Nemko Test Report:	3L0494RUS1REV1
Applicant:	Andrew Corporation
Equipment Under Test: (E.U.T.)	Node C 837
In Accordance With:	**FCC Part 22, Subpart H** Cellular Band Repeaters
Tested By:	Nemko Dallas Inc. 802 N. Kealy Lewisville, TX 75057-3136
Authorized By:	 Tom Tidwell, Frontline Manager
Date:	5/20/04
Total Number of Pages:	52

Table of Contents

SECTION 1. SUMMARY OF TEST RESULTS 3

SECTION 2. GENERAL EQUIPMENT SPECIFICATION 5

SECTION 3. RF POWER OUTPUT 6

SECTION 3. RF POWER OUTPUT 7

SECTION 4. OCCUPIED BANDWIDTH 8

SECTION 5. SPURIOUS EMISSIONS AT ANTENNA TERMINALS 23

SECTION 6. FIELD STRENGTH OF SPURIOUS 30

SECTION 7. FREQUENCY STABILITY 35

SECTION 8. TEST EQUIPMENT LIST 36

ANNEX A - TEST DETAILS 37

ANNEX B - TEST DIAGRAMS 46

Section 1. Summary of Test Results

Manufacturer: Andrew Corporation

Model No.: Node C 837

Serial No.: 12

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 22, Subpart H.

☒ 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".

Summary Of Test Data

NAME OF TEST	PARA. NO.	SPEC.	RESULT
RF Power Output	22.913(a)	500W	Complies
Occupied Bandwidth	22.917(c)	Input/Output	Complies
Spurious Emissions at Antenna Terminals	22.917	-13 dBm	Complies
Field Strength of Spurious Emissions	22.917	-13 dBm E.I.R.P.	Complies
Frequency Stability	22.355	1.5 ppm	N/A

Footnotes:

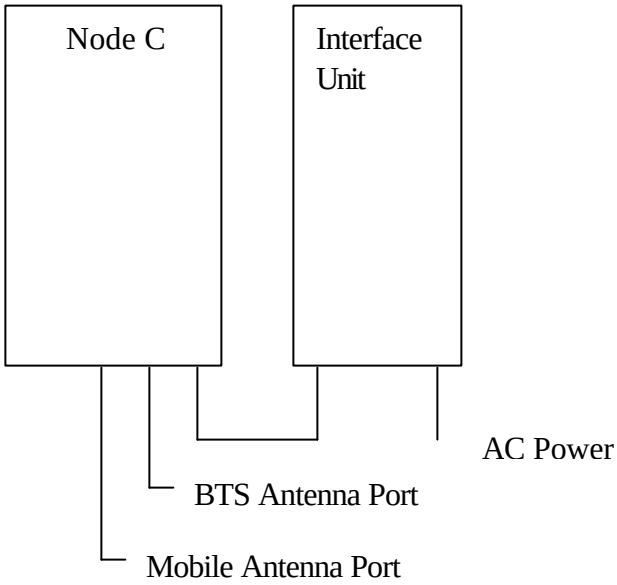
Measurement uncertainty for each test configuration is expressed to 95% probability.

.

Section 2. General Equipment Specification

Supply Voltage Input:		115V AC
Frequency Range:	**Downlink:**	869 – 894 MHz Band Device operates on Ch 37 to 630 (871.11 to 888.90MHz)
Frequency Range:	**Uplink:**	824-849MHz Band Device operates on Ch 37 to 630 (to 843.90MHz)
Type of Modulation and Designator:		**CDMA (F9W)** ☒ **GSM (GXW)** ☐ **NADC (DXW)** ☐ **CDPD (F9W)** ☐ **AMPS (F8W, F1D)** ☐
Output Impedance:		50 ohms
RF Output (Rated): (Per Carrier)	**Downlink:**	37 dBm (1 Carrier)
	Uplink:	23 dBm
Frequency Translation:		**F1-F1** ☐ **F1-F2** ☐ **N/A** ☒
Band Selection:		**Software** ☒ **Duplexer Change** ☐ **Fullband Coverage** ☐

System Diagram



Section 3. RF Power Output

NAME OF TEST: RF Power Output	PARA. NO.: 2.1046
TESTED BY: Dustin Oaks	DATE: 2/26/2004

Test Results: Complies.

Test Data:

	Modulation Type	Power Output (dBm)	
Uplink	CDMA	23.01dBm	
Downlink	CDMA	37.51dBm	

Equipment Used: 1036, 1626, 1627, 1064, 1469, 1053

Measurement Uncertainty: +/- 1.6 dB

Temperature: 21 ?C

Relative Humidity: 51 %

Section 4. Occupied Bandwidth

NAME OF TEST: Occupied Bandwidth	PARA. NO.: 2.1049
TESTED BY: Dustin Oaks	DATE: 2/26/2004

Test Results: Complies.

Test Data: See attached plots

Equipment Used: 1036, 1626, 1627, 1064, 1469, 1053

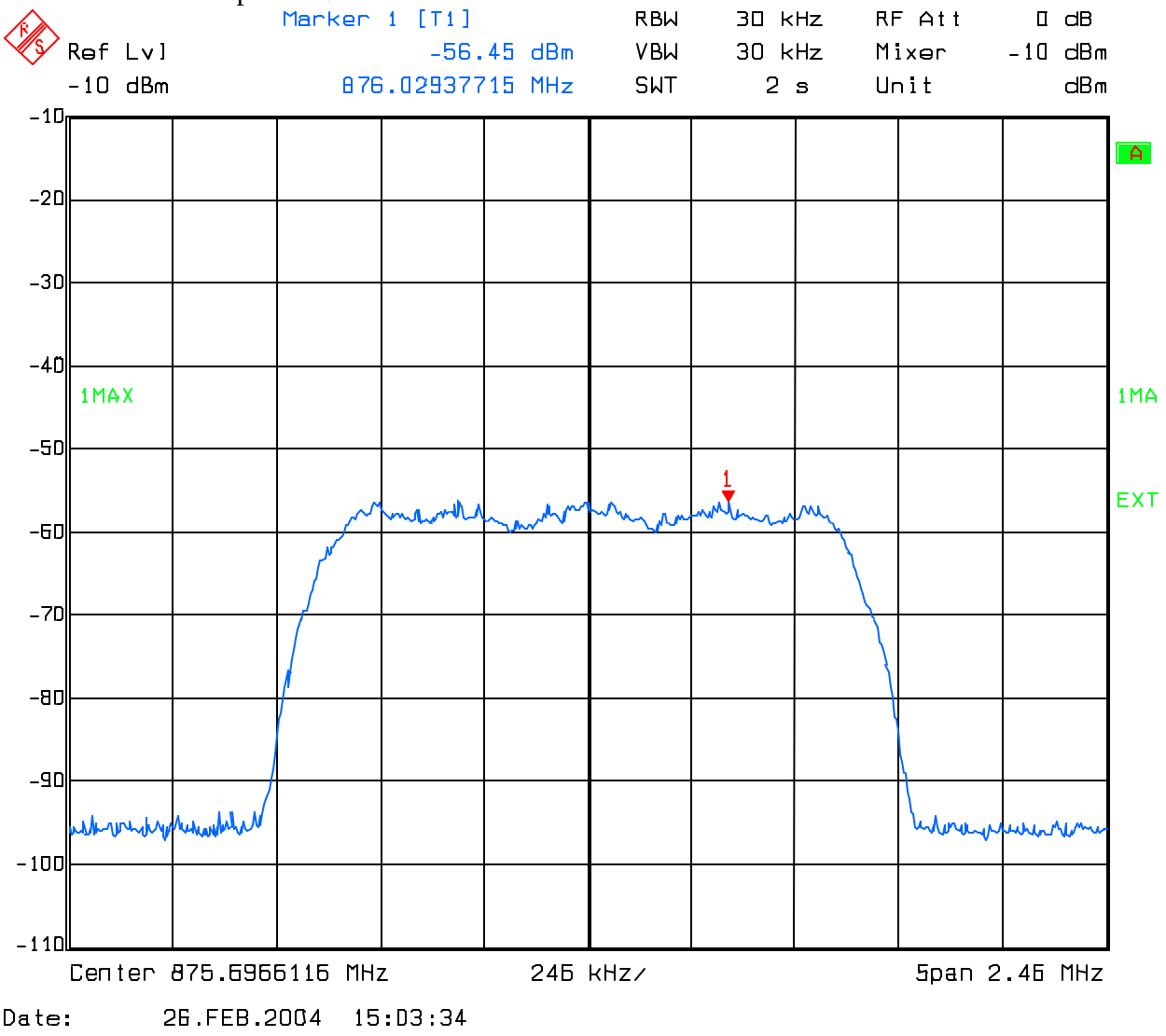
Measurement Uncertainty: +/- 1.6 dB

Temperature: 21 ?C

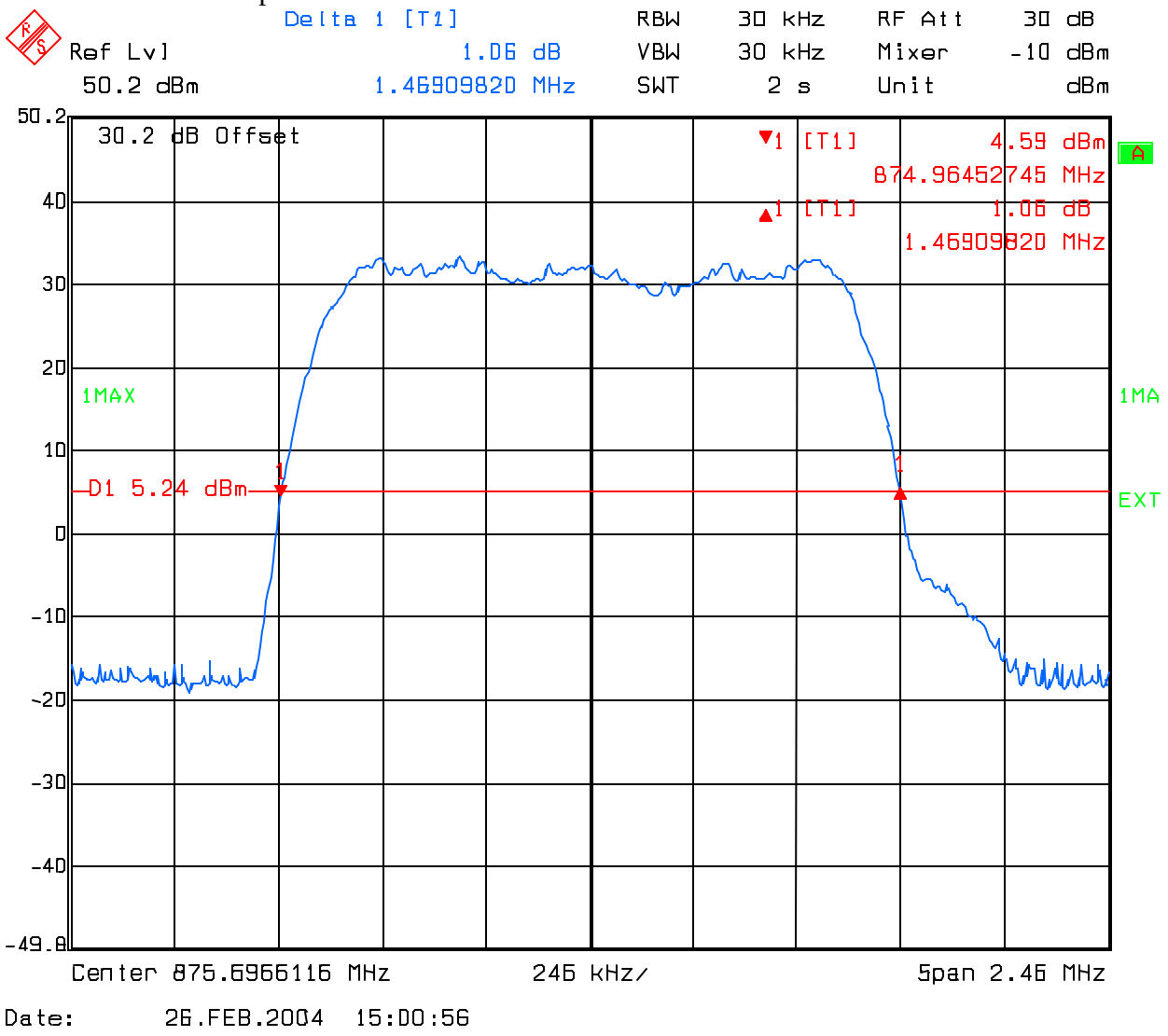
Relative Humidity: 51 %

Occupied Band Width / Input Output Plots

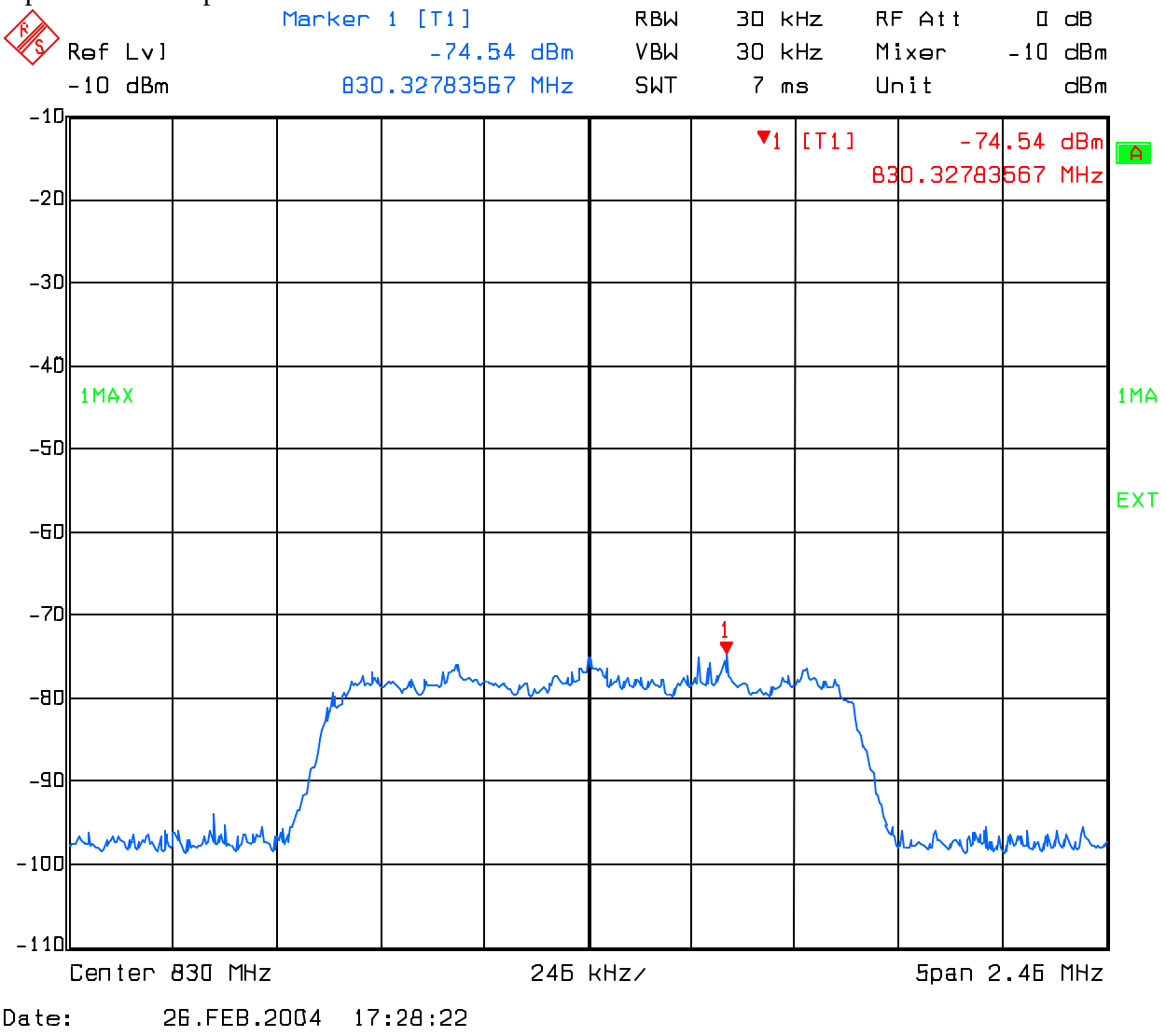
Downlink CDMA Input



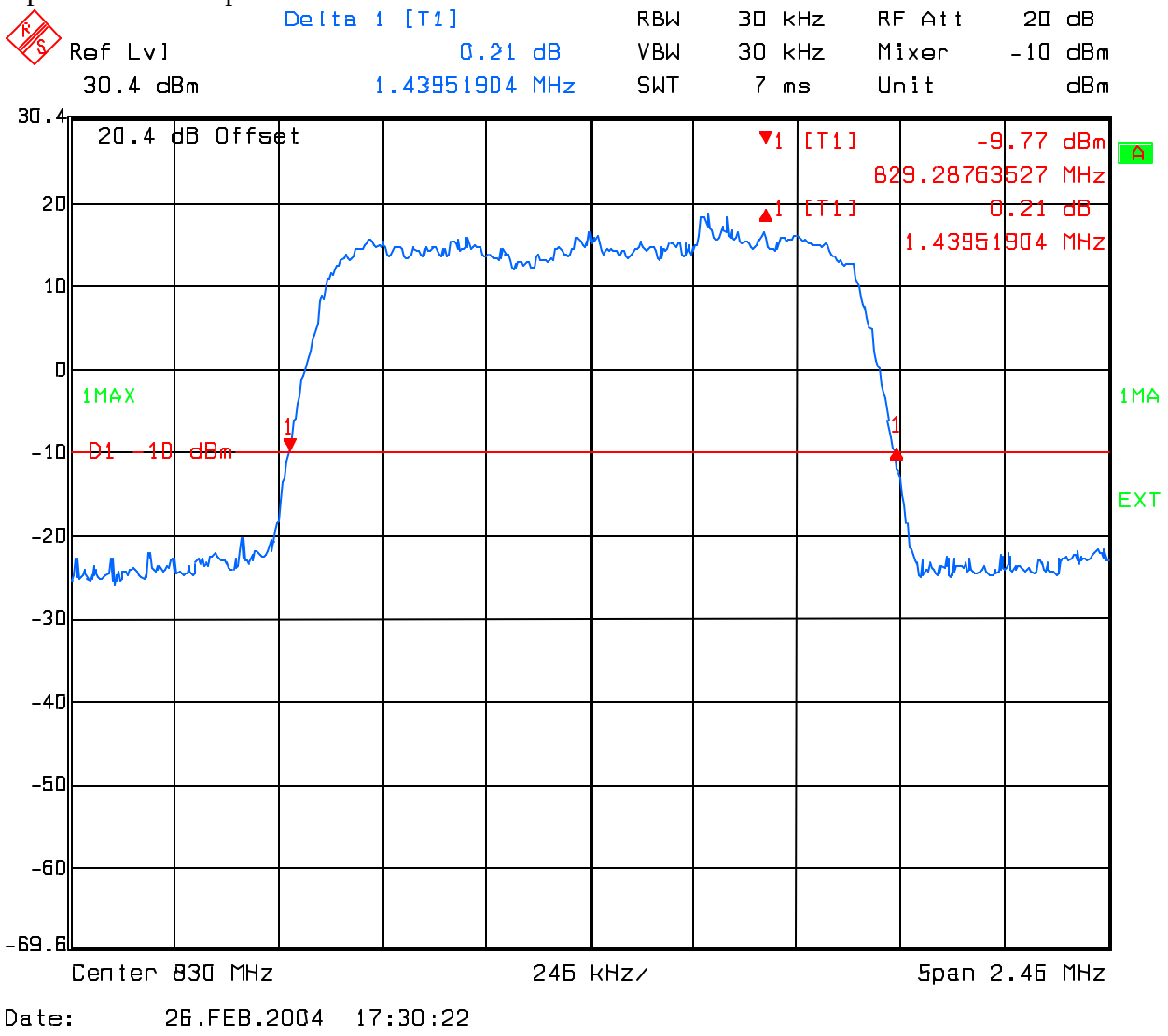
Downlink CDMA Output



Uplink CDMA Input

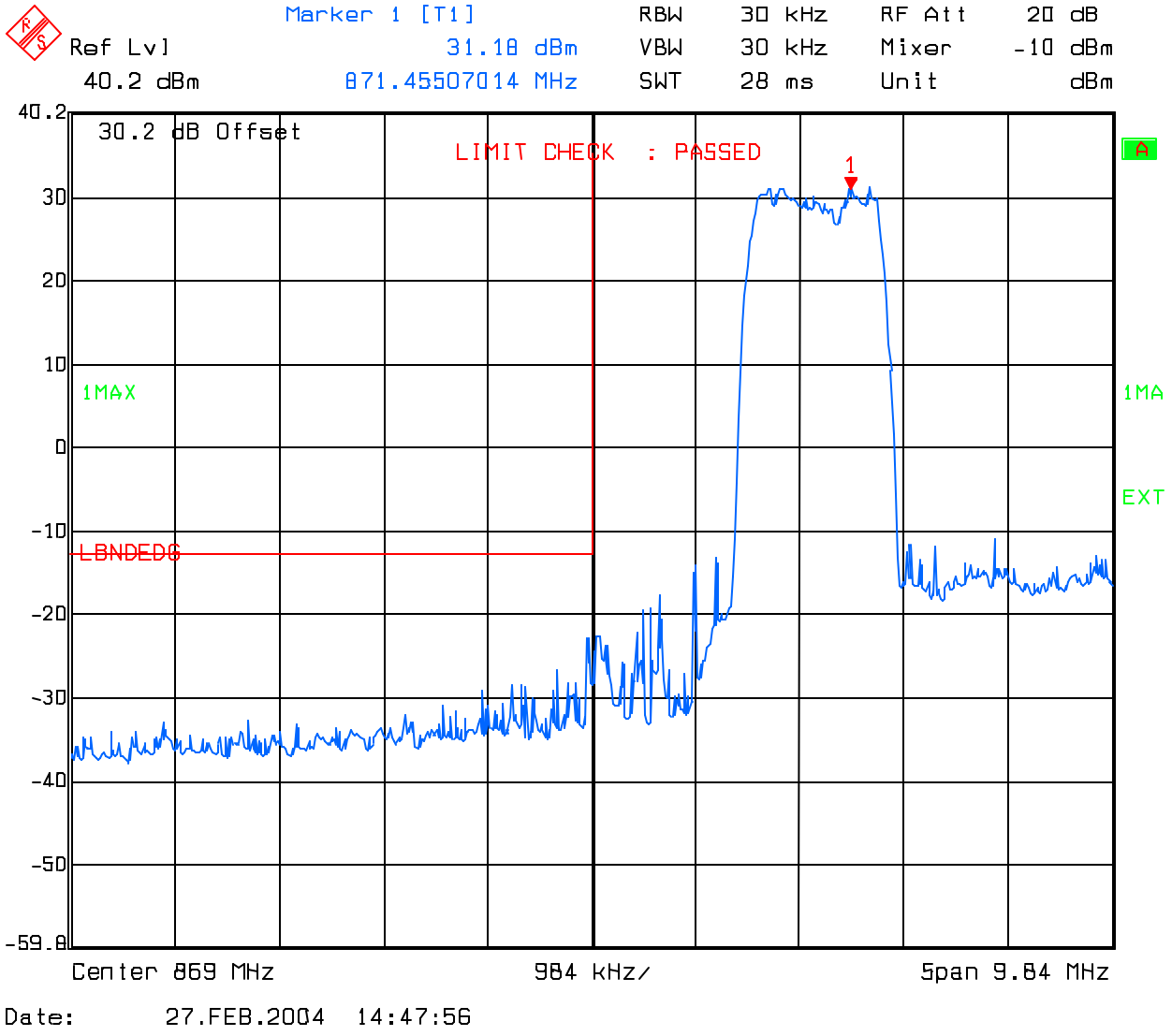


Uplink CDMA Output

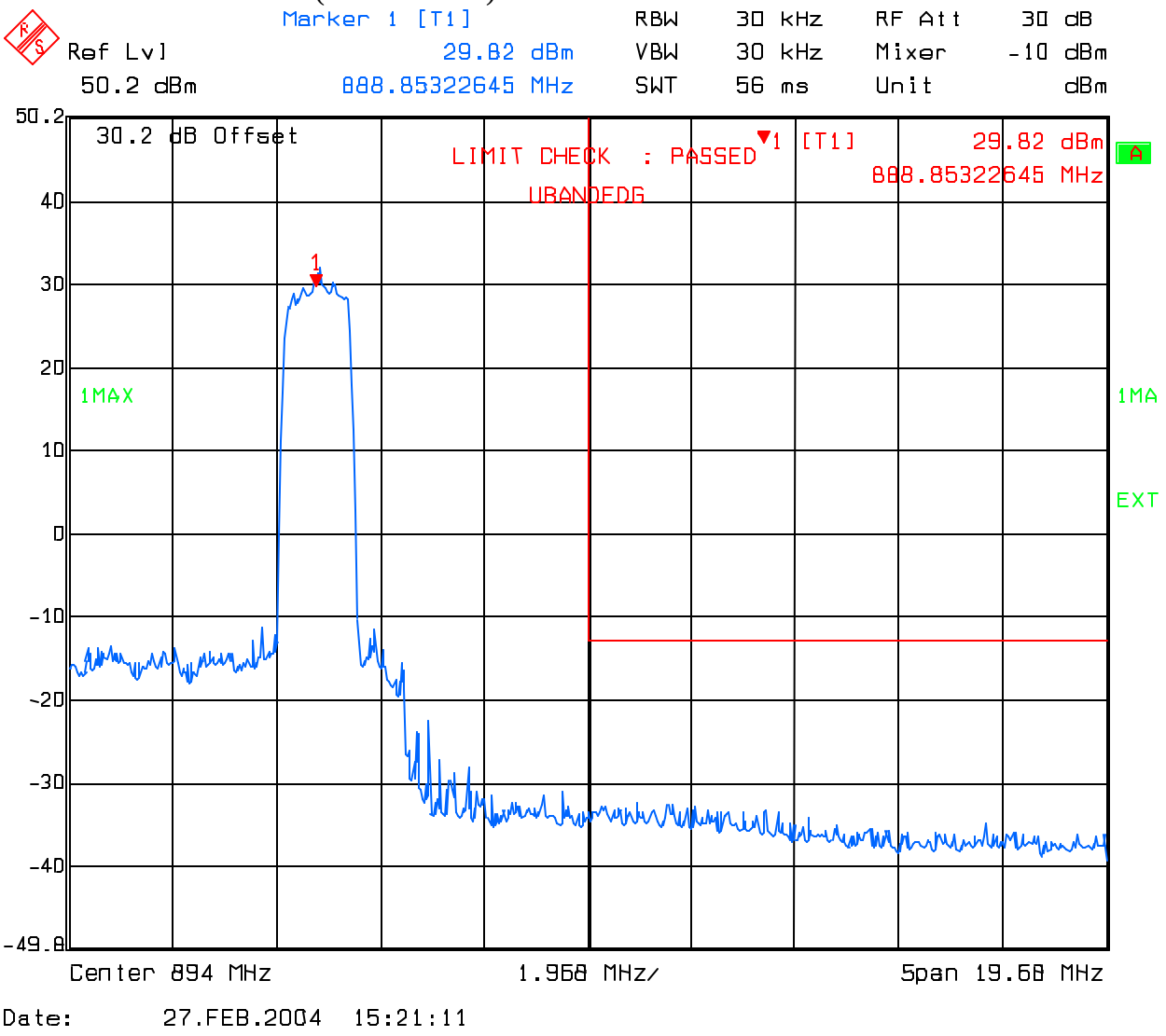


Band Edge

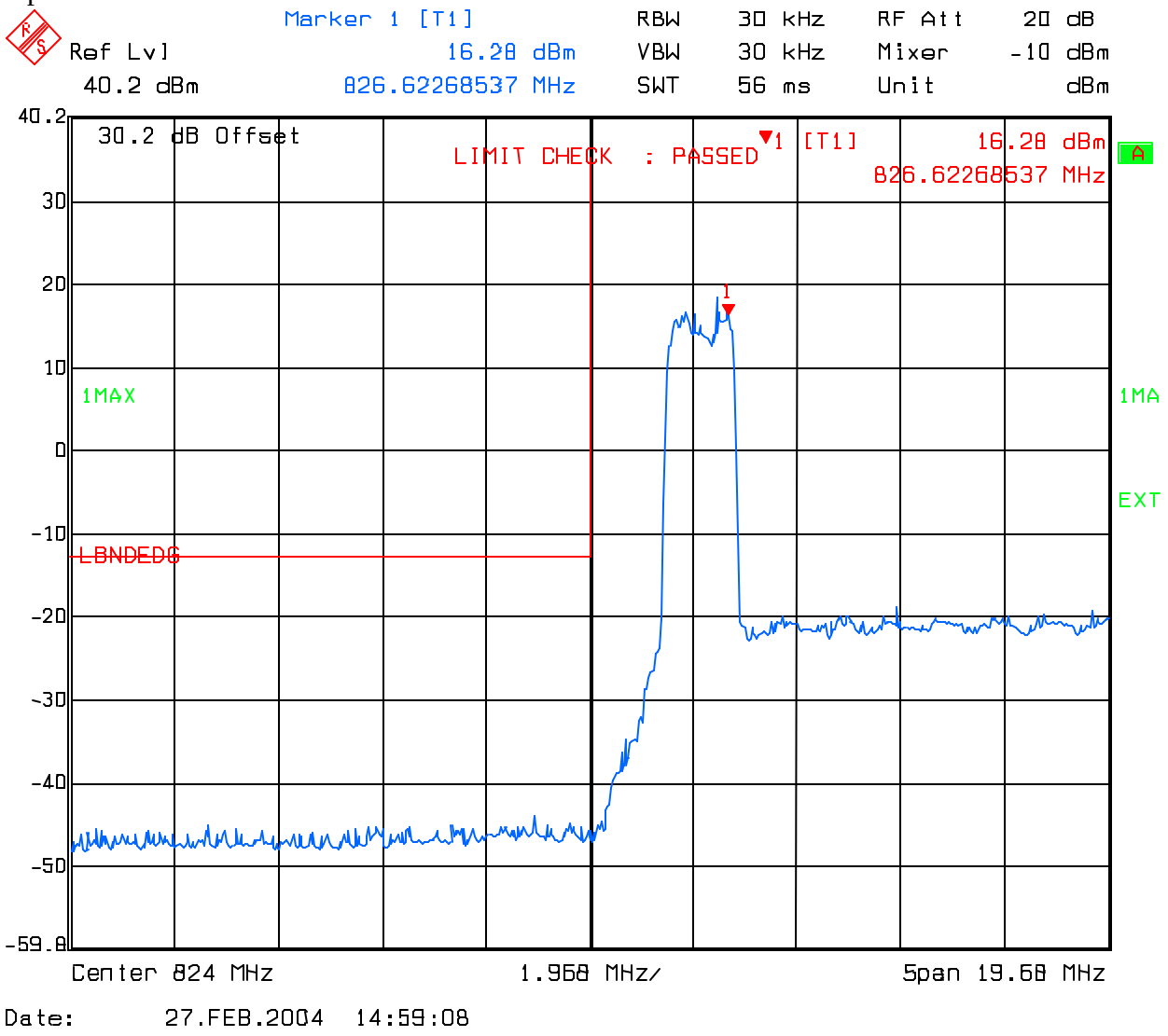
Down Link CDMA LOWER 871.11Mhz



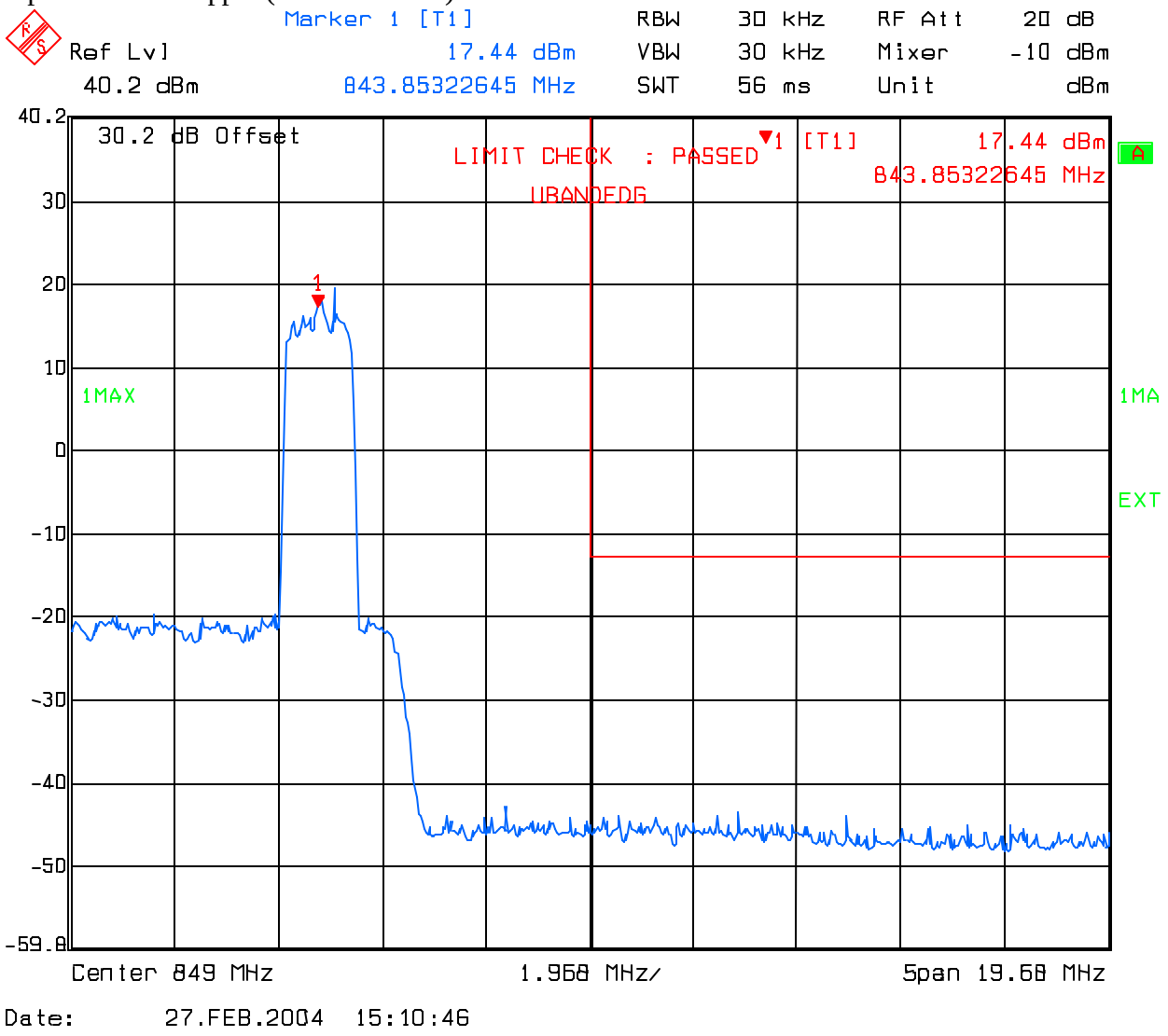
Downlink CDMA UPPER (Ch 888.9MHz)



Uplink CDMA LOWER

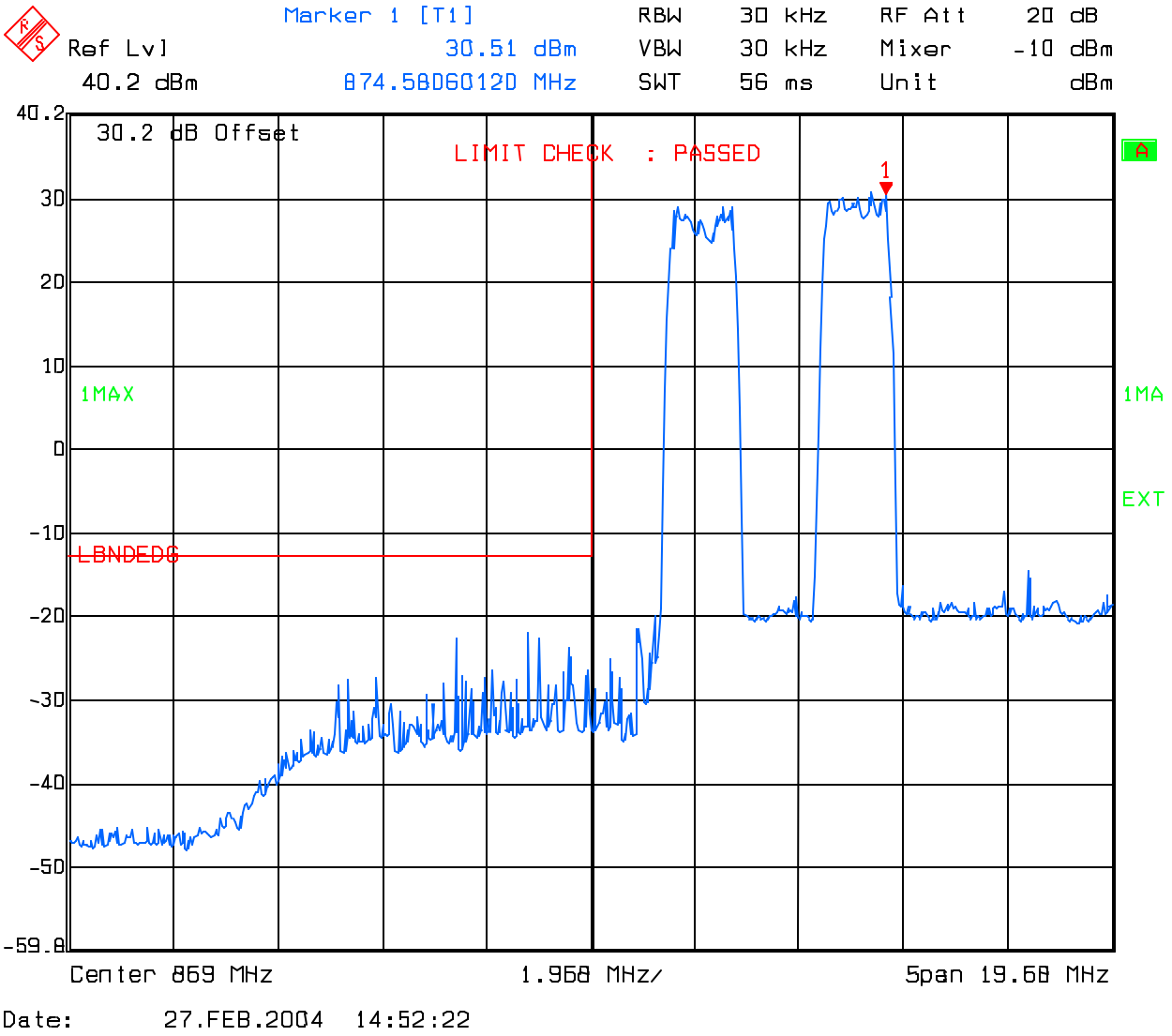


Uplink CDMA Upper (CH 843.9MHz)

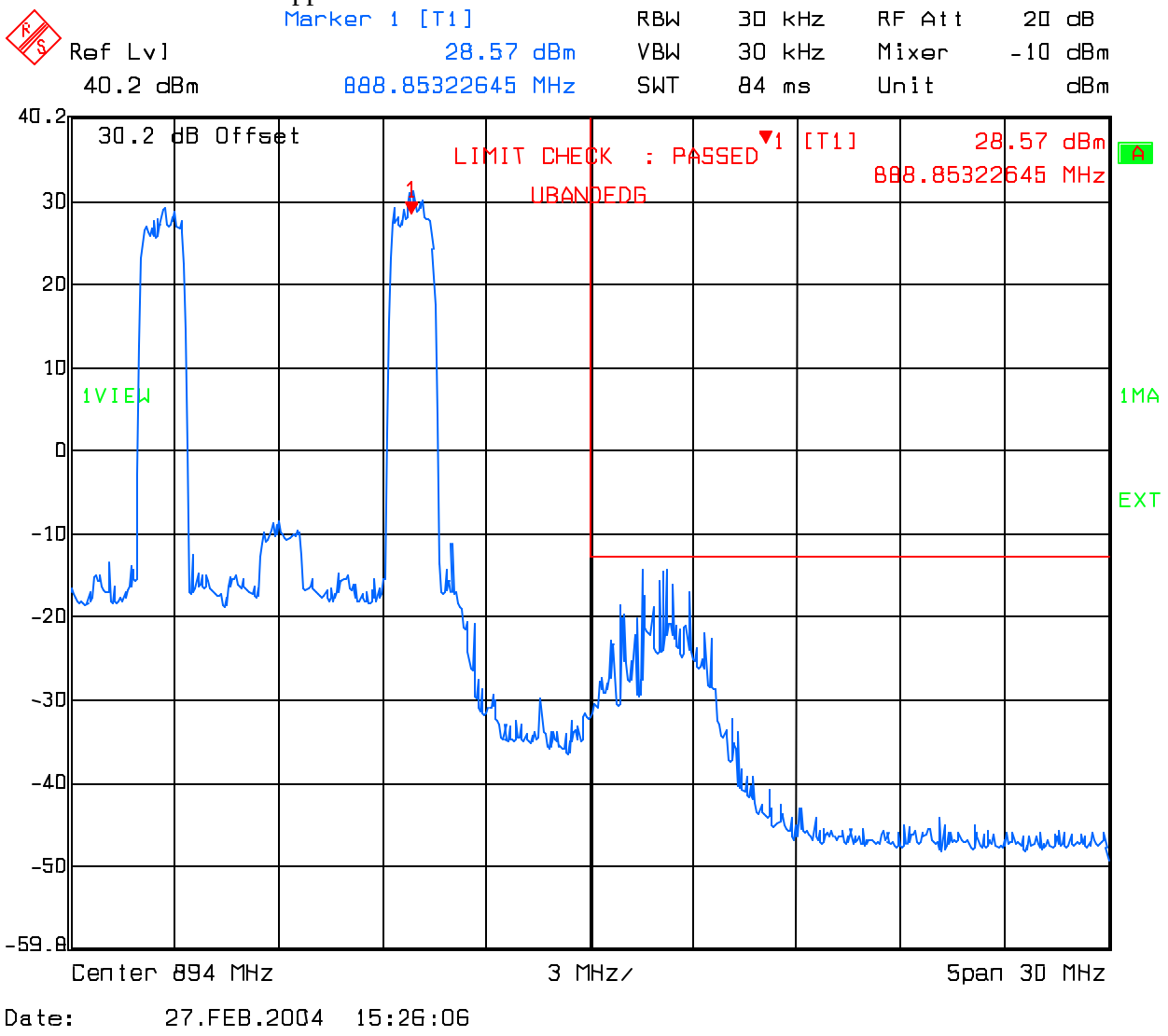


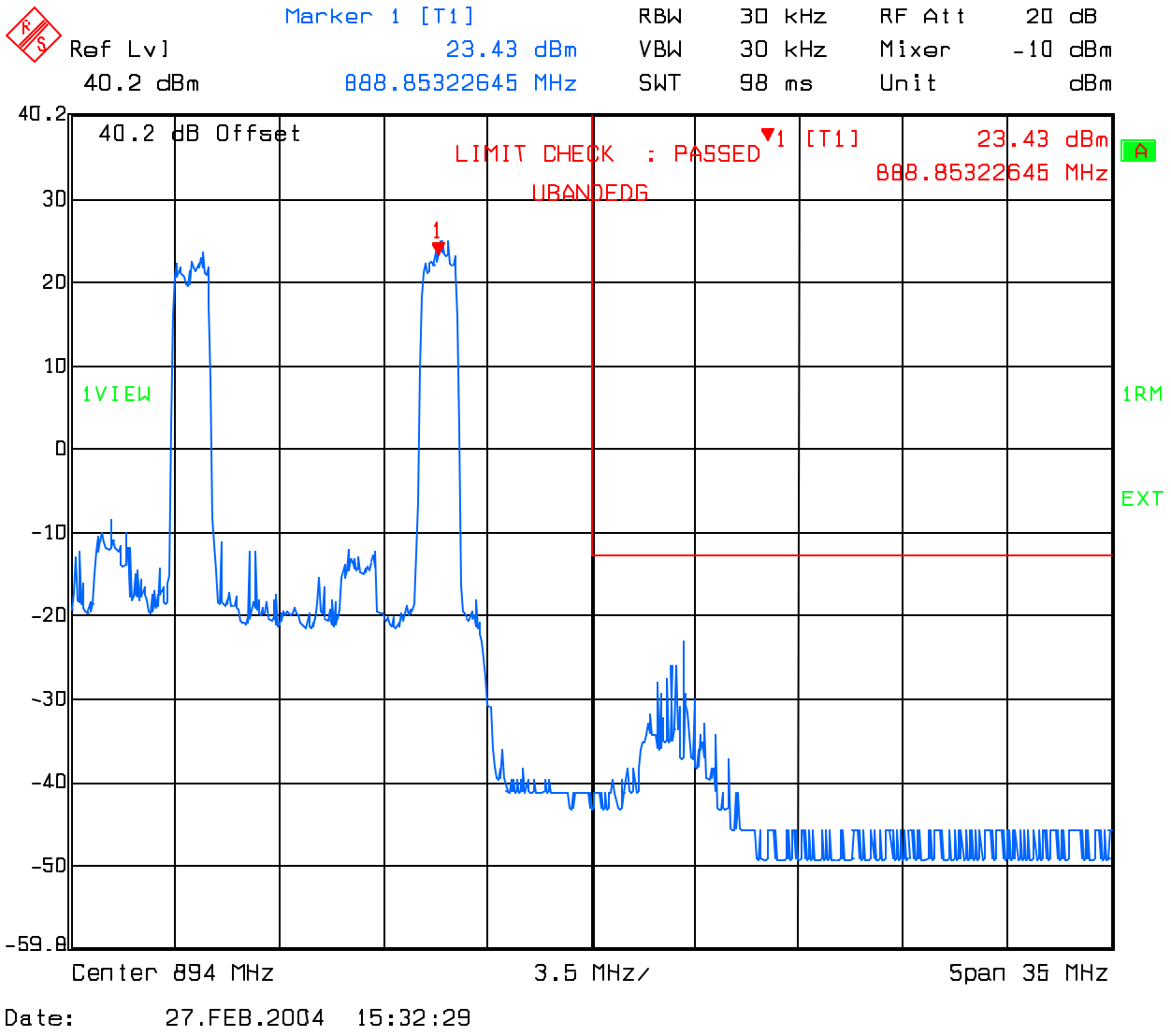
Intermodulation

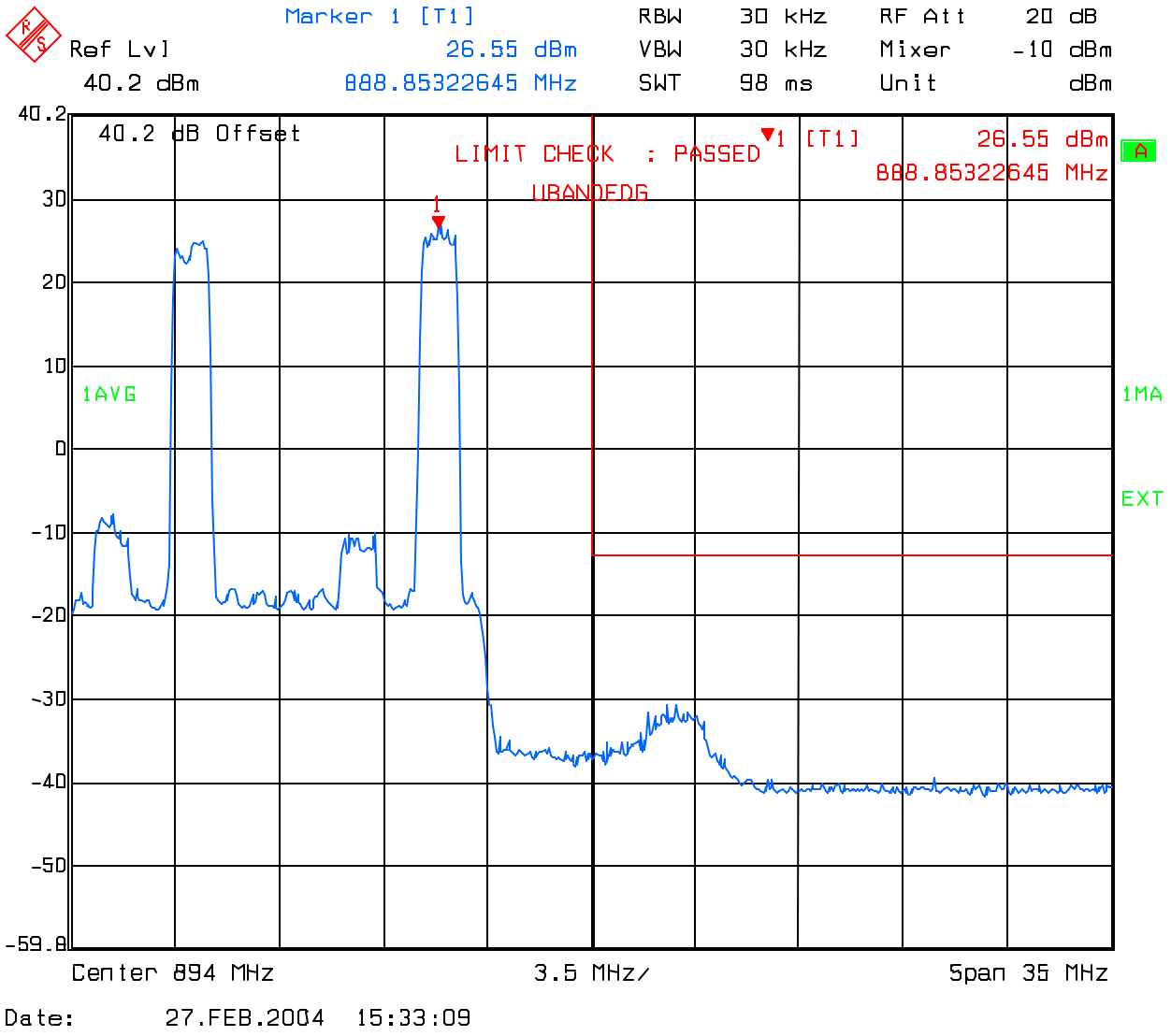
Downlink 800 CDMA Lower



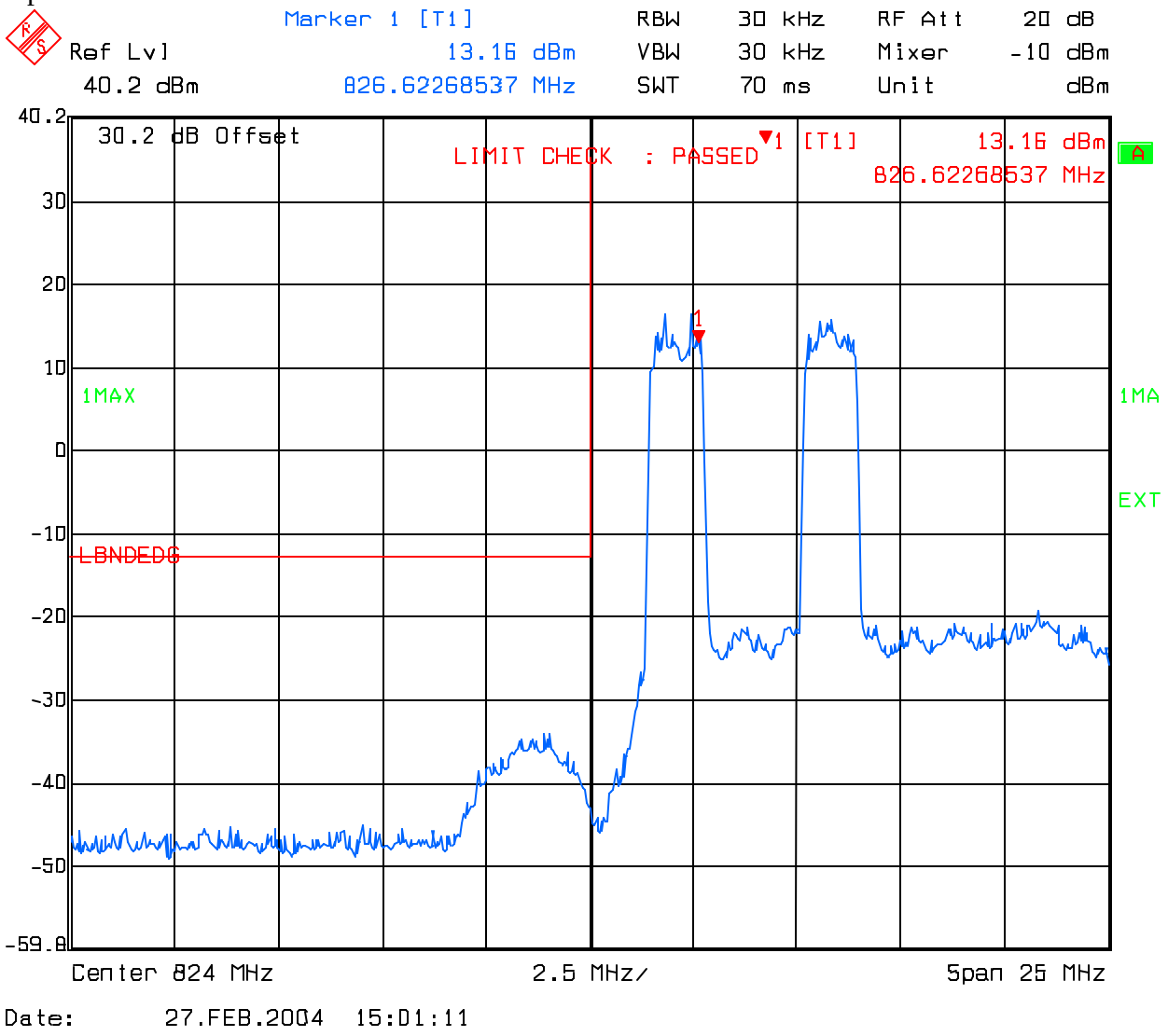
Downlink 800 CDMA Upper



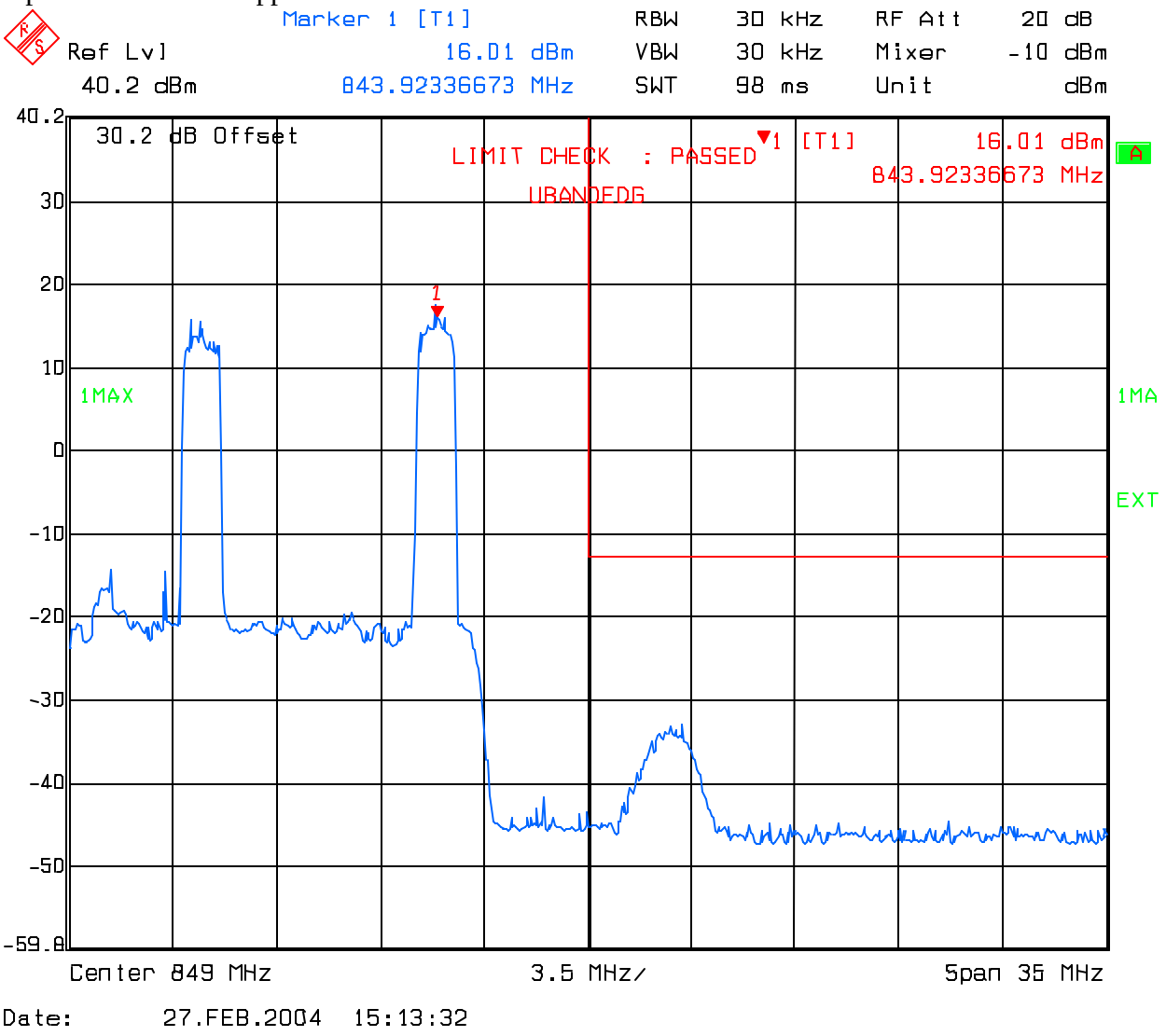

Marker 1 [T1]
Ref Lvl
40.2 dBm
23.43 dBm
888.85322645 MHz
RBW 30 kHz
VBW 30 kHz
SWT 98 ms
RF Att 20 dB
Mixer -10 dBm
Unit dBm
40.2 dB Offset
LIMIT CHECK : PASSED
UBANDEDG
1 [T1] 23.43 dBm
888.85322645 MHz
1VIEW
1RM
EXT
40.2
30
20
10
0
-10
-20
-30
-40
-50
-59.8
Center 894 MHz
3.5 MHz/
Span 35 MHz
Date: 27.FEB.2004 15:32:29


Marker 1 [T1]
Ref Lvl
40.2 dBm
26.55 dBm
888.85322645 MHz
RBW 30 kHz
VBW 30 kHz
SWT 98 ms
RF Att 20 dB
Mixer -10 dBm
Unit dBm
40.2 dB Offset
LIMIT CHECK : PASSED
URANDEDG
1 [T1] 26.55 dBm
888.85322645 MHz
1AVG
1MA
EXT
40.2
30
20
10
0
-10
-20
-30
-40
-50
-59.8
Center 894 MHz
3.5 MHz/
Span 35 MHz
Date: 27.FEB.2004 15:33:09

Uplink 800 CDMA Lower



Uplink 800 CDMA Upper



Section 5. Spurious Emissions at Antenna Terminals

NAME OF TEST: Spurious Emissions @ Antenna Terminals	PARA. NO.: 2.1051
TESTED BY: Dustin Oaks	DATE: 12/18/2003

Test Results: Complies.

Test Data: See attached plots

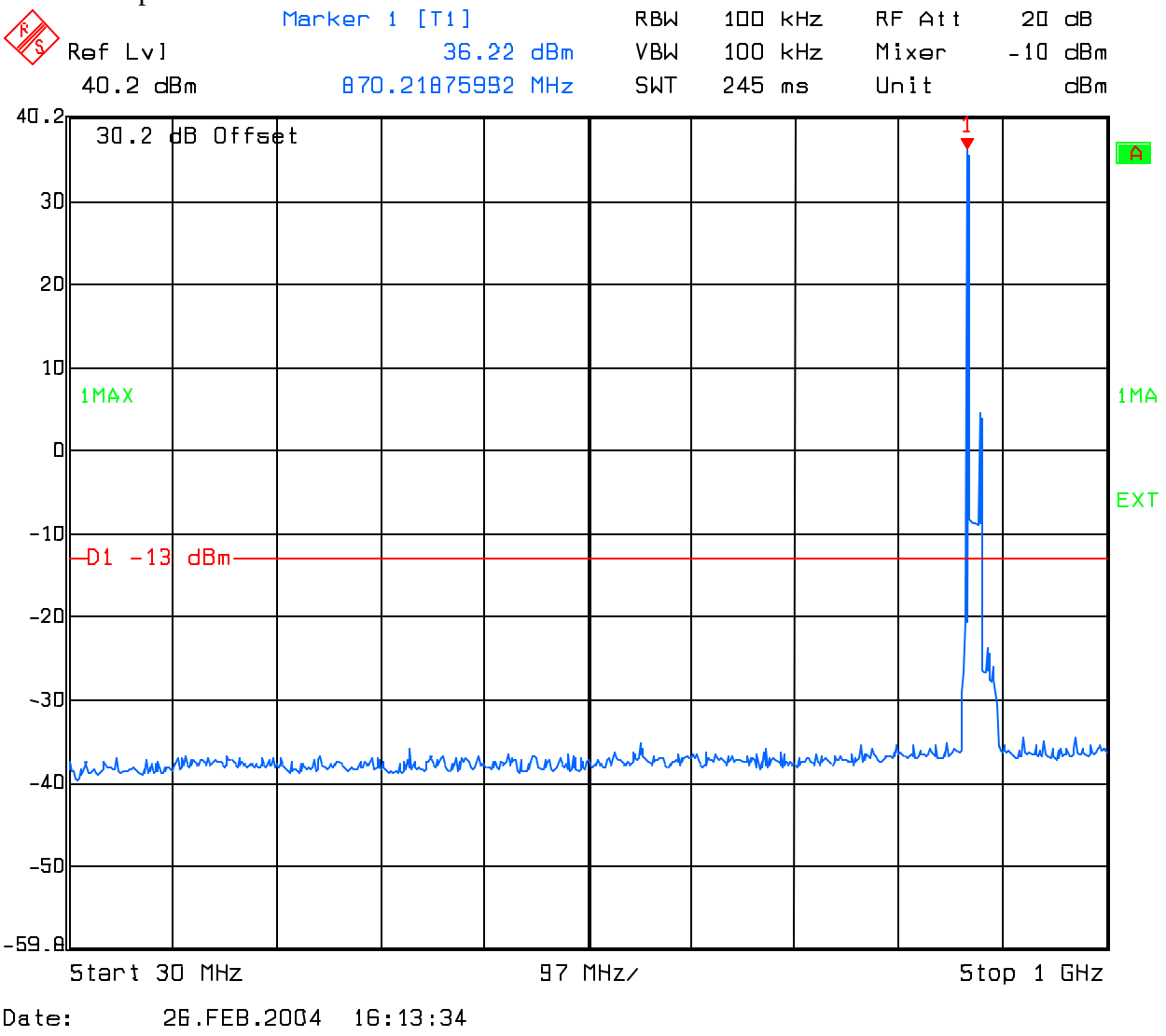
Equipment Used: 1036, 1625, 1629, 1604, 1474, 1053

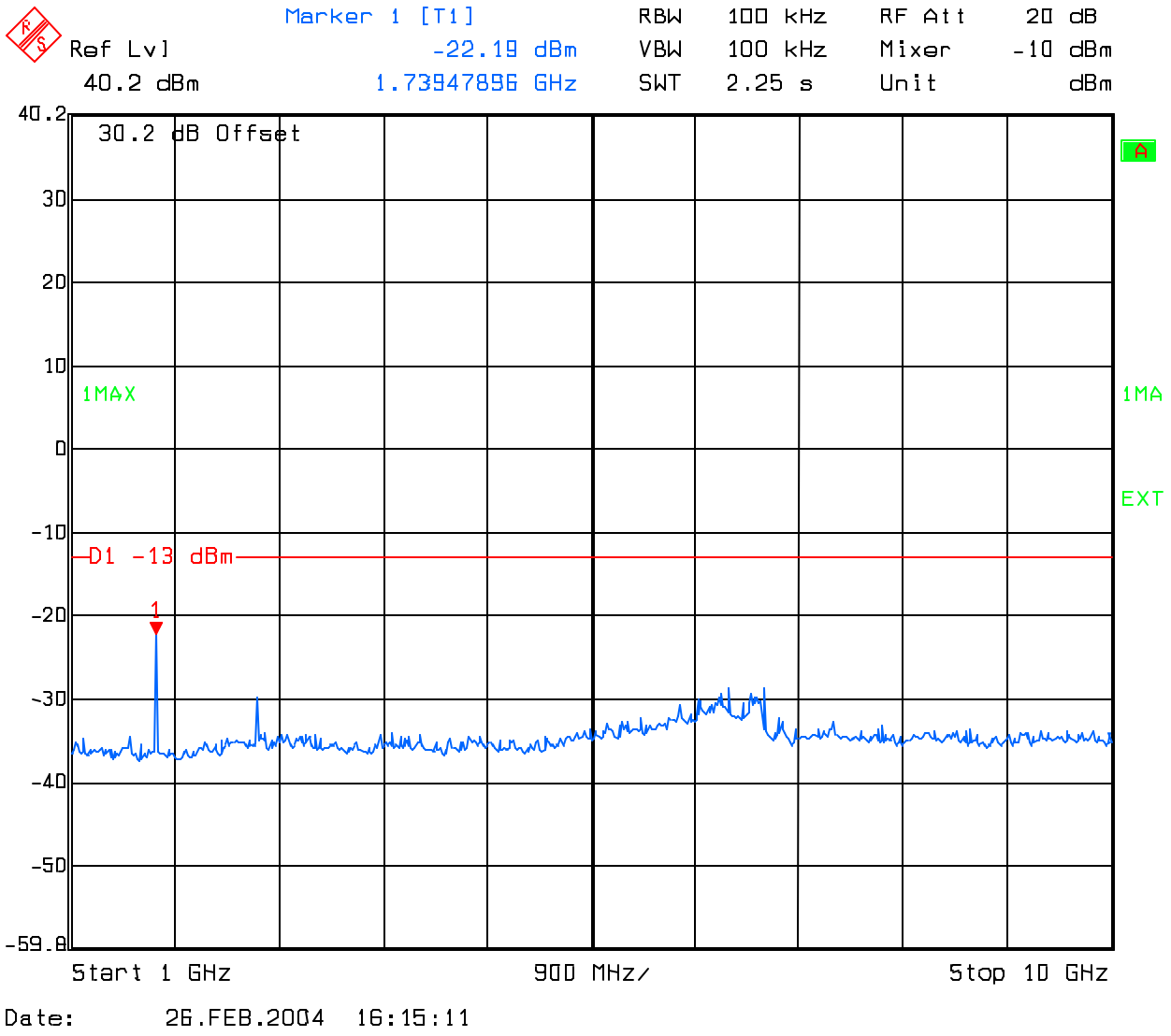
Measurement Uncertainty: +/- 1.6 dB

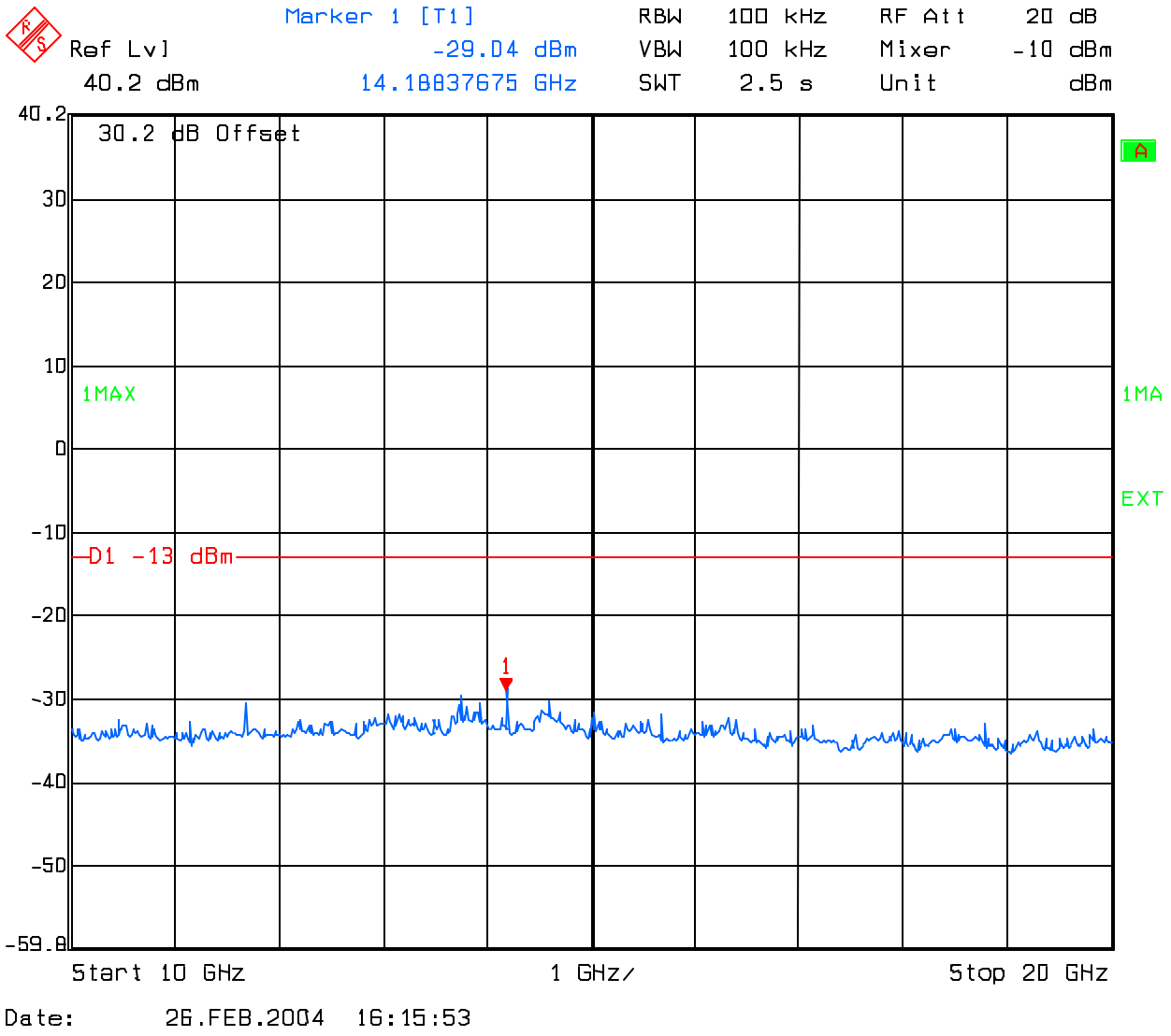
Temperature: 21 ?C

Relative Humidity: 51 %

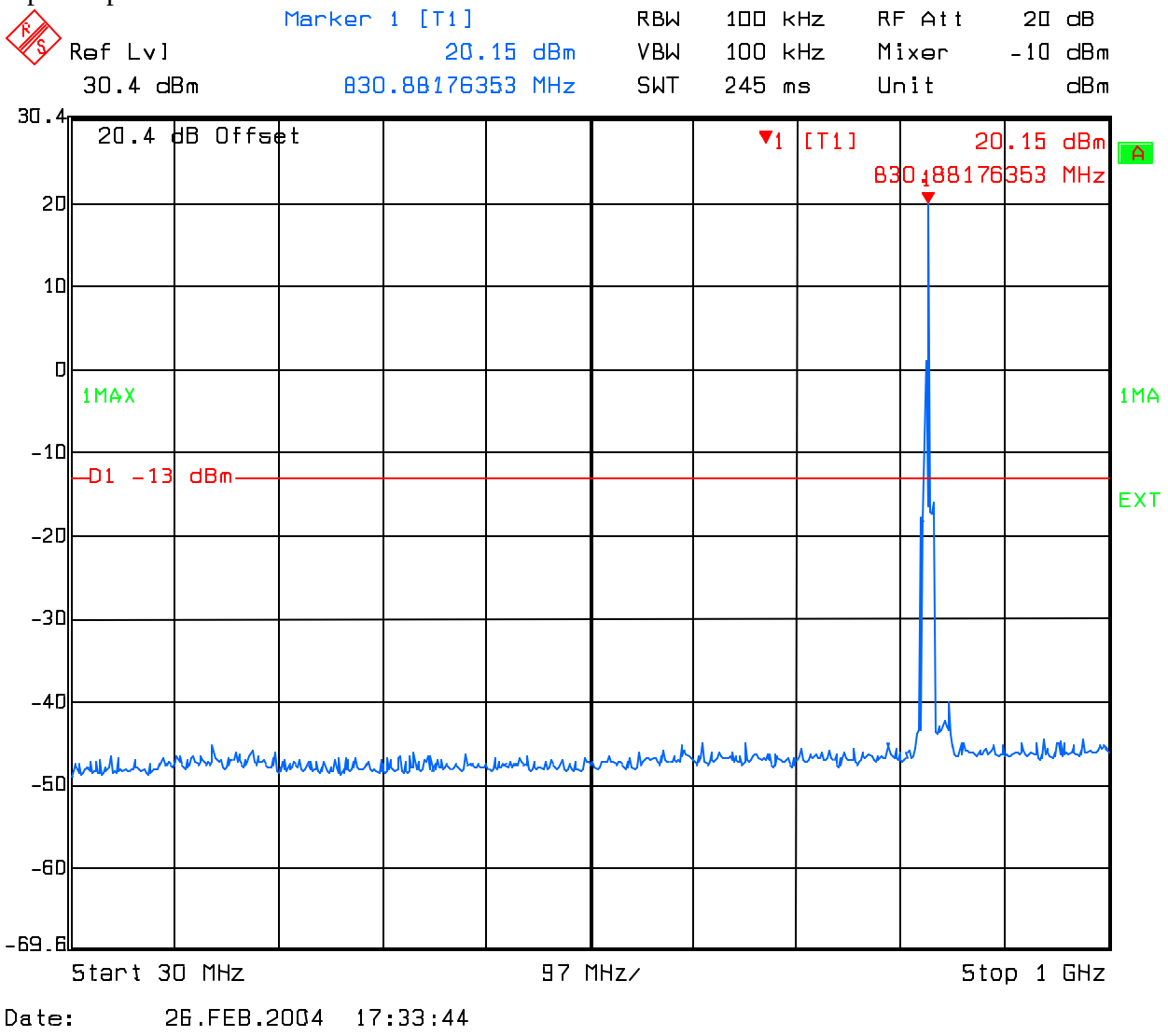
Downlink Spurs

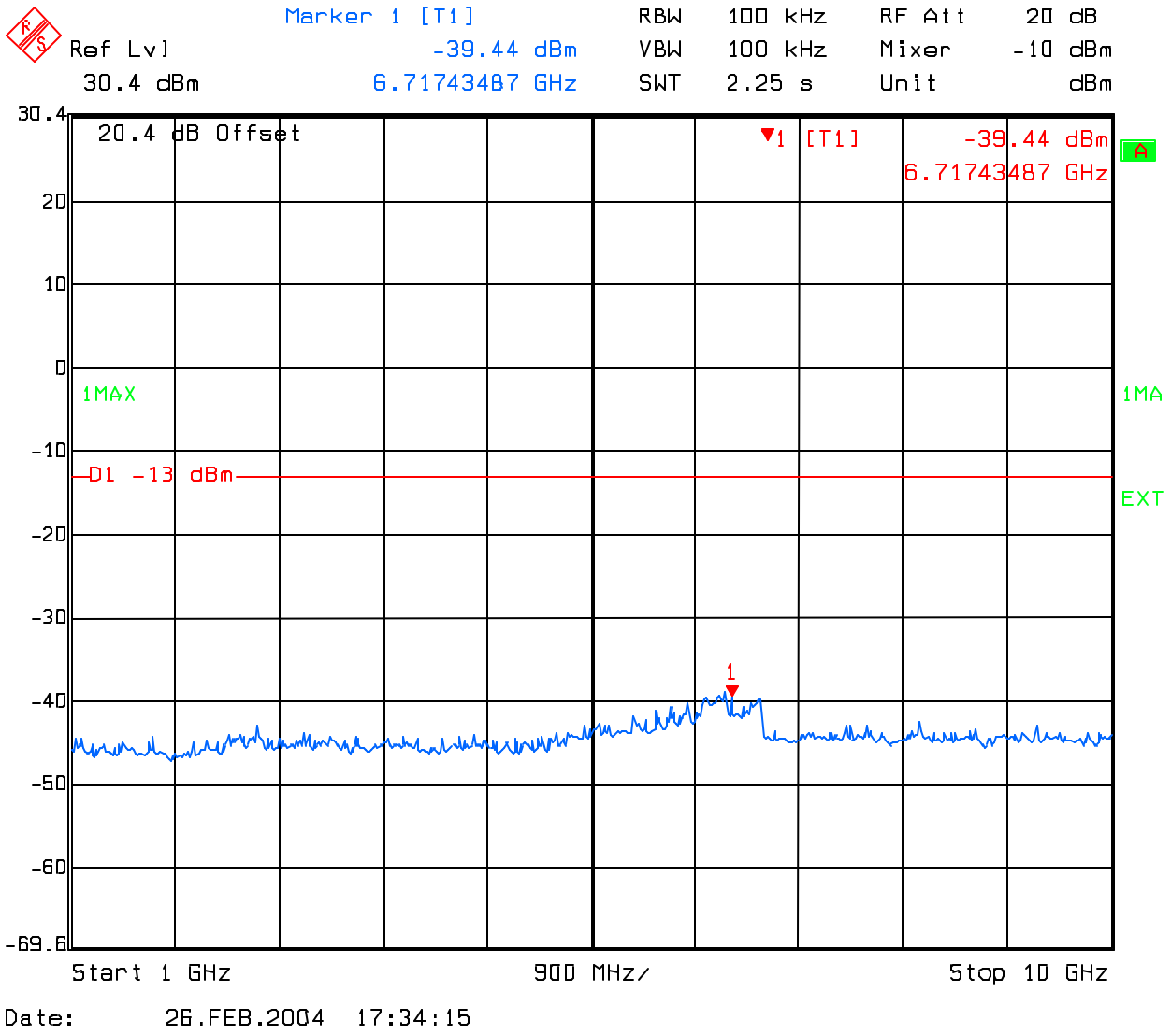


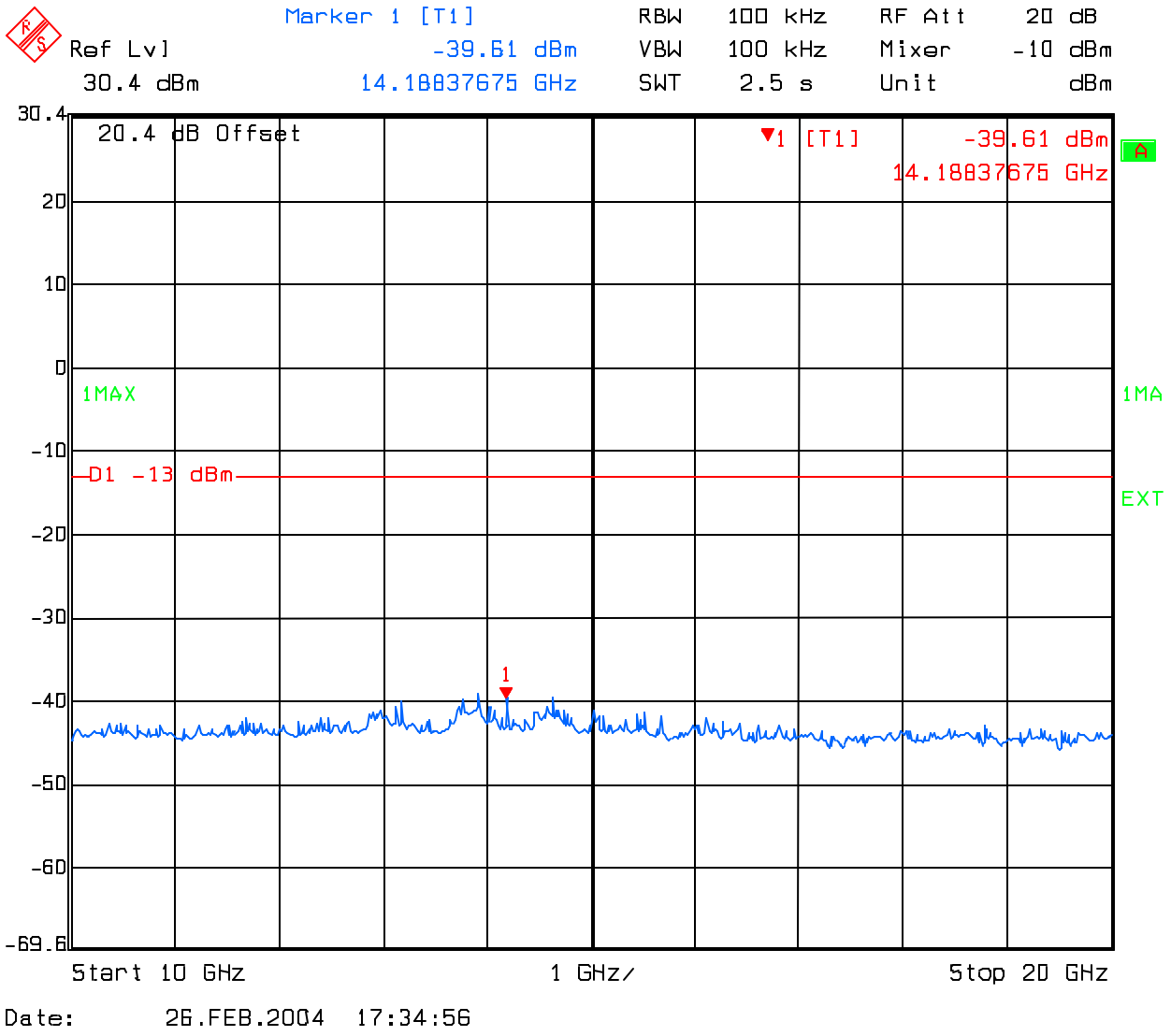

Marker 1 [T1]
Ref Lvl
40.2 dBm
-22.19 dBm
1.73947896 GHz
RBW 100 kHz
VBW 100 kHz
SWT 2.25 s
RF Att 20 dB
Mixer -10 dBm
Unit dBm
30.2 dB Offset
1MAX
1MA
EXT
D1 -13 dBm
1
40.2
30
20
10
0
-10
-20
-30
-40
-50
-59.8
Start 1 GHz
900 MHz/
Stop 10 GHz
Date: 26.FEB.2004 16:15:11


Marker 1 [T1]
Ref Lvl
40.2 dBm
-29.04 dBm
14.18837675 GHz
RBW 100 kHz
VBW 100 kHz
SWT 2.5 s
RF Att 20 dB
Mixer -10 dBm
Unit dBm
30.2 dB Offset
1MAX
1MA
EXT
D1 -13 dBm
1
40.2
30
20
10
0
-10
-20
-30
-40
-50
-59.8
Start 10 GHz
1 GHz/
Stop 20 GHz
Date: 26.FEB.2004 16:15:53

Uplink Spurs




Marker 1 [T1]
Ref Lvl
30.4 dBm
-39.44 dBm
6.71743487 GHz
RBW 100 kHz
VBW 100 kHz
SWT 2.25 s
RF Att 20 dB
Mixer -10 dBm
Unit dBm
20.4 dB Offset
▼1 [T1]
-39.44 dBm
6.71743487 GHz
1MAX
D1 -13 dBm
1MA
EXT
30.4
20
10
0
-10
-20
-30
-40
-50
-60
-69.6
Start 1 GHz
900 MHz/
Stop 10 GHz
Date: 26.FEB.2004 17:34:15


Marker 1 [T1]
Ref Lvl
30.4 dBm
-39.61 dBm
14.18837675 GHz
RBW 100 kHz
VBW 100 kHz
SWT 2.5 s
RF Att 20 dB
Mixer -10 dBm
Unit dBm
20.4 dB Offset
▼1 [T1]
-39.61 dBm
14.18837675 GHz
1MAX
D1 -13 dBm
1MA
EXT
30.4
20
10
0
-10
-20
-30
-40
-50
-60
-69.6
Start 10 GHz
1 GHz/
Stop 20 GHz
Date: 26.FEB.2004 17:34:56

Section 6. Field Strength of Spurious

NAME OF TEST: Field Strength of Spurious	PARA. NO.: 2.1053
TESTED BY: David Light	DATE: 2/27/2004

Test Results: Complies.

Test Data: No Emissions found within 20dB of Limit. Noise from was greater than 20dB below limit. Frequency range scanned from 30MHz to 20GHz

Equipment Used: 1464, 1016, 1464, 1485, 1484, 1304

Measurement Uncertainty: +/- 3.6 dB

Temperature: 21 ?C

Relative Humidity: 51 %

ERP Substitution Method

Page 1 of 2 Complete X

Job No.: 3L0494 Date: 2/27/04 Preliminary

Specification: PT 22 Temperature(°C): 22

Tested By: David Light Relative Humidity(%) 40

E.U.T.: Nnode c 937

Configuration: UPRIGHT ON TABLE - TX FULL POWER INTO LOAD

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: +/-1.7 dB

Frequency (MHz)	Meter Reading (dBm)	Substitution Level (dBm)		Pre-Amp Gain (dB)	Substitution Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarity	Comments
										UL-Tx @ 830 MHz
1660	-60.3	-61.7		32.4	7.3	-61.7	-13	-48.7000	V	Noise floor
2490	-60.0	-58.8		33.0	6.8	-58.8	-13	-45.8333	V	Noise floor
3320	-61.0	-53.8		32.6	8.0	-53.8	-13	-40.7667	V	Noise floor
4150	-61.5	-49.2		33.0	8.2	-49.2	-13	-36.1667	V	Noise floor
4980	-62.0	-51.1		33.1	8.7	-51.1	-13	-38.1000	V	Noise floor
5810	-62.1	-54.2		31.9	9.3	-54.2	-13	-41.1667	V	Noise floor
6640	-62.3	-52.5		31.5	9.4	-52.5	-13	-39.4667	V	Noise floor
7470	-62.5	-54.2		32.5	8.8	-54.2	-13	-41.1667	V	Noise floor
8300	-62.1	-52.3		33.0	9.1	-52.3	-13	-39.2667	V	Noise floor
1660	-60.3	-59.7		32.4	7.3	-59.7	-13	-46.7000	H	Noise floor
2490	-60.0	-56.0		33.0	6.8	-56.0	-13	-43.0000	H	Noise floor
3320	-61.0	-57.3		32.6	8.0	-57.3	-13	-44.2667	H	Noise floor
4150	-61.5	-59.7		33.0	8.2	-59.7	-13	-46.6667	H	Noise floor
4980	-62.0	-59.6		33.1	8.7	-59.6	-13	-46.6000	H	Noise floor
5810	-62.1	-56.2		31.9	9.3	-56.2	-13	-43.1667	H	Noise floor
6640	-62.3	-54.6		31.5	9.4	-54.6	-13	-41.6333	H	Noise floor
7470	-62.5	-54.7		32.5	8.8	-54.7	-13	-41.6667	H	Noise floor
8300	-62.1	-52.6		33.0	9.1	-52.6	-13	-39.6000	H	Noise floor

Notes: Searched spectrum to the 10th harmonic of carrier

Field Strength of Spurious Emissions

Page 1 of 2 Complete X

Job No.: 3L0494 Date: 2/27/04 Preliminary

Specification: PT 22 Temperature(°C): 22

Tested By: David Light Relative Humidity(%) 40

E.U.T.: Nnode c 937

Configuration: UPRIGHT ON TABLE - TX FULL POWER INTO LOAD

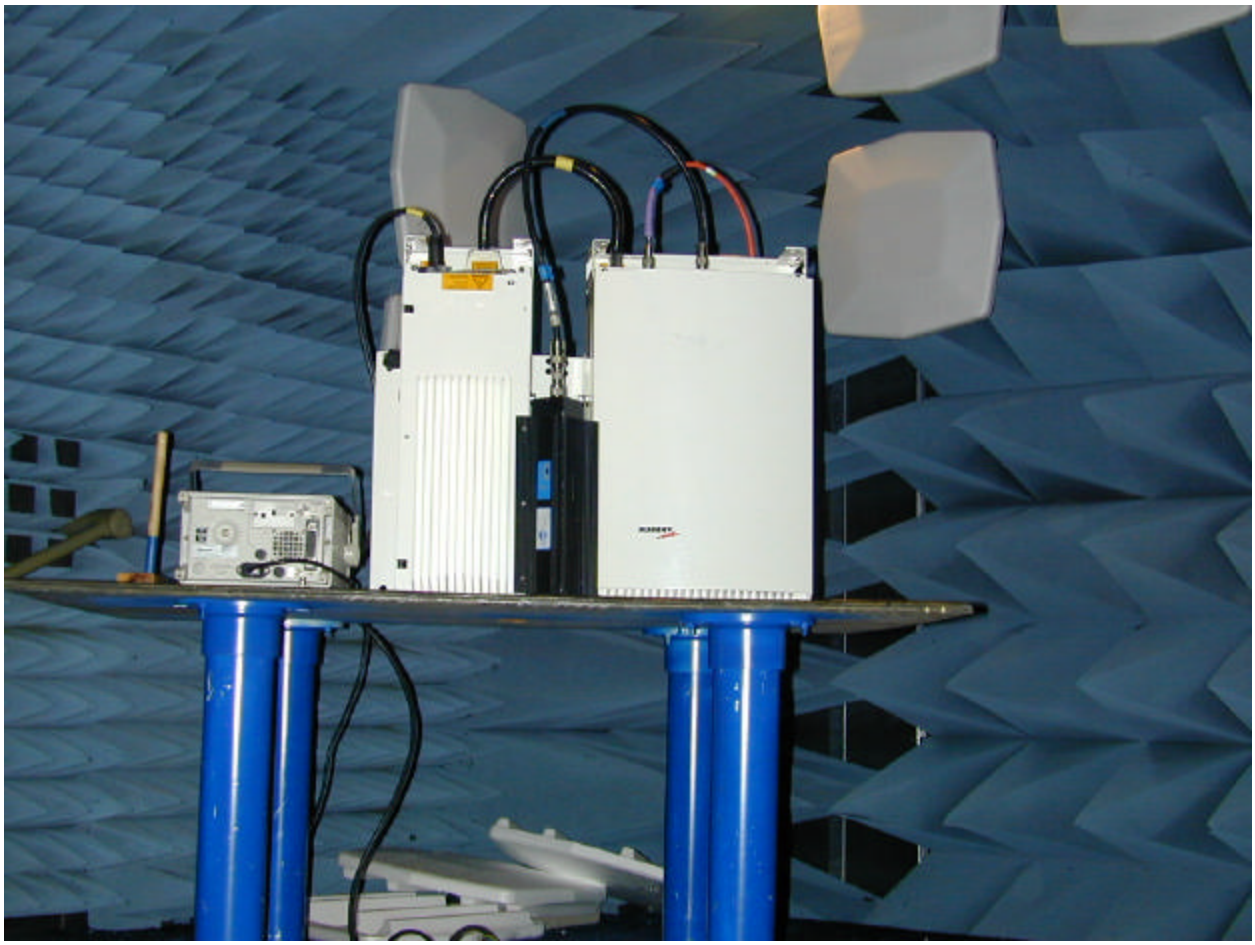
Sample No: 1

Frequency (MHz)	Meter Reading (dBm)	Correction Factor (dB)		Pre-Amp Gain (dB)	Substitution Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarity	Comments
										DL-Tx @ 875 MHz
1750	-61.2	31.0		32.4	7.3	31.0	-13	44.0000	V	Noise floor
2625	-60.8	35.5		33.0	8.0	35.5	-13	48.5000	V	Noise floor
3500	-61.7	43.3		32.6	8.6	43.3	-13	56.3333	V	Noise floor
4375	-63.3	45.3		33.0	8.2	45.3	-13	58.3333	V	Noise floor
5250	-63.3	41.3		33.1	8.2	41.3	-13	54.3333	V	Noise floor
6125	-62.8	40.5		31.9	9.6	40.5	-13	53.5000	V	Noise floor
7000	-62.5	40.8		31.5	8.8	40.8	-13	53.8333	V	Noise floor
7875	-62.3	41.8		32.5	9.2	41.8	-13	54.8333	V	Noise floor
8750	-63.2	44.8		33.0	9.4	44.8	-13	57.8333	V	Noise floor
1750	-61.2	33.0		32.4	7.3	33.0	-13	46.0000	H	Noise floor
2625	-60.8	35.5		33.0	8.0	35.5	-13	48.5000	H	Noise floor
3500	-61.7	35.5		32.6	8.6	35.5	-13	48.5000	H	Noise floor
4375	-63.3	34.8		33.0	8.2	34.8	-13	47.8333	H	Noise floor
5250	-63.3	38.3		33.1	8.2	38.3	-13	51.3333	H	Noise floor
6125	-62.8	38.7		31.9	9.6	38.7	-13	51.6667	H	Noise floor
7000	-62.5	40.3		31.5	8.8	40.3	-13	53.3333	H	Noise floor
7875	-62.3	41.5		32.5	9.2	41.5	-13	54.5000	H	Noise floor
8750	-63.2	42.2		33.0	9.4	42.2	-13	55.1667	H	Noise floor

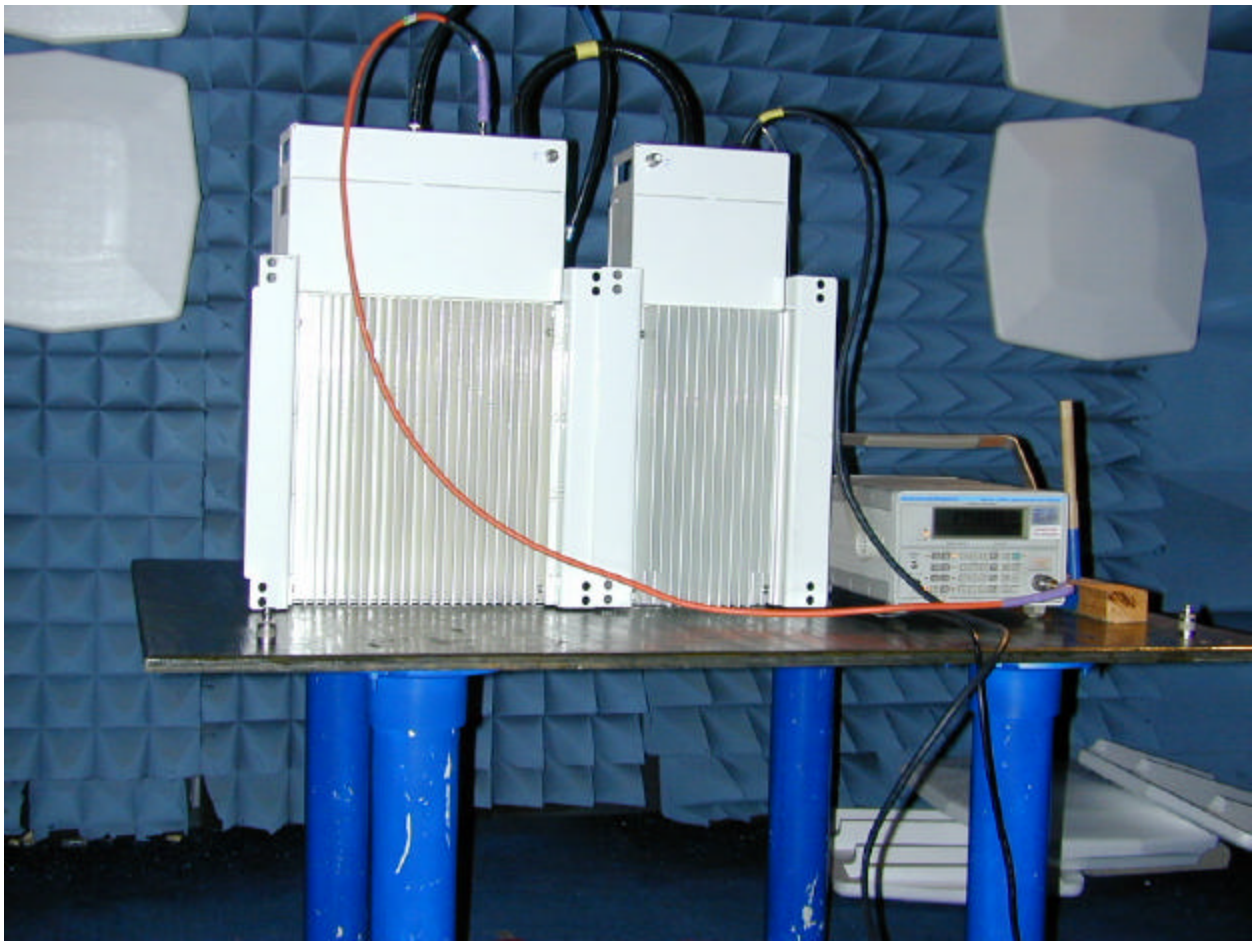
Notes:

Photographs of Test Setup

FRONT VIEW



REAR VIEW



Section 7. Frequency Stability

NAME OF TEST: Frequency Stability	PARA. NO.: 2.1055
TESTED BY:	DATE:

Test Results: Not Applicable

Test Data:

Standard Test Frequency: MHz
Standard Test Voltage:

Equipment Used:

Measurement Uncertainty: ppm

Nemko ID	Description	Manufacturer Model Number	Serial Number	Calibration Date	Calibration Due
1036	SPECTRUM ANALYZER	ROHDE & SCHWARZ FSEK30	830844/006	12/18/01	03/31/04
1626	CABLE, 5 ft	MEGAPHASE 10311 1GVT4	N/A	CBU	N/A
1627	CABLE, 5 ft	MEGAPHASE 10312 1GVT4	N/A	07/29/03	07/28/04
1064	ATTENUATOR	NARDA 776B-20	NONE	CBU	N/A
1469	10 db Attenuator DC 18 Ghz	MCL Inc. BW-S10W2 10db-2WDC	NONE	CBU	N/A
1053	SIGNAL GENERATOR	ROHDE & SCHWARZ SMIQ 03	DE22081	06/10/03	06/09/04
1464	Spectrum analyzer	Hewlett Packard 8563E	3551A04428	02/11/03	02/11/05
1016	Pre-Amp	HEWLETT PACKARD 8449A	2749A00159	10/27/03	10/26/04
1485	Cable 2.0-18.0 Ghz	Storm PR90-010-216	N/A	07/24/03	07/23/04
1484	Cable 2.0-18.0 Ghz	Storm PR90-010-072	N/A	07/24/03	07/23/04
1301	Torque wrench	Maury Microwave 8799D1	0	CNR	N/A

Section 8. Test Equipment List

ANNEX A - TEST DETAILS

NAME OF TEST: RF Power Output	**PARA. NO.: 2.1046**

Minimum Standard: Para. No. 22.913(a). The maximum effective radiated power (ERP) of base transmitters and cellular repeaters must not exceed 500 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.

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? $R^2 = E^2/120$? 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 (Voice & SAT) PARA. NO.: 2.1049

Minimum Standard: 22.917(c) The mean power of any emission removed from the carrier frequency by a displacement frequency (f_d in kHz) must be attenuated below the mean power of the unmodulated carrier (P) as follows:

(i) On any frequency removed from the carrier frequency by more than 12 kHz but not more than 20 kHz:

at least 117 log (f_d/12)

(ii) On any frequency removed from the carrier frequency by more than 20 kHz, up to the first multiple of the carrier frequency:

at least 100 log (f_d/11) dB or 43 + 10 log (P) dB, whichever is the lesser attenuation.

Method Of Measurement:

Spectrum Analyzer Settings:

RBW: 300 Hz
VBW: ? RBW
Span: 100 kHz
Sweep: Auto

Input Signal Characteristics (F3E/F3D):

RF level: Maximum recommended by manufacturer
AF1 frequency: 6 kHz
AF1 level: sufficient to produce 2 kHz deviation
AF2 frequency: 2.5 kHz
AF2 level: sufficient to produce 12 kHz deviation.

NAME OF TEST: Occupied Bandwidth (WB Data) PARA. NO.: 2.1049

Minimum Standard: 22.917(c) The mean power of any emission removed from the carrier frequency by a displacement frequency (f_d in kHz) must be attenuated below the mean power of the unmodulated carrier (P) as follows:

(1) On any frequency removed from the carrier frequency by more than 20 kHz but not more than 45 kHz:

at least 26 dB

(2) On any frequency removed from the carrier frequency by more than 45 kHz but not more than 90 kHz:

at least 45 dB

(3) On any frequency removed from the carrier frequency by more than 90 kHz, up to the first multiple of the carrier frequency:

at least 60 dB or 43 + 10 log (P) dB, whichever is the lesser attenuation.

Method Of Measurement:

Spectrum Analyzer Settings:
RBW: 300 Hz
VBW: ? RBW
Span: 200 kHz
Sweep: Auto

Input Signal Characteristics:
RF level: Maximum recommended by manufacturer
AF1 frequency: 10 kHz, random bit sequence
AF1 level: sufficient to produce 8 kHz deviation

NAME OF TEST: Occupied Bandwidth (ST)	**PARA. NO.: 2.1049**

Minimum Standard: 22.917(c) The mean power of any emission removed from the carrier frequency by a displacement frequency (f_d in kHz) must be attenuated below the mean power of the unmodulated carrier (P) as follows:

(1) On any frequency removed from the carrier frequency by more than 20 kHz but not more than 45 kHz:

at least 26 dB

(2) On any frequency removed from the carrier frequency by more than 45 kHz but not more than 90 kHz:

at least 45 dB

(3) On any frequency removed from the carrier frequency by more than 90 kHz, up to the first multiple of the carrier frequency:

at least 60 dB or 43 + 10 log (P) dB, whichever is the lesser attenuation.

Method Of Measurement:

Spectrum Analyzer Settings:
RBW: 300 Hz
VBW: ? RBW
Span: 200 kHz
Sweep: Auto

Input Signal Characteristics:
RF level: Maximum recommended by manufacturer
AF1 frequency: 10 kHz tone
AF1 level: sufficient to produce 8 kHz deviation

NAME OF TEST: Occupied Bandwidth (Digital Modulation) PARA. NO.: 2.1049

Minimum Standard: Not defined by FCC. Input vs. Output.

Method Of Measurement:

Spectrum Analyzer Settings:
RBW: CDMA (30 kHz), GSM (30 kHz), NADC (1 kHz) and CDPD (1 kHz)
VBW: ? RBW
Span: As required
Sweep: Auto

Input Signal Characteristics:
RF level: Maximum recommended by manufacturer

NAME OF TEST: Spurious Emission at Antenna Terminals PARA. NO.: 2.1051

Minimum Standard: Para. No. 22.917(e). The mean power of emissions must be attenuated below the mean power of the unmodulated carrier on any frequency twice or more than twice the fundamental emission by at least 43 + 10 log P. This is equivalent to -13 dBm absolute power.

Method Of Measurement:

Spectrum Analyzer Settings:
RBW: 30 kHz (AMPS). As required for digital modulations.
VBW: ? RBW
Start Frequency: 0 MHz
Stop Frequency: 10 GHz
Sweep: Auto

NAME OF TEST: Field Strength of Spurious Radiation PARA. NO.: 2.1053

Minimum Standard: Para. No. 22.917(e). The mean power of emissions must be attenuated below the mean power of the unmodulated carrier on any frequency twice or more than twice the fundamental emission by at least 43 + 10 log P. This is equivalent to -13 dBm absolute power.

Calculation Of Field Strength Limit:

An example of attenuation requirement of 43 + 10 Log P is equivalent to -13 dBm (5 x 10^{-5} Watts) at the antenna terminal. We determine the field strength limit by using the plane wave relation.

$GP/4?R^2 = E^2/120?$

For emissions ? 1 GHz:

G = 1.64 (Dipole Gain)
P = 10^{-5} Watts (Maximum spurious output power)
R = 3m (Measurement Distance)

$$E ? \frac{\sqrt{30GP}}{R}$$

$$E ? \frac{\sqrt{30 \text{ x } 1.64 \text{ x } 5 \text{ x } 10^{?5}}}{3} ? \ 0.016533 \text{ V / m} ? 84.4 \text{ dB?V / m}$$

For emissions > 1 GHz:

G = 1 (Isotropic Gain)
P = 1 x 10^{-5} Watts (Maximum spurious output power)
R = 3m (Measurement Distance)

$$E ? 84.4 ? 20Log\sqrt{1.64} ? 82.3dB?V / m@3m$$

The spectrum is searched to 10 GHz.

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

Minimum Standard: Para. No. 22.355. The transmitter carrier frequency shall remain within the tolerances given in Table C-1.

Table C-1

Freq. Range (MHz)	Base, fixed	Mobile > 3 W	Mobile ? 3 W
821 to 896	1.5	2.5	2.5

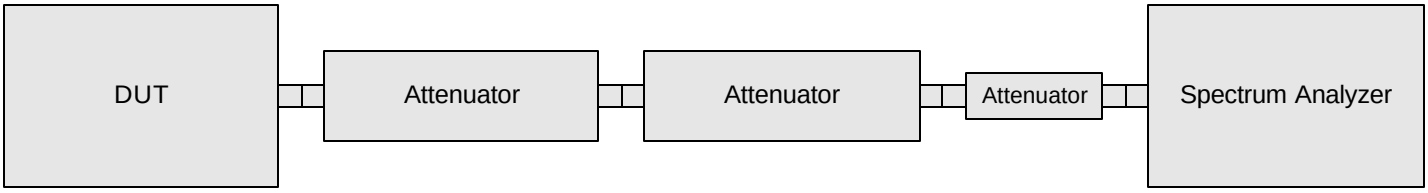
Method Of Measurement:

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.

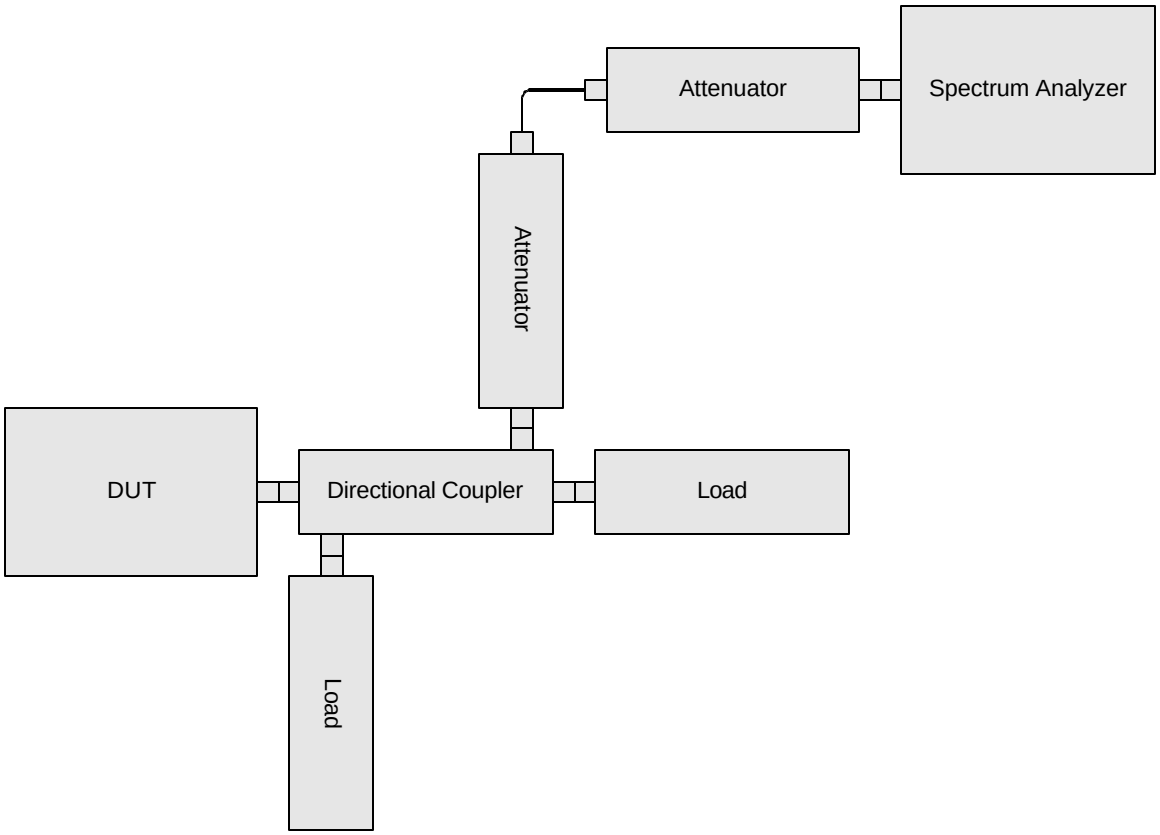
Frequency Stability With Temperature Variation:
The input voltage to the E.U.T. is set to S.T.V. and the temperature of the environmental chamber is varied in 10 degree steps from -30 degrees C to +50 degrees C. The E.U.T. is allowed to stabilize at each temperature and the frequency is measured in 30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

ANNEX B - TEST DIAGRAMS

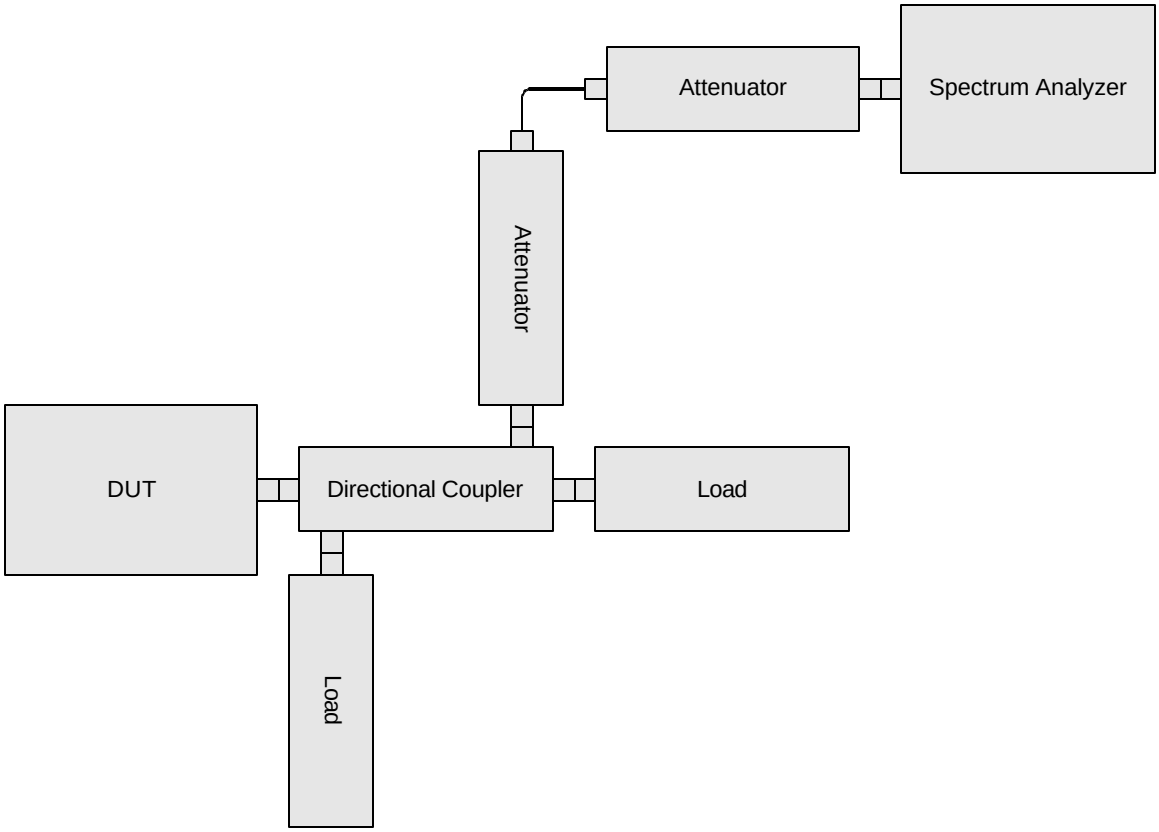
Para. No. 2.1046 - R.F. Power Output

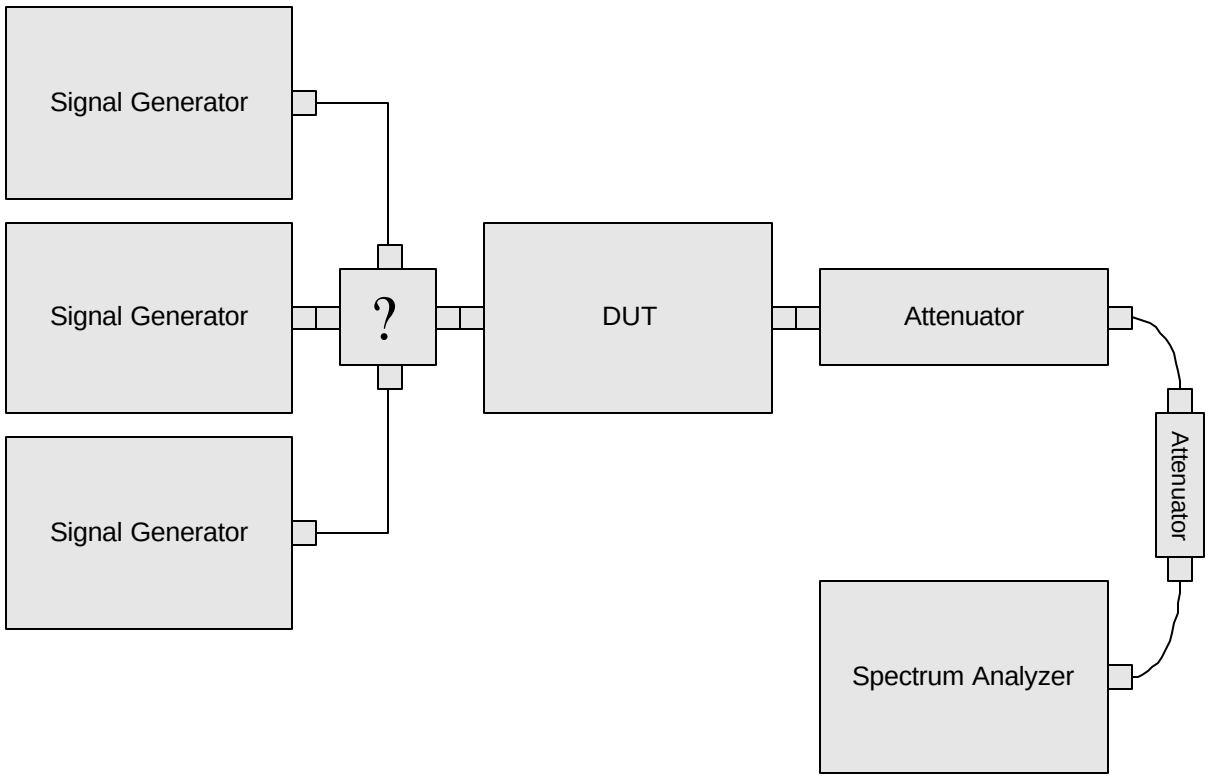


Para. No. 2.1049 - Occupied Bandwidth

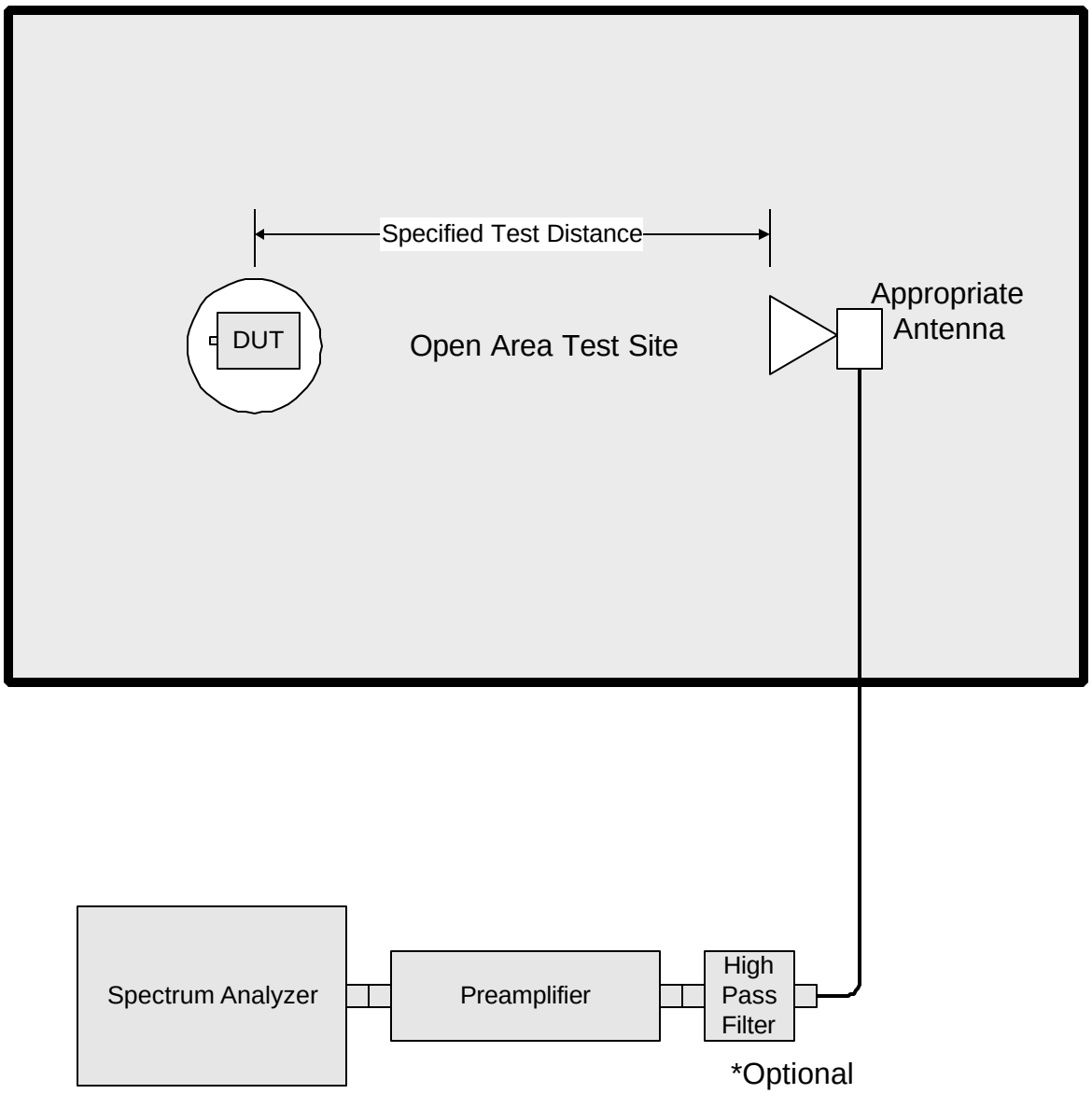


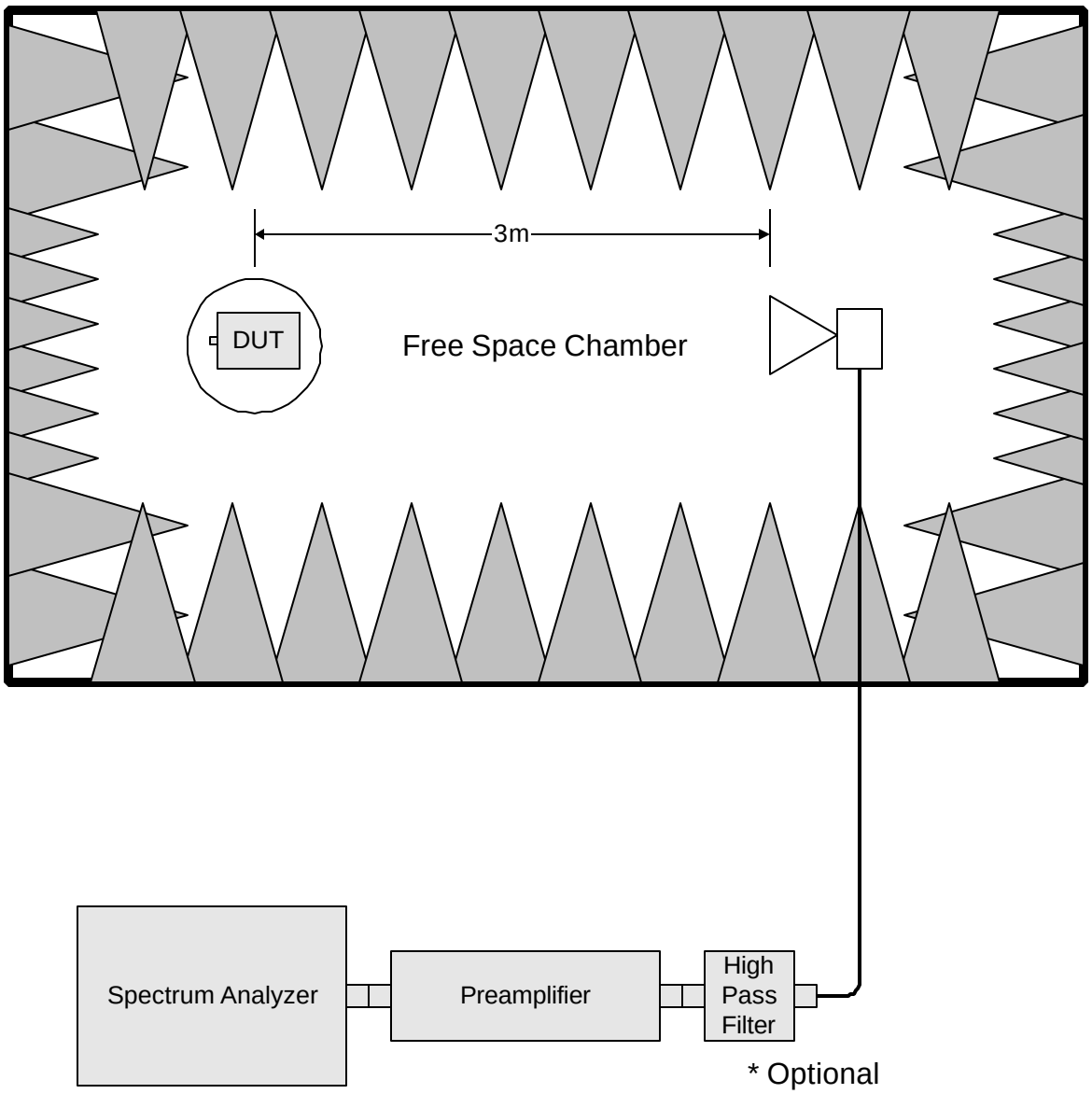
Para. No. 2.1051 Spurious Emissions at Antenna Terminals




Signal Generator
Signal Generator
Signal Generator
?
DUT
Attenuator
Attenuator
Spectrum Analyzer

Para. No. 2.1053 - Field Strength of Spurious Radiation




3m
DUT
Free Space Chamber
Spectrum Analyzer
Preamplifier
High Pass Filter
* Optional

Para. No. 2.1055 - Frequency Stability