

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 22 SUBPART H

OF

Type Name: RM-377

Brand Name: NOKIA

Model Name: RM-377

FCC ID: QMNRM-377

Report No.: EH/2008/50019

Issue Date: Jul. 17, 2008

FCC Rule Part: 2 , 22H

Prepared for: Nokia Inc.
12278 Scripps Summit Dr.
San Diego, CA 92131, USA

Prepared by: SGS Taiwan Ltd.
Electronics & Communication Laboratory
No. 134, Wu Kung Rd., Wuku Industrial
Zone, Taipei County, Taiwan.

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VERIFICATION OF COMPLIANCE

Applicant: Nokia Inc.
12278 Scripps Summit Dr., San Diego, CA 92131, USA

Manufacturer: Compal Communications(Nanjing)Co.Ltd
Nanjing Jiangning Export Processing Zone (South Area) No.68-2 Suyuan Street

Type Name: RM-377

Brand Name: NOKIA

Model Name: RM-377

Model Difference: N/A

FCC ID Number: QMNRM-377

Report Number: EH/2008/50019

Date of test: May 22, 2008 ~ May 29, 2008

Date of EUT Received: May 22, 2008

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in TIA/EIA-603-C-2004 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rule FCC PART 22 subpart H.

The test results of this report relate only to the tested sample identified in this report.

Test By:

Willis Chen

Date

Jul. 17, 2008

Willis Chen/Senior Supervisor

Prepared By:

Elisa Chen

Date

Jul. 17, 2008

Elisa Chen/Asst. Supervisor

Approved By

Vincent Su

Date

Jul. 17, 2008

Vincent Su/Manager

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Version

Version No.	Date	Description
00	May 29, 2008	Initial creation of document
01	Jun. 17, 2008	DC charger information removed
02	Jun. 20, 2008	AC conducted emission removed
03	Jul. 17, 2008	Revised the measurement procured version

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1. GENERAL INFORMATION

1.1 Product Description

General:

Type Name:	RM-377	
Brand Name:	NOKIA	
Model Name:	RM-377	
Model Difference:	N/A	
Simple Hands-Free (SHF):	Two provided; Model: HS-49 and HS-9	
Power Supply:	3.7 Vdc re-chargeable battery or 5Vdc by AC/DC power adapter	
	Battery Model:	BL-4C, Brand: NOKIA
	Adaptor Model:	AC-6 series, Brand: NOKIA

CDMA:

Cellular Phone Standards Frequency Range and Power:	CDMA2000 Band 800	824 MHz– 849MHz	24 dBm
Type of Emission:	1M25F9W		
IMEI:	MEID: 268435456102533764		
Software Version:	KL_2700B_GEN		
Hardware Version:	3000		

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1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for **FCC ID: QMNRM-377** filing to comply with Section Part 22 subpart H of the FCC CFR 47 Rules.

1.3 Test Methodology

Both conducted and radiated testing were performed according to the procedures document on FCC CFR 47 2.1046, 2.1049, 2.1051, 2.1053, 2.1055 and 2.1057.

1.4 Test Facility

The measurement facilities used to collect the 3m Radiated Emission and AC power line conducted data are located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No. 134, Wu Kung Rd., Wuku Industrial Zone, Taipei Country, Taiwan which are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2003. FCC Registration Number are: 990257 and 236194, Canada Registration Number: 4620A-1

The 10 m Open Area Test Sites located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No. 29, Pau-Tou-Tsuo Valley Chia-Pau Tsuen, Linkou Hsiang, Taipei county, which is constructed and calibrated to meet the CISPR 22/EN 55022 requirements. SGS Site No. 1(3 &10 meters) and FCC Registration Number: 94644.

1.5 Special Accessories

Not available for this EUT intended for grant.

1.6 Equipment Modifications

Not available for this EUT intended for grant.

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2. SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The Nokia Cellular CDMA Phone FCC ID:QMNRM-377 Was Tested With AC Adapter and Headsets. The EUT was stayed in normal operation mode(RC3/SO55) with CMU200.The EUT (Transmitter) was operated in the engineering mode to fix the Tx frequency which was for the purpose of the measurements.

2.3 Test Procedure

2.3.1 Conducted Measurement at Antenna Port:

According to measurement procured TIA/EIA 603C, the EUT is placed on a turn table which is 0.8 m above ground plane. A low loss of RF cable was used to connect the antenna port of EUT to measurement equipment.

2.3.2 Radiated Emissions (ERP/EIRP):

According to measurement procured TIA/EIA 603C. The EUT is placed on a turn table which is 1.0 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes according to the requirements.

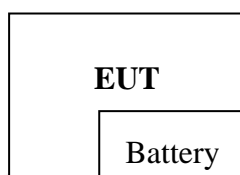
A standard antenna was used to replace the EUT and connect to the SG. Adjust the SG output level to reach the max emission level which were measured above.

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2.4 Configuration of Tested System

Fig. 1-1 Configuration For Radiated Emission



Remote Side

CMU200

Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
1.	Universal Radio Communication Tester	R&S	CMU200	102189	N/A	Un-shielded

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3. SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§2.1046(a) §22.913(a)	RF Power Output	Compliant
§2.1046(a) §22.913(a)	ERP/ EIRP measurement	Compliant
§2.1049(h)	99% Occupied Bandwidth	Compliant
§2.1051 §22.917(a)	Out of Band Emissions at Antenna Terminals and Band Edge	Compliant
§2.1053 §22.917(a)	Field Strength of Spurious Radiation	Compliant
§2.1055(a)(1)(b)	Frequency Stability vs. Temperature	Compliant
§2.1055(d)(1)(2)	Frequency Stability vs. Voltage	Compliant

4. DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.

Set EUT power control “all up bits” for all test mode through base station.

EUT staying in continuous transmitting mode. Channel Low, Mid and High for each type band with rated data rate were chosen for full testing.

The field strength of spurious radiation emission was measured as EUT stand-up position (E1 mode) and lie down position (E1, E2 mode) for CDMA2000 band 800 with power adaptor. The worst-case E1 mode for channels Low, Mid and High were reported.

The worse case was the CDMA with RC3/SO55 for Cellular after testing all application configurations declared by the applicant.

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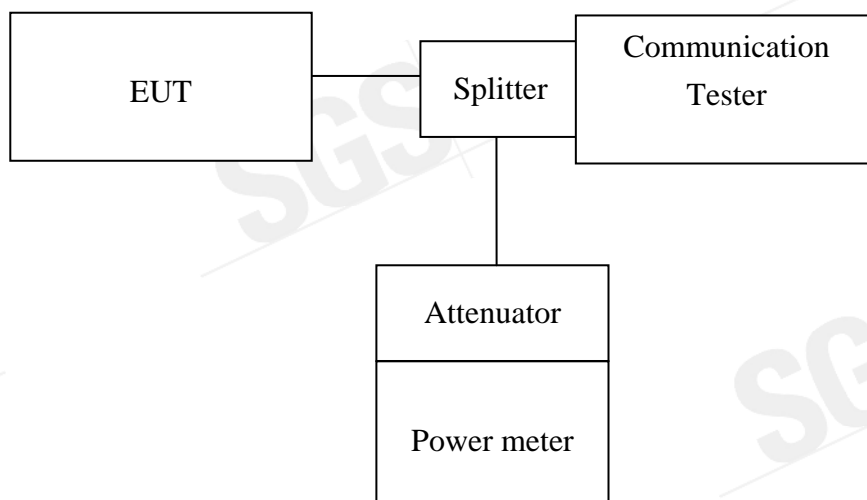
5. RF POWER OUTPUT MEASUREMENT

5.1 Standard Applicable

According to FCC §2.1046.

FCC 22.913(a) Mobile station are limited to 7W.

5.2 Test Set-up:



Note: Measurement setup for testing on Antenna connector

5.3 Measurement Procedure

The transmitter output was connected to a calibrated attenuator, the other end of which was connected to a power meter. Transmitter output was read off the power meter in dBm. The power output at the transmitter antenna port was determined by adding the value of the attenuator to the power meter reading.

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5.4 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	03/29/2008	03/28/2009
Spectrum Analyzer	Agilent	E7405A	US41160416	06/28/2007	06/29/2008
Spectrum Analyzer	R&S	FSP 40	100034	11/09/2007	11/10/2008
Communication Test	R&S	SMU200	N/A	N/A	N/A
Power Sensor	Anritsu	MA2490A	31431	06/28/2007	06/29/2008
Power Meter	Anritsu	ML2487A	6K00002070	06/28/2007	06/29/2008
Temperature Chamber	TERCHY	MHG-120LF	911009	10/14/2007	10/13/2008
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A
Attenuator	Mini-Circuit	BW-S10W5	N/A	09/23/2007	09/22/2008
Attenuator	Mini-Circuit	BW-S6W5	N/A	09/23/2007	09/22/2008
Splitter	Agilent	11636B	51728	09/23/2007	09/22/2008
DC Power Supply	TOPWARD	3303A	N/A	N/A	N/A

5.5 Measurement Result

EUT Mode	Frequency (MHz)	CH	CMU200 Reading (dBm)	Power (dBm)
CDMA2000 Band 800 (RC3/SO55)	824.70	1013	23.99	23.99
	836.52	384	23.94	23.94
	848.31	777	23.88	23.88

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6. ERP MEASUREMENT

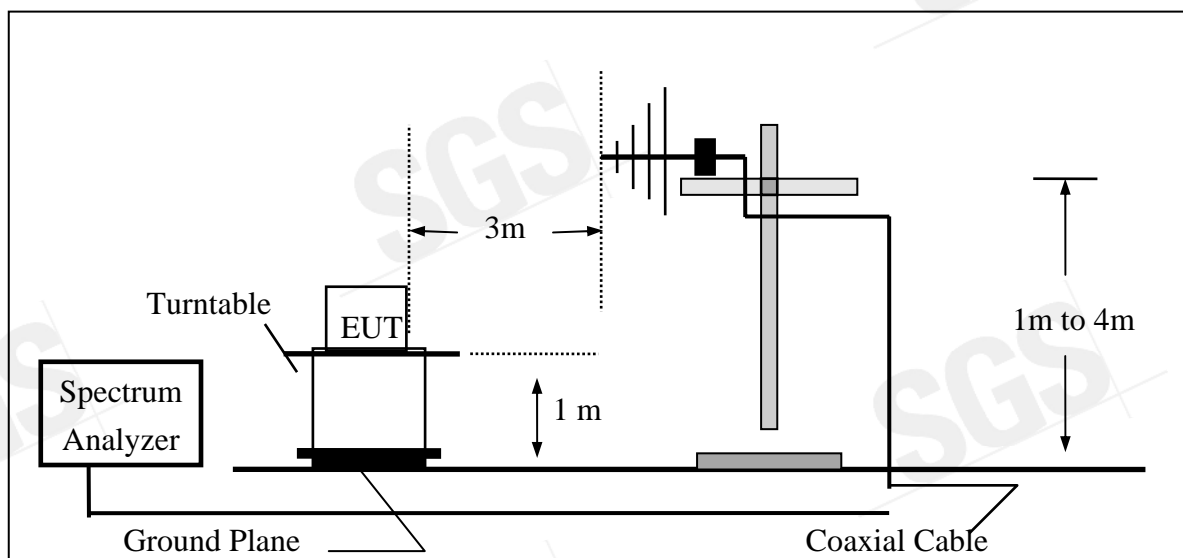
6.1 Standard Applicable

According to FCC §2.1046

FCC 22.913(a) Mobile station are limited to 7W ERP.

6.2 Test SET-UP (Block Diagram of Configuration)

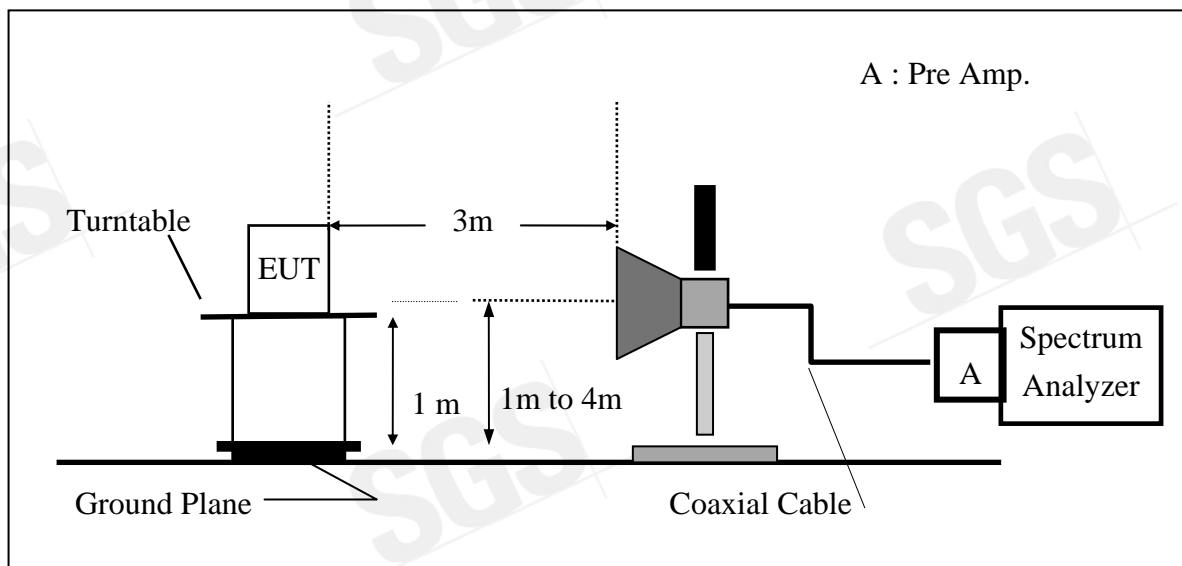
(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



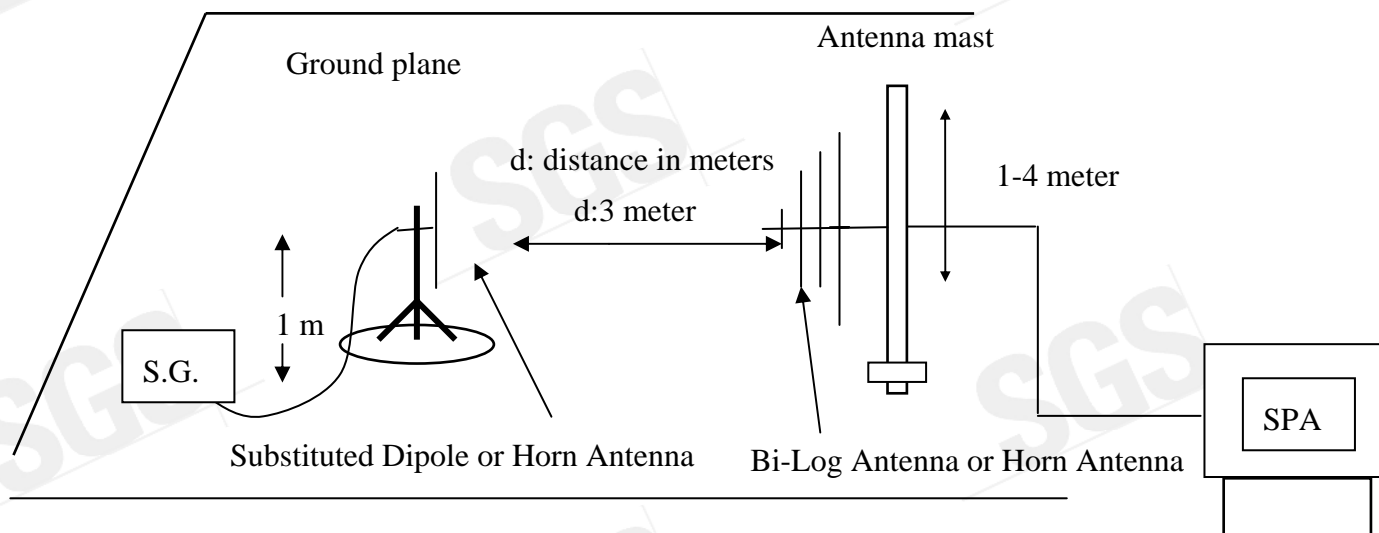
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(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



(C) Substituted Method Test Set-UP



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6.3 Measurement Procedure

The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer.

During the measurement, the EUT was communication with the station. The highest emission was recorded with the rotation of the turntable and the lowering of the test antenna from 4m to 1m. The reading was recorded and the field strength (E in dBuV/m) was calculated.

ERP in frequency band 824.70 – 848.31 MHz were measured using a substitution method. The EUT was replaced by dipole antenna connected, the S.G. output was recorded and ERP was calculated as follows:

$$\text{ERP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBd)} - \text{Cable Loss (dB)}$$

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6.4 Measurement Equipment Used:

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	03/29/2008	03/28/2009
Spectrum Analyzer	Agilent	7405A	US41160416	06/28/2007	06/29/2008
Spectrum Analyzer	R&S	FSP 40	100034	11/09/2007	11/10/2008
Communication Test	R&S	SMU200	N/A	N/A	N/A
Bi-log Antenna	SCHWAZBECK	VULB9163	152	06/03/2008	06/02/2009
Horn antenna	SCHWAZBECK	BBHA 9120D	309/320	08/16/2007	08/15/2008
Pre-Amplifier	HP	8447D	2944A09469	07/19/2007	07/18/2008
Pre-Amplifier	HP	8494B	3008A00578	02/26/2008	02/25/2009
Signal Generator	R&S	SMR40	100210	02/09/2008	02/10/2009
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	HD	MA240-N	240/657	N.C.R	N.C.R
Controller	HD	HD100	N/A	N.C.R	N.C.R
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-10M	10m	10/09/2007	10/08/2008
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	10/09/2007	10/08/2008
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-0.5M	0.5m	10/09/2007	10/08/2008
Site NSA	SGS	966 chamber	N/A	11/17/2007	11/16/2008
Attenuator	Mini-Circuit	BW-S10W5	N/A	09/23/2007	09/22/2008
Dipole Antenna	SCHWAZBECK	VHAP	908/909	06/10/2008	06/11/2009
Dipole Antenna	SCHWAZBECK	UHAP	891/892	06/10/2008	06/11/2009
Horn antenna	SCHWAZBECK	BBHA 9120D	N/A	08/16/2007	08/15/2008

6.5 Measurement Result

EUT Mode	Frequency (MHz)	CH	EUT Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)
CDMA2000 Band 800	824.70	1013	E2	99.40	25.81	1.74	3.27	24.28	38.45
	836.52	384	E1	101.37	26.98	1.73	3.31	25.40	38.45
	848.31	777	E1	102.31	29.22	1.73	3.40	27.55	38.45

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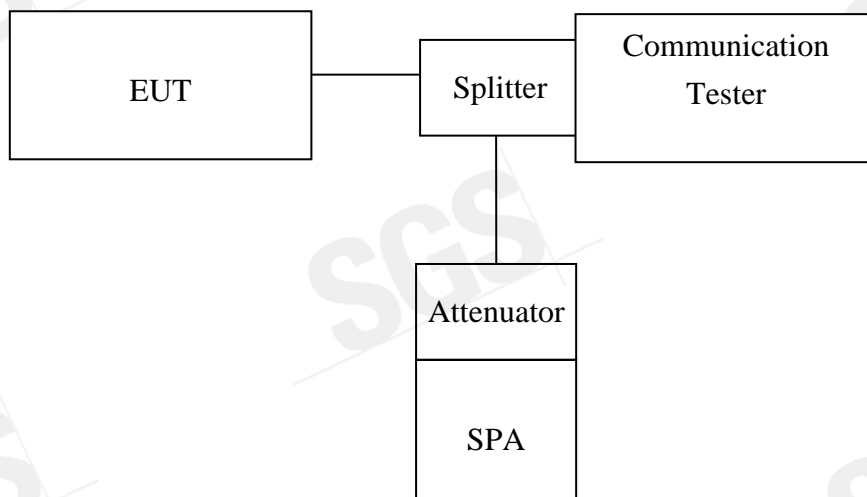
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7. 99% OCCUPIED BANDWIDTH MEASUREMENT

7.1 Standard Applicable

According to §FCC 2.1049.

7.2 Test Set-up:



Note: Measurement setup for testing on Antenna connector

7.3 Measurement Procedure

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW (10/30KHz) was set to about 1% of emission BW, VBW= 3 times RBW(30/100KHz), -26dBc display line was placed on the screen (or 99% bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace.

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7.4 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	03/29/2008	03/28/2009
Spectrum Analyzer	Agilent	7405A	US41160416	06/28/2007	06/29/2008
Power Sensor	Anritsu	MA2490A	31431	06/28/2007	06/29/2008
Power Meter	Anritsu	ML2487A	6K00002070	06/28/2007	06/29/2008
Temperature Chamber	TERCHY	MHG-120LF	911009	11/11/2007	11/12/2008
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A
Attenuator	Mini-Circuit	BW-S10W5	N/A	10/07/2007	10/06/2008
Attenuator	Mini-Circuit	BW-S6W5	N/A	10/07/2007	10/06/2008
Splitter	Mini-Circuit	ZFSC-2-10G	N/A	10/07/2007	10/06/2008
Signal Generator	R&S	SMR40	100210	11/09/2007	11/10/2008
DC Power Supply	Agilent	6038A	2929A-07548	01/06/2008	01/05/2009

7.5 Measurement Result:.

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
CDMA2000 Band 800	824.70	1013	1.2735
	836.52	384	1.2702
	848.31	777	1.2706

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Figure 7-1: CDMA2000 band 800 Channel Low

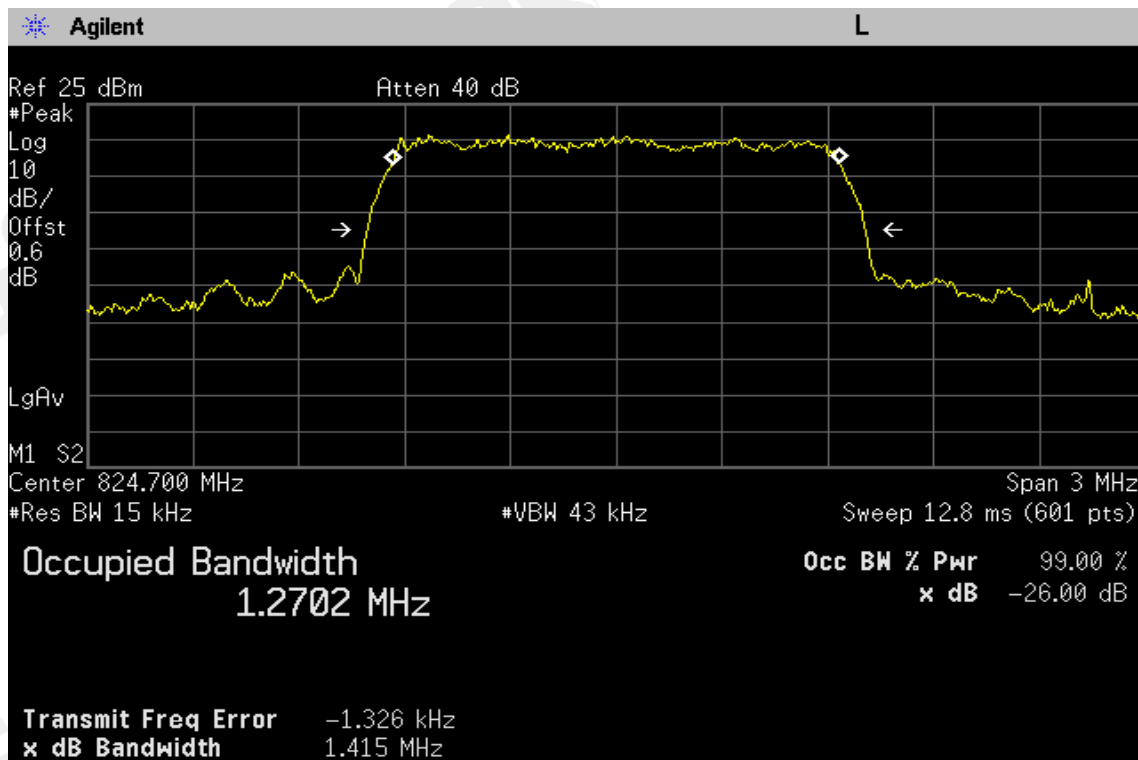
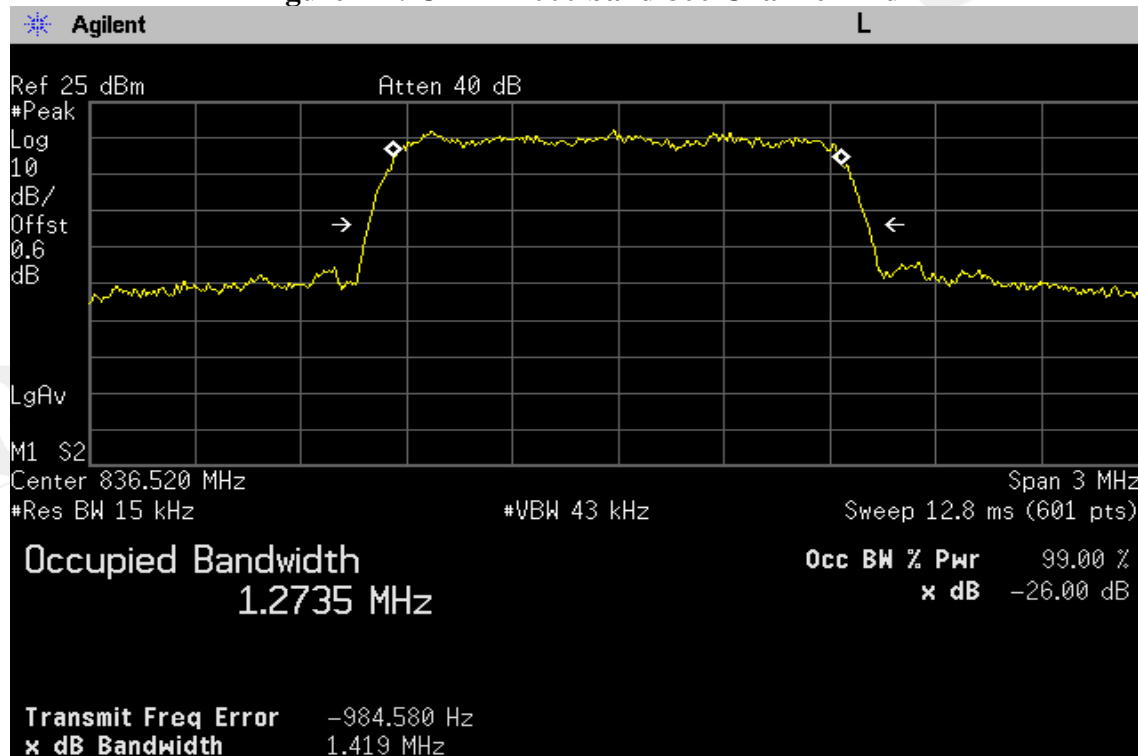


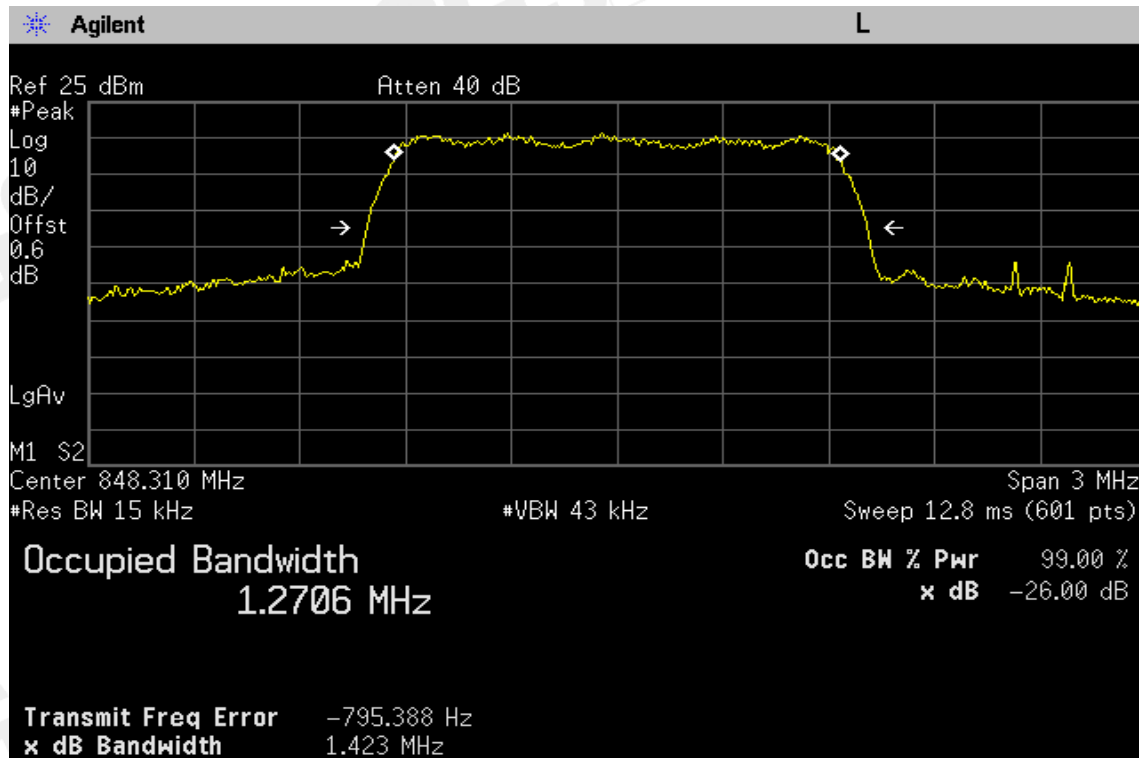
Figure 7-2: CDMA2000 band 800 Channel Mid



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Figure 7-3: CDMA2000 band 800 Channel High



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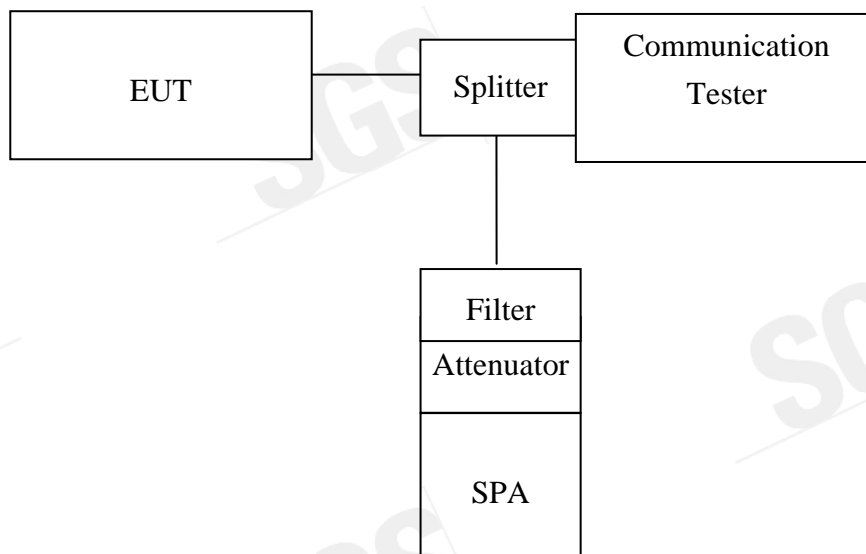
8. OUT OF BAND EMISSION AT ANTENNA TERMINALS

8.1 Standard Applicable

According to FCC §2.1051.

FCC §22.917(a), the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specified in the instruction manual and/or alignment procedure, shall not be less than $43 + 10 \log$ (mean output power in watts) dBc below the mean power output outside a license's frequency block (-13dBm)

8.2 Test SET-UP



Note: Measurement setup for testing on Antenna connector

8.3 Measurement Procedure

The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.

For the out of band: Set the RBW, VBW = 1MHz, Start=30MHz, Stop= 10th harmonic.
Limit = -13dBm

Band Edge Requirements: In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the out of band Emissions. Limit, -13dBm.

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8.4 Measurement Equipment Used:

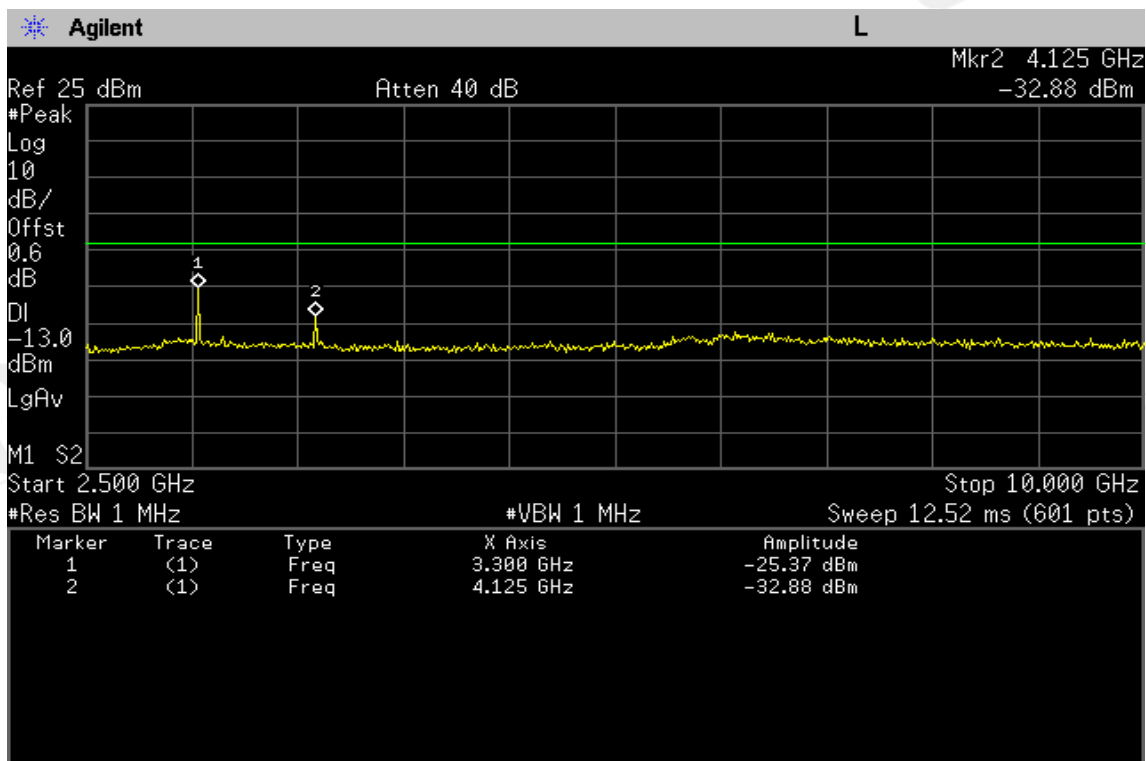
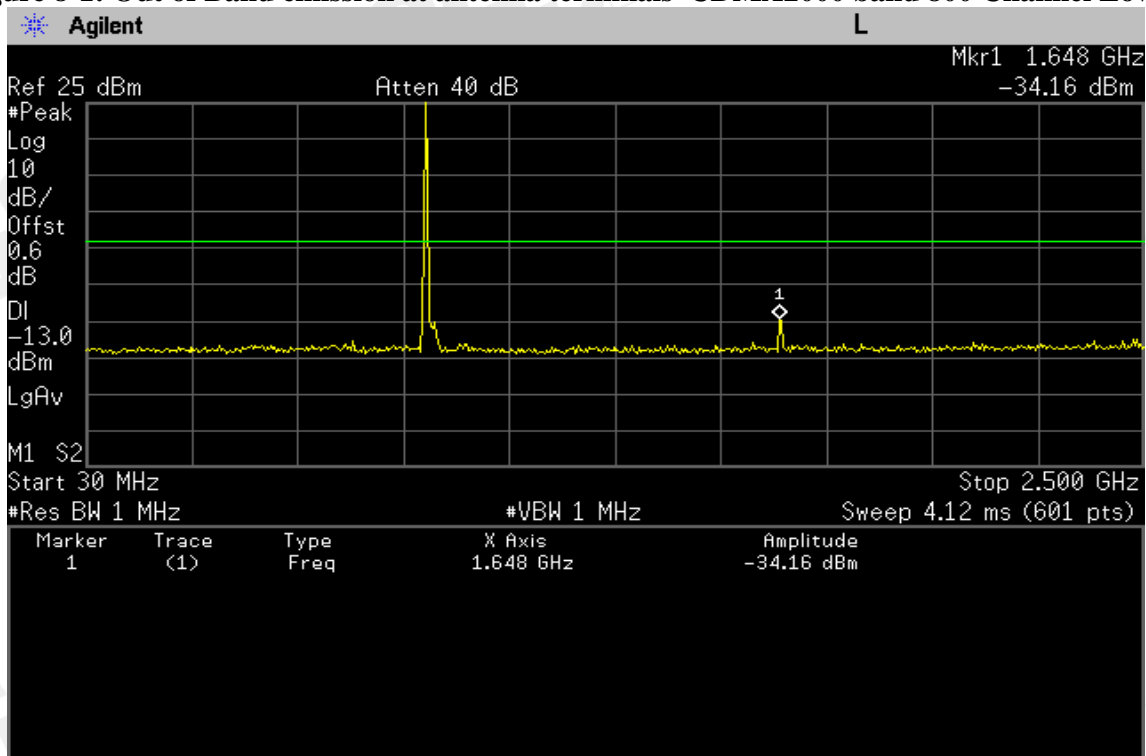
Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	03/29/2008	03/28/2009
Spectrum Analyzer	Agilent	7405A	US41160416	06/28/2007	06/29/2008
Power Sensor	Anritsu	MA2490A	31431	06/28/2007	06/29/2008
Power Meter	Anritsu	ML2487A	6K00002070	06/28/2007	06/29/2008
Temperature Chamber	TERCHY	MHG-120LF	911009	11/11/2007	11/12/2008
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A
Attenuator	Mini-Circuit	BW-S10W5	N/A	10/07/2007	10/06/2008
Attenuator	Mini-Circuit	BW-S6W5	N/A	10/07/2007	10/06/2008
Splitter	Mini-Circuit	ZFSC-2-10G	N/A	10/07/2007	10/06/2008
Signal Generator	R&S	SMR40	100210	11/09/2007	11/10/2008
DC Power Supply	Agilent	6038A	2929A-07548	01/06/2008	01/05/2009
Band reject filter	Wicro-tronics	BRM13462	001	06/28/2007	06/29/2008

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8.5 Measurement Result

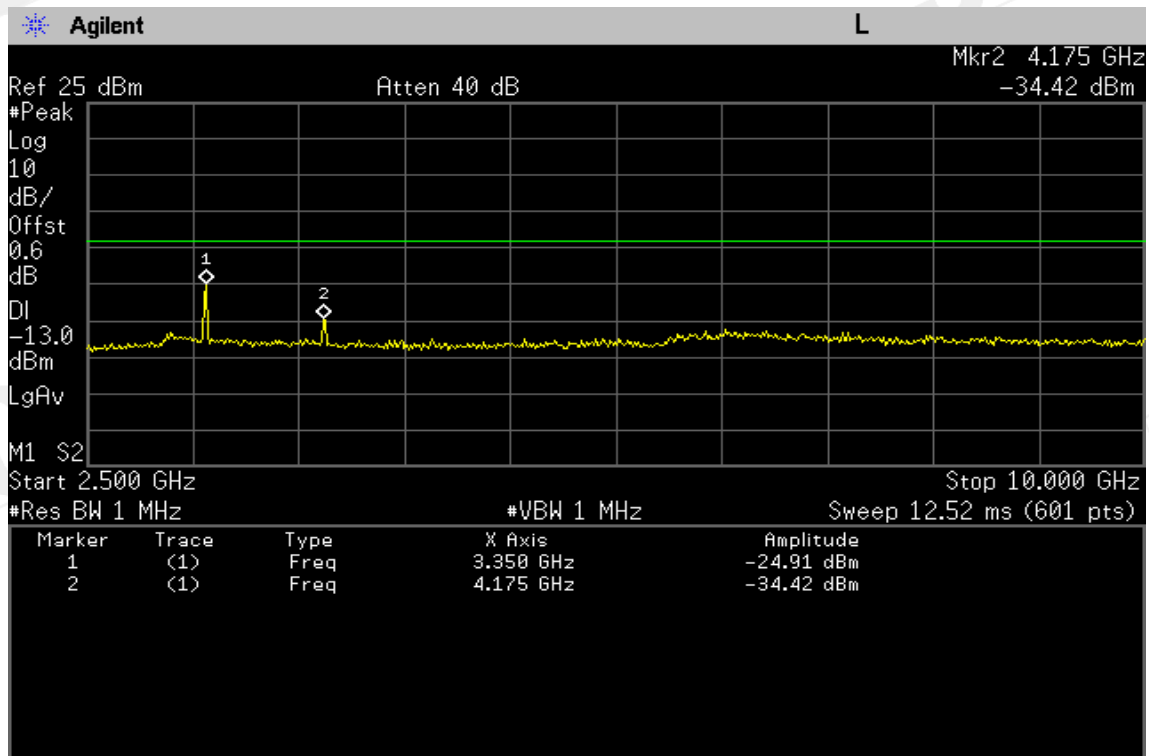
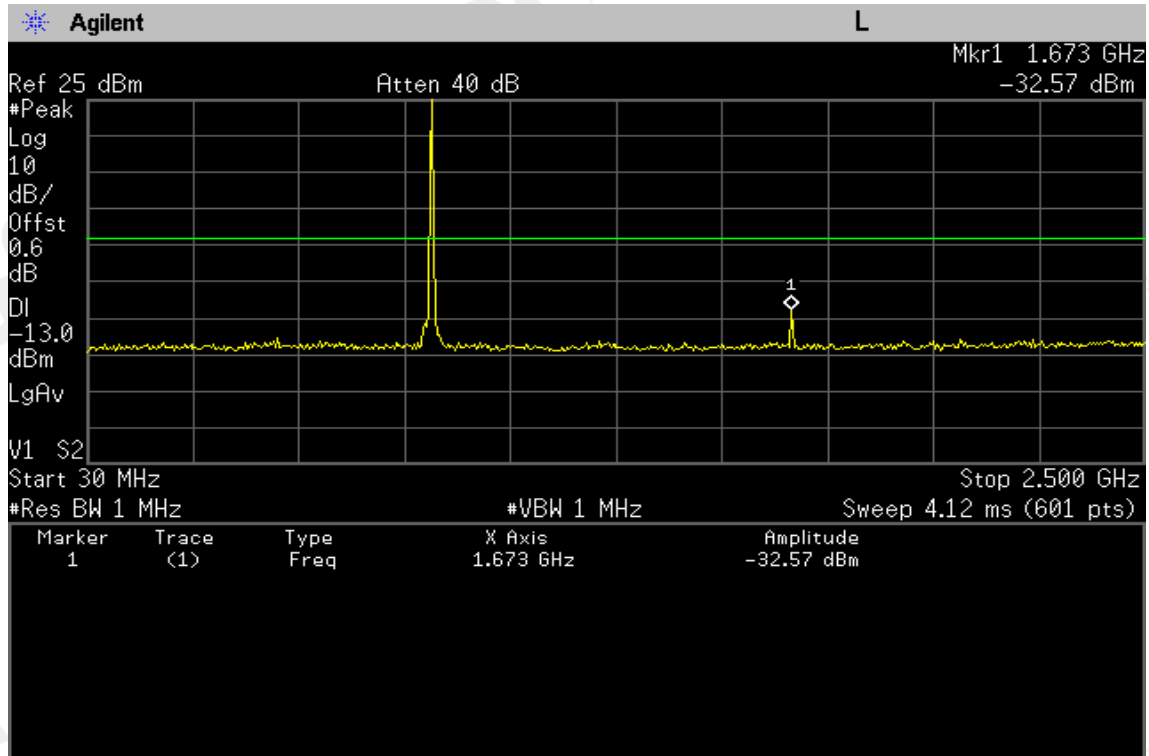
Figure 8-1: Out of Band emission at antenna terminals–CDMA2000 band 800 Channel Lowest



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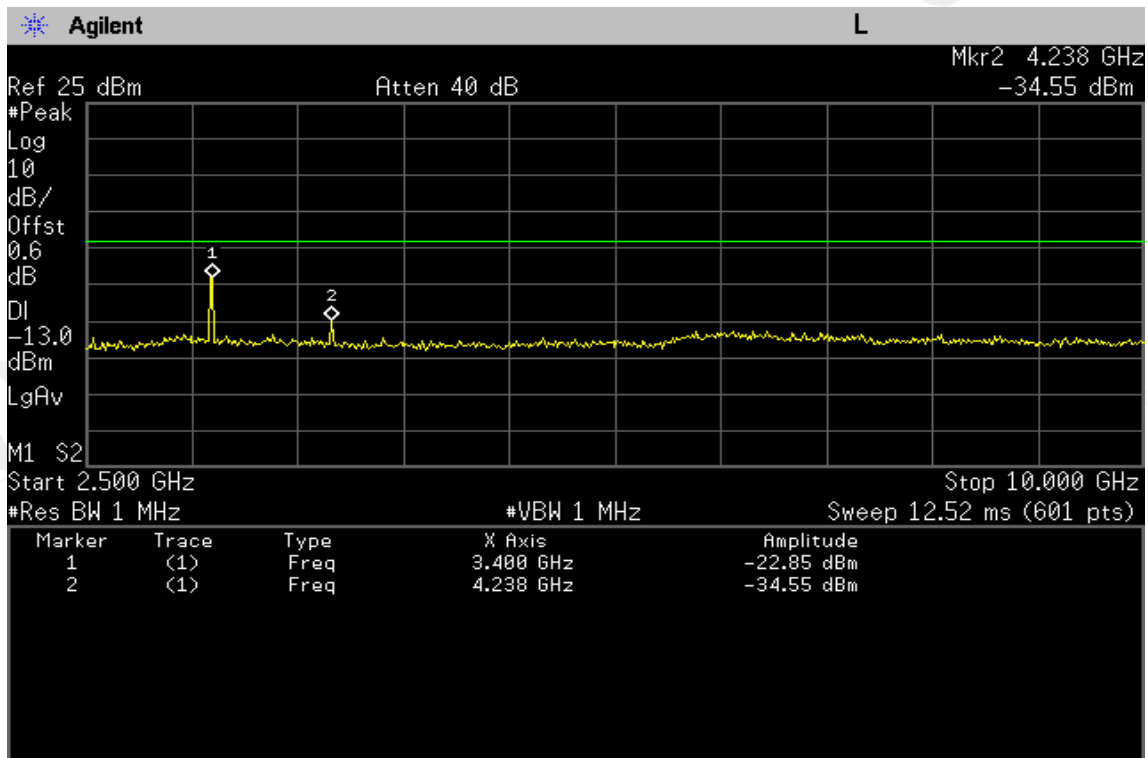
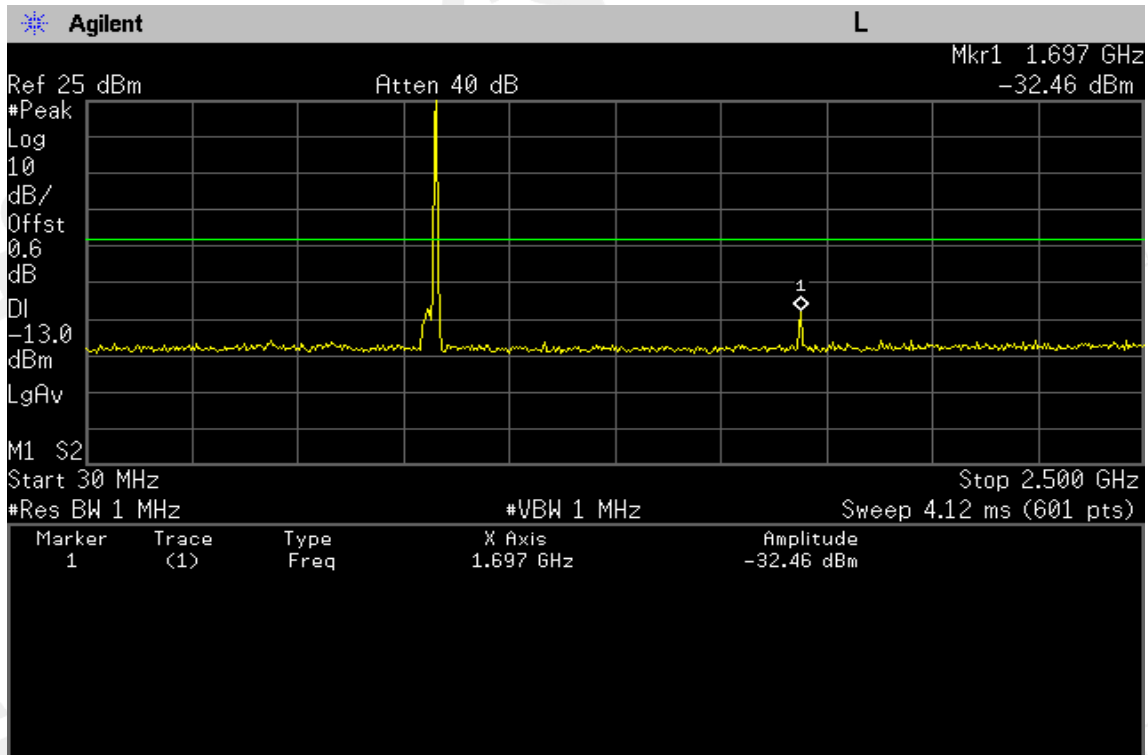
Figure 8-2: Out of Band emission at antenna terminals –CDMA2000 band 800 Channel Mid



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Figure 8-3: Out of Band emission at antenna terminals–CDMA2000 band 800 Channel Highest



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Figure 8-4: Band edge emission at antenna terminals –CDMA2000 band 800 Channel Lowest

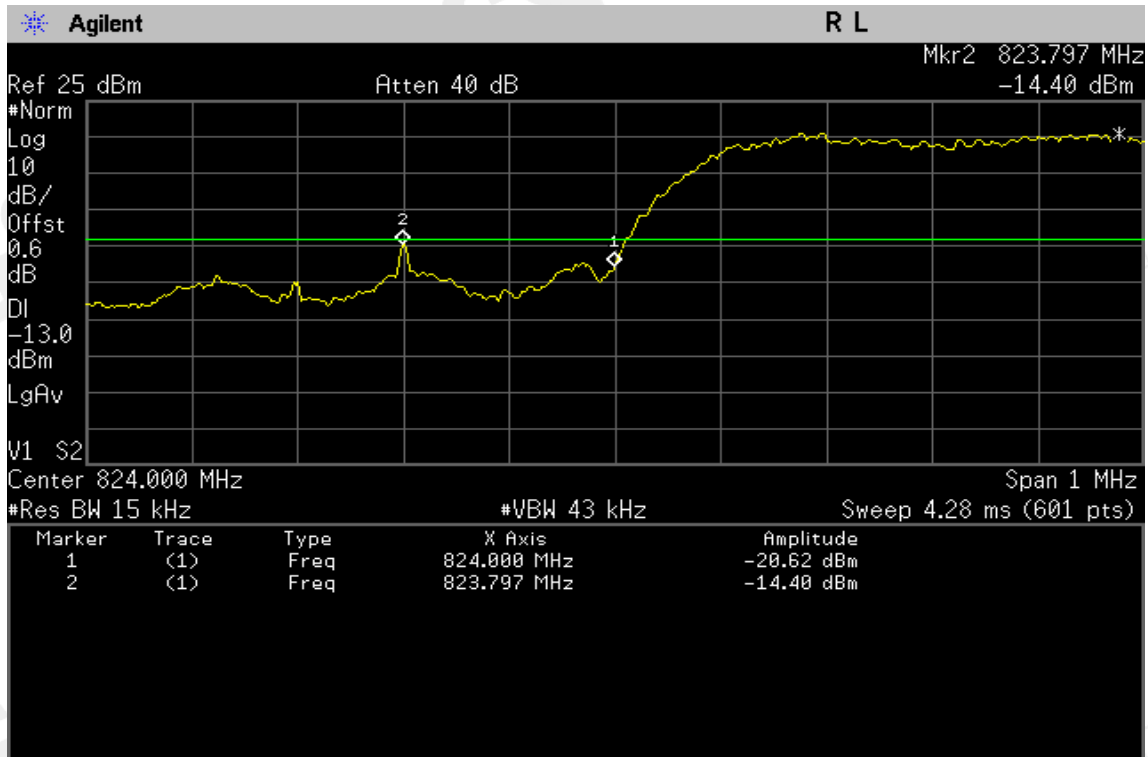
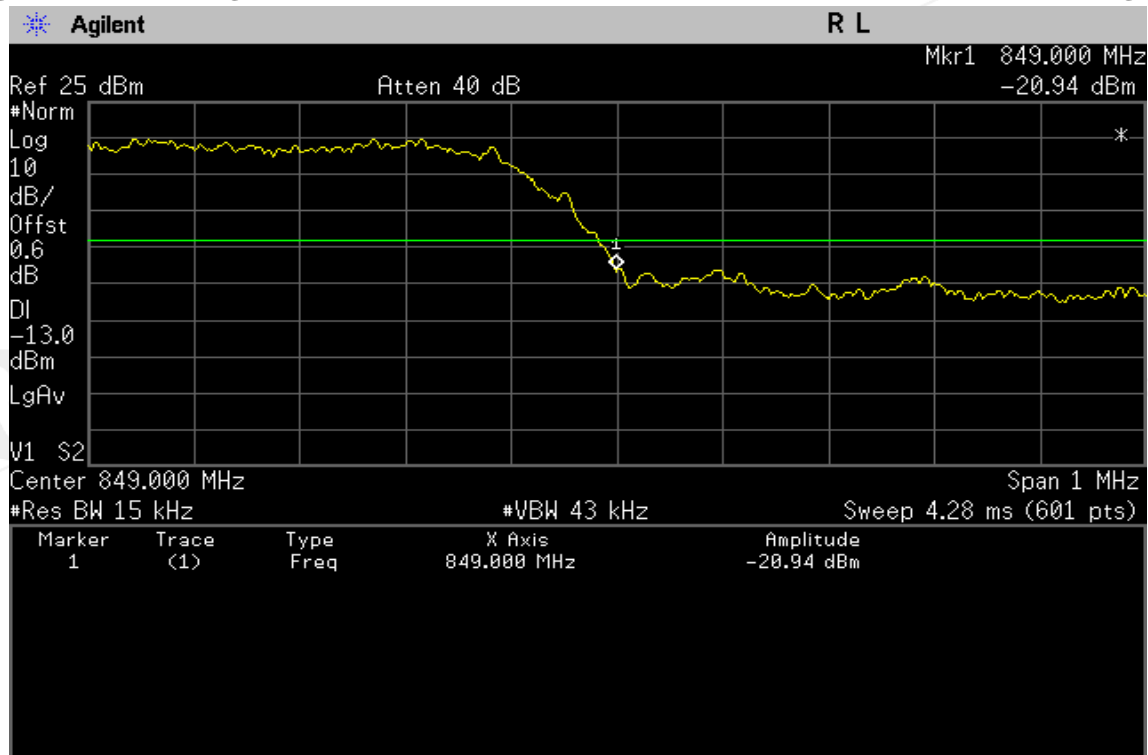


Figure 8-5: Band edge emission at antenna terminals –CDMA2000 band 800 Channel Highest



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9. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

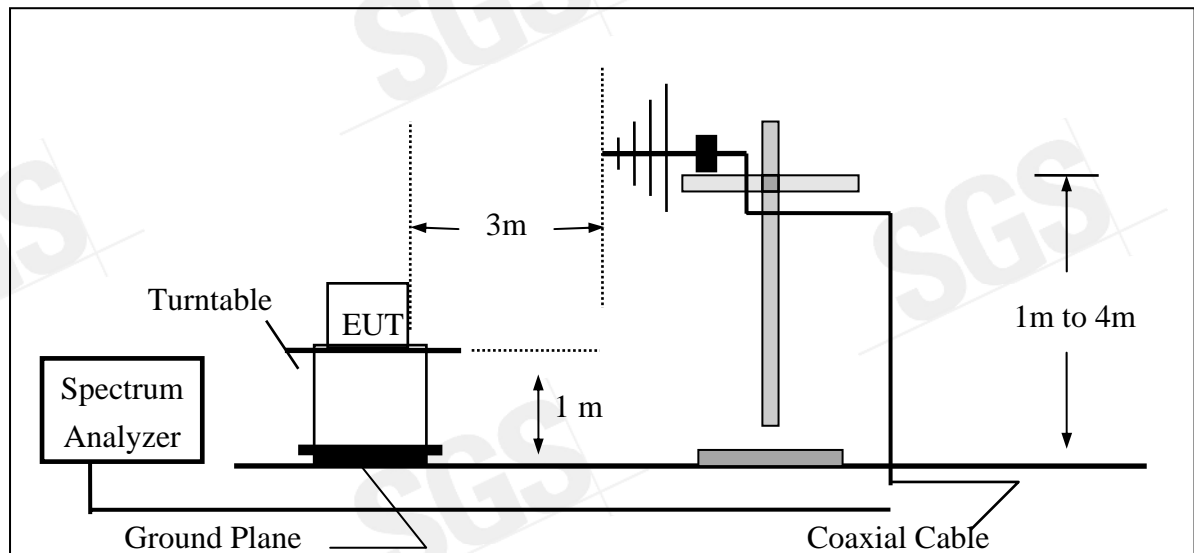
9.1 Standard Applicable

According to FCC §2.1053,

FCC §22.917(a), the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specified in the instruction manual and/or alignment procedure, shall not be less than $43 + 10 \log$ (mean output power in watts) dBc below the mean power output outside a license's frequency block (-13dBm)

9.2 EUT Setup (Block Diagram of Configuration)

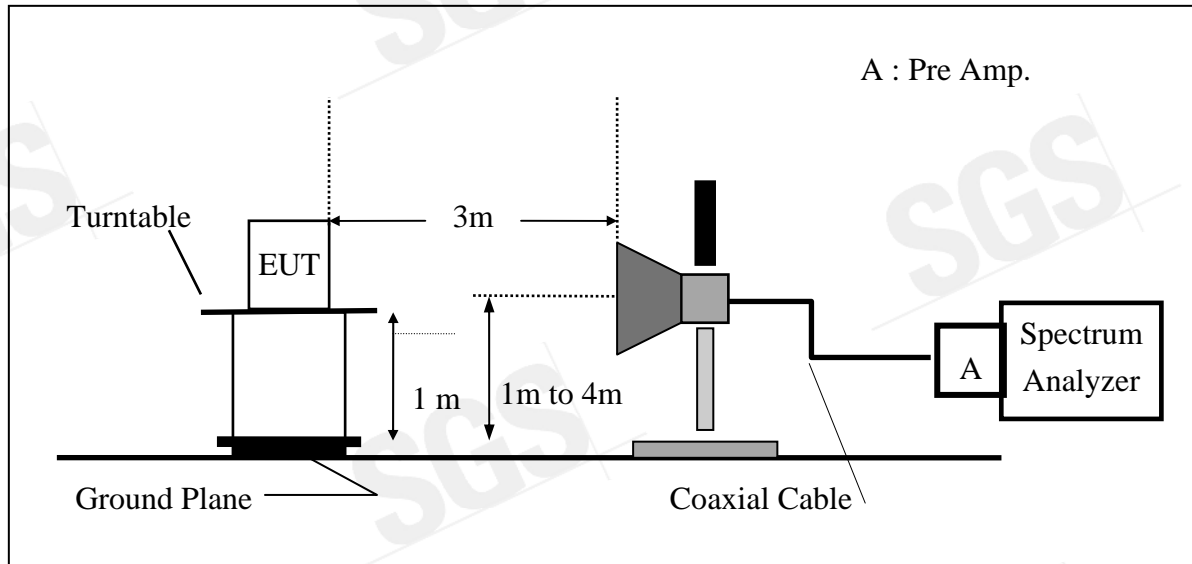
(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



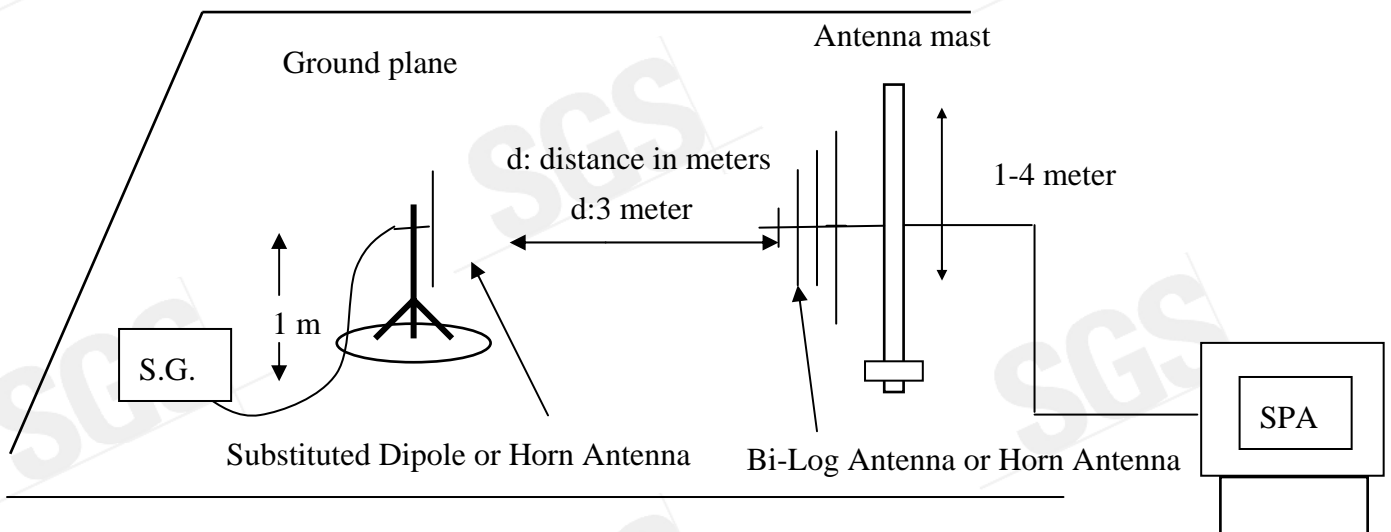
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(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



(C) Substituted Method Test Set-UP



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9.3 Measurement Procedure

The EUT was placed on a non-conductive, The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequency (low, middle and high channels). Once spurious emission were identified, the power of the emission was determined using the substitution method.

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

$$\text{EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain(dBi)} - \text{Cable Loss (dB)}$$

$$\text{ERP} = \text{S.G. output (dBm)} + \text{Antenna Gain(dBd)} - \text{Cable Loss (dB)}$$

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9.4 Measurement Equipment Used:

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	03/29/2008	03/28/2009
Spectrum Analyzer	Agilent	E7405A	US41160416	08/27/2007	08/26/2008
Bi-log Antenna	SCHWAZBECK	VULB9163	152	06/03/2008	06/02/2009
Horn antenna	SCHWAZBECK	BBHA 9120D	309/320	08/16/2007	08/15/2008
Pre-Amplifier	HP	8447D	2944A09469	07/19/2007	07/18/2008
Pre-Amplifier	HP	8494B	3008A00578	02/26/2008	02/25/2009
Signal Generator	R&S	SMR40	100210	02/09/2008	02/10/2009
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	HD	MA240-N	240/657	N.C.R	N.C.R
Controller	HD	HD100	N/A	N.C.R	N.C.R
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-10M	10m	10/09/2007	10/08/2008
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	10/09/2007	10/08/2008
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-0.5M	0.5m	10/09/2007	10/08/2008
Site NSA	SGS	966 chamber	N/A	11/17/2007	11/16/2008
Site NSA	SGS	10m Open-Site	N/A	10/02/2007	10/01/2008
Attenuator	Mini-Circuit	BW-S10W5	N/A	10/07/2007	10/06/2008
Temperature Chamber	TERCHY	MHG-120LF	911009	10/14/2007	10/13/2008
Dipole Antenna	SCHWAZBECK	VHAP	908/909	06/10/2008	06/11/2009
Dipole Antenna	SCHWAZBECK	UHAP	891/892	06/10/2008	06/11/2009
Horn antenna	SCHWAZBECK	BBHA 9120D	N/A	08/16/2007	08/15/2008

9.5 Measurement Result

Refer to attach tabular data sheets.

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Radiated Spurious Emission Measurement Result: CDMA2000 band 800 Mode

Operation Mode : TX CH Low E1 Mode

Test Date: May 29, 2008

Fundamental Frequency : 824.70 MHz

Test By: Willis

Temperature : 25°C

Pol: Ver

Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
58.13	58.06	V	-64.70	-0.49	0.67	-65.86	-13.00	-52.86
521.79	47.21	V	-62.06	-7.74	1.96	-71.76	-13.00	-58.76
681.84	46.24	V	-61.85	-7.84	2.31	-72.00	-13.00	-59.00
824.00	96.54	V	-7.19	-7.87	2.48	-17.54	-13.00	-4.54
1649.40	65.68	V	-49.95	9.29	3.56	-44.22	-13.00	-31.22
2474.10	58.07	V	-55.50	10.08	4.42	-49.84	-13.00	-36.84
3298.80	71.10	V	-42.11	12.17	5.15	-35.09	-13.00	-22.09
4123.50	58.41	V	-52.90	12.61	5.78	-46.06	-13.00	-33.06
4948.20	---	V		12.65	6.40		-13.00	
5772.90	---	V		13.56	7.12		-13.00	
6597.60	---	V		12.04	7.73		-13.00	
7422.30	---	V		11.49	8.21		-13.00	
8247.00	---	V		11.48	8.85		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz - 1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark :

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP\ (dBm) = SG\ Setting(dBm) + Antenna\ Gain\ (dB/dBi) - Cable\ loss\ (dB)$

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Radiated Spurious Emission Measurement Result: CDMA2000 band 800 Mode

Operation Mode : TX CH Low E1 Mode

Test Date: May 29, 2008

Fundamental Frequency : 824.70 MHz

Test By: Willis

Temperature : 25°C

Pol: Hor

Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
33.88	47.89	H	-69.21	-5.52	0.57	-75.30	-13.00	-62.30
155.13	44.70	H	-72.03	-7.80	1.05	-80.89	-13.00	-67.89
741.98	45.15	H	-60.61	-7.87	2.31	-70.79	-13.00	-57.79
824.00	95.99	H	-7.48	-7.87	2.48	-17.83	-13.00	-4.83
1649.40	68.23	H	-47.24	9.29	3.56	-41.51	-13.00	-28.51
2474.10	---	H		10.08	4.42		-13.00	
3298.80	71.24	H	-41.95	12.17	5.15	-34.93	-13.00	-21.93
4123.50	65.78	H	-45.46	12.61	5.78	-38.62	-13.00	-25.62
4948.20	---	H		12.65	6.40		-13.00	
5772.90	---	H		13.56	7.12		-13.00	
6597.60	---	H		12.04	7.73		-13.00	
7422.30	---	H		11.49	8.21		-13.00	
8247.00	---	H		11.48	8.85		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark :

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: CDMA2000 band 800 Mode

Operation Mode : TX CH Mid E1 Mode

Test Date: May 29, 2008

Fundamental Frequency : 836.52 MHz

Test By: Willis

Temperature : 25°C

Pol: Ver

Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out- put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
58.13	56.82	V	-65.94	-0.49	0.67	-67.10	-13.00	-54.10
85.29	54.77	V	-63.85	-7.75	0.44	-72.04	-13.00	-59.04
741.98	45.20	V	-59.18	-7.87	2.31	-69.36	-13.00	-56.36
1228.00	58.14	V	-57.53	7.28	1.55	-51.81	-13.00	-38.81
1673.04	62.46	V	-53.19	9.36	3.59	-47.42	-13.00	-34.42
2509.56	---	V		10.09	4.46		-13.00	
3346.08	66.34	V	-46.83	12.27	5.19	-39.74	-13.00	-26.74
4182.60	56.12	V	-54.98	12.62	5.82	-48.18	-13.00	-35.18
5019.12	55.63	V	-52.77	12.67	6.45	-46.56	-13.00	-33.56
5855.64	---	V		13.68	7.21		-13.00	
6692.16	---	V		11.95	7.80		-13.00	
7528.68	---	V		11.45	8.26		-13.00	
8365.20	---	V		11.59	8.93		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark :

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: CDMA2000 band 800 Mode

Operation Mode : TX CH Mid E1 Mode

Test Date: May 29, 2008

Fundamental Frequency : 836.52 MHz

Test By: Willis

Temperature : 25°C

Pol: Hor

Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out- put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
33.88	48.65	H	-68.45	-5.52	0.57	-74.54	-13.00	-61.54
155.13	45.68	H	-71.05	-7.80	1.05	-79.91	-13.00	-66.91
749.74	44.73	H	-60.70	-7.87	2.30	-70.87	-13.00	-57.87
1276.00	58.83	H	-56.67	7.55	1.88	-51.00	-13.00	-38.00
1673.04	62.02	H	-53.46	9.36	3.59	-47.69	-13.00	-34.69
2509.56	---	H		10.09	4.46		-13.00	
3346.08	67.02	H	-46.16	12.27	5.19	-39.07	-13.00	-26.07
4182.60	62.18	H	-48.85	12.62	5.82	-42.05	-13.00	-29.05
5019.12	---	H		12.67	6.45		-13.00	
5855.64	---	H		13.68	7.21		-13.00	
6692.16	---	H		11.95	7.80		-13.00	
7528.68	---	H		11.45	8.26		-13.00	
8365.20	---	H		11.59	8.93		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark :

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP \text{ (dBm)} = SG \text{ Setting (dBm)} + \text{Antenna Gain (dB/dBi)} - \text{Cable loss (dB)}$

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Radiated Spurious Emission Measurement Result: CDMA2000 band 800 Mode

Operation Mode : TX CH High E1 Mode

Test Date: May 29, 2008

Fundamental Frequency : 848.31 MHz

Test By: Willis

Temperature : 25°C

Pol: Ver

Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out- put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
58.13	57.53	V	-65.23	-0.49	0.67	-66.39	-13.00	-53.39
521.79	49.22	V	-60.05	-7.74	1.96	-69.75	-13.00	-56.75
717.73	46.21	V	-60.18	-7.86	2.33	-70.38	-13.00	-57.38
850.00	92.97	V	-10.77	-7.88	2.54	-21.19	-13.00	-8.19
1308.00	61.05	V	-54.58	7.74	2.10	-48.94	-13.00	-35.94
1696.62	65.55	V	-50.12	9.43	3.61	-44.30	-13.00	-31.30
2544.93	---	V		10.19	4.49		-13.00	
3393.24	73.84	V	-39.29	12.38	5.23	-32.14	-13.00	-19.14
4241.55	61.42	V	-49.46	12.63	5.87	-42.70	-13.00	-29.70
5089.86	---	V		12.74	6.51		-13.00	
5938.17	---	V		13.81	7.30		-13.00	
6786.48	---	V		11.86	7.87		-13.00	
7634.79	---	V		11.41	8.36		-13.00	
8483.10	---	V		11.69	9.02		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark :

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP\ (dBm) = SG\ Setting(dBm) + Antenna\ Gain\ (dB/dBi) - Cable\ loss\ (dB)$

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Radiated Spurious Emission Measurement Result: CDMA2000 band 800 Mode

Operation Mode : TX CH High E1 Mode

Test Date: May 29, 2008

Fundamental Frequency : 848.31MHz

Test By: Willis

Temperature : 25°C

Pol: Hor

Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out- put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
36.79	49.03	H	-68.64	-4.16	0.59	-73.39	-13.00	-60.39
155.13	45.69	H	-71.04	-7.80	1.05	-79.90	-13.00	-66.90
518.88	49.25	H	-60.83	-7.74	1.95	-70.51	-13.00	-57.51
850.00	88.71	H	-15.03	-7.88	2.54	-25.45	-13.00	-12.45
1316.00	62.54	H	-52.95	7.78	2.15	-47.32	-13.00	-34.32
1696.62	67.12	H	-48.37	9.43	3.61	-42.55	-13.00	-29.55
2544.93	---	H		10.19	4.49		-13.00	
3393.24	75.03	H	-38.14	12.38	5.23	-30.99	-13.00	-17.99
4241.55	67.44	H	-43.39	12.63	5.87	-36.63	-13.00	-23.63
5089.86	---	H		12.74	6.51		-13.00	
5938.17	---	H		13.81	7.30		-13.00	
6786.48	---	H		11.86	7.87		-13.00	
7634.79	---	H		11.41	8.36		-13.00	
8483.10	---	H		11.69	9.02		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark :

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP\ (dBm) = SG\ Setting(dBm) + Antenna\ Gain\ (dB/dBi) - Cable\ loss\ (dB)$

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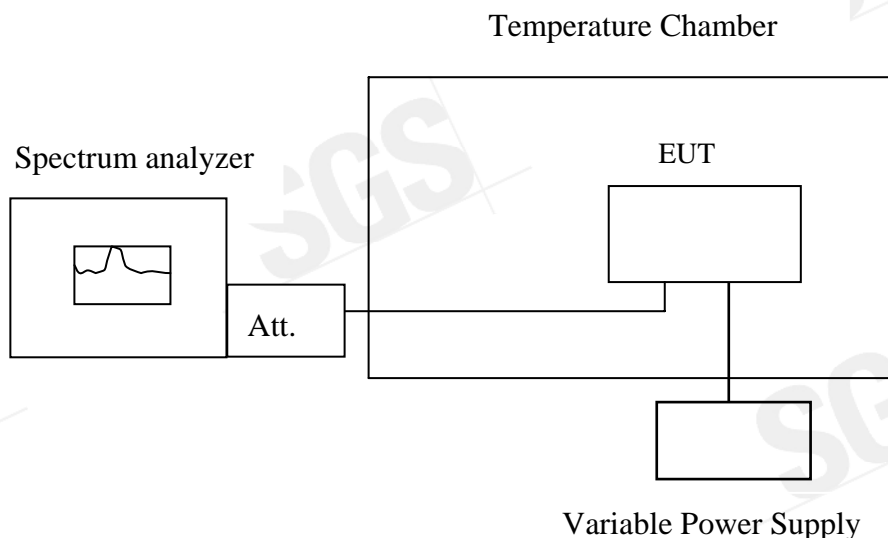
10. FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT

10.1 Standard Applicable

According to FCC §2.1055(a)(1)(b).

Frequency Tolerance: +/- 0.1 ppm

10.2 Test Set-up:



Note : Measurement setup for testing on Antenna connector

10.3 Measurement Procedure

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes re-recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

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10.4 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	03/29/2008	03/28/2009
Spectrum Analyzer	Agilent	7405A	US41160416	06/28/2007	06/29/2008
Power Sensor	Anritsu	MA2490A	31431	06/28/2007	06/29/2008
Power Meter	Anritsu	ML2487A	6K00002070	06/28/2007	06/29/2008
Temperature Chamber	TERCHY	MHG-120LF	911009	11/11/2007	11/12/2008
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A
Attenuator	Mini-Circuit	BW-S10W5	N/A	10/07/2007	10/06/2008
Attenuator	Mini-Circuit	BW-S6W5	N/A	10/07/2007	10/06/2008
Splitter	Mini-Circuit	ZFSC-2-10G	N/A	10/07/2007	10/06/2008
Signal Generator	R&S	SMR40	100210	11/09/2007	11/10/2008
DC Power Supply	Agilent	6038A	2929A-07548	01/06/2008	01/05/2009

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10.5 Measurement Result

Reference Frequency: CDMA Mid Channel 836.52 MHz @ 25°C				
Limit: +/- 0.1 ppm = 83.6 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.7	-30	836.519977	-12.0	83.6
3.7	-20	836.519980	-9.0	83.6
3.7	-10	836.519987	-2.0	83.6
3.7	0	836.520016	27.0	83.6
3.7	10	836.520005	16.0	83.6
3.7	20	836.519989	0.0	83.6
3.7	30	836.519991	2.0	83.6
3.7	40	836.519985	-4.0	83.6
3.7	50	836.520017	28.0	83.6

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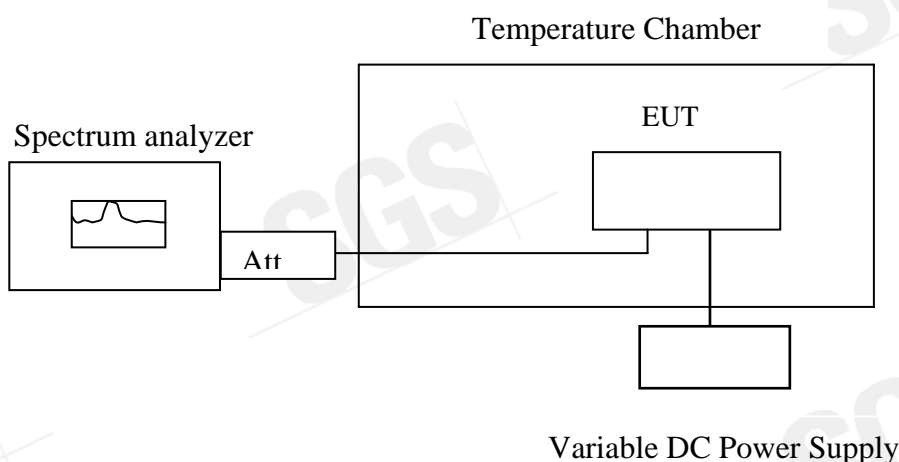
11. FREQUENCY STABILITY V.S. VOLTAGE MEASUREMENT

11.1 Standard Applicable

According to FCC §2.1055(d)(1)(2)

Frequency Tolerance: +/- 0.1 ppm

11.2 Test Set-up:



Note: Measurement setup for testing on Antenna connector

11.3 Measurement Procedure

Set chamber temperature to 25°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specified extreme voltage variation (+/- 15%) and endpoint, record the maximum frequency change.

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11.4 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	03/29/2008	03/28/2009
Spectrum Analyzer	Agilent	7405A	US41160416	06/28/2007	06/29/2008
Power Sensor	Anritsu	MA2490A	31431	06/28/2007	06/29/2008
Power Meter	Anritsu	ML2487A	6K00002070	06/28/2007	06/29/2008
Temperature Chamber	TERCHY	MHG-120LF	911009	11/11/2007	11/12/2008
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A
Attenuator	Mini-Circuit	BW-S10W5	N/A	10/07/2007	10/06/2008
Attenuator	Mini-Circuit	BW-S6W5	N/A	10/07/2007	10/06/2008
Splitter	Mini-Circuit	ZFSC-2-10G	N/A	10/07/2007	10/06/2008
Signal Generator	R&S	SMR40	100210	11/09/2007	11/10/2008
DC Power Supply	Agilent	6038A	2929A-07548	01/06/2008	01/05/2009

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11.5 Measurement Result

Reference Frequency: CDMA Mid Channel 836.52 MHz @ 25°C				
Limit: +/- 0.1 ppm = 83.6 Hz				
Power Supply (Vdc)	Environment Temperature (°C)	Frequency (MHz)	Delta (Hz)	Limit (Hz)
3.7	25.00	836.519990	0.00	83.65
3.1	25.00	836.520016	26.00	83.65
4.3	25.00	836.519992	2.00	83.65
2.9 (End Point)	25.00	836.519988	-2.00	83.65

Note: The battery is rated 3.7V dc.

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