



## 47 CFR PART 22 SUBPART H & 24 SUBPART E

# TEST REPORT

### CDMA 800MHZ Fixed Wireless Phone

Model Name: L100  
Trade Name: Topp  
Report No.: SH10050029R01  
FCC ID: YJ2L100

prepared for

**Topp Multitasking Group, C.A**  
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prepared by

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LAB CODE 20081223-00

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## 1. Test Result Certification

Equipment under Test: CDMA 800MHZ Fixed Wireless Phone

Trade Name: Topp

Model Name: L100

FCC ID: YJ2L100

Applicant: Topp Multitasking Group, C.A

Manufacturer: Asiatelco Technologies Co.

Test Standards: 47 CFR Part 2

47 CFR Part 22 Subpart H

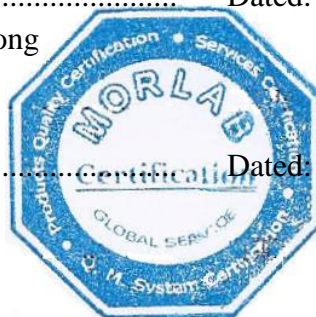
Test Result: PASS

### \* We Hereby Certify That:

The equipment under test was tested by Shenzhen Morlab Communications Technology Co., Ltd. The test data, data evaluation, test procedures and equipment configurations shown in this report were made in accordance with the requirement of related FCC rules.

The test results of this report only apply for the tested sample equipment identified above. The test report shall be invalid without all the signatures of the test engineer, the reviewer and the approver.

Tested by:		Dated:	2010-6-28
	Huang yunlong		
Reviewed by:		Dated:	2010-6-28
	Zhang Jun		
Approved by:		Dated:	2010-6-28
	Wei Bei		



## 2. General Information

### 2.1 Equipment under Test (EUT) Description

EUT Type ..... : CDMA 800MHZ Fixed Wireless Phone  
Brand Name ..... : Topp  
Model Name ..... : L100  
Frequency Range ..... : CDMA2000 Cellular:  
Tx: 824 MHz ~ 849 MHz; Rx: 869 MHz ~ 894 MHz  
Max ERP/EIRP Power ..... : CDMA2000 Cellular: for 1x RTT  
Modulation Type ..... : QPSK  
Hardware Version ..... : 328\_HW  
Software Version ..... : 6681\_M\_1.84.74\_2T  
Manufacturer ..... : Asiatelco Technologies Co.

#### NOTE:

1. The EUT is a CDMA2000 1xRTT operating in Cellular 800MHz band .
2. For more detailed features about the EUT, please see user manual.

## 2.2 Test Standards and Results

The objective of the report is to perform tests according to 47 CFR Part 2, Part 22 and Part 24 for FCC ID Certification:

No.	Identity	Document Title
1	47 CFR Part 2 (10-1-05 Edition)	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	47 CFR Part 22 (10-1-05 Edition)	Public Mobile Services
4	ANSI/TIA/EIA-603-C (2004)	Land Mobile FM or PM - Communications Equipment - Measurement and Performance Standards
5	ANSI C63.4-2003	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz

Test detailed items and the results are as below:

No.	Rules	Test Type	Result
1	§2.106 §22.905	Frequencies	PASS
2	§2.1046	Conducted RF Output Power	PASS
3	§2.1049	Occupied Bandwidth	PASS
4	§2.1057 §22.917	Band Edge	PASS
5	§2.1051 §2.1057 §22.917	Conducted Spurious Emission at Antenna Terminal	PASS
6	§22.913	Transmitter Radiated Power (EIPR/ERP)	PASS
7	§2.1053 §2.1057 §22.917	Radiated Spurious Emission	PASS
8	§2.1055 §22.355	Frequency Stability	PASS

## 2.3 Facilities and Accreditations

### 2.3.1 Facilities

Shenzhen Electronic Product Quality Testing Center Morlab Laboratory is a testing organization accredited by China National Accreditation Board for Laboratories (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L1659.

All measurement facilities used to collect the measurement data are located at Electronic Testing Building, Shahe Road, Xili, Nanshan District, Shenzhen 518055 CHINA. The test site is constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22; the FCC registration number is 741109.

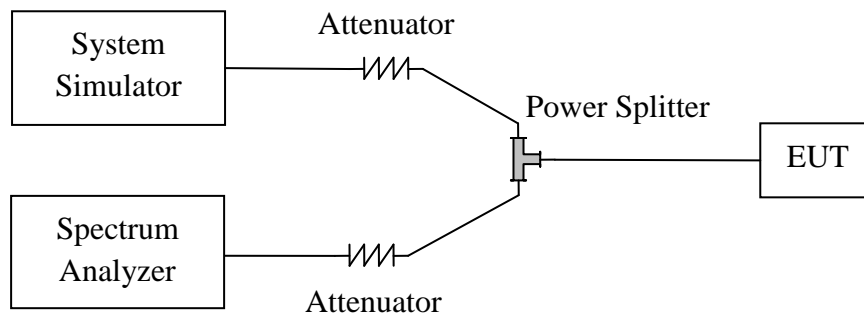
### 2.3.2 Test Environment Conditions

During the measurement, the environmental conditions were within the listed ranges:

Temperature:	20 - 25 °C
Relative Humidity:	40 - 50%
Atmospheric Pressure:	96kPa

## 2.4 47 CFR Part 2, Part 22H , Requirements

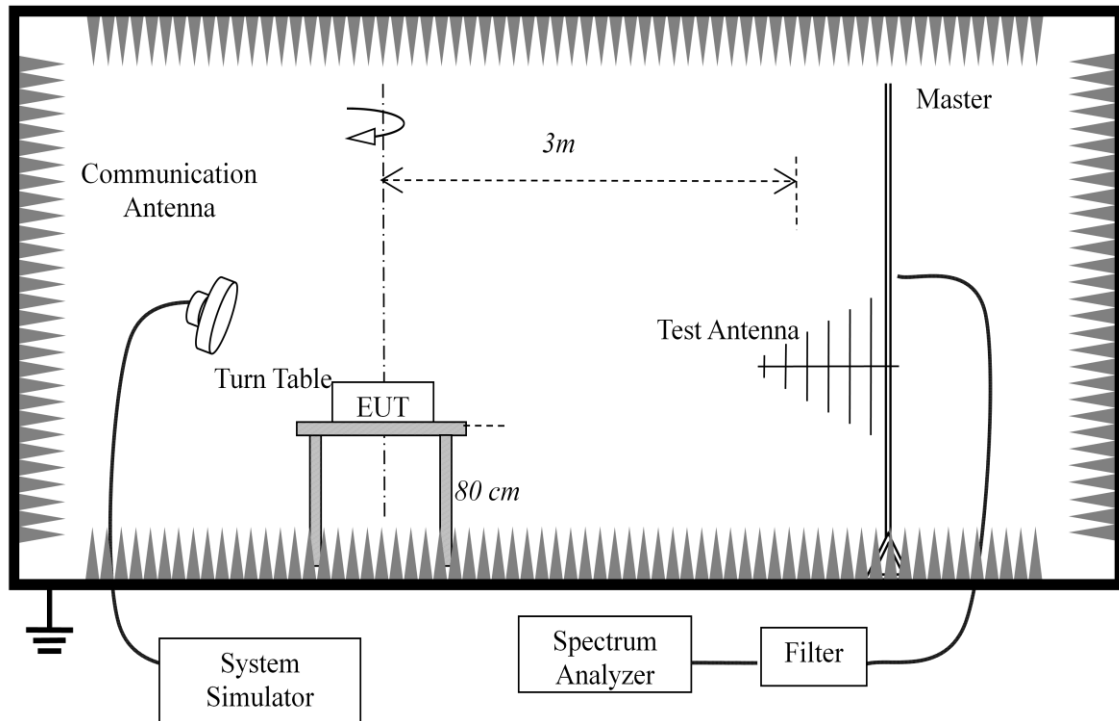
### 2.4.1 Conducted Related Tests



1. The EUT is coupled to the Spectrum Analyzer and the System Simulator with the suitable Attenuators through the Power Splitter; the path loss is calibrated to correct the reading.
2. The EUT is configured here as EUT + battery.
3. The EUT is commanded via the System Simulator (SS) to operate at the maximum output power . A communication link is established between the EUT and the SS.
4. The Spectrum Analyzer is set to max-peak detector function and maximum hold mode.

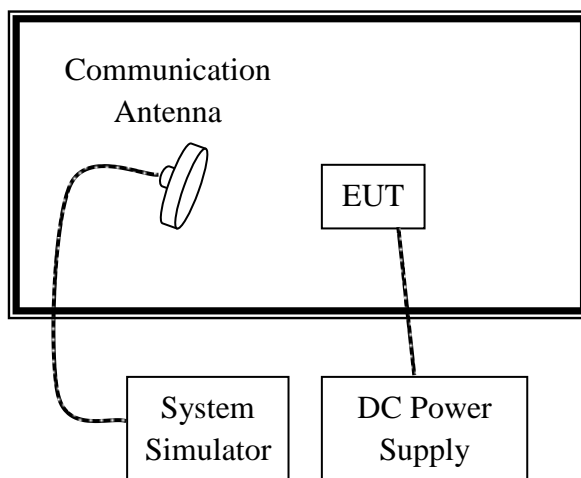


## 2.4.2 Radiated Power and Spurious Emission Tests



1. The test is performed in a full-Anechoic Chamber; the air loss of the site and the factors of the test system are pre-calibrated using the substitution method.
2. The EUT is configured as EUT + adapter.
3. The EUT is placed on the vertical axis of a Turn Table 0.8 meters above the ground.
4. The Test Antenna is a bi-log one or a horn one, and the Test Antenna is at the same height as the EUT.
5. The EUT is commanded via the System Simulator (SS) to operate at the maximum output power. A communication link is established between the EUT and the SS.
6. The Spectrum Analyzer is set to max-peak detector function and maximum hold mode.

### 2.4.3 Frequency Stability Test



1. The test is performed in a Temperature Chamber.
2. The EUT is configured as MS + DC Power Supply.

### 2.4.4 Test Mode

During all testing, EUT is in link mode with base station emulator at maximum power level. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT is rotated on three test planes to find out the worst emission.

Frequency range investigated for radiated emission is as follows:

1. 30 MHz to 10000 MHz for CDMA2000 Cellular

Test Modes		
Band	Radiated Test	Conducted Test
CDMA2000 Cellular	■ 1xRTT Link Mode_CH1013 ■ 1xRTT Link Mode_CH384 ■ 1xRTT Link Mode_CH777	■ 1xRTT Link Mode

*Note:*

1. For CDMA2000 Cellular, the maximum RF output power mode is 1xRTT which was used for EIRP and RSE testing.

## 2.5 Frequencies

### 2.5.1 Requirement

According to FCC §22.905, the frequencies blocks assignment for the Cellular Radio telephone Service are listed as below.

- (a) Channel Block A:
  - Mobile 824 - 835MHz, Base 869 - 880MHz;
  - Mobile 845 - 846.5MHz, Base 890 - 891.5MHz
- (b) Channel Block B:
  - Mobile 835 - 845 MHz, Base 880 - 890MHz;
  - Mobile 846.5 - 849 MHz, Base 891.5 - 894MHz

### 2.5.2 Procedure

1. Perform test system setup as section 2.4.1.
2. The resolution bandwidth (RBW) of the Spectrum Analyzer was set to at least 1% of the emission bandwidth of the fundamental emission of the transmitter, e.g. for GSM modulated signal (here used):  $RBW=VBW=3kHz$ , for CDMA modulated signal:  $RBW=VBW=30kHz$ .
3. The lowest and the highest channel were selected to perform tests respectively. Channel No.1013(lowest) and 777(highest) for cellular band.
4. The MS operated at the maximum output power. Set the Spectrum Analyzer suitably to capture the waveform, search peak and mark, and then record the plot.

### 2.5.3 Test Results

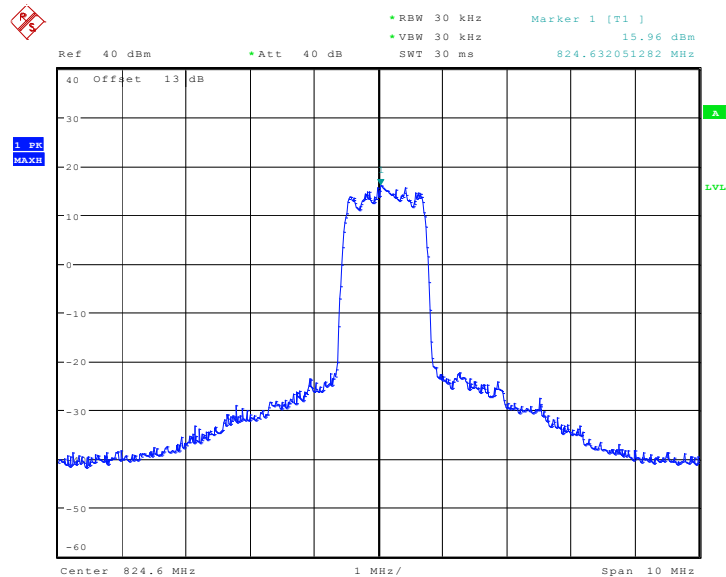
CDMA2000 Cellular				
Test Mode	Channel	Frequency (MHz)	Result	Plots
CDMA 2000 1xRTT	1013 (Low)	824.63	PASS	1
	384(Middle)	836.47	PASS	2
	777 (High)	848.22	PASS	3

Note:

The frequencies of the lowest channel and the highest channel are as the following figures.

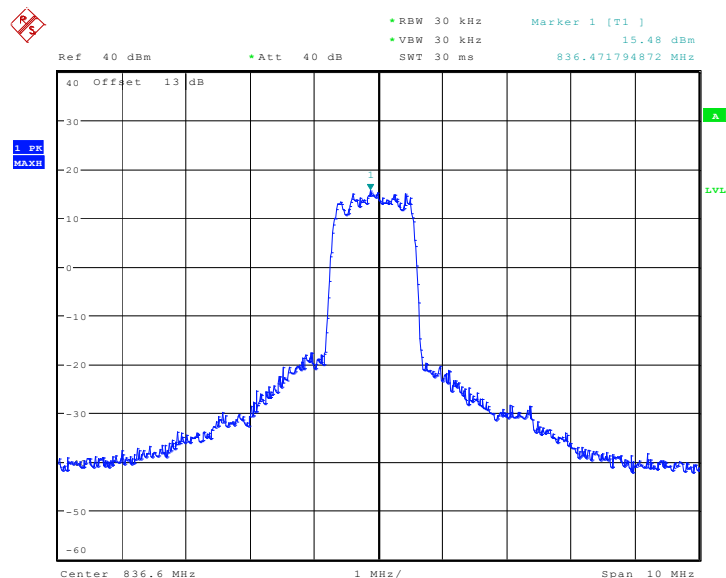
## 2.5.4 Test Plots

### 1. CDMA 1x RTT Channel 1013



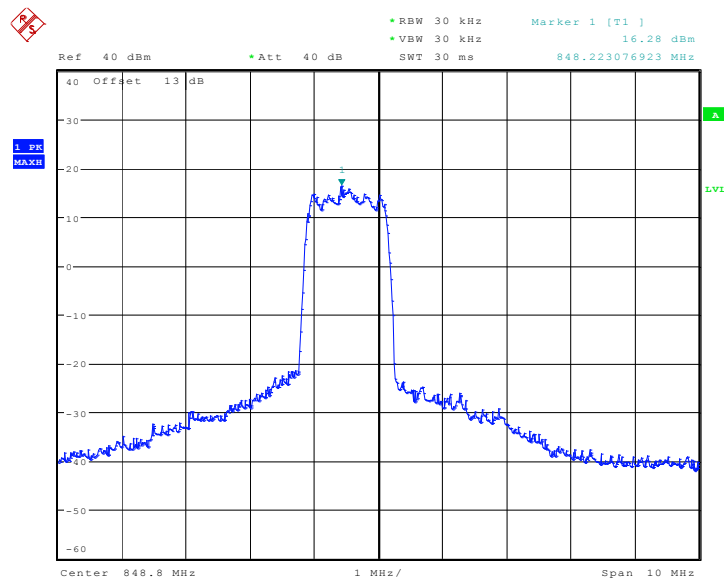
Date: 17.JUN.2010 19:26:37

### 2. CDMA 1x RTT Channel 384



Date: 17.JUN.2010 19:26:05

### 3. CDMA 1x RTT Channel 777



Date: 17.JUN.2010 19:25:34

## 2.6 Conducted RF Output Power

### 2.6.1 Requirement

According to FCC §2.1046 (a), for transmitters other than single sideband, independent sideband and controlled carrier radiotelephone, power output shall be measured at the RF output terminals when the transmitter is adjusted in accordance with the tune-up procedure to give the values of current and voltage on the circuit elements specified in §2.1033 (c)(8). The electrical characteristics of the radio frequency load attached to the output terminals when this test is made shall be stated.

### 2.6.2 Test Procedure

1. Perform test system setup as section 2.4.1 (the radio frequency load attached to the EUT antenna terminal is 50Ω).
2. The resolution bandwidth of the Spectrum Analyzer is set to be comparable to the emission bandwidth of the transmitter, e.g. for GSM modulated signal (here used): RBW=VBW=1MHz, for CDMA modulated signal: RBW=VBW=3MHz. The lowest and the highest channel were selected to perform tests respectively. Channel No.1013(lowest) 384(middle )and 777(highest) for cellular band. Set the frequency range of the Spectrum Analyzer suitably to capture the waveform; search peak and mark it; finally record the peak and the plot.

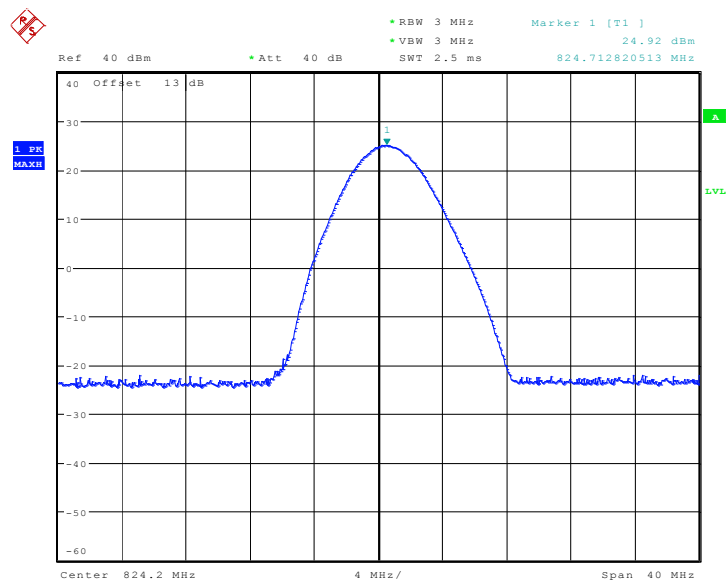
### 2.6.3 Test Results

CDMA2000 Cellular					
Test Mode	Test Status	Channel	Frequency (MHz)	Conducted power(dBm)	Conducted power(watts)
CDMA 2000 1xRTT	FCH_RC1	1013 (Low)	824.70	<b>24.92</b>	0.31
		384 (Mid)	836.52	<b>24.26</b>	0.26
		777 (High)	848.31	<b>24.24</b>	0.26
	FCH_RC3	1013 (Low)	824.70	23.78	0.23
		384 (Mid)	836.52	23.89	0.24
		777 (High)	848.31	23.43	0.22
	FCH+SCH_RC3	1013 (Low)	824.70	23.87	0.24
		384 (Mid)	836.52	23.91	0.24
		777 (High)	848.31	23.38	0.21

### 2.6.4 Test Plots

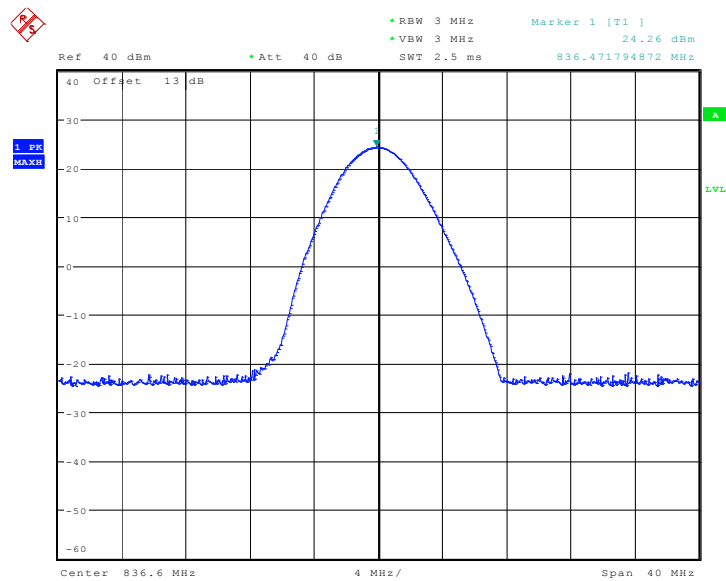
CDMA 1x RTT

1 Cellular CDMA2000 1x RTT FCH\_RC1 Channel 1013



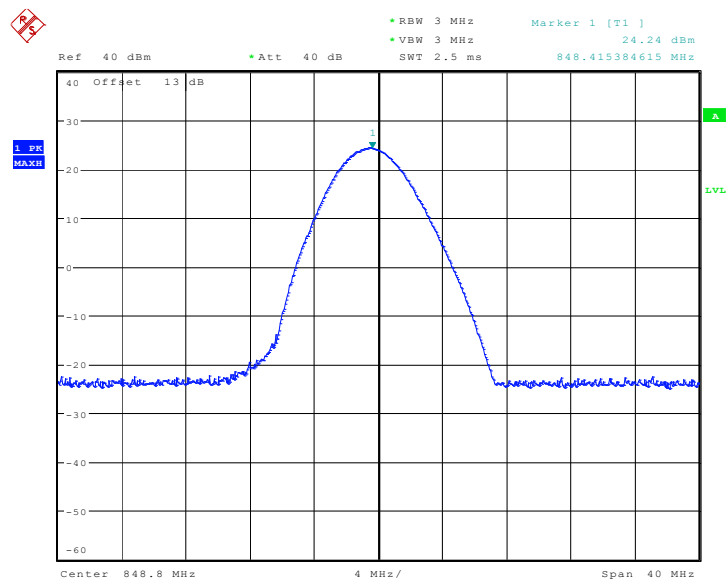
Date: 17..JUN.2010 19:23:36

## 2 Cellular CDMA2000 1x RTT FCH\_RC1 Channel 384



Date: 17.JUN.2010 19:21:32

## 3 Cellular CDMA2000 1x RTT FCH\_RC1 Channel 777



Date: 17.JUN.2010 19:24:26

## 2.7 Occupied Bandwidth

### 2.7.1 Occupied Bandwidth Definition

According to FCC §2.1049, the occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission.

Occupied bandwidth is also known as the 99% emission bandwidth. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26dB below the transmitter power.

### 2.7.2 Test Procedure

- 1 Perform test system setup as section 2.4.1 (the radio frequency load attached to the EUT antenna terminal is 50Ω).
- 2 The resolution bandwidth of the Spectrum Analyzer is set to be comparable to the emission bandwidth of the transmitter, for CDMA modulated signal: RBW=VBW=30KHz.
- 3 The lowest and the highest channel were selected to perform tests respectively. Channel No.1013(lowest) 384(middle )and 777(highest) for cellular band.
- 4 Set the frequency range of the Spectrum Analyzer suitably to capture the waveform; search peak and mark it; finally record the peak and the plot.

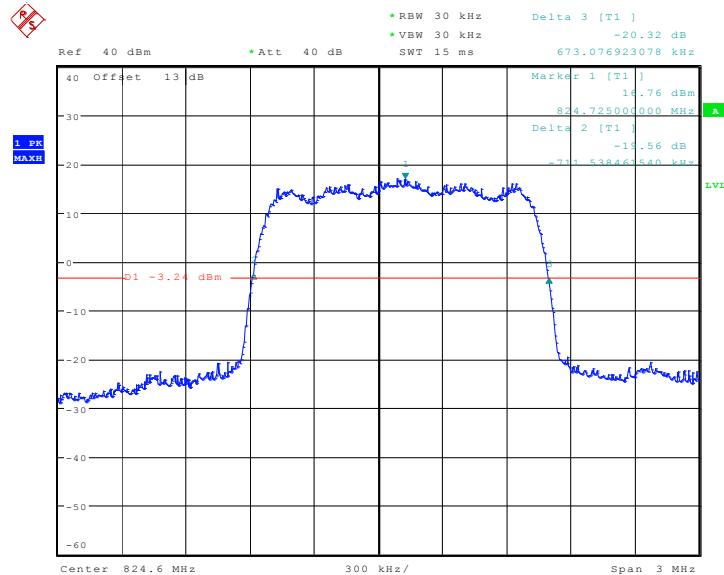
### 2.7.3 Test Result

CDMA2000 Cellular				
Test Mode	Channel	Measured Bandwidth (MHz)	Result	Plots
CDMA 2000 1xRTT	1013 (Low)	1.39	Pass	1
	384 (Mid)	1.39	Pass	2
	777 (High)	1.39	Pass	3



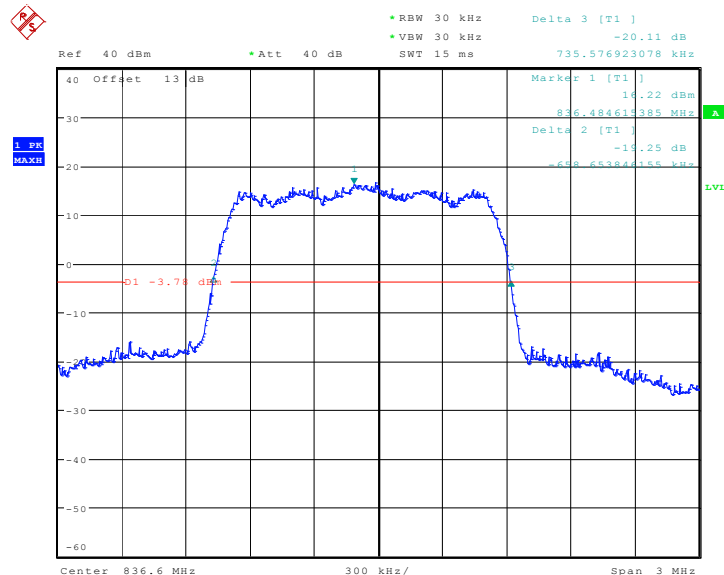
## 2.7.4 Test plots

### 1 Cellular CDMA2000 1x RTT FCH\_RC3 Channel 1013



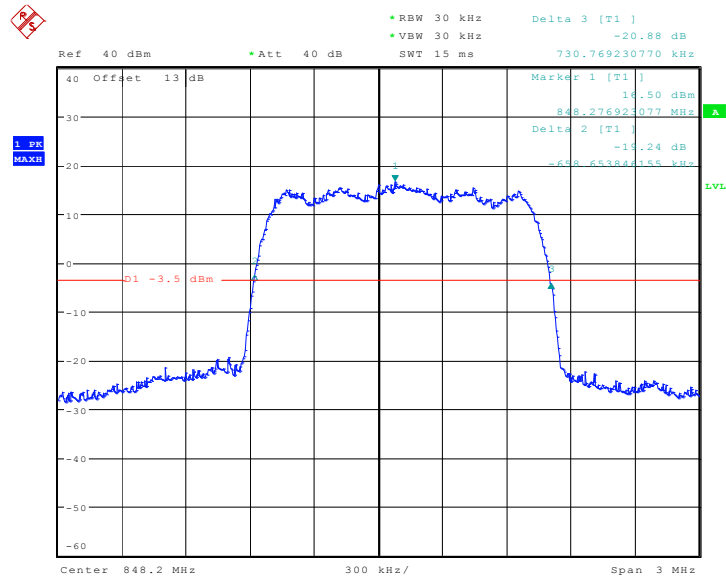
Date: 17.JUN.2010 19:35:10

### 2 Cellular CDMA2000 1x RTT FCH\_RC3 Channel 384



Date: 17.JUN.2010 19:36:50

### 3 Cellular CDMA2000 1x RTT FCH\_RC3 Channel 777



Date: 17.JUN.2010 19:39:18

## 2.8 Band-edge

### 2.8.1 Requirement

According to FCC section 22.717(b) and FCC section 24.235(b), in the 1MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth (26dB emission bandwidth) of the fundamental emission of the transmitter may be employed.

### 2.8.2 Test Description

See section 2.4.1 of this report.

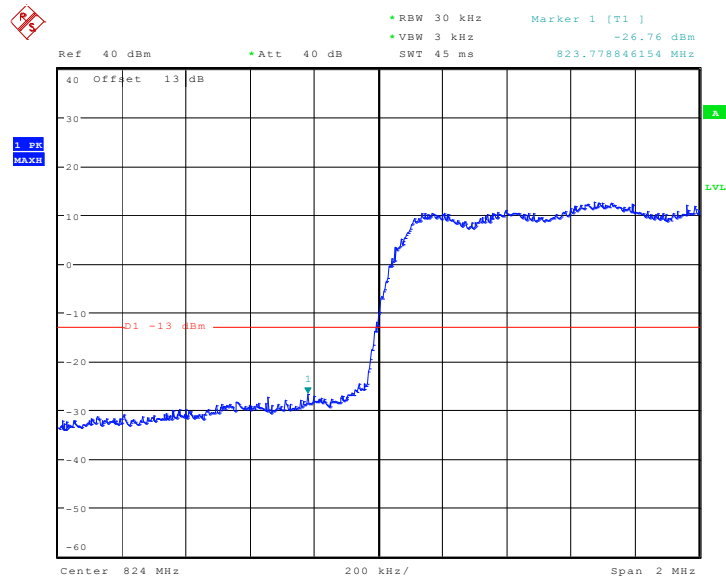
### 2.8.3 Test Result

The lowest and highest channels are tested to verify the band edge emissions.

CDMA2000 Cellular				
Test Mode	Channel	dBm	Result	Plots
CDMA 2000 1xRTT	1013 (Low)	-26.76	Pass	1
	777 (High)	-26.56	Pass	2

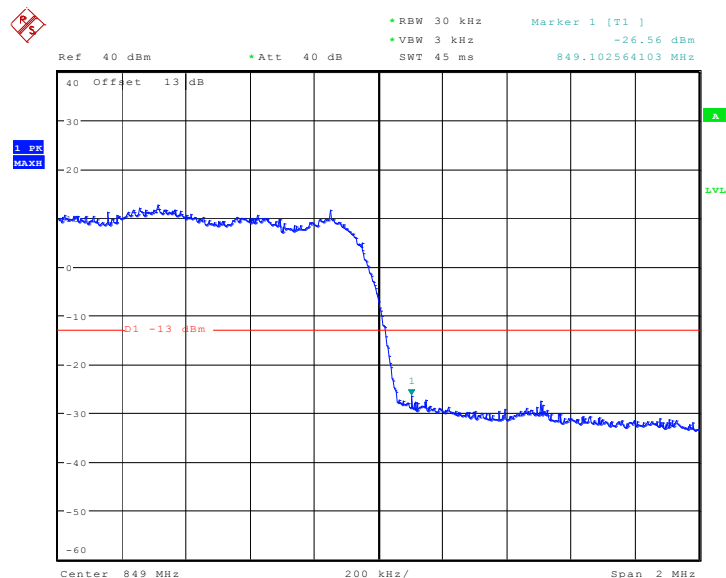
### 2.8.4 Test plots

## 1 Cellular CDMA2000 1x RTT FCH\_RC3 Channel 1013



Date: 17.JUN.2010 19:41:58

## 2 Cellular CDMA2000 1x RTT FCH\_RC3 Channel 777



Date: 17.JUN.2010 19:43:06

## **2.9 Conducted Spurious Emission**

### **2.9.1 Requirement**

According to FCC §22.917(a) and §24.238(a), the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43+10*\log(P)$ dB. This calculated to be -13dBm.

According to FCC §22.917 (b) and §24.238(b), in the 1MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. Thus the 26dB emission bandwidth is measurement for showing compliance at the band-edge.

### **2.9.2 Test Procedure**

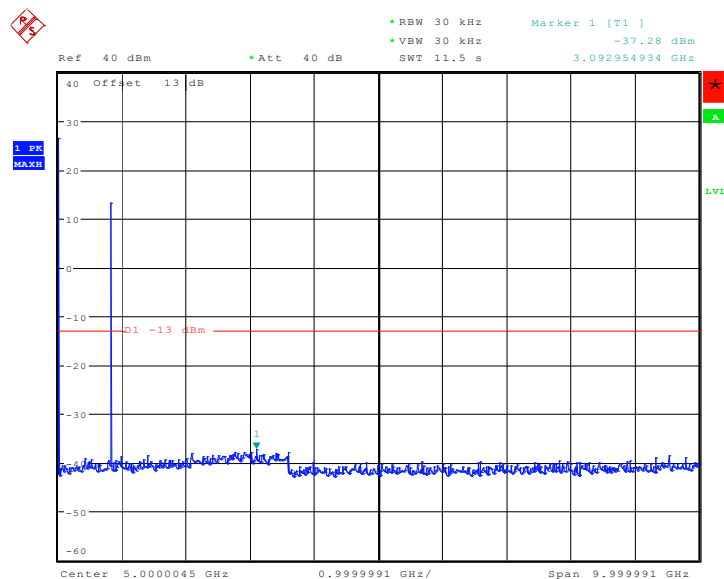
1. Perform test system setup as section 2.4.1.
2. Make a limit line whose value is -13dBm on the Spectrum Analyzer.
3. The lowest and the highest channel were selected to perform tests respectively. Channel No.1013(lowest) 384(middle )and 777(highest) for cellular band.
4. Set the RBW of the Spectrum Analyzer to 1MHz, and the measuring frequency range from 9kHz to 10<sup>th</sup> harmonic of the fundamental frequency (here used 26.5GHz); mark the fundamental frequency and the harmonics thereof; finally record the harmonics and the plot. Note, the measuring frequency range can be divided into several parts to perform tests.
5. In the 1MHz bands immediately outside and adjacent to the frequency black, the RBW of the Spectrum Analyzer was set to at least one percent of the emission bandwidth of the fundamental emission of the transmitter, e.g. for GSM modulated signal (here used): RBW=3kHz, for CDMA modulated signal: RBW=1MHz.
6. Set the frequency range of the Spectrum Analyzer suitably to capture the waveform; search peak and mark it; finally record the peak and the plot.

### 2.9.3 Test Results

CDMA2000 Cellular				
Test Mode	Channel	Measured Max. Spurious Emission (dBm)	Result	Plots
CDMA 2000 1xRTT	1013 (Low)	-37.28	Pass	1
	384 (Mid)	-37.21	Pass	2
	777 (High)	-36.75	Pass	3

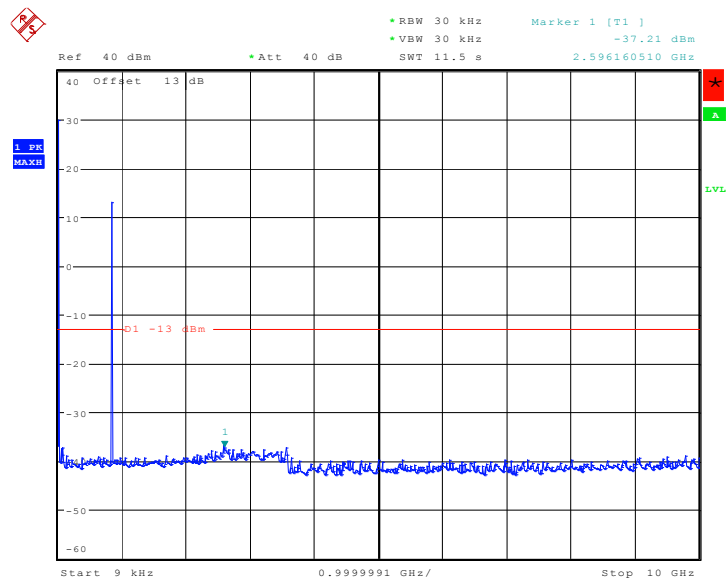
### 2.9.4 Test Plots

#### 1 Cellular CDMA2000 1x RTT FCH\_RC3 Channel 1013



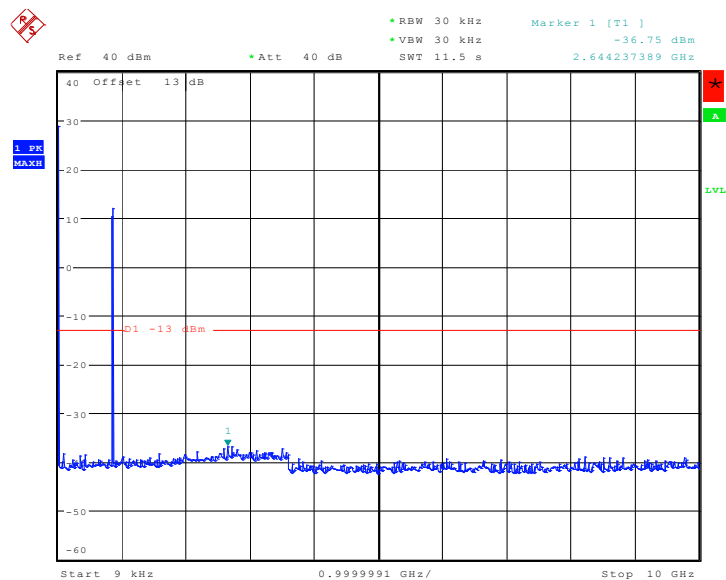
Date: 17..11.2010 19:47:40

## 2 Cellular CDMA2000 1x RTT FCH\_RC3 Channel 384



Date: 17.JUN.2010 19:45:55

## 3 Cellular CDMA2000 1x RTT FCH\_RC3 Channel 777



Date: 17.JUN.2010 19:45:18

## **2.10 Transmitter Radiated Power (EIRP/ERP)**

### **2.10.1 Requirement**

According to FCC §22.913, the ERP of Cellular mobile transmitters must not exceed 7 Watts (38.5dBm).

### **2.10.2 Test Procedure**

1. Perform test system setup as section 2.4.2.
2. The resolution bandwidth of the Spectrum Analyzer is set to be comparable to the emission bandwidth of the transmitter, e.g. for GSM modulated signal (here used):  $RBW=VBW=1\text{MHz}$ , for CDMA modulated signal:  $RBW=VBW=3\text{MHz}$ .
3. The lowest and the highest channel were selected to perform tests respectively. Channel No.1013(lowest) 384(middle )and 777(highest) for cellular band.
4. Employ the bi-log Test Antenna as the test system receiving antenna; set the polarization of the Test Antenna to be the same as that of the EUT transmitting antenna.
5. Set the frequency range of the Spectrum Analyzer suitably to capture the waveform; actuate the Turn Table to turn from 0 degrees to 360 degrees to find the maximum reading via the Spectrum Analyzer, mark the peak; finally record the peak and the plot.
6. Set the frequency range of the Spectrum Analyzer suitably to capture the waveform; search peak and mark it; finally record the peak and the plot.

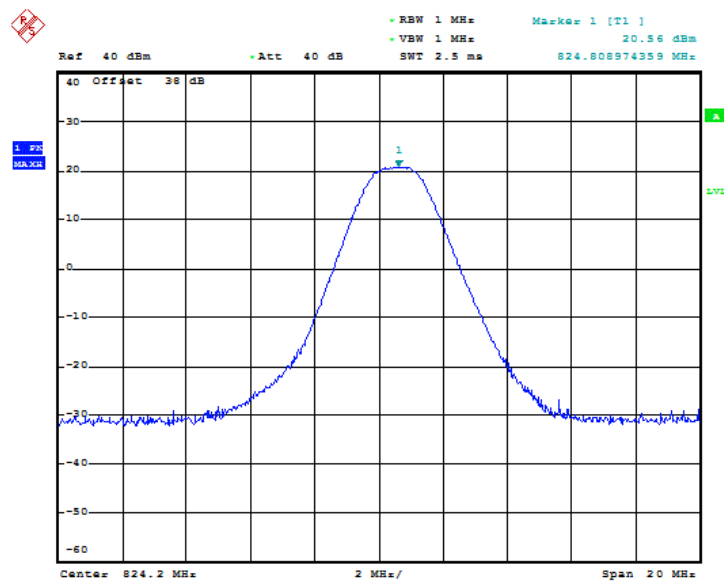


### 2.10.3 Test Result

CDMA2000 Cellular					
Test Mode	Channel	Measured ERP		Result	Plots
		dBm	Watts		
CDMA 2000 1xRTT	1013 (Low)	20.56	0.11	Pass	1
	384 (Mid)	19.96	0.09	Pass	2
	777 (High)	19.72	0.09	Pass	3

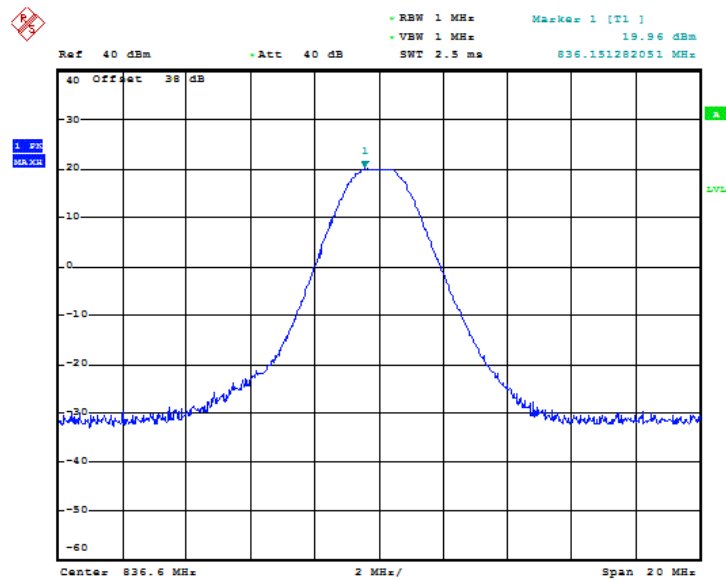
### 2.10.4 Test plots

#### 1 Cellular CDMA2000 1x RTT FCH\_RC3 Channel 1013



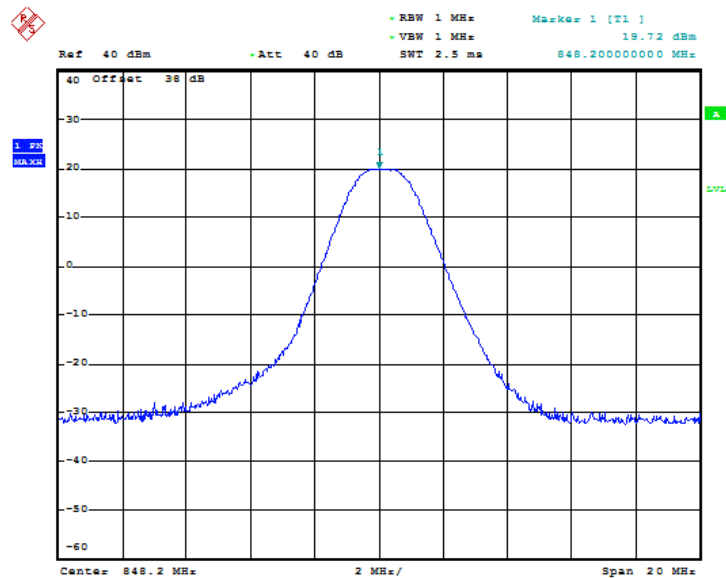
Date: 17.JUN.2010 19:51:02

## 2 Cellular CDMA2000 1x RTT FCH\_RC3 Channel 384



Date: 17. JUN. 2010 19:51:40

## 3 Cellular CDMA2000 1x RTT FCH\_RC3 Channel 777



Date: 17. JUN. 2010 19:52:14

## **2.11 Radiated Spurious Emission**

### **2.11.1 Requirement**

According to FCC §22.917(a) and §24.238(a), ANSI / TIA /EIA-603-C-2004, the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43+10*\log(P)$ dB. This calculated to be -13dBm.

### **2.11.2 Test Procedure**

1. Perform test system setup as section 2.4.2
2. Make a limit line whose value is -13dBm on the Spectrum Analyzer, and set the RBW of the Spectrum Analyzer to 1MHz.
3. The two worst case channel were selected to perform tests respectively.
4. Employ the bi-log Test Antenna as the test system receiving antenna and set the frequency range of the Spectrum Analyzer from 30MHz to 3GHz.
5. The measurement is performed with the Test Antenna at both horizontal and vertical polarization respectively. Set the polarization of the Test Antenna to be horizontal.
6. Actuate the Turn Table to turn from 0 degrees to 360 degrees to find the maximum reading via the Spectrum Analyzer, mark the fundamental frequency and the harmonics thereof, after then record the harmonics and the plot.
7. Set the polarization of the Test Antenna to be vertical, then repeat step 6.
8. Employ the horn Test Antenna as the test system receiving antenna and set the frequency range of the Spectrum Analyzer from 3GHz to 10<sup>th</sup> harmonic of the fundamental frequency, then repeat step 5 to 7.
9. Set the frequency range of the Spectrum Analyzer suitably to capture the waveform; search peak and mark it; finally record the peak and the plot.

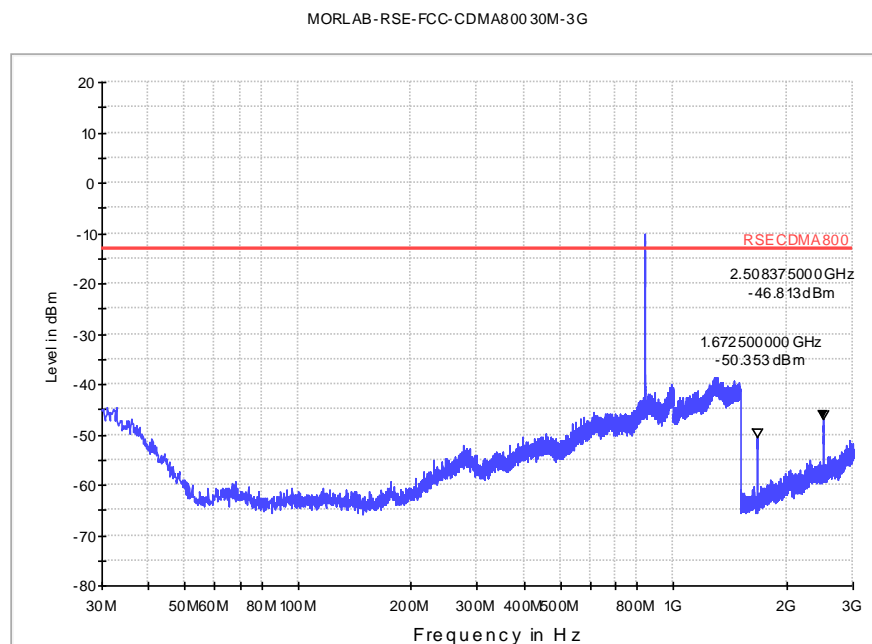
### 2.11.3 Test Result and plots

CDMA2000 Cellular						
Test Mode	Channel	Max Spurious Emission (dBm)		Limit (dBm)	Result	Plots
		Horizontal	Vertical			
CDMA 2000 1xRTT	CH1013	<-13	<-13	-13	Pass	1&2
	CH384	<-13	<-13	-13	Pass	3&4
	CH777	<-13	<-13	-13	Pass	5&6

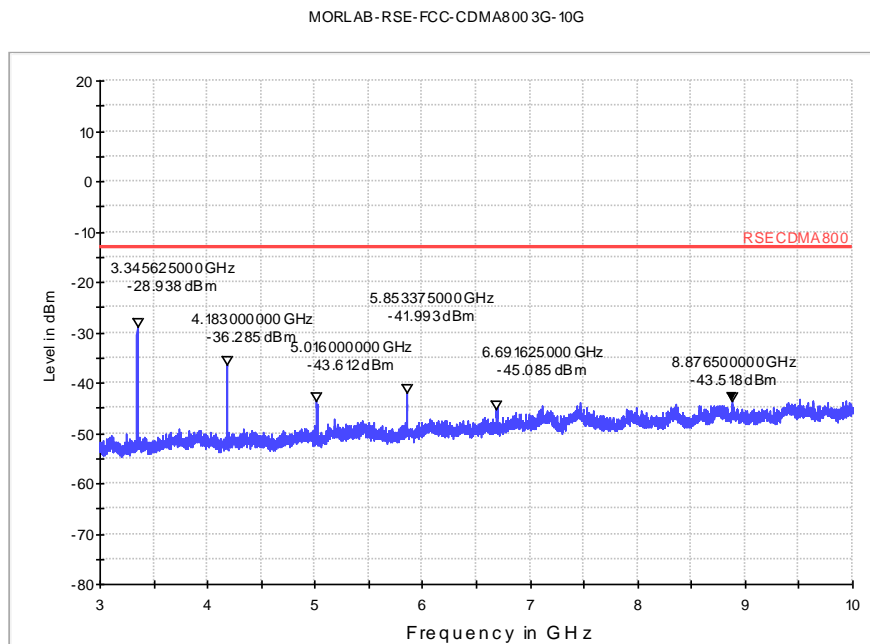
Note: All test modes are performed, only the worst cases are recorded in this report.

### 2.11.4 Test plots

#### 1 Cellular CDMA2000 1x RTT(Horizontal) CH 384

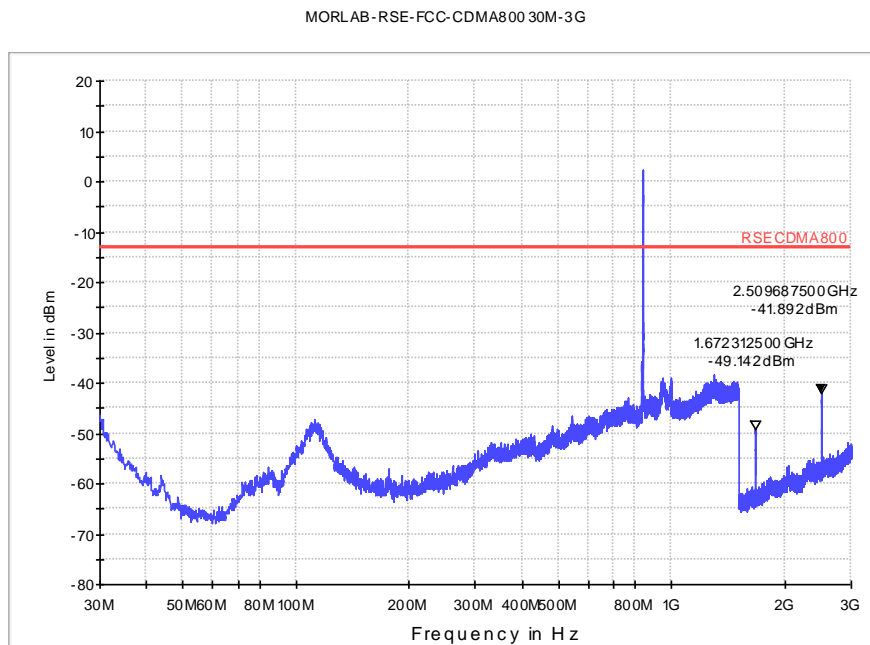


Plots 1

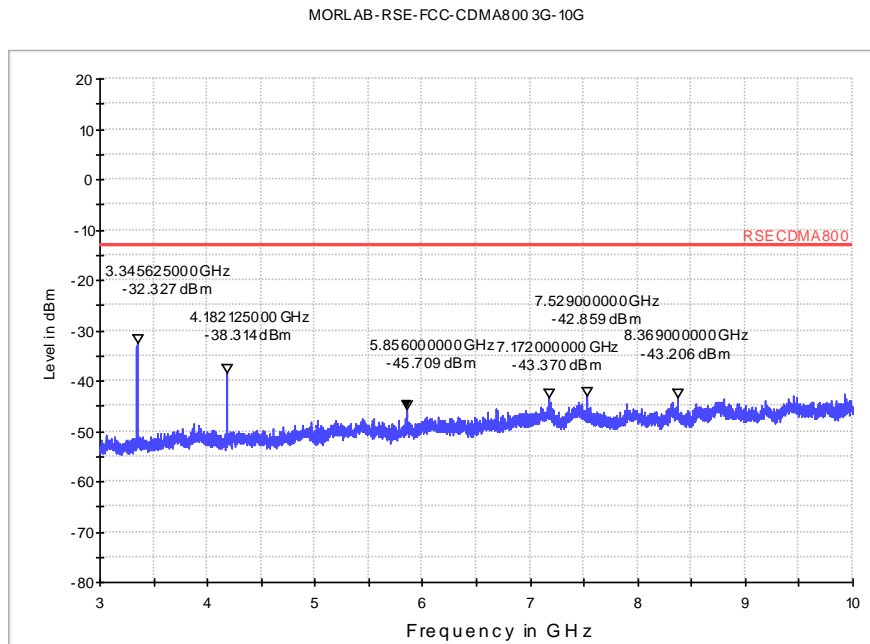


Plots 2

## 2 Cellular CDMA2000 1x RTT(Vertical) CH384



Plots 3



**Plots 4**

## **2.12 Frequency Stability**

### **2.12.1 Frequency Stability Requirement**

According to FCC §22.355, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

According to FCC §2.1055, the test conditions are:

- (a) Temperature:  
The temperature is varied from -30 °C to +50 °C at intervals of not more than 10 °C.
- (b) Primary Supply Voltage:  
For hand carried battery powered equipment, the primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacture. The supply voltage shall be measured at the input to the cable normally provided with the equipment, or at the power supply terminals if cables are not normally provided.

### **2.12.2 Test Procedure**

1. Perform test system setup as section 2.4.3.
2. Set the voltage of the DC Power Supply to normal supply voltage (here used 3.3V) and the temperature of the Temperature Chamber to vary from -30 °C to +50 °C at intervals of 10 °C.
3. At each temperature level, the EUT is powered off and kept in the Temperature Chamber for two hours. After sufficient stabilization, turn on the EUT, command it via the System Simulator (SS) to operate at the maximum output power i.e. A communication link is established between the EUT and the SS.
4. The frequency deviation is measured (directly read from the SS, which can report the parameter) within three minutes.
5. Set the frequency range of the Spectrum Analyzer suitably to capture the waveform; search peak and mark it; finally record the peak and the plot.
6. Adjust the temperature of the Temperature Chamber as specified in step 2, then repeat step 3 to 7.
7. Set the voltage of the DC Power Supply to high extreme supply voltage (here used 3.6V) and the temperature of the Temperature Chamber to normal (here used +25 °C), then repeat step 3 to 8.
8. Set the voltage of the DC Power Supply to low extreme supply voltage (here used 3.0V) and the temperature of the Temperature Chamber to normal (here used +25 °C), then repeat step 3 to 8.

Note: All test modes are performed, only the worst cases are recorded in this report.

### 2.12.3 Test results

Band & Channel	Mode	Voltage (Volt)	Temperature ( °C)	Dev. Freq. (Hz)	Deviation (ppm)	Limit (ppm)	Result
CDMA2000 Cellular CH384	1xRTT 38.4Kbps	3.3	-30	+2	0.00	2.5	PASS
			-20	+3	0.00		
			-10	+1	0.00		
			0	+4	0.00		
			+10	-2	0.00		
			+20	+3	0.00		
			+30	+1	0.00		
			+40	-3	0.00		
			+50	+1	0.00		
		3.6	+25	+2	0.00		
		3.0	+25	-2	0.00		



### 3. Test Equipments

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
System Simulator	Rohde&Schwarz	CMU200	105571	2009.11	1 year
System Simulator	Anritsu	MT8820A	BE07218	2009.10	1 year
System Simulator	Agilent	E5515C	GB46040102	2009.10	1 year
Spectrum Analyzer	Agilent	E4407B	MY44210631	2009.09	1 year
Spectrum Analyzer	Rohde&Schwarz	FSP30	101020	2009.10	1 year
EMI Test Receiver	Rohde&Schwarz	ESCI3	100666	2009.10	1 year
Bi-Log Antenna	Rohde&Schwarz	HL562	100385	2009.10	1 year
Horn Antenna	Rohde&Schwarz	HF906	100565	2009.10	1 year
Power Splitter	Weinschel	1506A	NW521	(n.a.)	(n.a.)
Power Splitter	HP	11667B	00164	(n.a.)	(n.a.)
Attenuator 1	Resnet	20dB	(n.a.)	(n.a.)	(n.a.)
Attenuator 2	Resnet	3dB	(n.a.)	(n.a.)	(n.a.)
Anechoic Chamber	ETS	9m*6m*6m	(n.a.)	(n.a.)	(n.a.)
Turn Table	ETS LINDGREN	2188	(n.a.)	(n.a.)	(n.a.)
Antenna Tower	ETS LINDGREN	2175	(n.a.)	(n.a.)	(n.a.)
Personal Computer	Lenovo	(n.a.)	(n.a.)	(n.a.)	(n.a.)
EMC Software	Rohde&Schwarz	EMC32	(n.a.)	(n.a.)	(n.a.)

**NOTE:**

- Equipments listed above have been calibrated and are in the period of validation.

**\*\* END OF REPORT \*\***