

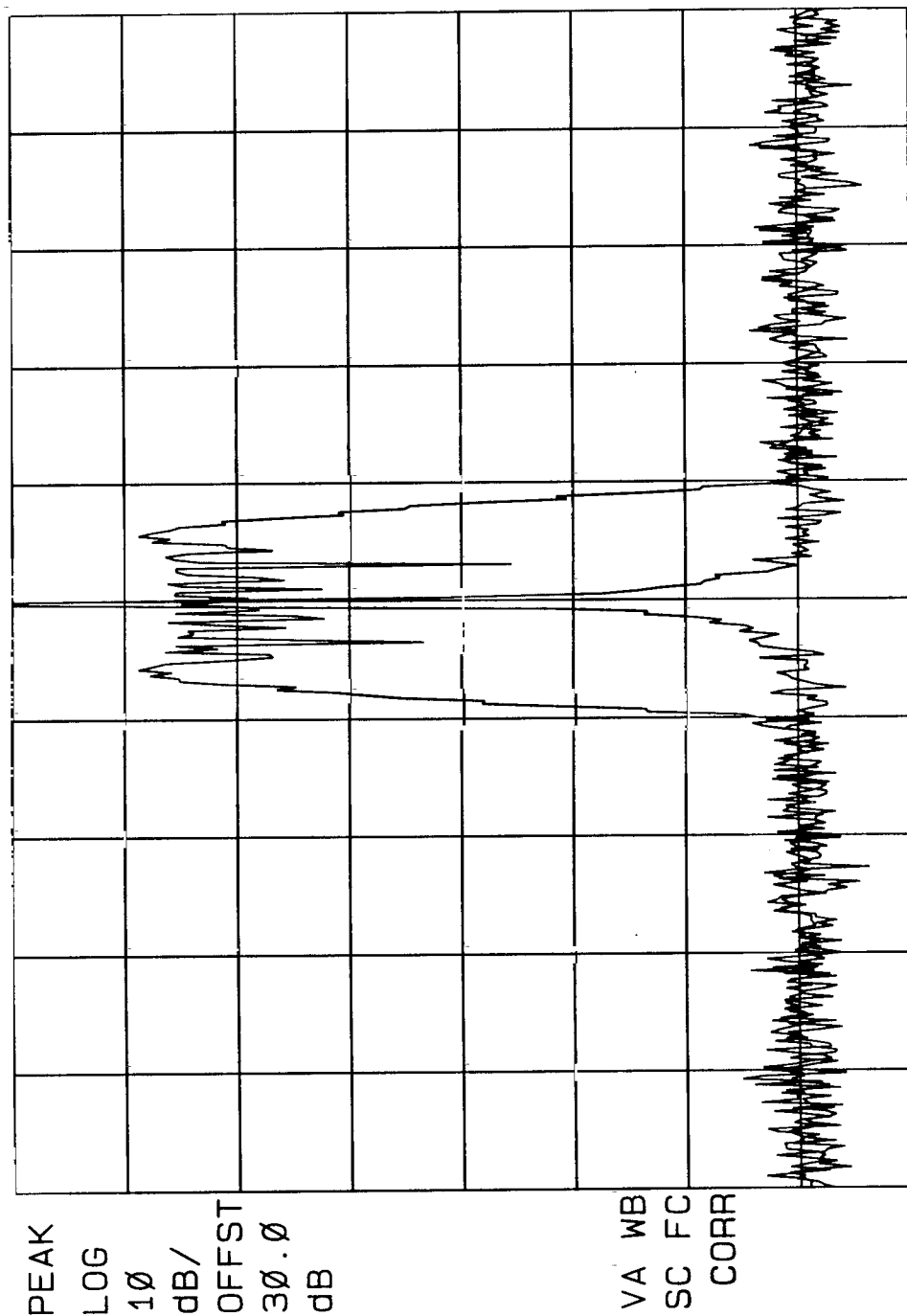
# RETLIF TESTING LABORATORIES

|                    |                                                                            |            |         |
|--------------------|----------------------------------------------------------------------------|------------|---------|
| Test Method        | Occupied Bandwidth                                                         |            |         |
| Customer           | Cellular Specialties                                                       | Job No.    | R-3483N |
| Test Sample        | Mini Bidirectional Amplifier                                               |            |         |
| Model No.          | 110                                                                        | Serial No. | n/a     |
| Test Specification | FCC Parts 2 and 90                                                         | Paragraph  | 2.989   |
| Operating Mode     | Amplifying cellular telephone signals                                      |            |         |
| Technician         | T. Cricco                                                                  | Date       | 8/19/99 |
| Notes              | Uplink - With 16KHz sine wave FM Modulation applied to the carrier signal. |            |         |

Sheet 1 of 24

12:19:42 AUG 19, 1999  
 R-3483N CELLULAR - OCC BW - UPLINK INPUT

REF -11.8 dBm AT 10 dB



CENTER 806.0000 MHZ  
 #RES BW 300 HZ  
 #VBW 1 KHZ  
 SPAN 250.0 KHZ  
 SWP 8.33 SEC

# RETLIF TESTING LABORATORIES

Test Method

Occupied Bandwidth

Customer

Cellular Specialties

Job No.

R-3483N

Test Sample

Mini Bidirectional Amplifier

Model No.

110

Serial No.

n/a

Test Specification

FCC Parts 2 and 90

Paragraph

2.989

Operating Mode

Amplifying cellular telephone signals

Technician

T. Cricco

Date

8/19/99

Notes

Uplink - With 16KHz sine wave FM Modulation applied to the carrier signal.

Sheet 2 of 24

12:21:54 AUG 19, 1999

R-3483N CELLULAR - OCC BW UPLINK OUTPUT

REF 26.4 dBm AT 10 dB

PEAK

LOG

10

dB/

OFFST

30.0

dB

VA WB

SC FC

CORR

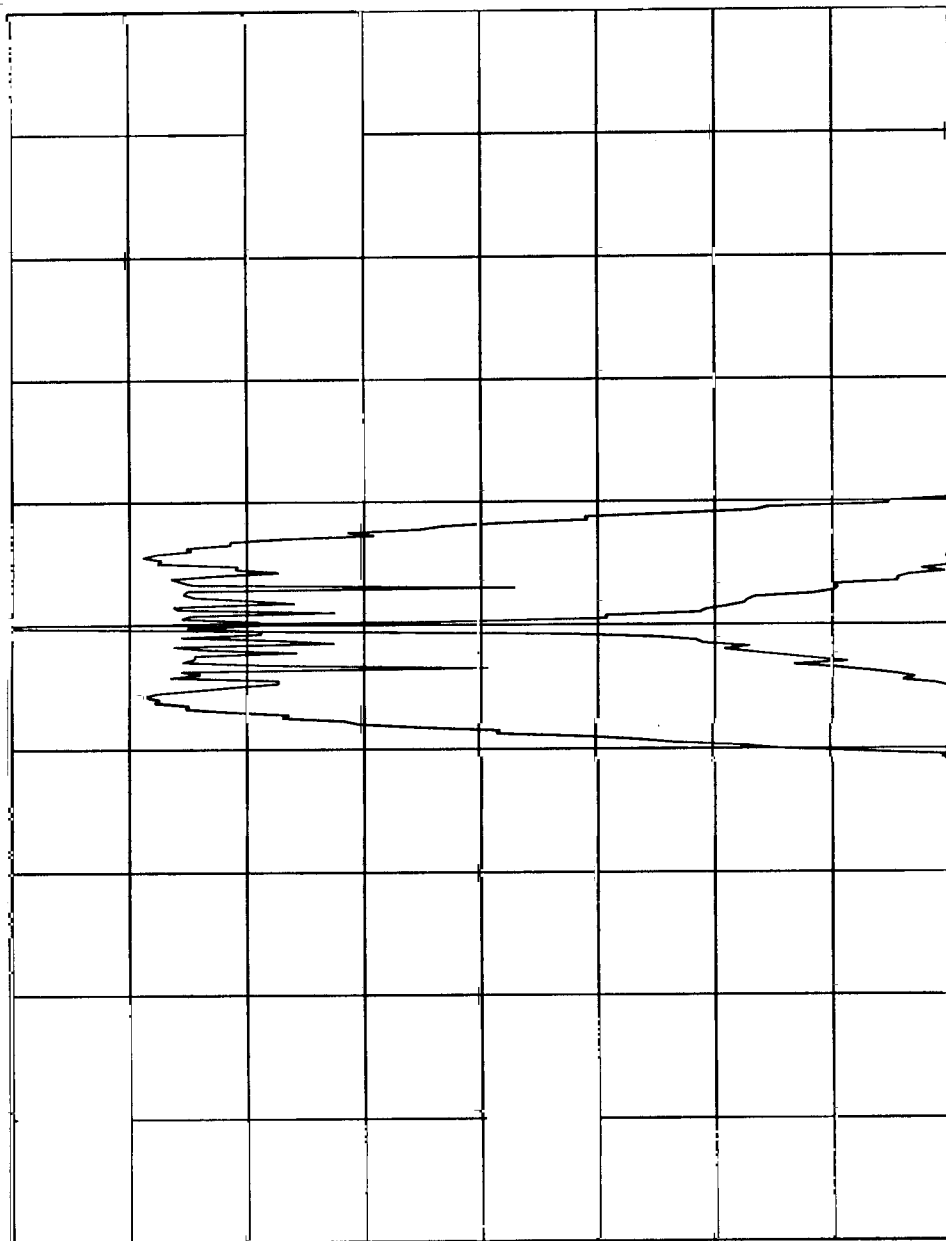
CENTER 806.0000 MHZ

#RES BW 300 HZ

SPAN 250.0 KHZ

SWP 8.33 sec

#VBW 1 KHZ

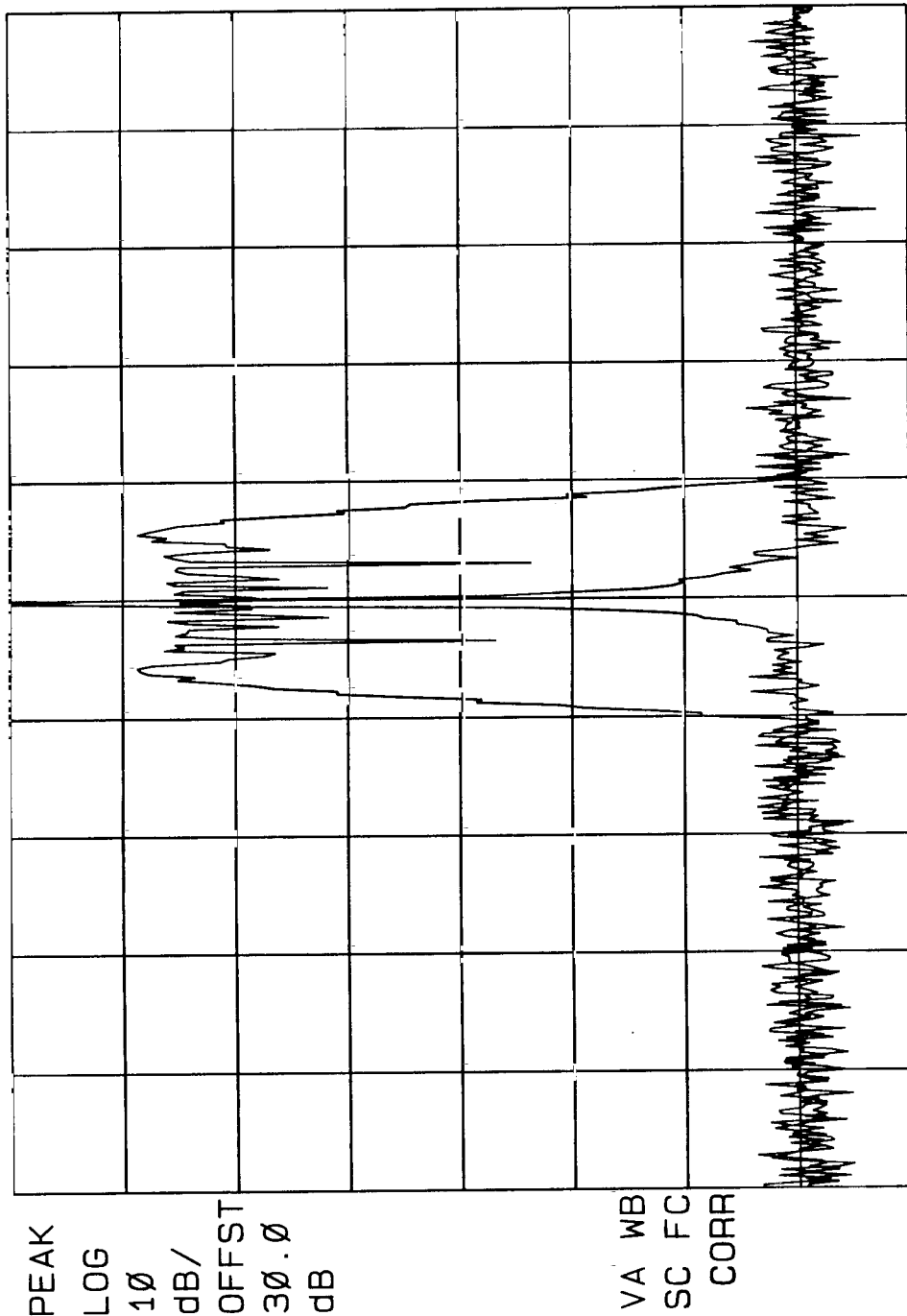


# RETLIF TESTING LABORATORIES

|                    |                                                                            |            |                 |
|--------------------|----------------------------------------------------------------------------|------------|-----------------|
| Test Method        | Occupied Bandwidth                                                         |            |                 |
| Customer           | Cellular Specialties                                                       | Job No.    | R-3483N         |
| Test Sample        | Mini Bidirectional Amplifier                                               |            |                 |
| Model No.          | 110                                                                        | Serial No. | n/a             |
| Test Specification | FCC Parts 2 and 90                                                         |            | Paragraph 2.989 |
| Operating Mode     | Amplifying cellular telephone signals                                      |            |                 |
| Technician         | T. Cricco                                                                  | Date       | 8/19/99         |
| Notes              | Uplink - With 16KHz sine wave FM Modulation applied to the carrier signal. |            |                 |

Sheet 3 of 24

12: 24: 04 AUG 19, 1999  
 R-3483N CELLULAR - OCC BW INPUT  
 REF -11.8 dBm AT 10 dB



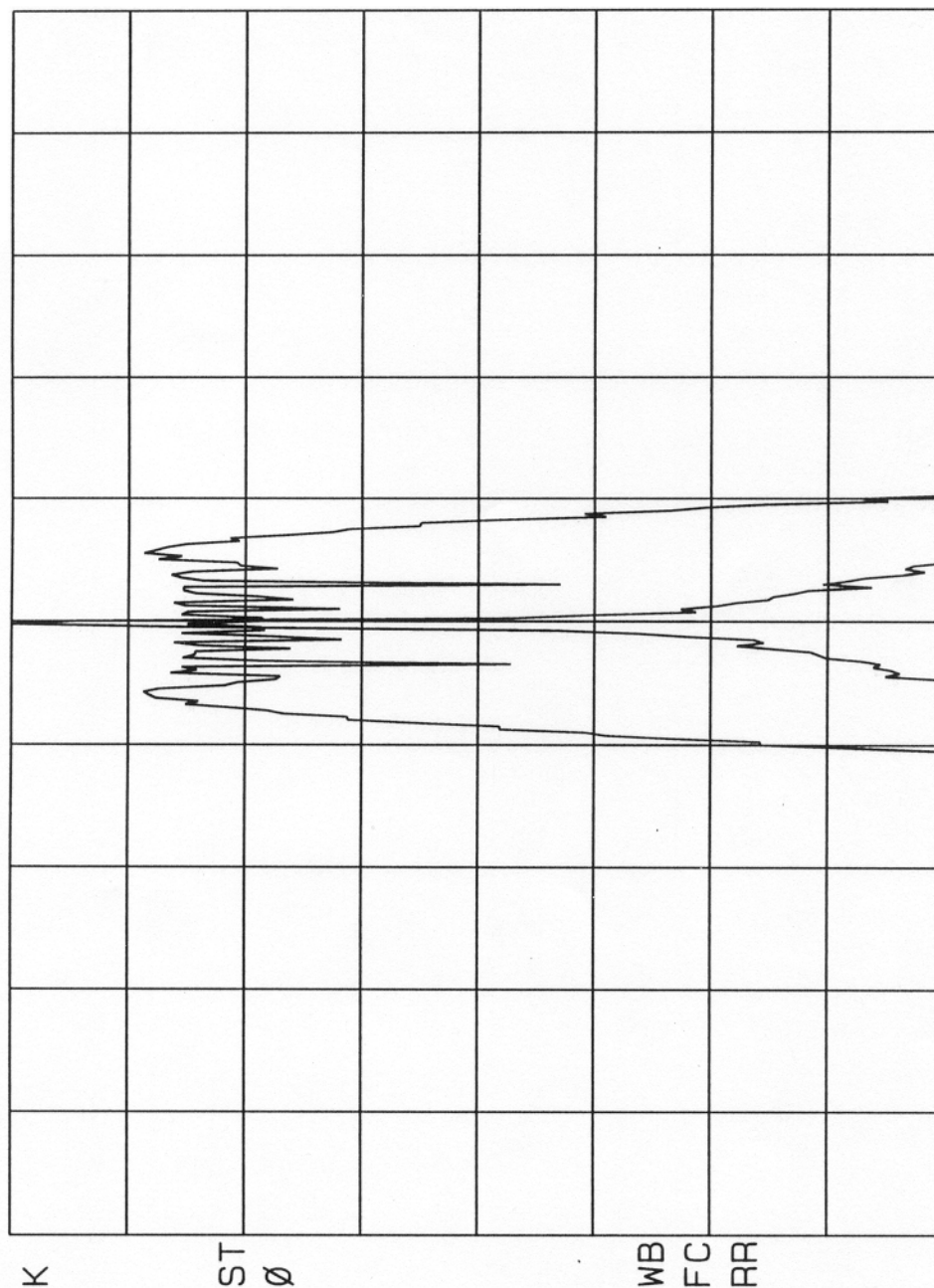
CENTER 814.0000 MHZ  
 #RES BW 300 HZ  
 #VBW 1 KHZ  
 SPAN 250.0 KHZ  
 SWP 8.33 sec

# RETLIF TESTING LABORATORIES

|                    |                                                                            |            |                 |
|--------------------|----------------------------------------------------------------------------|------------|-----------------|
| Test Method        | Occupied Bandwidth                                                         |            |                 |
| Customer           | Cellular Specialties                                                       | Job No.    | R-3483N         |
| Test Sample        | Mini Bidirectional Amplifier                                               |            |                 |
| Model No.          | 110                                                                        | Serial No. | n/a             |
| Test Specification | FCC Parts 2 and 90                                                         |            | Paragraph 2.989 |
| Operating Mode     | Amplifying cellular telephone signals                                      |            |                 |
| Technician         | T. Cricco                                                                  | Date       | 8/19/99         |
| Notes              | Uplink - With 16KHz sine wave FM Modulation applied to the carrier signal. |            |                 |

Sheet 4 of 24

:25:57 AUG 19, 1999  
R-3483N CELLULAR - OCC BW - UPLINK - OUTPUT  
26.4 dBm AT 10 dB



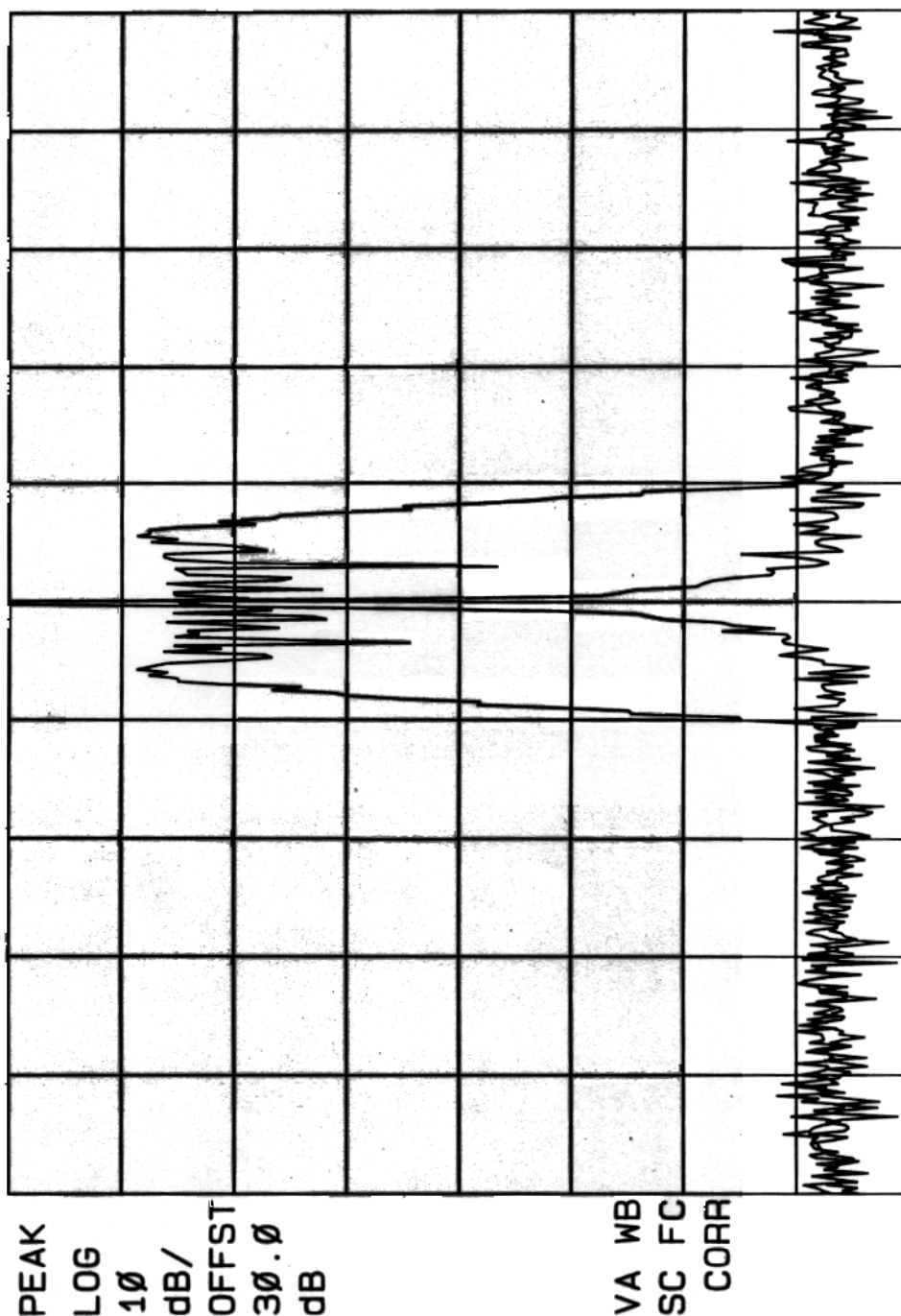
TER 814.0000 MHz  
#RES BW 300 Hz  
#VBW 1 kHz  
SPAN 250.0 kHz  
SWP 8.33 sec

# RETLIF TESTING LABORATORIES

|                    |                                                                            |            |         |
|--------------------|----------------------------------------------------------------------------|------------|---------|
| Test Method        | Occupied Bandwidth                                                         |            |         |
| Customer           | Cellular Specialties                                                       | Job No.    | R-3483N |
| Test Sample        | Mini Bidirectional Amplifier                                               |            |         |
| Model No.          | 110                                                                        | Serial No. | n/a     |
| Test Specification | FCC Parts 2 and 90                                                         | Paragraph  | 2.989   |
| Operating Mode     | Amplifying cellular telephone signals                                      |            |         |
| Technician         | T. Cricco                                                                  | Date       | 8/19/99 |
| Notes              | Uplink - With 16KHz sine wave FM Modulation applied to the carrier signal. |            |         |

Sheet 5 of 24

12:28:27 AUG 19, 1999  
 R-3483N CELLULAR - OCC BW UPLINK - INPUT  
 REF -8.7 dBm AT 10 dB



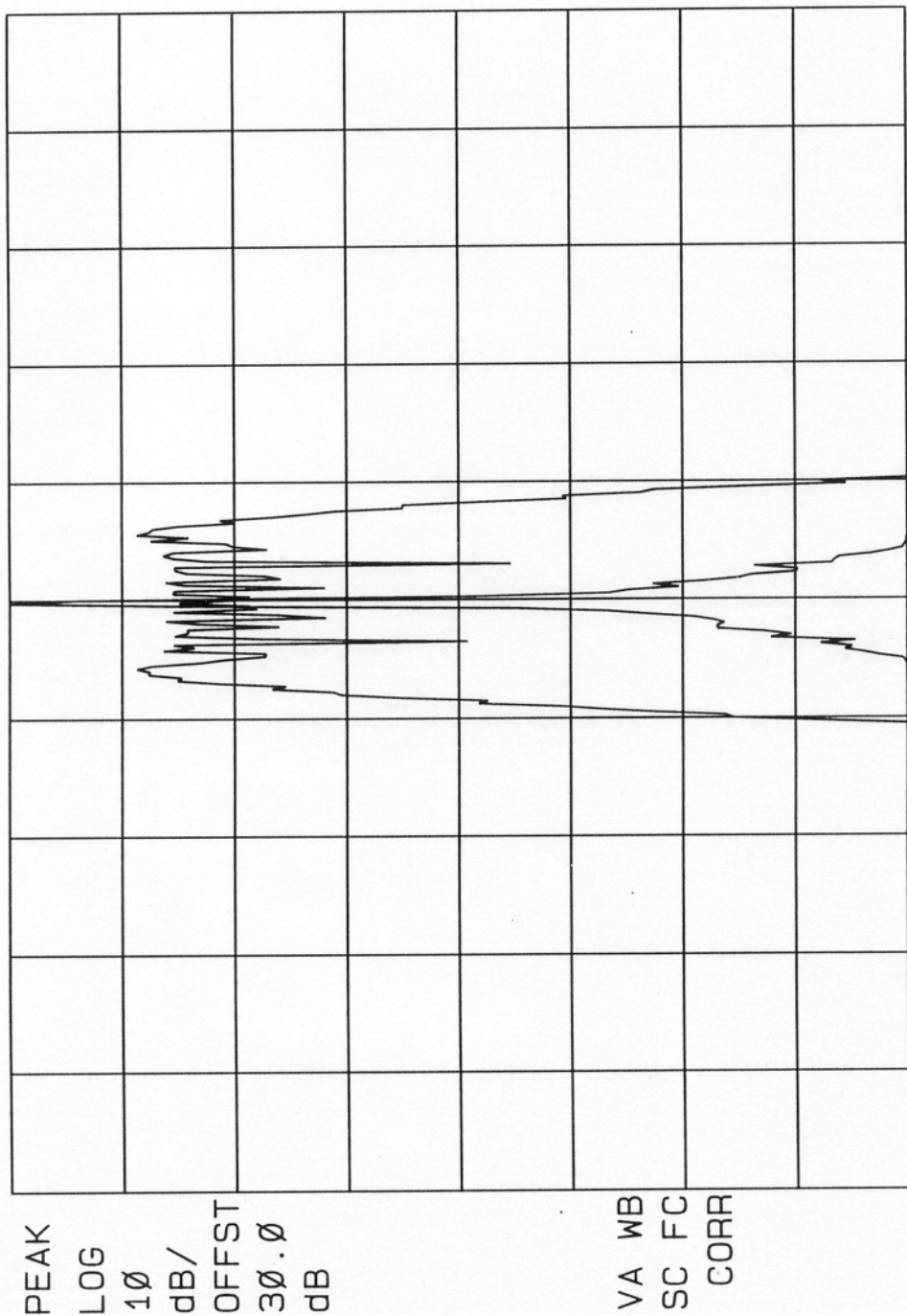
CENTER 821.0000 MHZ  
 #RES BW 300 HZ  
 #VBW 1 KHZ  
 SPAN 250.0 KHZ  
 SWP 8.33 sec

# RETLIF TESTING LABORATORIES

|                    |                                                                            |            |         |
|--------------------|----------------------------------------------------------------------------|------------|---------|
| Test Method        | Occupied Bandwidth                                                         |            |         |
| Customer           | Cellular Specialties                                                       | Job No.    | R-3483N |
| Test Sample        | Mini Bidirectional Amplifier                                               |            |         |
| Model No.          | 110                                                                        | Serial No. | n/a     |
| Test Specification | FCC Parts 2 and 90                                                         | Paragraph  | 2.989   |
| Operating Mode     | Amplifying cellular telephone signals                                      |            |         |
| Technician         | T. Cricco                                                                  | Date       | 8/19/99 |
| Notes              | Uplink - With 16KHz sine wave FM Modulation applied to the carrier signal. |            |         |

Sheet 6 of 24

12:30:51 AUG 19, 1999  
 R-3483N CELLULAR - OCC BW - UPLINK - OUTPUT  
 REF 27.1 dBm AT 10 dB



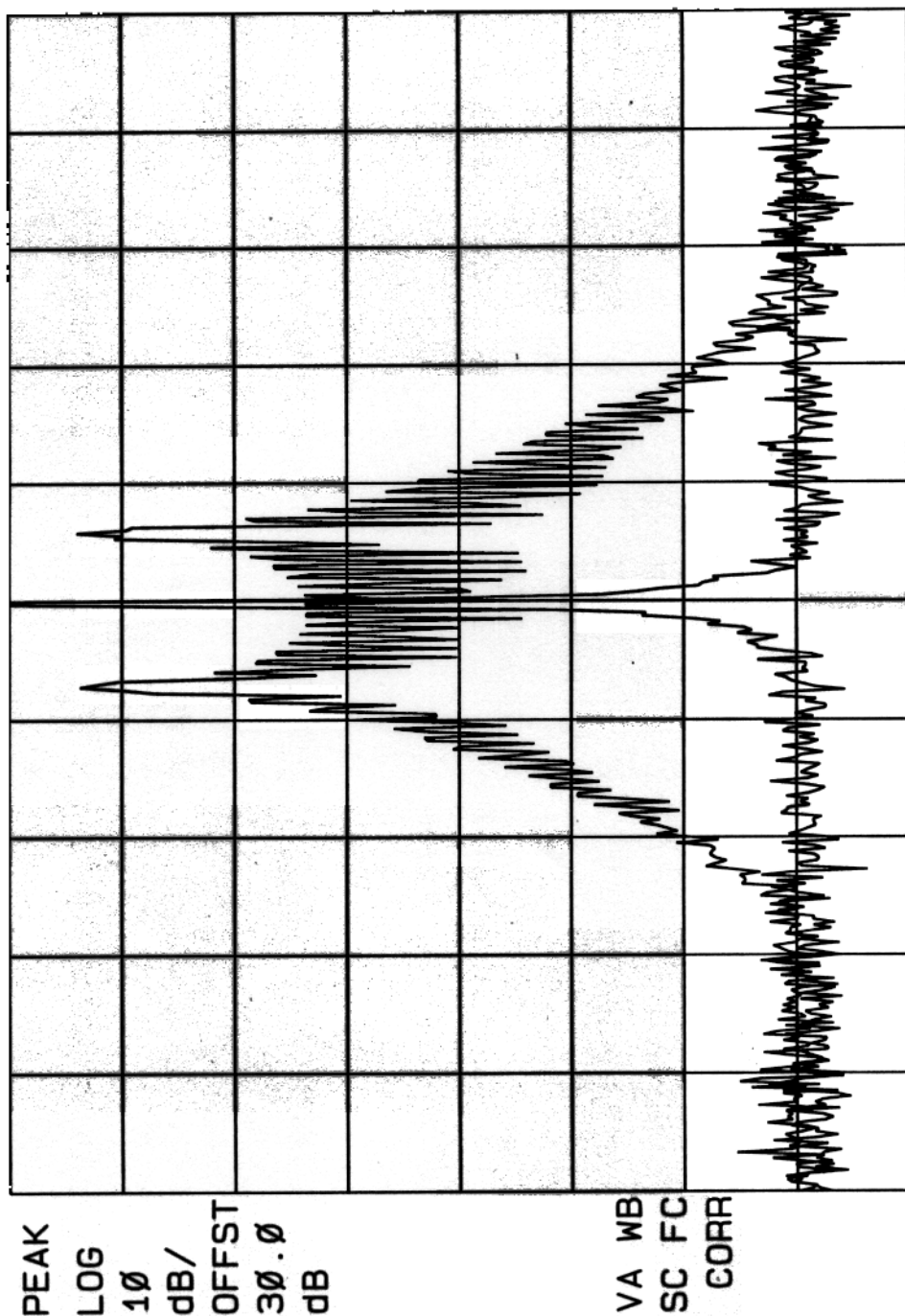
CENTER 821.0000 MHz  
 #RES BW 300 Hz  
 #VBW 1 KHz  
 SWP 8.33 sec  
 SPAN 250.0 KHz

# RETLIF TESTING LABORATORIES

|                    |                                                                              |            |                 |
|--------------------|------------------------------------------------------------------------------|------------|-----------------|
| Test Method        | Occupied Bandwidth                                                           |            |                 |
| Customer           | Cellular Specialties                                                         | Job No.    | R-3483N         |
| Test Sample        | Mini Bidirectional Amplifier                                                 |            |                 |
| Model No.          | 110                                                                          | Serial No. | n/a             |
| Test Specification | FCC Parts 2 and 90                                                           |            | Paragraph 2.989 |
| Operating Mode     | Amplifying cellular telephone signals                                        |            |                 |
| Technician         | T. Cricco                                                                    | Date       | 8/19/99         |
| Notes              | Uplink - With 16KHz square wave FM Modulation applied to the carrier signal. |            |                 |

Sheet 7 of 24

12:20:05 AUG 19, 1999  
 R-3483N CELLULAR - OCC BW  
 REF -11.8 dBm AT 10 dB



SPAN 250.0 KHZ  
 SWP 8.33 sec

#VBW 1 KHZ

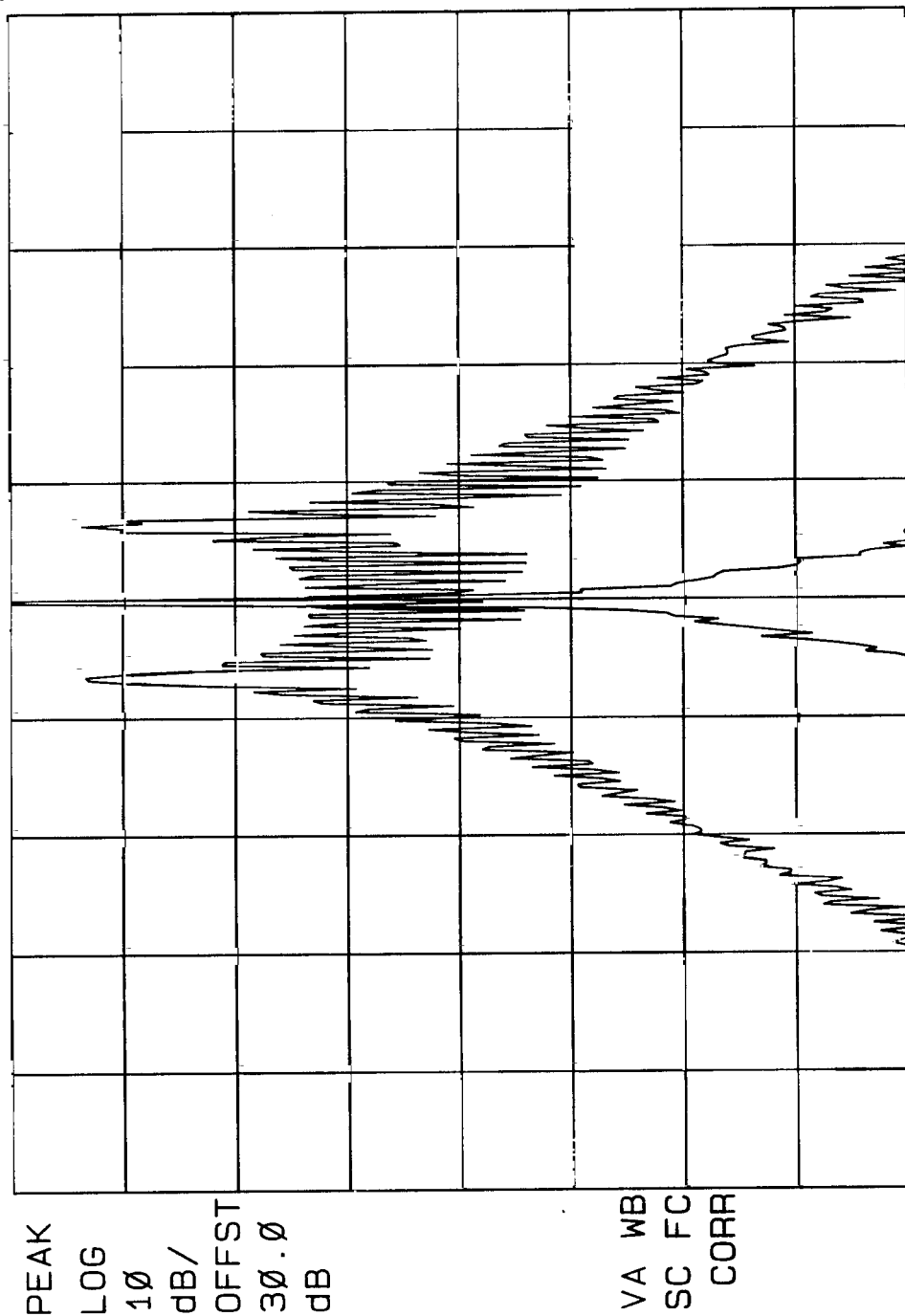
CENTER 806.0000 MHZ  
 #RES BW 300 HZ

# RETLIF TESTING LABORATORIES

|                    |                                                                              |            |                 |
|--------------------|------------------------------------------------------------------------------|------------|-----------------|
| Test Method        | Occupied Bandwidth                                                           |            |                 |
| Customer           | Cellular Specialties                                                         | Job No.    | R-3483N         |
| Test Sample        | Mini Bidirectional Amplifier                                                 |            |                 |
| Model No.          | 110                                                                          | Serial No. | n/a             |
| Test Specification | FCC Parts 2 and 90                                                           |            | Paragraph 2.989 |
| Operating Mode     | Amplifying cellular telephone signals                                        |            |                 |
| Technician         | T. Cricco                                                                    | Date       | 8/19/99         |
| Notes              | Uplink - With 16KHz square wave FM Modulation applied to the carrier signal. |            |                 |

Sheet 8 of 24

12: 22: 22 AUG 19, 1999  
 R-3483N CELLULAR - OCC BW UPLINK - OUTPUT  
 REF 26.4 dBm AT 10 dB



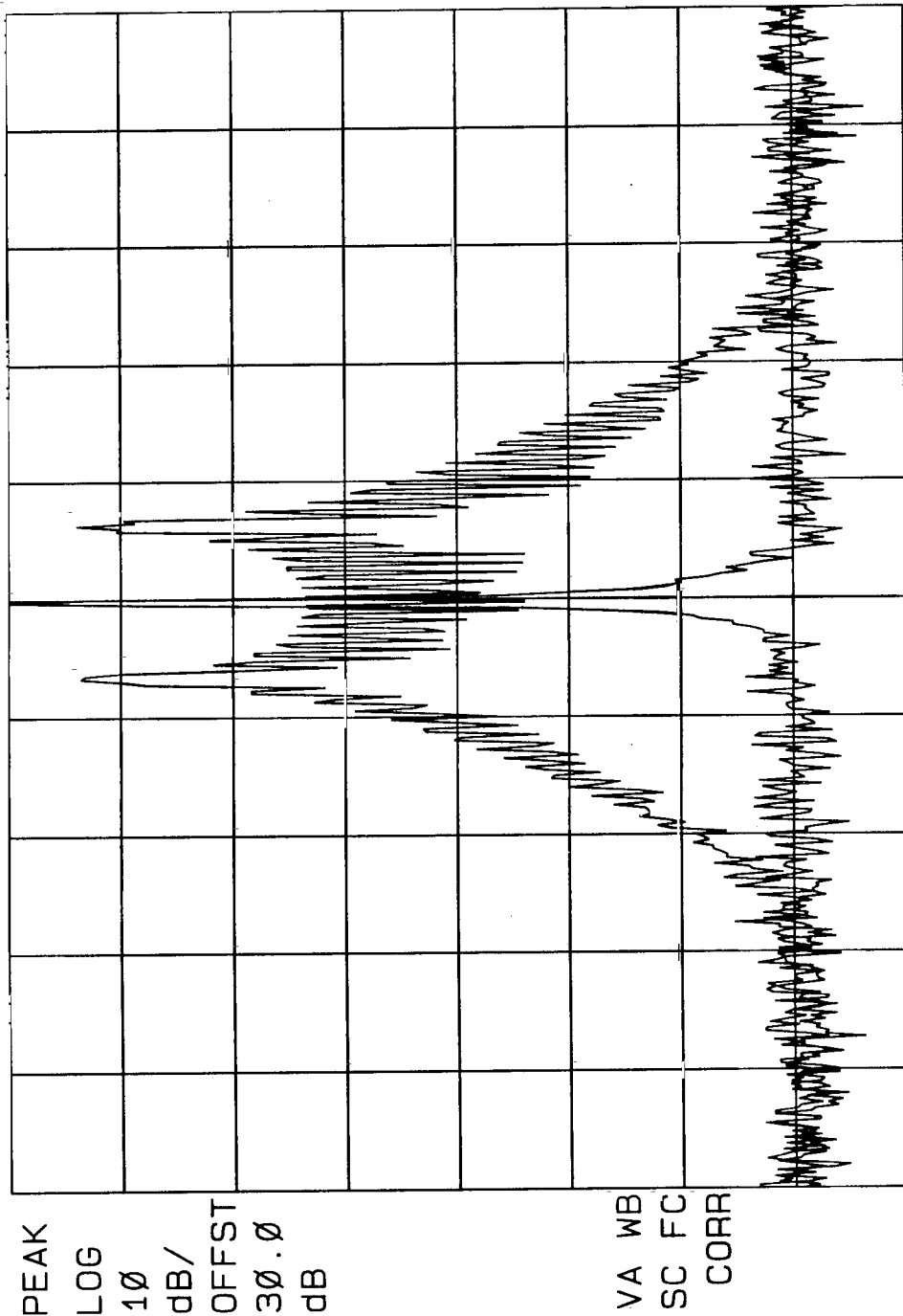
CENTER 806.0000 MHZ  
 #RES BW 300 HZ  
 #VBW 1 KHZ  
 SPAN 250.0 KHZ  
 SWP 8.33 sec

# RETILF TESTING LABORATORIES

|                    |                                                                              |            |                 |
|--------------------|------------------------------------------------------------------------------|------------|-----------------|
| Test Method        | Occupied Bandwidth                                                           |            |                 |
| Customer           | Cellular Specialties                                                         | Job No.    | R-3483N         |
| Test Sample        | Mini Bidirectional Amplifier                                                 |            |                 |
| Model No.          | 110                                                                          | Serial No. | n/a             |
| Test Specification | FCC Parts 2 and 90                                                           |            | Paragraph 2.989 |
| Operating Mode     | Amplifying cellular telephone signals                                        |            |                 |
| Technician         | T. Cricco                                                                    | Date       | 8/19/99         |
| Notes              | Uplink - With 16KHz square wave FM Modulation applied to the carrier signal. |            |                 |

Sheet 9 of 24

12: 24: 34 AUG 19, 1999  
 R-3483N CELLULAR - OCC BW INPUT  
 REF -11.8 dBm AT 10 dB



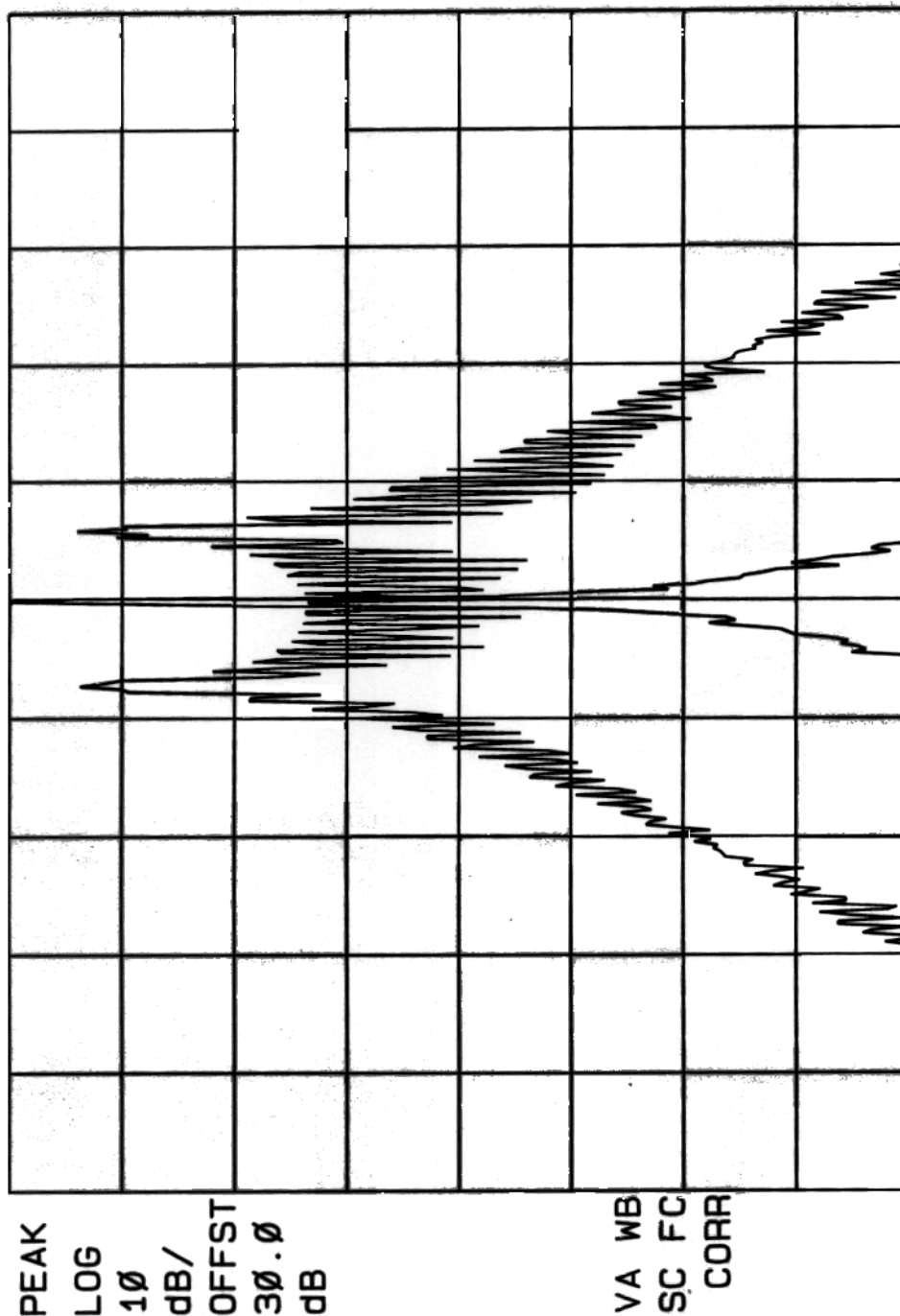
CENTER 814.0000 MHZ  
 #RES BW 300 HZ  
 #VBW 1 KHZ  
 SWP 8.33 sec  
 SPAN 250.0 KHZ

# RETLIF TESTING LABORATORIES

|                    |                                                                              |            |         |
|--------------------|------------------------------------------------------------------------------|------------|---------|
| Test Method        | Occupied Bandwidth                                                           |            |         |
| Customer           | Cellular Specialties                                                         | Job No.    | R-3483N |
| Test Sample        | Mini Bidirectional Amplifier                                                 |            |         |
| Model No.          | 110                                                                          | Serial No. | n/a     |
| Test Specification | FCC Parts 2 and 90                                                           | Paragraph  | 2.989   |
| Operating Mode     | Amplifying cellular telephone signals                                        |            |         |
| Technician         | T. Cricco                                                                    | Date       | 8/19/99 |
| Notes              | Uplink - With 16KHz square wave FM Modulation applied to the carrier signal. |            |         |

Sheet 10 of 24

12:26:19 AUG 19, 1999  
 R-3483N CELLULAR - OCC BW - UPLINK OUTPUT  
 REF 26.4 dBm AT 10 dB



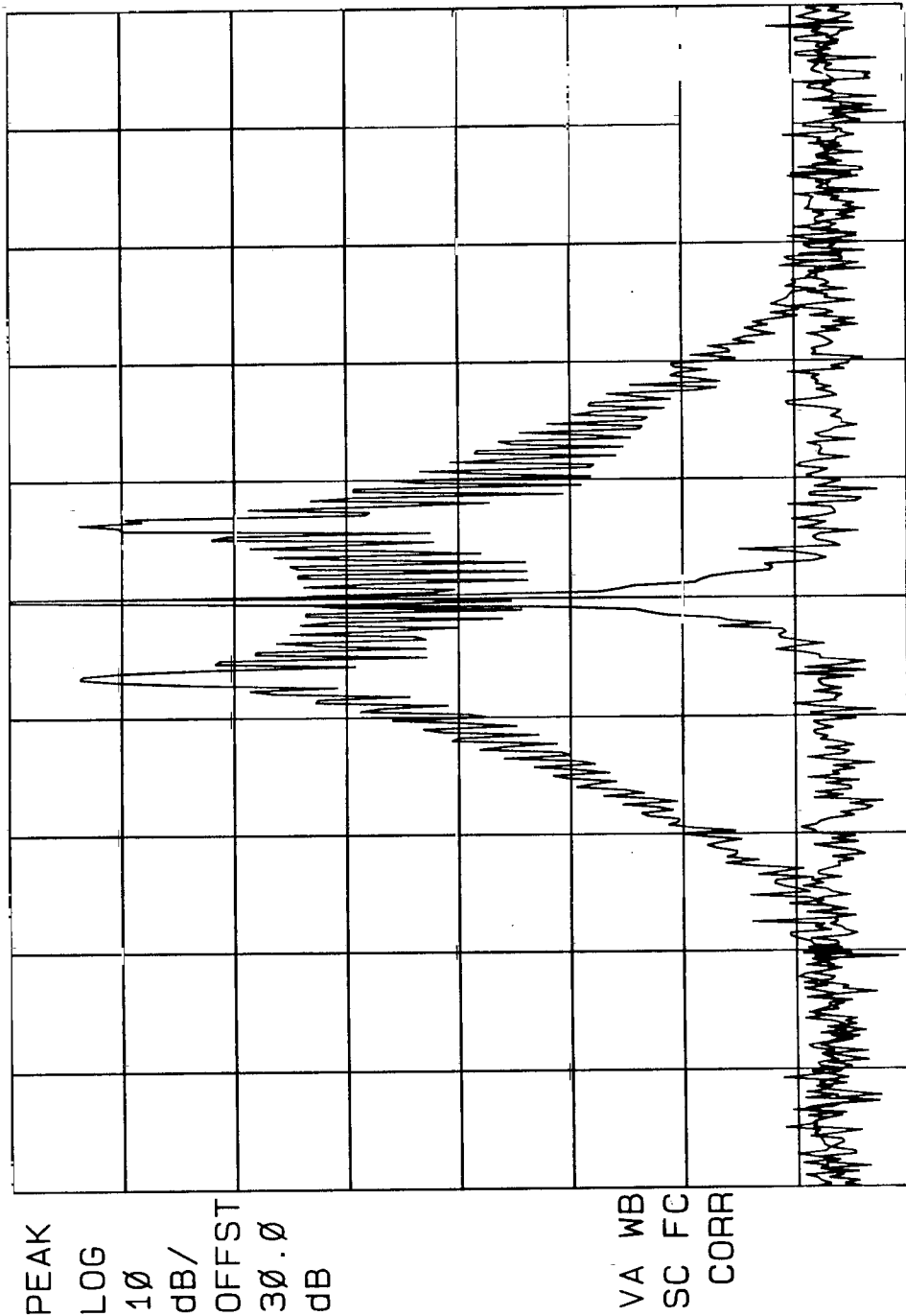
CENTER 814.0000 MHZ  
 #RES BW 3000 HZ  
 #VBW 1 KHZ  
 SPAN 250.0 KHZ  
 SWP 8.33 sec

# RETLIF TESTING LABORATORIES

|                    |                                                                              |            |         |
|--------------------|------------------------------------------------------------------------------|------------|---------|
| Test Method        | Occupied Bandwidth                                                           |            |         |
| Customer           | Cellular Specialties                                                         | Job No.    | R-3483N |
| Test Sample        | Mini Bidirectional Amplifier                                                 |            |         |
| Model No.          | 110                                                                          | Serial No. | n/a     |
| Test Specification | FCC Parts 2 and 90                                                           | Paragraph  | 2.989   |
| Operating Mode     | Amplifying cellular telephone signals                                        |            |         |
| Technician         | T. Cricco                                                                    | Date       | 8/19/99 |
| Notes              | Uplink - With 16KHz square wave FM Modulation applied to the carrier signal. |            |         |

Sheet 11 of 24

12:28:56 AUG 19, 1999  
 R-3483N CELLULAR - OCC BW INPUT  
 REF -8.7 dBm AT 10 dB



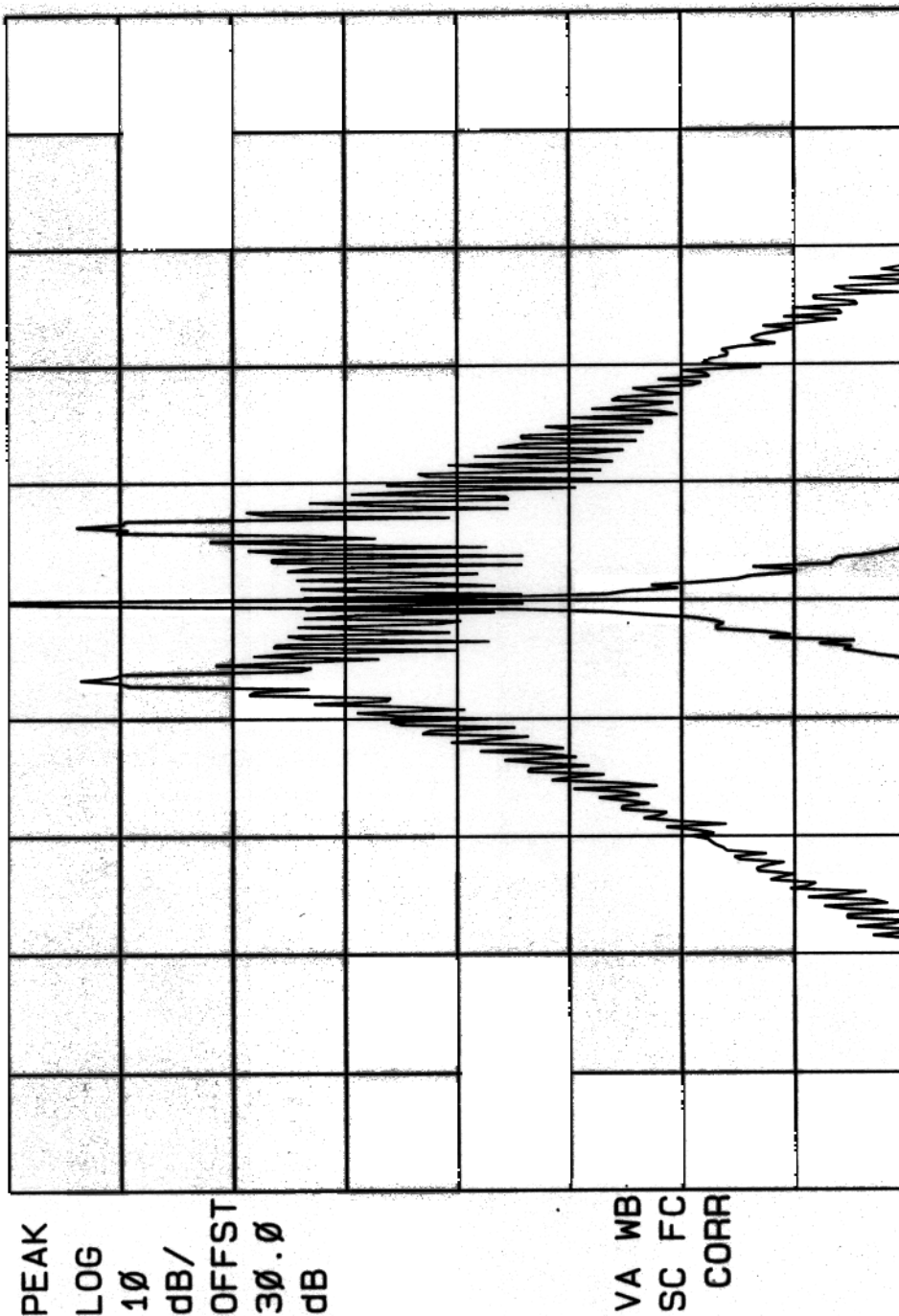
CENTER 821.0000 MHZ  
 #RES BW 300 HZ  
 #VBW KHZ  
 SPAN 250.0 KHZ  
 SWP 8.33 sec

# RETLIF TESTING LABORATORIES

|                    |                                                                              |            |         |
|--------------------|------------------------------------------------------------------------------|------------|---------|
| Test Method        | Occupied Bandwidth                                                           |            |         |
| Customer           | Cellular Specialties                                                         | Job No.    | R-3483N |
| Test Sample        | Mini Bidirectional Amplifier                                                 |            |         |
| Model No.          | 110                                                                          | Serial No. | n/a     |
| Test Specification | FCC Parts 2 and 90                                                           | Paragraph  | 2.989   |
| Operating Mode     | Amplifying cellular telephone signals                                        |            |         |
| Technician         | T. Cricco                                                                    | Date       | 8/19/99 |
| Notes              | Uplink - With 16KHz square wave FM Modulation applied to the carrier signal. |            |         |

Sheet 12 of 24

12: 31: 18 AUG 19, 1999  
 R-3483N CELLULAR - OCC BW UPLINK - OUTPUT  
 REF 27.1 dBm AT 10 dB



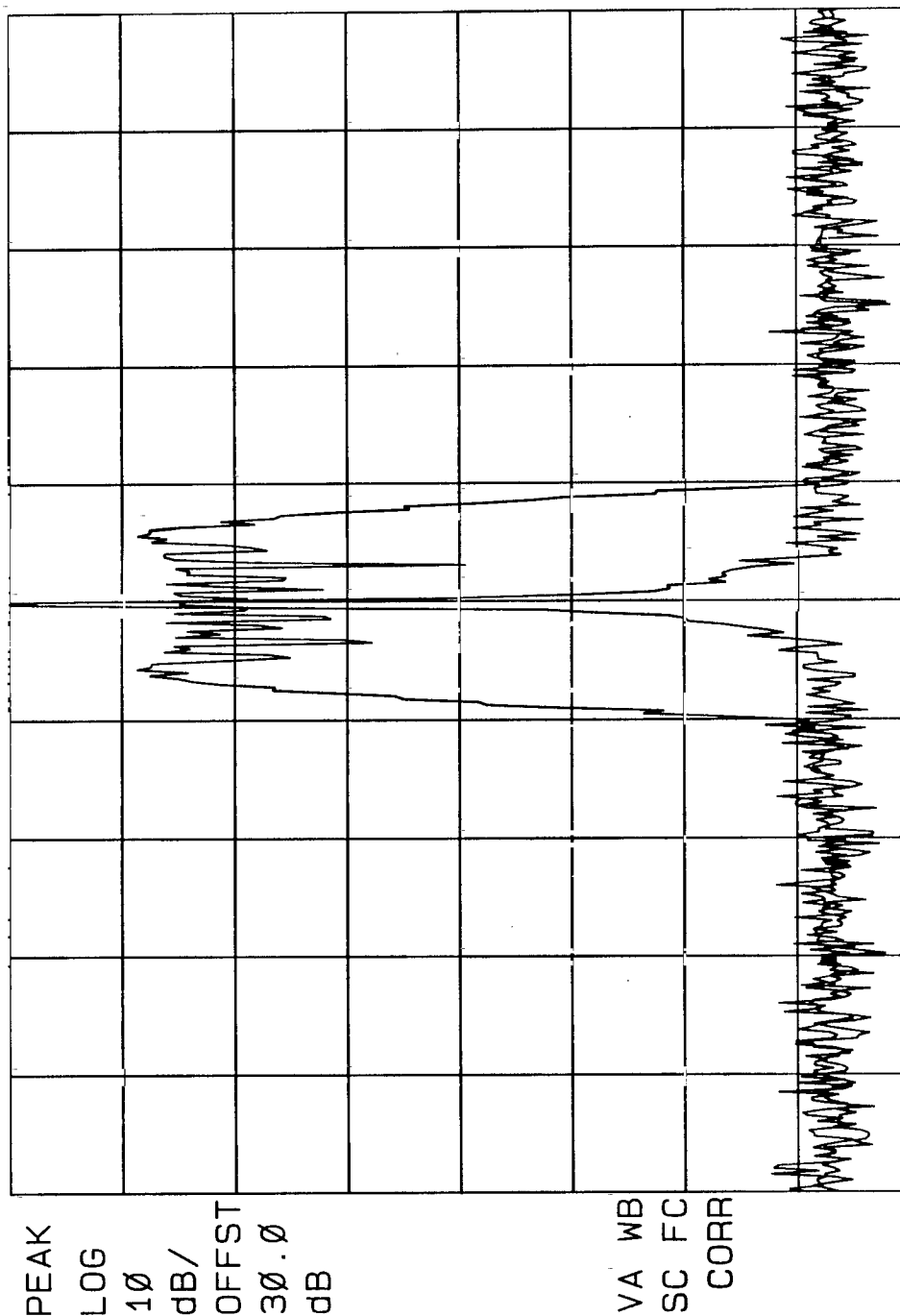
CENTER 821.0000 MHZ  
 #RES BW 300 Hz  
 #VBW 1 kHz  
 SPAN 250.0 kHz  
 SWP 8.33 sec

# RETLIF TESTING LABORATORIES

|                    |                                                                              |            |                 |
|--------------------|------------------------------------------------------------------------------|------------|-----------------|
| Test Method        | Occupied Bandwidth                                                           |            |                 |
| Customer           | Cellular Specialties                                                         | Job No.    | R-3483N         |
| Test Sample        | Mini Bidirectional Amplifier                                                 |            |                 |
| Model No.          | 110                                                                          | Serial No. | n/a             |
| Test Specification | FCC Parts 2 and 90                                                           |            | Paragraph 2.989 |
| Operating Mode     | Amplifying cellular telephone signals                                        |            |                 |
| Technician         | T. Cricco                                                                    | Date       | 8/19/99         |
| Notes              | Downlink - With 16KHz sine wave FM Modulation applied to the carrier signal. |            |                 |

Sheet 13 of 24

11:59:35 AUG 19, 1999  
 R-3483N CELLULAR - OCC BW - DOWNLINK INPUT  
 REF -8.9 dBm AT 10 dB



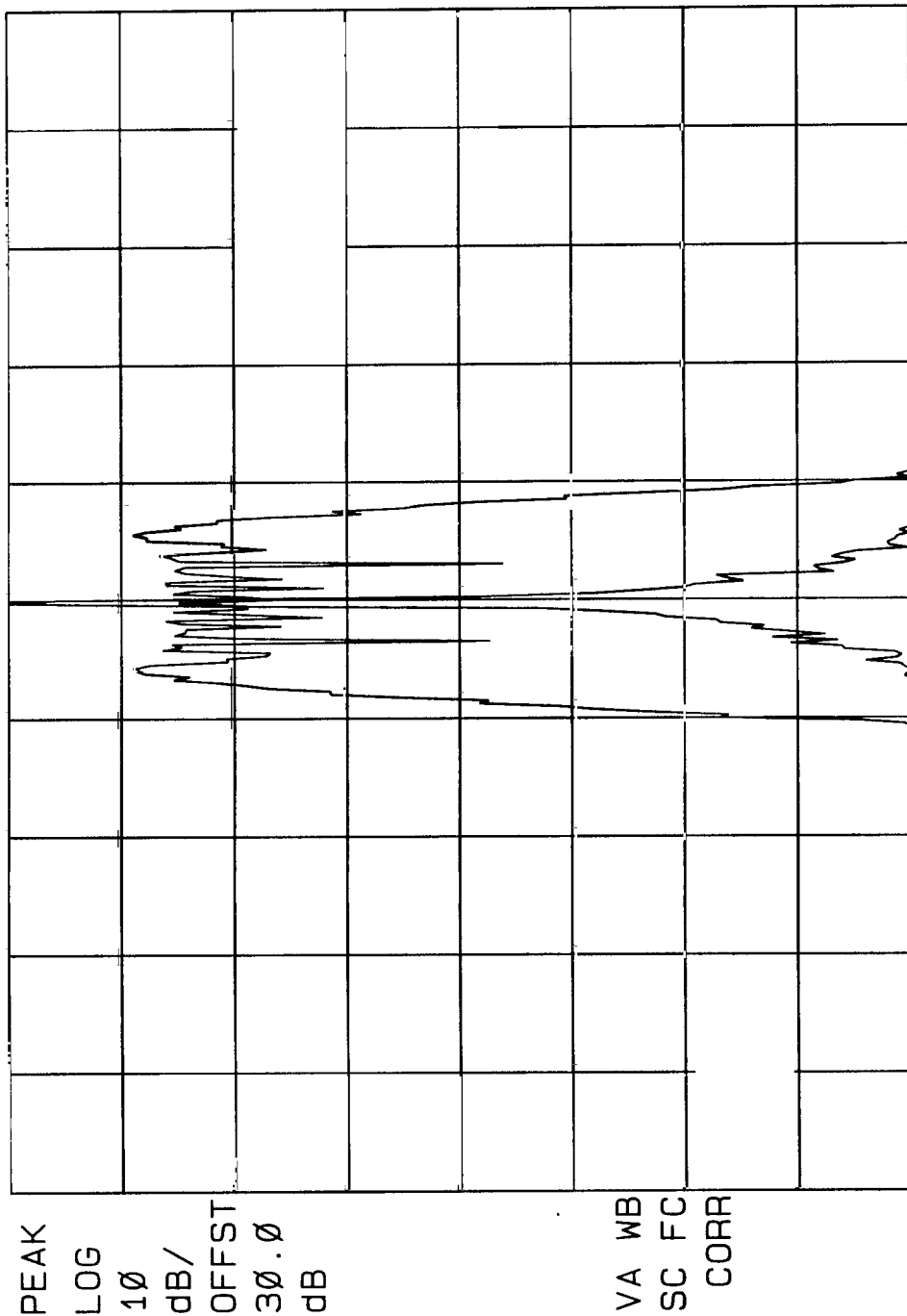
CENTER 851.0000 MHZ  
 #RES BW 300 HZ  
 #VBW 1 KHZ  
 SPAN 250.0 KHZ  
 SWP 8.33 sec

# RETLIF TESTING LABORATORIES

|                    |                                                                              |            |                 |
|--------------------|------------------------------------------------------------------------------|------------|-----------------|
| Test Method        | Occupied Bandwidth                                                           |            |                 |
| Customer           | Cellular Specialties                                                         | Job No.    | R-3483N         |
| Test Sample        | Mini Bidirectional Amplifier                                                 |            |                 |
| Model No.          | 110                                                                          | Serial No. | n/a             |
| Test Specification | FCC Parts 2 and 90                                                           |            | Paragraph 2.989 |
| Operating Mode     | Amplifying cellular telephone signals                                        |            |                 |
| Technician         | T. Cricco                                                                    | Date       | 8/19/99         |
| Notes              | Downlink - With 16KHz sine wave FM Modulation applied to the carrier signal. |            |                 |

Sheet 14 of 24

12:02:42 AUG 19, 1999  
 R-3483N CELLULAR - OCC BW DOWNLINK OUTPUT  
 REF 16.5 dBm AT 10 dB



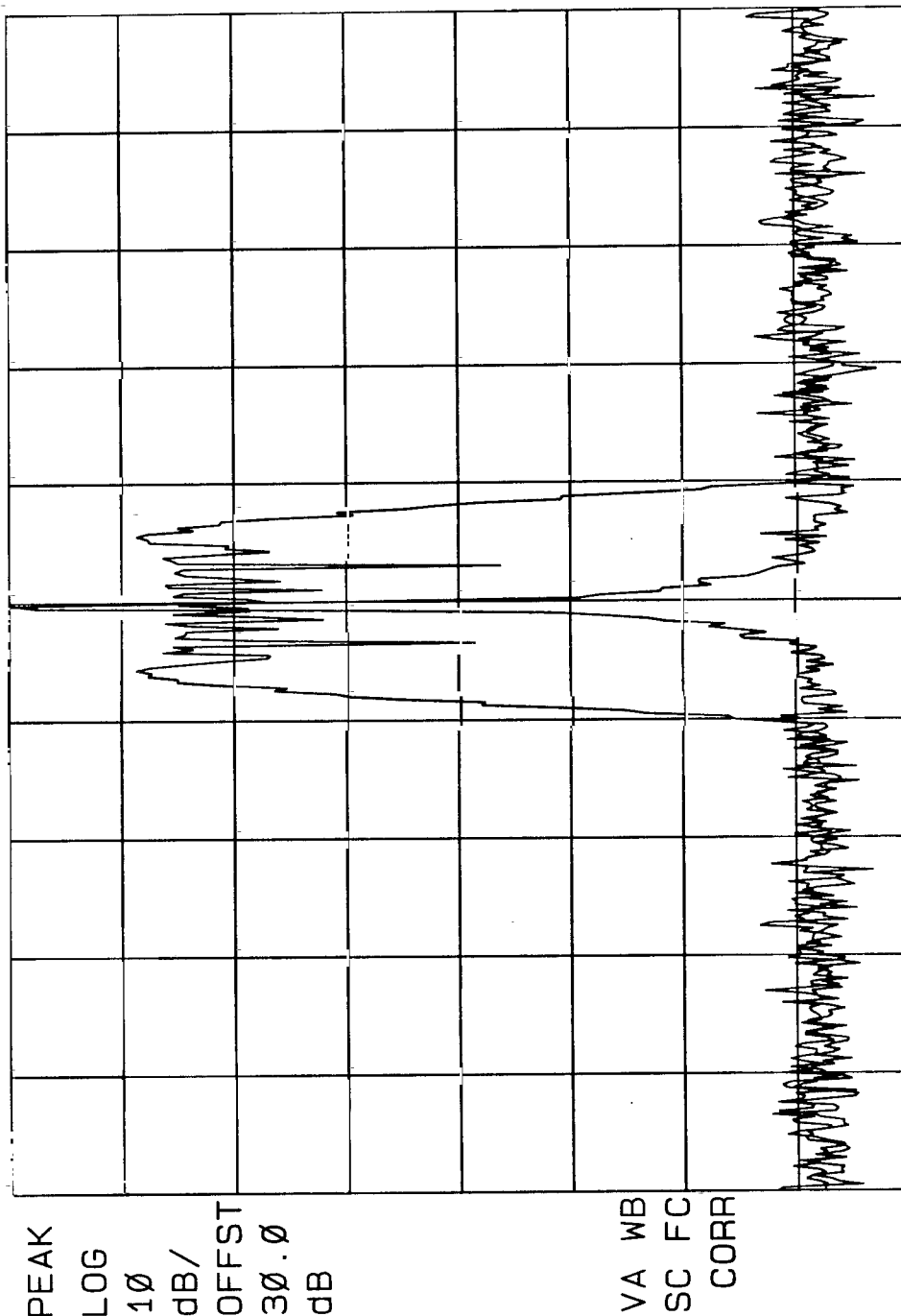
CENTER 851.00000 MHZ  
 #RES BW 300 HZ  
 #VBW 1 KHZ  
 SWP 8.33 SEC  
 SPAN 250.0 KHZ

# RETLIF TESTING LABORATORIES

|                    |                                                                              |            |                 |
|--------------------|------------------------------------------------------------------------------|------------|-----------------|
| Test Method        | Occupied Bandwidth                                                           |            |                 |
| Customer           | Cellular Specialties                                                         | Job No.    | R-3483N         |
| Test Sample        | Mini Bidirectional Amplifier                                                 |            |                 |
| Model No.          | 110                                                                          | Serial No. | n/a             |
| Test Specification | FCC Parts 2 and 90                                                           |            | Paragraph 2.989 |
| Operating Mode     | Amplifying cellular telephone signals                                        |            |                 |
| Technician         | T. Cricco                                                                    | Date       | 8/19/99         |
| Notes              | Downlink - With 16KHz sine wave FM Modulation applied to the carrier signal. |            |                 |

Sheet 15 of 24

12:05:15 AUG 19, 1999  
 R-3483N CELLULAR - OCC BW INPUT  
 REF -11.0 dBm AT 10 dB



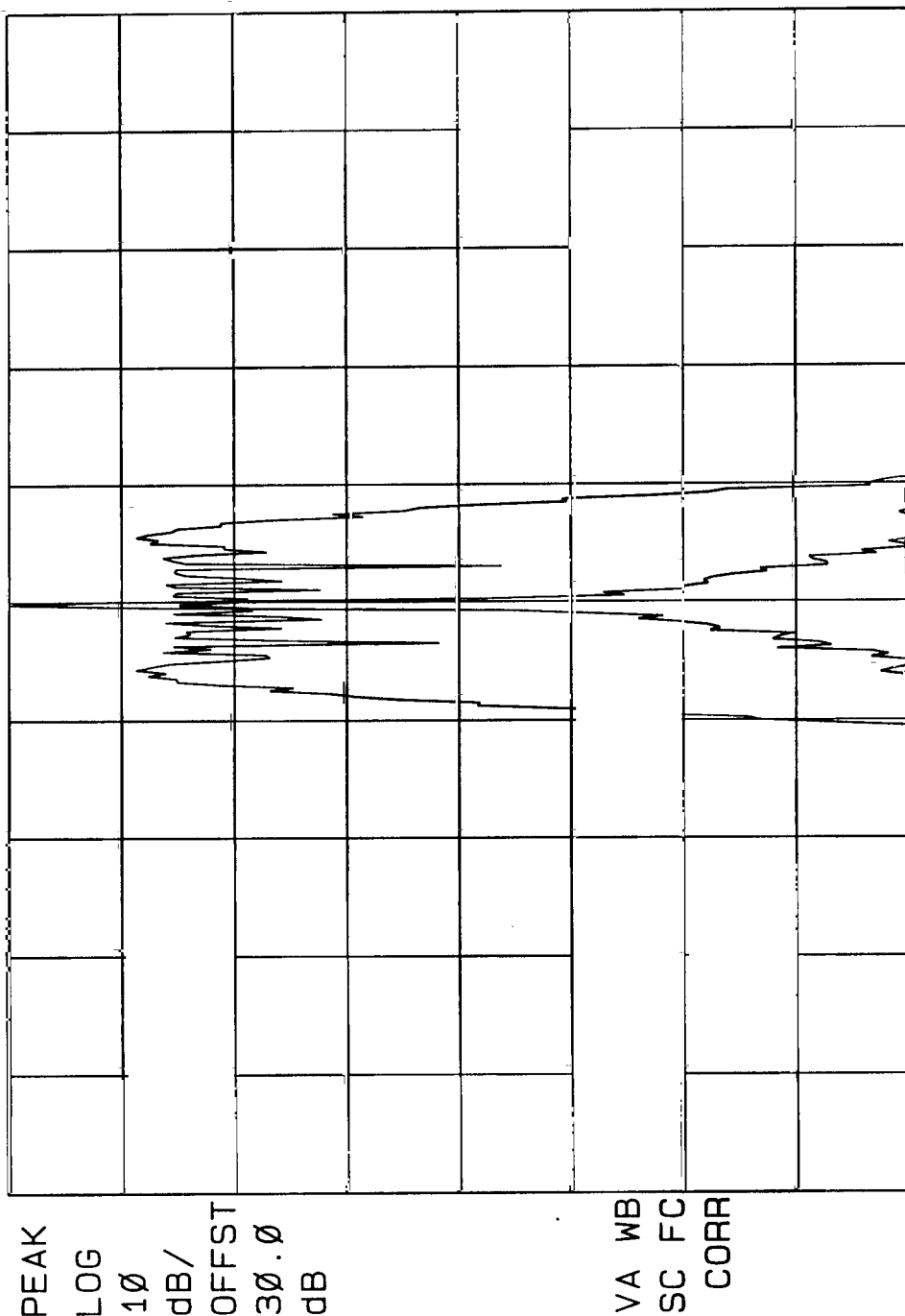
CENTER 859.0000 MHZ  
 #RES BW 300 Hz  
 #VBW 1 KHZ  
 SPAN 250.0 KHZ  
 SWP 8.33 sec

# RETLIF TESTING LABORATORIES

|                    |                                                                              |            |                 |
|--------------------|------------------------------------------------------------------------------|------------|-----------------|
| Test Method        | Occupied Bandwidth                                                           |            |                 |
| Customer           | Cellular Specialties                                                         | Job No.    | R-3483N         |
| Test Sample        | Mini Bidirectional Amplifier                                                 |            |                 |
| Model No.          | 110                                                                          | Serial No. | n/a             |
| Test Specification | FCC Parts 2 and 90                                                           |            | Paragraph 2.989 |
| Operating Mode     | Amplifying cellular telephone signals                                        |            |                 |
| Technician         | T. Cricco                                                                    | Date       | 8/19/99         |
| Notes              | Downlink - With 16KHz sine wave FM Modulation applied to the carrier signal. |            |                 |

Sheet 16 of 24

12:09:55 AUG 19, 1999  
 R-3483N CELLULAR - OCC BW DOWNLINK OUTPUT  
 REF 16.5 dBm AT 10 dB



PEAK  
 LOG  
 10  
 dB/  
 OFFST  
 30.0  
 dB

VA WB  
 SC FC  
 CORR

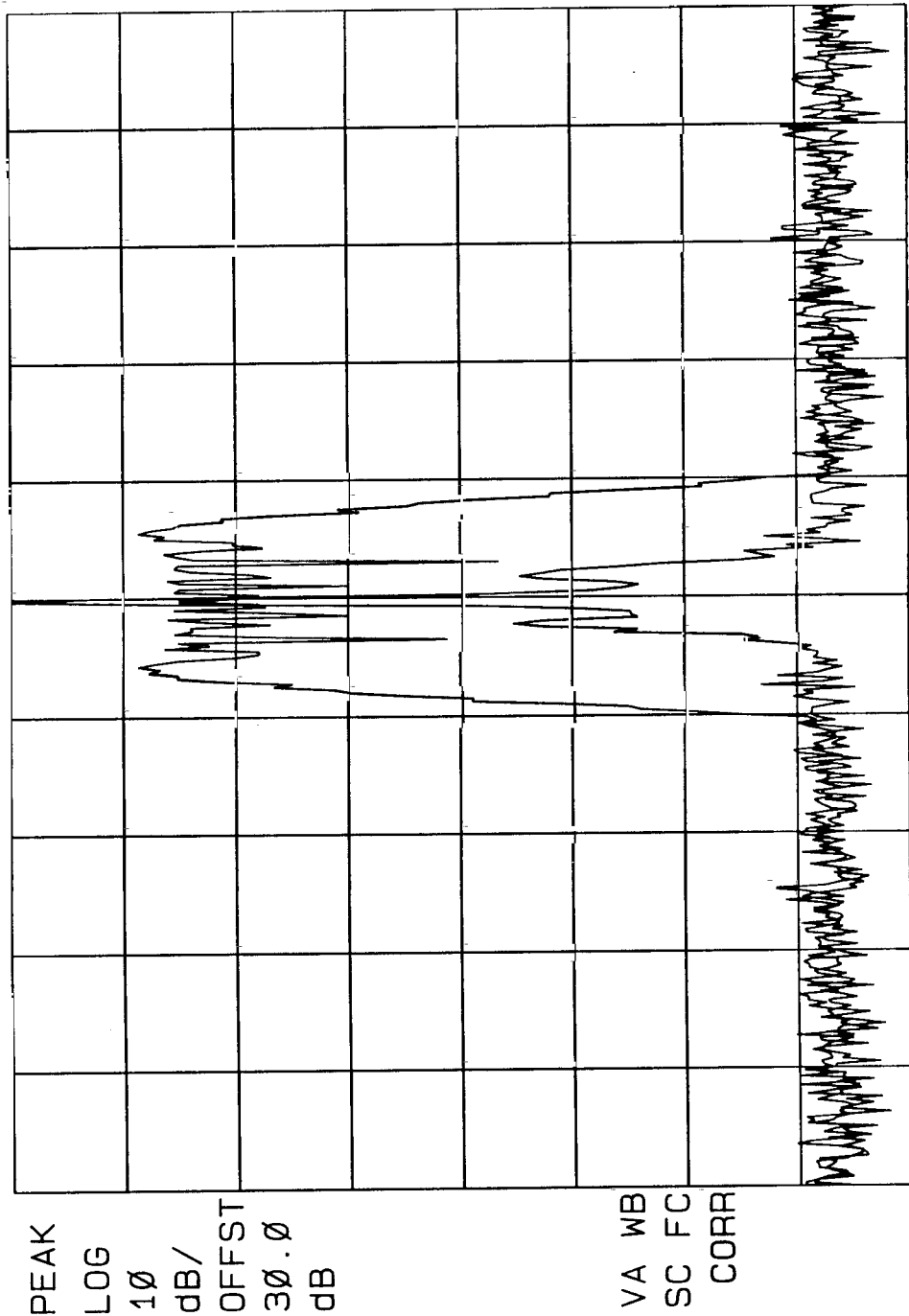
CENTER 859.00000 MHZ  
 #RES BW 300 HZ  
 #VBW 1 KHZ  
 SPAN 250.0 KHZ  
 SWP 8.33 sec

# RETILF TESTING LABORATORIES

|                    |                                                                              |            |         |
|--------------------|------------------------------------------------------------------------------|------------|---------|
| Test Method        | Occupied Bandwidth                                                           |            |         |
| Customer           | Cellular Specialties                                                         | Job No.    | R-3483N |
| Test Sample        | Mini Bidirectional Amplifier                                                 |            |         |
| Model No.          | 110                                                                          | Serial No. | n/a     |
| Test Specification | FCC Parts 2 and 90                                                           | Paragraph  | 2.989   |
| Operating Mode     | Amplifying cellular telephone signals                                        |            |         |
| Technician         | T. Cricco                                                                    | Date       | 8/19/99 |
| Notes              | Downlink - With 16KHz sine wave FM Modulation applied to the carrier signal. |            |         |

Sheet 17 of 24

12:12:55 AUG 19, 1999  
 R-3483N CELLULAR - OCC BW - DOWNLINK - INPUT  
 REF -9.0 dBm AT 10 dB



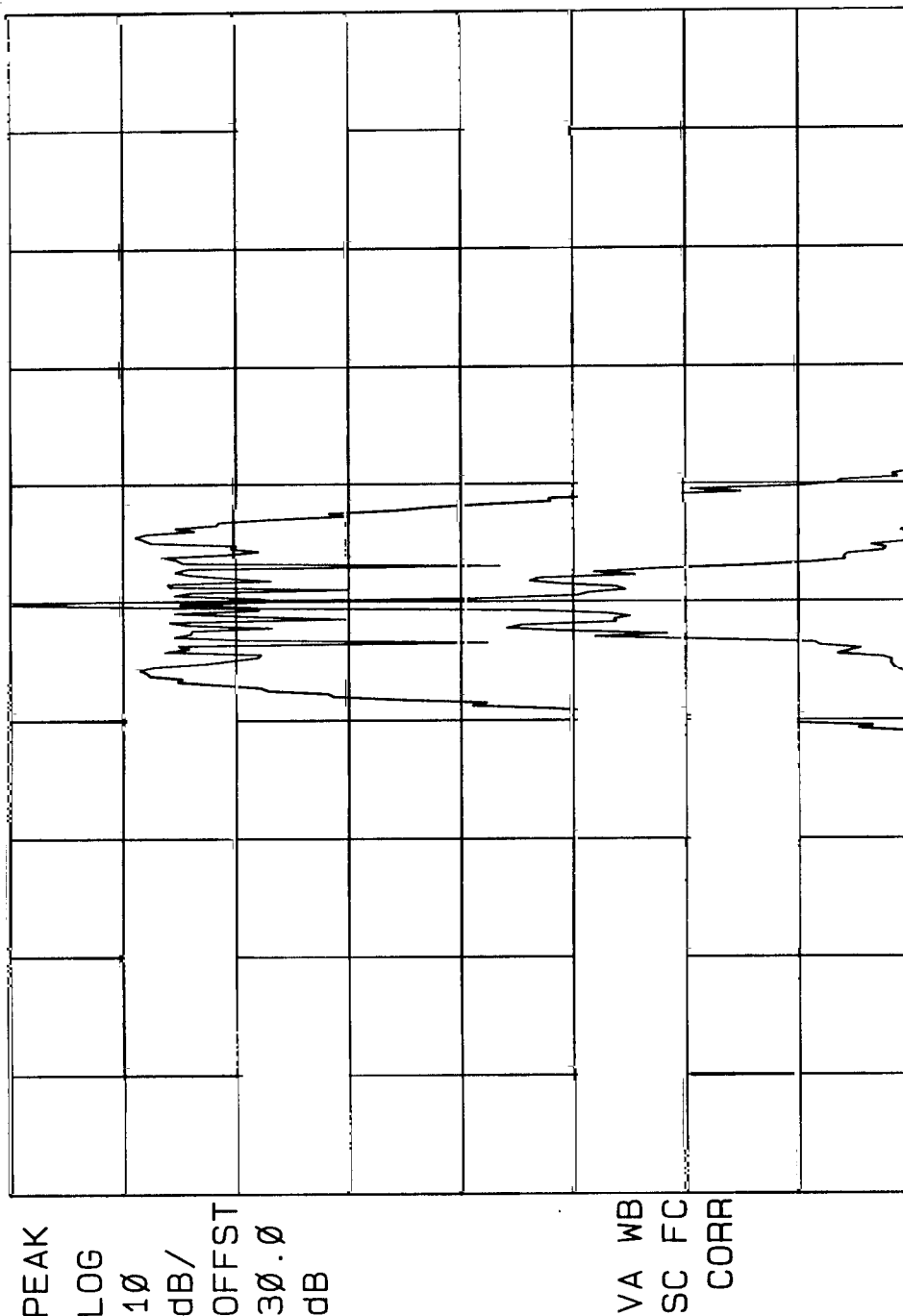
CENTER 866.0000 MHZ  
 #RES BW 300 HZ  
 #VBW 1 KHZ  
 SPAN 250.0 KHZ  
 SWP 8.33 sec

# RETLIF TESTING LABORATORIES

|                    |                                                                              |            |                 |
|--------------------|------------------------------------------------------------------------------|------------|-----------------|
| Test Method        | Occupied Bandwidth                                                           |            |                 |
| Customer           | Cellular Specialties                                                         | Job No.    | R-3483N         |
| Test Sample        | Mini Bidirectional Amplifier                                                 |            |                 |
| Model No.          | 110                                                                          | Serial No. | n/a             |
| Test Specification | FCC Parts 2 and 90                                                           |            | Paragraph 2.989 |
| Operating Mode     | Amplifying cellular telephone signals                                        |            |                 |
| Technician         | T. Cricco                                                                    | Date       | 8/19/99         |
| Notes              | Downlink - With 16KHz sine wave FM Modulation applied to the carrier signal. |            |                 |

Sheet 18 of 24

12:14:41 AUG 19, 1999  
 R-3483N CELLULAR - OCC BW DOWNLINK OUTPUT  
 REF 17.0 dBm AT 10 dB



PEAK  
 LOG  
 10  
 dB/  
 OFFST  
 30.0  
 dB

VA WB  
 SC FC  
 CORR

CENTER 866.0000 MHZ  
 #RES BW 300 HZ  
 #VBW 1 KHZ  
 SPAN 250.0 KHZ  
 SWP 8.33 SEC

# RETLIF TESTING LABORATORIES

|                    |                                                                                |            |         |
|--------------------|--------------------------------------------------------------------------------|------------|---------|
| Test Method        | Occupied Bandwidth                                                             |            |         |
| Customer           | Cellular Specialties                                                           | Job No.    | R-3483N |
| Test Sample        | Mini Bidirectional Amplifier                                                   |            |         |
| Model No.          | 110                                                                            | Serial No. | n/a     |
| Test Specification | FCC Parts 2 and 90                                                             | Paragraph  | 2.989   |
| Operating Mode     | Amplifying cellular telephone signals                                          |            |         |
| Technician         | T. Cricco                                                                      | Date       | 8/19/99 |
| Notes              | Downlink - With 16KHz square wave FM Modulation applied to the carrier signal. |            |         |

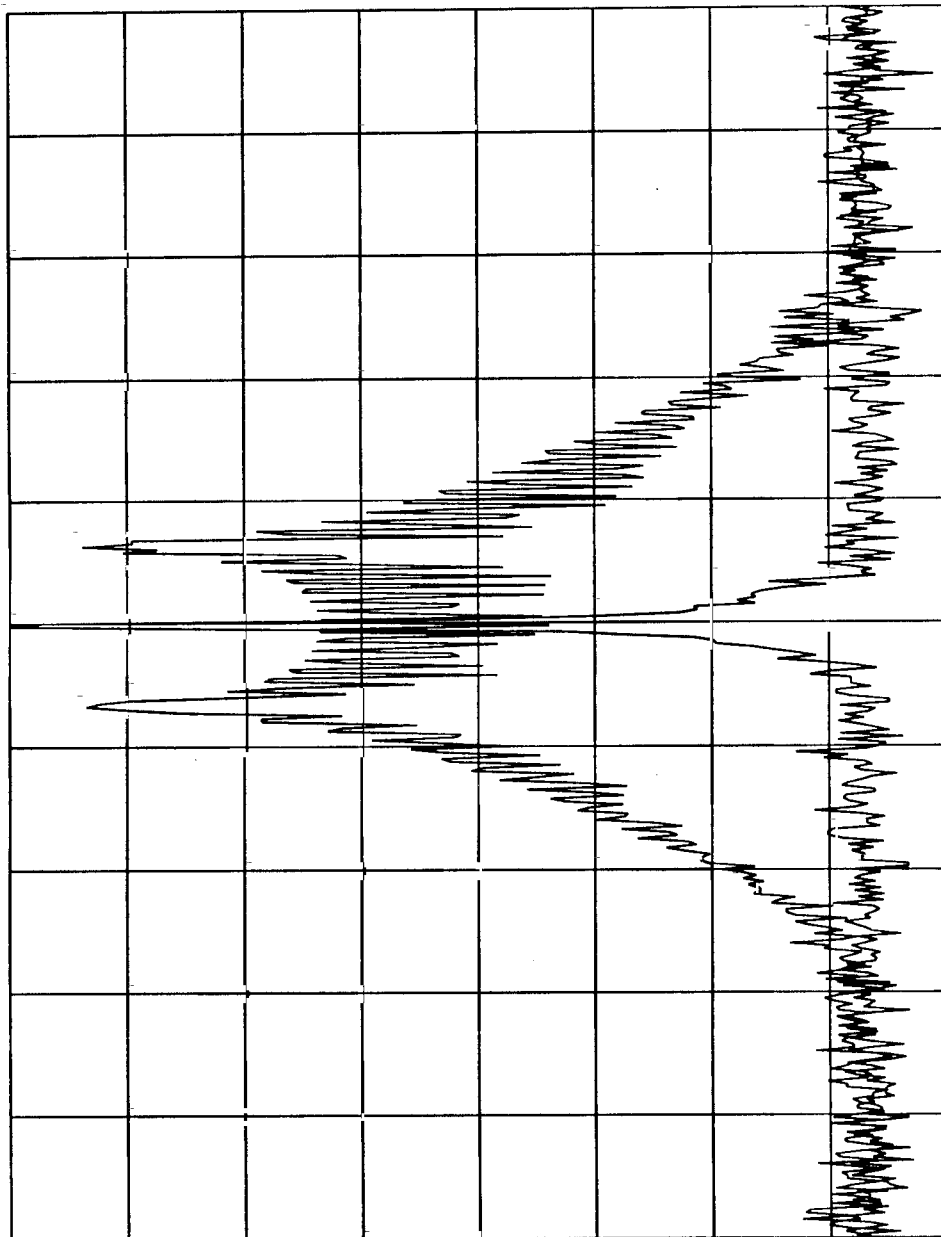
Sheet 19 of 24

12:00:05 AUG 19, 1999

R-3483N CELLULAR - OCC BW DOWNLINK INPUT

REF -8.9 dBm AT 10 dB

PEAK  
LOG  
10  
dB/  
OFFST  
30.0  
dB



CENTER 851.0000 MHZ  
#RES BW 300 HZ

#VBW 1 KHZ

SPAN 250.0 KHZ  
SWP 8.33 SEC

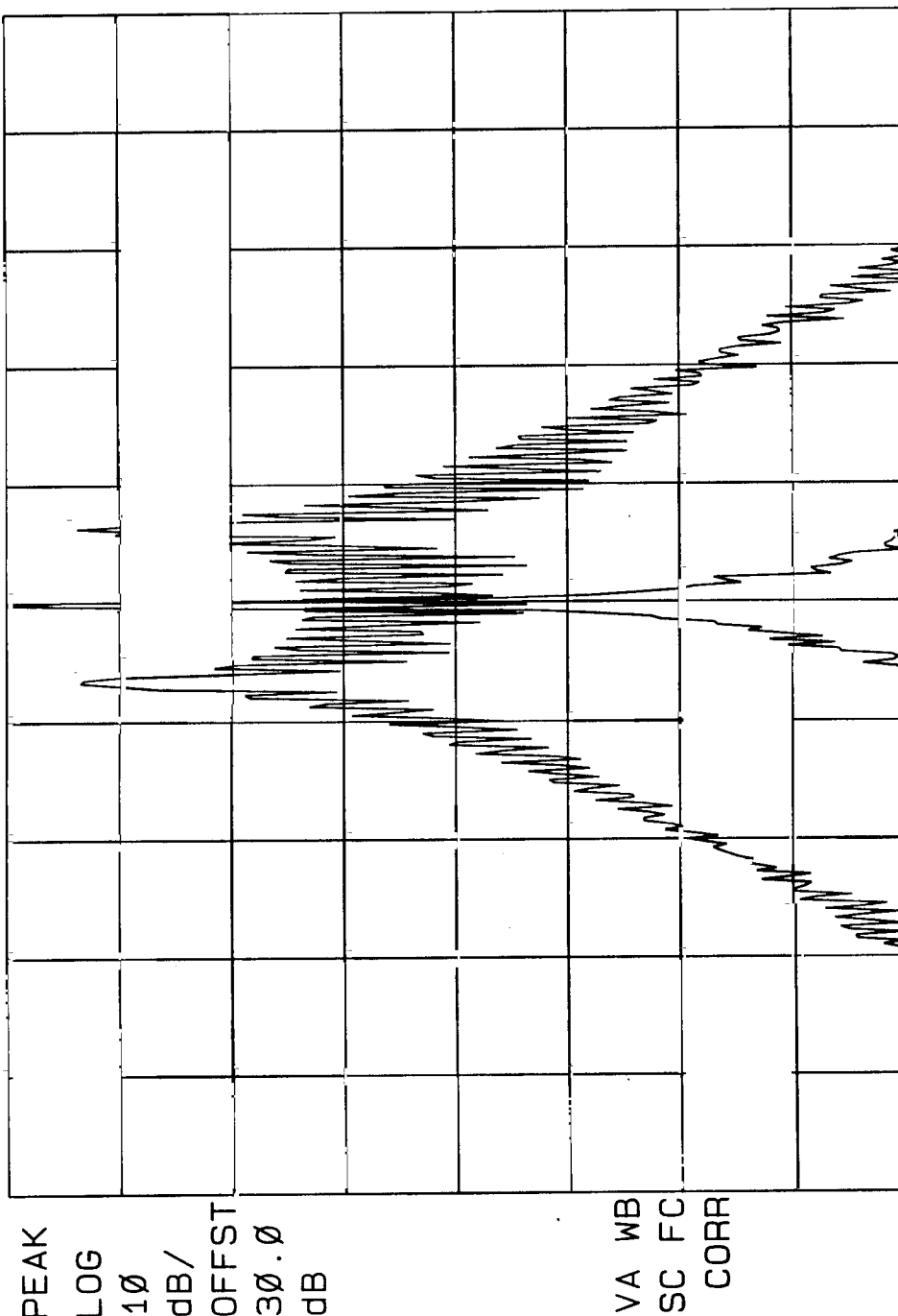
# RETLIF TESTING LABORATORIES

|                    |                                                                                |            |                 |
|--------------------|--------------------------------------------------------------------------------|------------|-----------------|
| Test Method        | Occupied Bandwidth                                                             |            |                 |
| Customer           | Cellular Specialties                                                           | Job No.    | R-3483N         |
| Test Sample        | Mini Bidirectional Amplifier                                                   |            |                 |
| Model No.          | 110                                                                            | Serial No. | n/a             |
| Test Specification | FCC Parts 2 and 90                                                             |            | Paragraph 2.989 |
| Operating Mode     | Amplifying cellular telephone signals                                          |            |                 |
| Technician         | T. Cricco                                                                      | Date       | 8/19/99         |
| Notes              | Downlink - With 16KHz square wave FM Modulation applied to the carrier signal. |            |                 |

Sheet 20 of 24

12:03:14 AUG 19, 1999  
 R-3483N CELLULAR - OCC BW DOWNLINK OUTPUT

REF 16.5 dBm AT 10 dB



CENTER 851.0000 MHZ  
 #RES BW 300 HZ  
 #VBW 1 KHZ  
 SPAN 250.0 KHZ  
 SWP 8.33 sec

# RETLIF TESTING LABORATORIES

|                    |                                                                                |            |         |
|--------------------|--------------------------------------------------------------------------------|------------|---------|
| Test Method        | Occupied Bandwidth                                                             |            |         |
| Customer           | Cellular Specialties                                                           | Job No.    | R-3483N |
| Test Sample        | Mini Bidirectional Amplifier                                                   |            |         |
| Model No.          | 110                                                                            | Serial No. | n/a     |
| Test Specification | FCC Parts 2 and 90                                                             | Paragraph  | 2.989   |
| Operating Mode     | Amplifying cellular telephone signals                                          |            |         |
| Technician         | T. Cricco                                                                      | Date       | 8/19/99 |
| Notes              | Downlink - With 16KHz square wave FM Modulation applied to the carrier signal. |            |         |

Sheet 21 of 24

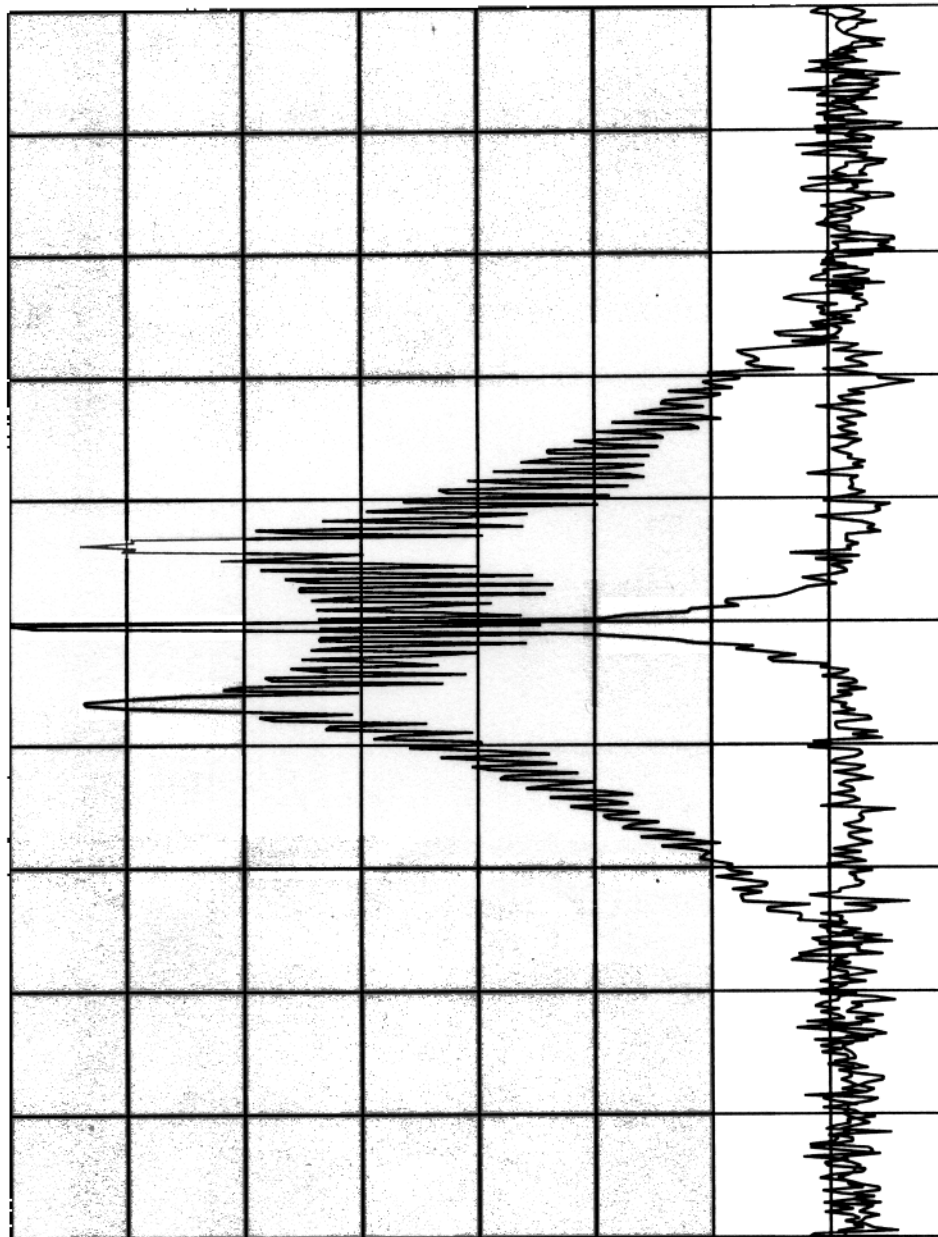
12:05:44 AUG 19, 1999

DOWNLINK INPUT

REF -11.0 dBm AT 10 dB

PEAK  
LOG  
10  
dB/  
OFFST  
30.0  
dB

VA WB  
SC FC  
CORR

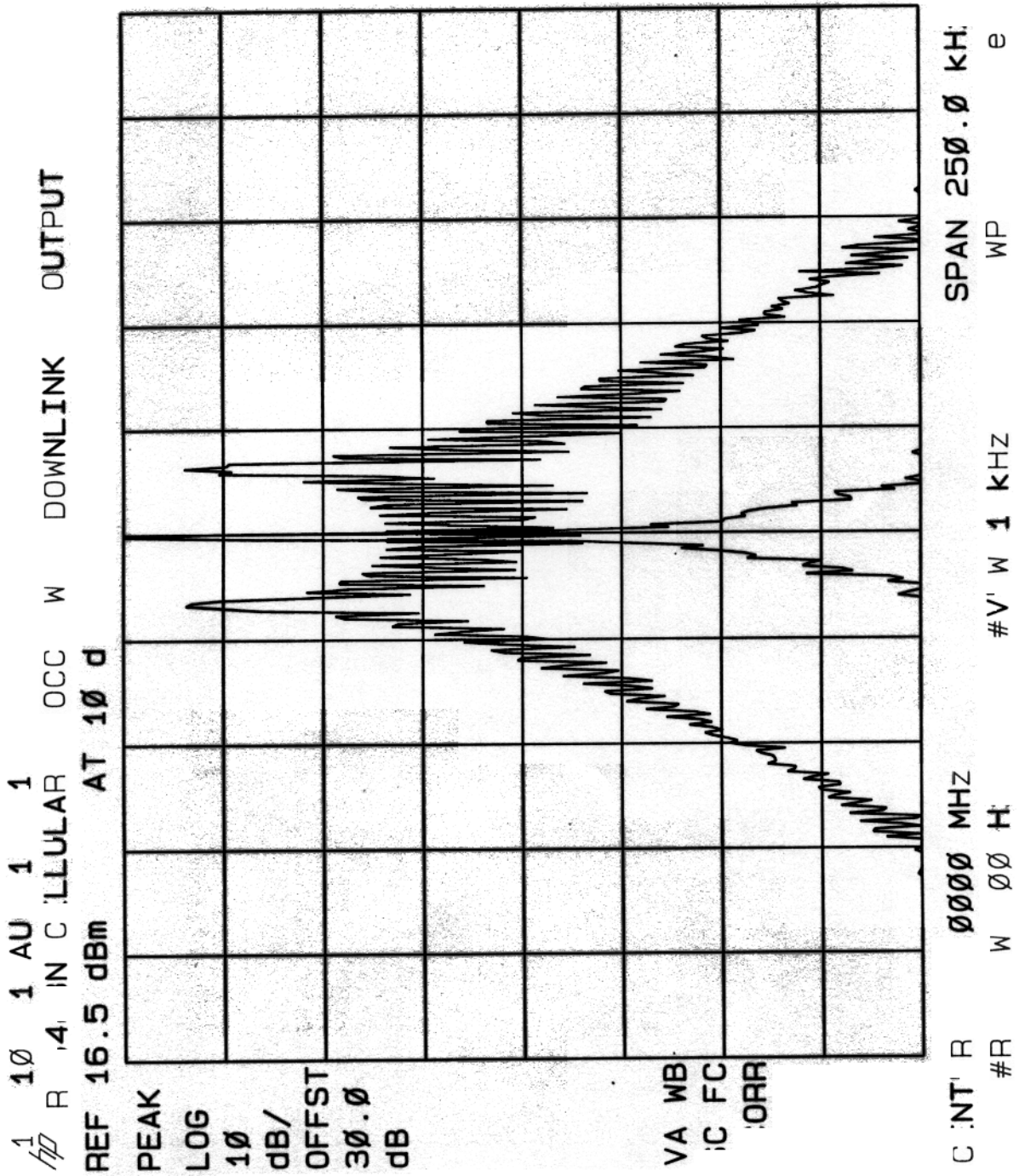


CENTER 859.0000 MHZ  
#RES BW 300 HZ  
SPAN 250.0 KHZ  
SWP 8.33 sec  
#VBW 1 KHZ

# RETLIF TESTING LABORATORIES

|                    |                                                                                |            |         |
|--------------------|--------------------------------------------------------------------------------|------------|---------|
| Test Method        | Occupied Bandwidth                                                             |            |         |
| Customer           | Cellular Specialties                                                           | Job No.    | R-3483N |
| Test Sample        | Mini Bidirectional Amplifier                                                   |            |         |
| Model No.          | 110                                                                            | Serial No. | n/a     |
| Test Specification | FCC Parts 2 and 90                                                             | Paragraph  | 2.989   |
| Operating Mode     | Amplifying cellular telephone signals                                          |            |         |
| Technician         | T. Cricco                                                                      | Date       | 8/19/99 |
| Notes              | Downlink - With 16KHz square wave FM Modulation applied to the carrier signal. |            |         |

Sheet **22** of **24**

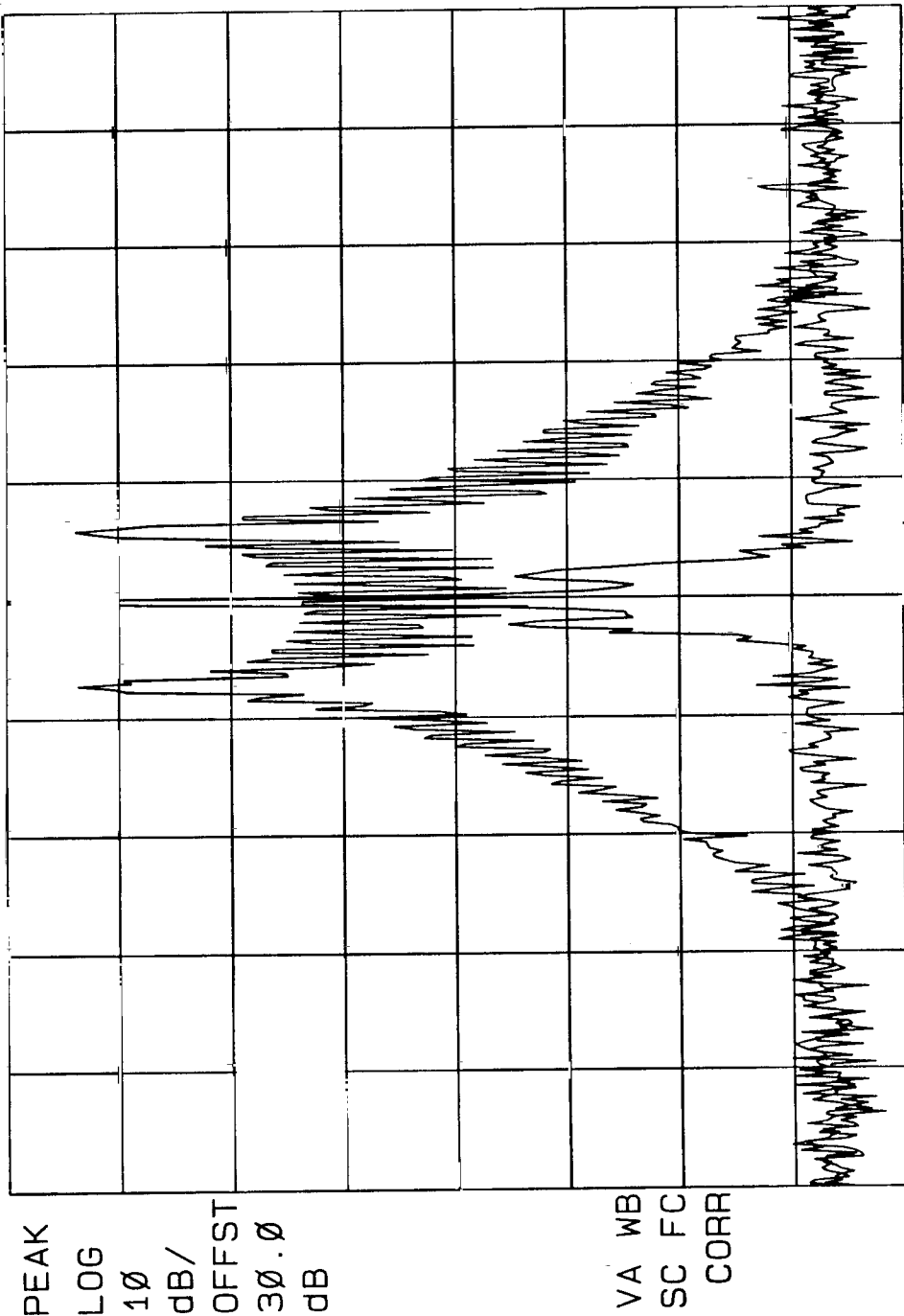


# RETLIF TESTING LABORATORIES

|                    |                                                                                |            |         |
|--------------------|--------------------------------------------------------------------------------|------------|---------|
| Test Method        | Occupied Bandwidth                                                             |            |         |
| Customer           | Cellular Specialties                                                           | Job No.    | R-3483N |
| Test Sample        | Mini Bidirectional Amplifier                                                   |            |         |
| Model No.          | 110                                                                            | Serial No. | n/a     |
| Test Specification | FCC Parts 2 and 90                                                             | Paragraph  | 2.989   |
| Operating Mode     | Amplifying cellular telephone signals                                          |            |         |
| Technician         | T. Cricco                                                                      | Date       | 8/19/99 |
| Notes              | Downlink - With 16KHz square wave FM Modulation applied to the carrier signal. |            |         |

Sheet 23 of 24

12:13:17 AUG 19, 1999  
 R-3483N CELLULAR - OCC BW INPUT  
 REF -9.0 dBm AT 10 dB



# RETLIF TESTING LABORATORIES

|                    |                                                                                |            |         |
|--------------------|--------------------------------------------------------------------------------|------------|---------|
| Test Method        | Occupied Bandwidth                                                             |            |         |
| Customer           | Cellular Specialties                                                           | Job No.    | R-3483N |
| Test Sample        | Mini Bidirectional Amplifier                                                   |            |         |
| Model No.          | 110                                                                            | Serial No. | n/a     |
| Test Specification | FCC Parts 2 and 90                                                             | Paragraph  | 2.989   |
| Operating Mode     | Amplifying cellular telephone signals                                          |            |         |
| Technician         | T. Cricco                                                                      | Date       | 8/19/99 |
| Notes              | Downlink - With 16KHz square wave FM Modulation applied to the carrier signal. |            |         |

Sheet 24 of 24

