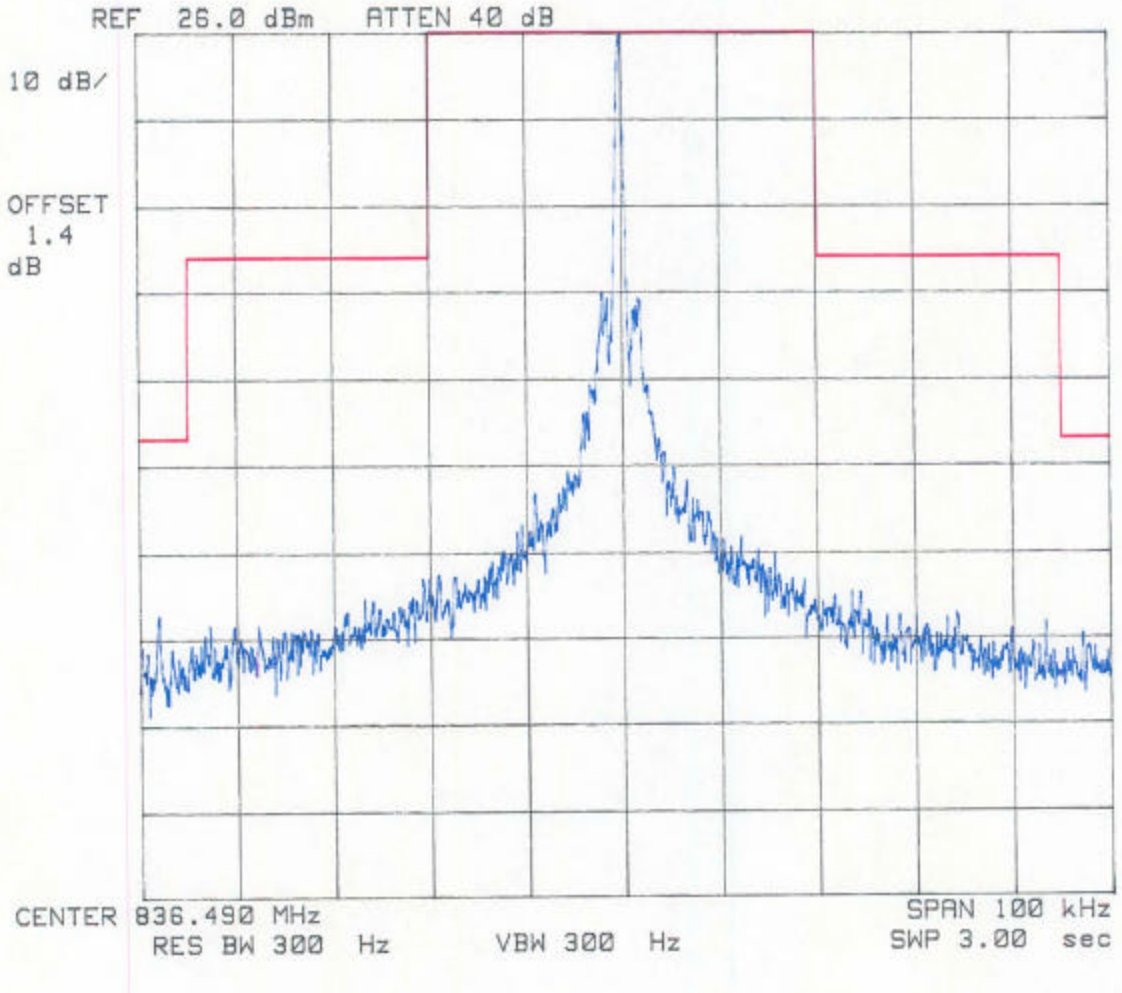
PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:A3LSPHA680
SAMSUNG
Tri-Mode Phone
FM Channel 383
Operating Frequency: 836.490 MHz
Output Power : 26.0 dBm

Test Mode:Unmodulated Signal

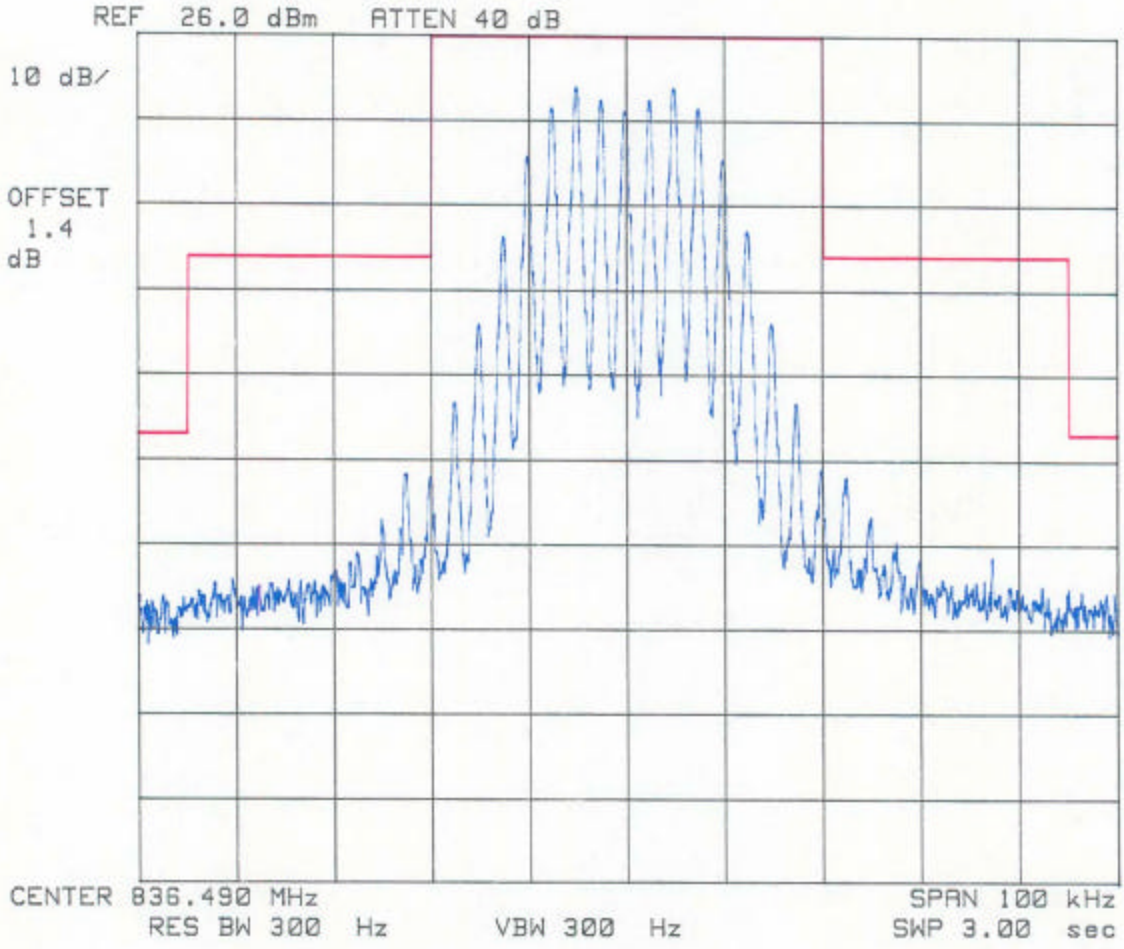


PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:A3LSPHA680
SAMSUNG
Tri-Mode Phone
FM Channel 383
Operating Frequency: 836.490 MHz
Output Power : 26.0 dBm

Test Mode:Voice

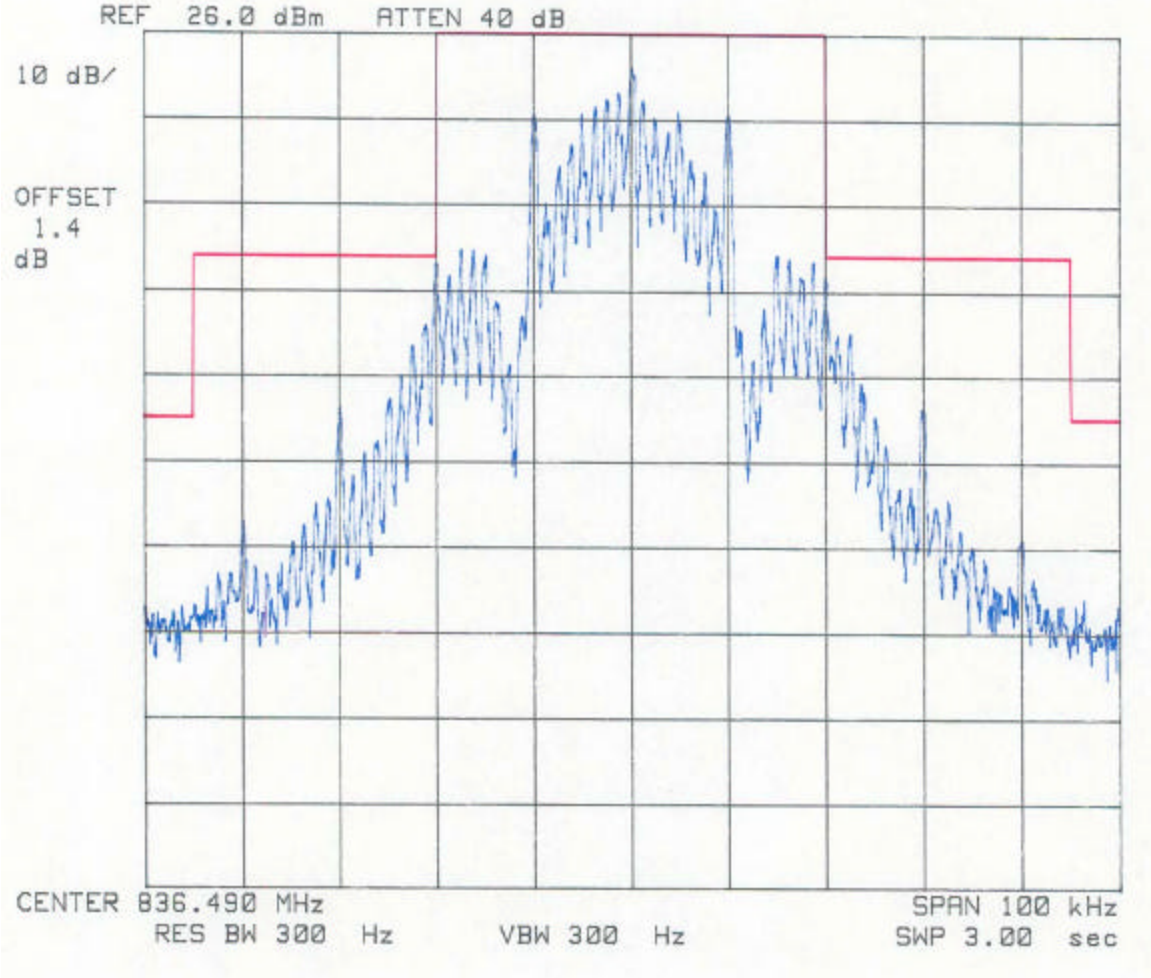


PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:A3LSPHA680
SAMSUNG
Tri-Mode Phone
FM Channel 383
Operating Frequency: 836.490 MHz
Output Power : 26.0 dBm

Test Mode:Wide Band Data

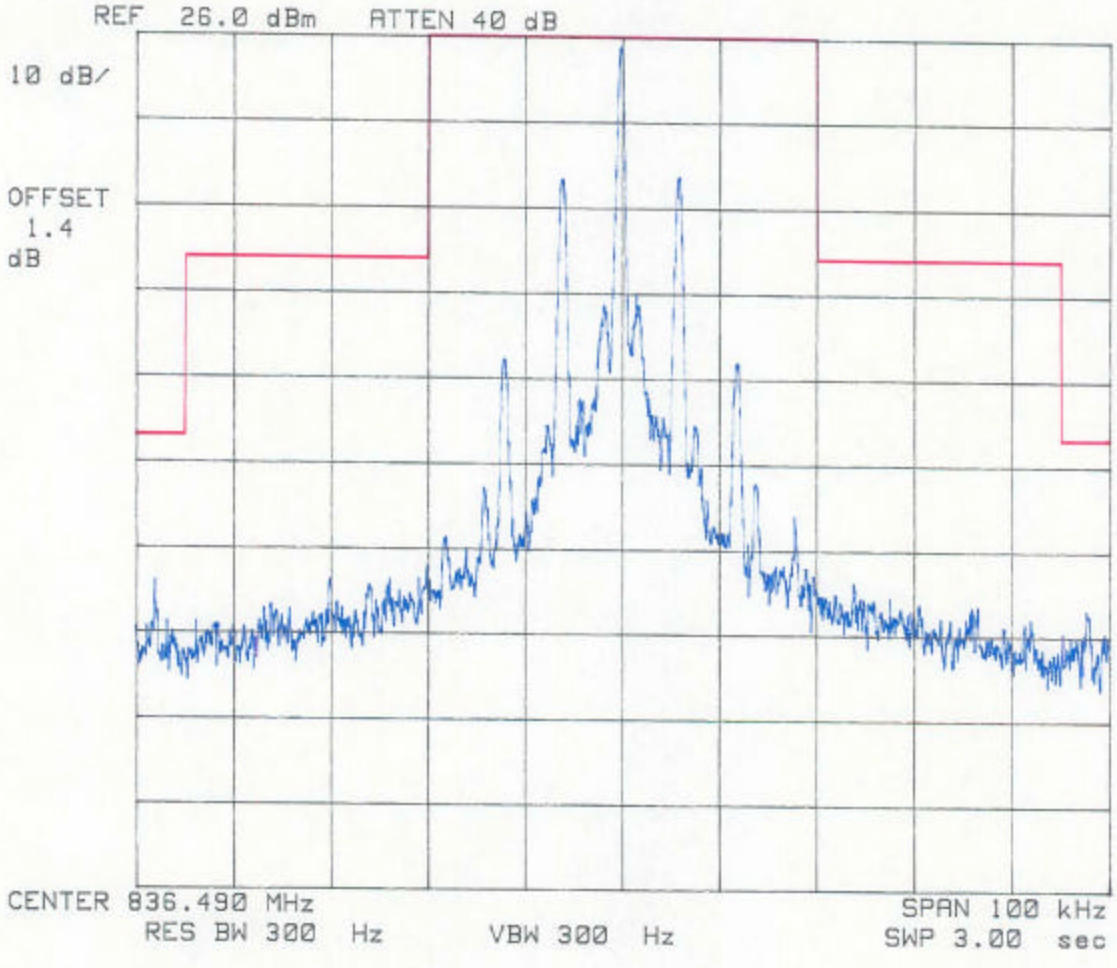


PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:A3LSPHA680
SAMSUNG
Tri-Mode Phone
FM Channel 383
Operating Frequency: 836.490 MHz
Output Power : 26.0 dBm

Test Mode:SAT

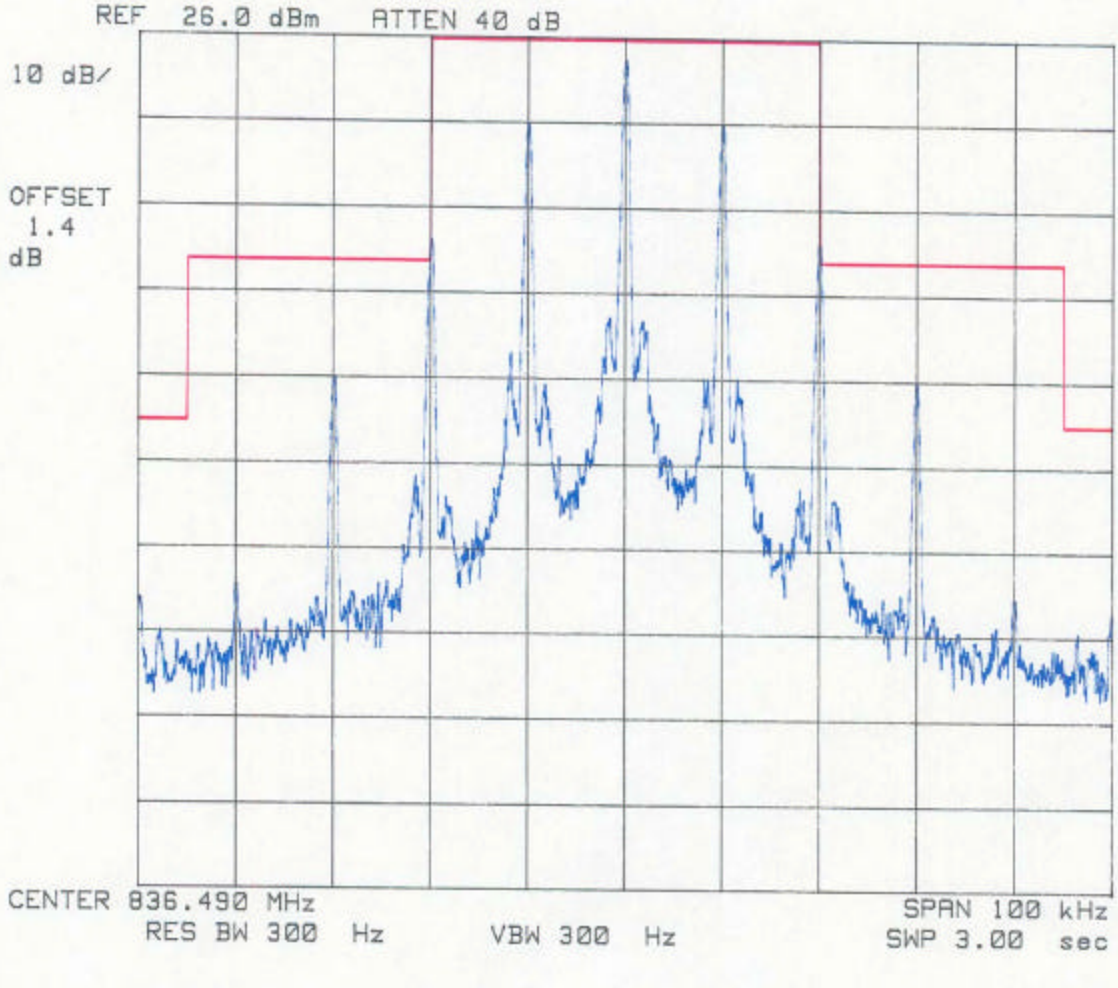


PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:A3LSPHA680
SAMSUNG
Tri-Mode Phone
FM Channel 383
Operating Frequency: 836.490 MHz
Output Power : 26.0 dBm

Test Mode:ST

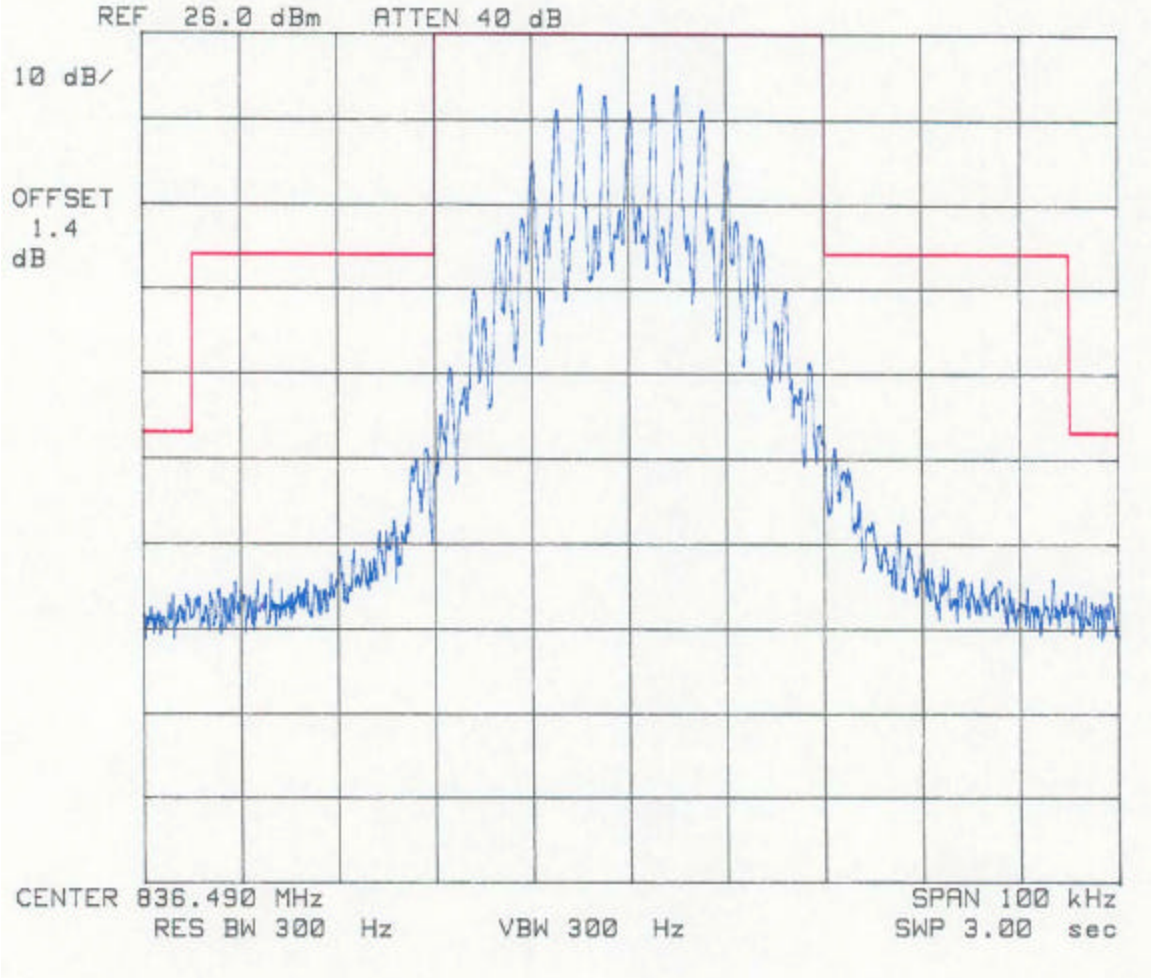


PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:A3LSPHA680
SAMSUNG
Tri-Mode Phone
FM Channel 383
Operating Frequency: 836.490 MHz
Output Power : 26.0 dBm

Test Mode:SAT + Voice

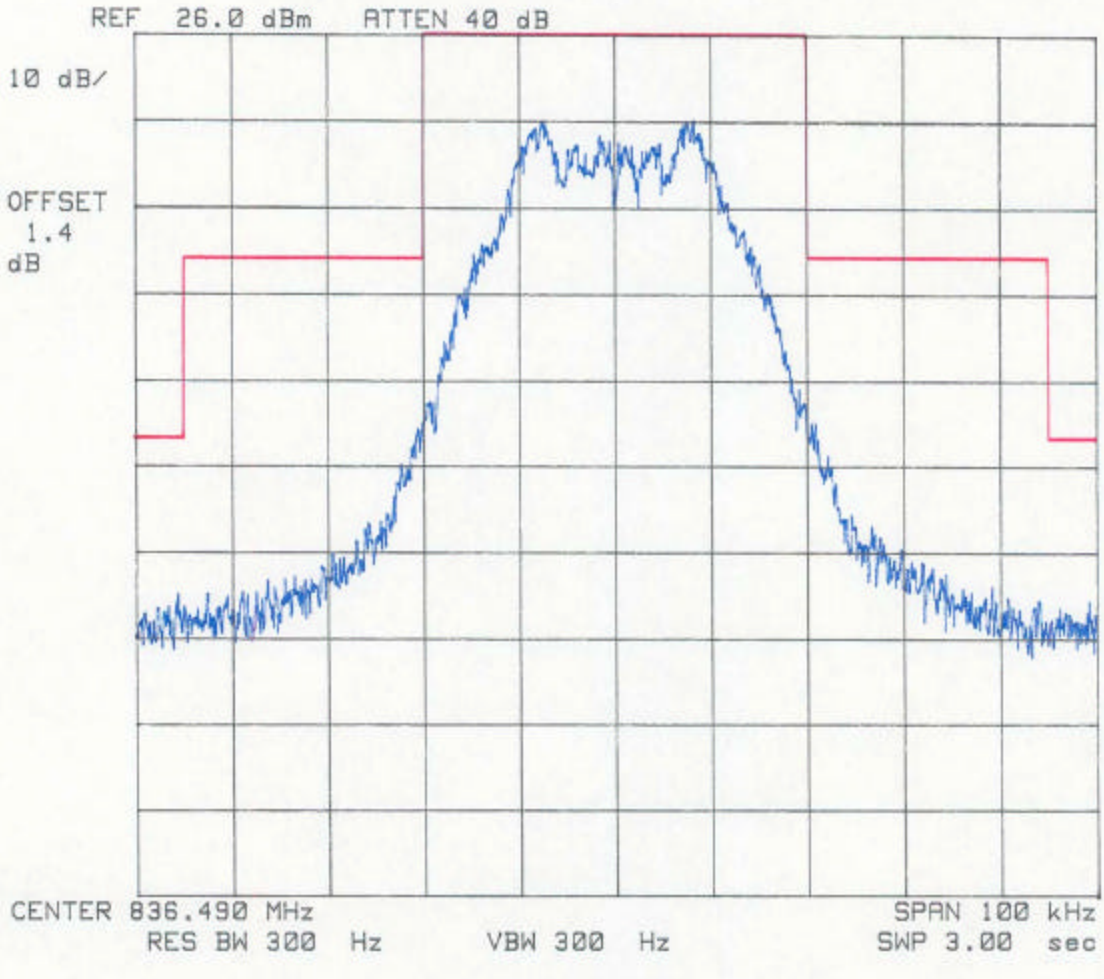


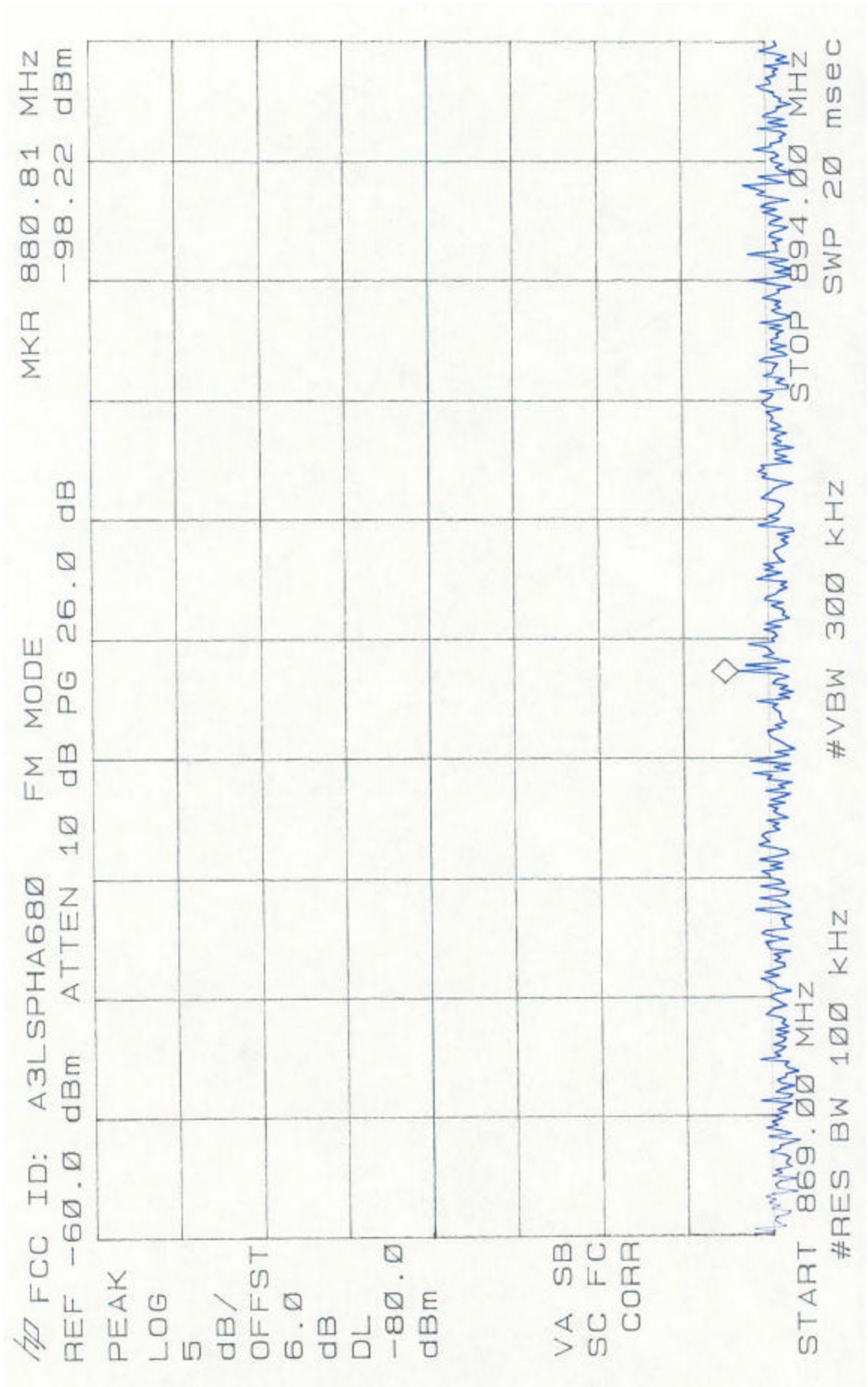
PCTEST Engineering Lab.

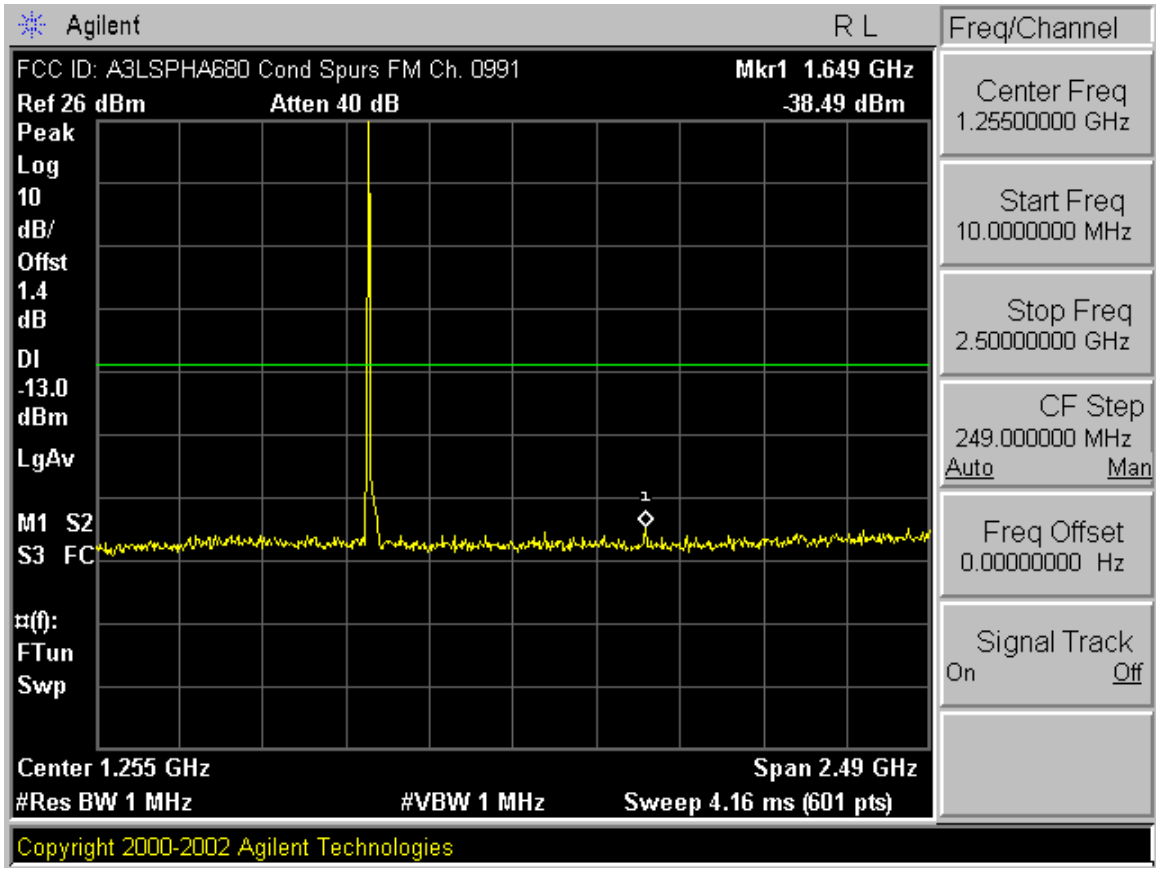
SPECTRUM ANALYZER PRESENTATION

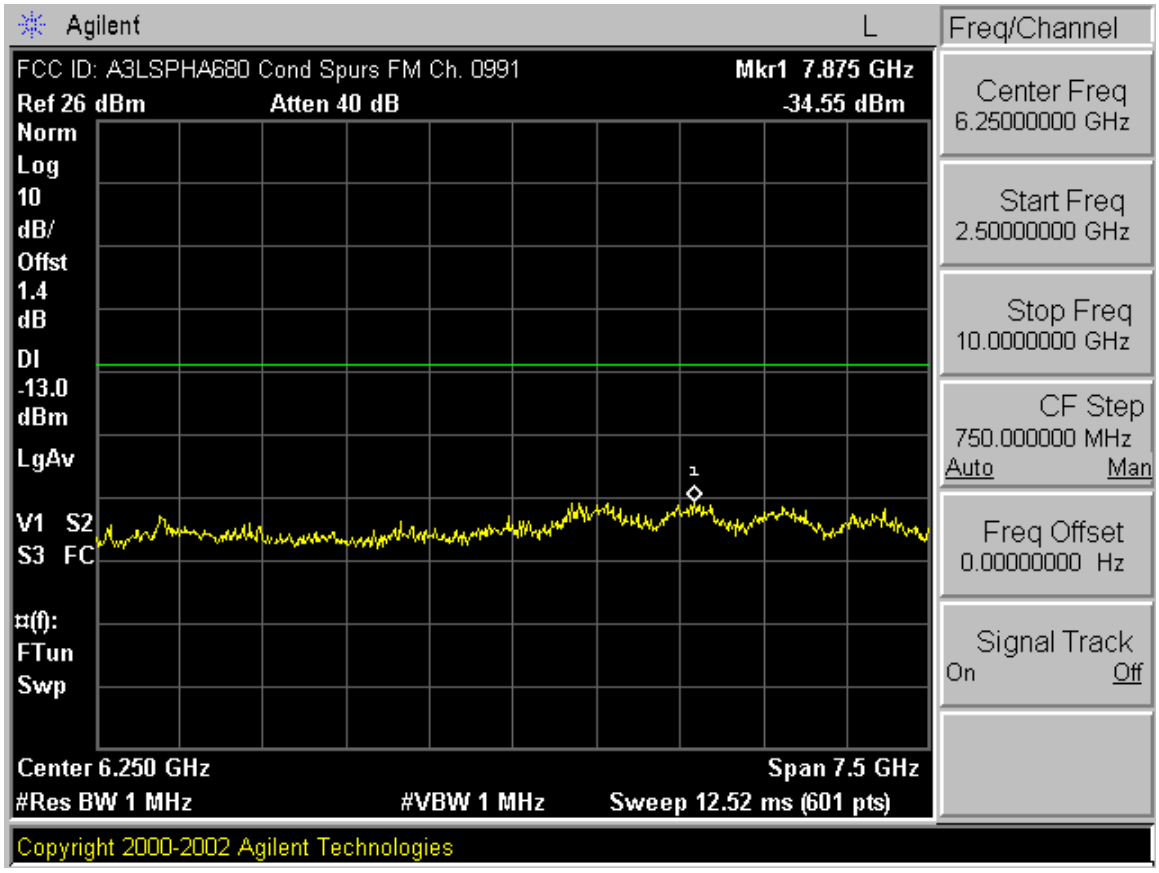
FCC ID:A3LSPHA680
SAMSUNG
Tri-Mode Phone
FM Channel 383
Operating Frequency: 836.490 MHz
Output Power : 26.0 dBm

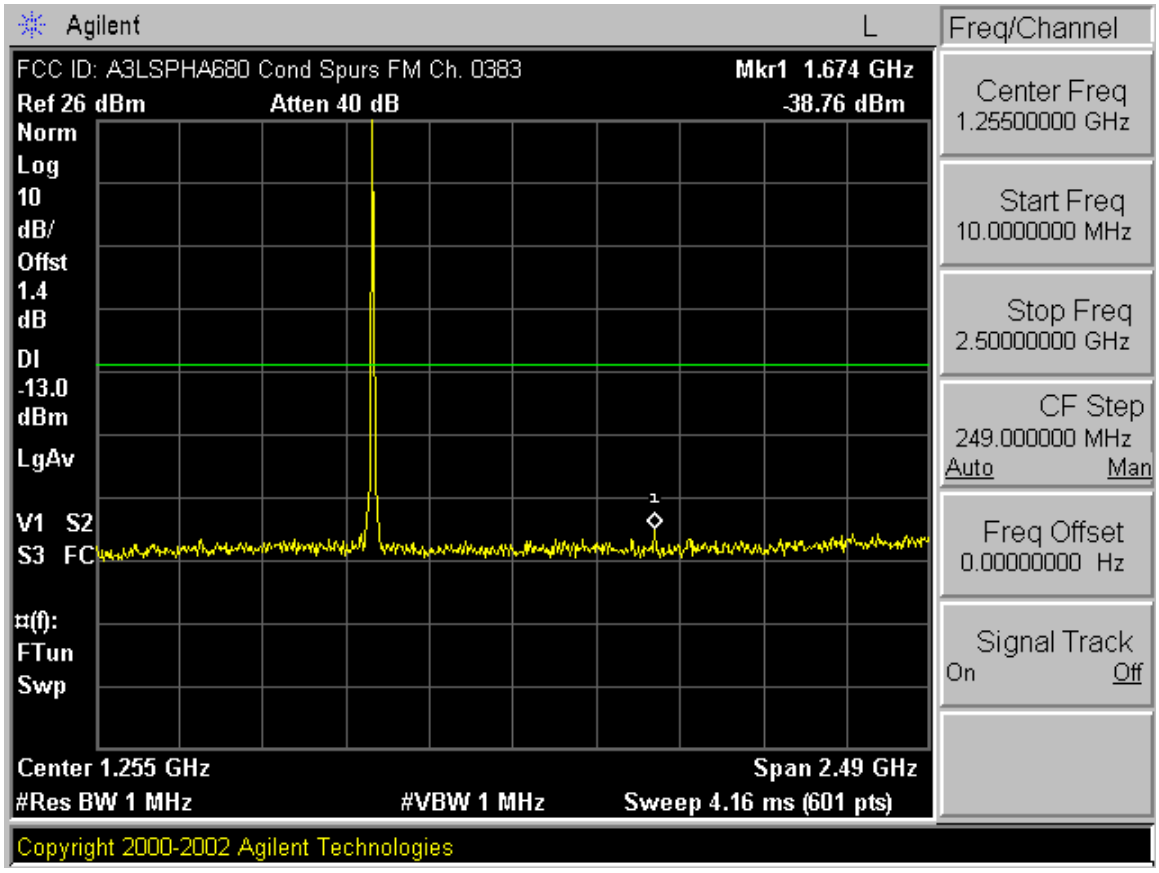
Test Mode:SAT + DTMF

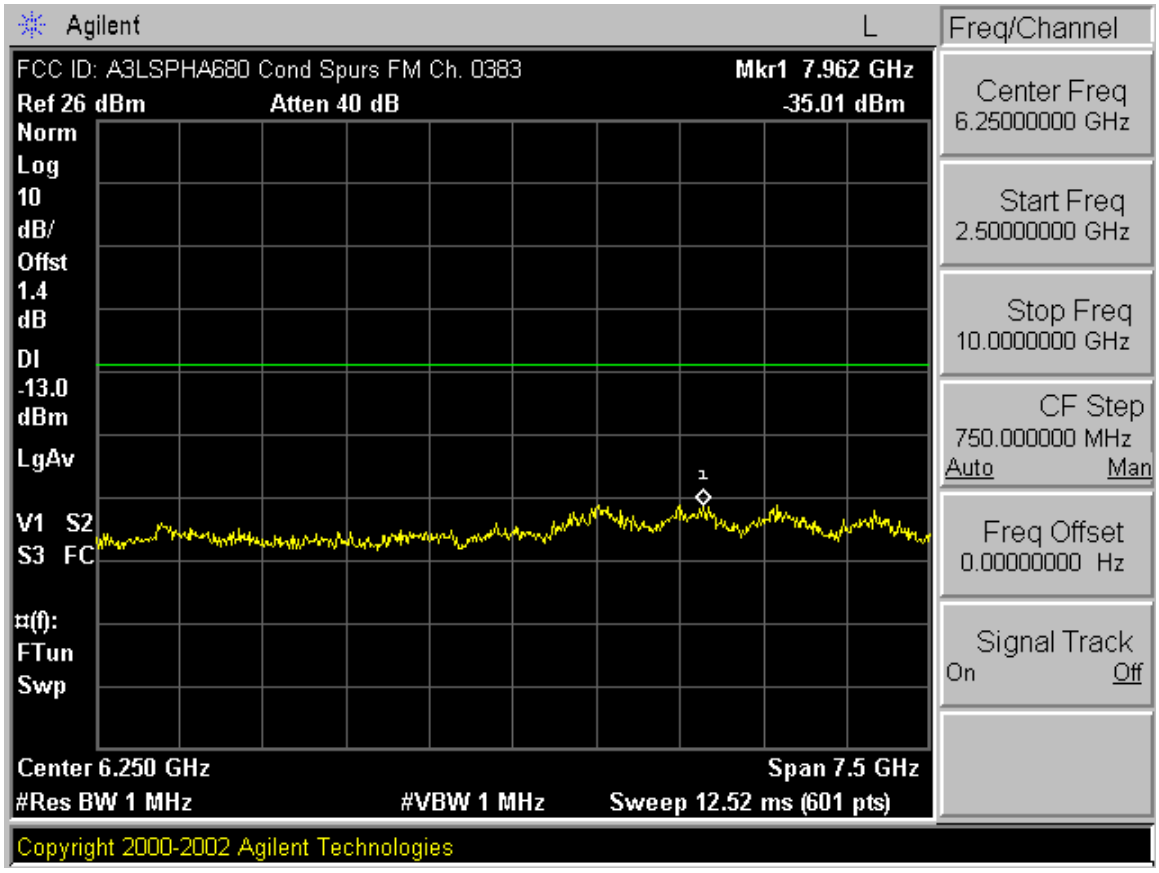


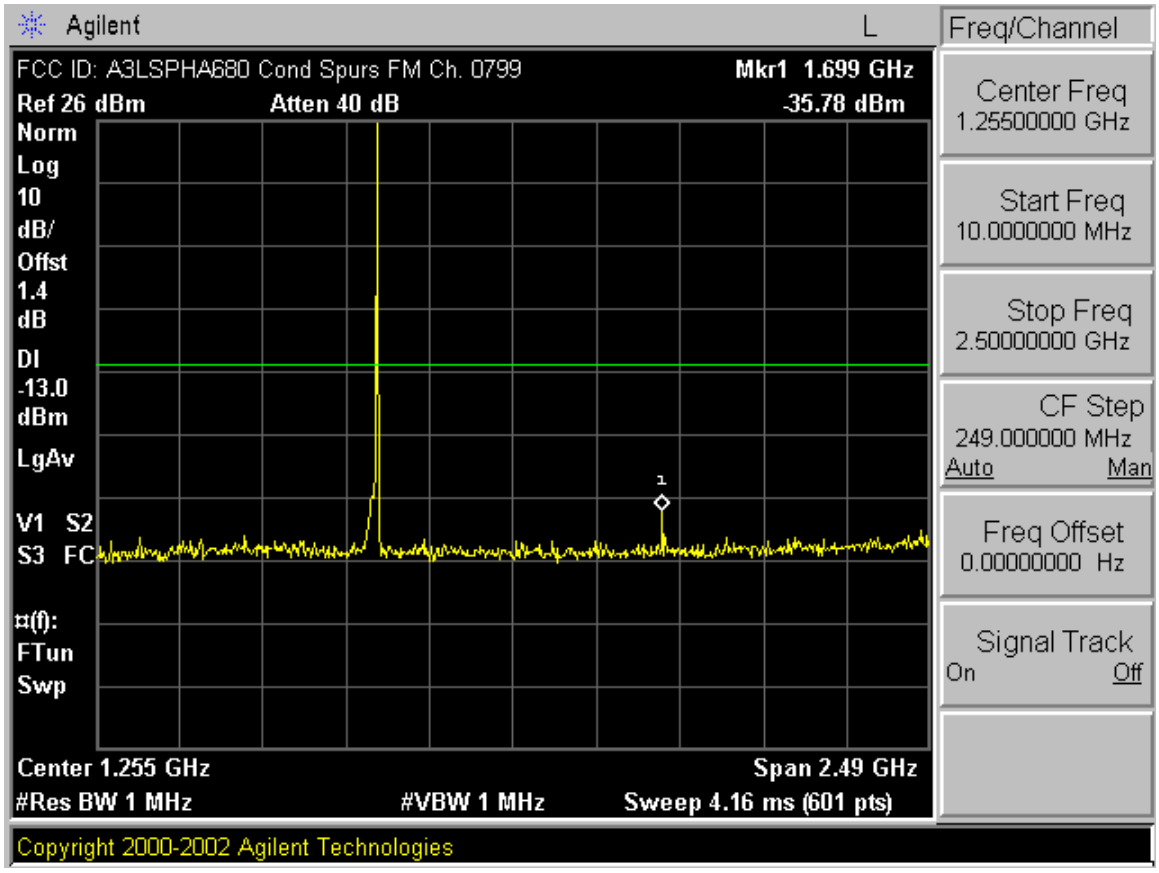

FCC ID: A3LSPHA680 FM MODE
REF -60.0 dBm ATTEN 10 dB PG 26.0 dB
MKR 880.81 MHz
-98.22 dBm
PEAK
LOG
5
dB/
OFFST
6.0
dB
DL
-80.0
dBm
VA SB
SC FC
CORR
START 869.00 MHz
#RES BW 100 kHz
#VBW 300 kHz
STOP 894.00 MHz
SWP 20 msec

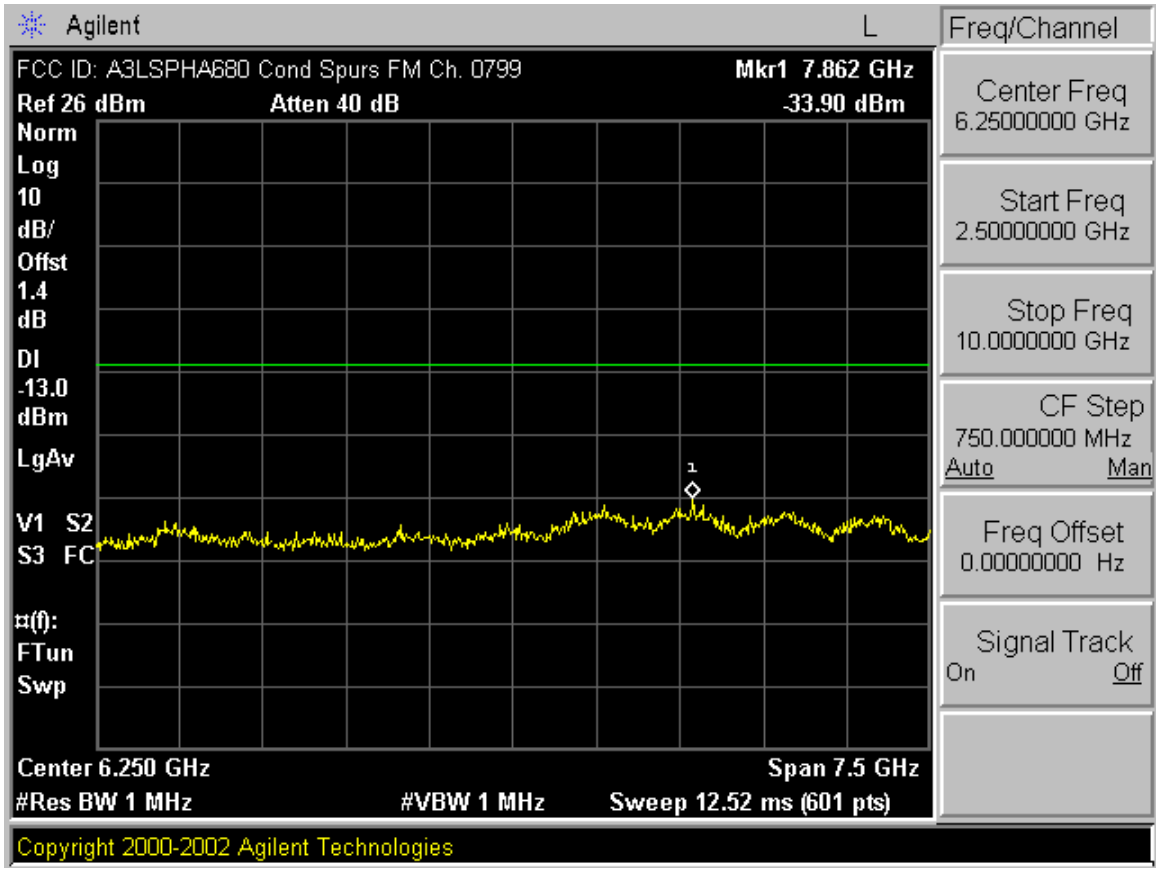

Agilent
R L
Freq/Channel
FCC ID: A3LSPHA680 Cond Spurs FM Ch. 0991
Mkr1 1.649 GHz
Ref 26 dBm
Atten 40 dB
-38.49 dBm
Peak
Log
10
dB/
Offst
1.4
dB
Dl
-13.0
dBm
LgAv
M1 S2
S3 FC
¤(f):
FTun
Swp
Center Freq
1.25500000 GHz
Start Freq
10.0000000 MHz
Stop Freq
2.50000000 GHz
CF Step
249.000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
Center 1.255 GHz
Span 2.49 GHz
#Res BW 1 MHz
#VBW 1 MHz
Sweep 4.16 ms (601 pts)
Copyright 2000-2002 Agilent Technologies

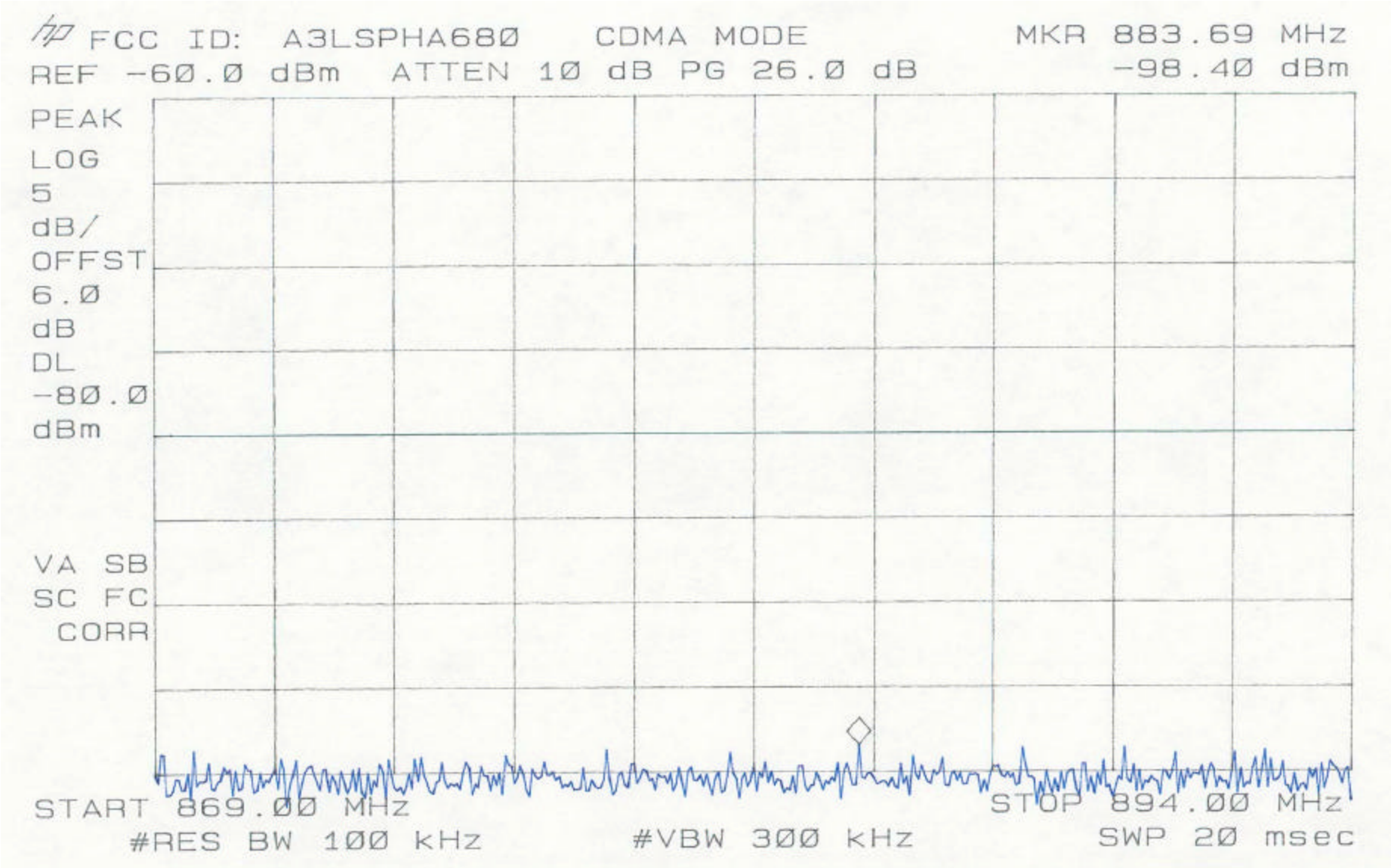

Agilent
L
Freq/Channel
FCC ID: A3LSPHA680 Cond Spurs FM Ch. 0991
Mkr1 7.875 GHz
Ref 26 dBm
Atten 40 dB
-34.55 dBm
Norm
Log
10
dB/
Offst
1.4
dB
Dl
-13.0
dBm
LgAv
V1 S2
S3 FC
¤(f):
FTun
Swp
Center Freq
6.25000000 GHz
Start Freq
2.50000000 GHz
Stop Freq
10.0000000 GHz
CF Step
750.000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
Center 6.250 GHz
Span 7.5 GHz
#Res BW 1 MHz
#VBW 1 MHz
Sweep 12.52 ms (601 pts)
Copyright 2000-2002 Agilent Technologies

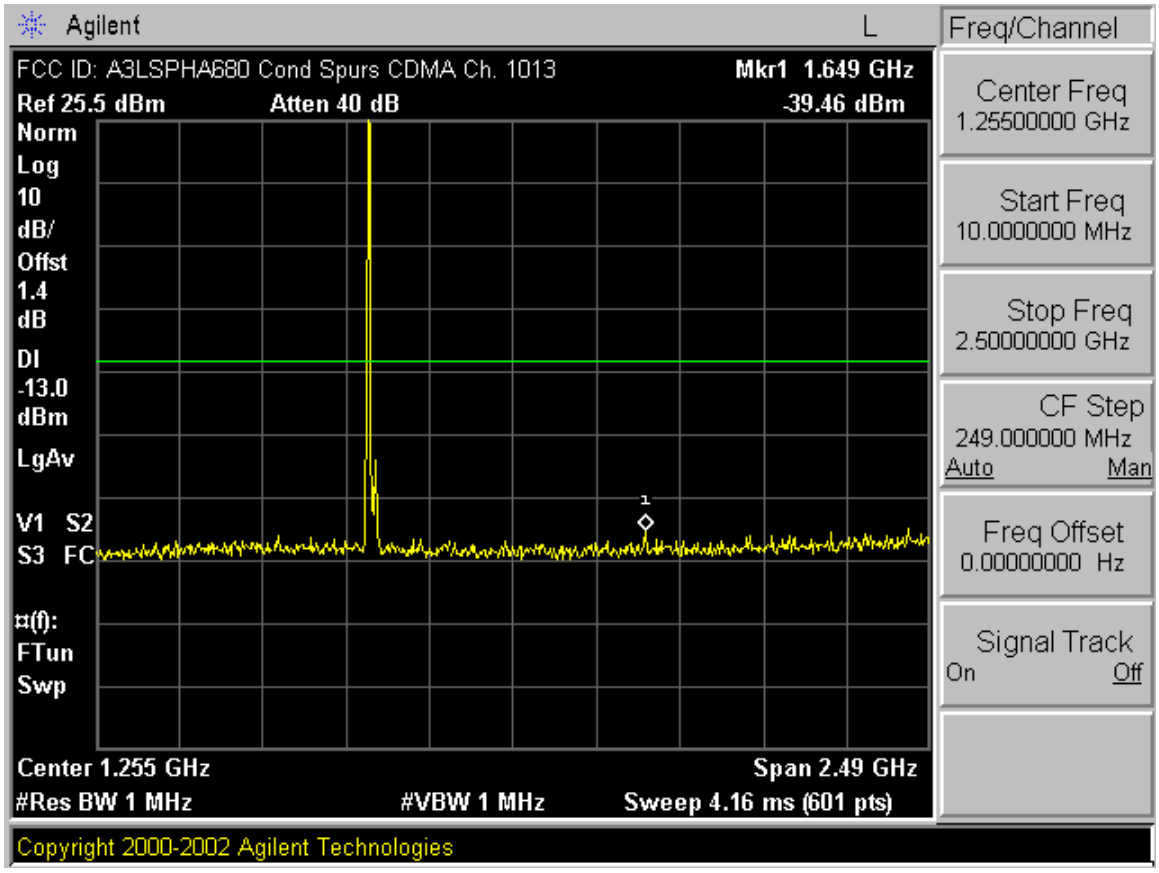

Agilent
L
Freq/Channel
FCC ID: A3LSPHA680 Cond Spurs FM Ch. 0383
Mkr1 1.674 GHz
Ref 26 dBm
Atten 40 dB
-38.76 dBm
Norm
Log
10
dB/
Offst
1.4
dB
Dl
-13.0
dBm
LgAv
V1 S2
S3 FC
¤(f):
FTun
Swp
Center 1.255 GHz
Span 2.49 GHz
#Res BW 1 MHz
#VBW 1 MHz
Sweep 4.16 ms (601 pts)
Center Freq
1.25500000 GHz
Start 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
Copyright 2000-2002 Agilent Technologies

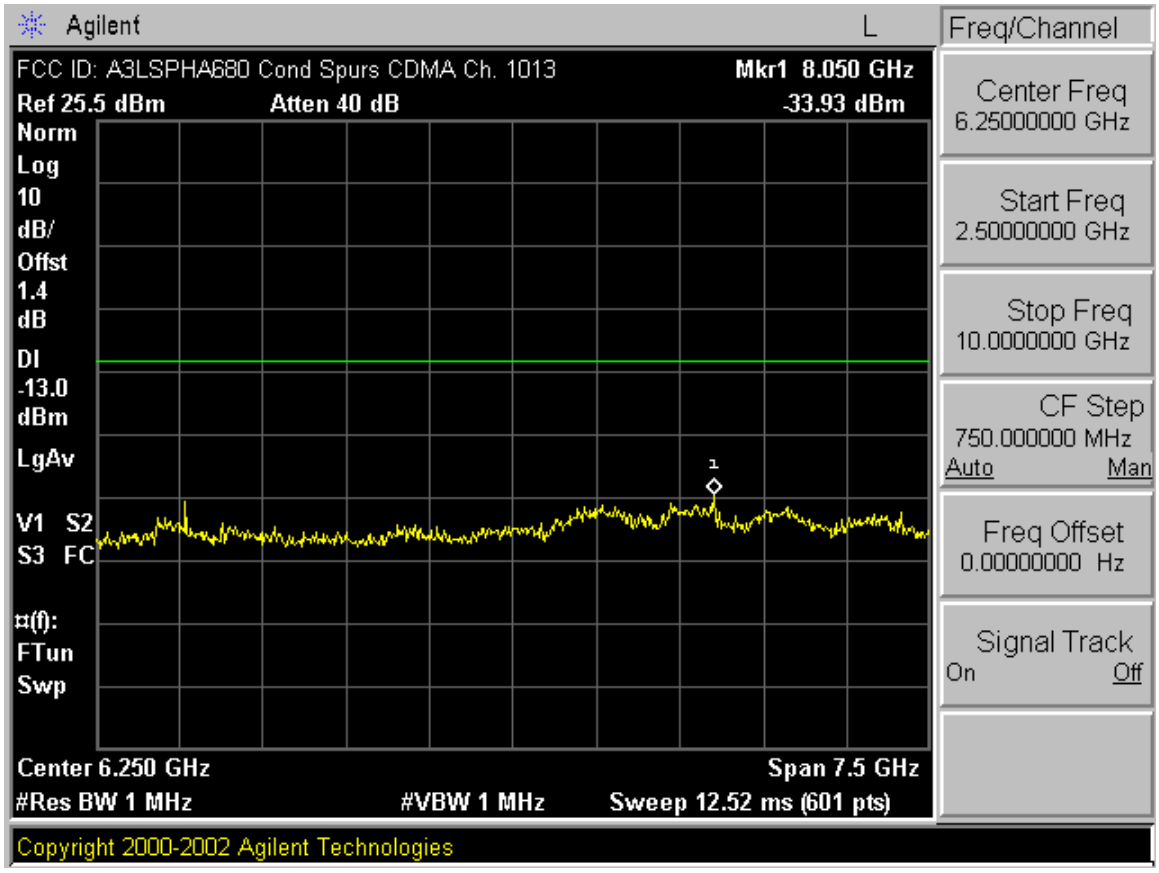

Agilent
L
Freq/Channel
FCC ID: A3LSPHA680 Cond Spurs FM Ch. 0383
Mkr1 7.962 GHz
Ref 26 dBm
Atten 40 dB
-35.01 dBm
Norm
Log
10
dB/
Offst
1.4
dB
Dl
-13.0
dBm
LgAv
V1 S2
S3 FC
¤(f):
FTun
Swp
Center 6.250 GHz
Span 7.5 GHz
#Res BW 1 MHz
#VBW 1 MHz
Sweep 12.52 ms (601 pts)
Center Freq
6.25000000 GHz
Start 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
Copyright 2000-2002 Agilent Technologies

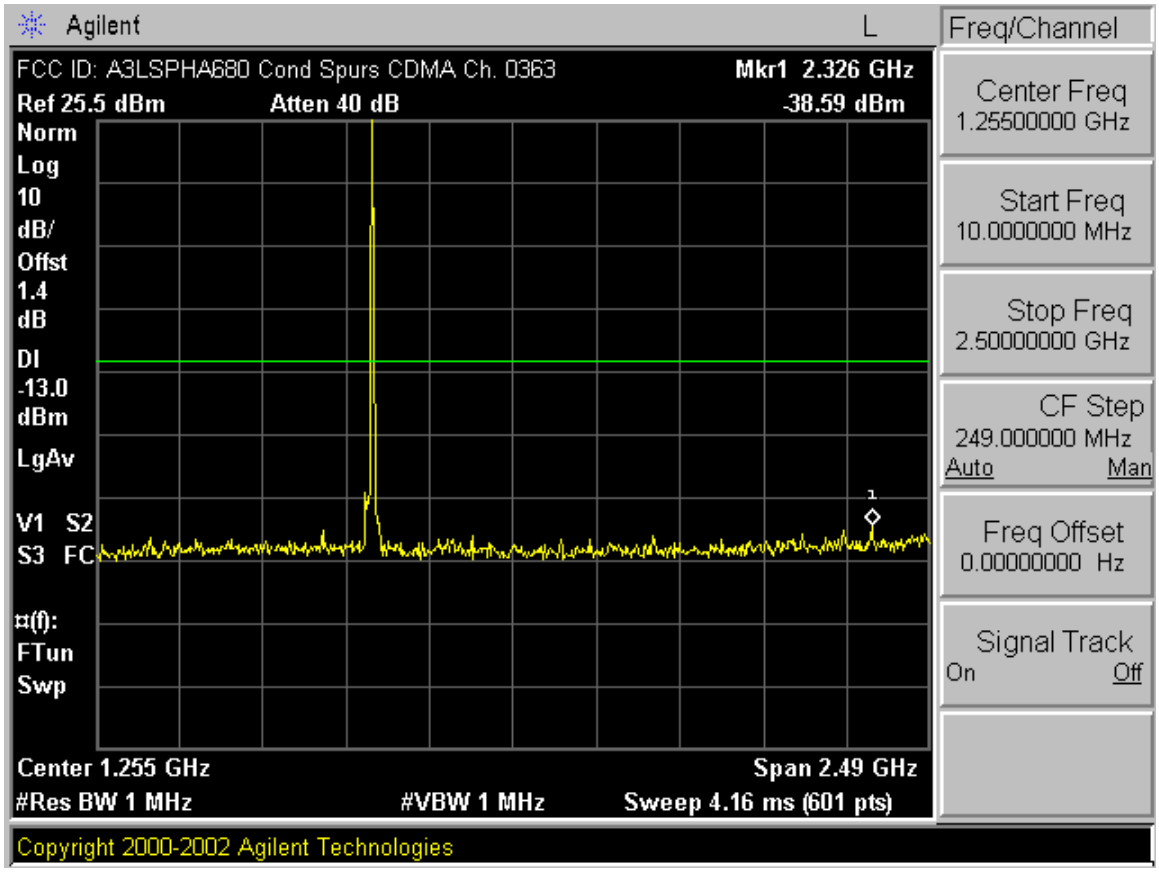

Agilent
L
Freq/Channel
FCC ID: A3LSPHA680 Cond Spurs FM Ch. 0799
Mkr1 1.699 GHz
Ref 26 dBm
Atten 40 dB
-35.78 dBm
Norm
Log
10
dB/
Offst
1.4
dB
Dl
-13.0
dBm
LgAv
V1 S2
S3 FC
¤(f):
FTun
Swp
Center 1.255 GHz
Span 2.49 GHz
#Res BW 1 MHz
#VBW 1 MHz
Sweep 4.16 ms (601 pts)
Center Freq
1.25500000 GHz
Start 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
Copyright 2000-2002 Agilent Technologies

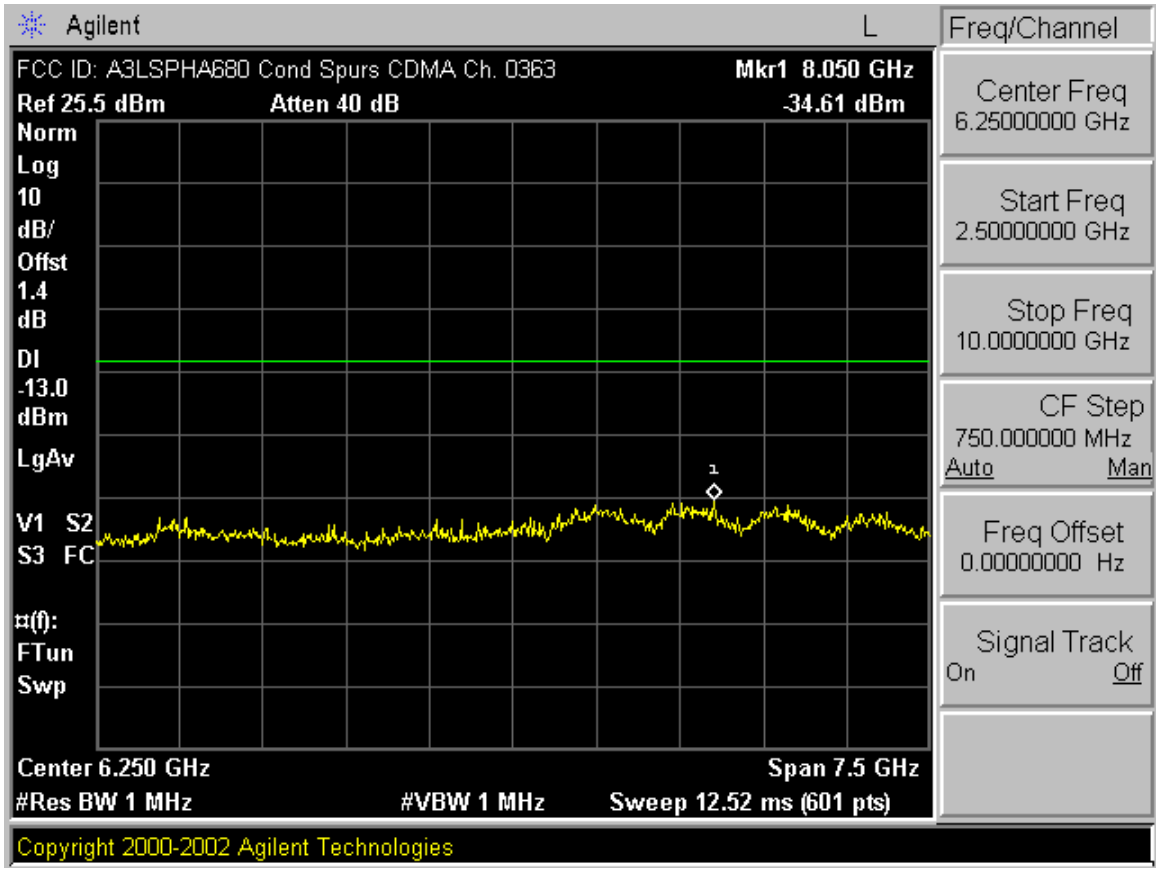

Agilent
L
Freq/Channel
FCC ID: A3LSPHA680 Cond Spurs FM Ch. 0799
Mkr1 7.862 GHz
Ref 26 dBm
Atten 40 dB
-33.90 dBm
Norm
Log
10
dB/
Offst
1.4
dB
Dl
-13.0
dBm
LgAv
V1 S2
S3 FC
¤(f):
FTun
Swp
Center 6.250 GHz
Span 7.5 GHz
#Res BW 1 MHz
#VBW 1 MHz
Sweep 12.52 ms (601 pts)
Center Freq
6.25000000 GHz
Start 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
Copyright 2000-2002 Agilent Technologies

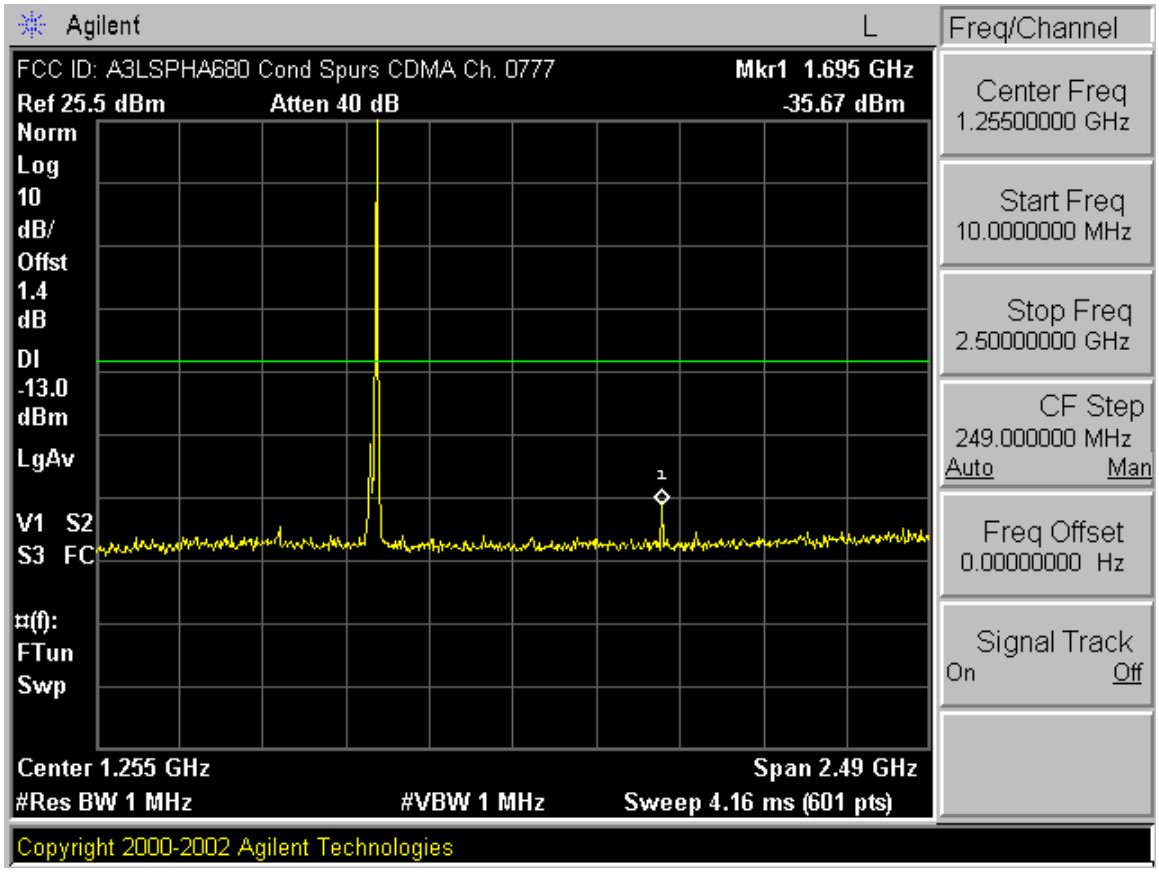


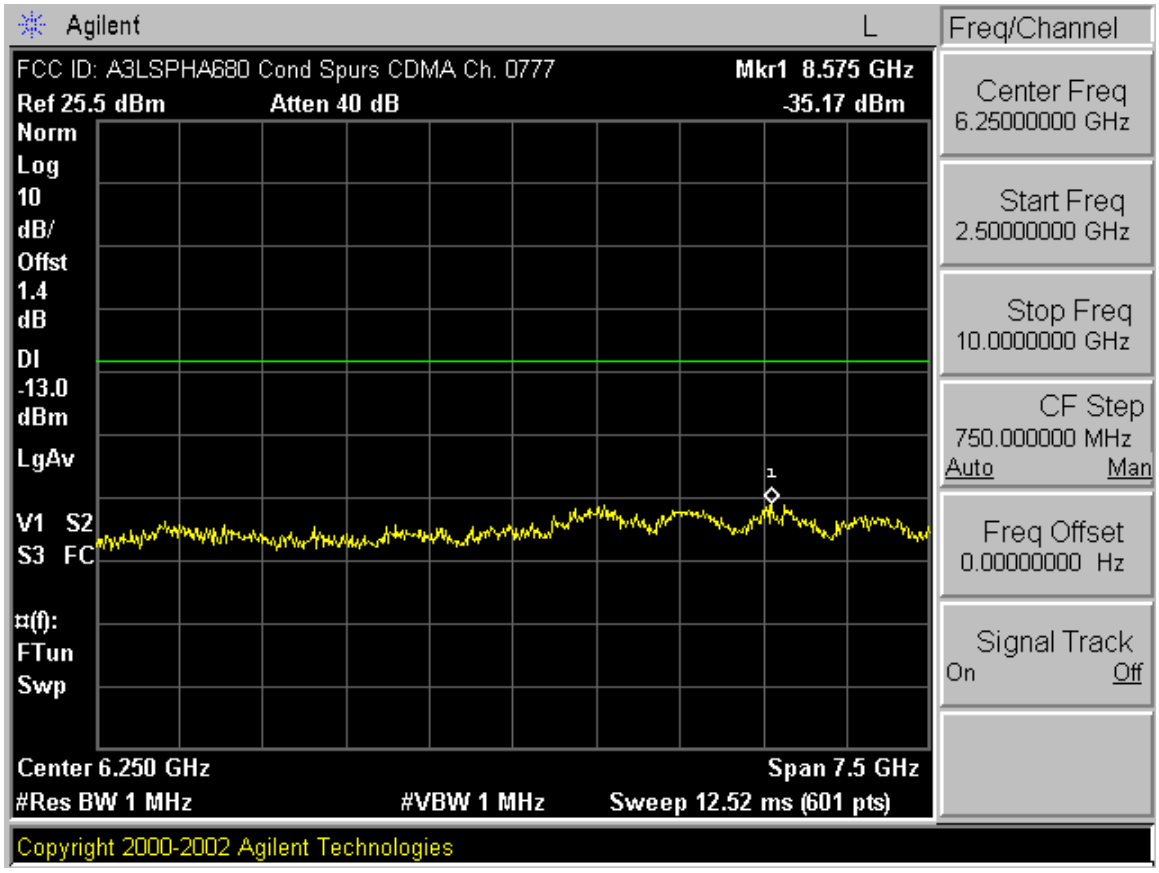

Agilent
L
Freq/Channel
FCC ID: A3LSPHA680 Cond Spurs CDMA Ch. 1013
Mkr1 1.649 GHz
Ref 25.5 dBm
Atten 40 dB
-39.46 dBm
Norm
Log
10
dB/
Offst
1.4
dB
Dl
-13.0
dBm
LgAv
V1 S2
S3 FC
¤(f):
FTun
Swp
Center Freq
1.25500000 GHz
Start Freq
10.0000000 MHz
Stop Freq
2.50000000 GHz
CF Step
249.000000 MHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
Center 1.255 GHz
Span 2.49 GHz
#Res BW 1 MHz
#VBW 1 MHz
Sweep 4.16 ms (601 pts)
Copyright 2000-2002 Agilent Technologies

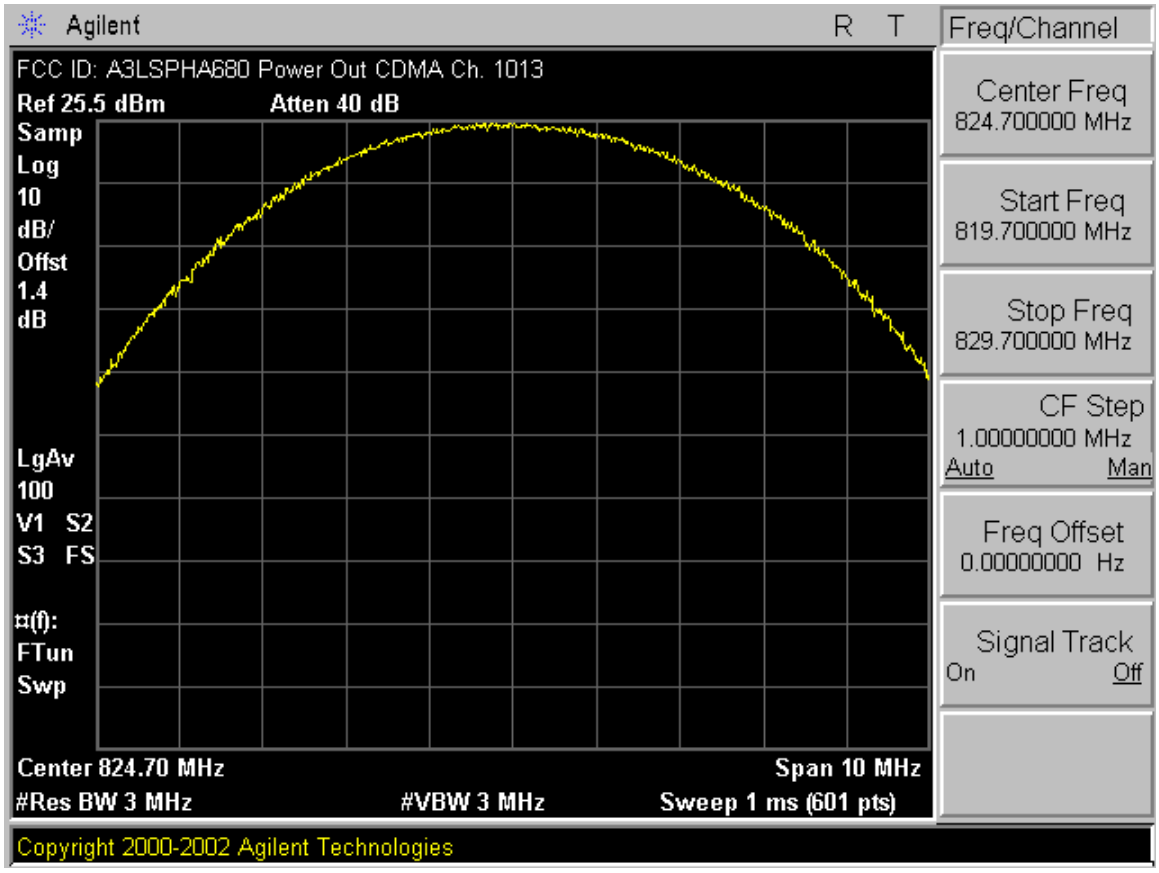

Agilent
L
Freq/Channel
FCC ID: A3LSPHA680 Cond Spurs CDMA Ch. 1013
Mkr1 8.050 GHz
Ref 25.5 dBm
Atten 40 dB
-33.93 dBm
Norm
Log
10
dB/
Offst
1.4
dB
Dl
-13.0
dBm
LgAv
V1 S2
S3 FC
¤(f):
FTun
Swp
Center Freq
6.25000000 GHz
Start Freq
2.50000000 GHz
Stop Freq
10.0000000 GHz
CF Step
750.000000 MHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
Center 6.250 GHz
Span 7.5 GHz
#Res BW 1 MHz
#VBW 1 MHz
Sweep 12.52 ms (601 pts)
Copyright 2000-2002 Agilent Technologies

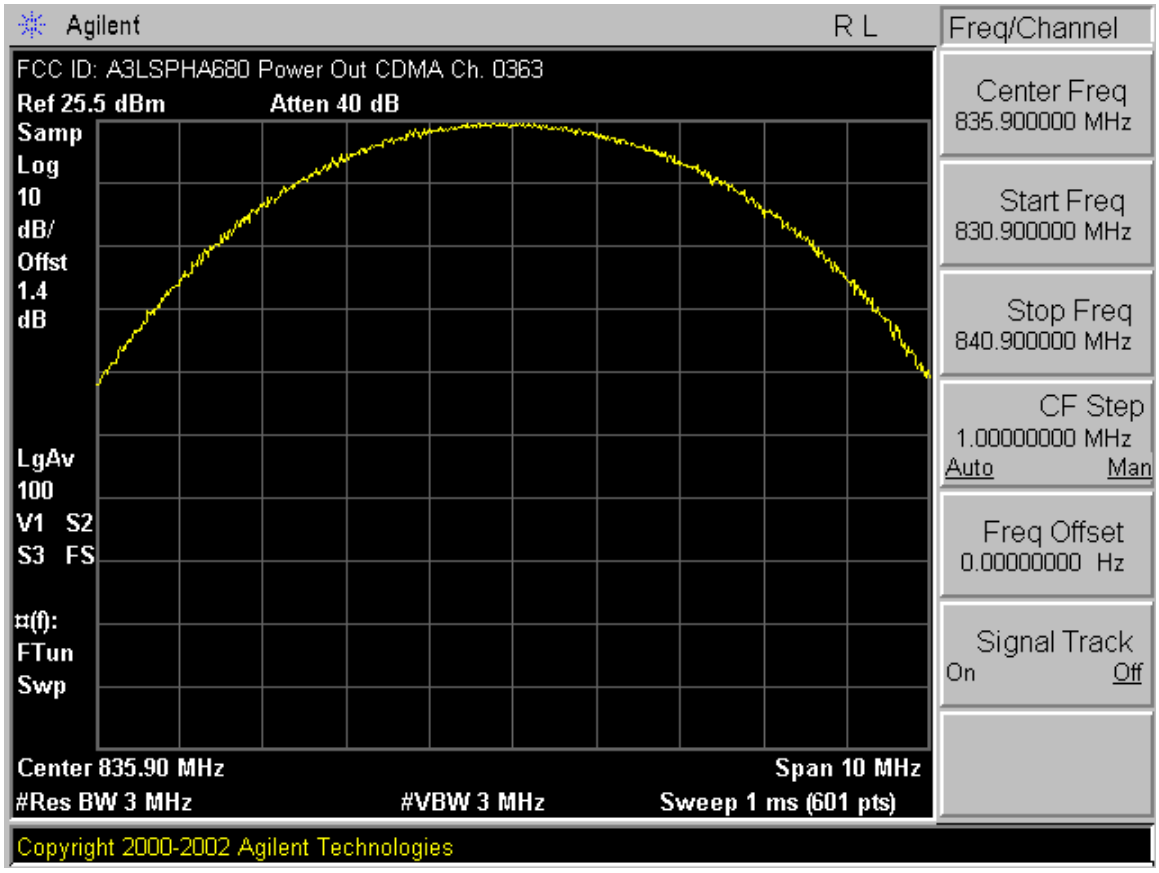

Agilent
L
Freq/Channel
FCC ID: A3LSPHA680 Cond Spurs CDMA Ch. 0363
Mkr1 2.326 GHz
Ref 25.5 dBm
Atten 40 dB
-38.59 dBm
Norm
Log
10
dB/
Offst
1.4
dB
Dl
-13.0
dBm
LgAv
V1 S2
S3 FC
¤(f):
FTun
Swp
Center 1.255 GHz
Span 2.49 GHz
#Res BW 1 MHz
#VBW 1 MHz
Sweep 4.16 ms (601 pts)
Center Freq
1.25500000 GHz
Start 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
Copyright 2000-2002 Agilent Technologies

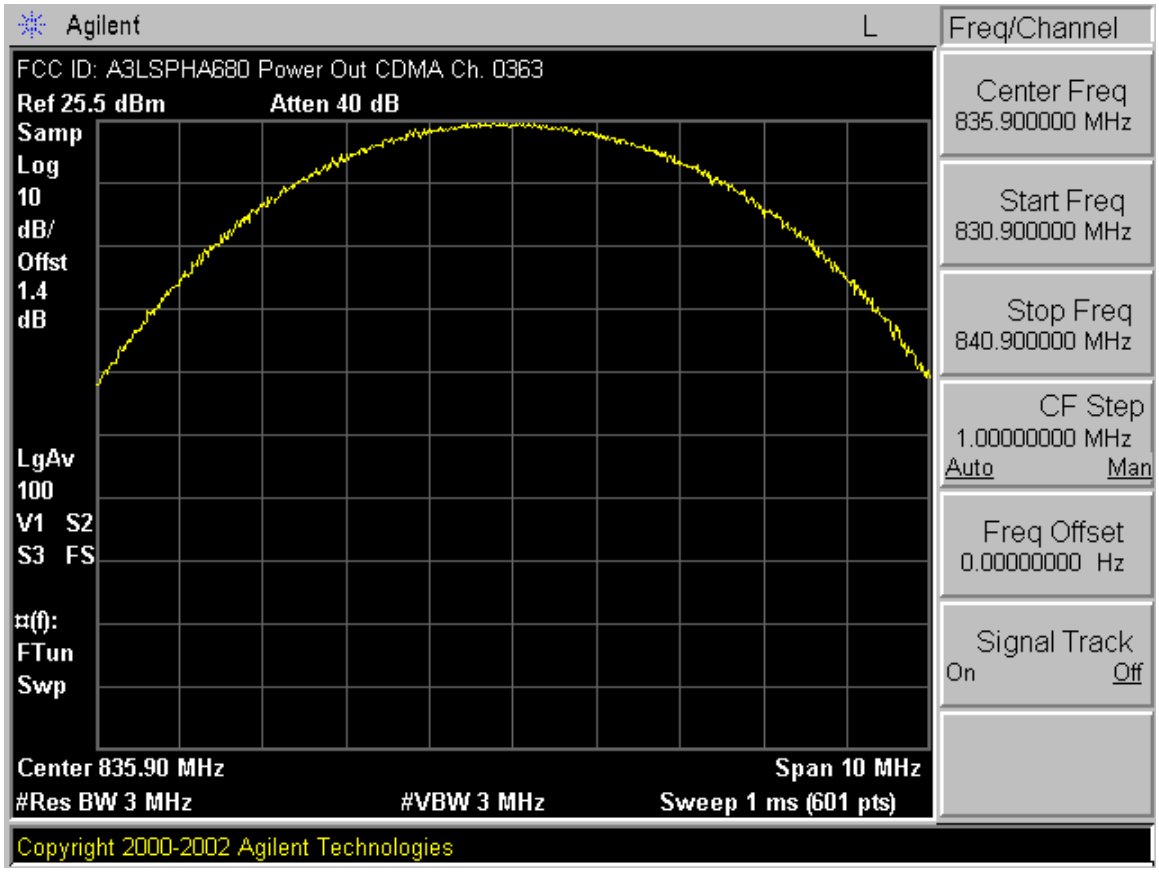

Agilent
L
Freq/Channel
FCC ID: A3LSPHA680 Cond Spurs CDMA Ch. 0363
Mkr1 8.050 GHz
Ref 25.5 dBm
Atten 40 dB
-34.61 dBm
Norm
Log
10
dB/
Offst
1.4
dB
Dl
-13.0
dBm
LgAv
V1 S2
S3 FC
¤(f):
FTun
Swp
Center 6.250 GHz
Span 7.5 GHz
#Res BW 1 MHz
#VBW 1 MHz
Sweep 12.52 ms (601 pts)
Center Freq
6.25000000 GHz
Start 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
Copyright 2000-2002 Agilent Technologies

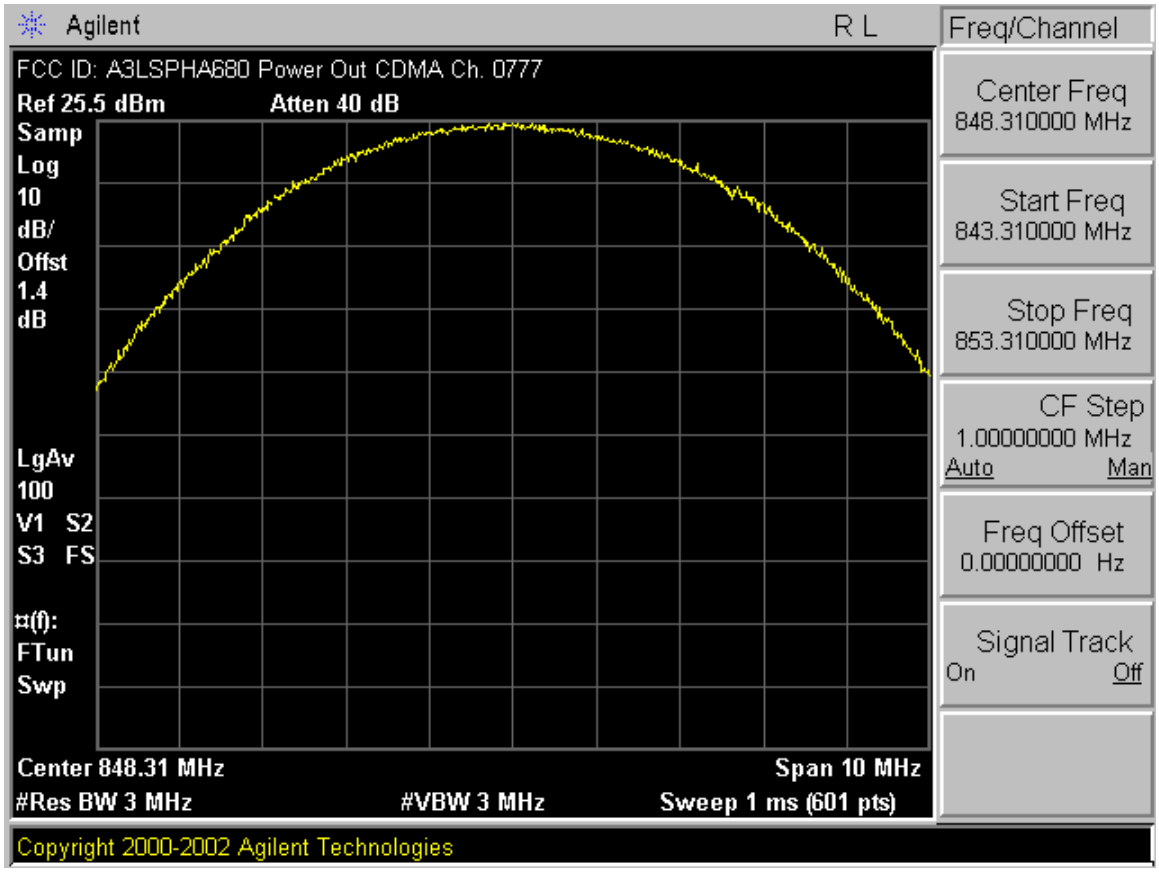

Agilent
L
Freq/Channel
FCC ID: A3LSPHA680 Cond Spurs CDMA Ch. 0777
Mkr1 1.695 GHz
Ref 25.5 dBm
Atten 40 dB
-35.67 dBm
Norm
Log
10
dB/
Offst
1.4
dB
Dl
-13.0
dBm
LgAv
V1 S2
S3 FC
¤(f):
FTun
Swp
Center Freq
1.25500000 GHz
Start Freq
10.0000000 MHz
Stop Freq
2.50000000 GHz
CF Step
249.000000 MHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
Center 1.255 GHz
Span 2.49 GHz
#Res BW 1 MHz
#VBW 1 MHz
Sweep 4.16 ms (601 pts)
Copyright 2000-2002 Agilent Technologies

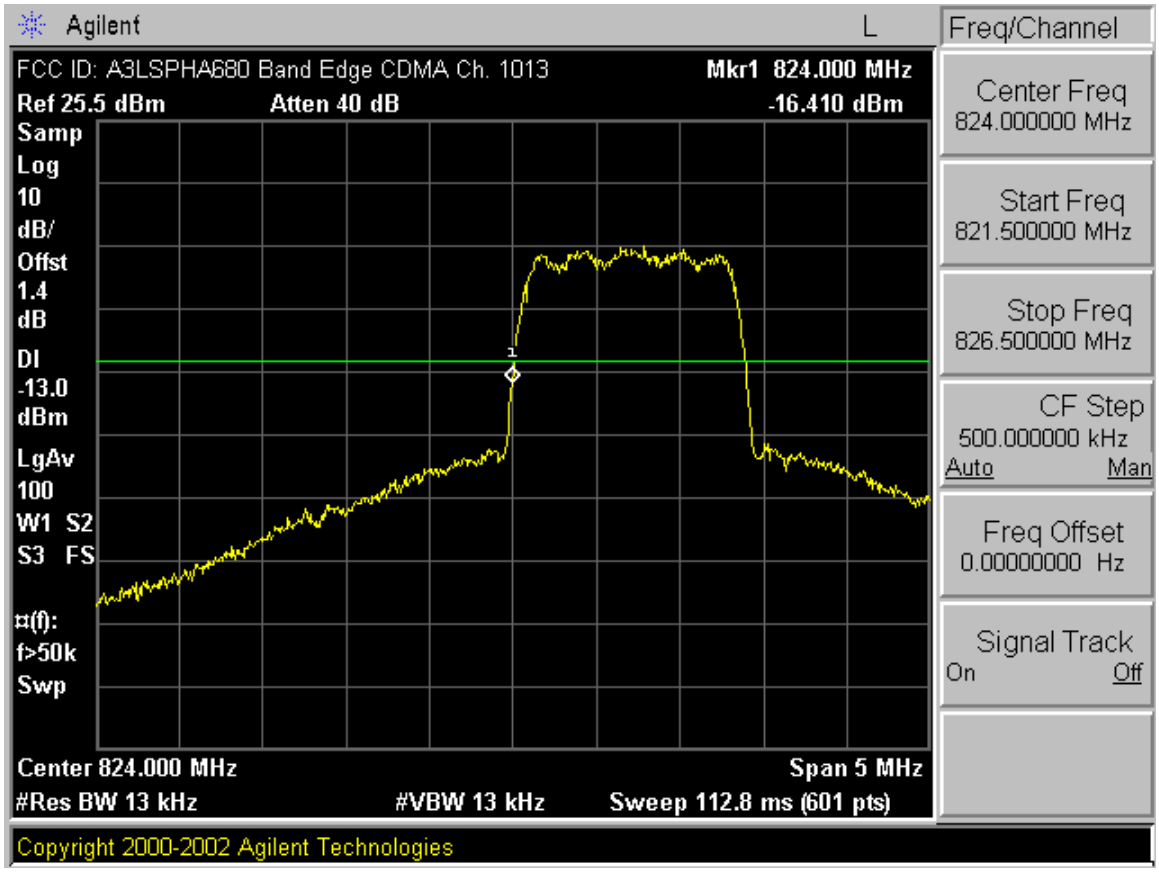

Agilent
L
Freq/Channel
FCC ID: A3LSPHA680 Cond Spurs CDMA Ch. 0777
Mkr1 8.575 GHz
Ref 25.5 dBm
Atten 40 dB
-35.17 dBm
Norm
Log
10
dB/
Offst
1.4
dB
Dl
-13.0
dBm
LgAv
V1 S2
S3 FC
¤(f):
FTun
Swp
Center Freq
6.25000000 GHz
Start Freq
2.50000000 GHz
Stop Freq
10.0000000 GHz
CF Step
750.000000 MHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
Center 6.250 GHz
Span 7.5 GHz
#Res BW 1 MHz
#VBW 1 MHz
Sweep 12.52 ms (601 pts)
Copyright 2000-2002 Agilent Technologies

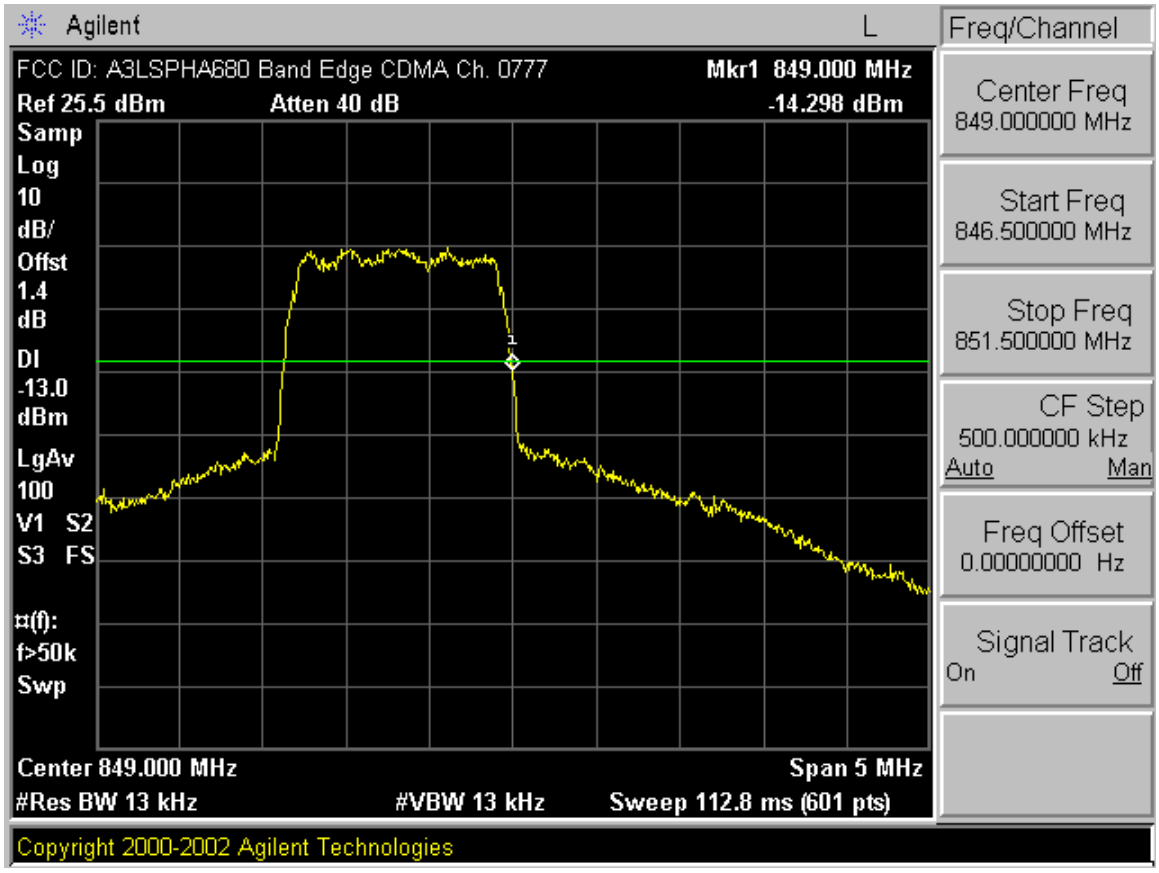

Agilent
R T
Freq/Channel
FCC ID: A3LSPHA680 Power Out CDMA Ch. 1013
Ref 25.5 dBm
Atten 40 dB
Samp
Log
10
dB/
Offst
1.4
dB
LgAv
100
V1 S2
S3 FS
¤(f):
FTun
Swp
Center 824.70 MHz
Span 10 MHz
#Res BW 3 MHz
#VBW 3 MHz
Sweep 1 ms (601 pts)
Center Freq
824.700000 MHz
Start Freq
819.700000 MHz
Stop Freq
829.700000 MHz
CF Step
1.00000000 MHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
Copyright 2000-2002 Agilent Technologies

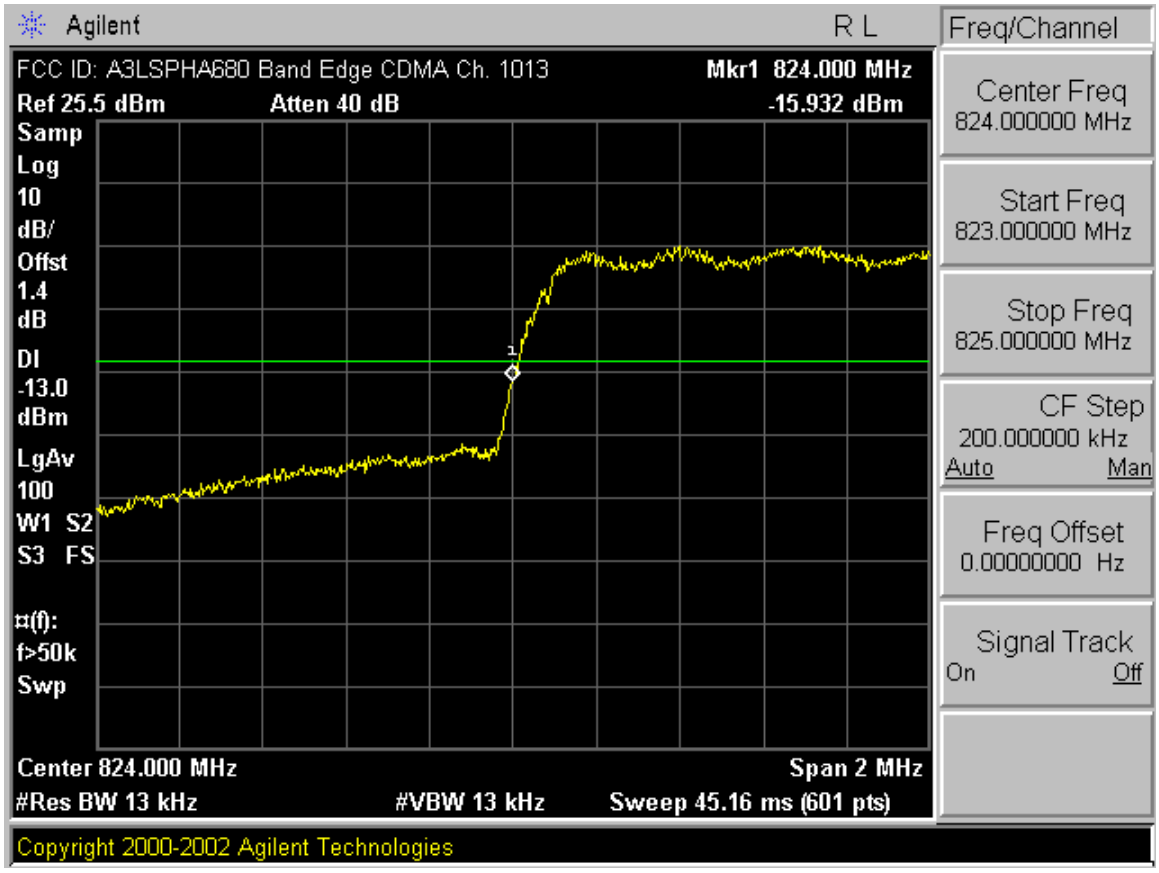

Agilent
R L
Freq/Channel
FCC ID: A3LSPHA680 Power Out CDMA Ch. 0363
Ref 25.5 dBm
Atten 40 dB
Samp
Log
10
dB/
Offst
1.4
dB
LgAv
100
V1 S2
S3 FS
¤(f):
FTun
Swp
Center 835.90 MHz
Span 10 MHz
#Res BW 3 MHz
#VBW 3 MHz
Sweep 1 ms (601 pts)
Center Freq
835.900000 MHz
Start Freq
830.900000 MHz
Stop Freq
840.900000 MHz
CF Step
1.00000000 MHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
Copyright 2000-2002 Agilent Technologies

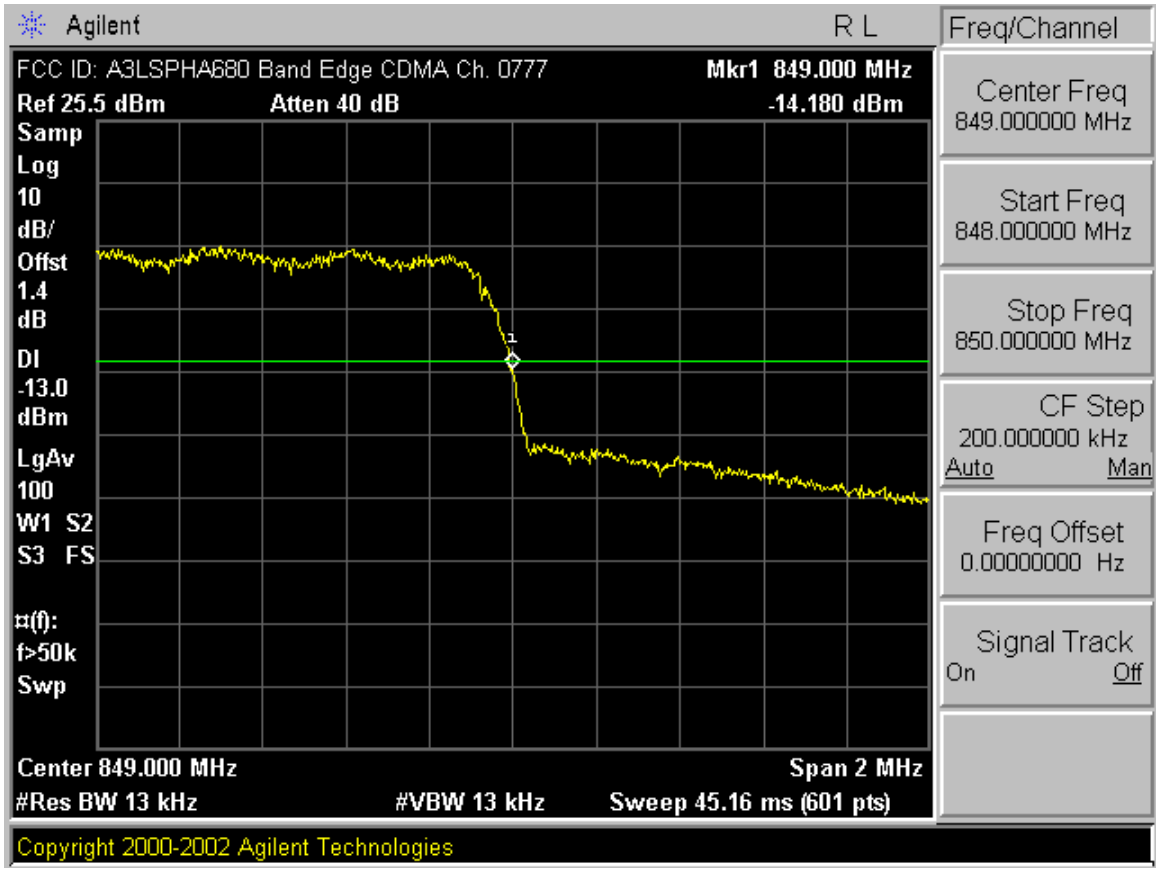

Agilent
L
Freq/Channel
FCC ID: A3LSPHA680 Power Out CDMA Ch. 0363
Ref 25.5 dBm
Atten 40 dB
Samp
Log
10
dB/
Offst
1.4
dB
LgAv
100
V1 S2
S3 FS
¤(f):
FTun
Swp
Center 835.90 MHz
Span 10 MHz
#Res BW 3 MHz
#VBW 3 MHz
Sweep 1 ms (601 pts)
Center Freq
835.900000 MHz
Start Freq
830.900000 MHz
Stop Freq
840.900000 MHz
CF Step
1.00000000 MHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
Copyright 2000-2002 Agilent Technologies

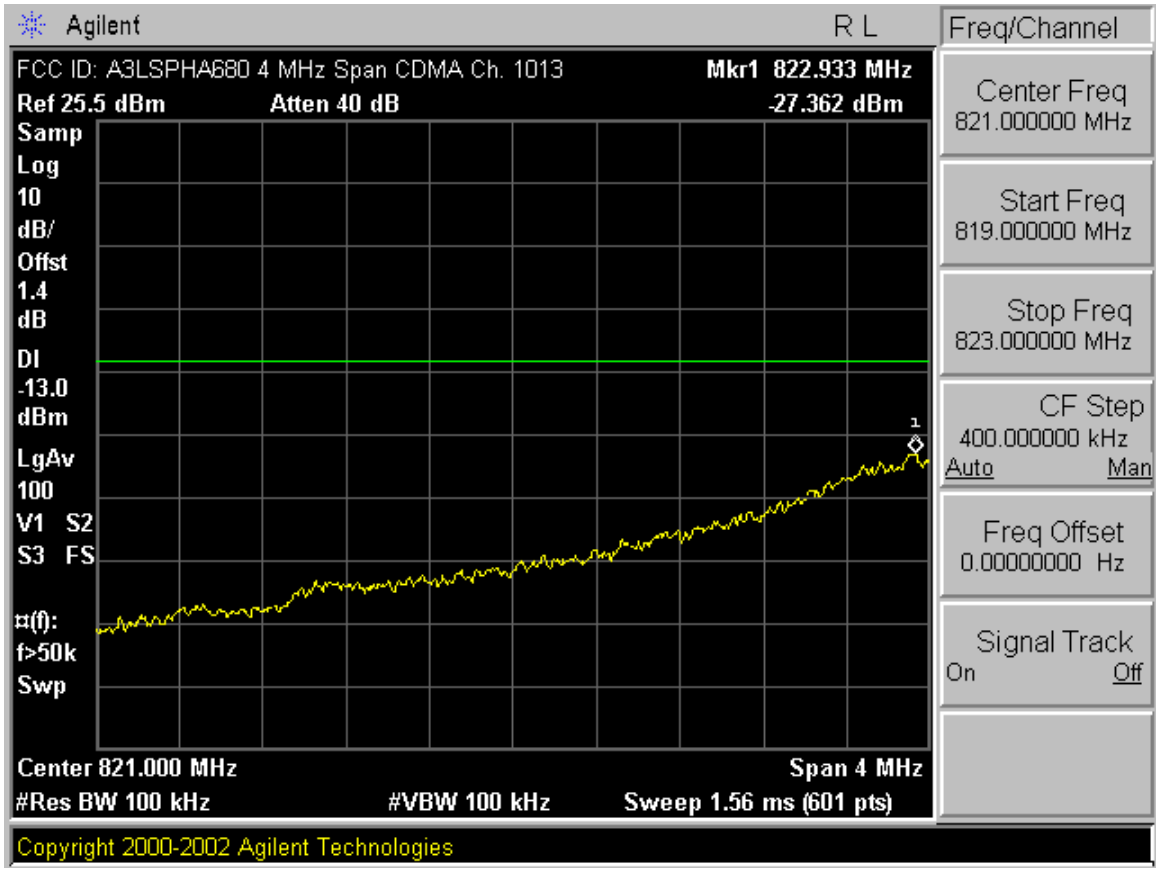

Agilent
R L
Freq/Channel
FCC ID: A3LSPHA680 Power Out CDMA Ch. 0777
Ref 25.5 dBm
Atten 40 dB
Samp
Log
10
dB/
Offst
1.4
dB
LgAv
100
V1 S2
S3 FS
¤(f):
FTun
Swp
Center 848.31 MHz
Span 10 MHz
#Res BW 3 MHz
#VBW 3 MHz
Sweep 1 ms (601 pts)
Center Freq
848.310000 MHz
Start Freq
843.310000 MHz
Stop Freq
853.310000 MHz
CF Step
1.00000000 MHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
Copyright 2000-2002 Agilent Technologies


Agilent
L
Freq/Channel
FCC ID: A3LSPHA680 Band Edge CDMA Ch. 1013
Mkr1 824.000 MHz
Ref 25.5 dBm
Atten 40 dB
-16.410 dBm
Samp
Log
10
dB/
Offst
1.4
dB
Dl
-13.0
dBm
LgAv
100
W1 S2
S3 FS
¤(f):
f>50k
Swp
Center 824.000 MHz
Span 5 MHz
#Res BW 13 kHz
#VBW 13 kHz
Sweep 112.8 ms (601 pts)
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
Copyright 2000-2002 Agilent Technologies


Agilent
L
Freq/Channel
FCC ID: A3LSPHA680 Band Edge CDMA Ch. 0777
Mkr1 849.000 MHz
Ref 25.5 dBm
Atten 40 dB
-14.298 dBm
Samp
Log
10
dB/
Offst
1.4
dB
Dl
-13.0
dBm
LgAv
100
V1 S2
S3 FS
¤(f):
f>50k
Swp
Center 849.000 MHz
Span 5 MHz
#Res BW 13 kHz
#VBW 13 kHz
Sweep 112.8 ms (601 pts)
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
Copyright 2000-2002 Agilent Technologies


Agilent
R L
Freq/Channel
FCC ID: A3LSPHA680 Band Edge CDMA Ch. 1013
Mkr1 824.000 MHz
Ref 25.5 dBm
Atten 40 dB
-15.932 dBm
Samp
Log
10
dB/
Offst
1.4
dB
Dl
-13.0
dBm
LgAv
100
W1 S2
S3 FS
¤(f):
f>50k
Swp
Center Freq
824.000000 MHz
Start Freq
823.000000 MHz
Stop Freq
825.000000 MHz
CF Step
200.000000 kHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
Center 824.000 MHz
Span 2 MHz
#Res BW 13 kHz
#VBW 13 kHz
Sweep 45.16 ms (601 pts)
Copyright 2000-2002 Agilent Technologies


Agilent
R L
Freq/Channel
FCC ID: A3LSPHA680 Band Edge CDMA Ch. 0777
Mkr1 849.000 MHz
Ref 25.5 dBm
Atten 40 dB
-14.180 dBm
Samp
Log
10
dB/
Offst
1.4
dB
Dl
-13.0
dBm
LgAv
100
W1 S2
S3 FS
¤(f):
f>50k
Swp
Center Freq
849.000000 MHz
Start Freq
848.000000 MHz
Stop Freq
850.000000 MHz
CF Step
200.000000 kHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
Center 849.000 MHz
Span 2 MHz
#Res BW 13 kHz
#VBW 13 kHz
Sweep 45.16 ms (601 pts)
Copyright 2000-2002 Agilent Technologies


Agilent
R L
Freq/Channel
FCC ID: A3LSPHA680 4 MHz Span CDMA Ch. 1013
Mkr1 822.933 MHz
Ref 25.5 dBm
Atten 40 dB
-27.362 dBm
Samp
Log
10
dB/
Offst
1.4
dB
Dl
-13.0
dBm
LgAv
100
V1 S2
S3 FS
¤(f):
f>50k
Swp
Center Freq
821.000000 MHz
Start Freq
819.000000 MHz
Stop Freq
823.000000 MHz
CF Step
400.000000 kHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
Center 821.000 MHz
Span 4 MHz
#Res BW 100 kHz
#VBW 100 kHz
Sweep 1.56 ms (601 pts)
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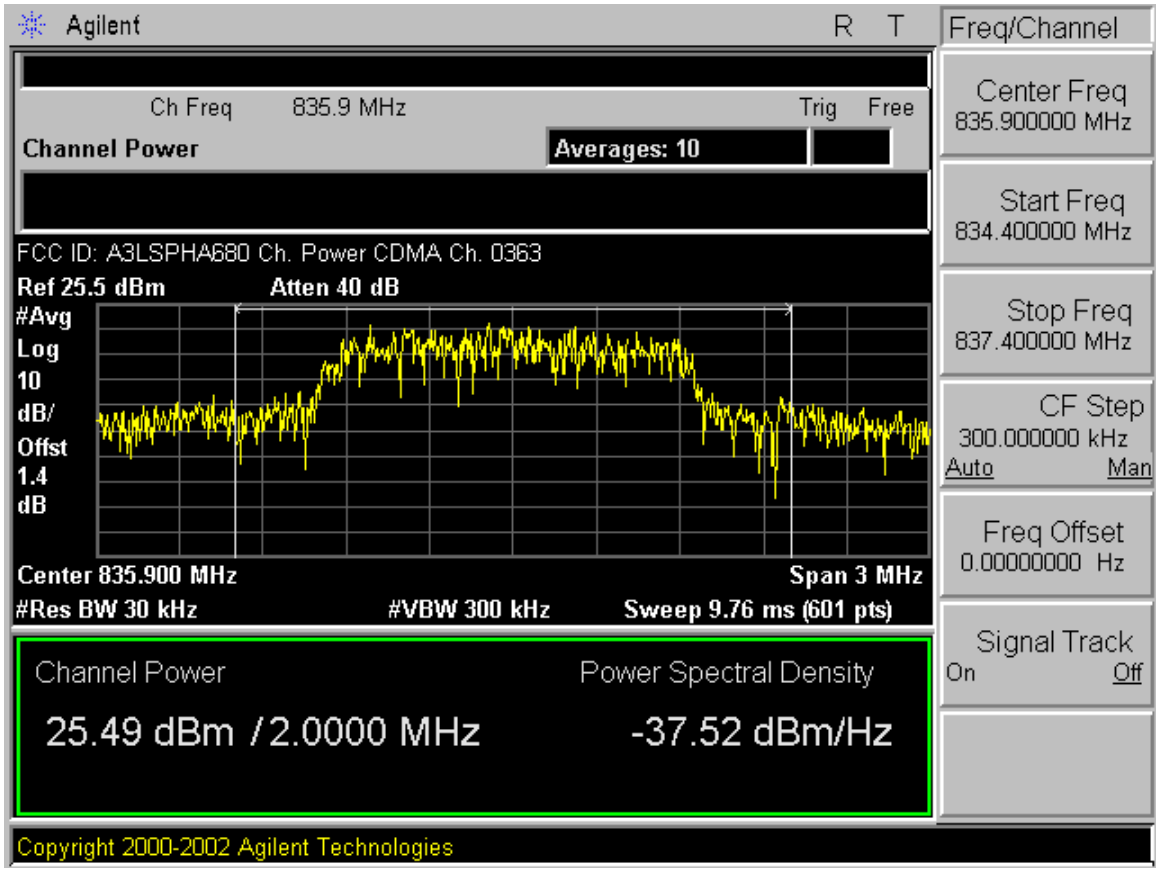
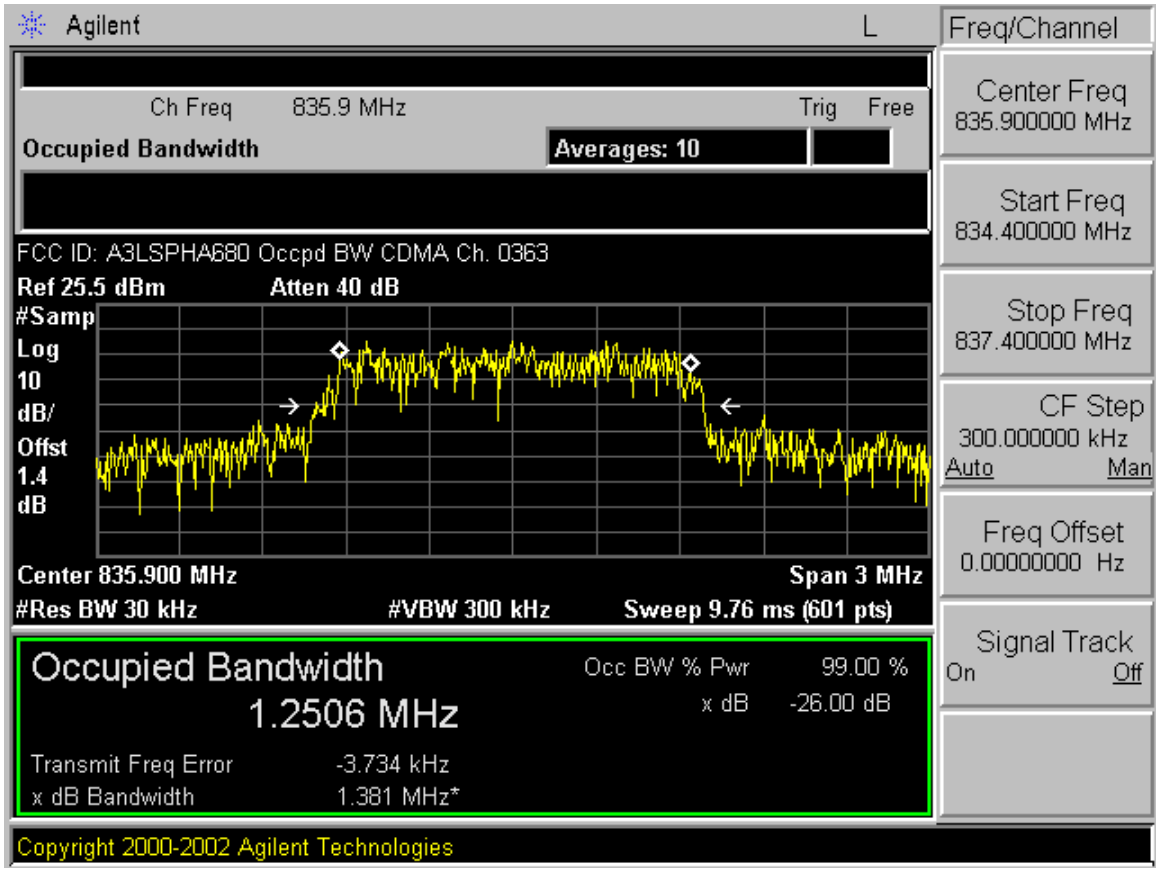
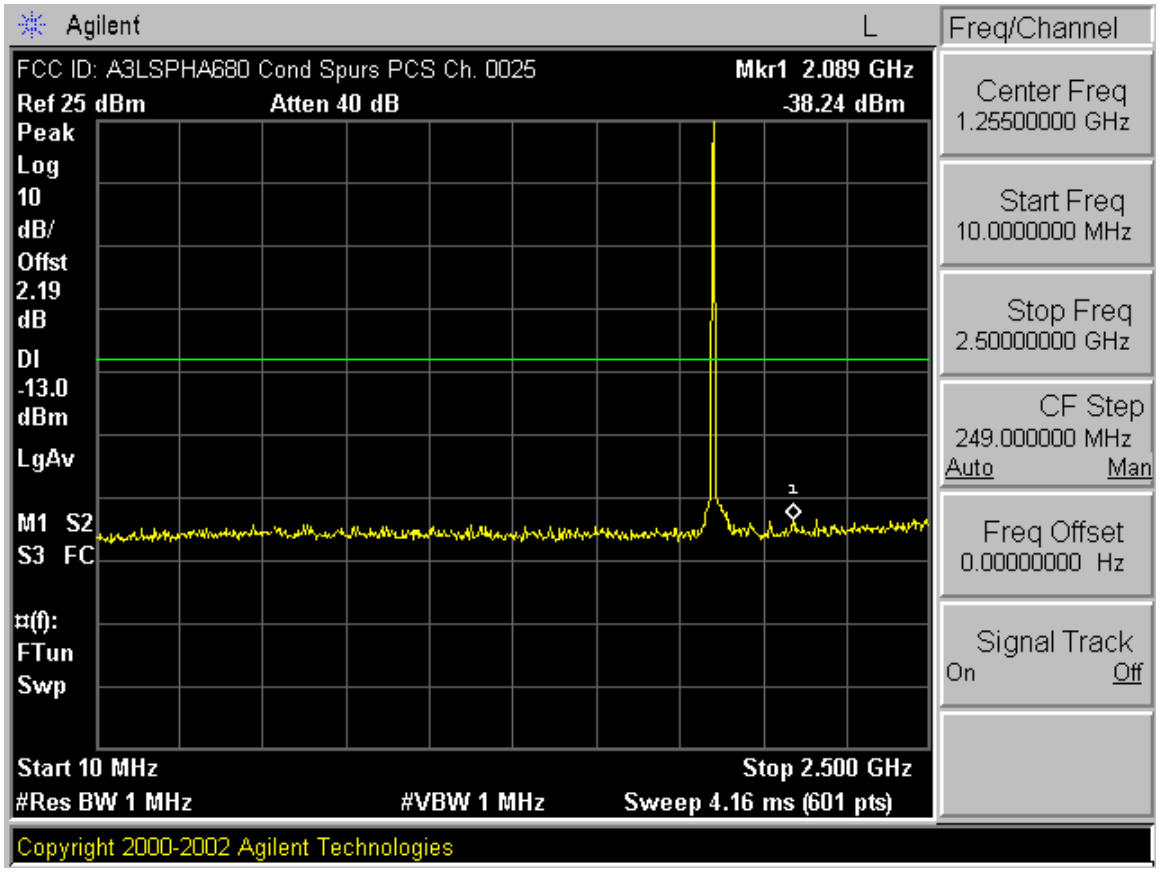
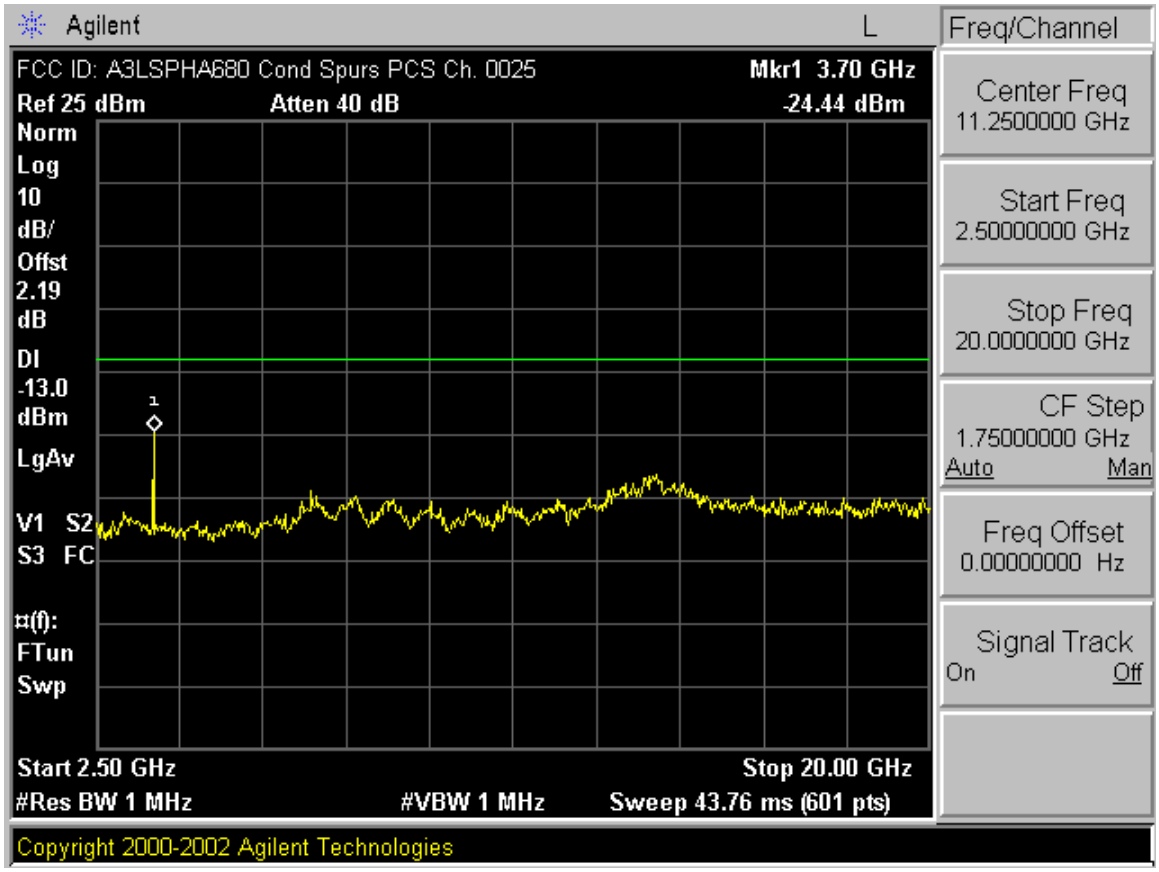
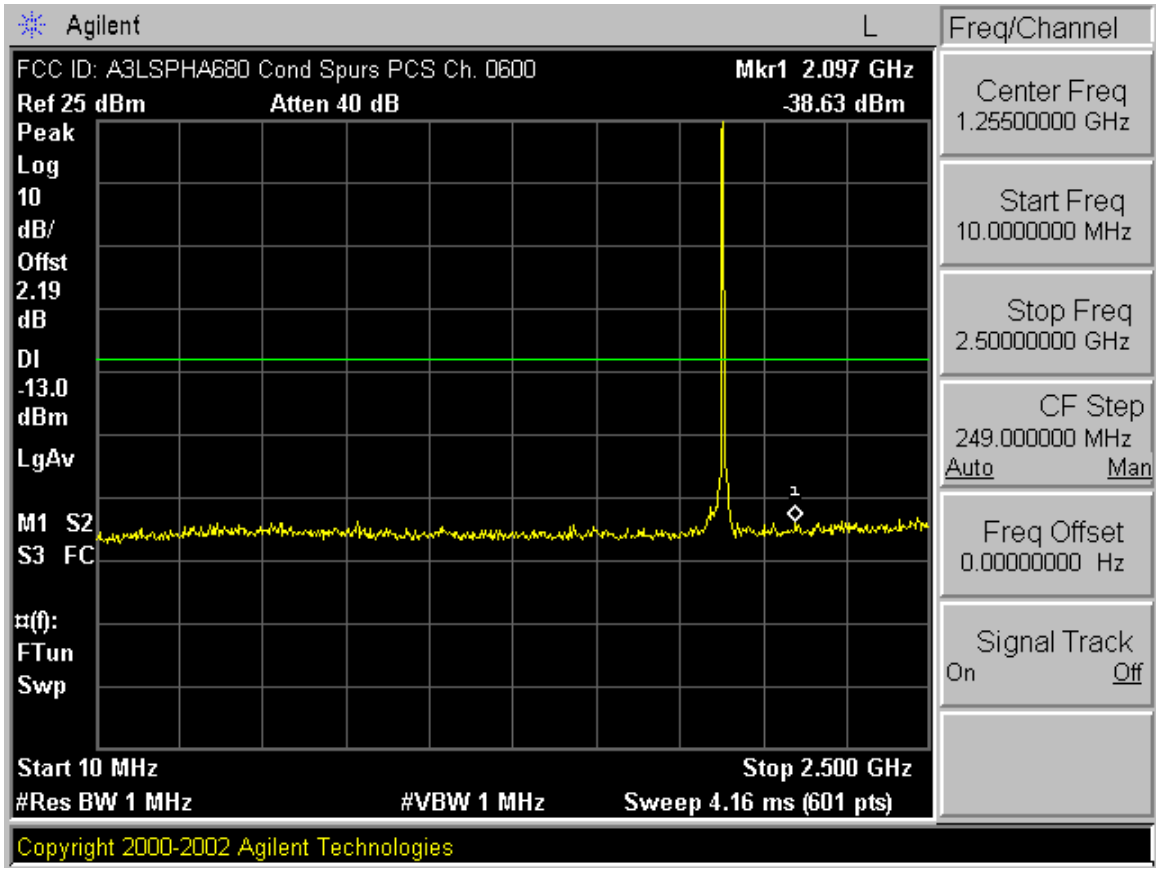
Agilent
R L
Freq/Channel
FCC ID: A3LSPHA680 4 MHz Span CDMA Ch. 0777
Mkr1 850.067 MHz
Ref 25.5 dBm
Atten 40 dB
-25.110 dBm
Samp
Log
10
dB/
Offst
1.4
dB
Dl
-13.0
dBm
LgAv
100
V1 S2
S3 FS
¤(f):
f>50k
Swp
Center Freq
852.000000 MHz
Start Freq
850.000000 MHz
Stop Freq
854.000000 MHz
CF Step
400.000000 kHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
Center 852.000 MHz
Span 4 MHz
#Res BW 100 kHz
#VBW 100 kHz
Sweep 1.56 ms (601 pts)
Copyright 2000-2002 Agilent Technologies

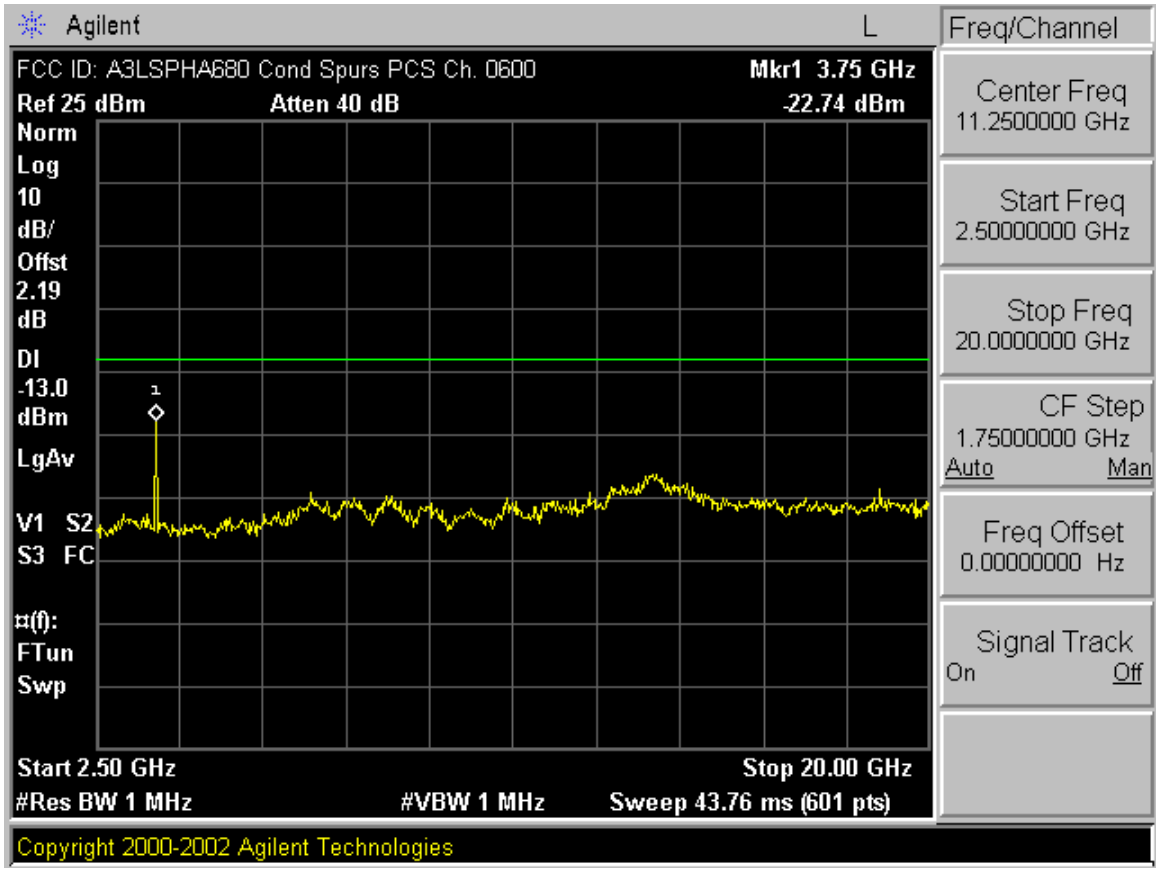

Agilent
R T
Freq/Channel
Ch Freq 835.9 MHz
Trig Free
Channel Power
Averages: 10
FCC ID: A3LSPHA680 Ch. Power CDMA Ch. 0363
Ref 25.5 dBm
Atten 40 dB
#Avg
Log
10
dB/
Offst
1.4
dB
Center 835.900 MHz
Span 3 MHz
#Res BW 30 kHz
#VBW 300 kHz
Sweep 9.76 ms (601 pts)
Channel Power
25.49 dBm /2.0000 MHz
Power Spectral Density
-37.52 dBm/Hz
Center Freq
835.900000 MHz
Start Freq
834.400000 MHz
Stop Freq
837.400000 MHz
CF Step
300.000000 kHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
Copyright 2000-2002 Agilent Technologies

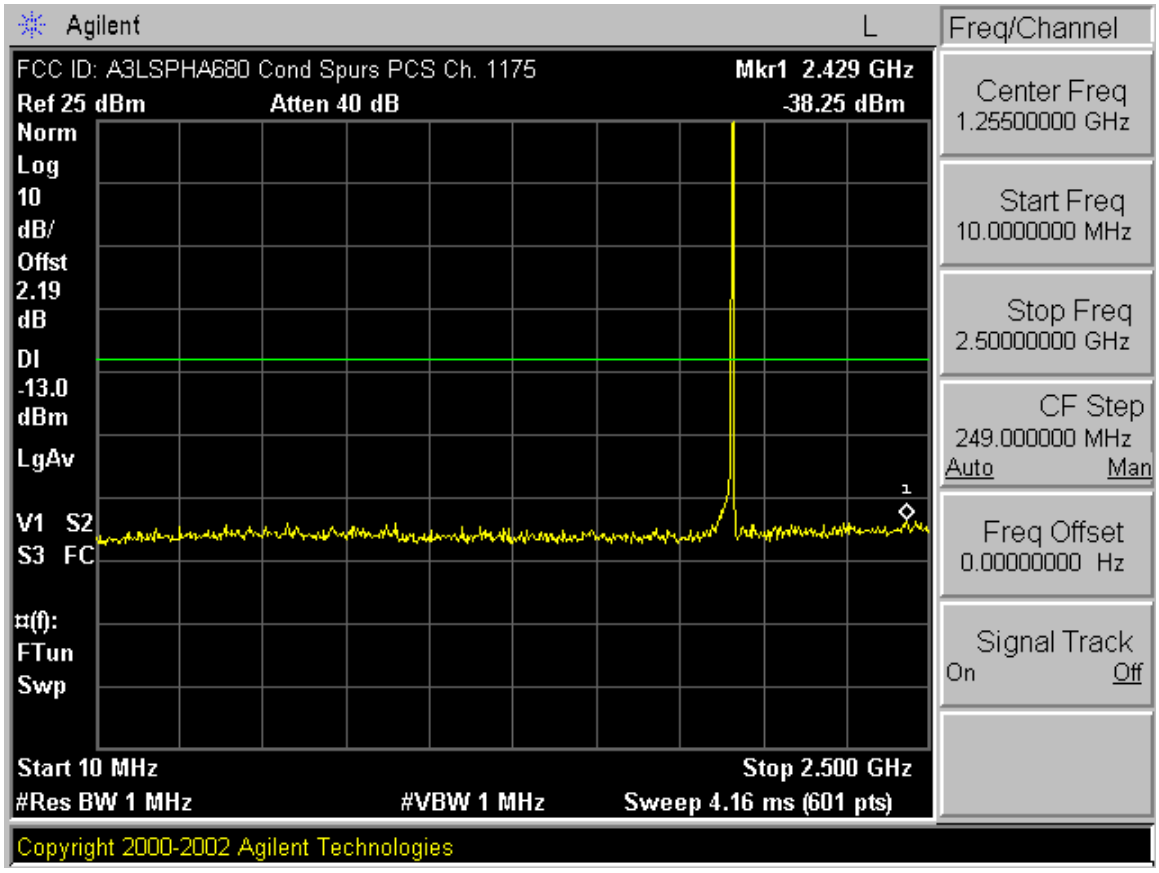

Agilent
L
Freq/Channel
Ch Freq 835.9 MHz
Trig Free
Occupied Bandwidth
Averages: 10
FCC ID: A3LSPHA680 Occpd BW CDMA Ch. 0363
Ref 25.5 dBm
Atten 40 dB
#Samp
Log
10
dB/
Offst
1.4
dB
Center 835.900 MHz
Span 3 MHz
#Res BW 30 kHz
#VBW 300 kHz
Sweep 9.76 ms (601 pts)
Occupied Bandwidth
1.2506 MHz
Occ BW % Pwr 99.00 %
x dB -26.00 dB
Transmit Freq Error -3.734 kHz
x dB Bandwidth 1.381 MHz*
Center Freq
835.900000 MHz
Start Freq
834.400000 MHz
Stop Freq
837.400000 MHz
CF Step
300.000000 kHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
Copyright 2000-2002 Agilent Technologies

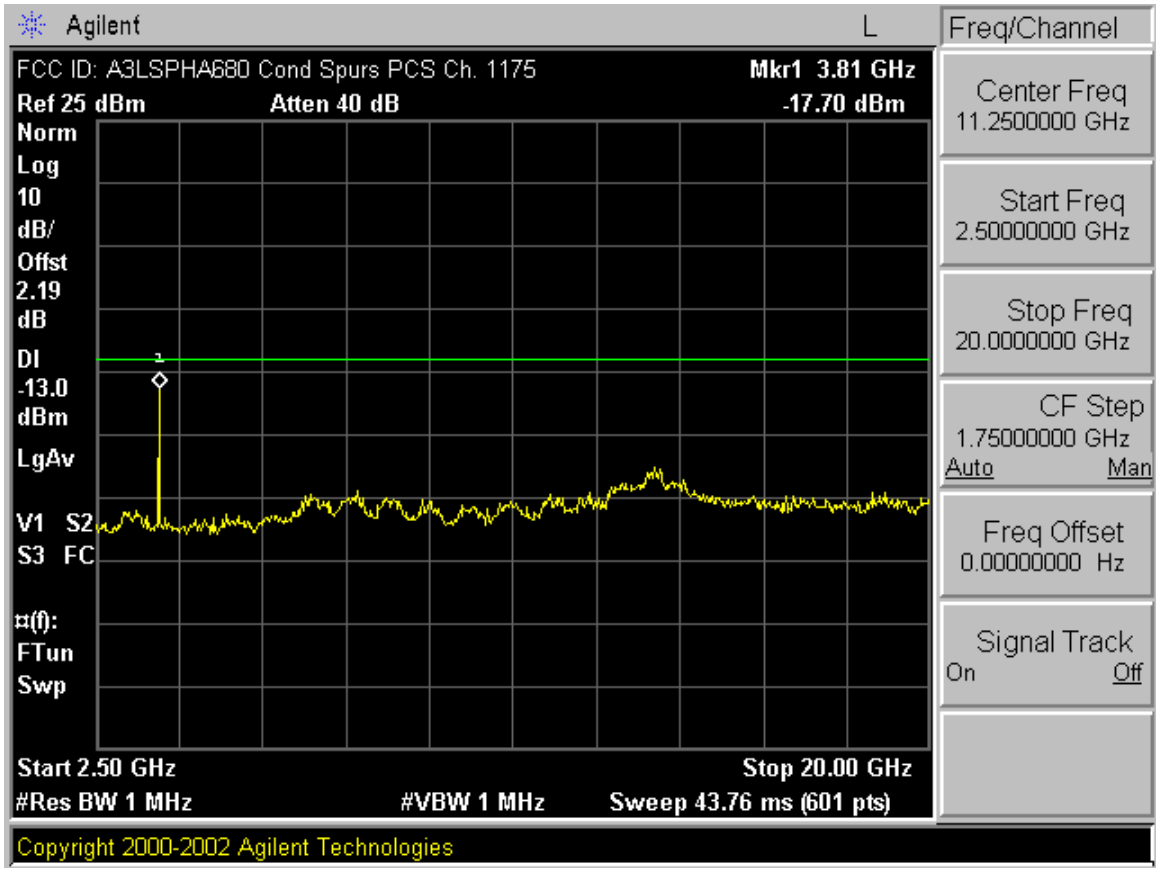

Agilent
L
Freq/Channel
FCC ID: A3LSPHA680 Cond Spurs PCS Ch. 0025
Mkr1 2.089 GHz
Ref 25 dBm
Atten 40 dB
-38.24 dBm
Peak
Log
10
dB/
Offst
2.19
dB
Dl
-13.0
dBm
LgAv
M1 S2
S3 FC
¤(f):
FTun
Swp
Start 10 MHz
Stop 2.500 GHz
#Res BW 1 MHz
#VBW 1 MHz
Sweep 4.16 ms (601 pts)
Center Freq
1.25500000 GHz
Start Freq
10.0000000 MHz
Stop Freq
2.50000000 GHz
CF Step
249.000000 MHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
Copyright 2000-2002 Agilent Technologies

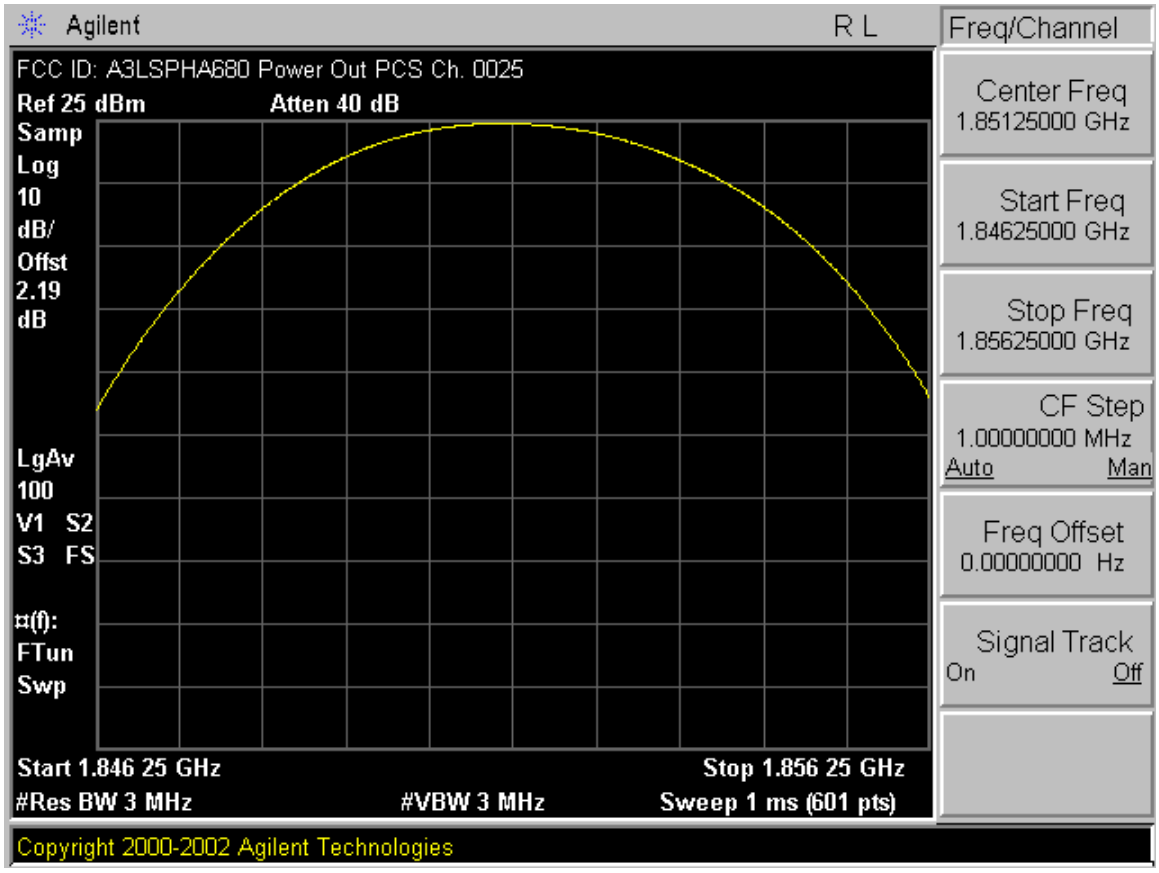

Agilent
L
Freq/Channel
FCC ID: A3LSPHA680 Cond Spurs PCS Ch. 0025
Mkr1 3.70 GHz
Ref 25 dBm
Atten 40 dB
-24.44 dBm
Norm
Log
10
dB/
Offst
2.19
dB
Dl
-13.0
dBm
LgAv
V1 S2
S3 FC
¤(f):
FTun
Swp
Start 2.50 GHz
Stop 20.00 GHz
#Res BW 1 MHz
#VBW 1 MHz
Sweep 43.76 ms (601 pts)
Center Freq
11.2500000 GHz
Start 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
Copyright 2000-2002 Agilent Technologies

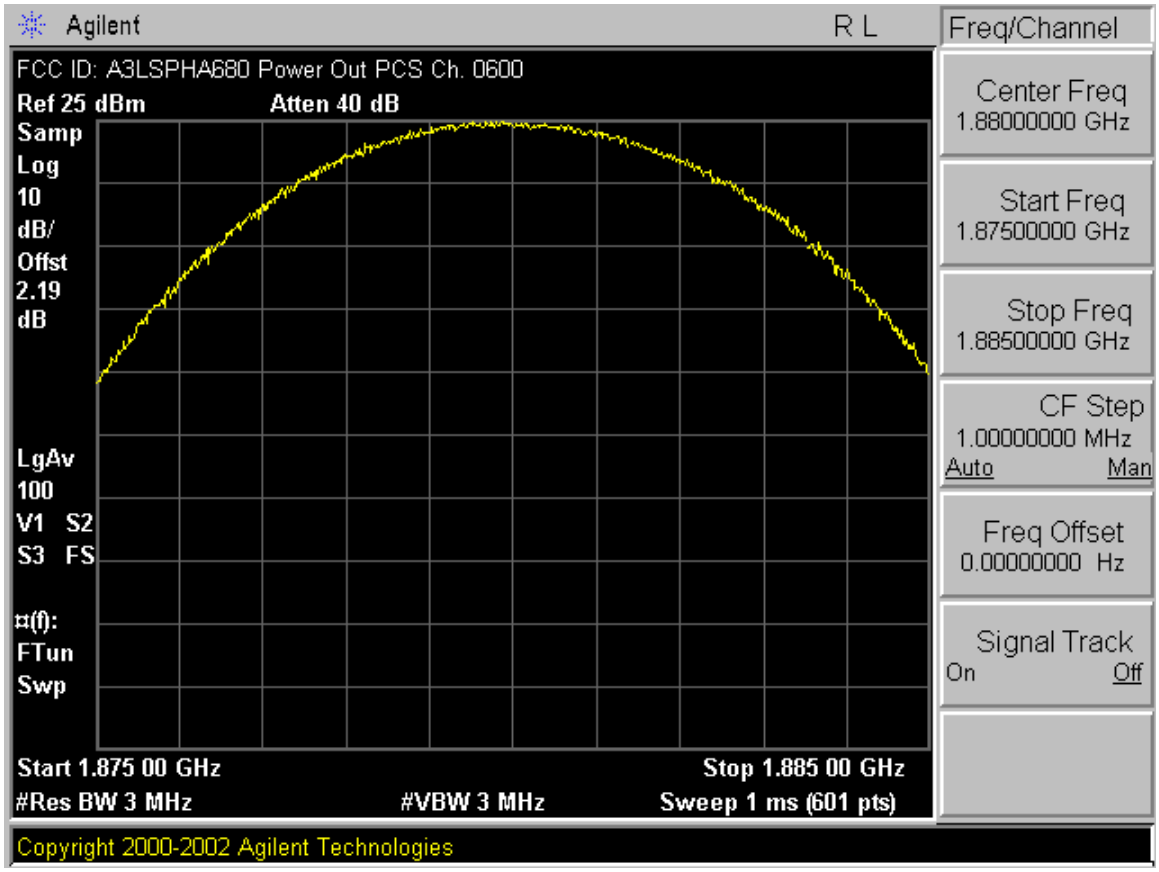

Agilent
L
Freq/Channel
FCC ID: A3LSPHA680 Cond Spurs PCS Ch. 0600
Mkr1 2.097 GHz
Ref 25 dBm
Atten 40 dB
-38.63 dBm
Peak
Log
10
dB/
Offst
2.19
dB
Dl
-13.0
dBm
LgAv
M1 S2
S3 FC
¤(f):
FTun
Swp
Center Freq
1.25500000 GHz
Start Freq
10.0000000 MHz
Stop Freq
2.50000000 GHz
CF Step
249.000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
Start 10 MHz
Stop 2.500 GHz
#Res BW 1 MHz
#VBW 1 MHz
Sweep 4.16 ms (601 pts)
Copyright 2000-2002 Agilent Technologies

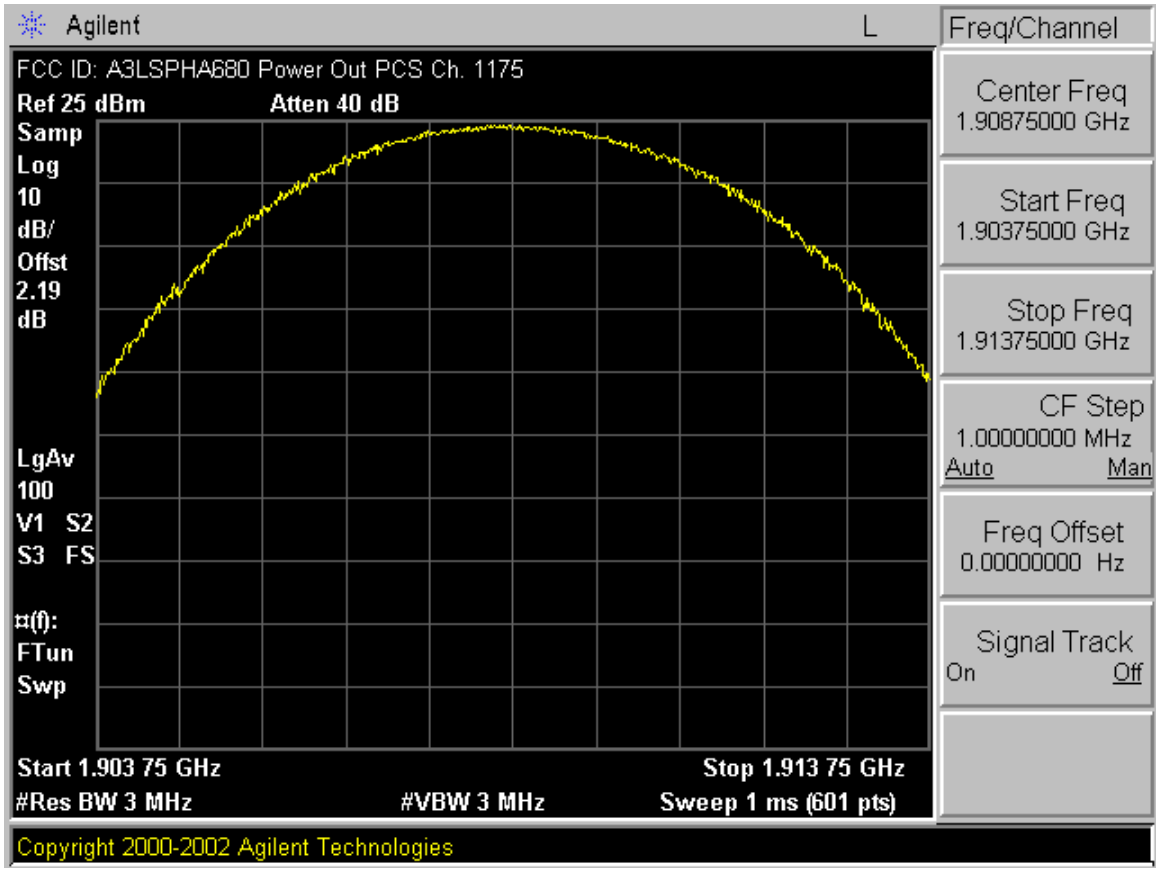

Agilent
L
Freq/Channel
FCC ID: A3LSPHA680 Cond Spurs PCS Ch. 0600
Mkr1 3.75 GHz
Ref 25 dBm
Atten 40 dB
-22.74 dBm
Norm
Log
10
dB/
Offst
2.19
dB
Dl
-13.0
dBm
LgAv
V1 S2
S3 FC
¤(f):
FTun
Swp
Center Freq
11.2500000 GHz
Start Freq
2.50000000 GHz
Stop Freq
20.0000000 GHz
CF Step
1.75000000 GHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
Start 2.50 GHz
Stop 20.00 GHz
#Res BW 1 MHz
#VBW 1 MHz
Sweep 43.76 ms (601 pts)
Copyright 2000-2002 Agilent Technologies

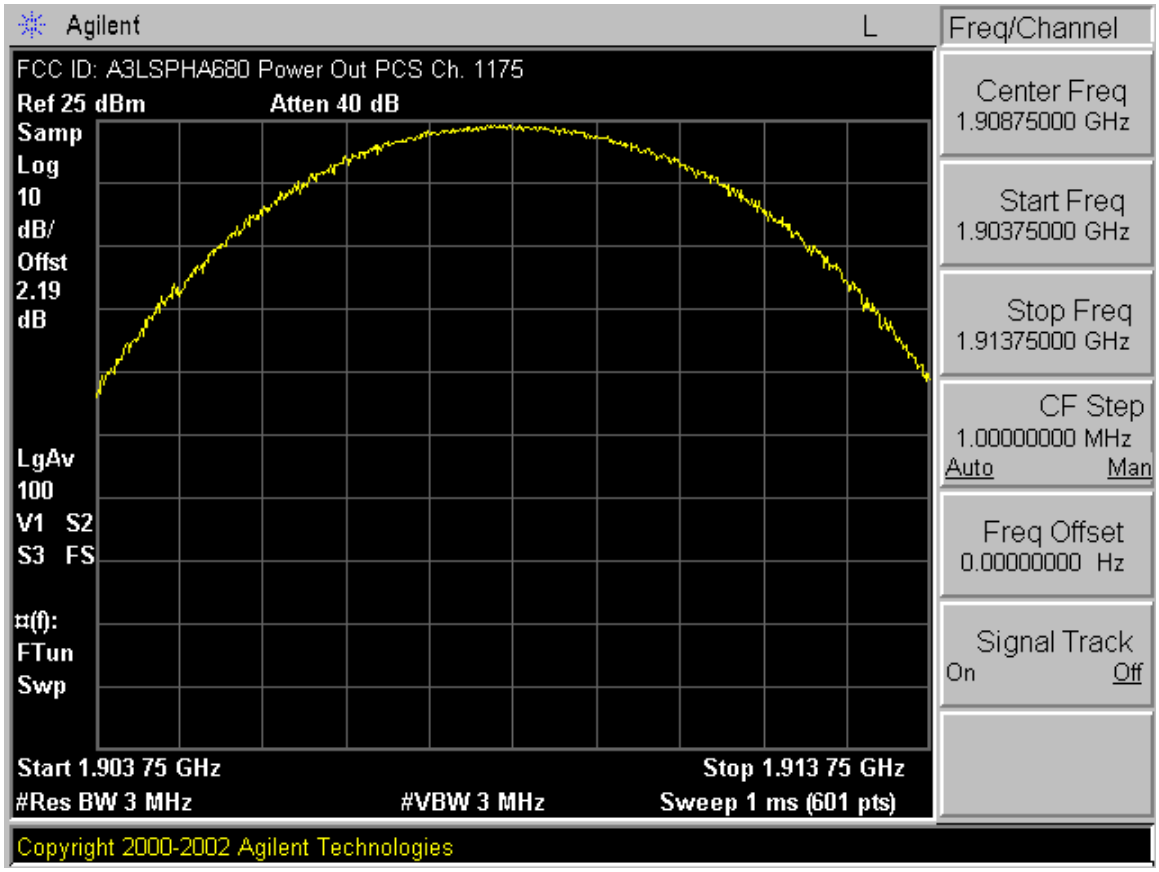

Agilent
L
Freq/Channel
FCC ID: A3LSPHA680 Cond Spurs PCS Ch. 1175
Mkr1 2.429 GHz
Ref 25 dBm
Atten 40 dB
-38.25 dBm
Norm
Log
10
dB/
Offst
2.19
dB
Dl
-13.0
dBm
LgAv
V1 S2
S3 FC
¤(f):
FTun
Swp
Center Freq
1.25500000 GHz
Start Freq
10.0000000 MHz
Stop Freq
2.50000000 GHz
CF Step
249.000000 MHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
Start 10 MHz
Stop 2.500 GHz
#Res BW 1 MHz
#VBW 1 MHz
Sweep 4.16 ms (601 pts)
Copyright 2000-2002 Agilent Technologies

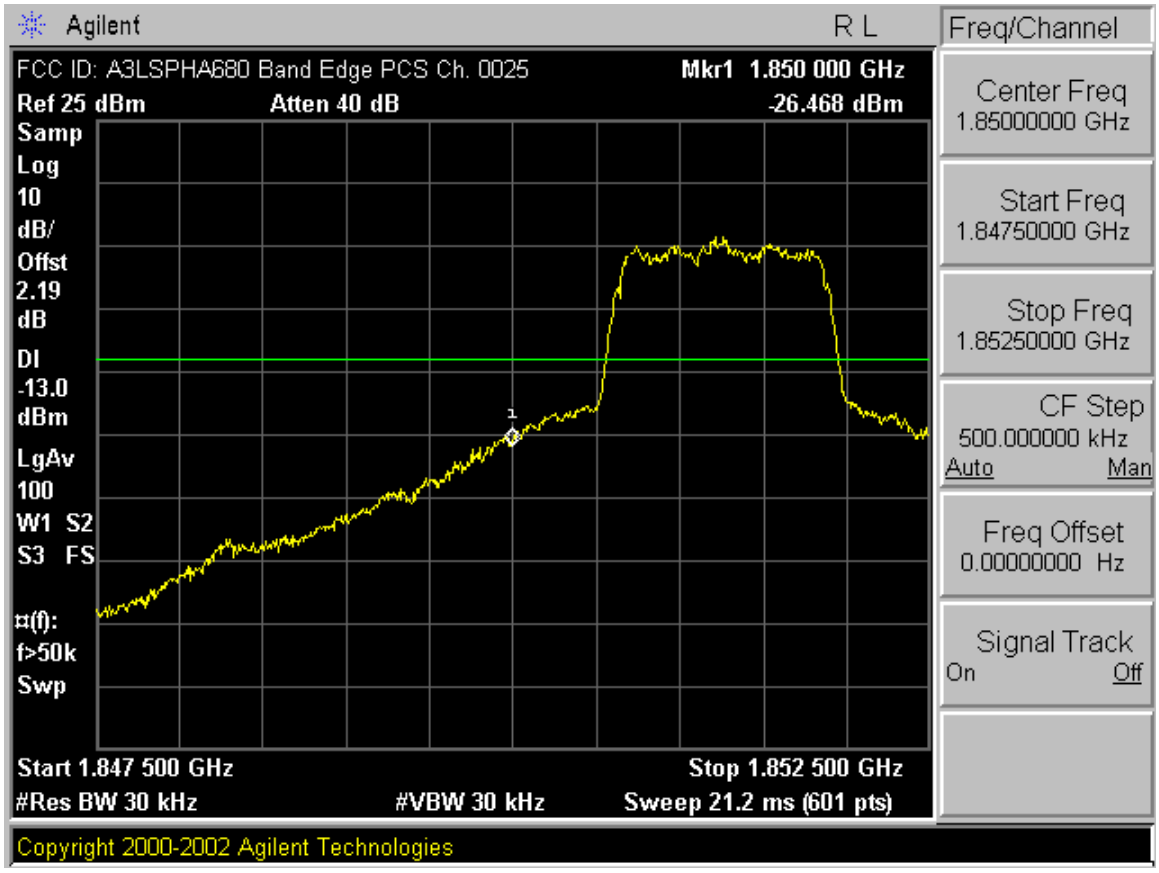

Agilent
L
Freq/Channel
FCC ID: A3LSPHA680 Cond Spurs PCS Ch. 1175
Mkr1 3.81 GHz
Ref 25 dBm
Atten 40 dB
-17.70 dBm
Norm
Log
10
dB/
Offst
2.19
dB
Dl
-13.0
dBm
LgAv
V1 S2
S3 FC
¤(f):
FTun
Swp
Center Freq
11.2500000 GHz
Start Freq
2.50000000 GHz
Stop Freq
20.0000000 GHz
CF Step
1.75000000 GHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
Start 2.50 GHz
Stop 20.00 GHz
#Res BW 1 MHz
#VBW 1 MHz
Sweep 43.76 ms (601 pts)
Copyright 2000-2002 Agilent Technologies

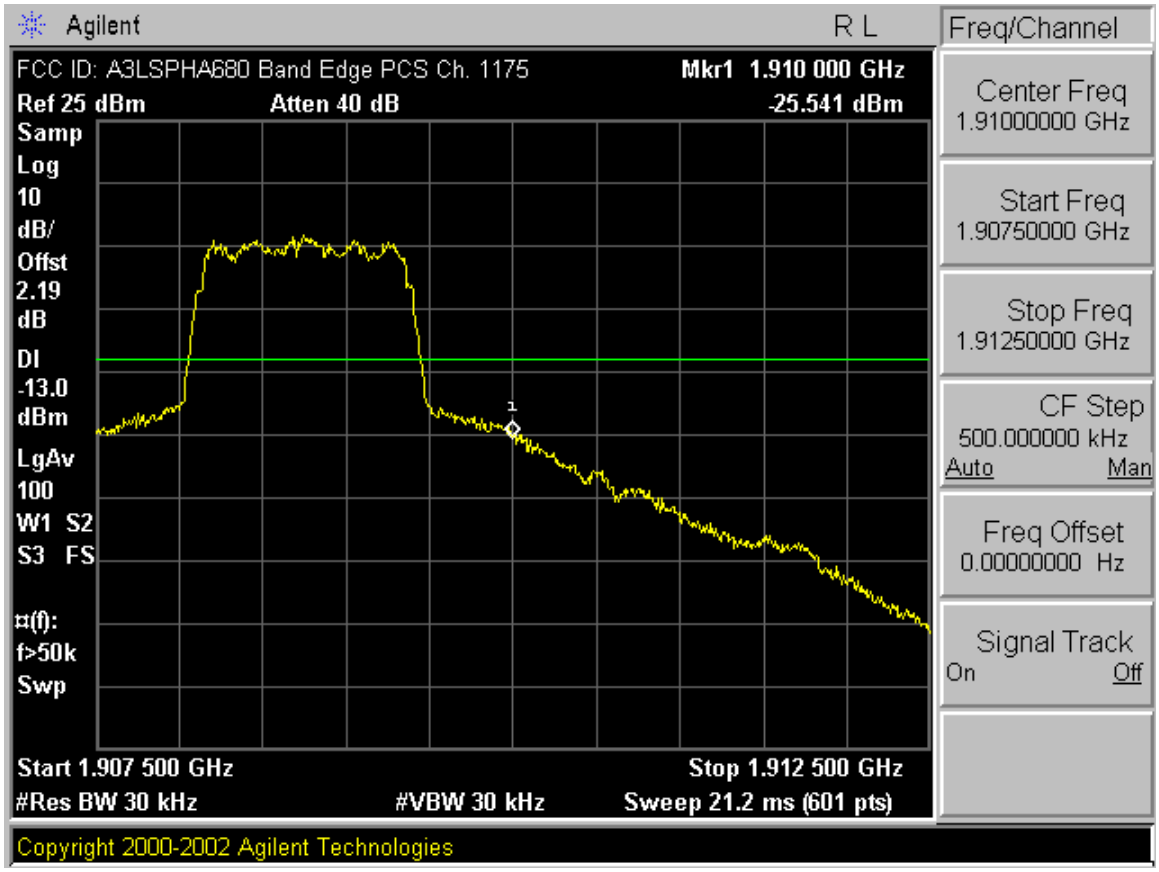

Agilent
R L
Freq/Channel
FCC ID: A3LSPHA680 Power Out PCS Ch. 0025
Ref 25 dBm
Atten 40 dB
Samp
Log
10
dB/
Offst
2.19
dB
LgAv
100
V1 S2
S3 FS
¤(f):
FTun
Swp
Center Freq
1.85125000 GHz
Start Freq
1.84625000 GHz
Stop Freq
1.85625000 GHz
CF Step
1.00000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
Start 1.846 25 GHz
Stop 1.856 25 GHz
#Res BW 3 MHz
#VBW 3 MHz
Sweep 1 ms (601 pts)
Copyright 2000-2002 Agilent Technologies

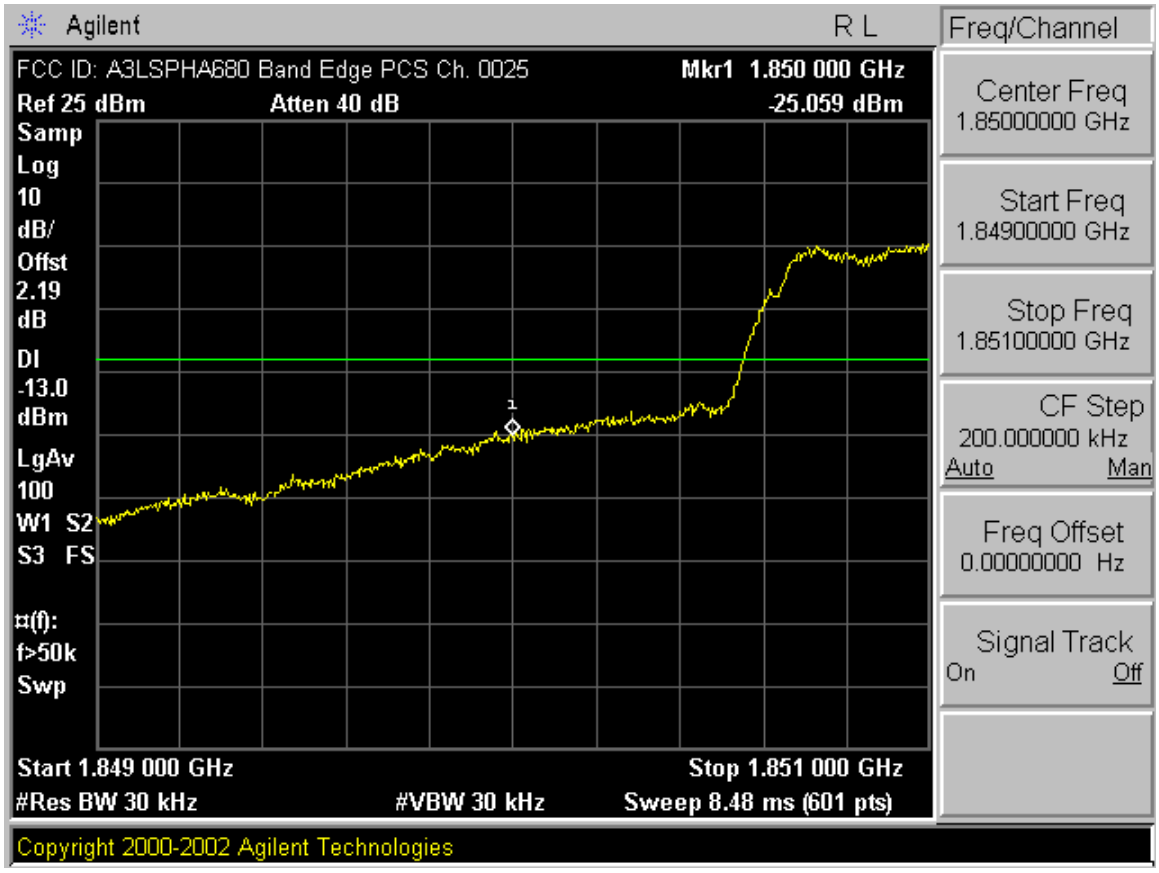

Agilent
R L
Freq/Channel
FCC ID: A3LSPHA680 Power Out PCS Ch. 0600
Ref 25 dBm
Atten 40 dB
Samp
Log
10
dB/
Offst
2.19
dB
LgAv
100
V1 S2
S3 FS
¤(f):
FTun
Swp
Center Freq
1.88000000 GHz
Start Freq
1.87500000 GHz
Stop Freq
1.88500000 GHz
CF Step
1.00000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
Start 1.875 00 GHz
Stop 1.885 00 GHz
#Res BW 3 MHz
#VBW 3 MHz
Sweep 1 ms (601 pts)
Copyright 2000-2002 Agilent Technologies

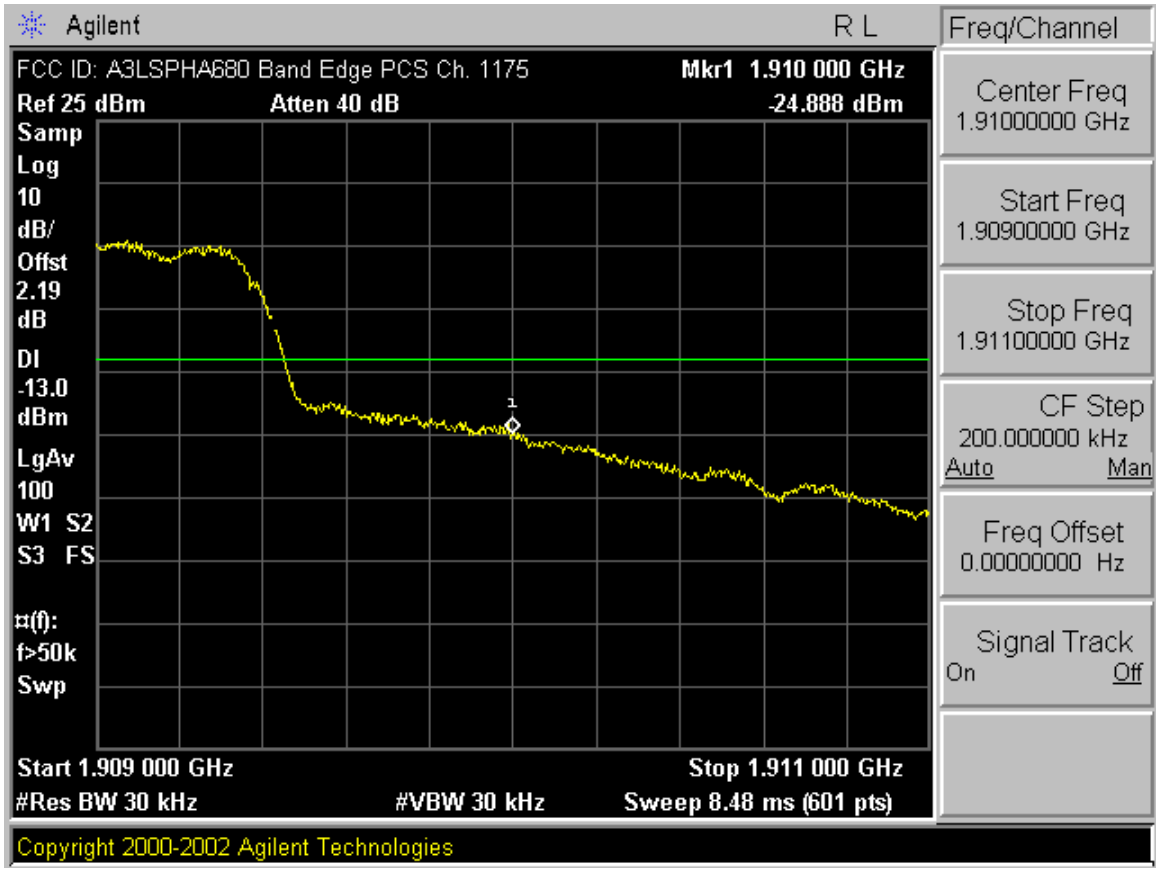

Agilent
L
Freq/Channel
FCC ID: A3LSPHA680 Power Out PCS Ch. 1175
Ref 25 dBm
Atten 40 dB
Samp
Log
10
dB/
Offst
2.19
dB
LgAv
100
V1 S2
S3 FS
¤(f):
FTun
Swp
Start 1.903 75 GHz
Stop 1.913 75 GHz
#Res BW 3 MHz
#VBW 3 MHz
Sweep 1 ms (601 pts)
Center Freq
1.90875000 GHz
Start Freq
1.90375000 GHz
Stop Freq
1.91375000 GHz
CF Step
1.00000000 MHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
Copyright 2000-2002 Agilent Technologies

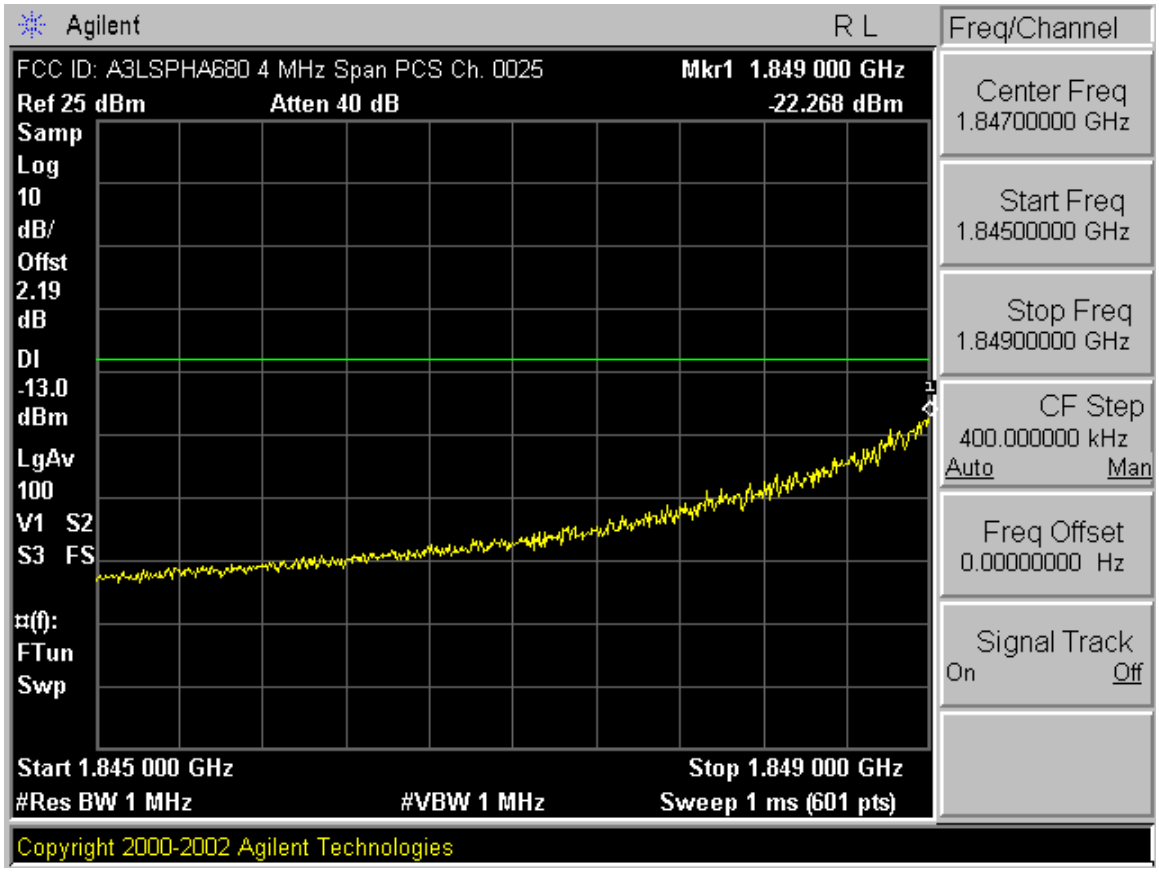

Agilent
L
Freq/Channel
FCC ID: A3LSPHA680 Power Out PCS Ch. 1175
Ref 25 dBm
Atten 40 dB
Samp
Log
10
dB/
Offst
2.19
dB
LgAv
100
V1 S2
S3 FS
¤(f):
FTun
Swp
Start 1.903 75 GHz
Stop 1.913 75 GHz
#Res BW 3 MHz
#VBW 3 MHz
Sweep 1 ms (601 pts)
Center Freq
1.90875000 GHz
Start Freq
1.90375000 GHz
Stop Freq
1.91375000 GHz
CF Step
1.00000000 MHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
Copyright 2000-2002 Agilent Technologies


Agilent
R L
Freq/Channel
FCC ID: A3LSPHA680 Band Edge PCS Ch. 0025
Mkr1 1.850 000 GHz
Ref 25 dBm
Atten 40 dB
-26.468 dBm
Samp
Log
10
dB/
Offst
2.19
dB
Dl
-13.0
dBm
LgAv
100
W1 S2
S3 FS
¤(f):
f>50k
Swp
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
Start 1.847 500 GHz
Stop 1.852 500 GHz
#Res BW 30 kHz
#VBW 30 kHz
Sweep 21.2 ms (601 pts)
Copyright 2000-2002 Agilent Technologies


Agilent
R L
Freq/Channel
FCC ID: A3LSPHA680 Band Edge PCS Ch. 1175
Mkr1 1.910 000 GHz
Ref 25 dBm
Atten 40 dB
-25.541 dBm
Samp
Log
10
dB/
Offst
2.19
dB
Dl
-13.0
dBm
LgAv
100
W1 S2
S3 FS
¤(f):
f>50k
Swp
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
Start 1.907 500 GHz
Stop 1.912 500 GHz
#Res BW 30 kHz
#VBW 30 kHz
Sweep 21.2 ms (601 pts)
Copyright 2000-2002 Agilent Technologies


Agilent
R L
Freq/Channel
FCC ID: A3LSPHA680 Band Edge PCS Ch. 0025
Mkr1 1.850 000 GHz
Ref 25 dBm
Atten 40 dB
-25.059 dBm
Samp
Log
10
dB/
Offst
2.19
dB
Dl
-13.0
dBm
LgAv
100
W1 S2
S3 FS
¤(f):
f>50k
Swp
Center Freq
1.85000000 GHz
Start Freq
1.84900000 GHz
Stop Freq
1.85100000 GHz
CF Step
200.000000 kHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
Start 1.849 000 GHz
Stop 1.851 000 GHz
#Res BW 30 kHz
#VBW 30 kHz
Sweep 8.48 ms (601 pts)
Copyright 2000-2002 Agilent Technologies


Agilent
R L
Freq/Channel
FCC ID: A3LSPHA680 Band Edge PCS Ch. 1175
Mkr1 1.910 000 GHz
Ref 25 dBm
Atten 40 dB
-24.888 dBm
Samp
Log
10
dB/
Offst
2.19
dB
Dl
-13.0
dBm
LgAv
100
W1 S2
S3 FS
¤(f):
f>50k
Swp
Center Freq
1.91000000 GHz
Start Freq
1.90900000 GHz
Stop Freq
1.91100000 GHz
CF Step
200.000000 kHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
Start 1.909 000 GHz
Stop 1.911 000 GHz
#Res BW 30 kHz
#VBW 30 kHz
Sweep 8.48 ms (601 pts)
Copyright 2000-2002 Agilent Technologies


Agilent
R L
Freq/Channel
FCC ID: A3LSPHA680 4 MHz Span PCS Ch. 0025
Mkr1 1.849 000 GHz
Ref 25 dBm
Atten 40 dB
-22.268 dBm
Samp
Log
10
dB/
Offst
2.19
dB
Dl
-13.0
dBm
LgAv
100
V1 S2
S3 FS
¤(f):
FTun
Swp
Center Freq
1.84700000 GHz
Start Freq
1.84500000 GHz
Stop Freq
1.84900000 GHz
CF Step
400.000000 kHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
Start 1.845 000 GHz
Stop 1.849 000 GHz
#Res BW 1 MHz
#VBW 1 MHz
Sweep 1 ms (601 pts)
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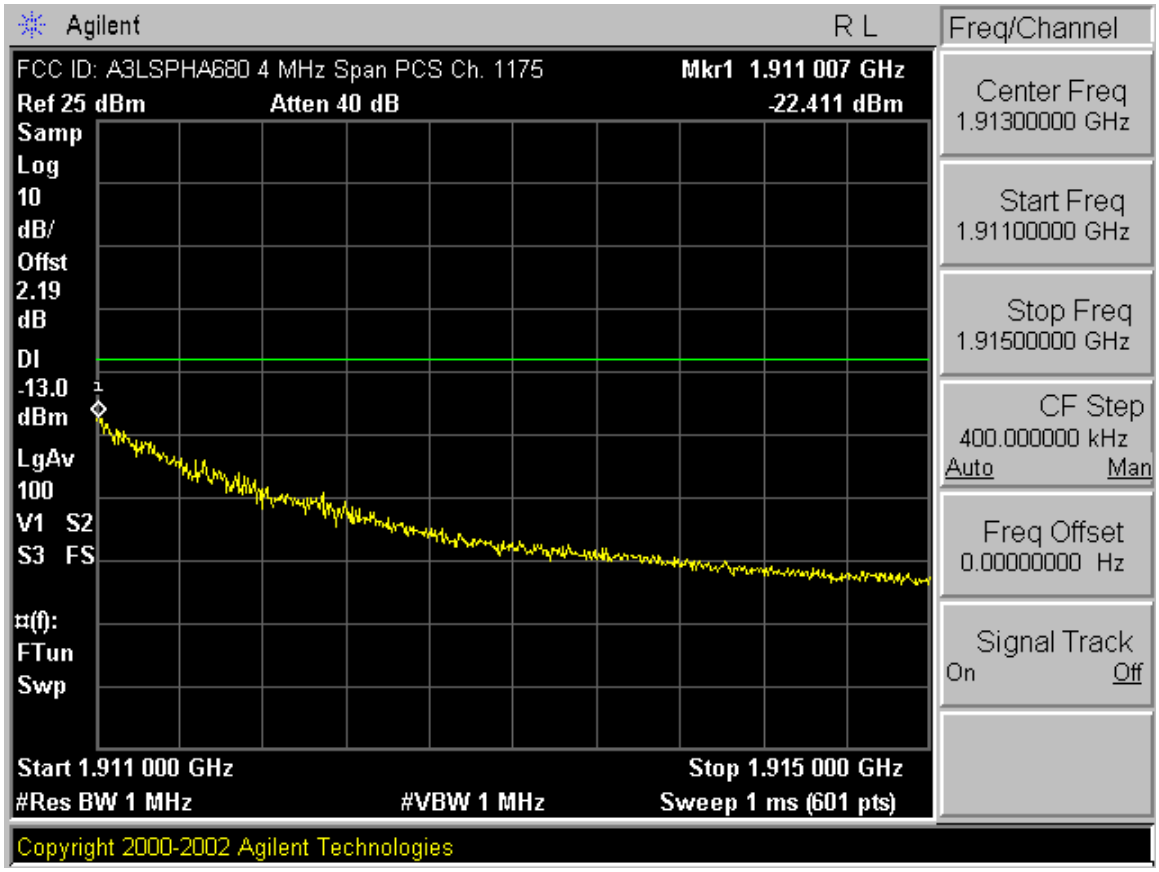
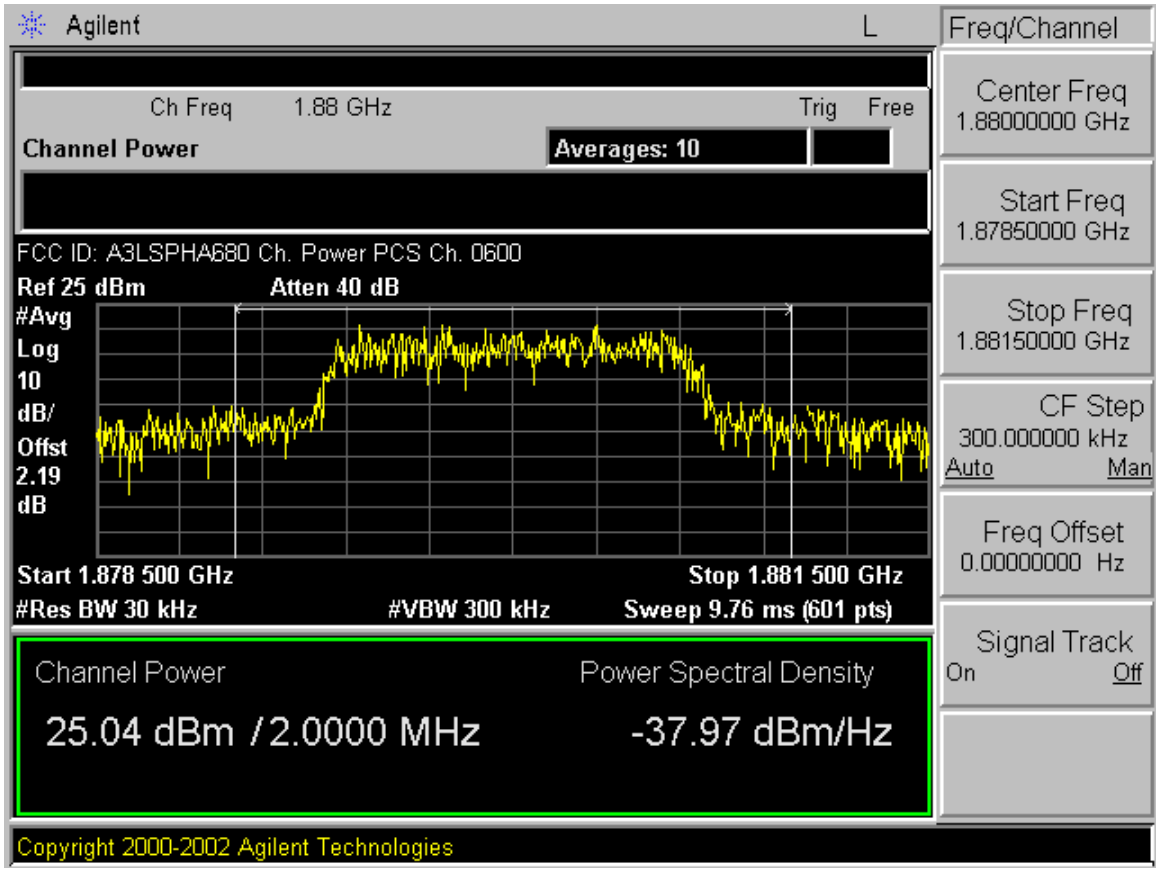
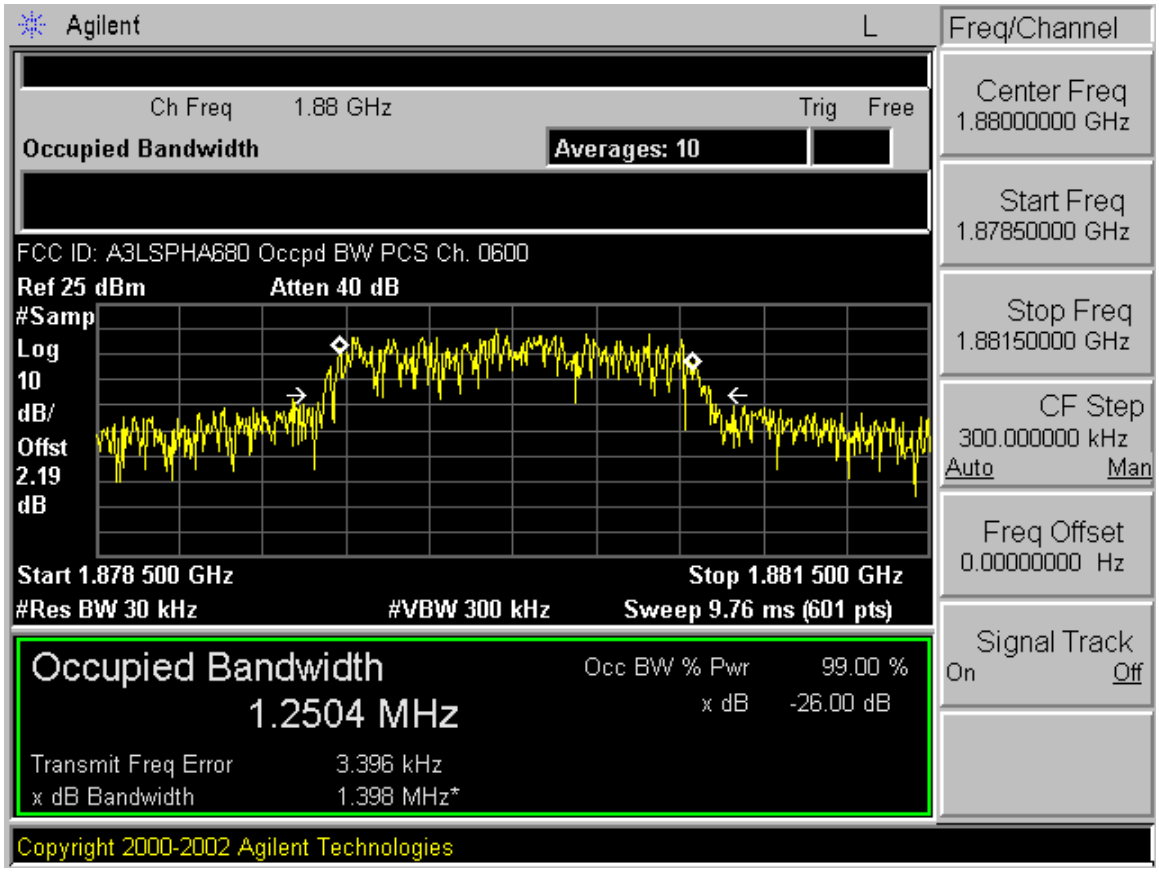

Agilent
R L
Freq/Channel
FCC ID: A3LSPHA680 4 MHz Span PCS Ch. 1175
Mkr1 1.911 007 GHz
Ref 25 dBm
Atten 40 dB
-22.411 dBm
Samp
Log
10
dB/
Offst
2.19
dB
Dl
-13.0
dBm
LgAv
100
V1 S2
S3 FS
¤(f):
FTun
Swp
Center Freq
1.91300000 GHz
Start Freq
1.91100000 GHz
Stop Freq
1.91500000 GHz
CF Step
400.000000 kHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
Start 1.911 000 GHz
Stop 1.915 000 GHz
#Res BW 1 MHz
#VBW 1 MHz
Sweep 1 ms (601 pts)
Copyright 2000-2002 Agilent Technologies


Agilent
L
Freq/Channel
Ch Freq 1.88 GHz
Trig Free
Channel Power
Averages: 10
FCC ID: A3LSPHA680 Ch. Power PCS Ch. 0600
Ref 25 dBm
Atten 40 dB
#Avg
Log
10
dB/
Offst
2.19
dB
Start 1.878 500 GHz
Stop 1.881 500 GHz
#Res BW 30 kHz
#VBW 300 kHz
Sweep 9.76 ms (601 pts)
Channel Power
25.04 dBm /2.0000 MHz
Power Spectral Density
-37.97 dBm/Hz
Center Freq
1.88000000 GHz
Start Freq
1.87850000 GHz
Stop Freq
1.88150000 GHz
CF Step
300.000000 kHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
Copyright 2000-2002 Agilent Technologies

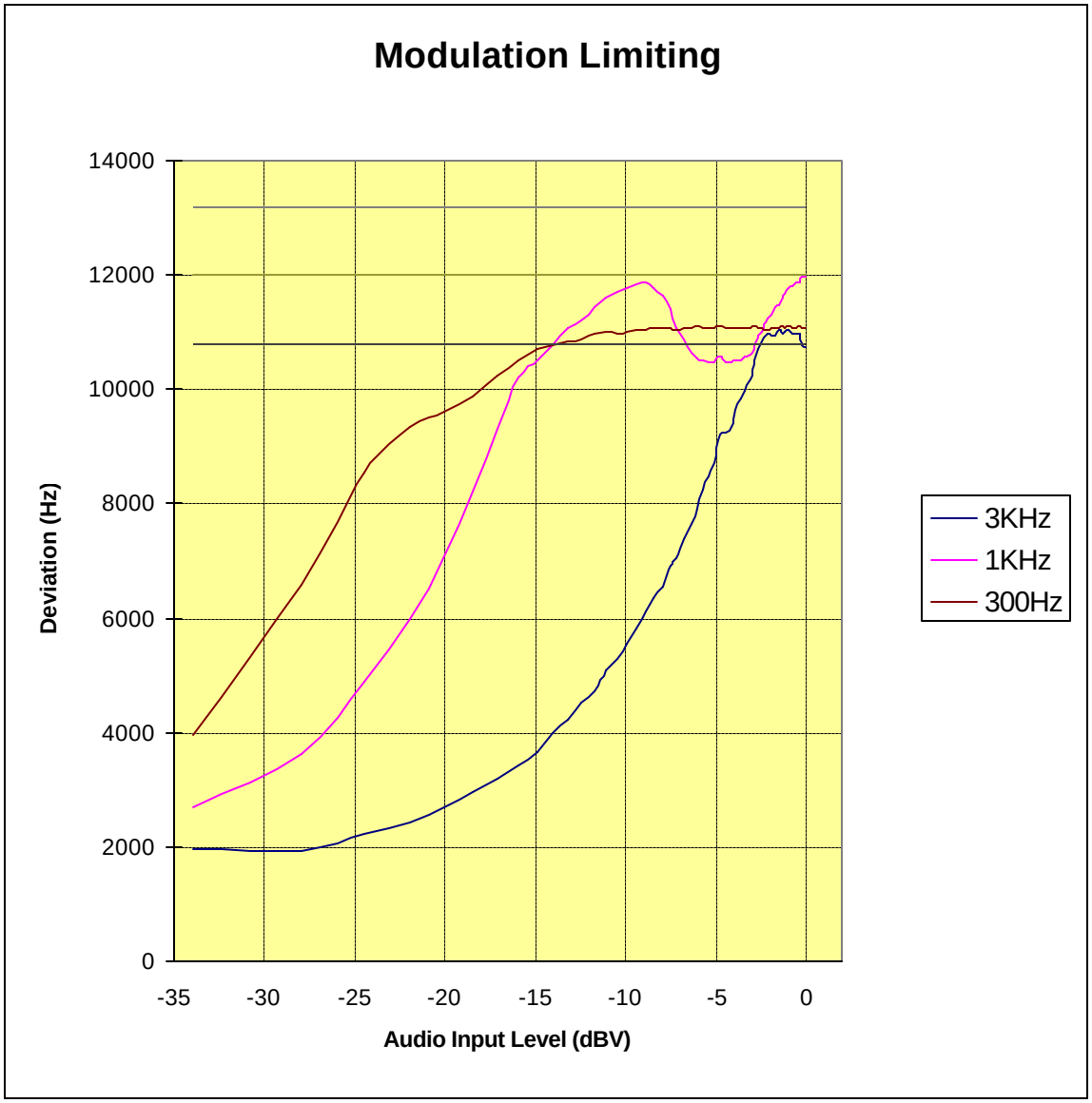

Agilent
L
Freq/Channel
Ch Freq 1.88 GHz
Trig Free
Occupied Bandwidth
Averages: 10
FCC ID: A3LSPHA680 Occpd BW PCS Ch. 0600
Ref 25 dBm
Atten 40 dB
#Samp
Log
10
dB/
Offst
2.19
dB
Start 1.878 500 GHz
Stop 1.881 500 GHz
#Res BW 30 kHz
#VBW 300 kHz
Sweep 9.76 ms (601 pts)
Occupied Bandwidth
1.2504 MHz
Occ BW % Pwr 99.00 %
x dB -26.00 dB
Transmit Freq Error 3.396 kHz
x dB Bandwidth 1.398 MHz*
Center Freq
1.88000000 GHz
Start Freq
1.87850000 GHz
Stop Freq
1.88150000 GHz
CF Step
300.000000 kHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
Copyright 2000-2002 Agilent Technologies

SUBJECT: Modulation Characteristics
FCC Part 24/22

Test Report No.: 22/24.230924478.A3L
Test Date: 09.24-26.2003

EUT: Tri-Mode Dual-Band Analog/PCS Phone (AMPS/CDMA)
Model: *SPH-A680*
FCC ID: **A3LSPHA680**

REFERENCE: 1 kHz = 0 dB



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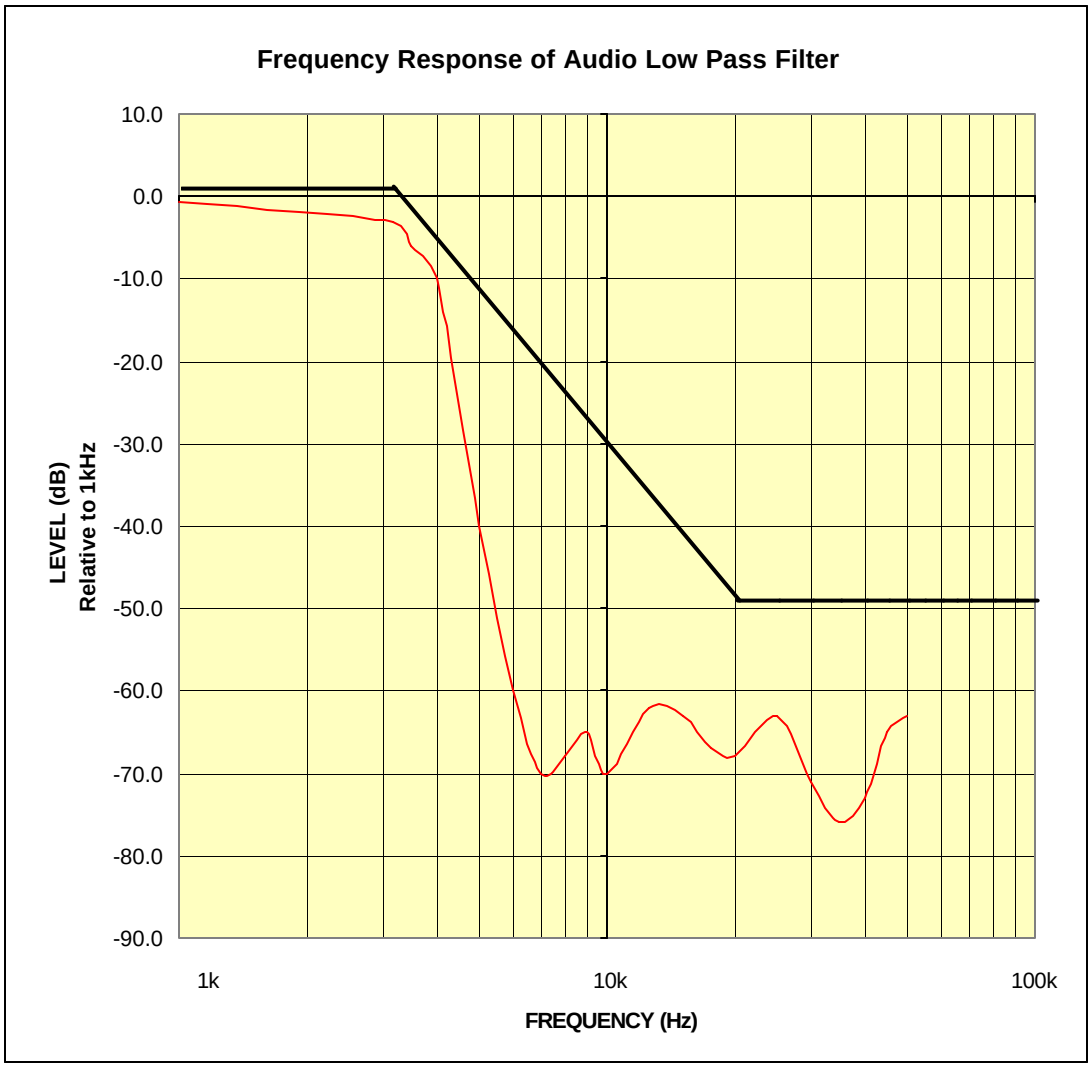

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