

RETLIF TESTING LABORATORIES

TABULAR DATA SHEET

| | | | |
|---------------------|--|------------|------------|
| Test Method: | RF Power Output | | |
| Customer: | Cellular Specialties, Inc. | Job No: | R-4560N-1 |
| Test Sample: | Frequency Programmable Repeater | | |
| Model No: | DSP85-1W-P | Serial No: | n/a |
| Test Specification: | FCC Part 2 Paragraph: 2.1046 | | |
| Operating Mode: | Amplifying input signal | | |
| Technician: | T. Hannemann | Date: | 04/20/2006 |
| Notes: | Uplink Frequency: 1880.0 MHz Downlink Frequency: 1960.0 MHz | | |

| Test Frequency | Power In @ EUT Max input | Power Output | Gain | Power Output | | | | | | |
|----------------|--------------------------|--------------|-------|--------------|--|--|--|--|--|--|
| MHz | dBm | dBm | dB | Watts | | | | | | |
| (Uplink) | | | | | | | | | | |
| 1880.0000 | -51.40 | 27.20 | 78.60 | 0.5 | | | | | | |
| (Downlink) | | | | | | | | | | |
| 1960.0000 | -51.00 | 26.80 | 77.80 | 0.5 | | | | | | |
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RETLIF TESTING LABORATORIES

EMISSIONS DATA SHEET

| | | |
|----------------------------|---|--------------------------|
| Test Method: | Spurious Emissions at the Antenna Terminals 30 MHz to 20.0 GHz | |
| Customer: | Cellular Specialties, Inc. | Job No: R-4560N-1 |
| Test Sample: | Frequency Programmable Repeater | |
| Model No: | DSP85-1W-P | Serial No: n/a |
| Test Specification: | FCC Part 2 Paragraph: 2.1051 | |
| Operating Mode: | Amplifying input signal | |
| Technician: | T. Hannemann | Date: 04/24/2006 |
| Notes: | GSM, TDMA, and CDMA modulations tested, all spurious emissions observed at the same levels. | |

| Uplink Input Signal | Test Frequency | Harmonic Frequencies | Reading | Limit | Downlink Input Signal | Test Frequency | Harmonic Frequencies | Reading | Limit | |
|------------------------|-------------------|-------------------------|---------|-------|--------------------------|-------------------|-------------------------|---------|-------|--|
| dBm | MHz | MHz | dBm | dBm | dBm | MHz | MHz | dBm | dBm | |
| -55.48 | 1850.00 | 1850.00 | 27.20 | | -55.88 | 1930.00 | 1930.00 | 26.80 | | |
| | | 3700.00 | >-60 | -13.0 | | | 3860.00 | >-50 | -13.0 | |
| | | 5550.00 | >-60 | | | | 5790.00 | >-50 | | |
| | | 7400.00 | >-50 | | | | 7720.00 | >-50 | | |
| | | 9250.00 | >-50 | | | | 9650.00 | >-50 | | |
| | | 11100.00 | >-50 | | | | 11580.00 | >-50 | | |
| | | 12950.00 | >-50 | | | | 13510.00 | >-50 | | |
| | | 14800.00 | >-47 | | | | 15440.00 | >-47 | | |
| | | 16650.00 | >-47 | | | | 17370.00 | >-47 | | |
| -55.48 | 1850.00 | 18500.00 | >-47 | -13.0 | -55.88 | 1930.00 | 19300.00 | >-47 | -13.0 | |
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RETLIF TESTING LABORATORIES

EMISSIONS DATA SHEET

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|---------------------|---|------------|------------|--|--|--|--|--|--|
| Test Method: | Spurious Emissions at the Antenna Terminals 30 MHz to 20.0 GHz | | | | | | | | |
| Customer: | Cellular Specialties, Inc. | Job No: | R-4560N-1 | | | | | | |
| Test Sample: | Frequency Programmable Repeater | | | | | | | | |
| Model No: | DSP85-1W-P | Serial No: | n/a | | | | | | |
| Test Specification: | FCC Part 2 Paragraph: 2.1051 | | | | | | | | |
| Operating Mode: | Amplifying input signal | | | | | | | | |
| Technician: | T. Hannemann | Date: | 04/24/2006 | | | | | | |
| Notes: | GSM, TDMA, and CDMA modulations tested, all spurious emissions observed at the same levels. | | | | | | | | |

| Uplink Input Signal | Test Frequency | Harmonic Frequencies | Reading | Limit | Downlink Input Signal | Test Frequency | Harmonic Frequencies | Reading | Limit |
|---------------------|----------------|----------------------|---------|-------|-----------------------|----------------|----------------------|---------|-------|
| dBm | MHz | MHz | dBm | dBm | dBm | MHz | MHz | dBm | dBm |
| -55.48 | 1880.00 | 1880.00 | 27.20 | | -55.88 | 1960.00 | 1960.00 | 26.80 | |
| | | 3760.00 | >-60 | -13.0 | | | 3920.00 | >-50 | -13.0 |
| | | 5640.00 | >-60 | | | | 5880.00 | >-50 | |
| | | 7520.00 | >-50 | | | | 7840.00 | >-50 | |
| | | 9400.00 | >-50 | | | | 9800.00 | >-50 | |
| | | 11280.00 | >-50 | | | | 11760.00 | >-50 | |
| | | 13160.00 | >-50 | | | | 13720.00 | >-50 | |
| | | 15040.00 | >-47 | | | | 15680.00 | >-47 | |
| | | 16920.00 | >-47 | | | | 17640.00 | >-47 | |
| -55.48 | 1880.00 | 1880.00 | >-47 | -13.0 | -55.88 | 1960.00 | 1960.00 | >-47 | -13.0 |
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RETLIF TESTING LABORATORIES

EMISSIONS DATA SHEET

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|---------------------|---|------------|------------|
| Test Method: | Spurious Emissions at the Antenna Terminals 30 MHz to 20.0 GHz | | |
| Customer: | Cellular Specialties, Inc. | Job No: | R-4560N-1 |
| Test Sample: | Frequency Programmable Repeater | | |
| Model No: | DSP85-1W-P | Serial No: | n/a |
| Test Specification: | FCC Part 2 Paragraph: 2.1051 | | |
| Operating Mode: | Amplifying input signal | | |
| Technician: | T. Hannemann | Date: | 04/24/2006 |
| Notes: | GSM, TDMA, and CDMA modulations tested, all spurious emissions observed at the same levels. | | |

| Uplink Input Signal dBm | Test Frequency MHz | Harmonic Frequencies MHz | Reading dBm | Limit dBm | Downlink Input Signal dBm | Test Frequency MHz | Harmonic Frequencies MHz | Reading dBm | Limit dBm |
|-------------------------------|--------------------------|--------------------------------|----------------|--------------|---------------------------------|--------------------------|--------------------------------|----------------|--------------|
| -55.48 | 1910.00 | 1910.00 | 27.20 | | -55.88 | 1990.00 | 1990.00 | 26.80 | |
| | | 3820.00 | >-60 | -13.0 | | | 3980.00 | >-50 | -13.0 |
| | | 5730.00 | >-60 | | | | 5970.00 | >-50 | |
| | | 7640.00 | >-50 | | | | 7960.00 | >-50 | |
| | | 9550.00 | >-50 | | | | 9950.00 | >-50 | |
| | | 11460.00 | >-50 | | | | 11940.00 | >-50 | |
| | | 13370.00 | >-50 | | | | 13930.00 | >-50 | |
| | | 15280.00 | >-47 | | | | 15920.00 | >-47 | |
| | | 17190.00 | >-47 | | | | 17910.00 | >-47 | |
| -55.48 | 1910.00 | 19100.00 | >-47 | -13.0 | -55.88 | 1990.00 | 19900.00 | >-47 | -13.0 |
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RETLIF TESTING LABORATORIES

EMISSIONS DATA SHEET

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|---------------------|---|------------|------------|
| Test Method: | Spurious Radiated Emissions (ERP) 30 MHz to 20.0 GHz | | |
| Customer: | Cellular Specialties, Inc. | Job No: | R-4560N-1 |
| Test Sample: | Frequency Programmable Repeater | | |
| Model No: | DSP85-1W-P | Serial No: | n/a |
| Test Specification: | FCC Part 2.1053 Part 24 Paragraph: n/a | | |
| Operating Mode: | Amplifying input signal | | |
| Technician: | T. Hannemann | Date: | 04/20/2006 |
| Notes: | Uplink Frequency Range: 1850 - 1910 MHz Tested at 1850, 1880 and 1910 MHz Peak Detector | | |

| Test Frequency | Antenna Position | Reference Reading | Signal Gen Level | Reference Ant Gain | | | | Corrected Reading | Spurious Limit |
|----------------|------------------|-------------------|------------------|--------------------|--|--|--|-------------------|----------------|
| MHz | (H/V) - Height | dBuV | dBm | dBI | | | | dBm | dBm |
| 30.00 | - | - | - | - | | | | - | -13.00 |
| | - | - | - | - | | | | - | |
| | - | - | - | - | | | | - | |
| | - | - | - | - | | | | - | |
| | - | - | - | - | | | | - | |
| | - | - | - | - | | | | - | |
| | - | - | - | - | | | | - | |
| | - | - | - | - | | | | - | |
| | - | - | - | - | | | | - | |
| | - | - | - | - | | | | - | |
| | - | - | - | - | | | | - | |
| | - | - | - | - | | | | - | |
| | - | - | - | - | | | | - | |
| | - | - | - | - | | | | - | |
| | - | - | - | - | | | | - | |
| | - | - | - | - | | | | - | |
| | - | - | - | - | | | | - | |
| | - | - | - | - | | | | - | |
| | - | - | - | - | | | | - | |
| | - | - | - | - | | | | - | |
| 20000.00 | - | - | - | - | | | | | -13.00 |
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No EUT emissions within 10 dB of the specified limit were observed at any test distance throughout the given frequency spectrum.

RETLIF TESTING LABORATORIES

EMISSIONS DATA SHEET

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|---------------------|--|------------|------------|
| Test Method: | Spurious Radiated Emissions (ERP) 30 MHz to 20.0 GHz | | |
| Customer: | Cellular Specialties, Inc. | Job No: | R-4560N-1 |
| Test Sample: | Frequency Programmable Repeater | | |
| Model No: | DSP85-1W-P | Serial No: | n/a |
| Test Specification: | FCC Part 2.1053 Part 24 Paragraph: n/a | | |
| Operating Mode: | Amplifying input signal | | |
| Technician: | T. Hannemann | Date: | 04/20/2006 |
| Notes: | Downlink Frequency Range: 1930 - 1990 MHz Tested at 1930, 1960, and 1990 MHz Peak Detector | | |

| Test Frequency | Antenna Position | Reference Reading | Signal Gen Level | Reference Ant Gain | | | | Corrected Reading | Spurious Limit |
|----------------|------------------|-------------------|------------------|--------------------|--|--|--|-------------------|----------------|
| MHz | (H/V) - Height | dBuV | dBm | dBI | | | | dBm | dBm |
| 30.00 | - | - | - | - | | | | - | -13.00 |
| | - | - | - | - | | | | - | |
| | - | - | - | - | | | | - | |
| | - | - | - | - | | | | - | |
| | - | - | - | - | | | | - | |
| | - | - | - | - | | | | - | |
| | - | - | - | - | | | | - | |
| | - | - | - | - | | | | - | |
| | - | - | - | - | | | | - | |
| | - | - | - | - | | | | - | |
| | - | - | - | - | | | | - | |
| | - | - | - | - | | | | - | |
| | - | - | - | - | | | | - | |
| | - | - | - | - | | | | - | |
| | - | - | - | - | | | | - | |
| | - | - | - | - | | | | - | |
| | - | - | - | - | | | | - | |
| | - | - | - | - | | | | - | |
| | - | - | - | - | | | | - | |
| 20000.00 | - | - | - | - | | | | | -13.00 |

No EUT emissions within 10 dB of the specified limit were observed at any test distance throughout the given frequency spectrum.

RETLIF TESTING LABORATORIES

EMISSIONS DATA SHEET

| | | |
|----------------------------|---|--------------------------|
| Test Method: | Frequency Stability | |
| Customer: | Cellular Specialties, Inc. | Job No: R-4560N-1 |
| Test Sample: | Frequency Programmable Repeater | |
| Model No: | DSP85-1W-P | Serial No: n/a |
| Test Specification: | FCC Part 2 Paragraph: 2.1055 | |
| Operating Mode: | Amplifying input signal | |
| Technician: | T. Hannemann | Date: 4/24/2006 |
| Notes: | Uplink Frequency 1880.0 MHz Nominal Voltage = 115 VAC Downlink Frequency 1960.0 MHz | |

| Temp | Test Frequency | Input Power | Output Power | Frequency @ 97.75 VAC | Frequency @ 103.50 VAC | Frequency @ 109.25 VAC | Frequency @ 115 VAC | Frequency @ 120.75 VAC | Frequency @ 126.50 VAC | Frequency @ 132.25 VAC |
|------|----------------|-------------|--------------|-----------------------|------------------------|------------------------|---------------------|------------------------|------------------------|------------------------|
| C | GHz | dBm | dBm | GHz | GHz | GHz | GHz | GHz | GHz | GHz |
| | (Downlink) | | | | | | | | | |
| -30 | 1.960 | -55.88 | 26.82 | 1.9599988 | 1.9599988 | 1.9599988 | 1.9599988 | 1.9599988 | 1.9599988 | 1.9599900 |
| -20 | | | | 1.9599988 | 1.9599988 | 1.9599988 | 1.9599988 | 1.9599988 | 1.9599988 | 1.9599900 |
| -10 | | | | 1.9599975 | 1.9599975 | 1.9599975 | 1.9599975 | 1.9599975 | 1.9599975 | 1.9599900 |
| 0 | | | | 1.9599970 | 1.9599970 | 1.9599970 | 1.9599970 | 1.9599970 | 1.9599970 | 1.9599900 |
| 10 | | | | 1.9599970 | 1.9599970 | 1.9599970 | 1.9599970 | 1.9599970 | 1.9599970 | 1.9599900 |
| 20 | | | | 1.9599970 | 1.9599970 | 1.9599970 | 1.9599970 | 1.9599970 | 1.9599970 | 1.9599900 |
| 30 | | | | 1.9599970 | 1.9599970 | 1.9599970 | 1.9599970 | 1.9599970 | 1.9599970 | 1.9599900 |
| 40 | | | | 1.9599970 | 1.9599970 | 1.9599970 | 1.9599970 | 1.9599970 | 1.9599970 | 1.9599900 |
| 50 | 1.960 | -55.88 | 26.82 | 1.9599970 | 1.9599970 | 1.9599970 | 1.9599970 | 1.9599970 | 1.9599970 | 1.9599900 |
| | (Uplink) | | | | | | | | | |
| -30 | 1.880 | -55.48 | 27.22 | 1.8800651 | 1.8800651 | 1.8800651 | 1.8800651 | 1.8800651 | 1.8800651 | 1.8800000 |
| -20 | | | | 1.8800651 | 1.8800651 | 1.8800651 | 1.8800651 | 1.8800651 | 1.8800651 | 1.8800000 |
| -10 | | | | 1.8800651 | 1.8800651 | 1.8800651 | 1.8800651 | 1.8800651 | 1.8800651 | 1.8800000 |
| 0 | | | | 1.8800651 | 1.8800651 | 1.8800651 | 1.8800651 | 1.8800651 | 1.8800651 | 1.8800000 |
| 10 | | | | 1.8800651 | 1.8800651 | 1.8800651 | 1.8800651 | 1.8800651 | 1.8800651 | 1.8800000 |
| 20 | | | | 1.8800651 | 1.8800651 | 1.8800651 | 1.8800651 | 1.8800651 | 1.8800651 | 1.8800000 |
| 30 | | | | 1.8800651 | 1.8800651 | 1.8800651 | 1.8800651 | 1.8800651 | 1.8800651 | 1.8800000 |
| 40 | | | | 1.8800651 | 1.8800651 | 1.8800651 | 1.8800651 | 1.8800651 | 1.8800651 | 1.8800000 |
| 50 | 1.880 | -55.48 | 27.22 | 1.8800651 | 1.8800651 | 1.8800651 | 1.8800651 | 1.8800651 | 1.8800651 | 1.8800000 |