



FCC RF Test Report

APPLICANT : HTC Corporation
EQUIPMENT : Smartphone
MODEL NAME : PL80120
FCC ID : NM8PL80120
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 Aug. 16, 2012 and completely tested on Sep. 21, 2012. We, SPORTON INTERNATIONAL 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 INC., the test report shall not be reproduced except in full.

Reviewed by:

Jones Tsai / Manager



SPORTON INTERNATIONAL INC.

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FCC ID : NM8PL80120

Page Number : 1 of 65

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SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.1	§2.1046	N/A	Conducted Output Power	N/A	PASS	-
3.2	§24.232(d) §27.50(d)(5)	N/A	Peak-to-Average Ratio	< 13 dB	PASS	-
3.3	§22.913(a)(2)	RSS-132(4.4) SRSP-503(5.1.3)	Effective Radiated Power	< 7 Watts	PASS	-
3.3	§24.232(c)	RSS-133 (6.4) SRSP-510(5.1.2)	Equivalent Isotropic Radiated Power	< 2 Watts	PASS	-
3.3	§27.50(d)(4)	RSS-139 (6.4) SRSP-513(5.1.2)	Equivalent Isotropic Radiated Power	< 1 Watts	PASS	-
3.4	§2.1049 §22.917(a) §24.238(a) §27.53(g)	N/A	Occupied Bandwidth	N/A	PASS	-
3.5	§2.1051 §22.917(a) §24.238(a) §27.53(g)	RSS-132 (4.5.1) RSS-133 (6.5.1) RSS-139 (6.5)	Band Edge Measurement	< 43+10log10(P[Watts])	PASS	-
3.6	§2.1051 §22.917(a) §24.238(a) §27.53(g)	RSS-132 (4.5.1) RSS-133 (6.5.1) RSS-139 (6.5)	Conducted Emission	< 43+10log10(P[Watts])	PASS	-
3.7	§2.1053 §22.917(a) §24.238(a) §27.53(g)	RSS-132 (4.5.1) RSS-133 (6.5.1) RSS-139 (6.5)	Field Strength of Spurious Radiation	< 43+10log10(P[Watts])	PASS	Under limit 13.77 dB at 13160.000 MHz
3.8	§2.1055 §22.355 §24.235 §27.54	RSS-132 (4.3) RSS-133 (6.3) RSS-139 (6.3)	Frequency Stability for Temperature & Voltage	< 2.5 ppm	PASS	-

1 General Description

1.1 Applicant

HTC Corporation

No. 23, Xinghua Rd., Taoyuan City, Taoyuan County 330, Taiwan

1.2 Manufacturer

HTC Corporation

No. 23, Xinghua Rd., Taoyuan City, Taoyuan County 330, Taiwan

1.3 Feature of Equipment Under Test

Product Feature	
Equipment	Smartphone
Model Name	PL80120
FCC ID	NM8PL80120
Sample 1	EUT with LCM 1 and Main Camera 1
Sample 2	EUT with LCM 2 and Main Camera 2
EUT supports Radios application	CDMA/EV-DO/LTE/ WLAN 11abgn / Bluetooth / NFC
EUT Stage	Production Unit

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

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 : 24.66 dBm CDMA2000 BC1 : 24.82 dBm CDMA2000 BC15 : 24.88 dBm
Antenna Type	PIFA Antenna
Type of Modulation	CDMA2000 : QPSK CDMA2000 1xEV-DO : 8PSK

1.4 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 1xEV-DO Rev. 0	QPSK	0.0782	0.02 ppm	1M28F9W
Part 24	CDMA2000 BC1 1xEV-DO Rev. 0	QPSK	0.3342	0.01 ppm	1M31F9W
Part 27	CDMA2000 BC15 1xEV-DO Rev. 0	QPSK	0.2218	0.01 ppm	1M29F9W

1.5 Testing Site

Test Site	SPORTON INTERNATIONAL INC.		
Test Site Location	No. 52, Hwa Ya 1 st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C. TEL: +886-3-327-3456 FAX: +886-3-328-4978		
Test Site No.	Sporton Site No.		FCC/IC Registration No.
	TH02-HY	03CH05-HY	722060/4086B-1

1.6 Applied Standards

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

- Preliminary Guidance for Receiving Applications for Certification of 3G Device. May 9, 2006.
- 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 v01
- IC RSS-132 Issue 2
- IC RSS-133 Issue 5
- IC RSS-139 Issue 2

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.



1.7 Ancillary Equipment List

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	Agilent	E5515C	N/A	N/A	Unshielded, 1.8 m

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.

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	■ 1xEV-DO Rev. 0 Link Mode	■ 1xEV-DO Rev. 0 Link Mode
CDMA2000 BC1	■ 1xEV-DO Rev. 0 Link Mode	■ 1xEV-DO Rev. 0 Link Mode
CDMA2000 BC15	■ 1xEV-DO Rev. 0 Link Mode	■ 1xEV-DO Rev. 0 Link Mode

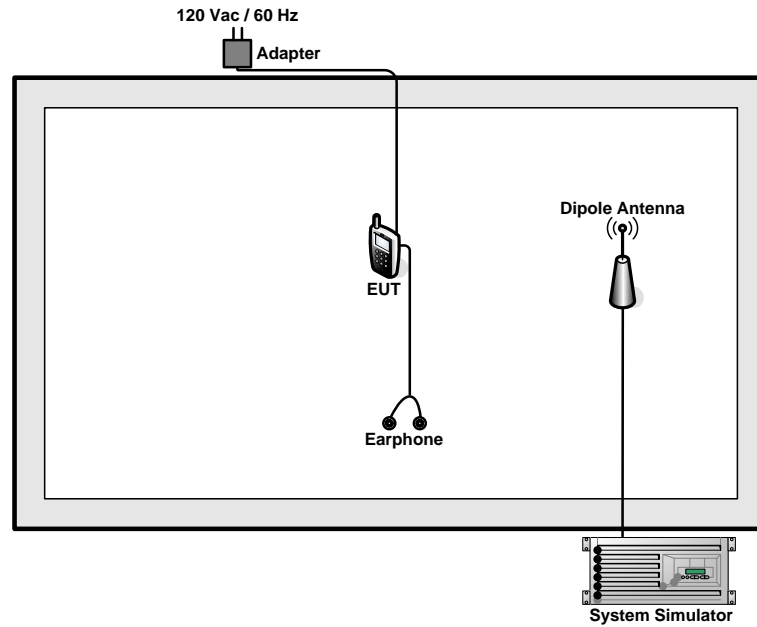
Note:

1. The maximum RF output power levels are 1xEVDO RTAP 153.6K mode for CDMA2000 BC0, 1xEVDO RTAP 153.6K mode for CDMA2000 BC1, and 1xEVDO RTAP 153.6K 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.
3. All the tests were performed with Sample 1.

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	24.65	24.60	24.61	24.63	24.72	24.42	24.79	24.74	24.69
1xRTT RC3+SO55	24.49	24.51	24.47	24.69	24.70	24.30	24.80	24.70	24.66
1xRTT RC3+SO32(+ F-SCH)	24.47	24.57	24.51	24.63	24.67	24.05	24.84	24.63	24.55
1xRTT RC3+SO32(+SCH)	24.55	24.58	24.49	24.67	24.66	24.06	24.82	24.62	24.68
1xEV-DO RTAP 153.6K	24.58	24.66	24.62	24.74	24.82	24.54	24.88	24.63	24.61
1xEV-DO RETAP 4096K	24.53	24.56	24.47	24.72	24.76	24.51	24.86	24.61	24.59

2.2 Connection Diagram of Test System



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.

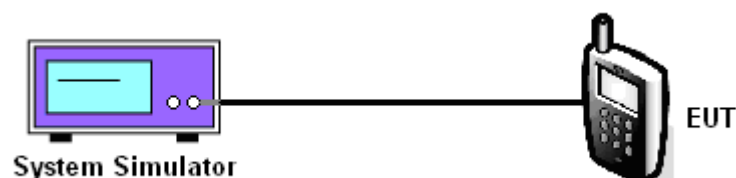
3.1.2 Measuring Instruments

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. Set EUT at maximum power through base station.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. 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 1xEV-DO Rev. 0		
Test Status	RTAP 153.6K		
Channel	1013 (Low)	384 (Mid)	777 (High)
Frequency (MHz)	824.70	836.52	848.31
Conducted Power (dBm)	24.58	24.66	24.62
Conducted Power (Watts)	0.29	0.29	0.29

CDMA2000 BC1			
Test Mode	CDMA 2000 1xEV-DO Rev. 0		
Test Status	RTAP 153.6K		
Channel	25 (Low)	600 (Mid)	1175 (High)
Frequency (MHz)	1851.25	1880.00	1908.75
Conducted Power (dBm)	24.74	24.82	24.54
Conducted Power (Watts)	0.30	0.30	0.28

CDMA2000 BC15			
Test Mode	CDMA 2000 1xEV-DO Rev. 0		
Test Status	RTAP 153.6K		
Channel	25 (Low)	425 (Mid)	875 (High)
Frequency (MHz)	1711.25	1731.25	1753.75
Conducted Power (dBm)	24.88	24.63	24.61
Conducted Power (Watts)	0.31	0.29	0.29

Note: maximum average power for CDMA2000.



3.2 Peak-to-Average Ratio

3.2.1 Description of the PAR Measurement

Power Complementary Cumulative Distribution Function (CCDF) curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis. A CCDF curve depicts the probability of the peak signal amplitude exceeding the average power level. Most contemporary measurement instrumentation include the capability to produce CCDF curves for an input signal provided that the instrument's resolution bandwidth can be set wide enough to accommodate the entire input signal bandwidth. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

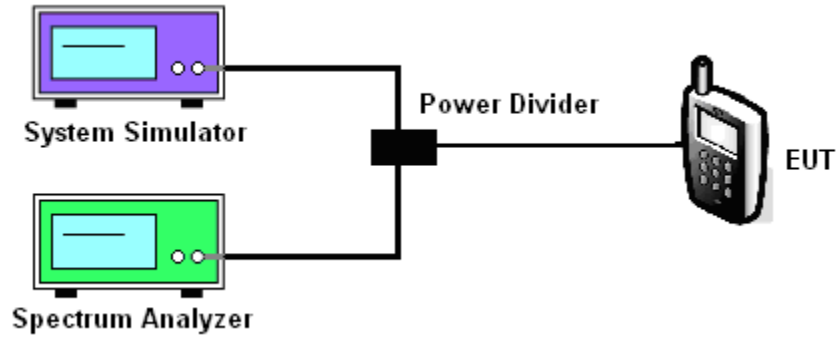
3.2.2 Measuring Instruments

See list of measuring instruments of this test report.

3.2.3 Test Procedures

1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
2. For GSM/EGPRS operating modes:
 - a. Set the RBW = 1MHz, VBW = 1MHz, Peak detector in spectrum analyzer.
 - b. Set EUT in maximum power output, and triggered the burst signal.
 - c. Measured respectively the Peak level and Mean level, and the deviation was recorded as Peak to Average Ratio.
3. For UMTS 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 %.

3.2.4 Test Setup





3.2.5 Test Result of Peak-to-Average Ratio

CDMA2000 BC1			
Test Mode	CDMA 2000 1xEV-DO Rev. 0		
Test Status	RTAP 153.6K		
Channel	25 (Low)	600 (Mid)	1175 (High)
Frequency (MHz)	1851.25	1880.00	1908.75
Peak-to-Average Ratio (dB)	2.64	3.16	2.36

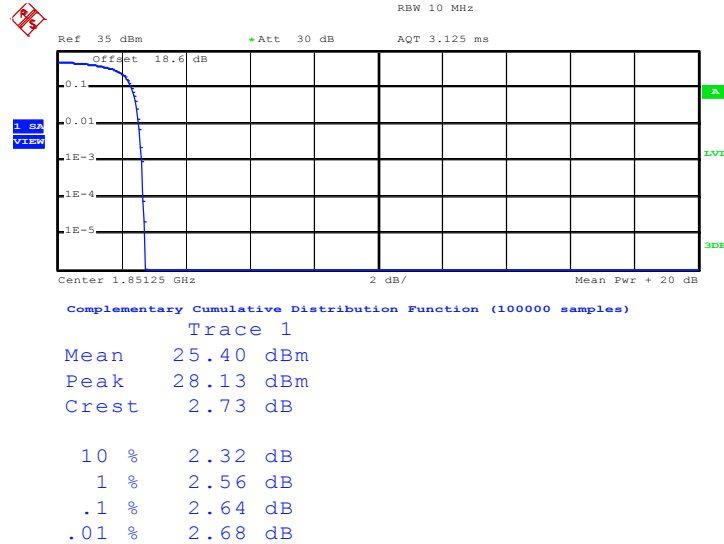
CDMA2000 BC15			
Test Mode	CDMA 2000 1xEV-DO Rev. 0		
Test Status	RTAP 153.6K		
Channel	25 (Low)	425 (Mid)	875 (High)
Frequency (MHz)	1711.25	1731.25	1753.75
Peak-to-Average Ratio (dB)	2.84	3.20	2.96



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

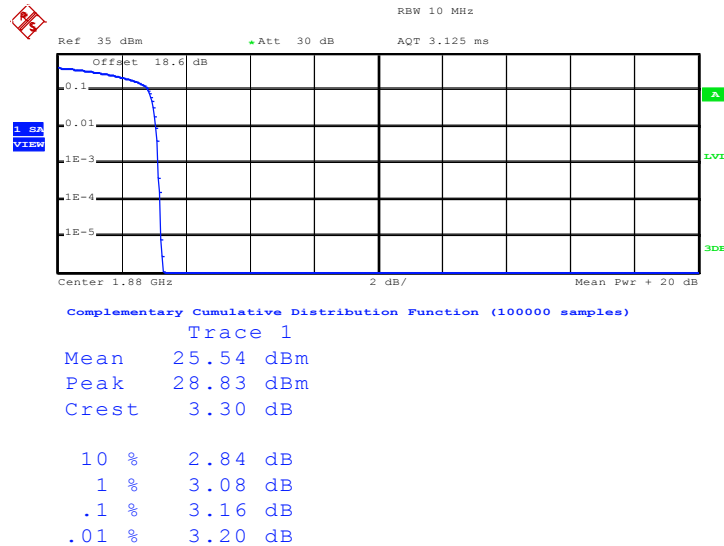
Band :	CDMA2000 BC1	Test Mode :	1xEV-DO Rev. 0
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Peak-to-Average Ratio on Channel 25 (1851.25 MHz)



Date: 21.SEP.2012 10:30:13

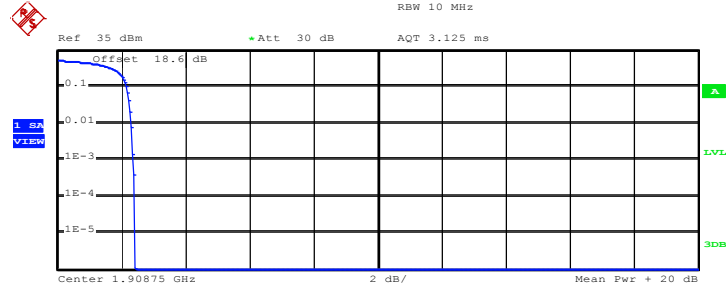
Peak-to-Average Ratio on Channel 600 (1880 MHz)



Date: 21.SEP.2012 10:36:39



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



Complementary Cumulative Distribution Function (100000 samples)

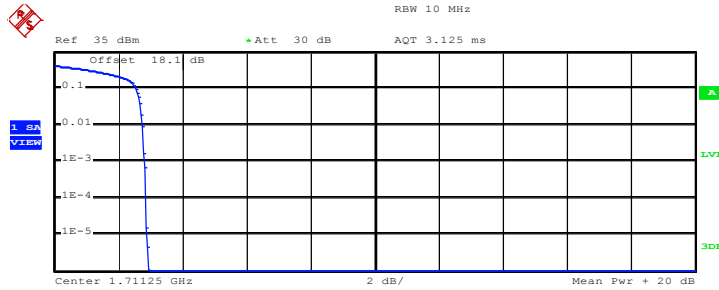
Trace 1	
Mean	24.92 dBm
Peak	27.35 dBm
Crest	2.43 dB
10 %	2.16 dB
1 %	2.32 dB
.1 %	2.36 dB
.01 %	2.44 dB

Date: 21.SEP.2012 10:37:15



Band :	CDMA2000 BC15	Test Mode :	1xEV-DO Rev. 0
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Peak-to-Average Ratio on Channel 25 (1711.25 MHz)



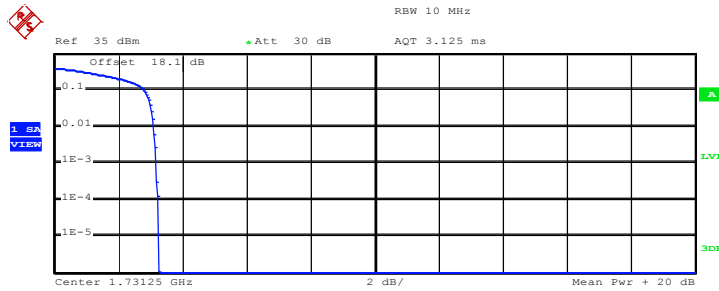
Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean	24.84 dBm
Peak	27.78 dBm
Crest	2.93 dB
10 %	2.56 dB
1 %	2.76 dB
.1 %	2.84 dB
.01 %	2.88 dB

Date: 20.SEP.2012 17:03:16

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



Complementary Cumulative Distribution Function (100000 samples)

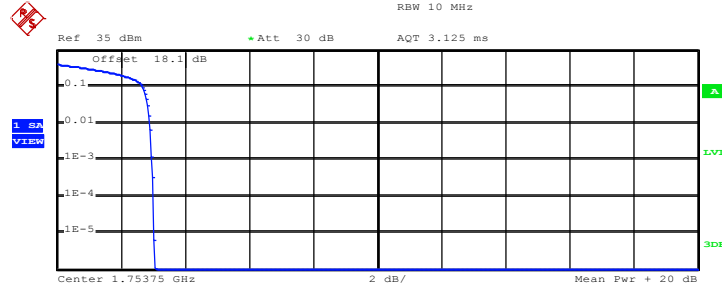
Trace 1

Mean	24.87 dBm
Peak	28.13 dBm
Crest	3.26 dB
10 %	2.80 dB
1 %	3.12 dB
.1 %	3.20 dB
.01 %	3.24 dB

Date: 20.SEP.2012 17:04:41



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



Complementary Cumulative Distribution Function (100000 samples)

Trace 1	
Mean	25.05 dBm
Peak	28.13 dBm
Crest	3.08 dB
10 %	2.68 dB
1 %	2.92 dB
.1 %	2.96 dB
.01 %	3.04 dB

Date: 20.SEP.2012 17:04:06



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 v01. The ERP of mobile transmitters must not exceed 7 Watts and the EIRP of mobile transmitters are limited to 2 Watts.

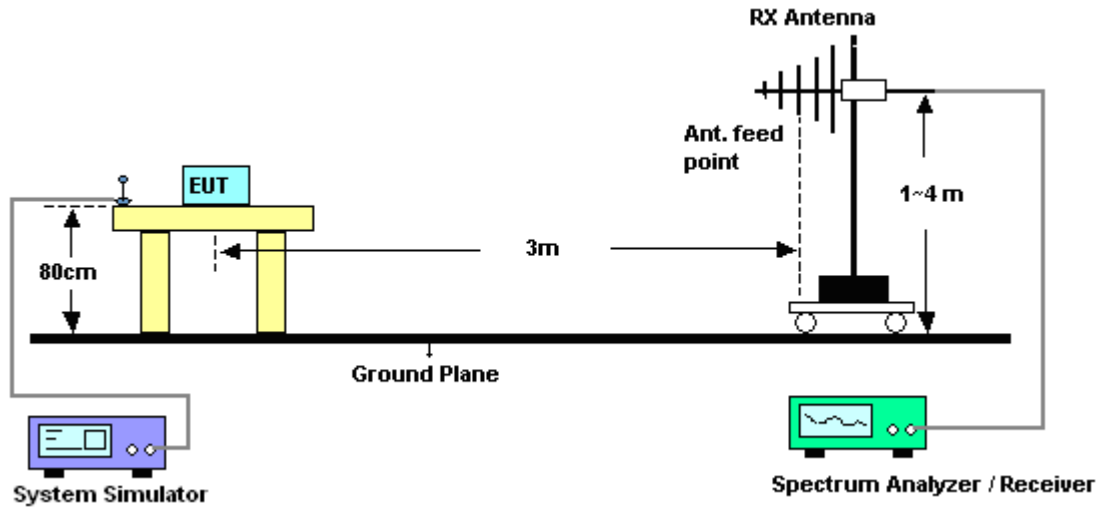
3.3.2 Measuring Instruments

See list of measuring instruments of this test report.

3.3.3 Test Procedures

1. The EUT was placed on a non-conductive rotating platform with 0.8 meter height in a semi-anechoic chamber. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and a spectrum analyzer with RBW= 30KHz, VBW= 100KHz, and RMS detector settings per section 4.0 of KDB 971168 D01.
2. During the measurement, the EUT was enforced in maximum power and linked with a base station. The highest emission was recorded from analyzer power level (LVL) from the 360 degrees rotation of the turntable and the test antenna raised and lowered over a range from 1 to 4 meters in both horizontally and vertically polarized orientations.
3. Effective Isotropic Radiated Power (EIRP) was measured by substitution method according to TIA/EIA-603-C. The EUT was replaced by dipole antenna (substitution antenna) at same location, and then a known power from S.G. was applied into the dipole antenna through a Tx cable, and then recorded the maximum Analyzer reading through raised and lowered the test antenna. The correction factor (in dB) = S.G. - Tx Cable loss + Substitution antenna gain - Analyzer reading. Then the EUT's EIRP was calculated with the correction factor, $EIRP = LVL + \text{Correction factor}$ and $ERP = EIRP - 2.15$.

3.3.4 Test Setup





3.3.5 Test Result of ERP

CDMA2000 BC0 1xEV-DO Rev. 0_RTAP 153.6K Radiated Power ERP				
Horizontal Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (W)
824.70	-10.33	31	18.52	0.0711
836.52	-9.87	30.95	18.93	0.0782
848.31	-10.14	31.2	18.91	0.0778
Vertical Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (W)
824.70	-18.82	34.47	13.50	0.0224
836.52	-18.20	34.91	14.56	0.0286
848.31	-18.72	34.76	13.89	0.0245

* ERP = LVL (dBm) + Correction Factor (dB) – 2.15



3.3.6 Test Result of EIRP

CDMA2000 BC1 1xEV-DO Rev. 0_RTAP 153.6K Radiated Power EIRP				
Horizontal Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1851.25	-17.34	40.63	23.29	0.2133
1880.00	-16.67	41.91	25.24	0.3342
1908.75	-17.19	41.76	24.57	0.2864
Vertical Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1851.25	-25.13	42.82	17.69	0.0587
1880.00	-23.38	43.75	20.37	0.1089
1908.75	-24.73	43.33	18.60	0.0724

* EIRP = LVL (dBm) + Correction Factor (dB)

CDMA2000 BC15 1xEV-DO Rev. 0_RTAP 153.6K Radiated Power EIRP				
Horizontal Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1711.25	-16.93	39.42	22.49	0.1774
1732.50	-16.52	39.98	23.46	0.2218
1753.75	-17.48	39.95	22.47	0.1766
Vertical Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1711.25	-22.10	42.87	20.77	0.1194
1732.50	-21.34	42.18	20.84	0.1213
1753.75	-21.84	41.66	19.82	0.0959

* EIRP = LVL (dBm) + Correction Factor (dB)

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.

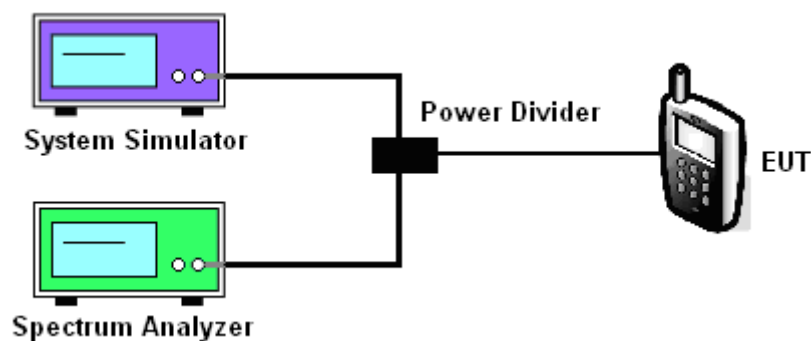
3.4.2 Measuring Instruments

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 99% occupied bandwidth and 26 dB bandwidth of the middle channel for the highest RF powers were measured.

3.4.4 Test Setup





3.4.5 Test Result of Occupied Bandwidth and 26dB Bandwidth

CDMA2000 BC0			
Test Mode	CDMA 2000 1xEV-DO Rev. 0		
Test Status	RTAP 153.6K		
Channel	1013 (Low)	384 (Mid)	777 (High)
Frequency (MHz)	824.70	836.52	848.31
99% OBW (MHz)	1.272	1.276	1.280
26dB BW (MHz)	1.444	1.432	1.440

CDMA2000 BC1			
Test Mode	CDMA 2000 1xEV-DO Rev. 0		
Test Status	RTAP 153.6K		
Channel	25 (Low)	600 (Mid)	1175 (High)
Frequency (MHz)	1851.25	1880.00	1908.75
99% OBW (MHz)	1.308	1.280	1.292
26dB BW (MHz)	1.524	1.464	1.728

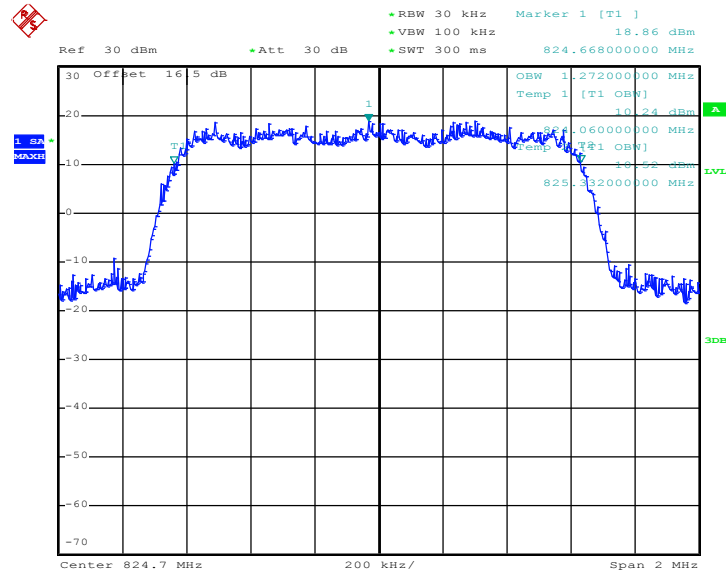
CDMA2000 BC15			
Test Mode	CDMA 2000 1xEV-DO Rev. 0		
Test Status	RTAP 153.6K		
Channel	25 (Low)	425 (Mid)	875 (High)
Frequency (MHz)	1711.25	1731.25	1753.75
99% OBW (MHz)	1.292	1.284	1.284
26dB BW (MHz)	1.504	1.468	1.468



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

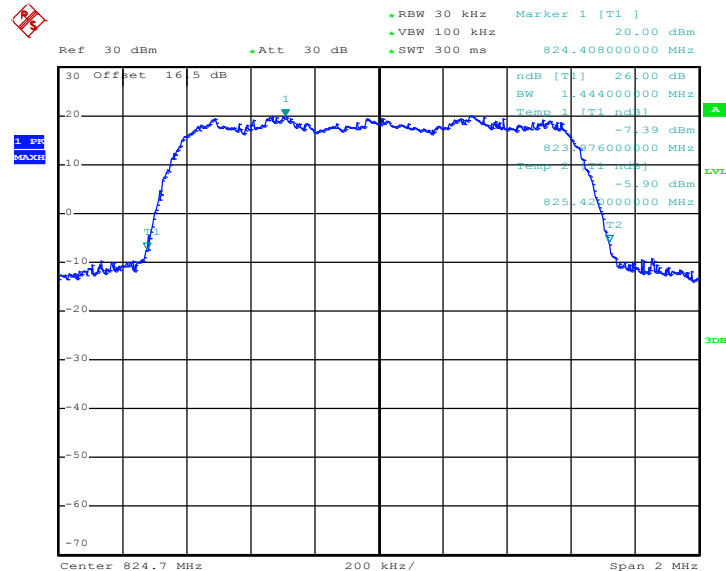
Band :	CDMA2000 BC0	Test Mode :	1xEV-DO Rev. 0_RTAP 153.6K
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99% Occupied Bandwidth Plot on Channel 1013 (824.7 MHz)



Date: 21.SEP.2012 12:04:30

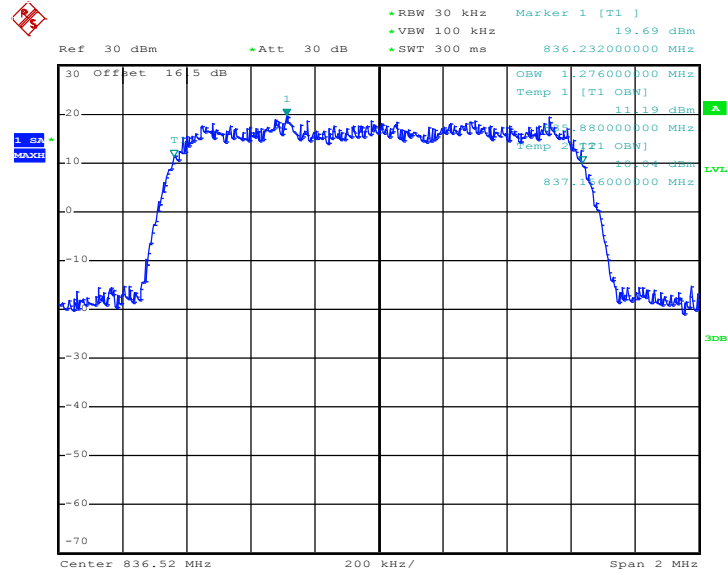
26dB Bandwidth Plot on Channel 1013 (824.7 MHz)



Date: 21.SEP.2012 11:55:58

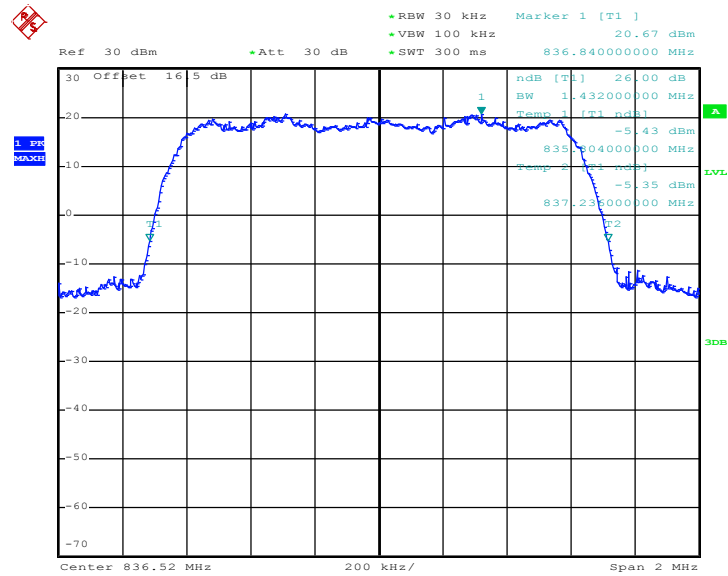


99% Occupied Bandwidth Plot on Channel 384 (836.52 MHz)



Date: 21.SEP.2012 12:03:01

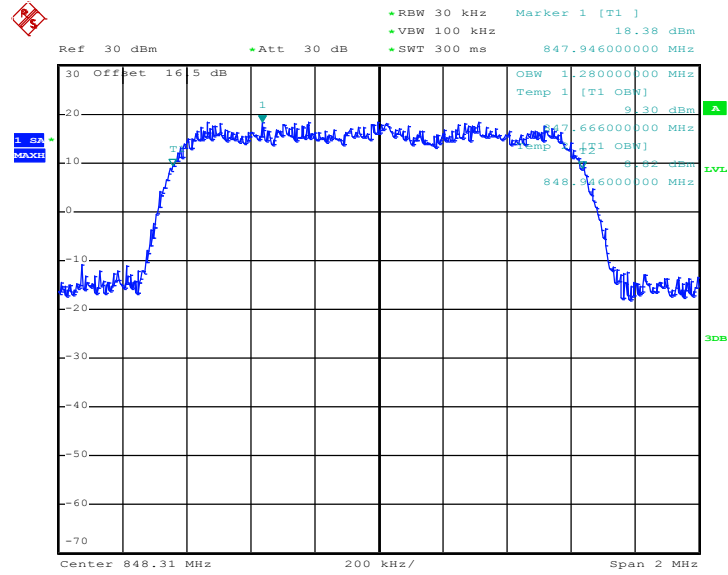
26dB Bandwidth Plot on Channel 384 (836.52 MHz)



Date: 21.SEP.2012 11:54:41

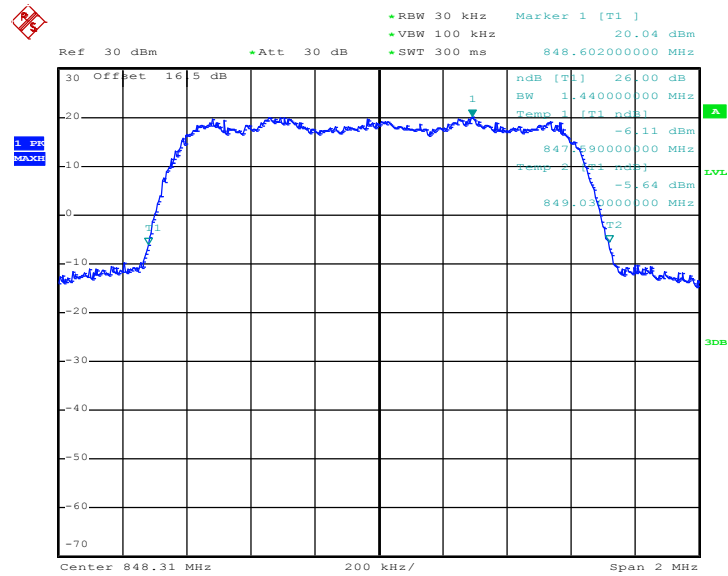


99% Occupied Bandwidth Plot on Channel 777 (848.31 MHz)



Date: 21.SEP.2012 12:03:44

26dB Bandwidth Plot on Channel 777 (848.31 MHz)

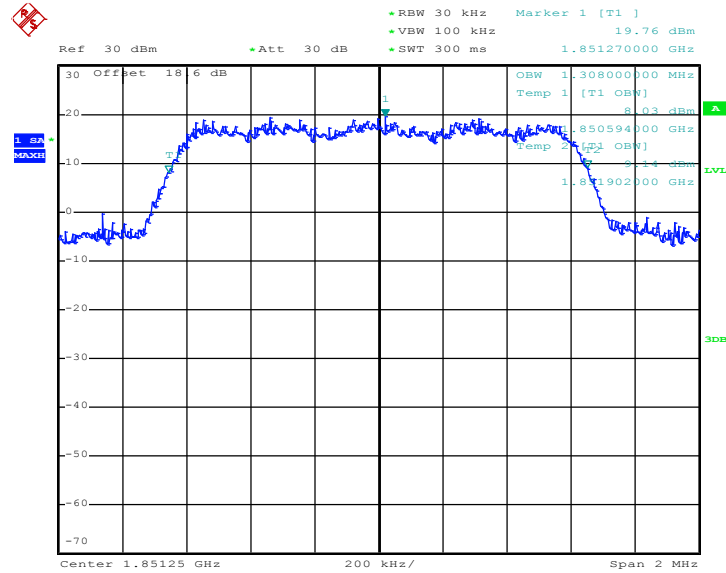


Date: 21.SEP.2012 11:55:19



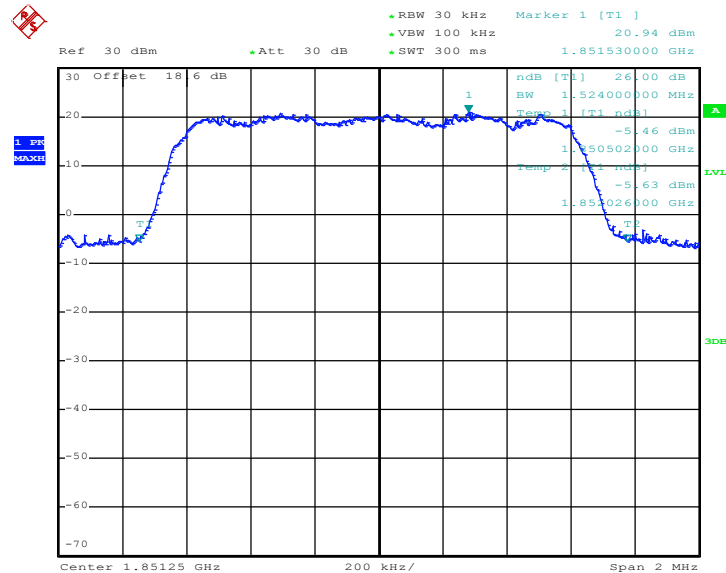
Band :	CDMA2000 BC1	Test Mode :	1xEV-DO Rev. 0_RTAP 153.6K
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99% Occupied Bandwidth Plot on Channel 25 (1851.24 MHz)



Date: 21.SEP.2012 10:42:36

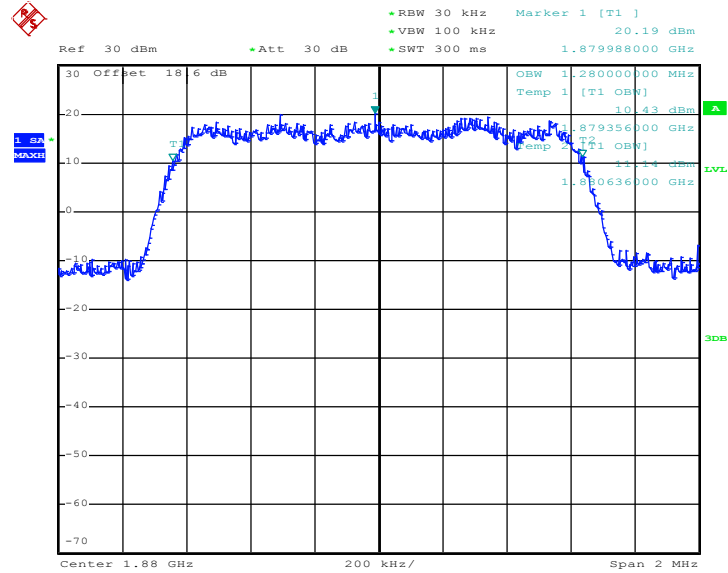
26dB Bandwidth Plot on Channel 25 (1851.24 MHz)



Date: 21.SEP.2012 09:48:40

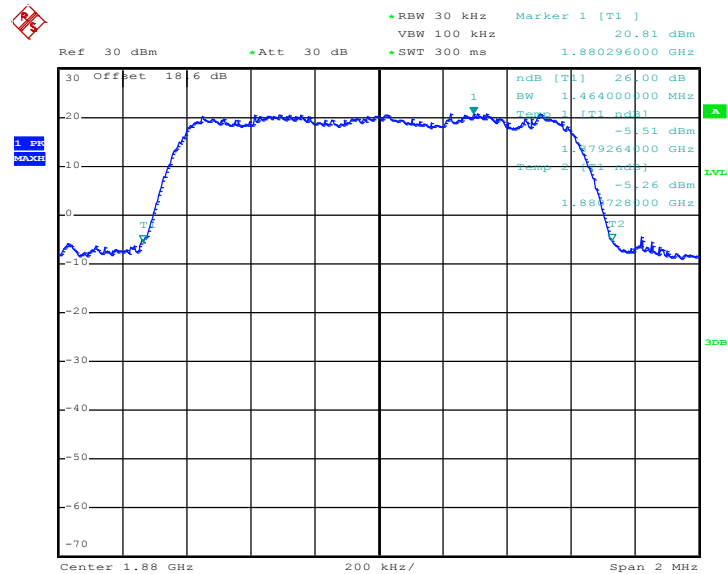


99% Occupied Bandwidth Plot on Channel 600 (1880.0 MHz)



Date: 21.SEP.2012 11:19:31

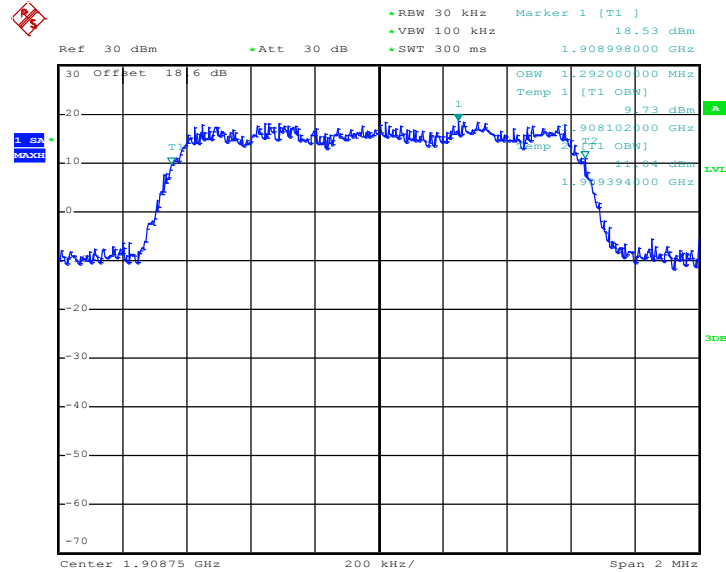
26dB Bandwidth Plot on Channel 600 (1880.0 MHz)



Date: 21.SEP.2012 10:01:30

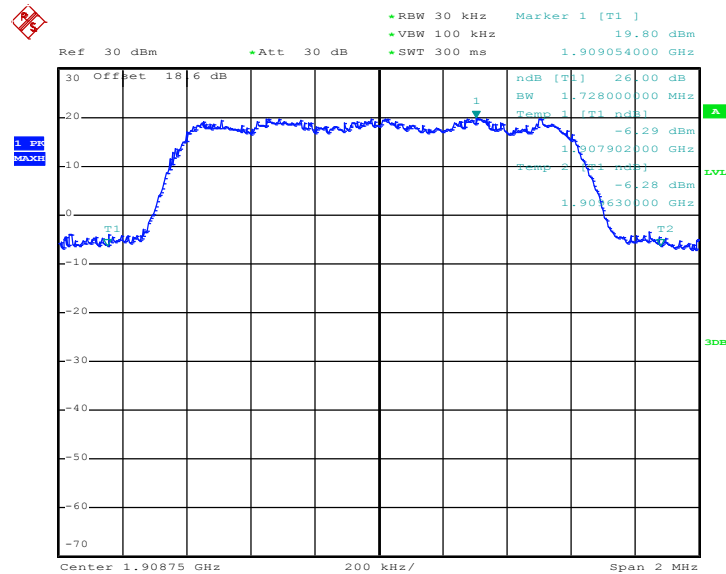


99% Occupied Bandwidth Plot on Channel 1175 (1908.75 MHz)



Date: 21.SEP.2012 11:20:42

26dB Bandwidth Plot on Channel 1175 (1908.75 MHz)

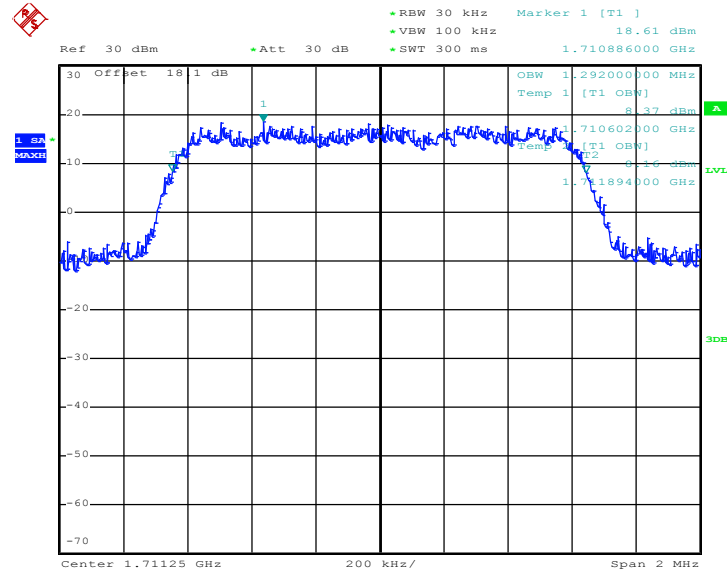


Date: 21.SEP.2012 10:03:09



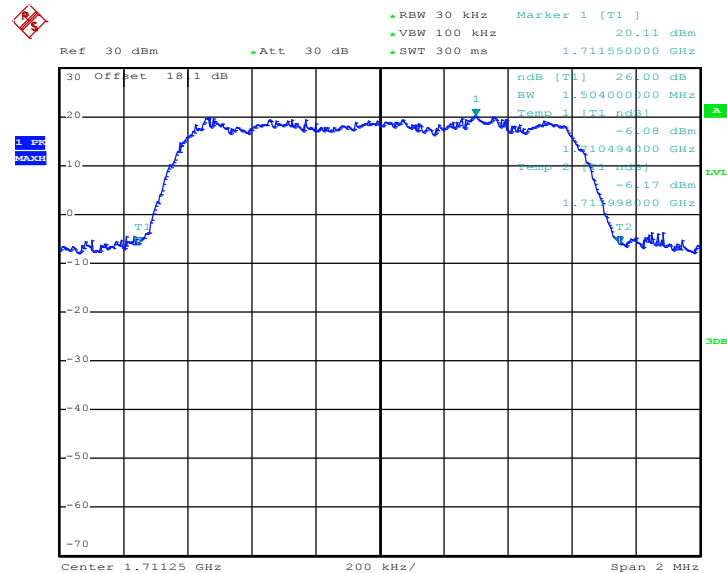
Band :	CDMA2000 BC15	Test Mode :	1xEV-DO Rev. 0_RTAP 153.6K
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99% Occupied Bandwidth Plot on Channel 25 (1711.25 MHz)



Date: 20.SEP.2012 16:22:55

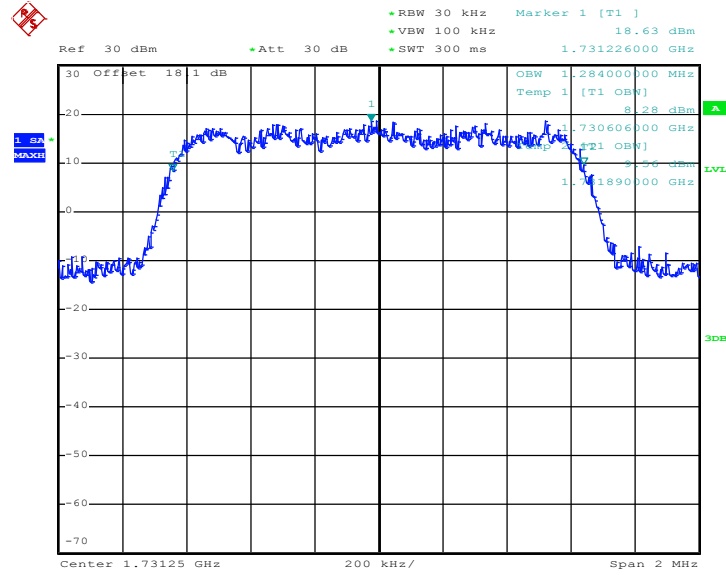
26dB Bandwidth Plot on Channel 25 (1711.25 MHz)



Date: 20.SEP.2012 16:18:44

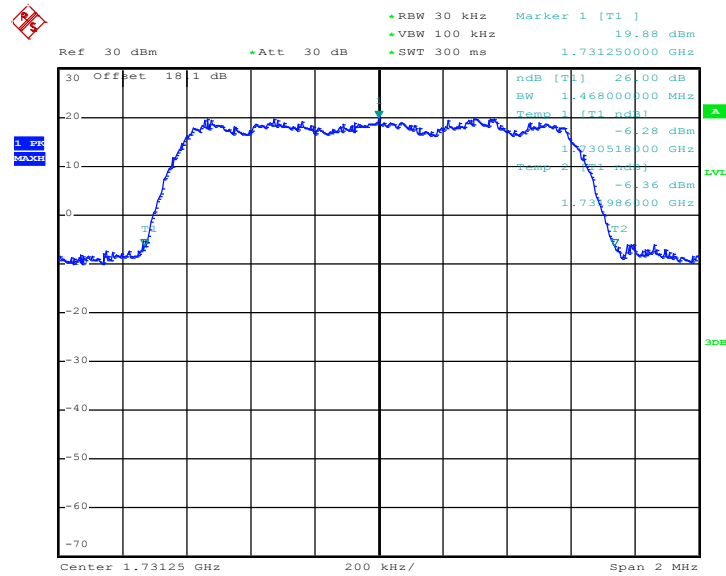


99% Occupied Bandwidth Plot on Channel 425 (1731.25 MHz)



Date: 20.SEP.2012 16:22:13

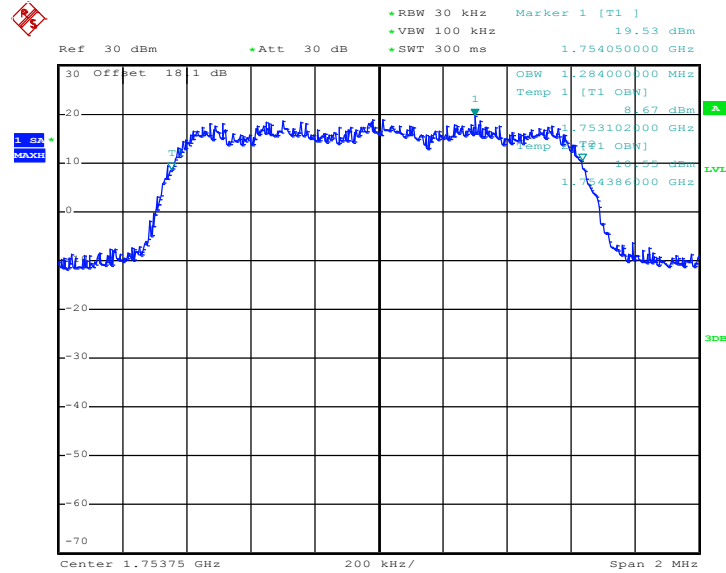
26dB Bandwidth Plot on Channel 425 (1731.25 MHz)



Date: 20.SEP.2012 16:19:41

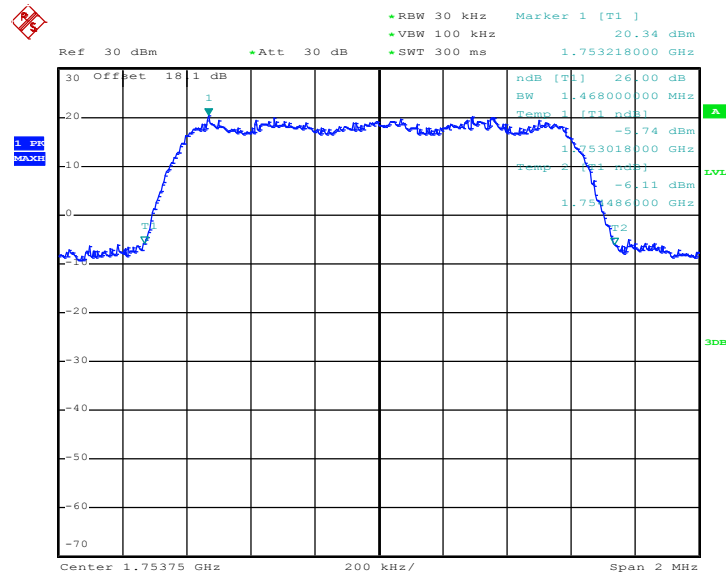


99% Occupied Bandwidth Plot on Channel 875 (1753.75 MHz)



Date: 20.SEP.2012 16:21:33

26dB Bandwidth Plot on Channel 875 (1753.75 MHz)



Date: 20.SEP.2012 16:20:24

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.

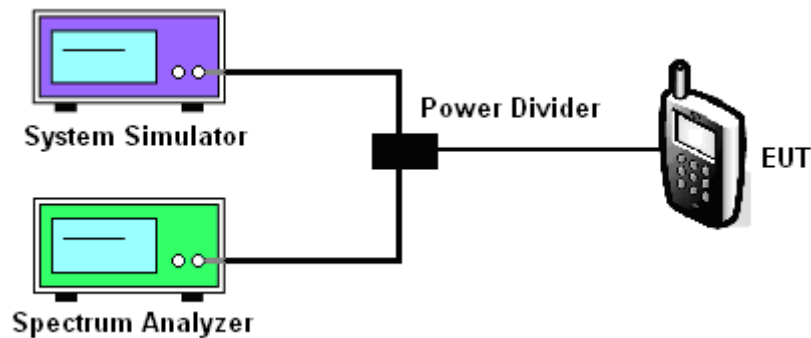
3.5.2 Measuring Instruments

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 band edges of low and high channels for the highest RF powers were measured. Setting RBW as roughly $BW/100$.
3. 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 $10 \cdot \log (1\% \text{ emission-BW}/\text{measurement RBW})$ was compensated.

3.5.4 Test Setup

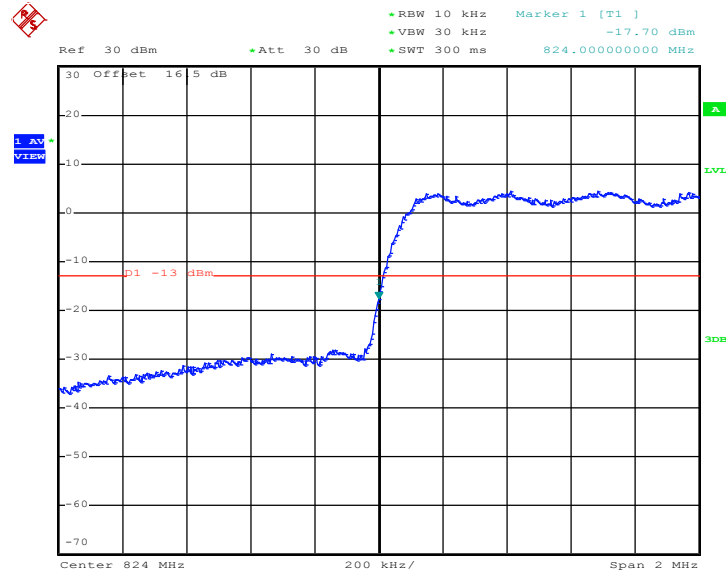




3.5.5 Test Result (Plots) of Conducted Band Edge

Band :	CDMA2000 BC0	Test Mode :	1xEV-DO Rev. 0_RTAP 153.6K
Correction Factor :	1.60dB	Maximum 26dB Bandwidth :	1.444MHz
Band Edge :	-16.10dBm	Measurement Value :	-17.70dBm

Lower Band Edge Plot on Channel 1013 (824.7 MHz)



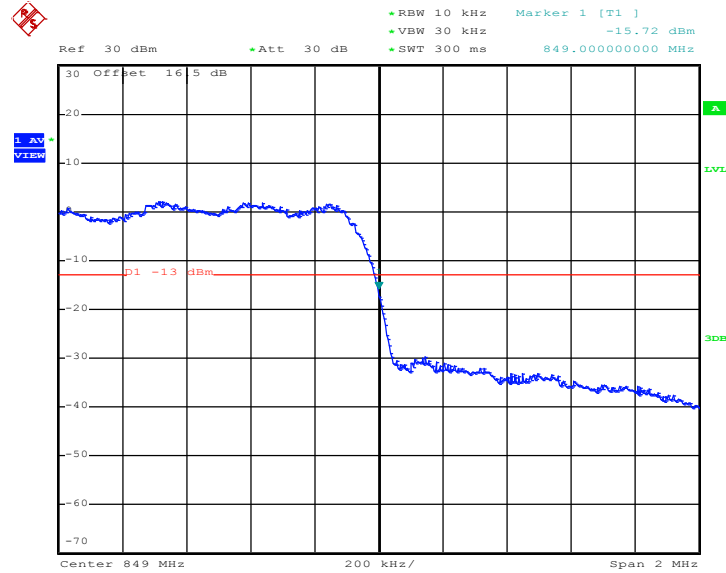
Date: 21.SEP.2012 11:59:21

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



Band :	CDMA2000 BC0	Test Mode :	1xEV-DO Rev. 0_RTAP 153.6K
Correction Factor :	1.60dB	Maximum 26dB Bandwidth:	1.444MHz
Band Edge :	-14.12dBm	Measurement Value :	-15.72dBm

Higher Band Edge Plot on Channel 777 (848.31 MHz)



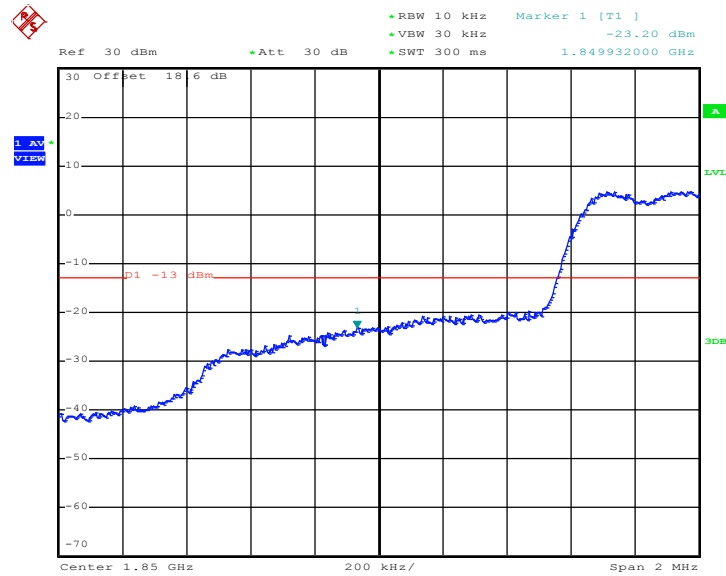
Date: 21.SEP.2012 14:09:07

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



Band :	CDMA2000 BC1	Test Mode :	1xEV-DO Rev. 0_RTAP 153.6K
Correction Factor :	2.38dB	Maximum 26dB Bandwidth:	1.728MHz
Band Edge :	-20.82dBm	Measurement Value :	-23.20dBm

Lower Band Edge Plot on Channel 25 (1851.25 MHz)



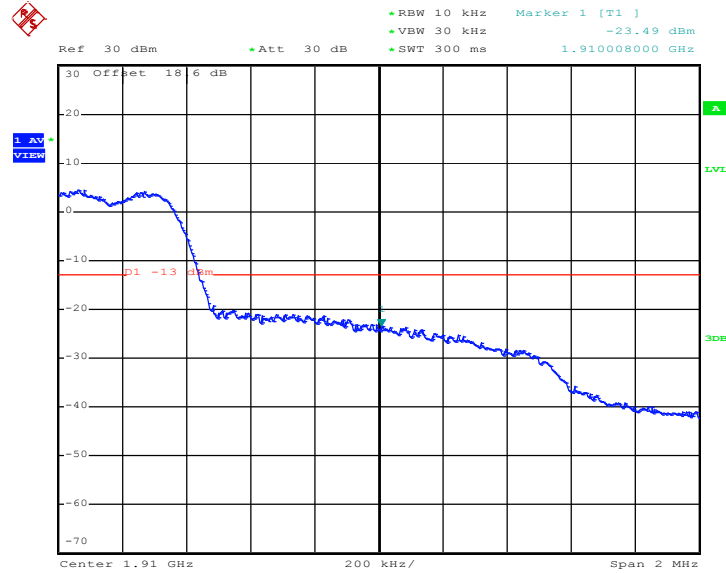
Date: 21.SEP.2012 10:20:11

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



Band :	CDMA2000 BC1	Test Mode :	1xEV-DO Rev. 0_RTAP 153.6K
Correction Factor :	2.38dB	Maximum 26dB Bandwidth:	1.728MHz
Band Edge :	-21.11dBm	Measurement Value :	-23.49dBm

Higher Band Edge Plot on Channel 1175 (1908.75 MHz)



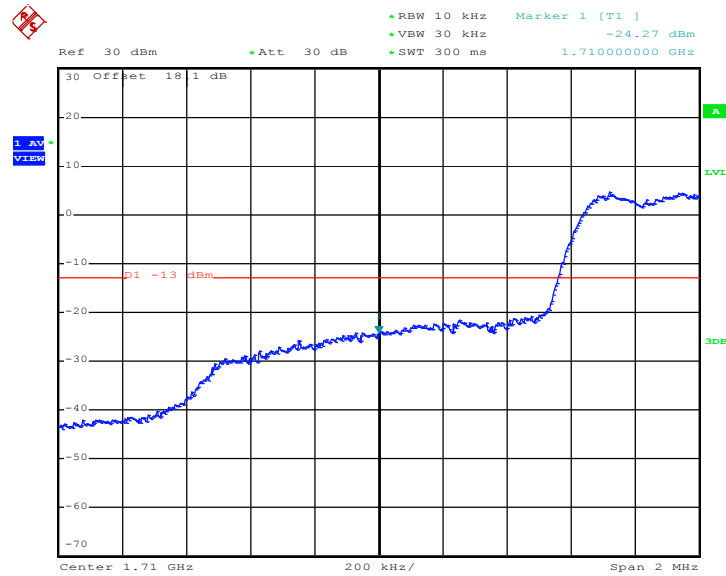
Date: 21.SEP.2012 10:09:14

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



Band :	CDMA2000 BC15	Test Mode :	1xEV-DO Rev. 0_RTAP 153.6K
Correction Factor :	1.77dB	Maximum 26dB Bandwidth:	1.504MHz
Band Edge :	-22.50dBm	Measurement Value :	-24.27dBm

Lower Band Edge Plot on Channel 25 (1711.25 MHz)



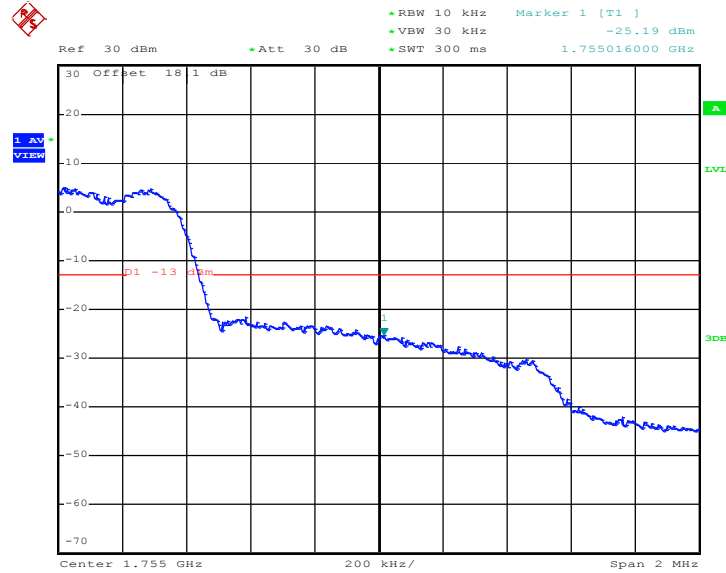
Date: 20.SEP.2012 17:01:38

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



Band :	CDMA2000 BC15	Test Mode :	1xEV-DO Rev. 0_RTAP 153.6K
Correction Factor :	1.77dB	Maximum 26dB Bandwidth:	1.504MHz
Band Edge :	-23.42dBm	Measurement Value :	-25.19dBm

Higher Band Edge Plot on Channel 875 (1753.75 MHz)



Date: 20.SEP.2012 16:59:53

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.

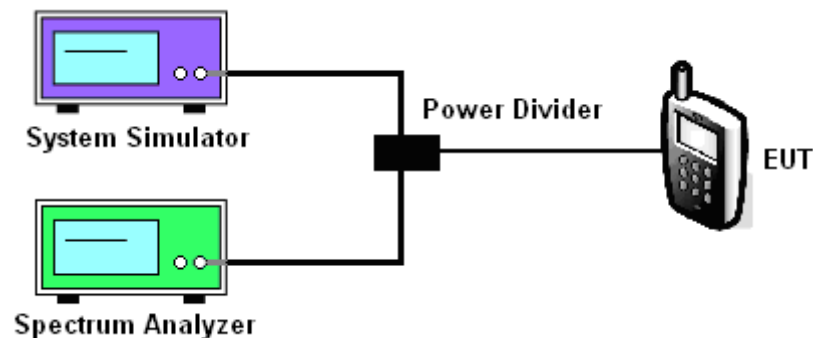
3.6.2 Measuring Instruments

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 middle channel for the highest RF power within the transmitting frequency was measured.
3. The conducted spurious emission for the whole frequency range was taken.

3.6.4 Test Setup

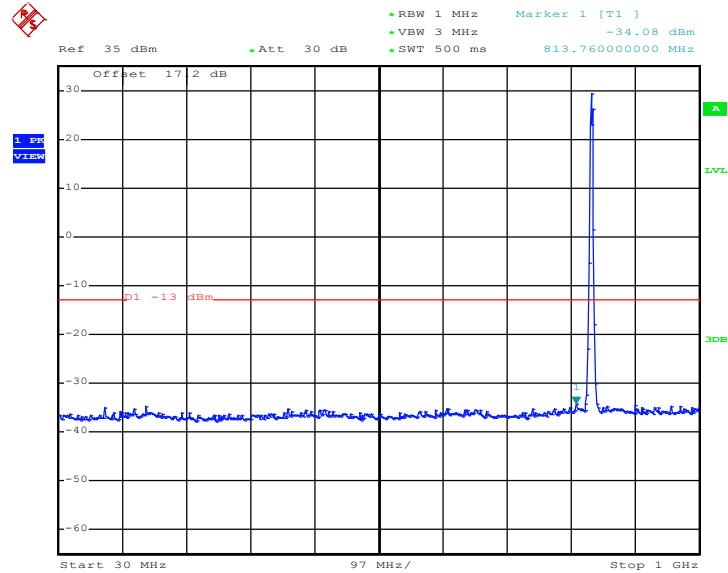




3.6.5 Test Result (Plots) of Conducted Spurious Emission

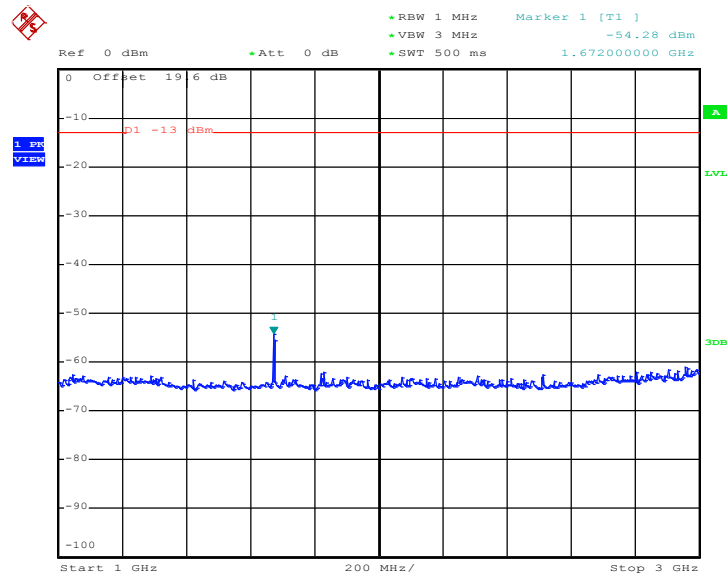
Band :	CDMA2000 BC0	Channel	384
Test Mode :	1xEV-DO Rev. 0_RTAP 153.6K	Frequency :	836.52 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 21.SEP.2012 12:11:41

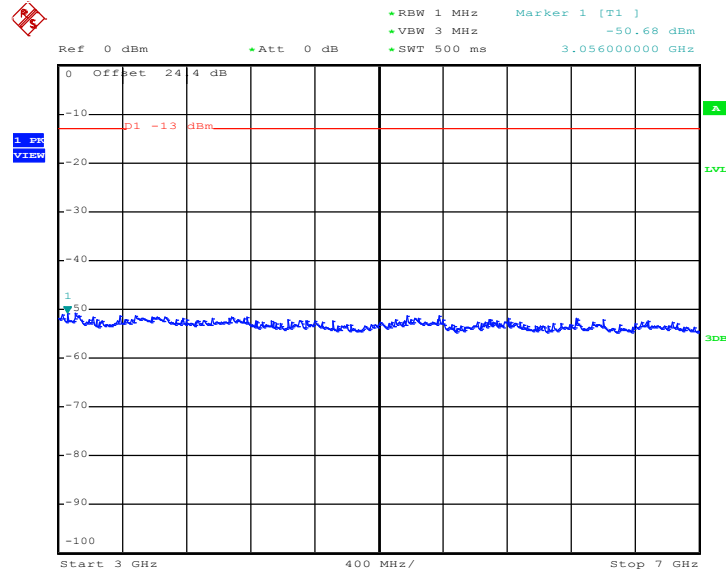
Conducted Spurious Emission Plot between 1GHz ~ 3GHz



Date: 21.SEP.2012 12:11:58

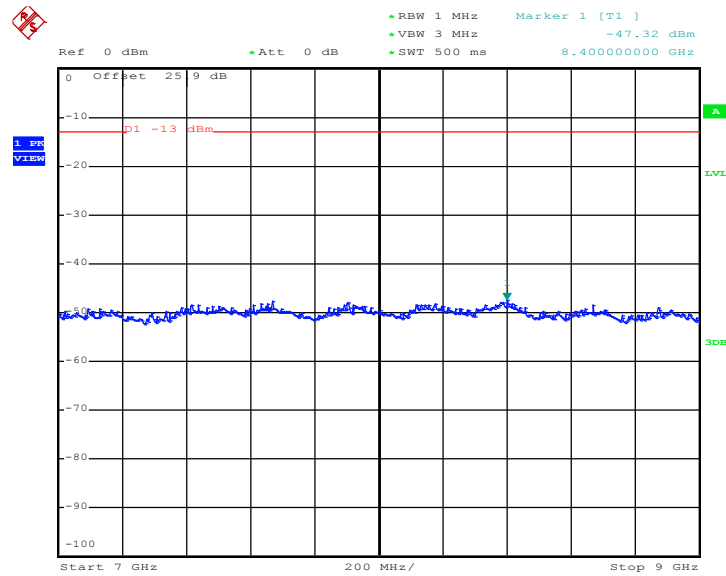


Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 21.SEP.2012 12:12:11

Conducted Spurious Emission Plot between 7GHz ~ 9GHz

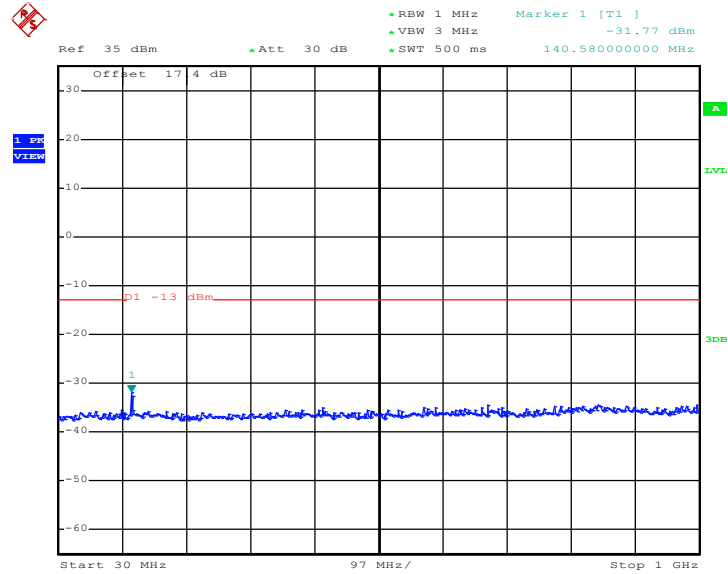


Date: 21.SEP.2012 12:12:23



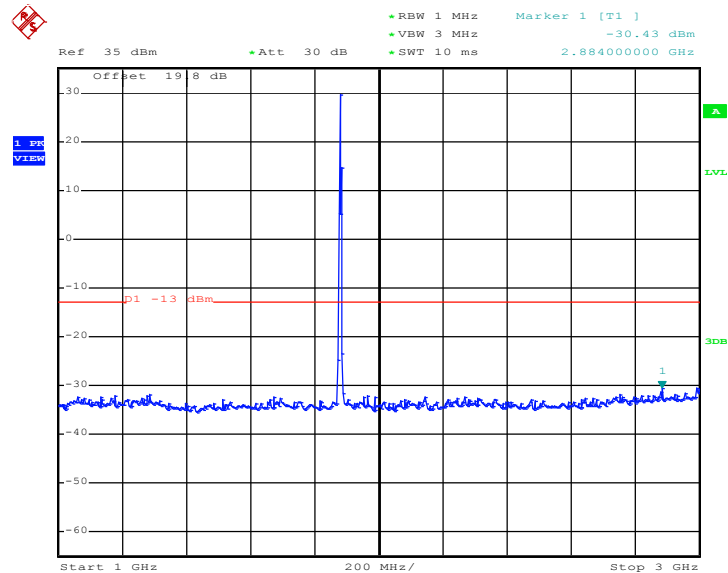
Band :	CDMA2000 BC1	Channel	600
Test Mode :	1xEV-DO Rev. 0_RTAP 153.6K	Frequency :	1880.0 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 21.SEP.2012 11:34:40

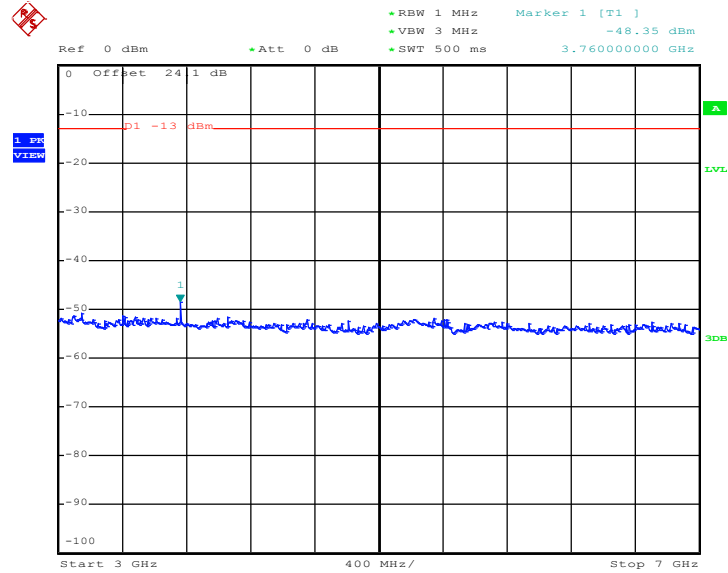
Conducted Spurious Emission Plot between 1GHz ~ 3GHz



Date: 21.SEP.2012 11:38:06

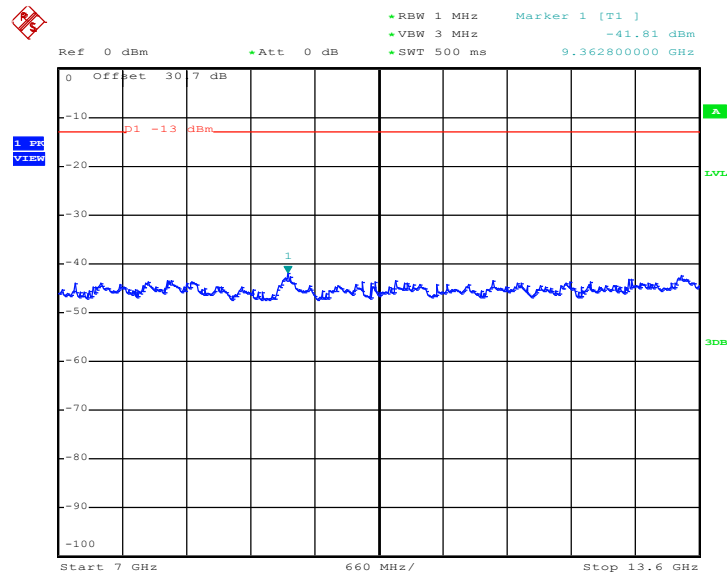


Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 21.SEP.2012 11:35:08

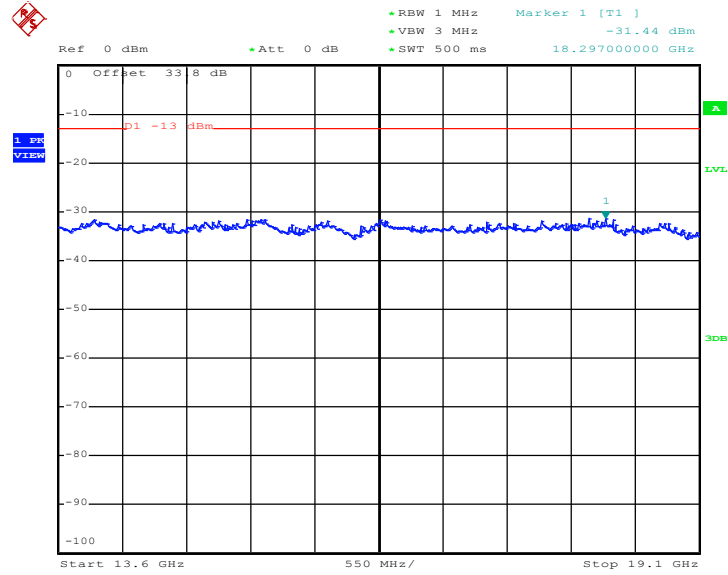
Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz



Date: 21.SEP.2012 11:35:21



Conducted Spurious Emission Plot between 13.6GHz ~ 19.1GHz

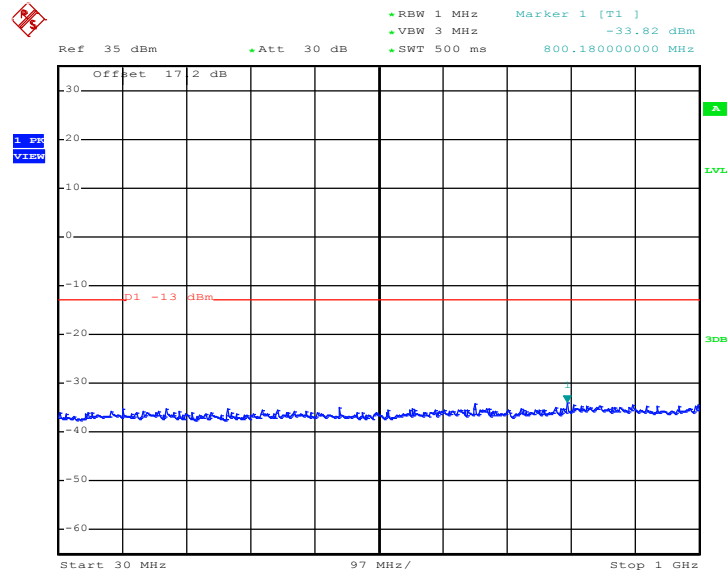


Date: 21.SEP.2012 11:35:33



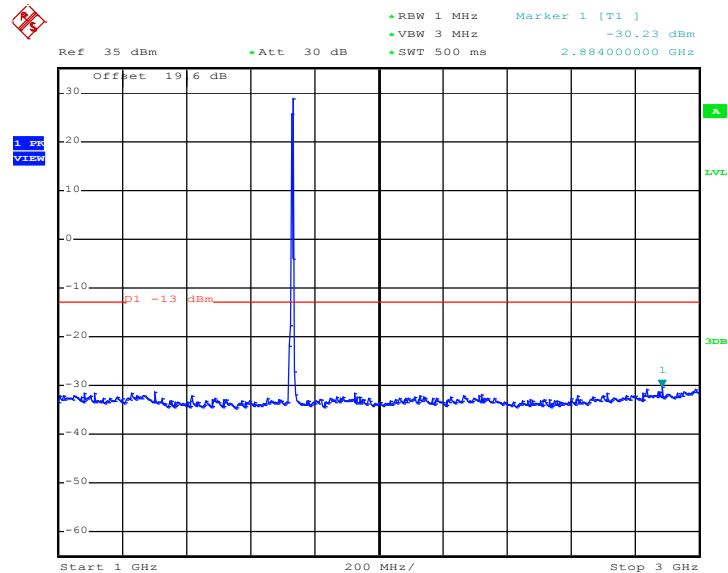
Band :	CDMA2000 BC15	Channel	425
Test Mode :	1xEV-DO Rev. 0_RTAP 153.6K	Frequency :	1731.25 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 20.SEP.2012 17:17:15

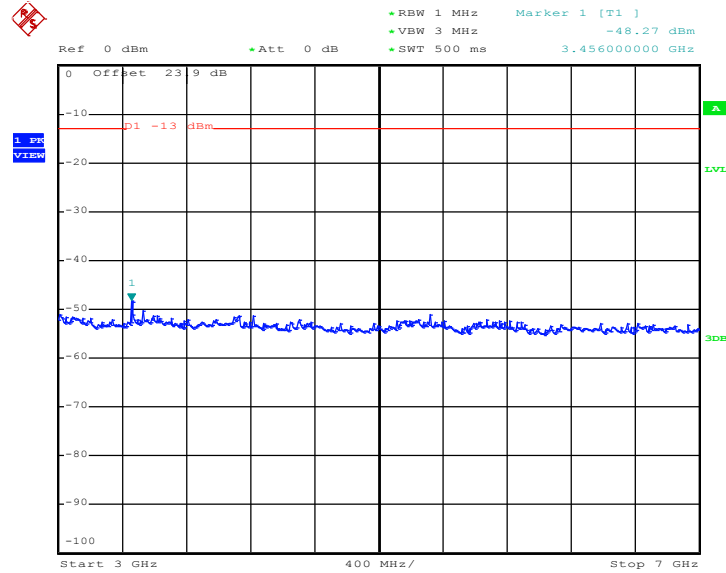
Conducted Spurious Emission Plot between 1GHz ~ 3GHz



Date: 20.SEP.2012 17:20:51

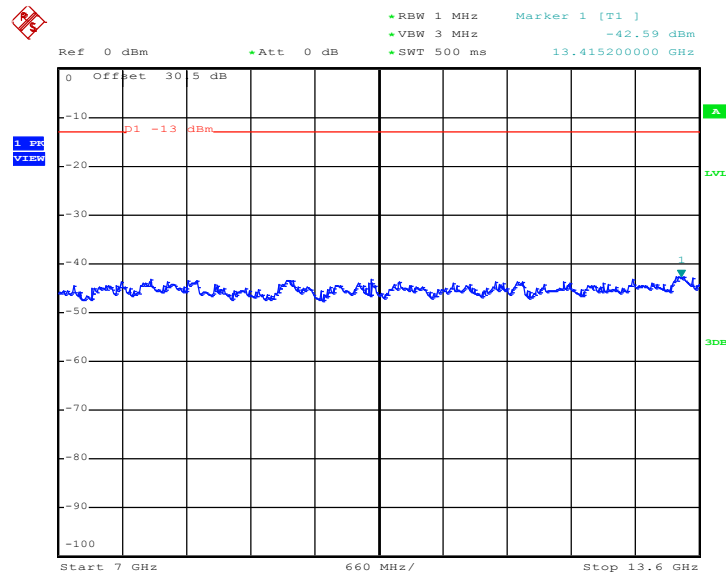


Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 20.SEP.2012 17:17:52

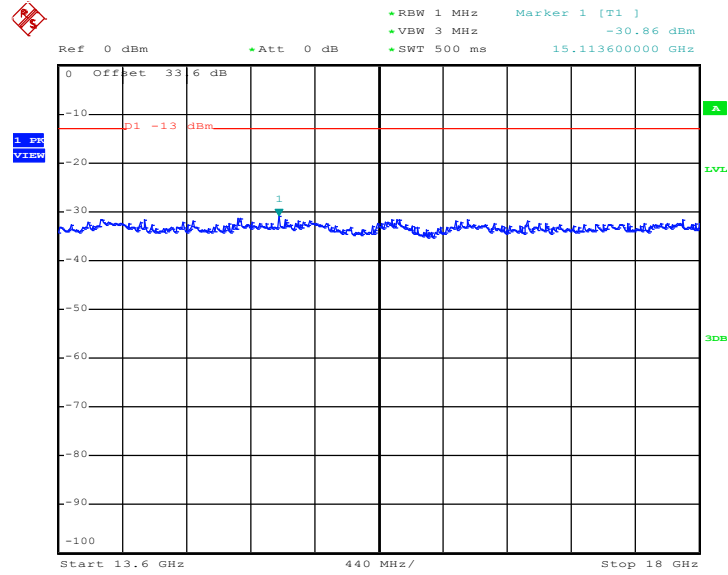
Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz



Date: 20.SEP.2012 17:18:04



Conducted Spurious Emission Plot between 13.6GHz ~ 18GHz



Date: 20.SEP.2012 17:18:17

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

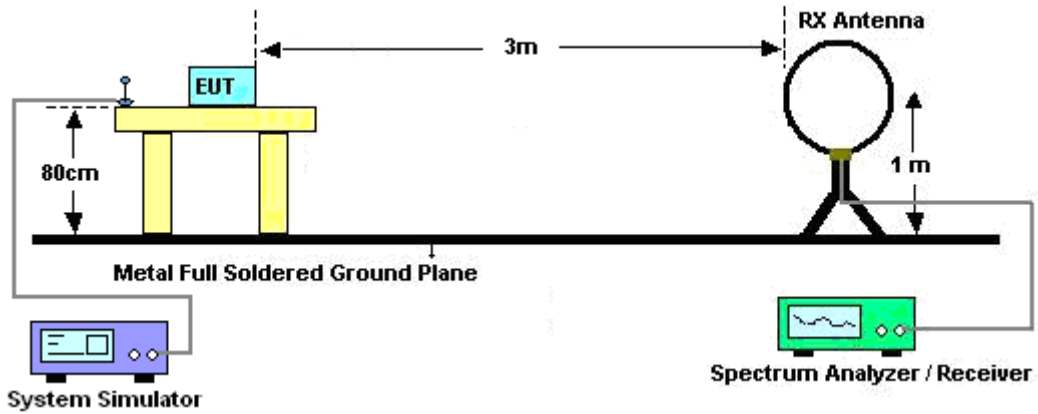
See list of measuring instruments of this test report.

3.7.3 Test Procedures

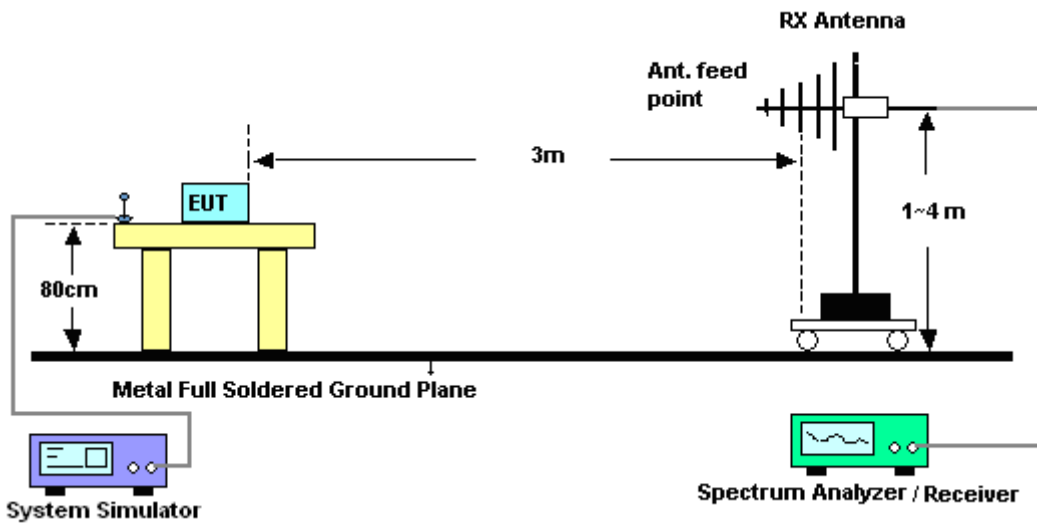
1. The EUT was placed on a rotatable wooden table with 0.8 meter above ground.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving 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

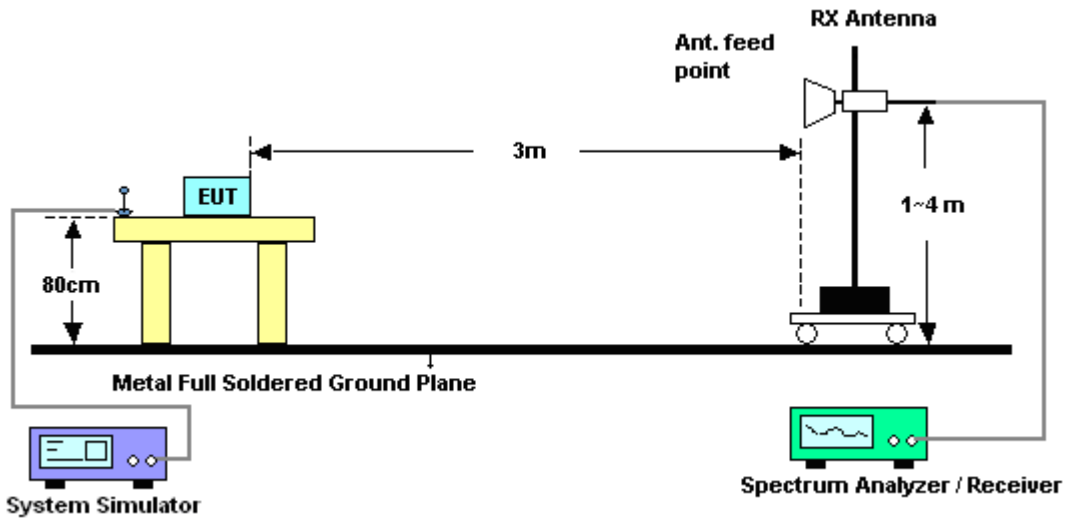
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



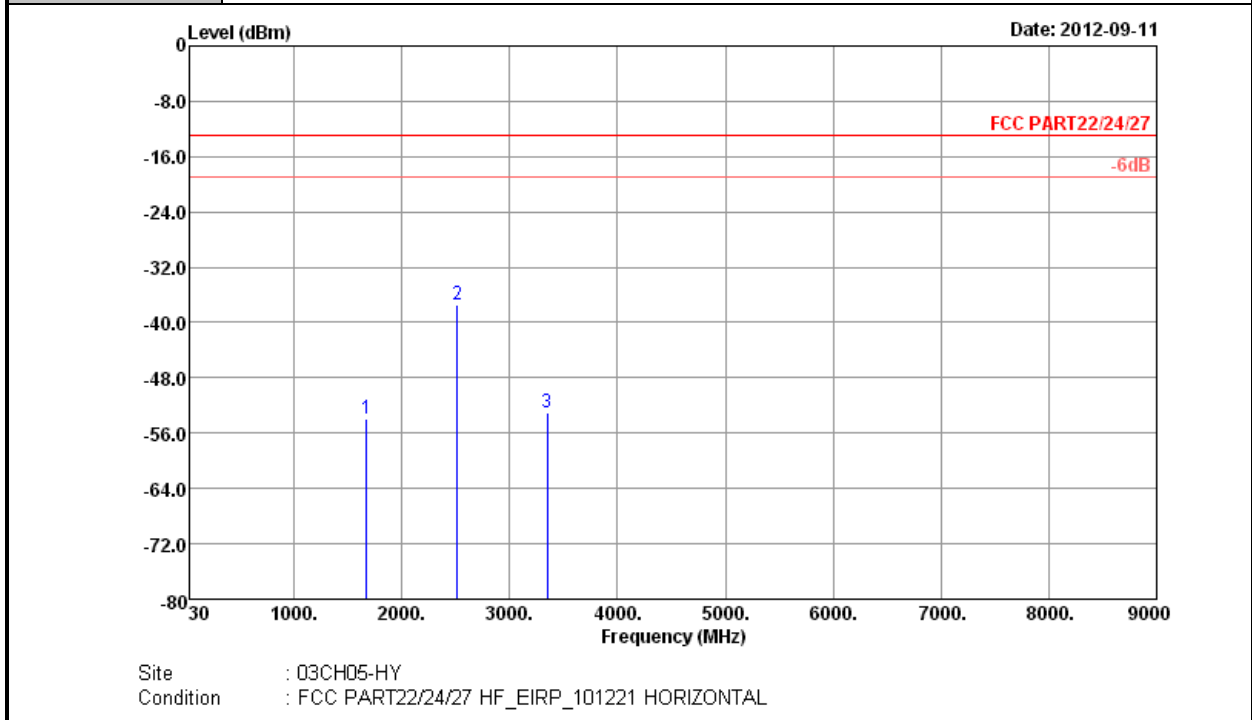
3.7.5 Test Results of Radiated Emissions (9 KHz ~ 30 MHz)

The low frequency, which started from 9 KHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.



3.7.6 Test Result of Field Strength of Spurious Radiated

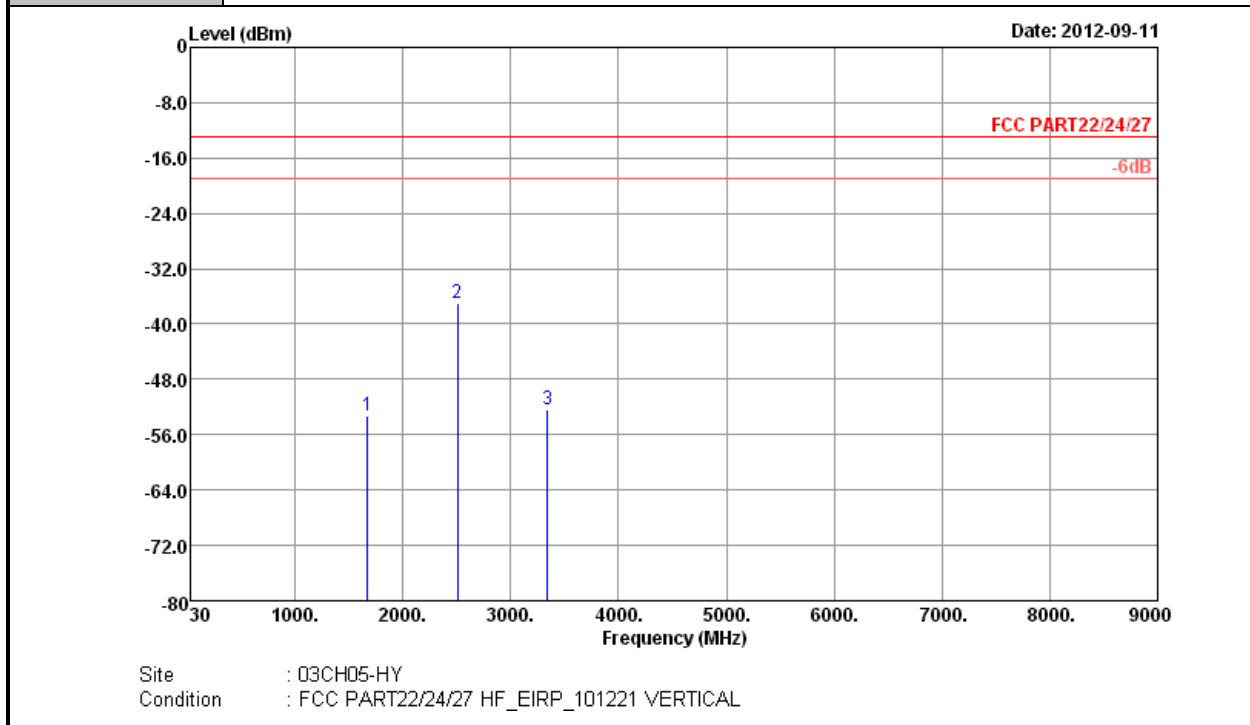
Band :	CDMA2000 BC0	Temperature :	22~24°C
Test Mode :	1xEV-DO Rev. 0_RTAP 153.6K	Relative Humidity :	51~53%
Test Engineer :	David Yang	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



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	-53.94	-13	-40.94	-59.95	-55.7	1.35	5.25	H	Pass
2512	-37.52	-13	-24.52	-46.84	-39.9	1.58	6.12	H	Pass
3346	-52.95	-13	-39.95	-64.47	-56.8	1.94	7.94	H	Pass



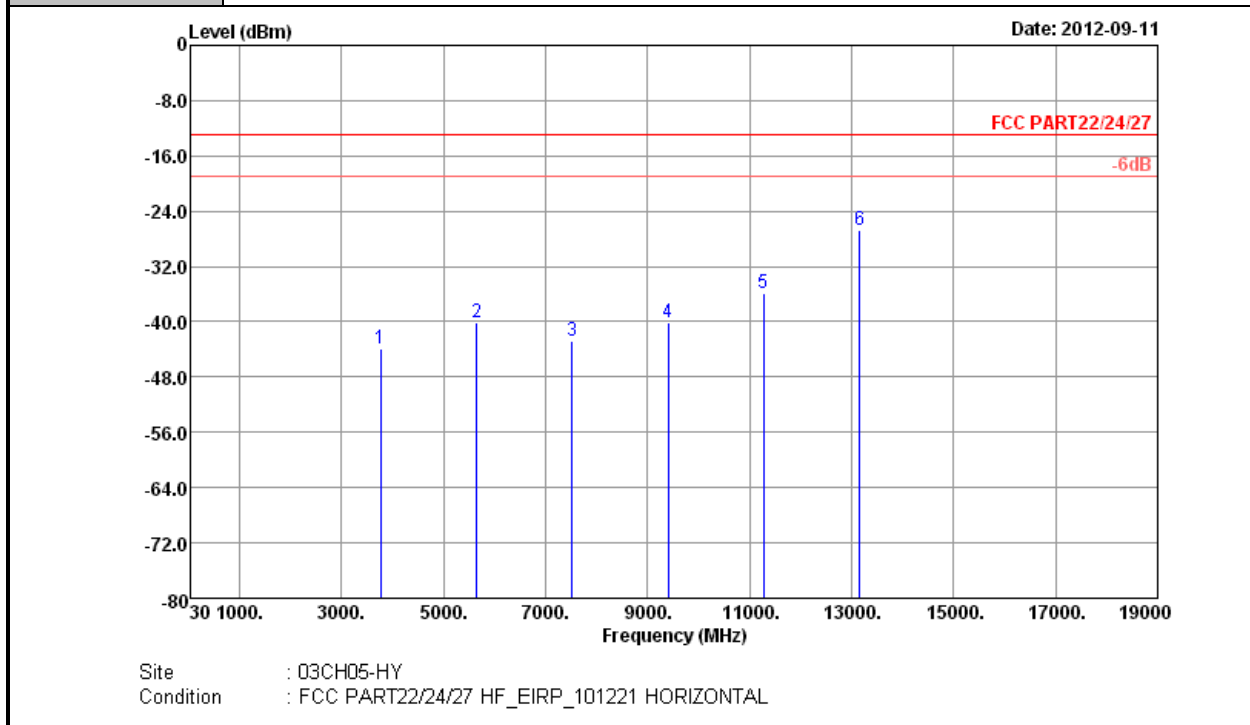
Band :	CDMA2000 BC0	Temperature :	22~24°C
Test Mode :	1xEV-DO Rev. 0_RTAP 153.6K	Relative Humidity :	51~53%
Test Engineer :	David Yang	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



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	-53.34	-13	-40.34	-59.33	-55.1	1.35	5.25	V	Pass
2509	-36.92	-13	-23.92	-46.2	-39.3	1.58	6.12	V	Pass
3345	-52.45	-13	-39.45	-64.06	-56.3	1.94	7.94	V	Pass



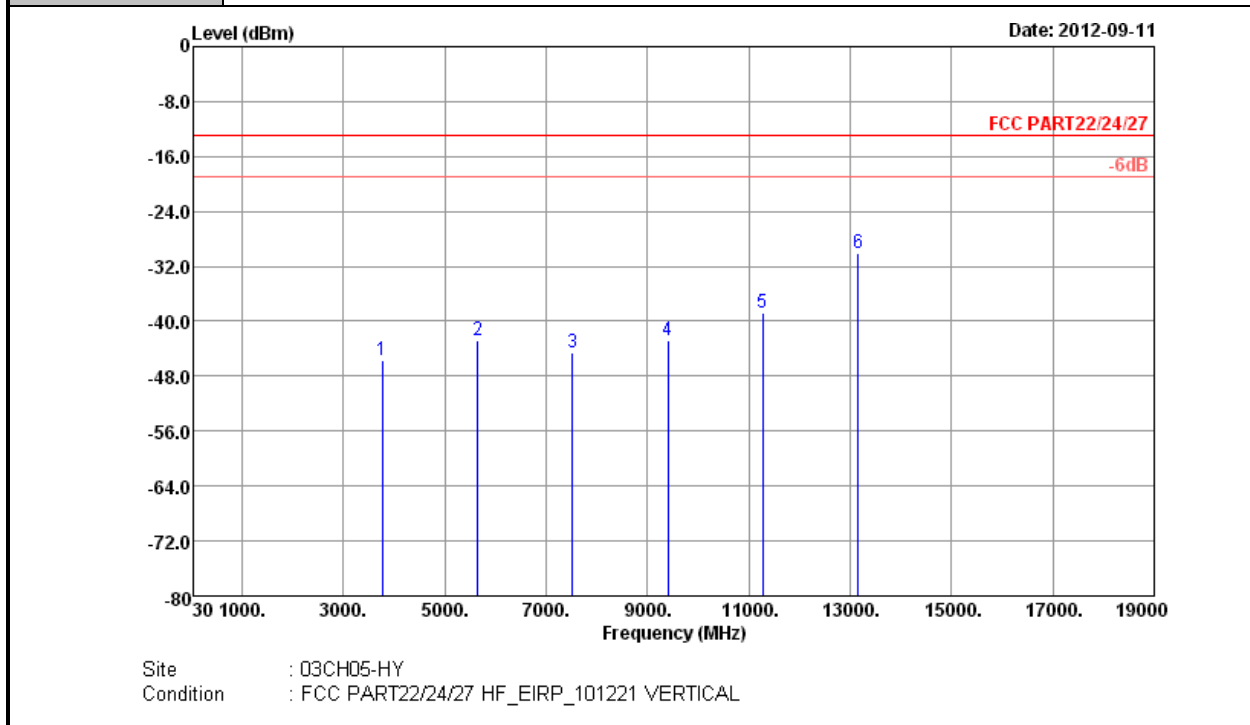
Band :	CDMA2000 BC1	Temperature :	22~24°C
Test Mode :	1xEV-DO Rev. 0_RTAP 153.6K	Relative Humidity :	51~53%
Test Engineer :	David Yang	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



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	-43.79	-13	-30.79	-57.29	-50.5	2.00	8.71	H	Pass
5640	-40.06	-13	-27.06	-58.91	-48.7	2.13	10.77	H	Pass
7520	-42.76	-13	-29.76	-64.67	-52.3	2.68	12.22	H	Pass
9400	-40.09	-13	-27.09	-64.01	-50.6	2.87	13.38	H	Pass
11276	-35.98	-13	-22.98	-63	-46.7	2.64	13.36	H	Pass
13160	-26.77	-13	-13.77	-57.39	-37.6	2.86	13.69	H	Pass



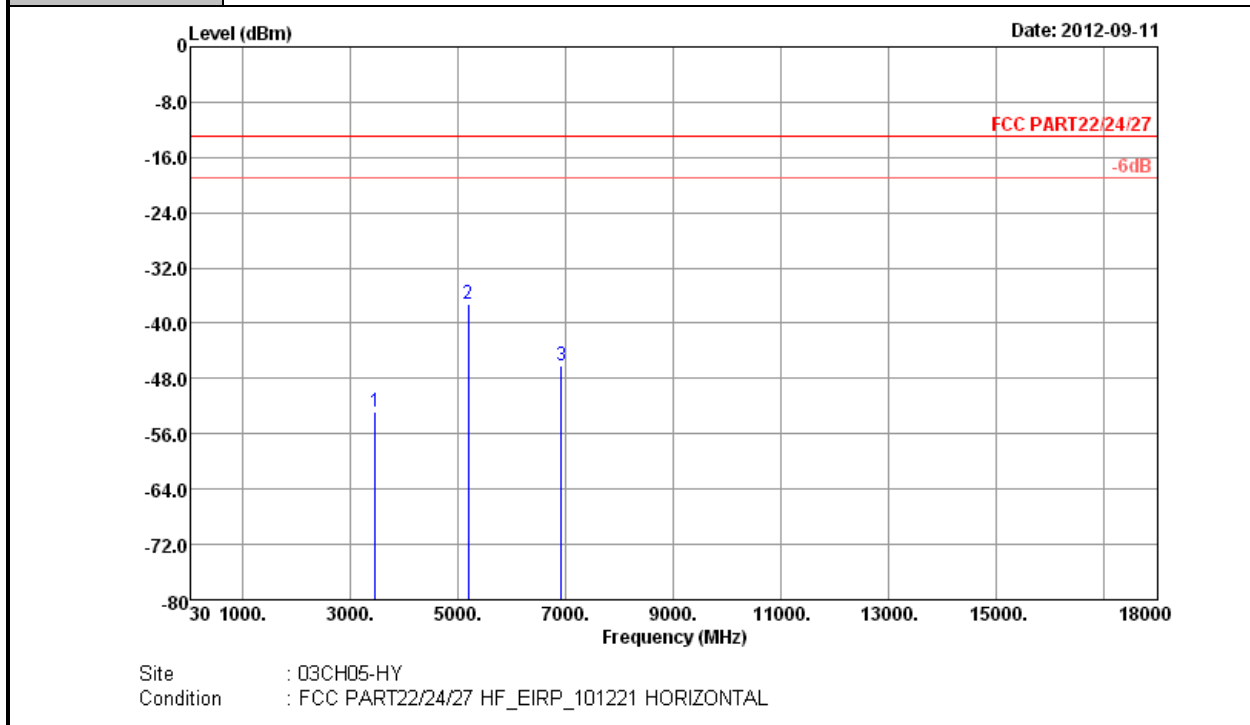
Band :	CDMA2000 BC1	Temperature :	22~24°C
Test Mode :	1xEV-DO Rev. 0_RTAP 153.6K	Relative Humidity :	51~53%
Test Engineer :	David Yang	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



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	-45.59	-13	-32.59	-59.08	-52.3	2.00	8.71	V	Pass
5640	-42.86	-13	-29.86	-61.78	-51.5	2.13	10.77	V	Pass
7520	-44.46	-13	-31.46	-66.42	-54	2.68	12.22	V	Pass
9400	-42.89	-13	-29.89	-66.82	-53.4	2.87	13.38	V	Pass
11276	-38.88	-13	-25.88	-65.87	-49.6	2.64	13.36	V	Pass
13160	-30.17	-13	-17.17	-60.75	-41	2.86	13.69	V	Pass



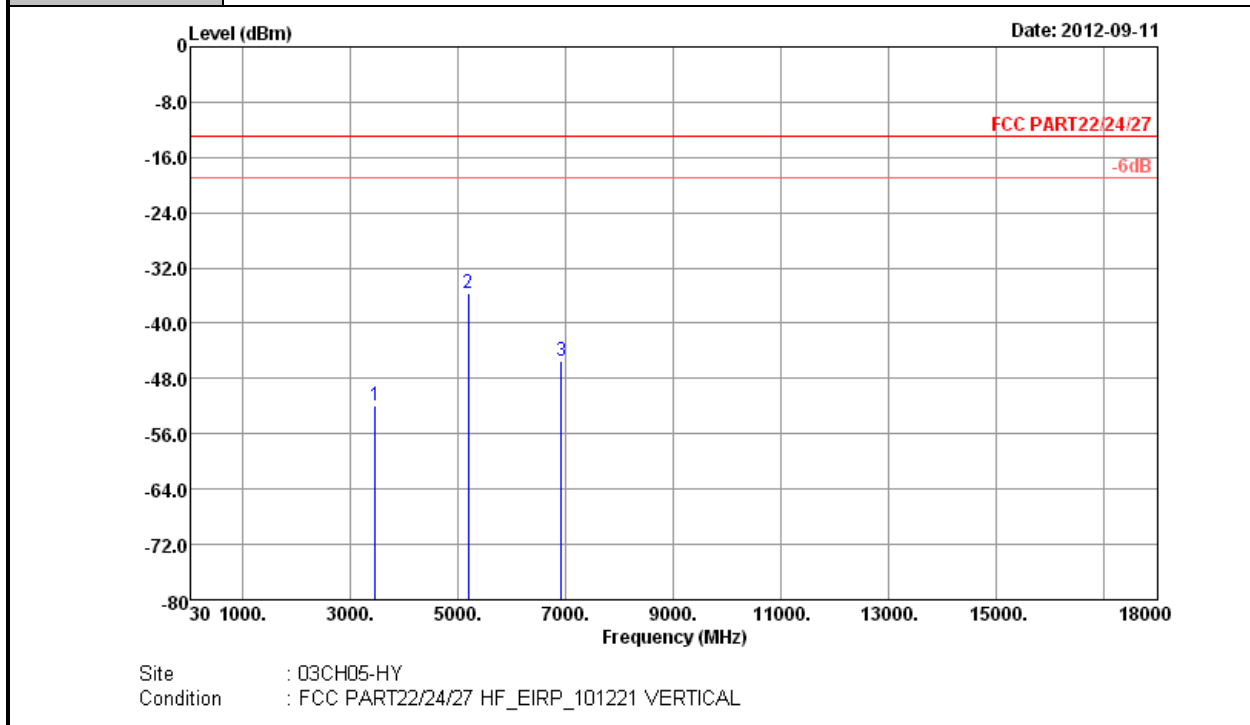
Band :	CDMA2000 BC15	Temperature :	22~24°C
Test Mode :	1xEV-DO Rev. 0_RTAP 153.6K	Relative Humidity :	51~53%
Test Engineer :	David Yang	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



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
3464	-52.82	-13	-39.82	-64.89	-59.1	2.01	8.29	H	Pass
5196	-37.24	-13	-24.24	-55.05	-45.7	2.09	10.56	H	Pass
6924	-46.09	-13	-33.09	-67.43	-55.2	2.38	11.50	H	Pass



Band :	CDMA2000 BC15	Temperature :	22~24°C
Test Mode :	1xEV-DO Rev. 0_RTAP 153.6K	Relative Humidity :	51~53%
Test Engineer :	David Yang	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



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
3464	-51.92	-13	-38.92	-63.98	-58.2	2.01	8.29	V	Pass
5192	-35.64	-13	-22.64	-53.54	-44.1	2.09	10.56	V	Pass
6924	-45.49	-13	-32.49	-67.13	-54.6	2.38	11.50	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.

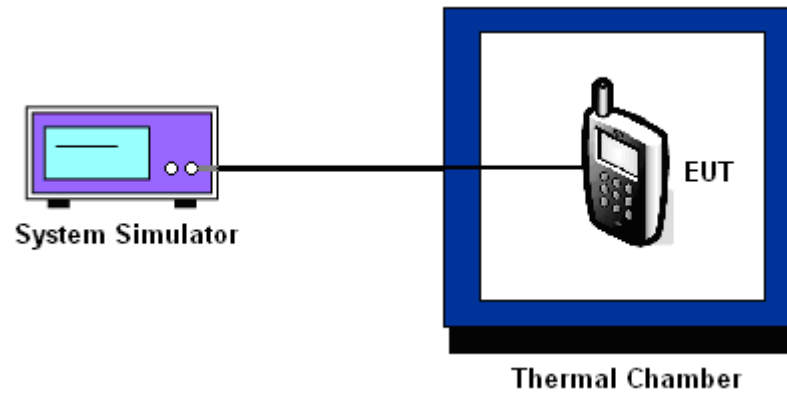
3.8.3 Test Procedures for Temperature Variation

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 1xEV-DO Rev. 0_RTAP 153.6K	Channel :	384
Limit (ppm) :	2.5	Frequency :	836.52 MHz

Temperature (°C)	Freq. Dev. (Hz)	Deviation (ppm)	Result
-30	-11	-0.01	PASS
-20	-10	-0.01	
-10	-11	-0.01	
0	-12	-0.01	
10	-13	-0.02	
20	-11	-0.01	
30	-14	-0.02	
40	-12	-0.01	
50	-11	-0.01	

Band :	CDMA2000 BC1 1xEV-DO Rev. 0_RTAP 153.6K	Channel :	600
Limit (ppm) :	2.5	Frequency :	1880.0 MHz

Temperature (°C)	Freq. Dev. (Hz)	Deviation (ppm)	Result
-30	11	0.01	PASS
-20	14	0.01	
-10	12	0.01	
0	13	0.01	
10	11	0.01	
20	11	0.01	
30	13	0.01	
40	12	0.01	
50	13	0.01	



Band :	CDMA2000 BC15 1xEV-DO Rev. 0_RTAP 153.6K	Channel :	425
Limit (ppm) :	2.5	Frequency :	1731.25 MHz

Temperature (°C)	Freq. Dev. (Hz)	Deviation (ppm)	Result
-30	9	0.00	PASS
-20	12	0.01	
-10	14	0.01	
0	9	0.00	
10	10	0.01	
20	12	0.01	
30	11	0.01	
40	13	0.01	
50	11	0.01	



3.8.7 Test Result of Voltage Variation

Band & Channel	Mode	Voltage (Volt)	Freq. Dev. (Hz)	Deviation (ppm)	Limit (ppm)	Result
CDMA2000 BC0 CH384	1xEV-DO Rev. 0 RTAP 153.6K	3.8	-10	-0.01	2.5	PASS
		BEP	-10	-0.01		
		4.2	-9	-0.01		
CDMA2000 BC1 CH600	1xEV-DO Rev. 0 RTAP 153.6K	3.8	8	0.00	2.5	PASS
		BEP	9	0.00		
		4.2	9	0.00		
CDMA2000 BC15 CH425	1xEV-DO Rev. 0 RTAP 153.6K	3.8	11	0.01	2.5	PASS
		BEP	14	0.01		
		4.2	12	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
System Simulator	R&S	CMU200	117995	N/A	Jul. 30, 2012	Sep. 20, 2012 ~ Sep. 21, 2012	Jul. 29, 2013	Conducted (TH02-HY)
Spectrum Analyzer	R&S	FSP40	100055	9kHz~40GHz	Jun. 06, 2012	Sep. 20, 2012 ~ Sep. 21, 2012	Jun. 05, 2013	Conducted (TH02-HY)
Thermal Chamber	Ten Billion	TTH-D3SP	TBN-930701	N/A	Jul. 23, 2012	Sep. 20, 2012 ~ Sep. 21, 2012	Jul. 22, 2013	Conducted (TH02-HY)
Spectrum Analyzer	R&S	ESU26	100390	20Hz ~ 26.5GHz	Dec. 22, 2011	Sep. 11, 2012 ~ Sep. 12, 2012	Dec. 21, 2012	Radiation (03CH05-HY)
Bilog Antenna	SCHAFFNER	CBL6111C	2725	30MHz ~ 2GHz	Oct. 22, 2011	Sep. 11, 2012 ~ Sep. 12, 2012	Oct. 21, 2012	Radiation (03CH05-HY)
Turn Table	HD	Deis HD 2000	420/611	0 ~ 360 degree	N/A	Sep. 11, 2012 ~ Sep. 12, 2012	N/A	Radiation (03CH05-HY)
Antenna Mast	HD	MA 240	240/666	1 m ~ 4 m	N/A	Sep. 11, 2012 ~ Sep. 12, 2012	N/A	Radiation (03CH05-HY)
Horn Antenna	ESCO	3117	66584	1GHz~18GHz	Aug. 10, 2012	Sep. 11, 2012 ~ Sep. 12, 2012	Aug. 09, 2013	Radiation (03CH05-HY)
Amplifier	Agilent	310N	186713	9KHz ~ 1GHz	Apr. 11, 2012	Sep. 11, 2012 ~ Sep. 12, 2012	Apr. 10, 2013	Radiation (03CH05-HY)
Pre Amplifier	Agilent	8449B	3008A02665	1GHz~26.5GHz	Aug. 28, 2012	Sep. 11, 2012 ~ Sep. 12, 2012	Aug. 27, 2013	Radiation (03CH05-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA91702 51	15GHz ~ 40GHz	Oct. 21, 2011	Sep. 11, 2012 ~ Sep. 12, 2012	Oct. 20, 2012	Radiation (03CH05-HY)
Loop Antenna	R&S	HFH2-Z2	860004/001	9KHz ~ 30MHz	Jul. 03, 2012	Sep. 11, 2012 ~ Sep. 12, 2012	Jul. 02, 2014	Radiation (03CH05-HY)
System Simulator	Agilent	E5515C (8960)	MY4836082 0	N/A	Jan. 05, 2012	Sep. 11, 2012 ~ Sep. 12, 2012	Jan. 04, 2014	Radiation (03CH05-HY)



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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