

# RETLIF TESTING LABORATORIES

## EMISSIONS DATA SHEET

|                     |                                 |                   |                                   |
|---------------------|---------------------------------|-------------------|-----------------------------------|
| Test Method:        | Intermodulation Characteristics |                   |                                   |
| Customer:           | Cellular Specialties, Inc.      | Test Sample:      | Dual Band Bidirectional Amplifier |
| Model No:           | CSI-BDA51062-C/P                | Serial No:        | CC060002                          |
| Test Specification: | FCC Part 2                      | Paragraph: 2.1047 | Date: 8/16/2006                   |
| Operating Mode:     | Amplifying input signal         |                   |                                   |
| Notes:              | Amps Band - FM - Downlink       |                   |                                   |

11: 32: 35 AUG 11, 2006

REF 30.0 dBm

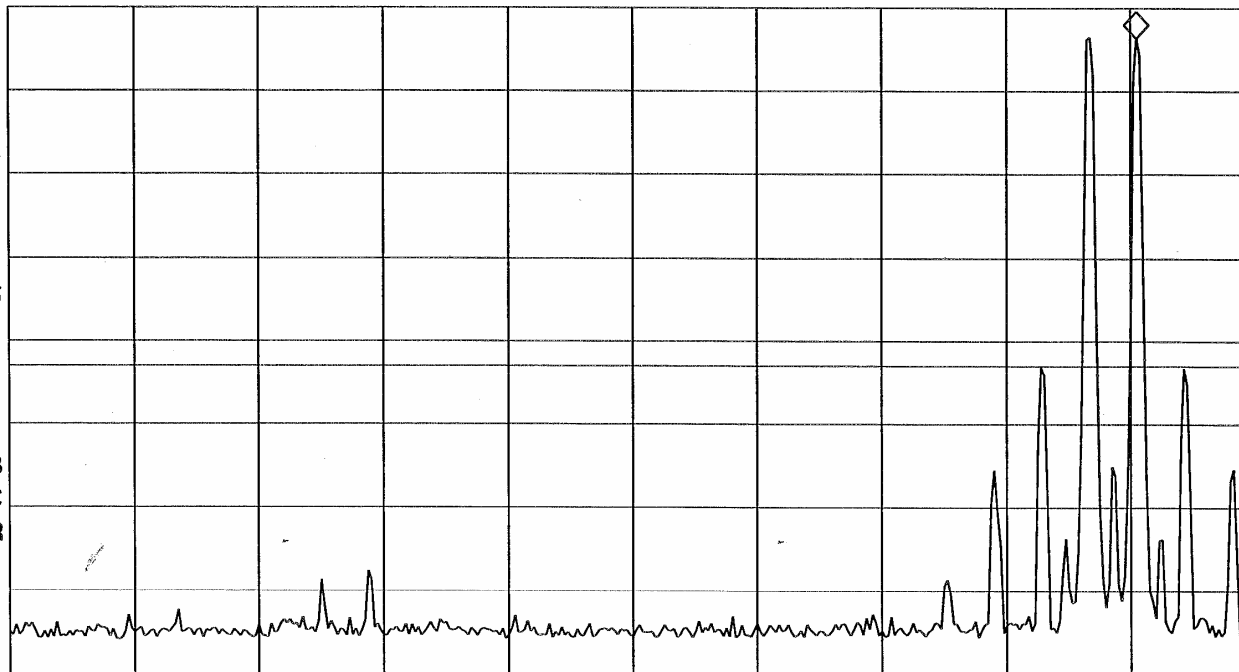
#AT 10 dB

MKR 892.53 MHz

26.41 dBm

PEAK  
LOG  
10  
dB/  
OFFST  
30.0  
dB  
DL  
-13.0  
dBm

VA SB  
SC FC  
CORR



START 869.00 MHz

#RES BW 30 KHz

#VBW 100 KHz

STOP 895.00 MHz

SWP 86.7 msec

# RETLIF TESTING LABORATORIES

## EMISSIONS DATA SHEET

|                     |                                 |              |                                   |
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| Customer:           | Cellular Specialties, Inc.      | Test Sample: | Dual Band Bidirectional Amplifier |
| Model No:           | CSI-BDA51062-C/P                | Serial No:   | CC060002                          |
| Test Specification: | FCC Part 2                      | Paragraph:   | 2.1047                            |
| Operating Mode:     | Amplifying input signal         |              |                                   |
| Notes:              | Amps Band - FM - Downlink       |              |                                   |
| Job No:             | R-4609N-1                       |              | Technician:                       |
|                     |                                 | M.Seamans    | Date:                             |
|                     |                                 | 8/16/2006    |                                   |

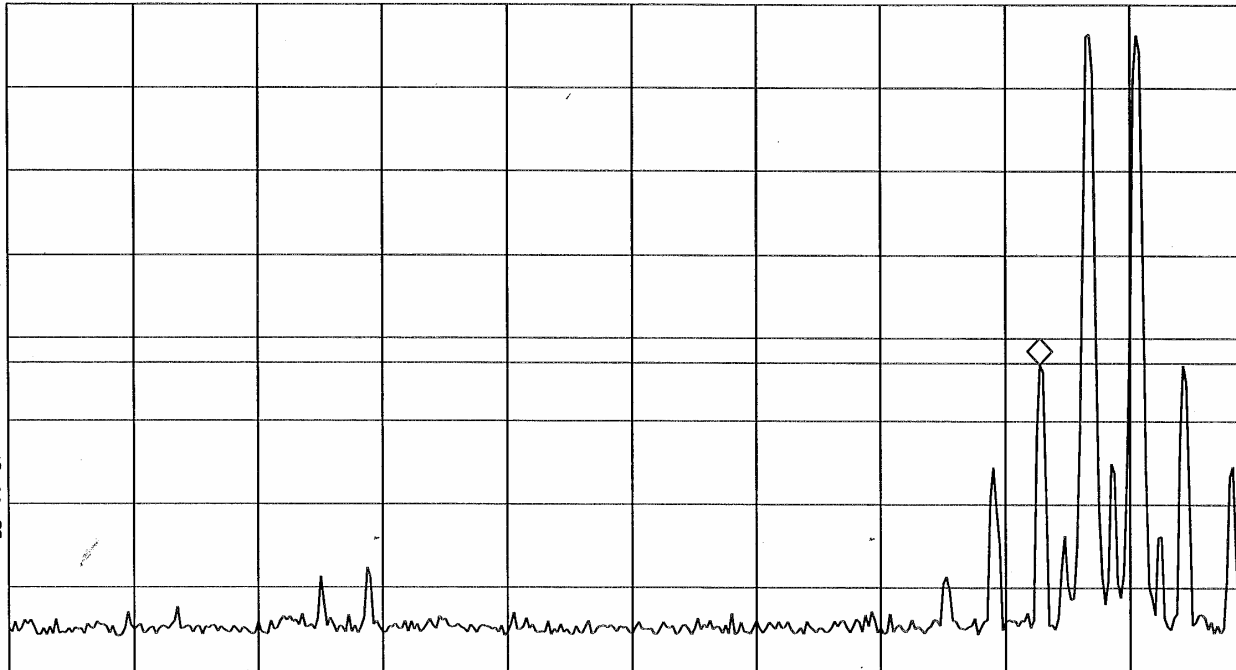
11: 32: 06 AUG 11, 2006

REF 30.0 dBm #AT 10 dB

MKR 890.52 MHz  
-13.15 dBm

PEAK  
LOG  
10  
dB/  
OFFST  
30.0  
dB  
DL  
-13.0  
dBm

VA SB  
SC FC  
CORR



START 869.00 MHz  
#RES BW 30 KHz

#VBW 100 KHz

STOP 895.00 MHz  
SWP 86.7 msec

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## EMISSIONS DATA SHEET

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| Customer:           | Cellular Specialties, Inc.      | Test Sample: | Dual Band Bidirectional Amplifier |
| Model No:           | CSI-BDA51062-C/P                | Serial No:   | CC060002                          |
| Test Specification: | FCC Part 2                      | Paragraph:   | 2.1047                            |
| Operating Mode:     | Amplifying input signal         |              |                                   |
| Notes:              | Amps Band - TDMA - Uplink       |              |                                   |
| Job No:             | R-4609N-1                       |              | Technician:                       |
|                     |                                 | M.Seamans    | Date:                             |
|                     |                                 | 8/16/2006    |                                   |

11: 32: 22 AUG 11, 2006

REF 30.0 dBm

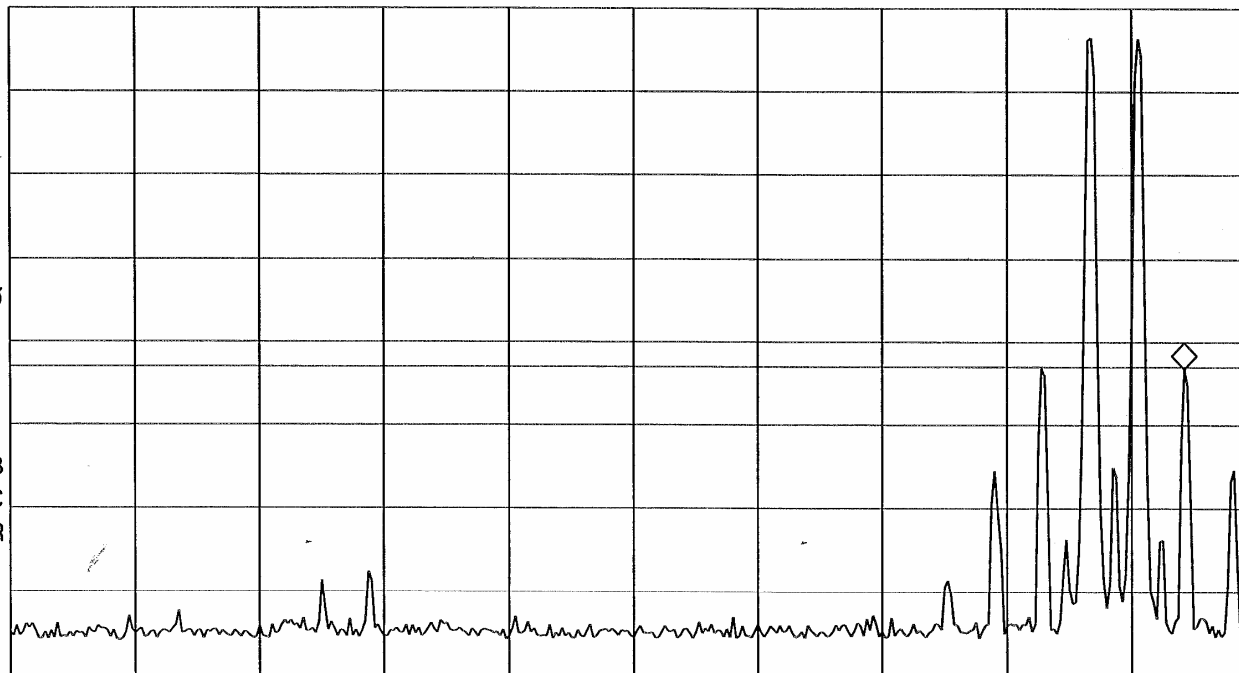
#AT 10 dB

MKR 893.51 MHz

-13.25 dBm

PEAK  
LOG  
10  
dB/  
OFFST  
30.0  
dB  
DL  
-13.0  
dBm

VA SB  
SC FC  
CORR



START 869.00 MHz

#RES BW 30 KHz

#VBW 100 KHz

STOP 895.00 MHz

SWP 86.7 msec

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## EMISSIONS DATA SHEET

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| Model No:           | CSI-BDA51062-C/P                | Serial No:   | CC060002                          |
| Test Specification: | FCC Part 2                      | Paragraph:   | 2.1047                            |
| Operating Mode:     | Amplifying input signal         |              |                                   |
| Notes:              | Amps Band - TDMA - Uplink       |              |                                   |
| Job No:             | R-4609N-1                       |              | Technician:                       |
|                     |                                 | M.Seamans    | Date:                             |
|                     |                                 | 8/16/2006    |                                   |

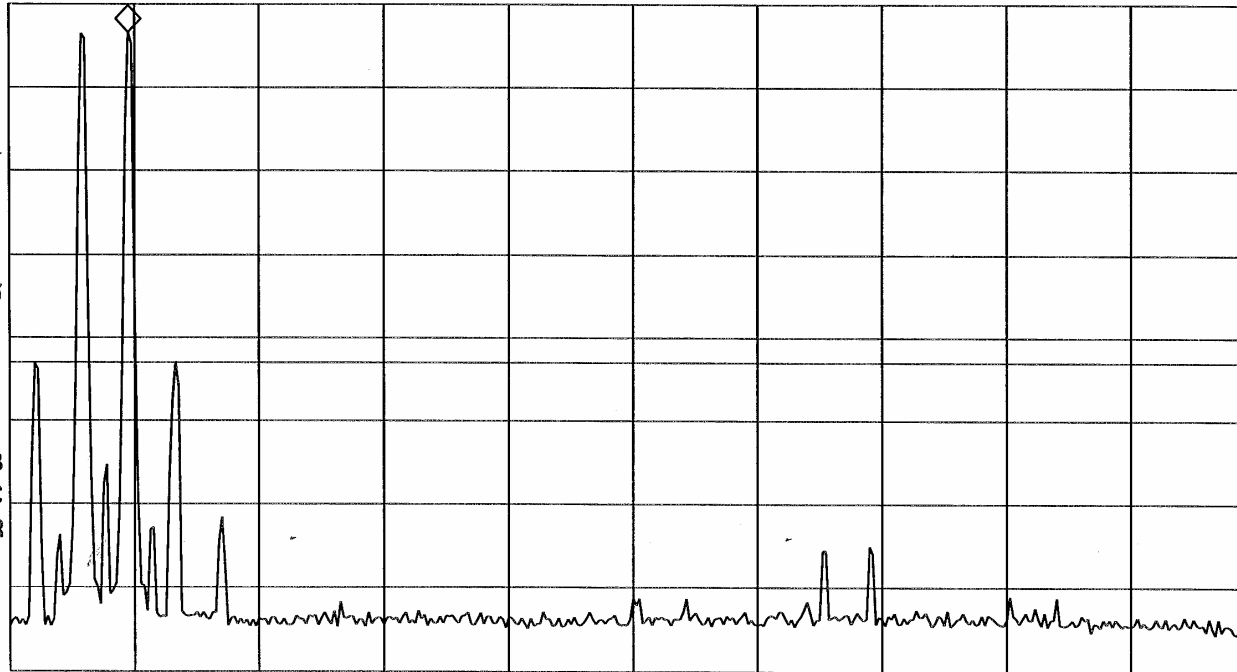
15:30:21 AUG 10, 2006

MKR 825.57 MHz  
26.67 dBm

REF 30.0 dBm AT 10 dB

PEAK  
LOG  
10  
dB/  
OFFST  
30.0  
dB  
DL  
-13.0  
dBm

MA SB  
SC FC  
CORR



START 823.00 MHz  
#RES BW 30 KHz

#VBW 100 KHz

STOP 850.00 MHz  
SWP 90.0 msec

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| Model No:           | CSI-BDA51062-C/P                | Serial No:        | CC060002                          |
| Test Specification: | FCC Part 2                      | Paragraph: 2.1047 | Date: 8/16/2006                   |
| Operating Mode:     | Amplifying input signal         |                   |                                   |
| Notes:              | Amps Band - TDMA - Uplink       |                   |                                   |

15: 29: 18 AUG 10, 2006

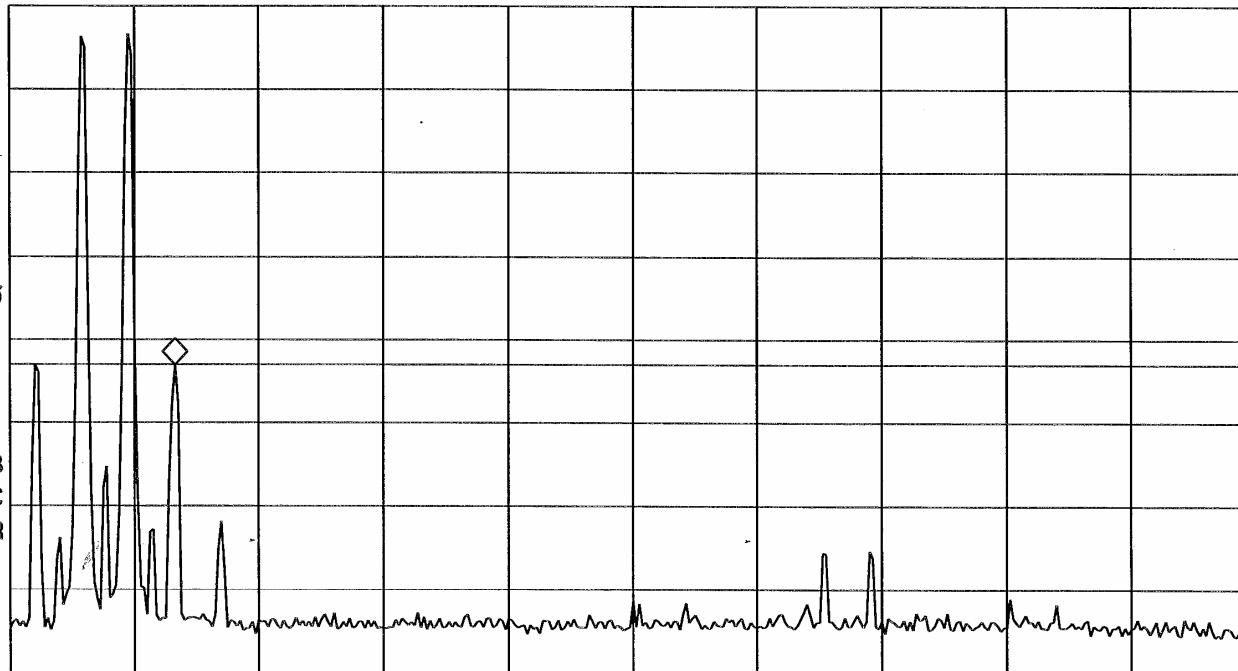
REF 30.0 dBm

AT 10 dB

MKR 826.58 MHz  
-13.05 dBm

PEAK  
LOG  
10  
dB/  
OFFST  
30.0  
dB  
DL  
-13.0  
dBm

MA SB  
SC FC  
CORR



START 823.00 MHz

#RES BW 30 KHz

#VBW 100 KHz

STOP 850.00 MHz

SWP 90.0 msec

# RETLIF TESTING LABORATORIES

## EMISSIONS DATA SHEET

|                     |                                 |              |                                   |
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| Model No:           | CSI-BDA51062-C/P                | Serial No:   | CC060002                          |
| Test Specification: | FCC Part 2                      | Paragraph:   | 2.1047                            |
| Operating Mode:     | Amplifying input signal         |              |                                   |
| Notes:              | Amps Band - TDMA - Uplink       |              |                                   |
| Job No:             | R-4609N-1                       |              | Technician:                       |
|                     |                                 | M.Seamans    | Date:                             |
|                     |                                 | 8/16/2006    |                                   |

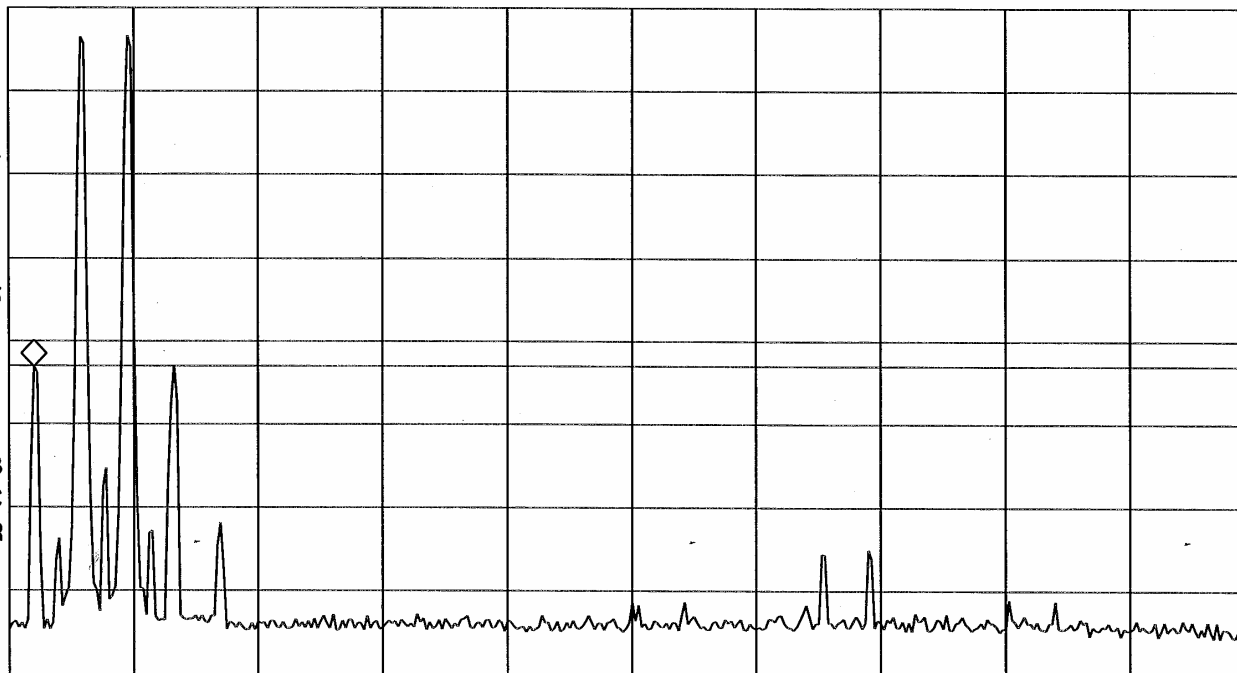
15: 29: 42 AUG 10, 2006

MKR 823.54 MHz  
-13.11 dBm

REF 30.0 dBm AT 10 dB

PEAK  
LOG  
10  
dB/  
OFFST  
30.0  
dB  
DL  
-13.0  
dBm

MA SB  
SC FC  
CORR



START 823.00 MHz

#RES BW 30 kHz

#VBW 100 kHz

STOP 850.00 MHz

SWP 90.0 msec

# RETLIF TESTING LABORATORIES

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| Test Specification: | FCC Part 2                      | Paragraph: 2.1047 | Date: 8/16/2006                   |
| Operating Mode:     | Amplifying input signal         |                   |                                   |
|                     | Amps Band - TDMA - Uplink       |                   |                                   |

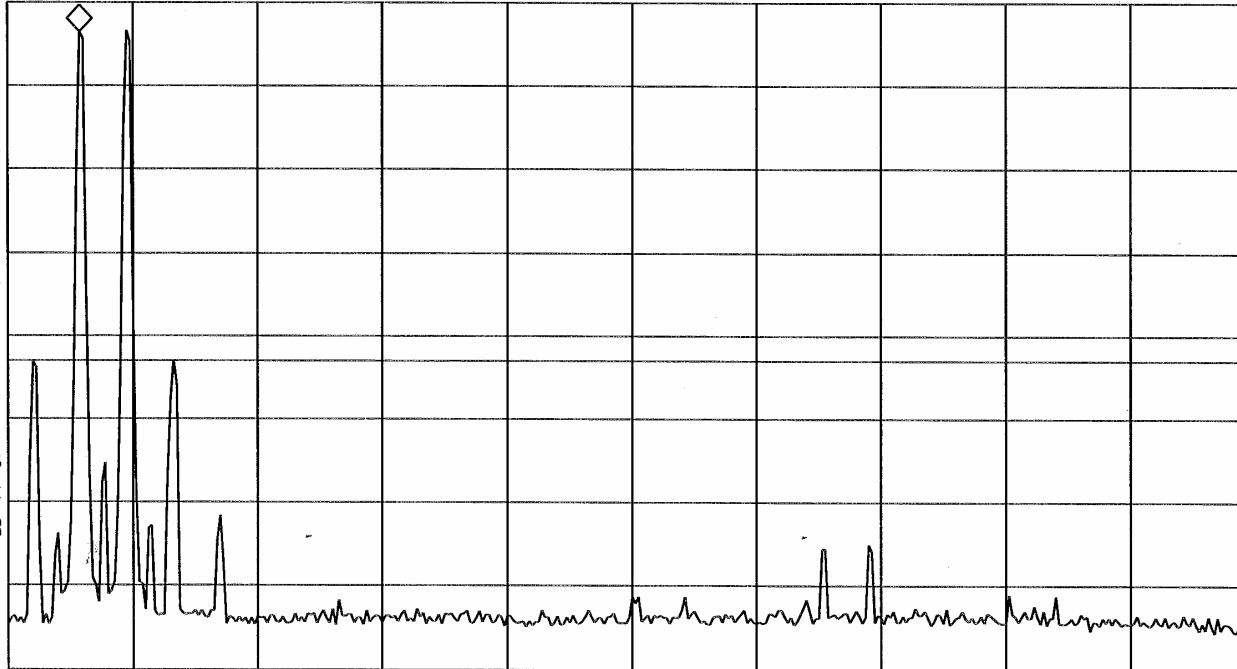
15: 30: 05 AUG 10, 2006

MKR 824.55 MHz  
26.51 dBm

REF 30.0 dBm AT 10 dB

PEAK  
LOG  
10  
dB/  
OFFST  
30.0  
dB  
DL  
-13.0  
dBm

MA SB  
SC FC  
CORR



START 823.00 MHz

#RES BW 30 kHz

#VBW 100 kHz

STOP 850.00 MHz

SWP 90.0 msec

# RETLIF TESTING LABORATORIES

## EMISSIONS DATA SHEET

|                     |                                 |                   |                                   |
|---------------------|---------------------------------|-------------------|-----------------------------------|
| Test Method:        | Intermodulation Characteristics |                   |                                   |
| Customer:           | Cellular Specialties, Inc.      | Test Sample:      | Dual Band Bidirectional Amplifier |
| Model No:           | CSI-BDA51062-C/P                | Serial No:        | CC060002                          |
| Test Specification: | FCC Part 2                      | Paragraph: 2.1047 | Date: 8/16/2006                   |
| Operating Mode:     | Amplifying input signal         |                   |                                   |
| Notes:              | Amps Band - TDMA - Uplink       |                   |                                   |

15: 48: 01 AUG 10, 2006

REF 30.0 dBm

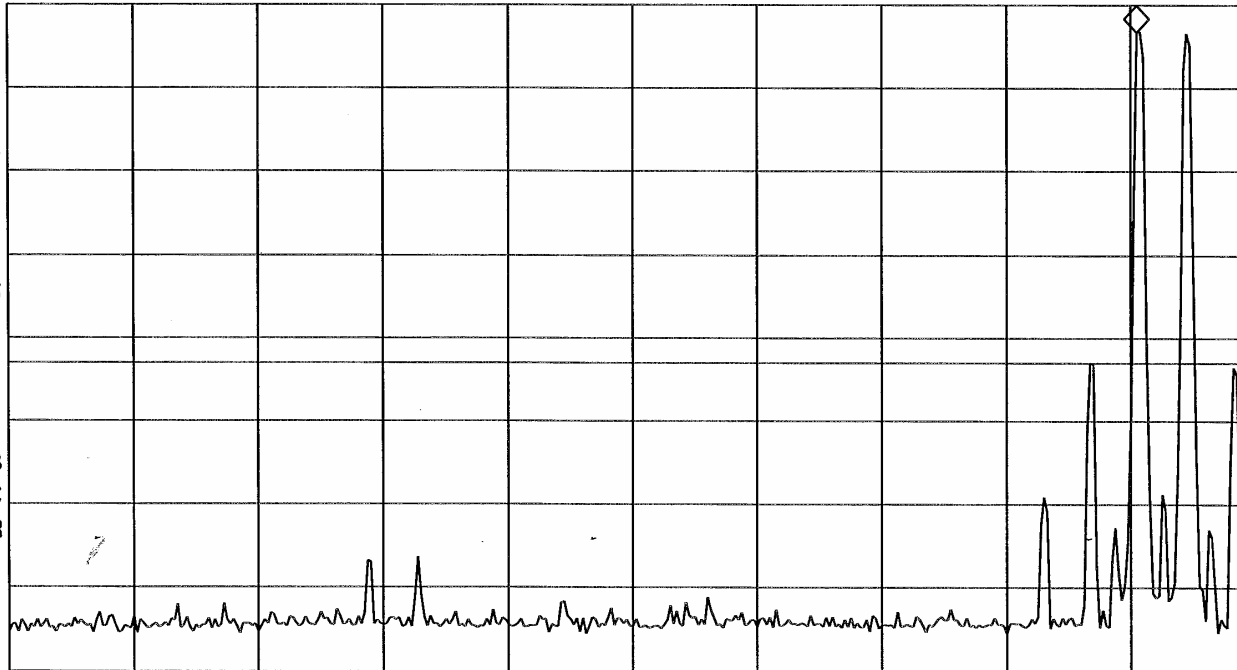
AT 10 dB

MKR 847.53 MHz

26.76 dBm

PEAK  
LOG  
10  
dB/  
OFFST  
30.0  
dB  
DL  
-13.0  
dBm

MA SB  
SC FC  
CORR



START 824.00 MHz

#RES BW 30 kHz

#VBW 100 kHz

STOP 850.00 MHz

SWP 86.7 msec

# RETLIF TESTING LABORATORIES

## EMISSIONS DATA SHEET

|                     |                                 |              |                                   |
|---------------------|---------------------------------|--------------|-----------------------------------|
| Test Method:        | Intermodulation Characteristics |              |                                   |
| Customer:           | Cellular Specialties, Inc.      | Test Sample: | Dual Band Bidirectional Amplifier |
| Model No:           | CSI-BDA51062-C/P                | Serial No:   | CC060002                          |
| Test Specification: | FCC Part 2                      | Paragraph:   | 2.1047                            |
| Operating Mode:     | Amplifying input signal         |              |                                   |
| Notes:              | Amps Band - TDMA - Uplink       |              |                                   |
| Job No:             | R-4609N-1                       |              | Technician:                       |
|                     |                                 | M.Seamans    | Date:                             |
|                     |                                 | 8/16/2006    |                                   |

15: 47: 40 AUG 10, 2006

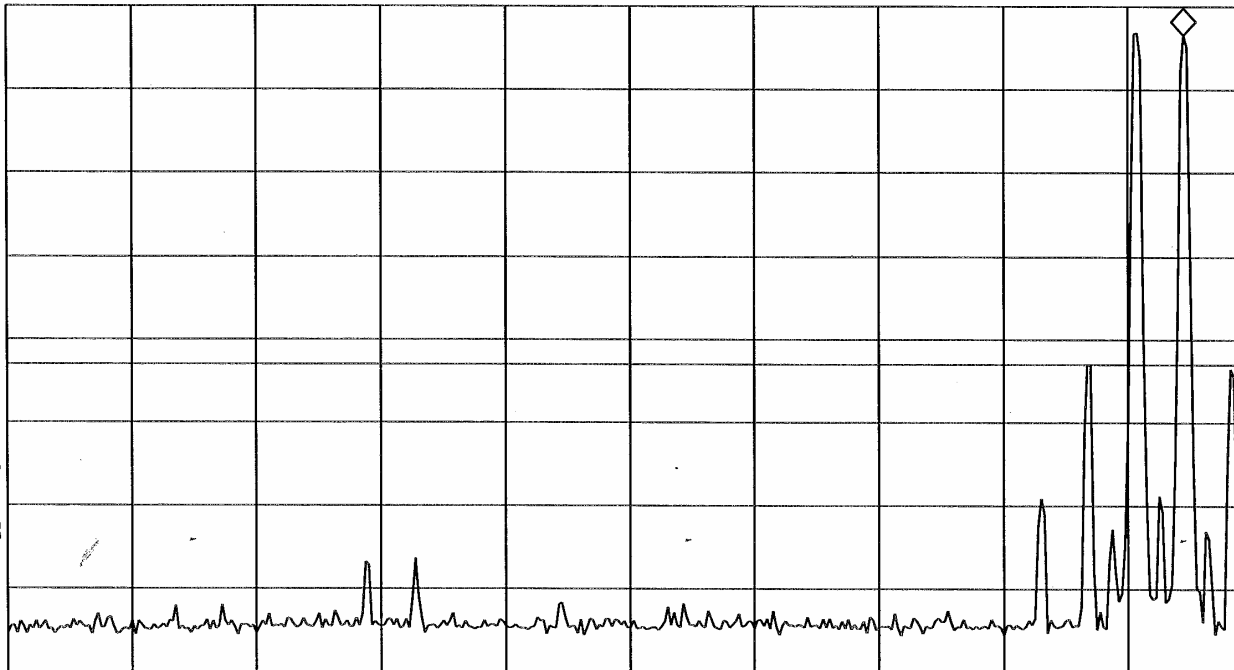
REF 30.0 dBm

AT 10 dB

MKR 848.57 MHz  
26.62 dBm

PEAK  
LOG  
10  
dB/  
OFFST  
30.0  
dB  
DL  
-13.0  
dBm

MA SB  
SC FC  
CORR



START 824.00 MHz

#RES BW 30 KHz

#VBW 100 KHz

STOP 850.00 MHz

SWP 86.7 msec

# RETLIF TESTING LABORATORIES

## EMISSIONS DATA SHEET

|                     |                                 |                   |                                   |
|---------------------|---------------------------------|-------------------|-----------------------------------|
| Test Method:        | Intermodulation Characteristics |                   |                                   |
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| Model No:           | CSI-BDA51062-C/P                | Serial No:        | CC060002                          |
| Test Specification: | FCC Part 2                      | Paragraph: 2.1047 | Date: 8/16/2006                   |
| Operating Mode:     | Amplifying input signal         |                   |                                   |
| Notes:              | Amps Band - TDMA - Uplink       |                   |                                   |

15: 47: 16 AUG 10, 2006

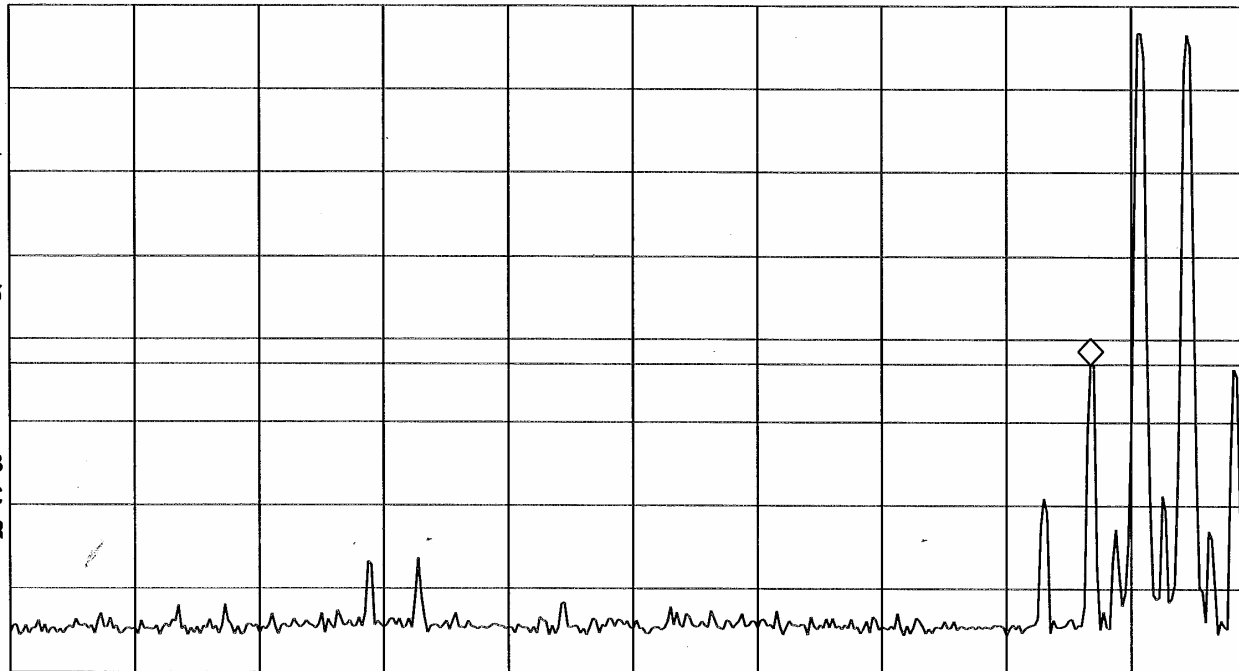
REF 30.0 dBm

AT 10 dB

MKR 846.56 MHz  
-13.03 dBm

PEAK  
LOG  
10  
dB/  
OFFST  
30.0  
dB  
DL  
-13.0  
dBm

MA SB  
SC FC  
CORR



START 824.00 MHz

#RES BW 30 kHz

#VBW 100 kHz

STOP 850.00 MHz

SWP 86.7 msec

# RETLIF TESTING LABORATORIES

## EMISSIONS DATA SHEET

|                     |                                 |              |                                   |
|---------------------|---------------------------------|--------------|-----------------------------------|
| Test Method:        | Intermodulation Characteristics |              |                                   |
| Customer:           | Cellular Specialties, Inc.      | Test Sample: | Dual Band Bidirectional Amplifier |
| Model No:           | CSI-BDA51062-C/P                | Serial No:   | CC060002                          |
| Test Specification: | FCC Part 2                      | Paragraph:   | 2.1047                            |
| Operating Mode:     | Amplifying input signal         |              |                                   |
| Notes:              | Amps Band -CDMA - Uplink        |              |                                   |
| Job No:             | R-4609N-1                       |              | Technician:                       |
|                     |                                 | M.Seamans    | Date:                             |
|                     |                                 | 8/16/2006    |                                   |

15:47:28 AUG 10, 2006

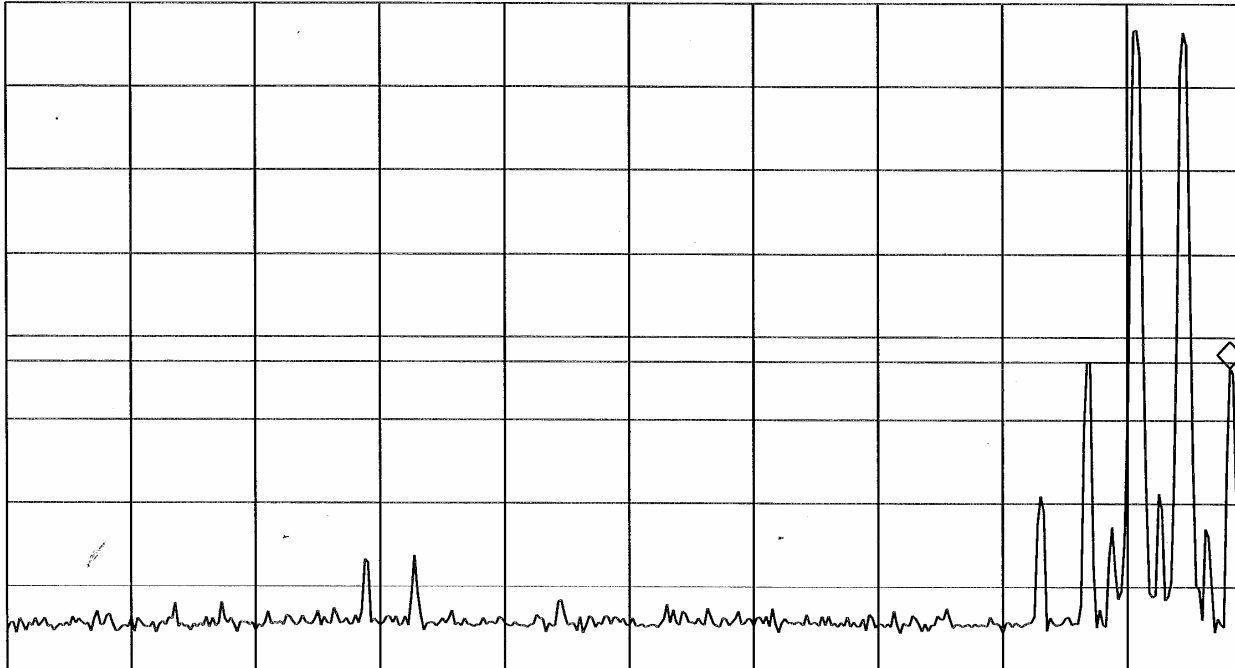
REF 30.0 dBm

AT 10 dB

MKR 849.55 MHz  
-13.66 dBm

PEAK  
LOG  
10  
dB/  
OFFST  
30.0  
dB  
DL  
-13.0  
dBm

MA SB  
SC FC  
CORR



START 824.00 MHz

#RES BW 30 KHz

#VBW 100 KHz

STOP 850.00 MHz

SWP 86.7 msec

# RETLIF TESTING LABORATORIES

## EMISSIONS DATA SHEET

|                     |                                 |              |                                   |
|---------------------|---------------------------------|--------------|-----------------------------------|
| Test Method:        | Intermodulation Characteristics |              |                                   |
| Customer:           | Cellular Specialties, Inc.      | Test Sample: | Dual Band Bidirectional Amplifier |
| Model No:           | CSI-BDA51062-C/P                | Serial No:   | CC060002                          |
| Test Specification: | FCC Part 2                      | Paragraph:   | 2.1047                            |
| Operating Mode:     | Amplifying input signal         |              |                                   |
| Notes:              | Amps Band -CDMA - Uplink        |              |                                   |
| Job No:             | R-4609N-1                       |              | Technician:                       |
|                     |                                 | M.Seamans    | Date:                             |
|                     |                                 | 8/16/2006    |                                   |

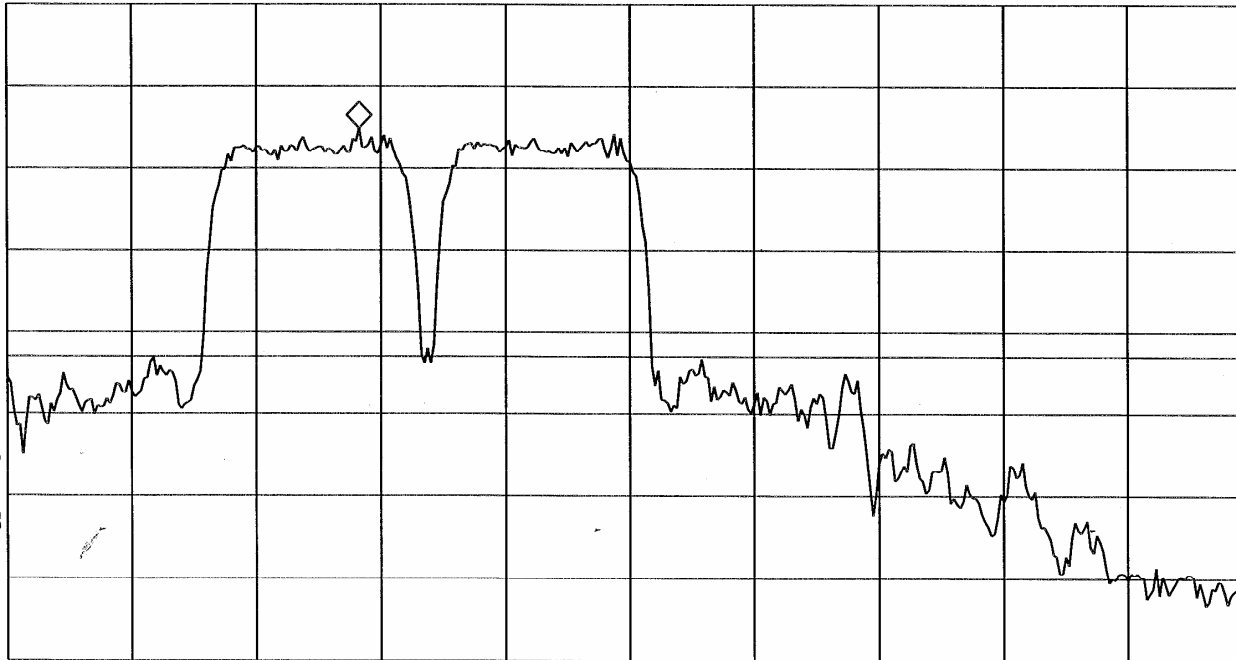
08: 52: 11 AUG 11, 2006

REF 30.0 dBm

AT 10 dB

MKR 830.63 MHz  
14.95 dBm

PEAK  
LOG  
10  
dB/  
OFFST  
30.0  
dB  
DL  
-13.0  
dBm  
VA SB  
SC FC  
CORR



START 823.00 MHz

#RES BW 30 KHz

#VBW 100 KHz

STOP 850.00 MHz

SWP 90.0 msec

# RETLIF TESTING LABORATORIES

## EMISSIONS DATA SHEET

|                     |                                 |                   |                                   |
|---------------------|---------------------------------|-------------------|-----------------------------------|
| Test Method:        | Intermodulation Characteristics |                   |                                   |
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| Model No:           | CSI-BDA51062-C/P                | Serial No:        | CC060002                          |
| Test Specification: | FCC Part 2                      | Paragraph: 2.1047 | Date:                             |
| Operating Mode:     | Amplifying input signal         |                   |                                   |
| Notes:              | Amps Band -CDMA - Uplink        |                   |                                   |

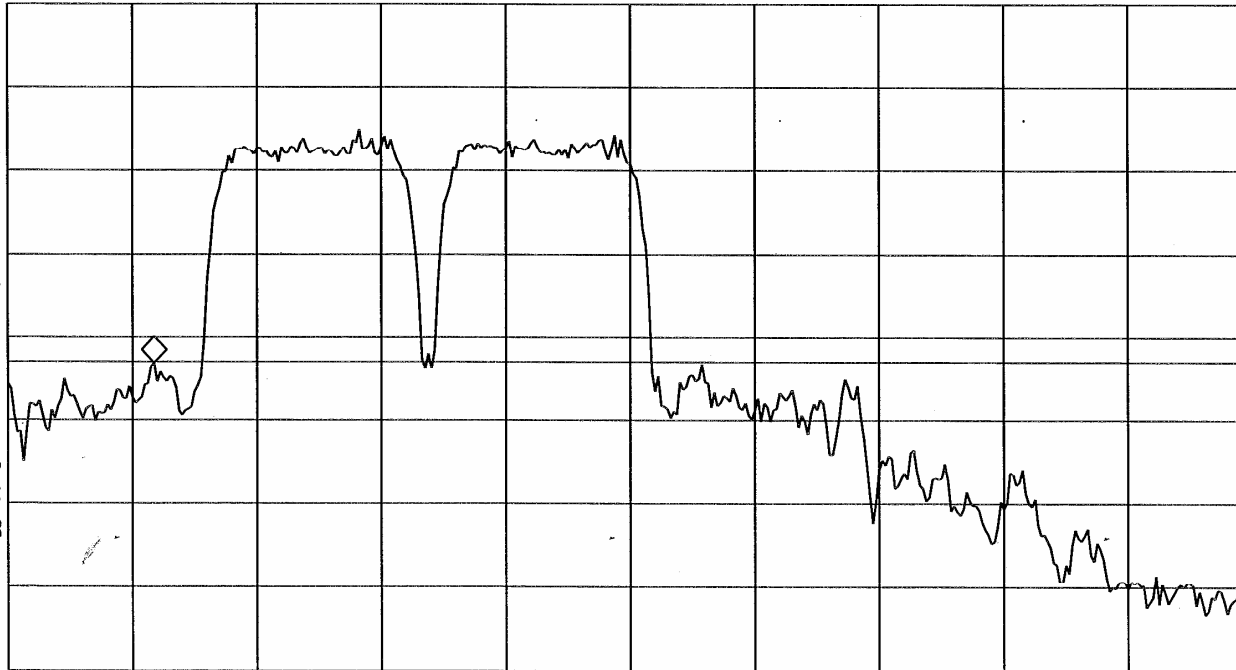
08:49:46 AUG 11, 2006

MKR 826.17 MHz  
-13.13 dBm

REF 30.0 dBm AT 10 dB

PEAK  
LOG  
10  
dB/  
OFFST  
30.0  
dB  
DL  
-13.0  
dBm

VA SB  
SC FC  
CORR



START 823.00 MHz  
#RES BW 30 KHz

#VBW 100 KHz

STOP 850.00 MHz  
SWP 90.0 msec

# RETLIF TESTING LABORATORIES

## EMISSIONS DATA SHEET

|                     |                                 |              |                                   |
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| Model No:           | CSI-BDA51062-C/P                | Serial No:   | CC060002                          |
| Test Specification: | FCC Part 2                      | Paragraph:   | 2.1047                            |
| Operating Mode:     | Amplifying input signal         |              |                                   |
| Notes:              | Amps Band -CDMA - Uplink        |              |                                   |
| Job No:             | R-4609N-1                       |              | Technician:                       |
|                     |                                 | M.Seamans    | Date:                             |
|                     |                                 | 8/16/2006    |                                   |

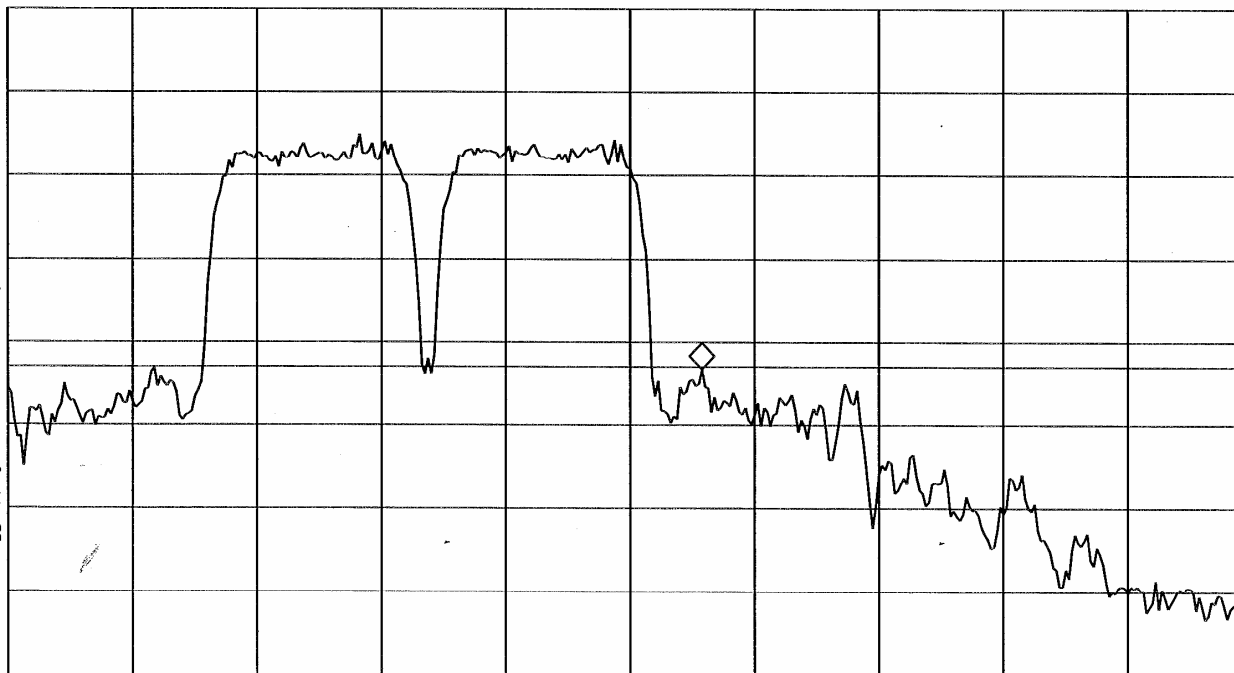
08:50:34 AUG 11, 2006

MKR 838.05 MHz  
-13.28 dBm

REF 30.0 dBm AT 10 dB

PEAK  
LOG  
10  
dB/  
OFFST  
30.0  
dB  
DL  
-13.0  
dBm

VA SB  
SC FC  
CORR



START 823.00 MHz  
#RES BW 30 KHz

#VBW 100 KHz

STOP 850.00 MHz  
SWP 90.0 msec

# RETLIF TESTING LABORATORIES

## EMISSIONS DATA SHEET

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| Model No:           | CSI-BDA51062-C/P                | Serial No:        | CC060002                          |
| Test Specification: | FCC Part 2                      | Paragraph: 2.1047 | Date:                             |
| Operating Mode:     | Amplifying input signal         |                   |                                   |
| Notes:              | Amps Band -CDMA - Uplink        |                   |                                   |

08: 51: 37 AUG 11, 2006

MKR 836.16 MHz  
14.29 dBm

REF 30.0 dBm AT 10 dB

PEAK  
LOG  
10  
dB/  
OFFST  
30.0  
dB  
DL  
-13.0  
dBm

VA SB  
SC FC  
CORR



START 823.00 MHz  
#RES BW 30 KHz

#VBW 100 KHz

STOP 850.00 MHz  
SWP 90.0 msec

# RETLIF TESTING LABORATORIES

## EMISSIONS DATA SHEET

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| Test Specification: | FCC Part 2                      | Paragraph: 2.1047 | Date: 8/16/2006                   |
| Operating Mode:     | Amplifying input signal         |                   |                                   |
| Notes:              | Amps Band -CDMA - Uplink        |                   |                                   |

09:05:24 AUG 11, 2006

REF 30.0 dBm

AT 10 dB

MKR 836.16 MHz

-13.07 dBm

PEAK

LOG

10

dB/

OFFST

30.0

dB

DL

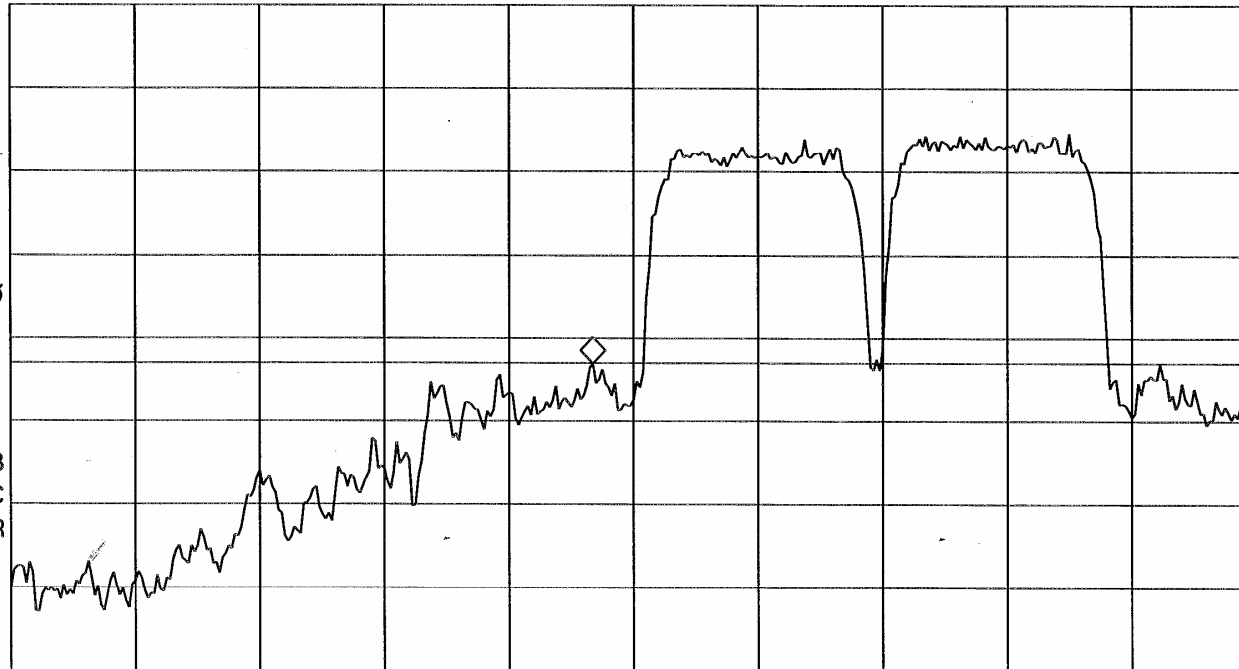
-13.0

dBm

VA SB

SC FC

CQRR



START 824.00 MHz

#RES BW 30 kHz

#VBW 100 kHz

STOP 850.00 MHz

SWP 86.7 msec

# RETLIF TESTING LABORATORIES

## EMISSIONS DATA SHEET

|                     |                                 |                   |                                   |
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| Operating Mode:     | Amplifying input signal         |                   |                                   |
| Notes:              | Amps Band -CDMA - Uplink        |                   |                                   |

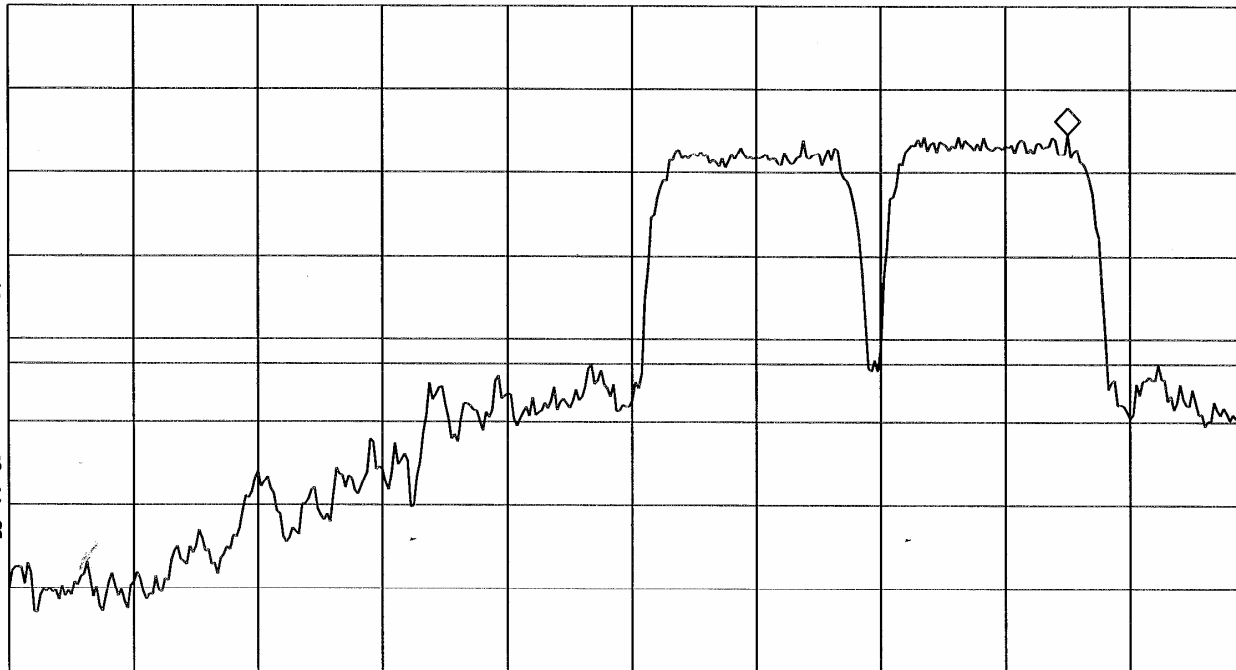
09:06:20 AUG 11, 2006

MKR 846.10 MHz  
14.64 dBm

REF 30.0 dBm AT 10 dB

PEAK  
LOG  
10  
dB/  
OFFST  
30.0  
dB  
DL  
-13.0  
dBm

VA SB  
SC FC  
CORR



START 824.00 MHz  
#RES BW 30 KHz

#VBW 100 KHz

STOP 850.00 MHz  
SWP 86.7 msec

# RETLIF TESTING LABORATORIES

## EMISSIONS DATA SHEET

|                     |                                 |                   |                                   |
|---------------------|---------------------------------|-------------------|-----------------------------------|
| Test Method:        | Intermodulation Characteristics |                   |                                   |
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| Model No:           | CSI-BDA51062-C/P                | Serial No:        | CC060002                          |
| Test Specification: | FCC Part 2                      | Paragraph: 2.1047 | Date:                             |
| Operating Mode:     | Amplifying input signal         |                   |                                   |
| Notes:              | Amps Band -CDMA - Uplink        |                   |                                   |

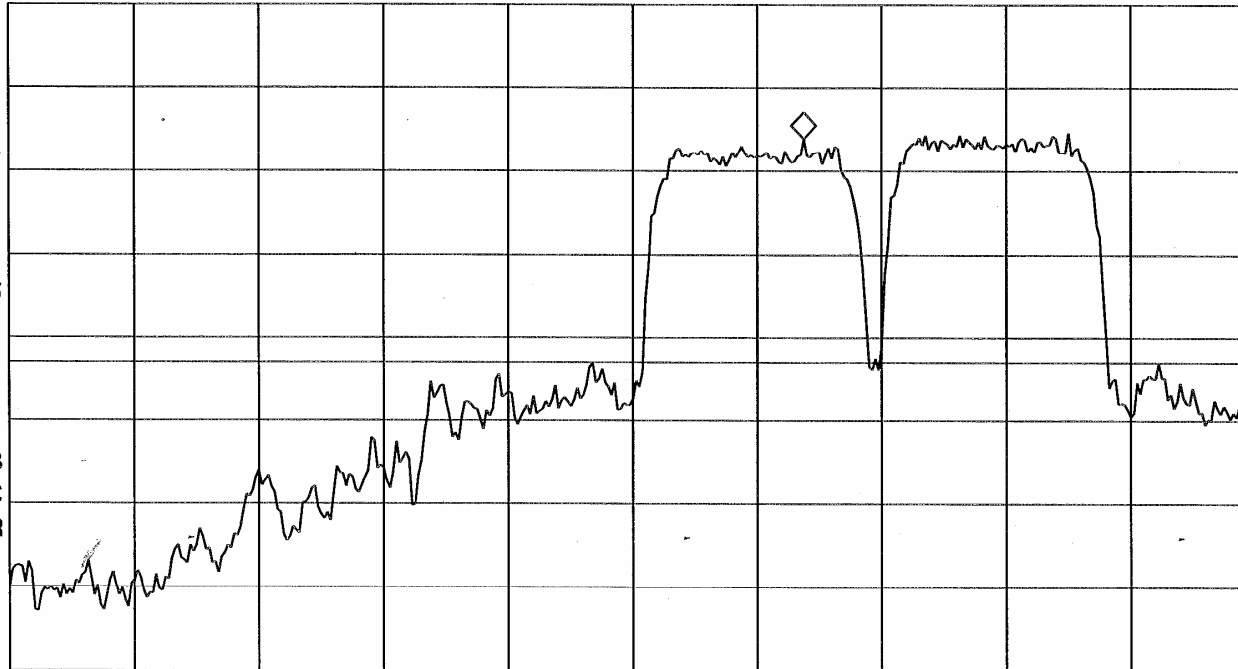
09:07:02 AUG 11, 2006

MKR 840.58 MHz  
13.92 dBm

REF 30.0 dBm AT 10 dB

PEAK  
LOG  
10  
dB/  
OFFST  
30.0  
dB  
DL  
-13.0  
dBm

VA SB  
SC FC  
CORR



START 824.00 MHz  
#RES BW 30 KHz

#VBW 100 KHz

STOP 850.00 MHz  
SWP 86.7 msec

# RETLIF TESTING LABORATORIES

## EMISSIONS DATA SHEET

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| Test Specification: | FCC Part 2                      | Paragraph: 2.1047 | Date: 8/16/2006                   |
| Operating Mode:     | Amplifying input signal         |                   |                                   |
| Notes:              | Amps Band -CDMA - Uplink        |                   |                                   |

09:05:49 AUG 11, 2006

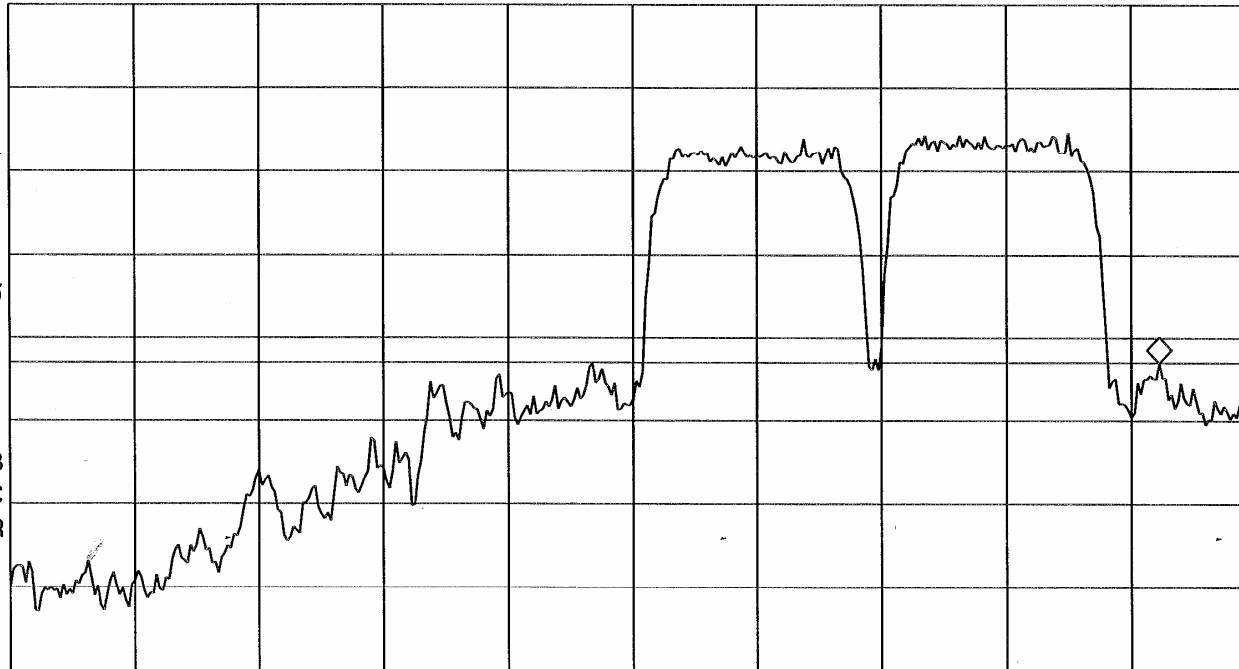
REF 30.0 dBm

AT 10 dB

MKR 847.99 MHz  
-13.05 dBm

PEAK  
LOG  
10  
dB/  
OFFST  
30.0  
dB  
DL  
-13.0  
dBm

VA SB  
SC FC  
CORR



START 824.00 MHz

#RES BW 30 kHz

#VBW 100 kHz

STOP 850.00 MHz

SWP 86.7 msec

# RETLIF TESTING LABORATORIES

## EMISSIONS DATA SHEET

|                     |                                 |                   |                                   |
|---------------------|---------------------------------|-------------------|-----------------------------------|
| Test Method:        | Intermodulation Characteristics |                   |                                   |
| Customer:           | Cellular Specialties, Inc.      | Test Sample:      | Dual Band Bidirectional Amplifier |
| Model No:           | CSI-BDA51062-C/P                | Serial No:        | CC060002                          |
| Test Specification: | FCC Part 2                      | Paragraph: 2.1047 | Date: 8/16/2006                   |
| Operating Mode:     | Amplifying input signal         |                   |                                   |
| Notes:              | Amps Band -FM - Uplink          |                   |                                   |

16: 16: 35 AUG 10, 2006

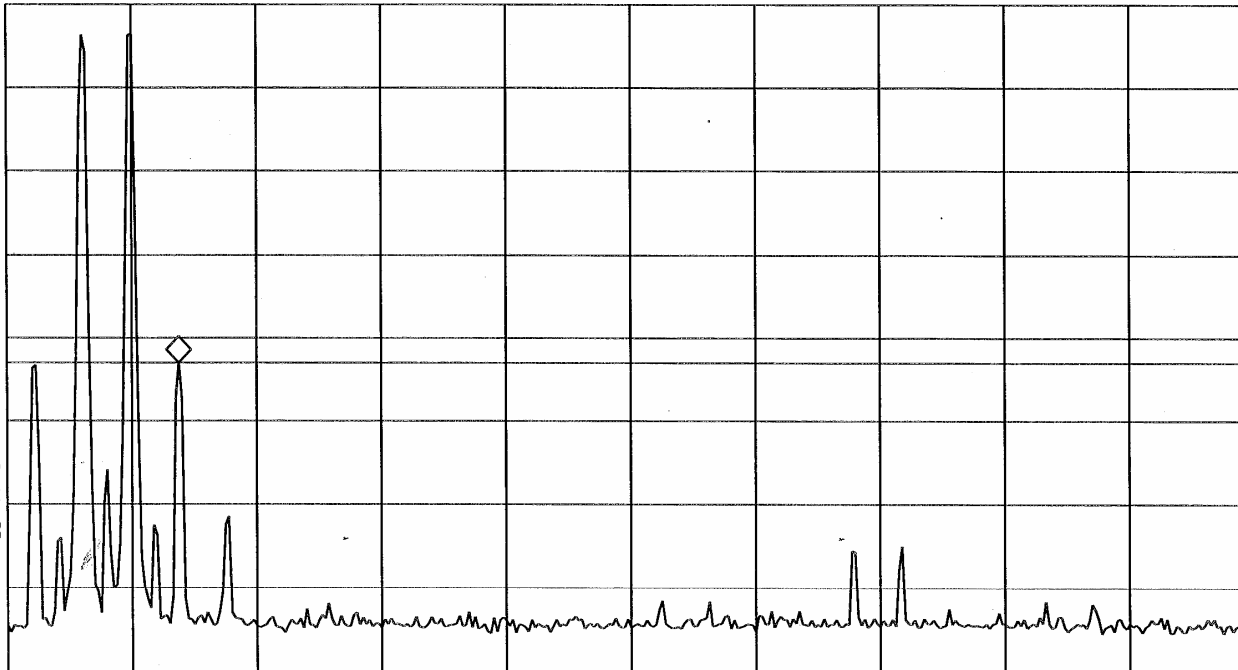
REF 30.0 dBm

AT 10 dB

MKR 826.58 MHz  
-13.01 dBm

PEAK  
LOG  
10  
dB/  
OFFST  
30.0  
dB  
DL  
-13.0  
dBm

MA SB  
SC FC  
CORR



START 823.00 MHz

#RES BW 30 kHz

#VBW 100 kHz

STOP 849.00 MHz

SWP 86.7 msec

# RETLIF TESTING LABORATORIES

## EMISSIONS DATA SHEET

|                     |                                 |              |                                   |
|---------------------|---------------------------------|--------------|-----------------------------------|
| Test Method:        | Intermodulation Characteristics |              |                                   |
| Customer:           | Cellular Specialties, Inc.      | Test Sample: | Dual Band Bidirectional Amplifier |
| Model No:           | CSI-BDA51062-C/P                | Serial No:   | CC060002                          |
| Test Specification: | FCC Part 2                      | Paragraph:   | 2.1047                            |
| Operating Mode:     | Amplifying input signal         |              |                                   |
| Notes:              | Amps Band -FM - Uplink          |              |                                   |
| Job No:             | R-4609N-1                       |              | Technician:                       |
|                     |                                 | M.Seamans    |                                   |
| Date:               | 8/16/2006                       |              |                                   |

16: 16: 50 AUG 10, 2006

REF 30.0 dBm

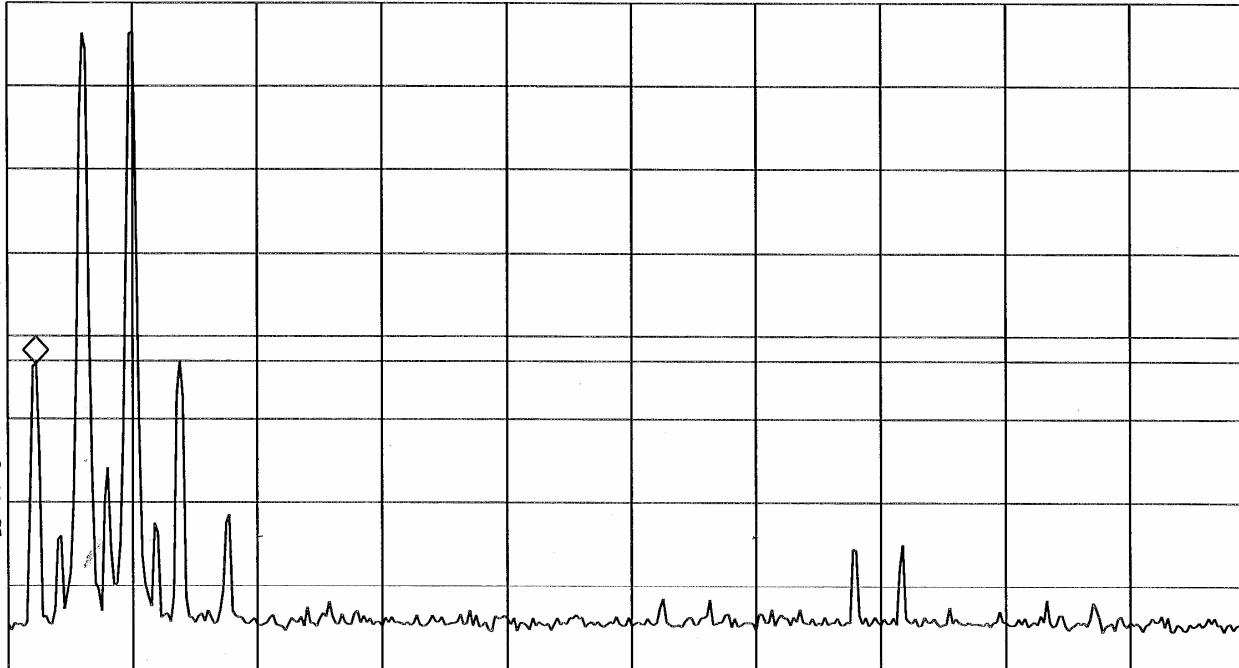
AT 10 dB

MKR 823.59 MHz

-13.32 dBm

PEAK  
LOG  
10  
dB/  
OFFST  
30.0  
dB  
DL  
-13.0  
dBm

VA SB  
SC FC  
CORR



START 823.00 MHz

#RES BW 30 kHz

#VBW 100 kHz

STOP 849.00 MHz

SWP 86.7 msec