



Nemko Test Report No.:

4L0664RUS1

Applicant:

Communication Components, Inc.
89 Leuning Street
Second Floor
Hackensack, NJ 07606

Equipment Under Test:

DAC-1819-125

In Accordance With:

FCC Part 24, Subpart E
Broadband PCS Amplifiers

Tested By:

Nemko Dallas Inc.
802 N. Kealy
Lewisville, Texas 75057-3136

Authorized By:


Tom Tidwell, Frontline Group Manager

Date:

11/11/04

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EQUIPMENT: DAC-1819-125**Section 1. Summary of Test Results**

Manufacturer: Communication Components

Model No.: DAC-1819-125

Serial No.: G006267

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. NONE

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Summary Of Test Data

NAME OF TEST	PARA. NO.	SPEC.	RESULT
RF Power Output	24.232	100W	Complies
Occupied Bandwidth	24.238	Input/Output	Complies
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		NA

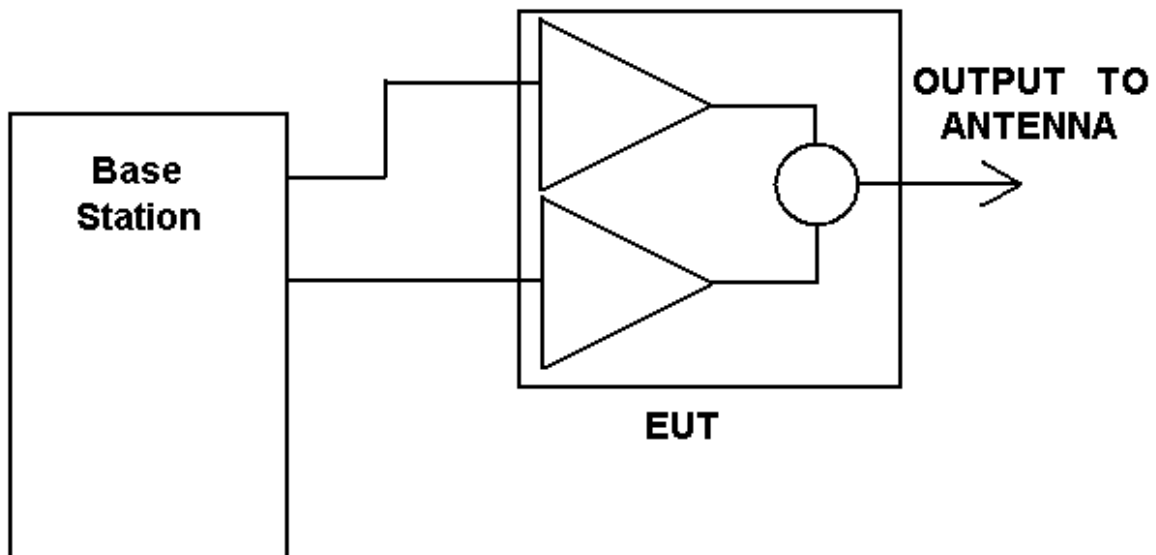
Measurement uncertainty for each test configuration is expressed to 95% probability.

Section 2. General Equipment Specification

Supply Voltage Input:	28 Vdc		
Frequency Bands: Downlink:	☒ Block A: 1930 – 1945 MHz ☒ Block D: 1945 – 1950 MHz ☒ Block B: 1950 – 1965 MHz ☒ Block E: 1965 – 1970 MHz ☒ Block F : 1970 – 1975 MHz ☒ Block C: 1975 – 1990 MHz		
Frequency Bands: Uplink:	☐ 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:	CDMA (F9W) ☐	GSM (GXW) ☒	EDGE (G7W) ☒
Output Impedance:	50 ohms		
RF Output (Rated): Uplink	Per channel: NA W Total: NA W		
RF Output (Rated): Downlink	Per channel: 62.5 W Total: 125 W Power output needs to be lowered to 33.2 dBm at 1930.2 and 1989.8 MHz (Bandedges) to achieve compliance when using GSM or EDGE modulation.		
Frequency Translation:	F1-F1 ☒	F1-F2 ☐	N/A ☐
Band Selection:	Software ☐	Duplexer ☐	Fullband ☒

Description of EUT

The device is a base station amplifier operating in the PCS band utilizing GSM and GSM EDGE technology. Each input outputs 62.5 Watts single carrier only and input into a combiner prior to output. The device is rated at 125 Watts combined power.

System Diagram

Section 3. RF Power Output

NAME OF TEST: RF Power Output	PARA. NO.: 2.1046
TESTED BY: David Light	DATE: 10/26/04

Test Results: Complies.**Measurement Data:**

	Modulation Type	Per Channel Output Power (dBm)	Composite Output Power (dBm)
Uplink	GSM	NA	NA
Downlink	GSM	48	52
Uplink	GSM EDGE	NA	NA
Downlink	GSM EDGE	48	52

Note – The device was tested at 125 Watts max power to compensate for any insertion loss prior to antenna input. The rf output power at the antenna port after losses will never be more than that required to produce 100 W eirp.

Reduced Power measurements at Band Edges

	Modulation Type	Single Channel Output Power (1930.2MHz)	Single Channel Output Power (1989.8MHz)
Downlink	EDGE	36.1 dBm	36.0 dBm
Downlink	GSM	33.2 dBm	33.6 dBm

Equipment Used: 1036-1064-1055-1626**Measurement Uncertainty:** +/- 1.7 dB**Temperature:** 22 °C**Relative Humidity:** 40%

Section 4. Occupied Bandwidth

NAME OF TEST: Occupied Bandwidth	PARA. NO.: 2.1049
TESTED BY: David Light	DATE:10/26/04

Test Results: Complies.

Test Data: See attached plot(s).

EQUIPMENT: DAC-1819-125

Test Data – Occupied Bandwidth



Nemko Dallas, Inc.

Dallas Headquarters:

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

Data Plot

Occupied Bandwidth

Page 1 of 4

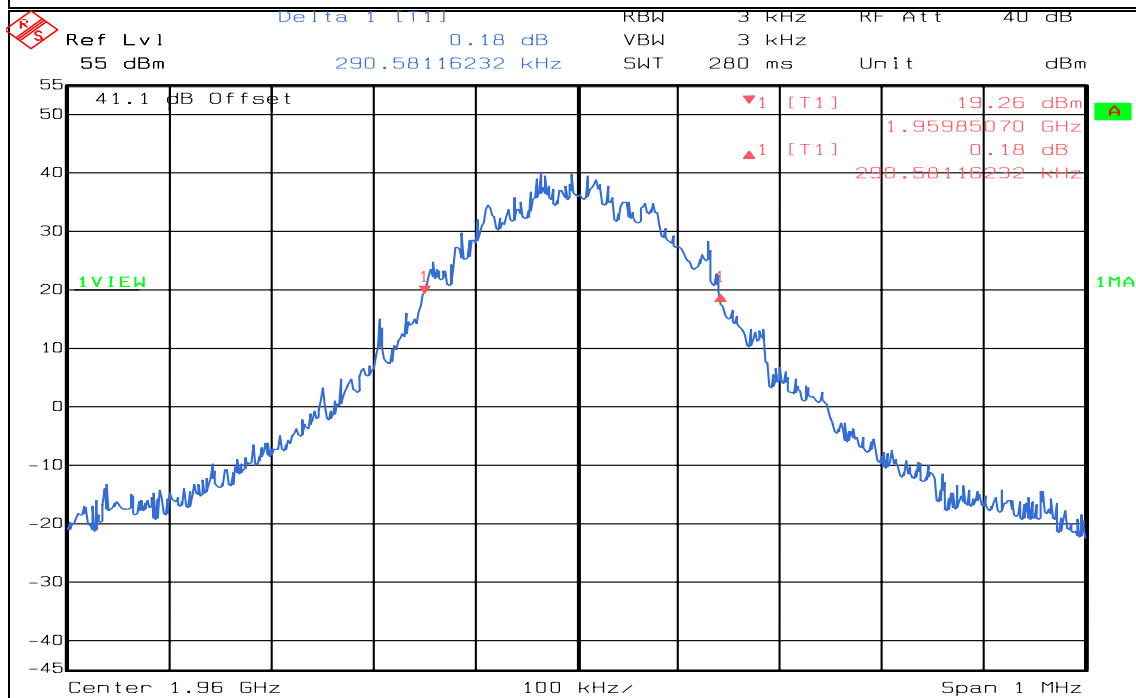
Job No.: 4L0664R Date: 10/26/2004 Complete X
Preliminary: _____

Specification: PT 24 Temperature(°C): 25
Tested By: David Light Relative Humidity(%) 45
E.U.T.: DAC-1819-125
Configuration: TX FULL POWER

Sample Number: 1
Location: Lab 1 RBW: 3 kHz
Detector Type: Peak VBW: 3 kHz Measurement Distance: NA m

Test Equipment Used

Antenna: _____ Directional Coupler: 1055
Pre-Amp: _____ Cable #1: 1626
Filter: _____ Cable #2: _____
Receiver: 1036 Cable #3: _____
Attenuator #1: 1064 Cable #4: _____
Attenuator #2: _____ Mixer: _____
Additional equipment used: _____
Measurement Uncertainty: +/-1.7 dB



Date: 26.OCT.2004 15:22:32

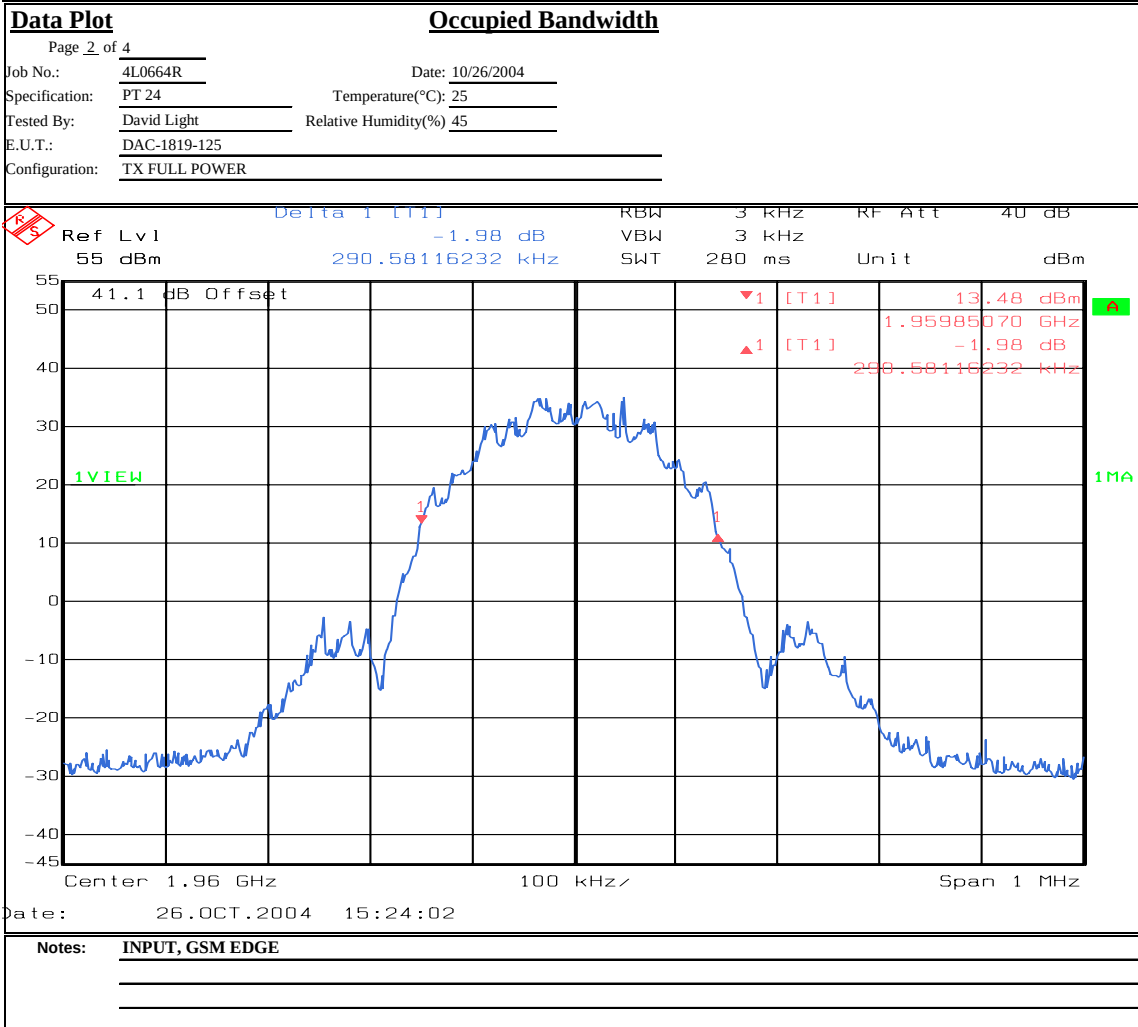
Notes: OUTPUT, GSM EDGE, 62.5 watts

EQUIPMENT: DAC-1819-125

Test Data – Occupied Bandwidth

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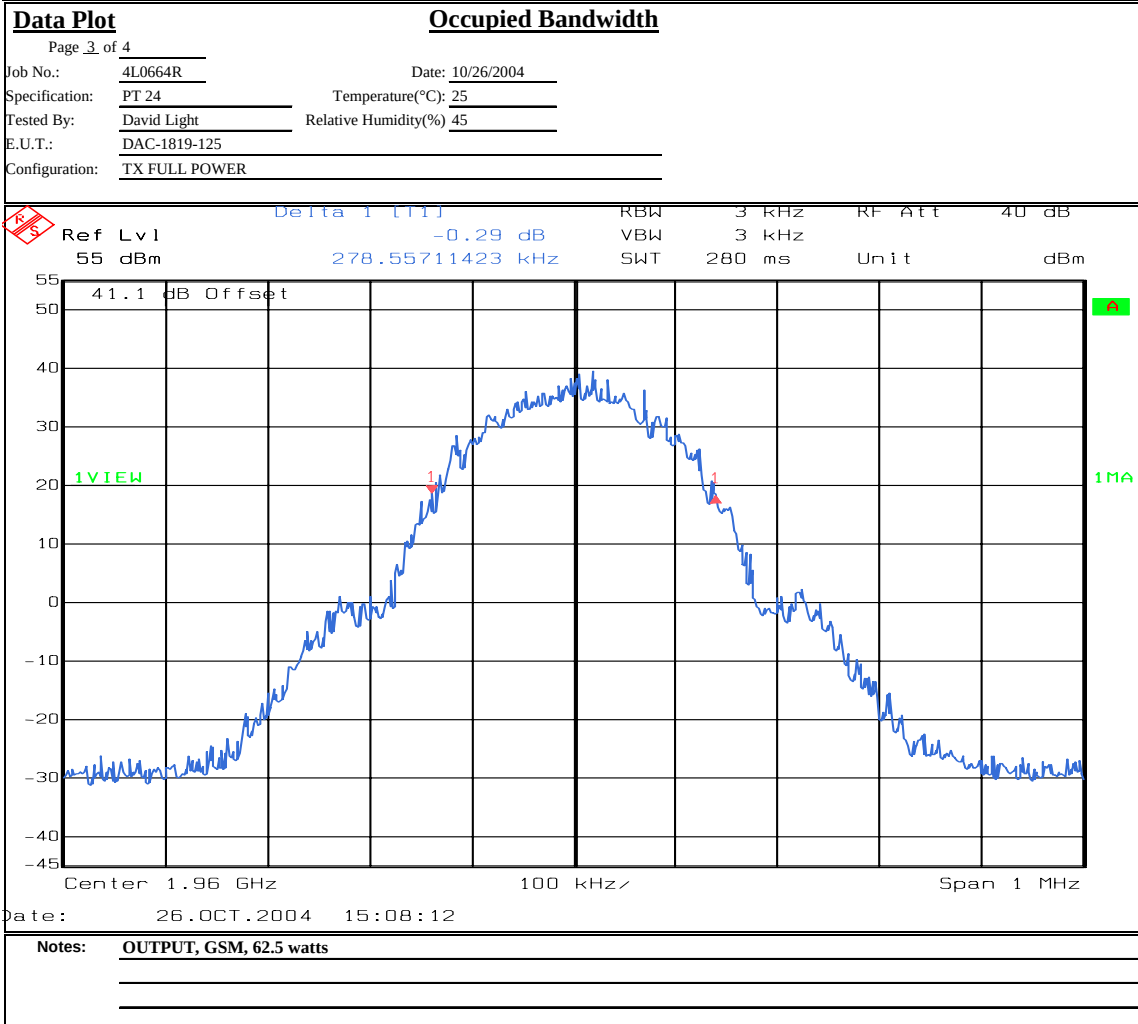
EQUIPMENT: DAC-1819-125

Test Data – Occupied Bandwidth



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Test Data – Occupied Bandwidth



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Test Plot:

Page 4 of 4

Job No.: 4L0664R

Date: 10/26/2004

Specification:	PT 24
----------------	-------

Temperature(°C): 25

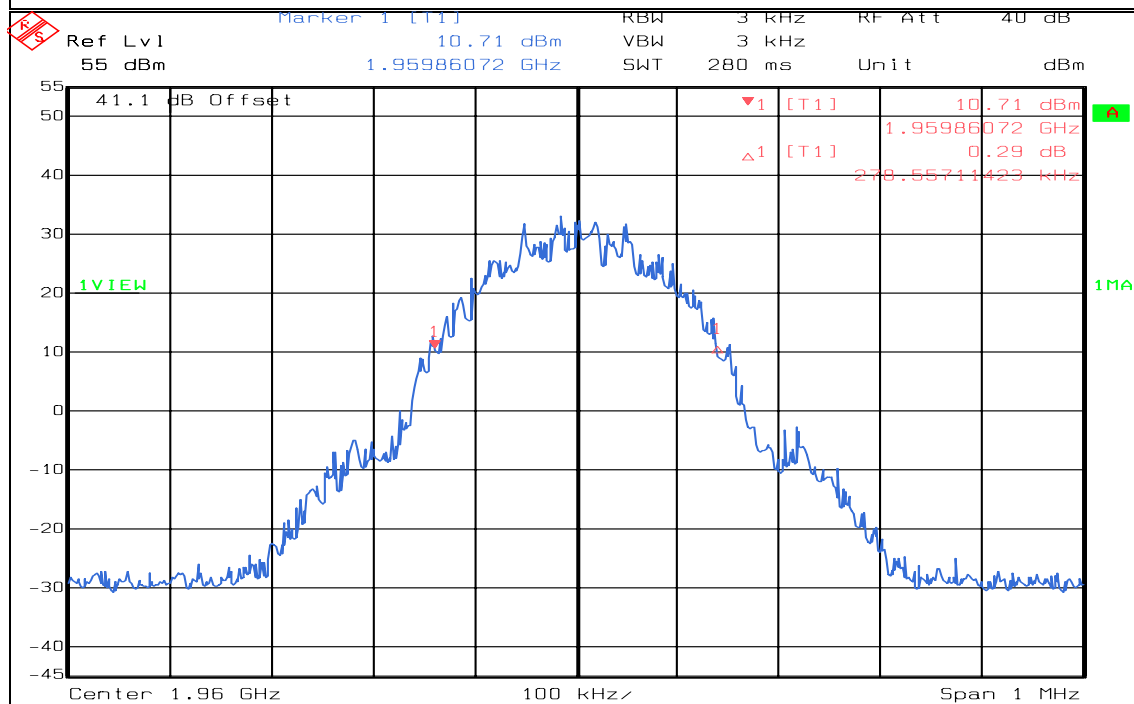
Tested By:	David Light
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Relative Humidity(%) 45

E.U.T.:	DAC-1819-125
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Configuration: TX FULL POWER

Occupied Bandwidth



Date: 26.OCT.2004 15:10:26

Notes: INPUT, GSM

Section 5. Spurious Emissions at Antenna Terminals

NAME OF TEST: Spurious Emissions @ Antenna Terminals	PARA. NO.: 2.1051
TESTED BY: David Light	DATE: 10/26/04

Test Results: Complies.

Test Data: See attached plot(s).

The spectrum was searched from 30 MHz to 20 GHz. Worst-case emissions were reported.

EQUIPMENT: DAC-1819-125

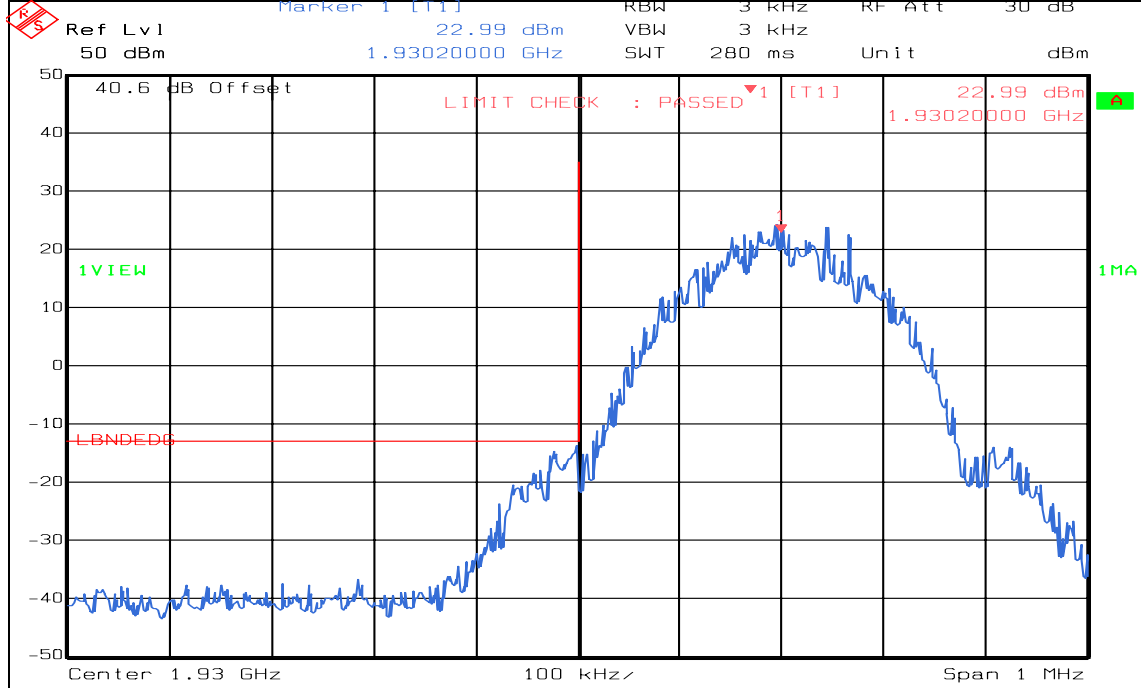
Test Data – Spurious Emissions at Antenna Terminals



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Data Plot		Spurious Emissions at Antenna Terminals	
Page 1 of 5		Complete ☒ X	
Job No.: 4L0664R	Date: 10/26/2004	Preliminary: _____	
Specification: PT 24	Temperature(°C): 25		
Tested By: David Light	Relative Humidity(%): 45		
E.U.T.: DAC-1819-125			
Configuration: TX FULL POWER			
Sample Number: 1			
Location: Lab 1	RBW: 3 kHz	Measurement	
Detector Type: Peak	VBW: 3 kHz	Distance: NA m	
Test Equipment Used			
Antenna: _____	Directional Coupler: 1055		
Pre-Amp: _____	Cable #1: 1626		
Filter: _____	Cable #2: _____		
Receiver: 1036	Cable #3: _____		
Attenuator #1: 1064	Cable #4: _____		
Attenuator #2: _____	Mixer: _____		
Additional equipment used: _____			
Measurement Uncertainty: +/-1.7 dB			
			
Date: 27.OCT.2004 12:44:13			
Notes: GSM			
1930.2 MHz @ 33.2 dBm OUTPUT			

EQUIPMENT: DAC-1819-125

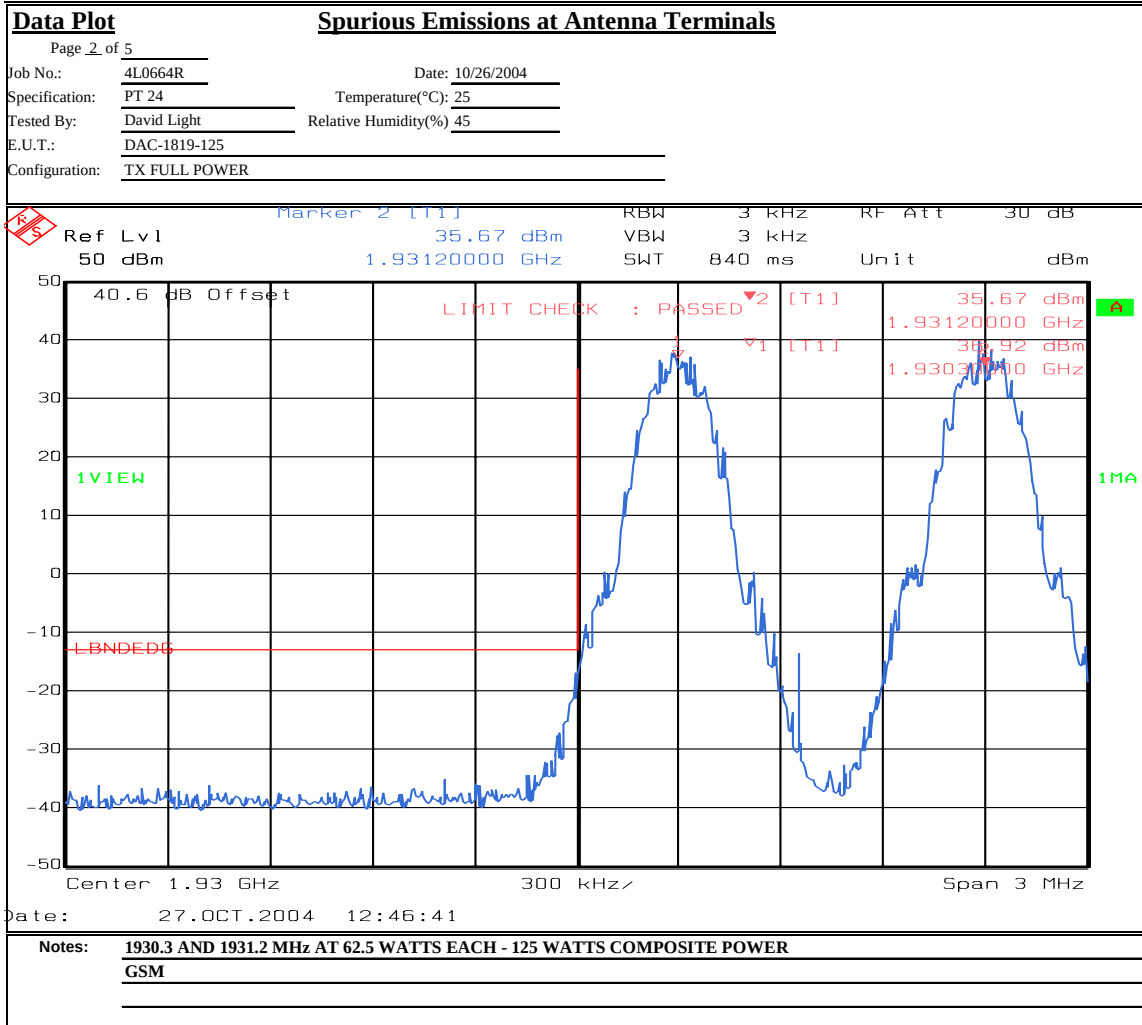
Test Data – Spurious Emissions at Antenna Terminals



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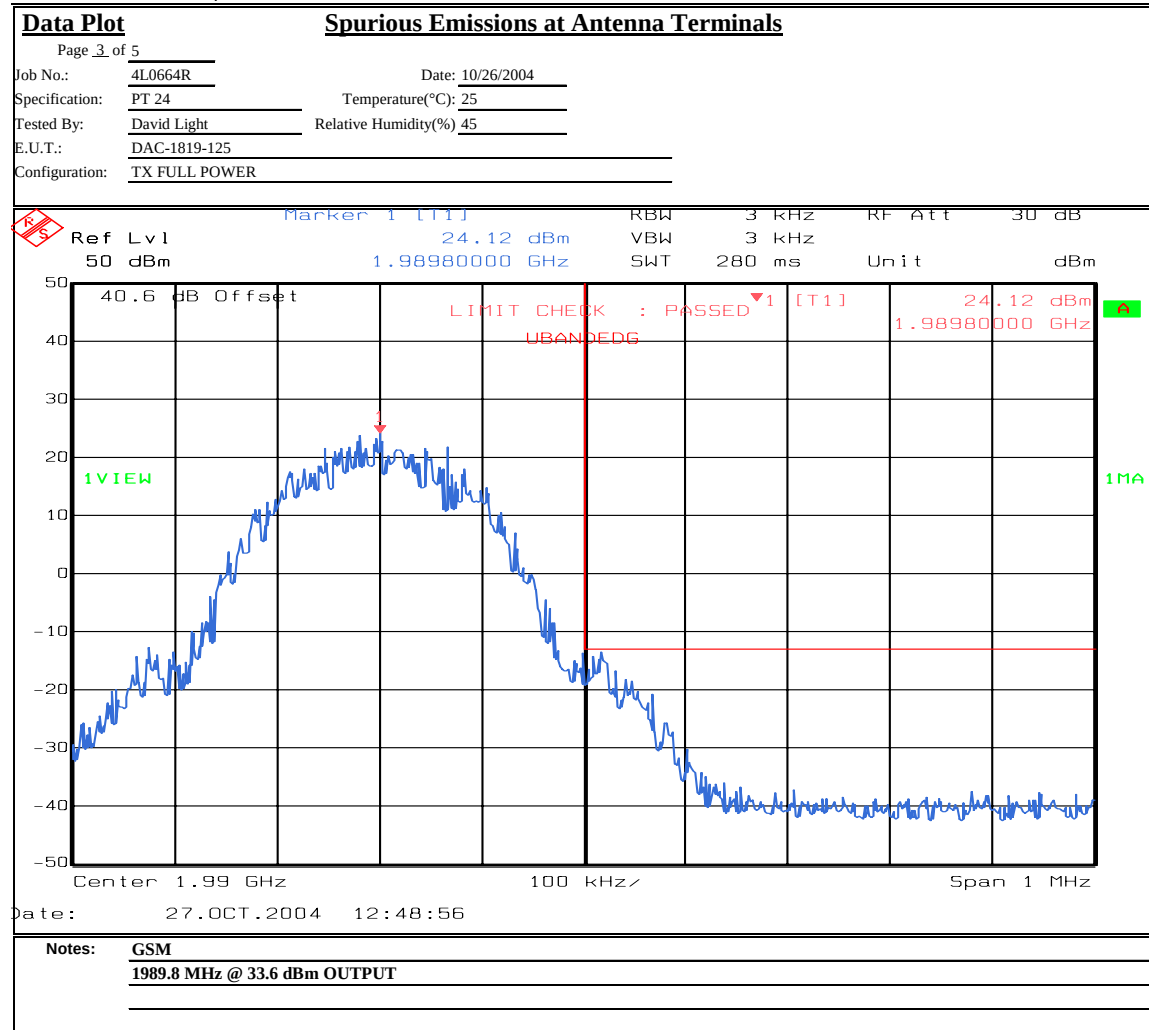


Test Data – Spurious Emissions at Antenna Terminals



Nemko Dallas, Inc.

Dallas Headquarters:

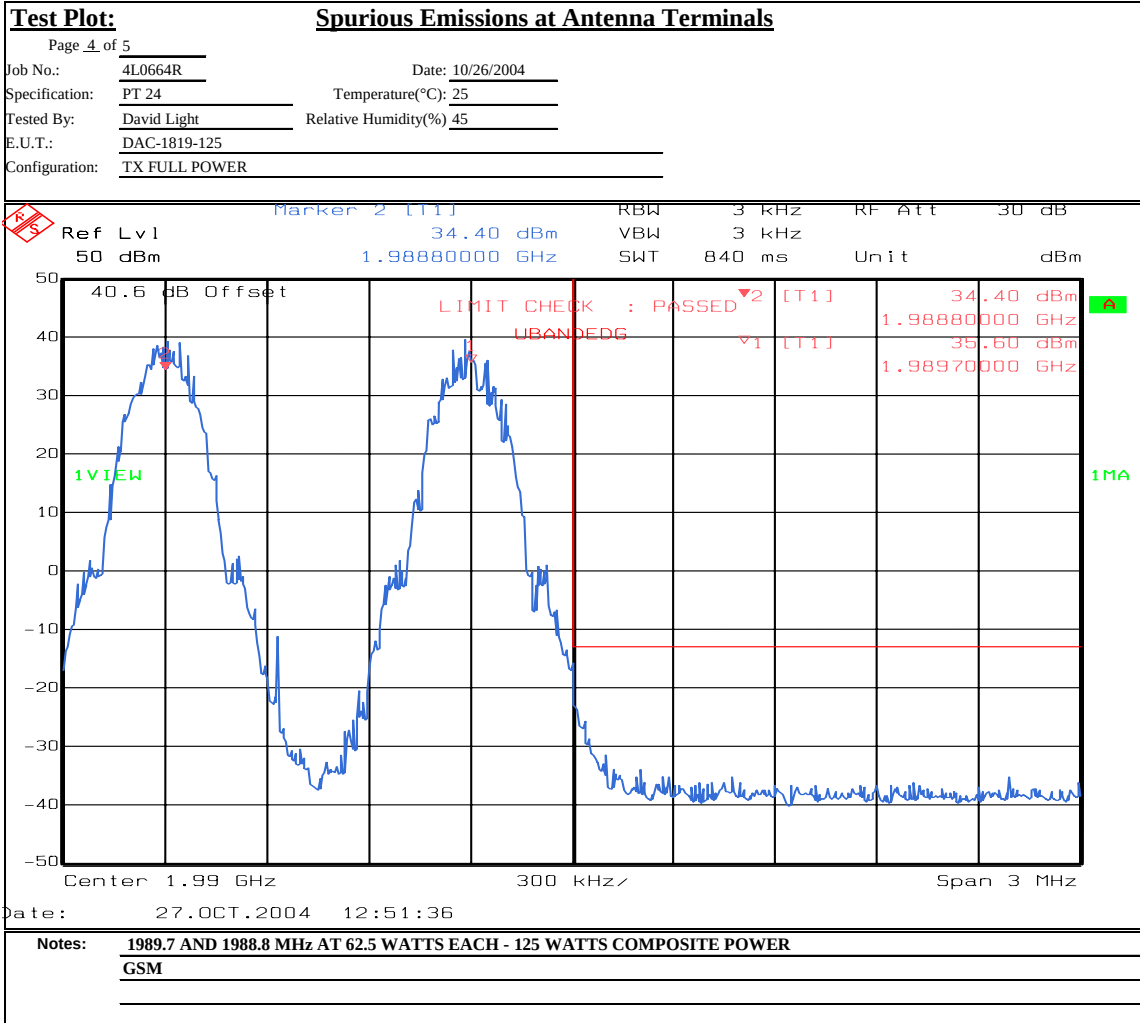
802 N. Kealy
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Fax: (972) 436-2667

EQUIPMENT: DAC-1819-125

Test Data – Spurious Emissions at Antenna Terminals

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EQUIPMENT: DAC-1819-125

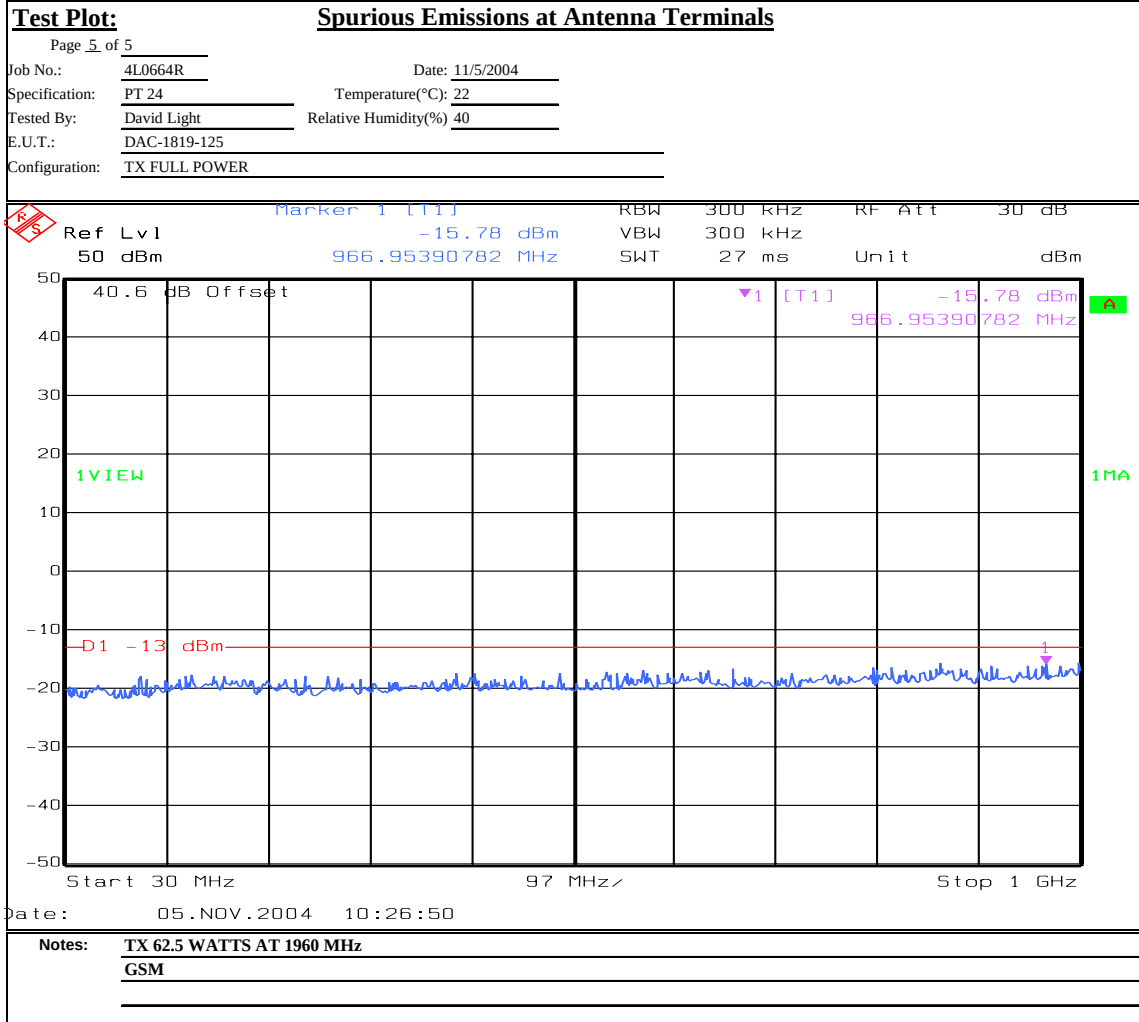
Test Data – Spurious Emissions at Antenna Terminals



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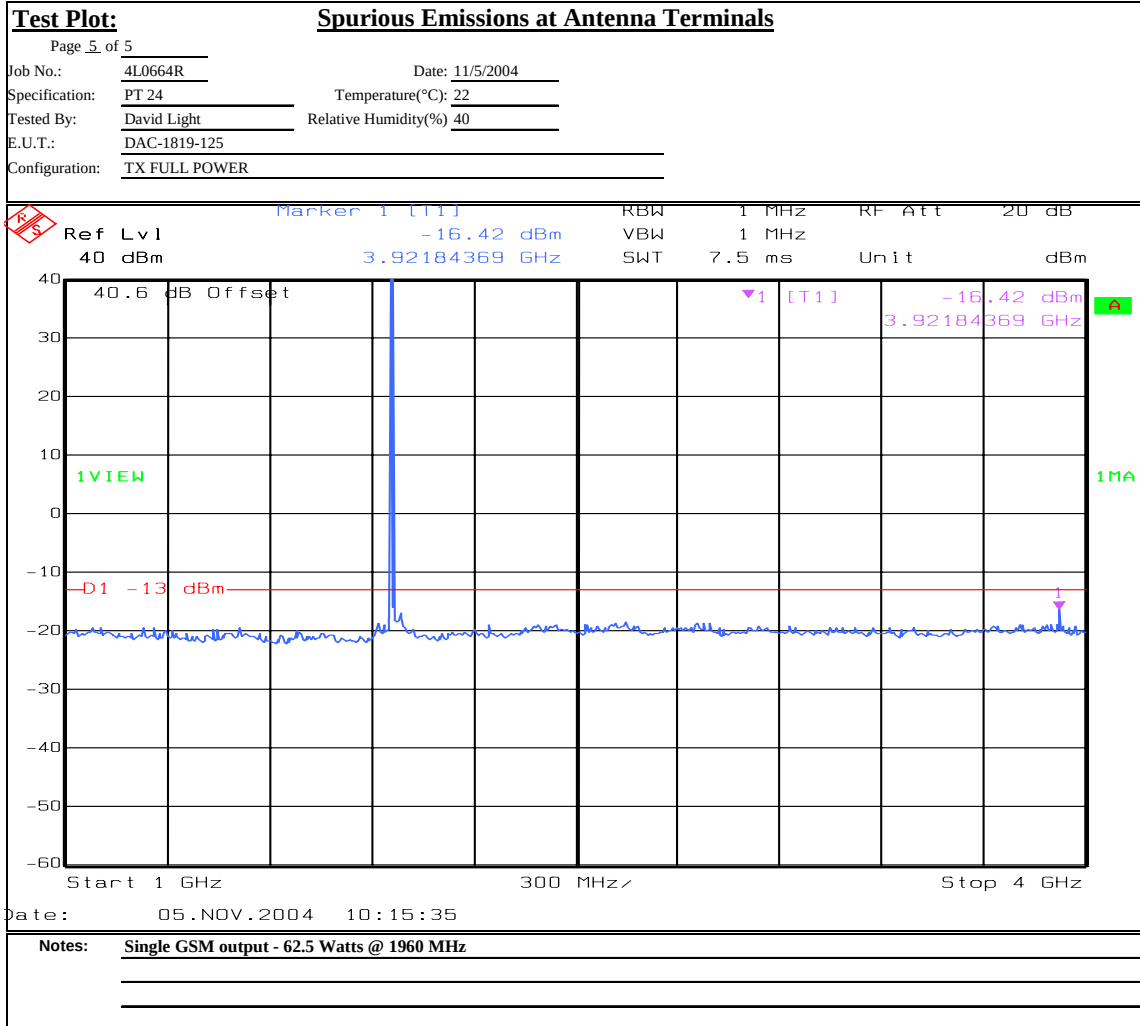


EQUIPMENT: DAC-1819-125

Test Data – Spurious Emissions at Antenna Terminals

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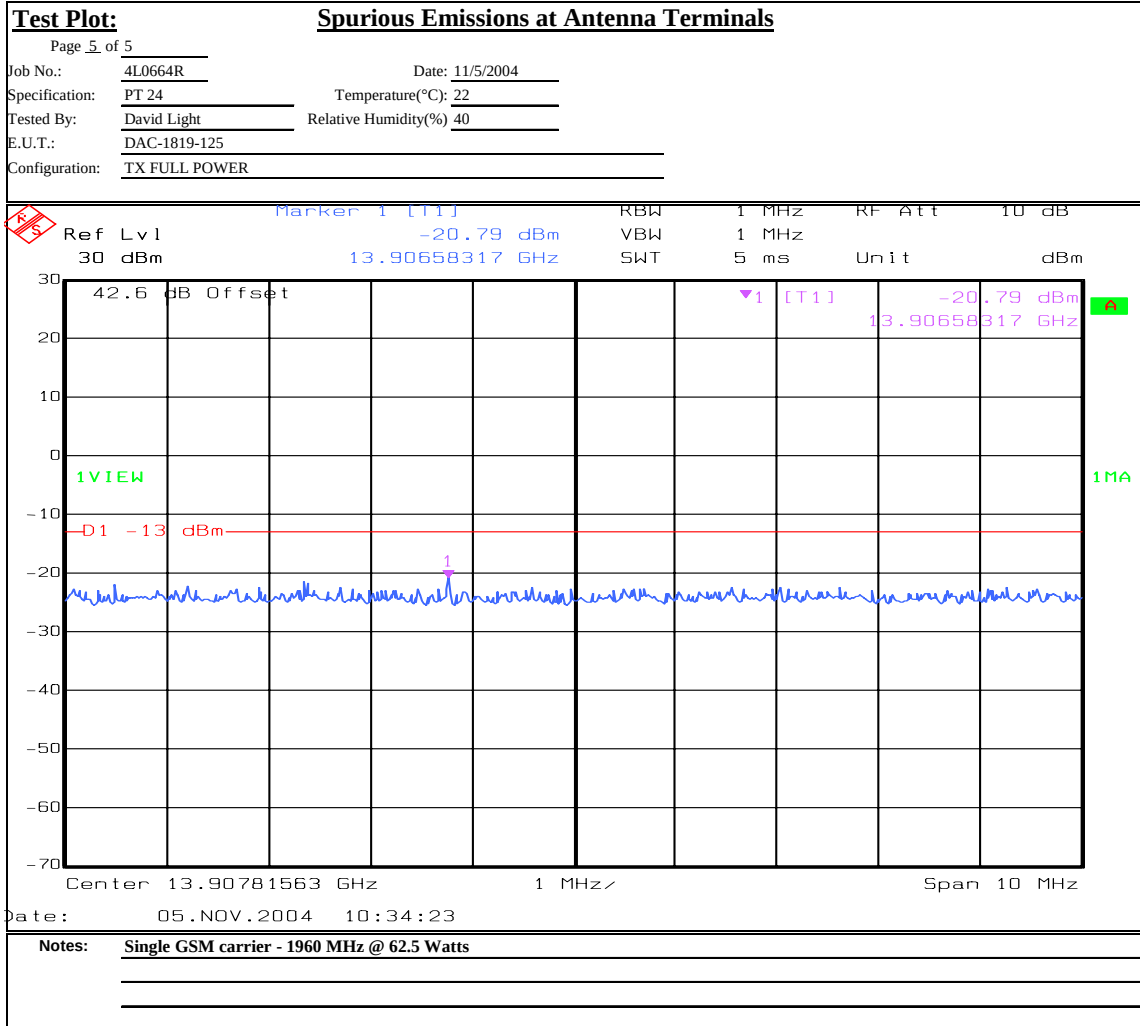


EQUIPMENT: DAC-1819-125

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EQUIPMENT: DAC-1819-125

Test Data – Spurious Emissions at Antenna Terminals



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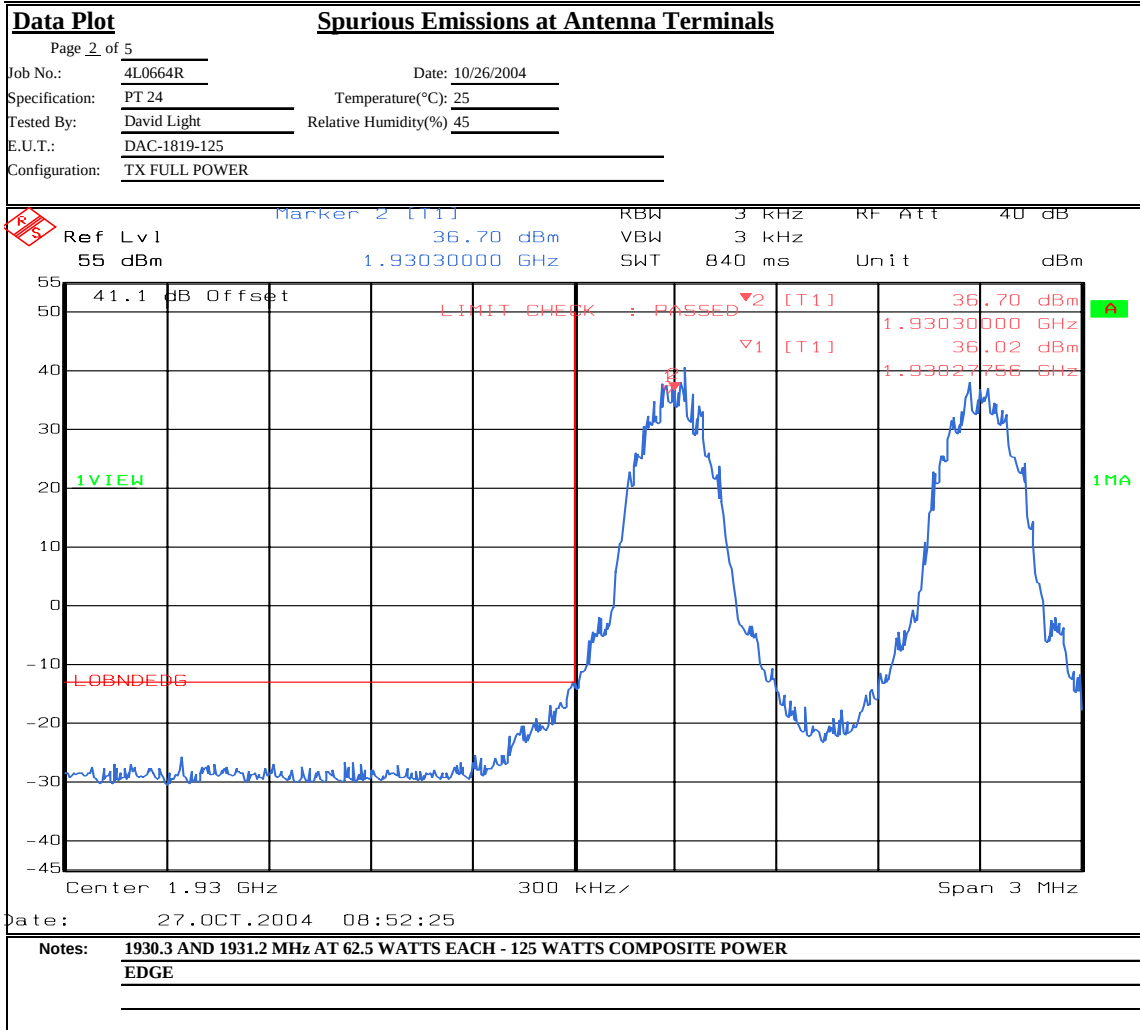
Data Plot		Spurious Emissions at Antenna Terminals	
Page 1 of 5		Complete <u>X</u>	
Job No.: 4L0664R	Date: 10/26/2004	Preliminary: _____	
Specification: PT 24	Temperature(°C): 25		
Tested By: David Light	Relative Humidity(%): 45		
E.U.T.: DAC-1819-125			
Configuration: TX FULL POWER			
Sample Number: 1			
Location: Lab 1	RBW: 3 kHz	Measurement	
Detector Type: Peak	VBW: 3 kHz	Distance: <u>NA</u> m	
Test Equipment Used			
Antenna: _____	Directional Coupler: 1055		
Pre-Amp: _____	Cable #1: 1626		
Filter: _____	Cable #2: _____		
Receiver: 1036	Cable #3: _____		
Attenuator #1: 1064	Cable #4: _____		
Attenuator #2: _____	Mixer: _____		
Additional equipment used: _____			
Measurement Uncertainty: +/-1.7 dB			
Ref Lvl 55 dBm Marker 1 [T1] 21.95 dBm RBW 3 kHz RF Att 40 dB Unit dBm			
55 dBm 1.93019900 GHz VBW 3 kHz SWT 5 s Unit dBm			
Center 1.93 GHz 100 kHz/ Span 1 MHz			
Date: 27.OCT.2004 08:44:52			
Notes: EDGE			
1930.2 MHz @ 36.1 dBm OUTPUT			

EQUIPMENT: DAC-1819-125

Test Data – Spurious Emissions at Antenna Terminals

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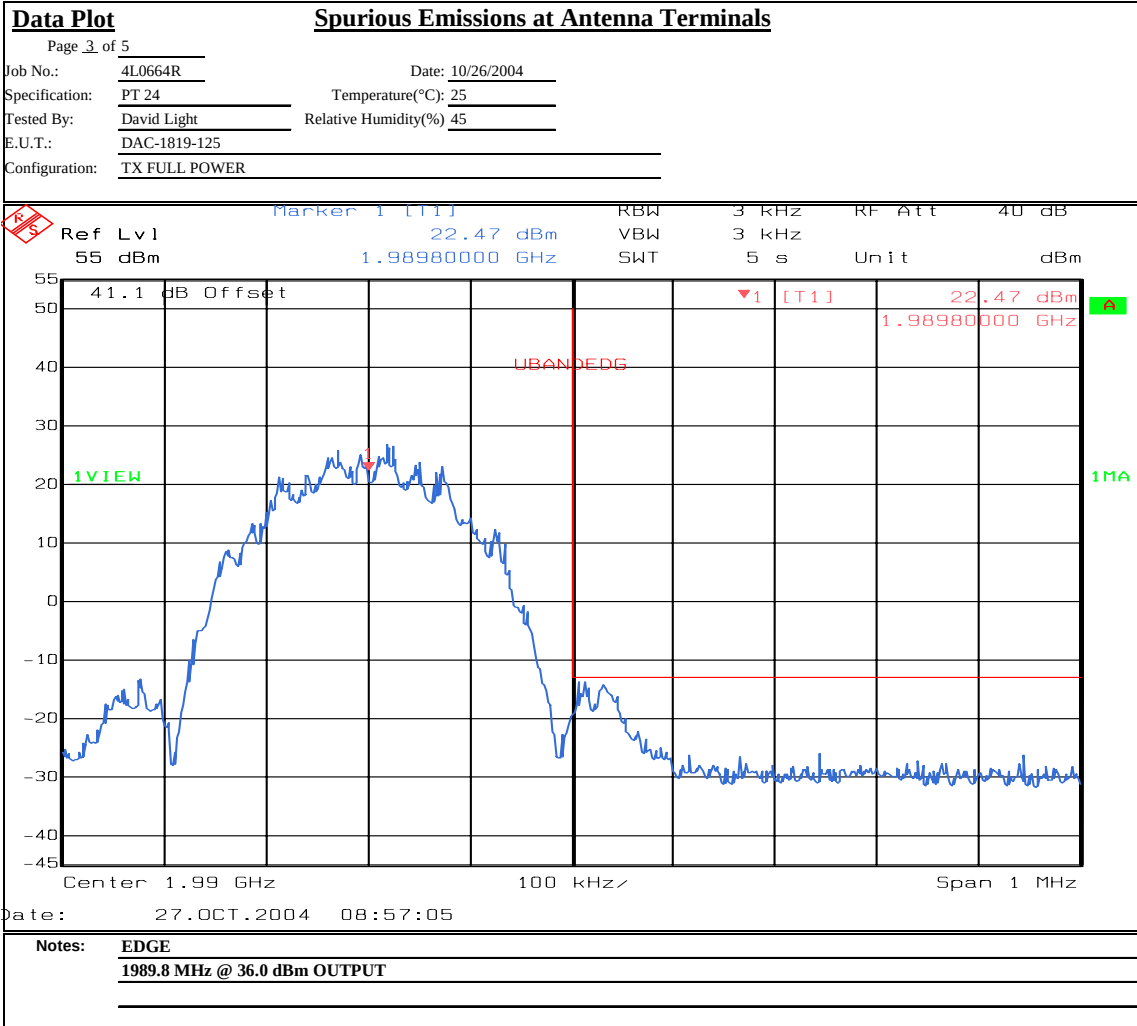
EQUIPMENT: DAC-1819-125

Test Data – Spurious Emissions at Antenna Terminals



Nemko Dallas, Inc.

Dallas Headquarters:

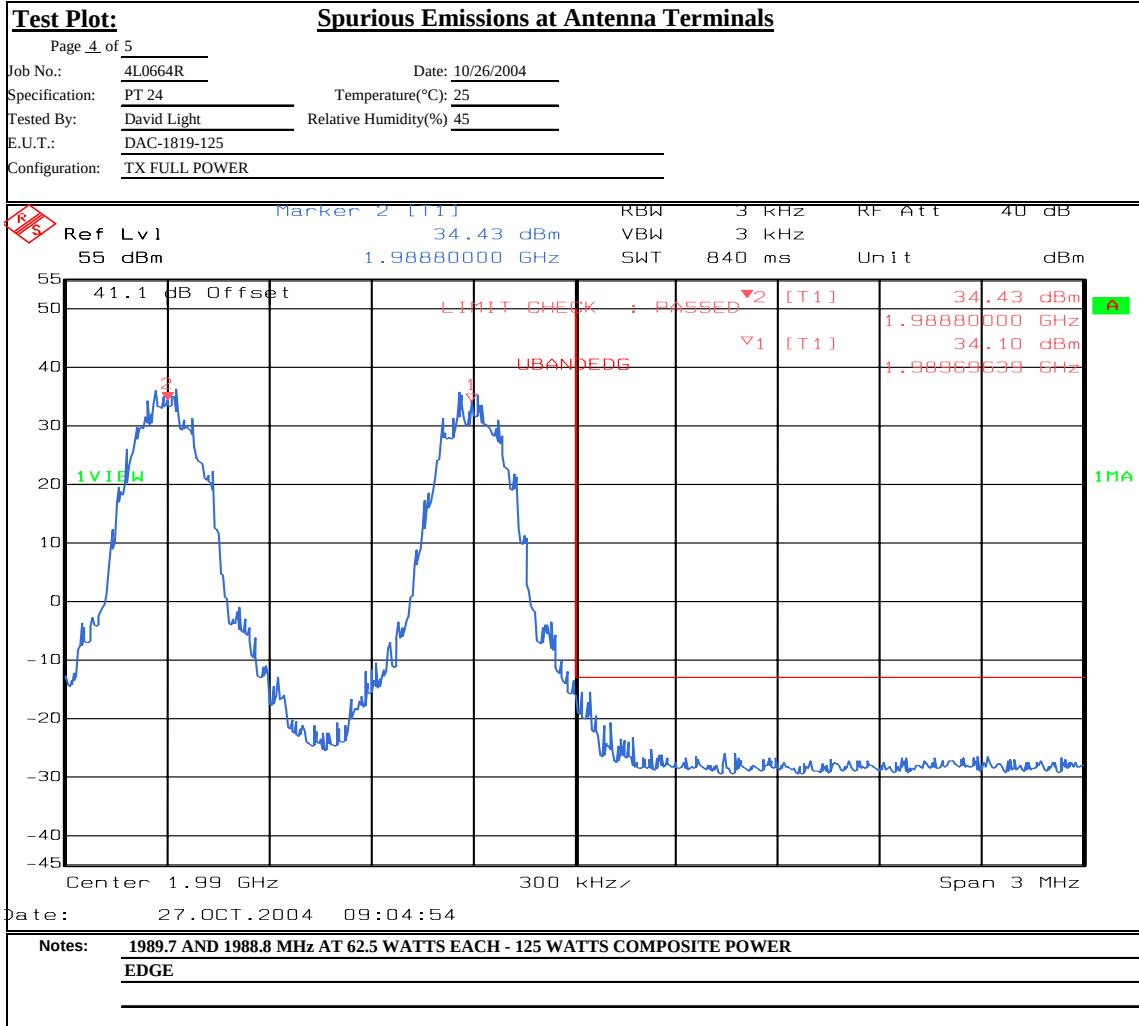
802 N. Kealy
Lewisville, TX 75057
Tel: (972) 436-9600
Fax: (972) 436-2667

EQUIPMENT: DAC-1819-125

Test Data – Spurious Emissions at Antenna Terminals

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Test Data – Spurious Emissions at Antenna Terminals



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Test Plot:

Page 5 of 5

Job No.:	4L0664R
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Date: 11/5/2004

Specification:	PT 24
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Temperature(°C): 22

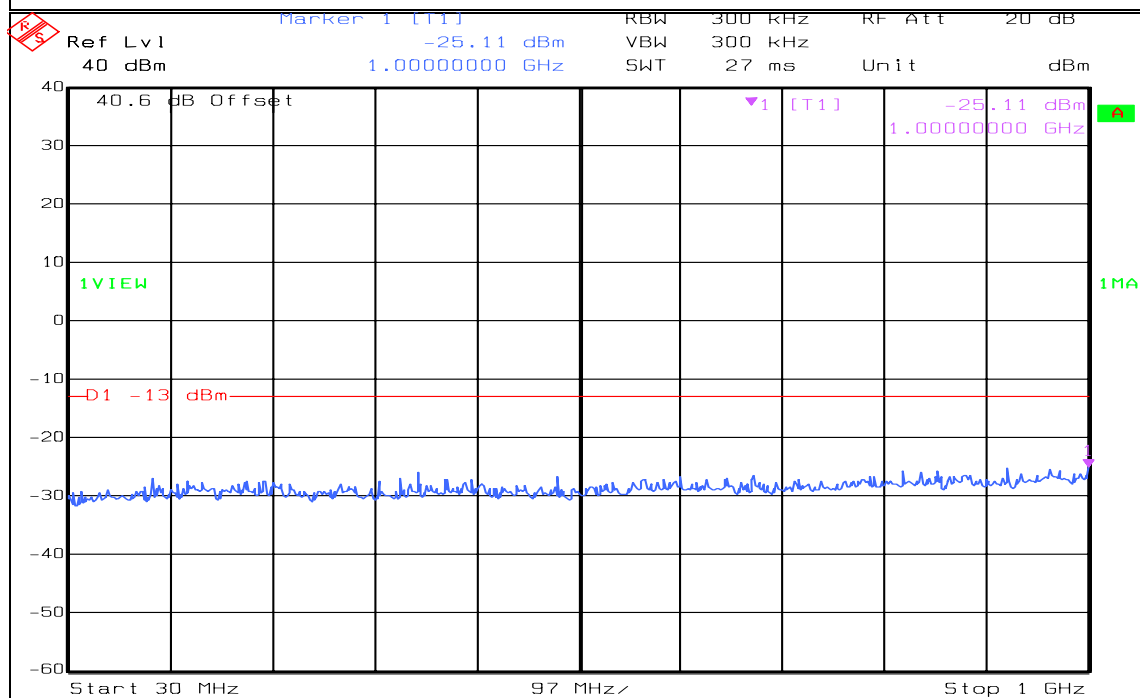
Tested By: David Light

Relative Humidity(%) 40

E.U.T.:	DAC-1819-125
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Configuration:	TX FULL POWER
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Spurious Emissions at Antenna Terminals



Date: 05.NOV.2004 10:25:06

Notes: TX 62.5 WATTS AT 1960 MHz
EDGE

Test Data – Spurious Emissions at Antenna Terminals



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Test Plot:

Page 5 of 5

Job No.:	4L0664R
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Date: 11/5/2004

Specification:	PT 24
----------------	-------

Temperature(°C): 22

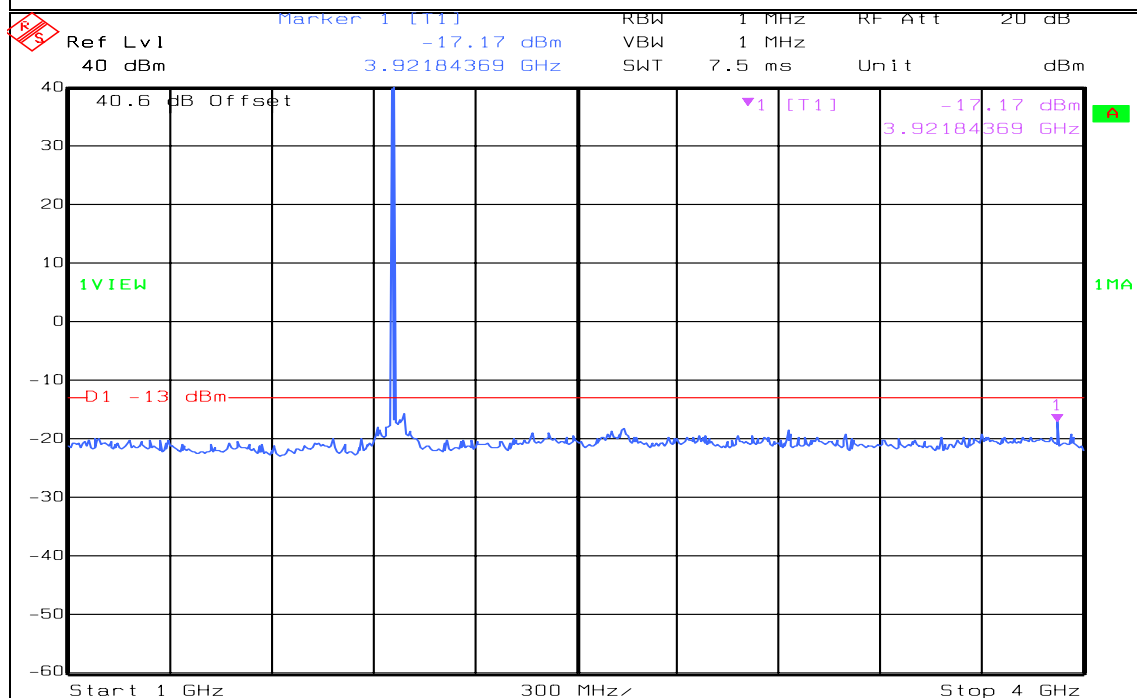
Tested By:	David Light
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Relative Humidity(%) 40

E.U.T.:	DAC-1819-125
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Configuration: TX FULL POWER

Spurious Emissions at Antenna Terminals



Date: 05.NOV.2004 10:21:44

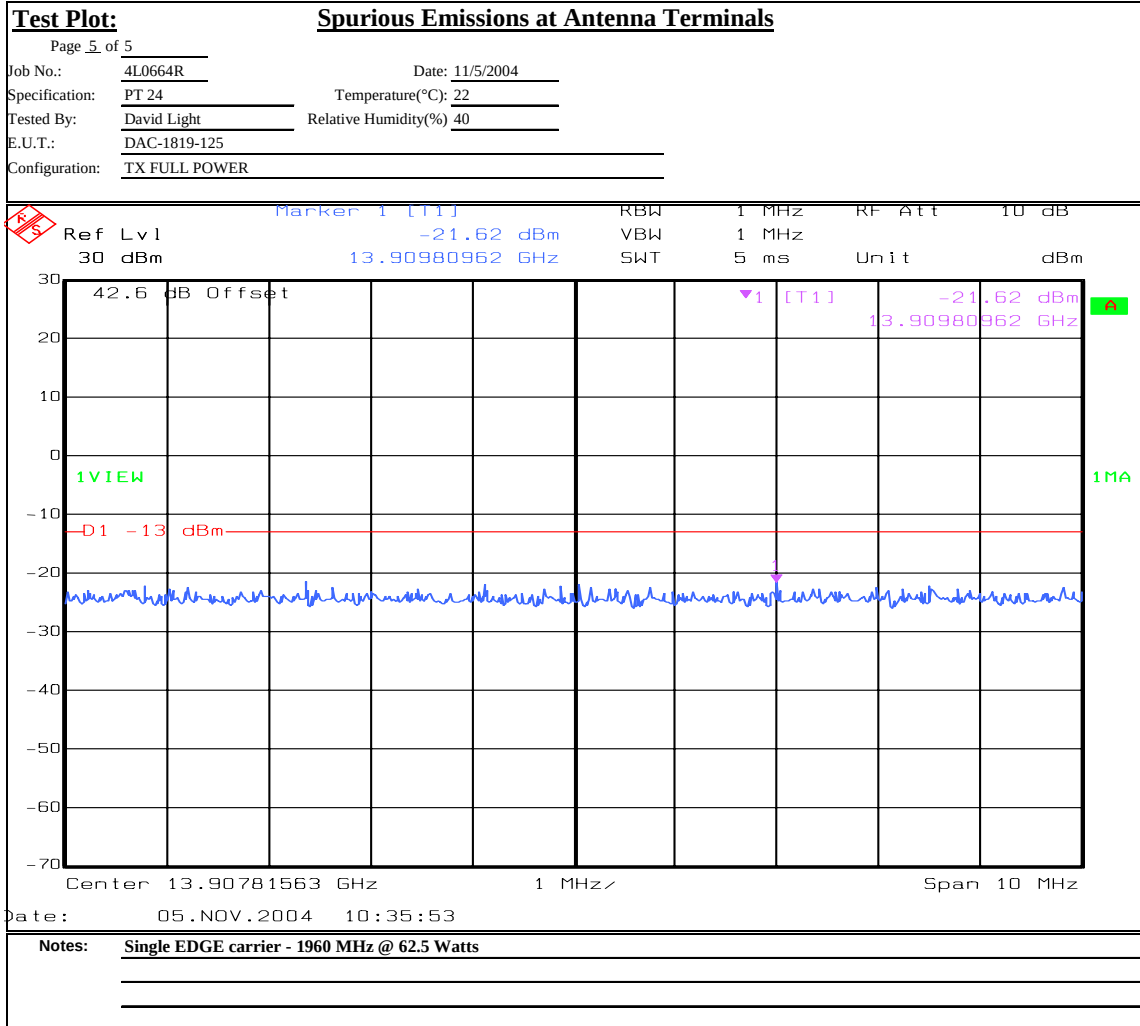
Notes: **Single EDGE carrier - 1960 MHz @ 62.5 Watts**

EQUIPMENT: DAC-1819-125

Test Data – Spurious Emissions at Antenna Terminals

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Fax: (972) 436-2667

Nemko Dallas, Inc.



Section 6. Field Strength of Spurious

NAME OF TEST: Field Strength of Spurious Emissions	PARA. NO.: 2.1051
TESTED BY: David Light	DATE: 10/27/04

Test Results: Complies.

Test Data: See attached table.

EQUIPMENT: DAC-1819-125**Test Data - Radiated Spurious Emissions**

Nemko Dallas, Inc.

Dallas Headquarters:802 N. Kealy
Lewisville, TX 75057
Tel: (972) 436-9600
Fax: (972) 436-2667**Field Strength of Spurious Emissions**

Page 1 of 1
 Job No.: 4L0664R Date: 10/27/04 Complete X
 Specification: PT24 Temperature(°C): 22 Preliminary _____
 Tested By: Tom Tidwell Relative Humidity(%) 45
 E.U.T.: DAC-1819-125
 Configuration: TX FULL POWER AT BAND CENTER
 Sample No: 1
 Location: AC 3 RBW: 1 MHz Measurement
 Detector Type: Peak VBW: 1 MHz Distance: 3 m

Test Equipment Used

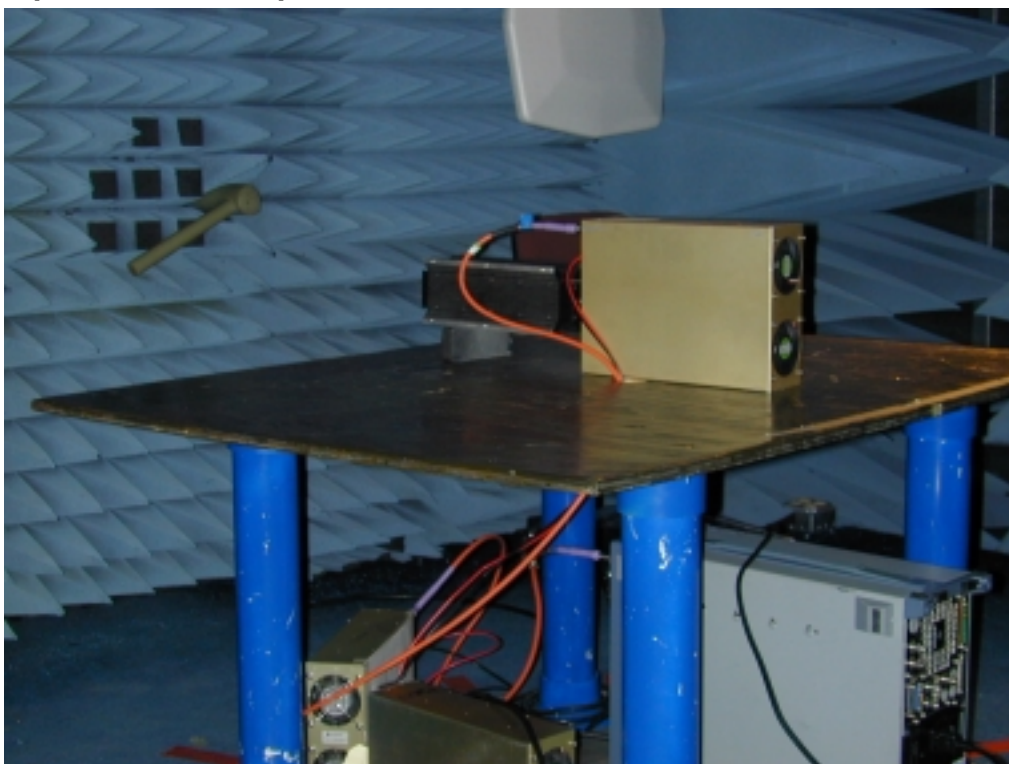
Antenna: 1304 Directional Coupler: _____
 Pre-Amp: 1016 Cable #1: 1485
 Filter: 1482 Cable #2: 1484
 Receiver: 1036 Cable #3: _____
 Attenuator #1: _____ Cable #4: _____
 Attenuator #2: _____ Mixer: _____
 Additional equipment used: _____
 Measurement Uncertainty: +/-1.7 dB

Frequency (MHz)	Meter Reading (dBm)	Correction Factor (dB)		Pre-Amp Gain (dB)	Substitution Antenna Gain (dBi)	Limit (dBm)	EIRP (dBm)	EIRP (mW)	Polarity	Comments
3920	-32.9	40.4		33	10.1	-13	-15.4	0.03	V	
5880	-35.7	38.5		31.9	11.2	-13	-17.9	0.02	V	
7840	-38.7	40.4		32.9	11.6	-13	-19.6	0.01	V	
13720	-58.2	47.6		32.8	12.6	-13	-30.8	0.00	V	
3920	-36.0	34.3		33	8.0	-13	-26.7	0.00	H	
5880	-31.7	36.0		31.9	9.1	-13	-18.5	0.01	H	
7840	-36.8	39.8		32.9	9.4	-13	-20.5	0.01	H	
9800	-50.0	42.6		34.5	10.5	-13	-31.4	0.00	H	
13720	-59.0	50.8		32.8	10.4	-13	-30.6	0.00	H	

Notes: _____

The spectrum was searched from 30 MHz to 20 GHz. All detected emissions were reported.

Photographs of Test Setup



EQUIPMENT: DAC-1819-125**Section 7. Test Equipment List**

Nemko ID	Description	Manufacturer Model Number	Serial Number	Calibration Date	Calibration Due
1484	Cable 2.0-18.0 Ghz	Storm PR90-010-072	N/A	08/26/04	08/26/05
1485	Cable 2.0-18.0 Ghz	Storm PR90-010-216	N/A	08/02/04	08/02/05
1464	Spectrum analyzer	Hewlett Packard 8563E	3551A04428	07/30/04	07/31/06
1016	Pre-Amp	HEWLETT PACKARD 8449A	2749A00159	10/27/03	10/26/04
1304	HORN ANTENNA	ELECTRO METRICS RGA-60	6151	09/22/03	09/22/05
1482	Band Pass Filter	K & L 11SH10-4000/T12000-0/0	2	Cal B4 Use	N/A
1036	SPECTRUM ANALYZER	ROHDE & SCHWARZ FSEK30	830844/006	03/22/04	03/23/06
1064	ATTENUATOR	NARDA 776B-20	NONE	CBU	N/A
1055	DUAL DIRECTIONAL COUPLER	NARDA 3022	73393	CBU	N/A
1054	DUAL DIRECTIONAL COUPLER	NARDA 3020A	34366	CBU	N/A
1058	DUAL DIRECTIONAL COUPLER	HEWLETT PACKARD 11692D	1212A03366	CBU	N/A
759	ANTENNA, LOG PERIODIC	A.H. SYSTEMS SAS-200/510	556	07/23/04	07/23/05
791	PREAMP, 25dB	ICC LNA25	398	10/27/03	10/27/04
1195	ANTENNA,BICONICAL	A.H. SYSTEMS SAS-200/542	235	07/09/04	07/09/05
1983	CABLE	KTL Site A OATS	N/A	03/11/04	03/11/05
1626	CABLE, 5 ft	MEGAPHASE 10311 1GVT4	N/A	CBU	N/A

ANNEX A - TEST DETAILS

NAME OF TEST: RF Power Output

PARA. NO.: 2.1046

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:

Detachable Antenna:

The peak power at antenna terminals is measured using an in-line peak power meter. Power output is measured with the maximum rated input level.

NAME OF TEST: Occupied Bandwidth**PARA. NO.: 2.1047**

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

Spectrum analyzer settings:

RBW: 30 kHz

VBW: $\geq$ RBW

Span: 5 MHz

Sweep: Auto

Mask: Set markers to -26 dB from peak of CW.

GSM

RBW: 3 kHz

VBW: $\geq$ RBW

Span: 2 MHz

Sweep: Auto

Mask: Set markers to -26 dB from peak of CW.

NADC

RBW: 1 kHz

VBW: $\geq$ RBW

Span: 1 MHz

Sweep: Auto

Mask: Set markers to -26 dB from peak of CW.

EQUIPMENT: DAC-1819-125

NAME OF TEST: Spurious Emission at Antenna
Terminals

PARA. NO.: 2.1051

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

RBW: 1 MHz (> 1 MHz from Band Edge)
RBW: 30 kHz (< 1MHz from Band Edge)
VBW: $\geq$ RBW
Sweep: Auto
Video Avg: 6 Sweeps

GSM

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

NADC

RBW: 1 MHz (> 1 MHz from Band Edge)
RBW: 3 kHz (< 1 MHz from Band Edge)
VBW: $\geq$ 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.: 2.1053
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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:

The antenna substitution method was used. This method is described in EIA/TIA 603B.

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

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:

Frequency Stability With Voltage Variation

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

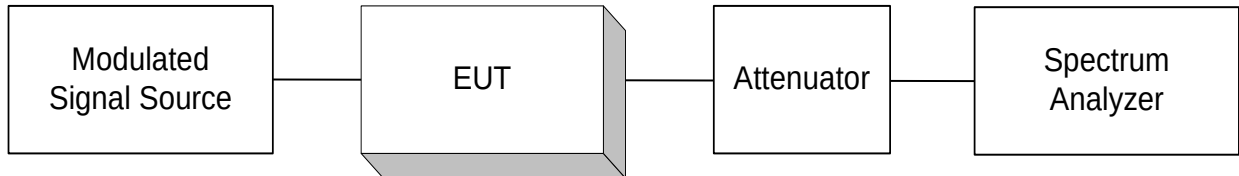
Frequency Stability With Temperature Variation

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

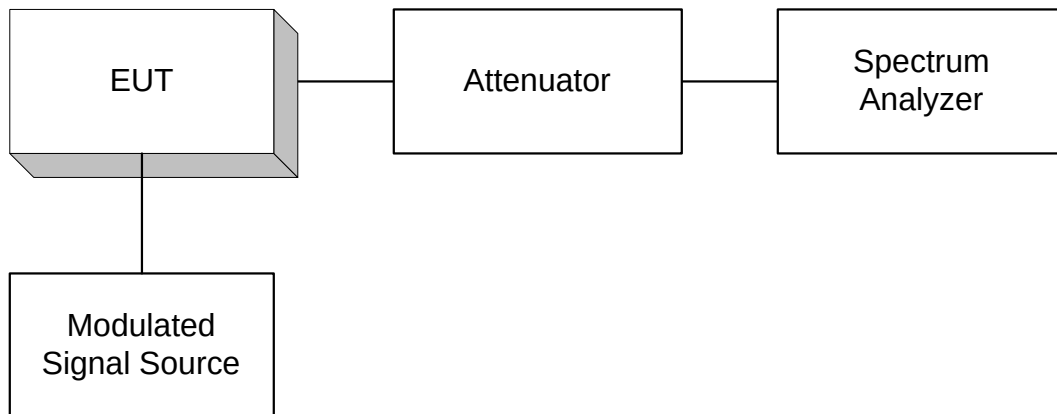
ANNEX B - TEST DIAGRAMS

EQUIPMENT: DAC-1819-125

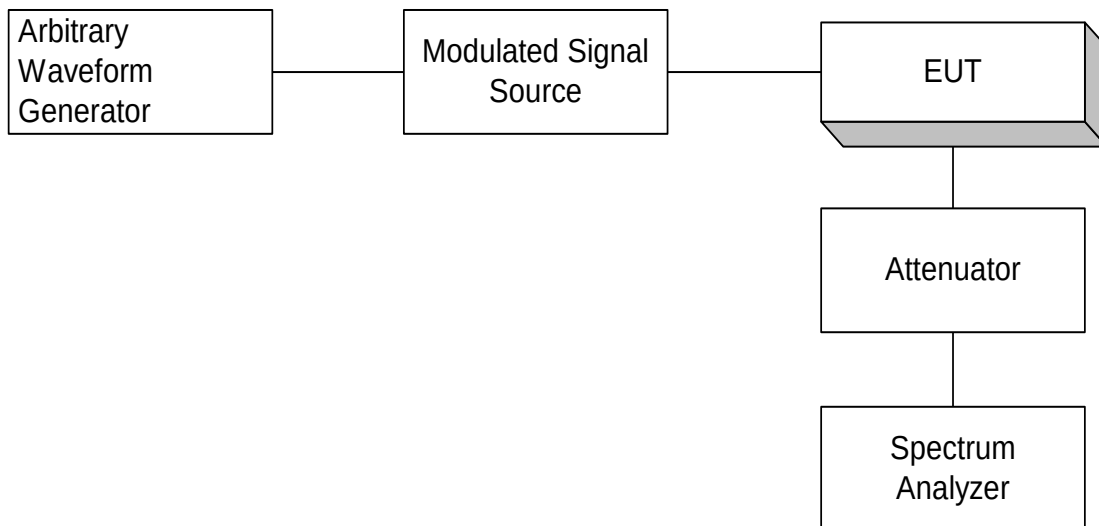
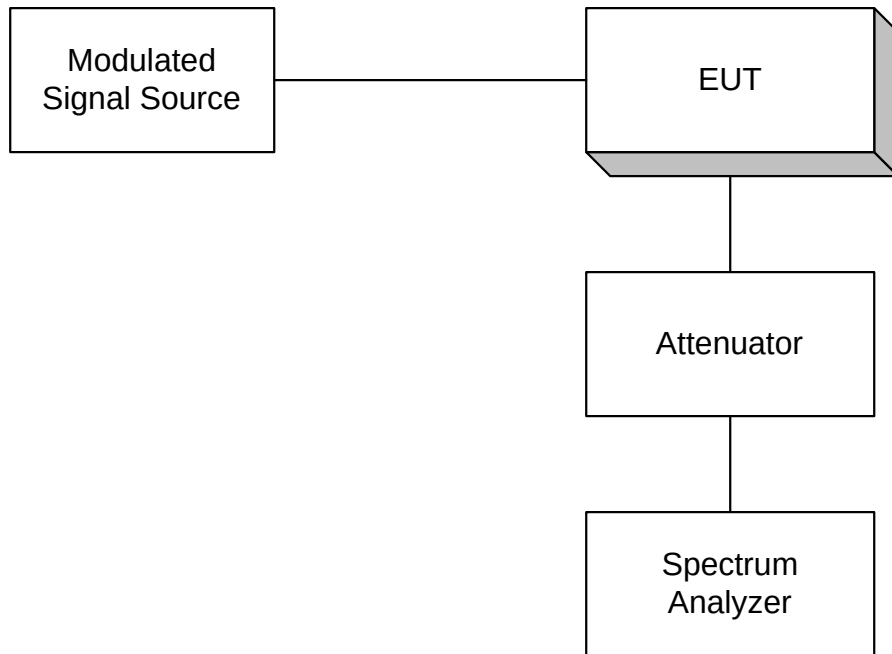
Para. No. 2.985 - R.F. Power Output



Para. No. 2.989 - Occupied Bandwidth

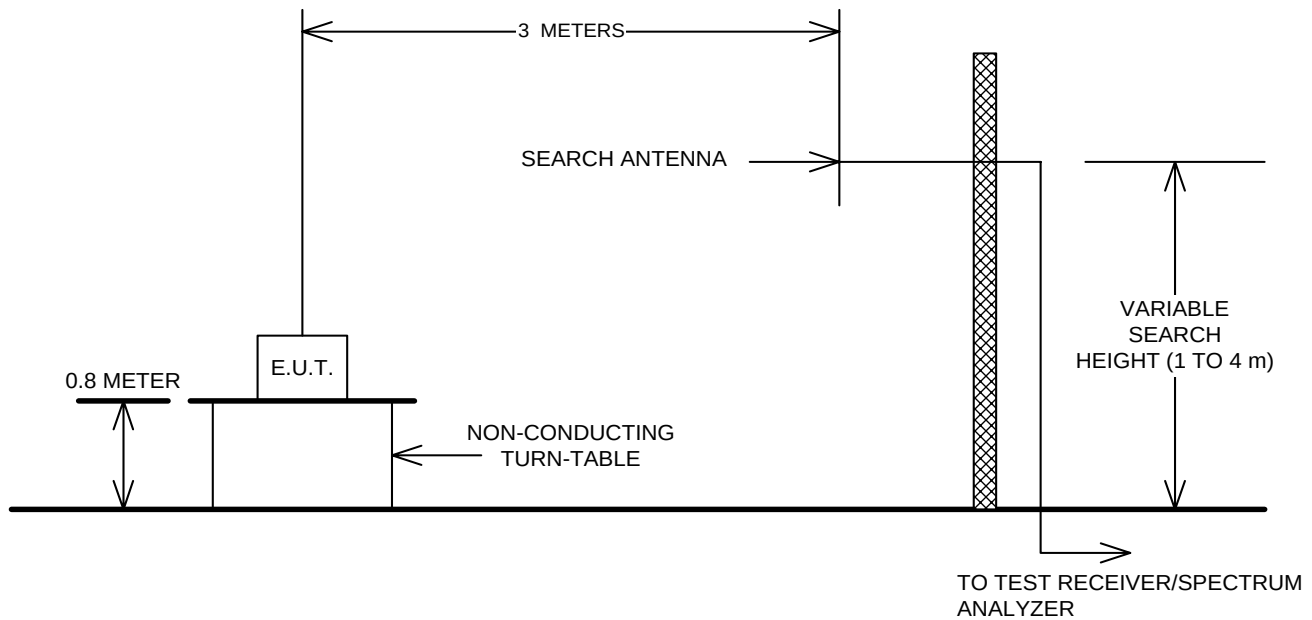


Para. No. 2.991 Spurious Emissions at Antenna Terminals



EQUIPMENT: DAC-1819-125

Para. No. 2.993 - Field Strength of Spurious Radiation



Para. No. 2.995 - Frequency Stability

