



Test Report Summary

FCC CFR 47, Part 22

Subpart H Cellular Radiotelephone Service

Manufacturer: ADC Telecommunications

Name of Equipment: Digivance® Indoor Coverage Solution

Model Number(s): DGVIR1300000000000

Manufacturer's Address: P.O. Box 1101
Minneapolis, MN 55440-1101

Test Report Number: MN061207

Test Date(s): 01 December, 2006 (ETL)
28 November, 2006 (ADC)

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: 07 December, 2006

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

ADC Telecommunications
5341 12th Ave E
Shakopee, MN 55379
Phone: (952) 403-8340
Fax: (952) 403-8858

Testing Conducted by (ADC):
And Report Written by:


Mark F. Miska
Compliance Engineer



EMC Emission – T E S T R E P O R T

Test Report File Number: MN061207 **Date of Issue:** 07 December, 2006

Model Number(s): DGVIR1300000000000

Product Name: Digivance® Indoor Coverage Solution

Product Type: Digital Remote Unit - DRU

Applicant: ADC Telecommunications

Manufacturer: ADC Telecommunications

License Holder: ADC Telecommunications

Address: P.O. Box 1101
Minneapolis, MN 55440-1101

Test Result: ☒ **Positive** ☐ Negative

Test Project Number: 3110938
Reference(s)

Total pages including Appendices: 103



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1.0 REVISION DESCRIPTION

Rev	Total Pages	Date	Description
A	103	December 07, 2006	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
- ☐ FCC Part 90
- ☐ IC RSS-131 Issue 2

Environmental Conditions in the lab:

ADC

Temperature: 24° C
Relative Humidity: 13%
Atmospheric Pressure: 105.0 kPa

ETL

23° C
17%
99.1 kPa

Power Supply Utilized:

Power Supply System (Host) : 1 phase, 60 Hz, 120 VAC
Power Supply System (Remote) : 48 VDC

2.2 Test Operation Mode

- ▣ Standby
- ▣ Test Program
- ▣ 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: 7.5"

Width: 7.0"

Height: 2.25"

Weight: 2.0 pounds

2.6 Cables:

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

2.7 Power Requirements:

Voltage: 120 VAC

Amps: 1.2 A

2.8 Typical Installation and/or Operating Environment:

Host and Remote Unit are indoor only.

2.9 Other Special Requirements:

None

2.10 EUT Software:

None

2.11 EUT System Components

Description	Model #	Serial #	FCC ID #
Digital Host Unit	DGVIH1110000000000	None	
Digital Remote Unit	DGVIR1300000000000	None	

Note: Digivance® ICS System consists of the DHU and DRU.

2.12 Support Equipment

Description	Manufacturer	Model #	FCC ID #
Power Meter	HP	EPM-441A	
Signal Generator	Agilent	E4437B	
Attenuator	Huber Suhner	6810.17.A	

2.13 Deviations from standard:

Modifications required to pass:

☐ As indicated on the data sheet(s)

■ **None**

2.14 Test Specification Deviations; Additions to or Exclusions from:

☐ 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

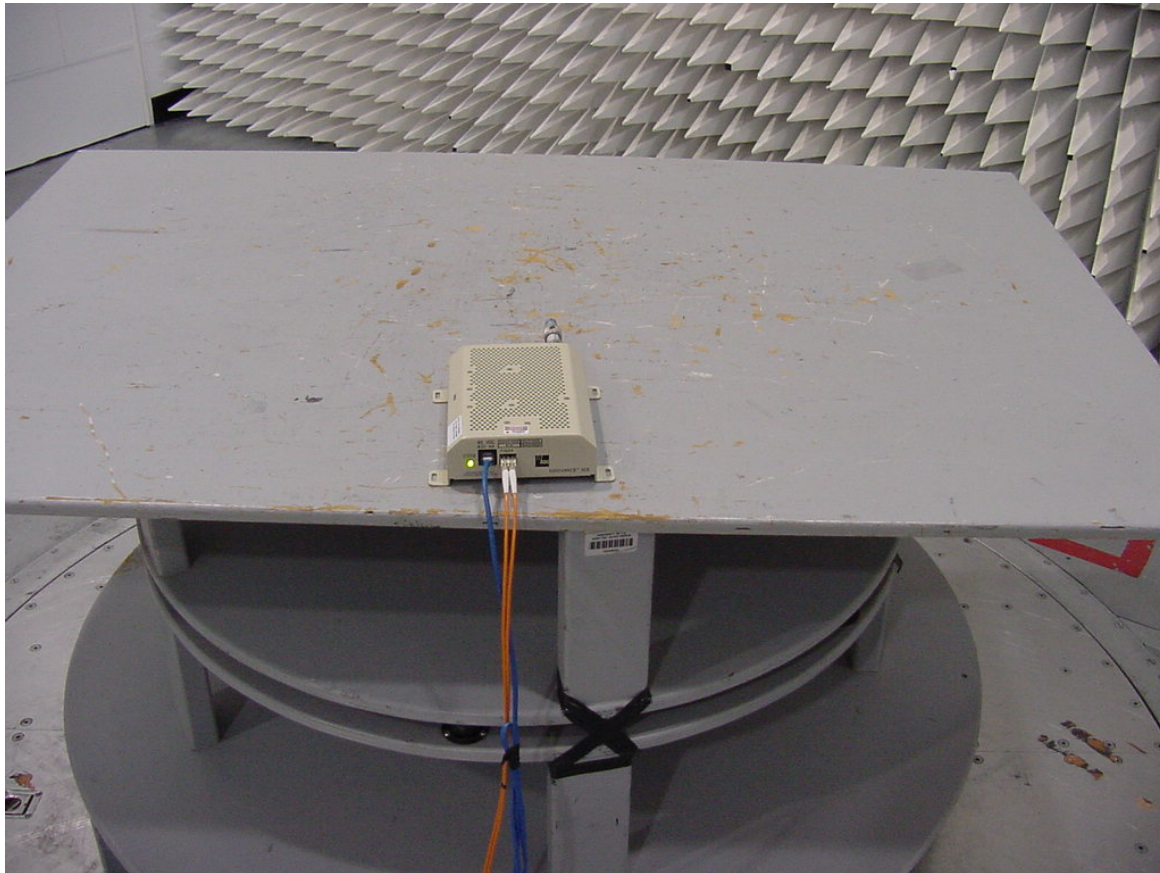
■ **fulfill the general approval requirements mentioned on page 4.**

☐ 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

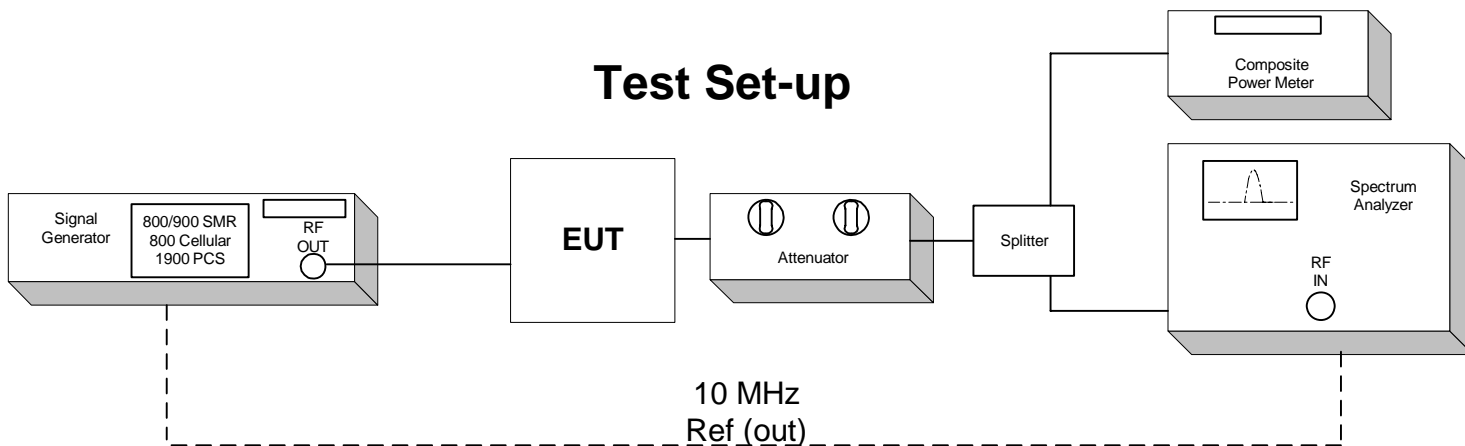


3.2 Test set-up photo, radiated emissions

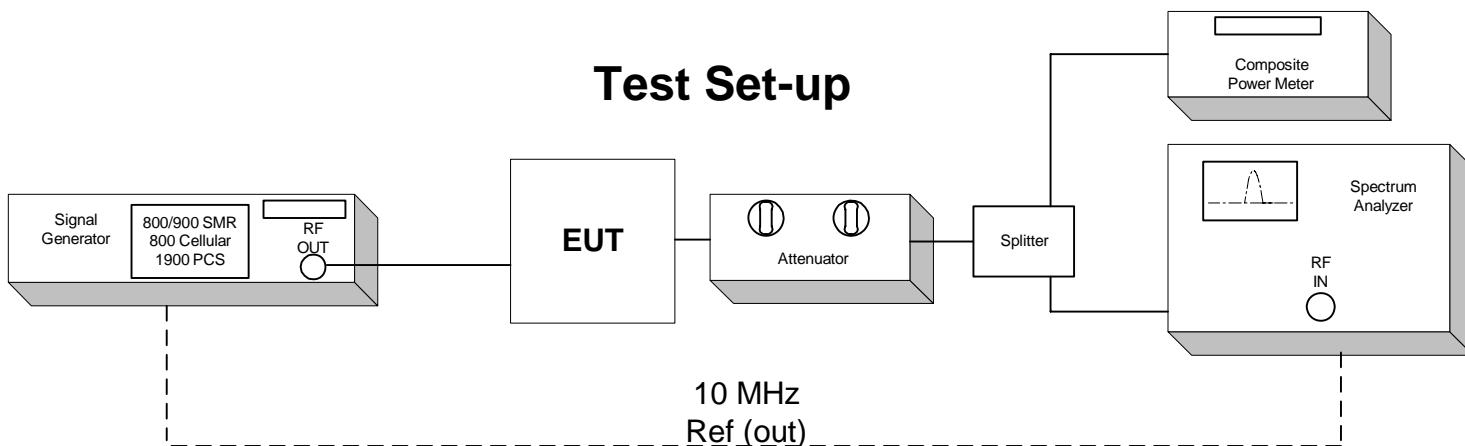


3.3 Test Set-up Drawings

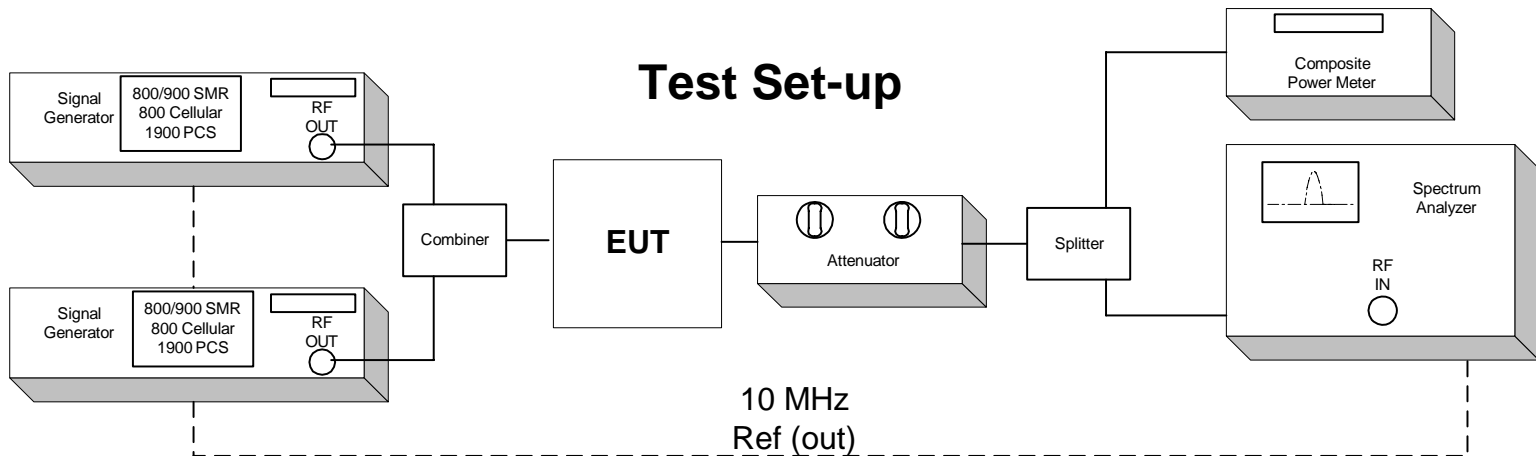
Conducted and Radiated Emission Limits Test for ADC Inc. Digivance® Indoor Coverage Solution Model Numbers DGVIH1110000000000 and DGVIR1300000000000



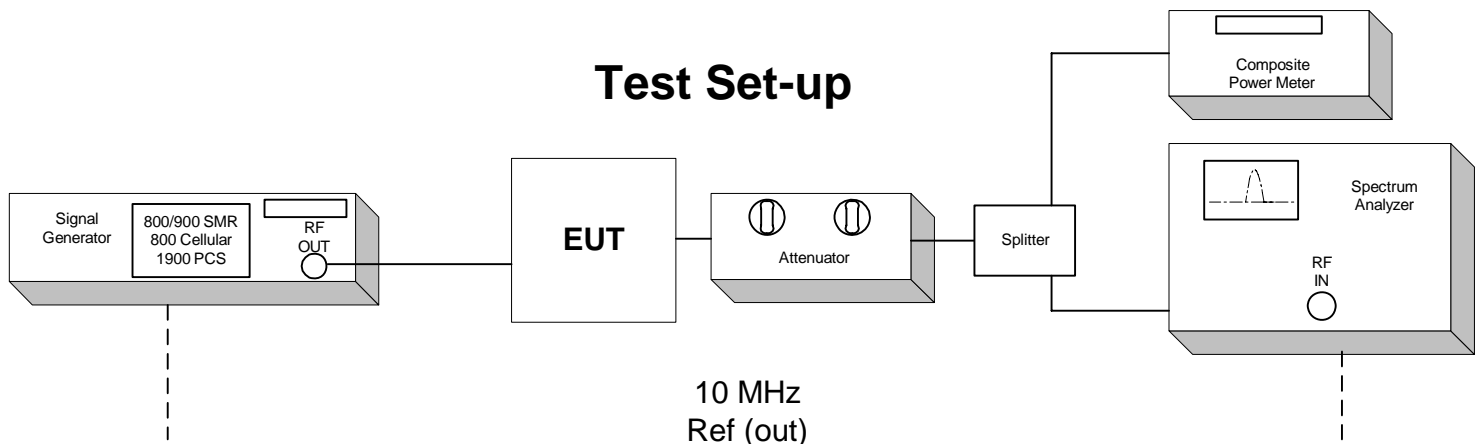
Conducted Output Power Test for ADC Inc. Digivance® Indoor Coverage Solution Model Numbers DGVIH1110000000000 and DGVIR1300000000000



**Inter-Modulation Test for ADC Inc.
Digivance® Indoor Coverage Solution
Model Numbers DGVIH1110000000000 and
DG VIR1300000000000**

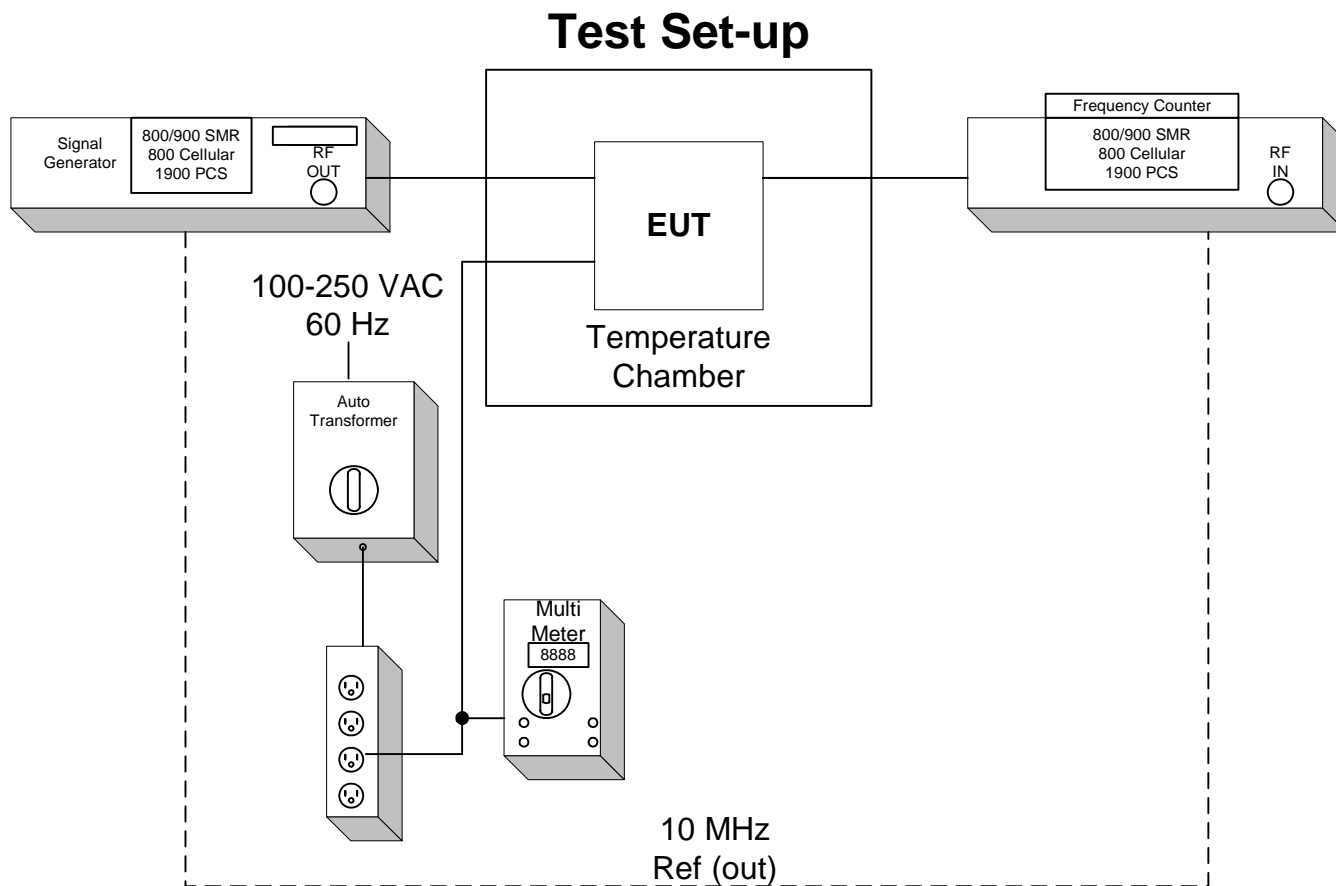


**Occupied Bandwidth Modulation Test for ADC Inc.
Digivance® Indoor Coverage Solution
Model Numbers DGVIH1110000000000 and
DG VIR1300000000000**



**Frequency Tolerance Test for ADC Inc.
Digivance® Indoor Coverage Solution
Model Numbers DGVIH1110000000000 and
DGVIR1300000000000**

EUT Host and Remote are specified for indoor use only with temperature range of 0° to +50° C, and were tested with their 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 29.99 dB at 881.5 MHz (FM)

Test Location:

☐ ETL (Oakdale, MN)

☒ **ADC facility (Shakopee, MN)**

Test Distance:

☐ 3 Meters

☐ 10 Meters

☒ **Conducted measurement**

Test Equipment (ADC):

Equipment	Manufacturer	Model	ADC Serial Number	Calibration Due.
Attenuator	Huber Suhner	6810.17.A	N/A	CNR
Spectrum Analyzer	HP	8563E	MC27690	12-22-06
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 41](#)

Test Engineer: Mark F. Miska

Date: 28 November, 2006

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4.1.2 22.355 Frequency tolerance

Test Summary:

- The requirements are: **■ MET** **□ NOT MET**
- The carrier frequency of each channel is maintained within the tolerances given in Table C-1 of this section.
- Frequency measured over a temperature range of 0 to 50° C and an input voltage range of 100 to 250 VAC (Host) and 34 to 48 DC (Remote).

Test Location:

□ ETL (Oakdale, MN)

■ ADC facility (Shakopee, MN)

Test Equipment (ADC):

Equipment	Manufacturer	Model	ADC Serial Number	Calibration Due.
Multimeter	Fluke	87	MC20083	4-26-07
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 81](#)

Test Engineer: Mark F. Miska

Date: 28 November, 2006

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4.1.3 22.917 Emission limitations cellular

Test Summary:

- The requirements are: **■ MET** **□ 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:

□ ETL (Oakdale, MN)

■ ADC facility (Shakopee, MN)

Test Equipment (ADC):

Equipment	Manufacturer	Model	ADC Serial Number	Calibration Due.
Spectrum Analyzer	HP	8563E	MC27690	12-22-06
Power Meter	HP	EPM-441A	MC27670	9-20-07
Multimeter	Fluke	87	MC20083	4-26-07
Frequency Counter	HP	5347A	MC27548	8-18-07
Temperature Chamber	Ecosphere		MC21679	12-27-06
Variable Auto Transformer	Staco	1520CT	MC44655	CNR
Signal Generator	Agilent	E4437B	83781	6-13-08
Signal Generator	Agilent	E4436B	1283112C	4-4-08
Attenuator	Huber Suhner	6810.17.A	N/A	CNR

Equipment 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	07/07
Spectrum Analyzer	Rohde & Schwarz	ESCI	100358	04/07
Instrument Control	TILE!	Ver. 3.4 K.15	N/A	N/A
Antenna	Schaffner-Chase	Bicono-Log	2468	01/07
Antenna	EMCO	Horn 3115	9507-4513	01/07
Antenna	EMCO	Horn 3115	6579	02/07
Antenna	Roberts	4 400-1000MHz	00599	N/A
Pre-Amp	MITEQ	AMF-5D	1122951	02/07
Generator	Rohde & Schwarz	SMT 03	DE12157	02/07

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:

[Conducted Emissions](#), pages 16 – 40

[Intermodulation Test](#), pages 42 – 72

[Occupied Bandwidth](#), pages 73 – 80

Radiated Emissions, pages 83 – 101 ([Appendix B](#))

Test Engineer: Mark F. Miska

Date: 28 November, 2006

Date: 28 November, 2006

Date: 28 November, 2006

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Test Data

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Test Engineer: Mark F. Miska

Date: 28 November, 2006

Conducted Emission Limits Test for ADC Inc. Digivance® Indoor Coverage Solution Model Numbers DGVIH1110000000000 and DGVIR1300000000000

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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

$$(19\text{dBm} - [43 + 10\log(0.08W)])$$

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.

The Host unit connects directly to the BTS via coax. The Host unit does not connect to an antenna or amplifier, thus it is a Part 15 device and has been tested and is compliant as such. No FCC ID is necessary.

Industry practice has generally set the input signal power level. Test signal used was \approx -10 dBm input to DHU.
Industry practice has generally set the output signal power level.

Digital Host Unit (DHU):

Range: 100 - 250 VAC

Tested @: 120 VAC

Tested @: 1.2 A

Digital Remote Unit (DRU):

Range: 34-48 VDC

Tested @: 48 VDC

Tested @: 350 mA

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

The input to the host unit has a digital attenuation chip (ALC) to provide protection from overdrive with 5-10 millisecond attack time / 100 millisecond decay time and 31 dB of head room, such that single channel operation, or multi-channel operation will not exceed nominal gain of the system.

The frequency stability is derived by the BTS, base transceiver station. This product uses internal frequency stability to keep the signal inside our filter bandwidths. This means that the frequency can change, but the frequency that transmits is still at the original frequency. The remote system uses the data over the fiber optic path to phase/frequency lock to the host. The purpose is to frequency lock the up- and down-conversion local oscillators, and thereby eliminate any end-to-end frequency shift.

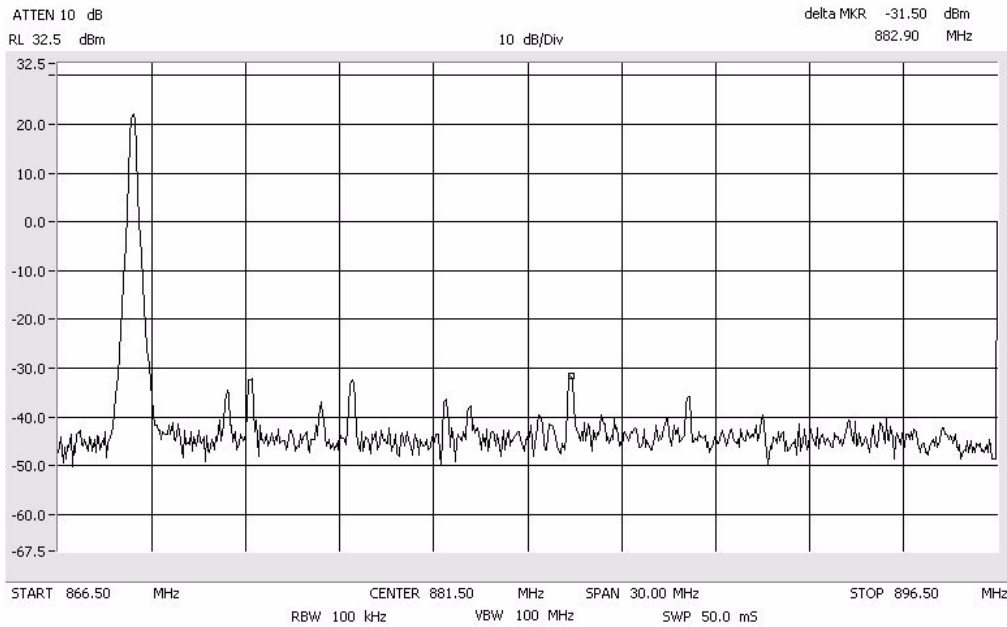
The spurious limitation is completed with the duplexer. The ALC also suppresses in-band spurious by preventing PA overdrive, while the duplexer suppresses out-of-band spurious. Internal to the electronics, the use of SAW filters provides for higher Q roll-off at band edges.

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.

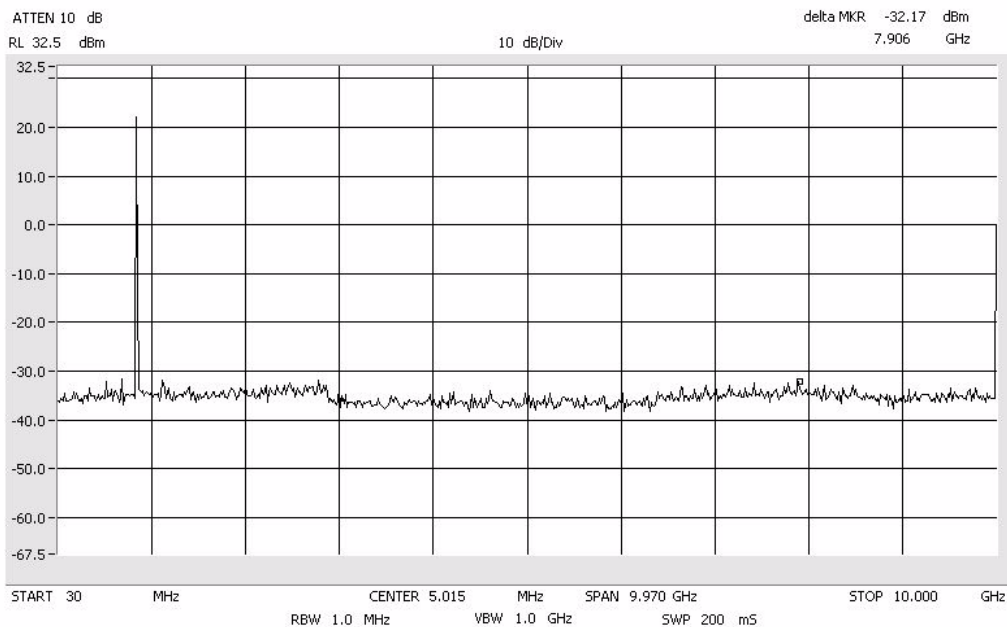
Results:

Pass (See plots)



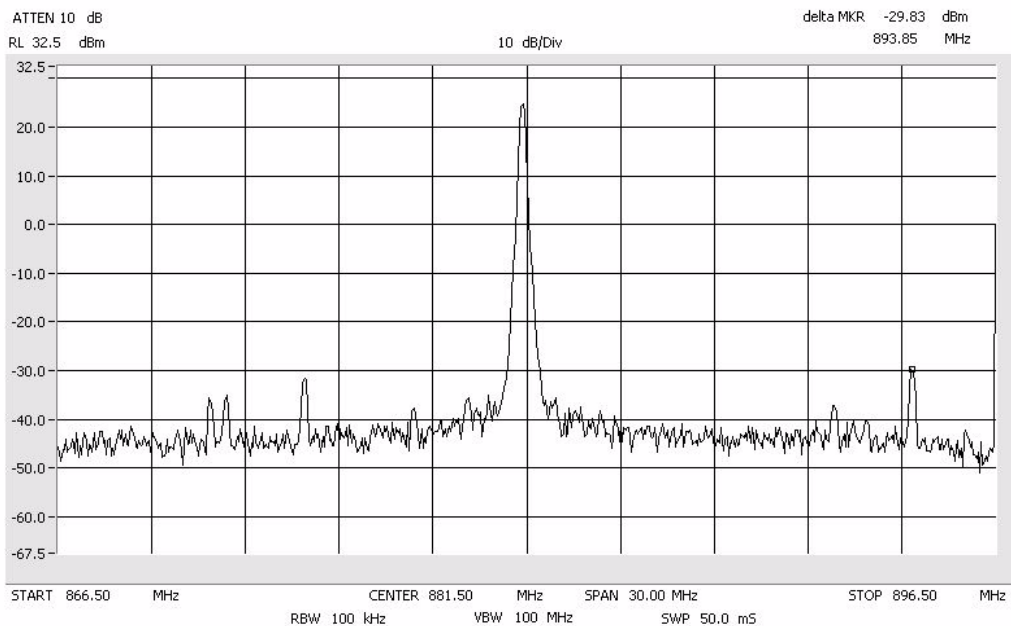
Center: 881.5 MHz
Span: 30 MHz
RBW/VBW: 100 kHz

Conducted Emissions Low Cellular 800 MHz

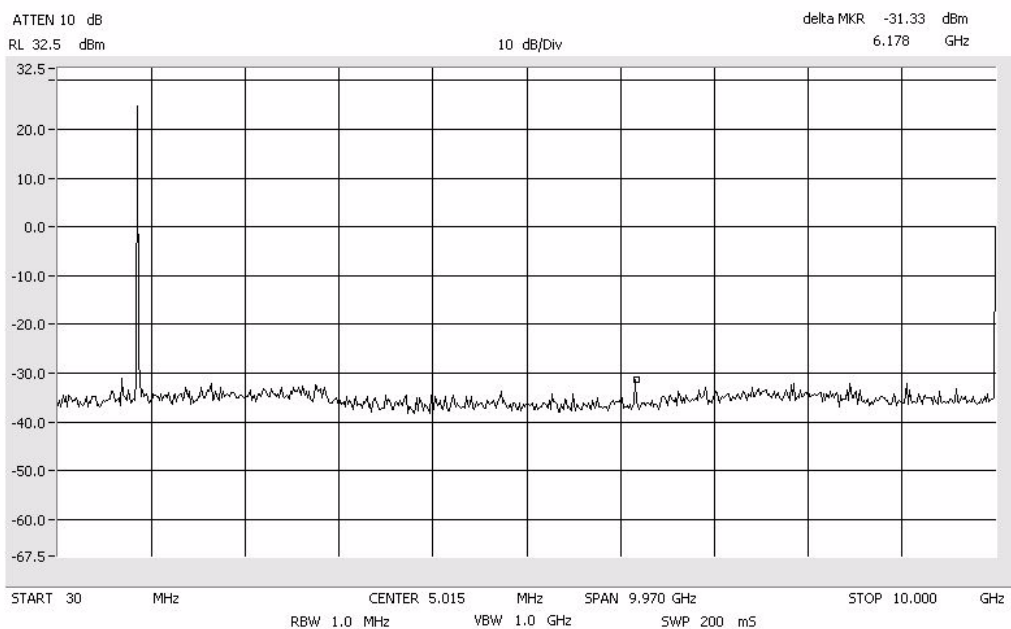


Conducted Emissions Low Cellular 800 MHz

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

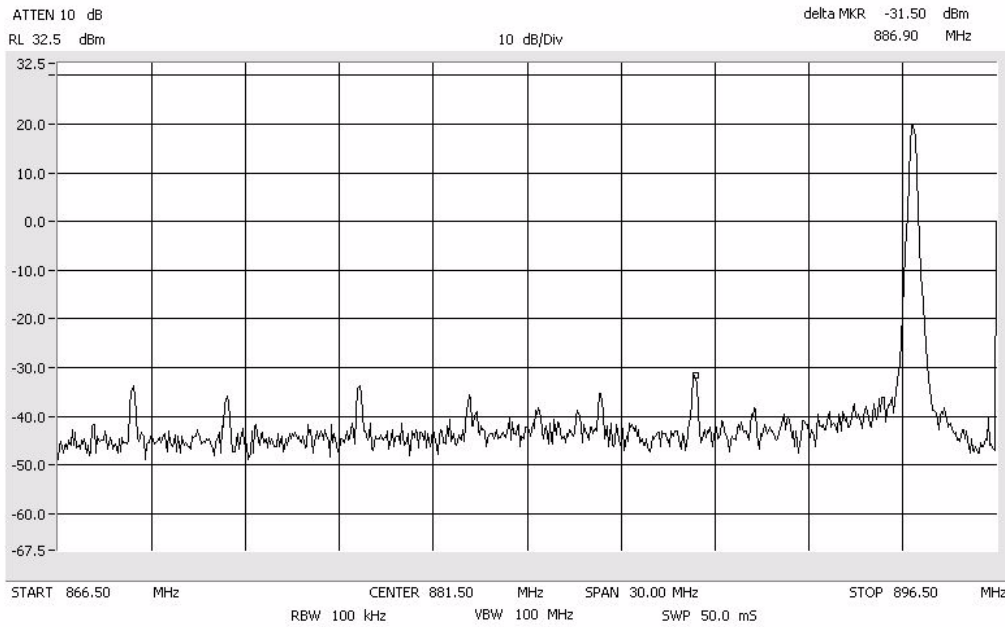


Conducted Emissions Mid Cellular 800 MHz

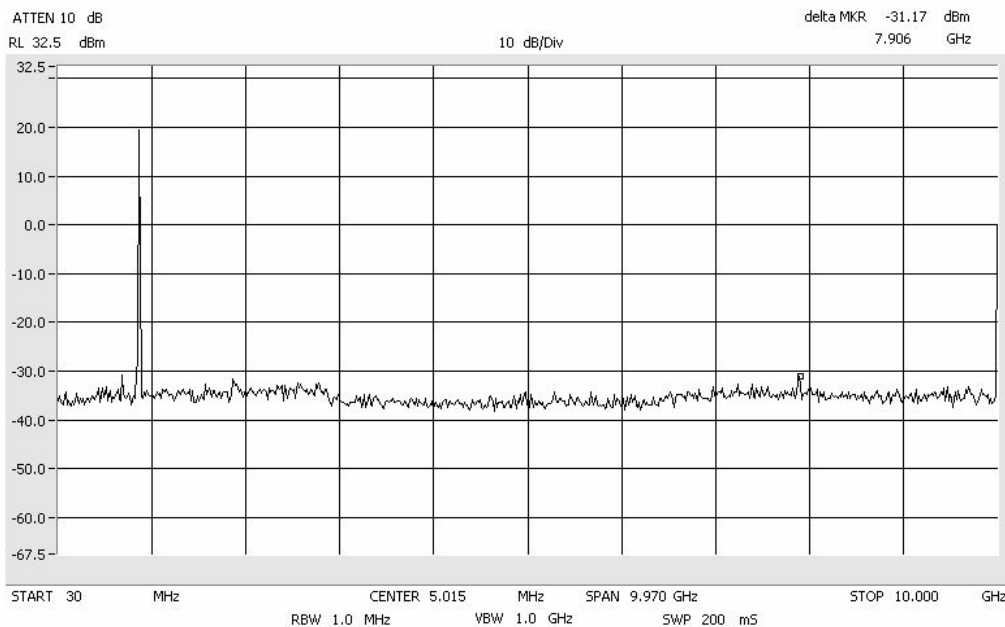


Conducted Emissions Mid Cellular 800 MHz

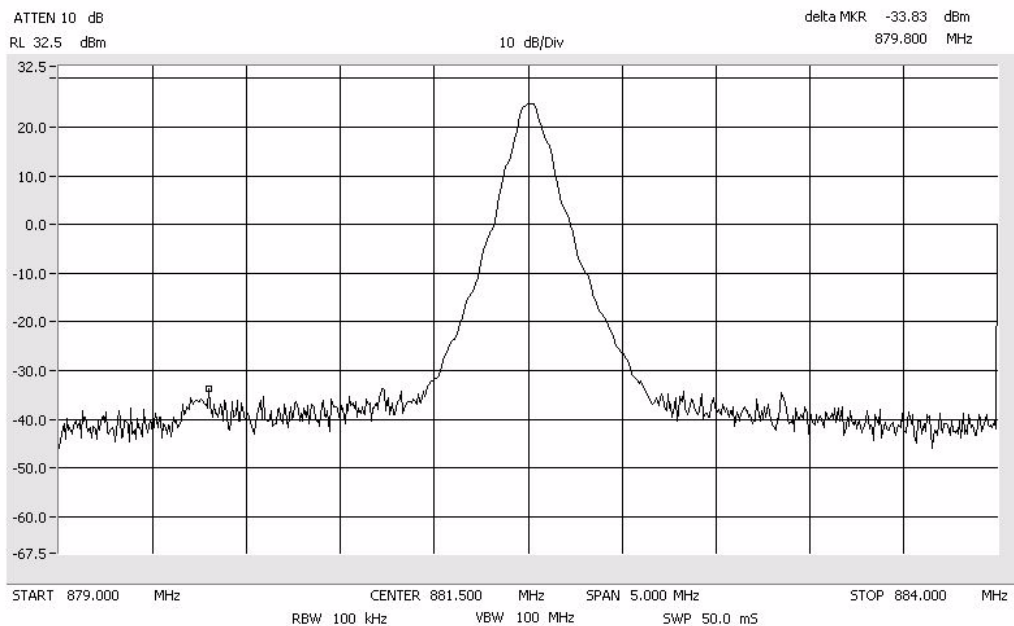
Span: 30 MHz to 10 GHz
RBW/VBW: 1 MHz



Conducted Emissions High Cellular 800 MHz

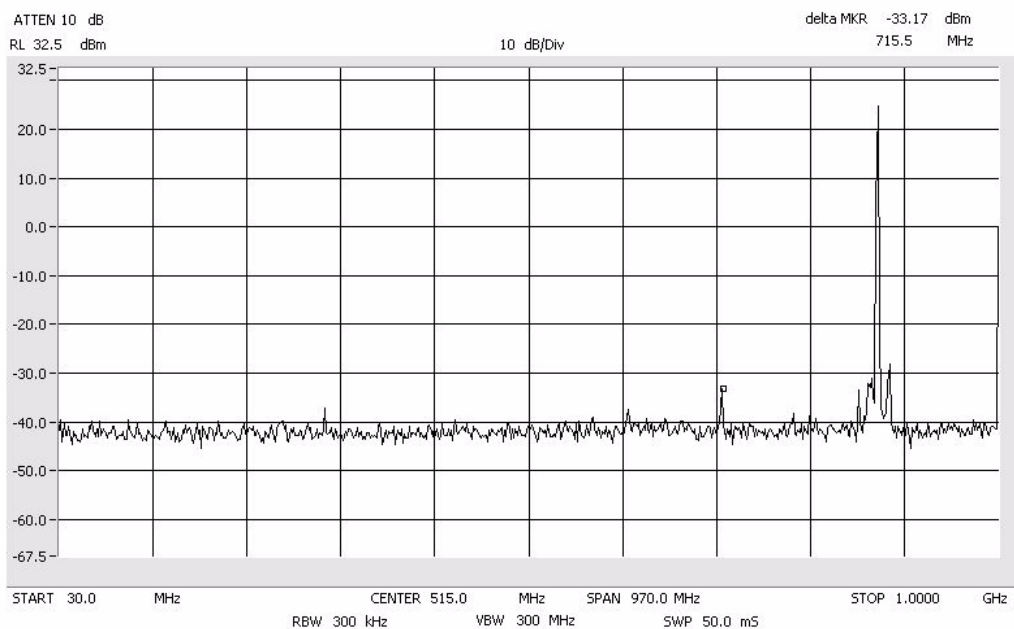


Conducted Emissions High Cellular 800 MHz



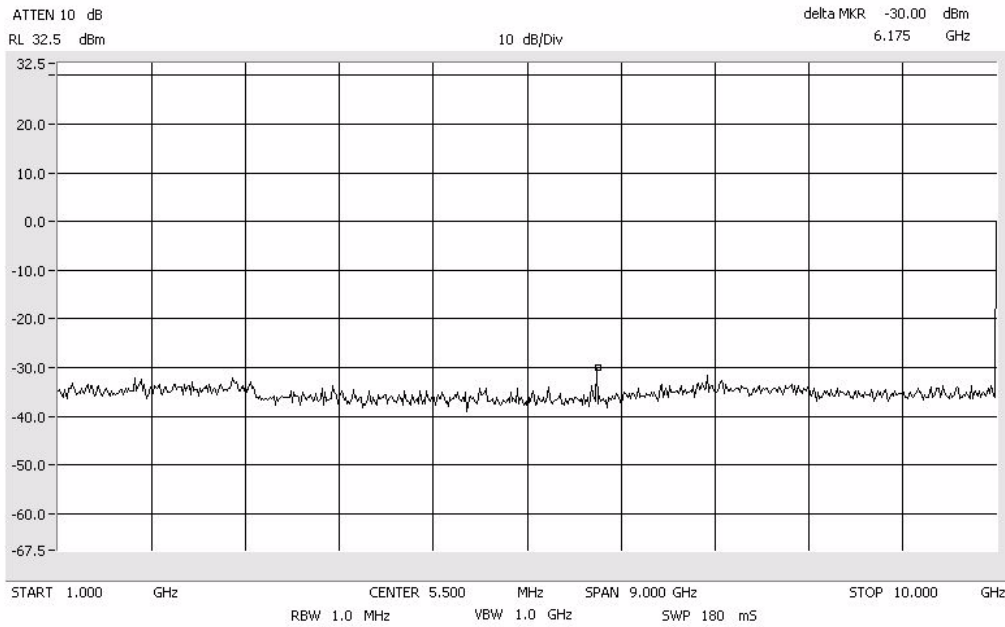
Mid Band
Span: 5 MHz
RBW/VBW: 100 kHz

Conducted Emissions FM 800 MHz



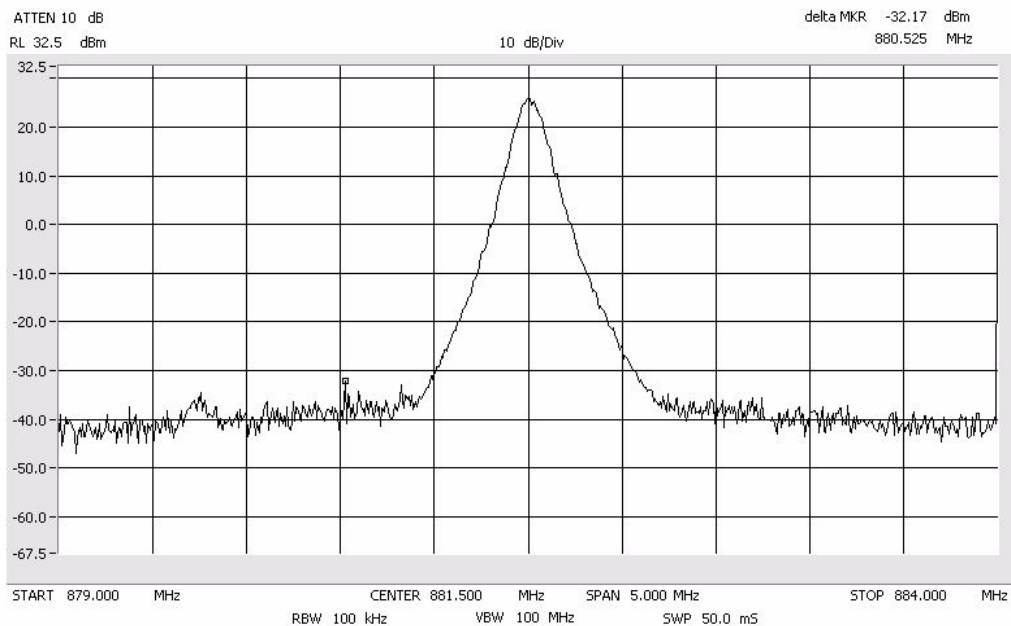
Conducted Emissions FM 800 MHz

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



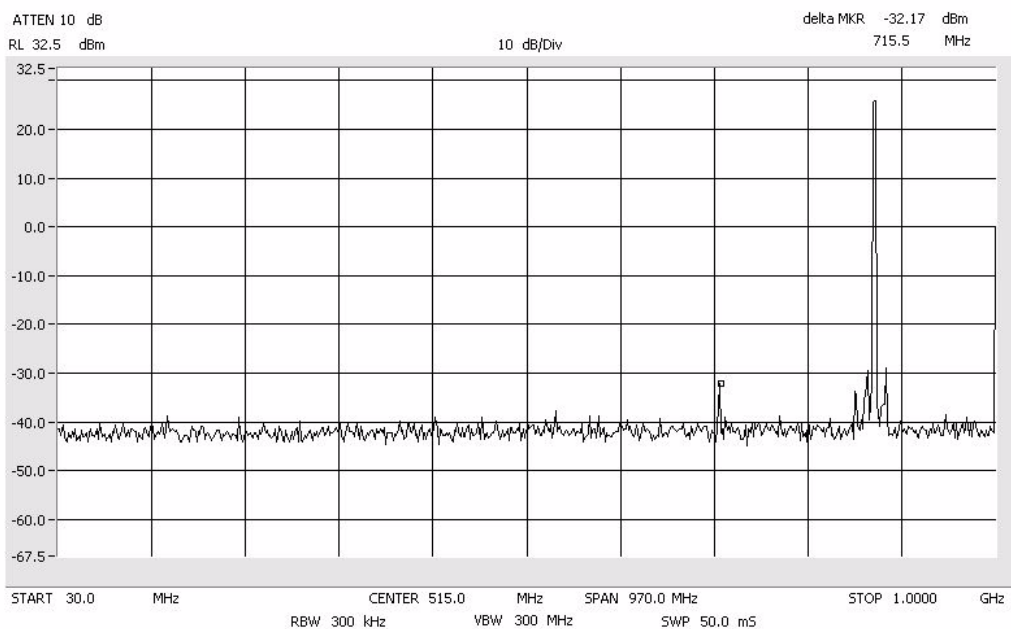
1 GHz to 10 GHz
RBW/VBW: 1 MHz

Conducted Emissions FM 800 MHz



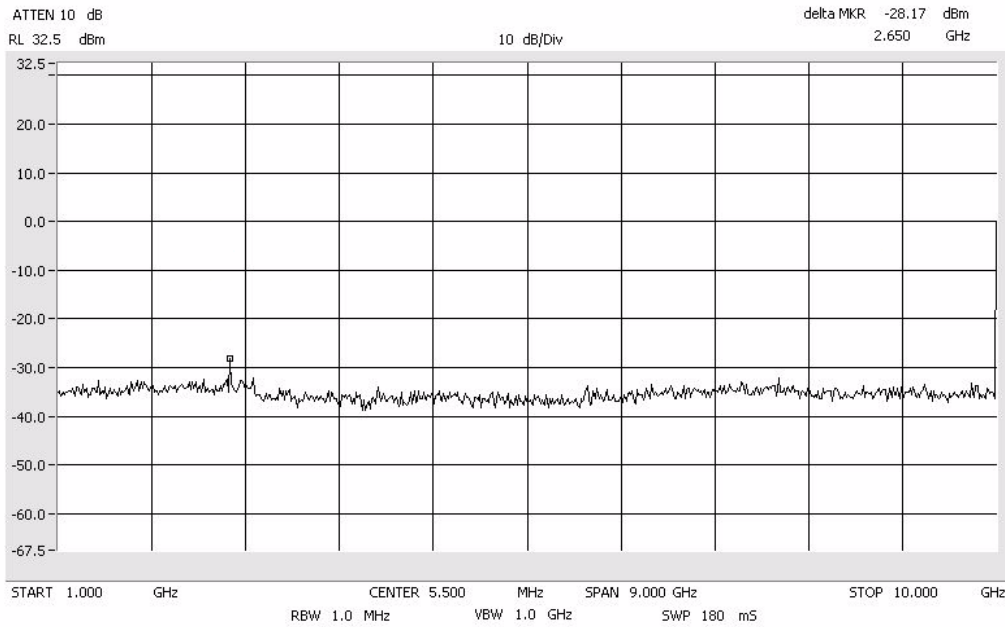
Mid Band
Span: 5 MHz
RBW/VBW: 100 kHz

Conducted Emissions TDMA 800 MHz



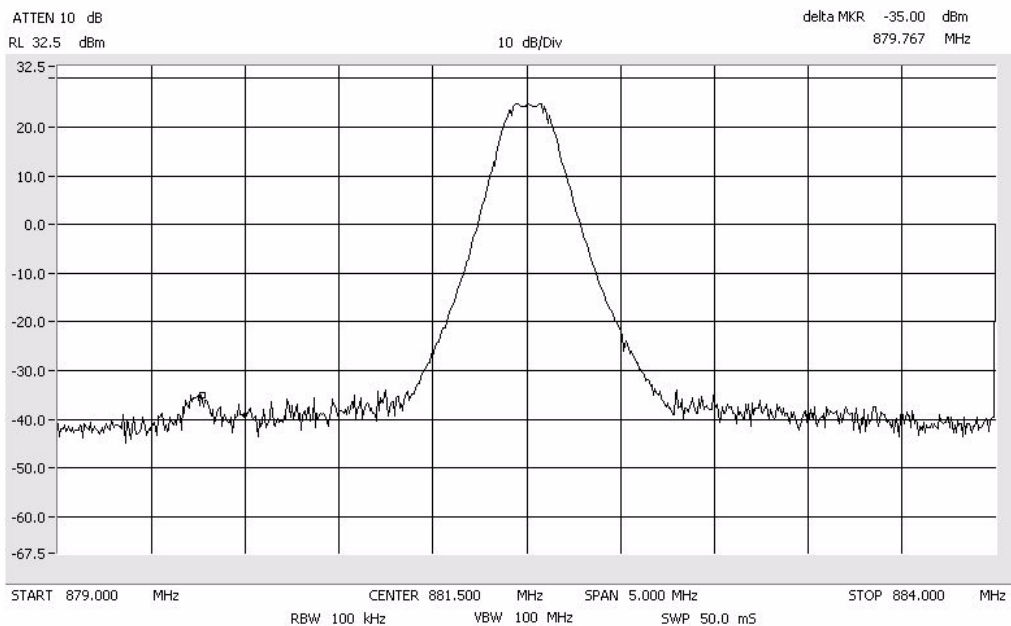
Conducted Emissions TDMA 800 MHz

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



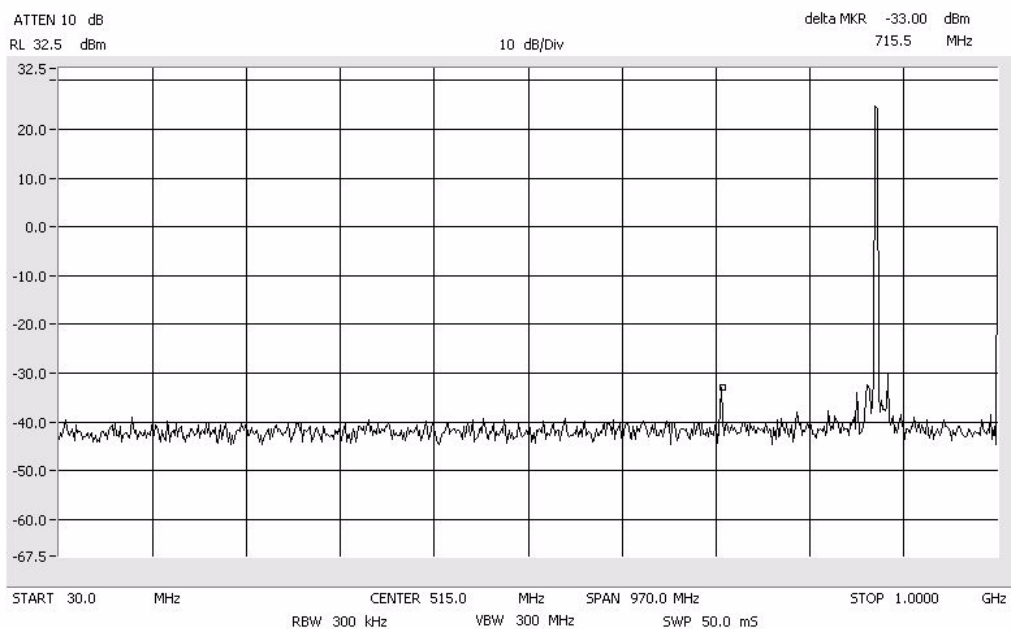
1 GHz to 10 GHz
RBW/VBW: 1 MHz

Conducted Emissions TDMA 800 MHz



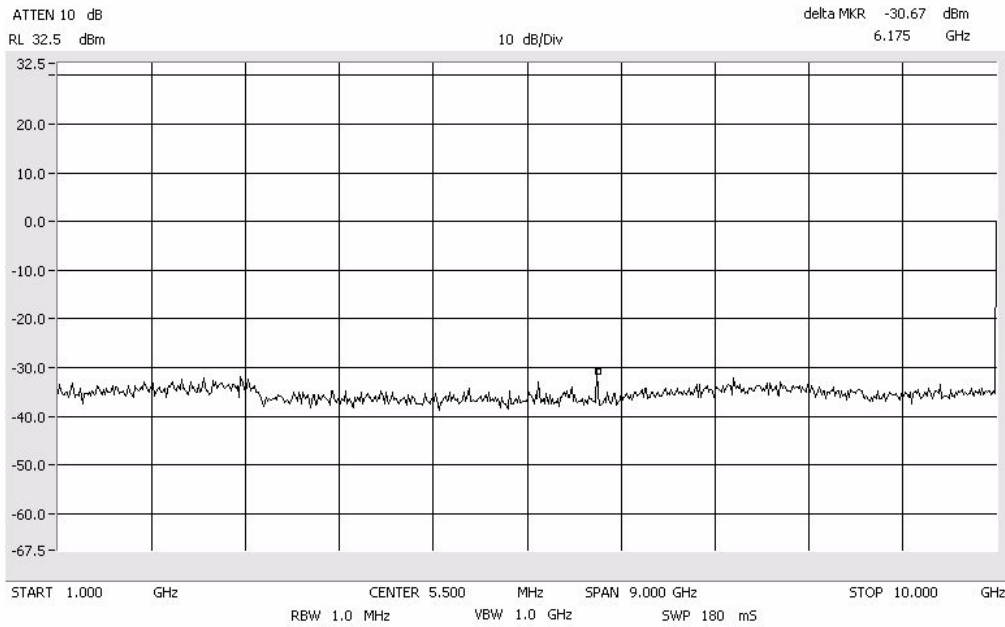
Mid Band
Span: 5 MHz
RBW/VBW: 100 kHz

Conducted Emissions GSM 800 MHz



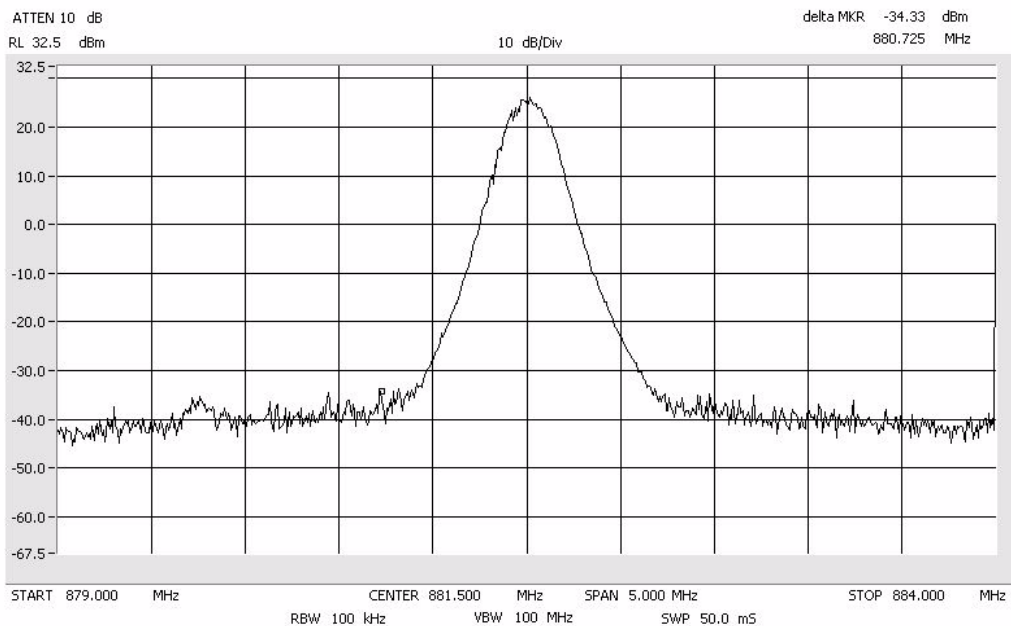
Conducted Emissions GSM 800 MHz

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



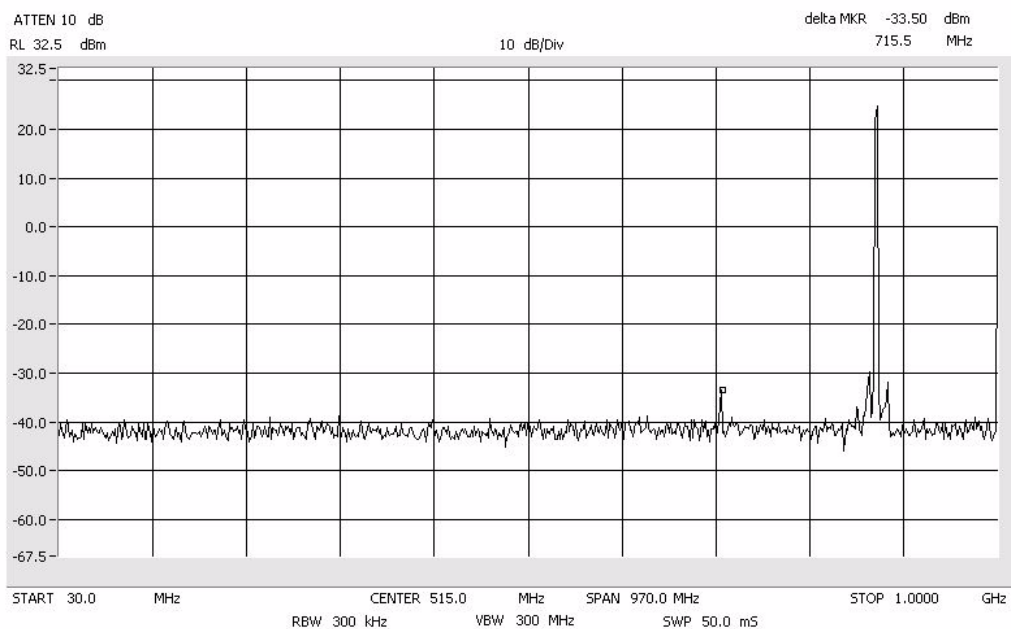
1 GHz to 10 GHz
RBW/VBW: 1 MHz

Conducted Emissions GSM 800 MHz



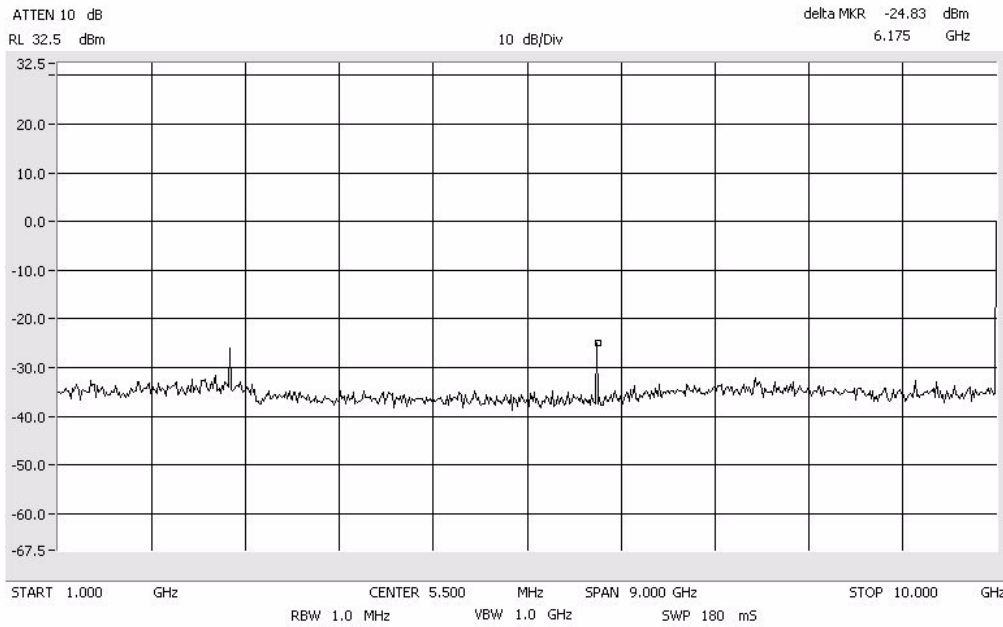
Mid Band
Span: 5 MHz
RBW/VBW: 100 kHz

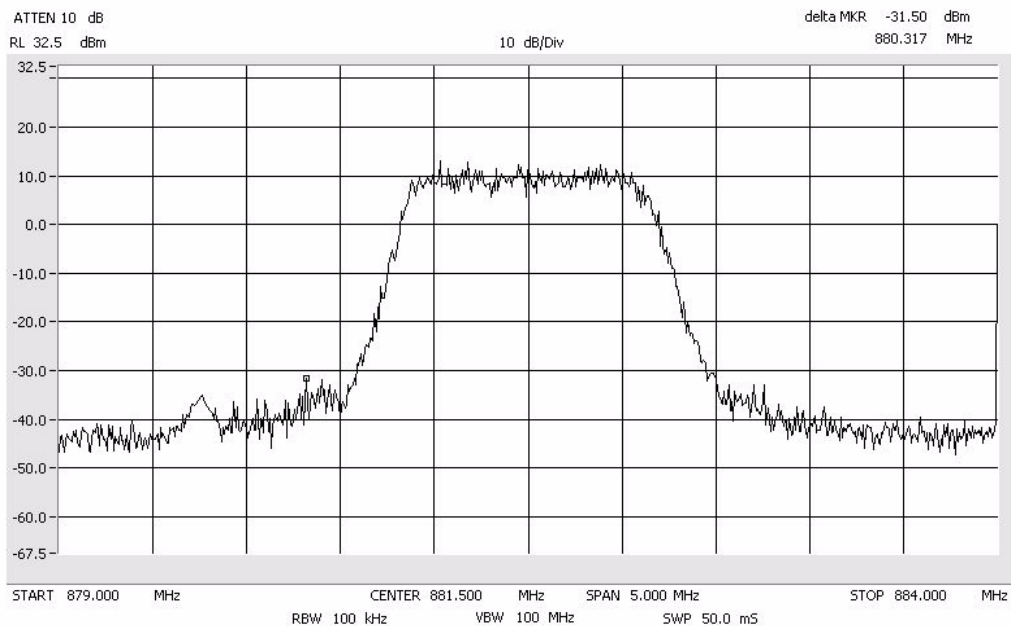
Conducted Emissions EDGE 800 MHz



Conducted Emissions EDGE 800 MHz

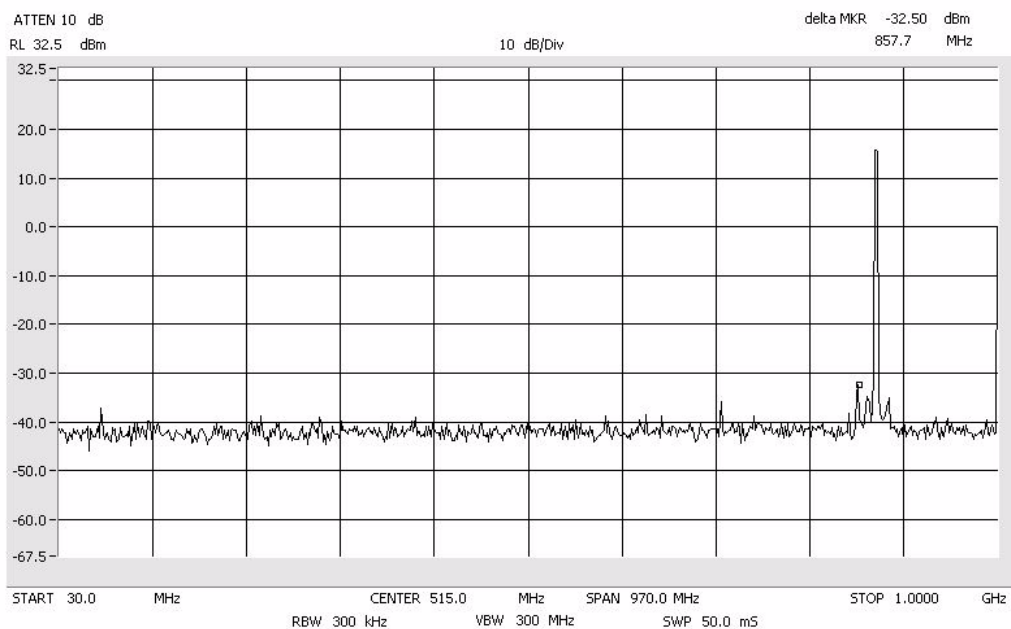
Span: 30 MHz to 1 GHz
RBW/VBW: 300 kHz





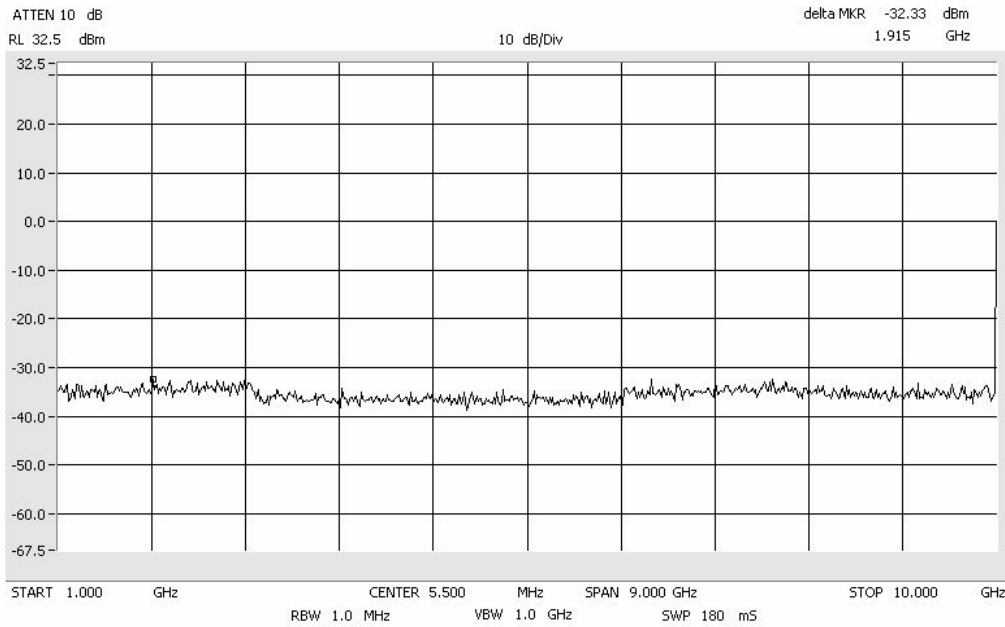
Mid Band
Span: 5 MHz
RBW/VBW: 100 kHz

Conducted Emissions CDMA 800 MHz



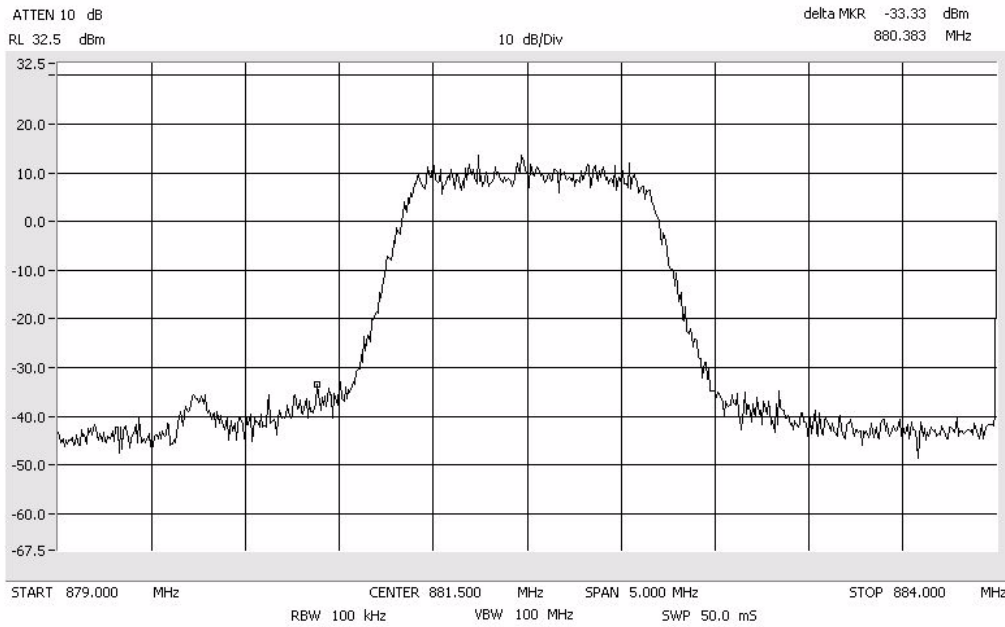
Conducted Emissions CDMA 800 MHz

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



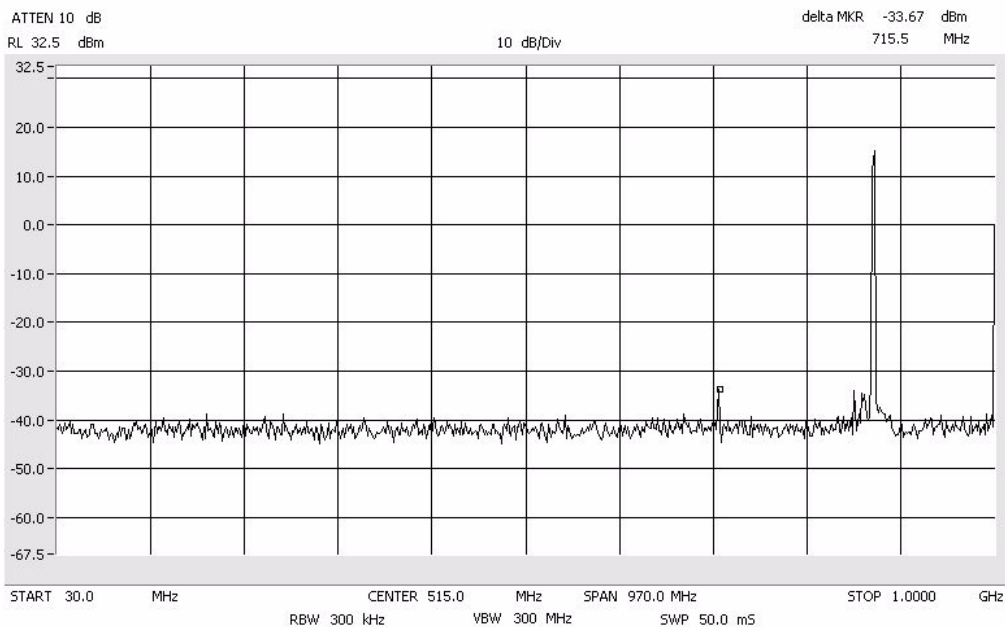
1 GHz to 10 GHz
RBW/VBW: 1 MHz

Conducted Emissions CDMA 800 MHz



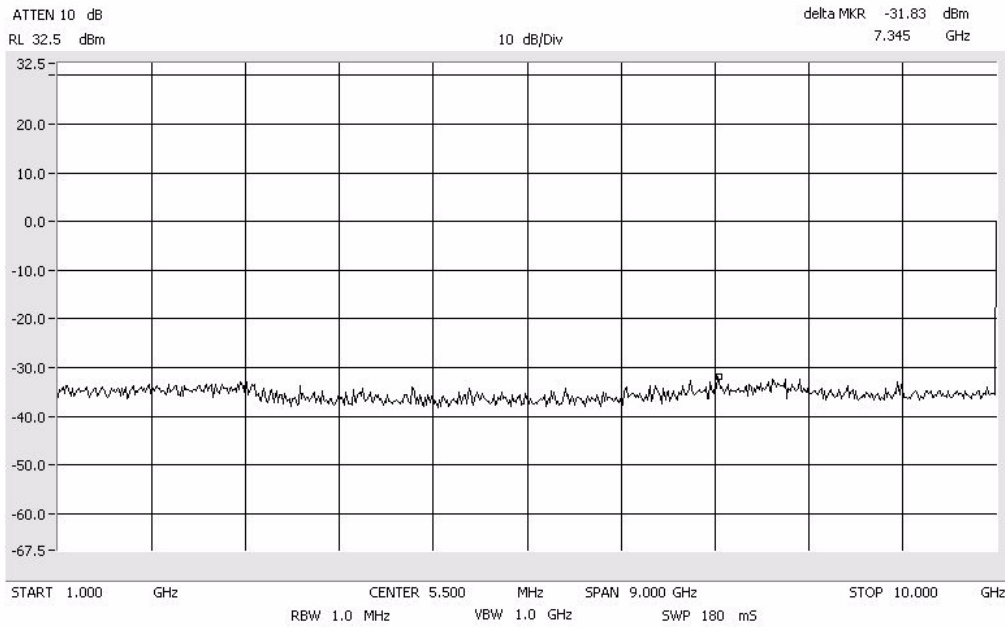
Mid Band
Span: 5 MHz
RBW/VBW: 100 kHz

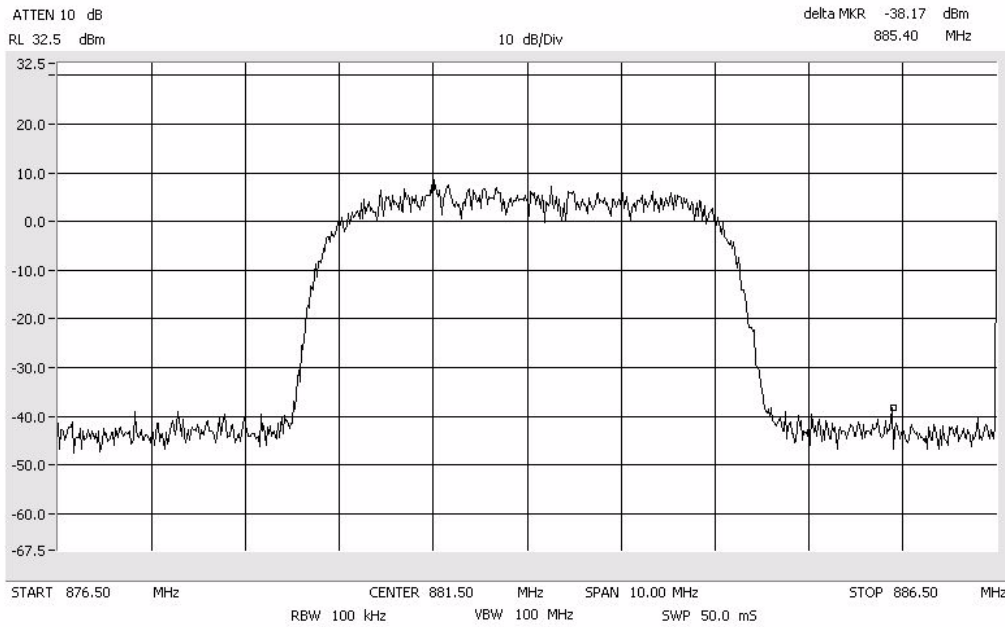
Conducted Emissions EVDO 800 MHz



Conducted Emissions EVDO 800 MHz

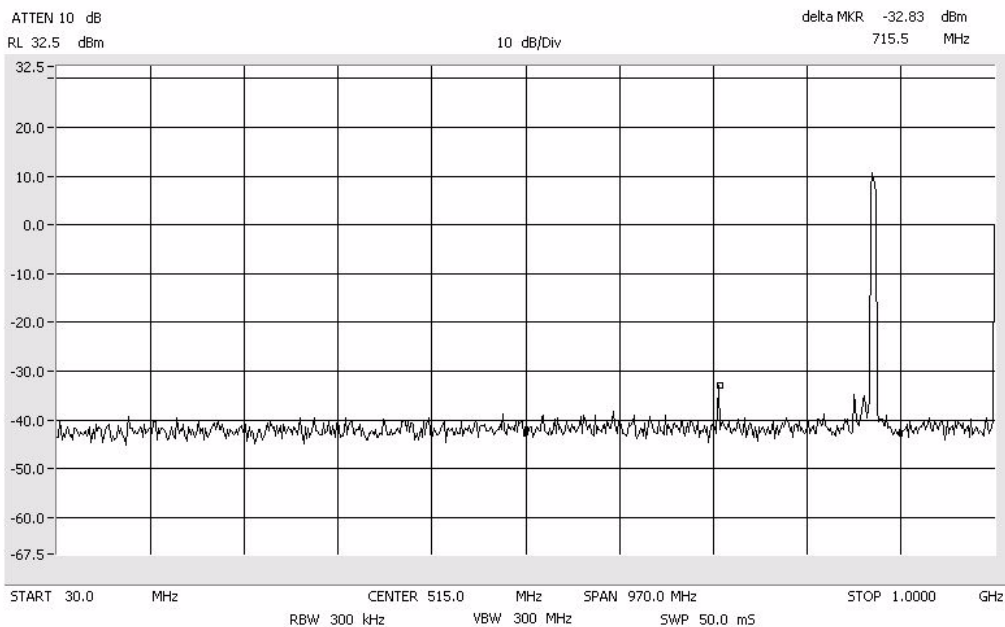
Span: 30 MHz to 1 GHz
RBW/VBW: 300 kHz





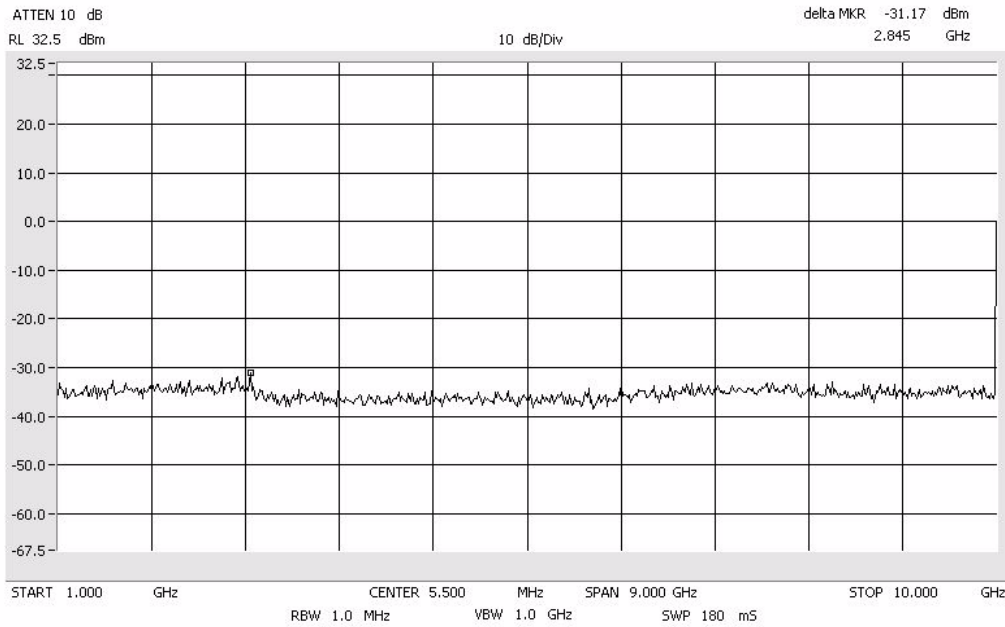
Mid Band
Span: 10 MHz
RBW/VBW: 100 kHz

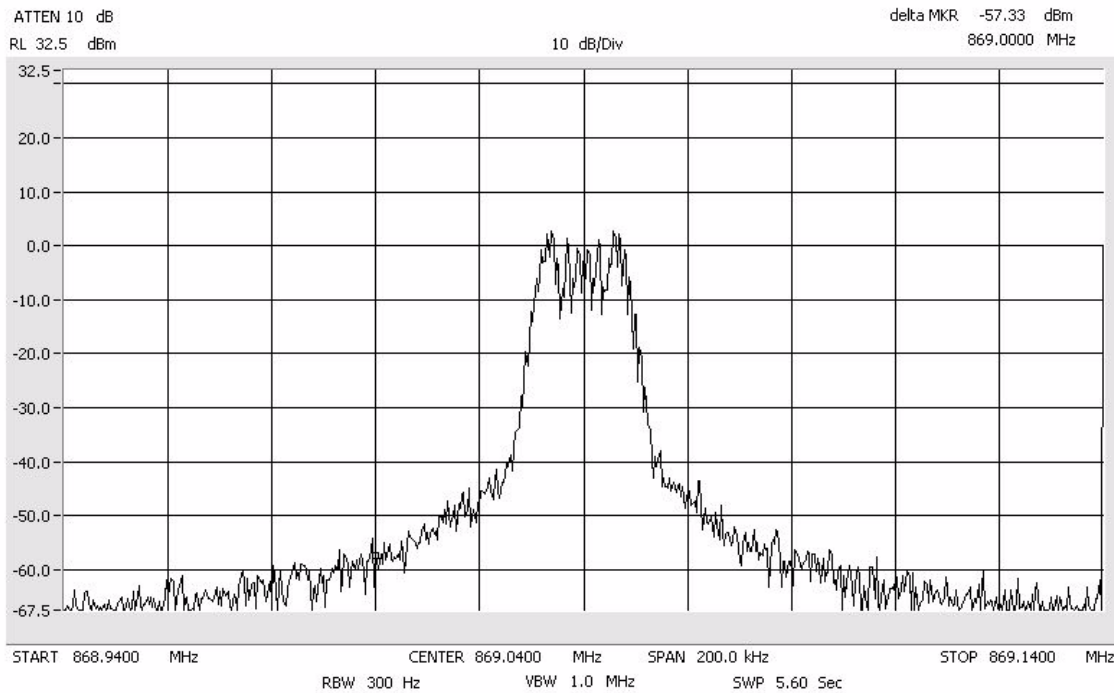
Conducted Emissions W-CDMA 800 MHz



Conducted Emissions W-CDMA 800 MHz

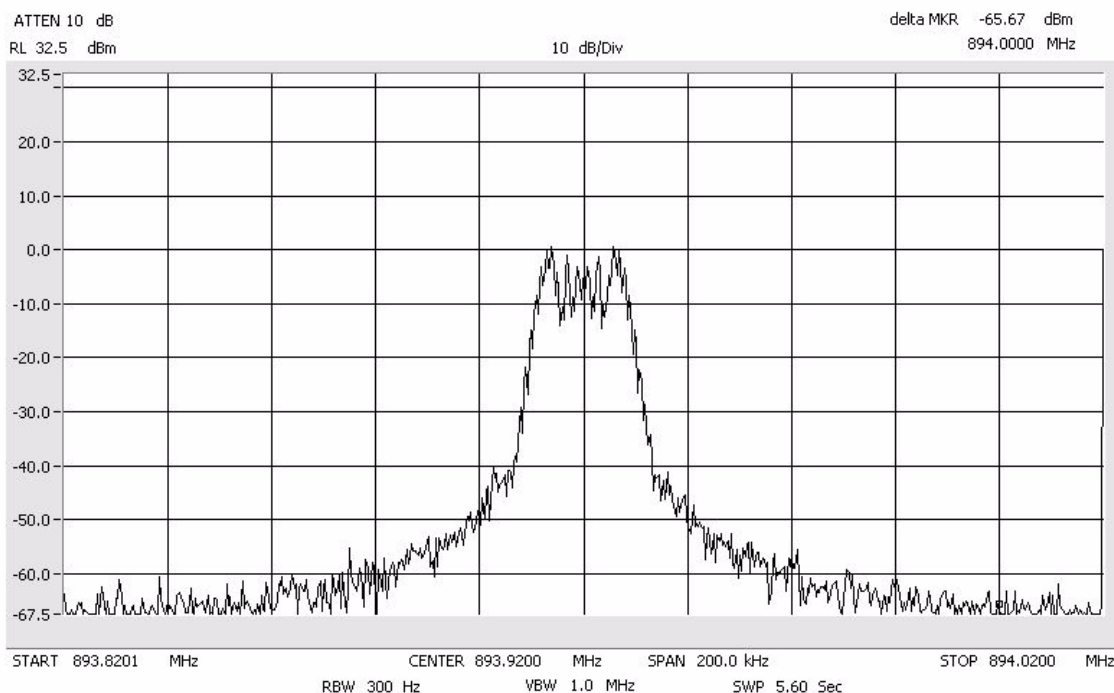
Span: 30 MHz to 1 GHz
RBW/VBW: 300 kHz





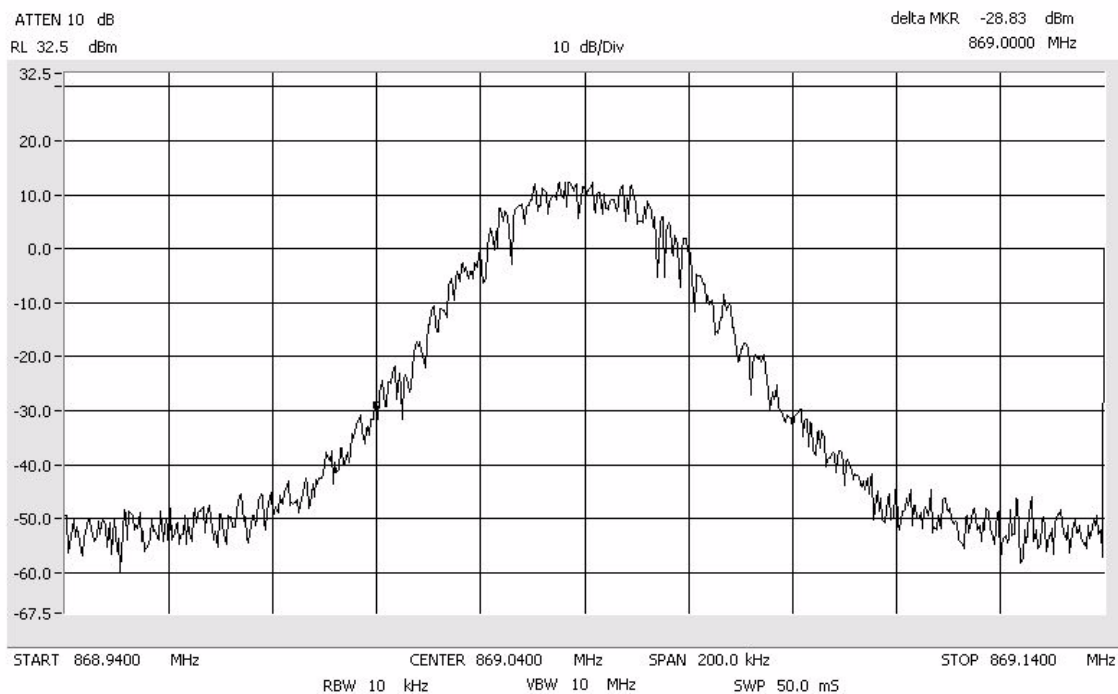
Center: 869.04 MHz
Span: 200 kHz
RBW: 300 Hz
VBW: 1 kHz

Band Edge FM



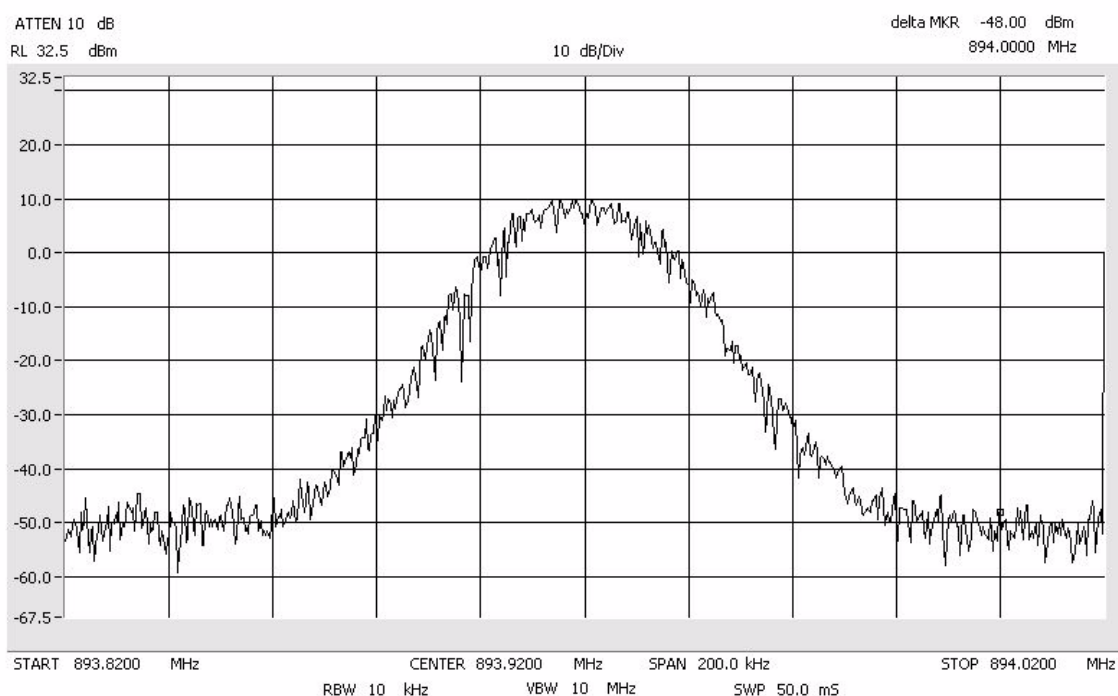
Band Edge FM

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



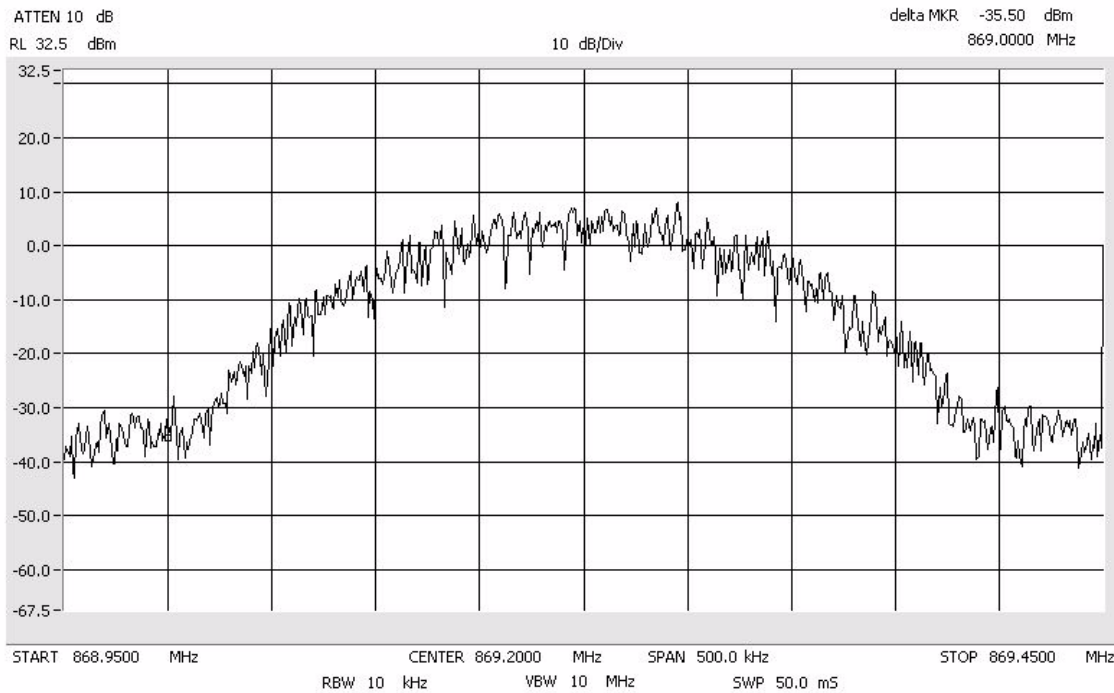
Center: 869.04 MHz
Span: 200 kHz
RBW: 10 kHz
VBW: 10 kHz

Band Edge TDMA



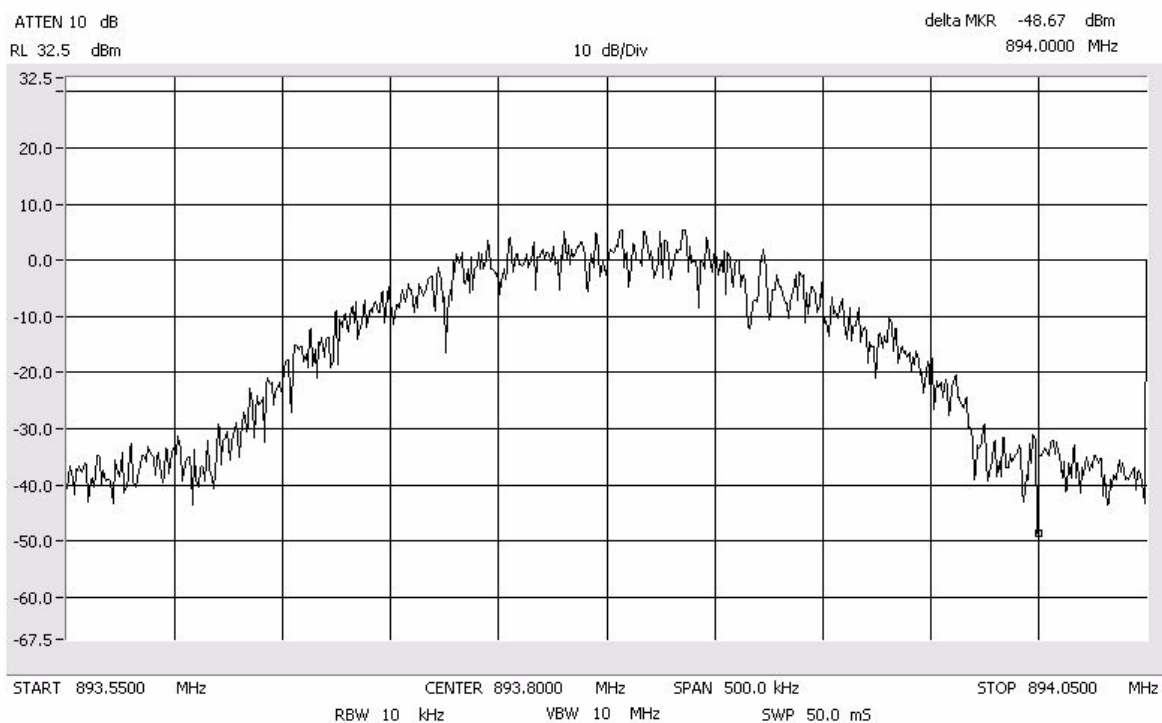
Band Edge TDMA

Center: 893.92 MHz
Span: 200 kHz
RBW: 10 kHz
VBW: 10 kHz



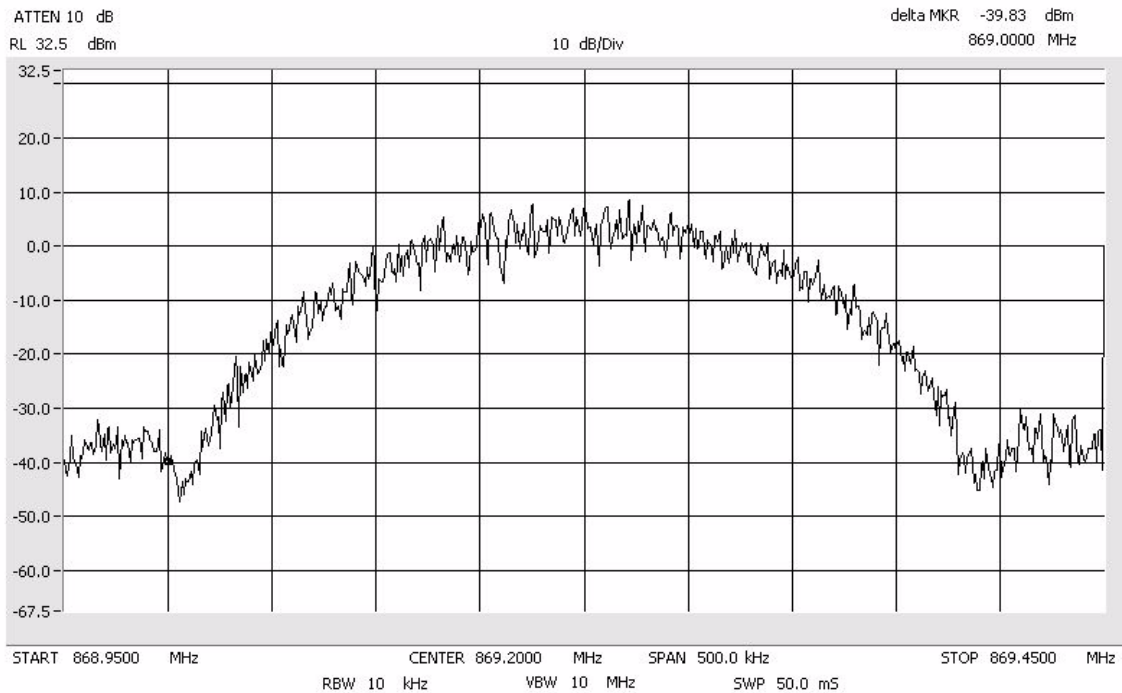
Center: 869.2 MHz
Span: 500 kHz
RBW: 10 kHz
VBW: 10 kHz

Band Edge GSM



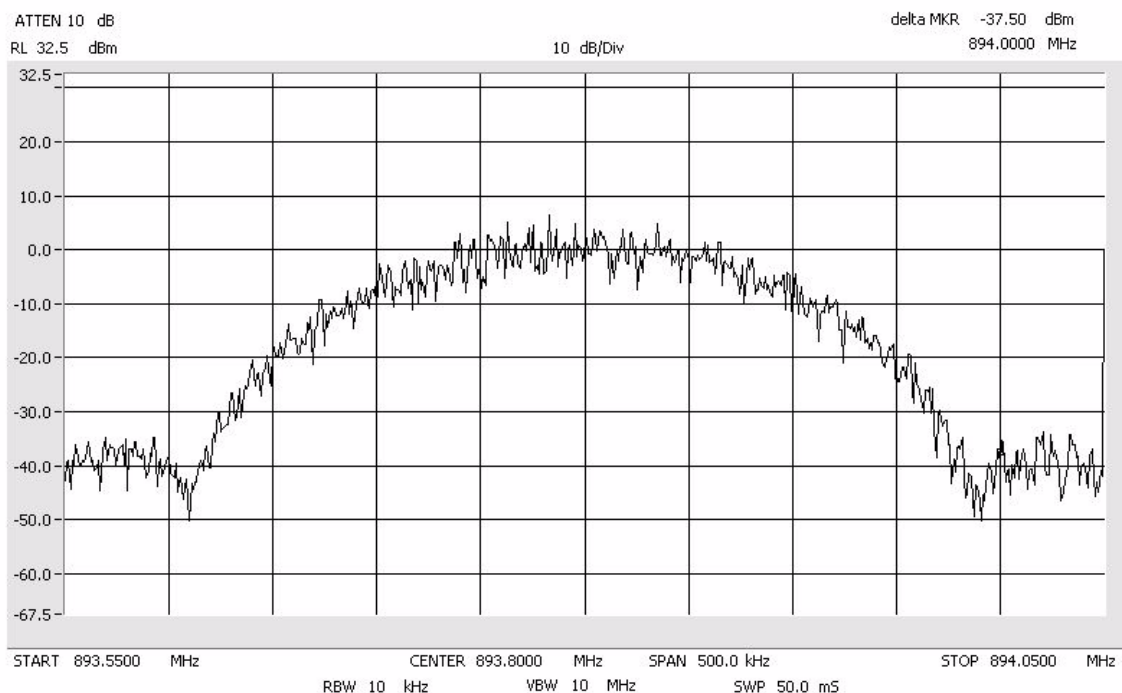
Band Edge GSM

Center: 893.8 MHz
Span: 500 kHz
RBW: 10 kHz
VBW: 10 kHz



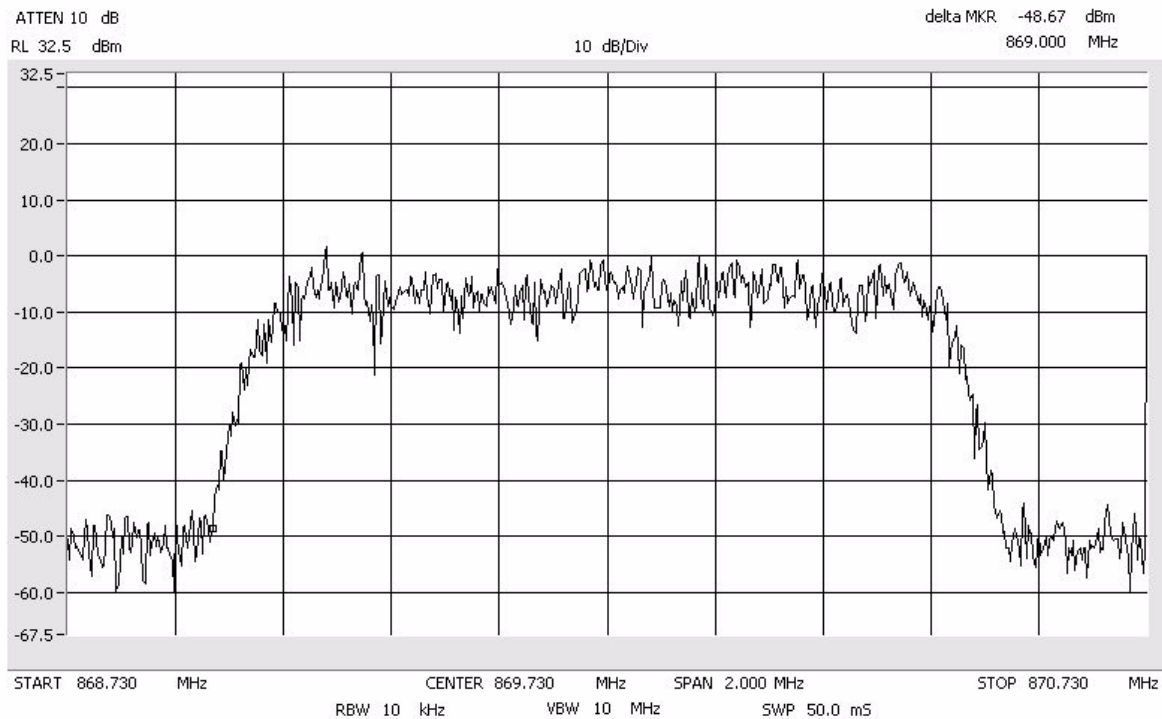
Center: 869.2 MHz
Span: 500 kHz
RBW: 10 kHz
VBW: 10 kHz

**Band Edge
EDGE**

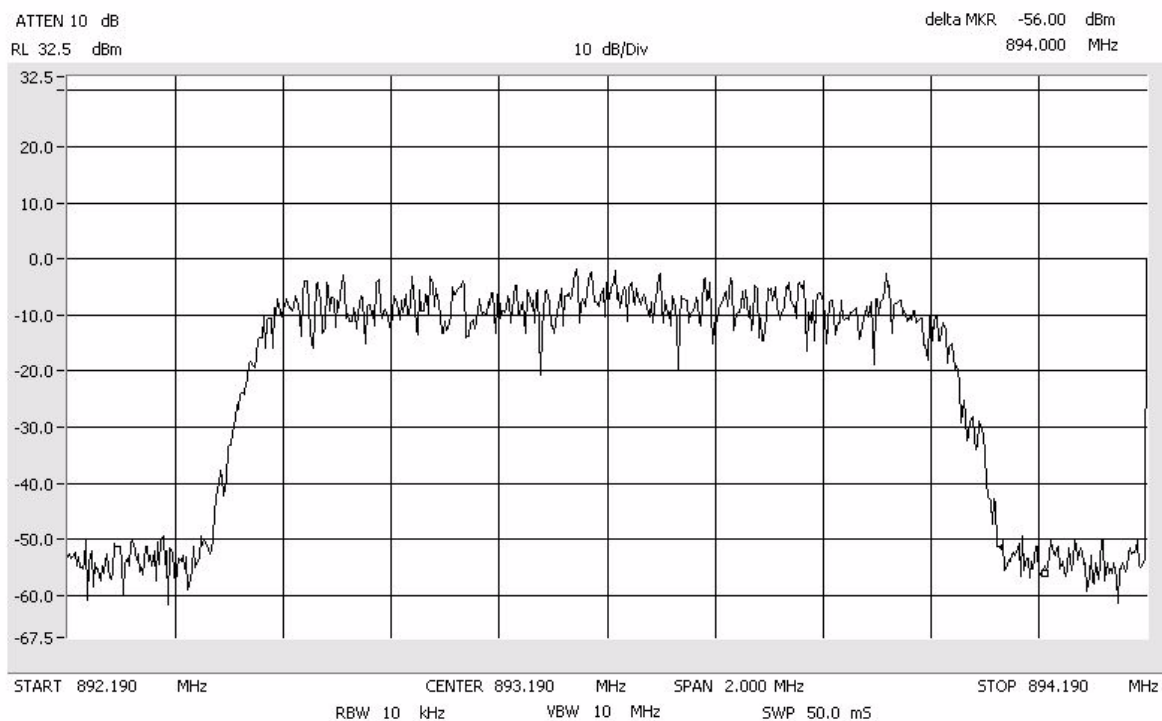


**Band Edge
EDGE**

Center: 893.8 MHz
Span: 500 kHz
RBW: 10 kHz
VBW: 10 kHz

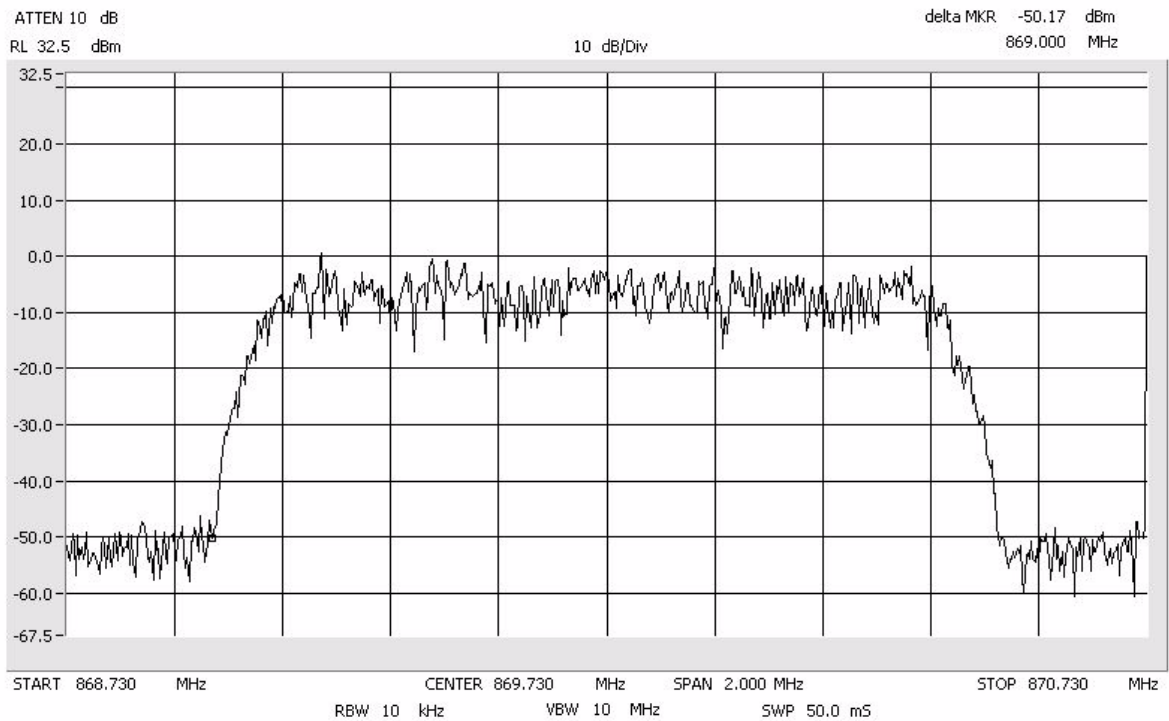


**Band Edge
CDMA**

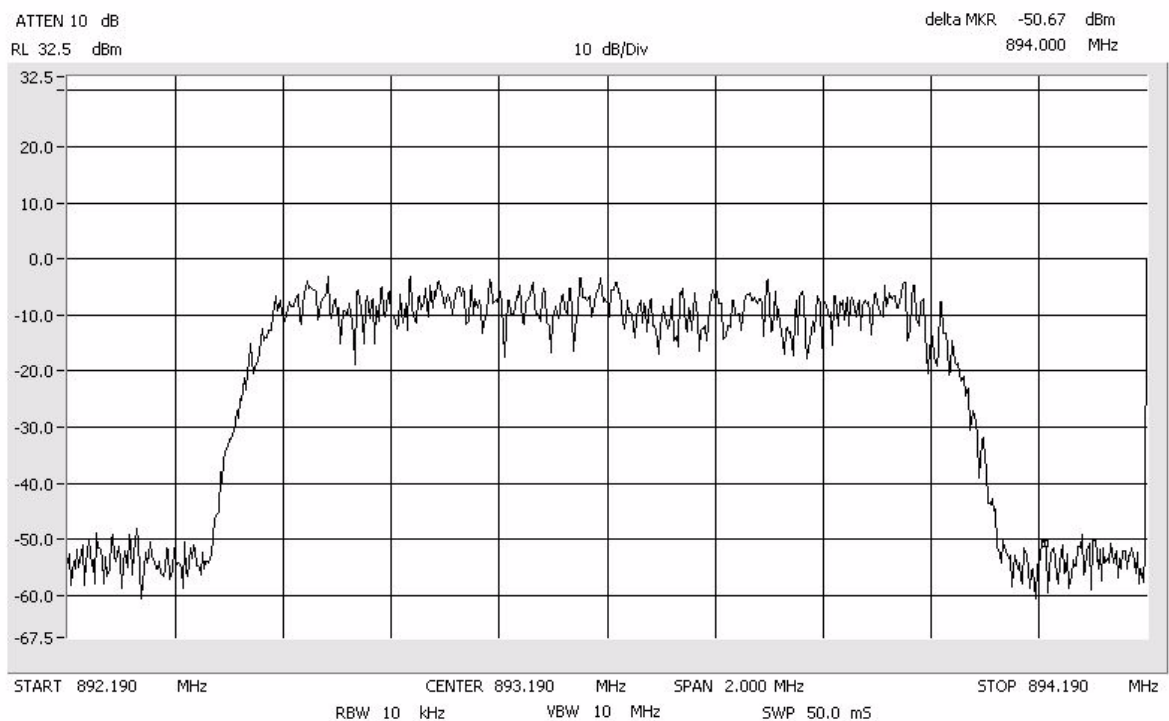


**Band Edge
CDMA**

Center: 893.19 MHz
Span: 2 MHz
RBW: 10 kHz
VBW: 10 kHz
38 of 103
MN061207

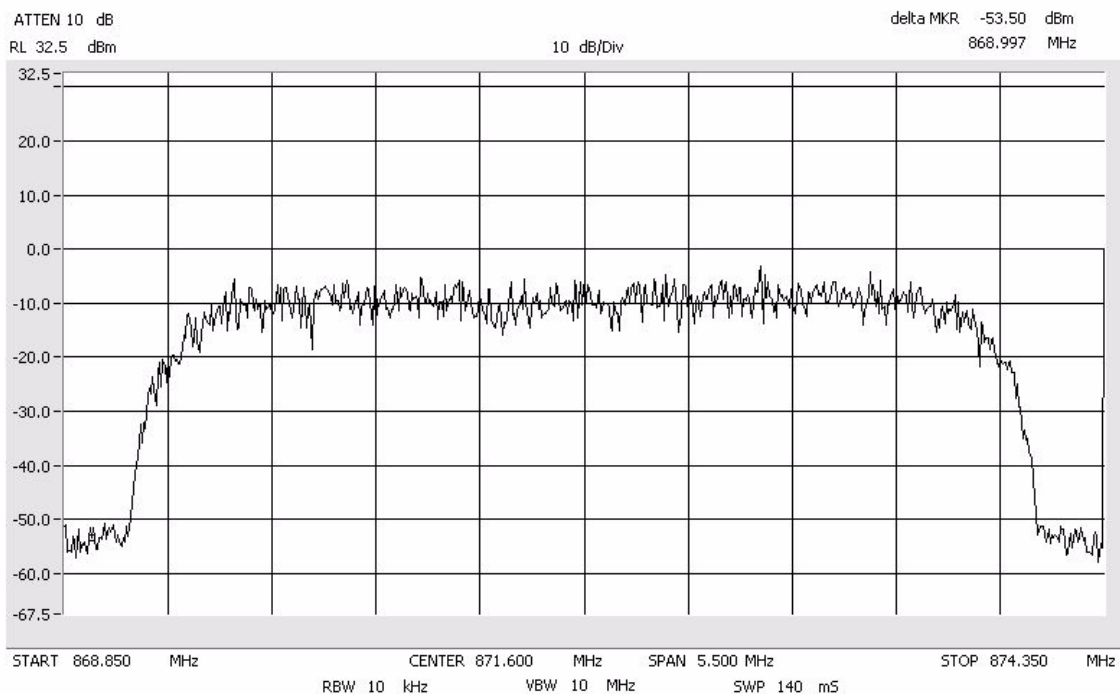


**Band Edge
EVDO**



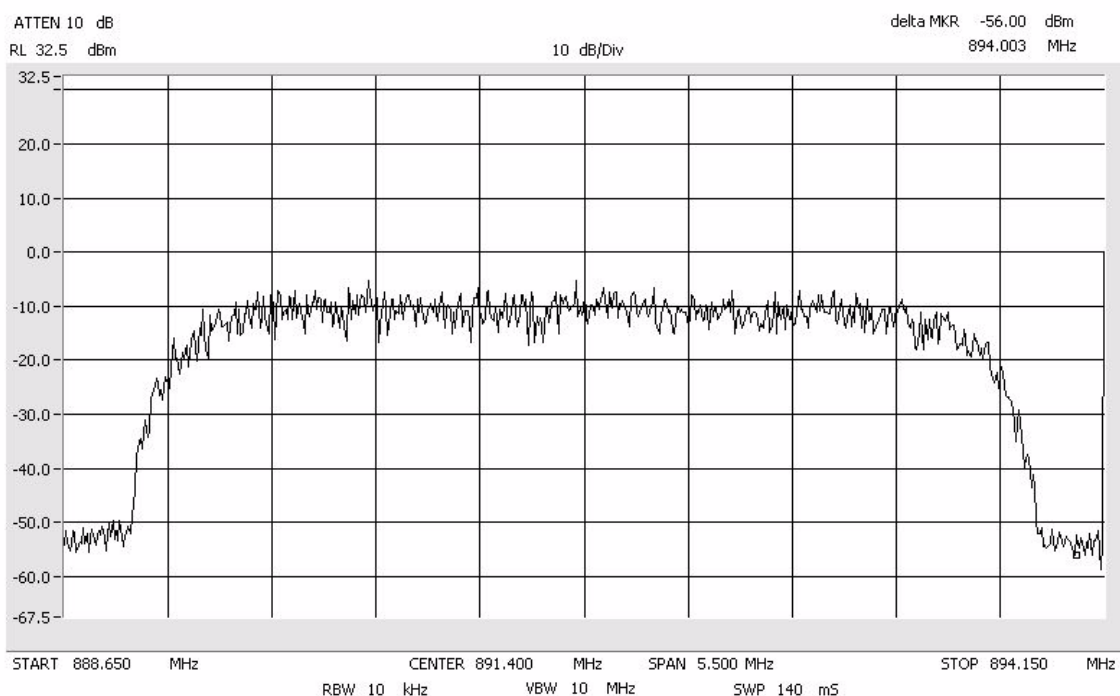
**Band Edge
EVDO**

Center: 893.19 MHz
Span: 2 MHz
RBW: 10 kHz
VBW: 10 kHz
39 of 103
MN061207



Center: 871.60 MHz
Span: 5.5 MHz
RBW: 10 kHz
VBW: 10 kHz

Band Edge W-CDMA



Band Edge W-CDMA

Center: 891.40 MHz
Span: 5.5 MHz
RBW: 10 kHz
VBW: 10 kHz

Conducted Output Power Test for ADC Inc.

Digivance® Indoor Coverage Solution

Model Numbers DGVIH1110000000000 and DGVIR1300000000000

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***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.

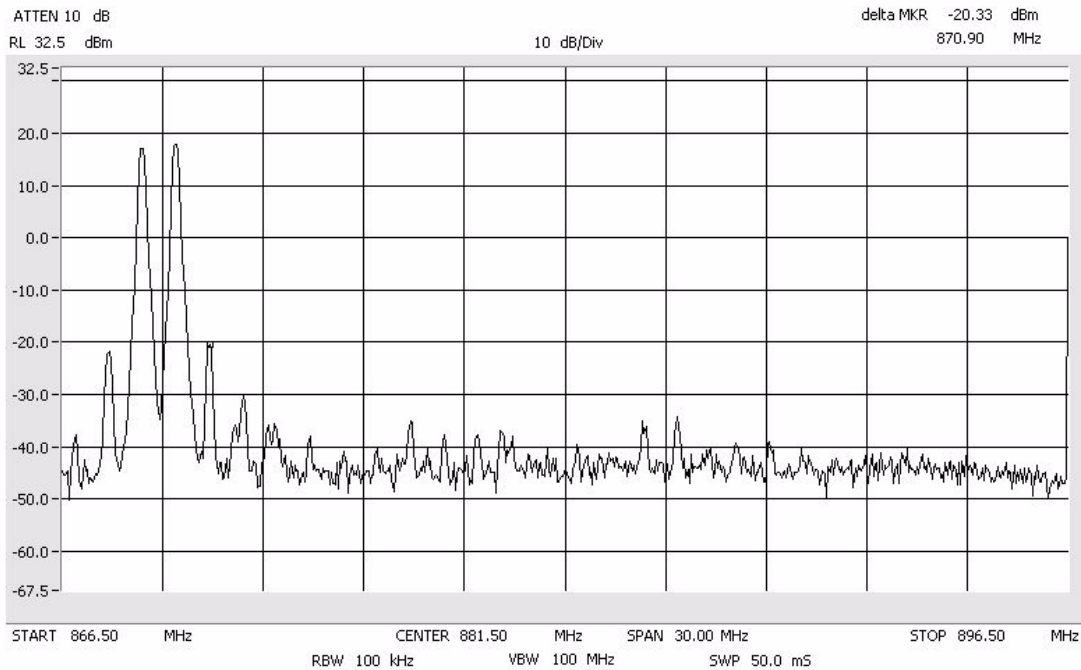
FM	502.34 mWatts	GSM	501.18 mWatts
Carrier Frequency	Carrier Output	Carrier Frequency	Carrier Output
869.2 MHz	<u>24.92</u> dBm	869.5 MHz	<u>24.94</u> dBm
881.5 MHz	<u>27.01</u> dBm	881.5 MHz	<u>27.00</u> dBm
893.8 MHz	<u>26.37</u> dBm	893.5 MHz	<u>22.85</u> dBm
TDMA	295.80 mWatts	EDGE	286.41 mWatts
Carrier Frequency	Carrier Output	Carrier Frequency	Carrier Output
869.2 MHz	<u>23.25</u> dBm	869.5 MHz	<u>22.47</u> dBm
881.5 MHz	<u>24.71</u> dBm	881.5 MHz	<u>24.57</u> dBm
893.8 MHz	<u>23.61</u> dBm	893.5 MHz	<u>21.89</u> dBm
CDMA	63.97 mWatts	EVDO	79.07 mWatts
Carrier Frequency	Carrier Output	Carrier Frequency	Carrier Output
869.8 MHz	<u>15.89</u> dBm	869.8 MHz	<u>16.89</u> dBm
881.5 MHz	<u>18.06</u> dBm	881.5 MHz	<u>18.98</u> dBm
893.2 MHz	<u>15.58</u> dBm	893.2 MHz	<u>16.57</u> dBm
W-CDMA	188.36 mWatts		
Carrier Frequency	Carrier Output		
871.6 MHz	<u>20.94</u> dBm		
881.5 MHz	<u>22.75</u> dBm		
891.4 MHz	<u>19.39</u> dBm		

Intermodulation Test for ADC Inc
Digivance® Indoor Coverage Solution
Model Numbers DGVIIH1110000000000 and
DGVIR13000000000000

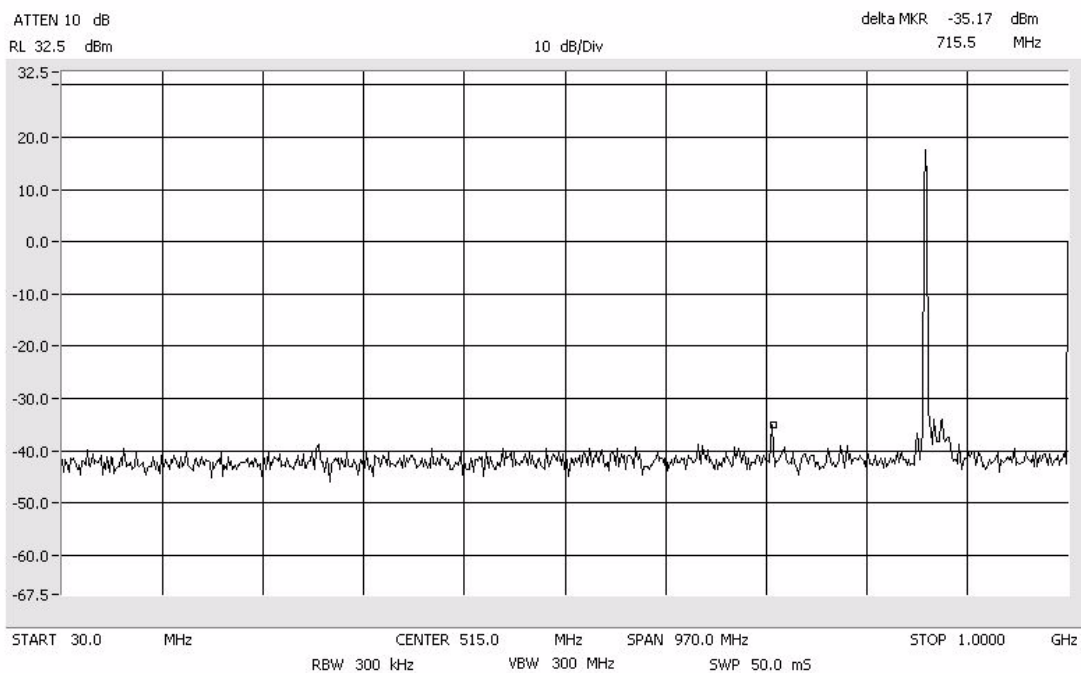
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The inter-modulation products test was performed for the EUT. Three tests were performed with the modulation type. Test 1 was with 2 signals input to the EUT at lower end channels. Test 2 was with 2 signals input to the EUT at upper end channels. Test 3 was with 2 signals input to the EUT at upper and lower end channels. The modulation types tested were FM, TDMA, GSM, EDGE, CDMA, EVDO, and W-CDMA. An investigation was made from 30 MHz to the 10th Harmonic of the highest fundamental frequency (~10 GHz). The following plots show the results. Modulation types EVDO and CDMA have the same mask and intermodulation properties. Modulation types GSM and EDGE have the same mask and intermodulation properties.

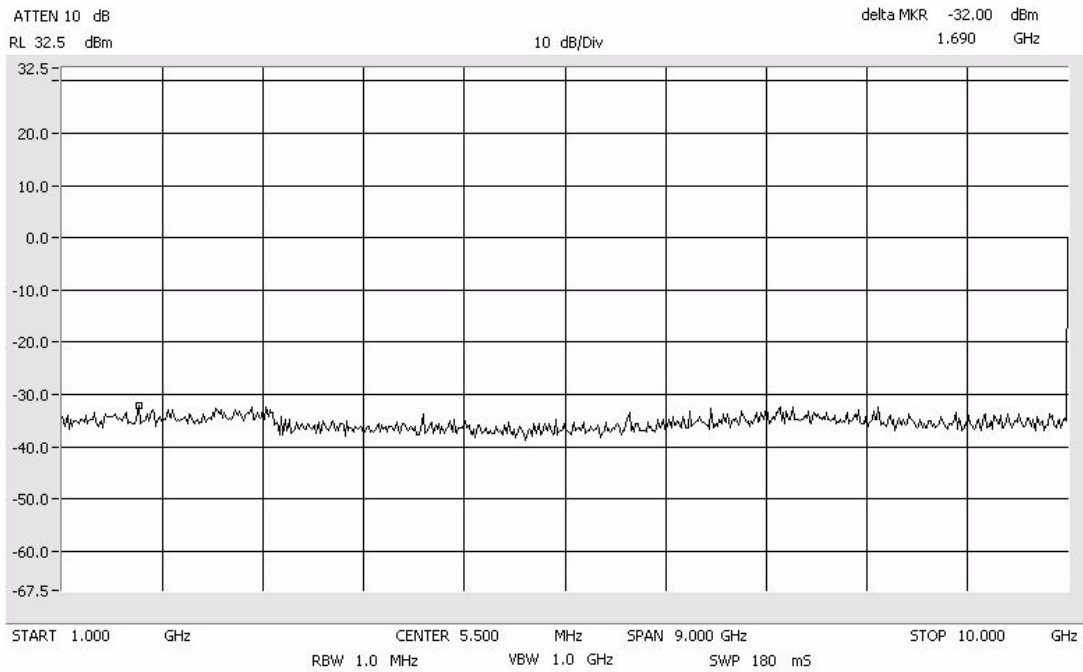
Results:
(See Plots)



**Intermodulation
Close
Lower
FM
Cellular 800 MHz**

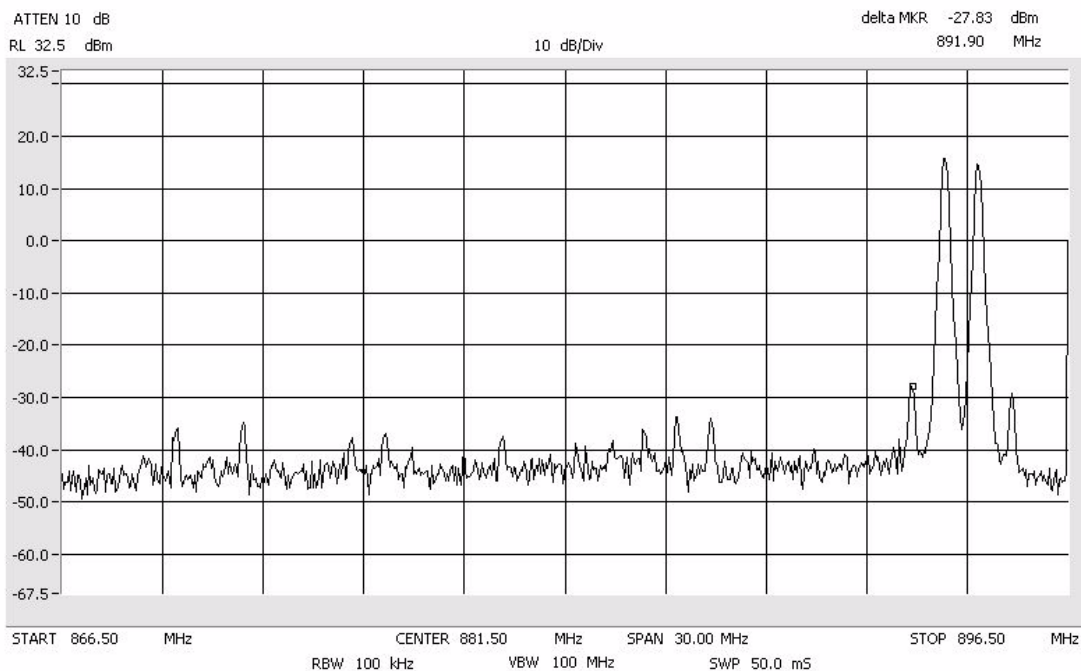


**Intermodulation
Close
Lower
FM
Cellular 800 MHz**

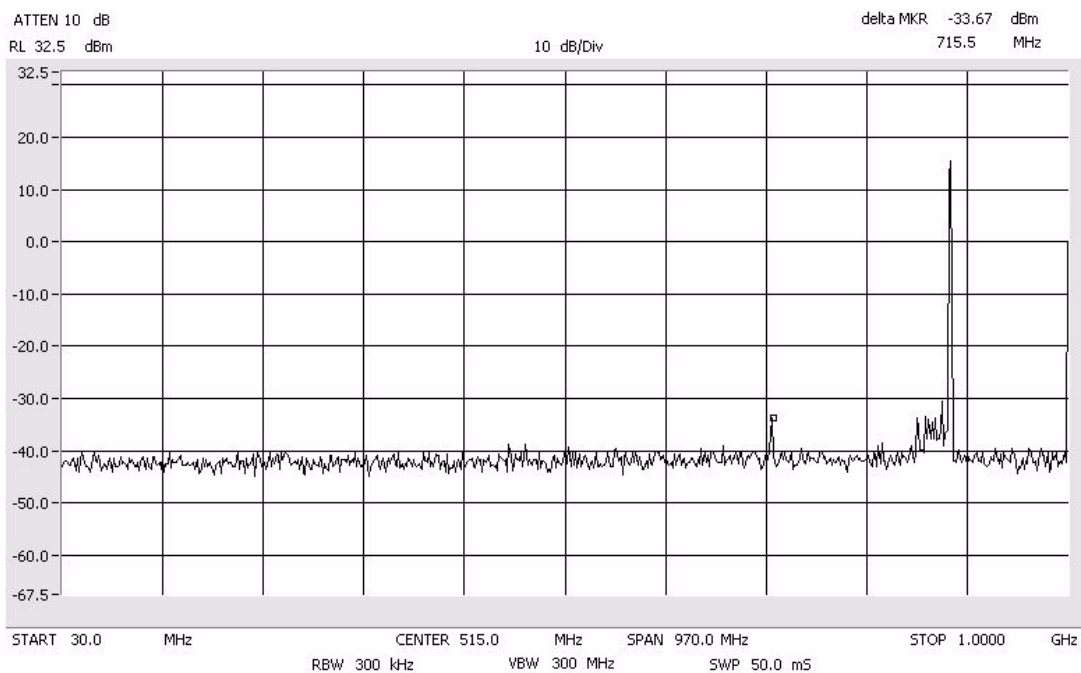


Span: 1 GHz to 10 GHz
RBW/VBW: 1 MHz

**Intermodulation
Close
Lower
FM
Cellular 800 MHz**

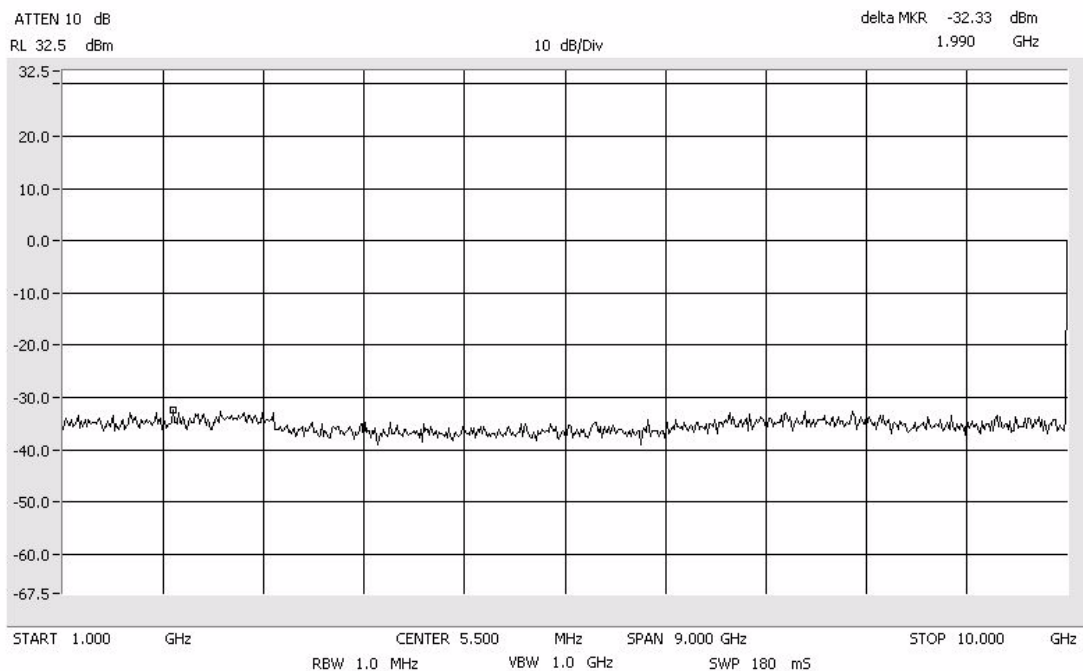


**Intermodulation
Close
Upper
FM
Cellular 800 MHz**



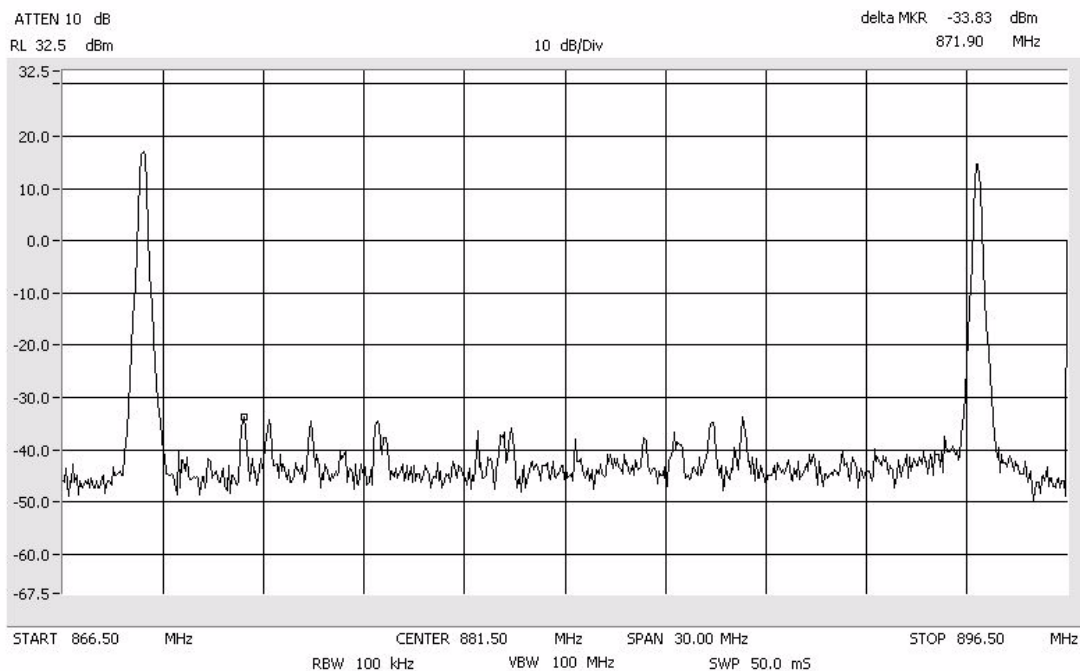
**Intermodulation
Close
Upper
FM
Cellular 800 MHz**

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



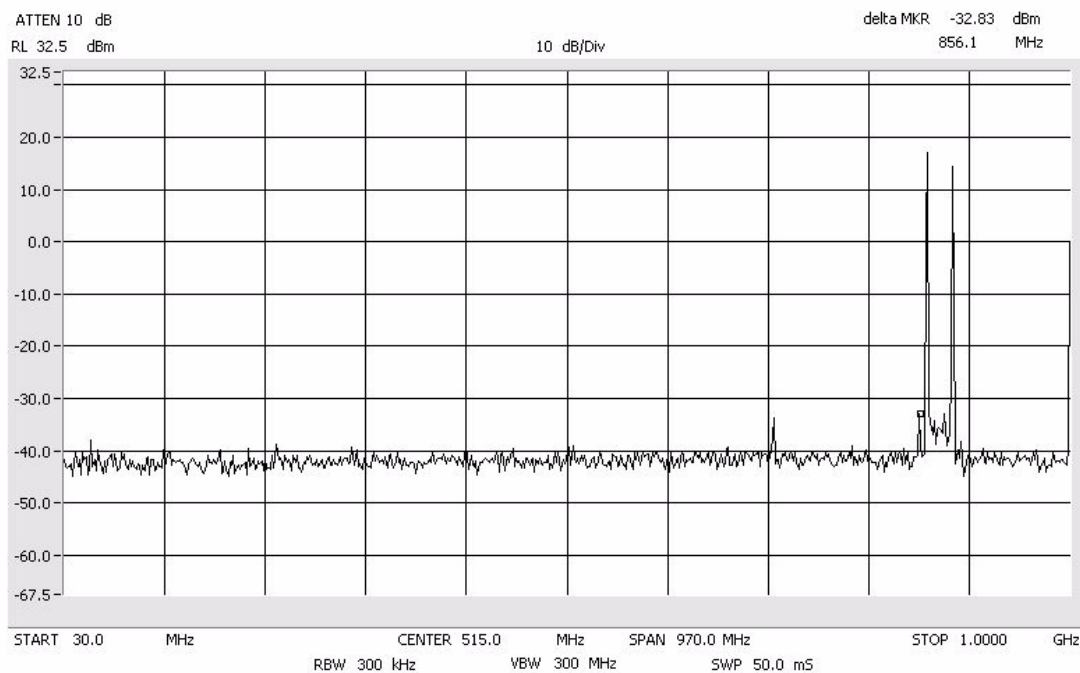
Span: 1 GHz to 10 GHz
RBW/VBW: 1 MHz

**Intermodulation
Close
Upper
FM
Cellular 800 MHz**



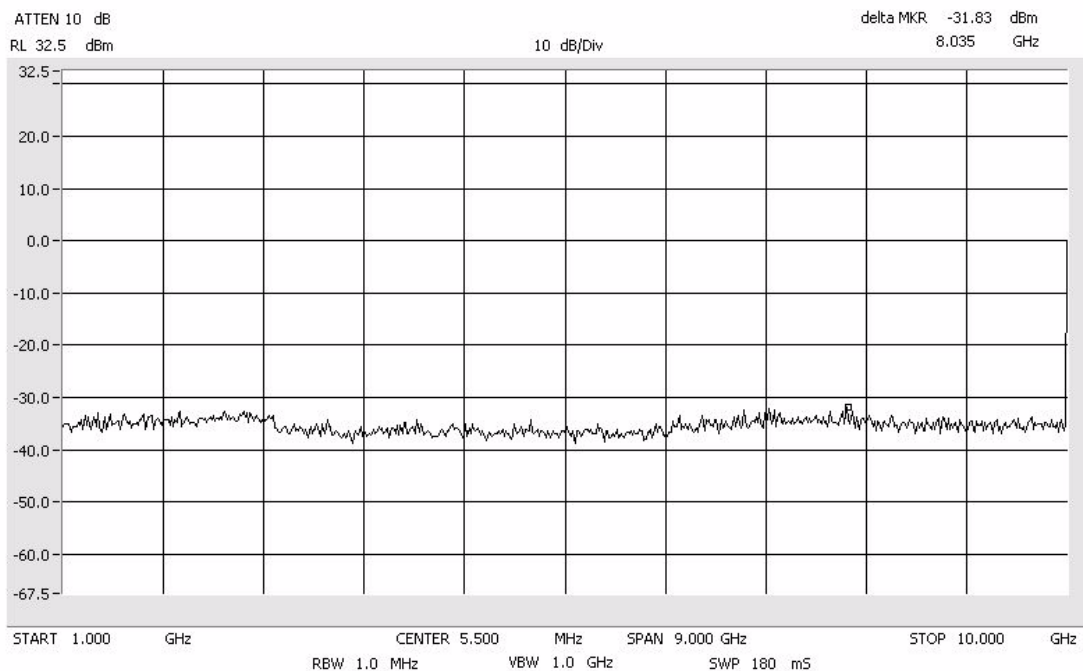
Center: 881.5 MHz
Span: 30 MHz
RBW/VBW: 100 kHz

Intermodulation Apart FM Cellular 800 MHz



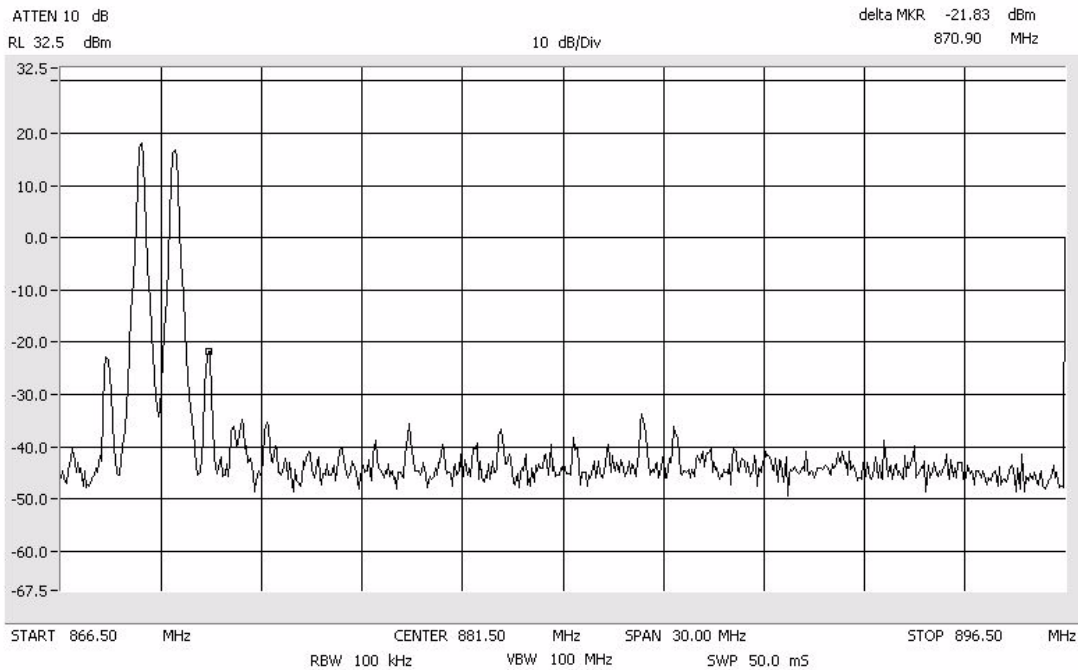
Intermodulation Apart FM Cellular 800 MHz

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



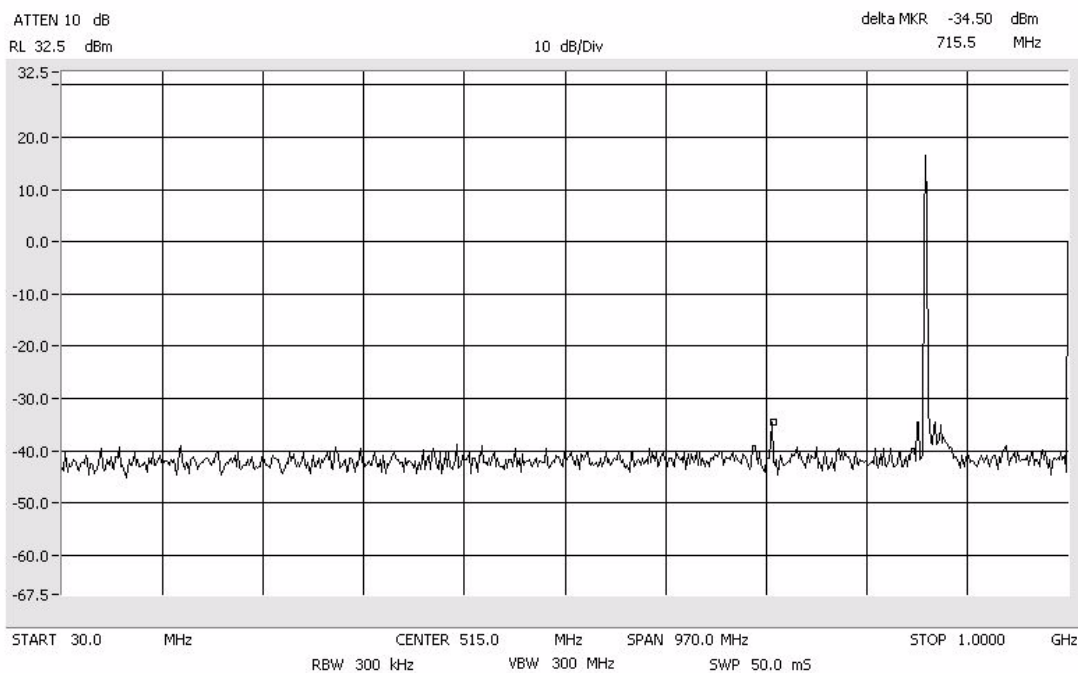
Span: 1 GHz to 10 GHz
RBW/VBW: 1 MHz

**Intermodulation
Apart
FM
Cellular 800 MHz**



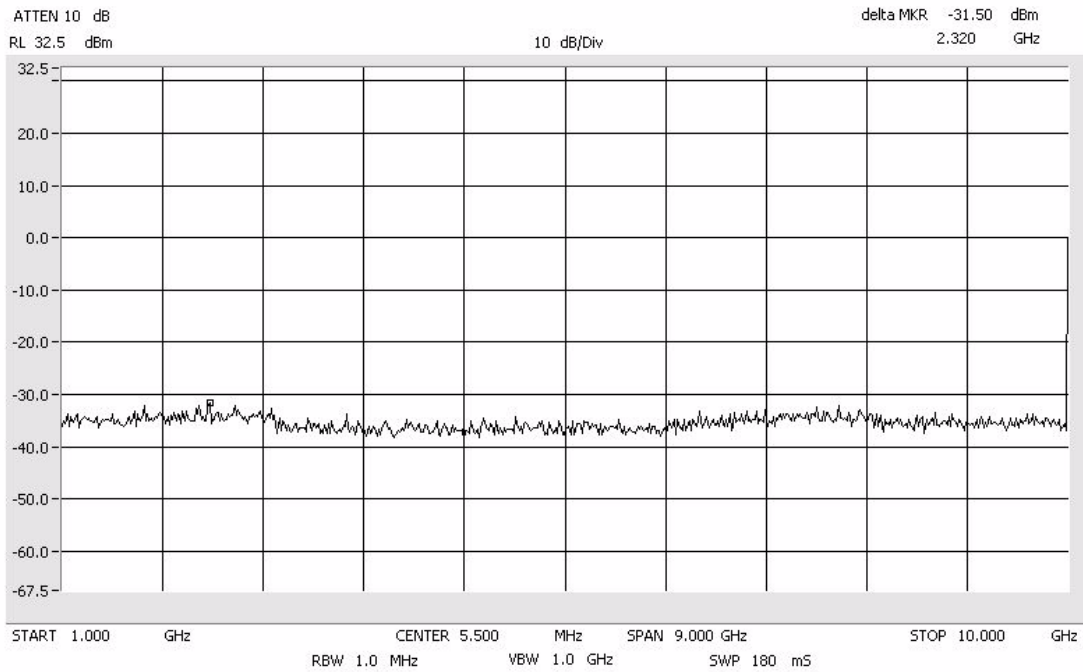
Center: 881.5 MHz
Span: 30 MHz
RBW/VBW: 100 kHz

**Intermodulation
Close
Lower
TDMA
Cellular 800 MHz**



**Intermodulation
Close
Lower
TDMA
Cellular 800 MHz**

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



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

**Intermodulation
Close
Lower
TDMA
Cellular 800 MHz**