Nemko Test Report:	1L0486RUS1
Applicant:	Enfora 661 East 18th Street Plano, TX 75074-5601
Equipment Under Test:	Alpine GPRS 919
In Accordance With:	**FCC Part 24, Subpart E** Broadband PCS Subscriber Station
Tested By:	Nemko Dallas Inc. 802 N. Kealy Lewisville, TX 75057-3136
Authorized By:	 Tom Tidwell, RF Group Manager
Date:	10/25/01
Total Number of Pages:	35

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Section 1. Summary of Test Results

Manufacturer: Enfora

Model No.: Alpine GPRS 919

Serial No.: 1

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 24, Subpart E.

☒ 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.
See " Summary of Test Data".

NVLAP®

NVLAP LAB CODE: 100426-0

Summary Of Test Data

NAME OF TEST	PARA. NO.	SPEC.	RESULT
RF Power Output	24.232	100W	Complies
Occupied Bandwidth (GPRS)	24.238	Not Specified	Included for information
Spurious Emissions at Antenna Terminals	24.238(a)	-13 dBm	Complies
Field Strength of Spurious Emissions	24.238(a)	-13 dBm E.I.R.P.	Complies
Frequency Stability	24.235	± 0.05 ppm	Complies

Section 2. General Equipment Specification

Supply Voltage Input:	3.3 - 5 Vdc
Frequency Bands:	☒ Block A : 1850 – 1865 MHz ☒ Block B : 1865 – 1870 MHz ☒ Block C : 1870 – 1885 MHz ☒ Block D : 1885 – 1890 MHz ☒ Block E : 1890 – 1895 MHz ☒ Block F : 1895 – 1910 MHz
Type of Modulation and Designator:	**GPRS** **200K0G7W** ☒
Output Impedance:	50 ohms
RF Output (Rated):	1 Watt

System Description

The GSM communication system, in general, is standardized to operate in multiple bands, primarily, the 900 MHz band which is assigned PGSM, EGSM, RGSM for short, 1800 MHz band which is assigned DCS and the 1900 MHz band which is assigned PCS. Both the GSM and DCS band are used globally for mobile voice communication. The PCS 1900 is used in North, Central and South America. The GSM 900 band is disabled for these markets.

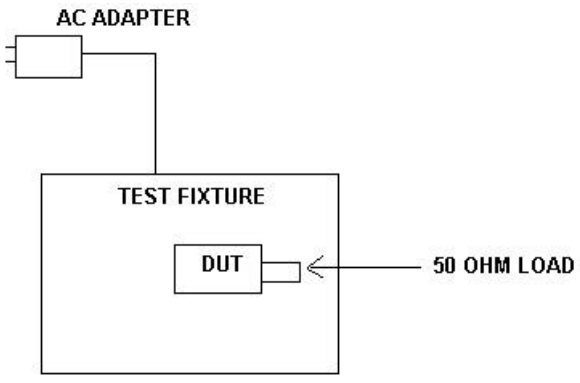
Although the GSM digital voice standard has existed for well over a decade, it wasn't until recently that the demand for wireless data capability has increased. GPRS is a protocol within the GSM standard, which was developed to address the need for data only transmission. Although the GSM voice protocol does support data transmission, it is limited in data rate due to overhead within the voice protocol. What the GRPS allows is a faster data rate that is adaptive as well as being packet based.

The Enabler transceiver design is based on a proprietary chip set that complements size, cost and power consumption. Enabler-G919 is a dual band EGSM 900 MHz and PCS 1900 MHz design in a 1.7" x 2.7" x 0.2" housing. It communicates via an RF antenna port and a multiple pin digital connector. The RF and digital processors are design to operate at 3.8V. The band is selected at the front end via a high power RF Switch. This signal is then prefiltered to remove large out-of-band signals from compressing the LNA. It is then filtered again to prevent the down converter from converting unwanted signal into the IF band. An IF filter is used to set the channel BW to about 200 KHz. This high selectivity IF filter will allow the Enabler to operate through a high dynamic range. The AGC amplifier in conjunction with the DSP chip will automatically adjust the gain to maintain a constant baseband signal. The I&Q demodulator converts the RF signal into 2 baseband signals called Rx I & Q. This prefiltered I&Q signal is sent to the DSP processor where it is digitized for signal processing.

On the transmit section, the post filtered I &Q baseband signal is connected to the I&Q modulator. Using an open loop PLL, the dual band transmit VCO is modulated directly using the charge pump from the modulator section. The advantage of such methodology is an improved carrier and sideband suppression. The modulated RF signal is injected into the power amplifier where it is amplified to its respective level. An RF power detector circuit is used to control the RF level at the antenna port.

The primary function of the Enabler SDK is to allow the module to communicate with external peripherals. It provides pre-voltage regulation, serial interface and mechanical support for the Enabler module. It also allows probing and monitoring of digital signal traffic in and out of the Enabler module.

System Diagram



Section 3. RF Power Output

NAME OF TEST: RF Power Output	PARA. NO.: 2.1046
TESTED BY: David LightTom Tidwell & Debbie Jensen	DATE:10/12/2001

Test Results: Complies.

Measurement Data:

Modulation Type	Channel	Output Power (dBm)	Output Power (W)
GPRS	662	29.6	0.912
GPRS	512	29.4	0.871
GPRS	810	29.3	0.851

Section 4. Occupied Bandwidth

NAME OF TEST: Occupied Bandwidth (GPRS)	PARA. NO.: 2.1047
TESTED BY: David LightTom Tidwell & Debbie Jensen	DATE:10/12/2001

Test Results: Complies.

Test Data: See attached plots.

Test Data – Occupied Bandwidth

Dallas Headquarters:
802 N. Kealy
Lewisville, TX 75057
Tel: (972) 436-9600
Fax: (972) 436-2667

Nemko Dallas, Inc.

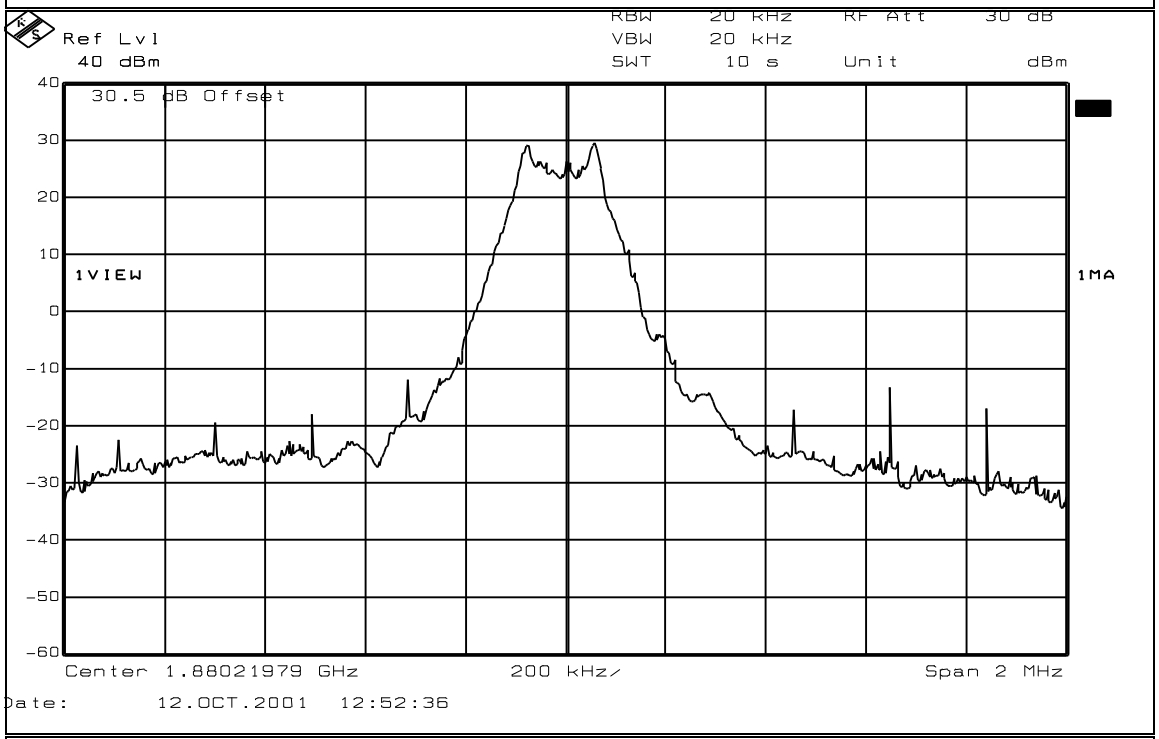
Data Plot **Occupied Bandwidth**

Page 1 of 3 Complete X
Job No.: 1L0486R Date: 10/12/2001 Preliminary
Specification: PART 24 Temperature(°C): 22
Tested By: David Light Relative Humidity(%) 45
E.U.T.: ALPINE GPRS 919
Configuration: TRANSMIT - OPERATING IN TEST FIXTURE
Sample Number: 1
Location: Lab 1 RBW: Refer to plots
Detector Type: Peak VBW: Refer to plots

Test Equipment Used

Antenna:		Directional Coupler:	
Pre-Amp:		Cable #1:	1627
Filter:		Cable #2:	
Receiver:	1036	Cable #3:	
Attenuator #1	1470	Cable #4:	
Attenuator #2:	1478	Mixer:	

Additional equipment used:
Measurement Uncertainty: +/-3.6 dB



Notes: **CHANNEL 662**

Test Data – Occupied Bandwidth

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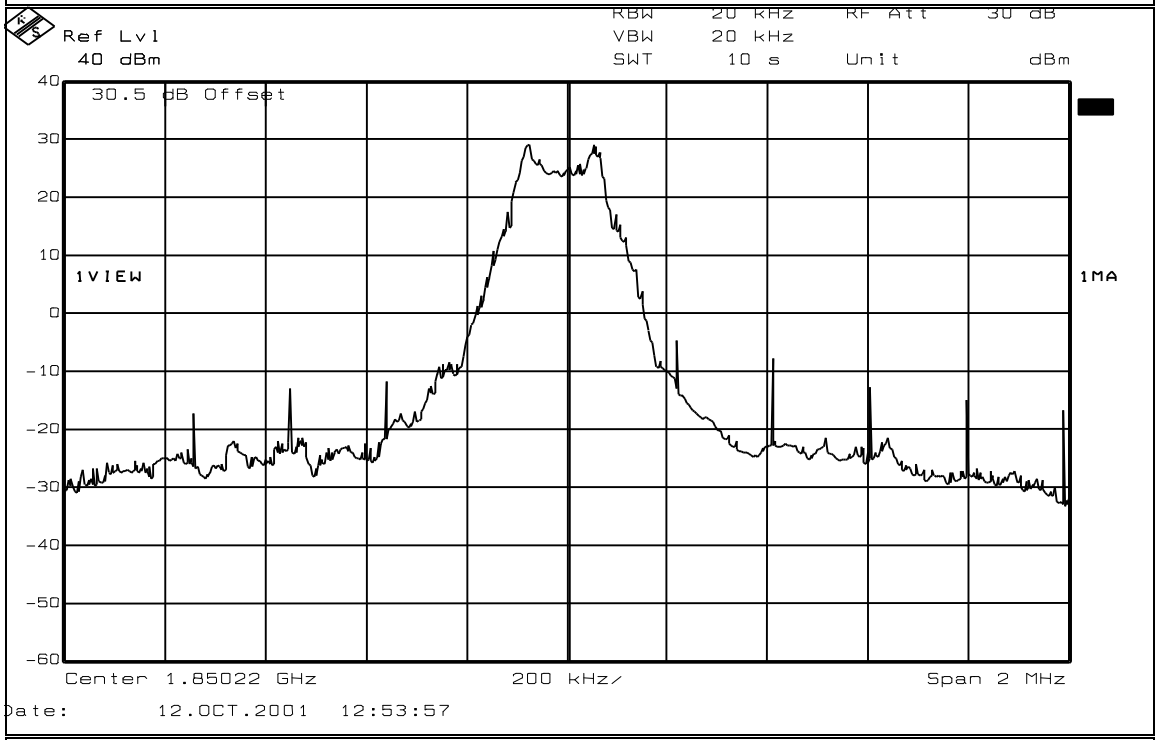
Data Plot **Occupied Bandwidth**

Page 2 of 3

Job No.:	1L0486R	Date:	10/12/2001
Specification:	PART 24	Temperature(°C):	22
Tested By:	David Light	Relative Humidity(%)	45
E.U.T.:	ALPINE GPRS 919		
Configuration:	TRANSMIT - OPERATING IN TEST FIXTURE		



Notes: **Channel 512**

Test Data – Occupied Bandwidth

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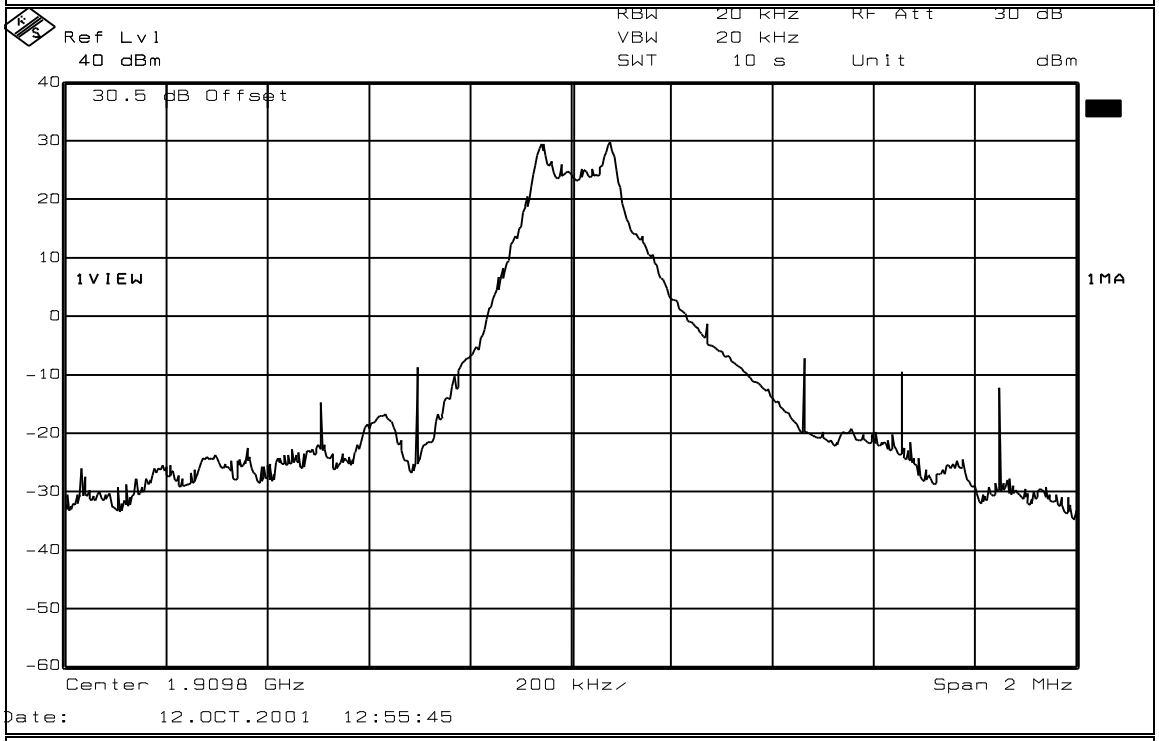
Data Plot **Occupied Bandwidth**

Page 3 of 3

Job No.:	1L0486R	Date:	10/12/2001
Specification:	PART 24	Temperature(°C):	22
Tested By:	David Light	Relative Humidity(%)	45
E.U.T.:	ALPINE GPRS 919		
Configuration:	TRANSMIT - OPERATING IN TEST FIXTURE		



Notes: **Channel 810**

Section 5. Spurious Emissions at Antenna Terminals

NAME OF TEST: Spurious Emissions @ Antenna Terminals	PARA. NO.: 2.1051
TESTED BY: David LightTom Tidwell & Debbie Jensen	DATE:10/12/2001

Test Results: Complies.

Test Data: See attached plots

Test Data – Spurious Emissions at Antenna Terminals

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Lewisville, TX 75057
Tel: (972) 436-9600
Fax: (972) 436-2667

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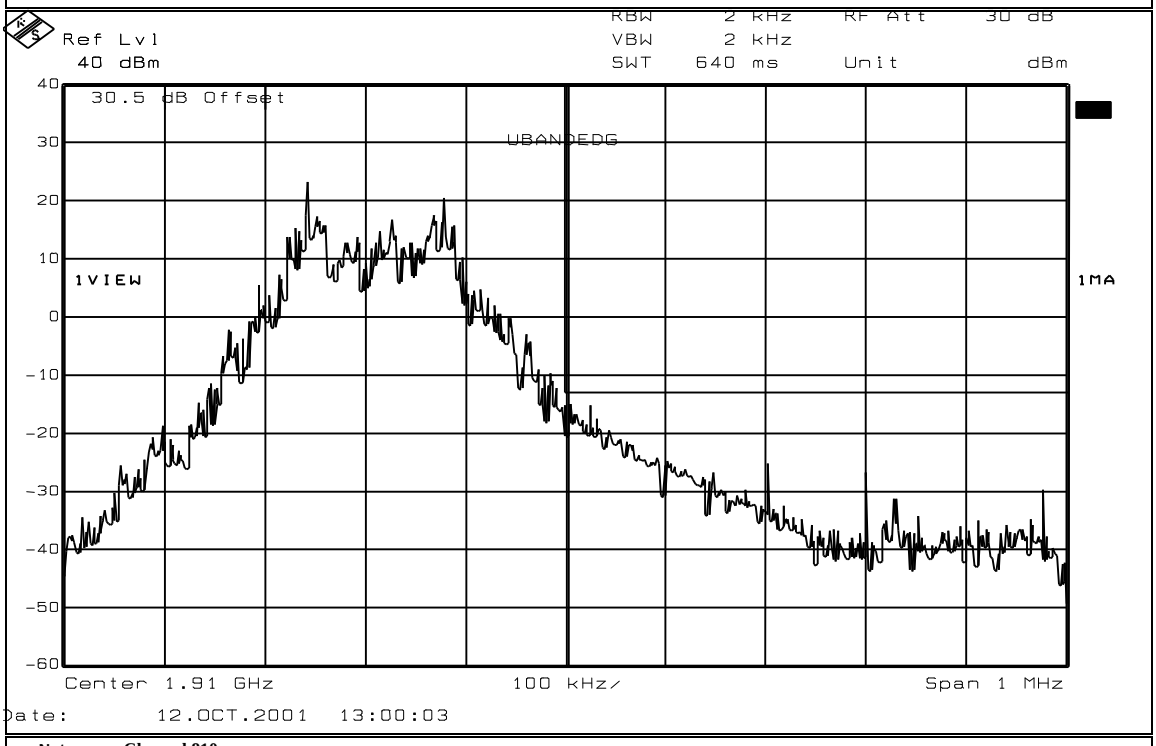
Data Plot **Bandedges**

Page 1 of 2 Complete X
Job No.: 1L0486R Date: 10/12/2001 Preliminary
Specification: PART 24 Temperature(°C): 22
Tested By: David Light Relative Humidity(%) 45
E.U.T.: ALPINE GPRS 919
Configuration: TRANSMIT - OPERATING IN TEST FIXTURE
Sample Number: 1
Location: Lab 1 RBW: Refer to plots
Detector Type: Peak VBW: Refer to plots

Test Equipment Used

Antenna: Directional Coupler:
Pre-Amp: Cable #1: 1627
Filter: Cable #2:
Receiver: 1036 Cable #3:
Attenuator #1 1470 Cable #4:
Attenuator #2: 1478 Mixer:
Additional equipment used:
Measurement Uncertainty: +/-3.6 dB



Notes: **Channel 810**

Test Data – Spurious Emissions at Antenna Terminals

Dallas Headquarters:
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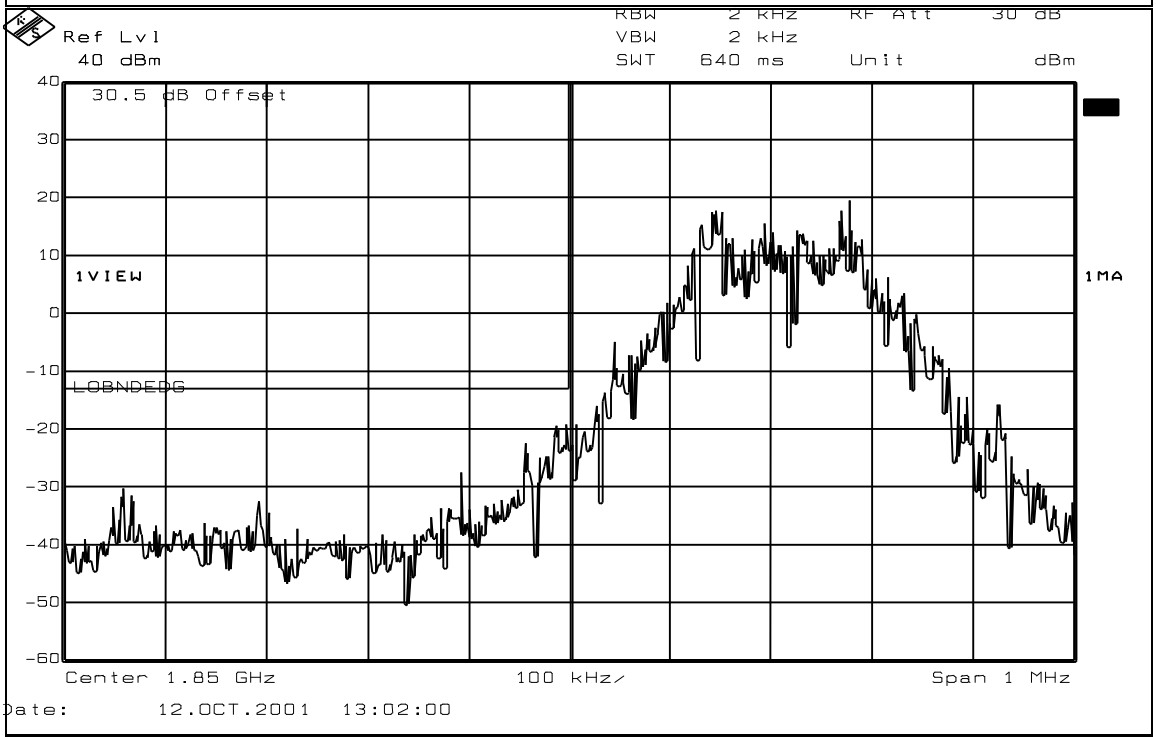
Lewisville, TX 75057
Tel: (972) 436-9600
Fax: (972) 436-2667

Nemko Dallas, Inc.

Data Plot **Bandedges**

Page 2 of 2

Job No.:	1L0486R	Date:	10/12/2001
Specification:	PART 24	Temperature(°C):	22
Tested By:	David Light	Relative Humidity(%)	45
E.U.T.:	ALPINE GPRS 919		
Configuration:	TRANSMIT - OPERATING IN TEST FIXTURE		



Notes:

Test Data – Spurious Emissions at Antenna Terminals

Dallas Headquarters:
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Data Plot **Spurious Emissions at Antenna Terminals**

Page 1 of 6 Complete X

Job No.: 1L0486R Date: 10/12/2001 Preliminary

Specification: PART 24 Temperature(°C): 22

Tested By: David Light Relative Humidity(%) 45

E.U.T.: ALPINE GPRS 919

Configuration: TRANSMIT FULL POWER IN TEST FIXTURE

Sample Number: 1

Location: Lab 1 RBW: Refer to plots

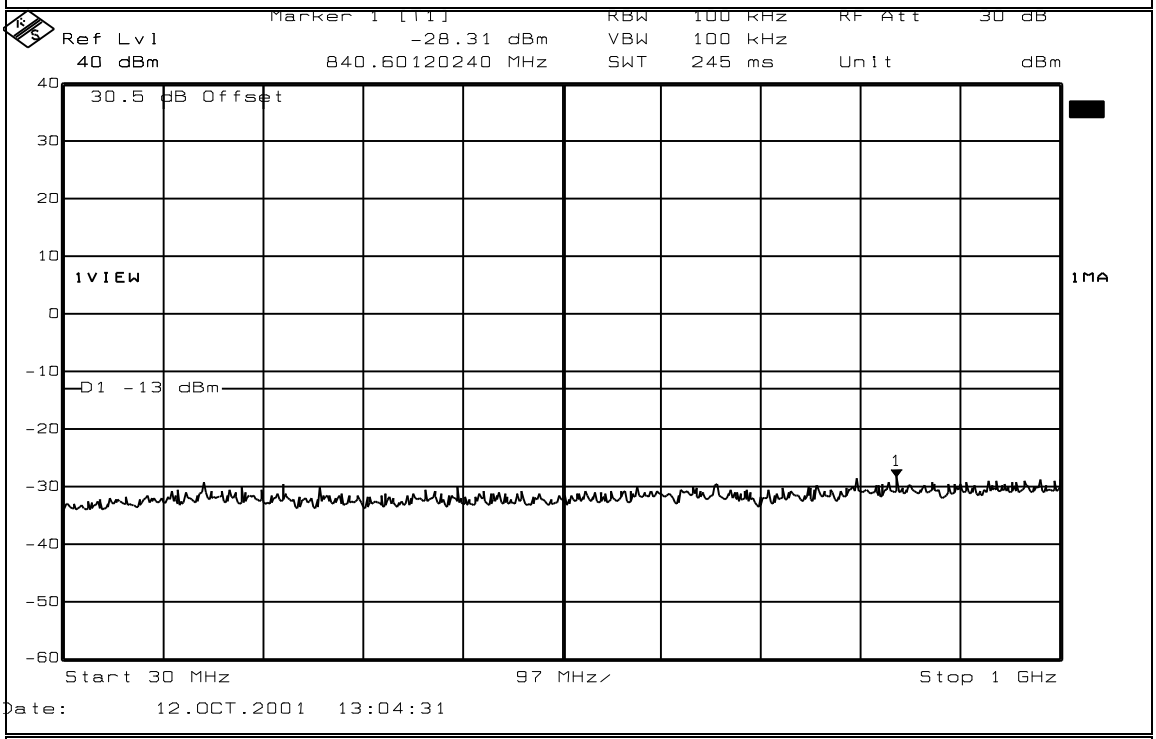
Detector Type: Peak VBW: Refer to plots

Test Equipment Used

Antenna:		Directional Coupler:	
Pre-Amp:		Cable #1:	1627
Filter:		Cable #2:	
Receiver:	1036	Cable #3:	
Attenuator #1	1470	Cable #4:	
Attenuator #2:	1478	Mixer:	

Additional equipment used:

Measurement Uncertainty: +/-3.6 dB



Notes: **Tx Mid Band**

Test Data – Spurious Emissions at Antenna Terminals

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Tel: (972) 436-9600
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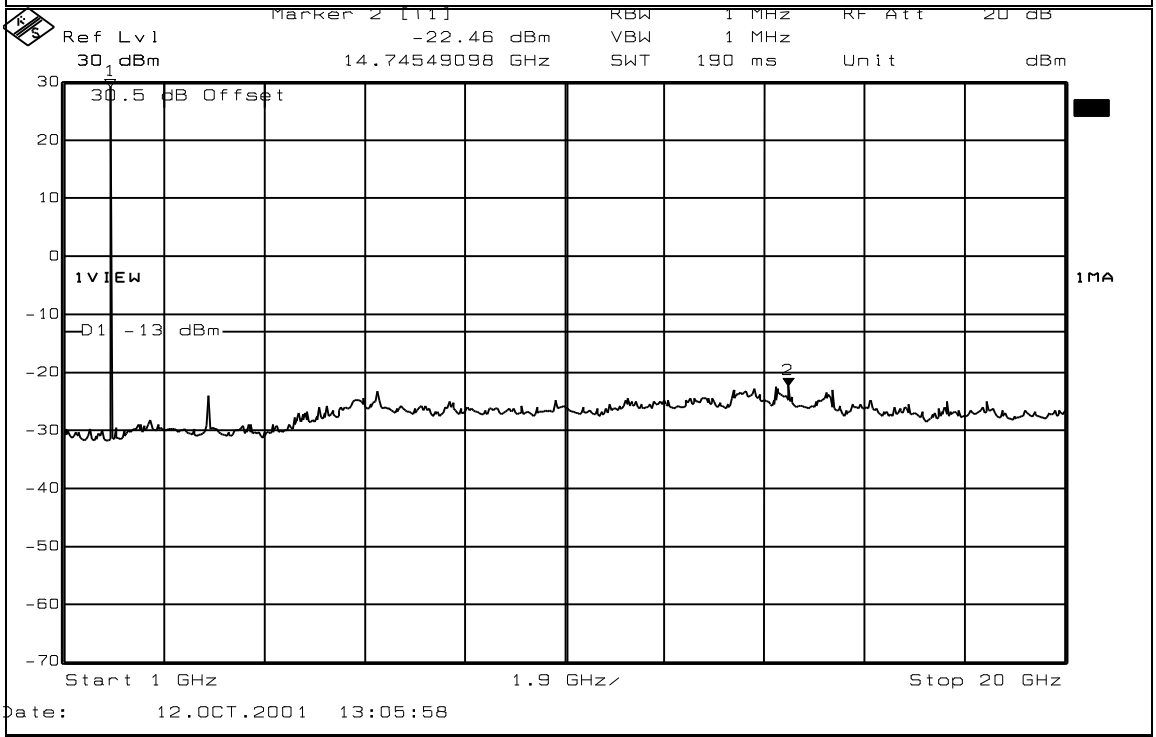
Data Plot **Spurious Emissions at Antenna Terminals**

Page 2 of 6

Job No.:	1L0486R	Date:	10/12/2001
Specification:	PART 24	Temperature(°C):	22
Tested By:	David Light	Relative Humidity(%)	45
E.U.T.:	ALPINE GPRS 919		
Configuration:	TRANSMIT FULL POWER IN TEST FIXTURE		



Notes: **Tx Mid Band**
Marker 1 indicates carrier
Marker 2 indicates highest emission

Test Data – Spurious Emissions at Antenna Terminals

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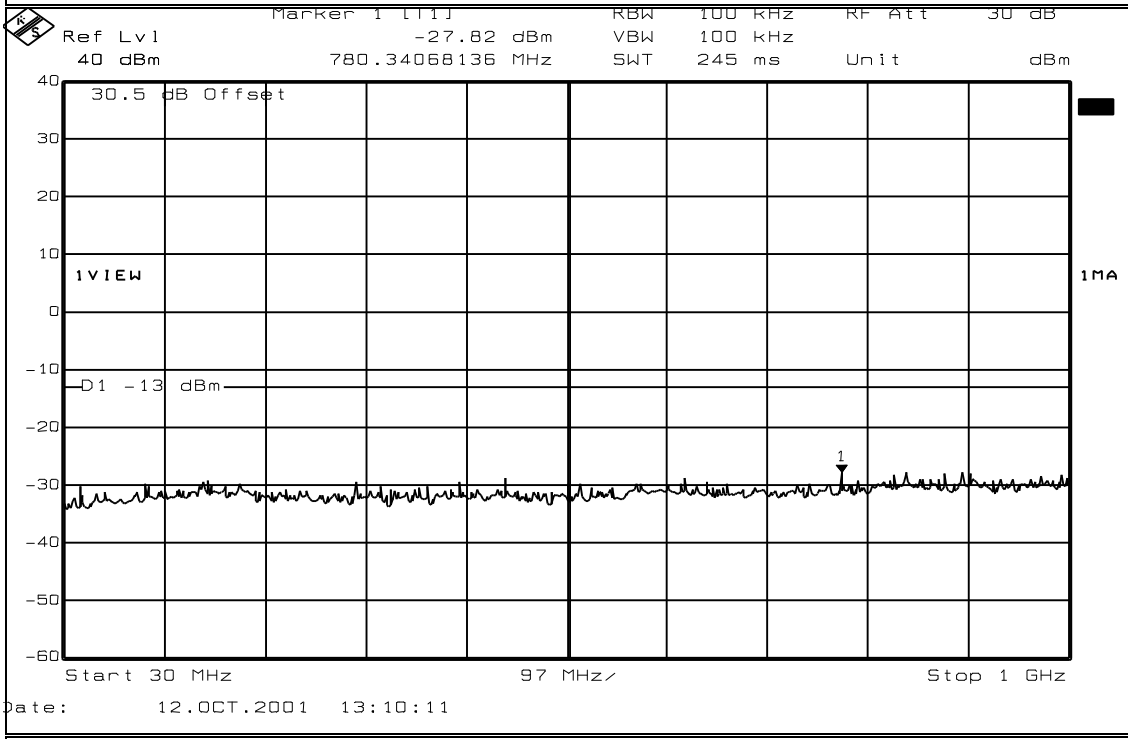
Data Plot **Spurious Emissions at Antenna Terminals**

Page 3 of 6

Job No.: 1L0486R Date: 10/12/2001
Specification: PART 24 Temperature(°C): 22
Tested By: David Light Relative Humidity(%) 45
E.U.T.: ALPINE GPRS 919
Configuration: TRANSMIT FULL POWER IN TEST FIXTURE



Notes: **Tx Lowest channel**

Test Data – Spurious Emissions at Antenna Terminals

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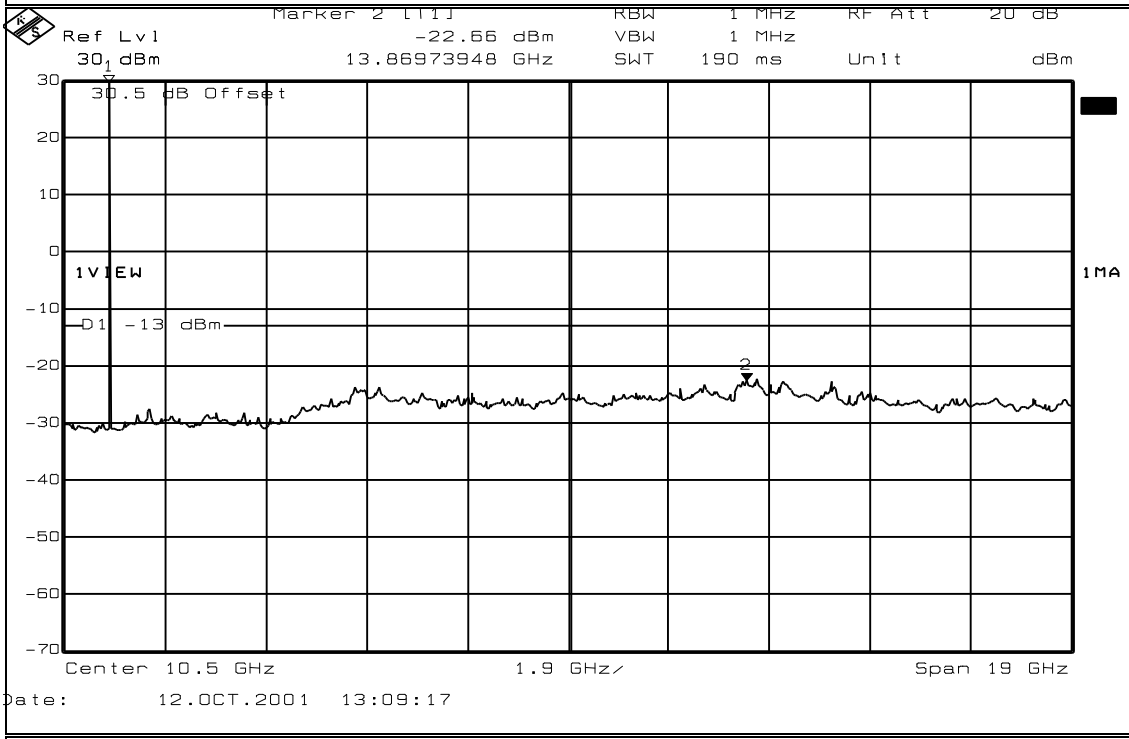
Test Plot: **Spurious Emissions at Antenna Terminals**

Page 4 of 6

Job No.:	1L0486R	Date:	10/12/2001
Specification:	PART 24	Temperature(°C):	22
Tested By:	David Light	Relative Humidity(%)	45
E.U.T.:	ALPINE GPRS 919		
Configuration:	TRANSMIT FULL POWER IN TEST FIXTURE		



Notes:	**Tx Lowest channel**
	Marker 1 indicates carrier
	Marker 2 indicates highest emission

Test Data – Spurious Emissions at Antenna Terminals

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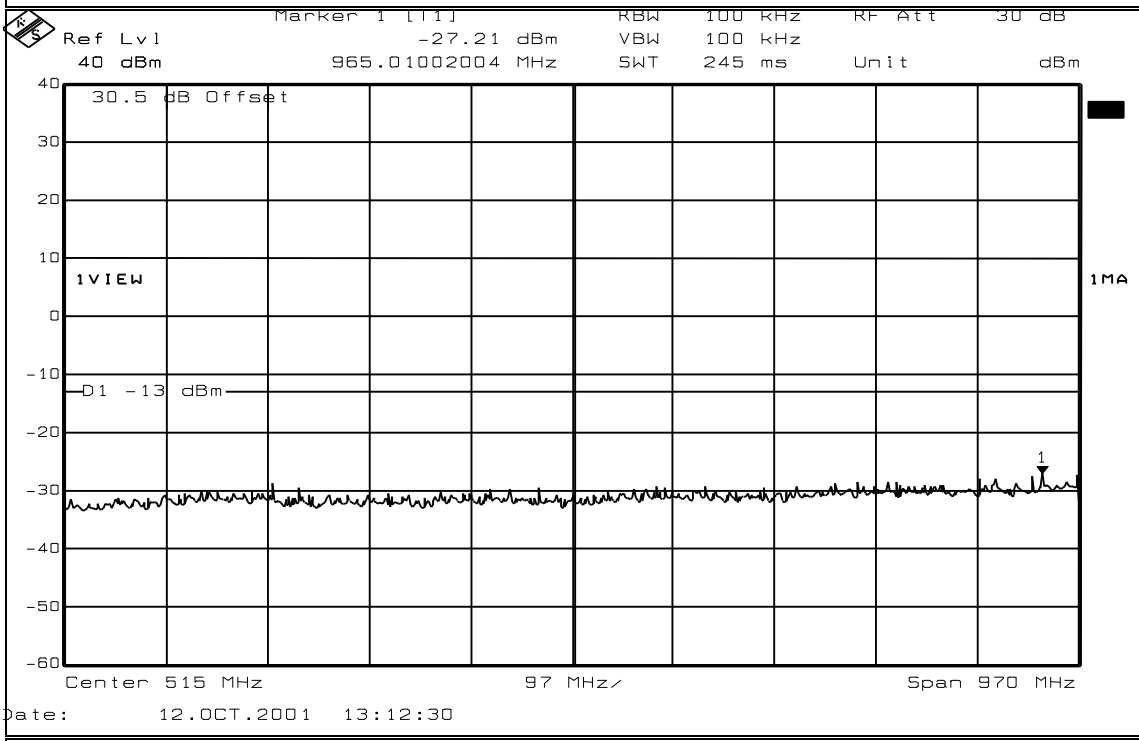
Tel: (972) 436-9600
Fax: (972) 436-2667

Nemko Dallas, Inc.

Test Plot: **Spurious Emissions at Antenna Terminals**

Page 5 of 6

Job No.: 1L0486R Date: 10/12/2001
Specification: PART 24 Temperature(°C): 22
Tested By: David Light Relative Humidity(%) 45
E.U.T.: ALPINE GPRS 919
Configuration: TRANSMIT FULL POWER IN TEST FIXTURE



Notes: **Tx Highest channel**

Test Data – Spurious Emissions at Antenna Terminals

Dallas Headquarters:
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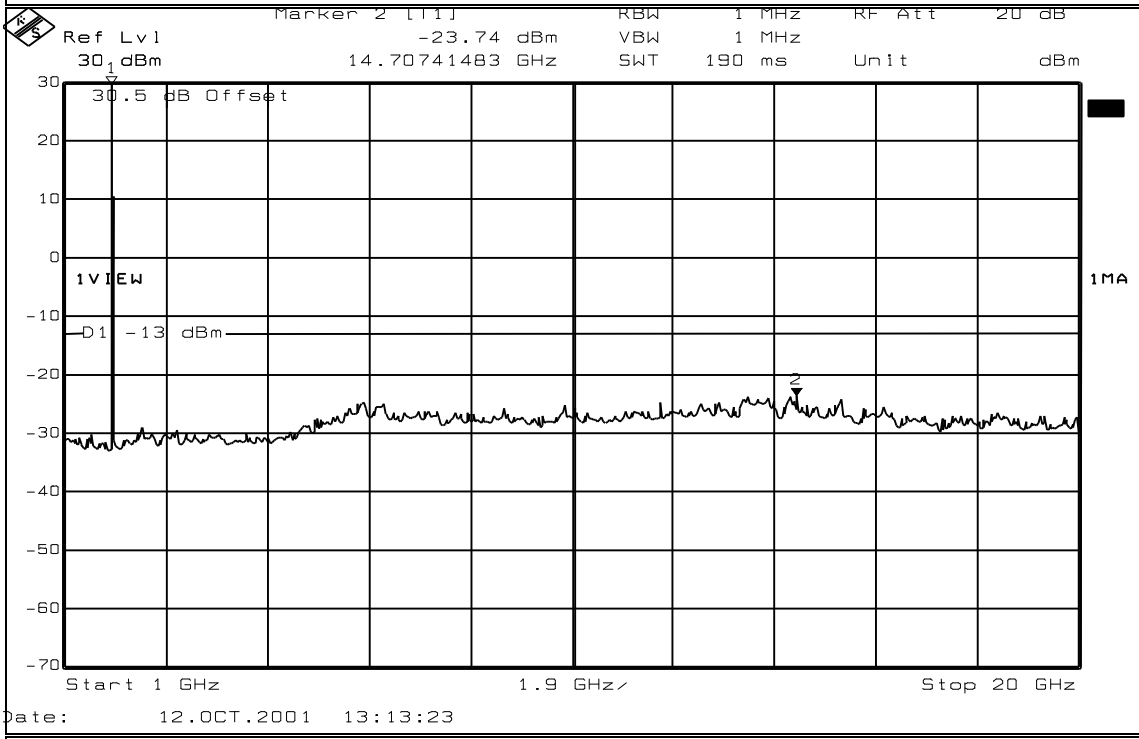
Tel: (972) 436-9600
Fax: (972) 436-2667

Nemko Dallas, Inc.

Test Plot: **Spurious Emissions at Antenna Terminals**

Page 6 of 6

Job No.:	1L0486R	Date:	10/12/2001
Specification:	PART 24	Temperature(°C):	22
Tested By:	David Light	Relative Humidity(%)	45
E.U.T.:	ALPINE GPRS 919		
Configuration:	TRANSMIT FULL POWER IN TEST FIXTURE		



Notes:
Tx Highest channel
Marker 1 indicates carrier
Marker 2 indicates highest emission

Section 6. Field Strength of Spurious

NAME OF TEST: Field Strength of Spurious	PARA. NO.: 2.1053
TESTED BY: David LightTom Tidwell & Debbie Jensen	DATE:10/12/2001

Test Results: Complies.

Test Data: See attached table.

Test Data - Radiated Emissions

Dallas Headquarters:
802 N. Kealy
Lewisville, TX 75057
Tel: (972) 436-9600
Fax: (972) 436-2667

Nemko Dallas, Inc.

Field Strength of Spurious Emissions

Page 1 of 1 — Complete: ____ Preliminary: X

Job No.: 1L0486R — Date: 10/12/2001

Specification: Part 24 — Temperature(°C): 22

Tested By: Tom Tidwell — Relative Humidity(%): 45

E.U.T.: ALPINE GPRS 919

Configuration: transmit full power in test fixture

Sample No: 1

Location: AC 3 — RBW: 1 MHz — Measurement Distance: 3 m

Detector Type: Peak — VBW: 1 MHz

Test Equipment Used

Antenna:		Directional Coupler:	
Pre-Amp:		Cable #1:	1484
Filter:	1481	Cable #2:	1485
Receiver:	1464	Cable #3:	
Attenuator #1		Cable #4:	
Attenuator #2:		Mixer:	

Additional equipment used:

Measurement Uncertainty: +/-3.6 dB

Frequency (MHz)	Meter Reading (dBm)	Correction Factor (dB)		Pre-Amp Gain (dB)	Substitution Antenna Gain (dBd)		ERP (dBm)	ERP (mW)	Polarity	Comments
3760	-40.0	34.3		33.7	8.0		-31.4	0.000729	H	S/N 1
5640	-56.3	36.0		33.5	9.1		-44.7	0.000034	H	
7521	-55.7	39.8		33	9.4		-39.5	0.000113	H	
9400	-56.8	41.4		35.7	10.1		-41.1	0.000078	H	
11280	-65.0	44.4		35.8	11.1		-45.3	0.000029	H	
3760	-31.5	40.4		33.7	8.0		-16.8	0.020797	V	
5640	-50.5	38.5		33.5	9.1		-36.4	0.000227	V	
7521	-49.3	40.4		33	9.4		-32.4	0.000570	V	
9400	-49.5	39.3		35.7	10.1		-35.9	0.000258	V	
11280	-56.5	42.0		35.8	11.1		-39.3	0.000119	V	

Notes: **Scanned to the 10th Harmonic of carrier**

Photographs of Test Setup

FRONT VIEW

REAR VIEW

Section 7. Frequency Stability

NAME OF TEST: Frequency Stability	PARA. NO.: 24.235
TESTED BY: Tom Tidwell & Debbie Jensen	DATE:

Test Results: Complies.

Measurement Data: Standard Test Frequency: 1880.131 MHz
Standard Test Voltage: 115 VAC

Frequency Stability

Client: ENFORA W.O.# 1L0486R

EUT: ALPINE GPRS 919 S/N: 1

Date: 10/15/2001 Tech: LIGHT

Test Equipment used: 1026-283

Temperature	Voltage	Frequency Error (Hz)
20 °C	115 VAC	0
20 °C	98 VAC	+10
20 °C	132 VAC	+12
10 °C	115 VAC	+233
0 °C	115 VAC	+544
-10 °C	115 VAC	+642
-20 °C	115 VAC	+426
-30 °C	115 VAC	N/A
30 °C	115 VAC	+33
40 °C	115 VAC	+486
50 °C	115 VAC	-560

Section 8. Test Equipment List

ASSET	Description	Manufacturer Model Number	Serial Number	Cal. Date	Cal. Due
1029	PEAK POWER METER	HP 8900D	3303U0012	03/12/01	03/12/02
1030	PEAK POWER SENSOR	HP 84811A	2539A03573	03/12/01	03/12/02
1036	SPECTRUM ANALYZER	ROHDE & SCHWARZ FSEK30	830844/006	09/17/01	09/18/03
1470	10 db Attenuator DC 18 Ghz	MCL Inc. BW-S10W2 10db-2WDC	NONE	CBU	N/A
1478	20db Attenuator DC 18 Ghz	MCL Inc. BW-S20W6	NONE	CBU	N/A
1627	CABLE, 5 ft	MEGAPHASE 10312 1GVT4	N/A	CBU	N/A
1481	Microwave Highpass Filter	K & L 3DH1-2000/T8000-0/0	4	Cal B4 Use	N/A
1464	Spectrum analyzer	Hewlett Packard 8563E	3551A04428	01/02/01	01/02/02
1484	Cable 2.0-18.0 Ghz	Storm PR90-010-072	N/A	06/01/01	06/01/02
1485	Cable 2.0-18.0 Ghz	Storm PR90-010-216	N/A	06/01/01	06/01/02
993	Horn antenna	A.H. Systems SAS-200/571	XXX	07/16/99	10/15/01
1026	FREQUENCY COUNTER	HEWLETT PACKARD 5350B	8232A01493	08/14/01	08/14/02
283	ENVIROMENTAL CHAMBER	ENVIROTRONICS SH27	129010083	05/02/01	05/02/02

Annex A - Test Methodologies

NAME OF TEST: RF Power Output **PARA. NO.: 2.985**

Minimum Standard: Para. No.24.232. Base stations are limited to 1640 watts peak E.I.R.P. with an antenna height up to 300 meters HAAT. In no case may the peak output power of a base station transmitter exceed 100 watts.

Method Of Measurement: CDMA Per ANSI/J-STD-008
TDMA Per ANSI/J-STD-010
PCS 1900 Per ANSI/J-STD-007

Detachable Antenna:
The peak power at antenna terminals is measured using an in-line peak power meter or a spectrum analyzer.

Integral Antenna:
If the antenna is not detachable from the circuit then the Peak Power Output is derived from the peak radiated field strength of the fundamental emission by using the plane wave relation $GP/4\pi R^2 = E^2/120\pi$ and proceeding as follows:

$$P = \frac{E^2 R^2}{30G} = \frac{E^2 3^2}{30G}$$

where,

P = the equivalent isotropic radiated power in watts
E = the maximum measured field strength in V/m
R = the measurement range (3 meters)
G = the numeric gain of the transmit antenna in relation to an isotropic radiator

NAME OF TEST: Occupied Bandwidth **PARA. NO.: 2.989**

Minimum Standard: Para. No. 24.238(b). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB.

Method Of Measurement:

CDMA Per ANSI/J-STD-008

Spectrum analyzer settings:
RBW: 30 kHz
VBW: ≥ RBW
Span: 5 MHz
Sweep: Auto

GSM Per ANSI/J-STD-007

RBW: 3 kHz
VBW: ≥ RBW
Span: 2 MHz
Sweep: Auto

NADC Per IS-136

RBW: 1 kHz
VBW: ≥ RBW
Span: 1 MHz
Sweep: Auto

NAME OF TEST: Spurious Emission at Antenna Terminals PARA. NO.: 2.991

Minimum Standard: Para. No.24.238(a). On any frequency outside a licensee's frequency block, the power of any emission shall be attenuated below the transmitter power by at least 43 + 10 log (P) dB.

Method Of Measurement:

Spectrum analyzer settings:

CDMA Per ANSI/J-STD-008

RBW: 1 MHz (> 1 MHz from Band Edge)
RBW: 20 kHz (< 1MHz from Band Edge)
VBW: ≥ RBW
Sweep: Auto
Video Avg: 6 Sweeps

GSM Per ANSI/J-STD-007

RBW: 1 MHz (> 1 MHz from Band Edge)
RBW: 3 kHz (< 1 MHz from Band Edge)
VBW: ≥ RBW
Sweep: Auto
Video Avg: Disabled

NADC Per IS-136

RBW: 1 MHz (> 1 MHz from Band Edge)
RBW: 1 kHz (< 1 MHz from Band Edge)
VBW: ≥ RBW
Sweep: Auto
Video Avg: Disabled

To demonstrate compliance at band edges the frequency of the input signal is set to the lowest and highest assigned channel and the center frequency of the spectrum analyzer is set to the upper and lower edges of the appropriate frequency block.

NAME OF TEST: Field Strength of Spurious Radiation PARA. NO.: 2.993

Minimum Standard: Para. No.24.238(a). On any frequency outside a licensee's frequency block, the power of any emission shall be attenuated below the transmitter power by at least 43 + 10 log (P) dB.

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.: 2.995**

Minimum Standard: Para. No. 24.235. The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

Method Of Measurement: CDMA Per ANSI/J-STD-008
TDMA Per ANSI/J-STD-007
NADC Per IS-136

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. 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

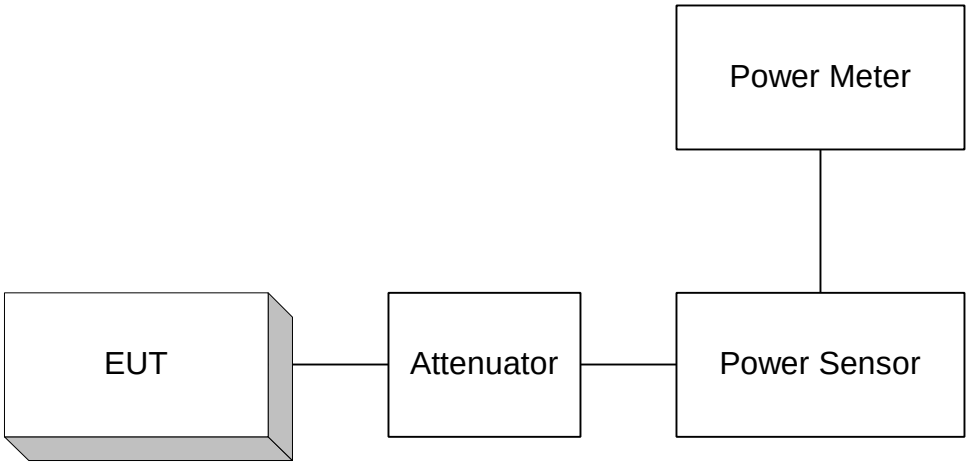
The input voltage to the E.U.T. is set to S.T.V. and the temperature of the environmental chamber is varied in 10 degree steps from -30 degrees C to +50 degrees C. The E.U.T. is allowed to stabilize at each temperature and the frequency is measured in 30 second intervals for a period of 5 minutes.

Digitally Modulated Signals

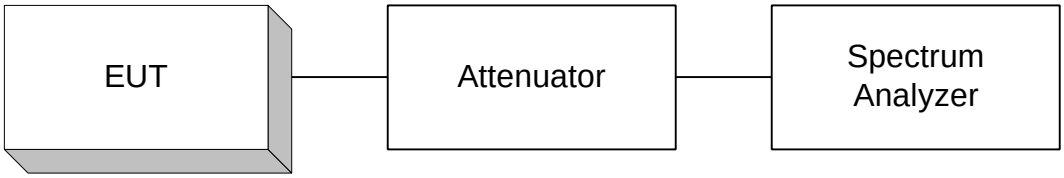
Equipment that produces a digitally modulated carrier is tested using a vector modulation analyzer. Frequency accuracy and rho are measured over the specified environmental extremes.

Annex B - Test Diagrams

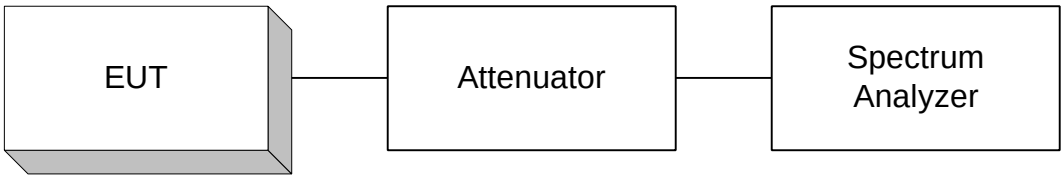
Para. No. 2.985 - R.F. Power Output



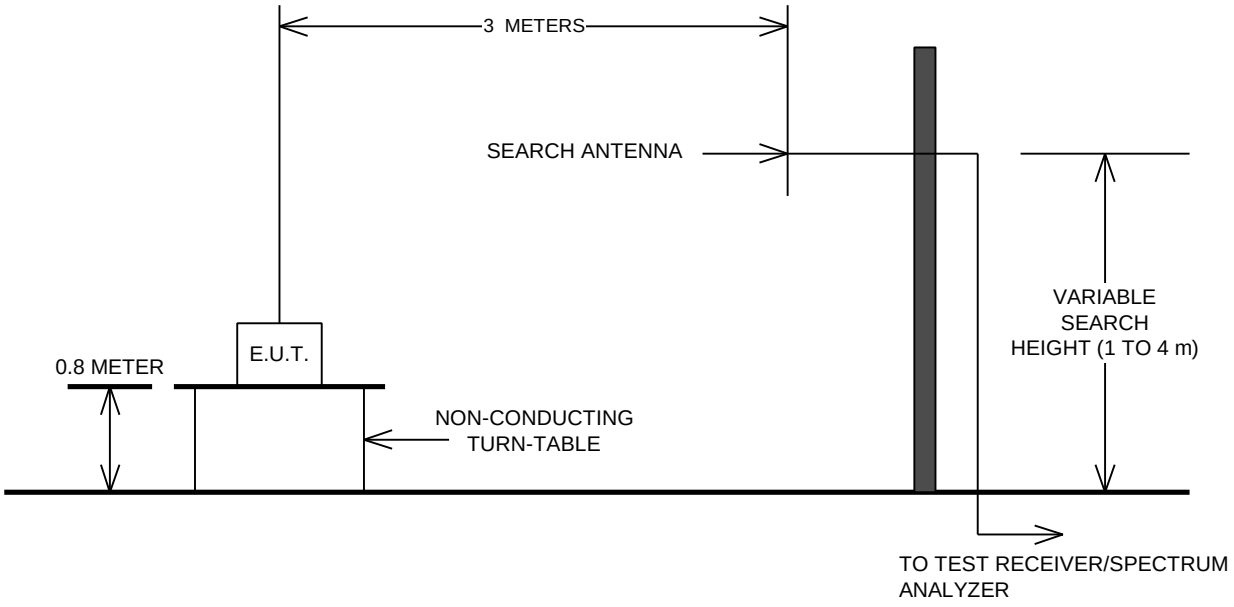
Para. No. 2.989 - Occupied Bandwidth



Para. No. 2.991 Spurious Emissions at Antenna Terminals



Para. No. 2.993 - Field Strength of Spurious Radiation



Para. No. 2.995 - Frequency Stability