



# FCC TEST REPORT

for

**47 CFR Part 22H, 24E, IC RSS-132 and IC RSS-133**

**Equipment** : PDA Phone  
**Trade Name** : palm  
**Model No.** : Treo 755p  
**FCC ID** : O8F-895  
**IC ID** : 3905A-895  
**Uplink Frequency Range** : CDMA2000 Cellular 850 : 824~849 MHz  
CDMA2000 PCS 1900 : 1850~1910 MHz  
**Downlink Frequency Range** : CDMA2000 Cellular 850 : 869~894 MHz  
CDMA2000 PCS 1900 : 1930~1990 MHz  
**Max. ERP/EIRP Power** : CDMA2000 Cellular 850 : 0.16 W  
CDMA2000 PCS 1900 : 0.12 W  
**Emission Designator** : 1M25F9W  
**Applicant** : **Palm, Inc.**  
950 W Maude Avenue MS 22L02 Sunnyvale, CA 94085-2801

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- The data shown in this test report were carried out on Jan. 13, 2007 at **Sporton International Inc. LAB.**
- Report No.: FG711111, Report Version: Rev. 01.

Roy Wu  
Deputy Manager

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***SPORTON International Inc.***

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Report Version: Rev. 01



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Appendix A - CDMA2000 1XEV-DO and 1XRTT Test Modes

Appendix B - Setup Photographs



### History of this test report

Report Issue Date: Jan. 16, 2007

| Report No. | Description |
|------------|-------------|
|            |             |
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## **1. General Information**

### **1.1. Applicant**

**Palm, Inc.**

950 W Maude Avenue MS 22L02 Sunnyvale, CA 94085-2801

### **1.2 Manufacturer**

**Palm, Inc.**

950 W Maude Avenue MS 22L02 Sunnyvale, CA 94085-2801

### **1.3 Basic Description of Equipment under Test**

|                   |                                         |
|-------------------|-----------------------------------------|
| Equipment         | : PDA Phone                             |
| Trade Name        | : palm                                  |
| Model No.         | : Treo 755p                             |
| FCC ID            | : O8F-895                               |
| IC ID             | : 3905A-895                             |
| Power Supply Type | : Switching                             |
| AC Power Cord     | : AC 120V, Wall-mount, 1.6 meter, 2 pin |
| Adapter 1         | : Netbit, DSC-51FL                      |
| Adapter 2         | : PIE, AD7112                           |
| Earphone          | : Merry                                 |
| Battery           | : Formosa                               |

**1.4 Feature of Equipment under Test**

|                                                                        |                                                                                                                                                                               |
|------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>DUT Type :</b>                                                      | PDA Phone                                                                                                                                                                     |
| <b>Trade Name :</b>                                                    | palm                                                                                                                                                                          |
| <b>Model Name :</b>                                                    | Treo 755p                                                                                                                                                                     |
| <b>FCC ID :</b>                                                        | O8F-895                                                                                                                                                                       |
| <b>Tx Frequency :</b>                                                  | CDMA2000 Cellular 850 : 824 ~ 849 MHz<br>CDMA2000 PCS 1900 : 1850 ~ 1910 MHz                                                                                                  |
| <b>Rx Frequency :</b>                                                  | CDMA2000 Cellular 850 : 869 ~ 894 MHz<br>CDMA2000 PCS1900 : 1930 ~ 1990 MHz                                                                                                   |
| <b>Maximum Output Power to Antenna :</b>                               | CDMA2000 Cellular 850 : 24.34 dBm for 1xRTT<br>24.04 dBm for 1xEV-DO<br>CDMA2000 PCS1900 : 23.5 dBm for 1xRTT<br>23.55 dBm for 1xEV-DO                                        |
| <b>Maximum ERP/EIRP :</b>                                              | CDMA2000 Cellular 850 : 0.15 W ( 21.73 dBm) for 1xRTT<br>0.16 W (22.04 dBm) for 1xEV-DO<br>CDMA2000 PCS1900 : 0.12 W ( 20.61 dBm) for 1xRTT<br>0.12 W (20.91 dBm) for 1xEV-DO |
| <b>Antenna Type :</b>                                                  | Fixed Internal                                                                                                                                                                |
| <b>Antenna Gain :</b>                                                  | Bluetooth : 1 dBi                                                                                                                                                             |
| <b>Power Rating (DC/AC, Voltage and Current of RF element or PA) :</b> | 3.4V/430mA                                                                                                                                                                    |
| <b>Digital Modulation Emission :</b>                                   | QPSK                                                                                                                                                                          |
| <b>Type of Emission :</b>                                              | 1M25F9W                                                                                                                                                                       |
| <b>Device Power Class :</b>                                            | CDMA2000 Cellular 850 : 3<br>CDMA2000 PCS1900 : 3                                                                                                                             |
| <b>DUT Stage :</b>                                                     | DVT                                                                                                                                                                           |

**1.5 Report Date**

EUT Received : Jan. 11, 2007

Report Date : Jan. 16, 2007

## 2 Test Configuration of Equipment under Test

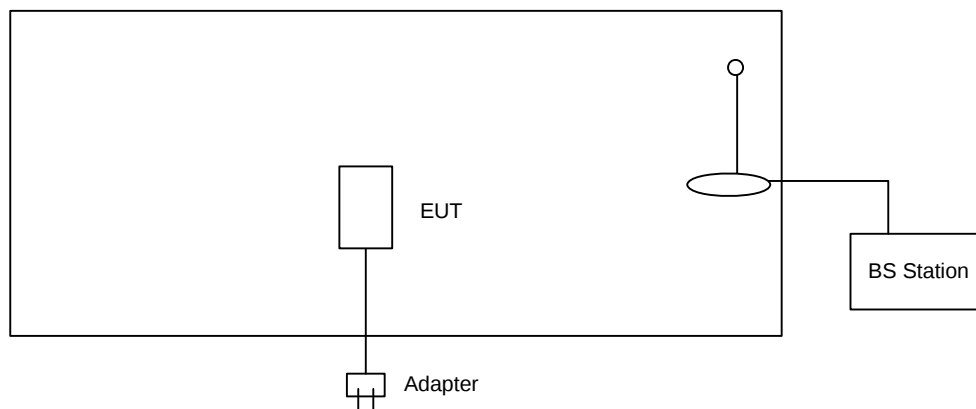
### 2.1 Test Manner

- The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range.
- During all testings, EUT is in link mode with base station emulator at maximum power level.
- Frequency range investigated: radiated emission 30 MHz to 9000 MHz for CDMA2000 Cellular 850; 30MHz to 19000 MHz for CDMA2000 PCS 1900.

### 2.2 Test Mode

| Application           | CDMA2000 Cellular 850                                                   | CDMA2000 PCS 1900                                                     |
|-----------------------|-------------------------------------------------------------------------|-----------------------------------------------------------------------|
| Radiated Emission     | <input checked="" type="checkbox"/> Mode 1: 1xRTT Link Mode             | <input checked="" type="checkbox"/> Mode 3: 1xRTT Link Mode           |
|                       | <input checked="" type="checkbox"/> Mode 2: 1xEV-DO Link Mode           | <input checked="" type="checkbox"/> Mode 4: 1xEV-DO Link Mode         |
|                       | <input checked="" type="checkbox"/> Mode 5: 1xEV-DO Link Mode + BT Link | <input checked="" type="checkbox"/> Mode 6: 1xRTT Link Mode + BT Link |
| Conducted Measurement | <input checked="" type="checkbox"/> Mode 1: 1xRTT Link Mode             | <input checked="" type="checkbox"/> Mode 3: 1xRTT Link Mode           |
|                       | <input checked="" type="checkbox"/> Mode 2: 1xEV-DO Link Mode           | <input checked="" type="checkbox"/> Mode 4: 1xEV-DO Link Mode         |

### 2.3 Connection Diagram of Test System



### 2.4 Ancillary Equipment List

| Item | Equipment                       | Model No. | Serial No. |
|------|---------------------------------|-----------|------------|
| 1.   | Base Station(R&S)               | CMU200    | 106656     |
| 2.   | Bluetooth Earphone (Free Style) | JD-100    | N/A        |

**SPORTON International Inc.**

TEL : 886-2-2696-2468

FAX : 886-2-2696-2255

FCC ID : O8F-895

IC ID : 3905A-895

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Report Issued Date : Jan. 16, 2007

Report Version : Rev. 01



### 3. General Information of Test Site

Test Site Location : No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park,  
Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.  
TEL : 886-3-327-3456  
FAX : 886-3-318-0055

Test Site No : 03CH06-HY

The chamber meets the characteristics of ANSI C63.4-2003. This site is on file with the FCC. The Industry Canada file number for this site is IC 4088.

#### 3.1 Test Voltage

120V/ 60Hz

#### 3.2 Test in Compliance with

47 CFR Part 22H, 24E, Part 2, IC RSS-132 Issued 2 and IC RSS-133 Issued 3

#### 3.3 Frequency Range Investigated

- a. Radiation: from 30MHz to 9000MHz for CDMA2000 Cellular 850.
- b. Radiation: from 30 MHz to 19000 MHz for CDMA2000 PCS 1900.

#### 3.4 Test Distance

The test distance of radiated emission from antenna to EUT is 3 m.



## 4. Test Data and Test Result

### 4.1 List of Measurements and Examinations

| FCC Rule                             | IC Rule                      | DESCRIPTION OF TEST                           | Result | Section |
|--------------------------------------|------------------------------|-----------------------------------------------|--------|---------|
| §2.1046                              | RSS-132 §4.4<br>RSS-133 §6.4 | RF Output Power                               | Passed | 4.2     |
| § 22.913<br>§24.232                  | RSS-132 §4.4<br>RSS-133 §6.4 | ERP / EIRP                                    | Passed | 4.3     |
| §2.1049,<br>§ 22.917,<br>§ 24.238(b) | RSS-132 §4.5<br>RSS-133 §6.5 | Occupied Bandwidth & Band Edge<br>Measurement | Passed | 4.4     |
| §2.1051                              | RSS-132 §4.5<br>RSS-133 §6.5 | Conducted Emission                            | Passed | 4.5     |
| §2.1053                              | RSS-132 §4.5<br>RSS-133 §6.5 | Field Strength of Spurious Radiation          | Passed | 4.6     |
| §2.1055,<br>§ 22.355,<br>§24.235     | RSS-132 §4.3<br>RSS-133 §6.3 | Frequency Stability vs. Temperature           | Passed | 4.7     |
| §2.1055,<br>§22.355,<br>§24.235      | RSS-132 §4.3<br>RSS-133 §6.3 | Frequency Stability vs. Voltage               | Passed | 4.8     |

## 4.2 RF Output Power

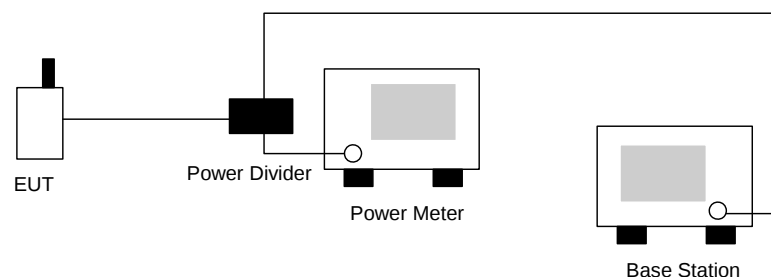
### 4.2.1 Measurement Instruments :

As described in chapter 5 of this test report.

### 4.2.2 Test Procedure :

1. The transmitter output was connected to power meter and base station through power divider.
2. Set EUT maximum power through base station.
3. Select lowest, middle, and highest channels for each band.

### 4.2.3 Test Setup Layout :





## 4.2.4 Test Result :

| Bands                    | Test Mode       | Test Status        | Channel | Frequency (MHz) | Conducted Power (dBm) | Conducted Power (Watts) |
|--------------------------|-----------------|--------------------|---------|-----------------|-----------------------|-------------------------|
| CDMA2000<br>Cellular 850 | CDMA<br>1xRTT   | FCH_RC1            | 1013    | 824.70 (Low)    | 23.96                 | 0.25                    |
|                          |                 |                    | 384     | 836.52 (Mid)    | 24.34                 | 0.27                    |
|                          |                 |                    | 777     | 848.31 (High)   | 23.91                 | 0.25                    |
|                          |                 | FCH_RC3            | 1013    | 824.70 (Low)    | 23.97                 | 0.25                    |
|                          |                 |                    | 384     | 836.52 (Mid)    | 24.33                 | 0.27                    |
|                          |                 |                    | 777     | 848.31 (High)   | 23.91                 | 0.25                    |
|                          |                 | FCH+SCH_RC3        | 1013    | 824.70 (Low)    | 24.02                 | 0.25                    |
|                          |                 |                    | 384     | 836.52 (Mid)    | 24.27                 | 0.27                    |
|                          |                 |                    | 777     | 848.31 (High)   | 23.66                 | 0.23                    |
|                          | CDMA<br>1xEV-DO | EVDO-UL: 9.6Kbps   | 1013    | 824.70 (Low)    | 23.52                 | 0.23                    |
|                          |                 |                    | 384     | 836.52 (Mid)    | 23.95                 | 0.25                    |
|                          |                 |                    | 777     | 848.31 (High)   | 23.44                 | 0.22                    |
|                          |                 | EVDO-UL: 38.4Kbps  | 1013    | 824.70 (Low)    | 24.04                 | 0.25                    |
|                          |                 |                    | 384     | 836.52 (Mid)    | 23.96                 | 0.25                    |
|                          |                 |                    | 777     | 848.31 (High)   | 23.97                 | 0.25                    |
|                          |                 | EVDO-UL: 153.6Kbps | 1013    | 824.70 (Low)    | 23.55                 | 0.23                    |
|                          |                 |                    | 384     | 836.52 (Mid)    | 23.96                 | 0.25                    |
|                          |                 |                    | 777     | 848.31 (High)   | 23.54                 | 0.23                    |
| CDMA2000<br>PCS 1900     | CDMA<br>1xRTT   | FCH_RC1            | 25      | 1851.25 (Low)   | 23.38                 | 0.22                    |
|                          |                 |                    | 600     | 1880.00 (Mid)   | 23.38                 | 0.22                    |
|                          |                 |                    | 1177    | 1908.75 (High)  | 23.38                 | 0.22                    |
|                          |                 | FCH_RC3            | 25      | 1851.25 (Low)   | 23.39                 | 0.22                    |
|                          |                 |                    | 600     | 1880.00 (Mid)   | 23.50                 | 0.22                    |
|                          |                 |                    | 1177    | 1908.75 (High)  | 23.35                 | 0.22                    |
|                          |                 | FCH+SCH_RC1        | 25      | 1851.25 (Low)   | 23.40                 | 0.22                    |
|                          |                 |                    | 600     | 1880.00 (Mid)   | 23.49                 | 0.22                    |
|                          |                 |                    | 1177    | 1908.75 (High)  | 23.37                 | 0.22                    |
|                          | CDMA<br>1xEV-DO | EVDO-UL: 9.6Kbps   | 25      | 1851.25 (Low)   | 23.02                 | 0.20                    |
|                          |                 |                    | 600     | 1880.00 (Mid)   | 23.15                 | 0.21                    |
|                          |                 |                    | 1177    | 1908.75 (High)  | 22.93                 | 0.20                    |
|                          |                 | EVDO-UL: 38.4Kbps  | 25      | 1851.25 (Low)   | 23.47                 | 0.22                    |
|                          |                 |                    | 600     | 1880.00 (Mid)   | 23.55                 | 0.23                    |
|                          |                 |                    | 1177    | 1908.75 (High)  | 23.45                 | 0.22                    |
|                          |                 | EVDO-UL: 153.6Kbps | 25      | 1851.25 (Low)   | 23.04                 | 0.20                    |
|                          |                 |                    | 600     | 1880.00 (Mid)   | 23.17                 | 0.21                    |
|                          |                 |                    | 1177    | 1908.75 (High)  | 22.91                 | 0.20                    |



### 4.3 ERP / EIRP Measurement

Equivalent isotropic radiated power measurements by substitution method according to ANSI/TIA/EIA-603-C.

#### 4.3.1 Measurement Instruments

As described in chapter 5 of this test report.

#### 4.3.2 Test Procedure

1. The EUT was placed on a rotatable table with 1.0 meter height in an fully anechoic chamber.
2. The EUT was set 1.2 meters from the receiving antenna which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiated power.
4. The height of the receiving antenna is also kept at 1.0M height.
5. Taking the record of maximum ERP/EIRP.
6. A dipole antenna was substituted in place of the EUT and was driven by a signal generator.
7. The conducted power at the terminal of the dipole antenna is measured.
8. Repeat step 3 to step 5 to get the maximum ERP/EIRP of the substitution antenna.
9.  $ERP/EIRP = P_s + E_t - E_s + G_s = P_s + R_t - R_s + G_s$

$P_s$  (dBm) : Input power to substitution antenna.

$G_s$  (dBi or dBd) : Substitution antenna Gain.

$E_t = R_t + AF$

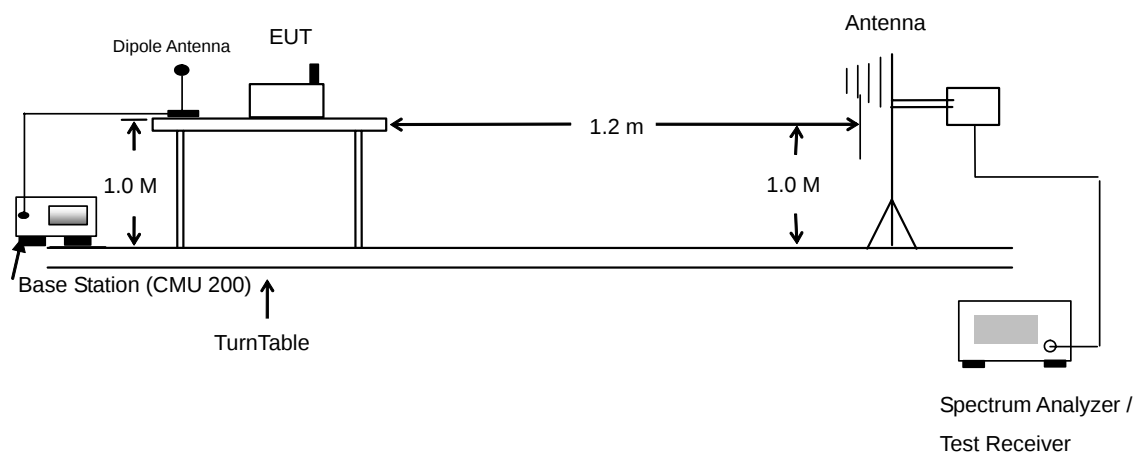
$E_s = R_s + AF$

$AF$  (dB/m) : Receive antenna factor

$R_t$  : The highest received signal in Spectrum Analyzer for EUT.

$R_s$  : The highest received signal in spectrum analyzer for substitution antenna.

### 4.3.3 Test Setup Layout of ERP/EIRP





## 4.3.4 Test Result

| CDMA2000 Cellular 850 1xRTT FCH_RC1 Radiated Power ERP |               |               |             |              |              |             |
|--------------------------------------------------------|---------------|---------------|-------------|--------------|--------------|-------------|
| Horizontal Polarization                                |               |               |             |              |              |             |
| Frequency<br>(MHz)                                     | Rt<br>(dBm)   | Rs<br>(dBm)   | Ps<br>(dBm) | Gs<br>(dBd)  | ERP<br>(dBm) | ERP<br>(W)  |
| 824.70                                                 | -36.40        | -48.12        | 0.00        | -1.08        | 10.64        | 0.01        |
| 836.52                                                 | -34.66        | -48.28        | 0.00        | -0.93        | 12.69        | 0.02        |
| 848.31                                                 | -35.94        | -48.35        | 0.00        | -0.76        | 11.65        | 0.01        |
| Vertical Polarization                                  |               |               |             |              |              |             |
| Frequency<br>(MHz)                                     | Rt<br>(dBm)   | Rs<br>(dBm)   | Ps<br>(dBm) | Gs<br>(dBd)  | ERP<br>(dBm) | ERP<br>(W)  |
| 824.70                                                 | -27.26        | -47.97        | 0.00        | -1.08        | 19.63        | 0.09        |
| <b>836.52</b>                                          | <b>-25.35</b> | <b>-48.01</b> | <b>0.00</b> | <b>-0.93</b> | <b>21.73</b> | <b>0.15</b> |
| 848.31                                                 | -26.86        | -48.05        | 0.00        | -0.76        | 20.43        | 0.11        |

| CDMA2000 Cellular 850 1xEV-DO 38.4Kbps Radiated Power ERP |               |               |             |              |              |             |
|-----------------------------------------------------------|---------------|---------------|-------------|--------------|--------------|-------------|
| Horizontal Polarization                                   |               |               |             |              |              |             |
| Frequency<br>(MHz)                                        | Rt<br>(dBm)   | Rs<br>(dBm)   | Ps<br>(dBm) | Gs<br>(dBd)  | ERP<br>(dBm) | ERP<br>(W)  |
| 824.70                                                    | -40.87        | -48.12        | 0.00        | -1.08        | 6.17         | 0.00        |
| 836.52                                                    | -39.12        | -48.28        | 0.00        | -0.93        | 8.23         | 0.01        |
| 848.31                                                    | -40.37        | -48.35        | 0.00        | -0.76        | 7.22         | 0.01        |
| Vertical Polarization                                     |               |               |             |              |              |             |
| Frequency<br>(MHz)                                        | Rt<br>(dBm)   | Rs<br>(dBm)   | Ps<br>(dBm) | Gs<br>(dBd)  | ERP<br>(dBm) | ERP<br>(W)  |
| 824.70                                                    | -26.77        | -47.97        | 0.00        | -1.08        | 20.12        | 0.10        |
| <b>836.52</b>                                             | <b>-25.04</b> | <b>-48.01</b> | <b>0.00</b> | <b>-0.93</b> | <b>22.04</b> | <b>0.16</b> |
| 848.31                                                    | -26.27        | -48.05        | 0.00        | -0.76        | 21.02        | 0.13        |

**CDMA2000 PCS1900 1xRTT FCH\_RC3 Radiated Power EIRP**

## Horizontal Polarization

| Frequency<br>(MHz) | Rt<br>(dBm) | Rs<br>(dBm) | Ps<br>(dBm) | Gs<br>(dBi) | EIRP<br>(dBm) | EIRP<br>(W) |
|--------------------|-------------|-------------|-------------|-------------|---------------|-------------|
| 1851.25            | -35.21      | -51.88      | 0.00        | 1.96        | 18.63         | 0.07        |
| 1880.00            | -36.62      | -52.99      | 0.00        | 2.00        | 18.37         | 0.07        |
| 1908.75            | -38.99      | -54.28      | 0.00        | 1.98        | 17.27         | 0.05        |

## Vertical Polarization

| Frequency<br>(MHz) | Rt<br>(dBm)   | Rs<br>(dBm)   | Ps<br>(dBm) | Gs<br>(dBi) | EIRP<br>(dBm) | EIRP<br>(W) |
|--------------------|---------------|---------------|-------------|-------------|---------------|-------------|
| <b>1851.25</b>     | <b>-33.48</b> | <b>-52.13</b> | <b>0.00</b> | <b>1.96</b> | <b>20.61</b>  | <b>0.12</b> |
| 1880.00            | -35.11        | -53.17        | 0.00        | 2.00        | 20.06         | 0.10        |
| 1908.75            | -37.92        | -54.13        | 0.00        | 1.98        | 18.19         | 0.07        |

**CDMA2000 PCS1900 1xEV-DO 38.4Kbps Radiated Power EIRP**

## Horizontal Polarization

| Frequency<br>(MHz) | Rt<br>(dBm) | Rs<br>(dBm) | Ps<br>(dBm) | Gs<br>(dBi) | EIRP<br>(dBm) | EIRP<br>(W) |
|--------------------|-------------|-------------|-------------|-------------|---------------|-------------|
| 1851.25            | -35.19      | -51.88      | 0.00        | 1.96        | 18.65         | 0.07        |
| 1880.00            | -36.56      | -52.99      | 0.00        | 2.00        | 18.43         | 0.07        |
| 1908.75            | -39.19      | -54.28      | 0.00        | 1.98        | 17.07         | 0.05        |

## Vertical Polarization

| Frequency<br>(MHz) | Rt<br>(dBm)   | Rs<br>(dBm)   | Ps<br>(dBm) | Gs<br>(dBi) | EIRP<br>(dBm) | EIRP<br>(W) |
|--------------------|---------------|---------------|-------------|-------------|---------------|-------------|
| <b>1851.25</b>     | <b>-33.18</b> | <b>-52.13</b> | <b>0.00</b> | <b>1.96</b> | <b>20.91</b>  | <b>0.12</b> |
| 1880.00            | -35.02        | -53.17        | 0.00        | 2.00        | 20.15         | 0.10        |
| 1908.75            | -37.48        | -54.13        | 0.00        | 1.98        | 18.63         | 0.07        |

## 4.4 Occupied Bandwidth and Band Edge Measurement

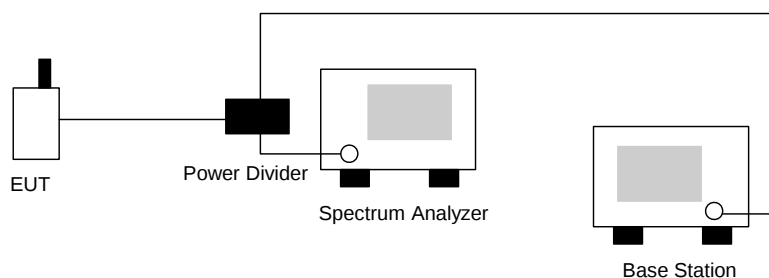
### 4.4.1 Measurement Instruments

As described in chapter 5 of this test report.

### 4.4.2 Test Procedure

1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
2. The 99% occupied bandwidth of middle channel for the highest and lowest RF powers were measured.
3. The bandedge of low and high channels for the highest RF powers within the transmitting frequency band were measured. Setting RBW as roughly BW/100.

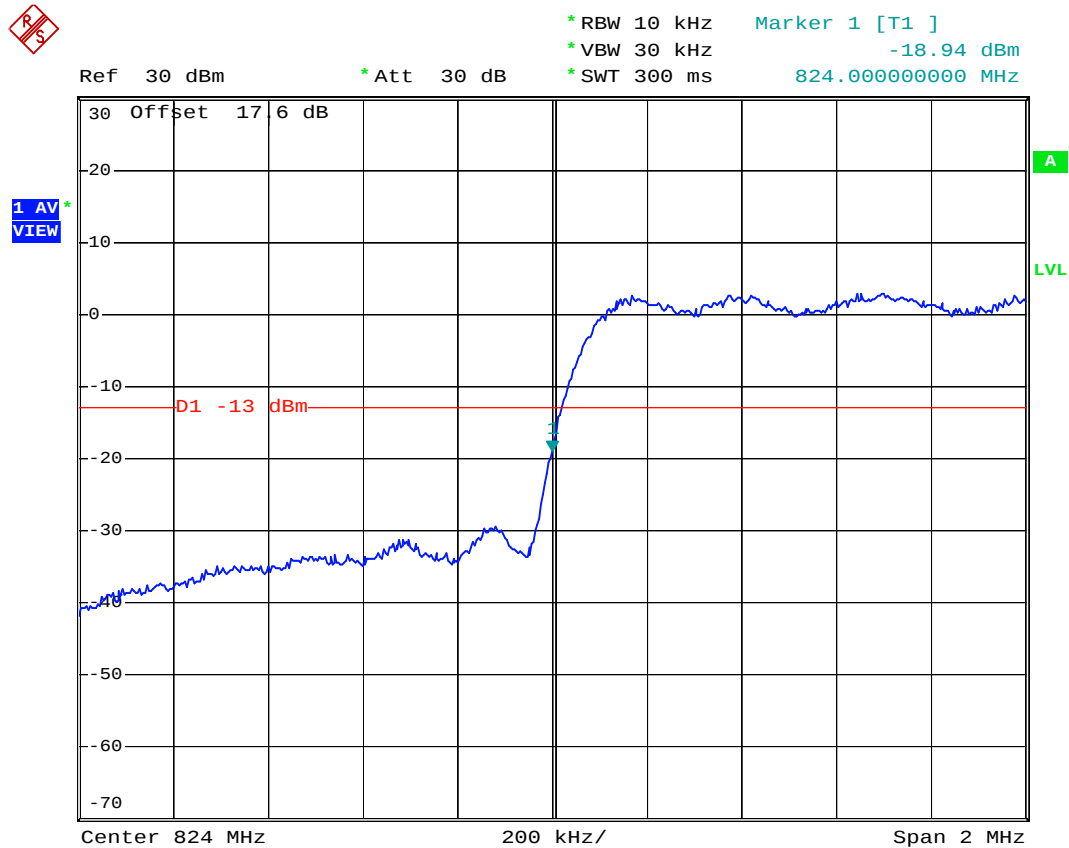
### 4.4.3 Test Setup Layout





4.4.4 Test Result

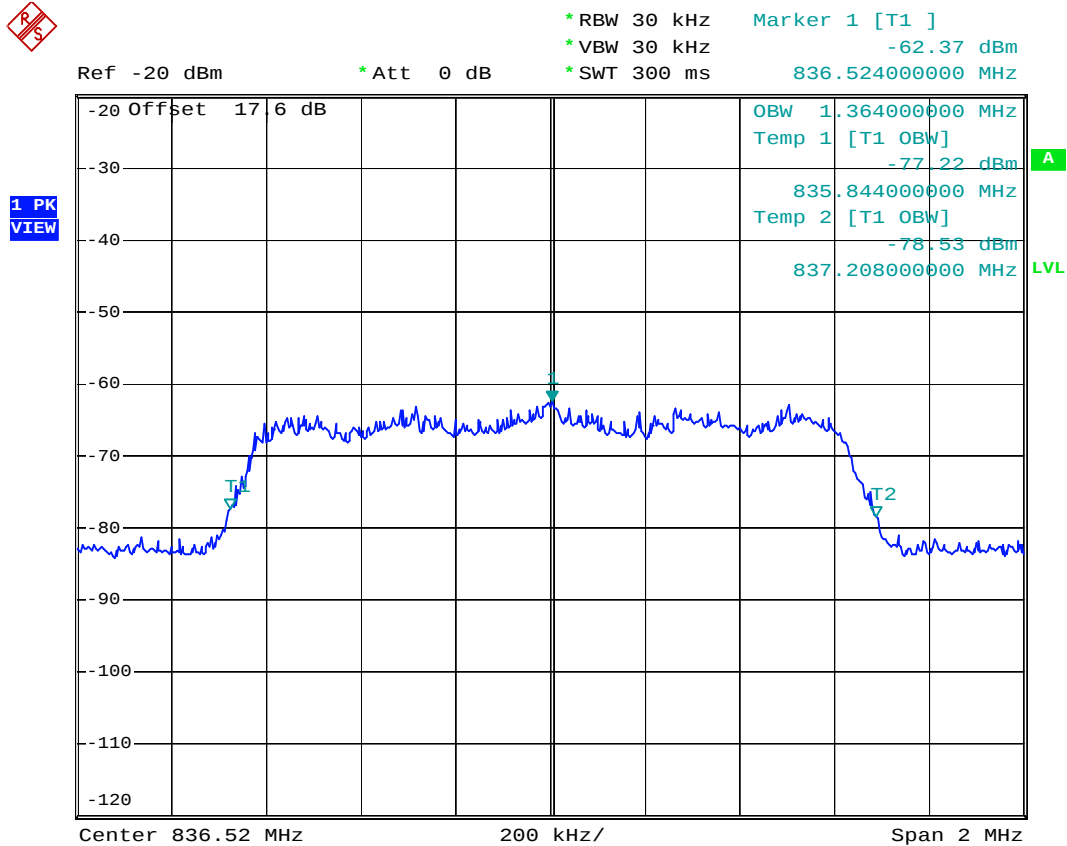
- Mode 1
- Test Mode : CDMA2000 Cellular 850 Band CH1013\_FCH\_RC1 Lower Band Edge for 1xRTT
- Power State : High



Date: 9.JAN.2007 20:15:04

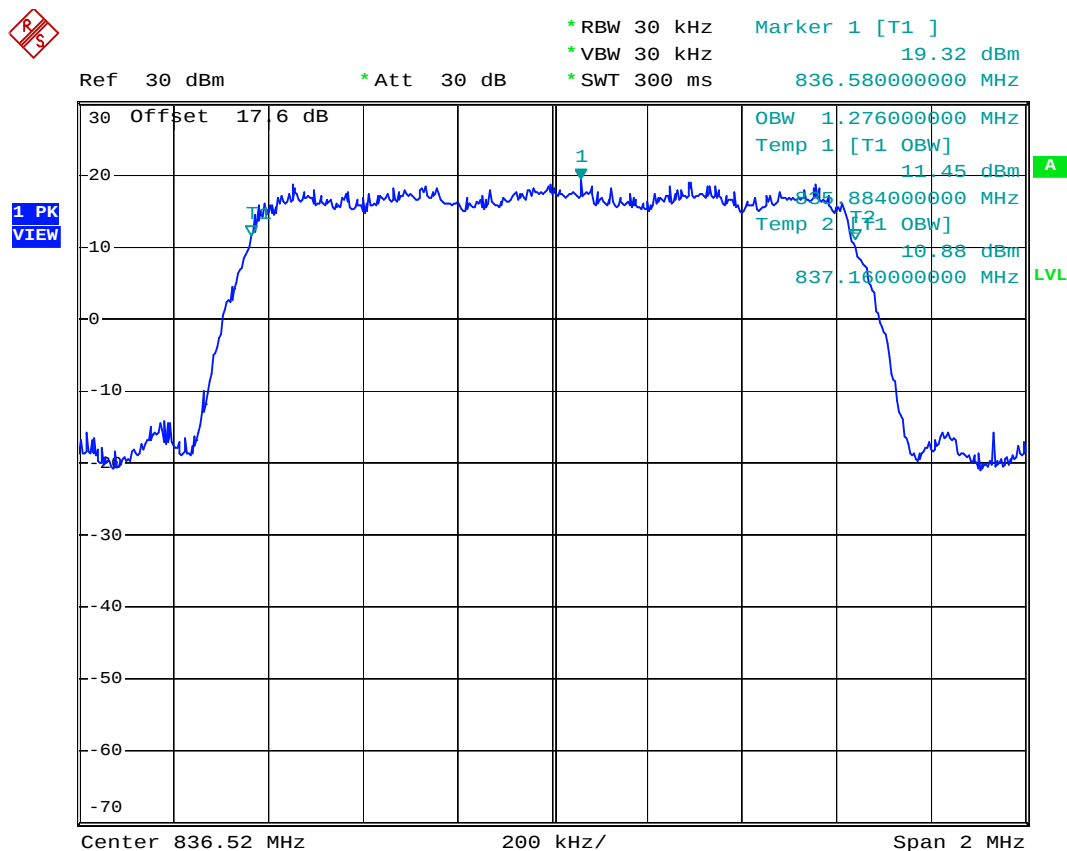


- Test Mode : CDMA2000 Cellular 850 CH384 99% Occupied Bandwidth for 1xRTT
- Power State : Low



Date: 9.JAN.2007 20:04:32

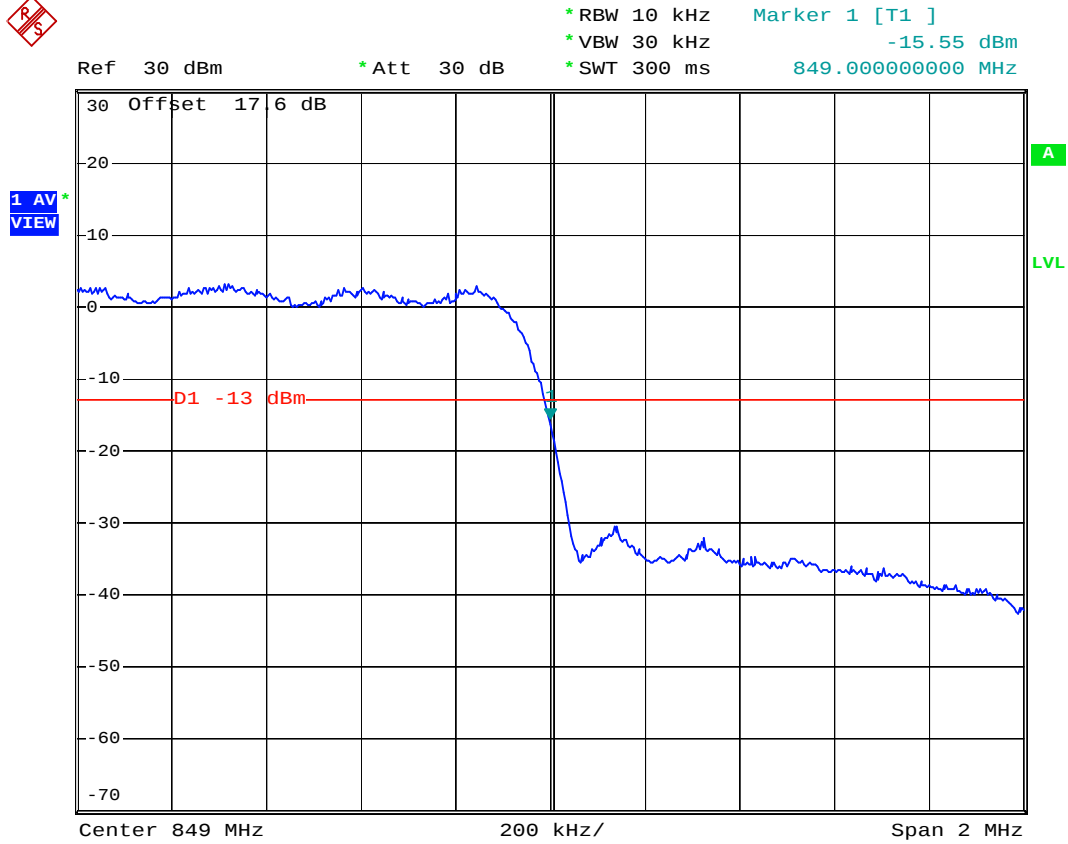
- Test Mode : CDMA2000 Cellular 850 CH384 99% Occupied Bandwidth for 1xRTT
- Power State : High



Date: 9.JAN.2007 20:03:01



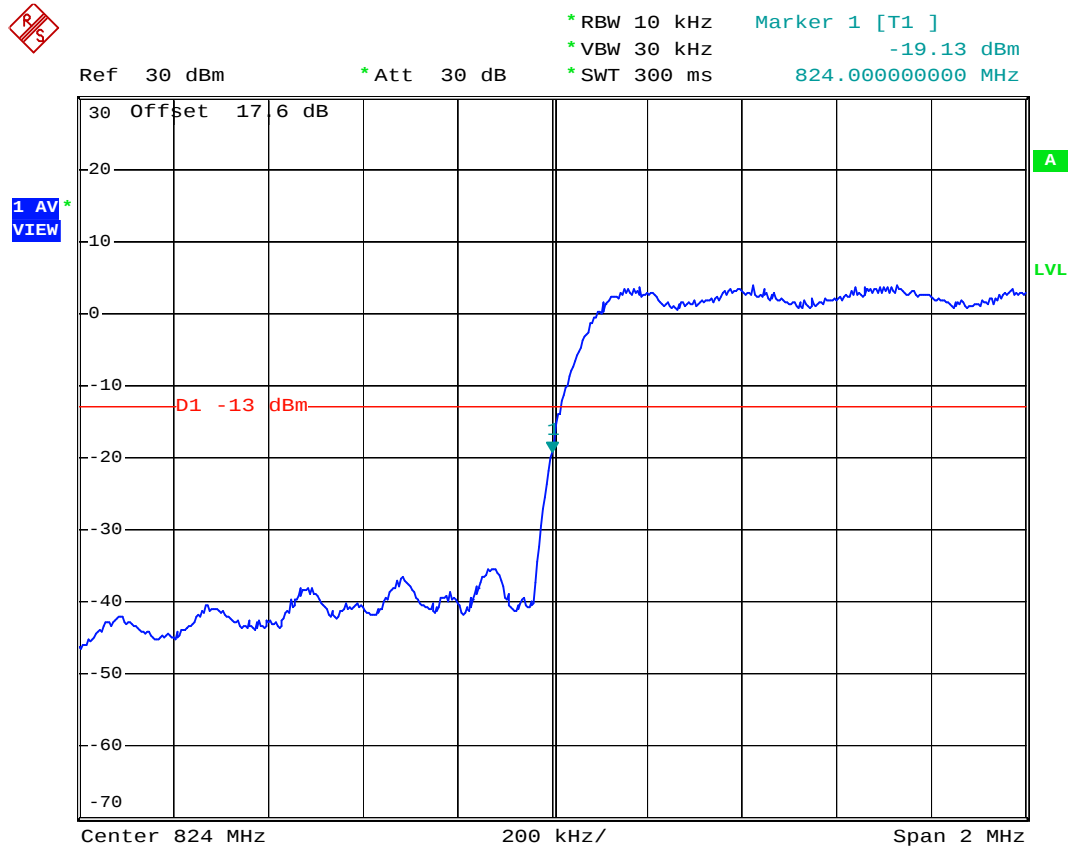
- Test Mode : CDMA2000 Cellular 850 CH777\_FCH\_RC1 Higher Band Edge for 1xRTT
- Power State : High



Date: 9.JAN.2007 20:14:07



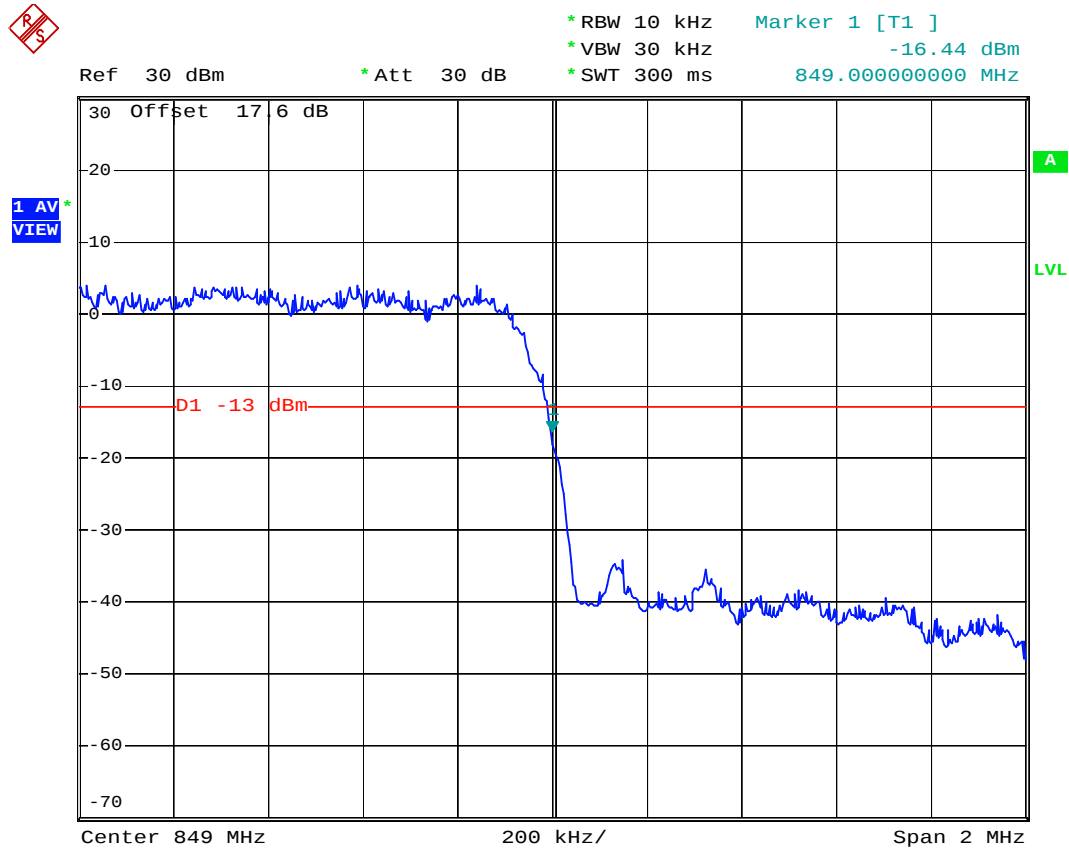
- Test Mode : CDMA2000 Cellular 850 Band CH1013\_FCH\_RC3 Lower Band Edge for 1xRTT
- Power State : High



Date: 11.JAN.2007 17:03:36



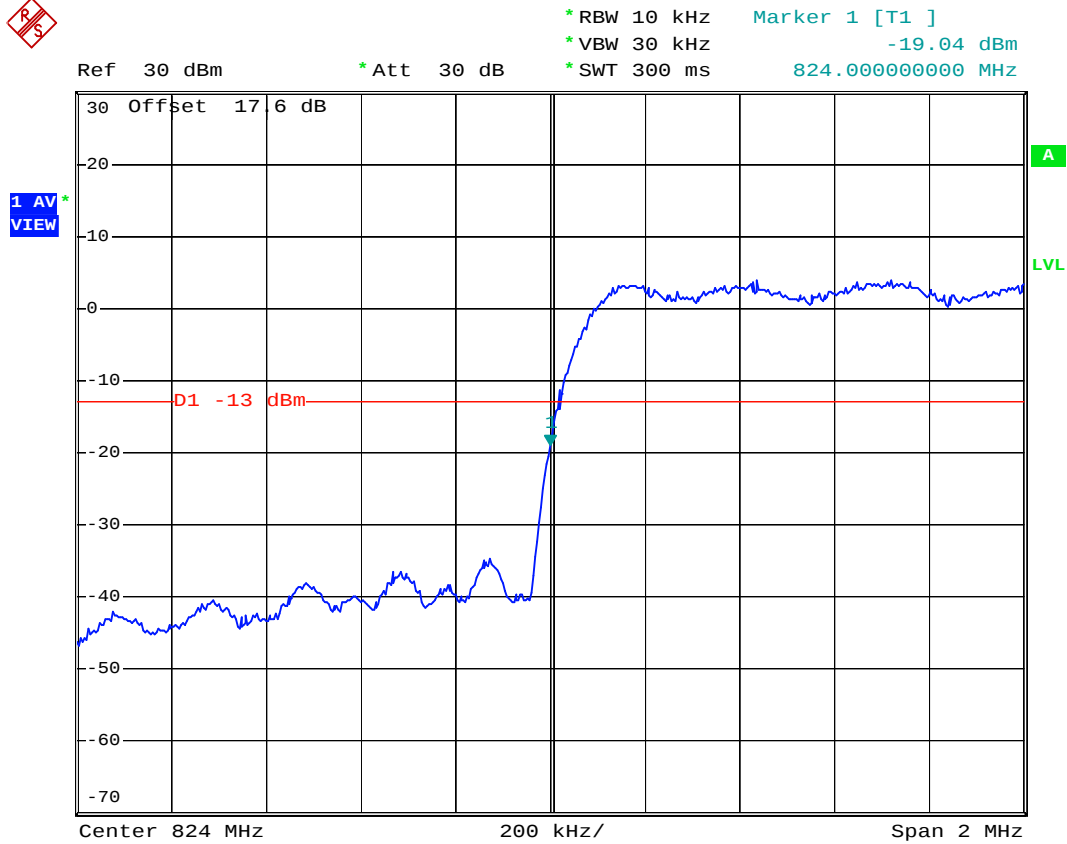
- Test Mode : CDMA2000 Cellular 850 CH777\_FCH\_RC3 Higher Band Edge for 1xRTT
- Power State : High



Date: 11.JAN.2007 17:06:51



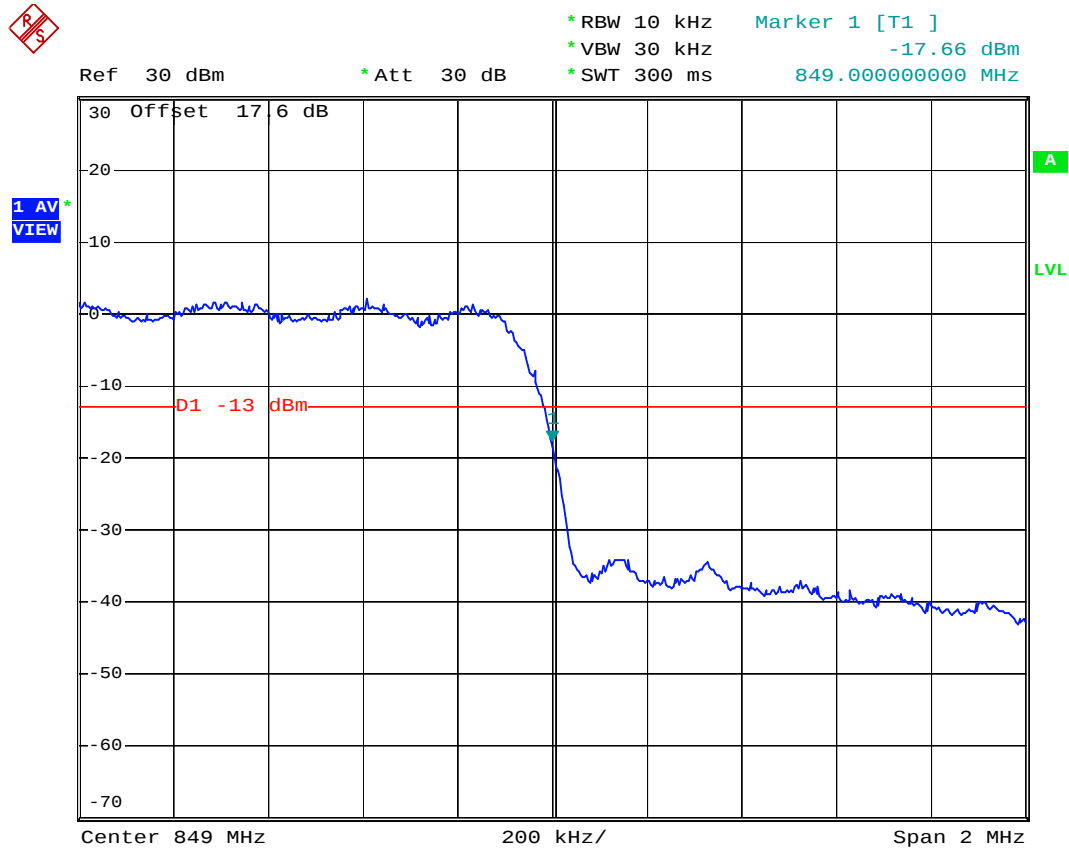
- Test Mode : CDMA2000 Cellular 850 Band CH1013\_FCH+SCH\_RC3 Lower Band Edge for 1xRTT
- Power State : High



Date: 11.JAN.2007 17:04:57



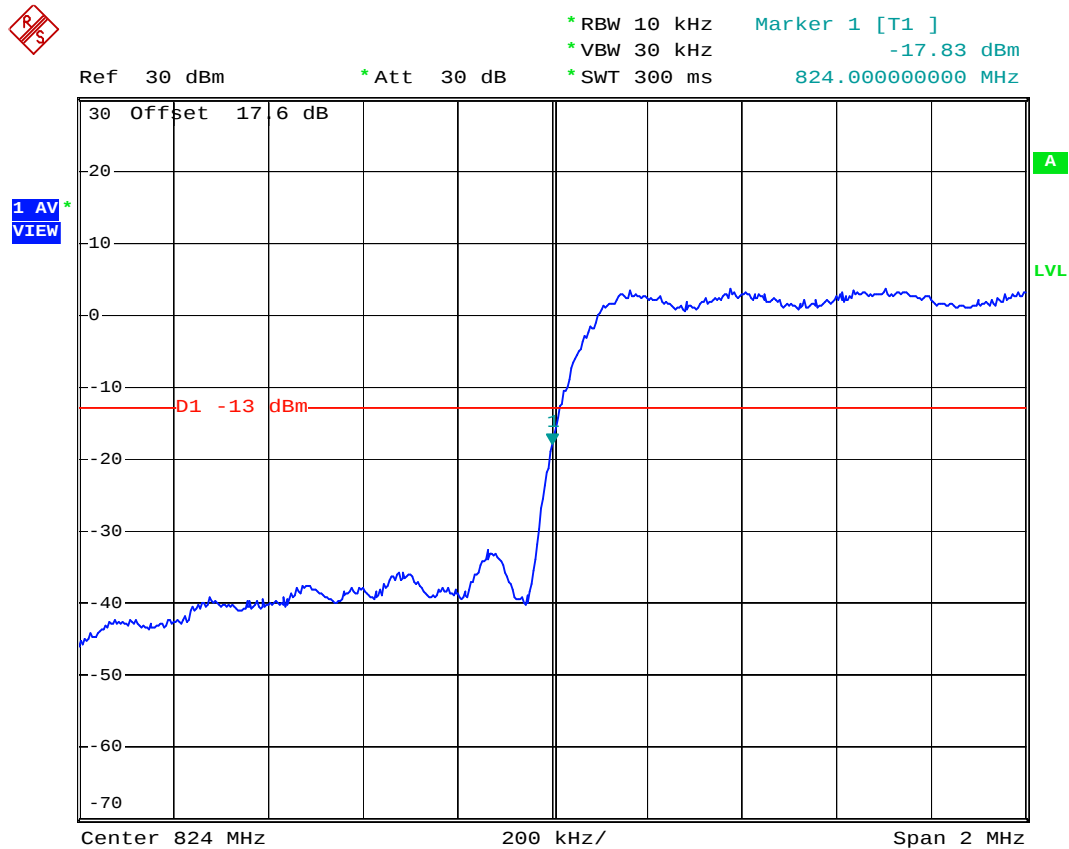
- Test Mode : CDMA2000 Cellular 850 CH777\_FCH+SCH\_RC3 Higher Band Edge for 1xRTT
- Power State : High



Date: 11.JAN.2007 17:05:30



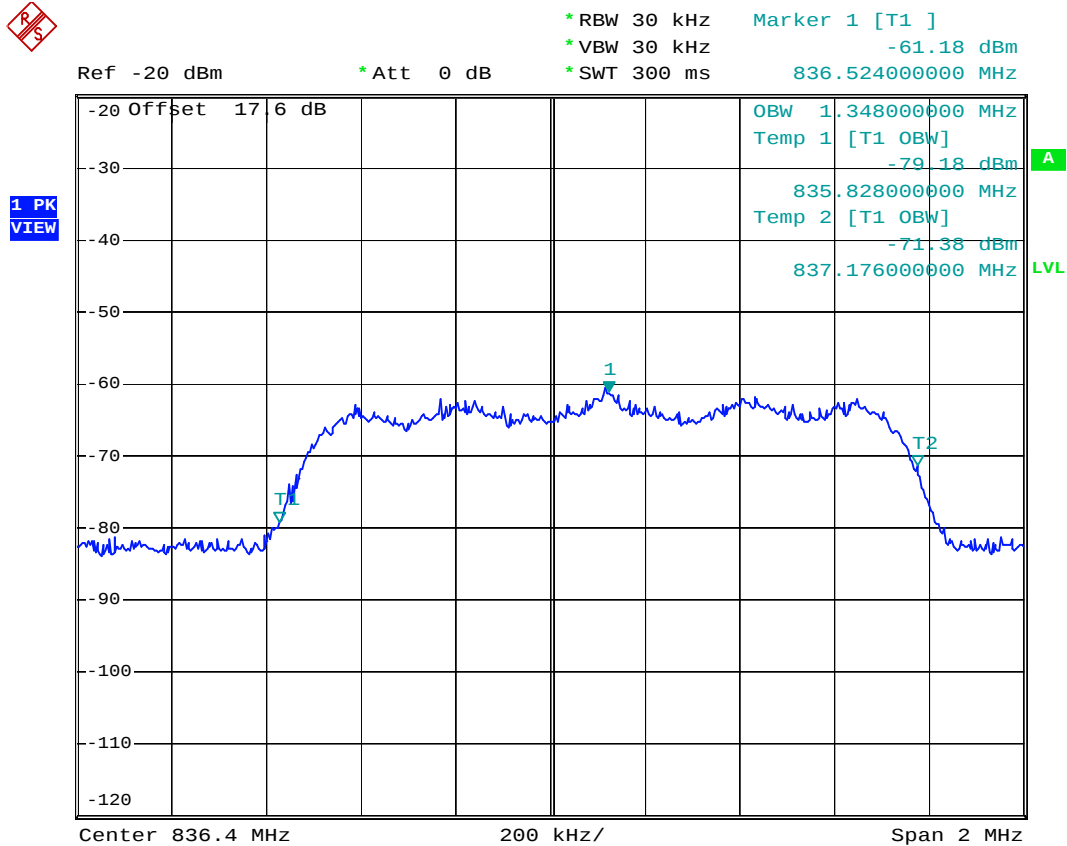
- Mode 2
- Test Mode : CDMA2000 Cellular 850 CH1013\_38.4Kbps Lower Band Edge for 1xEV-DO
- Power State : High



Date: 11.JAN.2007 03:58:24



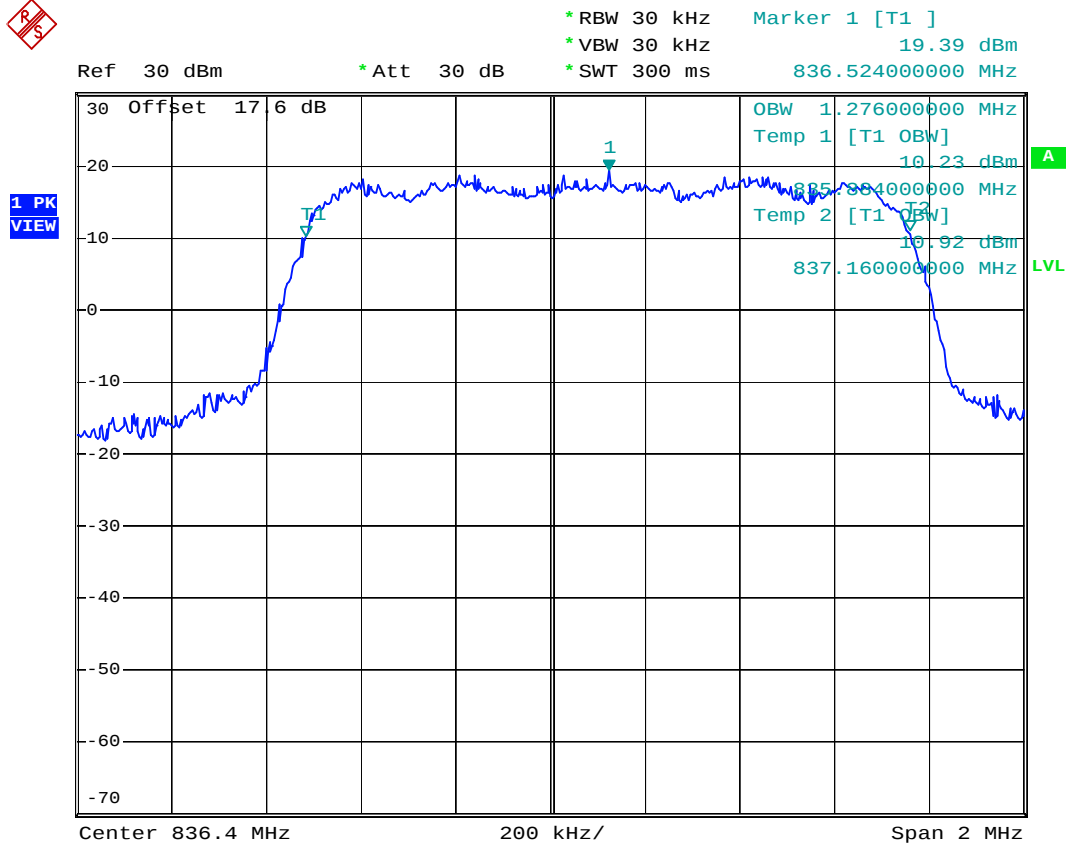
- Test Mode : CDMA2000 Cellular 850 CH384\_38.4Kbps 99% Occupied Bandwidth for 1xEV-DO
- Power State : Low



Date: 11.JAN.2007 03:51:09



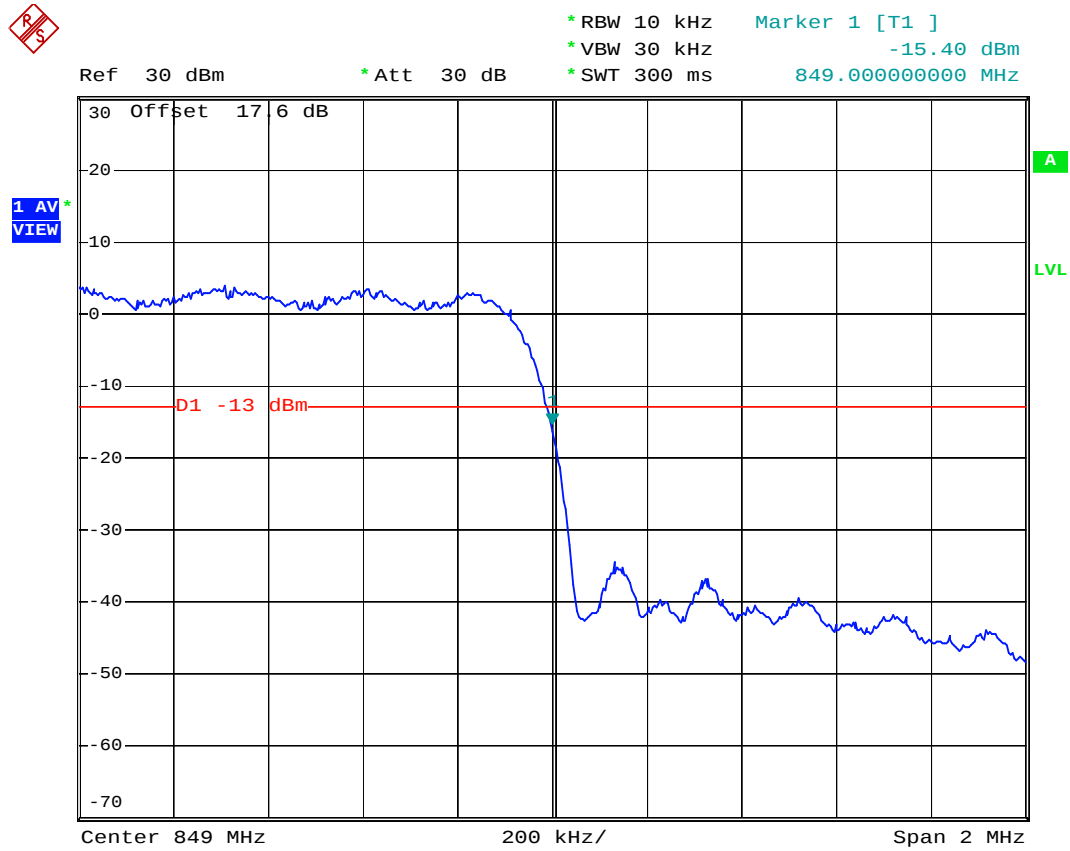
- Test Mode : CDMA2000 Cellular 850 CH384\_38.4Kbps 99% Occupied Bandwidth for 1xEV-DO
- Power State : High



Date: 11.JAN.2007 03:50:04



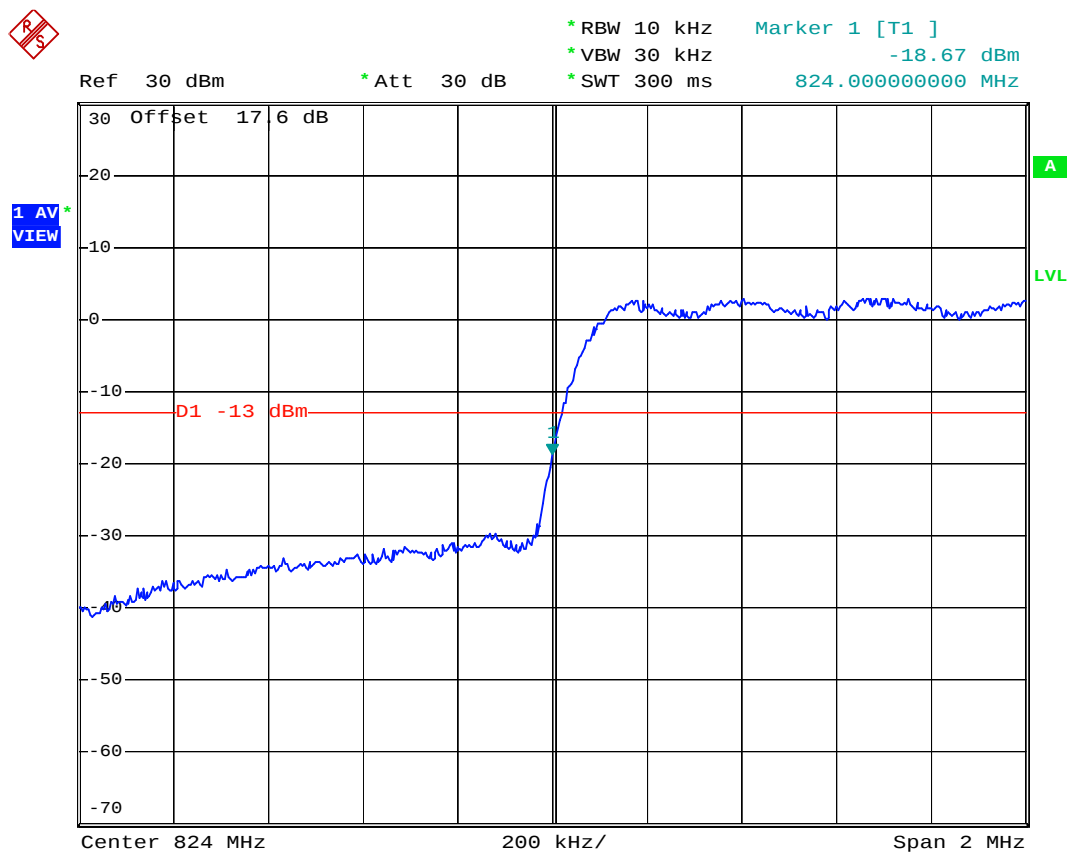
- Test Mode : CDMA2000 Cellular 850 CH777\_38.4Kbps Higher Band Edge for 1xEV-DO
- Power State : High



Date: 11.JAN.2007 04:01:49



- Test Mode : CDMA2000 Cellular 850 CH1013\_9.6Kbps Lower Band Edge for 1xEV-DO
- Power State : High



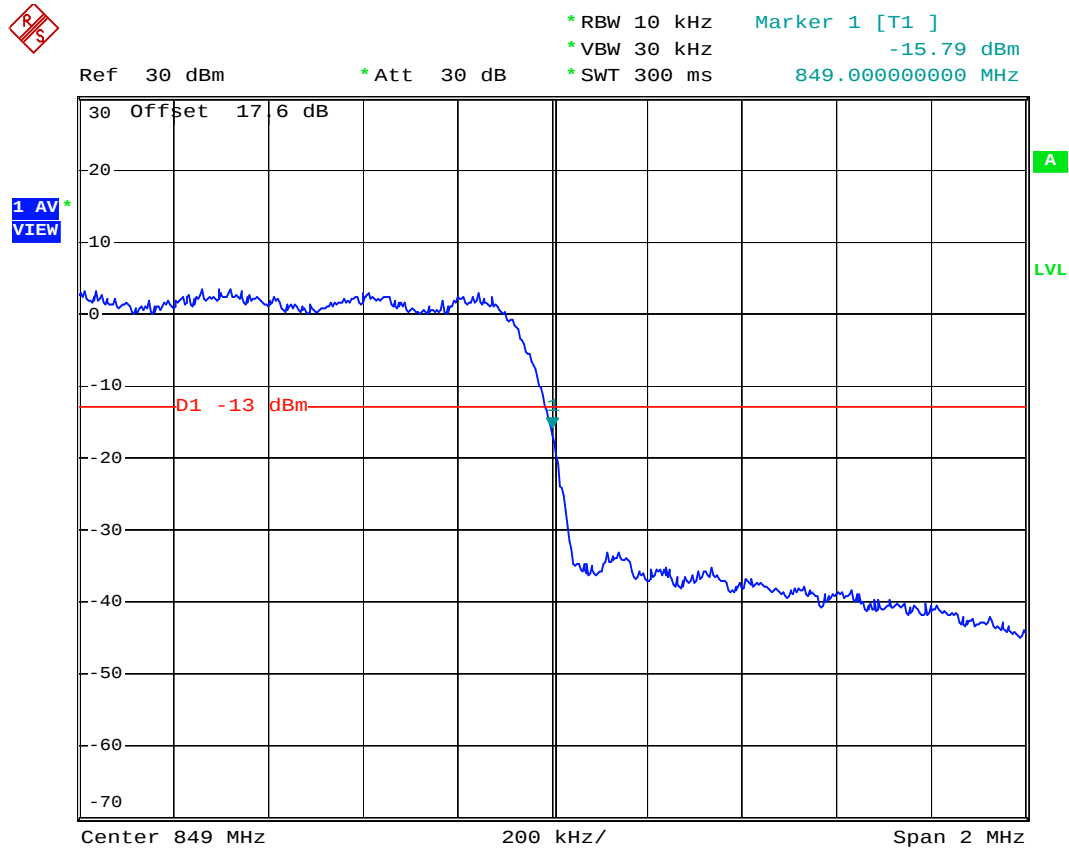
Date: 11.JAN.2007 04:10:55



## FCC/IC TEST REPORT

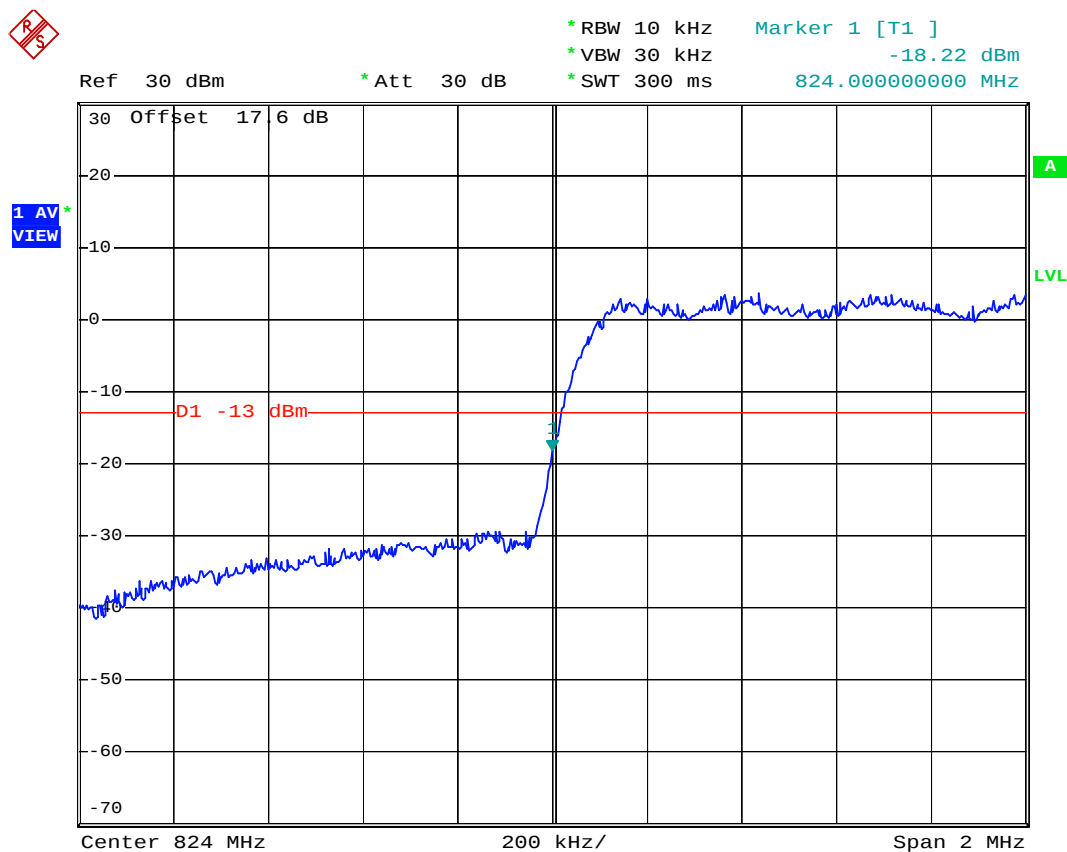
Report No. : FG711111

- Test Mode : CDMA2000 Cellular 850 CH777\_9.6Kbps Higher Band Edge for 1xEV-DO
- Power State : High



Date: 11.JAN.2007 04:09:35

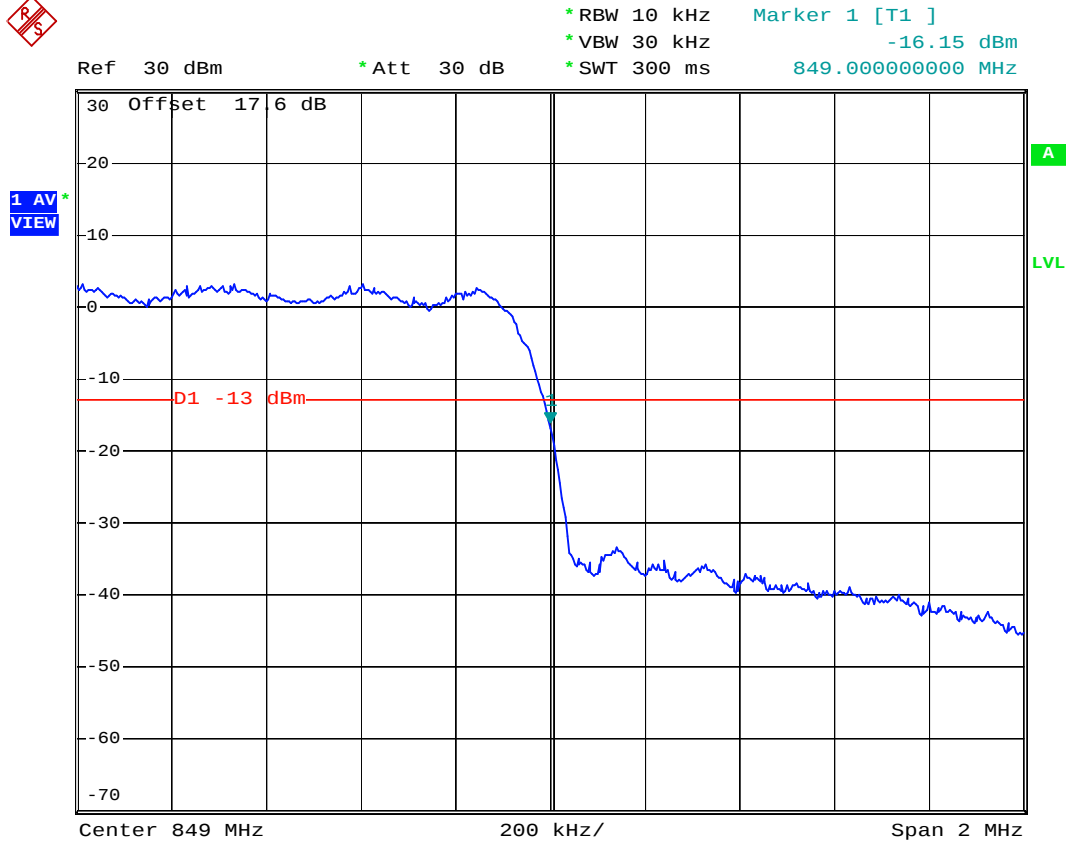
- Test Mode : CDMA2000 Cellular 850 CH1013\_153.6Kbps Lower Band Edge for 1xEV-DO
- Power State : High



Date: 11.JAN.2007 04:11:30



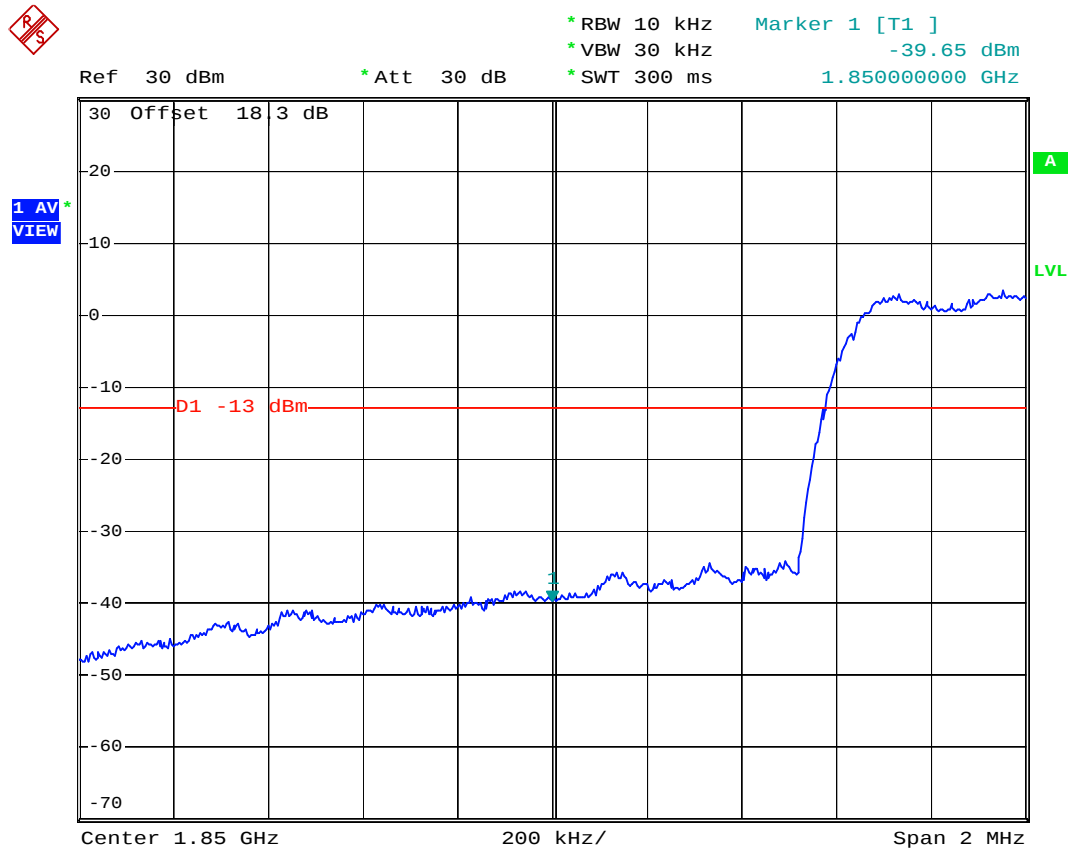
- Test Mode : CDMA2000 Cellular 850 CH777\_153.6Kbps Higher Band Edge for 1xEV-DO
- Power State : High



Date: 11.JAN.2007 04:09:05



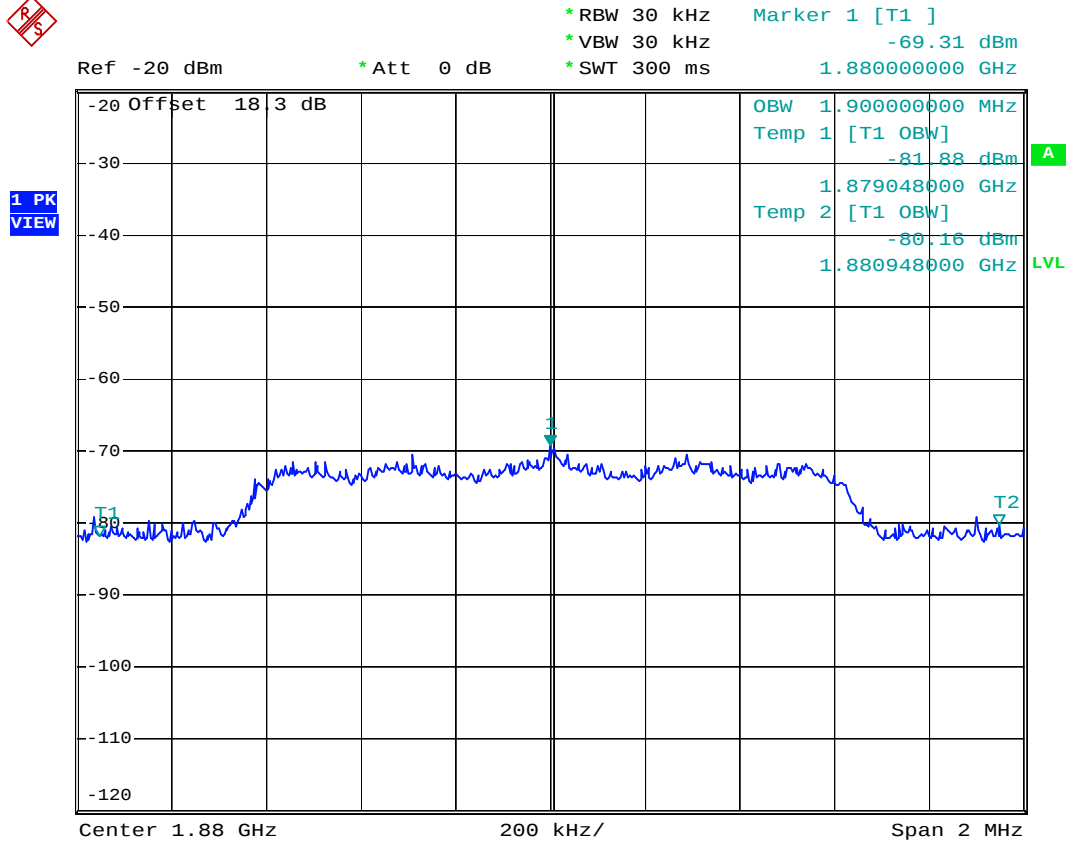
- Mode 3
- Test Mode : CDMA2000 PCS 1900 Band CH25\_FCH\_RC3 Lower Band Edge for 1xRTT
- Power State : High



Date: 9.JAN.2007 20:31:24



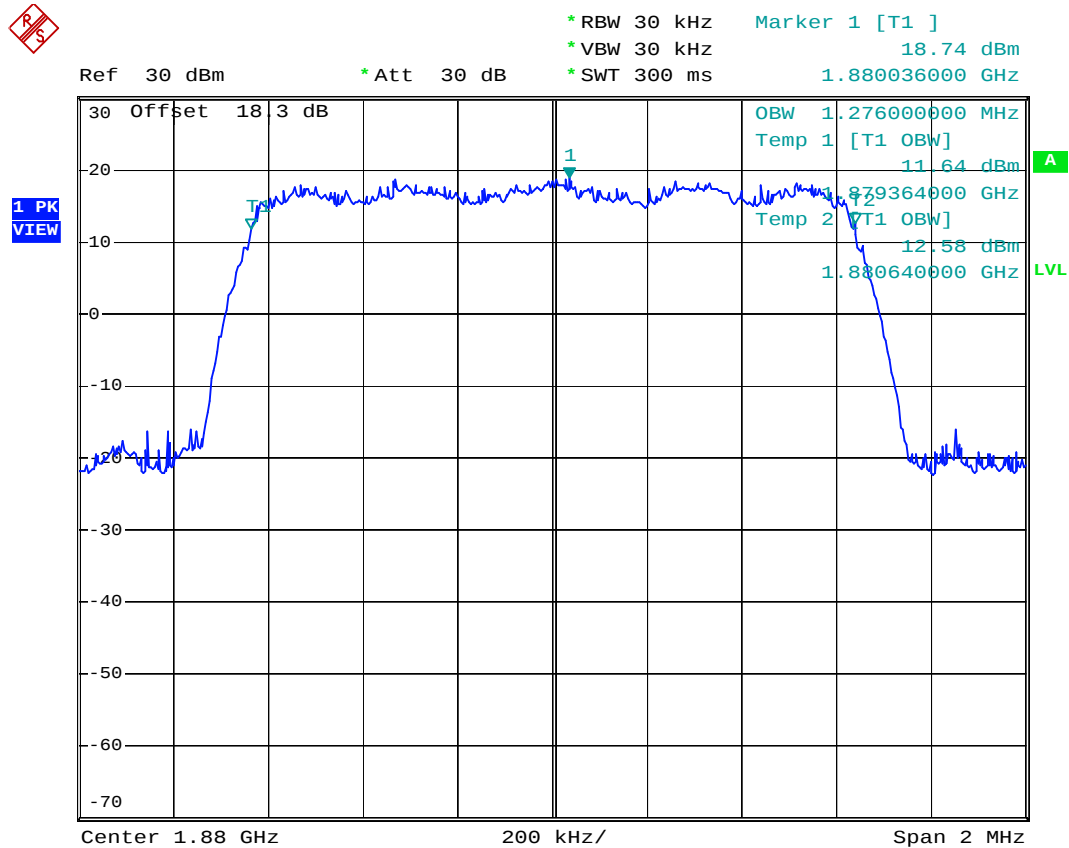
- Test Mode : CDMA2000 PCS 1900 CH600 99% Occupied Bandwidth for 1xRTT
- Power State : Low



Date: 9.JAN.2007 20:37:55



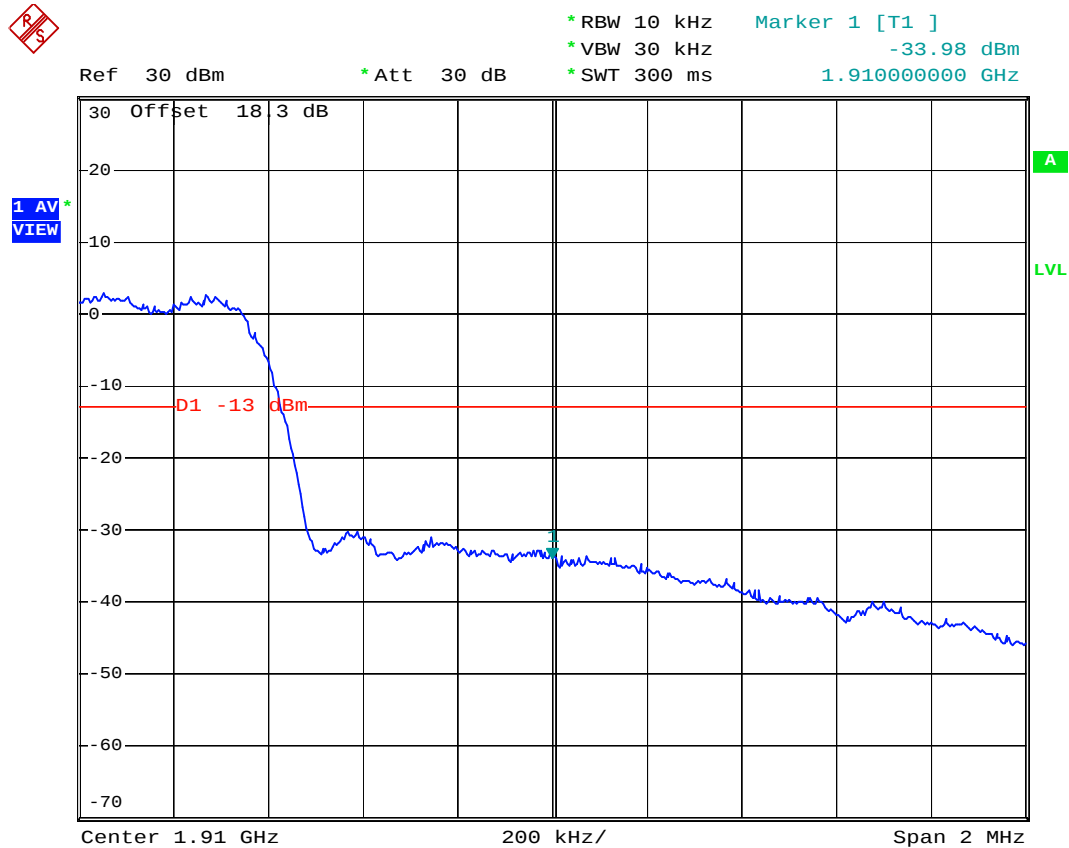
- Test Mode : CDMA2000 PCS 1900 CH600 99% Occupied Bandwidth for 1xRTT
- Power State : High



Date: 9.JAN.2007 20:34:21



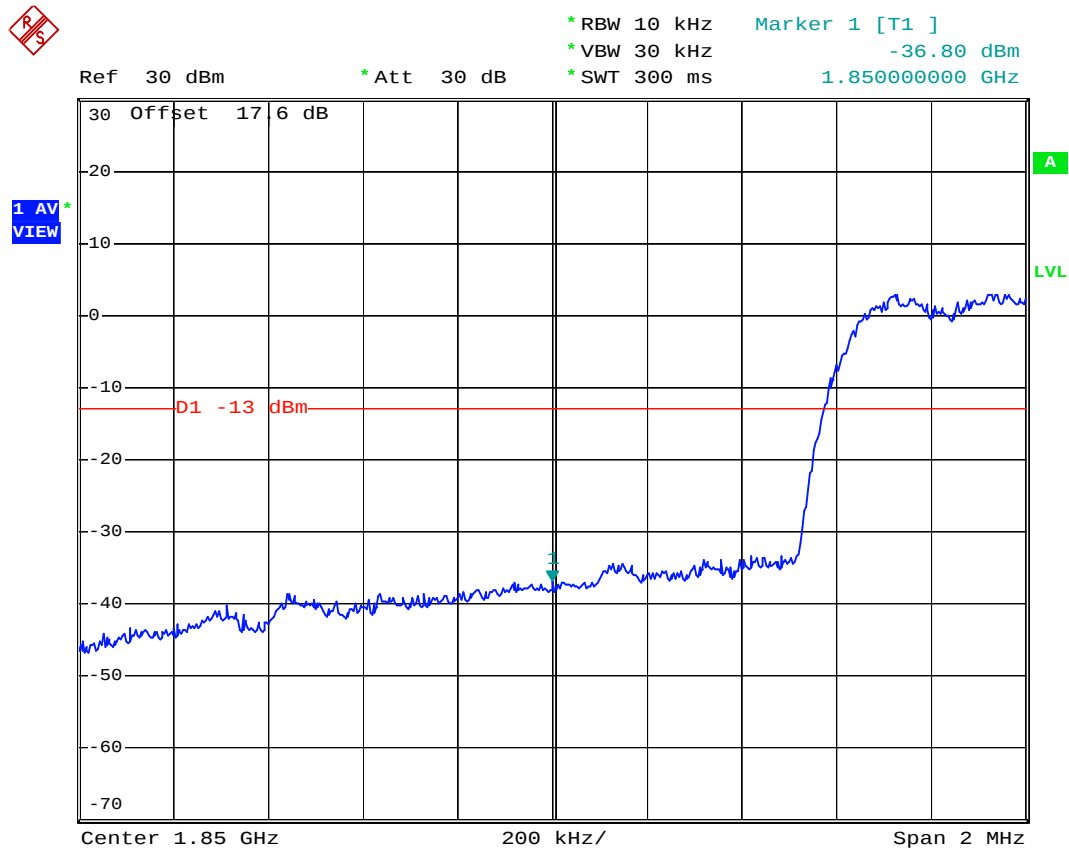
- Test Mode : CDMA2000 PCS 1900 CH1175\_FCH\_RC3 Higher Band Edge for 1xRTT
- Power State : High



Date: 9.JAN.2007 20:32:11



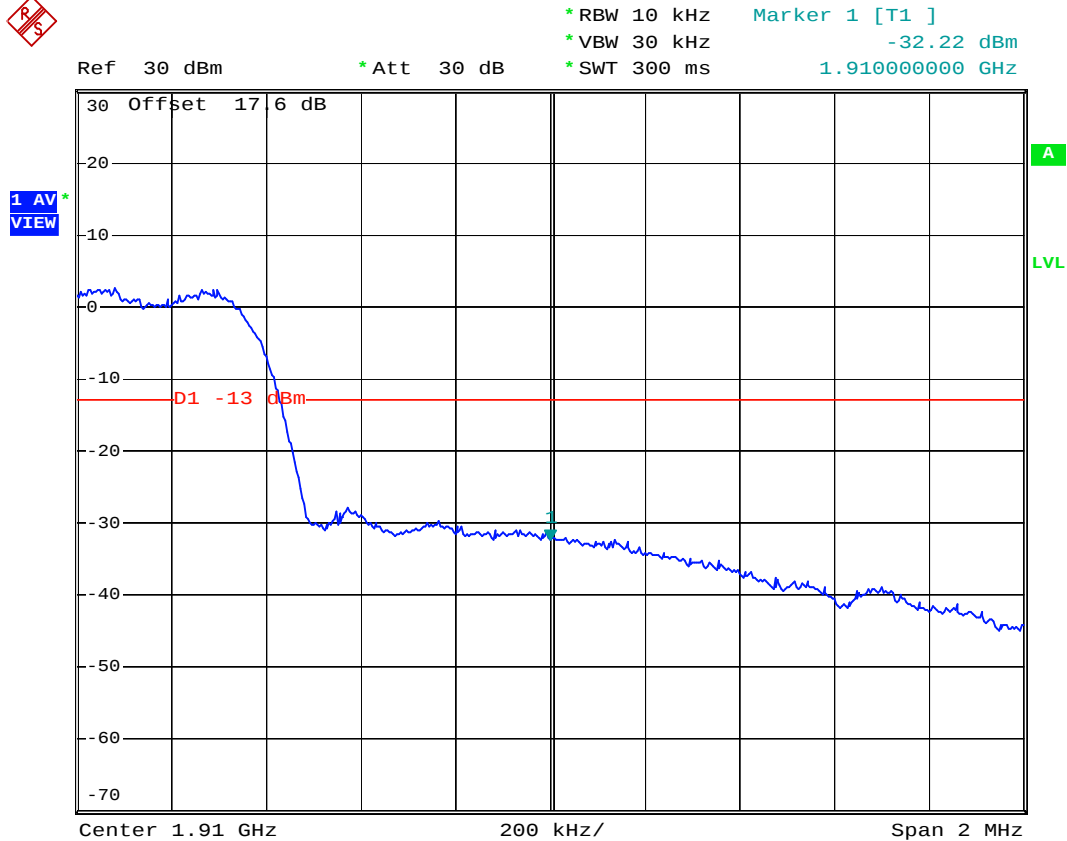
- Test Mode : CDMA2000 PCS 1900 Band CH25\_FCH\_RC1 Lower Band Edge for 1xRTT
- Power State : High



Date: 11.JAN.2007 17:22:05



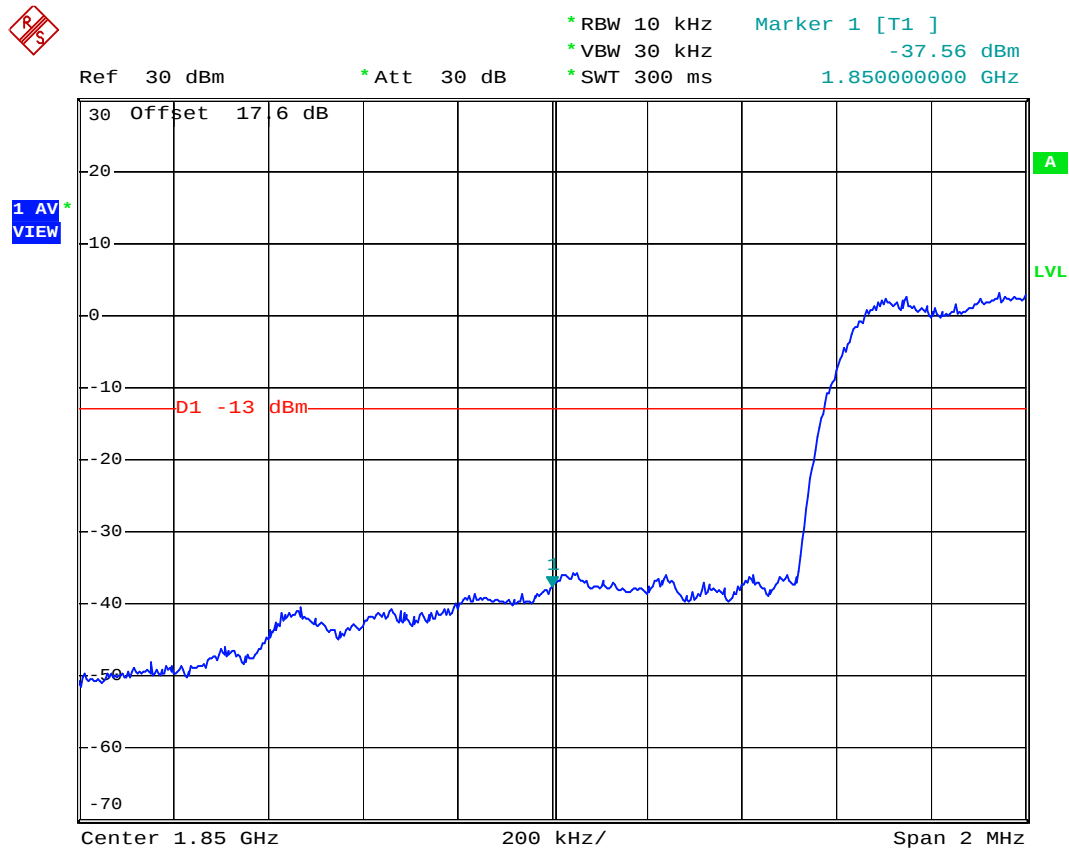
- Test Mode : CDMA2000 Cellular 850 CH1175\_FCH\_RC1 Higher Band Edge for 1xRTT
- Power State : High



Date: 11.JAN.2007 17:20:36



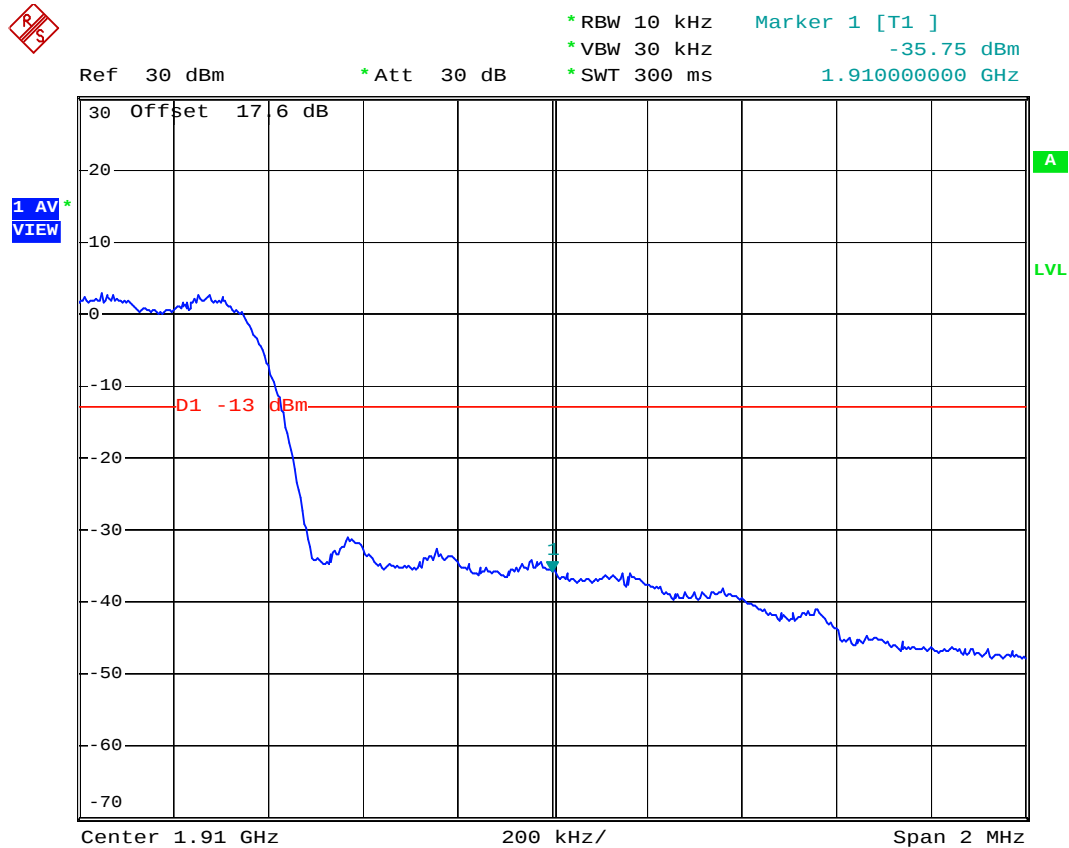
- Test Mode : CDMA2000 PCS 1900 Band CH25\_FCH+SCH\_RC1 Lower Band Edge for 1xRTT
- Power State : High



Date: 11.JAN.2007 17:23:50



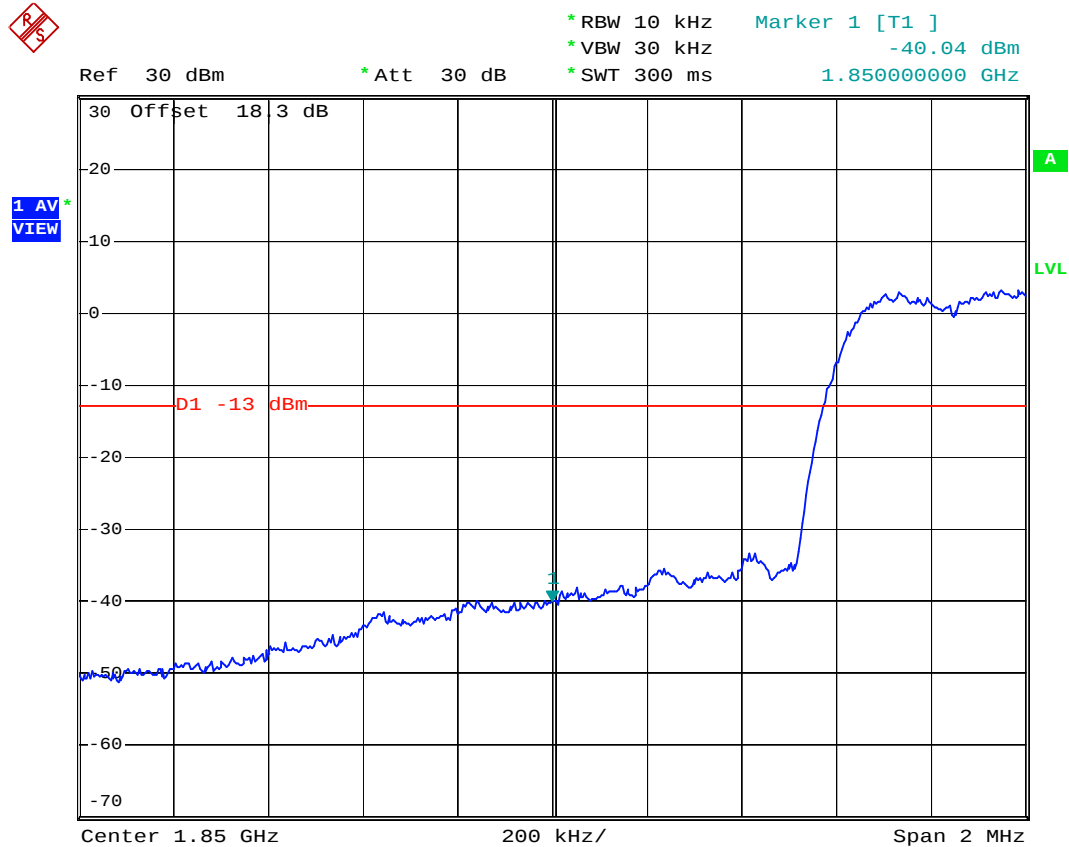
- Test Mode : CDMA2000 PCS 1900 CH1175\_FCH+SCH\_RC1 Higher Band Edge for 1xRTT
- Power State : High



Date: 11.JAN.2007 17:24:23



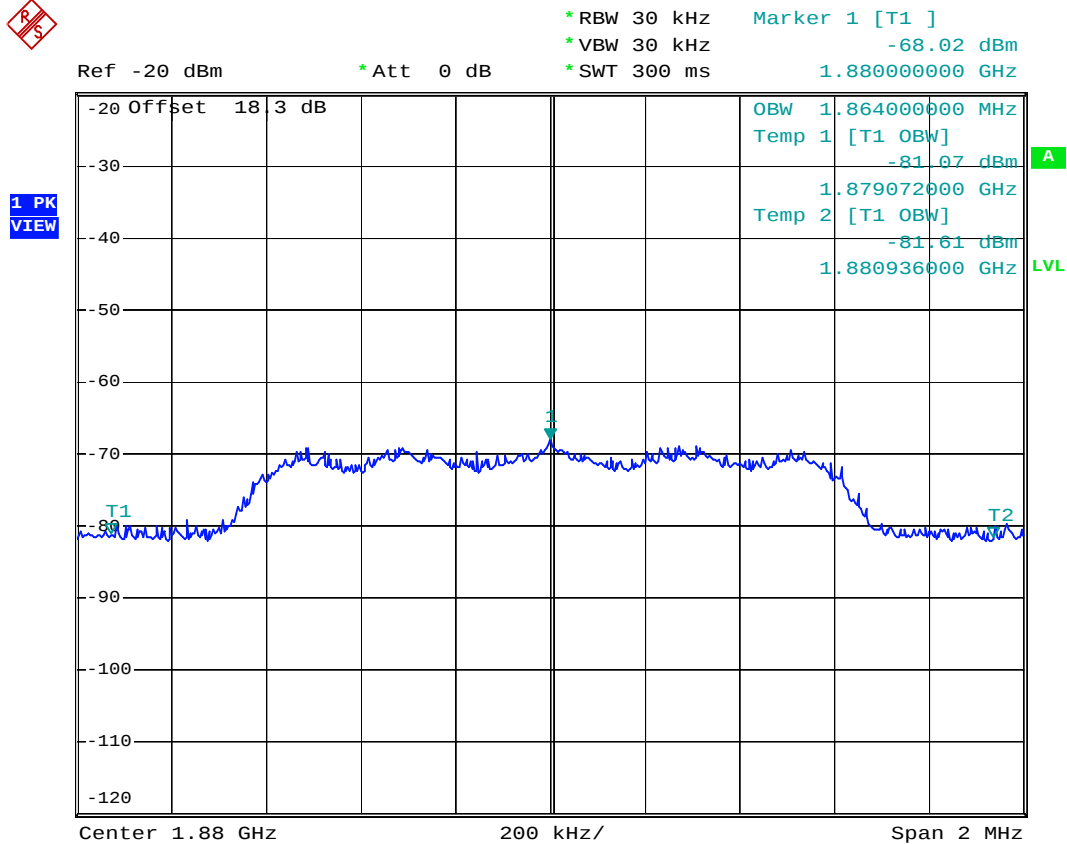
- Mode 4
- Test Mode : CDMA2000 PCS 1900 CH25\_38.4Kbps Lower Band Edge for 1xEV-DO
- Power State : High



Date: 10.JAN.2007 18:54:50



- Test Mode : CDMA2000 PCS 1900 CH600\_38.4Kbps 99% Occupied Bandwidth for 1xEV-DO
- Power State : Low



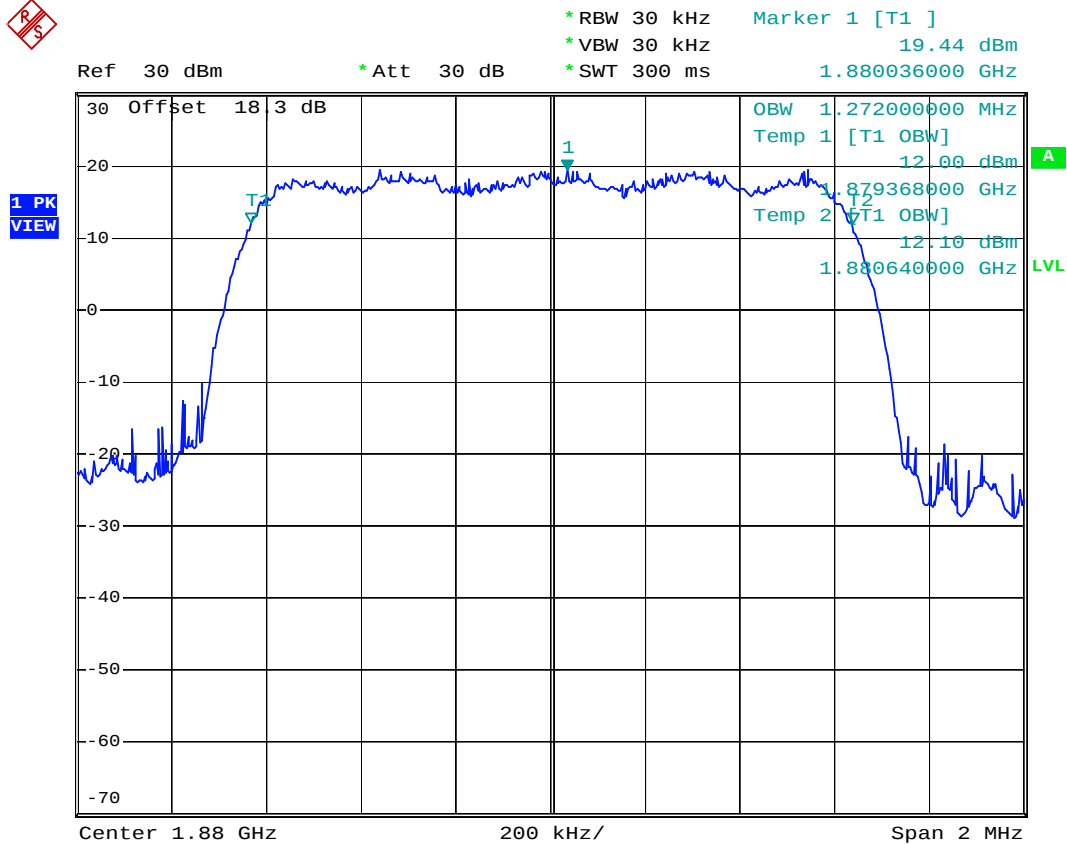
Date: 10.JAN.2007 18:52:22



## FCC/IC TEST REPORT

Report No. : FG711111

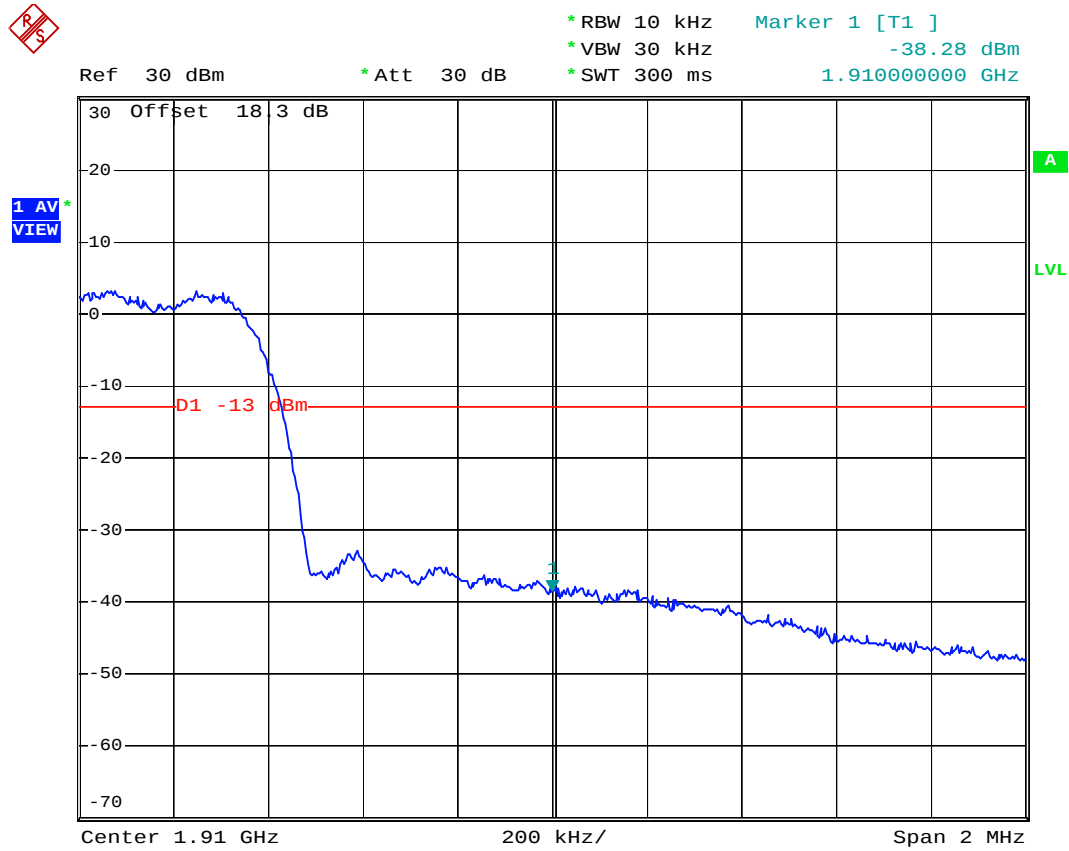
- Test Mode : CDMA2000 PCS 1900 CH600\_38.4Kbps 99% Occupied Bandwidth for 1xEV-DO
- Power State : High



Date: 10.JAN.2007 18:47:58



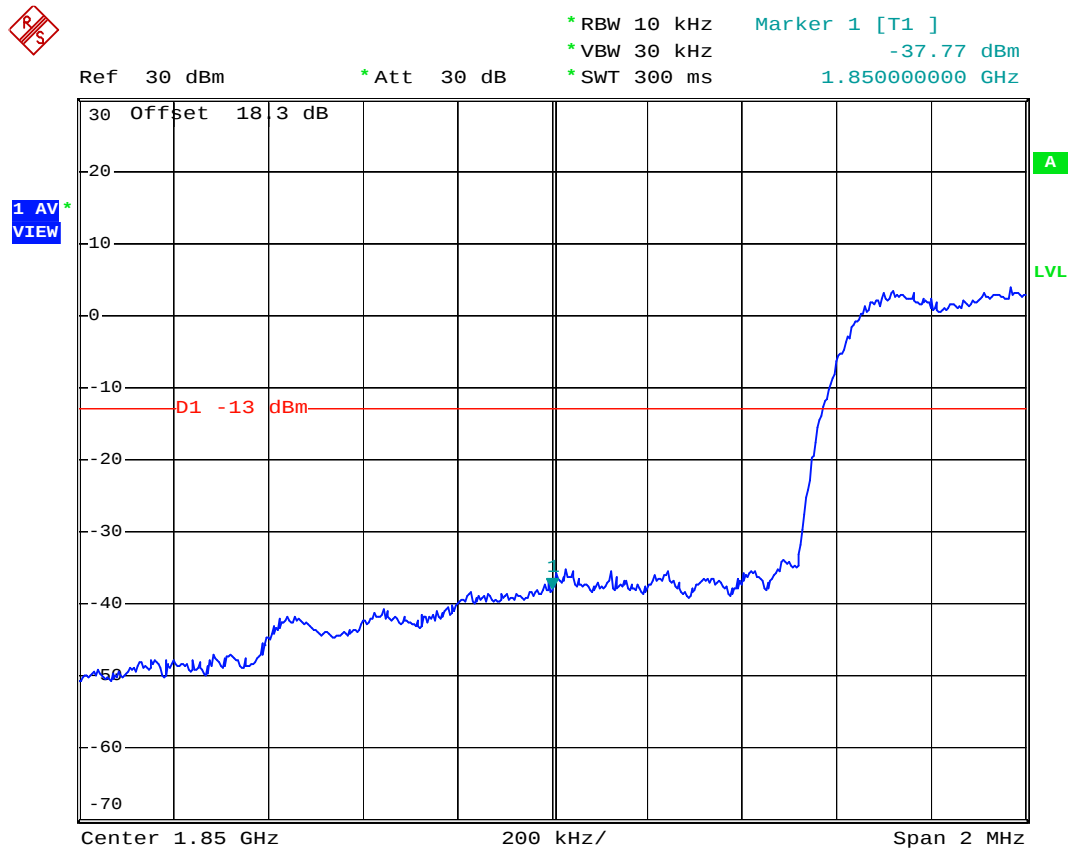
- Test Mode : CDMA2000 PCS 1900 CH1175\_38.4Kbps Higher Band Edge for 1xEV-DO
- Power State : High



Date: 10.JAN.2007 18:56:50



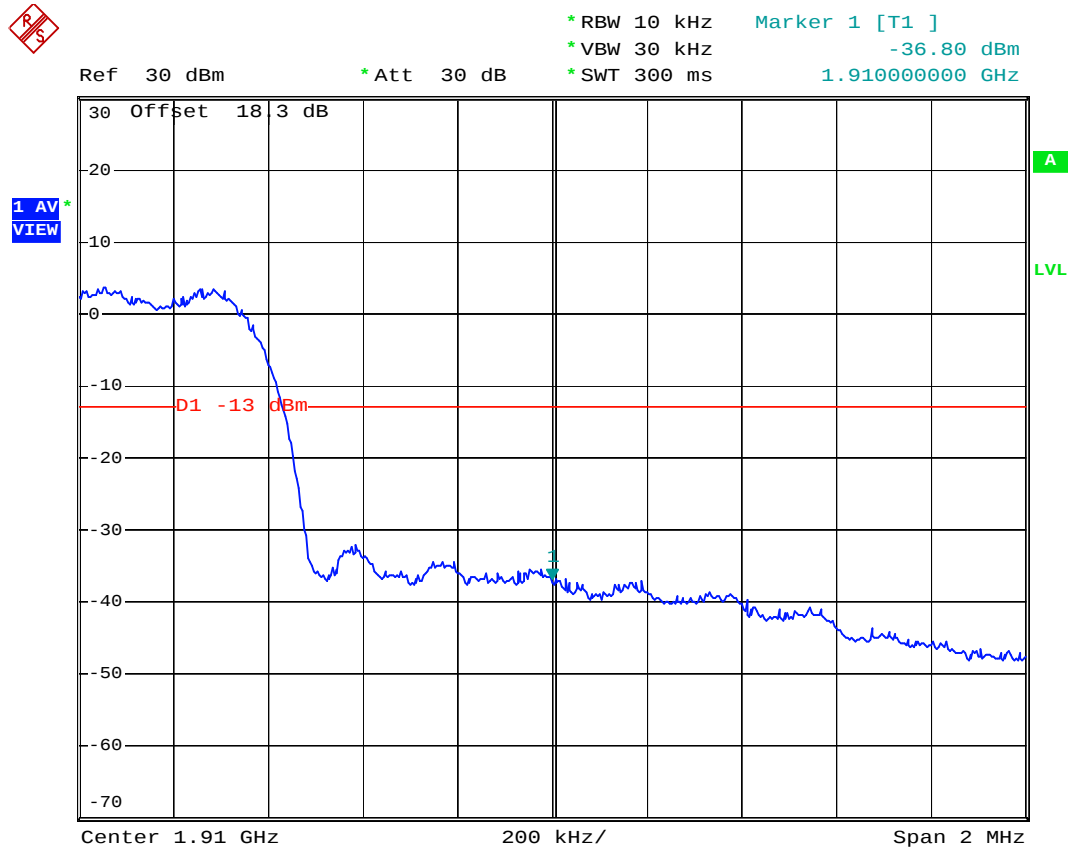
- Test Mode : CDMA2000 PCS 1900 CH25\_9.6Kbps Lower Band Edge for 1xEV-DO
- Power State : High



Date: 11.JAN.2007 16:48:36



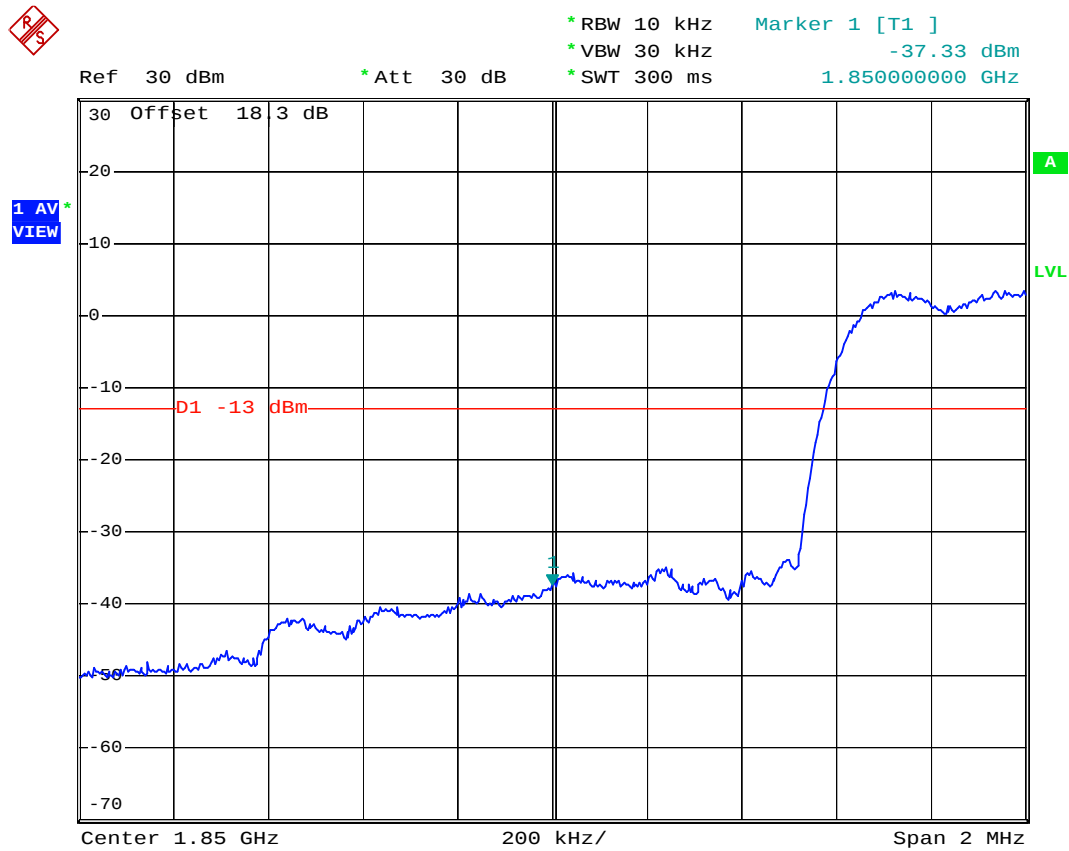
- Test Mode : CDMA2000 PCS 1900 CH1175\_9.6Kbps Higher Band Edge for 1xEV-DO
- Power State : High



Date: 11.JAN.2007 16:50:18



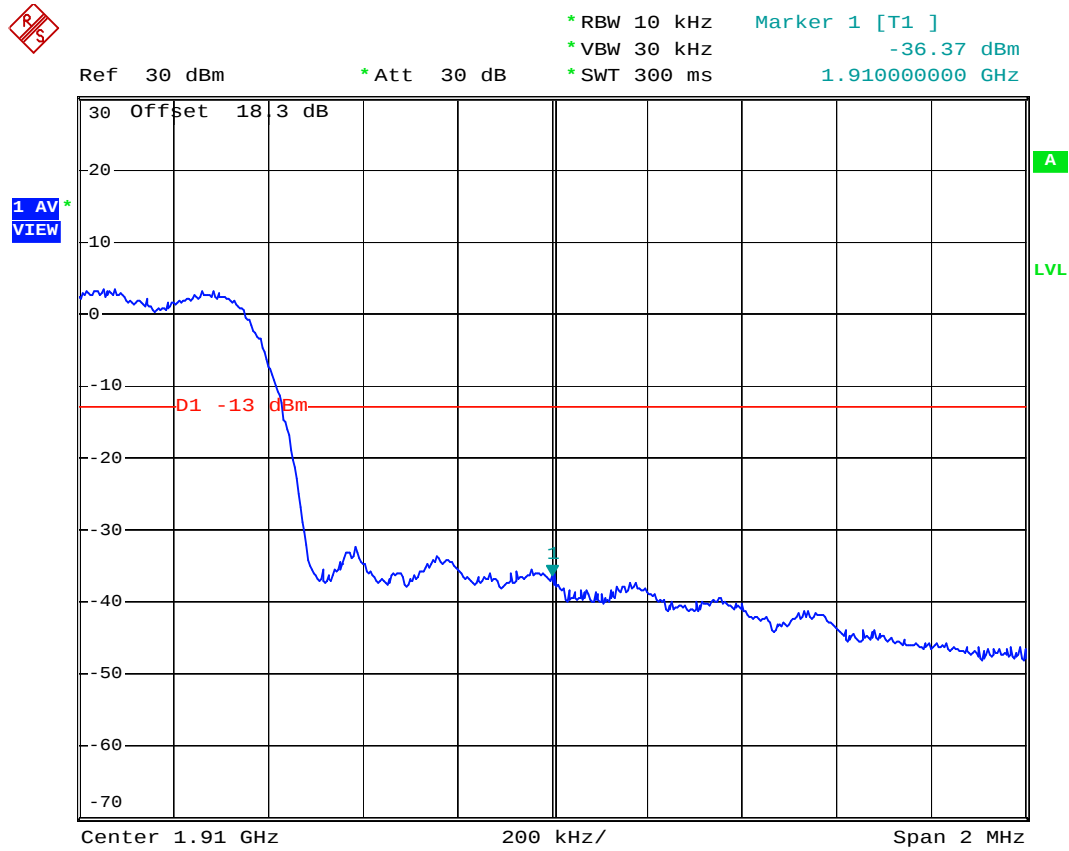
- Test Mode : CDMA2000 PCS 1900 CH25\_153.6Kbps Lower Band Edge for 1xEV-DO
- Power State : High



Date: 11.JAN.2007 16:49:21



- Test Mode : CDMA2000 PCS 1900 CH1175\_153.6Kbps Higher Band Edge for 1xEV-DO
- Power State : High



Date: 11.JAN.2007 16:49:53

## 4.5 Conducted Emission

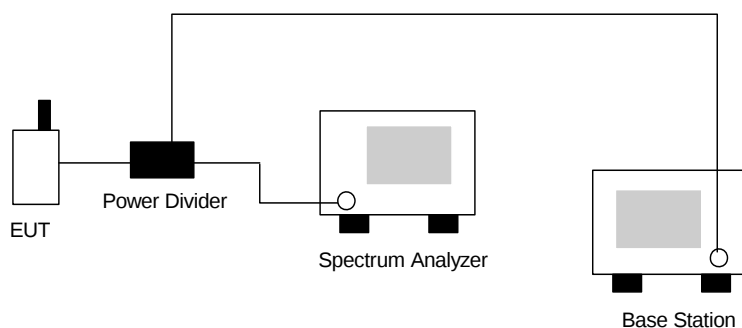
### 4.5.1 Measurement Instruments

As described in chapter 5 of this test report.

### 4.5.2 Test Procedure

1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
2. The middle channel for the highest RF power within the transmitting frequency was measured.
3. The conducted spurious emission for the whole frequency range was taken.

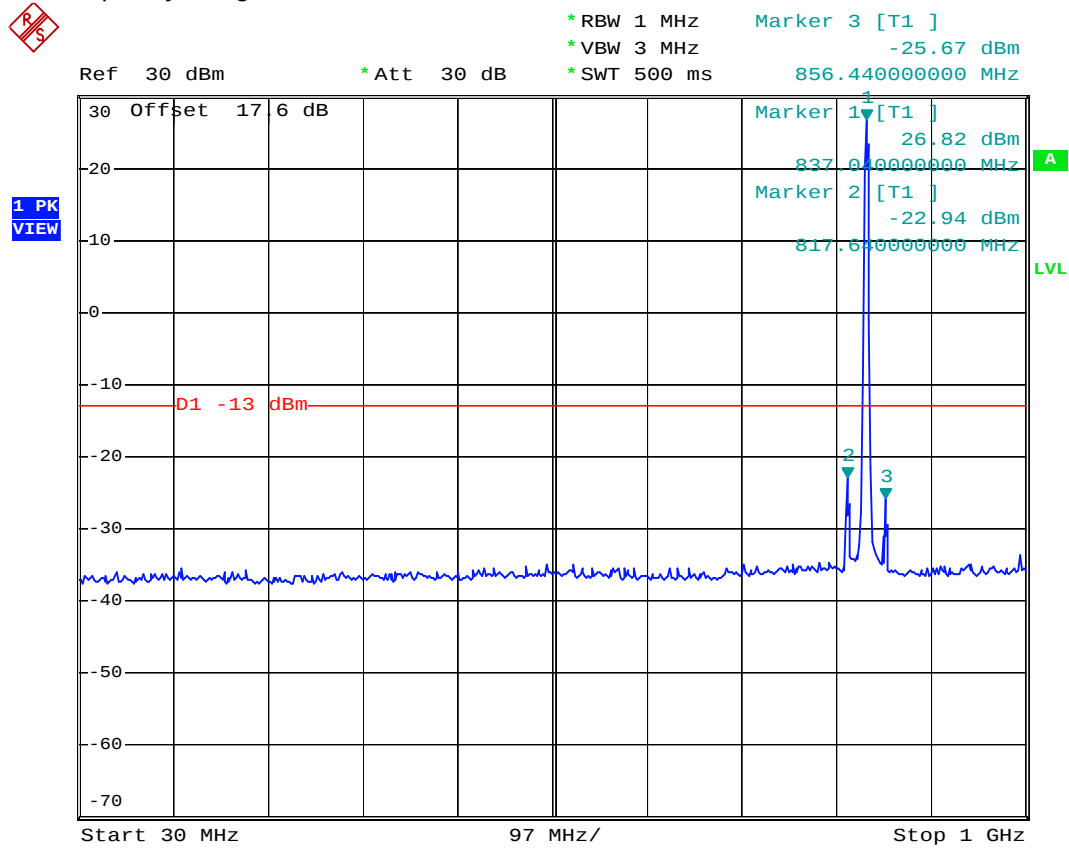
### 4.5.3 Test Setup Layout





## 4.5.4 Test Result

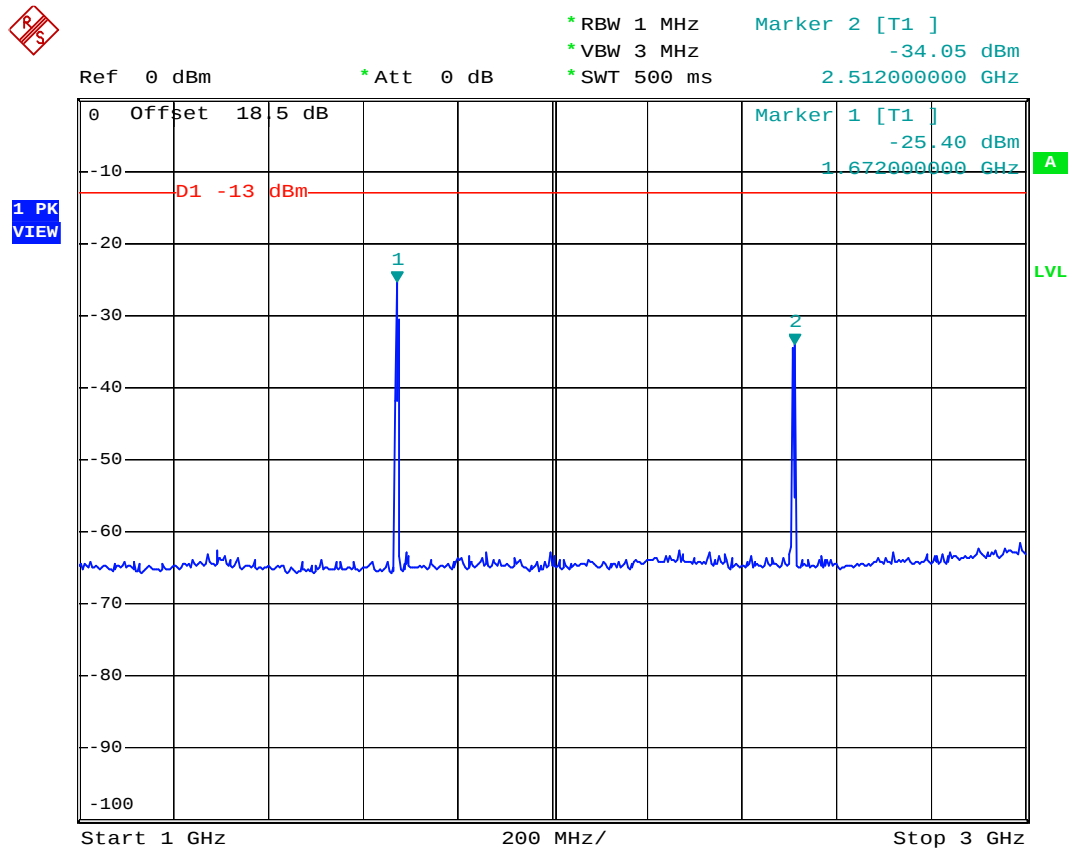
- Mode 1
- Test Mode : CDMA2000 Cellular 850 CH384 for 1xRTT
- Frequency Range : 30M-1G



Date: 9.JAN.2007 19:53:00



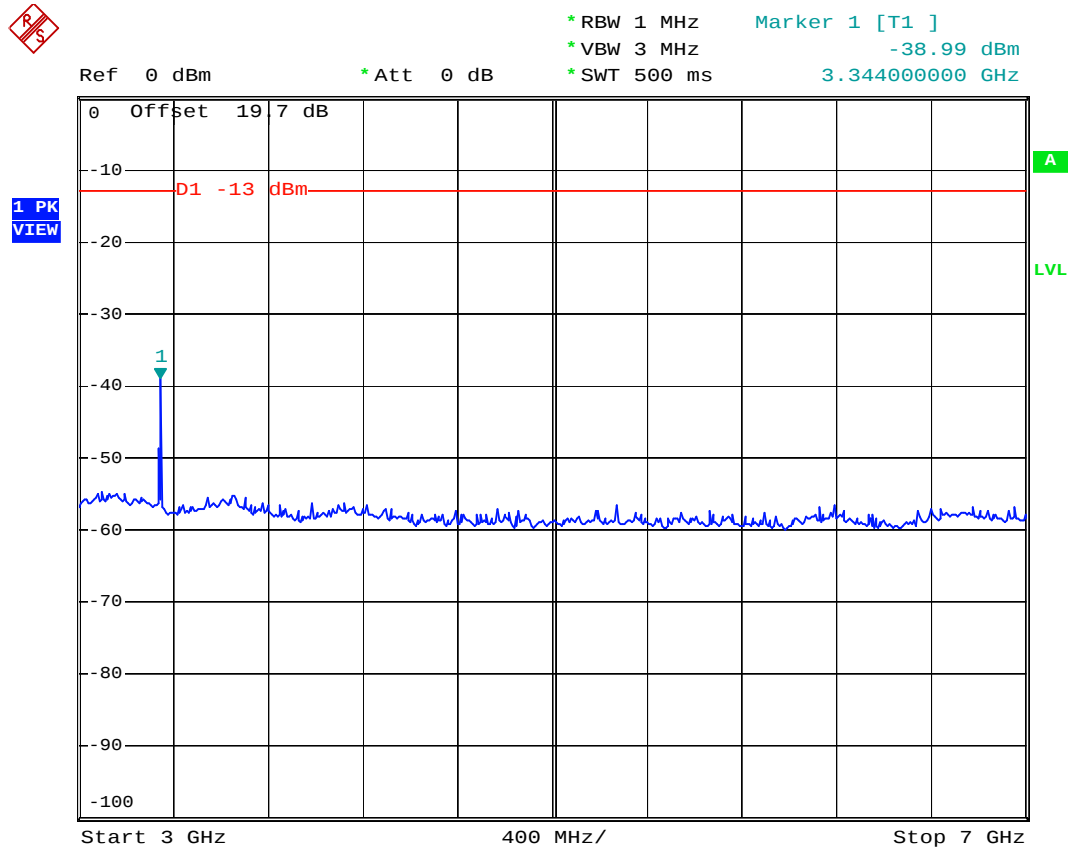
- Test Mode : CDMA2000 Cellular 850 CH384 for 1xRTT
- Frequency Range : 1G-3G



Date: 9.JAN.2007 19:55:31



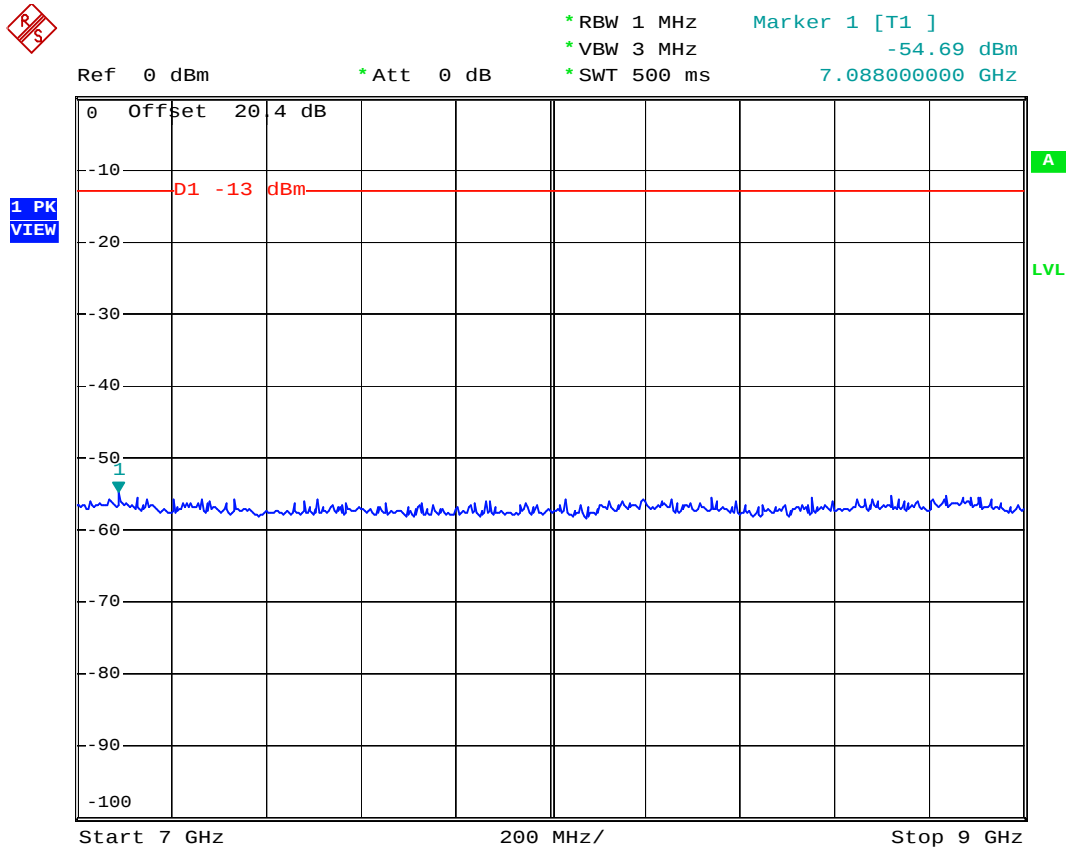
- Test Mode : CDMA2000 Cellular 850 CH384 for 1xRTT
- Frequency Range : 3G-7G



Date: 9.JAN.2007 19:56:13



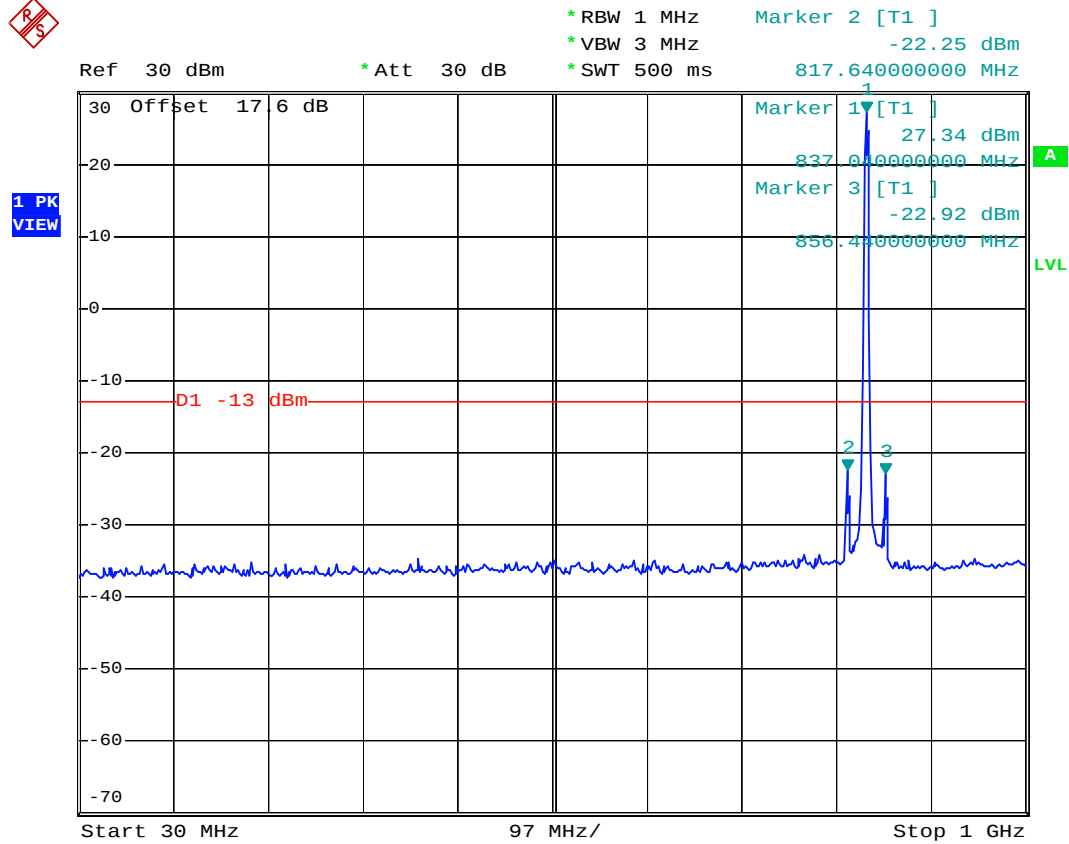
- Test Mode : CDMA2000 Cellular 850 CH384 for 1xRTT
- Frequency Range : 7G-9G



Date: 9.JAN.2007 19:57:11



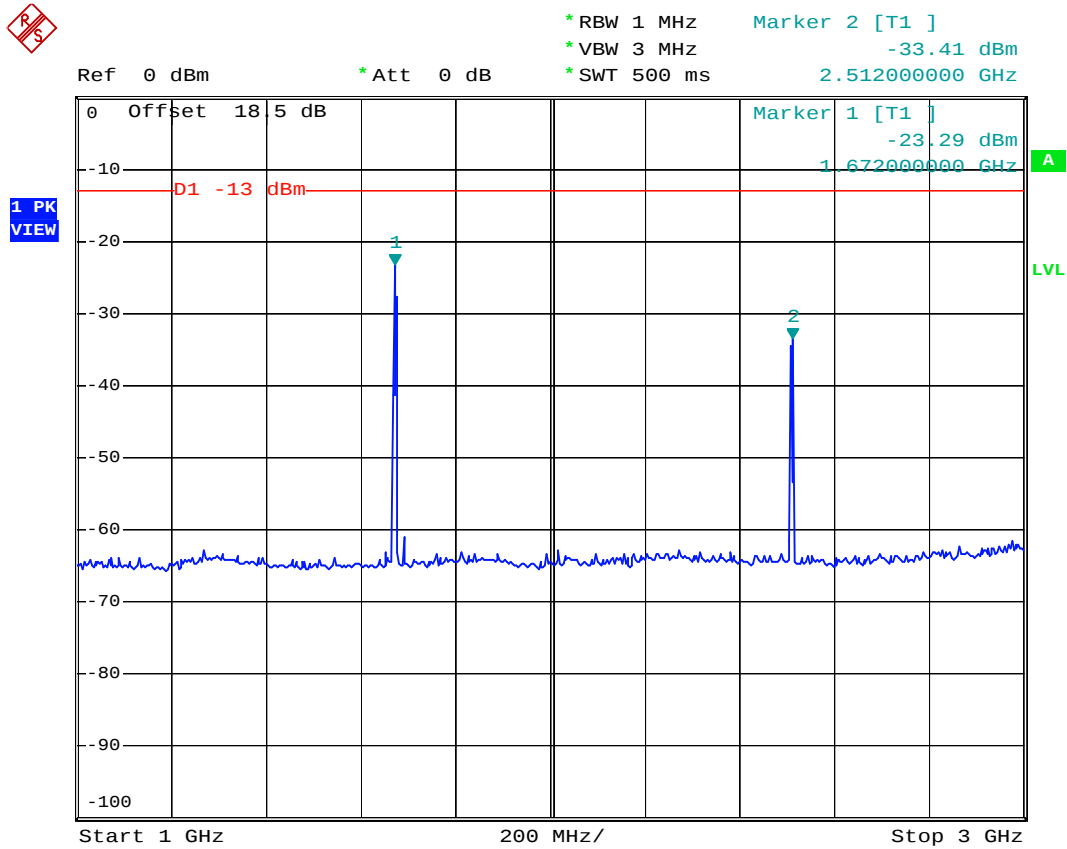
- Mode 2
- Test Mode : CDMA2000 Cellular 850 CH384 for 1xEV-DO
- Frequency Range : 30M-1G



Date: 11.JAN.2007 04:17:57



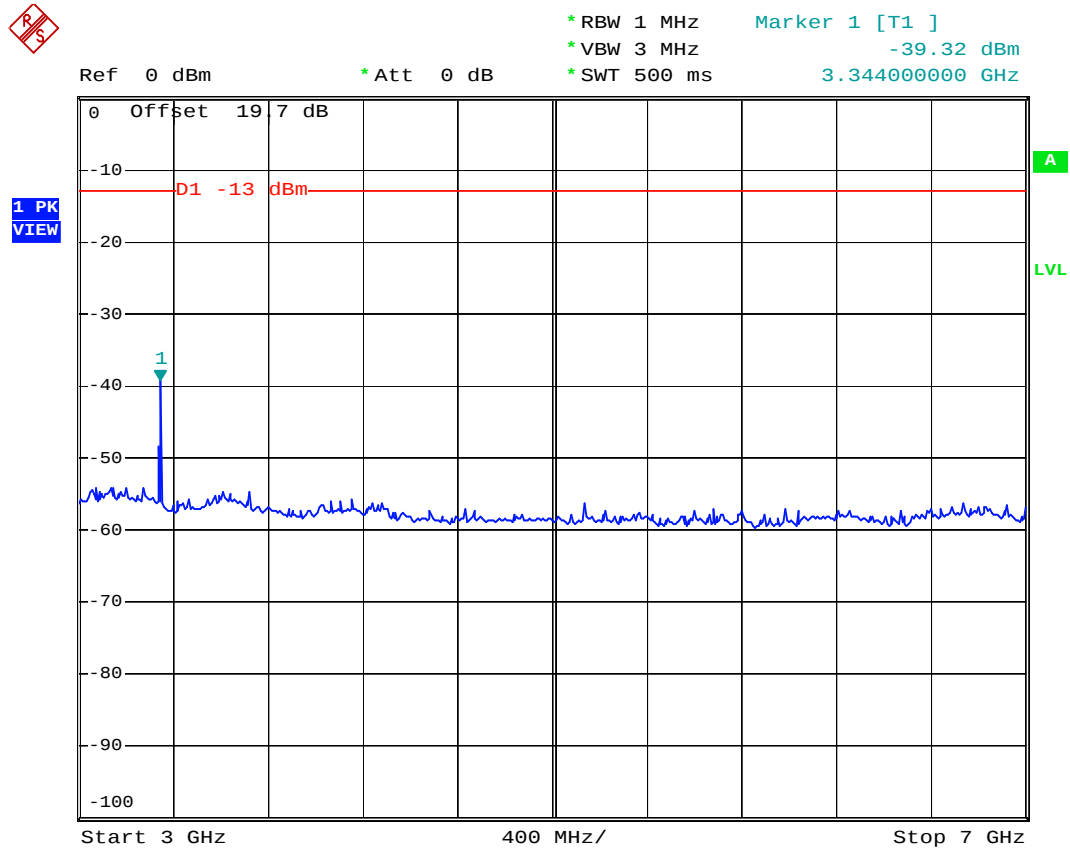
- Test Mode : CDMA2000 Cellular 850 CH384 for 1xEV-DO
- Frequency Range : 1G-3G



Date: 11.JAN.2007 04:26:32



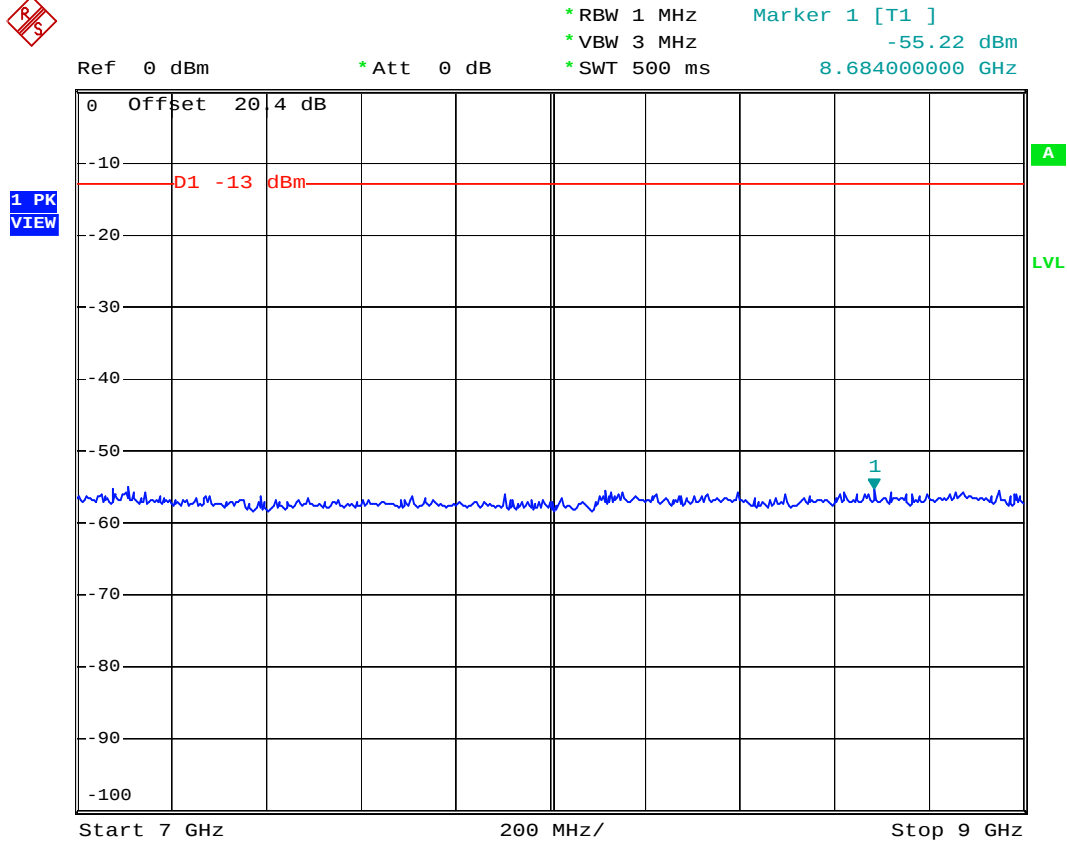
- Test Mode : CDMA2000 Cellular 850 CH384 for 1xEV-DO
- Frequency Range : 3G-7G



Date: 11.JAN.2007 04:27:40



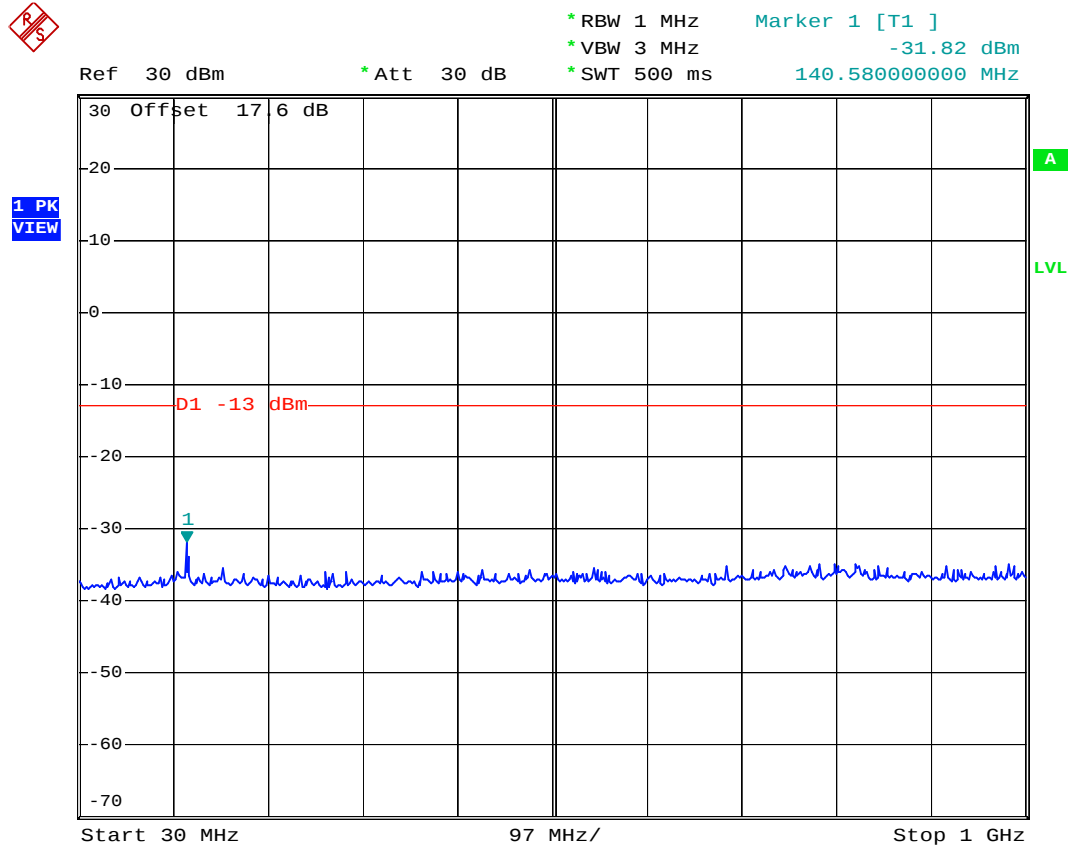
- Test Mode : CDMA2000 Cellular 850 CH384 for 1xEV-DO
- Frequency Range : 7G-9G



Date: 11.JAN.2007 04:28:48



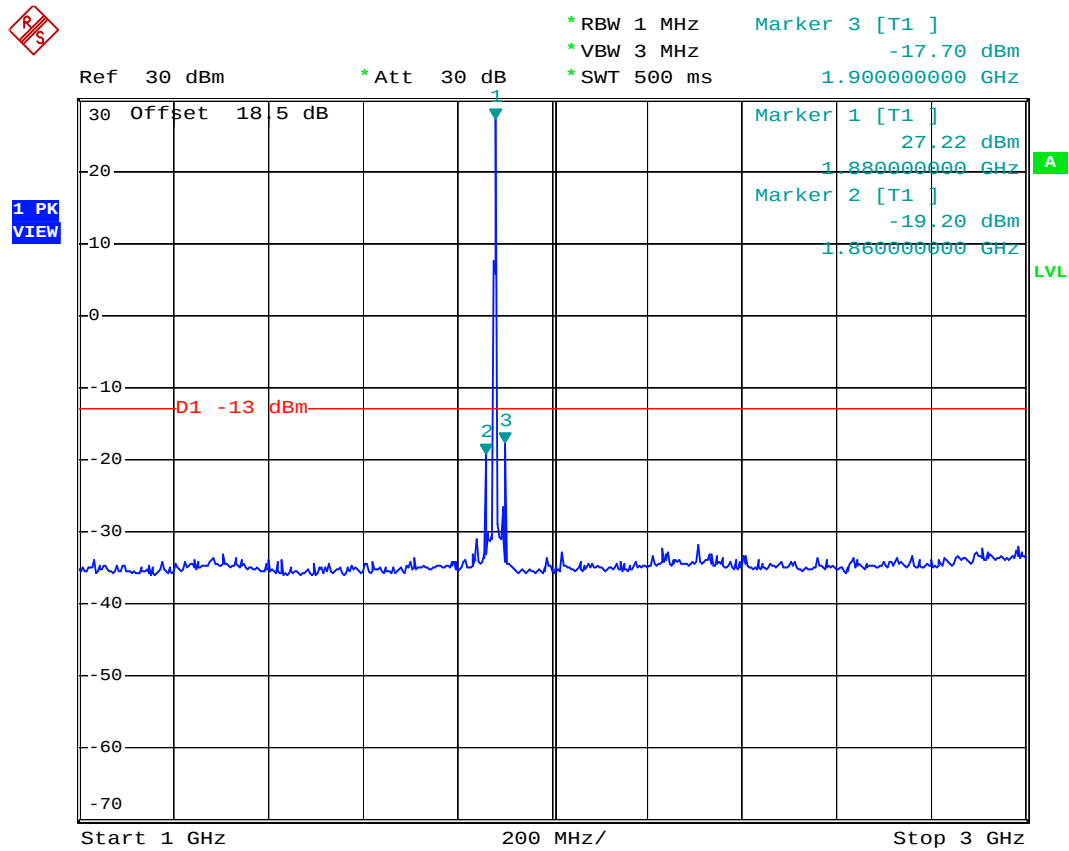
- Mode 3
- Test Mode : CDMA2000 PCS 1900 CH600 for 1xRTT
- Frequency Range : 30M-1G



Date: 9.JAN.2007 20:41:00



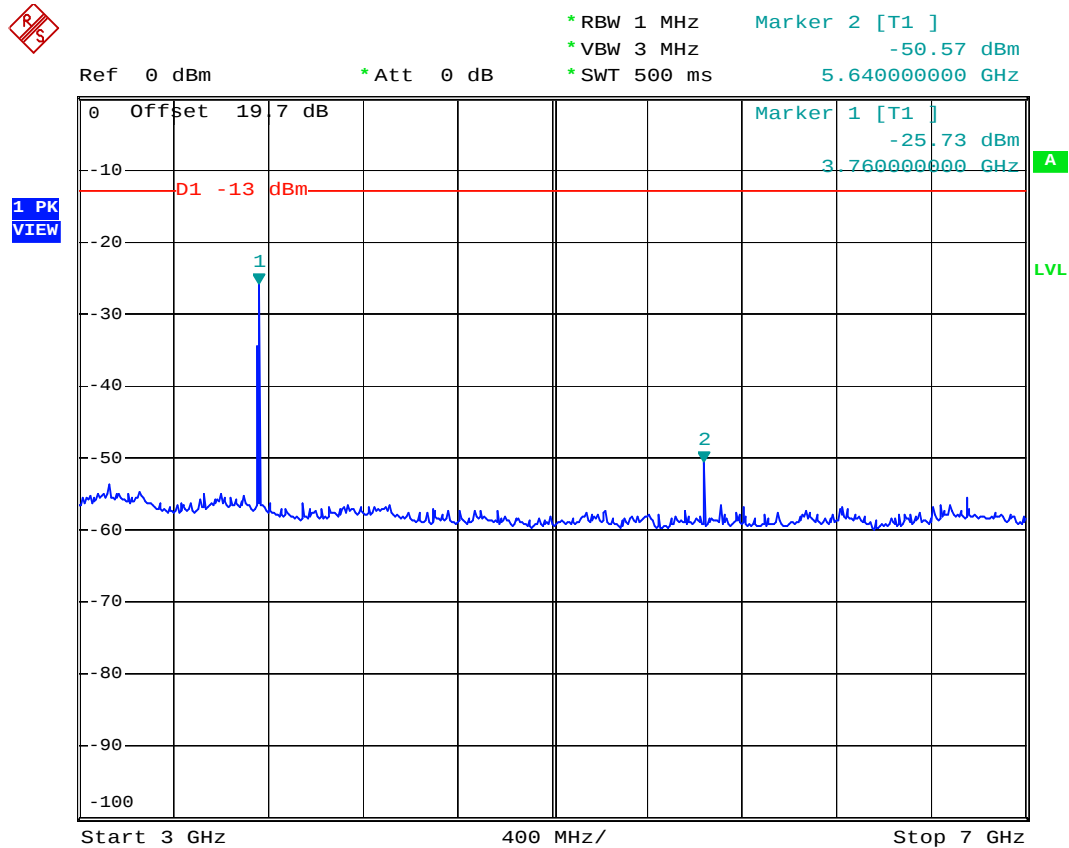
- Test Mode : CDMA2000 PCS 1900 CH600 for 1xRTT
- Frequency Range : 1G-3G



Date: 9.JAN.2007 20:43:25



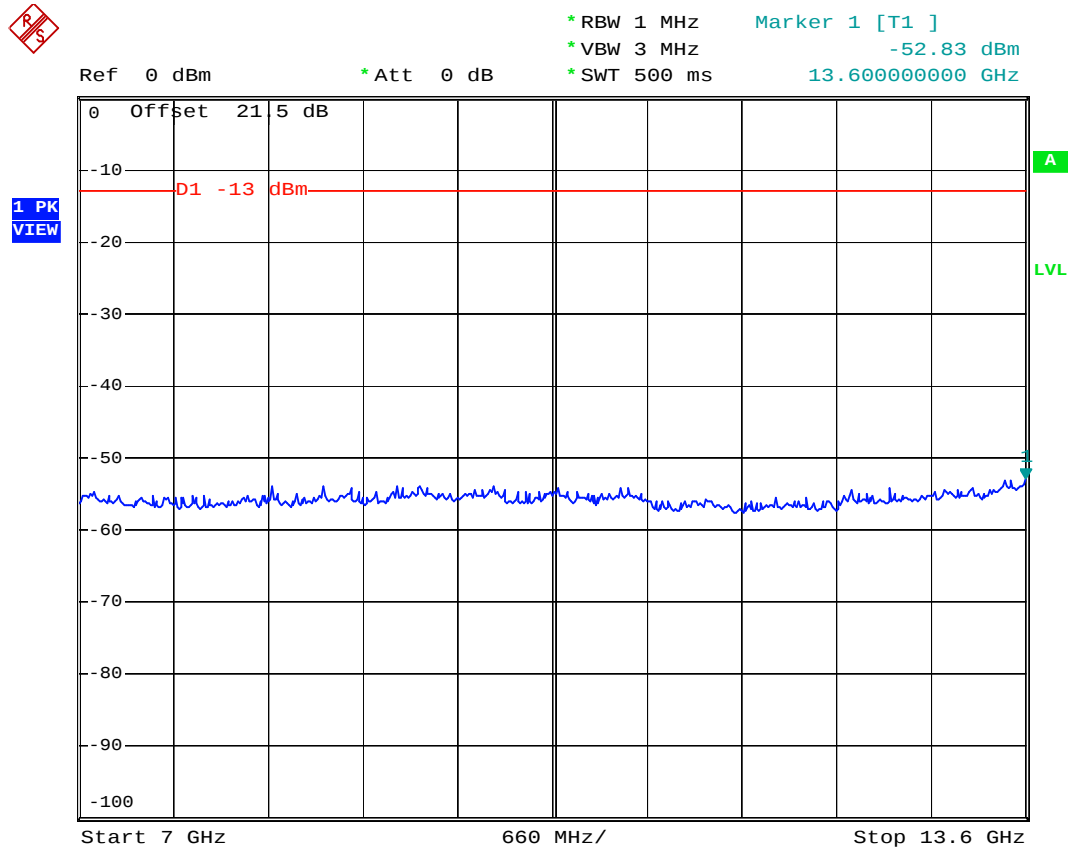
- Test Mode : CDMA2000 PCS 1900 CH600 for 1xRTT
- Frequency Range : 3G-7G



Date: 9.JAN.2007 20:46:29



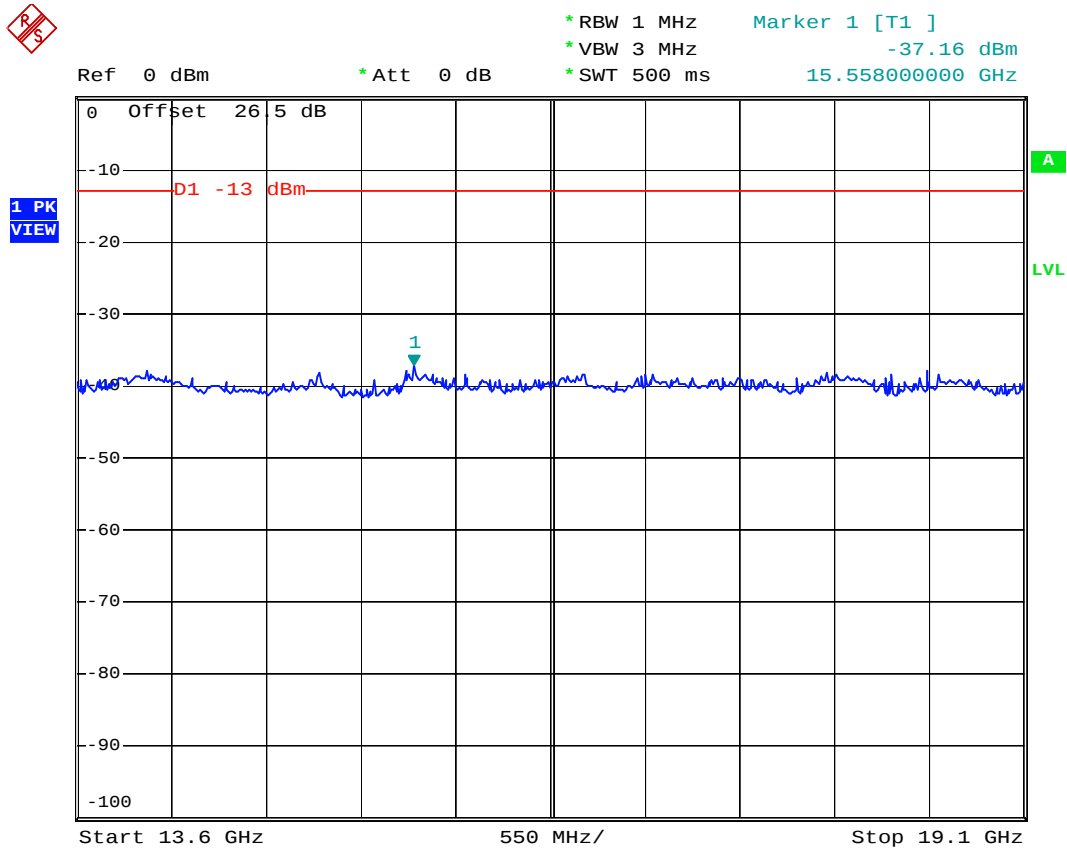
- Test Mode : CDMA2000 PCS 1900 CH600 for 1xRTT
- Frequency Range : 7G-13.6G



Date: 9.JAN.2007 20:47:28



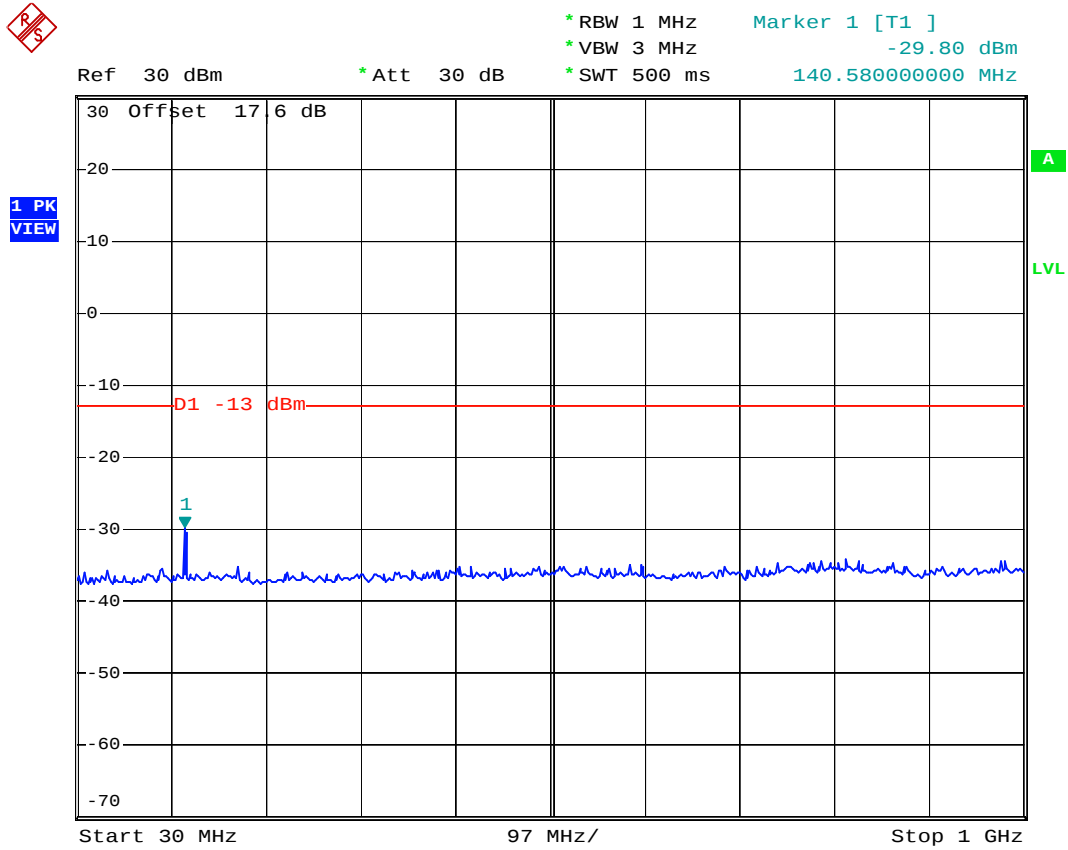
- Test Mode : CDMA2000 PCS 1900 CH600 for 1xRTT
- Frequency Range : 13.6G-19.1G



Date: 9.JAN.2007 20:48:16



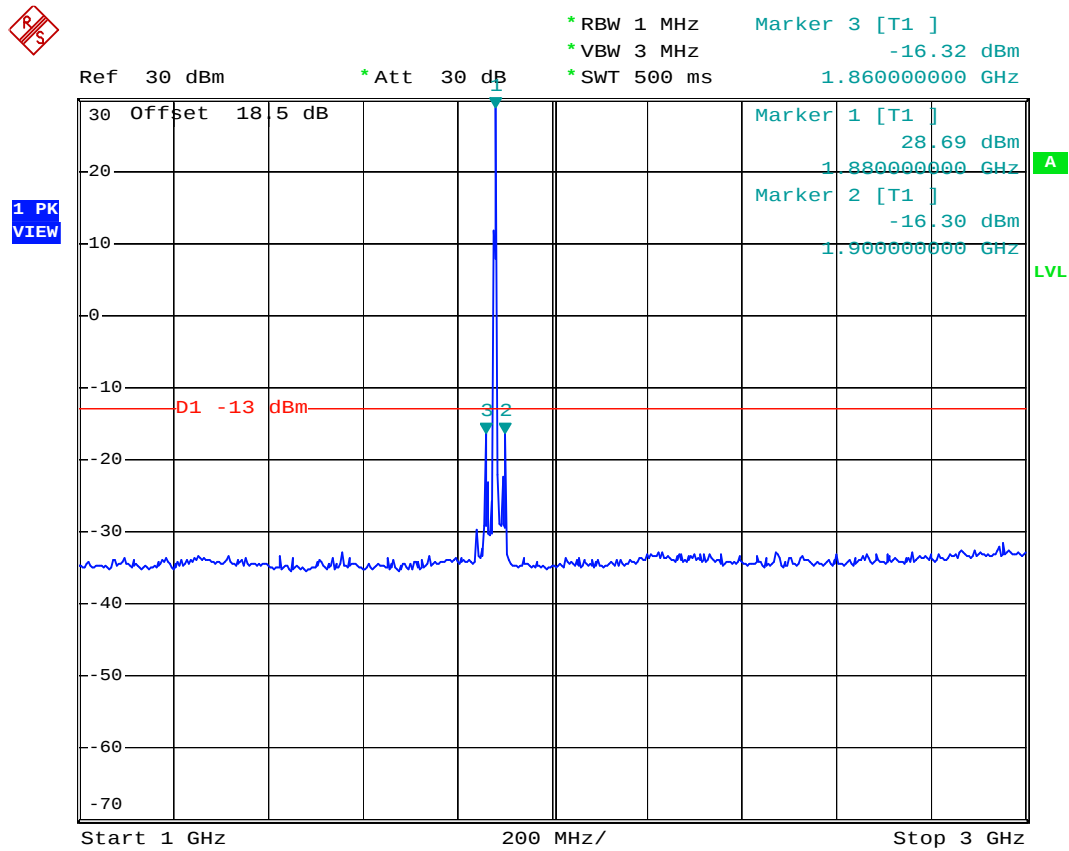
- Mode 4
- Test Mode : CDMA2000 PCS 1900 CH600 for 1xEV-DO
- Frequency Range : 30M-1G



Date: 10.JAN.2007 19:03:17



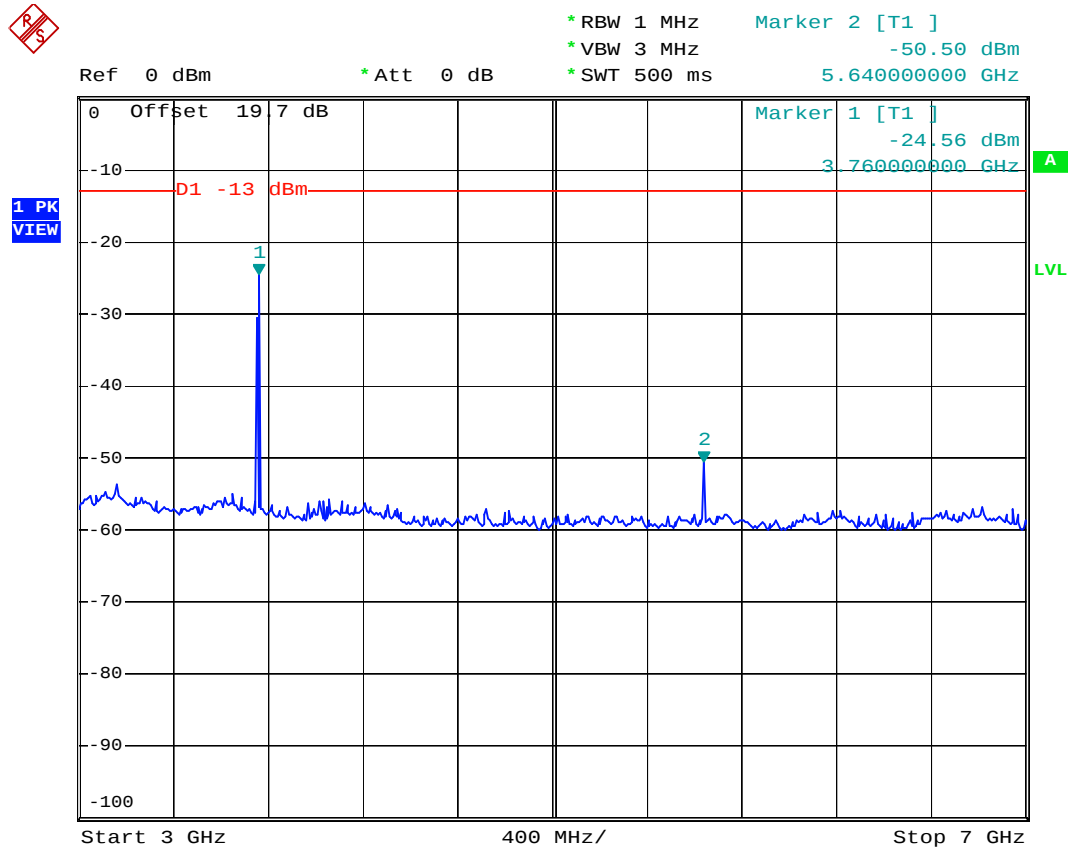
- Test Mode : CDMA2000 PCS 1900 CH600 for 1xEV-DO
- Frequency Range : 1G-3G



Date: 10.JAN.2007 19:01:58



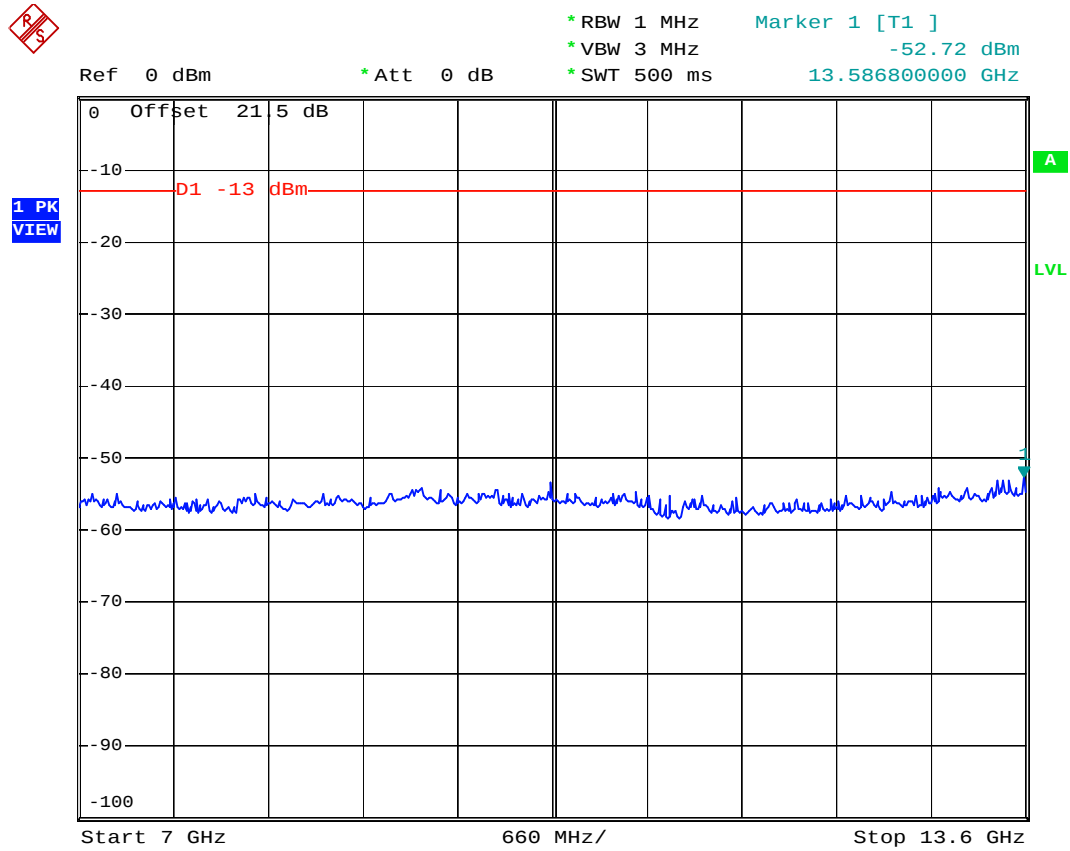
- Test Mode : CDMA2000 PCS 1900 CH600 for 1xEV-DO
- Frequency Range : 3G-7G



Date: 10.JAN.2007 19:04:31



- Test Mode : CDMA2000 PCS 1900 CH600 for 1xEV-DO
- Frequency Range : 7G-13.6G



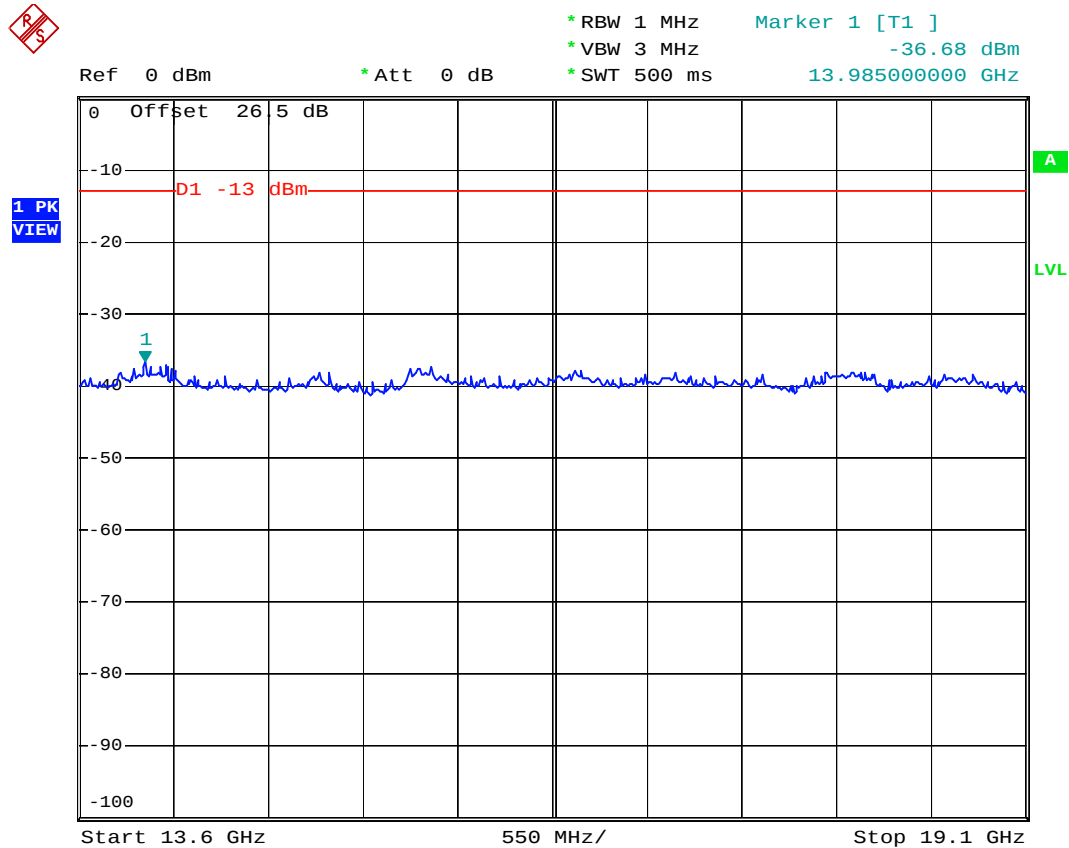
Date: 10.JAN.2007 19:05:06



## FCC/IC TEST REPORT

Report No. : FG711111

- Test Mode : CDMA2000 PCS 1900 CH600 for 1xEV-DO
- Frequency Range : 13.6G-19.1G



Date: 10.JAN.2007 19:05:55

## 4.6 Field Strength of Spurious Radiation

Equivalent isotropic radiated Power Measurements by substitution method according to ANSI/TIA/EIA-603-A.

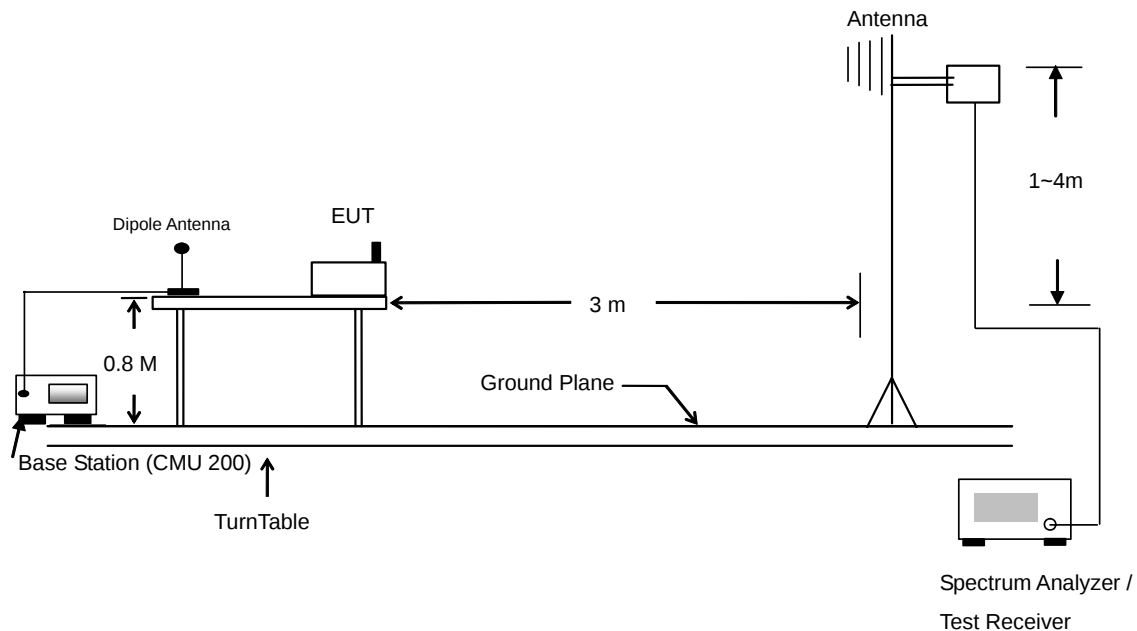
### 4.6.1 Measurement Instruments

As described in chapter 5 of this test report.

### 4.6.2 Test Procedure

1. The EUT was placed on a rotatable wooden table with 0.8 meter about ground.
2. The EUT was set 3 meters from the receiving antenna which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between one meter and four meters to reach the maximum spurious emission for both horizontal and vertical polarizations.
5. Taking the record of maximum spurious emission.
6. A Horn antenna was substituted in place of the EUT and was driven by a signal generator.
7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
8. Taking the record of output power at antenna port.
9. Repeat step 7 to step 8 for another polarization.
10. Emission level (dBm) = output power + substitution Gain.

### 4.6.3 Test Setup Layout



**4.6.4 Test Result**

- Test Mode : Mode 1

| <b>CDMA2000 Cellular 850 1xRTT FCH_RC1 Radiated Spurious ERP</b> |                |             |               |                 |           |             |             |
|------------------------------------------------------------------|----------------|-------------|---------------|-----------------|-----------|-------------|-------------|
| H Polarization                                                   |                |             |               | V Polarization  |           |             |             |
| Frequency (MHz)                                                  | ERP (dBm)      | Limit (dBm) | Margin (dB)   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) |
| 30.000                                                           | -65.690        | -13         | -52.69        | 83.730          | -56.840   | -13         | -43.84      |
| 84.540                                                           | -57.490        | -13         | -44.49        | 120.180         | -63.800   | -13         | -50.80      |
| 118.830                                                          | -67.810        | -13         | -54.81        | 160.680         | -60.540   | -13         | -47.54      |
| 322.400                                                          | -69.960        | -13         | -56.96        | 680.800         | -65.410   | -13         | -52.41      |
| <b>1674.000</b>                                                  | <b>-29.880</b> | <b>-13</b>  | <b>-16.88</b> | 1674.000        | -32.550   | -13         | -19.55      |
| 2508.000                                                         | -54.370        | -13         | -41.37        | 2508.000        | -56.500   | -13         | -43.50      |
| 3344.000                                                         | -55.730        | -13         | -42.73        | 3344.000        | -54.570   | -13         | -41.57      |

- Test Mode : Mode 2

| <b>CDMA2000 Cellular 850 1xEV-DO 38.4Kbps Radiated Spurious ERP</b> |                |             |               |                 |           |             |             |
|---------------------------------------------------------------------|----------------|-------------|---------------|-----------------|-----------|-------------|-------------|
| H Polarization                                                      |                |             |               | V Polarization  |           |             |             |
| Frequency (MHz)                                                     | ERP (dBm)      | Limit (dBm) | Margin (dB)   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) |
| 30.000                                                              | -65.340        | -13         | -52.34        | 56.190          | -63.030   | -13         | -50.03      |
| 116.940                                                             | -69.550        | -13         | -56.55        | 152.040         | -65.760   | -13         | -52.76      |
| 214.680                                                             | -73.650        | -13         | -60.65        | 176.880         | -65.380   | -13         | -52.38      |
| 327.300                                                             | -68.890        | -13         | -55.89        | 315.400         | -67.060   | -13         | -54.06      |
| <b>1674.000</b>                                                     | <b>-25.340</b> | <b>-13</b>  | <b>-12.34</b> | 1674.000        | -34.680   | -13         | -21.68      |
| 2508.000                                                            | -45.580        | -13         | -32.58        | 2508.000        | -57.130   | -13         | -44.13      |
| 3344.000                                                            | -50.840        | -13         | -37.84        | 3344.000        | -52.160   | -13         | -39.16      |

- Test Mode : Mode 3

| <b>CDMA2000 PCS 1900 1xRTT FCH_RC3 Radiated Spurious EIRP</b> |            |             |             |                 |                |             |               |
|---------------------------------------------------------------|------------|-------------|-------------|-----------------|----------------|-------------|---------------|
| H Polarization                                                |            |             |             | V Polarization  |                |             |               |
| Frequency (MHz)                                               | EIRP (dBm) | Limit (dBm) | Margin (dB) | Frequency (MHz) | EIRP (dBm)     | Limit (dBm) | Margin (dB)   |
| 30.000                                                        | -63.900    | -13         | -50.90      | 120.990         | -63.790        | -13         | -50.79        |
| 117.480                                                       | -65.610    | -13         | -52.61      | 138.540         | -61.170        | -13         | -48.17        |
| 257.340                                                       | -68.790    | -13         | -55.79      | 153.930         | -60.550        | -13         | -47.55        |
| 323.800                                                       | -65.850    | -13         | -52.85      | 868.400         | -61.840        | -13         | -48.84        |
| 834.800                                                       | -64.290    | -13         | -51.29      | 945.400         | -62.160        | -13         | -49.16        |
| 959.400                                                       | -64.110    | -13         | -51.11      | 995.800         | -61.250        | -13         | -48.25        |
| 3758.000                                                      | -48.390    | -13         | -35.39      | <b>3758.000</b> | <b>-46.210</b> | <b>-13</b>  | <b>-33.21</b> |

- Test Mode : Mode 4

| <b>CDMA2000 PCS 1900 1xEV-DO 38.4Kbps Radiated Spurious EIRP</b> |            |             |             |                 |                |             |               |
|------------------------------------------------------------------|------------|-------------|-------------|-----------------|----------------|-------------|---------------|
| H Polarization                                                   |            |             |             | V Polarization  |                |             |               |
| Frequency (MHz)                                                  | EIRP (dBm) | Limit (dBm) | Margin (dB) | Frequency (MHz) | EIRP (dBm)     | Limit (dBm) | Margin (dB)   |
| 69.690                                                           | -68.640    | -13         | -55.64      | 69.690          | -62.210        | -13         | -49.21        |
| 116.940                                                          | -63.680    | -13         | -50.68      | 116.130         | -63.010        | -13         | -50.01        |
| 253.290                                                          | -70.470    | -13         | -57.47      | 157.980         | -59.850        | -13         | -46.85        |
| 323.800                                                          | -69.620    | -13         | -56.62      | 444.900         | -56.220        | -13         | -43.22        |
| 964.300                                                          | -64.190    | -13         | -51.19      | <b>3758.000</b> | <b>-46.870</b> | <b>-13</b>  | <b>-33.87</b> |
| 988.800                                                          | -64.050    | -13         | -51.05      | 4888.000        | -51.590        | -13         | -38.59        |
| 3758.000                                                         | -47.000    | -13         | -34.00      | 69.690          | -62.210        | -13         | -49.21        |

- Test Mode : Mode 5

| <b>CDMA2000 Cellular 850 1xEV-DO 38.4Kbps with Bluetooth Co-location<br/>Radiated Spurious ERP</b> |                |                |                |                    |           |                |                |
|----------------------------------------------------------------------------------------------------|----------------|----------------|----------------|--------------------|-----------|----------------|----------------|
| H Polarization                                                                                     |                |                |                | V Polarization     |           |                |                |
| Frequency<br>(MHz)                                                                                 | ERP (dBm)      | Limit<br>(dBm) | Margin<br>(dB) | Frequency<br>(MHz) | ERP (dBm) | Limit<br>(dBm) | Margin<br>(dB) |
| 62.940                                                                                             | -62.850        | -13            | -49.85         | 39.990             | -65.300   | -13            | -52.30         |
| 87.240                                                                                             | -71.870        | -13            | -58.87         | 66.180             | -57.160   | -13            | -44.16         |
| 104.790                                                                                            | -74.360        | -13            | -61.36         | 184.980            | -67.290   | -13            | -54.29         |
| 974.800                                                                                            | -65.600        | -13            | -52.60         | 952.400            | -63.630   | -13            | -50.63         |
| <b>1674.000</b>                                                                                    | <b>-27.120</b> | <b>-13</b>     | <b>-14.12</b>  | 1674.000           | -37.100   | -13            | -24.10         |
| 3348.000                                                                                           | -54.410        | -13            | -41.41         | 3344.000           | -54.030   | -13            | -41.03         |
| 4828.000                                                                                           | -52.180        | -13            | -39.18         |                    |           |                |                |

- Test Mode : Mode 6

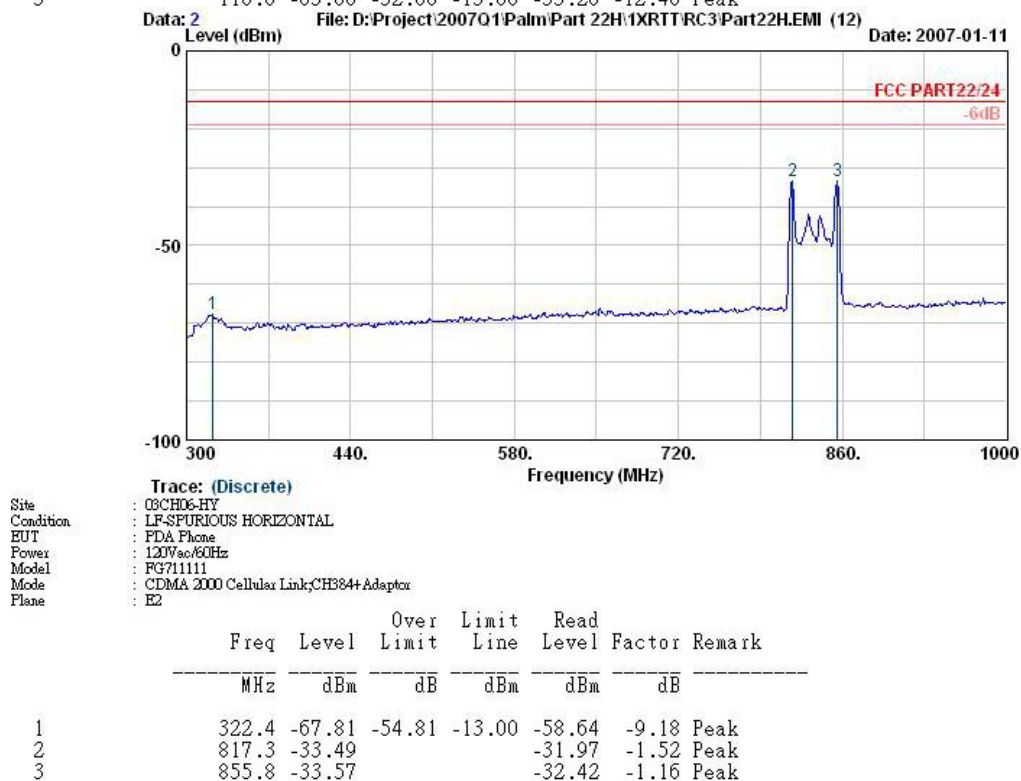
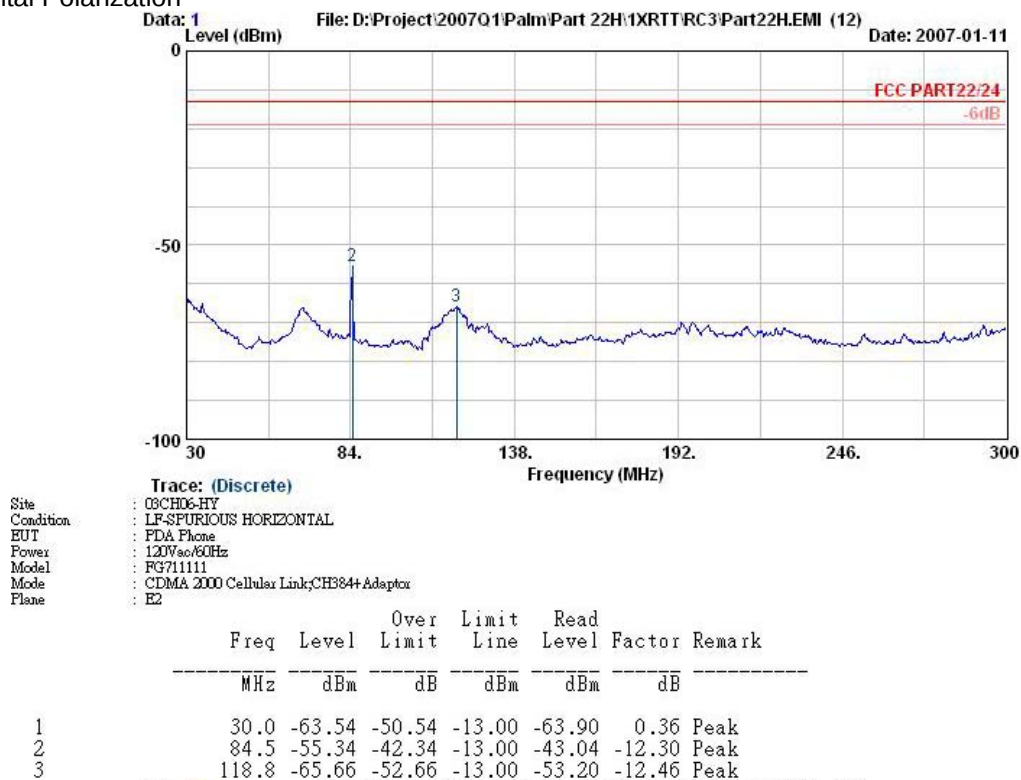
| <b>CDMA2000 PCS 1900 1xRTT FCH_RC3 with Bluetooth Co-location<br/>Radiated Spurious EIRP</b> |                |                |                |                    |            |                |                |
|----------------------------------------------------------------------------------------------|----------------|----------------|----------------|--------------------|------------|----------------|----------------|
| H Polarization                                                                               |                |                |                | V Polarization     |            |                |                |
| Frequency<br>(MHz)                                                                           | EIRP (dBm)     | Limit<br>(dBm) | Margin<br>(dB) | Frequency<br>(MHz) | EIRP (dBm) | Limit<br>(dBm) | Margin<br>(dB) |
| 67.530                                                                                       | -58.460        | -13            | -45.46         | 65.640             | -52.760    | -13            | -39.76         |
| 84.540                                                                                       | -54.270        | -13            | -41.27         | 91.290             | -65.730    | -13            | -52.73         |
| 116.130                                                                                      | -70.020        | -13            | -57.02         | 184.440            | -64.380    | -13            | -51.38         |
| 826.400                                                                                      | -64.630        | -13            | -51.63         | 822.900            | -62.020    | -13            | -49.02         |
| 945.400                                                                                      | -64.260        | -13            | -51.26         | 885.900            | -61.590    | -13            | -48.59         |
| 990.900                                                                                      | -63.660        | -13            | -50.66         | 953.800            | -61.490    | -13            | -48.49         |
| <b>3758.000</b>                                                                              | <b>-46.640</b> | <b>-13</b>     | <b>-33.64</b>  |                    |            |                |                |
| 4834.000                                                                                     | -49.770        | -13            | -36.77         |                    |            |                |                |
| 4858.000                                                                                     | -49.820        | -13            | -36.82         |                    |            |                |                |
|                                                                                              |                |                |                |                    |            |                |                |



## 4.6.5 Test Data

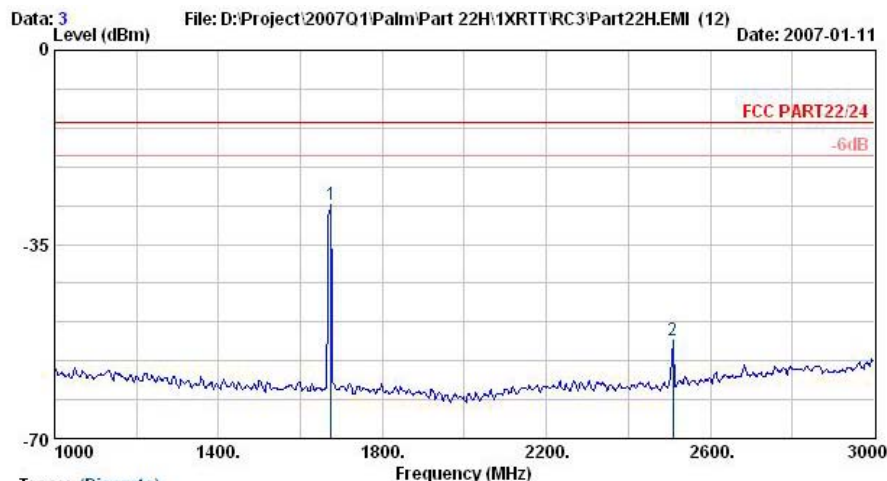
## 4.6.5.1 Mode 1

## Horizontal Polarization



## Remark:

1. #2: MS Signal
2. #3: MS Signal



Trace: (Discrete)

Site : 08CH06-HY

Condition : HF-SPURIOUS HORIZONTAL

EUT : PDA Phone

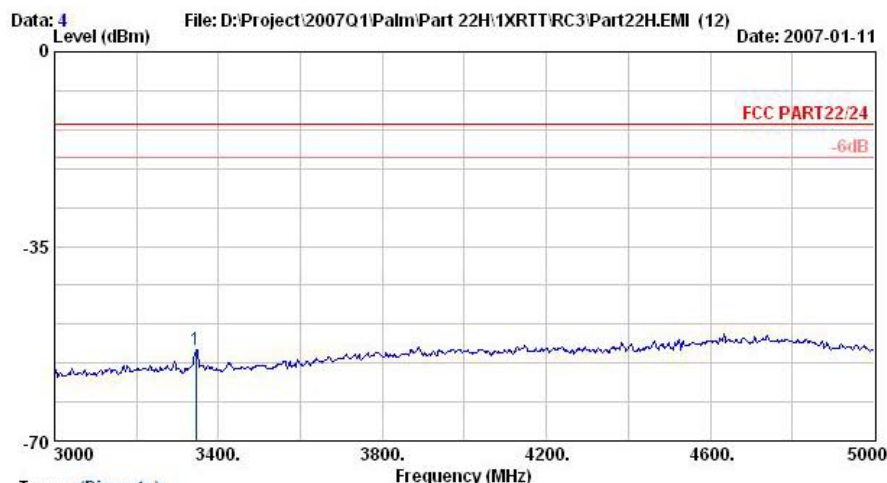
Power : 120Vac/60Hz

Model : FG711111

Mode : CDMA 2000 Cellular Link;CH384+Adaptor

Plane : E2

|     | Freq   | Level  | Over   | Limit  | Read   |        |        |
|-----|--------|--------|--------|--------|--------|--------|--------|
|     | MHz    | dBm    | Limit  | Line   | Level  | Factor | Remark |
|     |        | dBm    | dB     | dBm    | dBm    | dB     |        |
| 1 @ | 1674.0 | -27.73 | -14.73 | -13.00 | -27.95 | 0.22   | Peak   |
| 2   | 2508.0 | -52.22 | -39.22 | -13.00 | -53.41 | 1.20   | Peak   |



Trace: (Discrete)

Site : 08CH06-HY

Condition : HF-SPURIOUS HORIZONTAL

EUT : PDA Phone

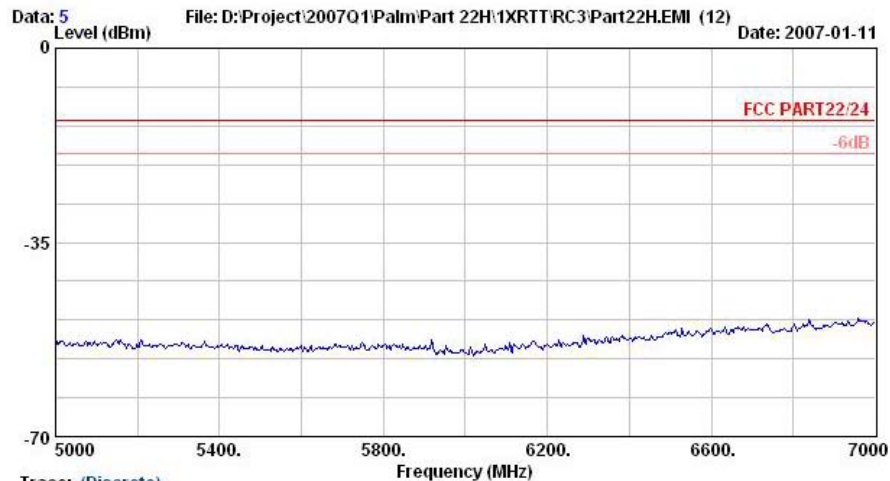
Power : 120Vac/60Hz

Model : FG711111

Mode : CDMA 2000 Cellular Link;CH384+Adaptor

Plane : E2

|   | Freq   | Level  | Over   | Limit  | Read   |        |        |
|---|--------|--------|--------|--------|--------|--------|--------|
|   | MHz    | dBm    | Limit  | Line   | Level  | Factor | Remark |
|   |        | dBm    | dB     | dBm    | dBm    | dB     |        |
| 1 | 3344.0 | -53.58 | -40.58 | -13.00 | -58.99 | 5.41   | Peak   |



Trace: (Discrete)

Site : 08CH06-HY

Condition : HF-SPURIOUS HORIZONTAL

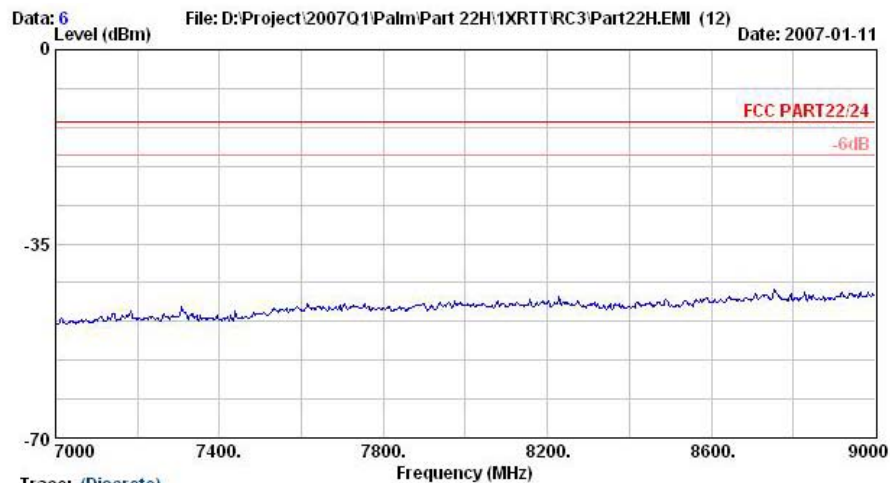
EUT : PDA Phone

Power : 120V<sub>ac</sub>/60Hz

Model : FG711111

Mode : CDMA 2000 Cellular Link;CH384+Adaptor

Plane : E2



Trace: (Discrete)

Site : 08CH06-HY

Condition : HF-SPURIOUS HORIZONTAL

EUT : PDA Phone

Power : 120V<sub>ac</sub>/60Hz

Model : FG711111

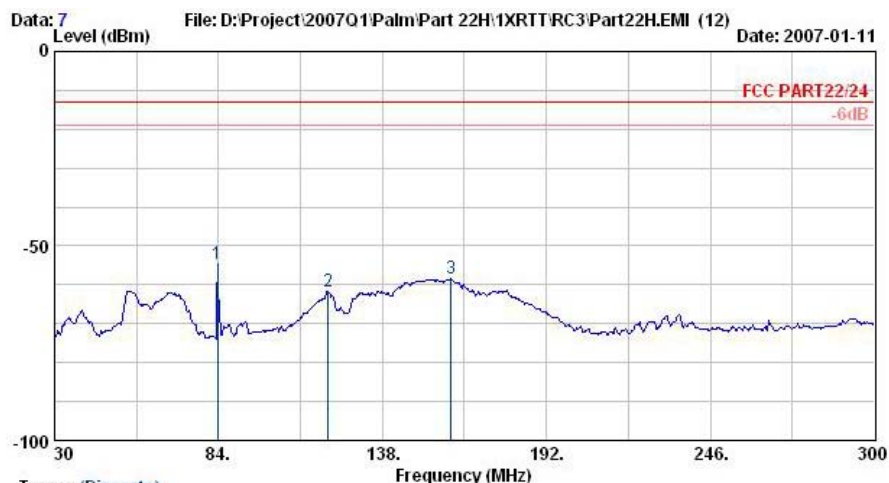
Mode : CDMA 2000 Cellular Link;CH384+Adaptor

Plane : E2

Remark: There's no more obvious spurious emission except the listings above.



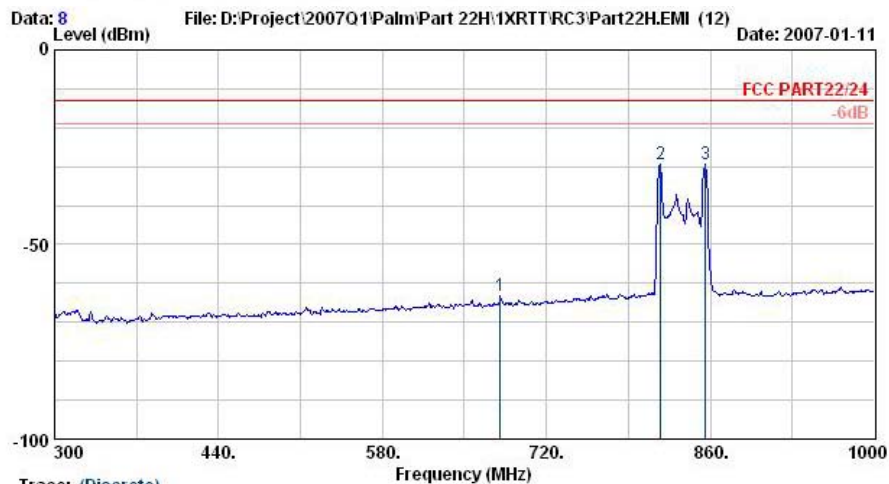
## Vertical Polarization



Trace: (Discrete)

Site : 03CH06-HY  
Condition : LF-SPURIOUS VERTICAL  
EUT : PDA Phone  
Power : 120Vac/60Hz  
Model : FG711111  
Mode : CDMA 2000 Cellular Link;CH384+Adaptor  
Plane : E2

|   | Freq  | Level  | Over   | Limit  | Read   |               |
|---|-------|--------|--------|--------|--------|---------------|
|   | MHz   | dBm    | Limit  | Line   | Level  | Factor Remark |
|   |       | dBm    | dB     | dBm    | dBm    | dB            |
| 1 | 83.7  | -54.69 | -41.69 | -13.00 | -44.63 | -10.07 Peak   |
| 2 | 120.2 | -61.65 | -48.65 | -13.00 | -53.78 | -7.87 Peak    |
| 3 | 160.7 | -58.39 | -45.39 | -13.00 | -50.15 | -8.24 Peak    |



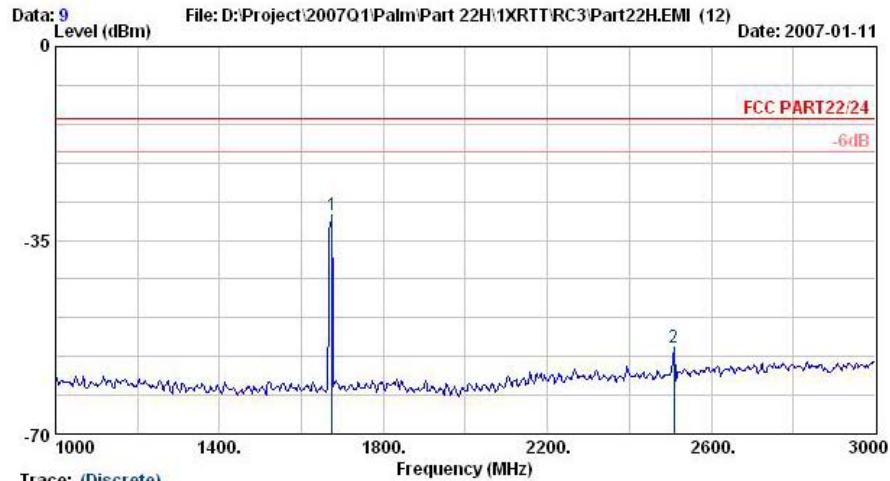
Trace: (Discrete)

Site : 03CH06-HY  
Condition : LF-SPURIOUS VERTICAL  
EUT : PDA Phone  
Power : 120Vac/60Hz  
Model : FG711111  
Mode : CDMA 2000 Cellular Link;CH384+Adaptor  
Plane : E2

|   | Freq  | Level  | Over   | Limit  | Read   |               |
|---|-------|--------|--------|--------|--------|---------------|
|   | MHz   | dBm    | Limit  | Line   | Level  | Factor Remark |
|   |       | dBm    | dB     | dBm    | dBm    | dB            |
| 1 | 680.8 | -63.26 | -50.26 | -13.00 | -62.54 | -0.72 Peak    |
| 2 | 817.3 | -29.23 |        |        | -30.44 | 1.21 Peak     |
| 3 | 855.8 | -29.38 |        |        | -30.89 | 1.51 Peak     |

## Remark:

1. #2: MS Signal
2. #3: MS Signal



Trace: (Discrete)

Site : 08CH06-HY

Condition : HF-SFURIOUS VERTICAL

EUT : PDA Phone

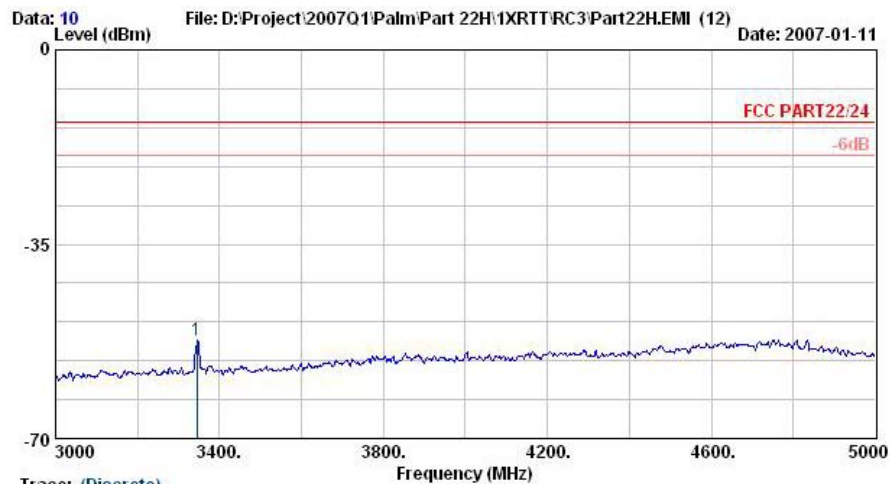
Power : 120V<sub>ac</sub>/60Hz

Model : FG711111

Mode : CDMA 2000 Cellular Link;CH384+Adaptor

Plane : E2

|   | Freq   | Level  | Over   | Limit  | Read   |        |        |
|---|--------|--------|--------|--------|--------|--------|--------|
|   | MHz    | dBm    | Limit  | Line   | Level  | Factor | Remark |
|   |        |        | dB     | dBm    | dBm    | dB     |        |
| 1 | 1674.0 | -30.40 | -17.40 | -13.00 | -29.92 | -0.48  | Peak   |
| 2 | 2508.0 | -54.35 | -41.35 | -13.00 | -56.62 | 2.27   | Peak   |



Trace: (Discrete)

Site : 08CH06-HY

Condition : HF-SFURIOUS VERTICAL

EUT : PDA Phone

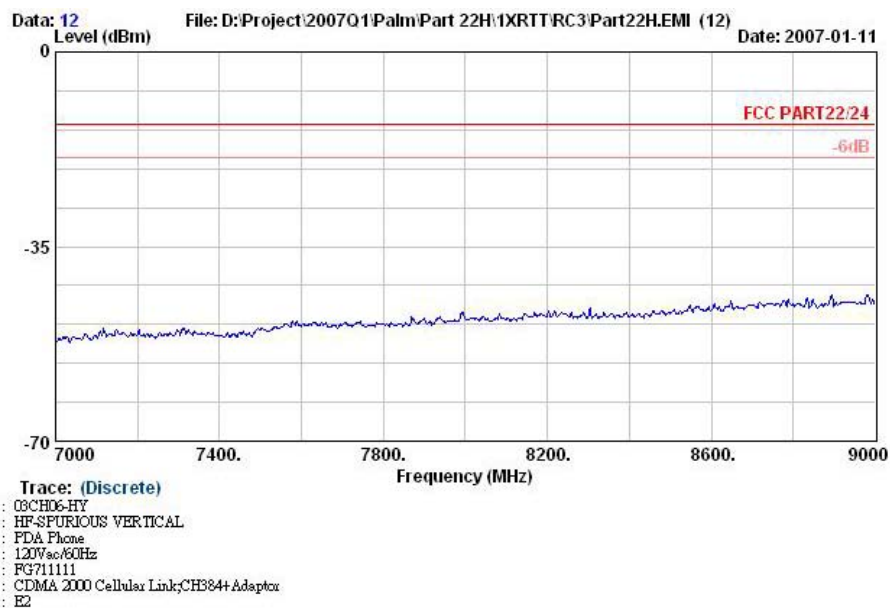
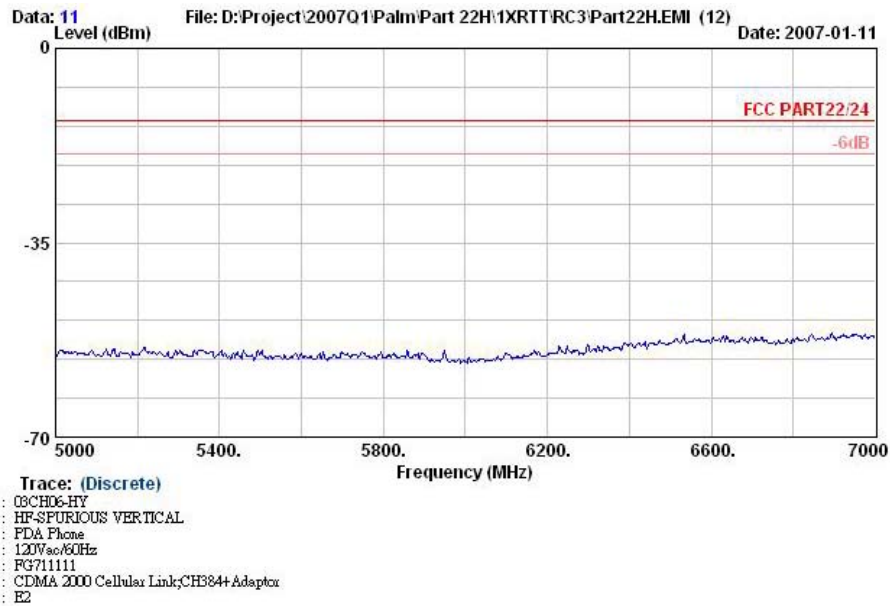
Power : 120V<sub>ac</sub>/60Hz

Model : FG711111

Mode : CDMA 2000 Cellular Link;CH384+Adaptor

Plane : E2

|   | Freq   | Level  | Over   | Limit  | Read   |        |        |
|---|--------|--------|--------|--------|--------|--------|--------|
|   | MHz    | dBm    | Limit  | Line   | Level  | Factor | Remark |
|   |        |        | dB     | dBm    | dBm    | dB     |        |
| 1 | 3344.0 | -52.42 | -39.42 | -13.00 | -56.89 | 4.47   | Peak   |

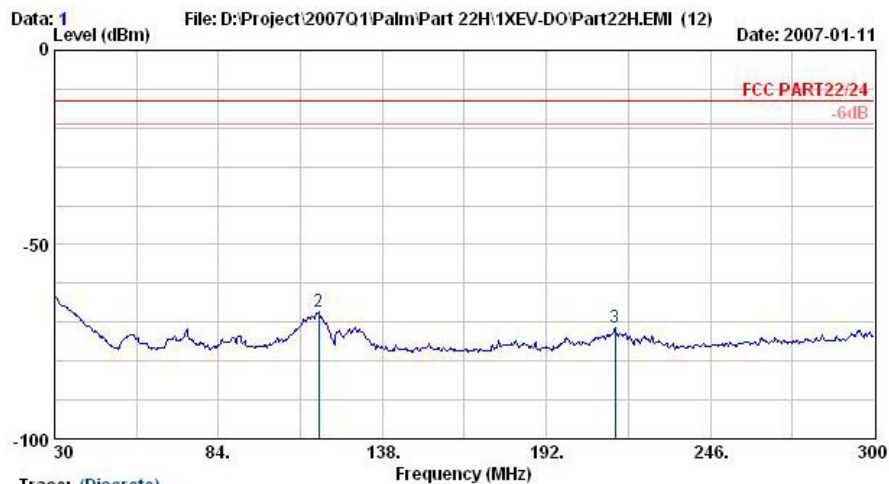


Remark : There is no more obvious emission except the listings above.



## 4.6.5.2 Mode 2

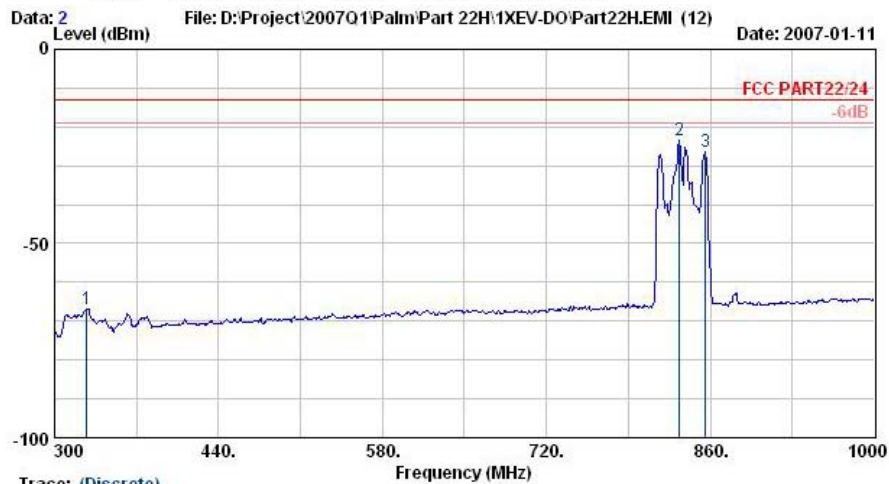
## Horizontal Polarization



Trace: (Discrete)

Site : 03CH06-HY  
Condition : LF-SPURIOUS HORIZONTAL  
EUT : PDA Phone  
Power : 120Vac/60Hz  
Model : FG711111  
Mode : CDMA 2000 Cellular Link;CH384+Adaptor  
Plane : E2

|     | Freq  | Level  | Over   | Limit  | Read   |        |        |
|-----|-------|--------|--------|--------|--------|--------|--------|
|     | MHz   | dBm    | Limit  | Line   | Level  | Factor | Remark |
|     |       | dBm    | dB     | dBm    | dBm    | dB     |        |
| 1 @ | 30.0  | -63.19 | -50.19 | -13.00 | -63.55 | 0.36   | Peak   |
| 2   | 116.9 | -67.40 | -54.40 | -13.00 | -54.96 | -12.44 | Peak   |
| 3   | 214.7 | -71.50 | -58.50 | -13.00 | -58.61 | -12.89 | Peak   |



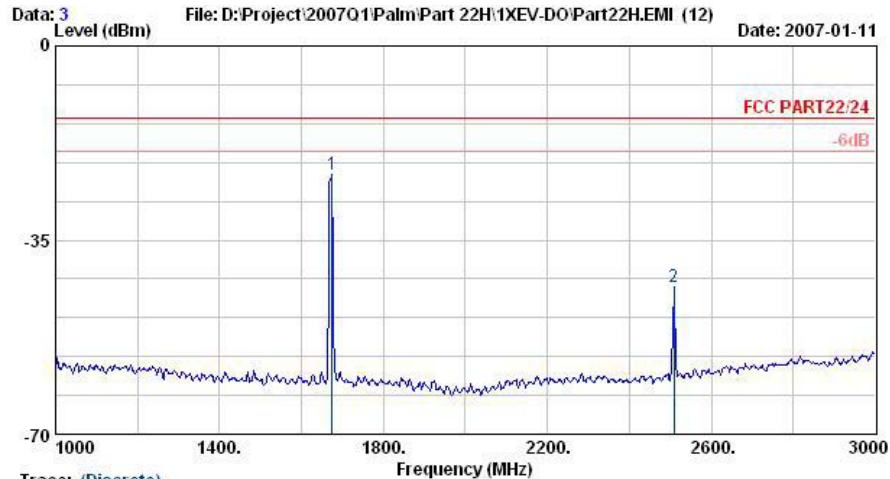
Trace: (Discrete)

Site : 03CH06-HY  
Condition : LF-SPURIOUS HORIZONTAL  
EUT : PDA Phone  
Power : 120Vac/60Hz  
Model : FG711111  
Mode : CDMA 2000 Cellular Link;CH384+Adaptor  
Plane : E2

|     | Freq  | Level  | Over   | Limit  | Read   |        |        |
|-----|-------|--------|--------|--------|--------|--------|--------|
|     | MHz   | dBm    | Limit  | Line   | Level  | Factor | Remark |
|     |       | dBm    | dB     | dBm    | dBm    | dB     |        |
| 1   | 327.3 | -66.74 | -53.74 | -13.00 | -57.73 | -9.01  | Peak   |
| 2 @ | 833.4 | -23.24 |        |        | -21.86 | -1.37  | Peak   |
| 3 @ | 855.8 | -26.24 |        |        | -25.09 | -1.16  | Peak   |

## Remark:

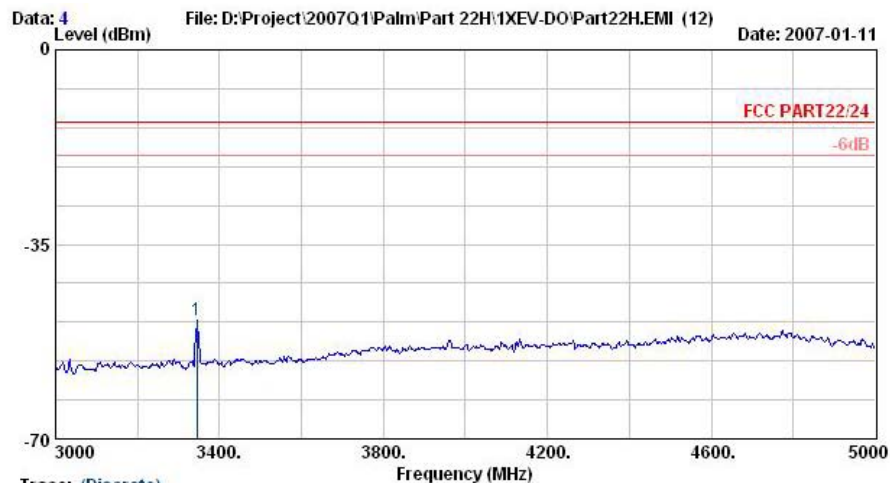
1. #2: MS Signal
2. #3: MS Signal



Trace: (Discrete)

Site : 03CH06-HY  
Condition : HF-SPURIOUS HORIZONTAL  
EUT : PDA Phone  
Power : 120Vac/50Hz  
Model : FG711111  
Mode : CDMA 2000 Cellular Link;CH384+Adaptor  
Plane : E2

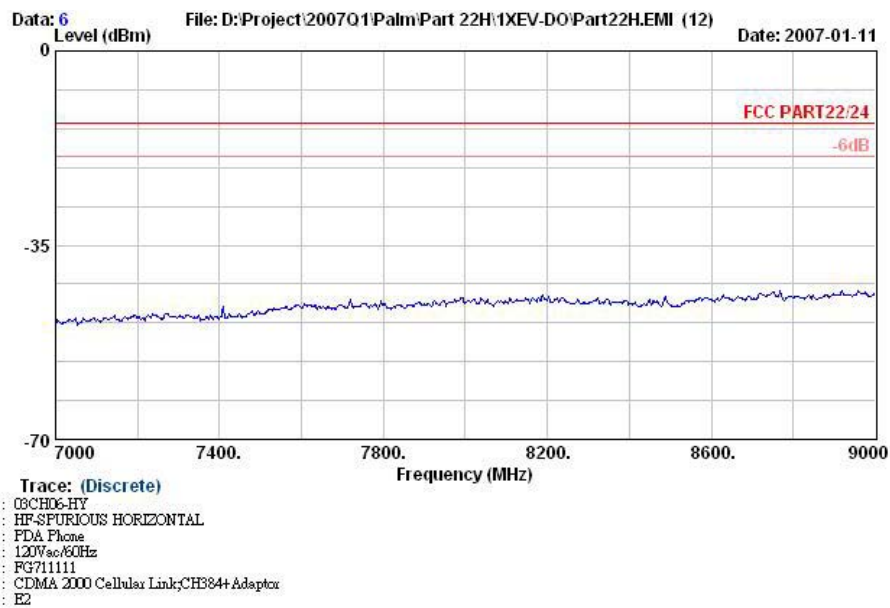
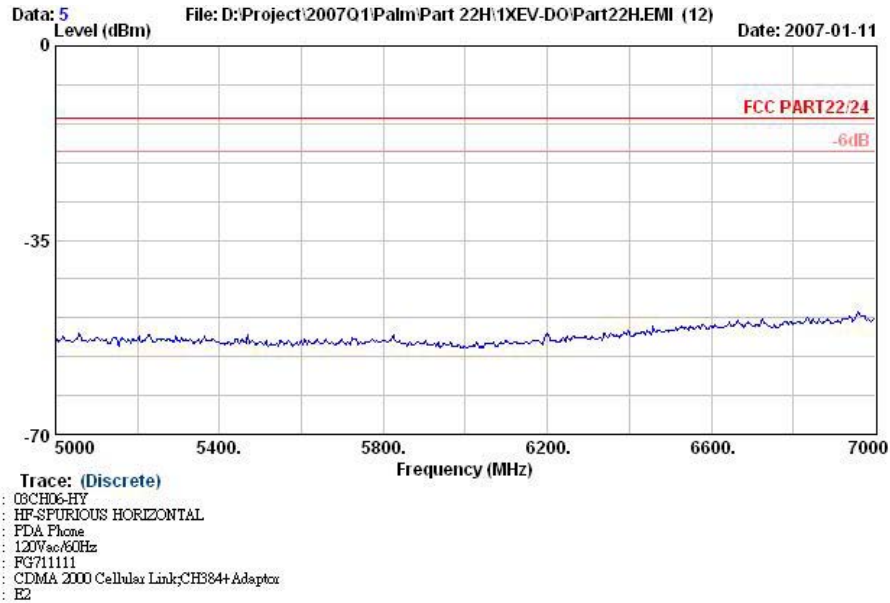
|     | Freq   | Level  | Over   | Limit  | Read   |        |        |
|-----|--------|--------|--------|--------|--------|--------|--------|
|     | MHz    | dBm    | Limit  | Line   | Level  | Factor | Remark |
|     |        | dBm    | dB     | dBm    | dBm    | dB     |        |
| 1 @ | 1674.0 | -23.19 | -10.19 | -13.00 | -23.41 | 0.22   | Peak   |
| 2 @ | 2508.0 | -43.43 | -30.43 | -13.00 | -44.63 | 1.20   | Peak   |



Trace: (Discrete)

Site : 03CH06-HY  
Condition : HF-SPURIOUS HORIZONTAL  
EUT : PDA Phone  
Power : 120Vac/50Hz  
Model : FG711111  
Mode : CDMA 2000 Cellular Link;CH384+Adaptor  
Plane : E2

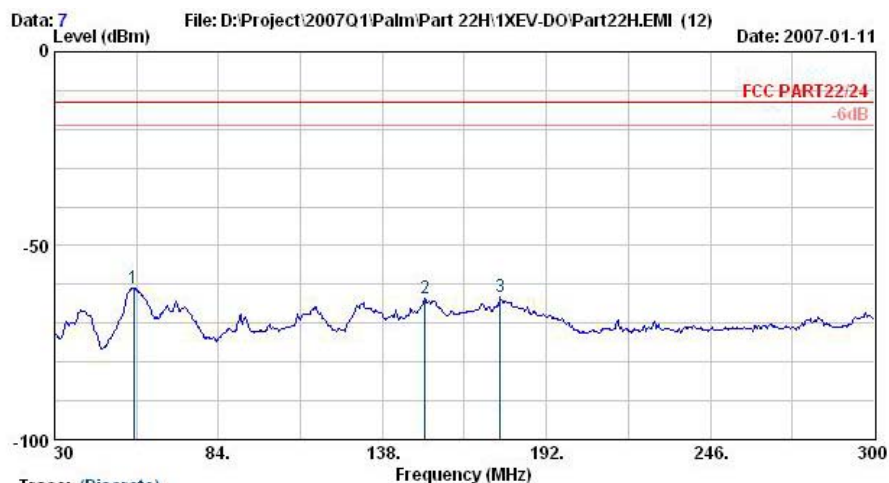
|     | Freq   | Level  | Over   | Limit  | Read   |        |        |
|-----|--------|--------|--------|--------|--------|--------|--------|
|     | MHz    | dBm    | Limit  | Line   | Level  | Factor | Remark |
|     |        | dBm    | dB     | dBm    | dBm    | dB     |        |
| 1 @ | 3344.0 | -48.69 | -35.69 | -13.00 | -54.09 | 5.41   | Peak   |



Remark: There's no more obvious spurious emission except the listings above.



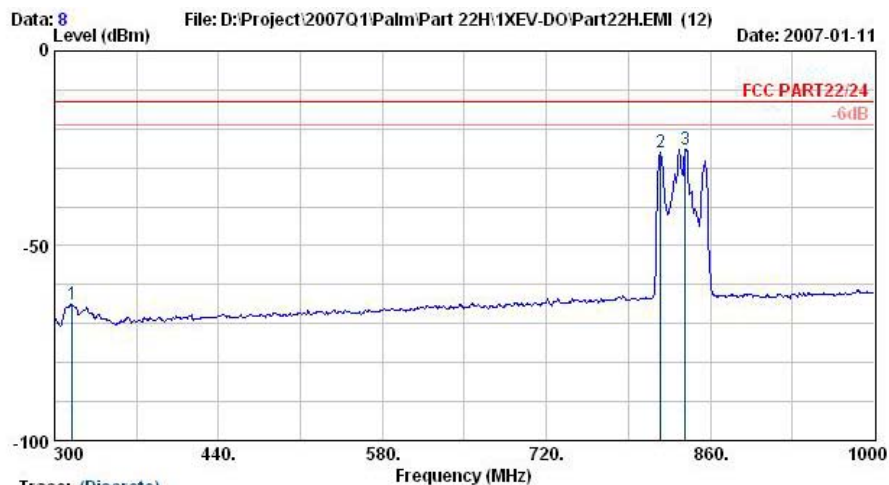
## Vertical Polarization



Trace: (Discrete)

Site : 03CH06-HY  
Condition : LF-SPURIOUS VERTICAL  
EUT : PDA Phone  
Power : 120Vac/60Hz  
Model : FG711111  
Mode : CDMA 2000 Cellular Link;CH384+Adaptor  
Plane : E2

|     | Freq  | Level  | Over   | Limit  | Read   |        |        |
|-----|-------|--------|--------|--------|--------|--------|--------|
|     | MHz   | dBm    | Limit  | Line   | Level  | Factor | Remark |
|     |       |        | dB     | dBm    | dBm    | dB     |        |
| 1 @ | 56.2  | -60.88 | -47.88 | -13.00 | -46.90 | -13.98 | Peak   |
| 2   | 152.0 | -63.61 | -50.61 | -13.00 | -55.45 | -8.16  | Peak   |
| 3   | 176.9 | -63.23 | -50.23 | -13.00 | -54.84 | -8.38  | Peak   |



Trace: (Discrete)

Site : 03CH06-HY  
Condition : LF-SPURIOUS VERTICAL  
EUT : PDA Phone  
Power : 120Vac/60Hz  
Model : FG711111  
Mode : CDMA 2000 Cellular Link;CH384+Adaptor  
Plane : E2

|     | Freq  | Level  | Over   | Limit  | Read   |        |        |
|-----|-------|--------|--------|--------|--------|--------|--------|
|     | MHz   | dBm    | Limit  | Line   | Level  | Factor | Remark |
|     |       |        | dB     | dBm    | dBm    | dB     |        |
| 1   | 315.4 | -64.91 | -51.91 | -13.00 | -58.78 | -6.13  | Peak   |
| 2 @ | 817.3 | -26.21 |        |        | -27.42 | 1.21   | Peak   |
| 3 @ | 838.3 | -25.22 |        |        | -26.59 | 1.37   | Peak   |

## Remark:

- #2: MS Signal
- #3: MS Signal