

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

Manufacturer:	ADC Telecommunications
Name of Equipment:	<u>FlexWave™ Prism - Cellular</u>
Model Number(s):	FP3-000000000000111 and FWP-B410000MOD
Manufacturer's Address:	<u>P.O. Box 1101</u> Minneapolis, MN 55440-1101
Test Report Number:	MN081106_Cellular
Test Date(s):	<u>5 November, 2008 (ETL)</u> <u>13, 31 October, 2008 (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: 6 November, 2008

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 1187 Park Place Shakopee, MN 55379 Phone: (952) 403-8340

Mark F. Mesha

Mark F. Miska Compliance Engineer



EMC Emission – TEST REPORT

Test Report File Number: <u>MN081106_Cellular</u> Date of Issue: <u>6 November</u>, <u>2008</u>

Model Number(s):	FP3-0000000000000111 and FWP-B410000MOD			
Product Name:	<u>FlexWave™ Prism - Cellular</u>			
Product Type:	Repeater			
Applicant:	ADC Telecommunications			
Manufacturer:	ADC Telecommunications			
License Holder:	ADC Telecommunications			
Address:	<u>P.O. Box 1101</u> Minneapolis, MN 55440-1101			
Test Result:	■ Positive			
Test Project Number: Reference(s)	<u>3163125MIN-001</u>			

Total pages including Appendices: <u>59</u>



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2.0 **REVISION DESCRIPTION**

Rev	Total Pages	Date	Description
Α	59	6 November, 2008	Original Release

3.0 DOCUMENTATION

3.1 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
- [□] IC RSS-131 Issue 2

Environmental Conditions in the lab:

ADC	<u>ETL</u>
Temperature: 25° C	15-35° C
Relative Humidity: 48%	30-60%
Atmospheric Pressure: 98.2 kPa	86-106 kPa

Power Supply Utilized:

Power Supply System

: 120 VAC, Single Phase

3.2 Test Operation Mode

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

3.3 Configuration of the Device Under Test:

Normal Operation - Cellular - 869 to 894 MHz

3.4 Product Options:

None

3.5 EUT Specifications and Requirements:

Length: 10.0" Width: 12.0" Height: 40.0" Weight: 150 pounds

3.6 Cables:

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

3.7 Power Requirements:

Voltage: 120 VAC Amps: 5.8 A

3.8 Typical Installation and/or Operating Environment:

Outdoor/Indoor. System is typically employed as an outdoor repeater.

3.9 Other Special Requirements:

None

3.10 EUT Software:

Revision Level: Version V.6 or greater Description: Internet Explorer

3.11 EUT System Components

Description	Model #	Serial #	FCC ID #
Prism Chassis	FP3-000000000000111	None	
Cellular 20 Watt Module	FWP-B410000MOD		

3.12 Support Equipment

Description	Manufacturer	Model #	FCC ID #
Power Meter	HP	EPM-441A	
Signal Generator	Agilent	E4438C	
Attenuator	Aeroflex	86-30-12	

3.13 Deviations from Standard:

Modifications required to pass:

^D As indicated on the data sheet(s)

None

Test Specification Deviations; Additions to or Exclusions from:

- ^D As indicated in the Test Plan
- None

3.14 General Remarks:

None.

3.15 Summary:

The requirements according to the technical regulations are

met

^D not Met

The equipment under test does

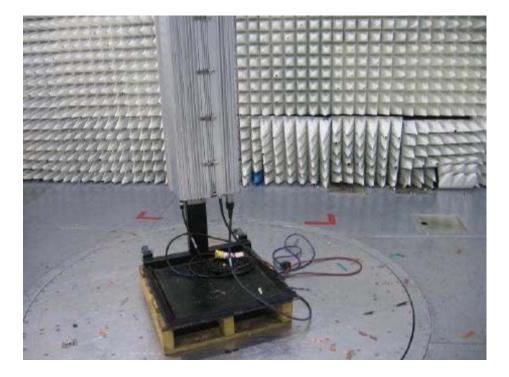
fulfill the general approval requirements mentioned in Section 3.1.

^D not fulfill the general approval requirements mentioned in Section 3.1.

4.0 TEST SET-UP DRAWINGS AND PHOTOS

Table of Contents; Section 1.0

4.1 Test Set-up Photo, Radiated Emissions



4.2 Test Set-up Photo, Radiated Emissions

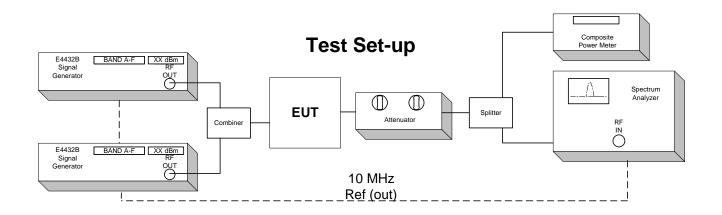


Conducted and Radiated Emission Limits Test

Conducted Output Power Test

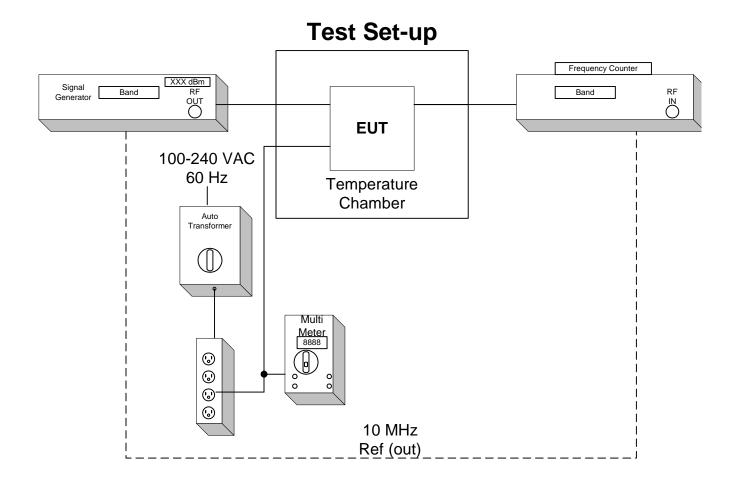
Inter-Modulation Test

Occupied Bandwidth Modulation Test



Frequency Tolerance Test

EUT is specified for outdoor use with temperature range of -30° to +50° C, and was tested with its range.



5.0 TEST RESULTS

5.1.1 22.913 Effective Radiated Power Limits

Test Summary:

- The requirements are: MET NOT MET
- Minimum margin of compliance is 13.2 dB at 881.5 MHz (GSM)

Test Location:

- ^D ETL (Oakdale, MN)
- ADC facility (Shakopee, MN)

Test Distance:

- ^D 3 Meters
- ^D 10 Meters

Conducted measurement

Test Equipment (ADC):

1, 2, 6, 7, 13

Test Limit: 500 Watts or 57 dBm Limit

Test Data:

Conducted Output Power; Section 7.2

Table of Contents; Section 1.0

Test Engineer: Mark F. Miska **Date:** 13 October, 2008

5.1.2 22.355 Frequency Tolerance

Test Summary:

- The requirements are: **MET D** NOT MET
- The fundamental emission stays within the limit.
- Frequency measured over a temperature range of -30 to 50° C and an input voltage range of 100 to 240 VAC.

Test Location:

^D ETL (Oakdale, MN)

ADC facility (Shakopee, MN)

Test Equipment (ADC):

3, 4, 5, 6, 9, 13

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:

Frequency Stability; Section 7.3

Test Engineer: Mark F. Miska **Date:** 13 October, 2008

Table of Contents; Section 1.0

5.1.3 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:

^D ETL (Oakdale, MN)

ADC facility (Shakopee, MN)

Test Equipment (ADC):

1, 2, 6, 7, 13, 15

Test Limit:

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

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

Test Data:

Conducted Emissions; Section 7.1 Intermodulation; Section 7.4 Occupied Bandwidth; Section 7.5 Radiated Emissions; (Appendix B)

Table of Contents; Section 1.0

Test Engineer: Mark F. Miska

 Date:
 13 October, 2008

 Date:
 31 October, 2008

 Date:
 13 October, 2008

6.0 TEST EQUIPMENT

Table of Contents; Section 1.0

Number	Description	Manufacturer	Model	ADC Serial Number	Cal Due	Used
1	Spectrum Analyzer	HP	8563E	MC27690	6-5-09	\boxtimes
2	Power Meter	Rohde&Schwarz	NRVS	MC48545	7-22-09	\boxtimes
3	Multimeter	Fluke	79111	MC34730	6-24-10	\boxtimes
4	Frequency Counter	HP	5347A	MC27548	1-16-09	\boxtimes
5	Temperature Chamber	Thermotron	SM-32C	MC18966	4-8-09	\boxtimes
6	Signal Generator	Agilent	E4437B	967974	1-15-10	\boxtimes
7	Signal Generator	Agilent	E4438C	1013210	2-9-09	\boxtimes
8	Attenuator	Huber Suhner	6810.17.A	N/A	CNR	
9	Variable Auto Transformer	Staco	1520CT	MC44655	CNR	\boxtimes
10	Digital Barometer	Fisher Scientific	02-403	MC50719	10-28-09	\boxtimes
11	Data Acquisition Unit	Fluke	Hydra	MC27549	10-8-08	
12	Attenuator	Aeroflex	49-30-33	N/A	CNR	
13	Attenuator	Aeroflex	86-30-12	N/A	CNR	\boxtimes
14	LNA	Lucix Corp	C020200L 1603	N/A	CNR	
15	Signal Generator	Agilent	E4438C	1036117	11-15-10	\boxtimes

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

APPENDIX A

Conducted Emissions Test Data

Table of Contents; Section 1.0

Test Engineer: Mark F. Miska

7.1 Conducted Emission Limits Test

Table of Contents; Section 1.0 Back to Emission Limits; Section 5.1.3

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 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 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 -25 dBm input to DHU. Industry practice has generally set the output signal power level.

Universal Radio Head (URH): Range: 100 - 240 VAC Tested @: 120 VAC Tested @: 5.8 A

Digital Host Unit (DHU): Range: 21-60 VDC Tested @: 48 VDC Tested @: 3.5 A

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.

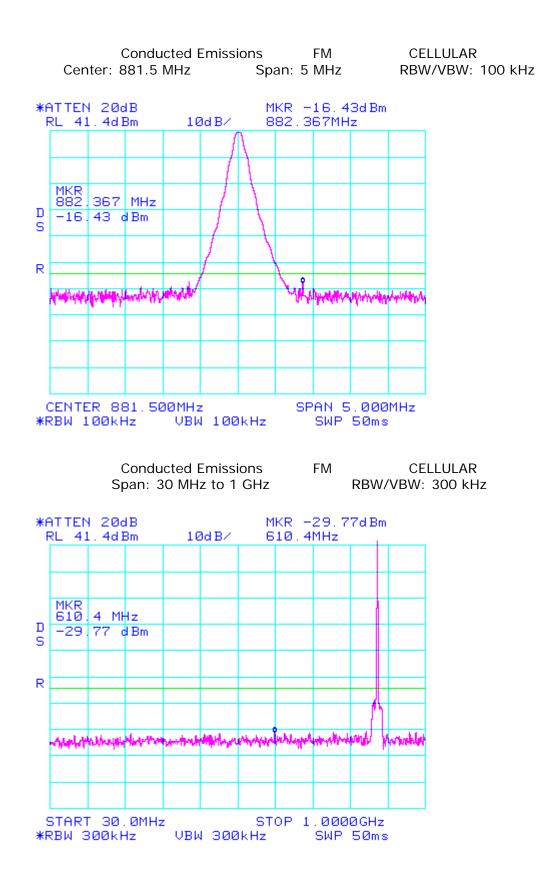
The frequency stability is derived by the BTS, base transceiver station. This product uses internal frequency stability to keep the signal inside our filter bandwidths. This means that the frequency can change, but the frequency that transmits is still at the original frequency. The remote system uses 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.

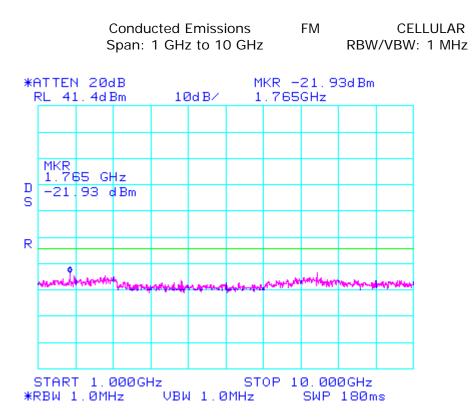
This equipment does not modulate the RF, so there is no modulation limiter. This equipment does not change the modulation of the RF or the occupied bandwidth of any channel. It transports the signal, as is, over an optical link. The RF input is not changed in the RF output.

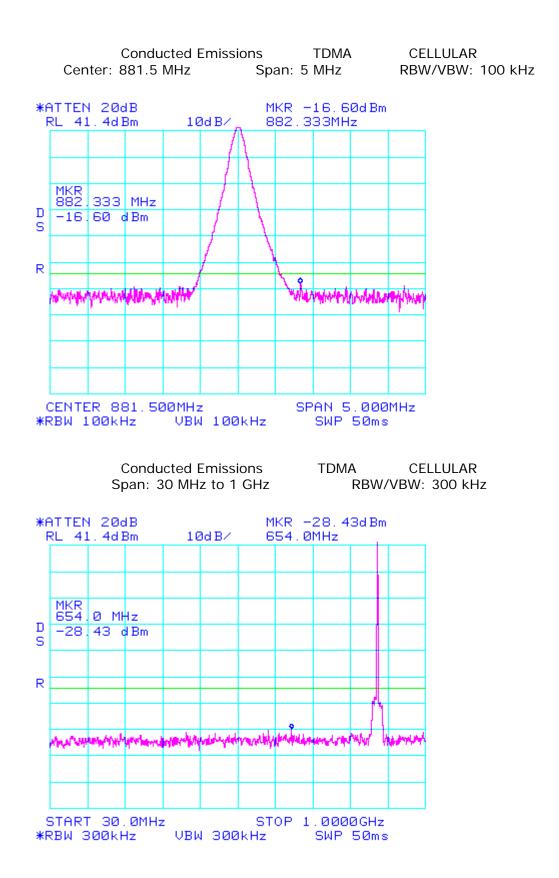
This is a constant gain device, so the setup controls the output. There is an overdrive and overpower limit control that prevents excess power.

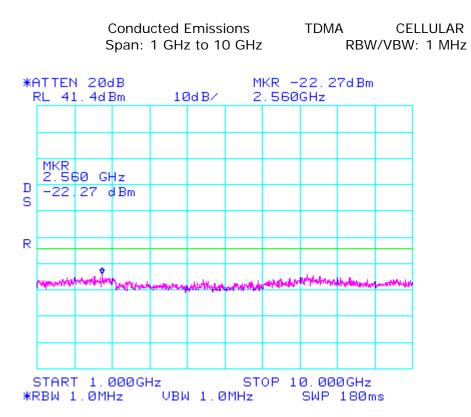
Results: Pass (See plots)

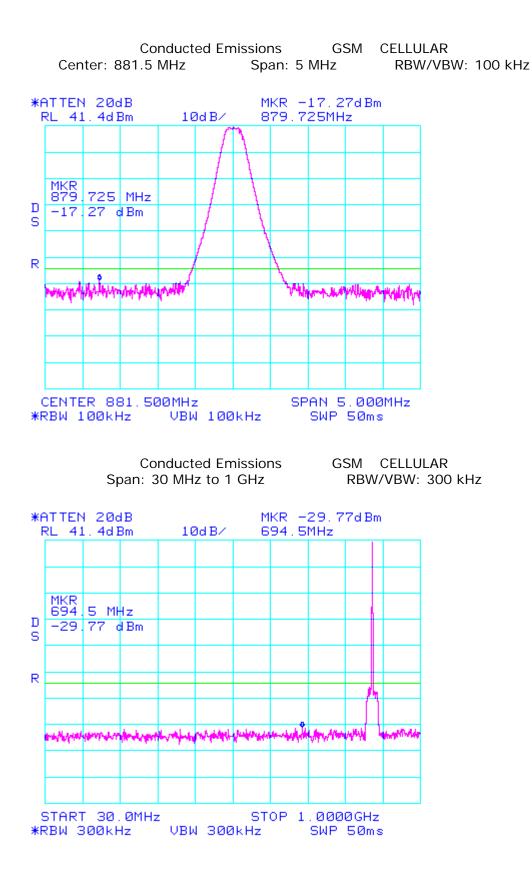


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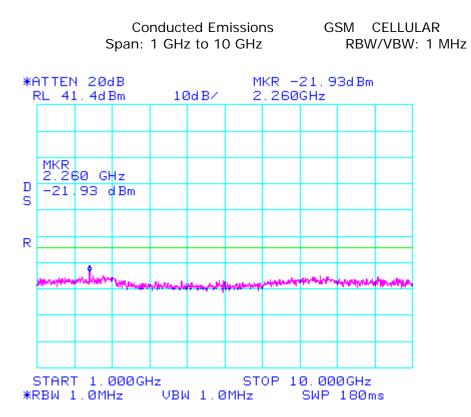


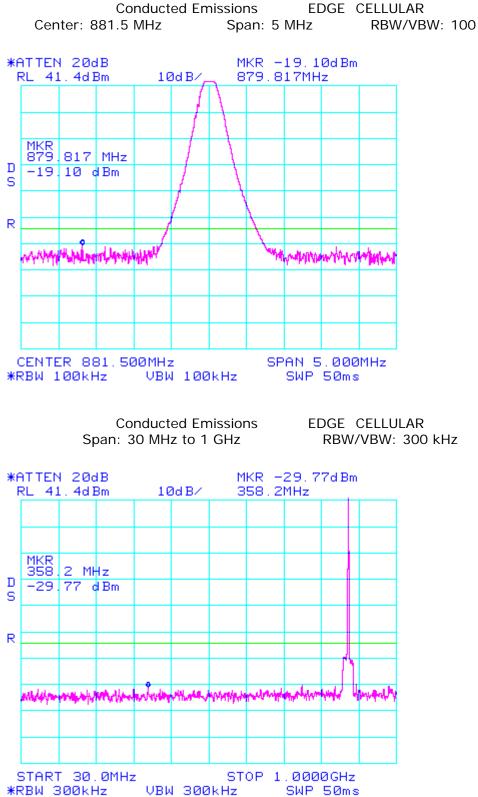




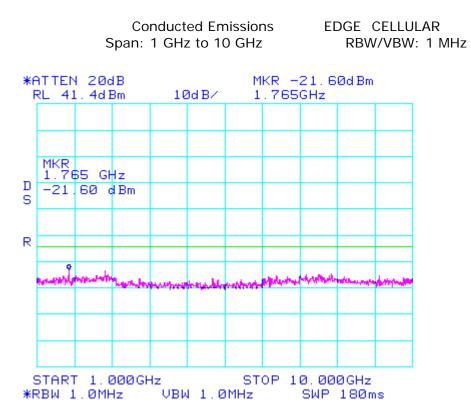


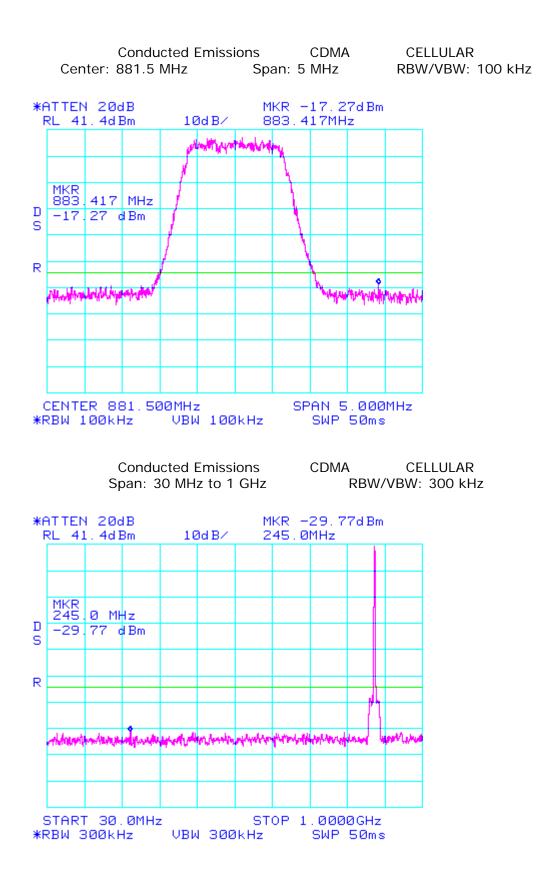
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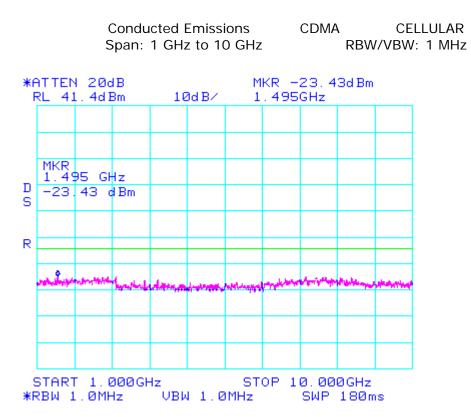


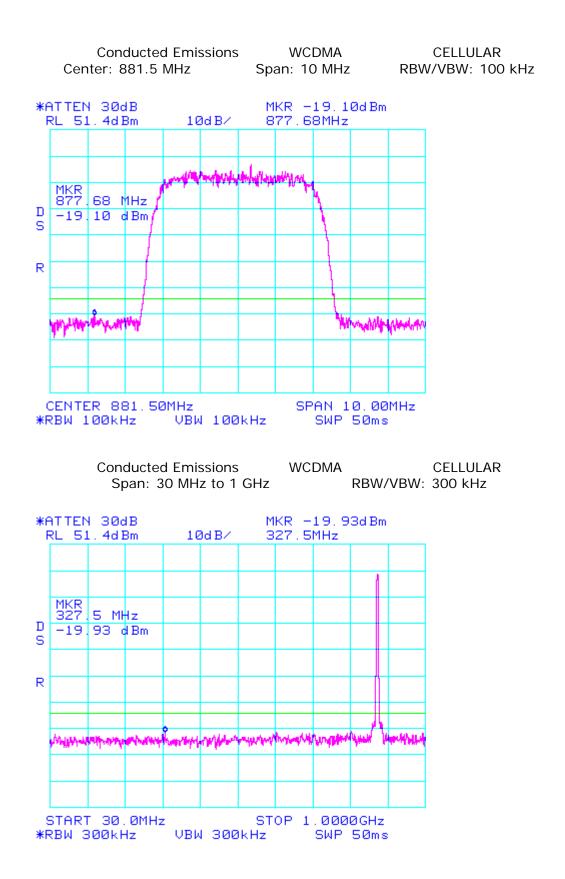


Center: 881.5 MHz Span: 5 MHz RBW/VBW: 100 kHz

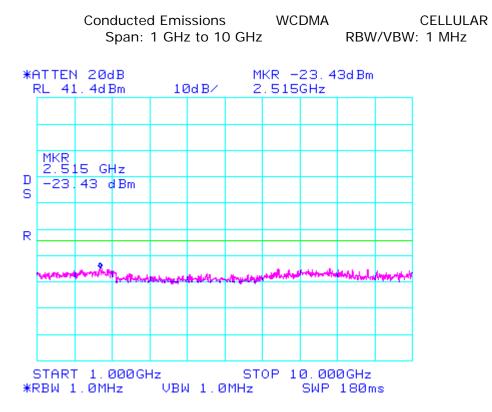


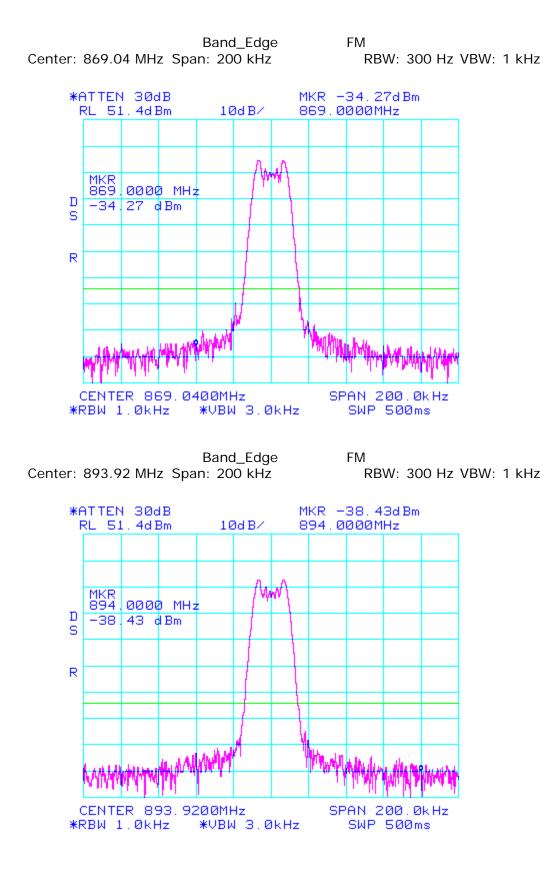


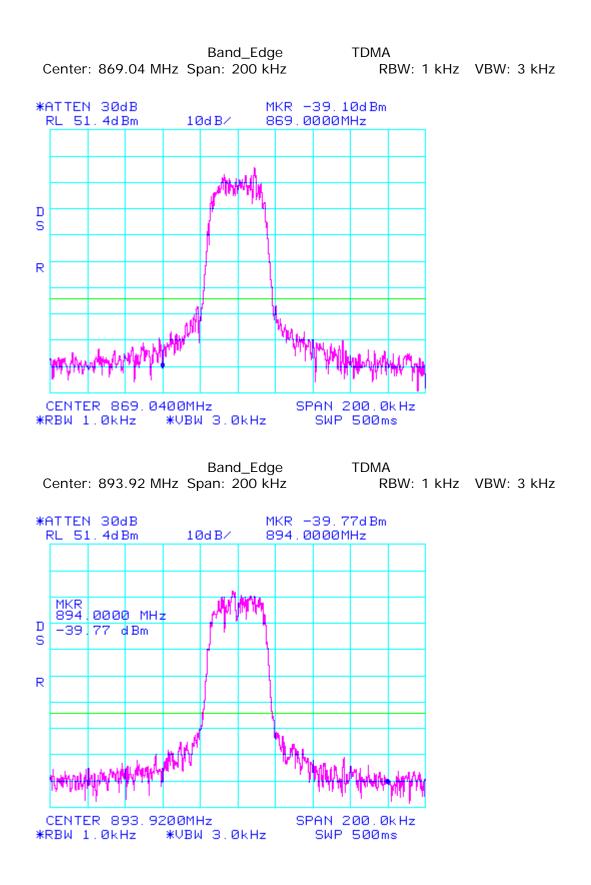


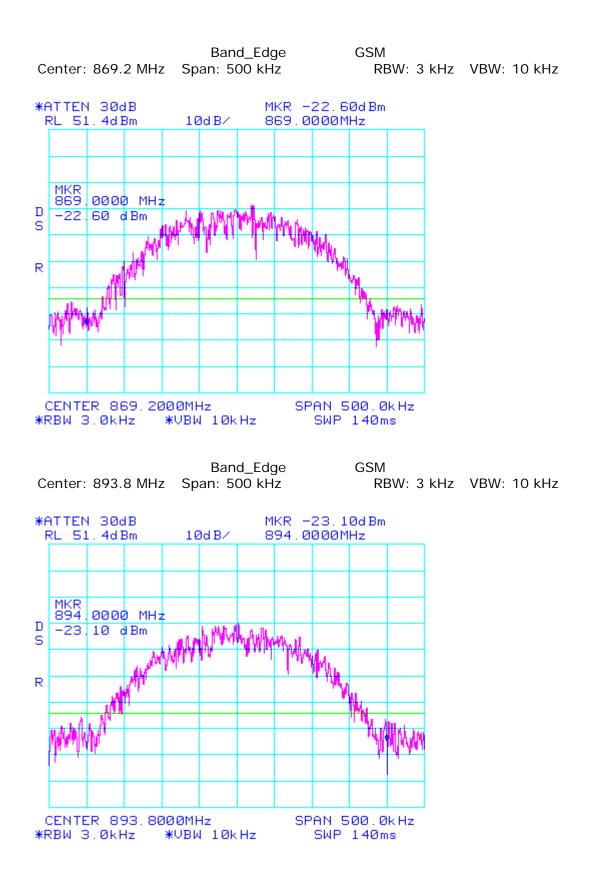


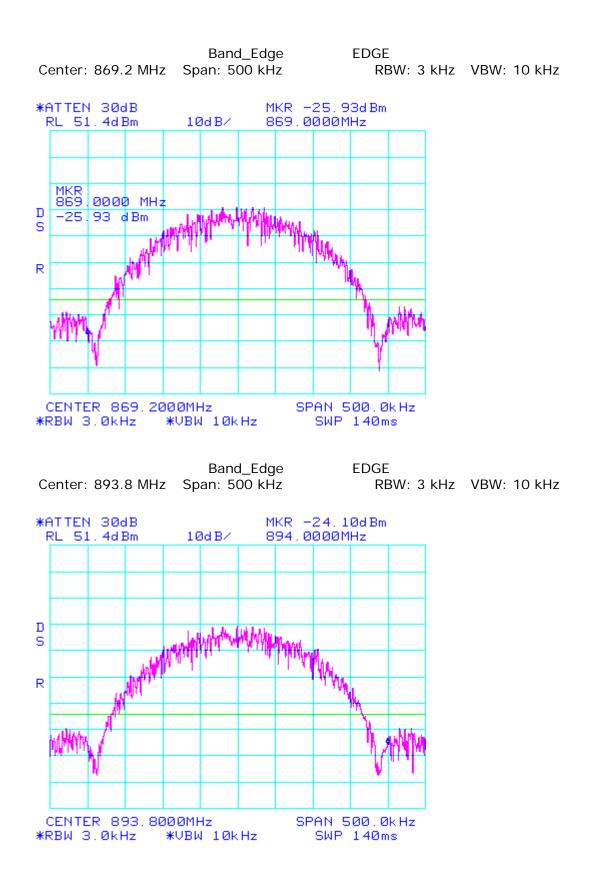
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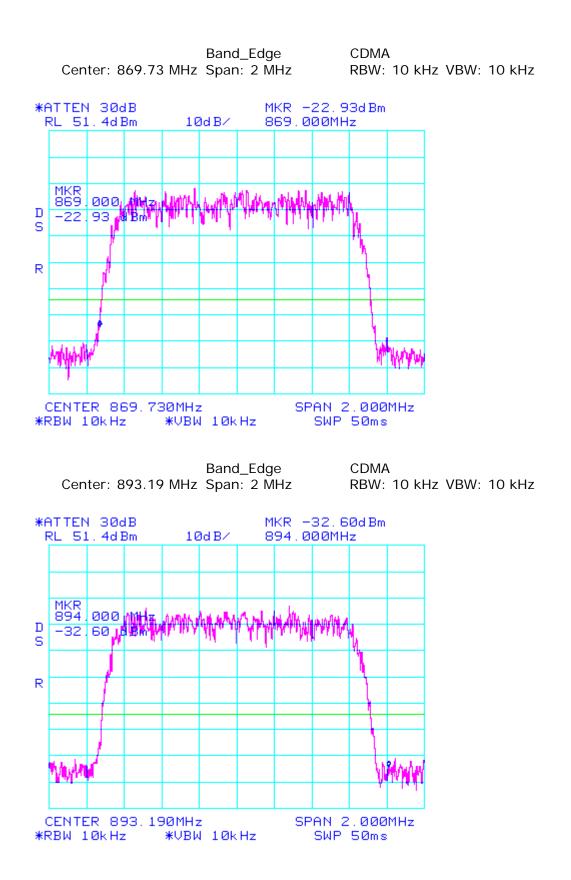


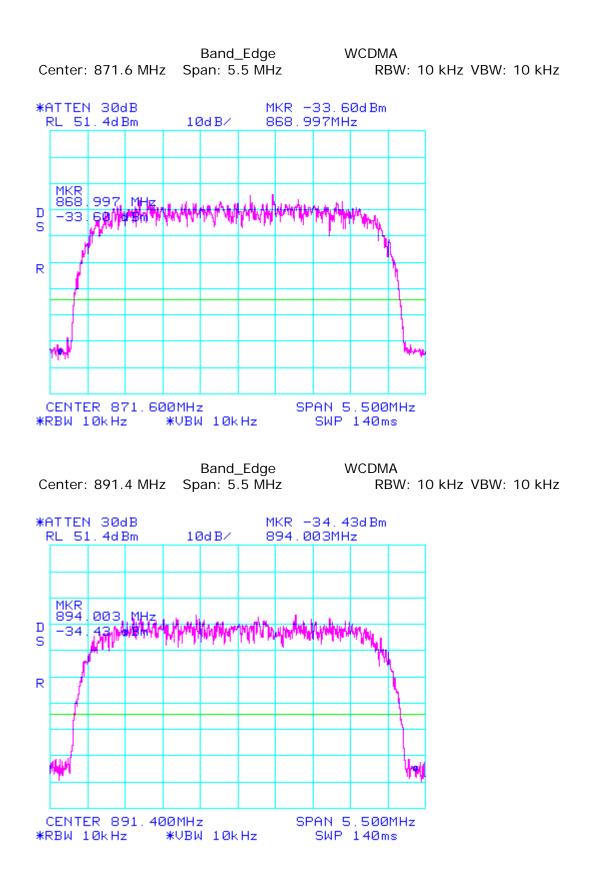






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7.2 Conducted Output Power Test

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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 and W-CDMA signal. 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 31.4 dB to compensate for cable loss and attenuator between the EUT and the power meter.

FM	23.28 Watts
Carrier Frequency	Carrier Output
869.2 MHz	41.76 dBm
881.5 MHz	43.67 dBm
893.8 MHz	42.10 dBm
TDMA	22.96 Watts
Carrier Frequency	Carrier Output
869.2 MHz	41.54 dBm
881.5 MHz	43.61 dBm
893.8 MHz	42.35 dBm
GSM	23.99 Watts
Carrier Frequency	Carrier Output
869.2 MHz	42.10 dBm
881.5 MHz	43.80 dBm
893.8 MHz	42.97 dBm
EDGE	23.77 Watts
Carrier Frequency	Carrier Output
869.2 MHz	42.37 dBm
881.5 MHz	43.76 dBm
893.8 MHz	42.98 dBm
CDMA	23.82 Watts
Carrier Frequency	Carrier Output
869.8 MHz	42.85 dBm
881.5 MHz	43.77 dBm
893.2 MHz	42.56 dBm
W-CDMA	23.33 Watts
Carrier Frequency	Carrier Output
871.6 MHz	42.55 dBm
881.5 MHz	43.68 dBm
891.4 MHz	42.87 dBm

7.3 Frequency Stability Test

Table of Contents; Section 1.0 Back to Frequency Stability; Section 5.1.1

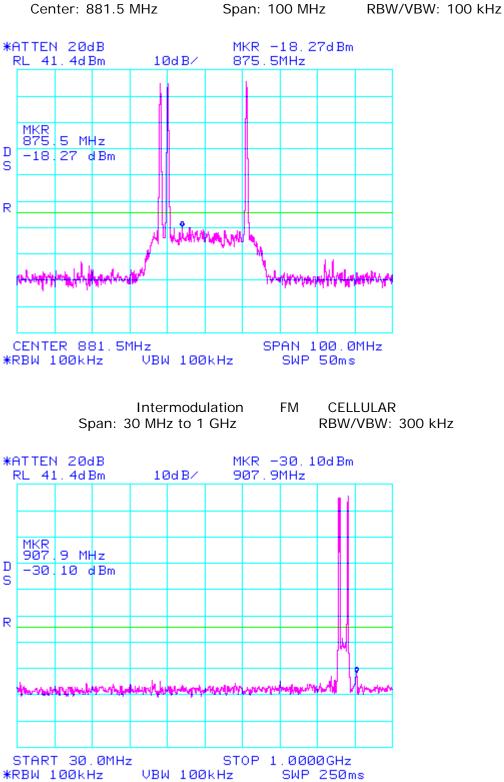
HOST	REMOTE			
Input Voltage	Input Voltage	Carrier Frequency	Measured Frequency	Meets Requirements?
21 VDC	100 VAC	869.200 MHz	869.200 MHz	Yes
48 VDC	170 VAC	869.200 MHz	869.200 MHz	Yes
60 VDC	240 VAC	869.200 MHz	869.200 MHz	Yes
21 VDC	100 VAC	881.500 MHz	881.500 MHz	Yes
48 VDC	170 VAC	881.500 MHz	881.500 MHz	Yes
60 VDC	240 VAC	881.500 MHz	881.500 MHz	Yes
21 VDC	100 VAC	893.800 MHz	893.800 MHz	Yes
48 VDC	170 VAC	893.800 MHz	893.800 MHz	Yes
60 VDC	240 VAC	893.800 MHz	893.800 MHz	Yes
Temperature		Carrier Frequency	Measured Frequency	Meets Requirements?
-30 Deg. C		869.200 MHz	869.200 MHz	Yes
-20 Deg. C		869.200 MHz	869.200 MHz	Yes
-10 Deg. C		869.200 MHz	869.200 MHz	Yes
0 Deg. C		869.200 MHz	869.200 MHz	Yes
10 Deg. C		869.200 MHz	869.200 MHz	Yes
20 Deg. C		869.200 MHz	869.200 MHz	Yes
30 Deg. C		869.200 MHz	869.200 MHz	Yes
40 Deg. C		869.200 MHz	869.200 MHz	Yes
50 Deg. C		869.200 MHz	869.200 MHz	Yes
-30 Deg. C		881.500 MHz	881.500 MHz	Yes
-20 Deg. C		881.500 MHz	881.500 MHz	Yes
-10 Deg. C		881.500 MHz	881.500 MHz	Yes
0 Deg. C		881.500 MHz	881.500 MHz	Yes
10 Deg. C		881.500 MHz	881.500 MHz	Yes
20 Deg. C		881.500 MHz	881.500 MHz	Yes
30 Deg. C		881.500 MHz	881.500 MHz	Yes
40 Deg. C		881.500 MHz	881.500 MHz	Yes
50 Deg. C		881.500 MHz	881.500 MHz	Yes
-30 Deg. C		893.800 MHz	893.800 MHz	Yes
-20 Deg. C		893.800 MHz	893.800 MHz	Yes
-10 Deg. C		893.800 MHz	893.800 MHz	Yes
0 Deg. C		893.800 MHz	893.800 MHz	Yes
10 Deg. C		893.800 MHz	893.800 MHz	Yes
20 Deg. C		893.800 MHz	893.800 MHz	Yes
30 Deg. C		893.800 MHz	893.800 MHz	Yes
40 Deg. C		893.800 MHz	893.800 MHz	Yes
50 Deg. C		893.800 MHz	893.800 MHz	Yes

7.4 Intermodulation Test

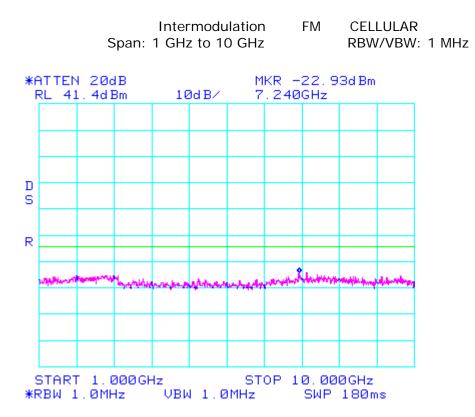
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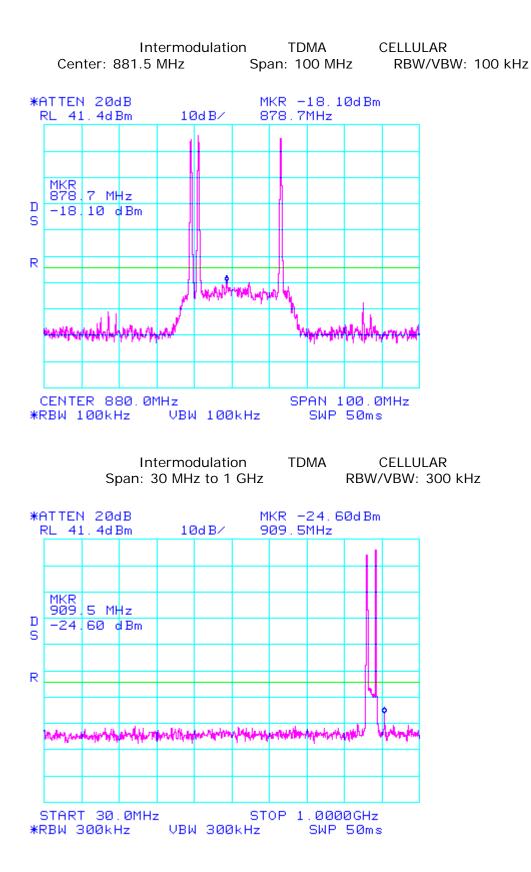
The inter-modulation products test was performed for the EUT. One test was performed with the modulation type. 2 signals input to the EUT at lower end channels, and 1 signal input to the EUT at upper end channel. The modulation types tested were FM, TDMA, GSM, EDGE, CDMA and W-CDMA. An investigation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

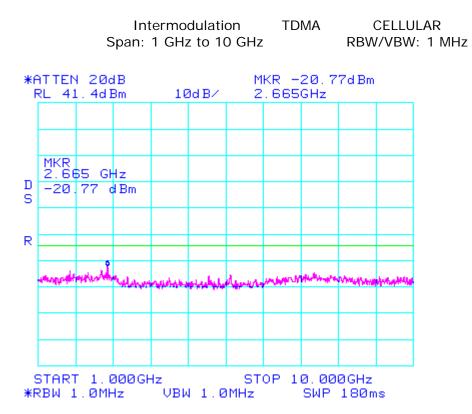
Results: (See Plots)

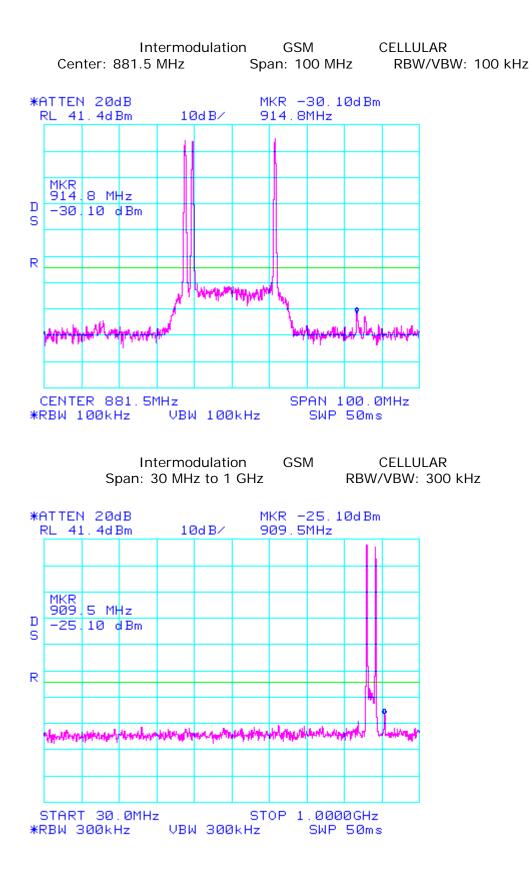


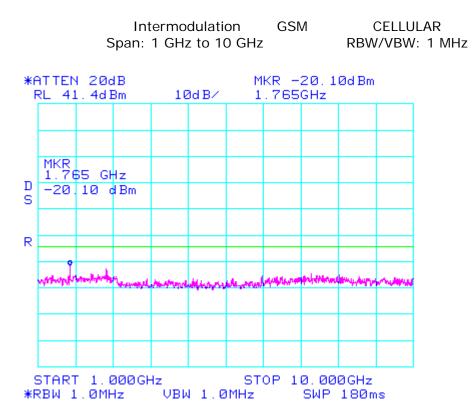
Intermodulation FM CELLULAR Center: 881.5 MHz Span: 100 MHz RBW/VBW: 100 kHz

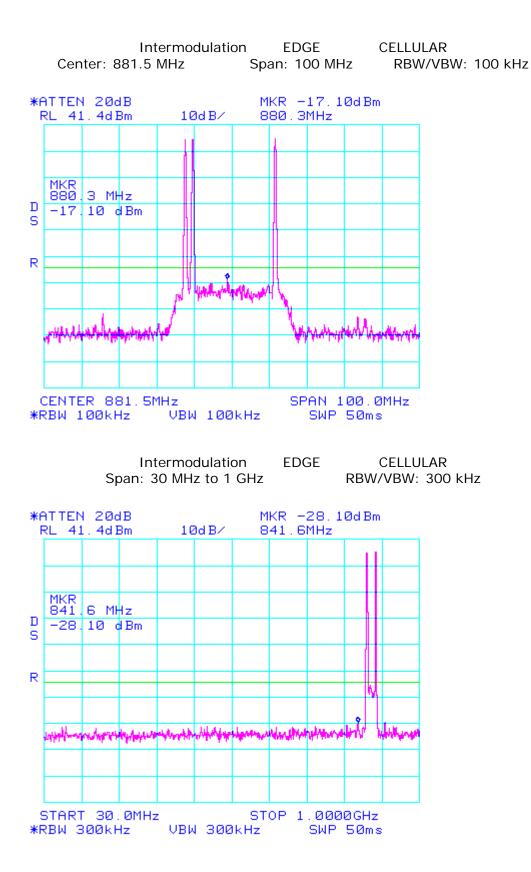


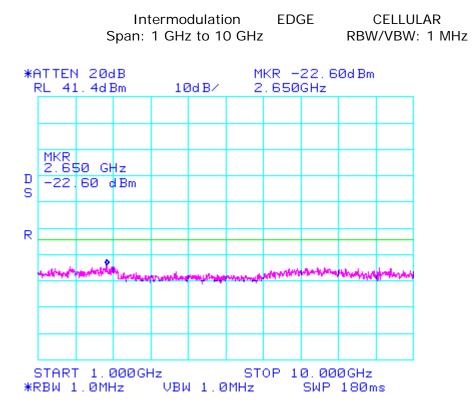


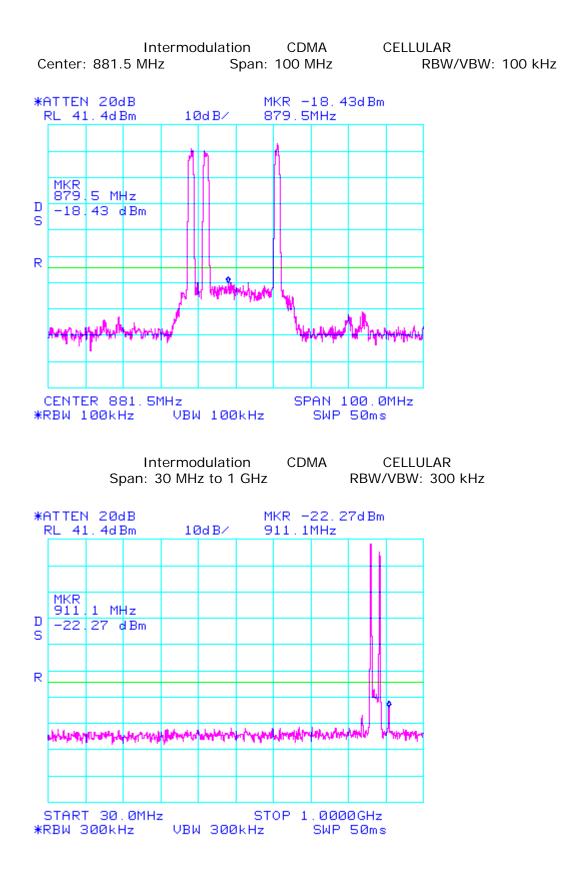


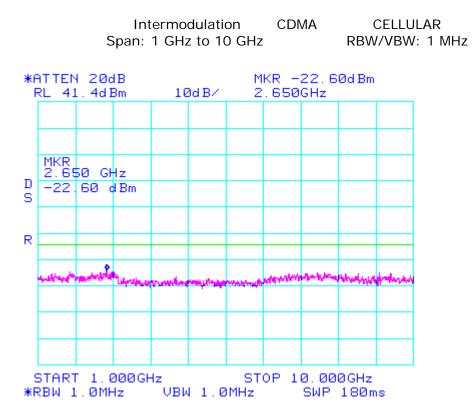


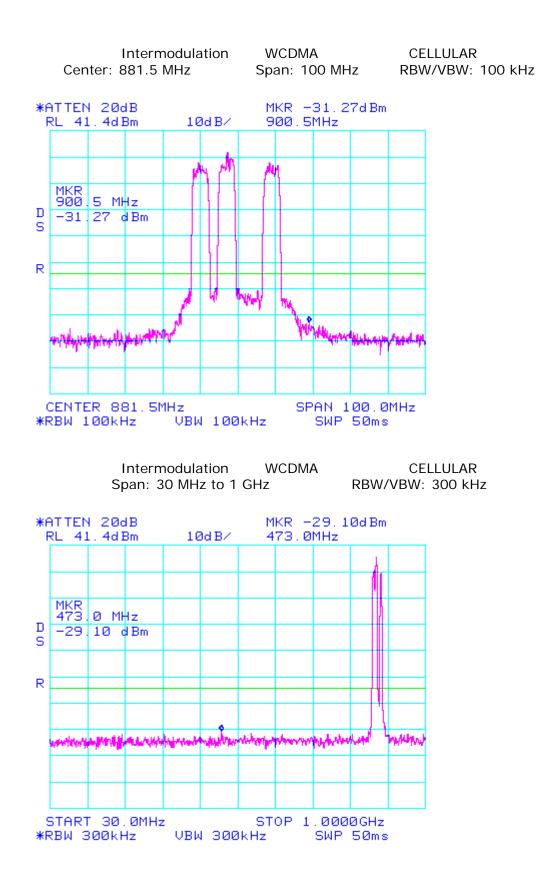


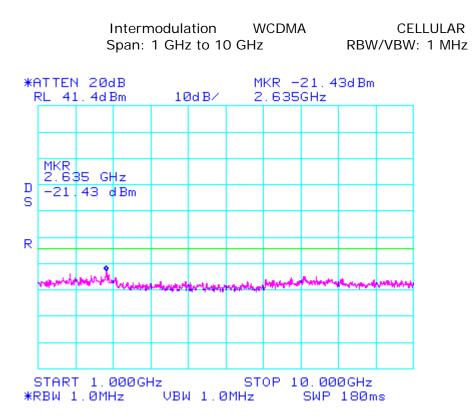












7.5 Occupied Bandwidth Modulation Test

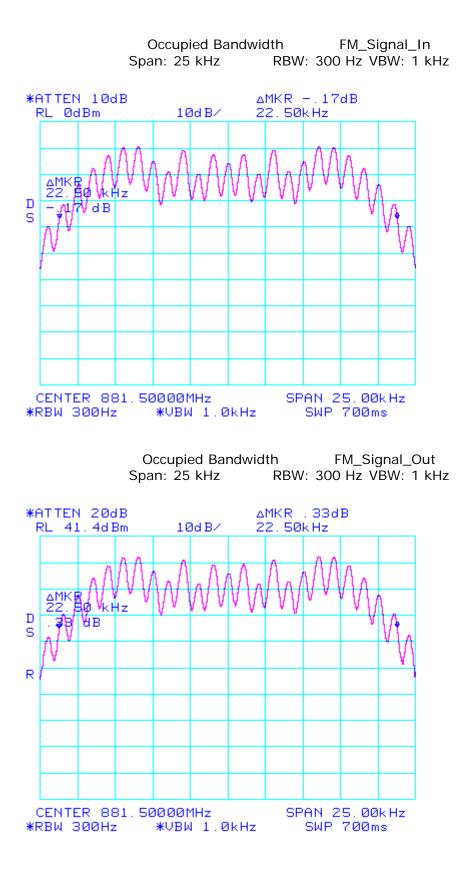
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An output Occupied Bandwidth test was done with modulation types: FM, TDMA, GSM, EDGE, CDMA and W-CDMA. The purpose was to determine the amount of occupied bandwidth for the different types of modulation schemes produced by the EUT. The following plots show output signals.

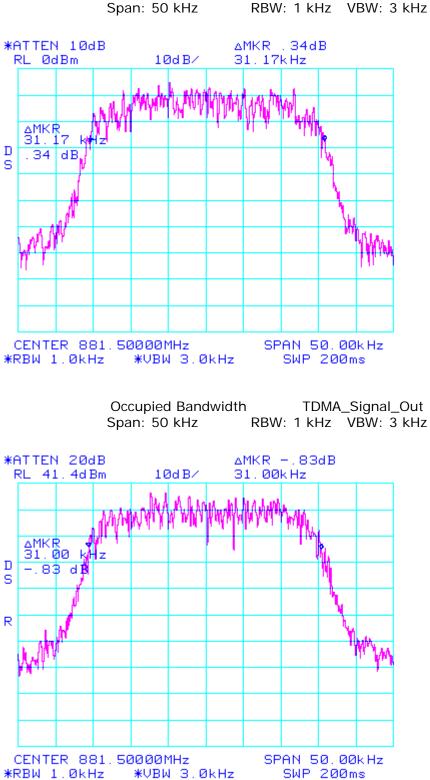
The resolution bandwidth is reduced to 1% of the estimated emission bandwidth and the video bandwidth is set to 3 times the resolution bandwidth. The markers are moved to the -20 dB points (from the previously established center frequency level) on either side of center frequency.

Results:

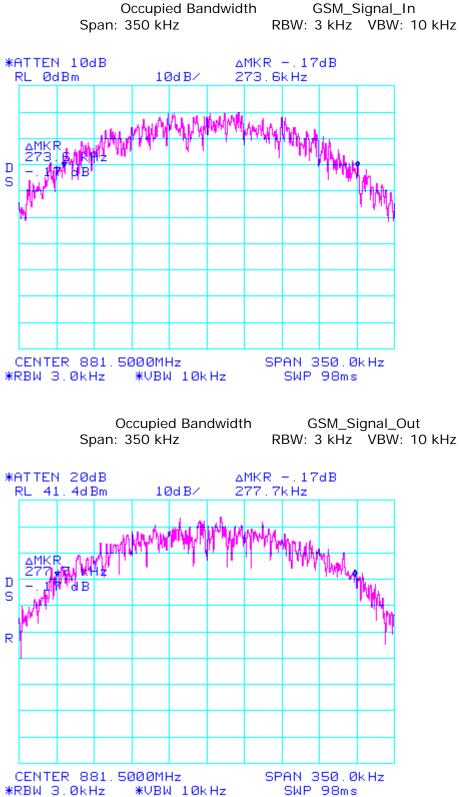
Pass (see plots)

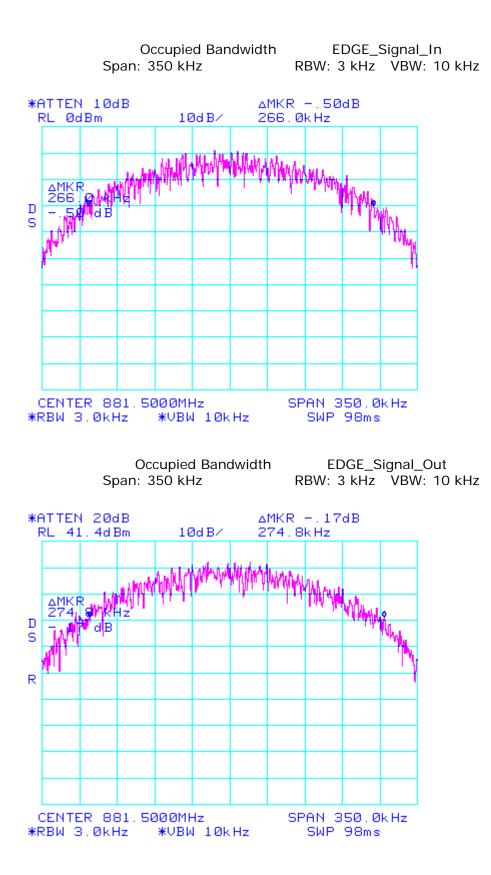


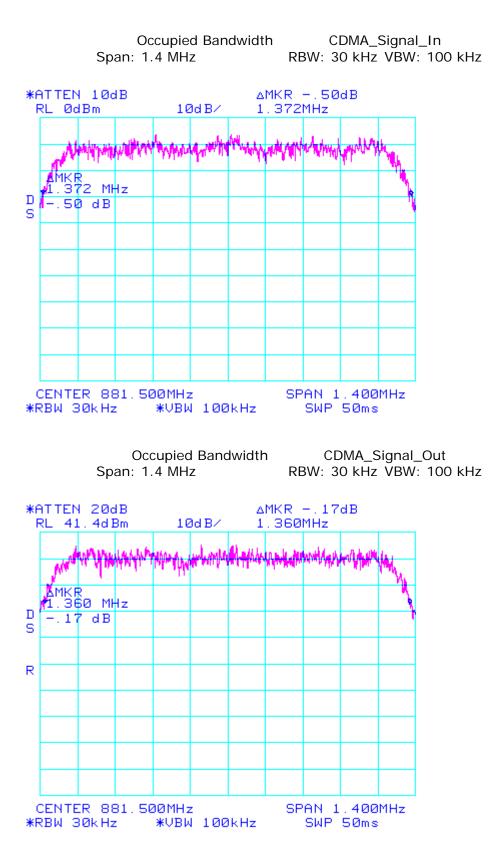
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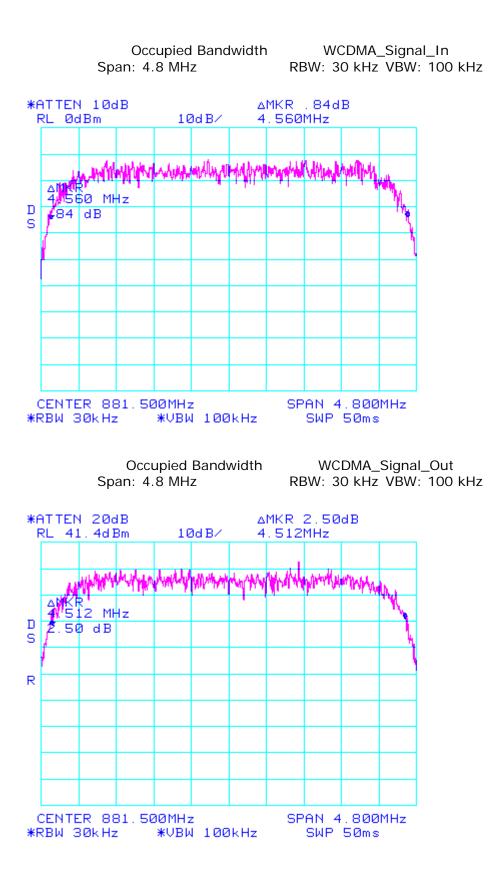
Occupied Bandwidth TDMA_Signal_In Span: 50 kHz RBW: 1 kHz VBW: 3 kHz







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APPENDIX B

Measurement Protocol

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Measurement Protocol

Environmental conditions of the lab, (ADC)

Temperature: 21 - 26° C Relative Humidity: 21 - 24 % Atmospheric Pressure: 97.8 - 100.0 kPa

Test Methodology:

Emission testing is performed according to the procedures in ANSI C63.4-2003.

Measurement Uncertainty

The test system for conducted emissions is defined as the signal generator(s), the power meter, the spectrum analyzer and the coaxial cable. The equipment comprising the test systems is calibrated prior to testing the EUT.

Justification

The Equipment Under Test (EUT) is configured in a typical user arrangement in accordance with the manufacturer's instructions. A cable is connected to each available port and either terminated with a peripheral into its characteristic impedance or left un-terminated. When appropriate, the cables are manually manipulated with respect to each other to obtain maximum emissions from the unit.

Radiated Emissions

The final level, in dBuV/m, equals the reading from the spectrum analyzer (Level dBuV), adding the antenna correction factor and cable loss factor (Factor dB) to it, and subtracting the preamp gain (and duty cycle correction factor, if applicable). This result then has the limit subtracted from it to provide the Delta, which gives the tabular data as shown in the data sheets in Appendix B.

Example: FREQ (MHz)	LEVEL (dBuV)	CABLE/ANT/PREAMP FINAL (dB) (dB/m) (dB) (dBuV/m)	POL/HGT/AZ (m) (deg)	DELTA1
60.80	42.5Qp +	1.2 + 10.9 - 25.5 = 29.1	V 1.0 0.0	-10.9

Substitution Method

A cabinet (or enclosure) radiated emission scan was also made, at Intertek, with the EUT's antenna replaced with a termination to demonstrate case radiation compliance to the -13 dBm requirement. Radiated emissions from the EUT are measured in the frequency range of 30 to 20,000 MHz using a spectrum analyzer and appropriate broadband linearly polarized antennas. Table top equipment is placed on a 1.0 X 1.5 meter non-conducting table 80 centimeters above the ground plane. Floor standing equipment is place directly on the turntable/ground plane. Interface cable that are closer than 40 centimeters to the ground plane are bundled in the center in a serpentine fashion so they are at least 40 centimeters from the ground plane. Cables to simulators/testers (if used in this test) are routed through the center of the table and to a screen room located outside the test area. The antenna is positioned 3 meters horizontally from the EUT. To locate maximum emissions from the test sample the antenna is varied in height from 1 to 4 meters, measurement scans are made with both horizontal and vertical antenna polarizations and the EUT are rotated 360 degrees. The field strength levels were measured per ANSI C63.4. The EUT is then replaced with a tuned dipole antenna (below 1GHz) or horn antenna (above 1 GHz). The substitute antenna was placed in the same polarization as the test antenna. A signal generator was used to generate a signal level that matched the highest level measured from the EUT. The signal generator level minus the cable loss from the signal generator to the substitute antenna plus the substitute antenna gain equals the spurious power level.

Test Equipment

All measurement instrumentation is traceable to the National Institute of Standards and Technology and is calibrated according to internal procedure.

APPENDIX C

Radiated Emissions Test Data

Table of Contents; Section 1.0

Document Name: 3163125MIN-001_Radiated_Emissions_Test_Report_Part_22

Test Engineer: Uri Spector

Date: 5 November, 2008

Test Procedure:

Test measurements were made in accordance with ANSI C63.4-2003, Standard Methods of Measurement of Radio Noise Emissions from Low-Voltage Electrical and Electronics Equipment in the Range of 9 kHz to 40 GHz.

Test Site Location:

The test site is a 3 meter Semi-Anechoic Chamber, constructed by Panashield $^{\rm IM}$ Inc. and located

inside the building at 7250 Hudson Blvd. Suite 100, Oakdale, MN 55128.

Test Site Description:

The 3 meter Semi-Anechoic Chamber is constructed of Panabolt[™] modular RF shielding and self-supported with structural steel designed for the local seismic zone rating. The chamber has the nominal size of 20' wide x 29' long x 18' high. All walls and ceiling of the chamber are treated with FFG-1000 Ferrite Grid absorber which was developed specifically to meet international requirements for EMC anechoic chambers for emissions and immunity measurements. To meet high frequency testing white HY-35 hybrid absorber is mounted on the ferrites in specular regions of the chamber.

The chamber has a 2 meter diameter ANSI test volume area and meets the requirements of ANSI C63.4 (1992), EN55022, and FCC Part 15 standards for testing at a 3 meter path length.

FCC Registration Number: 90706 IC Registration Number: 4359