

Nemko Test Report: 2L0027RUS3

Applicant: Andrew Corporation
2601 Telecom Parkway
Richardson, TX 7508

**Equipment Under Test:
(E.U.T.)** Enhanced Remote Antenna Unit (ERAU)
Part No. AEO4A-D0602-001

In Accordance With: **FCC Part 90, Subpart I**
Private Land Mobile Repeater

Tested By: Nemko Dallas Inc.
802 N. Kealy
Lewisville, TX 75057-3136

Authorized By:



Tom Tidwell, Wireless Group Manager

Date: 3/22/02

Total Number of Pages: 38

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**EQUIPMENT: Enhanced Remote Antenna Unit
(ERAU)**

Section 1. Summary of Test Results

Manufacturer: Andrew Corporation

Model No.: Enhanced Remote Antenna Unit (ERAU)

Serial No.: None

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 90, Subpart I.



New Submission



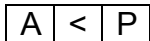
Production Unit



Class II Permissive Change



Pre-Production Unit



Equipment Code

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".

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**EQUIPMENT: Enhanced Remote Antenna Unit
(ERAU)**

Summary Of Test Data

NAME OF TEST	PARA. NO.	SPEC.	RESULT
RF Power Output	90.205		Complies
Audio Frequency Response	TIA EIA-603.3.2.6	N/A	N/A
Audio Low-Pass Filter Response	TIA EIA-603.3.2.6	N/A	N/A
Modulation Limiting	TIA EIA-603.3.2.6	N/A	N/A
Occupied Bandwidth	90.210	Plots	Complies
Spurious Emissions at Antenna Terminals	90.210	Plots	Complies
Field Strength of Spurious Emissions	90.210	-13 dBm	Complies
Frequency Stability	90.213	N/A	N/A
Transient Frequency Behavior	90.214	N/A	N/A

Footnotes For N/A's:

- (1) Since the E.U.T. does not contain modulation circuitry modulation testing was not performed.
- (2) Since the E.U.T. is not a keyed carrier system, Transient Frequency Behavior was not performed.

EQUIPMENT: Enhanced Remote Antenna Unit
(ERAU)

Section 2. General Equipment Specification

Transmitter

Supply Voltage Input: 40-70 Vdc**Frequency Range:** 851 to 869 MHz**Tunable Bands:** Full band coverage

Type(s) of Modulation:	F3E (Voice)	F1D	F2D	D7W (QAM)	Other
	☒	☐	☐	☒	☐

Maximum Input: 0 dBm**Output Impedance:** 50 ohms

RF Power Output (rated):	Single:	28.8 dBm (750 mW)
	Composite:	28.8 dBm (750 mW)

Operator Selection of Operating Frequency: Full band coverage**Power Output Adjustment Capability:** None

Frequency Translation:	F1-F1	F1-F2	N/A
	☒	☐	☐

Band Selection:	Software	Duplexer Change	Fullband Coverage
	☐	☐	☒

EQUIPMENT: Enhanced Remote Antenna Unit
(ERAU)

Description of Modifications For Class II Permissive Change

Not Applicable

Modifications Made During Testing

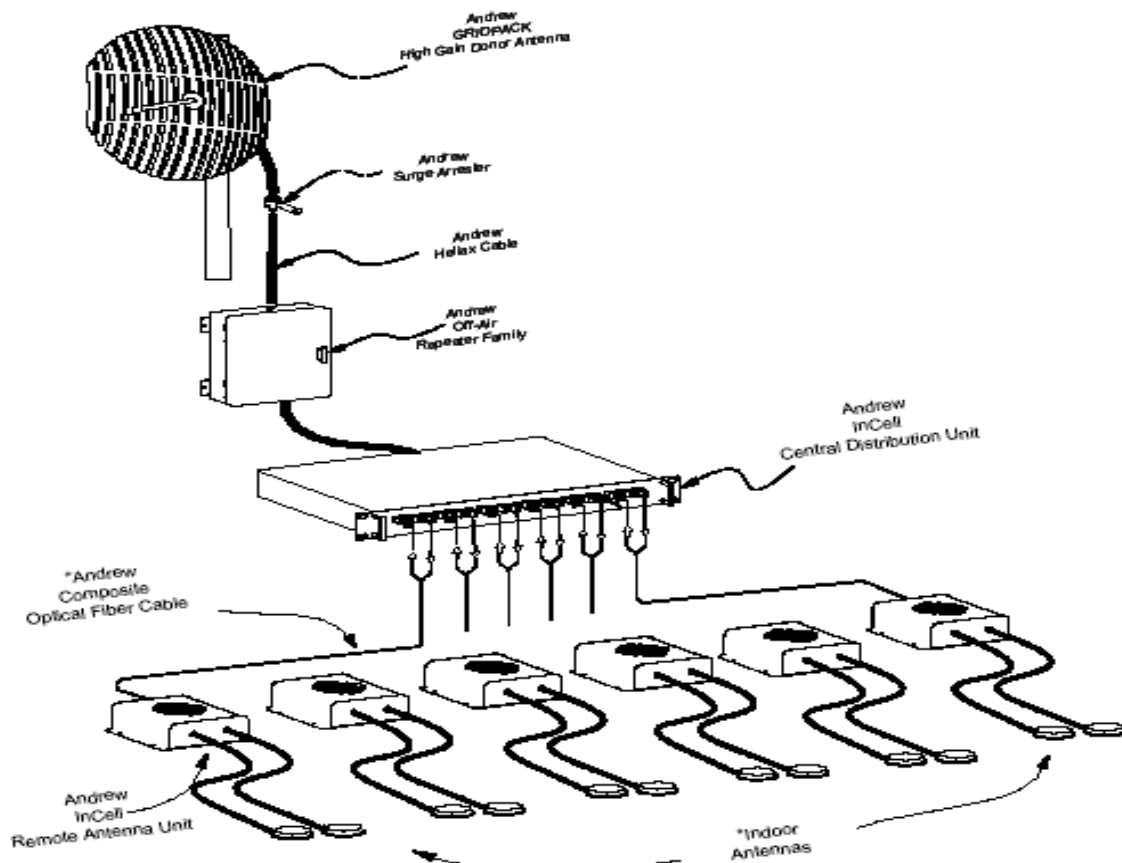
Not Applicable

EQUIPMENT: Enhanced Remote Antenna Unit
(ERAU)

Description of Operation

The Andrew InCell™ Fiber Distributed Antenna System is designed to provide improved RF performance in buildings that suffer from poor wireless coverage. The InCell™ interfaces directly with a BTS or off-air antenna and distributes RF signals to indoor antennas that provide improved downlink and uplink performance. The InCell™ system uses multiple Enhanced Remote Antenna Units (ERAU) located within the building to optimize communications with handheld mobile phones and wireless office equipment. Each ERAU is connected to a central distribution unit (CDU) by two low-loss, single mode fiber optic cables that provide downlink signals to the remote antenna and uplink signals from the mobile phone or wireless office equipment.

System Diagram



EQUIPMENT: Enhanced Remote Antenna Unit
(ERAU)**Section 3. RF Power Output**

NAME OF TEST: RF Power Output	PARA. NO.: 2.985
TESTED BY: David Light	DATE:3/19/2002

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

Frequency (MHz)	Measured Power (dBm)	Rated Power (dBm)	Measured/Rated (dB)
851.0125	28.8	28.8	1
860.9875	28.9	28.8	1
868.9875	28.7	28.8	1

Test 1036-1471-1478-1629
Equipment:Test Conditions:
Temperature: 22° C
e:

Humidity: 60% RH

Measurement +/- 1.7
Uncertainty dB

EQUIPMENT: Enhanced Remote Antenna Unit
(ERAU)

Section 4. Occupied Bandwidth

NAME OF TEST: Occupied Bandwidth	PARA. NO.: 2.989
TESTED BY: David Light	DATE: 3/19/2002

Test Results: Complies.

Test Data: See attached graph(s).

EQUIPMENT: Enhanced Remote Antenna Unit (ERAU)

Test Data – Occupied Bandwidth



Dallas Headquarters:

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

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Data Plot

Page 1 of 4

Job No.: 2L0027R

Date: 3/19/2002Complete X

Preliminary: _____

Specification: PT 90

Temperature(°C): 22

Tested By: David Light

Relative Humidity(%)	60
----------------------	----

E.U.T.:	DUAL BAND REPEATER
---------	--------------------

Configuration: TX FULL POWER

Sample Number: 1

Location:	Lab 1
-----------	-------

RBW: Refer to plots

Detector Type:	Refer to plot
----------------	---------------

VBW: Refer to plots

Measurement

Distance: N/A m

Test Equipment Used

Antenna:

Directional Coupler:

Pre-Amp: _____

Cable #1: 1627

Filter:

Cable #2:	1628
-----------	------

Receiver:	1036
-----------	------

Cable #3:	1629
-----------	------

Attenuator #1	1478
---------------	------

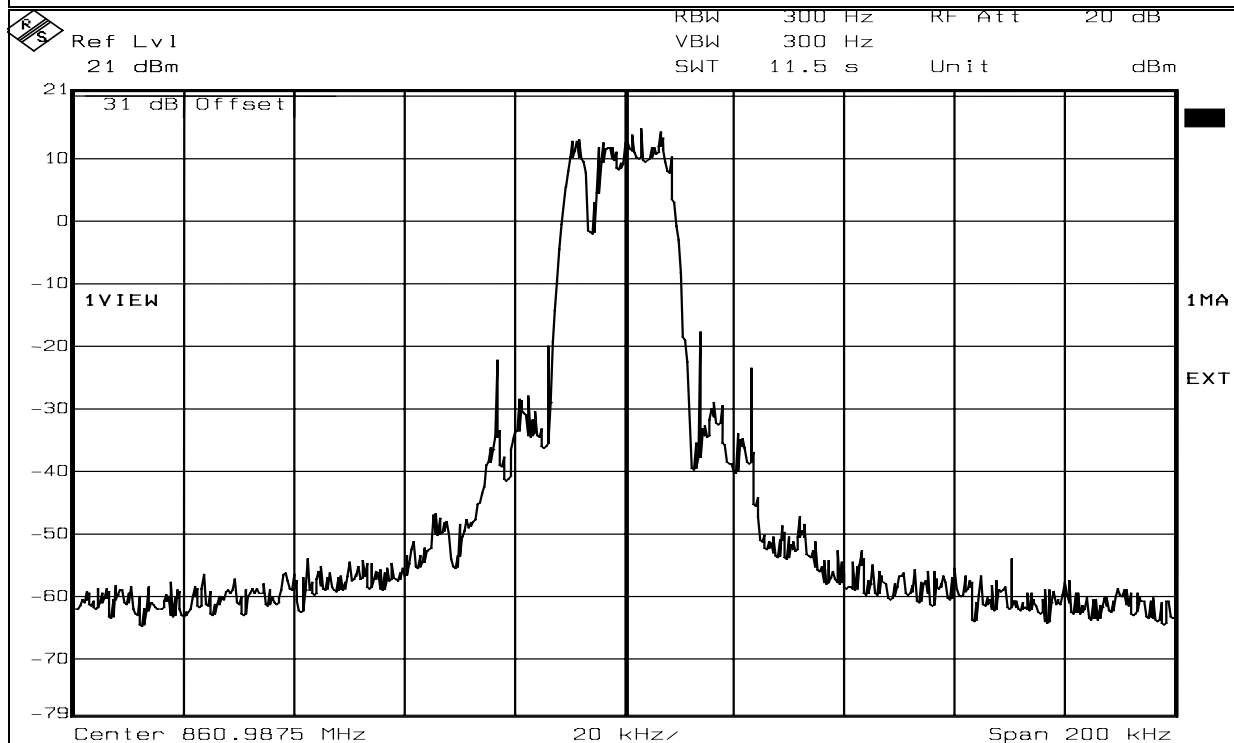
Cable #4:

Attenuator #2: 1471

Mixer: _____

Additional equipment used:

1051 1052 1053 1092



Date: 19.MAR.2002 09:12:31

Notes: **Output signal iDEN**

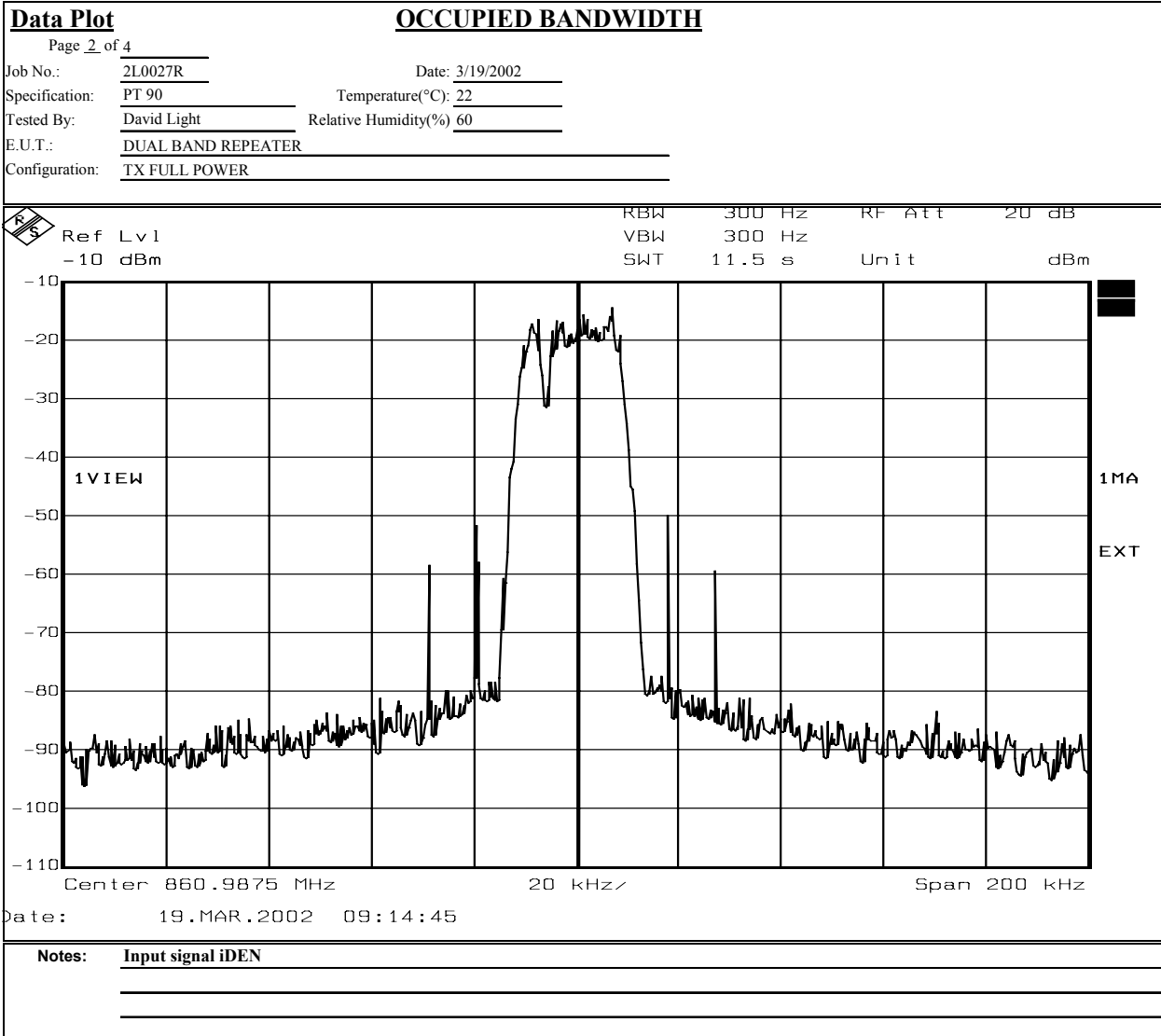
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Test Data – Occupied Bandwidth



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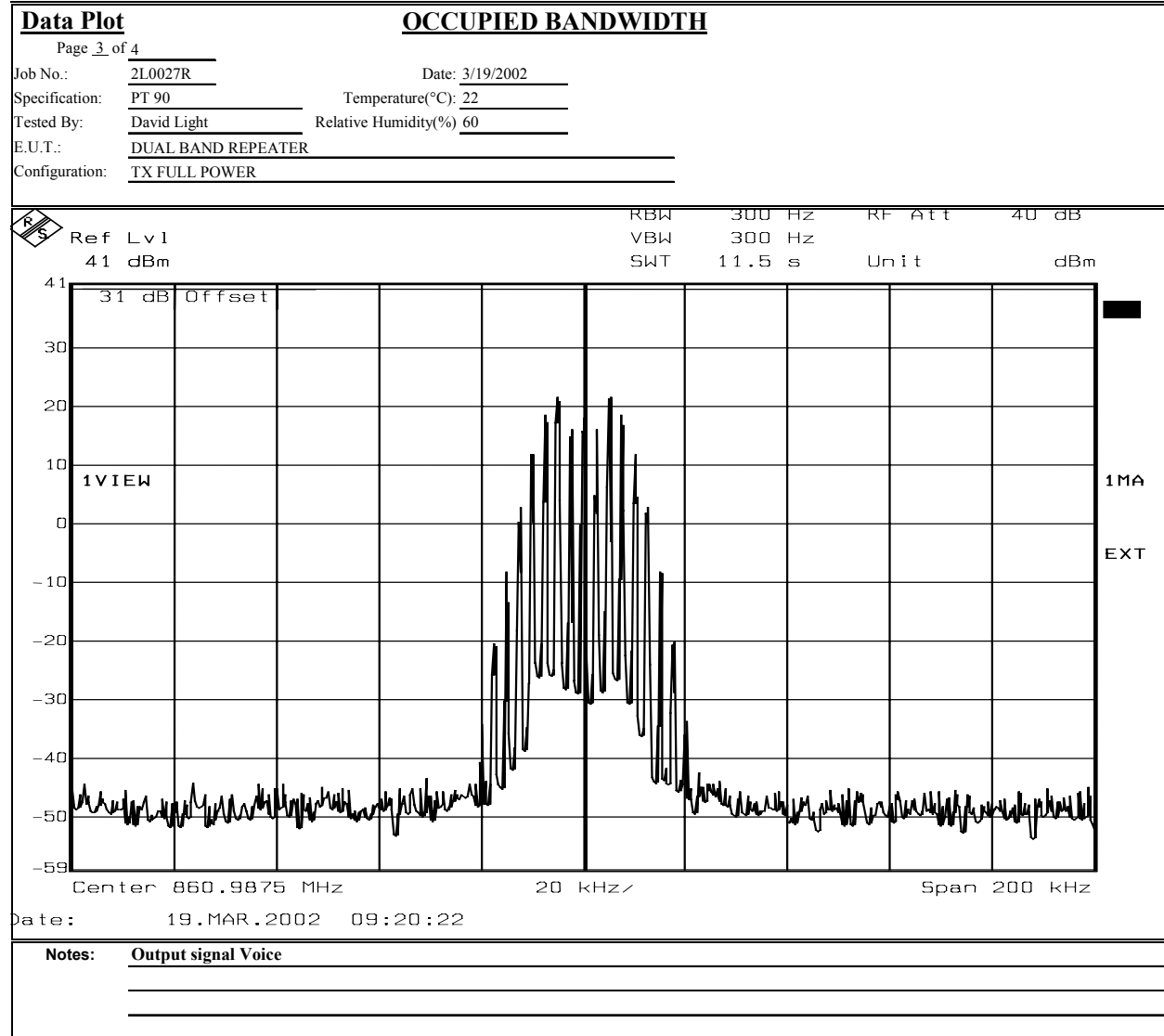
Test Data – Occupied Bandwidth



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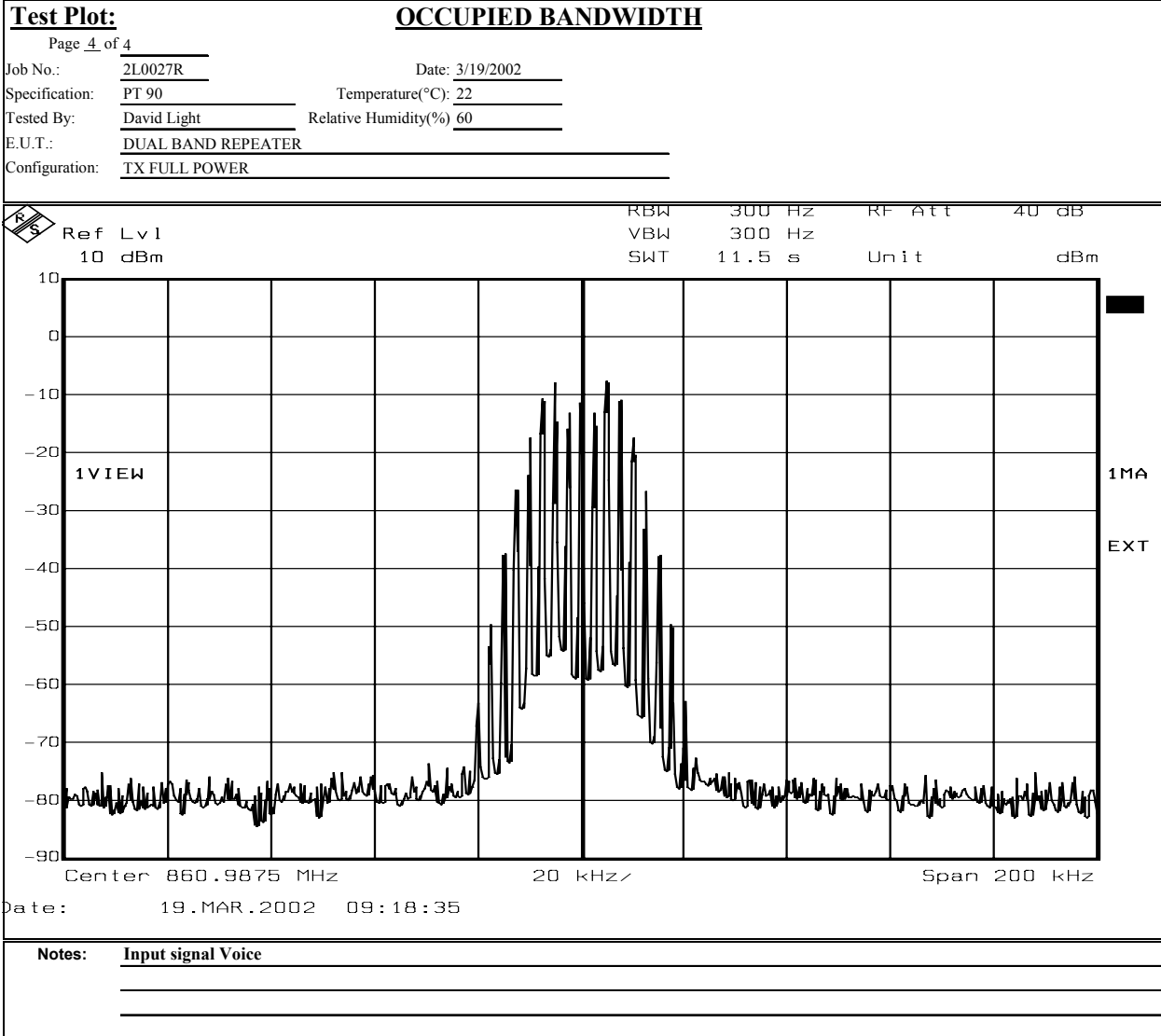
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Test Data – Occupied Bandwidth



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Section 5. Spurious Emissions at Antenna Terminals

NAME OF TEST: Spurious Emissions @ Antenna Terminals	PARA. NO.: 2.991
TESTED BY: David Light	DATE: 3/19/2002

Test Results: Complies.

Test Data: See attached graph(s).

Nemko Dallas

FCC PART 90, SUBPART I
PRIVATE LAND MOBILE REPEATER

EQUIPMENT: **Enhanced Remote Antenna Unit
(ERAU)**

PROJECT NO.: **2L0027RUS3**

EQUIPMENT: Enhanced Remote Antenna Unit
(ERAU)

Test Data – Spurious Emissions at Antenna Terminals



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Data Plot		ANTENNA PORT SPURIOUS EMISSIONS	
Page 1 of 4			
Job No.:	2L0027R	Date:	3/19/2002
Specification:	PT 90	Temperature(°C):	22
Tested By:	David Light	Relative Humidity(%):	50
E.U.T.:	DUAL BAND REPEATER		
Configuration:	TX FULL POWER		
Sample Number:	1		
Location:	Lab 1	RBW:	Refer to plots
Detector Type:	Peak	VBW:	Refer to plots
		Measurement Distance:	N/A m
Test Equipment Used			
Antenna:		Directional Coupler:	
Pre-Amp:		Cable #1:	1627
Filter:		Cable #2:	1628
Receiver:	1036	Cable #3:	1629
Attenuator #1:	1478	Cable #4:	
Attenuator #2:	1471	Mixer:	
Additional equipment used:	1051 1052 1053		1092
Measurement Uncertainty:	+/-1.7 dB		
Ref Lvl 40 dBm Marker 1 [T1] 29.49 dBm RBW 100 kHz RF Att 30 dB 40 dBm 860.04008016 MHz VBW 100 kHz Unit dBm SWT 245 ms			
Date: 19.MAR.2002 12:28:35			
Notes: iDEN			

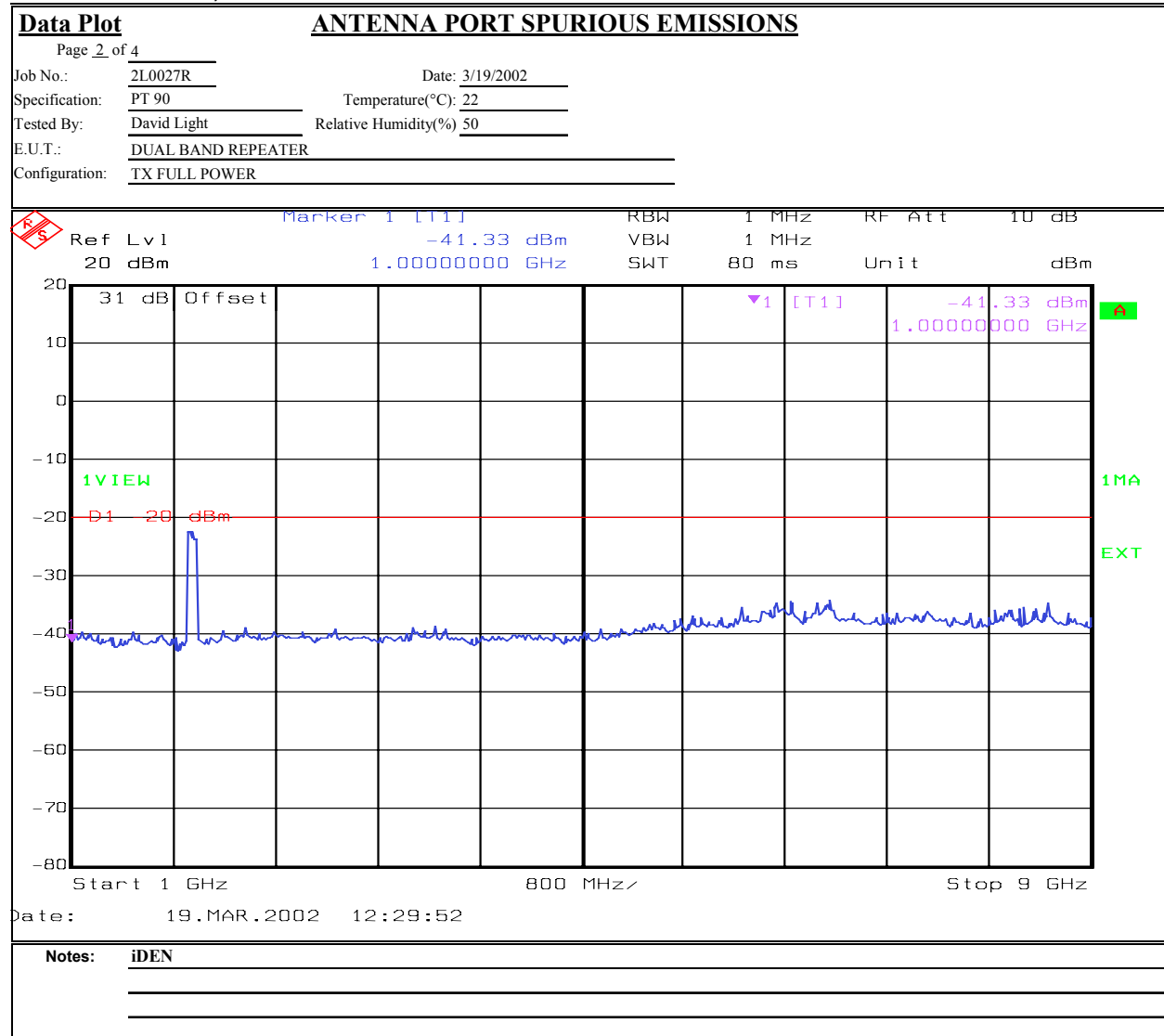
EQUIPMENT: Enhanced Remote Antenna Unit
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Test Data – Spurious Emissions at Antenna Terminals



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EQUIPMENT: Enhanced Remote Antenna Unit
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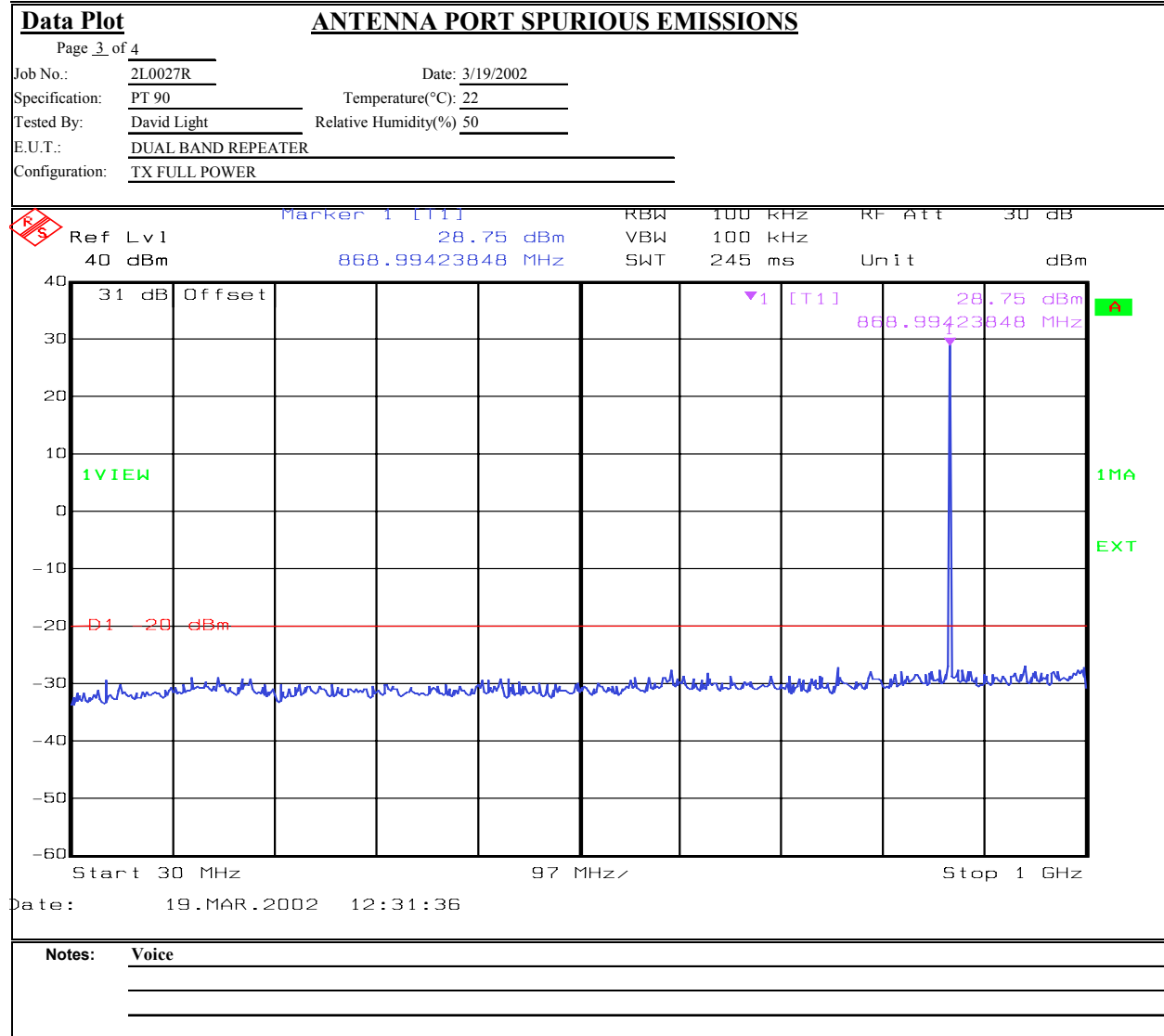
Test Data – Spurious Emissions at Antenna Terminals



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EQUIPMENT: Enhanced Remote Antenna Unit (ERAU)

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Test Data – Spurious Emissions at Antenna Terminals



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Test Plot:

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Job No.: 2L0027R

Date: 3/19/2002

Specification:	PT 90
----------------	-------

Temperature(°C): 22

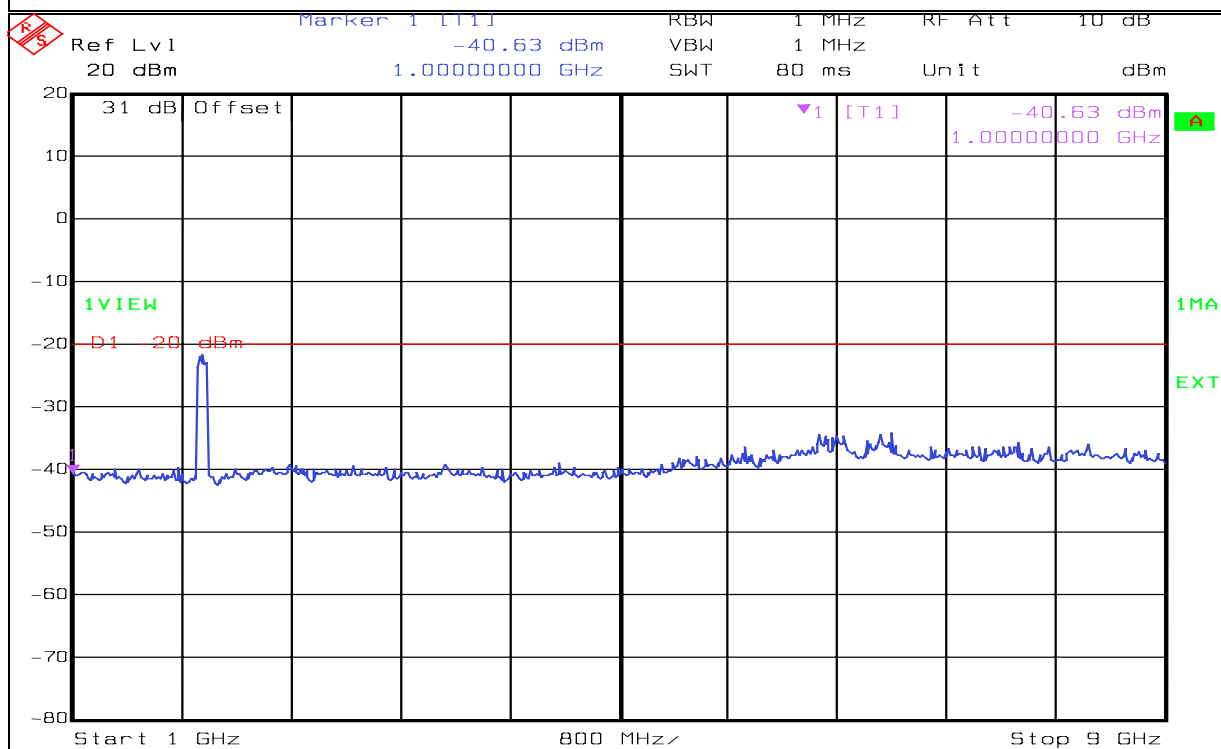
Tested By:	David Light
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Relative Humidity(%) 50

E.U.T.: DUAL BAND REPEATER

Configuration: TX FULL POWER

ANTENNA PORT SPURIOUS EMISSIONS



Date: 19.MAR.2002 12:32:31

Notes: Voice

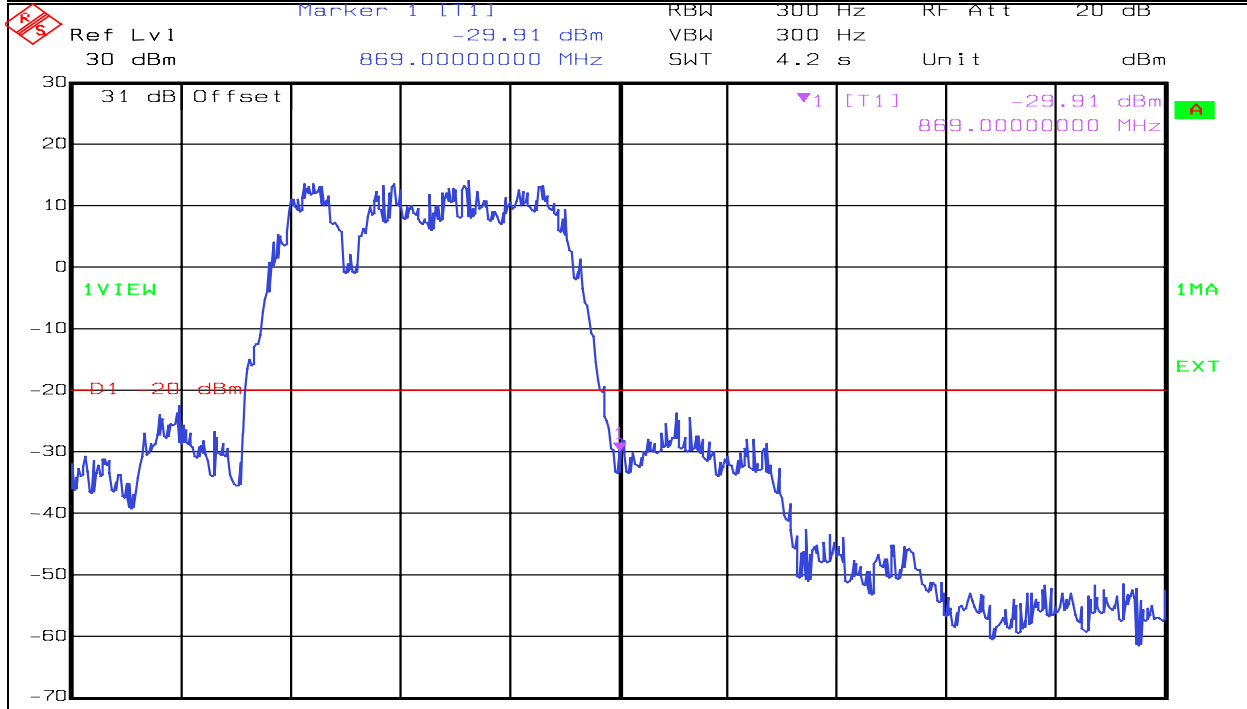
Test Data – Spurious Emissions at Antenna Terminals



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Data Plot		BANDEDGE PLOTS	
Page 1 of 2			
Job No.:	2L0027R	Date:	3/19/2002
Specification:	PT 90	Temperature(°C):	22
Tested By:	David Light	Relative Humidity(%)	60
E.U.T.:	DUAL BAND REPEATER		
Configuration:	TX FULL POWER		
Sample Number:	1		
Location:	Lab 1	RBW:	Refer to plots
Detector Type:	Peak	VBW:	Refer to plots
		Measurement Distance:	N/A m
Test Equipment Used			
Antenna:		Directional Coupler:	
Pre-Amp:		Cable #1:	1627
Filter:		Cable #2:	1628
Receiver:	1036	Cable #3:	1629
Attenuator #1:	1478	Cable #4:	
Attenuator #2:	1471	Mixer:	
Additional equipment used:	1051 1052 1053 1092		
Measurement Uncertainty:	+/-1.7 dB		
			
Date: 19.MAR.2002 11:16:11			
Notes: iDEN			

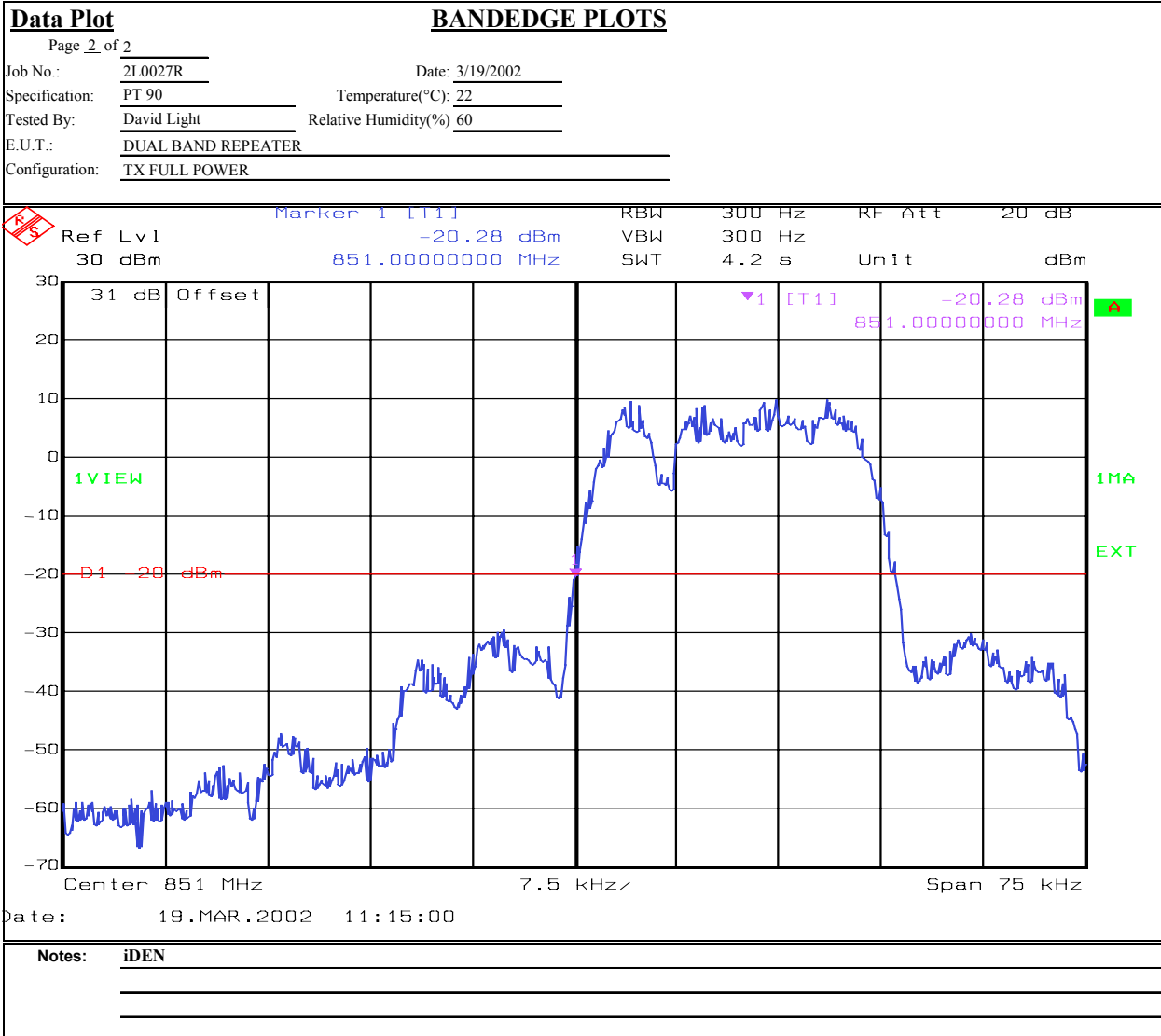
EQUIPMENT: Enhanced Remote Antenna Unit
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Test Data – Spurious Emissions at Antenna Terminals



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EQUIPMENT: Enhanced Remote Antenna Unit
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Test Data – Spurious Emissions at Antenna Terminals



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Data Plot		INTERMODULATION CHARACTERISTICS	
Page 1 of 4		Complete	X
Job No.: 2L0027R	Date: 3/19/2002	Preliminary:	
Specification: PT 90	Temperature(°C): 22		
Tested By: David Light	Relative Humidity(%): 60		
E.U.T.: DUAL BAND REPEATER			
Configuration: TX 2 CARRIERS			
Sample Number: 1			
Location: Lab 1	RBW: Refer to plots	Measurement	
Detector Type: Peak	VBW: Refer to plots	Distance: N/A	m
Test Equipment Used			
Antenna:	Directional Coupler:		
Pre-Amp:	Cable #1:	1627	
Filter:	Cable #2:	1628	
Receiver:	Cable #3:	1629	
Attenuator #1:	Cable #4:		
Attenuator #2:	Mixer:		
Additional equipment used:	1051	1052	1053
Measurement Uncertainty:	+/-1.7 dB		
Date: 19.MAR.2002 09:30:57			
Notes: Lower bandedge intermod - iDEN			
Marker 1 indicates highest out of band emission, Marker 2 indicates highest inband emission			

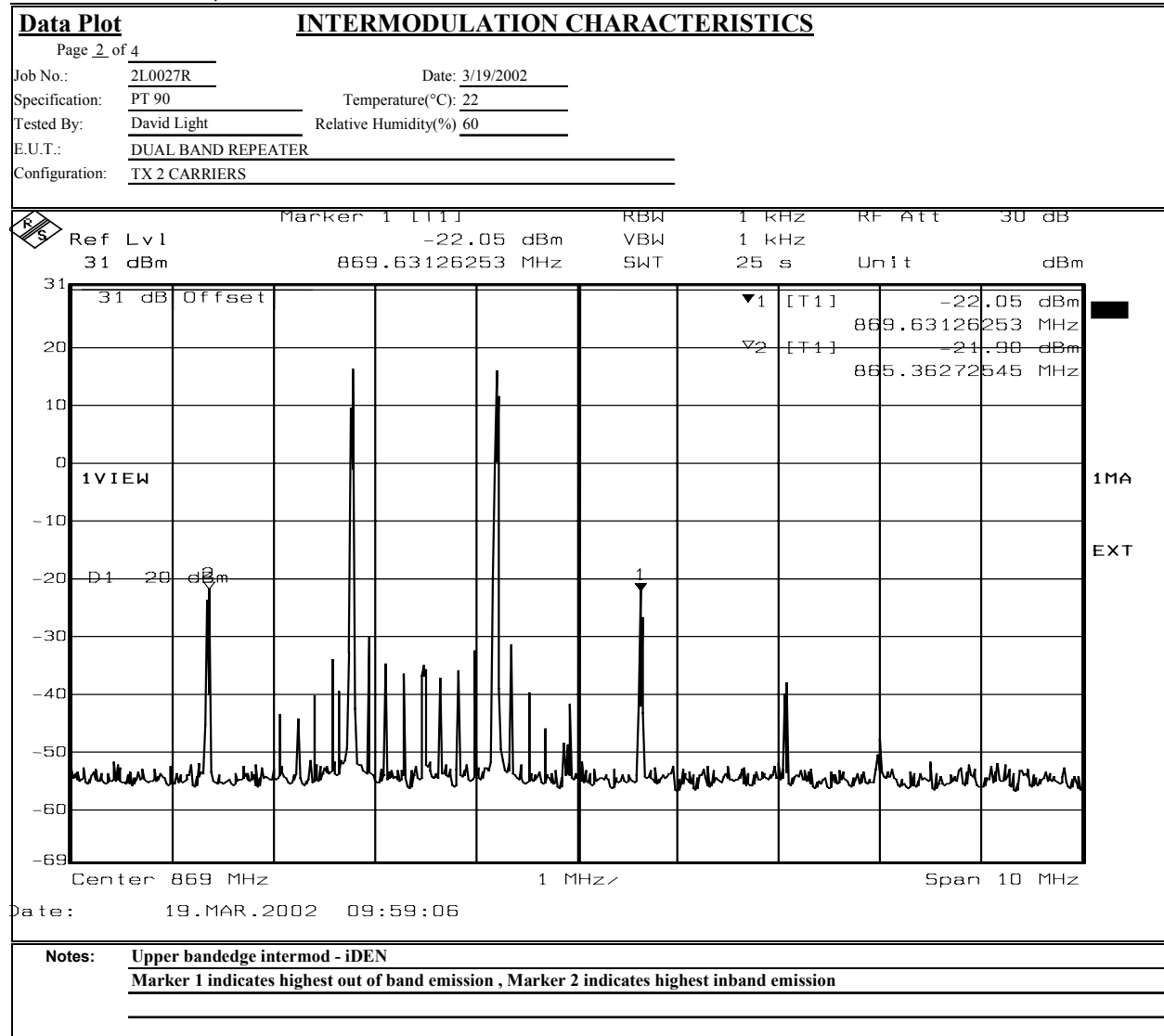
EQUIPMENT: Enhanced Remote Antenna Unit
(ERAU)

Test Data – Spurious Emissions at Antenna Terminals



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EQUIPMENT: Enhanced Remote Antenna Unit
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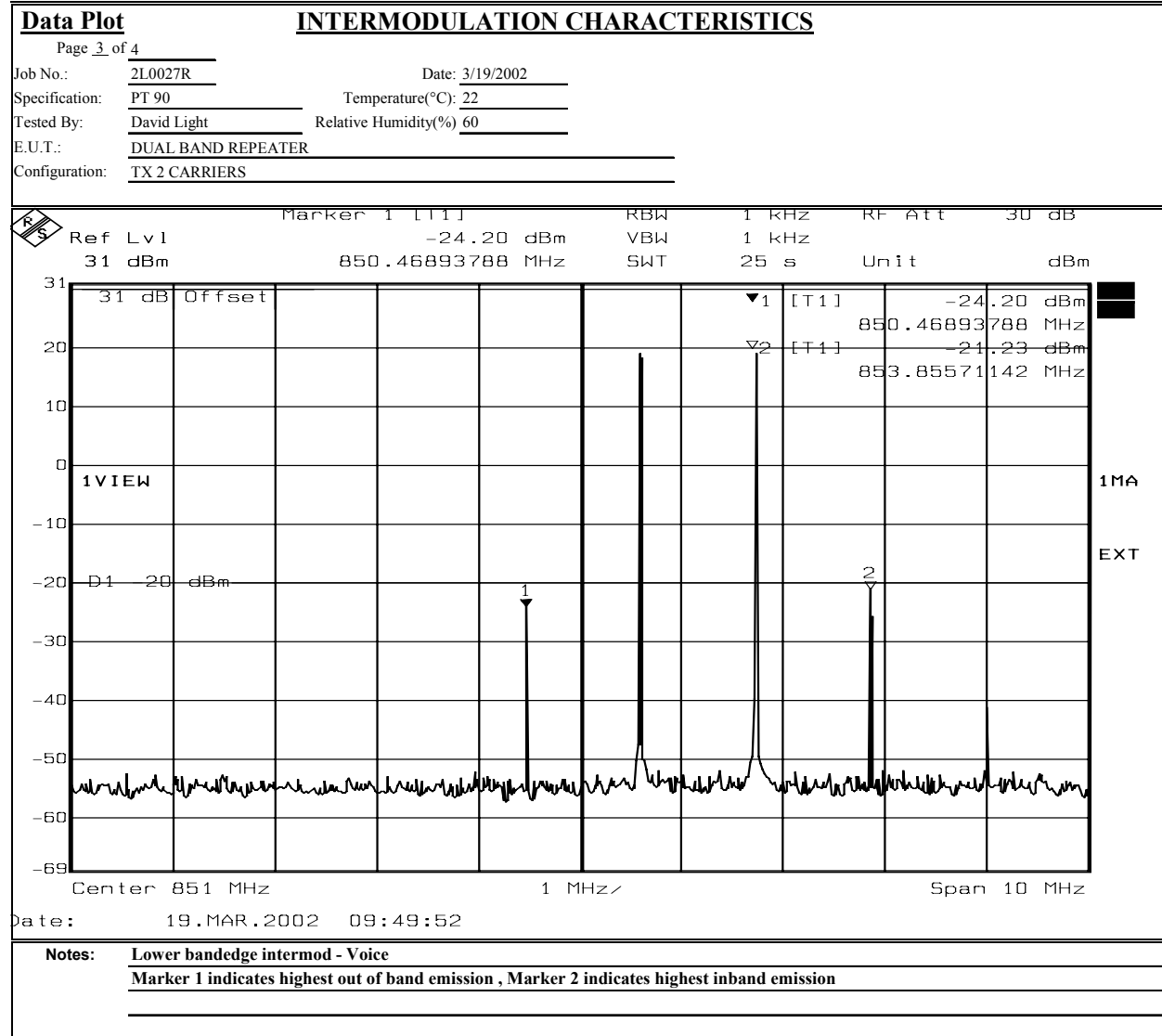
Test Data – Spurious Emissions at Antenna Terminals



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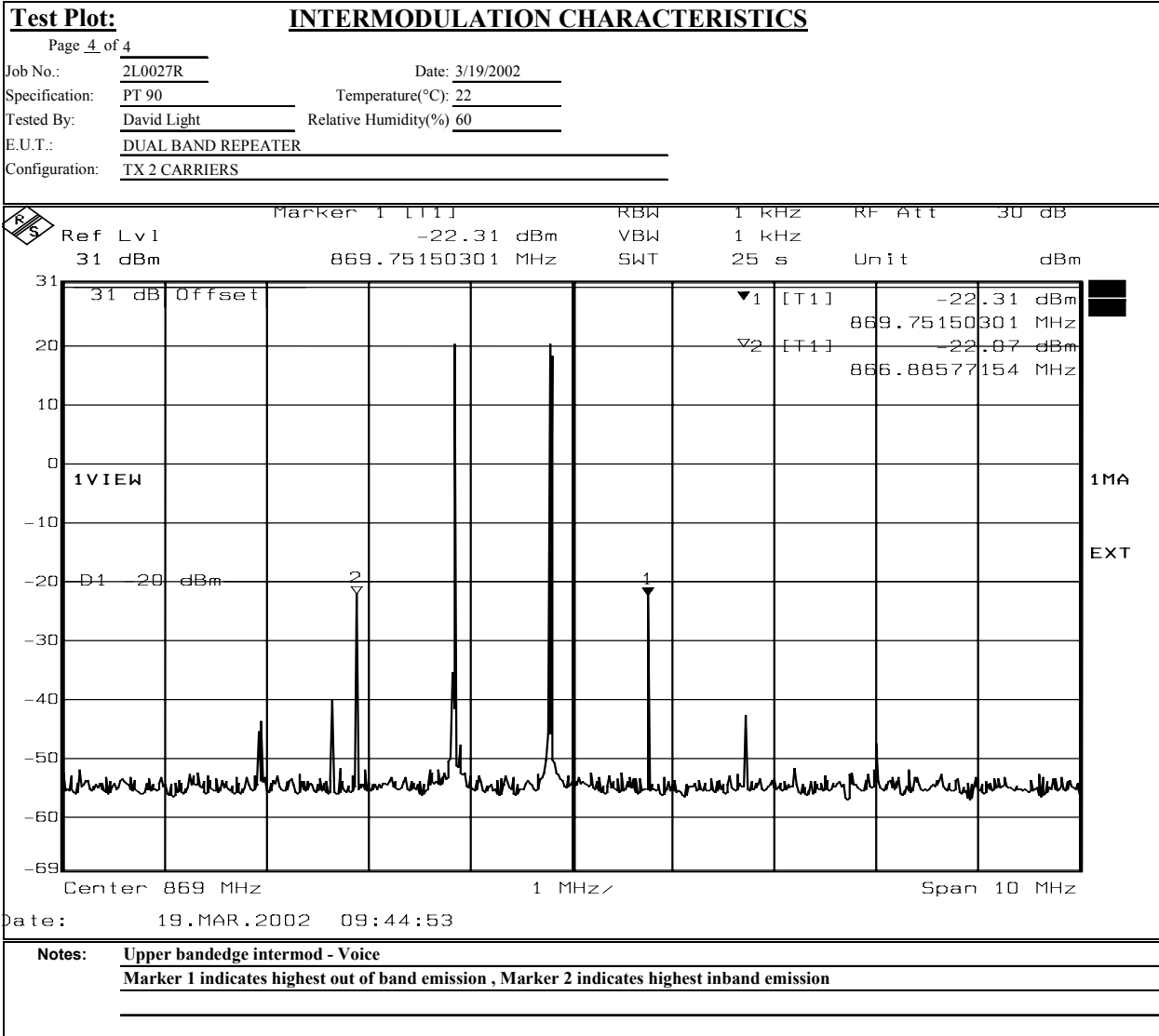
EQUIPMENT: Enhanced Remote Antenna Unit
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Test Data – Spurious Emissions at Antenna Terminals



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EQUIPMENT: Enhanced Remote Antenna Unit
(ERAU)

Section 6. Field Strength of Spurious Emissions

NAME OF TEST: Field Strength of Spurious Emissions	PARA. NO.: 2.993
TESTED BY: David Light	DATE:3/19/2002

Test Results: Complies.

Test Data: See attached table.

Note: See page A5 for applicable limit.

EQUIPMENT: Enhanced Remote Antenna Unit
(ERAU)

Test Data – Field Strength of Spurious Emissions



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Field Strength of Spurious Emissions

Page 1 of 1
 Job No.: _____ Date: 3/19/2002
 Specification: _____ Temperature(°C): 20
 Tested By: David Light Relative Humidity(%) 60
 E.U.T.: DUAL BAND REPEATER
 Configuration: TX @ 860 MHz
 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: 1484
 Filter: _____ 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
1720	-49.2	33.0		33.3	7.3		-42.3	0.0001	H	
2580	-53.8	35.5		33.8	8.0		-44.2	0.0000	H	
3440	-62.5	36.3		33.6	8.0		-51.8	0.0000	H	Noise floor
4300	-63.0	34.8		33.5	8.2		-53.5	0.0000	H	Noise floor
8600	-66.7	42.2		34.3	9.4		-49.5	0.0000	H	Noise floor
1720	-43.5	31.0		33.3	7.3		-38.6	0.0001	V	
2580	-51.5	35.5		33.8	8.0		-41.9	0.0001	V	
3440	-62.5	39.8		33.6	8.0		-48.3	0.0000	V	Noise floor
4300	-61.8	45.3		33.5	8.2		-41.8	0.0001	V	
8600	-66.7	44.8		34.3	9.4		-46.8	0.0000	V	Noise floor

Notes: Scanned spectrum to the tenth harmonic

EQUIPMENT: Enhanced Remote Antenna Unit
(ERAU)

Photographs of Test Setup

FRONT VIEW



REAR VIEW



EQUIPMENT: Enhanced Remote Antenna Unit
(ERAU)

PROJECT NO.: 2L0027RUS3

Section 7. Test Equipment List

Nemko ID	Description	Manufacturer Model Number	Serial Number	Calibration Date
1304	HORN ANTENNA	ELECTRO METRICS RGA-60	6151	07/30/01
1464	Spectrum analyzer	Hewlett Packard 8563E	3551A04428	01/02/01
1484	Cable 2.0-18.0 Ghz	Storm PR90-010-072	N/A	06/01/01
1485	Cable 2.0-18.0 Ghz	Storm PR90-010-216	N/A	06/01/01
1036	SPECTRUM ANALYZER	ROHDE & SCHWARZ FSEK30	830844/006	12/18/01
1052	I/Q MODULATION GENERATOR	Rhode & Schwarz AMIQ	DE30619	09/25/00
1051	Radio Communication Analyzer	Rhode & Schwarz CMTA-54	835875/002	CBU
1478	20db Attenuator DC 18 Ghz	MCL Inc. BW-S20W6	NONE	CBU
1471	10 db Attenuator DC 18 Ghz	MCL Inc. BW-S10W2 10db-2WDC	NONE	CBU
1628	CABLE, 6 ft	MEGAPHASE TM26 S1S5 72	N/A	CBU
1627	CABLE, 5 ft	MEGAPHASE 10312 1GVT4	N/A	CBU
1629	CABLE, 6 ft	MEGAPHASE 10311 1GVT4	N/A	CBU
1092	COMBINER	MINI-CIRCUITS ZA3PD-1.5	NONE	CBU
1053	SIGNAL GENERATOR	ROHDE & SCHWARZ SMIQ 03	DE22081	08/09/01

ANNEX A - TEST METHODOLOGIES

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

Minimum Standard: Para. No. 90.205(a). The maximum allowable station ERP is dependent upon the stations HAAT and required service area and will be authorized in accordance with Table 1 of 90.205(d).

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.

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

EQUIPMENT: Enhanced Remote Antenna Unit
(ERAU)

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

Test Method:

RBW: 1% of emission bandwidth in the 0 - 1 GHz

range.

1 MHz at frequencies above 1 GHz.

VBW: $\Rightarrow$ RBW

The spectrum is searched up to 10 times the fundamental frequency.

Nemko Dallas

FCC PART 90, SUBPART I
PRIVATE LAND MOBILE REPEATER
PROJECT NO.: 2L0027RUS3

EQUIPMENT: Enhanced Remote Antenna Unit
(ERAU)

NAME OF TEST: Occupied Bandwidth

PARA. NO.: 2.989

Minimum Standard: Para. No. 90.210, see table 1 below for applicable mask.

Table 1

Frequency Band (MHz)	Mask for equipment with Low Pass Filter	Mask for equipment without Low Pass Filter
Below 25	A or B	A or C
25 - 50	B	C
72 - 76	B	C
150 - 174	B, D or E	C, D or E
150 Paging only	B	C
220 - 222	F	F
421 - 512	B, D or E	C, D or E
450 paging only	B	H
806 - 821/ 851 - 866	B	G
821 - 824/ 866 - 869	B	H
896 - 901/ 935 - 940	I	J
902 - 928	K	K
929 - 930	B	G
Above 940	B	C
All other bands	B	C

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

Minimum Standard:

Para. No. 90.210, see table 1 for applicable mask.

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.

The spectrum is searched up to the 10th harmonic.

NAME OF TEST: Frequency Stability	PARA. NO.: 2.995
--	-------------------------

Minimum Standard: Para. No. 990.213. The transmitter carrier frequency shall remain

within the assigned frequency below in ppm.

Table 2

Frequency Band (MHz)	Fixed And Base Stations	Mobile Stations	
		> 2 Watts o/p pwr	< 2 Watts o/p pwr
Below 25	100	100	200
25 - 50	20	20	50
72 - 76	5	-	50
150 - 174	5	5	5
220 - 222	0.1	1.5	1.5
421 - 512	2.5	5	5
806 - 821	1.5	2.5	2.5
821 - 824	1.0	1.5	15
851 - 866	1.5	2.5	2.5
866 - 869	1.0	1.5	1.5
869 - 901	0.1	1.5	1.5
902 - 928	2.5	2.5	2.5
929 - 930	1.5	-	-
935 - 940	0.1	1.5	1.5
1427 - 1435	300	300	300
Above 2450	-	-	-

Nemko Dallas

FCC PART 90, SUBPART I
PRIVATE LAND MOBILE REPEATER

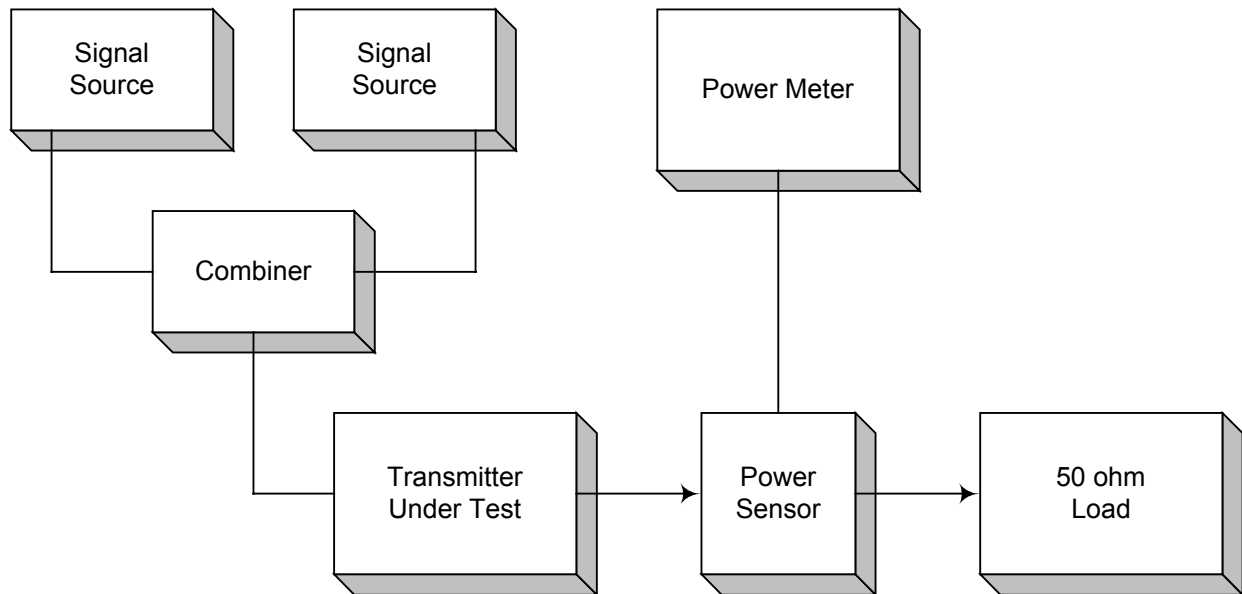
EQUIPMENT: Enhanced Remote Antenna Unit
(ERAU)

PROJECT NO.: **2L0027RUS3**

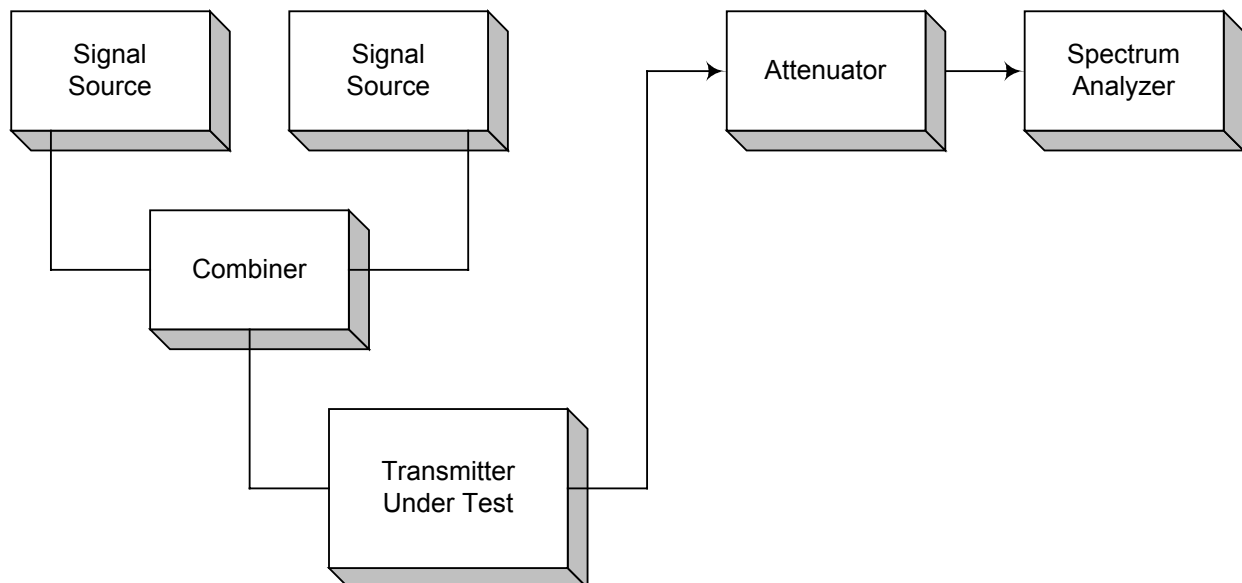
ANNEX B - TEST DIAGRAMS

EQUIPMENT: Enhanced Remote Antenna Unit
(ERAU)

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

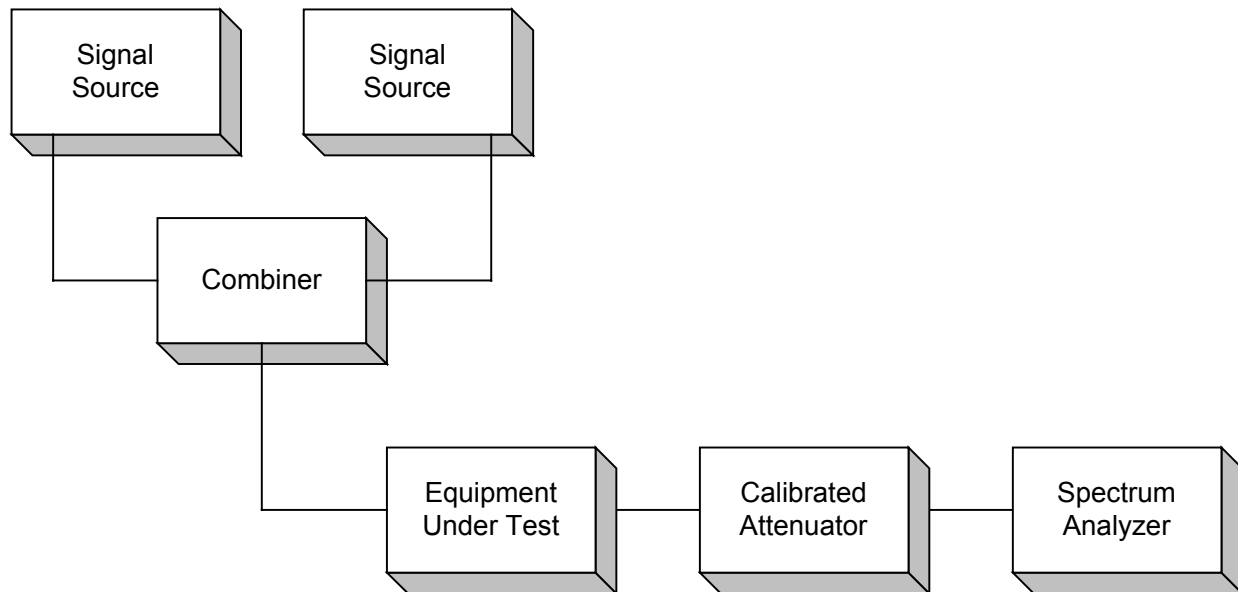


Para. No. 2.989 - Occupied Bandwidth

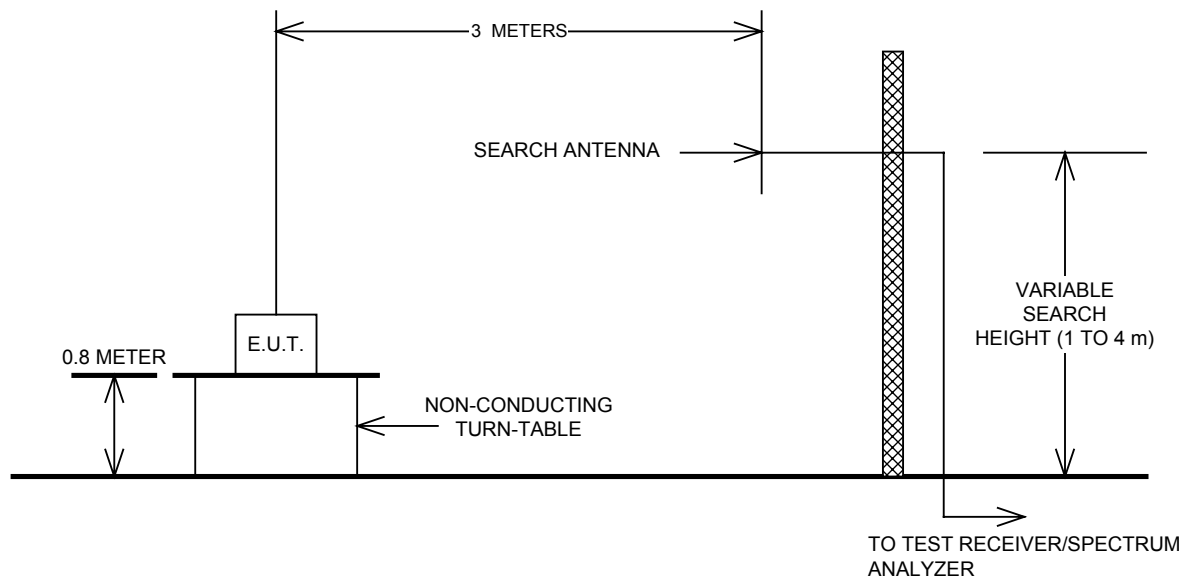


EQUIPMENT: Enhanced Remote Antenna Unit
(ERAU)

Para. No. 2.991 - Spurious Emissions at Antenna Terminals



Para. No. 2.993 - Field Strength of Spurious Radiation



EQUIPMENT: Enhanced Remote Antenna Unit
(ERAU)

Para. No. 2.995 - Frequency Stability

