

Test Report Summary FCC CFR 47, Part 22 Subpart H Cellular Radiotelephone Service

Manufacturer:	ADC Telecommunications
Name of Equipment:	<u> Bi-Directional Amplifier – Cellular</u>
Model Number(s):	RPT-SBAAA12000
Manufacturer's Address:	<u>P.O. Box 1101</u> Minneapolis, MN 55440-1101
Test Report Number:	<u>MN070817</u>
Test Date(s):	<u>26 July, 2007 (ETL)</u> <u>31 July, 2007 (ADC)</u>

According to testing performed at Intertek, the above-mentioned unit is in accordance with the applicable electromagnetic compatibility (EMC) portions of the requirements defined in FCC Part 22.

It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical characteristics. Any modifications necessary for compliance made during testing on the above mentioned date(s) must be implemented in all production units for compliance to be maintained.

All testing was done in accordance with the Federal Communications Commission's CFR 47 Part 22 and the EUT fulfills the requirements of the Federal Communications Commission's CFR 47 Part 22.

Date: 17 August, 2007

Location: Intertek Testing Services (ETL) 7250 Hudson Blvd., Suite 100 Oakdale, MN 55128 Phone: (651) 730-1188 Fax: (651) 730-1282

Testing Conducted by (ADC): And Report Written by: ADC Telecommunications 5341 12th Ave E Shakopee, MN 55379 Phone: (952) 403-8340 Fax: (952) 403-8858

Mark F. Mesha

Mark F. Miska Compliance Engineer

ADC Telecommunications

1 of 98 MN070817



EMC Emission – TEST REPORT

Test Report File Number:	<u>MN070817</u>	Date of Issue:	<u>17 July, 2007</u>
Model Number(s):	RPT-SBAAA12000		
Product Name:	Bi-Direction	<u>nal Amplifier – Cel</u>	lular
Product Type:	Amplifier		
Applicant:	ADC Teleco	ommunications	
Manufacturer:	ADC Telecommunications		
License Holder:	ADC Telecommunications		
Address:	P.O. Box 1101 <u>Minneapolis, MN 55440-1101</u>		
Test Result:		Positive	^D Negative
Test Project Number: Reference(s)		<u>3129667MIN-007</u>	<u>1</u>
Total pages including App	endices:	<u>98</u>	



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1.0 **REVISION DESCRIPTION**

Rev	Total Pages	Date	Description
Α	98	July 17, 2007	Original Release

2.0 **DOCUMENTATION**

2.1 Test Regulations

22.355	Frequency tolerance

22.913 Effective radiated power limits

22.917 Emission limitations for cellular

The emissions tests were performed according to the following regulations:

FCC Part 22

- FCC Part 24
- ^D FCC Part 90
- ^D IC RSS-131 Issue 2

Environmental Conditions in the lab:

ADC	<u>ETL</u>
Temperature: 25° C	15-35° C
Relative Humidity: 23%	30-60%
Atmospheric Pressure: 97.7 kPa	86-106 kPa

Power Supply Utilized:

Power Supply	System	: 1	phase,	60 Hz,	120 V	AC

2.2 Test Operation Mode

- ^D Standby
- Test Program
- ^D Practice Operation
- Max composite in and out

2.3 Configuration of the device under test:

Normal Operation – Cellular - 869 to 894 MHz

2.4 Product Options:

None

2.5 EUT Specifications and Requirements:

Length: 8.75" Width: 8.0" Height: 2.5" Weight: 7.85 pounds

2.6 Cables:

Cable Type	Length	From	То
RF	> 3M	Ancillary Equip	EUT
RF	< 3M	EUT	50 Ohm Load
Power	< 3M	Power	Input Power

2.7 Power Requirements:

Voltage: 120 VAC Amps: 0.8 A

2.8 Typical Installation and/or Operating Environment:

Indoor only. System is typically employed as an indoor repeater.

2.9 Other Special Requirements:

None

2.10 EUT Software:

Revision Level: Version 1.0.0 Description: Repeater PC Program. System Management Software

2.11 EUT System Components

Description	Model #	Serial #	FCC ID #
BDA	RPT-SBAAA12000	None	

2.12 Support Equipment

Description	Manufacturer	Model #	FCC ID #
Power Meter	HP	EPM-441A	
Signal Generator	Agilent	E4438C	
Attenuator	Aeroflex	49-30-33	

2.13 Deviations from standard:

Modifications required to pass:

^D As indicated on the data sheet(s)

None

2.14 Test Specification Deviations; Additions to or Exclusions from:

- ^D As indicated in the Test Plan
- None

2.15 General Remarks:

None.

2.16 Summary:

The requirements according to the technical regulations are

met

□ not Met

2.17 The equipment under test does

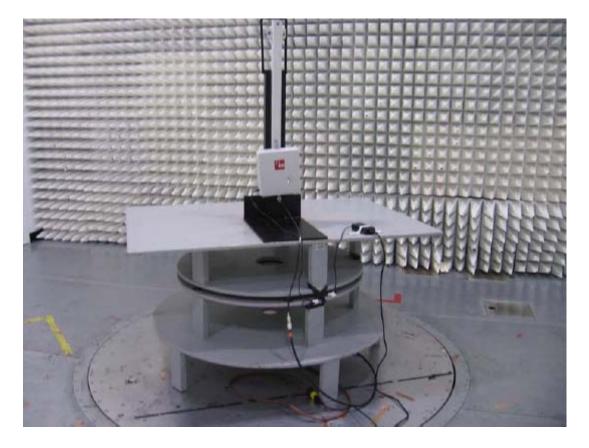
• fulfill the general approval requirements mentioned on page 4.

^D not fulfill the general approval requirements mentioned on page 4.

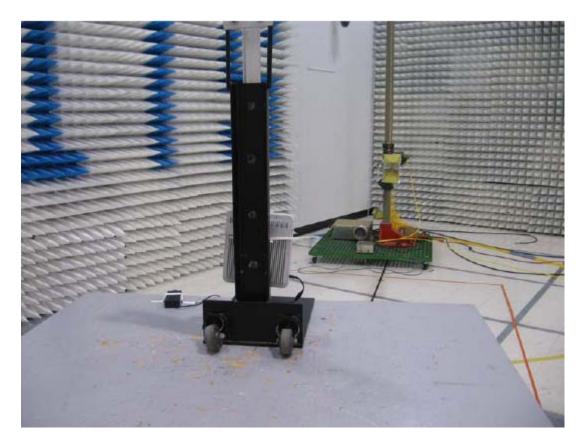
3.0 TEST SET-UP DRAWINGS AND PHOTOS

Back to Table of Contents:

3.1 Test set-up photo, radiated emissions



3.2 Test set-up photo, radiated emissions



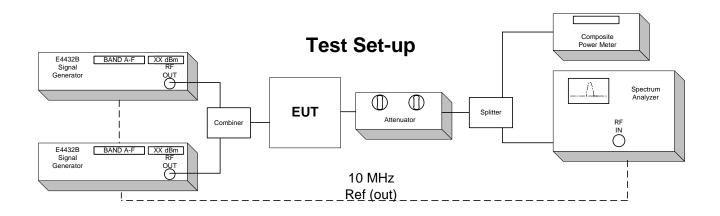
Conducted and Radiated Emission Limits Test for ADC Inc.

Conducted Output Power Test for ADC Inc

Inter-Modulation Test for ADC Inc.

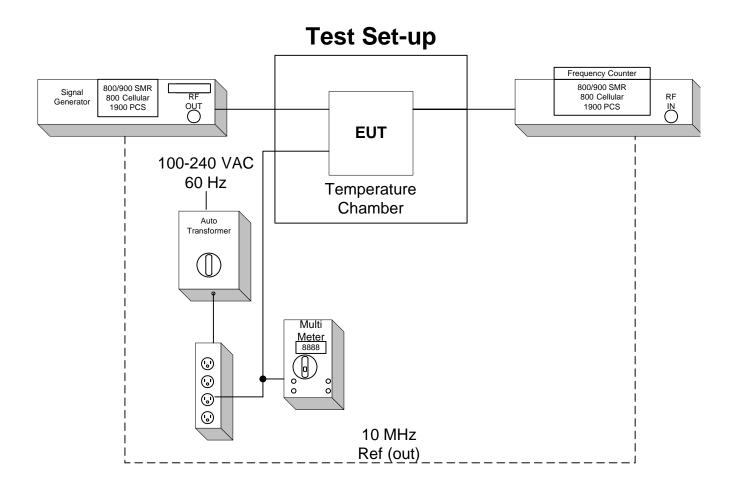
Occupied Bandwidth Modulation Test for ADC Inc.

Bi-Directional Amplifier – Cellular Model Number RPT-SBAAA12000



Frequency Tolerance Test for ADC Inc. Bi-Directional Amplifier – Cellular Model Number RPT-SBAAA12000

EUT is specified for indoor use only with temperature range of -5° to +45° C, and was tested with its range.



4.0 TEST RESULTS

4.1.1 22.913 Effective radiated power limits

Test Summary:

- The requirements are: MET NOT MET
- Minimum margin of compliance is 37.02 dB at 882.5 MHz (EVDO)

Test Location:

^D ETL (Oakdale, MN)

ADC facility (Shakopee, MN)

Test Distance:

- [□] 3 Meters
- ^D 10 Meters

Conducted measurement

Test Equipment (ADC):

Equipment	Manufacturer	Model	ADC Serial Number	Calibration Due.
Attenuator	Aeroflex	49-30-33	N/A	CNR
Spectrum Analyzer	HP	8563E	MC27690	11-22-07
Power Meter	HP	EPM-441A	MC27670	9-20-07
Signal Generator	Agilent	E4437B	83781	6-13-08

Equipment with a Calibration Not Required (CNR) listing is verified and compensated for with NIST traceable calibrated equipment.

Test Limit:

500 Watts or 57 dBm Limit

Test Data:

See page 40

Test Engineer: Mark F. Miska **Date:** 31 July, 2007

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4.1.2 22.355 Frequency tolerance

Test Summary:

- The requirements are: **MET D** NOT MET
- The fundamental emission stays within the authorized frequency block.
- Frequency measured over a temperature range of -5 to 45° C and an input voltage range of 100 to 240 VAC.

Test Location:

^D ETL (Oakdale, MN)

ADC facility (Shakopee, MN)

Test Equipment (ADC):

Equipment	Manufacturer	Model	ADC Serial Number	Calibration Due.
Multimeter	Fluke	87	MC19056	8-20-08
Frequency Counter	HP	5347A	MC27548	8-18-07
Variable Auto Transformer	Staco	1520CT	MC44655	CNR
Signal Generator	Agilent	E4437B	83781	6-13-08

Equipment with a Calibration Not Required (CNR) listing is verified and compensated for with NIST traceable calibrated equipment.

Test Limit:

TABLE C-1.—FREQUENCY TOLERANCE FOR TRANSMITTERS IN THE PUBLIC MOBILE SERVICES

Frequency range (MHz)	Base, fixed (ppm)	Mobile ≤3 watts (ppm)	Mobile <=3 watts (ppm)
25 to 50	20.0	20.0	50.0
50 to 450	5.0	5.0	50.0
450 to 512	2.5	5.0	5.0
821 to 896	1.5	2.5	2.5
928 to 929	5.0	n/a	n/a
929 to 960	1.5	n/a	n/a
2110 to 2220	10.0	n/a	n/a

Test Data:

See page 80

Test Engineer: Mark F. Miska **Date:** 31 July, 2007

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4.1.3 22.917 Emission limitations cellular

Test Summary:

- The requirements are: **MET D** NOT MET
- Out of band emissions were less than -13 dBm.
- Outside the emission bandwidth of the carrier, all emissions are attenuated at least 26 dB below the transmitter power.

Test Location:

^D ETL (Oakdale, MN)

ADC facility (Shakopee, MN)

Test Equipment (ADC):

<u> </u>	/•			
Equipment	Manufacturer	Model	ADC Serial Number	Calibration Due.
Spectrum Analyzer	HP	8563E	MC27690	11-22-07
Power Meter	HP	EPM-441A	MC27670	9-20-07
Multimeter	Fluke	87	MC19056	8-20-08
Frequency Counter	HP	5347A	MC27548	8-18-07
Temperature Chamber	Ecosphere		MC21679	1-11-08
Variable Auto	Staco	1520CT	MC44655	CNR
Transformer				
Signal Generator	Agilent	E4437B	83781	6-13-08
Signal Generator	Agilent	E4436B	1283112C	4-4-08
Power Supply	Xantrex	HPD 60-5	MC27764	6-25-08

Power SupplyXantrexHPD 60-5MC277646-25-08Equipment with a Calibration Not Required (CNR) listing is verified and compensated for with NIST traceable calibrated
equipment.

Test Equipment (Intertek):

Equipment	Manufacturer	Model	Serial No.	Cal. Due.
Spectrum Analyzer	Rohde & Schwarz	FSP 40	100024	07/08
Spectrum Analyzer	Rohde & Schwarz	ESCI	100358	04/08
Instrument Control	TILE!	Ver. 3.4 K.15	N/A	N/A
Cable	Schaffner-Chase	Bicono-Log	2630	08/07
Antenna	EMCO	Horn 3115	9507-4513	01/08
Antenna	EMCO	Horn 3115	6579	03/08
Pre-Amp	MITEQ	AMF-5D	1122951	04/08
Pre-Amp	MITEQ	AMF-6F	1222383	09/07

Test Limit:

Out of band emissions: Attenuated below the transmitting power (P) by a factor of at least $43 + 10\log(P) dB$, or -13 dBm.

Outside of the carrier emissions bandwidth: 26 dB below the transmitter power

Test Data:

<u>Conducted Emissions</u>, pages 15 – 39 <u>Intermodulation Test</u>, pages 41 – 71 <u>Occupied Bandwidth</u>, pages 72 – 79 Radiated Emissions, pages 81 – 96 (<u>Appendix B</u>) **Test Engineer:** Mark F. Miska **Date:** 31 July, 2007 **Date:** 31 July, 2007 **Date:** 31 July, 2007

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APPENDIX A

Test Data

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Test Engineer: Mark F. Miska Date: 31 July, 2007

Conducted Emission Limits Test for ADC Inc. Bi-Directional Amplifier – Cellular Model Number RPT-SBAAA12000

Back

The out of band emissions were measured directly from the EUT antenna output with a spectrum analyzer from 30 MHz to the 10th harmonic of the highest carrier frequency. Test signals used are FM, TDMA, GSM, EDGE, CDMA, EVDO, and W-CDMA. The different signals were input one at a time to the EUT. In all cases, the out of band emissions were less than -13 dBm from the equation

(19dBm - [43 + 10log(0.08W)])

Band edge compliance is also demonstrated using a FM, TDMA, GSM, EDGE, CDMA, EVDO, and W-CDMA signal at the upper and lower limits of the band.

Industry practice has generally set the input signal power level. Test signal used was \approx -47 dBm input to EUT. Industry practice has generally set the output signal power level.

EUT: Range: 100 - 240 VAC Tested @: 120 VAC Tested @: 0.8 A

Application details for 2.1033(c)(10), and 2.1033(c)(13):

The input to the unit has a digital attenuation chip (ALC) to provide protection from overdrive

The circuit detects the power level of the final stage amplifier and compares with the pre-set value.

If the detected value is bigger than the pre-set, ALC will increase the attenuation until the detect value is on level with pre-set value. If the detected value is smaller than the pre-set, ALC will decrease the attenuation until the detect value is on level with pre-set value. With above mentioned functions, the ALC circuit maintains the output power level at +13dBm (pre-set value). Single channel operation, or multi-channel operation will not exceed nominal gain of the system.

The frequency stability is derived from two 13MHz TCVCXOs (RTVS-104), separate for the Forward and Reverse paths. These each feed two PLLs for the IF down conversion.

The spurious limitation uses ALC to help suppress in-band spurious by preventing final stage amplifier overdrive, while the duplex filter suppresses out-of-band spurious. Internal to the electronics, the use of SAW filters provides for higher Q roll-off at band edges.

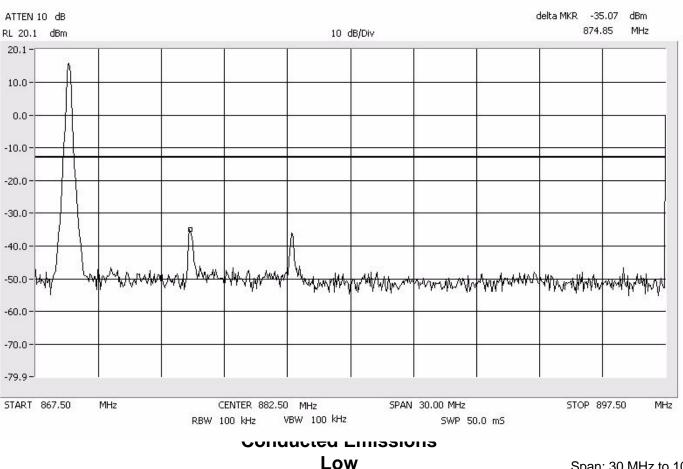
This equipment does not modulate the RF, so there is no modulation limiter. This equipment does not change the modulation of the RF or the occupied bandwidth of any channel. It transports the signal, as is, over an optical link. The RF input is not changed in the RF output.

This is a constant gain device, so the setup controls the output. There is an overdrive and overpower limit control that prevents excess power.

Results: Pass (See plots)

Conducted Emissions Low Cellular 800 MHz

Center: 882.5 MHz Span: 30 MHz RBW/VBW: 100 kHz



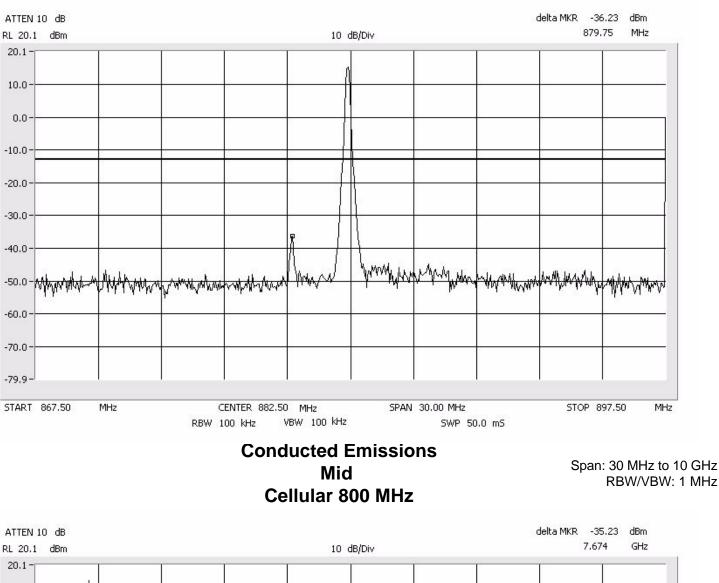
Cellular 800 MHz

Span: 30 MHz to 10 GHz RBW/VBW: 1 MHz

ATTEN 10 dB		delta MKR	-35.23 dBm
RL 20.1 dBm	10 dB/Div	7	7.690 GHz
20.1 -			
10.0-			
0.0-			
-10.0-			
-20.0 -			
-30.0		-	
-40.0	all from many many many and the second of th	www.www.ww	manymou
-50.0 -			
-60.0 -			<u> </u>
-70.0-			
-79.9 -			16 of 98
START 30	MHz CENTER 5.015 GHz SPAN 9.970 GHz RBW 1.0 MHz VBW 1.0 MHz SWP 200 mS	STOP	MN070817 9 10.000 GHz

Conducted Emissions Mid Cellular 800 MHz

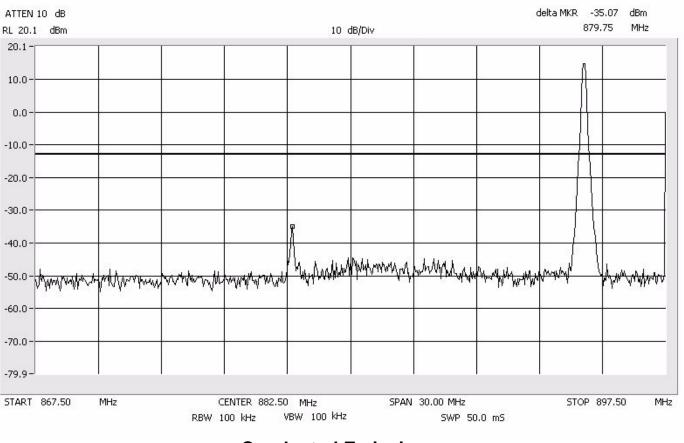
Center: 882.5 MHz Span: 30 MHz RBW/VBW: 100 kHz



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20.1 dBm	10 dB/D	θiγ	7.674 GHz
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Conducted Emissions High Cellular 800 MHz

Center: 882.5 MHz Span: 30 MHz RBW/VBW: 100 kHz



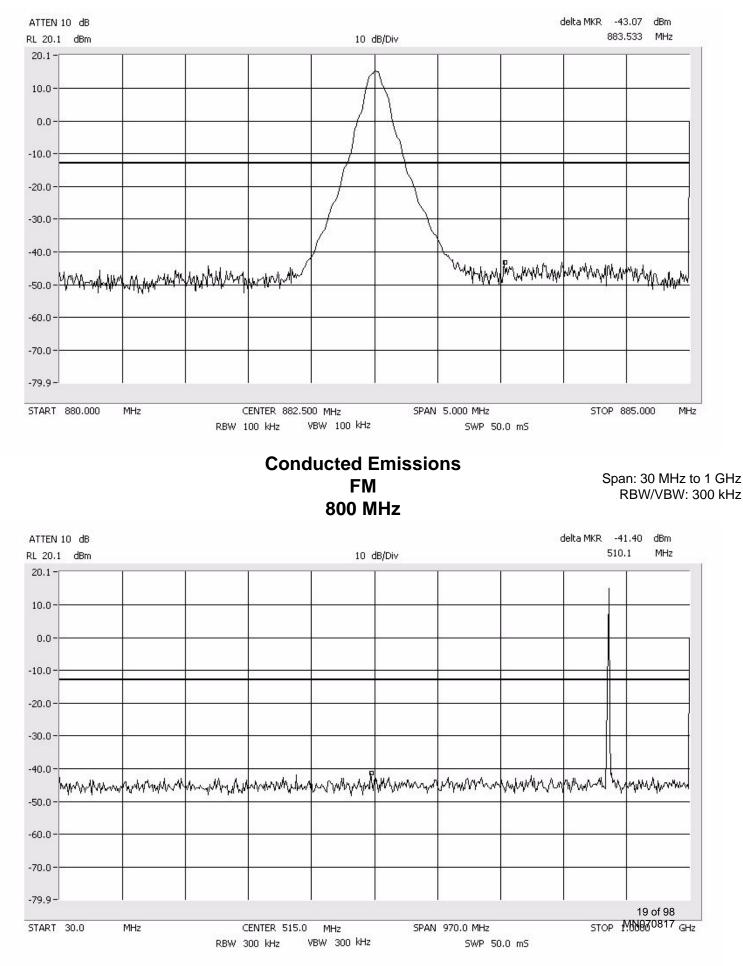
Conducted Emissions High Cellular 800 MHz

Span: 30 MHz to 10 GHz RBW/VBW: 1 MHz

delta MKR -34.73 dBm ATTEN 10 dB 7.225 GHz RL 20.1 dBm 10 dB/Div 20.1 10.0 0.0 -10.0 -20.0 -30.0 Anna under an and the second and the second secon -40.0 -50.0 -60.0 -70.0 -79.9-18 of 98 MN070817 START 30 MHz CENTER 5.015 SPAN 9.970 GHz STOP 10.000 GHz GHz VBW 1.0 MHz RBW 1.0 MHz SWP 200 mS

Conducted Emissions FM 800 MHz

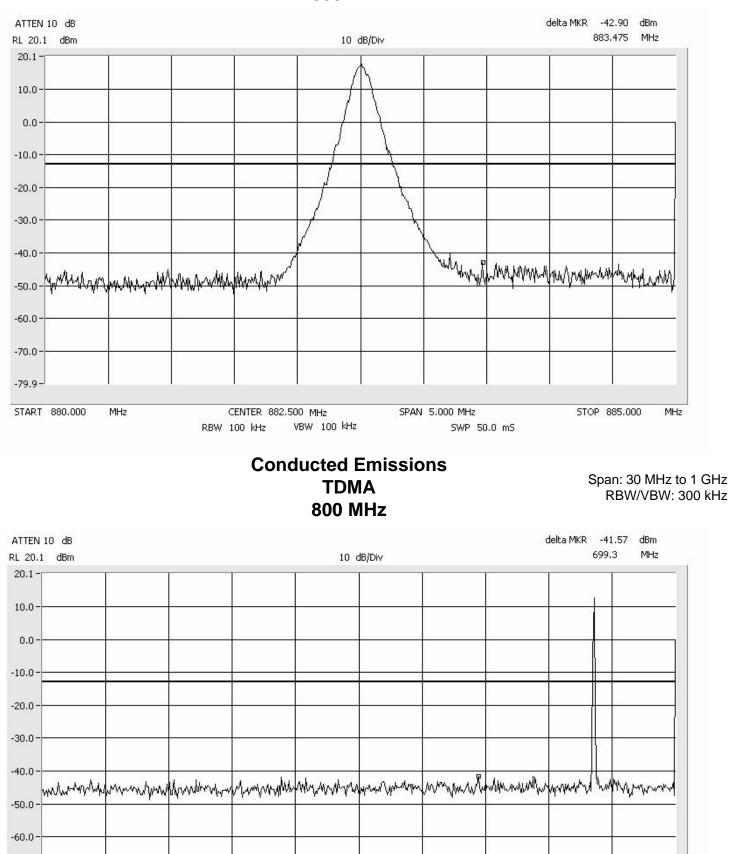
Mid Band Span: 5 MHz RBW/VBW: 100 kHz



Conducted Emissions FM 800 MHz

20.1	dBm				10	dB/Div			1.	105 GHz
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.0					5.5 5.5					
.0	5			n		g	;;			
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.0	ś		-		-					
.0	5									
.9-										
79.9-	1.000	GHz	 	ENTER 5.500	GHz	SPAN	9.000 GHz		STOR	10.000

Conducted Emissions TDMA 800 MHz



-70.0

-79.9-

START 30.0

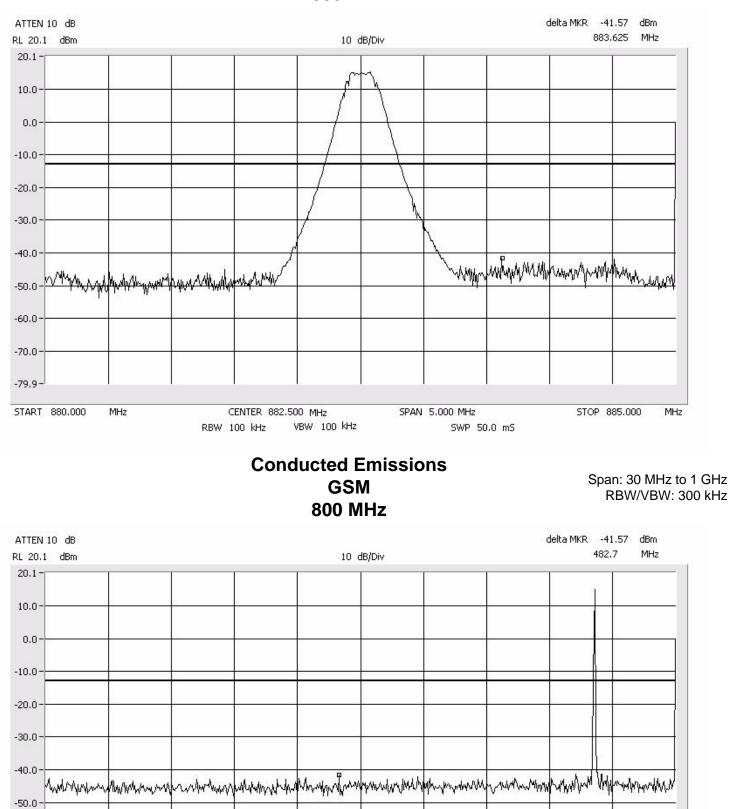
MHz

Conducted Emissions TDMA 800 MHz

ATTEN	10 dB							្រ	delta MKR - 3	35.23 dBm
RL 20.3	1 dBm				10 0	B/Div			7.7	20 GHz
20.1-										
10.0-	<u></u>	p.	2	2						<u> </u>
0.0-										
-10.0-										
-20.0-							:			
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-50.0-			-					-		
-60.0-										+
-70.0-			с.							
-79.9-										
START	1.000	GHz		ENTER 5.500 .0 MHz V	GHz /BW 1.0 MHz		9.000 GHz SWP 18	0 mS	STOP	10.000 GHz

Conducted Emissions GSM 800 MHz

Mid Band Span: 5 MHz RBW/VBW: 100 kHz



-60.0

-70.0-

-79.9-

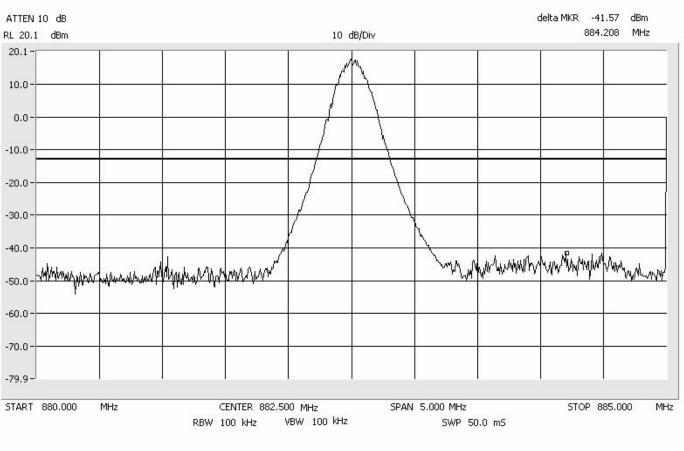
START 30.0

MHz

Conducted Emissions GSM 800 MHz

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Conducted Emissions EDGE 800 MHz



Conducted Emissions EDGE 800 MHz

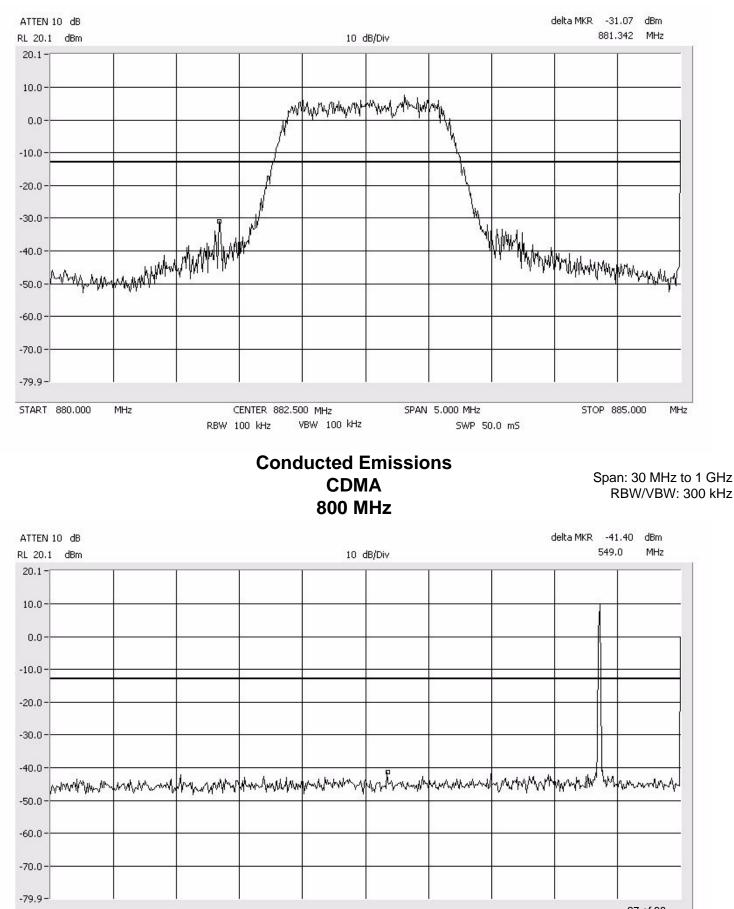
Span: 30 MHz to 1 GHz RBW/VBW: 300 kHz

TTEN 10 dB		i te te ch	delta MKR -41.57 277.4	7 dBm MHz
20.1 dBm	10	dB/Div	2///1	1911/2
0.1-				
0.0-				
0.0 -				
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Conducted Emissions EDGE 800 MHz

ATTEN	10 dB							c	lelta MKR -3	5.07 dBm
RL 20.3	1 dBm				10 0	B/Div			2.8	75 GHz
20.1-										
10.0-	<u></u>			2						<u></u>
0.0-										
-10.0-	2									
-20.0-									2	
-30.0-			-							
-40.0-	WARM	handhaman	M. Marian	hypertype	phanesta and the second second second	and the second and	Munnin	phank Manua	Whenhall	mond
-50.0-	0	2			2				-	
-60.0-										<u> </u>
-70.0-			1	5. F					~	<u> </u>
-79.9-										
START	1.000	GHz		ENTER 5.500 .0 MHz \	GHz /BW 1.0 MHz		9.000 GHz SWP 18	:0 m5	STOP	10.000 GHz

Conducted Emissions CDMA 800 MHz



START 30.0

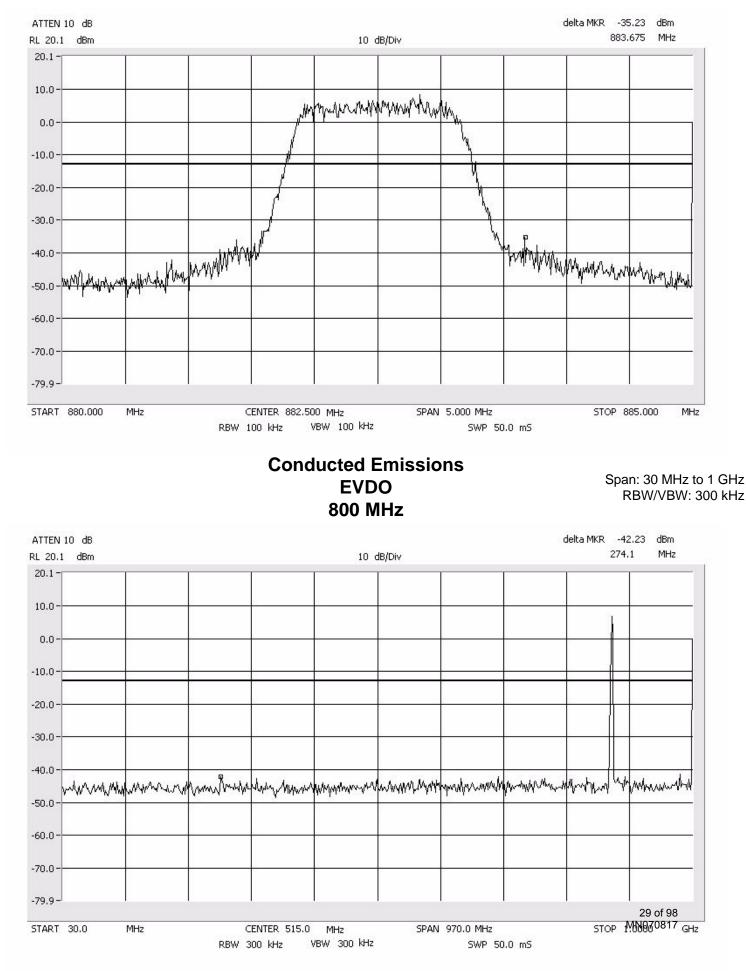
MHz

Conducted Emissions CDMA 800 MHz

ATTEN	10 dB							្រ	delta MKR -34	4.73 dBm
RL 20.3	1 dBm				10	dB/Div			2.69	95 GHz
20.1-										
10.0-	<u></u>	2	2	20	20					<u></u>
0.0-	<u></u>	<i>.</i>	2)	<i>.</i>	<u>.</u>			<u></u>		
-10.0-			01					-		
-20.0-										
-30.0-	-			v	r.					
-40.0-	- Human -	Low Marth	Markonigher	a prographic prographic	Landinghana	har and the second	manne	Marmun	Harring w	montan
-50.0-										
-60.0-					-					
-70.0-				ę	ę.		· · · · · ·	N		
-79.9-				8	8					
START	1.000	GHz		ENTER 5.500 .0 MHz \	GHz /BW 1.0 MHz		9.000 GHz SWP 18	:0 mS	STOP 1	0.000 GHz

Conducted Emissions EVDO 800 MHz

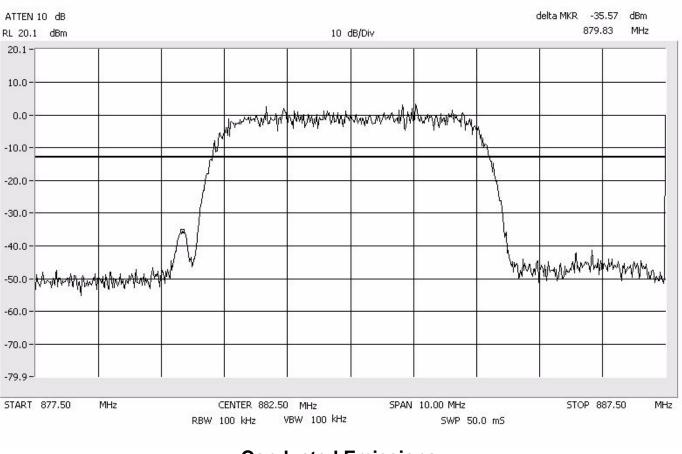
Mid Band Span: 5 MHz RBW/VBW: 100 kHz



Conducted Emissions EVDO 800 MHz

20.1 dBm		10	dB/Div		2.125 GHz
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9-					

Conducted Emissions W-CDMA 800 MHz



Conducted Emissions W-CDMA 800 MHz

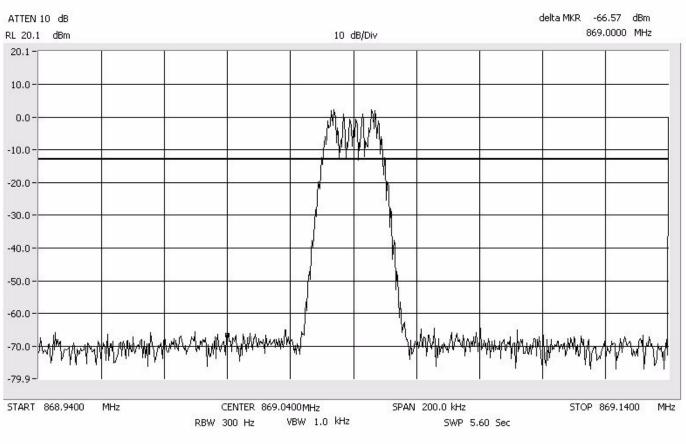
Span: 30 MHz to 1 GHz RBW/VBW: 300 kHz

:0.1 dBm	10	dB/Div		720.3 MHz
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]				
,				31 of 98
				STOP MN970817

Conducted Emissions W-CDMA 800 MHz

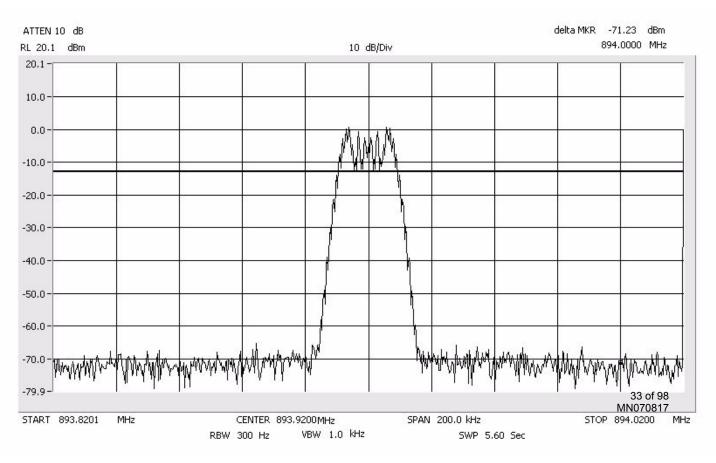
ATTEN	10 dB							្ត	delta MKR - 3	4.90 dBm
RL 20.	1 dBm				10	dB/Div			2.42	25 GHz
20.1-										
10.0-		(5)	9	0	5) 					<u></u>
0.0-					e					
-10.0-								-		
-20.0-							e :			
-30.0-	~			2	2.					
-40.0-	drawn weder	www.white	1 miles sugar	, markey an a been	han the state of t	mar frank	mannama	Manananana	munyan	mond
-50.0-		-								
-60.0-			-	7						
-70.0-			9.3	9.3	19.3			R. S.	·	
-79.9-										
START	1.000	GHz		ENTER 5.500 .0 MHz \	GHz /BW 1.0 MHz		9.000 GHz SWP 18	:0 m5	STOP 1	10.000 GHz

Band Edge FM

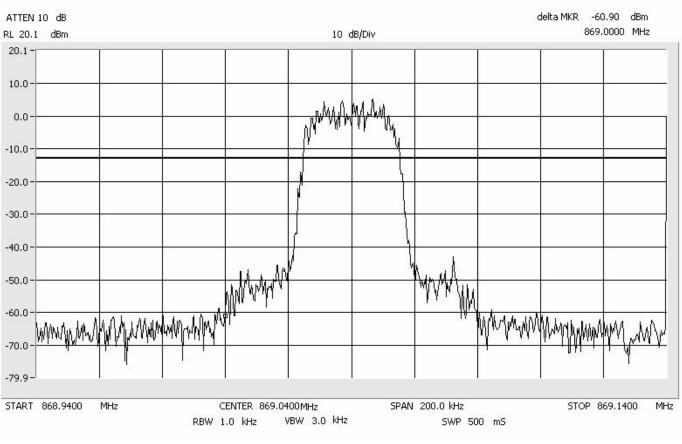


Band Edge FM

Center: 893.92 MHz Span: 200 kHz RBW: 300 Hz VBW: 1 kHz

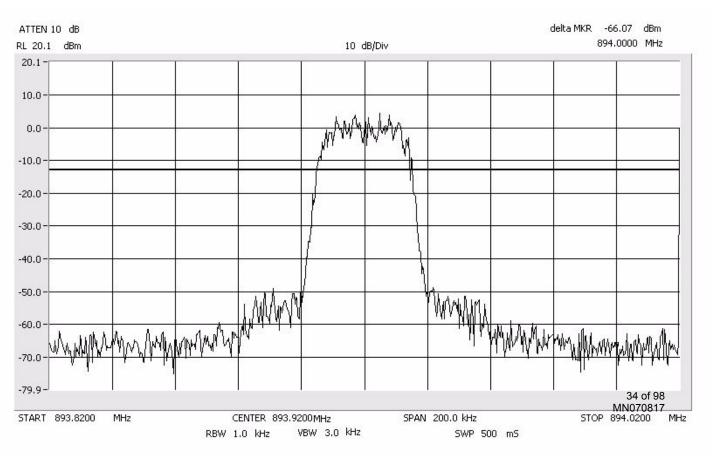


Band Edge TDMA

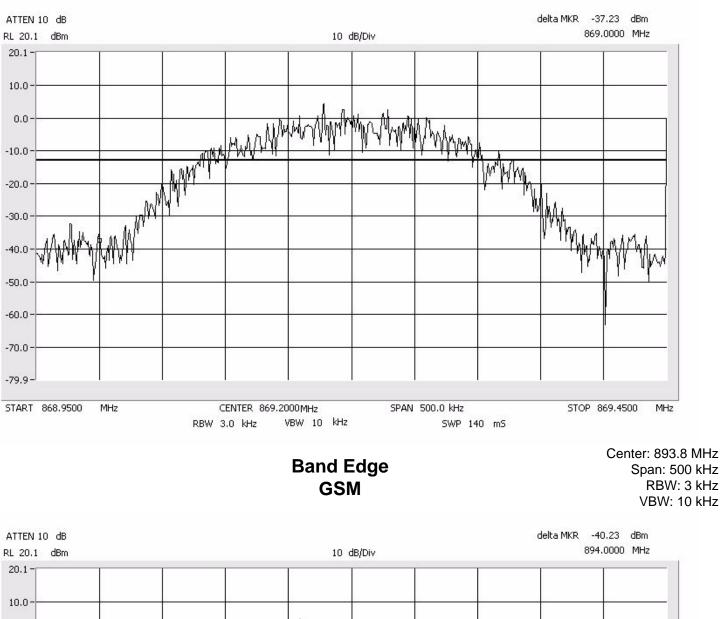


Band Edge TDMA

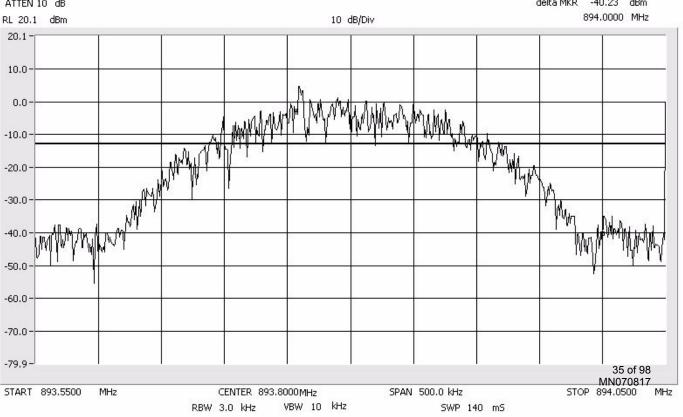
Center: 893.92 MHz Span: 200 kHz RBW: 1 kHz VBW: 3 kHz



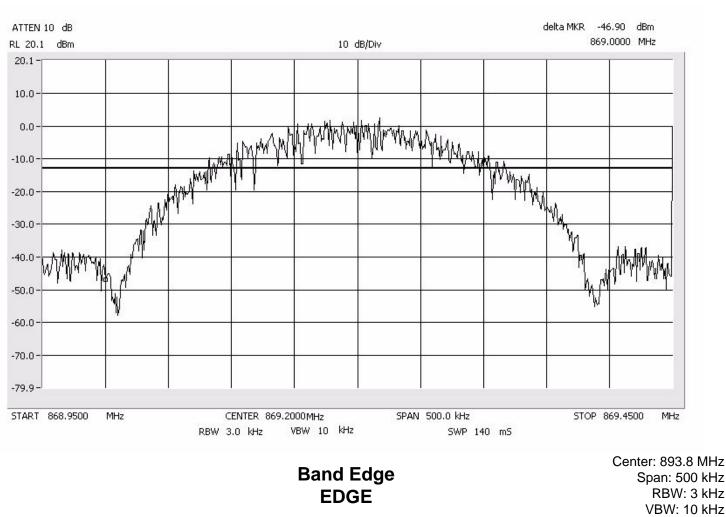
Band Edge GSM

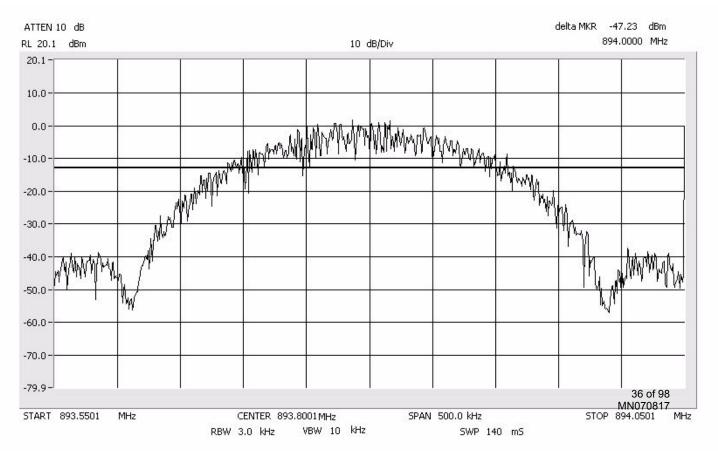


Span: 500 kHz RBW: 3 kHz VBW: 10 kHz

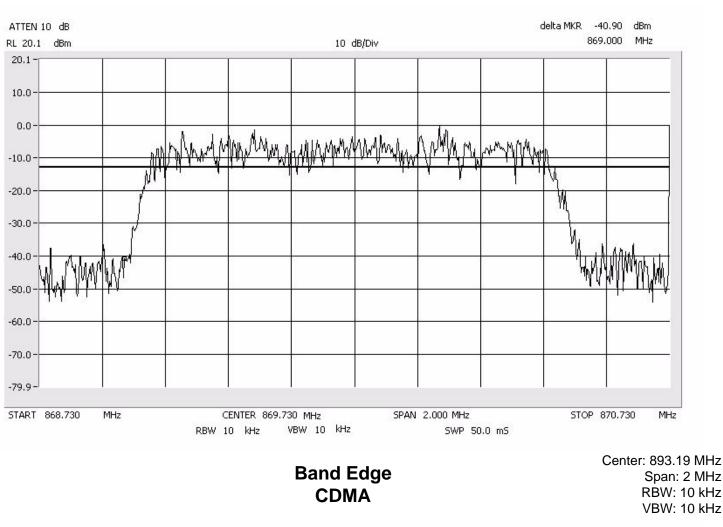


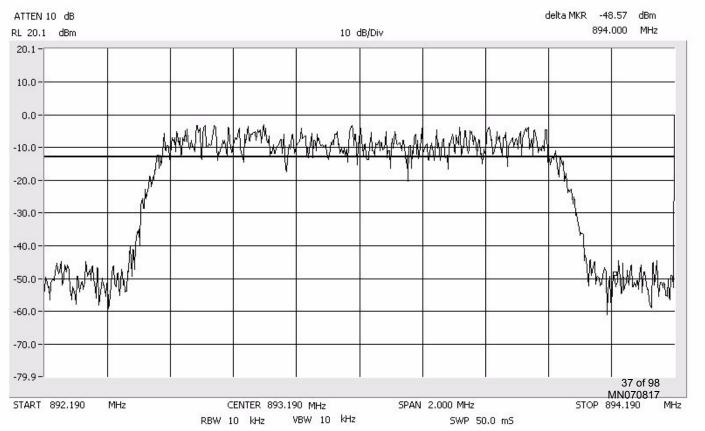
Band Edge EDGE





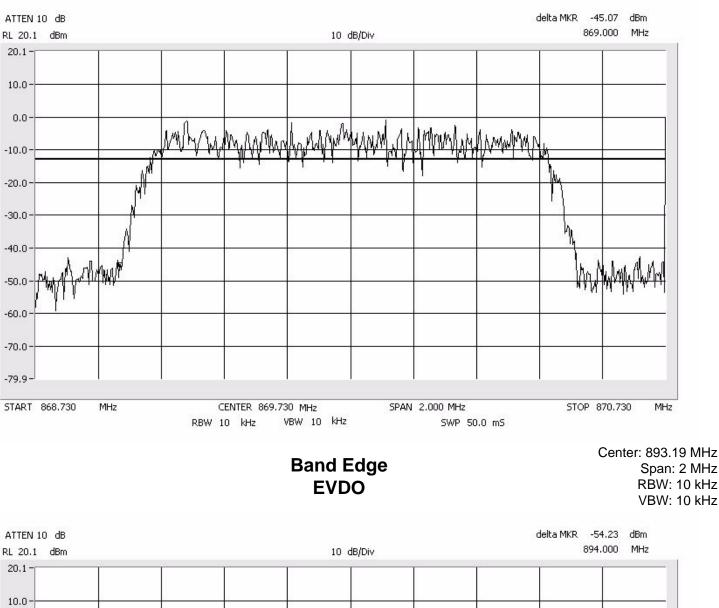
Band Edge CDMA

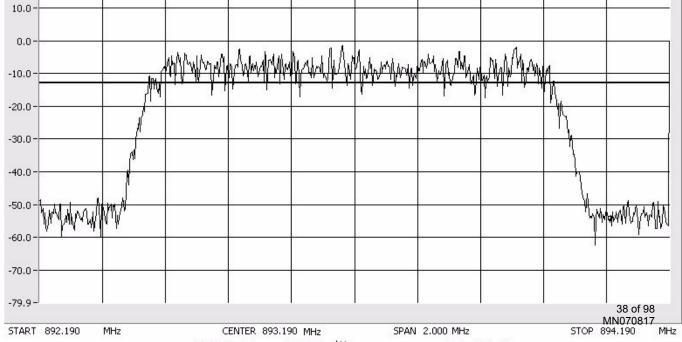




Band Edge EVDO

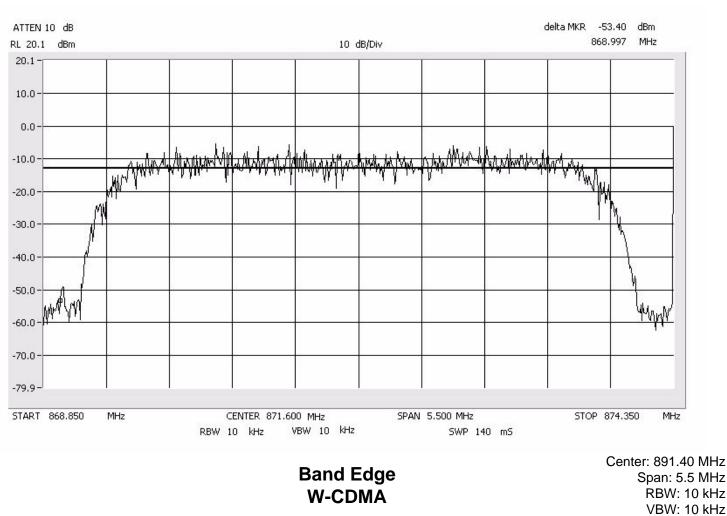
Center: 869.73 Span: 2 MHz RBW: 10 kHz VBW: 10 kHz

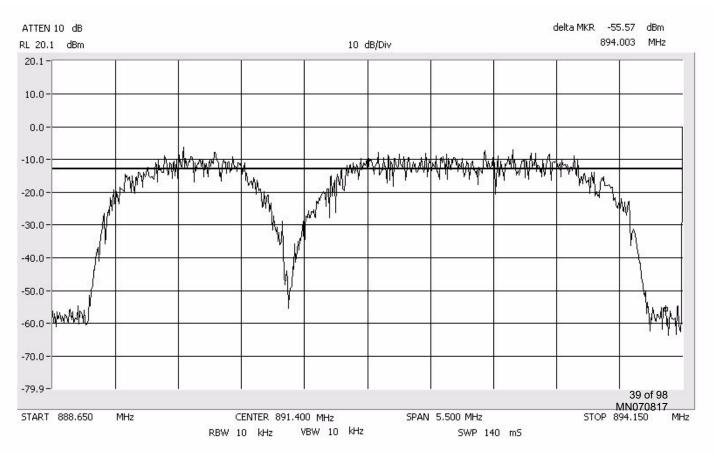




VBW 10 kHz RBW 10 kHz

Band Edge W-CDMA





Conducted Output Power Test for ADC Inc. Bi-Directional Amplifier – Cellular Model Number RPT-SBAAA12000

Back

891.4 MHz

*Note: The EUT is a fixed repeater and not a base station.

This measurement was made as a direct conducted emission measurement. The output from the EUT antenna connector was connected to the power meter. The carrier output, below, was conducted using a single FM, TDMA, GSM, EDGE, CDMA, EVDO, and W-CDMA signal generator. The power meter level was offset to compensate for attenuators and cable loss between the EUT and the power meter.

A signal was used at the low, mid and high parts of the selected band. The power meter level was offset by 33.44 dB to compensate for attenuators and cable loss between the EUT and the power meter.

FM	98.40 mWatts	GSM	94.84 mWatts
Carrier Frequency	Carrier Output	Carrier Frequency	Carrier Output
869.2 MHz	<u>19.92</u> dBm	869.5 MHz	<u>19.27</u> dBm
882.5 MHz	<u>19.93</u> dBm	882.5 MHz	<u>19.77</u> dBm
893.8 MHz	<u>19.10</u> dBm	893.5 MHz	<u>19.43</u> dBm
TDMA	93.54 mWatts	EDGE	97.49 mWatts
Carrier Frequency	Carrier Output	Carrier Frequency	Carrier Output
869.2 MHz	<u>19.25</u> dBm	869.5 MHz	<u>19.47</u> dBm
882.5 MHz	<u>19.71</u> dBm	882.5 MHz	<u>19.57</u> dBm
893.8 MHz	<u>19.61</u> dBm	893.5 MHz	<u>19.89</u> dBm
CDMA	97.49 mWatts	EVDO	99.54 mWatts
Carrier Frequency	Carrier Output	Carrier Frequency	Carrier Output
869.8 MHz	<u>19.89</u> dBm	869.8 MHz	<u>19.89</u> dBm
882.5 MHz	<u>19.06</u> dBm	882.5 MHz	<u>19.98</u> dBm
893.2 MHz	<u>19.58</u> dBm	893.2 MHz	<u>19.57</u> dBm
W-CDMA	98.62 mWatts		
Carrier Frequency	Carrier Output		
871.6 MHz	<u>19.94</u> dBm		
882.5 MHz	<u>19.75</u> dBm		

19.39 dBm