

Test & Certification Center (TCC) - Dallas

FCC ID: QMNRM-124
Test Report #: WR901.006
13-Jan-06Accredited Laboratory
Certificate Number: 1819-01

Ver 4.0

CFR 47 Part 2, 22, and 24 Test Report

Test Report Number: WR 901.006

Terminal device:FCC ID: QMNRM-124 Model: 2855i Type: RM-124 HW: 2001 SW: VR100_5w21_18.nep
(Detailed information is listed in section 4).

Originator: Hai To / Michael Sundstrom
Function: TCC - Dallas – EMC
Version/Status: 3.0 Approved
Location: TCC Directories
Date: 13-Jan-06

Change History:

Version	Date	Status	Handled By	Comments
0.1	21-Oct-05	Draft	Hai To	
0.2	24-Oct-05	Proposal	Hai To	
0.3	25-Oct-05	Reviewed	Hai To	
1.0	26-Oct-05	Approved	Michael Sundstrom	
1.1	2-Nov-05	Reviewed	Hai To	
2.0	2-Nov-05	Approved	Michael Sundstrom	Remove all section 22.915
2.1	5-Nov-05	Re-test	Hai To	Retest analog
3.0	17-Nov-05	Approved	Michael Sundstrom	
3.1	13-Jan-06	Reviewed	Hai To	Remove Amps Occupied BW.
4.0	13-Jan-06	Approved	Michael Sundstrom	

Testing laboratory:

Test & Certification Center (TCC) Dallas
Nokia Inc
6021 Connection Drive
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Tel. 972-894-5000

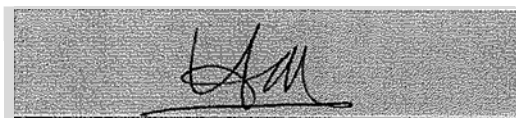
Client:

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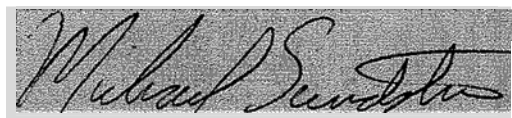
Date and signatures:

13-Jan-06

For the contents:



Hai To
Test Operator



Michael Sundstrom
Technical Review

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3 (31)

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1. GENERAL

1.1 Quality System

The quality system in place for TCC-Dallas conforms to ISO/IEC 17025 and has been audited to the standard by A2LA (American Association of Laboratory Accreditation). TCC - Dallas has also been audited using the ISO 9000 Quality System, as part of Nokia Mobile Phones, Inc., by ABS (American Bureau of Shipping) Quality Evaluations Inc.

TCC-Dallas is a recognized laboratory with the Federal Communications Commission in filing applications for Certification under Parts 15 and 18, Registration Number 100060, and Industry Canada, Registration Number IC 661N.

1.2 Objective

All tests and measurement data shown was performed to determine whether the selected handset was in compliance as specified in FCC: CFR47 Parts 2.947, 2.1033(c), 2.1041, 2.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055, 2.1057, Part 22, and Part 24.

1.3 Test Summary

Test Results: *The test result relates only to those tested devices mentioned in Section 4 of this test report.*

Test Performed	Reference	Section of Report	Complies / Does not comply / Not Tested
RF Power Output (Conducted)	FCC Part 2.1046(a) / 22.913(a) / 24.232(b)(c)	5	Complies
Occupied Bandwidth (Transmitter Conducted Measurement)	FCC Part 2.1049	6	Complies
Spurious Emissions at Antenna Terminals	FCC Part 2.1051	7	Complies
Emissions in Receiver Critical Band	FCC Part 22.917(f)	8	Complies
Frequency Stability (Temperature Variation)	FCC Part 2.1055(a)(1)(b), 24.235	9	Complies
Frequency Stability (Voltage Variation)	FCC Part 2.1055(d)(1)(2), 24.235	10	Complies

STANDARDS BASIS

Testing has been carried out in accordance with:

REF.	Code of the standard	Name of the standard
1	ANSI C63.4	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9kHz to 40GHz.
2	FCC: CFR 47 Part 2	Code of Federal Regulations (CFR) Title 47, Part 2 – Frequency Allocations and Radio Treaty Matters; General Rules and Regulations: Subpart J – Equipment Authorization Procedures
3	FCC: CFR 47 Part 22	Code of Federal Regulations (CFR) Title 47, Part 22 – Public Mobile Services: Subpart H – Cellular Radiotelephone Service
4	FCC: CFR 47 Part 24	Code of Federal Regulations (CFR) Title 47, Part 24 – Personal Communications Services: Subpart E – Broadband PCS
5	RSS-129	800 MHz Dual-Mode CDMA Cellular Telephones
6	RSS-132	800 MHz Cellular Telephones Employing New Technologies
7	RSS-133	2 GHz Personal Communications Services, Industry Canada
8	RSS-212	Test Facilities and Test Methods for Radio Equipment, Industry Canada (Provisional)
9	RSP-100	Radio Equipment Certification Procedure

Note: Unless otherwise stated, (by reference to a version number and a publication date), the latest version of the above documents applies.

Deviations:

Not Applicable.

2. LIST OF ABBREVIATIONS, ACRONYMS AND TERMS

2.1 Abbreviations

dB - decibel

dBc - decibels from carrier

dBm - decibels per milliwatt (absolute measurement)

GHz - gigahertz or 1000000000 hertz

kHz - kilohertz or 1000 hertz

MHz - megahertz or 1000000 hertz

2.2 Acronyms

AMPS - Advanced Mobile Phone System

BSS - Base Station Simulator

CDMA - Code Division Multiple Access

EDRP - Effective Dipole Radiated Power

EIRP - Effective Isotropic Radiated Power

EMC - Electromagnetic Compatibility

EMI - Electromagnetic Interference

ERP - Effective Radiated Power

EUT - Equipment under Test

GSM - Global System for Mobile communications

PCS - Personal Communications Services

RF - Radio Frequency

TDMA - Time Division Multiple Access

2.3 Terms

Base Station Simulator (BSS) - simulates all the necessary signals that a phone would experience while on a live network. There are many types of base station simulators catering for all current protocols, i.e., GSM, AMPS, TDMA, and CDMA.

Cellular - refers to a frequency in the 800MHz band.

PCS - refers to a frequency in the 1900MHz band.

3. EQUIPMENT-UNDER-TEST (EUT)

The results in this report relate only to the items listed below:

3.1 Description of Tested Device(s):

Test Performed	Mode of Operation	Date of Receipt	Condition of Sample	Item	Identifying Information
FCC Part 2.1046(a) / 22.913(a) / 24.232(b)(c) FCC Part 2.1049 FCC Part 2.1051 FCC Part 22.917(f) FCC Part 2.1055(a)(1)(b), 24.235 FCC Part 2.1055(d)(1)(2), 24.235	AMPS, CDMA 800 CDMA 1900	18-Oct -05	Working	Phone	FCC ID: QMNRM-124 Type: RM-124 HW: 2001 SW: VR100_05w21_18.nep ESN: 03306001526
FCC Part 2.1051 FCC Part 22.917(f) FCC Part 2.1049 FCC Part 2.1055(a)(1)(b), 24.235 FCC Part 2.1055(d)(1)(2), 24.235 FCC Part 2.1046(a) / 22.913(a) / 24.232(b)(c)	AMPS CDMA 800 CDMA 1900	18-Oct-05	Working	Battery	Type: BL-6C Other:

3.2 Photograph of Tested Device(s):

Refer to attached EXHIBITS

4. TEST EQUIPMENT LIST

The listing below indicates the test equipment utilized for the test (s). Calibration interval on all items listed can be obtained from the Engineering Services Group within NMP, Product Creation - Dallas. Where relevant, measuring equipment is subjected to in-service checks between testing. TCC - Dallas shall notify clients promptly, in writing, of identification of defective measuring equipment that casts doubt on the validity of results given in this report.

Section of Report	NMP#	Test Equipment	Mfr. #	Model #	Calibration Due Date	Calibration Interval
6,7,8	02664 02665	EMI Receiver	Agilent	8546A / 85460A	09 Feb 06	12 months
6,7,8	N/A	6dB Attenuator	Weinshchel	Model 2	09 Feb 06	12 months
5,6,7,8,9,10	02666	Base Station	R&S	CMU200	30 Jun 06	12 months
6,7,8	02680	Spectrum Analyzer	Agilent	E7405A	01-Jun-06	12 Months
6,7,8	00087	Synthesized Fun/Sweep Generator	HP	3324A	03 Mar 06	12Months
9,10	00485	Multi-Meter	Fluke	87III	12 May 06	12 Months
9,10	00837	Temperature Chamber	Tenney Environmental	N/A	20 Jan 06	12 months

5. FCC PART 2.1046(A), 22.913(A), 24.232(B)(C), RF POWER OUTPUT (CONDUCTED)

Specification: FCC Part 2.1046(a), 22.913(a), 24.232(b)(c)

5.1 Setup

Testing was performed with the EUT connected to a 6dB splitter and then to the RF Power Meter to measure the conducted RF power output. The base station simulator was connected to the other port of the splitter to establish a call.

5.2 Pass/Fail Criteria

Not Applicable

5.3 Detailed Test Results

Test Technician / Engineer	Julian Kim
Date of Measurement	21-Oct-05
Temperature	22°C
Humidity	55%RH
Test Result	Was operated at max power and tested in accordance with FCC Part 2.1046(a), 22.913(a), 24.232(b)(c).

AMPS S/N2

Channel	Freq Max (MHz)	Max (dBm)	Max (mW)
991	824.04 MHz	25.1	316.2
384	836.52 MHz	25.1	323.6
799	848.97 MHz	25.1	323.6

CDMA 800 S/N2

Channel	Freq Max (MHz)	Max (dBm)	Max (mW)
1013	824.70 MHz	25.1	323.6
384	836.52 MHz	25.1	323.6
777	848.31 MHz	25.1	323.6

CDMA ESN S/N2

Channel	Freq Max (MHz)	Max (dBm)	Max (mW)
25	1851.25 MHz	23.1	204.2
600	1880.00 MHz	23.0	199.5
1175	1908.75 MHz	23.0	199.5

6. OCCUPIED BANDWIDTH (TRANSMITTER CONDUCTED MEASUREMENTS)

Specification: FCC Part 2.1049(c)(1), 24.238(a)(b)

6.1 Setup

Testing was performed with the EUT connected to a 6dB attenuator, 6dB splitter, filter bank and then to the EMI receiver. The base station simulator was connected to the other port of the splitter to establish a call.

6.2 Pass/Fail Criteria

Occupied Bandwidth, Out of Band

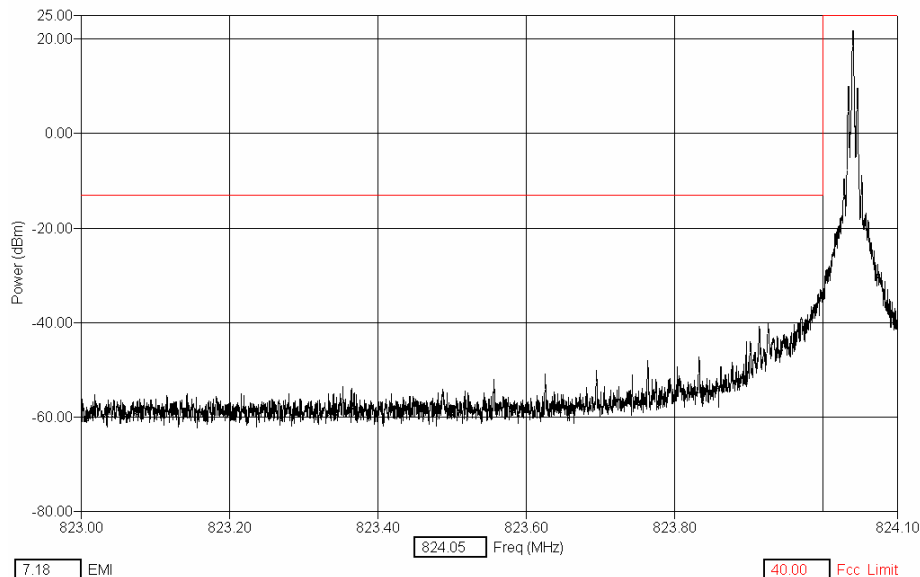
Band	Frequency Range (MHz)	FCC Limits (dBm)
Cellular 800, Low Channel	< 824	-13
Cellular 800, High Channel	> 849	-13
PCS 1900, Low Channel	< 1850	-13
PCS 1900, High Channel	> 1910	-13

6.3 Detailed Test Results

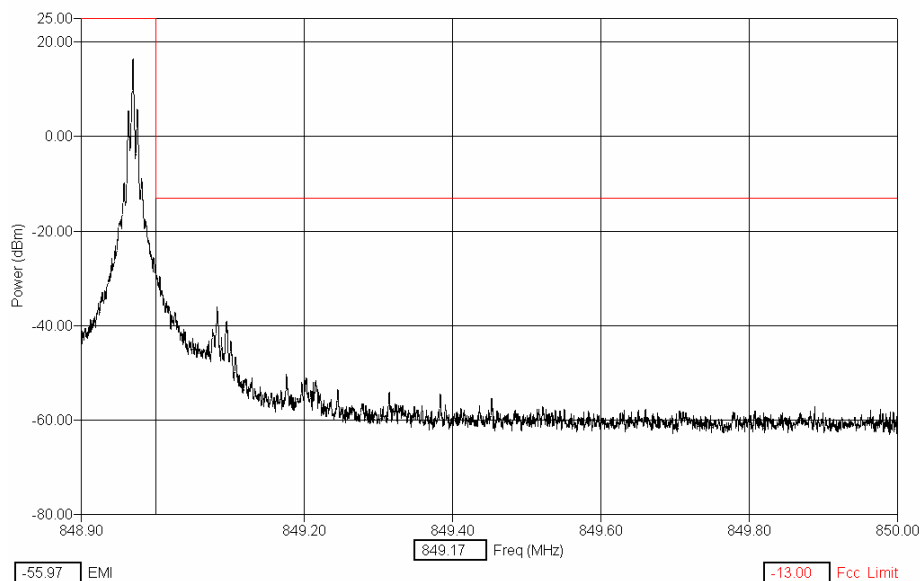
Test Technician / Engineer	Hai To
Date of Measurement	21-Oct-05
Temperature	24 °C
Humidity	45 %RH
Test Result	Complies with FCC Part 2.1049(c)(1), 24.238(a)(b)

Occupied Bandwidth, Out of Band

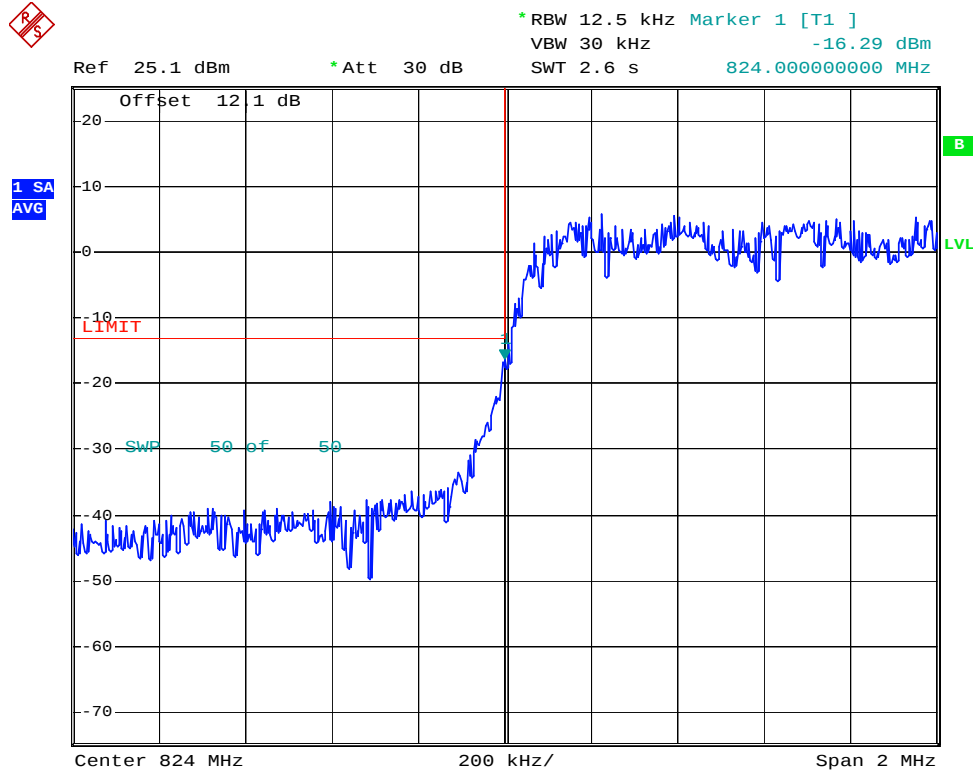
AMPS Max Power - Channel 991 (824.04 MHz)



AMPS Max Power - Channel 799 (848.97 MHz)

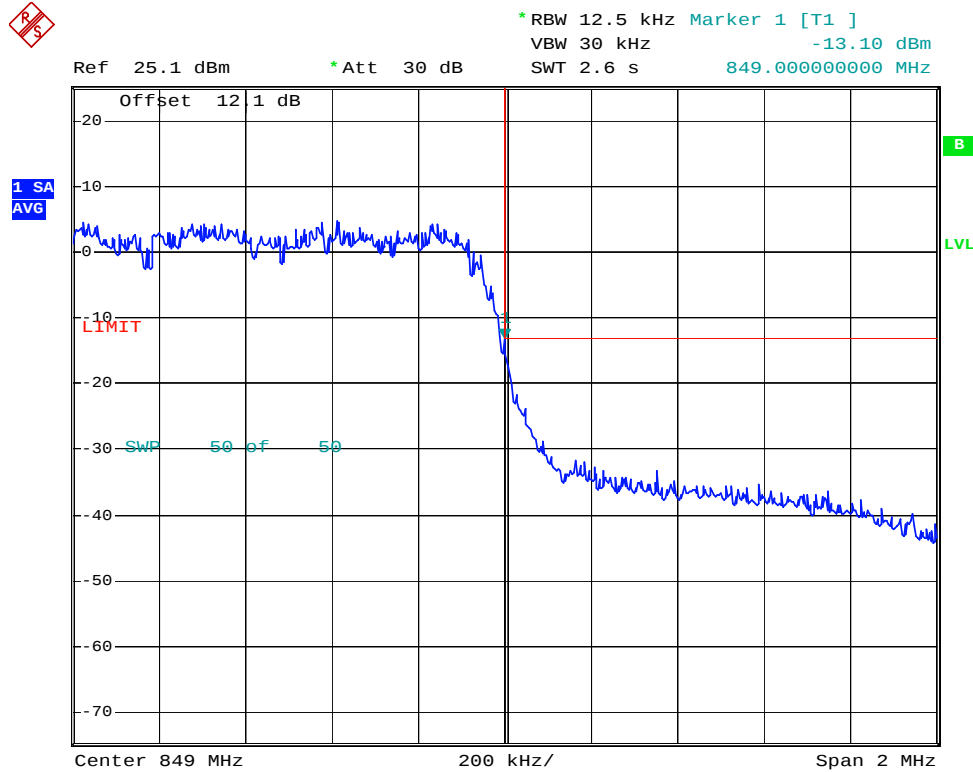


CDMA 800, Max Power - Channel 1013 (824.70 MHz)



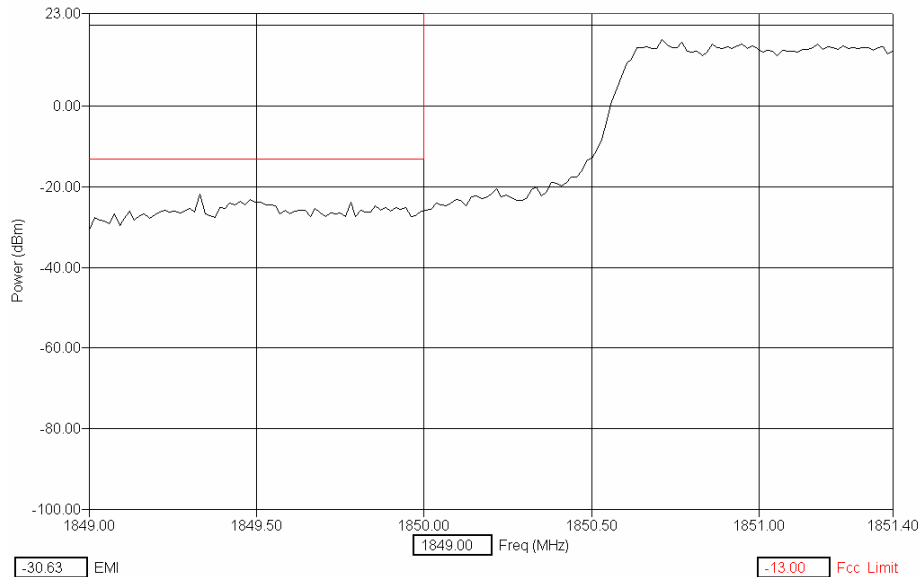
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CDMA 800, Max Power - Channel 777 (848.31 MHz)

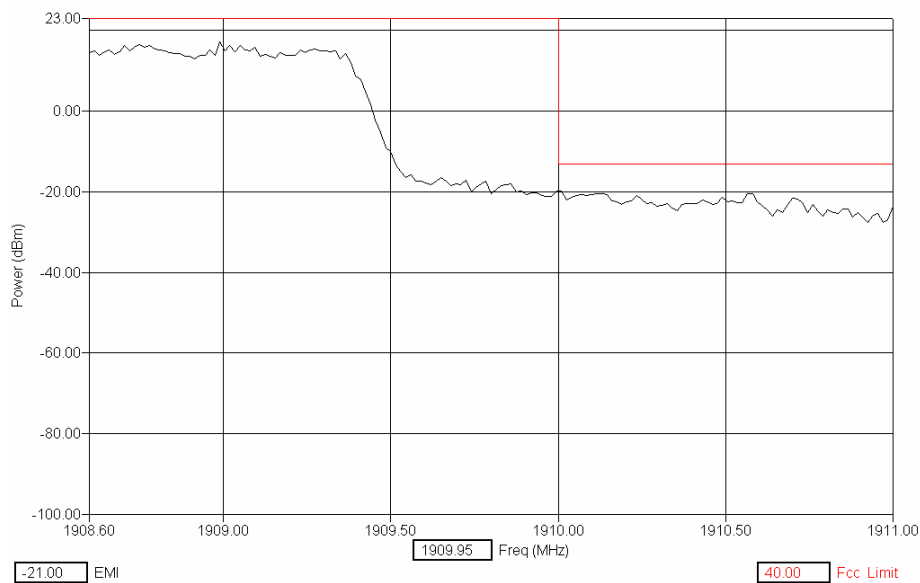


Date: 21.OCT.2005 14:43:35

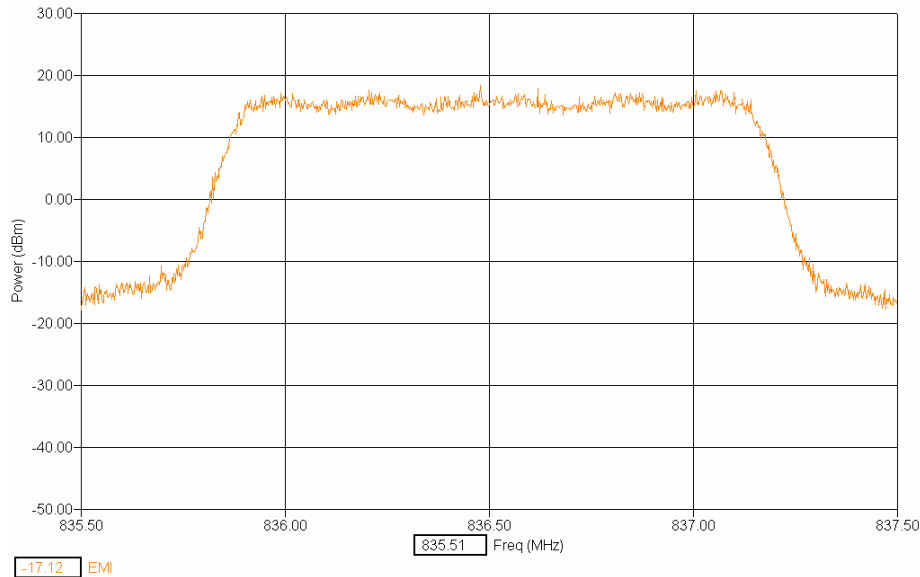
CDMA 1900, Max Power - Channel 25 (1850.04 MHz)



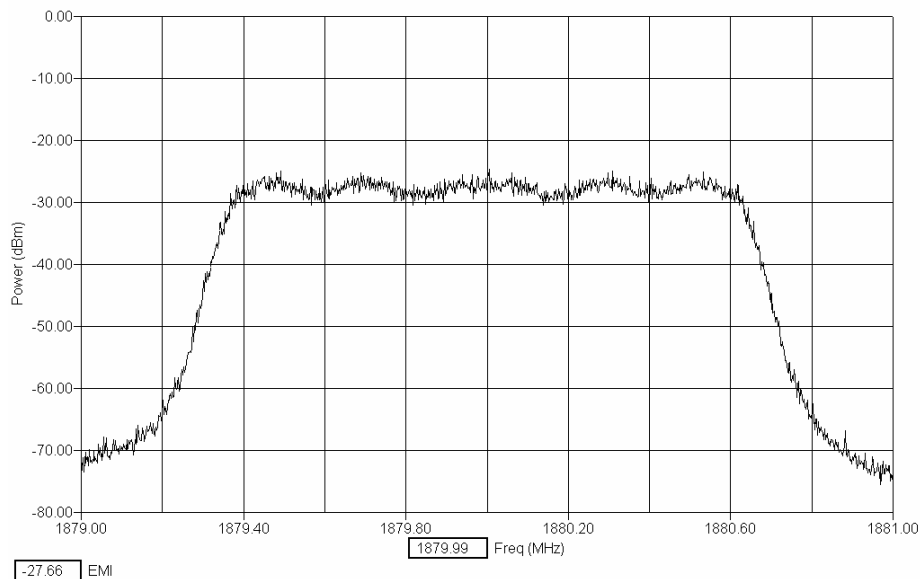
CDMA 1900, Max Power - Channel 1175 (1909.92 MHz)



CDMA 800 - Random Modulation, Channel 384



CDMA 1900 - Channel 600



7. SPURIOUS EMISSIONS AT ANTENNA TERMINALS

Specification: FCC Part 2.1051

7.1 Setup

Testing was performed with the EUT connected to a 6dB attenuator, 6dB splitter, filter bank and then to the EMI receiver. The base station simulator was connected to the other port of the splitter to establish a call. Filters were introduced to reduce or eliminate spurious emission, which could be generated internally in the EMI receiver.

7.2 Pass/Fail Criteria

Band	Frequency Range (MHz)	FCC Limits (dBm)
Cellular / PCS	30 – 20000 *	-13

* Frequency to be investigated up to the 10th harmonic of the highest clock or frequency used.

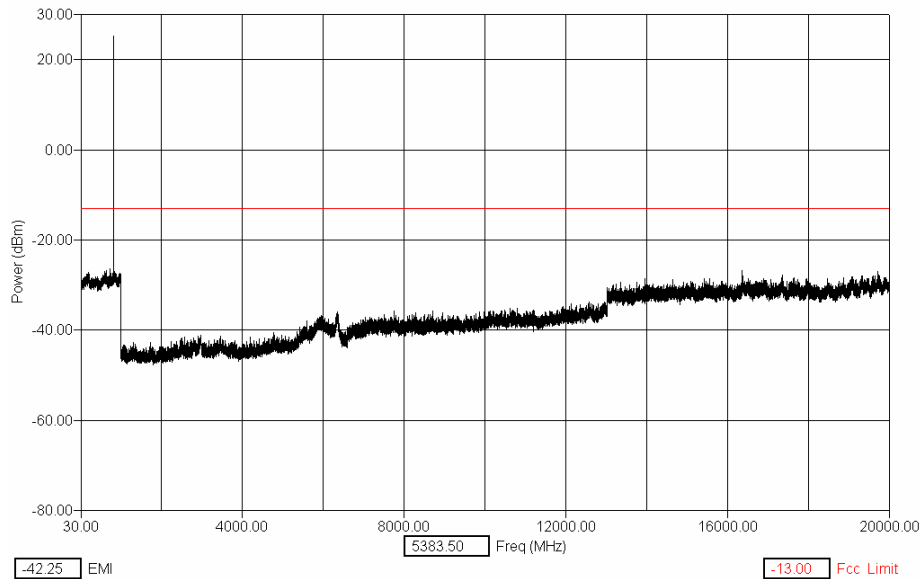
7.3 Detailed Test Results

Test Technician / Engineer	Hai To
Date of Measurement	21-Oct-05
Temperature	24 °C
Humidity	45 %RH
Test Result	Complies with FCC Part 2.1051

Note 1: EMI (dBm) = trace (dBuV) + cable loss (dB) + filter loss (dB).

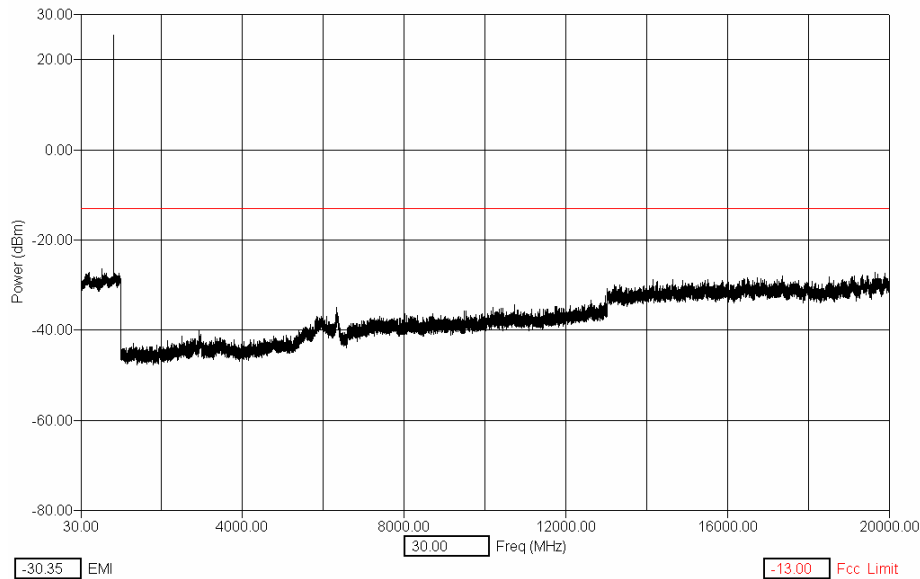
Note 2: measurements were performed with 3MHz RBW/VBW.

AMPS - Channel 991, 824.04 MHz



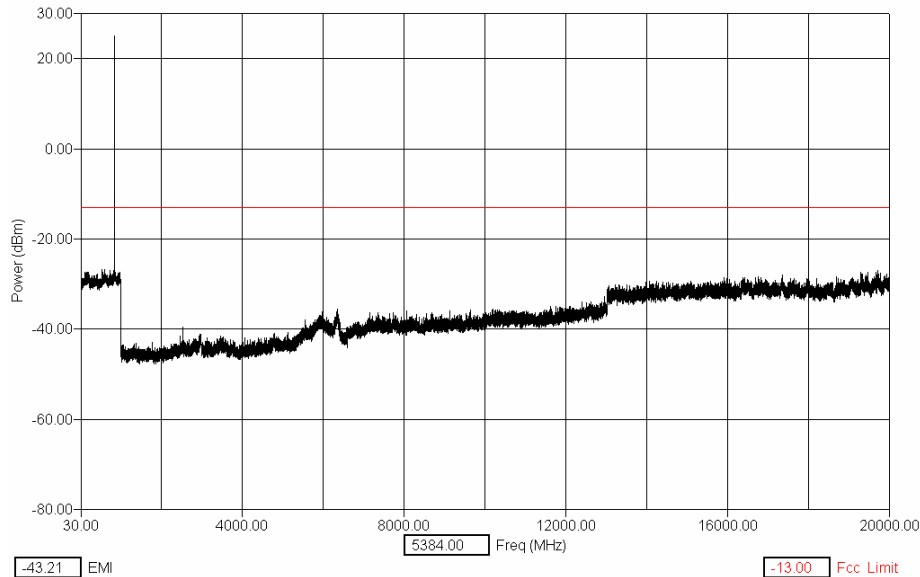
Freq (Max) (MHz)	(PEAK) Trace (dBm)	Cable (dB)	Filter (dB)	(PEAK) EMI (dBm)	Limit (dBm)
1649.9	-60.9	0.4	14.67	-45.8	-13.0
2472.0	-58.9	0.6	15.45	-42.8	-13.0
3296.1	-60.0	0.8	16.01	-43.2	-13.0
4120.1	-59.6	0.9	16.13	-42.6	-13.0
4944.9	-61.4	1.1	17.03	-43.4	-13.0
5769.7	-61.9	1.2	19.93	-40.8	-13.0
6592.8	-61.3	1.2	18.06	-42.0	-13.0
7418.3	-57.5	1.3	18.11	-38.1	-13.0
8240.2	-58.3	1.4	18.93	-37.9	-13.0

AMPS - Channel 384, 836.52 MHz



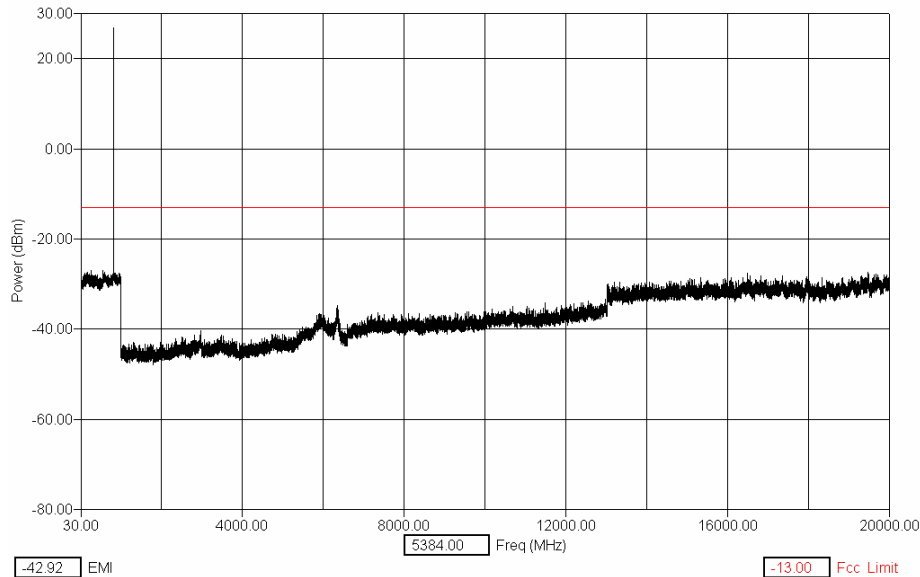
Freq (Max) (MHz)	(PEAK) Trace (dBm)	Cable (dB)	Filter (dB)	(PEAK) EMI (dBm)	Limit (dBm)
1672.0	-60.4	0.4	14.60	-45.5	-13.0
2509.6	-58.0	0.6	15.65	-41.7	-13.0
3346.0	-59.2	0.8	16.10	-42.4	-13.0
4182.5	-60.5	0.9	16.12	-43.5	-13.0
5017.7	-60.7	1.1	17.16	-42.5	-13.0
5856.8	-61.6	1.2	21.33	-39.1	-13.0
6690.6	-61.1	1.3	17.75	-42.1	-13.0
7529.1	-58.5	1.3	18.06	-39.1	-13.0
8365.0	-59.1	1.4	19.00	-38.7	-13.0

AMPS - Channel 799, 848.97 MHz



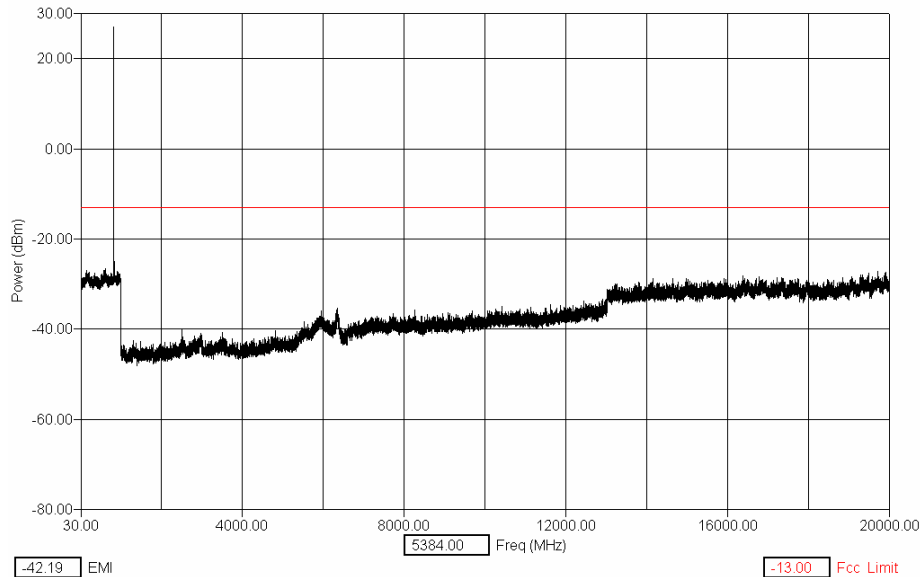
Freq (Max) (MHz)	(PEAK) Trace (dBm)	Cable (dB)	Filter (dB)	(PEAK) EMI (dBm)	Limit (dBm)
1696.7	-61.4	0.4	14.59	-46.4	-13.0
2547.0	-56.5	0.6	15.49	-40.4	-13.0
3395.9	-57.4	0.8	16.02	-40.5	-13.0
4244.7	-58.9	0.9	16.39	-41.6	-13.0
5094.9	-61.1	1.1	17.25	-42.7	-13.0
5941.3	-61.2	1.2	22.11	-37.9	-13.0
6789.9	-59.0	1.3	17.87	-39.9	-13.0
7638.9	-58.2	1.3	17.97	-38.9	-13.0
8488.3	-58.1	1.4	18.55	-38.2	-13.0

CDMA 800 - Channel 1013, 824.70 MHz



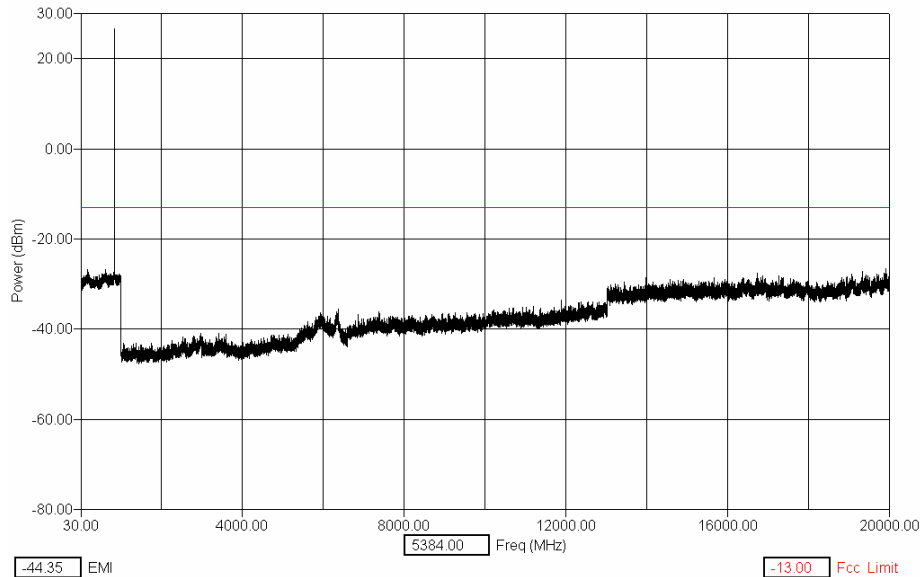
Freq (Max) (MHz)	(PEAK) Trace (dBm)	Cable (dB)	Filter (dB)	(PEAK) EMI (dBm)	Limit (dBm)
1648.8	-60.1	0.4	14.67	-45.0	-13.0
2474.1	-58.7	0.6	15.46	-42.7	-13.0
3299.6	-61.2	0.8	15.98	-44.4	-13.0
4124.5	-60.6	0.9	16.09	-43.6	-13.0
4949.9	-61.5	1.1	17.03	-43.4	-13.0
5771.2	-61.4	1.2	19.98	-40.3	-13.0
6597.0	-61.0	1.2	18.06	-41.7	-13.0
7422.8	-58.3	1.3	17.98	-39.0	-13.0
8247.5	-58.9	1.4	18.97	-38.6	-13.0

CDMA 800 - Channel 384, 836.52 MHz



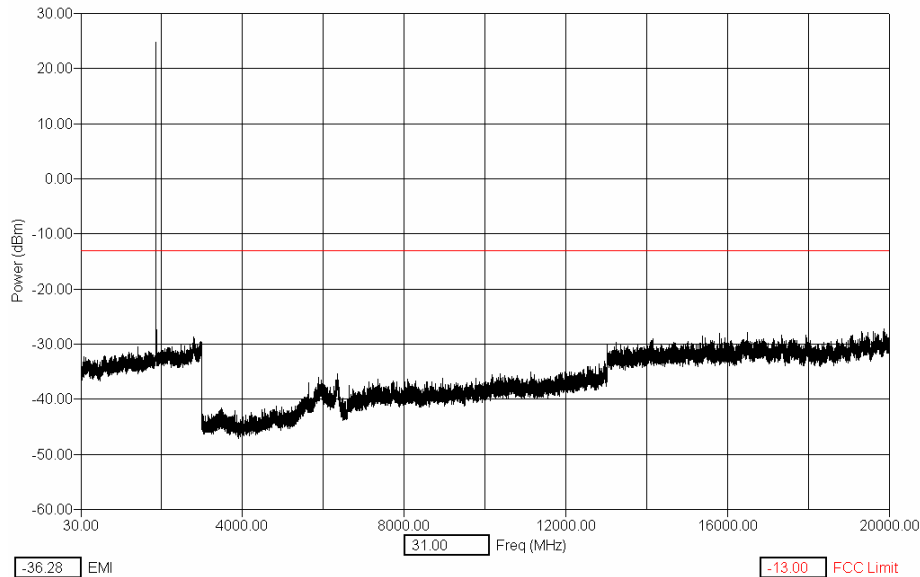
Freq (Max) (MHz)	(PEAK) Trace (dBm)	Cable (dB)	Filter (dB)	(PEAK) EMI (dBm)	Limit (dBm)
1673.5	-59.9	0.4	14.60	-44.9	-13.0
2510.1	-58.3	0.6	15.65	-42.1	-13.0
3346.5	-60.1	0.8	16.10	-43.3	-13.0
4183.7	-60.6	0.9	16.12	-43.5	-13.0
5019.0	-61.0	1.1	17.16	-42.7	-13.0
5854.8	-61.3	1.2	21.33	-38.8	-13.0
6690.9	-62.0	1.3	17.75	-43.0	-13.0
7530.6	-58.5	1.3	18.06	-39.1	-13.0
8366.8	-59.2	1.4	19.00	-38.8	-13.0

CDMA 800 - Channel 777, 848.31 MHz



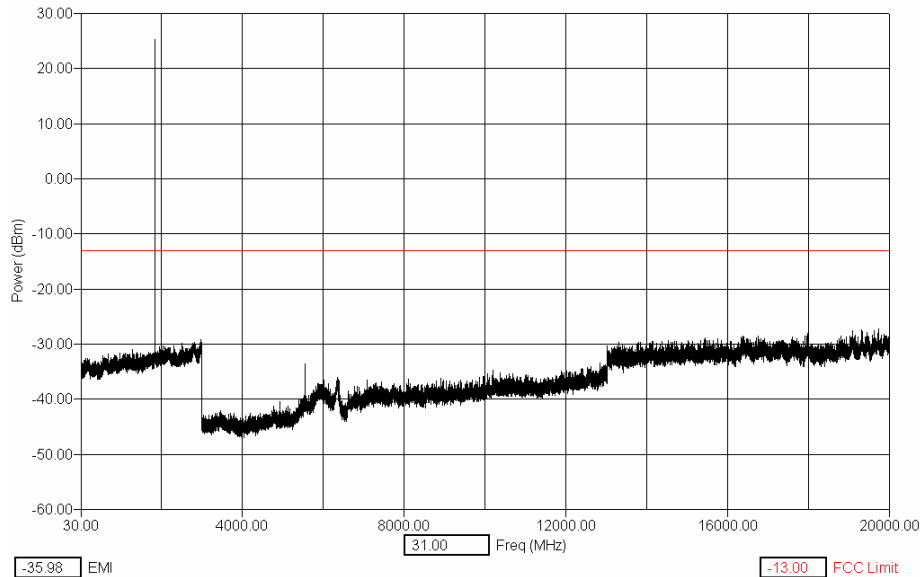
Freq (Max) (MHz)	(PEAK) Trace (dBm)	Cable (dB)	Filter (dB)	(PEAK) EMI (dBm)	Limit (dBm)
1697.5	-61.3	0.4	14.59	-46.3	-13.0
2545.8	-56.7	0.6	15.53	-40.6	-13.0
3392.2	-58.8	0.8	16.05	-42.0	-13.0
4241.4	-60.9	0.9	16.35	-43.6	-13.0
5091.4	-61.5	1.1	17.26	-43.2	-13.0
5938.4	-61.9	1.2	22.09	-38.7	-13.0
6785.5	-59.2	1.3	17.96	-40.0	-13.0
7634.6	-58.1	1.3	17.98	-38.7	-13.0
8482.3	-59.3	1.4	18.53	-39.3	-13.0

CDMA 1900 - Channel 600, 1880.00 MHz



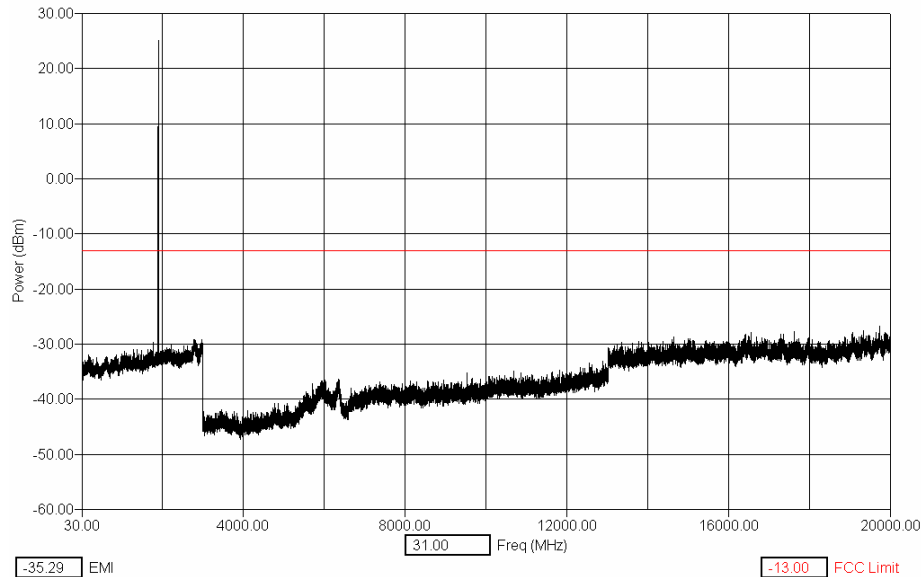
Freq (Max) (MHz)	(PEAK) Trace (dBm)	Cable (dB)	Filter (dB)	(PEAK) EMI (dBm)	Limit (dBm)
3760.9	-59.9	0.86	16.8	-42.3	-13.0
5639.8	-55.8	1.14	18.5	-36.1	-13.0
7520.8	-57.9	1.34	18.1	-38.4	-13.0
9400.7	-58.9	1.49	18.9	-38.5	-13.0
11279.8	-59.0	1.61	20.2	-37.1	-13.0
13159.0	-57.9	1.72	21.8	-34.4	-13.0
15041.9	-56.2	1.81	23.7	-30.7	-13.0
16919.2	-56.4	1.89	25.0	-29.5	-13.0
18798.7	-57.1	1.96	25.1	-30.1	-13.0

CDMA 1900 - Channel 25, 1851.25 MHz



Freq (Max) (MHz)	(PEAK) Trace (dBm)	Cable (dB)	Filter (dB)	(PEAK) EMI (dBm)	Limit (dBm)
3702.3	-62.0	0.85	16.2	-44.9	-13.0
5552.9	-52.1	1.13	18.4	-32.5	-13.0
7404.4	-57.4	1.32	18.4	-37.7	-13.0
9254.9	-58.5	1.48	19.5	-37.5	-13.0
11108.0	-58.3	1.60	20.2	-36.4	-13.0
12958.7	-58.9	1.71	22.6	-34.5	-13.0
14810.7	-55.0	1.80	22.8	-30.4	-13.0
16660.9	-55.5	1.88	23.8	-29.8	-13.0
18512.7	-57.4	1.95	24.9	-30.6	-13.0

CDMA 1900 – Channel 1175, 1908.75 MHz



Freq (Max) (MHz)	(PEAK) Trace (dBm)	Cable (dB)	Filter (dB)	(PEAK) EMI (dBm)	Limit (dBm)
3817.3	-60.6	0.87	16.7	-43.0	-13.0
5726.3	-57.6	1.15	19.4	-37.1	-13.0
7635.1	-57.3	1.35	18.0	-38.0	-13.0
9543.4	-58.0	1.50	20.3	-36.2	-13.0
11451.9	-58.2	1.62	20.5	-36.1	-13.0
13361.8	-54.8	1.73	22.0	-31.1	-13.0
15268.4	-56.5	1.82	23.3	-31.4	-13.0
17179.9	-56.9	1.90	24.3	-30.8	-13.0
19086.7	-57.3	1.97	26.3	-29.0	-13.0

8. EMISSIONS IN RECEIVER CRITICAL BAND

Specification: FCC Part 22.917(f)

8.1 Setup

Testing was performed with the EUT connected to a 6dB attenuator, 6dB splitter, filter bank and then to the EMI receiver. The base station simulator was connected to the other port of the splitter to establish a call. Filters were introduced to reduce or eliminate spurious emission, which could be generated internally in the EMI receiver.

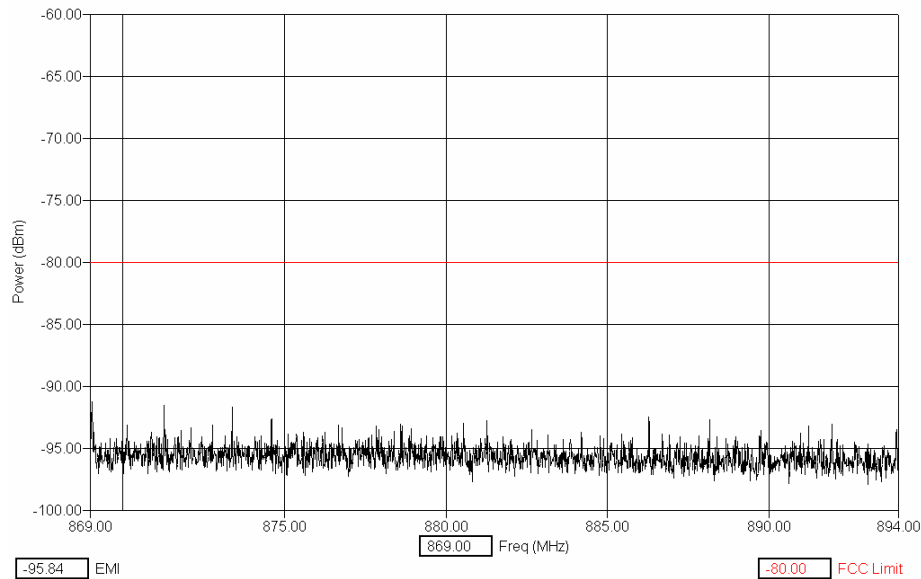
8.2 Pass/Fail Criteria

Band	Frequency Range (MHz)	FCC Limits (dBm)
Cellular	869 - 894	-80

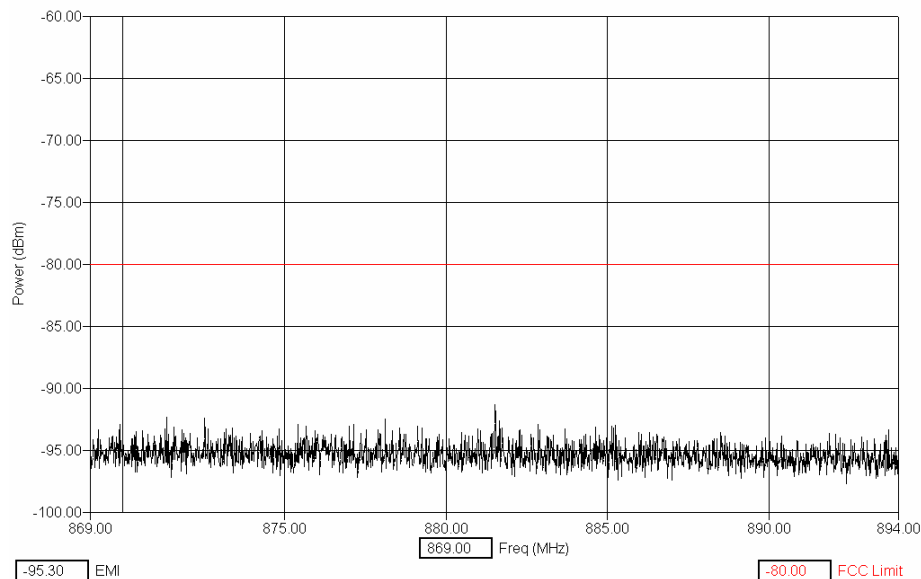
8.3 Detailed Test Results

Test Technician / Engineer	Michael Sundstrom
Date of Measurement	20-Oct-05
Temperature	24 °C
Humidity	30 %RH
Test Result	Complies with FCC Part 22.917(f)

AMPS, Channel 991

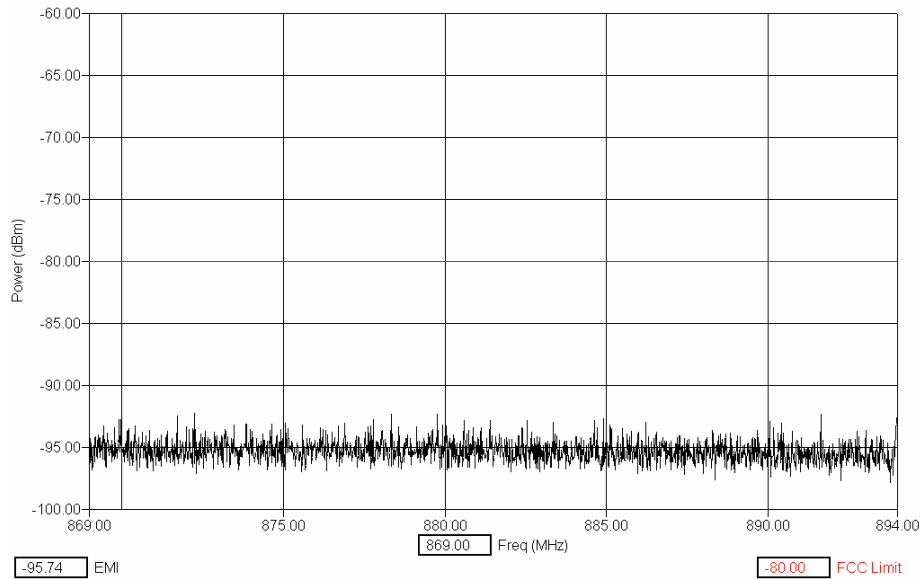


AMPS, Channel 384

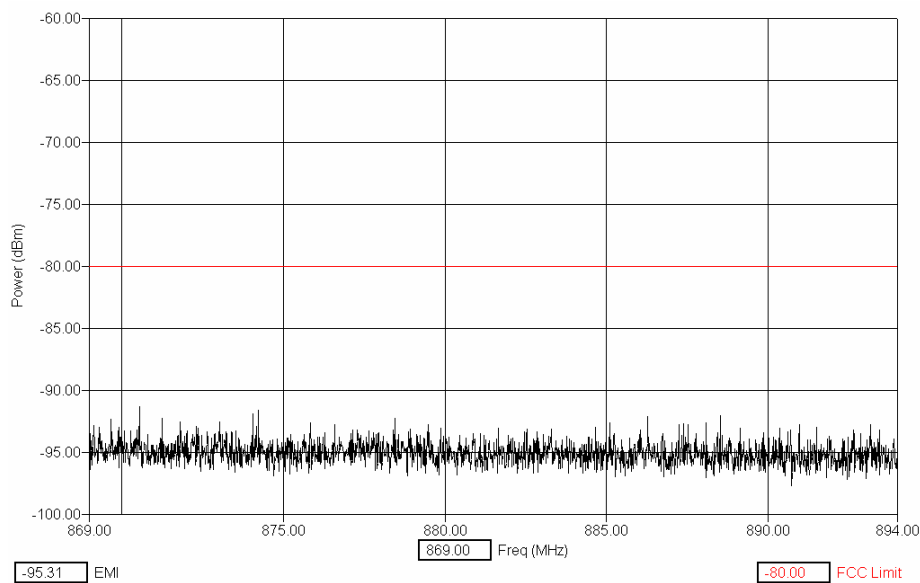


Test & Certification Center (TCC) - Dallas

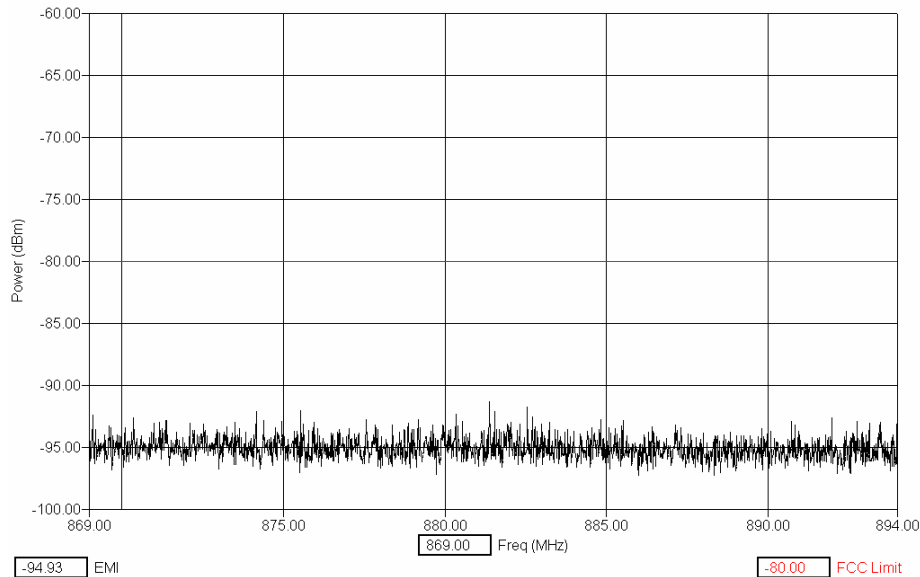
AMPS, Channel 799



CDMA 800, Channel 1013

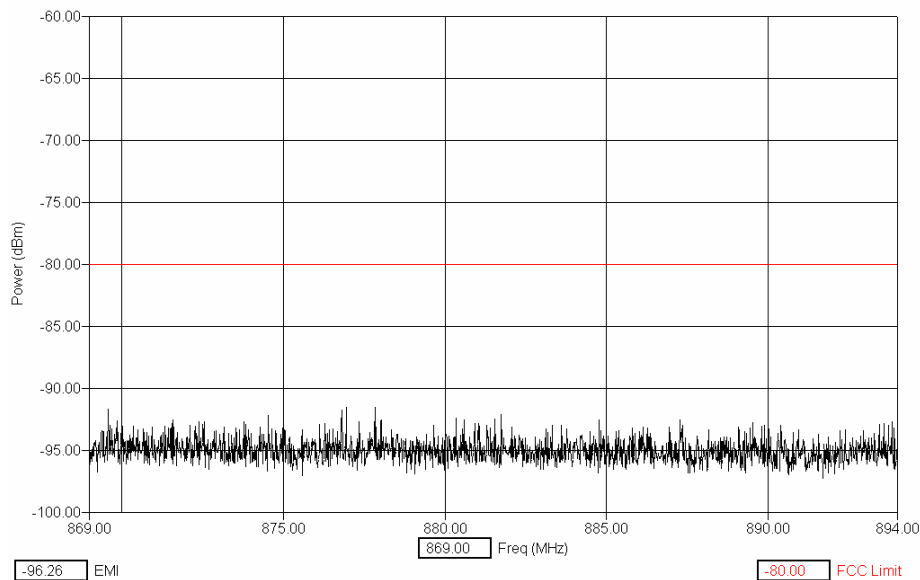


CDMA 800, Channel 384



CDMA 800, Channel 777

30 kHz RBW/VBW, 100ms Sweep Time



9. FCC PART 2.1055(A)(1)(B), 24.235, FREQUENCY STABILITY (TEMPERATURE VARIATION)

Specification: FCC Part 2.1055(a)(1)(b), 24.235

9.1 Setup

The EUT was connected to the base station simulator to measure the RF power output.

9.2 Pass/Fail Criteria

Not Applicable

9.3 Detailed Test Results

Test Technician / Engineer	Michael Sundstrom
Date of Measurement	21, 24 Oct 05
Temperature	22 °C
Humidity	41%RH
Test Result	Tested in accordance with 2.1055(a)(1)(b), 24.235 at maximum power setting.

Temp. (°C)	AMPS, Channel 384	CDMA 800, Channel 384	CDMA 1900, Channel 600
	Change (Hz)	Change (Hz)	Change (Hz)
-30	-228	14	28
-20	-231	13	-26
-10	-233	13	29
0	-203	14	29
10	-231	13	29
20	-220	14	28
30	-207	12	28
40	-219	12	26
50	-225	13	31

10. FCC PART 2.1055(D)(1)(2), 24.235, FREQUENCY STABILITY (VOLTAGE VARIATION)

Specification: FCC Part 2.1055(d)(1)(2), 24.235

10.1 Setup

The EUT was connected to the base station simulator to measure the RF power output.

10.2 Pass/Fail Criteria

Not Applicable

10.3 Detailed Test Results

Test Technician / Engineer	Michael Sundstrom
Date of Measurement	24 Oct 05
Temperature	22°C
Humidity	41 %RH
Test Result	Tested in accordance with 2.1055(d)(1)(2), 24.235 at maximum power setting.

AMPS, Call Mode, Channel 384

% of STV	Voltage	Change (Hz)
85	3.2	-227
100 (Nominal)	3.7	-203
115	4.2	-220

CDMA 800, Call Mode, Channel 384

% of STV	Voltage	Change (Hz)
85	3.2	12
100 (Nominal)	3.7	14
115	4.2	13

CDMA 1900, Call Mode, Channel 600

% of STV	Voltage	Change (Hz)
85	3.2	29
100 (Nominal)	3.7	28
115	4.2	31