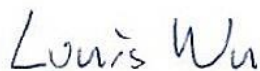


FCC RF Test Report

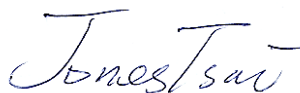
APPLICANT : Motorola Solutions, Inc.
EQUIPMENT : Touch Computer
BRAND NAME : Motorola
MODEL NAME : TC55CH
FCC ID : UZ7TC55CH
STANDARD : FCC 47 CFR Part 2, 22(H), 24(E)
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)

The product was received on Jan. 08, 2014 and testing was completed on Jan. 23, 2014. 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 to be compliant 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: Louis Wu / Manager



Approved by: Jones Tsai / Manager



SPORTON INTERNATIONAL INC.

No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.

SPORTON INTERNATIONAL INC.

TEL : 886-3-327-3456

FAX : 886-3-328-4978

FCC ID : UZ7TC55CH

Page Number : 1 of 96

Report Issued Date : Feb. 10, 2014

Report Version : Rev. 01



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG3O1108-01A	Rev. 01	Initial issue of report	Feb. 10, 2014

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)	Peak-to-Average Ratio	< 13 dB	PASS	-
3.3	§22.913(a)(2)	Effective Radiated Power	< 7 Watts	PASS	-
3.3	§24.232(c)	Equivalent Isotropic Radiated Power	< 2 Watts	PASS	-
3.4	§2.1049 §22.917(a) §24.238(b)	Occupied Bandwidth	N/A	PASS	-
3.5	§2.1051 §22.917(a) §24.238(a)	Band Edge Measurement	< $43+10\log_{10}(P[\text{Watts}])$	PASS	-
3.6	§2.1051 §22.917(a) §24.238(a)	Conducted Spurious Emission	< $43+10\log_{10}(P[\text{Watts}])$	PASS	-
3.7	§2.1053 §22.917(a) §24.238(a)	Field Strength of Spurious Radiation	< $43+10\log_{10}(P[\text{Watts}])$	PASS	Under limit 11.84 dB at 2544.000 MHz
3.8	§2.1055 §22.355 §24.235	Frequency Stability for Temperature & Voltage	< 2.5 ppm	PASS	-

1 General Description

1.1 Applicant

Motorola Solutions, Inc.

One Motorola Plaza, Holtsville, NY 11742-1300 USA

1.2 Manufacturer

Motorola Solutions, Inc.

One Motorola Plaza, Holtsville, NY 11742-1300 USA

1.3 Feature of Equipment Under Test

Product Feature	
Equipment	Touch Computer
Brand Name	Motorola
Model Name	TC55CH
FCC ID	UZ7TC55CH
Sample 1	EUT with Scanner
Sample 2	EUT without Scanner
EUT supports Radios application	CDMA/EV-DO/LTE WLAN 11abgn / Bluetooth 2.1 / 3.0 / 4.0 / NFC
HW Version	DV2.2
SW Version	Android 4.1.2
FW Version	BSP 1.7
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
Rx Frequency	CDMA2000 BC0: 869.70 MHz ~ 893.31 MHz CDMA2000 BC1: 1931.25 MHz ~ 1988.75 MHz
Maximum Output Power to Antenna	CDMA2000 BC0 : 24.46 dBm CDMA2000 BC1 : 24.49 dBm
Antenna Type	Monopole Antenna
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 (ppm)	Emission Designator
Part 22	CDMA2000 BC0 1xRTT	QPSK	0.23	0.03 ppm	1M28F9W
Part 24	CDMA2000 BC1 1xRTT	QPSK	0.42	0.01 ppm	1M28F9W

1.7 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 Registration No.
	TH02-HY	03CH07-HY	722060

1.8 Applied Standards

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

- FCC 47 CFR Part 2, 22(H), 24(E)
- ANSI / TIA / EIA-603-C-2004
- FCC KDB 971168 D01 Power Meas. License Digital Systems v02r01

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 was 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.

Test Modes		
Band	Radiated TCs	Conducted TCs
CDMA2000 BC0	■ 1xRTT Link Mode for Sample 1 with Battery 2 ■ 1xRTT Link Mode for Sample 1 with Battery 1 ■ 1xRTT Link Mode for Sample 2 with Battery 2	■ 1xRTT Link Mode
CDMA2000 BC1	■ 1xRTT Link Mode for Sample 1 with Battery 2 ■ 1xRTT Link Mode for Sample 1 with Battery 1 ■ 1xRTT Link Mode for Sample 2 with Battery 2	■ 1xRTT Link Mode

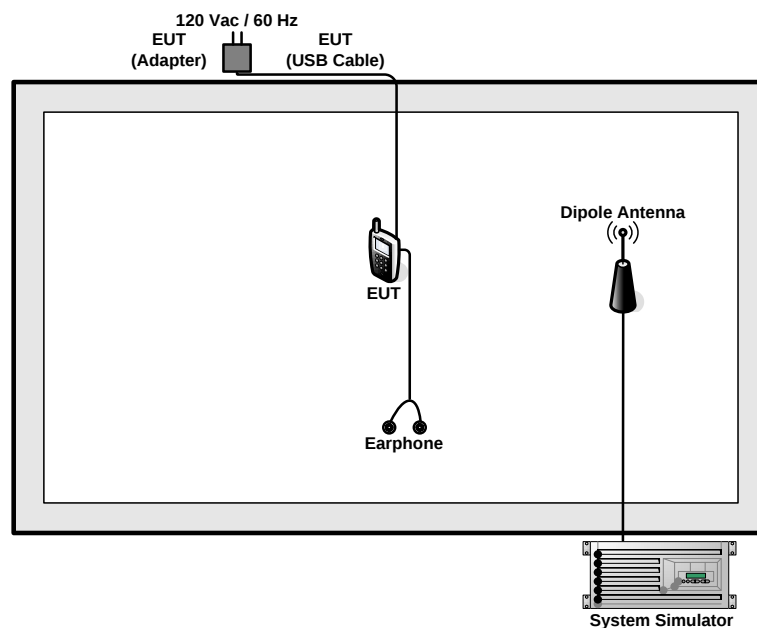
Note:

1. The maximum RF output power levels are 1xRTT RC3 SO55 mode for CDMA2000 BC0 on QPSK Link and 1xRTT RC3 SO32(+SCH) mode for CDMA2000 BC1 on QPSK Link; only these modes were used for all tests.
2. Because there are individual antennas for each WWAN, WLAN, and Bluetooth, the co-location test modes are not required.

The conducted power table is as follows:

Conducted Power (*Unit: dBm)						
Band	CDMA2000 BC0			CDMA2000 BC1		
Channel	1013	384	777	25	600	1175
Frequency	824.7	836.52	848.31	1851.25	1880	1908.75
1xRTT RC1 SO55	24.38	24.43	24.35	24.42	24.42	24.46
1xRTT RC3 SO55	24.39	24.46	24.37	24.42	24.41	24.44
1xRTT RC3 SO32(+ F-SCH)	24.39	24.44	24.37	24.46	24.47	24.47
1xRTT RC3 SO32(+SCH)	24.38	24.45	24.34	24.44	24.45	24.49
1xEV-DO RTAP 153.6kbps	24.39	24.39	24.36	24.46	24.40	24.44
1xEV-DO RETAP 4096Bits	24.36	24.42	24.33	24.42	24.40	24.48

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.	Earphone	Cotron	MAX-300	N/A	Unshielded, 1.2 m	N/A

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.

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.

Example :

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\ &= 4.2 + 10 = 14.2 \text{ (dB)}\end{aligned}$$

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.

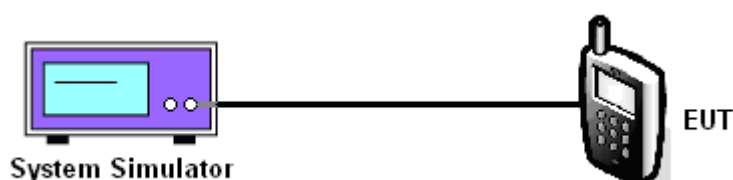
3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 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 1xRTT		
Test Status	RC3+SO55		
Channel	1013 (Low)	384 (Mid)	777 (High)
Frequency (MHz)	824.7	836.52	848.31
Conducted Power (dBm)	24.39	24.46	24.37
Conducted Power (Watts)	0.27	0.28	0.27

CDMA2000 BC1			
Test Mode	CDMA 2000 1xRTT		
Test Status	RC3+SO32		
Channel	25 (Low)	600 (Mid)	1175 (High)
Frequency (MHz)	1851.25	1880	1908.75
Conducted Power (dBm)	24.44	24.45	24.49
Conducted Power (Watts)	0.28	0.28	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.

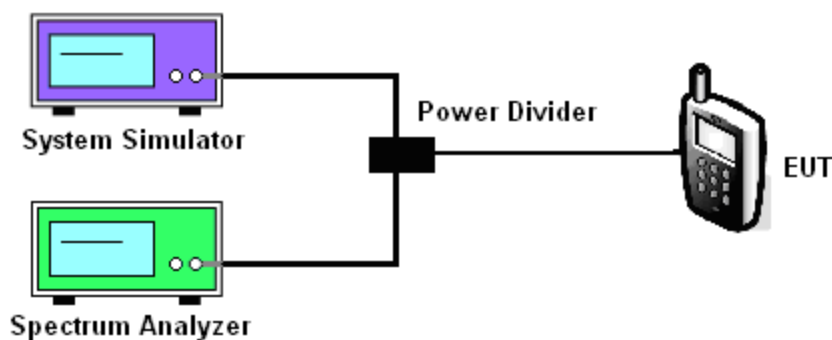
3.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.2.3 Test Procedures

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

3.2.4 Test Setup



3.2.5 Test Result of Peak-to-Average Ratio

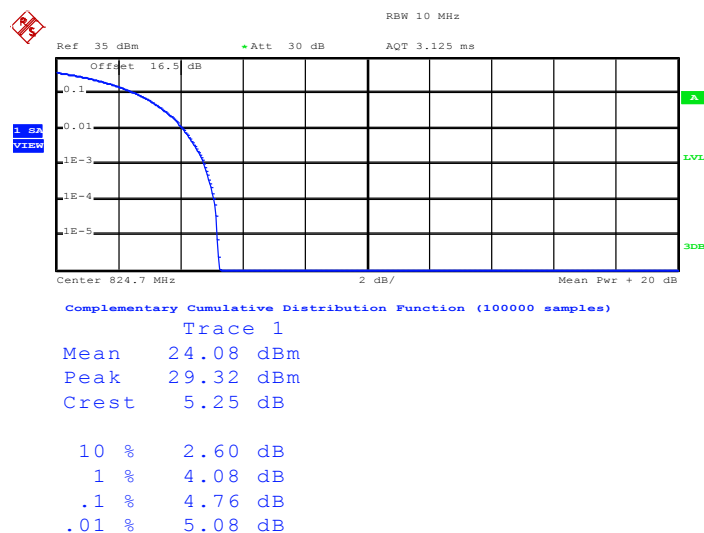
CDMA2000 BC0			
Modes	CDMA 2000 1xRTT		
Channel	1013 (Low)	384 (Mid)	777 (High)
Frequency (MHz)	824.70	836.52	848.31
Peak-to-Average Ratio (dB)	4.76	4.92	4.64

CDMA2000 BC1			
Modes	CDMA 2000 1xRTT		
Channel	25 (Low)	600 (Mid)	1175 (High)
Frequency (MHz)	1851.25	1880	1908.75
Peak-to-Average Ratio (dB)	4.48	4.64	4.52

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

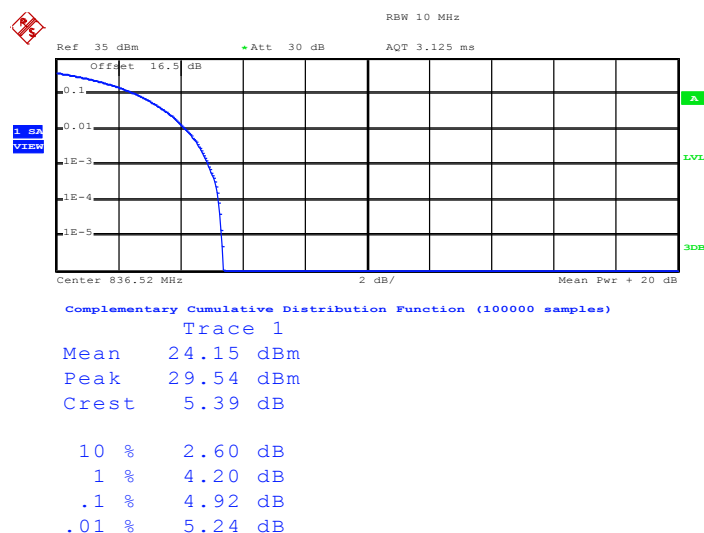
Band :	CDMA2000 BC0	Test Mode :	1xRTT_RC3+SO55 Link (QPSK)
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Peak-to-Average Ratio on Channel 1013 (824.70 MHz)



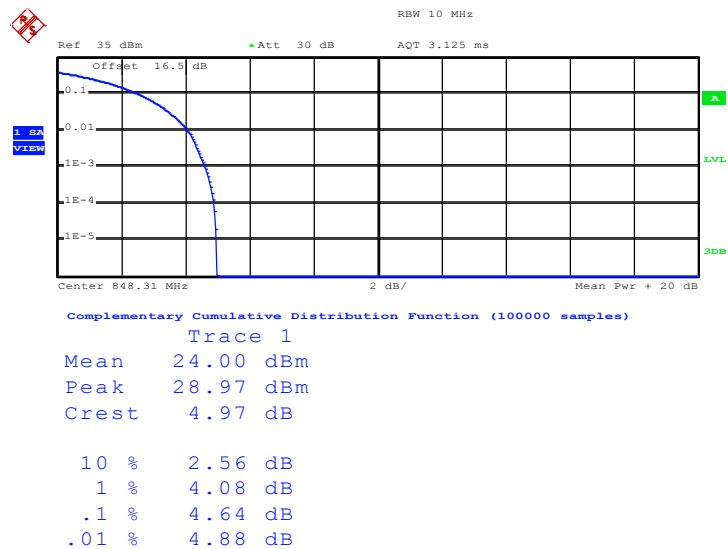
Date: 17.JAN.2014 16:25:51

Peak-to-Average Ratio on Channel 384 (836.52 MHz)



Date: 17.JAN.2014 16:26:50

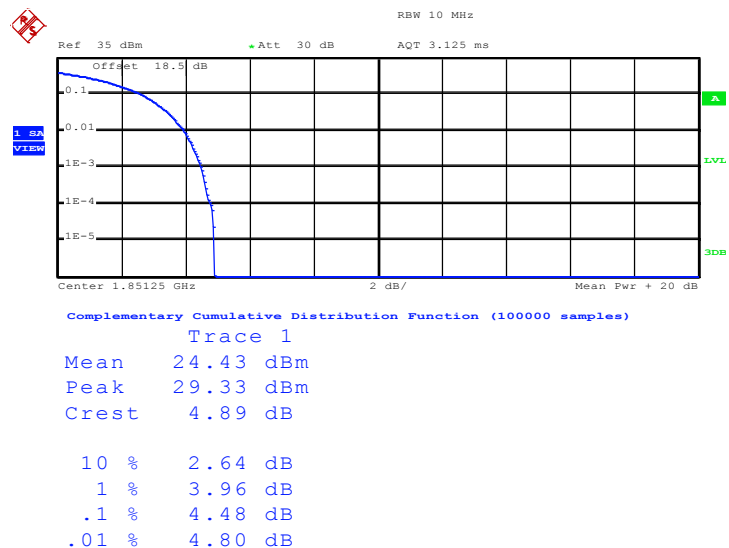
Peak-to-Average Ratio on Channel 777 (848.31 MHz)



Date: 17.JAN.2014 16:27:25

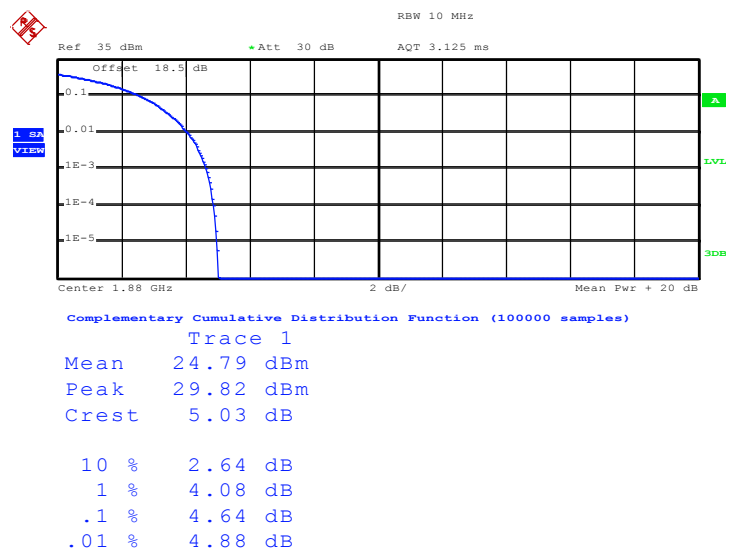
Band :	CDMA2000 BC1	Test Mode :	1xRTT_RC3+SO32 Link (QPSK)
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Peak-to-Average Ratio on Channel 25 (1851.25 MHz)



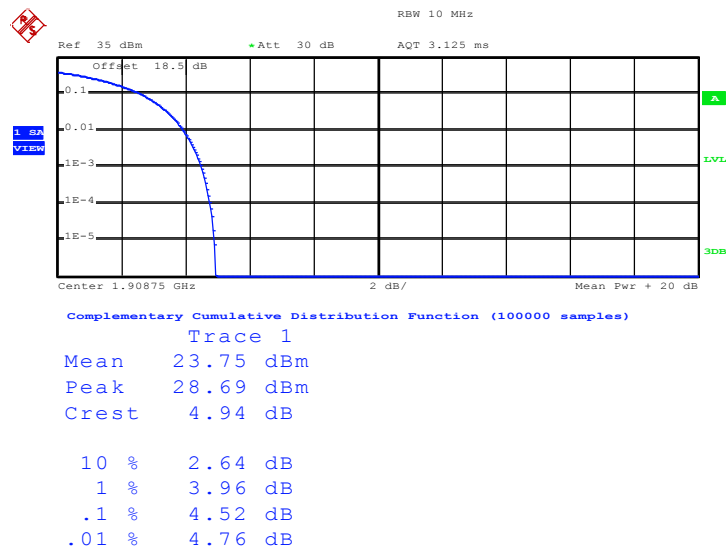
Date: 21.JAN.2014 10:34:38

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



Date: 21.JAN.2014 10:35:44

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



Date: 21.JAN.2014 10:37:05

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 v02r01. The ERP of mobile transmitters must not exceed 7 Watts and the EIRP of mobile transmitters are limited to 2 Watts.

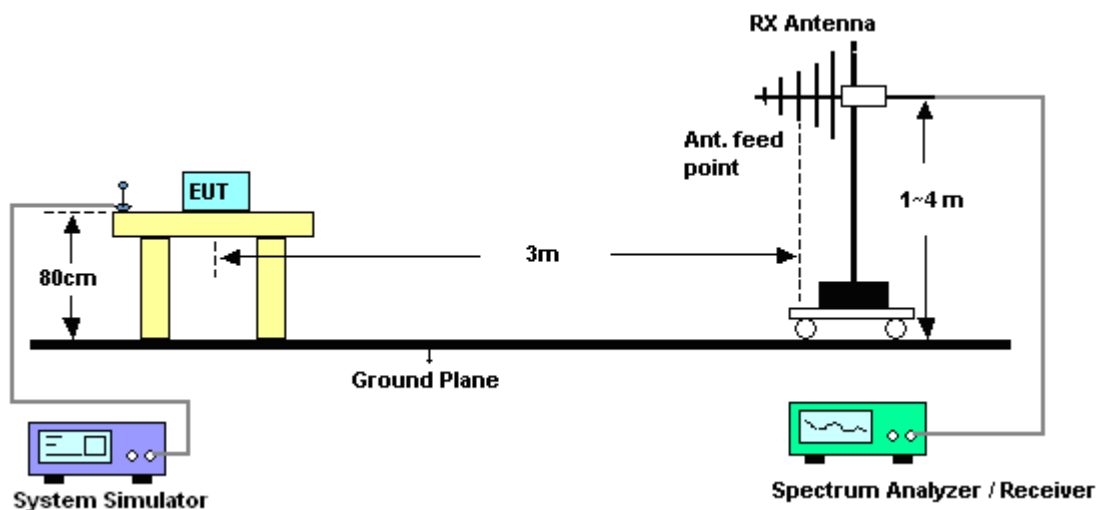
3.3.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.3.3 Test Procedures

1. The EUT was placed on an 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= 100 kHz, VBW= 300 kHz, RMS detector settings per 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 1xRTT_RC3+SO55 Radiated Power ERP for Sample 1 with Battery 1				
Horizontal Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (W)
824.70	-6.80	31.35	22.40	0.17
836.52	-6.36	32.13	23.62	0.23
848.31	-9.18	32.64	21.31	0.14
Vertical Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (W)
824.70	-14.36	32.83	16.32	0.04
836.52	-13.72	32.81	16.94	0.05
848.31	-15.96	33.52	15.41	0.03

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

CDMA2000 BC0 1xRTT_RC3+SO55 Radiated Power ERP for Sample 1 with Battery 2				
Horizontal Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (W)
824.70	-7.39	31.35	21.81	0.15
836.52	-6.65	32.13	23.33	0.22
848.31	-9.45	32.64	21.04	0.13
Vertical Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (W)
824.70	-14.66	32.83	16.02	0.04
836.52	-14.00	32.81	16.66	0.05
848.31	-16.30	33.52	15.07	0.03

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

CDMA2000 BC0 1xRTT_RC3+SO55 Radiated Power ERP for Sample 2 with Battery 1				
Horizontal Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (W)
824.70	-7.08	31.35	22.12	0.16
836.52	-6.93	32.13	23.05	0.20
848.31	-9.73	32.64	20.76	0.12
Vertical Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (W)
824.70	-14.12	32.83	16.56	0.05
836.52	-13.87	32.81	16.79	0.05
848.31	-16.34	33.52	15.03	0.03

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

3.3.6 Test Result of EIRP

CDMA2000 BC1 1xRTT_RC3+SO32 Radiated Power EIRP for Sample 1 with Battery 1				
Horizontal Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1851.25	-19.32	43.92	24.60	0.29
1880.00	-19.00	44.79	25.79	0.38
1908.75	-17.51	43.75	26.24	0.42
Vertical Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1851.25	-28.68	45.35	16.67	0.05
1880.00	-29.20	46.78	17.58	0.06
1908.75	-28.28	46.74	18.46	0.07

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

CDMA2000 BC1 1xRTT_RC3+SO32 Radiated Power EIRP for Sample 1 with Battery 2				
Horizontal Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1851.25	-19.22	43.92	24.70	0.30
1880.00	-19.19	44.79	25.60	0.36
1908.75	-18.64	43.75	25.11	0.32
Vertical Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1851.25	-29.15	45.35	16.20	0.04
1880.00	-28.70	46.78	18.08	0.06
1908.75	-28.30	46.74	18.44	0.07

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

CDMA2000 BC1 1xRTT_RC3+SO32 Radiated Power EIRP for Sample 2 with Battery 1				
Horizontal Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1851.25	-19.84	43.92	24.08	0.26
1880.00	-19.58	44.79	25.21	0.33
1908.75	-19.47	43.75	24.28	0.27
Vertical Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1851.25	-27.39	45.35	17.96	0.06
1880.00	-27.65	46.78	19.13	0.08
1908.75	-27.62	46.74	19.12	0.08

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

3.4 99% Occupied Bandwidth and 26dB Bandwidth Measurement

3.4.1 Description of 99% Occupied Bandwidth and 26dB Bandwidth Measurement

The 99% 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.

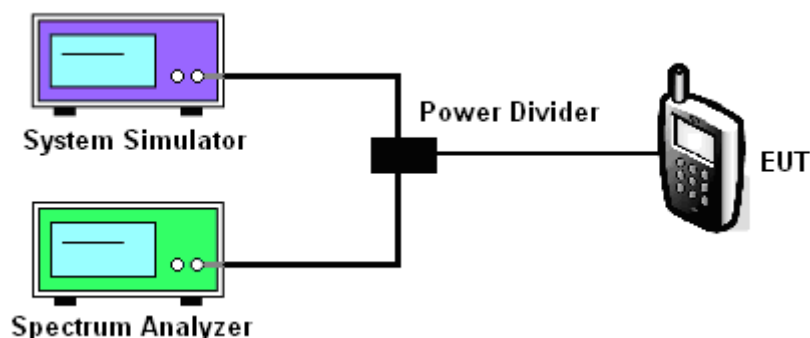
3.4.2 Measuring Instruments

The measuring equipment is listed in the section 4 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

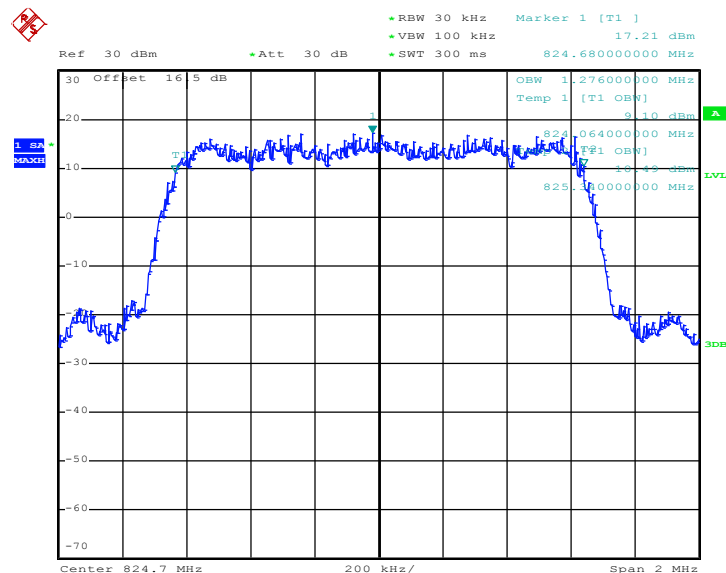
CDMA2000 BC0			
Test Mode	CDMA 2000 1xRTT		
Test Status	RC3+SO55		
Channel	1013 (Low)	384 (Mid)	777 (High)
Frequency (MHz)	824.70	836.52	848.31
99% OBW (MHz)	1.28	1.27	1.27
26dB BW (MHz)	1.40	1.41	1.41

CDMA2000 BC1			
Test Mode	CDMA 2000 1xRTT		
Test Status	RC3+SO32		
Channel	25 (Low)	600 (Mid)	1175 (High)
Frequency (MHz)	1851.25	1880.00	1908.75
99% OBW (MHz)	1.28	1.28	1.28
26dB BW (MHz)	1.42	1.41	1.42

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

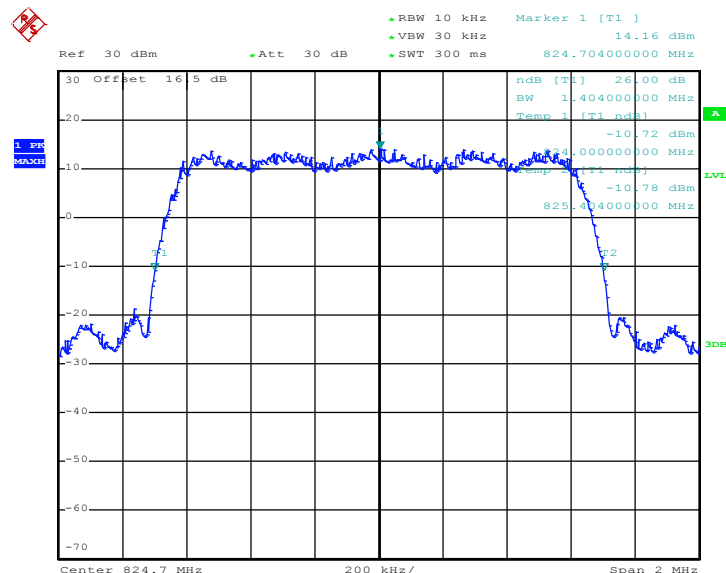
Band :	CDMA2000 BC0	Test Mode :	1xRTT_RC3+SO55 Link (QPSK)
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99% Occupied Bandwidth Plot on Channel 1013 (824.7 MHz)



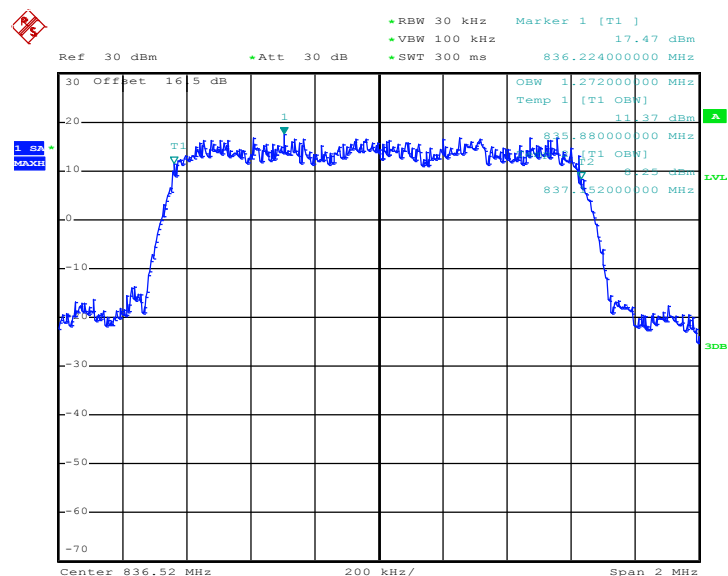
Date: 17.JAN.2014 15:13:19

26dB Bandwidth Plot on Channel 1013 (824.7 MHz)



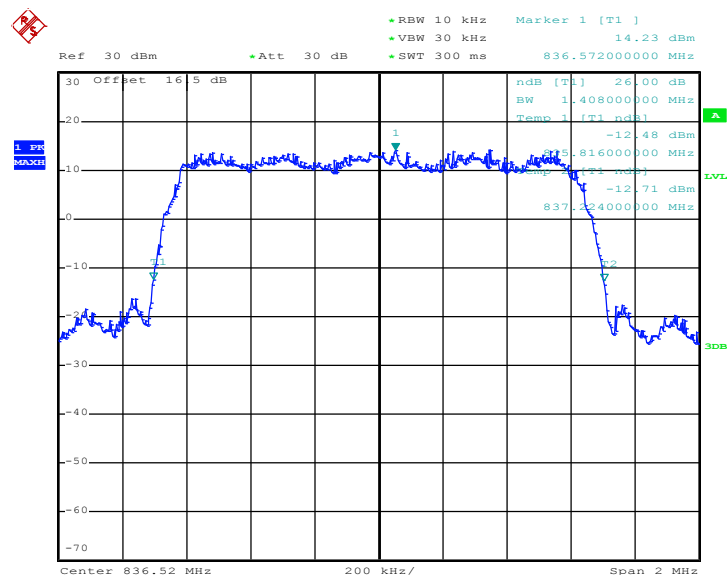
Date: 17.JAN.2014 15:05:48

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

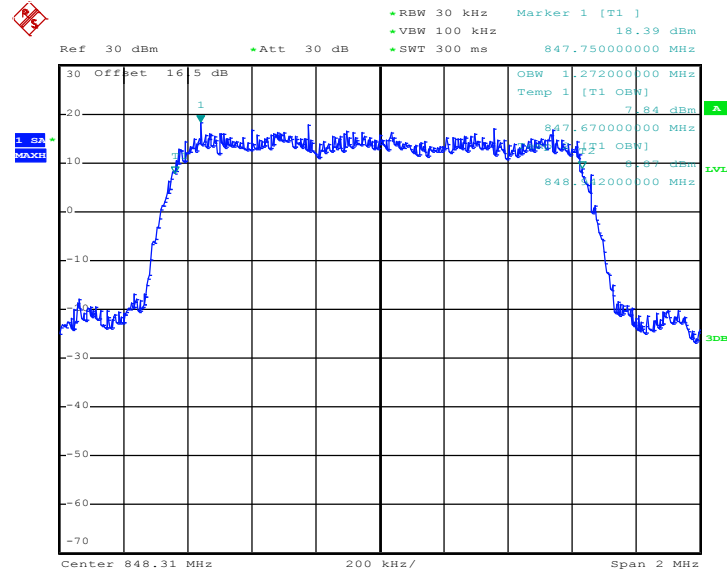


Date: 17.JAN.2014 15:13:48

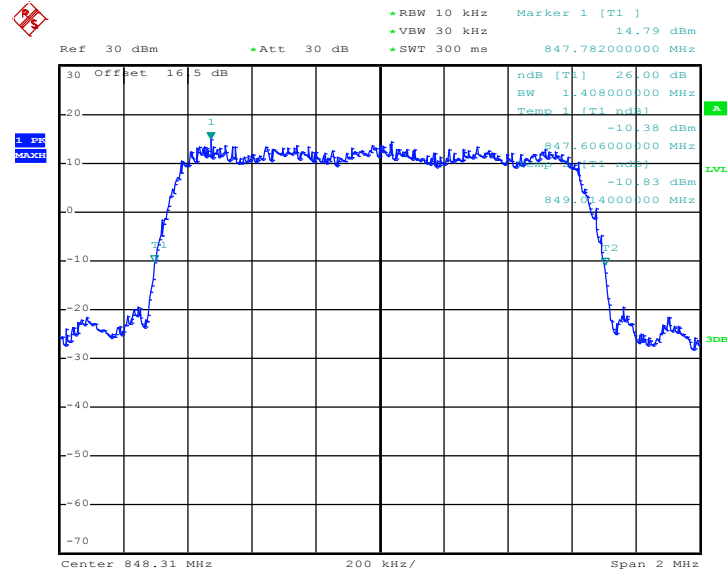
26dB Bandwidth Plot on Channel 384 (836.52 MHz)



Date: 17.JAN.2014 15:06:16

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


Date: 17.JAN.2014 15:14:16

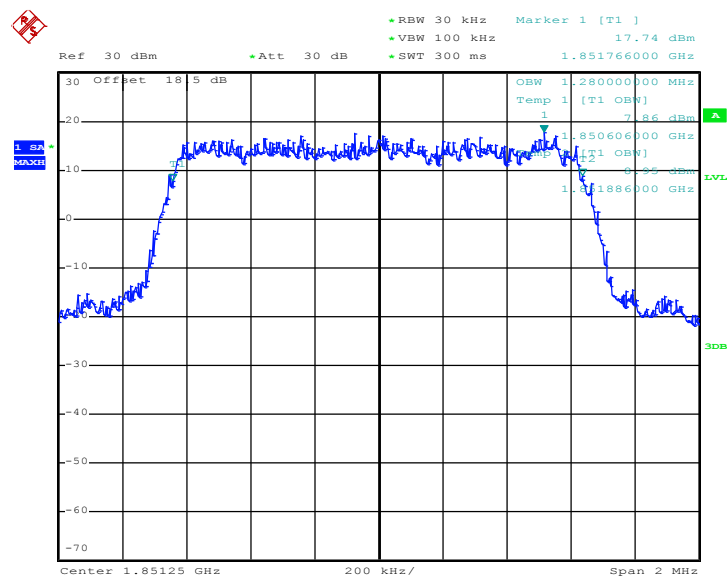
26dB Bandwidth Plot on Channel 777 (848.31 MHz)


Date: 17.JAN.2014 15:06:45



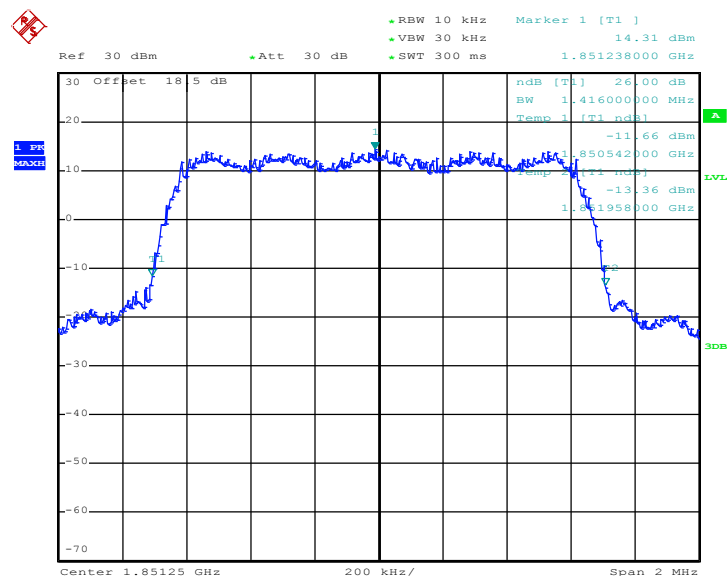
Band :	CDMA2000 BC1	Test Mode :	1xRTT_RC3+SO32 Link (QPSK)
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99% Occupied Bandwidth Plot on Channel 25 (1851.25 MHz)

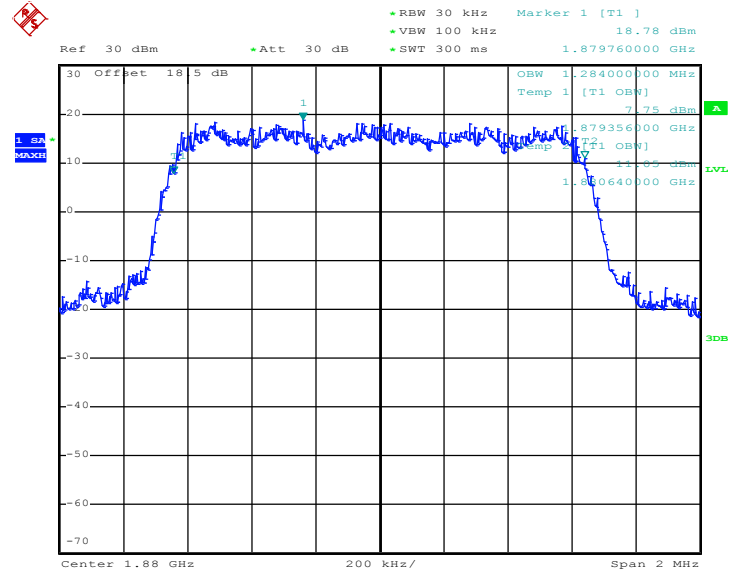


Date: 21.JAN.2014 10:28:42

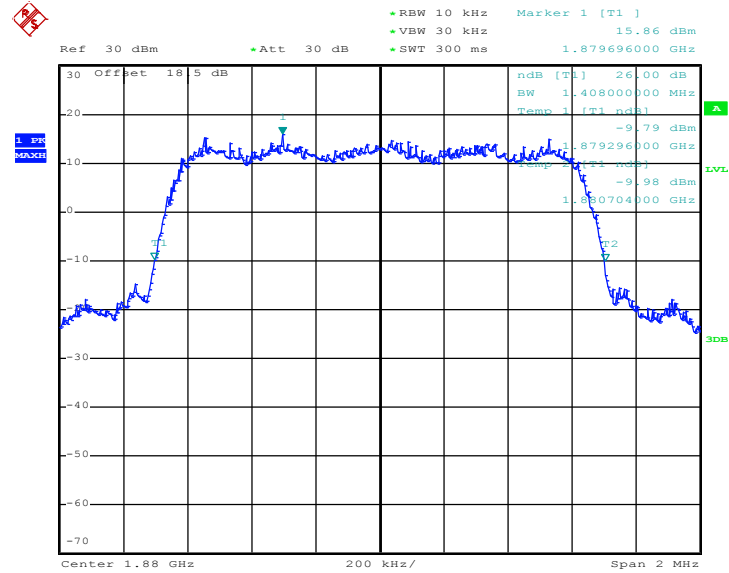
26dB Bandwidth Plot on Channel 25 (1851.25 MHz)



Date: 21.JAN.2014 10:26:55

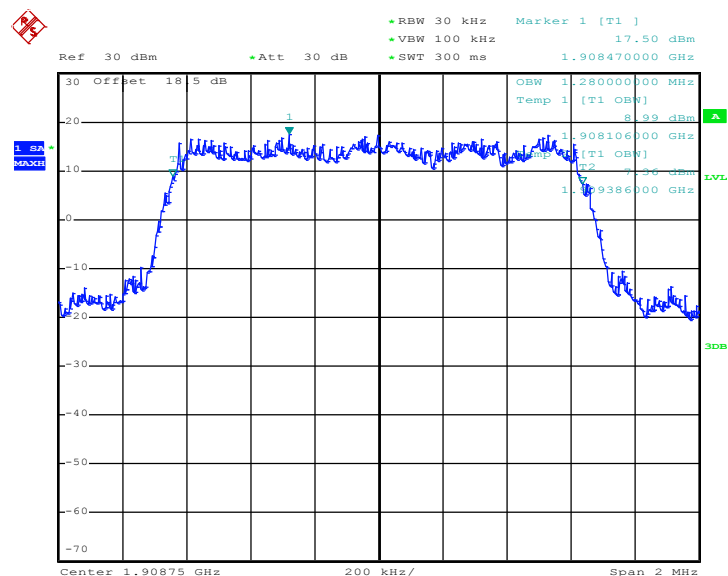
99% Occupied Bandwidth Plot on Channel 600 (1880.0 MHz)


Date: 21.JAN.2014 10:30:57

26dB Bandwidth Plot on Channel 600 (1880.0 MHz)


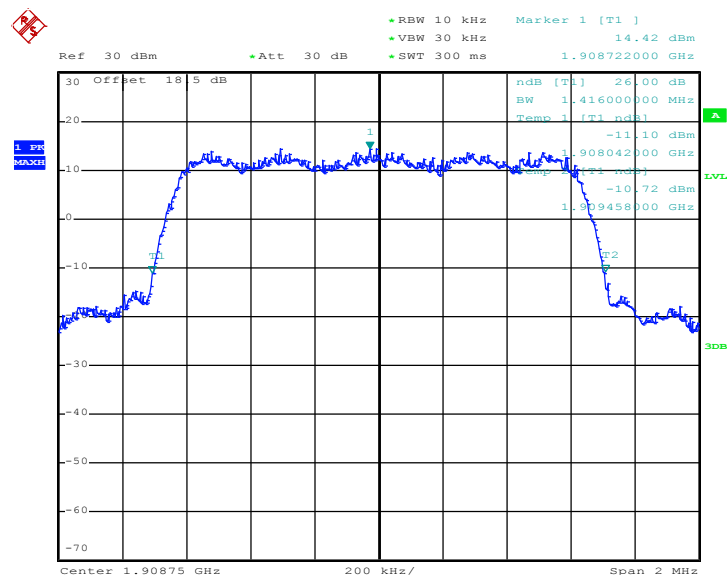
Date: 21.JAN.2014 10:27:24

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



Date: 21.JAN.2014 10:31:26

26dB Bandwidth Plot on Channel 1175 (1908.75 MHz)



Date: 21.JAN.2014 10:27:53

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

The measuring equipment is listed in the section 4 of this test report.

3.5.3 Test Procedures

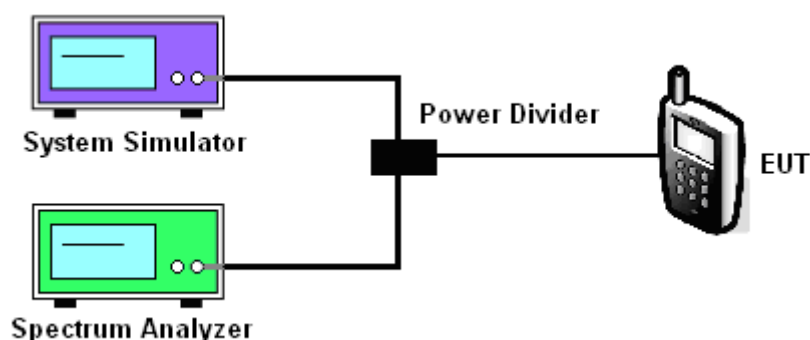
1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. The band edges of low and high channels for the highest RF powers were measured. Setting RBW as roughly BW/100.
4. The RBW was replaced by 10 kHz, slightly smaller than the value in (3), 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)

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

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

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

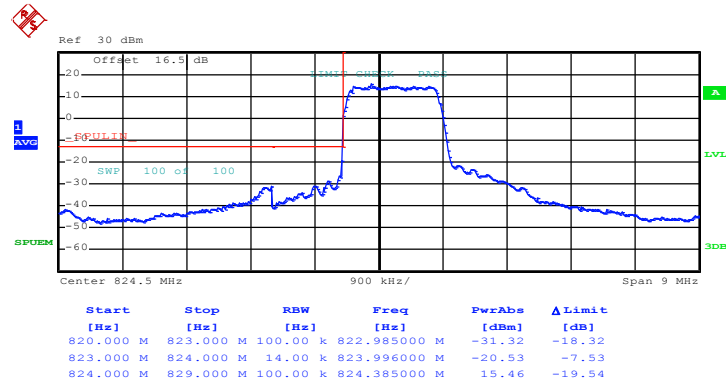
3.5.4 Test Setup



3.5.5 Test Result (Plots) of Conducted Band Edge

Band :	CDMA2000 BC0	Test Mode :	1xRTT_RC3+SO55 Link (QPSK)
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Lower Band Edge Plot on Channel 1013 (824.7 MHz)

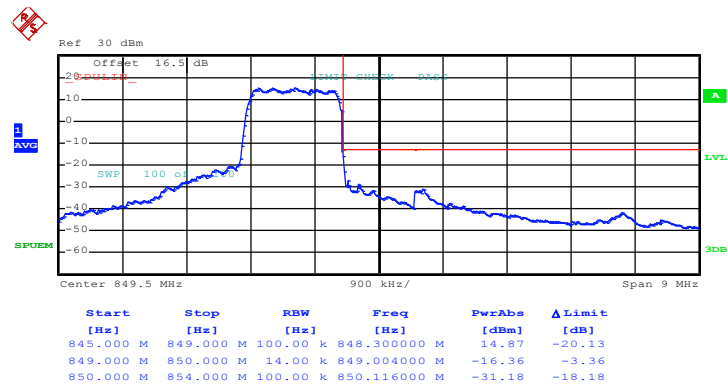


Date: 17.JAN.2014 15:29:24



Band :	CDMA2000 BC0	Test Mode :	1xRTT_RC3+SO55 Link (QPSK)
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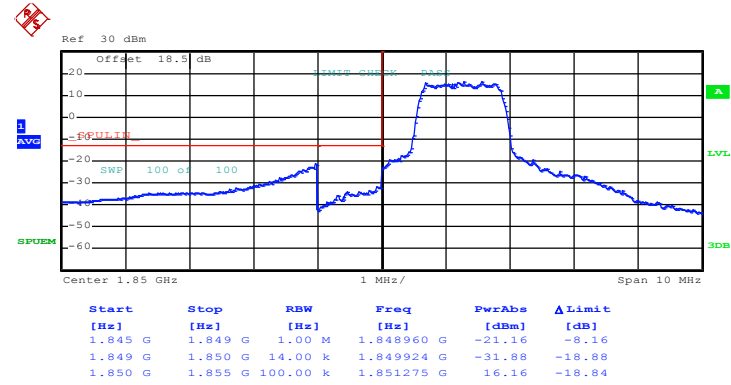
Higher Band Edge Plot on Channel 777 (848.31 MHz)



Date: 17.JAN.2014 16:03:30

Band :	CDMA2000 BC1	Test Mode :	1xRTT_RC3+SO32 Link (QPSK)
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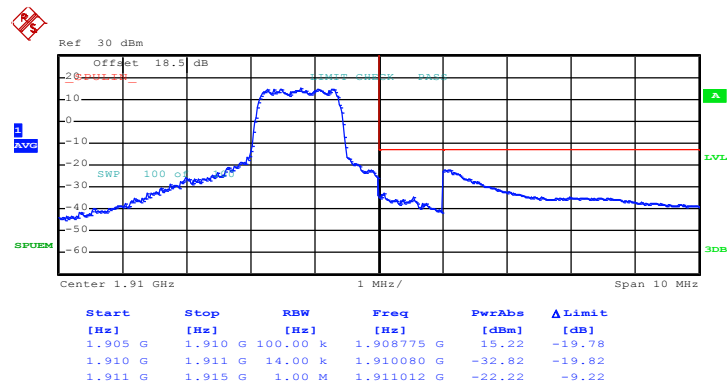
Lower Band Edge Plot on Channel 25 (1851.25 MHz)



Date: 21.JAN.2014 11:04:14

Band :	CDMA2000 BC1	Test Mode :	1xRTT_RC3+SO32 Link (QPSK)
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Higher Band Edge Plot on Channel 1175 (1908.75 MHz)



Date: 21.JAN.2014 11:00:24

3.6 Conducted Spurious Emission Measurement

3.6.1 Description of Conducted 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.

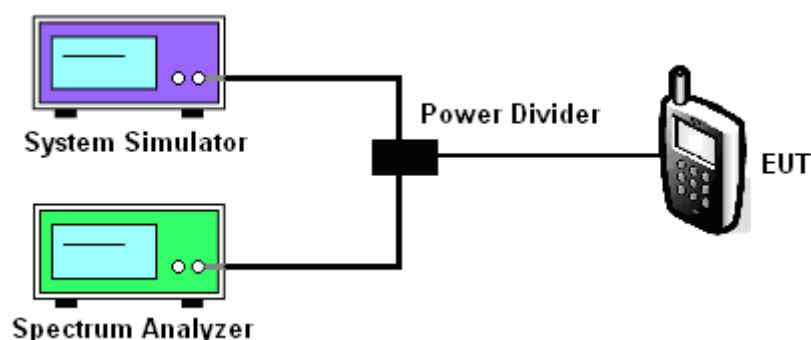
3.6.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.6.3 Test Procedures

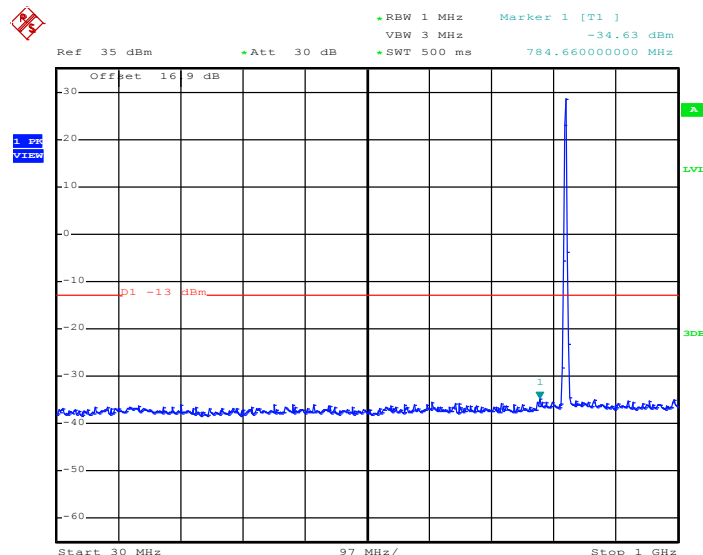
1. The EUT was connected to spectrum analyzer and base station via power divider.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. The middle channel for the highest RF power within the transmitting frequency was measured.
4. The conducted spurious emission for the whole frequency range was taken.
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)
 $= P(W) - [43 + 10\log(P)] \text{ (dB)}$
 $= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$
 $= -13\text{dBm}.$

3.6.4 Test Setup

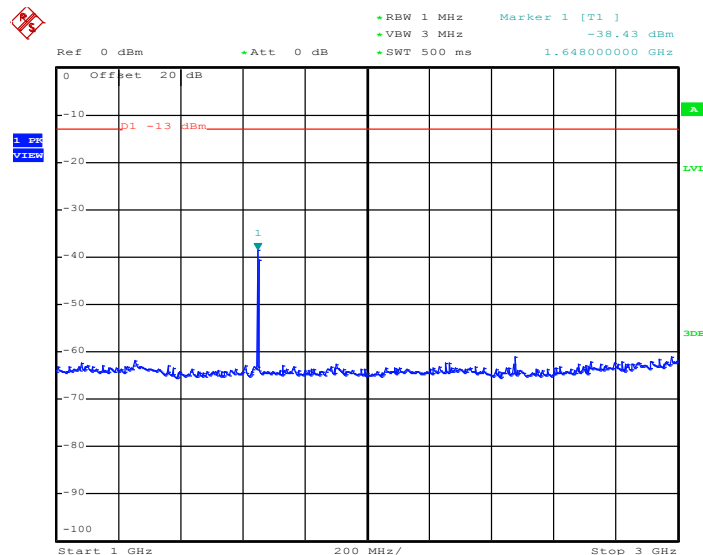


3.6.5 Test Result (Plots) of Conducted Spurious Emission

Band :	CDMA2000 BC0	Channel	1013
Test Mode :	1xRTT_RC3+SO55 Link (QPSK)	Frequency :	824.70 MHz

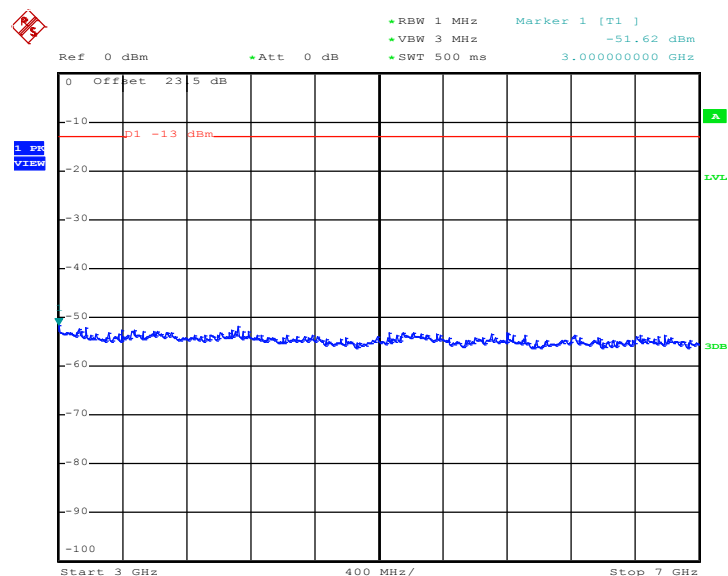
Conducted Spurious Emission Plot between 30MHz ~ 1GHz


Date: 17.JAN.2014 16:10:17

Conducted Spurious Emission Plot between 1GHz ~ 3GHz


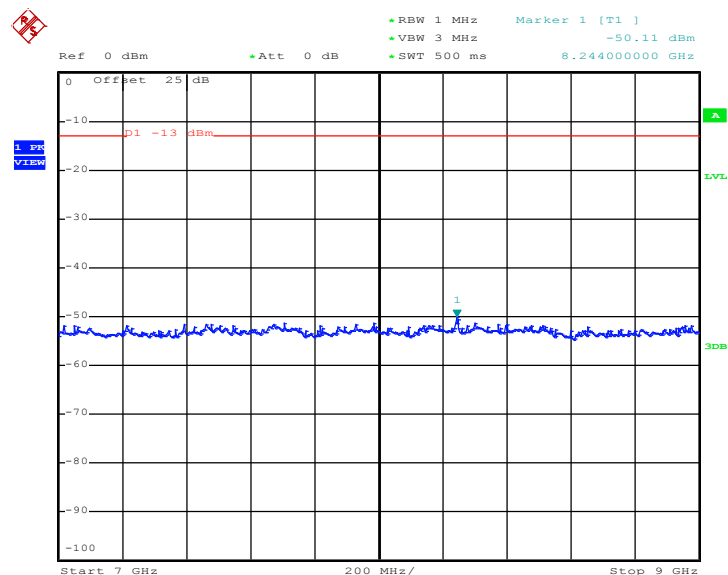
Date: 17.JAN.2014 16:12:46

Conducted Spurious Emission Plot between 3GHz ~ 7GHz



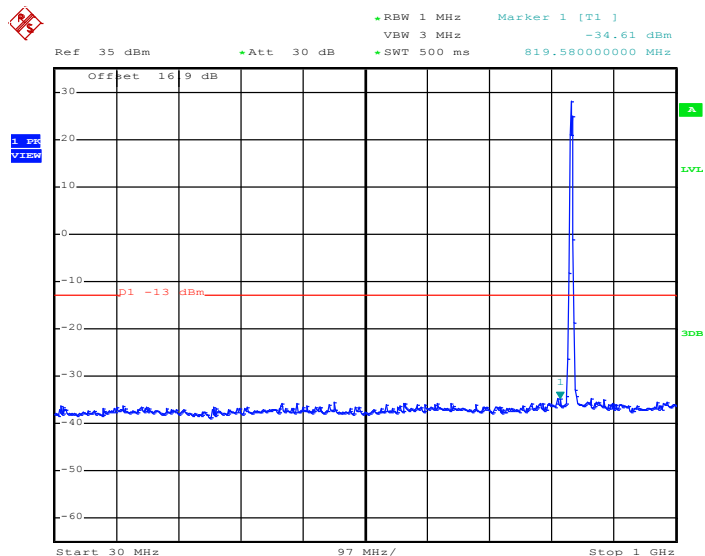
Date: 17.JAN.2014 16:12:55

Conducted Spurious Emission Plot between 7GHz ~ 9GHz

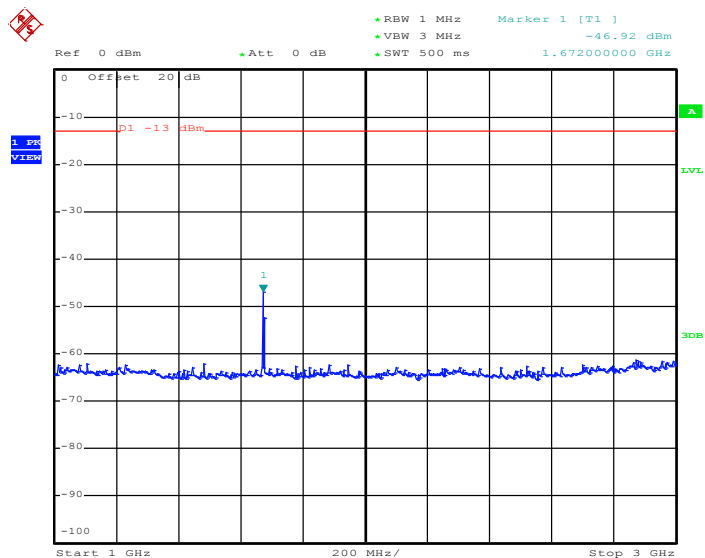


Date: 17.JAN.2014 16:13:03

Band :	CDMA2000 BC0	Channel	384
Test Mode :	1xRTT_RC3+SO55 Link (QPSK)	Frequency :	836.52 MHz

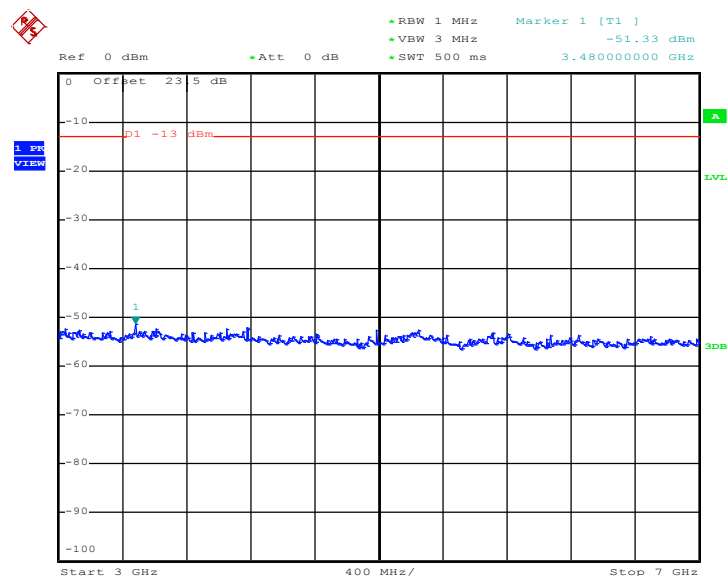
Conducted Spurious Emission Plot between 30MHz ~ 1GHz


Date: 17.JAN.2014 16:09:17

Conducted Spurious Emission Plot between 1GHz ~ 3GHz


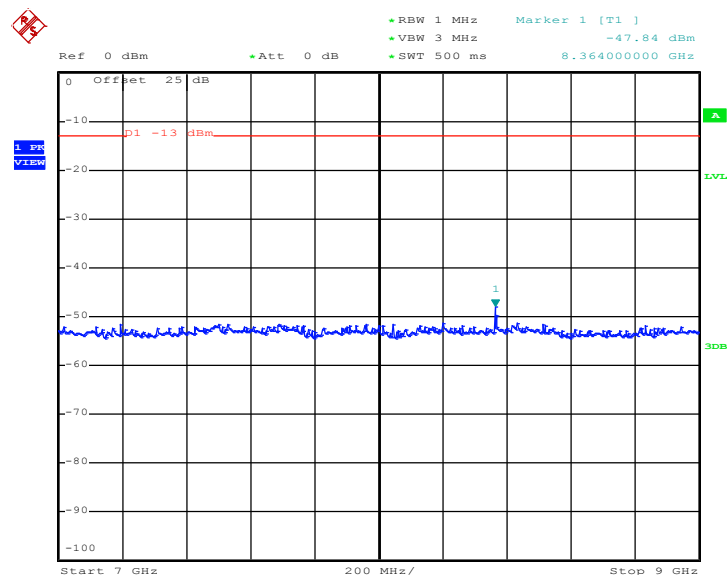
Date: 17.JAN.2014 16:08:50

Conducted Spurious Emission Plot between 3GHz ~ 7GHz



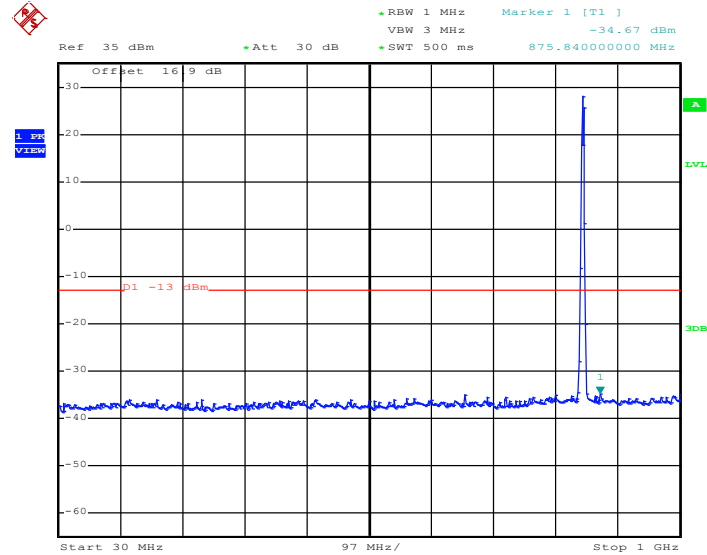
Date: 17.JAN.2014 16:08:59

Conducted Spurious Emission Plot between 7GHz ~ 9GHz

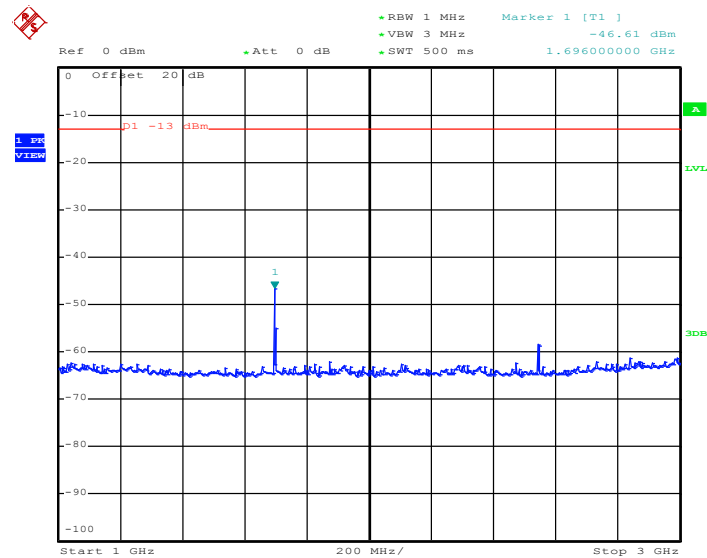


Date: 17.JAN.2014 16:09:07

Band :	CDMA2000 BC0	Channel	777
Test Mode :	1xRTT_RC3+SO55 Link (QPSK)	Frequency :	848.31 MHz

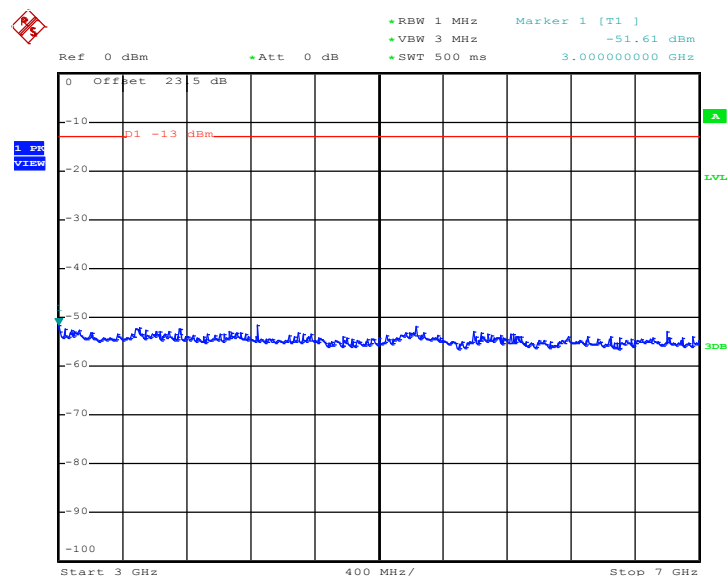
Conducted Spurious Emission Plot between 30MHz ~ 1GHz


Date: 17.JAN.2014 16:11:27

Conducted Spurious Emission Plot between 1GHz ~ 3GHz


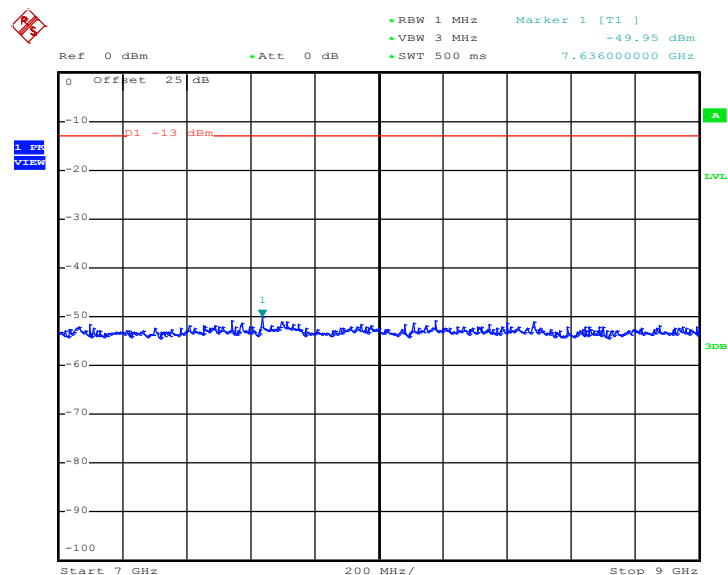
Date: 17.JAN.2014 16:17:10

Conducted Spurious Emission Plot between 3GHz ~ 7GHz



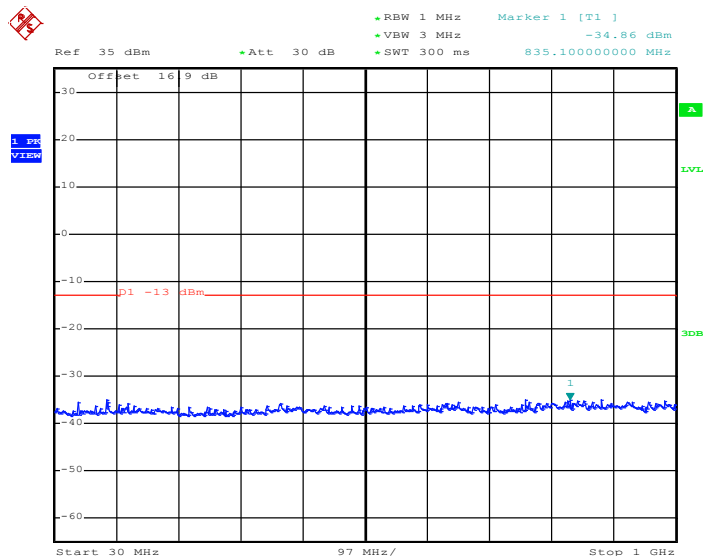
Date: 17.JAN.2014 16:17:18

Conducted Spurious Emission Plot between 7GHz ~ 9GHz

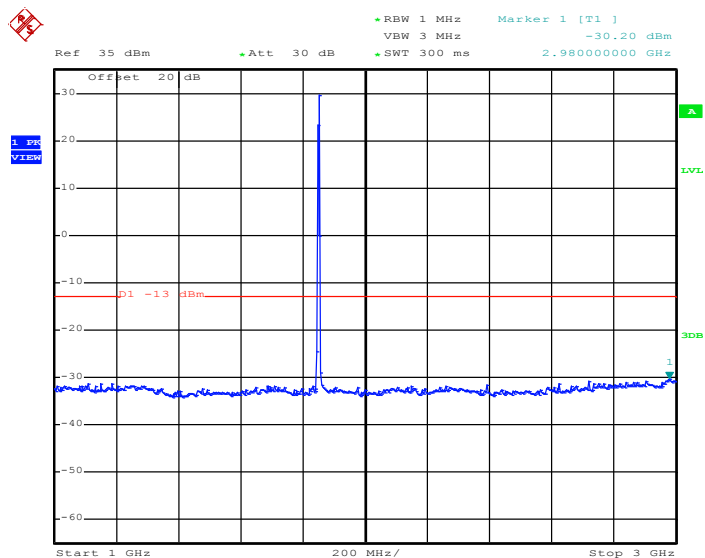


Date: 17.JAN.2014 16:17:27

Band :	CDMA2000 BC1	Channel	25
Test Mode :	1xRTT_RC3+SO32 Link (QPSK)	Frequency :	1851.25 MHz

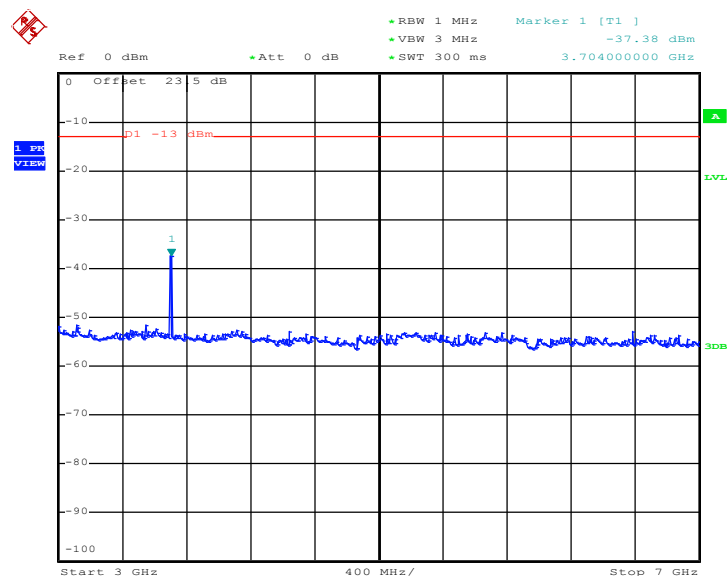
Conducted Spurious Emission Plot between 30MHz ~ 1GHz


Date: 21.JAN.2014 10:47:58

Conducted Spurious Emission Plot between 1GHz ~ 3GHz


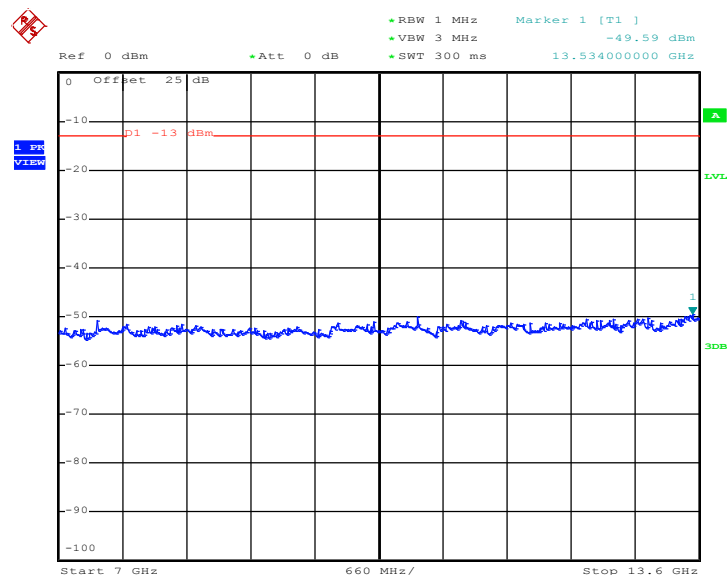
Date: 21.JAN.2014 10:46:07

Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 21.JAN.2014 10:48:19

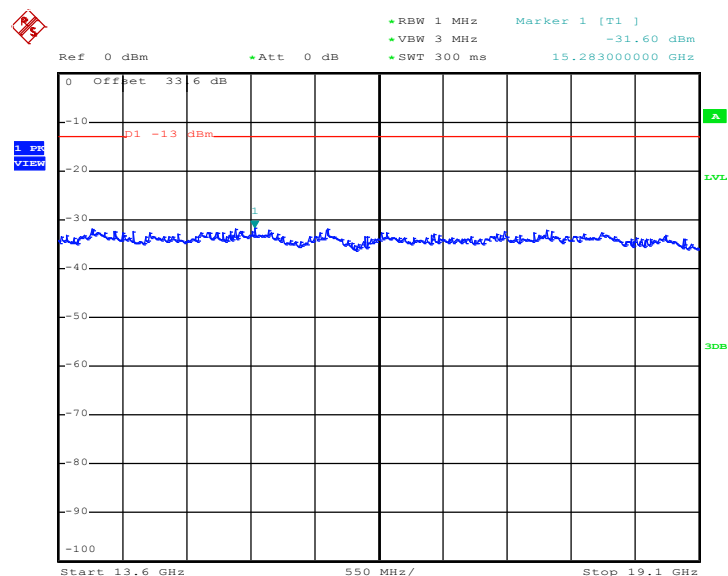
Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz



Date: 21.JAN.2014 10:48:27

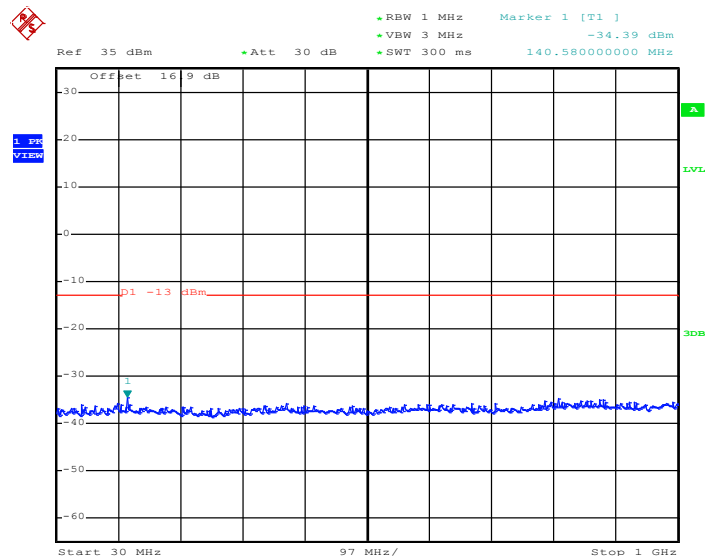


Conducted Spurious Emission Plot between 13.6GHz ~ 19.1GHz

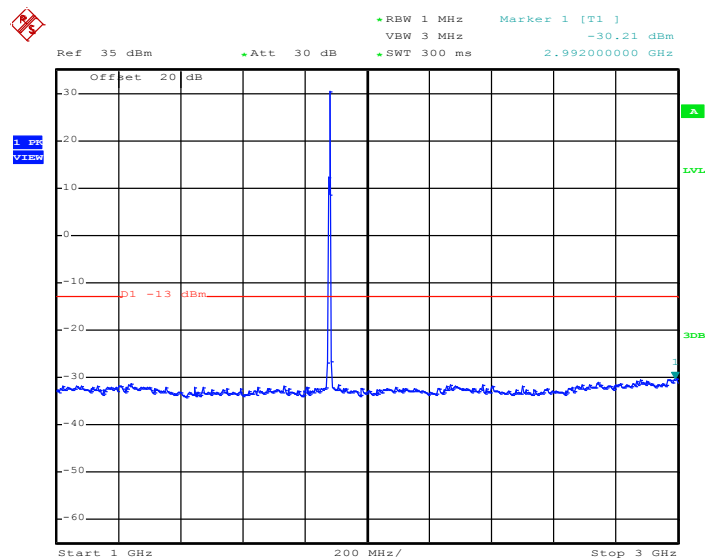


Date: 21.JAN.2014 10:48:36

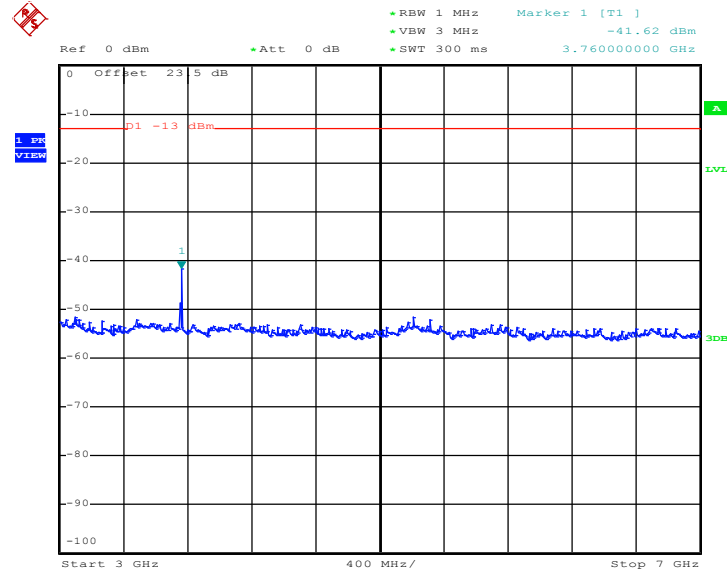
Band :	CDMA2000 BC1	Channel	600
Test Mode :	1xRTT_RC3+SO32 Link (QPSK)	Frequency :	1880.00 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz


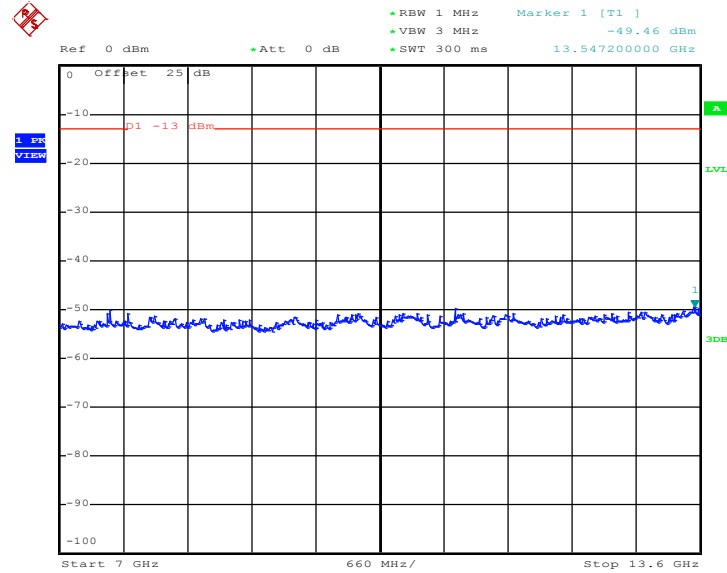
Date: 21.JAN.2014 10:41:14

Conducted Spurious Emission Plot between 1GHz ~ 3GHz


Date: 21.JAN.2014 10:44:47

Conducted Spurious Emission Plot between 3GHz ~ 7GHz


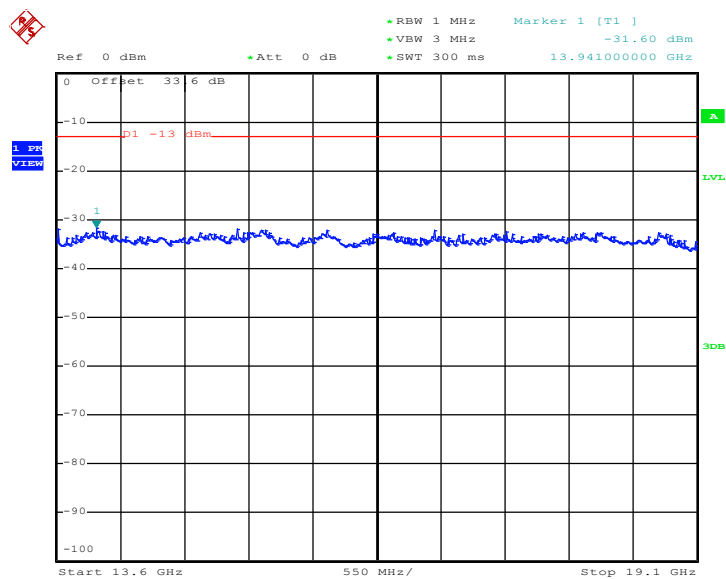
Date: 21.JAN.2014 10:41:36

Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz


Date: 21.JAN.2014 10:41:44

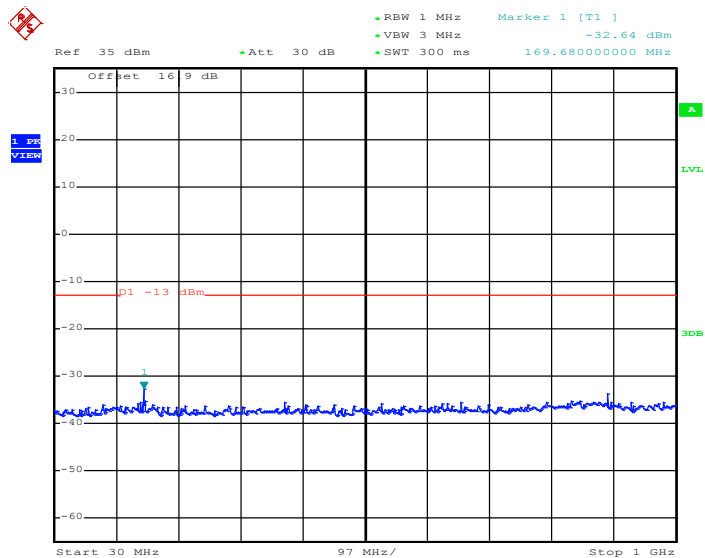


Conducted Spurious Emission Plot between 13.6GHz ~ 19.1GHz

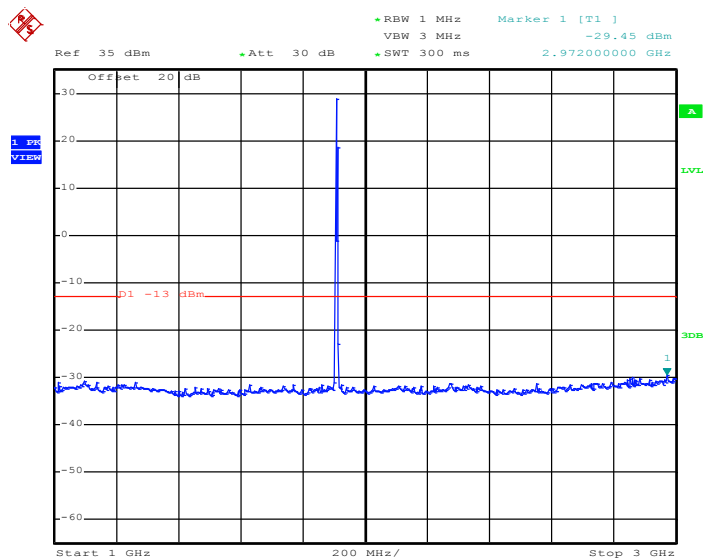


Date: 21.JAN.2014 10:41:52

Band :	CDMA2000 BC1	Channel	1175
Test Mode :	1xRTT_RC3+SO32 Link (QPSK)	Frequency :	1908.75 MHz

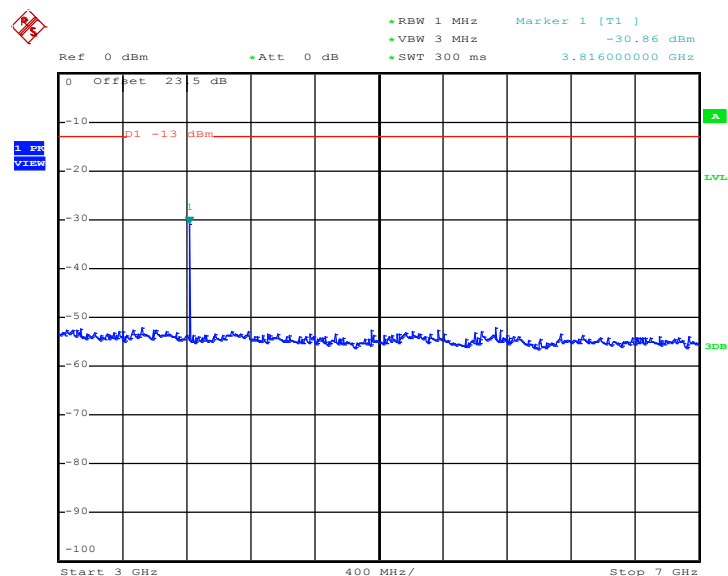
Conducted Spurious Emission Plot between 30MHz ~ 1GHz


Date: 21.JAN.2014 10:49:52

Conducted Spurious Emission Plot between 1GHz ~ 3GHz


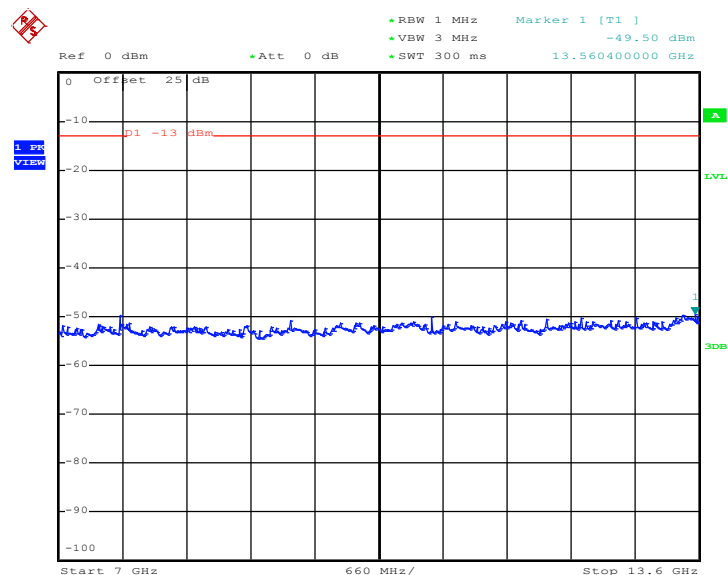
Date: 21.JAN.2014 10:47:13

Conducted Spurious Emission Plot between 3GHz ~ 7GHz



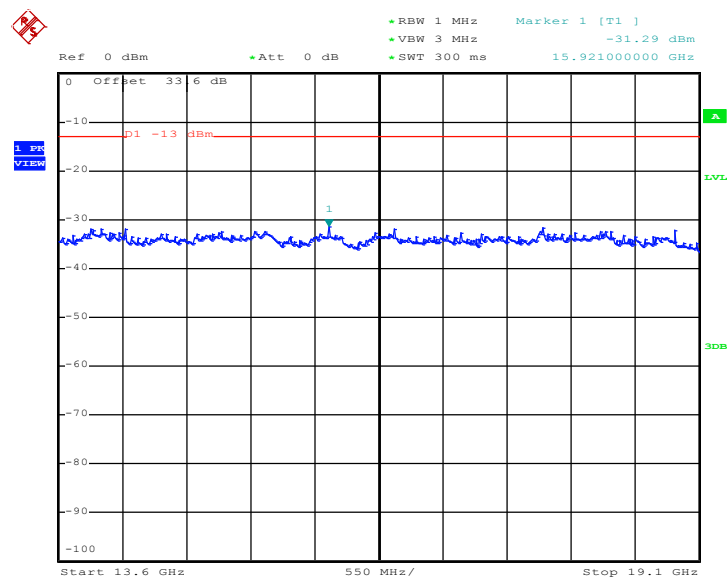
Date: 21.JAN.2014 10:50:14

Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz



Date: 21.JAN.2014 10:50:22

Conducted Spurious Emission Plot between 13.6GHz ~ 19.1GHz



Date: 21.JAN.2014 10:50:31

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 $43+10\log_{10}(P[\text{Watts}])$ dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

3.7.2 Measuring Instruments

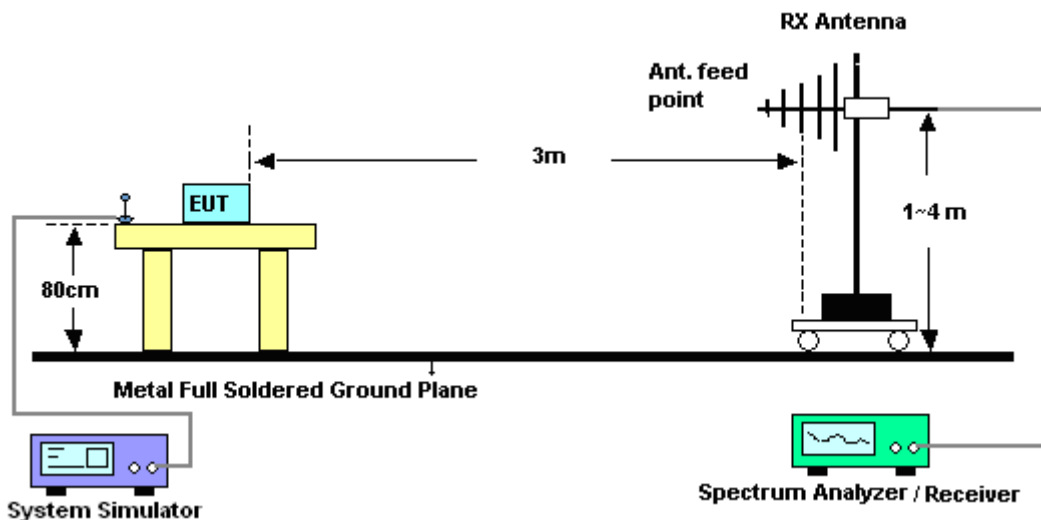
The measuring equipment is listed in the section 4 of this test report.

3.7.3 Test Procedures

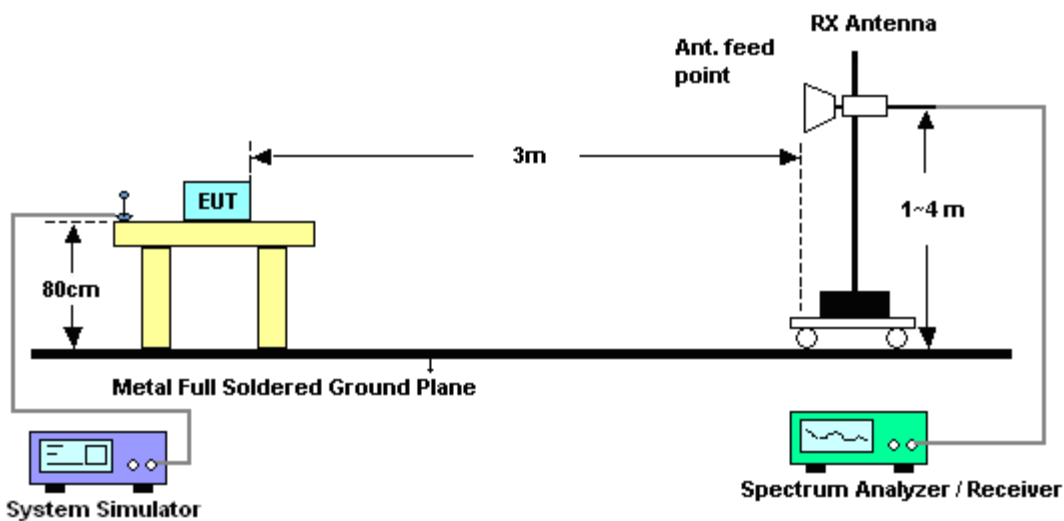
1. The EUT was placed on a rotatable wooden table with 0.8 meter above ground.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving 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. $\text{EIRP (dBm)} = \text{S.G. Power} - \text{Tx Cable Loss} + \text{Tx Antenna Gain}$
11. $\text{ERP (dBm)} = \text{EIRP} - 2.15$
12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
13. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10\log(P)] \text{ (dB)}$
 $= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$
 $= -13\text{dBm}.$

3.7.4 Test Setup

For radiated emissions from 30MHz to 1GHz



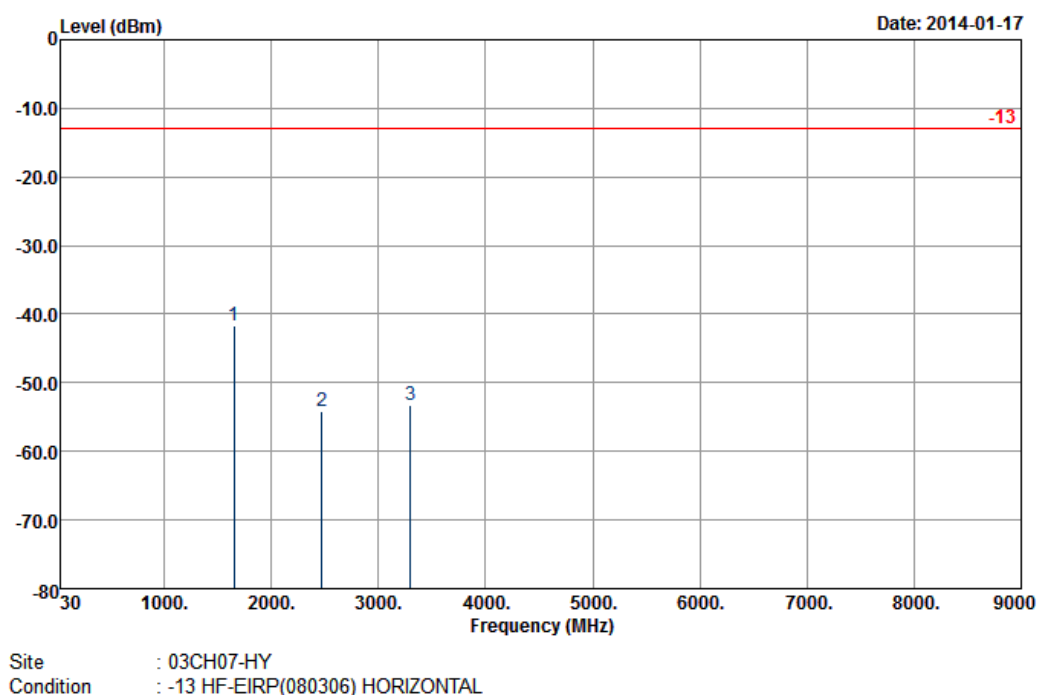
For radiated emissions above 1GHz



3.7.5 Test Result of Field Strength of Spurious Radiated

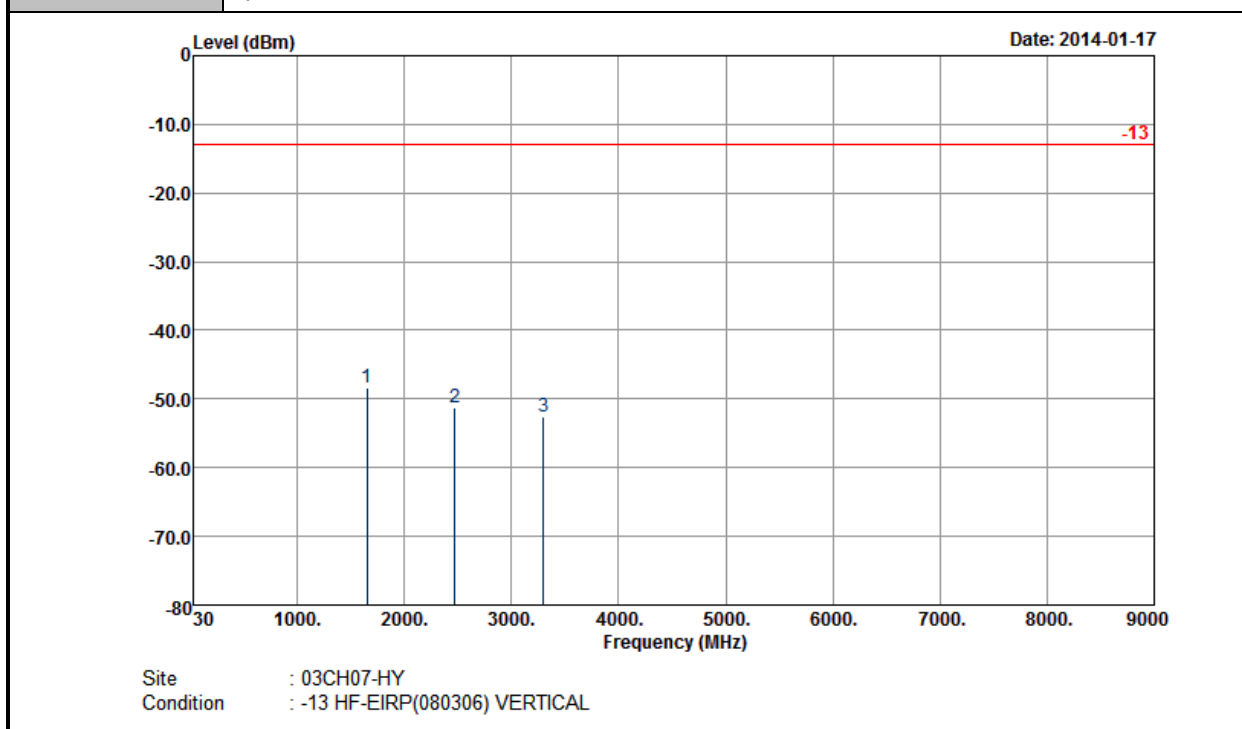
<Low Channel>

Band :	CDMA2000 BC0	Temperature :	21~23°C
Test Mode :	1xRTT_RC3+SO55 Link (QPSK) for Sample 1 with Battery 2	Relative Humidity :	47~49%
Channel	1013	Polarization :	Horizontal
Test Engineer :	Ken Wu		
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
1649	-41.65	-13	-28.65	-50.5	-43.5	1.53	5.53	H	Pass
2474	-54.06	-13	-41.06	-67.16	-56	2.06	6.15	H	Pass
3298	-53.20	-13	-40.20	-67.15	-56.5	2.48	7.93	H	Pass

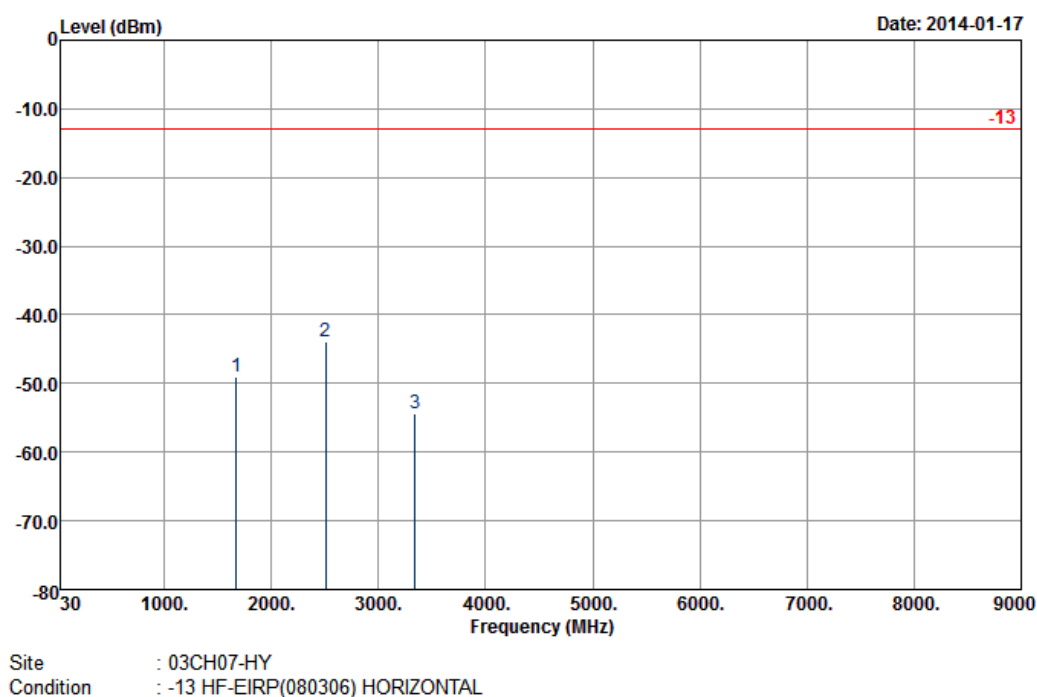
Band :	CDMA2000 BC0	Temperature :	21~23°C
Test Mode :	1xRTT_RC3+SO55 Link (QPSK) for Sample 1 with Battery 2	Relative Humidity :	47~49%
Channel	1013	Polarization :	Vertical
Test Engineer :	Ken Wu		
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



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
1649	-48.25	-13	-35.25	-59.08	-50.1	1.53	5.53	V	Pass
2474	-51.26	-13	-38.26	-65.24	-53.2	2.06	6.15	V	Pass
3298	-52.60	-13	-39.60	-68.21	-55.9	2.48	7.93	V	Pass

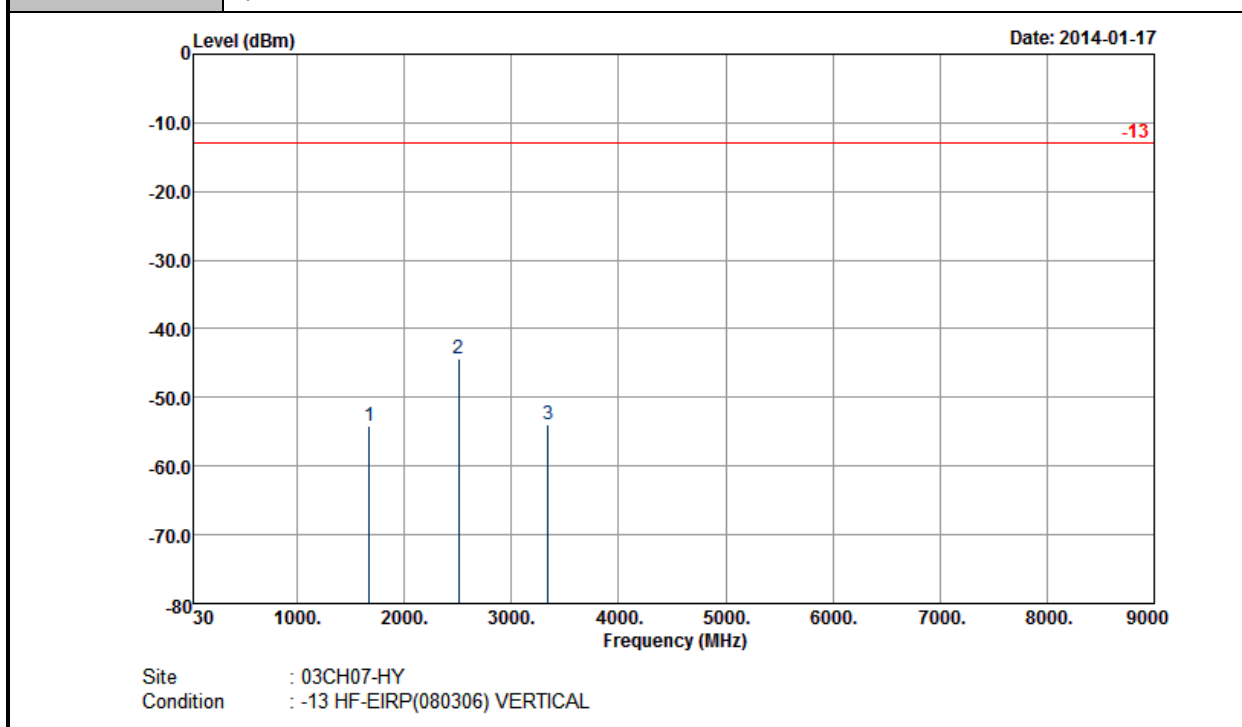
<Middle Channel>

Band :	CDMA2000 BC0	Temperature :	21~23°C
Test Mode :	1xRTT_RC3+SO55 Link (QPSK) for Sample 1 with Battery 2	Relative Humidity :	47~49%
Channel	384	Polarization :	Horizontal
Test Engineer :	Ken Wu		
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	-49.13	-13	-36.13	-58.07	-53	1.62	5.49	H	Pass
2509	-43.98	-13	-30.98	-57	-48.1	2.1	6.22	H	Pass
3345	-54.36	-13	-41.36	-68.48	-59.4	3.03	8.07	H	Pass

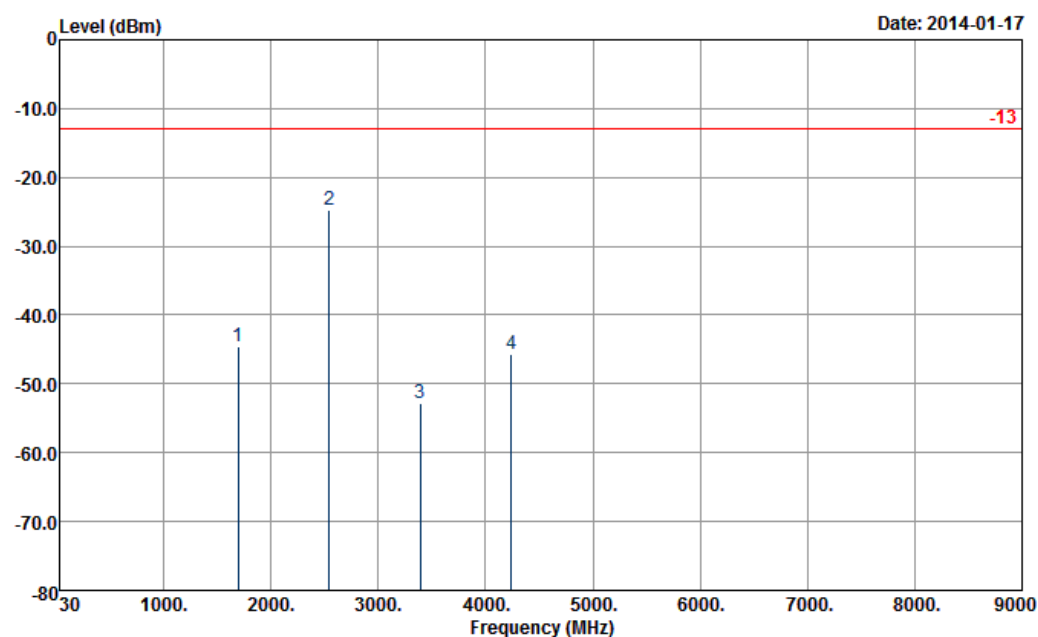
Band :	CDMA2000 BC0	Temperature :	21~23°C
Test Mode :	1xRTT_RC3+SO55 Link (QPSK) for Sample 1 with Battery 2	Relative Humidity :	47~49%
Channel	384	Polarization :	Vertical
Test Engineer :	Ken Wu		
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



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	-54.23	-13	-41.23	-65.35	-58.1	1.62	5.49	V	Pass
2509	-44.28	-13	-31.28	-58.56	-48.4	2.1	6.22	V	Pass
3345	-53.86	-13	-40.86	-69.56	-58.9	3.03	8.07	V	Pass

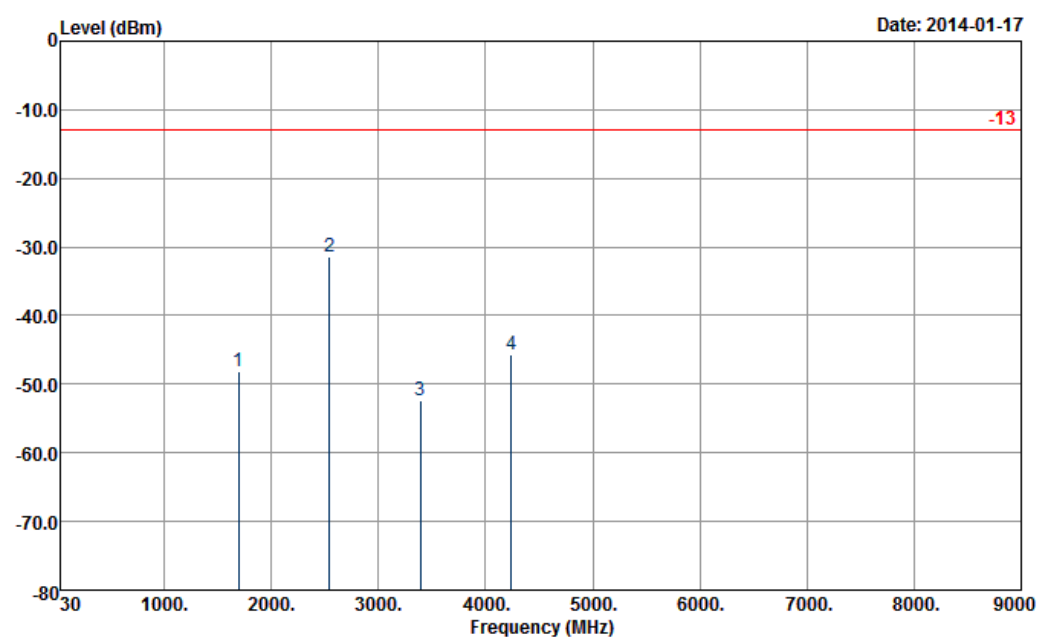
<High Channel>

Band :	CDMA2000 BC0	Temperature :	21~23°C
Test Mode :	1xRTT_RC3+SO55 Link (QPSK) for Sample 1 with Battery 2	Relative Humidity :	47~49%
Channel	777	Polarization :	Horizontal
Test Engineer :	Ken Wu		
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
1696	-44.62	-13	-31.62	-53.71	-48.5	1.57	5.45	H	Pass
2544	-24.84	-13	-11.84	-38.17	-29.1	2.02	6.28	H	Pass
3393	-52.80	-13	-39.80	-66.84	-58.7	2.3	8.20	H	Pass
4241	-45.79	-13	-32.79	-62.19	-52.3	2.73	9.24	H	Pass

Band :	CDMA2000 BC0	Temperature :	21~23°C
Test Mode :	1xRTT_RC3+SO55 Link (QPSK) for Sample 1 with Battery 2	Relative Humidity :	47~49%
Channel	777	Polarization :	Vertical
Test Engineer :	Ken Wu		
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

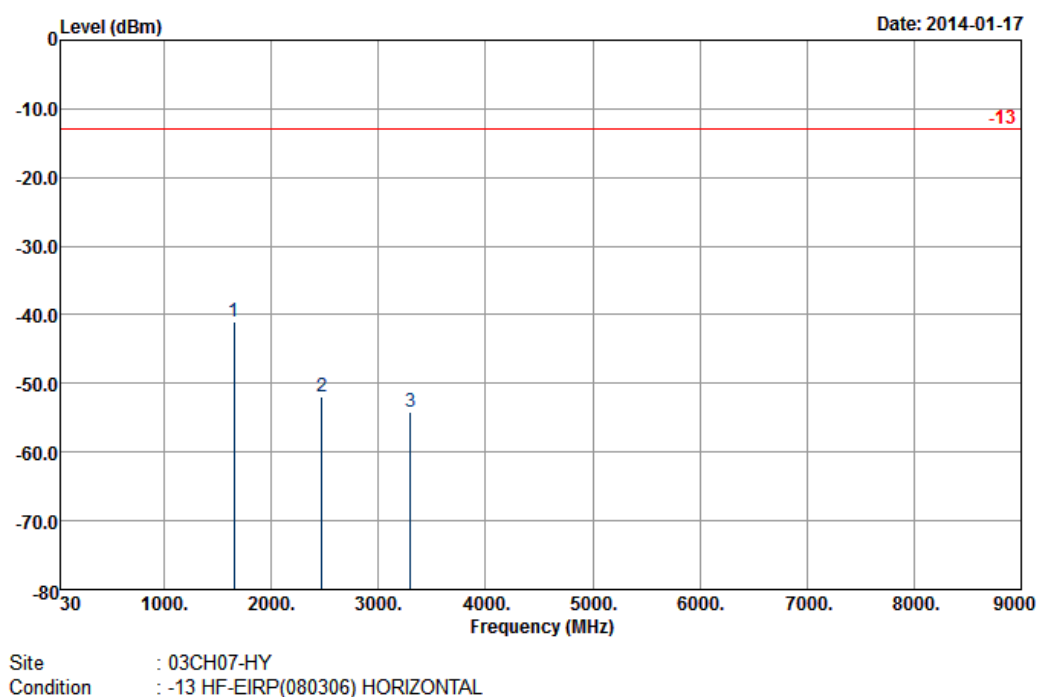


Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) VERTICAL

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
1696	-48.22	-13	-35.22	-59.45	-52.1	1.57	5.45	V	Pass
2544	-31.34	-13	-18.34	-45.27	-35.6	2.02	6.28	V	Pass
3393	-52.30	-13	-39.30	-68.2	-58.2	2.3	8.20	V	Pass
4241	-45.79	-13	-32.79	-63.16	-52.3	2.73	9.24	V	Pass

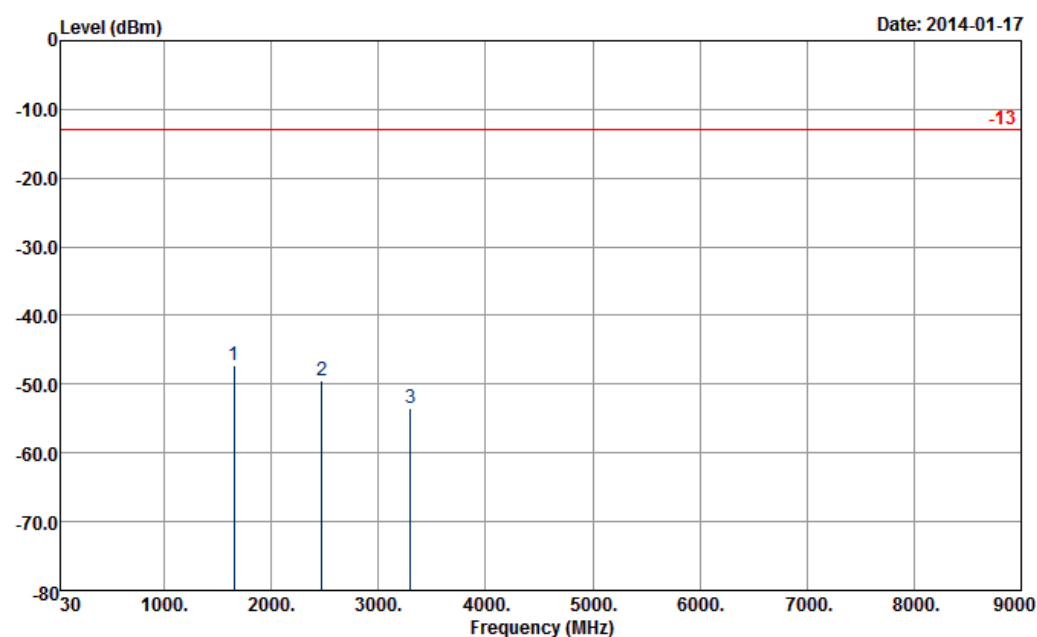
<Low Channel>

Band :	CDMA2000 BC0	Temperature :	21~23°C
Test Mode :	1xRTT_RC3+SO55 Link (QPSK) for Sample 1 with Battery 1	Relative Humidity :	47~49%
Channel	1013	Polarization :	Horizontal
Test Engineer :	Ken Wu		
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
1649	-40.95	-13	-27.95	-50.23	-42.8	1.53	5.53	H	Pass
2474	-51.96	-13	-38.96	-65.2	-53.9	2.06	6.15	H	Pass
3298	-54.20	-13	-41.20	-68.37	-57.5	2.48	7.93	H	Pass

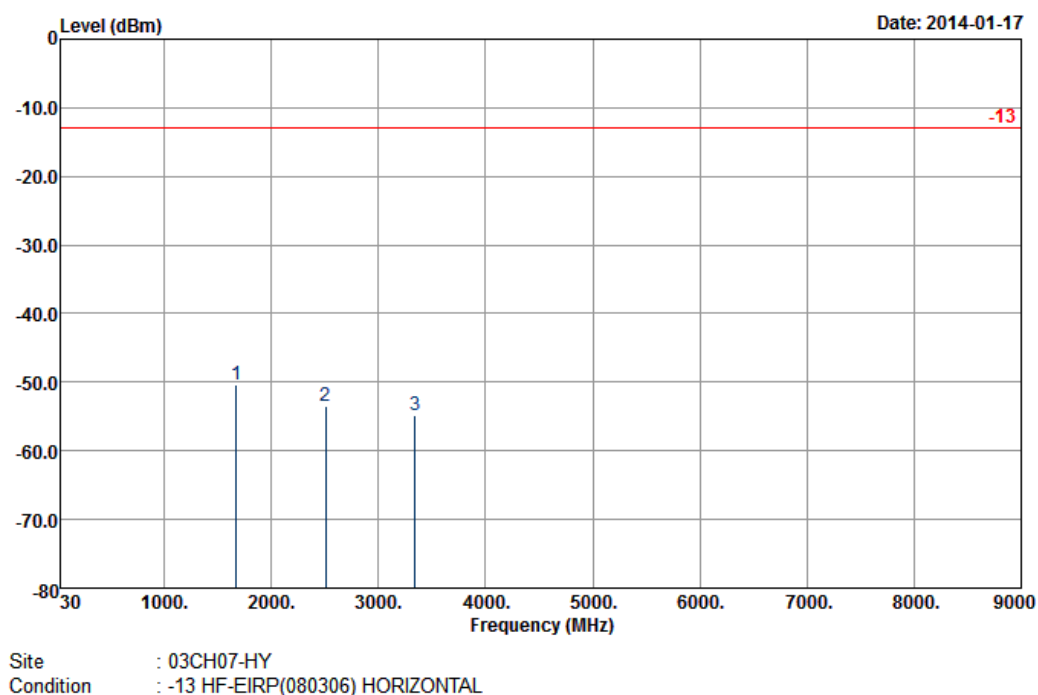
Band :	CDMA2000 BC0	Temperature :	21~23°C
Test Mode :	1xRTT_RC3+SO55 Link (QPSK) for Sample 1 with Battery 1	Relative Humidity :	47~49%
Channel	1013	Polarization :	Vertical
Test Engineer :	Ken Wu		
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



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
1649	-47.25	-13	-34.25	-58.4	-49.1	1.53	5.53	V	Pass
2474	-49.56	-13	-36.56	-63.32	-51.5	2.06	6.15	V	Pass
3298	-53.50	-13	-40.50	-68.77	-56.8	2.48	7.93	V	Pass

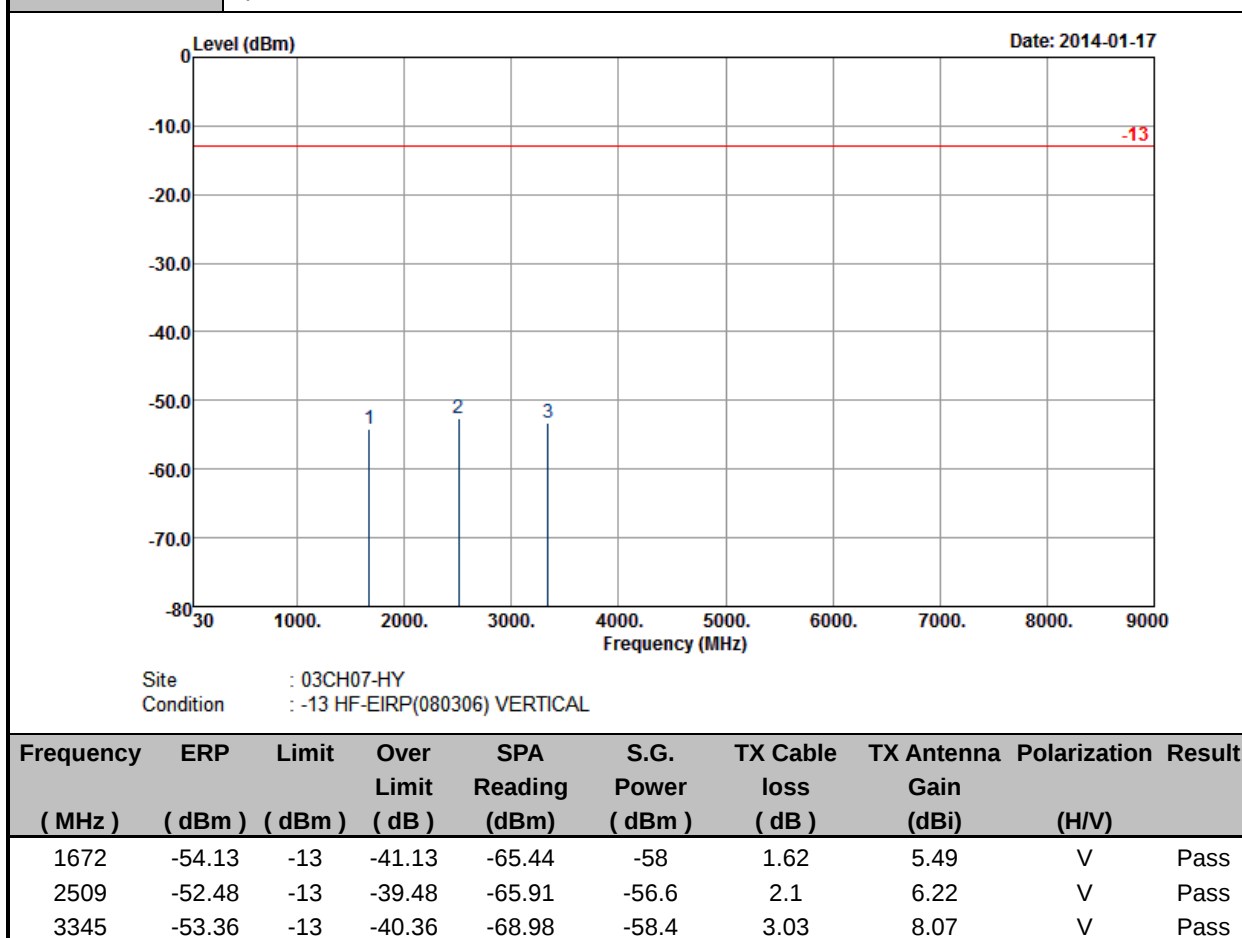
<Middle Channel>

Band :	CDMA2000 BC0	Temperature :	21~23°C
Test Mode :	1xRTT_RC3+SO55 Link (QPSK) for Sample 1 with Battery 1	Relative Humidity :	47~49%
Channel	384	Polarization :	Horizontal
Test Engineer :	Ken Wu		
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



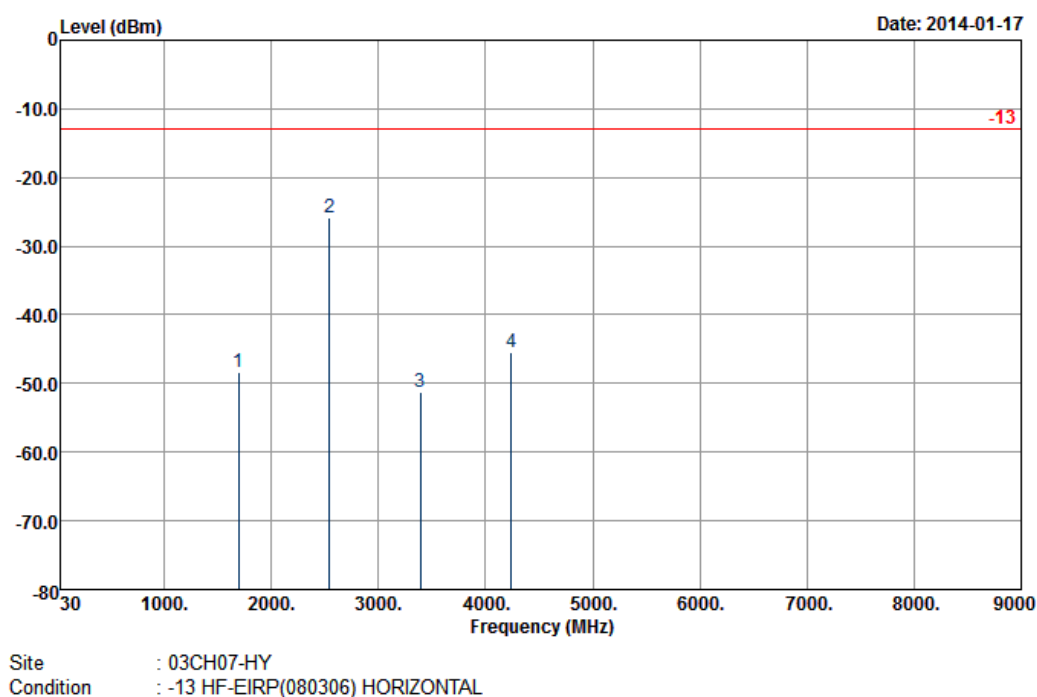
Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1672	-50.33	-13	-37.33	-59.1	-54.2	1.62	5.49	H	Pass
2509	-53.48	-13	-40.48	-66.54	-57.6	2.1	6.22	H	Pass
3345	-54.86	-13	-41.86	-69.03	-59.9	3.03	8.07	H	Pass

Band :	CDMA2000 BC0	Temperature :	21~23°C
Test Mode :	1xRTT_RC3+SO55 Link (QPSK) for Sample 1 with Battery 1	Relative Humidity :	47~49%
Channel	384	Polarization :	Vertical
Test Engineer :	Ken Wu		
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



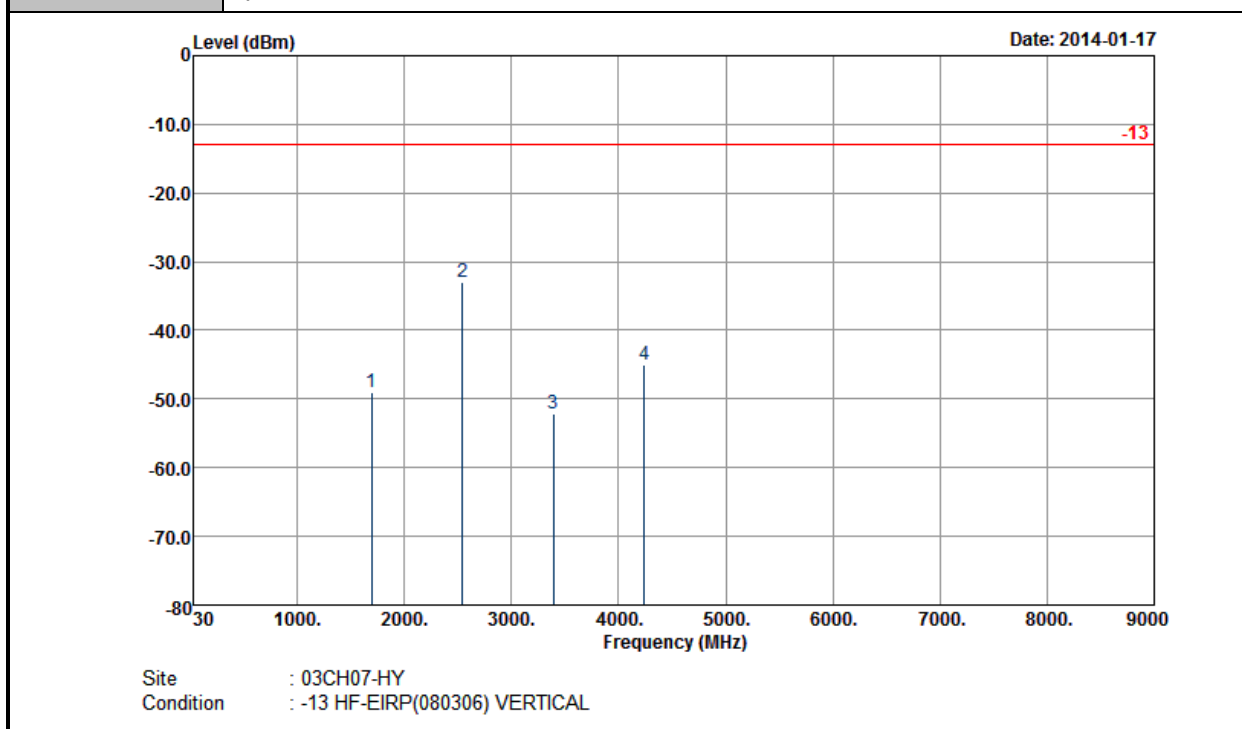
<High Channel>

Band :	CDMA2000 BC0	Temperature :	21~23°C
Test Mode :	1xRTT_RC3+SO55 Link (QPSK) for Sample 1 with Battery 1	Relative Humidity :	47~49%
Channel	777	Polarization :	Horizontal
Test Engineer :	Ken Wu		
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
1696	-48.42	-13	-35.42	-57.61	-52.3	1.57	5.45	H	Pass
2544	-25.94	-13	-12.94	-39.5	-30.2	2.02	6.28	H	Pass
3393	-51.20	-13	-38.20	-65.31	-57.1	2.3	8.20	H	Pass
4241	-45.39	-13	-32.39	-61.82	-51.9	2.73	9.24	H	Pass

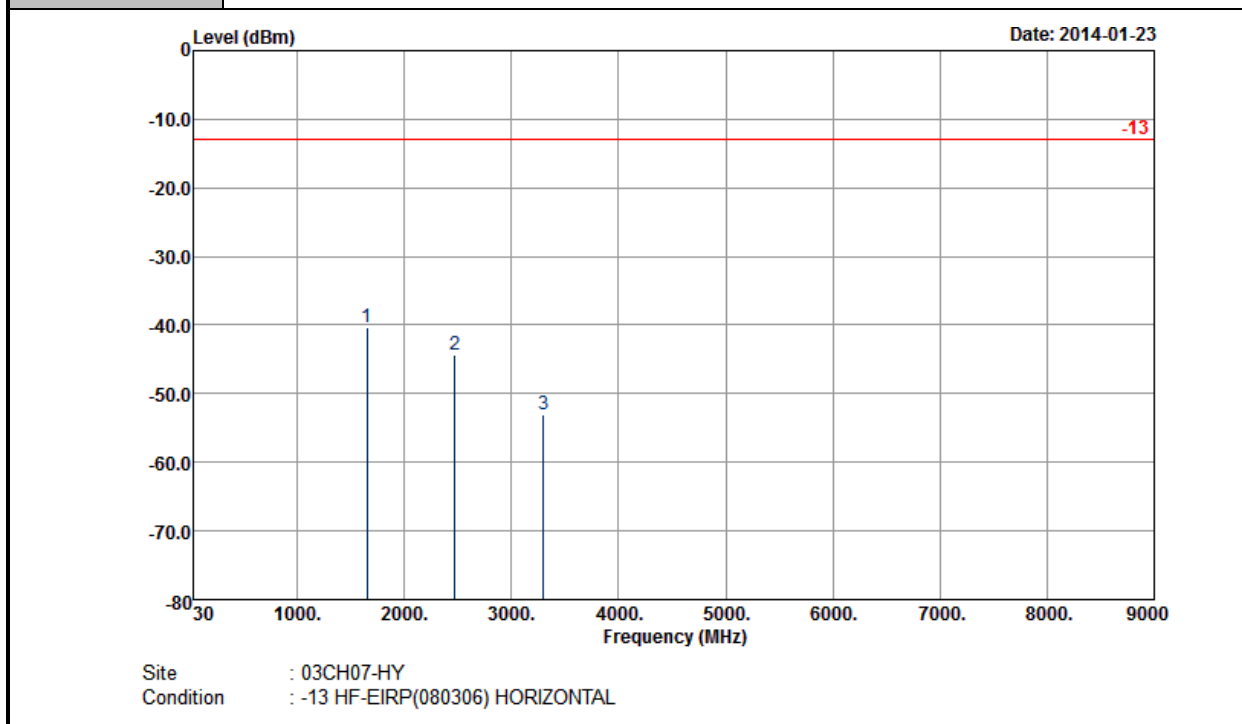
Band :	CDMA2000 BC0	Temperature :	21~23°C
Test Mode :	1xRTT_RC3+SO55 Link (QPSK) for Sample 1 with Battery 1	Relative Humidity :	47~49%
Channel	777	Polarization :	Vertical
Test Engineer :	Ken Wu		
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



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
1696	-48.92	-13	-35.92	-60.53	-52.8	1.57	5.45	V	Pass
2544	-32.94	-13	-19.94	-46.66	-37.2	2.02	6.28	V	Pass
3393	-52.20	-13	-39.20	-67.85	-58.1	2.3	8.20	V	Pass
4241	-44.99	-13	-31.99	-62.65	-51.5	2.73	9.24	V	Pass

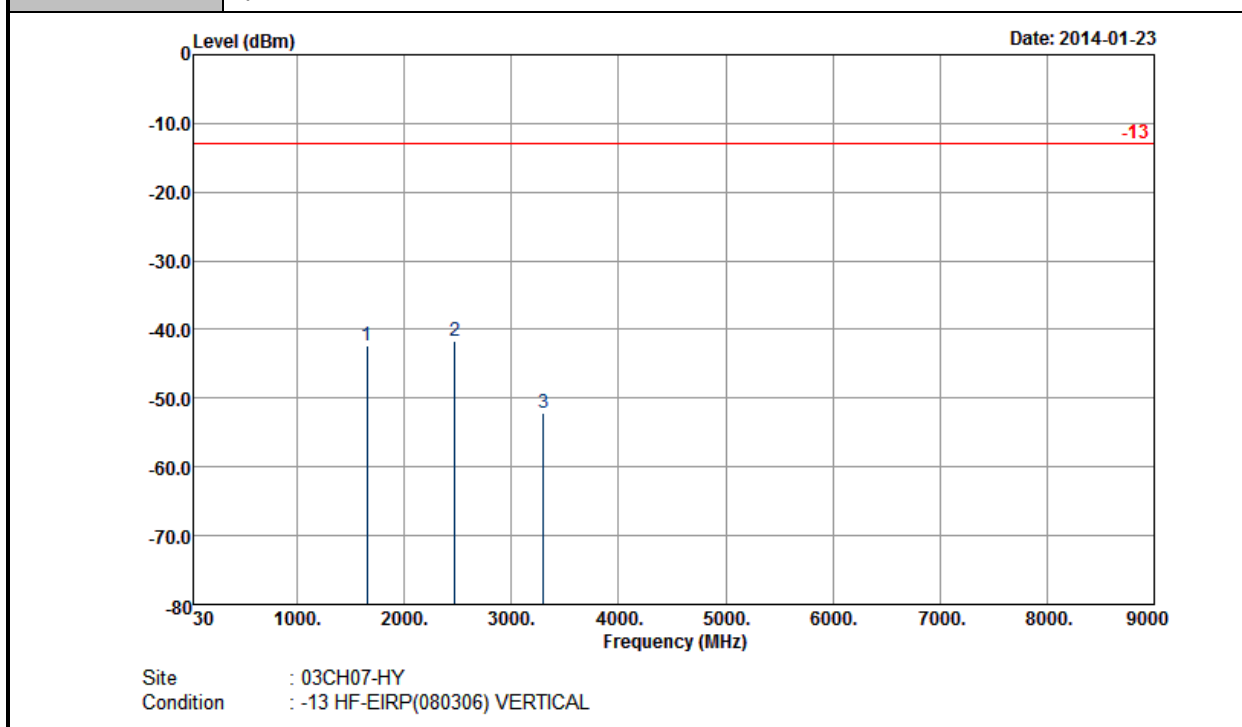
<Low Channel>

Band :	CDMA2000 BC0	Temperature :	21~23°C
Test Mode :	1xRTT_RC3+SO55 Link (QPSK) for Sample 2 with Battery 2	Relative Humidity :	47~49%
Channel	1013	Polarization :	Horizontal
Test Engineer :	Ken Wu		
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
1649	-40.25	-13	-27.25	-49.45	-42.1	1.53	5.53	H	Pass
2474	-44.26	-13	-31.26	-57.41	-46.2	2.06	6.15	H	Pass
3298	-53.10	-13	-40.10	-67.41	-56.4	2.48	7.93	H	Pass

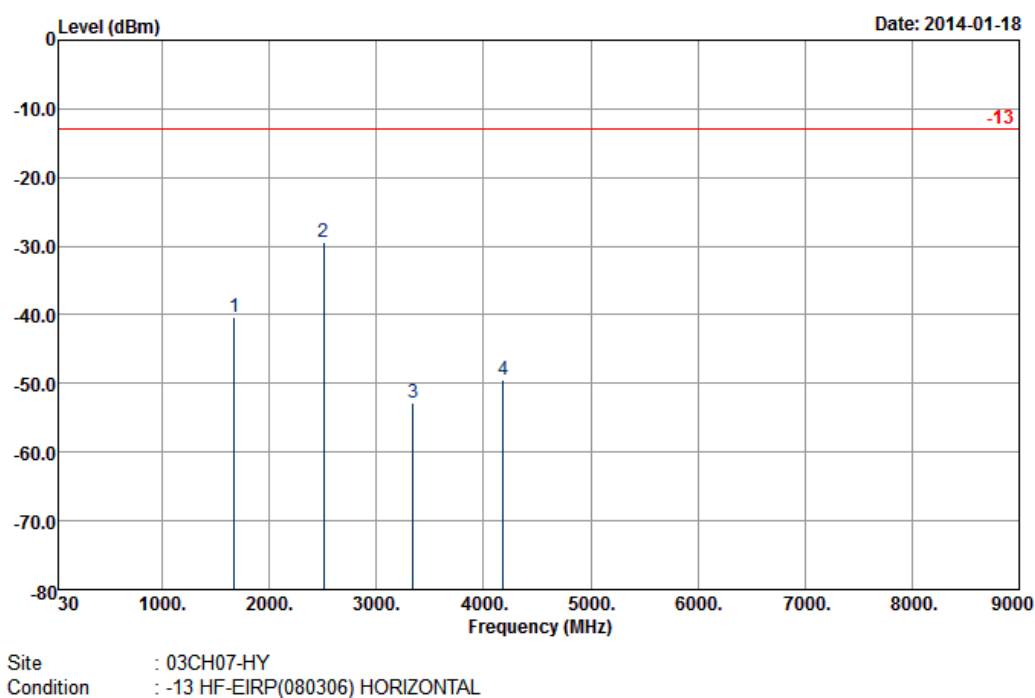
Band :	CDMA2000 BC0	Temperature :	21~23°C
Test Mode :	1xRTT_RC3+SO55 Link (QPSK) for Sample 2 with Battery 2	Relative Humidity :	47~49%
Channel	1013	Polarization :	Vertical
Test Engineer :	Ken Wu		
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



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
1649	-42.25	-13	-29.25	-53.2	-44.1	1.53	5.53	V	Pass
2474	-41.56	-13	-28.56	-55.53	-43.5	2.06	6.15	V	Pass
3298	-52.20	-13	-39.20	-68.03	-55.5	2.48	7.93	V	Pass

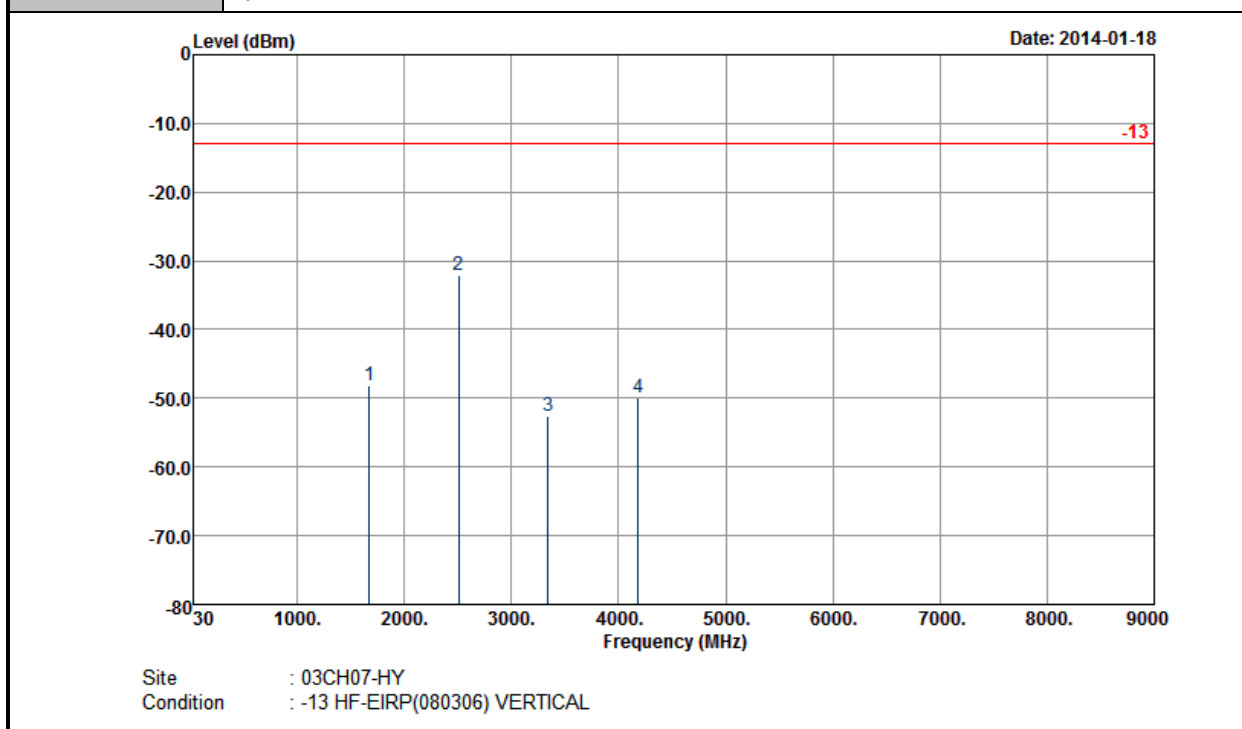
<Middle Channel>

Band :	CDMA2000 BC0	Temperature :	21~23°C
Test Mode :	1xRTT_RC3+SO55 Link (QPSK) for Sample 2 with Battery 2	Relative Humidity :	47~49%
Channel	384	Polarization :	Horizontal
Test Engineer :	Ken Wu		
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	-40.43	-13	-27.43	-49.21	-44.3	1.62	5.49	H	Pass
2509	-29.38	-13	-16.38	-42.86	-33.5	2.1	6.22	H	Pass
3345	-52.86	-13	-39.86	-66.85	-57.9	3.03	8.07	H	Pass
4182	-49.41	-13	-36.41	-65.5	-56.1	2.52	9.21	H	Pass

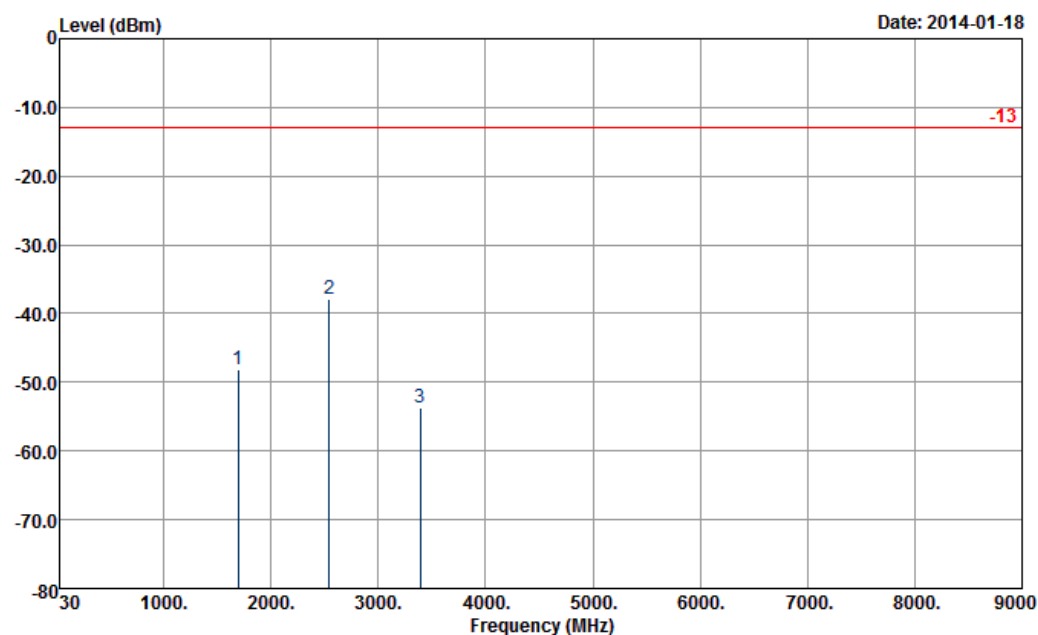
Band :	CDMA2000 BC0	Temperature :	21~23°C
Test Mode :	1xRTT_RC3+SO55 Link (QPSK) for Sample 2 with Battery 2	Relative Humidity :	47~49%
Channel	384	Polarization :	Vertical
Test Engineer :	Ken Wu		
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



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	-48.23	-13	-35.23	-59.43	-52.1	1.62	5.49	V	Pass
2509	-31.98	-13	-18.98	-46.04	-36.1	2.1	6.22	V	Pass
3345	-52.56	-13	-39.56	-68.29	-57.6	3.03	8.07	V	Pass
4182	-49.81	-13	-36.81	-67.12	-56.5	2.52	9.21	V	Pass

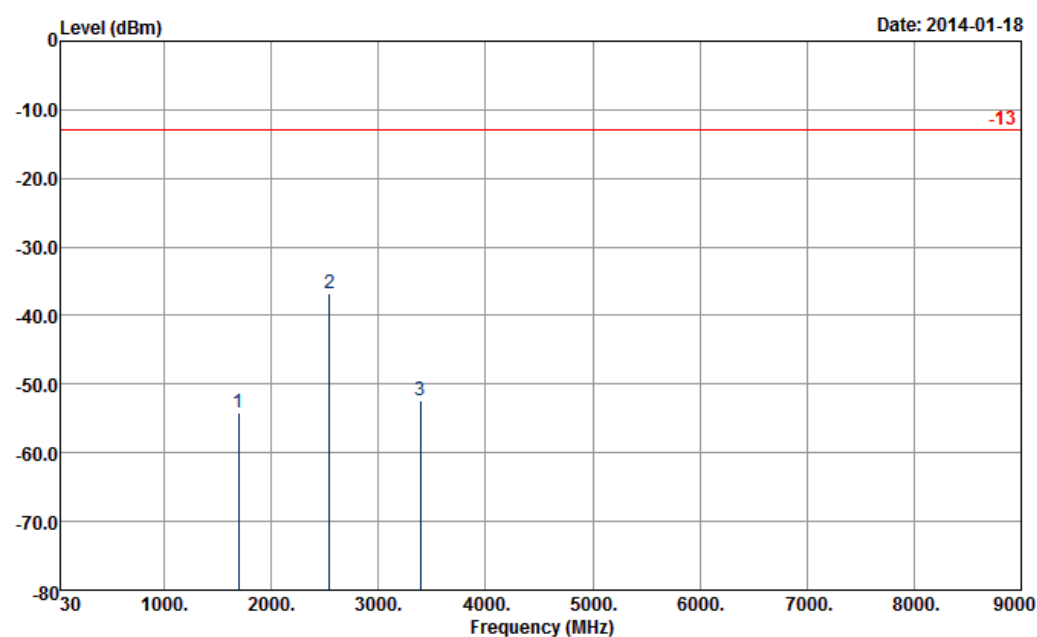
<High Channel>

Band :	CDMA2000 BC0	Temperature :	21~23°C
Test Mode :	1xRTT_RC3+SO55 Link (QPSK) for Sample 2 with Battery 2	Relative Humidity :	47~49%
Channel	777	Polarization :	Horizontal
Test Engineer :	Ken Wu		
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
1696	-48.12	-13	-35.12	-57.26	-52	1.57	5.45	H	Pass
2544	-37.84	-13	-24.84	-51.13	-42.1	2.02	6.28	H	Pass
3393	-53.60	-13	-40.60	-67.17	-59.5	2.3	8.20	H	Pass

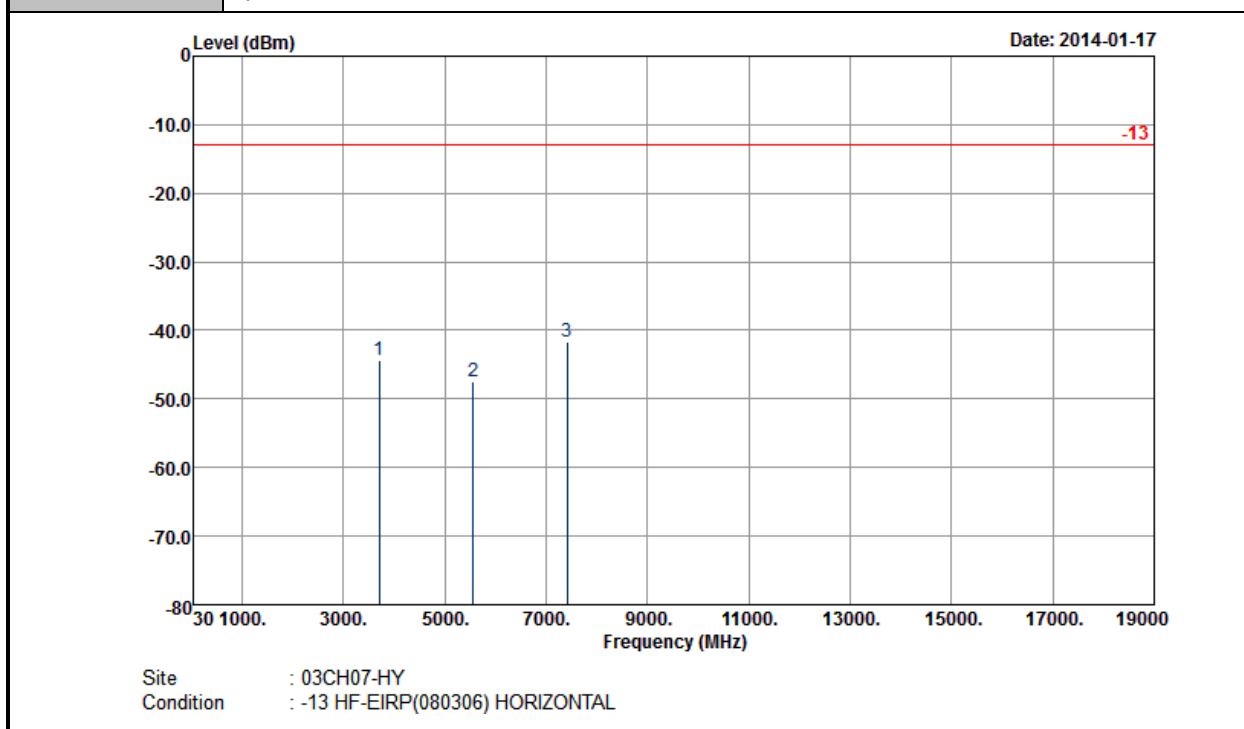
Band :	CDMA2000 BC0	Temperature :	21~23°C
Test Mode :	1xRTT_RC3+SO55 Link (QPSK) for Sample 2 with Battery 2	Relative Humidity :	47~49%
Channel	777	Polarization :	Vertical
Test Engineer :	Ken Wu		
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



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
1696	-54.22	-13	-41.22	-65.58	-58.1	1.57	5.45	V	Pass
2544	-36.84	-13	-23.84	-50.86	-41.1	2.02	6.28	V	Pass
3393	-52.30	-13	-39.30	-67.8	-58.2	2.3	8.20	V	Pass

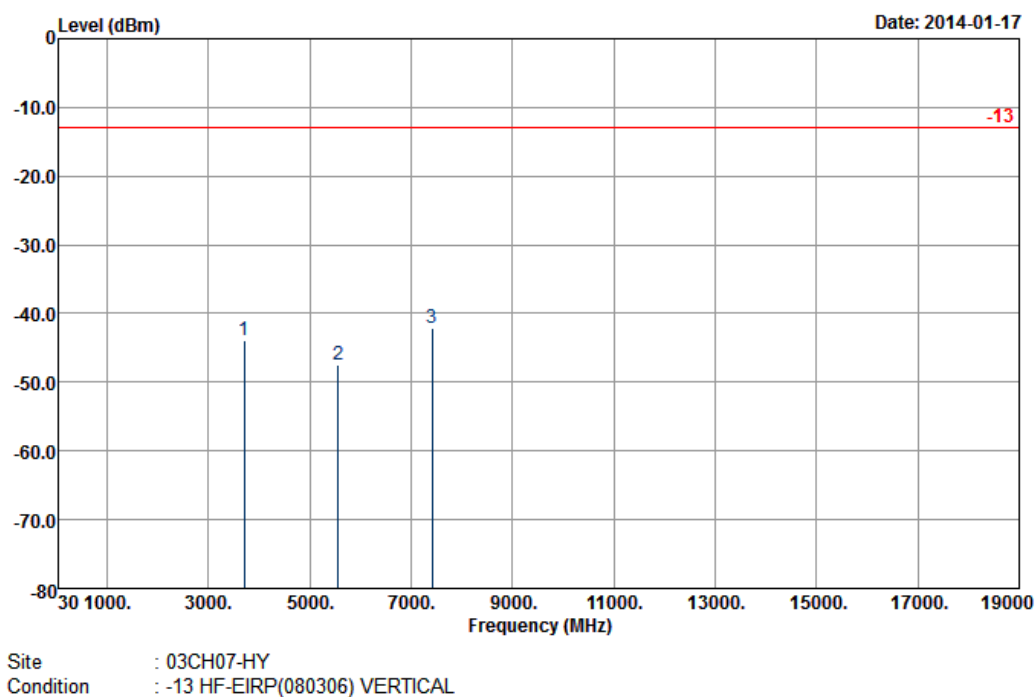
<Low Channel>

Band :	CDMA2000 BC1	Temperature :	21~23°C
Test Mode :	1xRTT_RC3+SO32 Link (QPSK) for Sample 1 with Battery 2	Relative Humidity :	47~49%
Channel	25	Polarization :	Horizontal
Test Engineer :	Ken Wu		
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
3702	-44.25	-13	-31.25	-59.68	-50.4	2.59	8.74	H	Pass
5553	-47.54	-13	-34.54	-68.31	-55.2	3.04	10.70	H	Pass
7405	-41.66	-13	-28.66	-69.24	-50.4	3.28	12.02	H	Pass

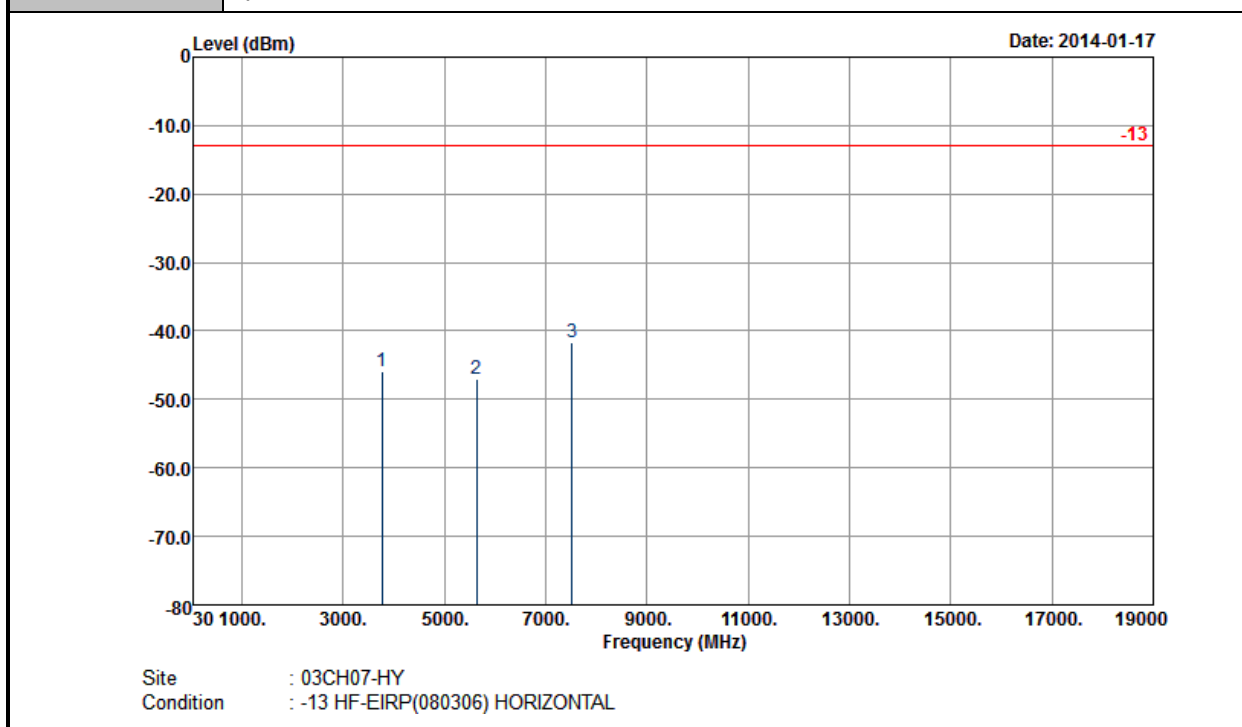
Band :	CDMA2000 BC1	Temperature :	21~23°C
Test Mode :	1xRTT_RC3+SO32 Link (QPSK) for Sample 1 with Battery 2	Relative Humidity :	47~49%
Channel	25	Polarization :	Vertical
Test Engineer :	Ken Wu		
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



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
3702	-43.95	-13	-30.95	-60.02	-50.1	2.59	8.74	V	Pass
5553	-47.54	-13	-34.54	-68.36	-55.2	3.04	10.70	V	Pass
7405	-42.06	-13	-29.06	-69.24	-50.8	3.28	12.02	V	Pass

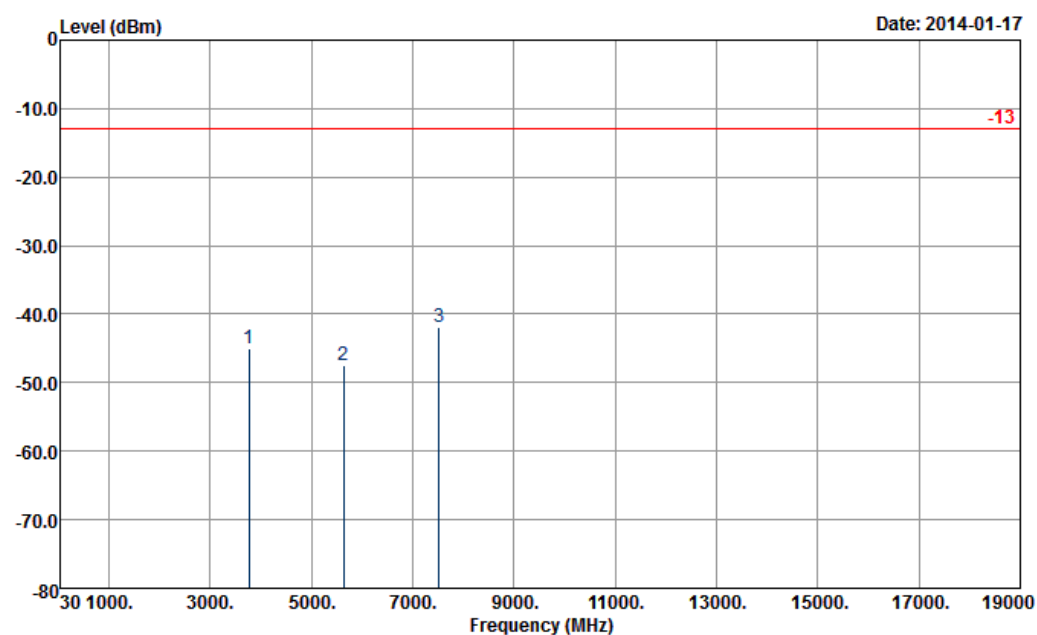
<Middle Channel>

Band :	CDMA2000 BC1	Temperature :	21~23°C
Test Mode :	1xRTT_RC3+SO32 Link (QPSK) for Sample 1 with Battery 2	Relative Humidity :	47~49%
Channel	600	Polarization :	Horizontal
Test Engineer :	Ken Wu		
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	-46.00	-13	-33.00	-61.43	-52.3	2.51	8.81	H	Pass
5636	-47.09	-13	-34.09	-67.95	-54.8	2.99	10.70	H	Pass
7520	-41.57	-13	-28.57	-68.93	-50.1	3.59	12.12	H	Pass

Band :	CDMA2000 BC1	Temperature :	21~23°C
Test Mode :	1xRTT_RC3+SO32 Link (QPSK) for Sample 1 with Battery 2	Relative Humidity :	47~49%
Channel	600	Polarization :	Vertical
Test Engineer :	Ken Wu		
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

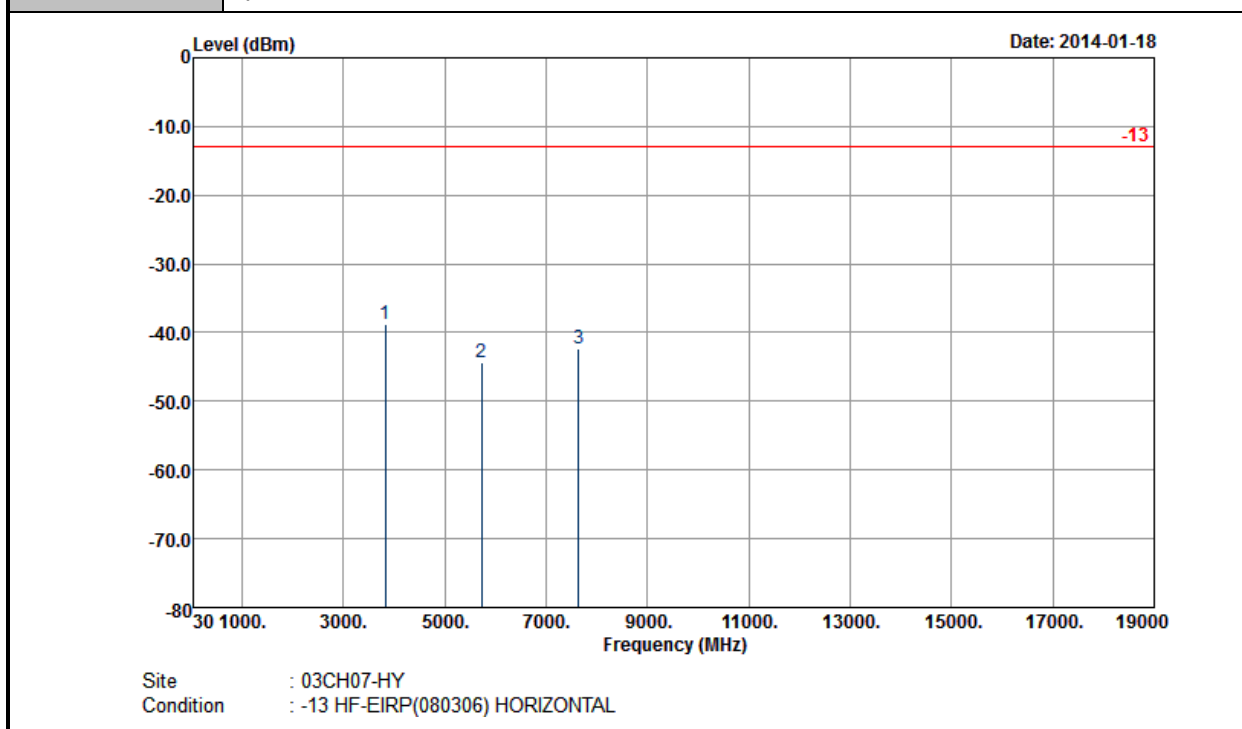


Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) VERTICAL

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	-45.10	-13	-32.10	-61.48	-51.4	2.51	8.81	V	Pass
5636	-47.49	-13	-34.49	-68.54	-55.2	2.99	10.70	V	Pass
7520	-41.87	-13	-28.87	-69.13	-50.4	3.59	12.12	V	Pass

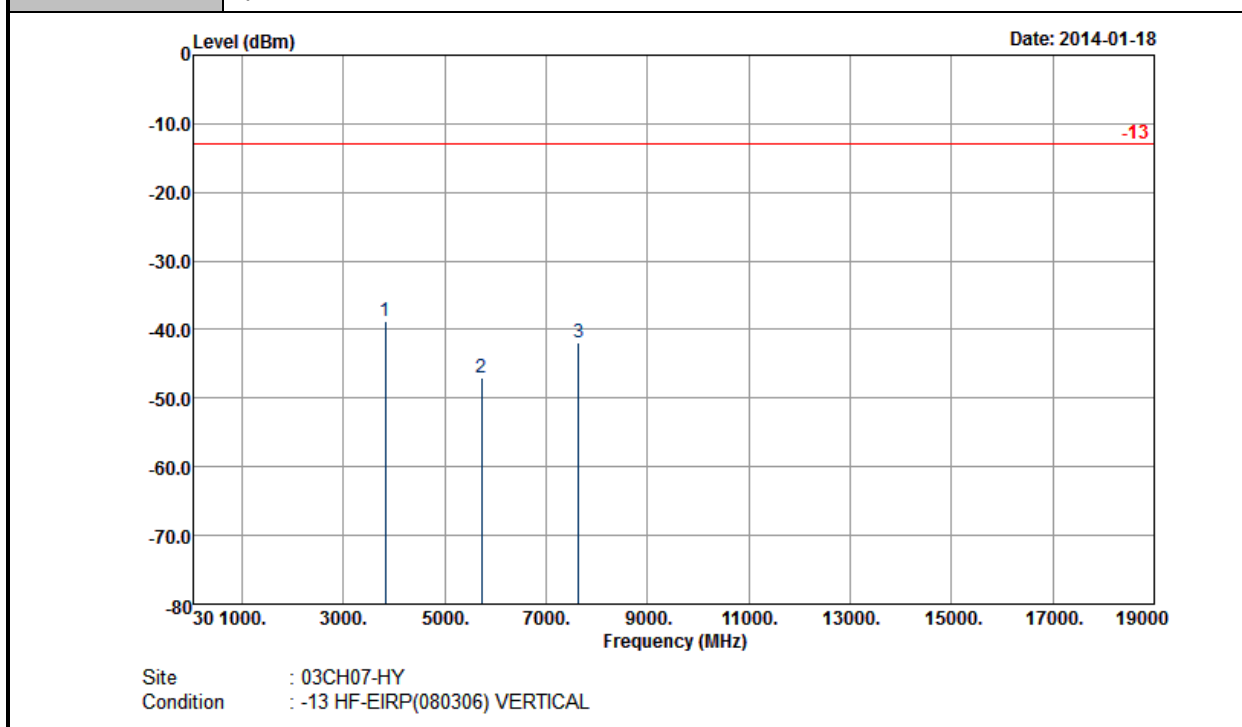
<High Channel>

Band :	CDMA2000 BC1	Temperature :	21~23°C
Test Mode :	1xRTT_RC3+SO32 Link (QPSK) for Sample 1 with Battery 2	Relative Humidity :	47~49%
Channel	1175	Polarization :	Horizontal
Test Engineer :	Ken Wu		
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
3817	-38.69	-13	-25.69	-54.45	-45.1	2.47	8.88	H	Pass
5726	-44.40	-13	-31.40	-65.67	-52.1	3	10.70	H	Pass
7635	-42.42	-13	-29.42	-69.19	-51.2	3.43	12.21	H	Pass

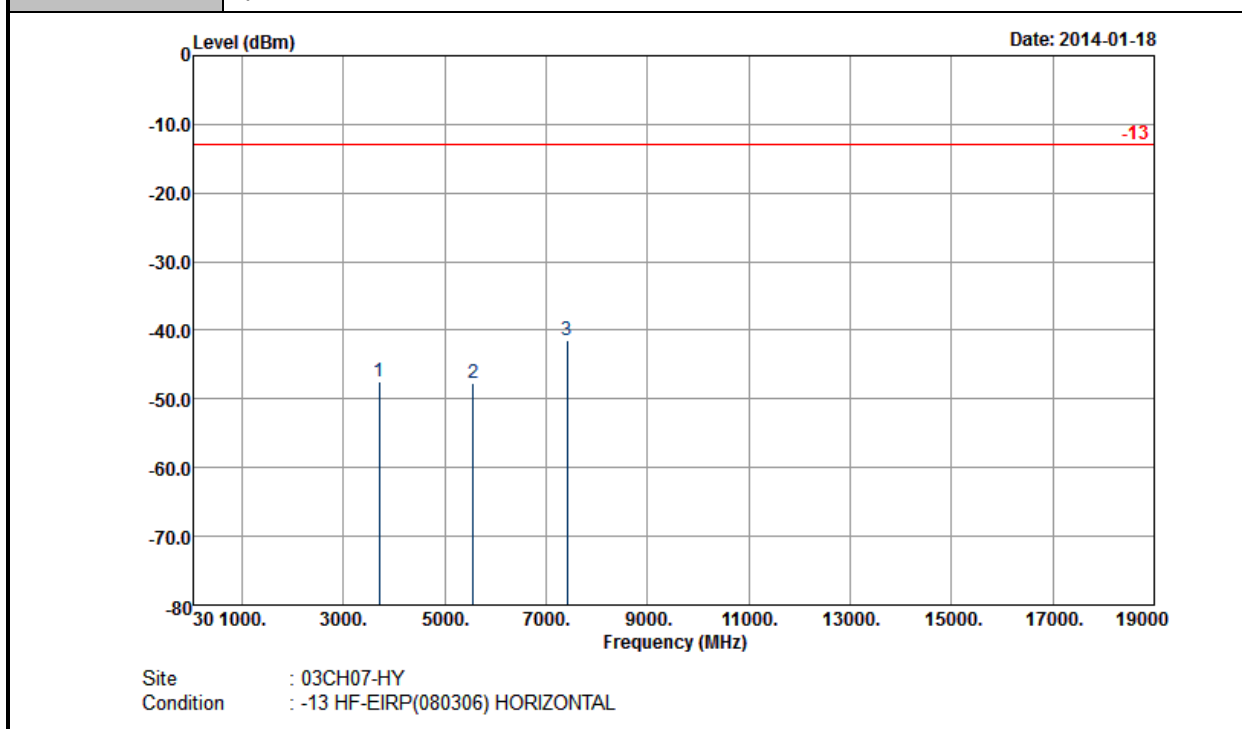
Band :	CDMA2000 BC1	Temperature :	21~23°C
Test Mode :	1xRTT_RC3+SO32 Link (QPSK) for Sample 1 with Battery 2	Relative Humidity :	47~49%
Channel	1175	Polarization :	Vertical
Test Engineer :	Ken Wu		
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



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
3817	-38.69	-13	-25.69	-54.62	-45.1	2.47	8.88	V	Pass
5726	-47.10	-13	-34.10	-68.12	-54.8	3	10.70	V	Pass
7635	-41.92	-13	-28.92	-68.39	-50.7	3.43	12.21	V	Pass

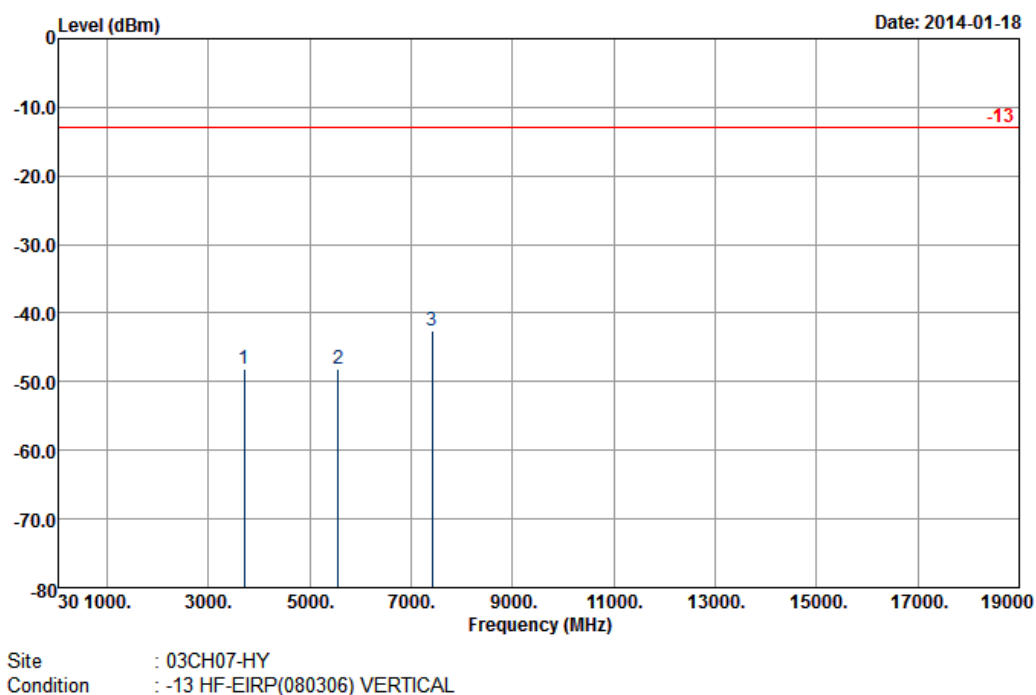
<Low Channel>

Band :	CDMA2000 BC1	Temperature :	21~23°C
Test Mode :	1xRTT_RC3+SO32 Link (QPSK) for Sample 1 with Battery 1	Relative Humidity :	47~49%
Channel	25	Polarization :	Horizontal
Test Engineer :	Ken Wu		
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
3702	-47.45	-13	-34.45	-62.72	-53.6	2.59	8.74	H	Pass
5553	-47.64	-13	-34.64	-68.64	-55.3	3.04	10.70	H	Pass
7405	-41.36	-13	-28.36	-69.08	-50.1	3.28	12.02	H	Pass

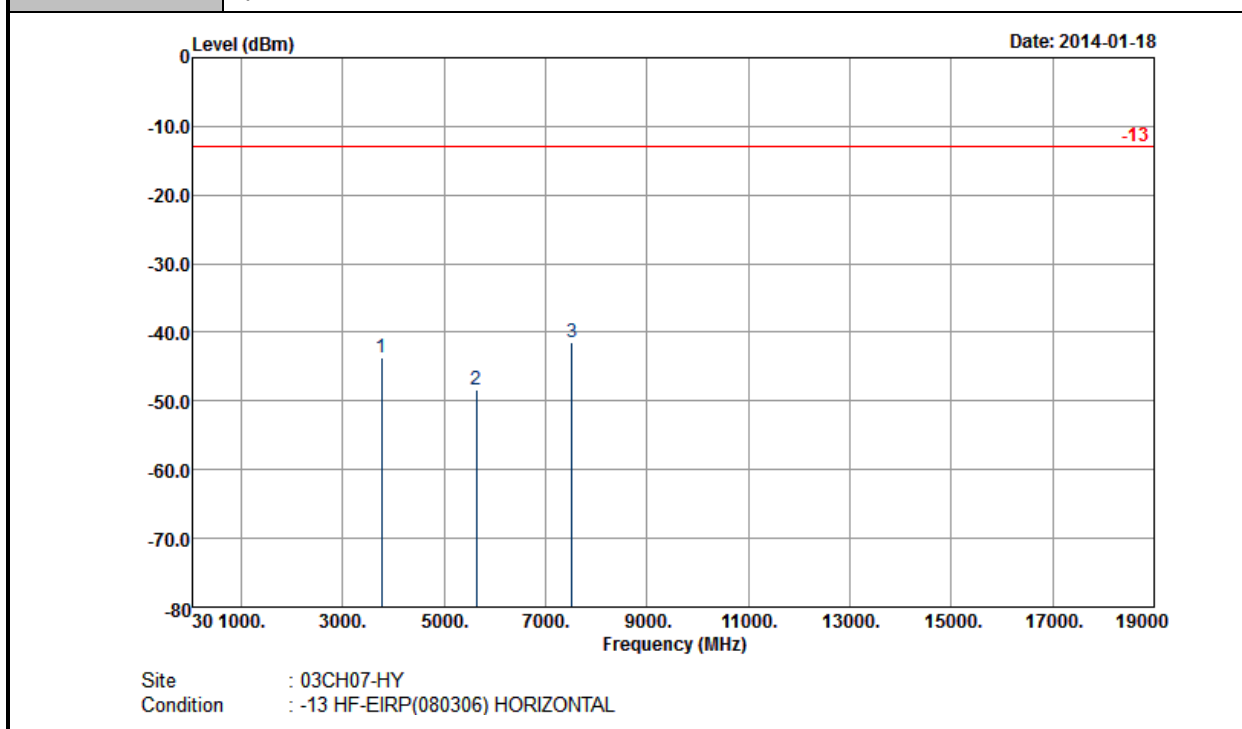
Band :	CDMA2000 BC1	Temperature :	21~23°C
Test Mode :	1xRTT_RC3+SO32 Link (QPSK) for Sample 1 with Battery 1	Relative Humidity :	47~49%
Channel	25	Polarization :	Vertical
Test Engineer :	Ken Wu		
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



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
3702	-48.05	-13	-35.05	-63.89	-54.2	2.59	8.74	V	Pass
5553	-48.24	-13	-35.24	-68.58	-55.9	3.04	10.70	V	Pass
7405	-42.66	-13	-29.66	-70.06	-51.4	3.28	12.02	V	Pass

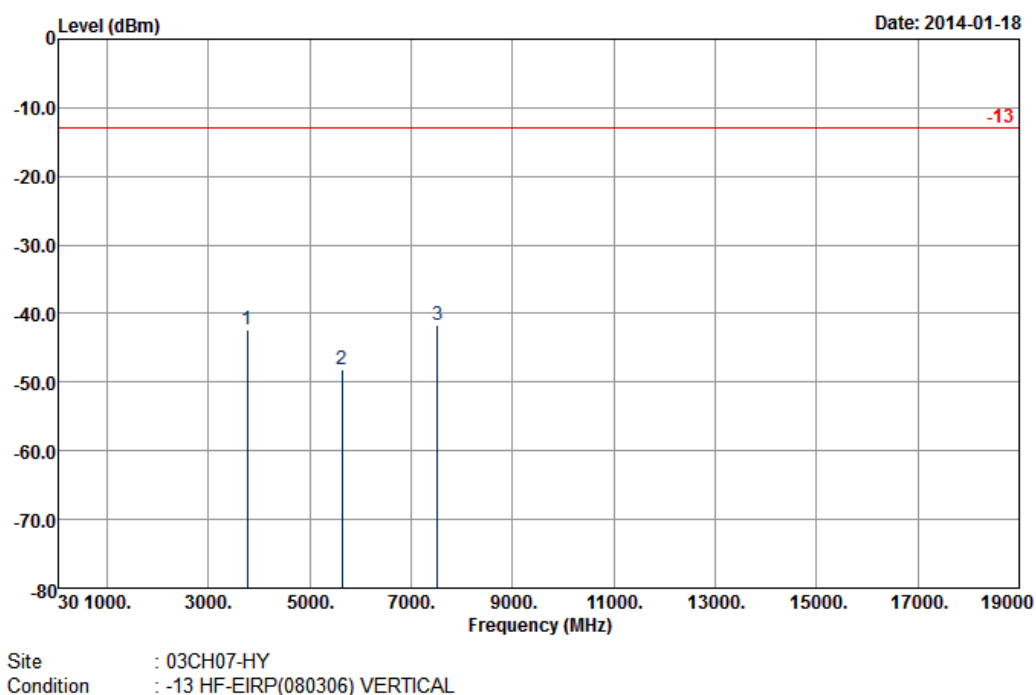
<Middle Channel>

Band :	CDMA2000 BC1	Temperature :	21~23°C
Test Mode :	1xRTT_RC3+SO32 Link (QPSK) for Sample 1 with Battery 1	Relative Humidity :	47~49%
Channel	600	Polarization :	Horizontal
Test Engineer :	Ken Wu		
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	-43.60	-13	-30.60	-59.25	-49.9	2.51	8.81	H	Pass
5636	-48.39	-13	-35.39	-69.33	-56.1	2.99	10.70	H	Pass
7520	-41.47	-13	-28.47	-68.92	-50	3.59	12.12	H	Pass

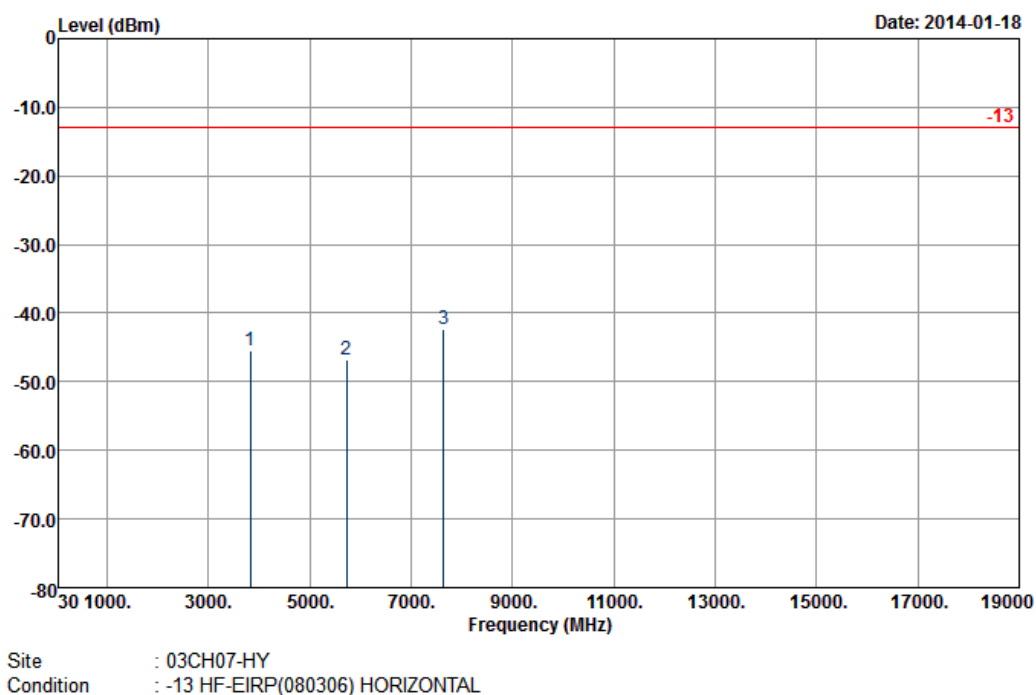
Band :	CDMA2000 BC1	Temperature :	21~23°C
Test Mode :	1xRTT_RC3+SO32 Link (QPSK) for Sample 1 with Battery 1	Relative Humidity :	47~49%
Channel	600	Polarization :	Vertical
Test Engineer :	Ken Wu		
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



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	-42.40	-13	-29.40	-58.71	-48.7	2.51	8.81	V	Pass
5636	-48.19	-13	-35.19	-69.14	-55.9	2.99	10.70	V	Pass
7520	-41.67	-13	-28.67	-68.94	-50.2	3.59	12.12	V	Pass

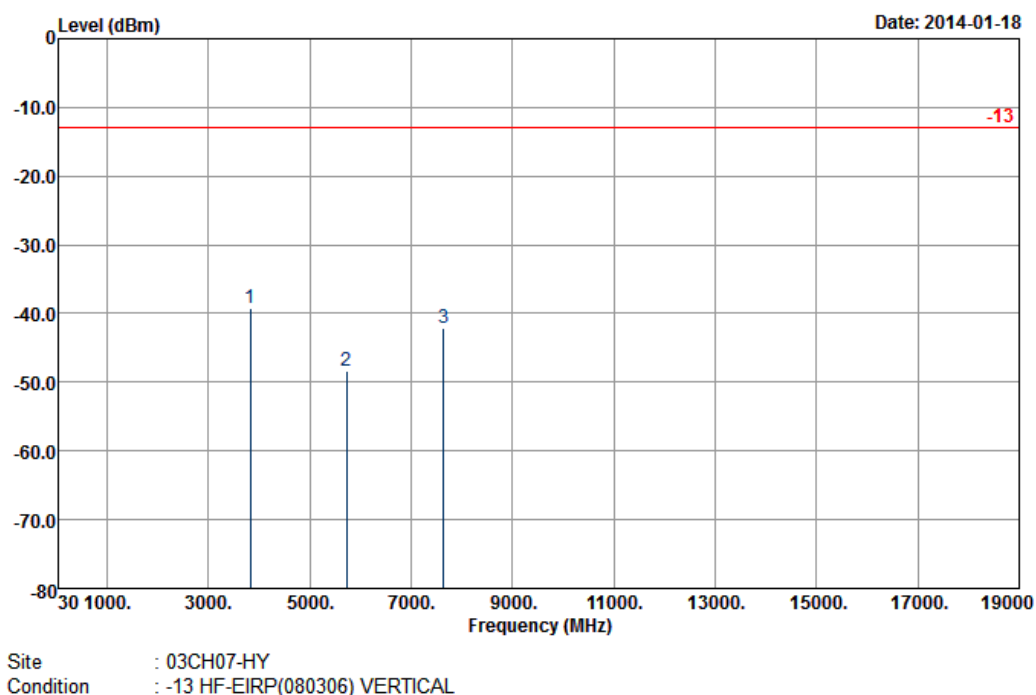
<High Channel>

Band :	CDMA2000 BC1	Temperature :	21~23°C
Test Mode :	1xRTT_RC3+SO32 Link (QPSK) for Sample 1 with Battery 1	Relative Humidity :	47~49%
Channel	1175	Polarization :	Horizontal
Test Engineer :	Ken Wu		
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
3817	-45.49	-13	-32.49	-61.2	-51.9	2.47	8.88	H	Pass
5726	-46.80	-13	-33.80	-68.06	-54.5	3	10.70	H	Pass
7635	-42.32	-13	-29.32	-68.91	-51.1	3.43	12.21	H	Pass

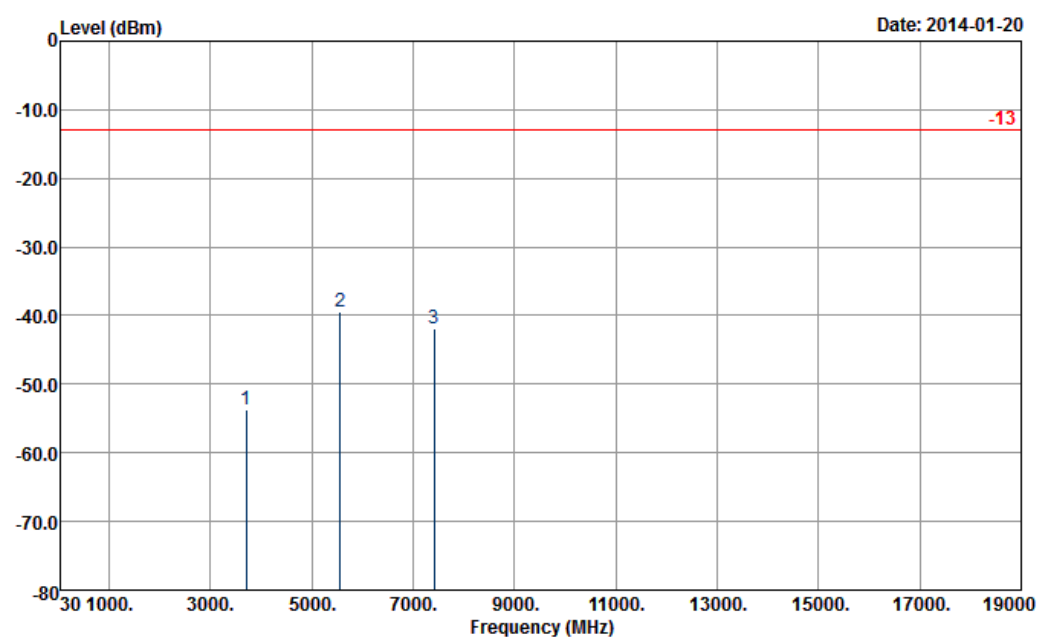
Band :	CDMA2000 BC1	Temperature :	21~23°C
Test Mode :	1xRTT_RC3+SO32 Link (QPSK) for Sample 1 with Battery 1	Relative Humidity :	47~49%
Channel	1175	Polarization :	Vertical
Test Engineer :	Ken Wu		
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



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
3817	-39.29	-13	-26.29	-55.88	-45.7	2.47	8.88	V	Pass
5726	-48.40	-13	-35.40	-69.26	-56.1	3	10.70	V	Pass
7635	-42.12	-13	-29.12	-68.98	-50.9	3.43	12.21	V	Pass

<Low Channel>

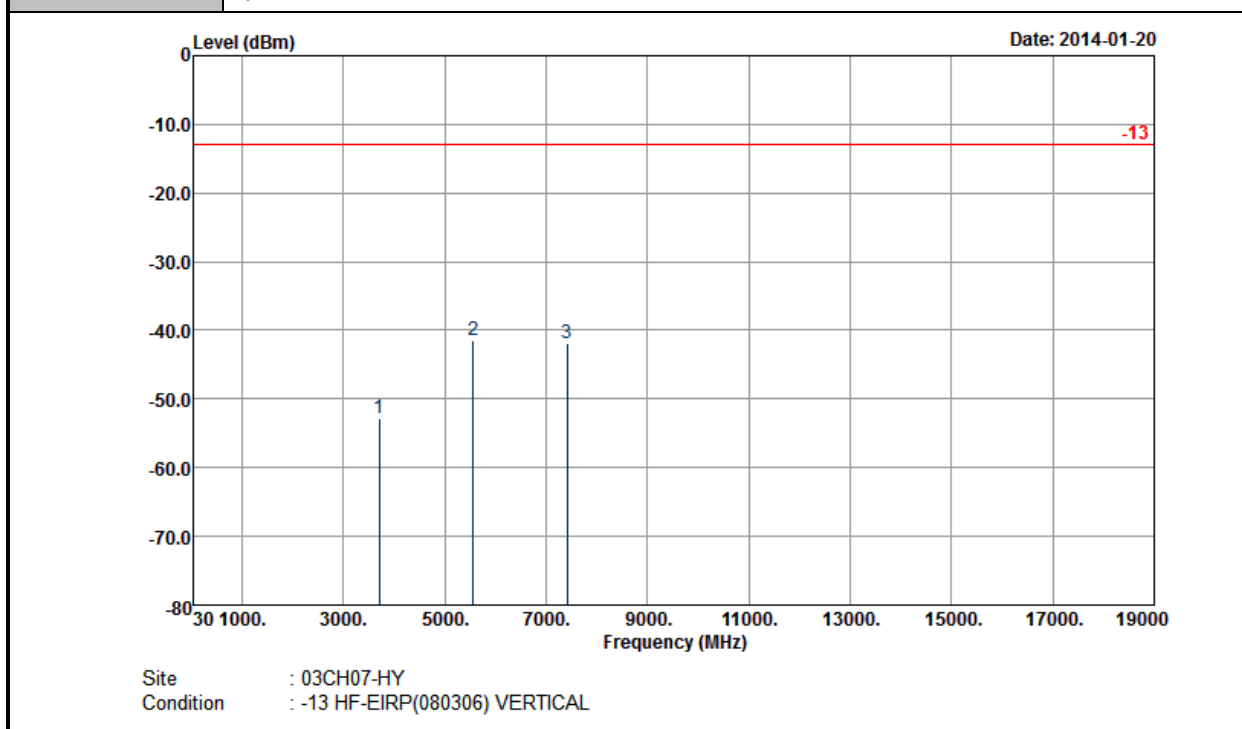
Band :	CDMA2000 BC1	Temperature :	21~23°C
Test Mode :	1xRTT_RC3+SO32 Link (QPSK) for Sample 2 with Battery 2	Relative Humidity :	47~49%
Channel	25	Polarization :	Horizontal
Test Engineer :	Ken Wu		
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) 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
3702	-53.65	-13	-40.65	-69.1	-59.8	2.59	8.74	H	Pass
5553	-39.44	-13	-26.44	-60.02	-47.1	3.04	10.70	H	Pass
7405	-41.86	-13	-28.86	-69.37	-50.6	3.28	12.02	H	Pass

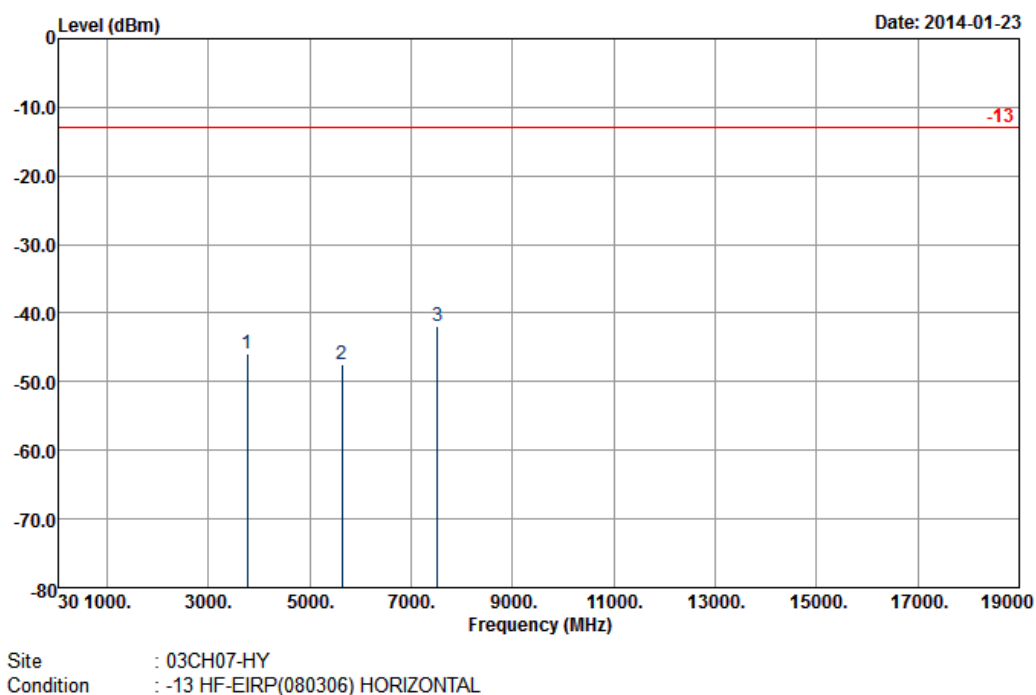
Band :	CDMA2000 BC1	Temperature :	21~23°C
Test Mode :	1xRTT_RC3+SO32 Link (QPSK) for Sample 2 with Battery 2	Relative Humidity :	47~49%
Channel	25	Polarization :	Vertical
Test Engineer :	Ken Wu		
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



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
3702	-52.75	-13	-39.75	-68.99	-58.9	2.59	8.74	V	Pass
5553	-41.54	-13	-28.54	-61.96	-49.2	3.04	10.70	V	Pass
7405	-41.96	-13	-28.96	-69.04	-50.7	3.28	12.02	V	Pass

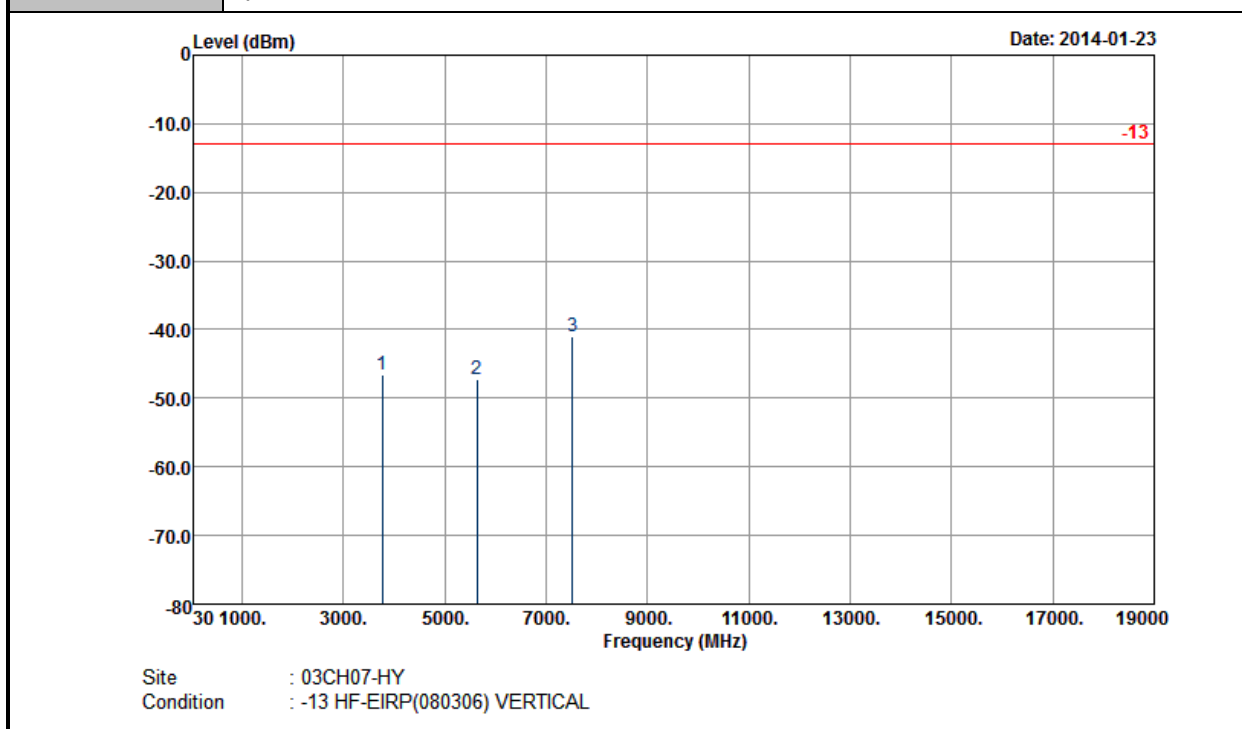
<Middle Channel>

Band :	CDMA2000 BC1	Temperature :	21~23°C
Test Mode :	1xRTT_RC3+SO32 Link (QPSK) for Sample 2 with Battery 2	Relative Humidity :	47~49%
Channel	600	Polarization :	Horizontal
Test Engineer :	Ken Wu		
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	-45.80	-13	-32.80	-61.18	-52.1	2.51	8.81	H	Pass
5636	-47.49	-13	-34.49	-68.27	-55.2	2.99	10.70	H	Pass
7520	-41.97	-13	-28.97	-69.27	-50.5	3.59	12.12	H	Pass

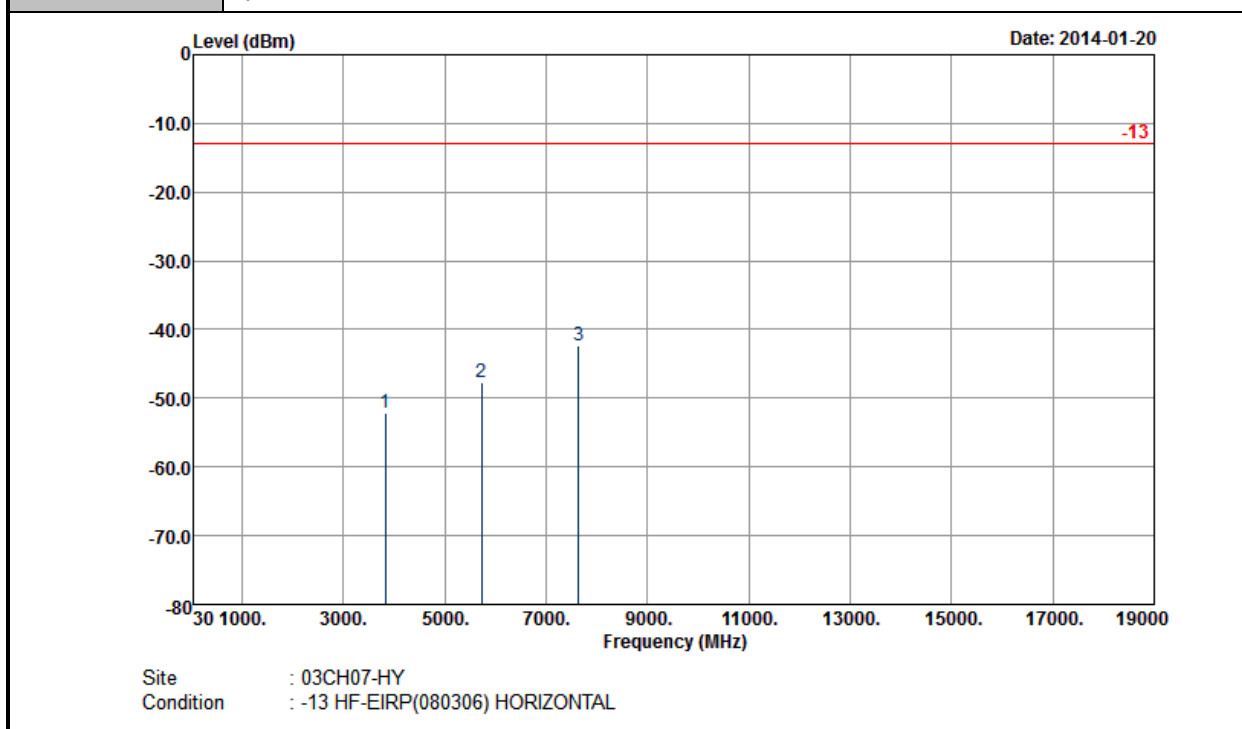
Band :	CDMA2000 BC1	Temperature :	21~23°C
Test Mode :	1xRTT_RC3+SO32 Link (QPSK) for Sample 2 with Battery 2	Relative Humidity :	47~49%
Channel	600	Polarization :	Vertical
Test Engineer :	Ken Wu		
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



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	-46.50	-13	-33.50	-62.83	-52.8	2.51	8.81	V	Pass
5636	-47.19	-13	-34.19	-68.45	-54.9	2.99	10.70	V	Pass
7520	-40.97	-13	-27.97	-68.29	-49.5	3.59	12.12	V	Pass

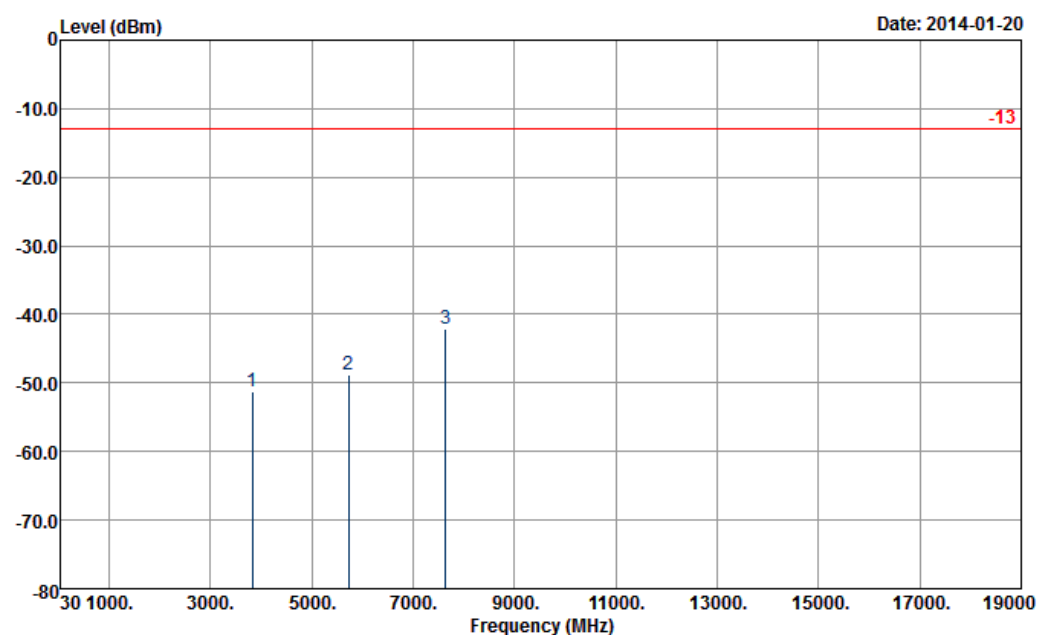
<High Channel>

Band :	CDMA2000 BC1	Temperature :	21~23°C
Test Mode :	1xRTT_RC3+SO32 Link (QPSK) for Sample 2 with Battery 2	Relative Humidity :	47~49%
Channel	1175	Polarization :	Horizontal
Test Engineer :	Ken Wu		
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
3817	-52.09	-13	-39.09	-68.33	-58.5	2.47	8.88	H	Pass
5726	-47.70	-13	-34.70	-69.13	-55.4	3	10.70	H	Pass
7635	-42.42	-13	-29.42	-69.3	-51.2	3.43	12.21	H	Pass

Band :	CDMA2000 BC1	Temperature :	21~23°C
Test Mode :	1xRTT_RC3+SO32 Link (QPSK) for Sample 2 with Battery 2	Relative Humidity :	47~49%
Channel	1175	Polarization :	Vertical
Test Engineer :	Ken Wu		
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) 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
3817	-51.19	-13	-38.19	-68.01	-57.6	2.47	8.88	V	Pass
5726	-48.80	-13	-35.80	-69.9	-56.5	3	10.70	V	Pass
7635	-42.12	-13	-29.12	-68.95	-50.9	3.43	12.21	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

The measuring equipment is listed in the section 4 of this test report.

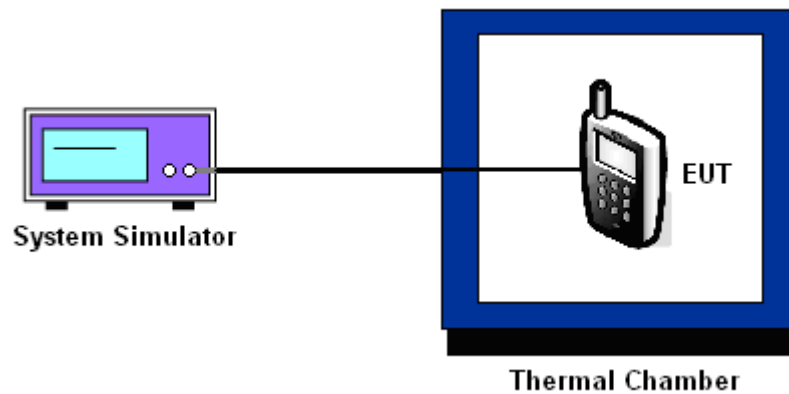
3.8.3 Test Procedures for Temperature Variation

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.

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_RC3+SO55	Channel :	384
Limit (ppm) :	2.5	Frequency :	836.52 MHz

Temperature (°C)	Freq. Dev. (Hz)	Deviation (ppm)	Result
50	-19	0.02	PASS
40	-18	0.02	
30	-15	0.02	
20	-13	0.02	
10	-12	0.01	
0	-17	0.02	
-10	-16	0.02	
-20	-20	0.02	
-30	-24	0.03	

Band :	CDMA2000 BC1 1xRTT_RC3+SO32	Channel :	600
Limit (ppm) :	2.5	Frequency :	1880.0 MHz

Temperature (°C)	Freq. Dev. (Hz)	Deviation (ppm)	Result
50	15	0.01	PASS
40	12	0.01	
30	11	0.01	
20	13	0.01	
10	12	0.01	
0	14	0.01	
-10	16	0.01	
-20	19	0.01	
-30	21	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	1xRTT RC3+SO55	4.2	-14	0.02	2.5	PASS
		3.7	-16	0.02		
		BEP	-21	0.03		
CDMA2000 BC1 CH600	1xRTT RC3+SO32	4.2	12	0.01	2.5	PASS
		3.7	14	0.01		
		BEP	17	0.01		

Note :

1. Normal Voltage = 3.7V.
2. Battery End Point (BEP) = 3.55 V.

4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
System Simulator	Rohde & Schwarz	CMU200	117995	N/A	Aug. 01, 2013	Jan. 17, 2014 ~ Jan. 21, 2014	Jul. 31, 2014	Conducted (TH02-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100055	9kHz~40GHz	Jun. 07, 2013	Jan. 17, 2014 ~ Jan. 21, 2014	Jun. 06, 2014	Conducted (TH02-HY)
Thermal Chamber	Ten Billion	TTH-D3SP	TBN-930701	N/A	Jul. 19, 2013	Jan. 17, 2014 ~ Jan. 21, 2014	Jul. 18, 2014	Conducted (TH02-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP30	101067	9KHz~30GHz	Nov. 20, 2013	Jan. 17, 2014 ~ Jan. 23, 2014	Nov. 19, 2014	Radiation (03CH07-HY)
Bilog Antenna	Schaffner	CBL6111C	2726	30MHz~1GHz	Oct. 10, 2013	Jan. 17, 2014 ~ Jan. 23, 2014	Oct. 09, 2014	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ESCO	3117	75962	1GHz~18GHz	Aug. 22, 2013	Jan. 17, 2014 ~ Jan. 23, 2014	Aug. 21, 2014	Radiation (03CH07-HY)
Preamplifier	COM-POWER	PA-103A	161241	30MHz~1GHz	Feb. 26, 2013	Jan. 17, 2014 ~ Jan. 23, 2014	Feb. 25, 2014	Radiation (03CH07-HY)
Preamplifier	Agilent	8449B	3008A02362	1GHz~26.5GHz	Nov. 29, 2013	Jan. 17, 2014 ~ Jan. 23, 2014	Nov. 28, 2014	Radiation (03CH07-HY)
Preamplifier	Agilent	8449B	3008A01917	1GHz~26.5GHz	Aug. 12, 2013	Jan. 17, 2014 ~ Jan. 23, 2014	Aug. 11, 2014	Radiation (03CH07-HY)
Turn Table	ChainTek	ChainTek 3000	N/A	0 ~ 360 degree	N/A	Jan. 17, 2014 ~ Jan. 23, 2014	N/A	Radiation (03CH07-HY)
Antenna Mast	ChainTek	M-400-0	114/8000604/	N/A	N/A	Jan. 17, 2014 ~ Jan. 23, 2014	N/A	Radiation (03CH07-HY)

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.50
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.10
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