



**Nemko Test Report:** 52047RUS1

**Applicant:** Communication Components, Inc.  
89 Leuning Street  
2<sup>nd</sup> Floor  
Hackensack, NJ 07606

**Equipment Under Test:  
(E.U.T.)** DAC-850-125

**In Accordance With:** **FCC Part 22, Subpart H**  
850 MHz Cellular Band Amplifier

**Tested By:** Nemko USA, Inc.  
802 N. Kealy  
Lewisville, TX  
75057-3136

**Authorized By:**   
Tom Tidwell, Frontline Group Manager

**Date:** 25 November, 2005

**Table of Contents**

SECTION 1.	SUMMARY OF TEST RESULTS .....	3
SECTION 2.	GENERAL EQUIPMENT SPECIFICATION.....	5
SECTION 3.	RF POWER OUTPUT .....	7
SECTION 4.	OCCUPIED BANDWIDTH.....	8
SECTION 5.	SPURIOUS EMISSIONS AT ANTENNA TERMINALS.....	21
SECTION 6.	FIELD STRENGTH OF SPURIOUS .....	36
SECTION 7.	TEST EQUIPMENT LIST.....	39
ANNEX A -	TEST DETAILS.....	40
ANNEX B -	TEST DIAGRAMS .....	46

## Section 1. Summary of Test Results

Manufacturer: Communication Components, Inc.

Model No.: DAC-850-125

Serial No.: A006936

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, Subpart H.



New Submission



Production Unit



Class II Permissive Change



Pre-Production Unit

THIS TEST REPORT RELATES ONLY TO THE ITEM(S) TESTED.

THE FOLLOWING DEVIATIONS FROM, ADDITIONS TO, OR EXCLUSIONS FROM THE TEST SPECIFICATIONS HAVE BEEN MADE. NONE

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**Summary Of Test Data**

NAME OF TEST	PARA. NO.	SPEC.	RESULT
RF Power Output	22.913(a)	500W ERP	Complies
Occupied Bandwidth	22.917(c)	Input/Output	Complies
Spurious Emissions at Antenna Terminals	22.917	-13 dBm	Complies
Field Strength of Spurious Emissions	22.917	-13 dBm E.I.R.P.	Complies
Frequency Stability	22.355	1.5 ppm	NA

**Footnotes**

:

- (1) Device does not demodulate input RF. The device is a power amplifier unit designed to integrate into a BTS.

**Measurement uncertainty for each test configuration is expressed to 95% probability.**

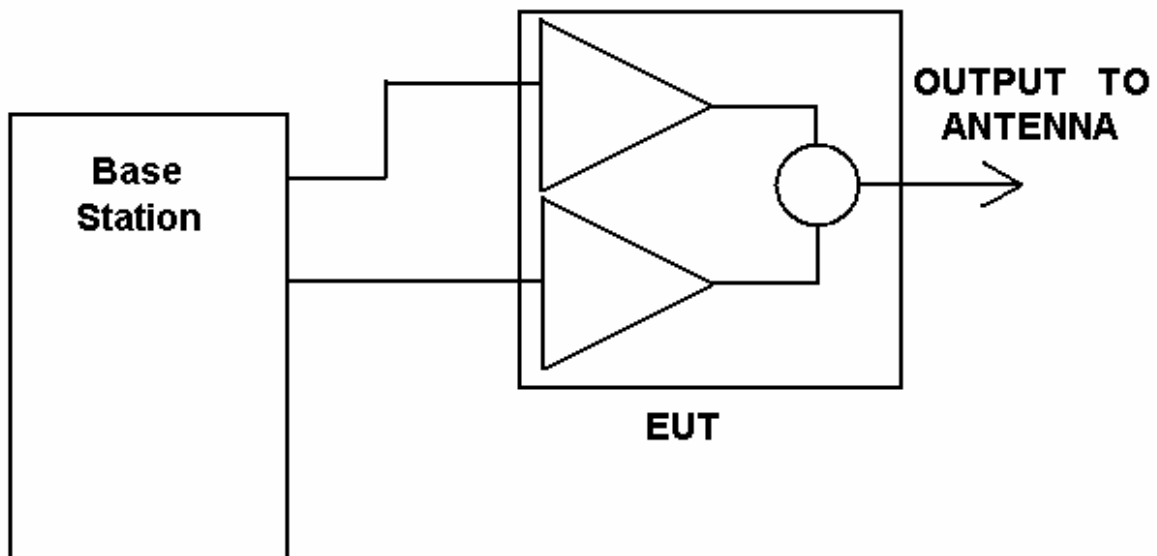
.

## Section 2. General Equipment Specification

<b>Supply Voltage Input:</b>		24 Vdc		
<b>Frequency Range:</b>		869.2 to 893.8 MHz		
		<b>Note: At the highest and lowest channels, the power output must be reduced to 3 Watts for GSM and 5.8 Watts for EDGE modulations to achieve bandedge compliance.</b>		
<b>Type of Modulation and Designator:</b>		<b>CDMA (F9W)</b> <input type="checkbox"/>	<b>GSM (G7W)</b> <input checked="" type="checkbox"/>	<b>NADC (DXW)</b> <input type="checkbox"/>
			<b>EDGE (G7W)</b> <input checked="" type="checkbox"/>	<b>AMPS (F8W, F1D)</b> <input type="checkbox"/>
<b>Output Impedance:</b>		50 ohms		
<b>RF Output (Rated):</b>	<b>Downlink:</b>	Per Channel:	62.5	W
		Total:	125	W
	<b>Uplink:</b>	Per Channel:	NA	W
		Total:	NA	W
<b>Frequency Translation:</b>		<b>F1-F1</b>	<b>F1-F2</b>	<b>N/A</b>
The device is simply an amplifier and does not translate the frequency.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Band Selection:</b>		<b>Software</b>	<b>Duplexer Change</b>	<b>Fullband Coverage</b>
		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**Description of Operation**

The device is a base station amplifier operating in the 850 MHz cellular band utilizing GSM and GSM EDGE technology. Each input outputs 62.5 Watts single carrier only and input into a combiner prior to output. The device is rated at 125 Watts combined power. Operation on the lowest and highest defined channels requires a reduction in rf power output to 3 watts GSM and 5 watts for EDGE modulation.

**System Diagram**

**Section 3. RF Power Output**

NAME OF TEST: RF Power Output	PARA. NO.: 2.1046
TESTED BY: David Light	DATE: 26 October 2005

**Test Results:**                      Complies.

**Test Data:**

Modulation Type	Per Channel Power Output (dBm)	Composite Power Output (dBm)	Per Channel Power Output (Watts)	Composite Power Output (Watts)
GSM	47.96	50.96	62.5	125
EDGE	47.96	50.96	62.5	125
GSM (Reduced)	34.8	-	3.0	-
EDGE (Reduced)	37.6	-	5.8	-

Note: RF power output must be reduced at 869.2 and 893.8 MHz (center of lowest and highest channels) to 3 Watts for GSM and 5.8 Watts for EDGE modulations to adhere to bandedge requirements.

**Equipment Used:** 1036-1053-1054-1064-1067-1060

**Measurement Uncertainty:**                      +/- 1.7 dB

**Temperature:** 20 °C

**Relative Humidity:** 30 %

## Section 4. Occupied Bandwidth

NAME OF TEST: Occupied Bandwidth	PARA. NO.: 2.1049
TESTED BY: David Light	DATE: 26 October 2005

**Test Results:** Complies.

**Test Data:** See attached plots

**Equipment Used:** 1036-1053-1054-1064-1067-1060

**Measurement Uncertainty:** +/- 1.7 dB

**Temperature:** 20 °C

**Relative Humidity:** 30 %

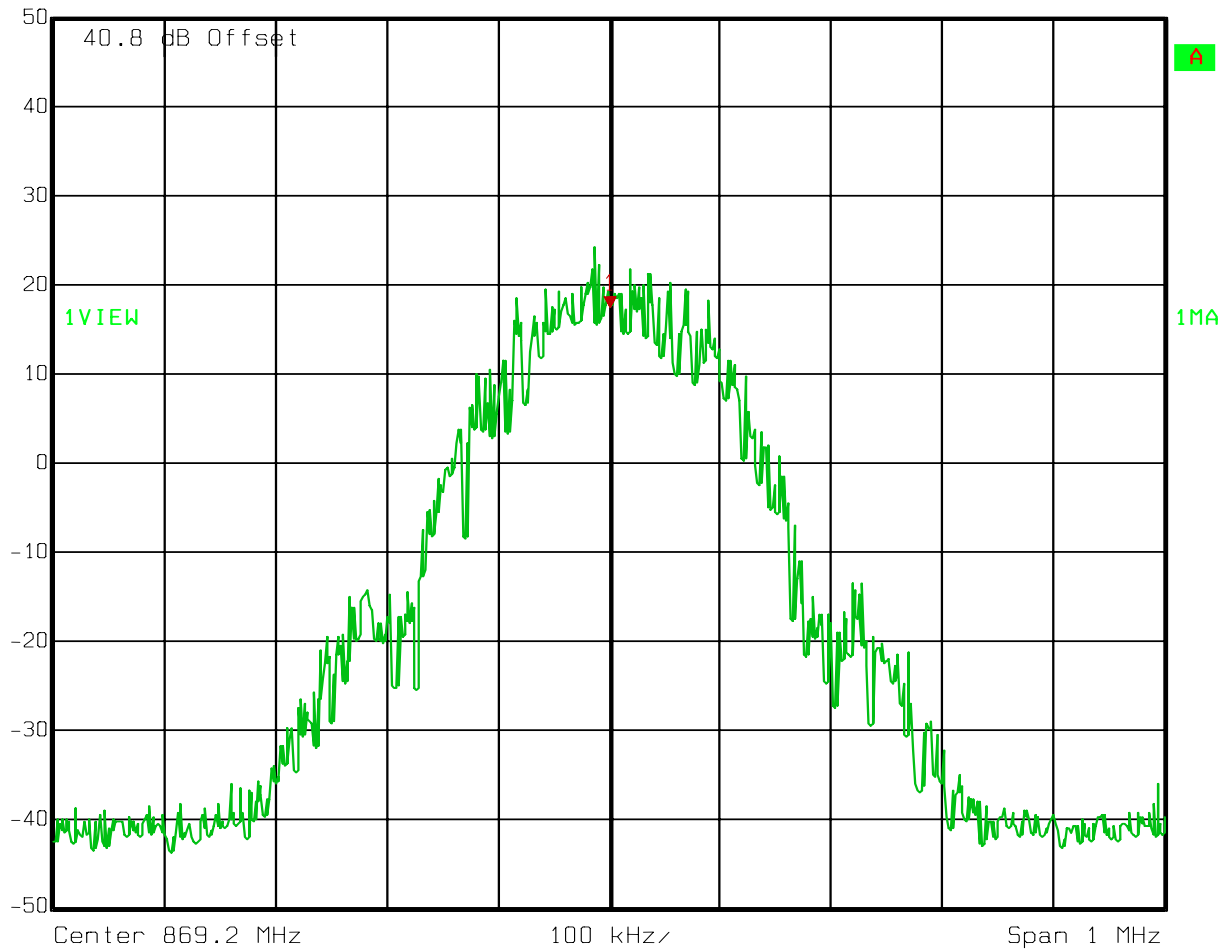


## Test Data – Occupied Bandwidth

## GSM Output



Marker 1 [T1] RBW 3 kHz RF Att 30 dB  
Ref Lvl 17.27 dBm VBW 3 kHz  
50 dBm 869.2000000 MHz SWT 280 ms Unit dBm



Date: 26.OCT.2005 14:39:41

## Test Data – Occupied Bandwidth

GSM Input



Ref Lvl

50 dBm

RBW 3 kHz

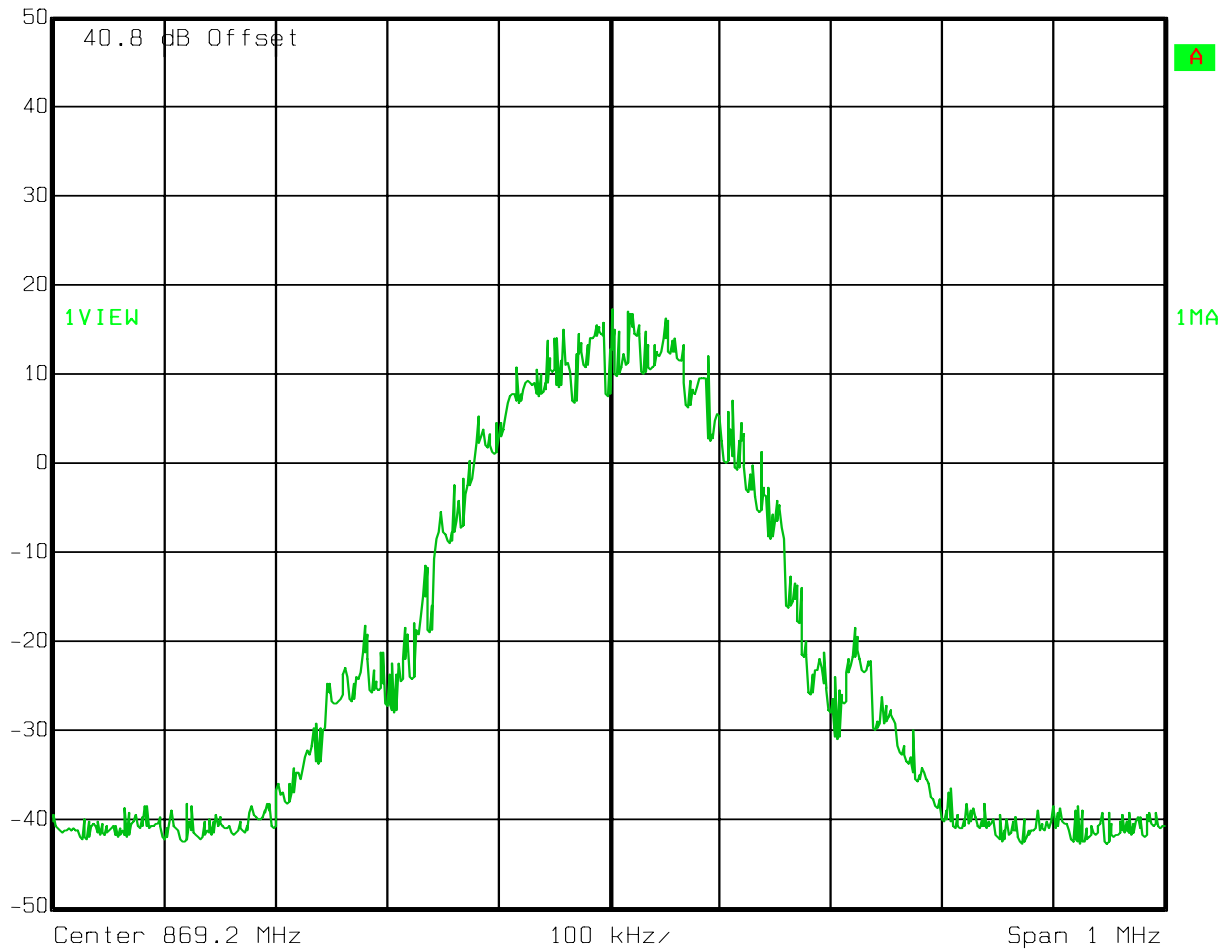
RF Att 30 dB

VBW 3 kHz

SWT 280 ms

Unit

dBm



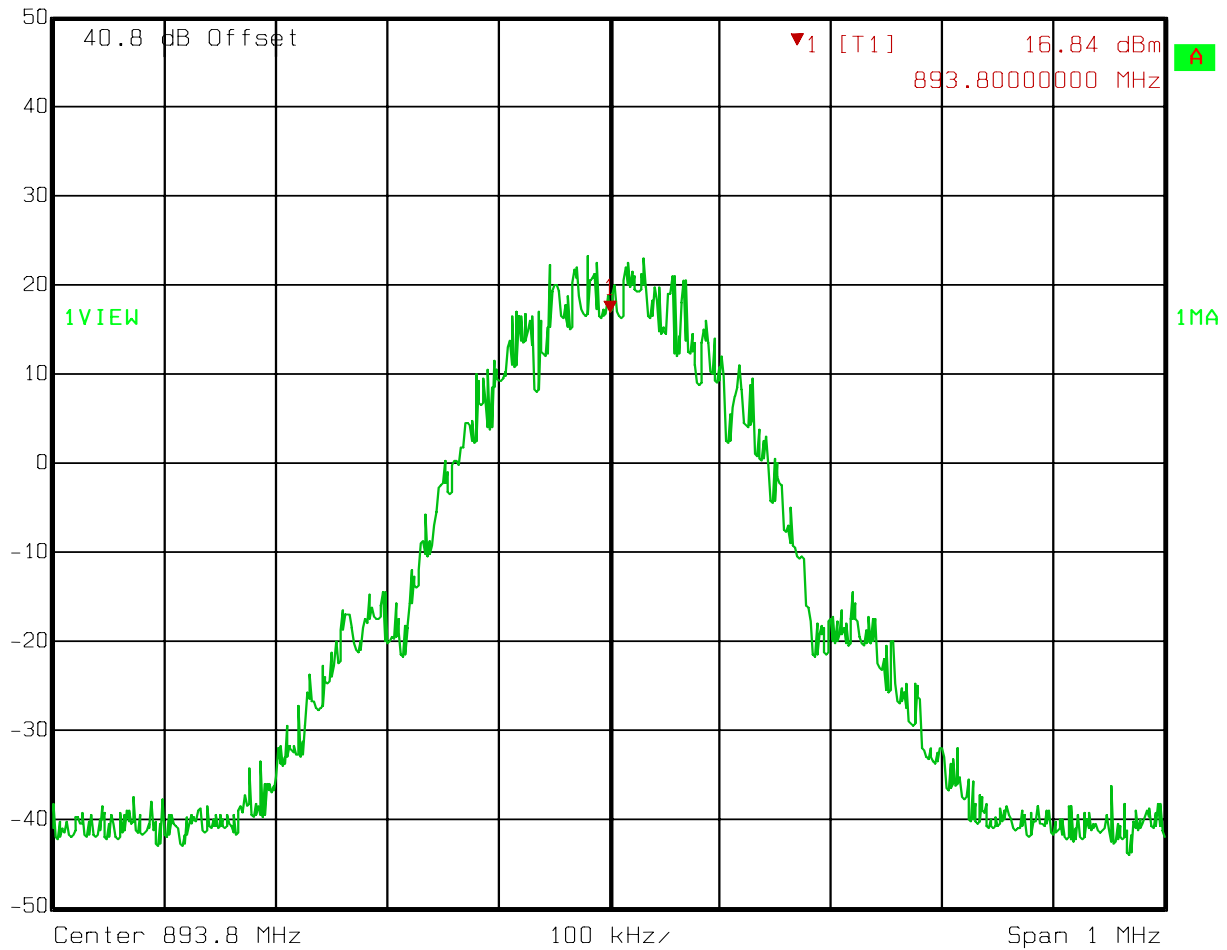
Date: 27.OCT.2005 08:30:48

## Test Data – Occupied Bandwidth

## GSM Output



Marker 1 [T1] RBW 3 kHz RF Att 30 dB  
Ref Lvl 16.84 dBm VBW 3 kHz  
50 dBm 893.80000000 MHz SWT 280 ms Unit dBm



Date: 26.OCT.2005 14:52:34

## Test Data – Occupied Bandwidth

GSM Input



Ref Lvl

50 dBm

RBW 3 kHz

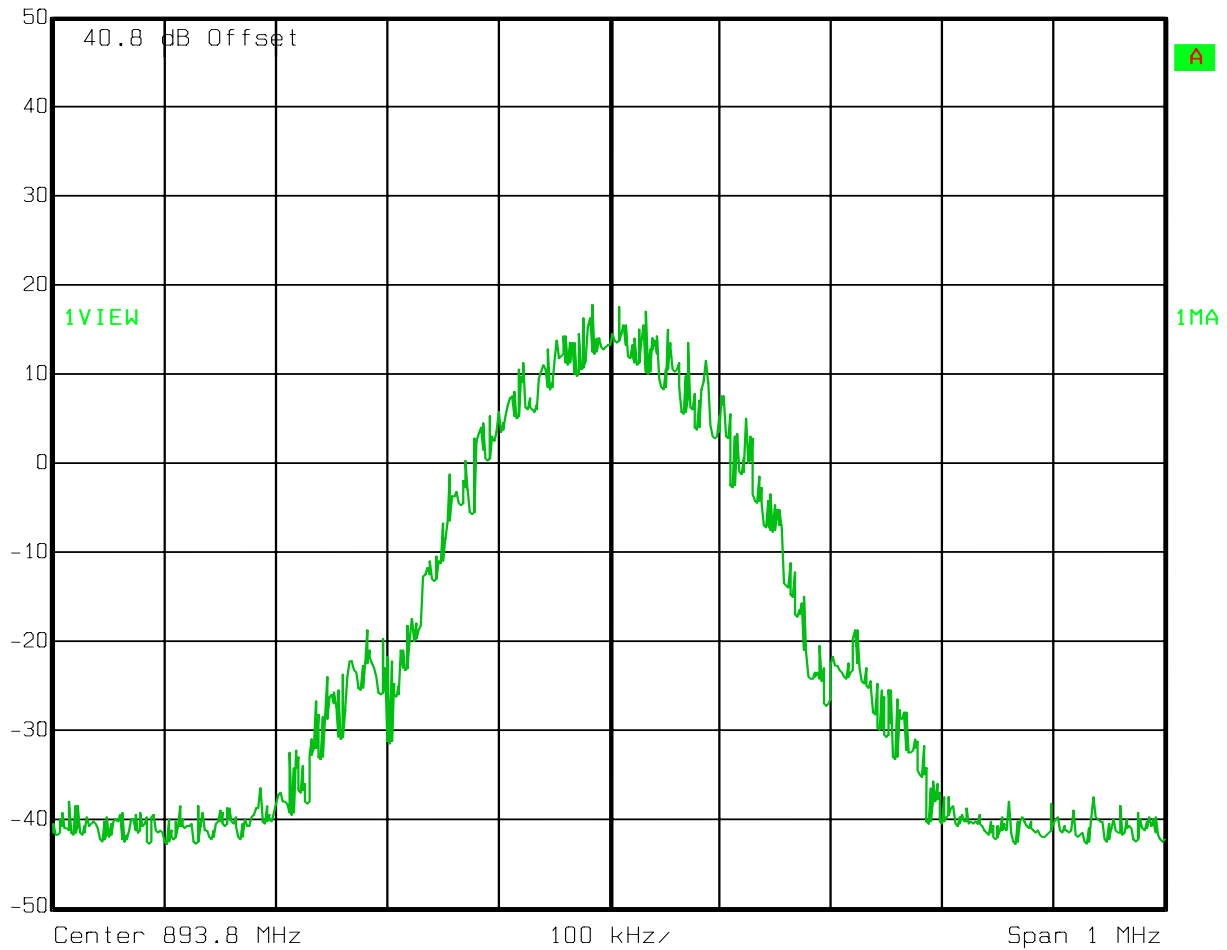
RF Att 30 dB

VBW 3 kHz

SWT 280 ms

Unit

dBm



Date: 27.OCT.2005 08:30:05

# Test Data – Occupied Bandwidth

## GSM Output



Ref Lvl

50 dBm

RBW 3 kHz

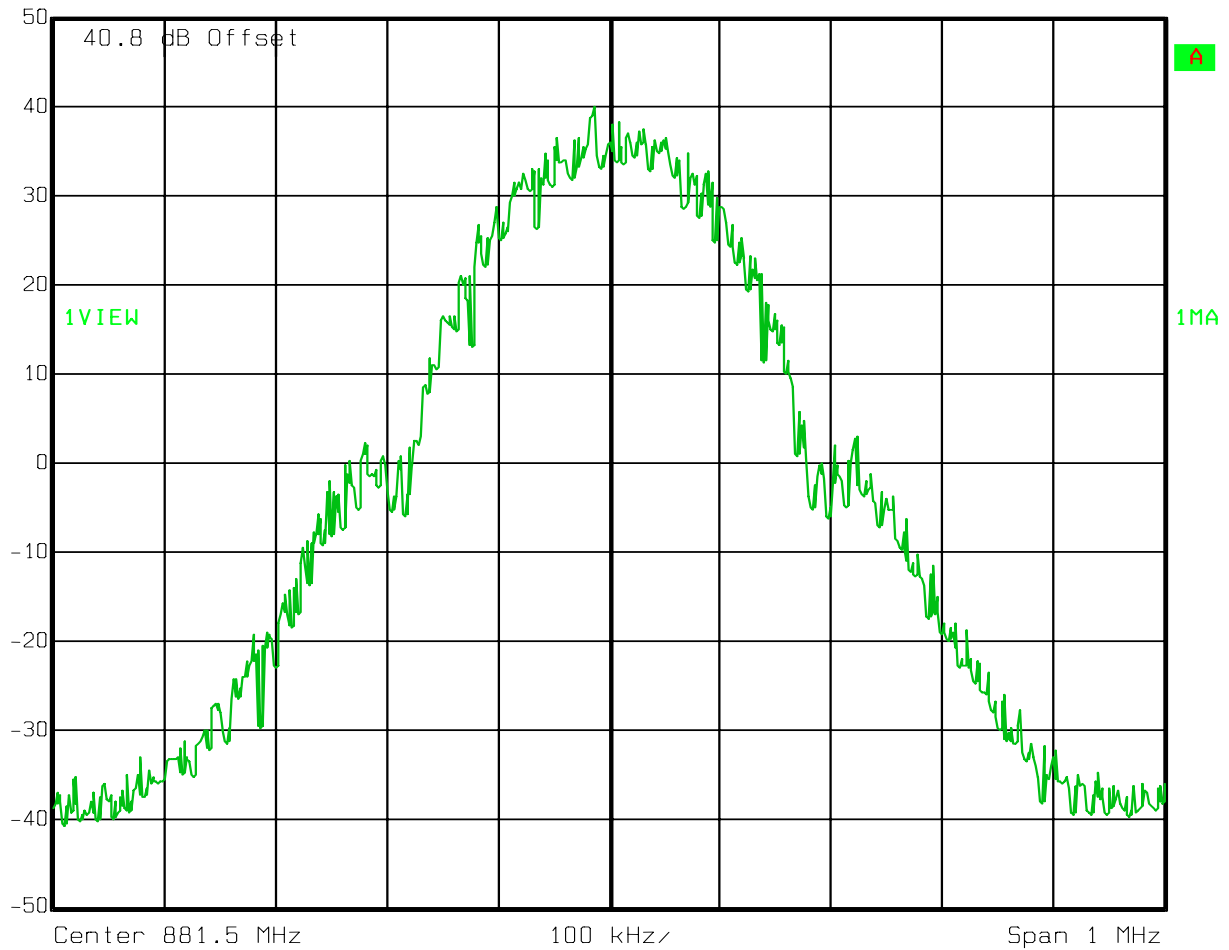
RF Att 30 dB

VBW 3 kHz

SWT 280 ms

Unit

dBm



Date: 27.OCT.2005 08:27:15

## Test Data – Occupied Bandwidth

GSM Input



Ref Lvl

50 dBm

RBW 3 kHz

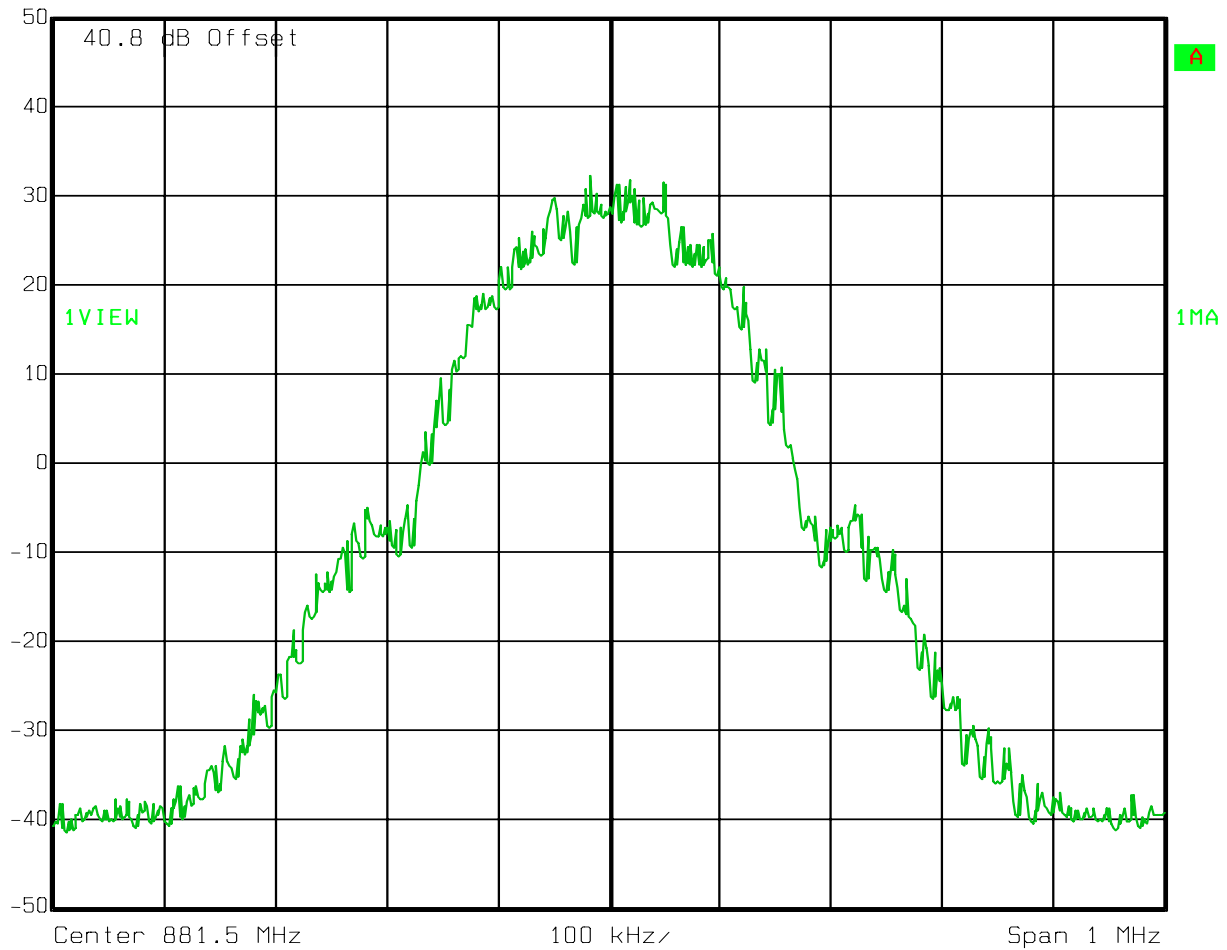
RF Att 30 dB

VBW 3 kHz

SWT 280 ms

Unit

dBm



Date: 27.OCT.2005 08:28:49

## Test Data – Occupied Bandwidth

## EDGE Output



Ref Lvl

50 dBm

RBW 3 kHz

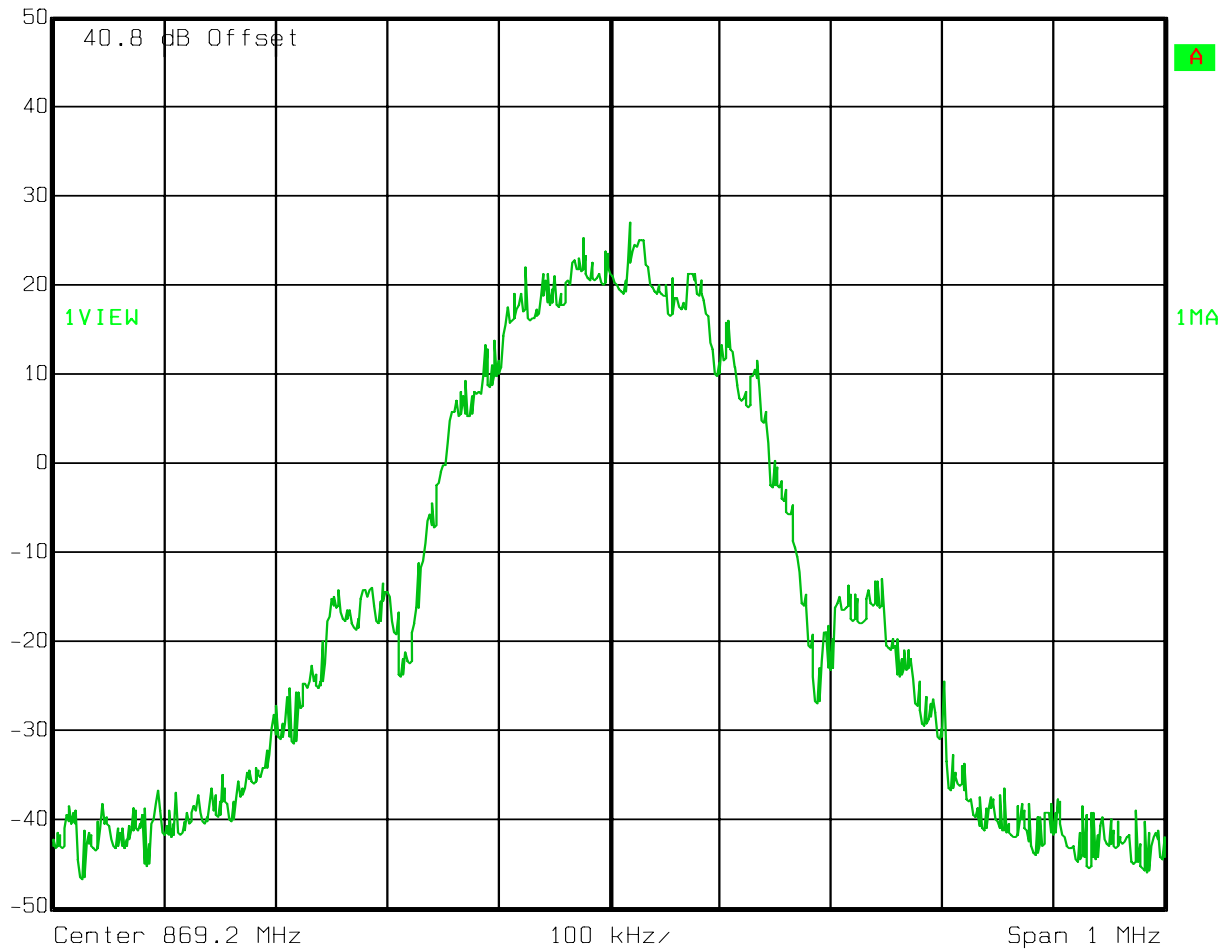
RF Att 30 dB

VBW 3 kHz

SWT 280 ms

Unit

dBm



Date: 27.OCT.2005 08:46:03

## Test Data – Occupied Bandwidth

EDGE Input



Ref Lvl

50 dBm

RBW 3 kHz

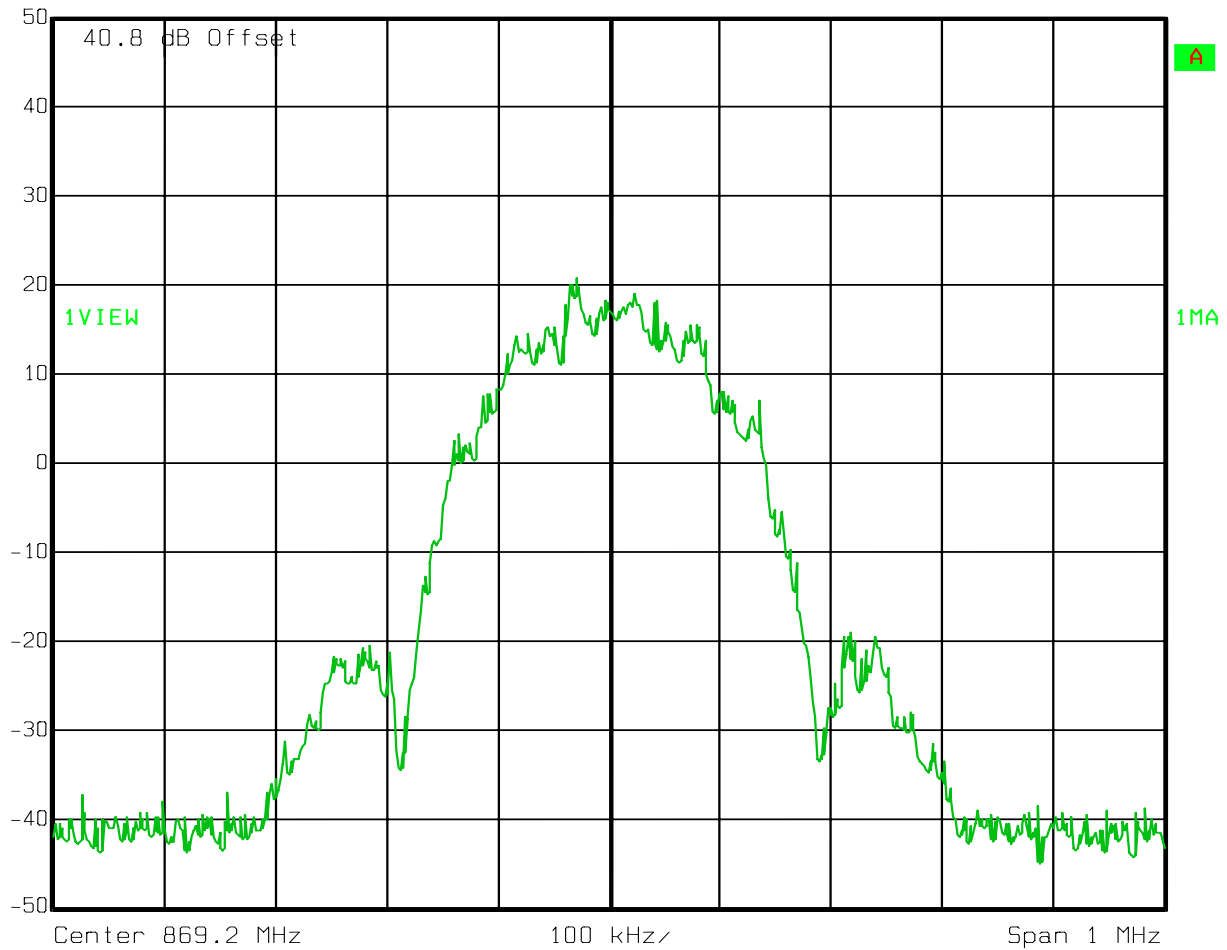
RF Att 30 dB

VBW 3 kHz

SWT 280 ms

Unit

dBm



Date: 27.OCT.2005 09:02:12



## Test Data – Occupied Bandwidth

## EDGE Output



Ref Lvl

50 dBm

RBW 3 kHz

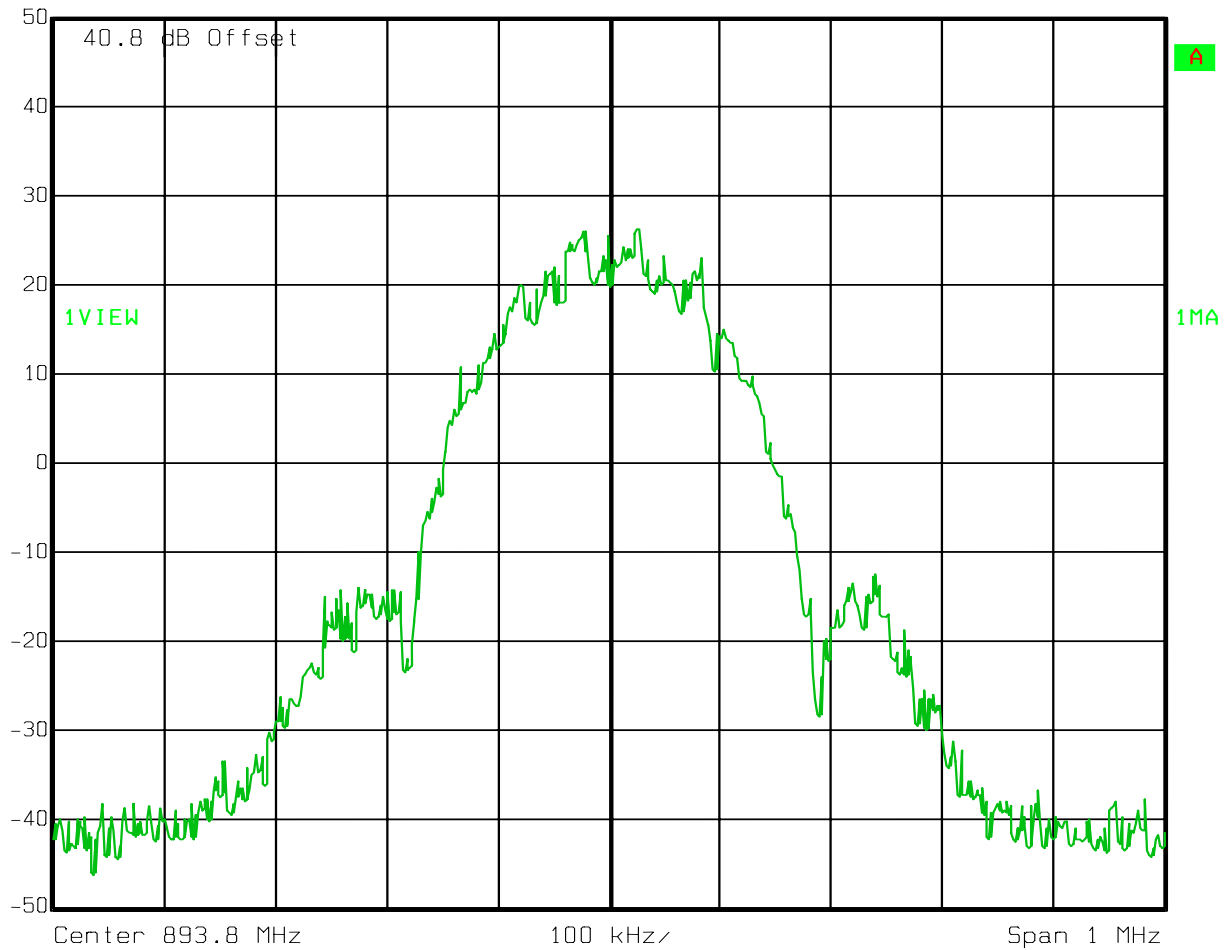
RF Att 30 dB

VBW 3 kHz

SWT 280 ms

Unit

dBm



Date: 27.OCT.2005 08:50:30

## Test Data – Occupied Bandwidth

EDGE Input



Ref Lvl

50 dBm

RBW 3 kHz

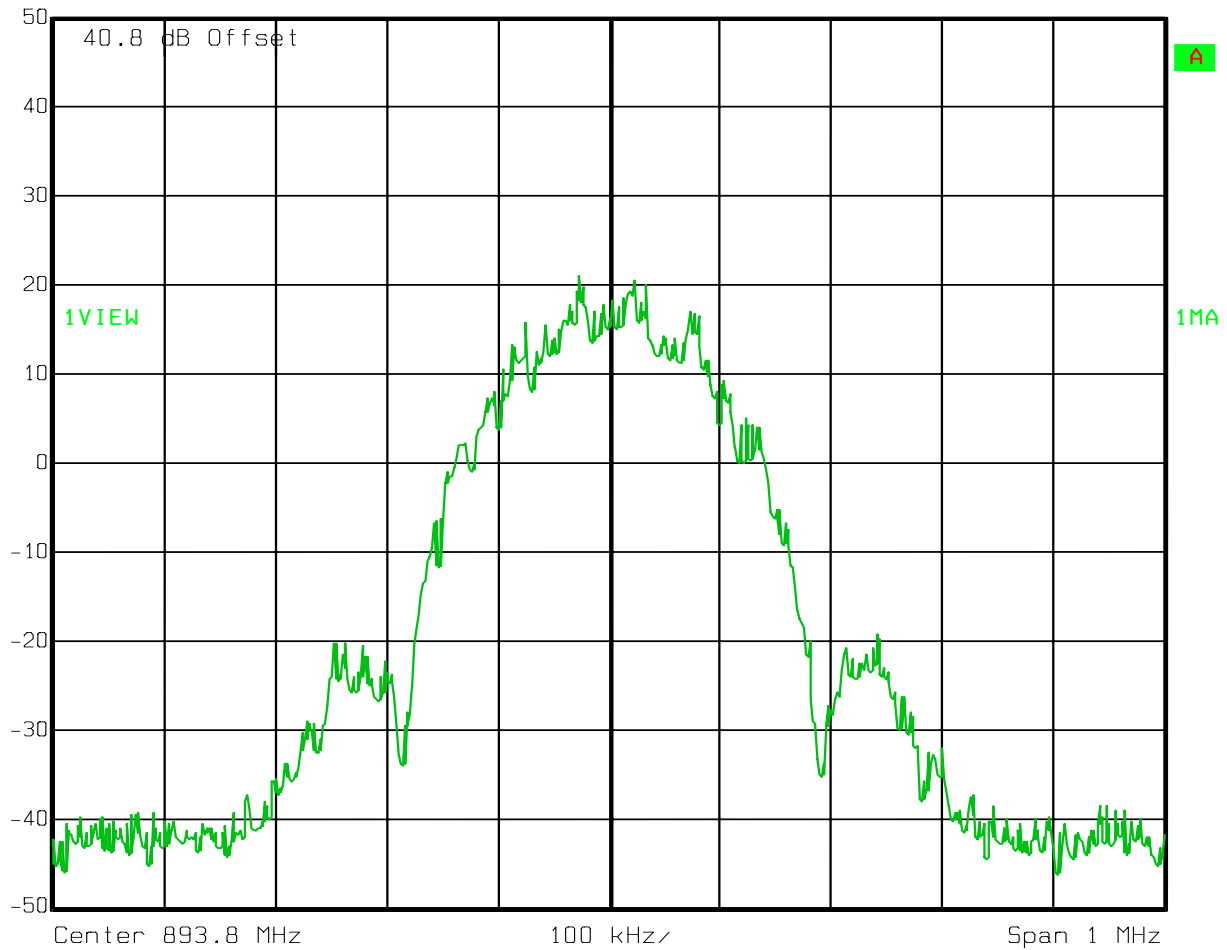
RF Att 30 dB

VBW 3 kHz

SWT 280 ms

Unit

dBm



Date: 27.OCT.2005 09:01:29

## Test Data – Occupied Bandwidth

## EDGE Output



Ref Lvl

50 dBm

RBW 3 kHz

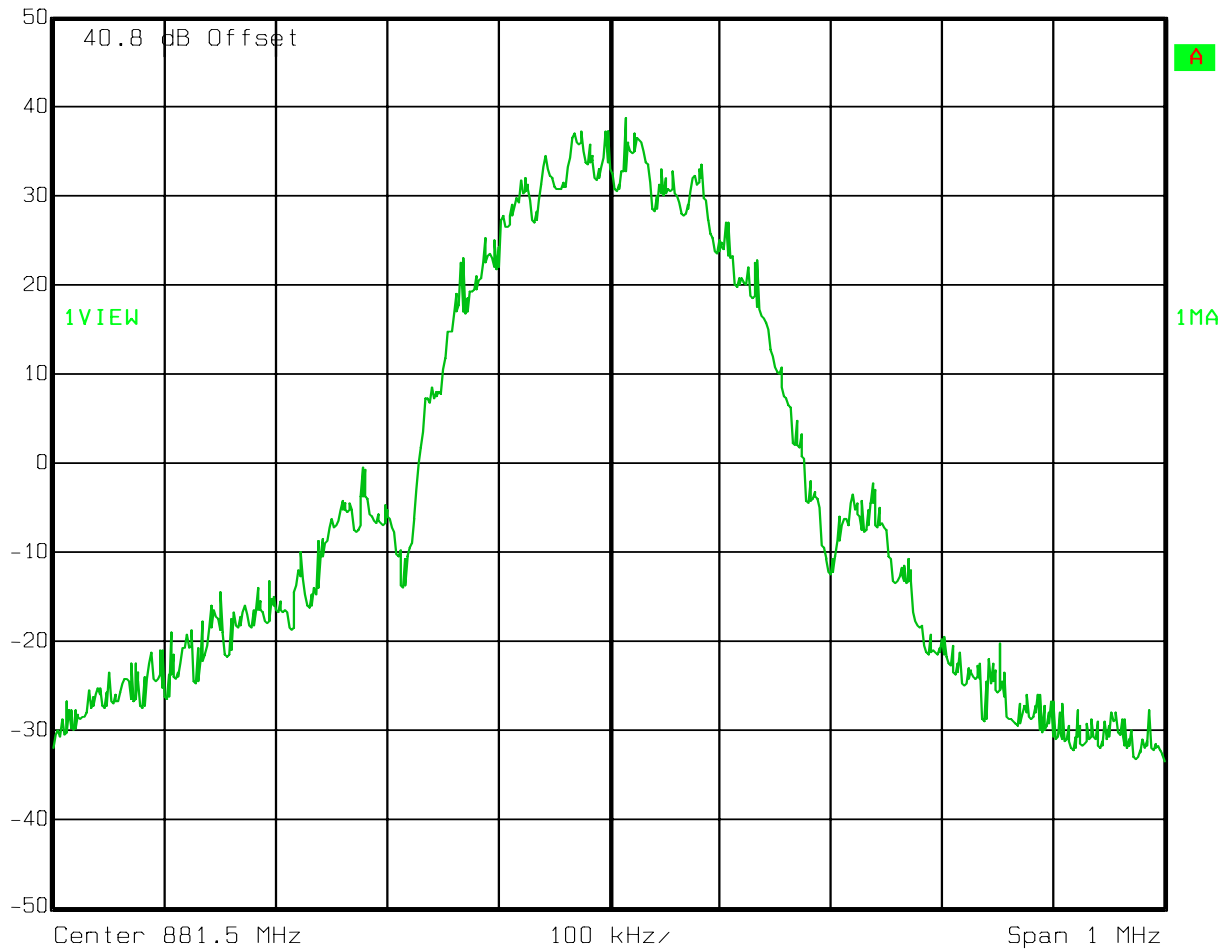
RF Att 30 dB

VBW 3 kHz

SWT 280 ms

Unit

dBm



Date: 27.OCT.2005 08:58:54

## Test Data – Occupied Bandwidth

EDGE Input



Ref Lvl

50 dBm

RBW 3 kHz

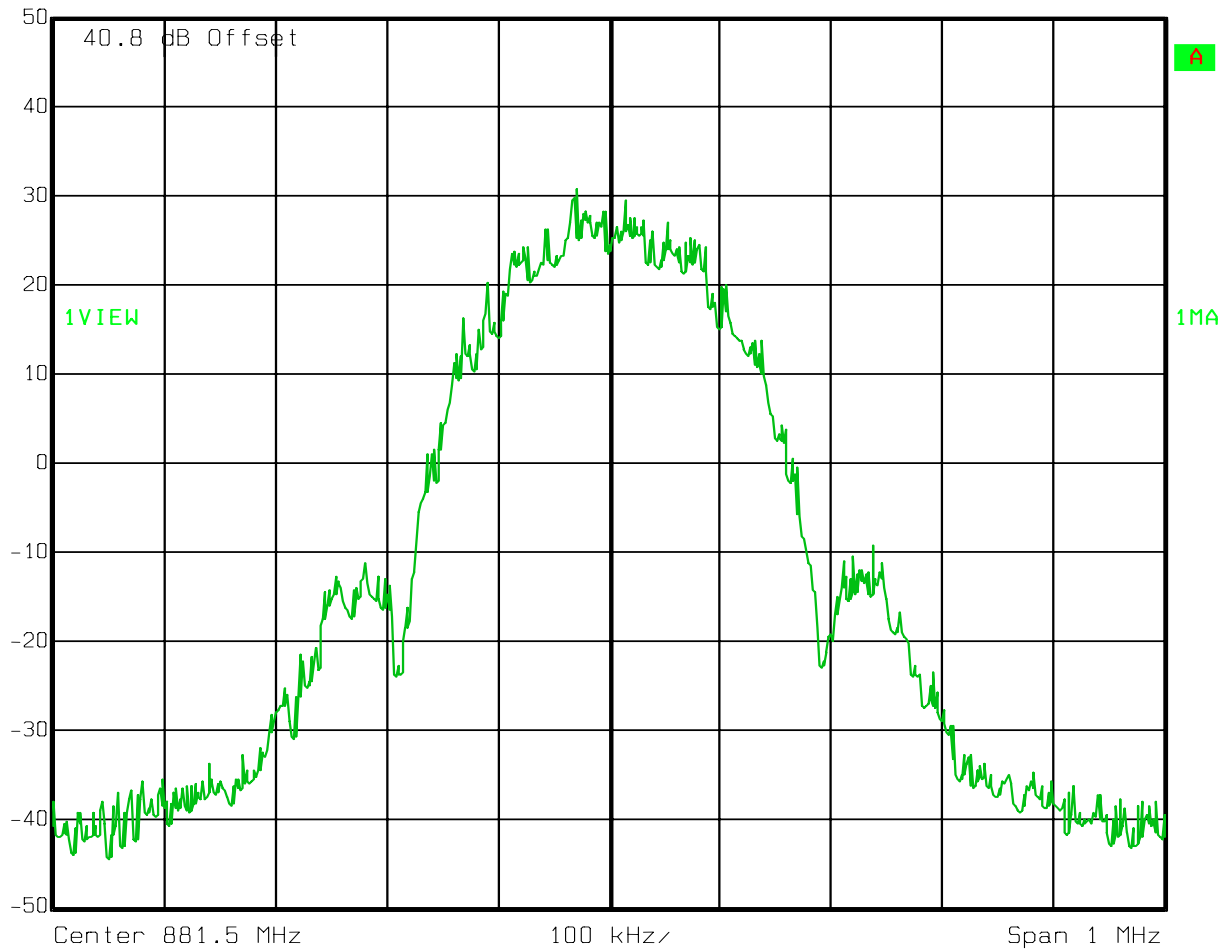
RF Att 30 dB

VBW 3 kHz

SWT 280 ms

Unit

dBm



Date: 27.OCT.2005 09:00:33

## Section 5. Spurious Emissions at Antenna Terminals

NAME OF TEST: Spurious Emissions @ Antenna Terminals	PARA. NO.: 2.1051
TESTED BY: David Light	DATE: 26 October 2005

**Test Results:** Complies.

**Test Data:** See attached plots

**Equipment Used:** 1036-1053-1054-1064-1067-1060

**Measurement  
Uncertainty:** +/- 1.7 dB

**Temperature:** 20 °C

**Relative  
Humidity:** 30 %

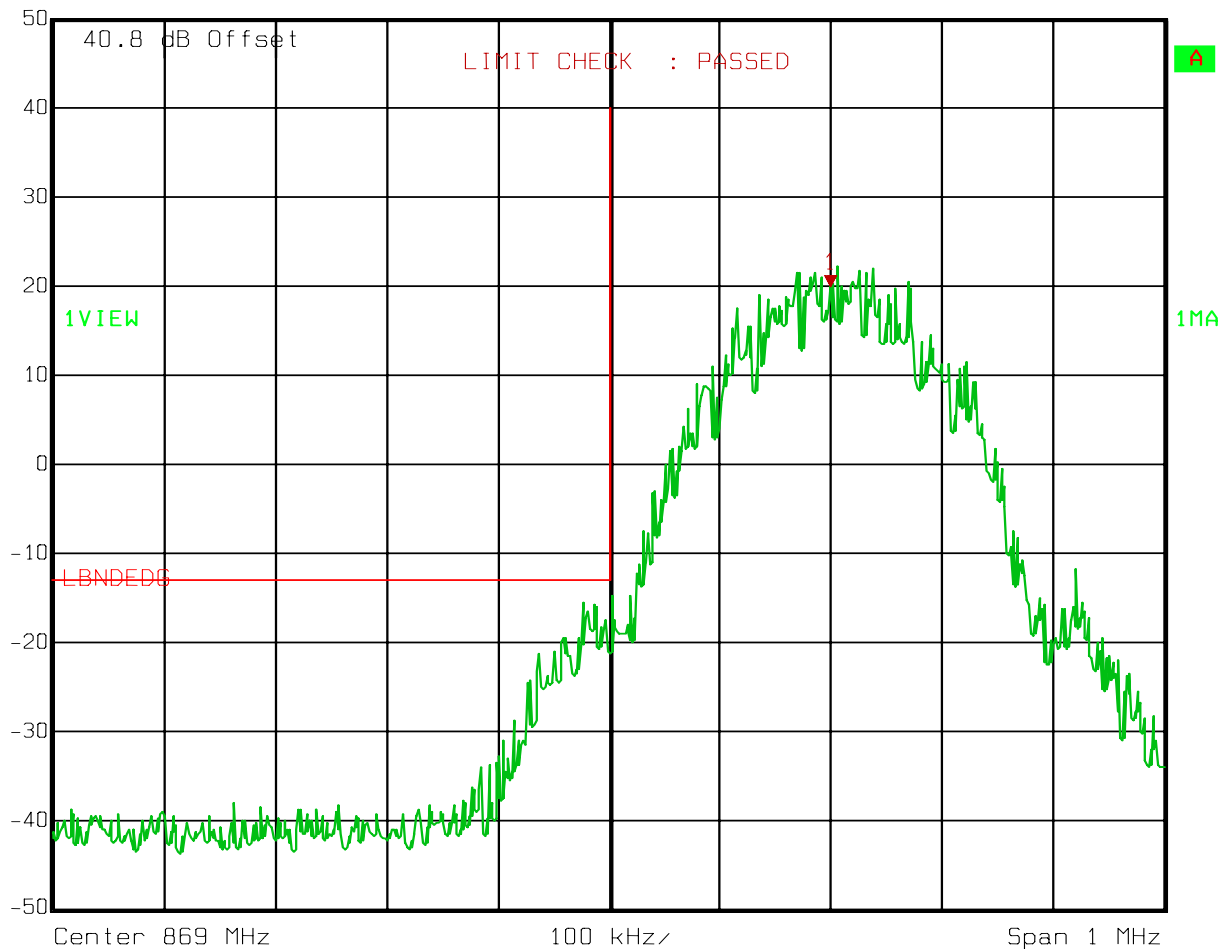
**Test Data – Spurious Emissions at Antenna Terminals**

Low band edge – 869.2 MHz @ 3 watts

GSM



Marker 1 [T1] RBW 3 kHz RF Att 30 dB  
Ref Lvl 19.88 dBm VBW 3 kHz  
50 dBm 869.20000000 MHz SWT 280 ms Unit dBm

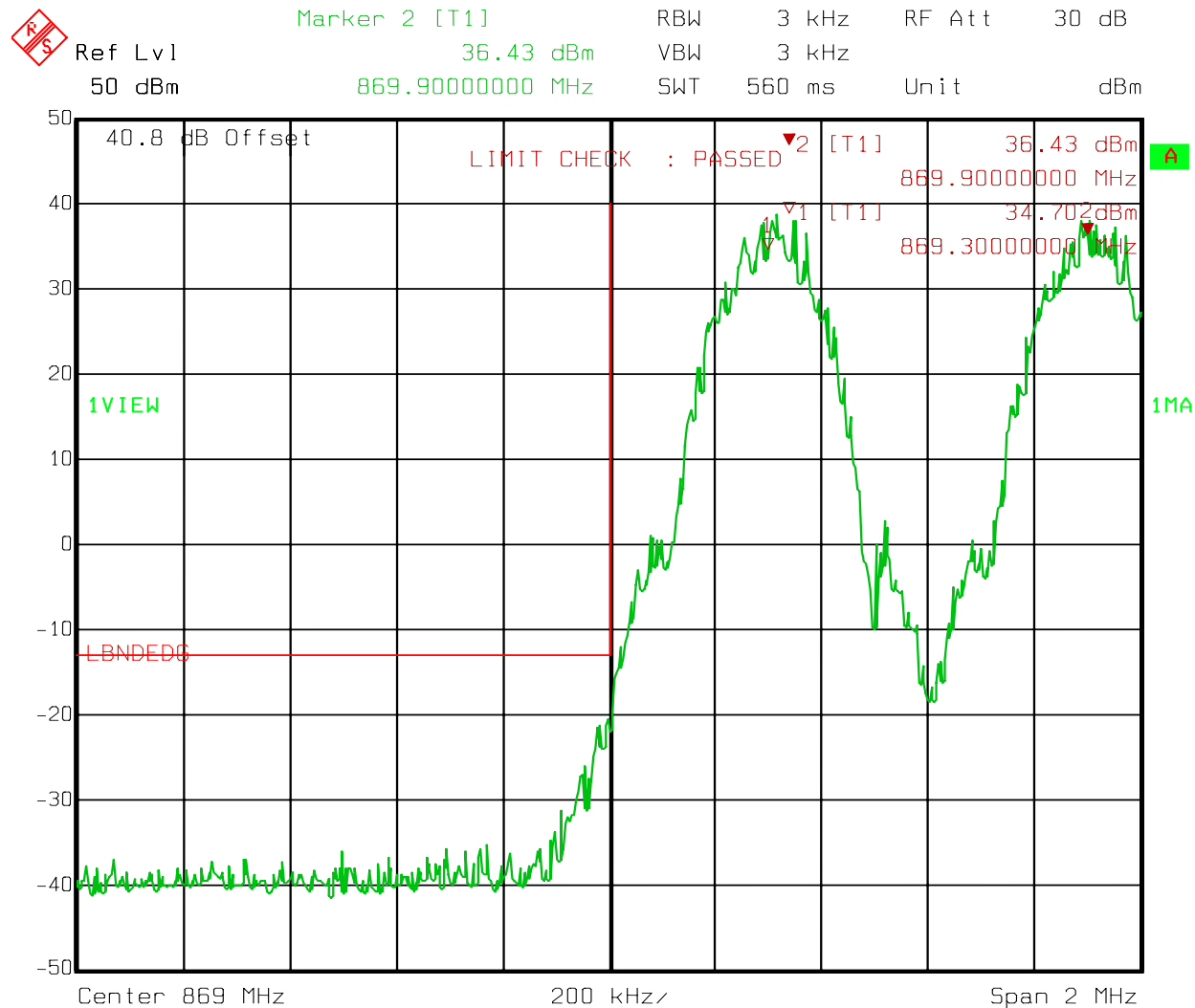


Date: 26.OCT.2005 14:37:27

**Test Data – Spurious Emissions at Antenna Terminals**

Lower band edge IM – Two carriers at 62.5 watts each

GSM



Date: 26.OCT.2005 14:47:31

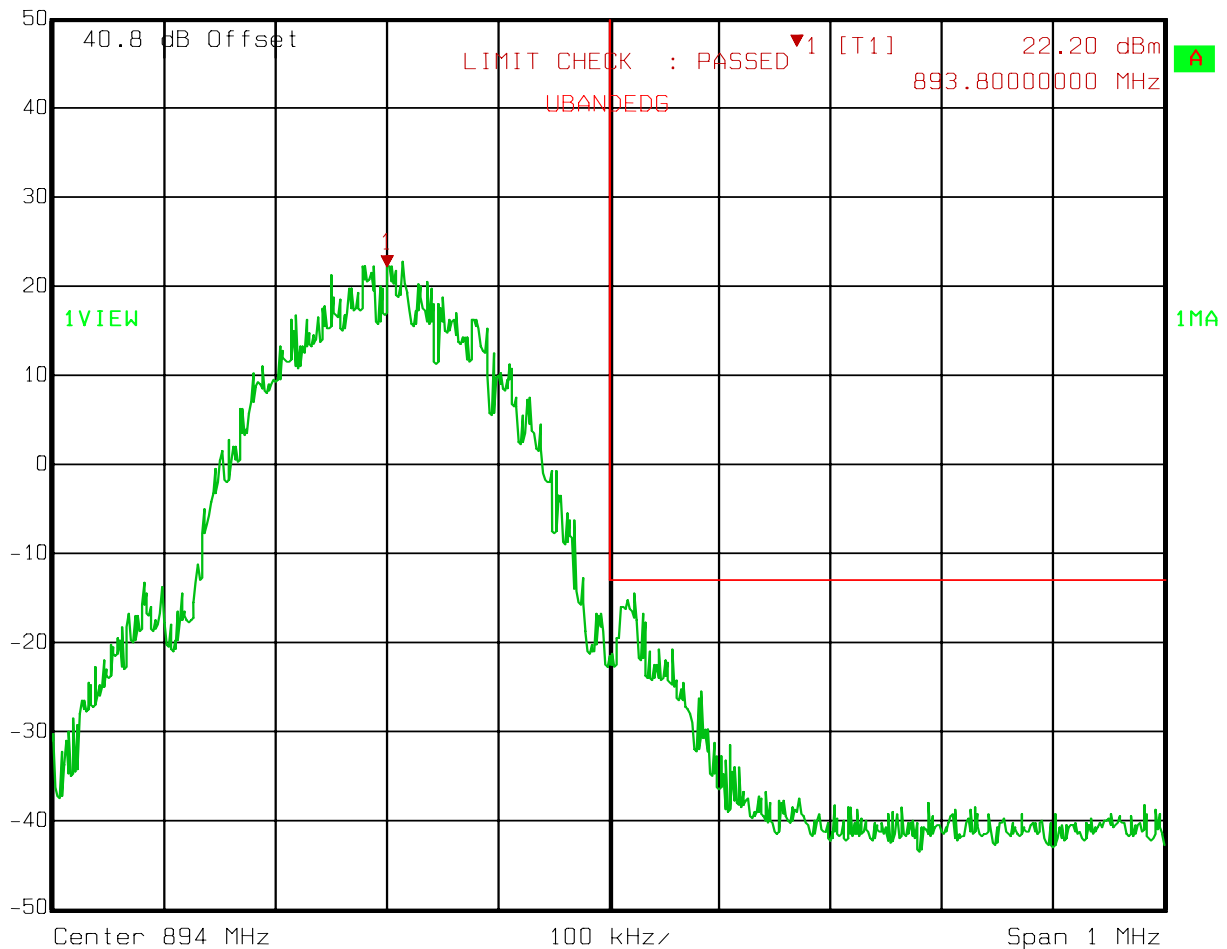
**Test Data – Spurious Emissions at Antenna Terminals**

893.8 MHz at 3 watts output

GSM



Marker 1 [T1] RBW 3 kHz RF Att 30 dB  
Ref Lvl 22.20 dBm VBW 3 kHz  
50 dBm 893.8000000 MHz SWT 280 ms Unit dBm



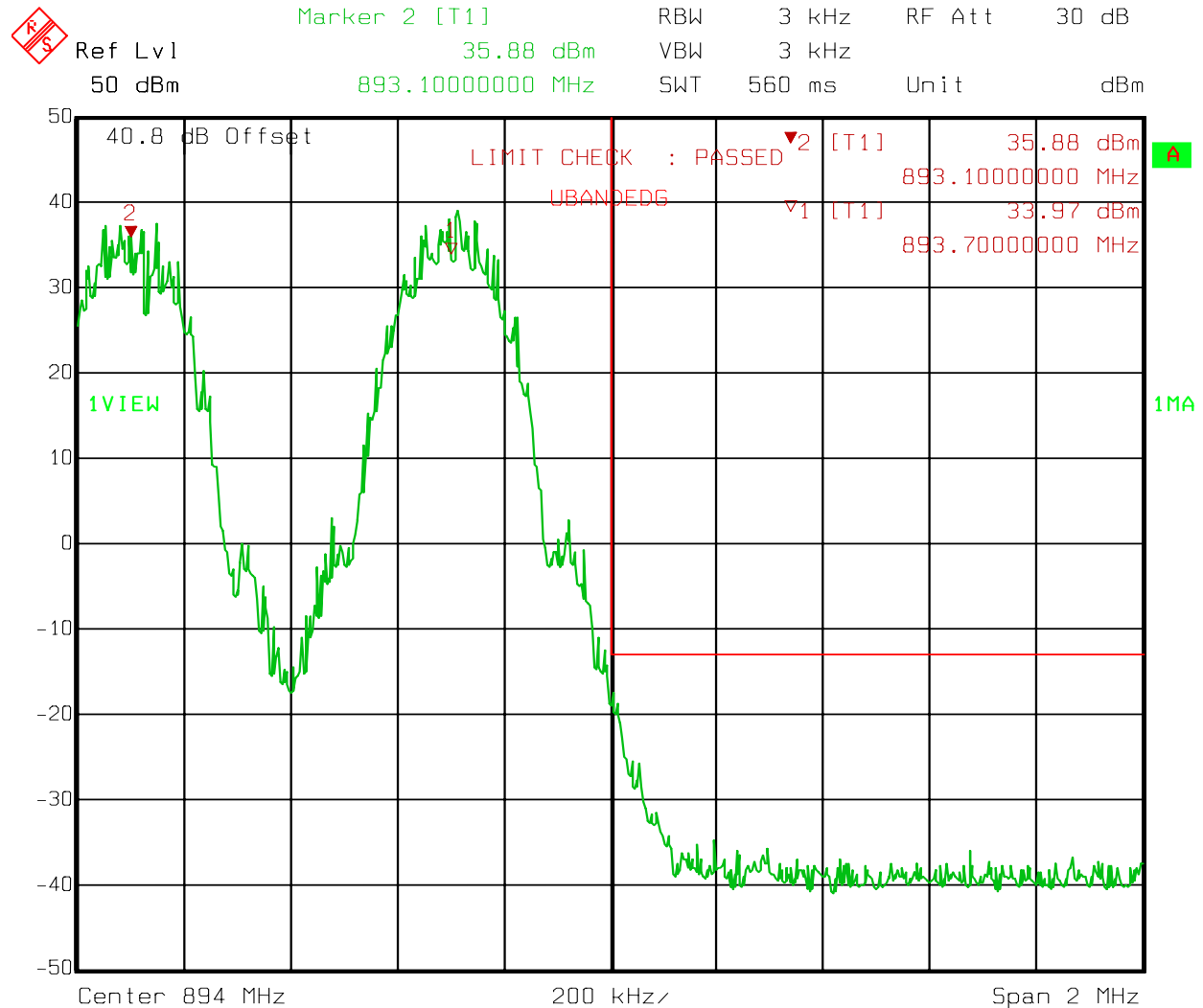
Date: 26.OCT.2005 14:51:42



**Test Data – Spurious Emissions at Antenna Terminals**

Lower band edge IM – Two channels at 62.5 watts each

GSM



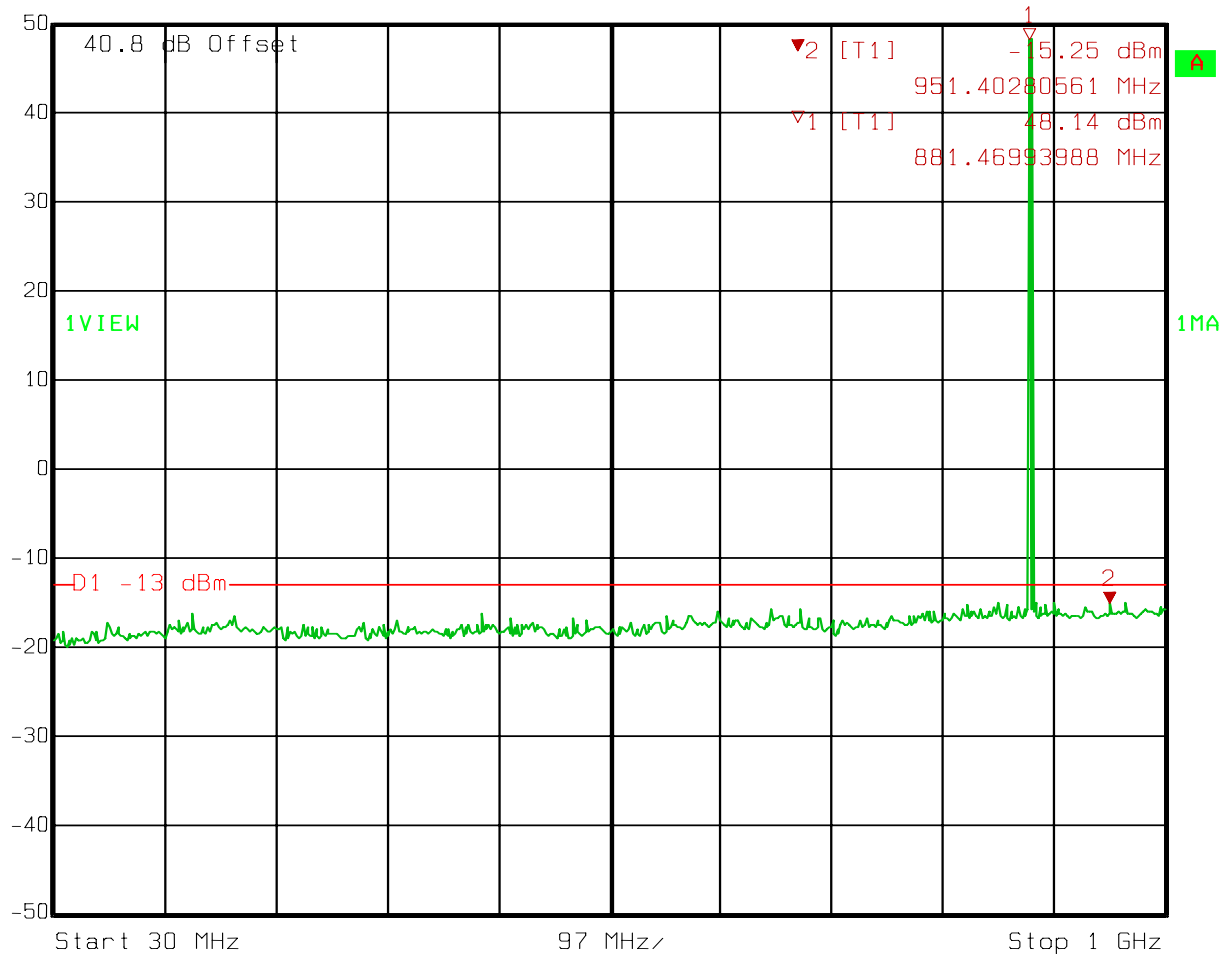
Date: 26.OCT.2005 14:55:28

## Test Data – Spurious Emissions at Antenna Terminals

GSM



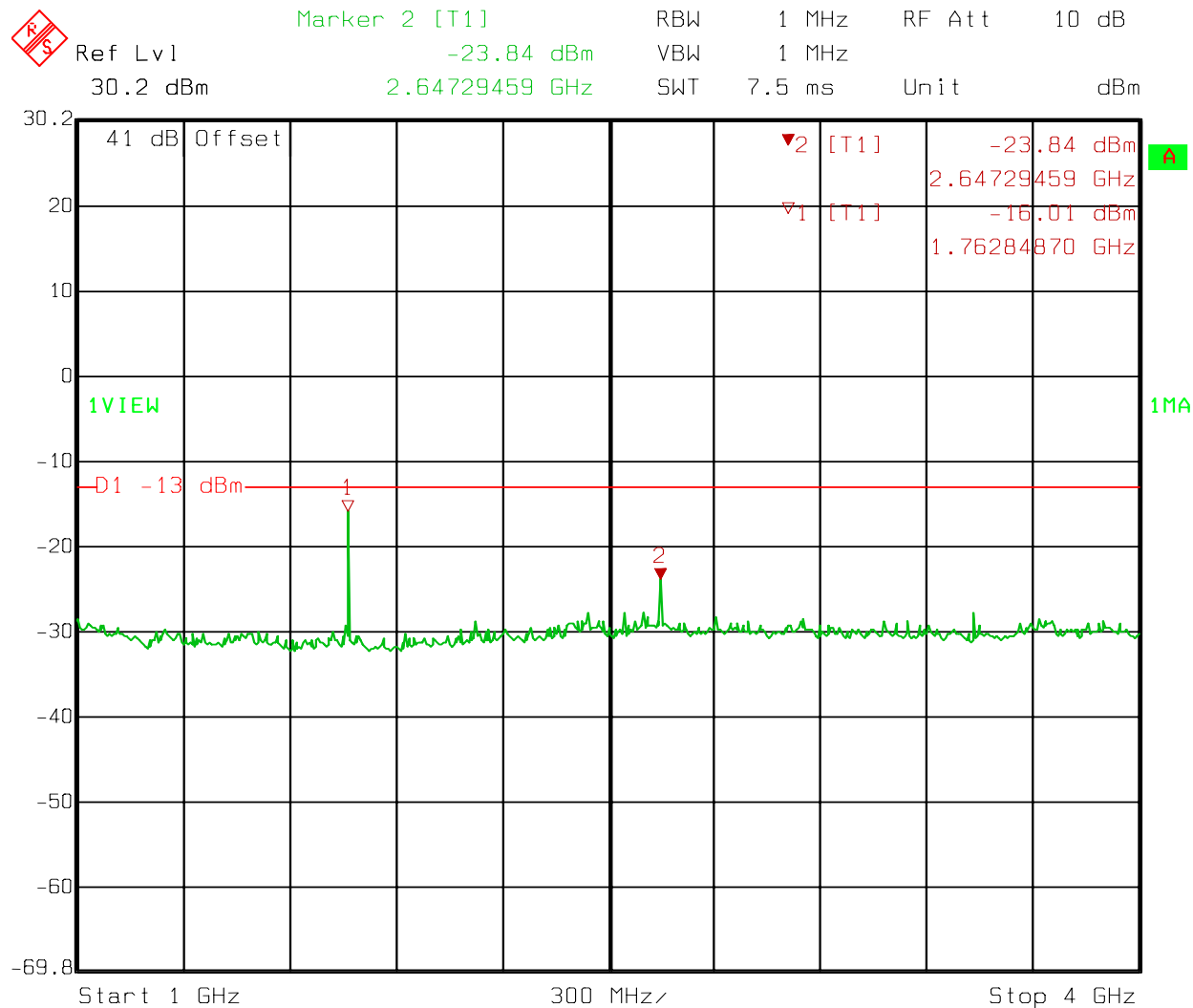
Marker 2 [T1] RBW 300 kHz RF Att 30 dB  
Ref Lvl -15.25 dBm VBW 300 kHz  
50 dBm 951.40280561 MHz SWT 27 ms Unit dBm



Date: 26.OCT.2005 14:59:20

## Test Data – Spurious Emissions at Antenna Terminals

GSM



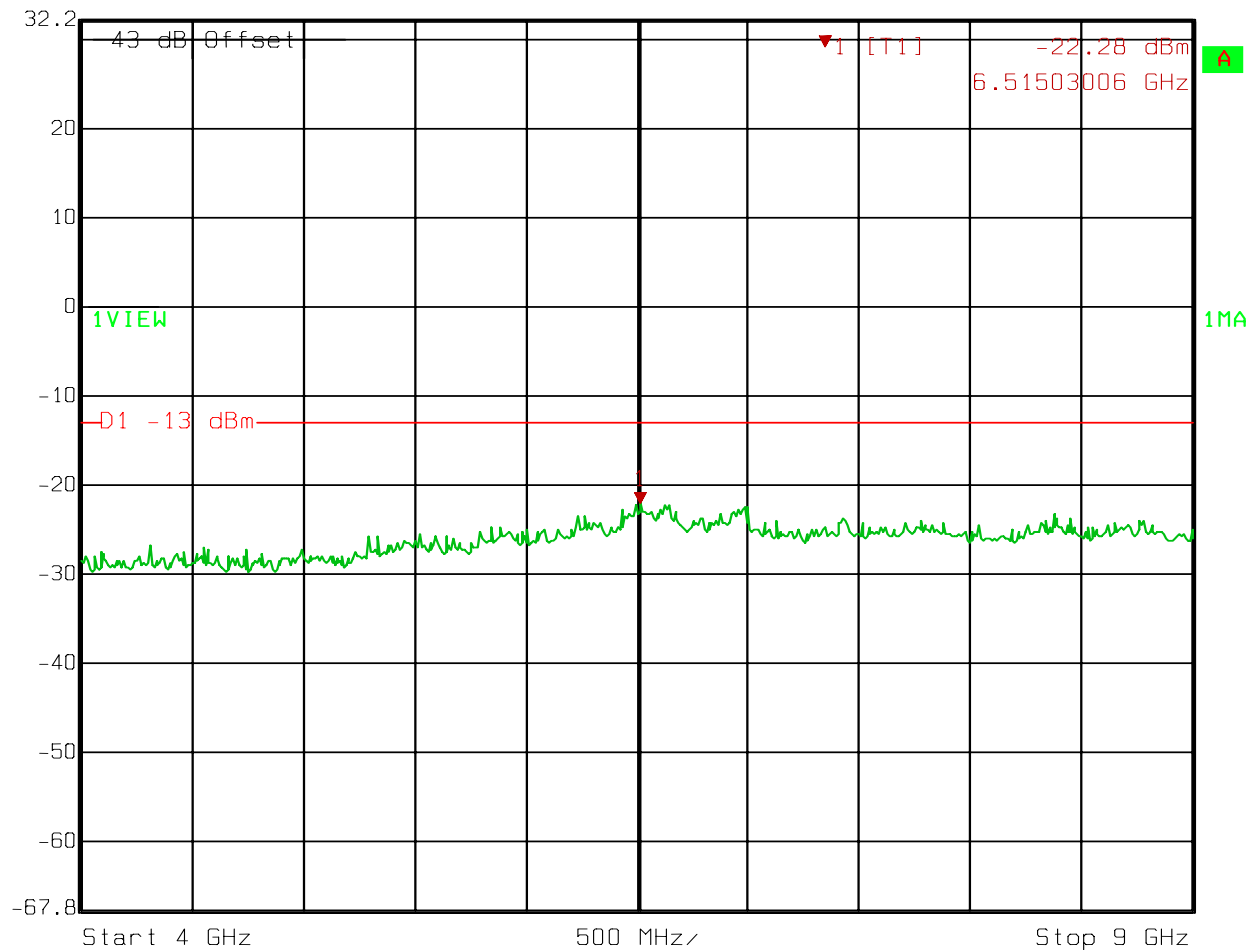
Date: 27.OCT.2005 09:19:20

## Test Data – Spurious Emissions at Antenna Terminals

GSM



Marker 1 [T1] RBW 1 MHz RF Att 10 dB  
Ref Lvl -22.28 dBm VBW 1 MHz  
32.2 dBm 6.51503006 GHz SWT 50 ms Unit dBm



Date: 27.OCT.2005 09:25:49

The spectrum was investigated on three channels. The data presented is representative of all channels tested.

## Test Data – Spurious Emissions at Antenna Terminals

EDGE

Lowest channel - 5.8 watts



Ref Lvl

50 dBm

Marker 1 [T1]

18.56 dBm

869.20000000 MHz

RBW

3 kHz

RF Att

30 dB

VBW

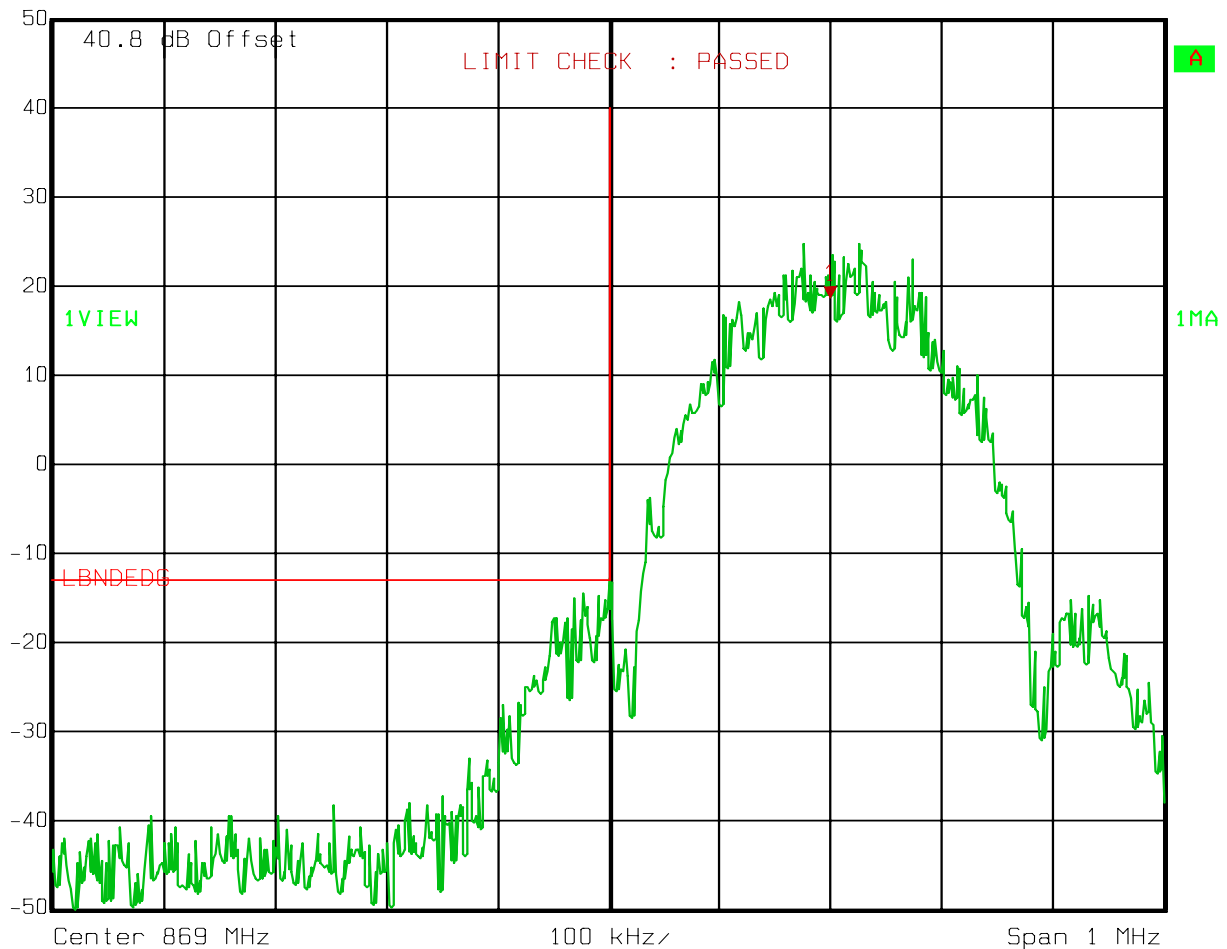
3 kHz

SWT

280 ms

Unit

dBm



Date: 27.OCT.2005 08:39:34

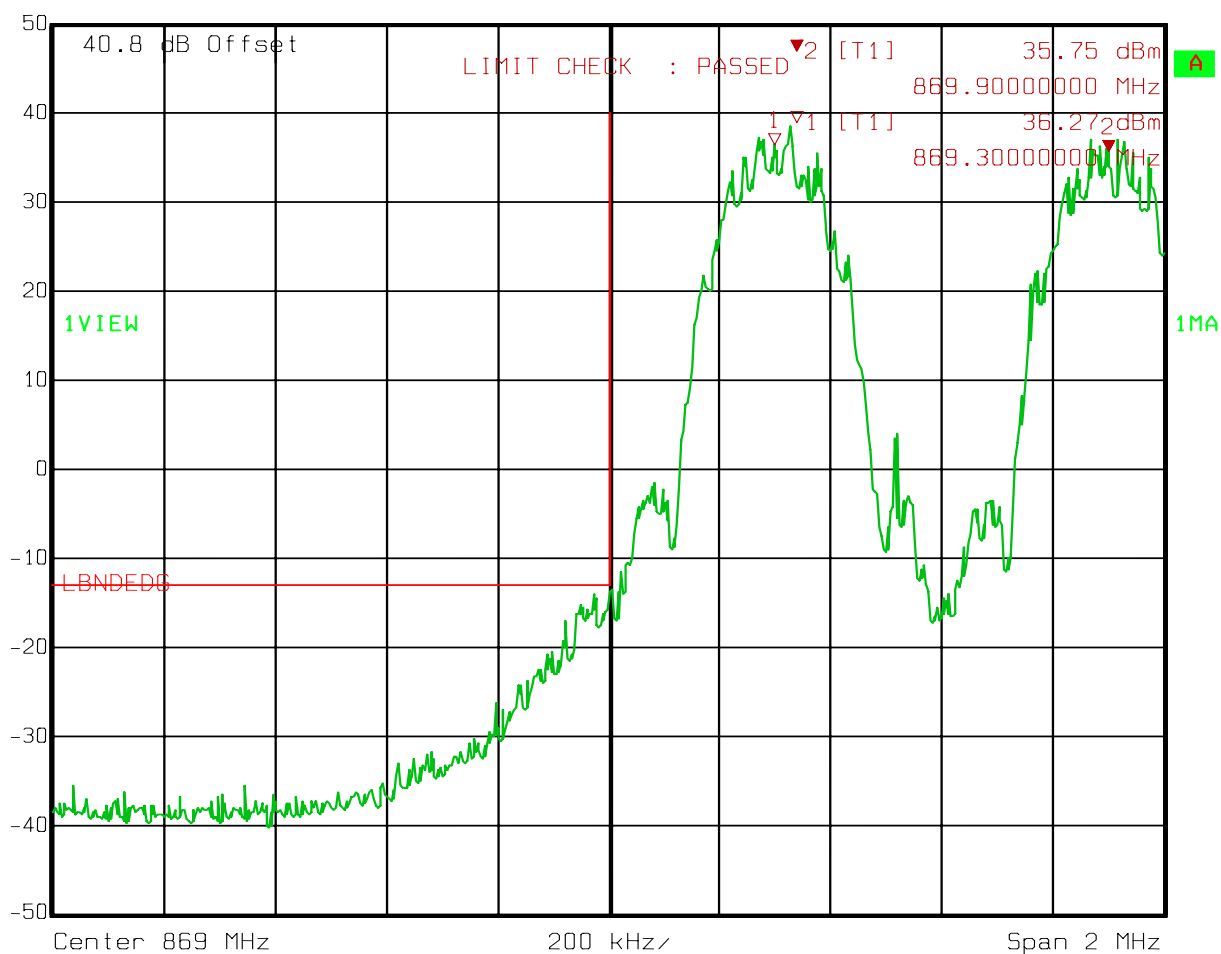
## Test Data – Spurious Emissions at Antenna Terminals

EDGE

Two channels at 62.5 watts each



Ref Lvl 50 dBm  
Marker 2 [T1] 35.75 dBm  
869.90000000 MHz  
RBW 3 kHz  
VBW 3 kHz  
SWT 560 ms  
RF Att 30 dB  
Unit dBm



Date: 27.OCT.2005 08:44:13

## Test Data – Spurious Emissions at Antenna Terminals

EDGE

Highest channel – 5.8 watts



Ref Lvl

50 dBm

Marker 1 [T1]

22.28 dBm

893.80000000 MHz

RBW

3 kHz

RF Att

30 dB

VBW

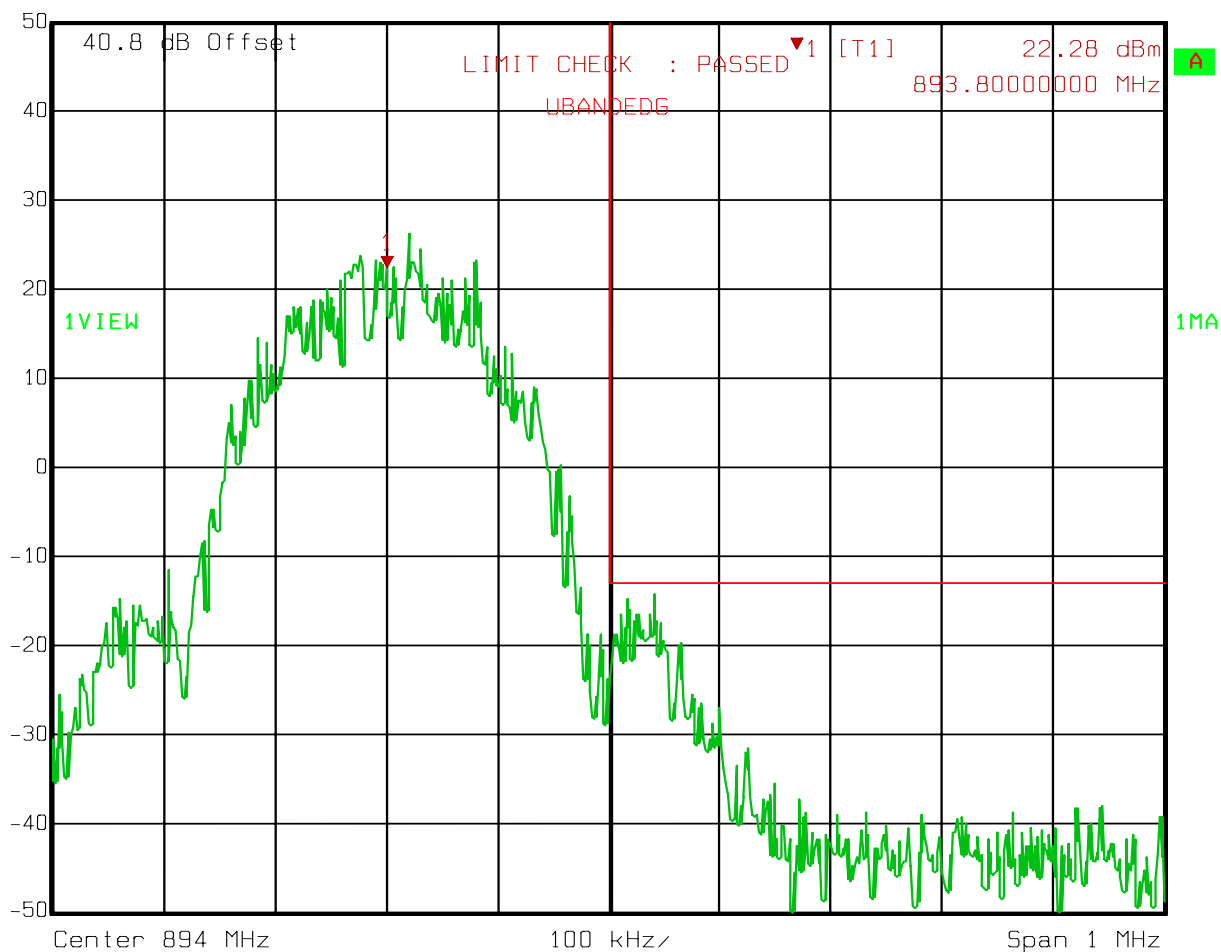
3 kHz

SWT

280 ms

Unit

dBm



Date: 27.OCT.2005 08:48:58

## Test Data – Spurious Emissions at Antenna Terminals

EDGE

Two channels – 62.5 watts each



Ref Lvl

50 dBm

Marker 2 [T1]

33.97 dBm

893.10000000 MHz

RBW

3 kHz

RF Att

30 dB

VBW

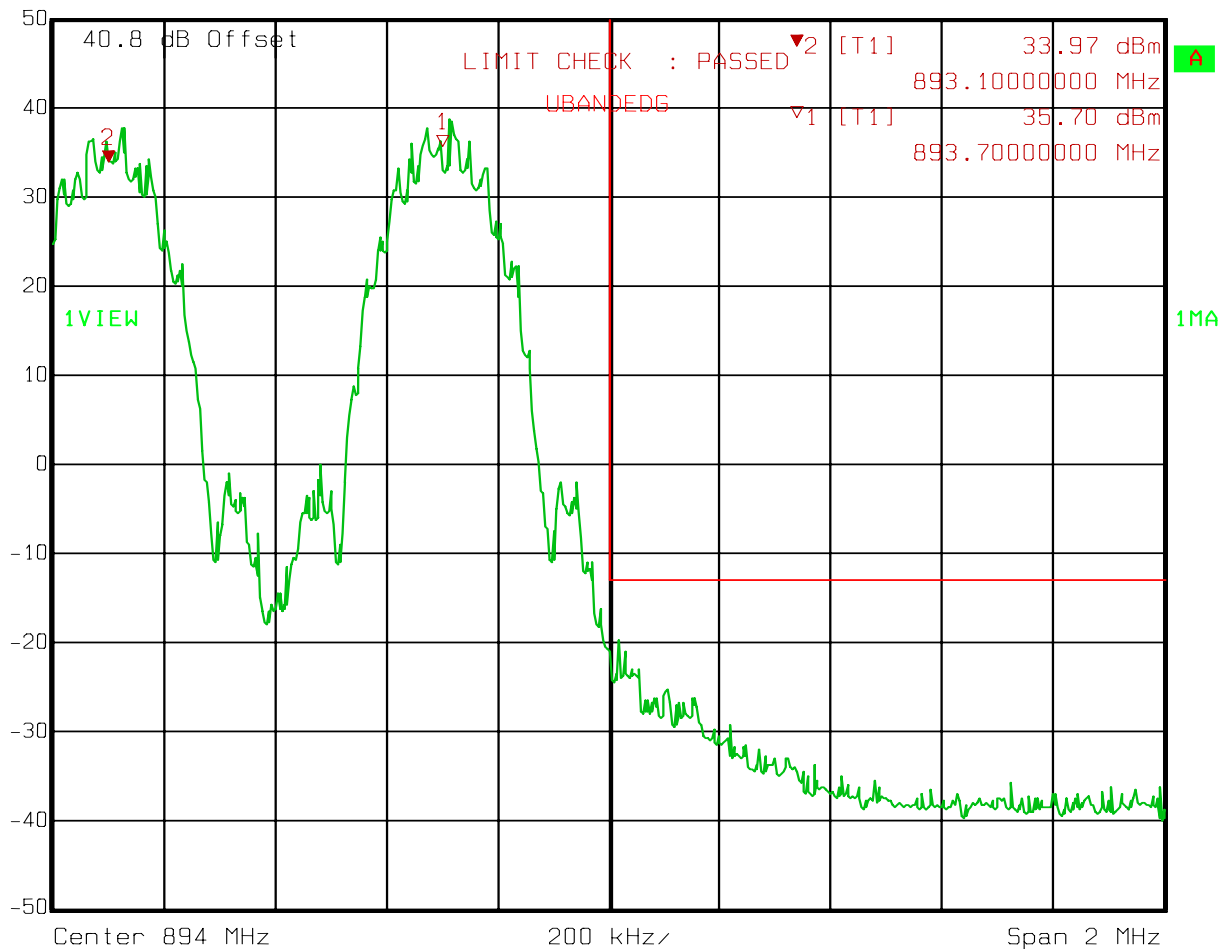
3 kHz

SWT

560 ms

Unit

dBm

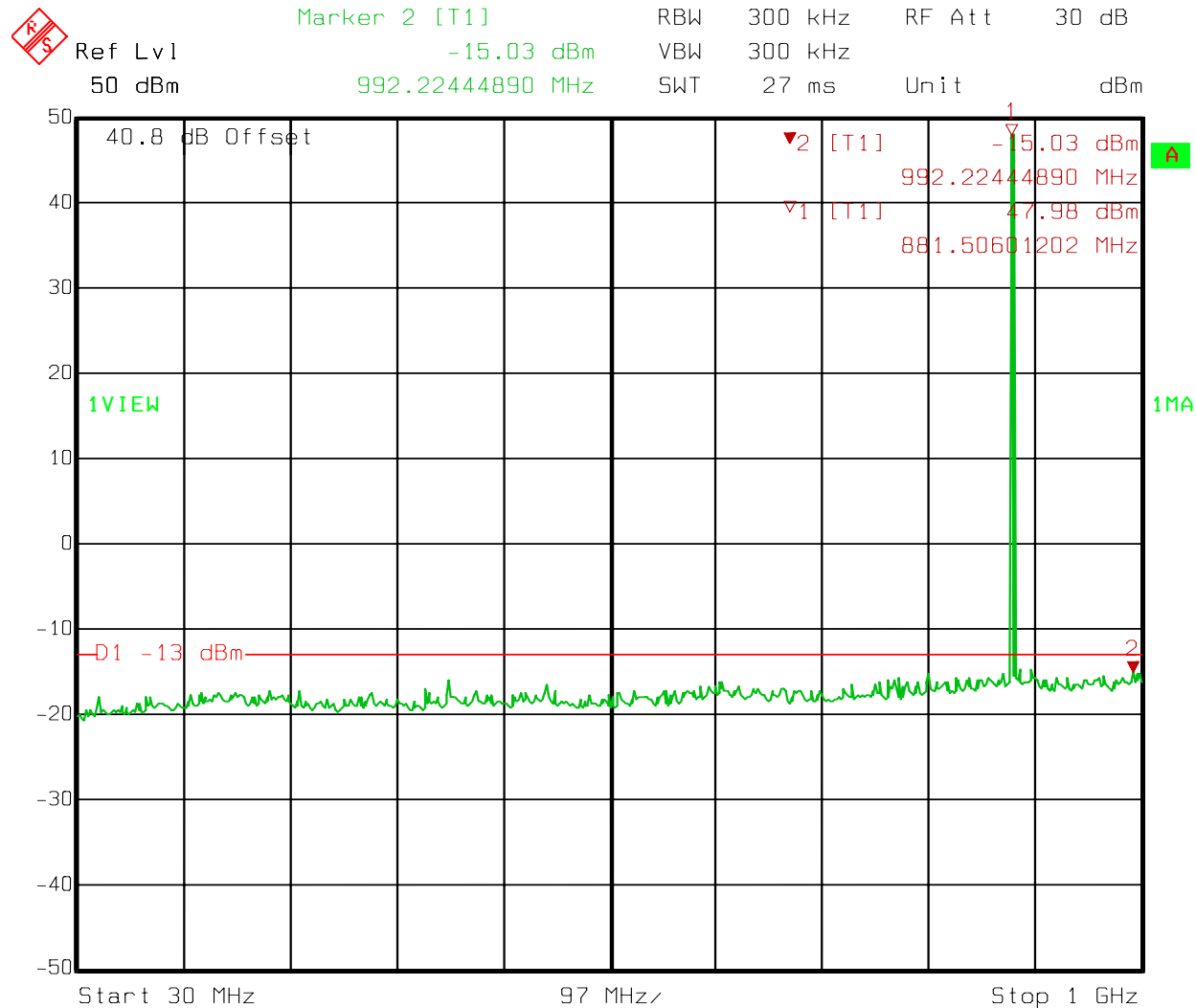


Date: 27.OCT.2005 08:53:25



# Test Data – Spurious Emissions at Antenna Terminals

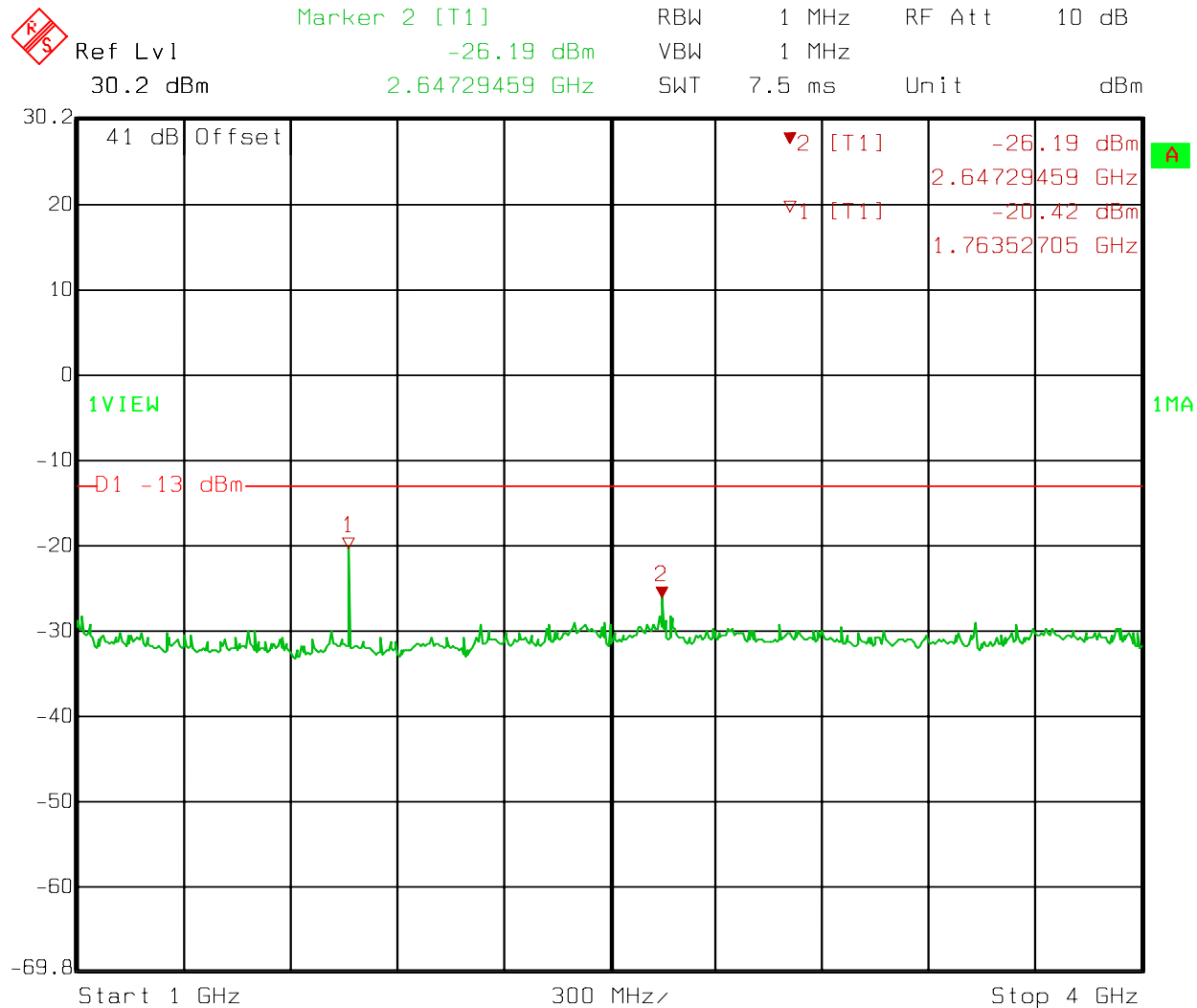
EDGE



Date: 27.OCT.2005 08:56:47

## Test Data – Spurious Emissions at Antenna Terminals

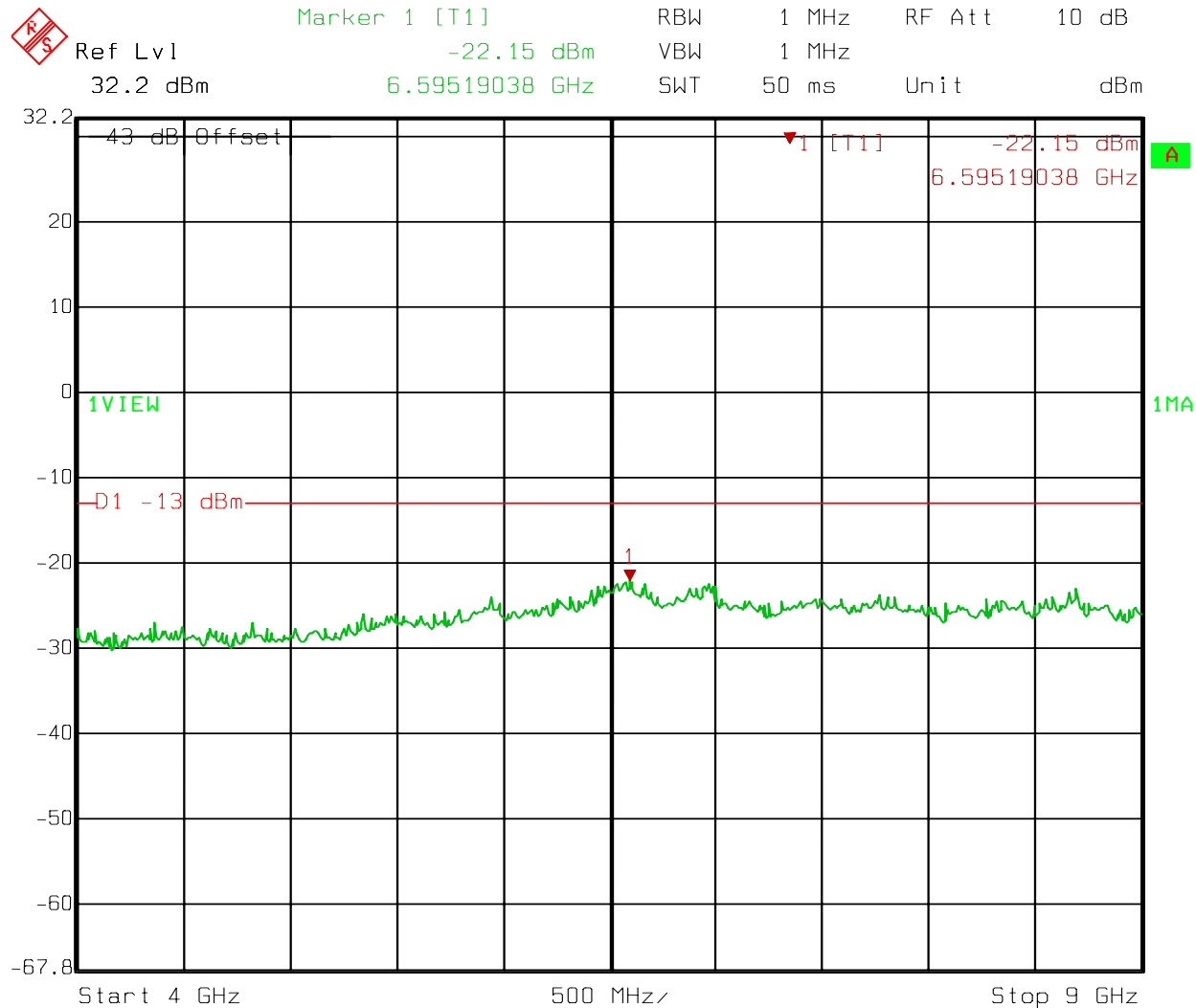
EDGE



Date: 27.OCT.2005 09:33:48

## Test Data – Spurious Emissions at Antenna Terminals

EDGE



Date: 27.OCT.2005 09:30:46

The spectrum was investigated on three channels. The data presented is representative of all channels tested.

**Section 6. Field Strength of Spurious**

NAME OF TEST: Field Strength of Spurious	PARA. NO.: 2.1053
TESTED BY: David Light	DATE:14 May 2004

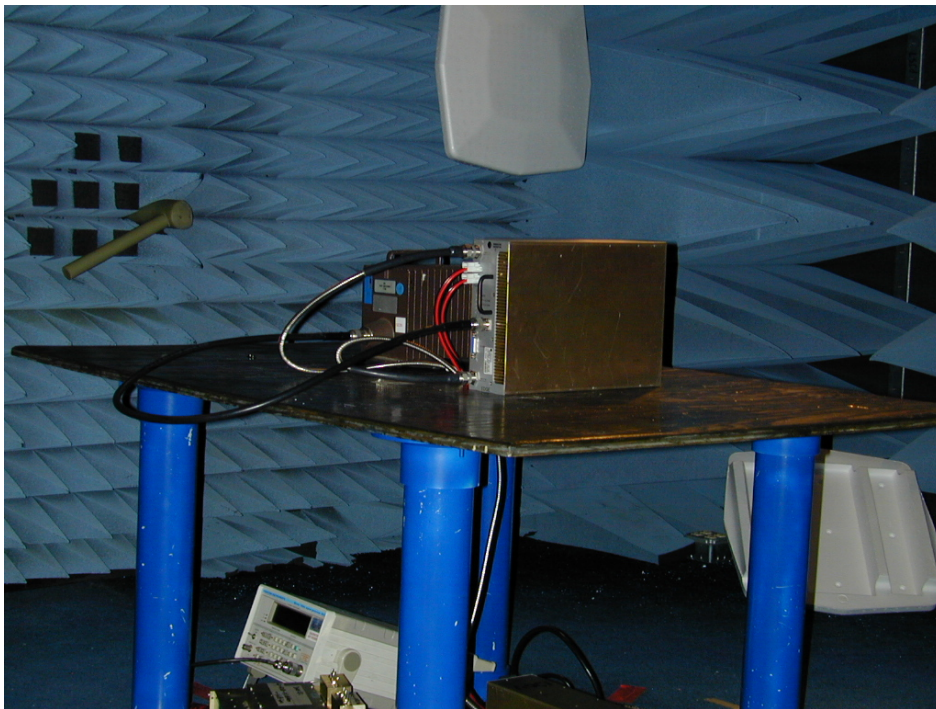
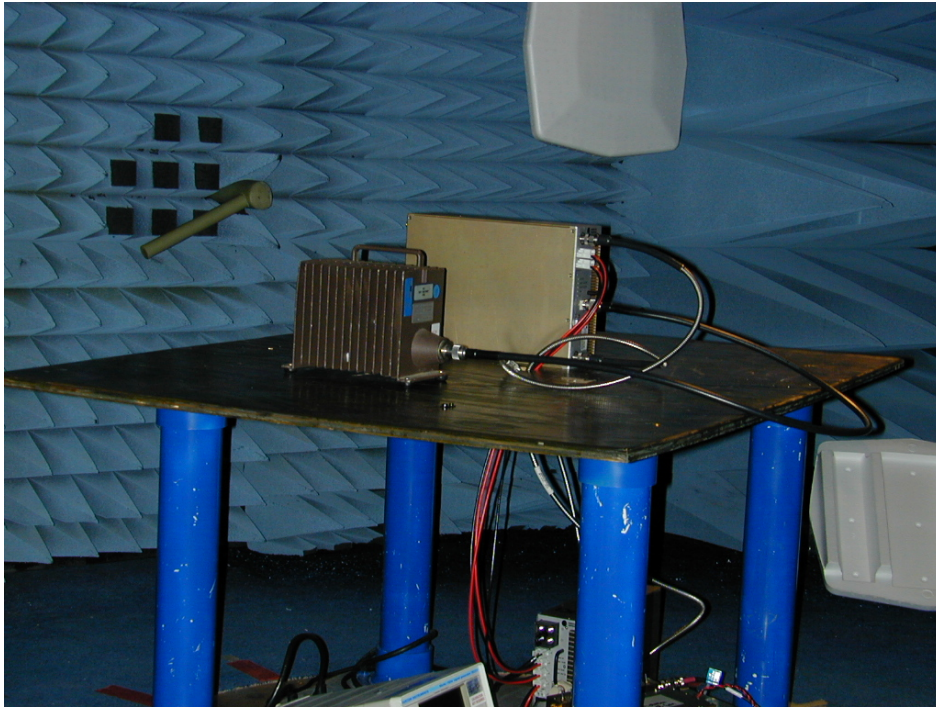
**Test Results:** Complies.

**Test Data:** See attached table.

## Test Data – Field Strength of Spurious Emissions

<u>ERP Substitution Method</u>										
Page <u>1</u> of <u>1</u>							Complete <u>  x  </u>			
Job No.:	4L0360		Date:		5/14/2004		Preliminary <u>          </u>			
Specification:	PT22		Temperature(°C):		<u>20</u>					
Tested By:	<u>David Light</u>		Relative Humidity(%):		<u>60</u>					
E.U.T.:	<u>DAC-850-125</u>									
Configuration:	<u>Tx full power into load</u>									
Sample No:	<u>1</u>									
Location:	<u>AC 3</u>		RBW:		<u>1 MHz</u>		Measurement			
Detector Type:	<u>Peak</u>		VBW:		<u>1 MHz</u>		Distance: <u>3</u> m			
<b>Test Equipment Used</b>										
Antenna:	<u>1304</u>		Directional Coupler:		<u>                                </u>					
Pre-Amp:	<u>1016</u>		Cable #1:		<u>1484</u>					
Filter:	<u>          </u>		Cable #2:		<u>1485</u>					
Receiver:	<u>1464</u>		Cable #3:		<u>                                </u>					
Attenuator #1:	<u>          </u>		Cable #4:		<u>                                </u>					
Attenuator #2:	<u>          </u>		Mixer:		<u>                                </u>					
Additional equipment used: <u>  </u>										
Measurement Uncertainty: <u>  +/-1.7 dB  </u>										
Frequency (MHz)	Meter Reading (dBm)	Substitution Level (dBm)		Pre-Amp Gain (dB)	Substitution Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarity	Comments
1763	-32.0	-33.8		32.9	6.2	-27.6	-13.0	-14.5700	V	
2644.5	-26.0	-22.1		33	7.1	-15.0	-13.0	-1.9600	V	
3526	-48.7	-38.8		32.6	8.0	-30.9	-13.0	-17.8500	V	
4407.5	-69.3	-55.9		32.4	7.9	-48.0	-13.0	-35.0200	V	
5289	-73.0	-63.3		32.3	8.5	-54.8	-13.0	-41.7900	V	
6170.5	-74.6	-66.0		31.6	9.1	-56.9	-13.0	-43.8700	V	
7052	-73.0	-64.3		32.1	9.5	-54.9	-13.0	-41.8500	V	
7933.5	-72.0	-63.3		32.9	9.0	-54.3	-13.0	-41.3400	V	
8815	-73.0	-65.7		33.9	9.6	-56.2	-13.0	-43.1500	V	
1763	-34.2	-33.6		32.9	6.2	-27.4	-13.0	-14.3700	H	
2644.5	-25.6	-25.0		33	7.1	-17.9	-13.0	-4.8600	H	
3526	-46.2	-44.9		32.6	8.0	-37.0	-13.0	-23.9500	H	
4407.5	-66.5	-64.0		32.4	7.9	-56.1	-13.0	-43.1200	H	
5289	-73.0	-67.2		32.3	8.5	-58.7	-13.0	-45.6900	H	
6170.5	-74.6	-68.8		31.6	9.1	-59.7	-13.0	-46.6700	H	
7052	-73.0	-65.7		32.1	9.5	-56.3	-13.0	-43.2500	H	
7933.5	-72.0	-64.5		32.9	9.0	-55.5	-13.0	-42.5400	H	
8815	-73.0	-65.5		33.9	9.6	-56.0	-13.0	-42.9500	H	
Notes: <u>  </u>										

**Test Setup Photos**



**Section 7. Test Equipment List****Conducted Tests**

Nemko ID	Description	Manufacturer Model Number	Serial Number	Calibration Date	Calibration Due
1036	SPECTRUM ANALYZER	ROHDE & SCHWARZ FSEK30	830844/006	03/22/04	03/23/06
1053	SIGNAL GENERATOR	ROHDE & SCHWARZ SMIQ 03	DE22081	06/10/03	06/11/06
1055	DUAL DIRECTIONAL COUPLER	NARDA 3022	73393	CBU	N/A
1054	DUAL DIRECTIONAL COUPLER	NARDA 3020A	34366	CBU	N/A
1058	DUAL DIRECTIONAL COUPLER	HEWLETT PACKARD 11692D	1212A03366	CBU	N/A
1064	ATTENUATOR	NARDA 776B-20	NONE	CBU	N/A
1067	Blue cable 4m	Storm PR90-010-144	0	CBU	N/A
1060	TUNABLE NOTCH FILTER	K&L 3TNF-500/1000-N/N	162	CBU	N/A

**Radiated Tests**

Nemko ID	Description	Manufacturer Model Number	Serial Number	Calibration Date	Calibration Due
1304	HORN ANTENNA	ELECTRO METRICS RGA-60	6151	09/22/03	09/22/05
1016	Pre-Amp	HEWLETT PACKARD 8449A	2749A00159	10/27/03	10/27/04
1464	Spectrum analyzer	Hewlett Packard 8563E	3551A04428	02/11/03	02/11/05
1484	Cable 2.0-18.0 Ghz	Storm PR90-010-072	N/A	07/24/03	07/24/04
1485	Cable 2.0-18.0 Ghz	Storm PR90-010-216	N/A	07/24/03	07/24/05

**Nemko USA, Inc.**

**FCC PART 22, SUBPART H**

**850 MHz Cellular Band Amplifier**

**EQUIPMENT: DAC-850-125**

**Test Report No.: 52047RUS1**

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## **ANNEX A - TEST DETAILS**



NAME OF TEST: RF Power Output

PARA. NO.: 2.1046

**Minimum Standard:** Para. No. 22.913(a). The maximum effective radiated power (ERP) of base transmitters and cellular repeaters must not exceed 500 watts.

**Method of Measurement:**

Detachable Antenna:

The peak power at antenna terminals is measured using an in-line peak power meter or a spectrum analyzer with sufficient bandwidth. Power output is measured with the maximum rated input level.

Integral Antenna:

TIA/EIA-603-1992, Section 2.2.12

The antenna substitution method was used to determine the equivalent radiated power at spurious frequencies. The spurious emissions were measured at a distance of 3 meters. The EUT was then replaced with a reference substitution antenna with a known gain referenced to a dipole. This antenna was fed with a signal at the spurious frequency. The level of the signal was adjusted to repeat the previously measured level. The resulting erp is the signal level fed to the reference antenna corrected for gain referenced to a dipole.

NAME OF TEST: Occupied Bandwidth

PARA. NO.: 2.1049

**Minimum Standard:** Not defined by FCC. Input vs. Output.

**Method Of Measurement:**

Spectrum Analyzer Settings:

RBW: 3 kHz

VBW:  $\geq$  RBW

Span: 1 MHz

Sweep: Auto

NAME OF TEST: Spurious Emission at Antenna Terminals	PARA. NO.: 2.1051
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**Minimum Standard:**

Para. No. 22.917(a). Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB. This is equivalent to -13 dBm absolute power.

**Method Of Measurement:**

Spectrum Analyzer Settings:

RBW: >100 kHz below 1000 MHz / 1 MHz above 1000 MHz

VBW:  $\geq$  RBW

Start Frequency: 30 MHz

Stop Frequency: 9 GHz

Sweep: Auto

NAME OF TEST: Field Strength of Spurious Radiation

PARA. NO.: 2.1053

**Minimum Standard:** Para. No. 22.917(a). Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB. This is equivalent to -13 dBm absolute power.

**Test Method:**

TIA/EIA-603-1992, Section 2.2.12

The antenna substitution method was used to determine the equivalent radiated power at spurious frequencies. The spurious emissions were measured at a distance of 3 meters. The EUT was then replaced with a reference substitution antenna with a known gain referenced to a dipole. This antenna was fed with a signal at the spurious frequency. The level of the signal was adjusted to repeat the previously measured level. The resulting erp is the signal level fed to the reference antenna corrected for gain referenced to a dipole.

**NAME OF TEST: Frequency Stability****PARA. NO.: 2.1055**

**Minimum Standard:** Para. No. 22.355. The transmitter carrier frequency shall remain within the tolerances given in Table C-1.

Table C-1

Freq. Range (MHz)	Base, fixed	Mobile > 3 W	Mobile $\leq$ 3 W
821 to 896	1.5	2.5	2.5

**Method Of Measurement:**Frequency Stability With Voltage Variation:

The E.U.T. is placed in an environmental chamber and allowed to stabilize at +20 degrees Celsius for at least 15 minutes. The frequency counter and signal generator are phase locked with the same 10 MHz reference frequency by connecting the 10 MHz ref. out of the counter to the 10 MHz ref, in of the signal generator. With the voltage input to the E.U.T. set to 85% S.T.V., the frequency is measured in 30 second intervals for a period of 5 minutes. This procedure is repeated at 100% S.T.V. and 115% S.T.V.

Frequency Stability With Temperature Variation:

The input voltage to the E.U.T. is set to S.T.V. and the temperature of the environmental chamber is varied in 10 degree steps from -30 degrees C to +50 degrees C. The E.U.T. is allowed to stabilize at each temperature and the frequency is measured in 30 second intervals for a period of 5 minutes.

**Nemko USA, Inc.**

**FCC PART 22, SUBPART H**

**850 MHz Cellular Band Amplifier**

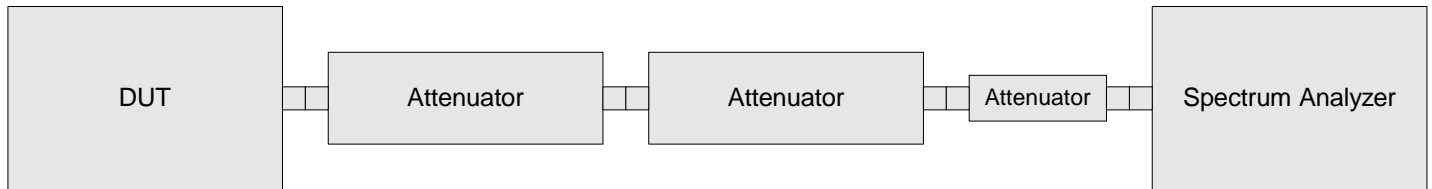
**EQUIPMENT: DAC-850-125**

**Test Report No.: 52047RUS1**

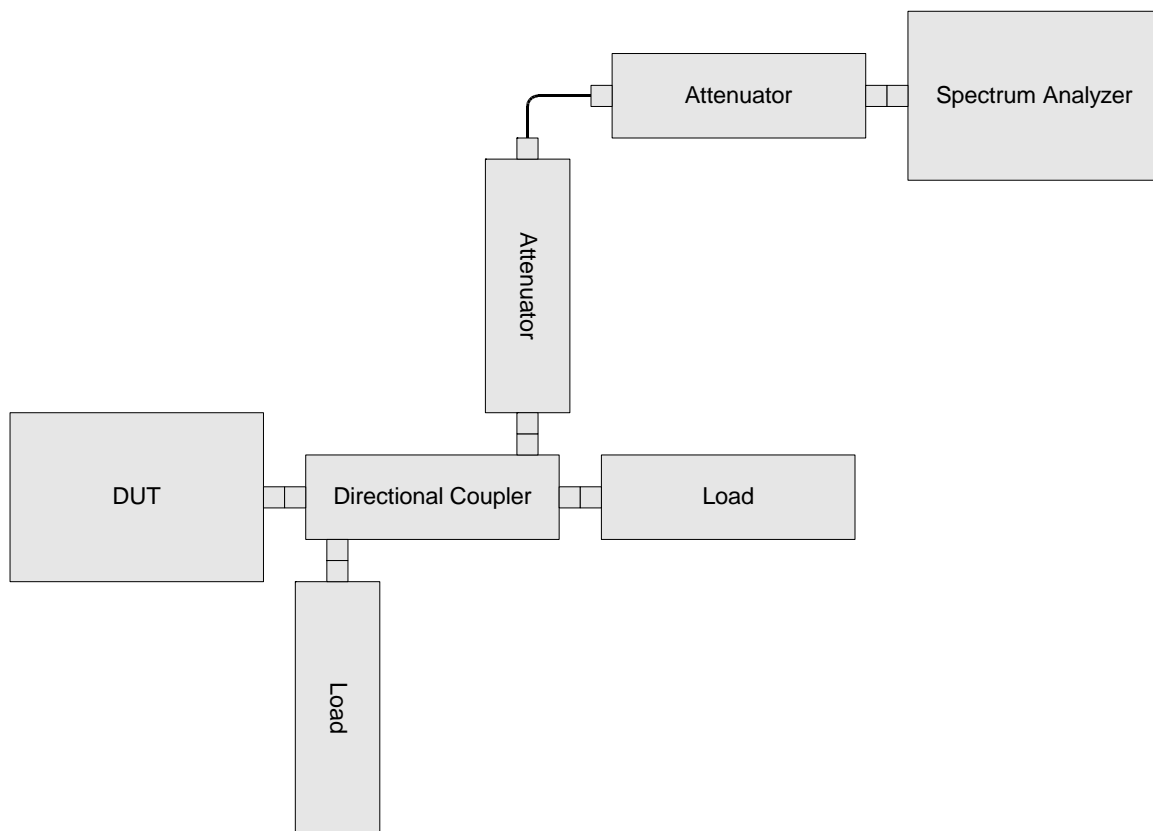
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## **ANNEX B - TEST DIAGRAMS**

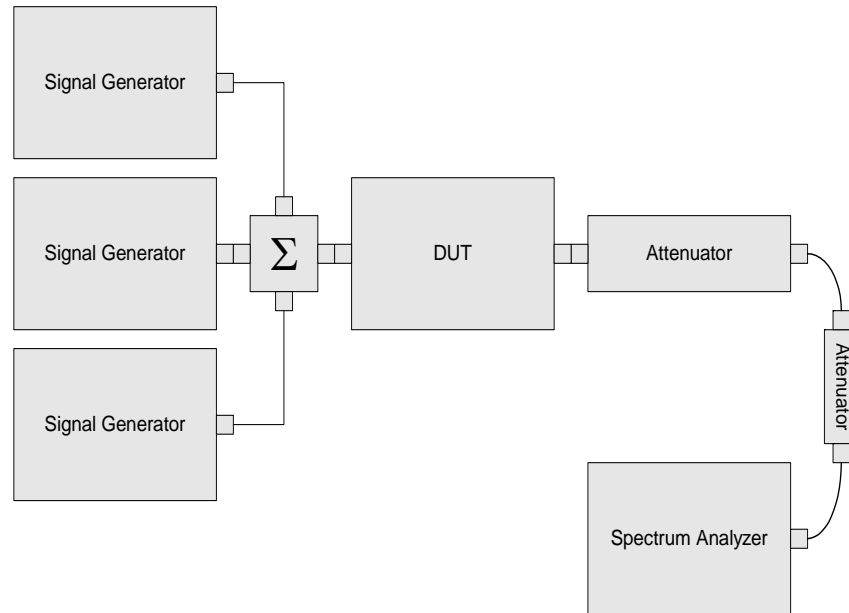
**Para. No. 2.1046 - R.F. Power Output**



**Para. No. 2.1049 - Occupied Bandwidth**

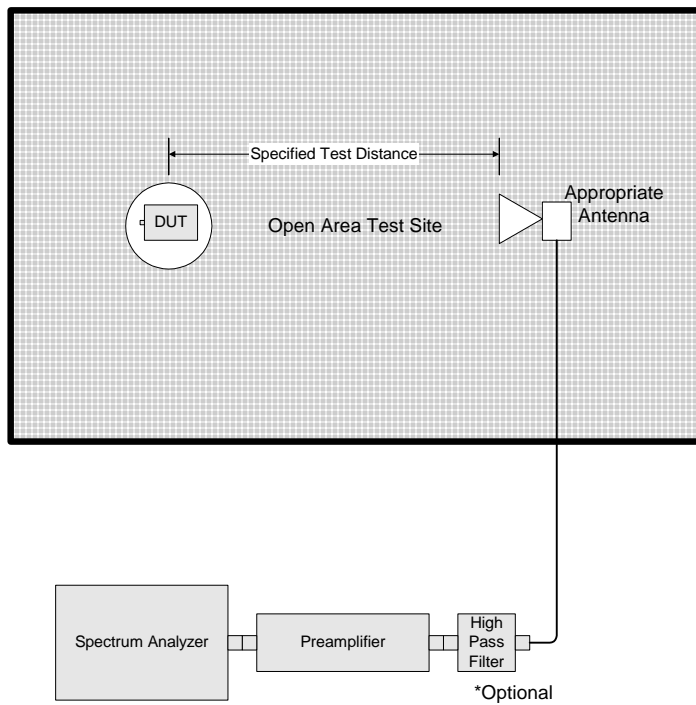
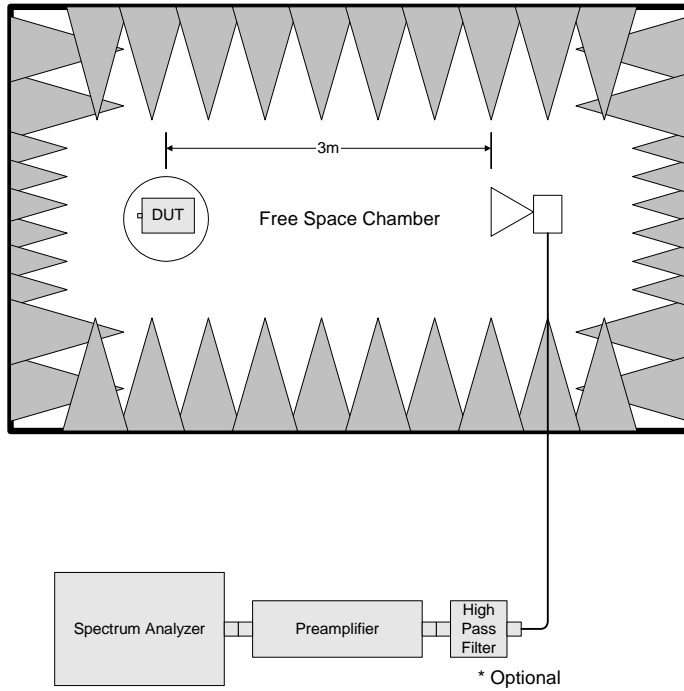


**Para. No. 2.1051 Spurious Emissions at Antenna Terminals**





Para. No. 2.1053 - Field Strength of Spurious Radiation



Para. No. 2.1055 - Frequency Stability

