

# Test Report for FCC Part 2,22&24

*of*

*Product Name*

**Notebook Personal Computer**

*Model*

**A790**

*Applied by:*

MITAC Technology Corporation  
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Taiwan,R. O. C.

*Test Performed by:*

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**Report Number: ISL-06LR032FCP22**

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HC LAB: NVLAP:200234-0;VCCI: R-341,C-354; NEMKO:ELA 113A;BSMI:SL2-IN-E-0037;SL2-R1-E-0037;TAF:1178; IC:IC4067  
LT LAB: NVLAP:200234-0;VCCI: R-1435,C-1440;NEMKO:ELA 113B; BSMI:SL2-IN-E-0013;TAF:0997; IC:IC4164-1

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# 1. General

## 1.1 Certification of Accuracy of Test Data

**Standards:** CFR 47 Part 2  
CFR 47 Part 22H  
CFR 47 Part 24E

**Test Procedure:** EIA/TIA-603A

**Equipment Tested:** Notebook Personal Computer

**Model:** A790

**Applied by:** MITAC Technology Corporation

**Sample received Date:** 2006/10/18

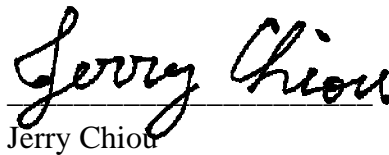
**Final test Date :** refer to the date of test data

**Test Result** **PASS**

**Test Site:** Chamber 02

**Reporter:** Ivy Yang

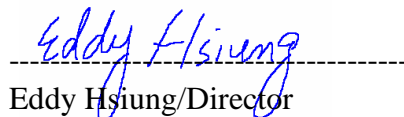
**Test Engineer:**

  
Jerry Chiou

All the tests in this report have been performed and recorded in accordance with the standards described above and performed by an independent electromagnetic compatibility consultant, International Standards Laboratory.

The test results contained in this report accurately represent the measurements of the characteristics and the energy generated by sample equipment under test at the time of the test. The sample equipment tested as described in this report is in compliance with the limits of above standards.

Approve & Signature

  
Eddy Hsiung/Director

Test results given in this report apply only to the specific sample(s) tested under stated test conditions. This report shall not be reproduced other than in full without the explicit written consent of ISL. This report totally contains 30 pages, including 1 cover page, 1 contents page, and 28 pages for the test description. This report must not be use to claim product endorsement by NVLAP or any agency of the U.S. Government.

This test data shown below is traceable to NIST or national or international standard. International Standards Laboratory certifies that no party to this application has been denied the FCC benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. 853(a).

## 2. Test Results Summary

The functions of EUT has been tested according to the FCC regulations listed below:

| Tested Standards: 47 CFR Part 2,22&24 |   |        |         |
|---------------------------------------|---|--------|---------|
| Standard Section                      | Test Type   | Result | Remarks |
| §2.1046<br>§22.913<br>§24.232         | Peak Power Output   | Pass   |         |
| §2.1049<br>§22.917<br>§24.238         | Occupied Bandwidth  | Pass   |         |
| §2.1049<br>§22.917<br>§24.238         | Spurious Emission At Antenna Terminals (+/-1MHz)                      | Pass   |         |
| §2.1051<br>§2.1053                    | Spurious emissions  | Pass   |         |
| §2.1055<br>§22.355<br>§24.235         | Frequency Stability Under Temperature Variations & Voltage Variations | Pass   |         |

### 3. Description of Equipment Under Test (EUT)

|                                 |   |
|---------------------------------|---|
| Product Name                    | Notebook Personal Computer  |
| Model No.                       | A790  |
| TX Frequency                    | 824MHz~849MHz(CDMA800)<br>1850MHz ~ 1910MHz(CDMA1900)   |
| Rx Frequency                    | 869MHz~894MHz(CDMA800)<br>1930MHz ~ 1990MHz(CDMA1900)   |
| ESN No.                         | 602D69F3  |
| Antenna Type                    | Internal  |
| Maximum Power(conducted)        | CDMA800: 23.09dBm<br>CDMA1900: 23.24dBm   |
| Maximum ERP/EIRP                | <b>CDMA800: 20.31dBm</b><br><b>CDMA1900: 21.94dBm</b>   |
| Battery Pack                    | MITAC (Model: BP-LC2400/34-01S1), 11.1Vdc,<br>9600mAh   |
| Power Adapter                   | Auto Switching AC Adapter100-240V,1.2A 50-60Hz<br>EPS (Model: F10903-A)                           |
| Emission designators            | 1M25F9W<br>CDMA800:<br>EUT transmitting Max. power<br>DC:19V , 1.30A<br>EUT idle<br>DC:19V, 1.18A |
| Voltage and Current in final PA | CDMA1900:<br>EUT transmitting Max. power<br>DC:19V , 1.28A<br>EUT idle<br>DC:19V, 1.18A           |
| Note                            | EUT does not support voice service.   |

## 4. TEST RESULTS (CDMA800/1900)

### 4.1 Peak Power Output [Section 2.1046, 22.913(a), 24.232(b)]

#### 4.1.1 Test Procedure(Conducted)

1. The Transmitter output of EUT was connected to the Base Simulator
2. Base Simulator setting is listed below:.

|                    |  |
|--------------------|--|
| Channels Tested:   | Ch 1014 (824.73MHz)<br>Ch 380 (836.4MHz)<br>Ch 773 (848.19MHz)<br>Ch 25 (1851.25MHz)<br>Ch 600 (1880.0MHz)<br>Ch 1175 (1908.75MHz) |
| Detector Function: | Peak Power Mode  |

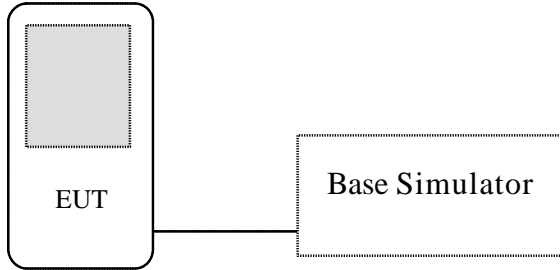
#### 4.1.2 Test Procedure(Radiated)

1. The equipment under test was set up on the 10 meter chamber with measurement distance of 3 meters. The EUT was placed on a non-conductive table 150cm above ground.
2. Any changes made to the configuration, or modifications made to the EUT, during testing are noted in the following test record.
3. The maximum readings by varying the height of antenna from 1~4meters and then rotating the turntable were recorded. Both polarization of antenna, horizontal and vertical with EUT' s X, Y Z axis, were measured.
4. Base Simulator setting is listed below:.

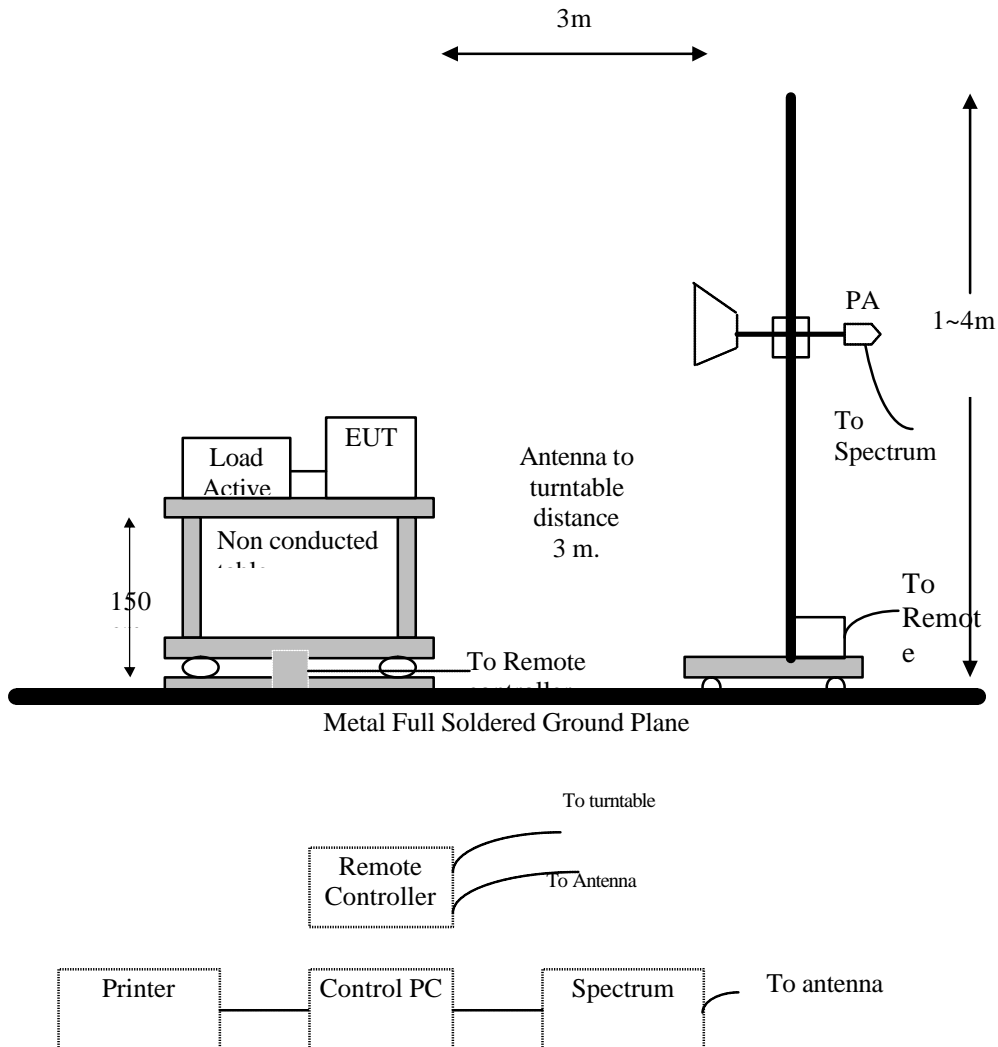
|                             |  |
|-----------------------------|--|
| Channels Tested:            | Ch 1014 (824.73MHz)<br>Ch 380 (836.4MHz)<br>Ch 773 (848.19MHz)<br>Ch 25 (1851.25MHz)<br>Ch 600 (1880.0MHz)<br>Ch 1175 (1908.75MHz) |
| Detector Function:          | Peak Power Mode  |
| Span:                       | 100MHz   |
| Resolution Bandwidth (RBW): | 1MHz   |
| Video Bandwidth (VBW)       | 3MHz   |
| Sweep Time                  | 500ms  |

### 4.1.3 Test Setup

#### ■ General Conducted Test Configuration



#### ■ General Radiation Test Configuration



#### 4.1.4 Test Data:

##### ■ Maximum Peak Output Power(Conducted)

CDMA800 EVDO

FTAP

| Chennel | Frequency | Reading | Path loss | Results (ERP) |       | Limit | Pass/Fail |
|---------|-----------|---------|-----------|---------------|-------|-------|-----------|
|         | (MHz)     | (dBm)   | (dB)      | (dBm)         | (W)   | (W)   |           |
| 1014    | 824.73    | 21.80   | 0.8       | 22.60         | 0.182 | 7     | Pass      |
| 380     | 836.40    | 22.29   | 0.8       | 23.09         | 0.204 | 7     | Pass      |
| 773     | 848.19    | 21.20   | 0.8       | 22.00         | 0.159 | 7     | Pass      |

##### ■ Maximum Peak Output Power(Conducted)

CDMA 1900 EVDO

FTAP

| Chennel | Chennel | Reading | Path loss | Results (ERP) |       | Limit | Pass/Fail |
|---------|---------|---------|-----------|---------------|-------|-------|-----------|
|         |         | (dBm)   | (dB)      | (dBm)         | (W)   | (W)   |           |
| 25      | 1851.25 | 21.74   | 1.5       | 23.24         | 0.211 | 2     | Pass      |
| 600     | 1880.0  | 21.56   | 1.5       | 23.06         | 0.202 | 2     | Pass      |
| 1175    | 1908.75 | 20.85   | 1.5       | 22.35         | 0.172 | 2     | Pass      |

##### ■ Maximum Peak Output Power(Conducted)

CDMA800 EVDO

RTAP

| Chennel | Frequency | Reading | Path loss | Results (ERP) |       | Limit | Pass/Fail |
|---------|-----------|---------|-----------|---------------|-------|-------|-----------|
|         | (MHz)     | (dBm)   | (dB)      | (dBm)         | (W)   | (W)   |           |
| 1014    | 824.73    | 21.67   | 0.8       | 22.47         | 0.177 | 7     | Pass      |
| 380     | 836.40    | 21.95   | 0.8       | 22.75         | 0.188 | 7     | Pass      |
| 773     | 848.19    | 21.17   | 0.8       | 21.97         | 0.157 | 7     | Pass      |

##### ■ Maximum Peak Output Power(Conducted)

CDMA 1900 EVDO

RTAP

| Chennel | Chennel | Reading | Path loss | Results (ERP) |       | Limit | Pass/Fail |
|---------|---------|---------|-----------|---------------|-------|-------|-----------|
|         |         | (dBm)   | (dB)      | (dBm)         | (W)   | (W)   |           |
| 25      | 1851.25 | 21.44   | 1.5       | 22.94         | 0.197 | 2     | Pass      |
| 600     | 1880.0  | 21.04   | 1.5       | 22.54         | 0.179 | 2     | Pass      |
| 1175    | 1908.75 | 20.09   | 1.5       | 21.59         | 0.144 | 2     | Pass      |



■ **Maximum Peak Output Power(Radiated)**

CDMA800 EVDO

| Chennel | Frequency<br>(MHz) | Raw<br>Results<br>(dBm) | Correction<br>factor<br>(dB) | Results (ERP) |       | Limit<br>(W) | Pass/Fail |
|---------|--------------------|-------------------------|------------------------------|---------------|-------|--------------|-----------|
|         |                    |                         |                              | (dBm)         | (W)   |              |           |
| 1014    | 824.73             | -15.68                  | 32.04                        | 16.36         | 0.043 | 7            | Pass      |
| 380     | 836.40             | -13.90                  | 32.04                        | 18.14         | 0.065 | 7            | Pass      |
| 773     | 848.19             | -11.73                  | 32.04                        | 20.31         | 0.151 | 7            | Pass      |

■ **Maximum Peak Output Power(Radiated)**

CDMA 1900 EVDO

| Chennel | Chennel | Raw<br>Results<br>(dBm) | Correction<br>factor<br>(dB) | Results (EIRP) |       | Limit<br>(W) | Pass/Fail |
|---------|---------|-------------------------|------------------------------|----------------|-------|--------------|-----------|
|         |         |                         |                              | (dBm)          | (W)   |              |           |
| 25      | 1851.25 | -17.77                  | 39.71                        | 21.94          | 0.156 | 2            | Pass      |
| 600     | 1880.0  | -18.92                  | 39.71                        | 20.79          | 0.112 | 2            | Pass      |
| 1175    | 1908.75 | -20.73                  | 39.71                        | 18.98          | 0.079 | 2            | Pass      |

Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz。
2. Correction factor = Substitution SG Level + Antenna Gain - Cable Loss – Rx. level。
3. ERP/EIRP Value = Raw Results + Correction factor。

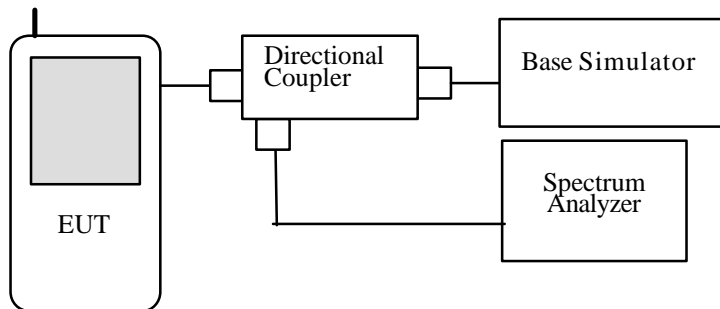
## 4.2 Occupied Bandwidth [Section 2.1049, 22.917(b),24.238(b) ]

### 4.2.1 Test Procedure

1. The Transmitter output of EUT was connected to the Spectrum analyzer through the directional coupler.
2. Spectrum analyzer setting is listed below:

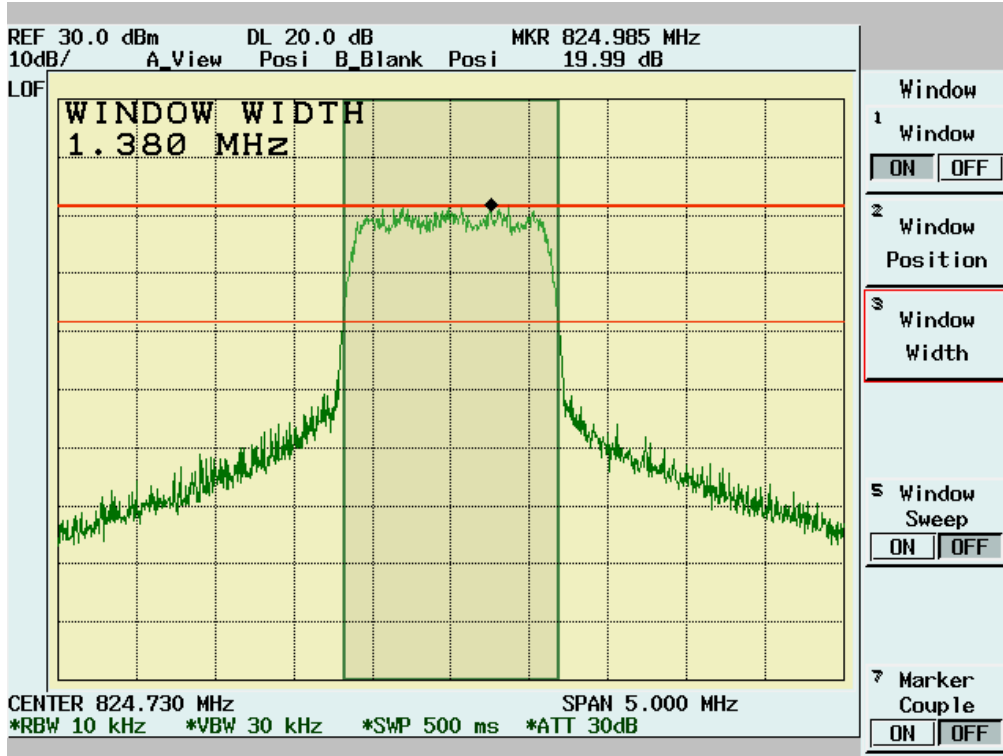
|                             |  |
|-----------------------------|--|
| Channels Tested:            | Ch 1014 (824.73MHz)<br>Ch 380 (836.4MHz)<br>Ch 773 (848.19MHz)<br>Ch 25 (1851.25MHz)<br>Ch 600 (1880.0MHz)<br>Ch 1175 (1908.75MHz) |
| Detector Function:          | Peak Mode  |
| Span:                       | 5MHz   |
| Resolution Bandwidth (RBW): | 10kHz  |
| Video Bandwidth (VBW)       | 30kHz  |
| Sweep Time                  | 500ms  |

### 4.2.2 Test Setup

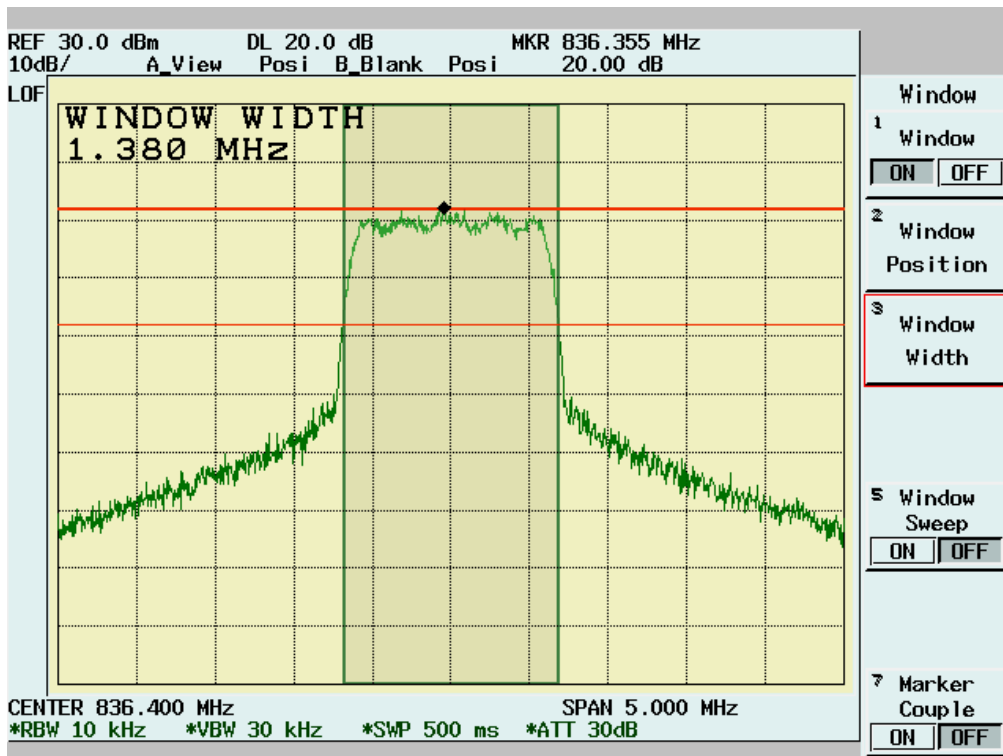


### 4.2.3 Test Data

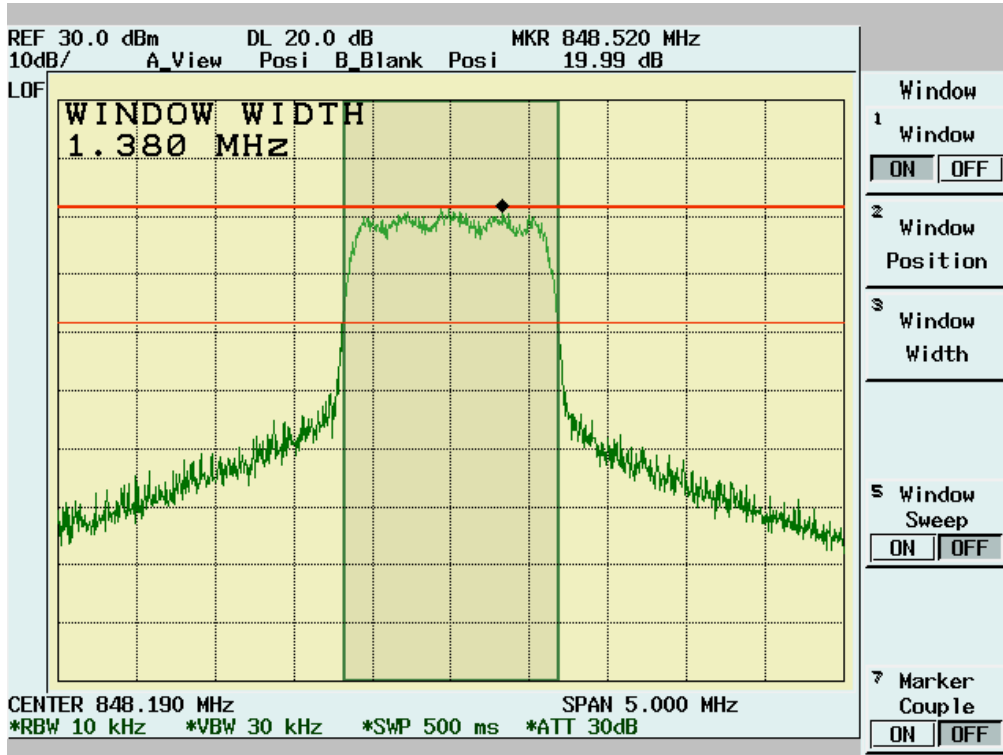
#### CDMA 800 CH1014



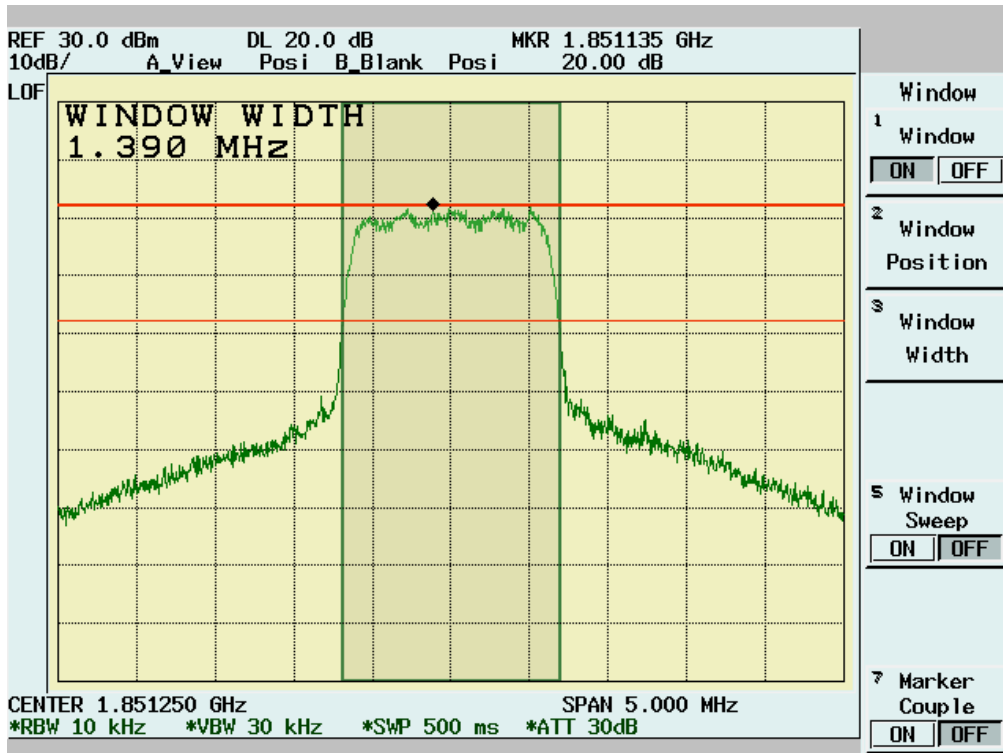
#### CDMA 800 CH380



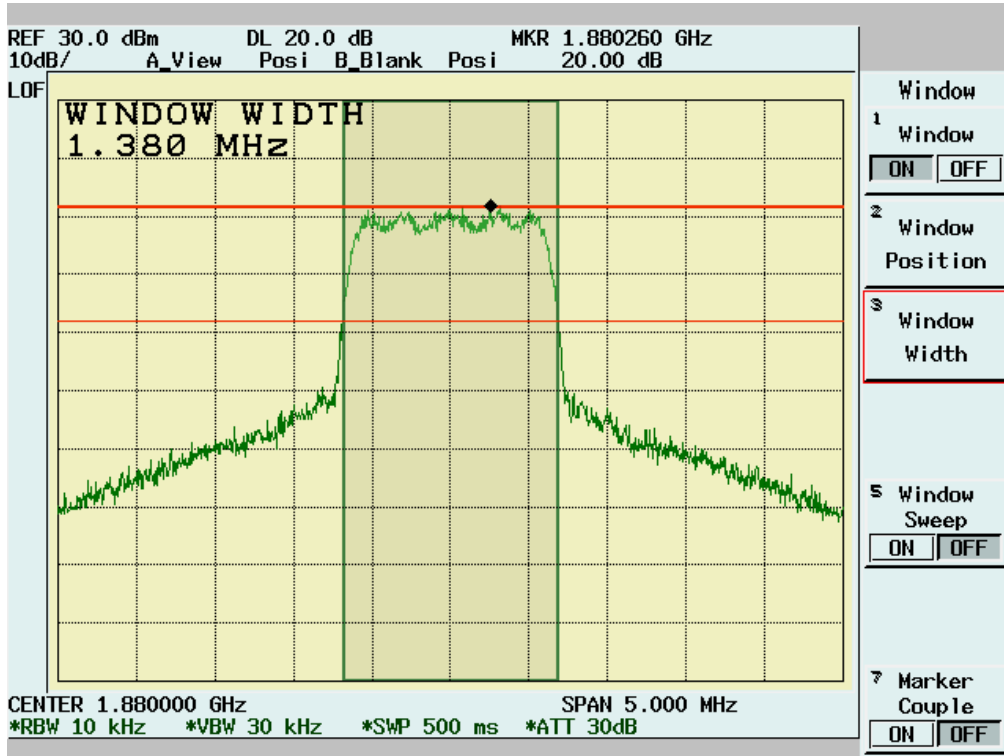
CDMA 800 CH773



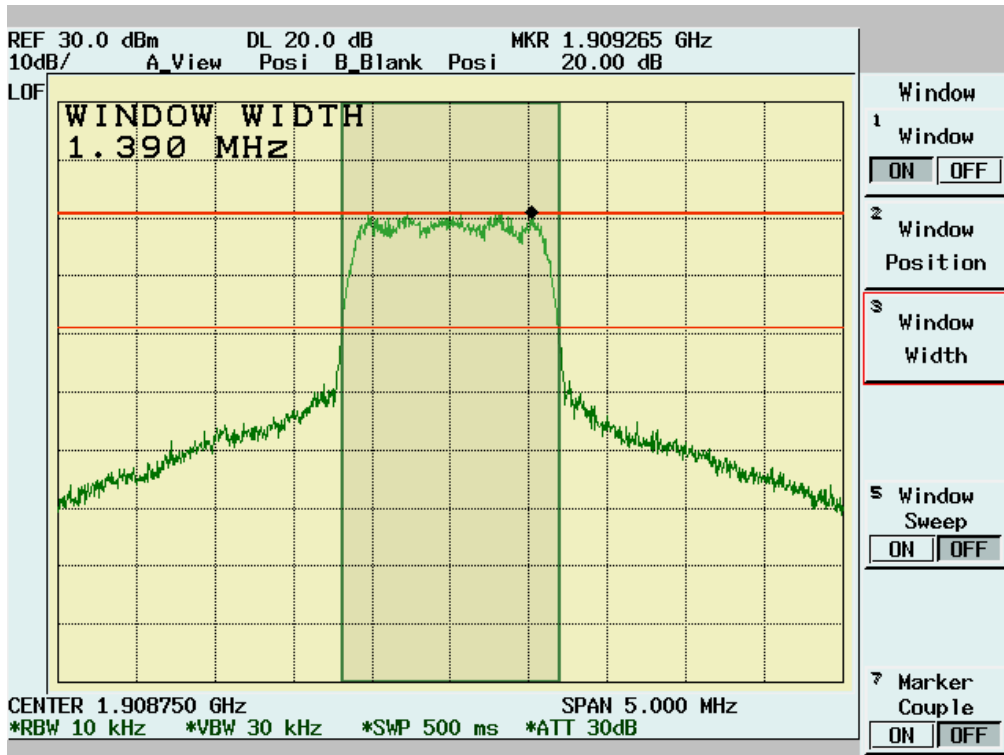
CDMA 1900 CH25



CDMA 1900 CH600



CDMA 1900 CH1175



### 4.3 Spurious Emission At Antenna Terminals (+/-1MHz)

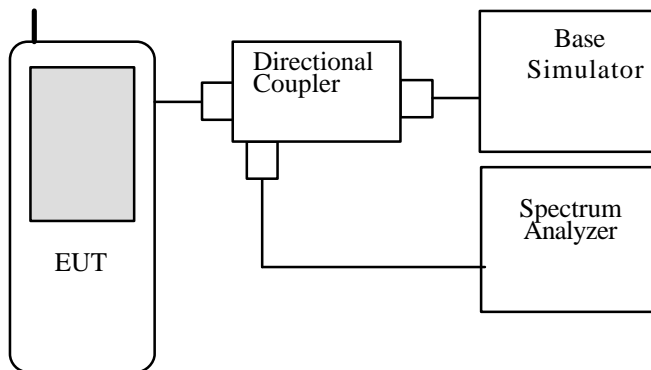
[Section 2.1049, 22.917, 24.238]

#### 4.3.1 Test Procedure

1. The Transmitter output of EUT was connected to the Spectrum analyzer through the directional coupler.
2. Spectrum analyzer setting is listed below:

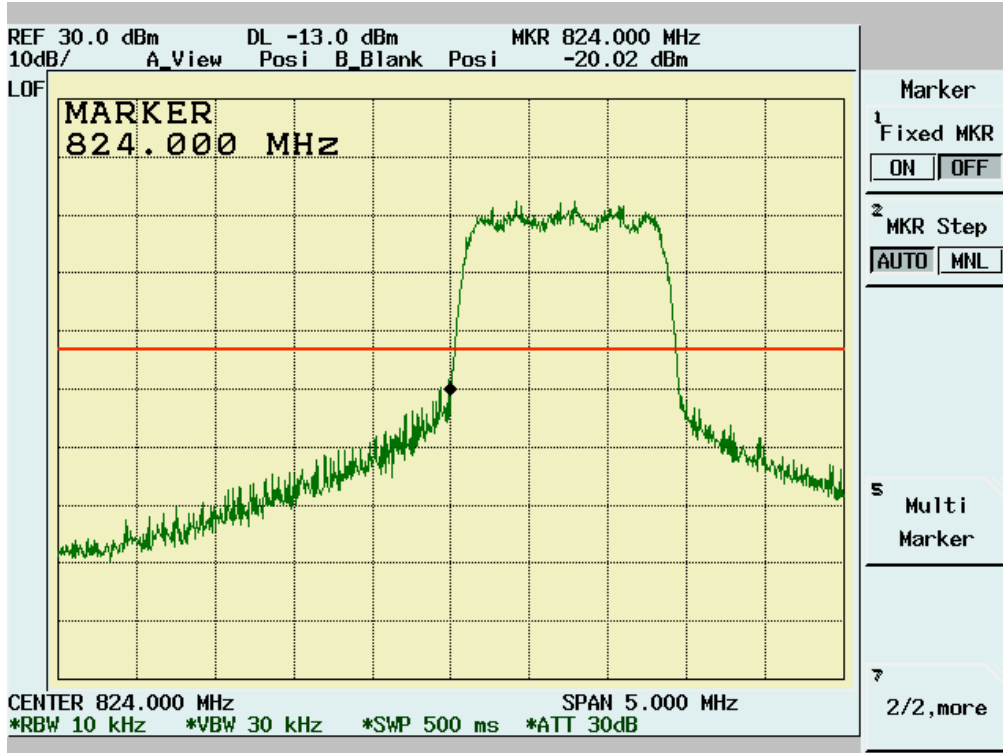
|                             |  |
|-----------------------------|--|
| Channels Tested:            | CDMA800:<br>Low Ch 1014 (824.73MHz)<br>High Ch 773 (848.19MHz)<br>CDMA1900:<br>Low Ch 25 (1851.25MHz)<br>High Ch 1175 (1908.75MHz) |
| Detector Function:          | Peak Mode  |
| Span:                       | 5MHz   |
| Resolution Bandwidth (RBW): | 10kHz  |
| Video Bandwidth (VBW)       | 30kHz  |
| Sweep Time                  | 500ms  |

#### 4.3.2 Test Setup

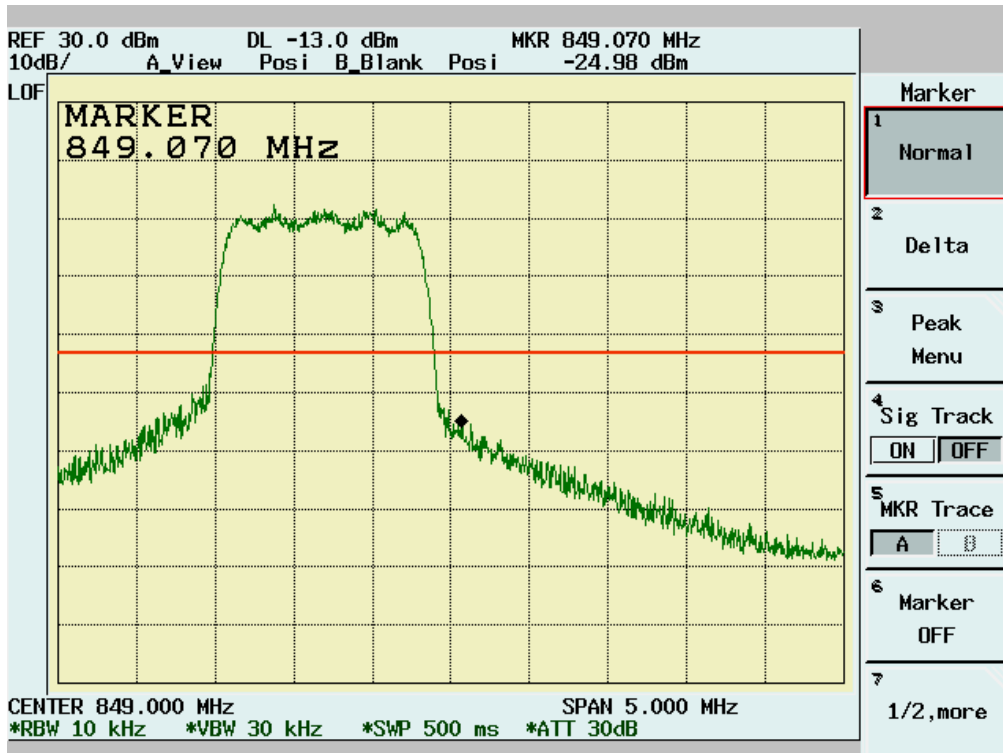


4.3.3 Test Data

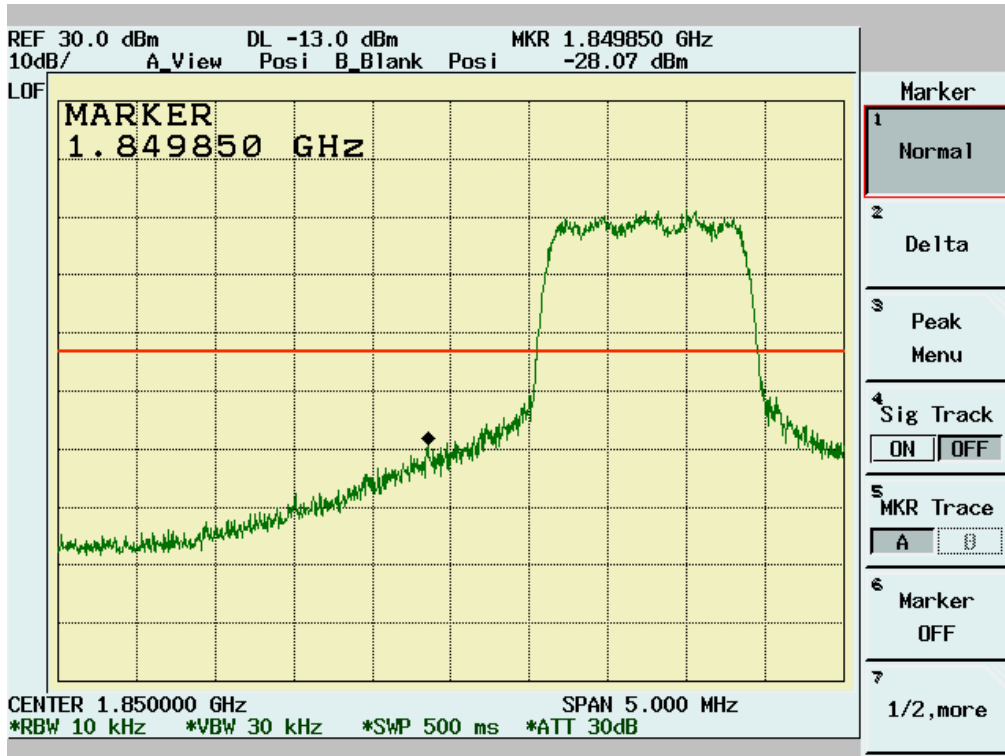
CDMA 800 CH1014



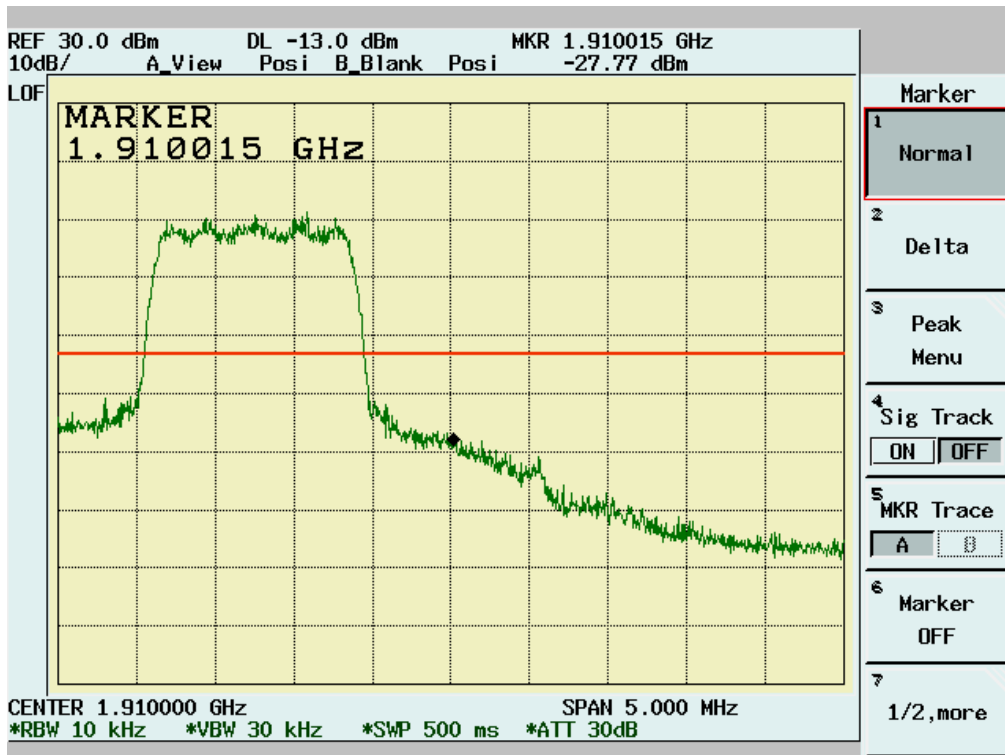
CDMA 800 CH773



CDMA 1900 CH25



CDMA 1900 CH1175





#### 4.4 Spurious Emission Measurement [Section 2.1051,2.1053, 22.917(a), 24.238(b)]

##### 4.4.1 Test Procedure(Conducted)

1. The Transmitter output of EUT was connected to the Spectrum analyzer through the directional coupler.
2. For the test of 2<sup>nd</sup> to 10<sup>th</sup> harmonics frequencies , the frequencies were tested using Peak mode.
3. Spectrum analyzer setting is listed below:

|                             |  |
|-----------------------------|--|
| Channels Tested:            | CDMA800:<br>Ch 380 (836.4MHz)<br>CDMA1900:<br>Ch 600 (1880.0MHz) |
| Detector Function:          | Peak Power Mode  |
| Span:                       | 4000MHz  |
| Resolution Bandwidth (RBW): | 1MHz   |
| Video Bandwidth (VBW)       | 3MHz   |
| Sweep Time                  | 500ms  |

##### 4.4.2 Test Procedure(Radiated)

1. The equipment under test was set up on the 10 meter chamber with measurement distance of 3 meters. The EUT was placed on a non-conductive table 150cm above ground.
2. Any changes made to the configuration, or modifications made to the EUT, during testing are noted in the following test record.

The system was set up as described above, with the EMI diagnostic software running. We found the maximum readings by varying the height of antenna and then rotating the turntable. Both polarization of antenna, horizontal and vertical, are measured.

3. 30M to 1GHz: The highest emissions between 30 MHz to 1000 MHz were also analyzed in details by operating the spectrum analyzer and/or EMI receiver in quasi-peak mode to determine the precise amplitude of the emissions. While doing so, the interconnecting cables and major parts of the system were moved around, the antenna height was varied between one and four meters, its polarization was varied between vertical and horizontal, and the turntable was slowly rotated, to maximize the emission.
4. 1GHz – 20GHz: The highest emissions were also analyzed in details by operating the spectrum analyzer and/or EMI receiver in peak mode to determine the precise amplitude of the emission. While doing so, the interconnecting cables and major parts of the system were moved around, the antenna height was varied between one and four meters, its polarization was varied between vertical and horizontal, and the turntable was slowly rotated, to maximize the emission. During test the EMI receiver and spectrum was setup according to EMI Receiver/Spectrum Analyzer Configuration.
5. For the test of 2<sup>nd</sup> to 10<sup>th</sup> harmonics frequencies, the frequencies were tested using Peak mode.

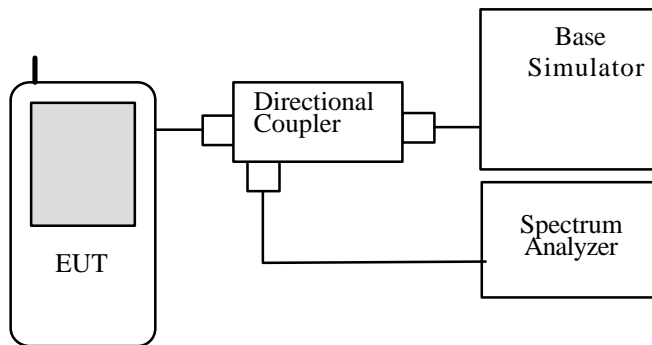
6. Spectrum analyzer setting is listed below:

|                             |               |
|-----------------------------|---------------|
| Frequency Range Tested:     | 30MHz~1000MHz |
| Detector Function:          | Peak Mode     |
| Resolution Bandwidth (RBW): | 120KHz        |
| Video Bandwidth (VBW)       | 1MHz          |

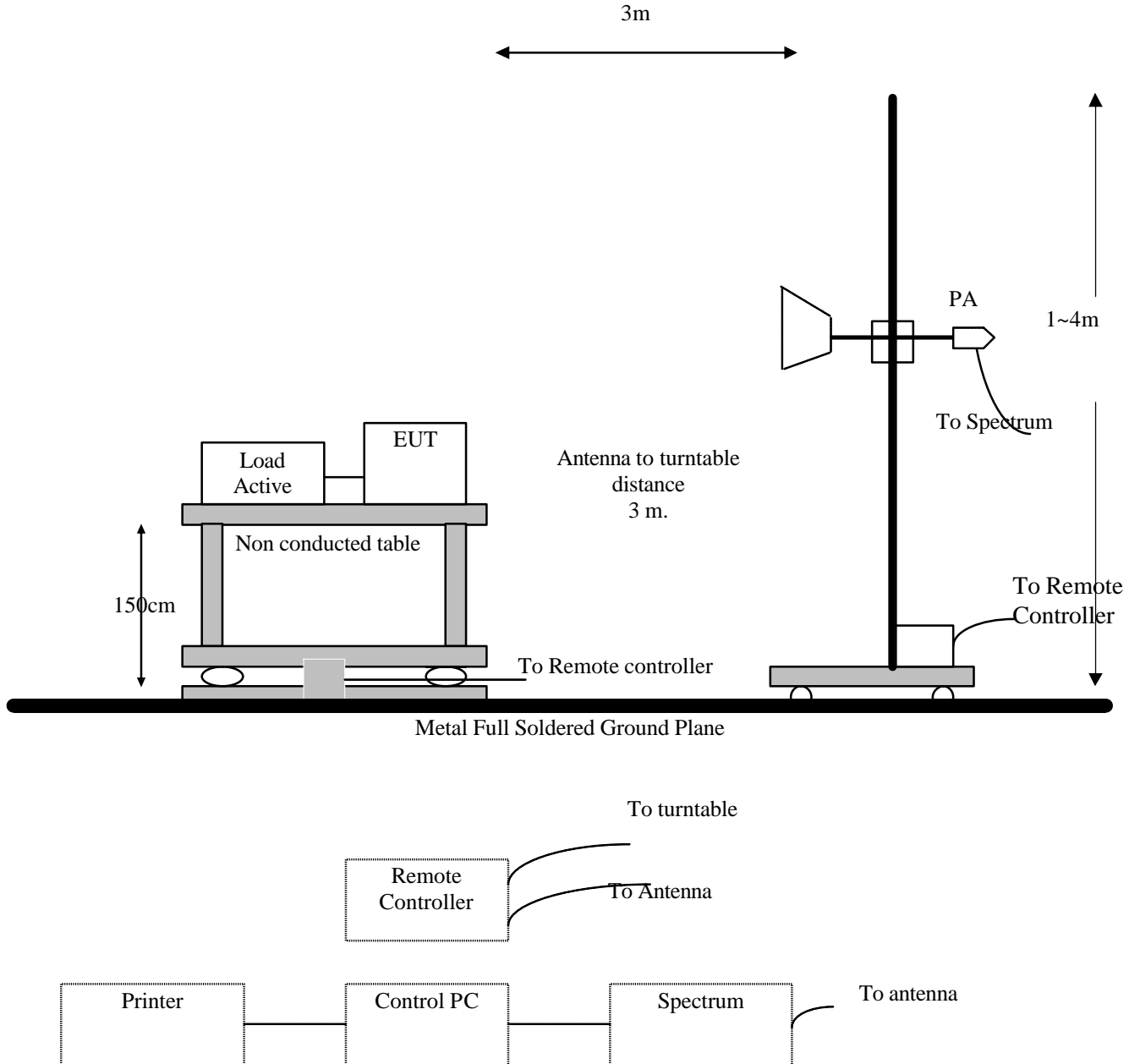
|                             |               |
|-----------------------------|---------------|
| Frequency Range Tested:     | 1GHz – 20 GHz |
| Detector Function:          | Peak Mode     |
| Resolution Bandwidth (RBW): | 1MHz          |
| Video Bandwidth (VBW)       | 3MHz          |

### 4.4.3 Test Setup

#### General Conducted Test Configuration



### General Radiation Test Configuration



#### 4.4.4 Test Data (Conducted):

##### 9kHz – 10GHz Conducted Emissions Channel 380

CDMA 800

| Frequency | Reading Level | Path loss | Results | Limit | Pass/Fail |
|-----------|---------------|-----------|---------|-------|-----------|
| (MHz)     | (dBm)         | (dB)      | (dBm)   | (dBm) |           |
| 1690      | -37.86        | 1.55      | -36.31  | -13   | Pass      |
| 2533      | -44.92        | 2.11      | -42.81  | -13   | Pass      |
| 3379      | -41.02        | 3.23      | -37.79  | -13   | Pass      |
| 4224      | -46.73        | 3.57      | -43.16  | -13   | Pass      |

##### 9kHz – 20GHz Conducted Emissions Channel 600

CDMA 1900

| Frequency | Reading Level | Path loss | Results | Limit | Pass/Fail |
|-----------|---------------|-----------|---------|-------|-----------|
| (MHz)     | (dBm)         | (dB)      | (dBm)   | (dBm) |           |
| 3760      | -32.73        | 3.52      | -29.21  | -13   | Pass      |
| 5636      | -43.49        | 3.43      | -40.06  | -13   | Pass      |
| 7561      | -37.95        | 3.91      | -34.04  | -13   | Pass      |
| 9392      | -49.72        | 4.57      | -45.15  | -13   | Pass      |
| 11276     | -51.31        | 4.09      | -47.22  | -13   | Pass      |
| 15032     | -51.94        | 4.97      | -46.97  | -13   | Pass      |

#### 4.4.5 Test Data ( Radiated) .

##### 30M – 10GHz Open Field Radiated Emissions (Horizontal ) Channel 380

CDMA 800

| Frequency | Raw Results | Correction factor | Results (ERP) | Limit | Pass/Fail |
|-----------|-------------|-------------------|---------------|-------|-----------|
| (MHz)     | (dBm)       | (dB)              | (dBm)         | (dBm) |           |
| 1672      | -62.75      | 4.24              | -58.51        | -13   | Pass      |
| 2509      | -65.46      | 7.72              | -57.74        | -13   | Pass      |
| 3348      | -65.52      | 9.30              | -56.22        | -13   | Pass      |
| 4182      | -65.33      | 9.67              | -55.66        | -13   | Pass      |

##### 30M – 10GHz Open Field Radiated Emissions (Vertical ) Channel 380

CDMA 800

| Frequency | Raw Results | Correction factor | Results (ERP) | Limit | Pass/Fail |
|-----------|-------------|-------------------|---------------|-------|-----------|
| (MHz)     | (dBm)       | (dB)              | (dBm)         | (dBm) |           |
| 1672      | -56.09      | 4.24              | -51.85        | -13   | Pass      |
| 2509      | -64.96      | 7.72              | -57.24        | -13   | Pass      |
| 3348      | -65.15      | 9.30              | -55.85        | -13   | Pass      |
| 4182      | -65.34      | 9.67              | -55.67        | -13   | Pass      |

Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz。
2. Correction factor = Substitution SG Level + Antenna Gain - Cable Loss – Rx. level。
3. ERP/EIRP Value = Raw Results + Correction factor。

**30M – 20GHz Open Field Radiated Emissions (Horizontal ) Channel 600**

CDMA 1900

| Frequency | Raw Results | Correction factor | Results (EIRP) | Limit | Pass/Fail |
|-----------|-------------|-------------------|----------------|-------|-----------|
| (MHz)     | (dBm)       | (dB)              | (dBm)          | (dBm) |           |
| 3.76      | -56.53      | 11.04             | -45.49         | -13   | Pass      |
| 5.64      | -61.16      | 15.30             | -45.86         | -13   | Pass      |
| 7.52      | -62.27      | 17.84             | -44.43         | -13   | Pass      |
| 9.40      | -64.32      | 21.64             | -42.68         | -13   | Pass      |

**30M – 20GHz Open Field Radiated Emissions (Vertical ) Channel 600**

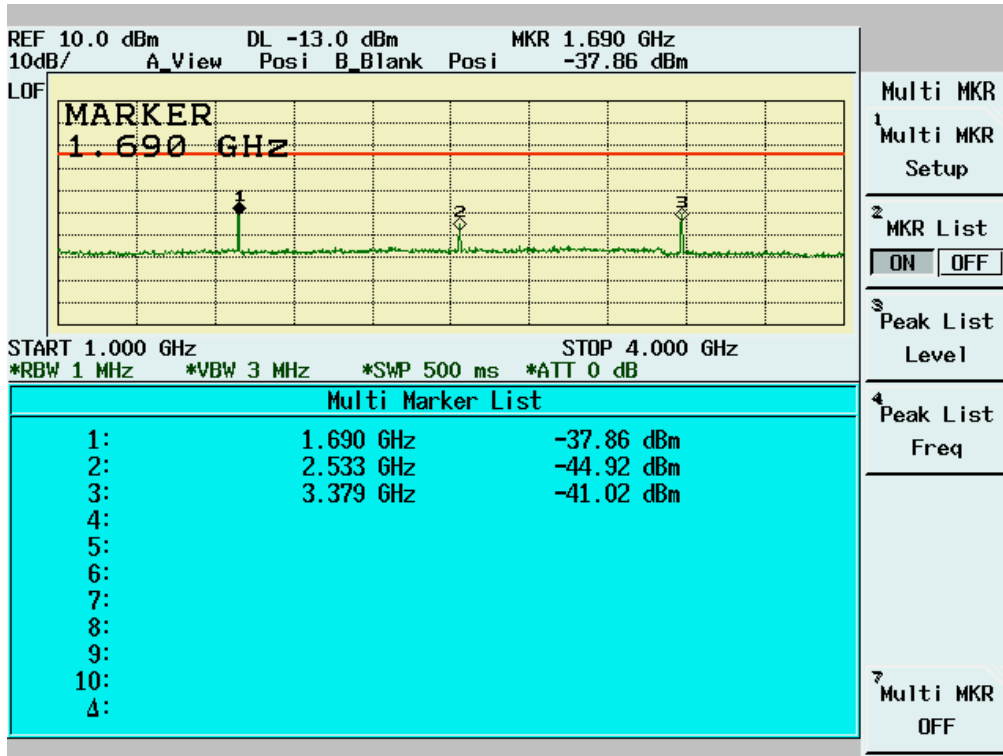
CDMA 1900

| Frequency | Raw Results | Correction factor | Results (EIRP) | Limit | Pass/Fail |
|-----------|-------------|-------------------|----------------|-------|-----------|
| (MHz)     | (dBm)       | (dB)              | (dBm)          | (dBm) |           |
| 3.76      | -52.39      | 11.04             | -41.35         | -13   | Pass      |
| 5.64      | -56.60      | 15.30             | -41.30         | -13   | Pass      |
| 7.52      | -61.19      | 17.84             | -43.32         | -13   | Pass      |
| 9.40      | -64.53      | 21.64             | -42.89         | -13   | Pass      |

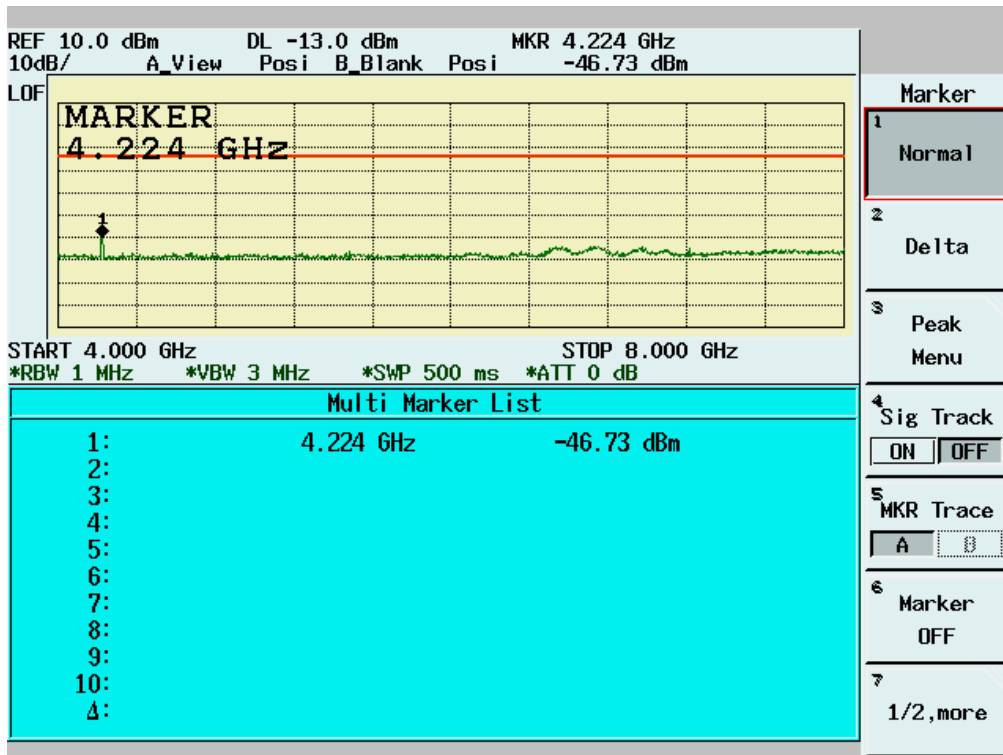
Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz。
2. Correction factor = Substitution SG Level + Antenna Gain - Cable Loss – Rx. level。
3. ERP/EIRP Value = Raw Results + Correction factor。

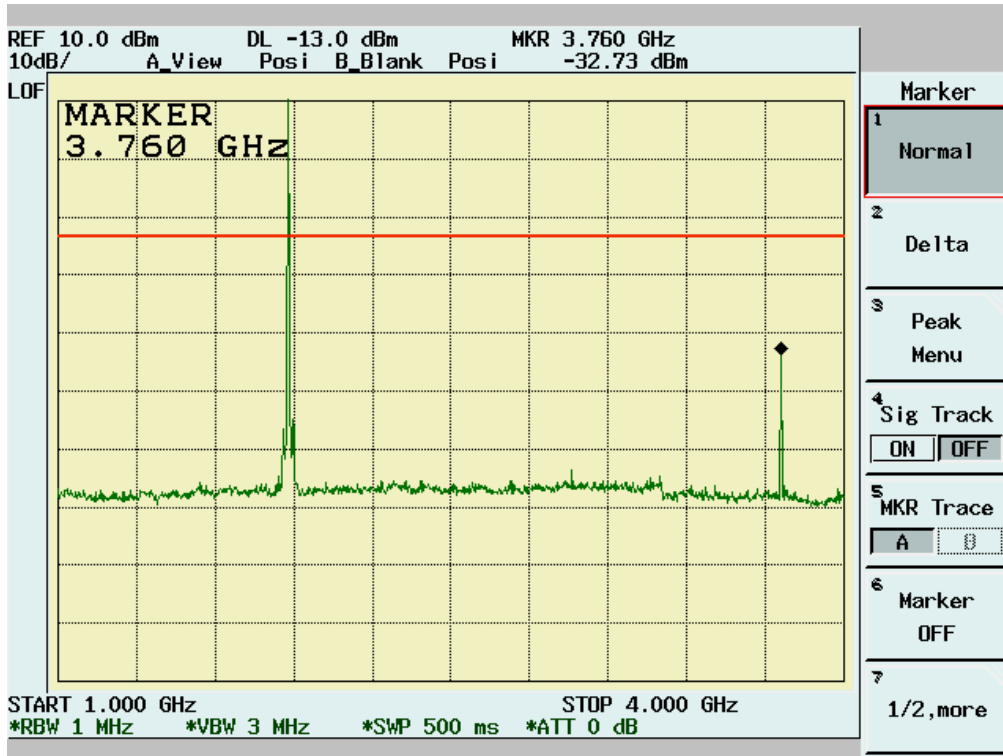
CDMA 800 CH380



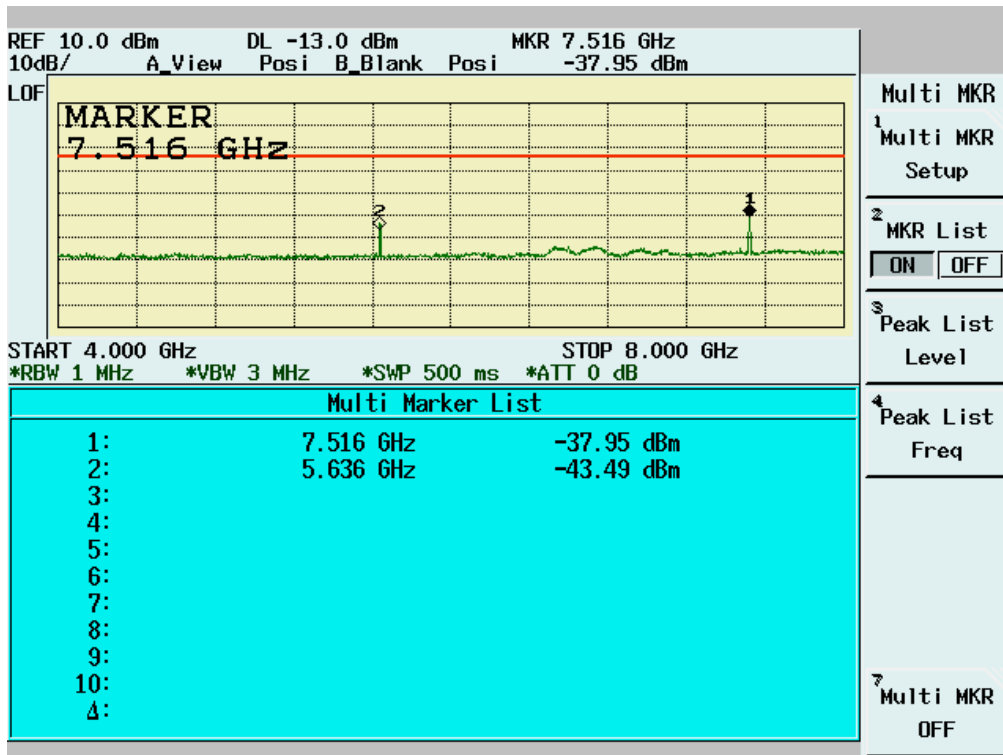
CDMA 800 CH380



CDMA 1900 CH600

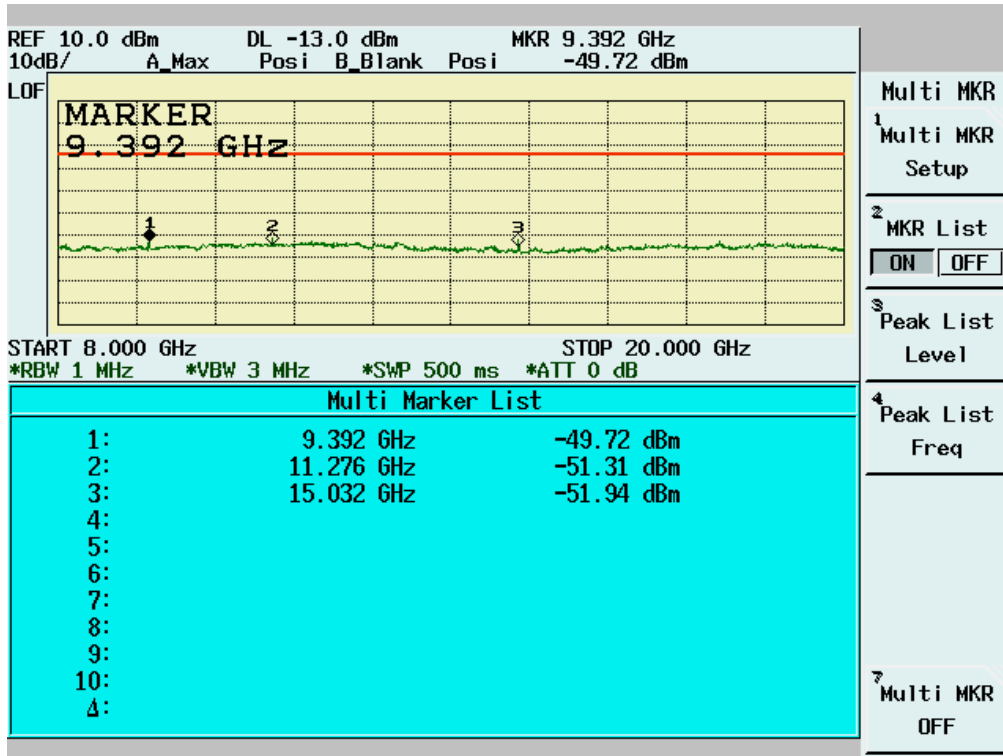


CDMA 1900 CH600





CDMA 1900 CH600



#### 4.5 Frequency Stability Under Temperature Variations & Voltage Variations

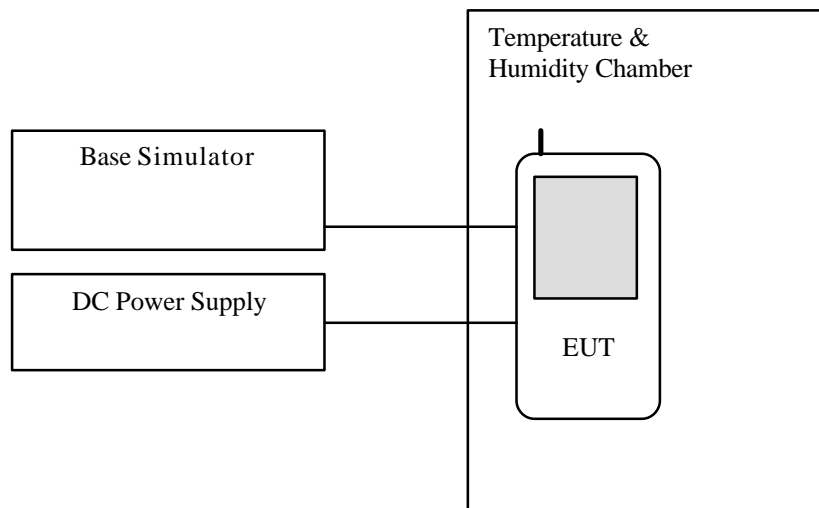
[Section 2.1055, 22.355, 24.235]

##### 4.5.1 Test Procedure

1. The Temperature/Humidity Chamber was set to the specified temperature and humidity and allow sufficient time, approximately 30 minutes, to be stabilized.
2. The EUT was placed in the Temperature/Humidity Chamber and powered by a Voltage/Frequency Power converter.
3. The Transmitter output of EUT was connected to the Base Simulator
4. EUT is turned on and the operating frequency was measured after 2, 5, 10 minutes with its normal supply voltage.
5. The Voltage/Frequency Power Converter was then set to 85% and 115% of supply voltage and operating frequency was measured after 2, 5, 10 minutes.
6. The above steps were repeated for temperature of 50, 0 and -30 degree C.
7. Base Simulator setting is listed below:.

|                    |  |
|--------------------|--|
| Channels Tested:   | CDMA 800<br>Ch 189 (836.4MHz)<br>CDMA 1900<br>Ch 661 (1880.0MHz) |
| Detector Function: | Frequency Error Mode   |

##### 4.5.2 Test Setup



### 4.5.3 Test Data:

‡ CDMA800 Temperature Variations

| Test conditions | CDMA CH380 (836.4MHz) |             |           |
|-----------------|-----------------------|-------------|-----------|
|                 | Deviation (Hz)        | limits (Hz) | Pass/fail |
| 50 °C           | 26                    | ±836        | Pass      |
| 40 °C           | 25                    |             |           |
| 30 °C           | -43                   |             |           |
| 20 °C           | -42                   |             |           |
| 10 °C           | 26                    |             |           |
| 0 °C            | -20                   |             |           |
| -10 °C          | 15                    |             |           |
| -20 °C          | -21                   |             |           |
| -30 °C          | -25                   |             |           |

‡ CDMA800 Voltage Variations

| Test conditions | CDMA CH380 (836.4MHz) |             |           |
|-----------------|-----------------------|-------------|-----------|
|                 | Deviation (Hz)        | limits (Hz) | Pass/fail |
| 21.85 V         | -21                   | ±836        | Pass      |
| 19 V            | -37                   |             |           |
| 16.15 V         | 31                    |             |           |

‡ CDMA1900 Temperature Variations

| Test conditions | CDMA CH600 (1880MHz) |                |           |
|-----------------|----------------------|----------------|-----------|
|                 | Deviation<br>(Hz)    | limits<br>(Hz) | Pass/fail |
| 50 °C           | -48                  | ±880           | Pass      |
| 40 °C           | 56                   |                |           |
| 30 °C           | -62                  |                |           |
| 20 °C           | -61                  |                |           |
| 10 °C           | 33                   |                |           |
| 0 °C            | -54                  |                |           |
| -10 °C          | -46                  |                |           |
| -20 °C          | -38                  |                |           |
| -30 °C          | -35                  |                |           |

‡ CDMA1900 Voltage Variations

| Test conditions | CDMA CH600 (1880MHz) |                |           |
|-----------------|----------------------|----------------|-----------|
|                 | Deviation<br>(Hz)    | limits<br>(Hz) | Pass/fail |
| 21.85 V         | -44                  | ±880           | Pass      |
| 19 V            | -52                  |                |           |
| 16.15 V         | -49                  |                |           |

## 5. Test Equipment

| Location   | Equipment Name                    | Brand               | Model                            | S/N         | Last Cal. Date | Next Cal. Date |
|------------|-----------------------------------|---------------------|----------------------------------|-------------|----------------|----------------|
| Radiation  | BILOG Antenna 08                  | Schaffner           | CBL6112B                         | 2756        | 06/07/2006     | 06/07/2007     |
| Radiation  | Coaxial Cable Chmb 02-10M         | Belden              | RG-8/U                           | Chmb 02-10M | 12/28/2005     | 12/28/2006     |
| Radiation  | Digital Hygro-Thermometer Chmb 02 | MicroLife           | HT-2126G                         | Chmb 02     | 11/30/2004     | 12/30/2006     |
| Radiation  | EMI Receiver 03                   | HP                  | 85460A                           | 3448A00209  | 04/01/2006     | 04/01/2007     |
| Radiation  | Spectrum Analyzer 13              | Advantest           | R3132                            | 121200411   | 02/17/2006     | 02/17/2007     |
| Radiation  | Horn Antenna 02                   | Com-Power           | AH-118                           | 10088       | 07/22/2006     | 07/22/2007     |
| Radiation  | Horn Antenna 04                   | Com-Power           | AH-826                           | 081-001     | 01/13/2006     | 01/13/2007     |
| Radiation  | Horn Antenna 05                   | Com-Power           | AH-640                           | 100A        | 09/30/2006     | 09/30/2007     |
| Radiation  | Microwave Cable RF SK-01          | HUBER+SUHNERAG.     | Sucoflex 102                     | 22139 /2    | 07/07/2006     | 07/07/2007     |
| Chamber 05 | Peak Power Analyzer               | HP                  | 8990A                            | 3621A01269  | 03/28/2006     | 03/28/2007     |
| Chamber 05 | Power Sensor Radar                | HP                  | 84815A                           | 3318A01828  | 03/28/2006     | 03/28/2007     |
| Radiation  | Preamplifier 02                   | MITEQ               | AFS44-00102<br>650-40-10P-4<br>4 | 728229      | 11/28/2005     | 11/28/2006     |
| Radiation  | Preamplifier 10                   | MITEQ               | JS-26004000-<br>27-5A            | 818471      | 11/22/2005     | 11/22/2006     |
| Radiation  | Band Reject Filter                | Wainwright          | WRCG 824/<br>849-60/10SS         | 003         | N/A            | N/A            |
| Radiation  | Band Reject Filter                | Wainwright          | WRCG 1850/<br>1910-60/10SS       | 007         | N/A            | N/A            |
| Radiation  | High Pass Filter 01               | HEWLETT-PA<br>CKARD | 84300-80038                      | 001         | N/A            | N/A            |
| Radiation  | High Pass Filter 02               | HEWLETT-PA<br>CKARD | 84300-80039                      | 005         | N/A            | N/A            |
| Radiation  | Spectrum Analyzer 14              | Advantest           | R3182                            | 140600028   | 11/22/2005     | 11/22/2006     |

Note: Calibration is traceable to NIST or national or international standards.

## 6. Appendix

### 6.1 Appendix A: Photographs of EUT Configuration Test Set Up

Please refer to the attached file.

### 6.2 Appendix B: Photographs of EUT

Please refer to the attached file.