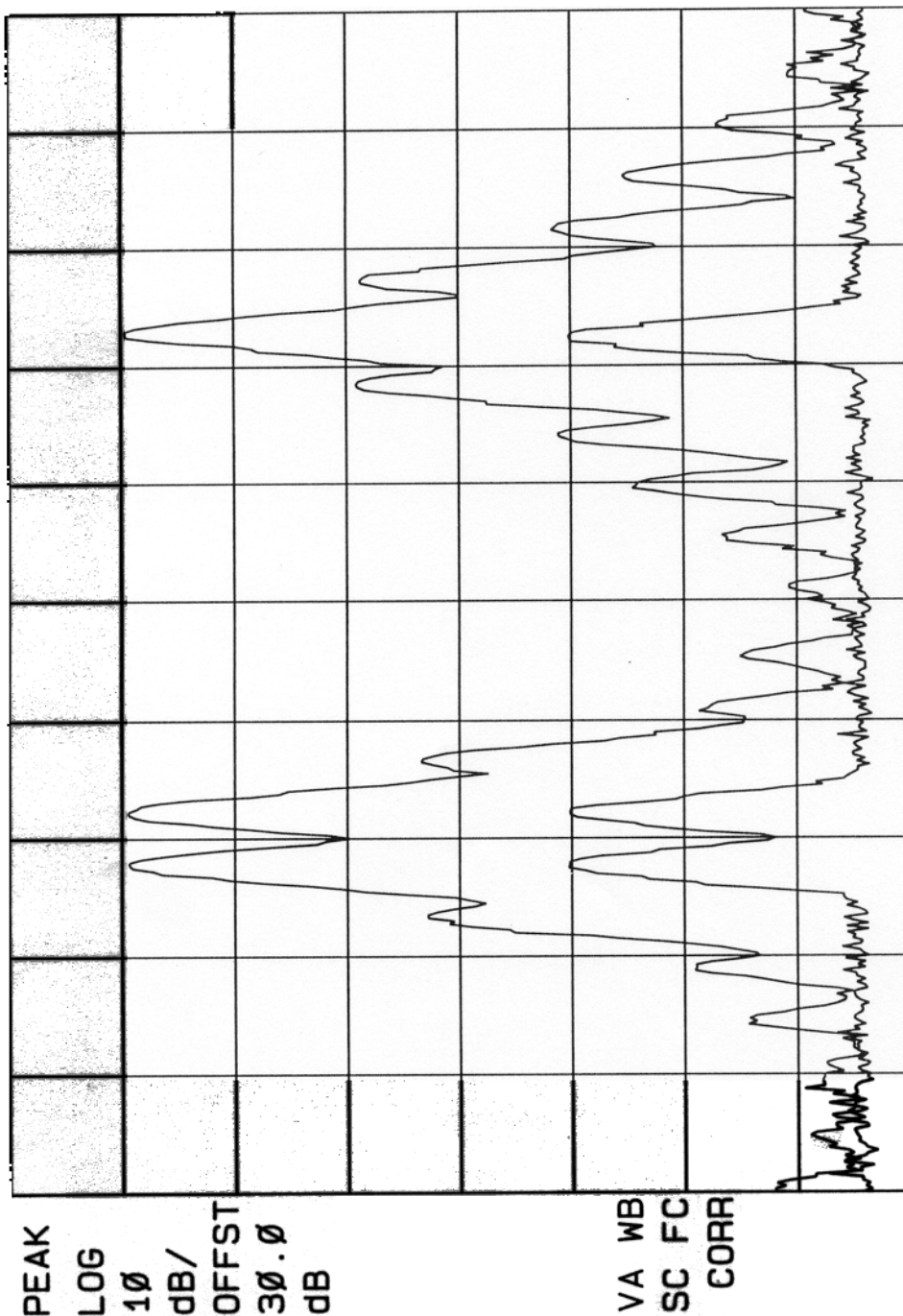


# RETLIF TESTING LABORATORIES

|                    |                                       |            |           |
|--------------------|---------------------------------------|------------|-----------|
| Test Method        | Intermodulation Characteristics       |            |           |
| Customer           | Cellular Specialties                  | Job No.    | R-3483N   |
| Test Sample        | Mini Bidirectional Amplifier          |            |           |
| Model No.          | 110                                   | Serial No. | n/a       |
| Test Specification | FCC Certification                     |            | Paragraph |
| Operating Mode     | Amplifying cellular telephone signals |            |           |
| Technician         | T. Cricco                             | Date       | 8/19/99   |
| Notes              | Uplink                                |            |           |

Sheet 1 of 4

15:55:09 AUG 19, 1999  
 R-3483N CELLULAR-INTERMODULATION-UPLINK  
 REF 30.0 dBm AT 10 dB



CENTER 813.50 MHz  
 #RES BW 300 kHz  
 #VBW 100 kHz  
 SPAN 25.00 MHz  
 SWP 20.0 msec

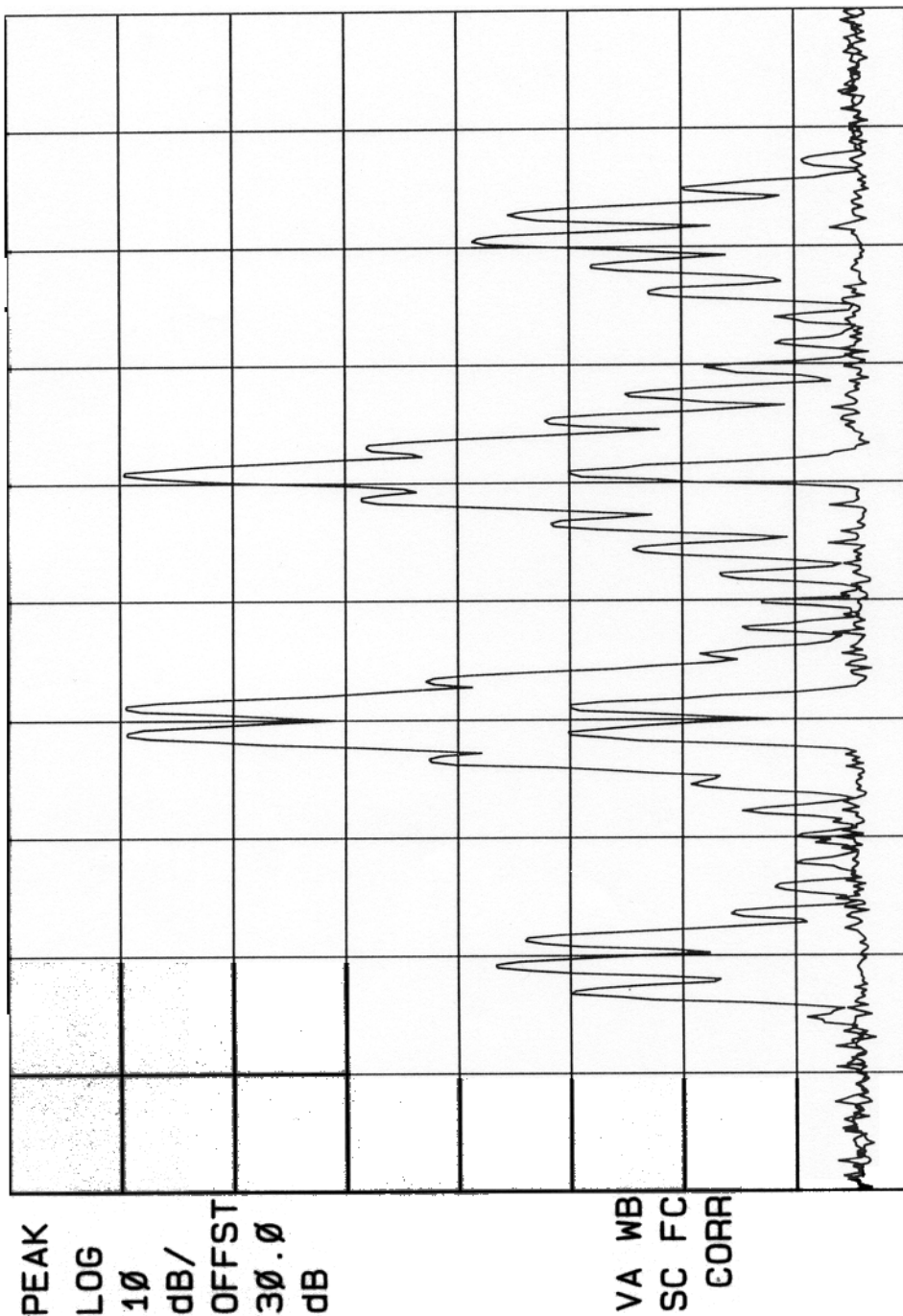
# RETLIF TESTING LABORATORIES

|                    |                                       |            |           |
|--------------------|---------------------------------------|------------|-----------|
| Test Method        | Intermodulation Characteristics       |            |           |
| Customer           | Cellular Specialties                  | Job No.    | R-3483N   |
| Test Sample        | Mini Bidirectional Amplifier          |            |           |
| Model No.          | 110                                   | Serial No. | n/a       |
| Test Specification | FCC Certification                     |            | Paragraph |
| Operating Mode     | Amplifying cellular telephone signals |            |           |
| Technician         | T. Cricco                             | Date       | 8/19/99   |
| Notes              | Uplink                                |            |           |

Sheet 2 of 4

16:04:23 AUG 19, 1999  
R-3483N CELLULAR-INTERMODULATION-UPLINK

REF 30.0 dBm AT 10 dB



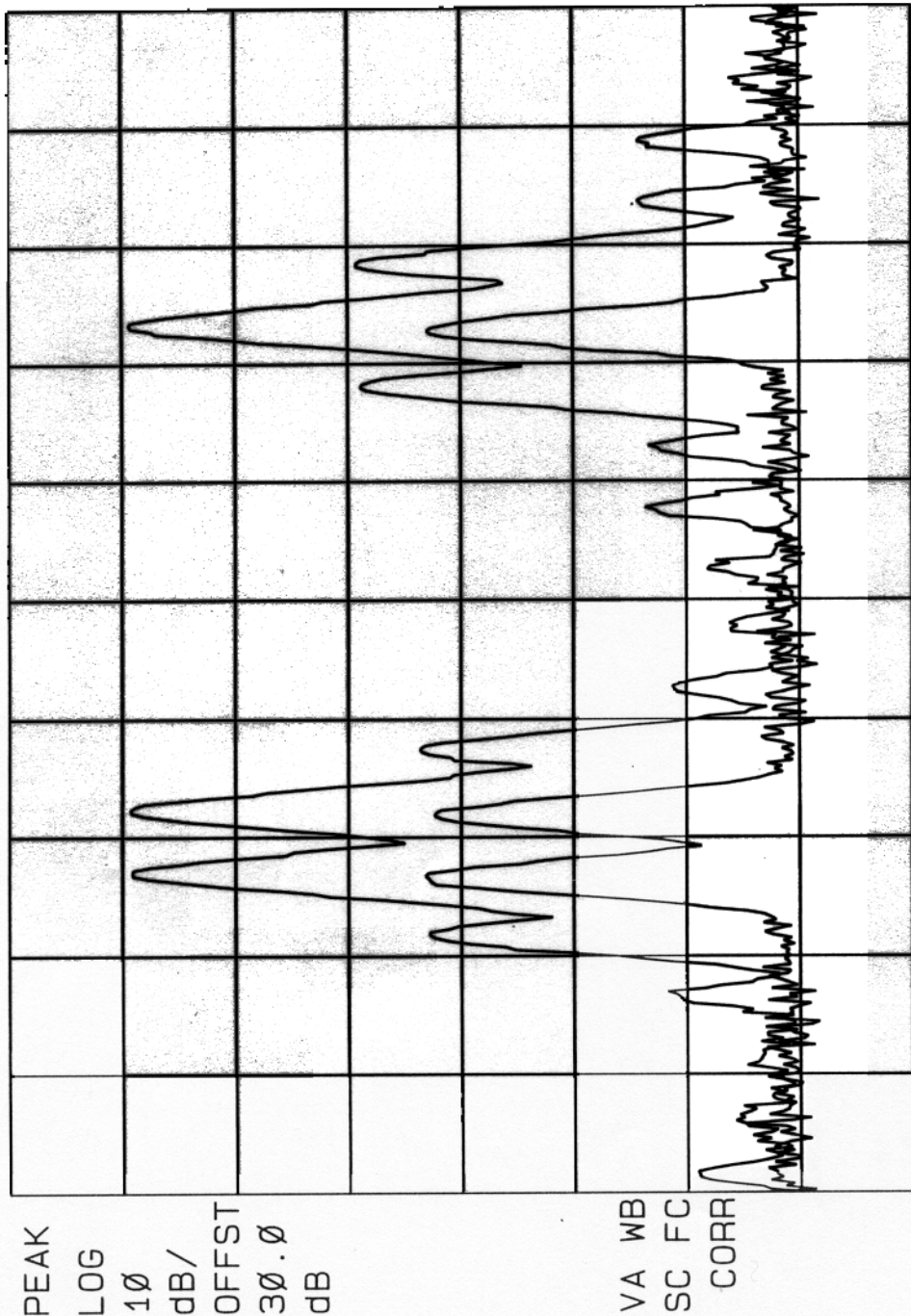
CENTER 813.50 MHZ  
#RES BW 300 KHz  
SPAN 50.00 MHZ  
SWP 20.0 msec  
#VBW 100 KHz

# RETLIF TESTING LABORATORIES

|                    |                                       |            |         |
|--------------------|---------------------------------------|------------|---------|
| Test Method        | Intermodulation Characteristics       |            |         |
| Customer           | Cellular Specialties                  | Job No.    | R-3483N |
| Test Sample        | Mini Bidirectional Amplifier          |            |         |
| Model No.          | 110                                   | Serial No. | n/a     |
| Test Specification | FCC Certification                     | Paragraph  |         |
| Operating Mode     | Amplifying cellular telephone signals |            |         |
| Technician         | T. Cricco                             | Date       | 8/19/99 |
| Notes              | Downlink                              |            |         |

Sheet 3 of 4

16:13:26 AUG 19, 1999  
~~170~~ R-3483N CELLULAR-INTERMODULATION-DOWNLINK  
 REF 20.0 dBm AT 10 dB

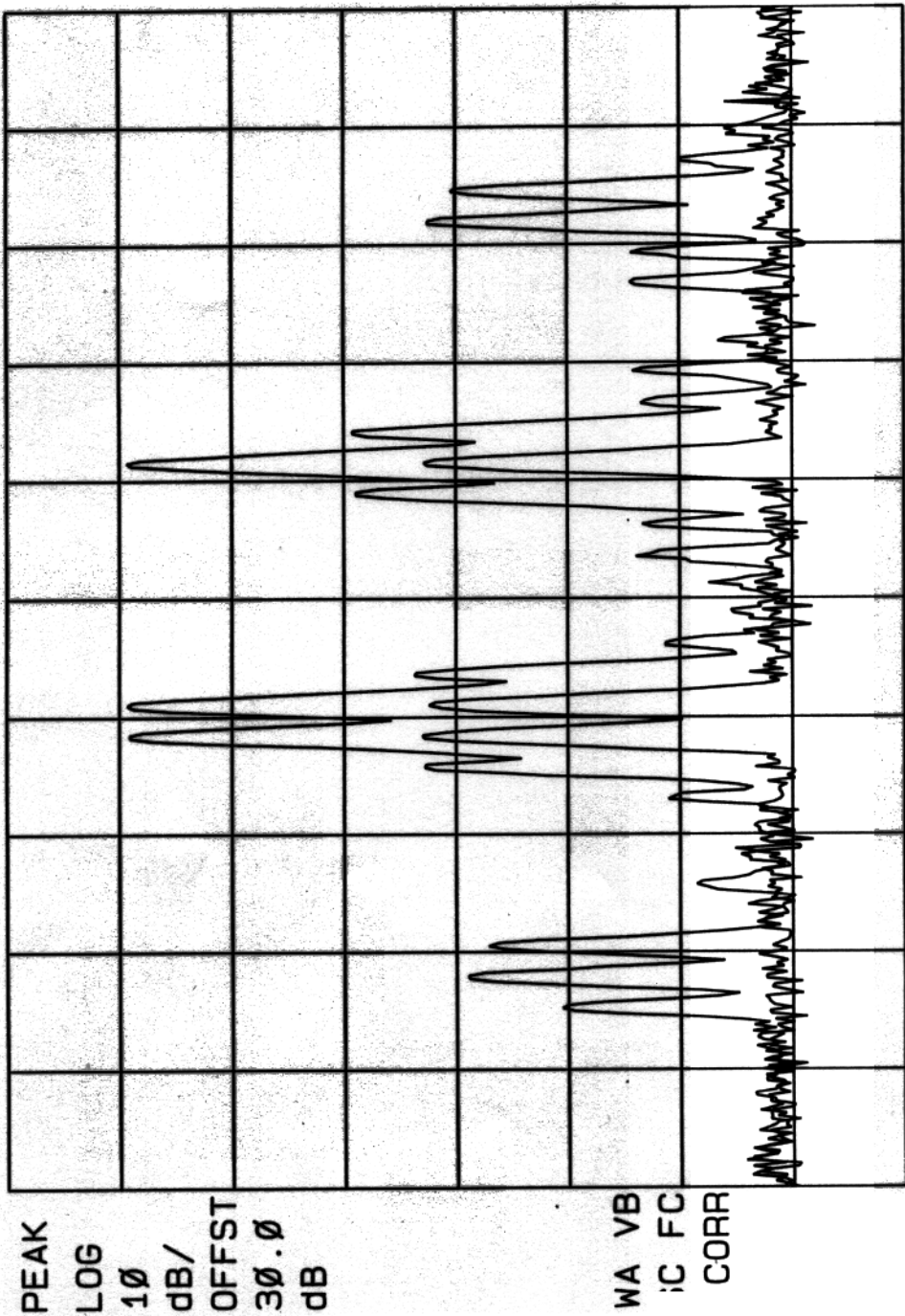


# RETLIF TESTING LABORATORIES

|                    |                                       |            |           |
|--------------------|---------------------------------------|------------|-----------|
| Test Method        | Intermodulation Characteristics       |            |           |
| Customer           | Cellular Specialties                  | Job No.    | R-3483N   |
| Test Sample        | Mini Bidirectional Amplifier          |            |           |
| Model No.          | 110                                   | Serial No. | n/a       |
| Test Specification | FCC Certification                     |            | Paragraph |
| Operating Mode     | Amplifying cellular telephone signals |            |           |
| Technician         | T. Cricco                             | Date       | 8/19/99   |
| Notes              | Downlink                              |            |           |

Sheet 4 of 4

1 1 AU 1 1  
 10 R 4 IN C LLULAR NT RMODULAT ON DOWNL NK  
 REF 20.0 dBm AT 10 d



C:NT R 58.50 MHz  
 #R 00 KH  
 #VBW 100 KHZ  
 #WP 00 m C