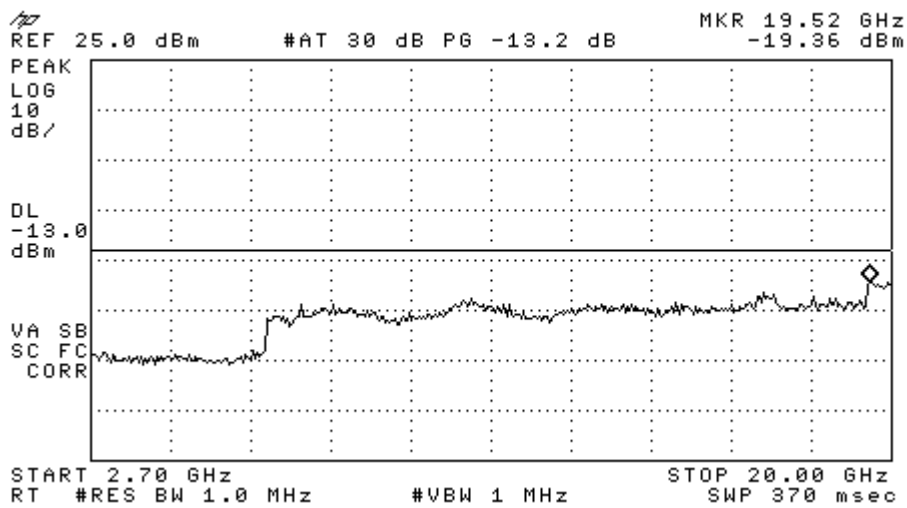


Figure 7-8b CDMA 1900 - Conducted Spurious Emission (CH 600)

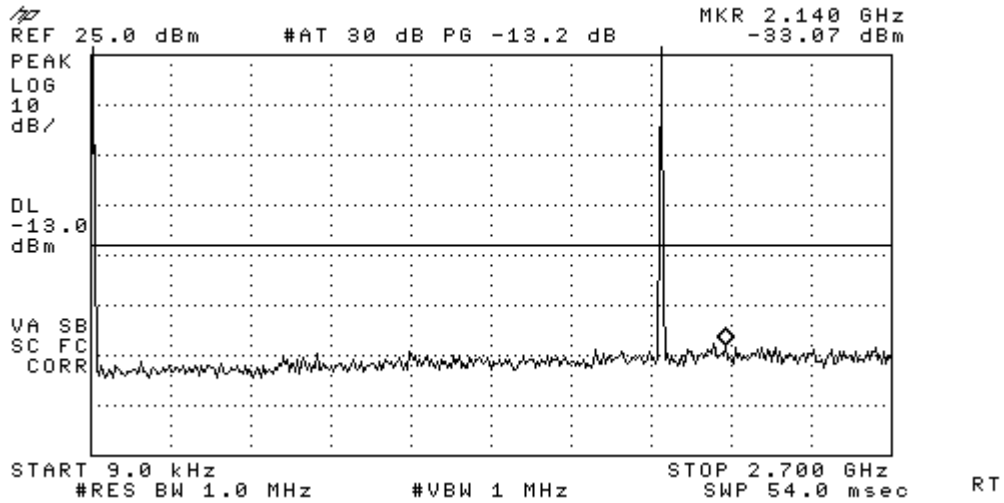


Figure 7-9a CDMA 1900 - Conducted Spurious Emission (CH 1175)

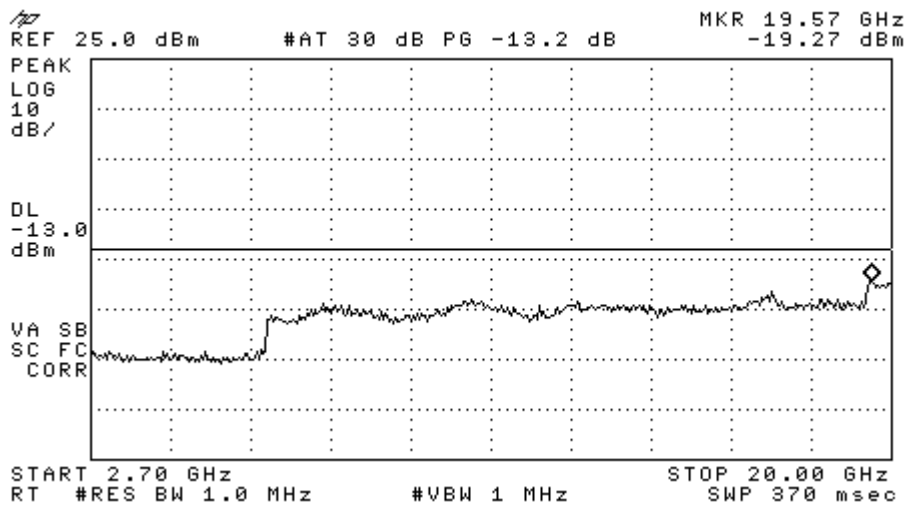


Figure 7-9b CDMA 1900 - Conducted Spurious Emission (CH 1175)

| Figure | Mode     | Channel | Plot Description   |
|--------|----------|---------|--|
| 7-10   | CDMA 800 | 1013    | Emissions in base station frequency range, 869 - 894 MHz |
| 7-11   |          | 383     | Emissions in base station frequency range, 869 - 894 MHz |
| 7-12   |          | 777     | Emissions in base station frequency range, 869 - 894 MHz |

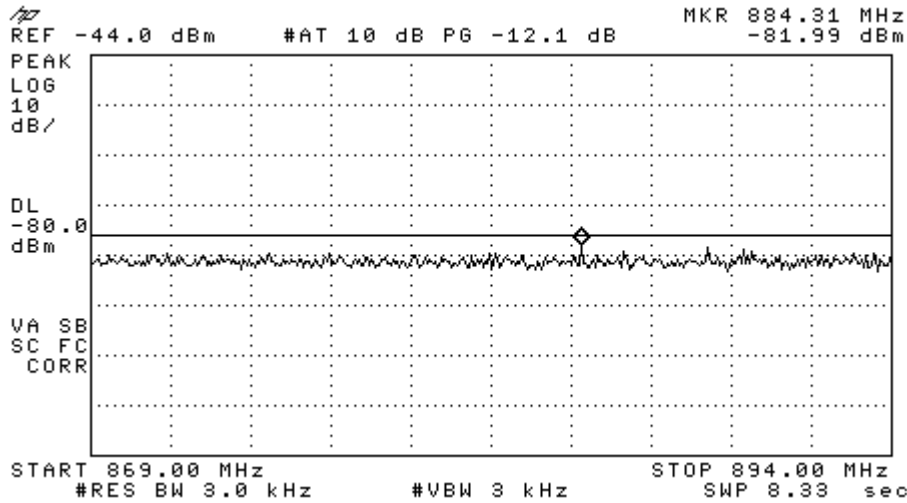


Figure 7-10 CDMA 800 - Emissions in base station frequency range (CH 1013)

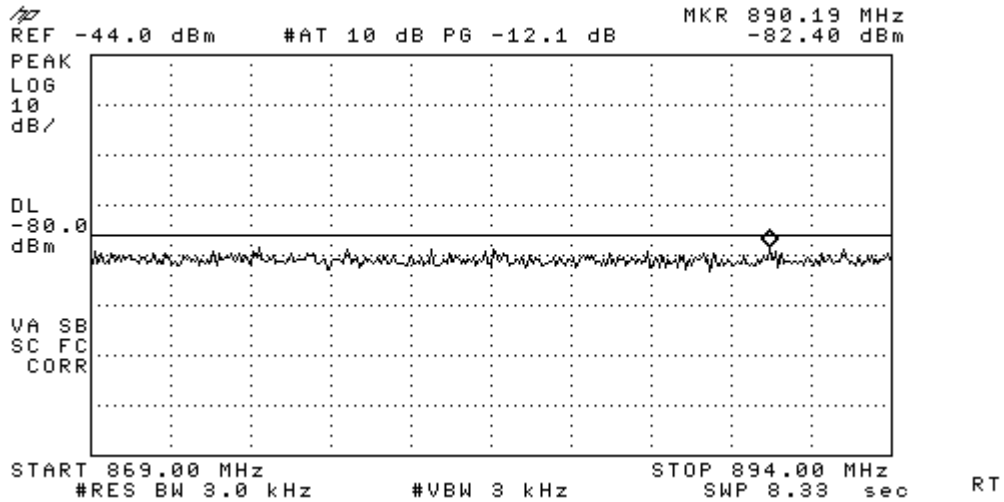


Figure 7-11 CDMA 800 - Emissions in base station frequency range (CH 383)

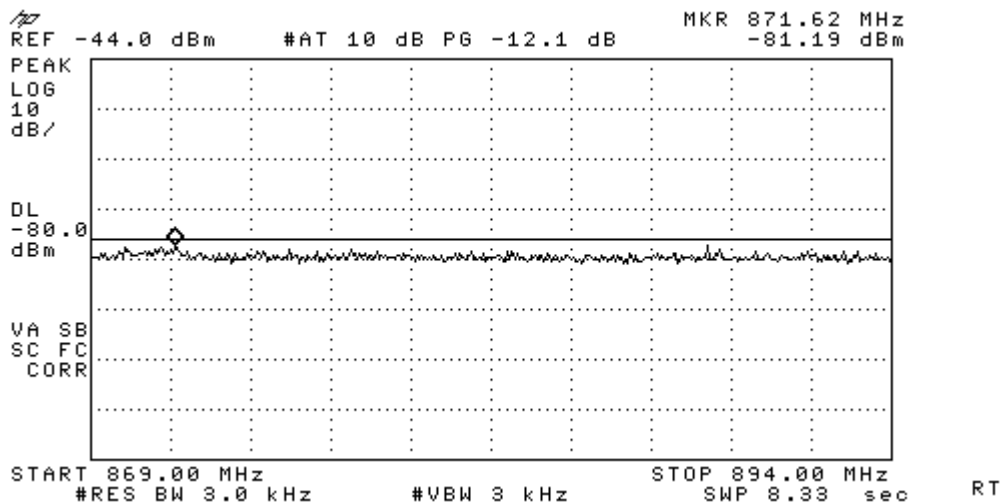


Figure 7-12 CDMA 800 - Emissions in base station frequency range (CH 777)

**8 Transmitter Radiated Spurious Emissions Measured Data**

|   |  |            |                                       |
|---|--|------------|---------------------------------------|
| <b>FCC:</b>   | § 2.1053, § 22.91, § 24.238, §27.53(g) | <b>IC:</b> | RSS-132, RSS-133 (6.3), RSS-139 (6.3) |
| <p><b>Measurement Procedures:</b></p> <p>The radiated spurious emission test was performed at Compliance Certification Service. The test report is attached in a separate attachment.</p> |  |            |                                       |

**9 Receiver Spurious Emissions**

|  |          |            |  |
|--|----------|------------|--|
| <b>FCC:</b>  | § 15.109 | <b>IC:</b> | RSS-132 (4.6), RSS-133 (6.6), RSS-139 (6.6), RSS-GEN |
| <p><b>Measurement Procedures:</b></p> <p>The receiver radiated spurious emission test was performed at Compliance Certification Service. The test report is attached in a separate attachment.</p> |          |            |  |

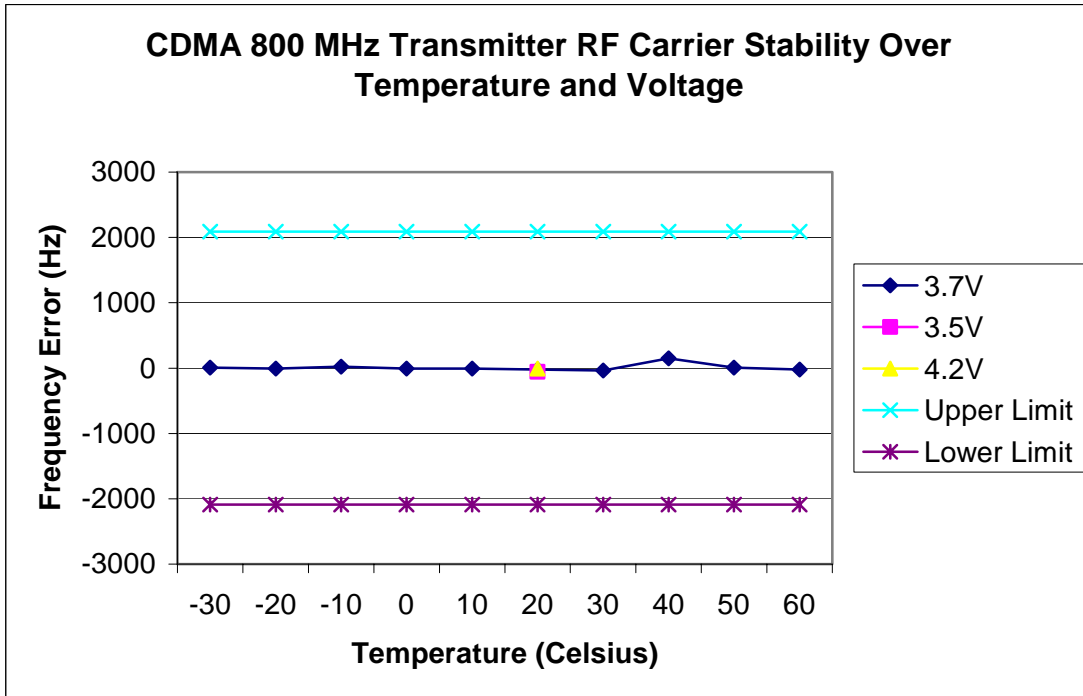
**10 Transmitter RF Carrier Frequency Stability**

|   |                                       |            |   |
|---|---------------------------------------|------------|---|
| <b>FCC:</b>   | § 2.1055, § 22.355, § 24.235, § 27.54 | <b>IC:</b> | RSS-132 (4.3), RSS-133 (6.3), RSS-139 (6.3) |
| <p><b>Measurement Procedures:</b></p> <p>The EUT was placed in an environmental chamber. The RF output of the EUT was connected to Agilent 8960 Series 10 E5515C. A power supplier was connected as primary voltage supply.</p> |                                       |            |   |

10.1 CDMA 800 Mode

|  |                       |
|--|-----------------------|
| <b>Tx Frequency :</b> 836.49 MHz             | <b>Voltage :</b> 3.7V |
| <b>Tolerance :</b> +/- 2.5 Ppm (+/- 2091 Hz) | <b>Ch :</b> 383       |

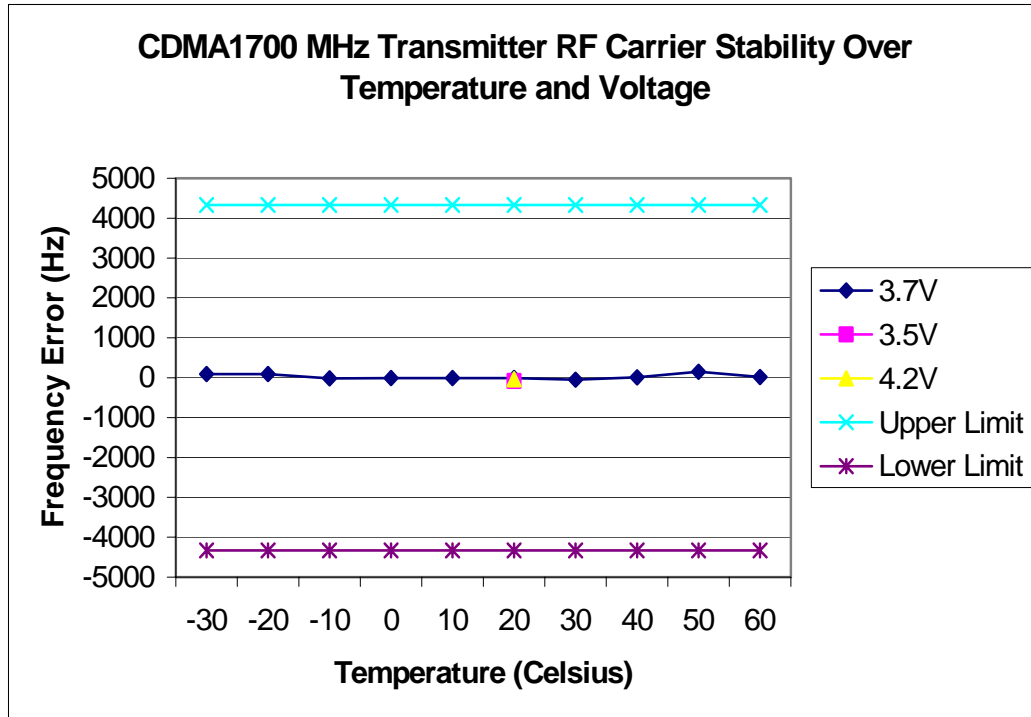
| Temperature (°C) | Deviation of Carrier (Hz) |        |              | Specification (Hz) |             |
|------------------|---------------------------|--------|--------------|--------------------|-------------|
|                  | 3.5V (Battery endpoint)   | 3.7V   | 4.26V (115%) | Lower limit        | Upper limit |
| -30              |                           | 8.65   |              | -2091              | 2091        |
| -20              |                           | -7.24  |              | -2091              | 2091        |
| -10              |                           | 23.67  |              | -2091              | 2091        |
| 0                |                           | -7.02  |              | -2091              | 2091        |
| 10               |                           | -6.58  |              | -2091              | 2091        |
| 20               | -56.88                    | -20.86 | -9.29        | -2091              | 2091        |
| 30               |                           | -39.1  |              | -2091              | 2091        |
| 40               |                           | 147.33 |              | -2091              | 2091        |
| 50               |                           | 8.02   |              | -2091              | 2091        |
| 60               |                           | -21    |              | -2091              | 2091        |



10.2 CDMA 1700 Mode

|   |                       |
|---|-----------------------|
| <b>Tx Frequency :</b> 1732.50 MHz           | <b>Voltage :</b> 3.7V |
| <b>Tolerance :</b> +/- 2.5 ppm (+/-4331 Hz) | <b>Ch :</b> 450       |

| Temperature (°C) | Deviation of Carrier (Hz) |        |              | Specification (Hz) |             |
|------------------|---------------------------|--------|--------------|--------------------|-------------|
|                  | 3.5V (Battery endpoint)   | 3.7V   | 4.26V (115%) | Lower limit        | Upper limit |
| -30              |                           | 87.33  |              | -4331              | 4331        |
| -20              |                           | 88.23  |              | -4331              | 4331        |
| -10              |                           | -13.9  |              | -4331              | 4331        |
| 0                |                           | -11.81 |              | -4331              | 4331        |
| 10               |                           | -8.65  |              | -4331              | 4331        |
| 20               | -84.98                    | -11.46 | -44.24       | -4331              | 4331        |
| 30               |                           | -52.4  |              | -4331              | 4331        |
| 40               |                           | 9.57   |              | -4331              | 4331        |
| 50               |                           | 147.33 |              | -4331              | 4331        |
| 60               |                           | 13.42  |              | -4331              | 4331        |

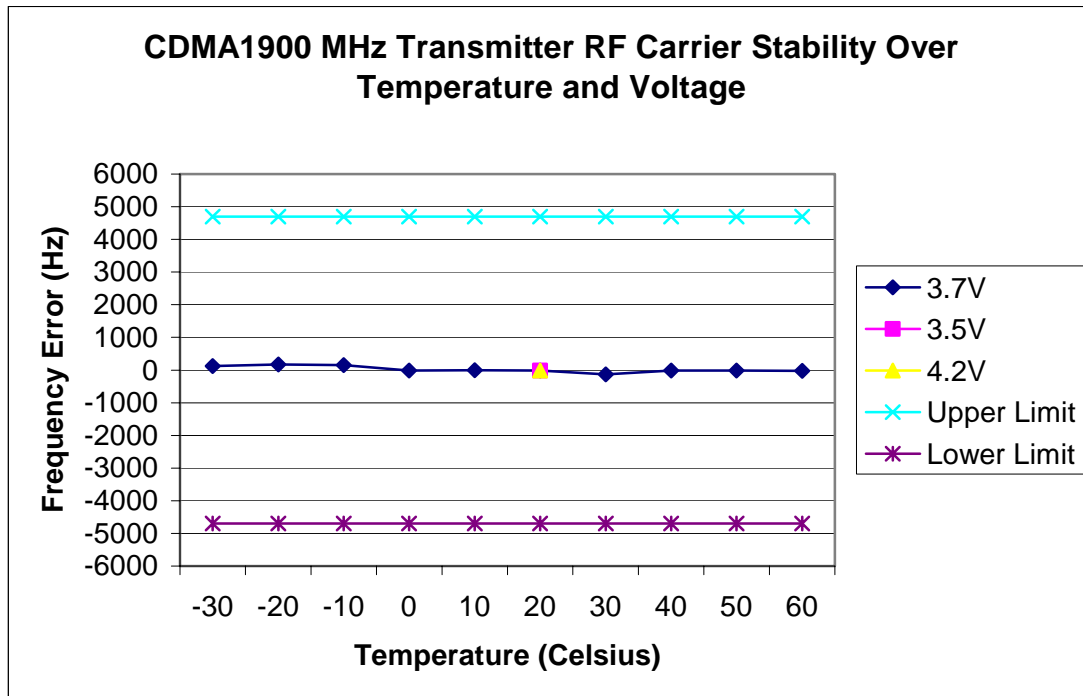




10.3 CDMA 1900 Mode

|   |                       |
|---|-----------------------|
| <b>Tx Frequency :</b> 1880 MHz              | <b>Voltage :</b> 3.7V |
| <b>Tolerance :</b> +/- 2.5 ppm (+/-4700 Hz) | <b>Ch :</b> 600       |

| Temperature (°C) | Deviation of Carrier (Hz) |         |              | Specification (Hz) |             |
|------------------|---------------------------|---------|--------------|--------------------|-------------|
|                  | 3.5V (Battery endpoint)   | 3.7V    | 4.26V (115%) | Lower limit        | Upper limit |
| -30              |                           | 122.99  |              | -4700              | 4700        |
| -20              |                           | 173.74  |              | -4700              | 4700        |
| -10              |                           | 149.33  |              | -4700              | 4700        |
| 0                |                           | -14.58  |              | -4700              | 4700        |
| 10               |                           | -8.92   |              | -4700              | 4700        |
| 20               | -11.91                    | -10.57  | -12.26       | -4700              | 4700        |
| 30               |                           | -128.44 |              | -4700              | 4700        |
| 40               |                           | -10.2   |              | -4700              | 4700        |
| 50               |                           | -11.35  |              | -4700              | 4700        |
| 60               |                           | -27.26  |              | -4700              | 4700        |



**11 Exposure of Humans to RF Fields (SAR)**

The SAR Test Report is showed in a separate attachment as Exhibit 9.

**12 Test Equipment**

| Description                      | Manufacturer    | Model Number     | Serial Number | Cal Due Date |
|----------------------------------|-----------------|------------------|---------------|--------------|
| Power Meter                      | Giga-tronics    | 8541C            | 1832048       | 08/15/09     |
| Spectrum Analyzer                | Hewlett Packard | 8593EM           | 3710A00203    | 03/04/10     |
| Spectrum Analyzer                | Hewlett Packard | 8595E            | 3911A03899    | 07/19/09     |
| Wireless Communications Test Set | Agilent         | 8960             | GB44052789    | 08/13/09     |
| Temperature Chamber              | Test Equity     | ZH2-033-033-H/AC | ZZ9622421     | 2/20/09      |