

16:42:40 SEP 03, 2002

hp

REF 30.0 dBm

AT 20 dB

PEAK

LOG

10

dB/

OFFST

20.0

dB

DL

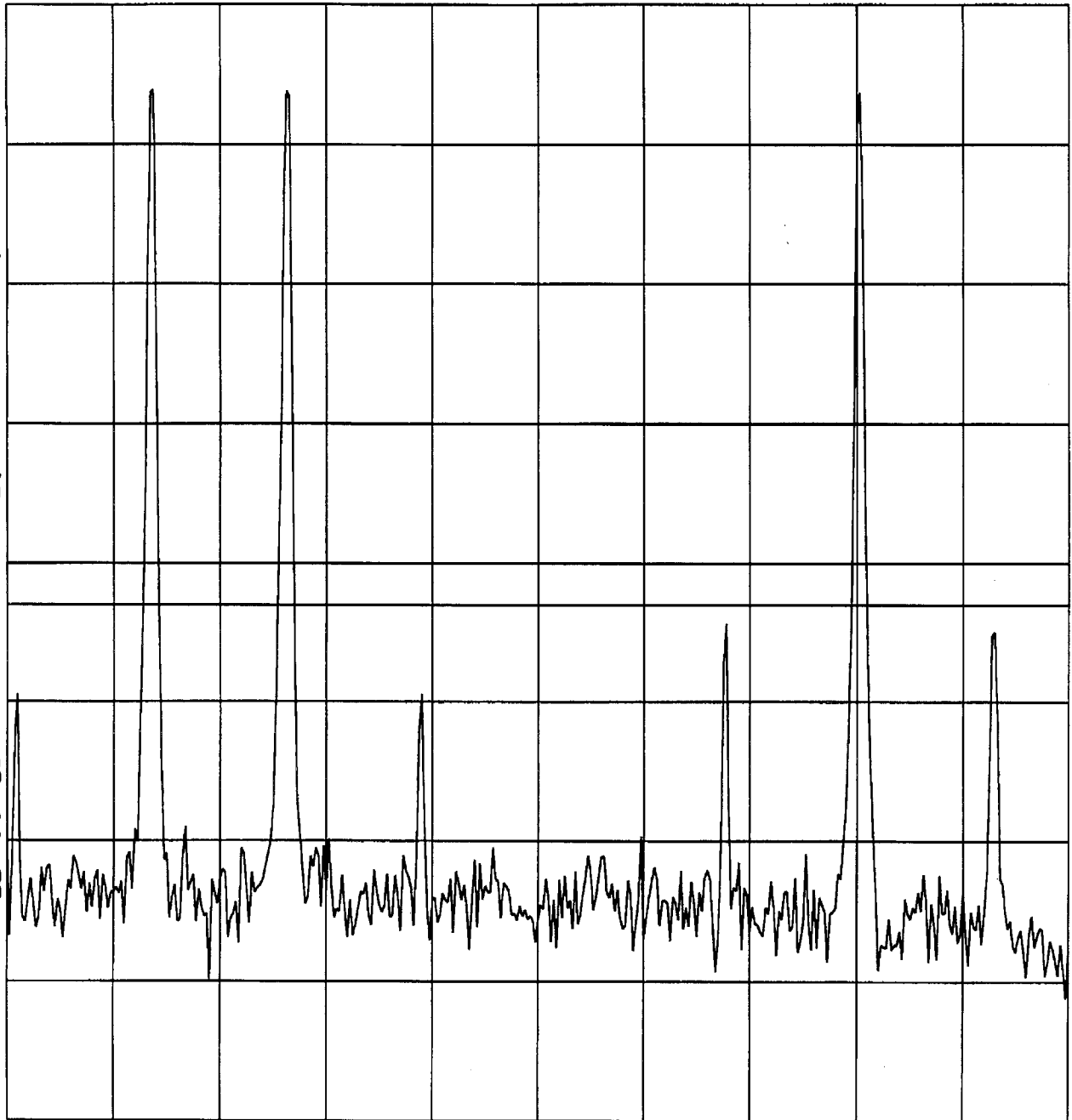
-13.0

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

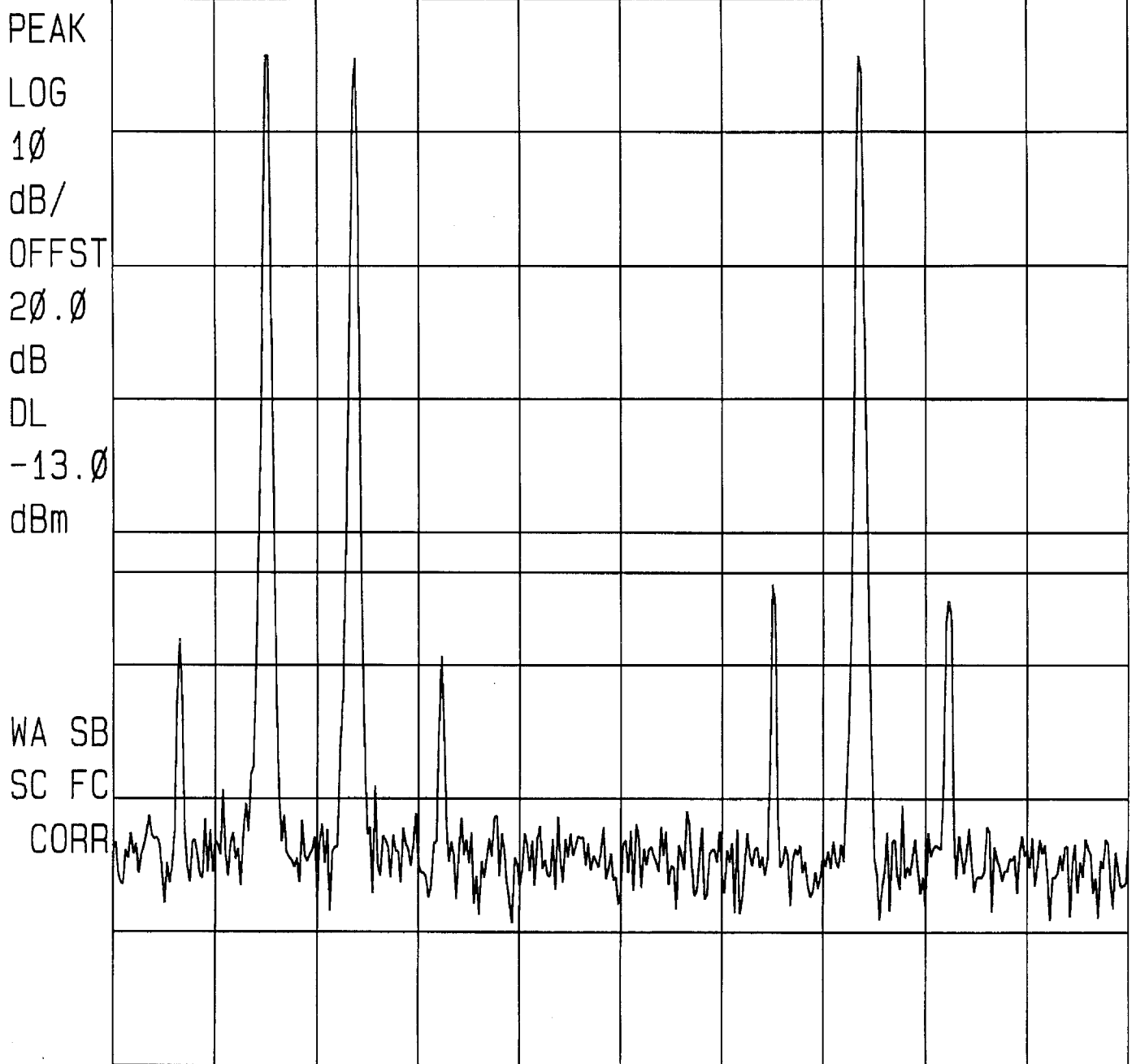


Retlif Testing Laboratories

Report No R-4014N

16:38:48 SEP 03, 2002
hp

REF 30.0 dBm AT 20 dB



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

Date: 9/3/02 Tech: T. Hannemann Sheet 2 of 2



Retlif Testing Laboratories
Report No R-4014N

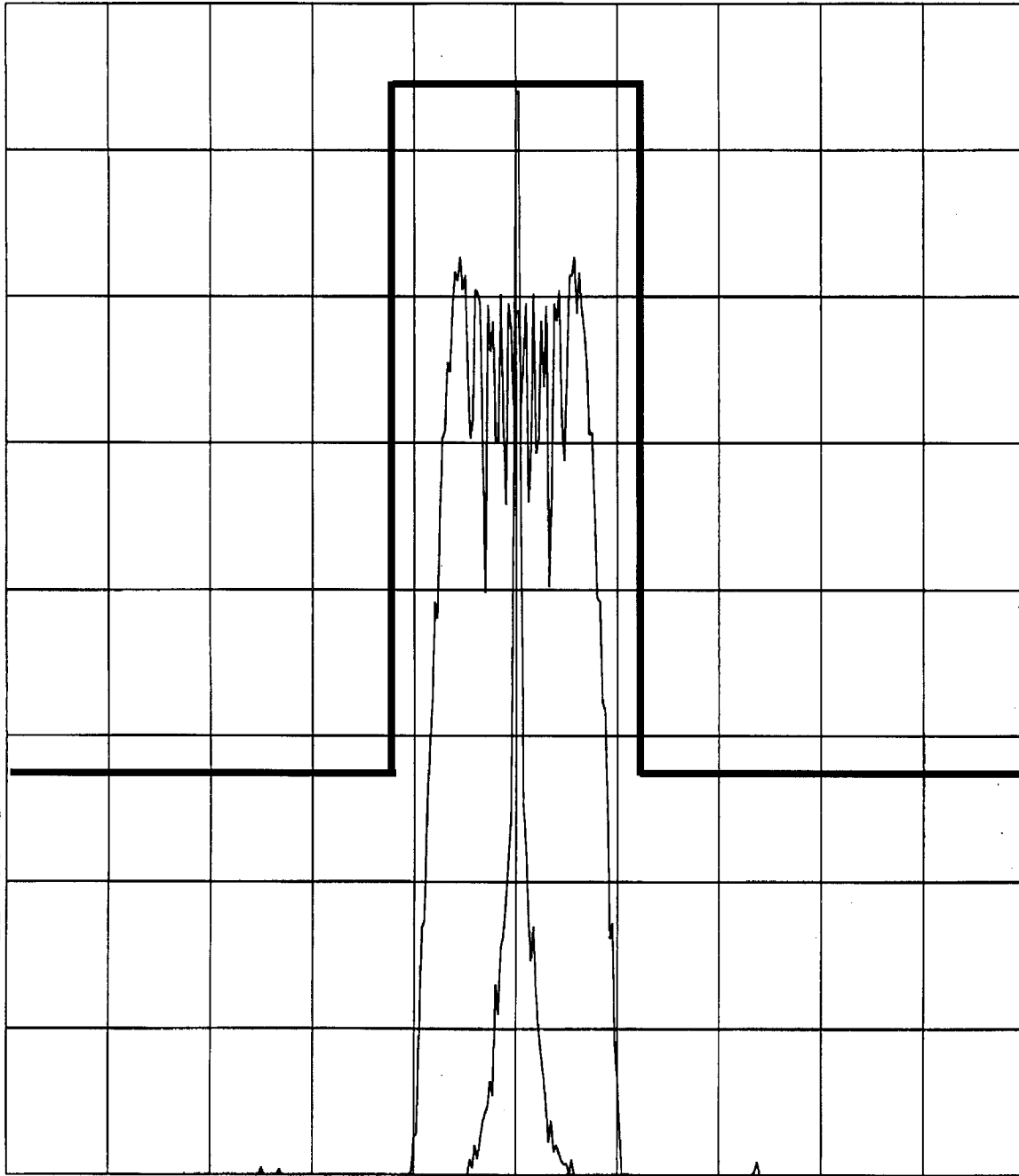
16:07:57 SEP 03, 2002

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

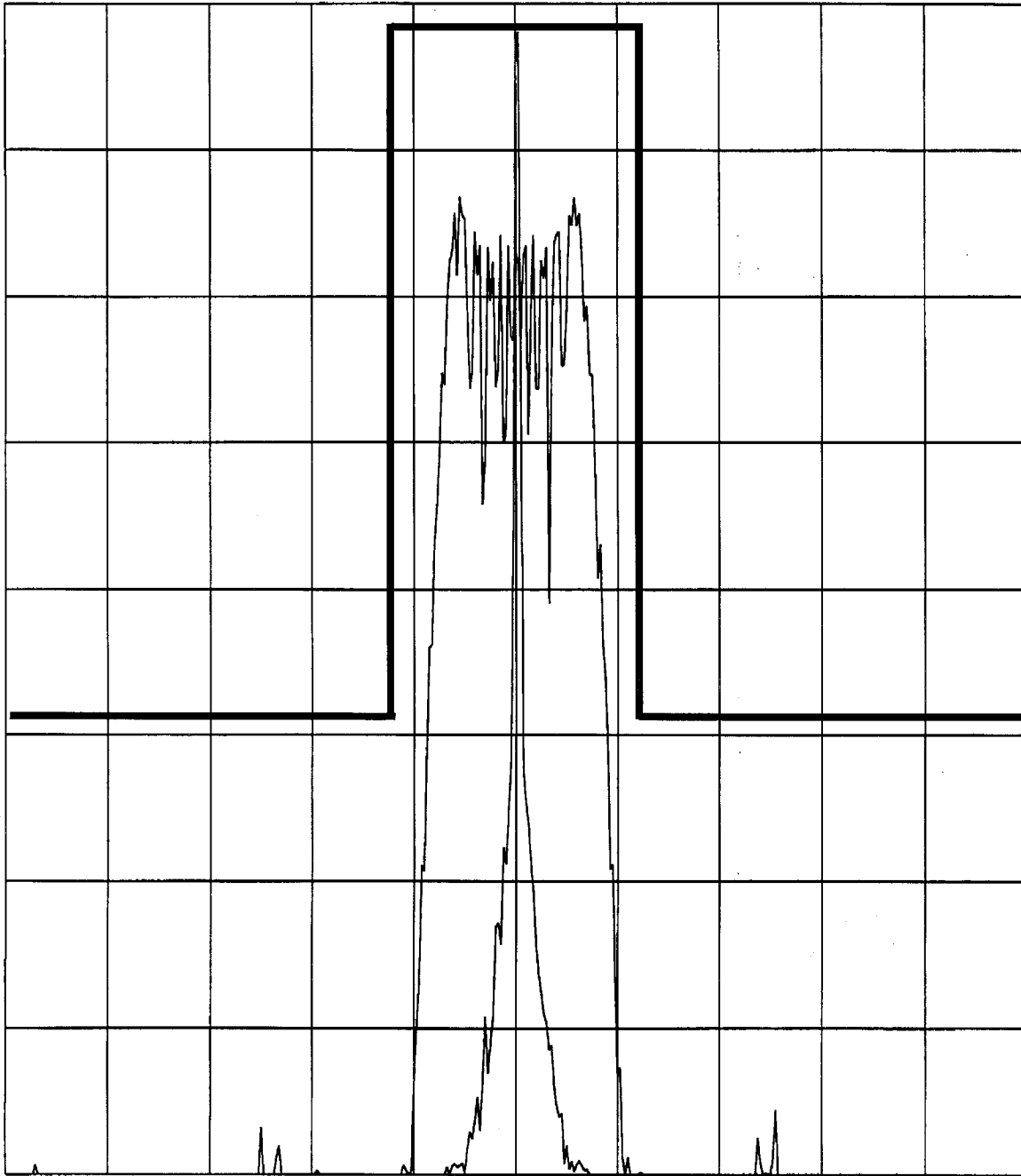
Report No R-4014N

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

RETLIF TESTING LABORATORIES

EMISSIONS DATA SHEET

Test Method:	Frequency Stability										
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: 2.1055										
Operating Mode:	Amplifying input signal										
Technician:	T. Hannemann					Date:	9/4/02				
Notes:	Uplink Frequency 813.5 MHz Nominal Voltage = 115 VAC Downlink Frequency 858.5 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	MHz	dBm	dBm	MHz	MHz	MHz	MHz	MHz	MHz	MHz
	(Uplink)									
-30	813.5	-45.69	34.22	813.500	813.500	813.500	813.500	813.500	813.500	813.500
-20				813.500	813.500	813.500	813.500	813.500	813.500	813.500
-10				813.500	813.500	813.500	813.500	813.500	813.500	813.500
0				813.500	813.500	813.500	813.500	813.500	813.500	813.500
10				813.500	813.500	813.500	813.500	813.500	813.500	813.500
20				813.500	813.500	813.500	813.500	813.500	813.500	813.500
30				813.500	813.500	813.500	813.500	813.500	813.500	813.500
40				813.500	813.500	813.500	813.500	813.500	813.500	813.500
50	813.5	-45.69	34.22	813.500	813.500	813.500	813.500	813.500	813.500	813.500
	(Downlink)									
-30	858.5	-39.86	39.18	858.500	858.500	858.500	858.500	858.500	858.500	858.500
-20				858.500	858.500	858.500	858.500	858.500	858.500	858.500
-10				858.500	858.500	858.500	858.500	858.500	858.500	858.500
0				858.500	858.500	858.500	858.500	858.500	858.500	858.500
10				858.500	858.500	858.500	858.500	858.500	858.500	858.500
20				858.500	858.500	858.500	858.500	858.500	858.500	858.500
30				858.500	858.500	858.500	858.500	858.500	858.500	858.500
40				858.500	858.500	858.500	858.500	858.500	858.500	858.500
50	858.5	-39.86	39.18	858.500	858.500	858.500	858.500	858.500	858.500	858.500