



5.3.2.1.4.2.3 Test RB = RB25#13





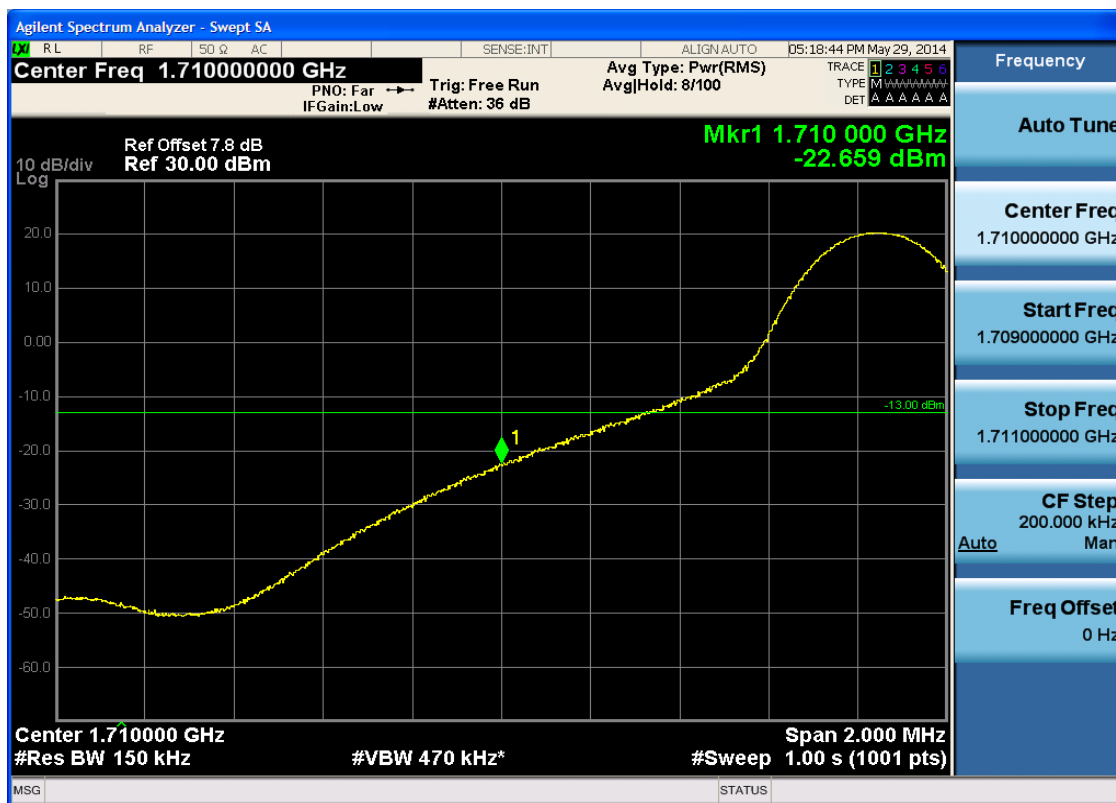
5.3.2.1.4.2.4 Test RB = RB50#0



5.3.2.1.5 Test Bandwidth = 15

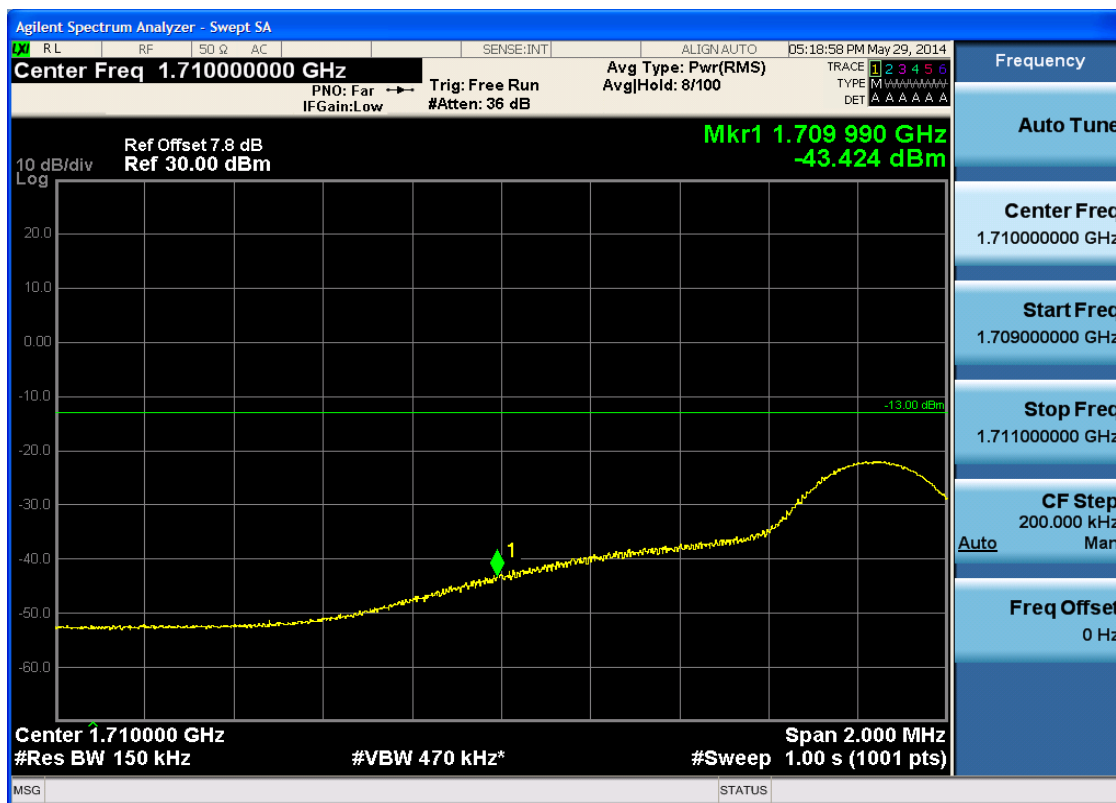
5.3.2.1.5.1 Test Channel = LCH

5.3.2.1.5.1.1 Test RB = RB1#0



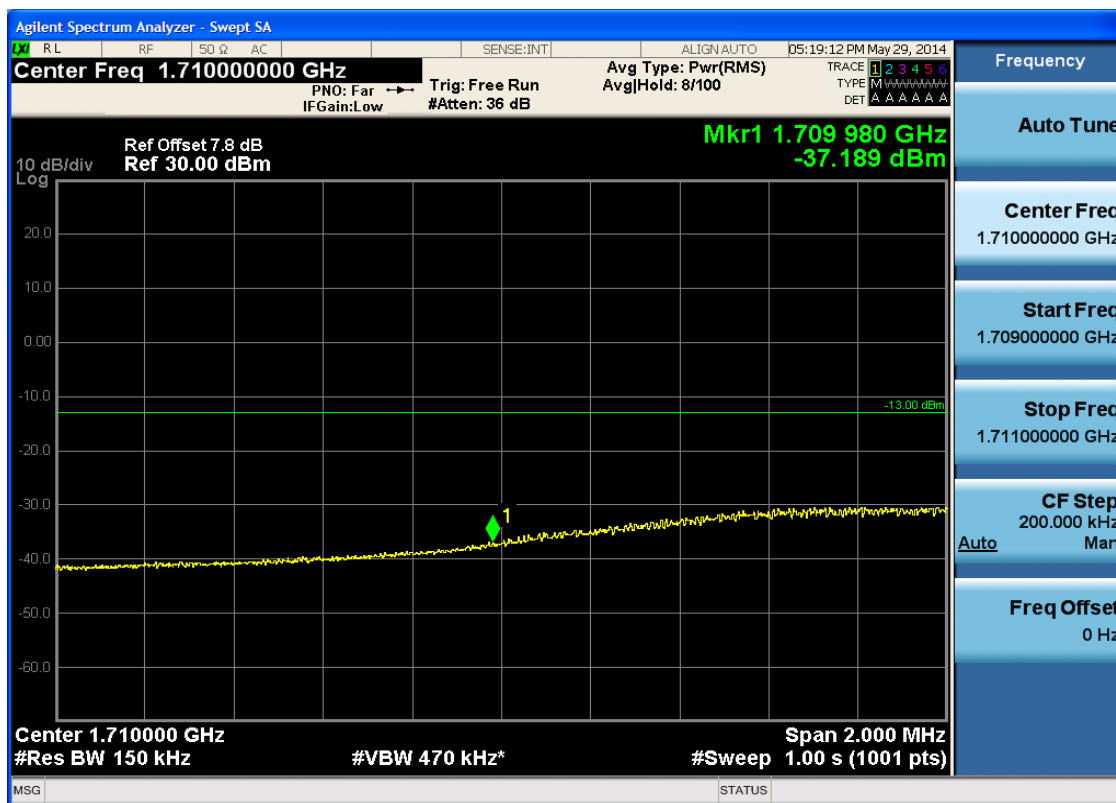


5.3.2.1.5.1.2 Test RB = RB1#74



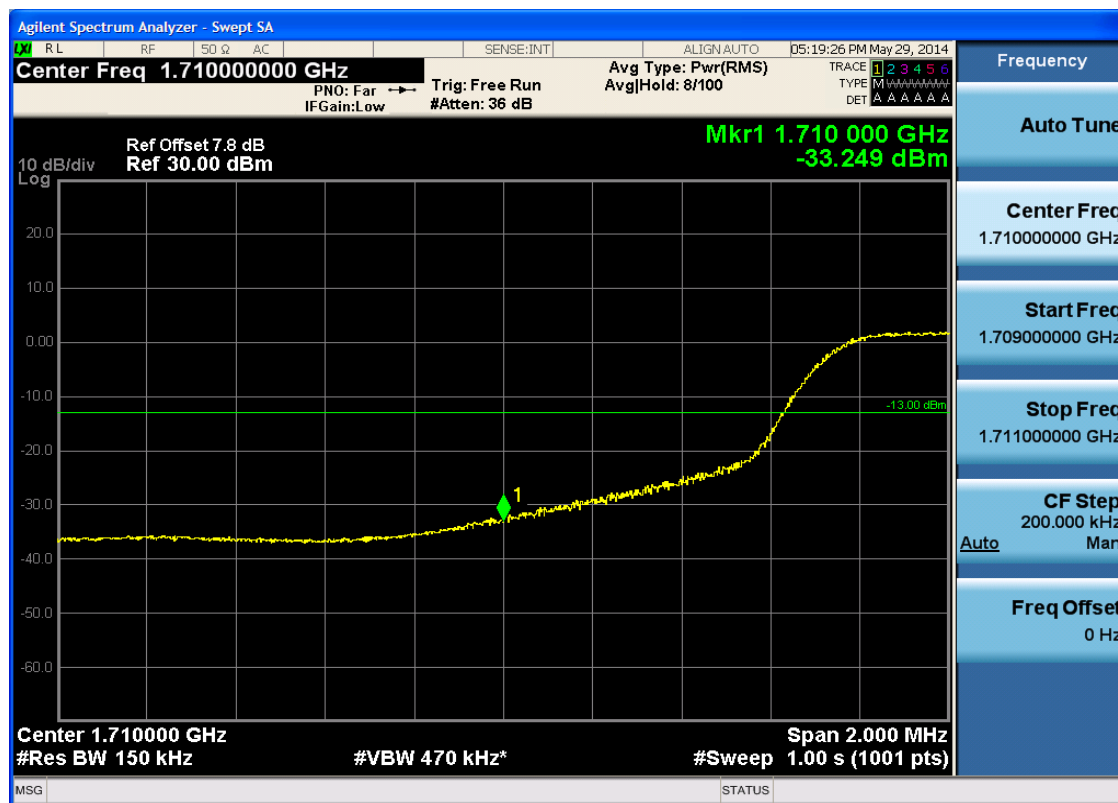


5.3.2.1.5.1.3 Test RB = RB38#19





5.3.2.1.5.1.4 Test RB = RB75#0





5.3.2.1.5.2 Test Channel = HCH

5.3.2.1.5.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 05:20:00 PM May 29, 2014

Center Freq 1.755000000 GHz Avg Type: Pwr(RMS) TRACE 1 2 3 4 5 6
PNO: Far Trig: Free Run Avg|Hold: 8/100 TYPE M *****
IFGain:Low #Atten: 36 dB DET A A A A A A

Ref Offset 7.8 dB Mkr1 1.755 000 GHz
Ref 30.00 dBm -23.159 dBm

10 dB/div Log

-13.00 dBm

1

Center 1.755000 GHz Span 2.000 MHz
#Res BW 150 kHz #VBW 470 kHz* #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
Auto Man

Freq Offset 0 Hz

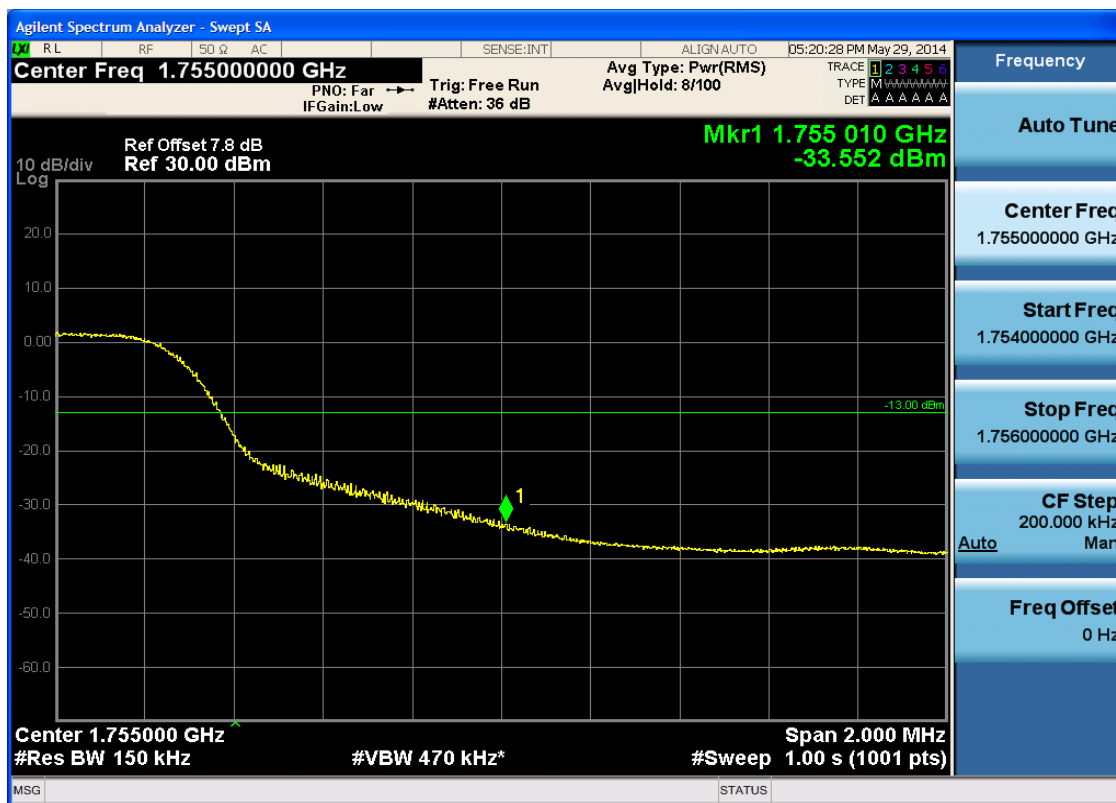


5.3.2.1.5.2.3 Test RB = RB38#19





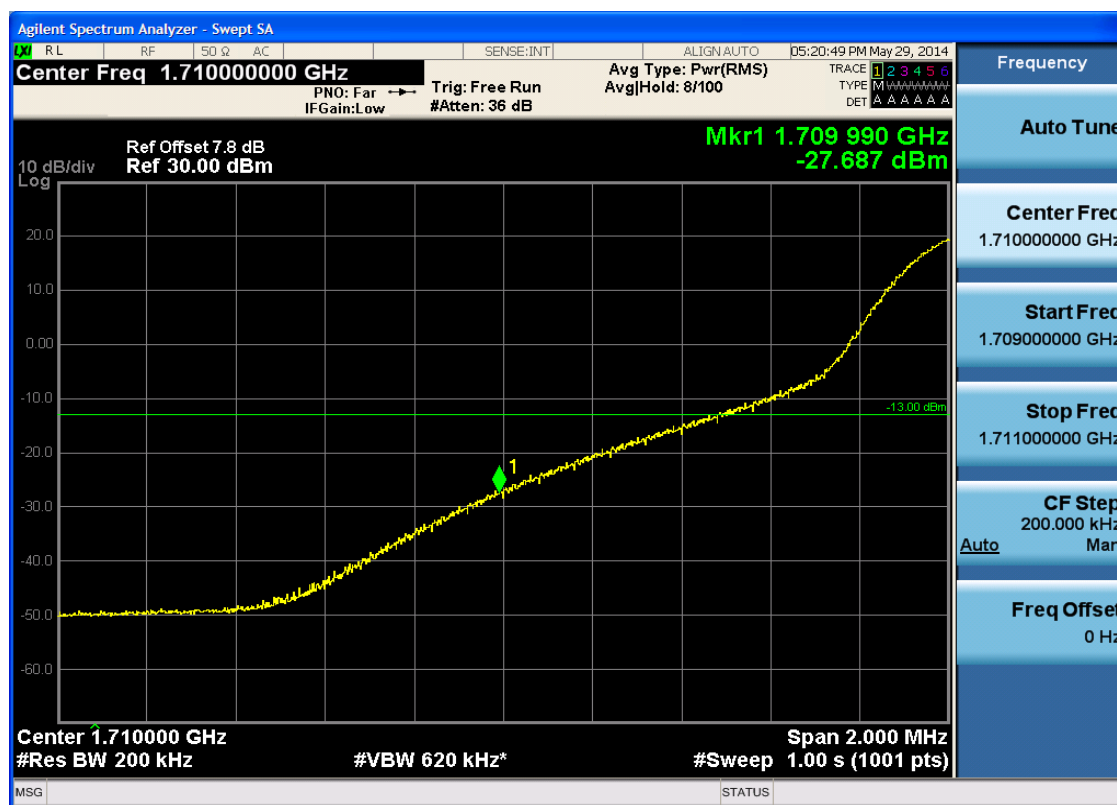
5.3.2.1.5.2.4 Test RB = RB75#0



5.3.2.1.6 Test Bandwidth = 20

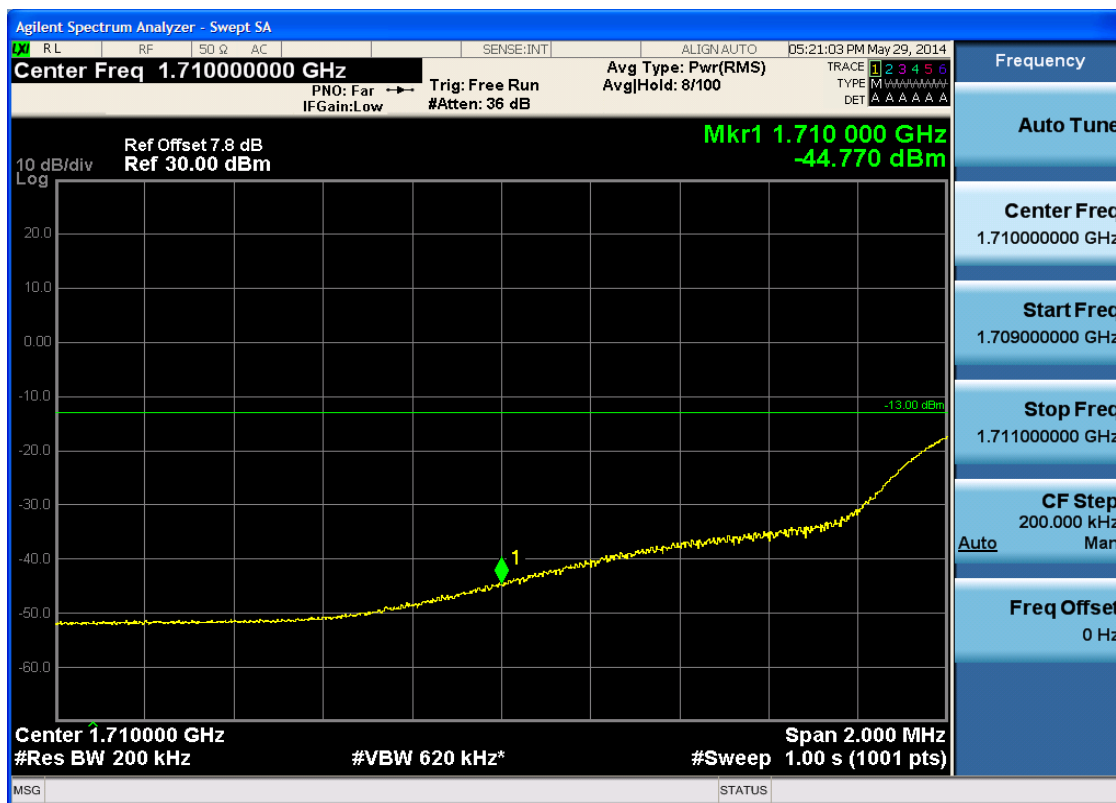
5.3.2.1.6.1 Test Channel = LCH

5.3.2.1.6.1.1 Test RB = RB1#0



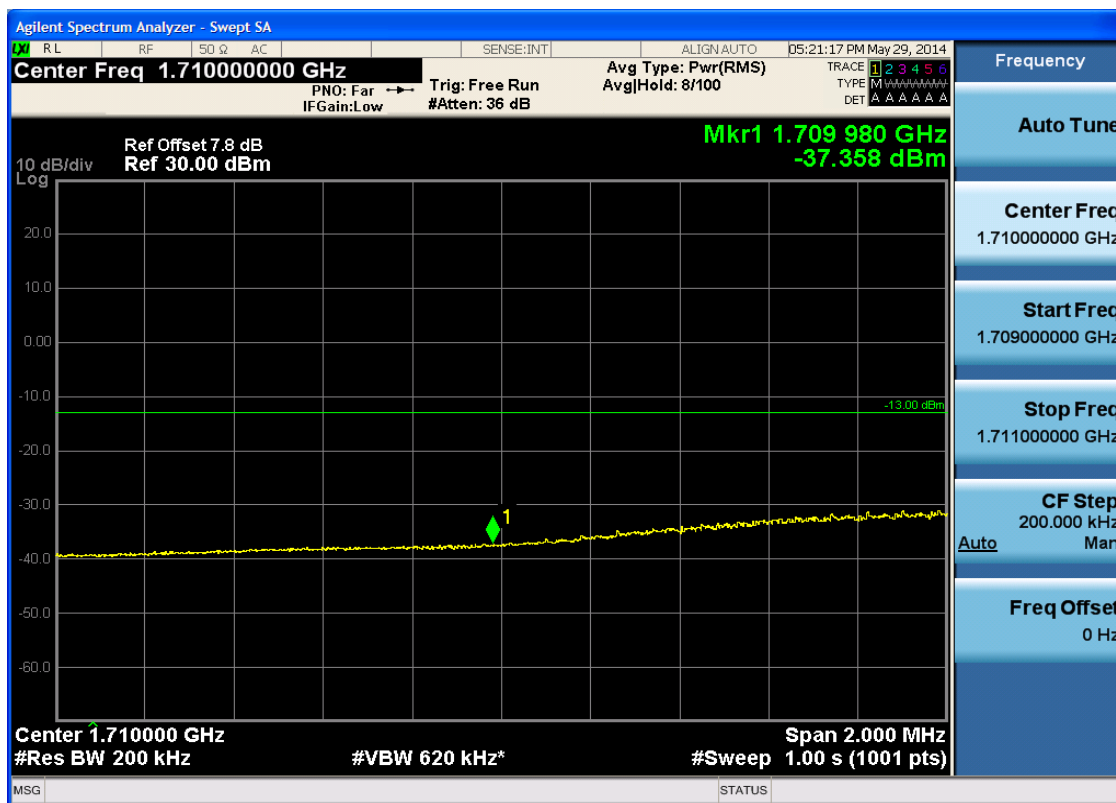


5.3.2.1.6.1.2 Test RB = RB1#99



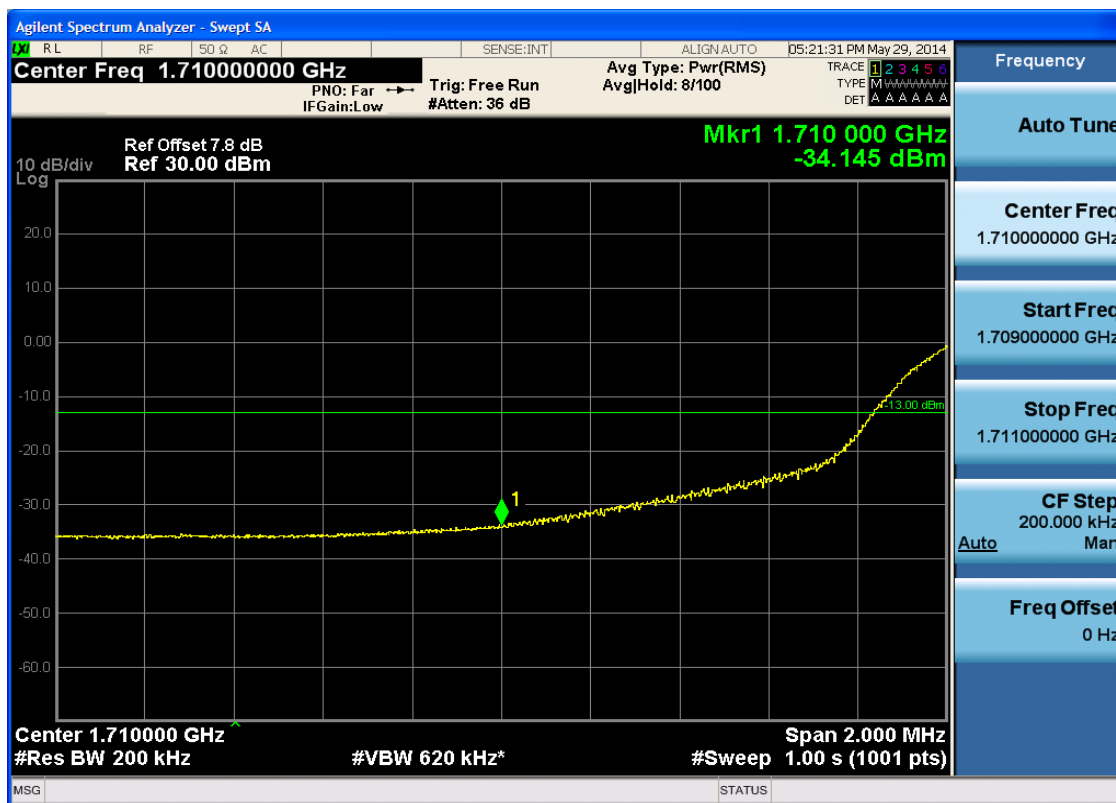


5.3.2.1.6.1.3 Test RB = RB50#25





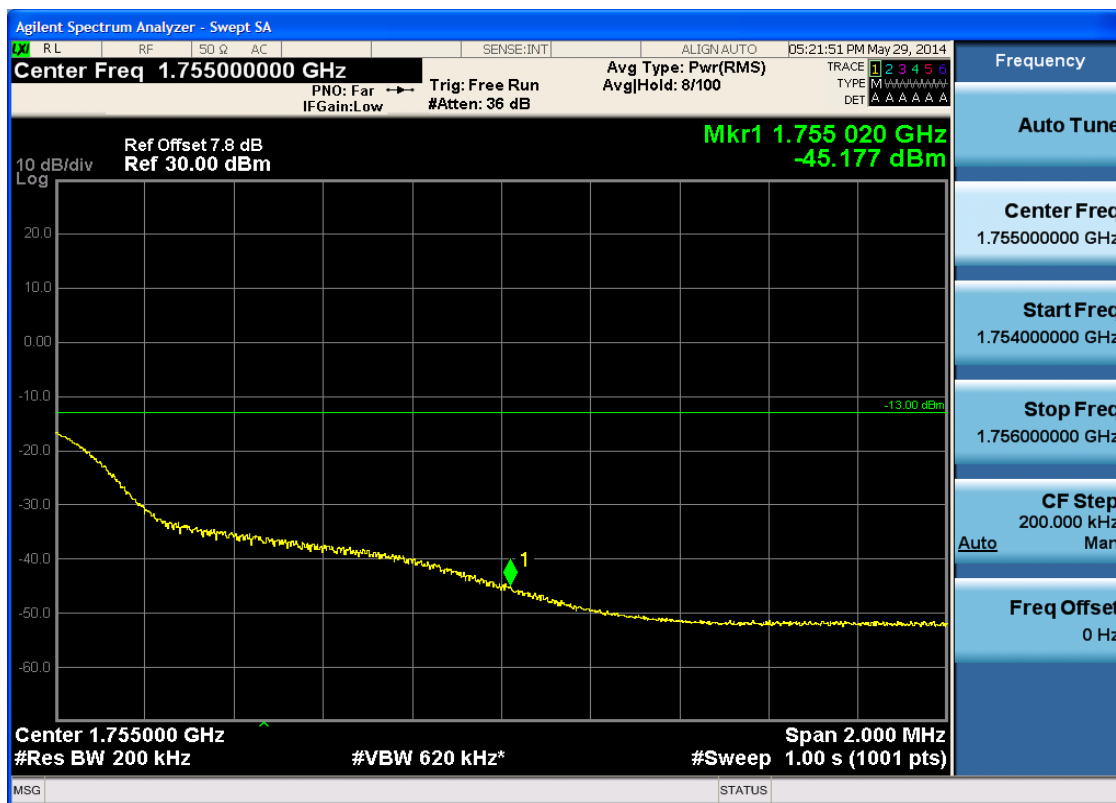
5.3.2.1.6.1.4 Test RB = RB100#0





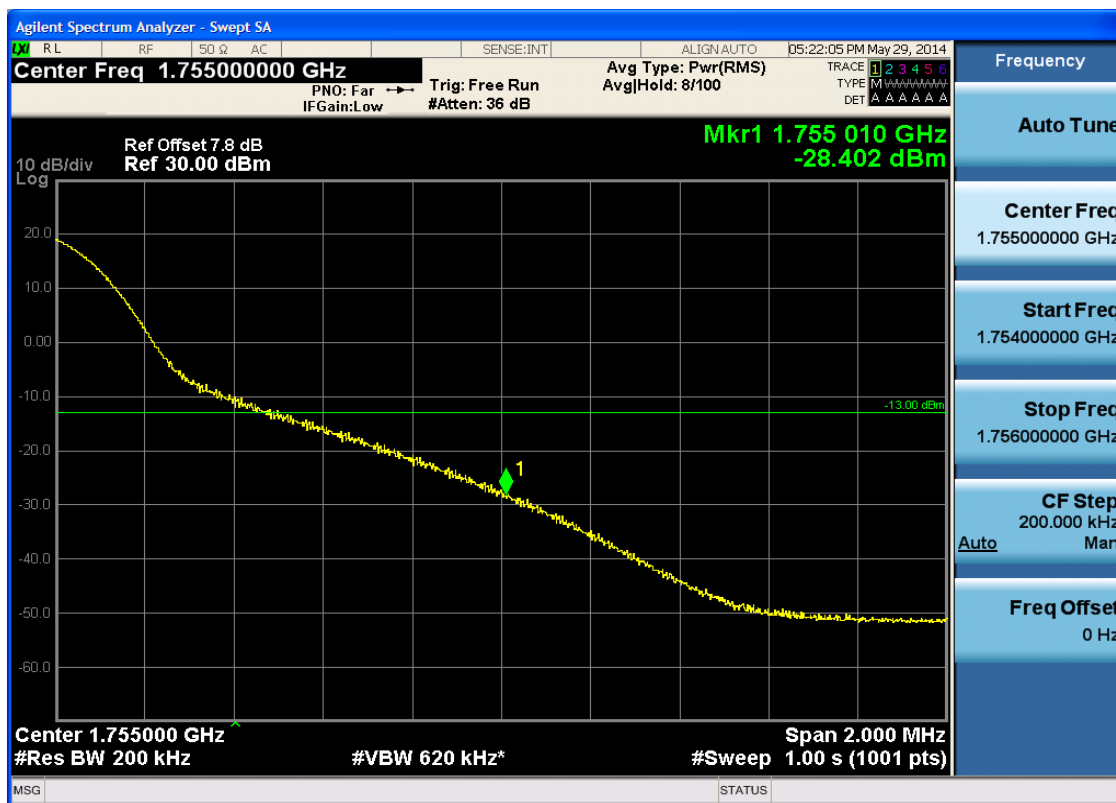
5.3.2.1.6.2 Test Channel = HCH

5.3.2.1.6.2.1 Test RB = RB1#0



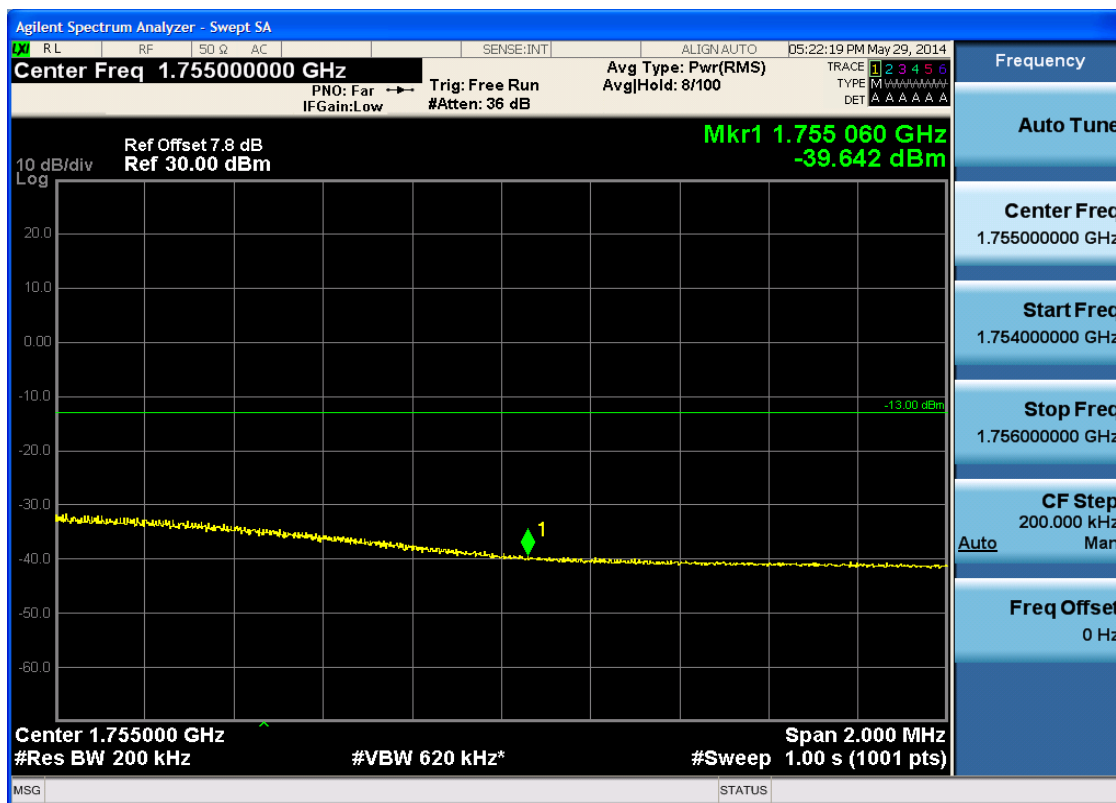


5.3.2.1.6.2.2 Test RB = RB1#99



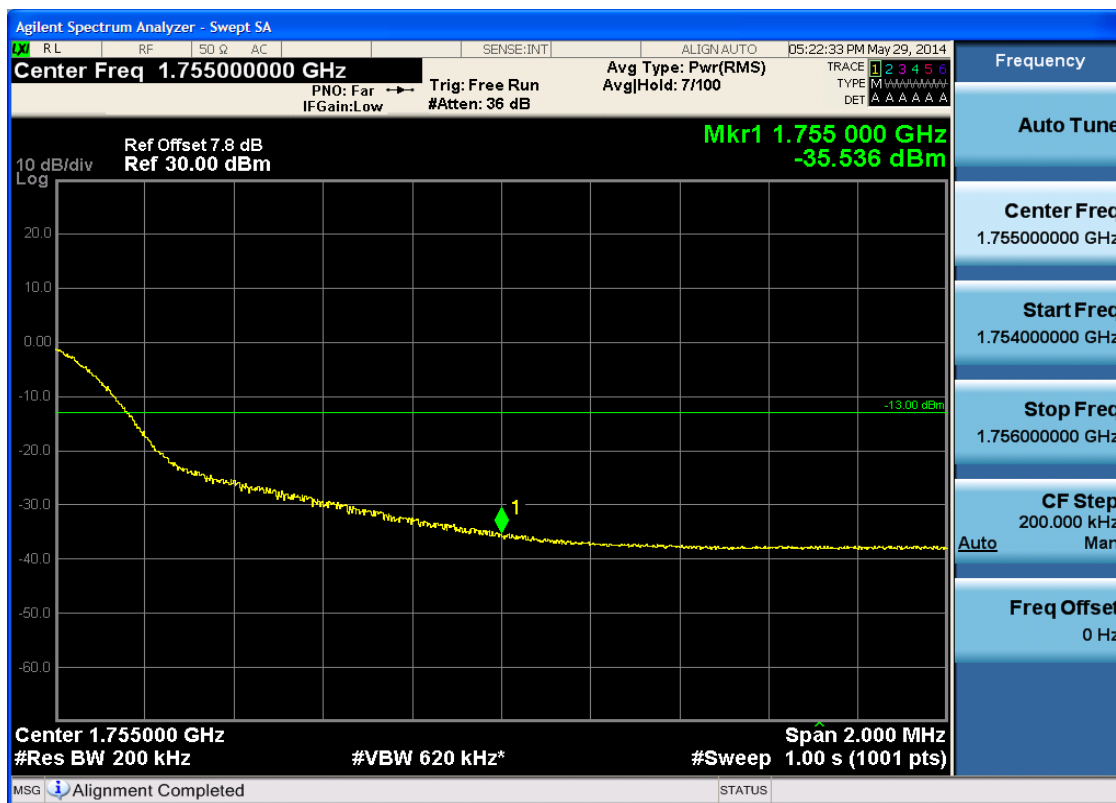


5.3.2.1.6.2.3 Test RB = RB50#25





5.3.2.1.6.2.4 Test RB = RB100#0



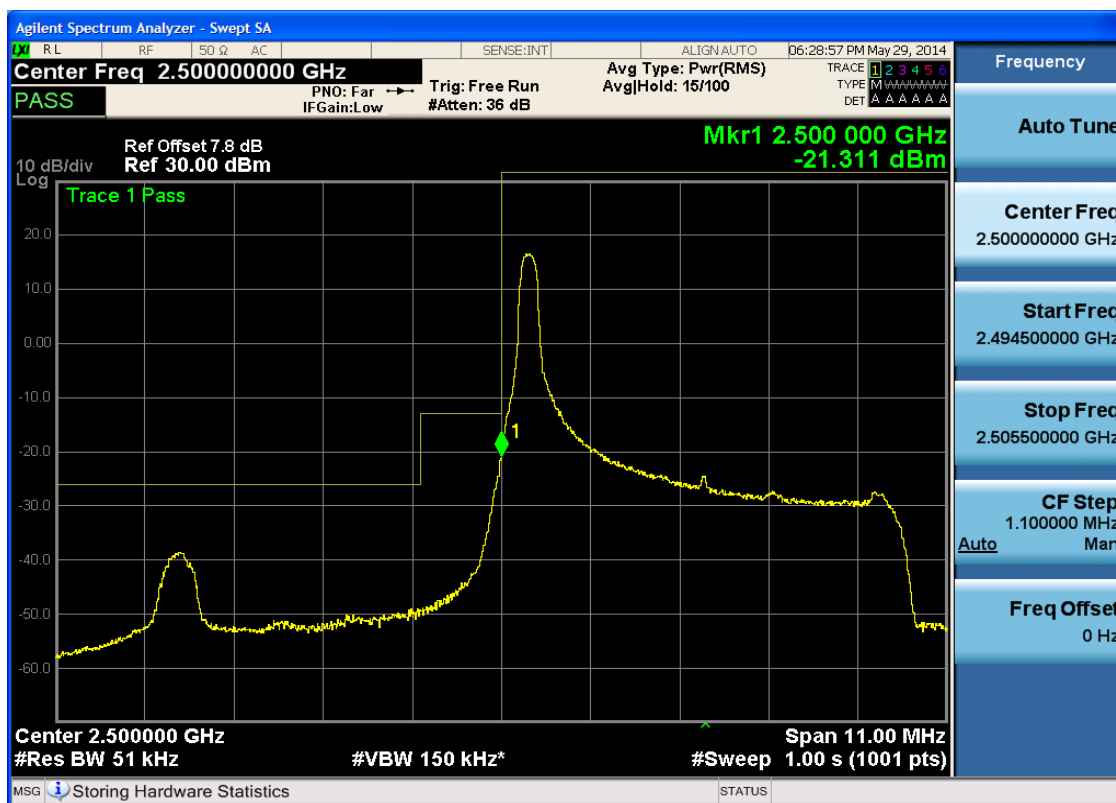
5.3.3 Test Band = BAND7

5.3.3.1 Test Mode = LTE/TM1

5.3.3.1.1 Test Bandwidth = 5

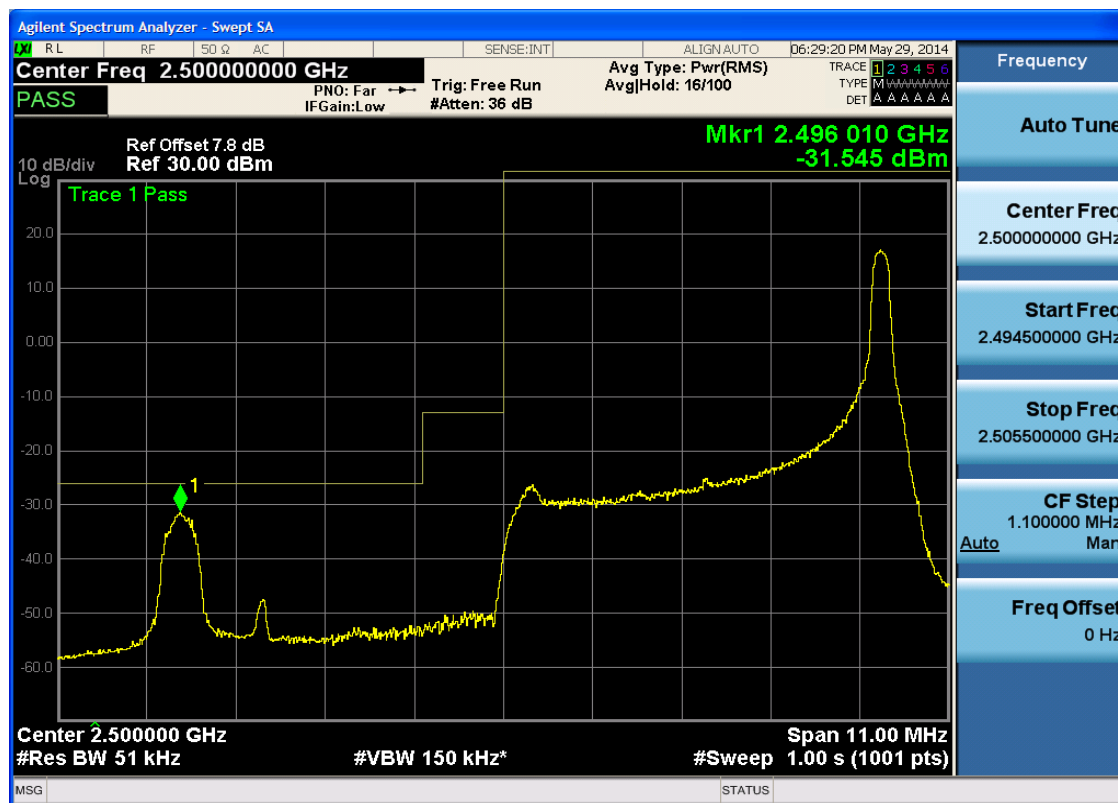
5.3.3.1.1.1 Test Channel = LCH

5.3.3.1.1.1.1 Test RB = RB1#0



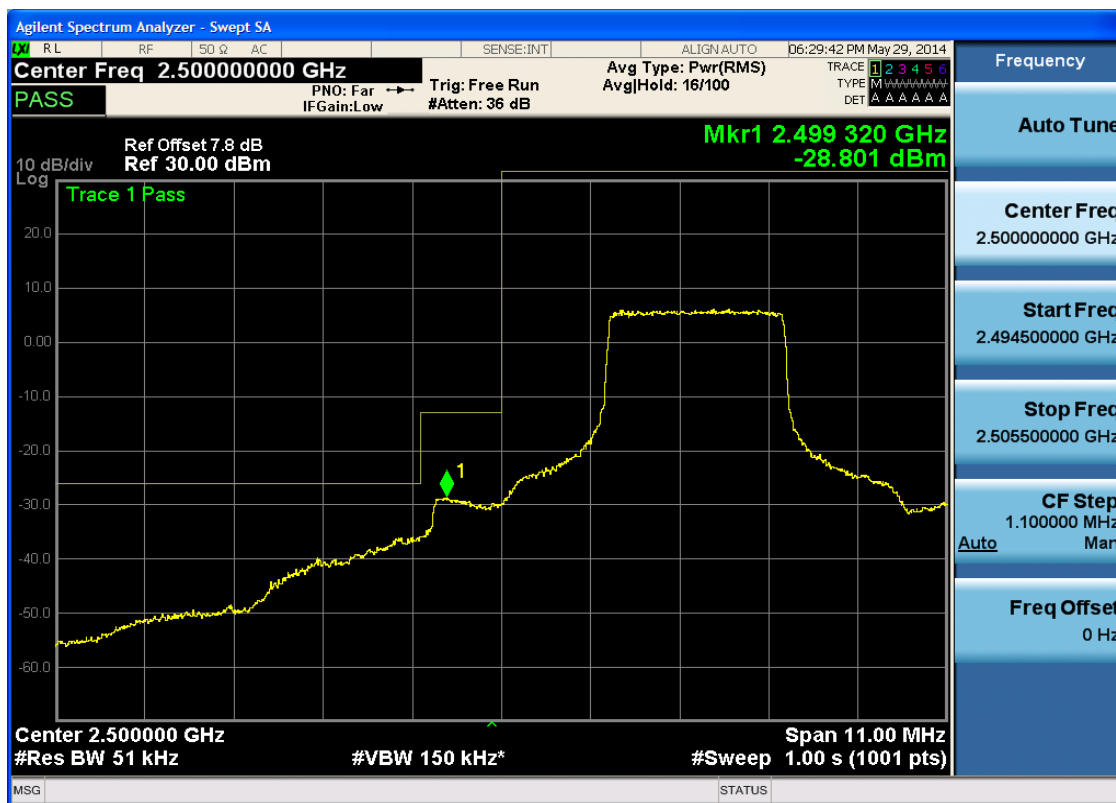


5.3.3.1.1.2 Test RB = RB1#24



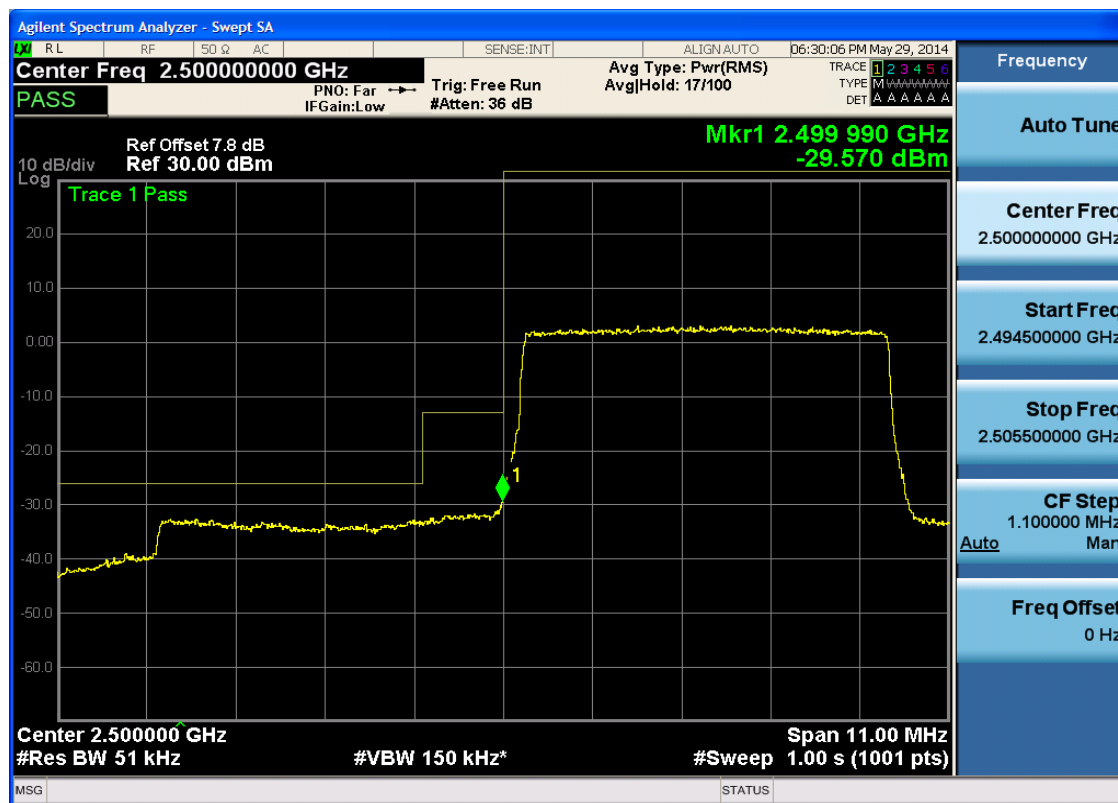


5.3.3.1.1.1.3 Test RB = RB12#6





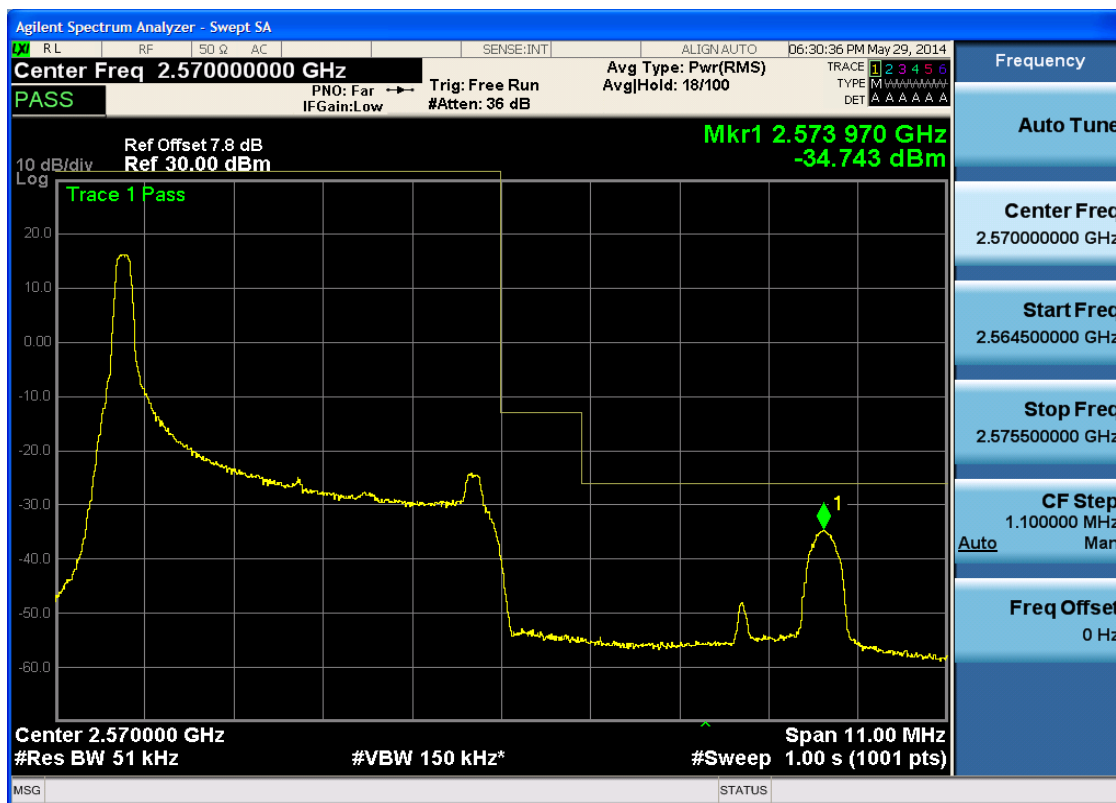
5.3.3.1.1.4 Test RB = RB25#0





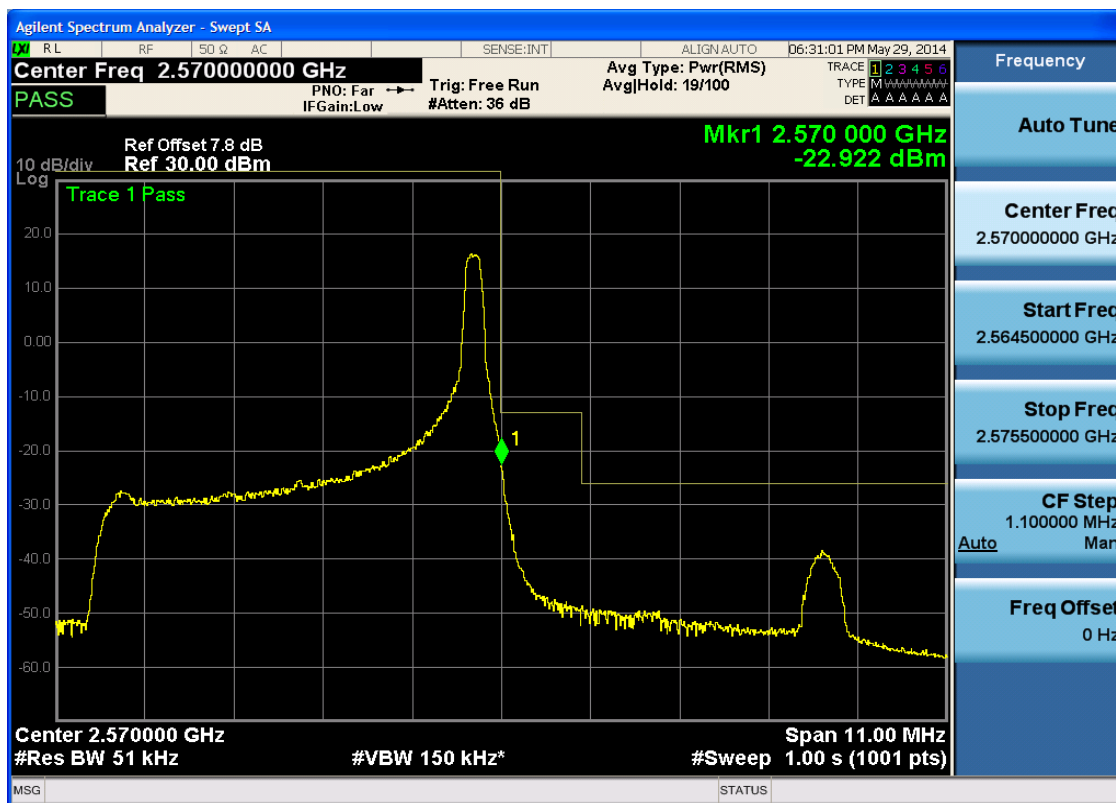
5.3.3.1.1.2 Test Channel = HCH

5.3.3.1.1.2.1 Test RB = RB1#0



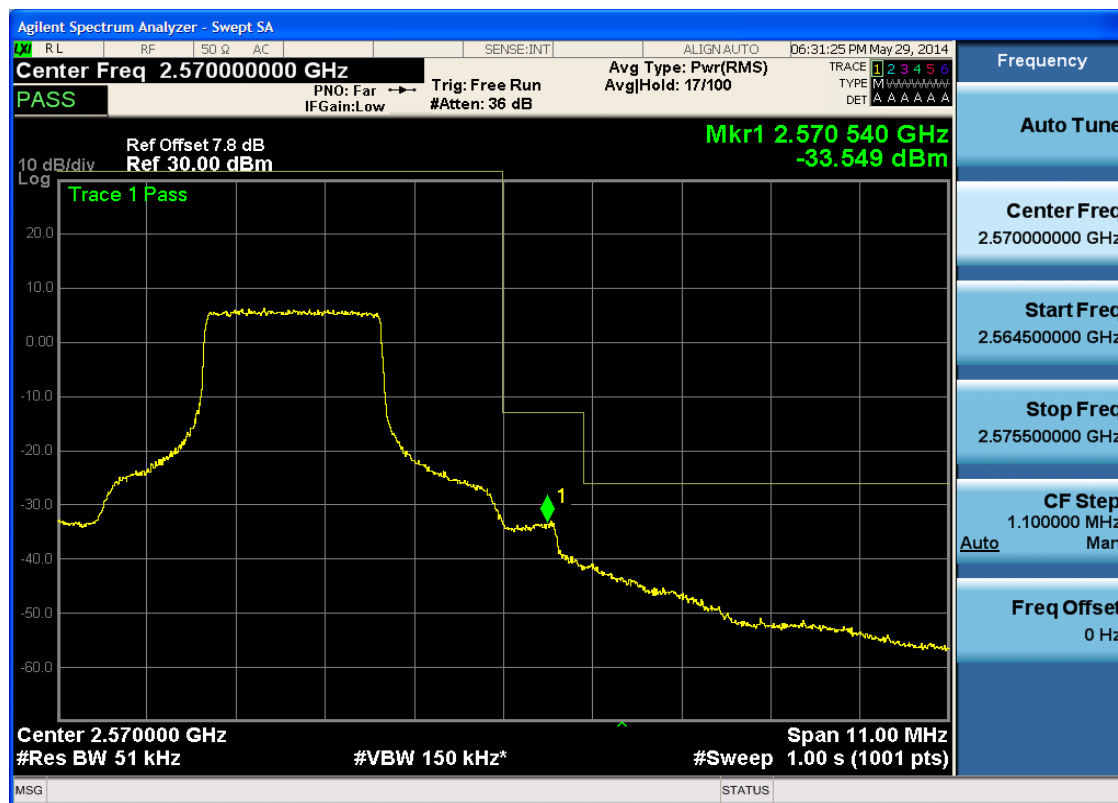


5.3.3.1.1.2.2 Test RB = RB1#24





5.3.3.1.1.2.3 Test RB = RB12#6





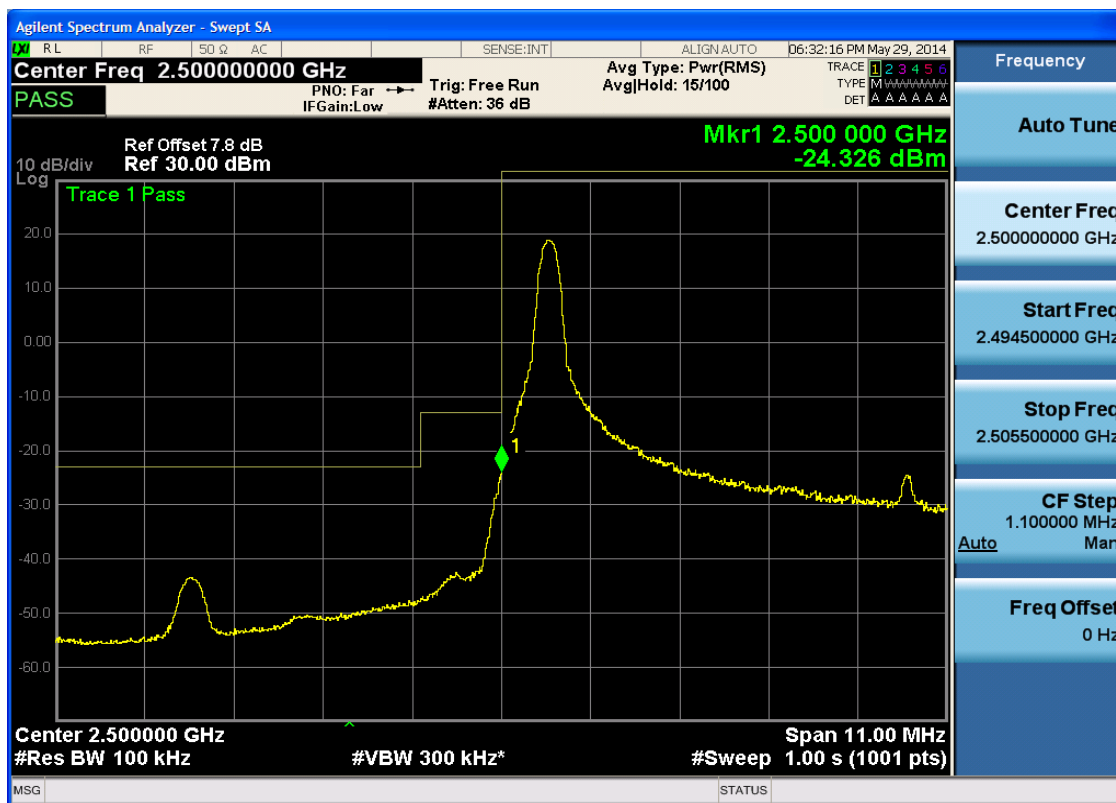
5.3.3.1.1.2.4 Test RB = RB25#0



5.3.3.1.2 Test Bandwidth = 10

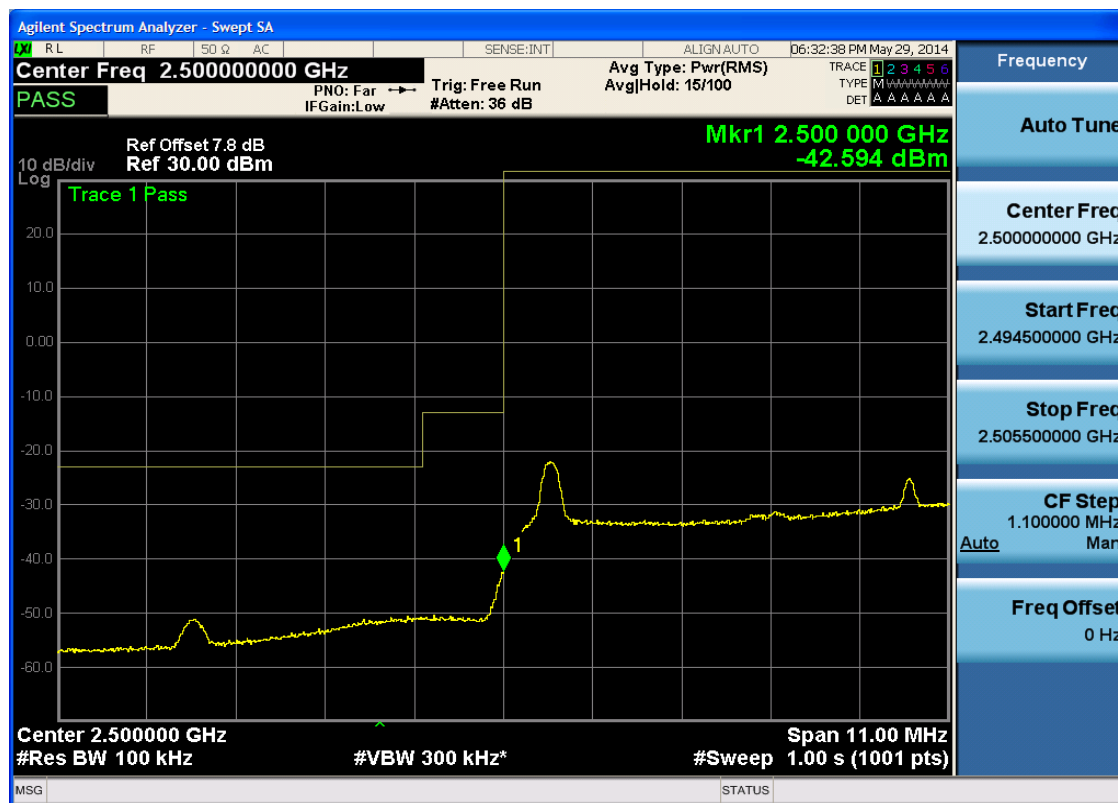
5.3.3.1.2.1 Test Channel = LCH

5.3.3.1.2.1.1 Test RB = RB1#0



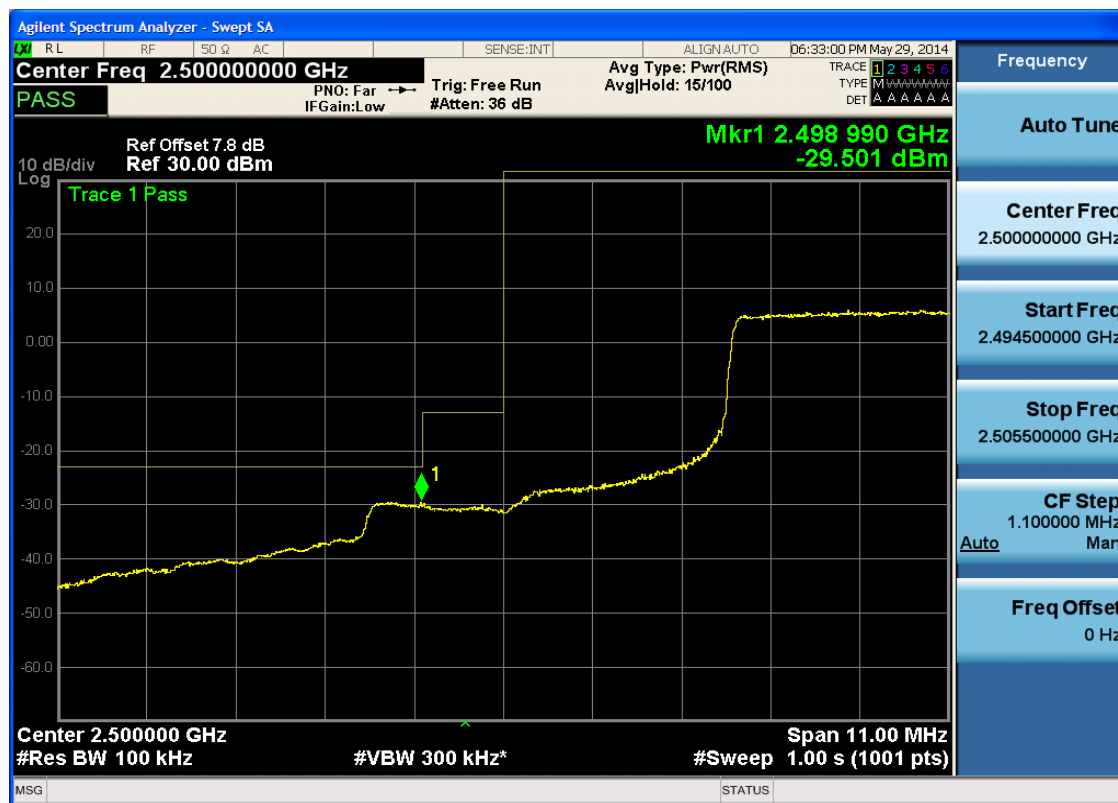


5.3.3.1.2.1.2 Test RB = RB1#49



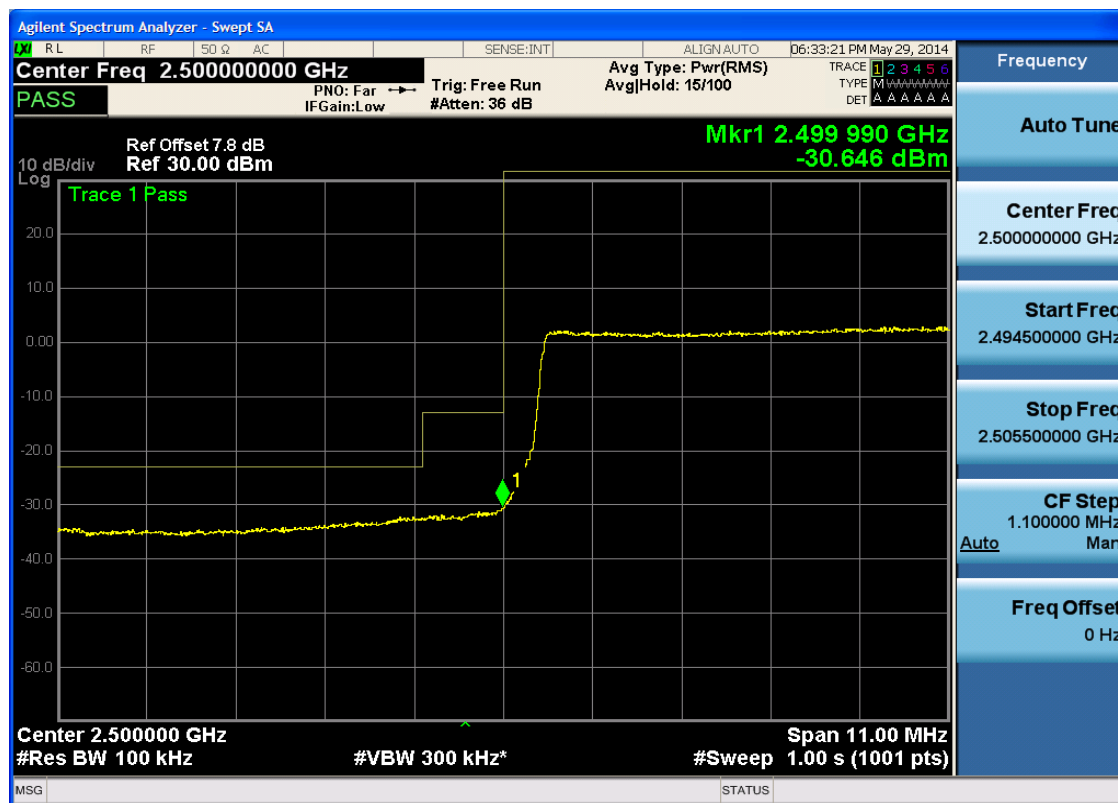


5.3.3.1.2.1.3 Test RB = RB25#13





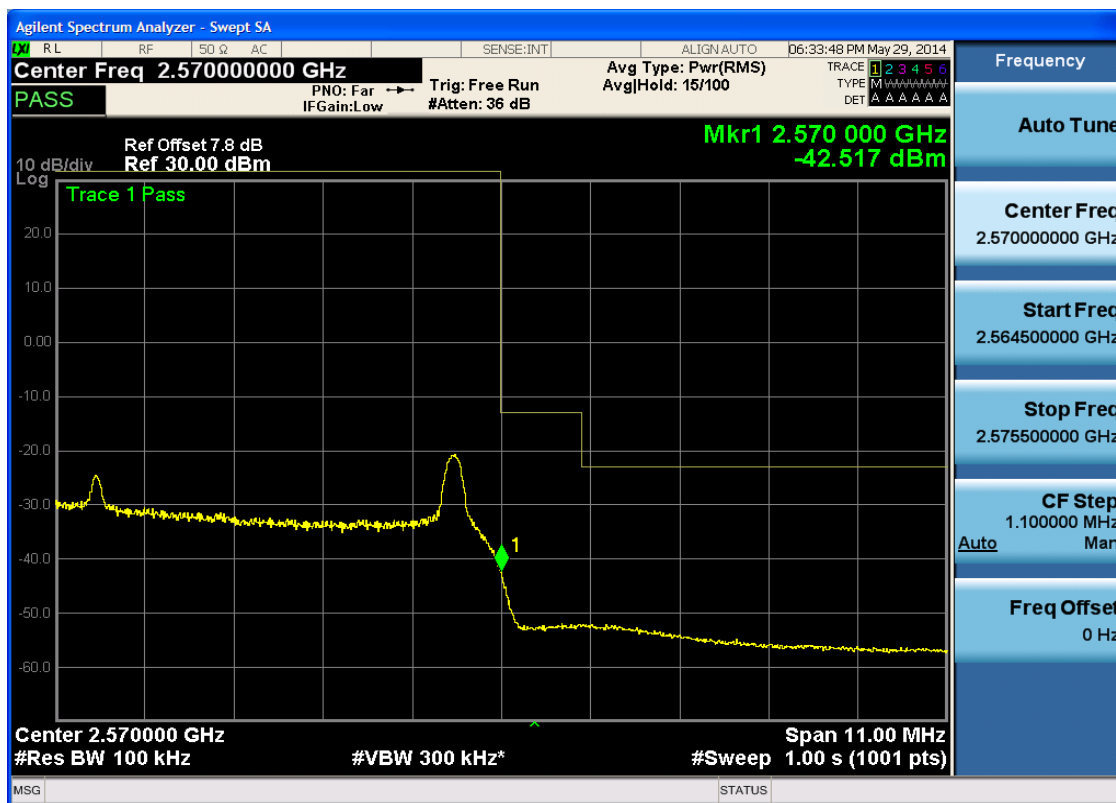
5.3.3.1.2.1.4 Test RB = RB50#0





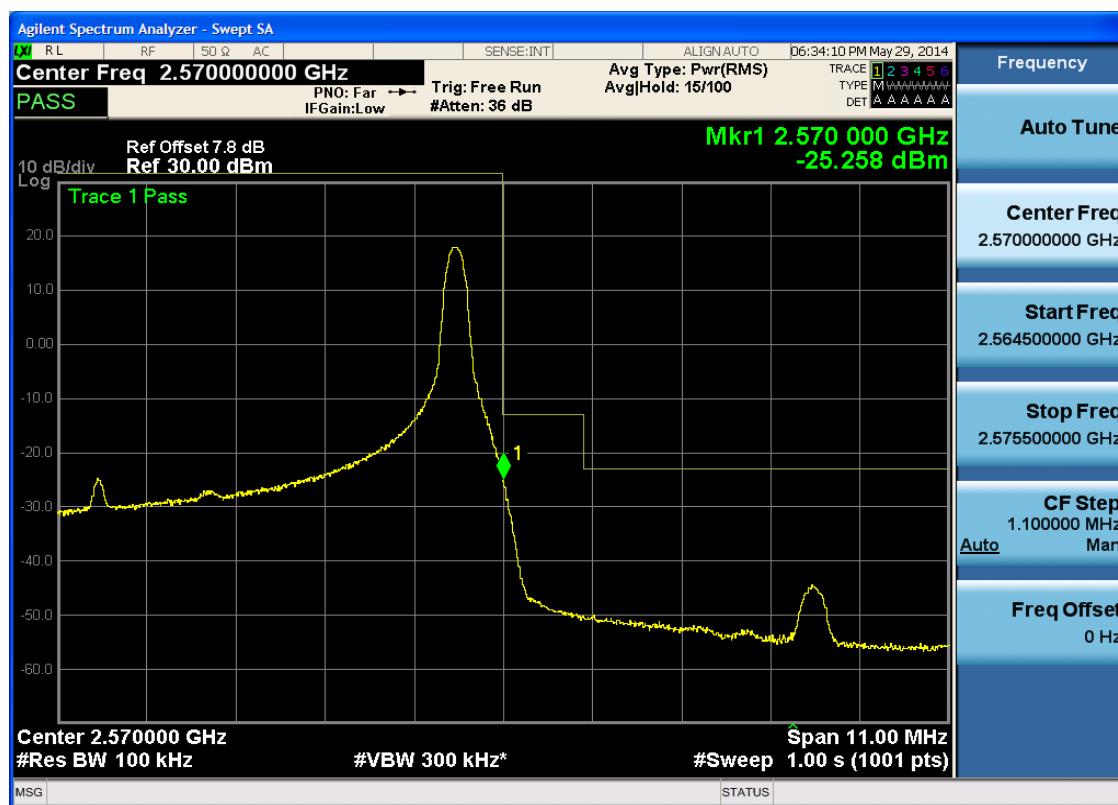
5.3.3.1.2.2 Test Channel = HCH

5.3.3.1.2.2.1 Test RB = RB1#0





5.3.3.1.2.2.2 Test RB = RB1#49





5.3.3.1.2.2.3 Test RB = RB25#13





5.3.3.1.2.2.4 Test RB = RB50#0

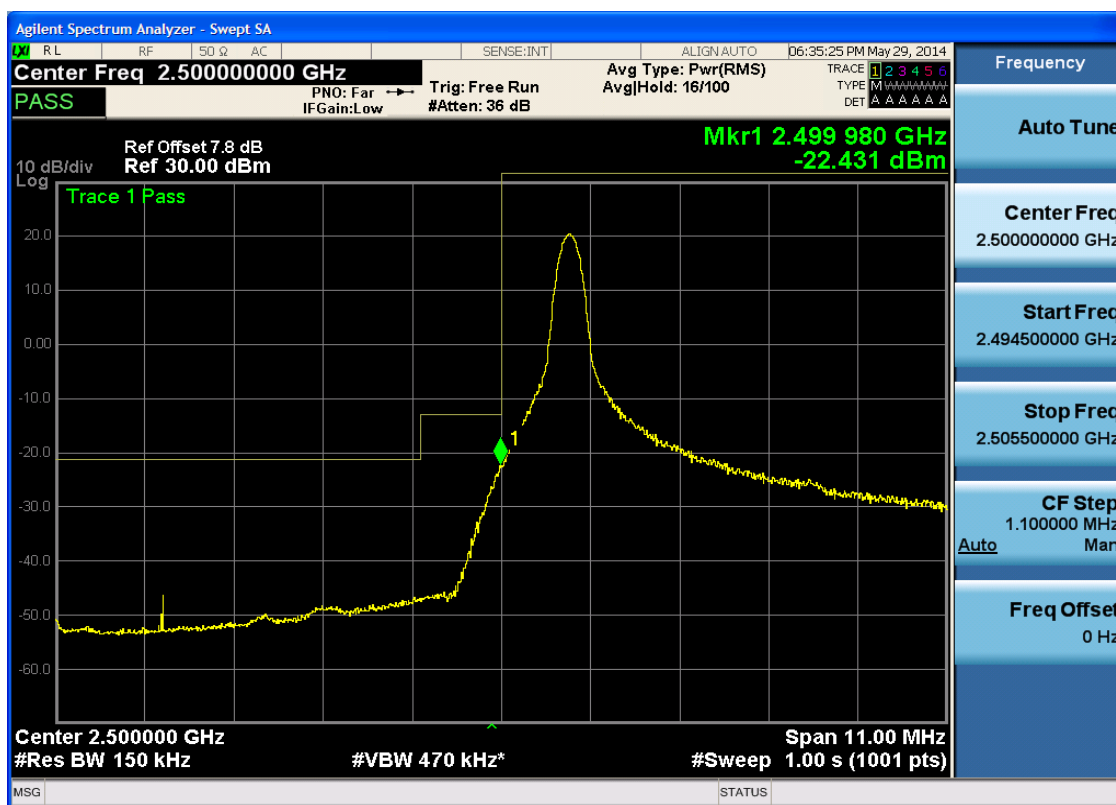




5.3.3.1.3 Test Bandwidth = 15

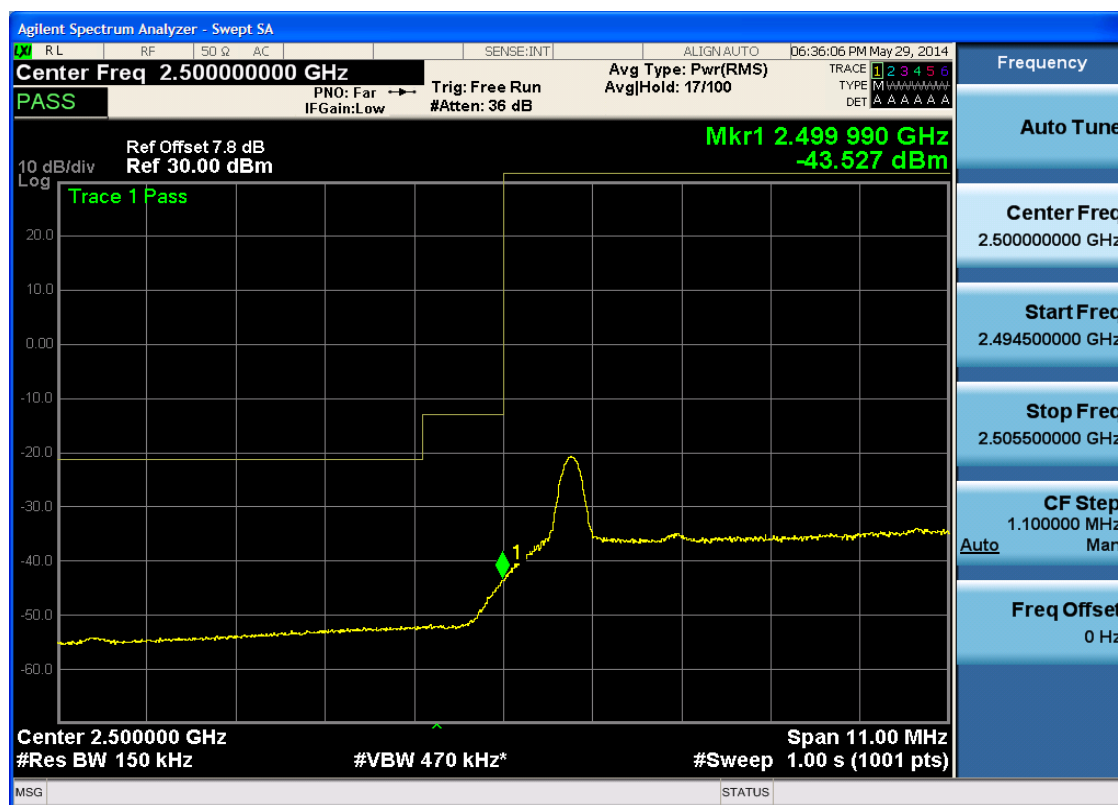
5.3.3.1.3.1 Test Channel = LCH

5.3.3.1.3.1.1 Test RB = RB1#0



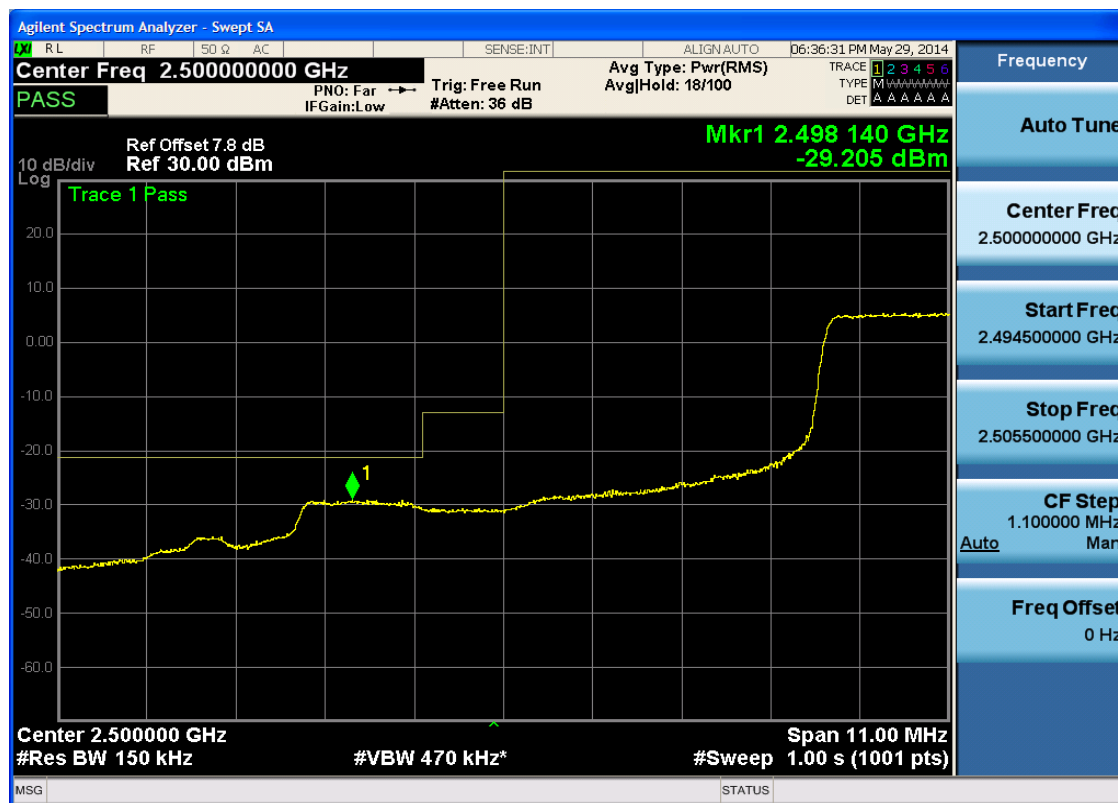


5.3.3.1.3.1.2 Test RB = RB1#74



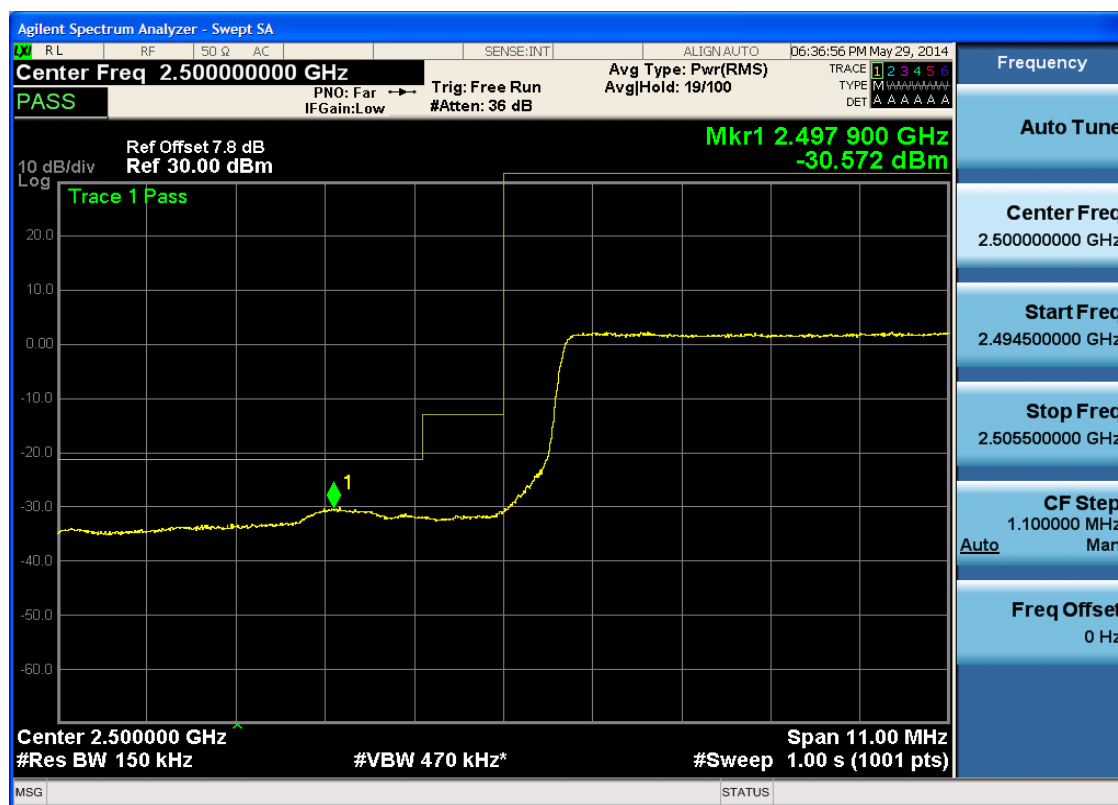


5.3.3.1.3.1.3 Test RB = RB36#18





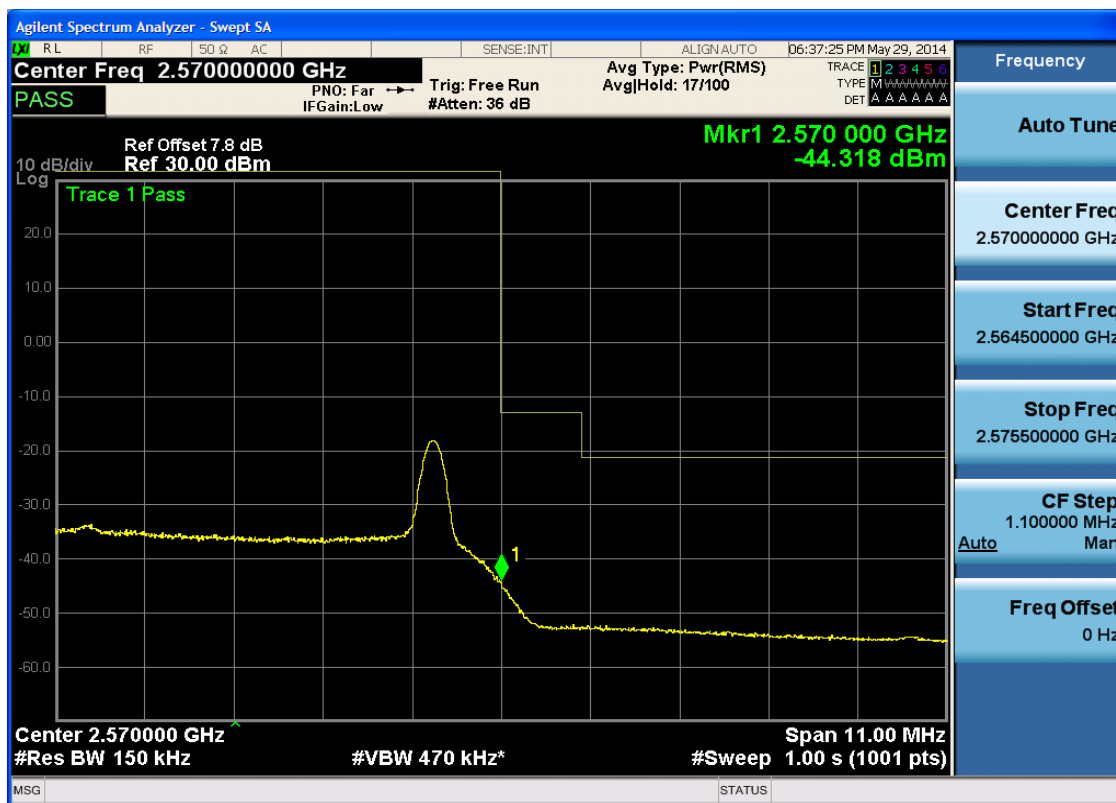
5.3.3.1.3.1.4 Test RB = RB75#0





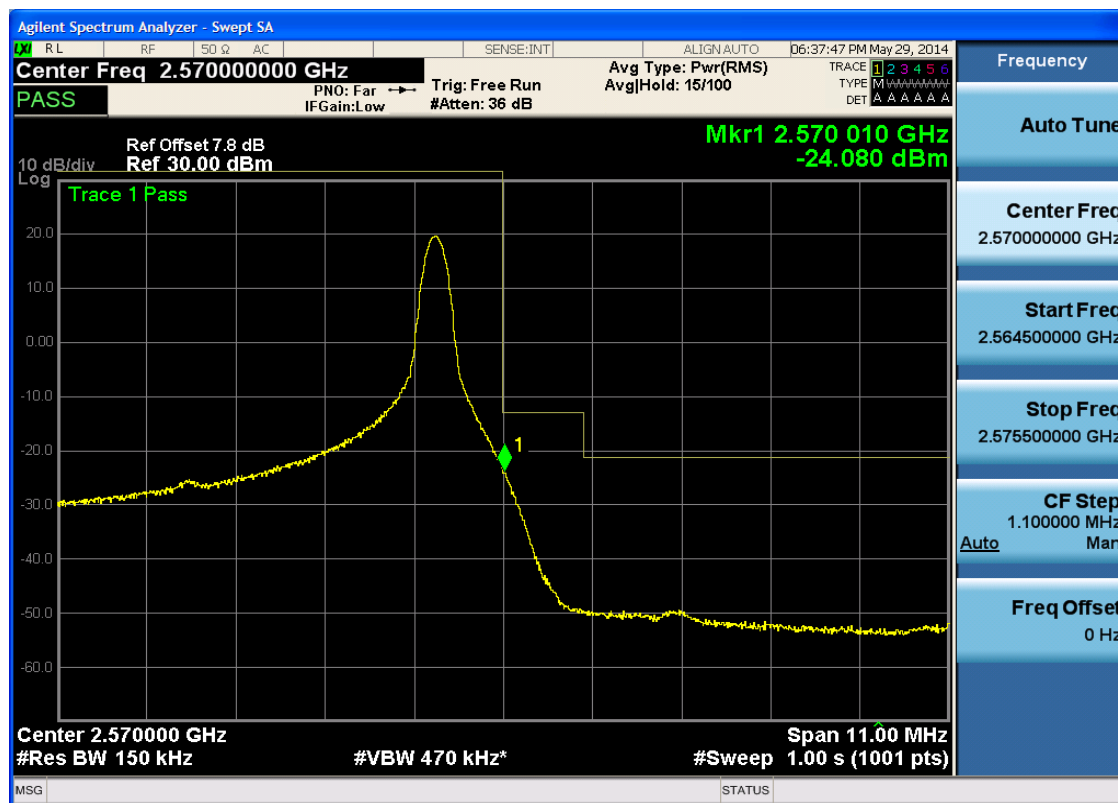
5.3.3.1.3.2 Test Channel = HCH

5.3.3.1.3.2.1 Test RB = RB1#0





5.3.3.1.3.2.2 Test RB = RB1#74



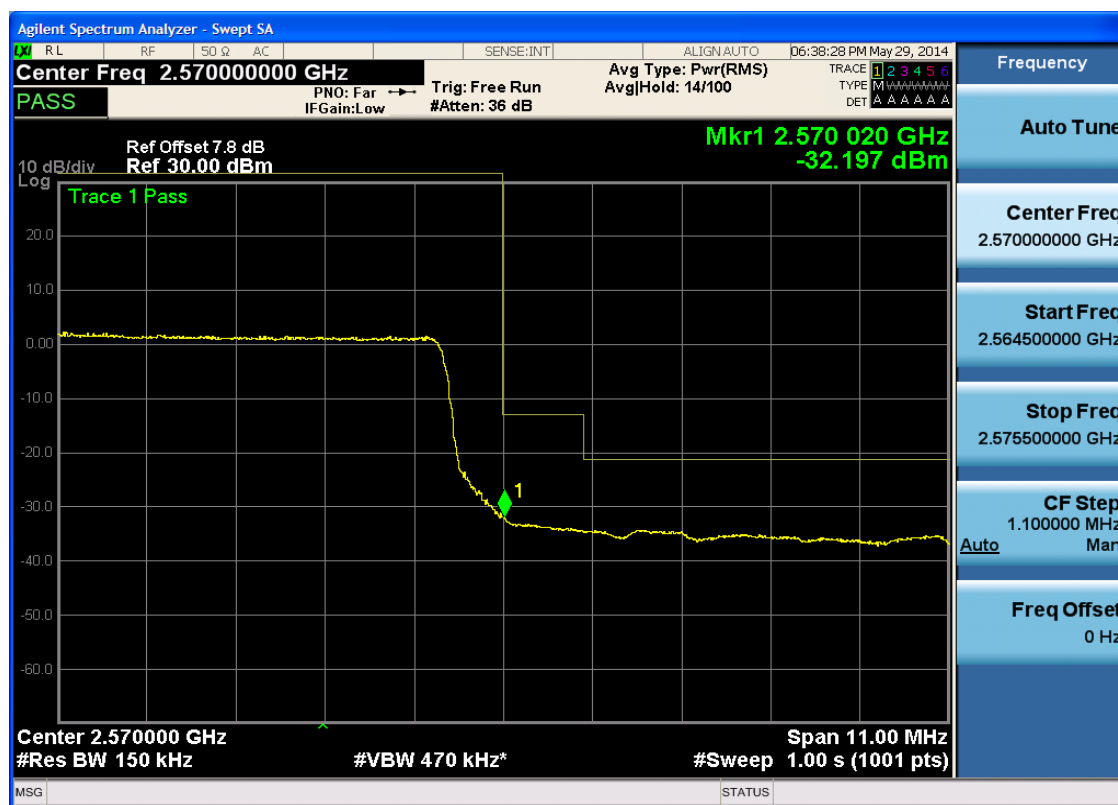


5.3.3.1.3.2.3 Test RB = RB36#18





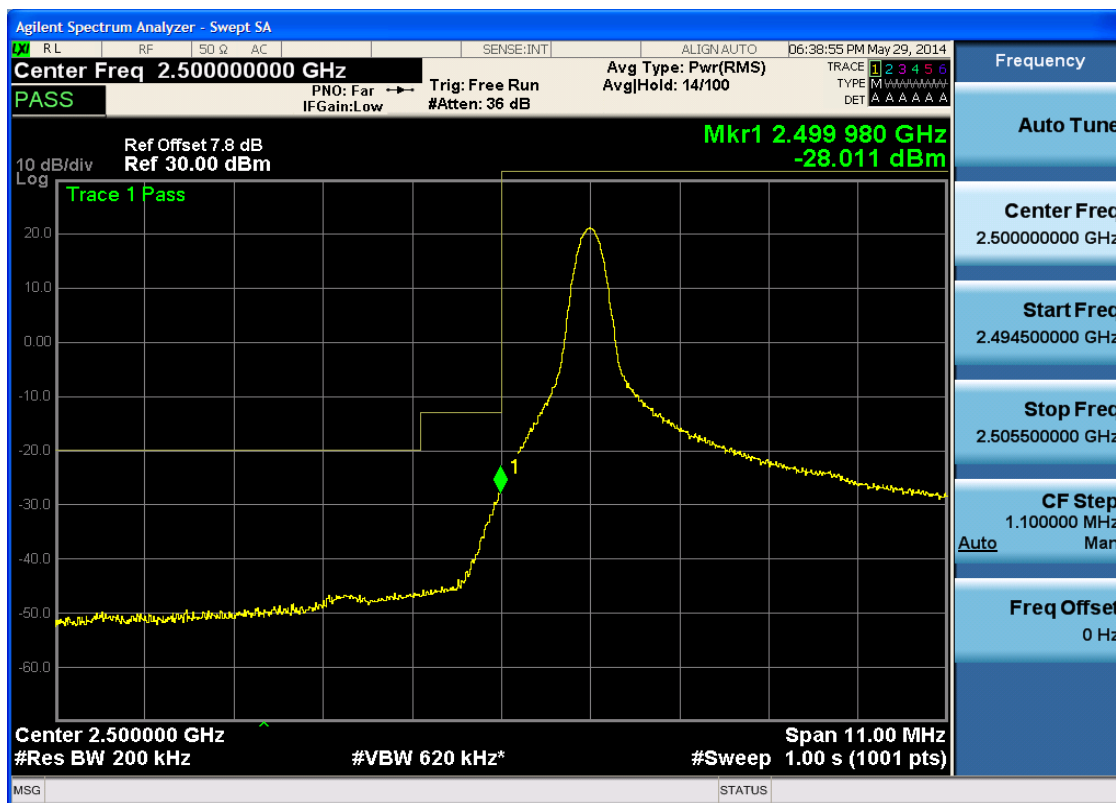
5.3.3.1.3.2.4 Test RB = RB75#0



5.3.3.1.4 Test Bandwidth = 20

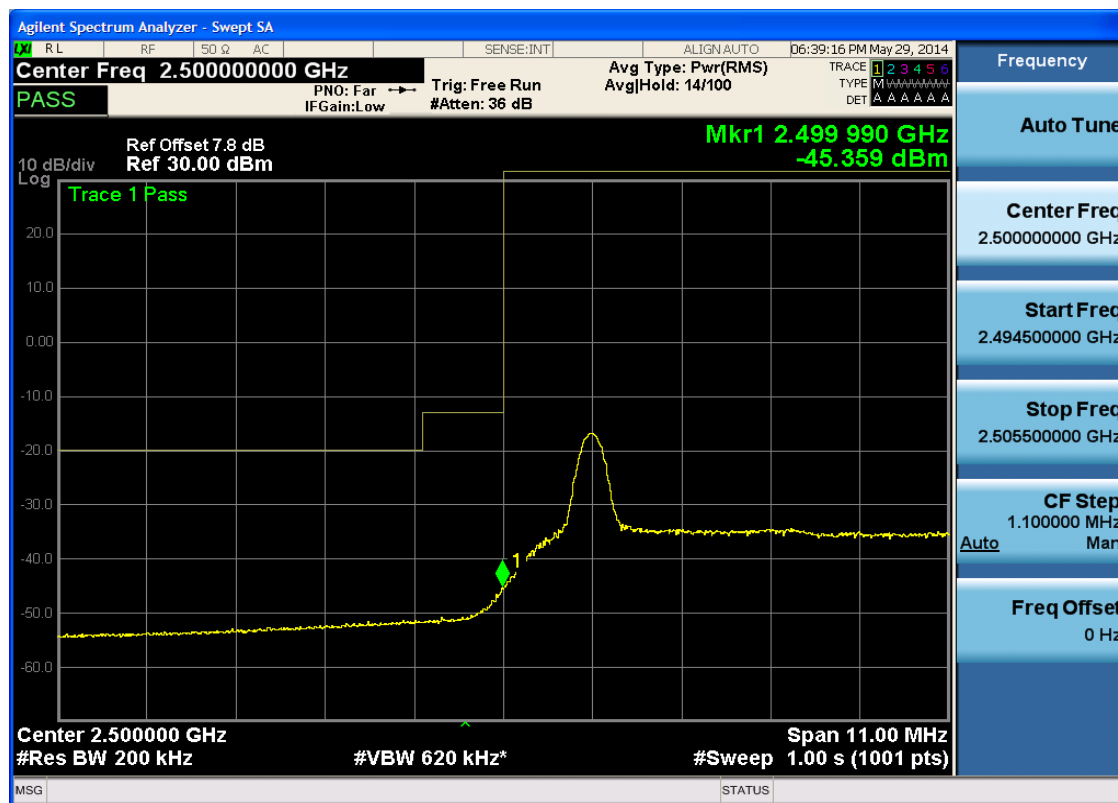
5.3.3.1.4.1 Test Channel = LCH

5.3.3.1.4.1.1 Test RB = RB1#0



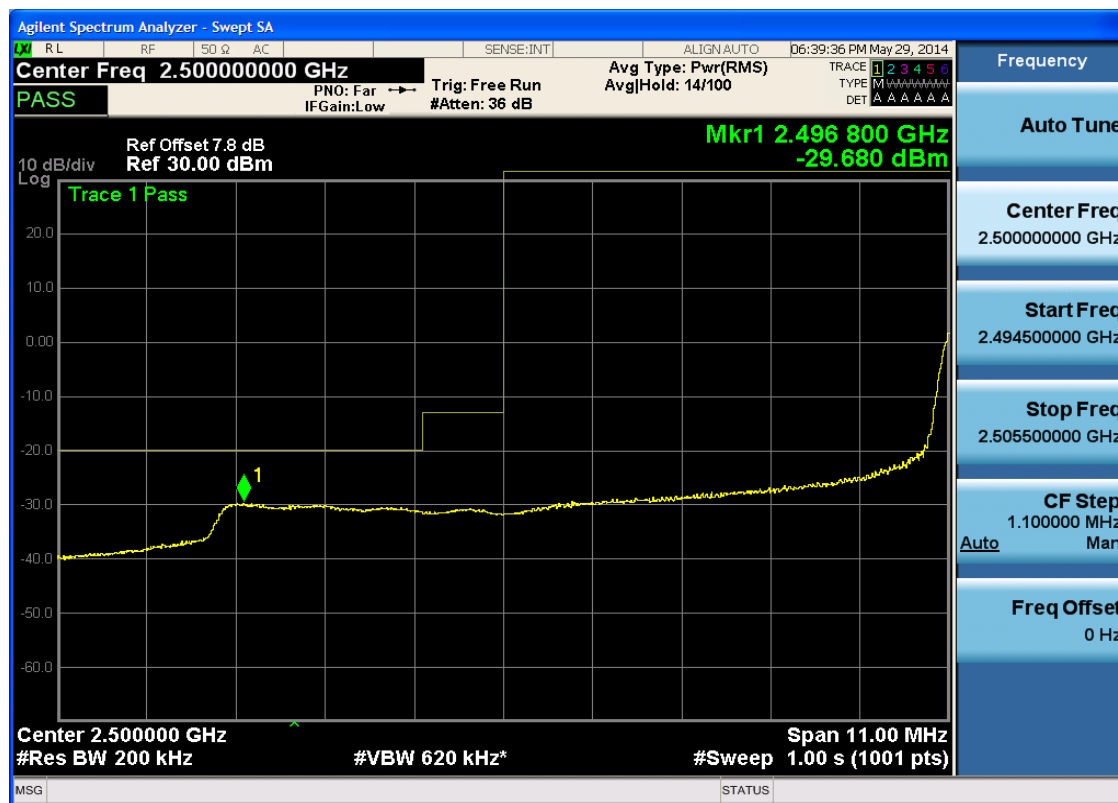


5.3.3.1.4.1.2 Test RB = RB1#99



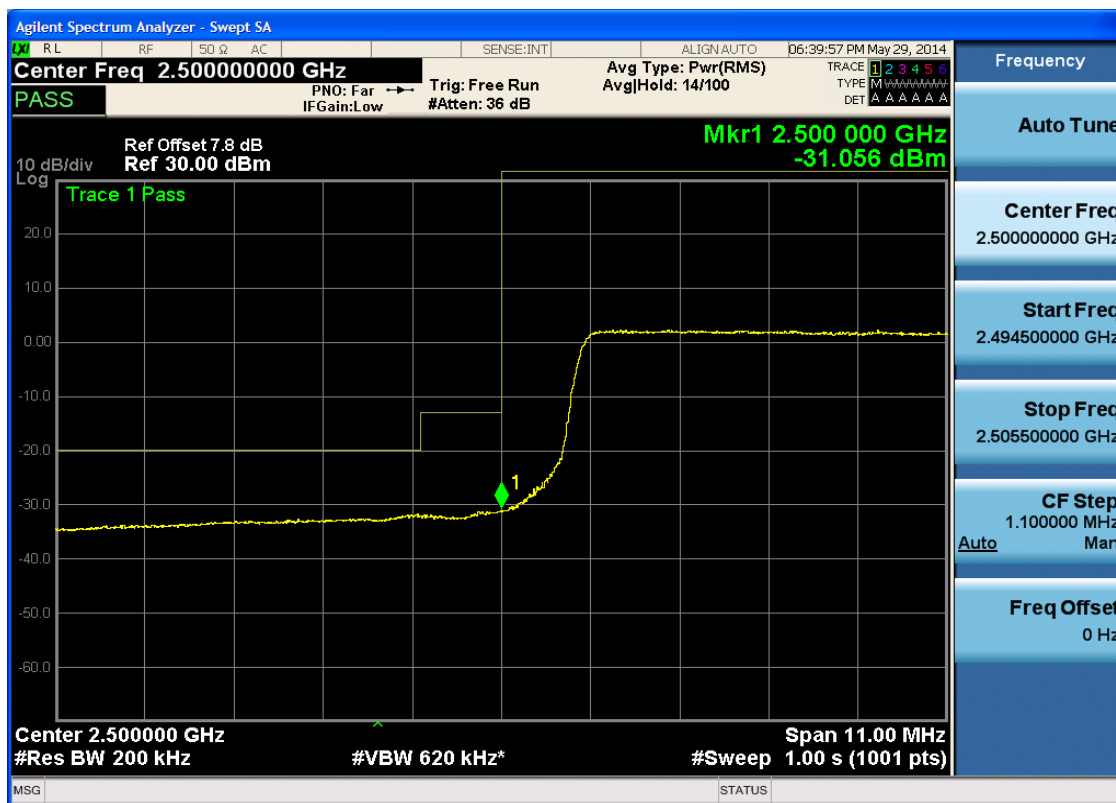


5.3.3.1.4.1.3 Test RB = RB50#25





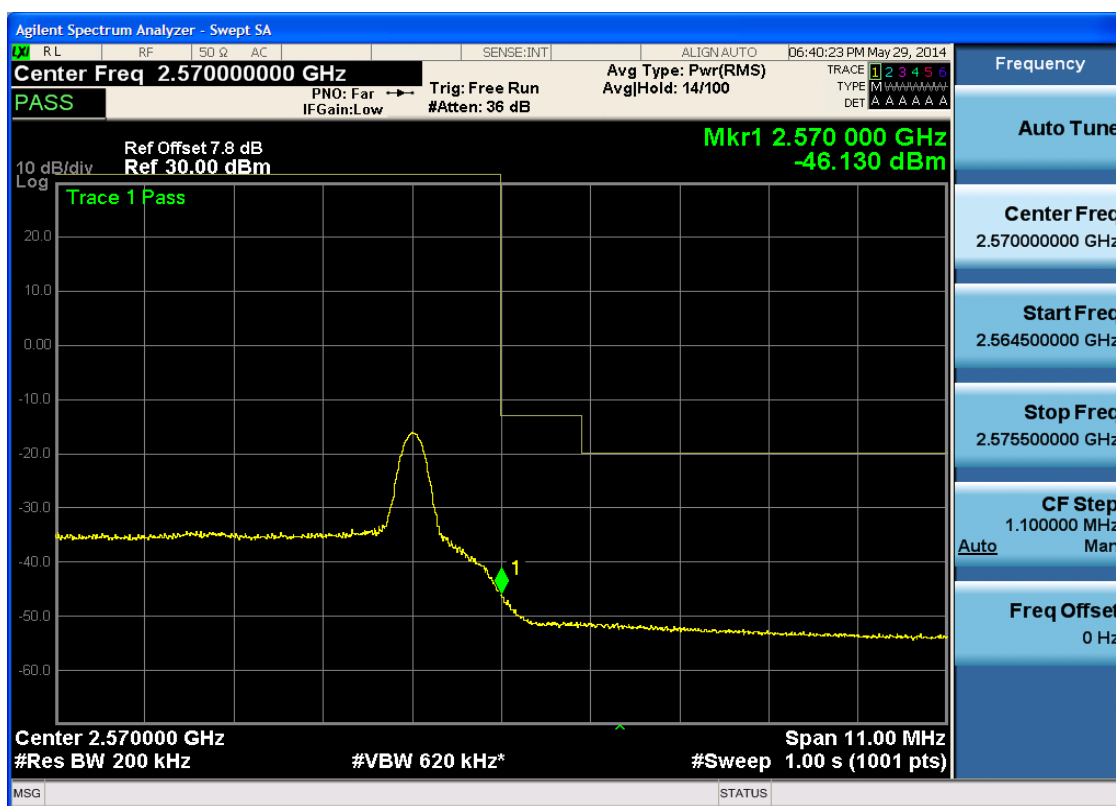
5.3.3.1.4.1.4 Test RB = RB100#0





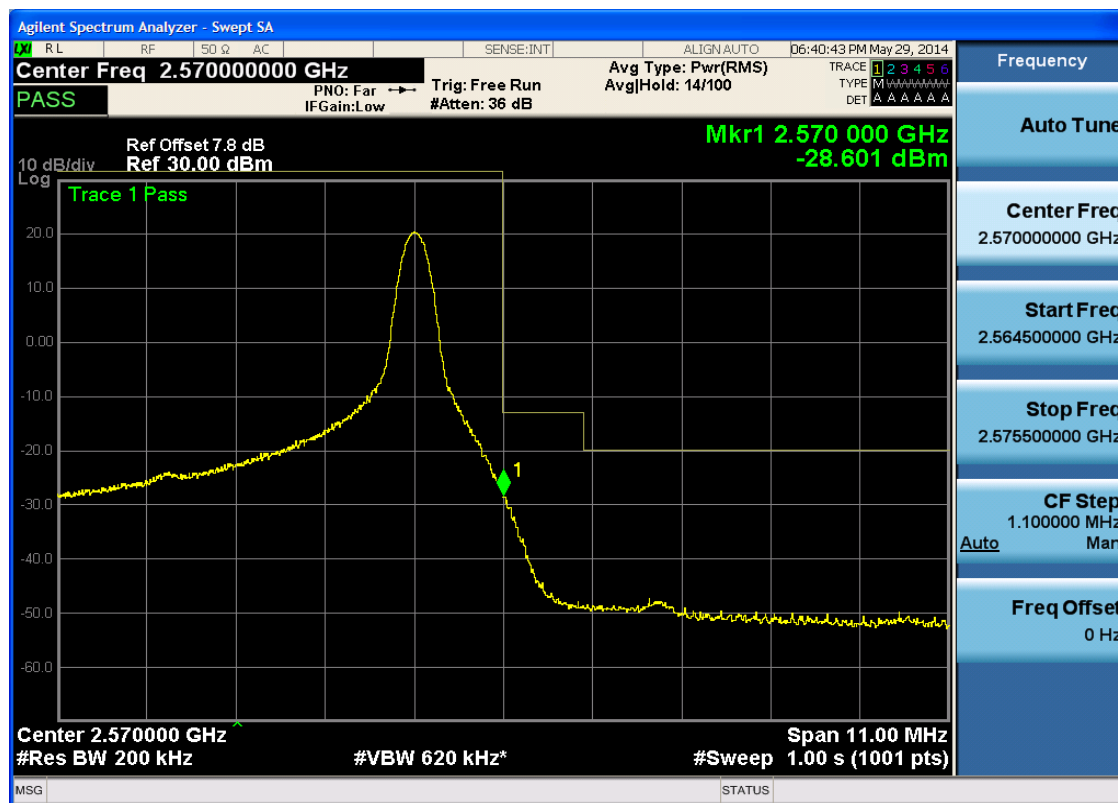
5.3.3.1.4.2 Test Channel = HCH

5.3.3.1.4.2.1 Test RB = RB1#0





5.3.3.1.4.2.2 Test RB = RB1#99



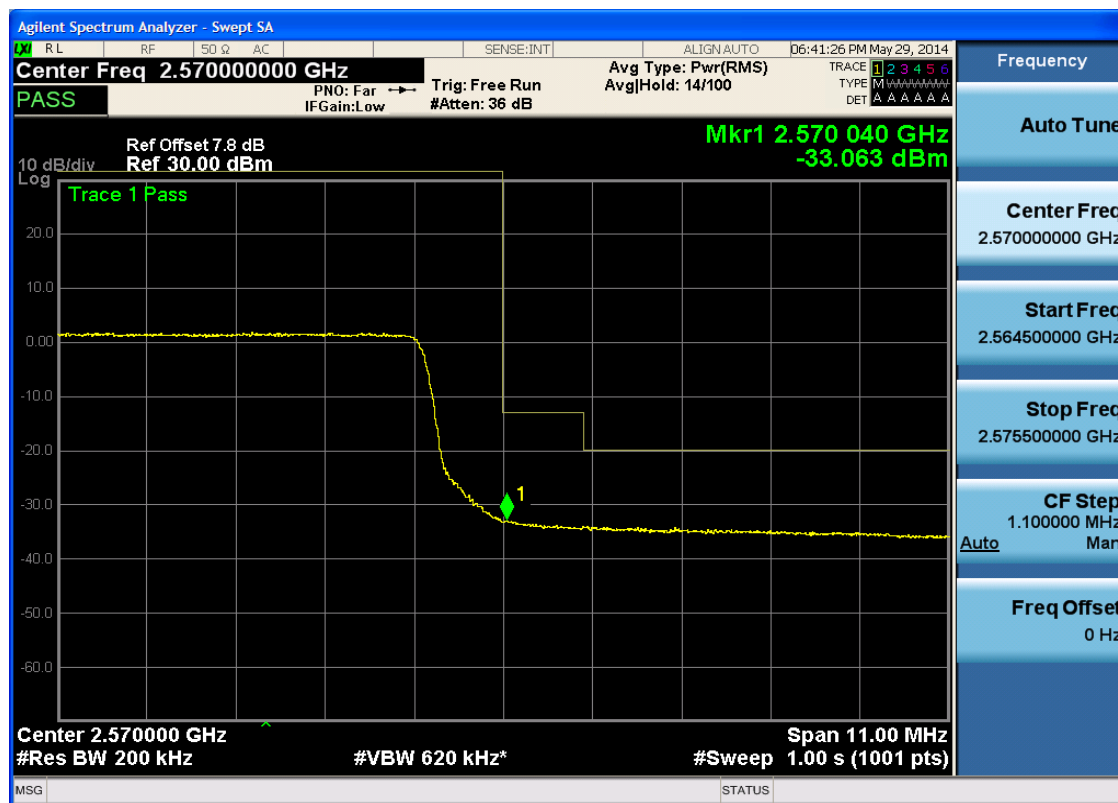


5.3.3.1.4.2.3 Test RB = RB50#25





5.3.3.1.4.2.4 Test RB = RB100#0

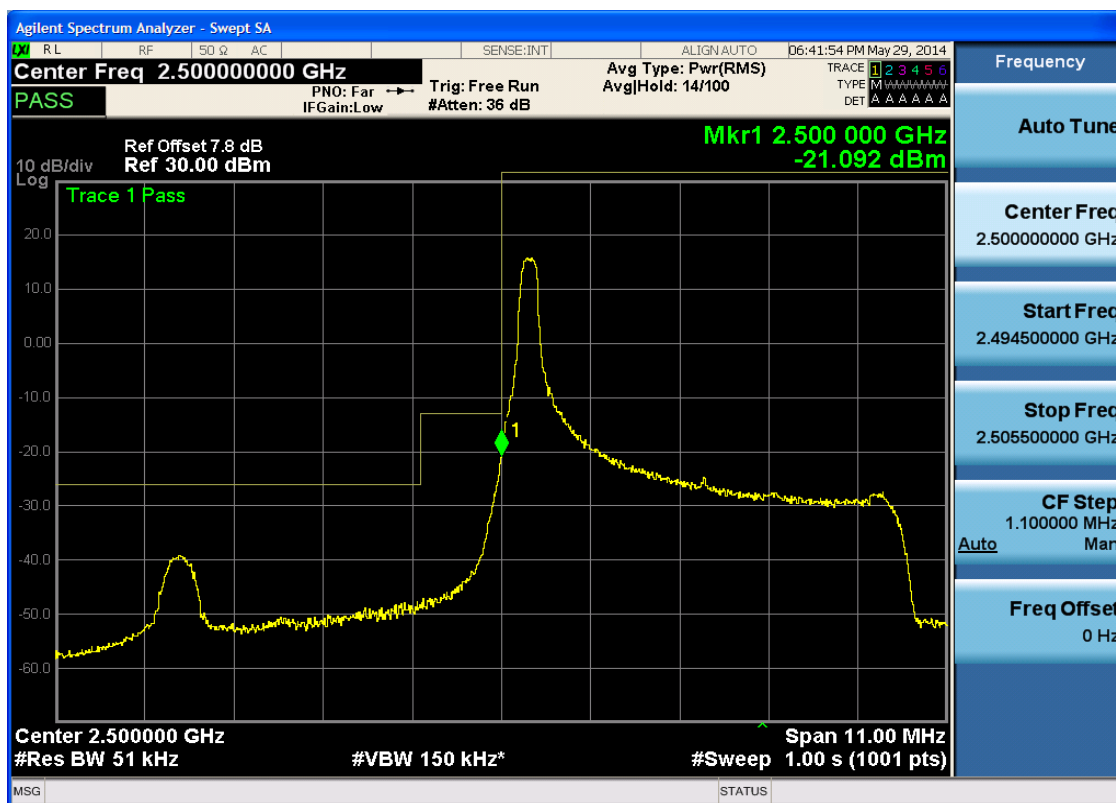


5.3.3.2 Test Mode = LTE/TM2

5.3.3.2.1 Test Bandwidth = 5

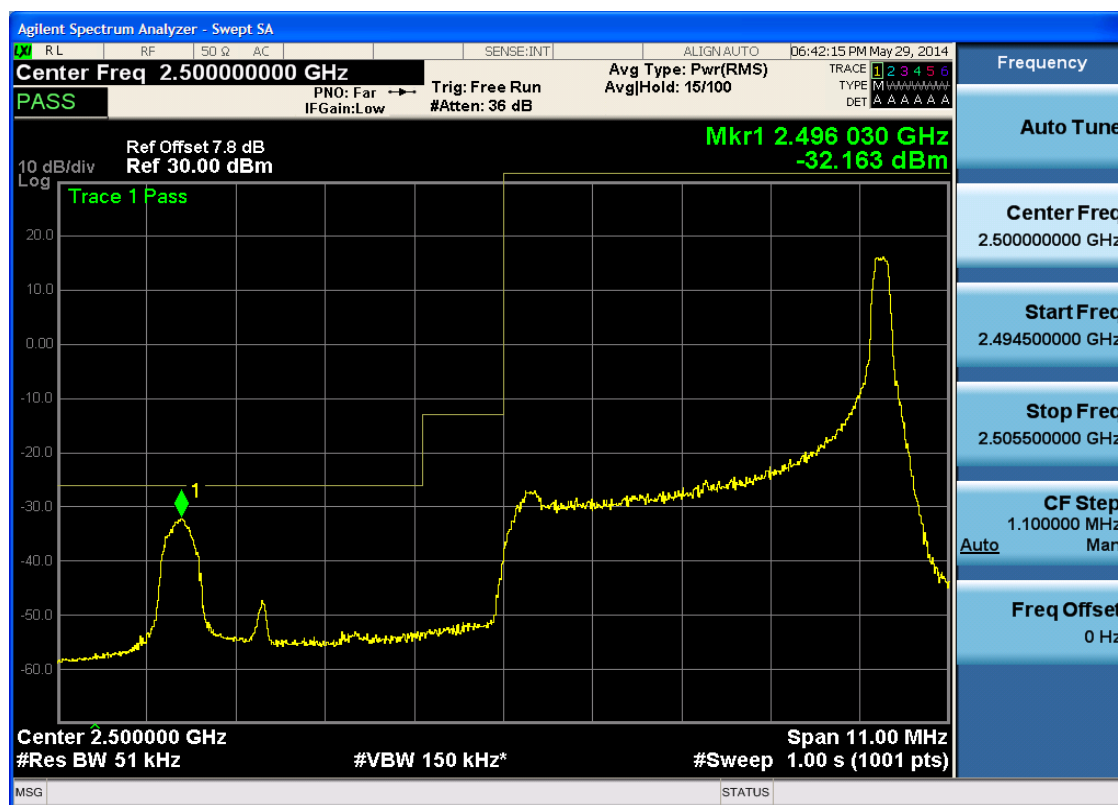
5.3.3.2.1.1 Test Channel = LCH

5.3.3.2.1.1.1 Test RB = RB1#0



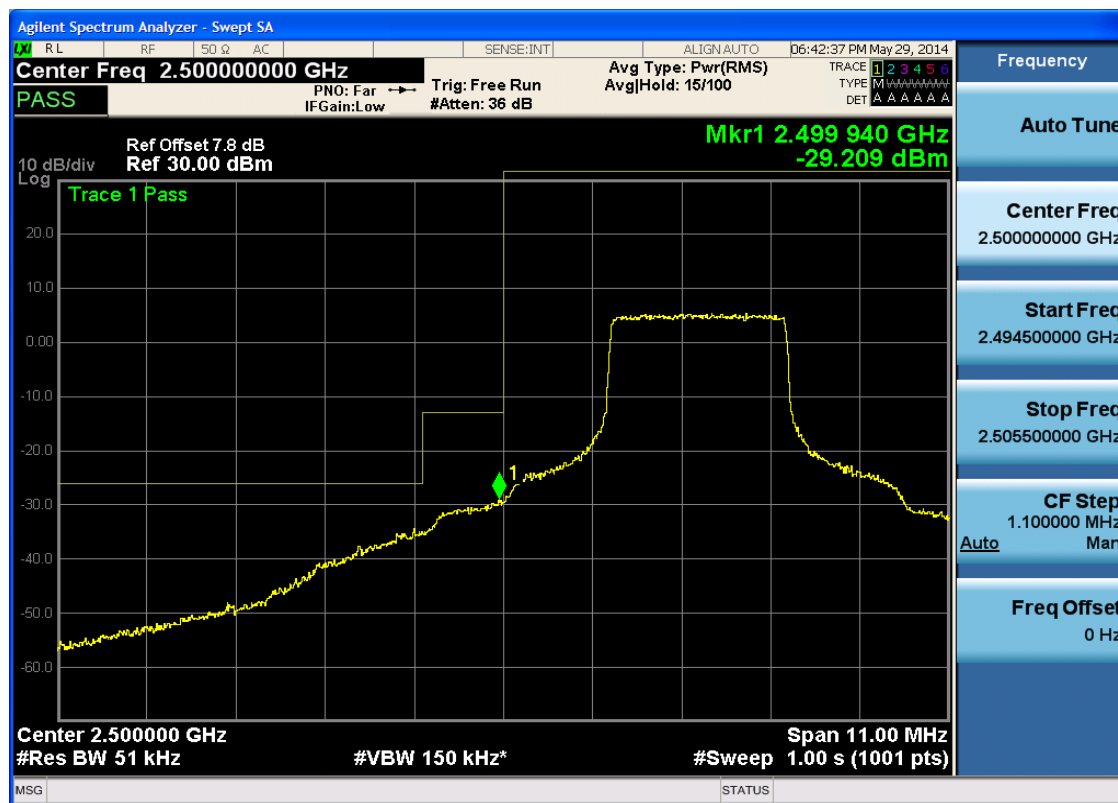


5.3.3.2.1.1.2 Test RB = RB1#24



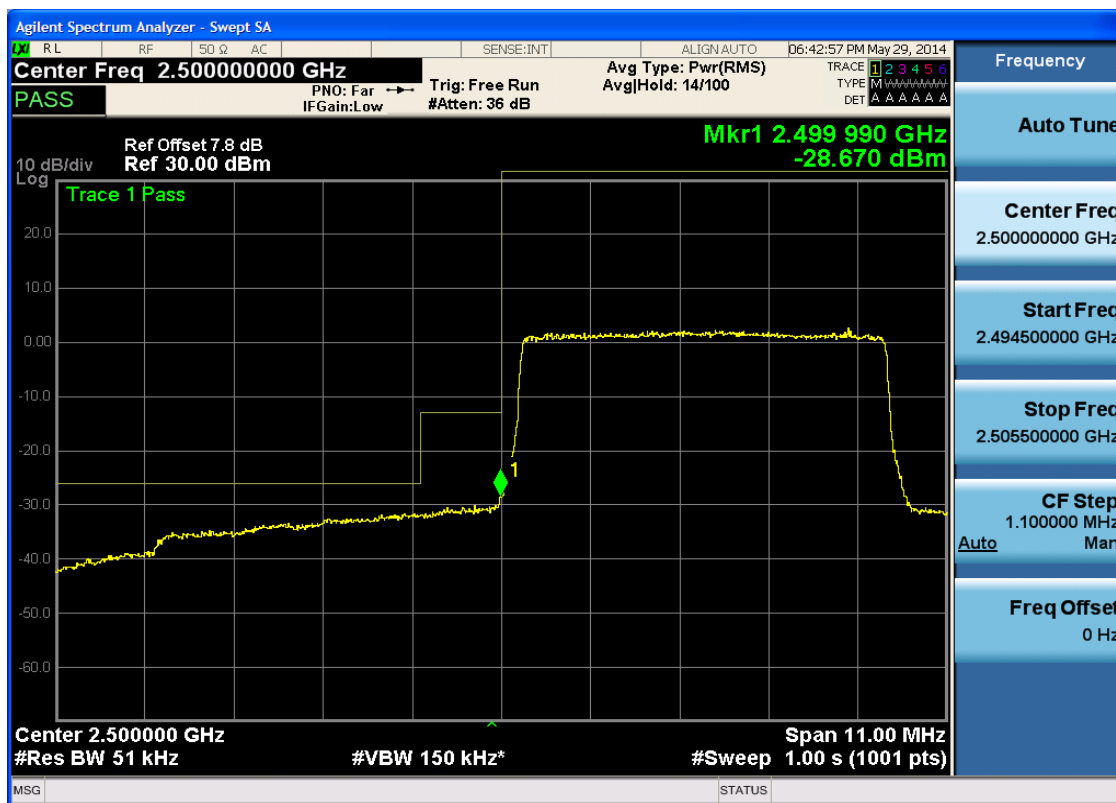


5.3.3.2.1.1.3 Test RB = RB12#6



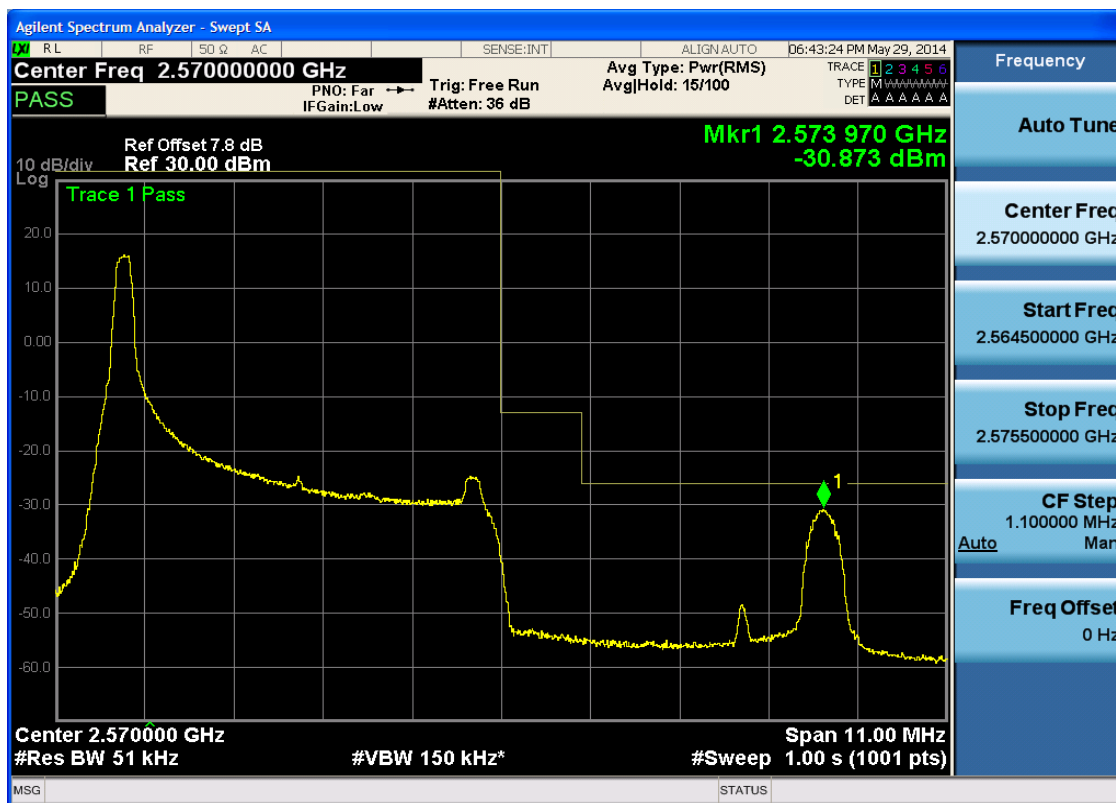


5.3.3.2.1.1.4 Test RB = RB25#0



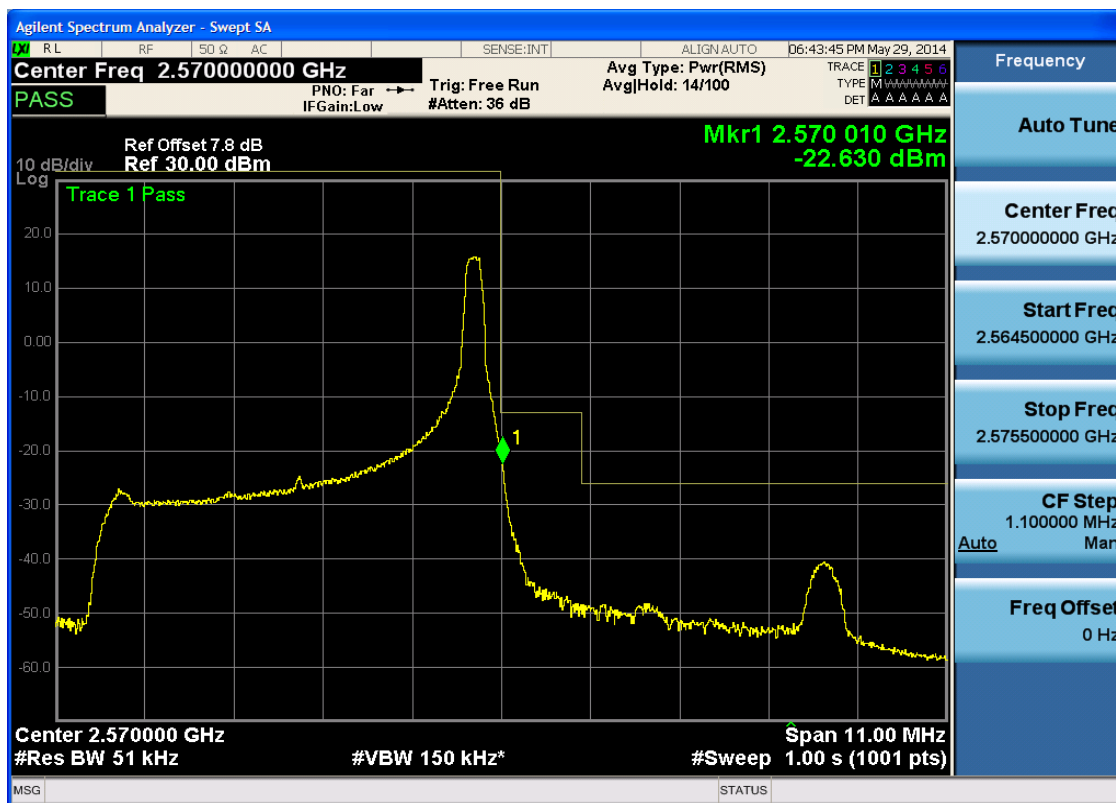
5.3.3.2.1.2 Test Channel = HCH

5.3.3.2.1.2.1 Test RB = RB1#0





5.3.3.2.1.2.2 Test RB = RB1#24





5.3.3.2.1.2.3 Test RB = RB12#6





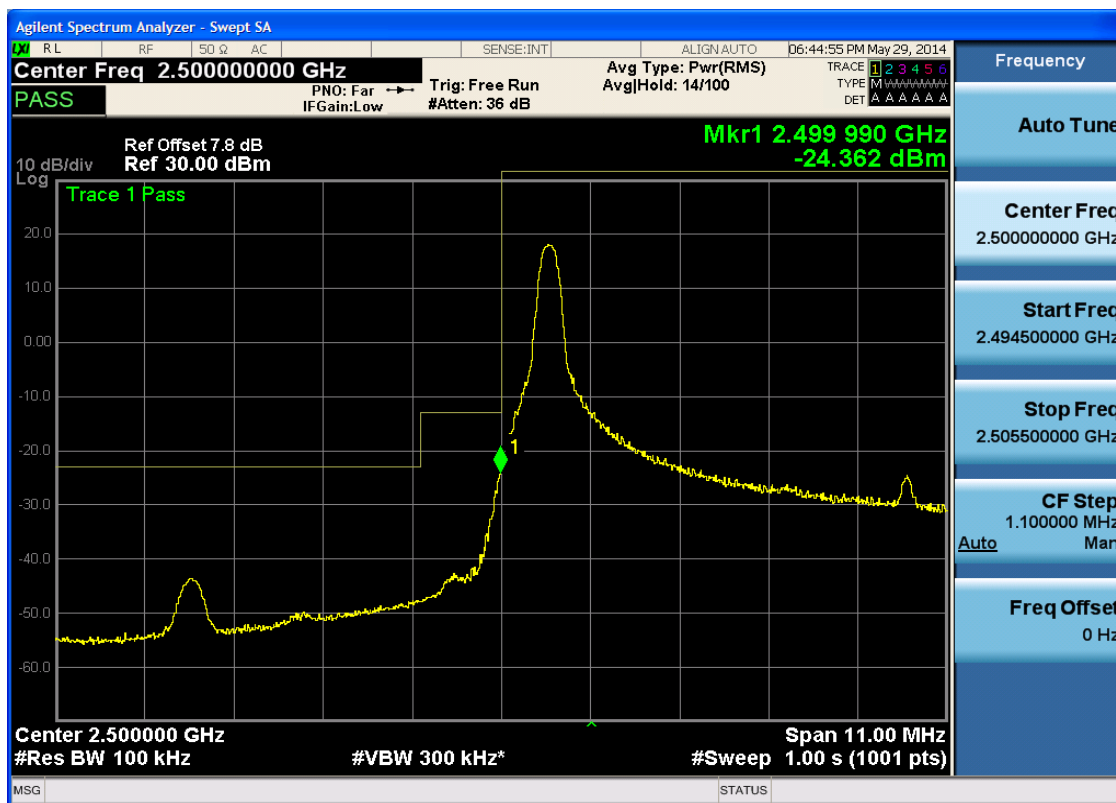
5.3.3.2.1.2.4 Test RB = RB25#0



5.3.3.2.2 Test Bandwidth = 10

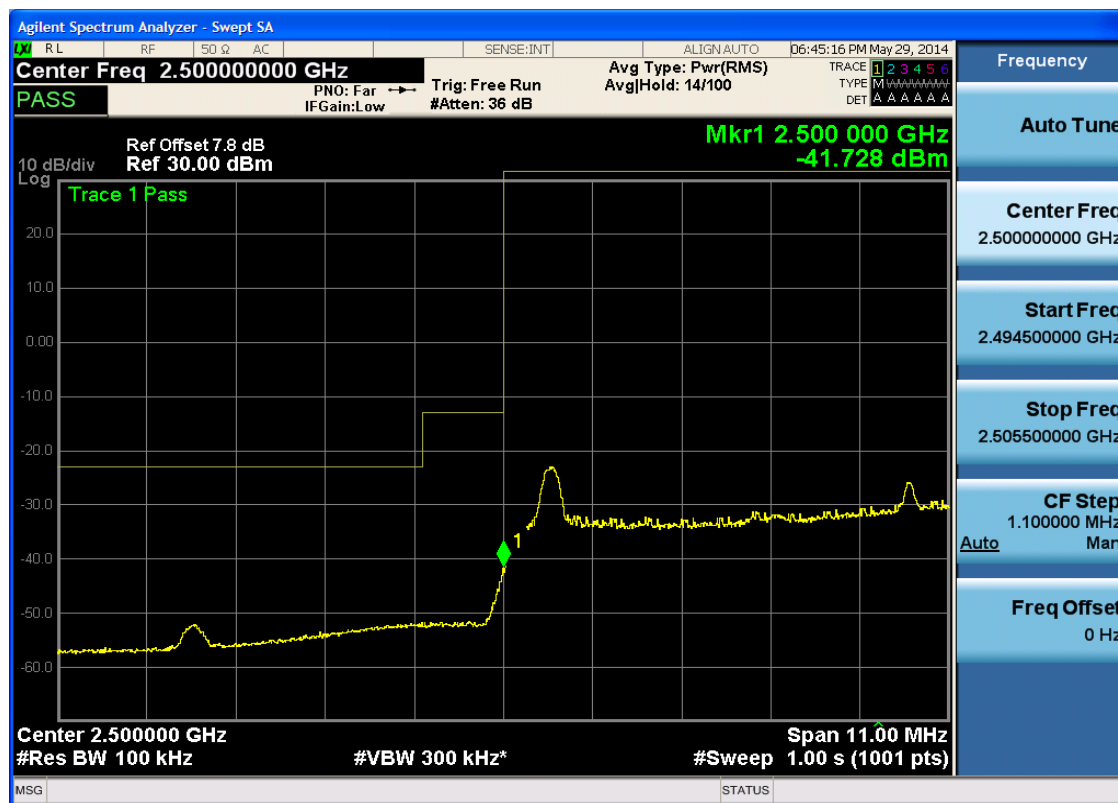
5.3.3.2.2.1 Test Channel = LCH

5.3.3.2.2.1.1 Test RB = RB1#0



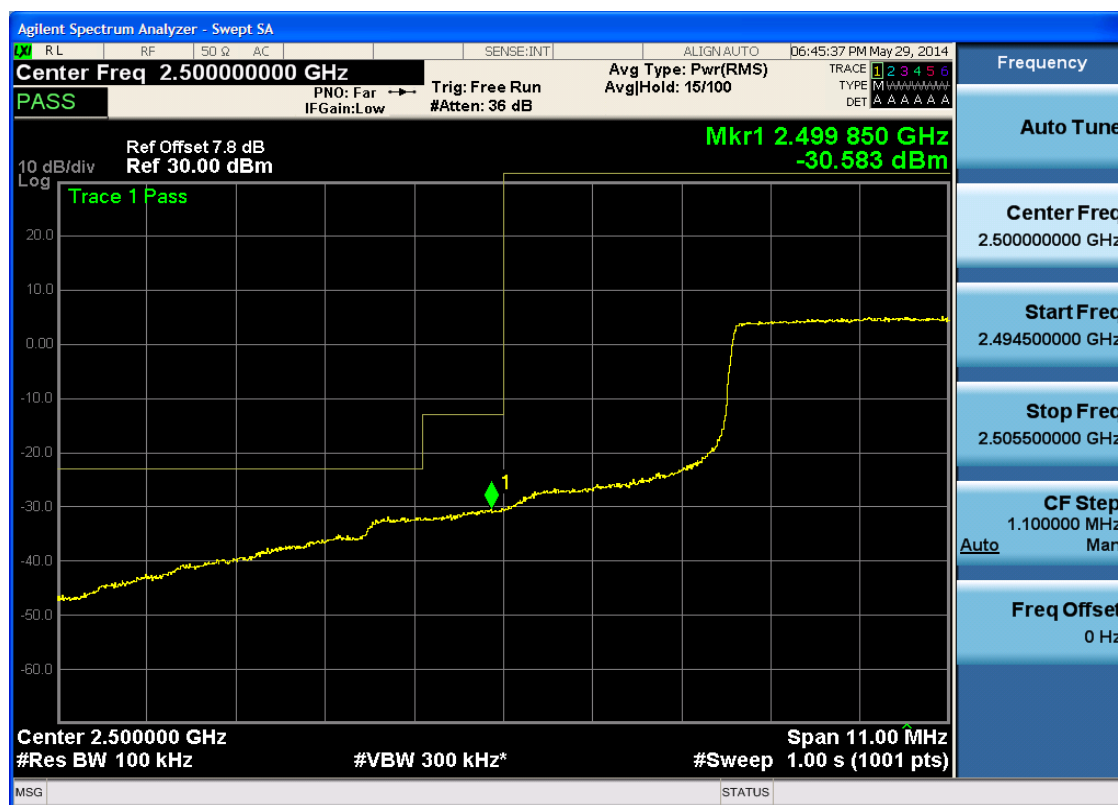


5.3.3.2.2.1.2 Test RB = RB1#49



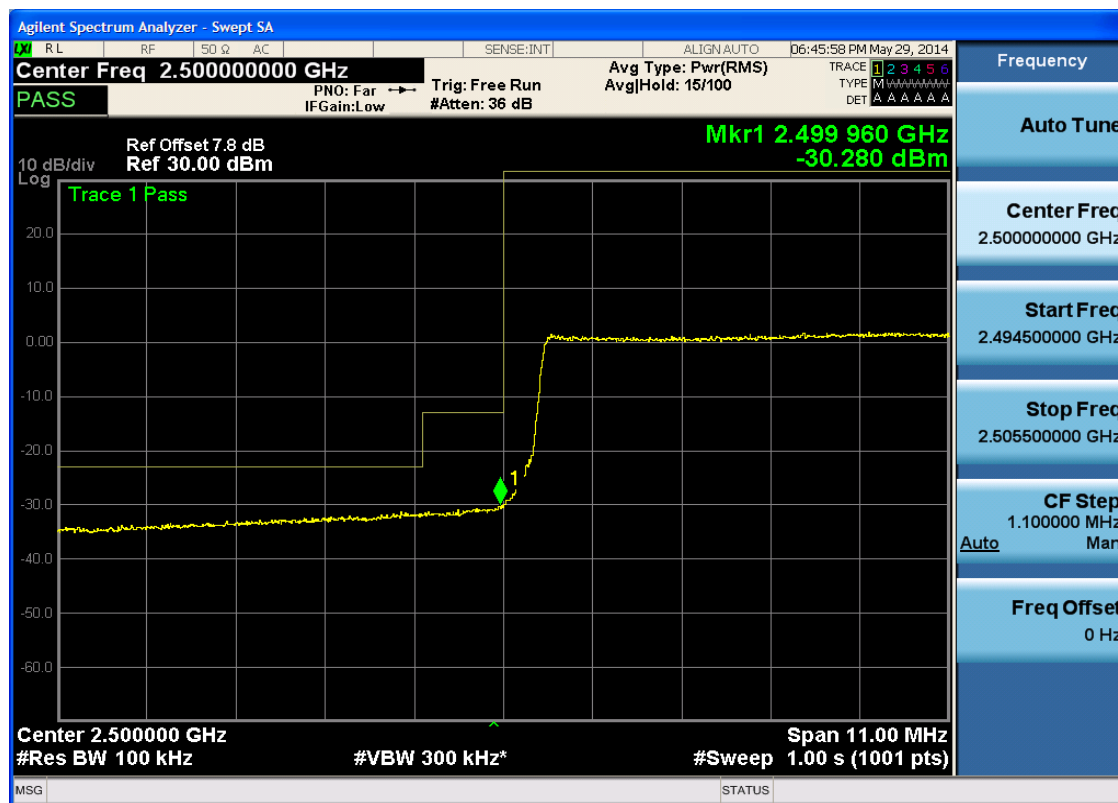


5.3.3.2.2.1.3 Test RB = RB25#13





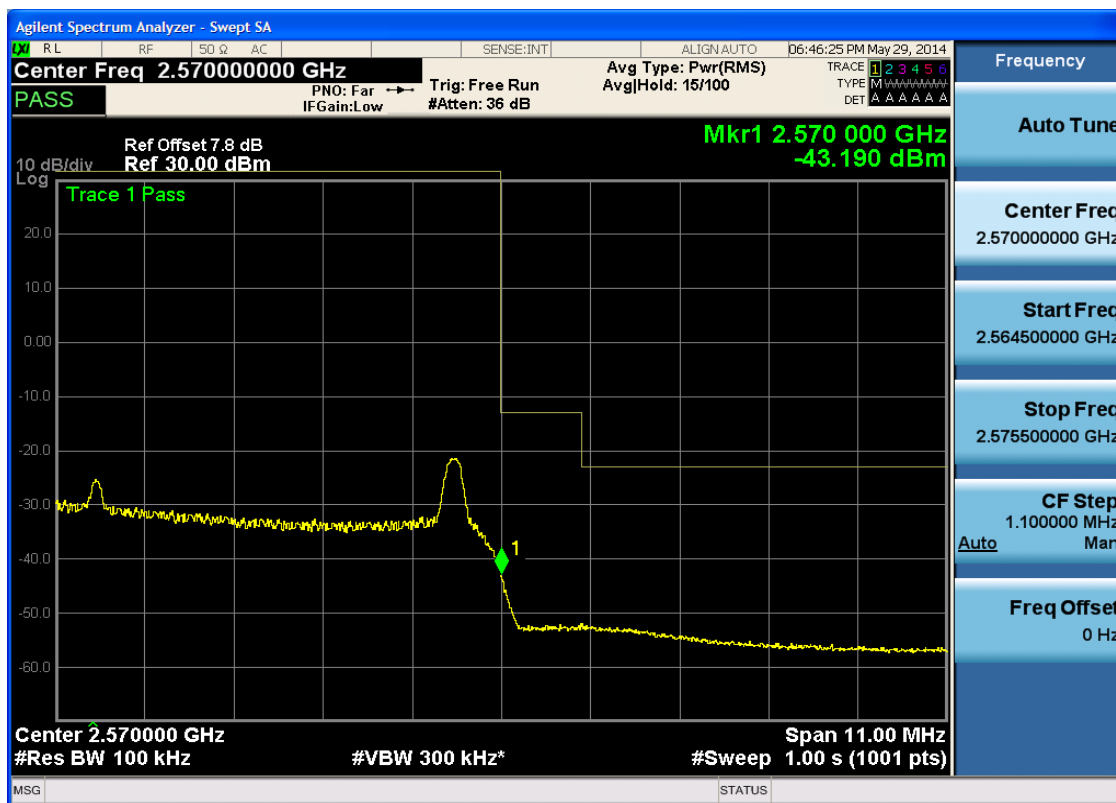
5.3.3.2.2.1.4 Test RB = RB50#0





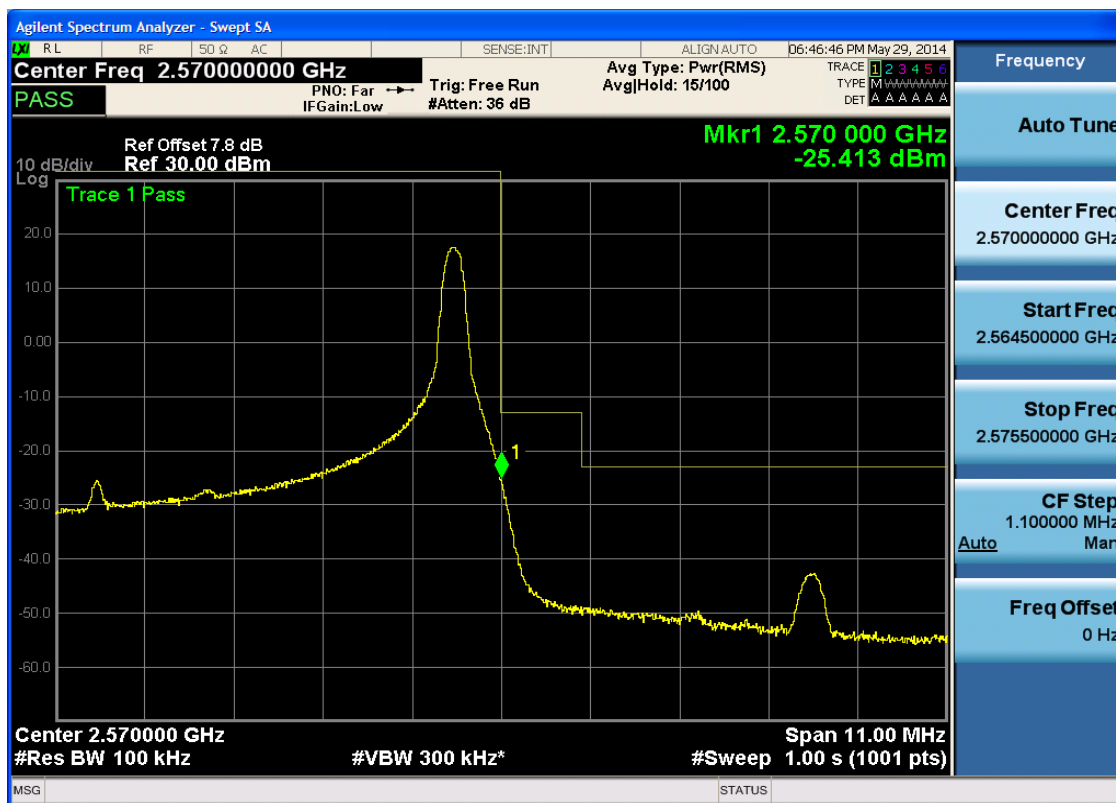
5.3.3.2.2 Test Channel = HCH

5.3.3.2.2.1 Test RB = RB1#0





5.3.3.2.2.2 Test RB = RB1#49





5.3.3.2.2.3 Test RB = RB25#13





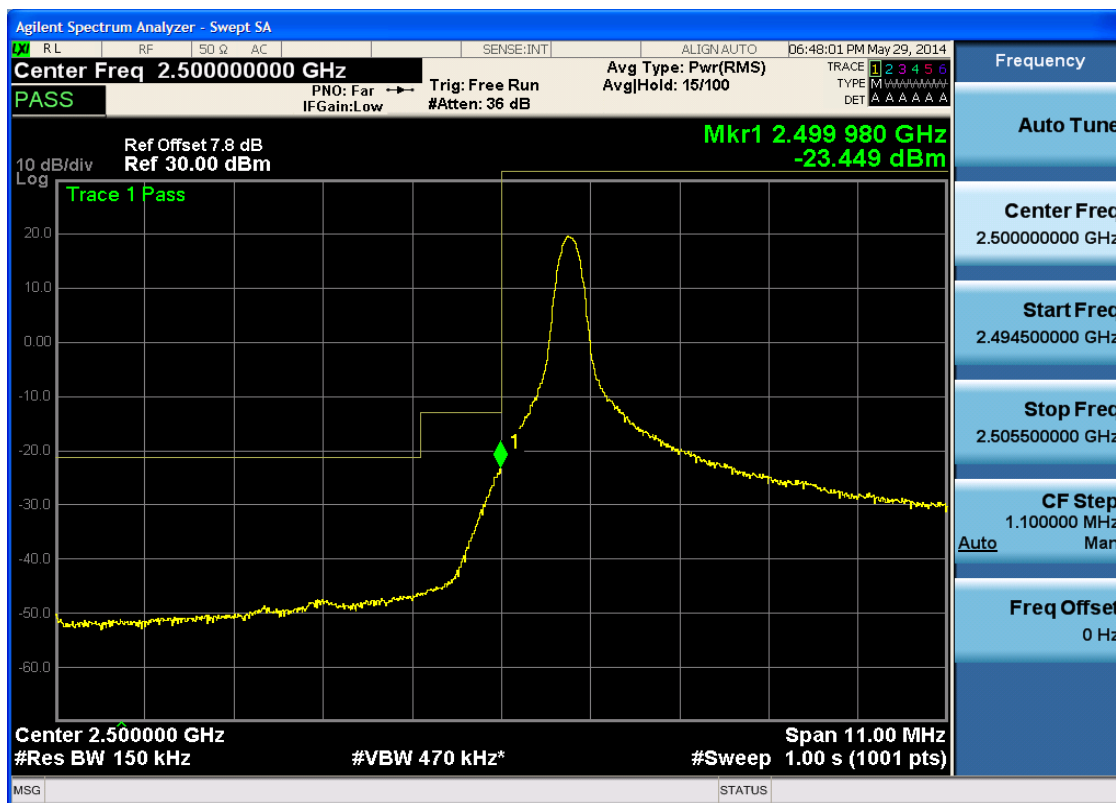
5.3.3.2.2.4 Test RB = RB50#0



5.3.3.2.3 Test Bandwidth = 15

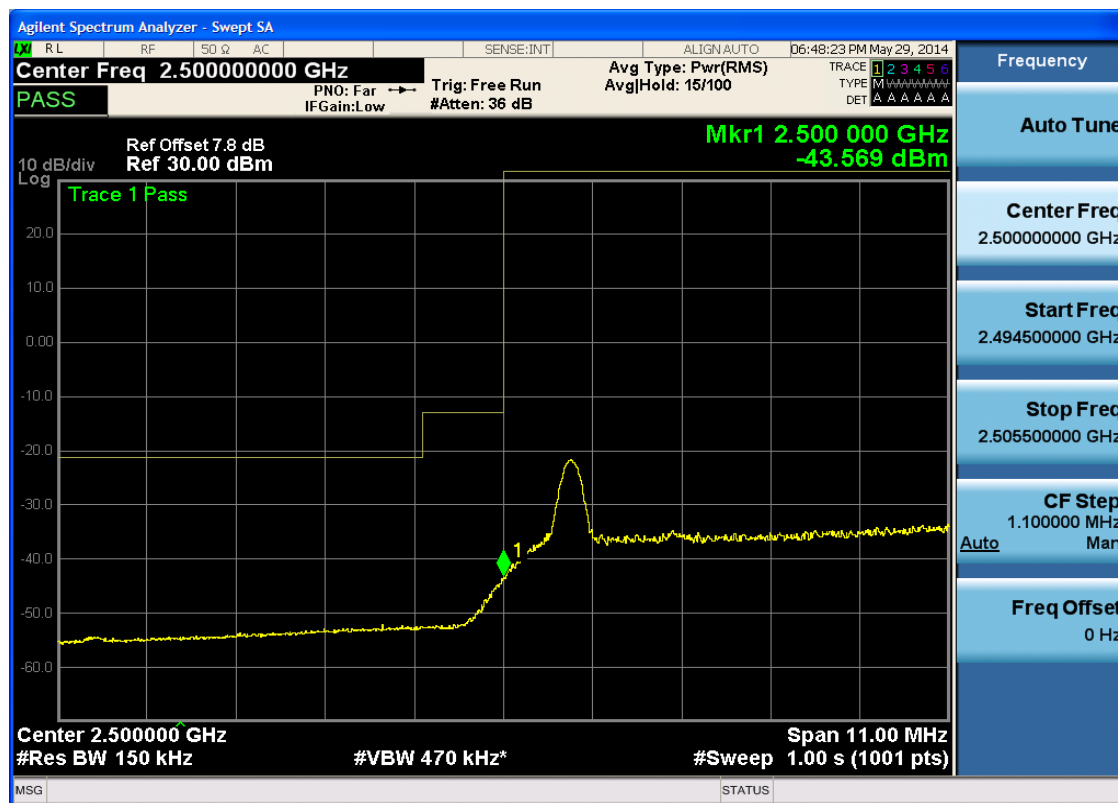
5.3.3.2.3.1 Test Channel = LCH

5.3.3.2.3.1.1 Test RB = RB1#0





5.3.3.2.3.1.2 Test RB = RB1#74





Agilent Spectrum Analyzer - Swept SA

Center Freq 2.50000000 GHz

PASS

Ref Offset 7.8 dB
Ref 30.00 dBm

Mkr1 2.499 930 GHz
-30.195 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.500000 GHz
#Res BW 150 kHz
#VBW 470 kHz*

Span 11.00 MHz
#Sweep 1.00 s (1001 pts)

Frequency

Auto Tune

Center Freq
2.500000000 GHz

Start Freq
2.494500000 GHz

Stop Freq
2.505500000 GHz

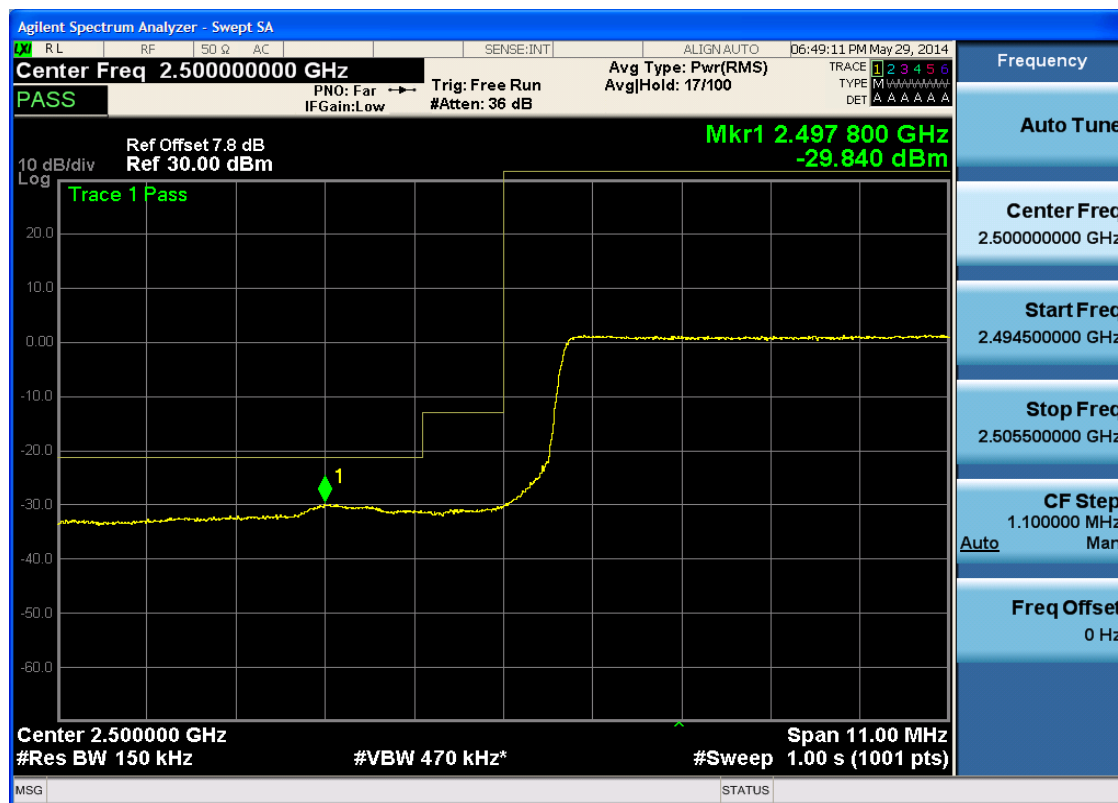
CF Step
1.100000 MHz
Man

Auto

Freq Offset
0 Hz



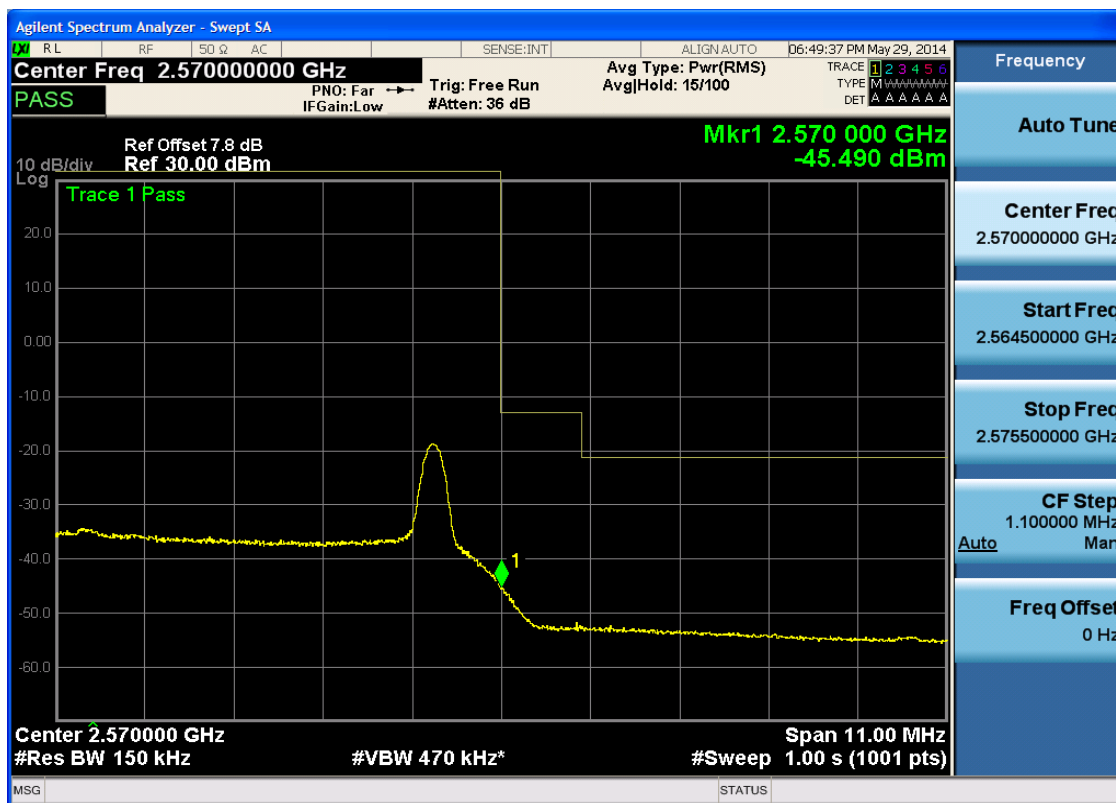
5.3.3.2.3.1.4 Test RB = RB75#0





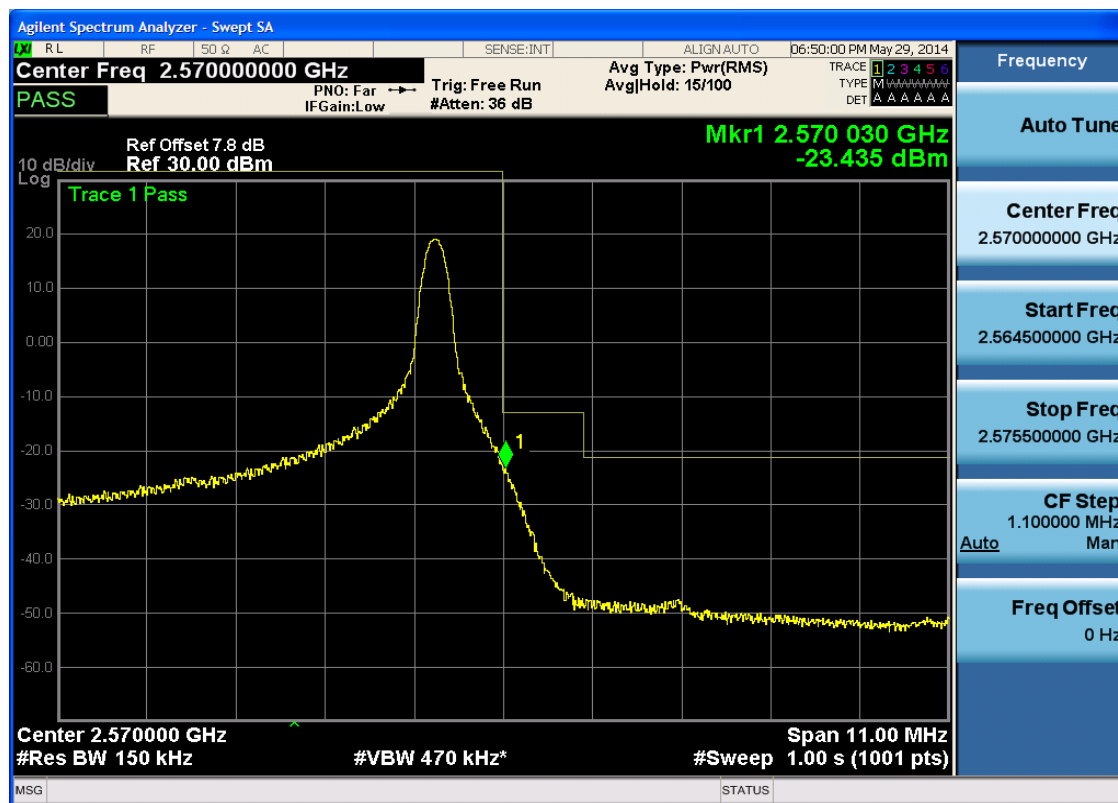
5.3.3.2.3.2 Test Channel = HCH

5.3.3.2.3.2.1 Test RB = RB1#0



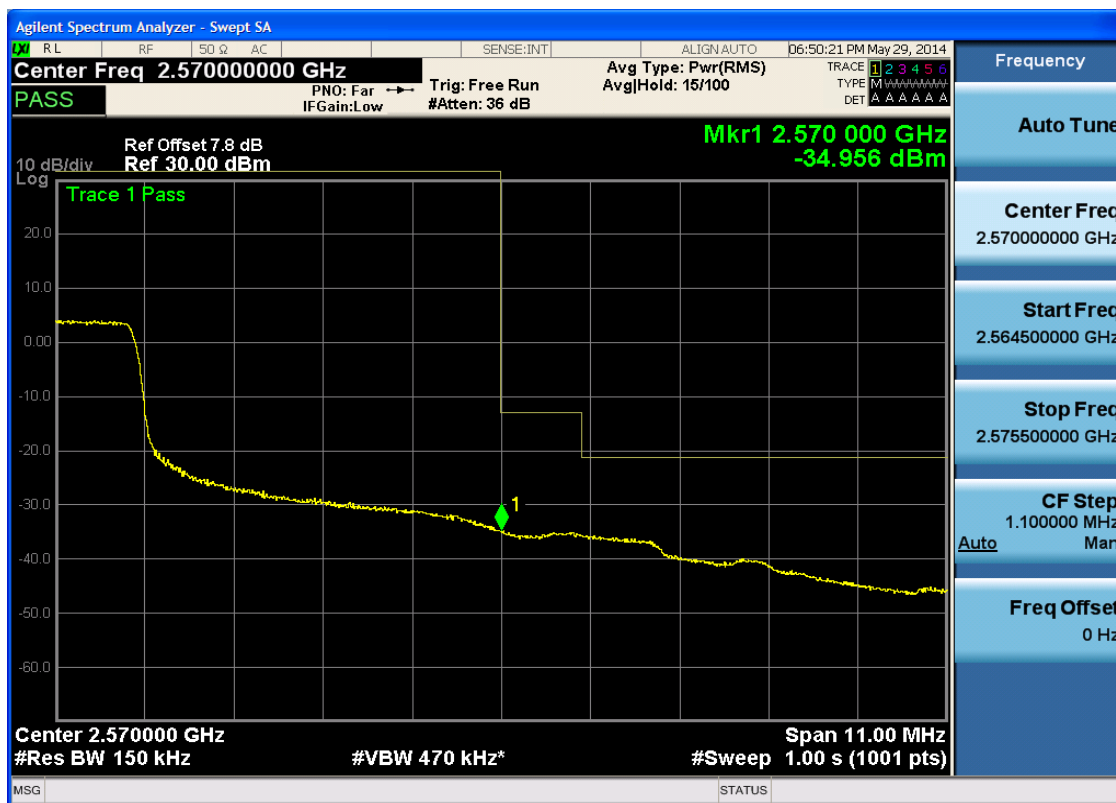


5.3.3.2.3.2.2 Test RB = RB1#74



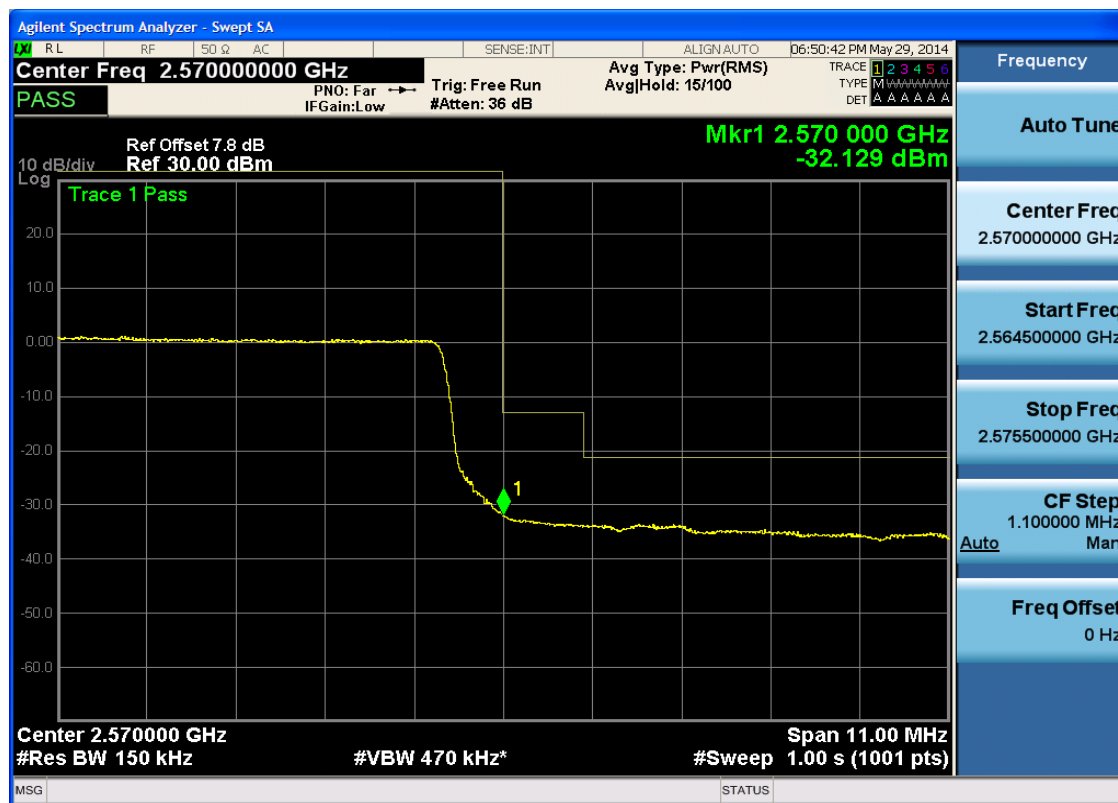


5.3.3.2.3.3 Test RB = RB36#18





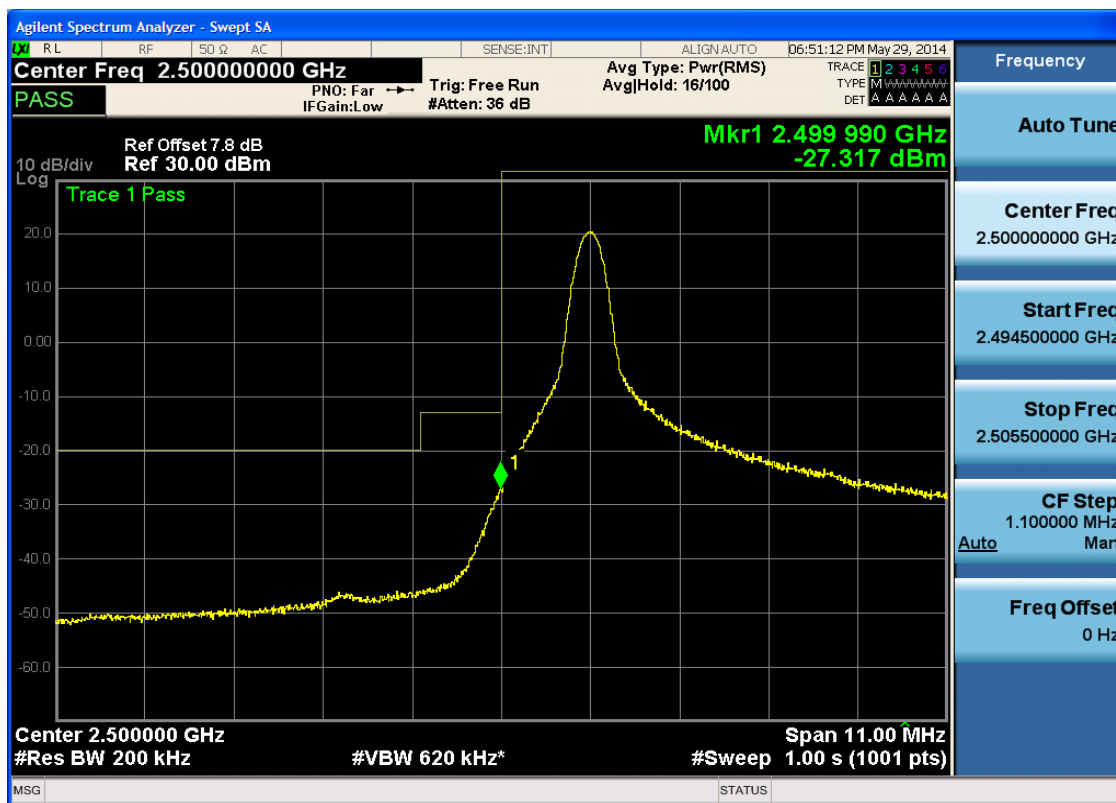
5.3.3.2.3.2.4 Test RB = RB75#0



5.3.3.2.4 Test Bandwidth = 20

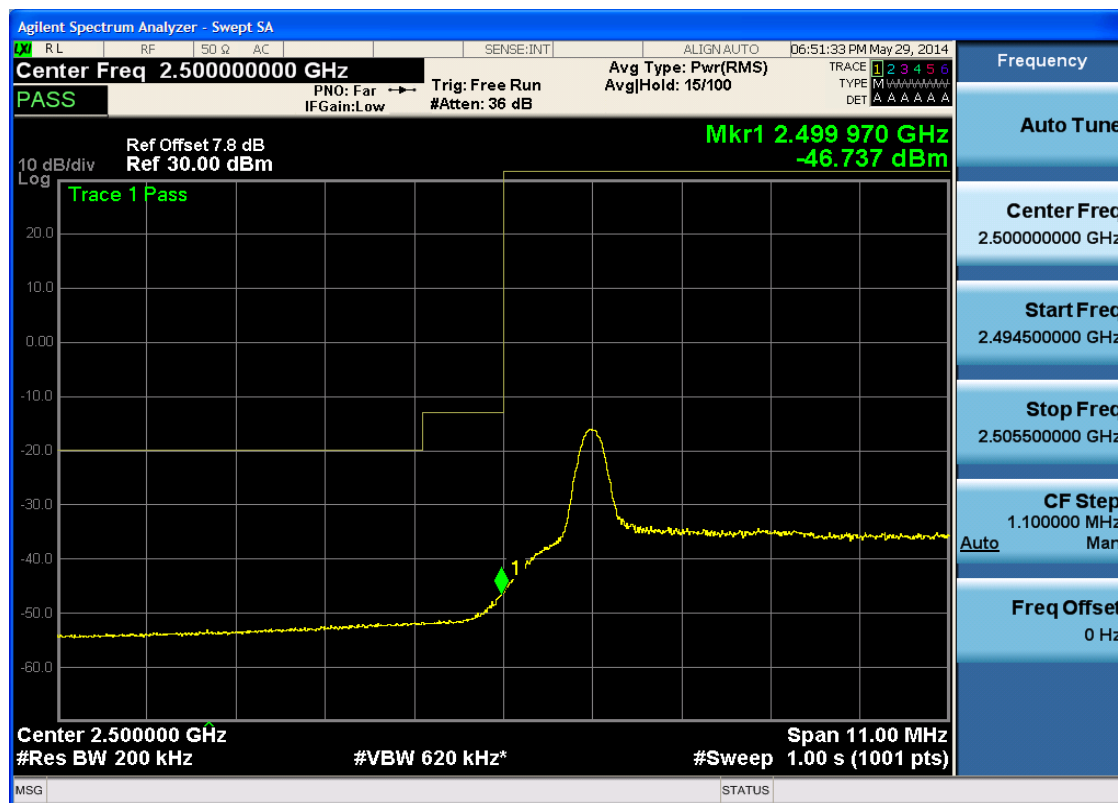
5.3.3.2.4.1 Test Channel = LCH

5.3.3.2.4.1.1 Test RB = RB1#0



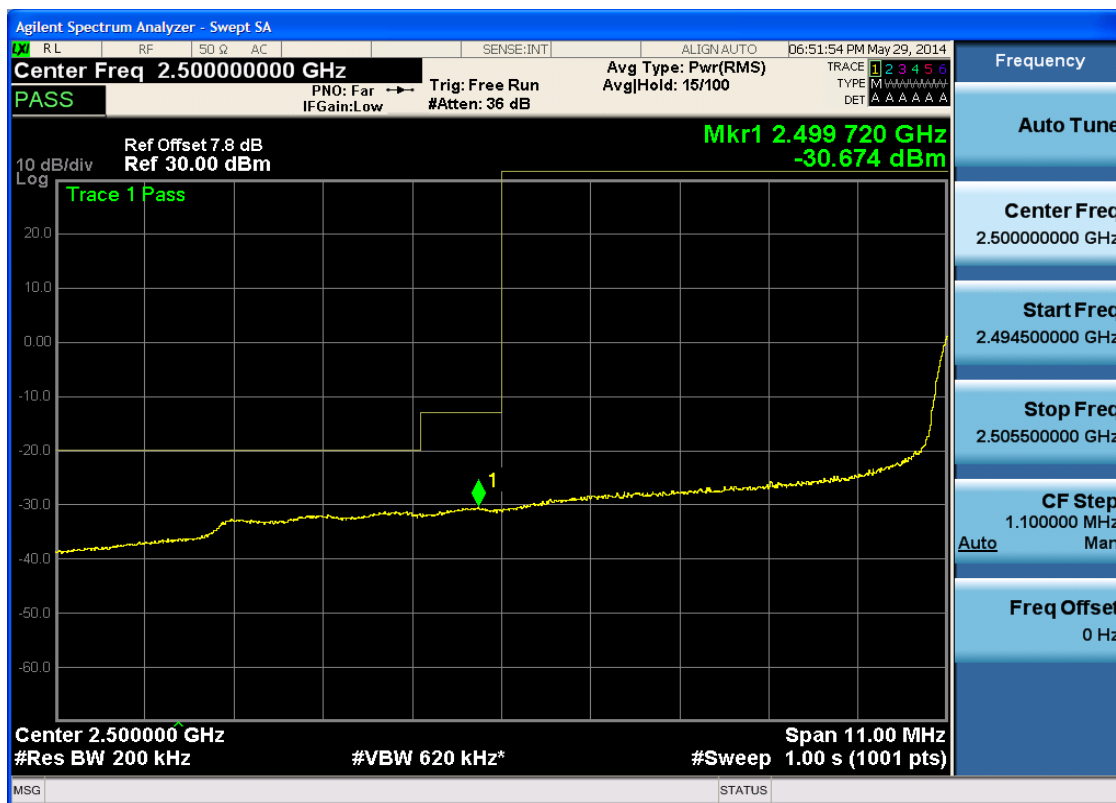


5.3.3.2.4.1.2 Test RB = RB1#99



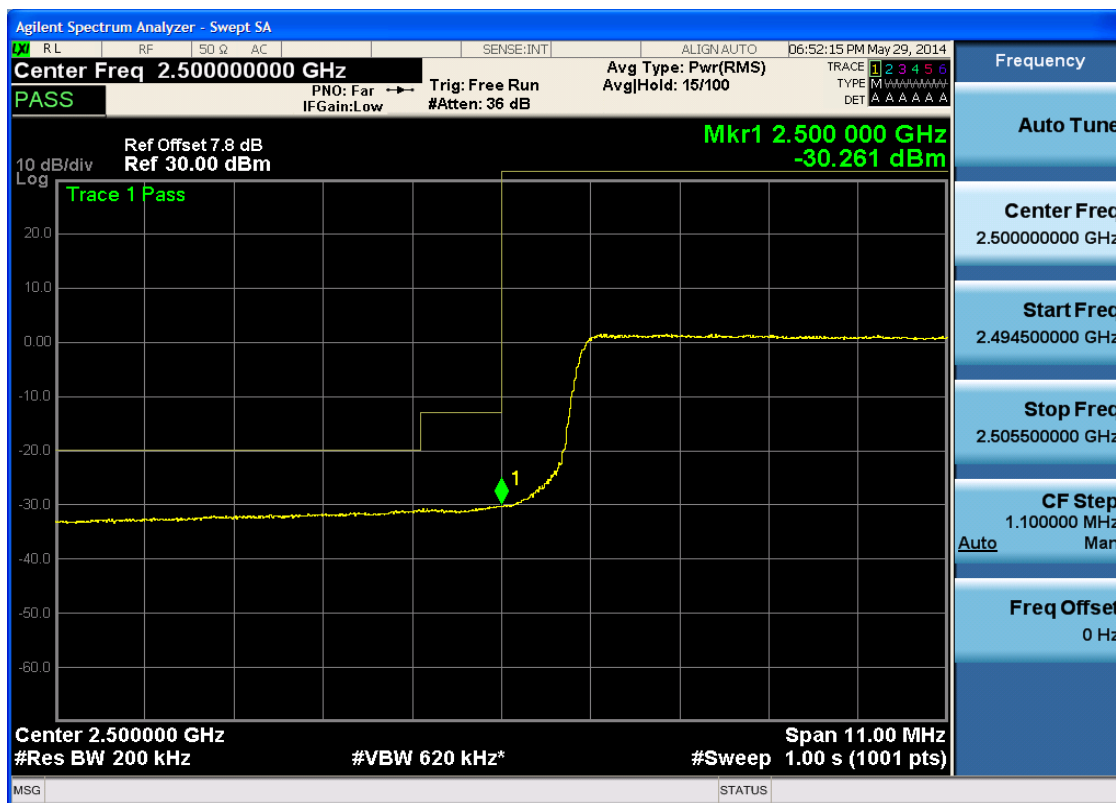


5.3.3.2.4.1.3 Test RB = RB50#25





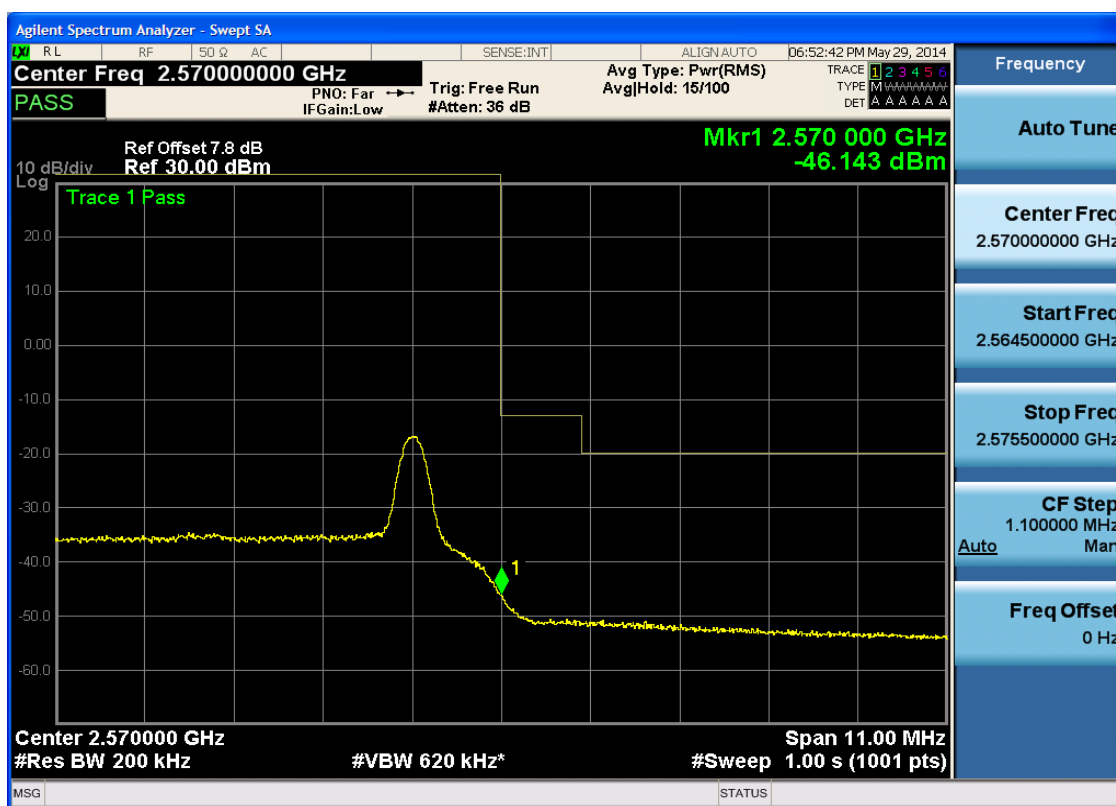
5.3.3.2.4.1.4 Test RB = RB100#0





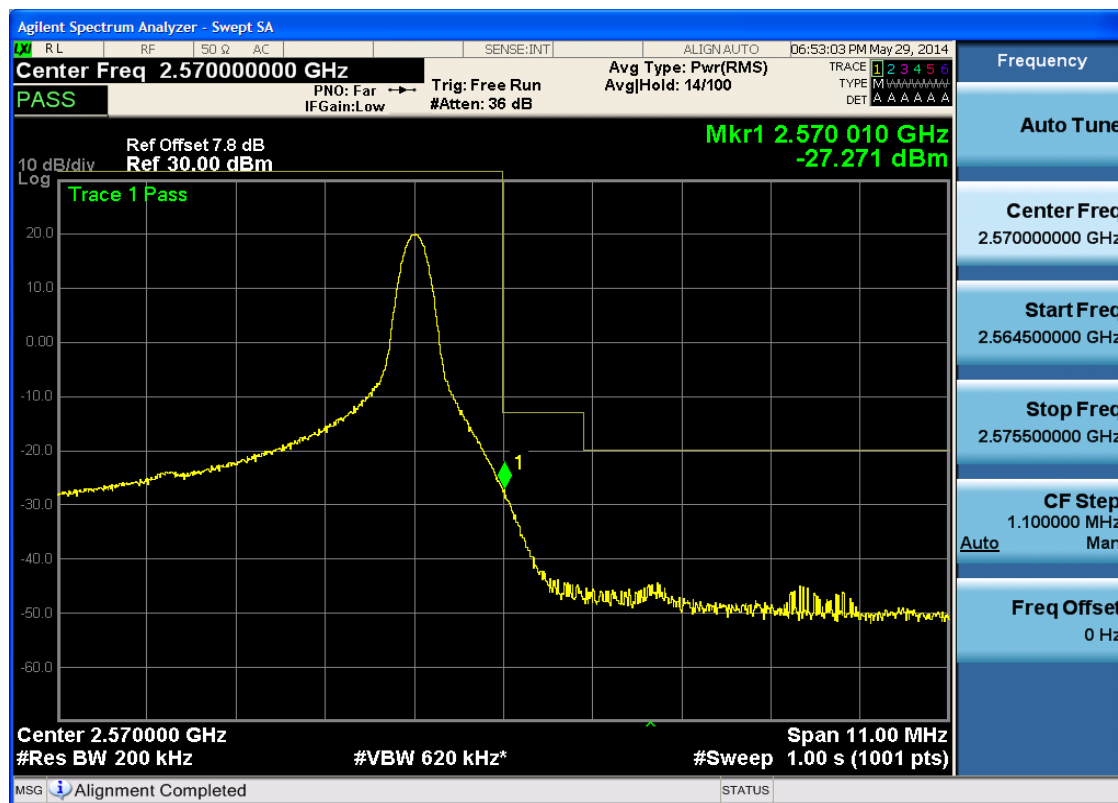
5.3.3.2.4.2 Test Channel = HCH

5.3.3.2.4.2.1 Test RB = RB1#0





5.3.3.2.4.2.2 Test RB = RB1#99



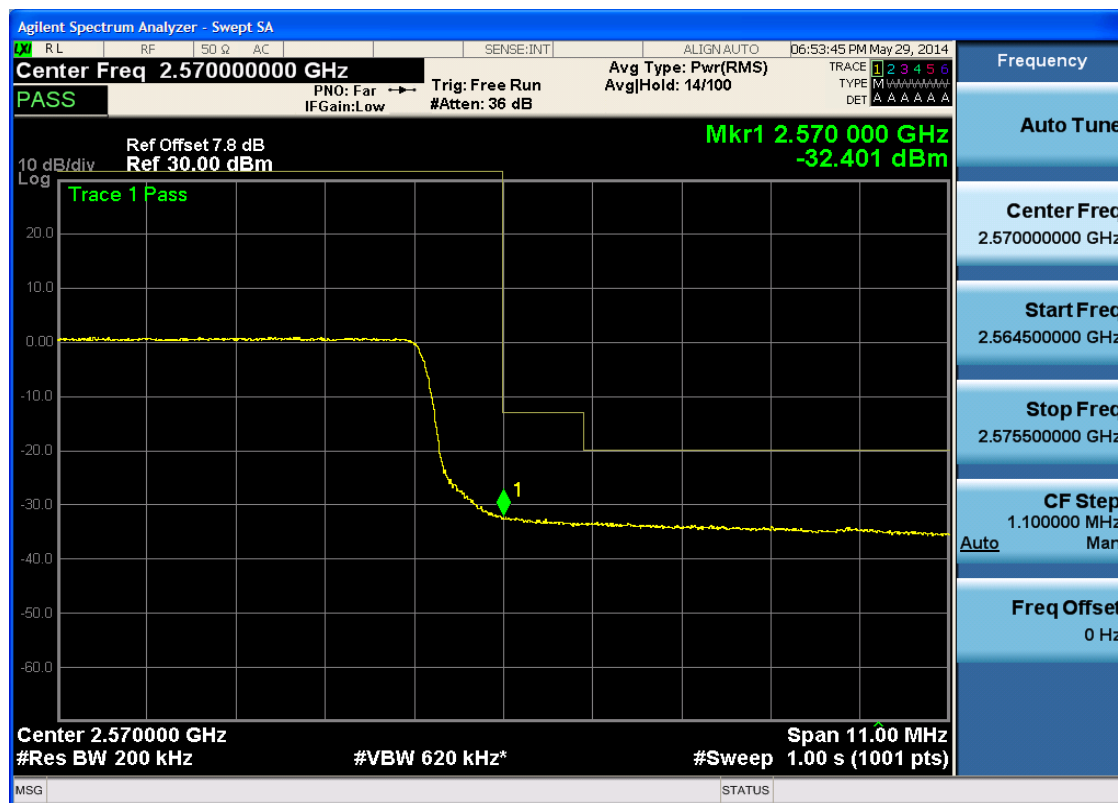


5.3.3.2.4.2.3 Test RB = RB50#25



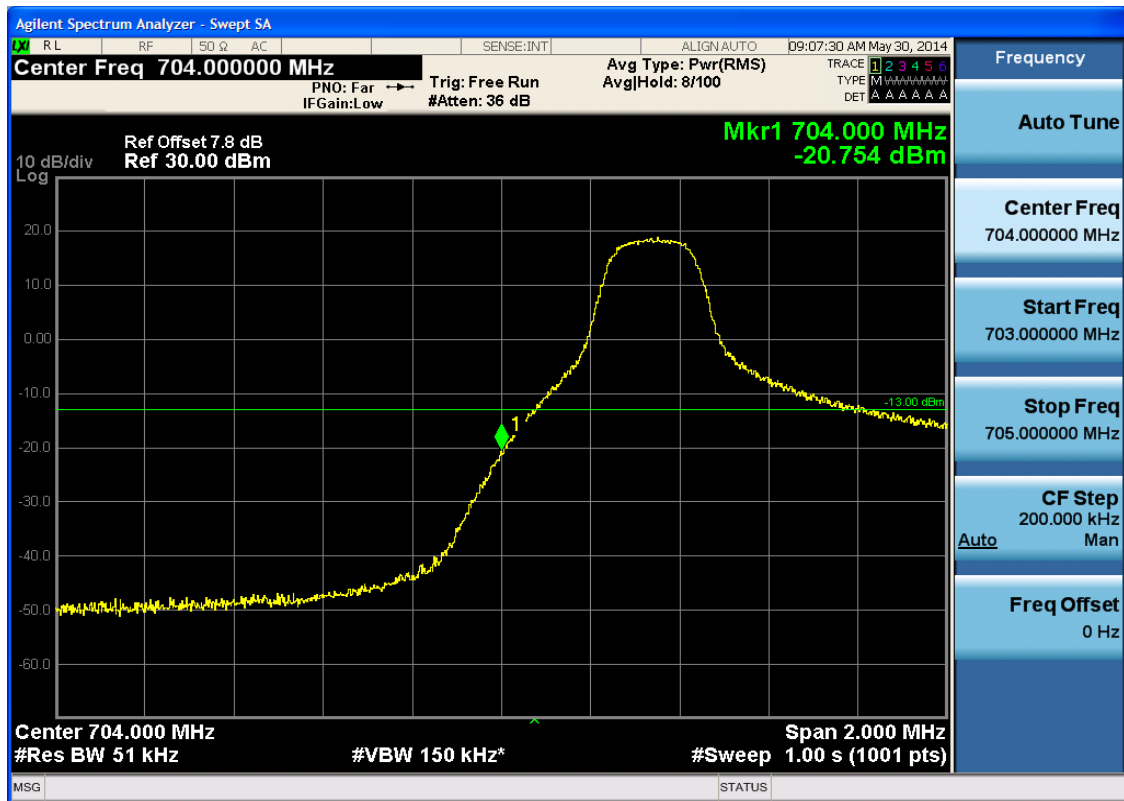


5.3.3.2.4.2.4 Test RB = RB100#0



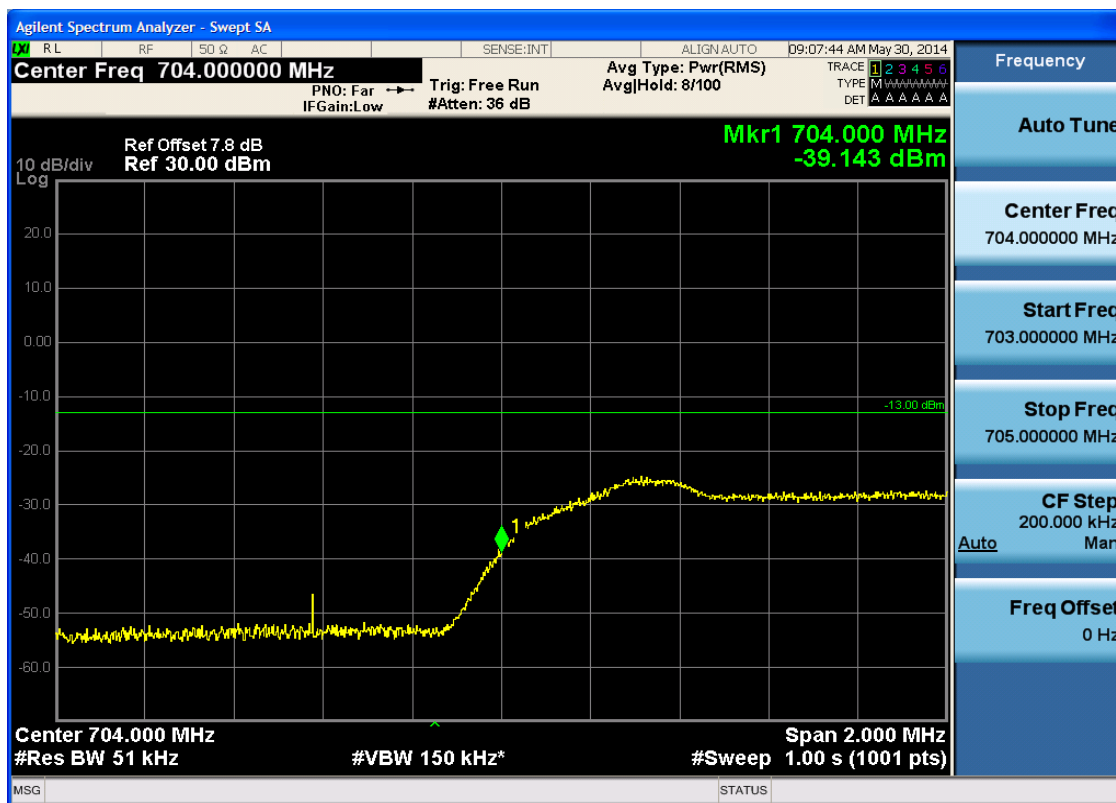


5.3.4.1.1.1.1 Test RB = RB1#0



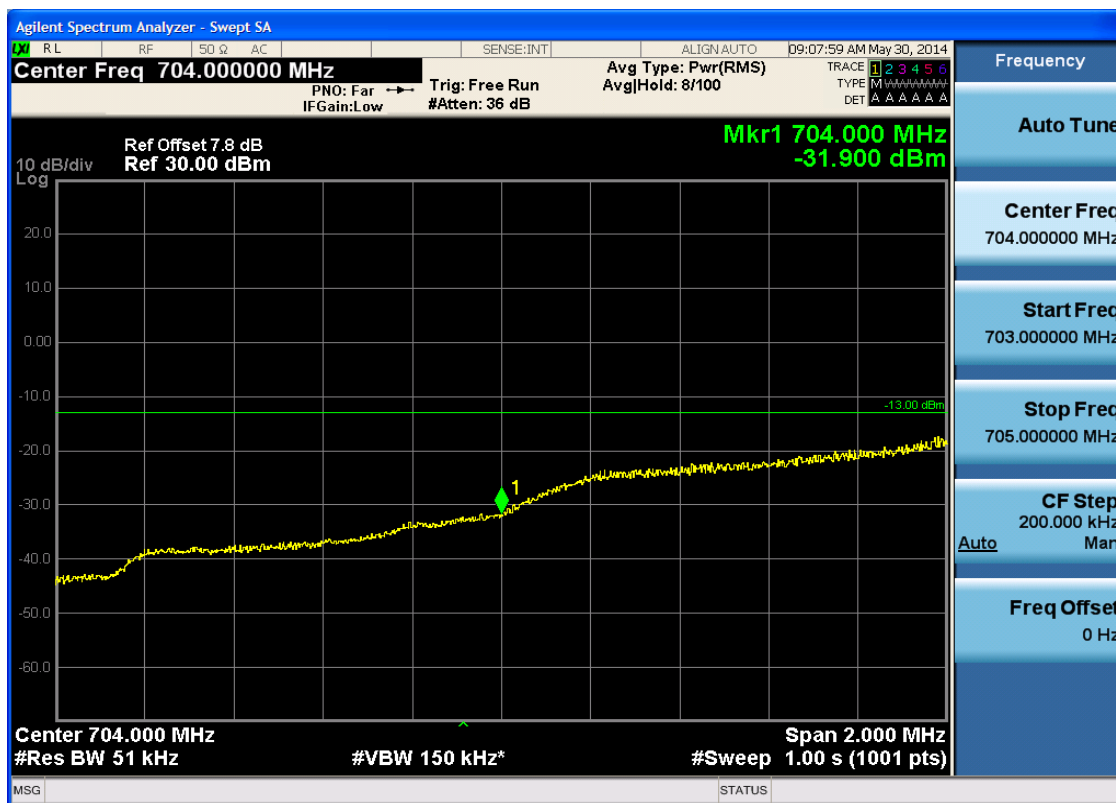


5.3.4.1.1.2 Test RB = RB1#24



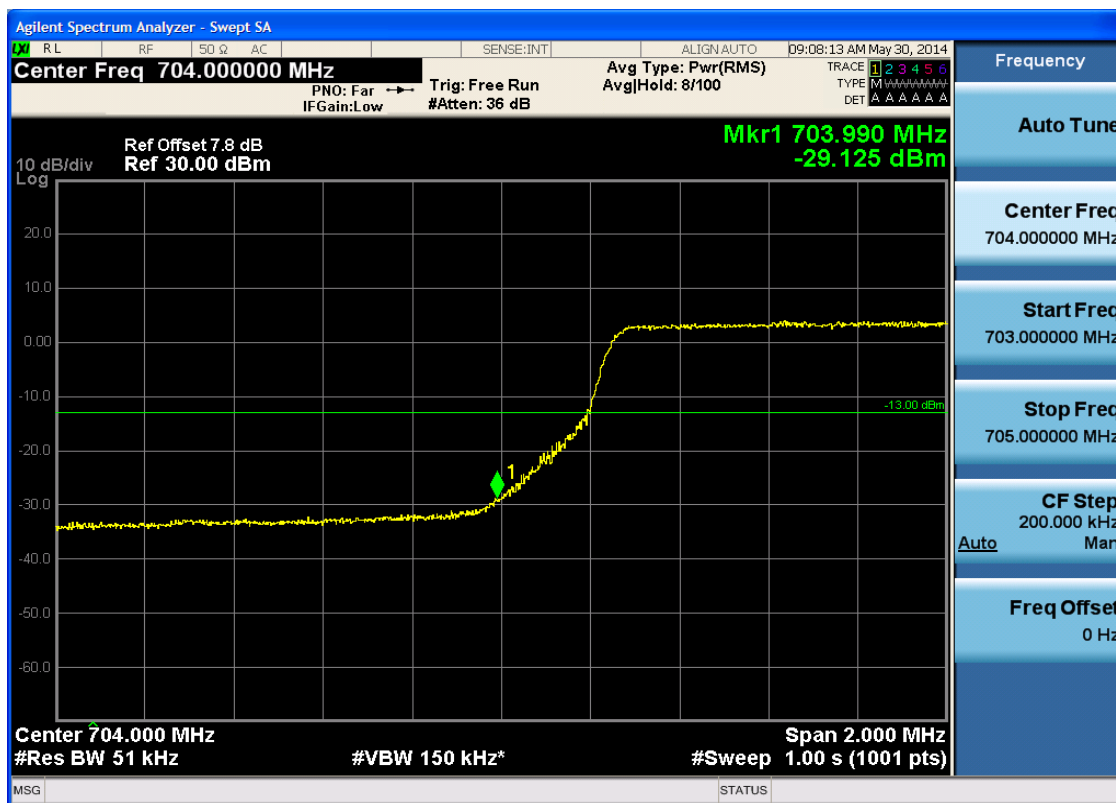


5.3.4.1.1.3 Test RB = RB12#6





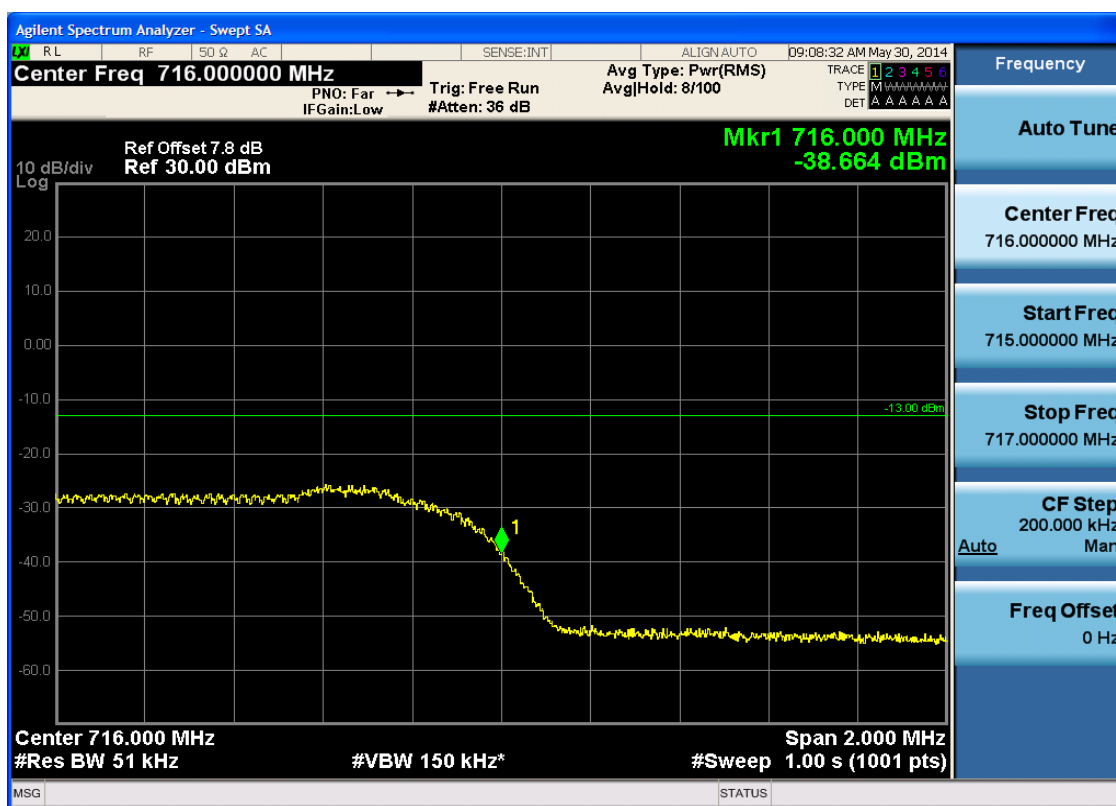
5.3.4.1.1.1.4 Test RB = RB25#0





5.3.4.1.1.2 Test Channel = HCH

5.3.4.1.1.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

Center Freq 716.000000 MHz
PNO: Far → Trig: Free Run
IFGain: Low #Atten: 36 dB

Avg Type: Pwr(RMS)
Ave/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

Ref Offset 7.8 dB
Ref 30.00 dBm

Mkr1 716.000 MHz
-19.987 dBm

10 dB/div
Log

Center Freq 716.000 MHz
#Res BW 51 kHz
#VBW 150 kHz*

Span 2.000 MHz
#Sweep 1.00 s (1001 pts)

MSG STATUS



5.3.4.1.1.2.3 Test RB = RB12#6





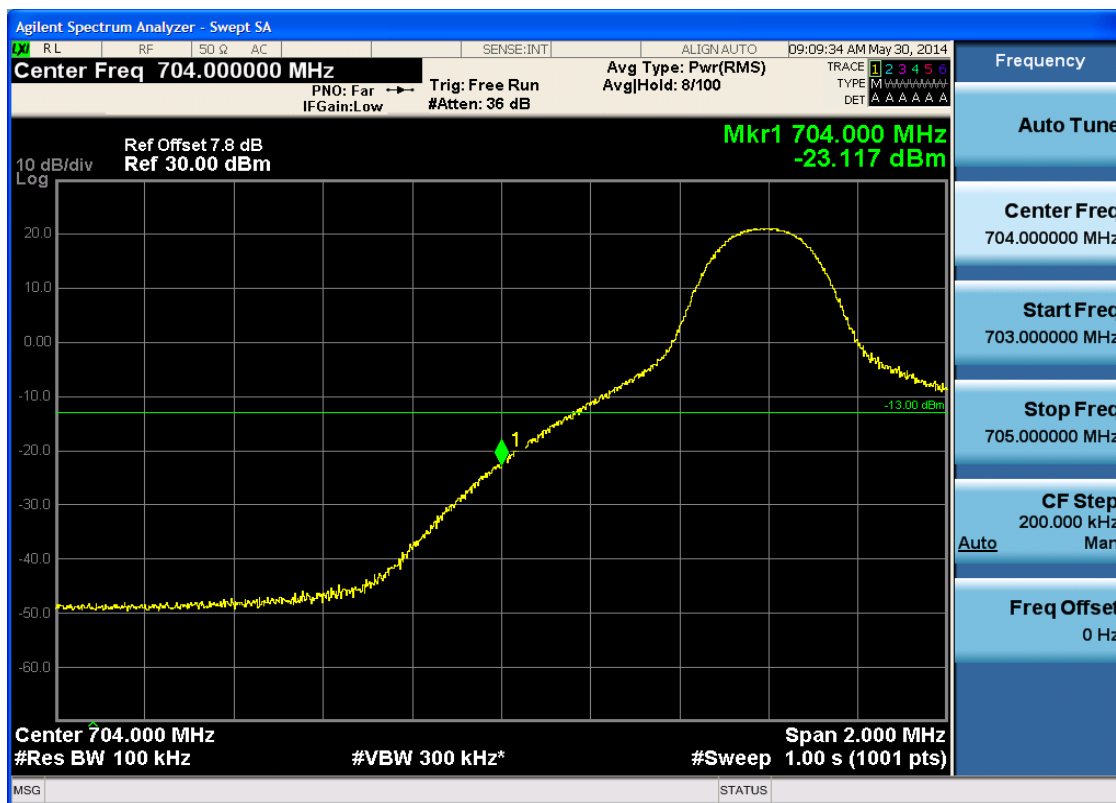
5.3.4.1.1.2.4 Test RB = RB25#0



5.3.4.1.2 Test Bandwidth = 10

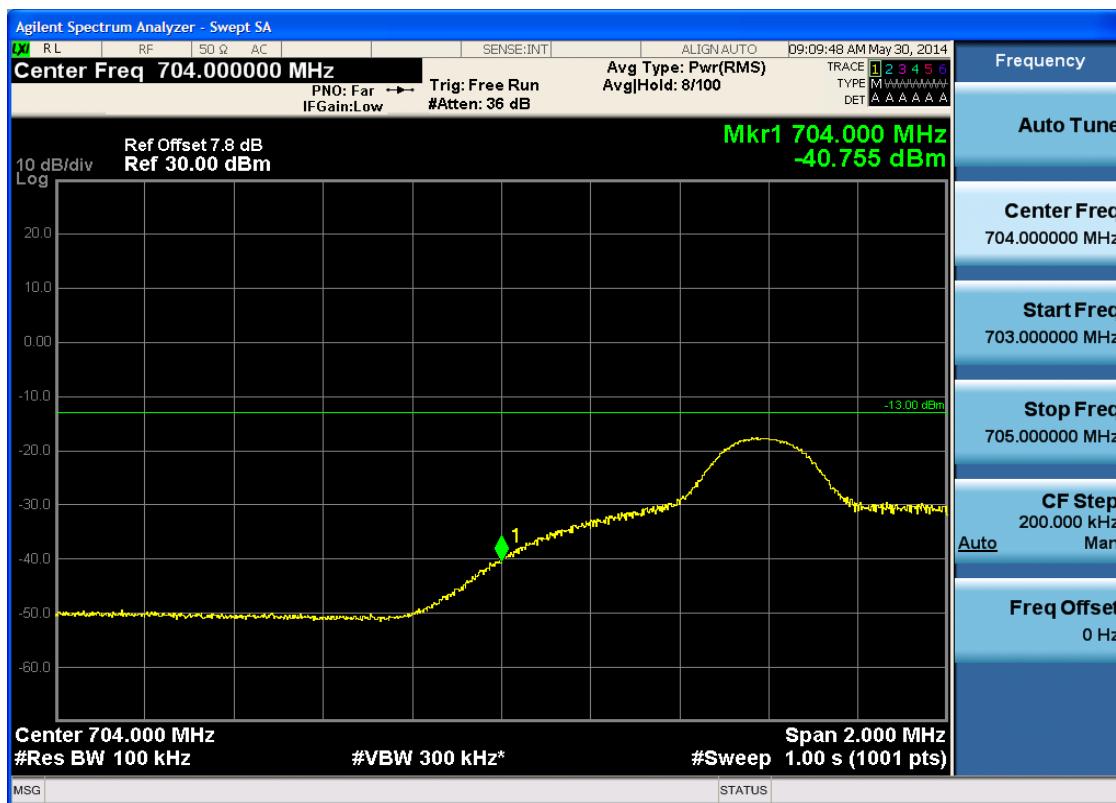
5.3.4.1.2.1 Test Channel = LCH

5.3.4.1.2.1.1 Test RB = RB1#0



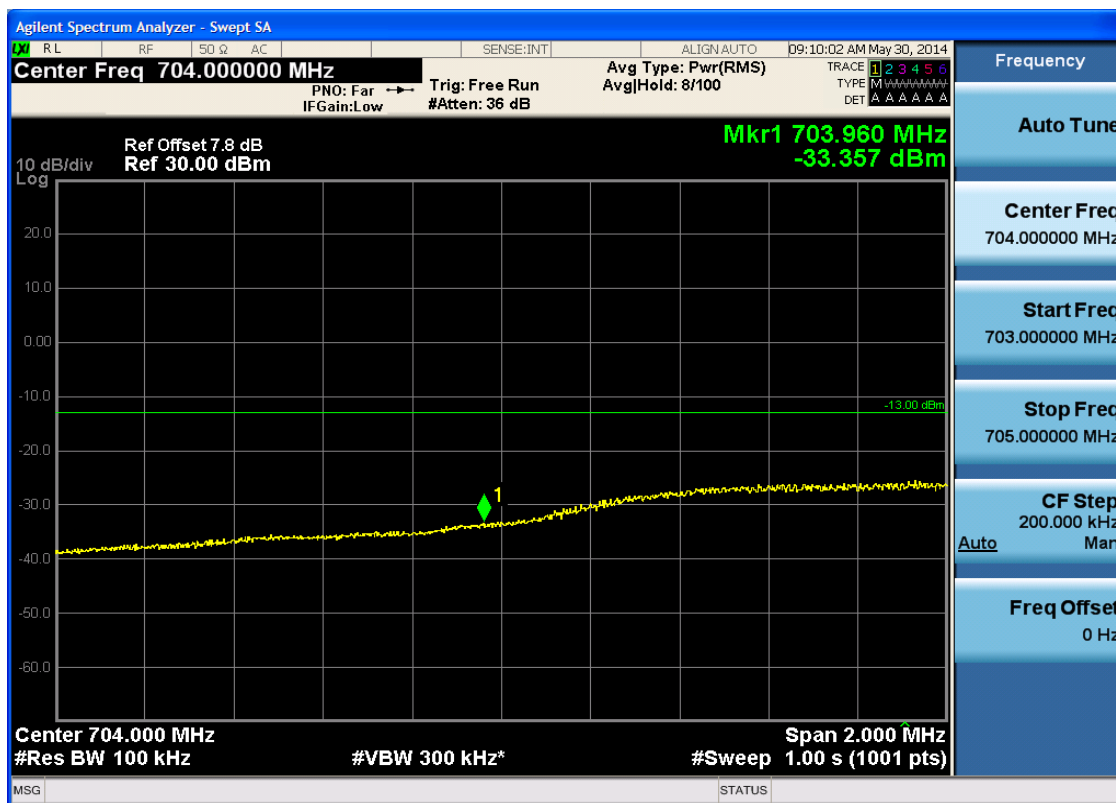


5.3.4.1.2.1.2 Test RB = RB1#49



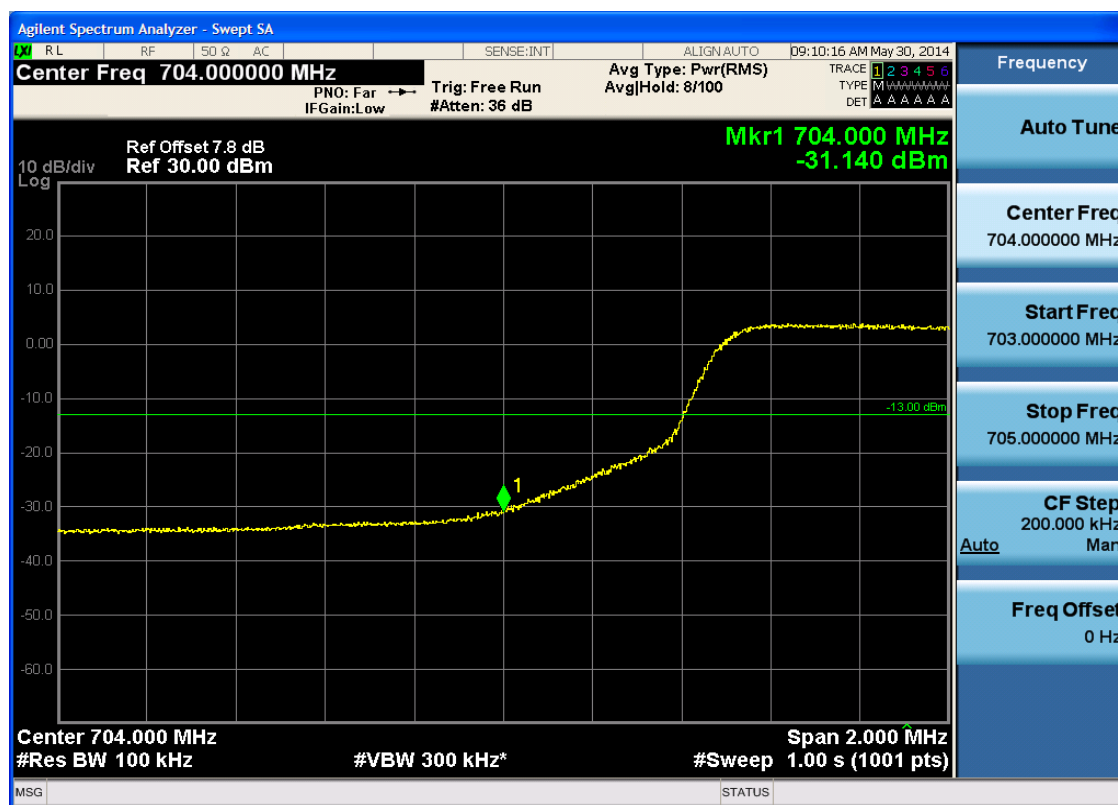


5.3.4.1.2.1.3 Test RB = RB25#13





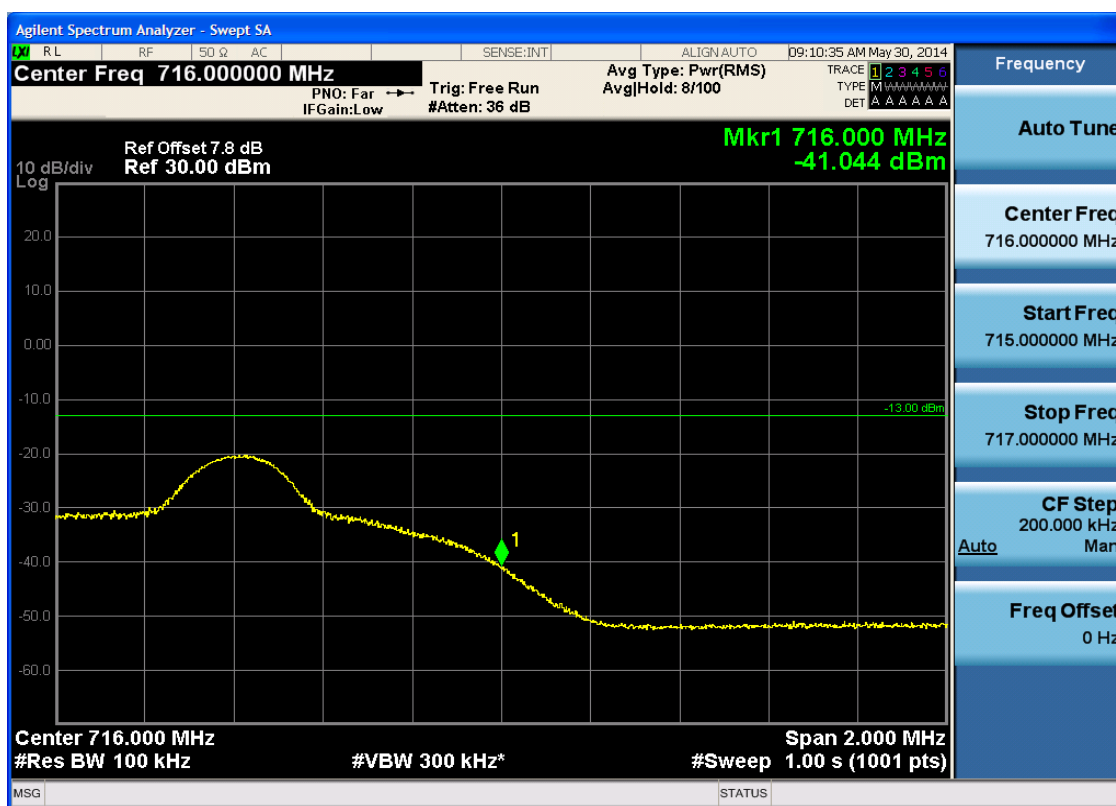
5.3.4.1.2.1.4 Test RB = RB50#0





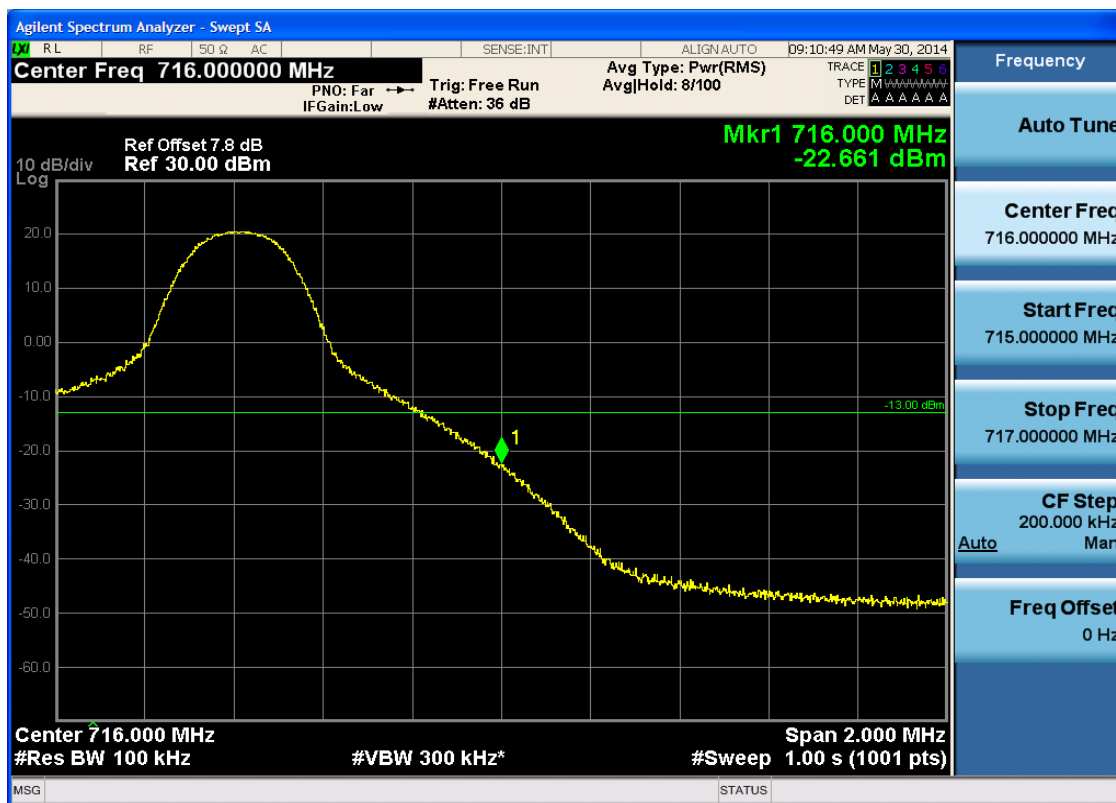
5.3.4.1.2.2 Test Channel = HCH

5.3.4.1.2.2.1 Test RB = RB1#0





5.3.4.1.2.2.2 Test RB = RB1#49



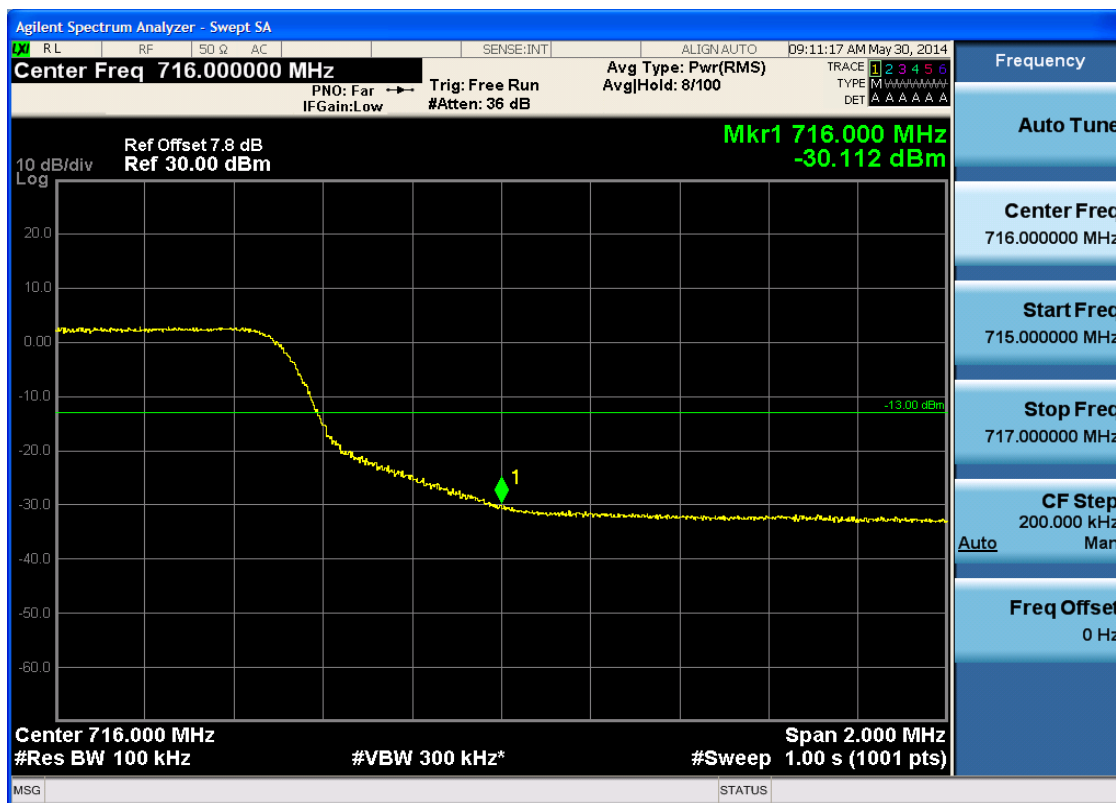


5.3.4.1.2.2.3 Test RB = RB25#13





5.3.4.1.2.2.4 Test RB = RB50#0

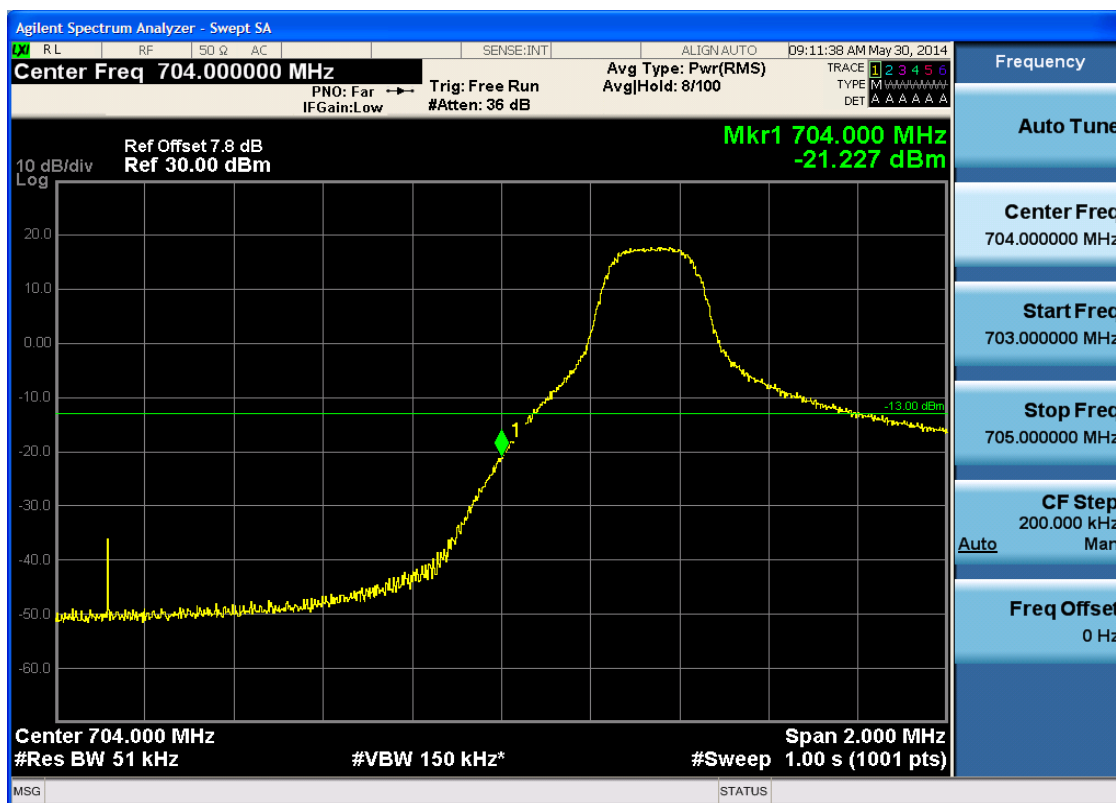


5.3.4.2 Test Mode = LTE/TM2

5.3.4.2.1 Test Bandwidth = 5

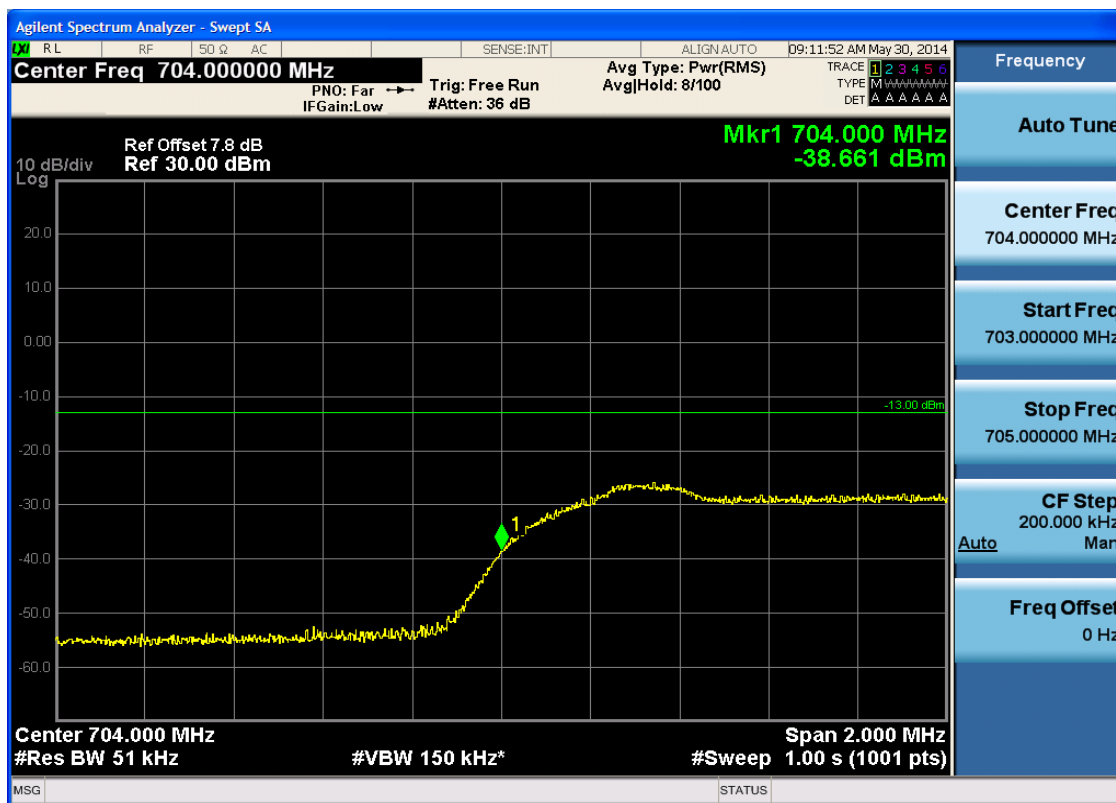
5.3.4.2.1.1 Test Channel = LCH

5.3.4.2.1.1.1 Test RB = RB1#0



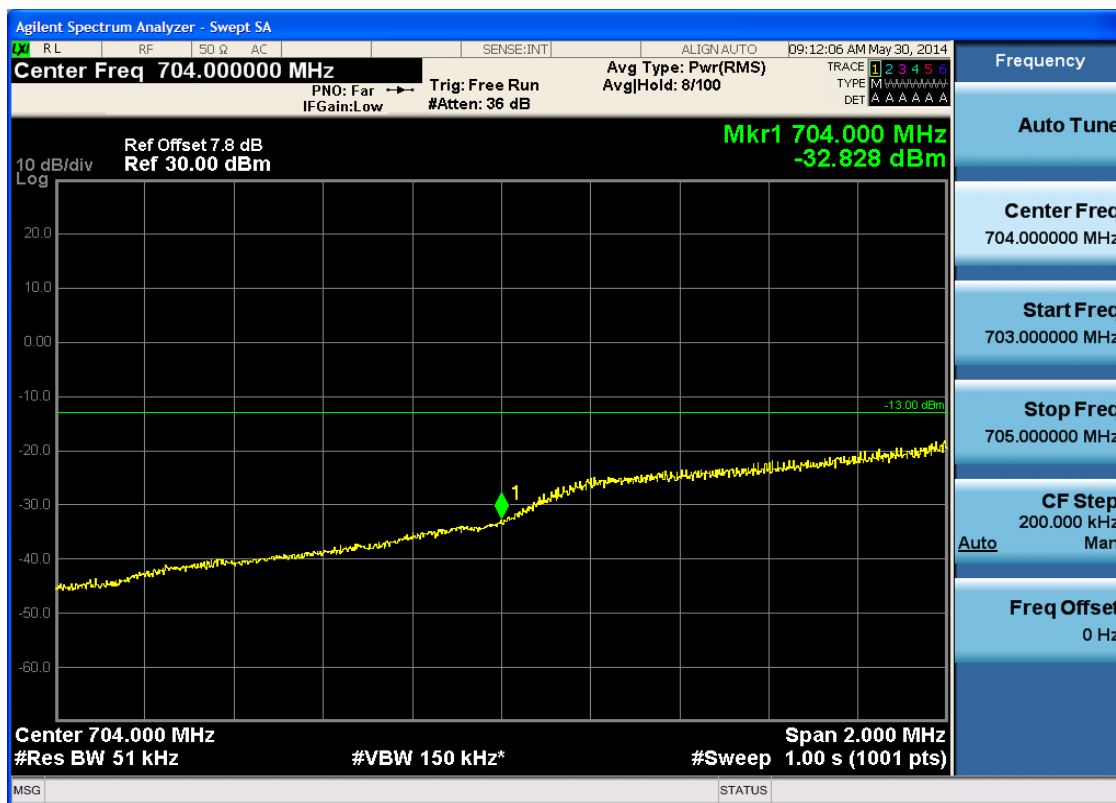


5.3.4.2.1.1.2 Test RB = RB1#24



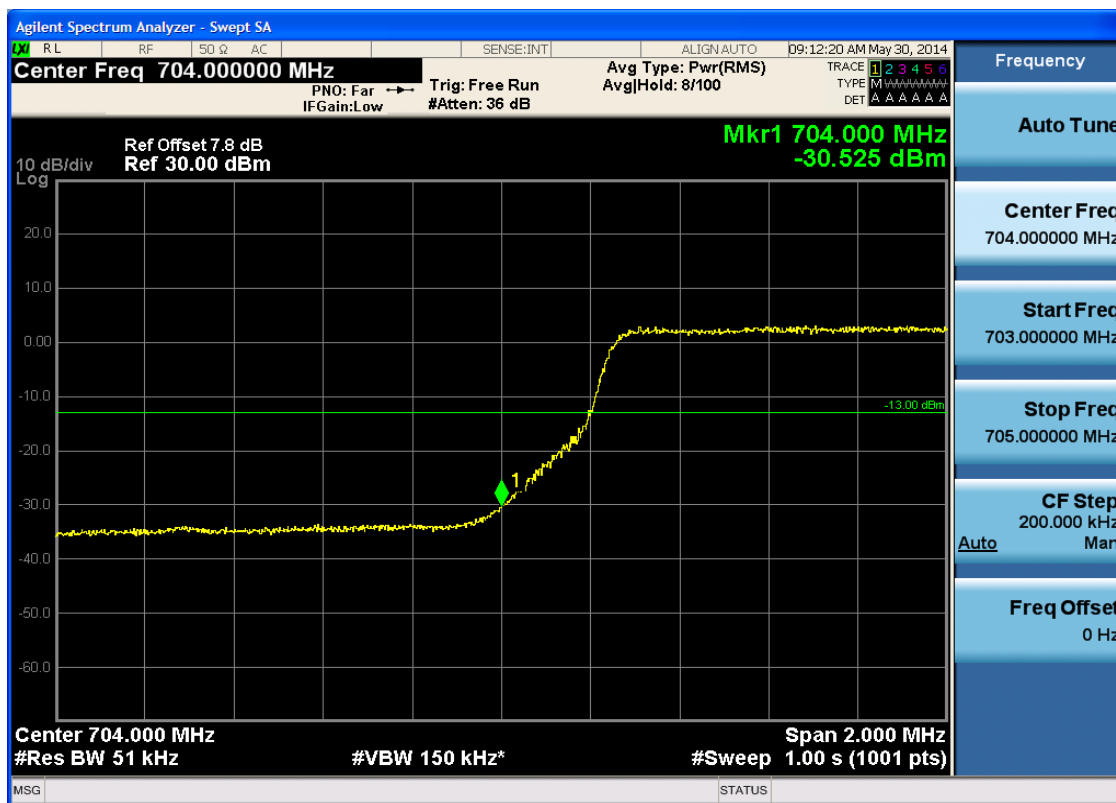


5.3.4.2.1.1.3 Test RB = RB12#6





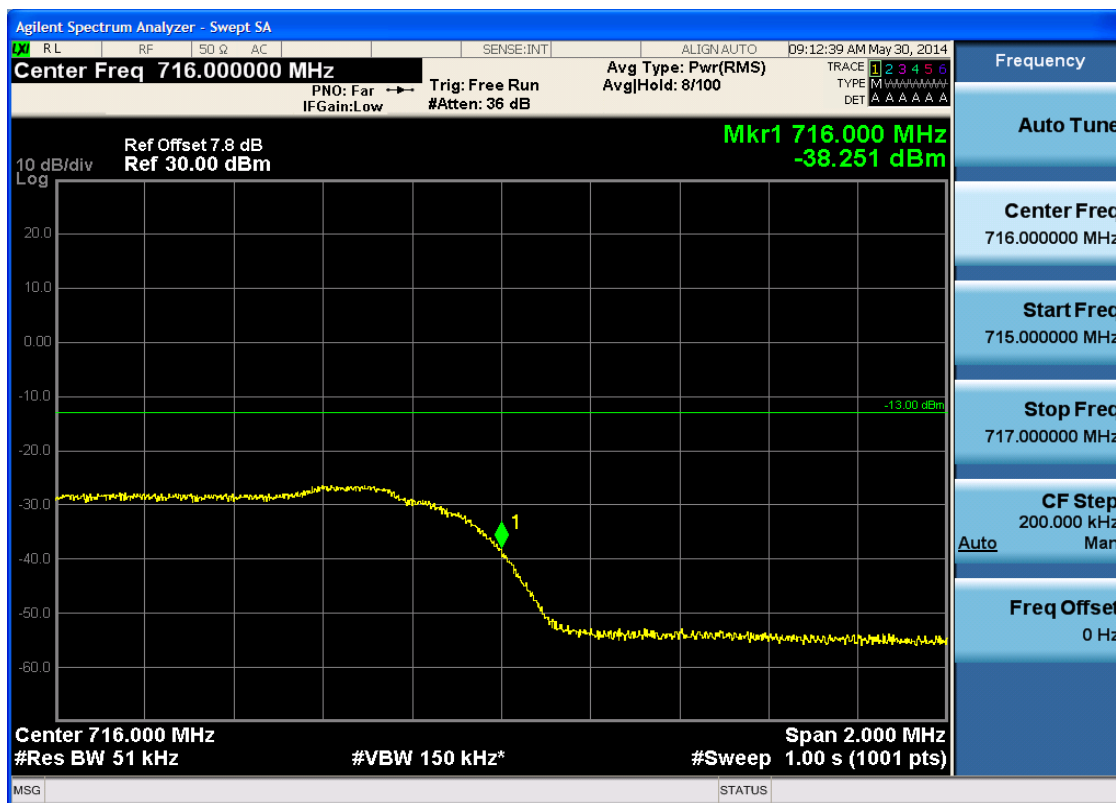
5.3.4.2.1.1.4 Test RB = RB25#0





5.3.4.2.1.2 Test Channel = HCH

5.3.4.2.1.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

Center Freq 716.000000 MHz

Ref Offset 7.8 dB
Ref 30.00 dBm

10 dB/div
Log

Mkr1 716.000 MHz
-21.871 dBm

Center Freq 716.000000 MHz

Start Freq 715.000000 MHz

Stop Freq 717.000000 MHz

CF Step 200.000 kHz
Man

Freq Offset 0 Hz

Center Freq 716.000 MHz
#Res BW 51 kHz
#VBW 150 kHz*

Span 2.000 MHz
#Sweep 1.00 s (1001 pts)

Marker	Freq (MHz)	Level (dBm)
1	716.000	-21.871



5.3.4.2.1.2.3 Test RB = RB12#6





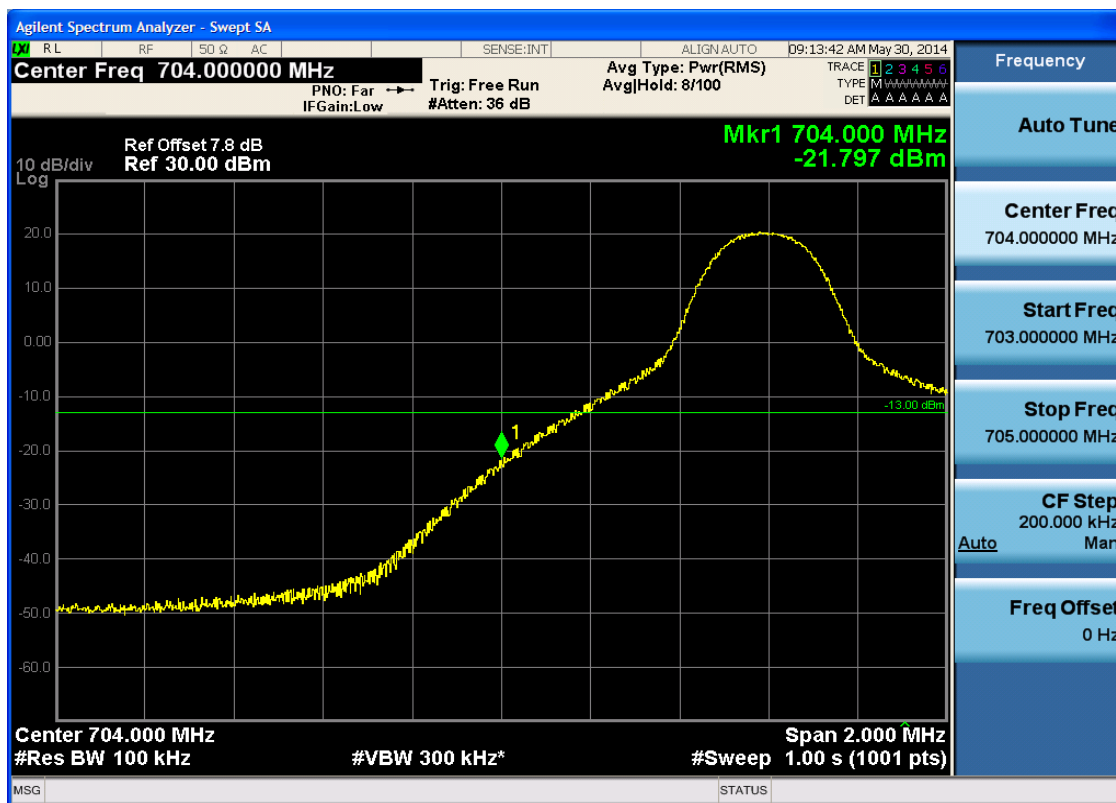
5.3.4.2.1.2.4 Test RB = RB25#0



5.3.4.2.2 Test Bandwidth = 10

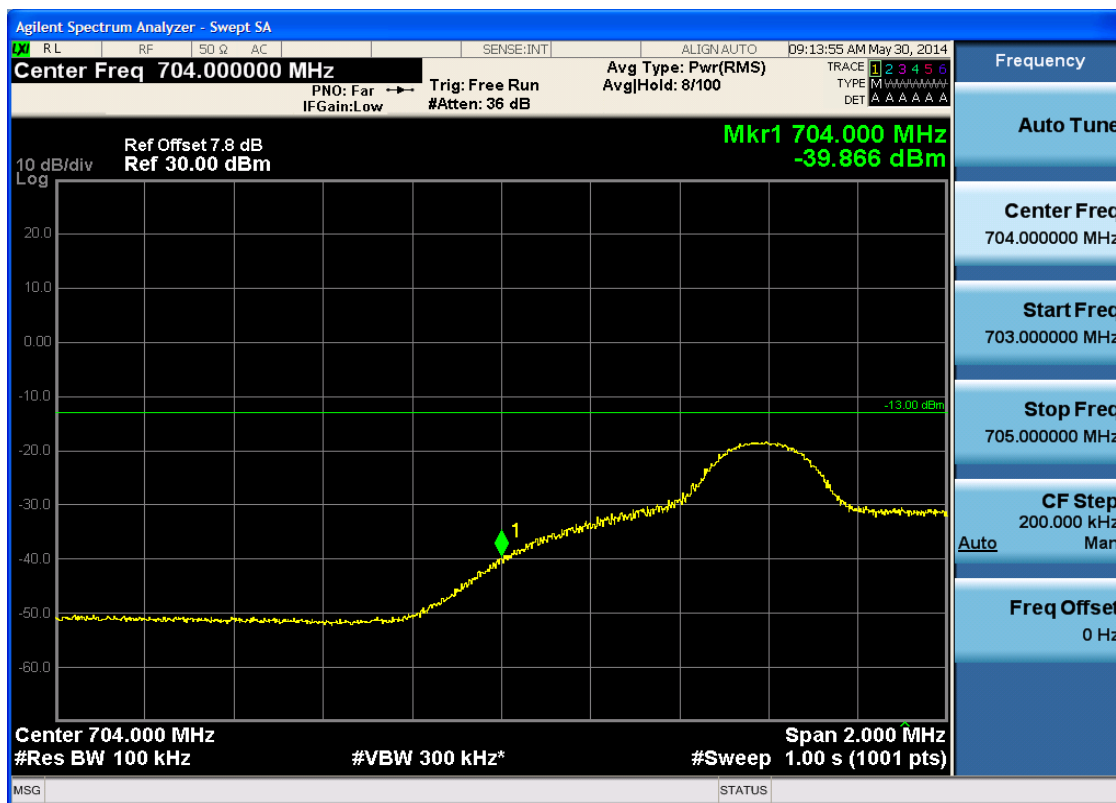
5.3.4.2.2.1 Test Channel = LCH

5.3.4.2.2.1.1 Test RB = RB1#0



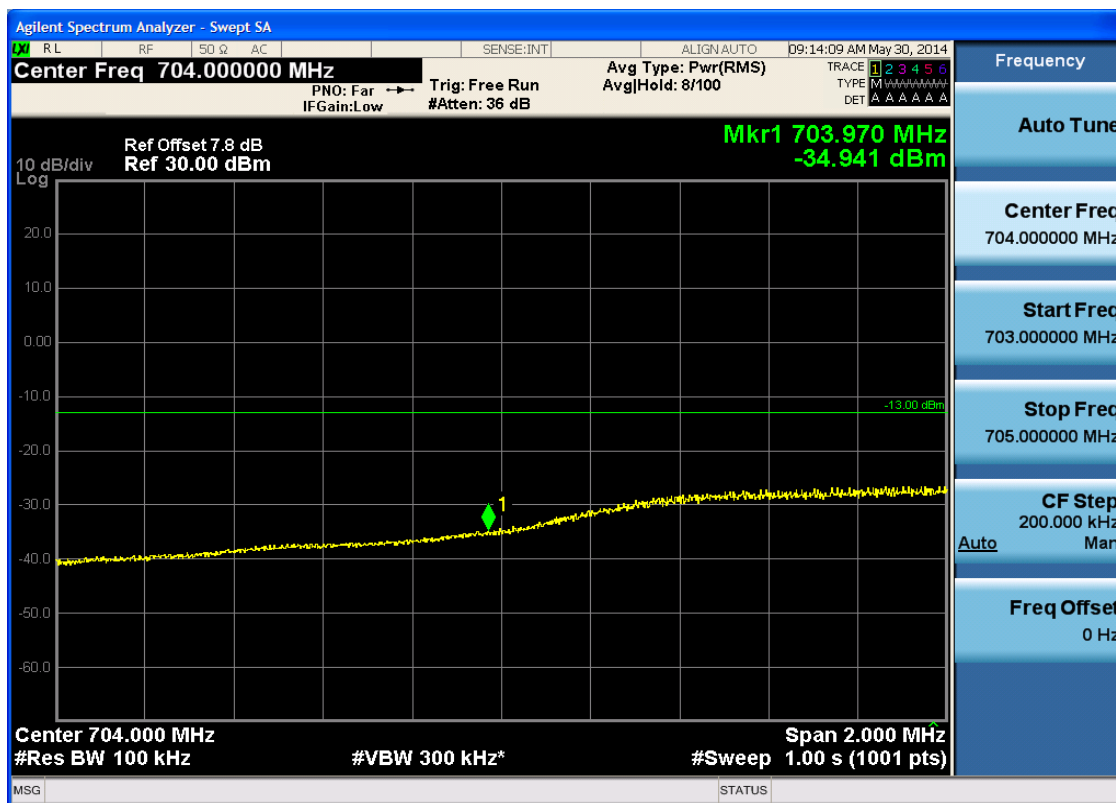


5.3.4.2.2.1.2 Test RB = RB1#49



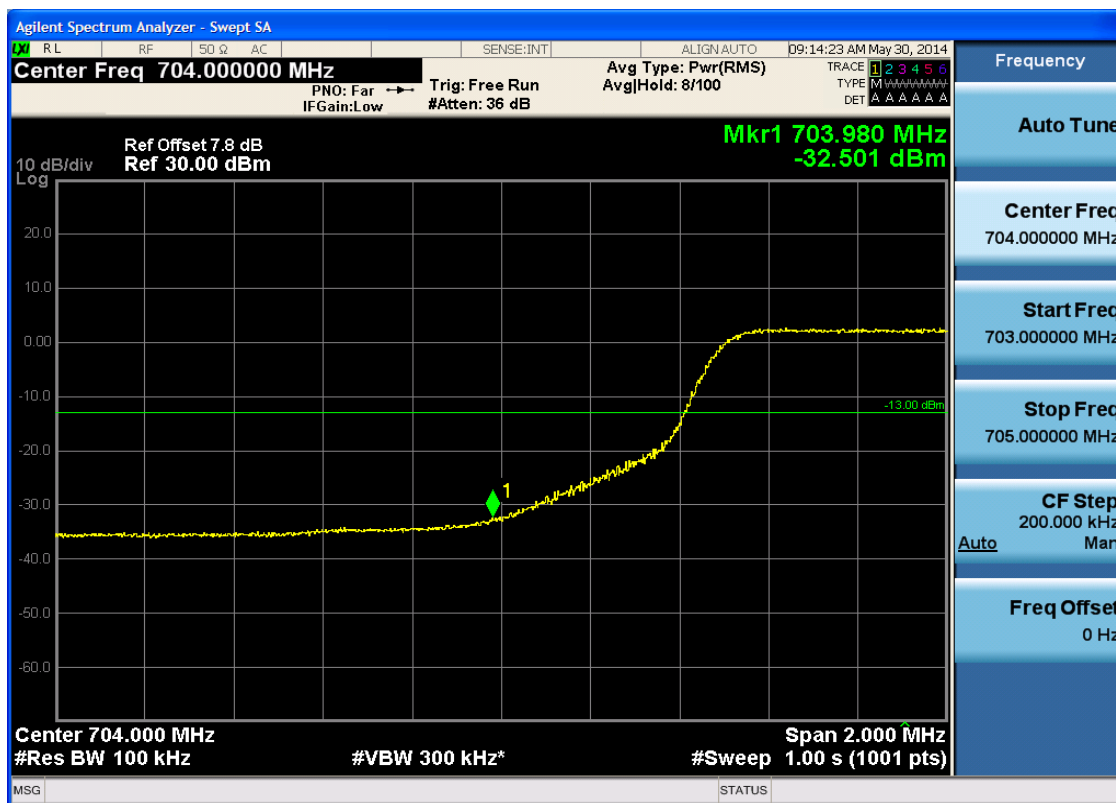


5.3.4.2.2.1.3 Test RB = RB25#13





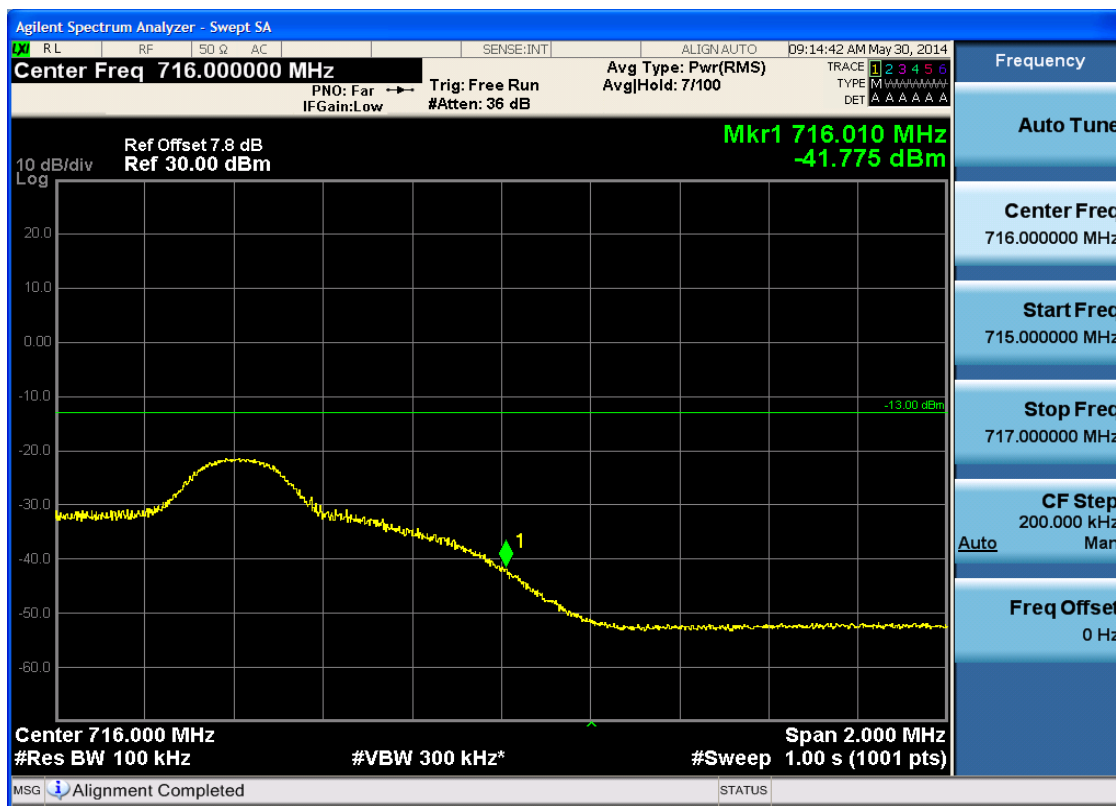
5.3.4.2.2.1.4 Test RB = RB50#0





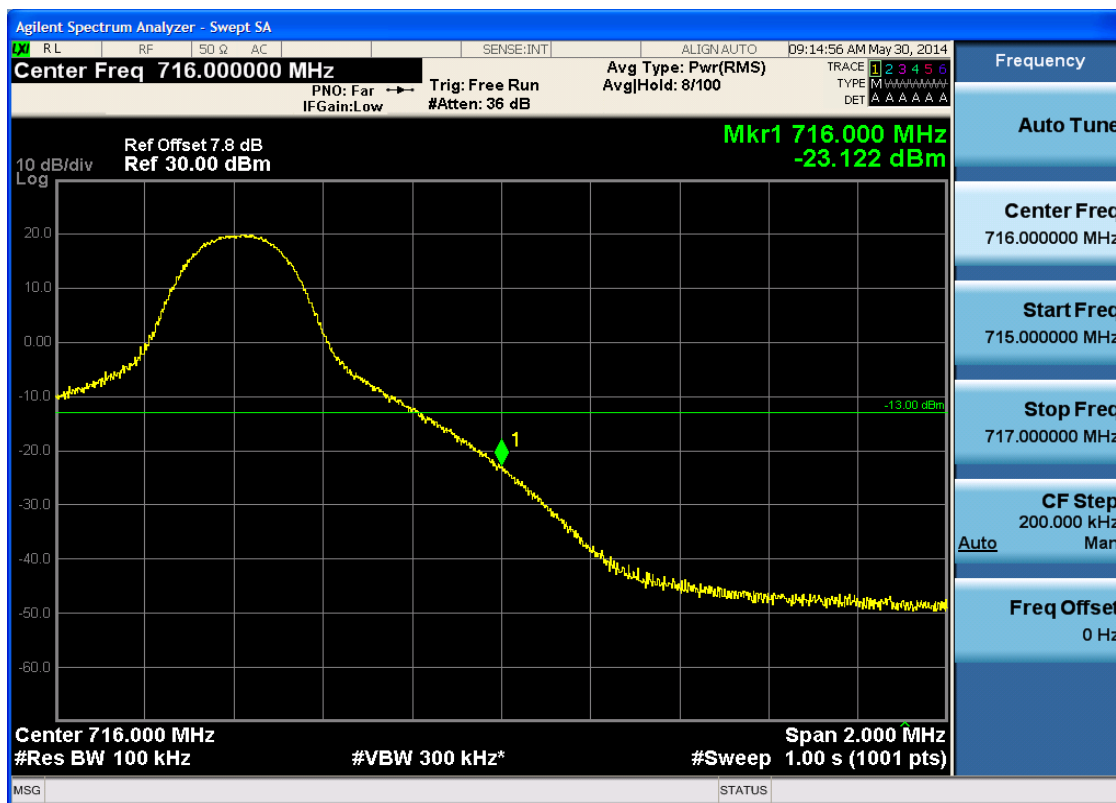
5.3.4.2.2.2 Test Channel = HCH

5.3.4.2.2.2.1 Test RB = RB1#0





5.3.4.2.2.2 Test RB = RB1#49





5.3.4.2.2.3 Test RB = RB25#13





5.3.4.2.2.4 Test RB = RB50#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 GSM

6.1.1 Test Band = GSM850

6.1.1.1 Test Mode = GSM/TM1

6.1.1.1.1 Test Channel = LCH

