



**FCC 47 CFR PART 22 SUBPART H AND PART 24 SUBPART E
(Class II Permissive Change)**

TEST REPORT

For

Express Mini-PCI USB Wireless CDMA Modem Module

Model: MC5720

Trade Name: SIERRA WIRELESS

Issued to

**SIERRA WIRELESS INC.
2290 COMOS CT.
CARLSBAD CALIFORINA 92009 U.S.A**

Issued by



Compliance Certification Services Inc.
No. 81-1, Lane 210, Bade Rd. 2, Luchu Hsiang,
Taoyuan Hsien, (338) Taiwan, R.O.C.
<http://www.ccsemc.com.tw>
service@tw.ccsemc.com



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1. TEST RESULT CERTIFICATION

Applicant: SIERRA WIRELESS INC.
 2290 COMOS CT.
 CARLSBAD CALIFORINA 92009 U.S.A

Equipment Under Test: Express Mini-PCI USB Wireless CDMA Modem Module

Trade Name: SIERRA WIRELESS

Model Number: MC5720

Date of Test: September 23, 2006

APPLICABLE STANDARDS	
STANDARD	TEST RESULT
FCC 47 CFR PART 22 SUBPART H AND PART 24 SUBPART E	No non-compliance noted

We hereby certify that:

The above equipment was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI/TIA/EIA-603-A-2001 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 and PART 24 Subpart E.

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

Approved by:

Reviewed by:

 Gavin Lim
 Section Manager
 Compliance Certification Services Inc.

 Amanda Wu
 Section Manager
 Compliance Certification Services Inc.



2. EUT DESCRIPTION

Product	Express Mini-PCI USB Wireless CDMA Modem Module
Trade Name	SIERRA WIRELESS
Model Number	MC5720
Model Discrepancy	N/A
Power Supply	Powered from host device
Frequency Range	TX: 824 ~ 849 MHz / 1850 ~ 1910 MHz RX: 869 ~ 894 MHz / 1930 ~ 1989.8 MHz
Transmit Power	850 MHz: 25.58 dBm 1900 MHz: 25.72 dBm
Cellular Phone Protocol	Cellular, PCS
Type of Emission	850 MHz: 1M39F9W--- 1900 MHz: 1M42F9W---
Antenna Specification	The EUT comes with two different sets of antennas: Approved Antenna: Monopole Antenna 850 MHz: 4.65 dBi 1900 MHz: 3.35 dBi New Antenna: PIFA Antenna 850 MHz: -4.92 dBi 1900 MHz: -4.74 dBi
Class II Permissive Change	Added one set of antenna, for detail descriptions, please refers to the antenna spec.

Remark: This submittal(s) (test report) is intended for FCC ID: N7N-MC5720 filing to comply with Part 22 and Part 24 of the FCC 47 CFR Rules.



3. TEST METHODOLOGY

Both conducted and radiated testing were performed according to the procedures document on chapter 13 of ANSI C63.4 and FCC CFR 47, 2.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055 and 2.1057.

3.1 EUT CONFIGURATION

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

3.2 EUT EXERCISE

The EUT was operated in the engineering mode to fix the TX frequency that was for the purpose of the measurements.

3.3 GENERAL TEST PROCEDURES

Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.4. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-peak and average detector modes.

Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable 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 maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 13.1.4.1 of ANSI C63.4.



3.4 DESCRIPTION OF TEST MODES

The EUT (model: MC5720) had been tested under operating condition.

Cellular Band	Avg. Output Power (dBm)	99% BW (MHz)	26dB BW (MHz)	Band edge (MHz)	
	Mid Ch	Mid Ch	Mid Ch	Mid Ch	Mid Ch
1xRRT RC3, SO2	24.38	1.2549	1.394	-17.915	-14.993
1xRRT RC3, SO32 (+F-SCH)	*24.63	1.2638	1.396	-16.942	-14.463
1xRRT RC3, SO32 (+SCH)	24.58	1.279	1.394	-17.511	-14.684
1xRRT RC3, SO55	24.55	1.2749	1.39	-17.216	-14.97
1xEVDO	*24.50	1.2519	1.39	-17.97	-14.897

Cellular Band	Avg. Output Power (dBm)	99% BW (MHz)	26dB BW (MHz)	Band edge (MHz)	
	Mid Ch	Mid Ch	Mid Ch	Mid Ch	Mid Ch
1xRRT RC3, SO2	24.35	1.253	1.403	-35.968	-33.323
1xRRT RC3, SO32 (+F-SCH)	*24.54	1.270	1.419	-35.016	-32.422
1xRRT RC3, SO32 (+SCH)	24.51	1.261	1.410	-35.869	-32.894
1xRRT RC3, SO55	24.44	1.263	1.408	-35.509	-32.500
1xEVDO	*23.08	1.253	1.394	-36.878	-33.473

Based on the above results from the different modulations, 1xRRT RC3, SO32 (+F-SCH) and 1xEVDO are determined to be the worst-case scenario for fundamental ERP /EIRP measurement and radiated spurious emissions tests.

Channel Low(CH 1013), Mid(CH 384) and High(CH 777) for cellular band and Channel Low(CH 25), Mid(CH 600) and High(CH 1175) for PCS band were chosen for radiated emission testing only.



4. INSTRUMENT CALIBRATION

4.1 MEASURING INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

4.2 MEASUREMENT EQUIPMENT USED

Equipment Used for Emissions Measurement

Remark: Each piece of equipment is scheduled for calibration once a year.

3M Semi Anechoic Chamber				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	E4446A	US42510252	07/25/2007
Test Receiver	Rohde&Schwarz	ESCI	100064	06/28/2007
Switch Controller	TRC	Switch Controller	SC94050010	05/05/2007
4 Port Switch	TRC	4 Port Switch	SC94050020	05/05/2007
Horn-Antenna	TRC	HA-0502	06	06/02/2007
Horn-Antenna	TRC	HA-0801	04	05/05/2007
Bilog- Antenna	Sunol Sciences	JB3	A030205	03/09/2007
Turn Table	Max-Full	MFT-120S	T120S940302	N.C.R.
Antenna Tower	Max-Full	MFA-430	A440940302	N.C.R.
Controller	Max-Full	MF-CM886	CC-C-1F-13	N.C.R.
Site NSA	CCS	N/A	FCC: 965860 IC: IC 6106	09/26/2008
Test S/W	LABVIEW (V 6.1)			

Remark: The measurement uncertainty is less than +/-2.0065dB (30MHz ~ 1GHz), +/-3.0958dB (Above 1GHz) which is evaluated as per the NAMAS NIS 81 and CISPR/A/291/CDV.



5. FACILITIES AND ACCREDITATIONS

5.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

No. 199, Chunghsen Road, Hsintien City, Taipei Hsien, Taiwan, R.O.C.

Tel: 886-2-2217-0894 / Fax: 886-2-2217-1029

No. No.11, Wugong 6th Rd., Wugu Industrial Park, Taipei Hsien 248, Taiwan

Tel: 886-2-2299-9720 / Fax: 886-2-2298-4045

No.81-1, Lane 210, Bade 2nd Rd., Luchu Hsiang, Taoyuan Hsien 338, Taiwan

Tel: 886-3-324-0332 / Fax: 886-3-324-5235

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22.

5.2 EQUIPMENT








Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, biconical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

5.3 TABLE OF ACCREDITATIONS AND LISTINGS

Country	Agency	Scope of Accreditation	Logo
USA	A2LA	EN 55011, EN 55014-1/2, CISPR 11, CISPR 14-1/2, EN 55022, EN 55015, CISPR 22, CISPR 15, AS/NZS 3548, VCCI V3 (2001), CFR 47, FCC Part 15/18, CNS 13783-1, CNS 13439, CNS 13438, CNS 13803, CNS 14115, EN 55024, IEC 801-2, IEC 801-3, IEC 801-4, IEC/EN 61000-3-2, EIC/EN 61000-3-3, IEC/EN 61000-4-2/3/4/5/6/8/11, EN 50081-1/ EN 61000-6-3, EN 50081-2/EN 61000-6-4, EN 50081-2/EN 61000-6-1: 2001	 0824-01
USA	FCC	3/10 meter Open Area Test Sites (93105, 90471) / 3M Semi Anechoic Chamber (965860) to perform FCC Part 15/18 measurements	 93105, 90471 965860
Japan	VCCI	3/10 meter Open Area Test Sites to perform conducted/radiated measurements	 R-393/1066/725/879 C-402/747/912
Norway	NEMKO	EN 50081-1/2, EN 50082-1/2, IEC 61000-6-1/2, EN 50091-2, EN 50130-4, EN 55011, EN 55013, EN 55014-1/2, EN 55015, EN 55022, EN 55024, EN 61000-3-2/3, EN 61326-1, IEC 61000-4-2/3/4/5/6/8/11, EN 60601-1-2, EN 300 328, EN 300 422-2, EN 301 419-1, EN 301 489-01/03/07/08/09/17, EN 301 419-2/3, EN 300 454-2, EN 301 357-2	 ELA 124a ELA 124b ELA 124c
Taiwan	TAF	EN 300 328, EN 300 220-1, EN 300 220-2, EN 300 220-3, 47 CFR FCC Part 15 Subpart C, EN 61000-3-2, EN 61000-3-3, CNS 13439, CNS 13783-1, CNS 14115, CNS 13438, AS/NZS CISPR 22, CNS 13022-1, IEC 61000-4-2/3/4/5/6/8/11, CNS 13022-2/3	 Testing Laboratory 0363
Taiwan	BSMI	CNS 13438, CNS 13783-1, CNS 13439, CNS 14115	 SL2-IS-E-0014 SL2-IN-E-0014 SL2-A1-E-0014 SL2-R1-E-0014 SL2-R2-E-0014 SL2-L1-E-0014
Canada	Industry Canada	3/10 meter Open Area Test Sites (IC 3991-3, IC 3991-4) / 3M Semi Anechoic Chamber (IC 6106) to perform RSS 212 Issue 1	 IC 3991-3 IC 3991-4 IC 6106

* No part of this report may be used to claim or imply product endorsement by A2LA or any agency of the US Government.



6. SETUP OF EQUIPMENT UNDER TEST

6.1 SETUP CONFIGURATION OF EUT

See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

6.2 SUPPORT EQUIPMENT

No.	Device Type	Brand	Model	Series No.	FCC ID	Data Cable	Power Cord
1.	Notebook PC	IBM	2672(X31)	99PBTKB	WLAN: ANO20030400LEG Bluetooth: ANO20020100MTN	N/A	AC I/P: Unshielded, 1.8m DC O/P: Unshielded, 1.8m with a core
2.	8960 (Remote)	Agilent	E5515C	GB44051665	FCC DoC	N/A	N/A
3.	Test kit	N/A	N/A	N/A	N/A	N/A	N/A

Remark:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

7. FCC PART 22 & 24 REQUIREMENTS

7.1 ERP & EIRP MEASUREMENT

LIMIT

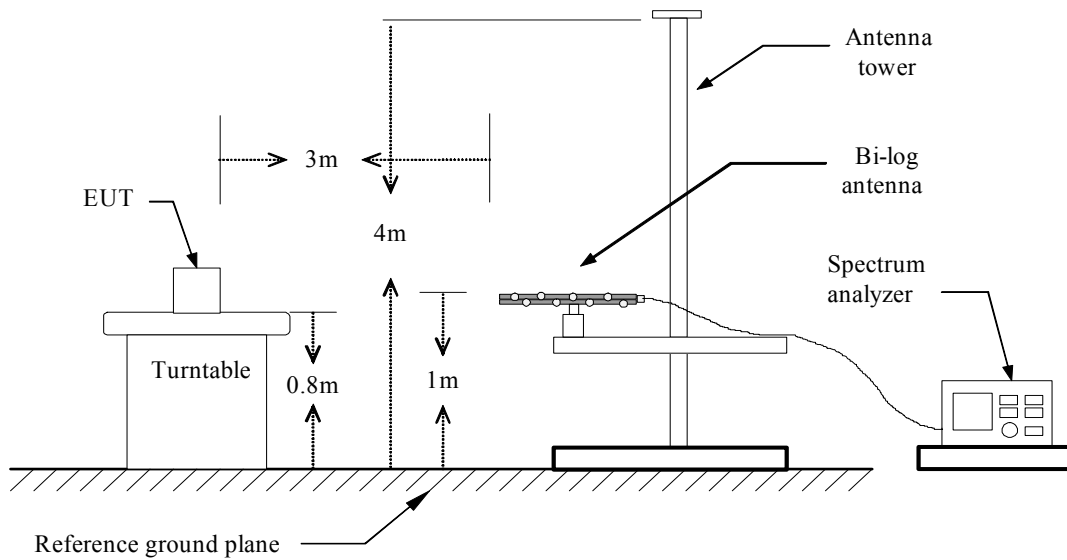
According to FCC §2.1046

FCC 22.913(b): The Effective Radiated Power (ERP) of mobile transmitters must not exceed 7 Watts.

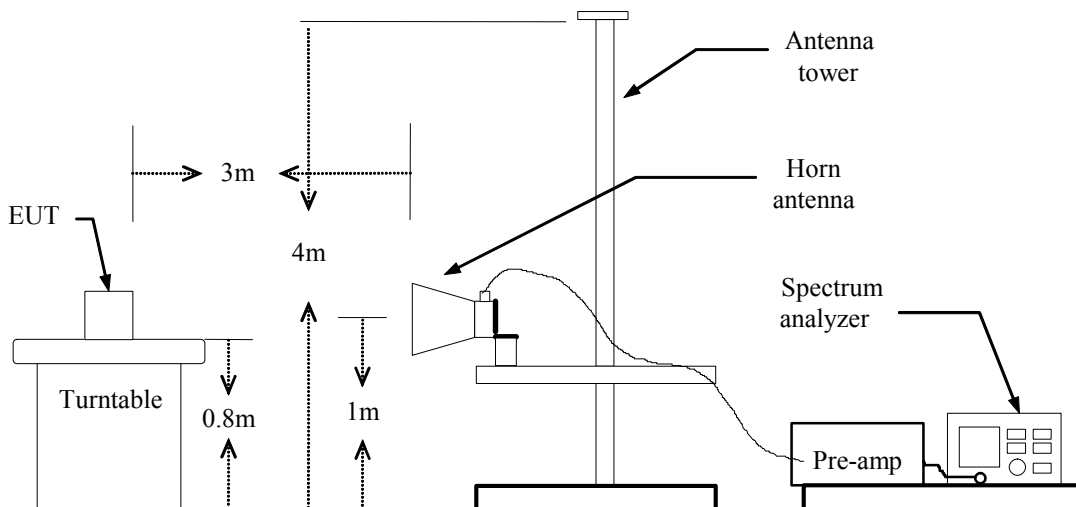
FCC 24.232(b): The equivalent Isotropic Radiated Power (EIRP) must not exceed 2 Watts.

TEST CONFIGURATION

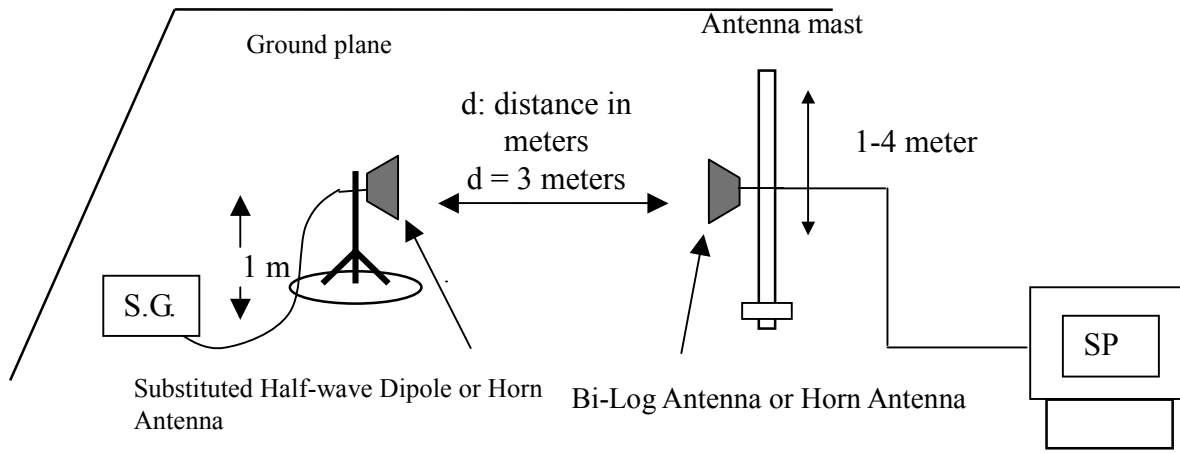
Below 1 GHz



Above 1 GHz



For Substituted Method Test Set-UP



TEST PROCEDURE

The EUT was placed on a 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 of the EUT, the resolution bandwidth was set to 3MHz and the average bandwidth was set to 3MHz. The highest emission was recorded with the rotation of the turntable and the lowering of the test antenna. The reading was recorded and the field strength (E in dBuV/m) was calculated.

ERP in frequency band 824-849MHz, and EIRP in frequency band 1851.25 –1910MHz were measured using a substitution method. The EUT was replaced by half-wave dipole (824-849MHz) or horn antenna (1851.25-1910MHz) connected to a signal generator. The spectrum analyzer reading was recorded and ERP/EIRP was calculated as follows:

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

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



TEST RESULTS

No non-compliance noted.

800MHZ CELL CDMA2000 1xRTT Test Data

Channel	Frequency (MHz)	Reading level (dBm)	Antenna Pol.	Correction Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)
Low	824.66	15.90	V	-4.38	11.53	38.50	-26.97
	824.72	13.60	H	-4.48	9.12	38.50	-29.38
Mid	836.54	18.87	V	-4.22	14.65	38.50	-23.85
	836.54	18.24	H	-4.33	13.91	38.50	-24.59
High	848.48	17.37	V	-4.07	13.31	38.50	-25.19
	848.48	19.53	H	-4.15	15.38	38.50	-23.12

1900MHZ PCS CDMA2000 1xRTT Test Data

Channel	Frequency (MHz)	Reading level (dBm)	Antenna Pol.	Correction Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)
Low	1850.88	17.18	V	1.51	18.69	33.00	-14.31
	1851.36	12.74	H	1.73	14.47	33.00	-18.53
Mid	1880.08	18.59	V	1.58	20.17	33.00	-12.83
	1880.08	15.50	H	1.79	17.30	33.00	-15.70
High	1908.56	20.58	V	1.66	22.23	33.00	-10.77
	1908.88	16.36	H	1.86	18.23	33.00	-14.77



800MHZ CELL CDMA2000 1xEVDO Test Data

Channel	Frequency (MHz)	Reading level (dBm)	Antenna Pol.	Correction Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)
Low	824.78	14.70	V	-4.38	10.33	38.50	-28.17
	824.84	14.24	H	-4.48	9.76	38.50	-28.74
Mid	836.66	17.43	V	-4.22	13.21	38.50	-25.29
	836.66	18.07	H	-4.33	13.74	38.50	-24.76
High	848.36	17.79	V	-4.07	13.71	38.50	-24.79
	848.36	19.27	H	-4.16	15.11	38.50	-23.39

1900MHZ PCS CDMA2000 1xEVDO Test Data

Channel	Frequency (MHz)	Reading level (dBm)	Antenna Pol.	Correction Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)
Low	1851.36	17.57	V	1.51	19.09	33.00	-13.91
	1851.44	13.41	H	1.73	15.14	33.00	-17.86
Mid	1880.24	19.59	V	1.59	21.18	33.00	-11.82
	1880.16	15.69	H	1.79	17.49	33.00	-15.51
High	1908.80	20.70	V	1.66	22.35	33.00	-10.65
	1908.88	16.83	H	1.86	18.69	33.00	-14.31

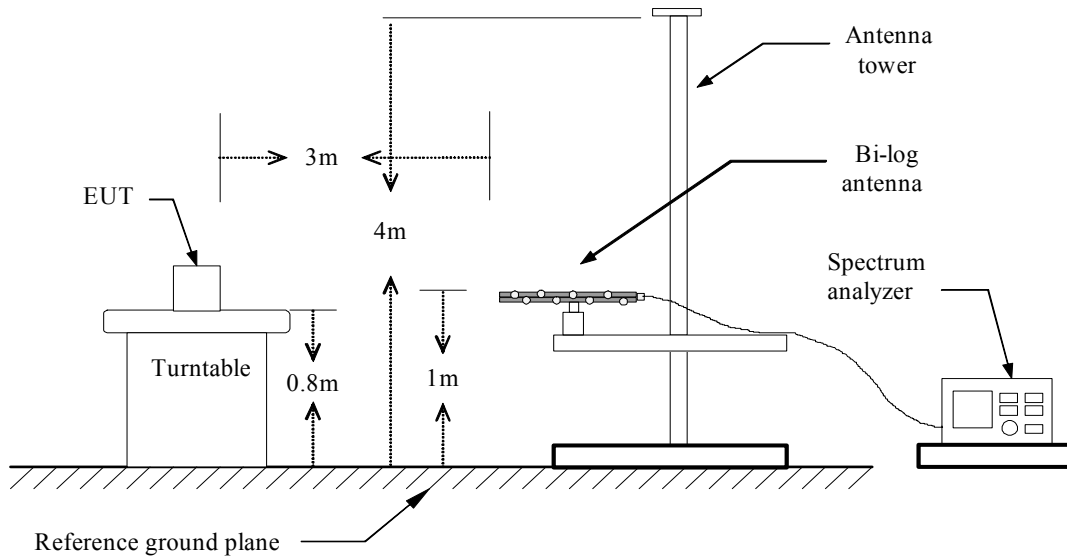
7.2 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

LIMIT

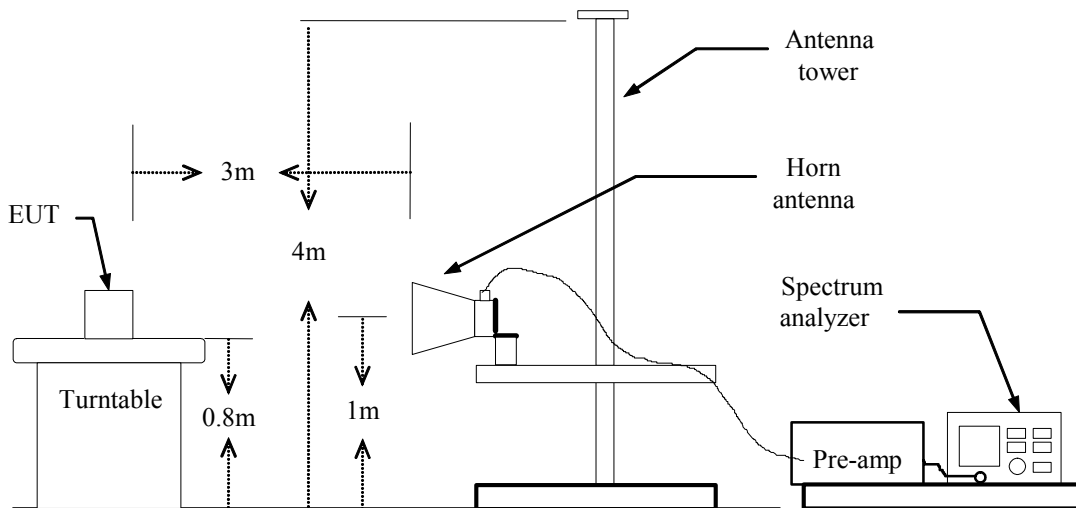
According to FCC §2.1053

Test Configuration

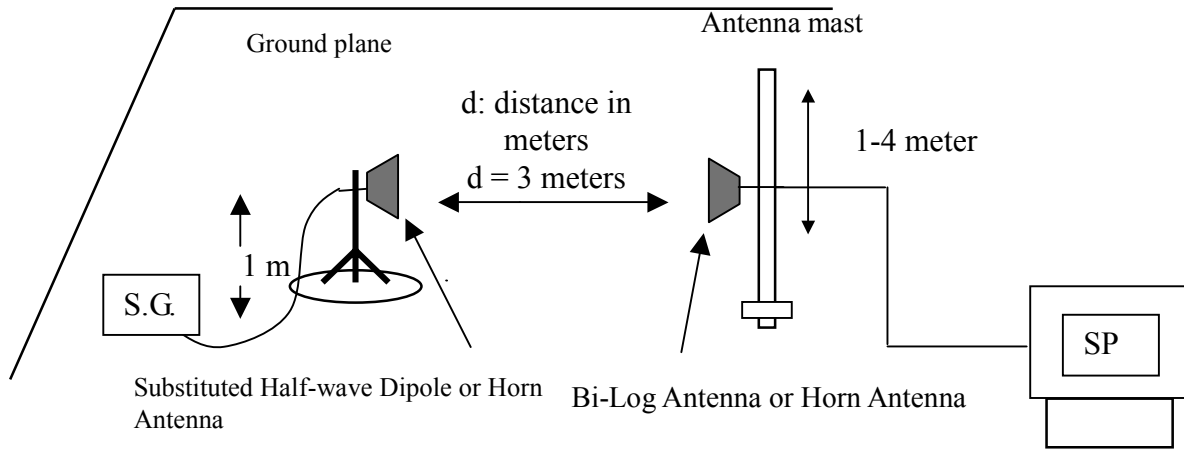
Below 1 GHz



Above 1 GHz



Substituted Method Test Set-up



TEST 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.

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

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

TEST RESULTS

Refer to the attached tabular data sheets.



Radiated Spurious Emission Measurement Result

Below 1GHz

Operation Mode: 800MHZ CELL CDMA2000 1xRTT / TX / CH Low **Test Date:** September 23, 2006

Temperature: 25°C

Tested by: Ivan Tsai

Humidity: 55 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
99.84	V	-36.68	-18.73	-55.40	-13.00	-42.40
143.49	V	-48.78	-16.82	-65.60	-13.00	-52.60
287.05	V	-47.21	-13.59	-60.80	-13.00	-47.80
299.66	V	-48.66	-13.59	-62.25	-13.00	-49.25
699.30	V	-54.53	-5.51	-60.04	-13.00	-47.04
796.30	V	-49.78	-4.50	-54.28	-13.00	-41.28
99.84	H	-33.55	-20.62	-54.17	-13.00	-41.17
287.05	H	-40.86	-15.08	-55.94	-13.00	-42.94
299.66	H	-41.90	-14.59	-56.49	-13.00	-43.49
398.60	H	-49.30	-11.35	-60.65	-13.00	-47.65
699.30	H	-50.76	-5.81	-56.56	-13.00	-43.56
799.21	H	-54.72	-4.23	-58.95	-13.00	-45.95

Remark:

1. The emission behaviour belongs to narrowband spurious emission.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: 800MHZ CELL CDMA2000 1xRTT / TX / CH Mid Test Date: September 23, 2006

Temperature: 25°C

Tested by: Ivan Tsai

Humidity: 55 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
45.52	V	-56.16	-5.06	-61.21	-13.00	-48.21
99.84	V	-36.75	-18.73	-55.48	-13.00	-42.48
299.66	V	-48.93	-13.59	-62.52	-13.00	-49.52
359.80	V	-50.20	-12.65	-62.86	-13.00	-49.86
532.46	V	-54.49	-8.19	-62.68	-13.00	-49.68
799.21	V	-50.78	-4.51	-55.29	-13.00	-42.29
99.84	H	-33.00	-20.62	-53.62	-13.00	-40.62
288.02	H	-40.33	-14.99	-55.32	-13.00	-42.32
299.66	H	-41.52	-14.59	-56.10	-13.00	-43.10
599.39	H	-53.14	-6.90	-60.04	-13.00	-47.04
699.30	H	-51.14	-5.81	-56.95	-13.00	-43.95
799.21	H	-54.78	-4.23	-59.02	-13.00	-46.02

Remark:

1. The emission behaviour belongs to narrowband spurious emission.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: 800MHZ CELL CDMA2000 1xRTT / TX / CH High Test Date: September 23, 2006

Temperature: 25°C

Tested by: Ivan Tsai

Humidity: 55 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
45.52	V	-56.66	-5.06	-61.72	-13.00	-48.72
99.84	V	-35.90	-18.73	-54.62	-13.00	-41.62
287.05	V	-49.34	-13.59	-62.93	-13.00	-49.93
532.46	V	-54.71	-8.19	-62.90	-13.00	-49.90
699.30	V	-54.68	-5.51	-60.19	-13.00	-47.19
796.30	V	-51.85	-4.50	-56.35	-13.00	-43.35
99.84	H	-32.95	-20.62	-53.56	-13.00	-40.56
299.66	H	-40.94	-14.59	-55.52	-13.00	-42.52
359.80	H	-46.98	-12.78	-59.76	-13.00	-46.76
399.57	H	-49.78	-11.34	-61.12	-13.00	-48.12
499.48	H	-52.46	-8.40	-60.86	-13.00	-47.86
699.30	H	-50.49	-5.81	-56.30	-13.00	-43.30

Remark:

1. The emission behaviour belongs to narrowband spurious emission.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: 800MHZ CELL CDMA2000 1xEVDO / TX / CH Low Test Date: September 23, 2006

Temperature: 25°C

Tested by: Ivan Tsai

Humidity: 55 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
99.84	V	-37.31	-18.73	-56.04	-13.00	-43.04
287.05	V	-42.98	-13.59	-56.58	-13.00	-43.58
432.55	V	-50.05	-10.45	-60.50	-13.00	-47.50
531.49	V	-48.85	-8.20	-57.05	-13.00	-44.05
699.30	V	-50.48	-5.51	-55.99	-13.00	-42.99
799.21	V	-44.56	-4.51	-49.07	-13.00	-36.07
99.84	H	-35.71	-20.62	-56.32	-13.00	-43.32
143.49	H	-42.46	-17.45	-59.91	-13.00	-46.91
298.69	H	-36.81	-14.61	-51.42	-13.00	-38.42
499.48	H	-49.42	-8.40	-57.82	-13.00	-44.82
599.39	H	-49.29	-6.90	-56.19	-13.00	-43.19
699.30	H	-48.68	-5.81	-54.48	-13.00	-41.48

Remark:

1. The emission behaviour belongs to narrowband spurious emission.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: 800MHZ CELL CDMA2000 1xEVDO / TX / CH Mid Test Date: September 23, 2006

Temperature: 25°C

Tested by: Ivan Tsai

Humidity: 55 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
99.84	V	-40.47	-18.73	-59.19	-13.00	-46.19
287.05	V	-43.61	-13.59	-57.21	-13.00	-44.21
359.80	V	-47.34	-12.65	-59.99	-13.00	-46.99
530.52	V	-52.27	-8.22	-60.48	-13.00	-47.48
699.30	V	-52.66	-5.51	-58.17	-13.00	-45.17
796.30	V	-47.82	-4.50	-52.32	-13.00	-39.32
99.84	H	-35.94	-20.62	-56.56	-13.00	-43.56
143.49	H	-43.41	-17.45	-60.86	-13.00	-47.86
298.69	H	-37.64	-14.61	-52.25	-13.00	-39.25
599.39	H	-49.61	-6.90	-56.51	-13.00	-43.51
699.30	H	-49.07	-5.81	-54.88	-13.00	-41.88
799.21	H	-53.14	-4.23	-57.37	-13.00	-44.37

Remark:

1. The emission behaviour belongs to narrowband spurious emission.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: 800MHZ CELL CDMA2000 1xEVDO / TX / CH High Test Date: September 23, 2006

Temperature: 25°C

Tested by: Ivan Tsai

Humidity: 55 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
99.84	V	-40.97	-18.73	-59.69	-13.00	-46.69
299.66	V	-48.11	-13.59	-61.69	-13.00	-48.69
359.80	V	-54.31	-12.65	-66.96	-13.00	-53.96
582.90	V	-53.30	-7.41	-60.71	-13.00	-47.71
699.30	V	-53.11	-5.51	-58.62	-13.00	-45.62
796.30	V	-48.84	-4.50	-53.34	-13.00	-40.34
99.84	H	-37.49	-20.62	-58.11	-13.00	-45.11
299.66	H	-38.95	-14.59	-53.54	-13.00	-40.54
499.48	H	-50.34	-8.40	-58.73	-13.00	-45.73
599.39	H	-51.61	-6.90	-58.51	-13.00	-45.51
699.30	H	-50.72	-5.81	-56.52	-13.00	-43.52
796.30	H	-54.47	-4.20	-58.68	-13.00	-45.68

Remark:

1. The emission behaviour belongs to narrowband spurious emission.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Above 1GHz

Operation Mode: 800MHZ CELL CDMA2000 1xRTT / TX / CH Low **Test Date:** September 23, 2006

Temperature: 25°C **Tested by:** Ivan Tsai

Humidity: 55 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading level (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
2498.00	V	-46.07	3.73	-42.34	-13.00	-29.34
N/A						
2680.00	H	-46.72	4.67	-42.05	-13.00	-29.05
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: 800MHZ CELL CDMA2000 1xRTT / TX / CH Mid Test Date: September 23, 2006

Temperature: 25°C

Tested by: Ivan Tsai

Humidity: 55 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading level (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
2995.00	V	-45.62	5.58	-40.04	-13.00	-27.04
6558.00	V	-48.37	15.29	-33.08	-13.00	-20.08
N/A						
2162.00	H	-47.90	2.72	-45.19	-13.00	-32.19
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: 800MHZ CELL CDMA2000 1xRTT / TX / CH High Test Date: September 23, 2006

Temperature: 25°C

Tested by: Ivan Tsai

Humidity: 55 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading level (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
2491.00	V	-45.91	3.71	-42.20	-13.00	-29.20
N/A						
1518.00	H	-48.70	0.93	-47.77	-13.00	-34.77
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: 800MHZ CELL CDMA2000 1xEVDO / TX / CH Low Test Date: September 23, 2006

Temperature: 25°C

Tested by: Ivan Tsai

Humidity: 55 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading level (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
2491.00	V	-45.76	3.71	-42.05	-13.00	-29.05
N/A						
3296.00	H	-45.79	6.46	-39.33	-13.00	-26.33
4262.00	H	-47.58	8.10	-39.48	-13.00	-26.48
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: 800MHZ CELL CDMA2000 1xEVDO / TX / CH Mid Test Date: September 23, 2006

Temperature: 25°C

Tested by: Ivan Tsai

Humidity: 55 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading level (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
1798.00	V	-47.30	1.38	-45.91	-13.00	-32.91
3863.00	V	-47.43	7.24	-40.19	-13.00	-27.19
N/A						
1665.00	H	-46.72	1.28	-45.43	-13.00	-32.43
2512.00	H	-46.64	4.09	-42.55	-13.00	-29.55
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: 800MHZ CELL CDMA2000 1xEVDO / TX / CH High Test Date: September 23, 2006

Temperature: 25°C

Tested by: Ivan Tsai

Humidity: 55 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading level (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
1798.00	V	-47.61	1.38	-46.23	-13.00	-33.23
2498.00	V	-45.82	3.73	-42.08	-13.00	-29.08
N/A						
2162.00	H	-47.56	2.72	-44.85	-13.00	-31.85
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Below 1GHz

Operation Mode: 1900MHz PCS CDMA2000 1xRTT / TX / CH Low **Test Date:** September 23, 2006

Temperature: 25°C

Tested by: Ivan Tsai

Humidity: 55 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
44.55	V	-45.06	-5.36	-50.42	-13.00	-37.42
399.57	V	-51.30	-11.45	-62.76	-13.00	-49.76
532.46	V	-54.80	-8.19	-62.98	-13.00	-49.98
599.39	V	-55.74	-6.91	-62.65	-13.00	-49.65
699.30	V	-54.01	-5.51	-59.52	-13.00	-46.52
799.21	V	-50.45	-4.51	-54.96	-13.00	-41.96
40.67	H	-40.65	-6.00	-46.65	-13.00	-33.65
99.84	H	-33.28	-20.62	-53.90	-13.00	-40.90
299.66	H	-41.26	-14.59	-55.85	-13.00	-42.85
497.54	H	-52.13	-8.41	-60.54	-13.00	-47.54
699.30	H	-50.06	-5.81	-55.87	-13.00	-42.87
799.21	H	-55.54	-4.23	-59.77	-13.00	-46.77

Remark:

- 1. The emission behaviour belongs to narrowband spurious emission.*
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: 1900MHz PCS CDMA2000 1xRTT / TX / CH Mid Test Date: September 23, 2006

Temperature: 25°C

Tested by: Ivan Tsai

Humidity: 55 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
44.55	V	-43.67	-5.36	-49.03	-13.00	-36.03
99.84	V	-39.85	-18.73	-58.57	-13.00	-45.57
299.66	V	-48.21	-13.59	-61.80	-13.00	-48.80
599.39	V	-55.98	-6.91	-62.89	-13.00	-49.89
699.30	V	-54.23	-5.51	-59.74	-13.00	-46.74
799.21	V	-50.33	-4.51	-54.84	-13.00	-41.84
99.84	H	-34.57	-20.62	-55.19	-13.00	-42.19
144.46	H	-44.95	-17.44	-62.39	-13.00	-49.39
299.66	H	-40.88	-14.59	-55.46	-13.00	-42.46
358.83	H	-44.23	-12.80	-57.03	-13.00	-44.03
499.48	H	-52.12	-8.40	-60.52	-13.00	-47.52
699.30	H	-51.78	-5.81	-57.59	-13.00	-44.59

Remark:

1. The emission behaviour belongs to narrowband spurious emission.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: 1900MHz PCS CDMA2000 1xRTT / TX / CH High Test Date: September 23, 2006

Temperature: 25°C

Tested by: Ivan Tsai

Humidity: 55 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
99.84	V	-35.47	-20.62	-56.08	-13.00	-43.08
299.66	V	-40.20	-14.59	-54.78	-13.00	-41.78
499.48	V	-52.10	-8.40	-60.50	-13.00	-47.50
599.39	V	-52.32	-6.90	-59.22	-13.00	-46.22
699.30	V	-50.58	-5.81	-56.39	-13.00	-43.39
799.21	V	-54.14	-4.23	-58.37	-13.00	-45.37
99.84	H	-41.45	-18.73	-60.18	-13.00	-47.18
299.66	H	-48.23	-13.59	-61.82	-13.00	-48.82
399.57	H	-50.95	-11.45	-62.41	-13.00	-49.41
599.39	H	-56.02	-6.91	-62.93	-13.00	-49.93
699.30	H	-54.24	-5.51	-59.75	-13.00	-46.75
799.21	H	-50.36	-4.51	-54.87	-13.00	-41.87

Remark:

1. The emission behaviour belongs to narrowband spurious emission.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: 1900MHz PCS CDMA2000 1xEVDO / TX / CH Low Test Date: September 23, 2006

Temperature: 25°C

Tested by: Ivan Tsai

Humidity: 55 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
99.84	V	-40.47	-18.73	-59.19	-13.00	-46.19
299.66	V	-46.69	-13.59	-60.27	-13.00	-47.27
532.46	V	-54.47	-8.19	-62.66	-13.00	-49.66
599.39	V	-55.49	-6.91	-62.40	-13.00	-49.40
699.30	V	-54.03	-5.51	-59.54	-13.00	-46.54
796.30	V	-50.60	-4.50	-55.10	-13.00	-42.10
99.84	H	-37.44	-20.62	-58.06	-13.00	-45.06
298.69	H	-38.99	-14.61	-53.60	-13.00	-40.60
358.83	H	-47.70	-12.80	-60.50	-13.00	-47.50
499.48	H	-50.74	-8.40	-59.14	-13.00	-46.14
697.36	H	-50.64	-5.83	-56.47	-13.00	-43.47
799.21	H	-54.63	-4.23	-58.87	-13.00	-45.87

Remark:

1. The emission behaviour belongs to narrowband spurious emission.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: 1900MHz PCS CDMA2000 1xEVDO / TX / CH Mid Test Date: September 23, 2006

Temperature: 25°C

Tested by: Ivan Tsai

Humidity: 55 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
99.84	V	-40.59	-18.73	-59.31	-13.00	-46.31
299.66	V	-45.68	-13.59	-59.27	-13.00	-46.27
399.57	V	-51.76	-11.45	-63.22	-13.00	-50.22
599.39	V	-54.66	-6.91	-61.57	-13.00	-48.57
699.30	V	-54.30	-5.51	-59.82	-13.00	-46.82
799.21	V	-50.02	-4.51	-54.53	-13.00	-41.53
99.84	H	-37.68	-20.62	-58.30	-13.00	-45.30
143.49	H	-44.06	-17.45	-61.51	-13.00	-48.51
288.02	H	-43.09	-14.99	-58.08	-13.00	-45.08
299.66	H	-39.56	-14.59	-54.15	-13.00	-41.15
399.57	H	-51.57	-11.34	-62.91	-13.00	-49.91
699.30	H	-50.51	-5.81	-56.31	-13.00	-43.31

Remark:

1. The emission behaviour belongs to narrowband spurious emission.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: 1900MHz PCS CDMA2000 1xEVDO / TX / CH High Test Date: September 23, 2006

Temperature: 25°C

Tested by: Ivan Tsai

Humidity: 55 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
143.49	V	-46.70	-16.82	-63.51	-13.00	-50.51
298.69	V	-48.35	-13.55	-61.90	-13.00	-48.90
533.43	V	-54.99	-8.17	-63.16	-13.00	-50.16
597.45	V	-55.69	-6.97	-62.66	-13.00	-49.66
699.30	V	-54.10	-5.51	-59.61	-13.00	-46.61
799.21	V	-49.76	-4.51	-54.27	-13.00	-41.27
99.84	H	-36.73	-20.62	-57.35	-13.00	-44.35
288.02	H	-42.61	-14.99	-57.60	-13.00	-44.60
298.69	H	-38.72	-14.61	-53.33	-13.00	-40.33
358.83	H	-48.28	-12.80	-61.08	-13.00	-48.08
599.39	H	-51.92	-6.90	-58.82	-13.00	-45.82
699.30	H	-51.46	-5.81	-57.26	-13.00	-44.26

Remark:

1. The emission behaviour belongs to narrowband spurious emission.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Above 1GHz

Operation Mode: 1900MHz PCS CDMA2000 1xRTT / TX / CH Low **Test Date:** September 23, 2006

Temperature: 25°C

Tested by: Ivan Tsai

Humidity: 55 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading level (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
5557.00	V	-39.90	10.02	-29.88	-13.00	-16.88
N/A						
5557.00	H	-45.68	9.84	-35.85	-13.00	-22.85
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: 1900MHz PCS CDMA2000 1xRTT / TX / CH Mid Test Date: September 23, 2006

Temperature: 25°C

Tested by: Ivan Tsai

Humidity: 55 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading level (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
3758.00	V	-44.96	7.06	-37.90	-13.00	-24.90
5641.00	V	-38.20	10.66	-27.54	-13.00	-14.54
N/A						
5641.00	H	-46.14	9.95	-36.19	-13.00	-23.19
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: 1900MHz PCS CDMA2000 1xRTT / TX / CH High Test Date: September 23, 2006

Temperature: 25°C

Tested by: Ivan Tsai

Humidity: 55 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading level (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
3821.00	V	-39.63	7.17	-32.46	-13.00	-19.46
5725.00	V	-39.69	11.30	-28.39	-13.00	-15.39
N/A						
3821.00	H	-38.07	7.36	-30.71	-13.00	-17.71
5725.00	H	-47.52	10.07	-37.45	-13.00	-24.45
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: 1900MHz PCS CDMA2000 1xEVDO / TX / CH Low Test Date: September 23, 2006

Temperature: 25°C

Tested by: Ivan Tsai

Humidity: 55 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading level (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
5557.00	V	-40.72	10.02	-30.70	-13.00	-17.70
N/A						
5557.00	H	-46.12	9.84	-36.28	-13.00	-23.28
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: 1900MHz PCS CDMA2000 1xEVDO / TX / CH Mid Test Date: September 23, 2006

Temperature: 25°C

Tested by: Ivan Tsai

Humidity: 55 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading level (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
3758.00	V	-45.23	7.06	-38.16	-13.00	-25.16
5641.00	V	-38.94	10.66	-28.28	-13.00	-15.28
N/A						
5641.00	H	-47.55	9.95	-37.60	-13.00	-24.60
6551.00	H	-47.86	13.18	-34.68	-13.00	-21.68
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: 1900MHz PCS CDMA2000 1xEVDO / TX / CH High Test Date: September 23, 2006

Temperature: 25°C

Tested by: Ivan Tsai

Humidity: 55 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading level (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
3821.00	V	-35.17	7.17	-28.00	-13.00	-15.00
5725.00	V	-39.59	11.30	-28.29	-13.00	-15.29
N/A						
3821.00	H	-37.63	7.36	-30.27	-13.00	-17.27
5725.00	H	-46.04	10.07	-35.97	-13.00	-22.97
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.