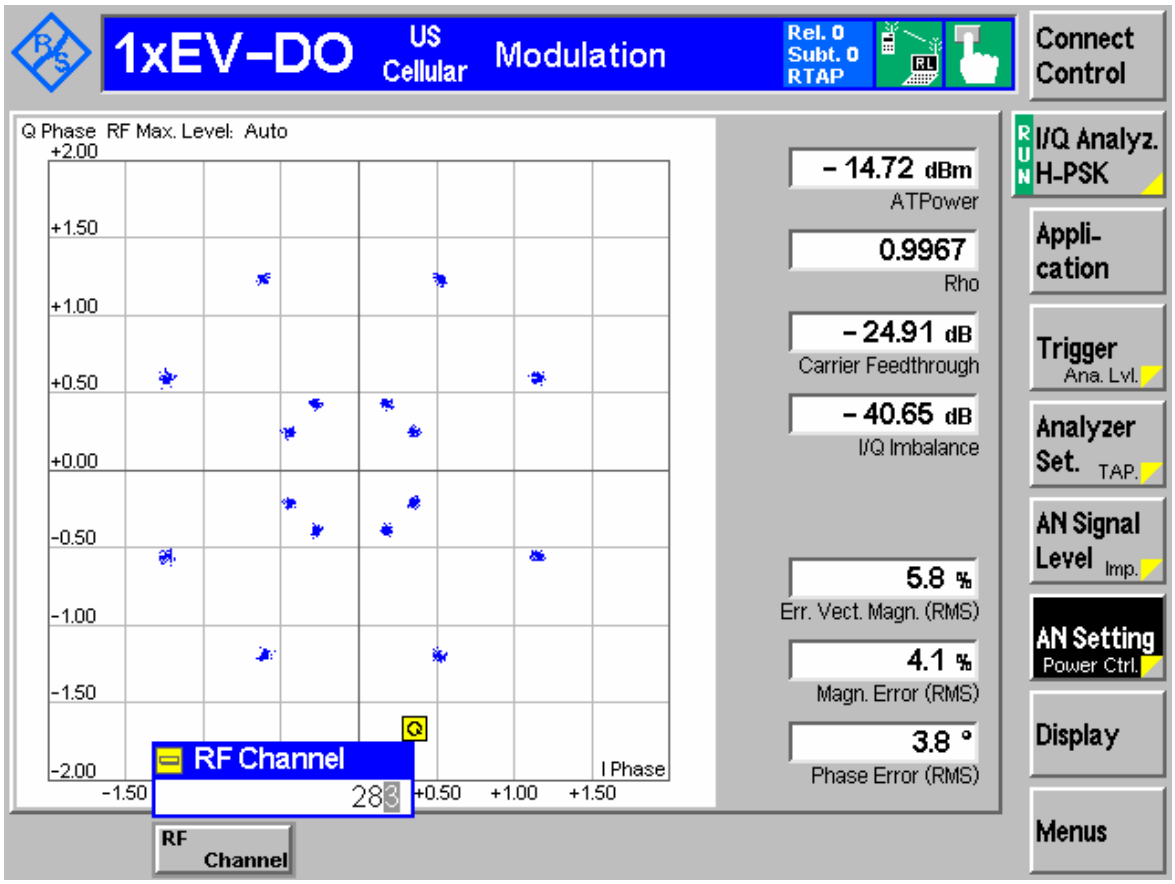
Appendix A

Modulation Characteristics

According to FCC Part 2.1047 & Part22 Subpart H

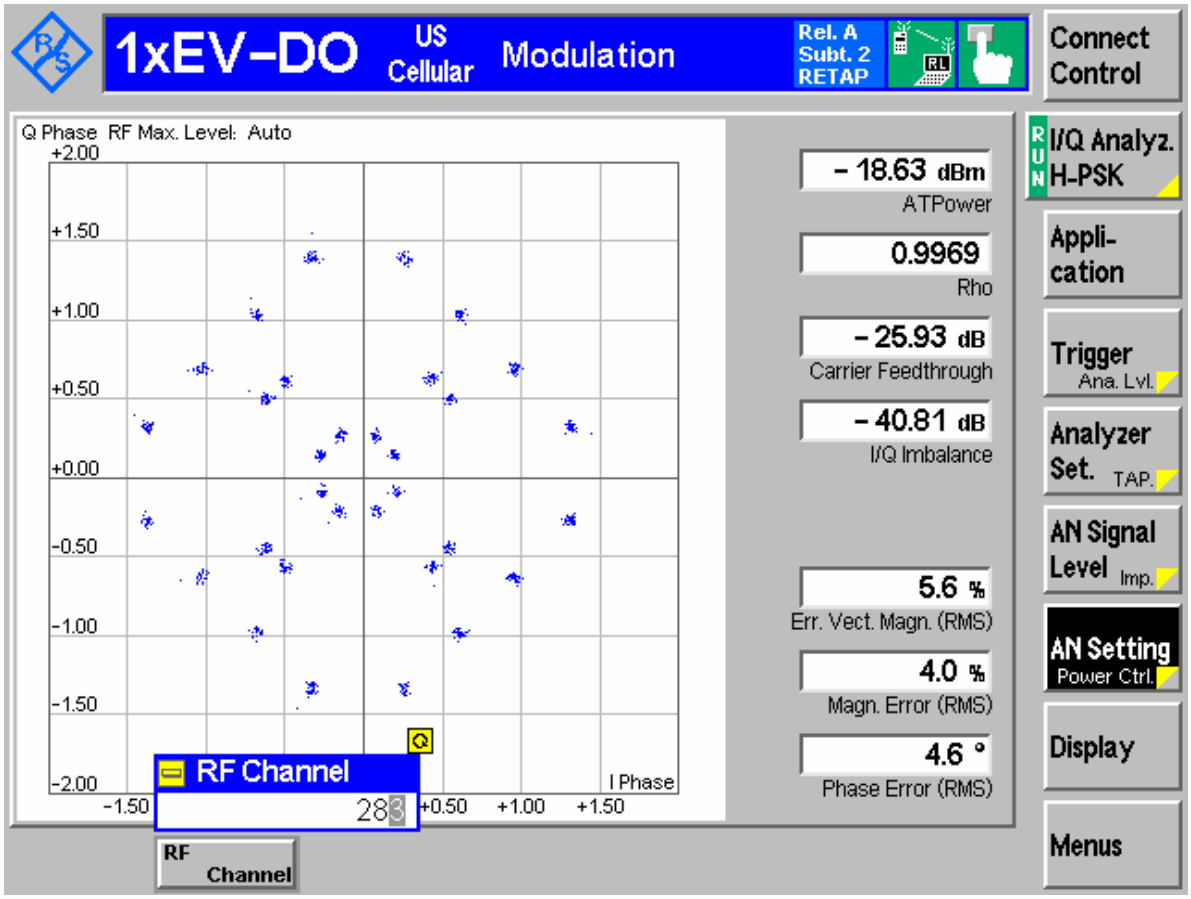
Channel 283（Subtype 0）
（HPSK）



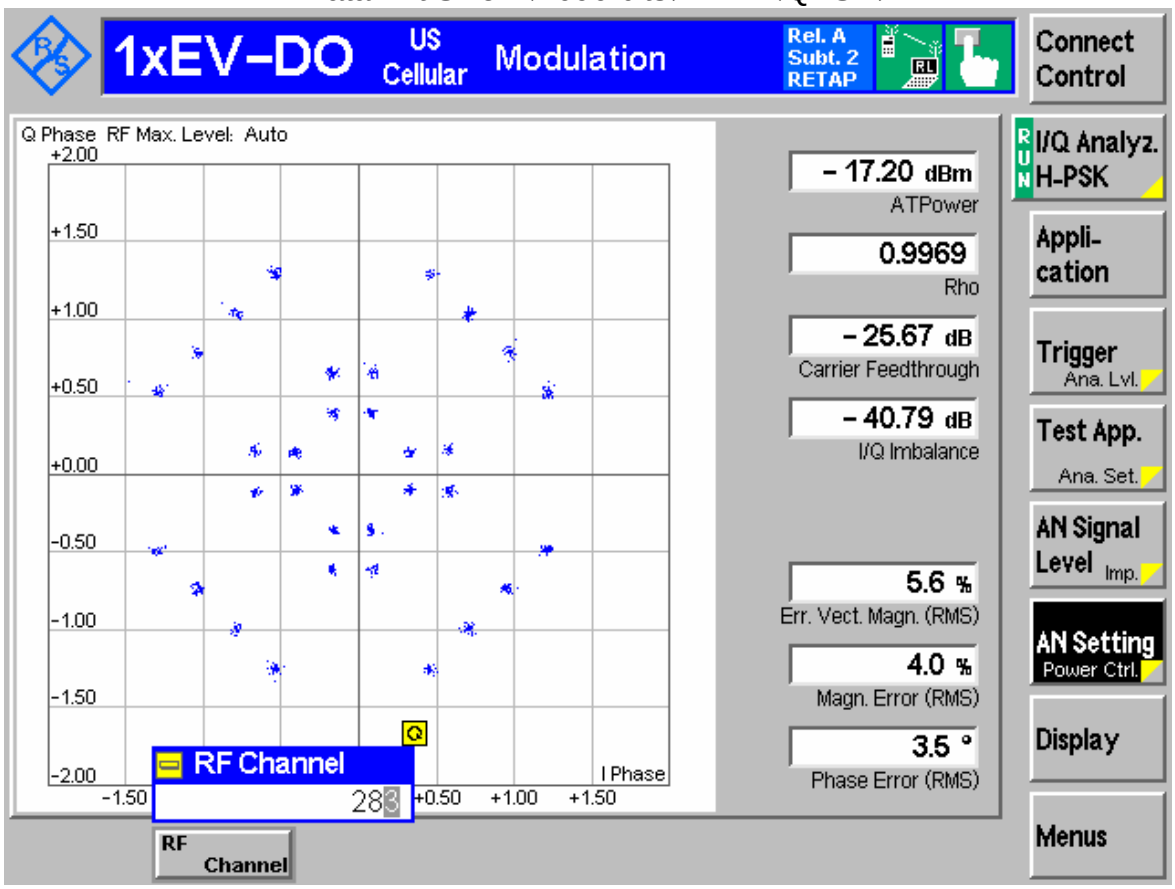
Channel 283（Subtype 2）

The R-Data packet size determines the modulation format：

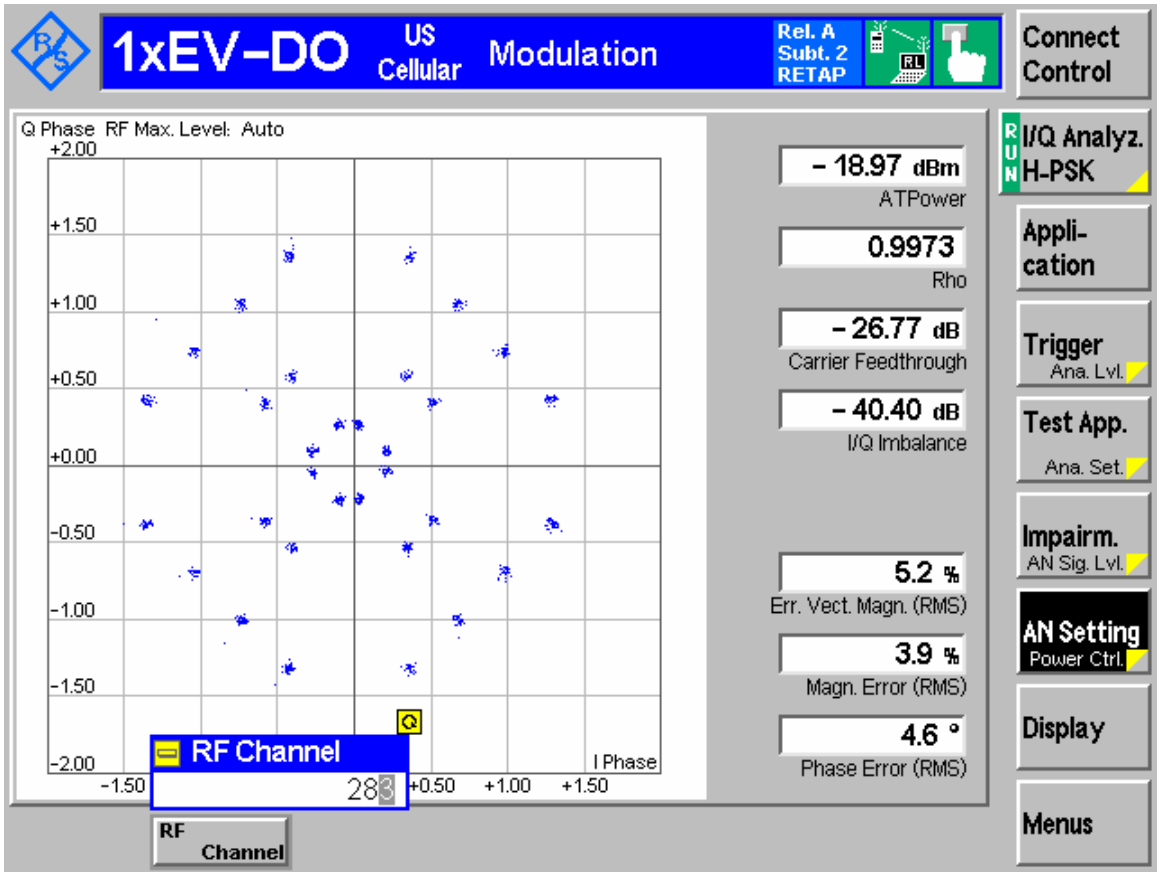
R-Data Pkt Size （256 bits）（BPSK）



R-Data Pkt Size （4096 bits） （QPSK）



R-Data Pkt Size （12288 bits）（8PSK）

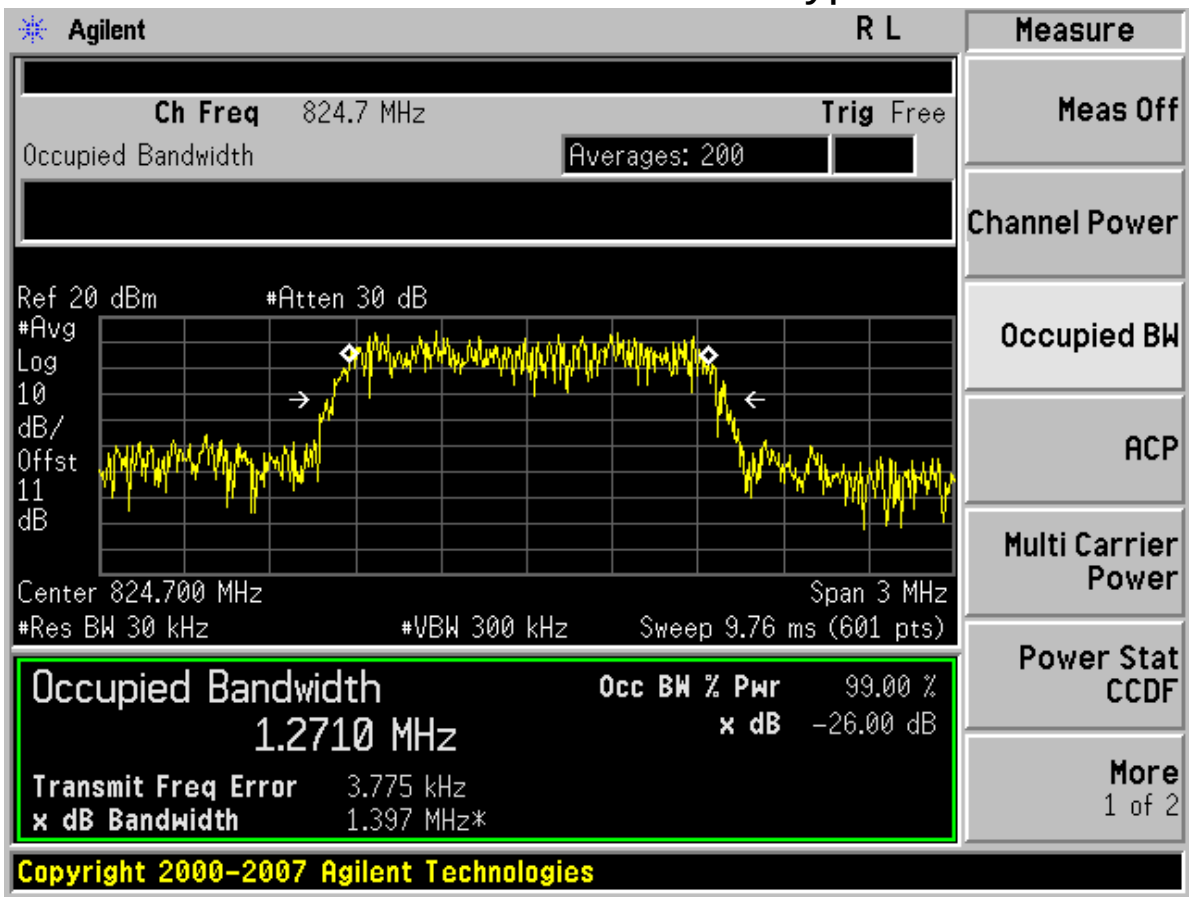


Appendix B

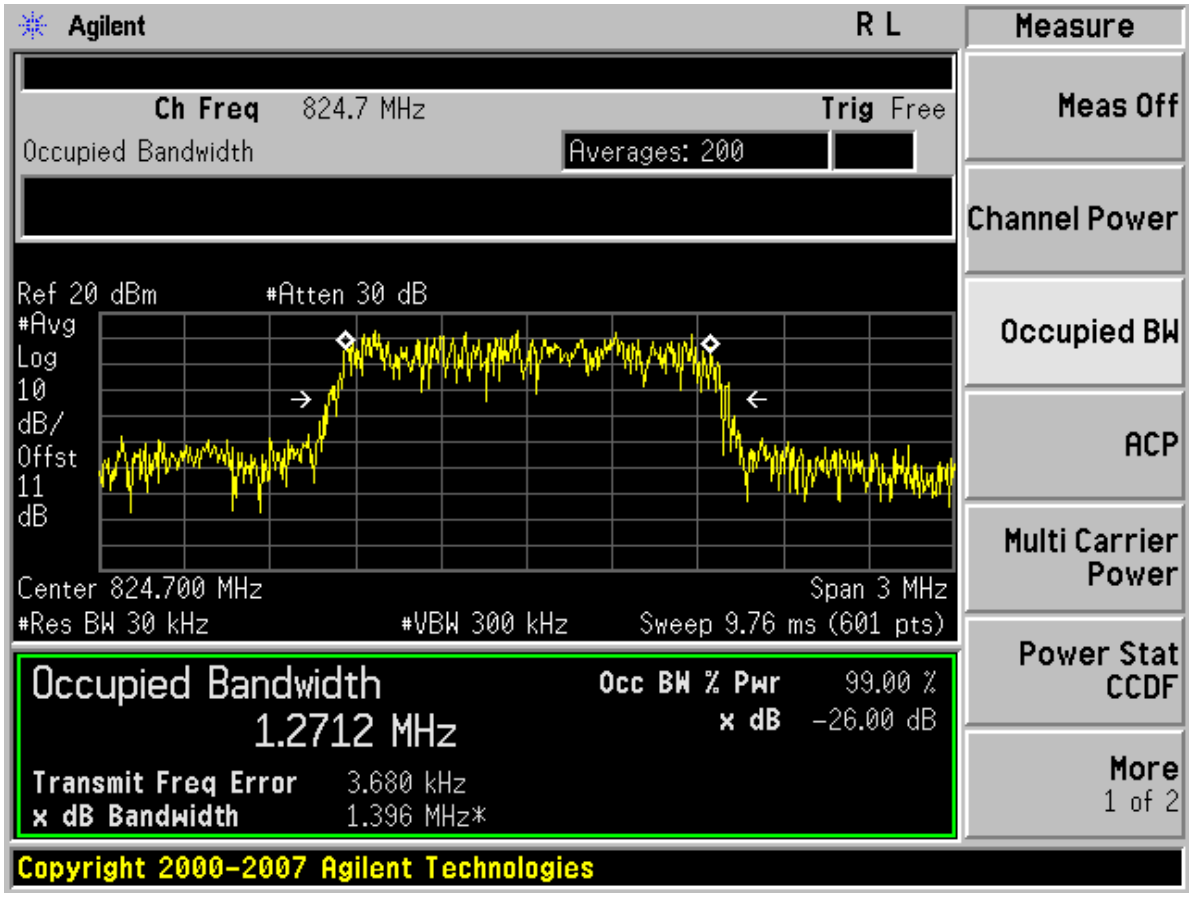
Occupied Bandwidth

According to FCC Part 2.1049 & Part 22 Subpart H

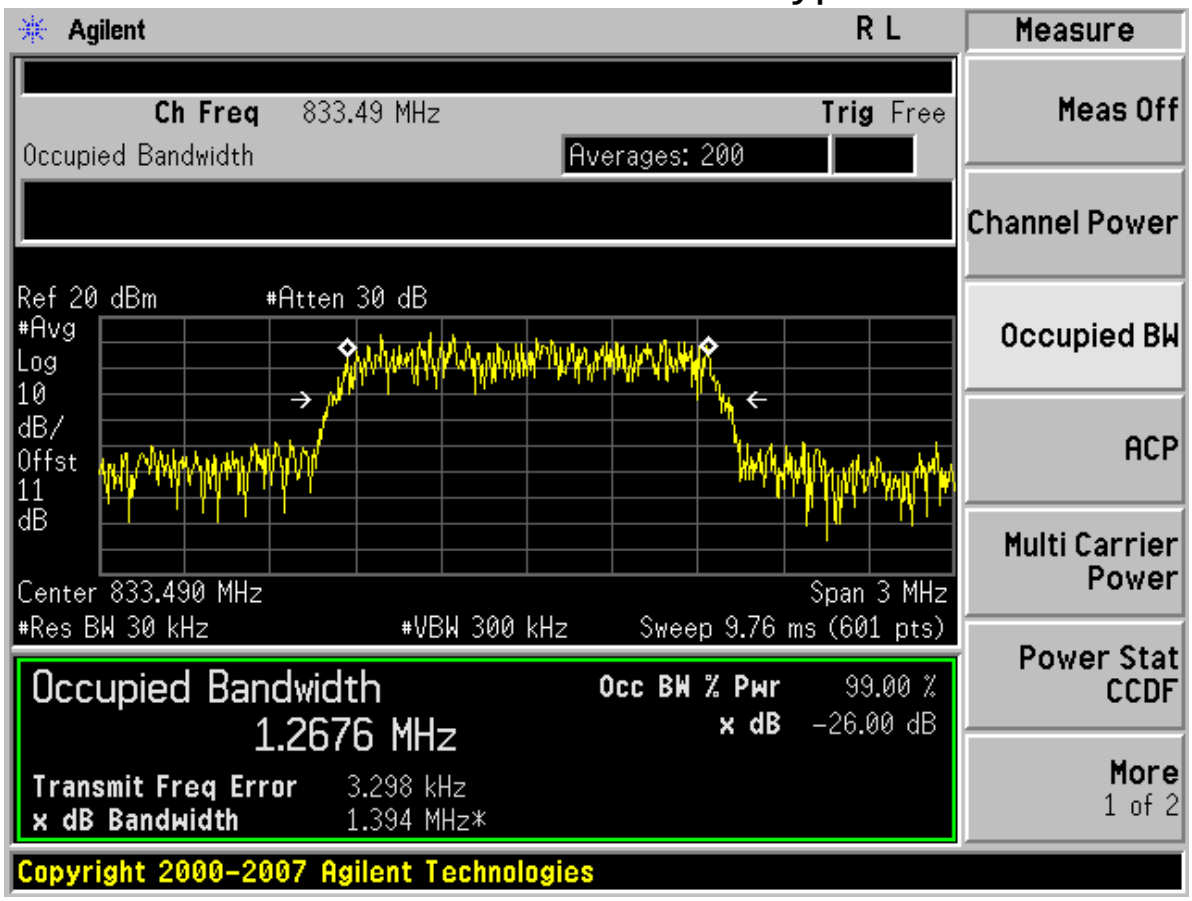
Channel 1013（EVDO subtype 0）



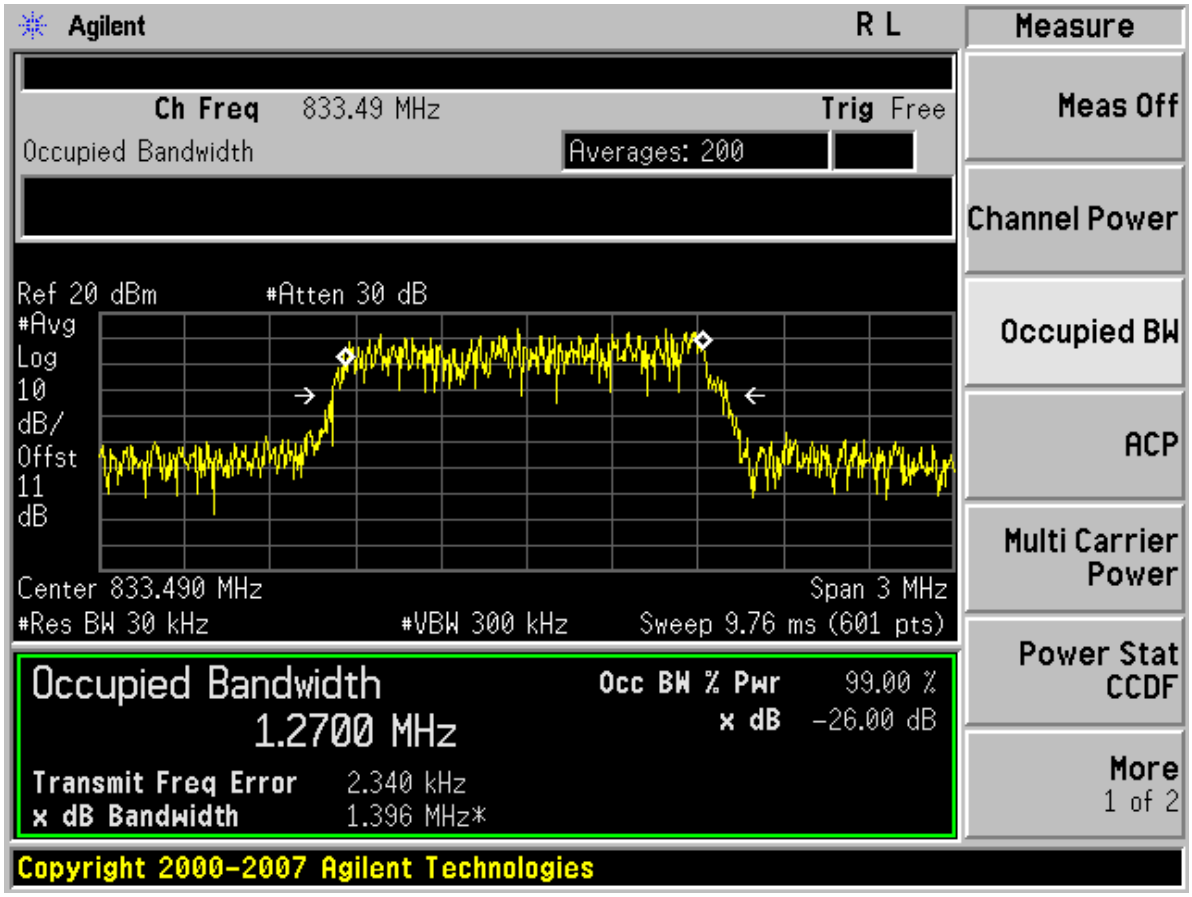
Channel 1013（EVDO SUBTYPE 2）



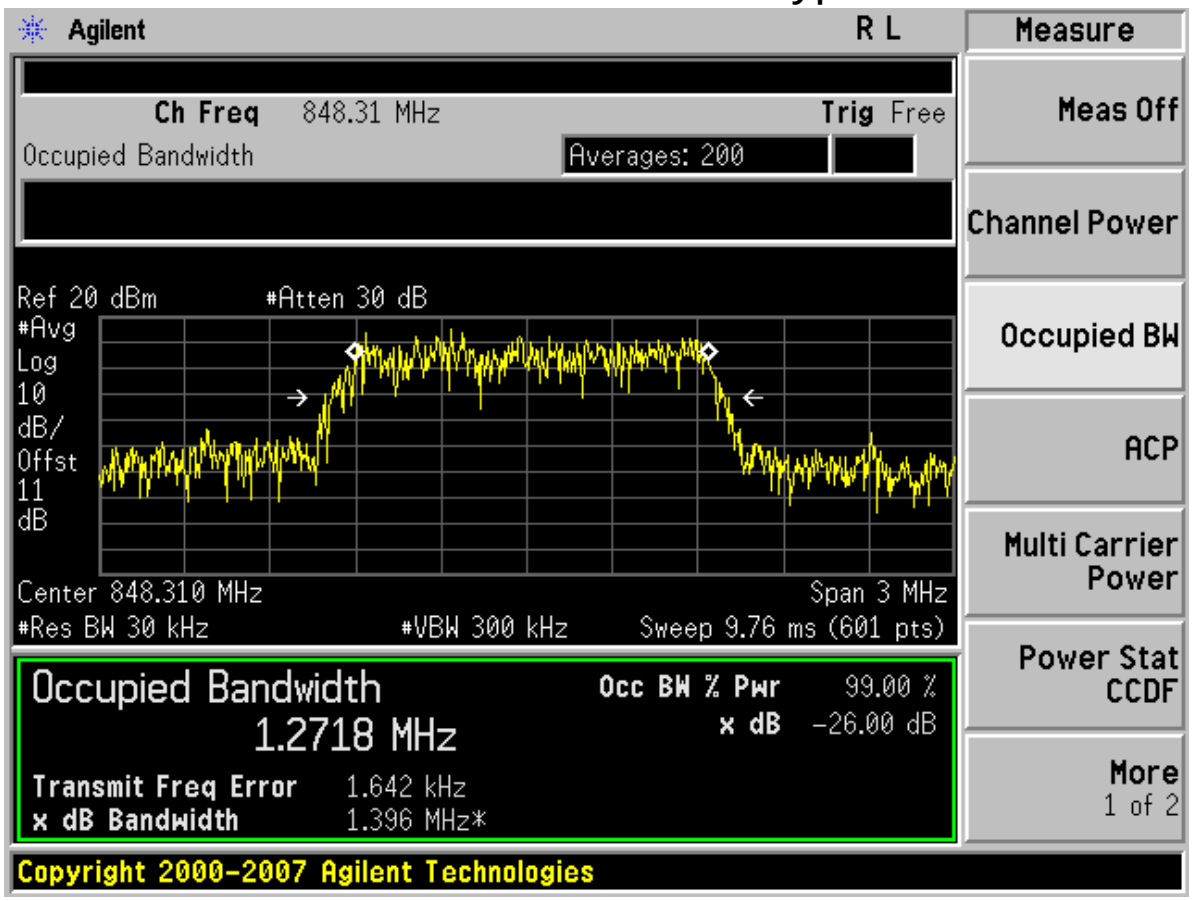
Channel 283（EVDO subtype 0）



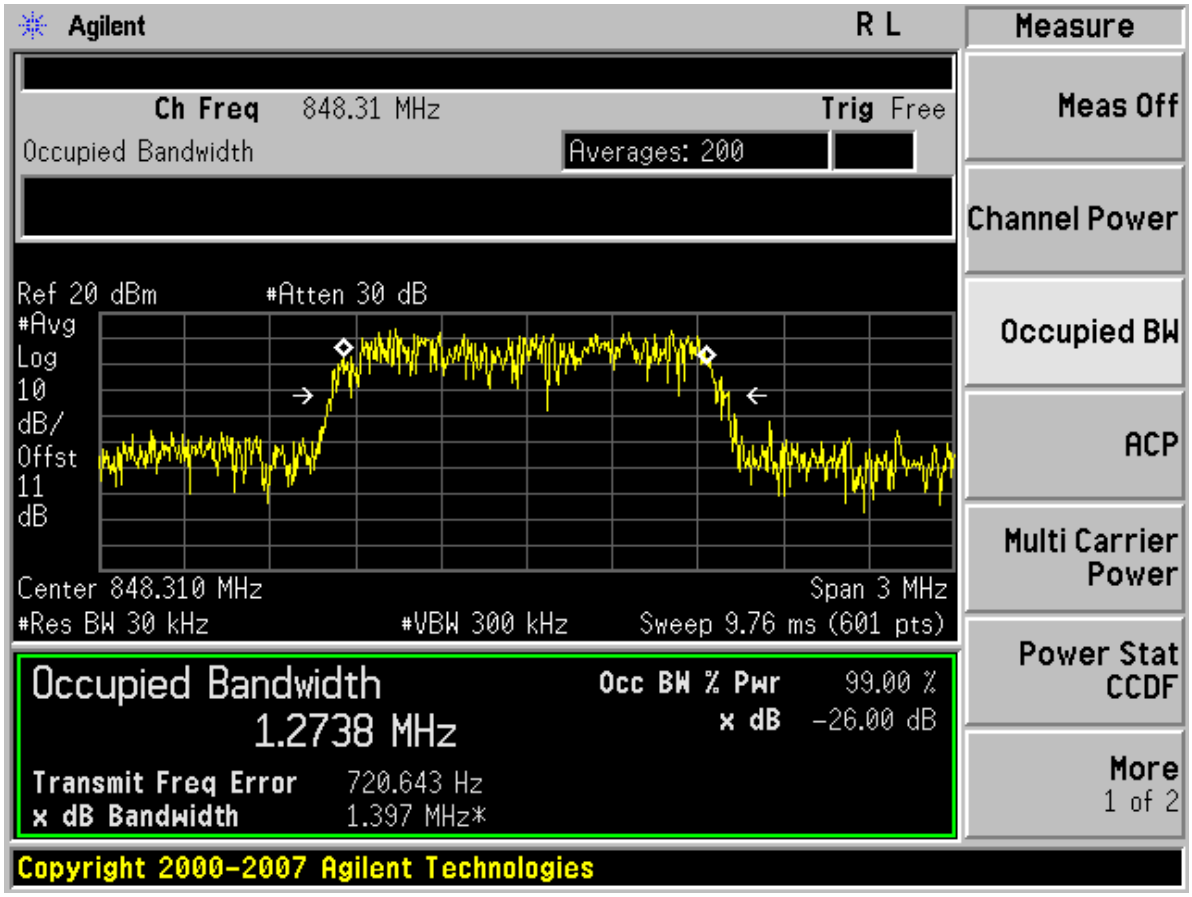
Channel 283（EVDO SUBTYPE 2）



Channel 777（EVDO subtype 0）



Channel 777（EVDO SUBTYPE 2）



Appendix C

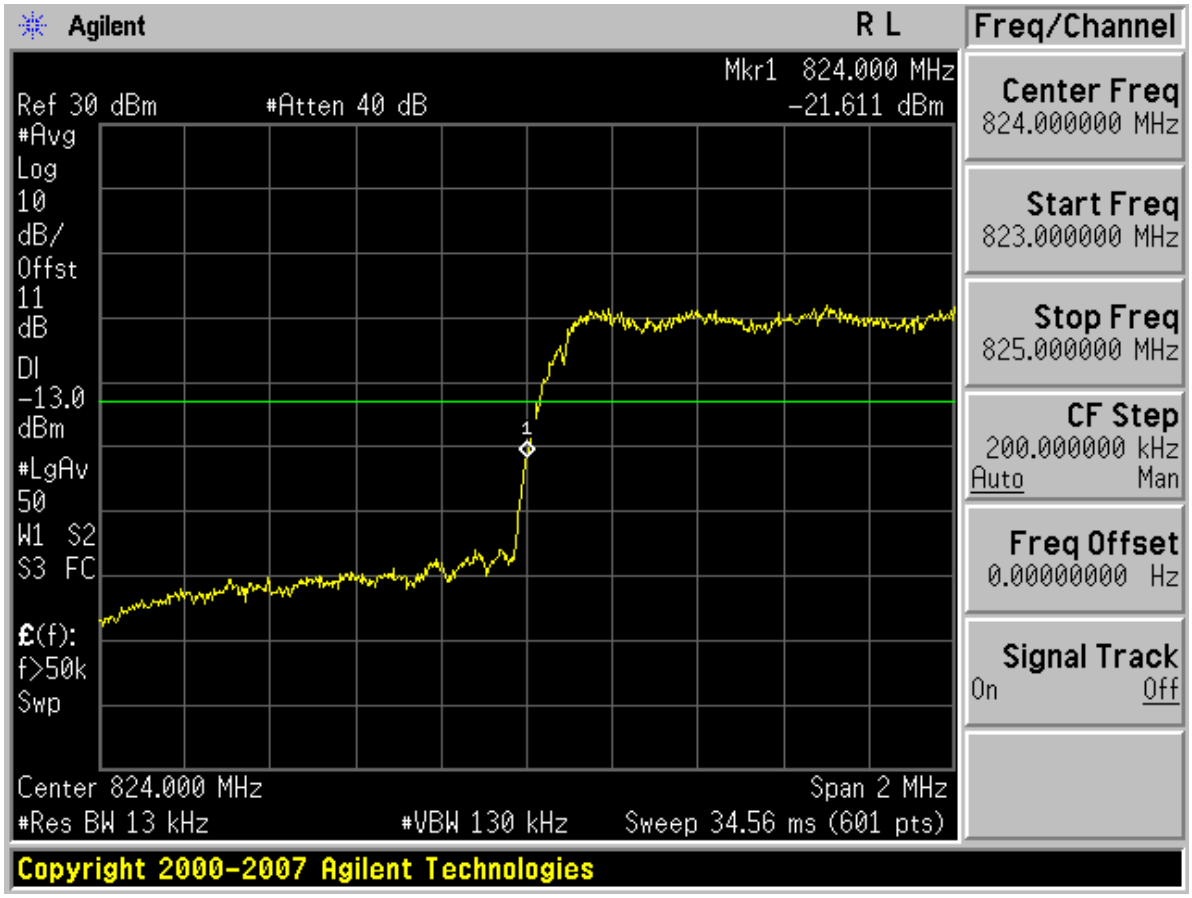
Band Edges Compliance

According to FCC Part 2.1051 & 22.917

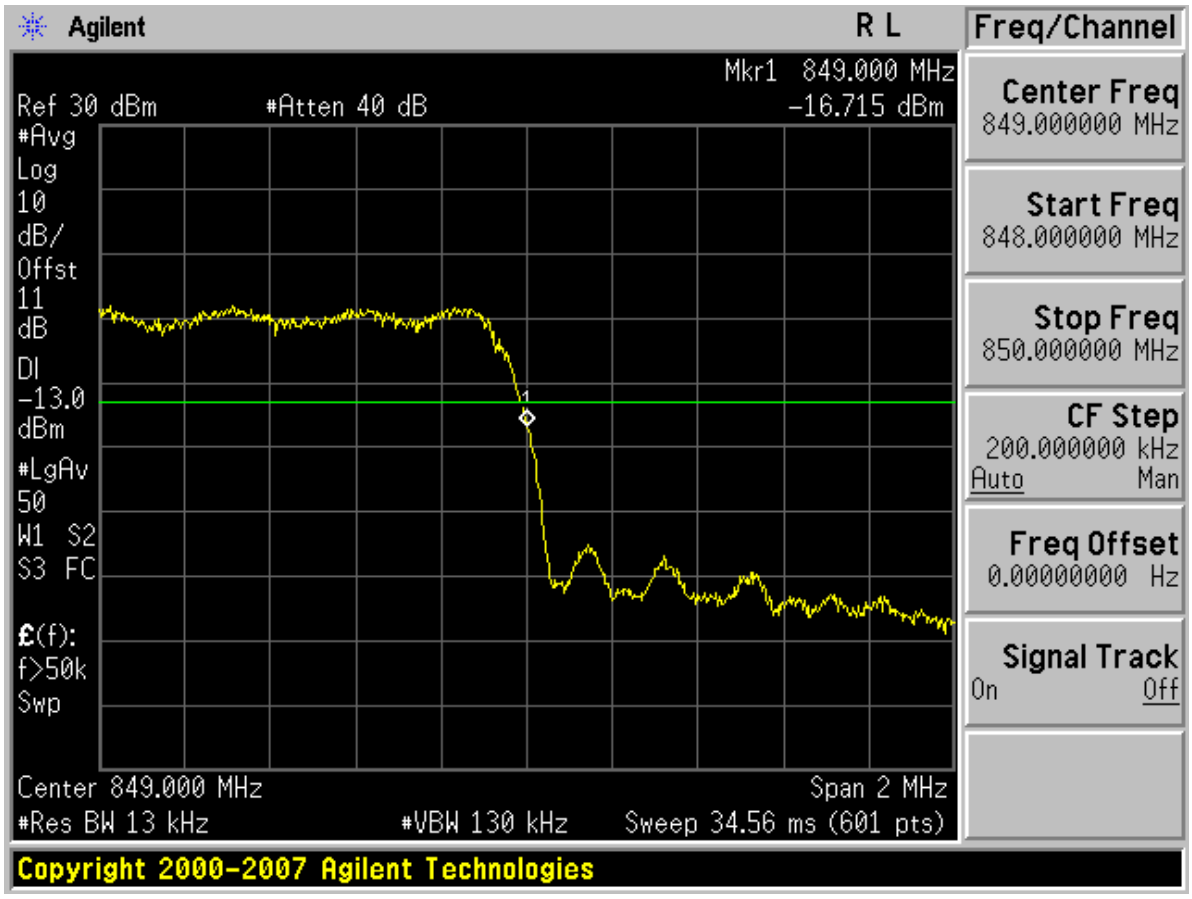
EVDO SUBTYPE 0

Left Edge

Channel 1013



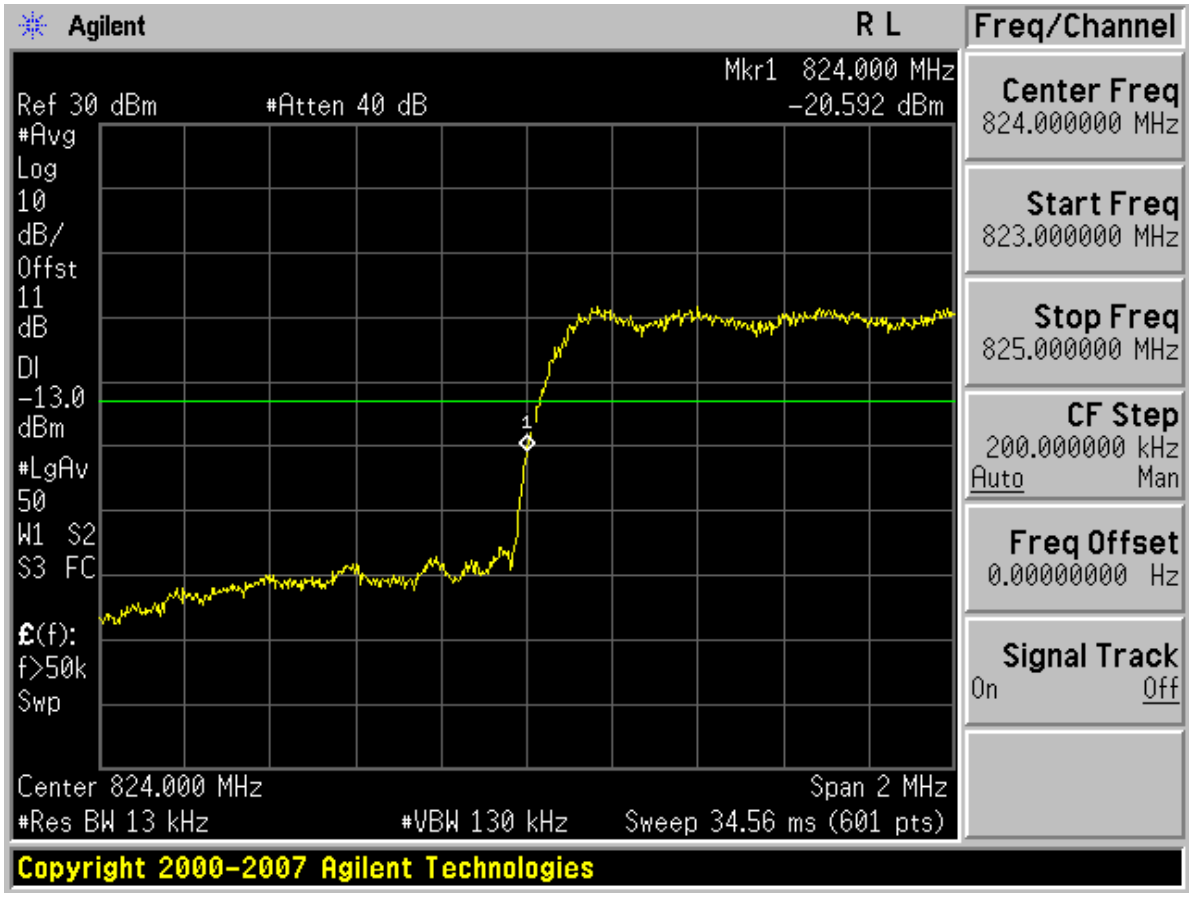
Right Edge
Channel 777



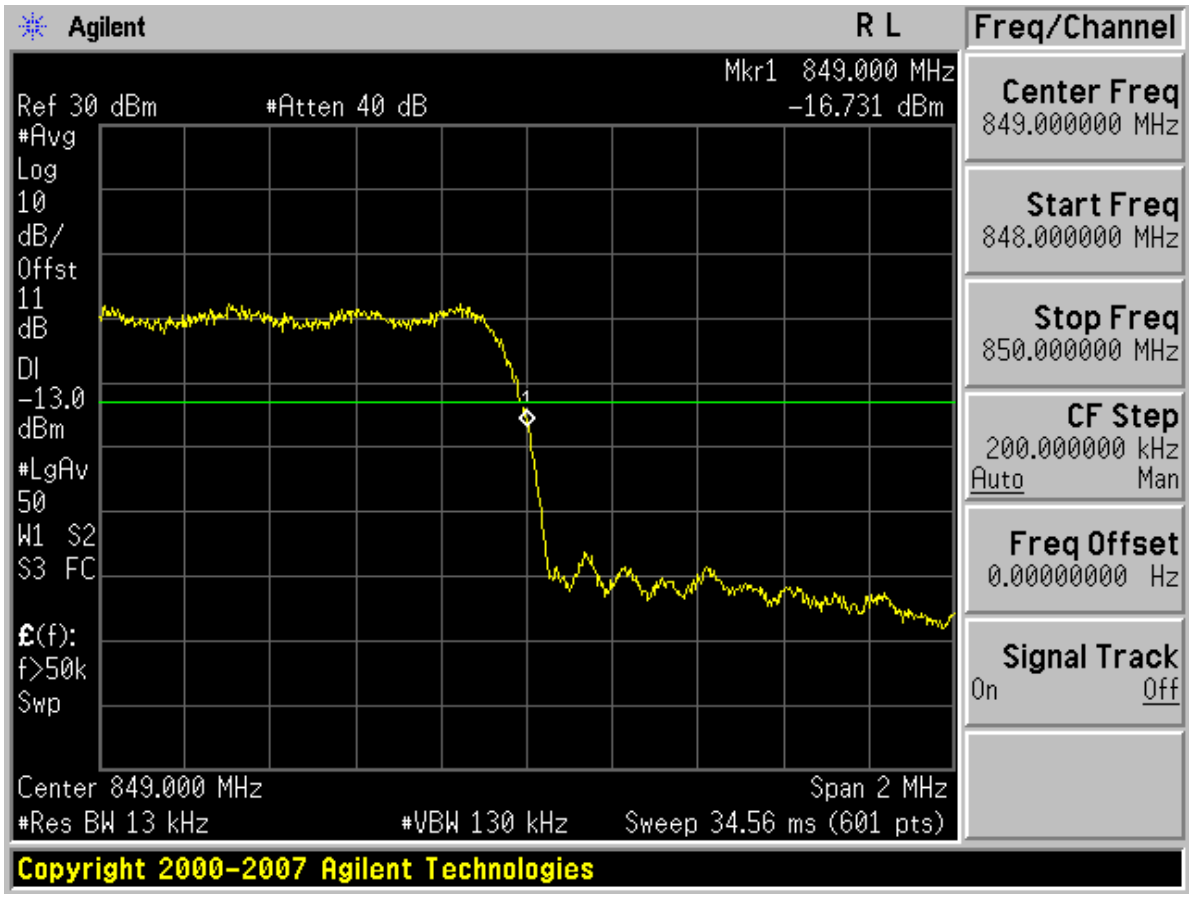
EVDO SUBTYPE 2

Left Edge

Channel 1013



Right Edge
Channel 777



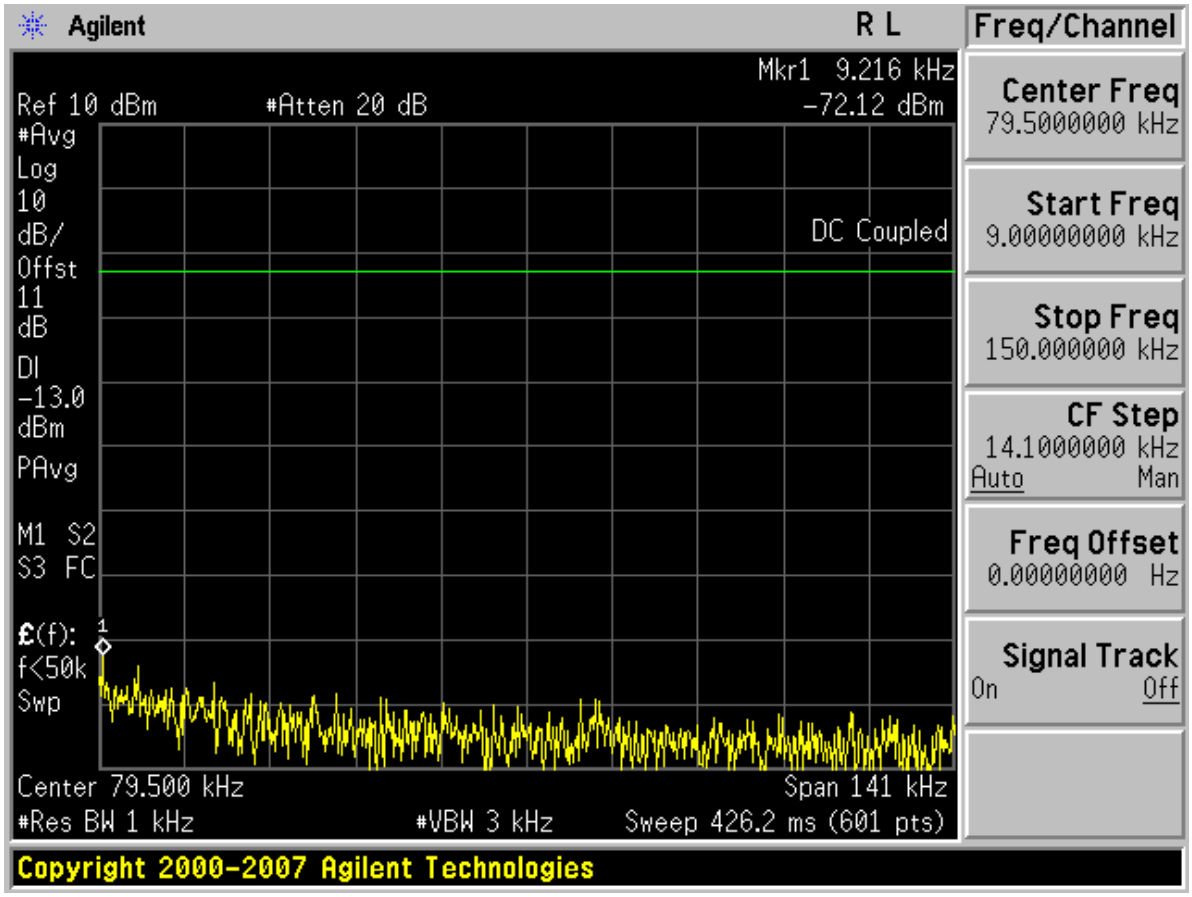
Appendix D

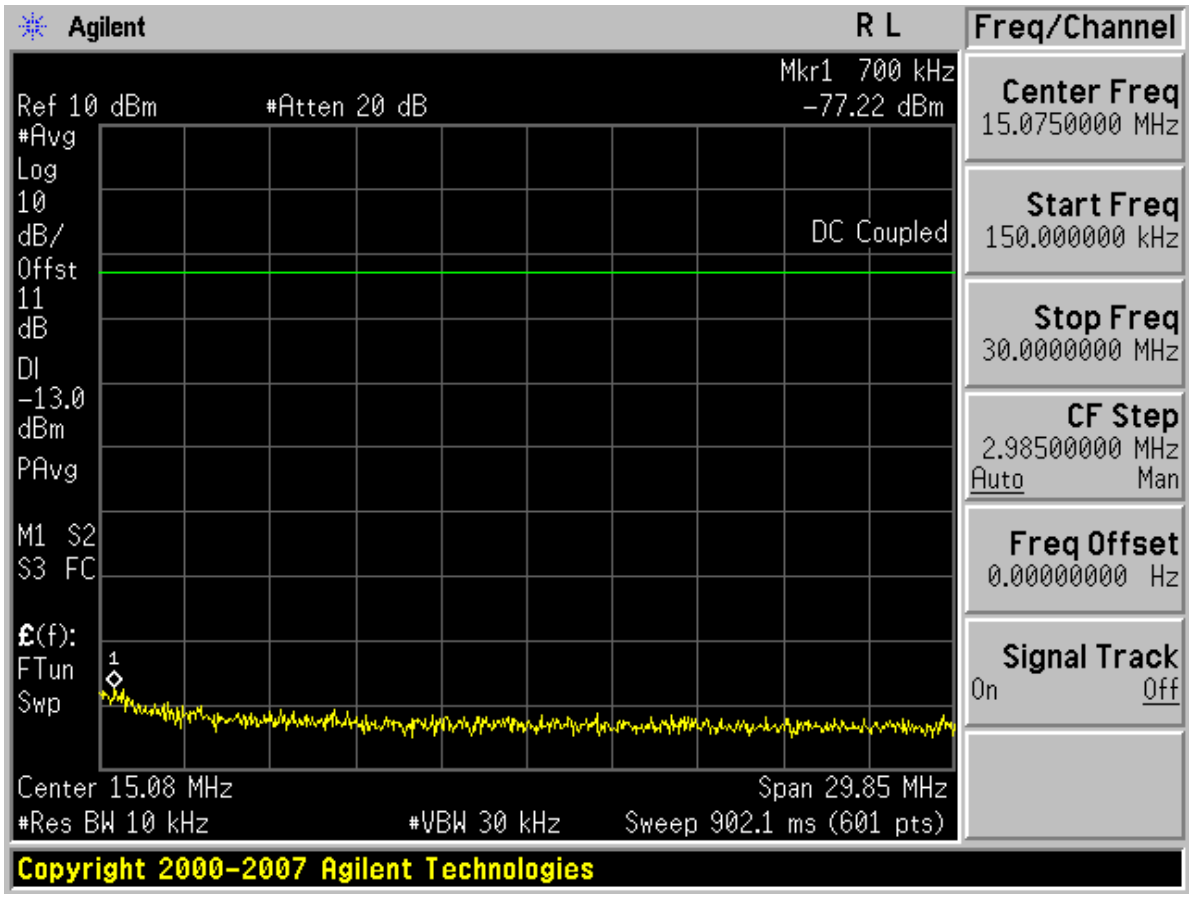
Spurious Emission at Antenna Terminal

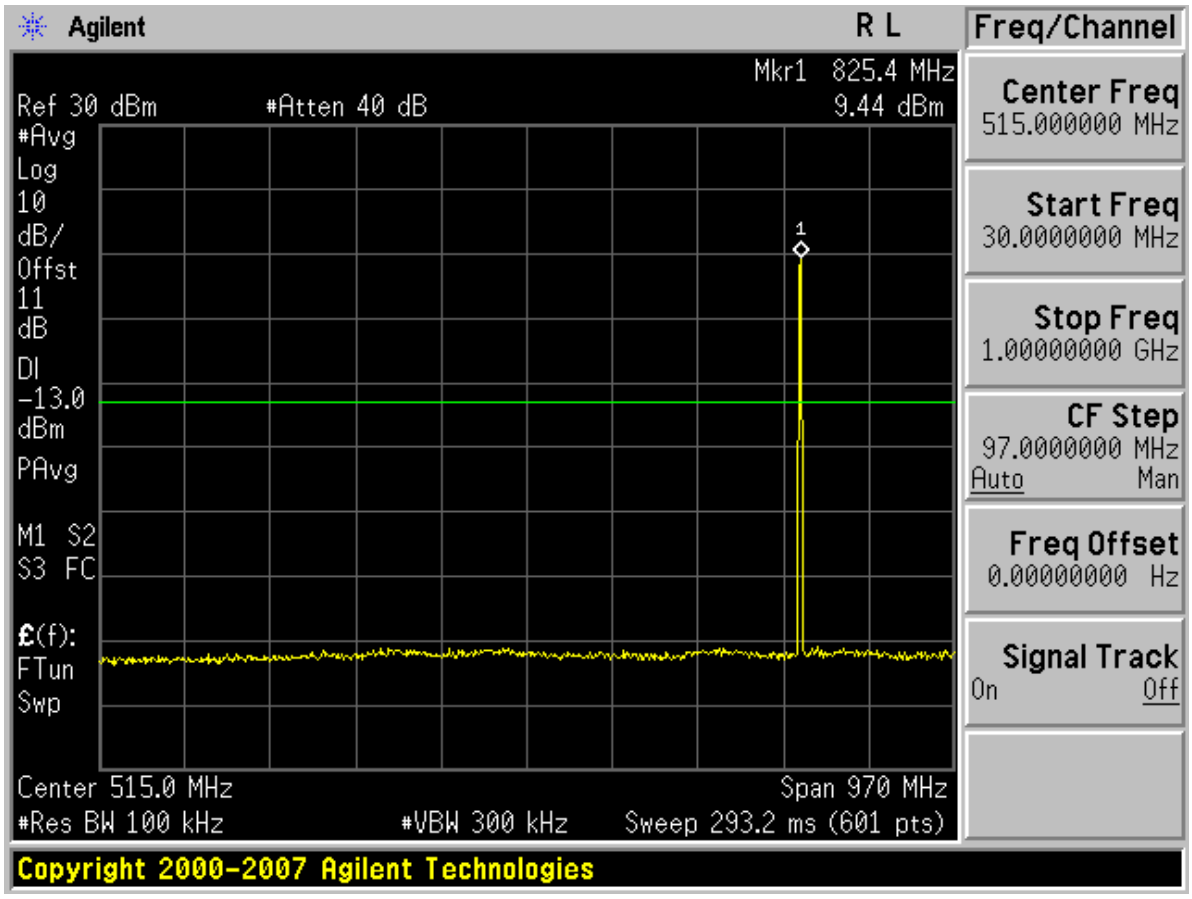
According to FCC Part 2.1051 & 22.917

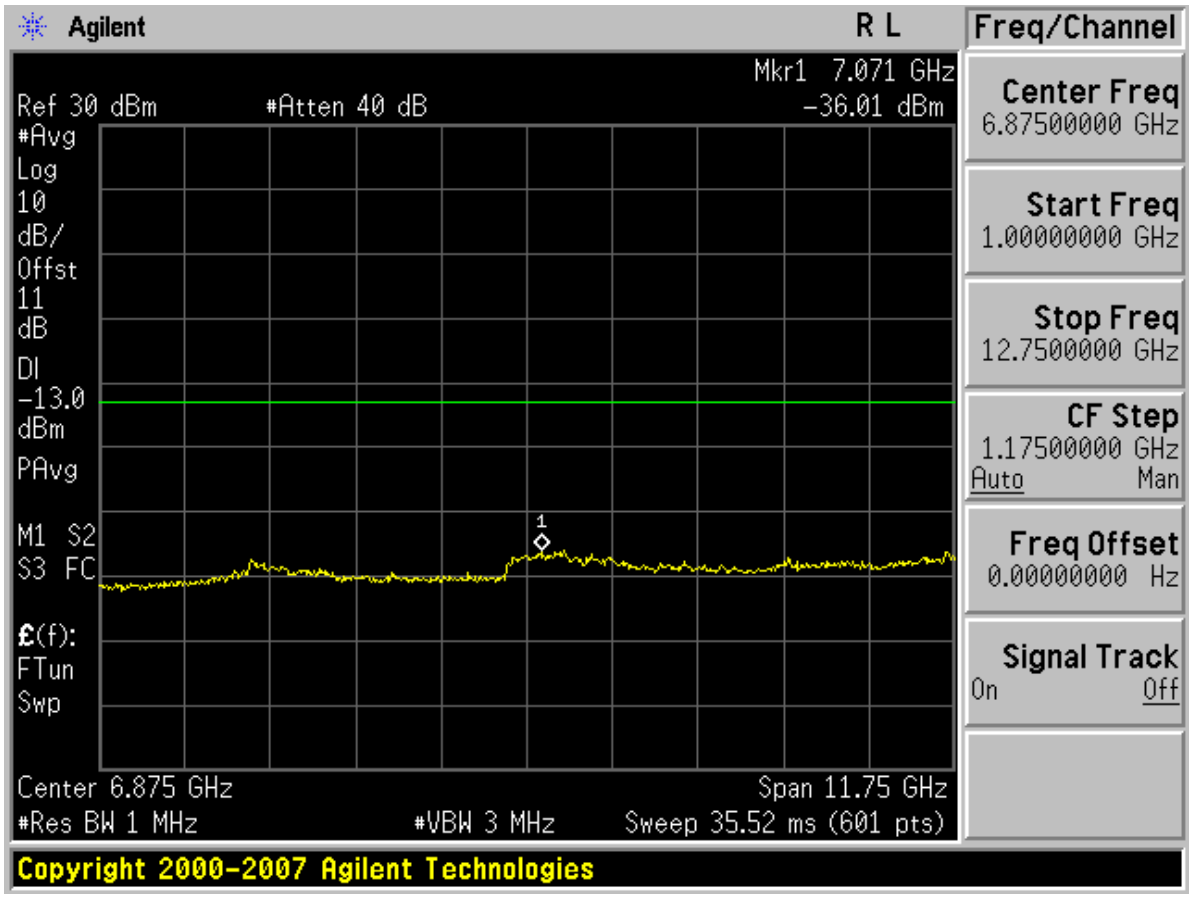
1.1 EVDO SUBTYPE 0

Channel 1013

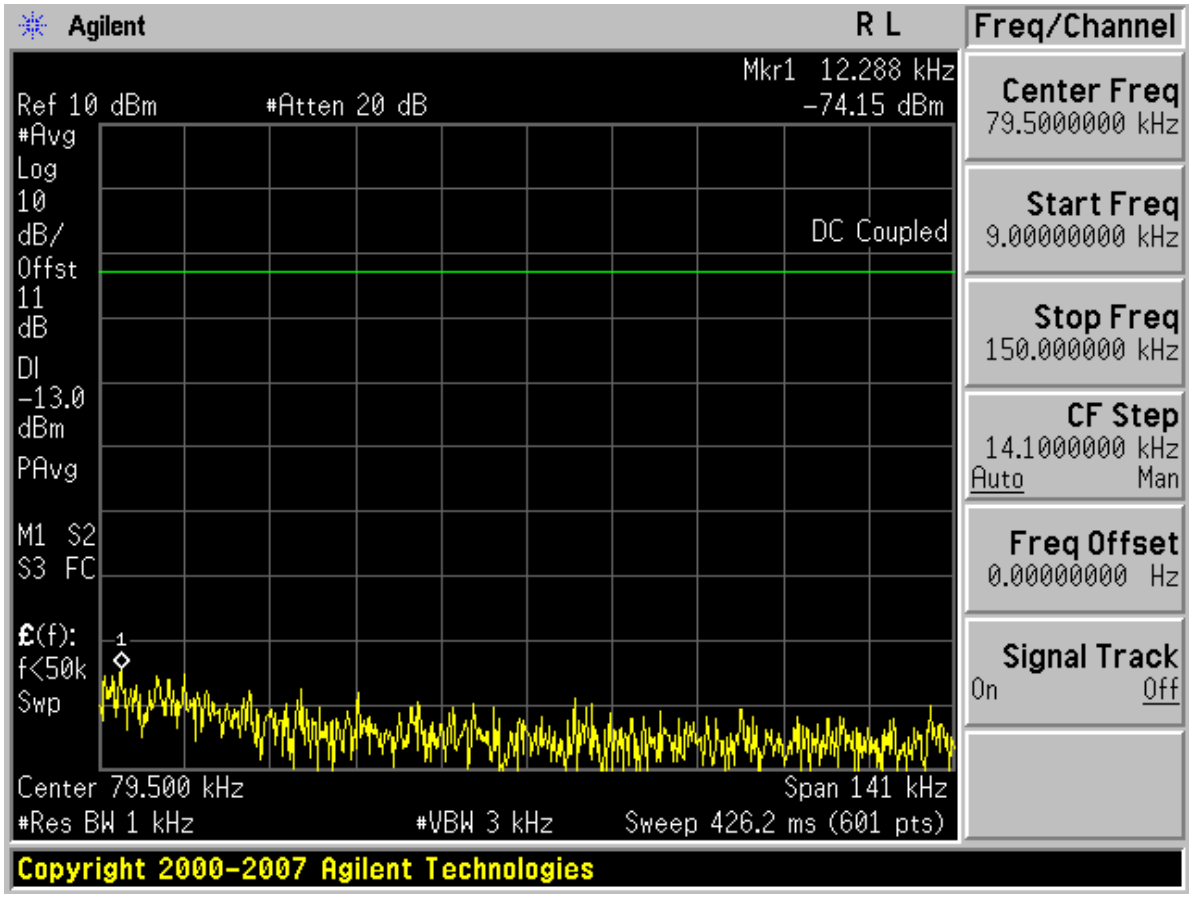


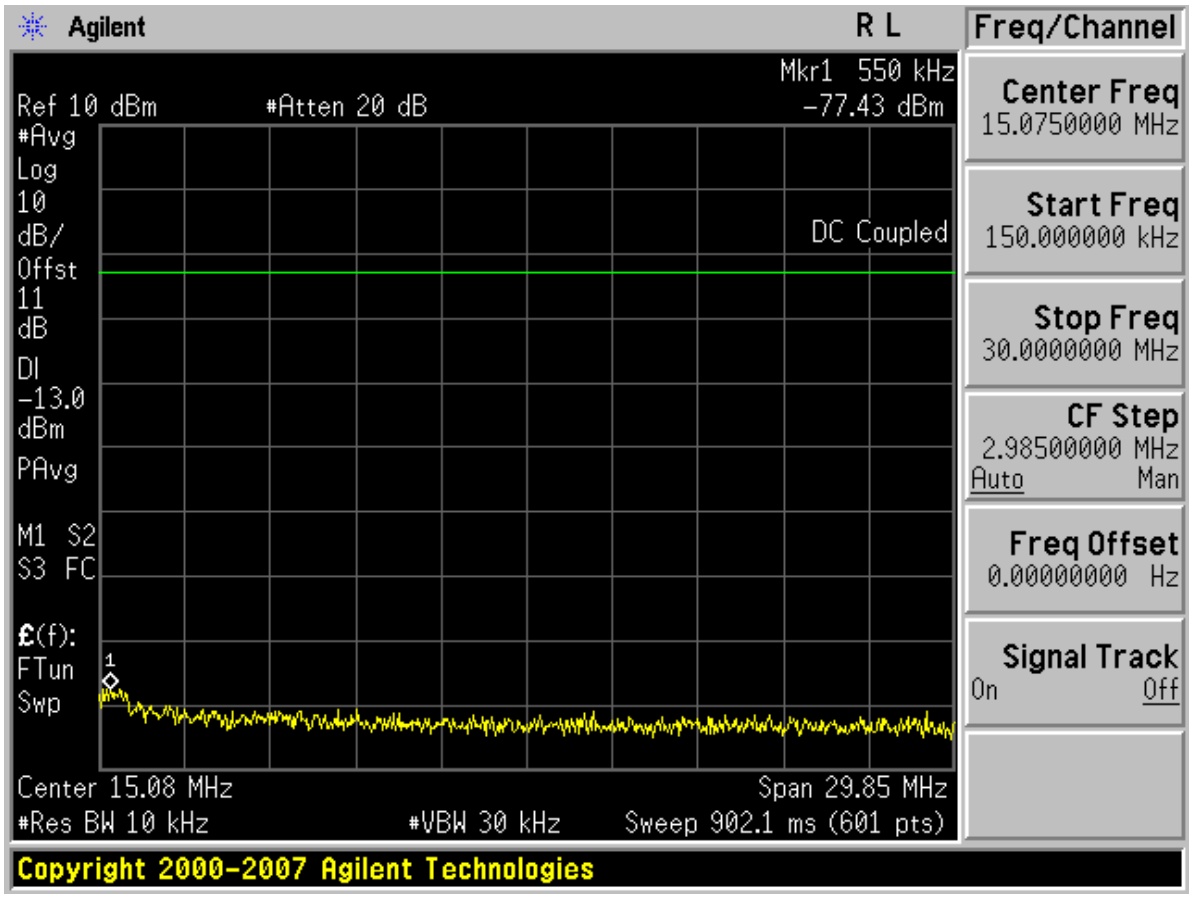

Agilent
R L
Freq/Channel
Mkr1 700 kHz
-77.22 dBm
Ref 10 dBm
#Atten 20 dB
#Avg
Log
10
dB/
Offst
11
dB
Dl
-13.0
dBm
PAvg
DC Coupled
M1 S2
S3 FC
£(f):
FTun
Swp
Center Freq
15.0750000 MHz
Start Freq
150.000000 kHz
Stop Freq
30.0000000 MHz
CF Step
2.98500000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
Center 15.08 MHz
Span 29.85 MHz
#Res BW 10 kHz
#VBW 30 kHz
Sweep 902.1 ms (601 pts)
Copyright 2000-2007 Agilent Technologies

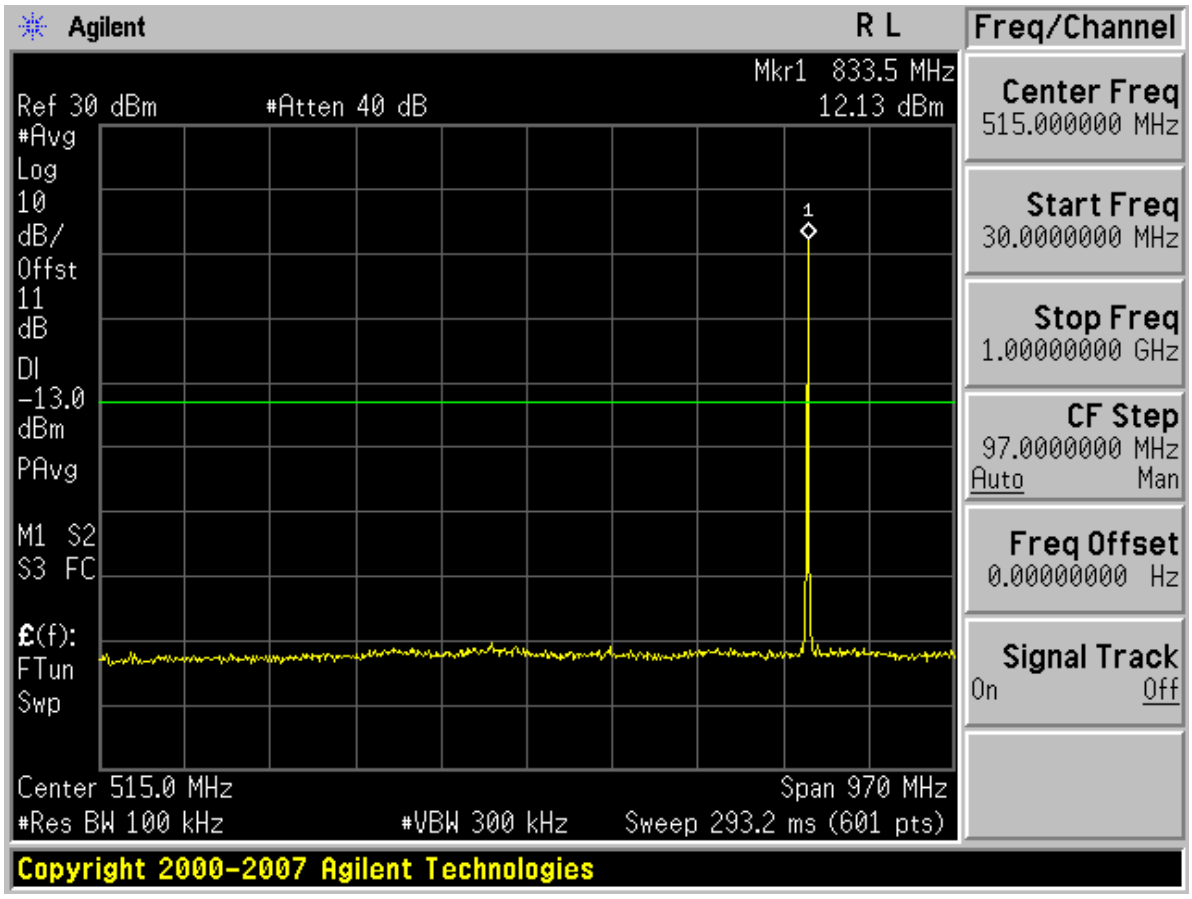

Agilent
R L
Freq/Channel
Mkr1 825.4 MHz
9.44 dBm
Ref 30 dBm
#Atten 40 dB
#Avg
Log
10
dB/
Offst
11
dB
Dl
-13.0
dBm
PAvg
M1 S2
S3 FC
£(f):
FTun
Swp
Center Freq
515.000000 MHz
Start Freq
30.0000000 MHz
Stop Freq
1.00000000 GHz
CF Step
97.0000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
Center 515.0 MHz
Span 970 MHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 293.2 ms (601 pts)
Copyright 2000-2007 Agilent Technologies

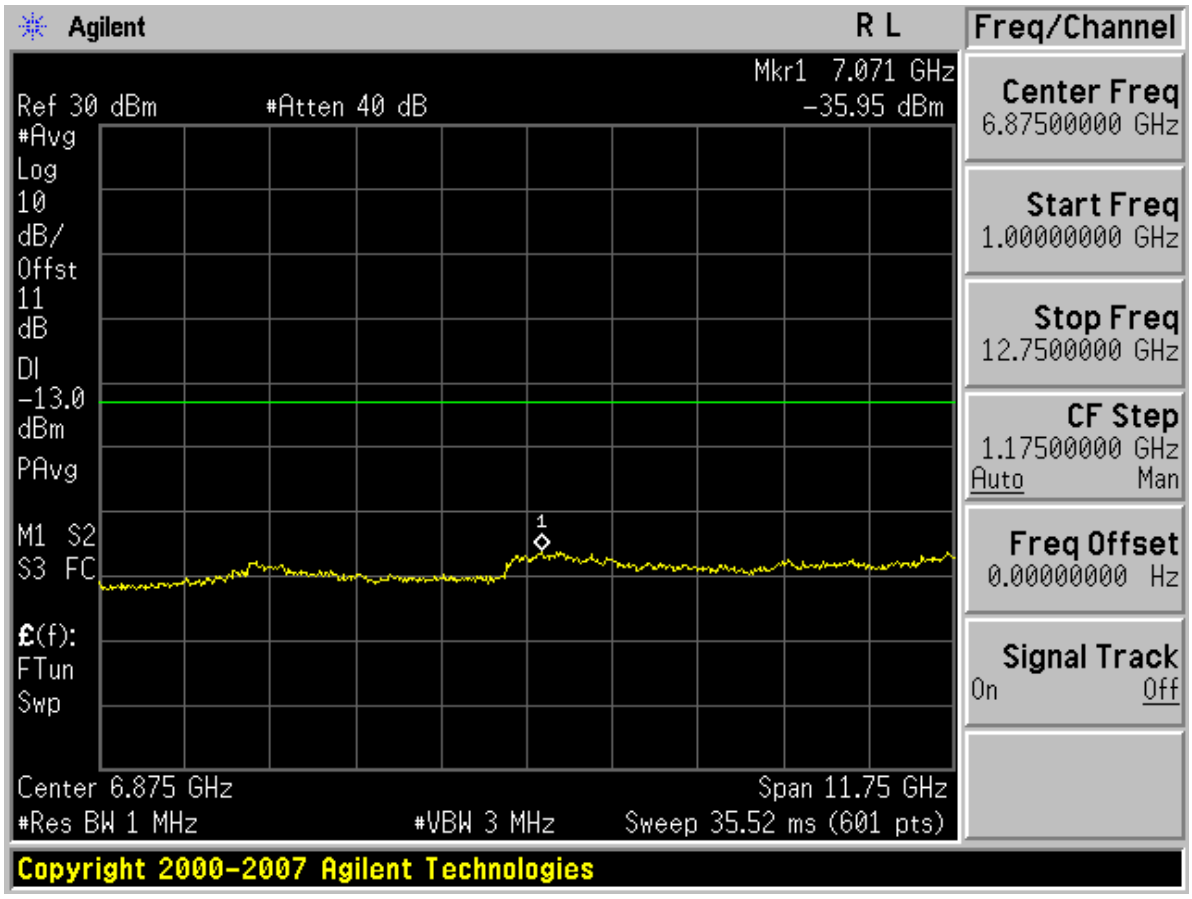

Agilent
R L
Freq/Channel
Mkr1 7.071 GHz
Ref 30 dBm
#Atten 40 dB
-36.01 dBm
#Avg
Log
10
dB/
Offst
11
dB
Dl
-13.0
dBm
PAvg
M1 S2
S3 FC
£(f):
FTun
Swp
Center Freq
6.87500000 GHz
Start Freq
1.00000000 GHz
Stop Freq
12.7500000 GHz
CF Step
1.17500000 GHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
Center 6.875 GHz
Span 11.75 GHz
#Res BW 1 MHz
#VBW 3 MHz
Sweep 35.52 ms (601 pts)
Copyright 2000-2007 Agilent Technologies

Channel 283

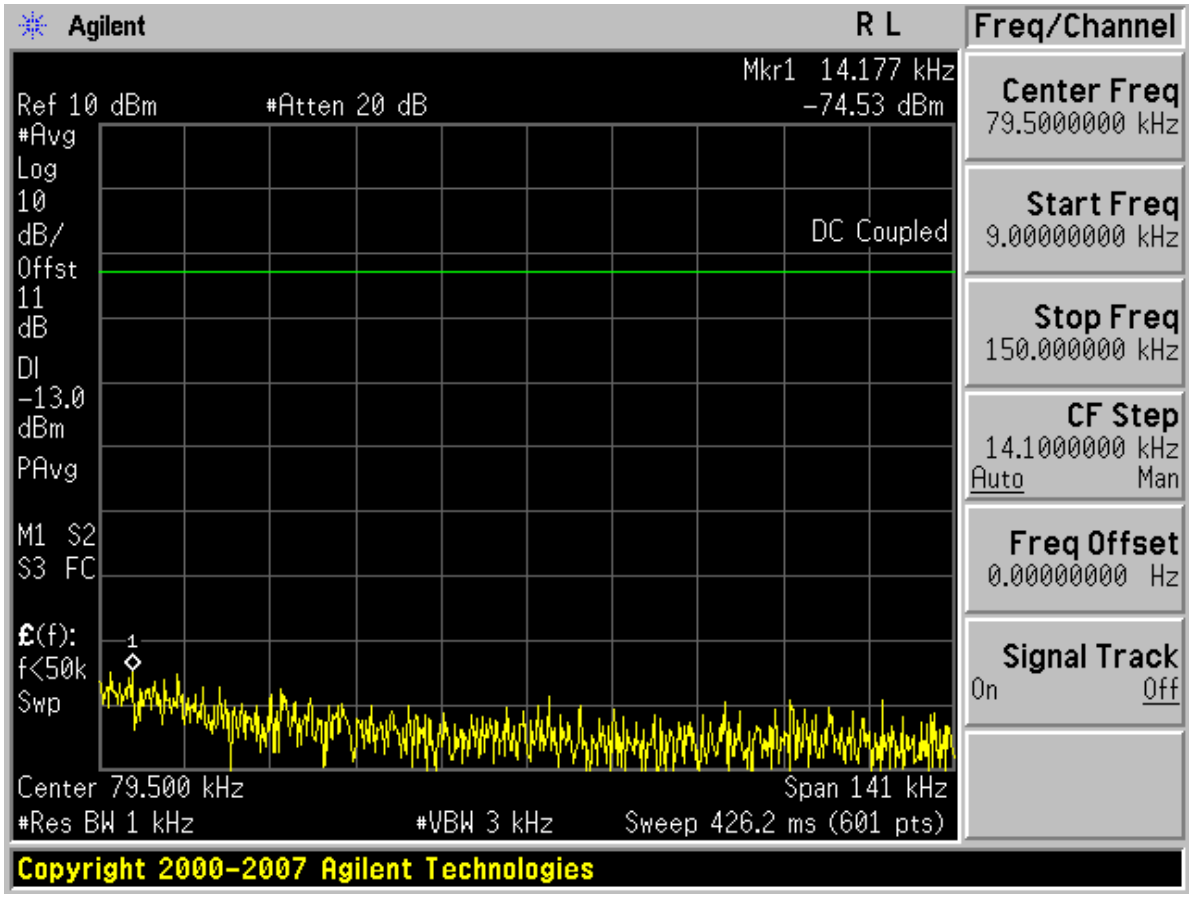

Agilent
R L
Freq/Channel
Mkr1 12.288 kHz
Ref 10 dBm
#Atten 20 dB
-74.15 dBm
#Avg
Log
10
dB/
Offst
11
dB
Dl
-13.0
dBm
PAvg
DC Coupled
M1 S2
S3 FC
£(f):
f<50k
Swp
Center Freq
79.5000000 kHz
Start Freq
9.00000000 kHz
Stop Freq
150.000000 kHz
CF Step
14.1000000 kHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
Center 79.500 kHz
Span 141 kHz
#Res BW 1 kHz
#VBW 3 kHz
Sweep 426.2 ms (601 pts)
Copyright 2000-2007 Agilent Technologies

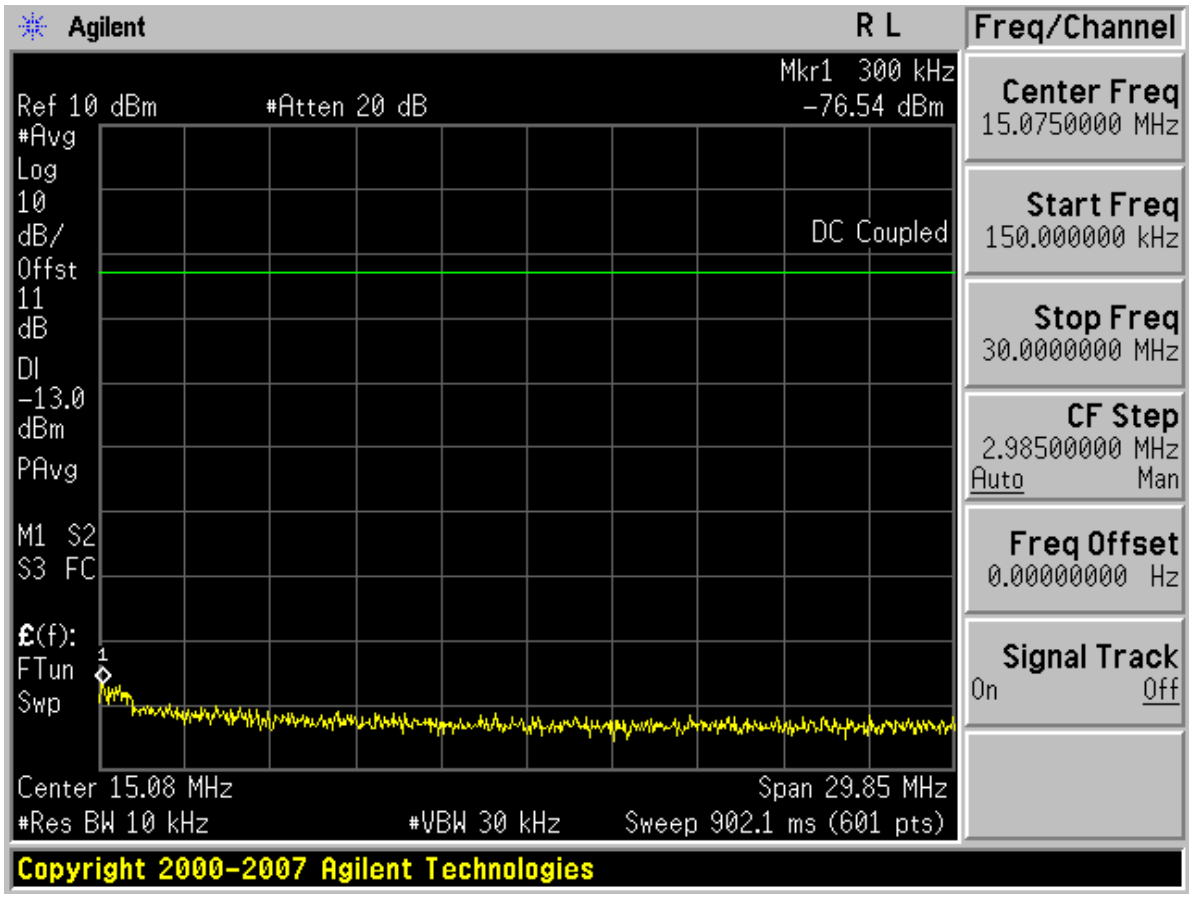

Agilent
R L
Freq/Channel
Mkr1 550 kHz
Ref 10 dBm
#Atten 20 dB
-77.43 dBm
#Avg
Log
10
dB/
Offst
11
dB
Dl
-13.0
dBm
PAvg
DC Coupled
M1 S2
S3 FC
£(f):
FTun
Swp
Center Freq
15.0750000 MHz
Start Freq
150.000000 kHz
Stop Freq
30.0000000 MHz
CF Step
2.98500000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
Center 15.08 MHz
Span 29.85 MHz
#Res BW 10 kHz
#VBW 30 kHz
Sweep 902.1 ms (601 pts)
Copyright 2000-2007 Agilent Technologies

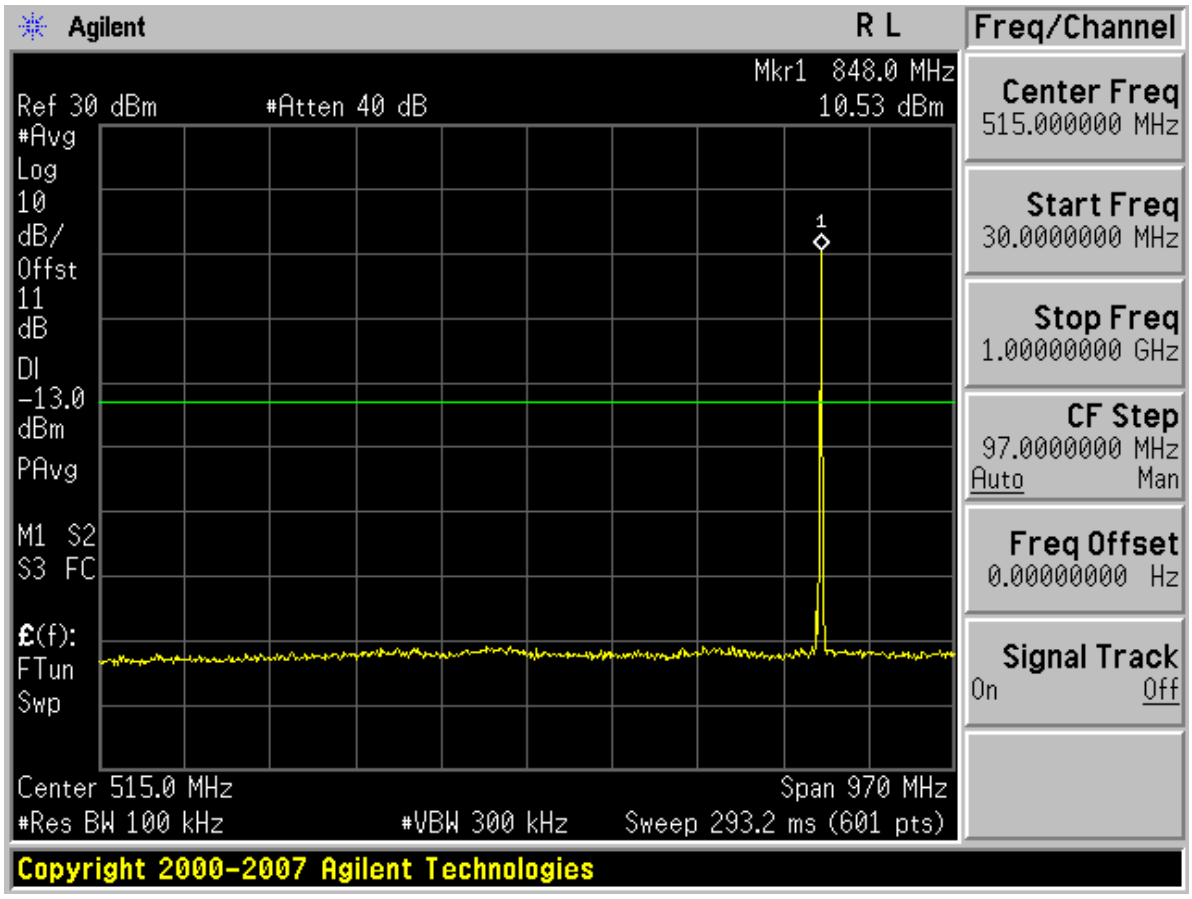

Agilent
R L
Freq/Channel
Mkr1 833.5 MHz
Ref 30 dBm
#Atten 40 dB
12.13 dBm
#Avg
Log
10
dB/
Offst
11
dB
Dl
-13.0
dBm
PAvg
M1 S2
S3 FC
£(f):
FTun
Swp
Center Freq
515.000000 MHz
Start Freq
30.0000000 MHz
Stop Freq
1.00000000 GHz
CF Step
97.0000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
Center 515.0 MHz
Span 970 MHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 293.2 ms (601 pts)
Copyright 2000-2007 Agilent Technologies

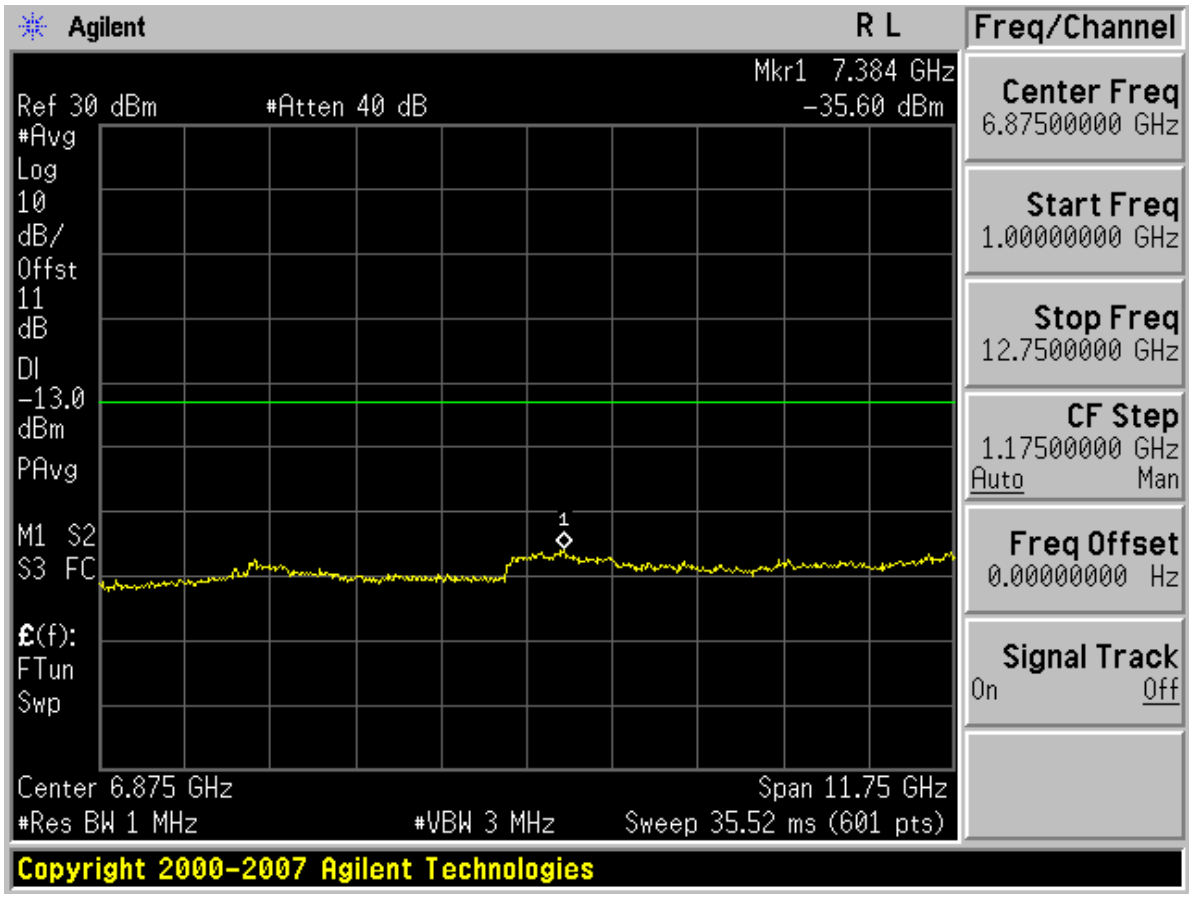

Agilent
R L
Freq/Channel
Mkr1 7.071 GHz
Ref 30 dBm
#Atten 40 dB
-35.95 dBm
#Avg
Log
10
dB/
Offst
11
dB
Dl
-13.0
dBm
PAvg
M1 S2
S3 FC
£(f):
FTun
Swp
Center Freq
6.87500000 GHz
Start Freq
1.00000000 GHz
Stop Freq
12.7500000 GHz
CF Step
1.17500000 GHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
Center 6.875 GHz
Span 11.75 GHz
#Res BW 1 MHz
#VBW 3 MHz
Sweep 35.52 ms (601 pts)
Copyright 2000-2007 Agilent Technologies

Channel 777

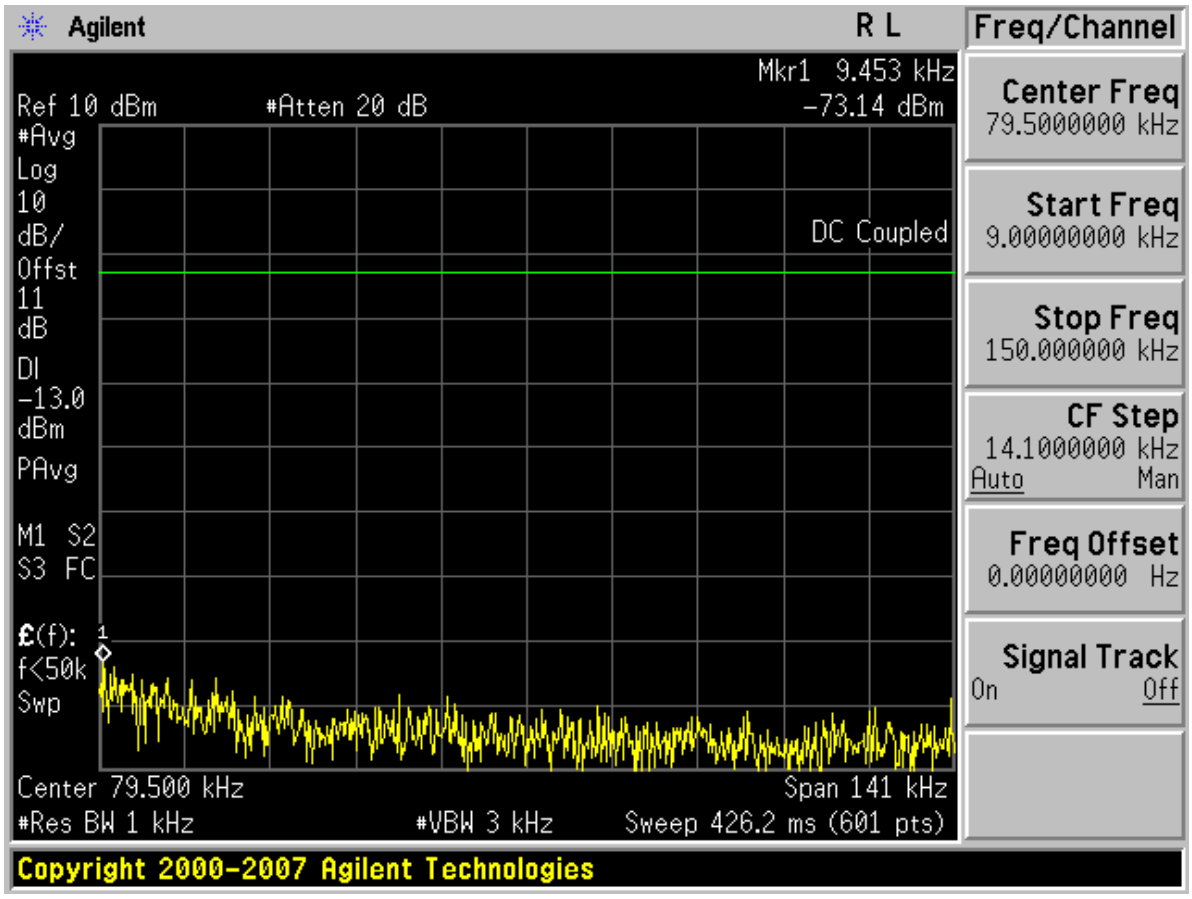

Agilent
R L
Freq/Channel
Mkr1 14.177 kHz
Ref 10 dBm
#Atten 20 dB
-74.53 dBm
#Avg
Log
10
dB/
Offst
11
dB
Dl
-13.0
dBm
PAvg
DC Coupled
M1 S2
S3 FC
£(f):
f<50k
Swp
1
Center Freq
79.5000000 kHz
Start Freq
9.00000000 kHz
Stop Freq
150.000000 kHz
CF Step
14.1000000 kHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
Center 79.500 kHz
Span 141 kHz
#Res BW 1 kHz
#VBW 3 kHz
Sweep 426.2 ms (601 pts)
Copyright 2000-2007 Agilent Technologies

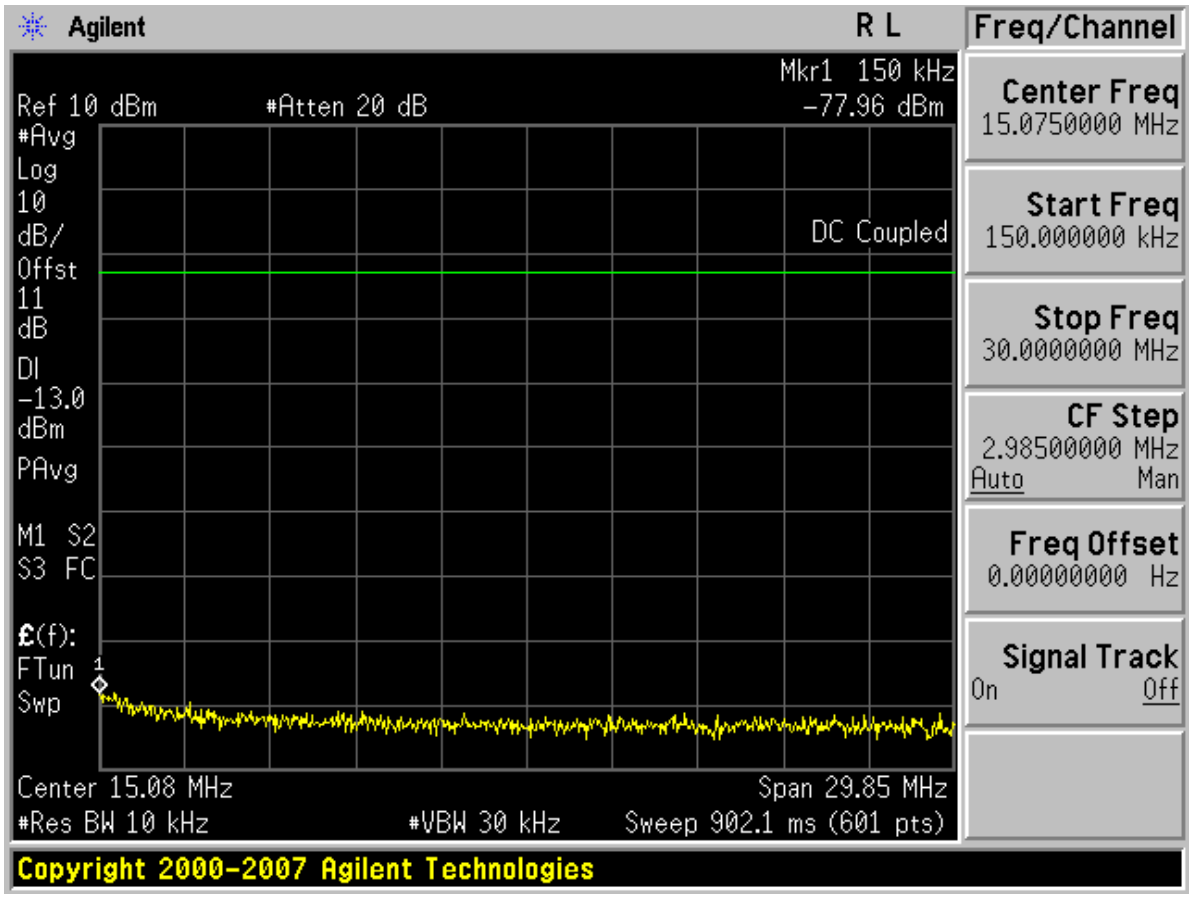

Agilent
R L
Freq/Channel
Mkr1 300 kHz
Ref 10 dBm
#Atten 20 dB
-76.54 dBm
#Avg
Log
10
dB/
Offst
11
dB
DC Coupled
Dl
-13.0
dBm
PAvg
M1 S2
S3 FC
£(f):
FTun
Swp
Center Freq
15.0750000 MHz
Start Freq
150.000000 kHz
Stop Freq
30.0000000 MHz
CF Step
2.98500000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
Center 15.08 MHz
Span 29.85 MHz
#Res BW 10 kHz
#VBW 30 kHz
Sweep 902.1 ms (601 pts)
Copyright 2000-2007 Agilent Technologies

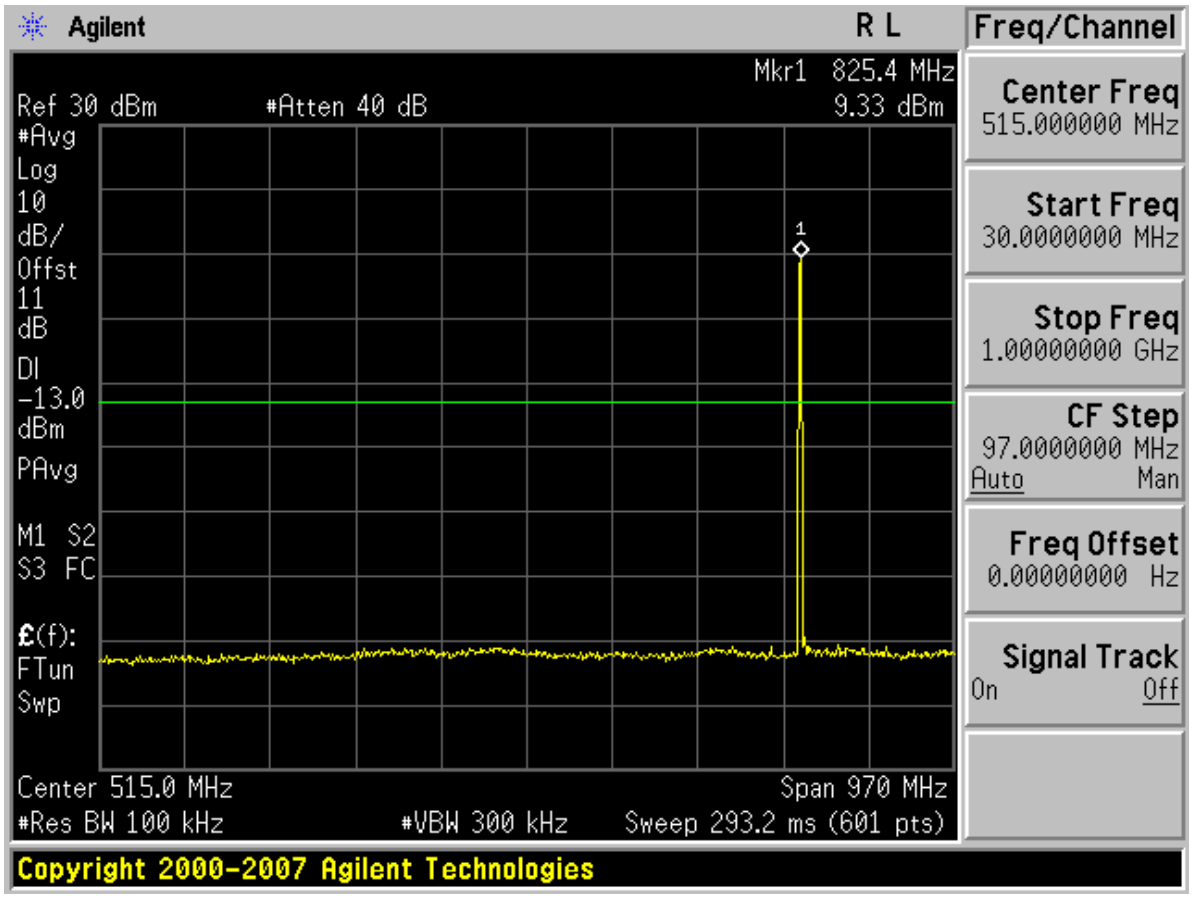

Agilent
R L
Freq/Channel
Mkr1 848.0 MHz
Ref 30 dBm
#Atten 40 dB
10.53 dBm
#Avg
Log
10
dB/
Offst
11
dB
Dl
-13.0
dBm
PAvg
M1 S2
S3 FC
£(f):
FTun
Swp
Center Freq
515.000000 MHz
Start Freq
30.0000000 MHz
Stop Freq
1.00000000 GHz
CF Step
97.0000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
Center 515.0 MHz
Span 970 MHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 293.2 ms (601 pts)
Copyright 2000-2007 Agilent Technologies

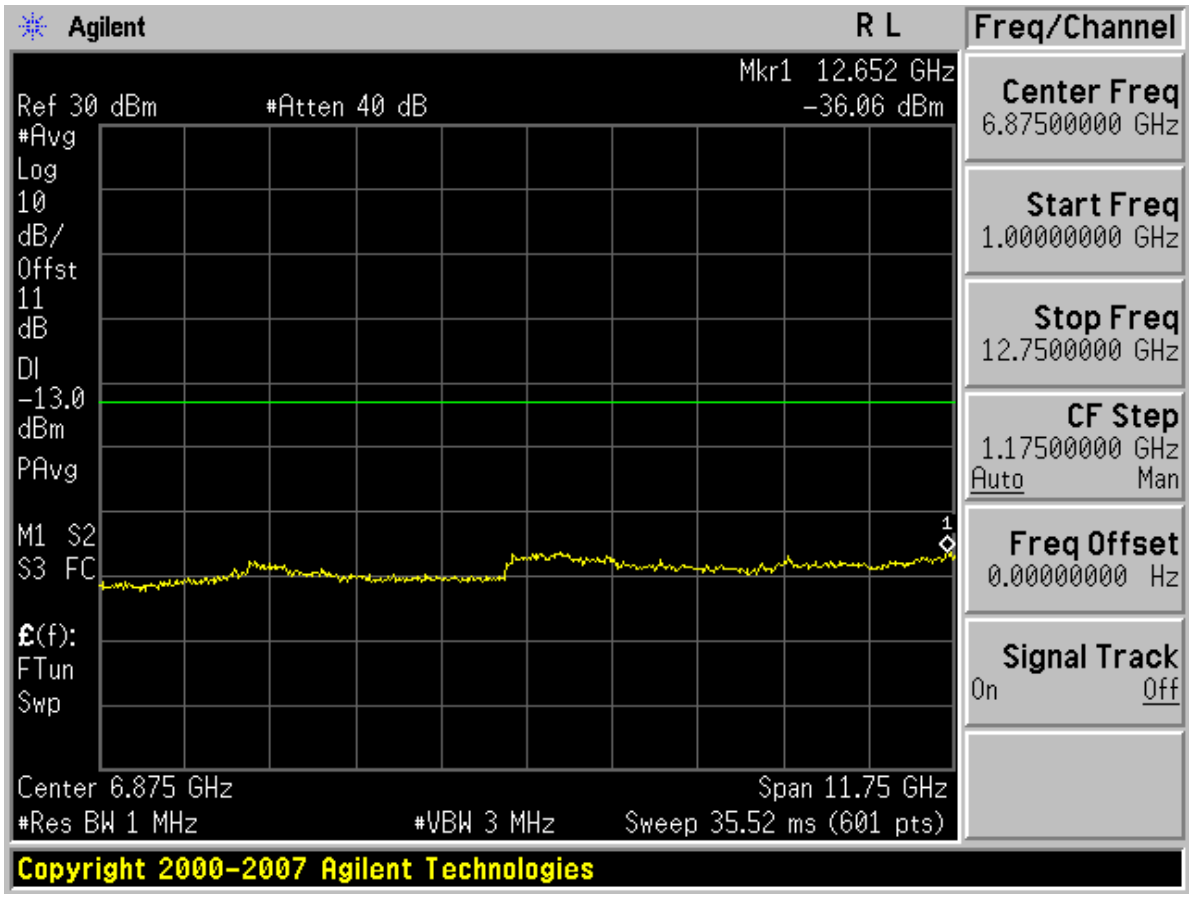

Agilent
R L
Freq/Channel
Mkr1 7.384 GHz
Ref 30 dBm
#Atten 40 dB
-35.60 dBm
#Avg
Log
10
dB/
Offst
11
dB
Dl
-13.0
dBm
PAvg
M1 S2
S3 FC
£(f):
FTun
Swp
Center Freq
6.87500000 GHz
Start Freq
1.00000000 GHz
Stop Freq
12.7500000 GHz
CF Step
1.17500000 GHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
Center 6.875 GHz
Span 11.75 GHz
#Res BW 1 MHz
#VBW 3 MHz
Sweep 35.52 ms (601 pts)
Copyright 2000-2007 Agilent Technologies

EVDO SUBTYPE 2
Channel 1013

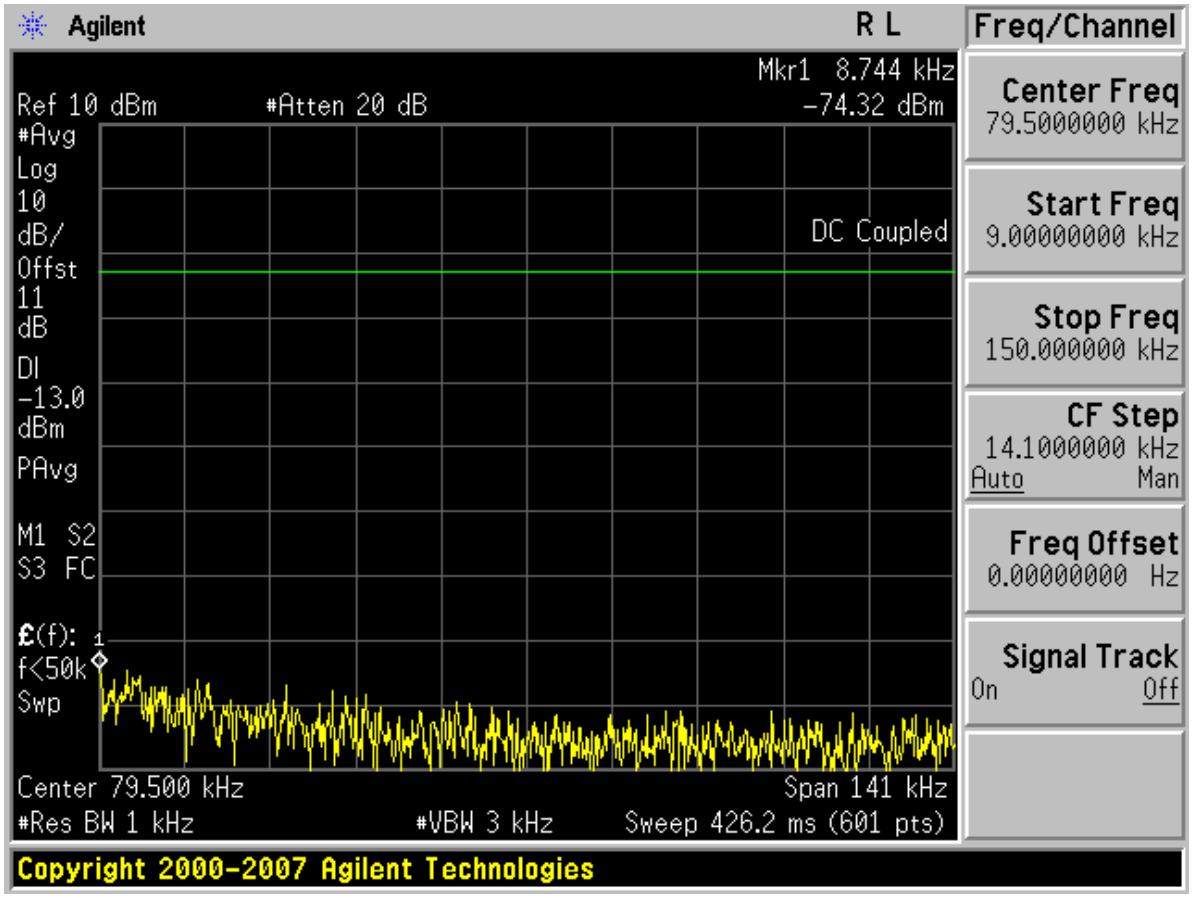


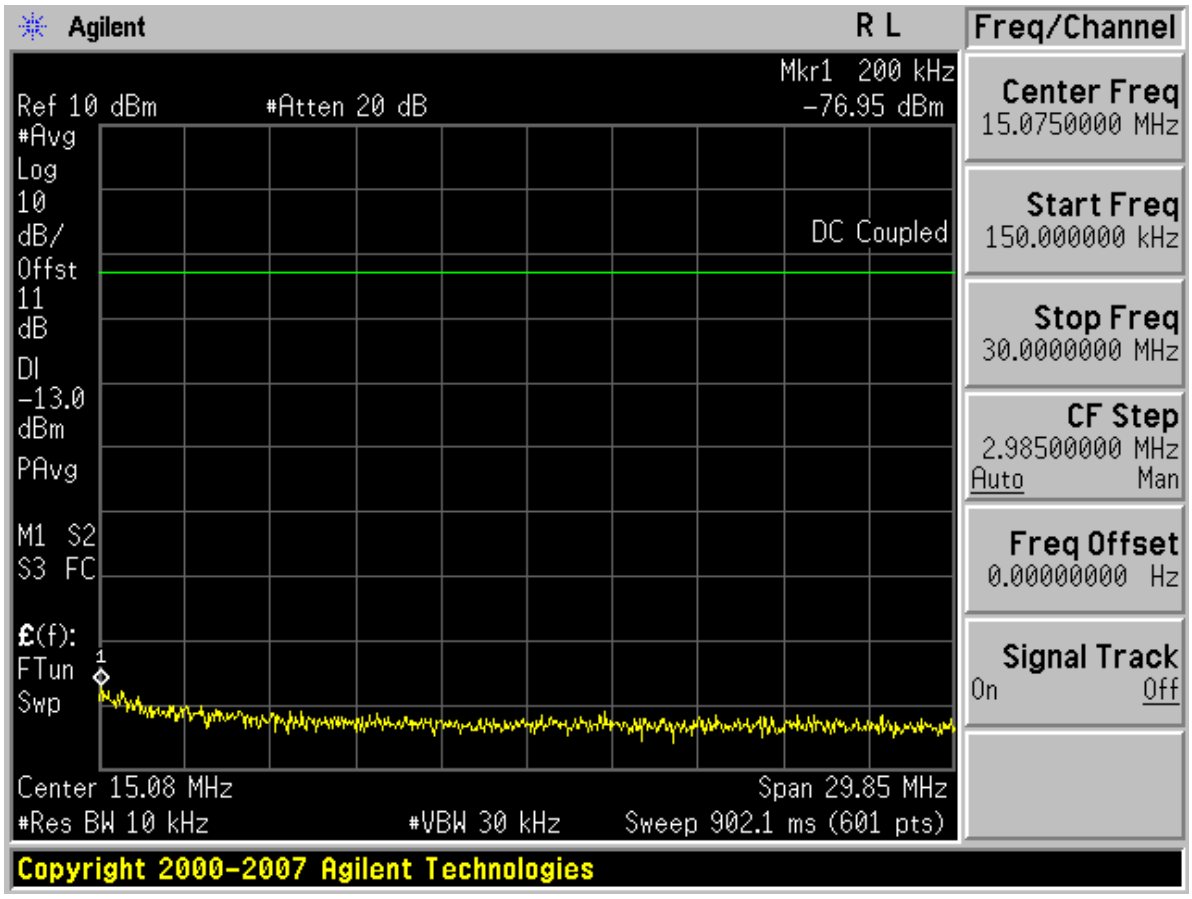

Agilent
R L
Freq/Channel
Mkr1 150 kHz
Ref 10 dBm
#Atten 20 dB
-77.96 dBm
#Avg
Log
10
dB/
Offst
11
dB
DC Coupled
Dl
-13.0
dBm
PAvg
M1 S2
S3 FC
£(f):
FTun
Swp
Center Freq
15.0750000 MHz
Start Freq
150.000000 kHz
Stop Freq
30.0000000 MHz
CF Step
2.98500000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
Center 15.08 MHz
Span 29.85 MHz
#Res BW 10 kHz
#VBW 30 kHz
Sweep 902.1 ms (601 pts)
Copyright 2000-2007 Agilent Technologies

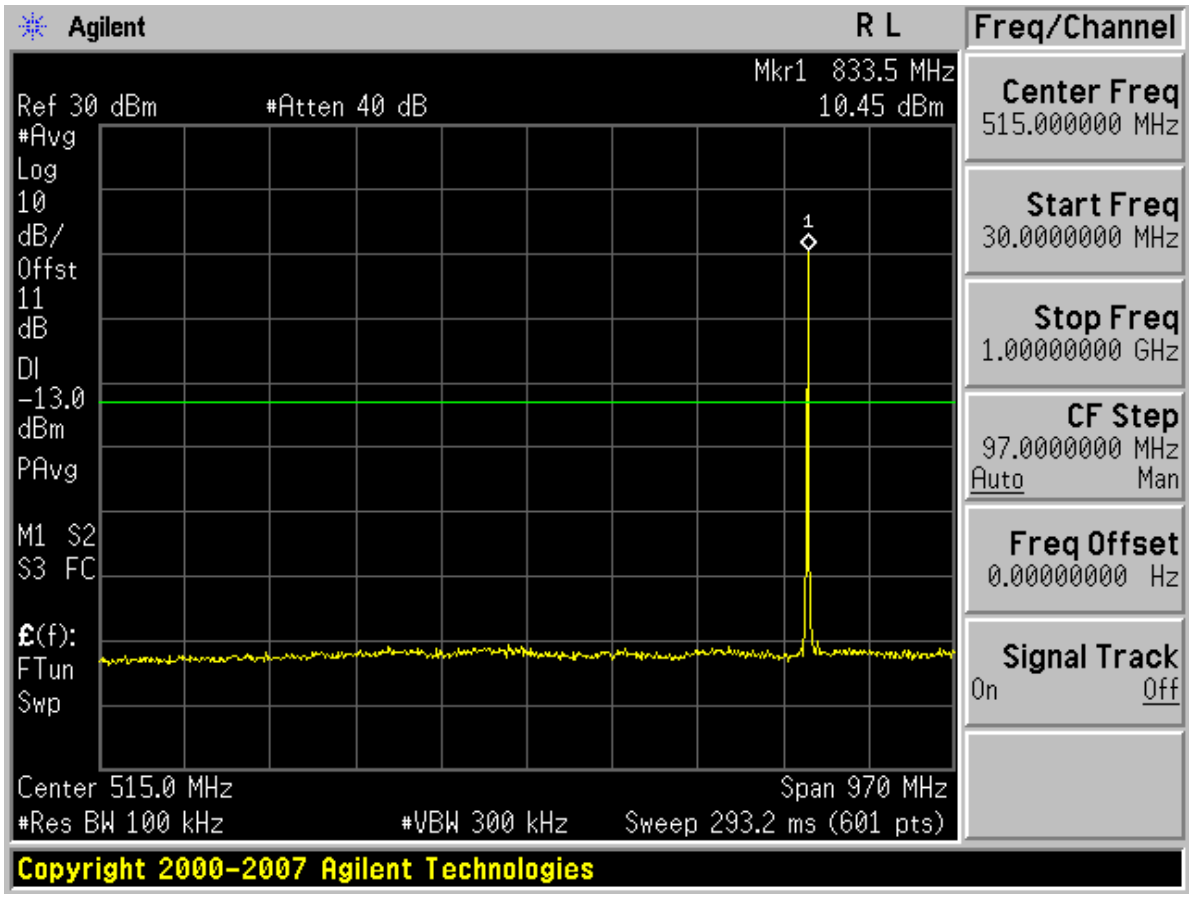

Agilent
R L
Freq/Channel
Mkr1 825.4 MHz
Ref 30 dBm
#Atten 40 dB
9.33 dBm
#Avg
Log
10
dB/
Offst
11
dB
Dl
-13.0
dBm
PAvg
M1 S2
S3 FC
£(f):
FTun
Swp
Center Freq
515.000000 MHz
Start Freq
30.0000000 MHz
Stop Freq
1.00000000 GHz
CF Step
97.0000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
Center 515.0 MHz
Span 970 MHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 293.2 ms (601 pts)
Copyright 2000-2007 Agilent Technologies


Agilent
R L
Freq/Channel
Mkr1 12.652 GHz
Ref 30 dBm
#Atten 40 dB
-36.06 dBm
#Avg
Log
10
dB/
Offst
11
dB
Dl
-13.0
dBm
PAvg
M1 S2
S3 FC
£(f):
FTun
Swp
Center Freq
6.87500000 GHz
Start Freq
1.00000000 GHz
Stop Freq
12.7500000 GHz
CF Step
1.17500000 GHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
Center 6.875 GHz
Span 11.75 GHz
#Res BW 1 MHz
#VBW 3 MHz
Sweep 35.52 ms (601 pts)
Copyright 2000-2007 Agilent Technologies

Channel 283


Agilent
R L
Freq/Channel
Mkr1 8.744 kHz
Ref 10 dBm
#Atten 20 dB
-74.32 dBm
#Avg
Log
10
dB/
Offst
11
dB
Dl
-13.0
dBm
PAvg
DC Coupled
M1 S2
S3 FC
£(f): 1
f<50k
Swp
Center 79.500 kHz
Span 141 kHz
#Res BW 1 kHz
#VBW 3 kHz
Sweep 426.2 ms (601 pts)
Center Freq
79.5000000 kHz
Start Freq
9.00000000 kHz
Stop Freq
150.000000 kHz
CF Step
14.1000000 kHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
Copyright 2000-2007 Agilent Technologies


Agilent
R L
Freq/Channel
Mkr1 200 kHz
Ref 10 dBm
#Atten 20 dB
-76.95 dBm
#Avg
Log
10
dB/
Offst
11
dB
DC Coupled
Dl
-13.0
dBm
PAvg
M1 S2
S3 FC
£(f):
FTun
Swp
Center Freq
15.0750000 MHz
Start Freq
150.000000 kHz
Stop Freq
30.0000000 MHz
CF Step
2.98500000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
Center 15.08 MHz
Span 29.85 MHz
#Res BW 10 kHz
#VBW 30 kHz
Sweep 902.1 ms (601 pts)
Copyright 2000-2007 Agilent Technologies


Agilent
R L
Freq/Channel
Mkr1 833.5 MHz
Ref 30 dBm
#Atten 40 dB
10.45 dBm
#Avg
Log
10
dB/
Offst
11
dB
Dl
-13.0
dBm
PAvg
M1 S2
S3 FC
£(f):
FTun
Swp
Center Freq
515.000000 MHz
Start Freq
30.0000000 MHz
Stop Freq
1.00000000 GHz
CF Step
97.0000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
Center 515.0 MHz
Span 970 MHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 293.2 ms (601 pts)
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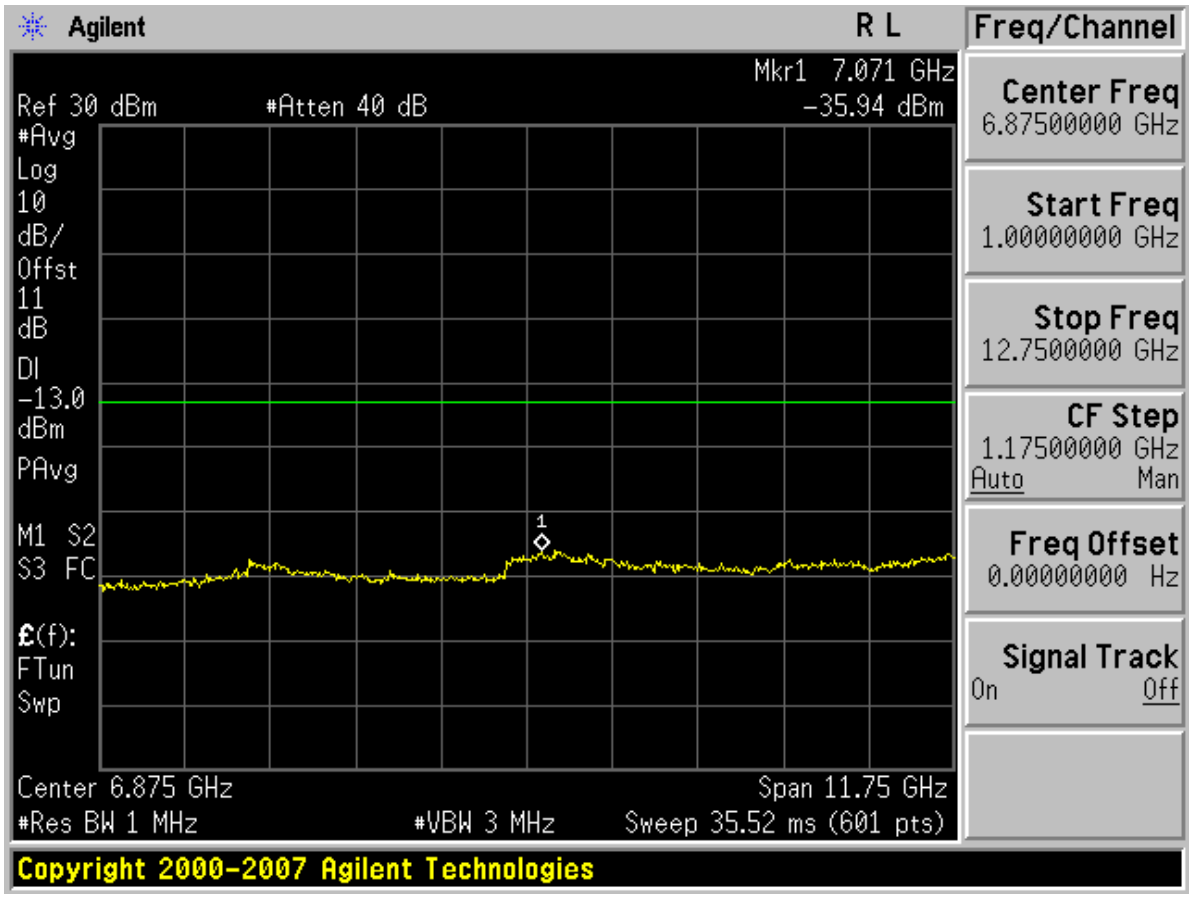
Agilent
R L
Freq/Channel
Mkr1 7.071 GHz
Ref 30 dBm
#Atten 40 dB
-35.94 dBm
#Avg
Log
10
dB/
Offst
11
dB
Dl
-13.0
dBm
PAvg
M1 S2
S3 FC
£(f):
FTun
Swp
Center Freq
6.87500000 GHz
Start Freq
1.00000000 GHz
Stop Freq
12.7500000 GHz
CF Step
1.17500000 GHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
Center 6.875 GHz
Span 11.75 GHz
#Res BW 1 MHz
#VBW 3 MHz
Sweep 35.52 ms (601 pts)
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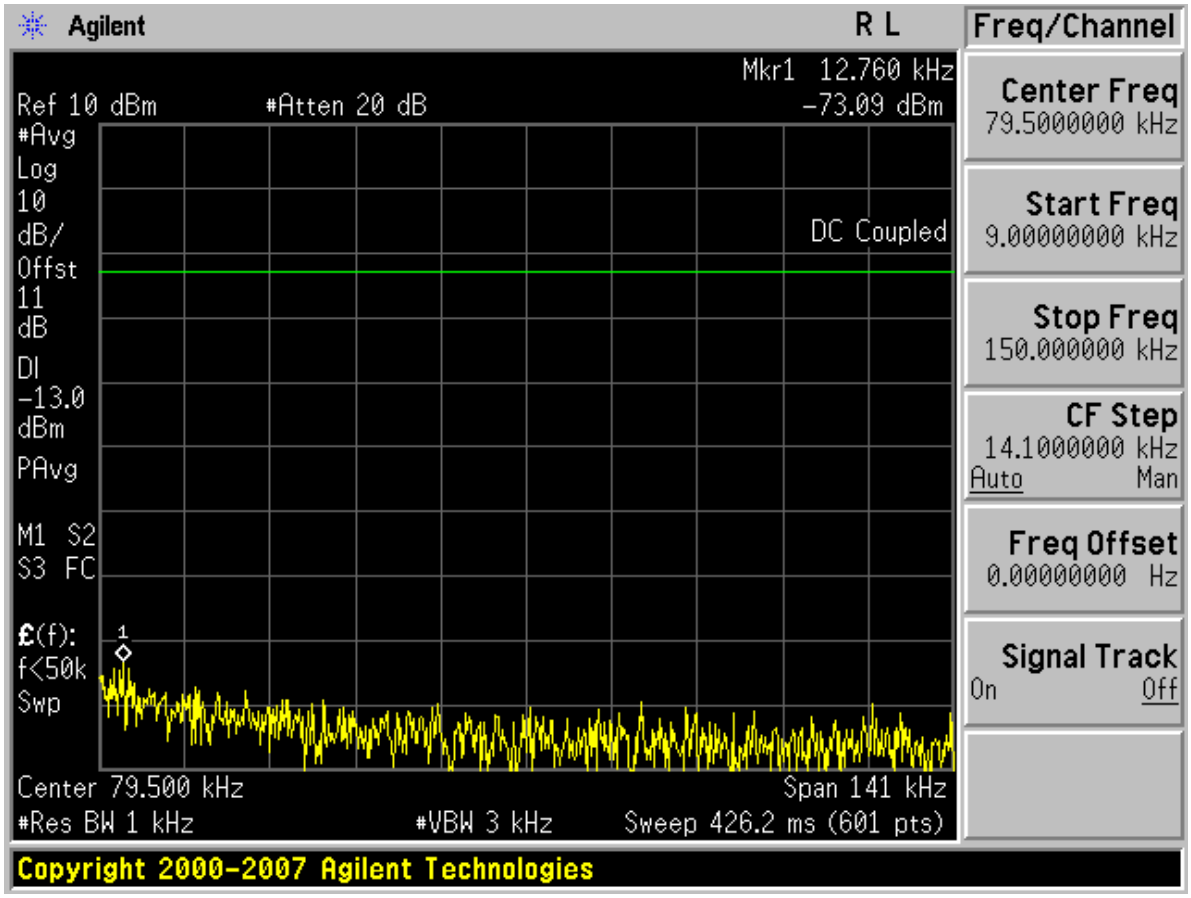
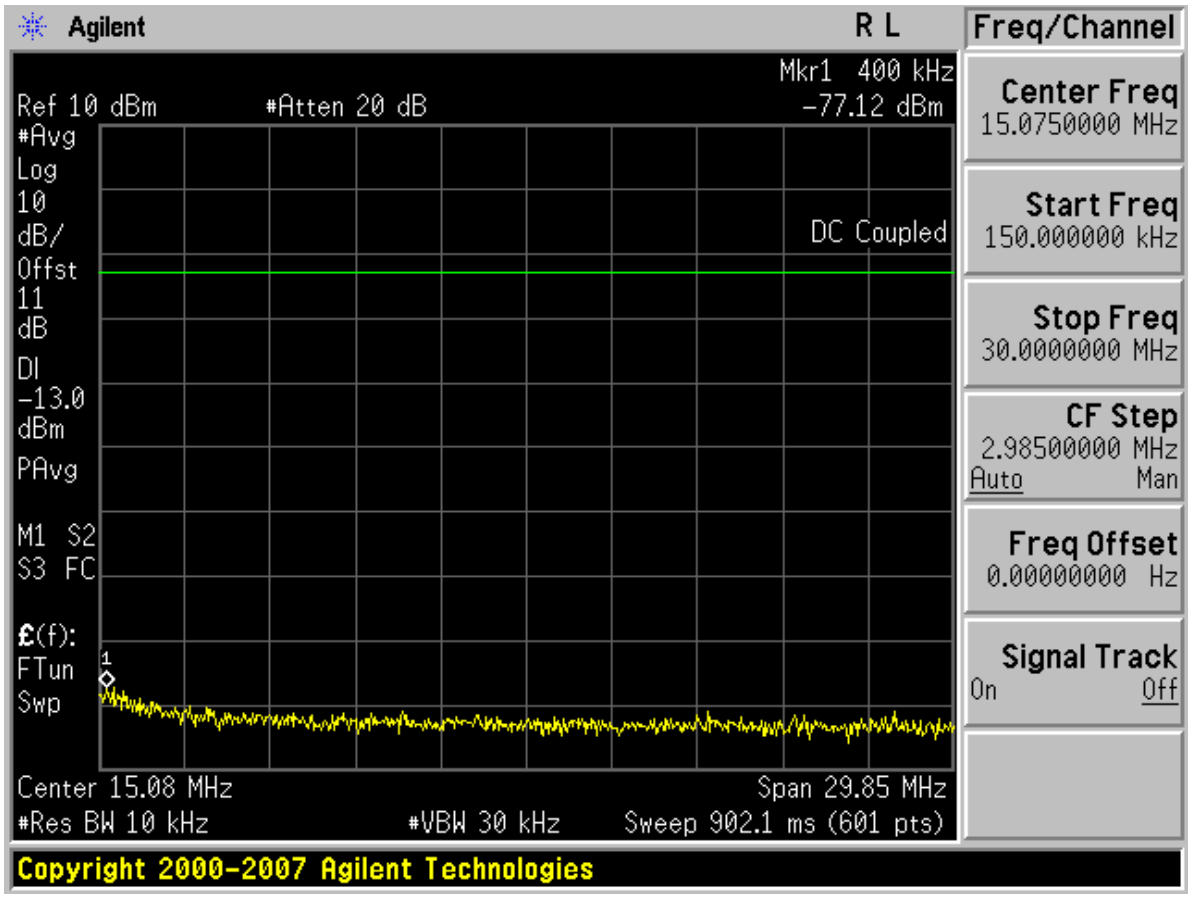
Channel 777


Agilent
R L
Freq/Channel
Mkr1 12.760 kHz
Ref 10 dBm
#Atten 20 dB
-73.09 dBm
#Avg
Log
10
dB/
Offst
11
dB
Dl
-13.0
dBm
PAvg
DC Coupled
M1 S2
S3 FC
£(f):
f<50k
Swp
1
Center 79.500 kHz
Span 141 kHz
#Res BW 1 kHz
#VBW 3 kHz
Sweep 426.2 ms (601 pts)
Center Freq
79.5000000 kHz
Start Freq
9.00000000 kHz
Stop Freq
150.000000 kHz
CF Step
14.1000000 kHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
Copyright 2000-2007 Agilent Technologies


Agilent
R L
Freq/Channel
Mkr1 400 kHz
Ref 10 dBm
#Atten 20 dB
-77.12 dBm
#Avg
Log
10
dB/
Offst
11
dB
Dl
-13.0
dBm
PAvg
DC Coupled
M1 S2
S3 FC
£(f):
FTun
Swp
Center Freq
15.0750000 MHz
Start Freq
150.000000 kHz
Stop Freq
30.0000000 MHz
CF Step
2.98500000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
Center 15.08 MHz
Span 29.85 MHz
#Res BW 10 kHz
#VBW 30 kHz
Sweep 902.1 ms (601 pts)
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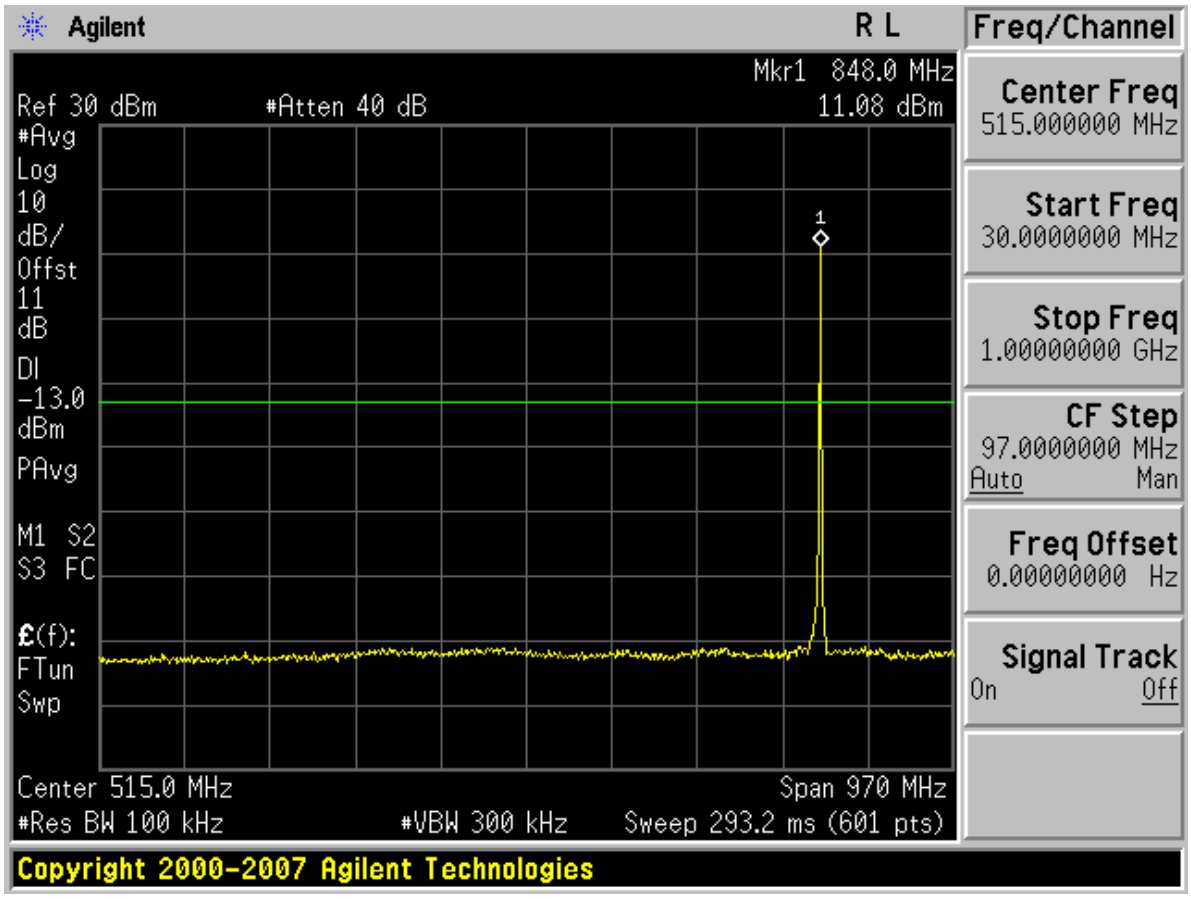
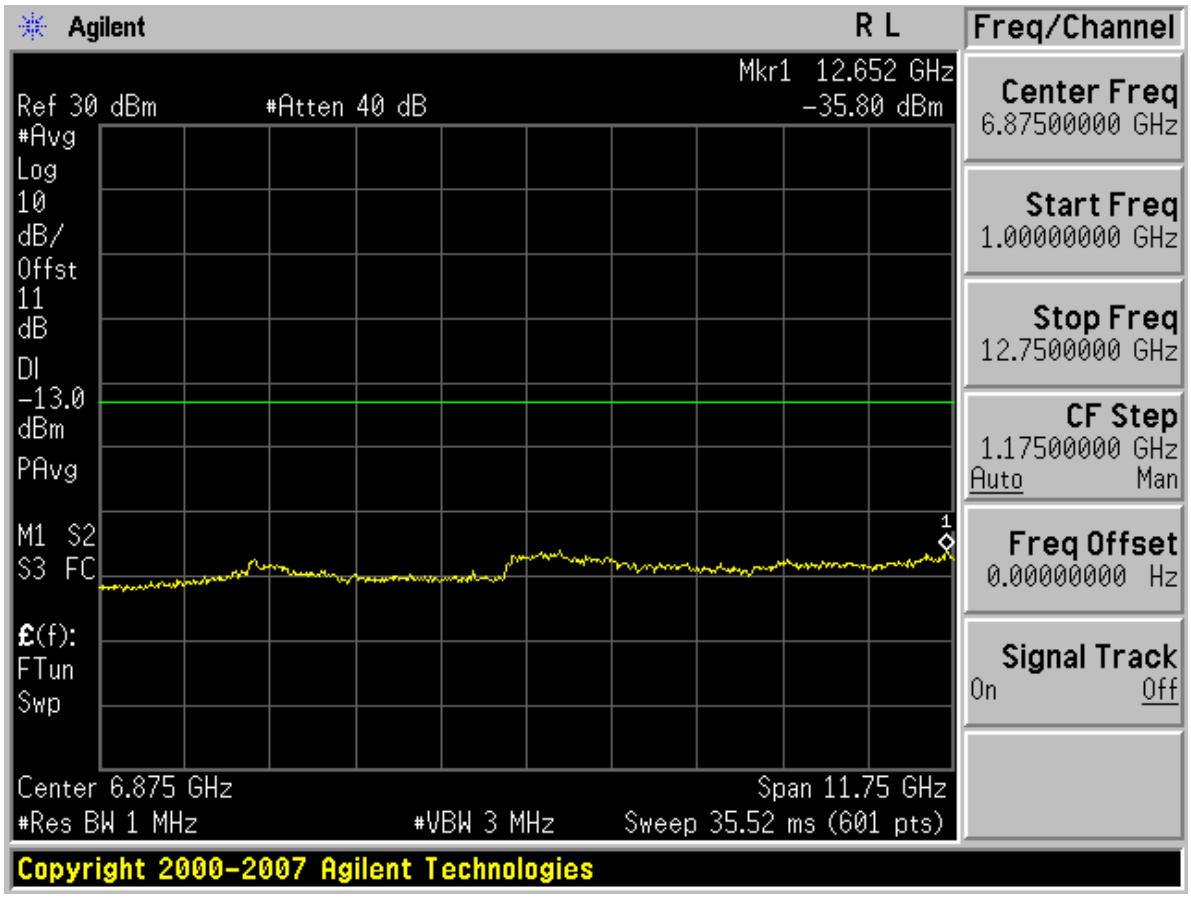

Agilent
R L
Freq/Channel
Mkr1 848.0 MHz
Ref 30 dBm
#Atten 40 dB
11.08 dBm
#Avg
Log
10
dB/
Offst
11
dB
Dl
-13.0
dBm
PAvg
M1 S2
S3 FC
£(f):
FTun
Swp
Center Freq
515.000000 MHz
Start Freq
30.0000000 MHz
Stop Freq
1.00000000 GHz
CF Step
97.0000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
Center 515.0 MHz
Span 970 MHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 293.2 ms (601 pts)
Copyright 2000-2007 Agilent Technologies


Agilent
R L
Freq/Channel
Mkr1 12.652 GHz
Ref 30 dBm
#Atten 40 dB
-35.80 dBm
#Avg
Log
10
dB/
Offst
11
dB
Dl
-13.0
dBm
PAvg
M1 S2
S3 FC
£(f):
FTun
Swp
Center Freq
6.87500000 GHz
Start Freq
1.00000000 GHz
Stop Freq
12.7500000 GHz
CF Step
1.17500000 GHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
Center 6.875 GHz
Span 11.75 GHz
#Res BW 1 MHz
#VBW 3 MHz
Sweep 35.52 ms (601 pts)
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