



REPORT No.: SZ15020015W01

# FCC TEST REPORT

**APPLICANT** : ZTE Corporation  
**PRODUCT NAME** : CDMA2000 Mobile Phone Handset  
**MODEL NAME** : ZTE R144C  
**TRADE NAME** : ZTE  
**BRAND NAME** : ZTE  
**FCC ID** : SRQ-R144C  
**STANDARD(S)** : 47 CFR Part 22 Subpart H  
**ISSUE DATE** : 2015-03-05



**SHENZHEN MORLAB COMMUNICATIONS TECHNOLOGY Co., Ltd.**

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### Change History

Issue	Date	Reason for change
1.0	Mar 5, 2015	First edition



## Test Report Declaration

Applicant	ZTE Corporation
Applicant Address	ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park, Nanshan District, Shenzhen, Guangdong, P.R. China
Manufacturer	ZTE Corporation
Manufacturer Address	ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park, Nanshan District, Shenzhen, Guangdong, P.R. China
Product Name	CDMA2000 Mobile Phone Handset
Model Name	ZTE R144C
Brand Name	ZTE
HW Version	R144C_V1AMB_B
SW Version	R144C_S_MH8J3001
Test Standards	47 CFR Part 22 Subpart H
Test Date	2014-02-15 to 2015-03-05
Test Result	PASS

Tested by : Nie Juan

Nie Juan

Reviewed by : Peng Huarui

Peng Huarui

Approved by : Zeng Dexin

Zeng Dexin



## 1. GENERAL INFORMATION

### 1.1 EUT Description

Frequency Range ..... : CDMA 800MHz:  
Tx: 824.7 – 848.31 MHz;  
Rx: 869.7-893.31MHz

Modulation Type..... : CDMA 1X  
Antenna Type..... : PIFA Antenna  
Emission Designators ..... : 1M27F9W

**Note 1:** The EUT is a model of CDMA mobile station operating in Cellular bands.

**Note 2:** The normal configuration for the EUT is the Mobile Phone (MS) associated with ancillary equipments e.g. the Battery and/or the AC Adapter (Charger).

**Note 3:** For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.

## 1.2 Test Standards and Results

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

No.	Identity	Document Title
1	47 CFR Part 2 (14-10-11 Edition)	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	47 CFR Part 22 (14-10-11 Edition)	Public Mobile Services

Test detailed items/section required by FCC rules and results are as below:

No.	Section	Description	Result
1	2.1046	Conducted RF Output Power	PASS
2	2.1049,22.917 24.238	99% Occupied Bandwidth	PASS
3	2.1055,22.355 24.235	Frequency Stability	PASS
4	2.1051,2.1057 22.917,24.238,	Conducted Out of Band Emissions	PASS
5	2.1051,2.1057 22.917,24.238	Band Edge	PASS
6	22.913,24.232	Transmitter Radiated Power (EIPR/ERP)	PASS
7	2.1053,2.1057 22.917,24.238	Radiated Out of Band Emissions	PASS

**NOTE:** Measurement method according to TIA/EIA 603.D-2010



## 1.3 Facilities and Accreditations

### 1.3.1 Facilities

All measurement facilities used to collect the measurement data are located at FL.1, Building A, FeiYang Science Park, No.8 LongChang Road,Block 67, BaoAn District, ShenZhen, GuangDong Province,P. R. China 518101. 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 SRQ-R144C.

### 1.3.2 Test Environment Conditions

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

Temperature (°C):	15 - 35
Relative Humidity (%):	30 -60
Atmospheric Pressure (kPa):	86-106

## 2. 47 CFR PART 2, PART 22H REQUIREMENTS

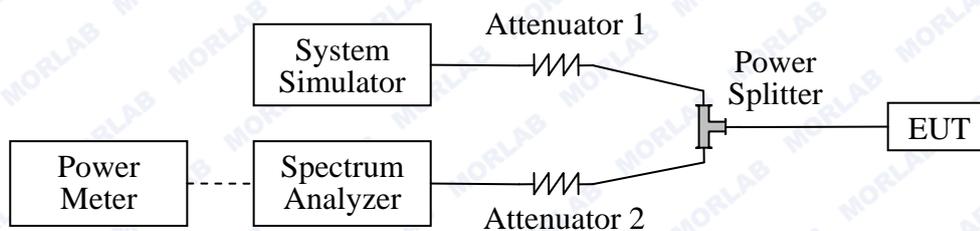
### 2.1 Conducted RF Output Power

#### 2.1.1 Requirement

According to FCC section 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 FCC section 2.1033(c)(8).

#### 2.1.2 Test Description

##### 1. Test Setup:



The EUT, which is powered by the Battery, is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power i.e. Power Control Level (PCL) = 5 and Power Class = 4. A call is established between the EUT and the SS.

The Power Meter was just used for the Conducted RF Output Power test of WCDMA Model.

##### 2. Equipments List:

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
System Simulator	Agilent	E5515C	GB43130131	2015.02.26	2016.02.25
Spectrum Analyzer	Agilent	E7405A	US44210471	2015.02.26	2016.02.25
Power Meter	Agilent	E4418B	GB43318055	2015.02.26	2016.02.25
Power Sensor	Agilent	8482A	MY41091706	2015.02.26	2016.02.25
Power Splitter	Weinschel	1506A	NW521	2015.02.26	2016.02.25
Attenuator 1	Resnet	20dB	(n.a.)	2015.02.26	2016.02.25
Attenuator 2	Resnet	3dB	(n.a.)	2015.02.26	2016.02.25

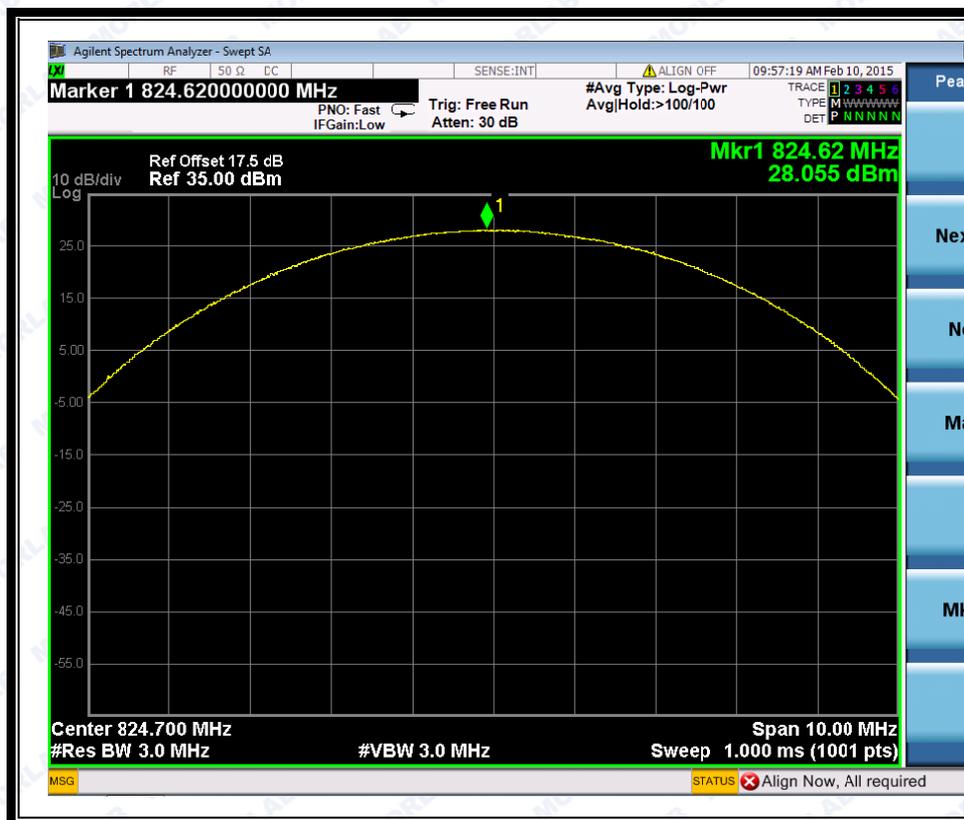
### 2.1.3 Test Results

Here the lowest, middle and highest channels are selected to perform testing to verify the conducted RF output power of the EUT.

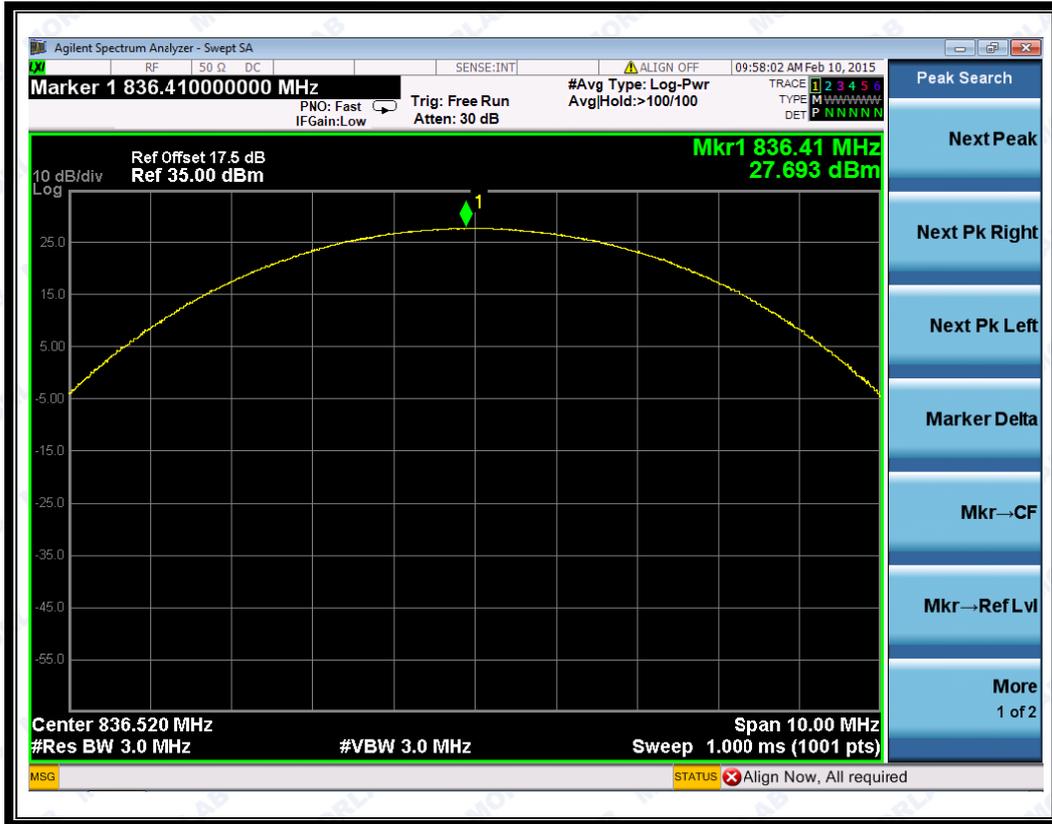
#### 1. CDMA Model Test Verdict:

No.	Channel Number	Frequency (MHz)	Measured Power		Rated Power	
			dBm	W	dBm	W
CDMA 800MHz	1013	824.7	28.055	0.638999	38.5	7
	384	836.52	27.693	0.587895		
	777	848.31	27.819	0.605202		

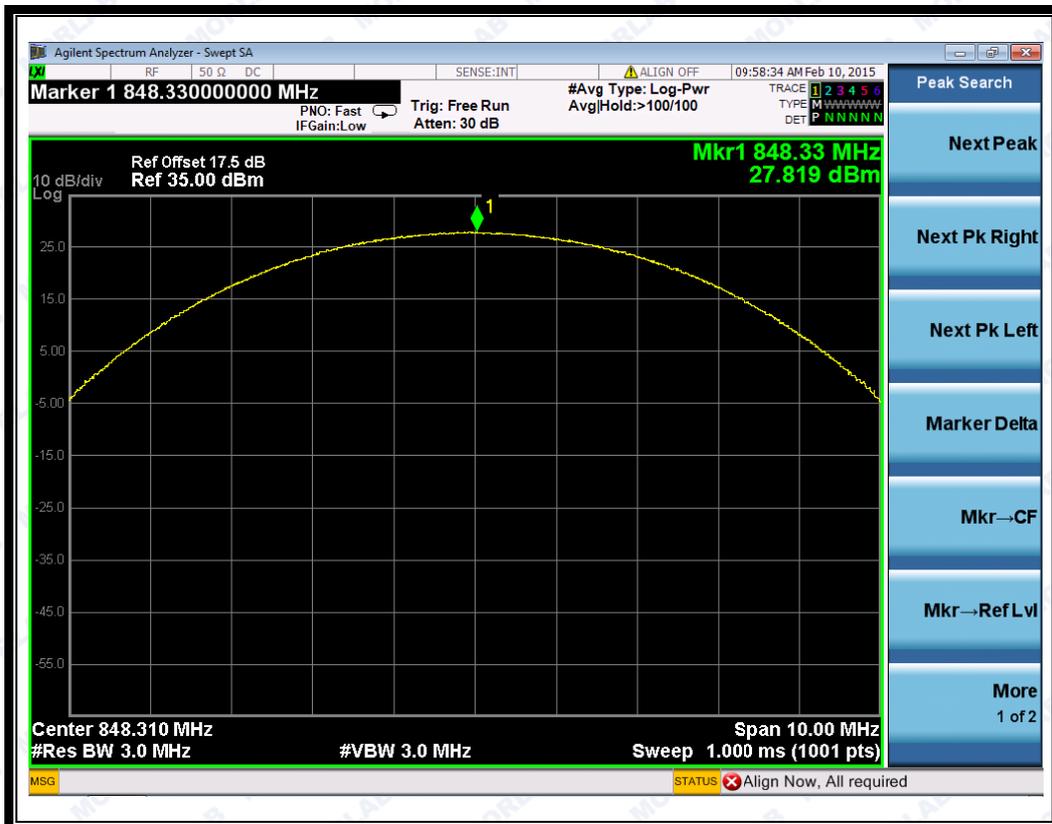
#### 2. CDMA Model Test Plots:



(Plot A: CDMA 800MHz Channel = 1013)



(Plot B: CDMA 800MHz Channel = 384)



(Plot C: CDMA 800MHz Channel = 777)

## 2.2 99% Occupied Bandwidth

### 2.2.1 Definition

According to FCC section 2.1049 and FCC § 22.917 & 24.238 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,

### 2.2.2 Test Description

See section 2.1.2 of this report.

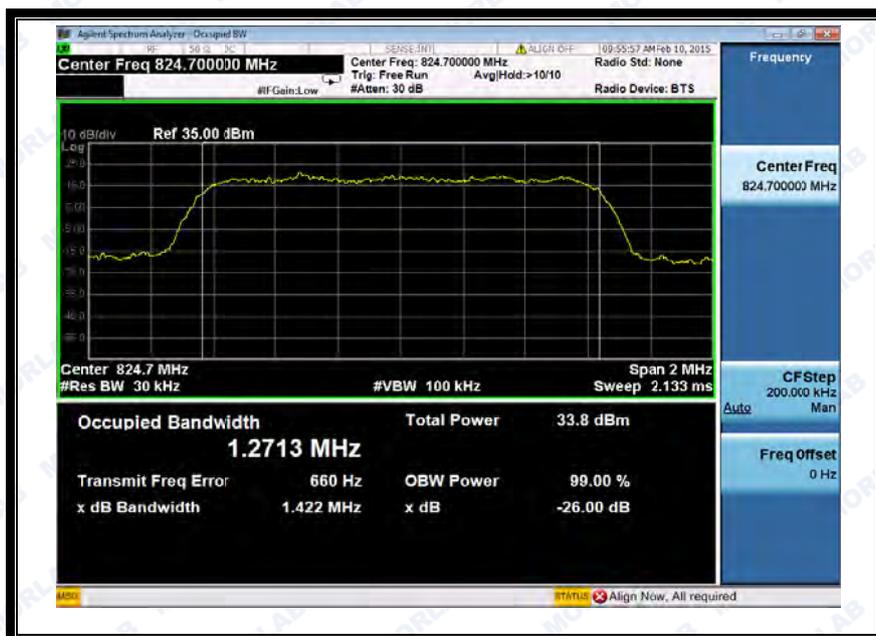
### 2.2.3 Test Verdict

Here the lowest, middle and highest channels are selected to perform testing to verify the 99% occupied bandwidth.

#### 1. Test Verdict:

Band	Channel	Frequency (MHz)	Measured 99% Occupied Bandwidth (MHz)	26 dB Occupied Bandwidth (MHz)	Refer to Plot
CDMA 800MHz	1013	824.7	1.2713	1.422	Plot A
	384	836.52	1.2688	1.428	Plot B
	777	848.31	1.2677	1.430	Plot C

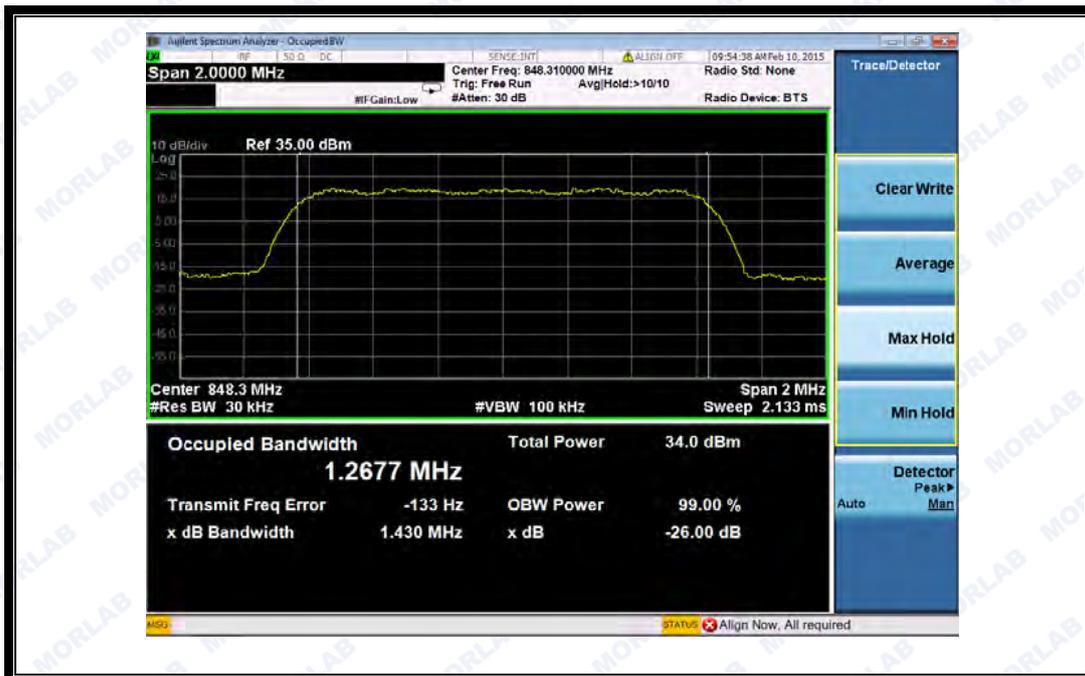
#### 2. Test Plots:



(Plot A: CDMA 800MHz Channel = 1013)



(Plot B: CDMA 800MHz Channel = 384)



(Plot C: CDMA 800MHz Channel = 777)

## 2.3 Frequency Stability

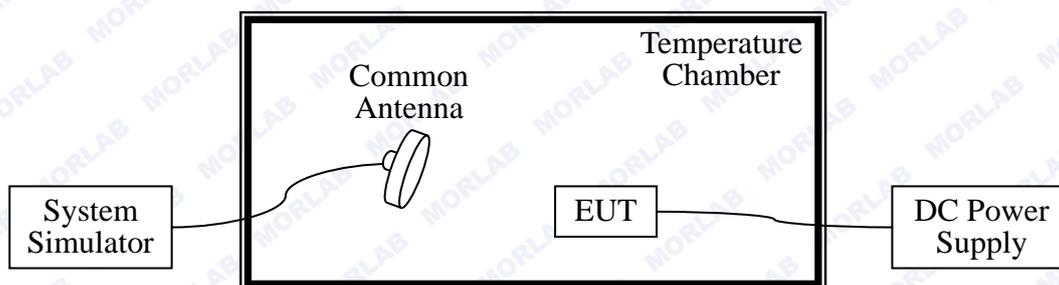
### 2.3.1 Requirement

According to FCC section 22.355 and FCC section 24.235, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. According to FCC section 2.1055, the test conditions are:

- (a) The temperature is varied from  $-30^{\circ}\text{C}$  to  $+50^{\circ}\text{C}$  at intervals of not more than  $10^{\circ}\text{C}$ .
- (b) 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.

### 2.3.2 Test Description

#### 1. Test Setup:



The EUT, which is powered by the DC Power Supply directly, is located in the Temperature Chamber. The EUT is commanded by the System Simulator (SS) to operate at the maximum output power i.e. Power Control Level (PCL) = 5 and Power Class = 4. A call is established between the EUT and the SS via a Common Antenna.

#### 2. Equipments List:

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
System Simulator	Agilent	E5515C	GB43130131	2015.02.26	2016.02.25
DC Power Supply	Good Will	GPS-3030DD	EF920938	2015.02.26	2016.02.25
Temperature Chamber	YinHe Experimental Equip.	HL4003T	(n.a.)	2015.02.26	2016.02.25

### 2.3.3 Test Verdict

The nominal, highest and lowest extreme voltages are separately 3.8VDC, 4.2VDC and 3.45VDC, which are specified by the applicant; the normal temperature here used is  $25^{\circ}\text{C}$ . The frequency deviation limit of



850MHz band is  $\pm 2.5$ ppm, and 1900MHz is  $\pm 1$ ppm.

1. CDMA 800MHz Band

Band	Test Conditions		Frequency Deviation						Verdict
	Power (VDC)	Temperature (°C)	Channel = 1013 (824.7MHz)		Channel = 384 (836.52MHz)		Channel = 777 (848.31MHz)		
			Hz	Limits	Hz	Limits	Hz	Limits	
CDMA 800MHz	3.7	-30	6.06	$\pm 2061.75$	26.75	$\pm 2091.30$	-66.29	$\pm 2120.775$	
		-20	-31.13		-21.01		19.37		
		-10	27.01		91.54		-21.06		
		0	6.20		-7.85		15.04		
		+10	-9.17		33.32		-32.26		
		+20	44.51		7.09		15.09		
		+30	29.79		63.04		29.75		
		+40	-68.75		-40.26		-41.08		
		+50	37.43		29.09		31.44		
	4.2	+25	33.27	-37.85	-9.85				
	3.4	+25	24.34	85.32	15.32				

## 2.4 Conducted Out of Band Emissions

### 2.4.1 Requirement

According to FCC section 22.917(a) and FCC section 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.

### 2.4.2 Test Description

See section of this report.

### 2.4.3 Test Result

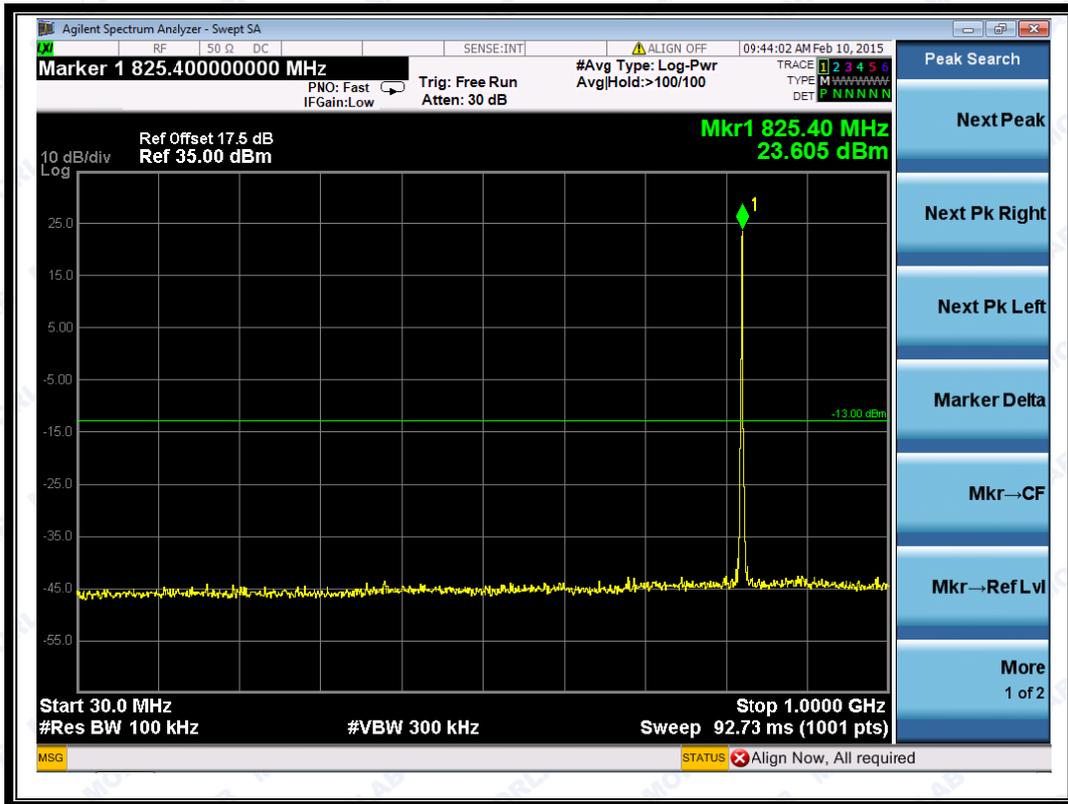
The measurement frequency range is from 30MHz to the 10<sup>th</sup> harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the out of band emissions.

#### 1. Test Verdict:

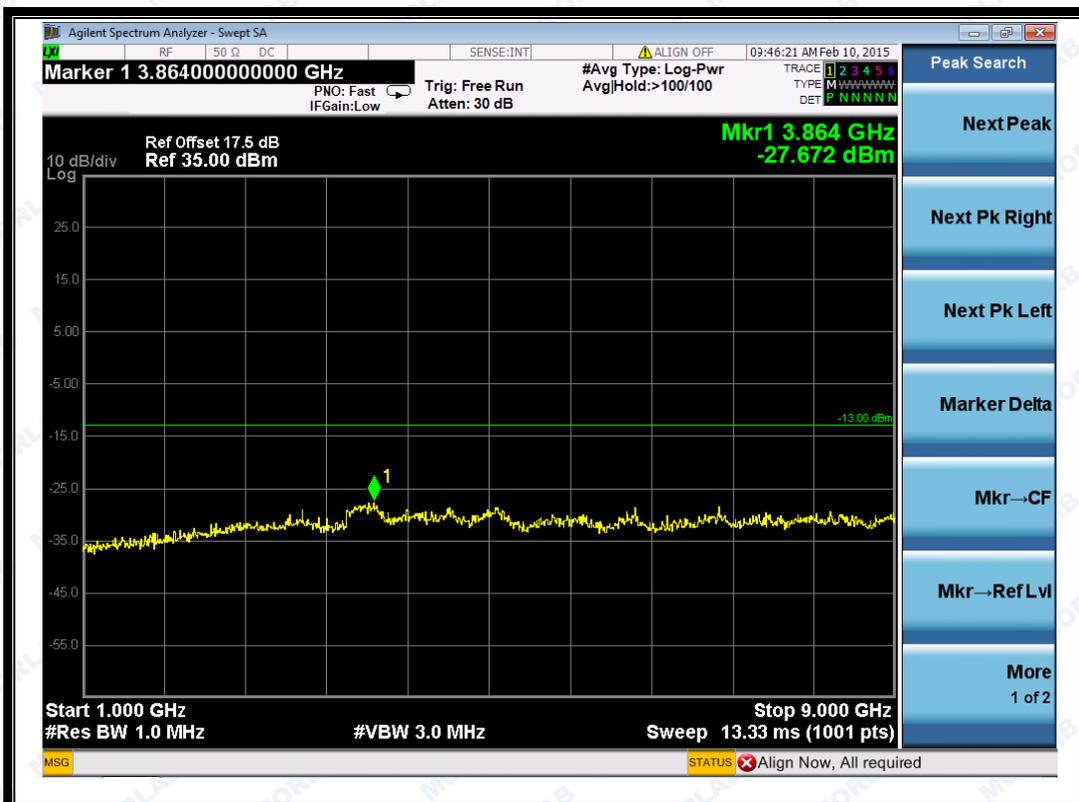
No.	Channel	Frequency(MHz )	Measured Max Spurious Emission(dBm)	Limit(dBm)
CDMA 800MHz	1013	824.7	-26.52	-13
	384	836.52	-27.67	-13
	777	848.31	-27.76	-13

#### 2. Test Plots for the Whole Measurement Frequency Range:

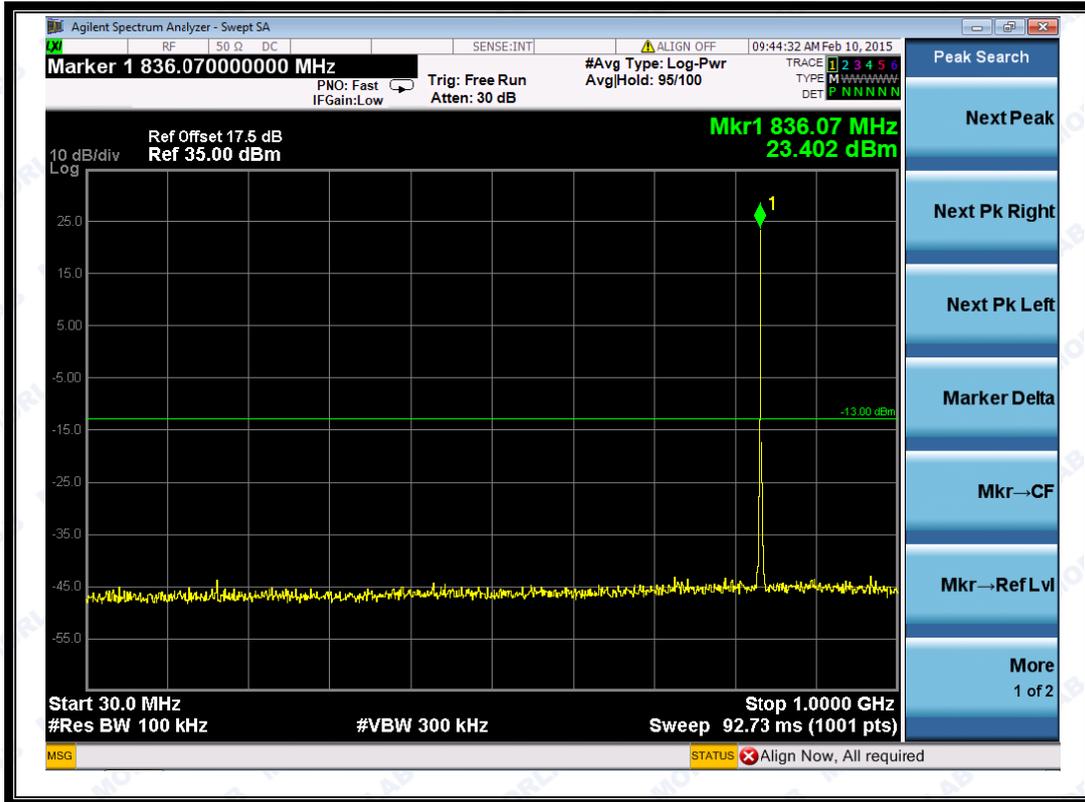
**Note:** the power of the EUT transmitting frequency should be ignored.



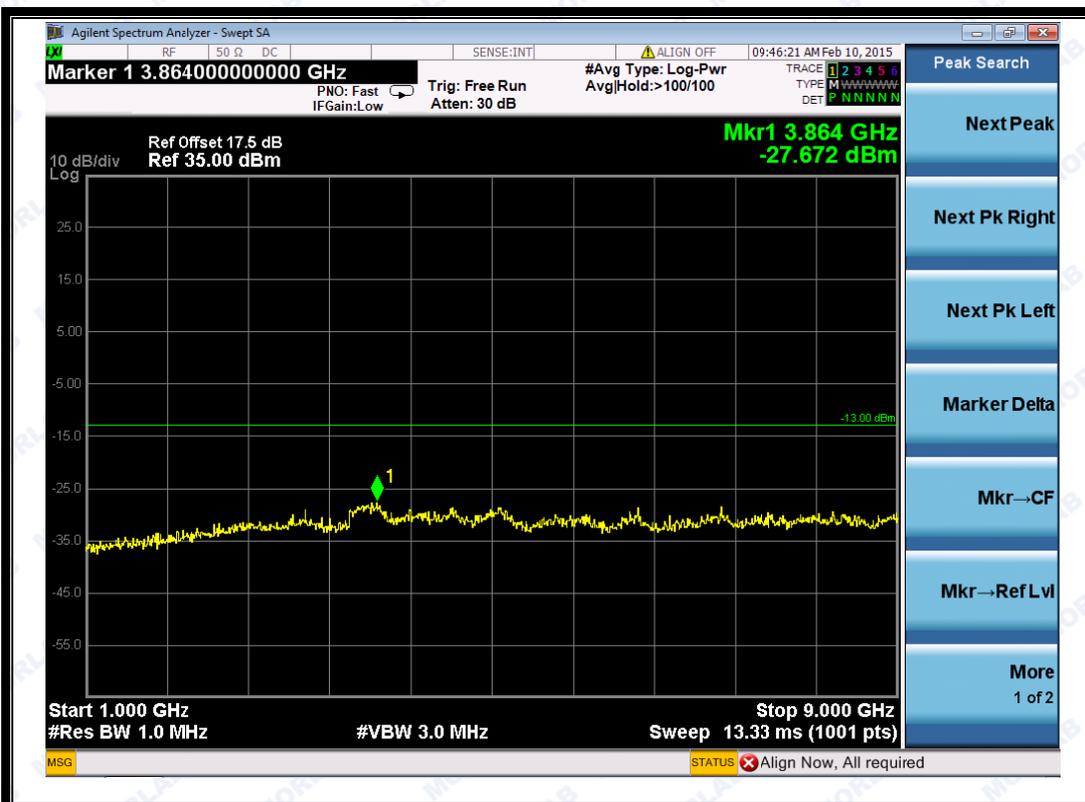
(Plot A1:CDMA 800MHz Channel = 1013, 30MHz to 1GHz)



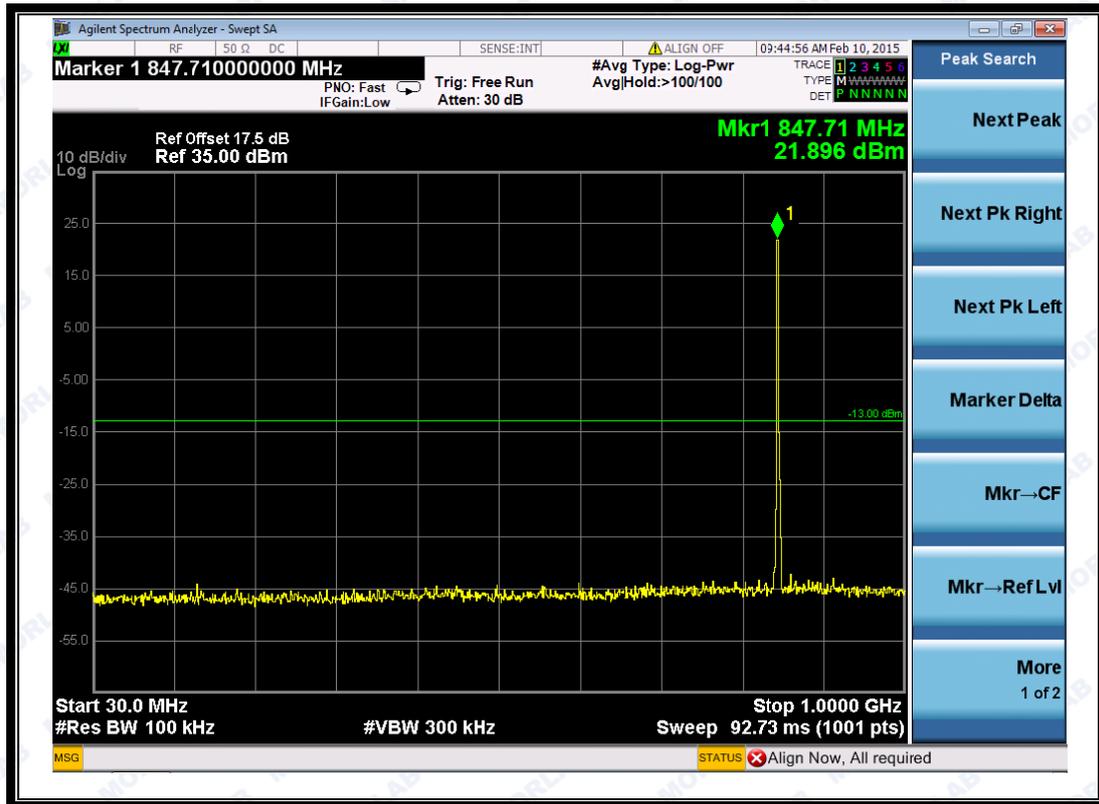
(Plot A1.1: CDMA 800MHz Channel = 1013, 1GHz to 9GHz)



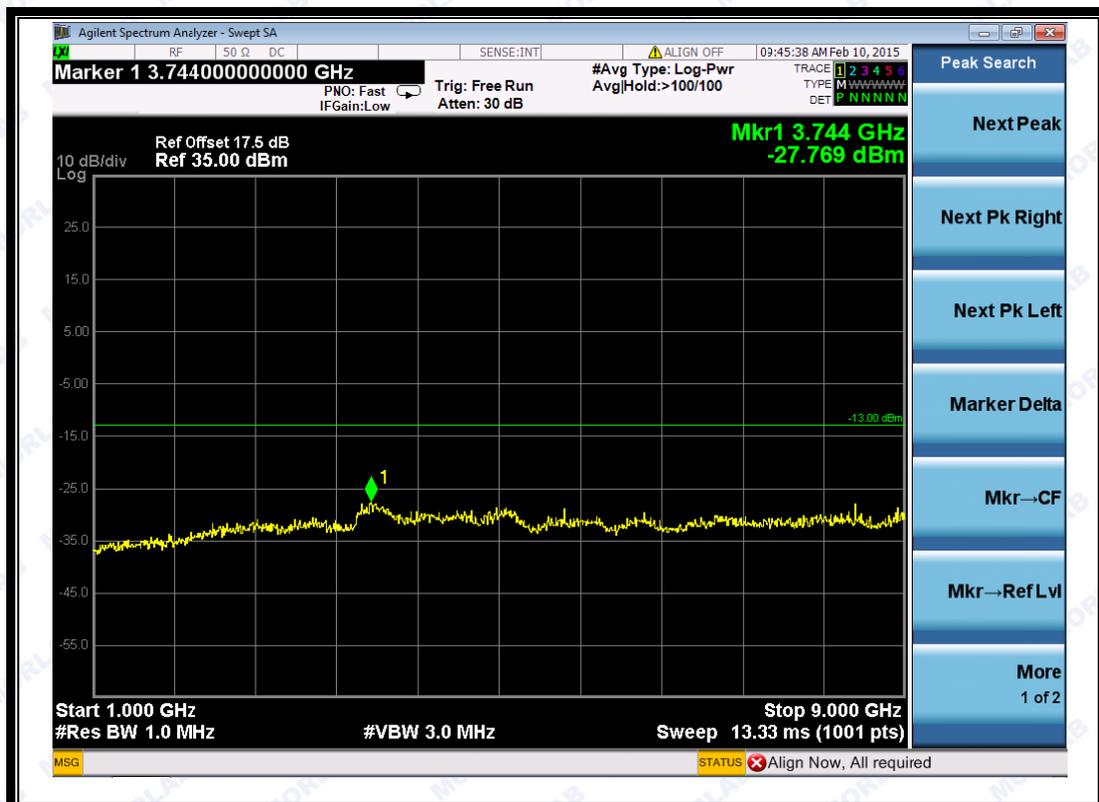
(Plot A2:CDMA 800MHz Channel = 384,, 30MHz to 1GHz)



(Plot A2.1: CDMA 800MHz Channel = 384,, 1GHz to 9GHz)



(Plot A3:CDMA 800MHz Channel = 777, 30MHz to 1GHz)



(Plot A3:CDMA 800MHz Channel = 777, 1GHz to 9GHz)



## 2.5 Band Edge

### 2.5.1 Requirement

According to FCC section 22.917(b) and FCC section 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 (26dB emission bandwidth) of the fundamental emission of the transmitter may be employed.

### 2.5.2 Test Description

See section 2.1.2 of this report.

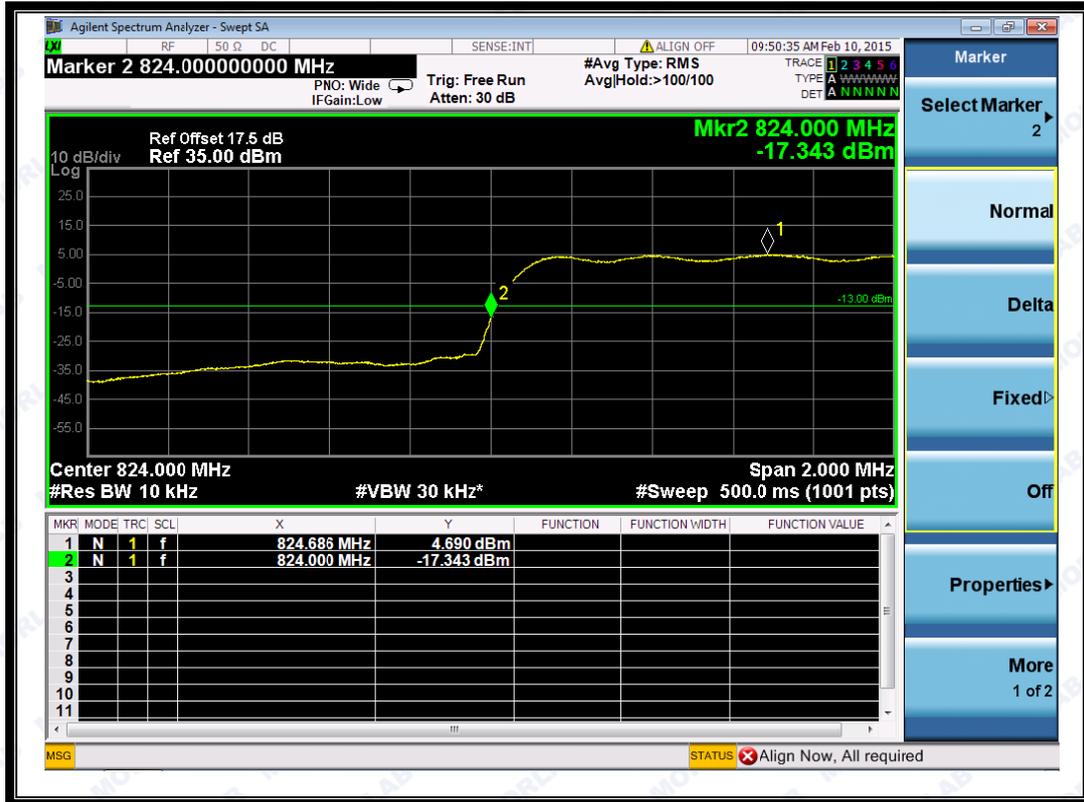
### 2.5.3 Test Result

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

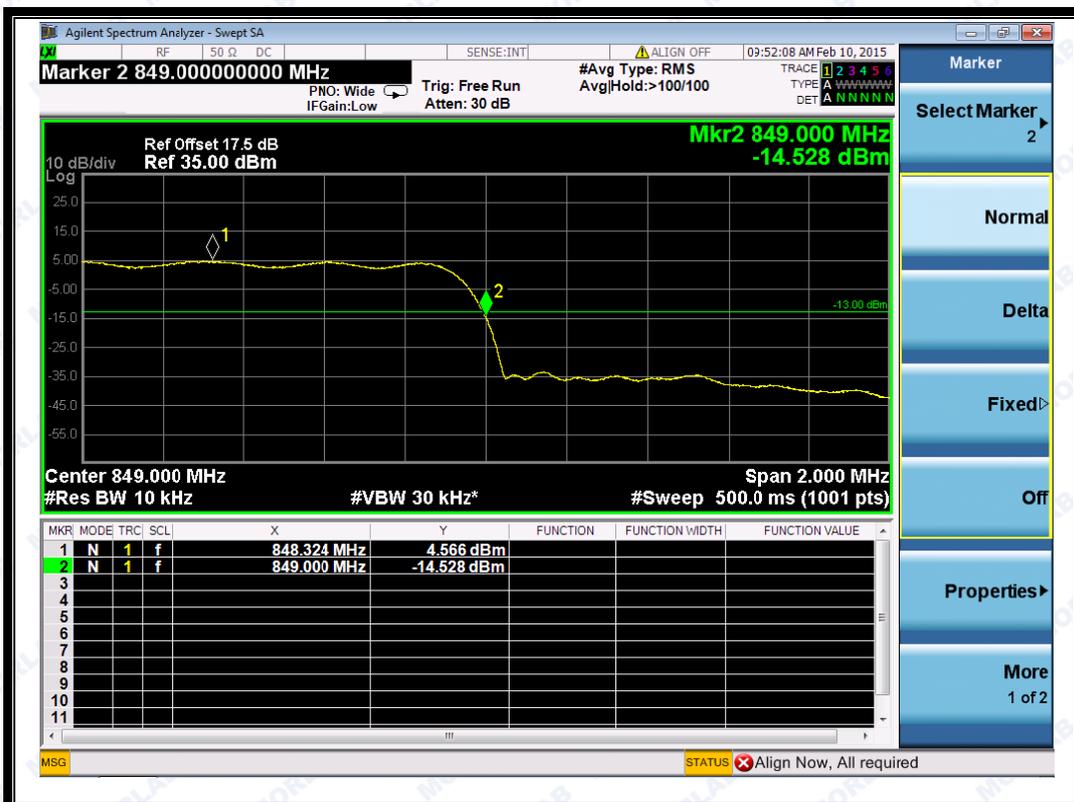
#### 1. Test Verdict:

Band	Channel	Frequency (MHz)	Measured Max. Band Edge Emission (dBm)	Refer to Plot	Limit (dBm)	Verdict
CDMA 800MHz	1013	824.7	-17.34	Plat A	-13	PASS
	777	848.31	-14.53	Plot B		PASS

#### 2. Test Plots:



(Plot A: CDMA 800MHz Channel = 1013)



(Plot B: CDMA 800MHz Channel = 777)

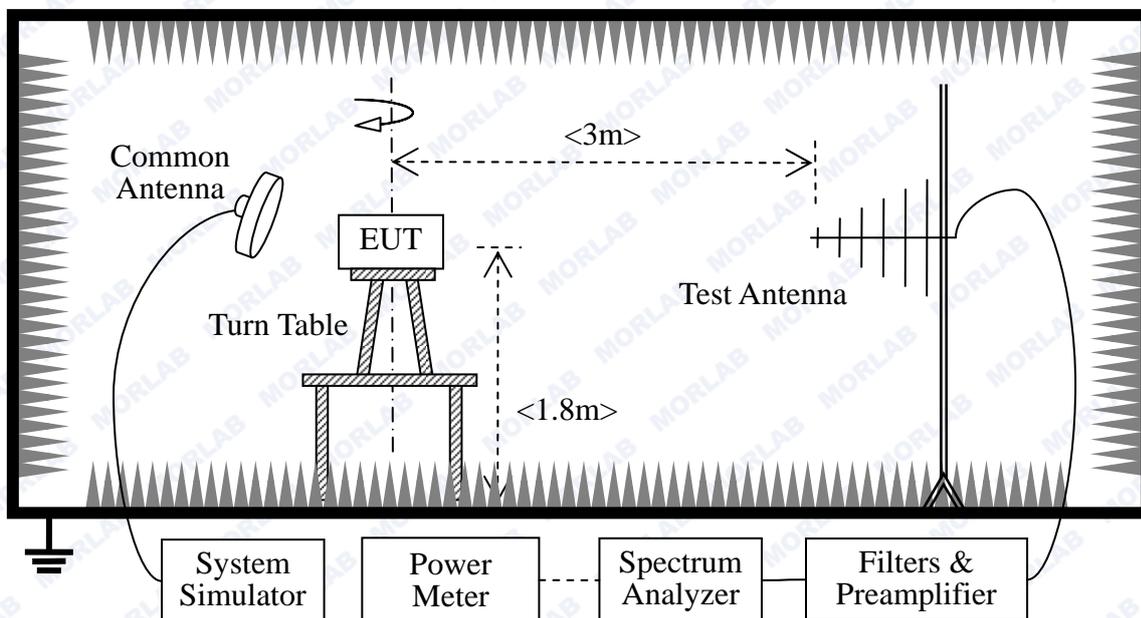
## 2.6 Transmitter Radiated Power (EIRP/ERP)

### 2.6.1 Requirement

According to FCC section 22.913, the Effective Radiated Power (ERP) of mobile transmitters and auxiliary test transmitters must not exceed 7Watts, and FCC section 24.232, the broadband PCS mobile station is limited to 2 Watts e.i.r.p. peak power

### 2.6.2 Test Description

#### 1. Test Setup:



The EUT, which is powered by the Battery charged with the AC Adapter, is located in a 3m Full-Anechoic Chamber; the cable loss, air loss and so on of the site as factors are pre-calibrated using the "Substitution" method, and calculated to correct the reading.

A call is established between the EUT and the SS via a Common Antenna. The EUT is commanded by the SS to operate at the maximum and minimum output power, and only the test result of the maximum output power was recorded.

- CDMA 800MHz Maximum RF output power: 28dBm, Please refer to section 2.1.3 of this report.
- Step size (dB): 3dB
- Minimum RF power: CDMA 800 3.1dBm,

The Test Antenna is a Bi-Log one (used for 30MHz to 1GHz) or a Horn one (used for above 3GHz), and it's located at the same height as the EUT. The Filters consists of Notch Filters and High Pass Filter.



## 2. Equipments List:

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
System Simulator	Agilent	E5515C	GB43130131	2015.02.26	2016.02.25
Spectrum Analyzer	Agilent	E7405A	US44210471	2015.02.26	2016.02.25
Full-Anechoic Chamber	Albatross	9m*6m*6m	(n.a.)	2015.02.26	2016.02.25
Test Antenna - Bi-Log	Schwarzbeck	VULB 9163	9163-274	2015.02.26	2016.02.25
Test Antenna - Horn	Schwarzbeck	BBHA 9120C	9120C-384	2015.02.26	2016.02.25
Substitution Antenna	Schwarzbeck	BBHA 9120C	9120C-384	2015.02.26	2016.02.25
Pre-AMPs	lucix	S10M100L3802	S020180L3203	2015.02.26	2016.02.25
Notch Filter	COM-MW	ZBSF-C836.5-25-X	NA	2015.02.26	2016.02.25
Notch Filter	COM-MW	ZBSF-C1747.5-75-X2	NA	2015.02.26	2016.02.25
Notch Filter	COM-MW	ZBSF-C1880-60-X2	NA	2015.02.26	2016.02.25

**2.6.3 Test Result**

The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. The lowest, middle and highest channels are tested.

The substitution corrections are obtained as described below:

$$A_{\text{SUBST}} = P_{\text{SUBST\_TX}} - P_{\text{SUBST\_RX}} - L_{\text{SUBST\_CABLES}} + G_{\text{SUBST\_TX\_ANT}}$$

$$A_{\text{TOT}} = L_{\text{CABLES}} + A_{\text{SUBST}}$$

Where  $A_{\text{SUBST}}$  is the final substitution correction including receive antenna gain.

$P_{\text{SUBST\_TX}}$  is signal generator level,

$P_{\text{SUBST\_RX}}$  is receiver level,

$L_{\text{SUBST\_CABLES}}$  is cable losses including TX cable,

$G_{\text{SUBST\_TX\_ANT}}$  is substitution antenna gain.

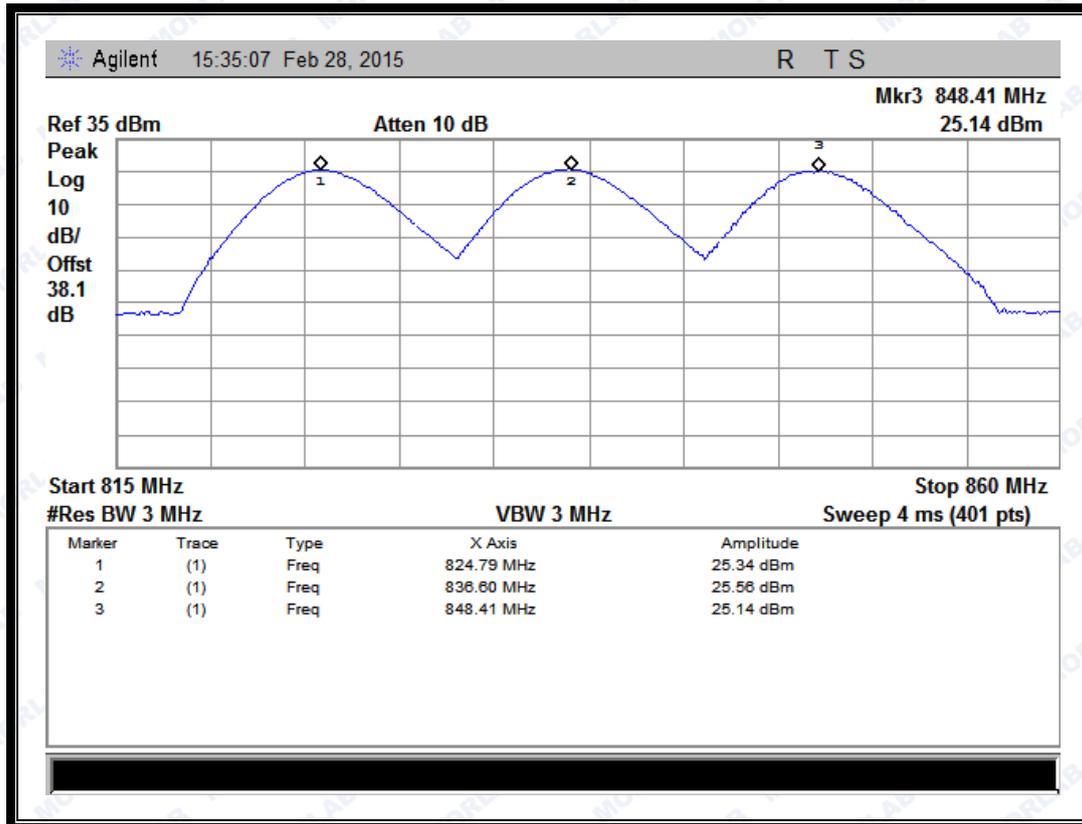
$A_{\text{TOT}}$  is total correction factor including cable loss and substitution correction

During the test, the data of  $A_{\text{TOT}}$  was added in the Test Spectrum Analyze, so Spectrum Analyze reading is the final values which contain the data of  $A_{\text{TOT}}$ .

1. CDMA Model Test Verdict:

No.	Channel	Frequency (MHz)	Measured ERP/EIRP		Limit	
			dBm	W	dBm	W
CDMA 800MHz	1013	824.7	25.34	0.244343	38.5	7
	384	836.52	25.56	0.274157		
	777	848.31	25.14	0.278612		

2. Test Plots:



(Plot A: CDMA 800MHz Channel = 1013,384, 777)

## 2.7 Radiated Out of Band Emissions

### 2.7.1 Requirement

According to FCC section 22.917(a) and section 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.

The spurious emission with frequency band 1900 according to FCC section 2.1057.

### 2.7.2 Test Description

See section 2.6.2 of this report.

Equipment List:

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
System Simulator	Agilent	E5515C	GB43130131	2014.02.26	2015.02.25
Spectrum Analyzer	Agilent	E7405A	US44210471	2014.02.26	2015.02.25
Full-Anechoic Chamber	Albatross	9m*6m*6m	(n.a.)	2014.02.26	2015.02.25
Test Antenna - Bi-Log	Schwarzbeck	VULB 9163	9163-274	2014.02.26	2015.02.25
Test Antenna - Horn	Schwarzbeck	BBHA 9120C	9120C-384	2014.02.26	2015.02.25
Substitution Antenna	Schwarzbeck	BBHA 9120C	9120C-384	2014.02.26	2015.02.25
Pre-AMPs	Lucix	S10M100L3802	S020180L320 3	2014.02.26	2015.02.25
Notch Filter	COM-MW	ZBSF-C836.5-25-X	NA	2014.02.26	2015.02.25
Notch Filter	COM-MW	ZBSF-C1747.5-75-X2	NA	2014.02.26	2015.02.25
Notch Filter	COM-MW	ZBSF-C1880-60-X2	NA	2014.02.26	2015.02.25

**Note:** when doing measurements above 1GHz, the EUT has been within the 3dB cone width of the horn antenna during horizontal antenna.

### 2.7.3 Test Result

The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. The lowest, middle and highest channels are tested to verify the out of band emissions.

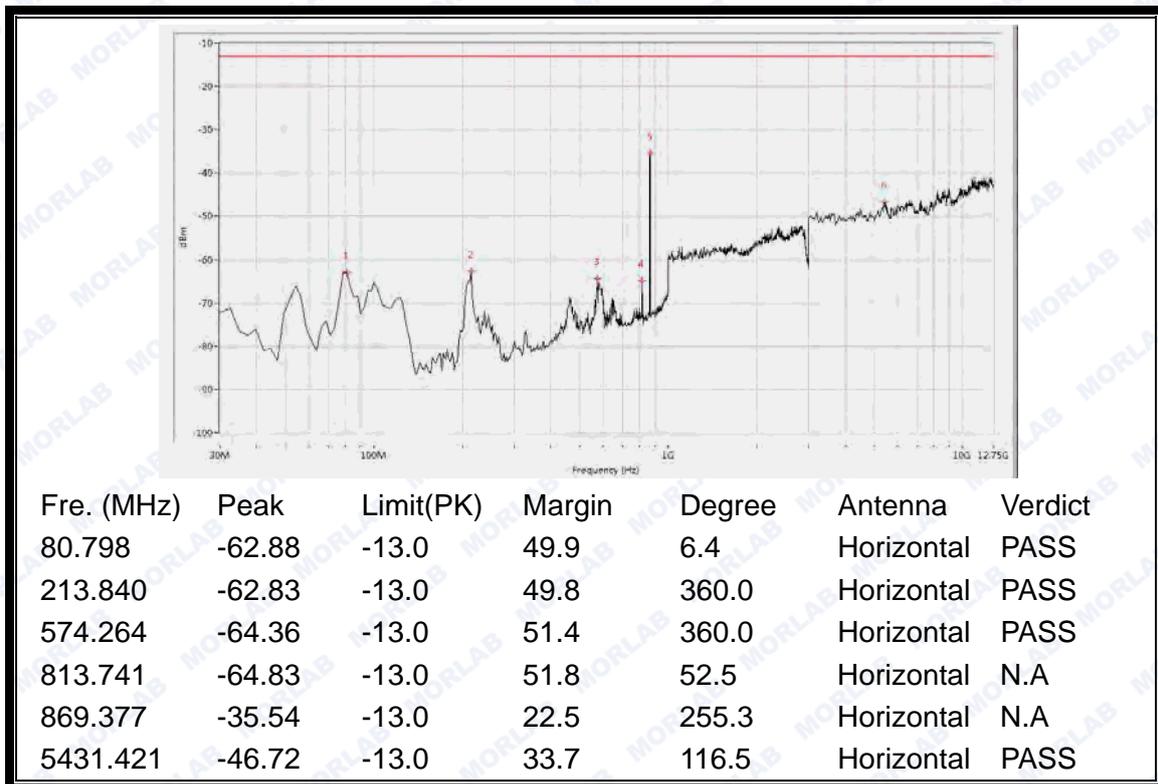
1. Test Verdict:

Band	Channel	Frequency (MHz)	Measured Max. Spurious Emission (dBm)		Refer to Plot	Limit (dBm)	Verdict
			Test Antenna Horizontal	Test Antenna Vertical			
CDMA 800MHz	1013	1649	< -25	< -25	Plot A.1/A.2	-13	PASS
	384	1673	< -25	< -25	Plot B.1/B.2		PASS
	777	1696	< -25	< -25	Plot C.1/C.2		PASS

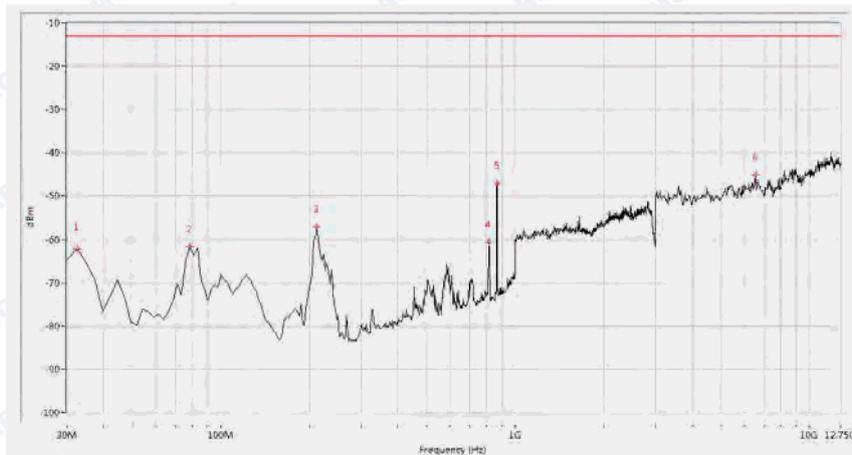
2. Test Plots for the Whole Measurement Frequency Range:

Note1: the power of the EUT transmitting frequency should be ignored.

Note2: All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

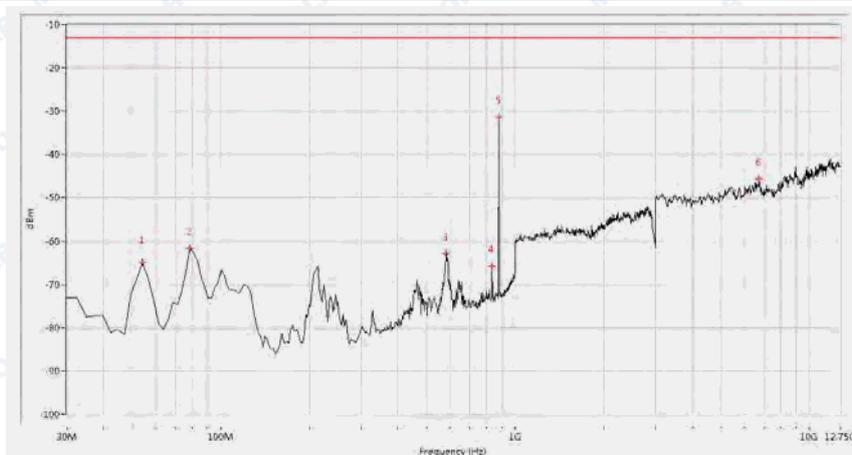


(Plot A.1: CDMA 800MHz Channel = 1013, Test Antenna Horizontal)



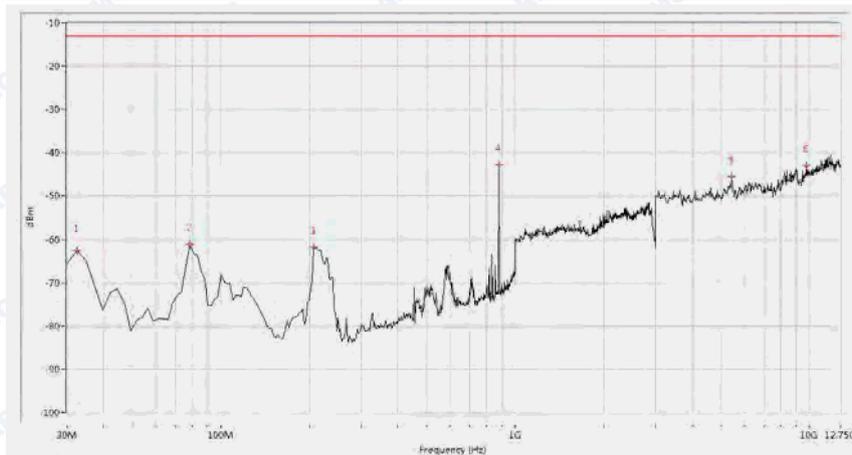
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
32.419	-62.27	-13.0	49.3	324.9	Vertical	PASS
78.379	-61.73	-13.0	48.7	346.1	Vertical	PASS
211.421	-57.00	-13.0	44.0	358.8	Vertical	PASS
811.322	-60.60	-13.0	47.6	51.0	Vertical	N.A
869.377	-47.04	-13.0	34.0	324.9	Vertical	N.A
6549.875	-45.13	-13.0	32.1	85.6	Vertical	PASS

(Plot A.2: CDMA 800MHz Channel = 1013, Test Antenna Vertical)



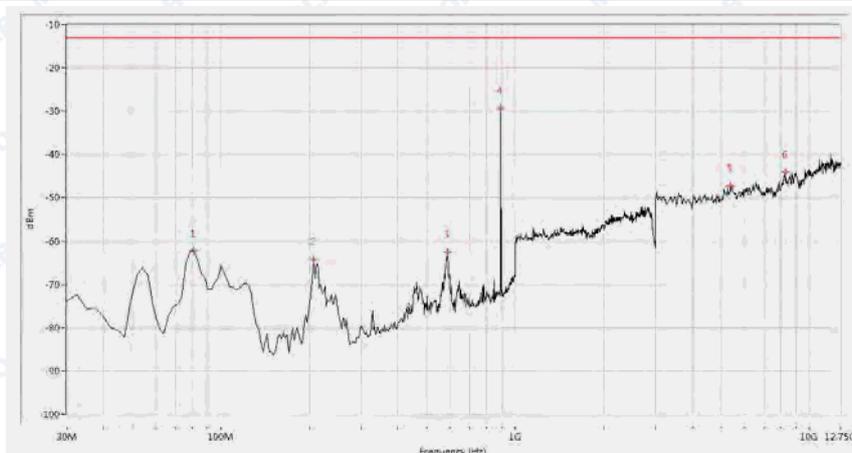
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
54.190	-64.95	-13.0	52.0	359.5	Horizontal	PASS
78.379	-61.73	-13.0	48.7	232.6	Horizontal	PASS
581.521	-62.97	-13.0	50.0	307.0	Horizontal	PASS
835.511	-65.73	-13.0	52.7	52.9	Horizontal	N.A
879.052	-31.40	-13.0	18.4	156.0	Horizontal	N.A
6744.389	-45.70	-13.0	32.7	199.9	Horizontal	PASS

(Plot A.3: CDMA 800MHz Channel = 384,, Test Antenna Horizontal)



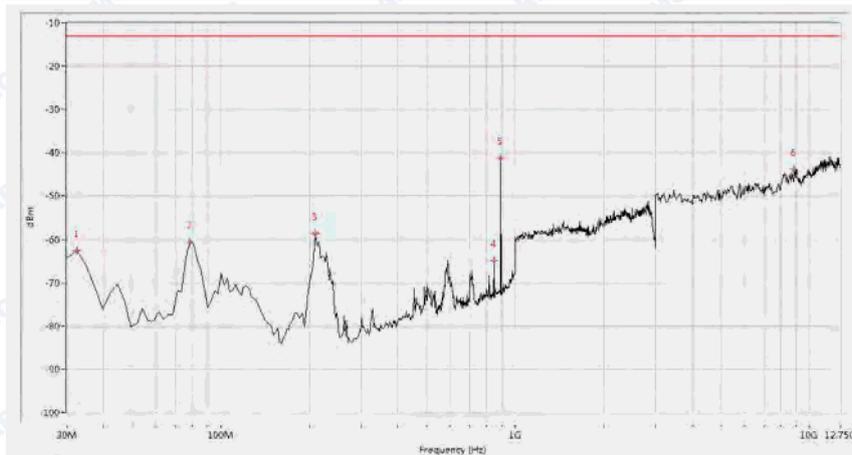
32.419	-62.55	-13.0	49.6	334.3	Vertical	PASS
78.379	-61.15	-13.0	48.1	93.0	Vertical	PASS
206.584	-61.78	-13.0	48.8	224.1	Vertical	PASS
879.052	-42.83	-13.0	29.8	272.1	Vertical	N.A
5431.421	-45.47	-13.0	32.5	147.5	Vertical	PASS
9759.352	-42.98	-13.0	30.0	241.3	Vertical	PASS
32.419	-62.55	-13.0	49.6	334.3	Vertical	PASS

(Plot A.4: CDMA 800MHz Channel = 384,, Test Antenna Vertical)



Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
80.798	-62.23	-13.0	49.2	112.9	Horizontal	PASS
206.584	-64.17	-13.0	51.2	360.0	Horizontal	PASS
588.778	-62.52	-13.0	49.5	337.2	Horizontal	PASS
891.147	-29.22	-13.0	16.2	123.3	Horizontal	N.A
5382.793	-47.31	-13.0	34.3	60.7	Horizontal	PASS
8251.870	-44.08	-13.0	31.1	303.0	Horizontal	PASS

(Plot A.5: CDMA 800MHz Channel = 777, Test Antenna Horizontal)



Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
32.419	-62.63	-13.0	49.6	41.3	Vertical	PASS
78.379	-60.52	-13.0	47.5	120.6	Vertical	PASS
209.002	-58.57	-13.0	45.6	30.9	Vertical	PASS
847.606	-64.92	-13.0	51.9	62.5	Vertical	N.A
891.147	-41.15	-13.0	28.2	263.9	Vertical	N.A
8859.726	-43.94	-13.0	30.9	347.3	Vertical	PASS

(Plot A.6: CDMA 800MHz Channel = 777, Test Antenna Vertical)

\*\* END OF REPORT \*\*