

RETLIF TESTING LABORATORIES

TABULAR DATA SHEET

Test Method:

RF Power Output

Customer:

Cellular Specialties, Inc.

Job No:

R-4014N

Test Sample:

Bidirectional Amplifier

Model No:

610smr

Serial No:

n/a

Test Specification:

FCC Part 2

Paragraph: 2.1046

Operating Mode:

Amplifying input signal

Technician:

T. Hannemann

Date:

9/3/02

Notes:

Uplink Frequency: 813.5 MHz

Downlink Frequency: 858.5 MHz

[illegible]

16: 42: 40 SEP 03, 2002

hp

REF 30.0 dBm

AT 20 dB

PEAK

LOG

10

dB/

OFFST

20.0

dB

DL

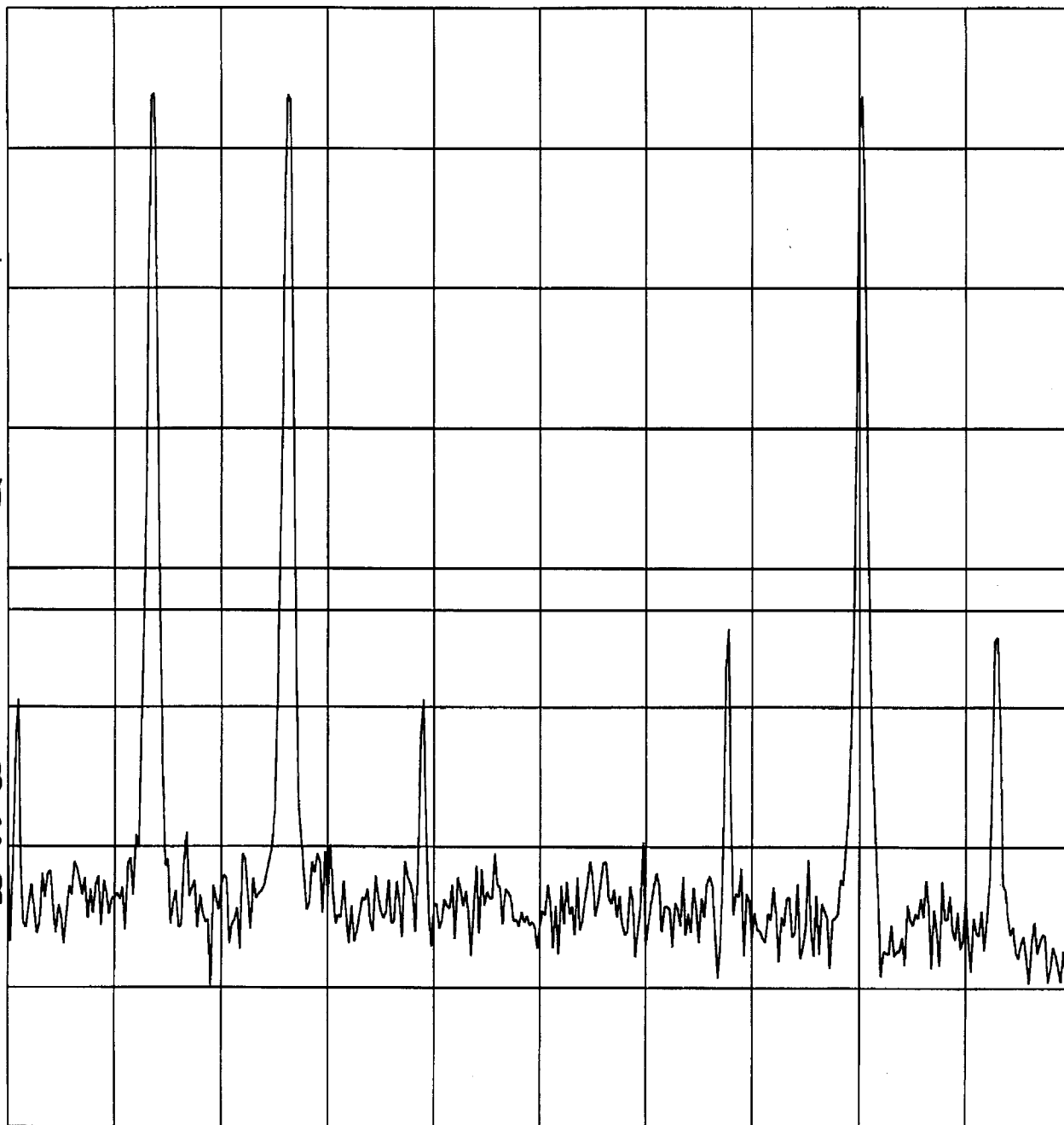
-13.0

dBm

WA SB

SC FC

CORR



START 806.00 MHz

STOP 821.00 MHz

#RES BW 30 kHz

#VBW 1 MHz

SWP 50.0 msec

Customer: Cellular Specialties, Inc.
Test Sample: Bidirectional Amplifier
Model No: 610smr
Test Method: Intermodulation Characteristics, FCC Part 2, para 2.1047
Notes: Uplink Frequency Range: 806 - 821 MHz

Date: 9/3/02

Tech: T. Hannemann

Sheet 1 of 2



Retlif Testing Laboratories

Report No R-4014N

16:38:48 SEP 03, 2002

hp

REF 30.0 dBm

AT 20 dB

PEAK

LOG

10

dB/

OFFST

20.0

dB

DL

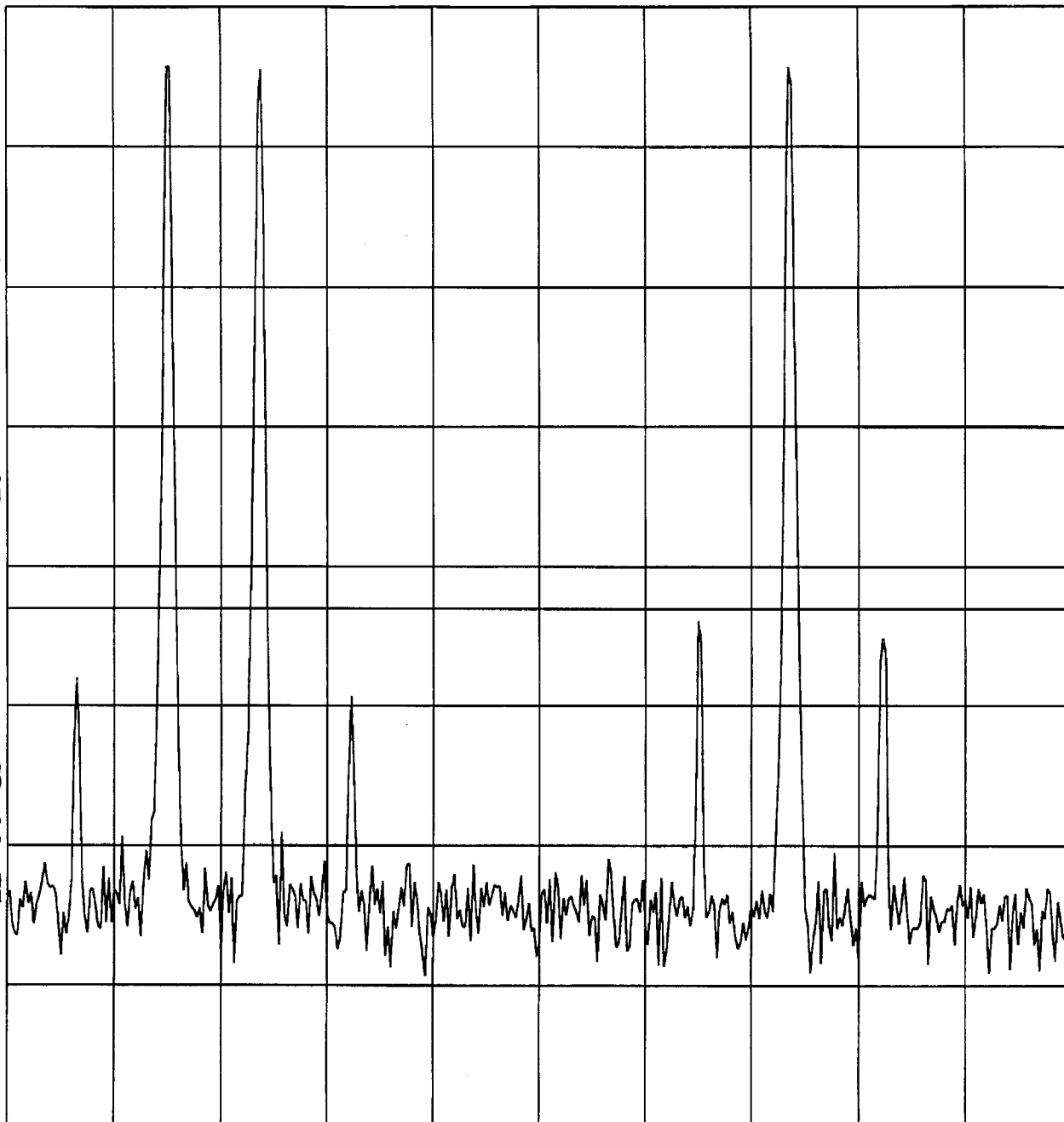
-13.0

dBm

WA SB

SC FC

CORR



START 851.00 MHz

STOP 866.00 MHz

#RES BW 30 kHz

#VBW 1 MHz

SWP 50.0 msec

Customer:

Cellular Specialties, Inc.

Test Sample:

Bidirectional Amplifier

Model No:

610smr

Test Method:

Intermodulation Characteristics, FCC Part 2, para 2.1047

Notes:

Downlink Frequency Range: 851 - 866 MHz



Retlif Testing Laboratories

Report No

R-4014N

Date: 9/3/02

Tech: T. Hannemann

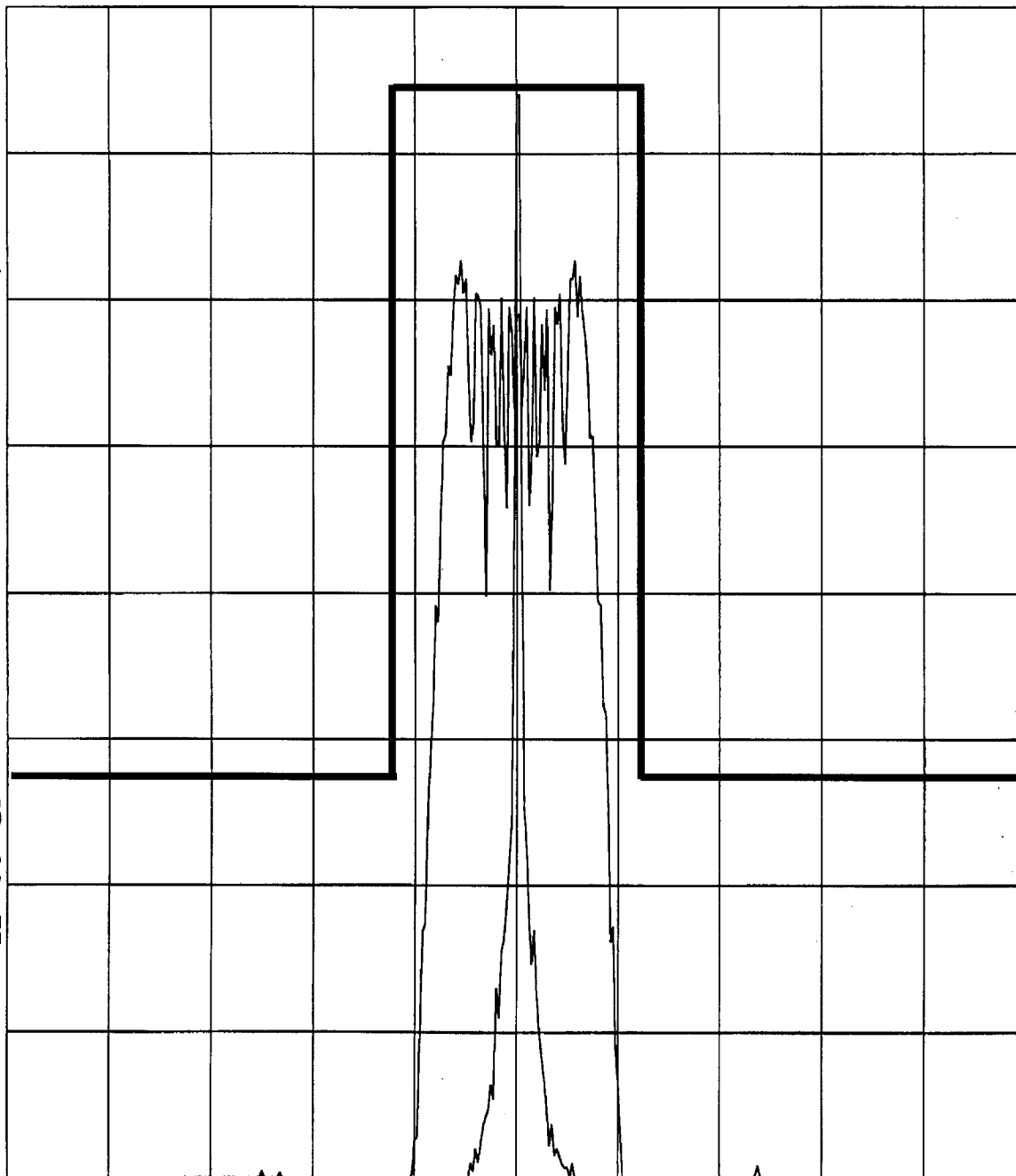
Sheet 2 of 2

16:07:57 SEP 03, 2002
hp

REF 40.0 dBm AT 20 dB

PEAK
LOG
10
dB/
OFFST
30.0
dB

VA VB
SC FC
CORR



CENTER 813.5000 MHz

SPAN 250.0 kHz

#RES BW 300 Hz

VBW 1 kHz

#SWP 14.0 sec

Customer: Cellular Specialties, Inc.
Test Sample: Bidirectional Amplifier
Model No: 610smr
Test Method: Occupied Bandwidth, FCC Part 2, para 2.1049
Notes: Uplink Frequency 813.5 MHz
Modulation: TDMA

Date: 9/3/02

Tech: T. Hannemann

Sheet 1 of 2



Retlif Testing Laboratories

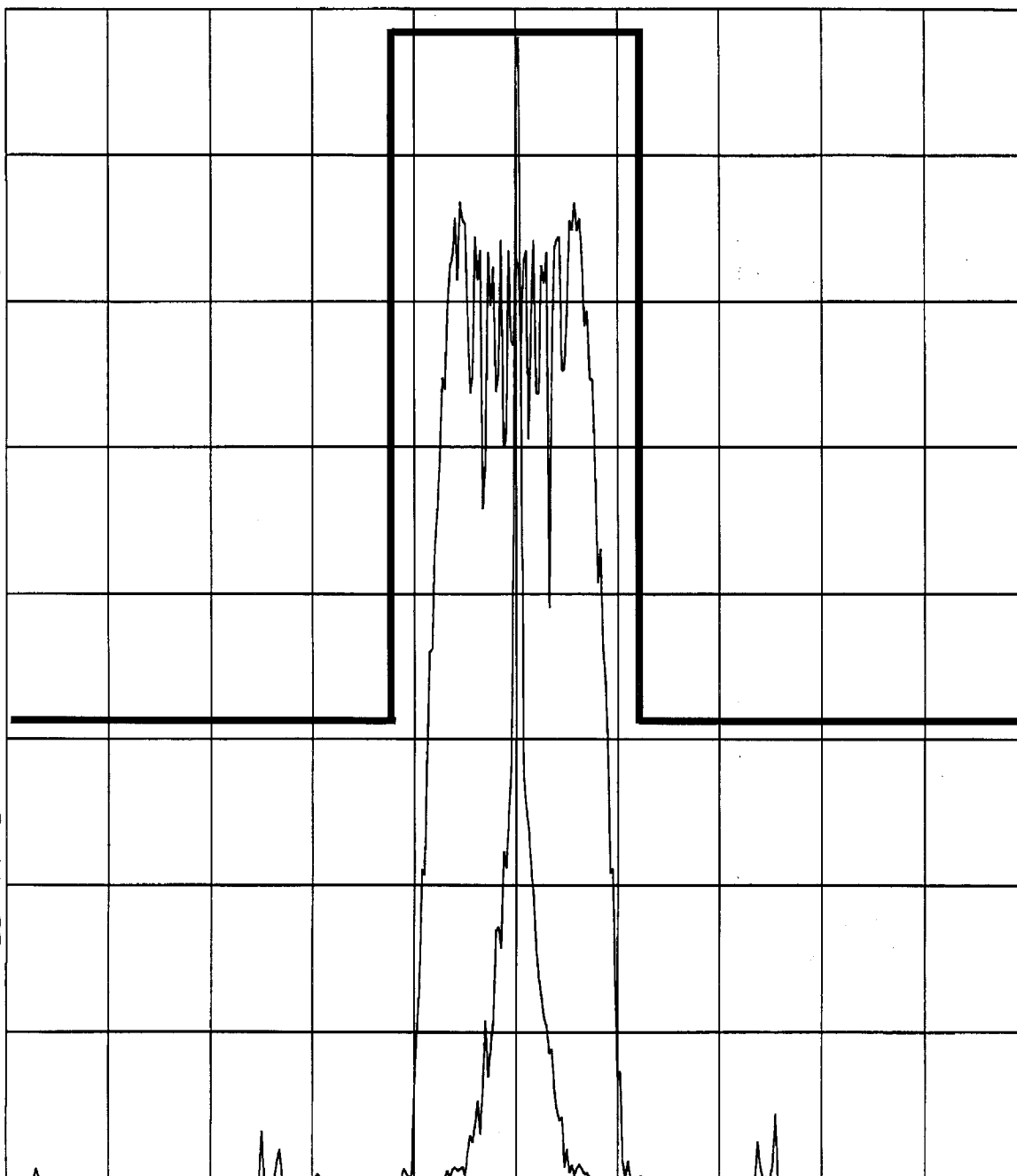
Report No R-4014N

16:04:30 SEP 03, 2002
hp

REF 40.0 dBm AT 20 dB

PEAK
LOG
10
dB/
OFFST
30.0
dB

VA VB
SC FC
CORR



CENTER 858.5000 MHz

SPAN 250.0 kHz

#RES BW 300 Hz

VBW 1 kHz

#SWP 14.0 sec

Customer: Cellular Specialties, Inc.
Test Sample: Bidirectional Amplifier
Model No: 610smr
Test Method: Occupied Bandwidth, FCC Part 2, para 2.1049
Notes: Downlink Frequency 858.5 MHz
Modulation: TDMA

Date: 9/3/02

Tech: T. Hannemann

Sheet 2 of 2



Retlif Testing Laboratories

Report No R-4014N

EMISSIONS DATA SHEET

Test Method:	Spurious Emissions at the Antenna Terminals 30 MHz to 8.66 GHz		
Customer:	Cellular Specialties, Inc.	Job No:	R-4014N
Test Sample:	Bidirectional Amplifier		
Model No:	610smr	Serial No:	n/a
Test Specification:	FCC Part 2 Paragraph: 2.1051		
Operating Mode:	Amplifying input signal		
Technician:	T. Hannemann	Date:	9/3/02
Notes:	Uplink Frequency 813.5 MHz Downlink Frequency 858.5 MHz		

[illegible]

RETLIF TESTING LABORATORIES

EMISSIONS DATA SHEET

Test Method:	Spurious Radiated Emissions (ERP) 30 MHz to 9 GHz		
Customer:	Cellular Specialties, Inc.	Job No:	R-4014N
Test Sample:	Bidirectional Amplifier		
Model No:	610smr	Serial No:	n/a
Test Specification:	FCC Part 2.1053/90.209 Paragraph: n/a		
Operating Mode:	Amplifying input signal		
Technician:	T. Hannemann	Date:	9/19/02
Notes:	Uplink Frequency Range: 806 - 821 MHz Peak Detector Tested at 813.5 MHz		

[illegible]

EUT emissions observed throughout the given frequency spectrum were recorded & evaluated, Emission levels closest to the limit are listed on this data sheet.

EMISSIONS DATA SHEET

Test Method:	Spurious Radiated Emissions (ERP) 30 MHz to 9.0 GHz		
Customer:	Cellular Specialties, Inc.	Job No:	R-4014N
Test Sample:	Bidirectional Amplifier		
Model No:	610smr	Serial No:	n/a
Test Specification:	FCC Part 2.1053/90.209 Paragraph: n/a		
Operating Mode:	Amplifying input signal		
Technician:	T. Hannemann	Date:	9/19/02
Notes:	Downlink Frequency Range: 851 - 866 MHz Tested at 858.5 MHz Peak Detector		

[illegible]

EUT emissions observed throughout the given frequency spectrum were recorded & evaluated, Emission levels closest to the limit are listed on this data sheet.

EMISSIONS DATA SHEET

Frequency Stability

Cellular Specialties, Inc.

Job No:

R-4014N

Bidirectional Amplifier

610smr

Serial No:

n/a

FCC Part 2

Paragraph: 2.1055

Amplifying input signal

T. Hannemann

Date:

9/4/02

Uplink Frequency 813.5 MHz

Nominal Voltage = 115 VAC

Downlink Frequency 858.5 MHz

[illegible]