

**PCTEST Engineering Lab., Inc.**

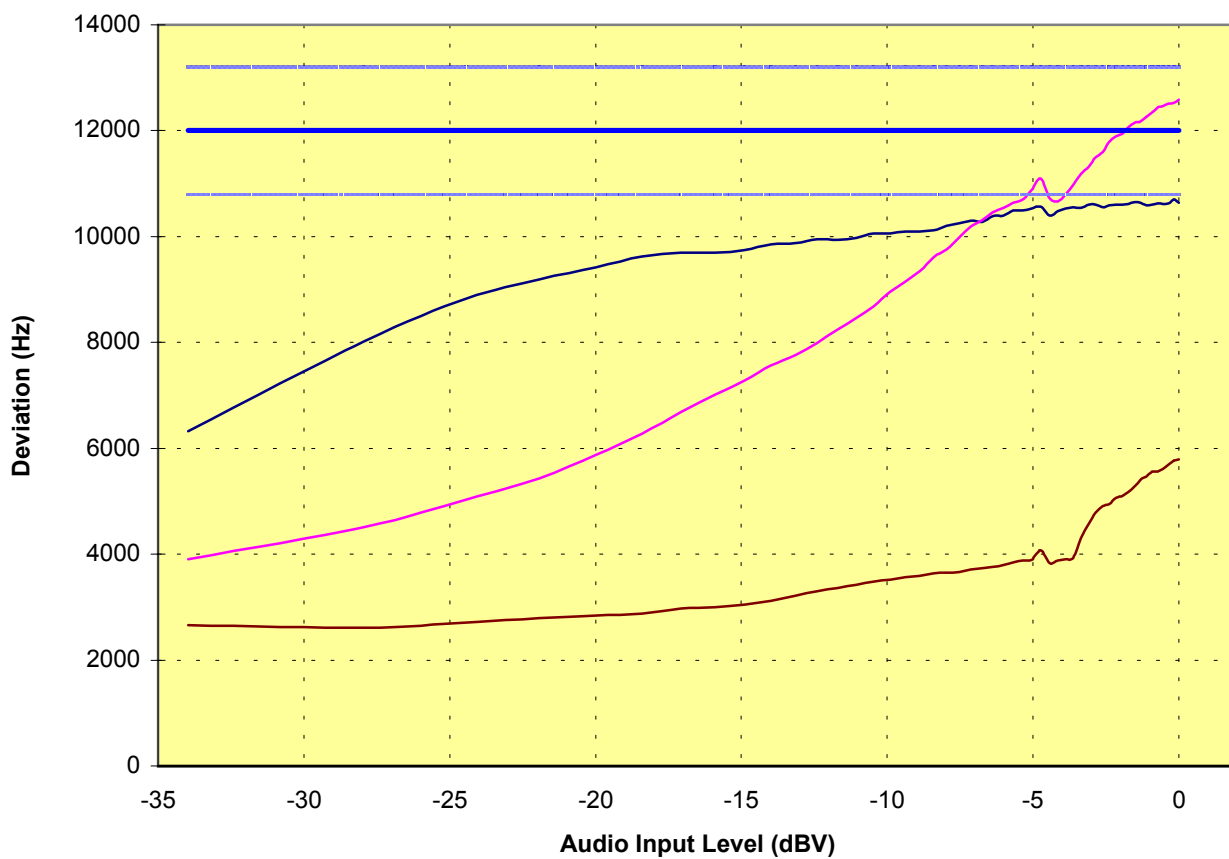
**SUBJECT:** Modulation Characteristics  
FCC Part 22

Test Report No.: 22.210423240.PNN  
Test Date: 05. 30. 2001

**EUT:** CDMA Wireless Modem PC Card (PCMCIA)  
**Model:** 1CD-5000-3  
**FCC ID:** PNN-CELL5000-3

**REFERENCE:** 1 kHz = 0 dB

## Modulation Limiting



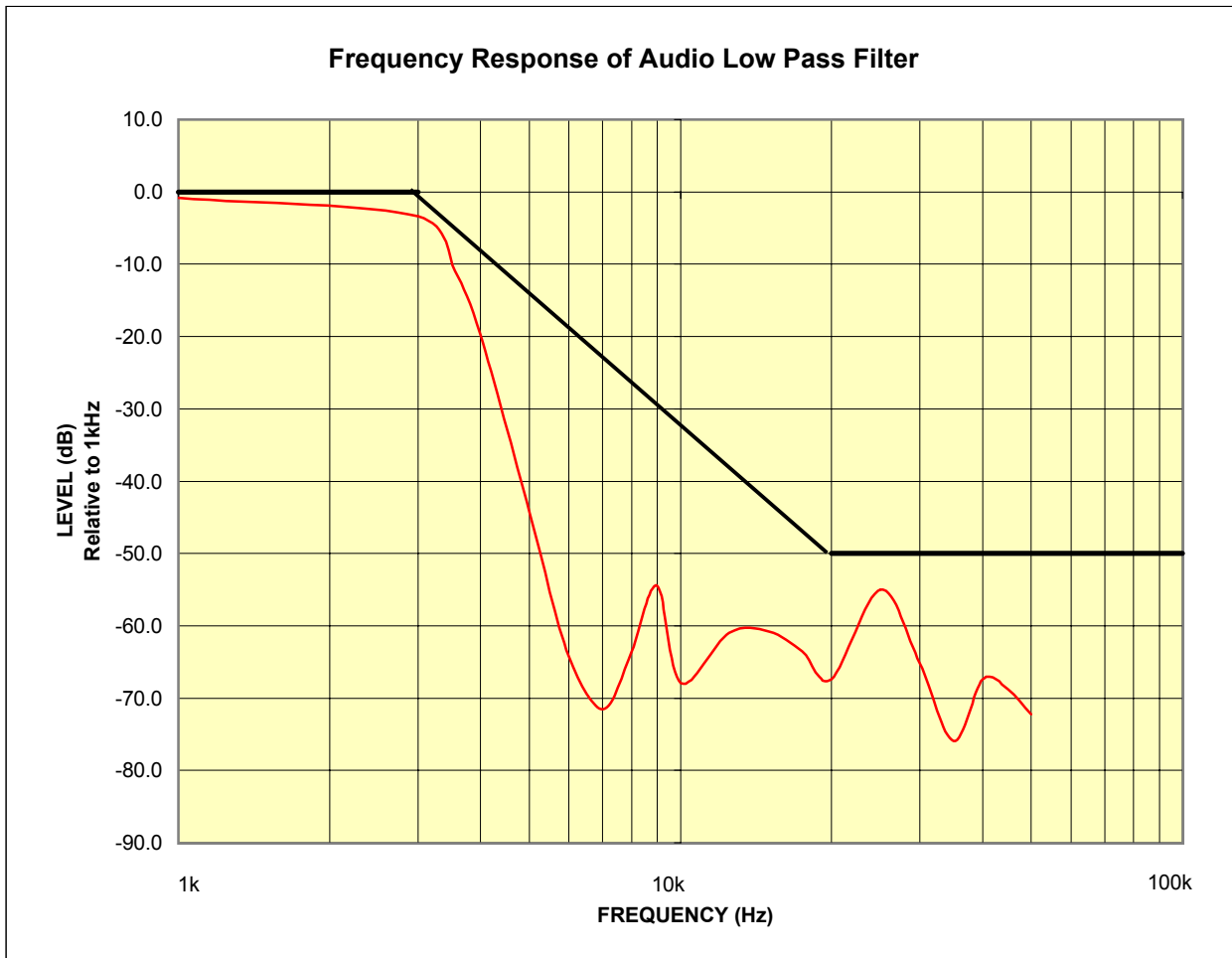
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**SUBJECT:** Modulation Characteristics  
FCC Part 22

Test Report No.: 22.210423240.PNN  
Test Date: 05. 30. 2001

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**Model:** 1CD-5000-3  
**FCC ID:** PNN-CELL5000-3

**REFERENCE:** 1 kHz = 0 dB



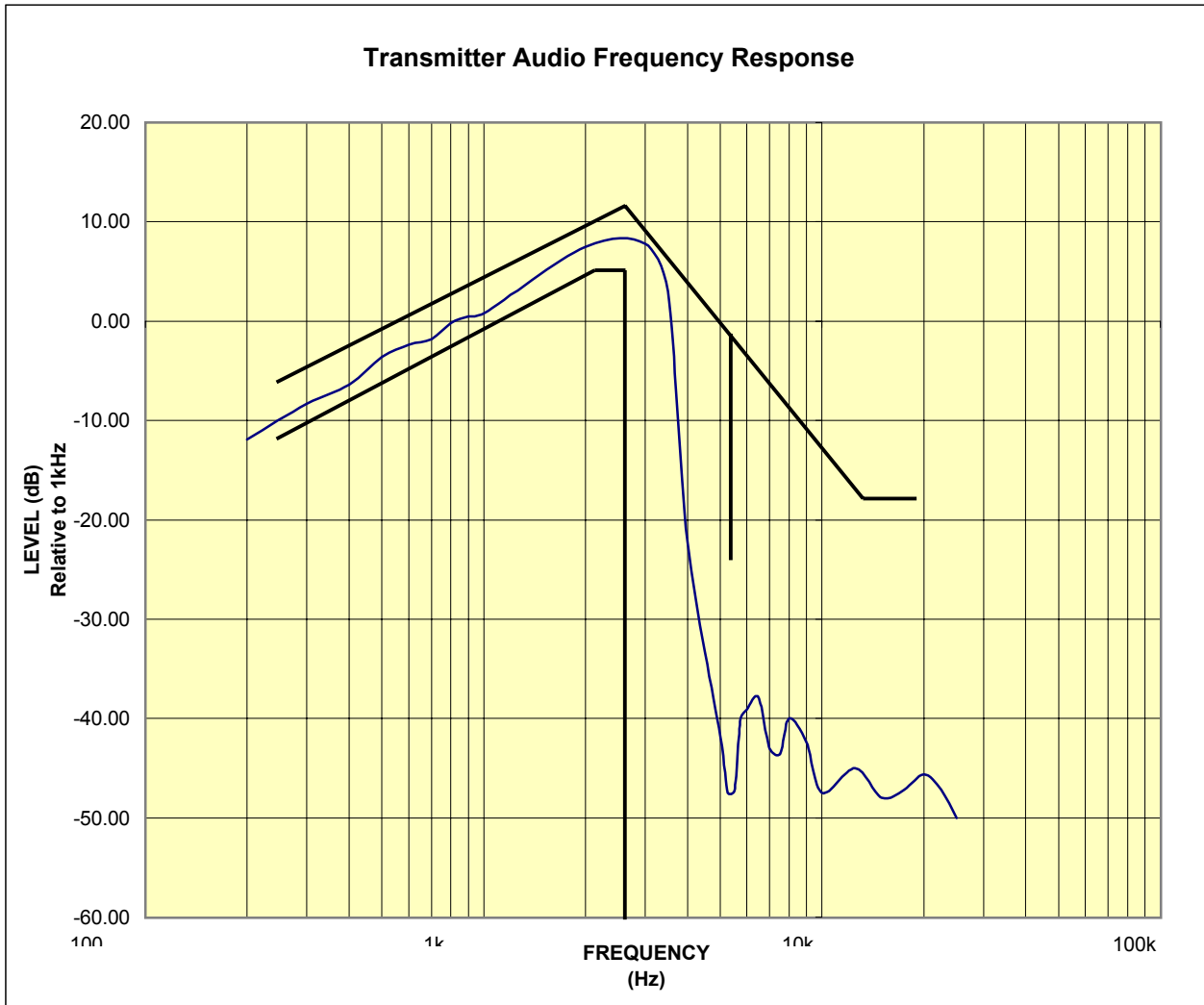
**PCTEST Engineering Lab., Inc.**

**SUBJECT:** Modulation Characteristics  
FCC Part 22

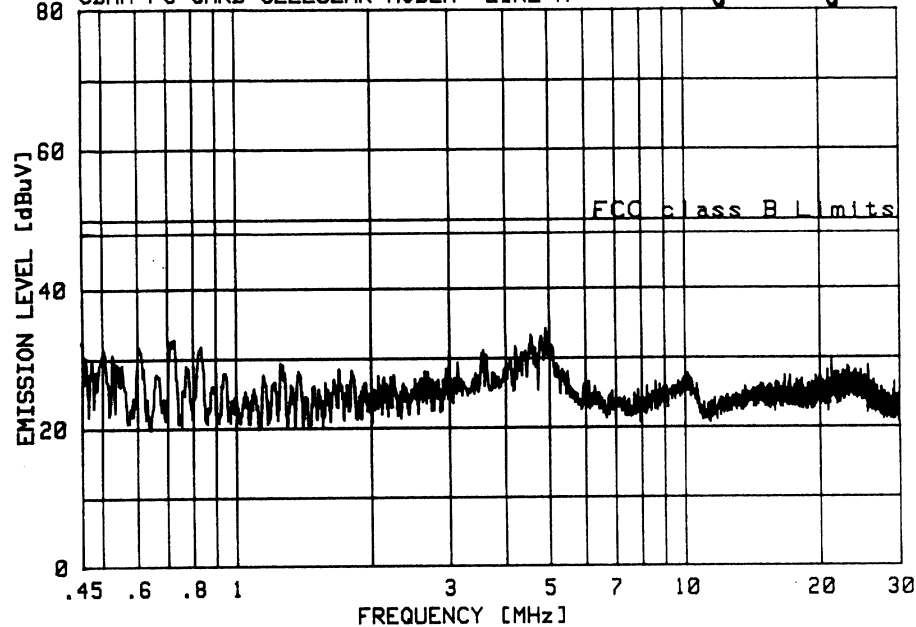
Test Report No.: 22.210423240.PNN  
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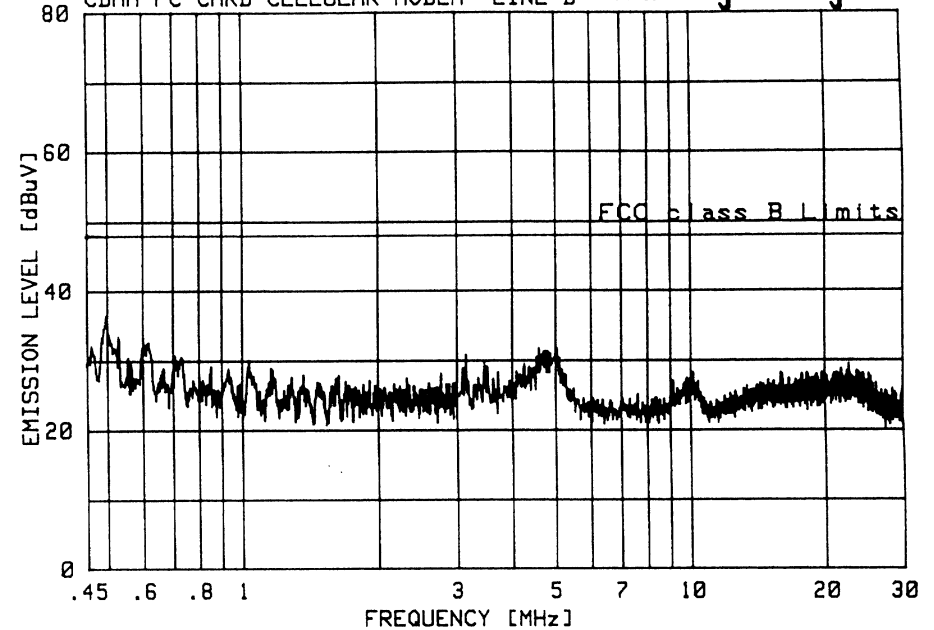


CELL DATA Model: 1CD-5000-3 FCC/B  
CDMA PC CARD CELLULAR MODEM LINE A PCTEST Engineering Lab.



No.	Freq. [MHz]	Quasi-Pk [dBuV]	Average [dBuV]	QP-RV [dB]	Emission [dBuV]	Limit [dBuV]	Margin [dB]
1	4.884	28.10	-	-	28.10	48.00	-19.90
2	4.525	27.18	-	-	27.18	48.00	-20.82
3	4.847	27.67	-	-	27.67	48.00	-20.33
4	.713	31.11	-	-	31.11	48.00	-16.89
5	.451	25.68	-	-	25.68	48.00	-22.32
6	.825	29.28	-	-	29.28	48.00	-18.72
7	.502	29.47	-	-	29.47	48.00	-18.53
8	.597	30.44	-	-	30.44	48.00	-17.56
9	4.274	25.93	-	-	25.93	48.00	-22.07
10	3.516	24.13	-	-	24.13	48.00	-23.87

CELL DATA Model: 1CD-5000-3 FCC/B  
CDMA PC CARD CELLULAR MODEM LINE B PCTEST Engineering Lab.



No.	Freq. [MHz]	Quasi-Pk [dBuV]	Average [dBuV]	QP-RV [dB]	Emission [dBuV]	Limit [dBuV]	Margin [dB]
1	.489	31.70	-	-	31.70	48.00	-16.30
2	.503	29.77	-	-	29.77	48.00	-18.23
3	.600	30.71	-	-	30.71	48.00	-17.29
4	.451	28.23	-	-	28.23	48.00	-19.77
5	4.691	27.55	-	-	27.55	48.00	-20.45
6	5.020	27.81	-	-	27.81	48.00	-20.19
7	3.181	23.75	-	-	23.75	48.00	-24.25
8	.711	27.25	-	-	27.25	48.00	-20.75
9	.729	27.69	-	-	27.69	48.00	-20.31
10	.542	27.33	-	-	27.33	48.00	-20.67

# PCTEST Engineering Lab.

## SPECTRUM ANALYZER PRESENTATION

FCC ID:PNN-CELL5000-3

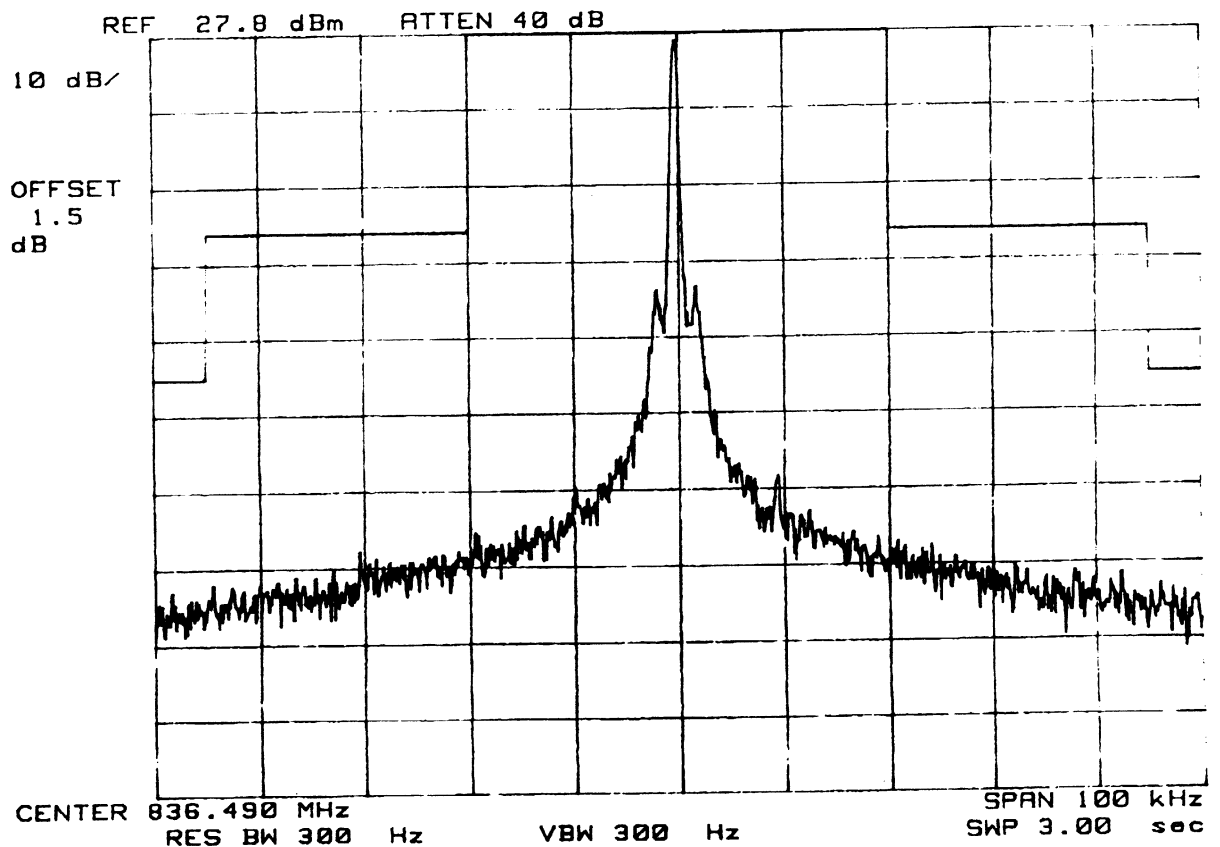
FM MODE

CH-8383

Operating Frequency: 836.498 MHz

Output Power 27.8 dBm

Test Mode:Unmodulated Signal



# PCTEST Engineering Lab.

## SPECTRUM ANALYZER PRESENTATION

FCC ID:PNN-CELL5000-3

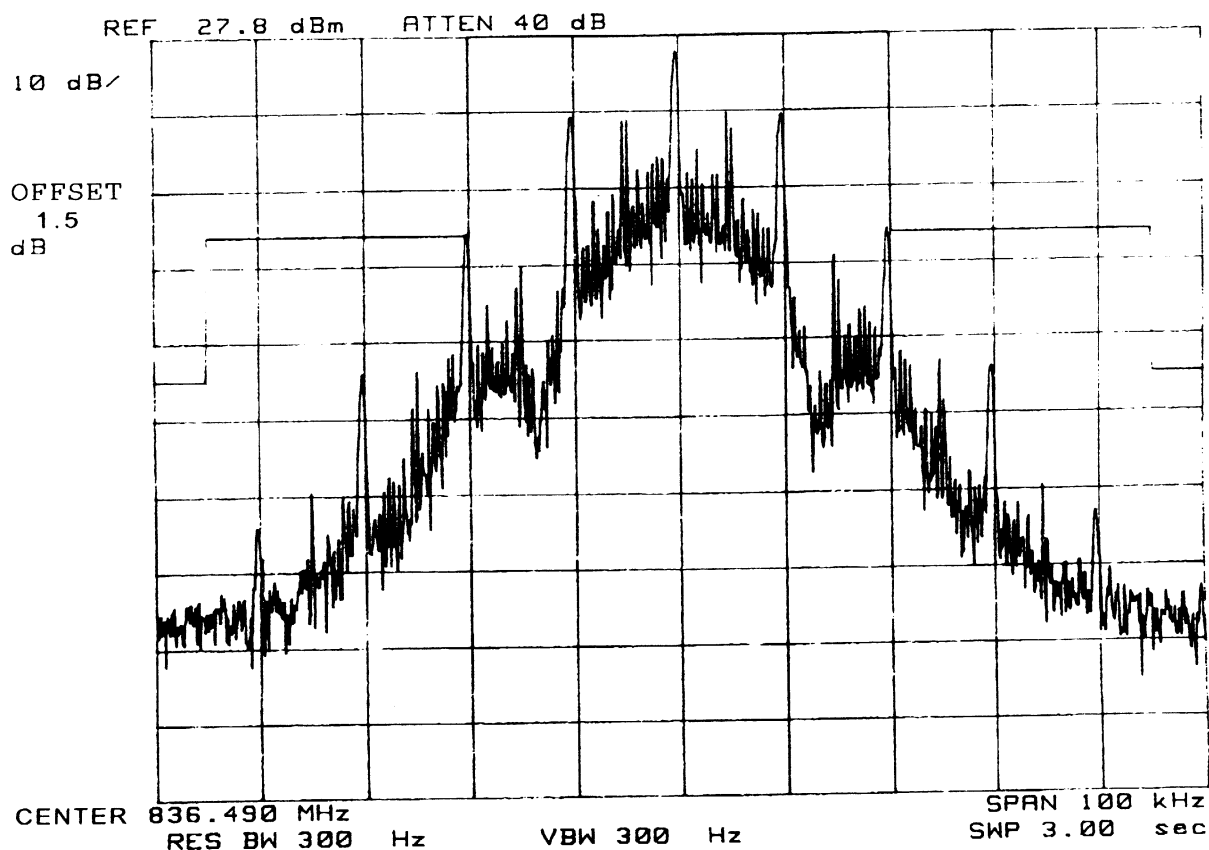
FM MODE

CH-8383

Operating Frequency: 836.498 MHz

Output Power 27.8 dBm

Test Mode:Wide Band Data



# PCTEST Engineering Lab.

## SPECTRUM ANALYZER PRESENTATION

FCC ID:PNN-CELL5000-3

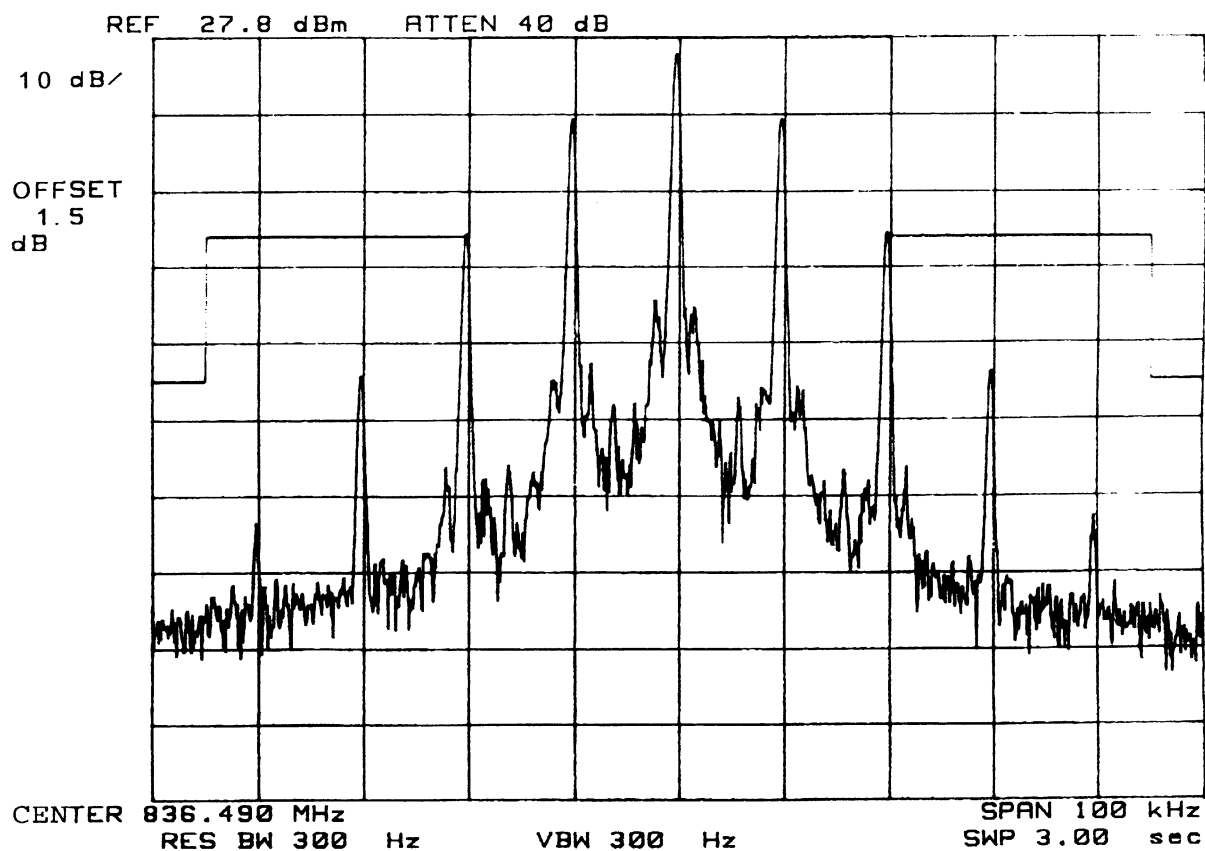
FM MODE

CH-8383

Operating Frequency: 836.498 MHz

Output Power 27.8 dBm

Test Mode:ST



# PCTEST Engineering Lab.

## SPECTRUM ANALYZER PRESENTATION

FCC ID: PNN-CELL5000-3

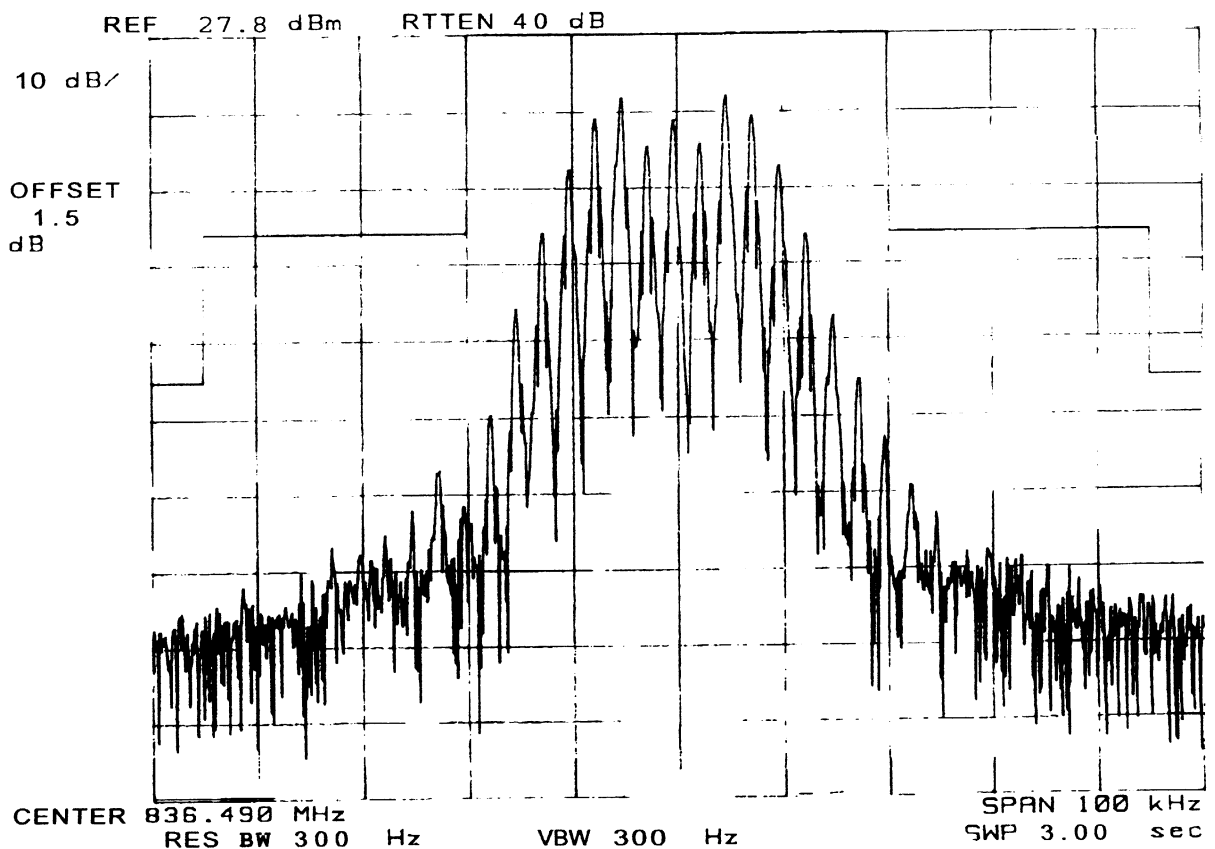
FM MODE

CH-8383

Operating Frequency: 836.498 MHz

Output Power 27.8 dBm

Test Mode: Voice





# PCTEST Engineering Lab.

## SPECTRUM ANALYZER PRESENTATION

FCC ID:PNN-CELL5000-3

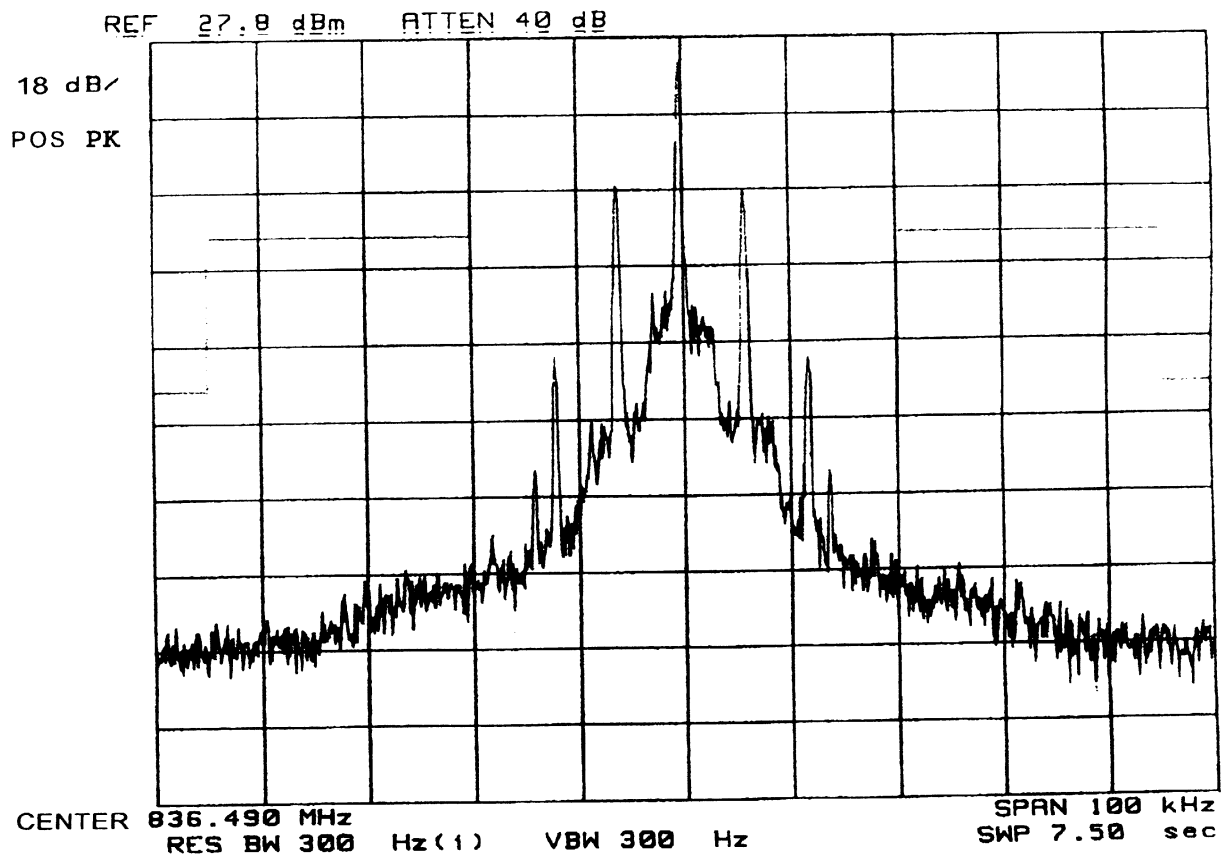
FM MODE

CH-8383

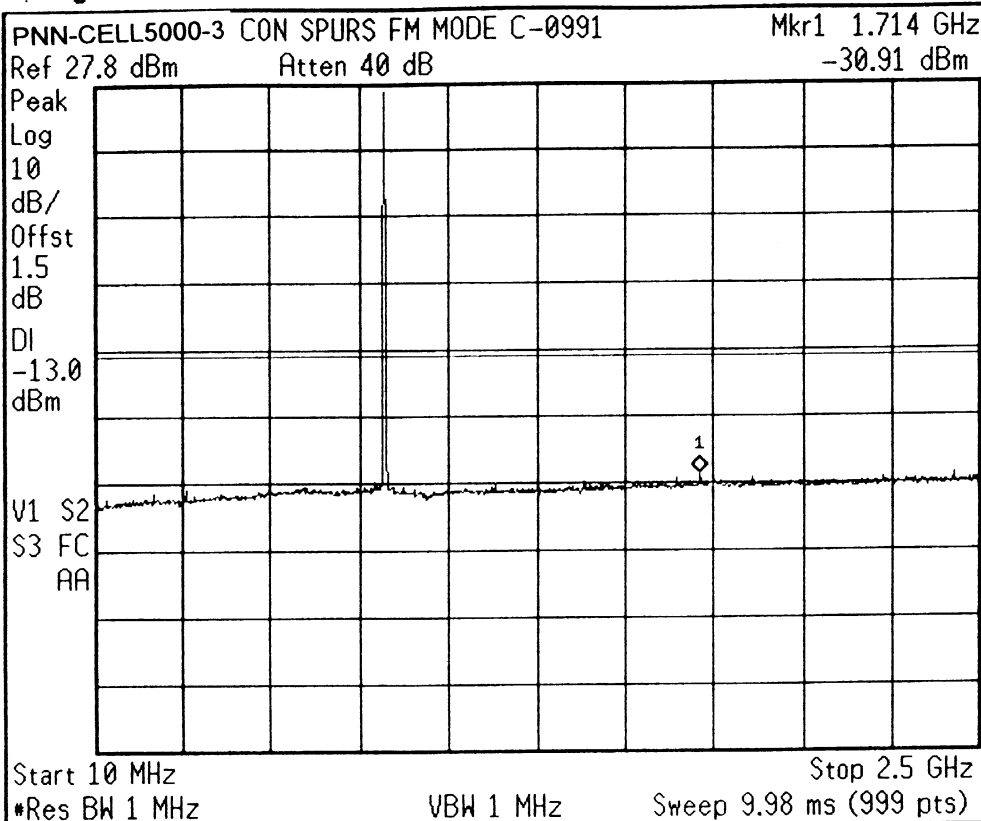
Operating Frequency: 836.490 MHz

Output Power 27.8 dBm

Test Mode: SAT



Agilent 04:33:26 May 4, 2001



Freq/Channel

Center Freq  
 1.25500000 GHz

Start Freq  
 10.0000000 MHz

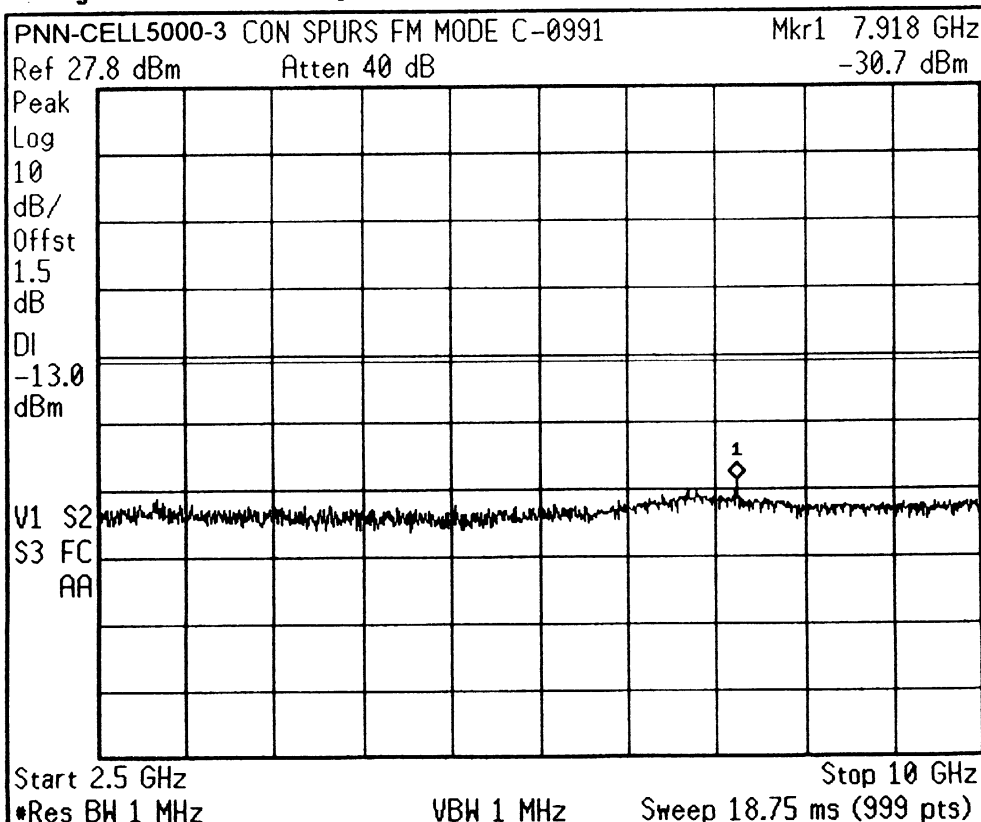
Stop Freq  
 2.50000000 GHz

CF Step  
 249.000000 MHz  
 Auto Man

Freq Offset  
 0.00000000 Hz

Signal Track  
 On Off

Agilent 04:34:21 May 4, 2001



Freq/Channel

Center Freq  
 6.25000000 GHz

Start Freq  
 2.50000000 GHz

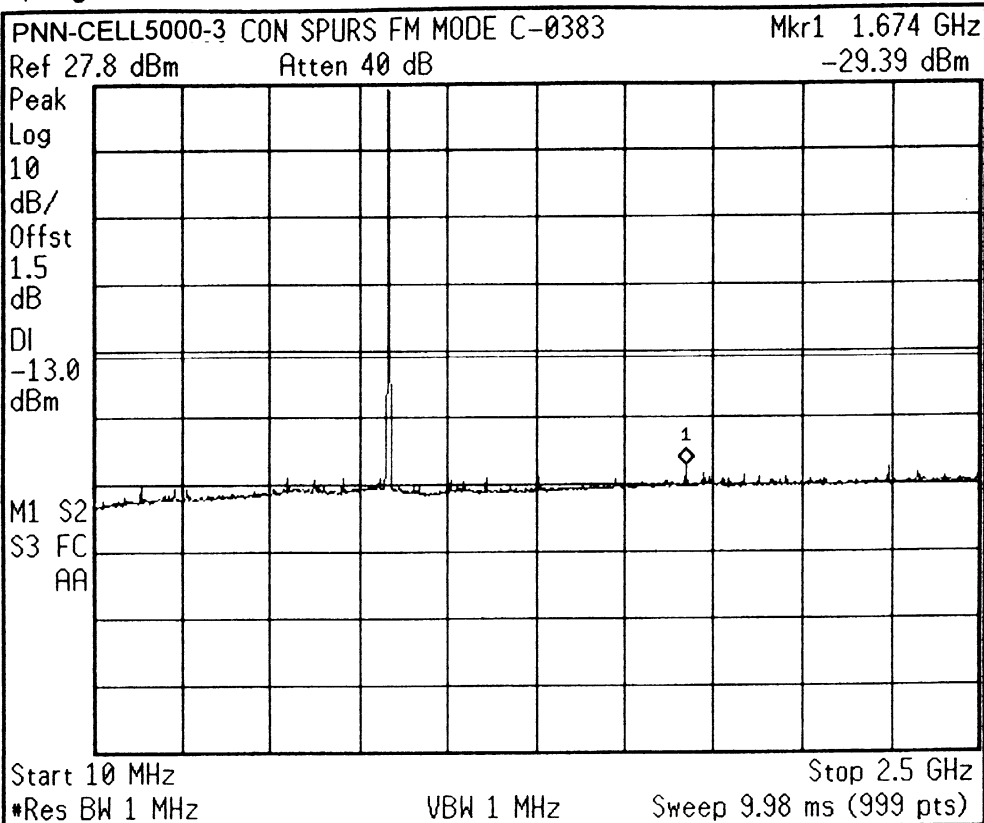
Stop Freq  
 10.0000000 GHz

CF Step  
 750.000000 MHz  
 Auto Man

Freq Offset  
 0.00000000 Hz

Signal Track  
 On Off

Agilent 04:29:31 May 4, 2001



Freq/Channel

Center Freq  
 1.25500000 GHz

Start Freq  
 10.0000000 MHz

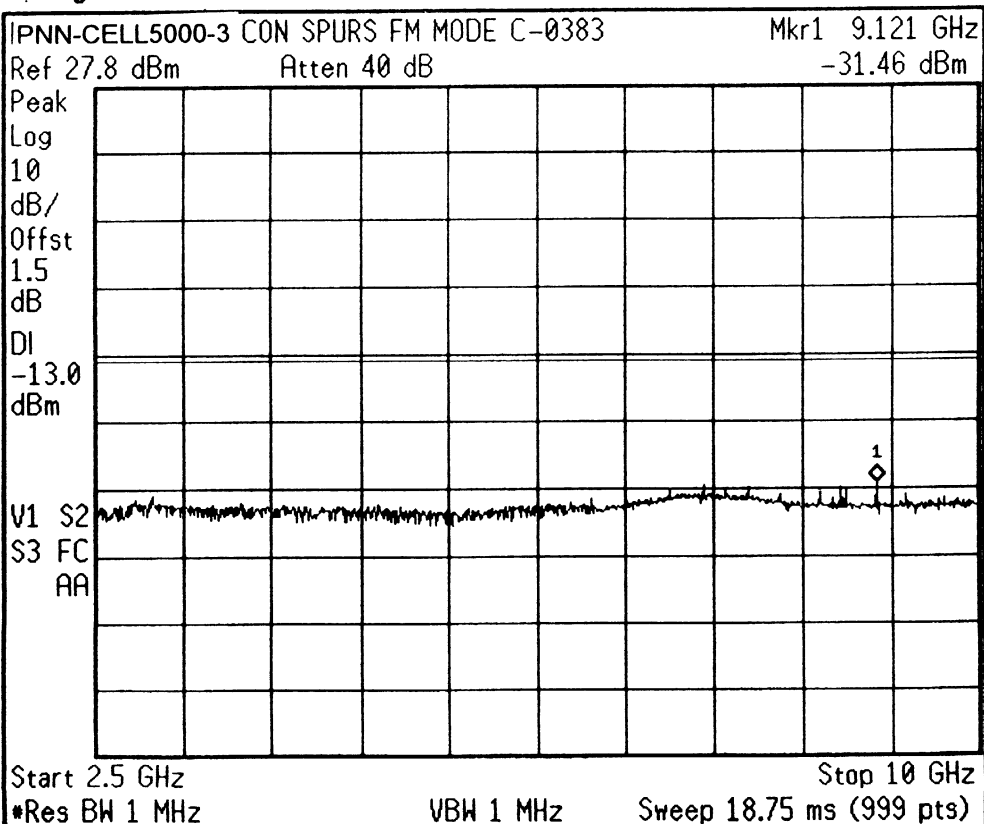
Stop Freq  
 2.50000000 GHz

CF Step  
 249.000000 MHz  
 Auto Man

Freq Offset  
 0.00000000 Hz

Signal Track  
 On Off

Agilent 04:30:51 May 4, 2001



Freq/Channel

Center Freq  
 6.25000000 GHz

Start Freq  
 2.50000000 GHz

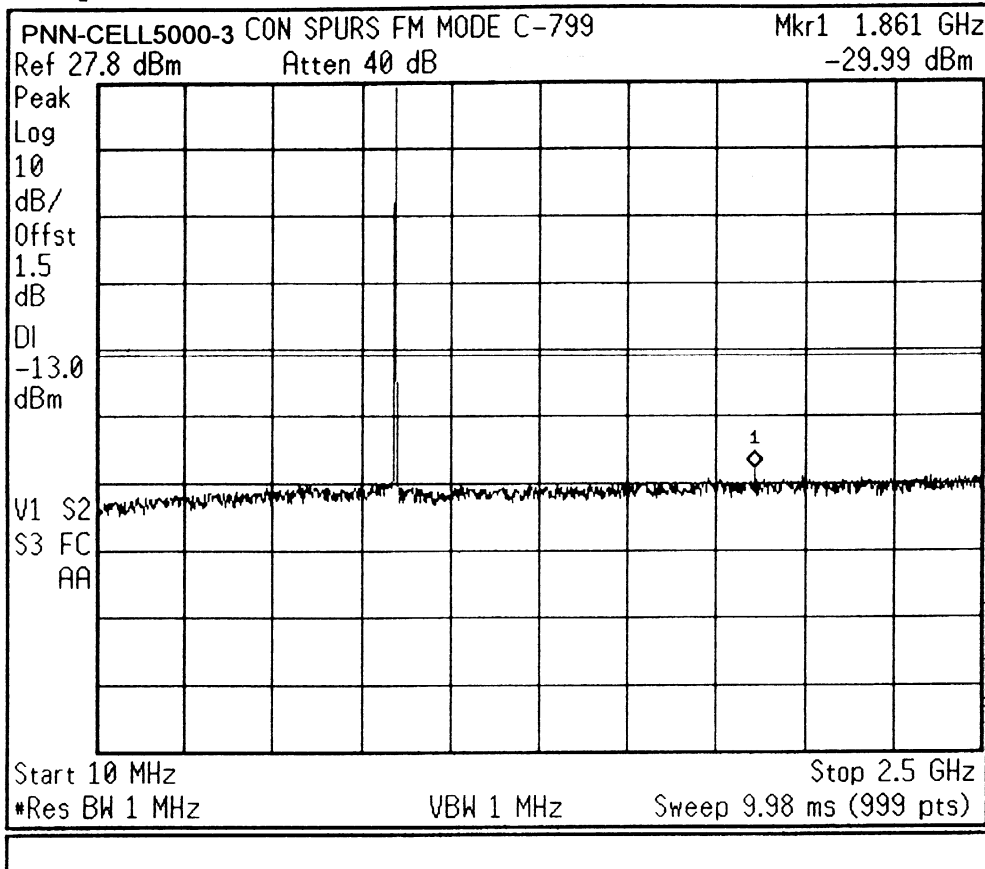
Stop Freq  
 10.0000000 GHz

CF Step  
 750.000000 MHz  
 Auto Man

Freq Offset  
 0.00000000 Hz

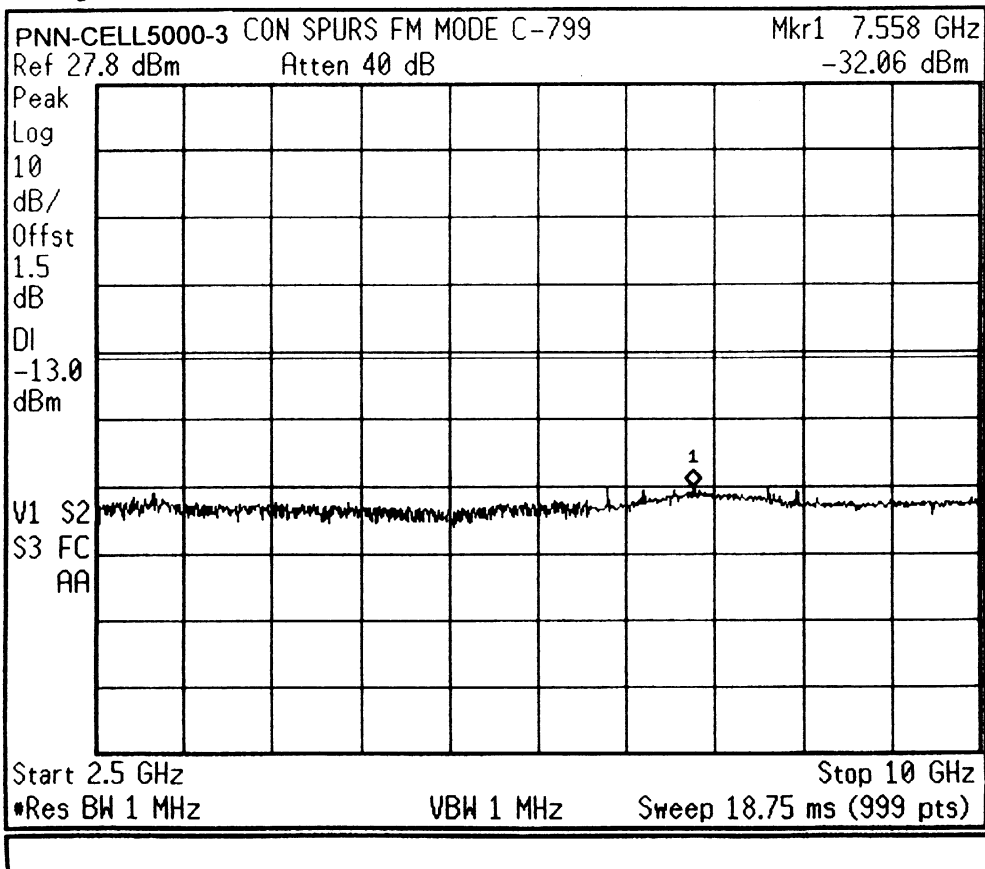
Signal Track  
 On Off

Agilent 04:37:48 May 4, 2001



<b>Freq/Channel</b>	
<b>Center Freq</b>	1.25500000 GHz
<b>Start Freq</b>	10.0000000 MHz
<b>Stop Freq</b>	2.50000000 GHz
<b>CF Step</b>	249.000000 MHz Auto Man
<b>Freq Offset</b>	0.00000000 Hz
<b>Signal Track</b>	On Off

Agilent 04:38:35 May 4, 2001



<b>Freq/Channel</b>	
<b>Center Freq</b>	6.25000000 GHz
<b>Start Freq</b>	2.50000000 GHz
<b>Stop Freq</b>	10.0000000 GHz
<b>CF Step</b>	750.000000 MHz Auto Man
<b>Freq Offset</b>	0.00000000 Hz
<b>Signal Track</b>	On Off

Agilent 05:01:30 May 4, 2001

PNN-CELL5000-3 CDMA MODE BAND EDGE C-0777

Ref 25 dBm

Atten 35 dB

Peak

Log

10

dB/

Offst

1.5

dB

DI

-13.0

dBm

V1 S2

S3 FC

AA

Center 849 MHz

Span 5 MHz

\*Res BW 30 kHz

VBW 30 kHz

Sweep 13.89 ms (999 pts)

Freq/Channel

Center Freq

849.000000 MHz

Start Freq

846.500000 MHz

Stop Freq

851.500000 MHz

CF Step

500.000000 kHz

Auto

Man

Freq Offset

0.00000000 Hz

Signal Track

On

Off

Agilent 05:02:59 May 4, 2001

PNN-CELL5000-3 CDMA MODE BAND EDGE C-1013

Ref 25 dBm

Atten 35 dB

Peak

Log

10

dB/

Offst

1.5

dB

DI

-13.0

dBm

V1 S2

S3 FC

AA

Center 824 MHz

Span 5 MHz

\*Res BW 30 kHz

VBW 30 kHz

Sweep 13.89 ms (999 pts)

Freq/Channel

Center Freq

824.000000 MHz

Start Freq

821.500000 MHz

Stop Freq

826.500000 MHz

CF Step

500.000000 kHz

Auto

Man

Freq Offset

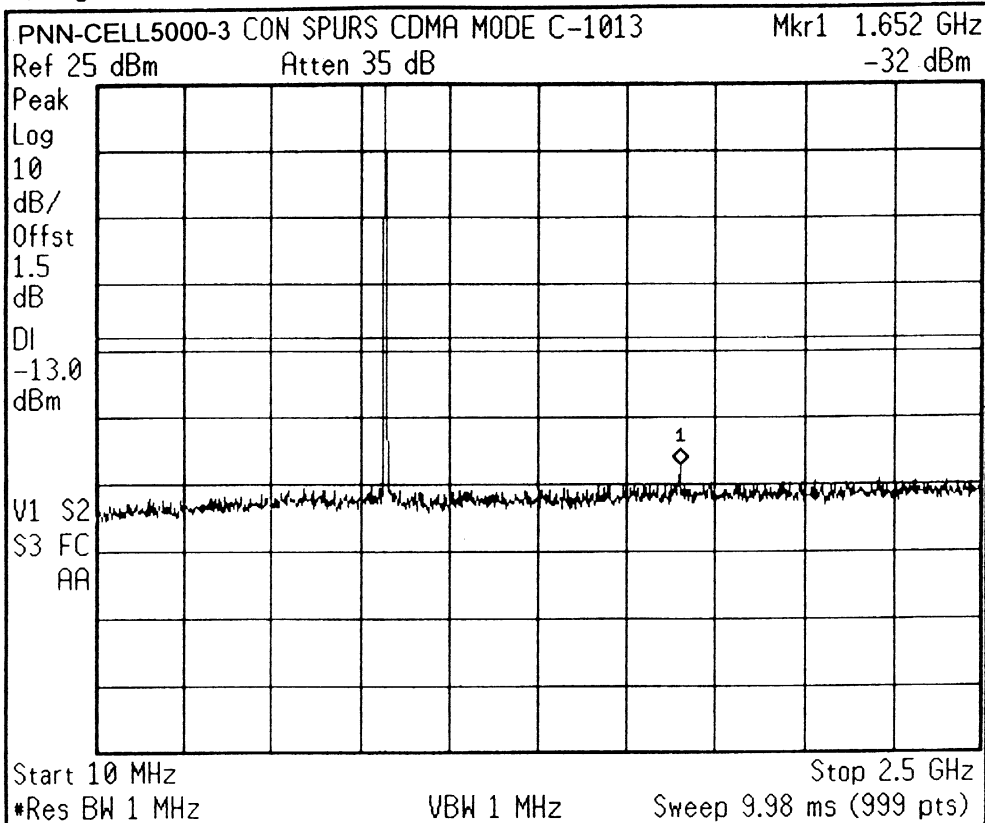
0.00000000 Hz

Signal Track

On

Off

Agilent 04:49:07 May 4, 2001



Freq/Channel

Center Freq  
1.25500000 GHz

Start Freq  
10.0000000 MHz

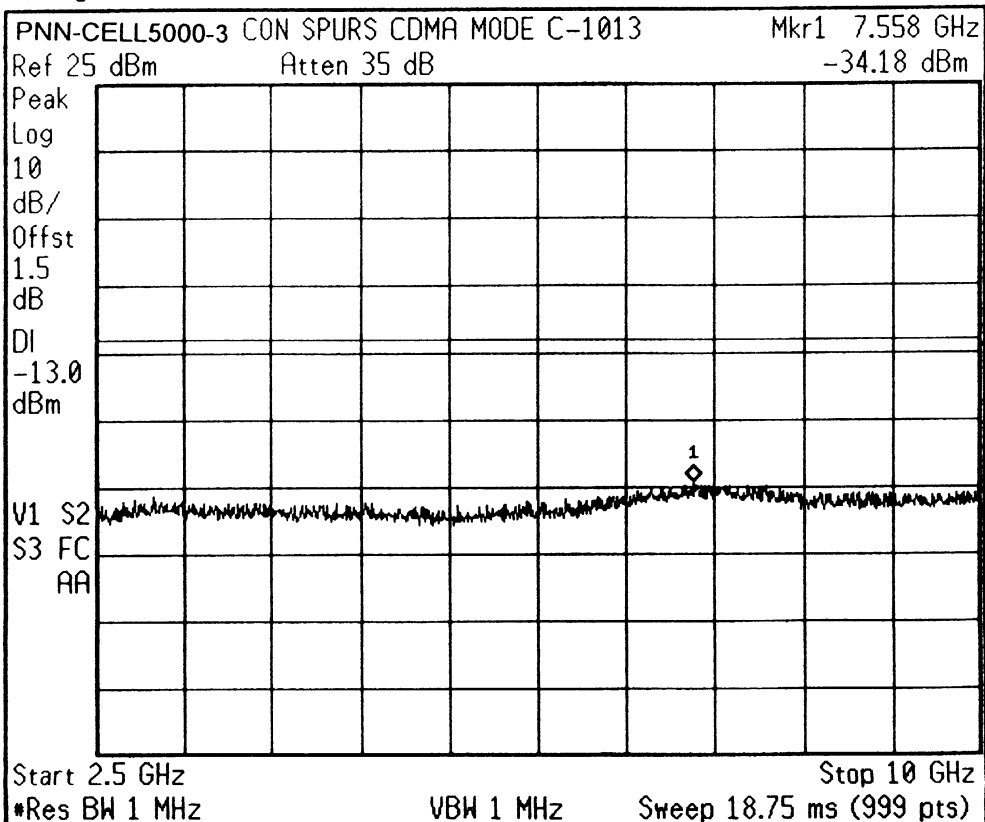
Stop Freq  
2.50000000 GHz

CF Step  
249.000000 MHz  
Auto Man

Freq Offset  
0.00000000 Hz

Signal Track  
On Off

Agilent 04:49:51 May 4, 2001



Freq/Channel

Center Freq  
6.25000000 GHz

Start Freq  
2.50000000 GHz

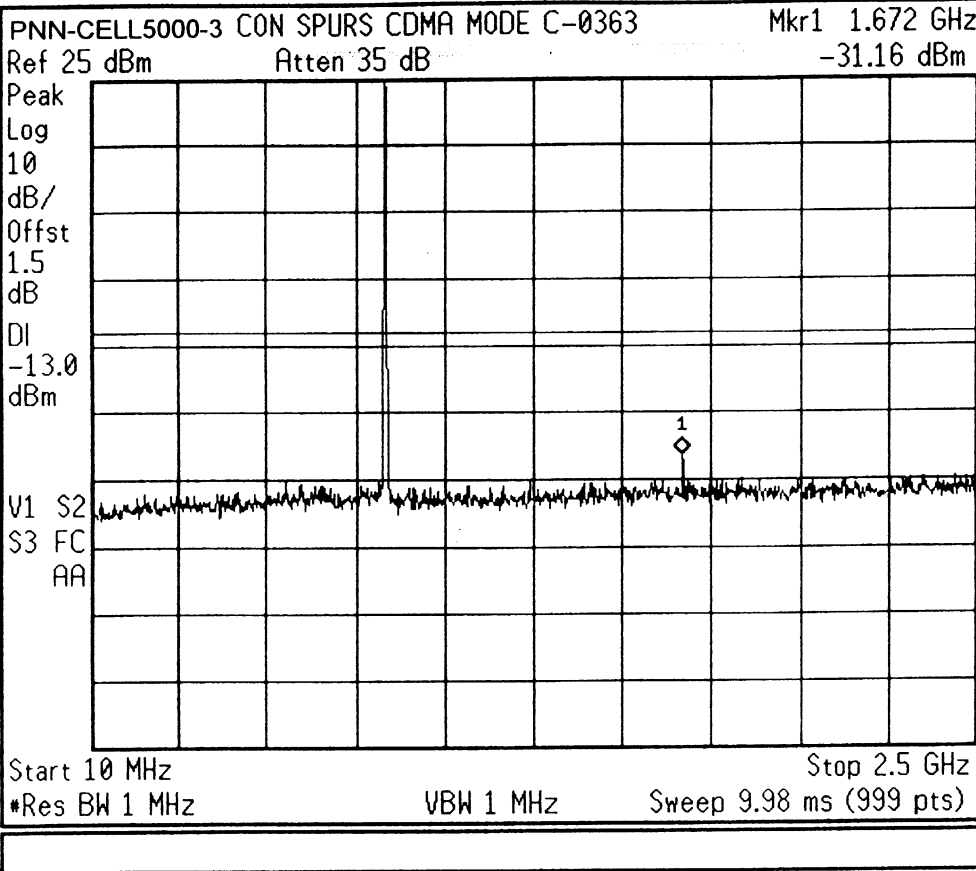
Stop Freq  
10.0000000 GHz

CF Step  
750.000000 MHz  
Auto Man

Freq Offset  
0.00000000 Hz

Signal Track  
On Off

Agilent 04:55:10 May 4, 2001



Freq/Channel

Center Freq  
 1.25500000 GHz

Start Freq  
 10.0000000 MHz

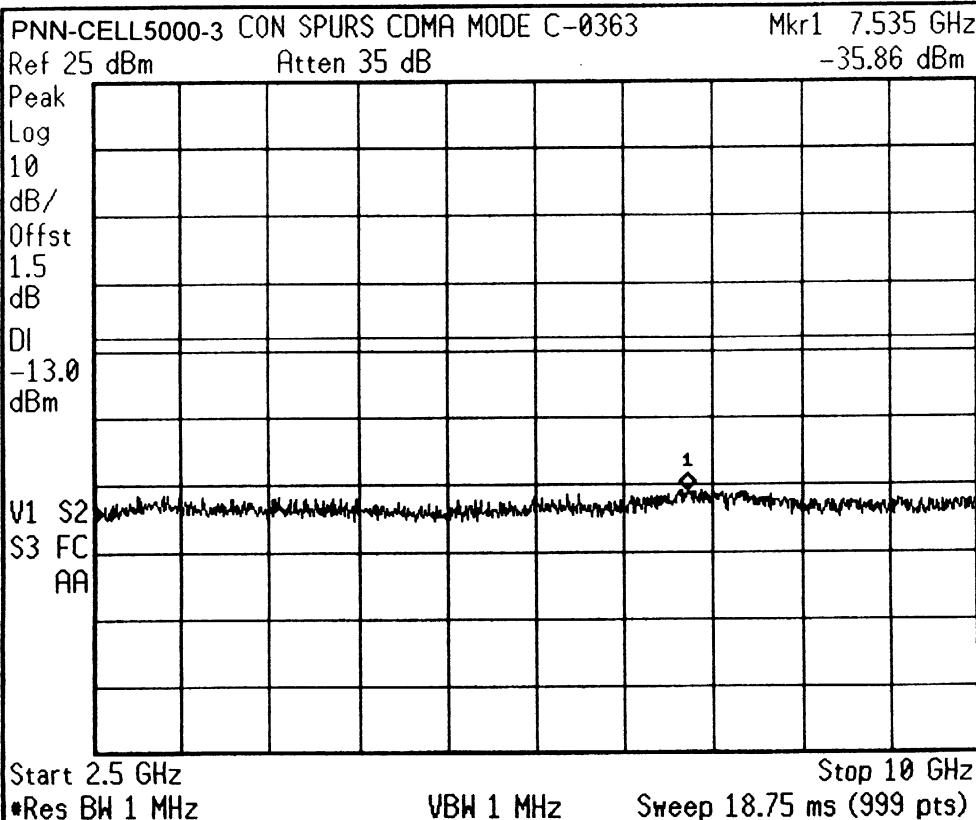
Stop Freq  
 2.50000000 GHz

CF Step  
 249.000000 MHz  
 Auto Man

Freq Offset  
 0.00000000 Hz

Signal Track  
 On Off

Agilent 04:55:51 May 4, 2001



Freq/Channel

Center Freq  
 6.25000000 GHz

Start Freq  
 2.50000000 GHz

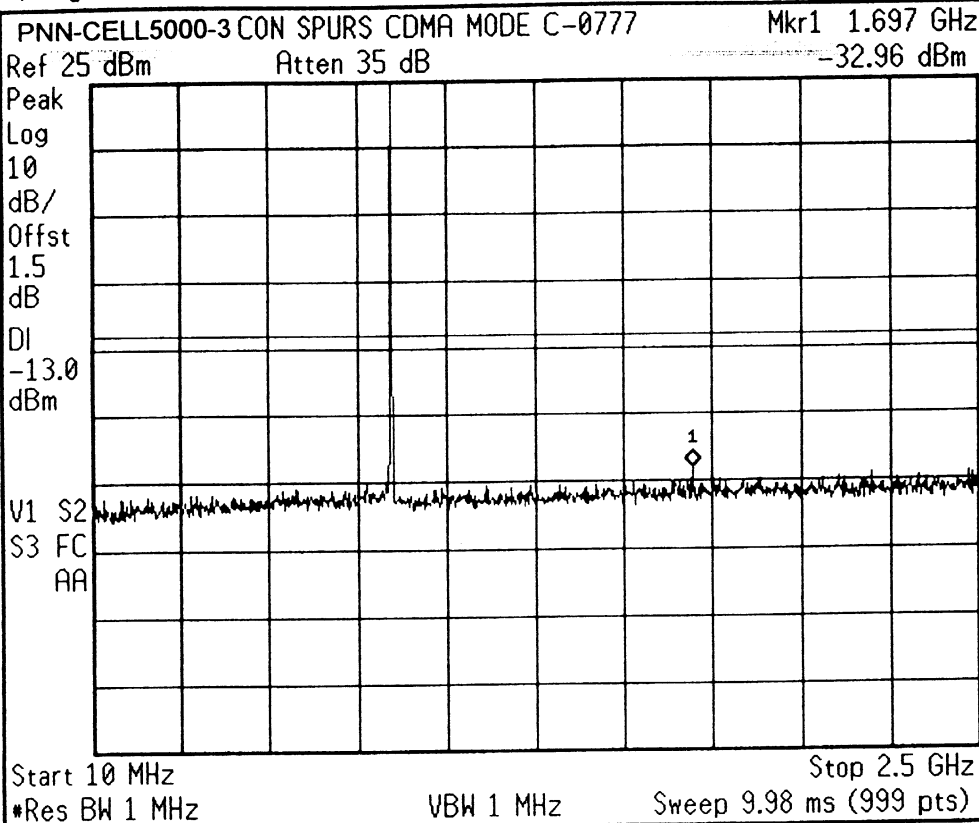
Stop Freq  
 10.0000000 GHz

CF Step  
 750.000000 MHz  
 Auto Man

Freq Offset  
 0.00000000 Hz

Signal Track  
 On Off

Agilent 04:58:02 May 4, 2001



Freq/Channel

Center Freq  
 1.25500000 GHz

Start Freq  
 10.0000000 MHz

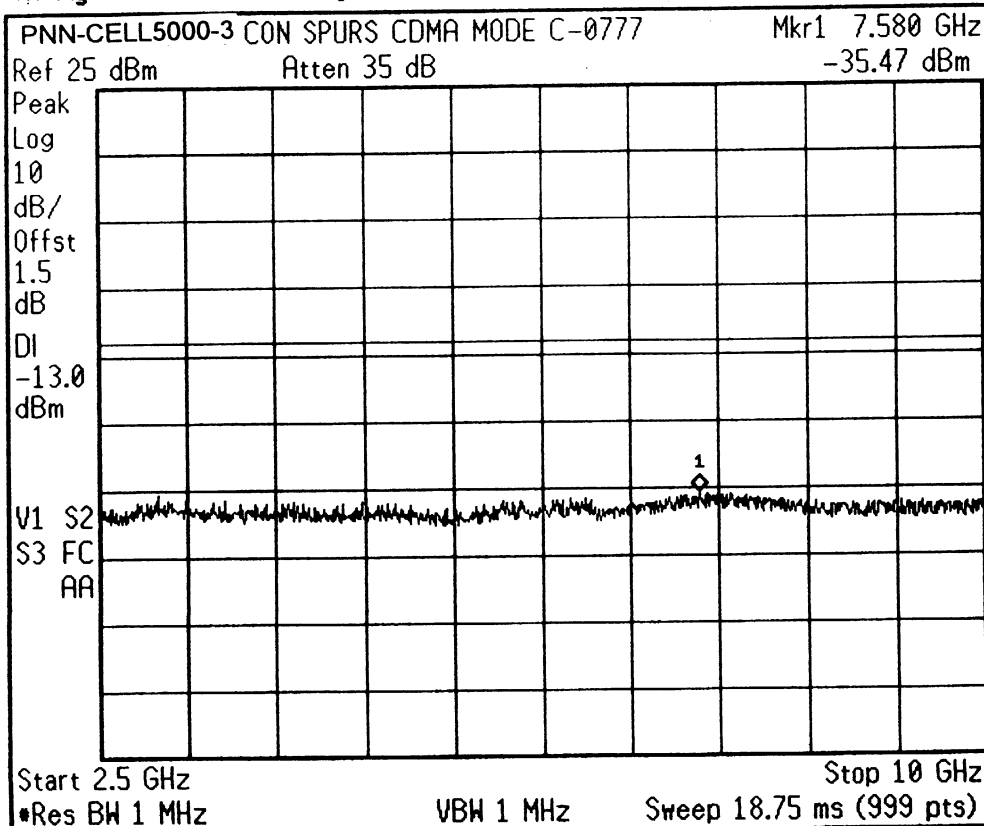
Stop Freq  
 2.50000000 GHz

CF Step  
 249.000000 MHz  
 Auto Man

Freq Offset  
 0.00000000 Hz

Signal Track  
 On Off

Agilent 04:58:49 May 4, 2001



Freq/Channel

Center Freq  
 6.25000000 GHz

Start Freq  
 2.50000000 GHz

Stop Freq  
 10.0000000 GHz

CF Step  
 750.000000 MHz  
 Auto Man

Freq Offset  
 0.00000000 Hz

Signal Track  
 On Off