

PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:A3LSPHA570

SAMSUNG

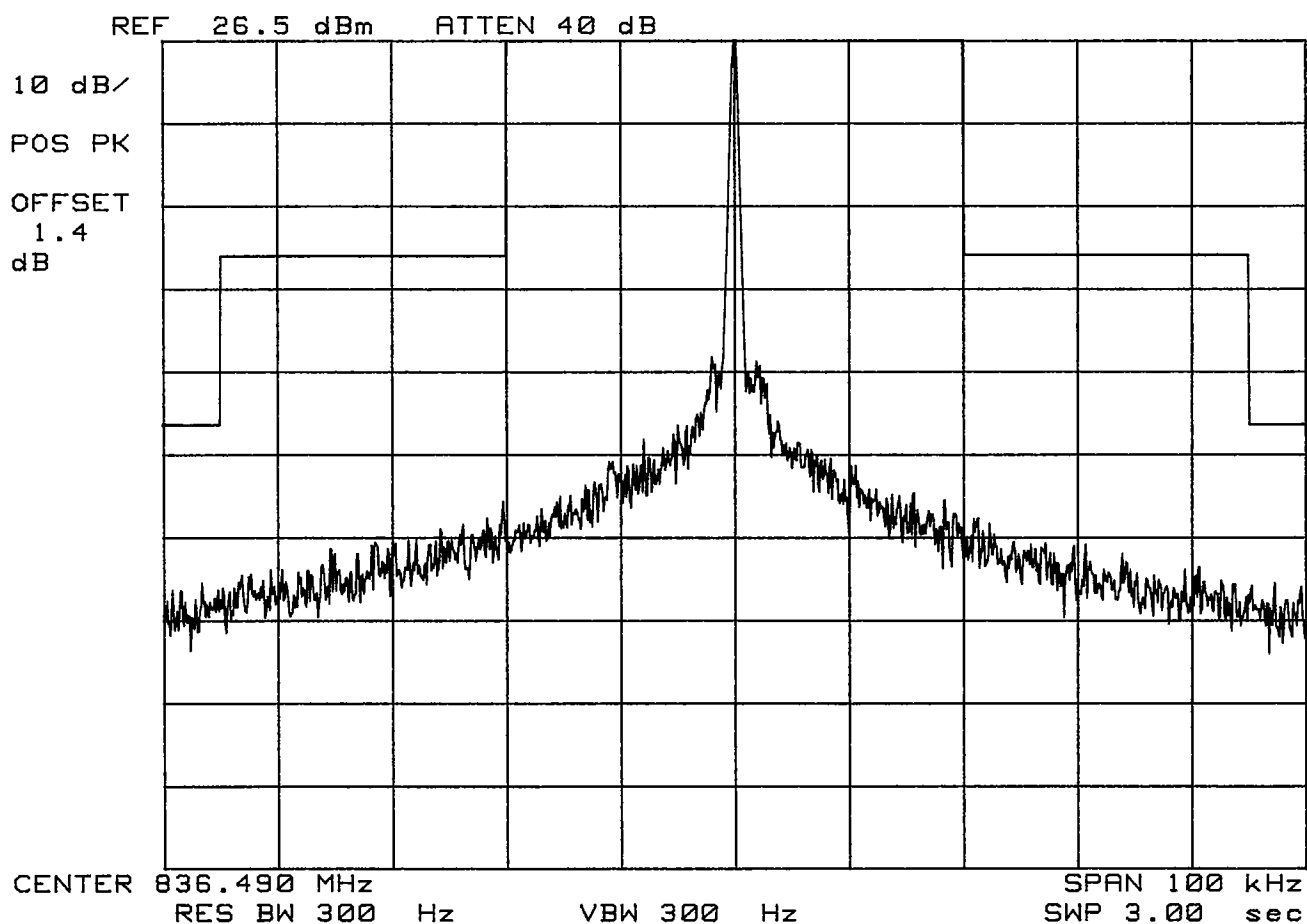
Tri-Mode Phone

FM Channel 383

Operating Frequency: 836.490 MHz

Output Power : 26.5 dBm

Test Mode:Unmodulated Signal



PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:A3LSPHA570

SAMSUNG

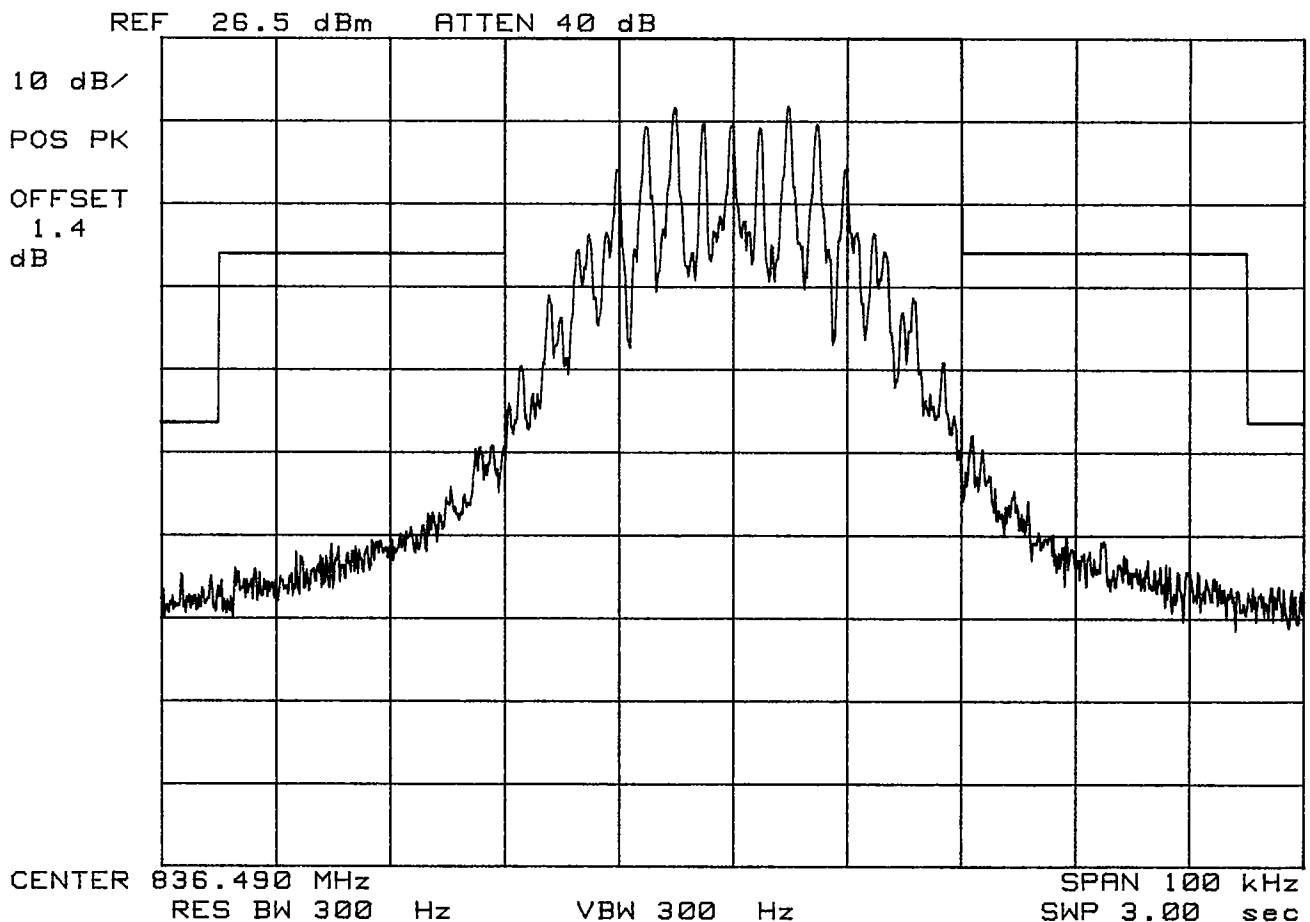
Tri-Mode Phone

FM Channel 383

Operating Frequency: 836.490 MHz

Output Power : 26.5 dBm

Test Mode:SAT + Voice



PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:A3LSPHA570

SAMSUNG

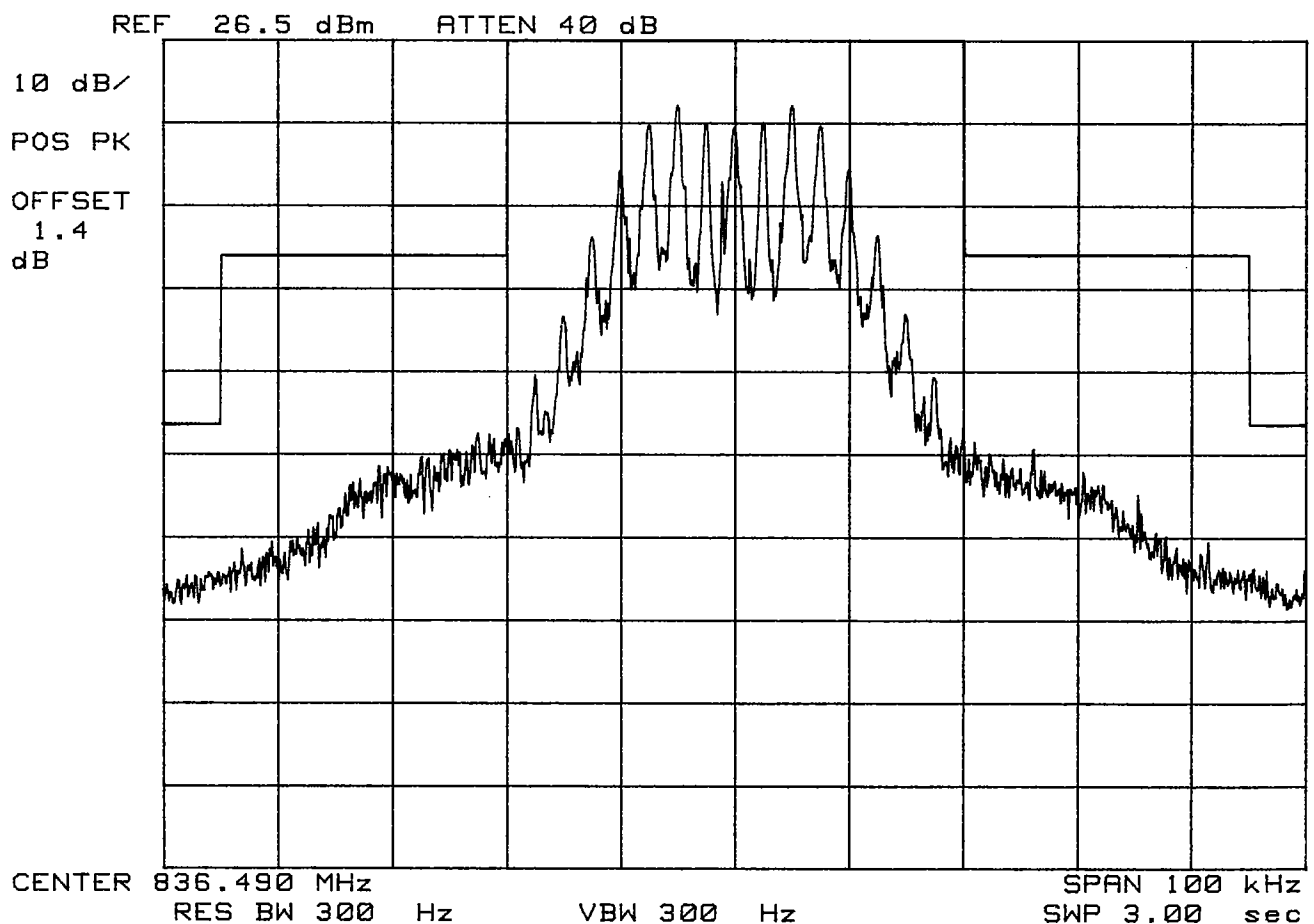
Tri-Mode Phone

FM Channel 383

Operating Frequency: 836.490 MHz

Output Power : 26.5 dBm

Test Mode:Voice



PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:A3LSPHA570

SAMSUNG

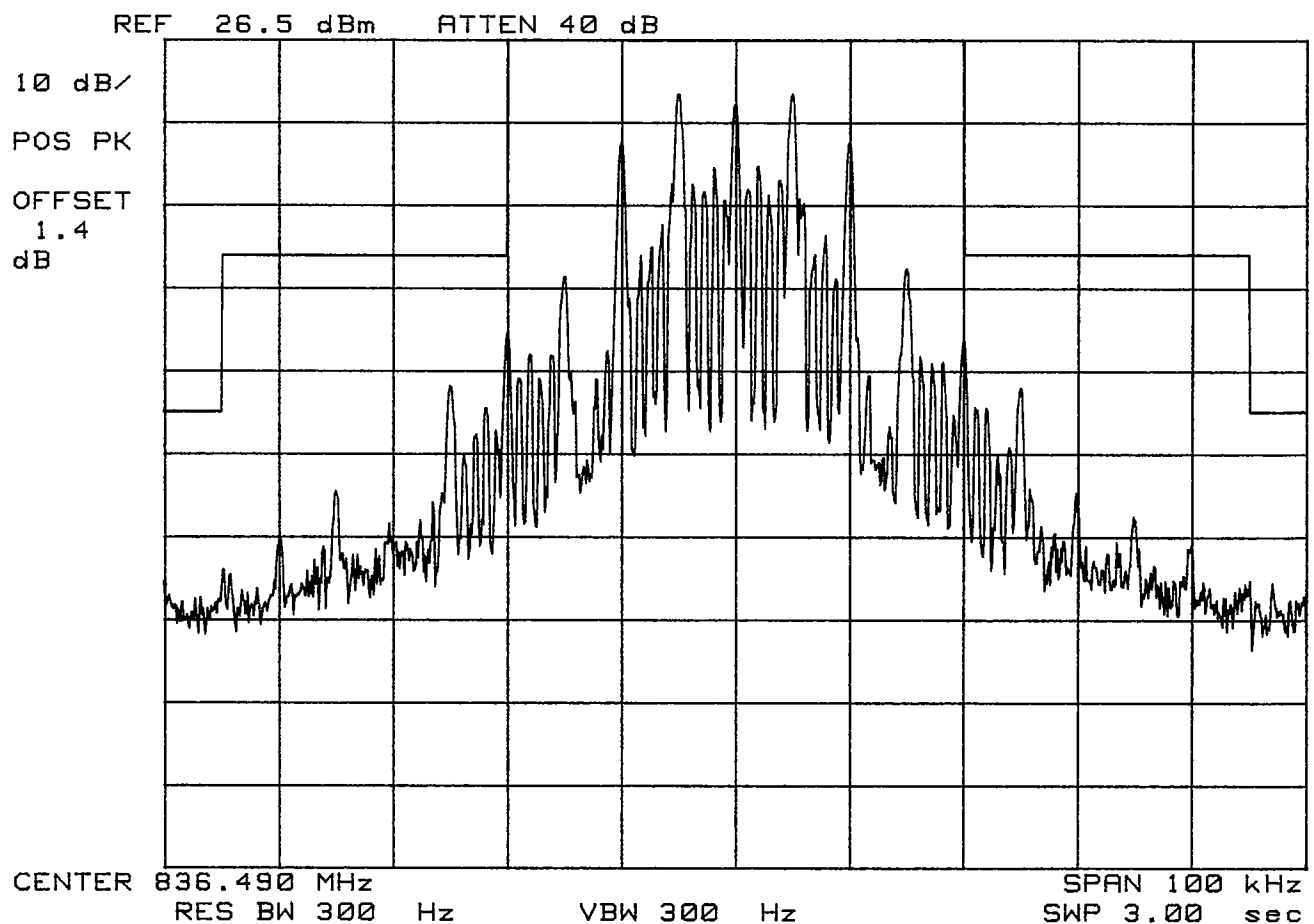
Tri-Mode Phone

FM Channel 383

Operating Frequency: 836.490 MHz

Output Power : 26.5 dBm

Test Mode:Wide Band Data



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SPECTRUM ANALYZER PRESENTATION

FCC ID:A3LSPHA570

SAMSUNG

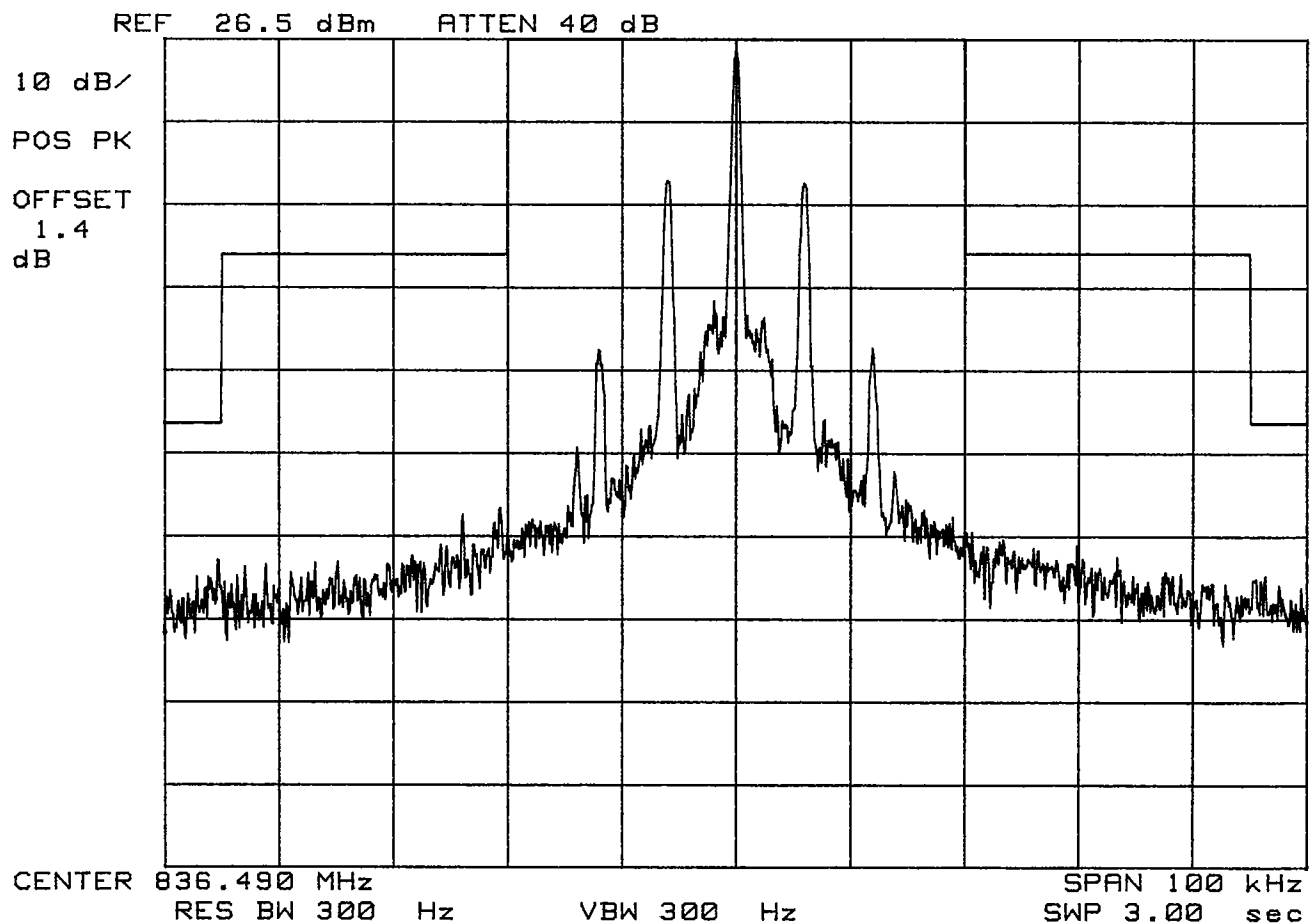
Tri-Mode Phone

FM Channel 383

Operating Frequency: 836.490 MHz

Output Power : 26.5 dBm

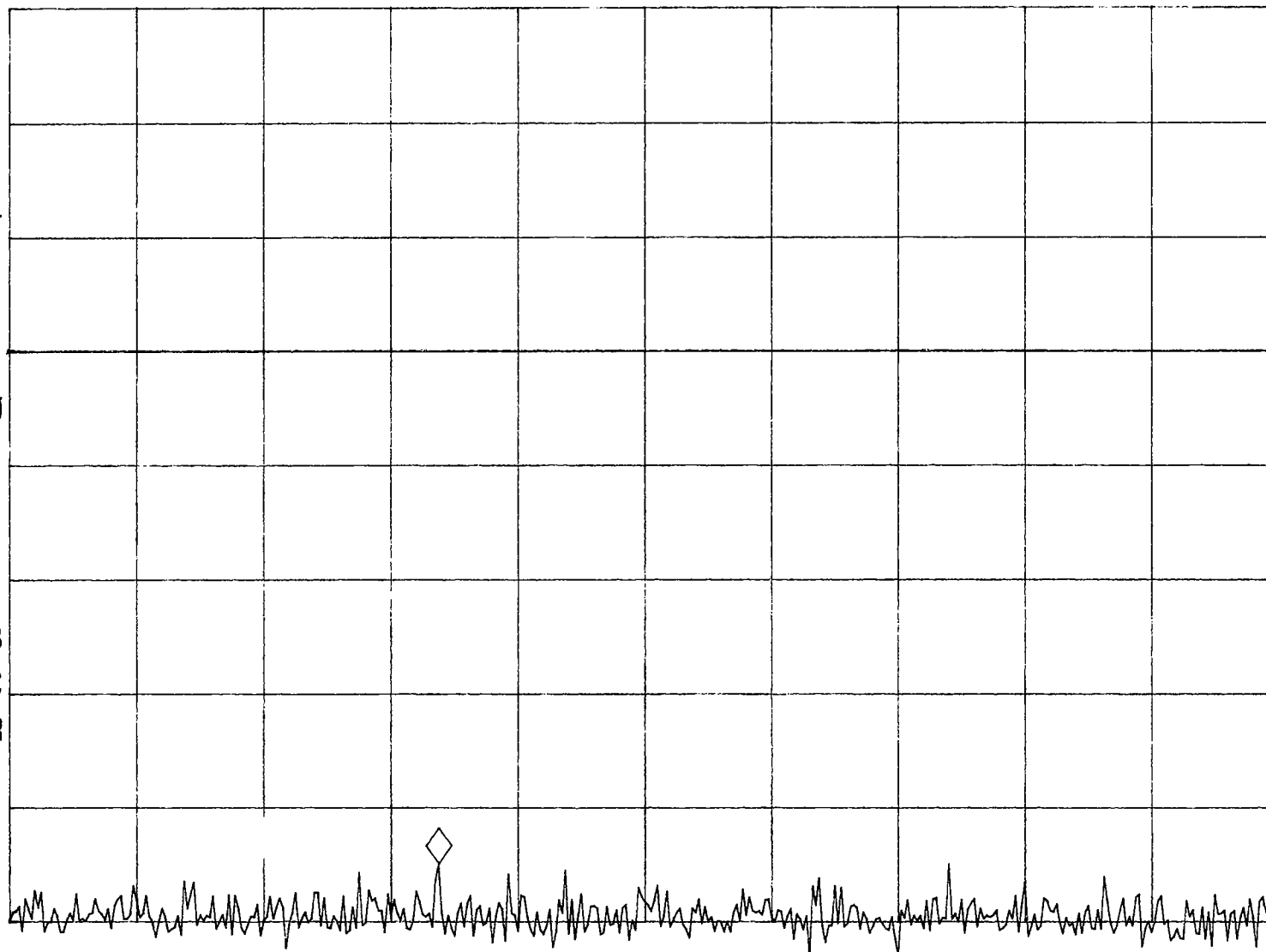
Test Mode:SAT



~~h~~ FCC ID: A3LSCHA570 FM MODE MKR 877.44 MHz
REF -60.0 dBm #ATTEN 10 dB PG 25.0 dB -97.45 dBm

PEAK
LOG
5
dB/
OFFST
6.0
dB
DL
-75.0
dBm

VA SB
SC FC
CORR



START 869.00 MHz

STOP 894.00 MHz

#RES BW 100 kHz

#VBW 100 kHz

SWP 20 msec

PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:R3LSPHA570

SAMSUNG

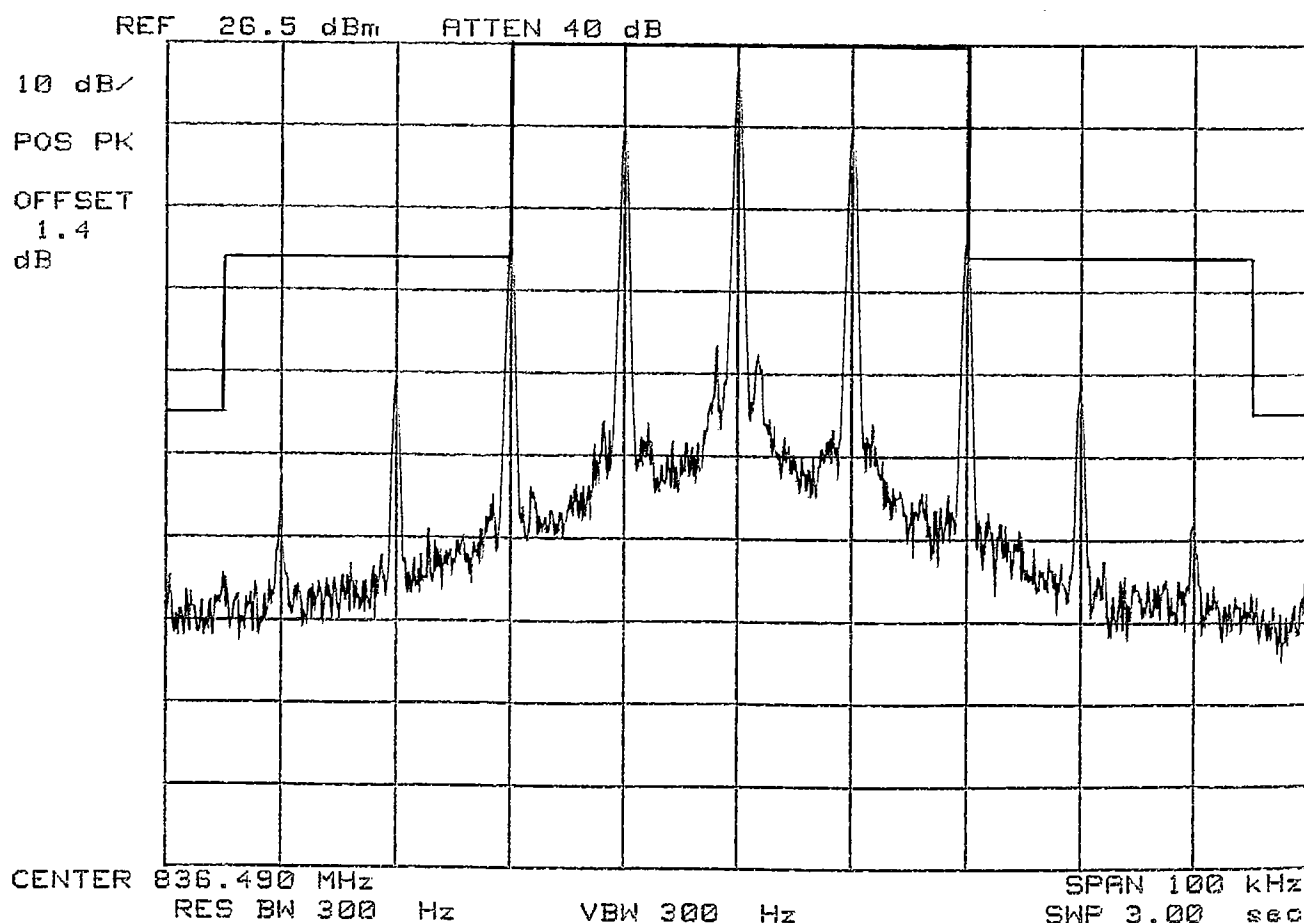
Tri-Mode Phone

FM Channel 383

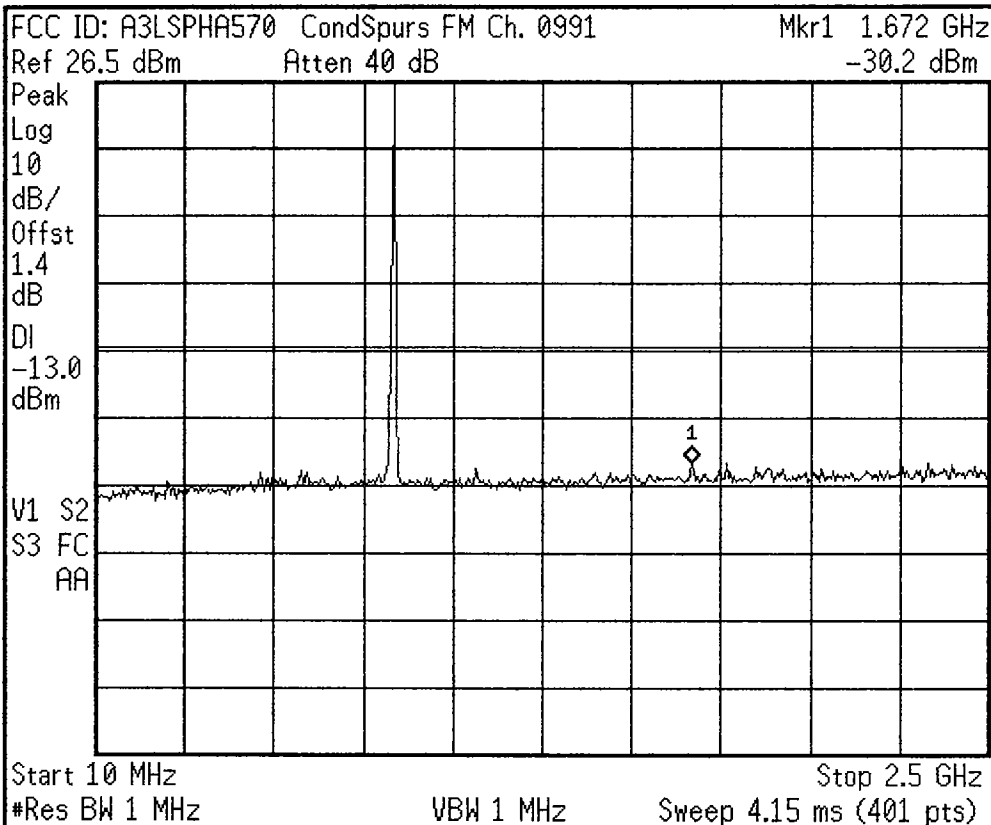
Operating Frequency: 836.490 MHz

Output Power : 26.5 dBm

Test Mode:ST



* Agilent 10:30:30 May 28, 2002



Freq/Channel

Center Freq
 1.25500000 GHz

Start Freq
 10.0000000 MHz

Stop Freq
 2.50000000 GHz

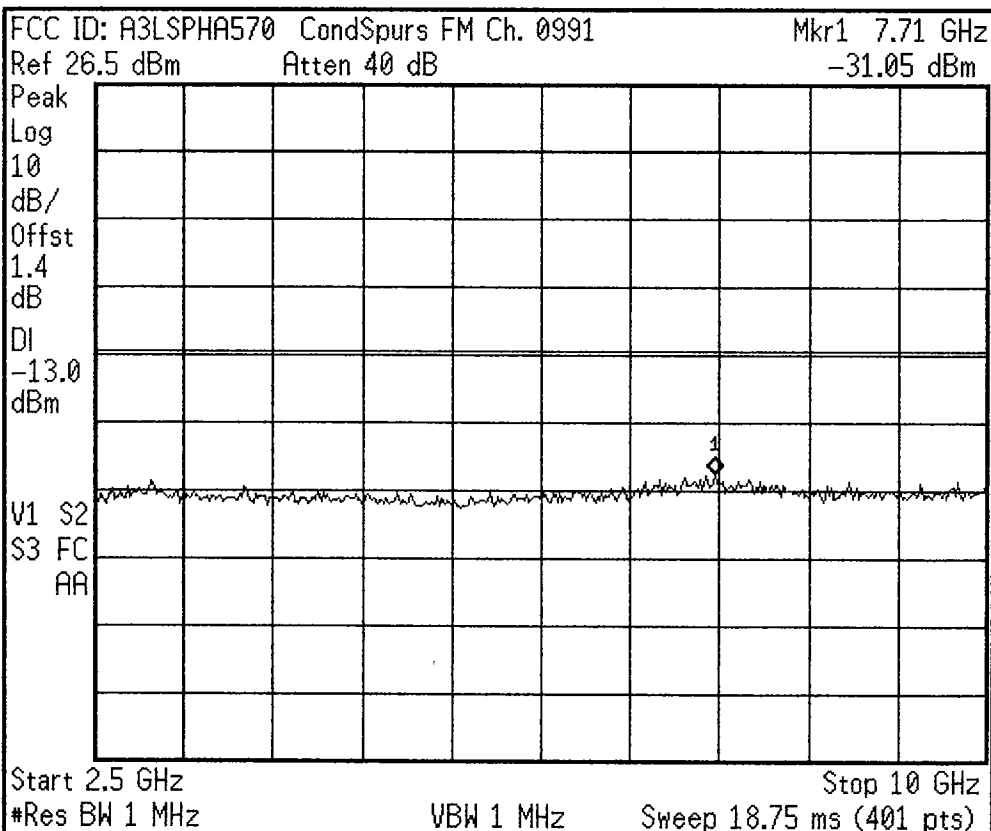
CF Step
 249.000000 MHz
 Auto Man

Freq Offset
 0.00000000 Hz

Signal Track
 On Off

Scale Type
 Log Lin

* Agilent 10:31:35 May 28, 2002



Freq/Channel

Center Freq
 6.25000000 GHz

Start Freq
 2.50000000 GHz

Stop Freq
 10.0000000 GHz

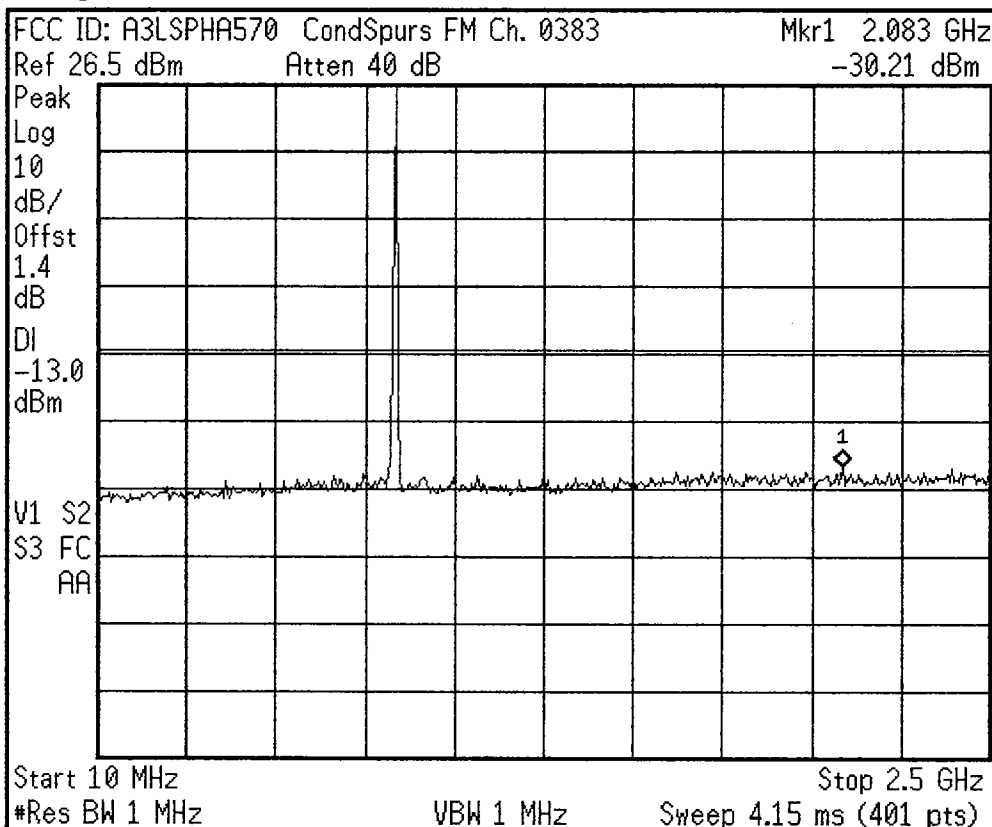
CF Step
 750.000000 MHz
 Auto Man

Freq Offset
 0.00000000 Hz

Signal Track
 On Off

Scale Type
 Log Lin

✱ Agilent 10:32:36 May 28, 2002



Freq/Channel

Center Freq
 1.25500000 GHz

Start Freq
 10.0000000 MHz

Stop Freq
 2.50000000 GHz

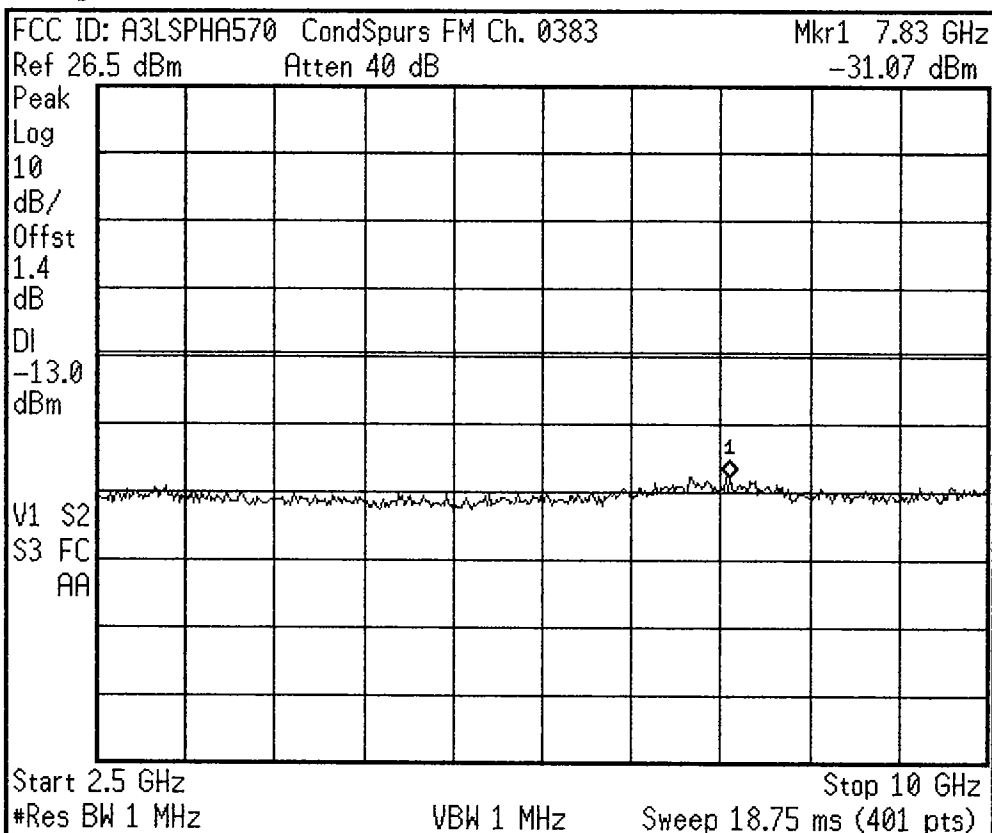
CF Step
 249.000000 MHz
 Auto Man

Freq Offset
 0.00000000 Hz

Signal Track
 On Off

Scale Type
 Log Lin

✱ Agilent 10:33:18 May 28, 2002



Freq/Channel

Center Freq
 6.25000000 GHz

Start Freq
 2.50000000 GHz

Stop Freq
 10.0000000 GHz

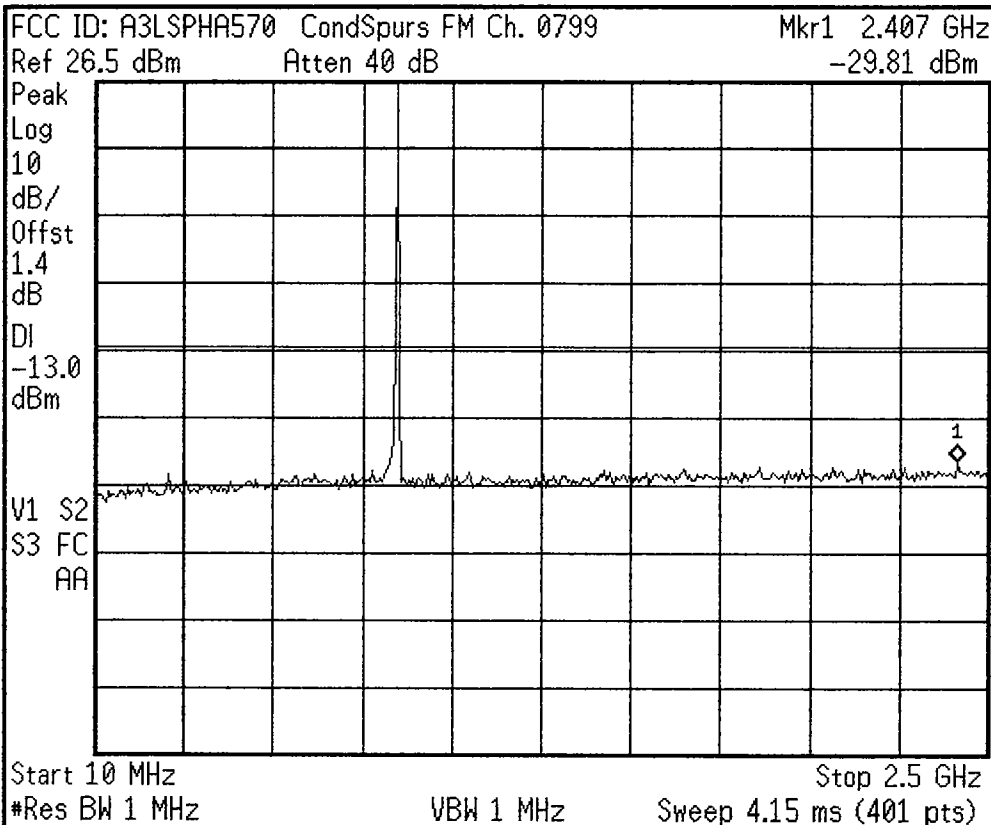
CF Step
 750.000000 MHz
 Auto Man

Freq Offset
 0.00000000 Hz

Signal Track
 On Off

Scale Type
 Log Lin

Agilent 10:36:22 May 28, 2002



Freq/Channel

Center Freq
 1.25500000 GHz

Start Freq
 10.0000000 MHz

Stop Freq
 2.50000000 GHz

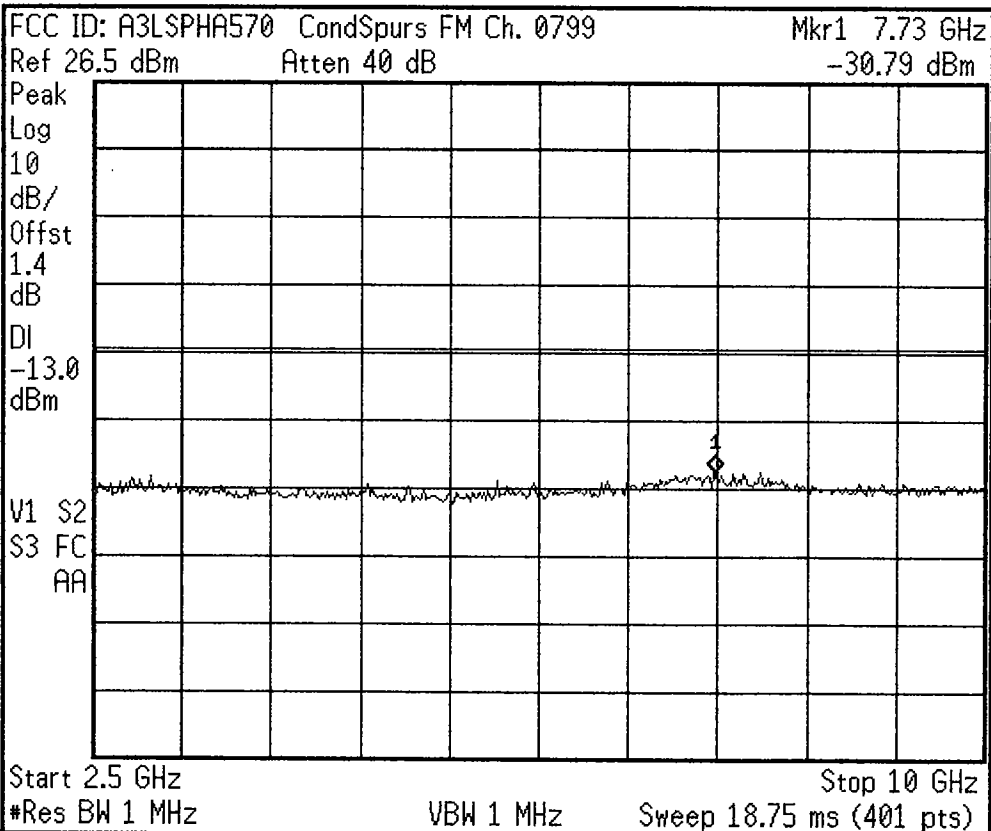
CF Step
 249.000000 MHz
 Auto Man

Freq Offset
 0.00000000 Hz

Signal Track
 On Off

Scale Type
 Log Lin

Agilent 10:37:12 May 28, 2002



Freq/Channel

Center Freq
 6.25000000 GHz

Start Freq
 2.50000000 GHz

Stop Freq
 10.0000000 GHz

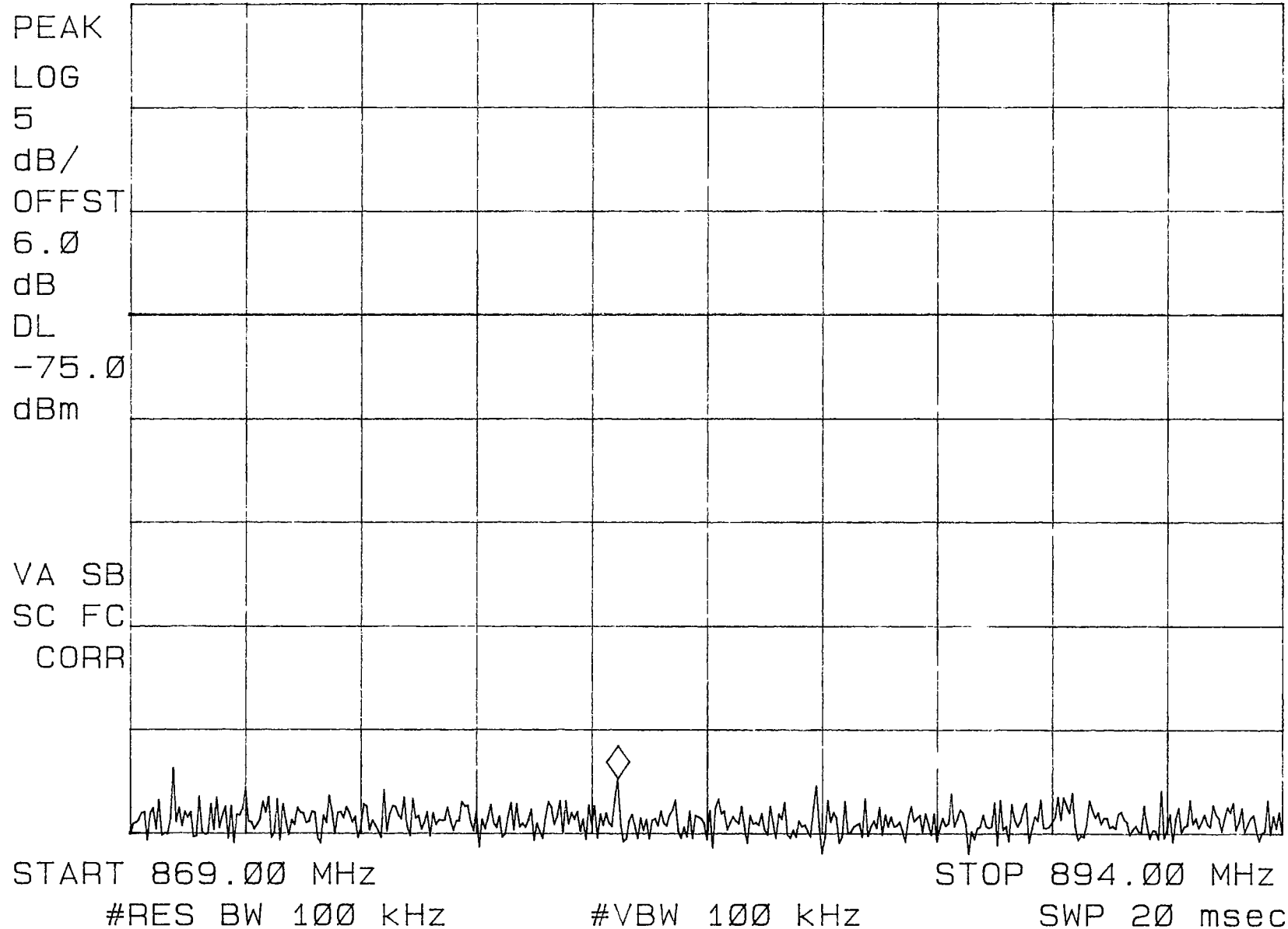
CF Step
 750.000000 MHz
 Auto Man

Freq Offset
 0.00000000 Hz

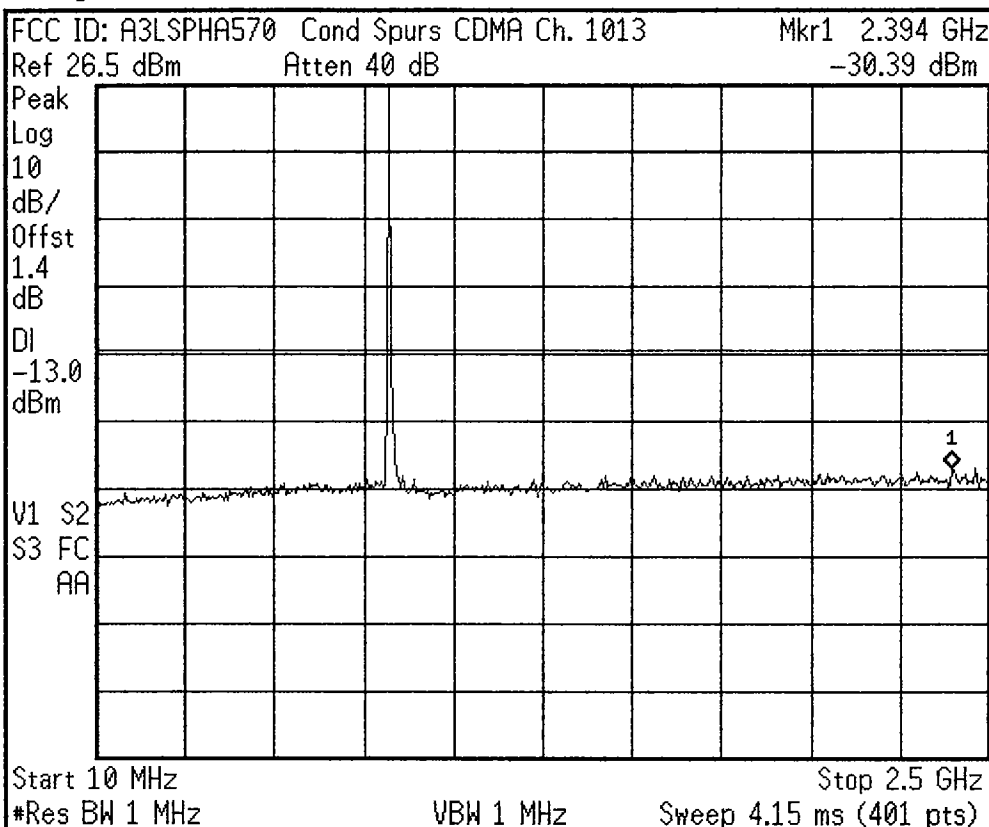
Signal Track
 On Off

Scale Type
 Log Lin

~~/h~~ FCC ID: A3LSCHA570 CDMA MODE MKR 879.56 MHz
REF -60.0 dBm #ATTEN 10 dB PG 25.0 dB -97.35 dBm



* Agilent 10:50:23 May 28, 2002



Freq/Channel

Center Freq
 1.25500000 GHz

Start Freq
 10.0000000 MHz

Stop Freq
 2.50000000 GHz

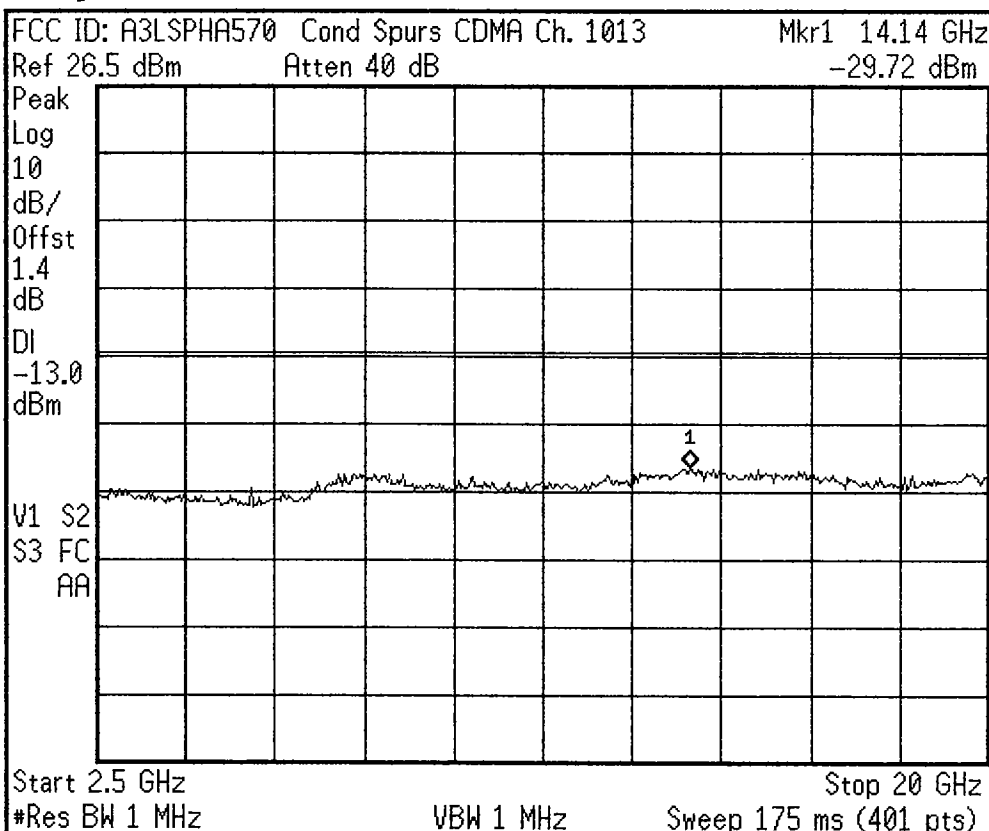
CF Step
 249.000000 MHz
 Auto Man

Freq Offset
 0.00000000 Hz

Signal Track
 On Off

Scale Type
 Log Lin

* Agilent 10:51:00 May 28, 2002



Freq/Channel

Center Freq
 11.2500000 GHz

Start Freq
 2.50000000 GHz

Stop Freq
 20.0000000 GHz

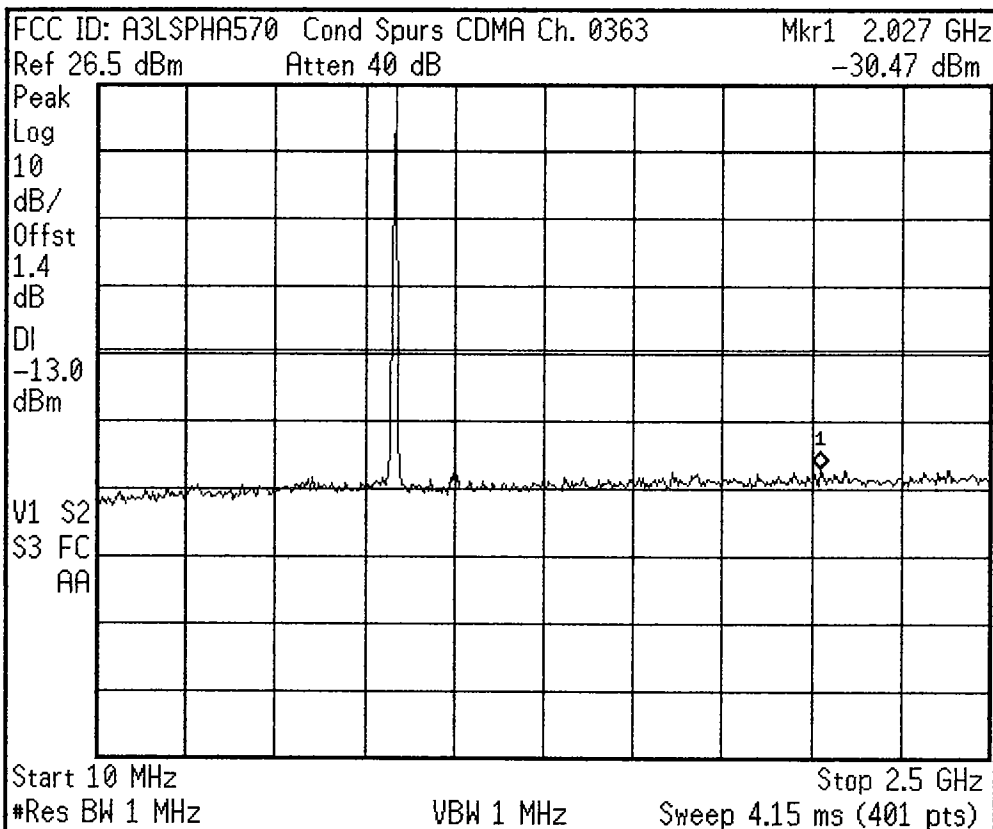
CF Step
 1.75000000 GHz
 Auto Man

Freq Offset
 0.00000000 Hz

Signal Track
 On Off

Scale Type
 Log Lin

* Agilent 10:52:29 May 28, 2002



Freq/Channel

Center Freq
 1.25500000 GHz

Start Freq
 10.0000000 MHz

Stop Freq
 2.50000000 GHz

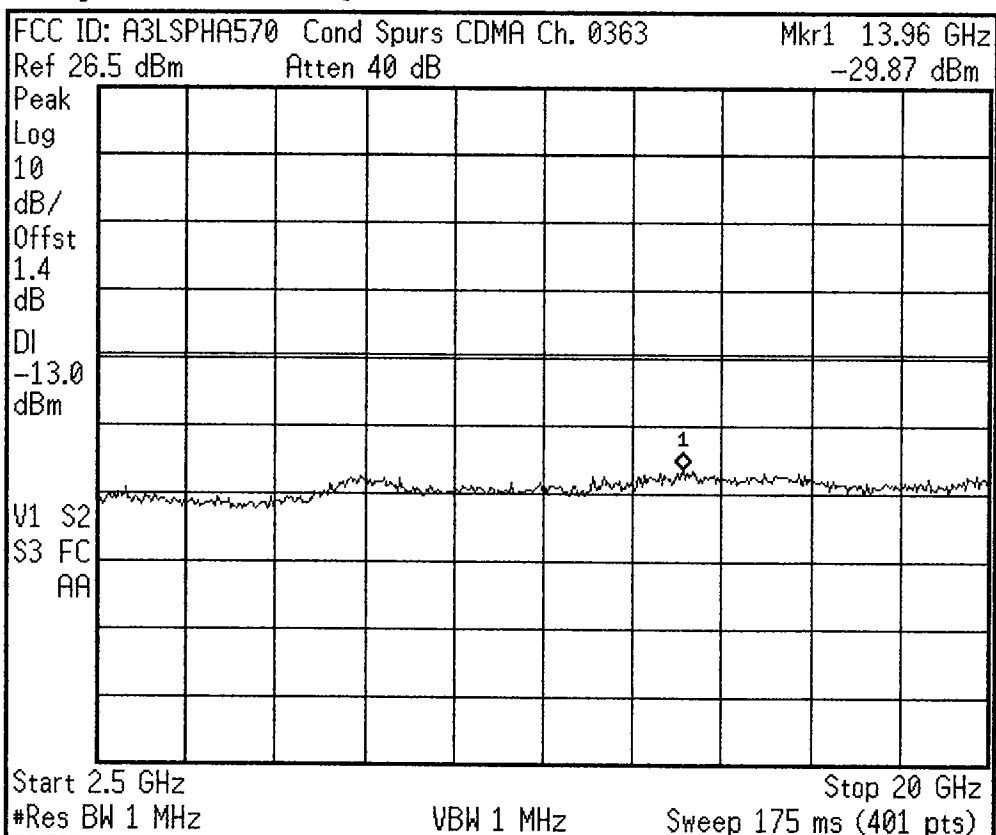
CF Step
 249.000000 MHz
 Auto Man

Freq Offset
 0.00000000 Hz

Signal Track
 On Off

Scale Type
 Log Lin

* Agilent 10:53:17 May 28, 2002



Freq/Channel

Center Freq
 11.2500000 GHz

Start Freq
 2.50000000 GHz

Stop Freq
 20.0000000 GHz

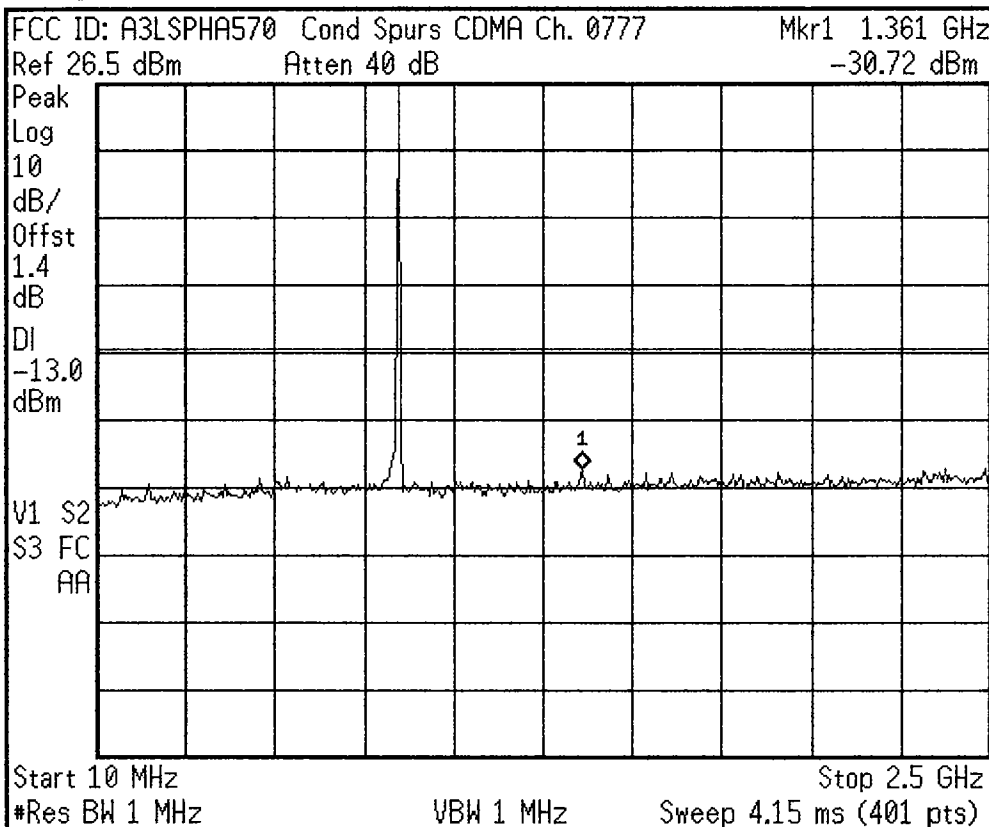
CF Step
 1.75000000 GHz
 Auto Man

Freq Offset
 0.00000000 Hz

Signal Track
 On Off

Scale Type
 Log Lin

* Agilent 10:54:44 May 28, 2002



Freq/Channel

Center Freq
 1.25500000 GHz

Start Freq
 10.0000000 MHz

Stop Freq
 2.50000000 GHz

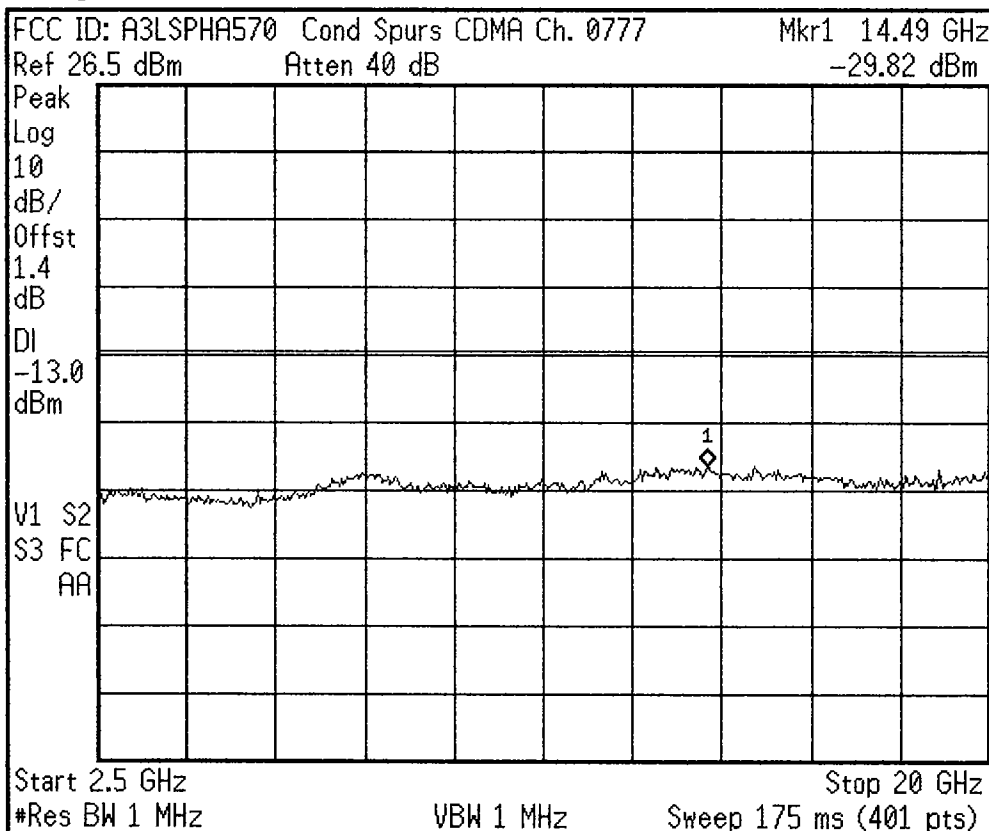
CF Step
 249.000000 MHz
 Auto Man

Freq Offset
 0.00000000 Hz

Signal Track
 On Off

Scale Type
 Log Lin

* Agilent 10:55:30 May 28, 2002



Freq/Channel

Center Freq
 11.2500000 GHz

Start Freq
 2.50000000 GHz

Stop Freq
 20.0000000 GHz

CF Step
 1.75000000 GHz
 Auto Man

Freq Offset
 0.00000000 Hz

Signal Track
 On Off

Scale Type
 Log Lin

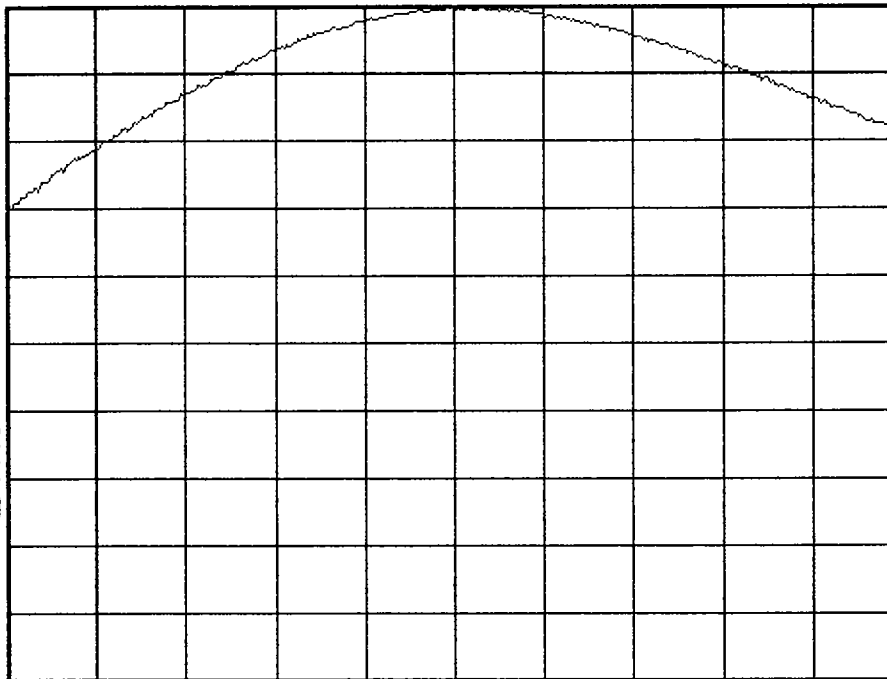
✱ Agilent 13:00:45 May 20, 2002

FCC ID: A3LSPA570 POWER OUT CDMA Ch. 1013

Ref 25 dBm Atten 35 dB

Samp
Log
10
dB/
Offst
1.4
dB

VAvg
100
V1 S2
S3 FC
AA



Center 824.7 MHz

Span 10 MHz

*Res BW 3 MHz

VBW 3 MHz

Sweep 5 ms (401 pts)

Freq/Channel

Center Freq
824.700000 MHz

Start Freq
819.700000 MHz

Stop Freq
829.700000 MHz

CF Step
1.00000000 MHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

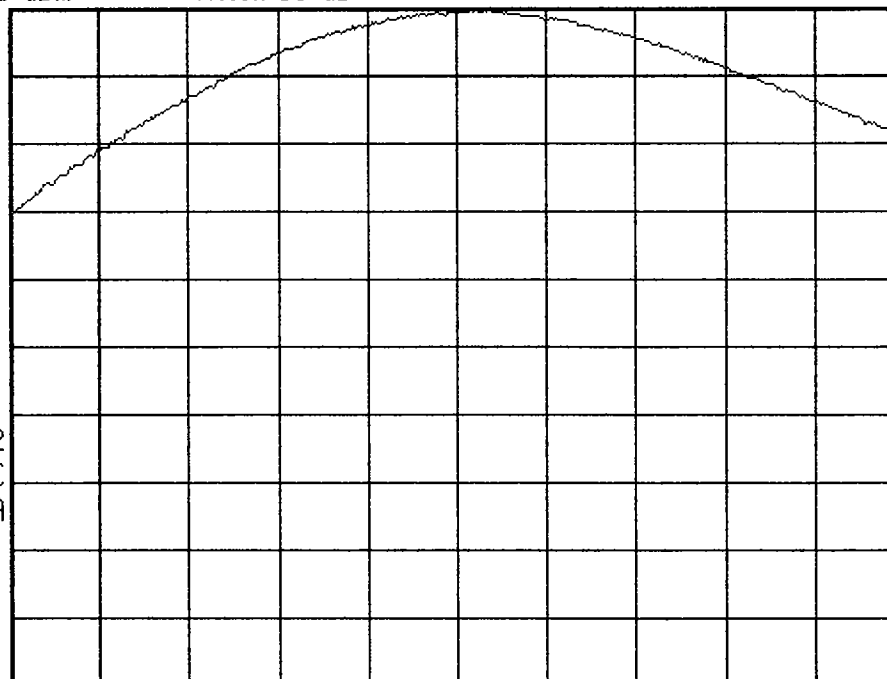
✱ Agilent 13:02:08 May 20, 2002

FCC ID: A3LSPA570 POWER OUT CDMA Ch. 0777

Ref 25 dBm Atten 35 dB

Samp
Log
10
dB/
Offst
1.4
dB

VAvg
100
V1 S2
S3 FC
AA



Center 848.3 MHz

Span 10 MHz

*Res BW 3 MHz

VBW 3 MHz

Sweep 5 ms (401 pts)

Freq/Channel

Center Freq
848.300000 MHz

Start Freq
843.300000 MHz

Stop Freq
853.300000 MHz

CF Step
1.00000000 MHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

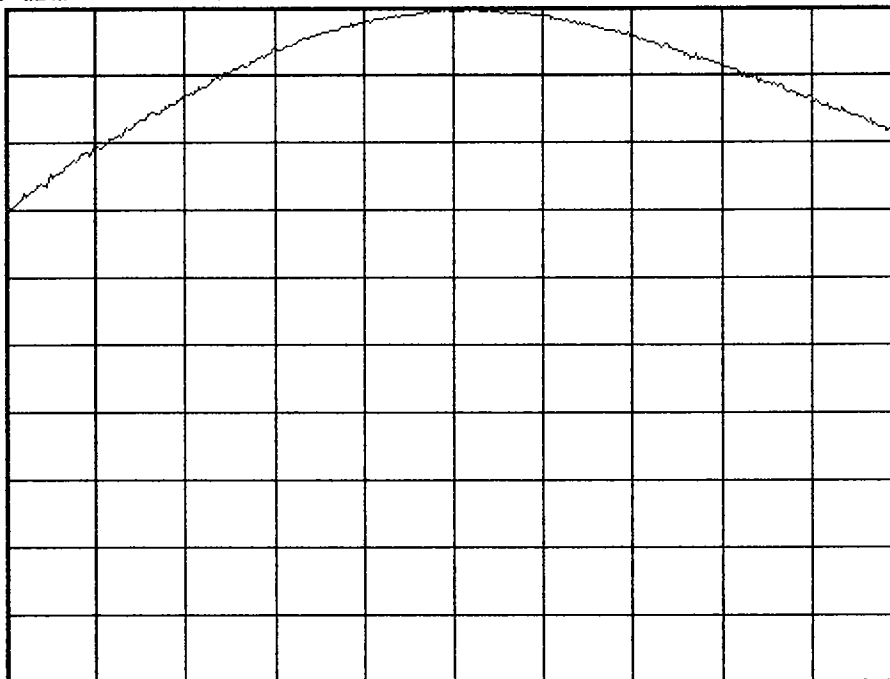
* Agilent 13:06:12 May 20, 2002

FCC ID: A3LSPA570 POWER OUT CDMA Ch. 0363

Ref 25 dBm Atten 35 dB

Samp
Log
10
dB/
Offst
1.4
dB

VAvg
100
V1 S2
S3 FC
AA



Center 835.9 MHz

*Res BW 3 MHz

VBW 3 MHz

Span 10 MHz
Sweep 5 ms (401 pts)

Freq/Channel

Center Freq
835.890000 MHz

Start Freq
830.890000 MHz

Stop Freq
840.890000 MHz

CF Step
1.00000000 MHz
Auto Man

Freq Offset
0.00000000 Hz

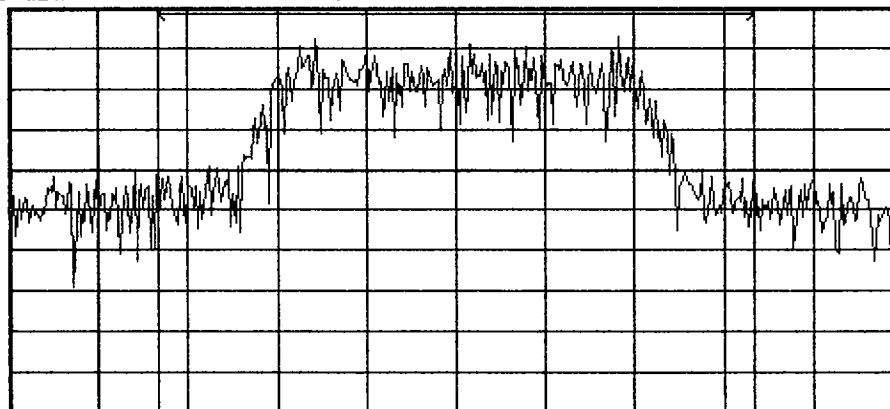
Signal Track
On Off

* Agilent 13:09:27 May 20, 2002

FCC ID: A3LSPA570 POWER OUT CDMA Ch. 0363

Ref 25 dBm Atten 35 dB

Samp
Log
10
dB/
Offst
1.4
dB



Center 835.9 MHz

*Res BW 30 kHz

*VBW 300 kHz

Span 3 MHz
Sweep 9.167 ms (401 pts)

Freq/Channel

Center Freq
835.890000 MHz

Start Freq
834.390000 MHz

Stop Freq
837.390000 MHz

CF Step
300.000000 kHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

Channel Power Results (idle)

Channel Power
25.05 dBm

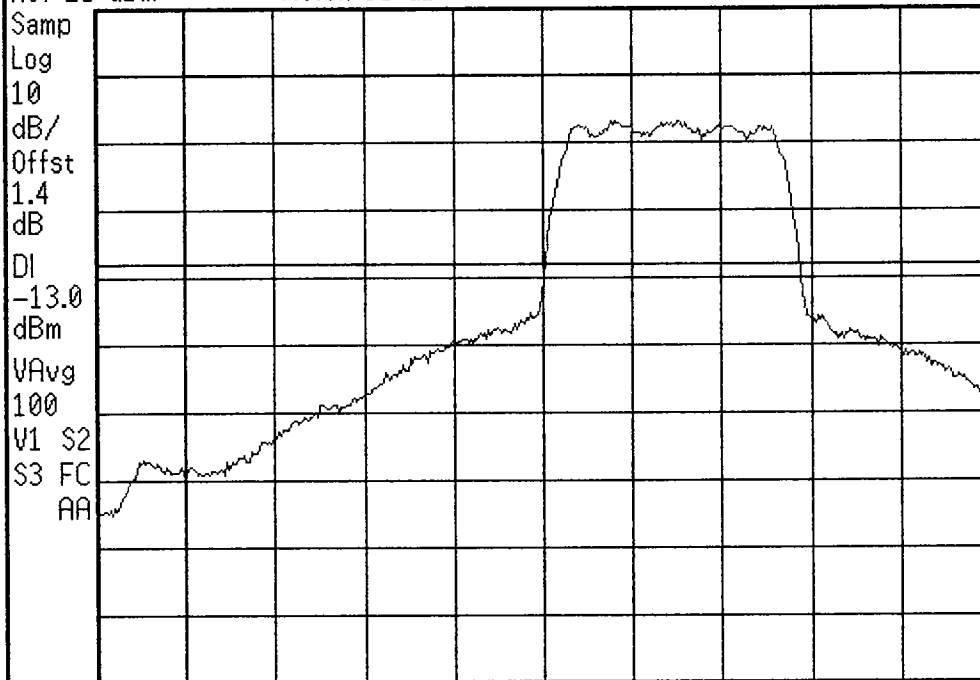
Integration BW 2.000 MHz

Density -37.96 dBm/Hz

✱ Agilent 13:11:56 May 20, 2002

FCC ID: A3LSPA570 BAND EDGE CDMA Ch. 1013

Ref 25 dBm Atten 35 dB



Start 821.5 MHz Stop 826.5 MHz
 #Res BW 30 kHz VBW 30 kHz Sweep 13.89 ms (401 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

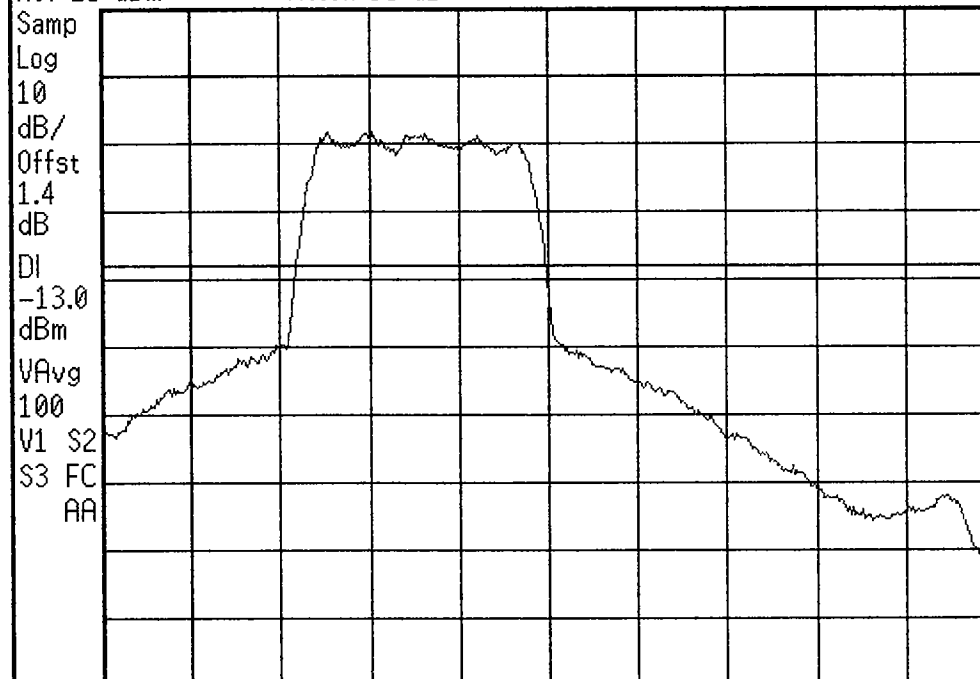
Signal Track

On Off

✱ Agilent 13:14:26 May 20, 2002

FCC ID: A3LSPA570 BAND EDGE CDMA Ch. 0777

Ref 25 dBm Atten 35 dB



Start 846.5 MHz Stop 851.5 MHz
 #Res BW 30 kHz VBW 30 kHz Sweep 13.89 ms (401 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

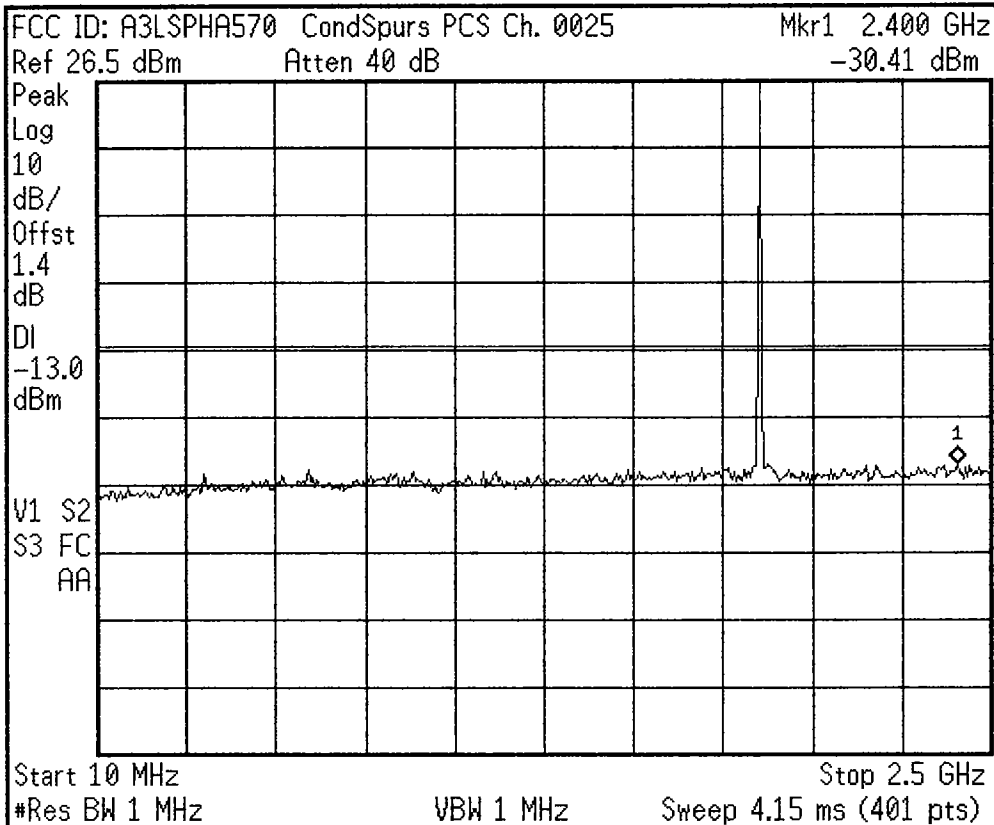
Freq Offset

0.00000000 Hz

Signal Track

On Off

✱ Agilent 10:41:58 May 28, 2002



Freq/Channel

Center Freq
 1.25500000 GHz

Start Freq
 10.0000000 MHz

Stop Freq
 2.50000000 GHz

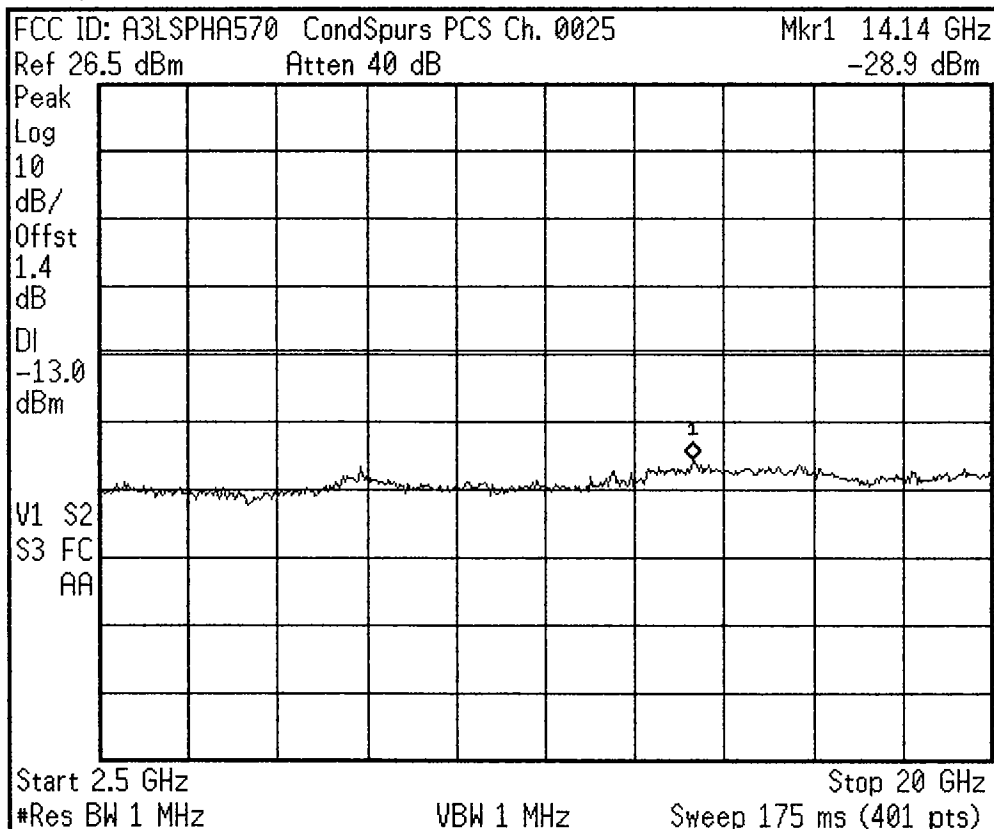
CF Step
 249.000000 MHz
 Auto Man

Freq Offset
 0.00000000 Hz

Signal Track
 On Off

Scale Type
 Log Lin

✱ Agilent 10:43:05 May 28, 2002



Freq/Channel

Center Freq
 11.2500000 GHz

Start Freq
 2.50000000 GHz

Stop Freq
 20.0000000 GHz

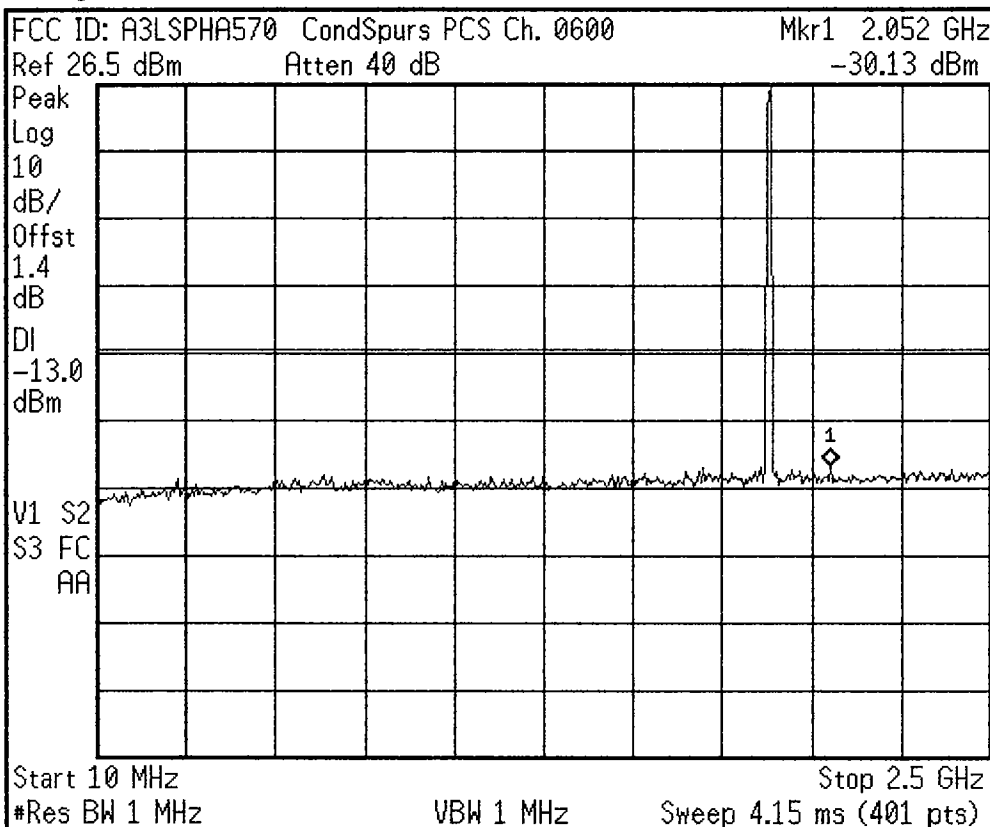
CF Step
 1.75000000 GHz
 Auto Man

Freq Offset
 0.00000000 Hz

Signal Track
 On Off

Scale Type
 Log Lin

✱ Agilent 10:44:13 May 28, 2002



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

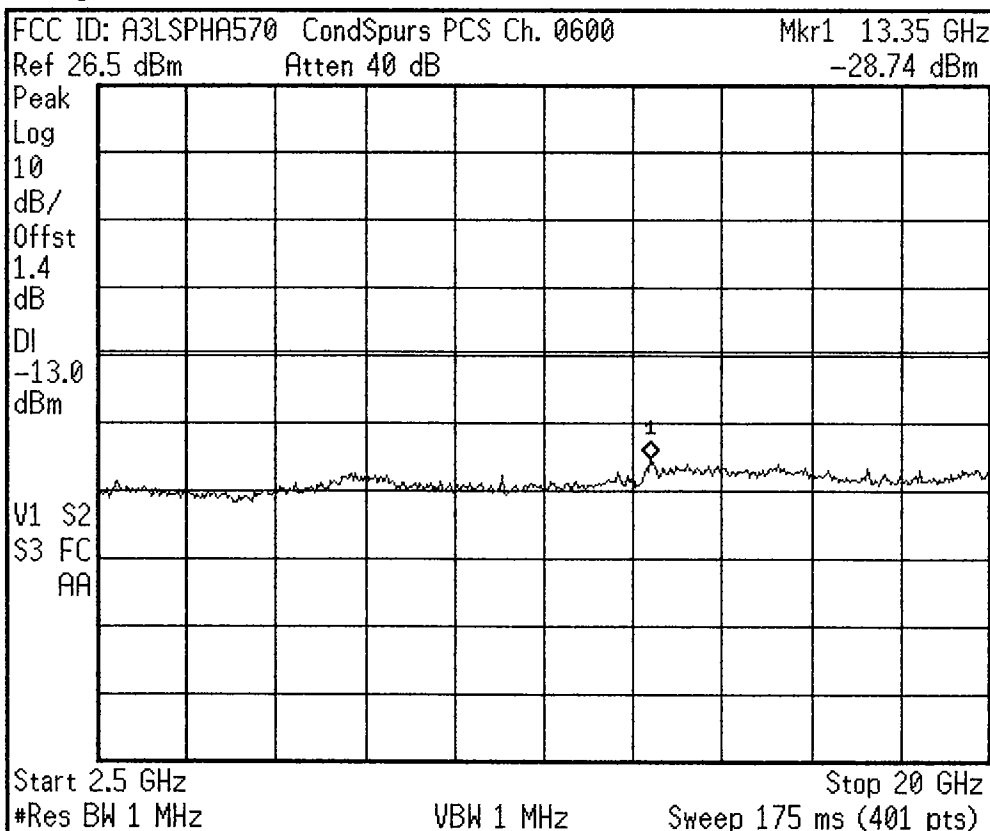
Signal Track

On Off

Scale Type

Log Lin

✱ Agilent 10:44:52 May 28, 2002



Freq/Channel

Center Freq

11.2500000 GHz

Start Freq

2.50000000 GHz

Stop Freq

20.0000000 GHz

CF Step

1.75000000 GHz

Auto Man

Freq Offset

0.00000000 Hz

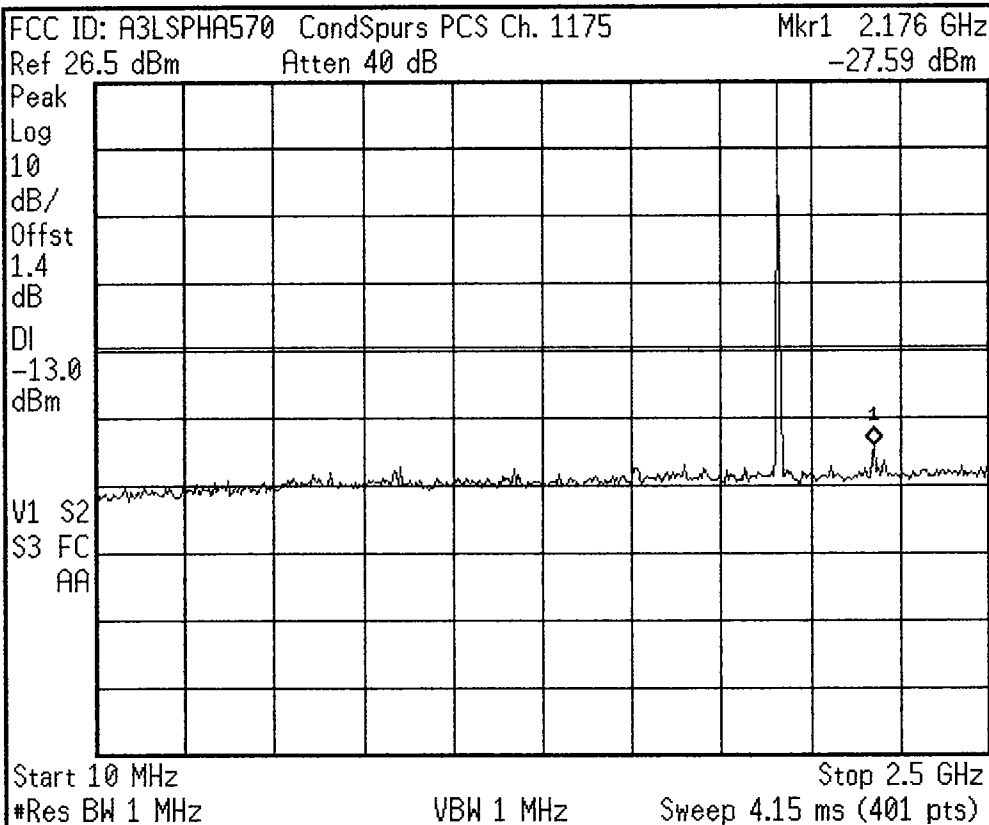
Signal Track

On Off

Scale Type

Log Lin

✱ Agilent 10:45:50 May 28, 2002



Freq/Channel

Center Freq
 1.2500000 GHz

Start Freq
 10.0000000 MHz

Stop Freq
 2.5000000 GHz

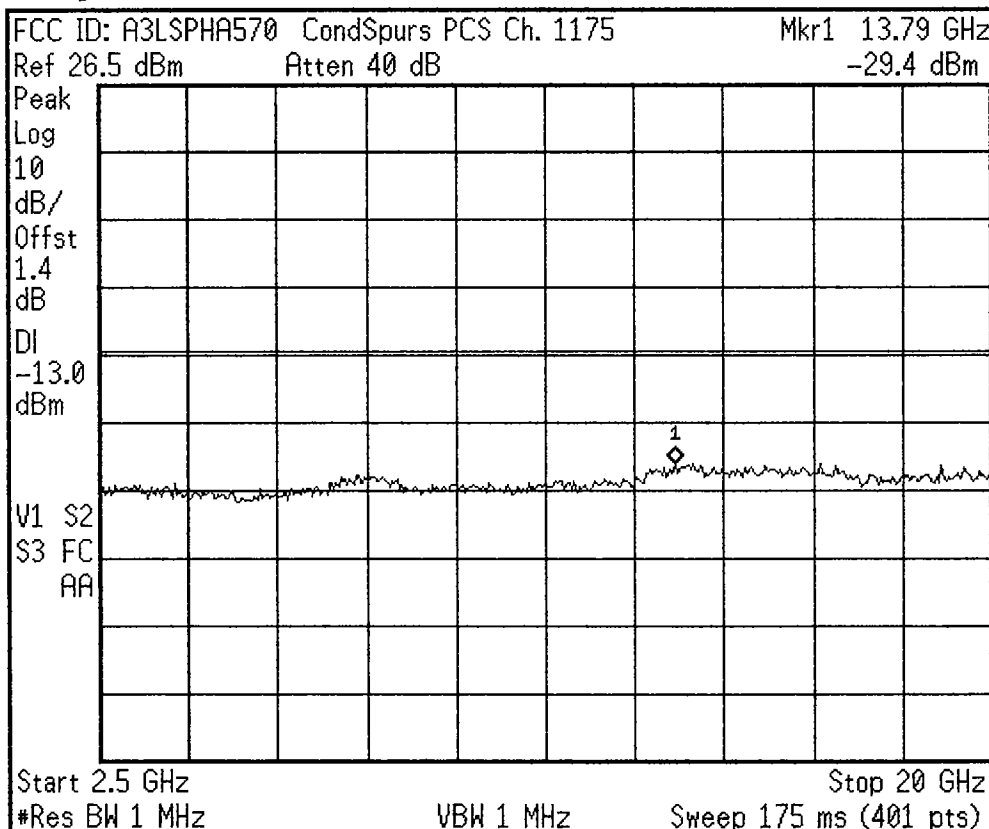
CF Step
 249.000000 MHz
 Auto Man

Freq Offset
 0.0000000 Hz

Signal Track
 On Off

Scale Type
 Log Lin

✱ Agilent 10:46:38 May 28, 2002



Freq/Channel

Center Freq
 11.2500000 GHz

Start Freq
 2.5000000 GHz

Stop Freq
 20.0000000 GHz

CF Step
 1.7500000 GHz
 Auto Man

Freq Offset
 0.0000000 Hz

Signal Track
 On Off

Scale Type
 Log Lin

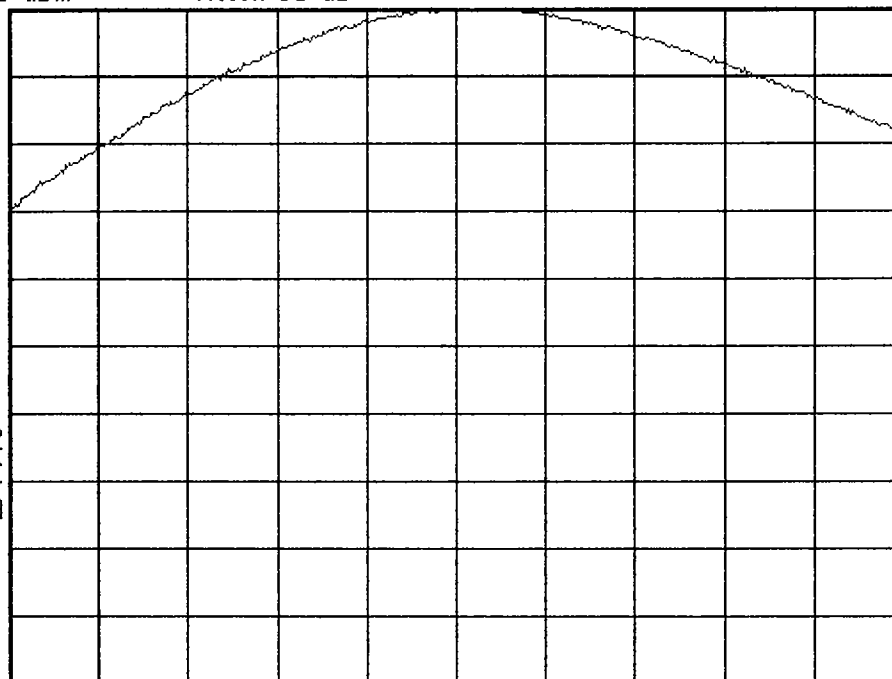
* Agilent 13:34:22 May 20, 2002

FCC ID: A3LSPHA570 POWER OUT PCS Ch. 0600

Ref 25 dBm Atten 35 dB

Samp
Log
10
dB/
Offst
2.3
dB

VAvg
100
V1 S2
S3 FC
AA



Center 1.88 GHz

*Res BW 3 MHz

VBW 3 MHz

Span 10 MHz
Sweep 5 ms (401 pts)

Freq/Channel

Center Freq

1.88000000 GHz

Start Freq

1.87500000 GHz

Stop Freq

1.88500000 GHz

CF Step

1.00000000 MHz

Auto

Man

Freq Offset

0.00000000 Hz

Signal Track

On

Off

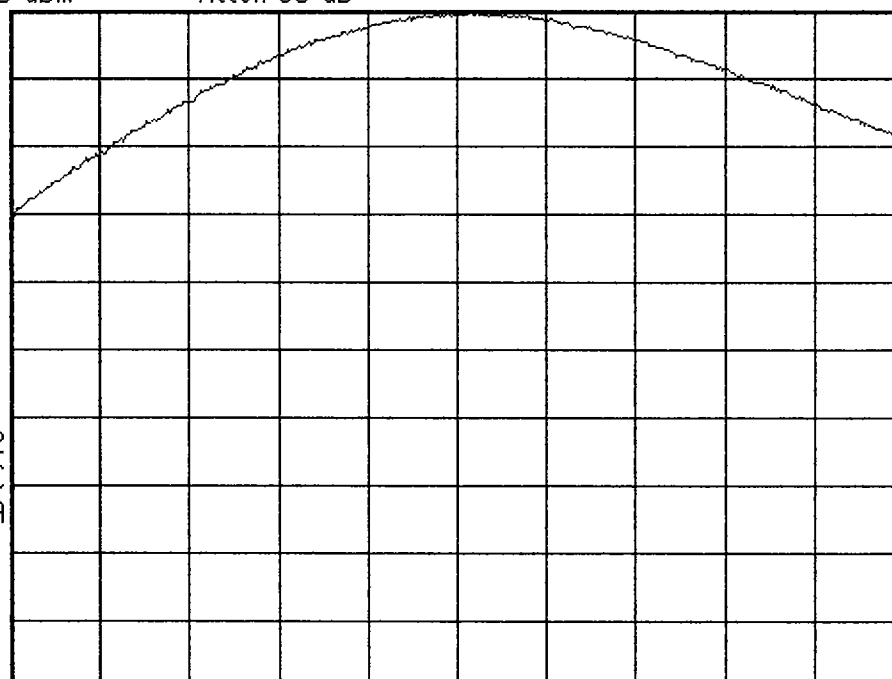
* Agilent 13:36:47 May 20, 2002

FCC ID: A3LSPHA570 POWER OUT PCS Ch. 1175

Ref 25 dBm Atten 35 dB

Samp
Log
10
dB/
Offst
2.3
dB

VAvg
100
V1 S2
S3 FC
AA



Center 1.909 GHz

*Res BW 3 MHz

VBW 3 MHz

Span 10 MHz
Sweep 5 ms (401 pts)

Freq/Channel

Center Freq

1.90875000 GHz

Start Freq

1.90375000 GHz

Stop Freq

1.91375000 GHz

CF Step

1.00000000 MHz

Auto

Man

Freq Offset

0.00000000 Hz

Signal Track

On

Off

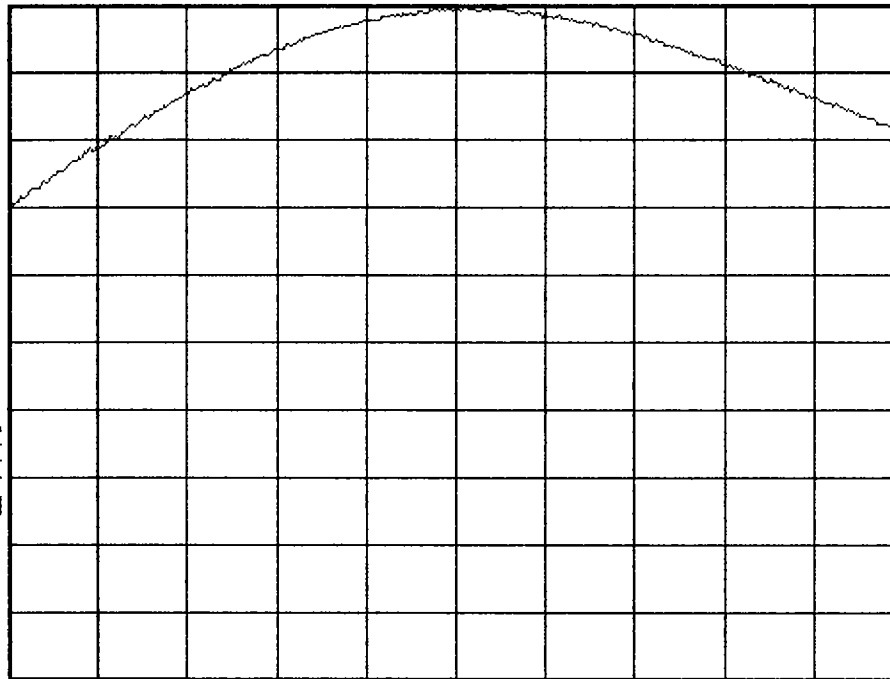
✱ Agilent 13:31:36 May 20, 2002

FCC ID: A3LSPA570 POWER OUT PCS Ch. 0025

Ref 25 dBm Atten 35 dB

Samp
Log
10
dB/
Offst
2.3
dB

VAvg
100
V1 S2
S3 FC
AA



Center 1.851 GHz

*Res BW 3 MHz

VBW 3 MHz

Span 10 MHz
Sweep 5 ms (401 pts)

Freq/Channel

Center Freq
1.85125000 GHz

Start Freq
1.84625000 GHz

Stop Freq
1.85625000 GHz

CF Step
1.00000000 MHz
Auto Man

Freq Offset
0.00000000 Hz

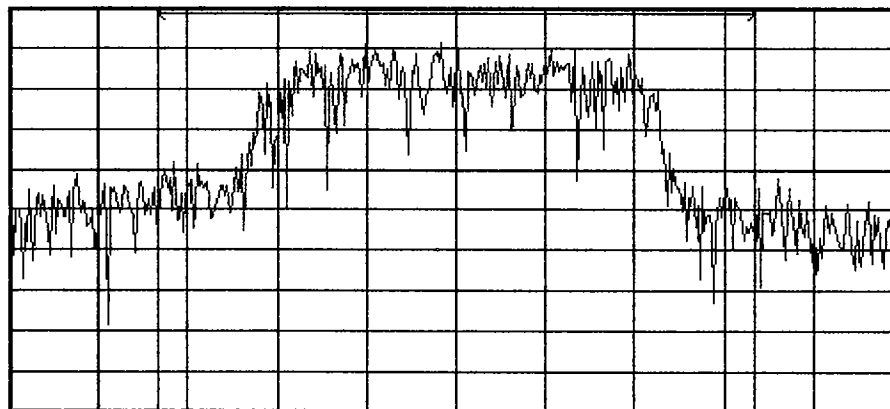
Signal Track
On Off

✱ Agilent 13:33:00 May 20, 2002

FCC ID: A3LSPA570 POWER OUT PCS Ch. 0025

Ref 25 dBm Atten 35 dB

Samp
Log
10
dB/
Offst
2.3
dB



Center 1.851 GHz

*Res BW 30 kHz

*VBW 300 kHz

Span 3 MHz
Sweep 9.167 ms (401 pts)

Freq/Channel

Center Freq
1.85125000 GHz

Start Freq
1.84975000 GHz

Stop Freq
1.85275000 GHz

CF Step
300.000000 kHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

Channel Power Results (idle)

Channel Power

25.01 dBm

Integration BW 2.000 MHz

Density -38.00 dBm/Hz

* Agilent 13:38:42 May 20, 2002

FCC ID: A3LSPA570 BAND EDGE PCS Ch. 0025

Ref 25 dBm Atten 35 dB

Samp

Log

10

dB/

Offst

2.3

dB

DI

-13.0

dBm

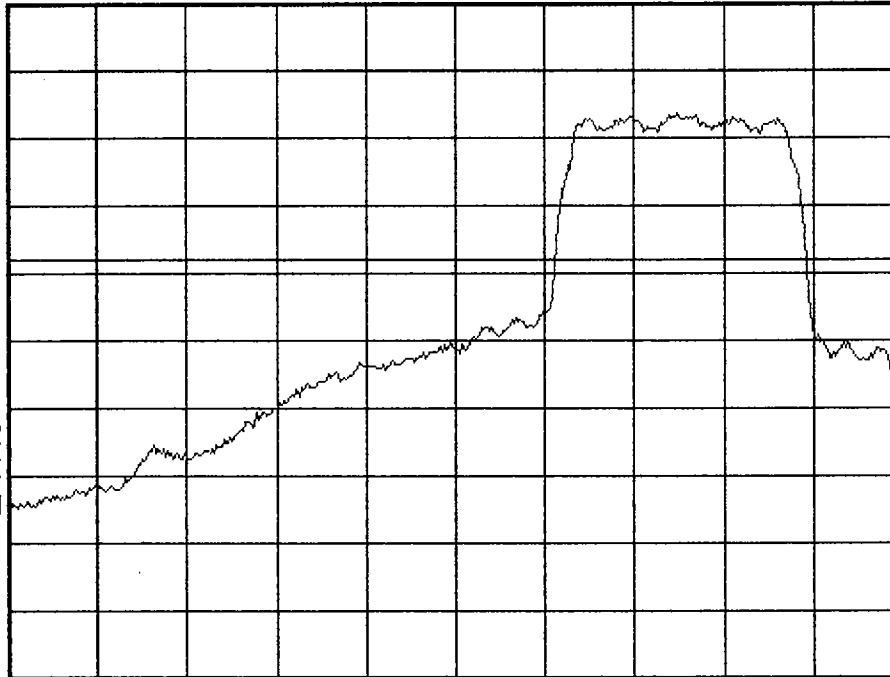
VAvg

100

V1 S2

S3 FC

AA



Center 1.85 GHz

Span 5 MHz

*Res BW 30 kHz

VBW 30 kHz

Sweep 13.89 ms (401 pts)

Freq/Channel

Center Freq

1.85000000 GHz

Start Freq

1.84750000 GHz

Stop Freq

1.85250000 GHz

CF Step

500.000000 kHz

Auto

Man

Freq Offset

0.00000000 Hz

Signal Track

On

Off

* Agilent 13:39:39 May 20, 2002

FCC ID: A3LSPA570 BAND EDGE PCS Ch. 1175

Ref 25 dBm Atten 35 dB

Samp

Log

10

dB/

Offst

2.3

dB

DI

-13.0

dBm

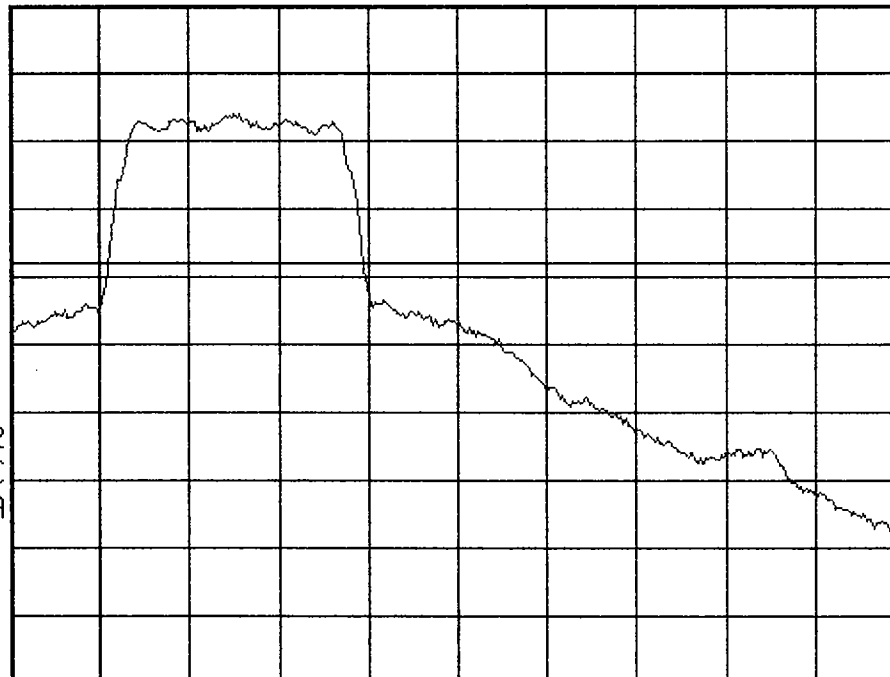
VAvg

100

V1 S2

S3 FC

AA



Center 1.91 GHz

Span 5 MHz

*Res BW 30 kHz

VBW 30 kHz

Sweep 13.89 ms (401 pts)

Freq/Channel

Center Freq

1.91000000 GHz

Start Freq

1.90750000 GHz

Stop Freq

1.91250000 GHz

CF Step

500.000000 kHz

Auto

Man

Freq Offset

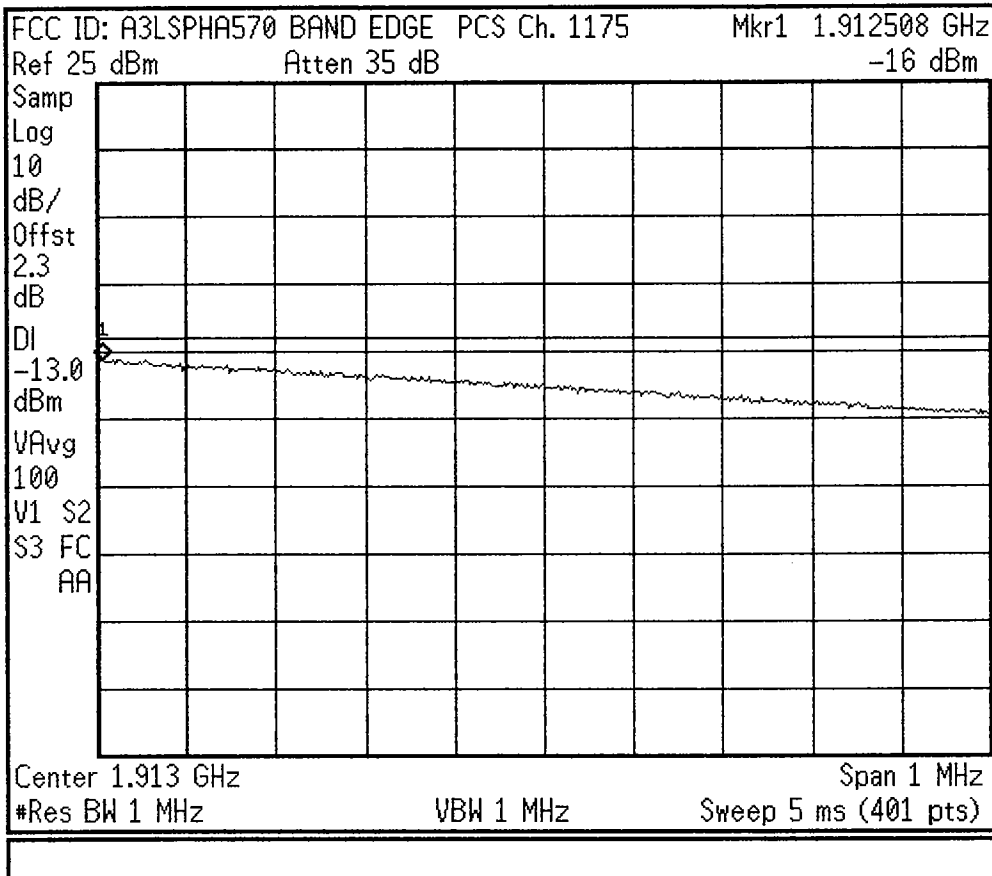
0.00000000 Hz

Signal Track

On

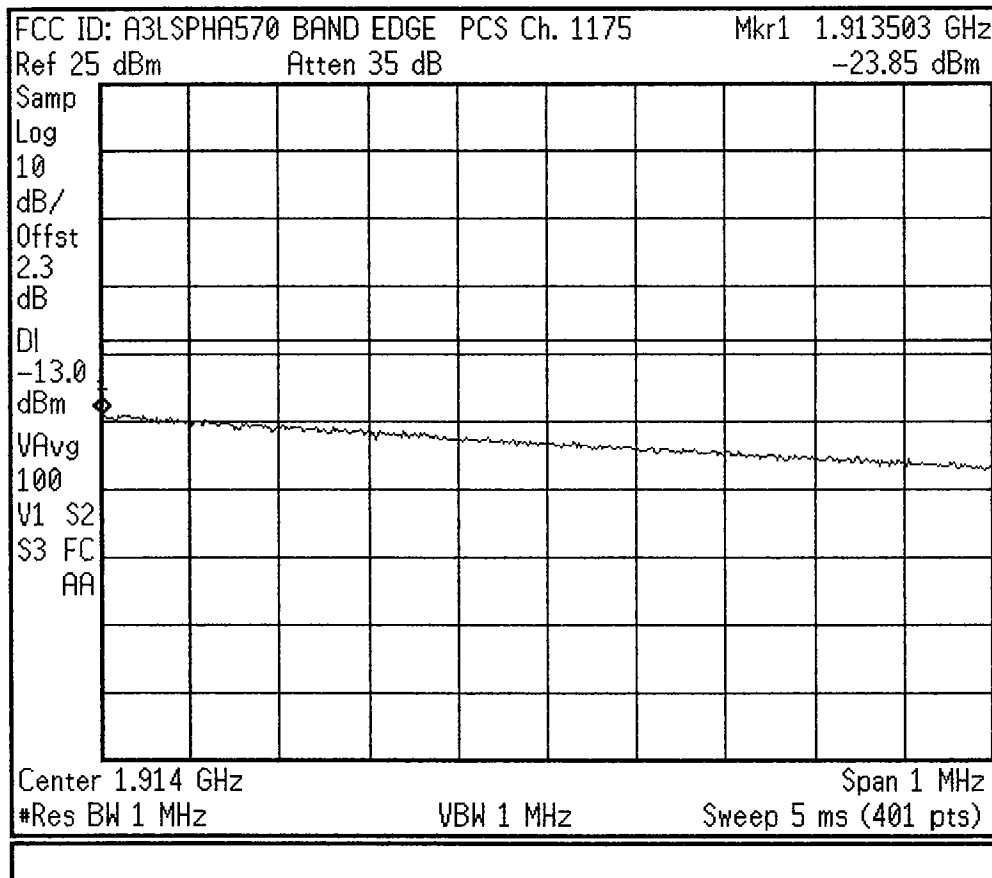
Off

Agilent 13:43:59 May 20, 2002



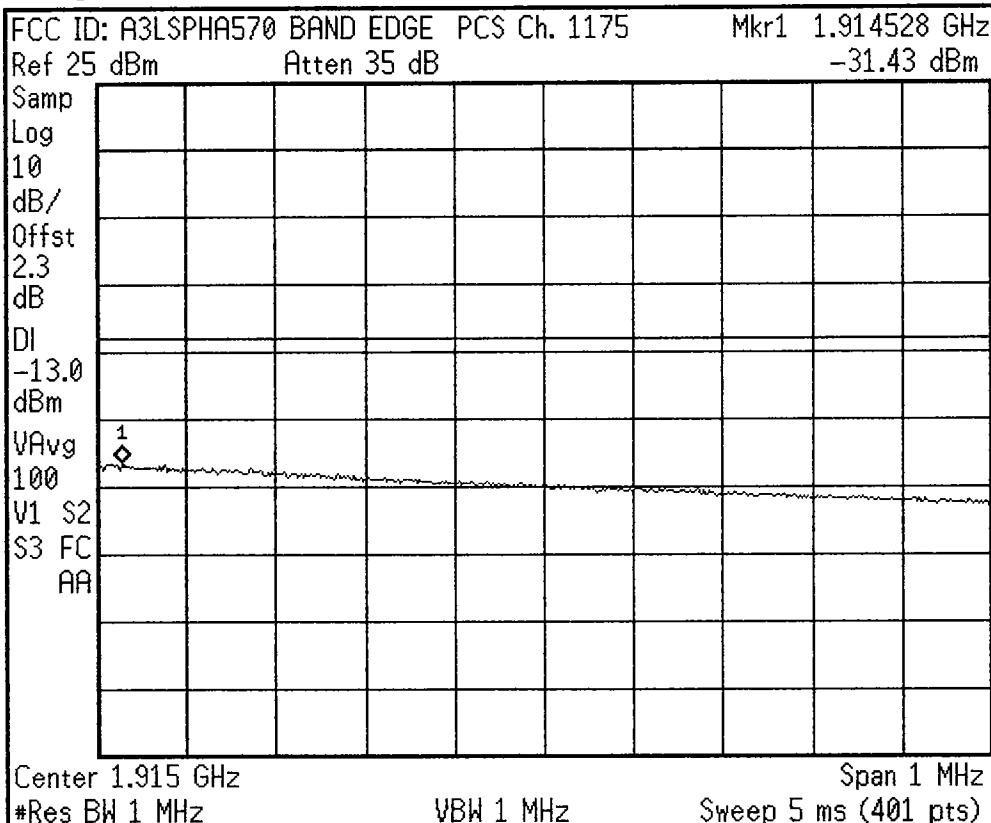
Freq/Channel
Center Freq 1.91300000 GHz
Start Freq 1.91250000 GHz
Stop Freq 1.91350000 GHz
CF Step 100.000000 kHz Auto Man
Freq Offset 0.00000000 Hz
Signal Track On Off

Agilent 13:44:29 May 20, 2002



Freq/Channel
Center Freq 1.91400000 GHz
Start Freq 1.91350000 GHz
Stop Freq 1.91450000 GHz
CF Step 100.000000 kHz Auto Man
Freq Offset 0.00000000 Hz
Signal Track On Off

Agilent 13:45:11 May 20, 2002



Freq/Channel

Center Freq
 1.91500000 GHz

Start Freq
 1.91450000 GHz

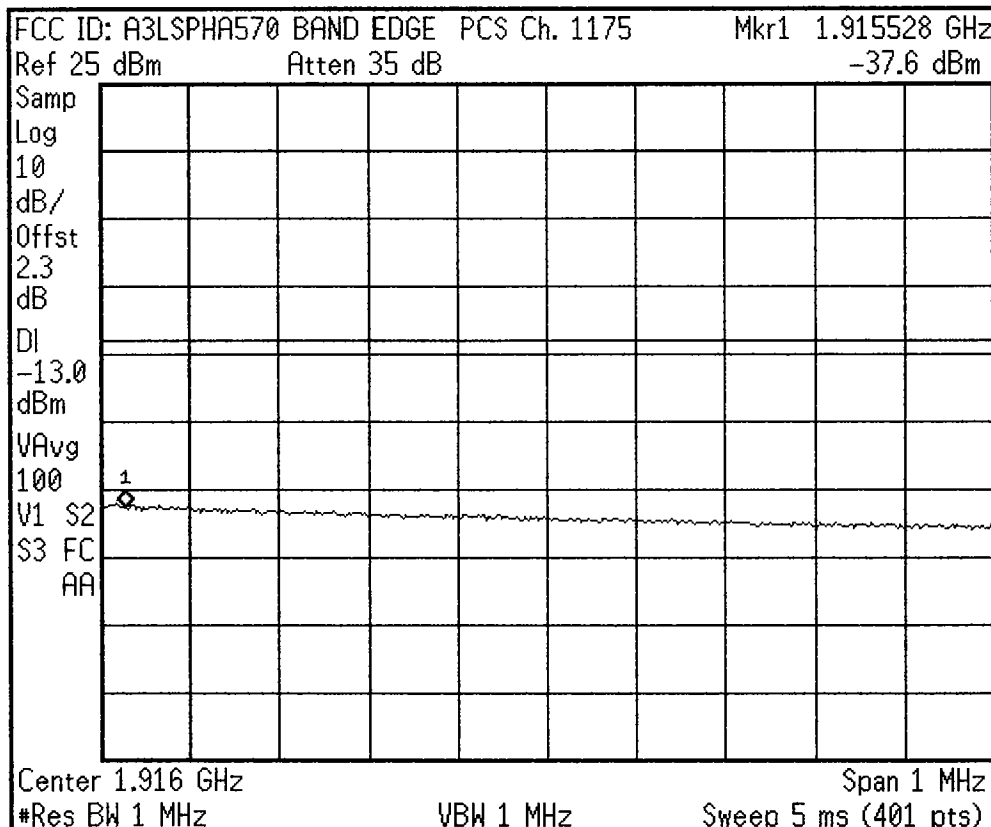
Stop Freq
 1.91550000 GHz

CF Step
 100.000000 kHz
 Auto Man

Freq Offset
 0.00000000 Hz

Signal Track
 On Off

Agilent 13:46:10 May 20, 2002



Freq/Channel

Center Freq
 1.91600000 GHz

Start Freq
 1.91550000 GHz

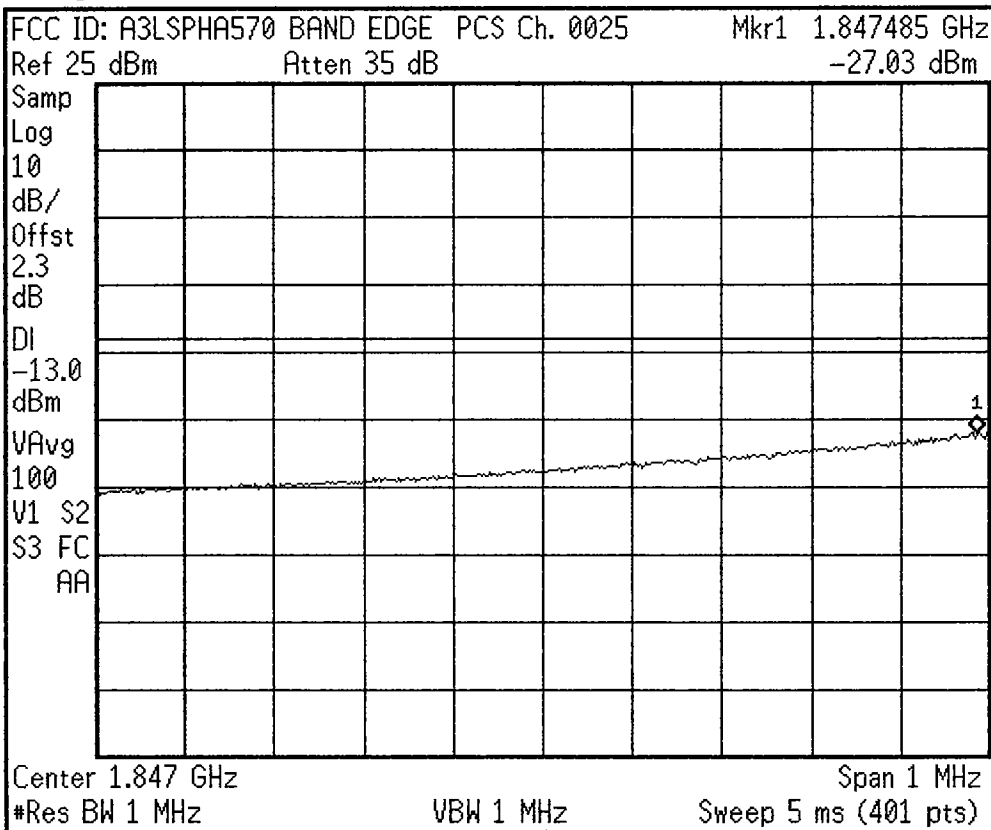
Stop Freq
 1.91650000 GHz

CF Step
 100.000000 kHz
 Auto Man

Freq Offset
 0.00000000 Hz

Signal Track
 On Off

* Agilent 13:50:29 May 20, 2002



Freq/Channel

Center Freq
 1.84700000 GHz

Start Freq
 1.84650000 GHz

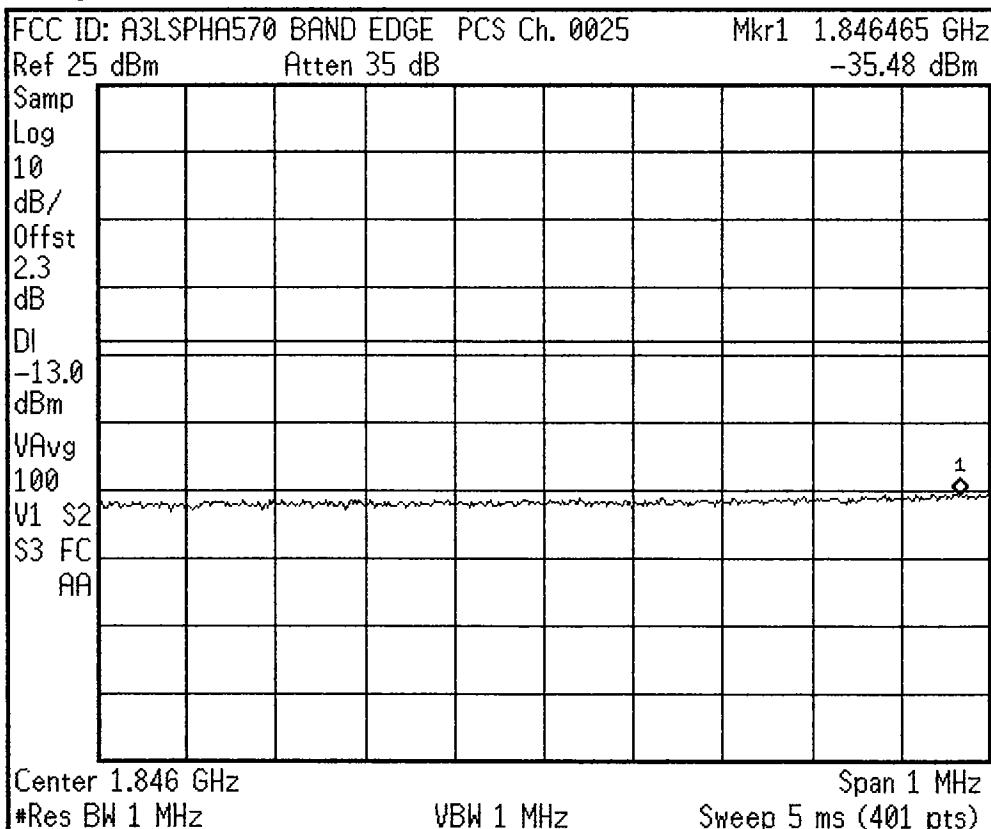
Stop Freq
 1.84750000 GHz

CF Step
 100.000000 kHz
 Auto Man

Freq Offset
 0.00000000 Hz

Signal Track
 On Off

* Agilent 13:51:22 May 20, 2002



Freq/Channel

Center Freq
 1.84600000 GHz

Start Freq
 1.84550000 GHz

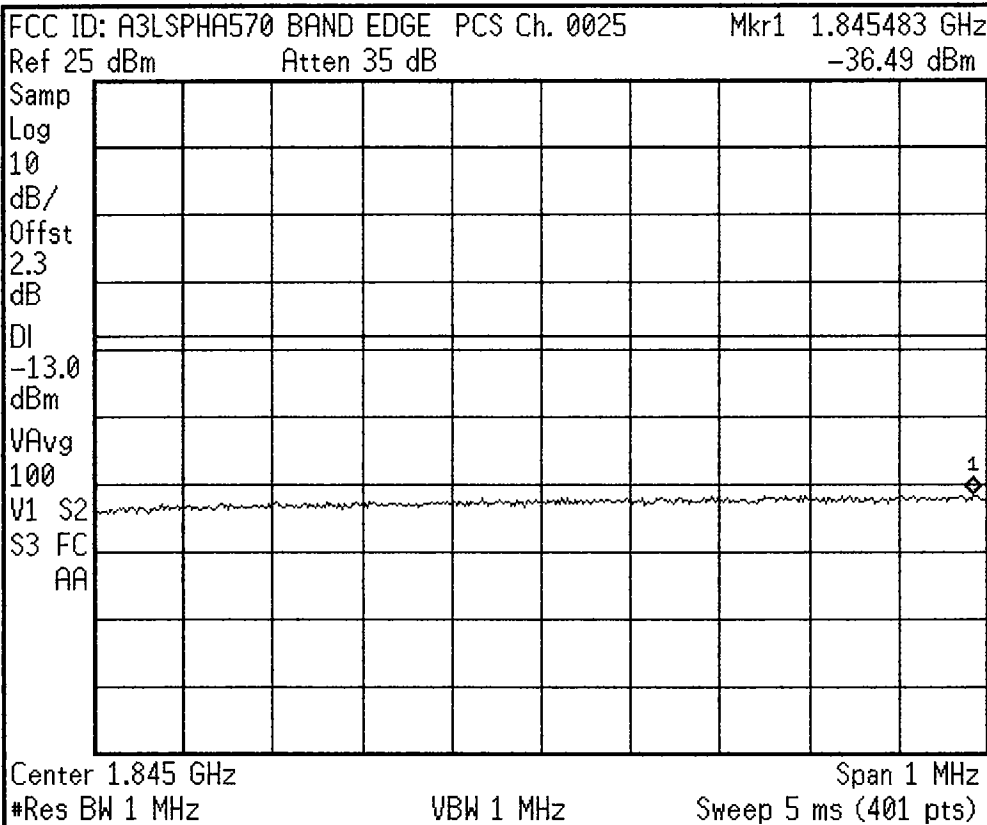
Stop Freq
 1.84650000 GHz

CF Step
 100.000000 kHz
 Auto Man

Freq Offset
 0.00000000 Hz

Signal Track
 On Off

* Agilent 13:52:02 May 20, 2002



Freq/Channel

Center Freq
 1.84500000 GHz

Start Freq
 1.84450000 GHz

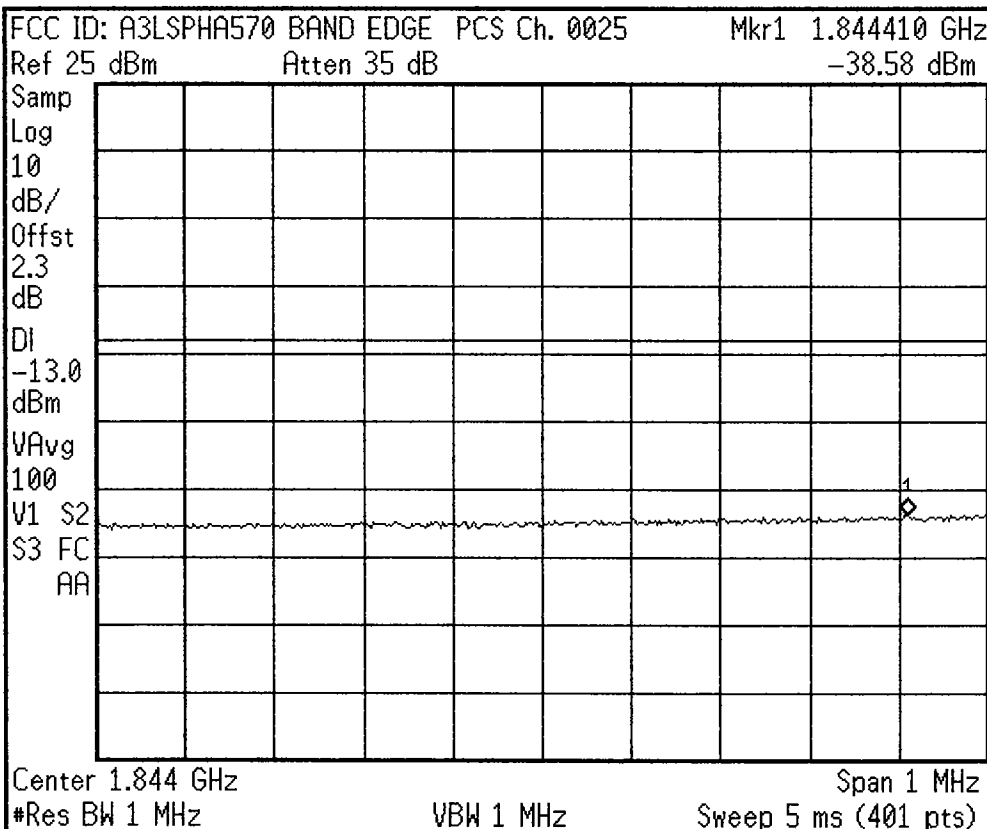
Stop Freq
 1.84550000 GHz

CF Step
 100.000000 kHz
 Auto Man

Freq Offset
 0.00000000 Hz

Signal Track
 On Off

* Agilent 13:52:46 May 20, 2002



Freq/Channel

Center Freq
 1.84400000 GHz

Start Freq
 1.84350000 GHz

Stop Freq
 1.84450000 GHz

CF Step
 100.000000 kHz
 Auto Man

Freq Offset
 0.00000000 Hz

Signal Track
 On Off

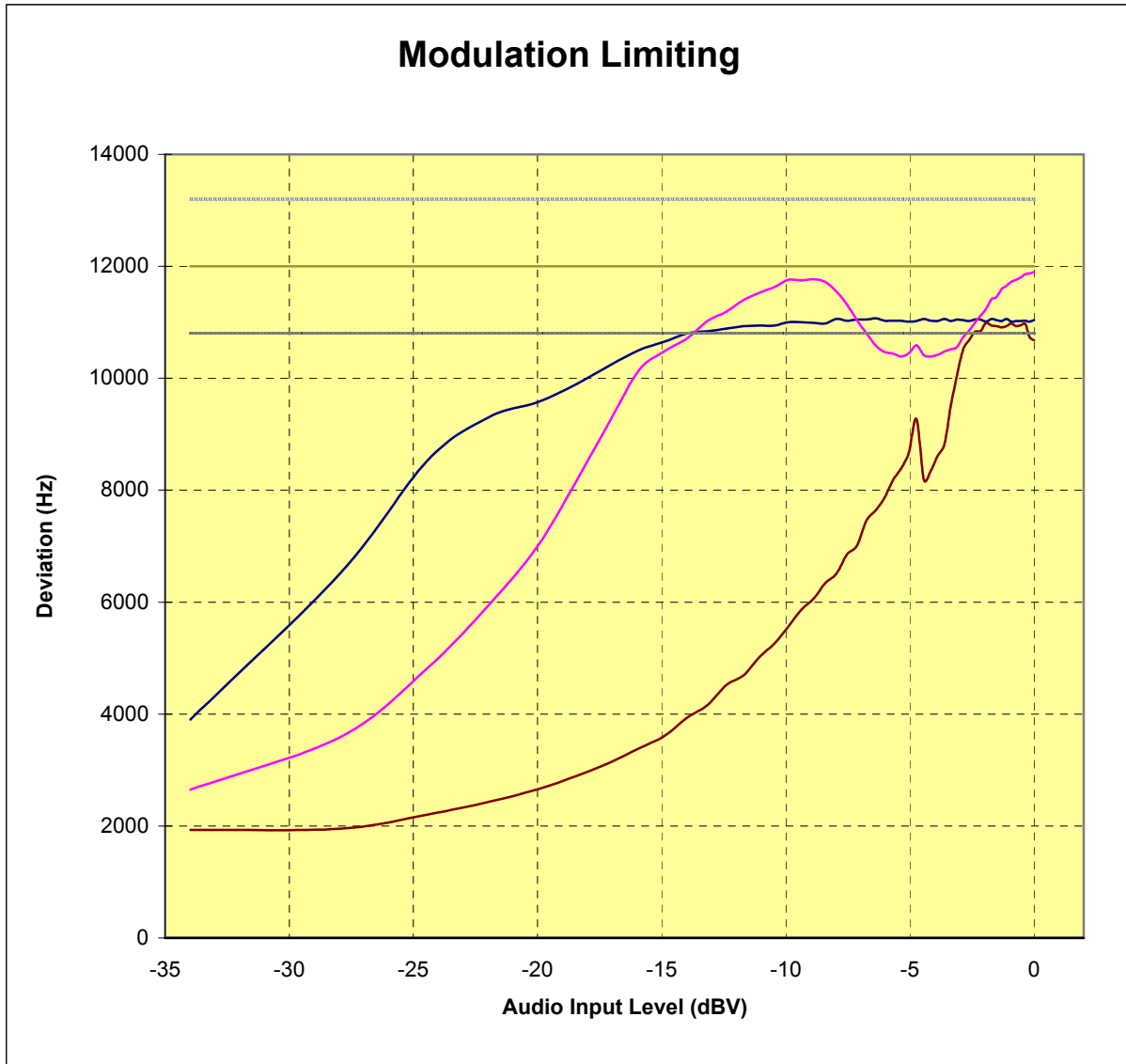
PCTEST Engineering Lab., Inc.

SUBJECT: Modulation Characteristics
FCC Part 24/22

Test Report No.: 22/24.220520252.A3L
Test Date: 05.20.2002

EUT: SAMSUNG Tri-Mode Dual-Band Analog/PCS Phone (AMPS/CDMA)
Model: SPH-A570
FCC ID: A3LSPHA570

REFERENCE: 1 kHz = 0 dB



SAMSUNG Tri-Mode Dual-Band Analog/PCS Phone (AMPS/CDMA)
FCC ID: A3LSPHA570

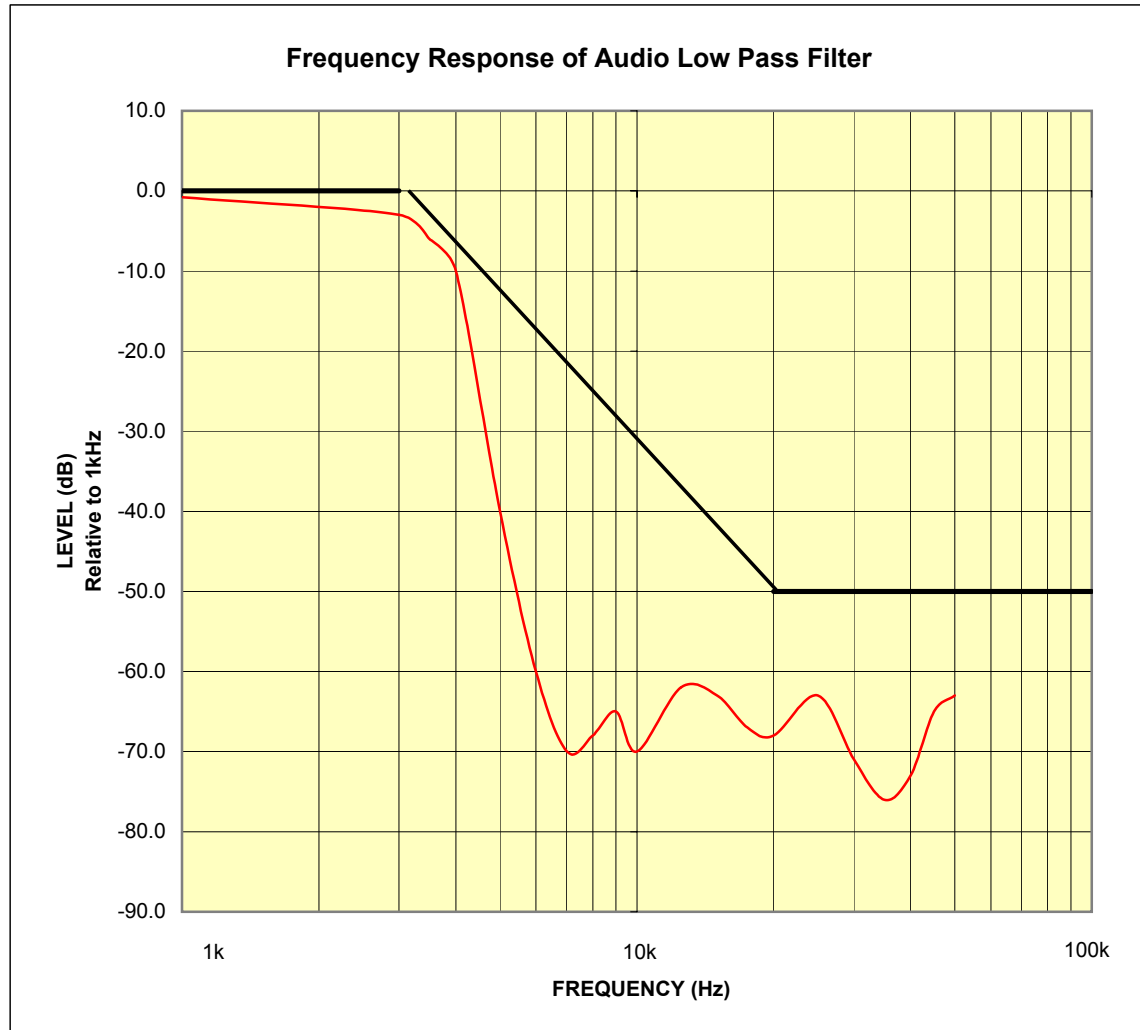
PCTEST Engineering Lab., Inc.

SUBJECT: Modulation Characteristics
FCC Part 24/22

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SAMSUNG Tri-Mode Dual-Band Analog/PCS Phone (AMPS/CDMA)
FCC ID: A3LSPHA570

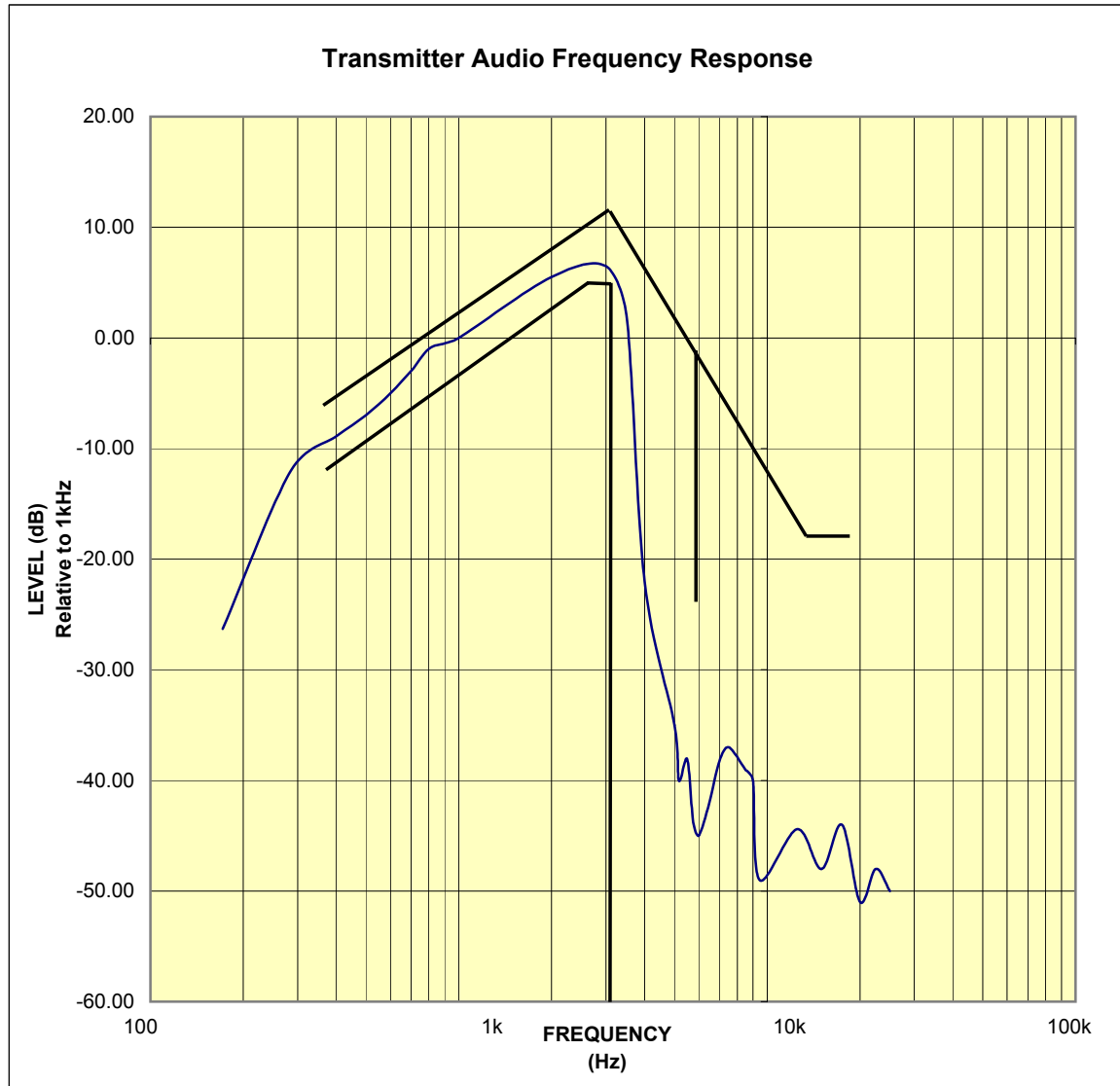
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SAMSUNG Tri-Mode Dual-Band Analog/PCS Phone (AMPS/CDMA)
FCC ID: A3LSPHA570