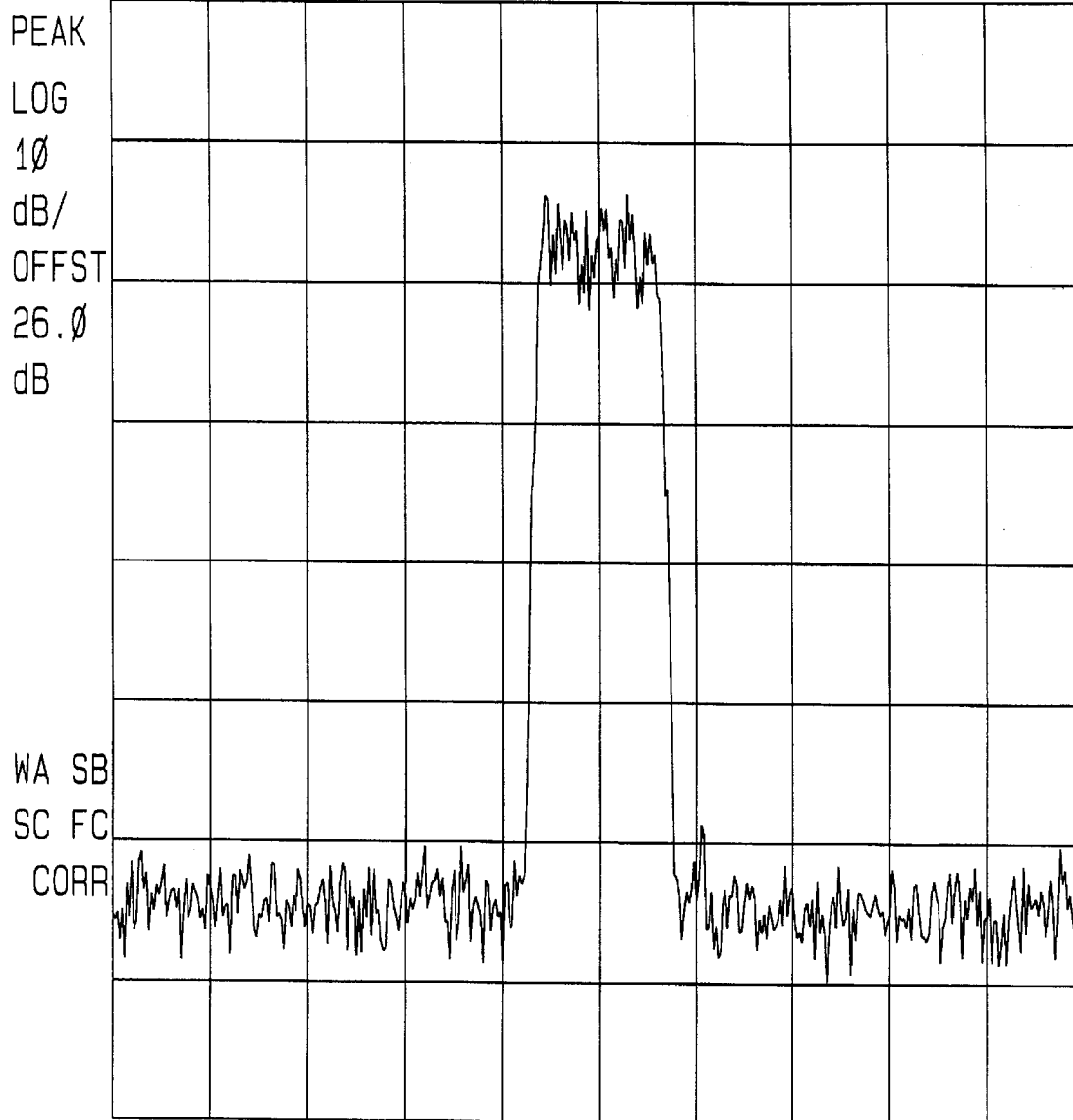


16:14:09 DEC 13, 2002

REF -9.0 dBm #AT 0 dB



CENTER 1.88000 GHz

SPAN 10.00 MHz

#RES BW 30 kHz

VBW 100 kHz

SWP 33.3 msec

Customer: Cellular Specialties, Inc.
Test Sample: Bidirectional Amplifier
Model No: 610 PCS
Test Method: Occupied Bandwidth, FCC Part 2, para 2.1049
Notes: Uplink Frequency 1880 MHz
Modulation: CDMA input

Date: 12/13/02

Tech: T. Firkowski

Sheet 1 of 12



Retlif Testing Laboratories

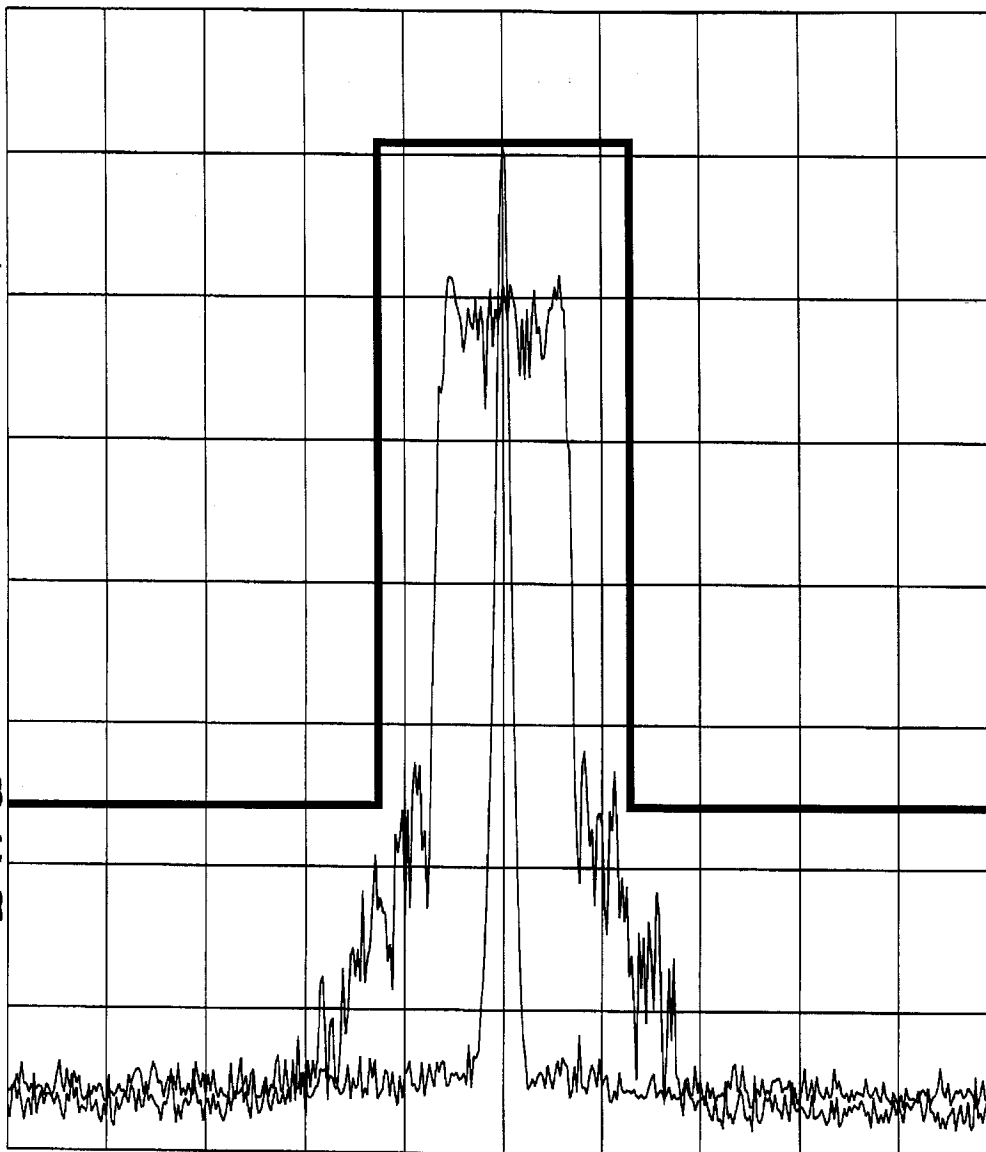
Report No R-4023N

16:11:46 DEC 13, 2002
hp

REF 35.0 dBm AT 30 dB

PEAK
LOG
10
dB/
OFFST
20.0
dB

VA VB
SC FC
CORR



CENTER 1.88000 GHz

SPAN 10.00 MHz

#RES BW 30 kHz

VBW 100 kHz

SWP 33.3 msec

Customer:
Test Sample:
Model No:
Test Method:
Notes:

Cellular Specialties, Inc.
Bidirectional Amplifier
610 PCS
Occupied Bandwidth, FCC Part 2, para 2.1049
Uplink Frequency 1880 MHz
Modulation: CDMA output

Date: 12/13/02

Tech: T. Firkowski

Sheet 2 of 12

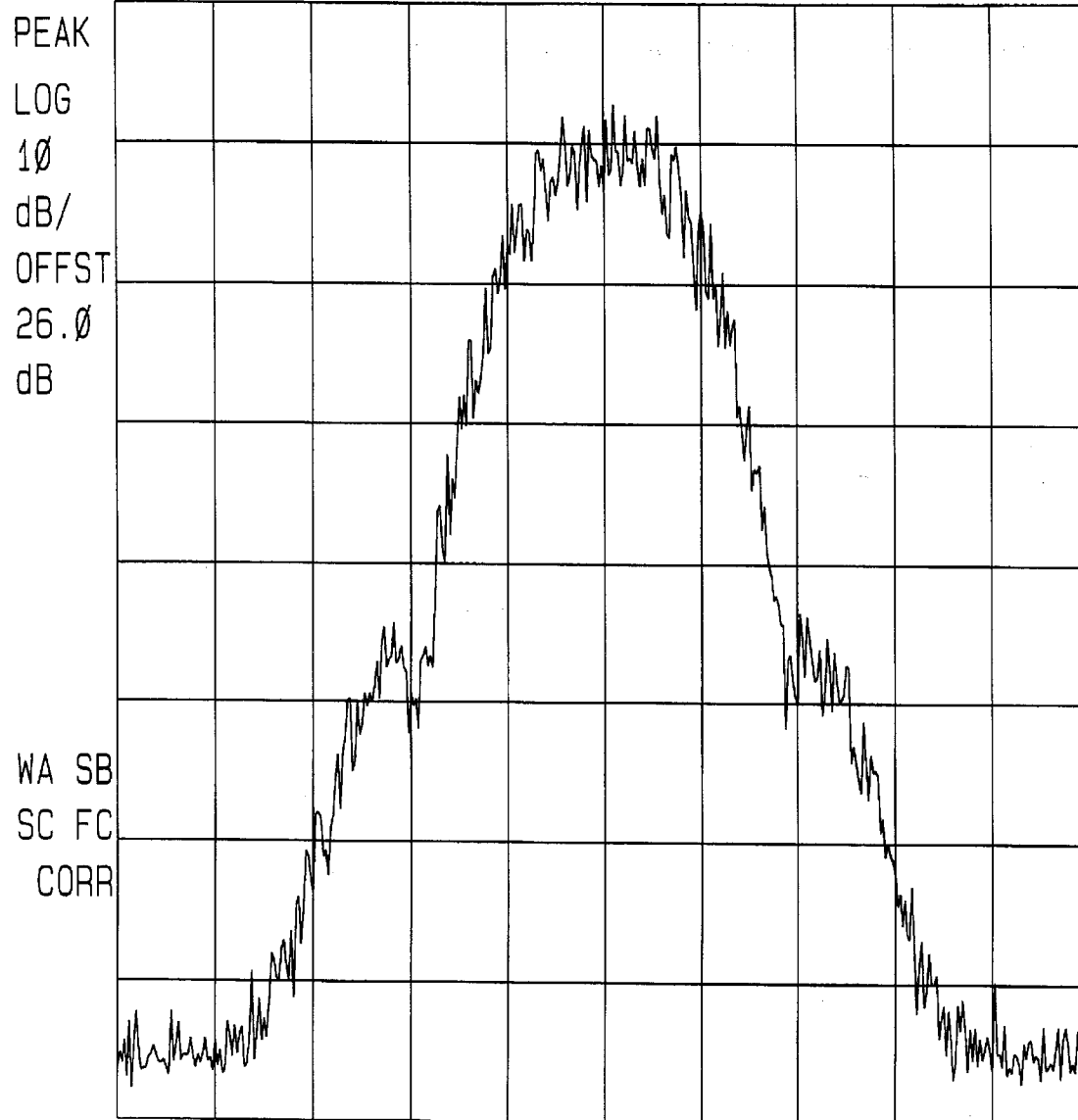


Retlif Testing Laboratories

Report No R-4023N

17:24:33 DEC 13, 2002
hp

REF -9.0 dBm #AT 0 dB



CENTER 1.880000 GHz

SPAN 1.000 MHz

#RES BW 3.0 kHz

VBW 10 kHz

SWP 333 msec

Customer: Cellular Specialties, Inc.
Test Sample: Bidirectional Amplifier
Model No: 610 PCS
Test Method: Occupied Bandwidth, FCC Part 2, para 2.1049
Notes: Uplink Frequency 1880 MHz
Modulation: GSM input

Date: 12/13/02

Tech: T. Firkowski

Sheet 3 of 12



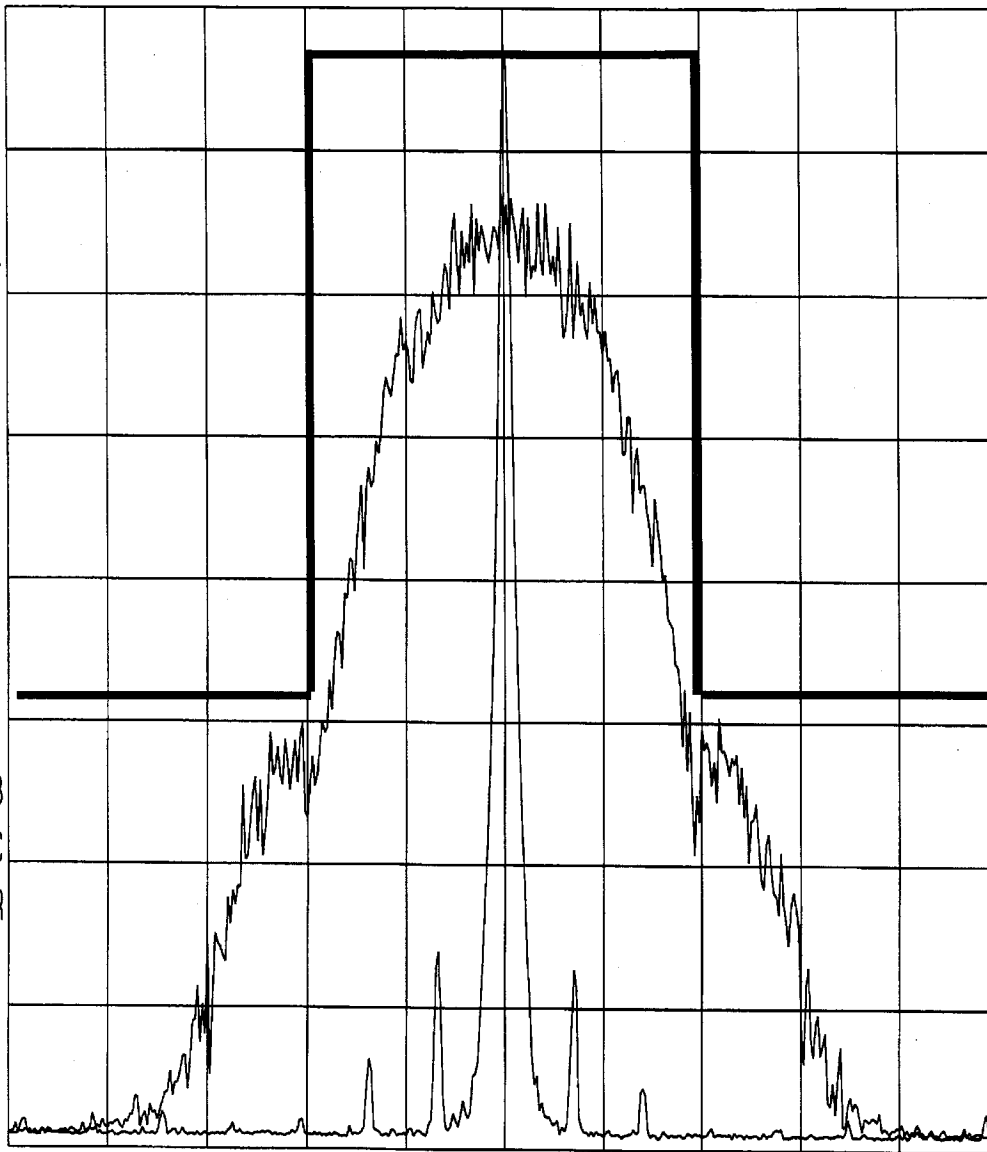
Retlif Testing Laboratories

Report No R-4023N

17: 23: 24 DEC 13, 2002

REF 35.0 dBm AT 30 dB

PEAK
LOG
10
dB/
OFFST
20.0
dB



CENTER 1.880000 GHz

```
#RES BW 3.0 kHz
```

VBW 10 kHz

SPAN 1.000 MHz

SWP 333 msec

Customer:	Cellular Specialties, Inc.
Test Sample:	Bidirectional Amplifier
Model No:	610 PCS
Test Method:	Occupied Bandwidth, FCC Part 2, para 2.1049
Notes:	Uplink Frequency 1880 MHz Modulation: GSM output

Date: 12/13/02

Tech: T. Firkowski

Sheet 4 of 12

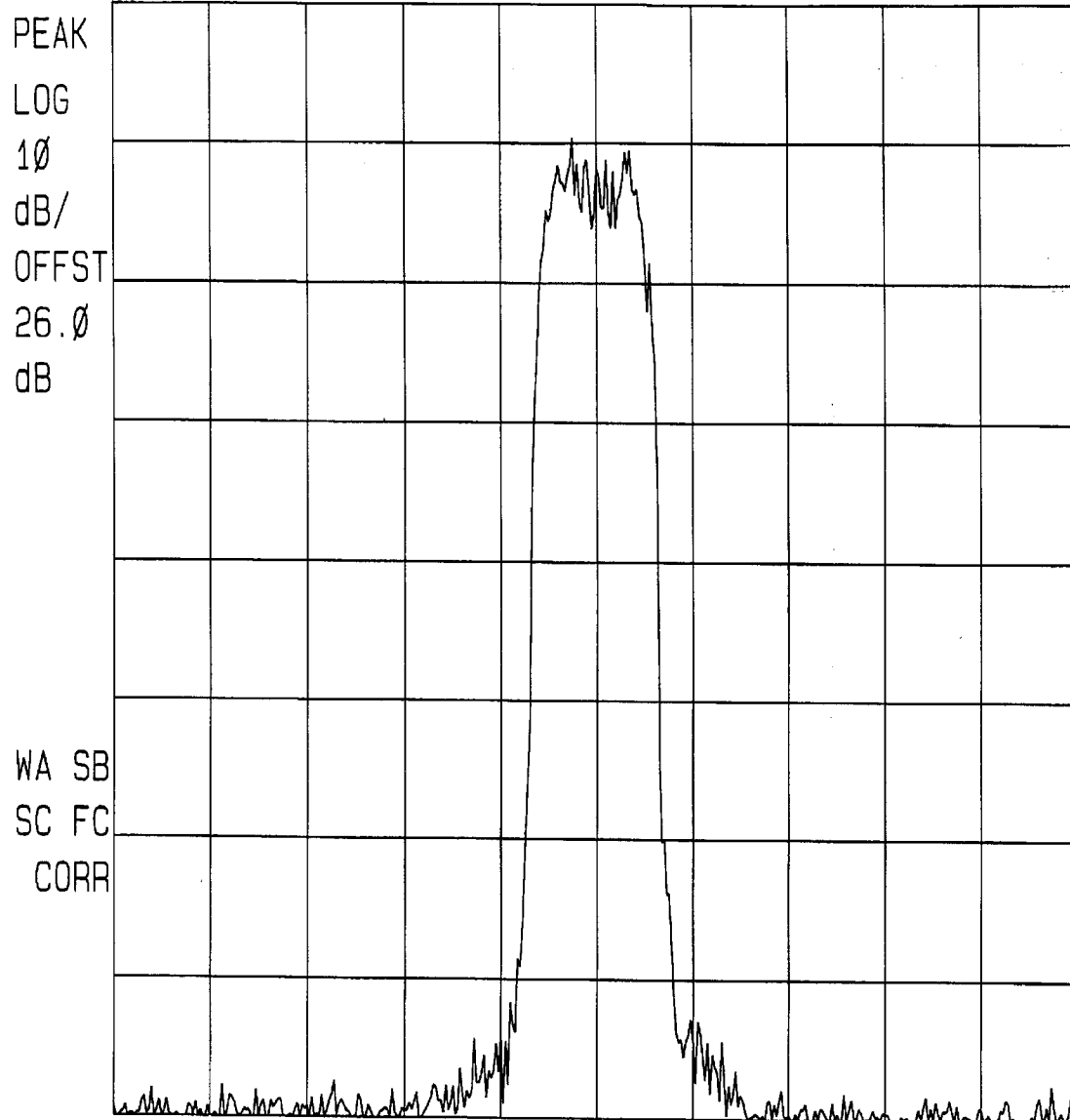


Retlif Testing Laboratories

Report No R-4023N

16:51:59 DEC 13, 2002
HP

REF -9.0 dBm #AT 0 dB



CENTER 1.8800000 GHz

SPAN 250.0 kHz

#RES BW 300 Hz

VBW 1 kHz

SWP 8.33 sec

Customer: Cellular Specialties, Inc.
Test Sample: Bidirectional Amplifier
Model No: 610 PCS
Test Method: Occupied Bandwidth, FCC Part 2, para 2.1049
Notes: Uplink Frequency 1880 MHz
Modulation: TDMA input

Date: 12/13/02

Tech: T. Firkowski

Sheet 5 of 12

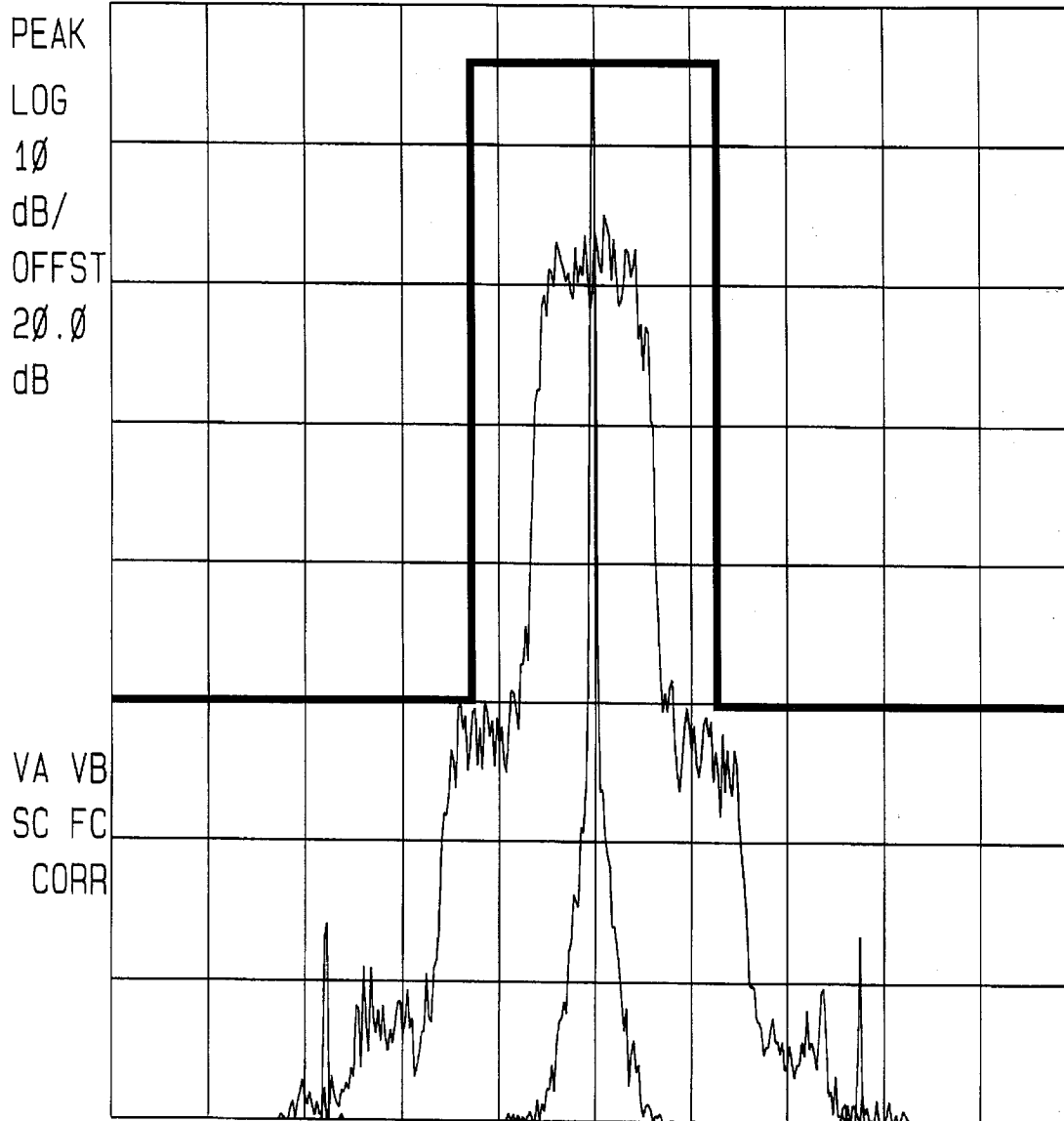


Retlif Testing Laboratories

Report No R-4023N

16:49:48 DEC 13, 2002
hp

REF 35.0 dBm AT 30 dB



CENTER 1.8800000 GHz

SPAN 250.0 kHz

#RES BW 300 Hz

VBW 1 kHz

SWP 8.33 sec

Customer: Cellular Specialties, Inc.
Test Sample: Bidirectional Amplifier
Model No: 610 PCS
Test Method: Occupied Bandwidth, FCC Part 2, para 2.1049
Notes: Uplink Frequency 1880 MHz
Modulation: TDMA output

Date: 12/13/02

Tech: T. Firkowski

Sheet 6 of 12

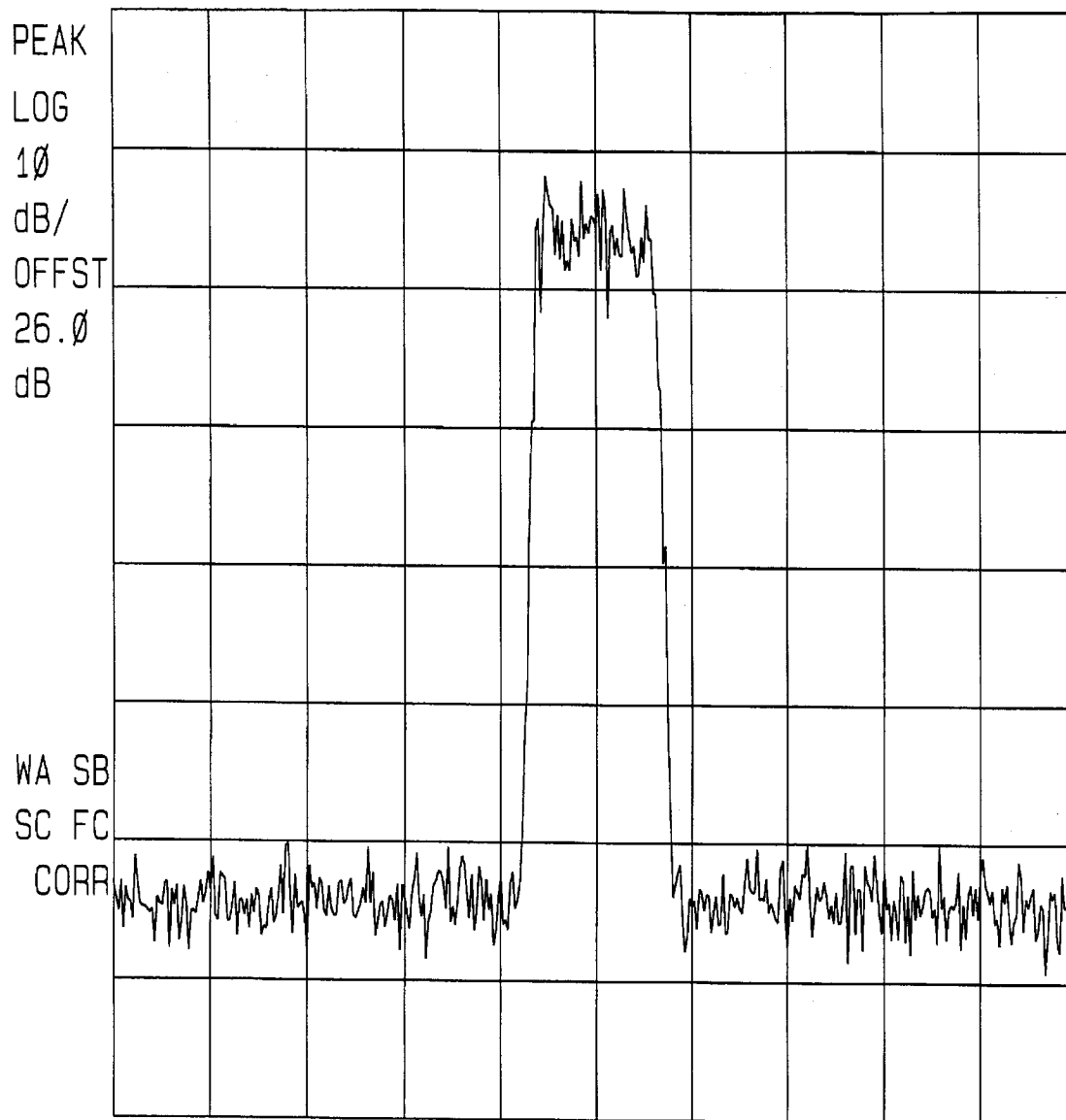


Retlif Testing Laboratories

Report No R-4023N

17:16:52 DEC 13, 2002
hp

REF -9.0 dBm #AT 0 dB



CENTER 1.96000 GHz

SPAN 10.00 MHz

#RES BW 30 kHz

VBW 100 kHz

SWP 33.3 msec

Customer: Cellular Specialties, Inc.
Test Sample: Bidirectional Amplifier
Model No: 610 PCS
Test Method: Occupied Bandwidth, FCC Part 2, para 2.1049
Notes: Downlink Frequency 1960 MHz
Modulation: CDMA input

Date: 12/13/02

Tech: T. Firkowski

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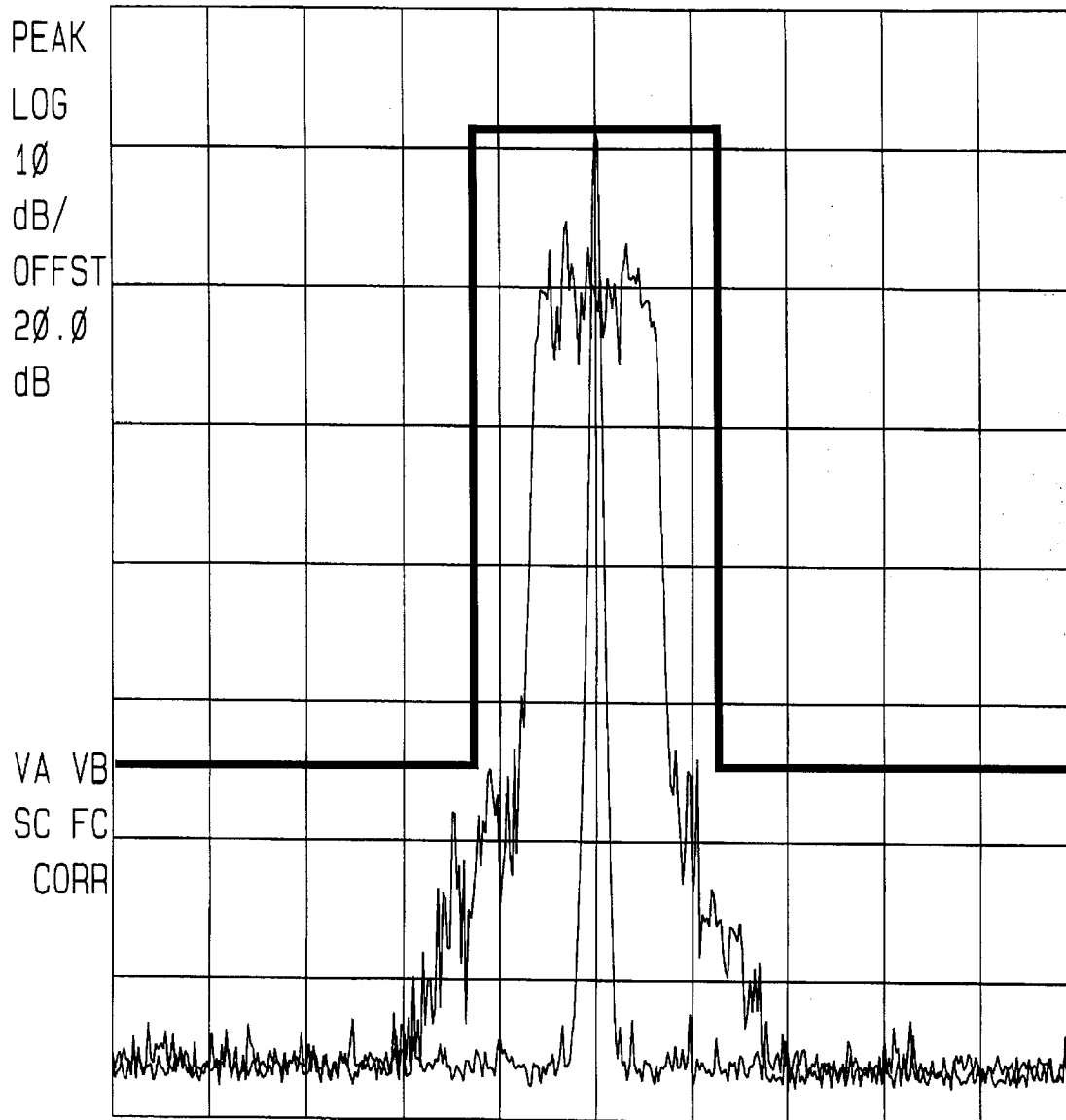


Retlif Testing Laboratories

Report No R-4023N

17:15:42 DEC 13, 2002

REF 35.0 dBm AT 30 dB



CENTER 1.96000 GHz

SPAN 10.00 MHz

#RES BW 30 kHz

VBW 100 kHz

SWP 33.3 msec

Customer: Cellular Specialties, Inc.
Test Sample: Bidirectional Amplifier
Model No: 610 PCS
Test Method: Occupied Bandwidth, FCC Part 2, para 2.1049
Notes: Downlink Frequency 1960 MHz
Modulation: CDMA output

Date: 12/13/02

Tech: T. Firkowski

Sheet 8 of 12

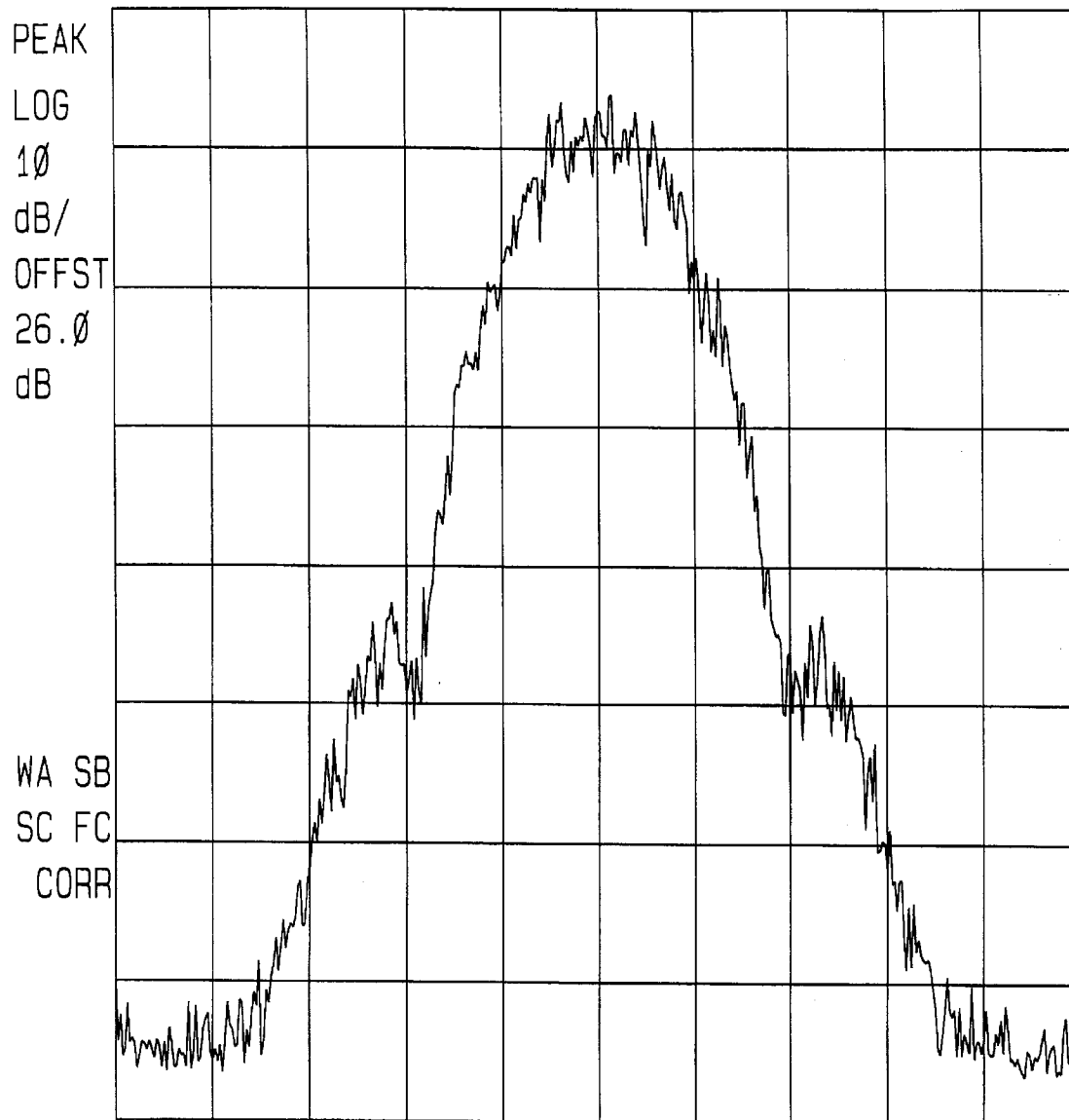


Retlif Testing Laboratories

Report No R-4023N

17:21:20 DEC 13, 2002
hp

REF -9.0 dBm #AT 0 dB



CENTER 1.960000 GHz

SPAN 1.000 MHz

#RES BW 3.0 kHz

VBW 10 kHz

SWP 333 msec

Customer: Cellular Specialties, Inc.
Test Sample: Bidirectional Amplifier
Model No: 610 PCS
Test Method: Occupied Bandwidth, FCC Part 2, para 2.1049
Notes: Downlink Frequency 1960 MHz
Modulation: GSM input

Date: 12/13/02

Tech: T. Firkowski

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Retlif Testing Laboratories

Report No R-4023N

AT 30 dB

PEAK

LOG

10

dB/

OFFST

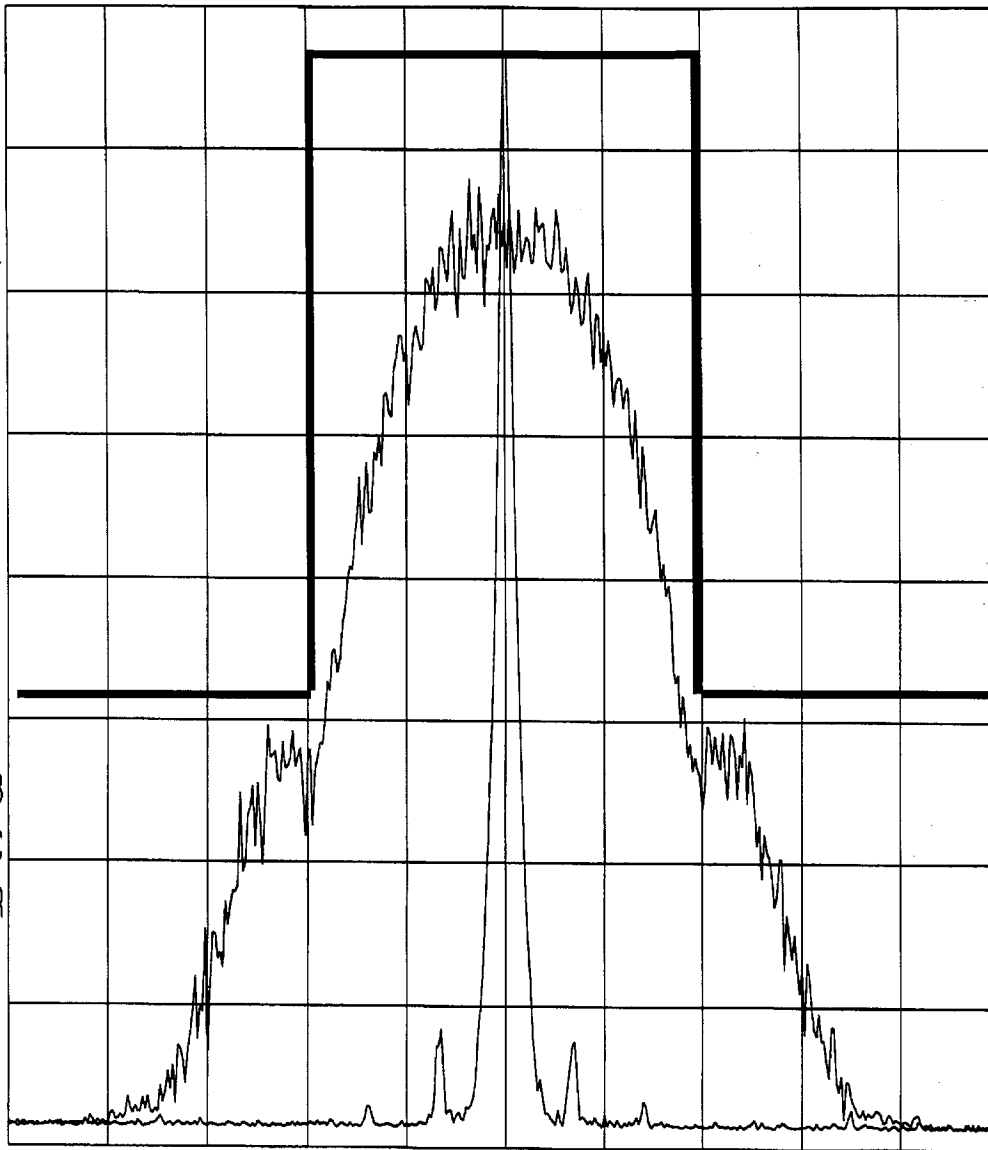
20.0

dB

VA VB

SC FC

CORR



CENTER 1.960000 GHz

```
#RES BW 3.0 kHz
```

SPAN 1.000 MHz

SWP 333 msec

VBW 10 kHz

Customer:

Test Sample:

Model No:

Test Method:

Notes:

Cellular Specialties, Inc.

Bidirectional Amplifier

610 PCS

Occupied Bandwidth, FCC Part 2, para 2.1049

Downlink Frequency 1960 MHz

Modulation: GSM output

Date: 12/13/02

Tech: T. Firkowski

Sheet 10 of 12



Retlif Testing Laboratories

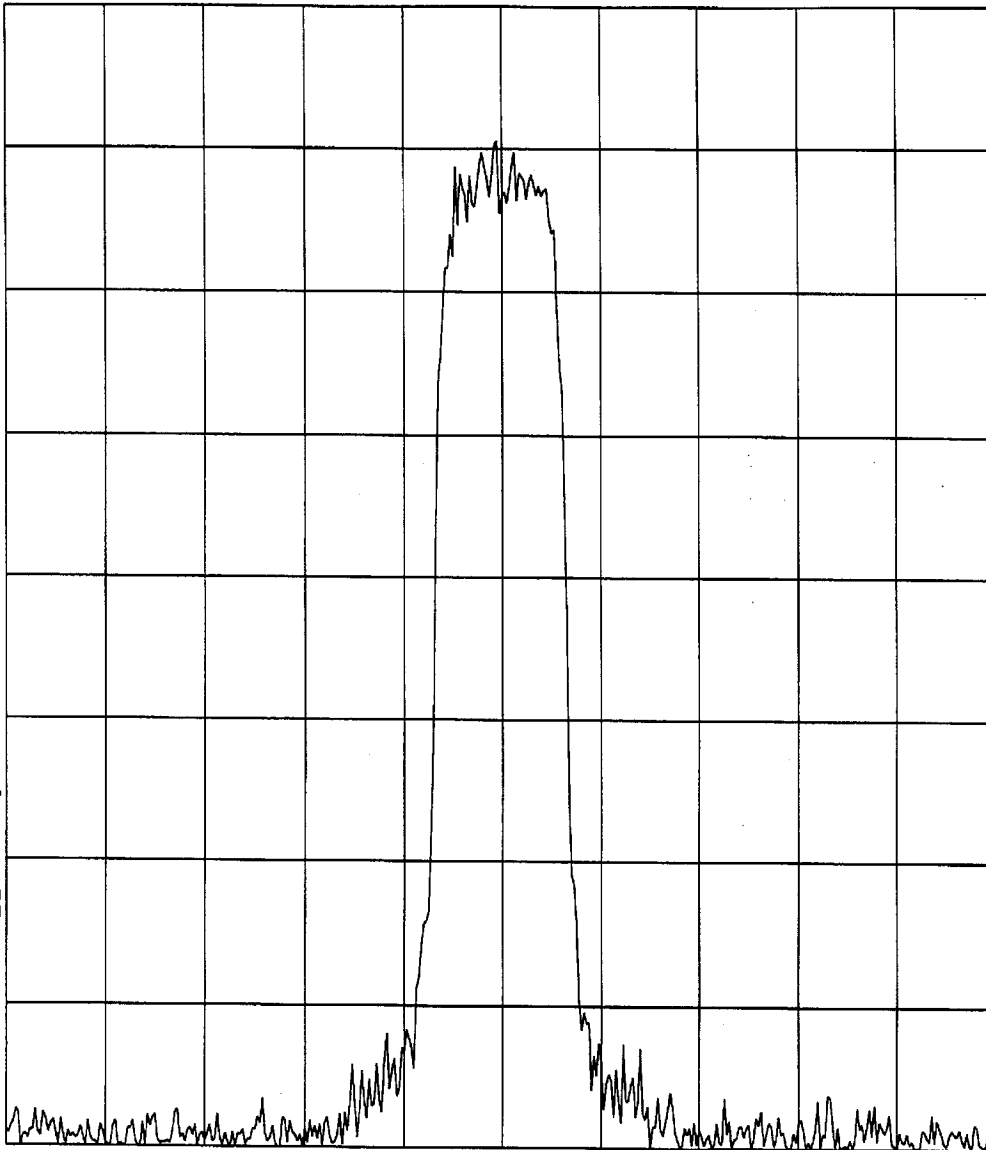
Report No R-4023N

16:56:10 DEC 13, 2002

REF -9.0 dBm #AT 0 dB

PEAK
LOG
10
dB/
OFFST
26.0
dB

WA SB
SC FC
CORR



CENTER 1.9600000 GHz

SPAN 250.0 kHz

#RES BW 300 Hz

VBW 1 kHz

SWP 8.33 sec

Customer: Cellular Specialties, Inc.
Test Sample: Bidirectional Amplifier
Model No: 610 PCS
Test Method: Occupied Bandwidth, FCC Part 2, para 2.1049
Notes: Downlink Frequency 1960 MHz
Modulation: TDMA input

Date: 12/13/02

Tech: T. Firkowski

Sheet 11 of 12

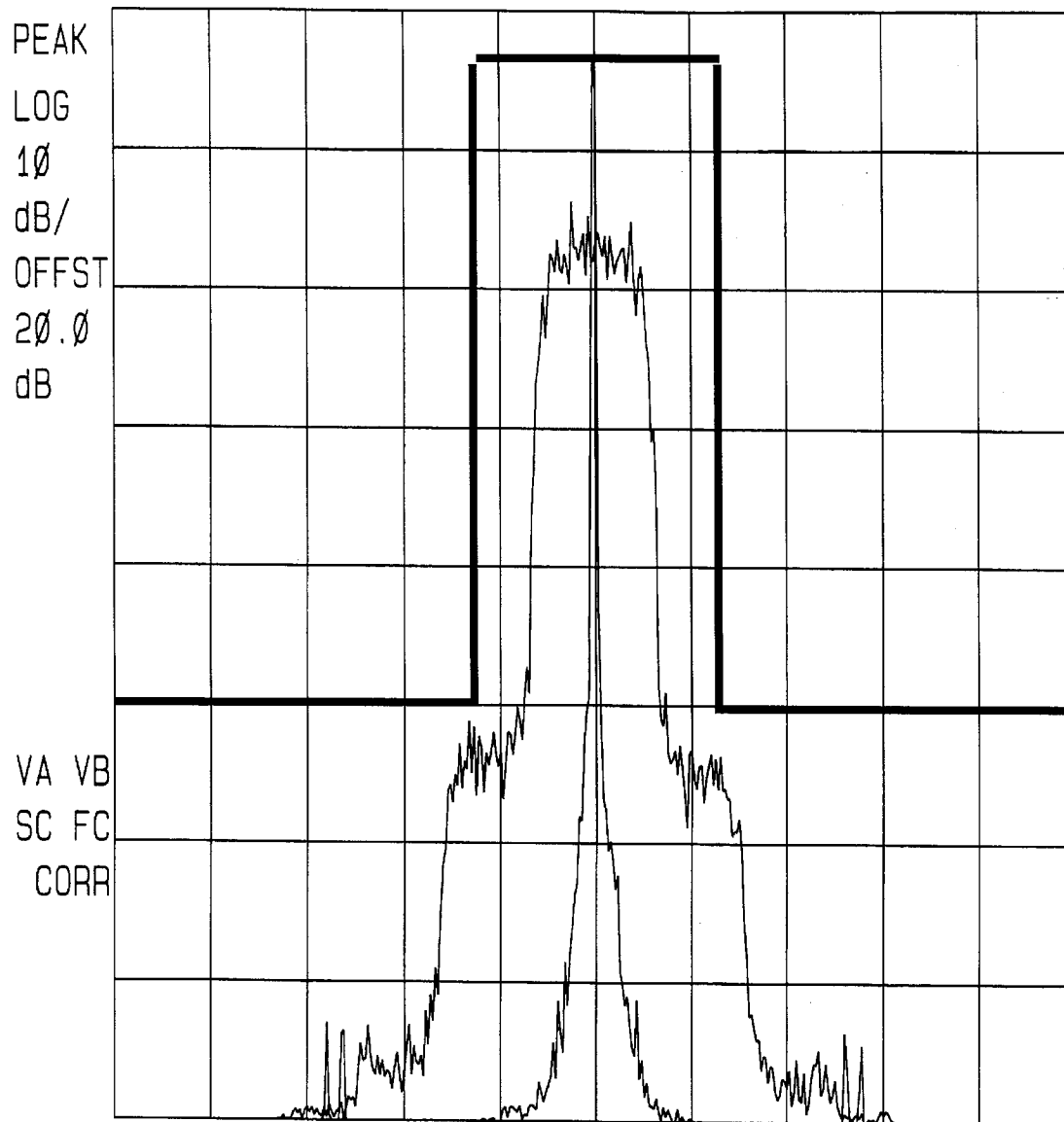


Retlif Testing Laboratories

Report No R-4023N

16:54:35 DEC 13, 2002
hp

REF 35.0 dBm AT 30 dB



CENTER 1.9600000 GHz

SPAN 250.0 kHz

#RES BW 300 Hz

VBW 1 kHz

SWP 8.33 sec

Customer: Cellular Specialties, Inc.
Test Sample: Bidirectional Amplifier
Model No: 610 PCS
Test Method: Occupied Bandwidth, FCC Part 2, para 2.1049
Notes: Downlink Frequency 1960 MHz
Modulation: TDMA output

Date: 12/13/02

Tech: T. Firkowski

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Report No R-4023N