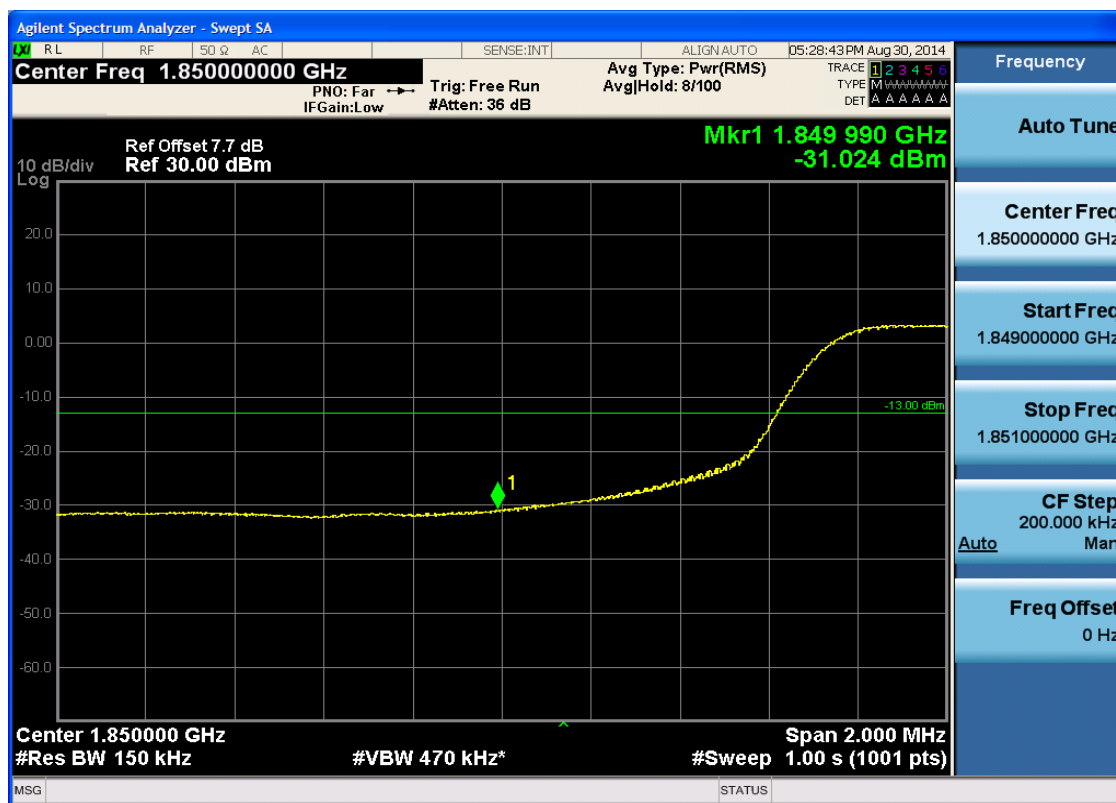




5.1.1.1.5.1.4 Test RB = RB75#0





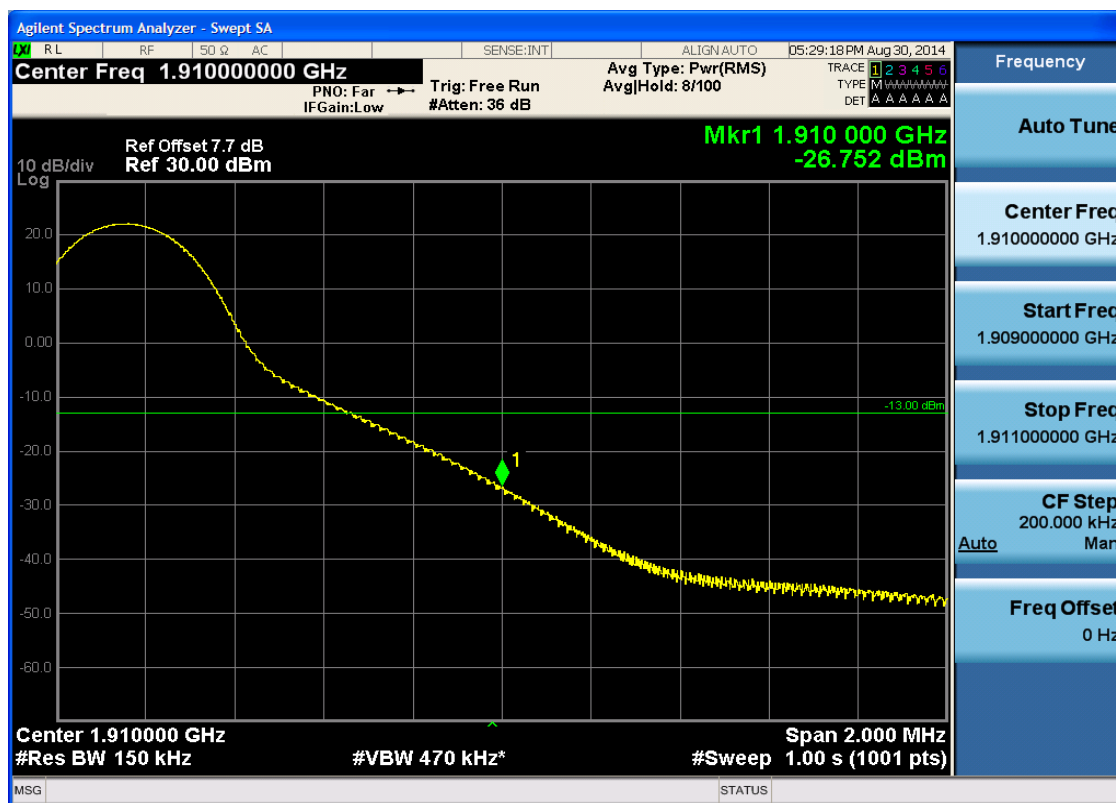
5.1.1.1.5.2 Test Channel = HCH

5.1.1.1.5.2.1 Test RB = RB1#0



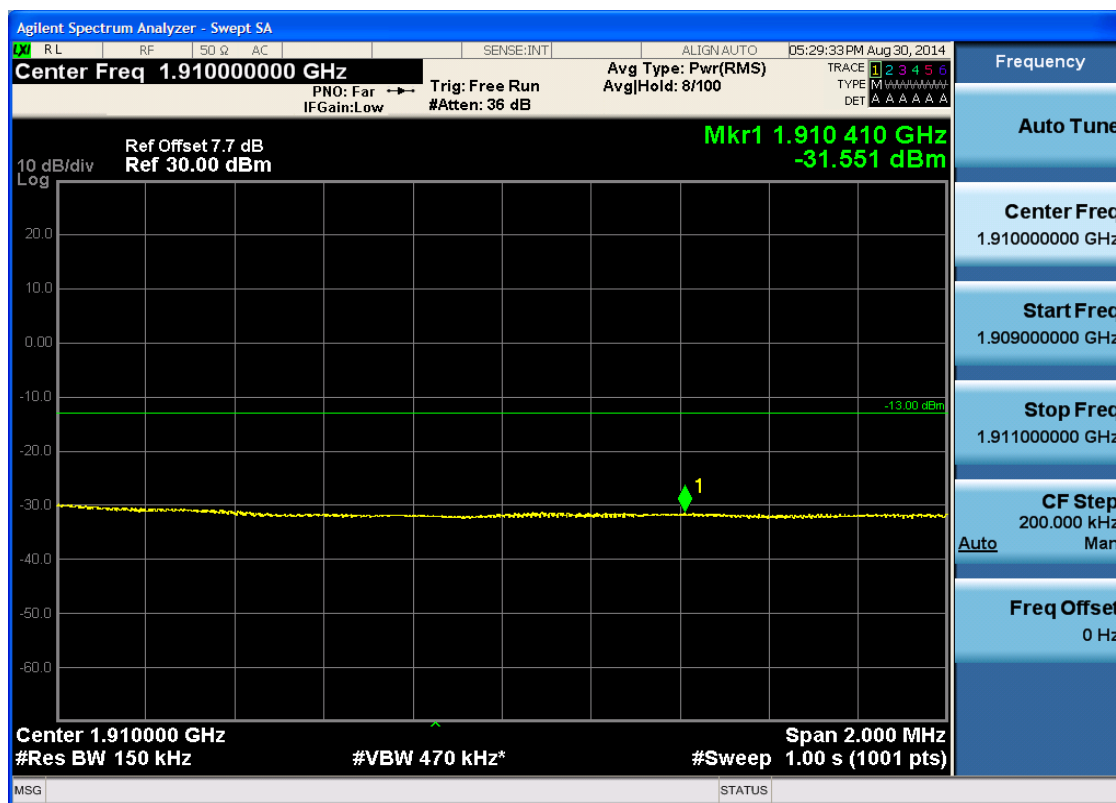


5.1.1.1.5.2.2 Test RB = RB1#74





5.1.1.1.5.2.3 Test RB = RB38#19





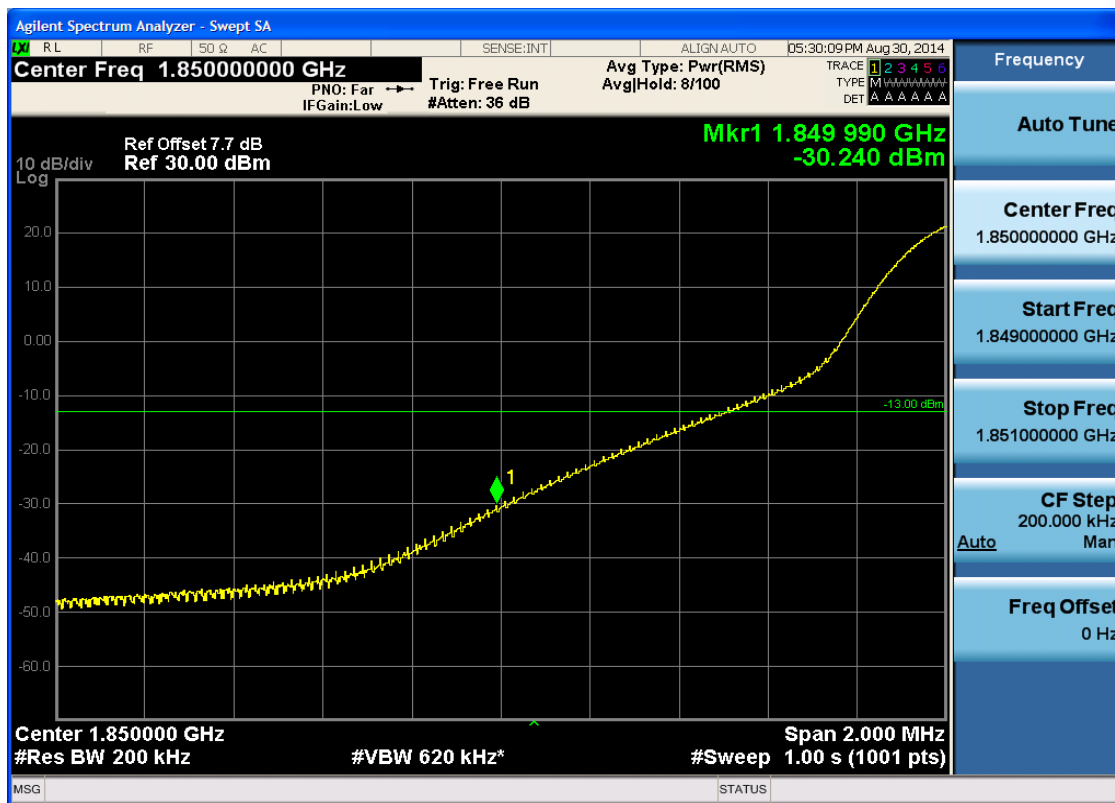
5.1.1.1.5.2.4 Test RB = RB75#0



5.1.1.1.6 Test Bandwidth = 20

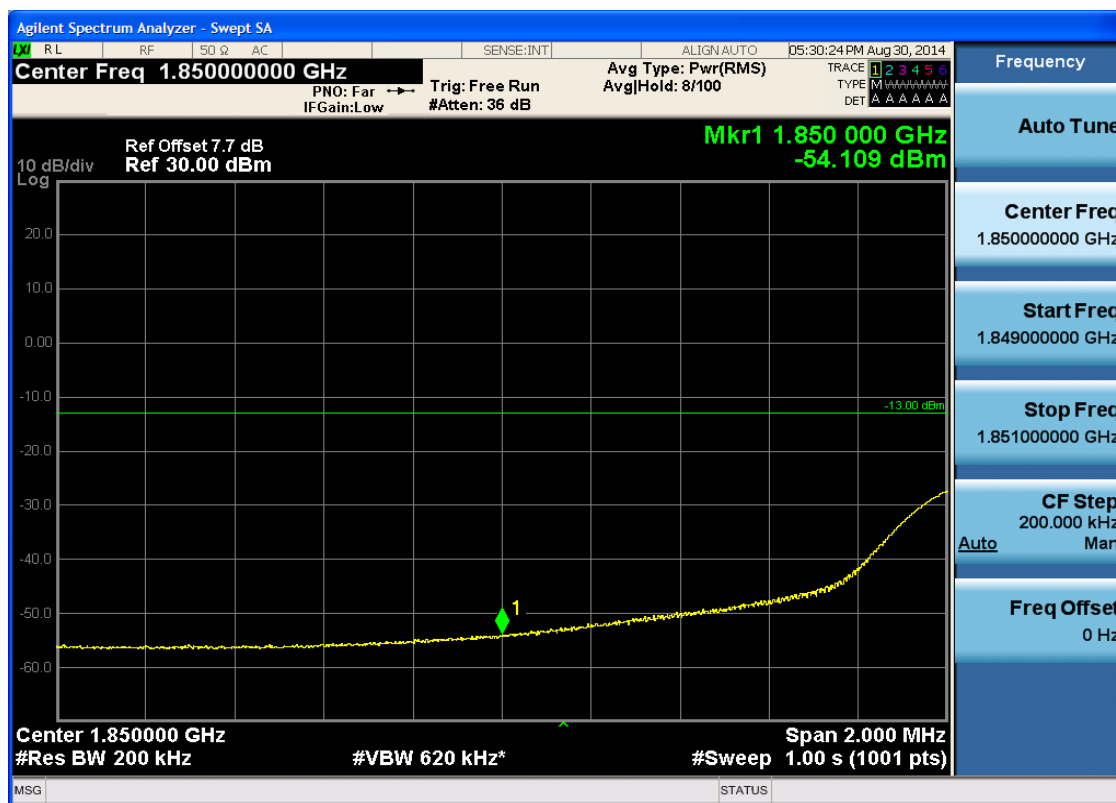
5.1.1.1.6.1 Test Channel = LCH

5.1.1.1.6.1.1 Test RB = RB1#0





5.1.1.1.6.1.2 Test RB = RB1#99



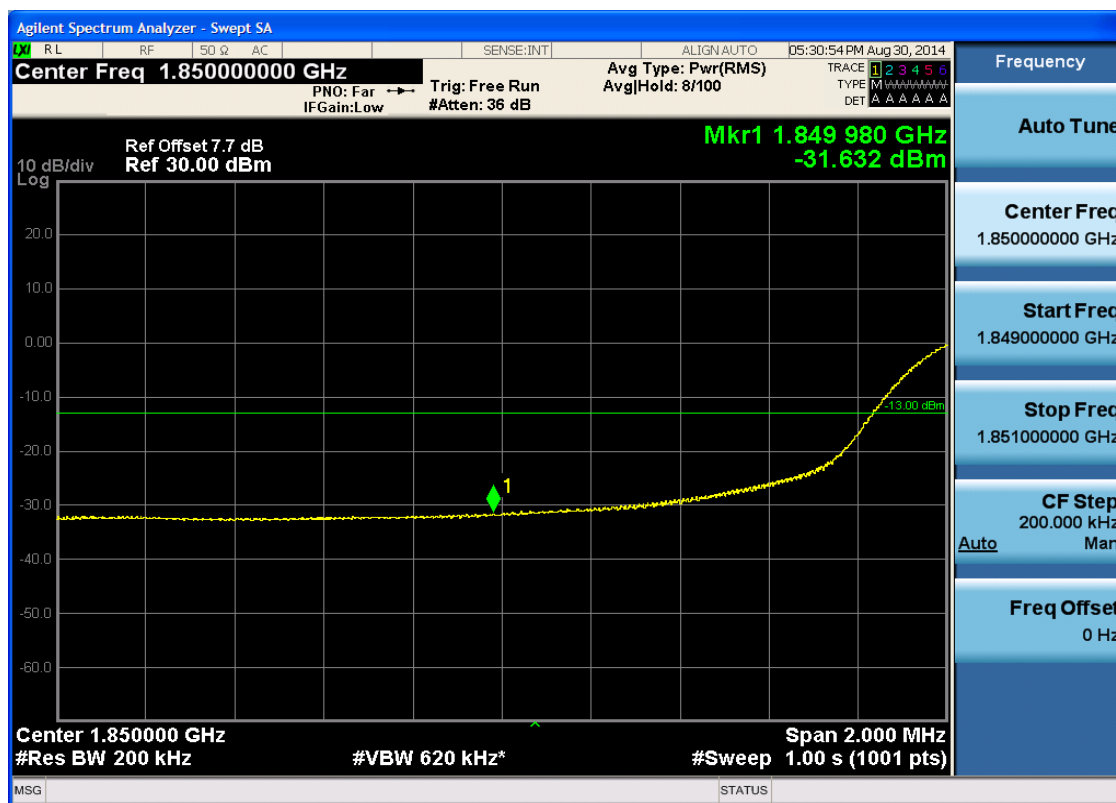


5.1.1.1.6.1.3 Test RB = RB50#25





5.1.1.1.6.1.4 Test RB = RB100#0





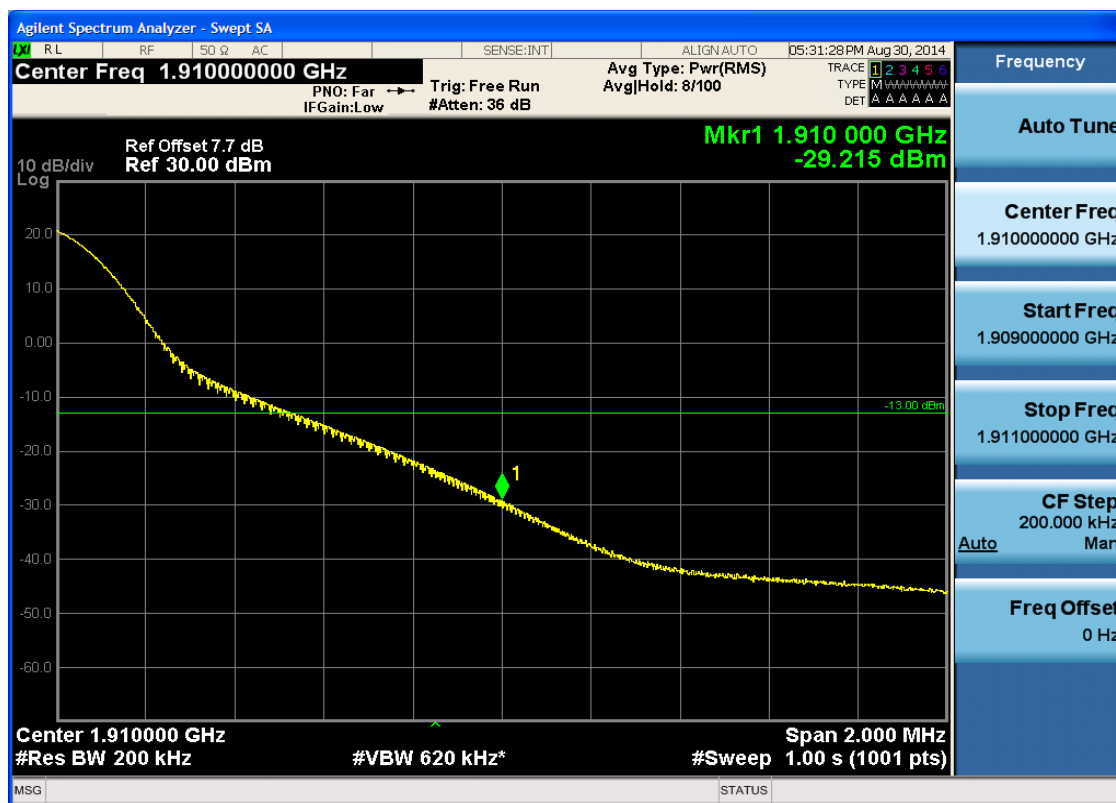
5.1.1.1.6.2 Test Channel = HCH

5.1.1.1.6.2.1 Test RB = RB1#0



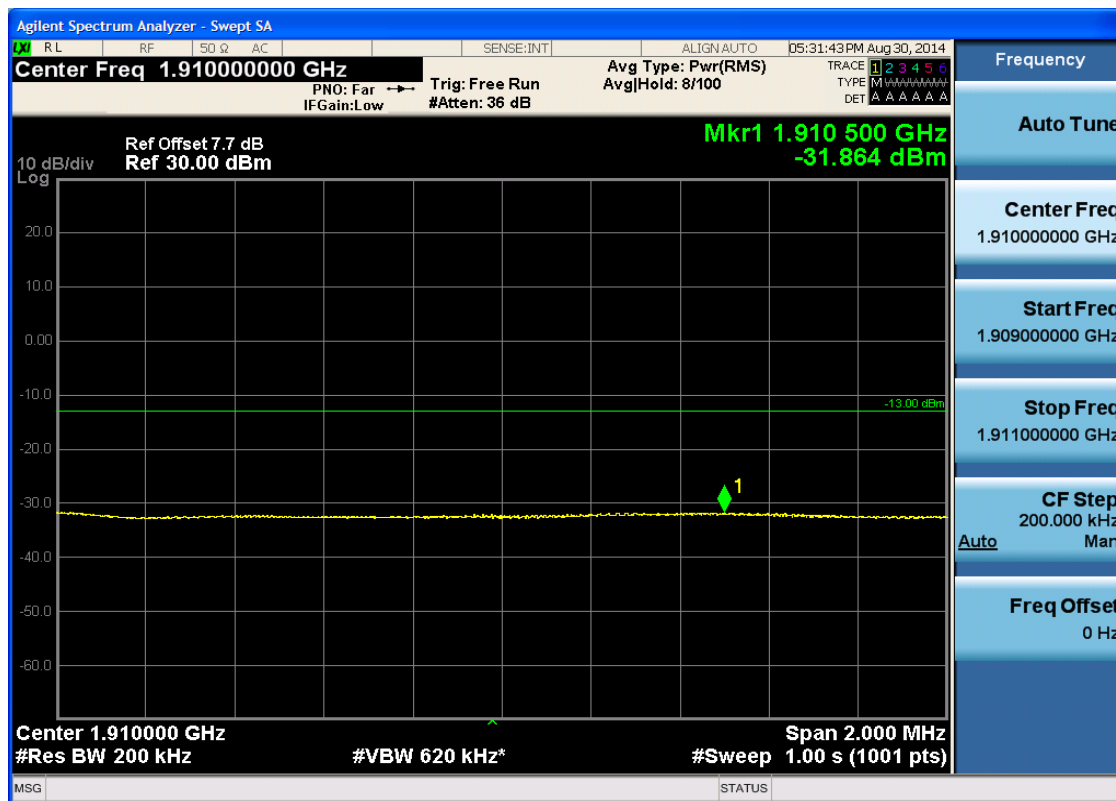


5.1.1.1.6.2.2 Test RB = RB1#99



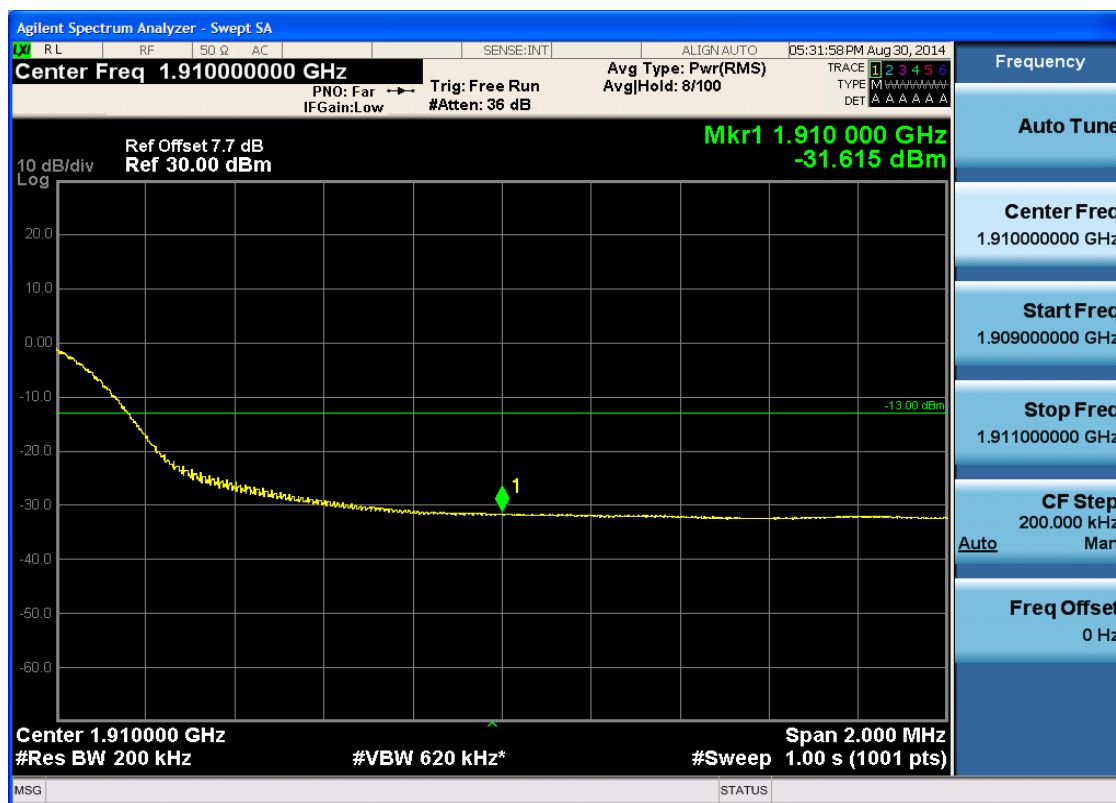


5.1.1.1.6.2.3 Test RB = RB50#25





5.1.1.1.6.2.4 Test RB = RB100#0



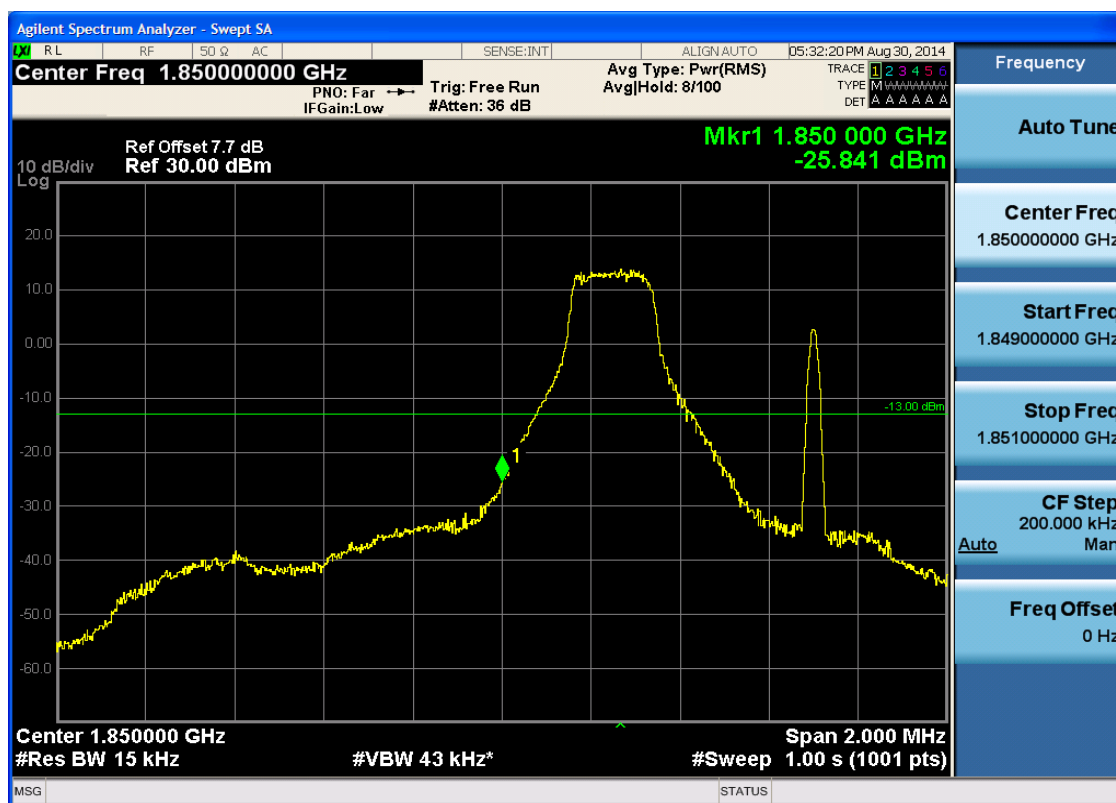


5.1.1.2 Test Mode = LTE/TM2

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



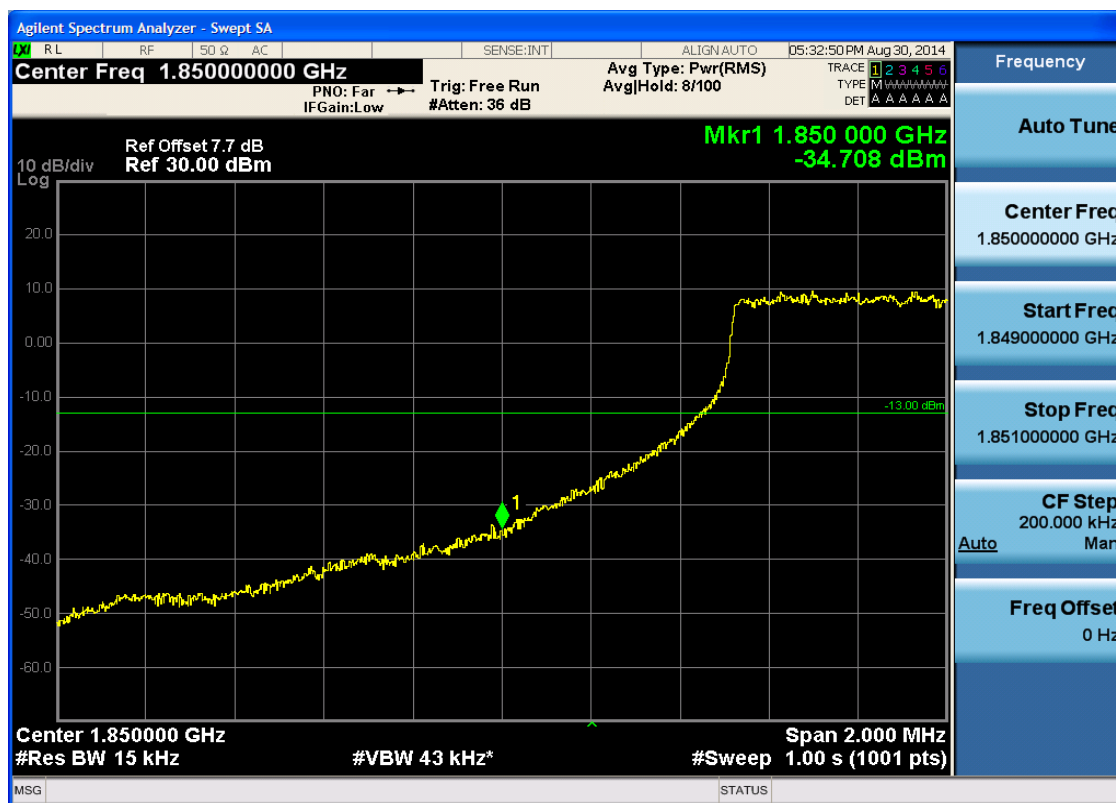


5.1.1.2.1.1.2 Test RB = RB1#5



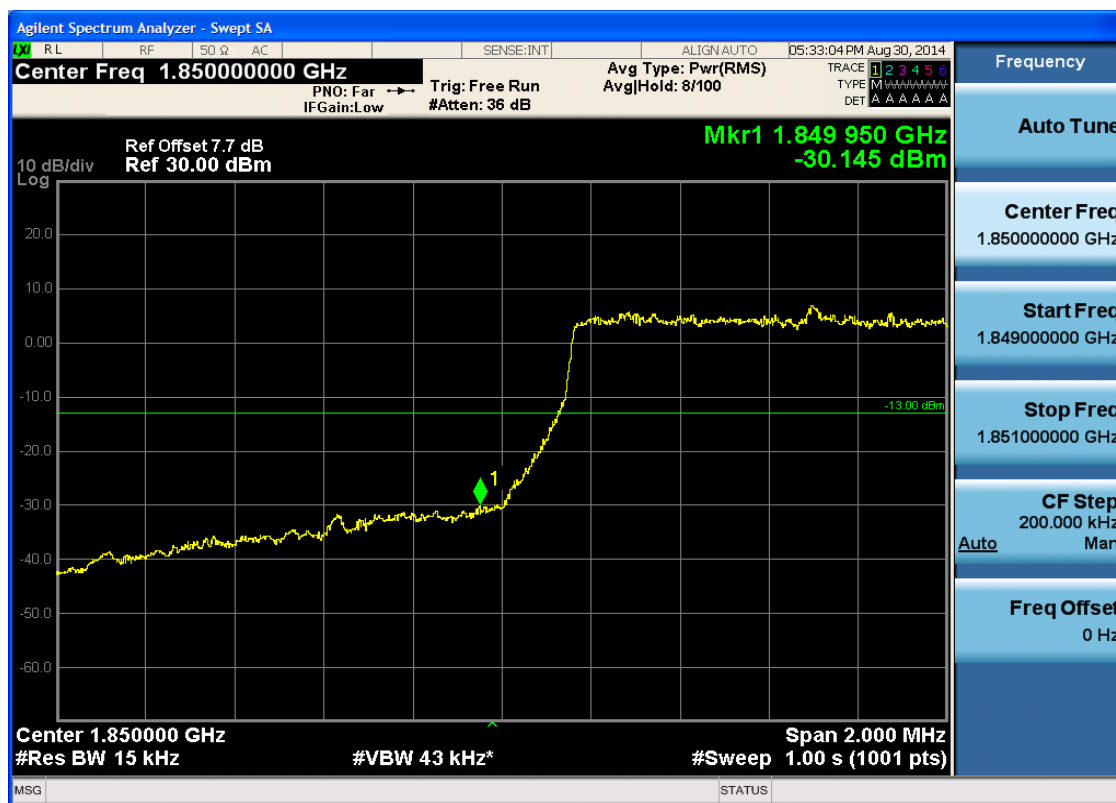


5.1.1.2.1.1.3 Test RB = RB3#2





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





Agilent Spectrum Analyzer - Swept SA

☒ R.L. RF 50 Ω AC SENSE:INT ALIGN:AUTO 05:35:51 PM Aug 30, 2014
Center Freq 1.91000000 GHz Avg Type: Pwr(RMS) Avg|Hold: 8/100
 PNO: Far Trig: Free Run Mkr1 1.910 000 GHz
 IFGain:Low #Atten: 36 dB TYPE: M DET: A A A A A A
 Ref Offset 7.7 dB Ref 30.00 dBm -24.902 dBm

10 dB/div Log

Ref Offset 7.7 dB
Ref 30.00 dBm

Mkr1 1.910 000 GHz
-24.902 dBm

-13.00 dBm

1

Center 1.910000 GHz
#Res BW 15 kHz #VBW 43 kHz*

Span 2.000 MHz
#Sweep 1.00 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
1.91000000 GHz

Start Freq
1.909000000 GHz

Stop Freq
1.911000000 GHz

CF Step
200.000 kHz
Auto Man

Freq Offset
0 Hz



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN:AUTO 05:36:06 PM Aug 30, 2014

Center Freq 1.91000000 GHz PNO: Far Trig: Free Run Avg Type: Pwr(RMS) TRACE 1 2 3 4 5 6
IFGain:Low #Atten: 36 dB AvgHold: 8/100 TYPE M DET A A A A A A

Ref Offset 7.7 dB Mkr1 1.910 010 GHz
Ref 30.00 dBm -26.972 dBm

10 dB/div Log

20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0

-13.00 dBm

1

Center 1.910000 GHz Span 2.000 MHz
#Res BW 15 kHz #VBW 43 kHz* #Sweep 1.00 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq 1.91000000 GHz

Start Freq 1.90900000 GHz

Stop Freq 1.91100000 GHz

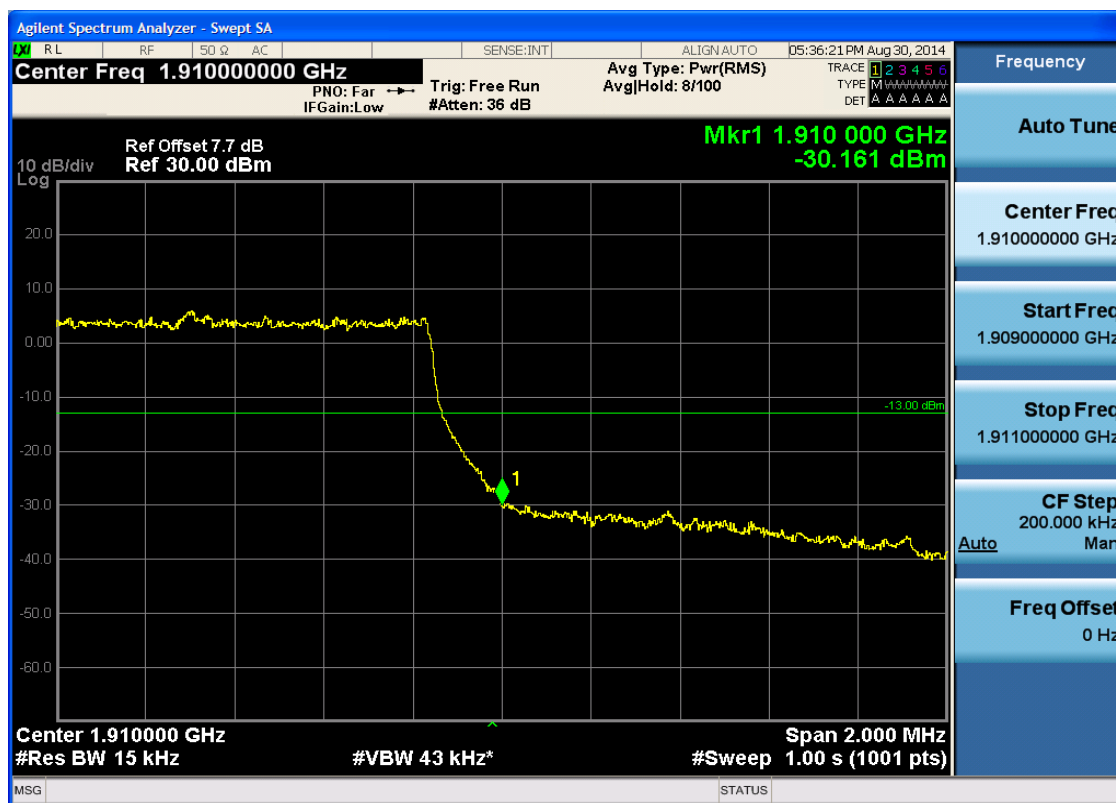
CF Step 200.000 kHz Mar

Auto

Freq Offset 0 Hz



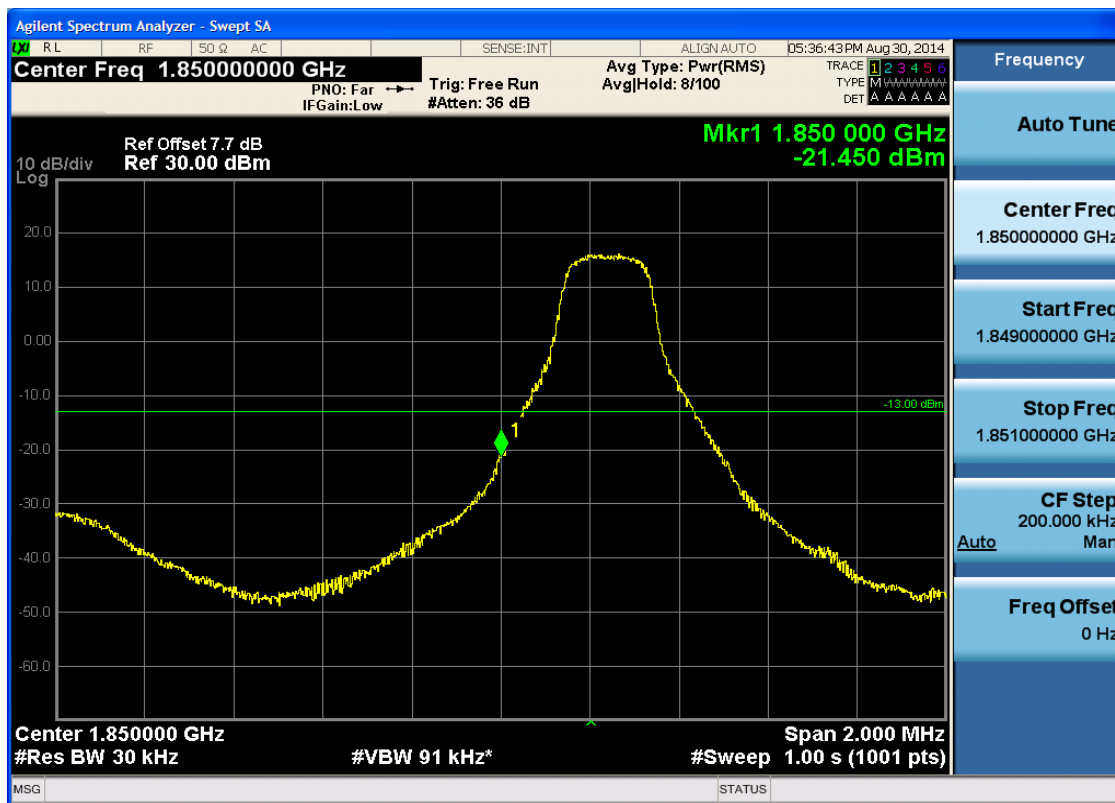
5.1.1.2.1.2.4 Test RB = RB6#0



5.1.1.2.2 Test Bandwidth = 3

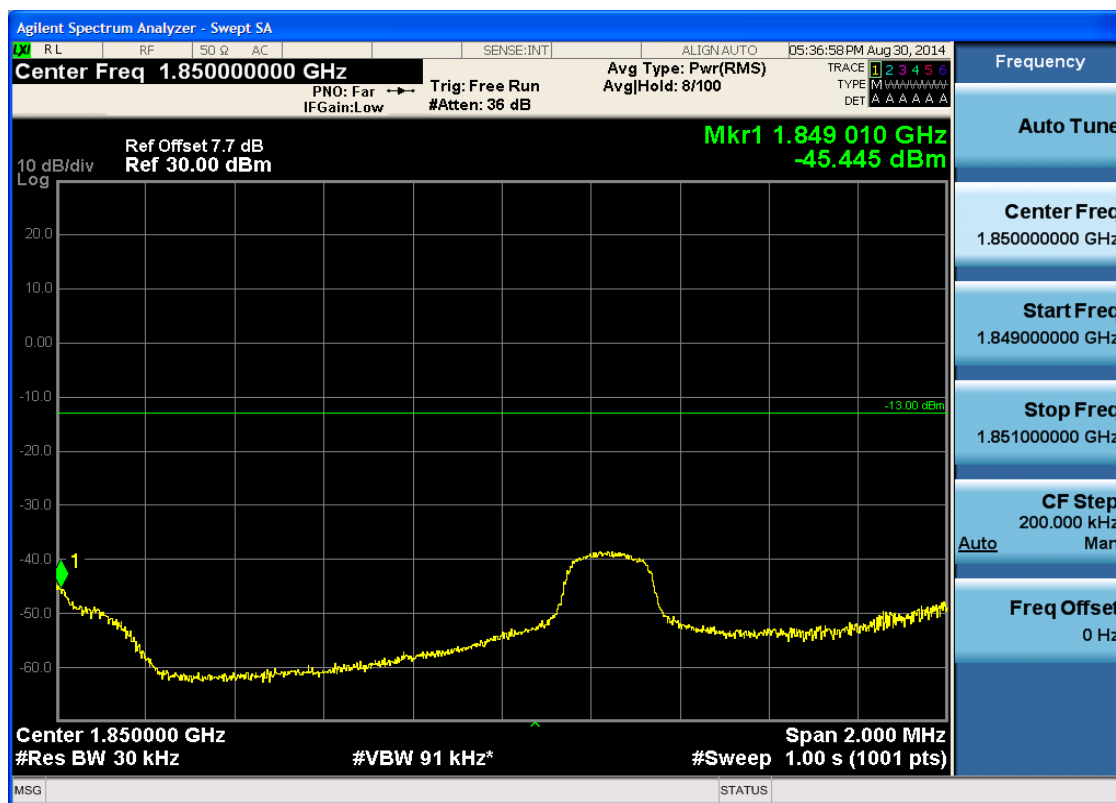
5.1.1.2.2.1 Test Channel = LCH

5.1.1.2.2.1.1 Test RB = RB1#0



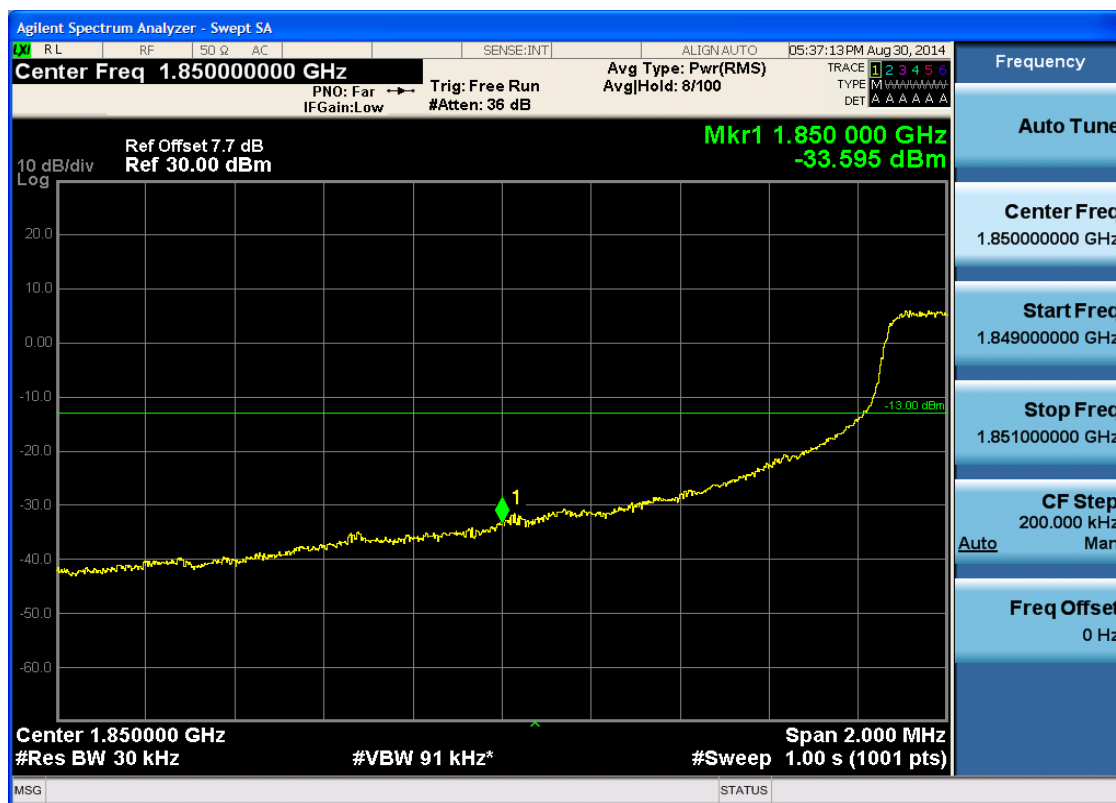


5.1.1.2.2.1.2 Test RB = RB1#14



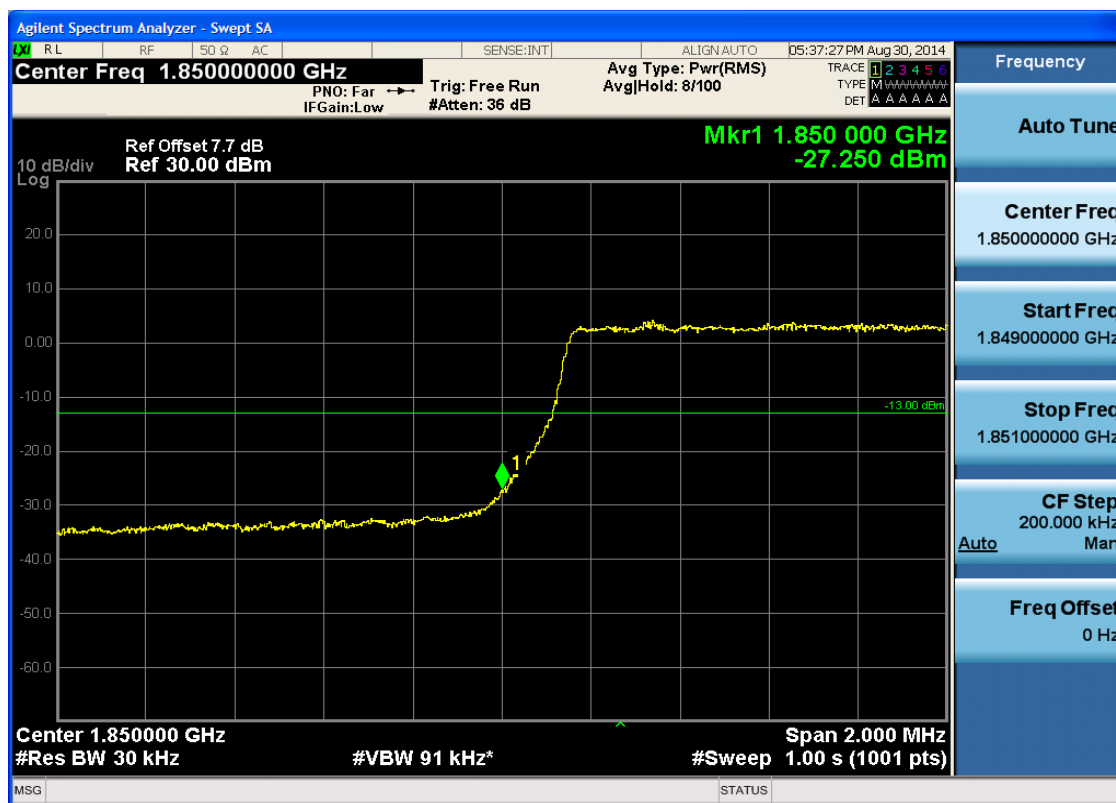


5.1.1.2.2.1.3 Test RB = RB8#4





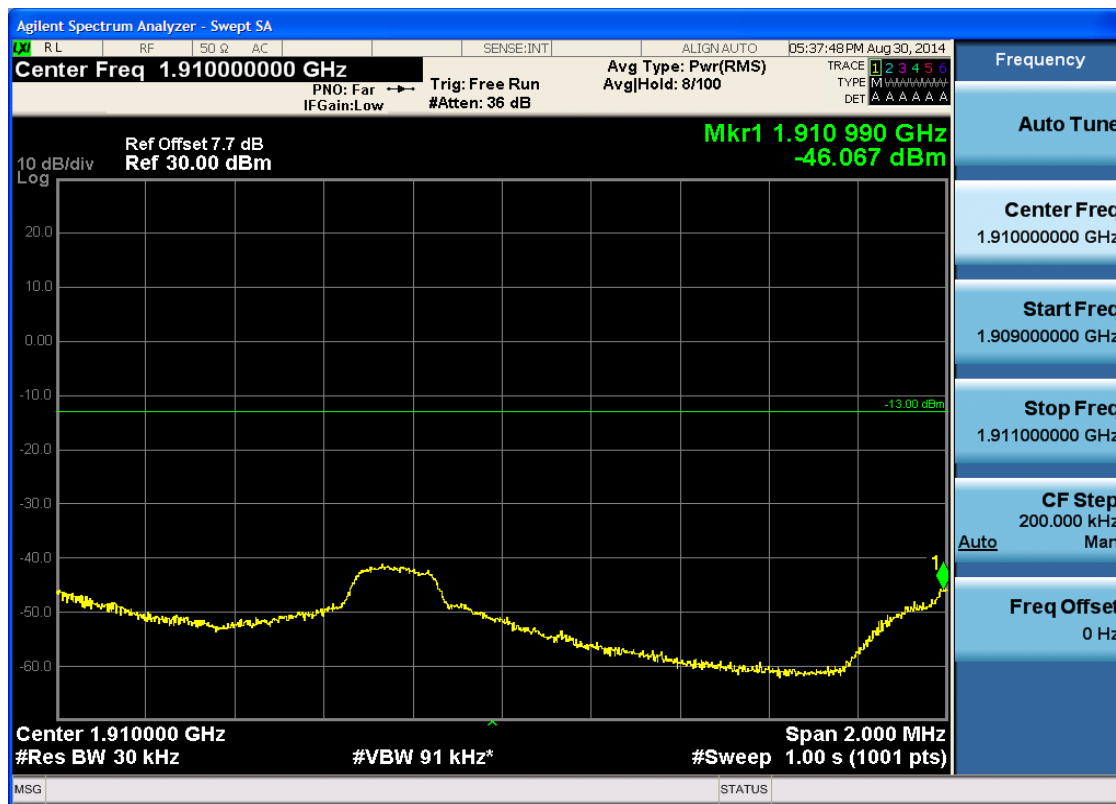
5.1.1.2.2.1.4 Test RB = RB15#0





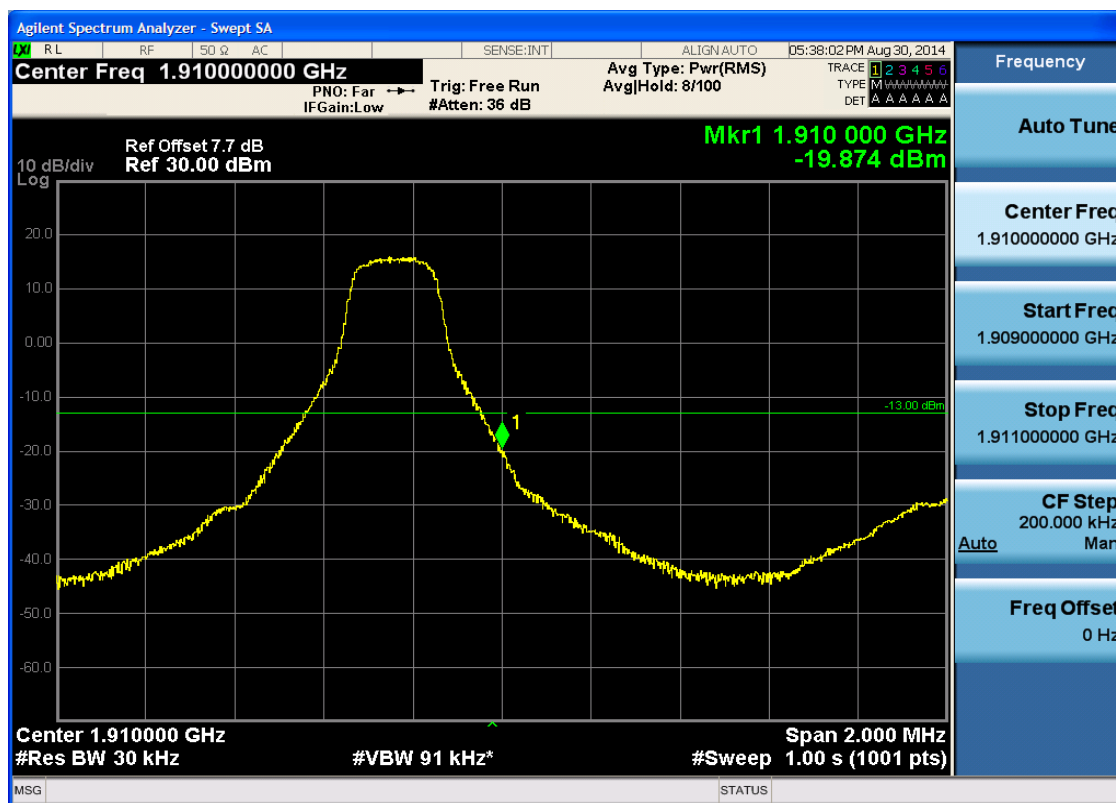
5.1.1.2.2.2 Test Channel = HCH

5.1.1.2.2.2.1 Test RB = RB1#0



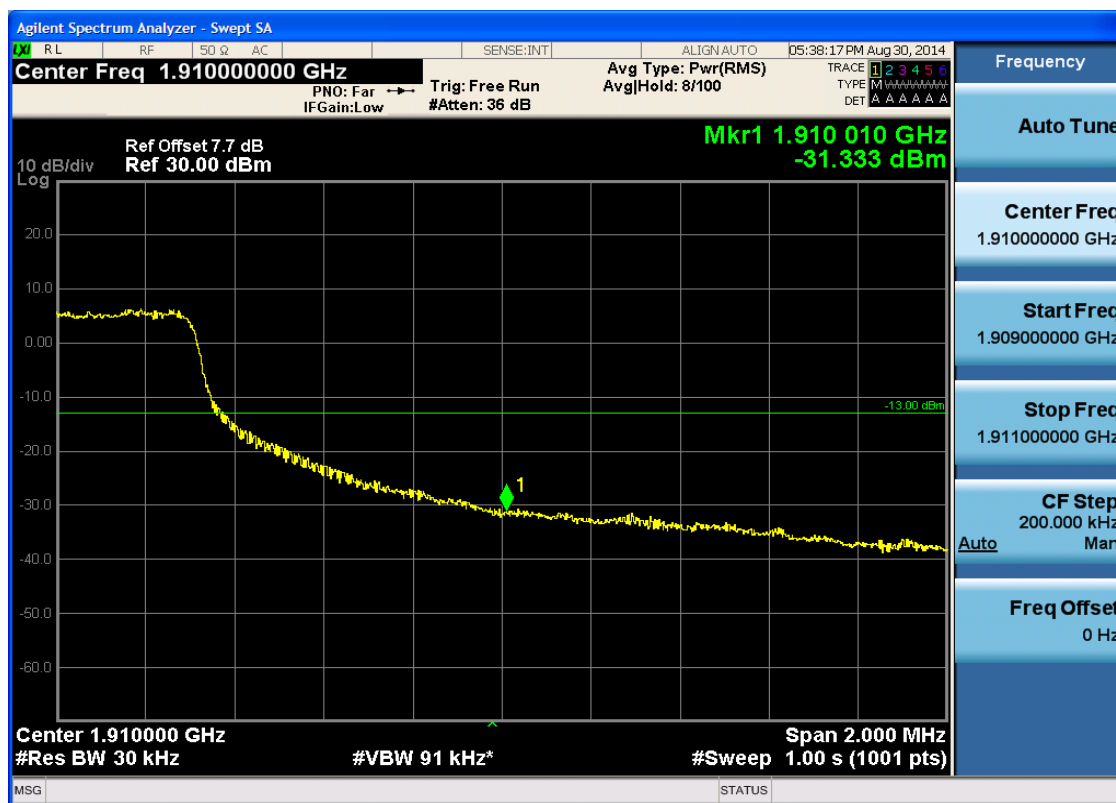


5.1.1.2.2.2 Test RB = RB1#14



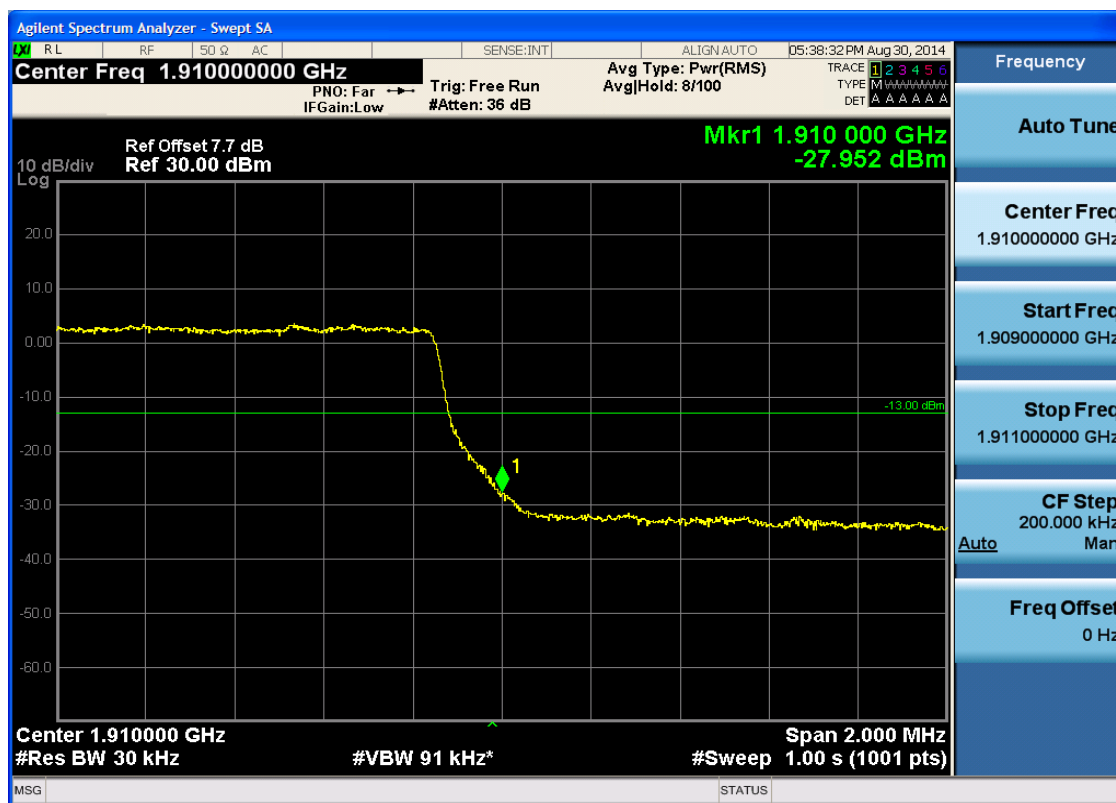


5.1.1.2.2.3 Test RB = RB8#4





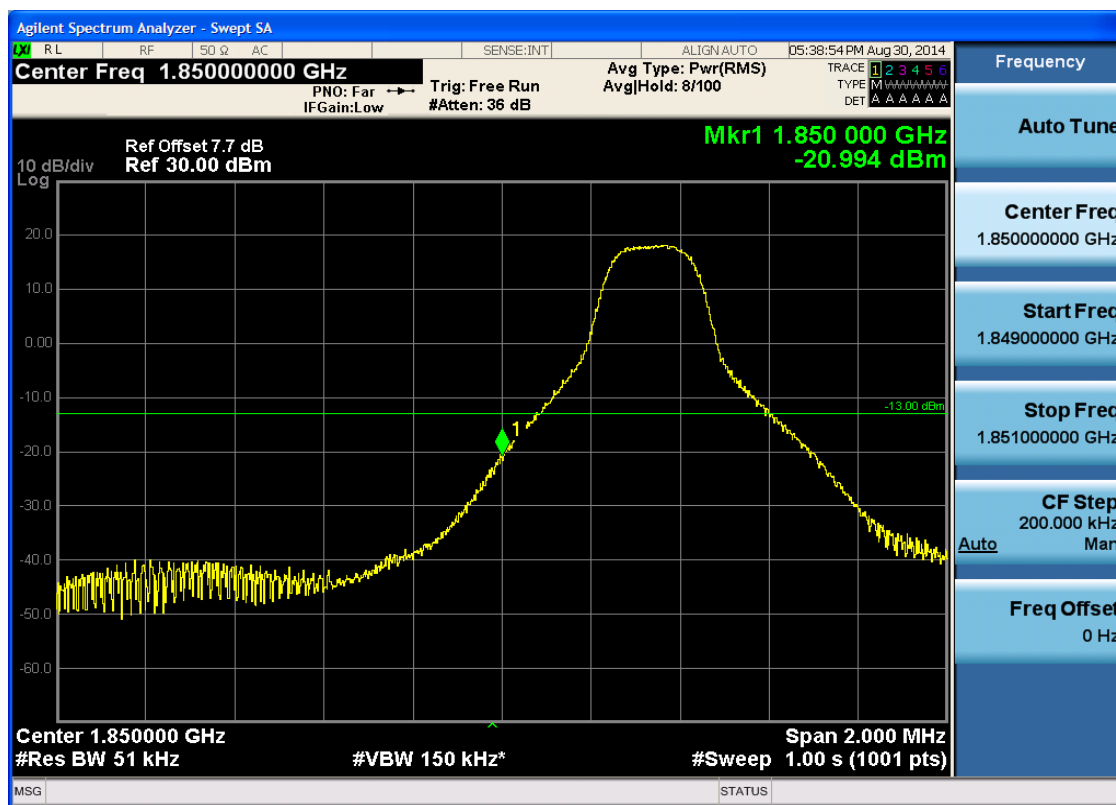
5.1.1.2.2.4 Test RB = RB15#0



5.1.1.2.3 Test Bandwidth = 5

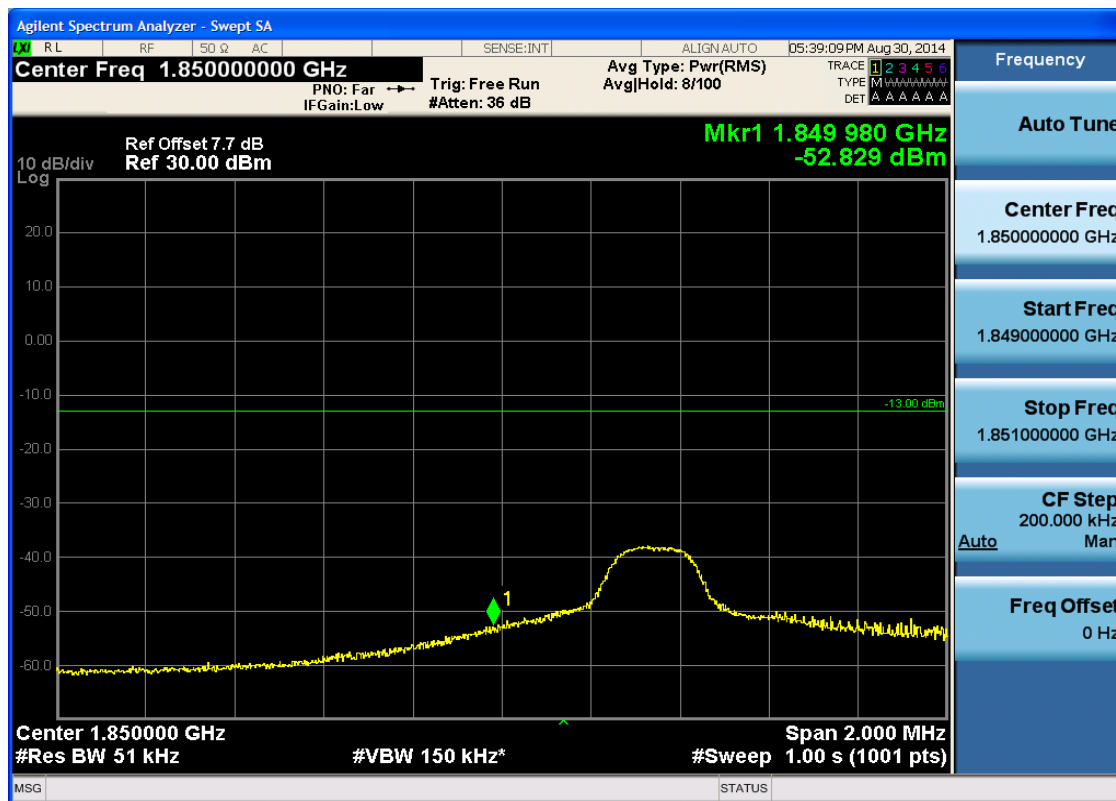
5.1.1.2.3.1 Test Channel = LCH

5.1.1.2.3.1.1 Test RB = RB1#0



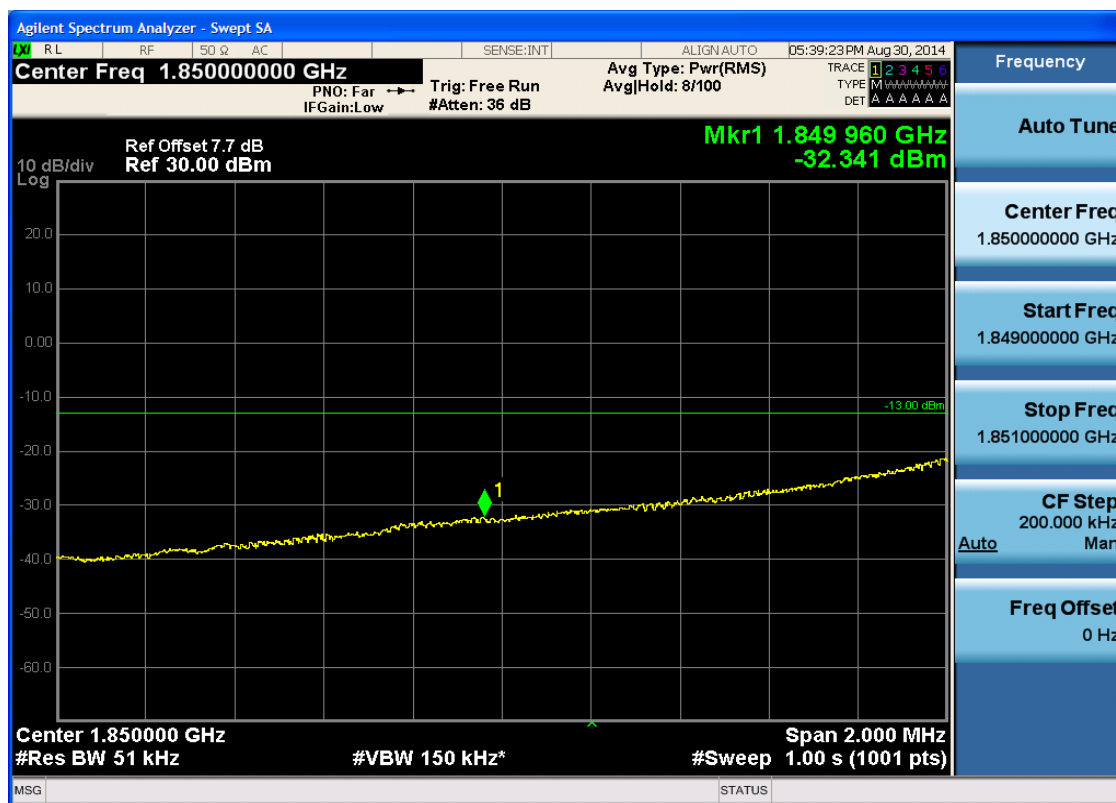


5.1.1.2.3.1.2 Test RB = RB1#24



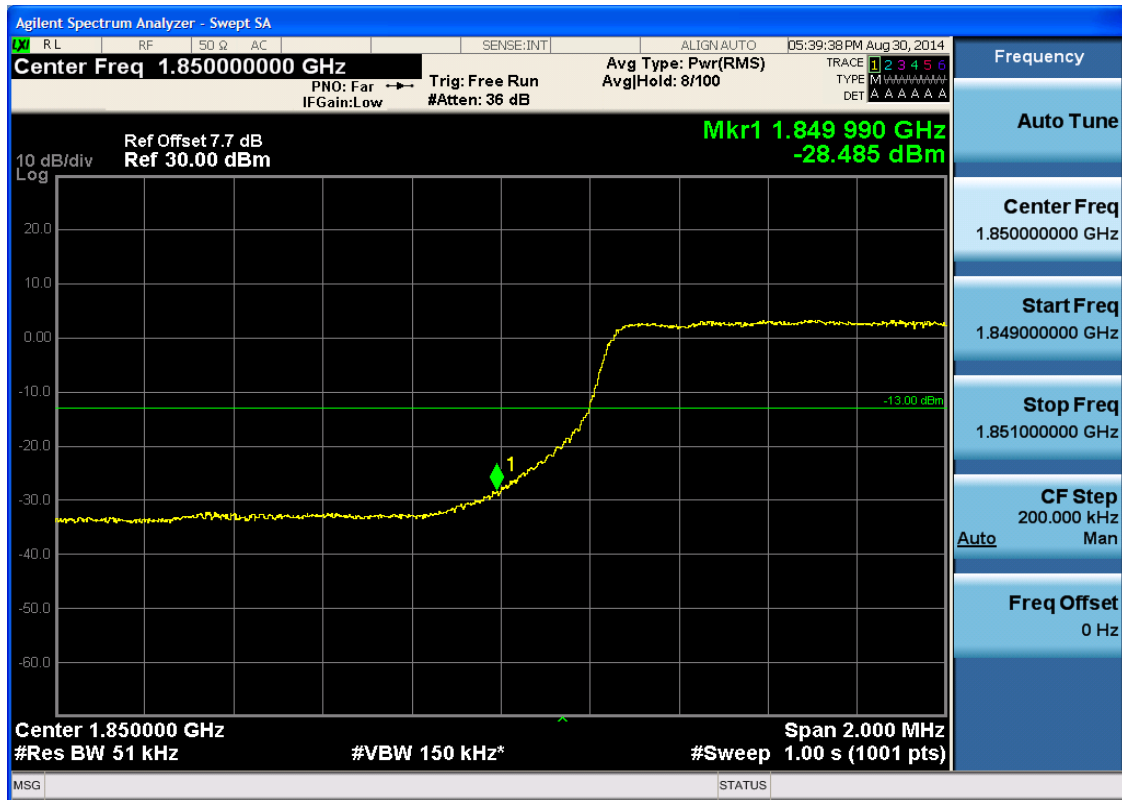


5.1.1.2.3.1.3 Test RB = RB12#6





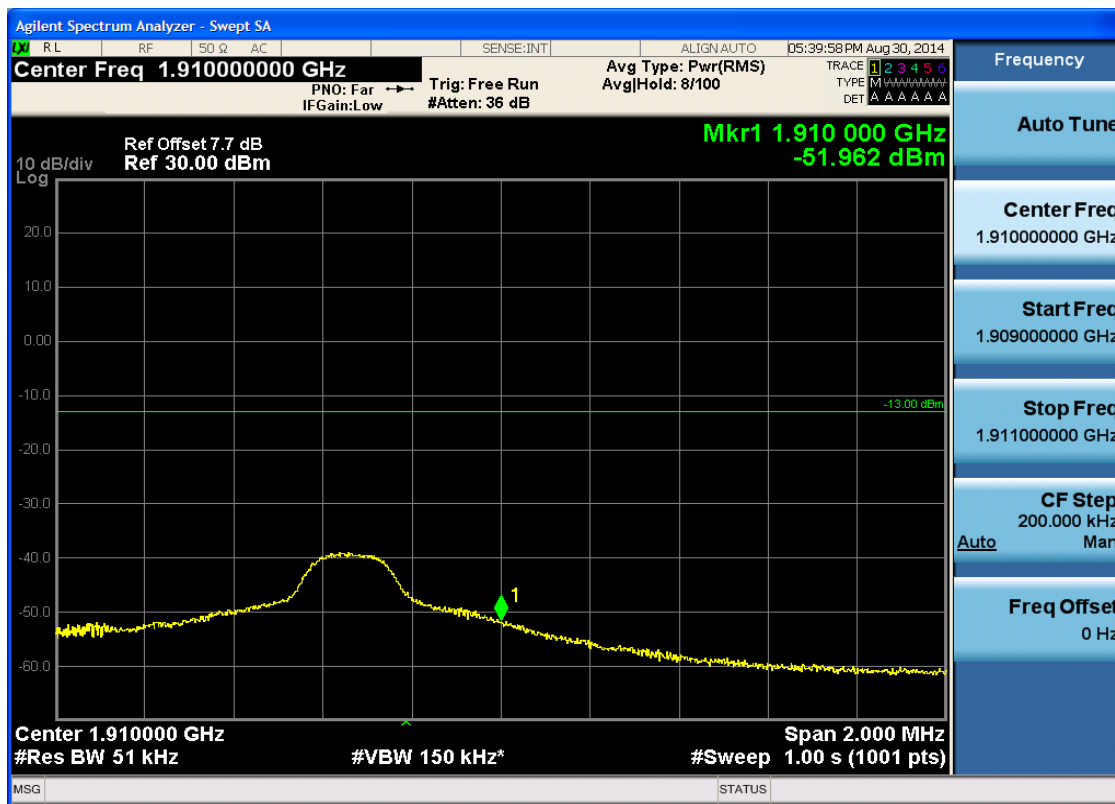
5.1.1.2.3.1.4 Test RB = RB25#0





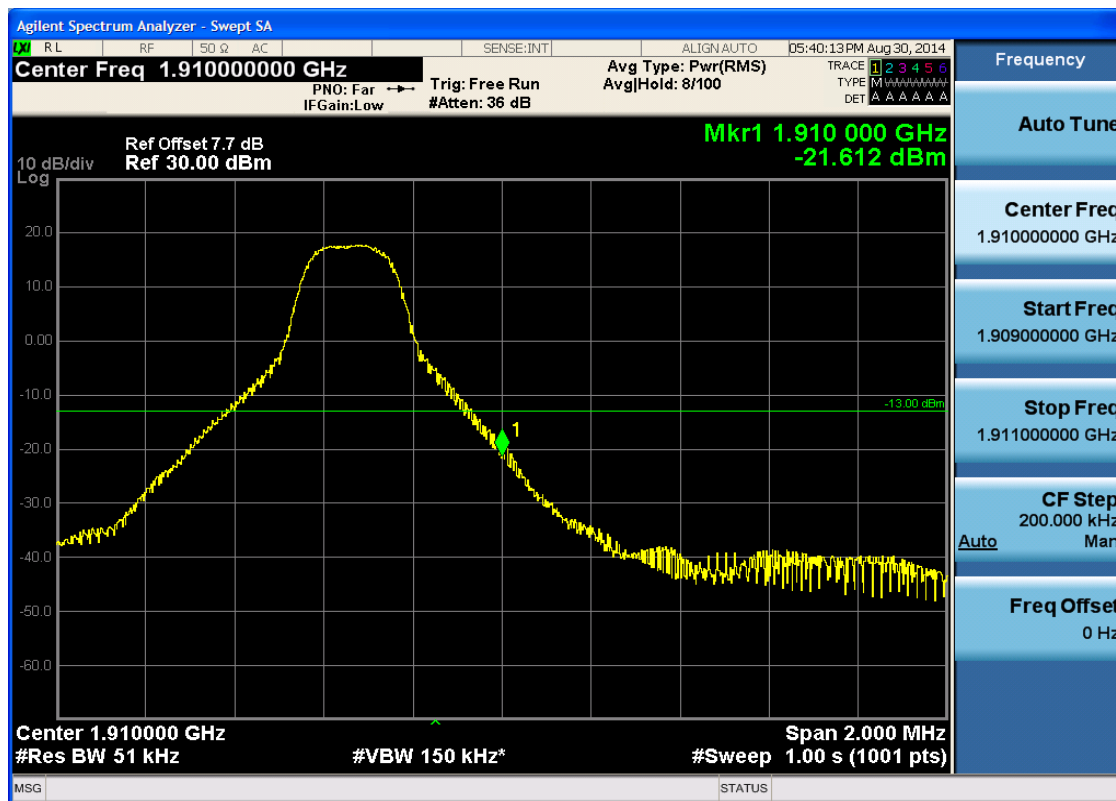
5.1.1.2.3.2 Test Channel = HCH

5.1.1.2.3.2.1 Test RB = RB1#0



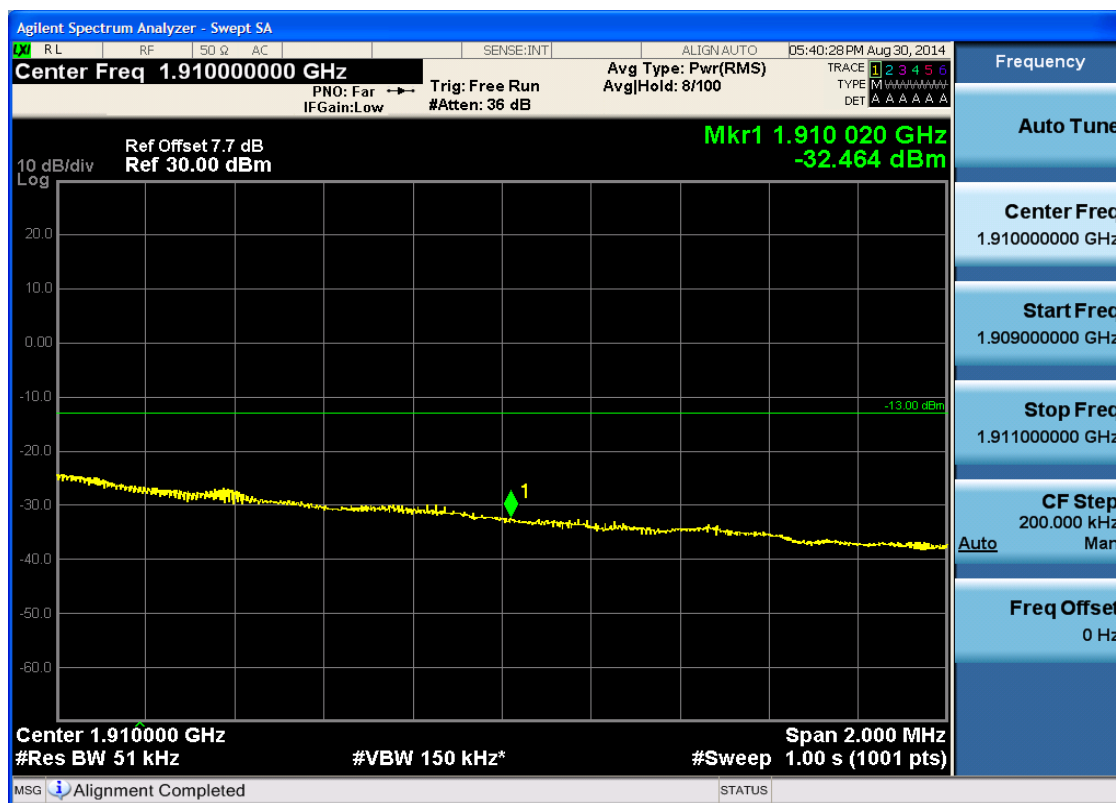


5.1.1.2.3.2.2 Test RB = RB1#24





5.1.1.2.3.2.3 Test RB = RB12#6





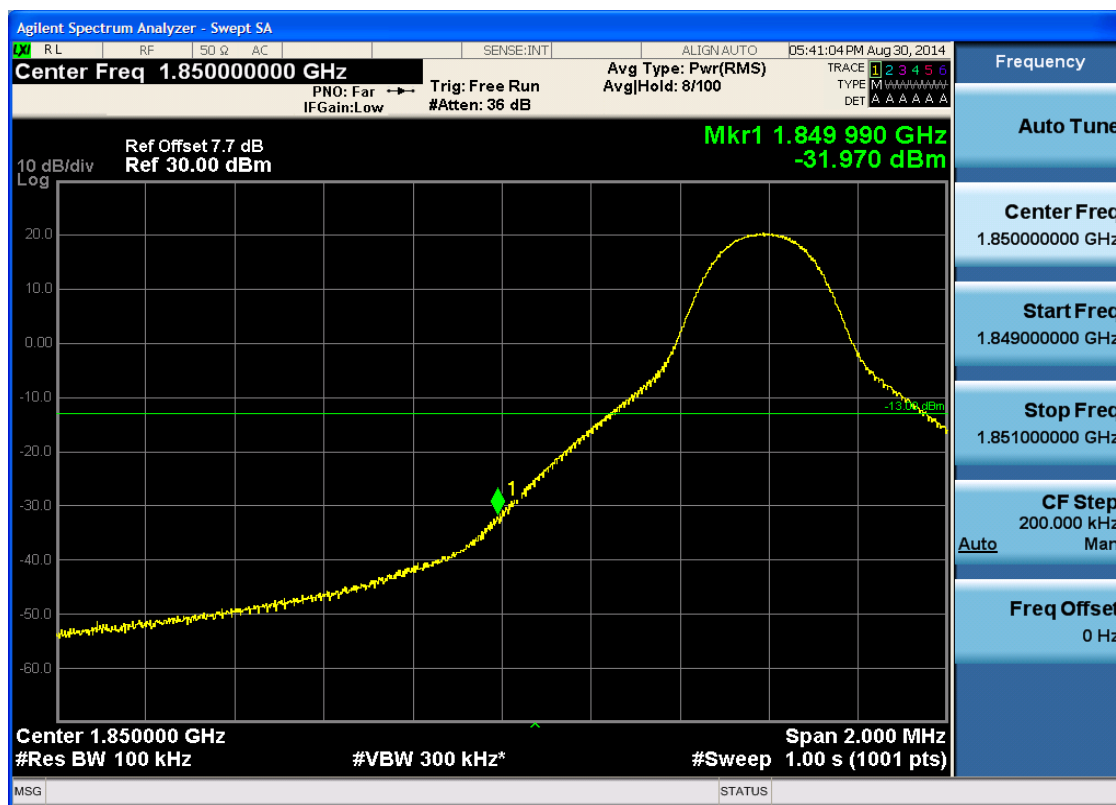
5.1.1.2.3.2.4 Test RB = RB25#0



5.1.1.2.4 Test Bandwidth = 10

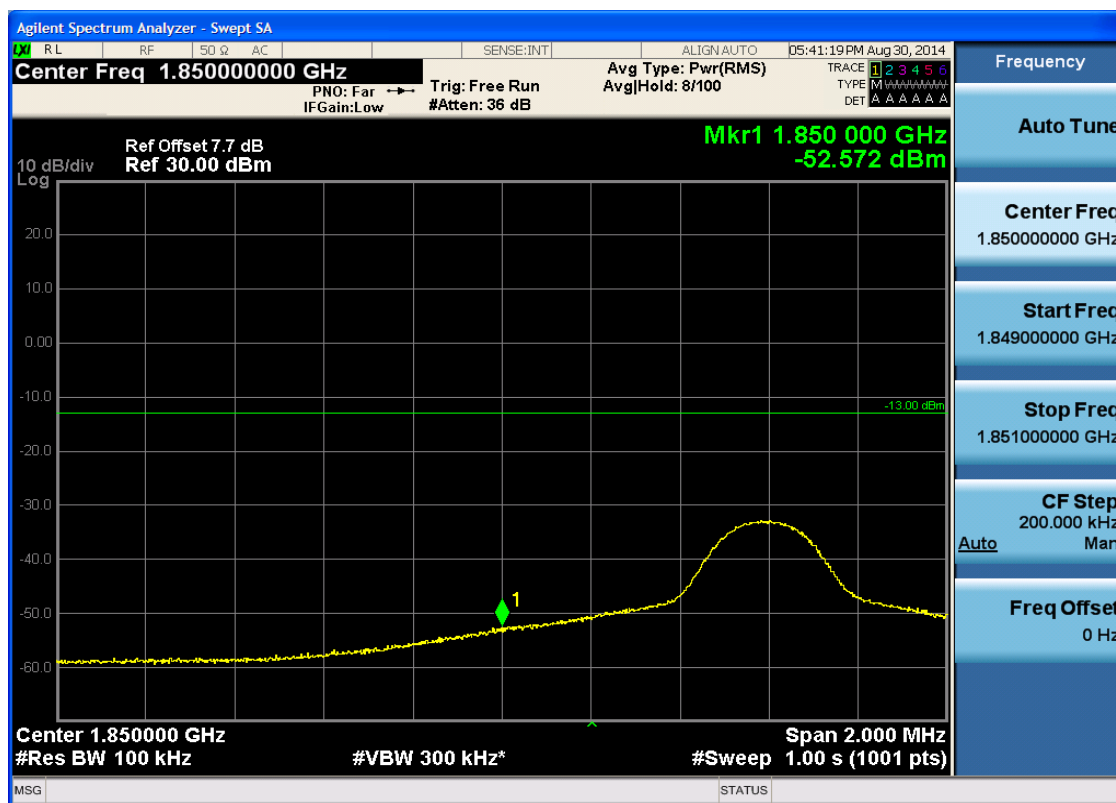
5.1.1.2.4.1 Test Channel = LCH

5.1.1.2.4.1.1 Test RB = RB1#0



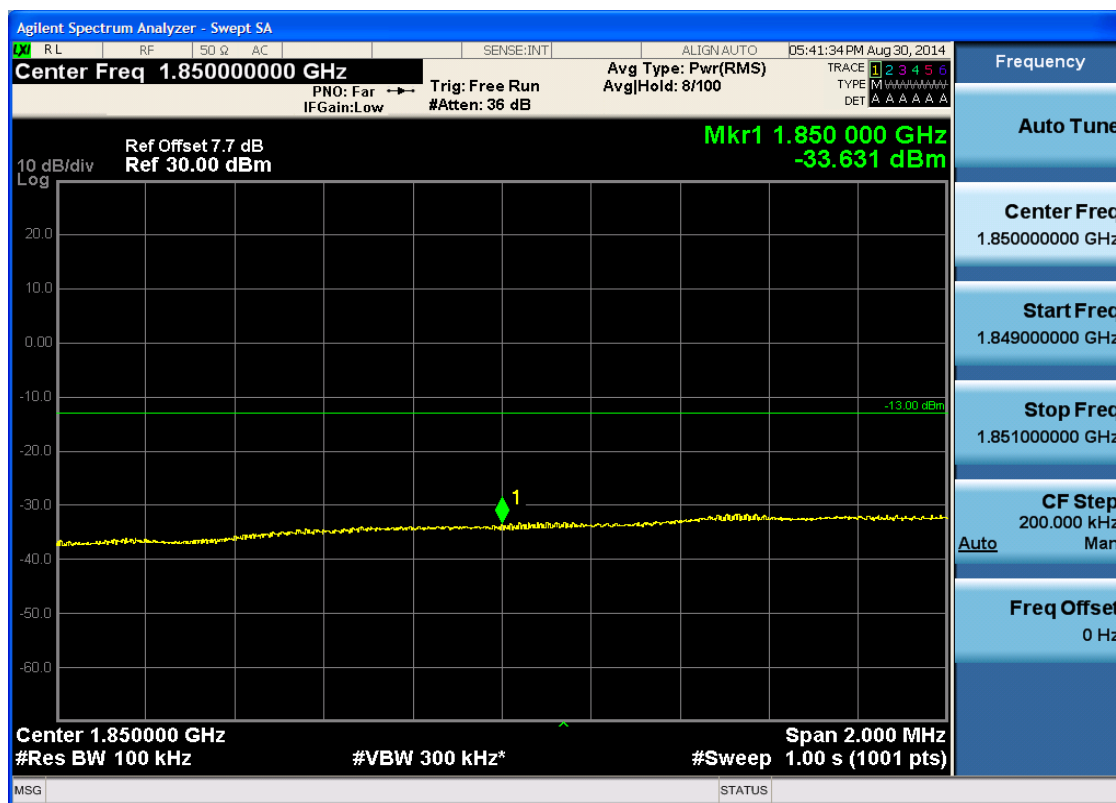


5.1.1.2.4.1.2 Test RB = RB1#49



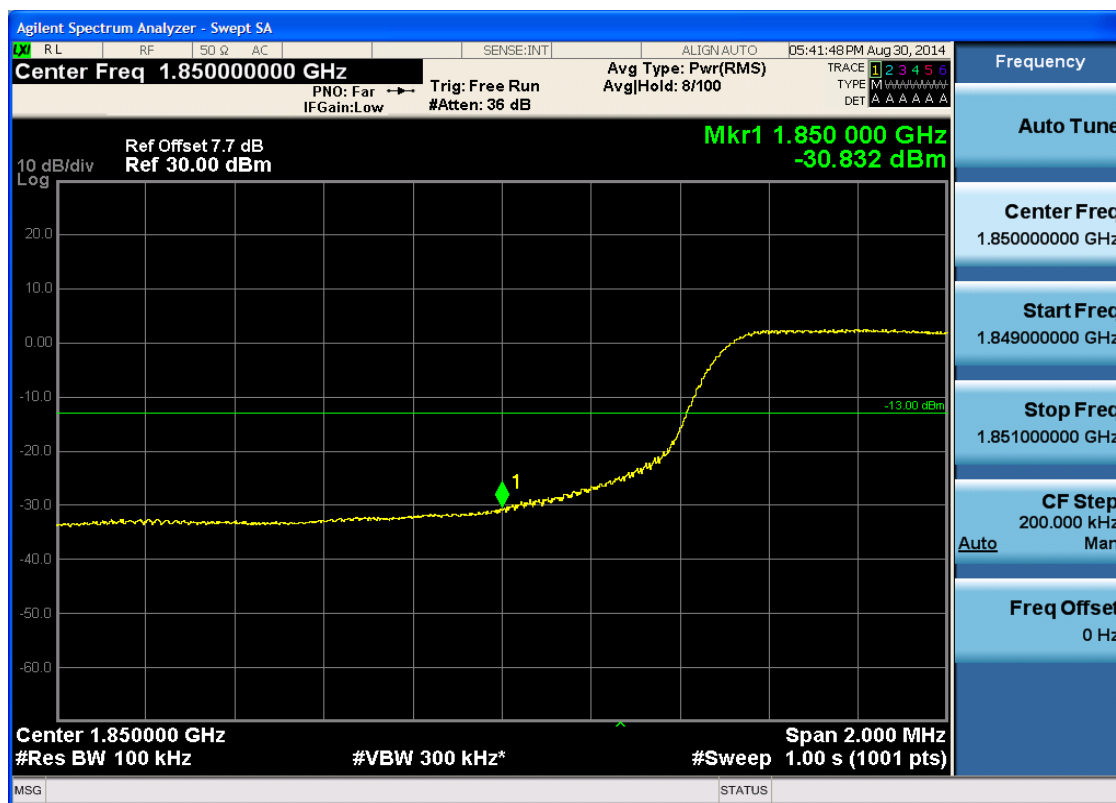


5.1.1.2.4.1.3 Test RB = RB25#13





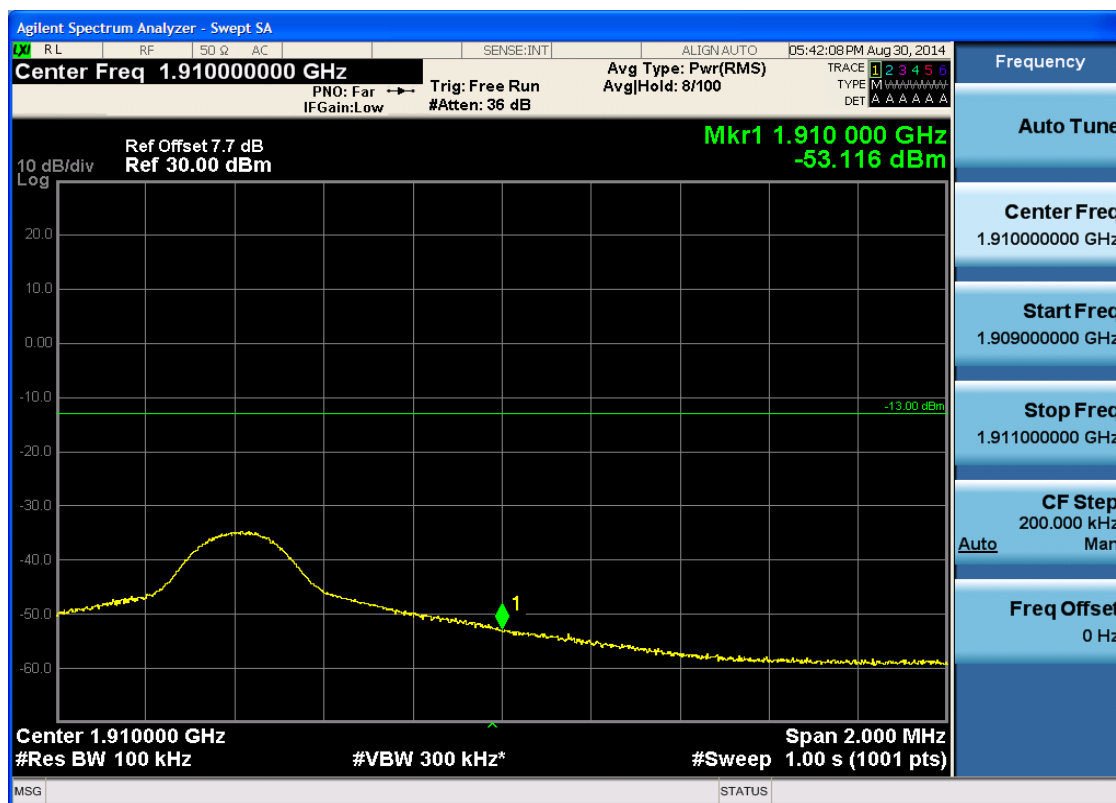
5.1.1.2.4.1.4 Test RB = RB50#0





5.1.1.2.4.2 Test Channel = HCH

5.1.1.2.4.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

☒ R L RF 50 Ω AC SENSE:INT ALIGN:AUTO 05:42:23 PM Aug 30, 2014

Center Freq 1.91000000 GHz PNO: Far → Trig: Free Run Avg Type: Pwr(RMS) TRACE 1 2 3 4 5 6
 IF Gain: Low #Atten: 36 dB Avg|Hold: 8/100 TYPE M W U I D S DET A A A A A A

Ref Offset 7.7 dB **Mkr1 1.910 000 GHz**
 Ref 30.00 dBm **-31.150 dBm**

10 dB/div
Log

20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0

-13.00 dBm

1

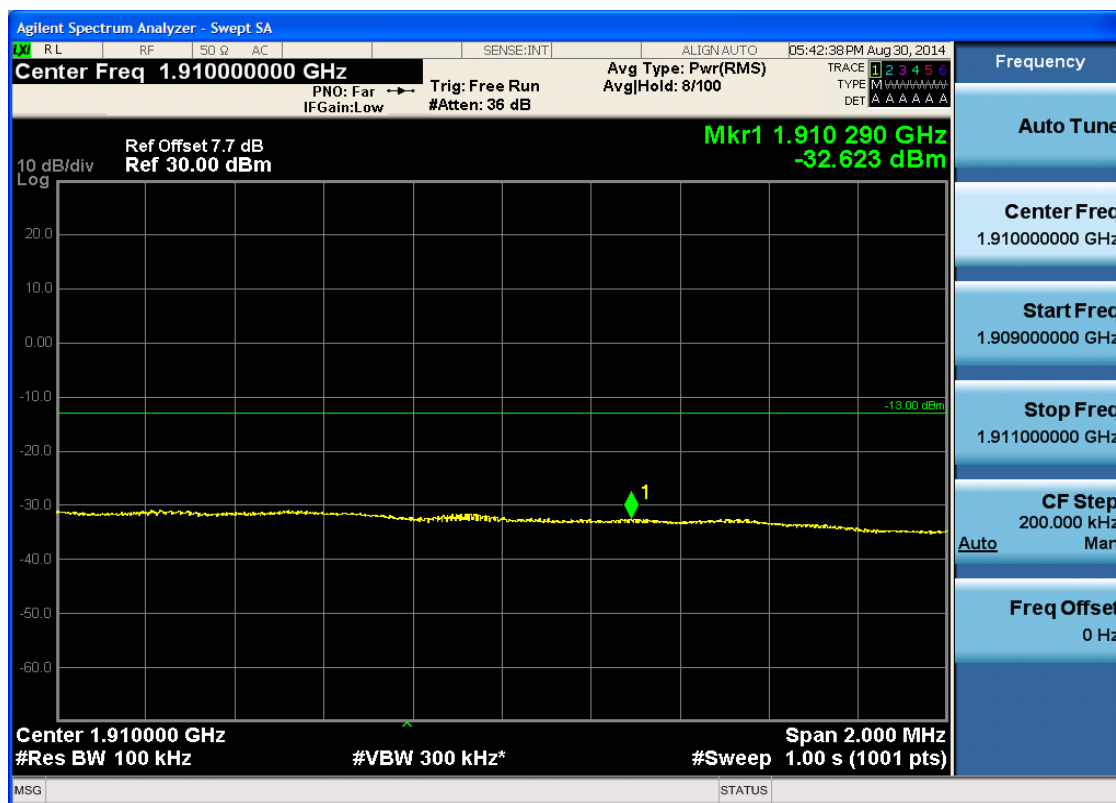
Center 1.910000 GHz **Span 2.000 MHz**
#Res BW 100 kHz **#VBW 300 kHz*** **#Sweep 1.00 s (1001 pts)**

MSG STATUS

Frequency
 Auto Tune
 Center Freq
 1.910000000 GHz
 Start Freq
 1.909000000 GHz
 Stop Freq
 1.911000000 GHz
 CF Step
 200.000 kHz
 Auto Man
 Freq Offset
 0 Hz

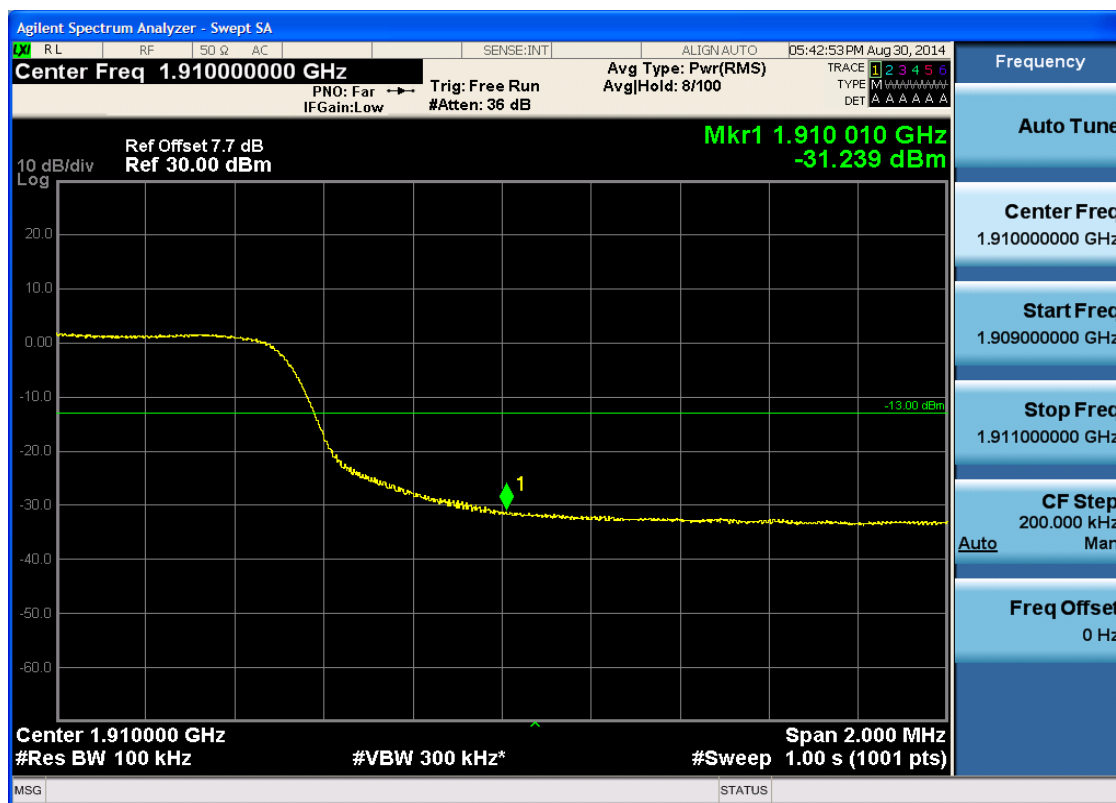


5.1.1.2.4.2.3 Test RB = RB25#13





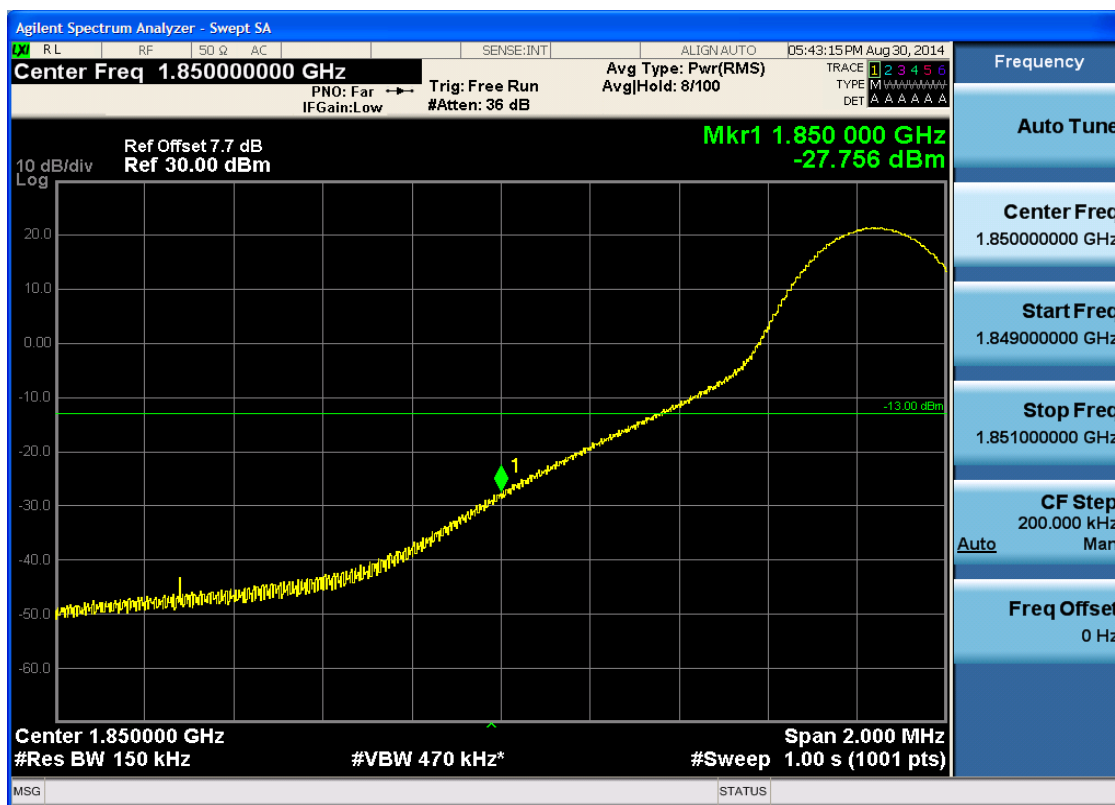
5.1.1.2.4.2.4 Test RB = RB50#0



5.1.1.2.5 Test Bandwidth = 15

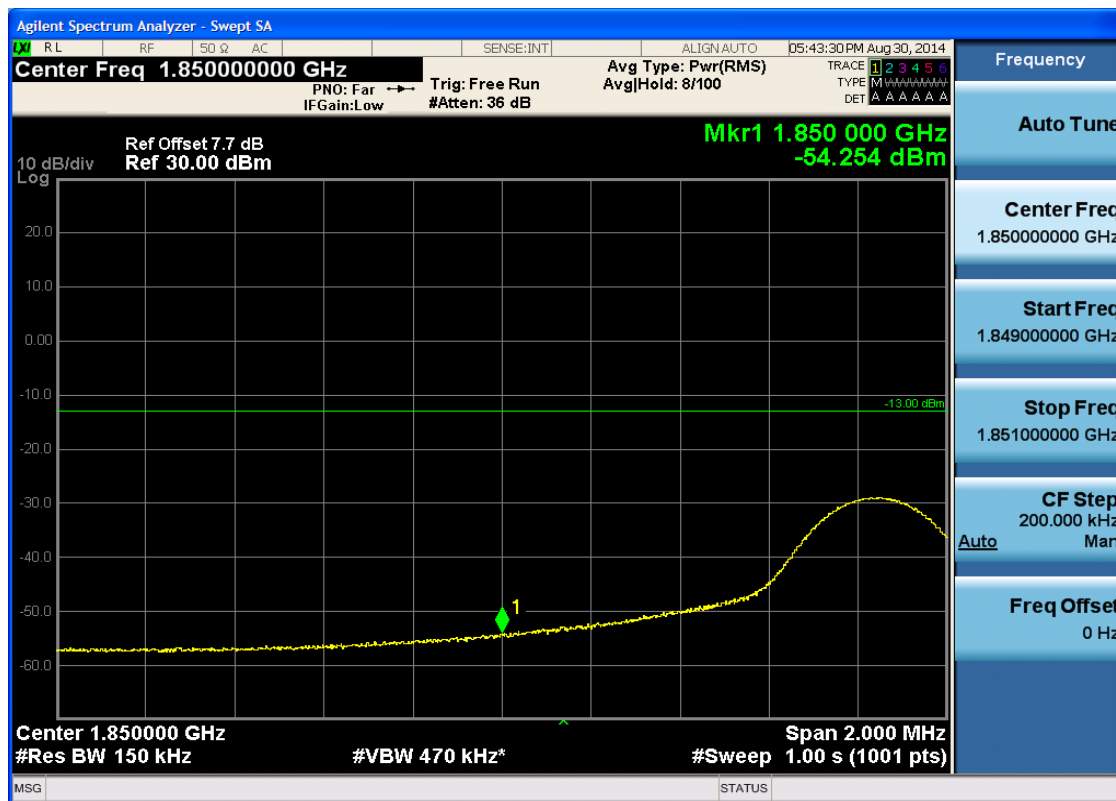
5.1.1.2.5.1 Test Channel = LCH

5.1.1.2.5.1.1 Test RB = RB1#0



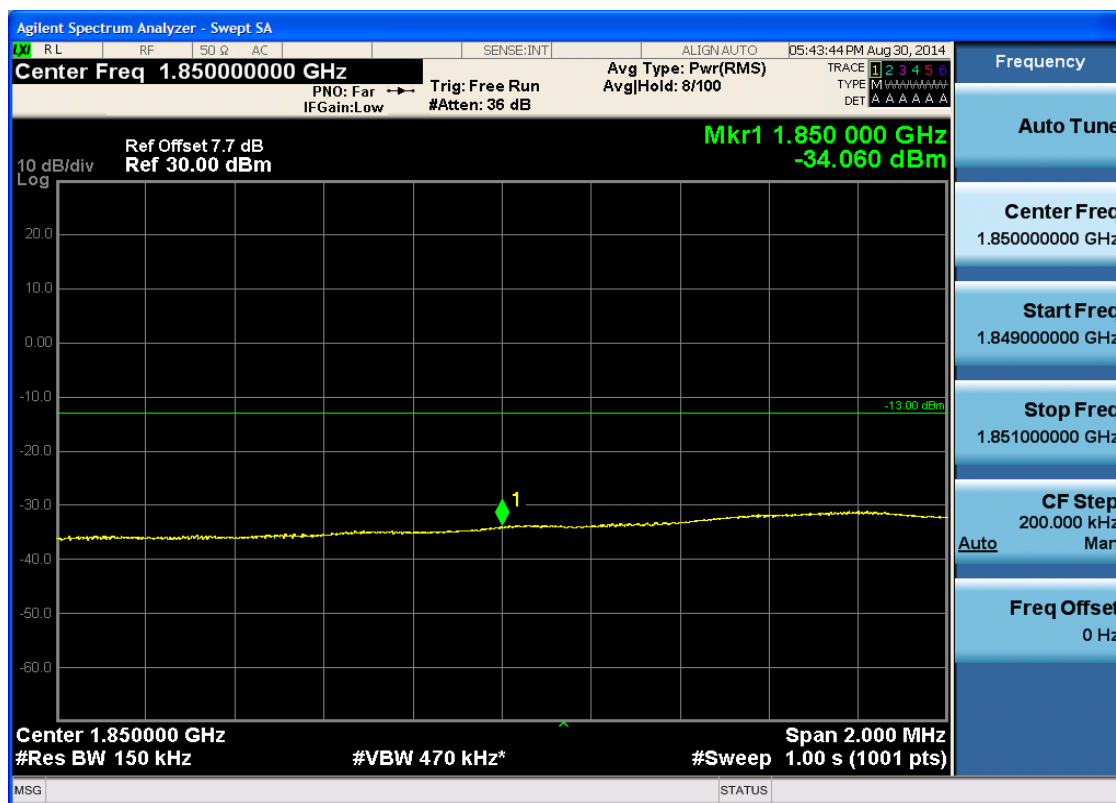


5.1.1.2.5.1.2 Test RB = RB1#74



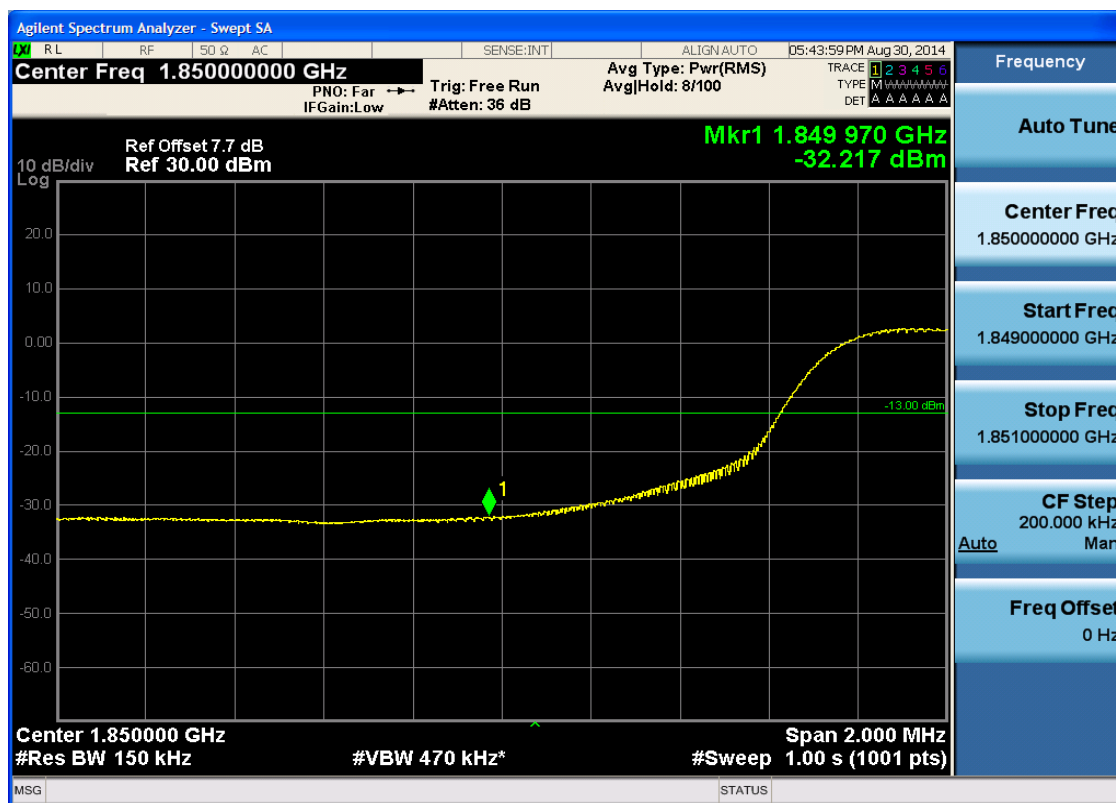


5.1.1.2.5.1.3 Test RB = RB38#19





5.1.1.2.5.1.4 Test RB = RB75#0





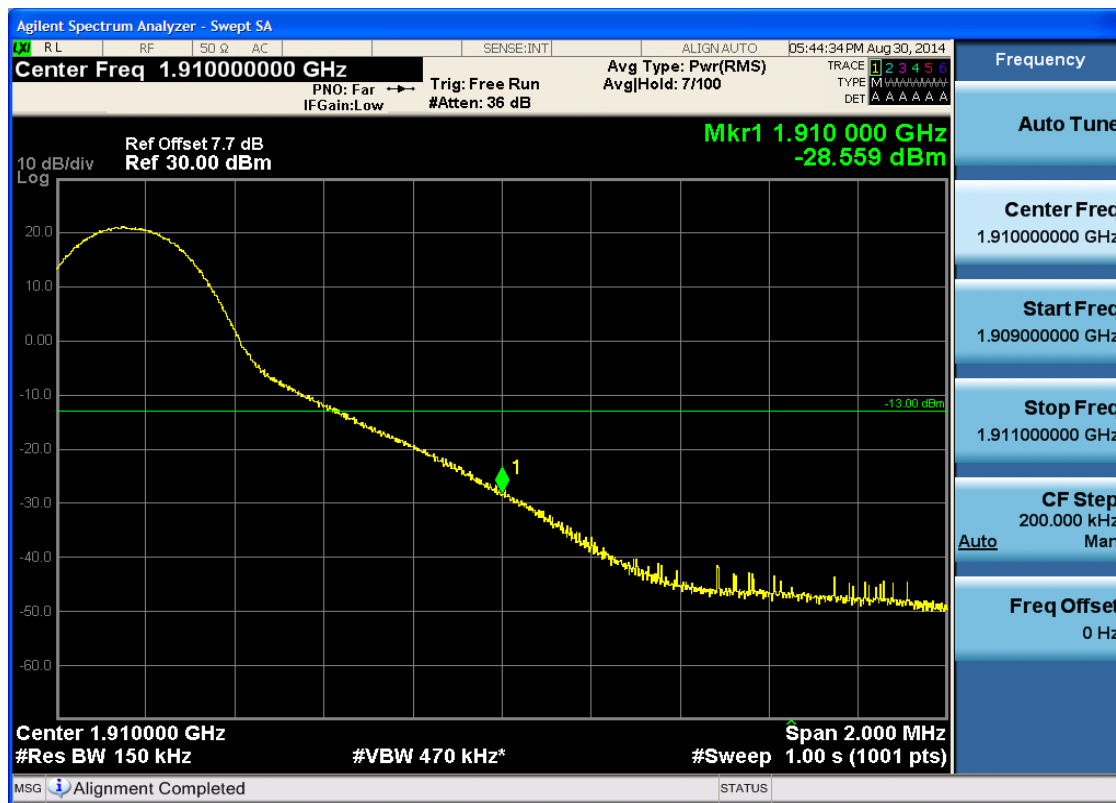
5.1.1.2.5.2 Test Channel = HCH

5.1.1.2.5.2.1 Test RB = RB1#0





5.1.1.2.5.2.2 Test RB = RB1#74



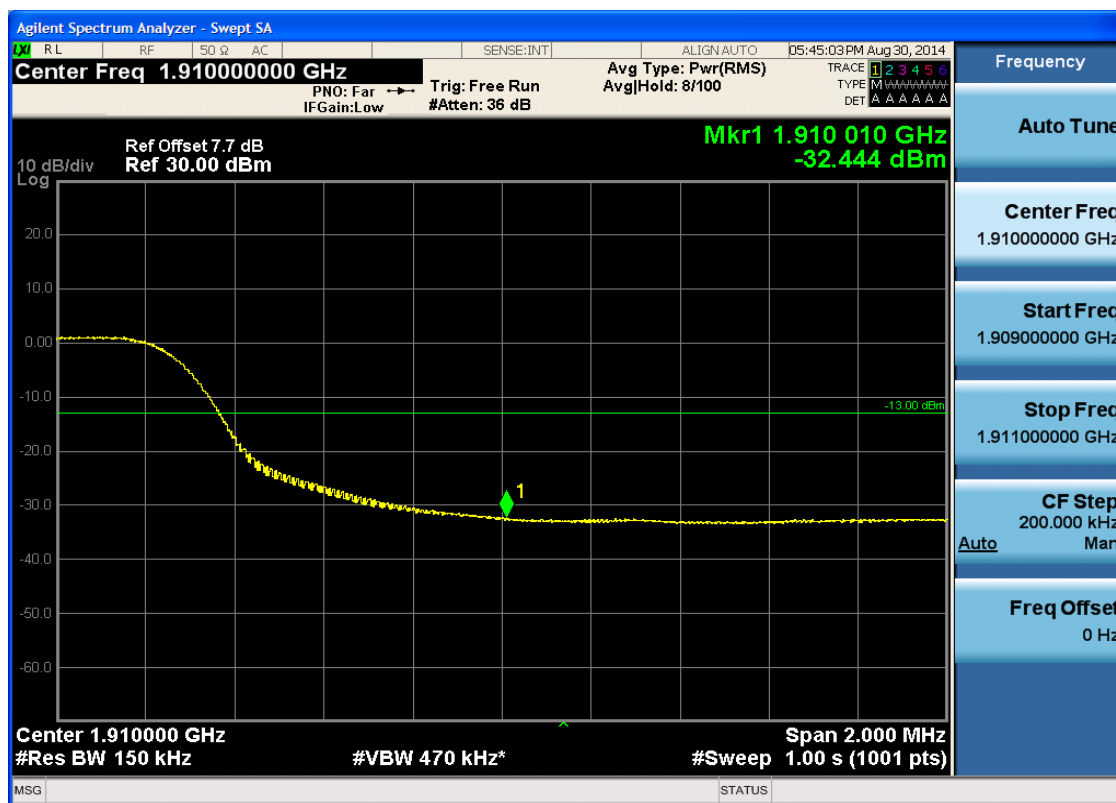


5.1.1.2.5.2.3 Test RB = RB38#19





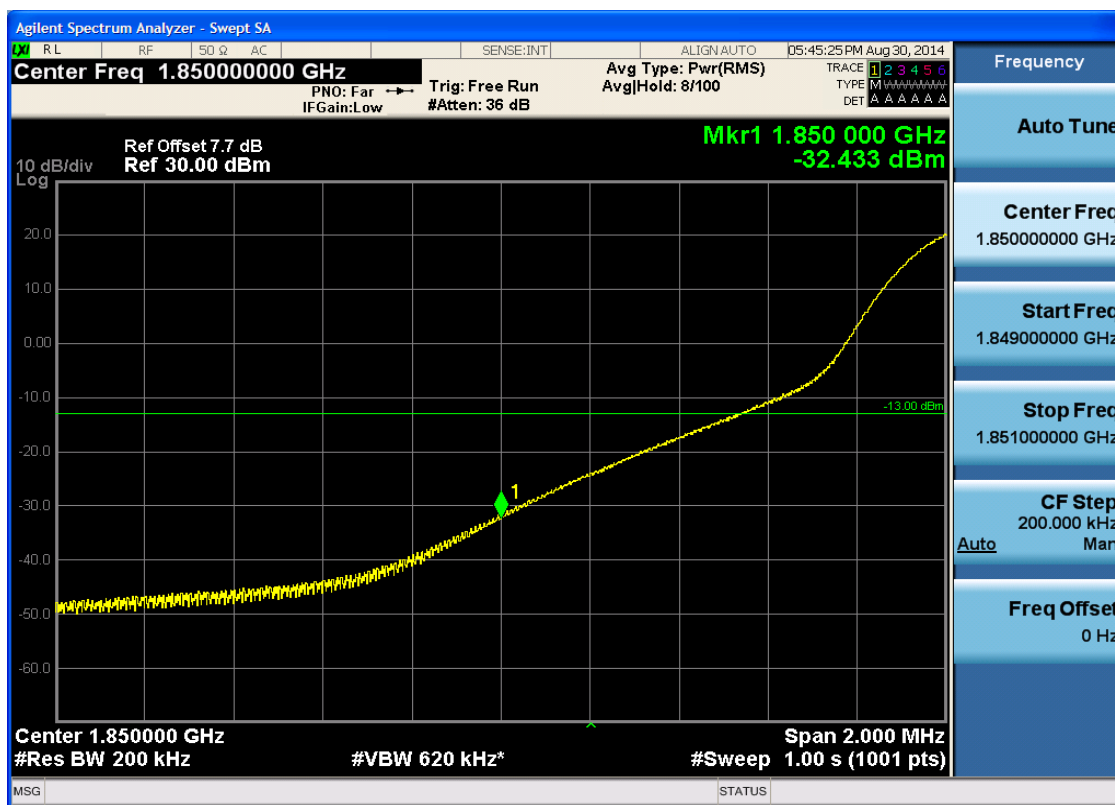
5.1.1.2.5.2.4 Test RB = RB75#0



5.1.1.2.6 Test Bandwidth = 20

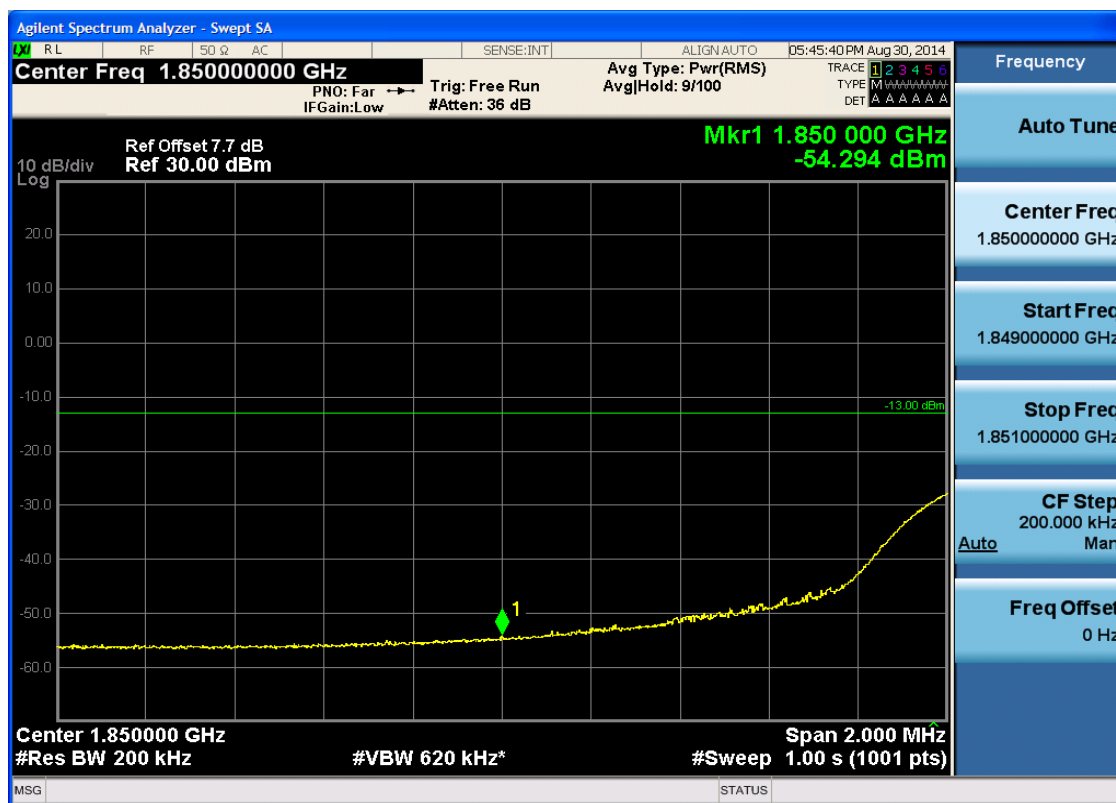
5.1.1.2.6.1 Test Channel = LCH

5.1.1.2.6.1.1 Test RB = RB1#0





5.1.1.2.6.1.2 Test RB = RB1#99



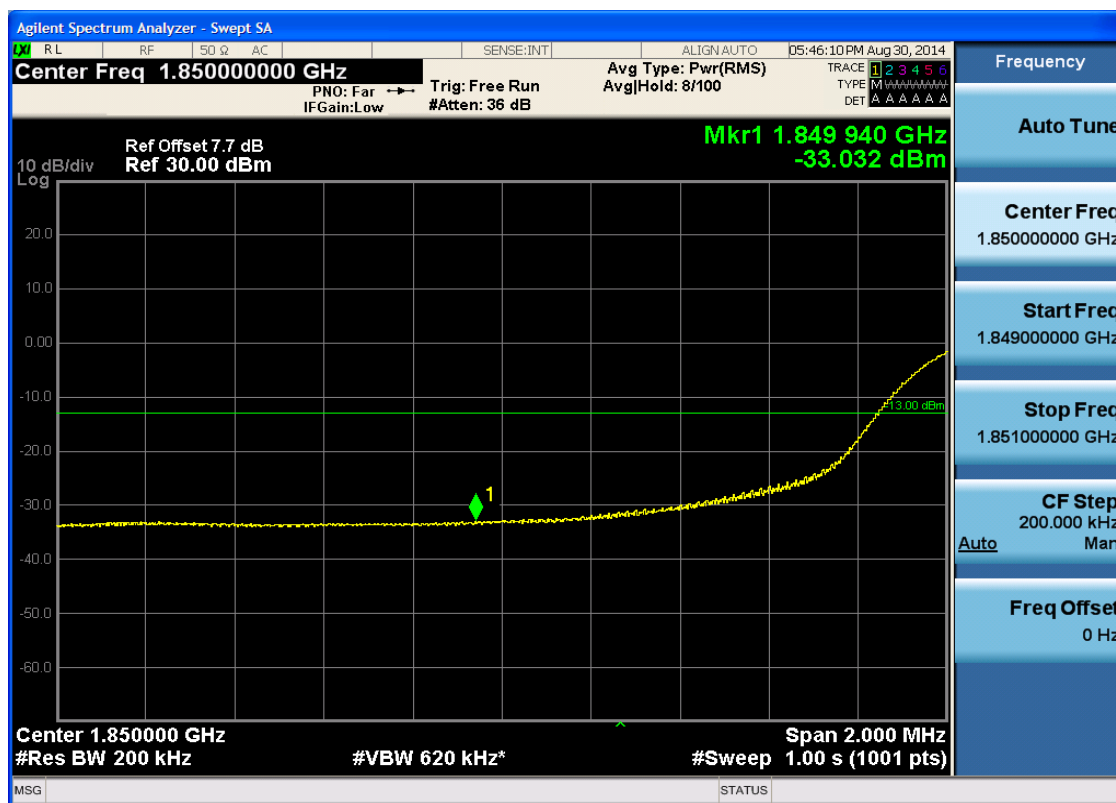


5.1.1.2.6.1.3 Test RB = RB50#25





5.1.1.2.6.1.4 Test RB = RB100#0





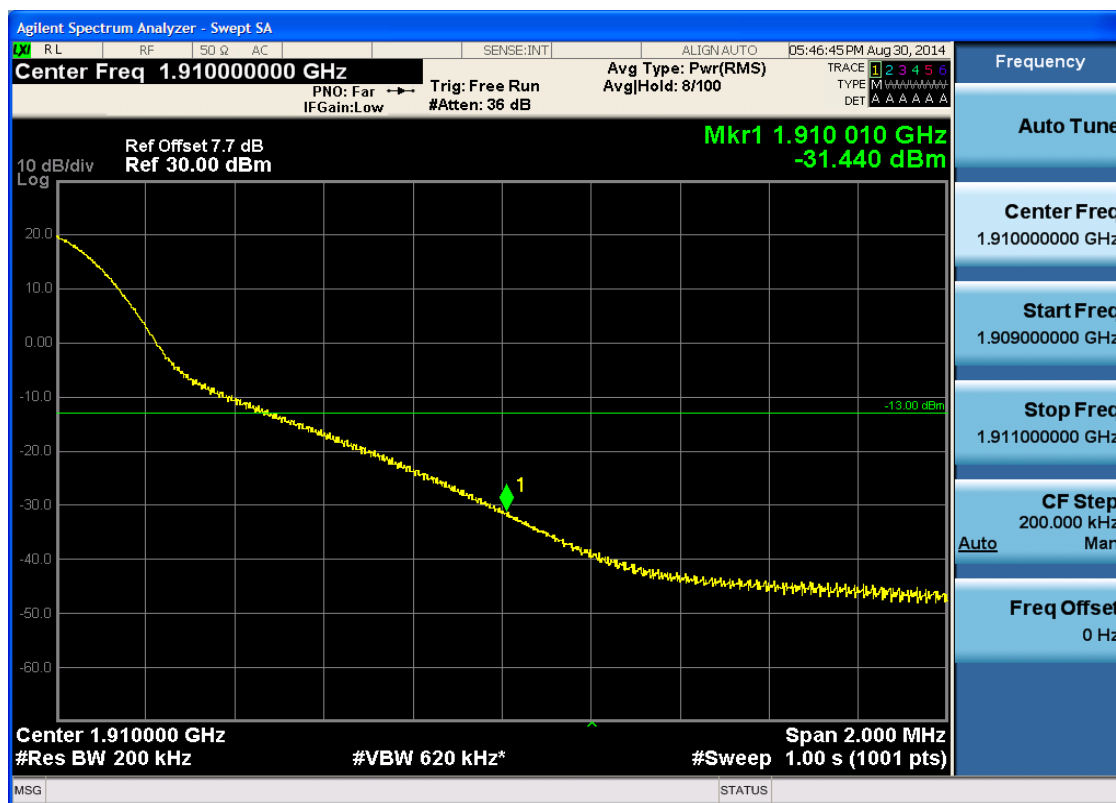
5.1.1.2.6.2 Test Channel = HCH

5.1.1.2.6.2.1 Test RB = RB1#0



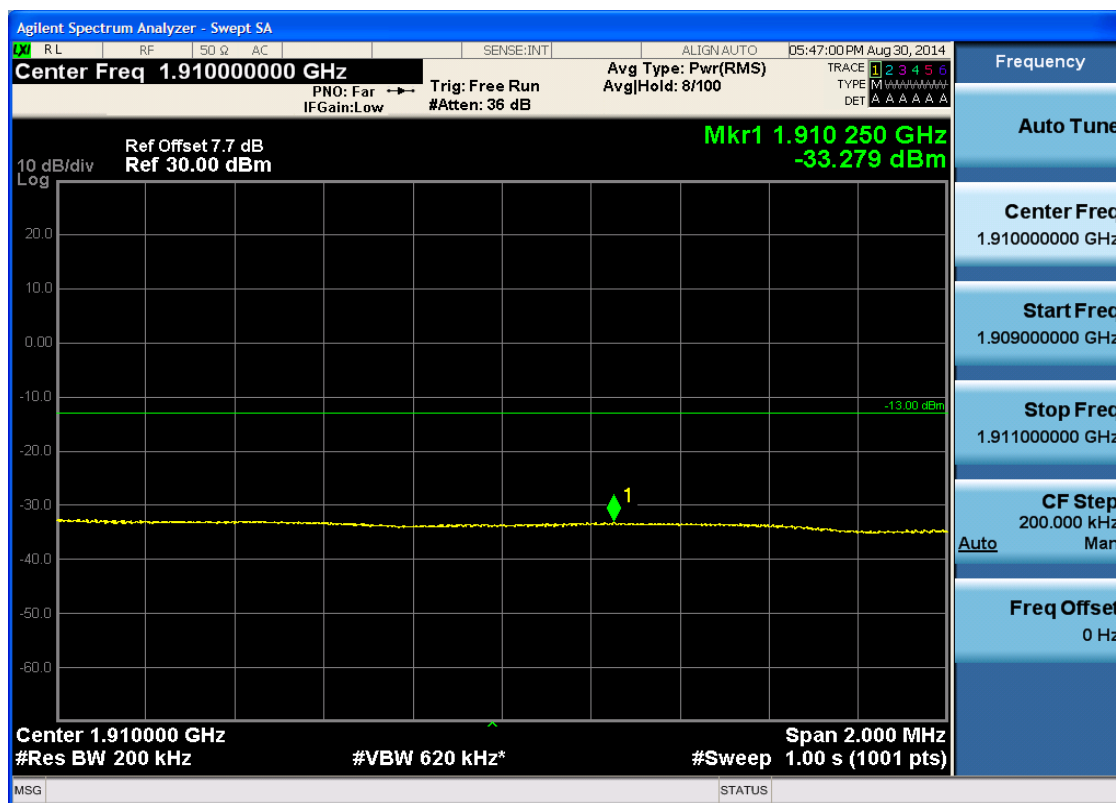


5.1.1.2.6.2.2 Test RB = RB1#99



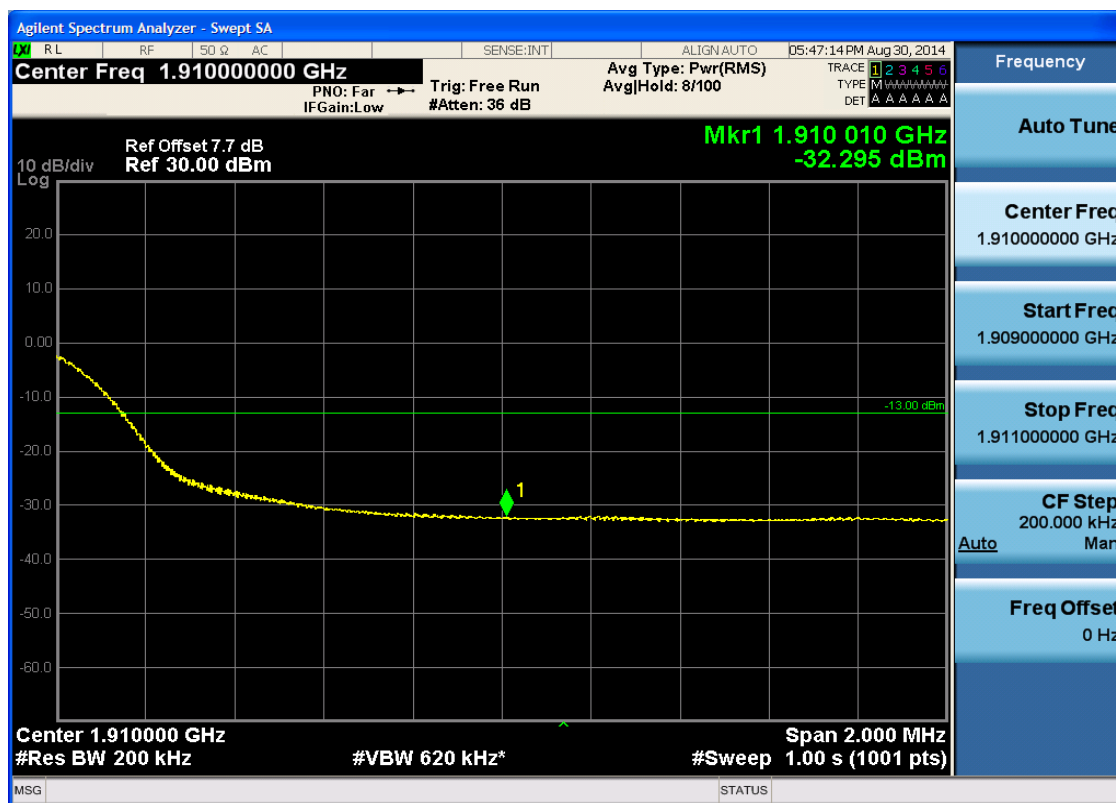


5.1.1.2.6.2.3 Test RB = RB50#25





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

6.1 For LTE

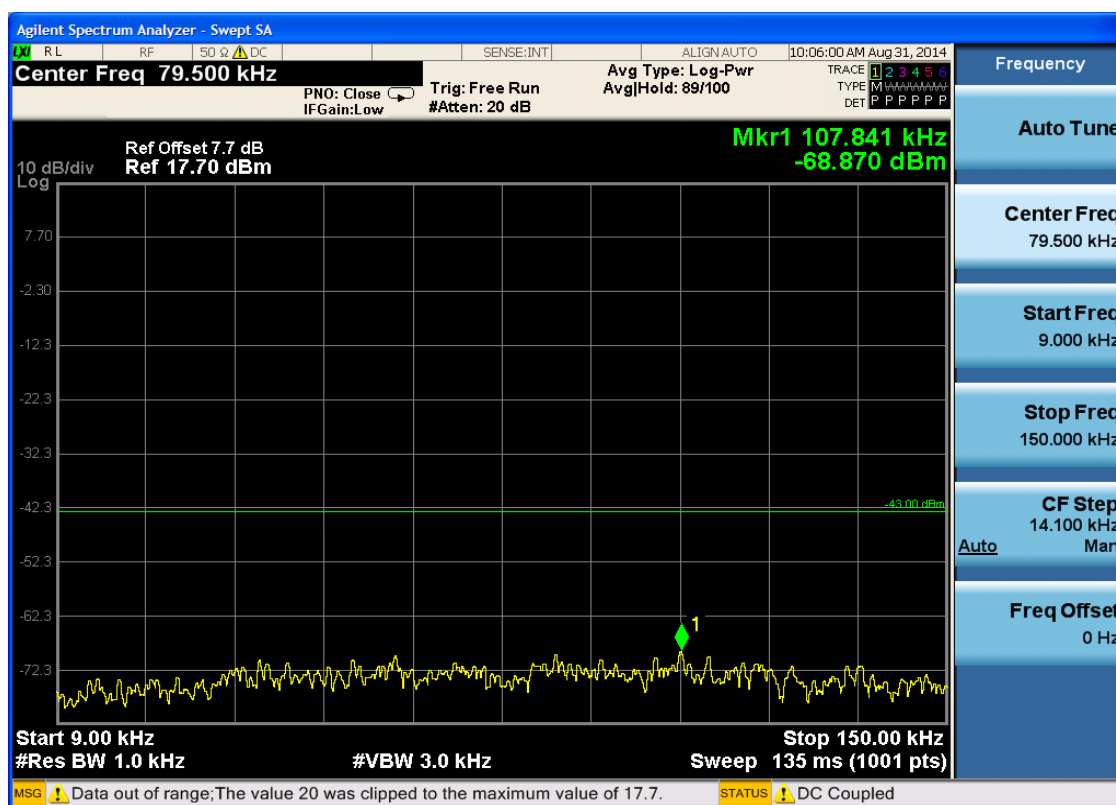
6.1.3 Test Band = BAND2

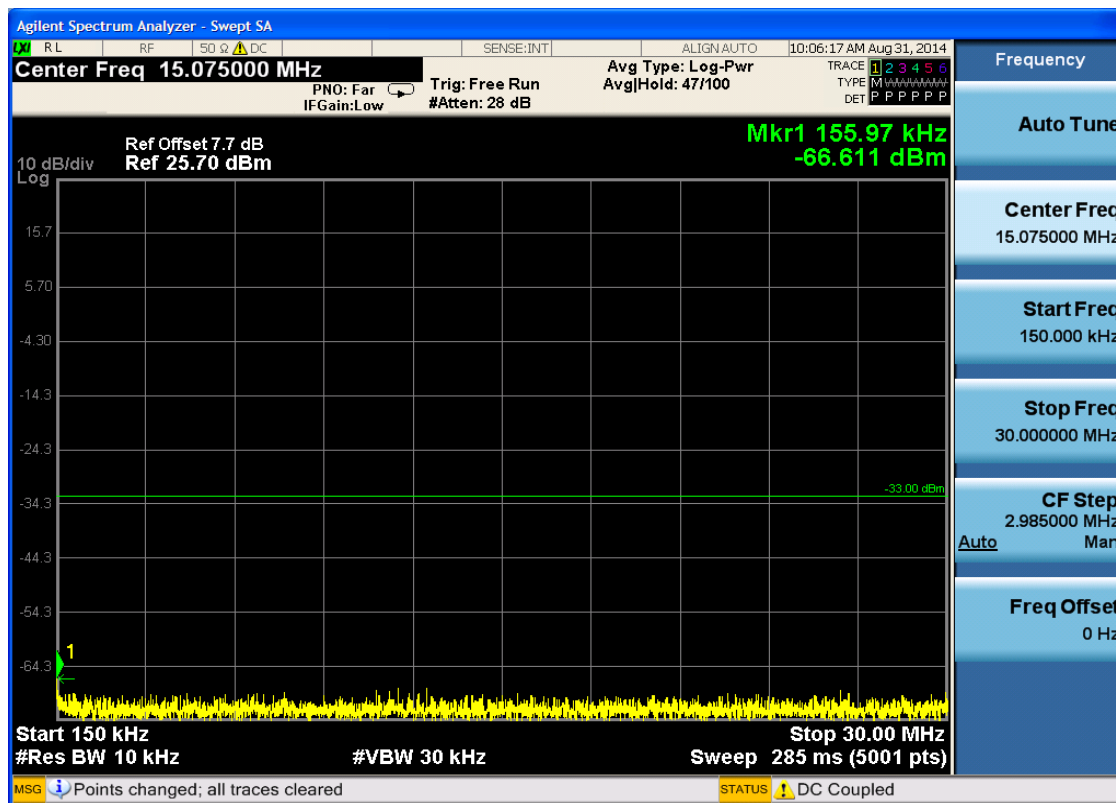
6.1.3.1 Test Mode = LTE/TM1

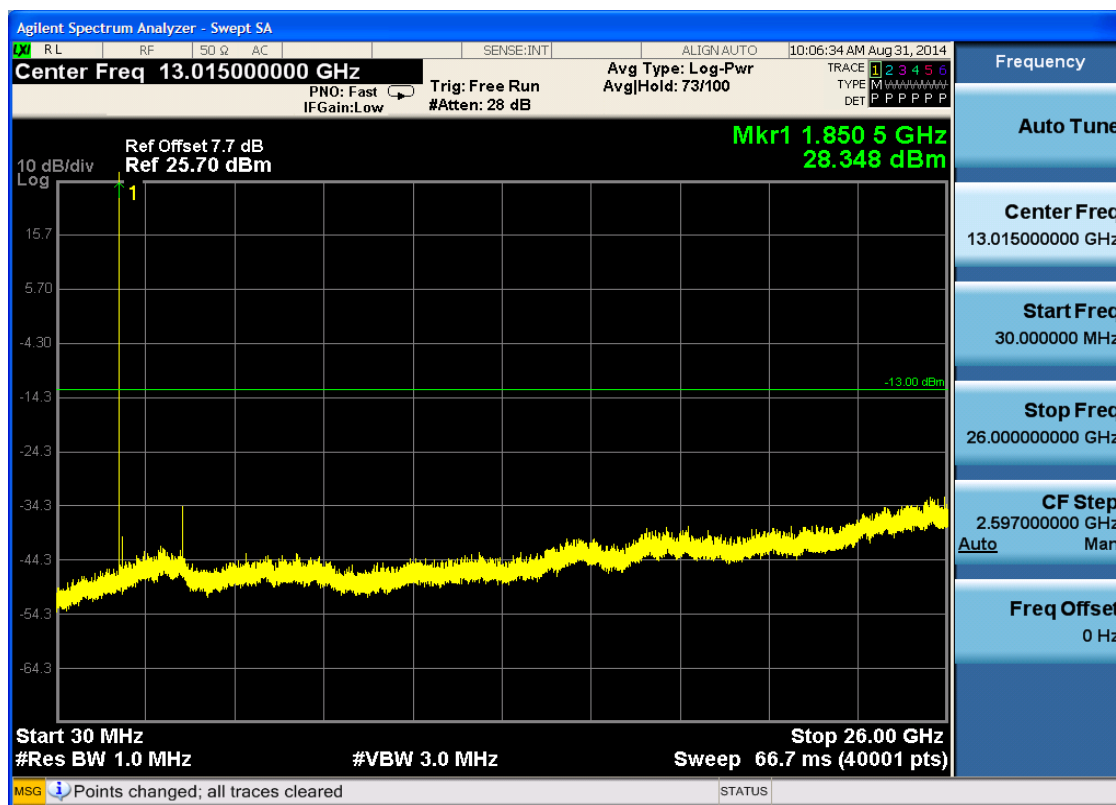
6.1.3.1.1 Test Bandwidth = 1.4

6.1.3.1.1.1 Test Channel = LCH

6.1.3.1.1.1.1 Test RB = RB1#0

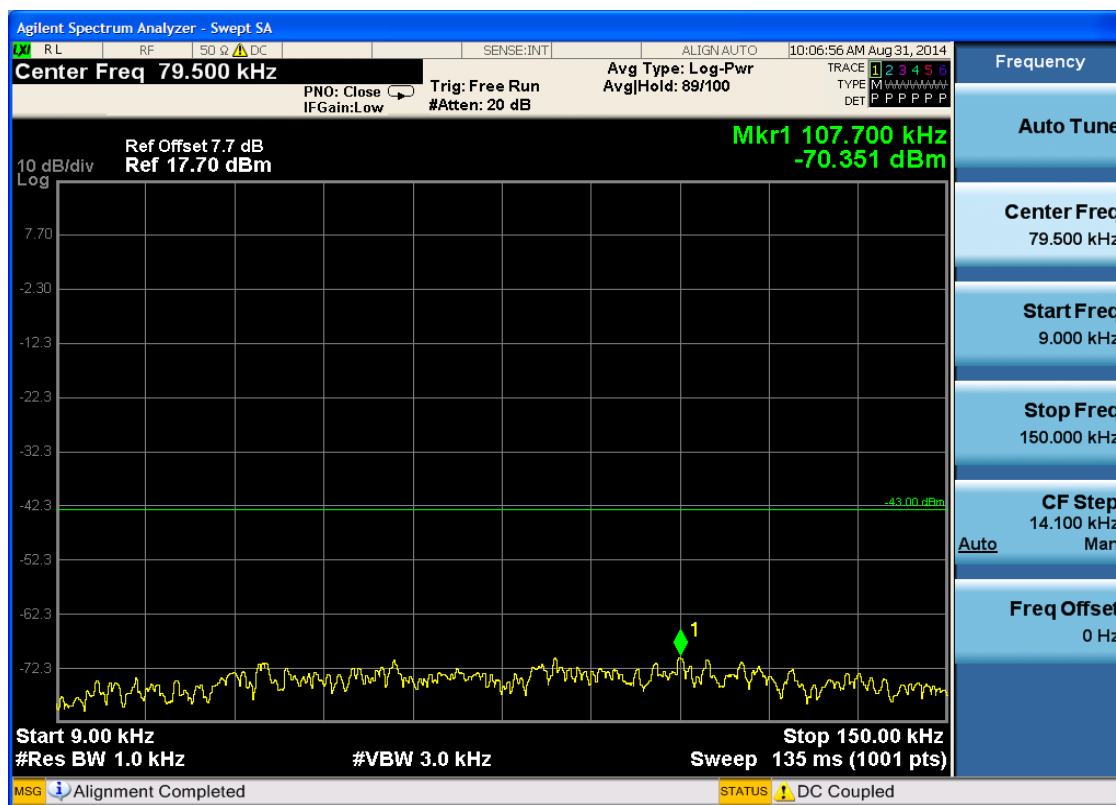


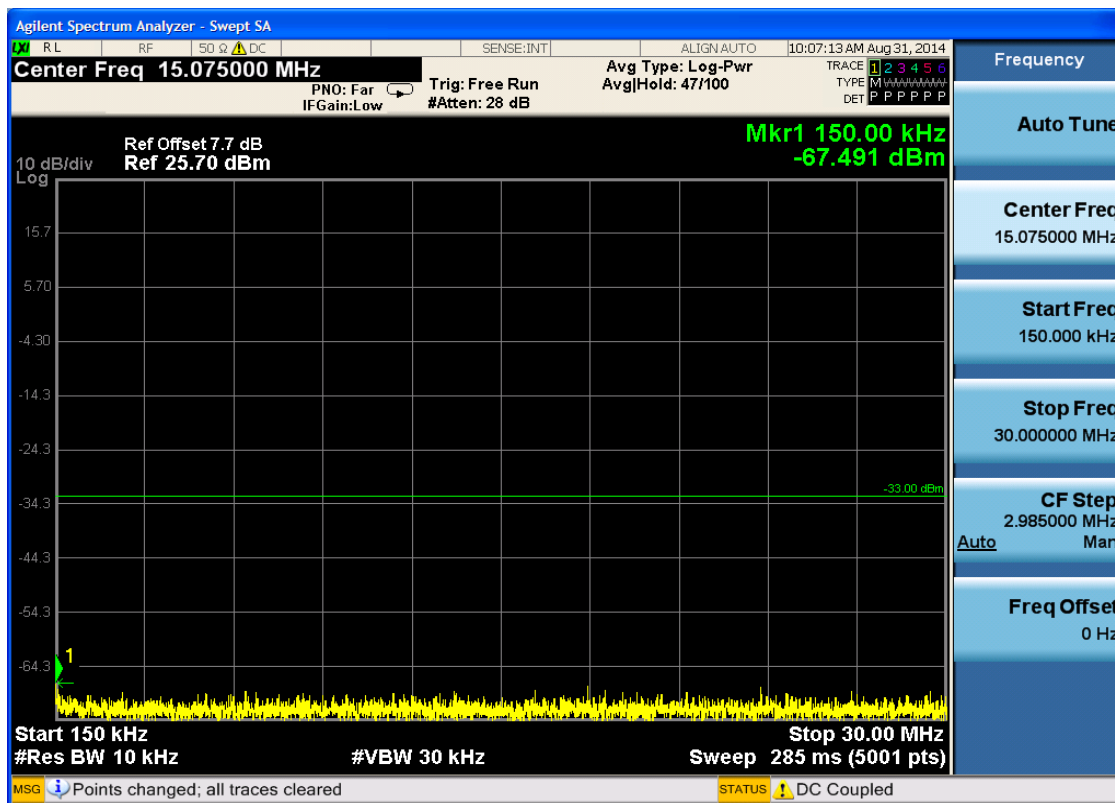


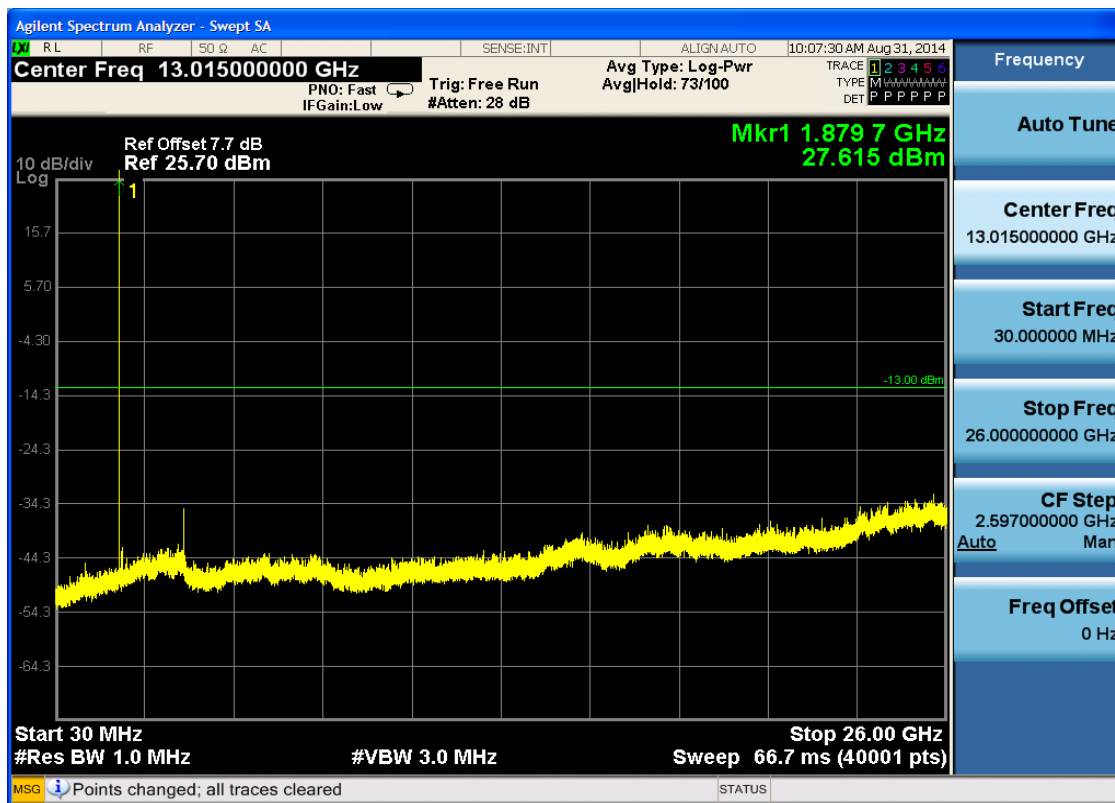


6.1.3.1.1.2 Test Channel = MCH

6.1.3.1.1.2.1 Test RB = RB1#0

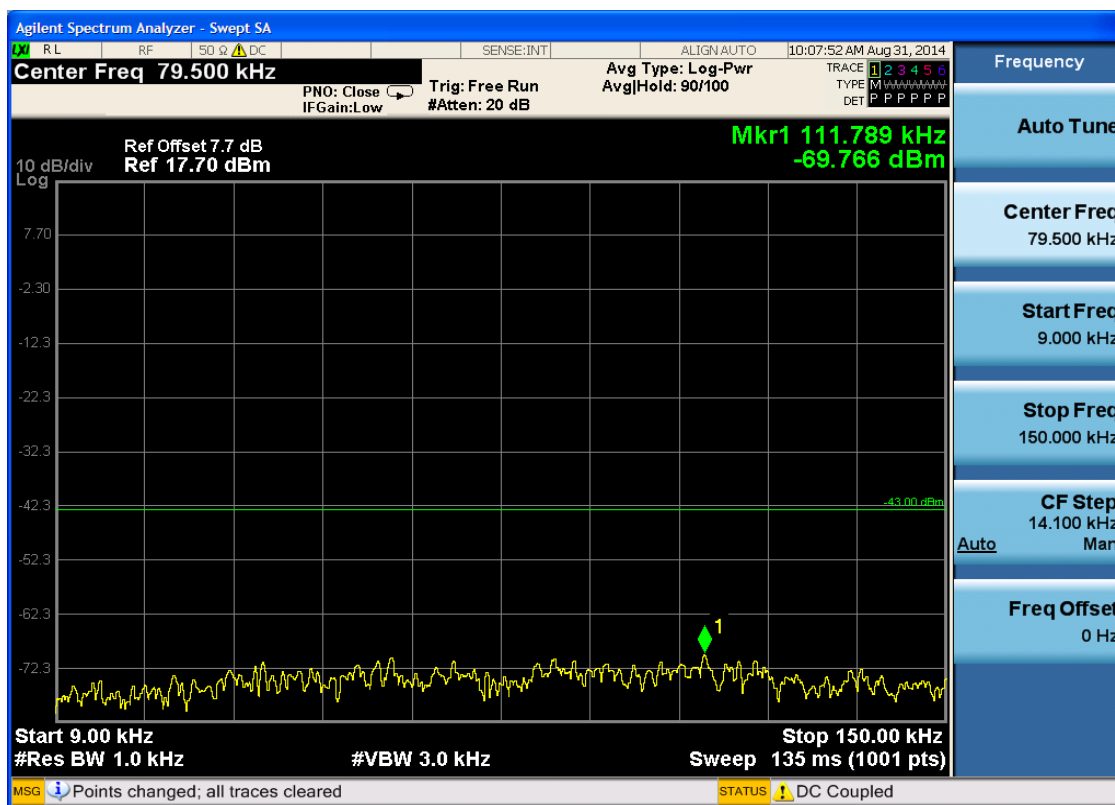


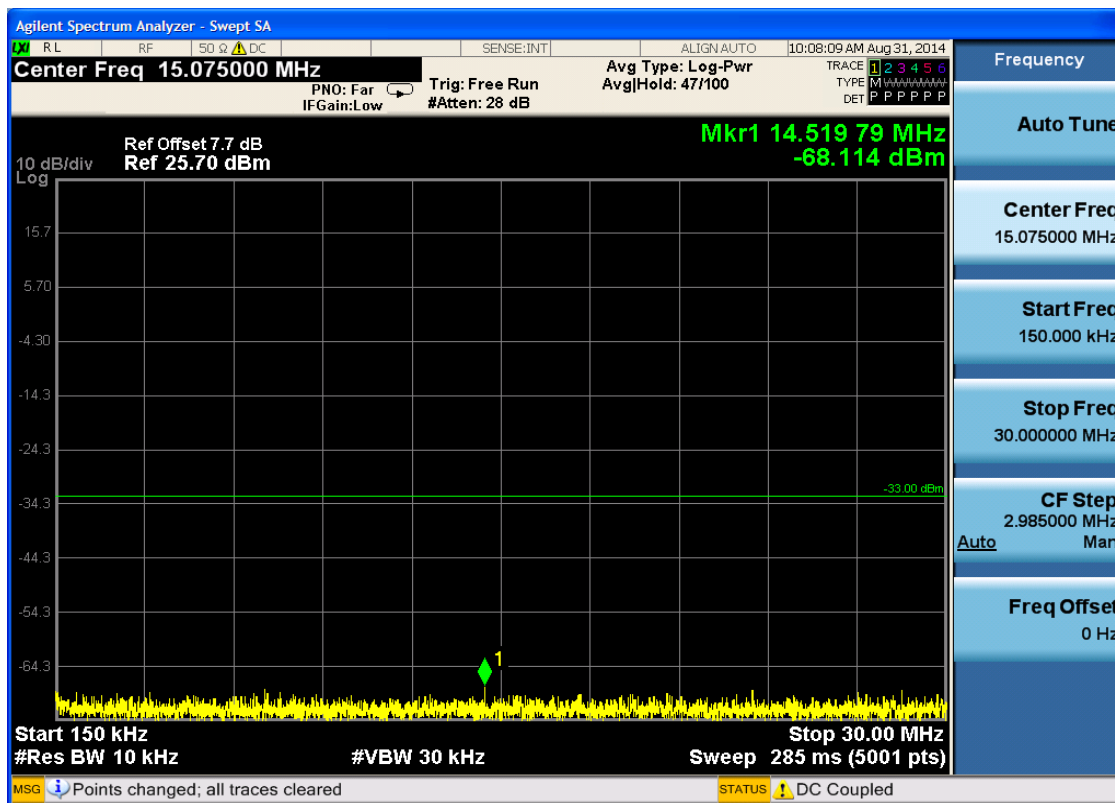


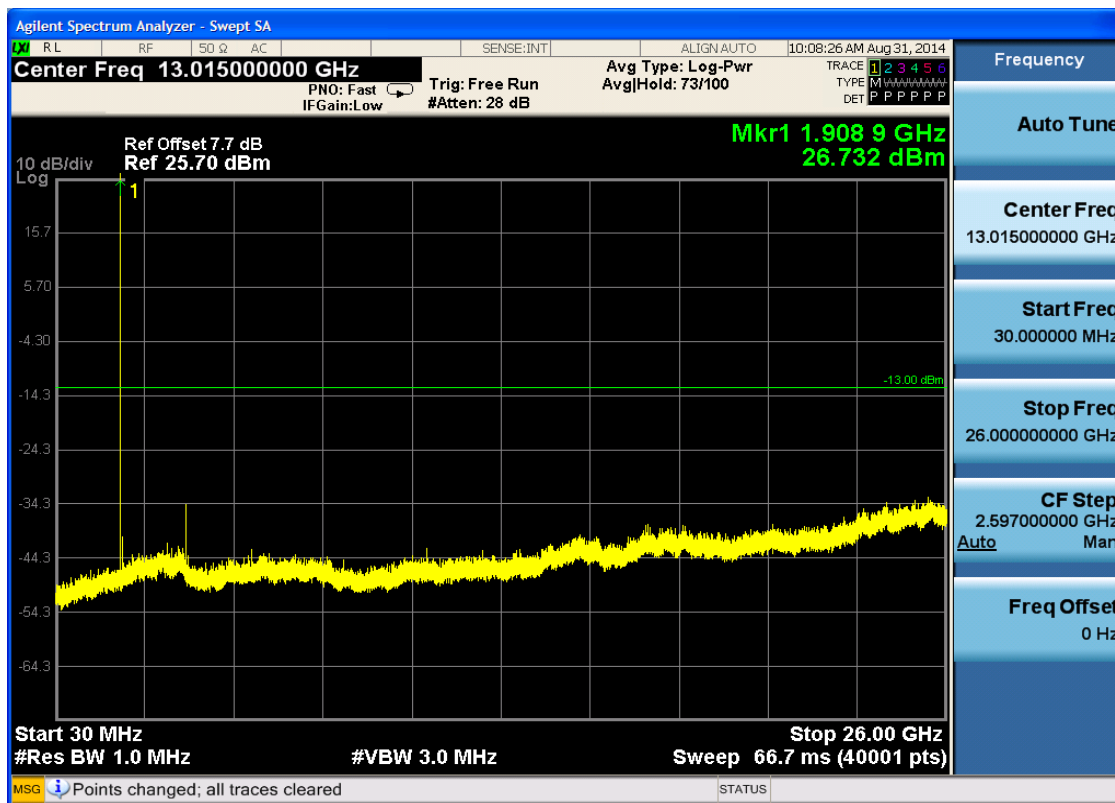


6.1.3.1.1.3 Test Channel = HCH

6.1.3.1.1.3.1 Test RB = RB1#0





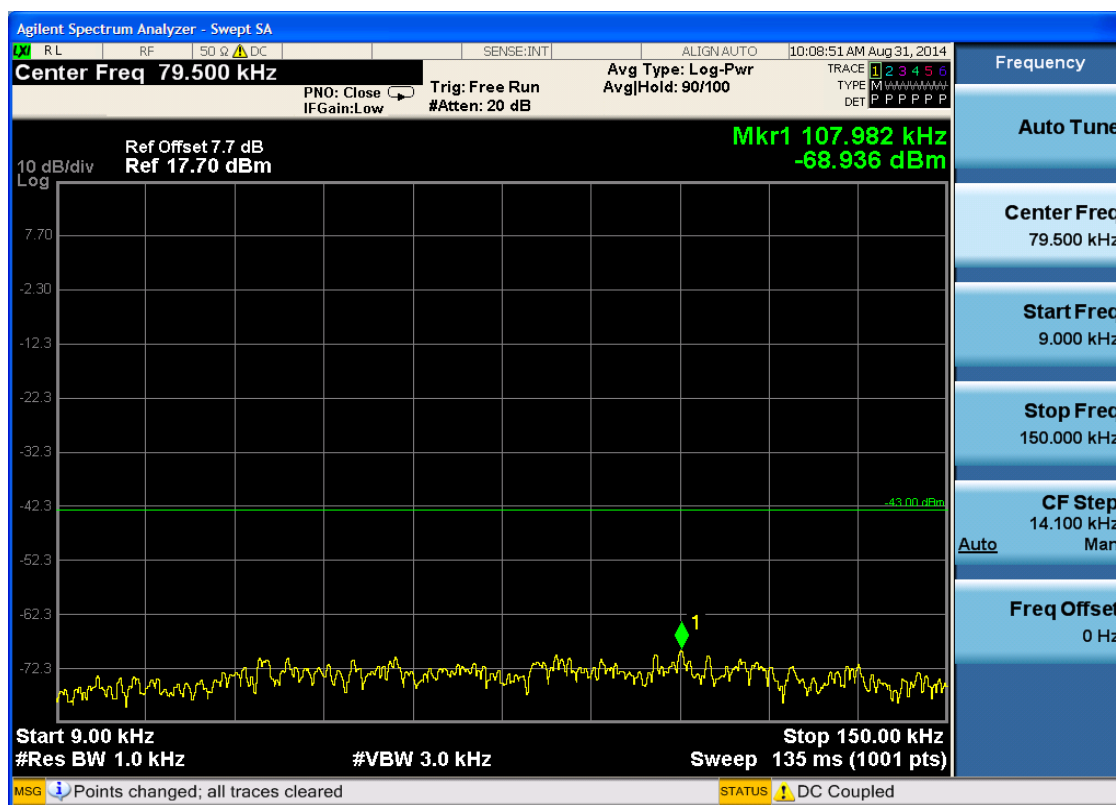


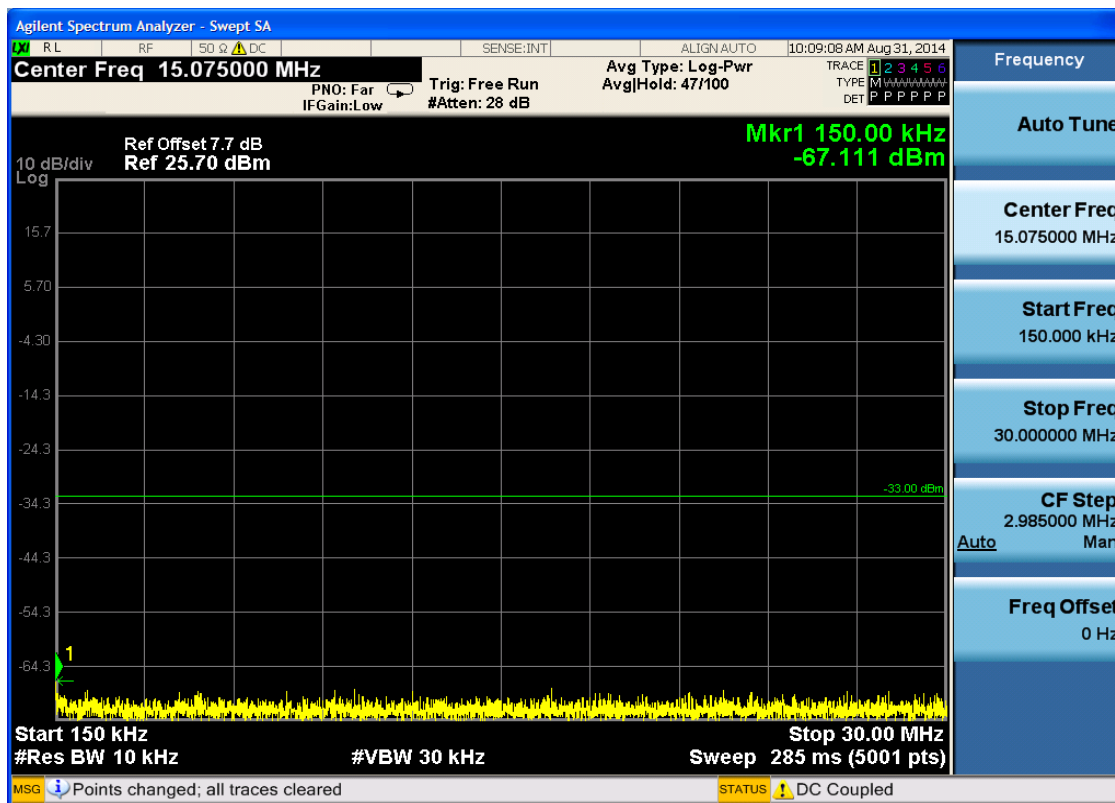


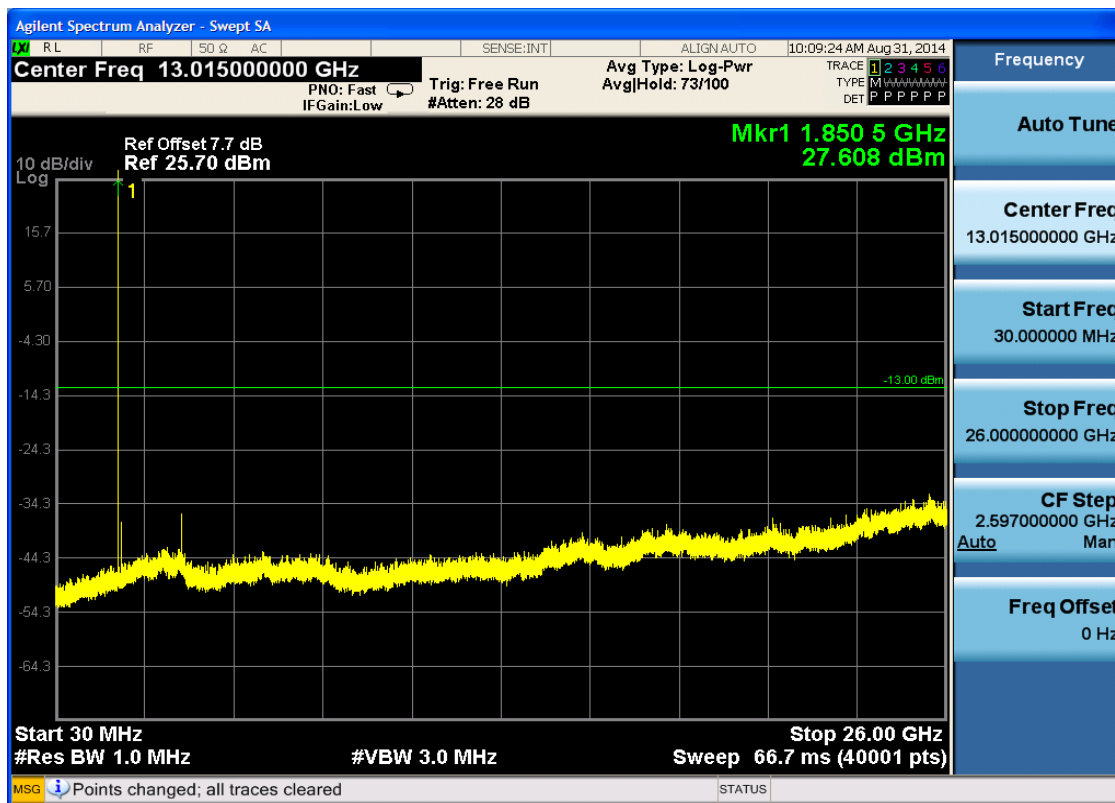
6.1.3.1.2 Test Bandwidth = 3

6.1.3.1.2.1 Test Channel = LCH

6.1.3.1.2.1.1 Test RB = RB1#0

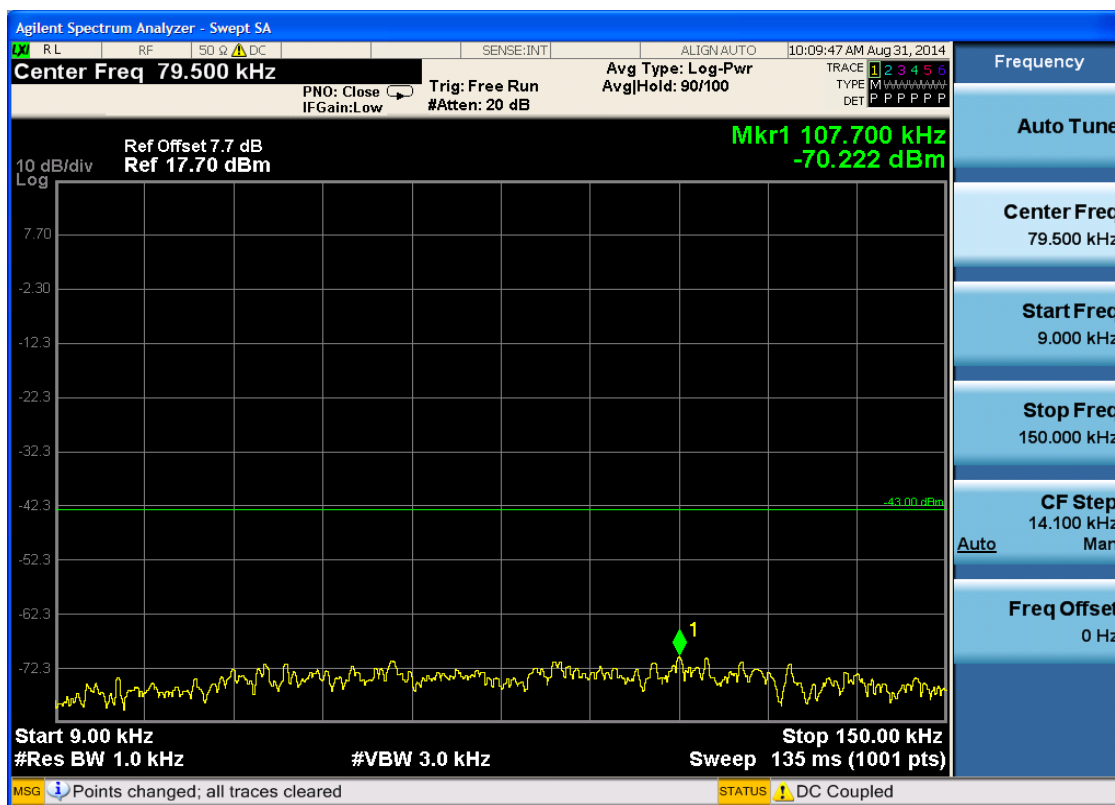


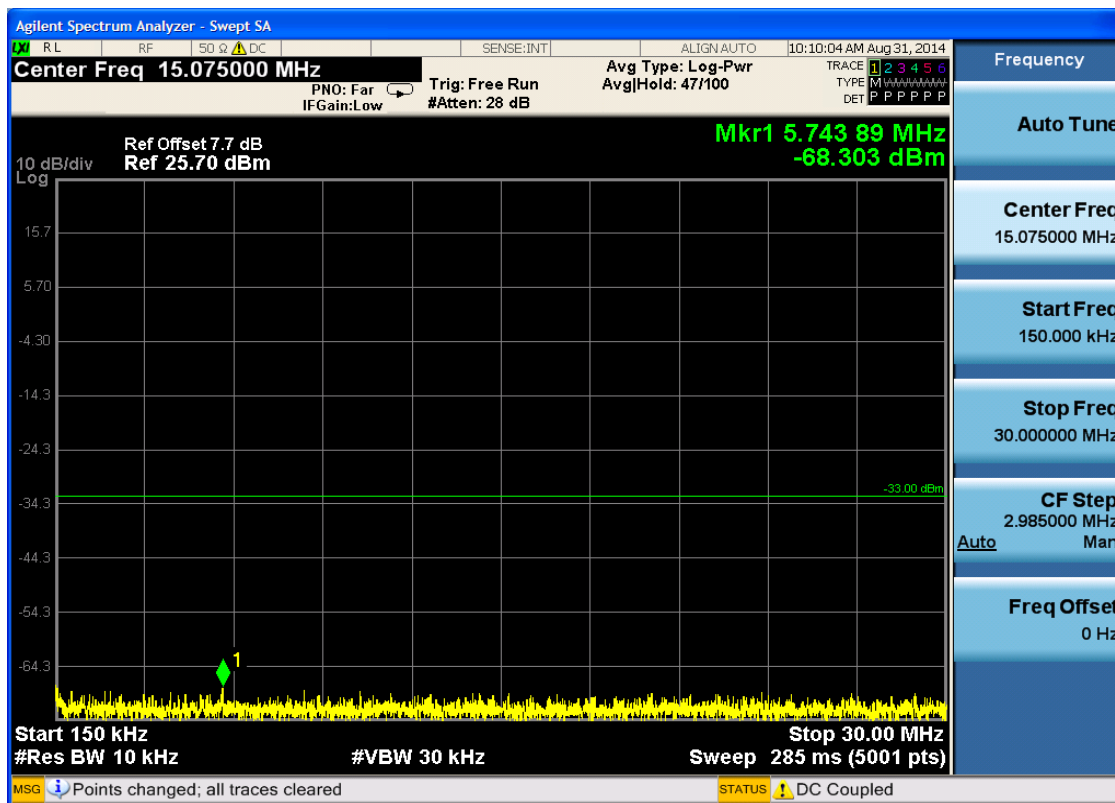


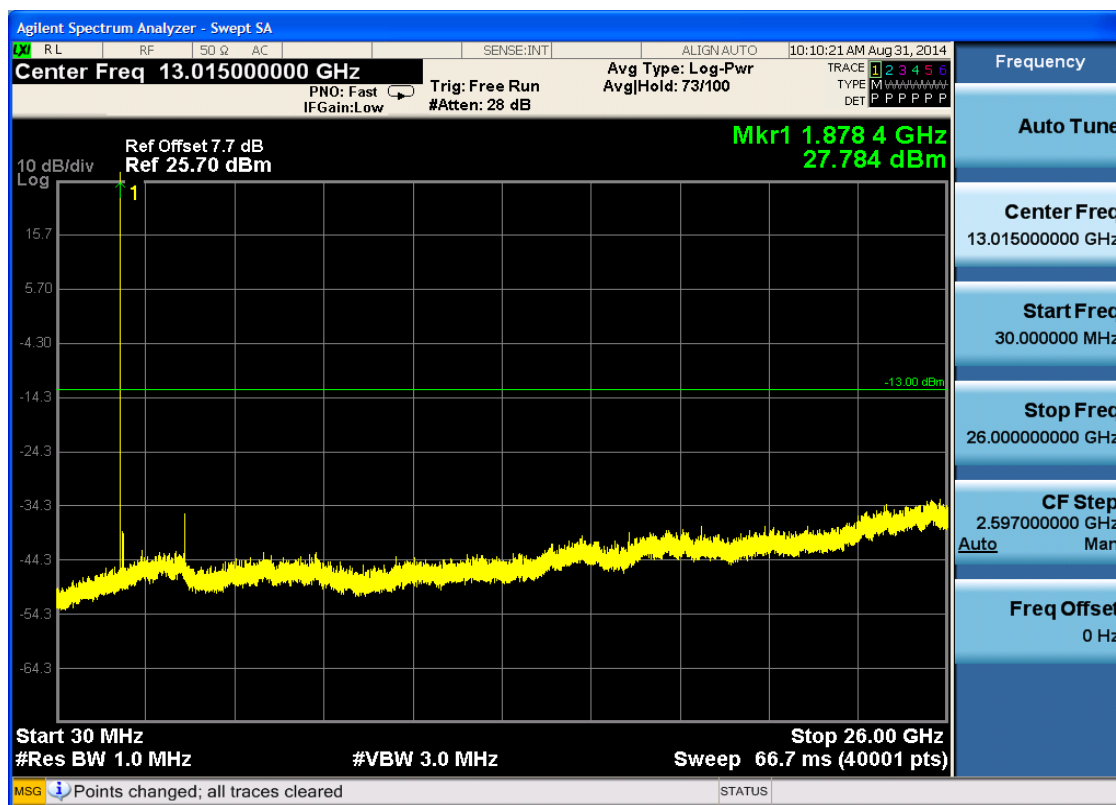


6.1.3.1.2.2 Test Channel = MCH

6.1.3.1.2.2.1 Test RB = RB1#0

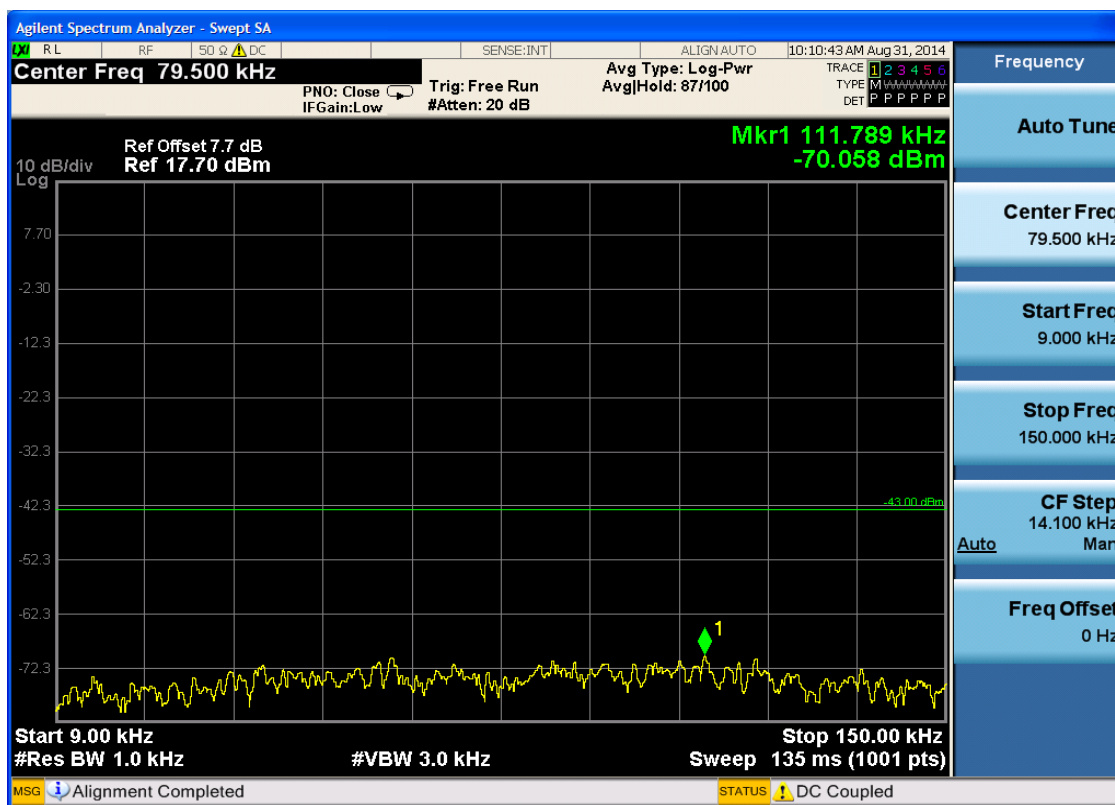


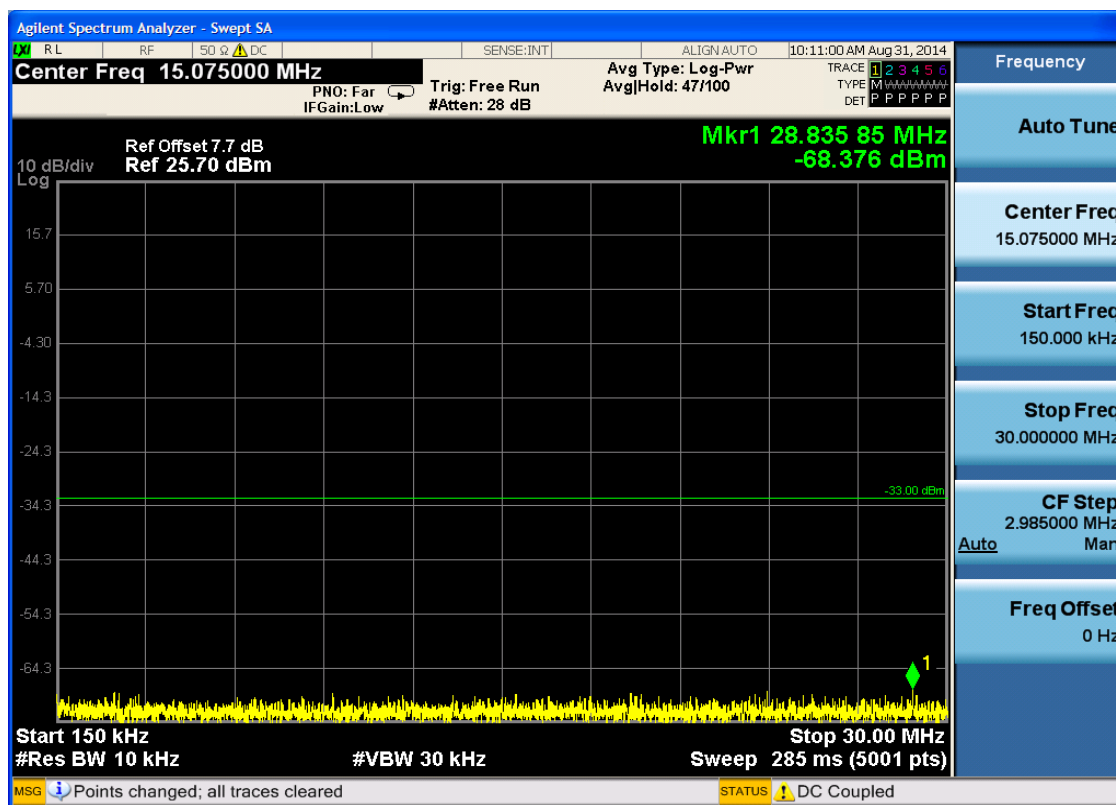


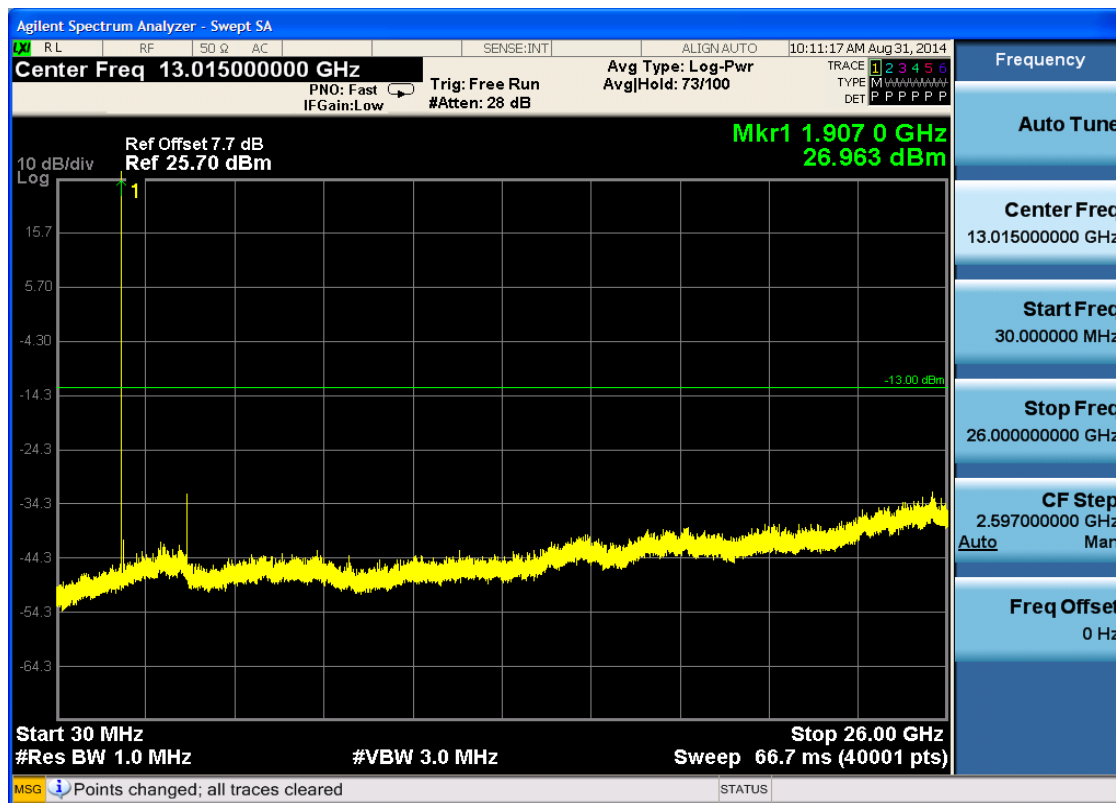


6.1.3.1.2.3 Test Channel = HCH

6.1.3.1.2.3.1 Test RB = RB1#0



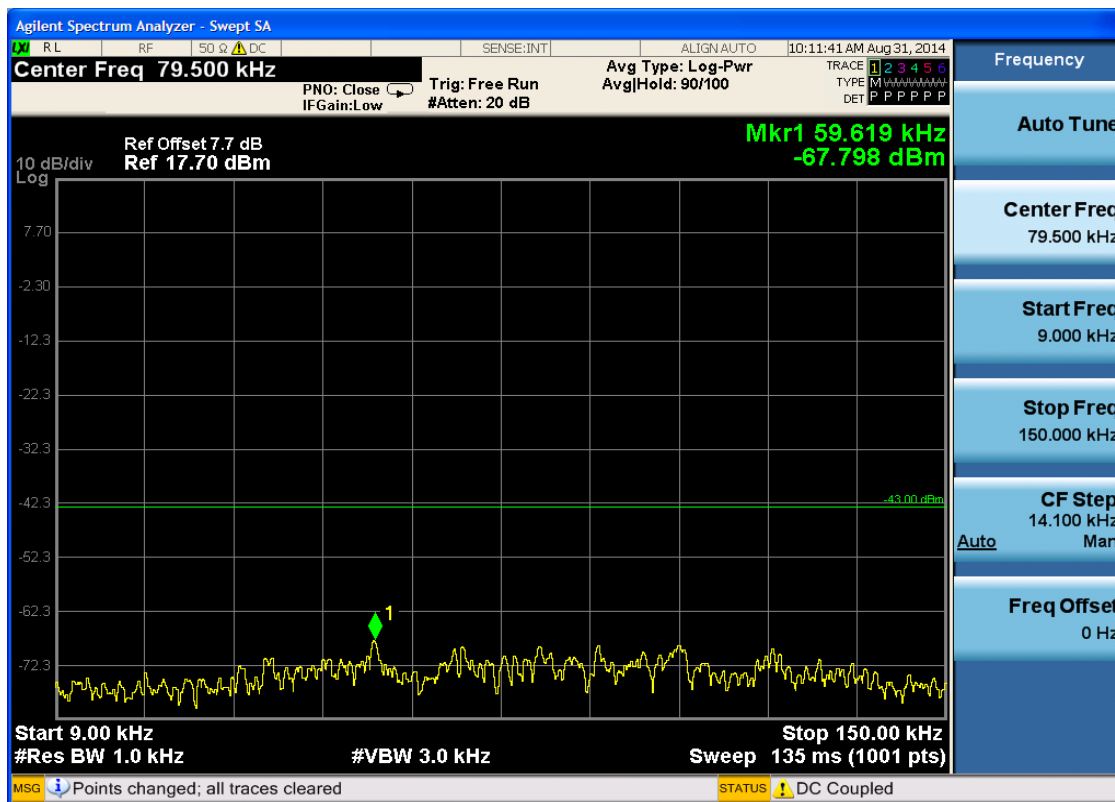


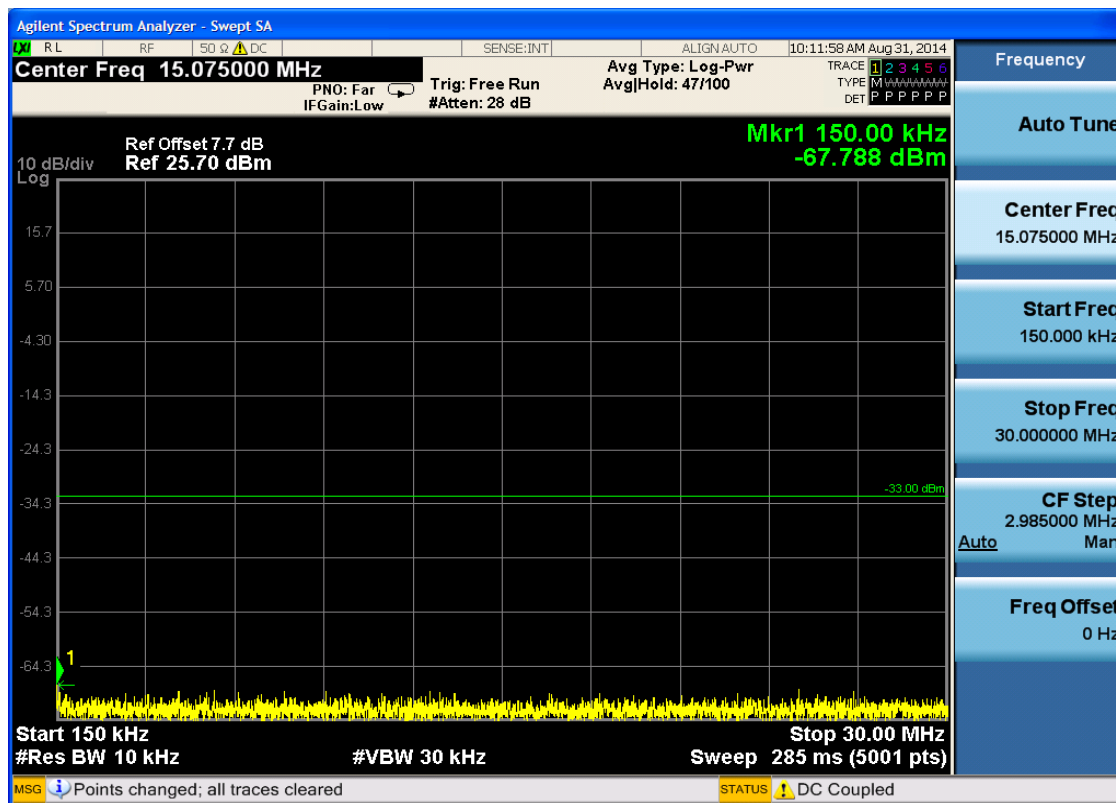


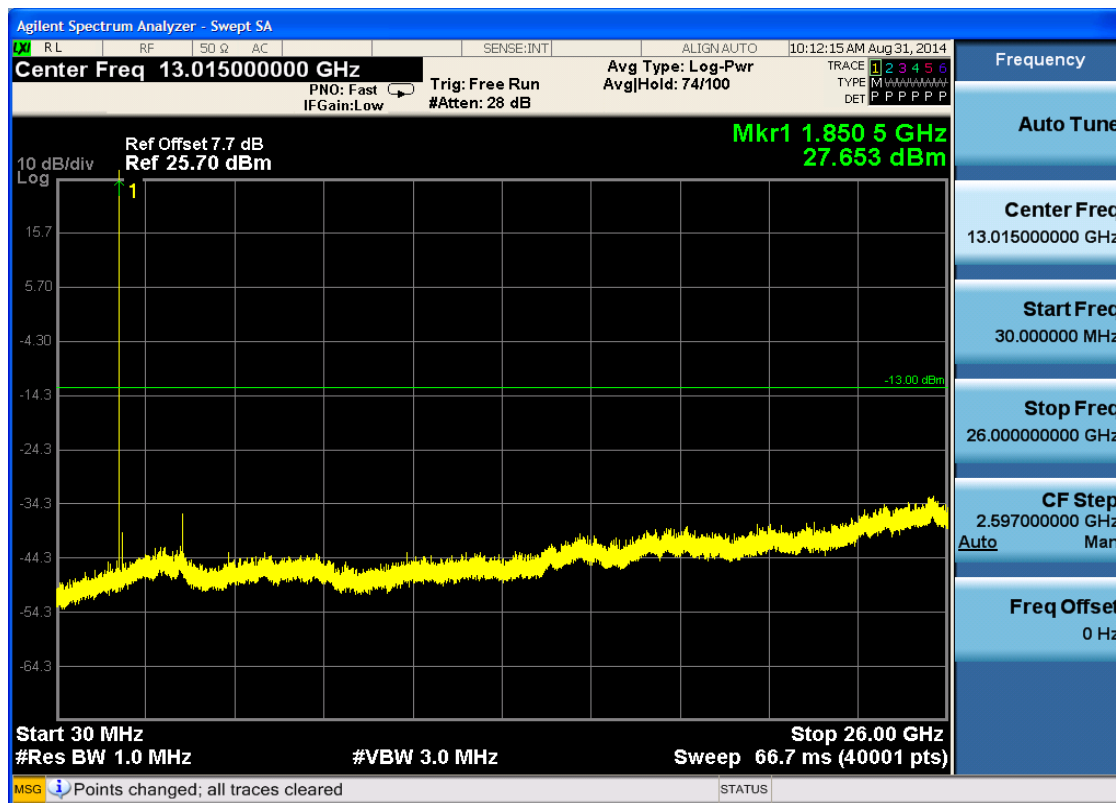
6.1.3.1.3 Test Bandwidth = 5

6.1.3.1.3.1 Test Channel = LCH

6.1.3.1.3.1.1 Test RB = RB1#0

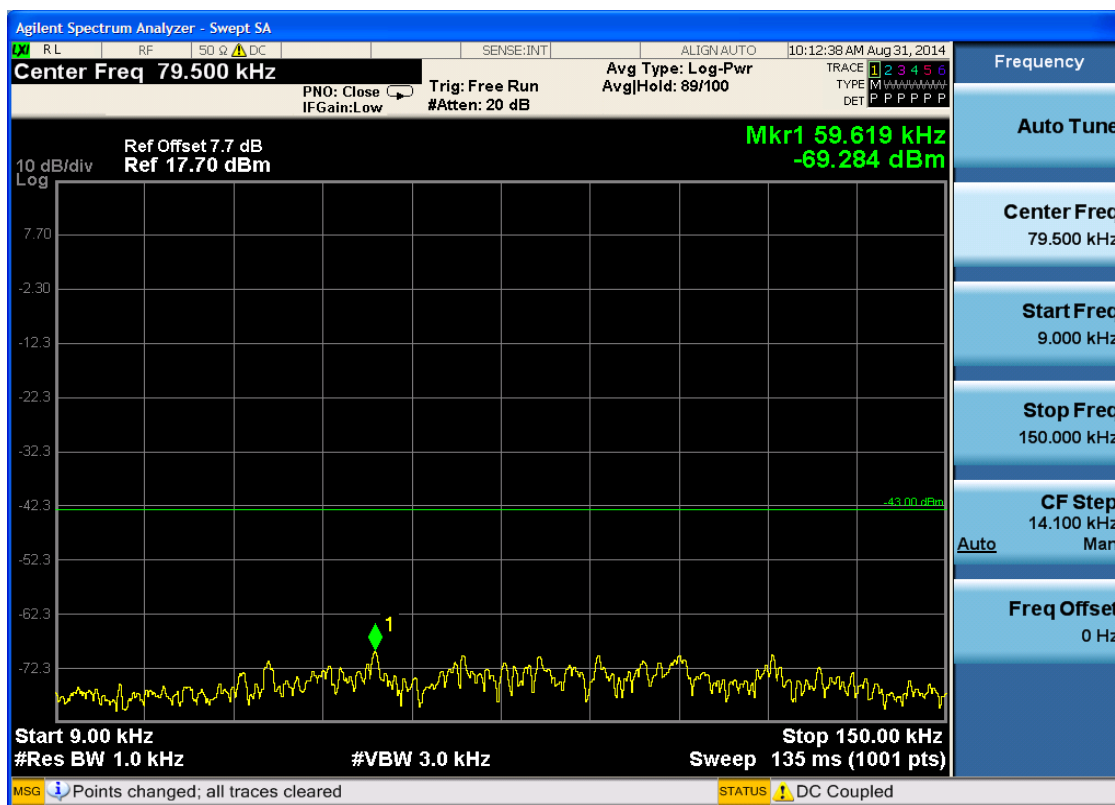


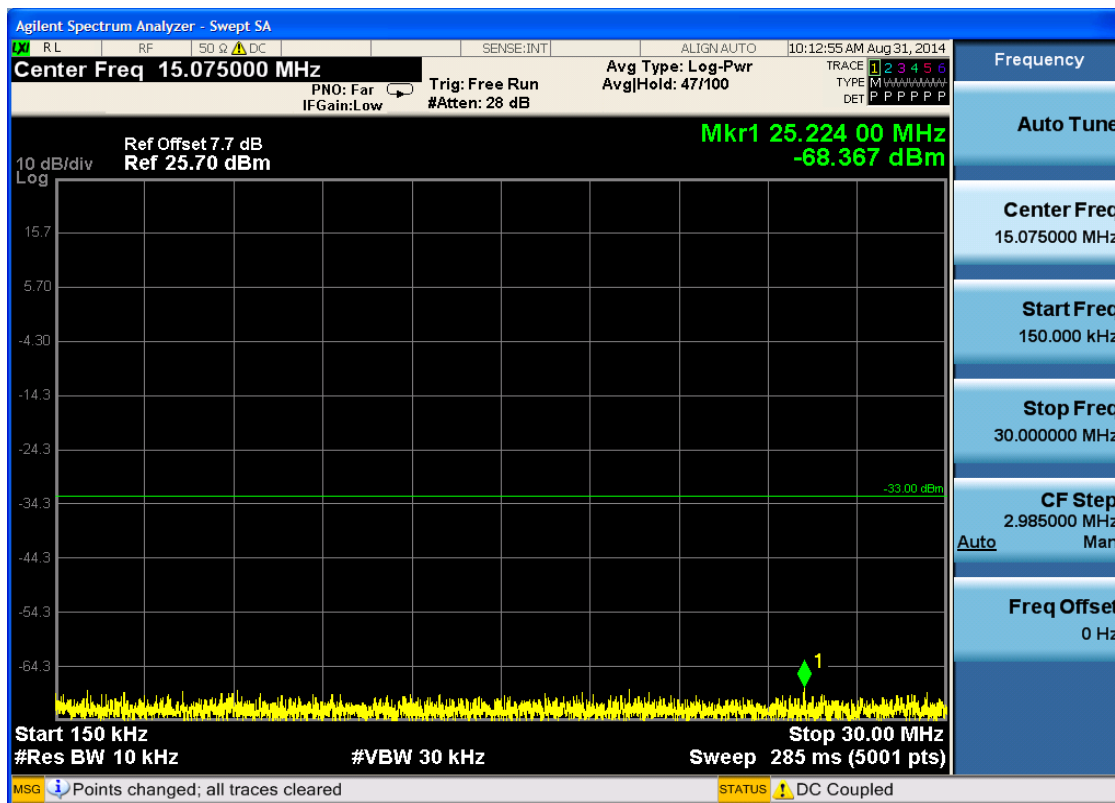


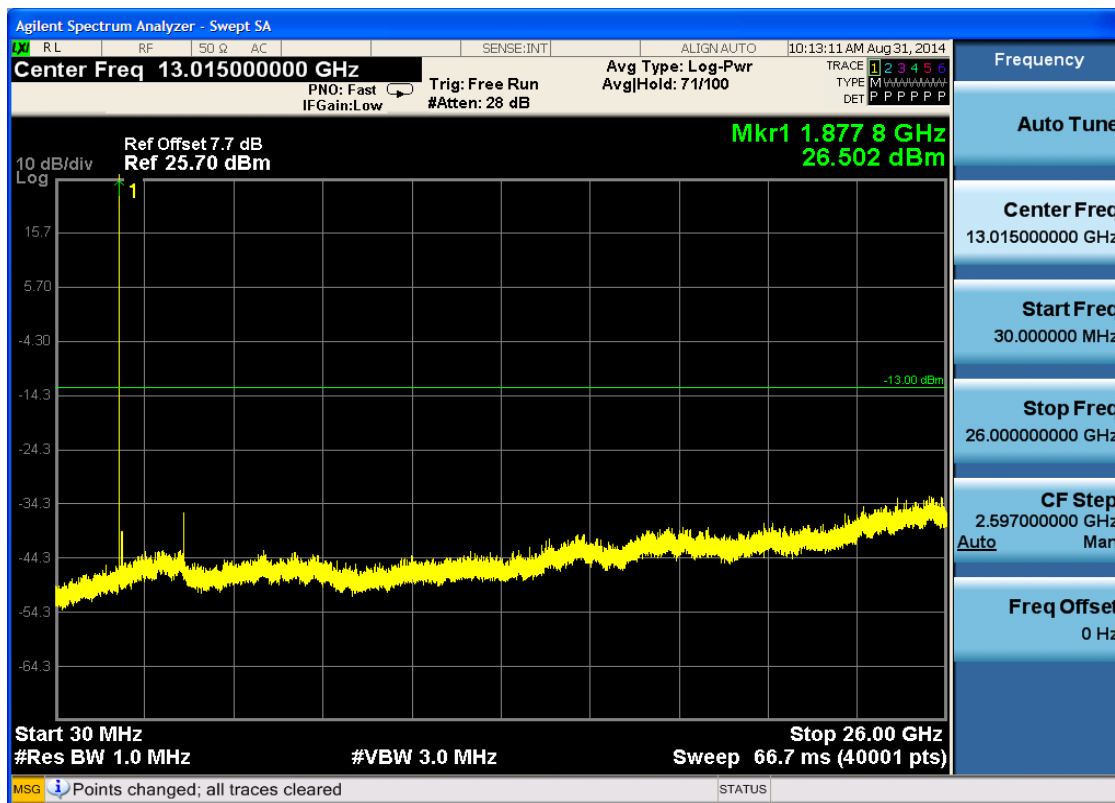


6.1.3.1.3.2 Test Channel = MCH

6.1.3.1.3.2.1 Test RB = RB1#0







6.1.3.1.3.3 Test Channel = HCH

6.1.3.1.3.3.1 Test RB = RB1#0

