



FCC RF Test Report

APPLICANT : ZTE CORPORATION
EQUIPMENT : CDMA/LTE Dual-Mode Digital Mobile Phone
BRAND NAME : ZTE
MODEL NAME : ZTE N9511
FCC ID : SRQ-ZTEN9511
STANDARD : FCC 47 CFR Part 2, 22(H), 24(E), 27(L)
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)

The product was received on Jun. 05, 2013 and completely tested on Jul. 24, 2013. We, SPORTON INTERNATIONAL (KUNSHAN) INC., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI / TIA / EIA-603-C-2004 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL (KUNSHAN) INC., the test report shall not be reproduced except in full.

Reviewed by: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager



SPORTON INTERNATIONAL (KUNSHAN) INC.
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SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	§2.1046	Conducted Output Power	N/A	PASS	-
3.2	§24.232(d) §27.50(d)(5)	Peak-to-Average Ratio	< 13 dB	PASS	-
3.3	§22.913(a)(2)	Effective Radiated Power	< 7 Watts	PASS	-
3.3	§24.232(c) §27.50(d)(4)	Equivalent Isotropic Radiated Power	< 2 Watts	PASS	-
3.4	§2.1049 §22.917(a) §24.238(b) §27.53(g)	Occupied Bandwidth	N/A	PASS	-
3.5	§2.1051 §22.917(a) §24.238(a) §27.53(g)	Band Edge Measurement	< 43+10log10(P[Watts])	PASS	-
3.6	§2.1051 §22.917(a) §24.238(a) §27.53(g)	Conducted Emission	< 43+10log10(P[Watts])	PASS	-
3.7	§2.1053 §22.917(a) §24.238(a) §27.53(g)	Field Strength of Spurious Radiation	< 43+10log10(P[Watts])	PASS	Under limit 33.87 dB at 7520.000 MHz
3.8	§2.1055 §22.355 §24.235 §27.54	Frequency Stability for Temperature & Voltage	< 2.5 ppm	PASS	-



1 General Description

1.1 Applicant

ZTE CORPORATION

ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong, 518057, P.R.China

1.2 Manufacturer

ZTE CORPORATION

ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong, 518057, P.R.China

1.3 Feature of Equipment Under Test

Product Feature	
Equipment	CDMA/LTE Dual-Mode Digital Mobile Phone
Brand Name	ZTE
Model Name	ZTE N9511
FCC ID	SRQ-ZTEN9511
EUT supports Radios application	CDMA/EV-DO/LTE/WLAN 11bgn / Bluetooth 2.1/3.0/4.0
HW Version	cyfA
SW Version	N9511V1.0.0B01
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Product Specification of Equipment Under Test

Product Specification subjective to this standard	
Tx Frequency	CDMA2000 BC0: 824.70 MHz ~ 848.31 MHz CDMA2000 BC1: 1851.25 MHz ~ 1908.75 MHz CDMA2000 BC15 : 1711.25 ~ 1753.75 MHz
Rx Frequency	CDMA2000 BC0: 869.70 MHz ~ 893.31 MHz CDMA2000 BC1: 1931.25 MHz ~ 1988.75 MHz CDMA2000 BC15 : 2111.25 ~ 2153.75 MHz
Maximum Output Power to Antenna	CDMA2000 BC0 : 24.12 dBm CDMA2000 BC1 : 24.15 dBm CDMA2000 BC15 : 24.60 dBm
Antenna Type	PIFA Antenna
Antenna Gain	-4dBi
Type of Modulation	CDMA2000 : QPSK CDMA2000 1xEV-DO : QPSK/8PSK

1.5 Modification of EUT

No modifications are made to the EUT during all test items.

1.6 Maximum ERP/EIRP Power, Frequency Tolerance, and Emission Designator

FCC Rule	System	Type of Modulation	Maximum ERP/EIRP (W)	Frequency Tolerance (% , Hz, ppm)	Emission Designator
Part 22	CDMA2000 BC0 1xRTT	QPSK	0.1303	0.03 ppm	1M28F9W
Part 24	CDMA2000 BC1 1xRTT	QPSK	0.5795	0.02 ppm	1M28F9W
Part 27	CDMA2000 BC15 1xRTT	QPSK	0.4286	0.02 ppm	1M28F9W

1.7 Testing Site

Test Site	SPORTON INTERNATIONAL (KUNSHAN) INC.			
Test Site Location	No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P.R.C. TEL: +86-0512-5790-0158 FAX: +86-0512-5790-0958			
Test Site No.	Sporton Site No.			FCC/IC Registration No.
	TH01-KS	03CH01-KS	OTA01-KS	149928/4086E-1

1.8 Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR Part 2, 22(H), 24(E), 27(L)
- ANSI / TIA / EIA-603-C-2004
- FCC KDB 971168 D01 Power Meas. License Digital Systems v02

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

2.1 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. (Z plane for 22H, X plane for 24E and 27L)

Frequency range investigated for radiated emission is as follows:

1. 30 MHz to 9000 MHz for CDMA2000 BC0.
2. 30 MHz to 19000 MHz for CDMA2000 BC1.
3. 30 MHz to 18000 MHz for CDMA2000 BC15.

Test Modes		
Band	Radiated TCs	Conducted TCs
CDMA2000 BC0	■ 1xRTT Link Mode	■ 1xRTT Link Mode
CDMA2000 BC1	■ 1xRTT Link Mode	■ 1xRTT Link Mode
CDMA2000 BC15	■ 1xRTT Link Mode	■ 1xRTT Link Mode

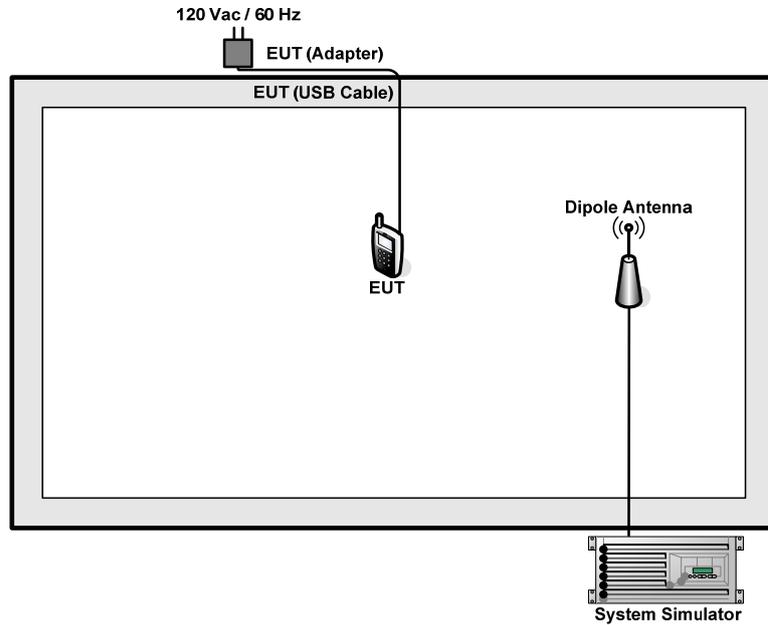
Note:

1. The maximum RF output power levels are 1xRTT RC1+SO55 mode for CDMA2000 BC0, 1xRTT RC1+SO55 mode for CDMA2000 BC1, and 1xRTT RC1+SO55 mode for CDMA2000 BC15 on QPSK link; only these modes were used for all tests.
2. Because there are individual antennas for each CDMA2000, WLAN, and Bluetooth, the co-location test modes are not required.

The conducted power tables are as follows:

Conducted Power (*Unit: dBm)									
Band	CDMA2000 BC0			CDMA2000 BC1			CDMA2000 BC15		
Channel	1013	384	777	25	600	1175	25	425	875
Frequency	824.7	836.52	848.31	1851.25	1880	1908.75	1711.25	1731.25	1753.75
1xRTT RC1+SO55	24.11	24.12	24.03	24.15	24.07	23.82	24.55	24.60	24.43
1xRTT RC3+SO55	24.08	24.09	24.04	24.14	24.03	23.77	24.52	24.56	24.41
1xRTT RC3 SO32(+ F-SCH)	24.07	24.07	24.03	24.09	23.95	23.72	24.48	24.51	24.36
1xRTT RC3 SO32(+SCH)	24.05	24.06	23.98	24.09	23.96	23.71	24.48	24.52	24.36
1xEV-DO RTAP 153.6Kbps	24.00	24.00	23.99	23.98	23.91	23.66	24.36	24.42	24.28
1xEV-DO RETAP 4096Bits	23.89	23.92	23.90	23.94	23.82	23.57	24.36	24.40	24.26

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m
2.	DC Power Supply	GWINSTEK	GPS-3030D	N/A	N/A	Unshielded, 1.8 m

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example :

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.2 dB and 10dB attenuator.

$$\begin{aligned}
 \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\
 &= 5.2 + 10 = 15.2 \text{ (dB)}
 \end{aligned}$$

3 Test Result

3.1 Conducted Output Power Measurement

3.1.1 Description of the Conducted Output Power Measurement

A base station simulator was used to establish communication with the EUT. Its parameters were set to transmit the maximum power on the EUT. The measured power in the radio frequency on the transmitter output terminals shall be reported.

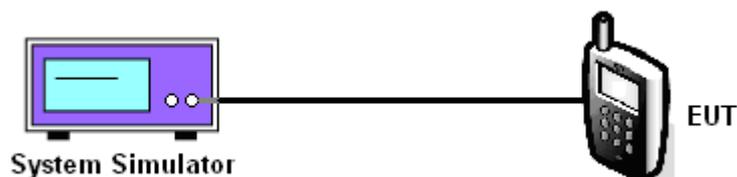
3.1.2 Measuring Instruments

See list of measuring instruments of this test report.

3.1.3 Test Procedures

1. The transmitter output port was connected to base station.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set EUT at maximum power through base station.
4. Select lowest, middle, and highest channels for each band and different modulation.
5. Measure the maximum burst average power for GSM and maximum average power for other modulation signal.

3.1.4 Test Setup



3.1.5 Test Result of Conducted Output Power

CDMA2000 BC0			
Test Mode	CDMA 2000 1xRTT		
Test Status	RC1+SO55		
Channel	1013 (Low)	384 (Mid)	777 (High)
Frequency (MHz)	824.70	836.52	848.31
Conducted Power (dBm)	24.11	24.12	24.03
Conducted Power (Watts)	0.26	0.26	0.25

CDMA2000 BC1			
Test Mode	CDMA 2000 1xRTT		
Test Status	RC1+SO55		
Channel	25 (Low)	600 (Mid)	1175 (High)
Frequency (MHz)	1851.25	1880.00	1908.75
Conducted Power (dBm)	24.15	24.07	23.82
Conducted Power (Watts)	0.26	0.26	0.24

CDMA2000 BC15			
Test Mode	CDMA 2000 1xRTT		
Test Status	RC1+SO55		
Channel	25 (Low)	425 (Mid)	875 (High)
Frequency (MHz)	1711.25	1731.25	1753.75
Conducted Power (dBm)	24.55	24.60	24.43
Conducted Power (Watts)	0.29	0.29	0.28

Note: maximum average power for CDMA2000.

3.2 Peak-to-Average Ratio

3.2.1 Description of the PAR Measurement

The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

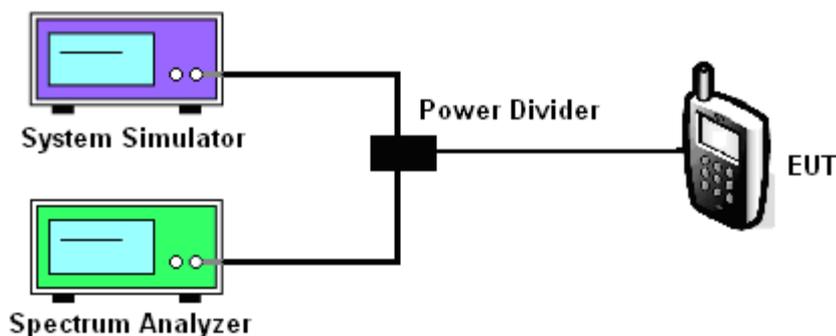
3.2.2 Measuring Instruments

See list of measuring instruments of this test report.

3.2.3 Test Procedures

1. The EUT was connected to Spectrum Analyzer and System Simulator via power divider.
2. For CDMA operating modes:
 - a. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
 - b. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
3. Record the deviation as Peak to Average Ratio.

3.2.4 Test Setup





3.2.5 Test Result of Peak-to-Average Ratio

CDMA2000 BC1			
Modes	CDMA 2000 1xRTT		
Test Status	RC1+SO55		
Channel	25 (Low)	600 (Mid)	1175 (High)
Frequency (MHz)	1851.25	1880.00	1908.75
Peak-to-Average Ratio (dB)	3.64	3.96	3.88

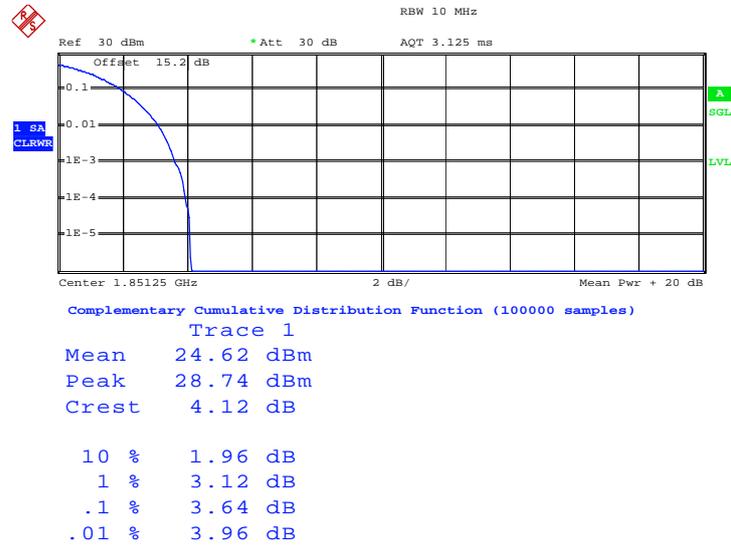
CDMA2000 BC15			
Modes	CDMA 2000 1xRTT		
Test Status	RC1+SO55		
Channel	25 (Low)	425 (Mid)	875 (High)
Frequency (MHz)	1711.25	1731.25	1753.75
Peak-to-Average Ratio (dB)	3.72	3.72	3.52



3.2.6 Test Result (Plots) of Peak-to-Average Ratio

Band :	CDMA2000 BC1	Test Mode :	1xRTT Link (QPSK)
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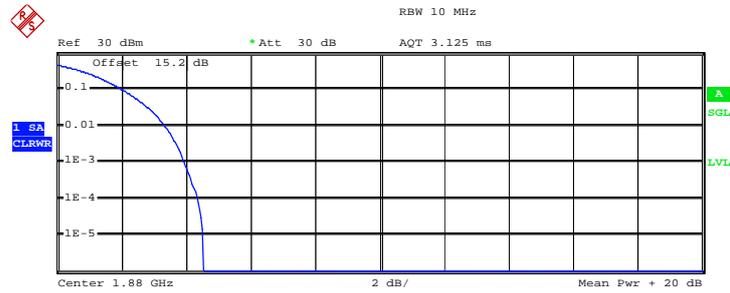
Peak-to-Average Ratio on Channel 25 (1851.25 MHz)



Date: 7.JUN.2013 17:00:32



Peak-to-Average Ratio on Channel 600 (1880 MHz)



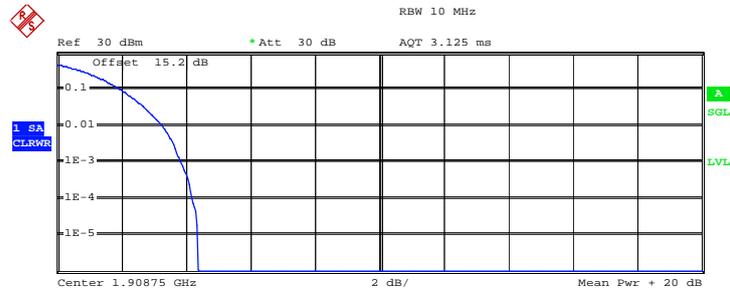
Complementary Cumulative Distribution Function (100000 samples)

Trace 1
 Mean 23.91 dBm
 Peak 28.45 dBm
 Crest 4.55 dB

10 % 2.04 dB
 1 % 3.36 dB
 .1 % 3.96 dB
 .01 % 4.36 dB

Date: 7.JUN.2013 16:59:25

Peak-to-Average Ratio on Channel 1175 (1908.75 MHz)



Complementary Cumulative Distribution Function (100000 samples)

Trace 1
 Mean 22.66 dBm
 Peak 27.04 dBm
 Crest 4.38 dB

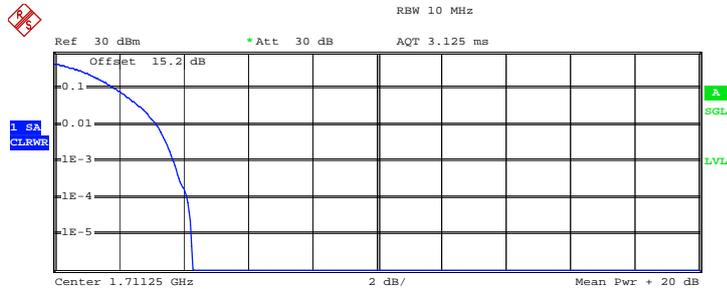
10 % 2.00 dB
 1 % 3.28 dB
 .1 % 3.88 dB
 .01 % 4.20 dB

Date: 7.JUN.2013 16:58:53



Band :	CDMA2000 BC15	Test Mode :	1xRTT Link (QPSK)
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Peak-to-Average Ratio on Channel 25 (1711.25 MHz)



Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean 19.66 dBm

Peak 23.94 dBm

Crest 4.28 dB

10 % 1.92 dB

1 % 3.20 dB

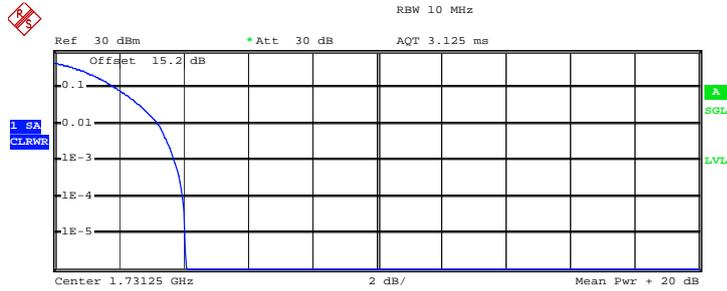
.1 % 3.72 dB

.01 % 4.12 dB

Date: 11.JUN.2013 11:12:19



Peak-to-Average Ratio on Channel 425 (1731.25 MHz)



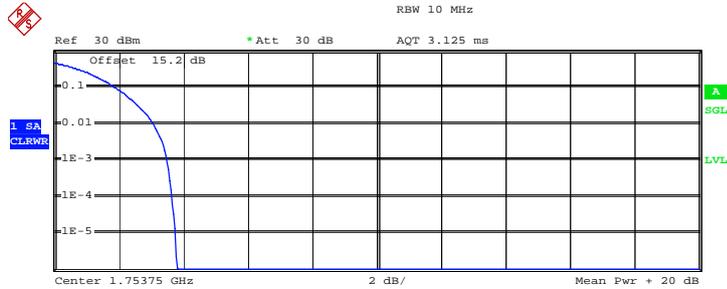
Complementary Cumulative Distribution Function (100000 samples)

Trace 1
 Mean 20.78 dBm
 Peak 24.85 dBm
 Crest 4.08 dB

10 % 1.92 dB
 1 % 3.24 dB
 .1 % 3.72 dB
 .01 % 4.00 dB

Date: 11.JUN.2013 11:10:52

Peak-to-Average Ratio on Channel 875 (1753.75 MHz)



Complementary Cumulative Distribution Function (100000 samples)

Trace 1
 Mean 21.12 dBm
 Peak 24.93 dBm
 Crest 3.80 dB

10 % 1.92 dB
 1 % 3.08 dB
 .1 % 3.52 dB
 .01 % 3.68 dB

Date: 11.JUN.2013 11:08:24

3.3 Effective Radiated Power and Effective Isotropic Radiated Power Measurement

3.3.1 Description of the ERP/EIRP Measurement

The substitution method, in ANSI / TIA / EIA-603-C-2004, was used for ERP/EIRP measurement, and the spectrum analyzer configuration follows KDB 971168 D01 Power Meas. License Digital Systems v02. The ERP of mobile transmitters must not exceed 7 Watts and the EIRP of mobile transmitters are limited to 2 Watts.

3.3.2 Measuring Instruments

See list of measuring instruments of this test report.

3.3.3 Test Procedures

1. The EUT was placed on a turntable with 1.5 meter height in a fully anechoic chamber.
2. The EUT was set at 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. GSM operating modes: Set RBW= 1MHz, VBW= 3MHz, RMS detector over burst;
UMTS operating modes: Set RBW= 100 kHz, VBW= 300 kHz, RMS detector over frame, and use channel power option with bandwidth=5MHz, per section 4.0 of KDB 971168 D01.
4. The table was rotated 360 degrees to determine the position of the highest radiated power.
5. The height of the receiving antenna is adjusted to look for the maximum ERP/EIRP.
6. Taking the record of maximum ERP/EIRP.
7. A dipole antenna was substituted in place of the EUT and was driven by a signal generator.
8. The conducted power at the terminal of the dipole antenna is measured.
9. Repeat step 3 to step 5 to get the maximum ERP/EIRP of the substitution antenna.
10. $ERP/EIRP = P_s + E_t - E_s + G_s = P_s + R_t - R_s + G_s$

P_s (dBm) : Input power to substitution antenna.

G_s (dBi or dBd) : Substitution antenna Gain.

$E_t = R_t + AF$

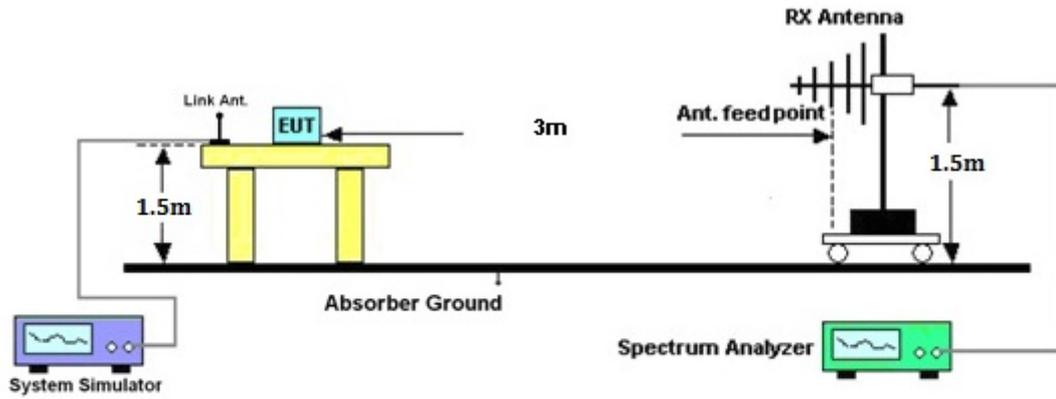
$E_s = R_s + AF$

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.

3.3.4 Test Setup





3.3.5 Test Result of ERP

CDMA2000 BC0 1xRTT_RC1+SO55 Radiated Power ERP						
Horizontal Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)
824.70	-25.96	-48.12	0.00	-1.08	21.08	0.1283
836.52	-26.35	-48.28	0.00	-0.93	21.00	0.1260
848.31	-26.44	-48.35	0.00	-0.76	21.15	0.1303
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)
824.70	-46.47	-47.97	0.00	-1.08	0.42	0.0011
836.52	-46.46	-48.01	0.00	-0.93	0.62	0.0012
848.31	-46.72	-48.05	0.00	-0.76	0.57	0.0011



3.3.6 Test Result of EIRP

CDMA2000 BC1 1xRTT_RC1+SO55 Radiated Power EIRP						
Horizontal Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1851.25	-26.55	-51.88	0.00	1.96	27.29	0.5353
1880.00	-27.54	-52.99	0.00	2.00	27.45	0.5555
1908.75	-29.22	-54.28	0.00	1.98	27.04	0.5057
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1851.25	-26.61	-52.13	0.00	1.96	27.48	0.5598
1880.00	-27.54	-53.17	0.00	2.00	27.63	0.5795
1908.75	-28.87	-54.13	0.00	1.98	27.24	0.5292



CDMA2000 BC15 1xRTT_RC1+SO55 Radiated Power EIRP						
Horizontal Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1711.25	-28.50	-51.88	0.00	1.96	25.34	0.3418
1731.25	-28.72	-52.99	0.00	2.00	26.27	0.4235
1753.75	-30.09	-54.28	0.00	1.98	26.17	0.4143
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1711.25	-28.49	-52.13	0.00	1.96	25.60	0.3632
1731.25	-28.85	-53.17	0.00	2.00	26.32	0.4286
1753.75	-30.01	-54.13	0.00	1.98	26.10	0.4073

3.4 Occupied Bandwidth and 26dB Bandwidth Measurement

3.4.1 Description of Occupied Bandwidth and 26dB Bandwidth Measurement

The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The emission bandwidth is defined as the width of the signal between two points, located at the 2 sides of the carrier frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

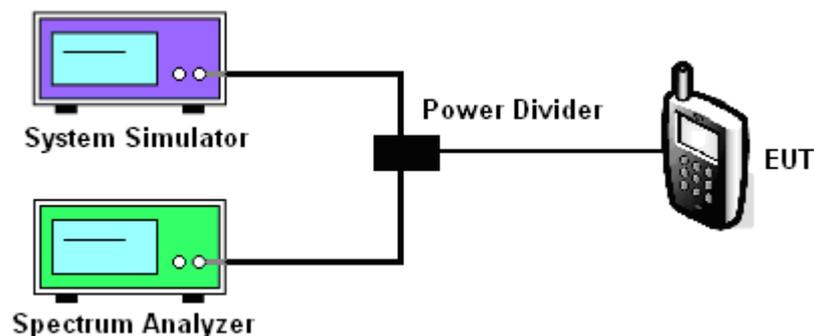
3.4.2 Measuring Instruments

See list of measuring instruments of this test report.

3.4.3 Test Procedures

1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. The 99% occupied bandwidth were measured, set RBW= 1% of span, VBW= 3*RBW, sample detector, trace maximum hold.
4. The 26dB bandwidth were measured, set RBW= 1% of EBW, VBW= 3*RBW, peak detector, trace maximum hold.

3.4.4 Test Setup





3.4.5 Test Result of Occupied Bandwidth and 26dB Bandwidth

CDMA2000 BC0			
Test Mode	CDMA 2000 1xRTT		
Test Status	RC1+SO55		
Channel	1013 (Low)	384 (Mid)	777 (High)
Frequency (MHz)	824.70	836.52	848.31
99% OBW (MHz)	1.276	1.272	1.268
26dB BW (MHz)	1.424	1.428	1.428

CDMA2000 BC1			
Test Mode	CDMA 2000 1xRTT		
Test Status	RC1+SO55		
Channel	25 (Low)	600 (Mid)	1175 (High)
Frequency (MHz)	1851.25	1880.00	1908.75
99% OBW (MHz)	1.276	1.276	1.280
26dB BW (MHz)	1.424	1.420	1.424

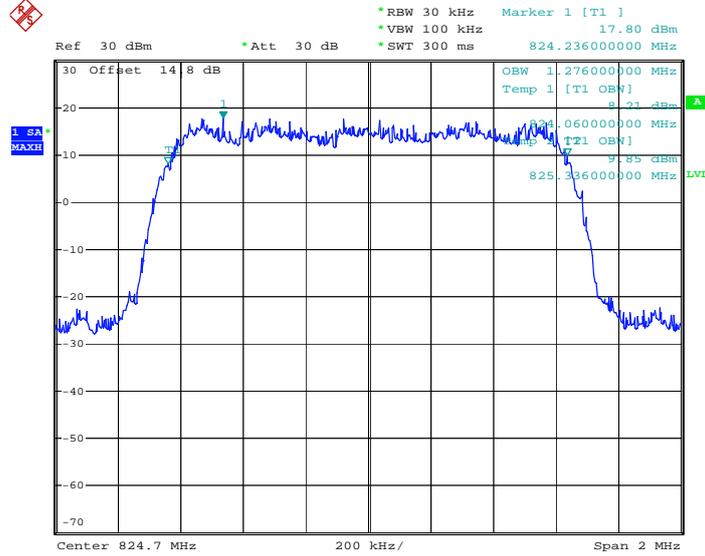
CDMA2000 BC15			
Test Mode	CDMA 2000 1xRTT		
Test Status	RC1+SO55		
Channel	25 (Low)	425 (Mid)	875 (High)
Frequency (MHz)	1711.25	1731.25	1753.75
99% OBW (MHz)	1.272	1.272	1.276
26dB BW (MHz)	1.428	1.424	1.432



3.4.6 Test Result (Plots) of Occupied Bandwidth and 26dB Bandwidth

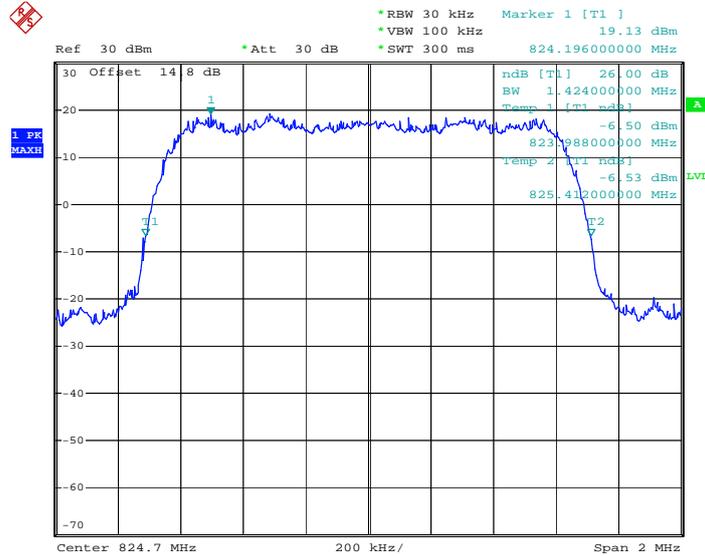
Band :	CDMA2000 BC0	Test Mode :	1xRTT_RC1+SO55 (QPSK)
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99% Occupied Bandwidth Plot on Channel 1013 (824.7 MHz)



Date: 7.JUN.2013 14:19:19

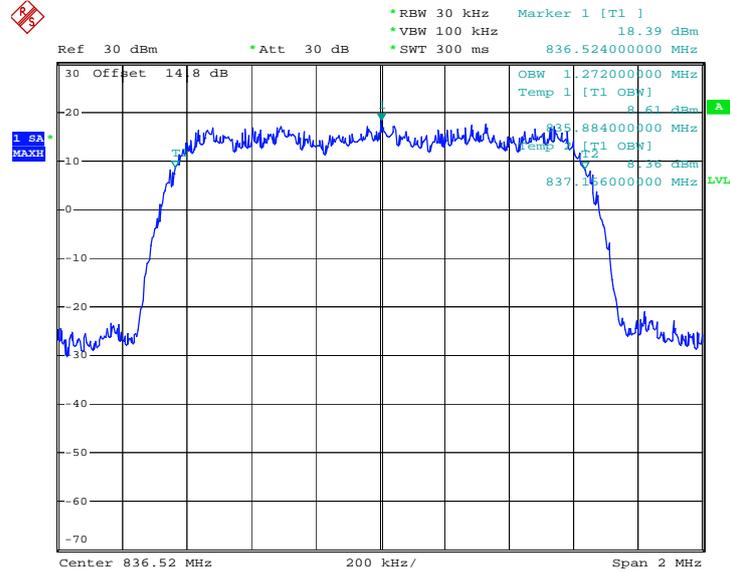
26dB Bandwidth Plot on Channel 1013 (824.7 MHz)



Date: 7.JUN.2013 14:18:16

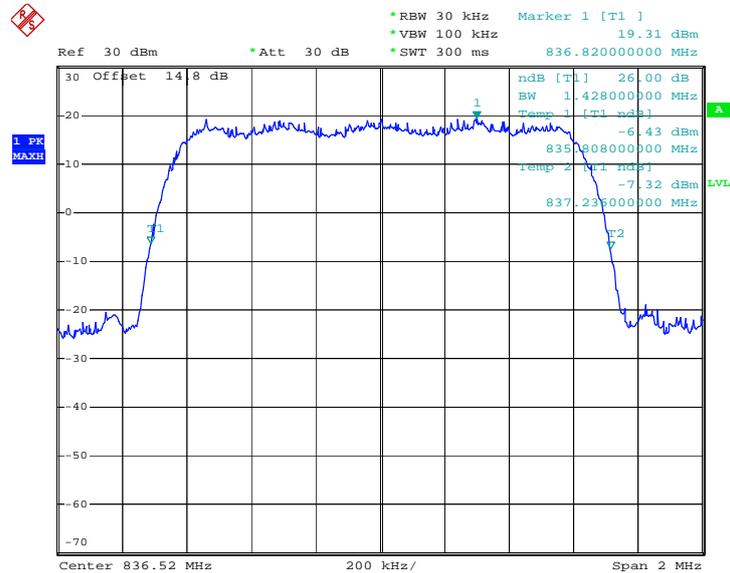


99% Occupied Bandwidth Plot on Channel 384 (836.52 MHz)



Date: 7.JUN.2013 14:23:42

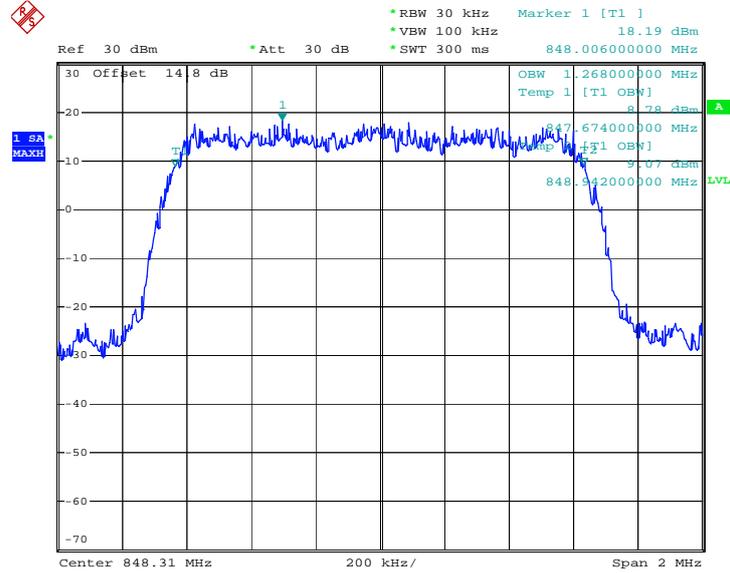
26dB Bandwidth Plot on Channel 384 (836.52 MHz)



Date: 7.JUN.2013 14:17:41

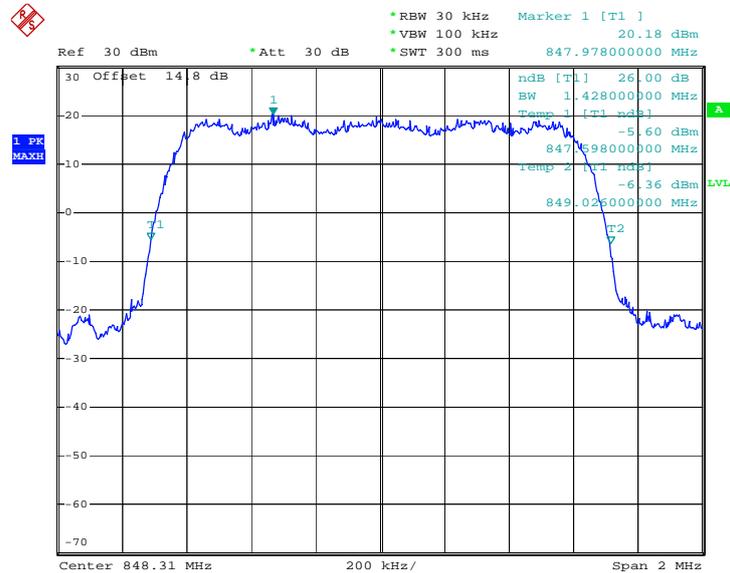


99% Occupied Bandwidth Plot on Channel 777 (848.31 MHz)



Date: 7.JUN.2013 14:22:46

26dB Bandwidth Plot on Channel 777 (848.31 MHz)

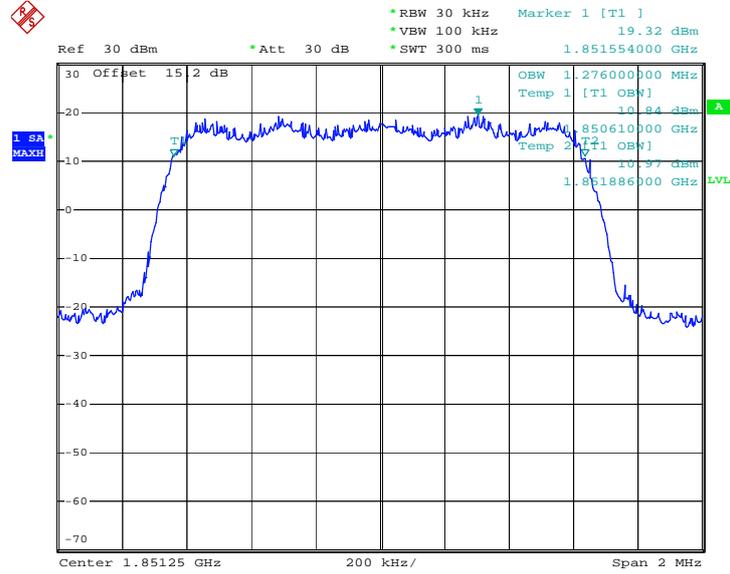


Date: 7.JUN.2013 14:17:11



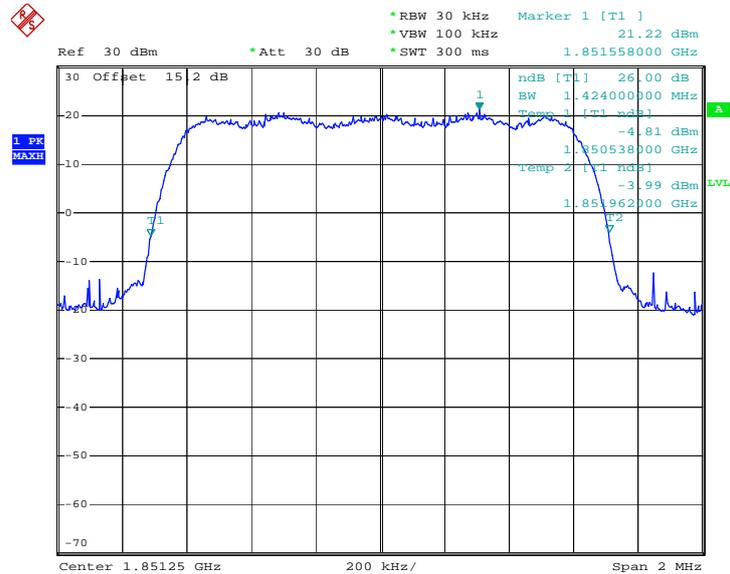
Band :	CDMA2000 BC1	Test Mode :	1xRTT_RC1+SO55 (QPSK)
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99% Occupied Bandwidth Plot on Channel 25 (1851.24 MHz)



Date: 7.JUN.2013 16:21:32

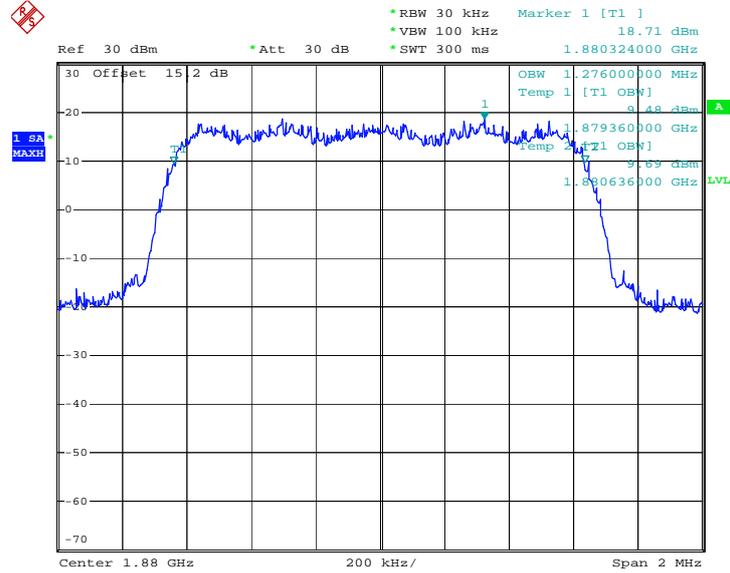
26dB Bandwidth Plot on Channel 25 (1851.24 MHz)



Date: 7.JUN.2013 16:48:37

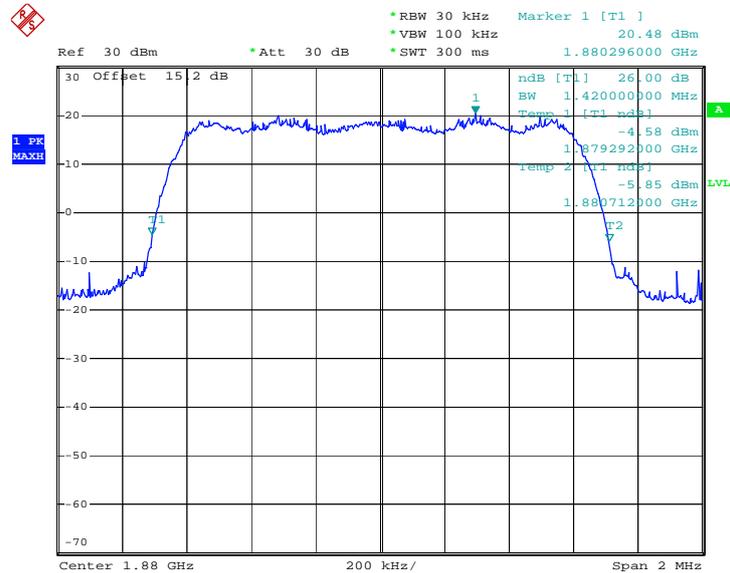


99% Occupied Bandwidth Plot on Channel 600 (1880.0 MHz)



Date: 7.JUN.2013 16:23:16

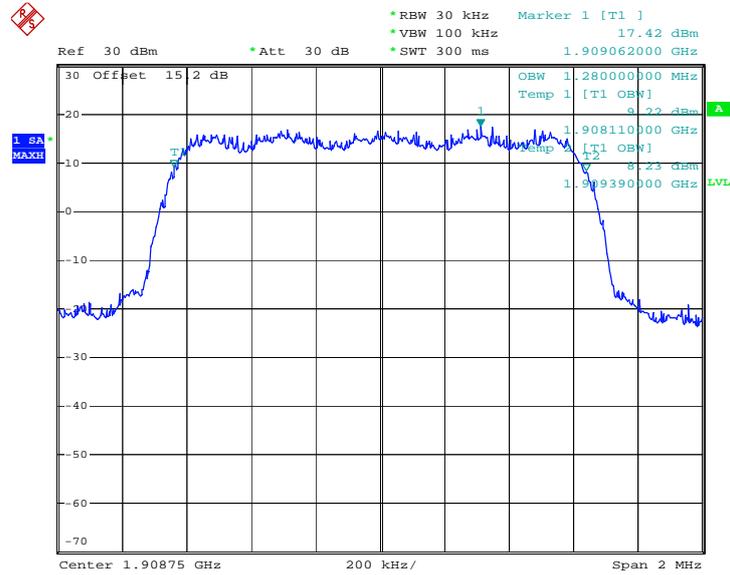
26dB Bandwidth Plot on Channel 600 (1880.0 MHz)



Date: 7.JUN.2013 16:50:10

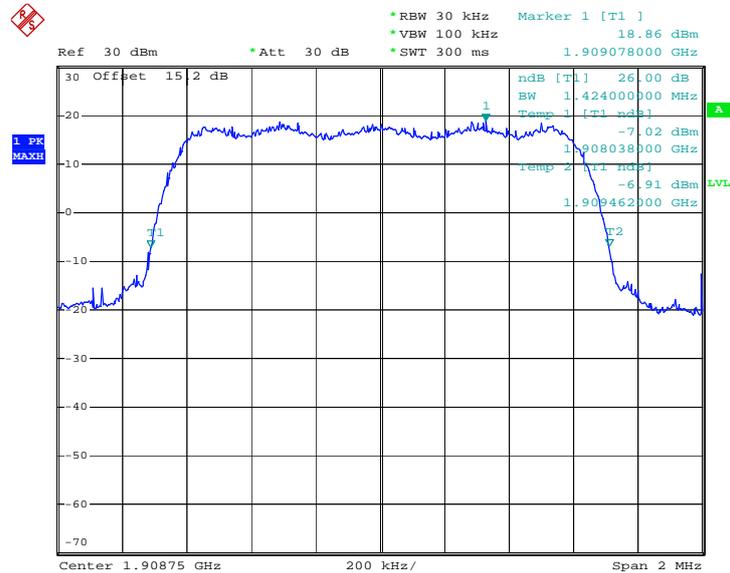


99% Occupied Bandwidth Plot on Channel 1175 (1908.75 MHz)



Date: 7.JUN.2013 16:19:14

26dB Bandwidth Plot on Channel 1175 (1908.75 MHz)

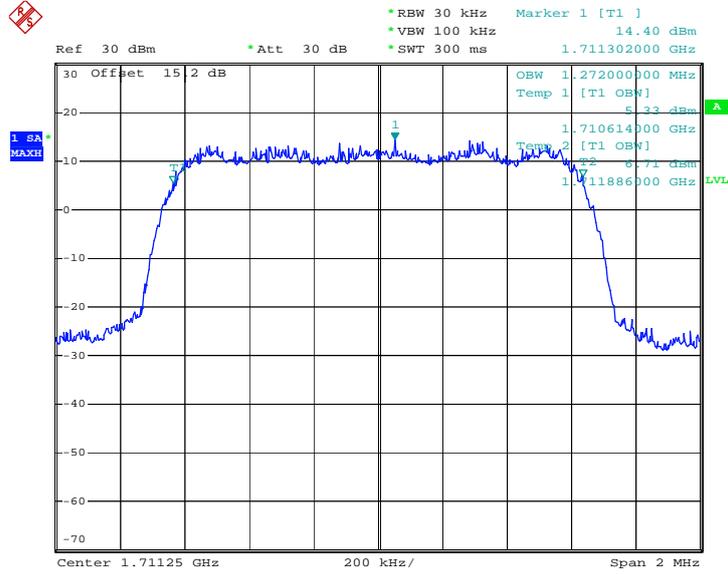


Date: 7.JUN.2013 16:51:57



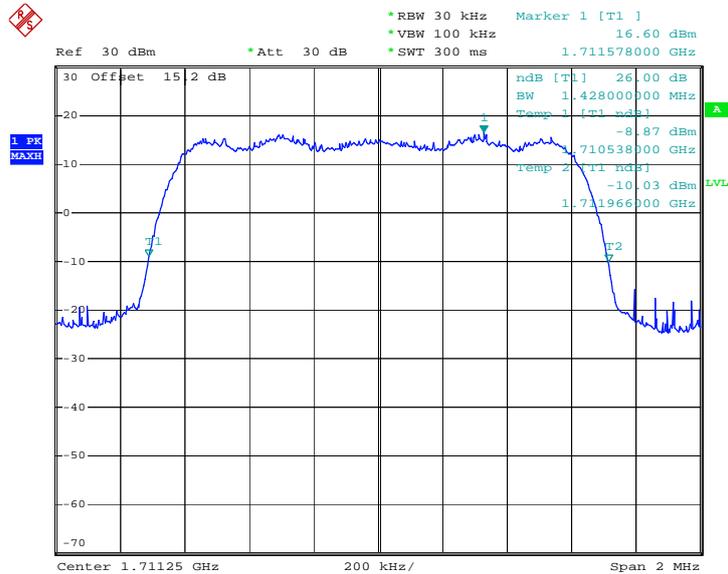
Band :	CDMA2000 BC15	Test Mode :	1xRTT_RC1+SO55 (QPSK)
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99% Occupied Bandwidth Plot on Channel 25 (1711.25 MHz)



Date: 11.JUN.2013 10:38:31

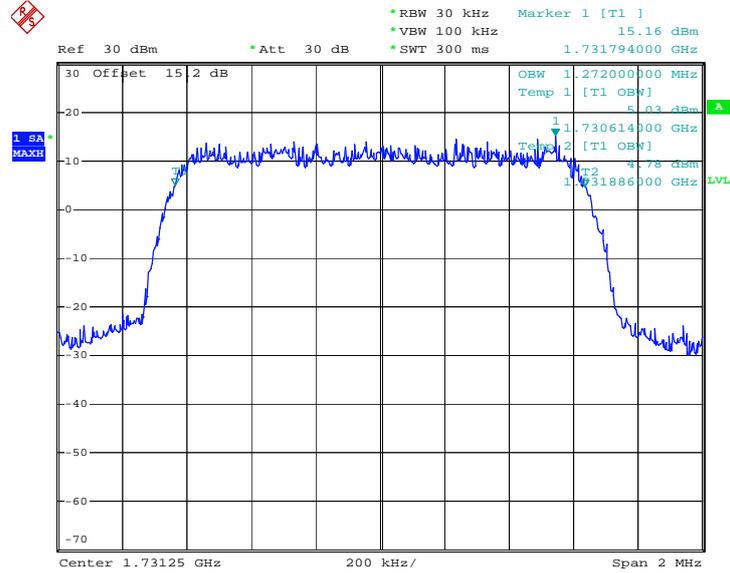
26dB Bandwidth Plot on Channel 25 (1711.25 MHz)



Date: 11.JUN.2013 10:57:31

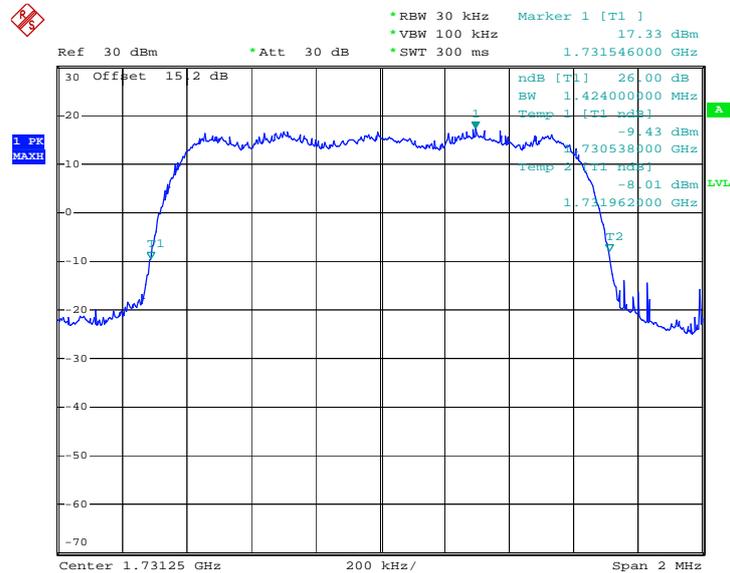


99% Occupied Bandwidth Plot on Channel 425 (1731.25 MHz)



Date: 11.JUN.2013 10:48:56

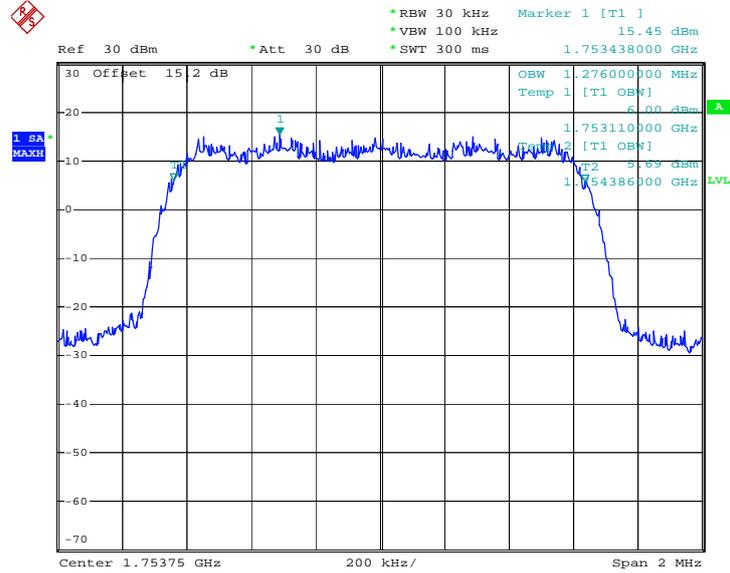
26dB Bandwidth Plot on Channel 425 (1731.25 MHz)



Date: 11.JUN.2013 10:59:38

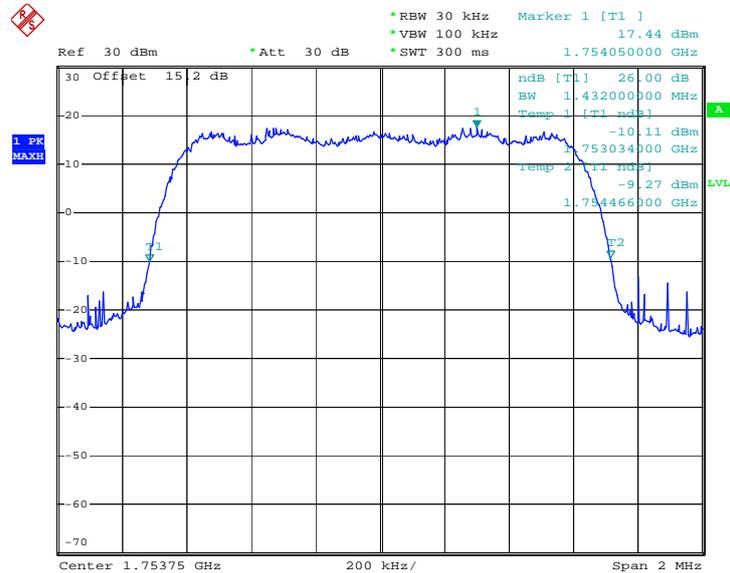


99% Occupied Bandwidth Plot on Channel 875 (1753.75 MHz)



Date: 11.JUN.2013 10:49:51

26dB Bandwidth Plot on Channel 875 (1753.75 MHz)



Date: 11.JUN.2013 11:01:49

3.5 Band Edge Measurement

3.5.1 Description of Band Edge Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

3.5.2 Measuring Instruments

See list of measuring instruments of this test report.

3.5.3 Test Procedures

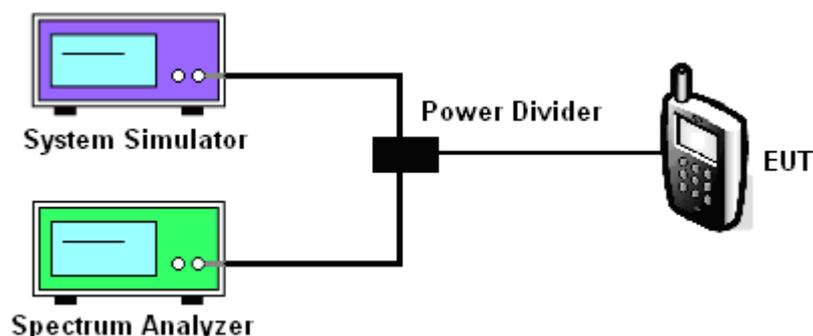
1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. The band edges of low and high channels for the highest RF powers were measured. Setting RBW as roughly $BW/100$.
4. The RBW was replaced by 10 kHz, slightly smaller than the value in (2), due to the spectrum analyzer limitation to set the exact value. A worst case correction factor of $10 \cdot \log (1\% \text{ emission-BW/measurement RBW})$ was compensated.
5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
6. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)

$$= P(W) - [43 + 10\log(P)] \text{ (dB)}$$

$$= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$$

$$= -13\text{dBm}.$$

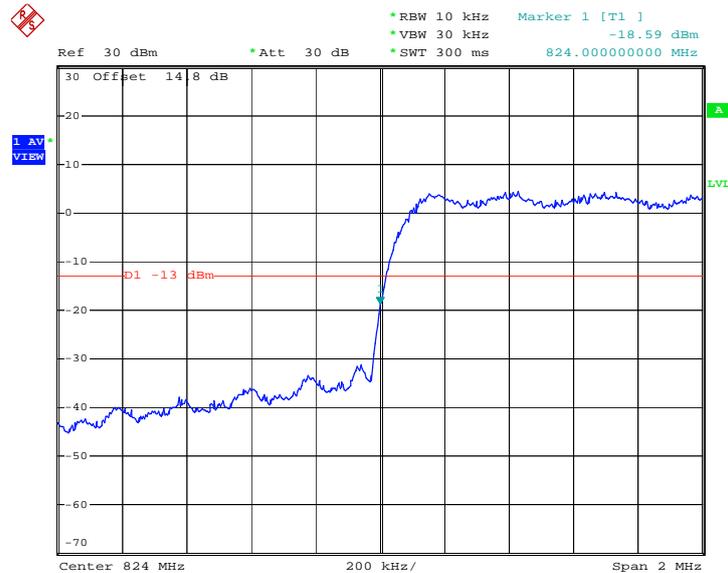
3.5.4 Test Setup



3.5.5 Test Result (Plots) of Conducted Band Edge

Band :	CDMA2000 BC0	Test Mode :	1xRTT_RC1+SO55 (QPSK)
Correction Factor :	1.55dB	Maximum 26dB Bandwidth :	1.428MHz
Band Edge :	-17.04dBm	Measurement Value :	-18.59dBm

Lower Band Edge Plot on Channel 1013 (824.7 MHz)



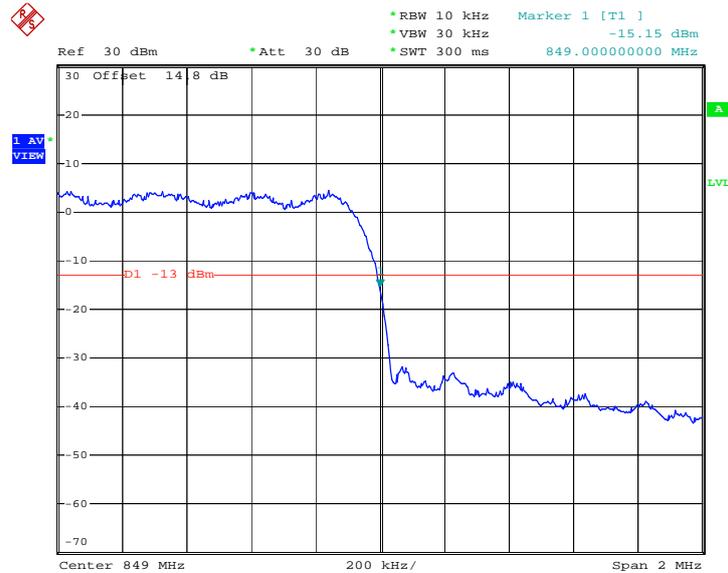
Date: 7.JUN.2013 14:13:08

1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
2. Band Edge= Measurement Value + Correction Factor(dB)



Band :	CDMA2000 BC0	Test Mode :	1xRTT_RC1+SO55 (QPSK)
Correction Factor :	1.55dB	Maximum 26dB Bandwidth:	1.428MHz
Band Edge :	-13.60dBm	Measurement Value :	-15.15dBm

Higher Band Edge Plot on Channel 777 (848.31 MHz)



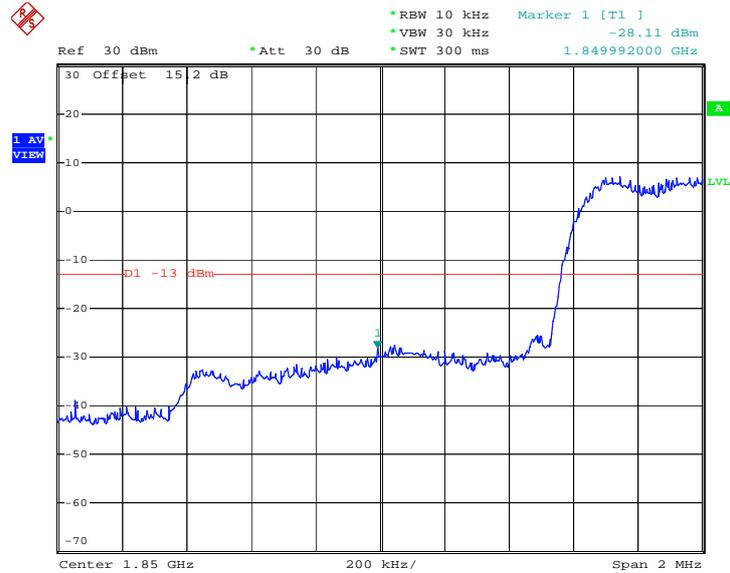
Date: 7.JUN.2013 14:11:47

1. Correction Factor(dB)= $10\log(1\% \text{ Emission BW/RBW})$
2. Band Edge= Measurement Value + Correction Factor(dB)



Band :	CDMA2000 BC1	Test Mode :	1xRTT_RC1+SO55 (QPSK)
Correction Factor :	1.54dB	Maximum 26dB Bandwidth:	1.424MHz
Band Edge :	-26.57dBm	Measurement Value :	-28.11dBm

Lower Band Edge Plot on Channel 25 (1851.25 MHz)



Date: 7.JUN.2013 14:41:52

1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
2. Band Edge= Measurement Value + Correction Factor(dB)



Band :	CDMA2000 BC1	Test Mode :	1xRTT_RC1+SO55 (QPSK)
Correction Factor :	1.54dB	Maximum 26dB Bandwidth:	1.424MHz
Band Edge :	-32.63dBm	Measurement Value :	-34.17dBm

Higher Band Edge Plot on Channel 1175 (1908.75 MHz)



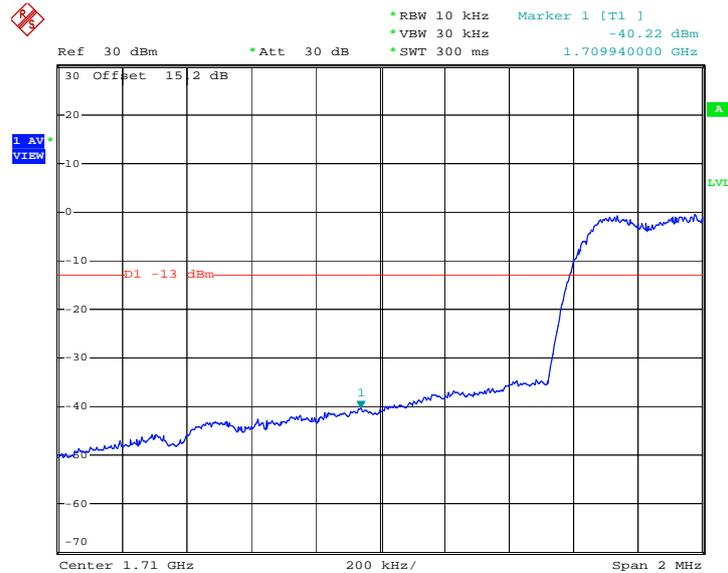
Date: 7.JUN.2013 14:44:04

1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
2. Band Edge= Measurement Value + Correction Factor(dB)



Band :	CDMA2000 BC15	Test Mode :	1xRTT_RC1+SO55 (QPSK)
Correction Factor :	1.56dB	Maximum 26dB Bandwidth:	1.432MHz
Band Edge :	-38.66dBm	Measurement Value :	-40.22dBm

Lower Band Edge Plot on Channel 25 (1711.25 MHz)



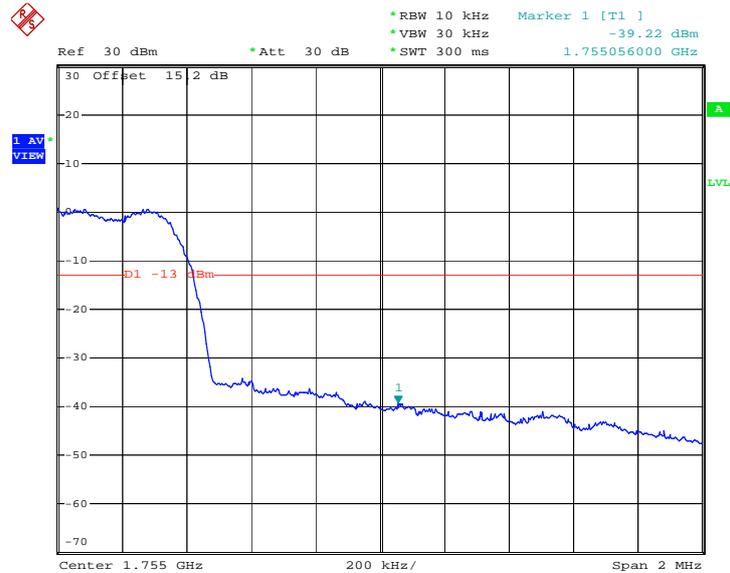
Date: 11.JUN.2013 10:22:18

1. Correction Factor(dB)= $10\log(1\% \text{ Emission BW/RBW})$
2. Band Edge= Measurement Value + Correction Factor(dB)



Band :	CDMA2000 BC15	Test Mode :	1xRTT_RC1+SO55 (QPSK)
Correction Factor :	1.56dB	Maximum 26dB Bandwidth:	1.432MHz
Band Edge :	-37.66dBm	Measurement Value :	-39.22dBm

Higher Band Edge Plot on Channel 875 (1753.75 MHz)



Date: 11.JUN.2013 10:24:17

1. Correction Factor(dB)= $10\log(1\% \text{ Emission BW/RBW})$
2. Band Edge= Measurement Value + Correction Factor(dB)

3.6 Conducted Spurious Emission Measurement

3.6.1 Description of Conducted Spurious Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

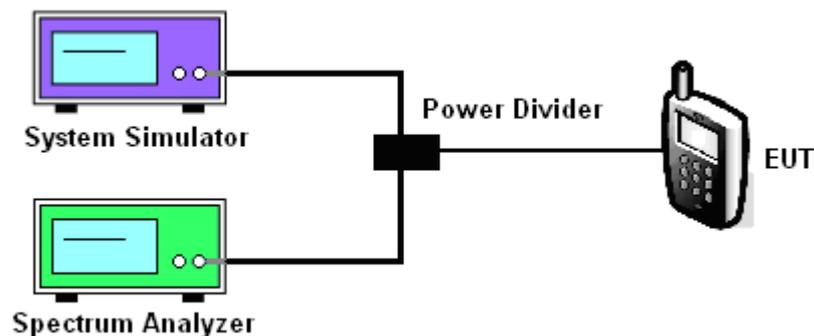
3.6.2 Measuring Instruments

See list of measuring instruments of this test report.

3.6.3 Test Procedures

1. The EUT was connected to spectrum analyzer and base station via power divider.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. The middle channel for the highest RF power within the transmitting frequency was measured.
4. The conducted spurious emission for the whole frequency range was taken.

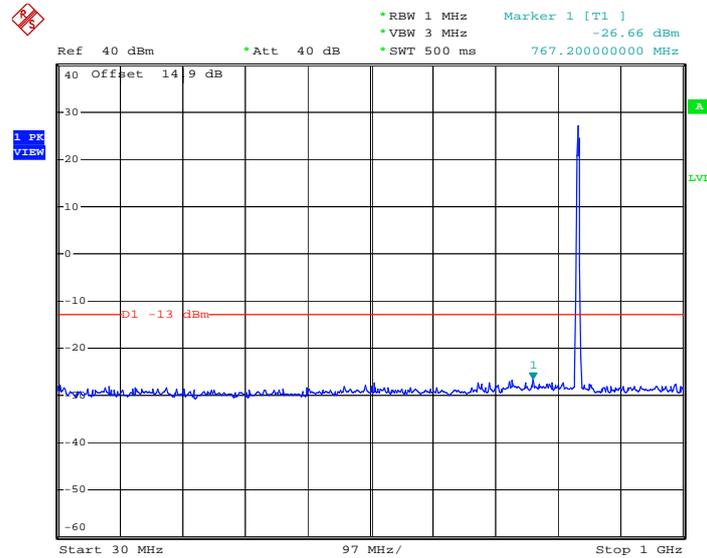
3.6.4 Test Setup



3.6.5 Test Result (Plots) of Conducted Spurious Emission

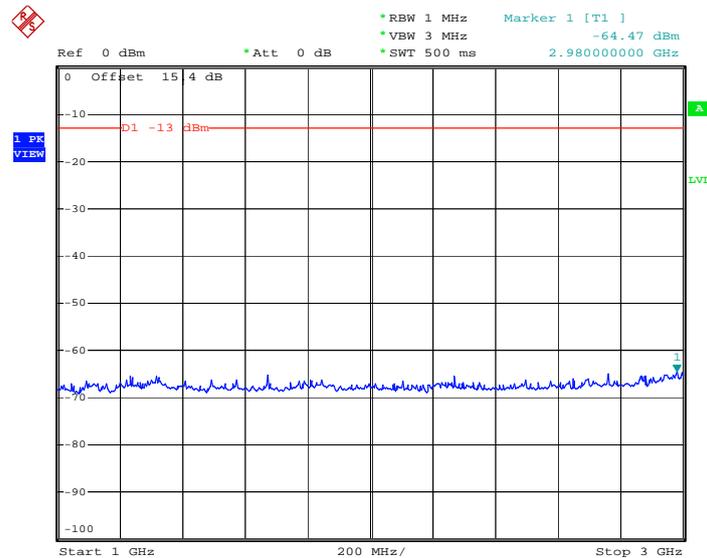
Band :	CDMA2000 BC0	Channel	384
Test Mode :	1xRTT_RC1+SO55 (QPSK)	Frequency :	836.52 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 7.JUN.2013 14:27:34

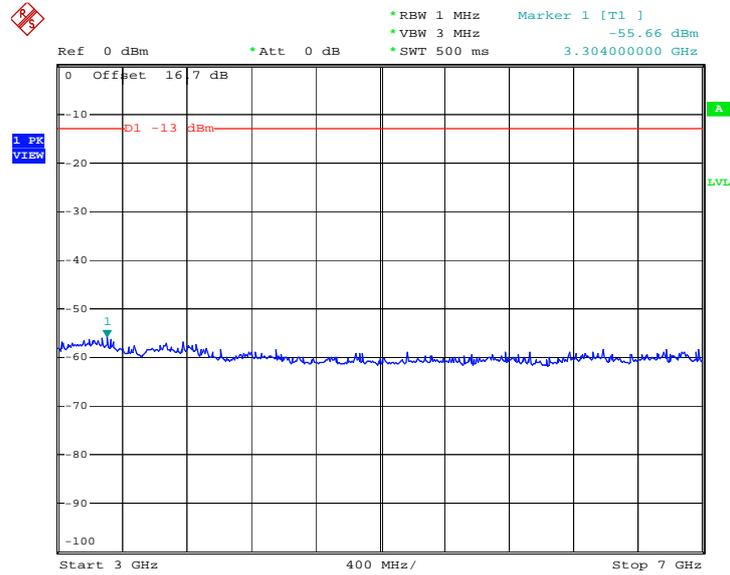
Conducted Spurious Emission Plot between 1GHz ~ 3GHz



Date: 7.JUN.2013 14:30:10

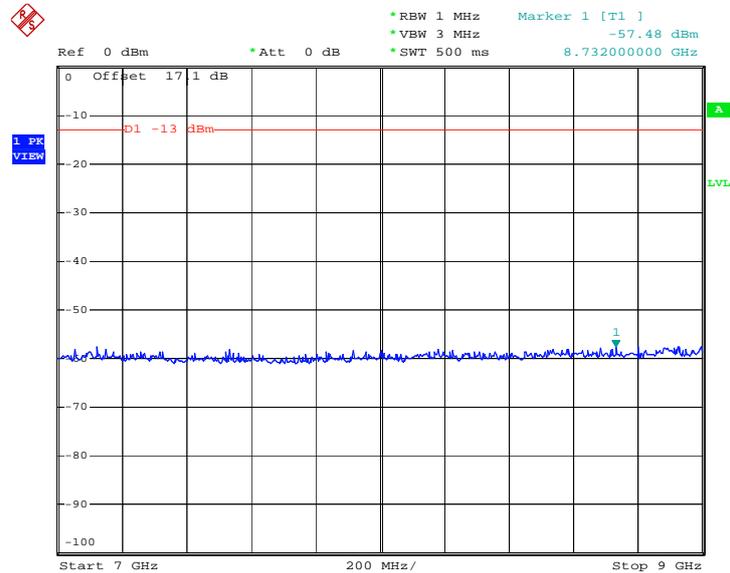


Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 7.JUN.2013 14:30:39

Conducted Spurious Emission Plot between 7GHz ~ 9GHz

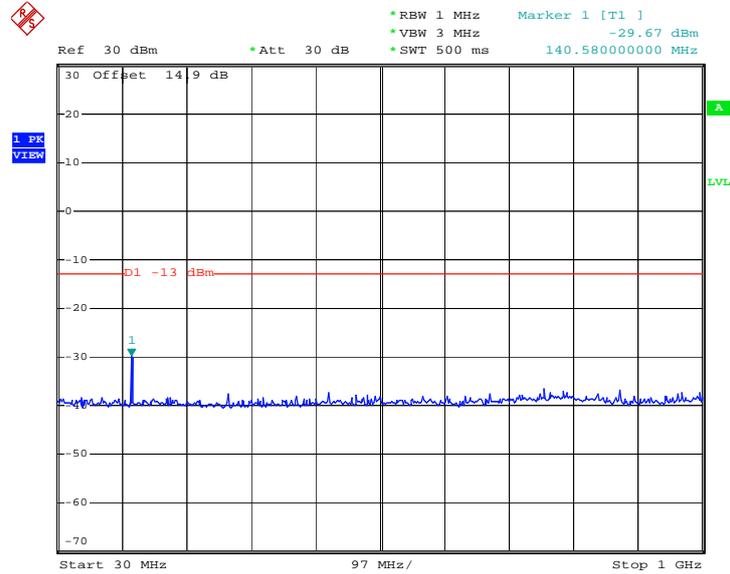


Date: 7.JUN.2013 14:31:10



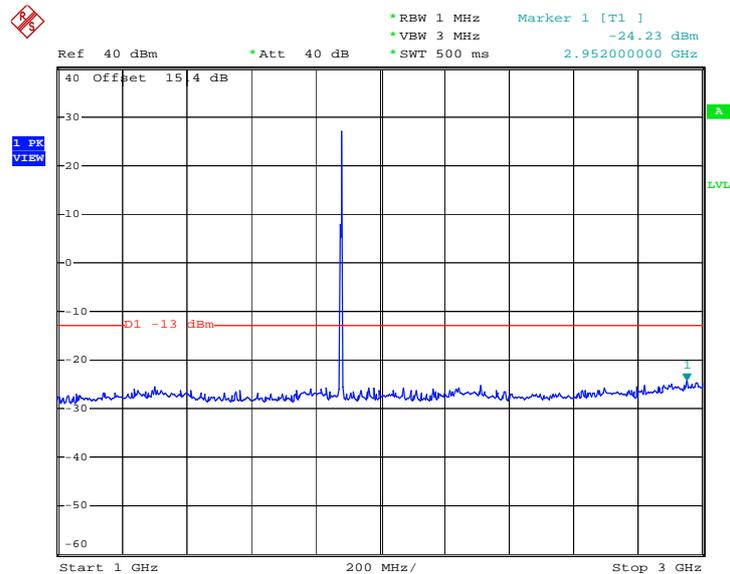
Band :	CDMA2000 BC1	Channel	600
Test Mode :	1xRTT_RC1+SO55 (QPSK)	Frequency :	1880.0 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 7.JUN.2013 17:01:22

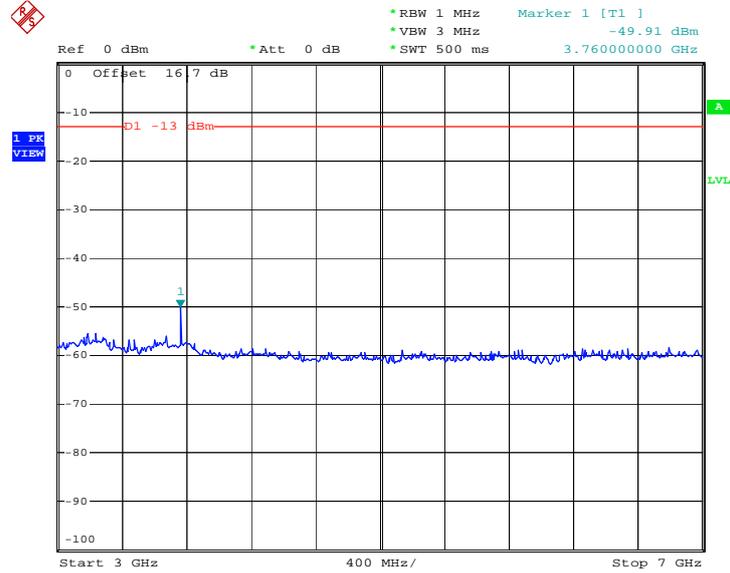
Conducted Spurious Emission Plot between 1GHz ~ 3GHz



Date: 7.JUN.2013 17:01:52

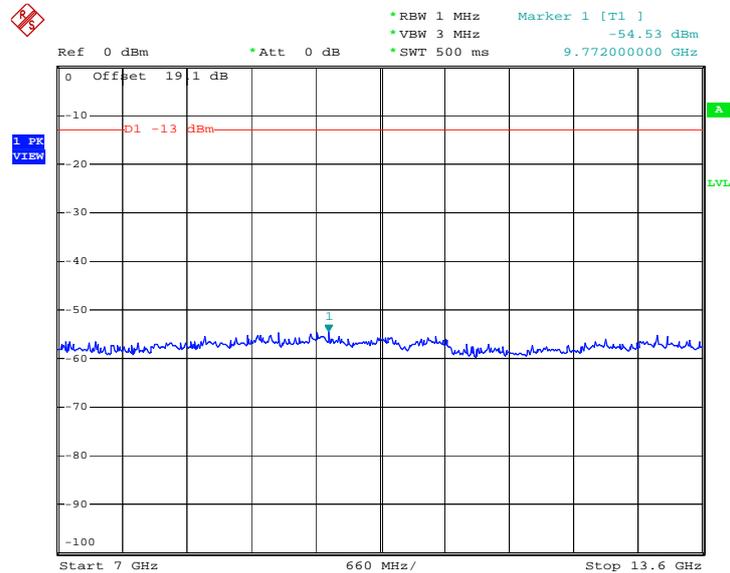


Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 7.JUN.2013 17:02:36

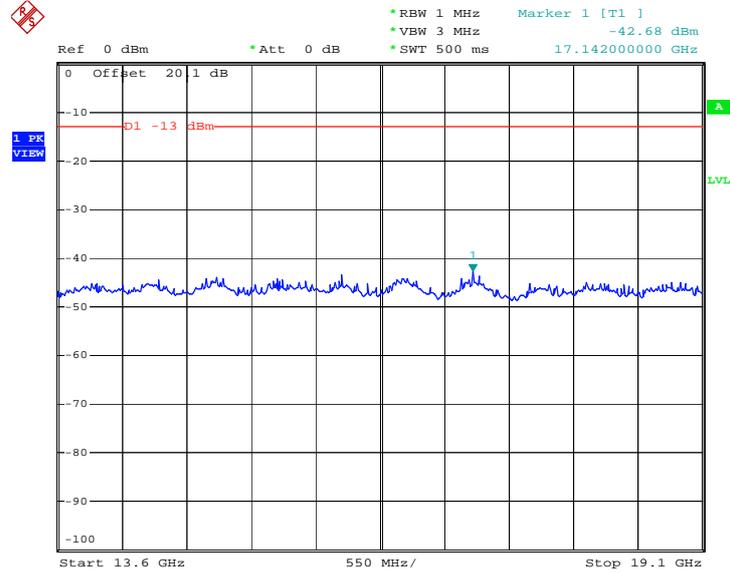
Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz



Date: 7.JUN.2013 17:03:03



Conducted Spurious Emission Plot between 13.6GHz ~ 19.1GHz

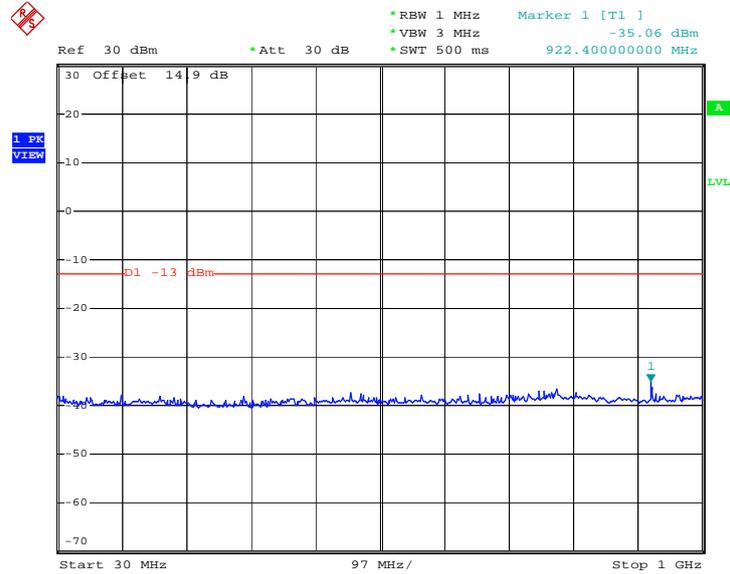


Date: 7.JUN.2013 17:03:28



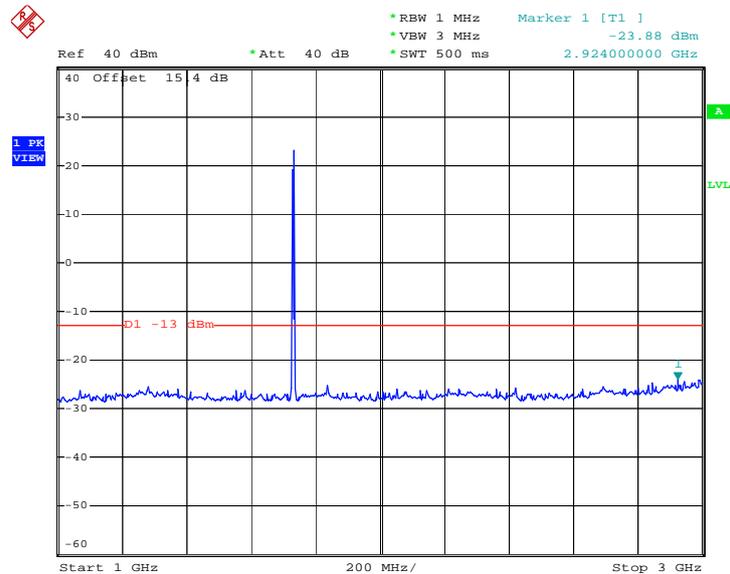
Band :	CDMA2000 BC15	Channel	425
Test Mode :	1xRTT_RC1+S055 (QPSK)	Frequency :	1731.25 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 11.JUN.2013 11:17:10

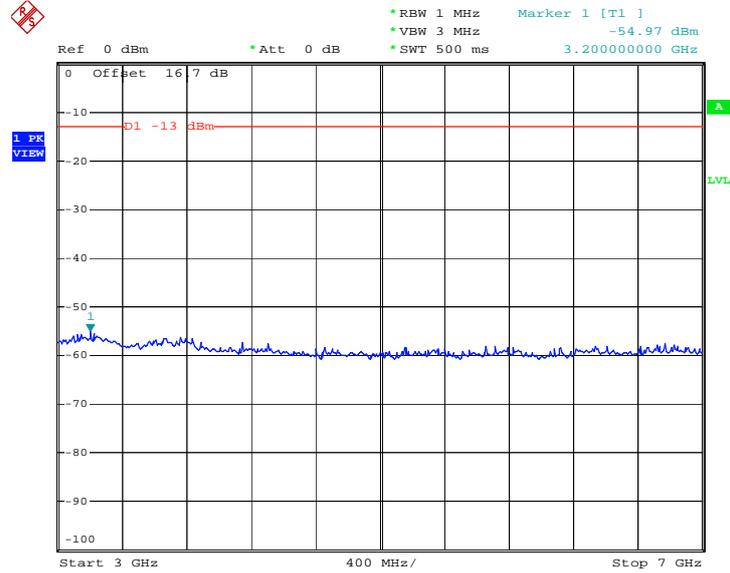
Conducted Spurious Emission Plot between 1GHz ~ 3GHz



Date: 11.JUN.2013 11:20:39

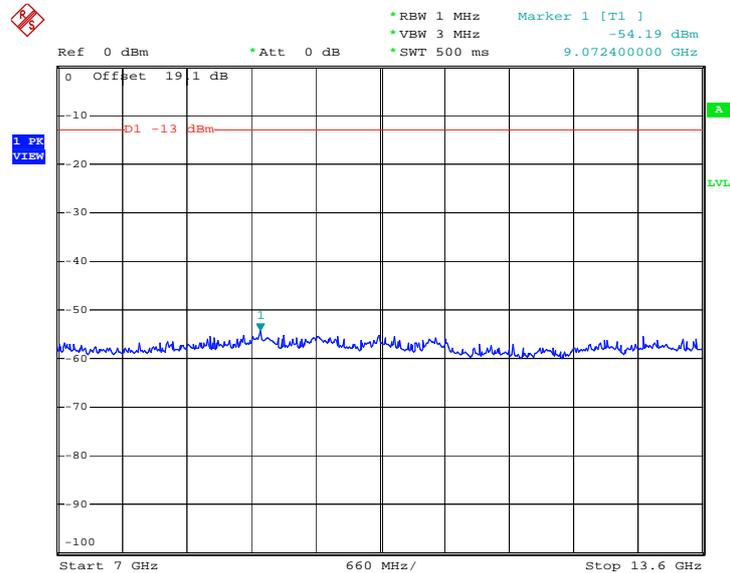


Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 4.JUL.2013 09:53:17

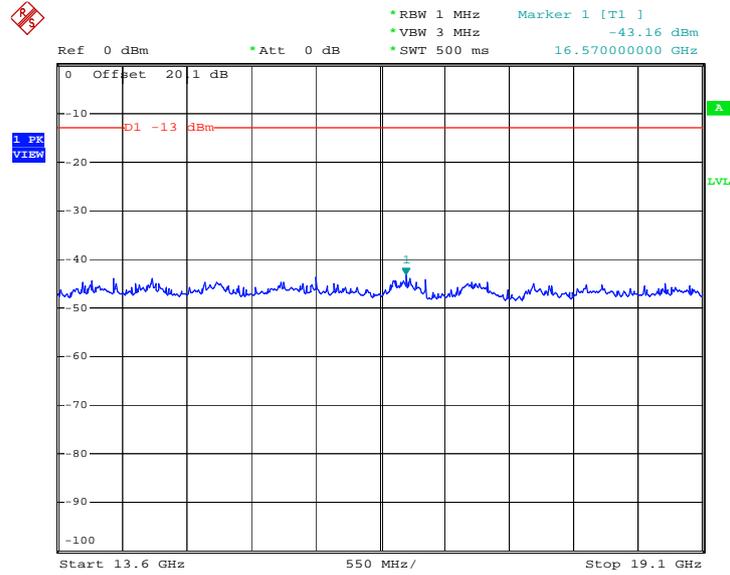
Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz



Date: 11.JUN.2013 11:25:05



Conducted Spurious Emission Plot between 13.6GHz ~ 19.1GHz



Date: 11.JUN.2013 11:25:57

3.7 Field Strength of Spurious Radiation Measurement

3.7.1 Description of Field Strength of Spurious Radiated Measurement

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

3.7.2 Measuring Instruments

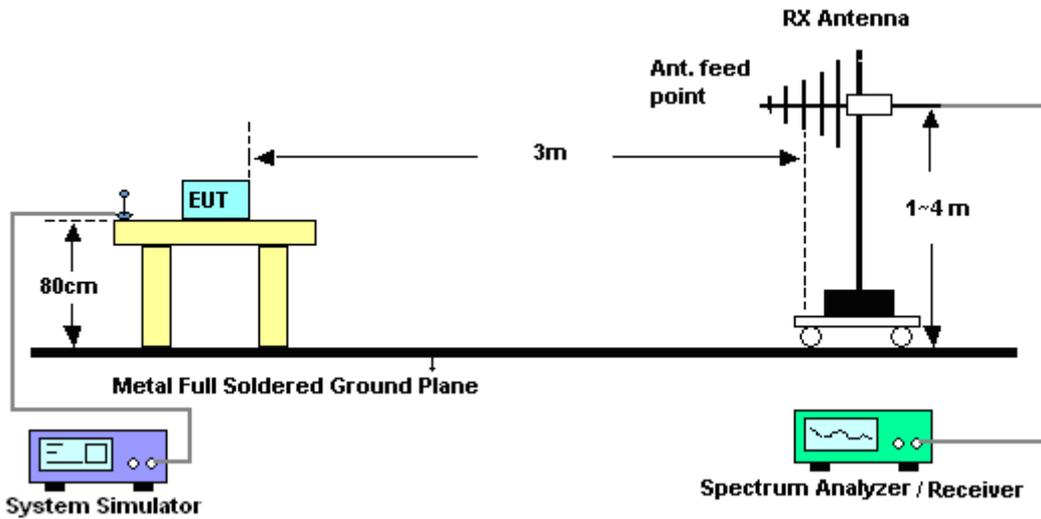
See list of measuring instruments of this test report.

3.7.3 Test Procedures

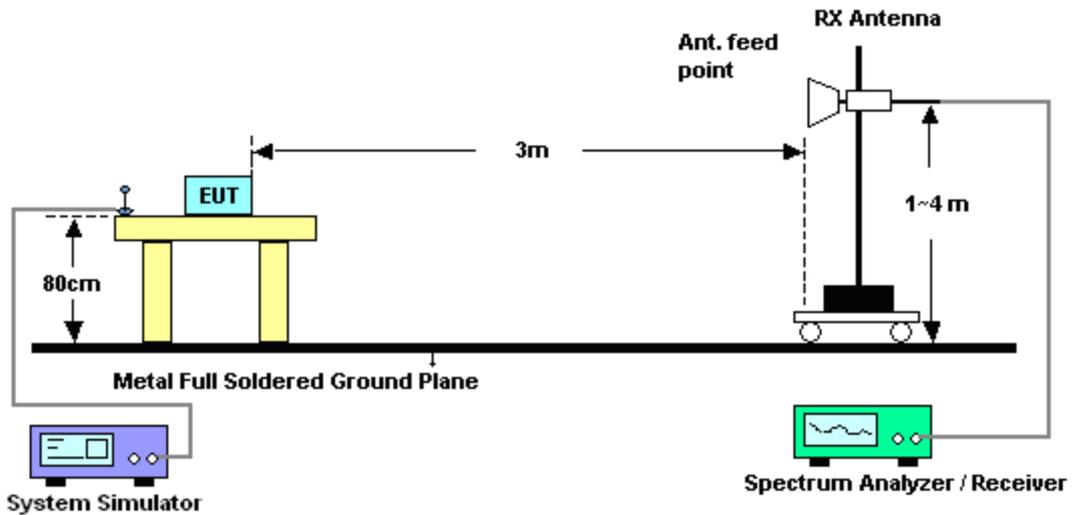
1. The EUT was placed on a rotatable wooden table with 0.8 meter above ground.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, 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. $EIRP \text{ (dBm)} = S.G. \text{ Power} - Tx \text{ Cable Loss} + Tx \text{ Antenna Gain}$
11. $ERP \text{ (dBm)} = EIRP - 2.15$

3.7.4 Test Setup

For radiated emissions from 30MHz to 1GHz



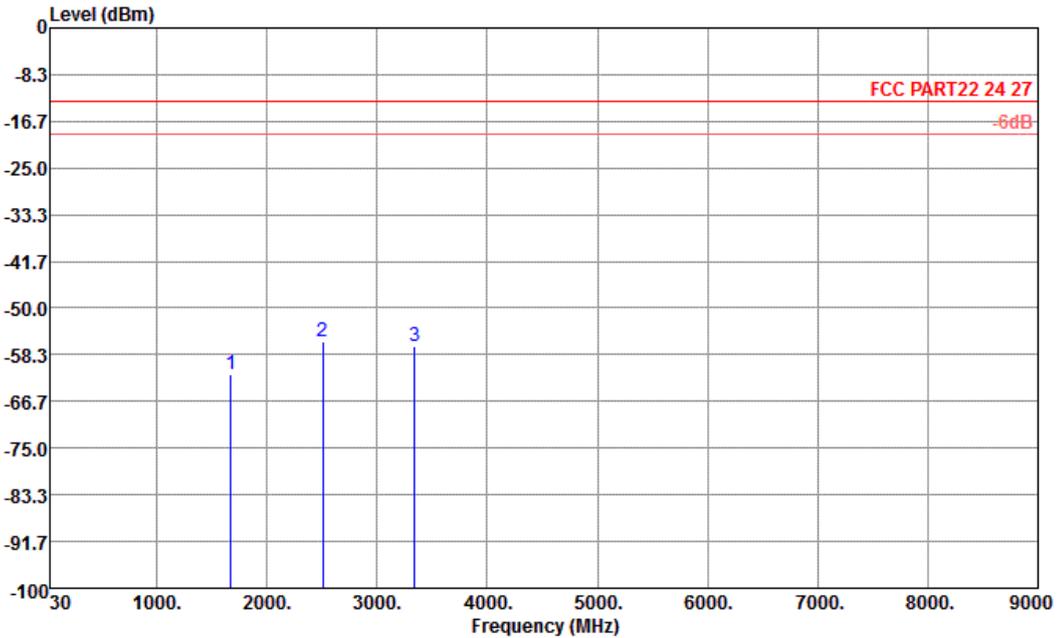
For radiated emissions above 1GHz





3.7.5 Test Result of Field Strength of Spurious Radiated

Band :	CDMA2000 BC0	Temperature :	21~22°C
Test Mode :	1xRTT_RC1+SO55 (QPSK)	Relative Humidity :	42~43%
Test Engineer :	Steven Hao	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

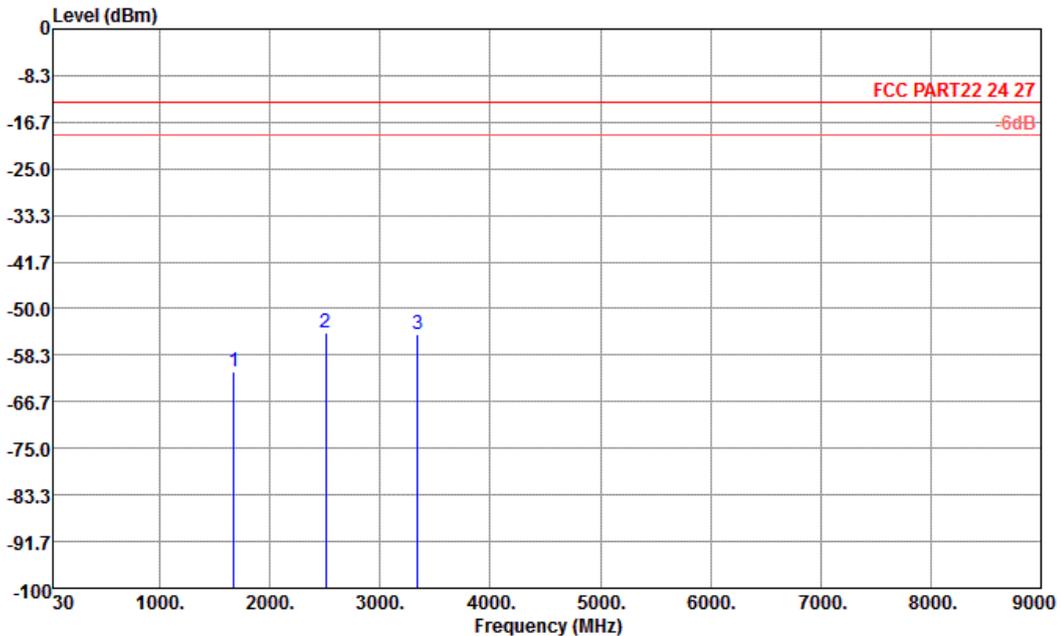


Site : 03CH01-KS
 Condition : FCC PART22 24 27 HF EIRP FACTOR HORIZONTAL

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1672	-61.90	-13	-48.90	-61.06	-62.55	0.57	3.37	H	Pass
2508	-56.02	-13	-43.02	-61.73	-58.25	0.78	5.16	H	Pass
3344	-56.78	-13	-43.78	-63.42	-60.42	0.87	6.66	H	Pass



Band :	CDMA2000 BC0	Temperature :	21~22°C
Test Mode :	1xRTT_RC1+SO55 (QPSK)	Relative Humidity :	42~43%
Test Engineer :	Steven Hao	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

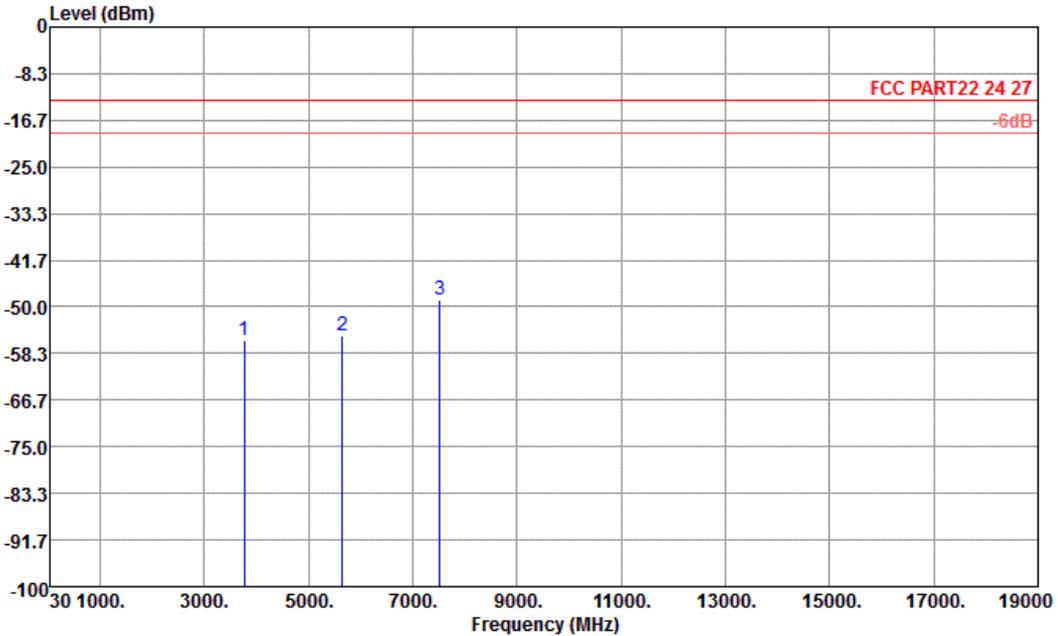


Site : 03CH01-KS
 Condition : FCC PART22 24 27 HF EIRP FACTOR VERTICAL

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1672	-61.41	-13	-48.41	-62.03	-62.06	0.57	3.37	V	Pass
2508	-54.33	-13	-41.33	-62.52	-56.56	0.78	5.16	V	Pass
3344	-54.51	-13	-41.51	-62.96	-58.15	0.87	6.66	V	Pass



Band :	CDMA2000 BC1	Temperature :	21~22°C
Test Mode :	1xRTT_RC1+SO55 (QPSK)	Relative Humidity :	42~43%
Test Engineer :	Steven Hao	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

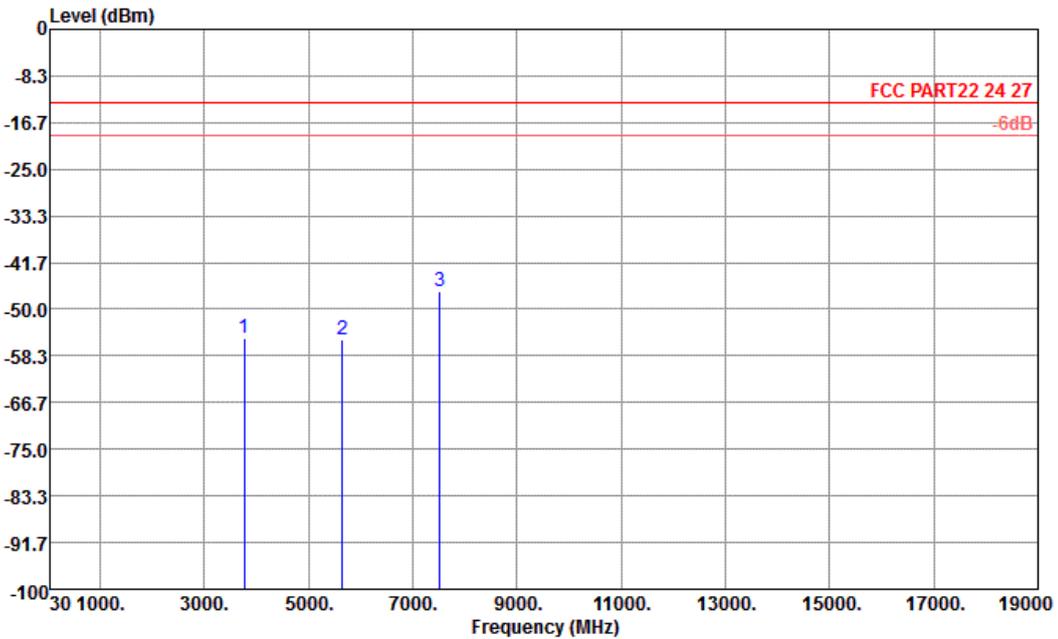


Site : 03CH01-KS
 Condition : FCC PART22 24 27 HF EIRP FACTOR HORIZONTAL

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3760	-56.11	-13	-43.11	-63.01	-62.49	0.78	7.16	H	Pass
5640	-55.14	-13	-42.14	-63.82	-63.68	1.04	9.58	H	Pass
7520	-48.78	-13	-35.78	-63.88	-58.89	1.35	11.46	H	Pass



Band :	CDMA2000 BC1	Temperature :	21~22°C
Test Mode :	1xRTT_RC1+SO55 (QPSK)	Relative Humidity :	42~43%
Test Engineer :	Steven Hao	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

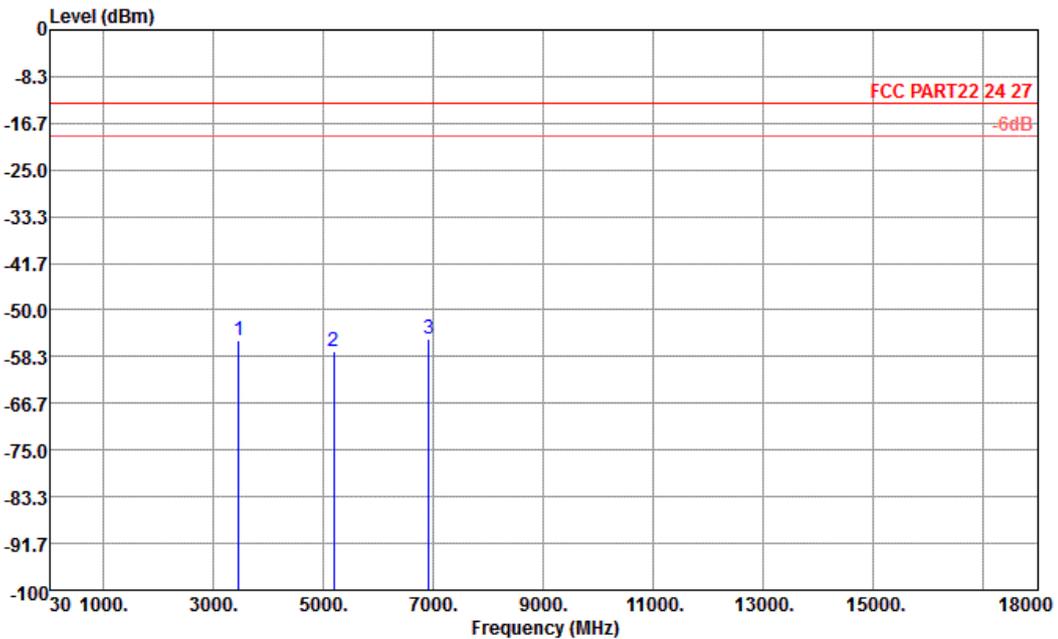


Site : 03CH01-KS
 Condition : FCC PART22 24 27 HF EIRP FACTOR VERTICAL

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3760	-55.26	-13	-42.26	-63.08	-61.64	0.78	7.16	V	Pass
5640	-55.39	-13	-42.39	-64.25	-63.93	1.04	9.58	V	Pass
7520	-46.87	-13	-33.87	-64.08	-56.98	1.35	11.46	V	Pass



Band :	CDMA2000 BC15	Temperature :	21~22°C
Test Mode :	1xRTT_RC1+S055 (QPSK)	Relative Humidity :	42~43%
Test Engineer :	Steven Hao	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



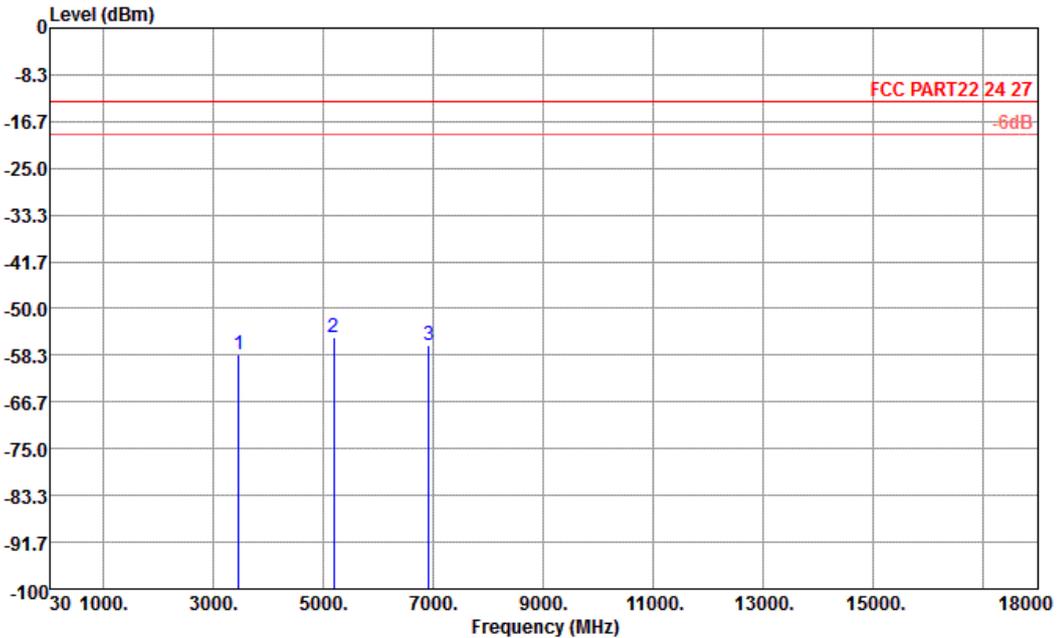
Site : 03CH01-KS

Condition : FCC PART22 24 27 HF EIRP FACTOR HORIZONTAL

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3462	-55.43	-13	-42.43	-61.72	-60.83	2.2	7.60	H	Pass
5192	-57.37	-13	-44.37	-64.47	-64.15	3.12	9.90	H	Pass
6924	-55.22	-13	-42.22	-64.28	-63.11	2.98	10.87	H	Pass



Band :	CDMA2000 BC15	Temperature :	21~22°C
Test Mode :	1xRTT_RC1+S055 (QPSK)	Relative Humidity :	42~43%
Test Engineer :	Steven Hao	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Site : 03CH01-KS
 Condition : FCC PART22 24 27 HF EIRP FACTOR VERTICAL

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3462	-58.30	-13	-45.30	-62.57	-63.70	2.2	7.6	V	Pass
5192	-55.23	-13	-42.23	-64.39	-62.01	3.12	9.9	V	Pass
6924	-56.41	-13	-43.41	-65.17	-64.30	2.98	10.87	V	Pass

3.8 Frequency Stability Measurement

3.8.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ ($\pm 2.5\text{ppm}$) of the center frequency.

3.8.2 Measuring Instruments

See list of measuring instruments of this test report.

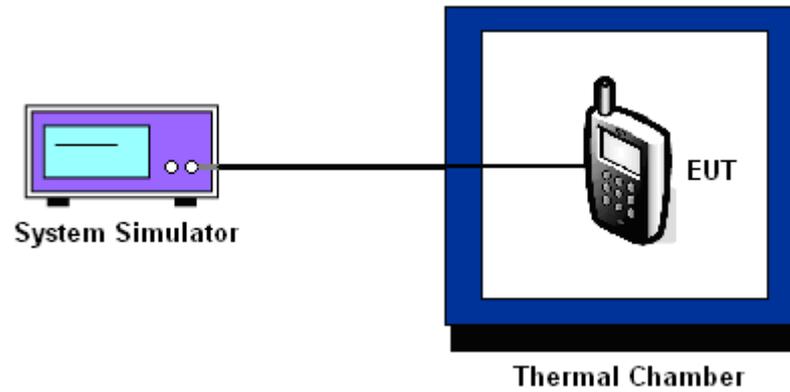
3.8.3 Test Procedures for Temperature Variation

1. The EUT was set up in the thermal chamber and connected with the base station.
2. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
3. With power OFF, the temperature was raised in 10°C step up to 50°C . The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.
4. If the EUT cannot be turned on at -30°C , the testing lowest temperature will be raised in 10°C step until the EUT can be turned on.

3.8.4 Test Procedures for Voltage Variation

1. The EUT was placed in a temperature chamber at $25\pm 5^{\circ}\text{C}$ and connected with the base station.
2. The power supply voltage to the EUT was varied from BEP to 115% of the nominal value measured at the input to the EUT.
3. The variation in frequency was measured for the worst case.

3.8.5 Test Setup





3.8.6 Test Result of Temperature Variation

Band :	CDMA2000 BC0 1xRTT_RC1+SO55	Channel :	384
Limit (ppm) :	2.5	Frequency :	836.52 MHz

Temperature (°C)	Freq. Dev. (Hz)	Deviation (ppm)	Result
-30	-15	-0.02	PASS
-20	13	+0.02	
-10	21	+0.02	
0	7	+0.01	
10	-11	-0.01	
20	-3	+0.00	
30	13	+0.02	
40	16	+0.02	
50	26	+0.03	
55	-5	-0.01	

Note: The manufacturer declared that the EUT could work properly at temperature 55°C.

Band :	CDMA2000 BC1 1xRTT_RC1+SO55	Channel :	600
Limit (ppm) :	2.5	Frequency :	1880.0 MHz

Temperature (°C)	Freq. Dev. (Hz)	Deviation (ppm)	Result
-30	31	+0.02	PASS
-20	29	+0.02	
-10	25	+0.01	
0	23	+0.01	
10	-22	-0.01	
20	-26	-0.01	
30	-29	-0.02	
40	-32	-0.02	
50	-35	-0.02	
55	-44	-0.02	



Band :	CDMA2000 BC15 1xRTT_RC1+SO55	Channel :	425
Limit (ppm) :	2.5	Frequency :	1731.25 MHz

Temperature (°C)	Freq. Dev. (Hz)	Deviation (ppm)	Result
-30	-32	-0.02	PASS
-20	-30	-0.02	
-10	-29	-0.02	
0	-26	-0.02	
10	23	+0.01	
20	25	+0.01	
30	-19	-0.01	
40	-22	-0.01	
50	-26	-0.02	
55	-30	-0.02	

3.8.7 Test Result of Voltage Variation

Band & Channel	Mode	Voltage (Volt)	Freq. Dev. (Hz)	Deviation (ppm)	Limit (ppm)	Result
CDMA2000 BC0 CH384	1xRTT RC1+SO55	3.8	-11	-0.01	2.5	PASS
		BEP	5	+0.01		
		4.35	13	+0.02		
CDMA2000 BC1 CH600	1xRTT RC1+SO55	3.8	-21	-0.01	2.5	PASS
		BEP	-27	-0.01		
		4.35	33	+0.02		
CDMA2000 BC15 CH425	1xRTT RC1+SO55	3.8	28	+0.02	2.5	PASS
		BEP	-26	-0.02		
		4.35	24	+0.01		

Note :

1. Normal Voltage = 3.8V.
2. Battery End Point (BEP) = 3.6 V.



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSP40	100319	9kHz~40GHz	Dec. 29, 2012	Jun. 07, 2013~ Jul. 04, 2013	Dec. 28, 2013	Conducted (TH01-KS)
Thermal Chamber	Ten Billion	TTC-B3S	TBN-960502	N/A	Dec. 29, 2012	Jun. 07, 2013~ Jul. 04, 2013	Dec. 28, 2013	Conducted (TH01-KS)
EMI Test Receiver	R&S	ESCI	100534	9kHz~3GHz	Nov. 08, 2012	Jun. 23, 2013	Nov. 07, 2013	Radiation (03CH01-KS)
Spectrum Analyzer	R&S	FSP30	100400	9kHz~30GHz	May 23, 2013	Jun. 23, 2013	May 22, 2014	Radiation (03CH01-KS)
Bilog Antenna	SCHAFFNER	CBL6112D	23182	25MHz~2GHz	Dec. 07, 2012	Jun. 23, 2013	Dec. 06, 2013	Radiation (03CH01-KS)
Double Ridge Horn Antenna	EMCO	3117	00075959	1GHz~18GHz	Jan. 06, 2013	Jun. 23, 2013	Jan. 05, 2014	Radiation (03CH01-KS)
Amplifier	com-power	PA-103A	161069	1MHz~1GHz	May 23, 2013	Jun. 23, 2013	May 22, 2014	Radiation (03CH01-KS)
Amplifier	Agilent	8449B	3008A02370	1GHz~26.5GHz	Dec. 29, 2012	Jun. 23, 2013	Dec. 28, 2013	Radiation (03CH01-KS)
SHF-EHF Horn	Schwarzbeck	BBHA 9170	9170249	15GHz~40GHz	Nov. 23, 2012	Jun. 23, 2013	Nov. 22, 2013	Radiation (03CH01-KS)
Turn Table	MF	MF7802	N/A	0 ~ 360 degree	NCR	Jun. 23, 2013	NCR	Radiation (03CH01-KS)
Antenna Mast	MF	MF7802	N/A	1 m - 4 m	NCR	Jun. 23, 2013	NCR	Radiation (03CH01-KS)
Base Station	Agilent	E5515C	GB47050646	Full Band	Aug. 17, 2013	Jul. 24, 2013	Aug. 16, 2013	EIRP (OTA01-KS)
Spectrum Analyzer	R&S	FSP 7	100819	9kHz~7GHz	May 23, 2013	Jul. 24, 2013	May 22, 2014	EIRP (OTA01-KS)
Switch Control Manframe	Agilent	3499A	MY42005452	N/A	N/A	Jul. 24, 2013	N/A	EIRP (OTA01-KS)
Dual 1-to-6(4) MW MUX	Agilent	N2276A	MY42000841	N/A	N/A	Jul. 24, 2013	N/A	EIRP (OTA01-KS)
Microwave Switch	Agilent	44476A	MY42002573	N/A	N/A	Jul. 24, 2013	N/A	EIRP (OTA01-KS)
Microwave Switch	Agilent	44476A	MY42002586	N/A	N/A	Jul. 24, 2013	N/A	EIRP (OTA01-KS)
Diagonal Dual Polarized Horn	ETS-Lindgren	3164-04	00066993	700MHz~6GHz	N/A	Jul. 24, 2013	N/A	EIRP (OTA01-KS)
Multi-Devices Controller	ETS-Lindgren	2090-OPT1	00066604	N/A	N/A	Jul. 24, 2013	N/A	EIRP (OTA01-KS)
Conical Log Spiral (Small)	ETS-Lindgren	3102	00066951	1~10GHz	N/A	Jul. 24, 2013	N/A	EIRP (OTA01-KS)



Turn Table	ETS-Lindgren	2088	N/A	Resolution : 0.1degree	N/A	Jul. 24, 2013	N/A	EIRP (OTA01-KS)
Limiting Amplifier	ETS-lindgren	109643	920326	10M~2.5GHz	N/A	Jul. 24, 2013	N/A	EIRP (OTA01-KS)
EMQuest	ETS-Lindgren	EMQ-100	1125	N/A	N/A	Jul. 24, 2013	N/A	EIRP (OTA01-KS)
Medium Duty Holder	ETS-Lindgren	2015	N/A	N/A	N/A	Jul. 24, 2013	N/A	EIRP (OTA01-KS)



5 Uncertainty of Evaluation

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.54
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.72
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