



## **TEST REPORT FOR CERTIFICATION**

**Test Report:** 2005 050777-FCC  
**FCC ID:** SELTSM102

**Equipment Under Test:** Single Band Mobile Phone  
**Model:** CV111-VTL102

**Applicant:** VITELCOM MOBILE TECHNOLOGY U.S.A.  
2480 Irvine Boulevard #172  
Tustin, California 92782  
714.389.1169

**In Accordance With:** FCC Part 22, Subpart H

**Tested By:** Nemko USA Inc.  
11696 Sorrento Valley Road  
San Diego, CA 92121-1024

**Date:** September 21, 2005

**Total Number of Pages:** 32



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## Section 1. Summary of Test Results

### General:

All measurements are traceable to national standards.

These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with FCC Part 22.

### DOCUMENT HISTORY

REVISION	DATE	COMMENTS
-	September 21, 2005	Prepared By: A. Laudani
-	September 21, 2005	Initial Release: C. Fleury
	January 26, 2006	Prepared By: A. Laudani

NOTE: Nemko USA, Inc. hereby makes the following statements so as to conform to Chapter 10 (Test Reports) Requirements of ANSI C63.4 (1992) "Methods and Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz":

- o The unit described in this report was received at Nemko USA, Inc.'s facilities on **March 7, 2005** . Testing was performed on the unit described in this report on **March 7, 2005** to March 7, 2005 .
- o Retest for Revision A occurred for conducted RF power and frequency stability May 3, 2005.
- o The Test Results reported herein apply only to the Unit actually tested, and to substantially identical Units.
- o This report does not imply the endorsement of the Federal Communications Commission (FCC), NVLAP or any other government agency.

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## **CERTIFICATION**

Nemko USA, Inc., an independent Electromagnetic Compatibility (EMC) Test Laboratory, produced this Test Report and performed the Radio Frequency Interference (RFI) testing and data evaluation contained herein.

Nemko USA, Inc.'s measurement facility is currently registered with the United States Federal Communications Commission (FCC) in accordance with the provisions of 47 United States Code (CFR) Part 2, Subpart I, Section 2.948(a). A current description of Nemko USA, Inc.'s measurement facility is on file with the FCC. Nemko USA Inc. has additionally satisfied the FCC that it complies with the requirements set forth in 47 CFR Part 2, Subpart I, Section 2.948(d) regarding the accreditation of EMC laboratories. As a result, the FCC has placed Nemko USA Inc. on its list of EMC laboratories approved to perform Declaration of Conformity (DOC) procedure testing.

The RFI testing, test data collection and test data evaluation were accomplished in accordance with the ANSI C63.4:2001 Standard, and in accordance with the applicable sections of the FCC rules (47 CFR Parts 2 and 18)." digital devices. The testing was also accomplished in accordance with Industry Canada's ICES-003 standard for unintentional radiating device per EMCAB-3, Issue 3 (May 1998). The administrative summary of this test report provides a description of the test sample

I hereby certify that the test data, test data evaluation, and equipment configurations used to compile this test report are a true and accurate representation of the test sample's radio frequency interference characteristics as of the test date(s), and, for the design of the test sample.

Chip Fleury

Chip Fleury, Frontline manager

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**Summary Of Test Data**

<b>Name Of Test</b>	<b>Para. No.</b>	<b>Result</b>
RF Power Output	2.1046	Complies
Audio Frequency Response	2.1047	NA <sup>1</sup>
Audio Low Pass Filter Response	2.1047	NA <sup>1</sup>
Modulation Limiting	2.1047	NA <sup>1</sup>
Occupied Bandwidth (WB Data )	2.1049	Complies
Spurious Emissions at Antenna Terminals	2.1051	Complies
Field Strength of Spurious Emissions	2.1053	Complies
Frequency Stability	2.1055	Complies

Footnotes For N/A's: <sup>1</sup> Digital Modulation



## Section 2. General Equipment Specification

Manufacturer: **VITELCOM MOBILE TECHNOLOGY U.S.A.**

Model No.: **CV111-VTL102**

Serial No.: N/A

Antenna Model: FR01-B1-CK-0-036

Date Received In Laboratory: **September 19, 2005**

Nemko Identification No.: 25-777-VIT

Frequency Ranges: 824.7 – 848.31 MHz

RF Output (Limit): Part 22: 7 Watts

RF Output (Measured): Part 22: 0.17 Watts

Emission Designators: 1M28F9W

FCC Identifier: SELTSM102



### Section 3. RF Power Output

Para. No.: 2.1046

<b>Test Performed By:</b> A. Laudani	<b>Date of Test:</b> 9-19-05
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**Minimum Standard:** Para. 22.913(a). The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

Radiated RF Power

**Test Results:** Complies, see tables below.

#### Measurement Data:

Radiated

Modulation	Frequency (MHz)	Measured (dBm)	Substituted Result (dBm)	Substituted Result Watts
CDMA	824.70	28.9	23.6	0.23
	836.49	30.2	22.1	0.16
	848.31	31.6	23.9	0.26



NEMKO USA, Inc.

Substitution Method For Radiated Emissions

Job #: 25-777-VIT Test #: 2
Page 1 of 1

Client Name: VITELCOM MOBILE TECHNOLOGY U.S.A.
EUT Name: CDMA 800 Cellular Phone
EUT Model #: CV111-VTL102
EUT Part #:
EUT Serial #:
EUT Config.:
Specification: CDMA TX
FCC Part 22 Reference:
Rod. Ant. #: NA Temp. (deg. C): 19 Date: 9/19/2005
Bicon Ant. #: NA Humidity (%): 73 Time:
Log Ant. #: 112 EUT Voltage: na Staff: A. Laudani
DRG Ant. #: 529 EUT Frequency: dc Photo ID:
Dipole Ant. #: NA Phase: na Peak Bandwidth: RBW-1MHz, VBW-1MHz
Cable#: 60ft Location: RN#: 90579
Preamp#: 842 Distance: 3m
Spec An. #: 835

Table with 8 columns: Frequency, target level, Dipole Gain, cable loss, Signal Generator, Total (EIRP), Spec, Margin. Rows for frequencies 824.70, 836.49, 848.37.

Table with 8 columns: Frequency, target level, Horn Gain, cable loss, Signal Generator, Total (EIRP), Spec, Margin. Rows for frequencies 1649.4, 1672.98, 1695.62, 2544.93.





Radiated Emissions Data

Job #: 25-777-VIT Page 1 of 1 Test #: 1 of 1

Client Name: VITELCOM MOBILE TECHNOLOGY U.S.A.
EUT Name: CDMA 800 Cellular Phone
EUT Model #: CV111-VTL102
Specification: FCC Part 22
Reference: Date: 9/19/05
Time: 10:30 AM
Staff: A. Laudani
Photo ID:
Peak Bandwidth: 1 MHz
Video Bandwidth: 1 MHz

Table with 11 columns: Meas. Freq. (MHz), Vertical (dBuV) pk, Horizontal (dBuV) pk, CF (db), Max Level (dBm) pk, Spec. Limit (ERP) (dBm) pk, Margin dB pk, EUT Rotation, Ant. Height, Pass Fail Unc., Comment. Rows include frequency measurements and pass/fail status.

NS = Not seen, even at a lower RBW

NF = Noise Floor measurement.



Conducted ERP

<b>Test Performed By:</b> A. Laudani	<b>Date of Test:</b> 1-25-06
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Modulation	Frequency (MHz)	Measured (dBm)	Gain (dB)	ERP (dBm)	Result Watts
CDMA	824.70	24.5	-4.5	20.0	0.10
	836.52	24.4	-2.7	21.7	0.15
	848.30	24.4	-2.1	22.3	0.17

ERP = Measured + Antenna Gain

Gain: see Antenna Specification FR01-B1-CK-0-036 Rev. A

Conducted measurements using Booton Power Meter #887, 888



## Section 4. Audio Frequency Response

Para. No.: 2.1047

<b>Test Performed By:</b>	<b>Date of Test:</b>
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**Minimum Standard:** Para. No. 15-19-B.

**Test Results:** Not Applicable, digital modulation

**Measurement Data:**



**Section 5. Audio Low-Pass Filter Response**

**Para. No.: 2.1047**

<b>Test Performed By:</b>	<b>Date of Test:</b>
---------------------------	----------------------

**Minimum Standard:** Para. No. 22.915 (d).

**Test Results:** Not Applicable, digital modulation

**Measurement Data:**

- d) Audio filter characteristics. Except as provided in Sec. 22.917, radiotelephony signals applied to the modulator from the modulation limiter must be attenuated as a function of frequency as specified in this paragraph.
  - (1) For mobile stations, these signals must be attenuated, relative to the level at 1 kHz, as follows:
    - (i) In the frequency ranges of 3.0 to 5.9 kHz and 6.1 to 15.0 kHz, signals must be attenuated by at least  $40 \log(f/3)$  dB, where  $f$  is the frequency of the signal in kHz.
    - (ii) In the frequency range of 5.9 to 6.1 kHz, signals must be attenuated at least 35 dB.
    - (iii) In the frequency range above 15 kHz, signals must be attenuated at least 28 dB.



**Section 6. Modulation Limiting**

**Para. No.: 2.1047**

<b>Test Performed By:</b>	<b>Date of Test:</b>
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**Minimum Standard:** 22.915(b)

**Test Results:** Not Applicable, digital modulation

**Measurement Data:**

SAT Deviation:  
WB Data Deviation:  
ST Deviation:



**Section 7. Occupied Bandwidth**

**Para. No.: 2.1049**

<b>Test Performed By: A. Laudani</b>	<b>Date of Test: 10-17-05</b>
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**Minimum Standard:** 22.917(d)

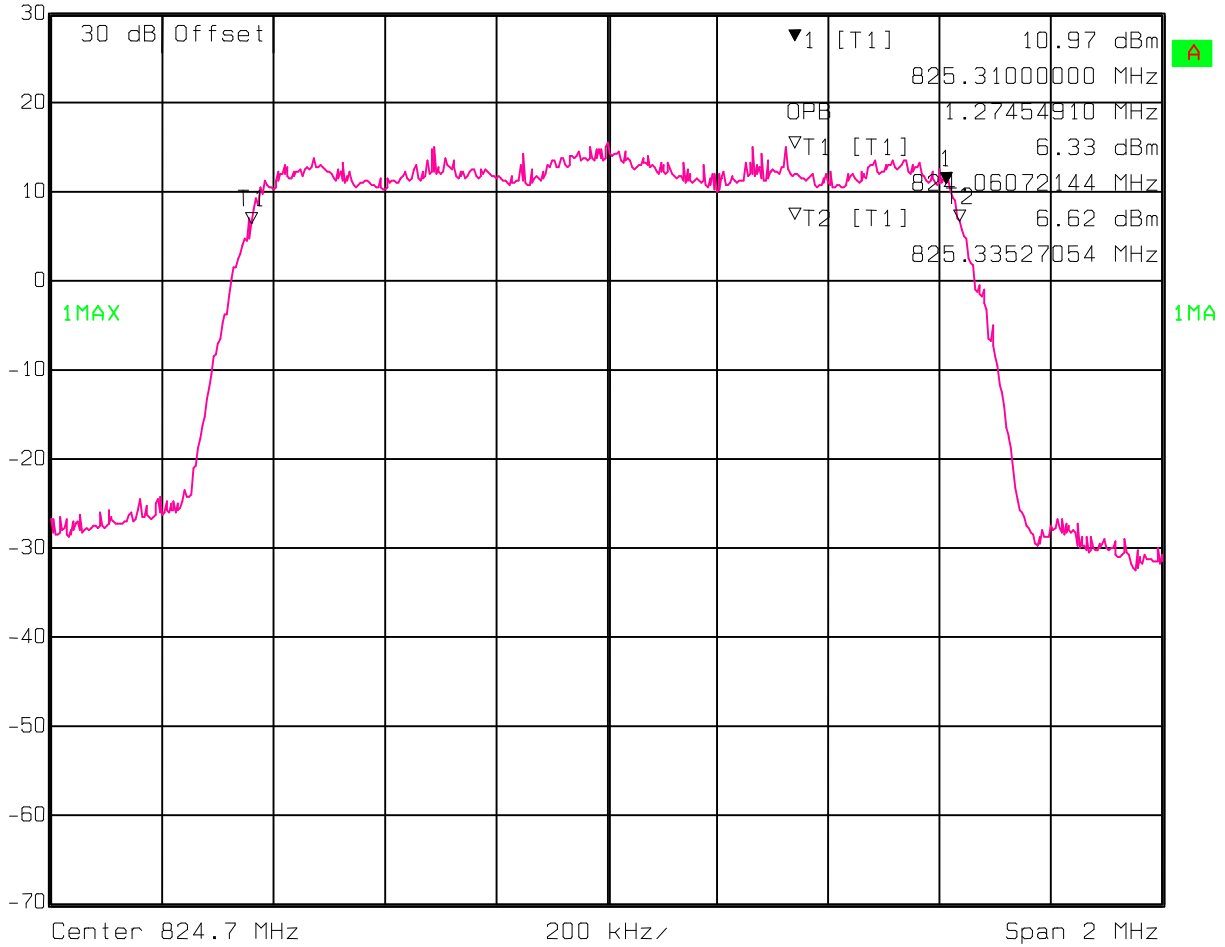
**Test Results:** Low Channel – 1.27 MHz  
Mid Channel – 1.28 MHz  
High Channel – 1.28 MHz

**Test Data:** See plots below.



Low Channel 1013 – 824.7 MHz

Marker 1 [T1] RBW 30 kHz RF Att 30 dB  
 Ref Lvl 10.97 dBm VBW 30 kHz  
 30 dBm 825.3100000 MHz SWT 125 ms Unit dBm

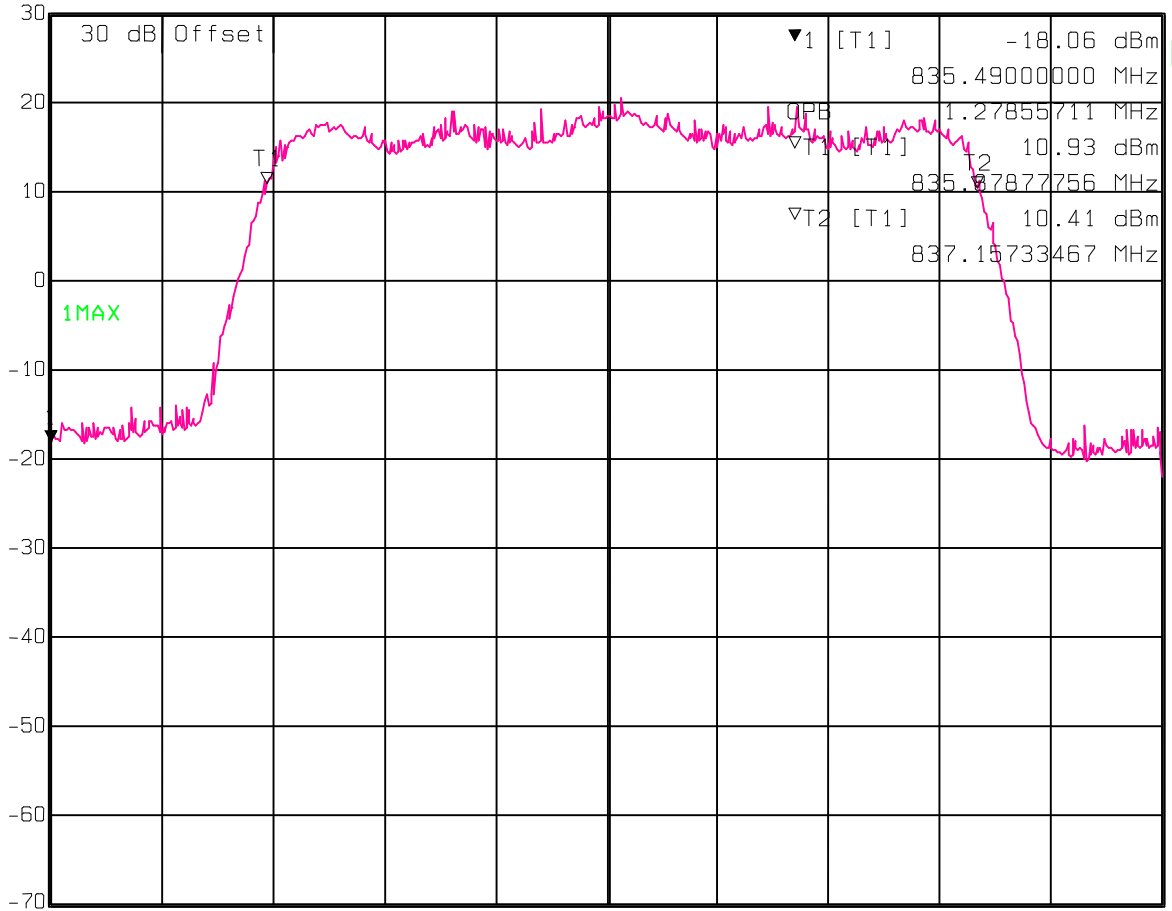


Date: 17.OCT.2005 14:47:47



Mid Channel 834 --- 836.49 MHz

Marker 1 [T1] RBW 30 kHz RF Att 30 dB  
 Ref Lvl -18.06 dBm VBW 30 kHz  
 30 dBm 835.4900000 MHz SWT 125 ms Unit dBm



Center 836.49 MHz 200 kHz Span 2 MHz

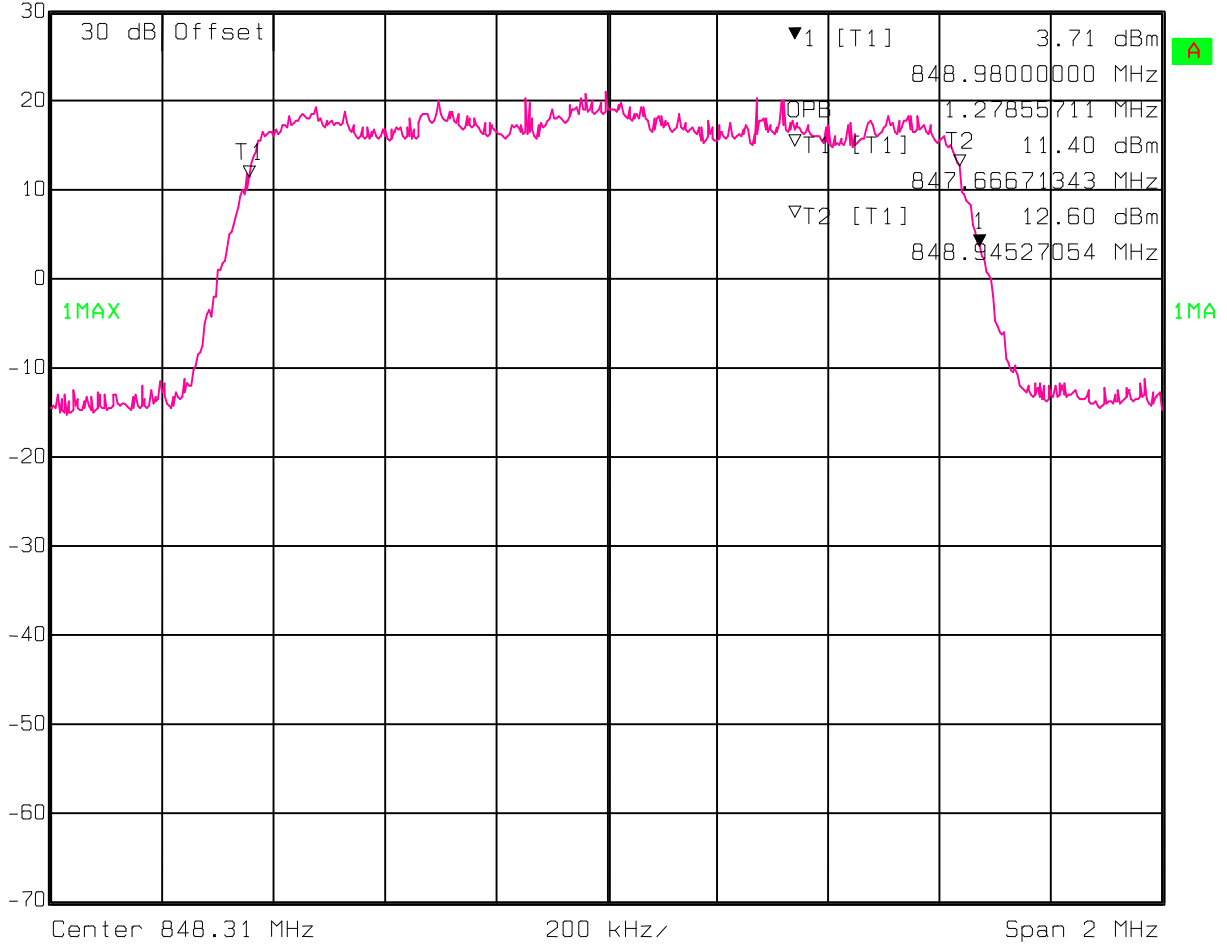
Date: 17.OCT.2005 14:48:41





High Channel 777 – 848.37 MHz

Ref Lvl	30 dBm	Marker 1 [T1]	848.98000000 MHz	3.71 dBm	RBW	30 kHz	RF Att	30 dB
					VBW	30 kHz		
					SWT	125 ms	Unit	dBm



Date: 17.OCT.2005 14:50:06



## Section 8. Spurious Emissions At Antenna Terminals

Para. No.: 2.1051

<b>Test Performed By:</b> A. Laudani	<b>Date of Test:</b> 9-19-05/10-1-05
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**Minimum Standard:** Para. No. 22.917(b).

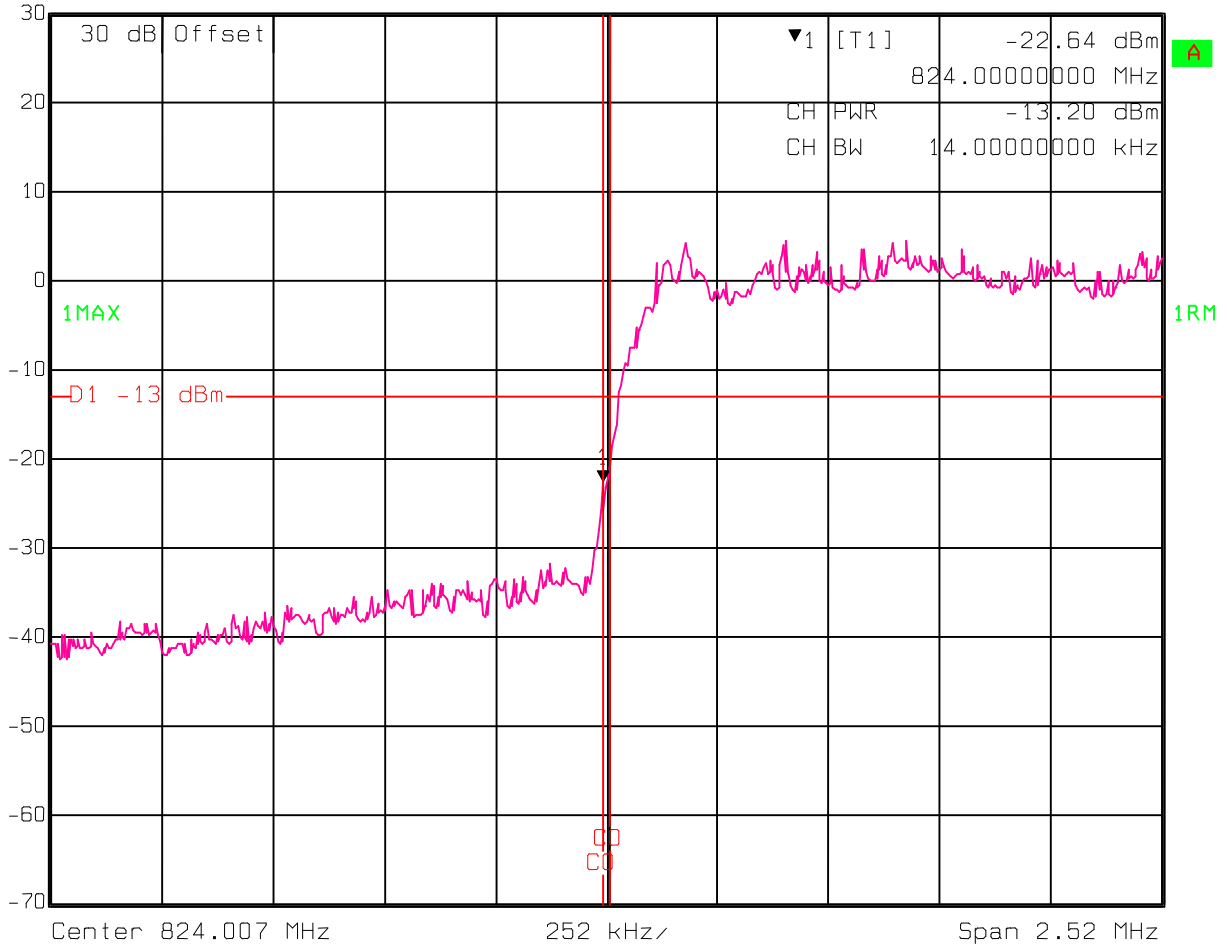
**Test Results:** From 30 MHz to 10 times the transmit frequency or 9000 MHz,  
Bandedge measurements (pages 22-25) show compliance.  
Out of band Spurious (pages 26-28) show compliance.  
No Emissions within 20 dB of the Limit were found.

**Test Data:** See plots below.

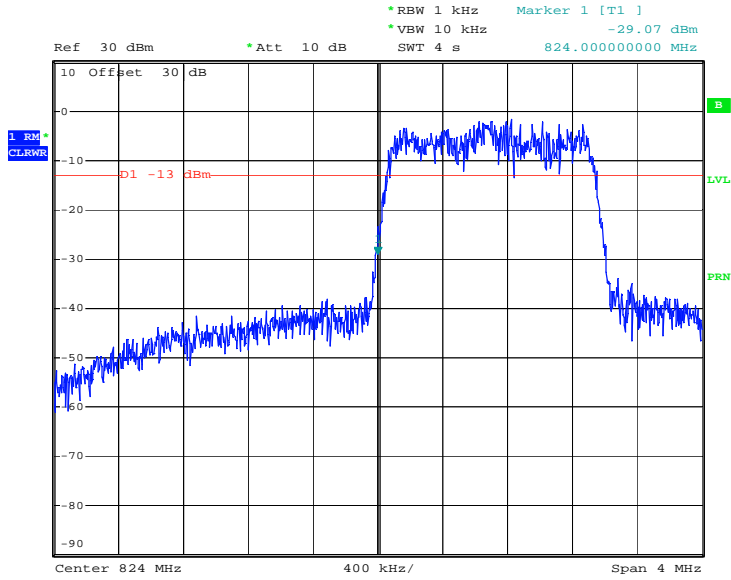


Lower Band Edge

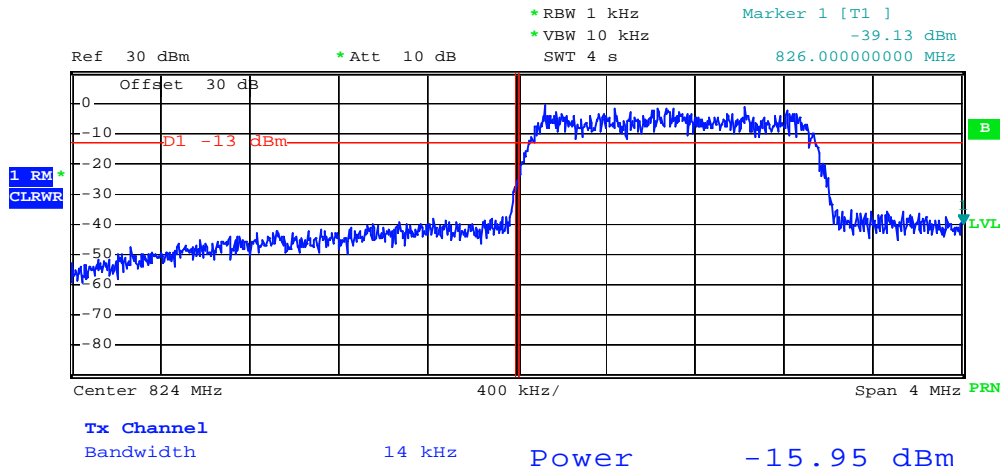
Marker 1 [T1] RBW 1 kHz RF Att 30 dB  
 Ref Lvl -22.64 dBm VBW 1 kHz  
 30 dBm 824.0000000 MHz SWT 125 ms Unit dBm



Date: 17.OCT.2005 14:55:17



Date: 3.OCT.2005 16:05:16

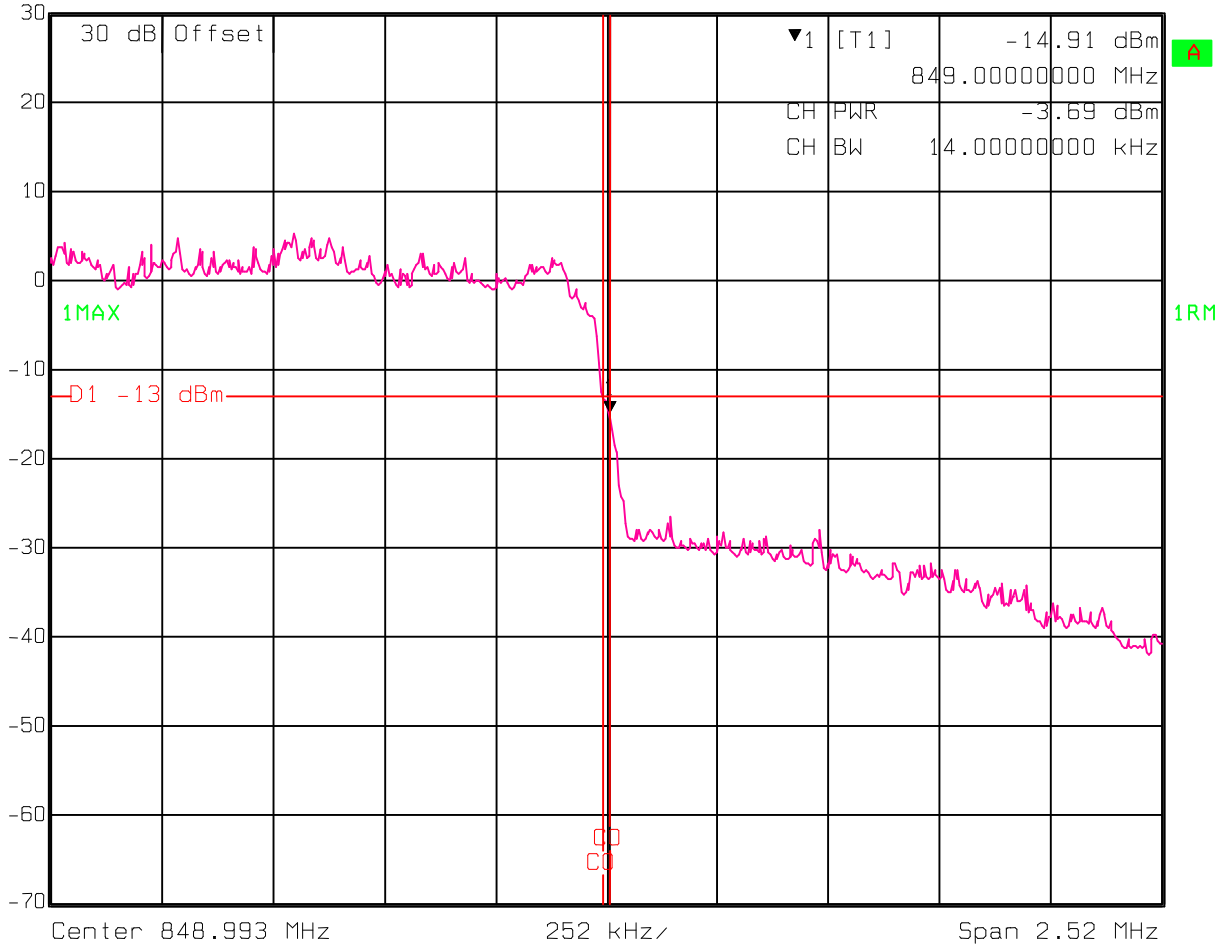


Date: 3.OCT.2005 16:04:25

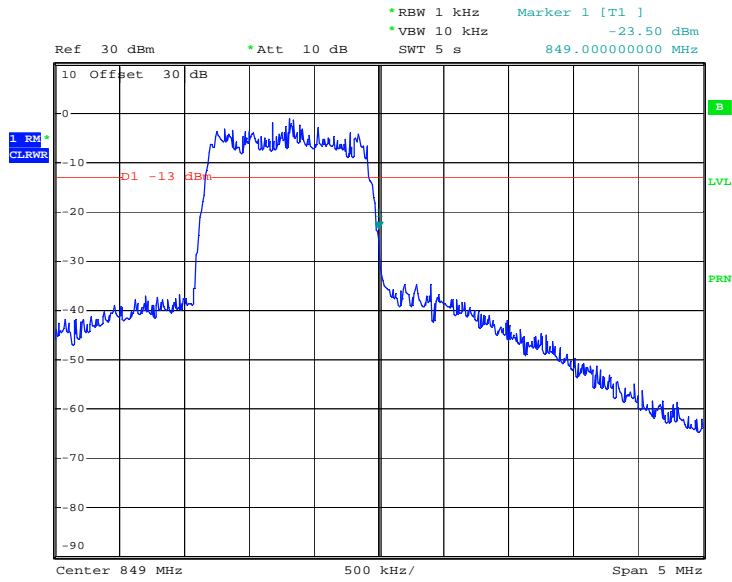


Upper Band Edge

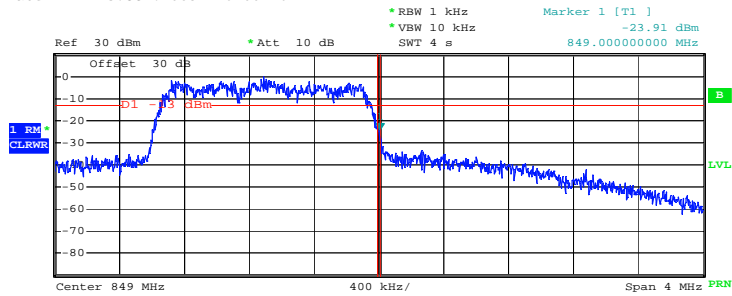
Marker 1 [T1] RBW 1 kHz RF Att 30 dB  
 Ref Lvl -14.91 dBm VBW 1 kHz  
 30 dBm 849.00000000 MHz SWT 125 ms Unit dBm



Date: 17.OCT.2005 14:54:08



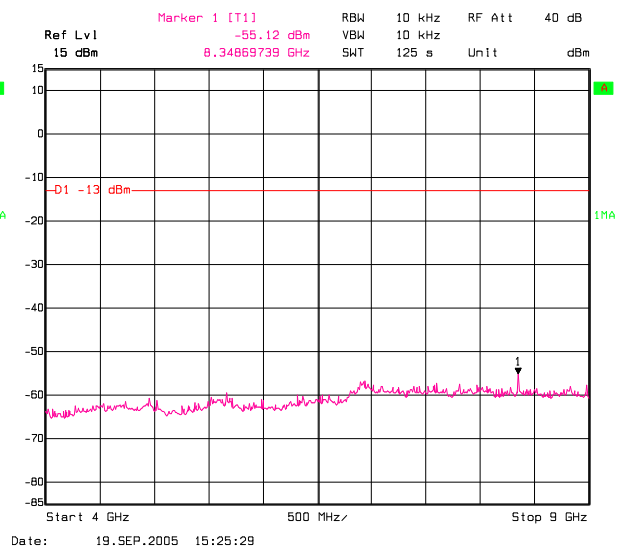
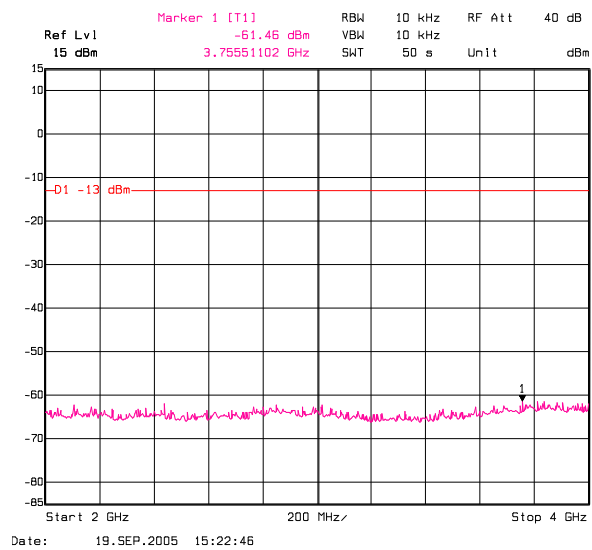
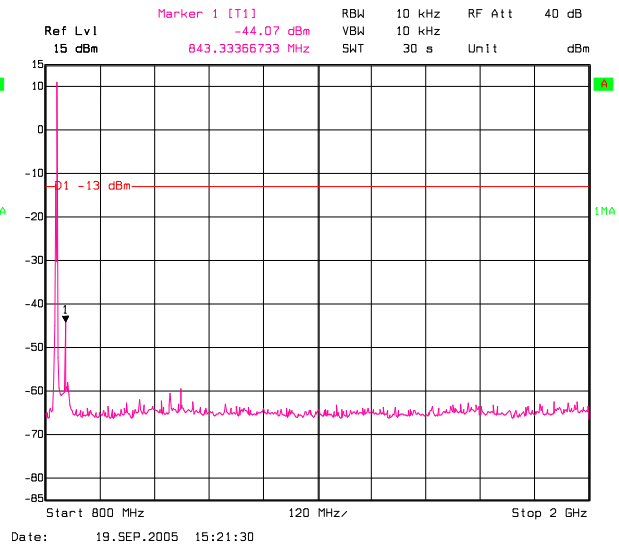
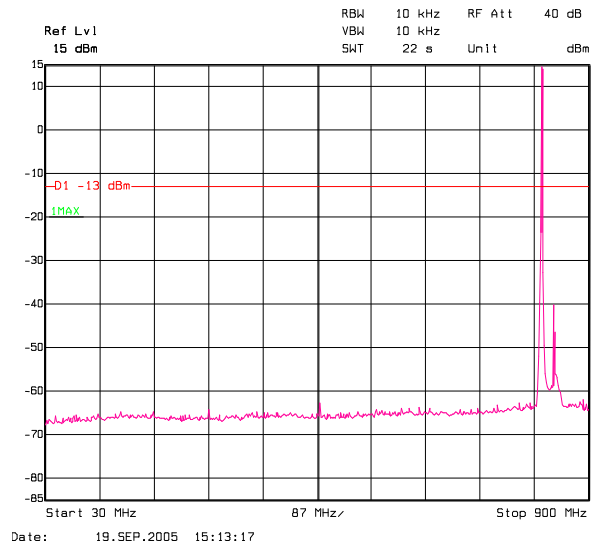
Date: 3.OCT.2005 16:00:26



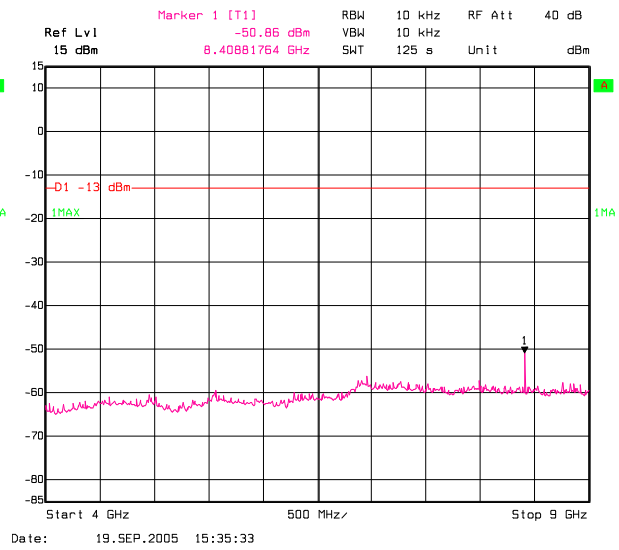
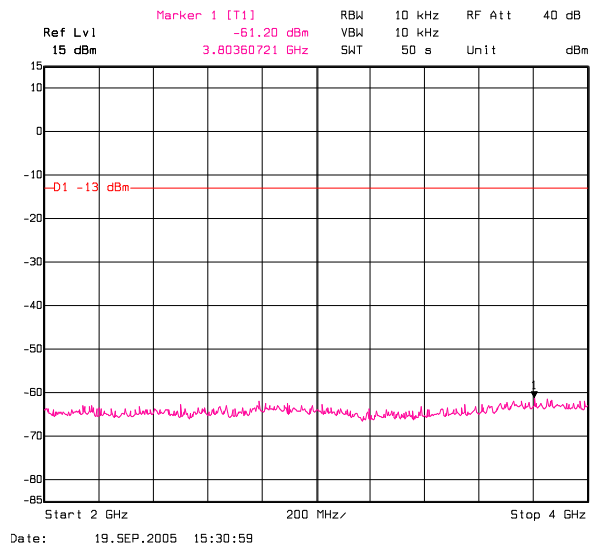
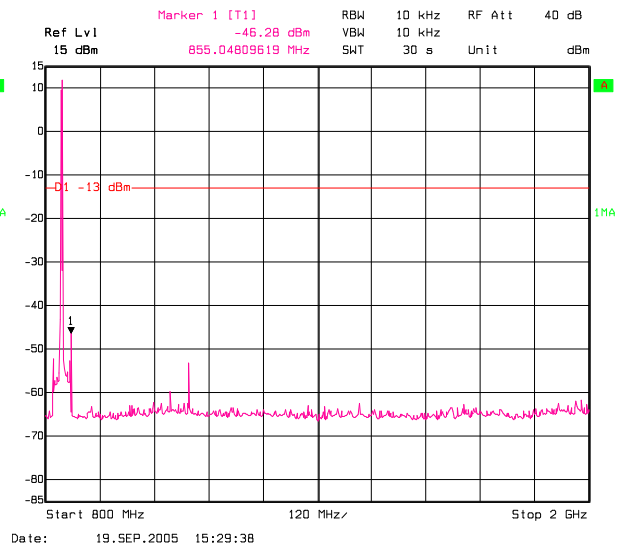
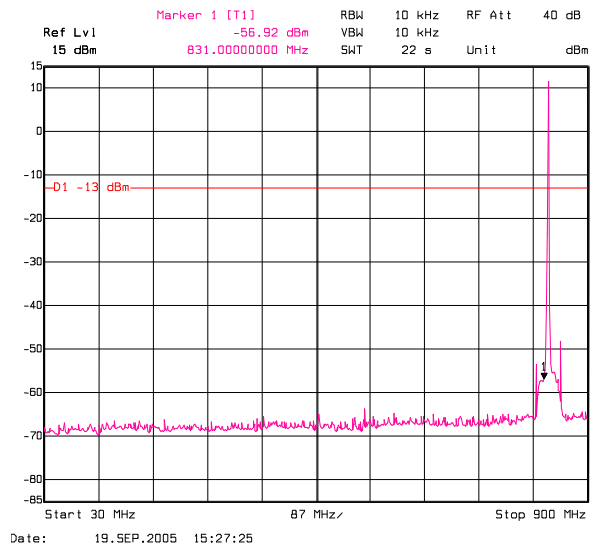
Tx Channel  
 Bandwidth      14 kHz      Power      -12.54 dBm

Date: 3.OCT.2005 16:03:12

Low Channel: 824.7 MHz -- No emissions within 20 dB of the Limit



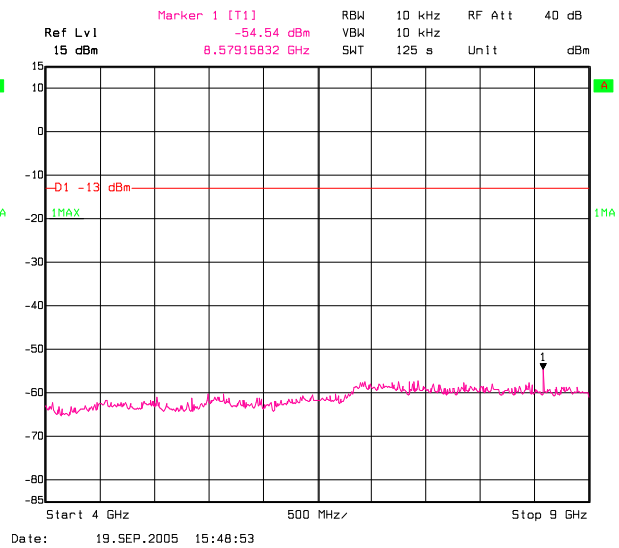
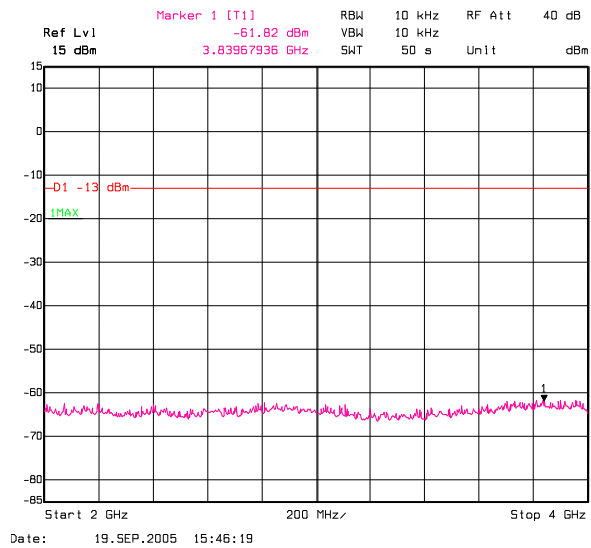
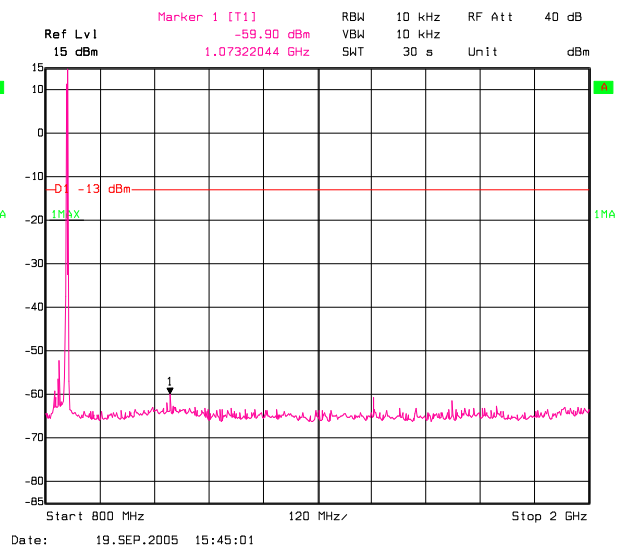
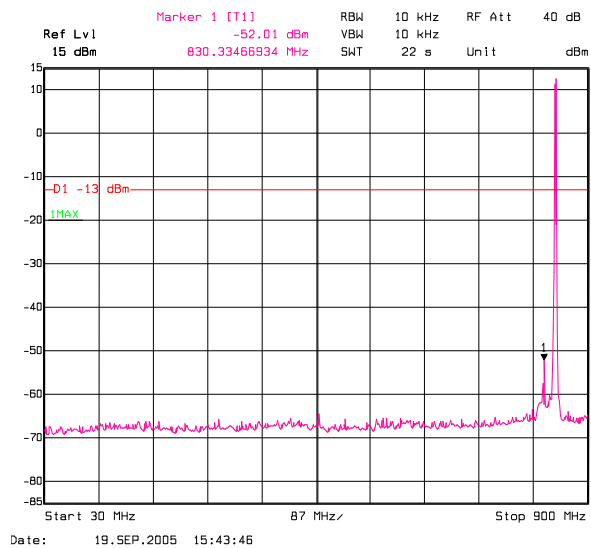
MID Channel: 836.49 MHz -- No emissions within 20 dB of the Limit







High Channel: 848.3 MHz -- No emissions within 20 dB of the Limit





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**Section 9. Field Strength of Spurious**

**Para. No.: 2.1053**

<b>Test Performed By:</b> Alan Laudani	<b>Date of Test:</b> 9-19-2005
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**Minimum Standard:** Para. No. 22.917(b).

**Test Results:**

The maximum spurious field strength in CDMA mode is 14.8 dB below the limit @ 1696.32 MHz  
Signal Substitution was performed which resulted in a margin below the limit of 20.9 dB.

**Test Data:** See attached tables.



Radiated Emissions

Job #: 25-777-VIT Page 1 of 1 Test #: 1 of 1

Client Name: VITELCOM MOBILE TECHNOLOGY U.S.A.
EUT Name: CDMA 800 Cellular Phone
EUT Model #: CV111-VTL102
EUT Part #:
EUT Serial #:
EUT Config.:
Specification: FCC Part 22
Rod. Ant. #: na Temp. (deg. C): 19
Bicon Ant. #: NA Humidity (%): 73
Log Ant. #: 110 EUT Voltage: NA
DRG Ant. #: 529 EUT Frequency: NA
Dipole Ant. #: NA Phase: NA
Cable #: 40Ft Location: RN#: 90579
Preamp #: 842 Distance: 3m
Spec An. #: 835
QP #: NA
PreSelect #: NA
Reference: Date: 9/19/05
Time: 10:30 AM
Staff: A. Laudani
Photo ID:
Peak Bandwidth: 1 MHz
Video Bandwidth: 1 MHz

Table with 12 columns: Meas. Freq. (MHz), Vertical (dBuV) pk, Horizontal (dBuV) pk, CF (db), Max Level (dBm) pk, Spec. Limit (ERP) (dBm) pk, Margin dB pk, EUT Rotation, Ant. Height, Pass Fail Unc., Comment. Rows include various frequency measurements and their corresponding levels and margins.

NS = Not seen, even at a lower RBW

NF = Noise Floor measurement.



NEMKO USA, Inc.

Substitution Method For Radiated

Job #: 25-777-VIT Page 1 of 1 Test #: 2 of 1

Client Name: VITELCOM MOBILE TECHNOLOGY U.S.A.
EUT Name: CDMA 800 Cellular Phone
EUT Model #: CV111-VTL102
EUT Part #:
EUT Serial #:
EUT Config.:
Specification: FCC Part 22
Rod. Ant. #: NA Temp. (deg. C): 19
Bicon Ant. #: NA Humidity (%): 73
Log Ant. #: 110 EUT Voltage: na
DRG Ant. #: 529 EUT Frequency: dc
Dipole Ant. #: NA Phase: na
Cable#: 60ft Location: RN#: 90579
Preamp#: 842 Distance: 3m
Spec An. #: 835
Reference:
Date: 9/19/2005
Time:
Staff: A. Laudani
Photo ID:
Peak Bandwidth: RBW-1MHz, VBW-1MHz

Table with 8 columns: target Frequency, level, Horn Gain, cable loss, Signal Generator, Total (EIRP), Spec, Margin. Rows include data for frequencies 1649.4, 1672.98, 1696.62, and 2544.93.

Table with 6 columns: Asset Number, Description, Model Number, Serial Number, Last Cal, Cal Due. Lists assets such as Antenna Dipole, Signal Gen., Spectrum Analyzer, and Preamp.



### Section 10. Frequency Stability

Para. No.: 2.1055

<b>Test Performed By:</b> A. Laudani	<b>Date of Test:</b> 8-20-05
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**Minimum Standard:** Para. No. 22.355

**Test Results:**

Limit = 2.5 ppm of Frequency

EUT Complies, see tables below.

**Measurement Data:**

**EUT complies**

**Frequency Stability over Battery Voltage Range**

**20°C**

Volts	Frequency low	Frequency high	Frequency center	Freq.difference	Output power dBm
4.2	835.870761	837.169358	<b>836.520060</b>	-1	<b>24.8</b>
4.0	835.870761	837.169358	<b>836.520060</b>	-1	<b>24.8</b>
3.8	835.870761	837.169358	<b>836.520060</b>	-1	<b>24.8</b>
3.6	835.870761	837.169358	<b>836.520060</b>	-1	<b>24.7</b>
3.4	835.870761	837.169358	<b>836.520060</b>	-1	<b>24.5</b>
3.2	835.870761	837.169358	<b>836.520060</b>	-1	<b>24.5</b>
3.0	835.870761	837.169358	<b>836.520060</b>	-1	<b>23.8</b>
2.9	835.870761	837.169358	<b>836.520060</b>	-1	<b>23.5</b>
2.83	off	off	<b>off</b>		<b>off</b>



Frequency Stability vs. Temperature.

EUT complies.

Frequency stability measurements were made over the temperature range of -30°C to +50°C.

Climatic control was accomplished using a temperature chamber. The temperature was first increased from 20C to 50C in 10C increments and then lowered to -50C and incremented back to 20C.

The unit remained in the chamber during temperature transitions and during the measurement process.

Measurements were taken at nominal voltage and ± 15% of nominal voltage, digital modulation on. The EUT was turned off during temperature transitions and then turned on at nominal voltage, placed on max hold for one minute then recorded. Upon recording the voltage was then turned down 15% then turned up to 115% of nominal voltage.

Ch384

Limits

+/-300 Hz

Voltage Nominal 4.2 V				
	Frequency low	Frequency high	Frequency center	Freq.difference
Temperature(°C)				
20	835.870760	837.169358	<b>836.520059</b>	<b>0</b>
30	835.870761	837.169350	<b>836.520056</b>	<b>-3</b>
40	835.870761	837.169358	<b>836.520060</b>	<b>1</b>
50	835.870761	837.169358	<b>836.520060</b>	<b>1</b>
-30	835.870761	837.169350	<b>836.520056</b>	<b>-3</b>
-20	835.870761	837.169358	<b>836.520060</b>	<b>1</b>
-10	835.870761	837.169358	<b>836.520060</b>	<b>1</b>
0	835.870761	837.169358	<b>836.520060</b>	<b>1</b>
10	835.870761	837.169358	<b>836.520060</b>	<b>1</b>

Voltage 85% 3.57 V				
	Frequency low	Frequency high	Frequency center	Freq.difference
Temperature(°C)				
20	835.870761	837.169358	<b>836.520060</b>	<b>1</b>
30	835.870761	837.169358	<b>836.520060</b>	<b>1</b>
40	835.870761	837.169358	<b>836.520060</b>	<b>1</b>
50	835.870761	837.169358	<b>836.520060</b>	<b>1</b>
-30	835.870761	837.169358	<b>836.520060</b>	<b>1</b>
-20	835.870761	837.169358	<b>836.520060</b>	<b>1</b>
-10	835.870761	837.169350	<b>836.520056</b>	<b>-3</b>
0	835.870761	837.169358	<b>836.520060</b>	<b>1</b>
10	835.870761	837.169358	<b>836.520060</b>	<b>1</b>

Voltage 1.15% 4.83 V				
	Frequency low	Frequency high	Frequency center	Freq.difference
Temperature(°C)				
20	835.870761	837.169358	<b>836.520060</b>	<b>1</b>
30	835.870761	837.169350	<b>836.520056</b>	<b>-3</b>
40	835.870761	837.169358	<b>836.520060</b>	<b>1</b>
50	835.870761	837.169358	<b>836.520060</b>	<b>1</b>
-30	835.870761	837.169358	<b>836.520060</b>	<b>1</b>
-20	835.870761	837.169358	<b>836.520060</b>	<b>1</b>
-10	835.870761	837.169358	<b>836.520060</b>	<b>1</b>
0	835.870761	837.169358	<b>836.520060</b>	<b>1</b>
10	835.870761	837.169358	<b>836.520060</b>	<b>1</b>

<b>Mode:</b>	CDMA 800
<b>Channel:</b>	384

Voltage	Frequency Error	Frequency Error
Volt	HZ	(PPM)
3.4 volt	<b>13.40</b>	<b>0.007</b>
3.5 volt	<b>11.80</b>	<b>0.006</b>
3.6 volt	<b>9.10</b>	<b>0.005</b>
3.7 volt	<b>14.90</b>	<b>0.008</b>
3.8 volt	<b>10.50</b>	<b>0.006</b>
3.9 volt	<b>9.40</b>	<b>0.005</b>
4.0 volt	<b>-10.40</b>	<b>-0.006</b>
4.1 volt	<b>8.70</b>	<b>0.005</b>
4.2 volt	<b>-7.30</b>	<b>-0.004</b>

**Equipment List:**

Asset Number	Description	Model Number	Serial Number	Last Cal	Cal Due
n149	Cincinnati Sub Zero Chamber	NA	ZP0552665	5/13/05	5/13/06
835	Spectrum Analyzer, Rhode & Schwartz	RHDFSEK	829058/005	12/30/04	12/30/05
810	Multimeter, Fluke	111	77820242	1/6/05	1/6/06
772	DC Power Supply, Micronta	22-121	None	NCR	NCR



### Section 11. Test Equipment List

<b>Emissions Test Equipment Used by Nemko</b>						
<b>Client</b>	VITELCOM MOBILE TECHNOLOGY U.S.A.	<b>EUT Name</b>	Single Band Mobile Phone			
<b>PAN #</b>	24-611-KYO	<b>EUT Model</b>	CV111-VTL102			
	<i>Device Type</i>	<i>Model #</i>	<i>MFG</i>	<i>Asset #</i>	<i>SN</i>	<i>Cal Due</i>
<b>OATS #1 (South)</b>						
	Spectrum Analyzer	1088.3494.30	R & S	835	830320/002	12-30-05
	Antenna, Ridged Guide	3115	EMCO	529	2505	11-19-05
	Antenna, Ridged Guide	3115	EMCO	752	9609-4943	12-19-05
	Signal Generator	1018	Gigatronics	440	314104	12/22/2005
	Dipole Set	3121C	EMCO	756	1215	8-27-06
	Antenna, LPA	3146	EMCO	112	9101-2988	9-19-06
	Attenuator, 30 dB	8491B	HP	332	X0475	4-21-06
	Environmental Chamber	NA	Thermotron	048	NA	1-12-06
	Multimeter	111	Fluke	810	NA	1-6-06
	Power Supply	Adj. Dual DC	Micronta	772	NA	NCR
	RF Power Meter	4232A	Boonton	887	64001	7-27-06
	Power Meter Sensor	51011-EMC	Boonton	888	32160	7-27-06

NA: Not Applicable  
NCR: No Cal Required  
COU: CAL On Use