

PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:LXC-FD0200

DENSO International

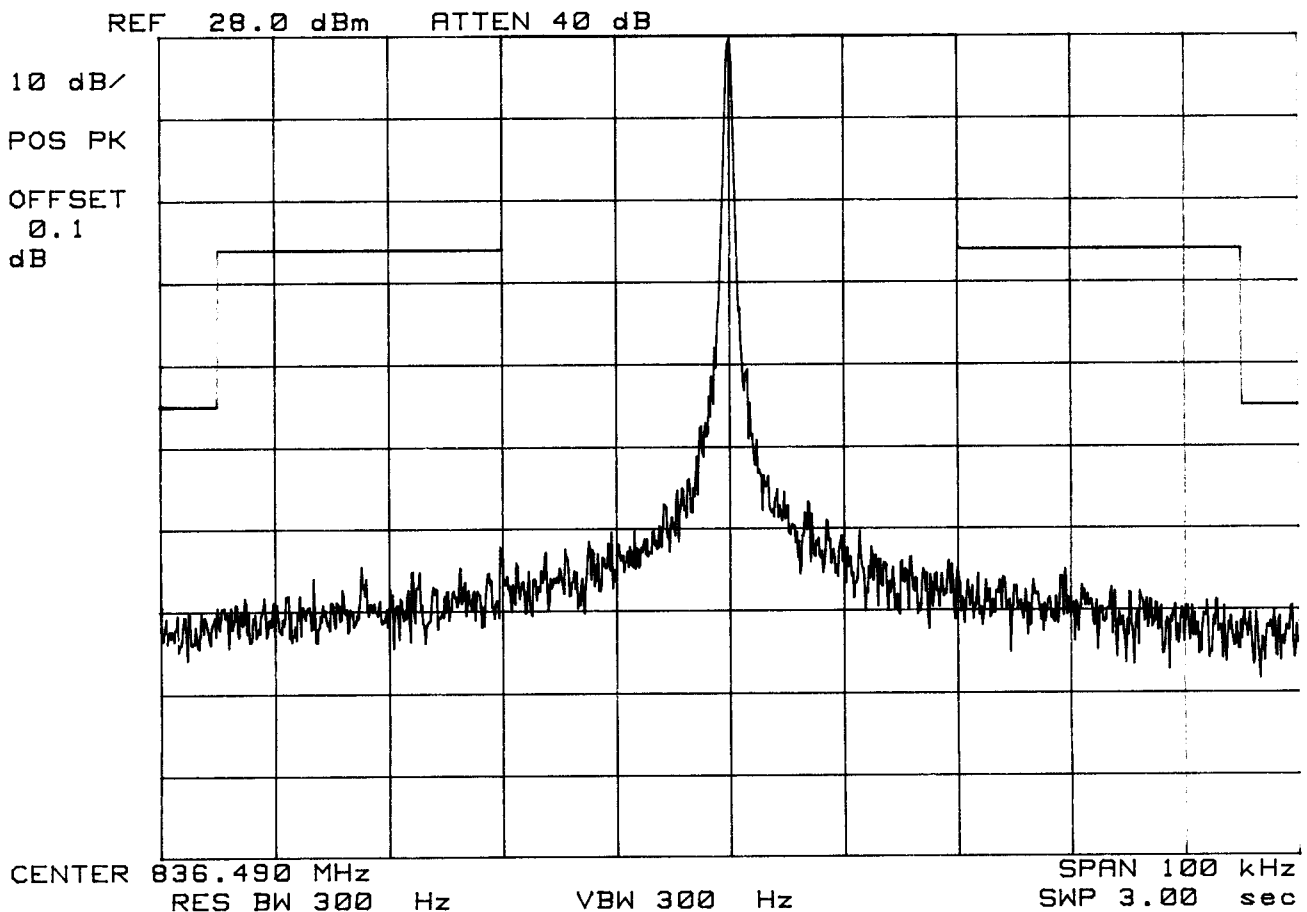
Tri-Mode Telematic Unit

FM Channel 0383

Operating Frequency: 836.490 MHz

Output Power : 28.0 dBm

Test Mode:Unmodulated Signal



PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:LXC-FD0200

DENSO International

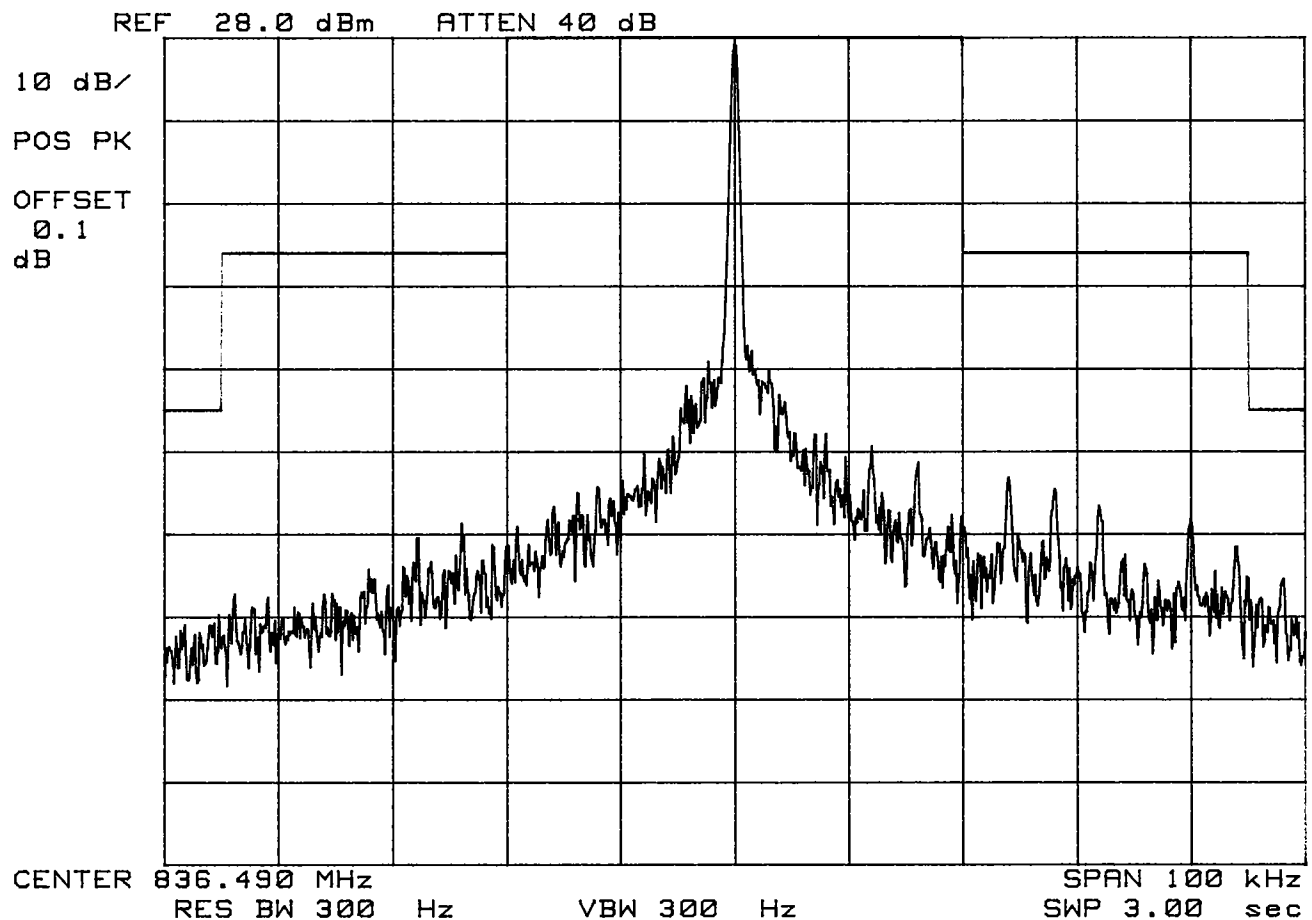
Tri-Mode Telematic Unit

FM Channel 0383

Operating Frequency: 836.490 MHz

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Test Mode:Unmodulated Signal



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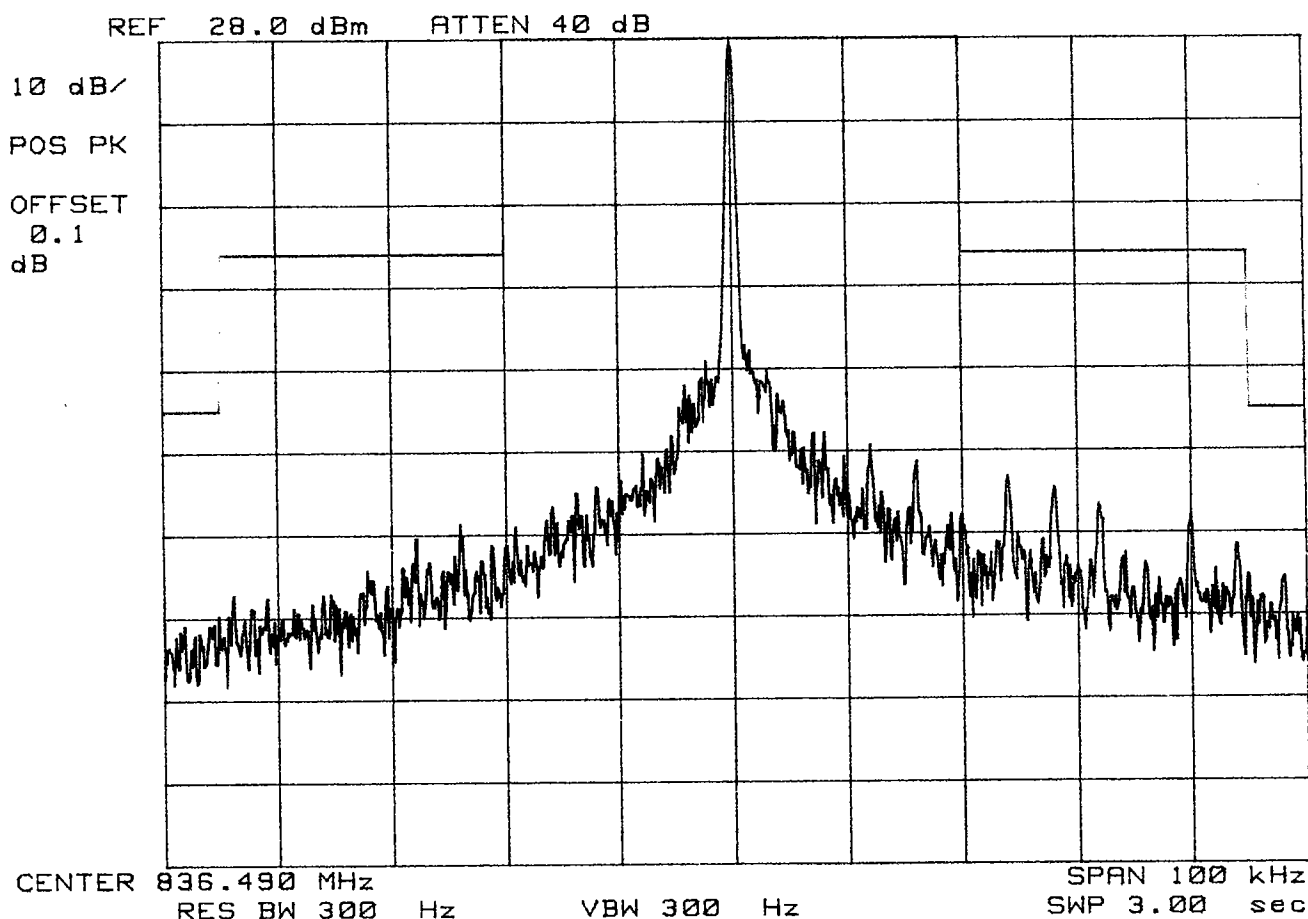
Tri-Mode Telematic Unit

FM Channel 0383

Operating Frequency: 836.490 MHz

Output Power : 28.0 dBm

Test Mode:Unmodulated Signal



PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:LXC-FD0200

DENSO International

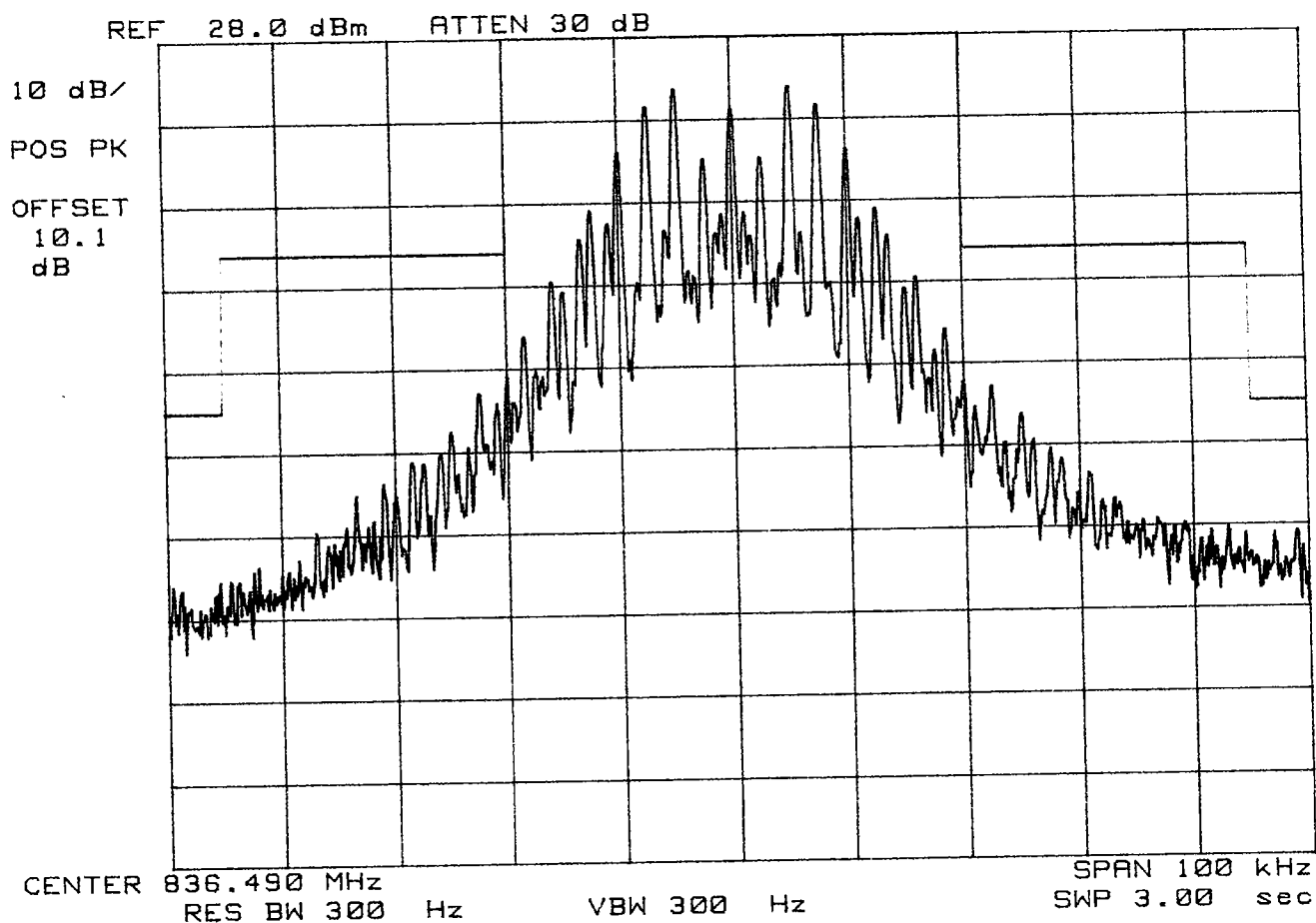
Tri-Mode Telematic Unit

FM Channel 0383

Operating Frequency: 836.490 MHz

Output Power : 28.0 dBm

Test Mode:SAT + Voice



PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:LXC-FD0200

DENSO International

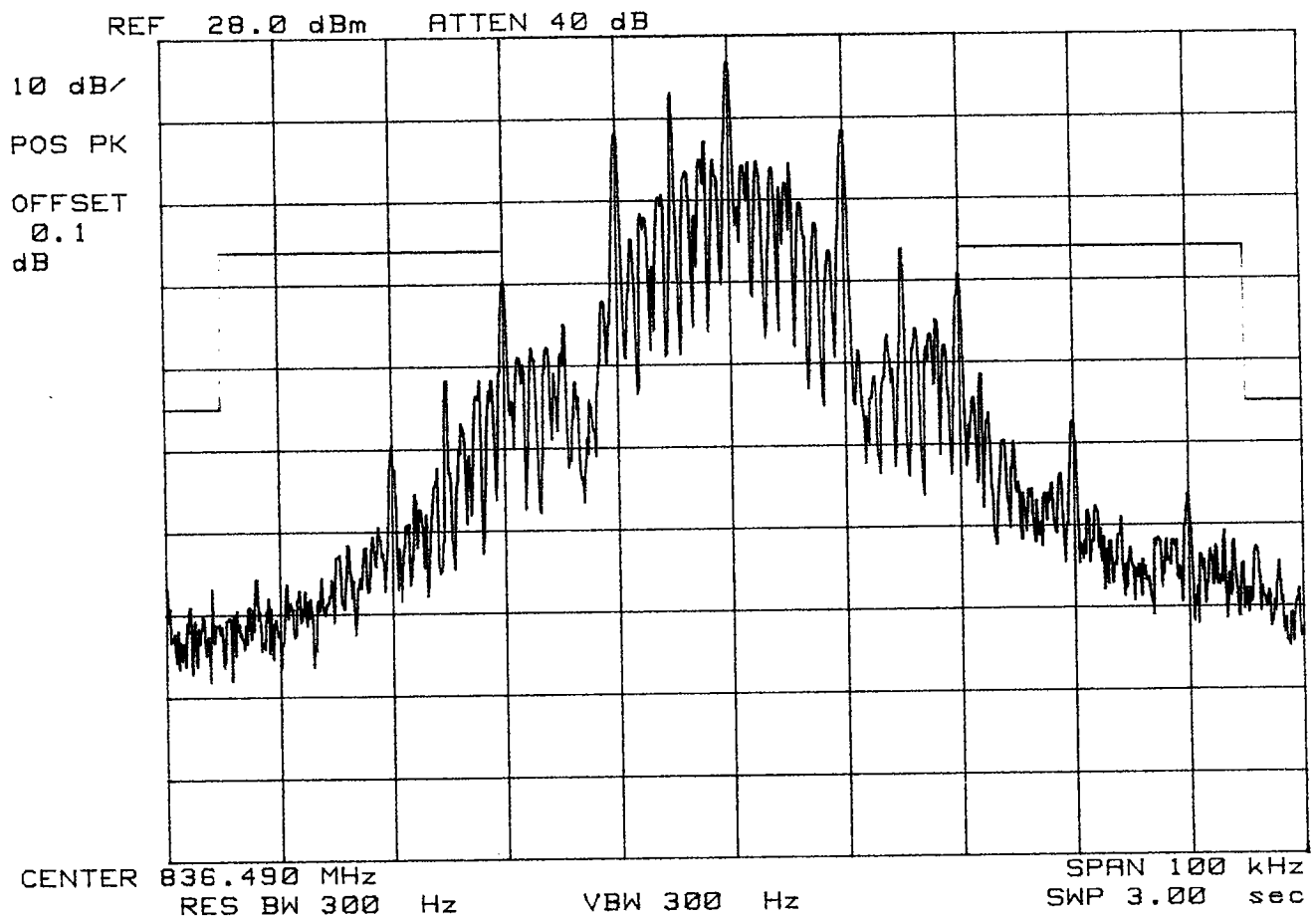
Tri-Mode Telematic Unit

FM Channel 0383

Operating Frequency: 836.490 MHz

Output Power : 28.0 dBm

Test Mode:Wide Band Data



PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:LXC-FD0200

DENSO International

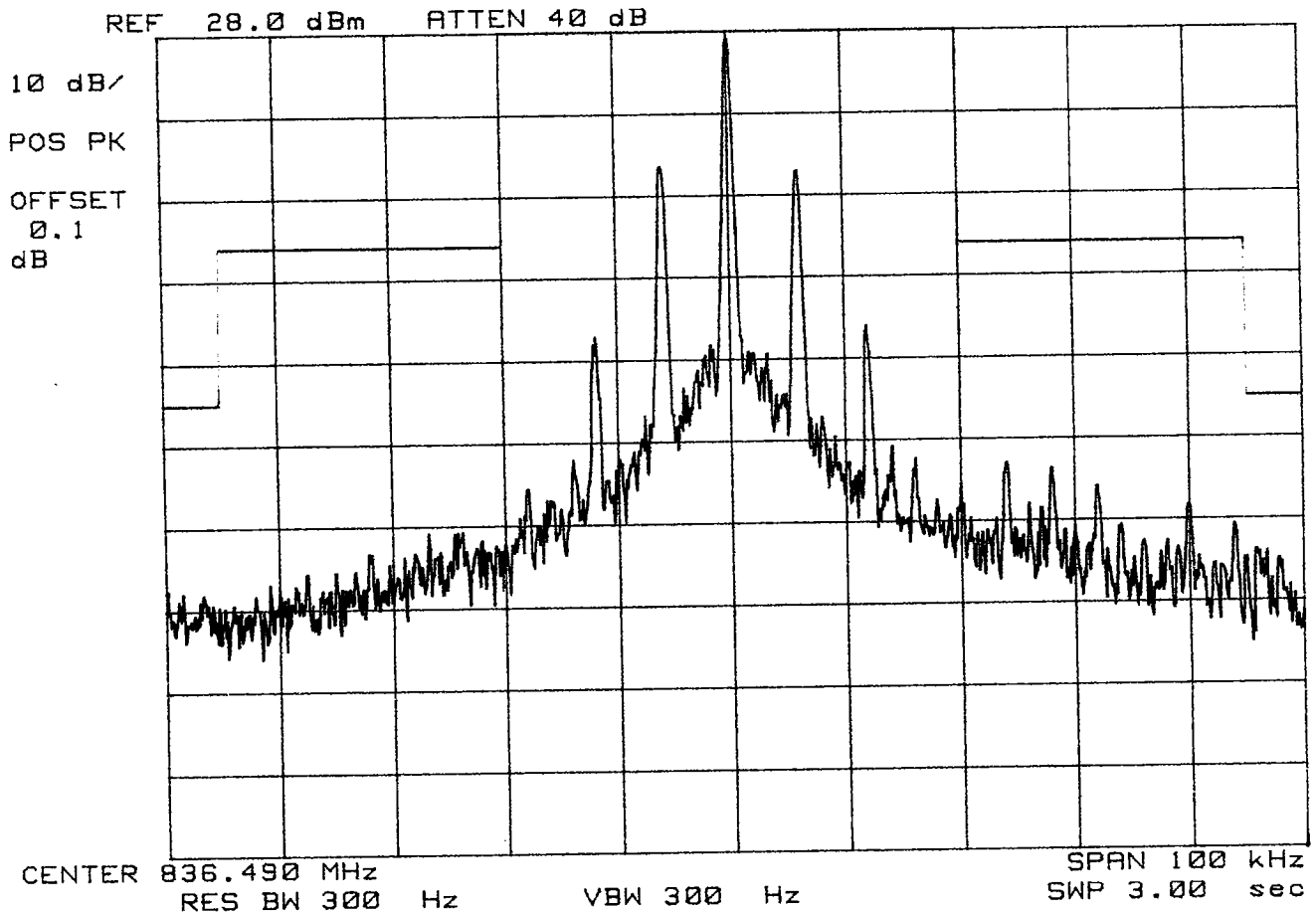
Tri-Mode Telematic Unit

FM Channel 0383

Operating Frequency: 836.490 MHz

Output Power : 28.0 dBm

Test Mode:SAT



PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:LXC-FD0200

DENSO International

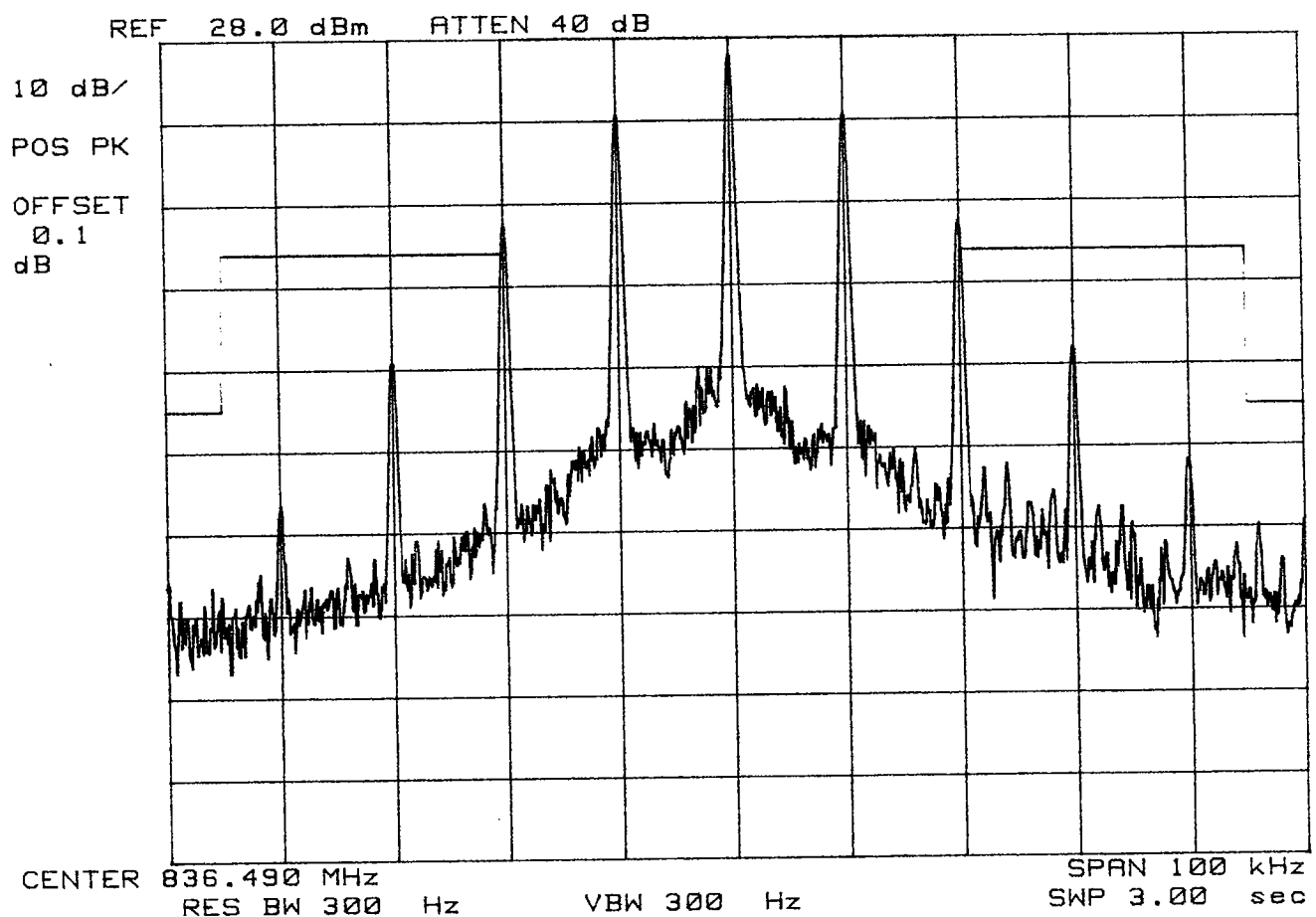
Tri-Mode Telematic Unit

FM Channel 0383

Operating Frequency: 836.490 MHz

Output Power : 28.0 dBm

Test Mode:ST



PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:LXC-FD0200

DENSO International

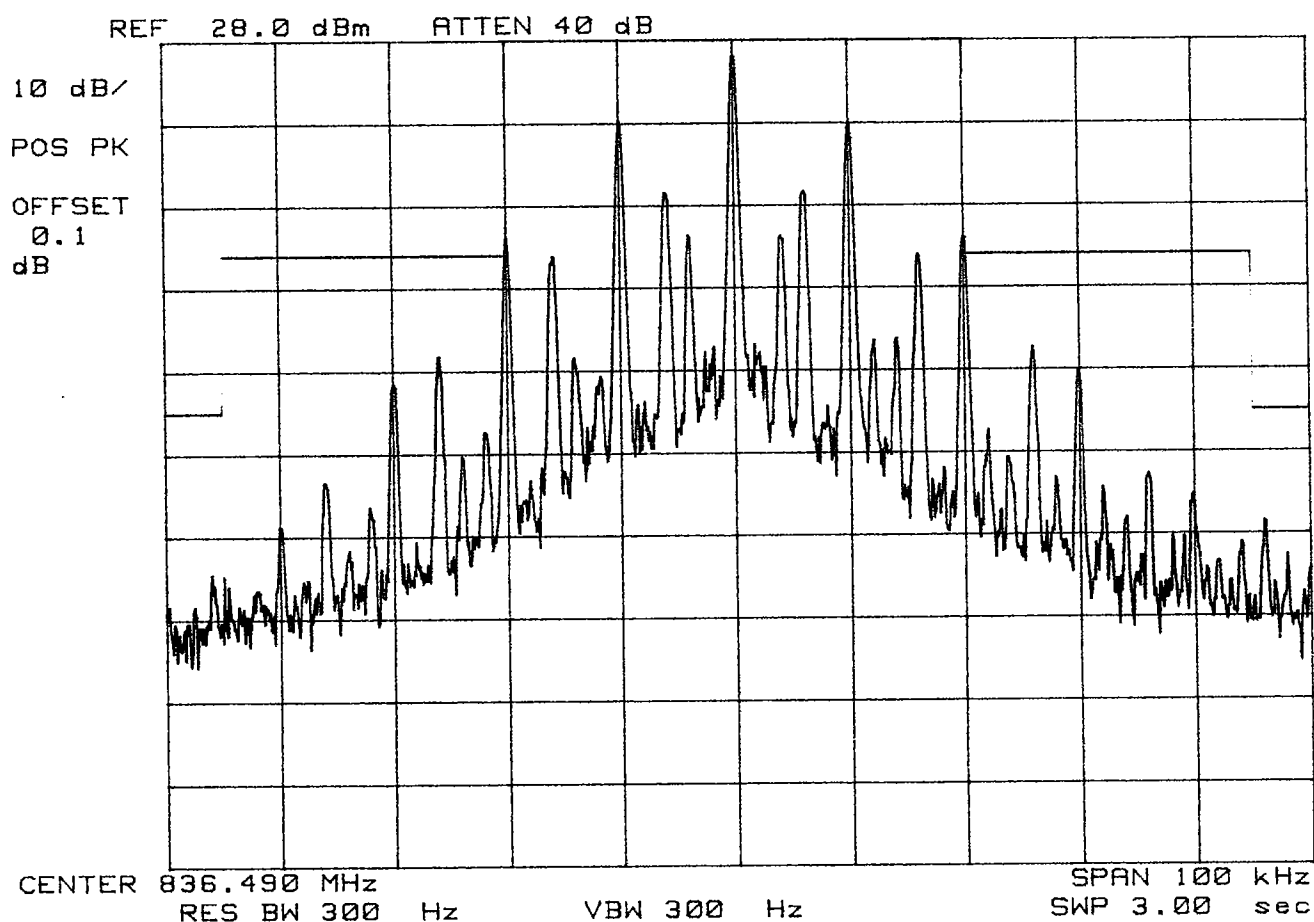
Tri-Mode Telematic Unit

FM Channel 0383

Operating Frequency: 836.490 MHz

Output Power : 28.0 dBm

Test Mode:SAT + ST



* Agilent 11:59:24 Jan 22, 2002

FCC ID: LXC-FD0200 BAND EDGE CDMA Ch. 1013

Ref 27 dBm

Atten 40 dB

Samp

Log

10

dB/

Offst

0.1

dB

DI

-13.0

dBm

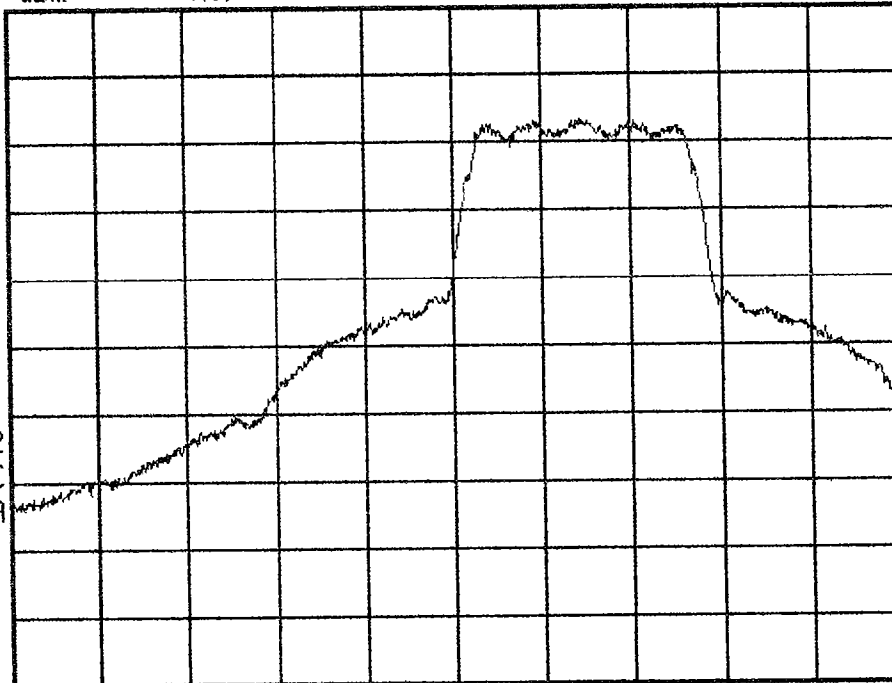
VAvg

100

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 12:41:42 Jan 22, 2002

FCC ID: LXC-FD0200 BAND EDGE CDMA Ch. 0777

Ref 27 dBm

Atten 40 dB

Samp

Log

10

dB/

Offst

0.1

dB

DI

-13.0

dBm

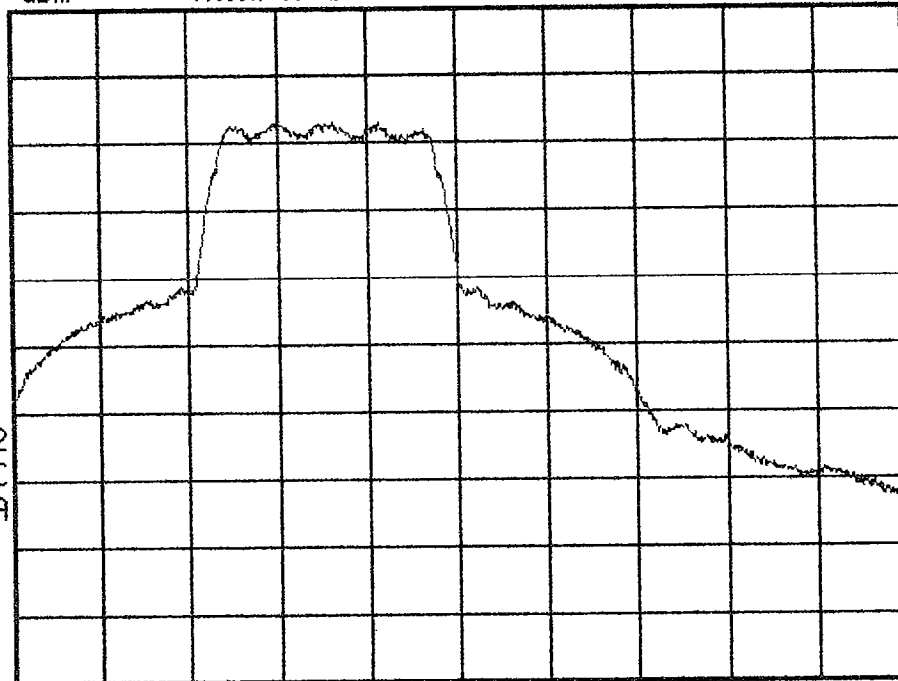
VAvg

100

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

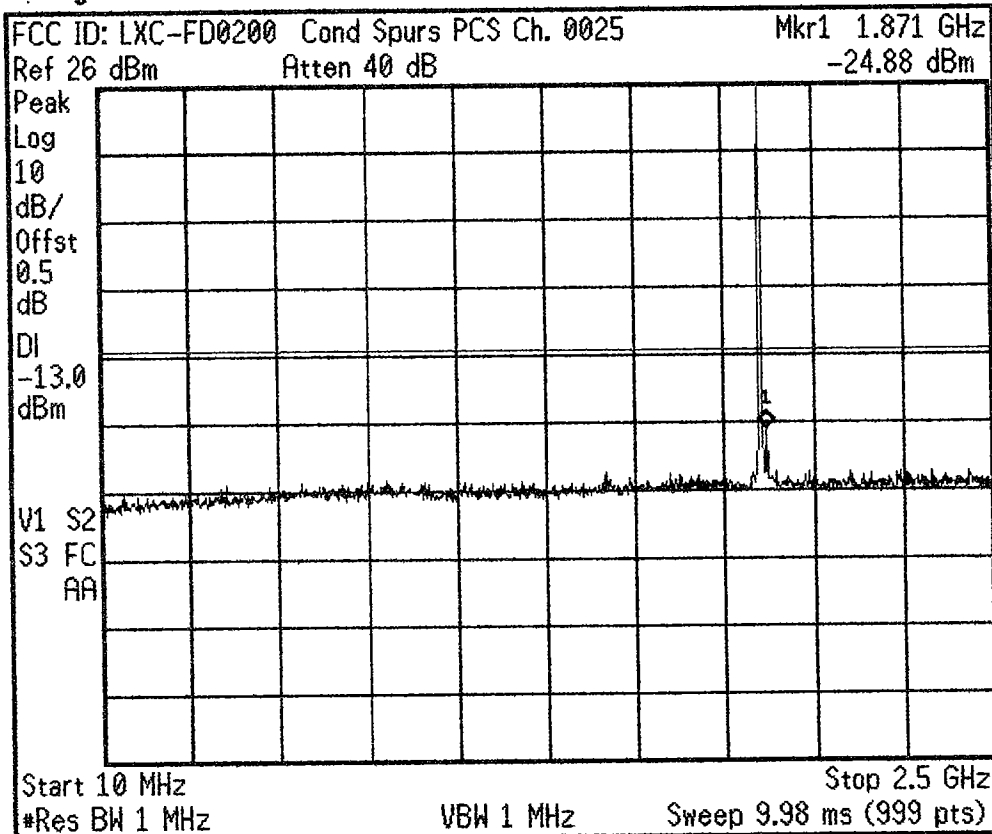
0.00000000 Hz

Signal Track

On

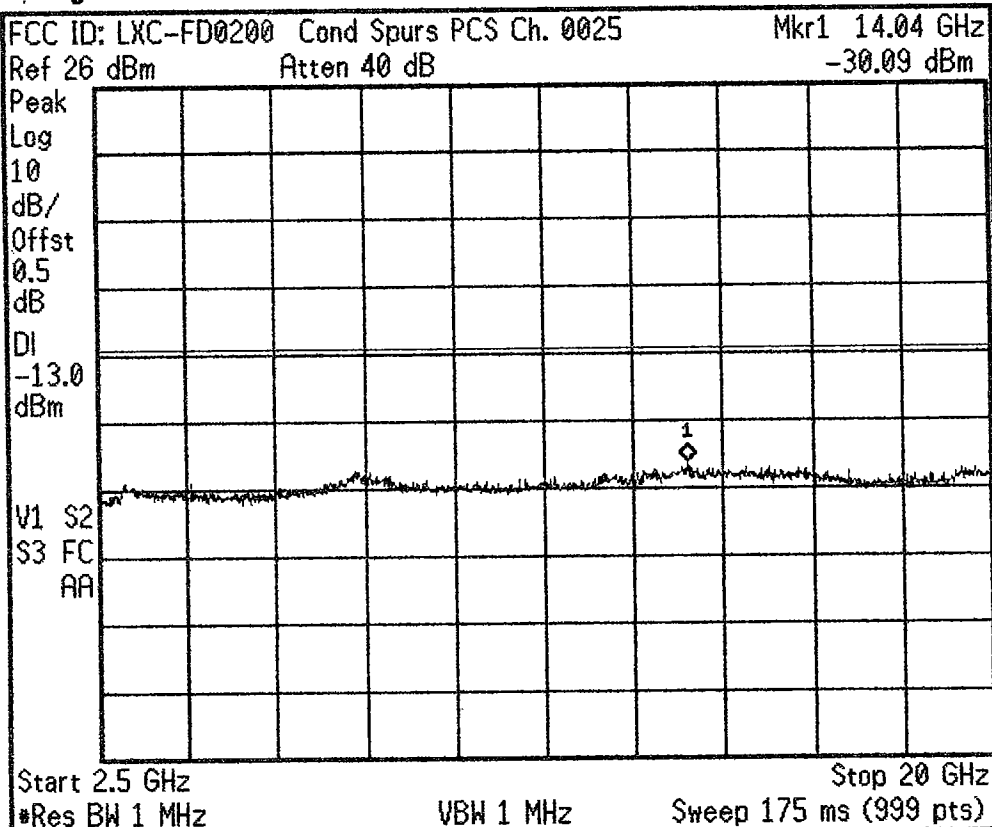
Off

* Agilent 11:42:20 Jan 22, 2002



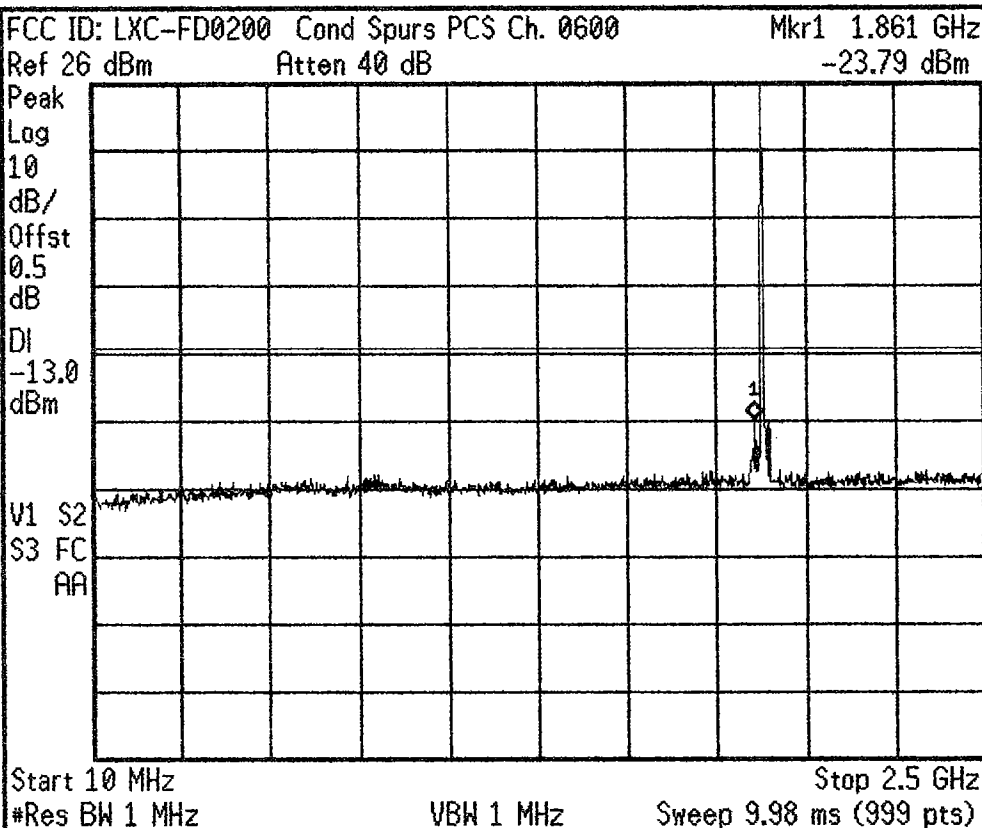
Freq/Channel
Center Freq 1.25500000 GHz
Start Freq 10.0000000 MHz
Stop Freq 2.50000000 GHz
CF Step 249.000000 MHz Auto Man
Freq Offset 0.00000000 Hz
Signal Track On Off

* Agilent 11:43:49 Jan 22, 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

* Agilent 11:45:47 Jan 22, 2002



Freq/Channel

Center Freq
 1.25500000 GHz

Start Freq
 10.0000000 MHz

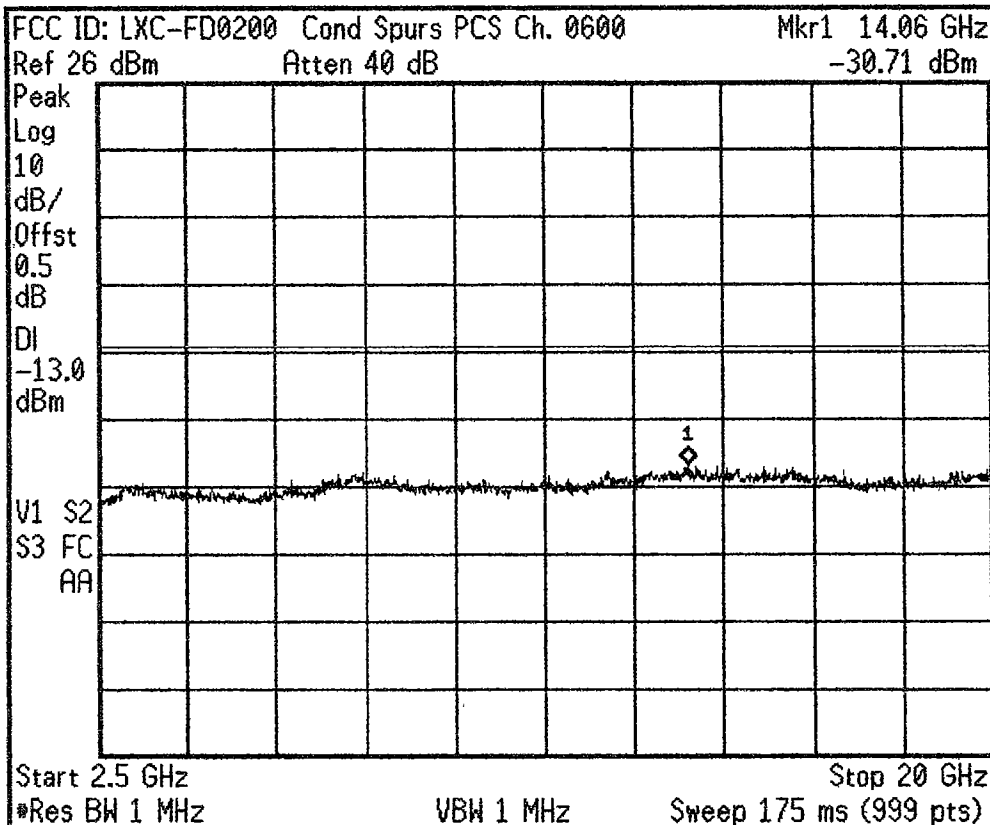
Stop Freq
 2.50000000 GHz

CF Step
 249.000000 MHz
 Auto Man

Freq Offset
 0.00000000 Hz

Signal Track
 On Off

* Agilent 11:46:29 Jan 22, 2002



Freq/Channel

Center Freq
 11.2500000 GHz

Start Freq
 2.50000000 GHz

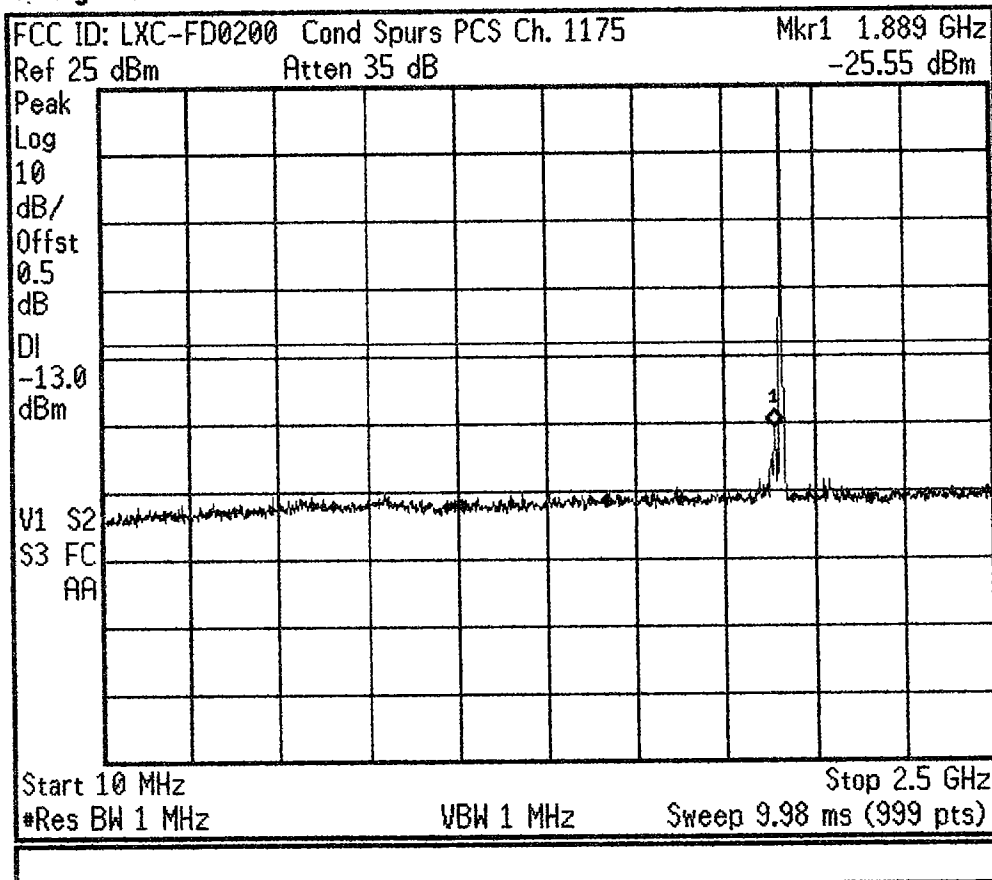
Stop Freq
 20.0000000 GHz

CF Step
 1.75000000 GHz
 Auto Man

Freq Offset
 0.00000000 Hz

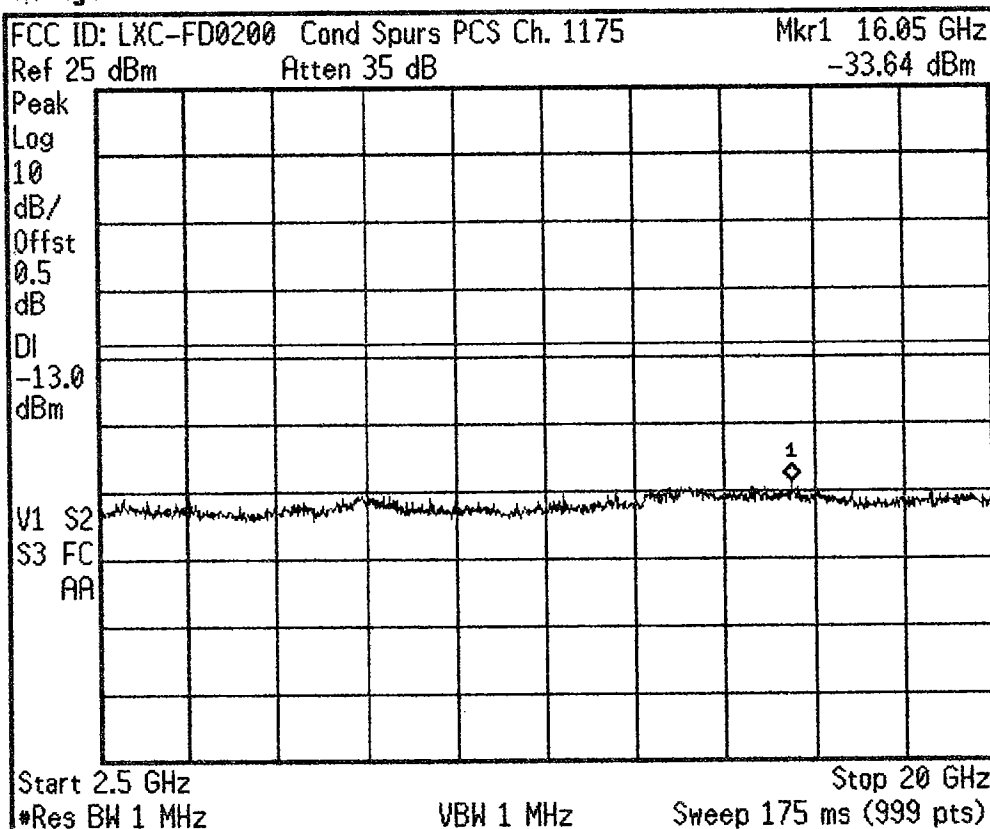
Signal Track
 On Off

* Agilent 11:48:11 Jan 22, 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

* Agilent 11:48:59 Jan 22, 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

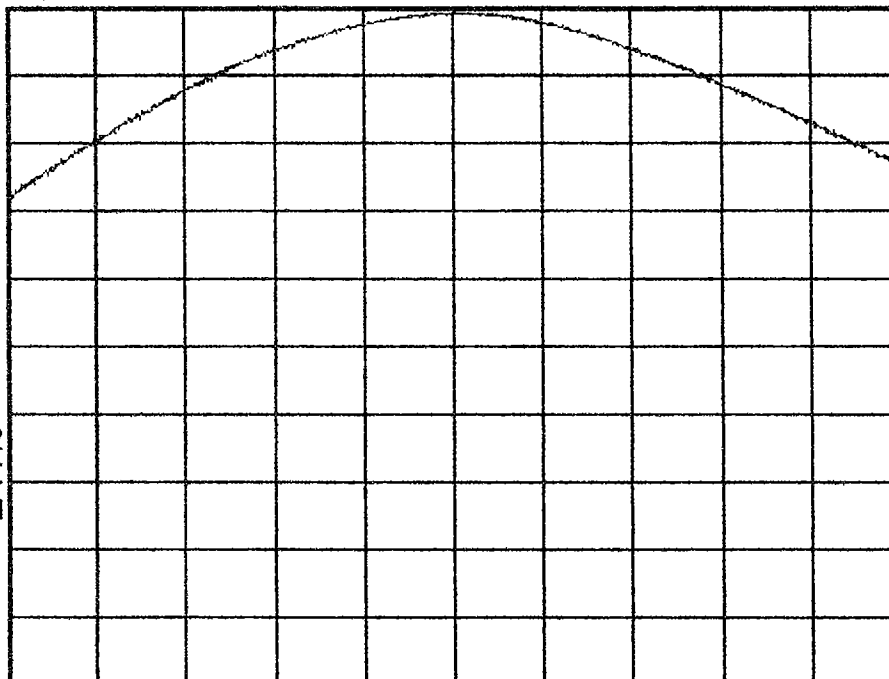
Agilent 12:48:37 Jan 22, 2002

FCC ID: LXC-FD0200 POWER OUT PCS Ch. 0600

Ref 26 dBm Atten 40 dB

Samp
Log
10
dB/
Offst
0.5
dB

VAvg
100
V1 S2
S3 FC
AA



Center 1.88 GHz

*Res BW 3 MHz

VBW 3 MHz

Span 10 MHz
Sweep 9.98 ms (999 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

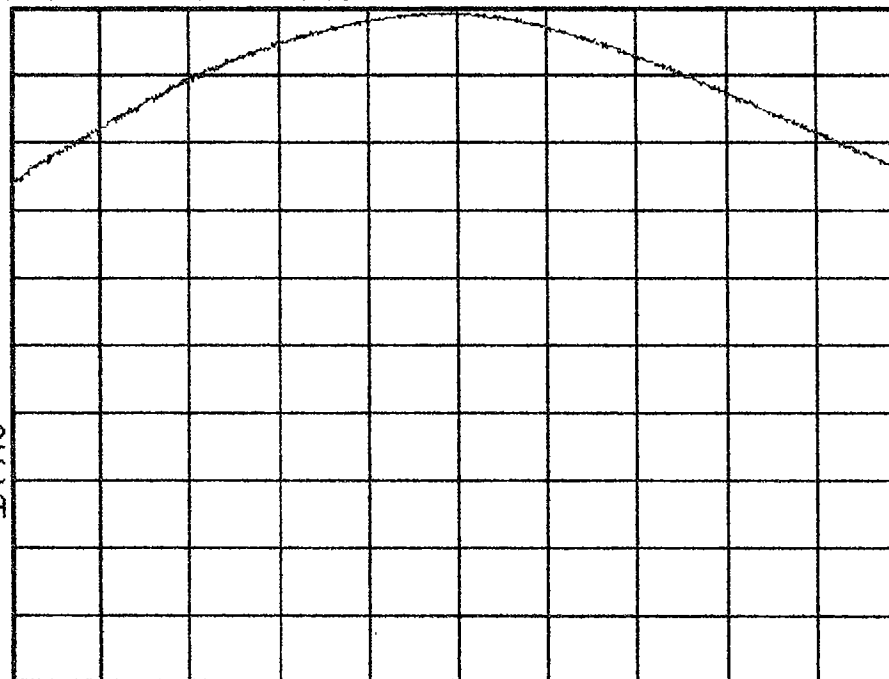
Agilent 12:49:58 Jan 22, 2002

FCC ID: LXC-FD0200 POWER OUT PCS Ch. 1175

Ref 25 dBm Atten 35 dB

Samp
Log
10
dB/
Offst
0.5
dB

VAvg
100
V1 S2
S3 FC
AA



Center 1.909 GHz

*Res BW 3 MHz

VBW 3 MHz

Span 10 MHz
Sweep 9.98 ms (999 pts)

Freq/Channel

Center Freq
1.90900000 GHz

Start Freq
1.90400000 GHz

Stop Freq
1.91400000 GHz

CF Step
1.00000000 MHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

* Agilent 12:52:36 Jan 22, 2002

FCC ID: LXC-FD0200 POWER OUT PCS Ch. 0025

Ref 26 dBm

Atten 40 dB

Samp

Log

10

dB/

Offst

0.5

dB

VAvg

100

V1 S2

S3 FC

AA

Center 1.851 GHz

*Res BW 3 MHz

VBW 3 MHz

Span 10 MHz

Sweep 9.98 ms (999 pts)

Freq/Channel

Center Freq

1.85100000 GHz

Start Freq

1.84600000 GHz

Stop Freq

1.85600000 GHz

CF Step

1.00000000 MHz

Auto

Man

Freq Offset

0.00000000 Hz

Signal Track

On

Off

* Agilent 12:54:06 Jan 22, 2002

FCC ID: LXC-FD0200 POWER OUT PCS Ch. 0025

Ref 26 dBm

Atten 40 dB

Samp

Log

10

dB/

Offst

0.5

dB

Center 1.851 GHz

*Res BW 30 kHz

*VBW 300 kHz

Span 3 MHz

Sweep 9.98 ms (999 pts)

Freq/Channel

Center Freq

1.85100000 GHz

Start Freq

1.84950000 GHz

Stop Freq

1.85250000 GHz

CF Step

300.000000 kHz

Auto

Man

Freq Offset

0.00000000 Hz

Channel Power Results (idle)

Channel Power

26.00 dBm

Integration BW

2.000 MHz

Signal Track

On

Off

Density

-37.01 dBm/Hz

* Agilent 06:52:08 Jan 24, 2002

FCC ID: LXC-FD0200 BAND EDGE PCS Ch. 1175

Ref 25 dBm

Atten 35 dB

Samp

Log

10

dB/

Offst

0.1

dB

DI

-13.0

dBm

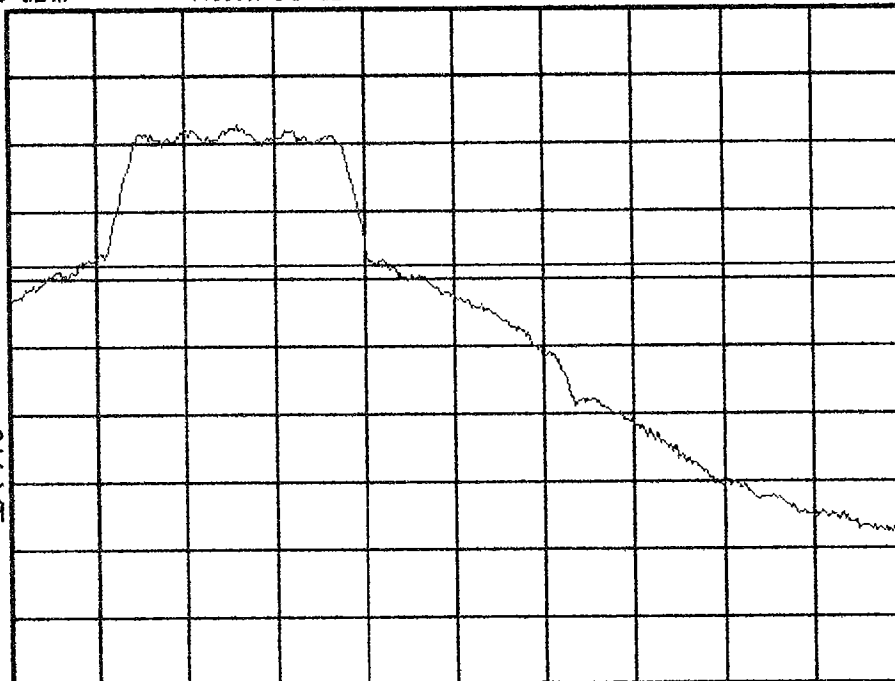
VAvg

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 06:54:08 Jan 24, 2002

FCC ID: LXC-FD0200 BAND EDGE PCS Ch. 0025

Ref 26 dBm

Atten 40 dB

Samp

Log

10

dB/

Offst

0.1

dB

DI

-13.0

dBm

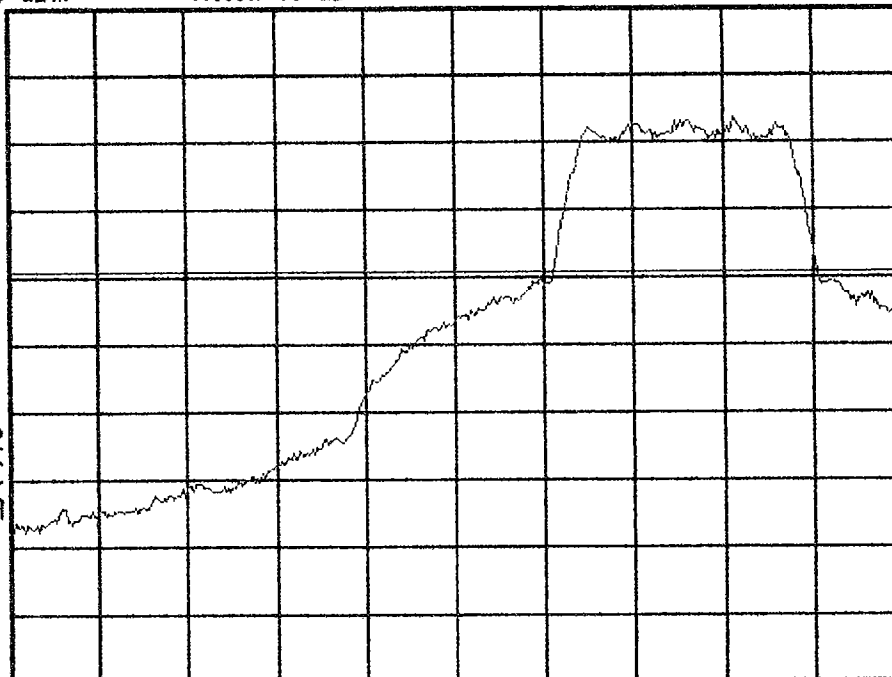
VAvg

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

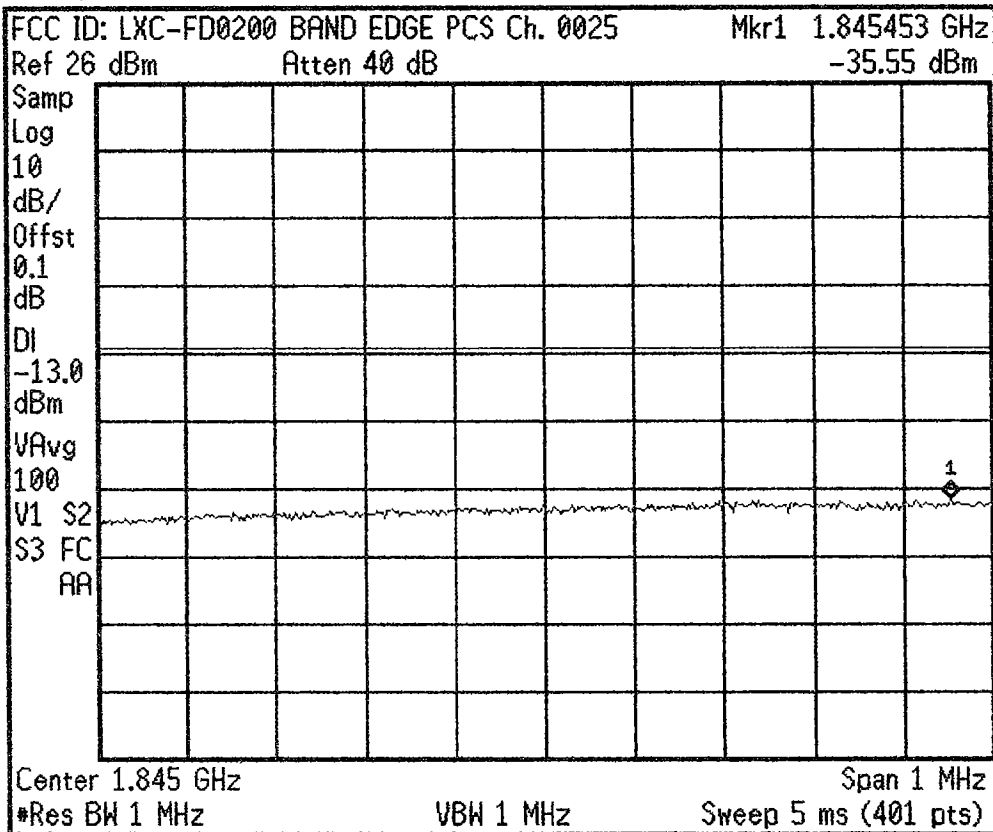
0.00000000 Hz

Signal Track

On

Off

Agilent 06:47:48 Jan 24, 2002



Freq/Channel

Center Freq
1.84500000 GHz

Start Freq
1.84450000 GHz

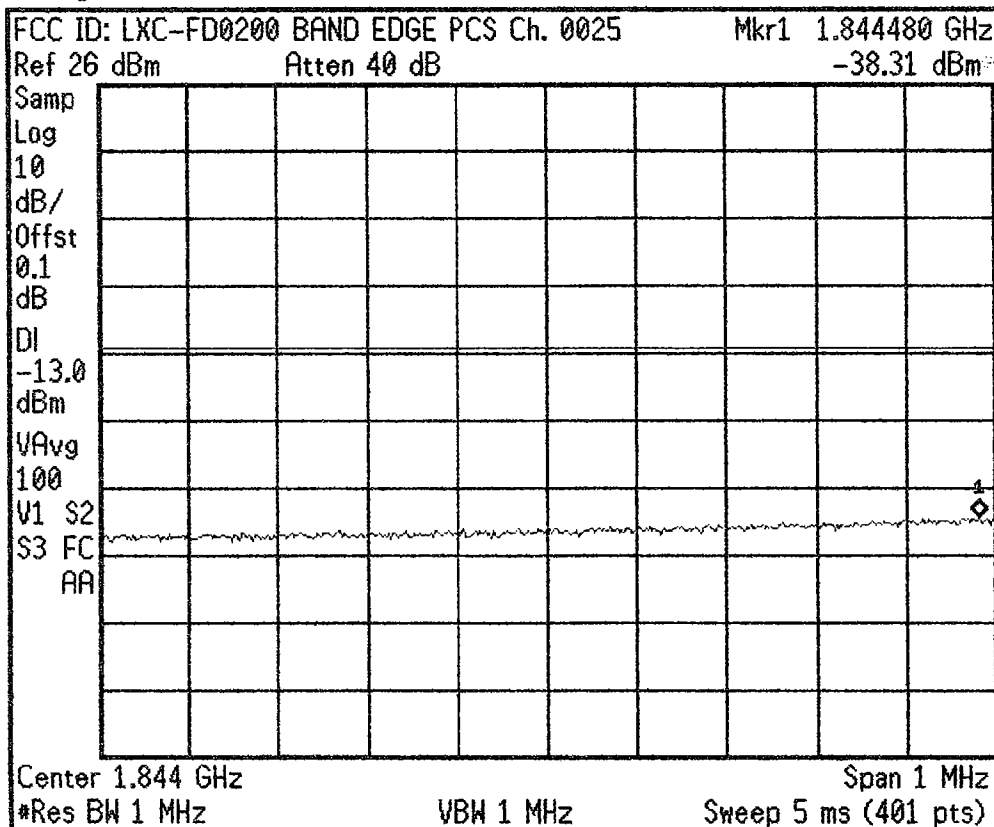
Stop Freq
1.84550000 GHz

CF Step
100.000000 kHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

Agilent 06:48:44 Jan 24, 2002



Freq/Channel

Center Freq
1.84400000 GHz

Start Freq
1.84350000 GHz

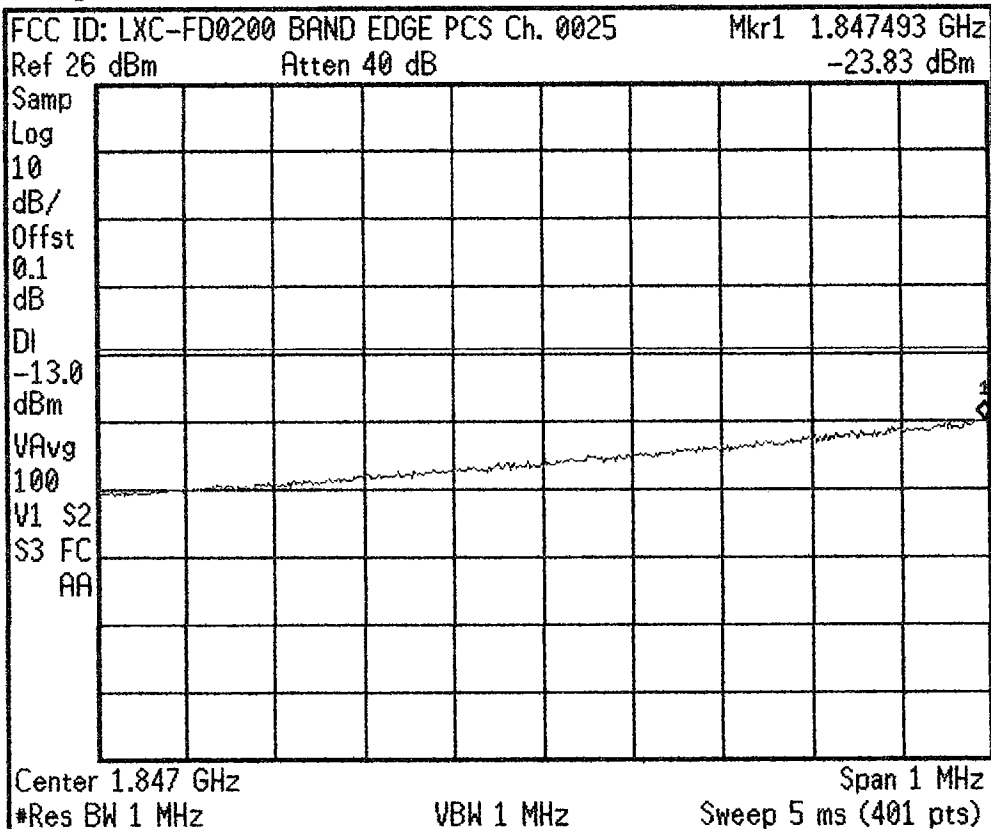
Stop Freq
1.84450000 GHz

CF Step
100.000000 kHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

* Agilent 06:45:43 Jan 24, 2002



Freq/Channel

Center Freq
 1.84700000 GHz

Start Freq
 1.84650000 GHz

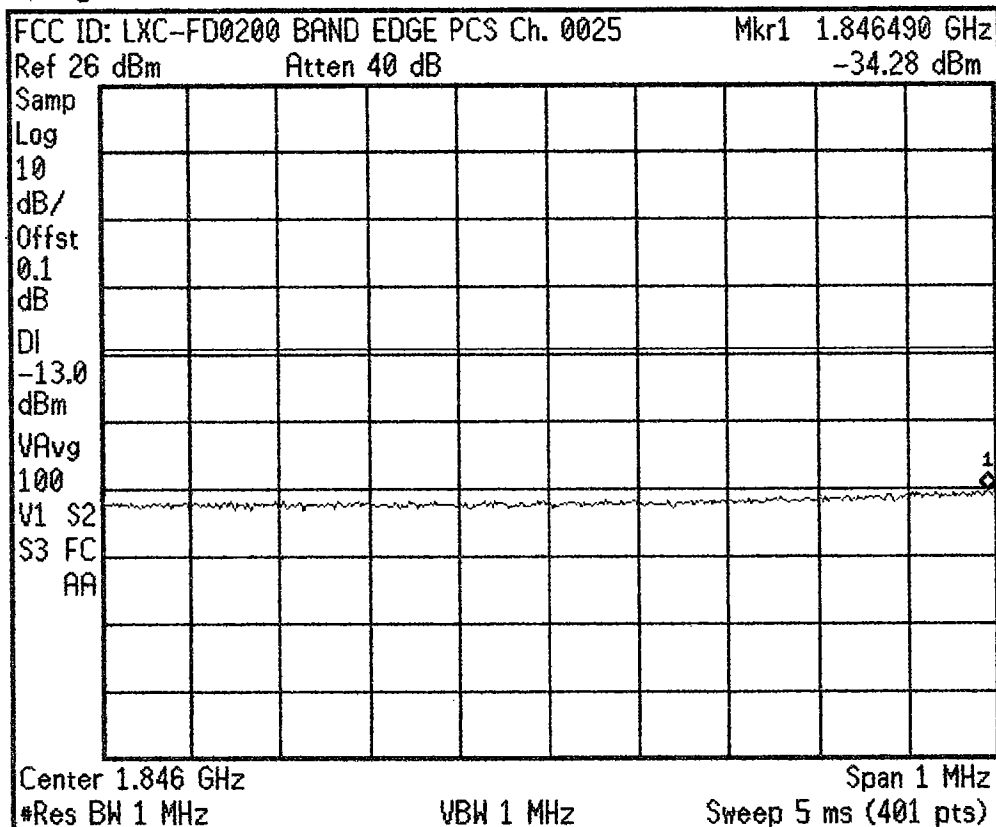
Stop Freq
 1.84750000 GHz

CF Step
 100.000000 kHz
 Auto Man

Freq Offset
 0.00000000 Hz

Signal Track
 On Off

* Agilent 06:46:55 Jan 24, 2002



Freq/Channel

Center Freq
 1.84600000 GHz

Start Freq
 1.84550000 GHz

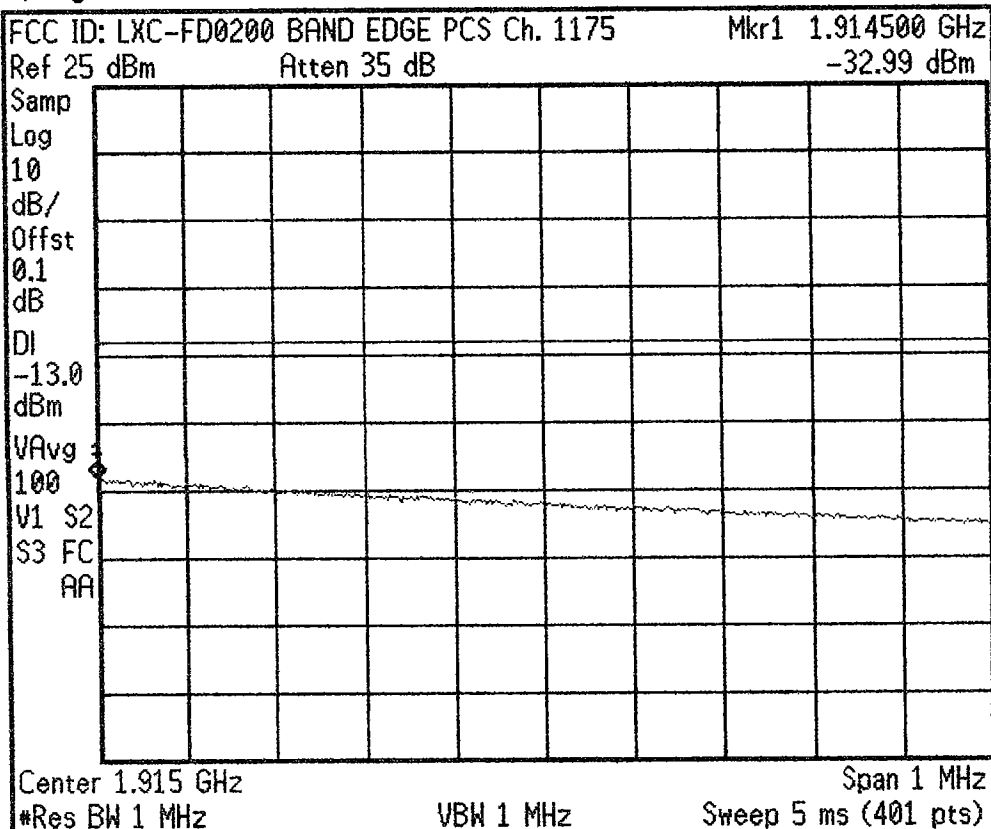
Stop Freq
 1.84650000 GHz

CF Step
 100.000000 kHz
 Auto Man

Freq Offset
 0.00000000 Hz

Signal Track
 On Off

* Agilent 06:41:31 Jan 24, 2002



Freq/Channel

Center Freq
 1.91500000 GHz

Start Freq
 1.91450000 GHz

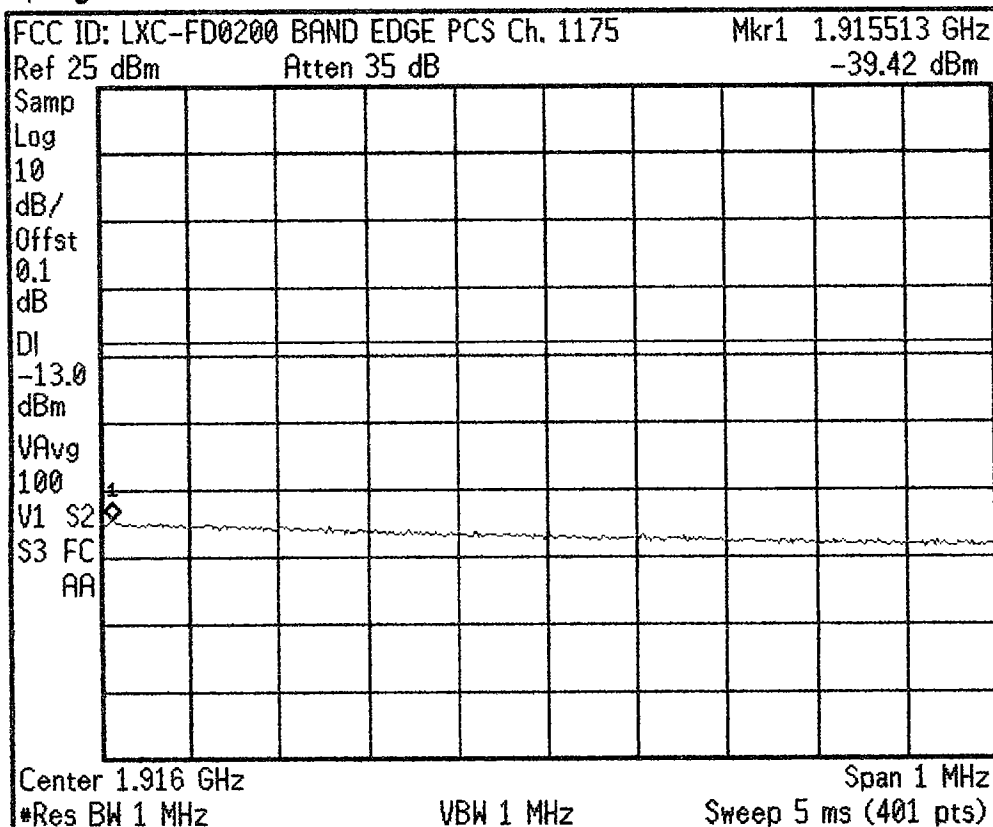
Stop Freq
 1.91550000 GHz

CF Step
 100.000000 kHz
 Auto Man

Freq Offset
 0.00000000 Hz

Signal Track
 On Off

* Agilent 06:42:06 Jan 24, 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 06:41:31 Jan 24, 2002

FCC ID: LXC-FD0200 BAND EDGE PCS Ch. 1175

Mkr1 1.914500 GHz

Ref 25 dBm

Atten 35 dB

-32.99 dBm

Samp

Log

10

dB/

Offst

0.1

dB

DI

-13.0

dBm

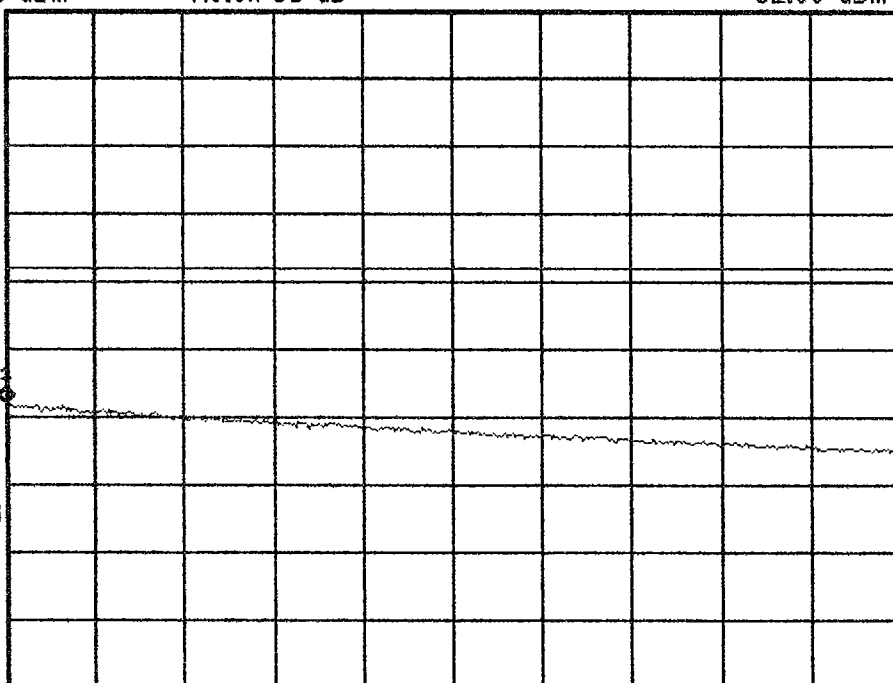
VAvg

100

V1 S2

S3 FC

AA



Center 1.915 GHz

Span 1 MHz

*Res BW 1 MHz

VBW 1 MHz

Sweep 5 ms (401 pts)

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

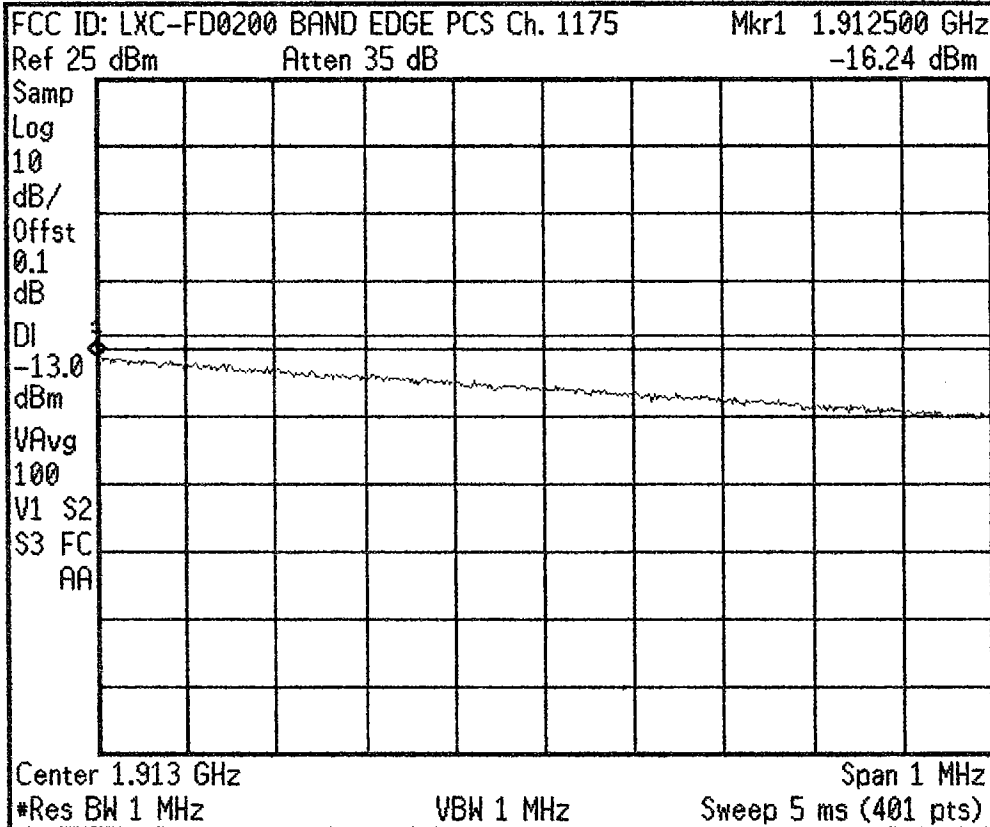
0.00000000 Hz

Signal Track

On

Off

* Agilent 06:40:01 Jan 24, 2002



Freq/Channel

Center Freq
1.91300000 GHz

Start Freq
1.91250000 GHz

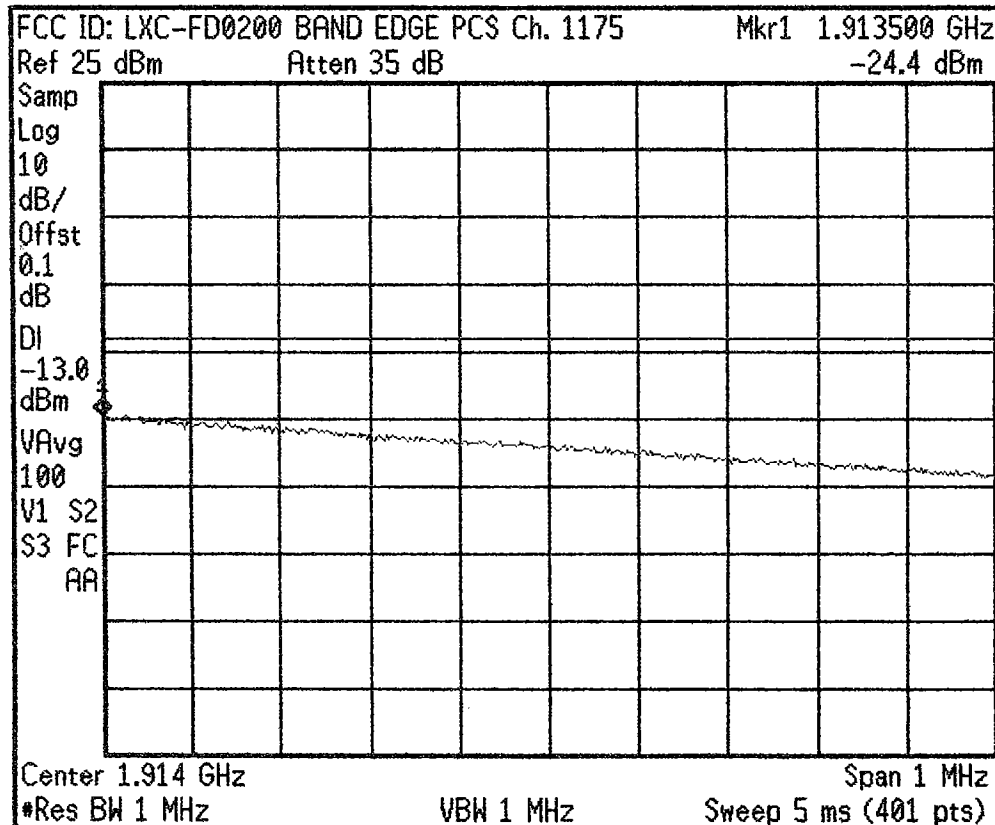
Stop Freq
1.91350000 GHz

CF Step
100.000000 kHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

* Agilent 06:40:50 Jan 24, 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 13:23:51 Jan 22, 2002

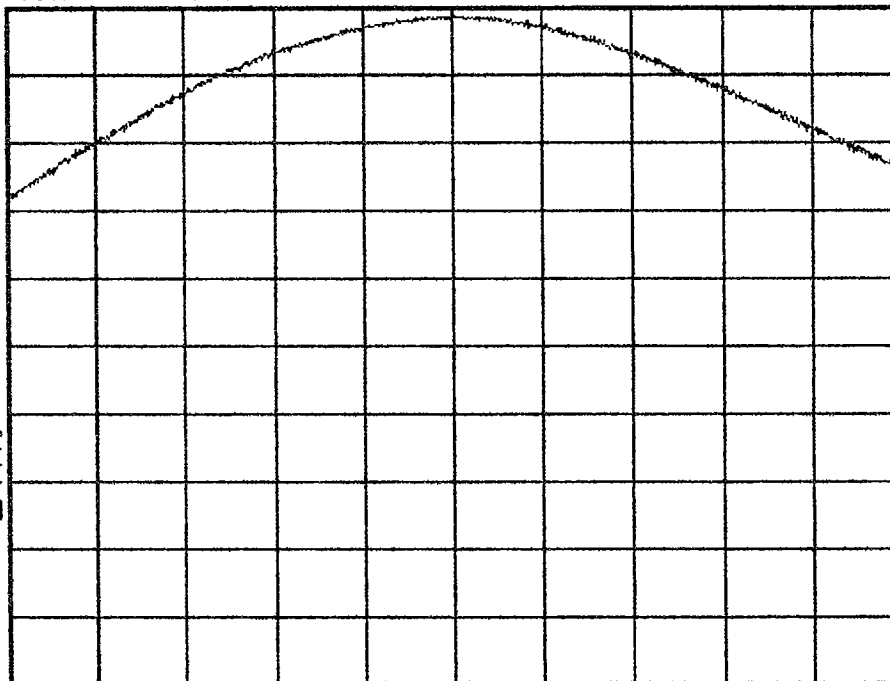
FCC ID: LXC-FD0200 POWER OUT CDMA Ch. 0383

Ref 27 dBm

Atten 40 dB

Samp
Log
10
dB/
Offst
0.1
dB

VAvg
100
V1 S2
S3 FC
AA



Center 836.5 MHz

Span 10 MHz

*Res BW 3 MHz

VBW 3 MHz

Sweep 9.98 ms (999 pts)

Freq/Channel

Center Freq

836.500000 MHz

Start Freq

831.500000 MHz

Stop Freq

841.500000 MHz

CF Step

1.00000000 MHz

Auto Man

Freq Offset

0.00000000 Hz

Signal Track

On Off

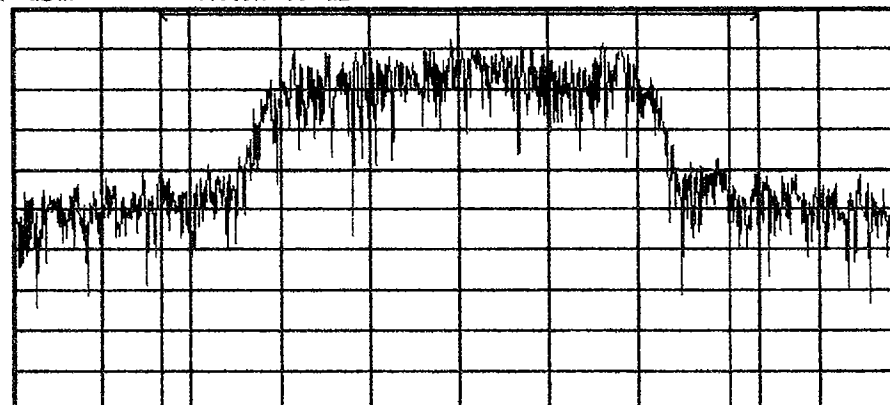
* Agilent 13:26:13 Jan 22, 2002

FCC ID: LXC-FD0200 POWER OUT CDMA Ch. 0383

Ref 27 dBm

Atten 40 dB

Samp
Log
10
dB/
Offst
0.1
dB



Center 836.5 MHz

Span 3 MHz

*Res BW 30 kHz

*VBW 300 kHz

Sweep 9.98 ms (999 pts)

Freq/Channel

Center Freq

836.500000 MHz

Start Freq

835.000000 MHz

Stop Freq

838.000000 MHz

CF Step

300.000000 kHz

Auto Man

Freq Offset

0.00000000 Hz

Signal Track

On Off

Channel Power Results (idle)

Channel Power

26.99 dBm

Integration BW 2.000 MHz

Density -36.02 dBm/Hz

* Agilent 10:07:37 Jan 22, 2002

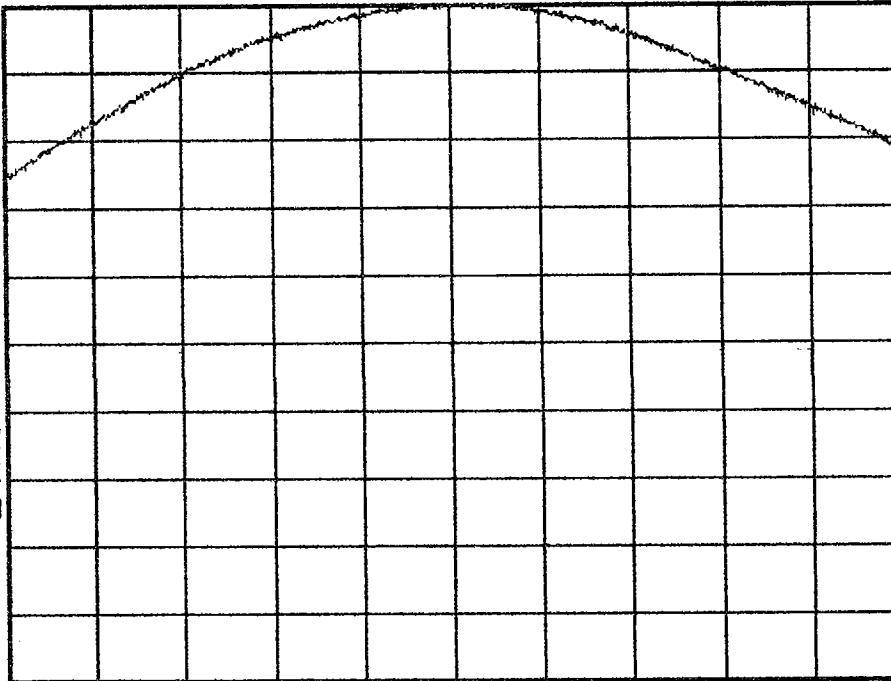
FCC ID: LXC-FD0200 POWER OUT CDMA Ch. 1013

Ref 27 dBm

Atten 40 dB

Peak
Log
10
dB/
Offst
0.1
dB

V1 S2
S3 FC
AA



Center 824.7 MHz

Span 10 MHz

*Res BW 3 MHz

VBW 3 MHz

Sweep 9.98 ms (999 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 10:09:52 Jan 22, 2002

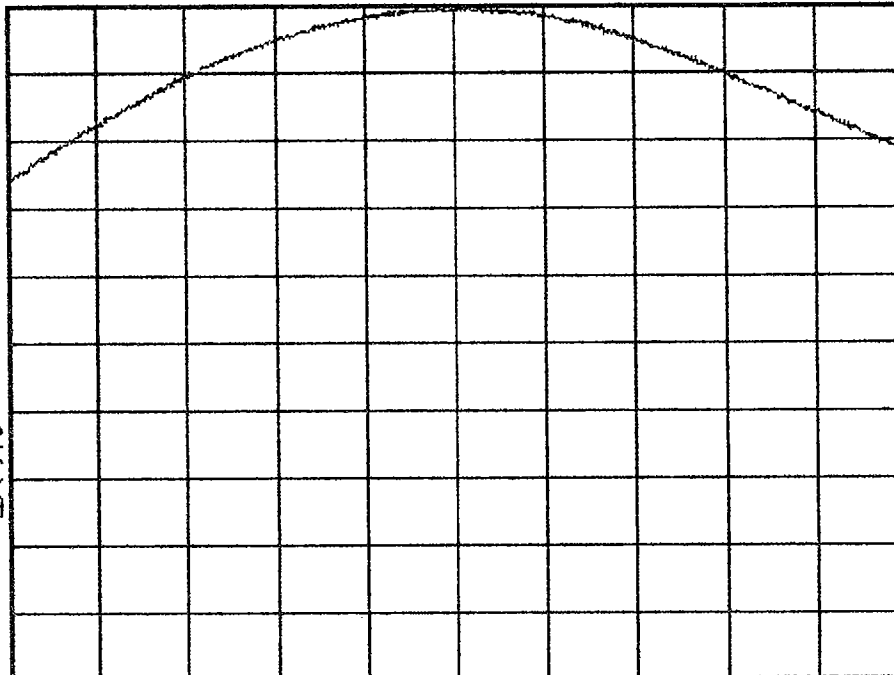
FCC ID: LXC-FD0200 POWER OUT CDMA Ch. 0777

Ref 27 dBm

Atten 40 dB

Peak
Log
10
dB/
Offst
0.1
dB

V1 S2
S3 FC
AA



Center 848.3 MHz

Span 10 MHz

*Res BW 3 MHz

VBW 3 MHz

Sweep 9.98 ms (999 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

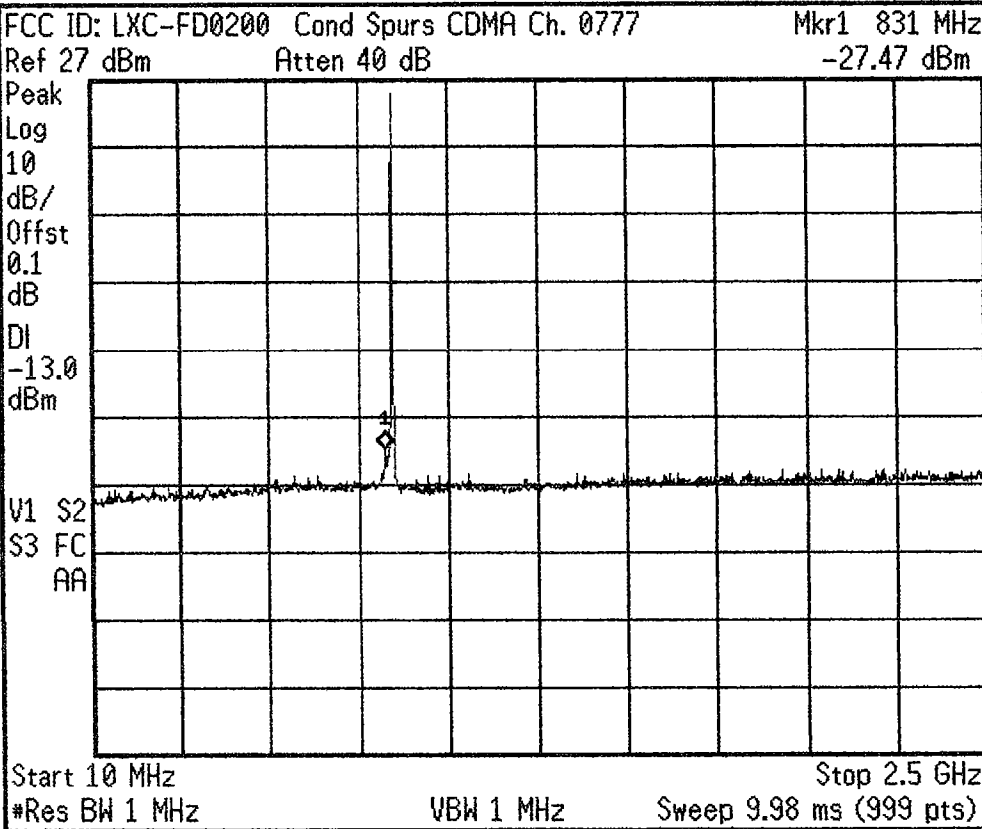
0.00000000 Hz

Signal Track

On

Off

* Agilent 10:04:45 Jan 22, 2002



Freq/Channel

Center Freq
 1.25500000 GHz

Start Freq
 10.0000000 MHz

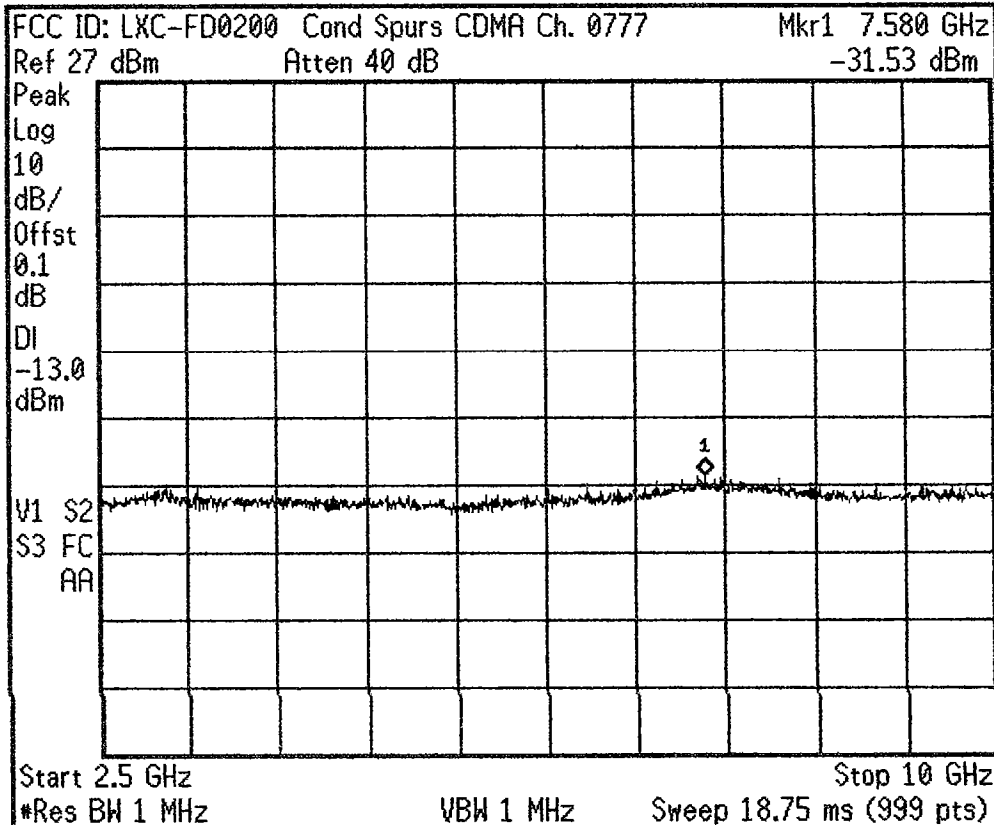
Stop Freq
 2.50000000 GHz

CF Step
 249.000000 MHz
 Auto Man

Freq Offset
 0.00000000 Hz

Signal Track
 On Off

* Agilent 10:05:45 Jan 22, 2002



Freq/Channel

Center Freq
 6.25000000 GHz

Start Freq
 2.50000000 GHz

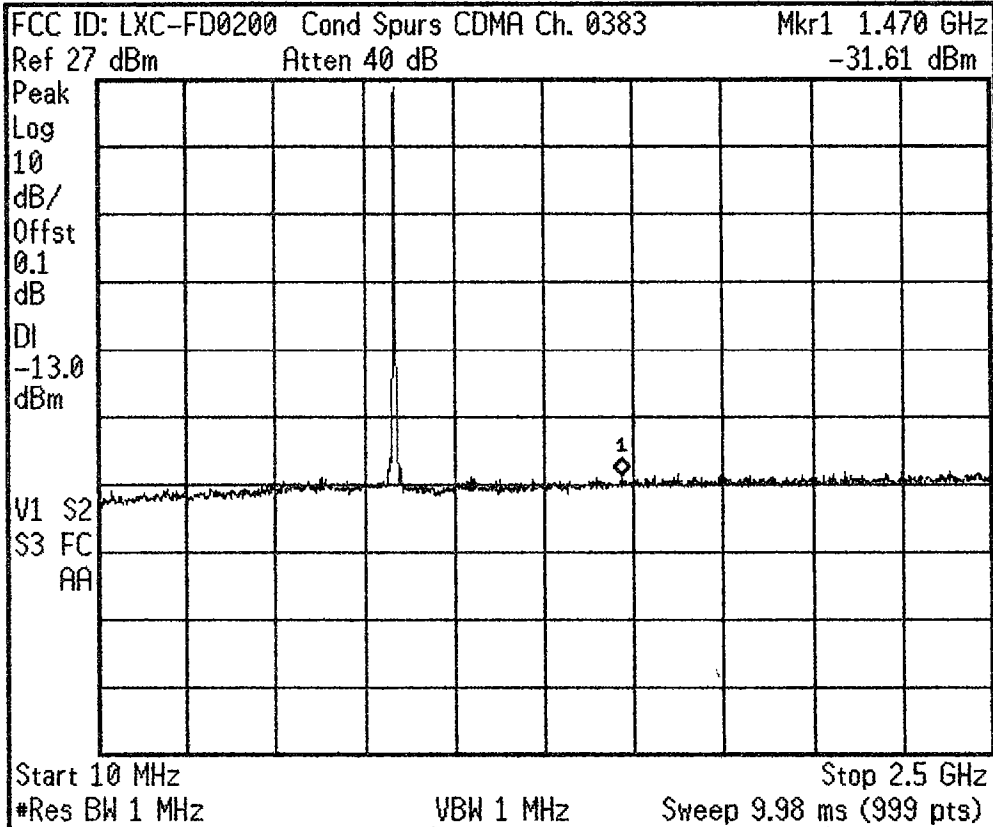
Stop Freq
 10.0000000 GHz

CF Step
 750.000000 MHz
 Auto Man

Freq Offset
 0.00000000 Hz

Signal Track
 On Off

Agilent 10:01:12 Jan 22, 2002



Freq/Channel

Center Freq
 1.25500000 GHz

Start Freq
 10.0000000 MHz

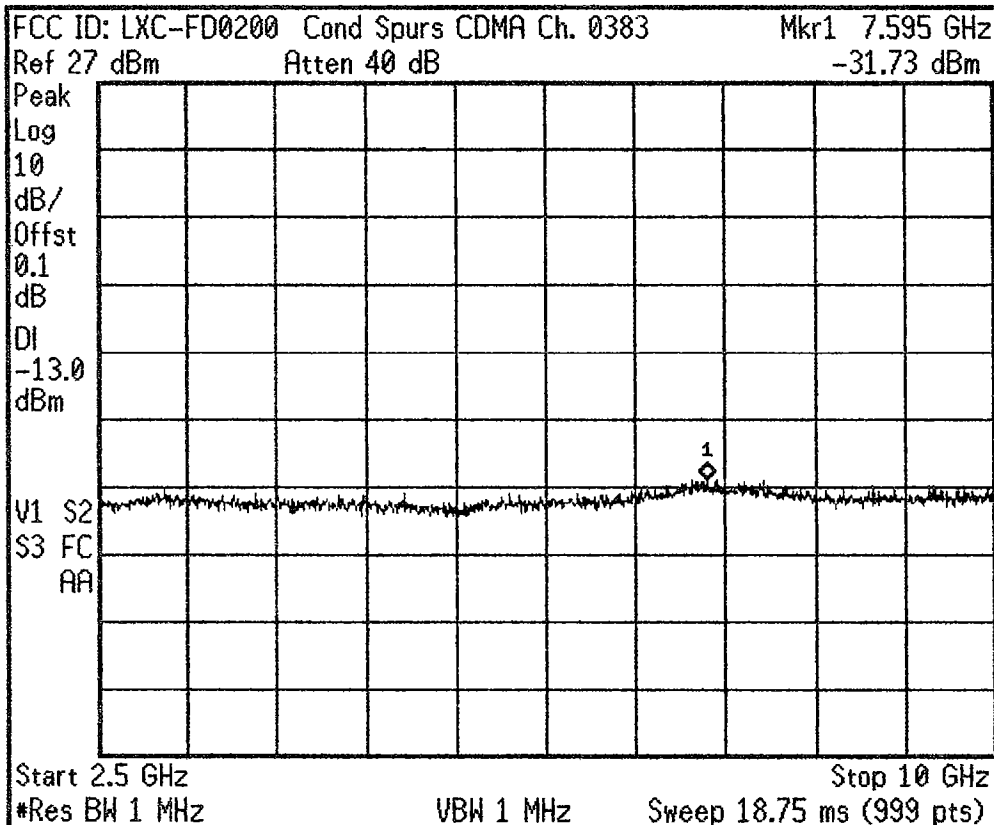
Stop Freq
 2.50000000 GHz

CF Step
 249.000000 MHz
 Auto Man

Freq Offset
 0.00000000 Hz

Signal Track
 On Off

Agilent 10:02:31 Jan 22, 2002



Freq/Channel

Center Freq
 6.25000000 GHz

Start Freq
 2.50000000 GHz

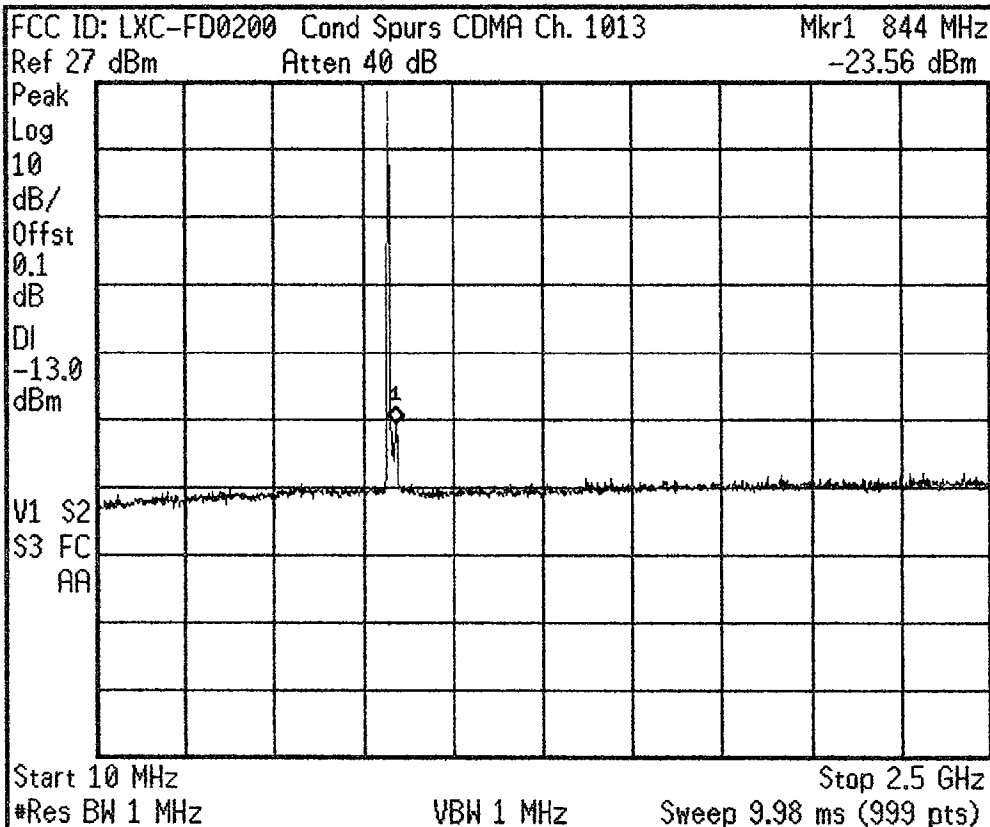
Stop Freq
 10.0000000 GHz

CF Step
 750.000000 MHz
 Auto Man

Freq Offset
 0.00000000 Hz

Signal Track
 On Off

* Agilent 09:56:16 Jan 22, 2002



Freq/Channel

Center Freq
 1.25500000 GHz

Start Freq
 10.0000000 MHz

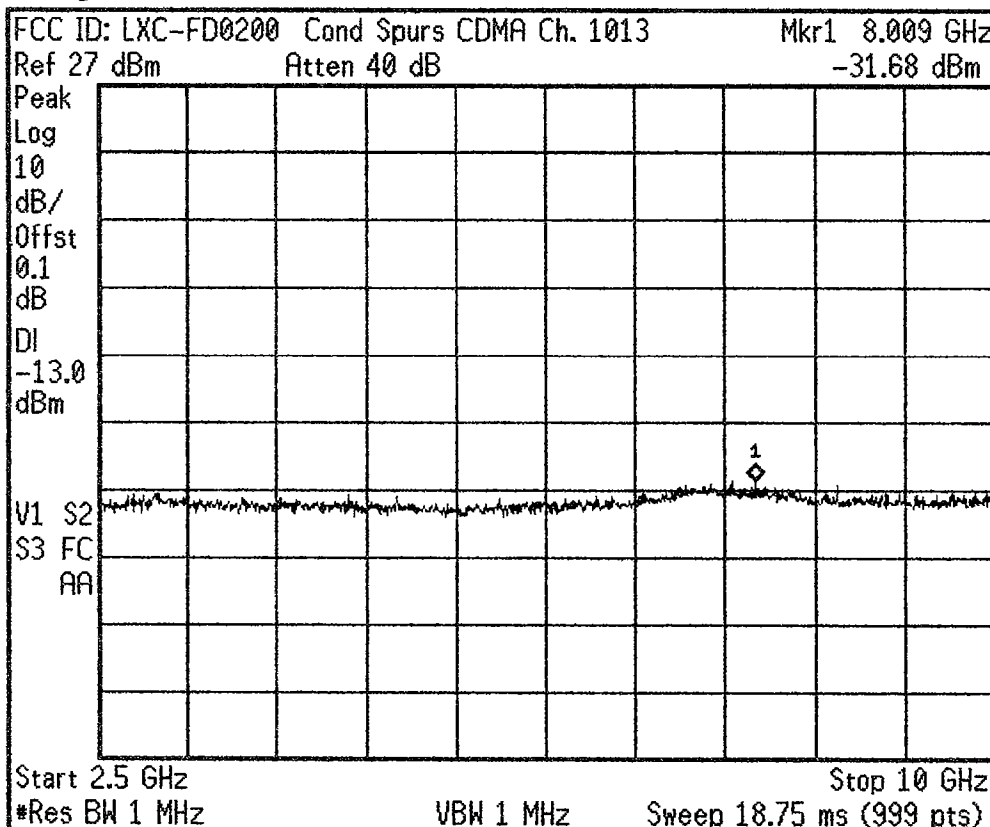
Stop Freq
 2.50000000 GHz

CF Step
 249.000000 MHz
 Auto Man

Freq Offset
 0.00000000 Hz

Signal Track
 On Off

* Agilent 09:57:02 Jan 22, 2002



Freq/Channel

Center Freq
 6.25000000 GHz

Start Freq
 2.50000000 GHz

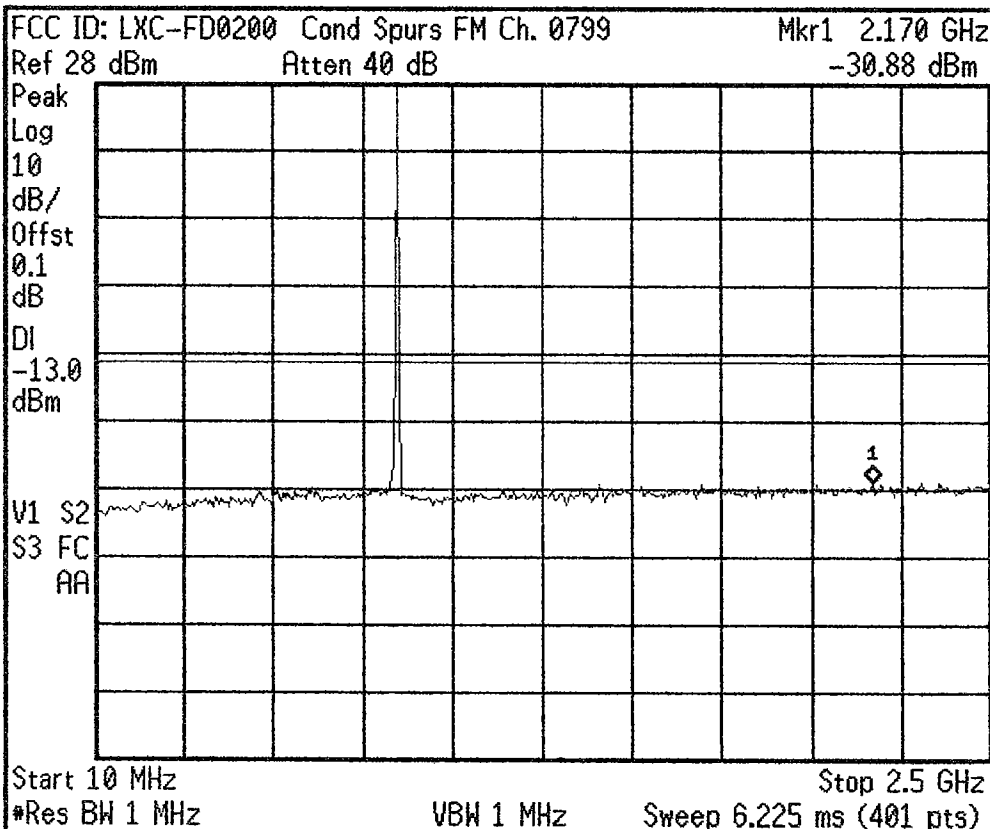
Stop Freq
 10.0000000 GHz

CF Step
 750.000000 MHz
 Auto Man

Freq Offset
 0.00000000 Hz

Signal Track
 On Off

✱ Agilent 09:48:25 Jan 22, 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

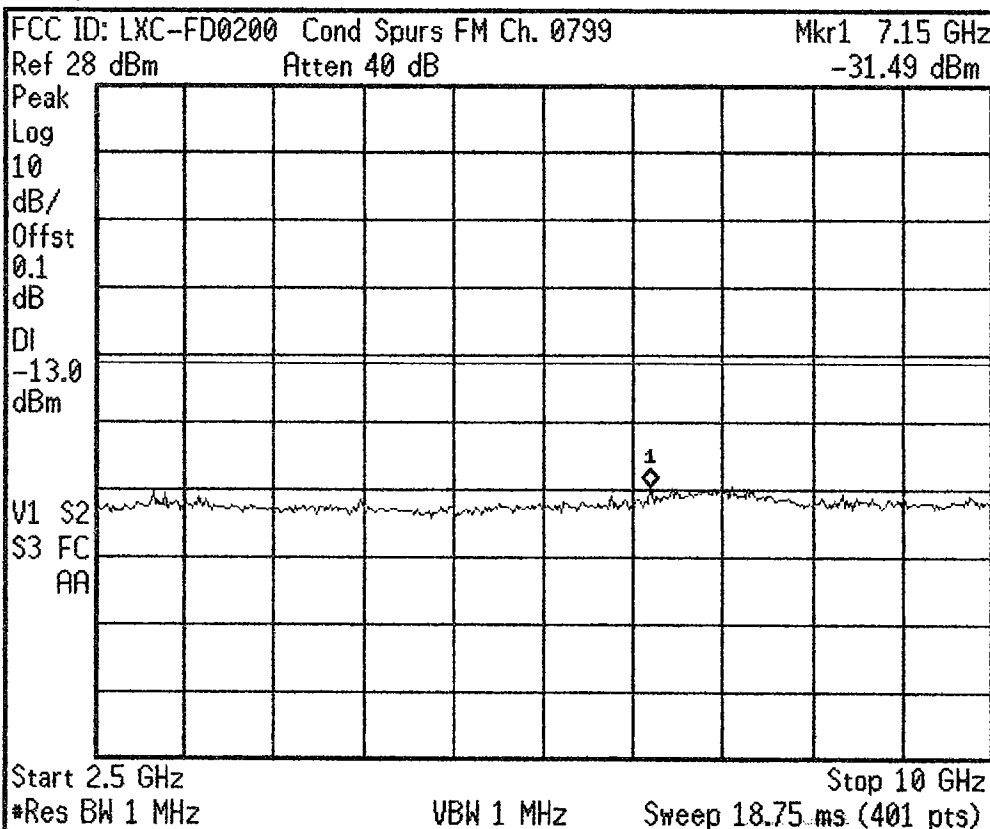
Freq Offset

0.00000000 Hz

Signal Track

On Off

✱ Agilent 09:49:06 Jan 22, 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

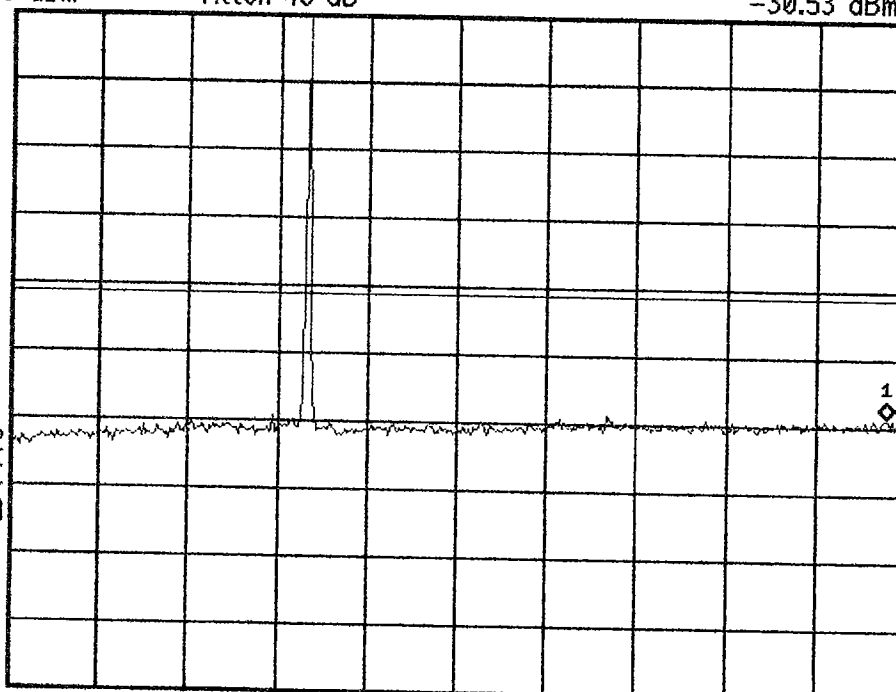
On Off

* Agilent 09:46:40 Jan 22, 2002

FCC ID: LXC-FD0200 Cond Spurs FM Ch. 0383 Mkr1 2.444 GHz
 Ref 28 dBm Atten 40 dB -30.53 dBm

Peak
 Log
 10
 dB/
 Offst
 0.1
 dB
 DI
 -13.0
 dBm

V1 S2
 S3 FC
 AA



Start 10 MHz Stop 2.5 GHz
 *Res BW 1 MHz VBW 1 MHz Sweep 6.225 ms (401 pts)

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

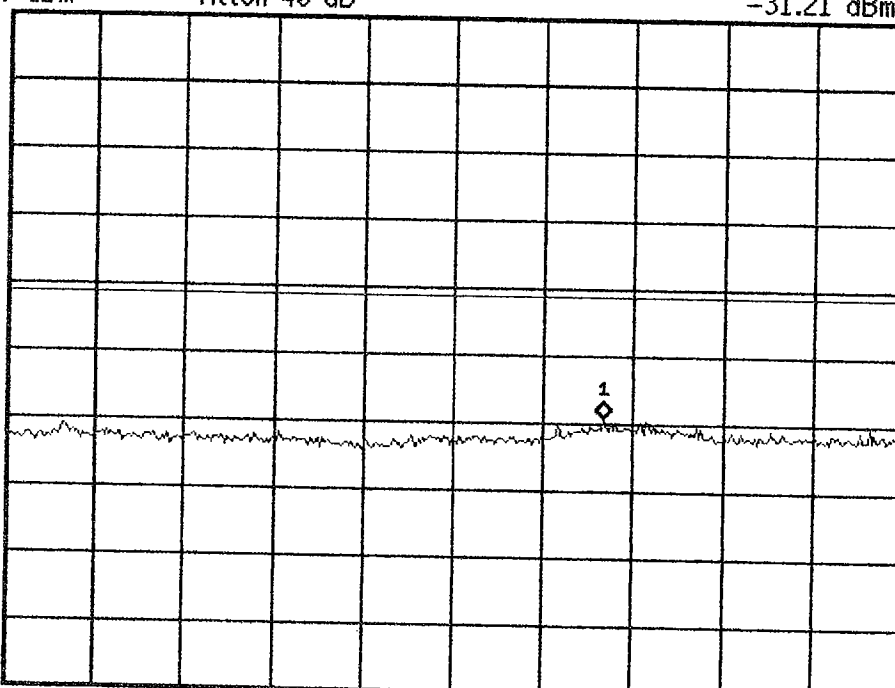
Signal Track
 On Off

* Agilent 09:47:20 Jan 22, 2002

FCC ID: LXC-FD0200 Cond Spurs FM Ch. 0383 Mkr1 7.51 GHz
 Ref 28 dBm Atten 40 dB -31.21 dBm

Peak
 Log
 10
 dB/
 Offst
 0.1
 dB
 DI
 -13.0
 dBm

V1 S2
 S3 FC
 AA



Start 2.5 GHz Stop 10 GHz
 *Res BW 1 MHz VBW 1 MHz Sweep 18.75 ms (401 pts)

Freq/Channel

Center Freq
 6.25000000 GHz

Start Freq
 2.50000000 GHz

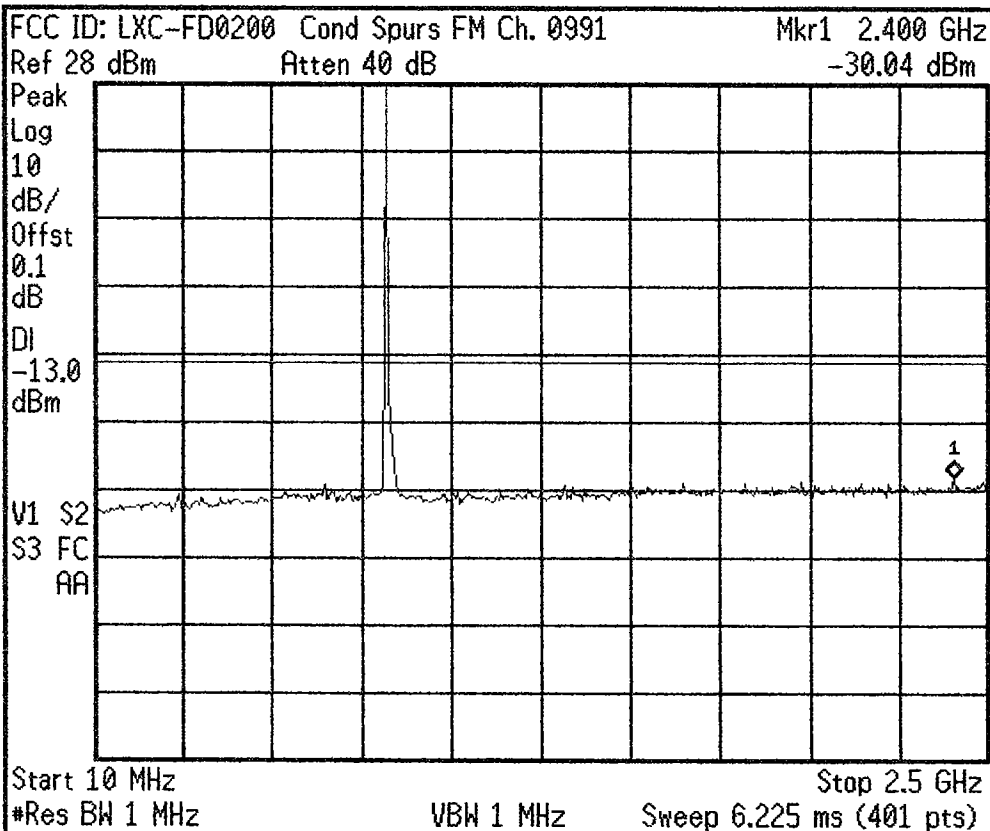
Stop Freq
 10.0000000 GHz

CF Step
 750.000000 MHz
 Auto Man

Freq Offset
 0.00000000 Hz

Signal Track
 On Off

Agilent 09:44:10 Jan 22, 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

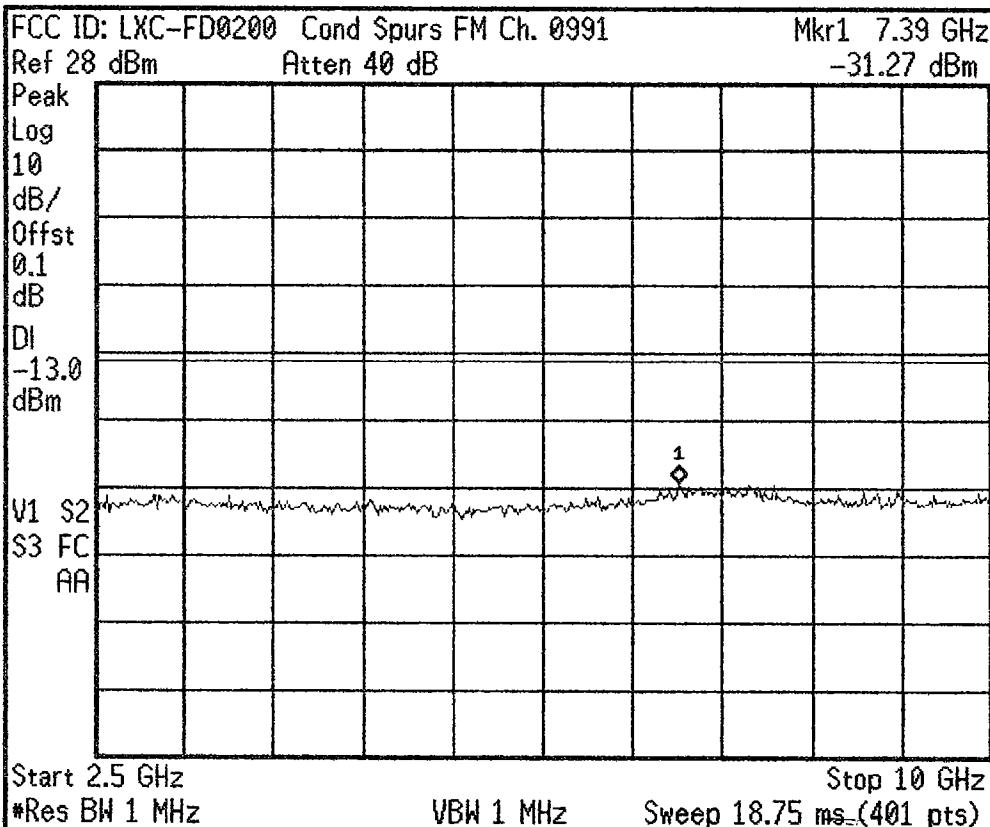
Freq Offset

0.00000000 Hz

Signal Track

On Off

Agilent 09:45:33 Jan 22, 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

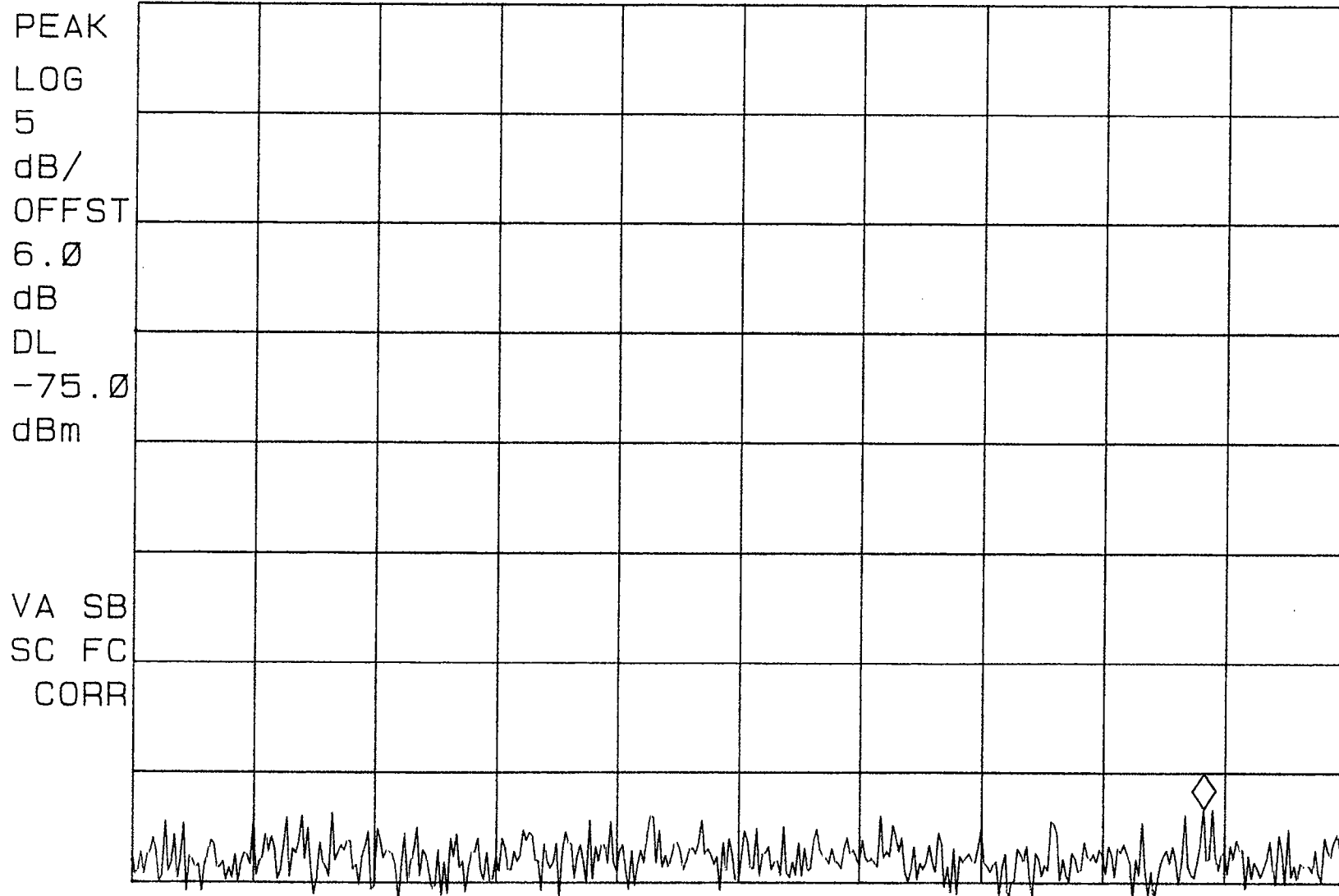
Freq Offset

0.00000000 Hz

Signal Track

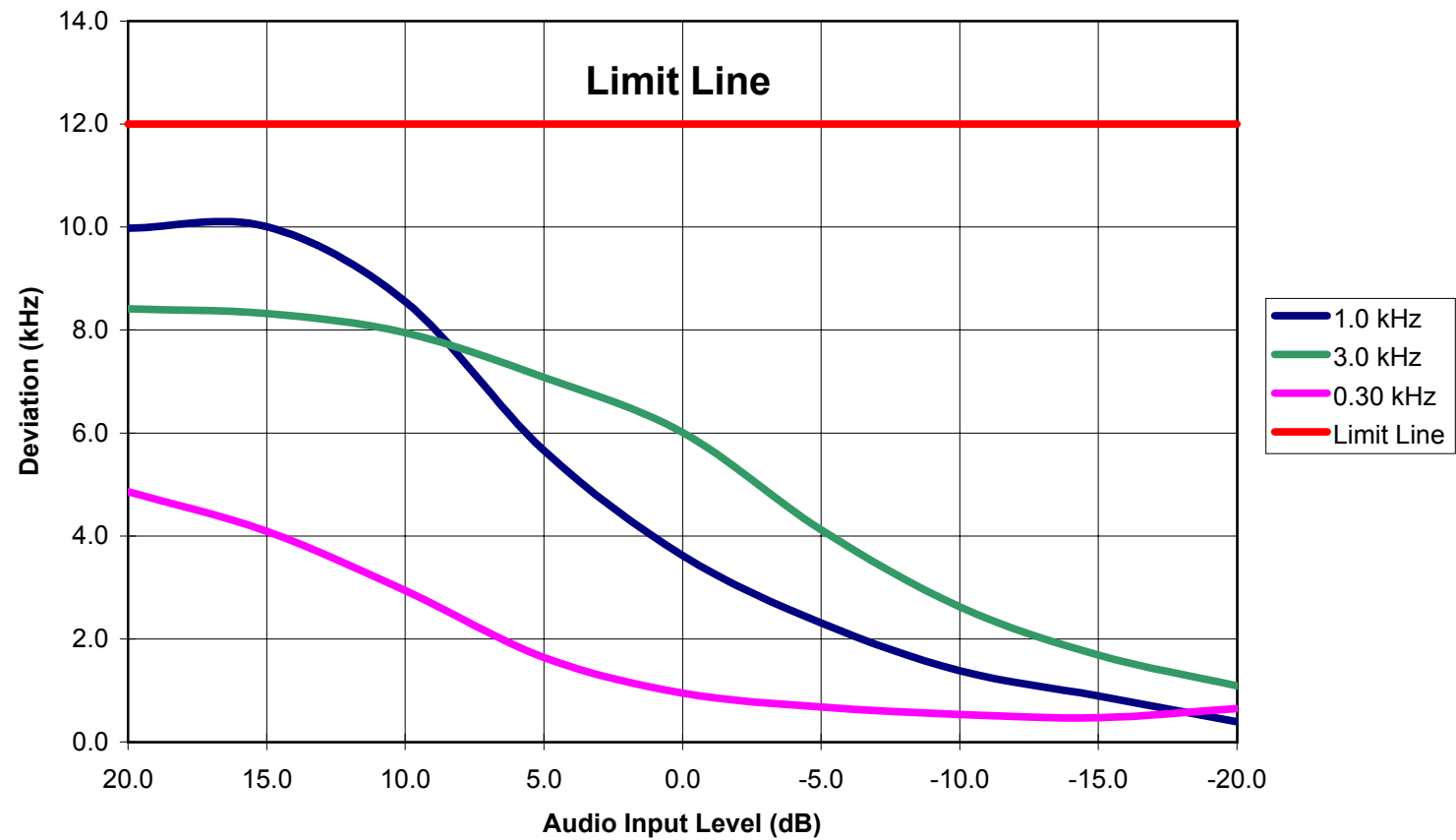
On Off

⚡ FCC ID: LXC-FD0200 FM MODE MKR 891.06 MHz
REF -60.0 dBm #ATTEN 10 dB PG 25.0 dB -96.60 dBm

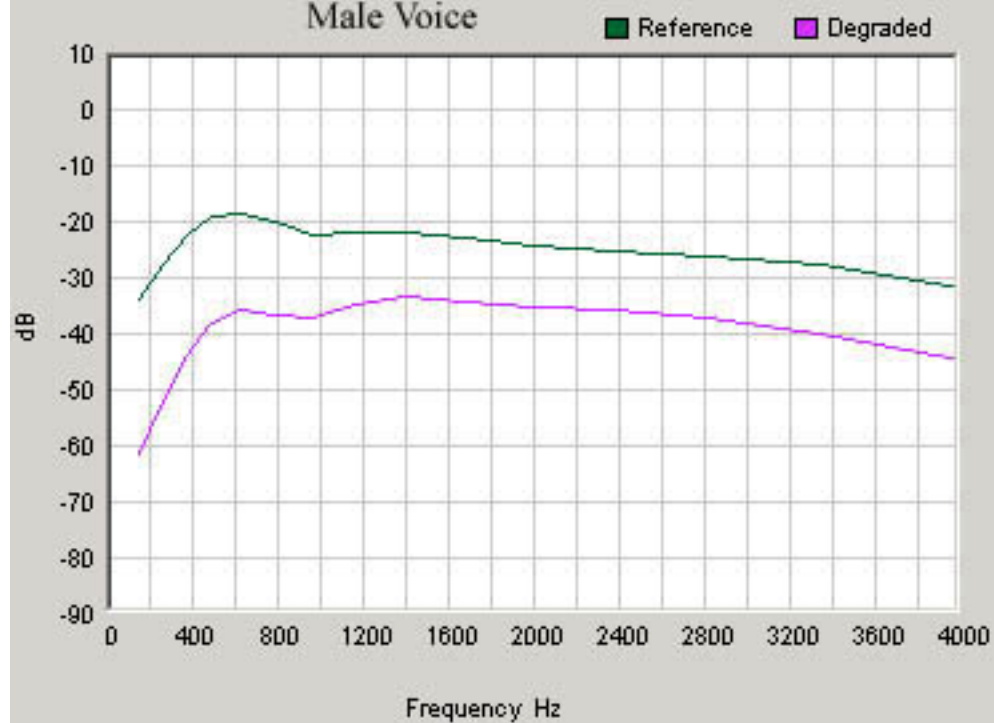


START 869.00 MHz STOP 894.00 MHz
#RES BW 100 kHz #VBW 300 kHz SWP 20 msec

Modulation Limiting



Transmit Audio Frequency Response Male Voice



Transmit Audio Frequency Response

Female Voice

