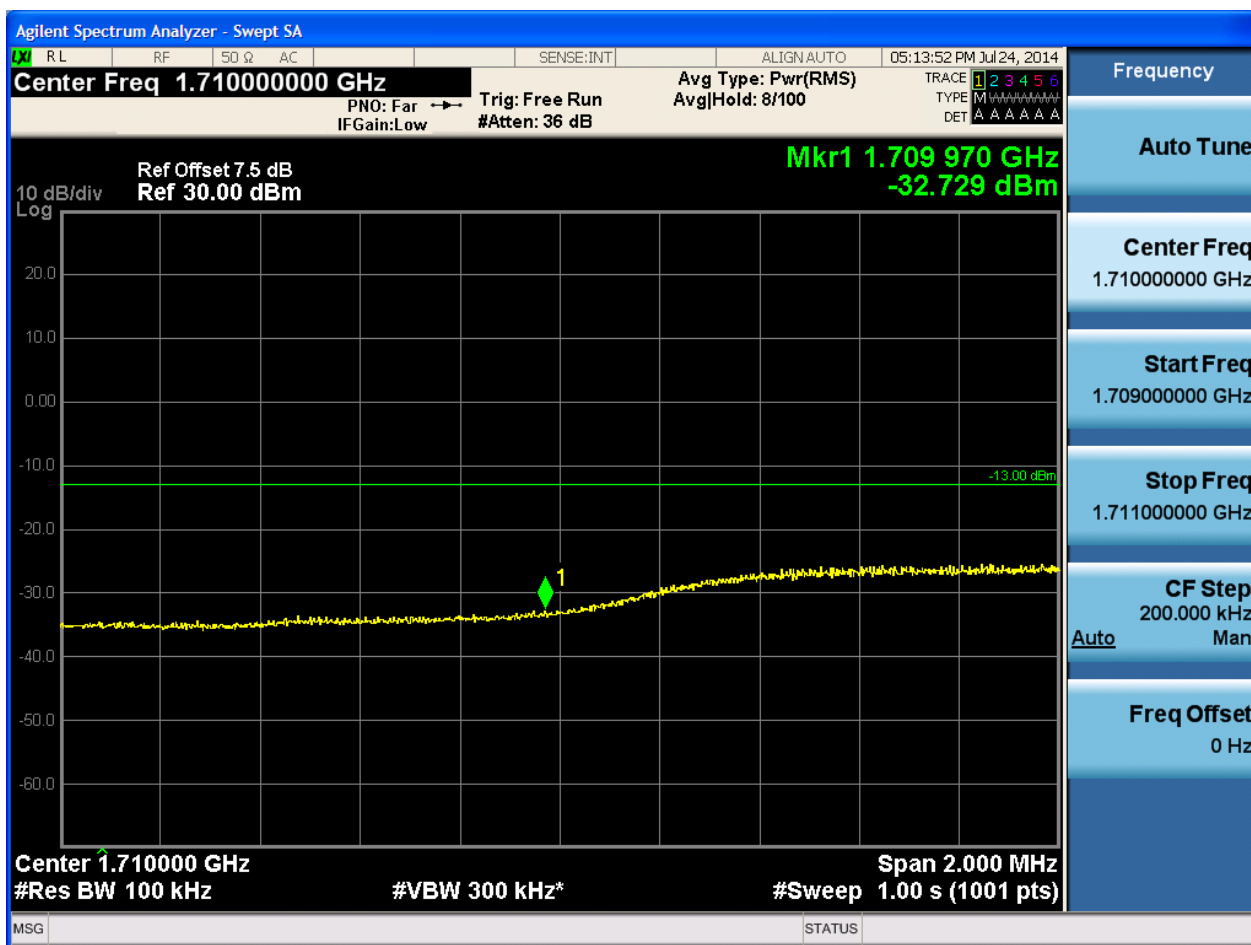




5.1.1.1.4.1.3 Test RB = RB25#13





5.1.1.1.4.1.4 Test RB = RB50#0





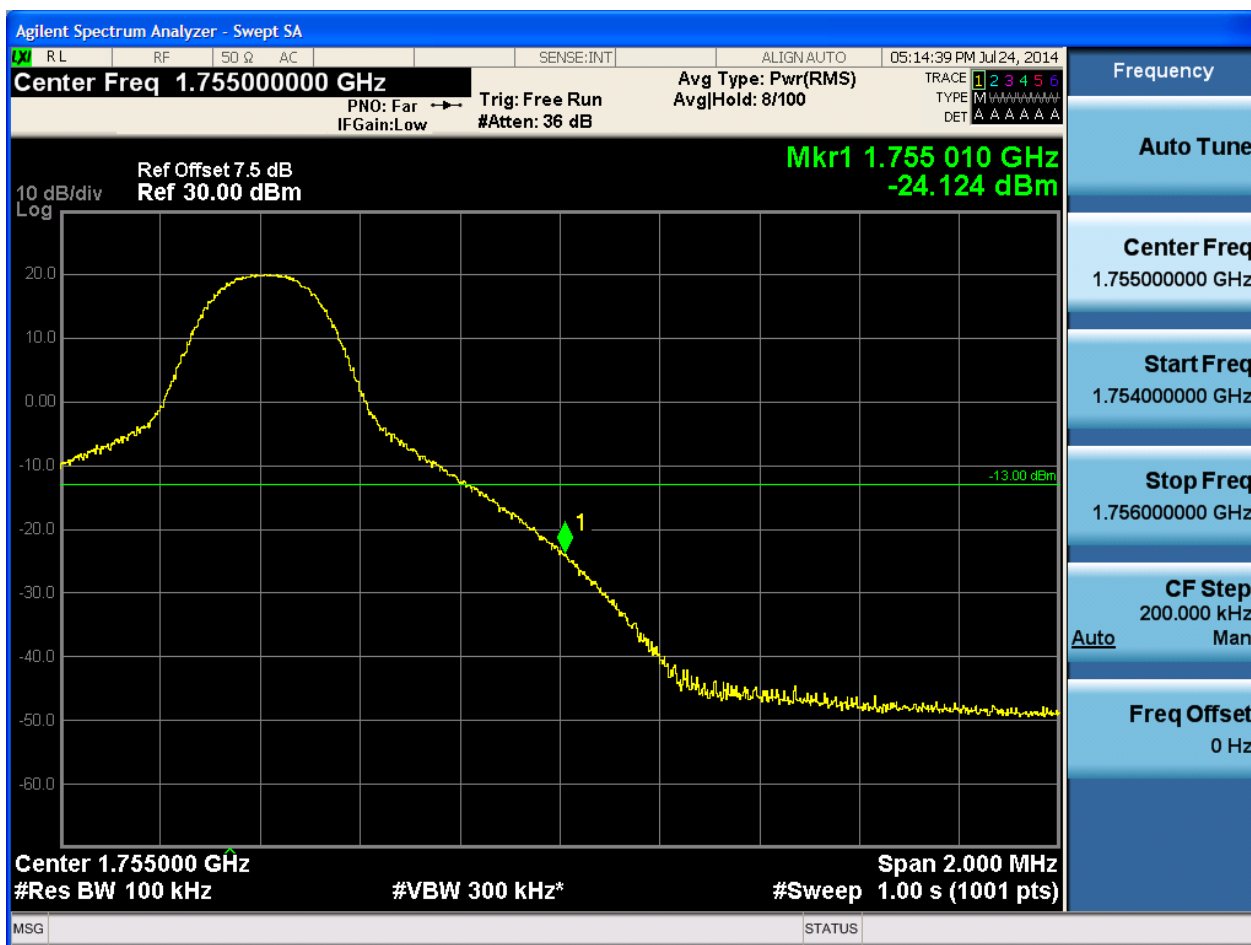
5.1.1.1.4.2 Test Channel = HCH

5.1.1.1.4.2.1 Test RB = RB1#0





5.1.1.1.4.2.2 Test RB = RB1#49





5.1.1.1.4.2.3 Test RB = RB25#13





5.1.1.1.4.2.4 Test RB = RB50#0







5.1.1.1.5.1.2 Test RB = RB1#74





5.1.1.1.5.1.3 Test RB = RB38#19





5.1.1.1.5.1.4 Test RB = RB75#0





5.1.1.1.5.2 Test Channel = HCH

5.1.1.1.5.2.1 Test RB = RB1#0



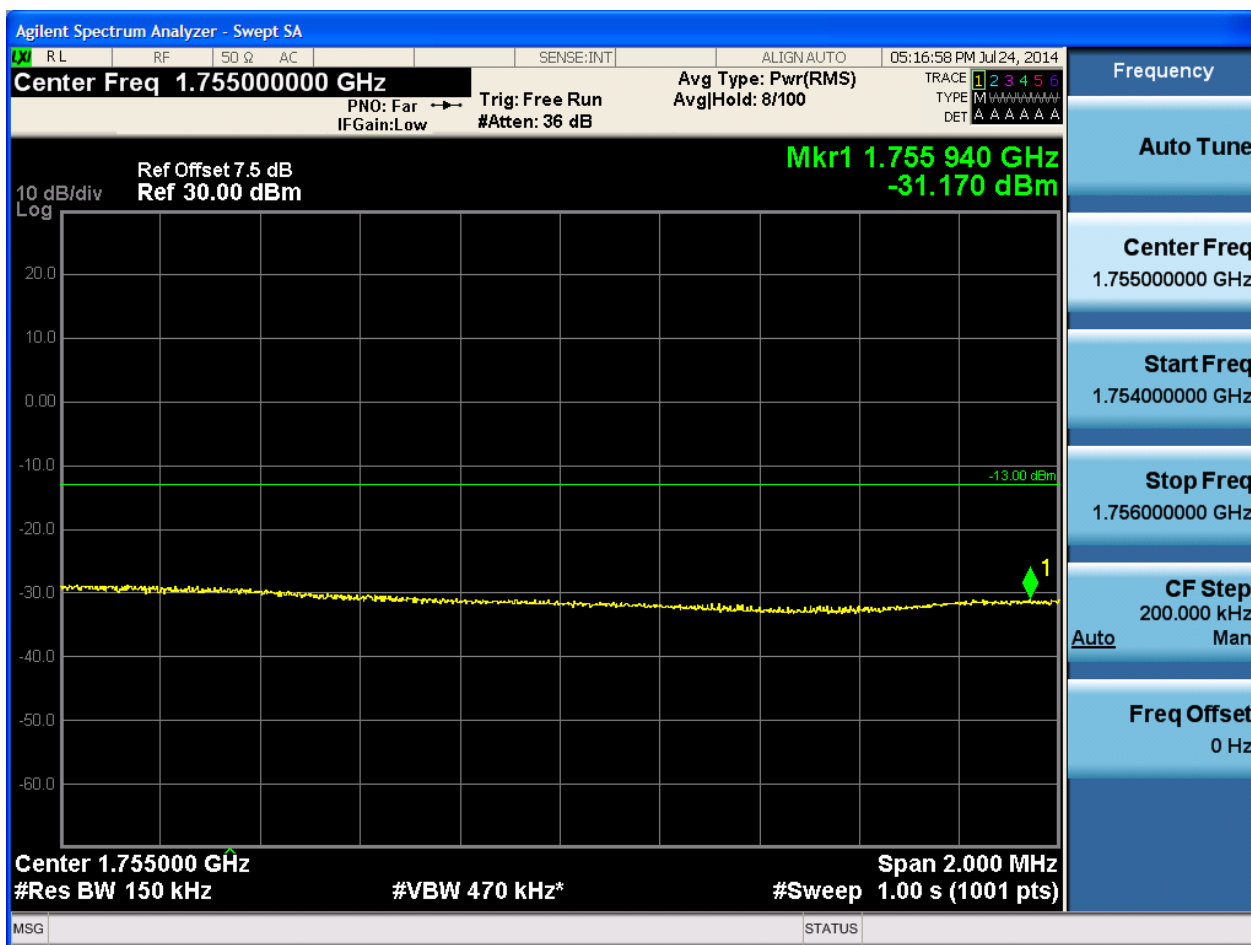


5.1.1.1.5.2.2 Test RB = RB1#74





5.1.1.1.5.2.3 Test RB = RB38#19





5.1.1.1.5.2.4 Test RB = RB75#0







5.1.1.1.6.1.2 Test RB = RB1#99



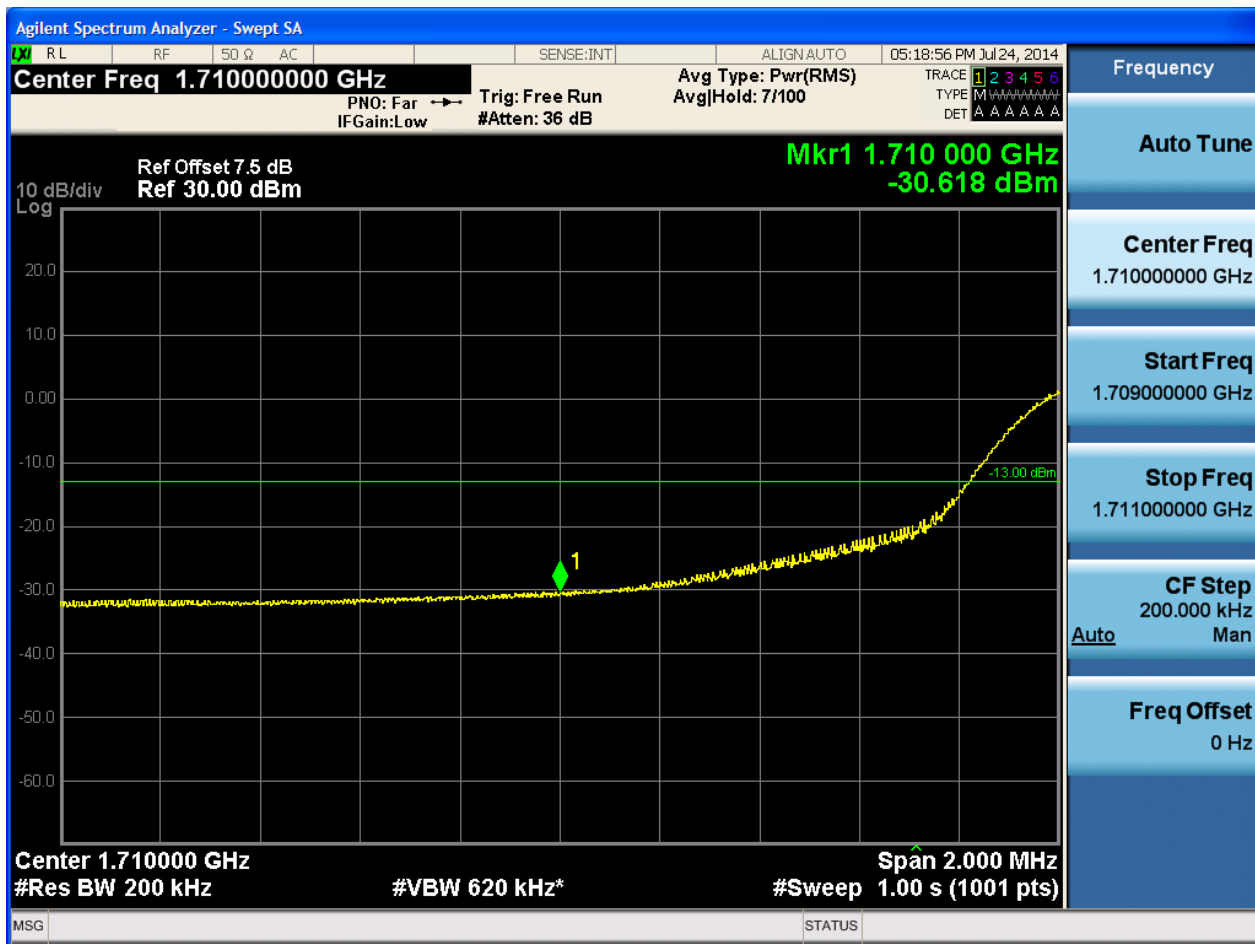


5.1.1.1.6.1.3 Test RB = RB50#25





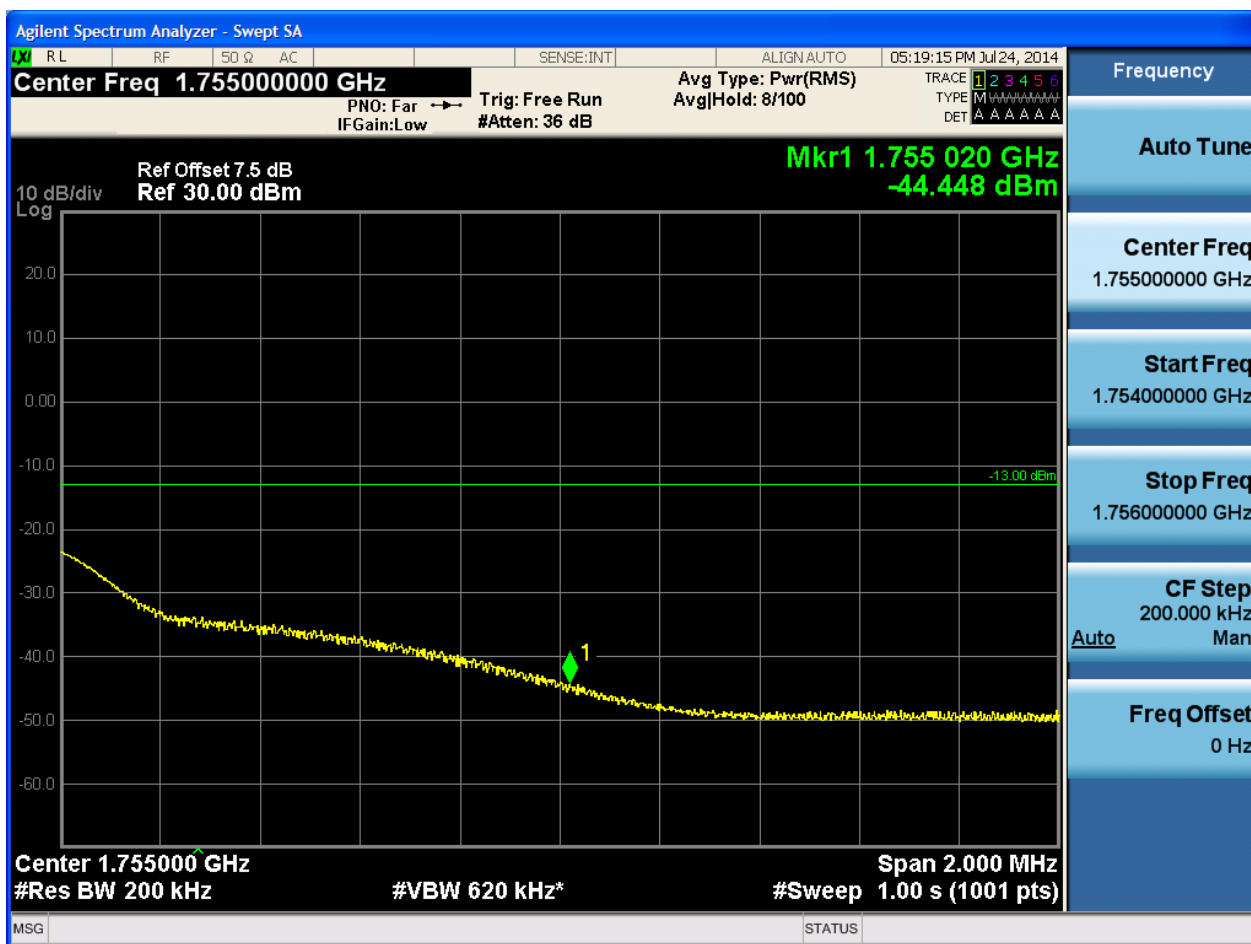
5.1.1.1.6.1.4 Test RB = RB100#0





5.1.1.1.6.2 Test Channel = HCH

5.1.1.1.6.2.1 Test RB = RB1#0



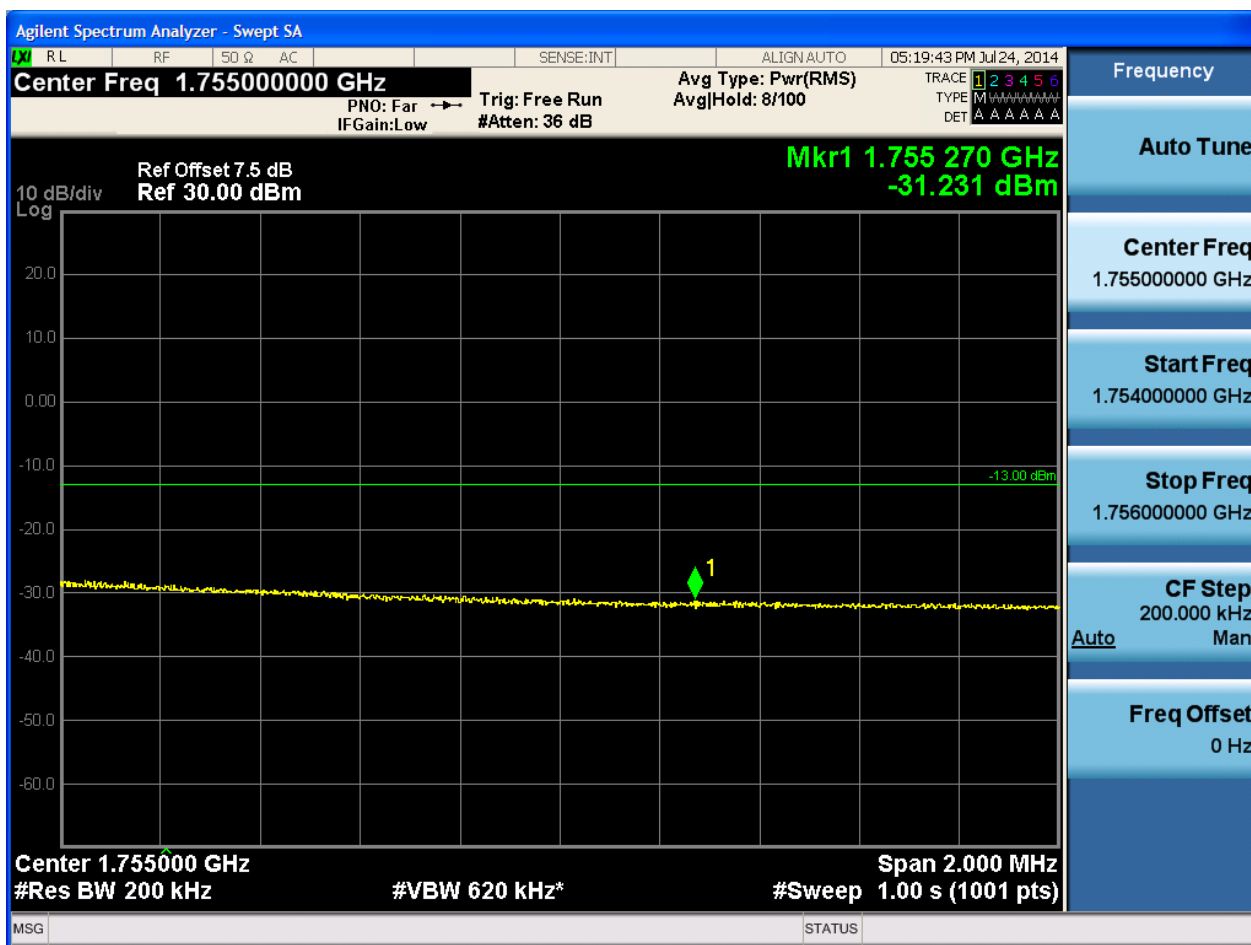


5.1.1.1.6.2.2 Test RB = RB1#99





5.1.1.1.6.2.3 Test RB = RB50#25





5.1.1.1.6.2.4 Test RB = RB100#0



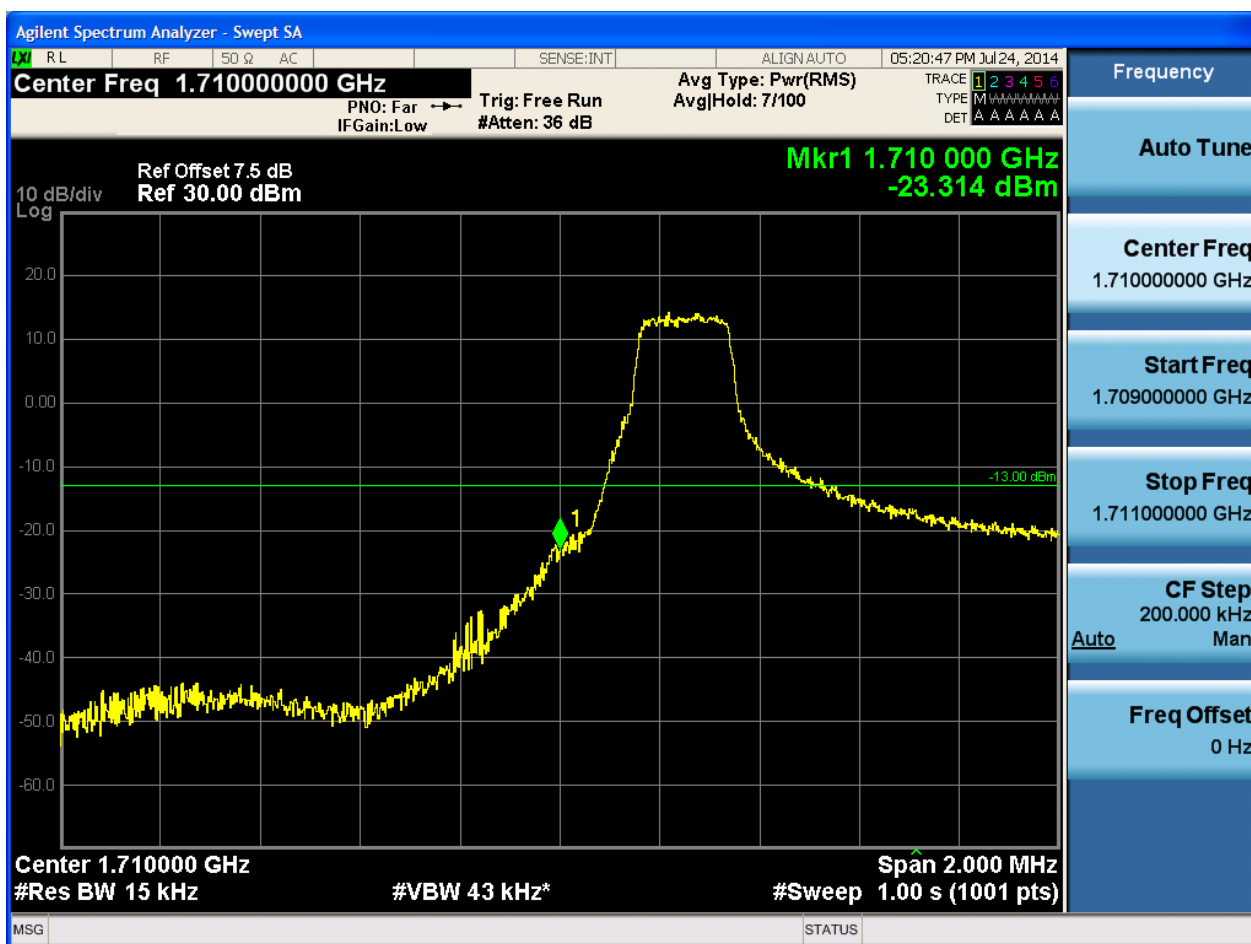


5.1.1.2 Test Mode = LTE/TM2

5.1.1.2.1 Test Bandwidth = 1.4

5.1.1.2.1.1 Test Channel = LCH

5.1.1.2.1.1.1 Test RB = RB1#0



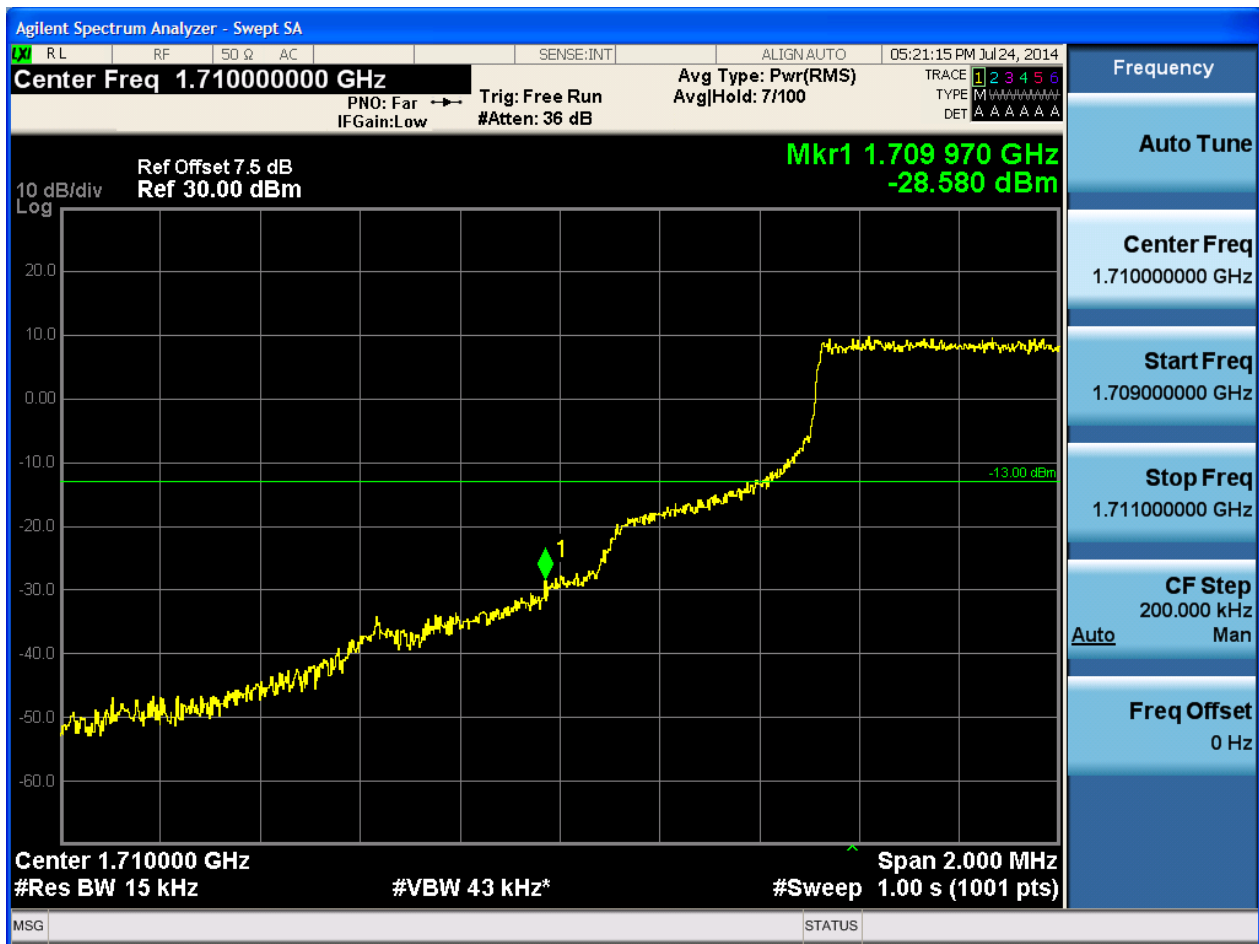


5.1.1.2.1.2 Test RB = RB1#5



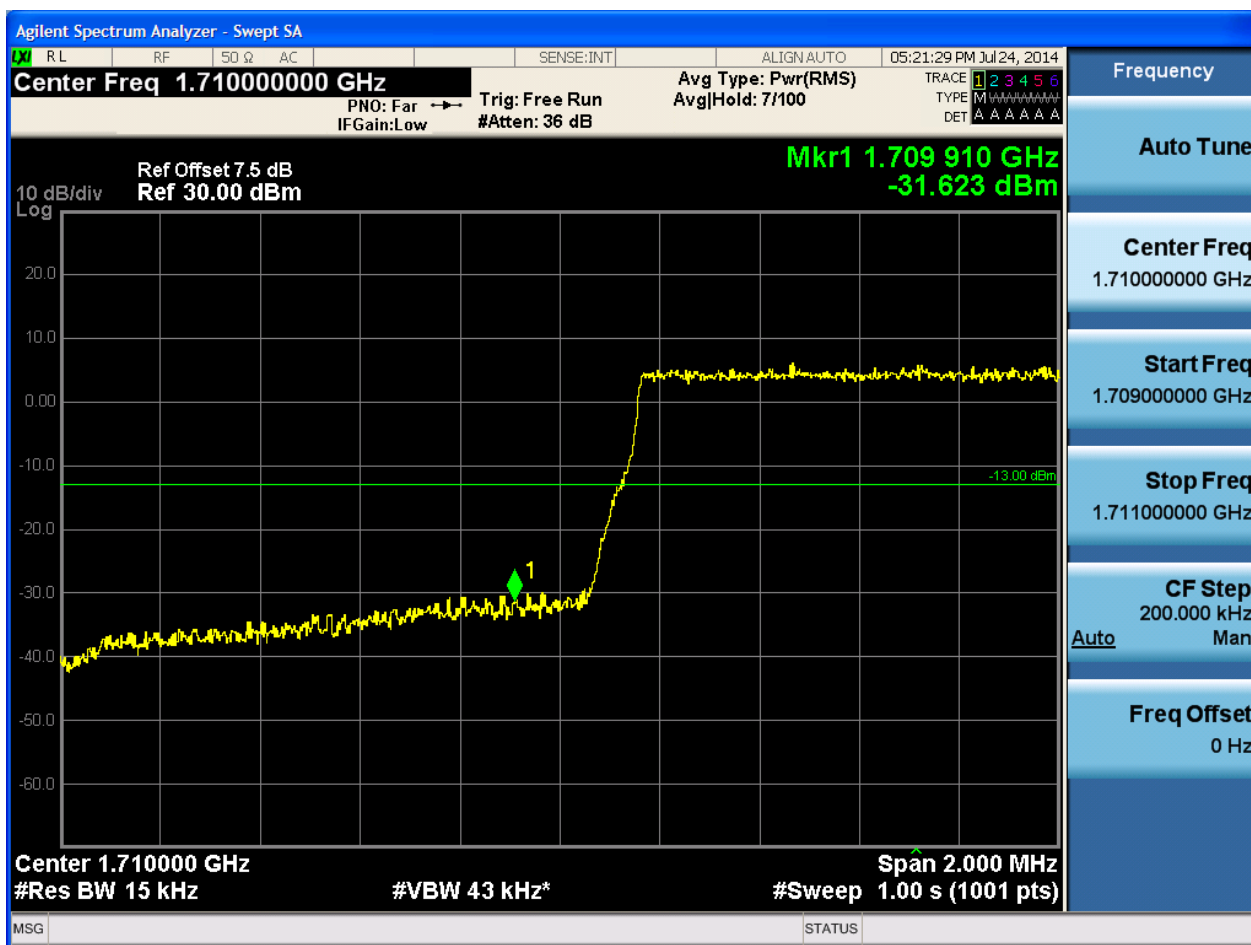


5.1.1.2.1.1.3 Test RB = RB3#2





5.1.1.2.1.1.4 Test RB = RB6#0





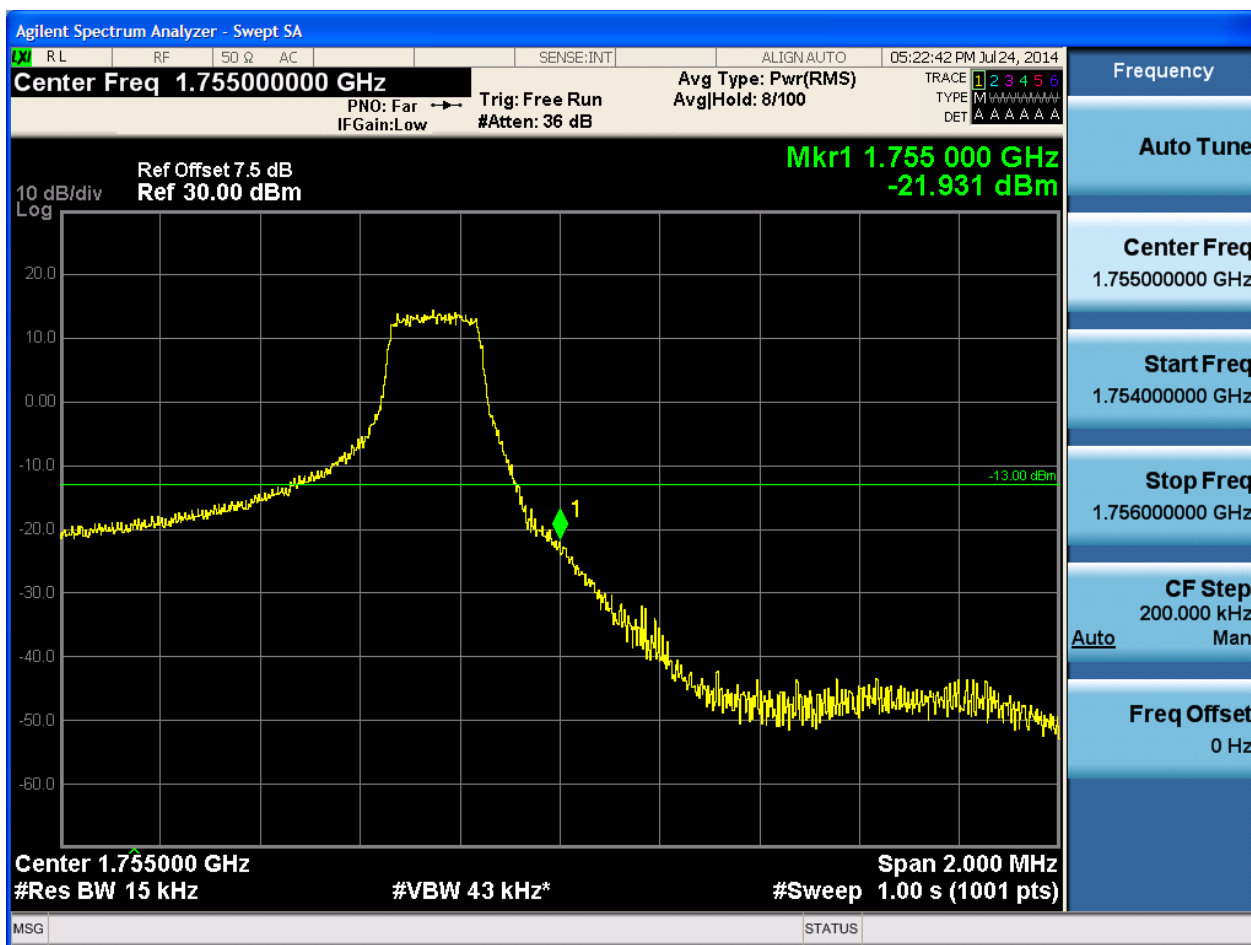
5.1.1.2.1.2 Test Channel = HCH

5.1.1.2.1.2.1 Test RB = RB1#0





5.1.1.2.1.2.2 Test RB = RB1#5



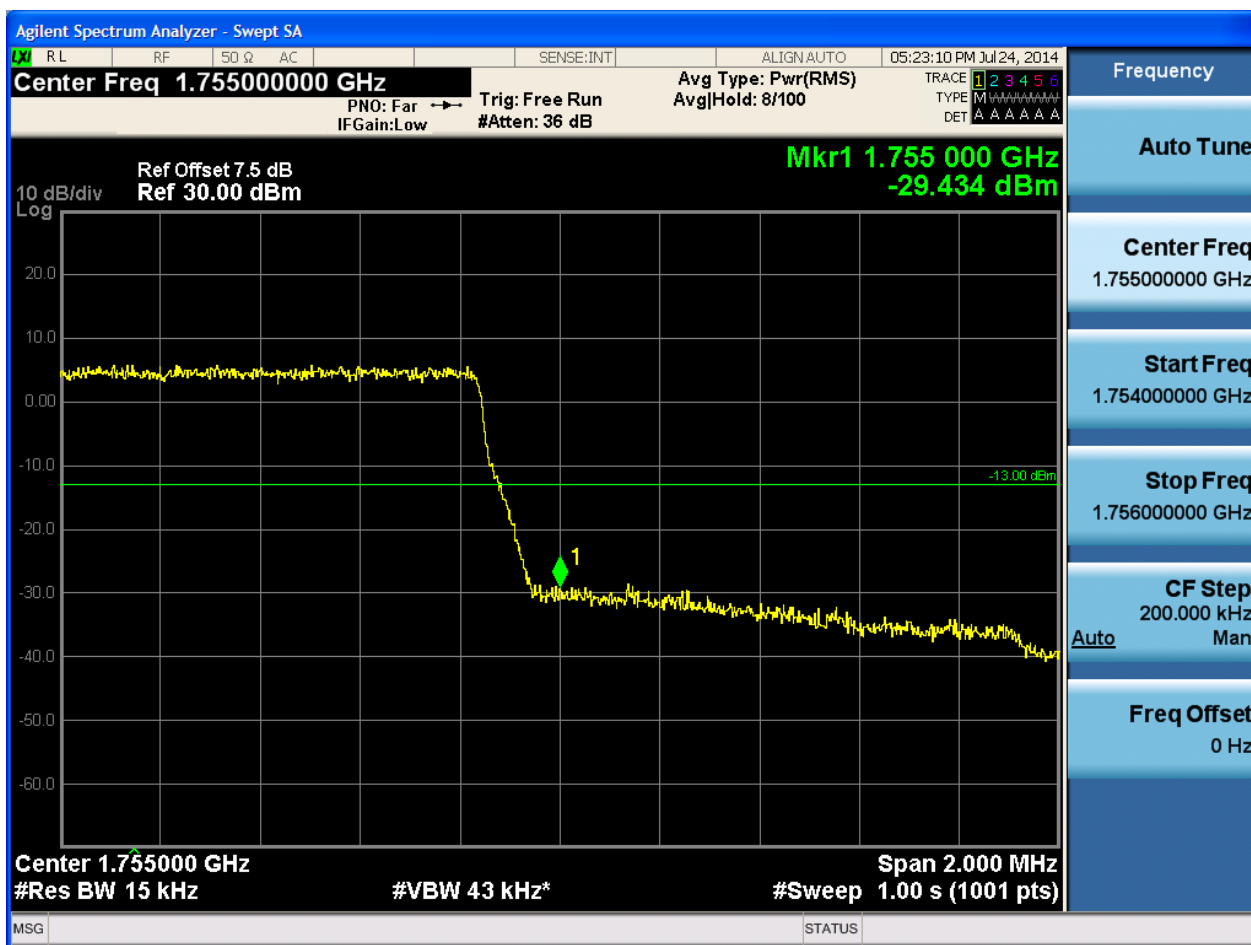


5.1.1.2.1.2.3 Test RB = RB3#2





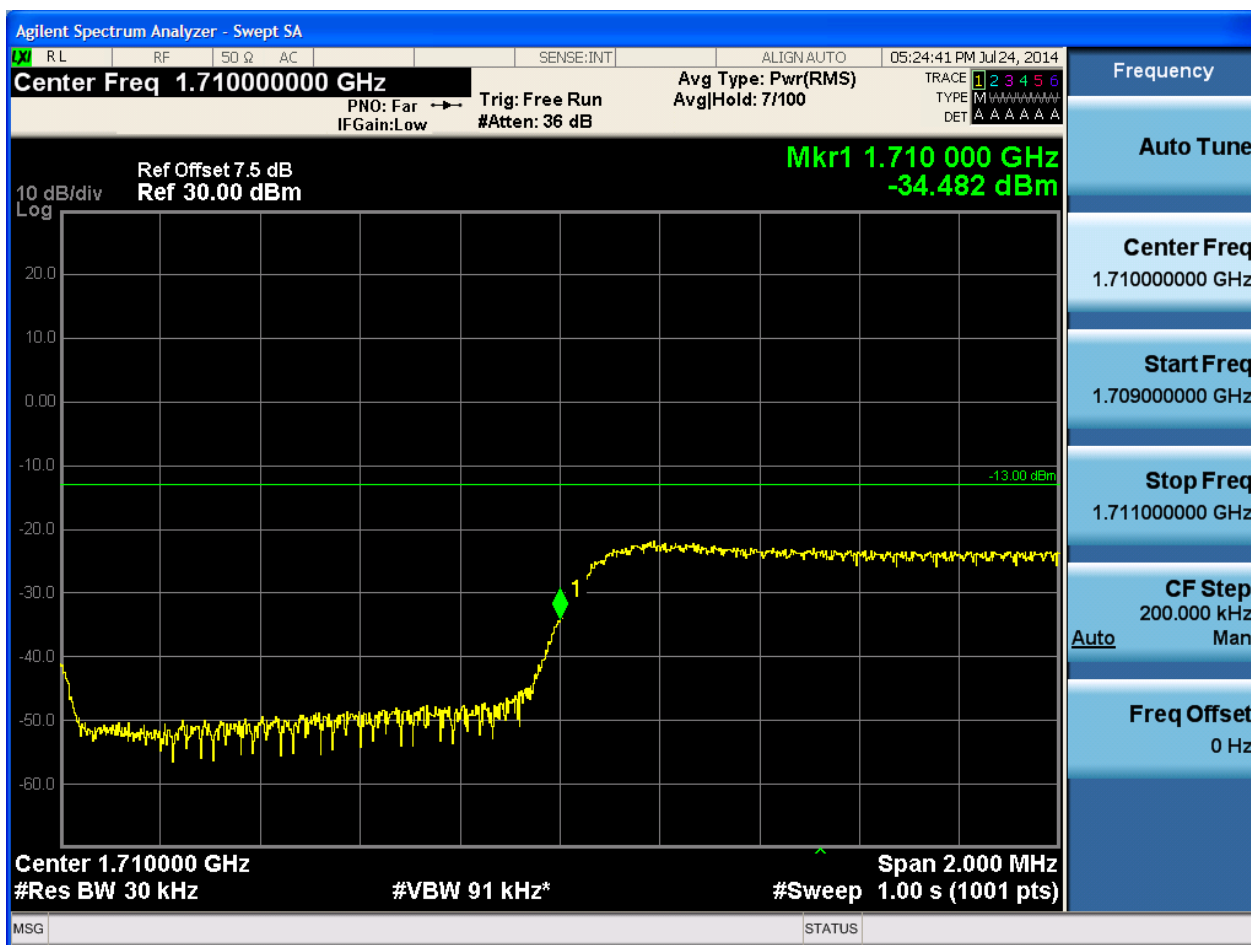
5.1.1.2.1.2.4 Test RB = RB6#0





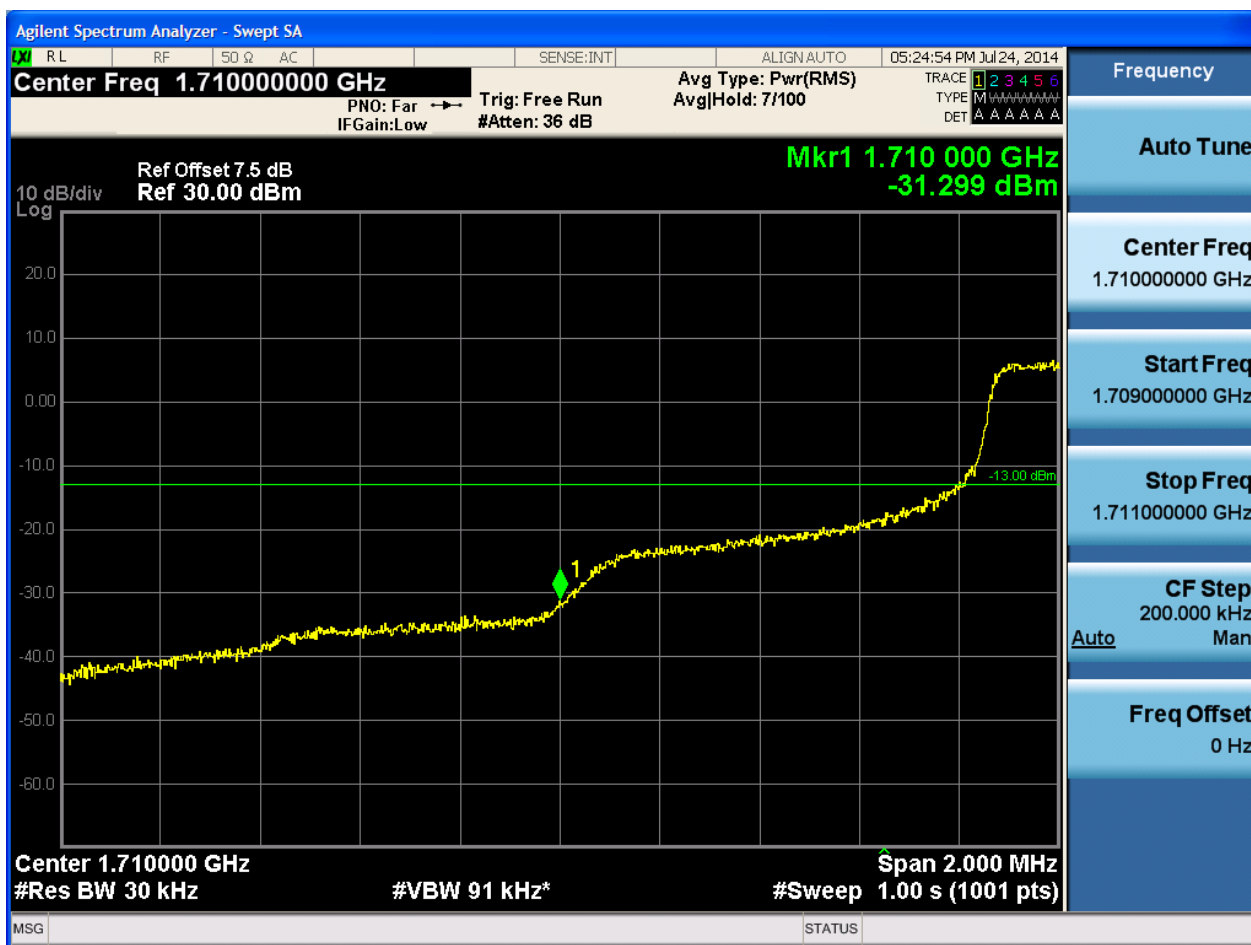


5.1.1.2.2.1.2 Test RB = RB1#14



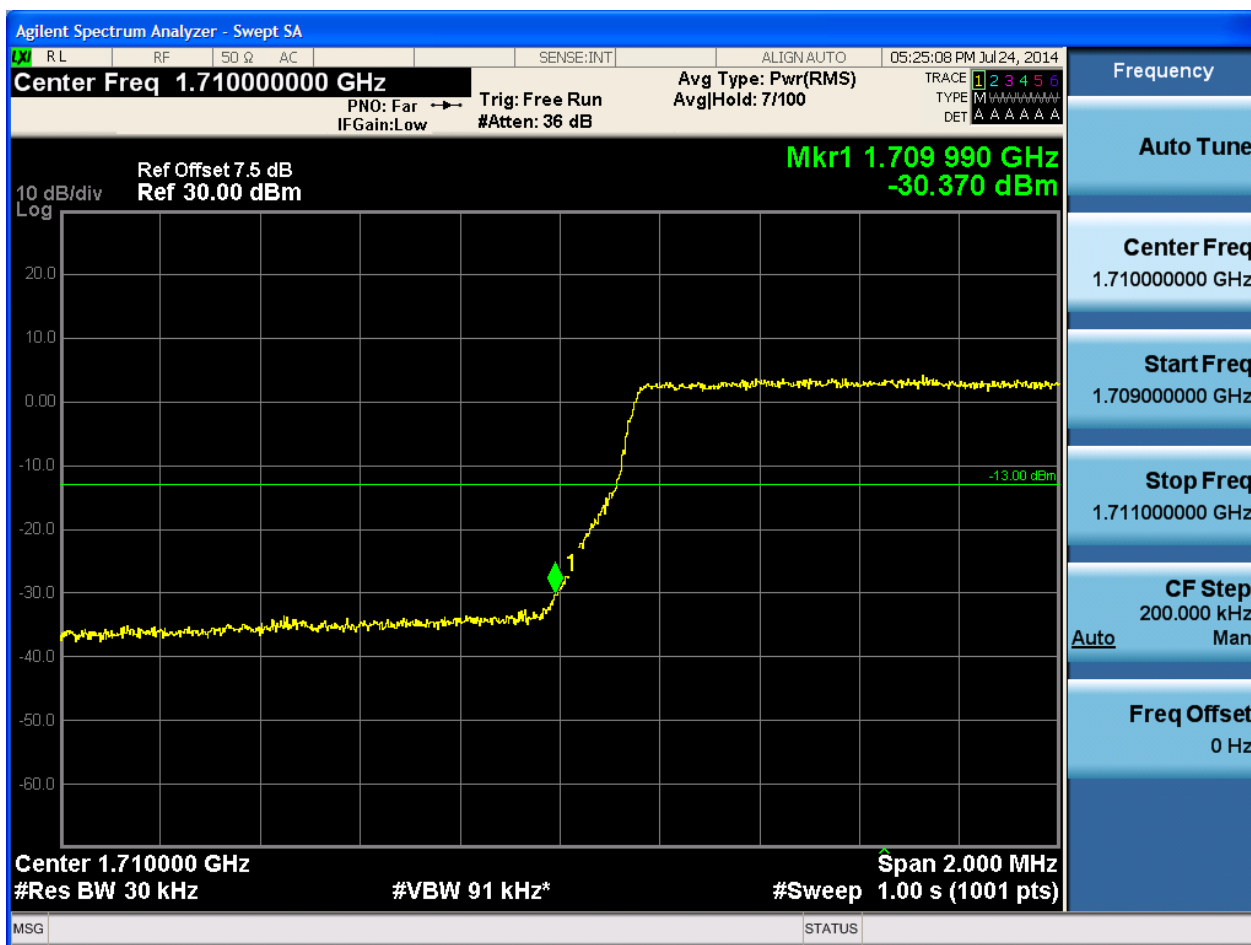


5.1.1.2.2.1.3 Test RB = RB8#4





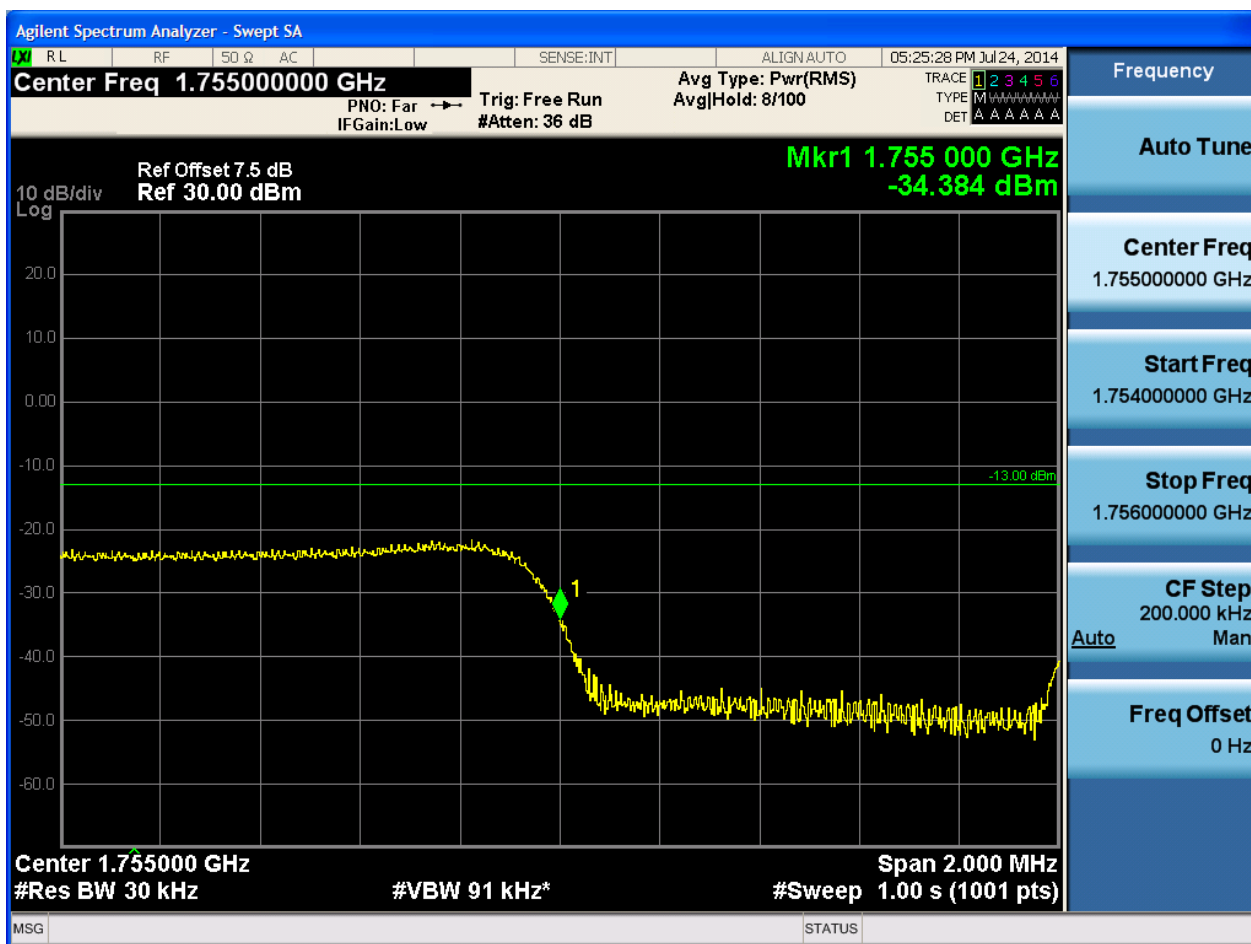
5.1.1.2.2.1.4 Test RB = RB15#0





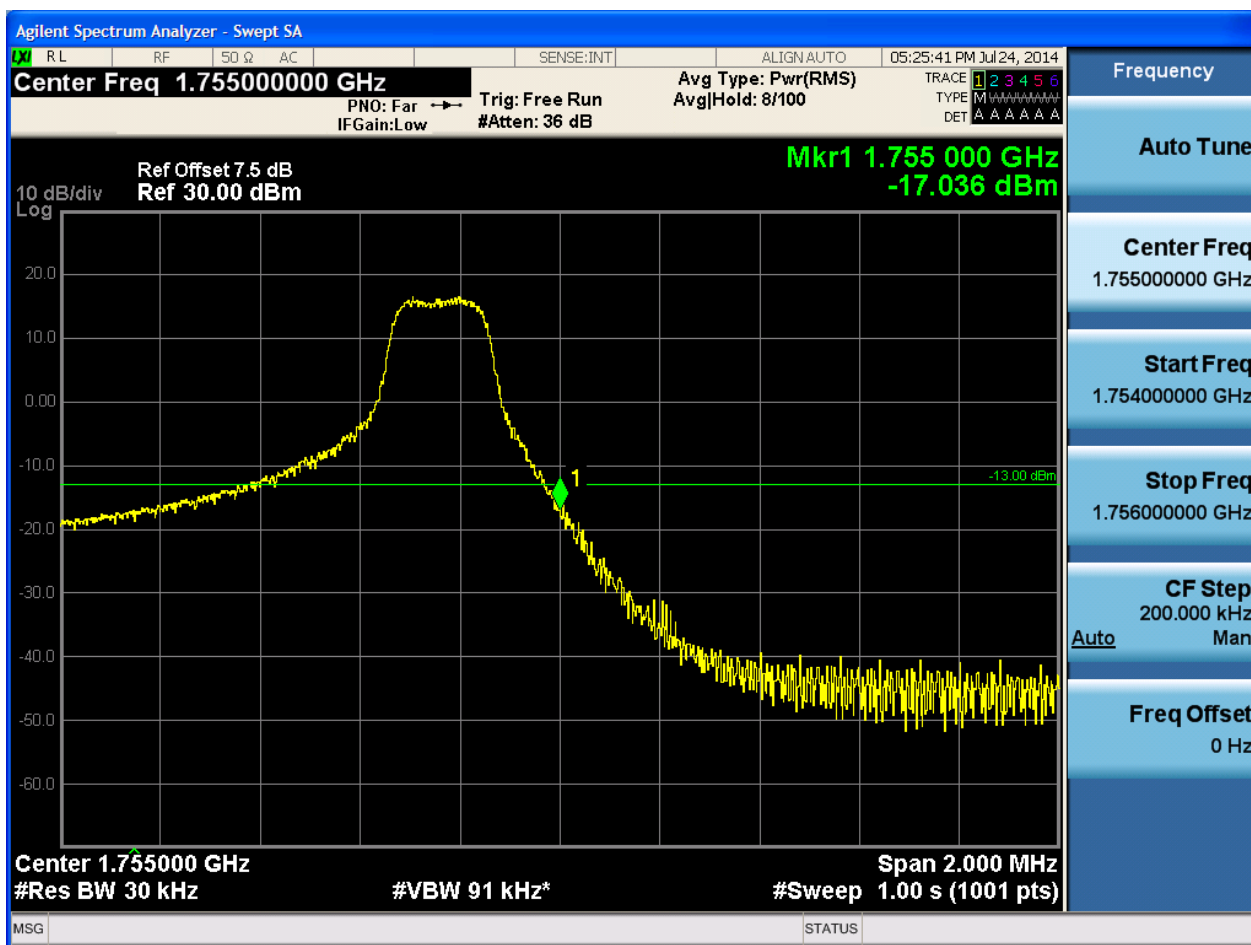
5.1.1.2.2.2 Test Channel = HCH

5.1.1.2.2.2.1 Test RB = RB1#0





5.1.1.2.2.2 Test RB = RB1#14





Agilent Spectrum Analyzer - Swept SA

Center Freq 1.755000000 GHz

Ref Offset 7.5 dB
Ref 30.00 dBm

10 dB/div
Log

Trig: Free Run
#Atten: 36 dB

Avg Type: Pwr(RMS)
Avg|Hold: 8/100

TRACE 1 2 3 4 5 6
TYPE M W W W W W W W
DET A A A A A A

Mkr1 1.755 020 GHz
-29.858 dBm

-13.00 dBm

1

Center 1.755000 GHz
#Res BW 30 kHz

Span 2.000 MHz
#Sweep 1.00 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
1.755000000 GHz

Start Freq
1.754000000 GHz

Stop Freq
1.756000000 GHz

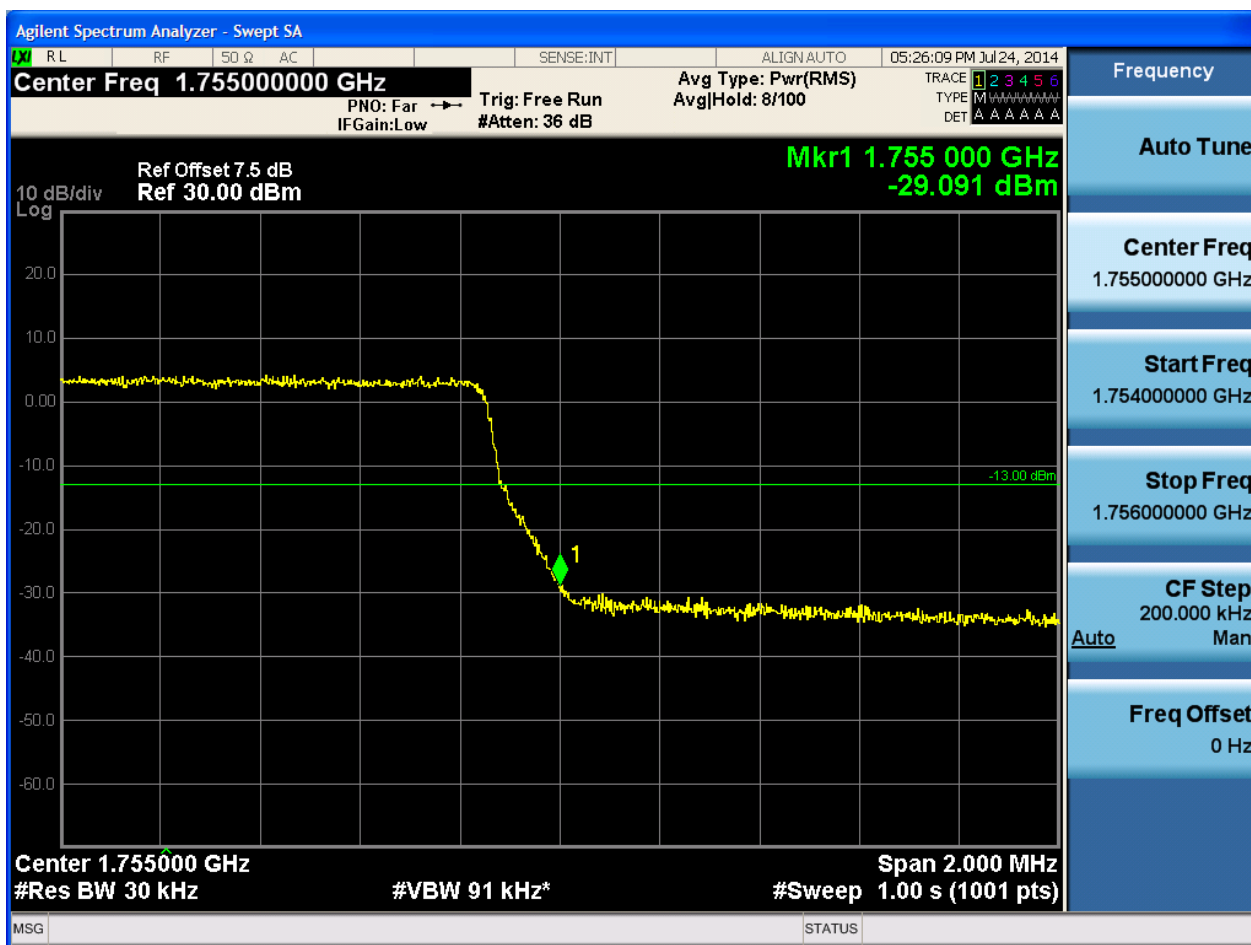
CF Step
200.000 kHz
Man

Auto

Freq Offset
0 Hz



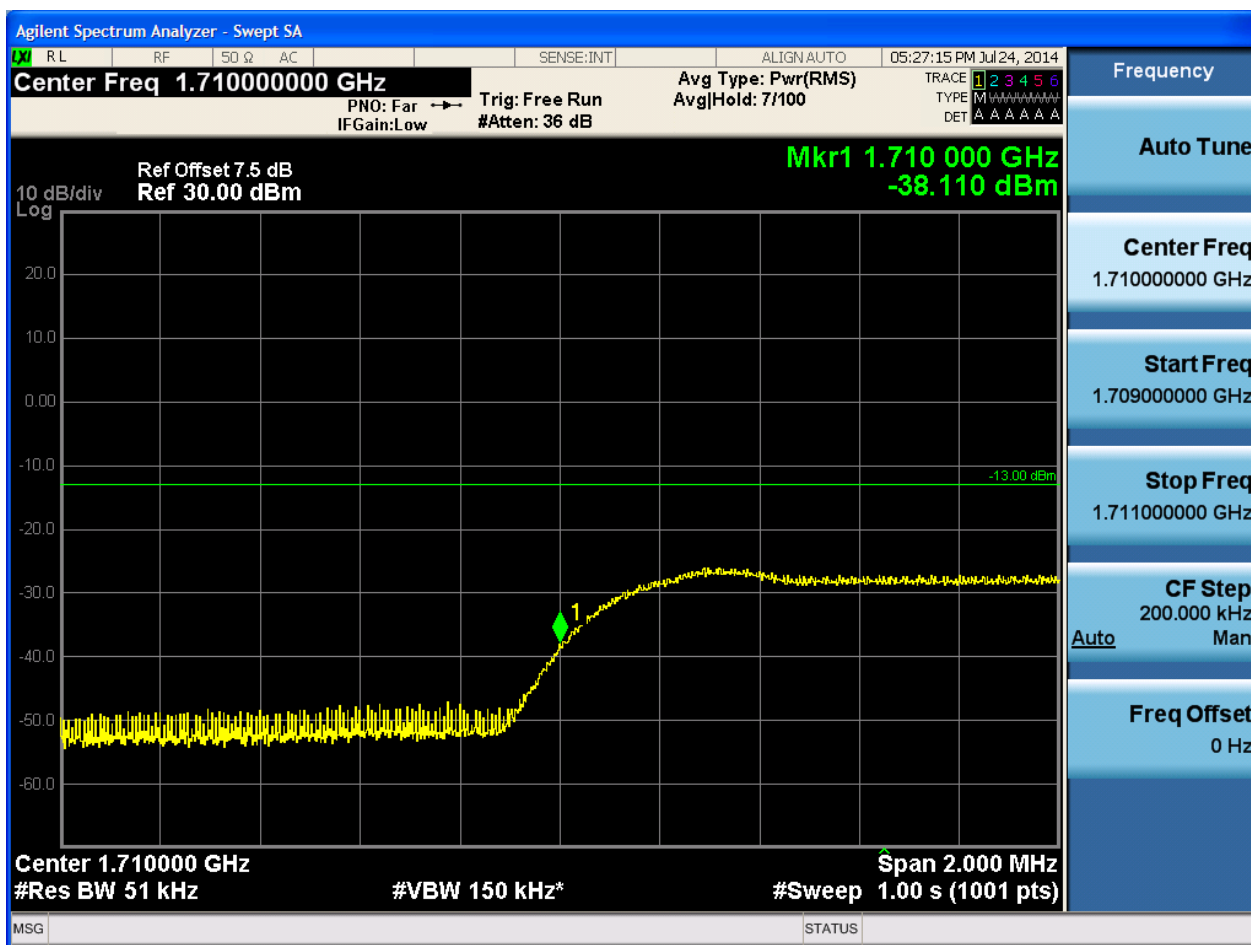
5.1.1.2.2.4 Test RB = RB15#0







5.1.1.2.3.1.2 Test RB = RB1#24



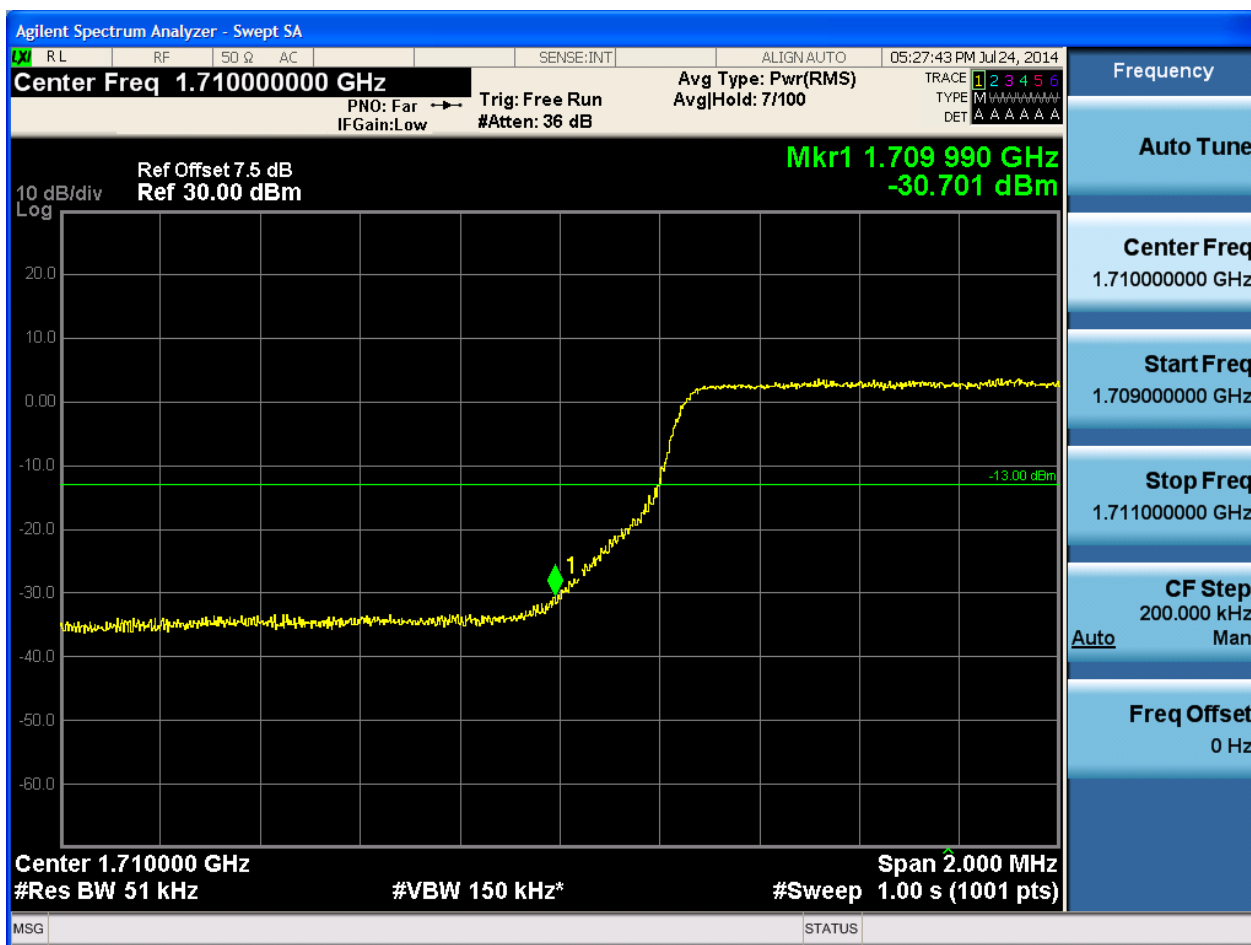


5.1.1.2.3.1.3 Test RB = RB12#6





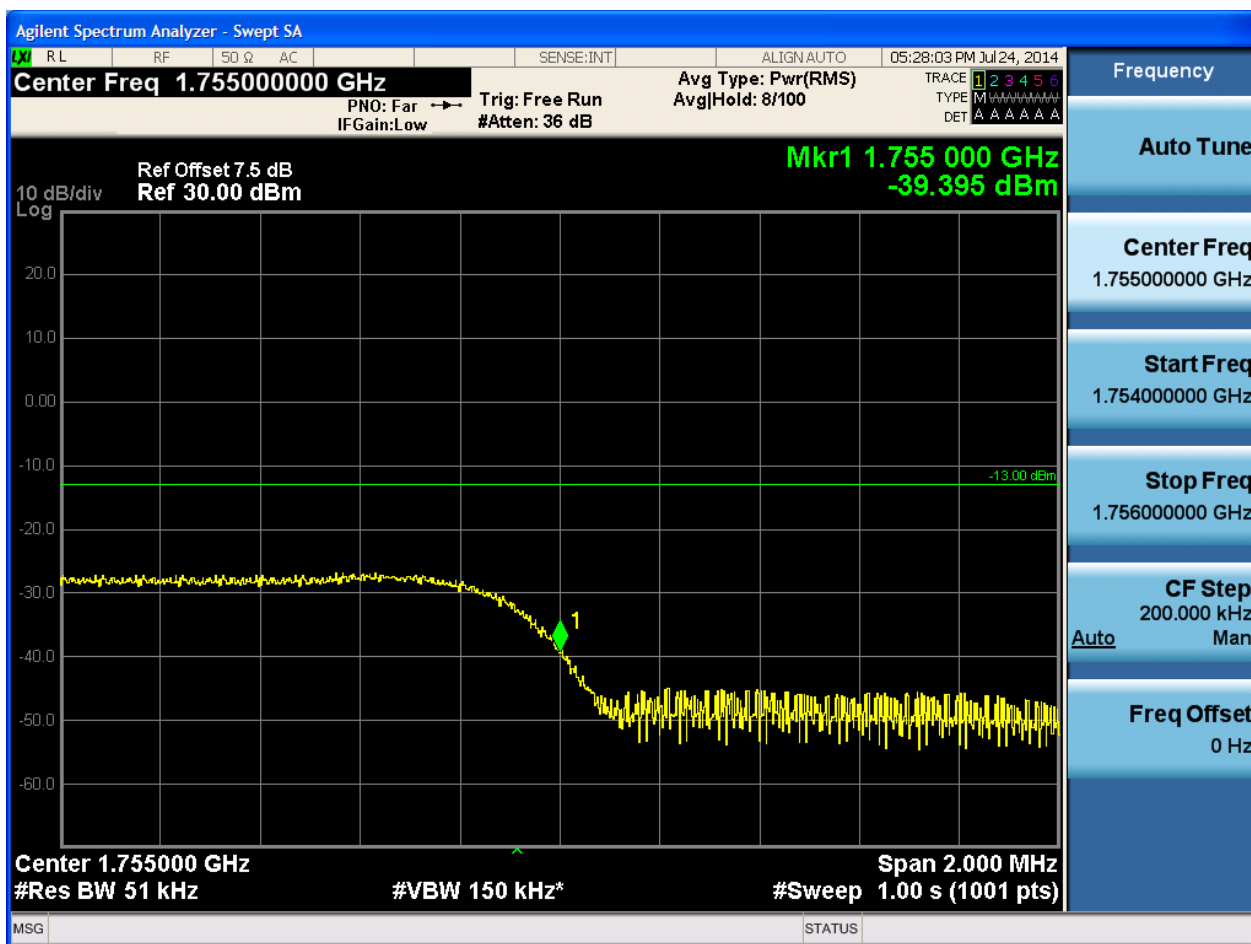
5.1.1.2.3.1.4 Test RB = RB25#0





5.1.1.2.3.2 Test Channel = HCH

5.1.1.2.3.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

Center Freq 1.755000000 GHz

Ref Offset 7.5 dB
Ref 30.00 dBm

10 dB/div
Log

Mkr1 1.755 000 GHz
-19.291 dBm

Center 1.755000 GHz
#Res BW 51 kHz
#VBW 150 kHz*

Span 2.000 MHz
#Sweep 1.00 s (1001 pts)

Auto Tune

Center Freq
1.755000000 GHz

Start Freq
1.754000000 GHz

Stop Freq
1.756000000 GHz

CF Step
200.000 kHz
Man

Freq Offset
0 Hz

Alignment Completed

STATUS



Agilent Spectrum Analyzer - Swept SA

Center Freq 1.755000000 GHz

Ref Offset 7.5 dB
Ref 30.00 dBm

Mkr1 1.755 010 GHz
-30.908 dBm

10 dB/div
Log

Center 1.755000 GHz
#Res BW 51 kHz

#VBW 150 kHz*

Span 2.000 MHz
#Sweep 1.00 s (1001 pts)

Auto Tune

Center Freq
1.755000000 GHz

Start Freq
1.754000000 GHz

Stop Freq
1.756000000 GHz

CF Step
200.000 kHz
Man

Freq Offset
0 Hz

The screenshot displays a spectrum analyzer interface. The main plot area shows a noisy signal with a downward-sloping trend. A horizontal green line is drawn across the plot at approximately -13.00 dBm. A yellow marker labeled '1' is positioned on the signal at 1.755010 GHz and -30.908 dBm. The top of the screen shows various settings: Center Freq 1.755000000 GHz, Ref Offset 7.5 dB, Ref 30.00 dBm, Mkr1 1.755 010 GHz, -30.908 dBm, 10 dB/div, Log, Center 1.755000 GHz, #Res BW 51 kHz, #VBW 150 kHz*, Span 2.000 MHz, #Sweep 1.00 s (1001 pts). The right side of the screen features a vertical menu with options: Auto Tune, Center Freq (1.755000000 GHz), Start Freq (1.754000000 GHz), Stop Freq (1.756000000 GHz), CF Step (200.000 kHz, Man), and Freq Offset (0 Hz). The bottom of the screen shows the MSG and STATUS indicators.



Agilent Spectrum Analyzer - Swept SA

Center Freq 1.755000000 GHz

Ref Offset 7.5 dB
Ref 30.00 dBm

10 dB/div
Log

Mkr1 1.755 000 GHz
-29.769 dBm

Center 1.755000 GHz
#Res BW 51 kHz
#VBW 150 kHz*

Span 2.000 MHz
#Sweep 1.00 s (1001 pts)

Auto Tune

Center Freq
1.755000000 GHz

Start Freq
1.754000000 GHz

Stop Freq
1.756000000 GHz

CF Step
200.000 kHz
Man

Freq Offset
0 Hz

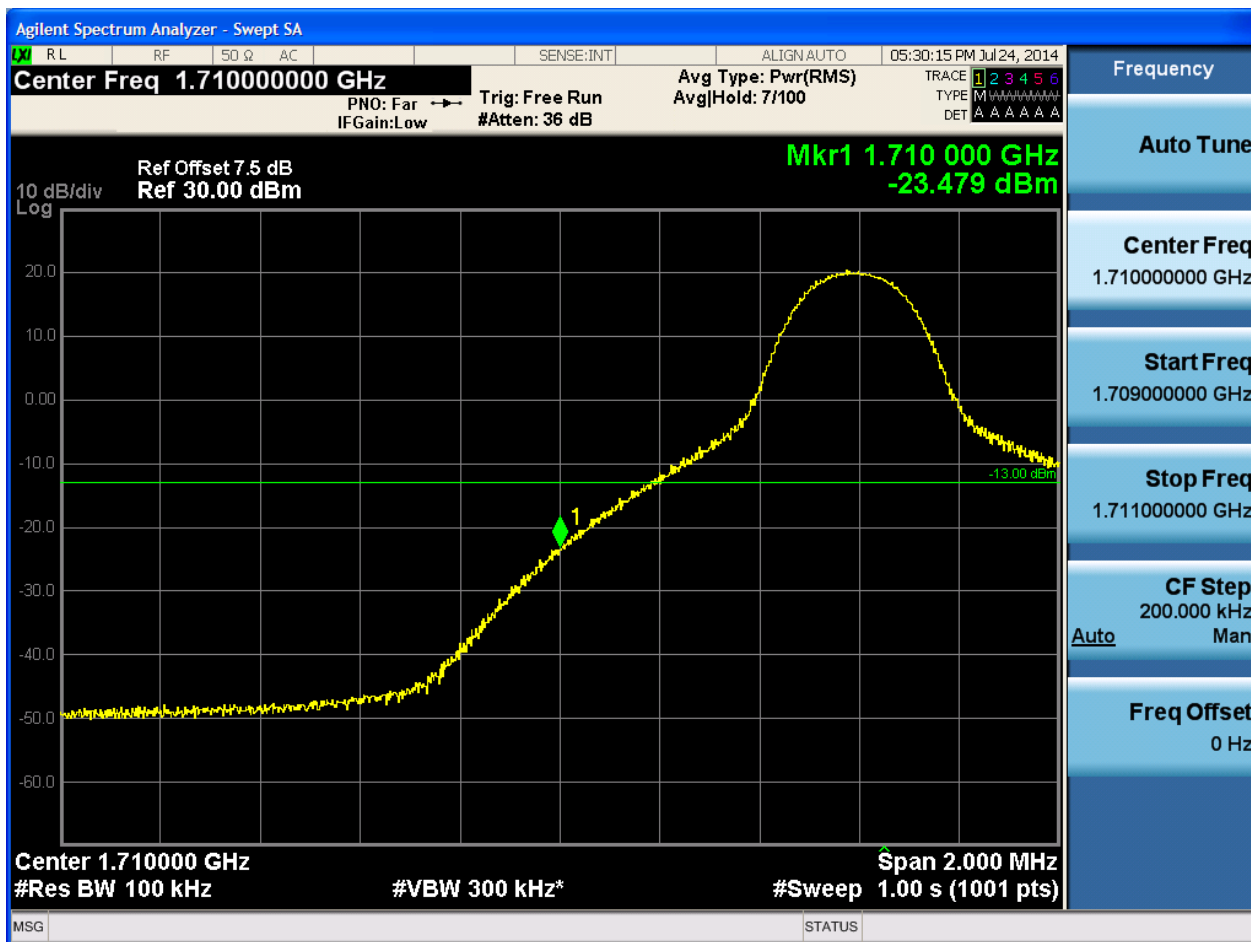
The image shows a screenshot of an Agilent Spectrum Analyzer. The main display is a log-linear plot of power spectral density. The horizontal axis represents frequency, with a center frequency of 1.755000000 GHz and a span of 2.000 MHz. The vertical axis represents power in dBm, ranging from -60.0 to 20.0. A yellow trace shows a signal that is relatively flat at approximately 0 dBm from 1.754 GHz to 1.755 GHz, then drops sharply to about -35 dBm by 1.756 GHz. A green horizontal line is drawn at -13.00 dBm. A green marker labeled '1' is placed on the falling edge of the signal at 1.755000 GHz, indicating a power level of -29.769 dBm. The top of the screen displays various settings: Center Freq 1.755000000 GHz, Ref Offset 7.5 dB, Ref 30.00 dBm, 10 dB/div, Log, Mkr1 1.755 000 GHz, -29.769 dBm, Center 1.755000 GHz, #Res BW 51 kHz, #VBW 150 kHz*, Span 2.000 MHz, #Sweep 1.00 s (1001 pts). The right side of the screen shows a control panel with buttons for Auto Tune, Center Freq, Start Freq, Stop Freq, CF Step, and Freq Offset.



5.1.1.2.4 Test Bandwidth = 10

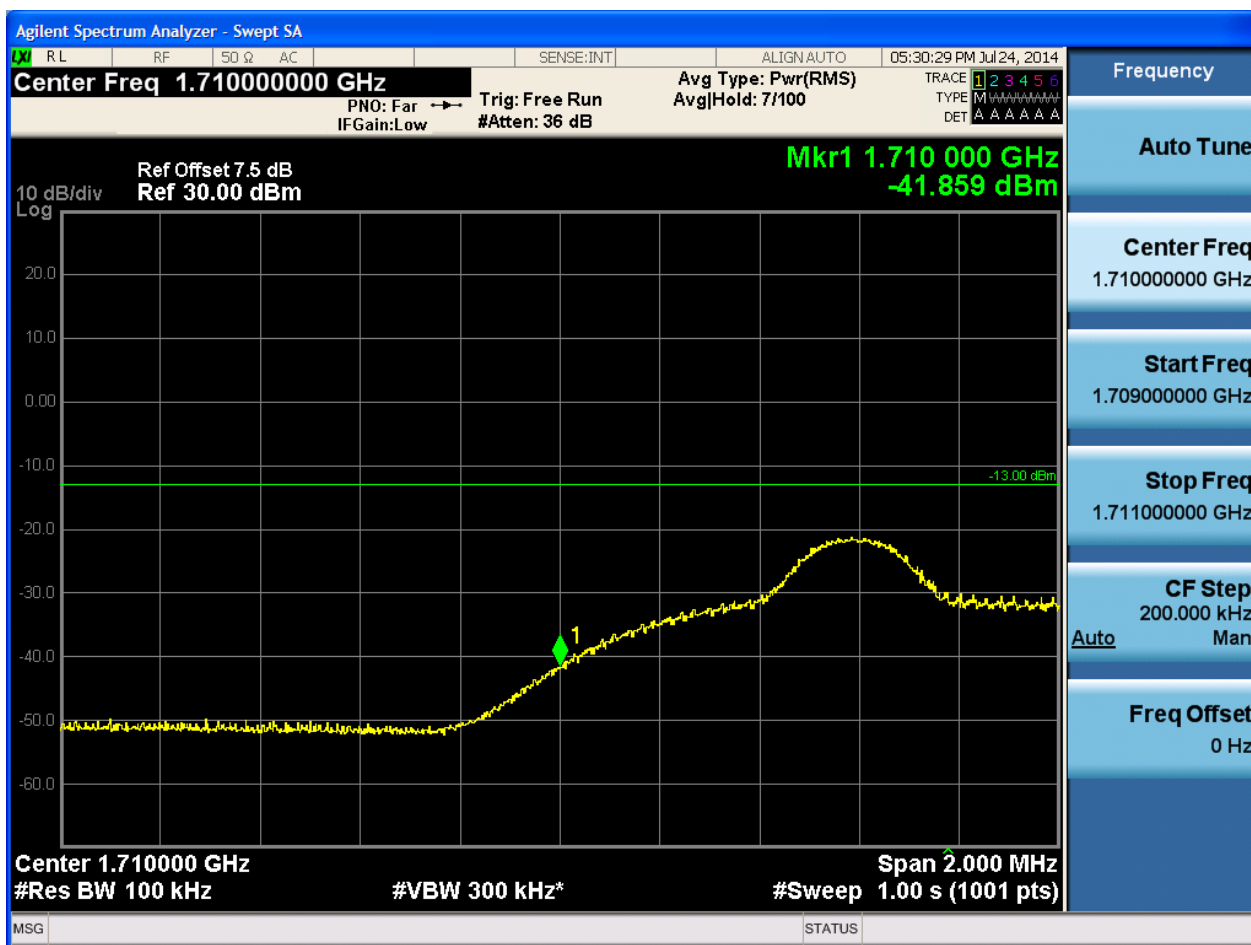
5.1.1.2.4.1 Test Channel = LCH

5.1.1.2.4.1.1 Test RB = RB1#0



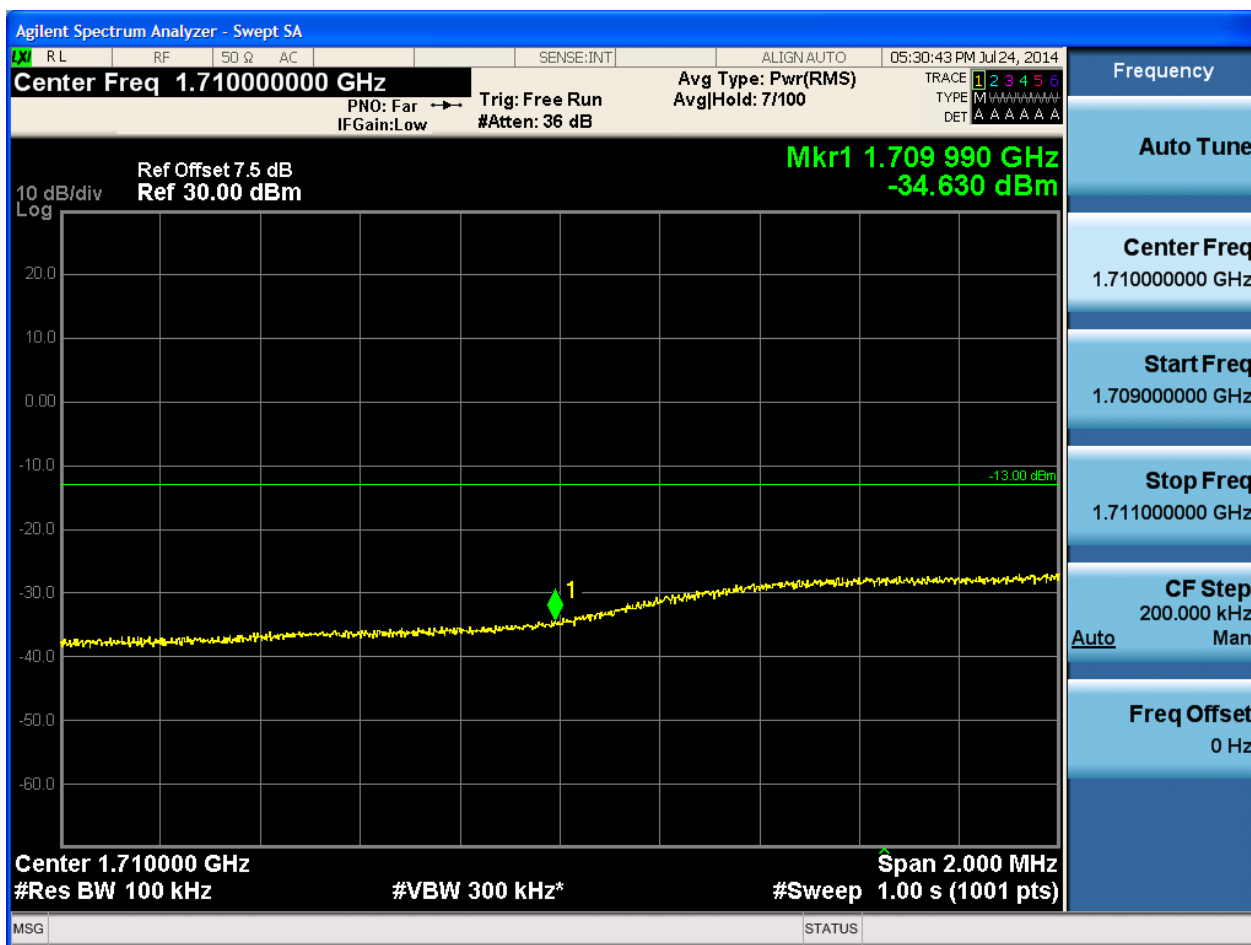


5.1.1.2.4.1.2 Test RB = RB1#49





5.1.1.2.4.1.3 Test RB = RB25#13





5.1.1.2.4.1.4 Test RB = RB50#0



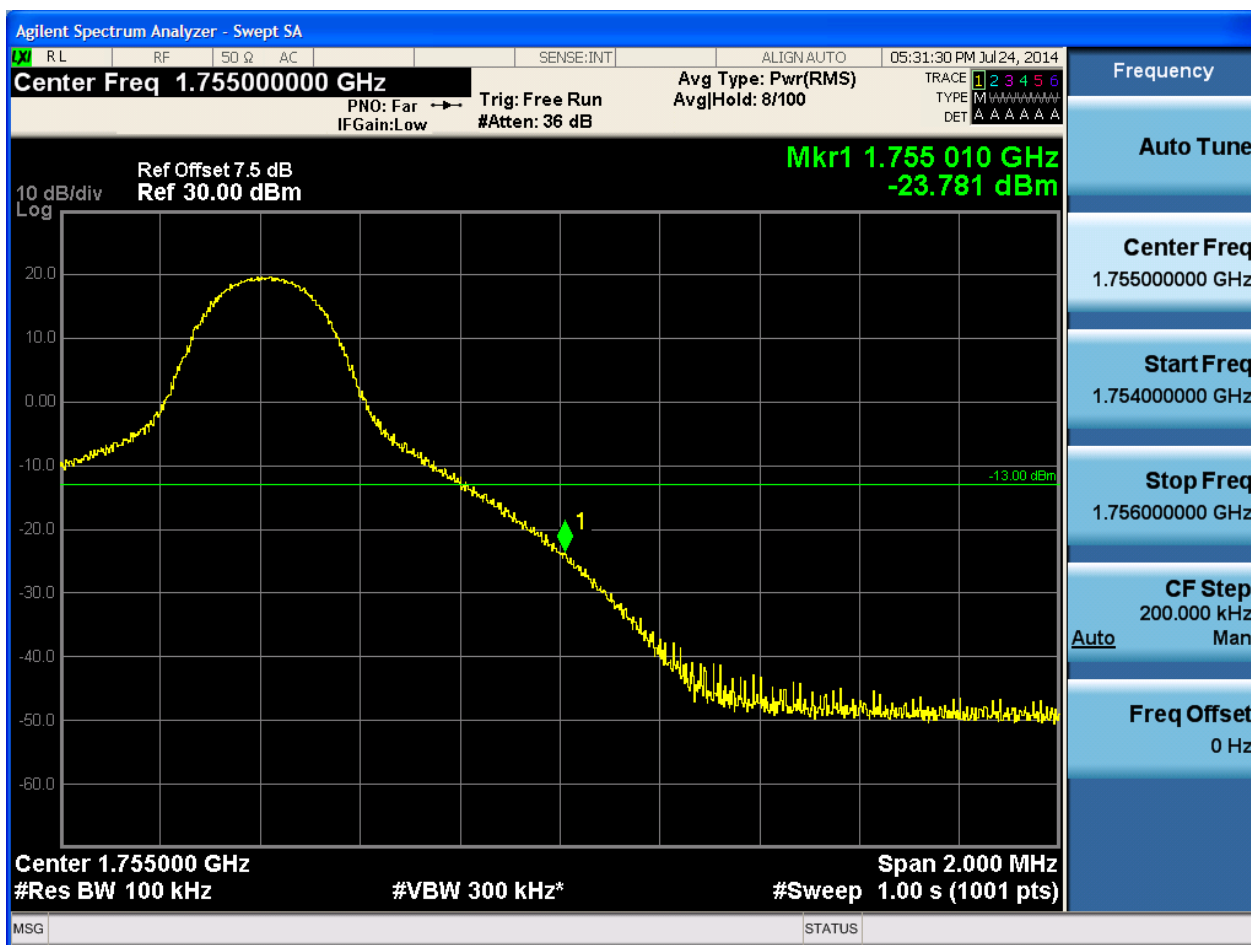
5.1.1.2.4.2 Test Channel = HCH

5.1.1.2.4.2.1 Test RB = RB1#0





5.1.1.2.4.2.2 Test RB = RB1#49





5.1.1.2.4.2.3 Test RB = RB25#13





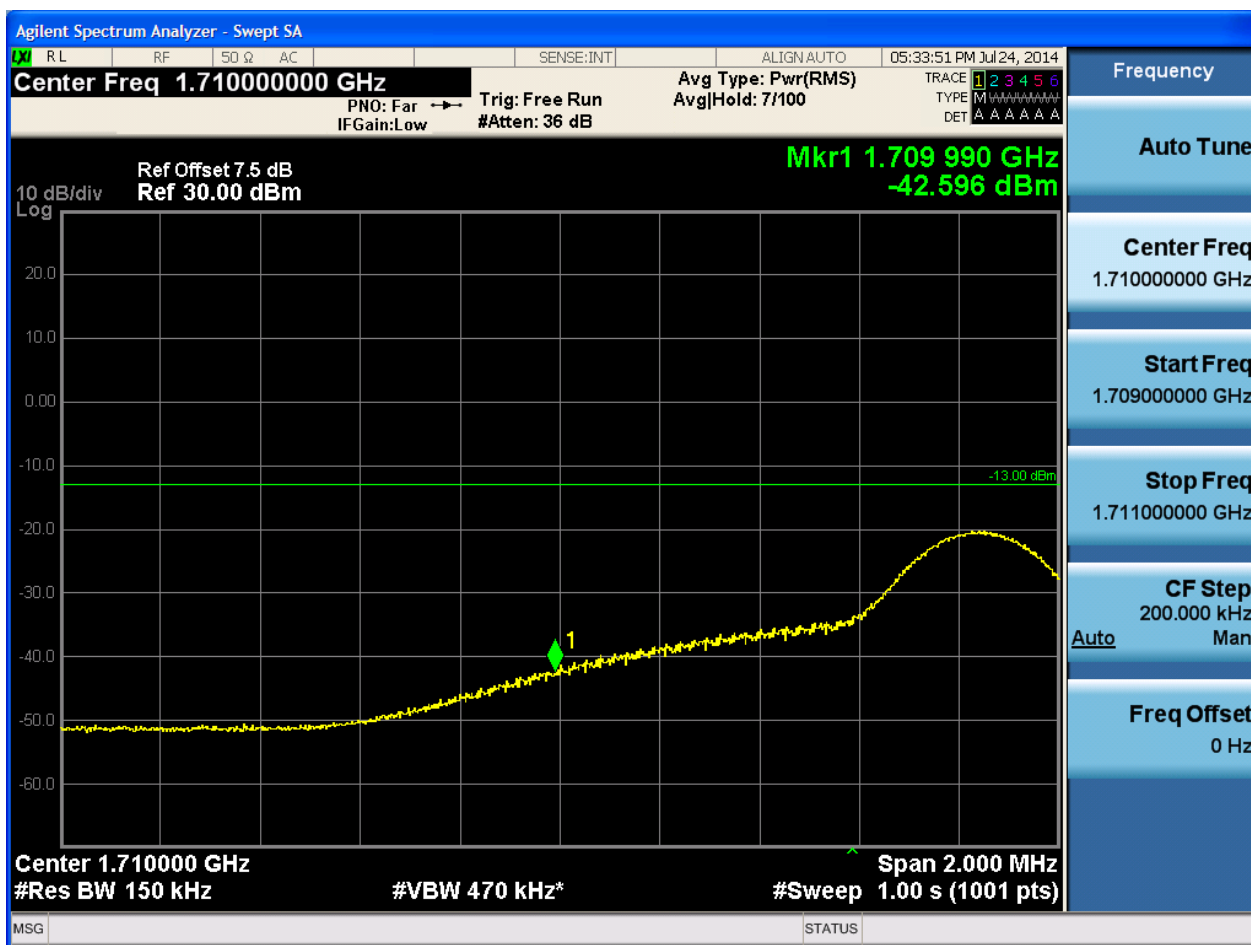
5.1.1.2.4.2.4 Test RB = RB50#0





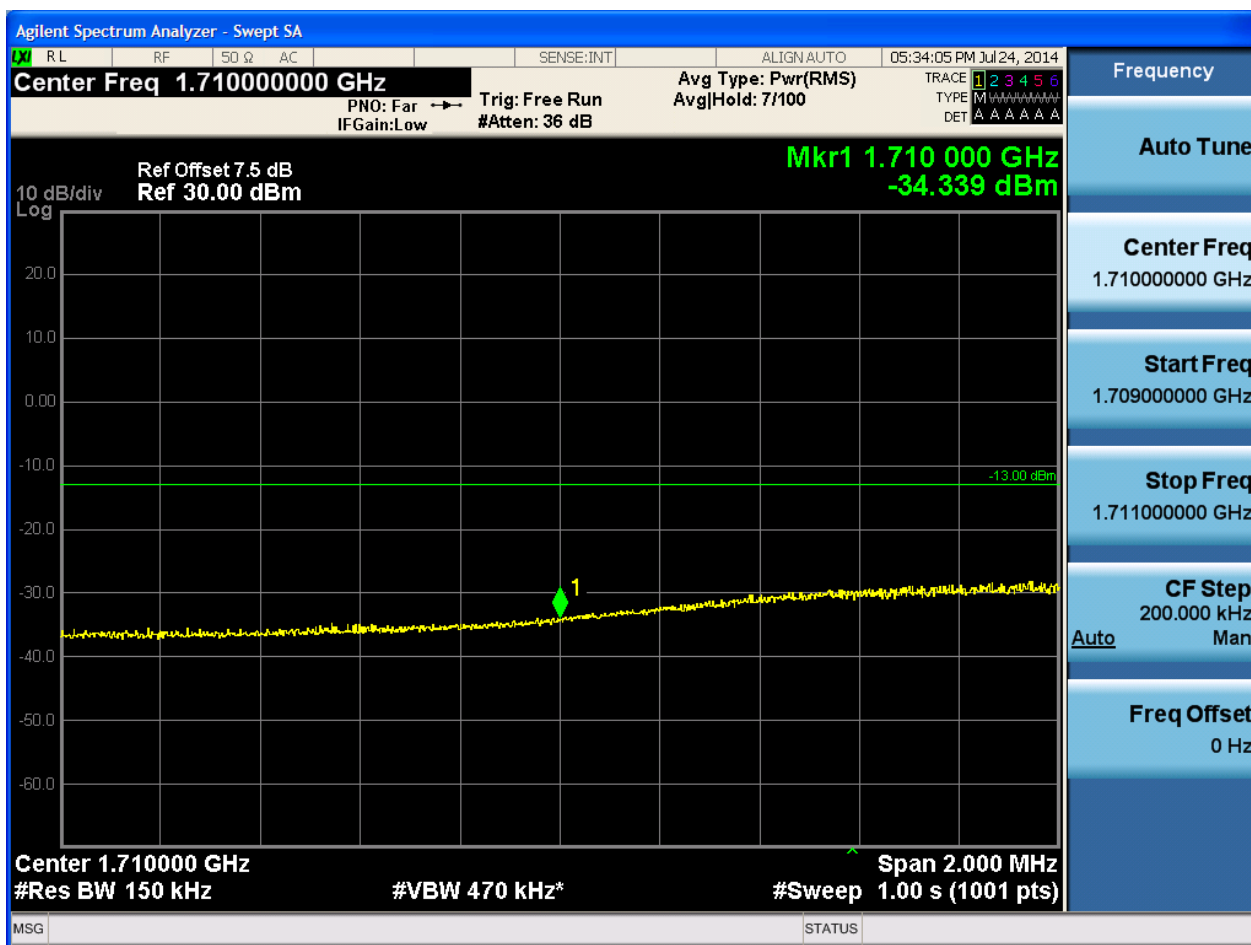


5.1.1.2.5.1.2 Test RB = RB1#74





5.1.1.2.5.1.3 Test RB = RB38#19





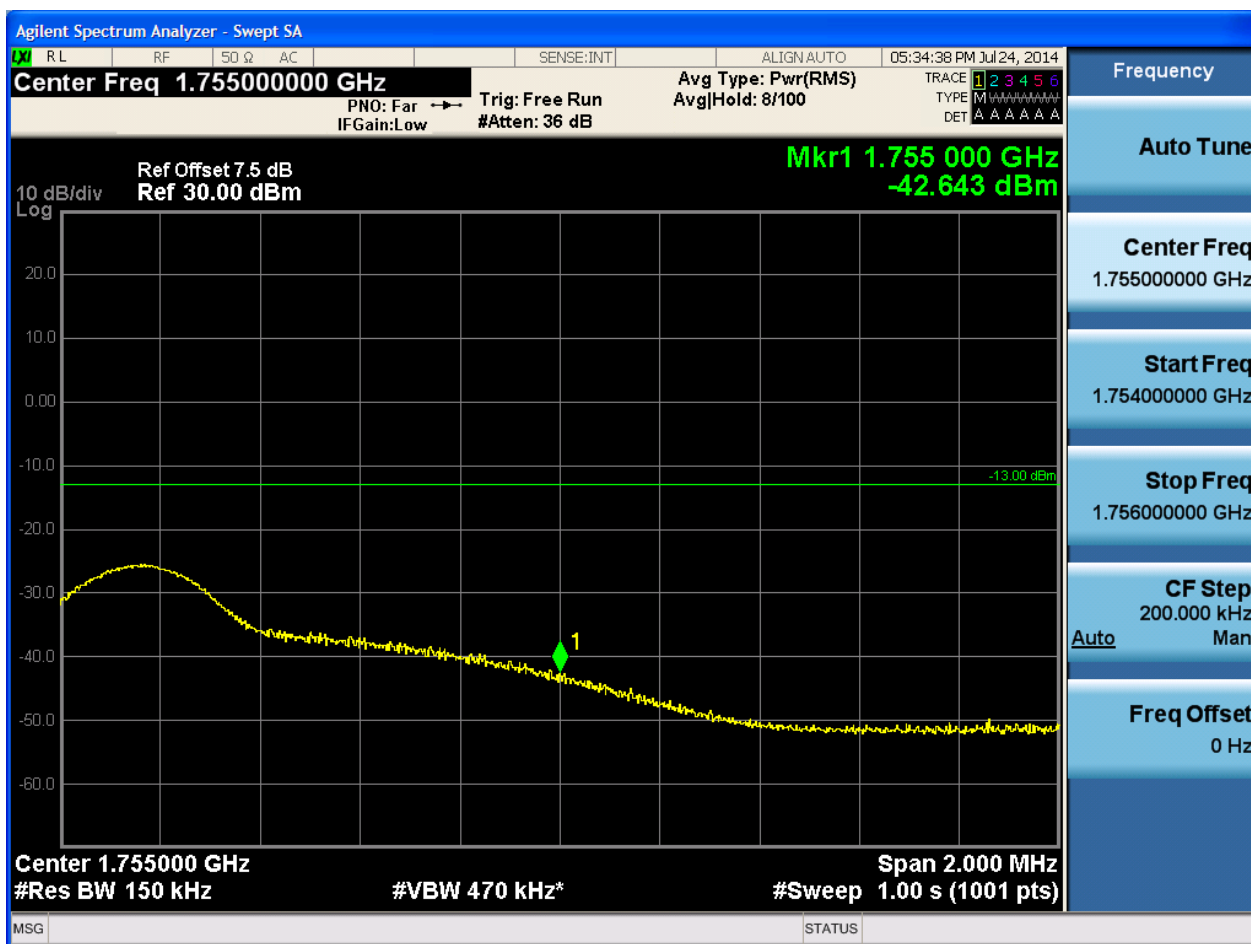
5.1.1.2.5.1.4 Test RB = RB75#0





5.1.1.2.5.2 Test Channel = HCH

5.1.1.2.5.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

Center Freq 1.755000000 GHz

Ref Offset 7.5 dB
Ref 30.00 dBm

10 dB/div
Log

Mkr1 1.755 010 GHz
-22.018 dBm

Center 1.755000 GHz
#Res BW 150 kHz
#VBW 470 kHz*

Span 2.000 MHz
#Sweep 1.00 s (1001 pts)

Auto Tune

Center Freq
1.755000000 GHz

Start Freq
1.754000000 GHz

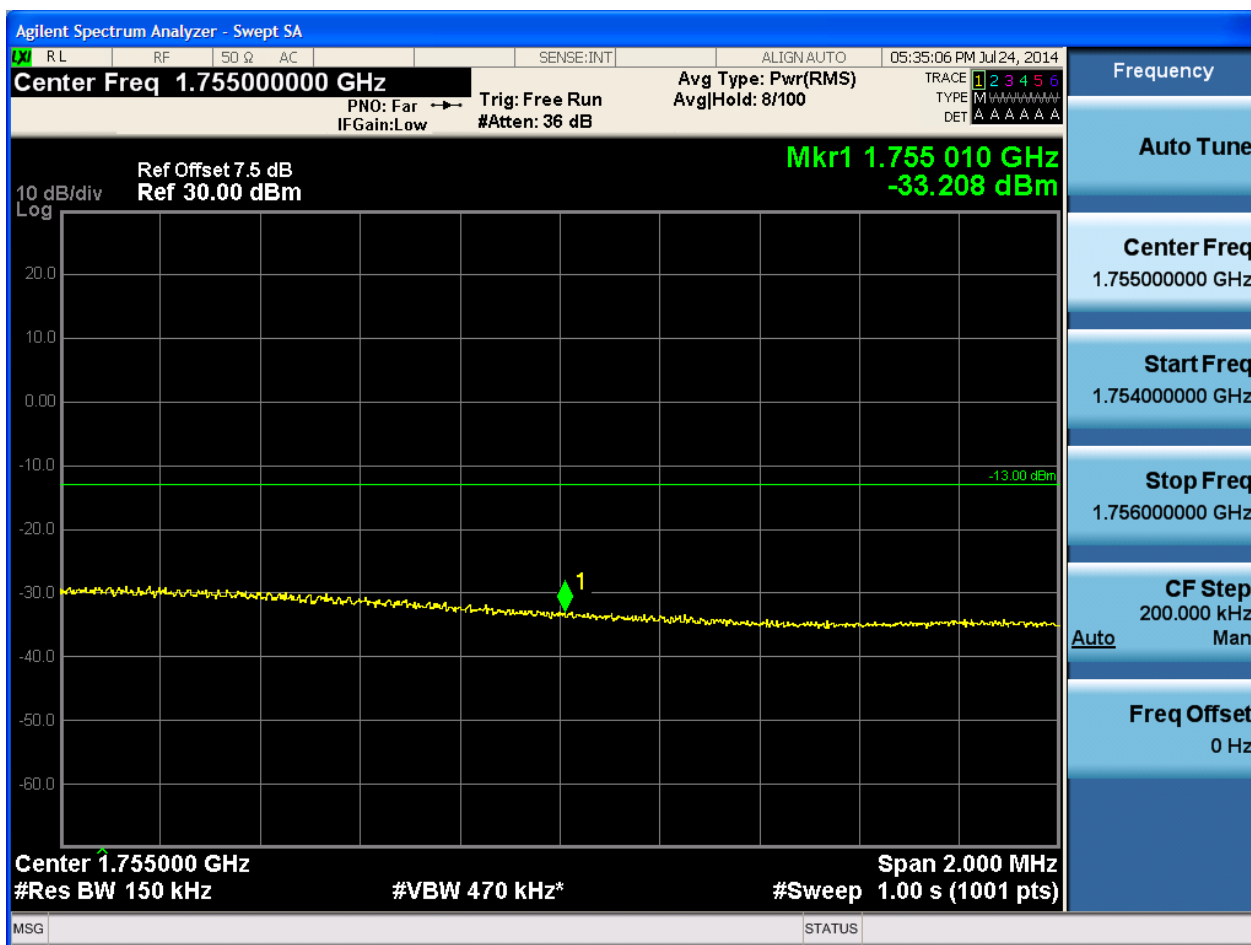
Stop Freq
1.756000000 GHz

CF Step
200.000 kHz
Man

Freq Offset
0 Hz



5.1.1.2.5.2.3 Test RB = RB38#19





5.1.1.2.5.2.4 Test RB = RB75#0





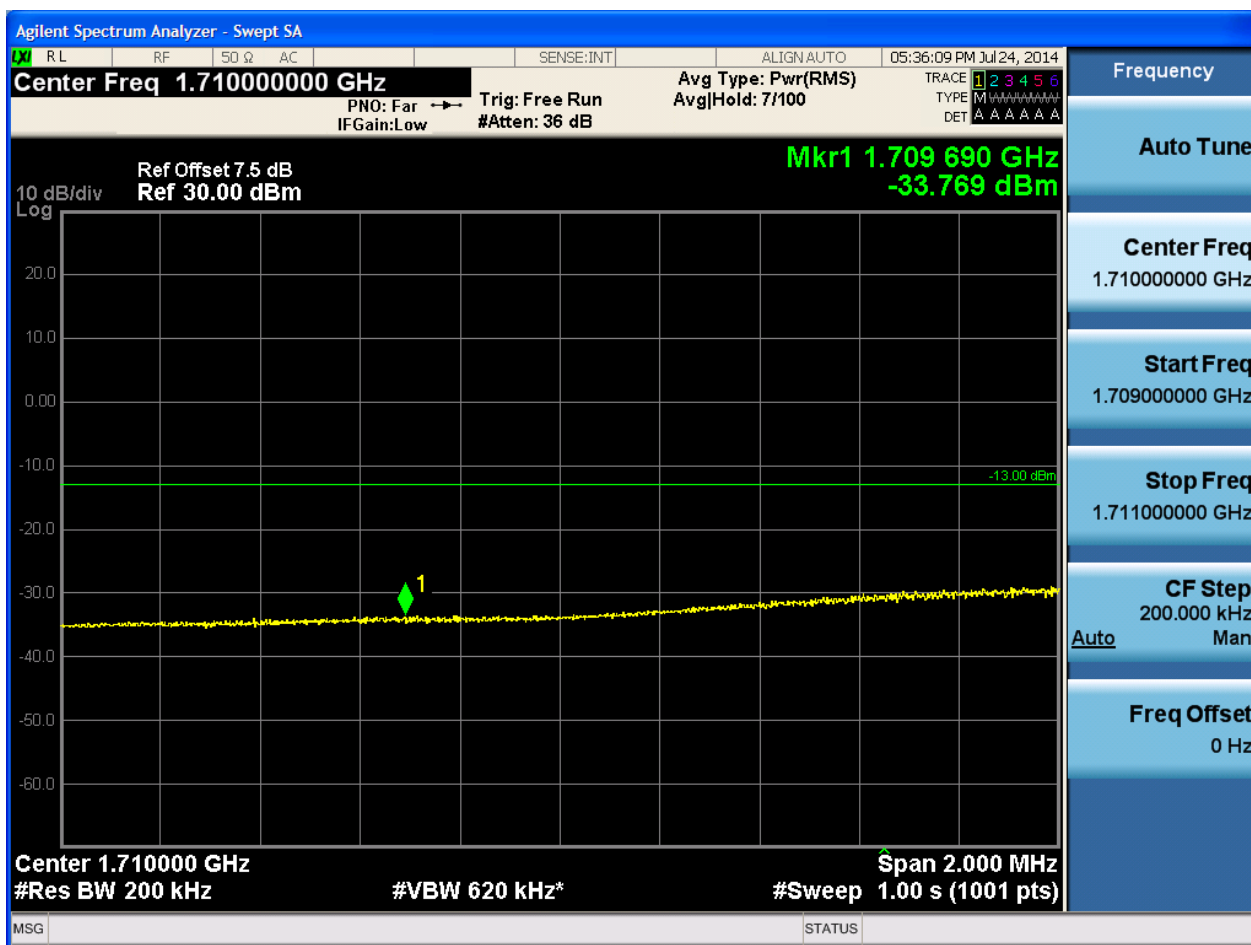


5.1.1.2.6.1.2 Test RB = RB1#99





5.1.1.2.6.1.3 Test RB = RB50#25





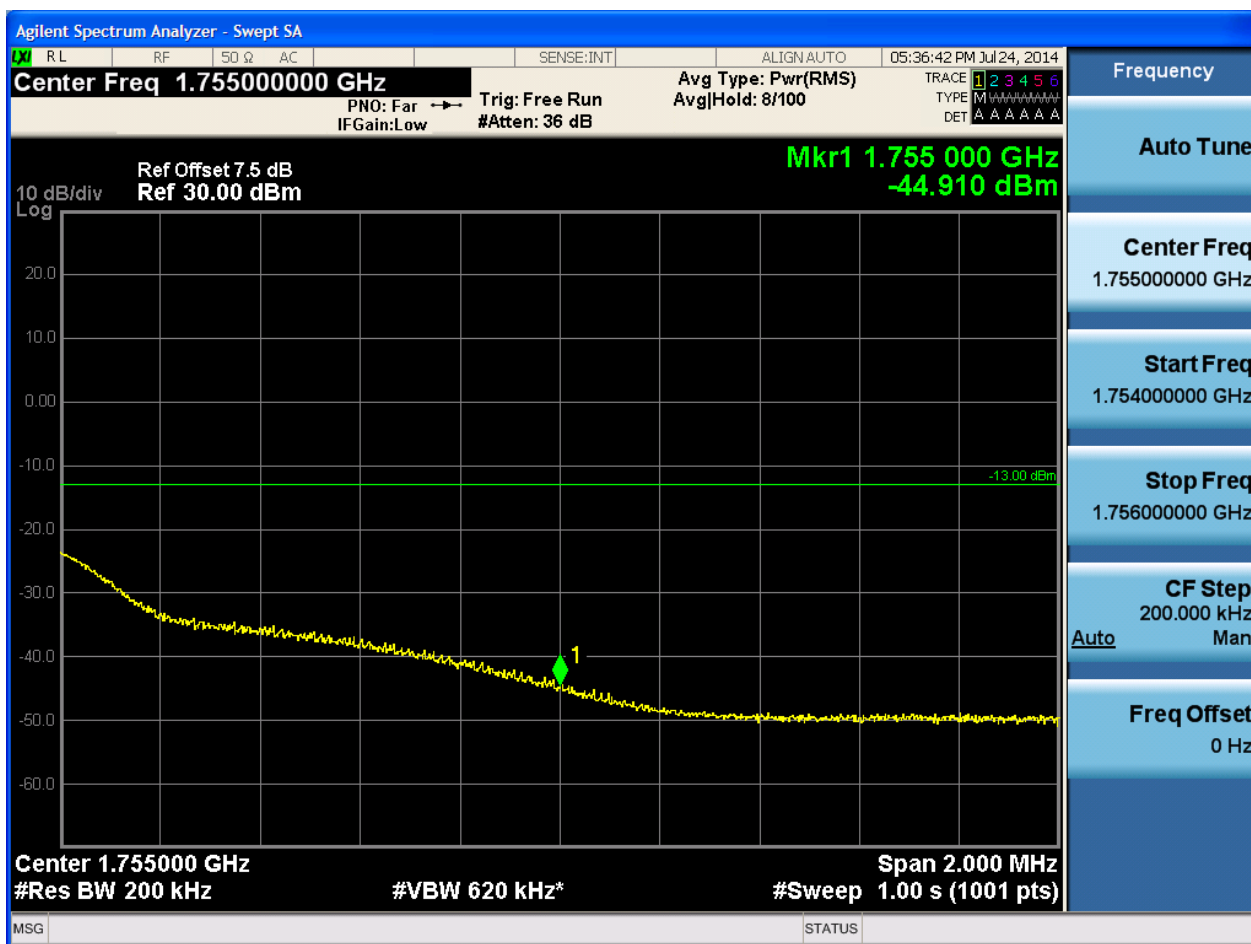
5.1.1.2.6.1.4 Test RB = RB100#0





5.1.1.2.6.2 Test Channel = HCH

5.1.1.2.6.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

Center Freq 1.755000000 GHz

Ref Offset 7.5 dB
Ref 30.00 dBm

10 dB/div
Log

Mkr1 1.755 000 GHz
-25.548 dBm

Center 1.755000 GHz
#Res BW 200 kHz
#VBW 620 kHz*

Span 2.000 MHz
#Sweep 1.00 s (1001 pts)

Auto Tune

Center Freq
1.755000000 GHz

Start Freq
1.754000000 GHz

Stop Freq
1.756000000 GHz

CF Step
200.000 kHz
Man

Freq Offset
0 Hz

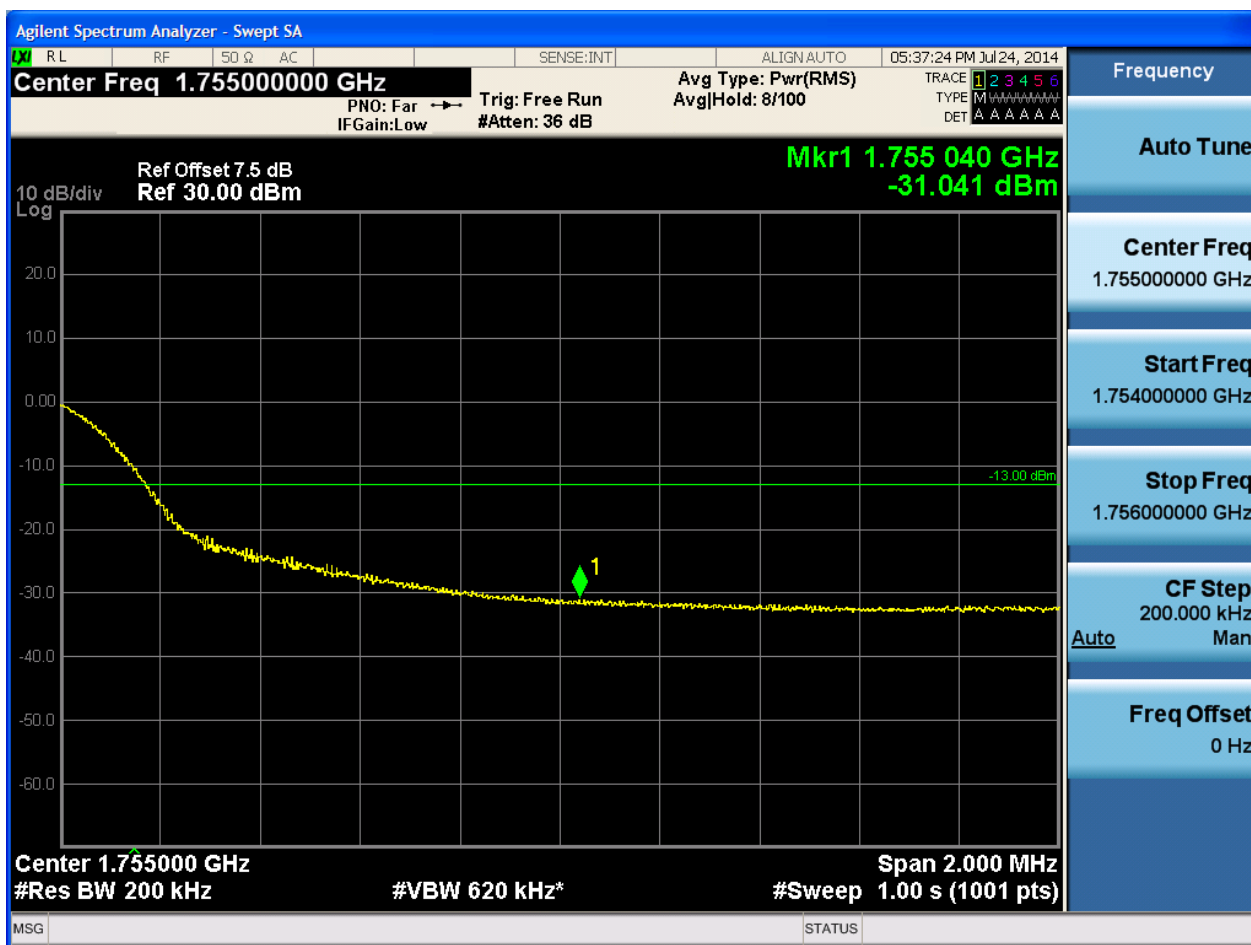


5.1.1.2.6.2.3 Test RB = RB50#25





5.1.1.2.6.2.4 Test RB = RB100#0



6Appendix_F: Spurious Emission at Antenna Terminal

NOTE: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (Span / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Part I - Test Plots

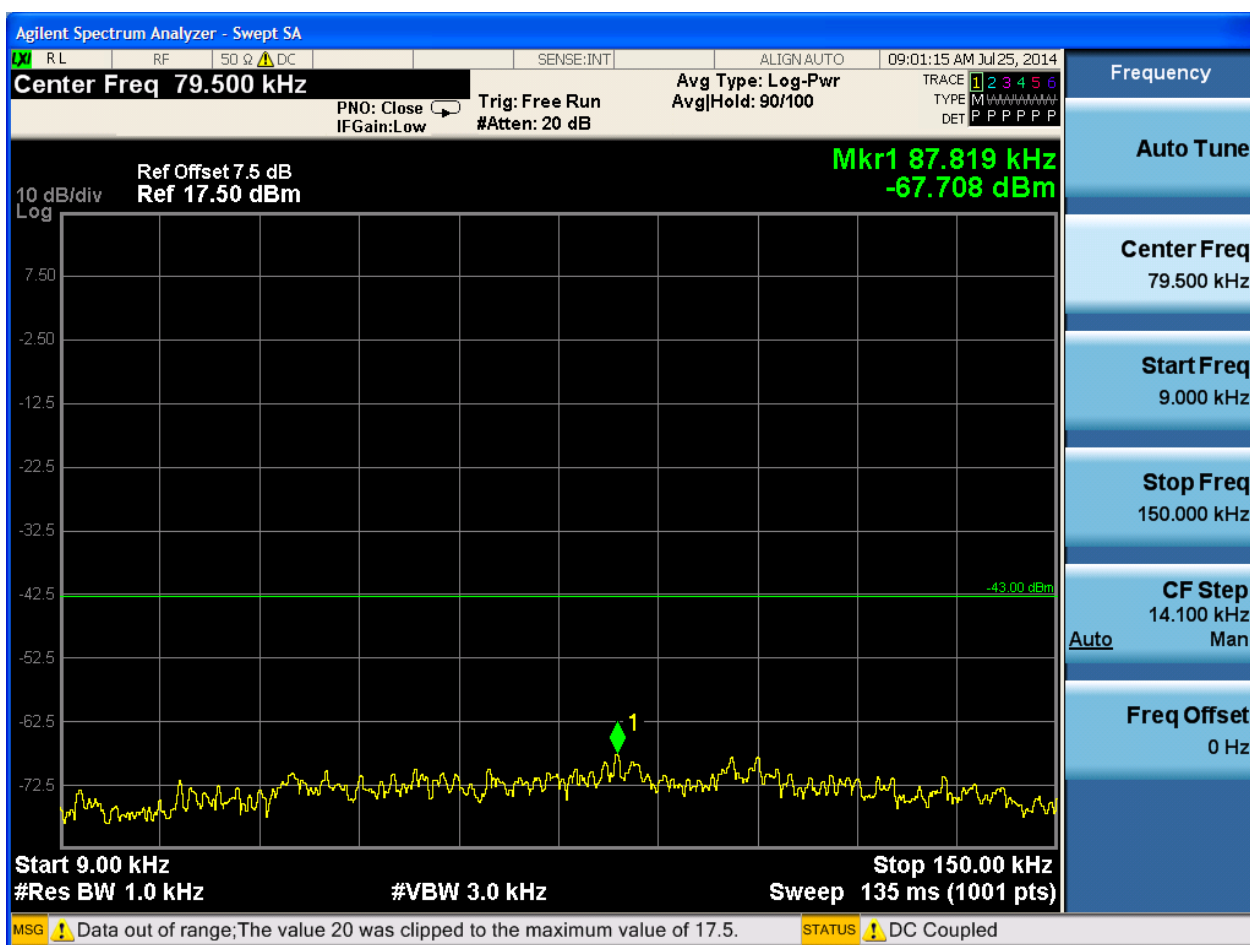
6.3.2 Test Band = BAND4

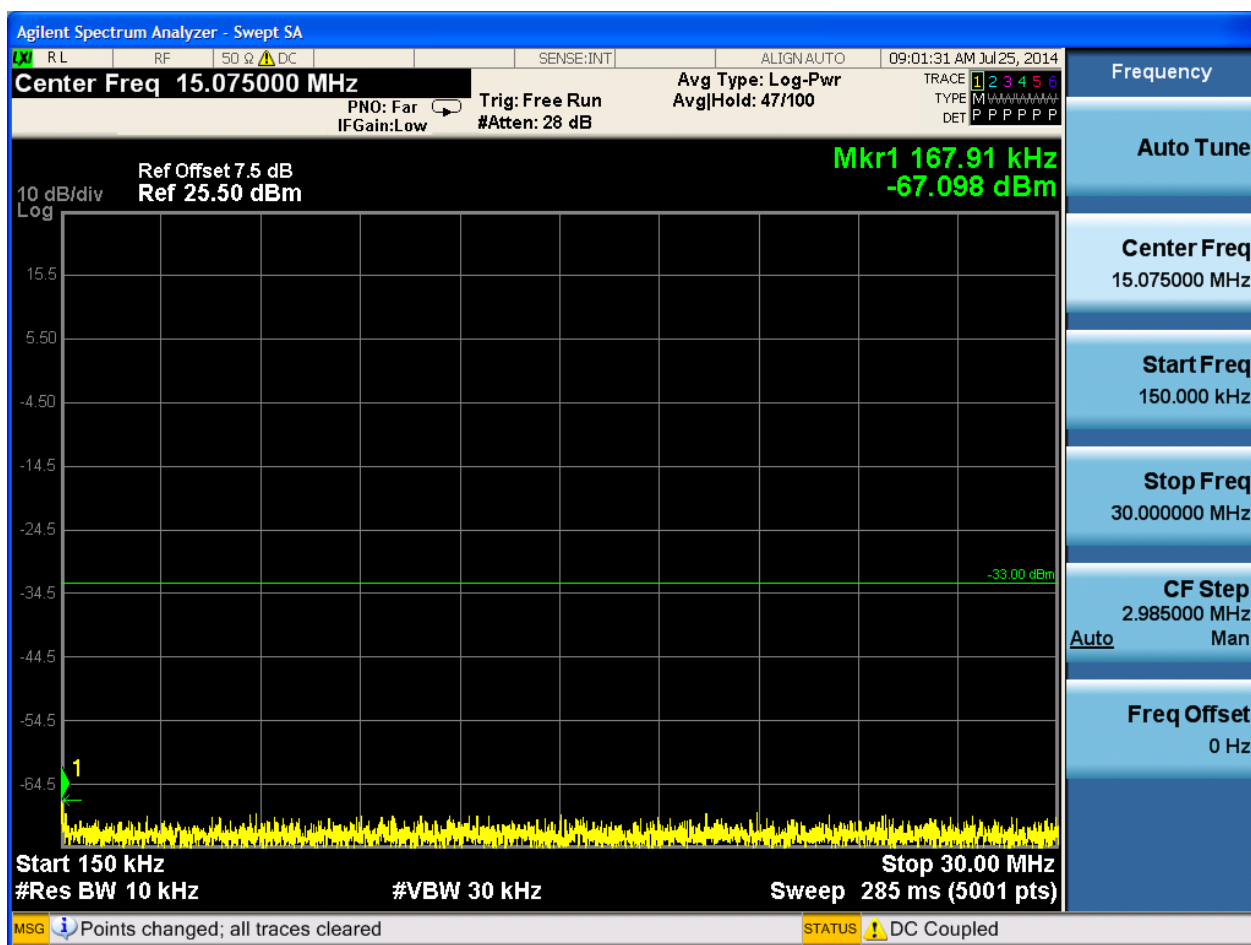
6.3.2.1 Test Mode = LTE/TM1

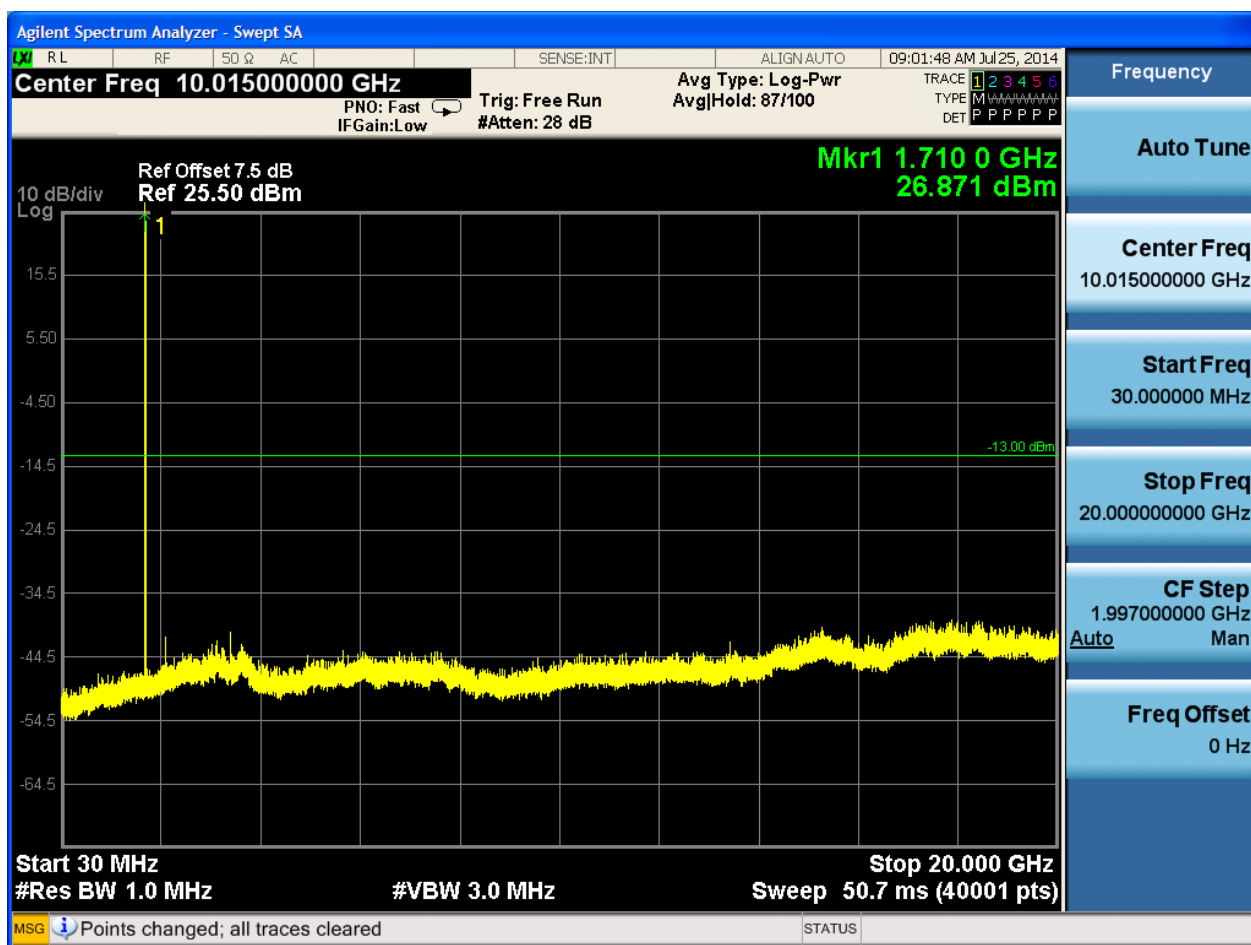
6.3.2.1.1 Test Bandwidth = 1.4

6.3.2.1.1.1 Test Channel = LCH

6.3.2.1.1.1.1 Test RB = RB1#0



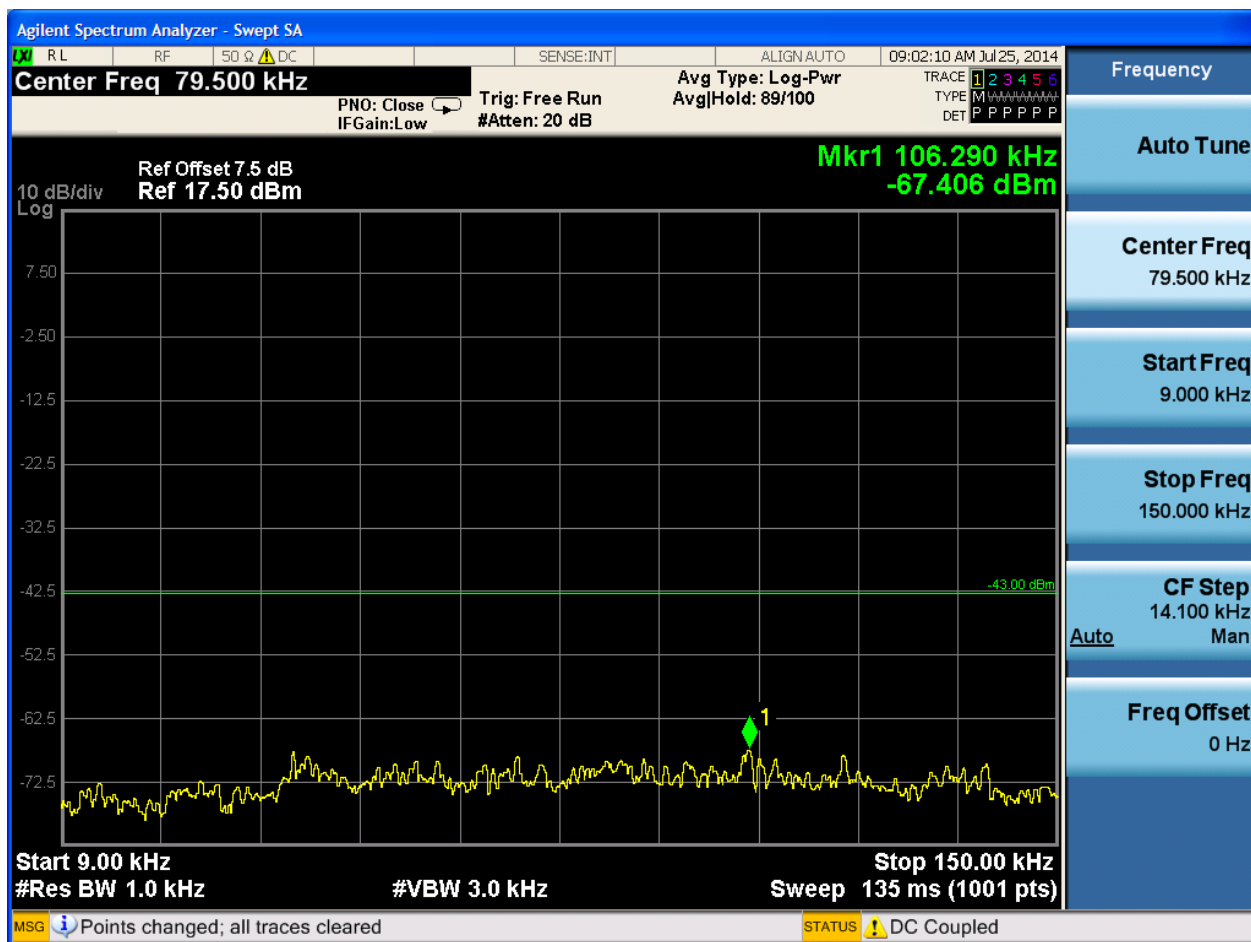


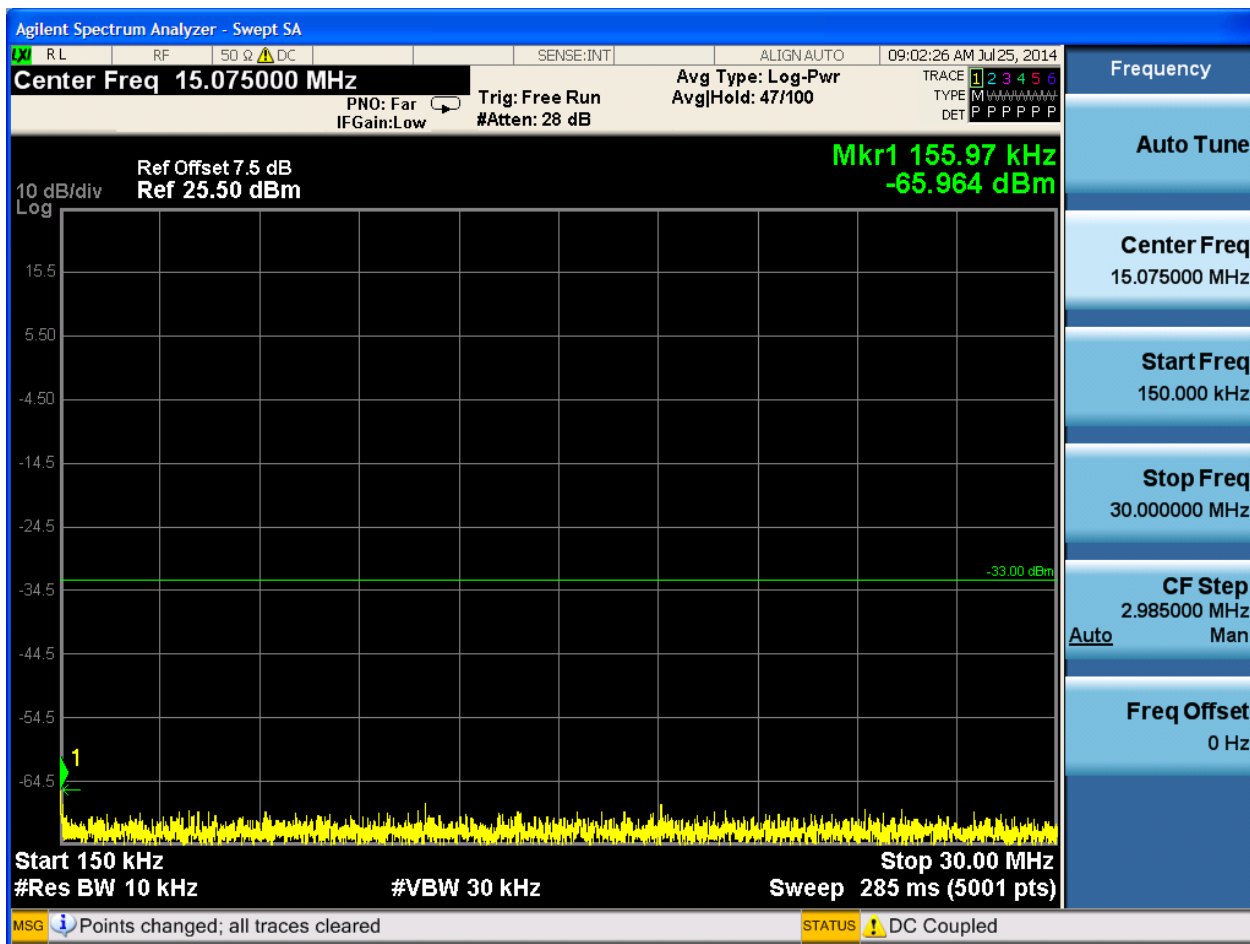


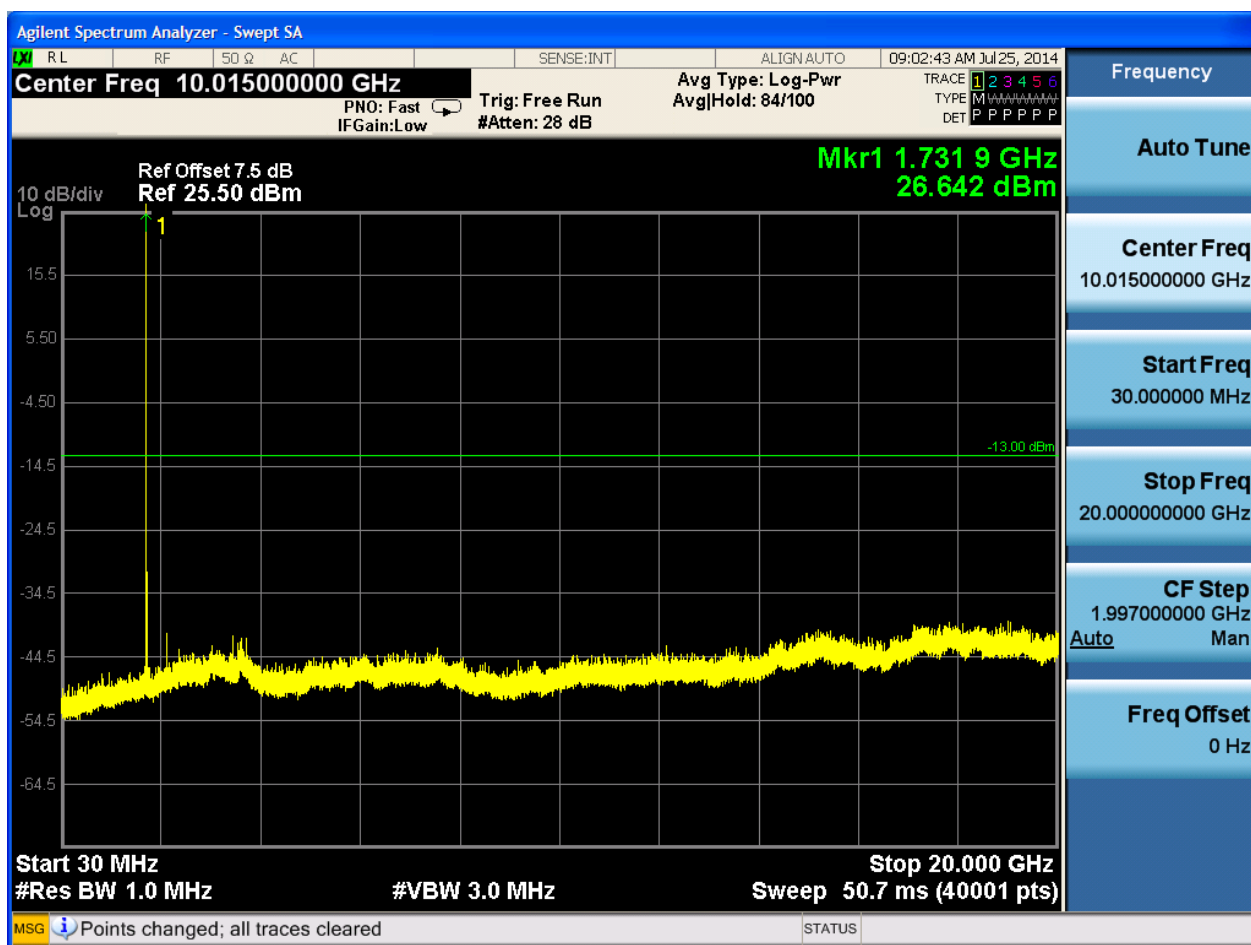


6.3.2.1.1.2 Test Channel = MCH

6.3.2.1.1.2.1 Test RB = RB1#0



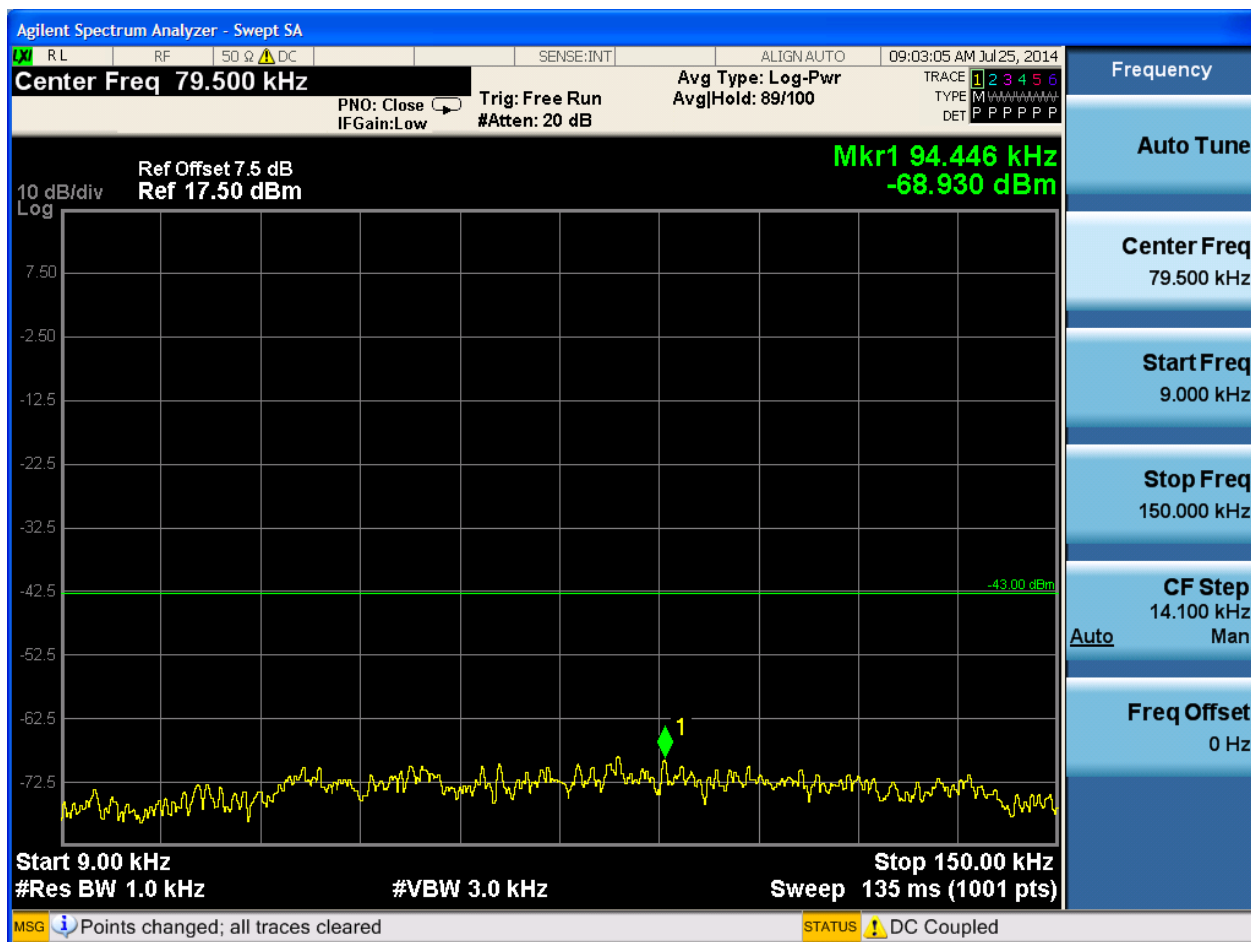


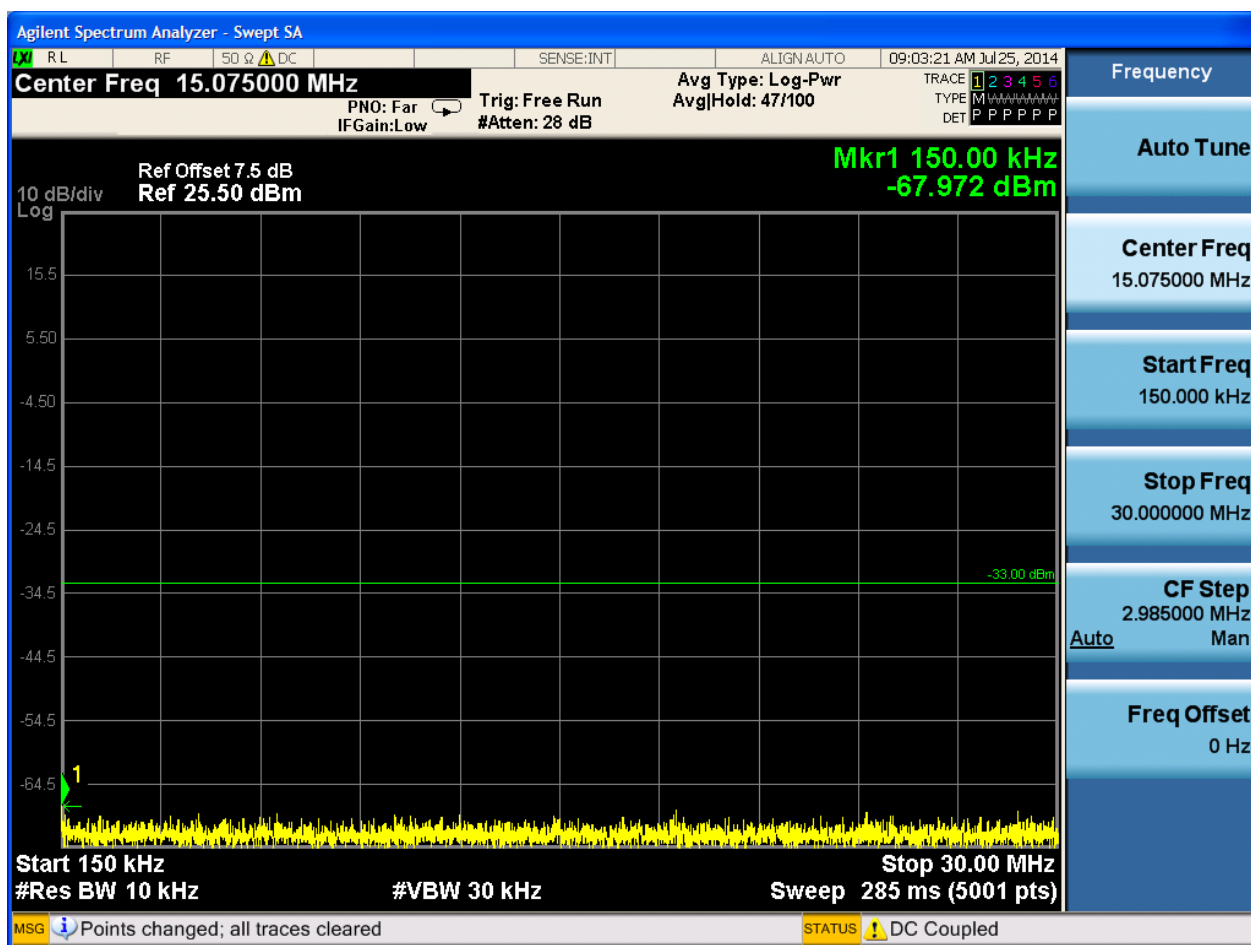


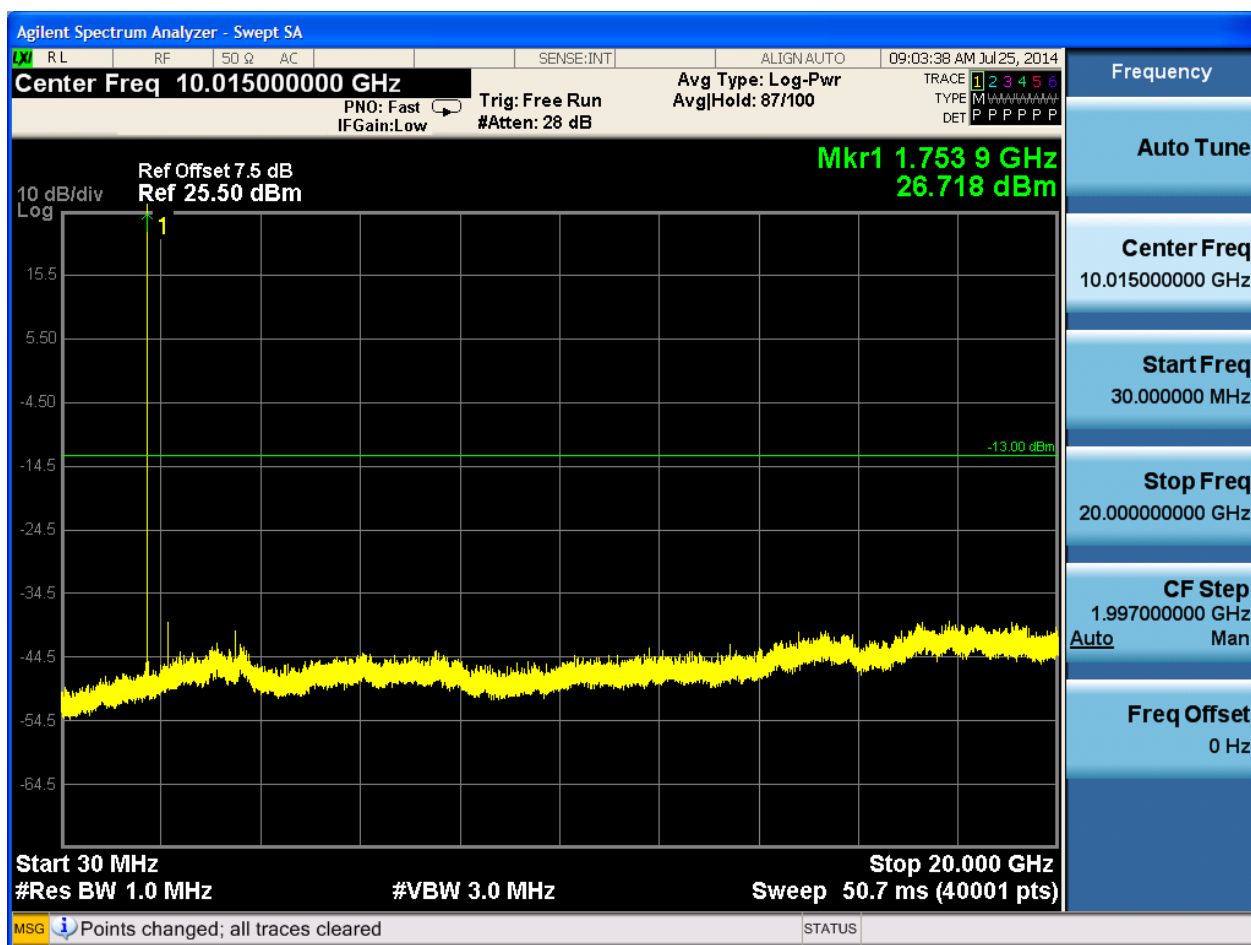


6.3.2.1.1.3 Test Channel = HCH

6.3.2.1.1.3.1 Test RB = RB1#0



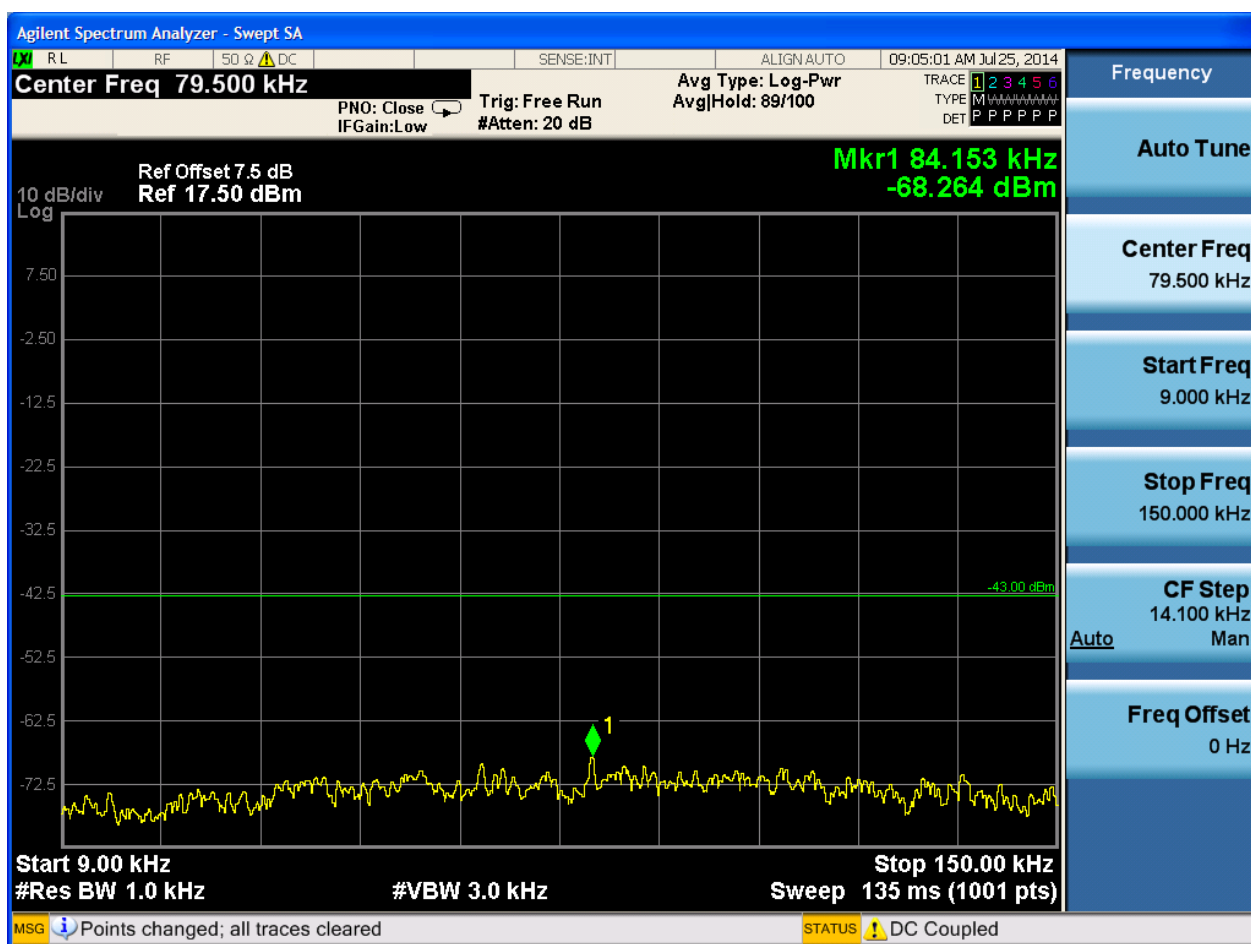


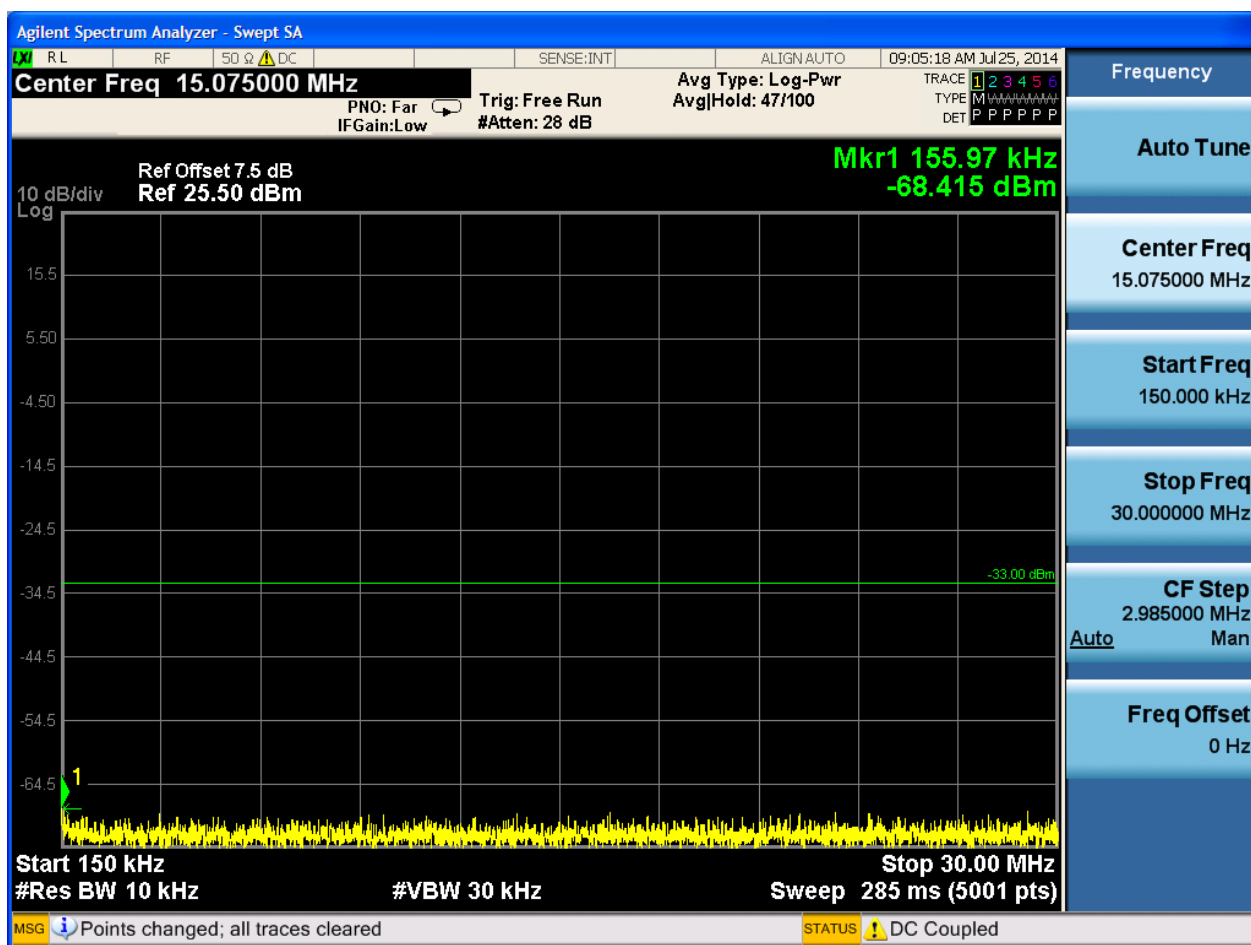


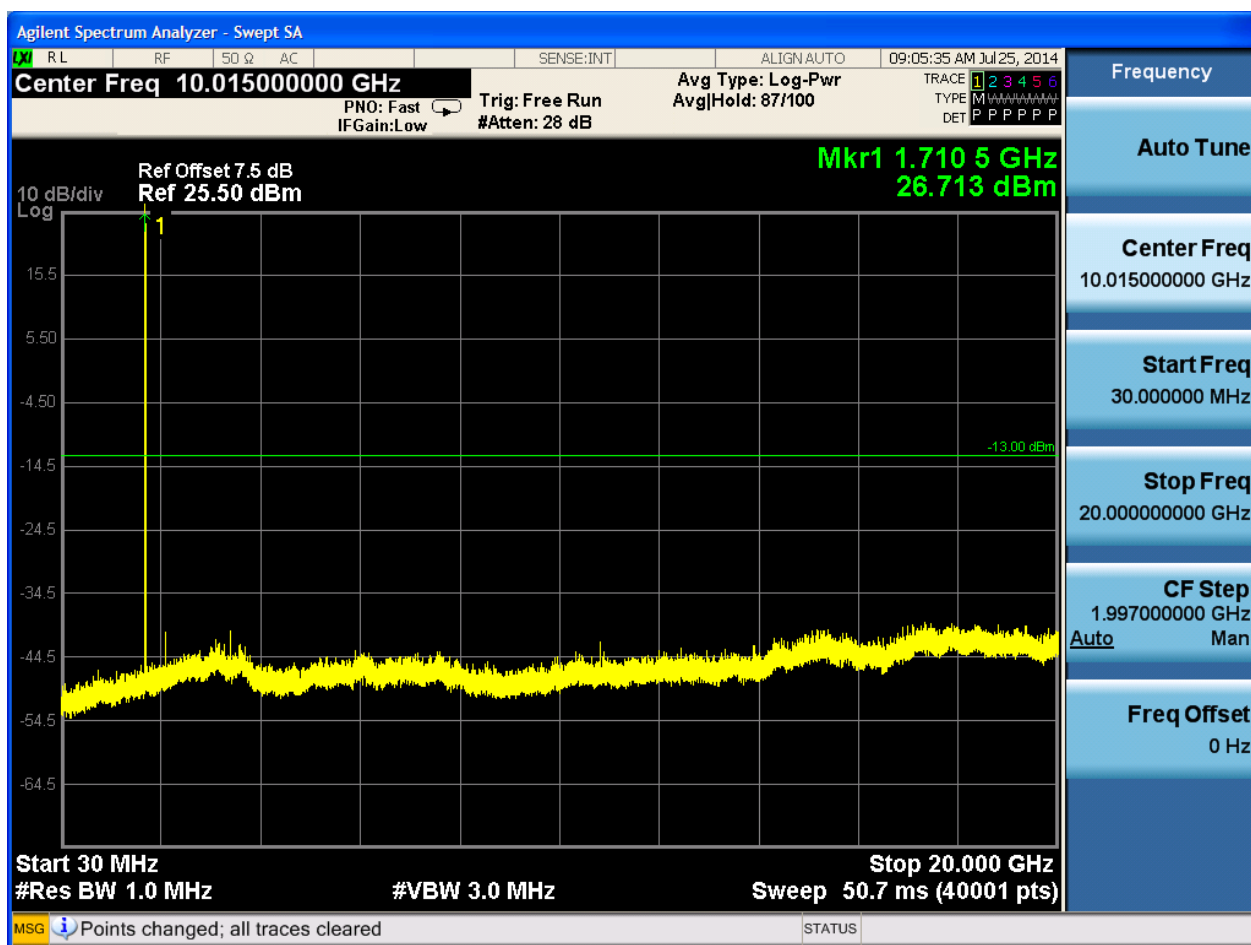
6.3.2.1.2 Test Bandwidth = 3

6.3.2.1.2.1 Test Channel = LCH

6.3.2.1.2.1.1 Test RB = RB1#0

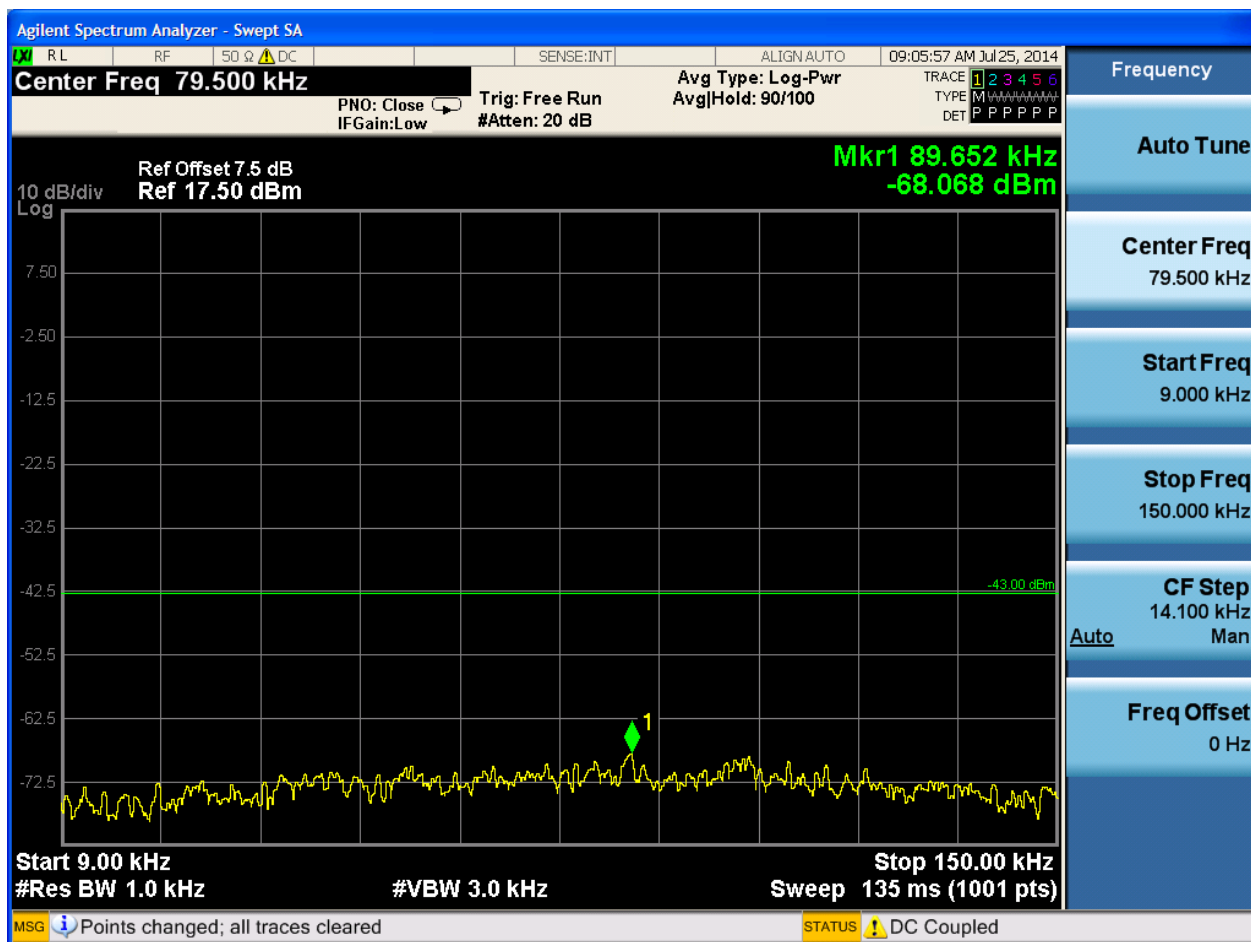


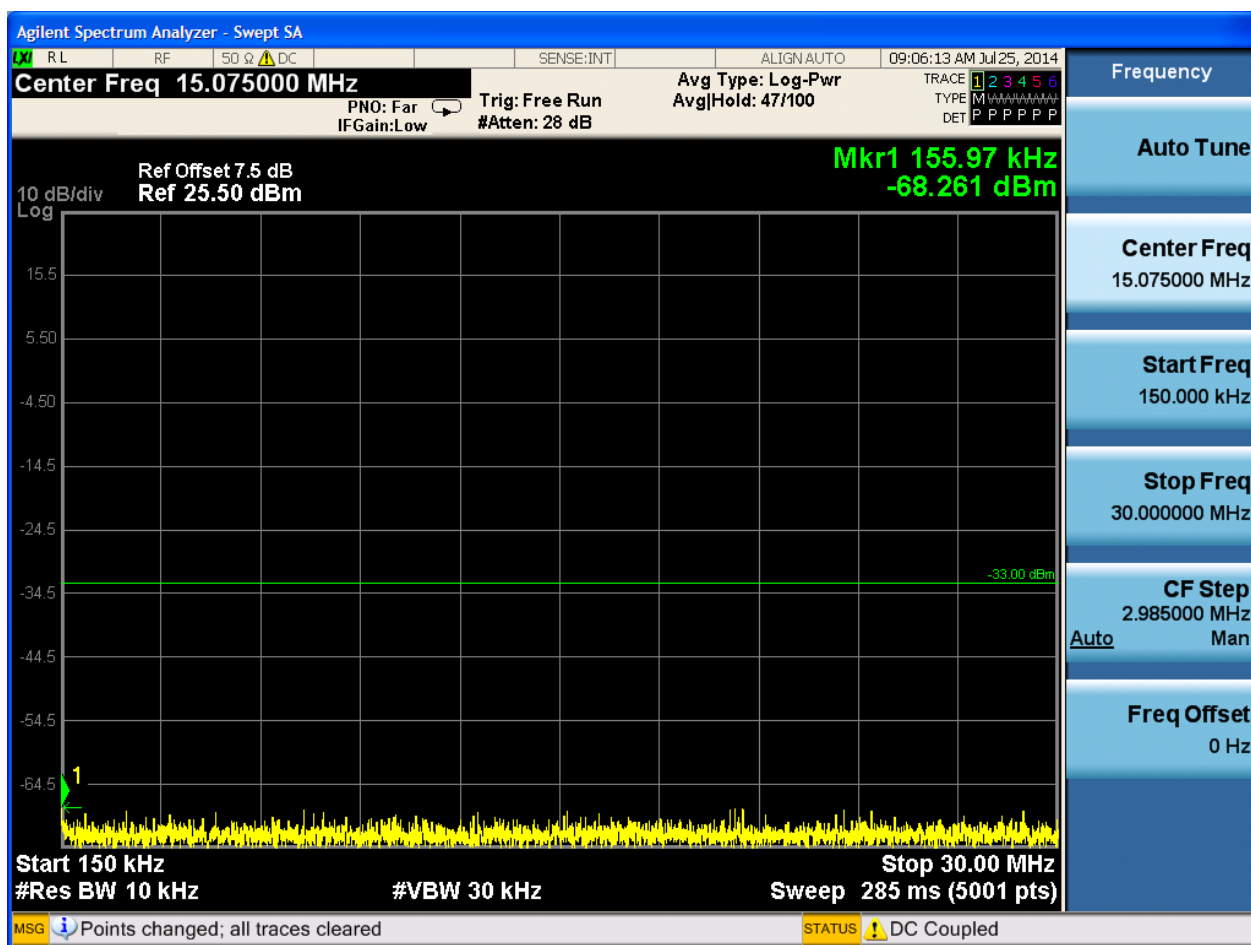


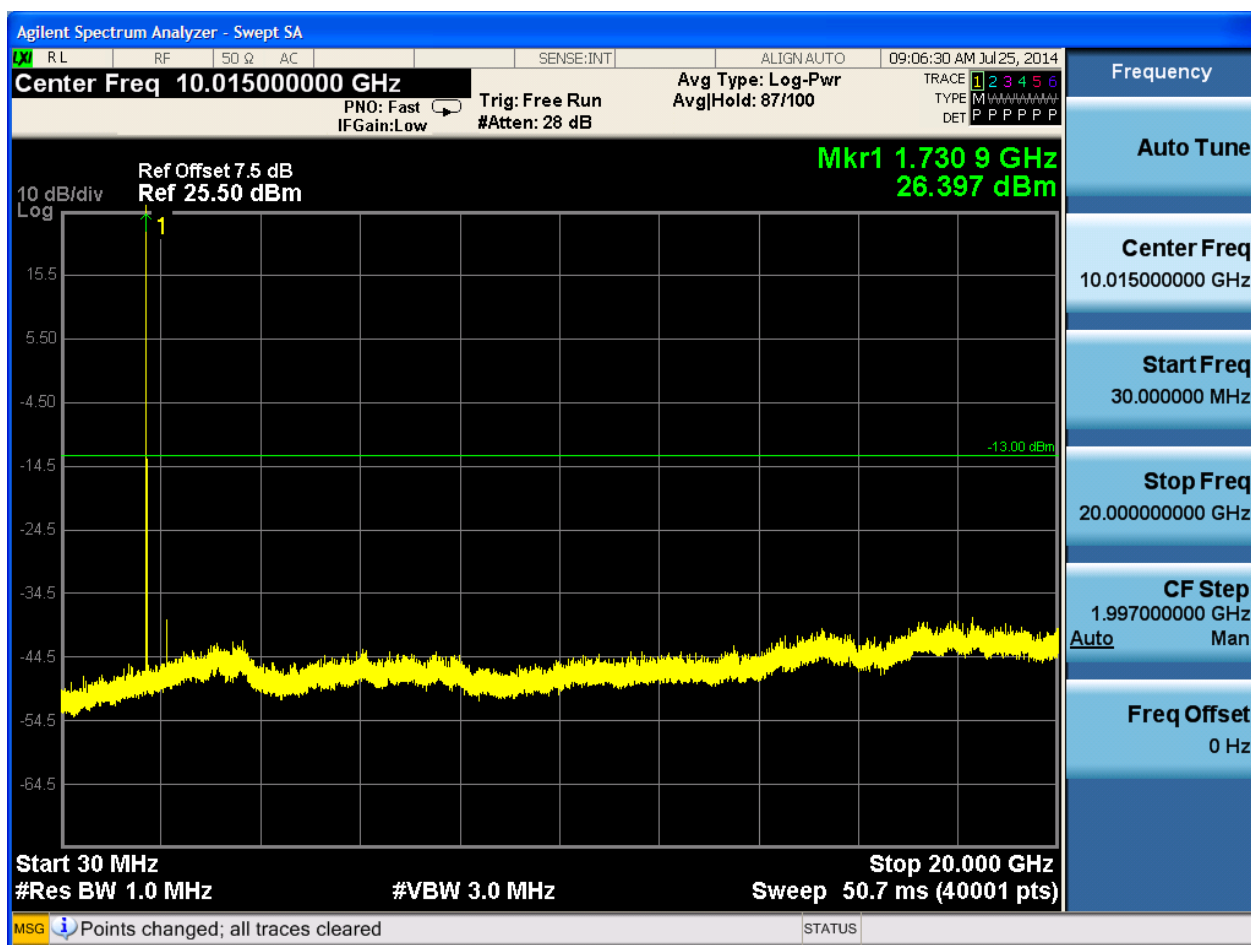


6.3.2.1.2.2 Test Channel = MCH

6.3.2.1.2.2.1 Test RB = RB1#0



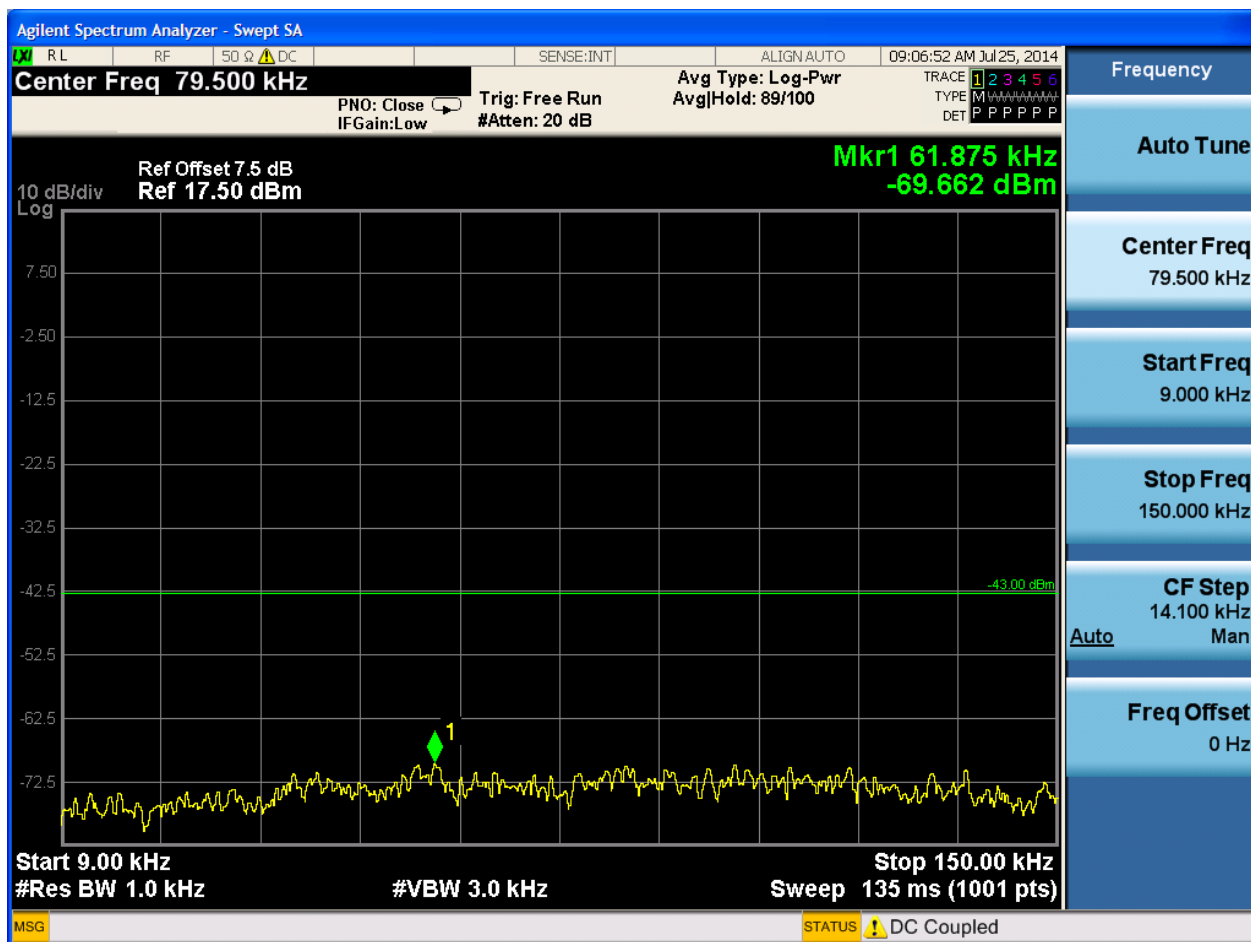


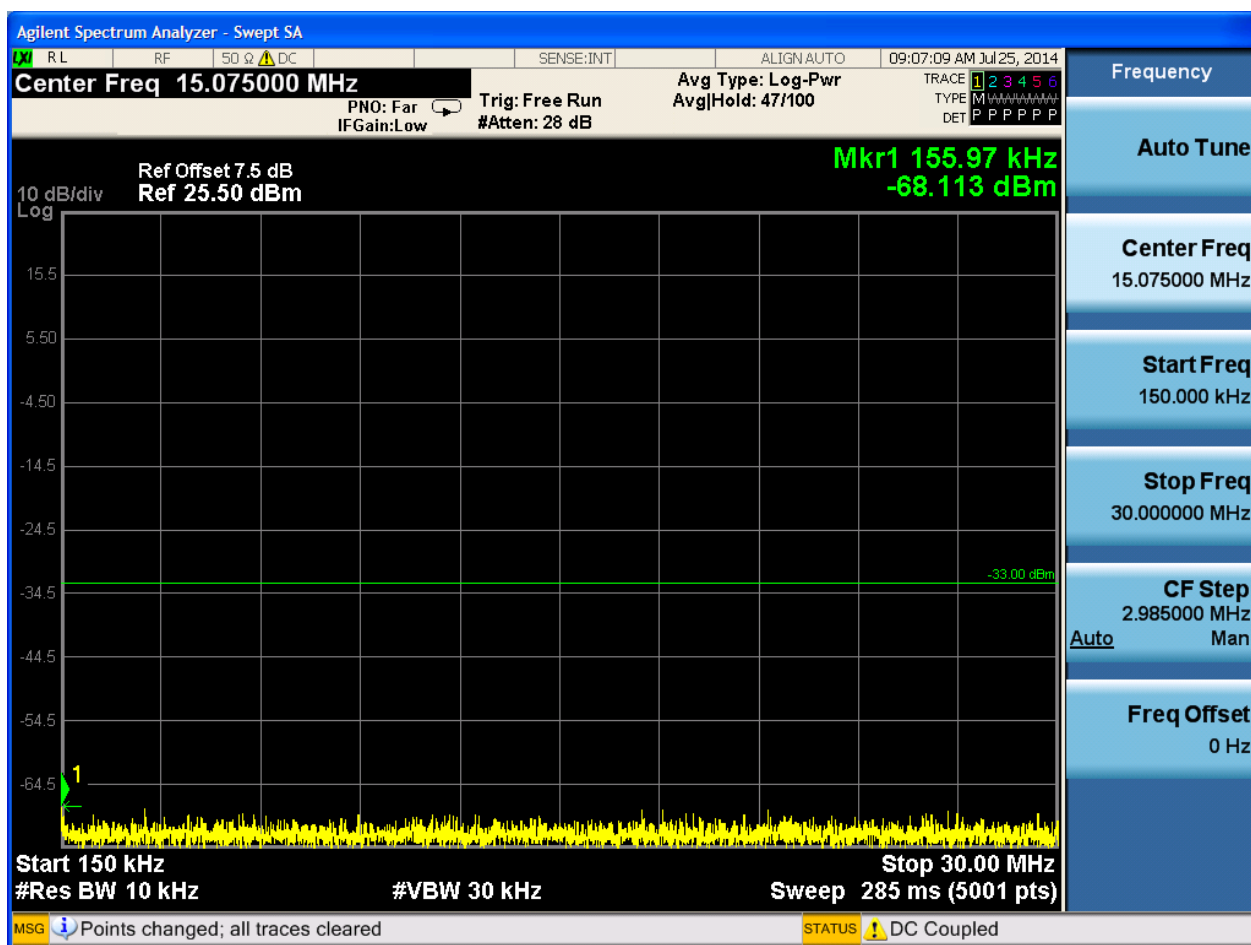


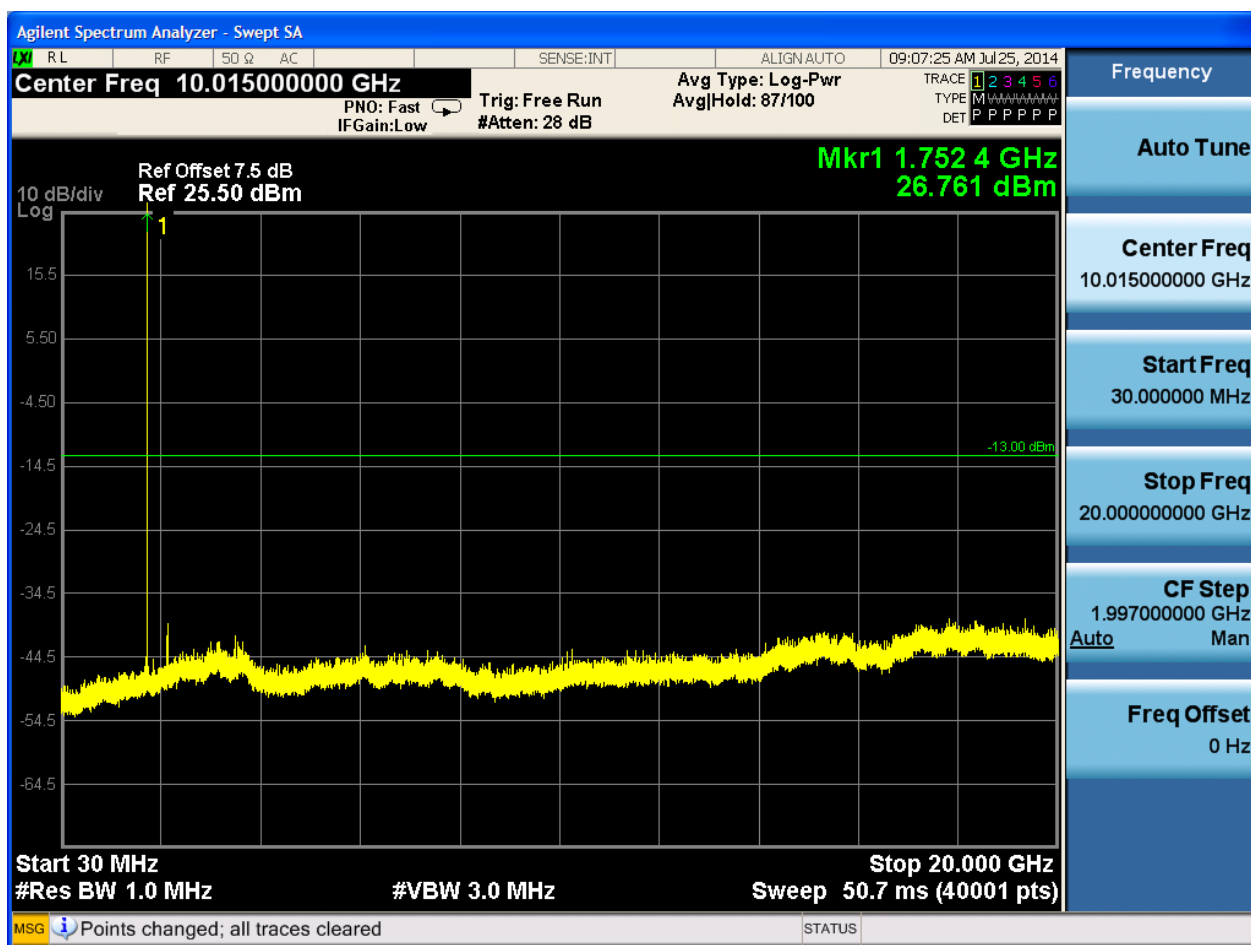


6.3.2.1.2.3 Test Channel = HCH

6.3.2.1.2.3.1 Test RB = RB1#0



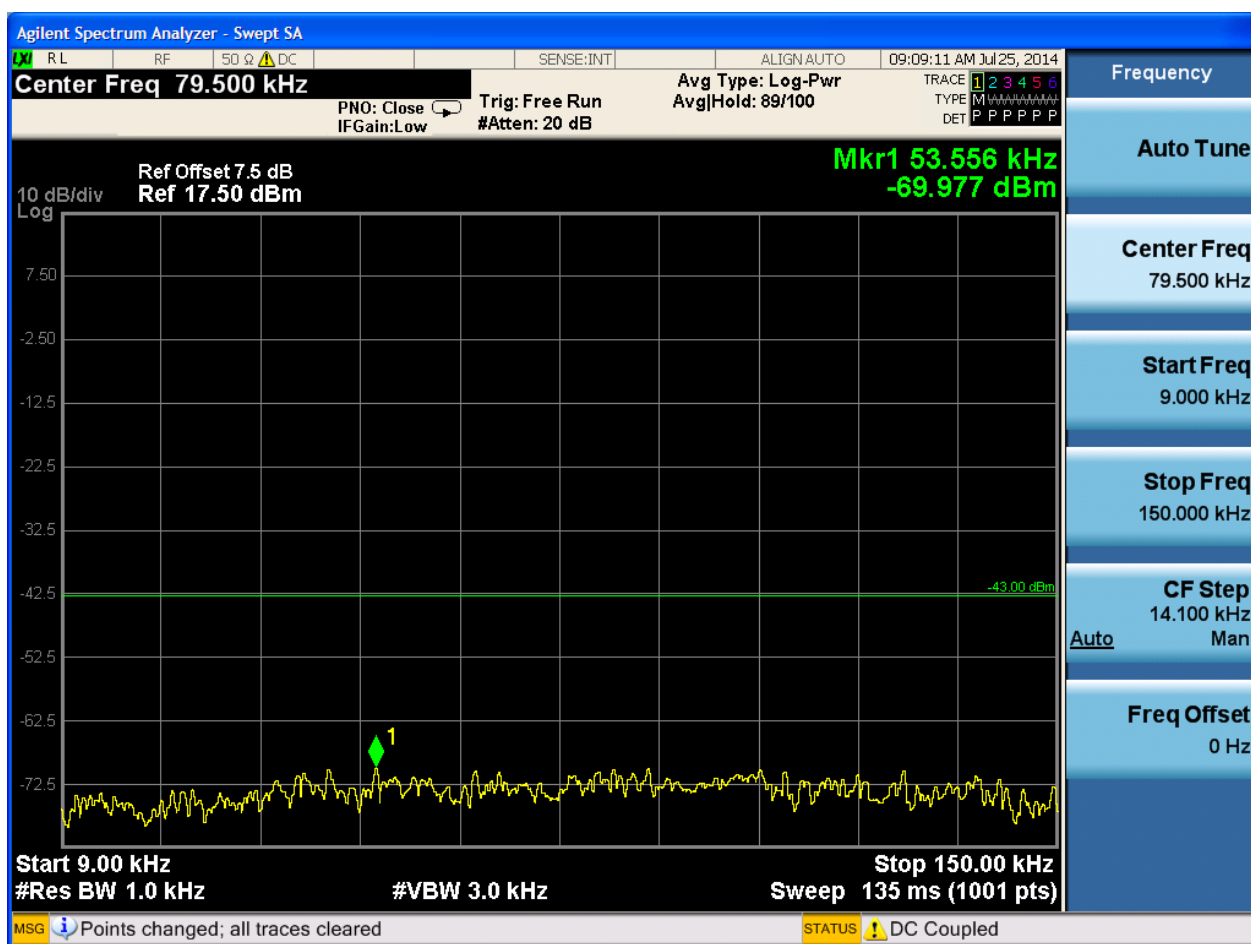


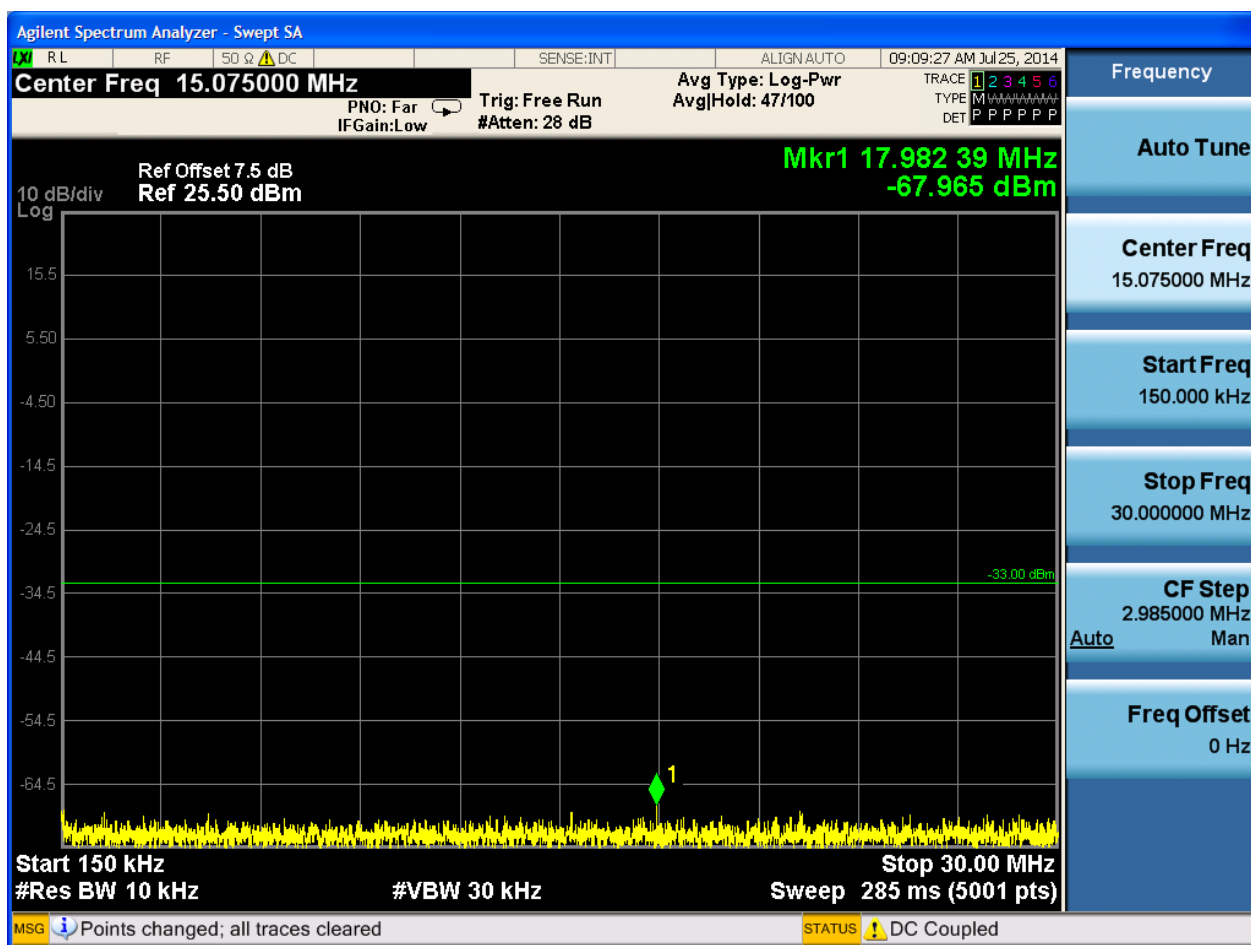


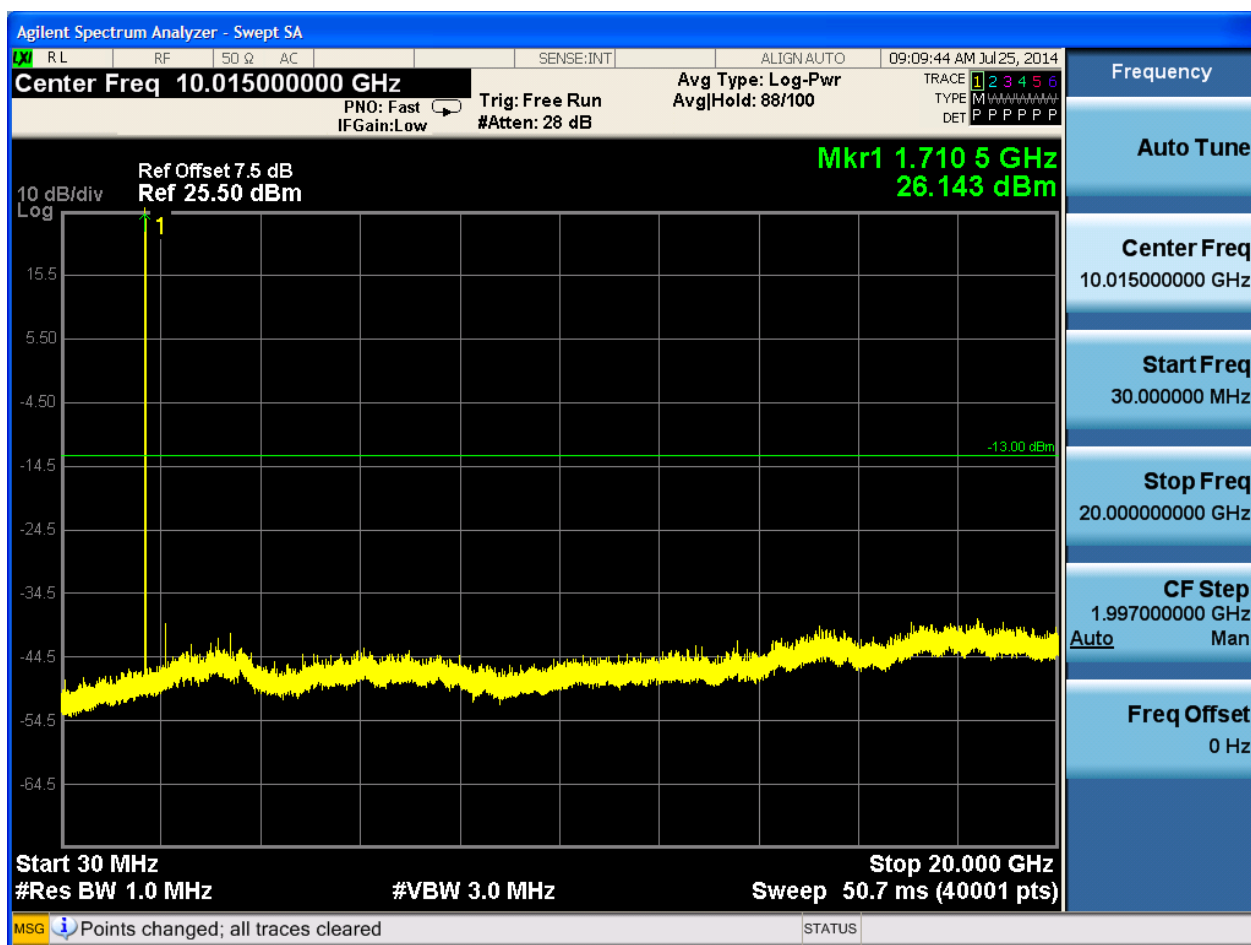
6.3.2.1.3 Test Bandwidth = 5

6.3.2.1.3.1 Test Channel = LCH

6.3.2.1.3.1.1 Test RB = RB1#0

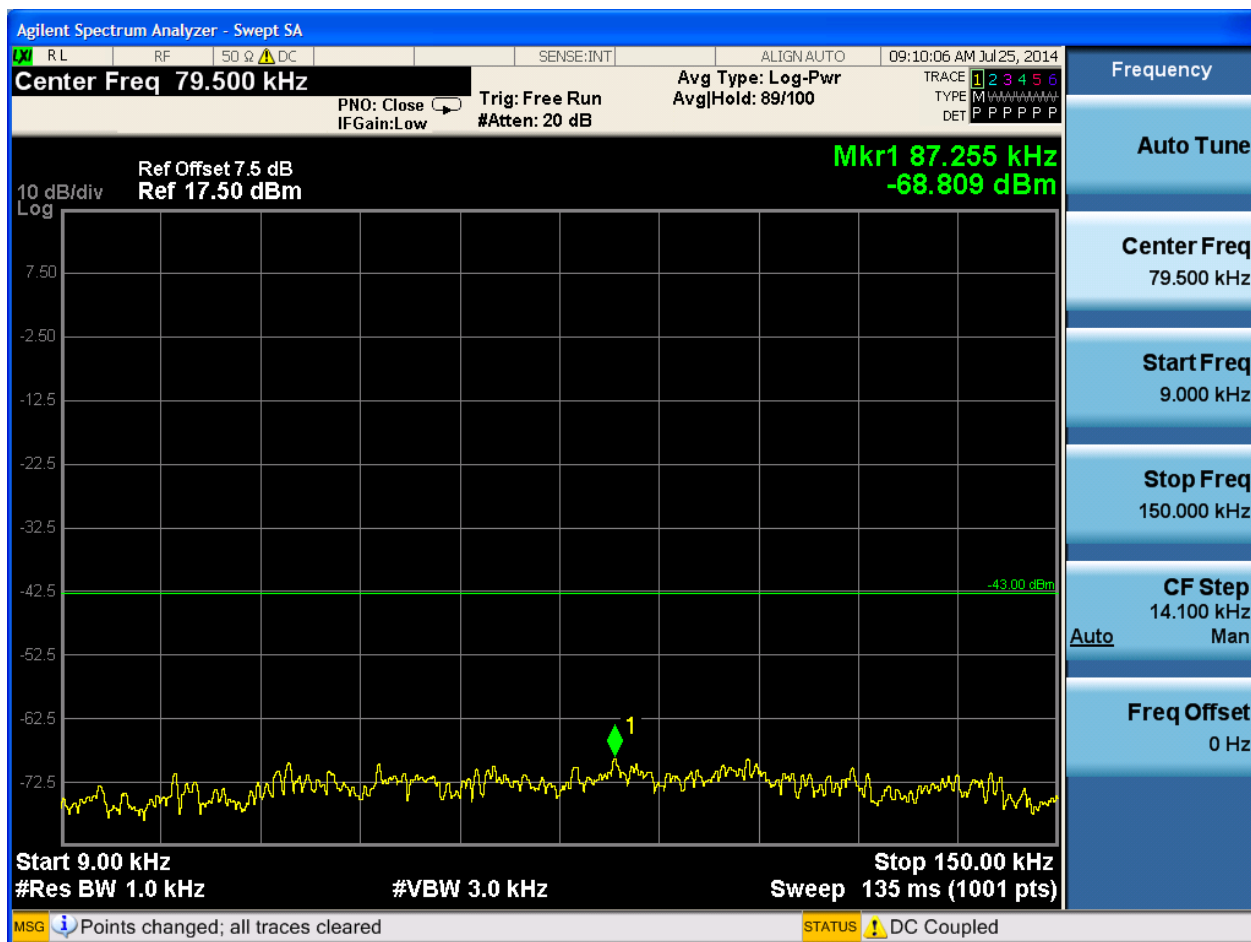


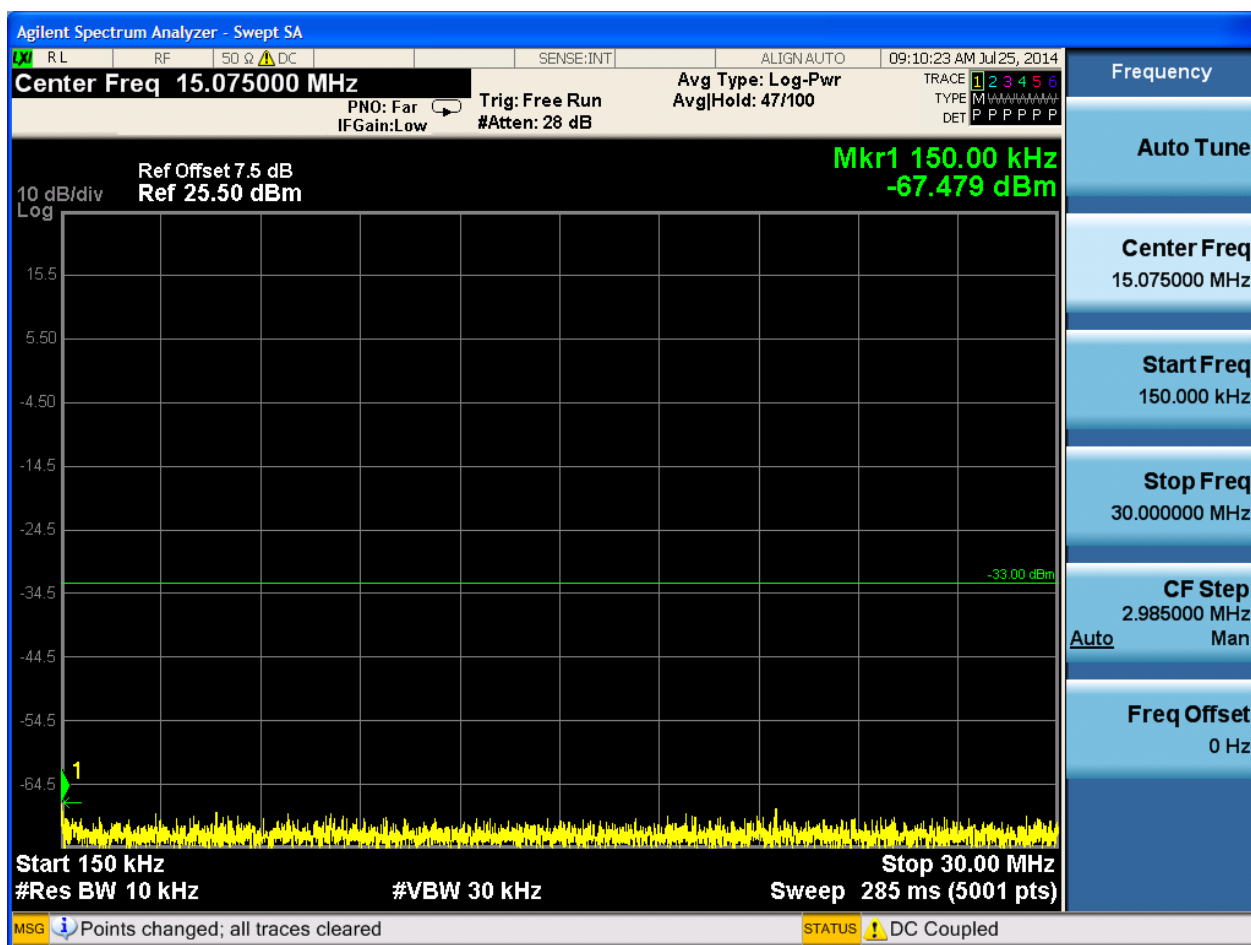


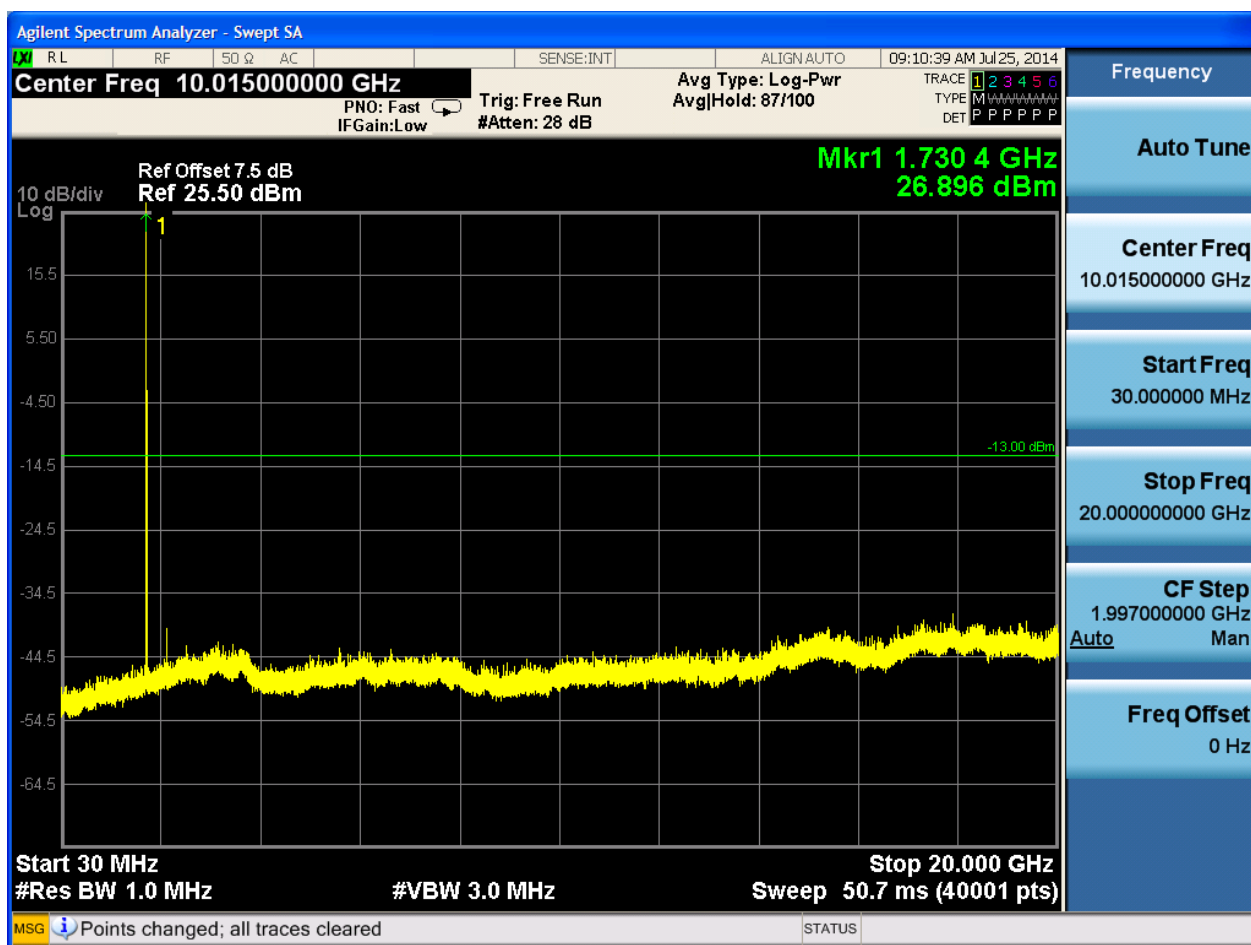


6.3.2.1.3.2 Test Channel = MCH

6.3.2.1.3.2.1 Test RB = RB1#0



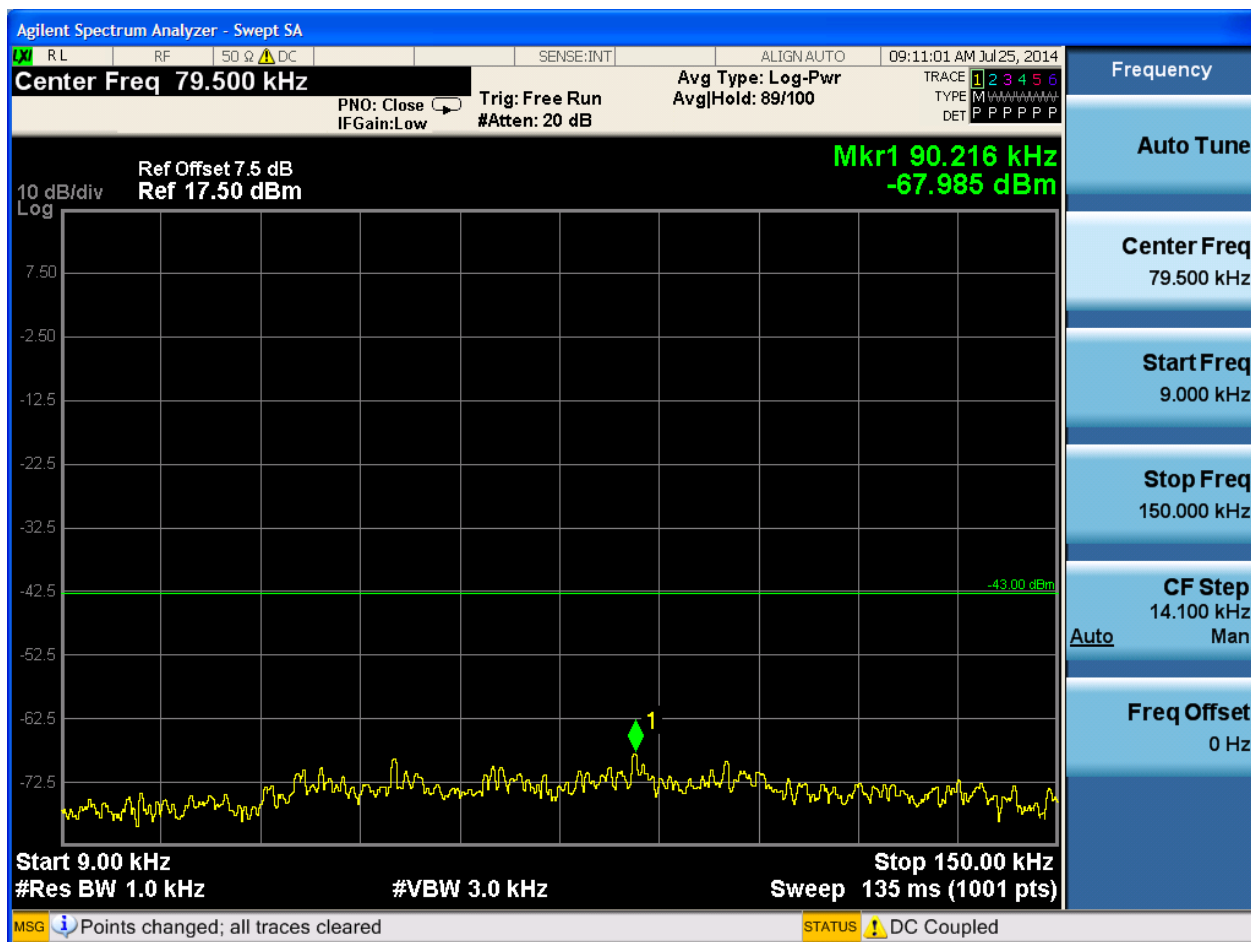


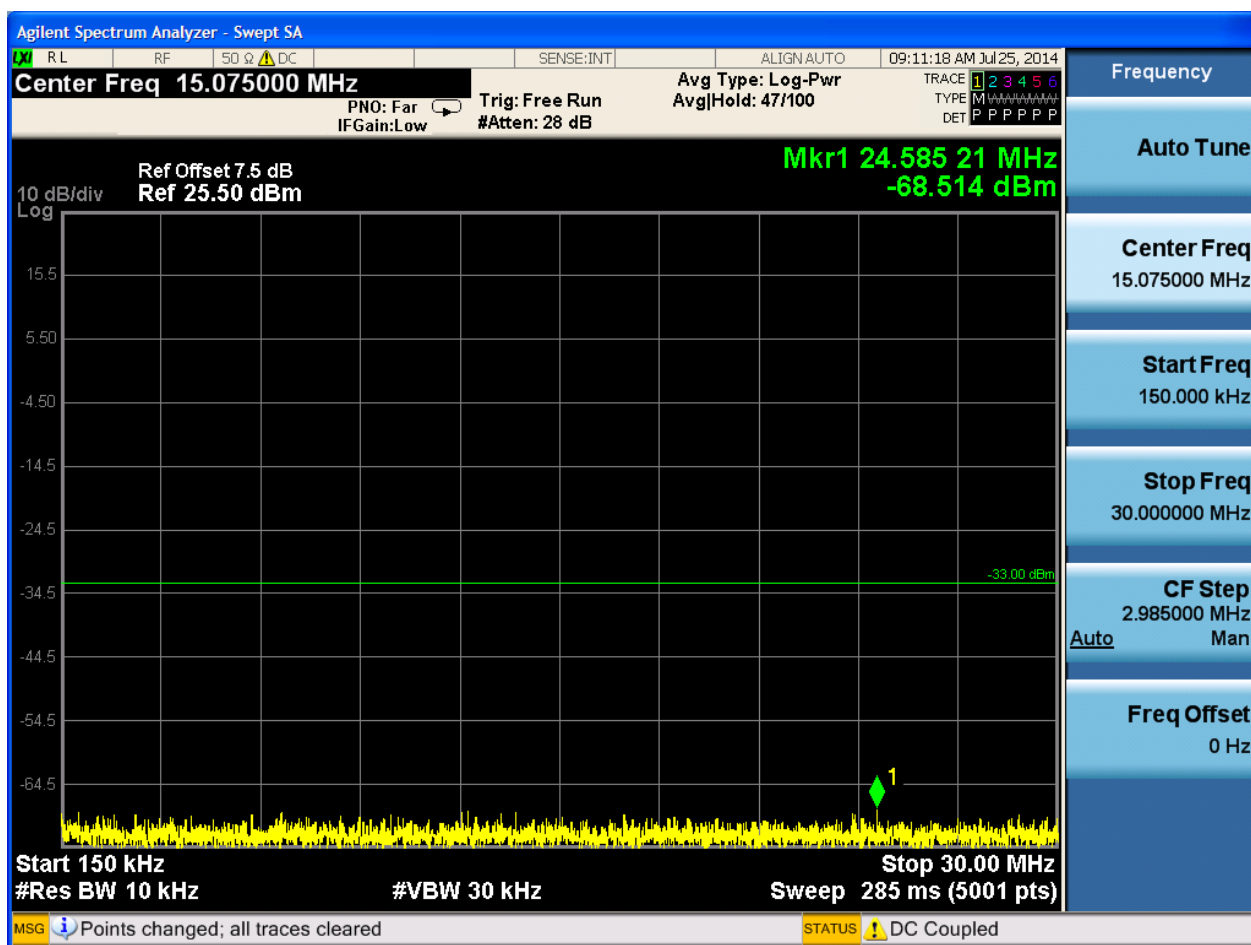


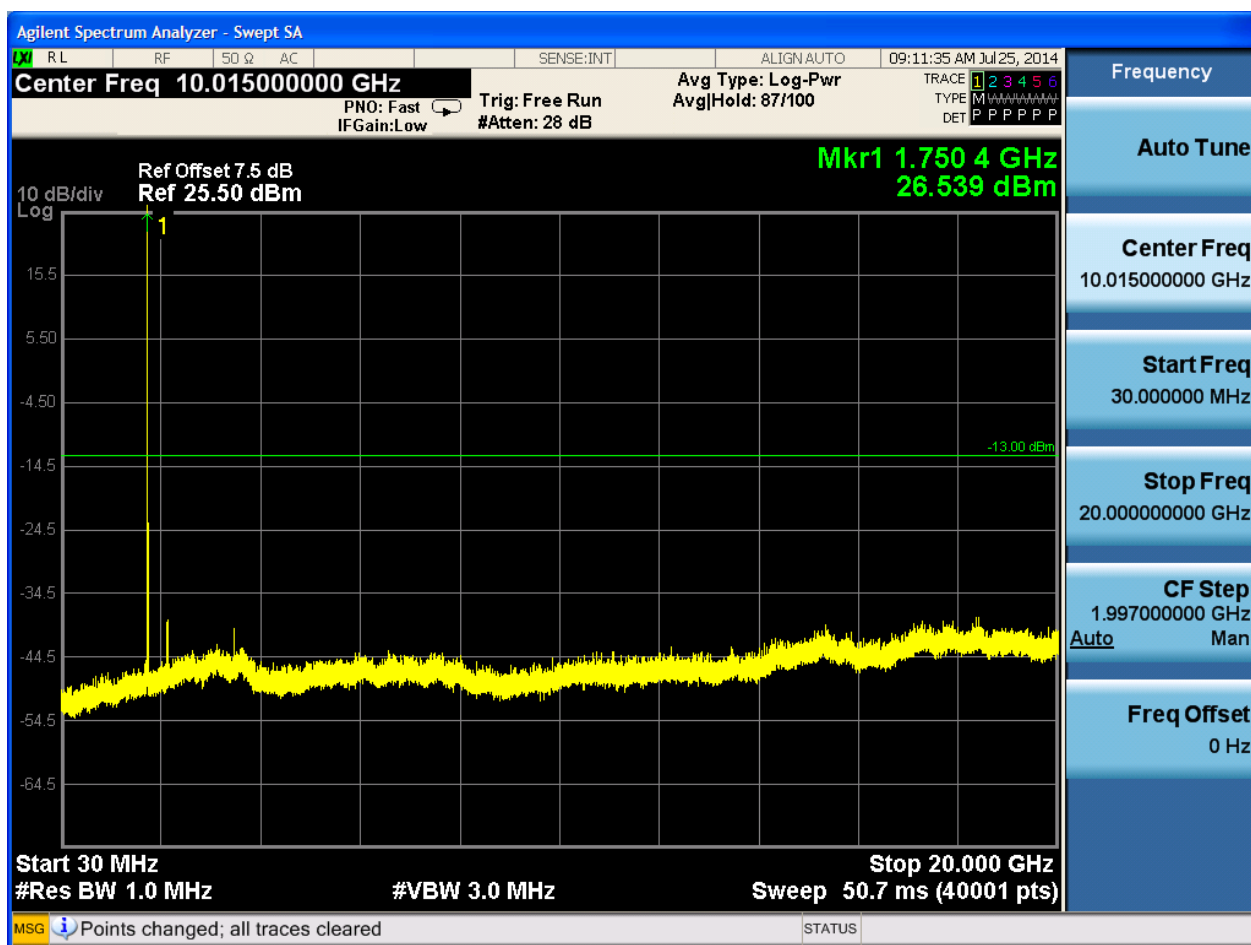


6.3.2.1.3.3 Test Channel = HCH

6.3.2.1.3.3.1 Test RB = RB1#0







6.3.2.1.4 Test Bandwidth = 10

6.3.2.1.4.1 Test Channel = LCH

6.3.2.1.4.1.1 Test RB = RB1#0

