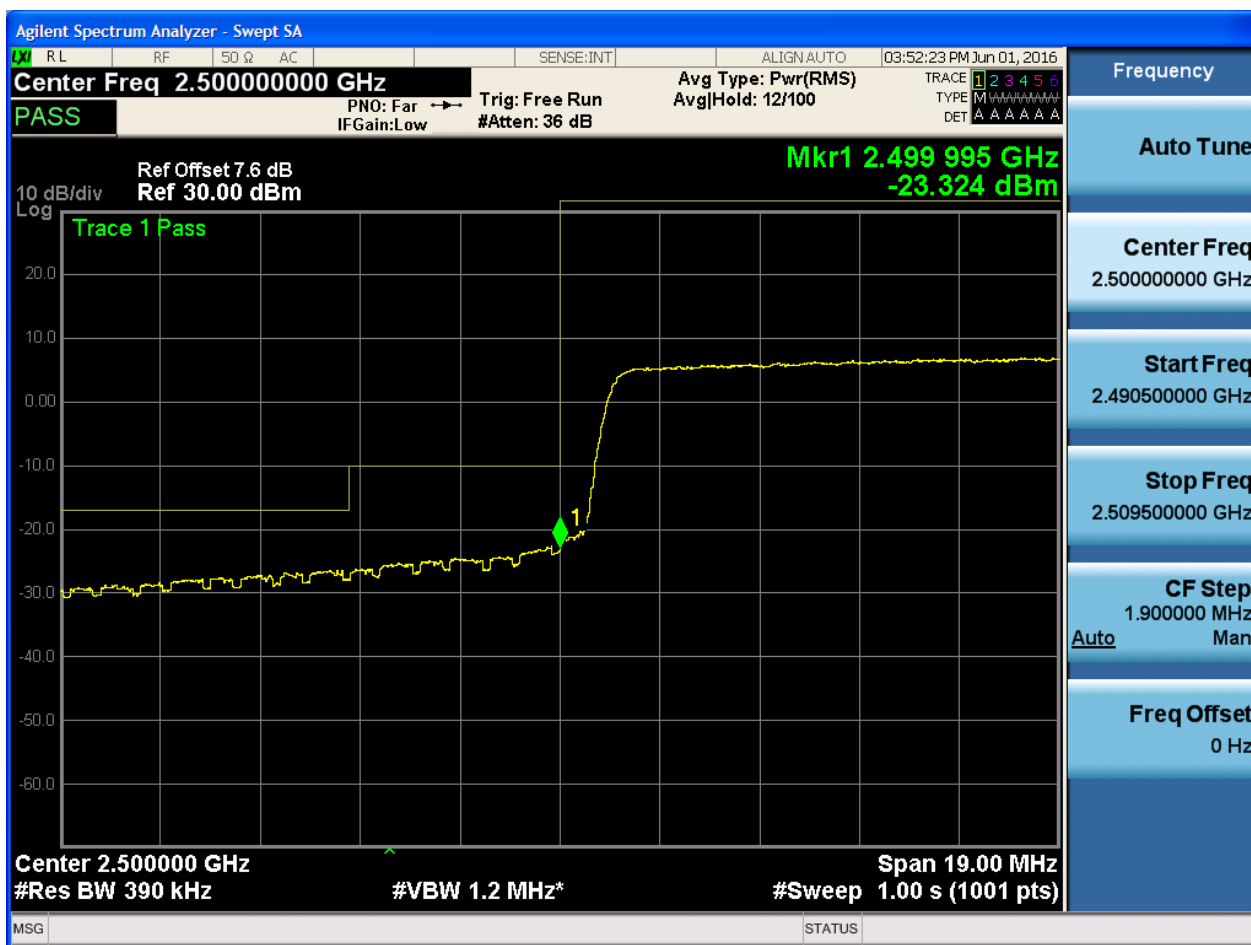




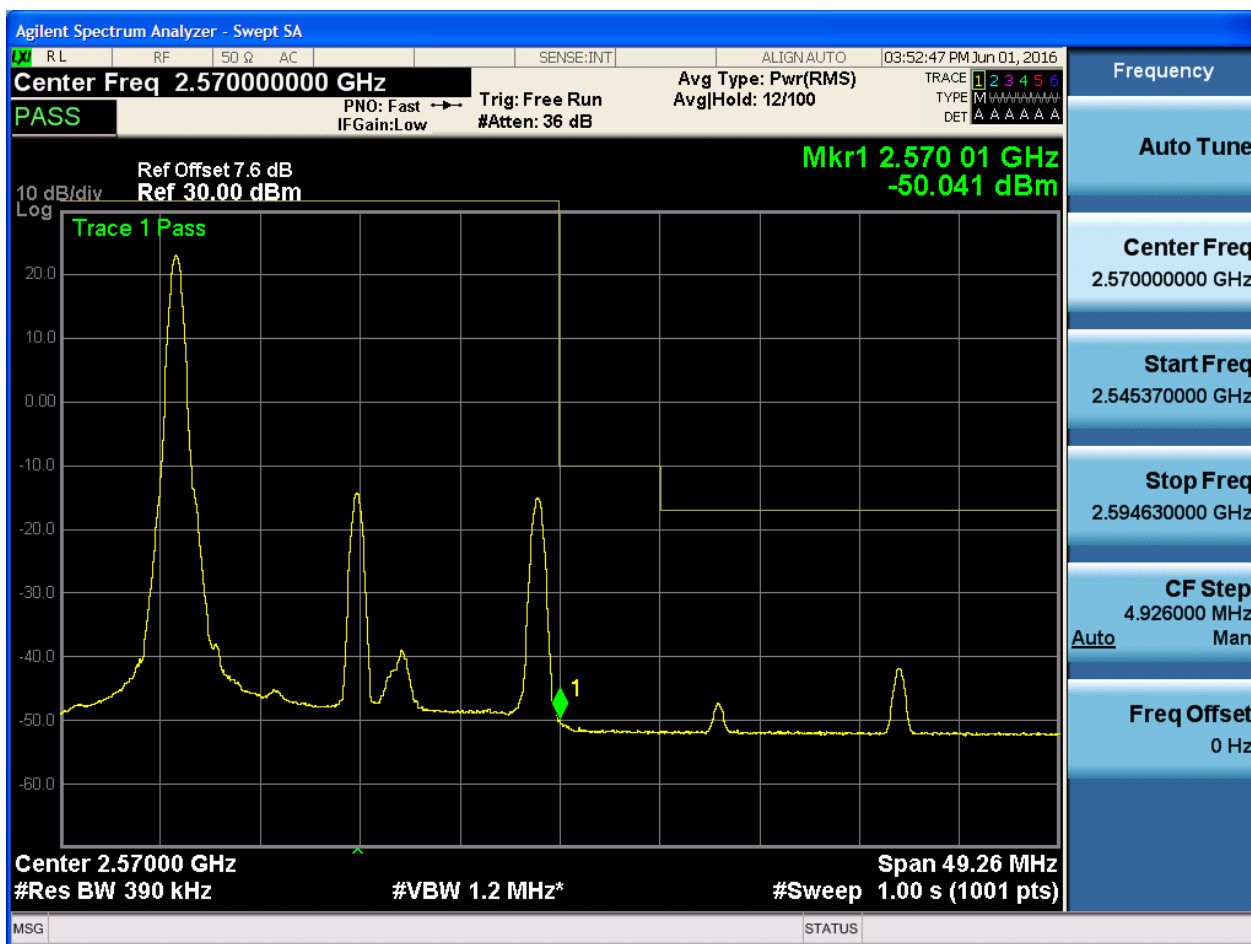
5.1.1.1.4.1.4 Test RB = RB100#0





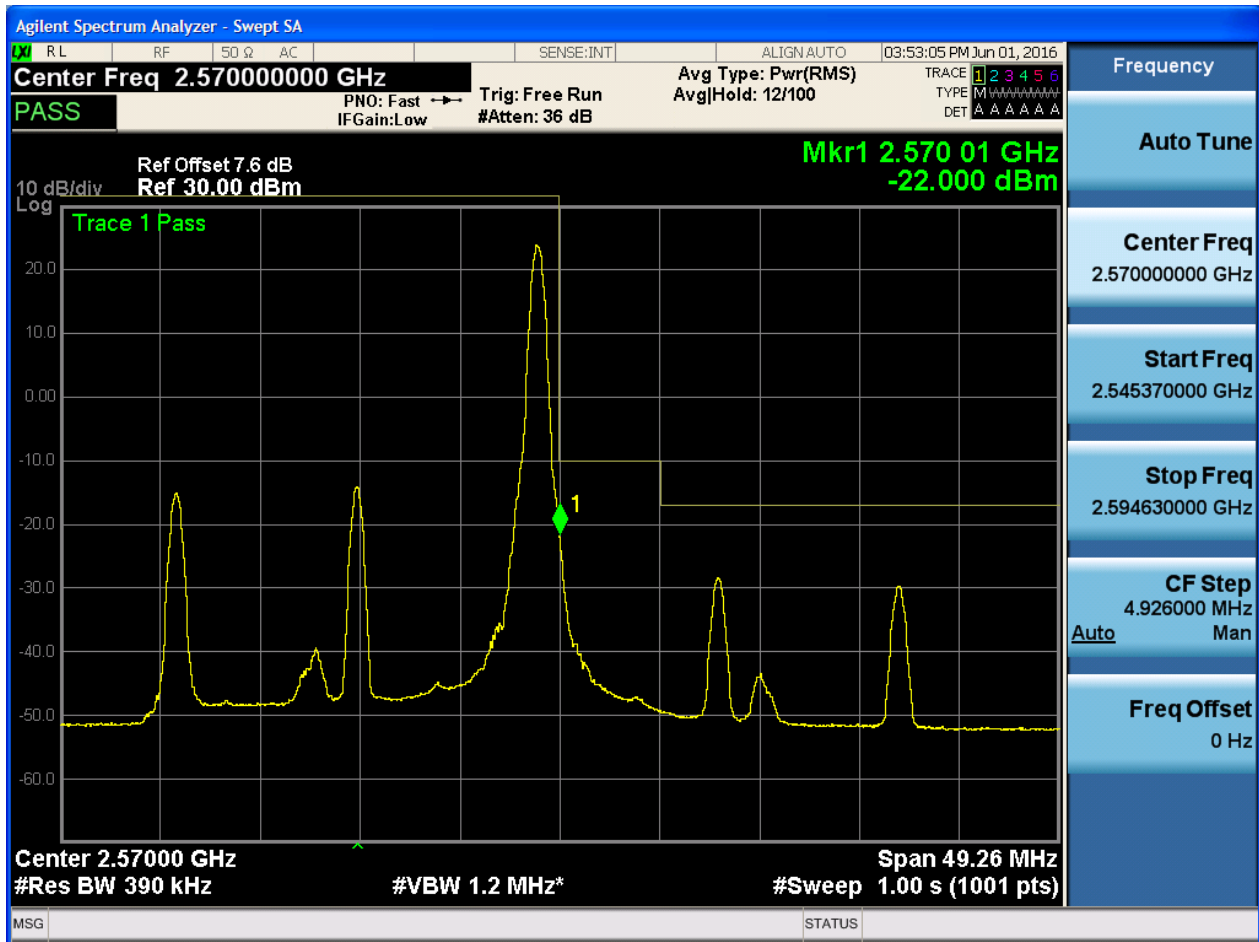
5.1.1.1.4.2 Test Channel = HCH

5.1.1.1.4.2.1 Test RB = RB1#0



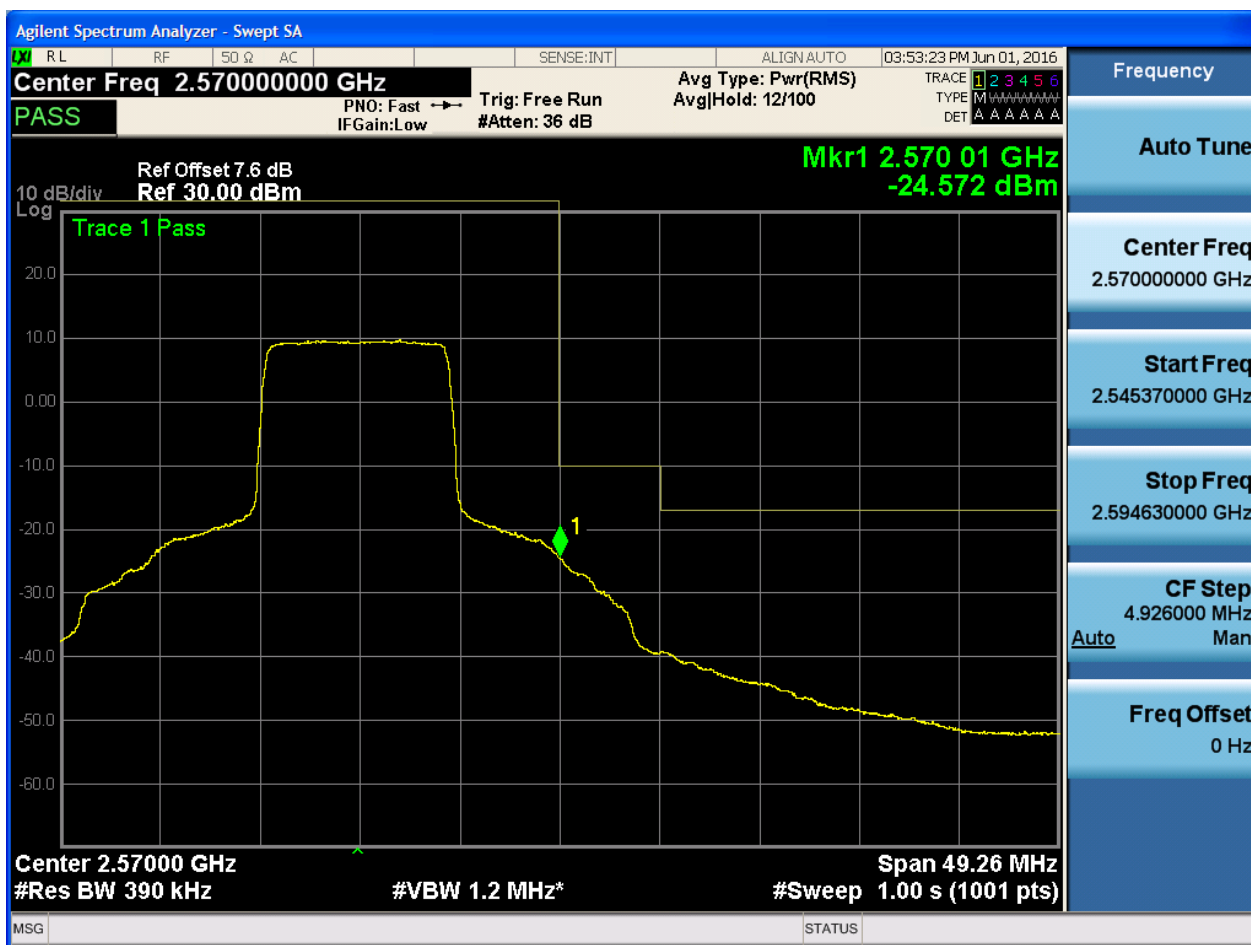


5.1.1.1.4.2.2 Test RB = RB1#99





5.1.1.1.4.2.3 Test RB = RB50#25





5.1.1.1.4.2.4 Test RB = RB100#0



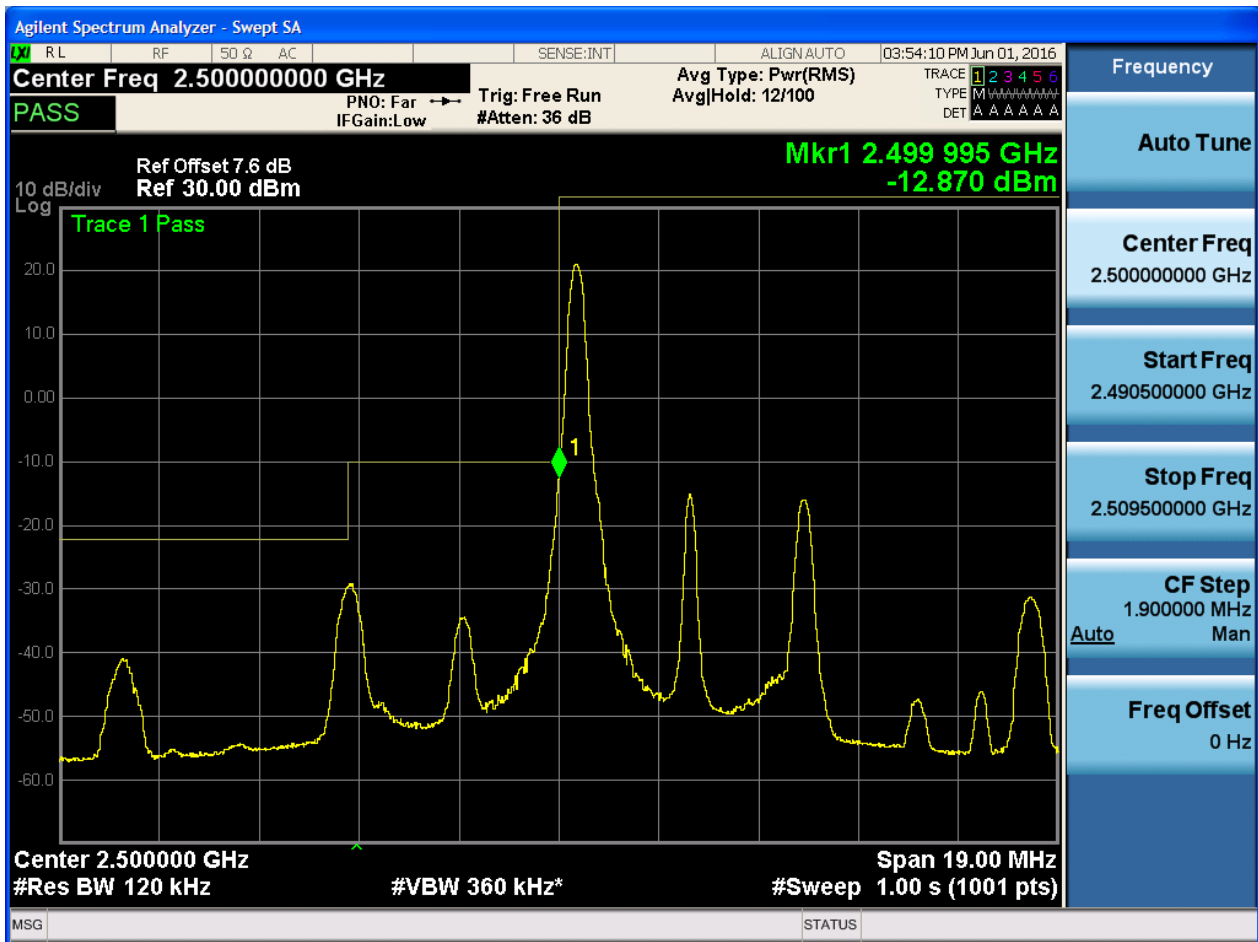


5.1.1.2 Test Mode = LTE/TM2

5.1.1.2.1 Test Bandwidth = 5

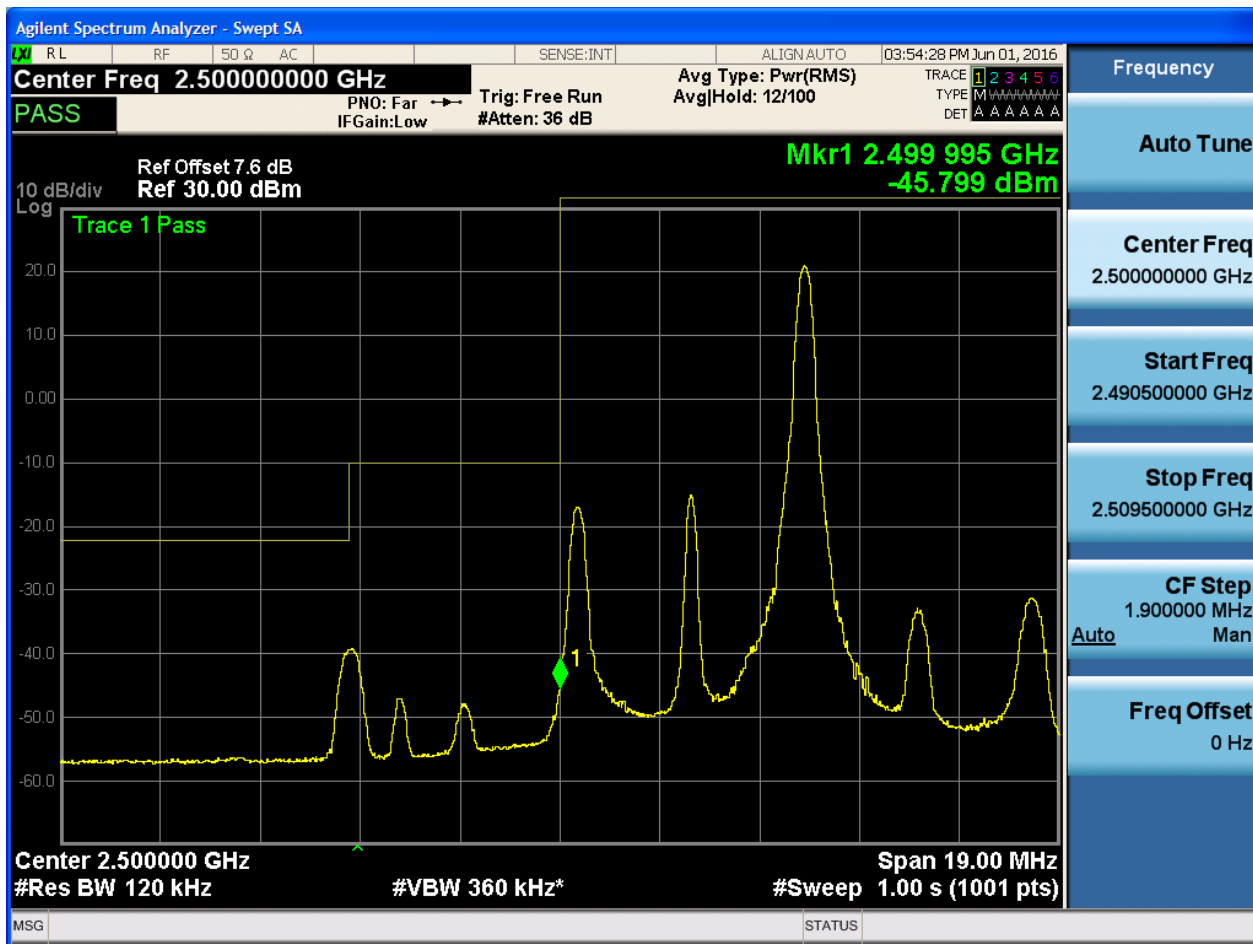
5.1.1.2.1.1 Test Channel = LCH

5.1.1.2.1.1.1 Test RB = RB1#0



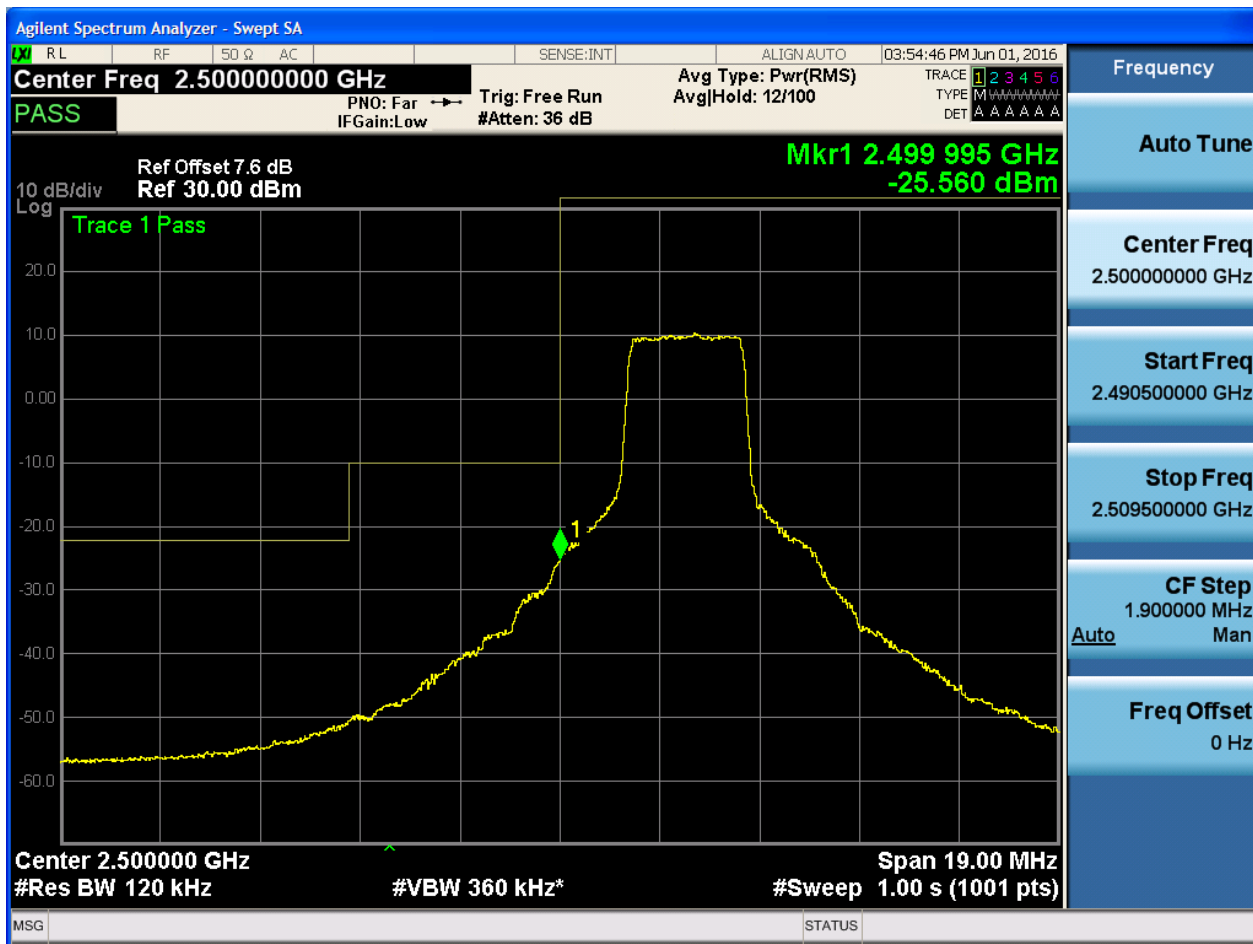


5.1.1.2.1.1.2 Test RB = RB1#24





5.1.1.2.1.1.3 Test RB = RB12#6





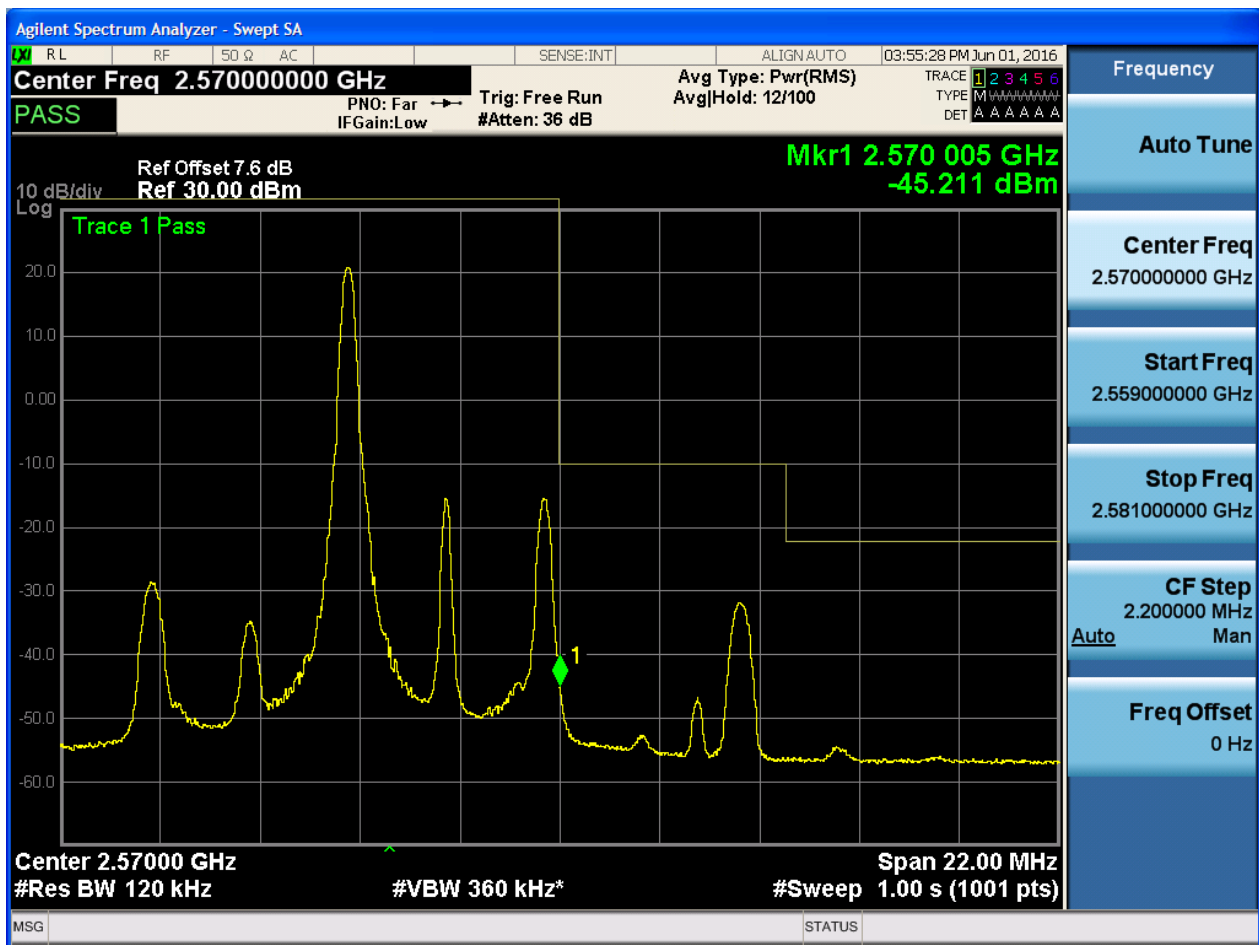
5.1.1.2.1.1.4 Test RB = RB25#0





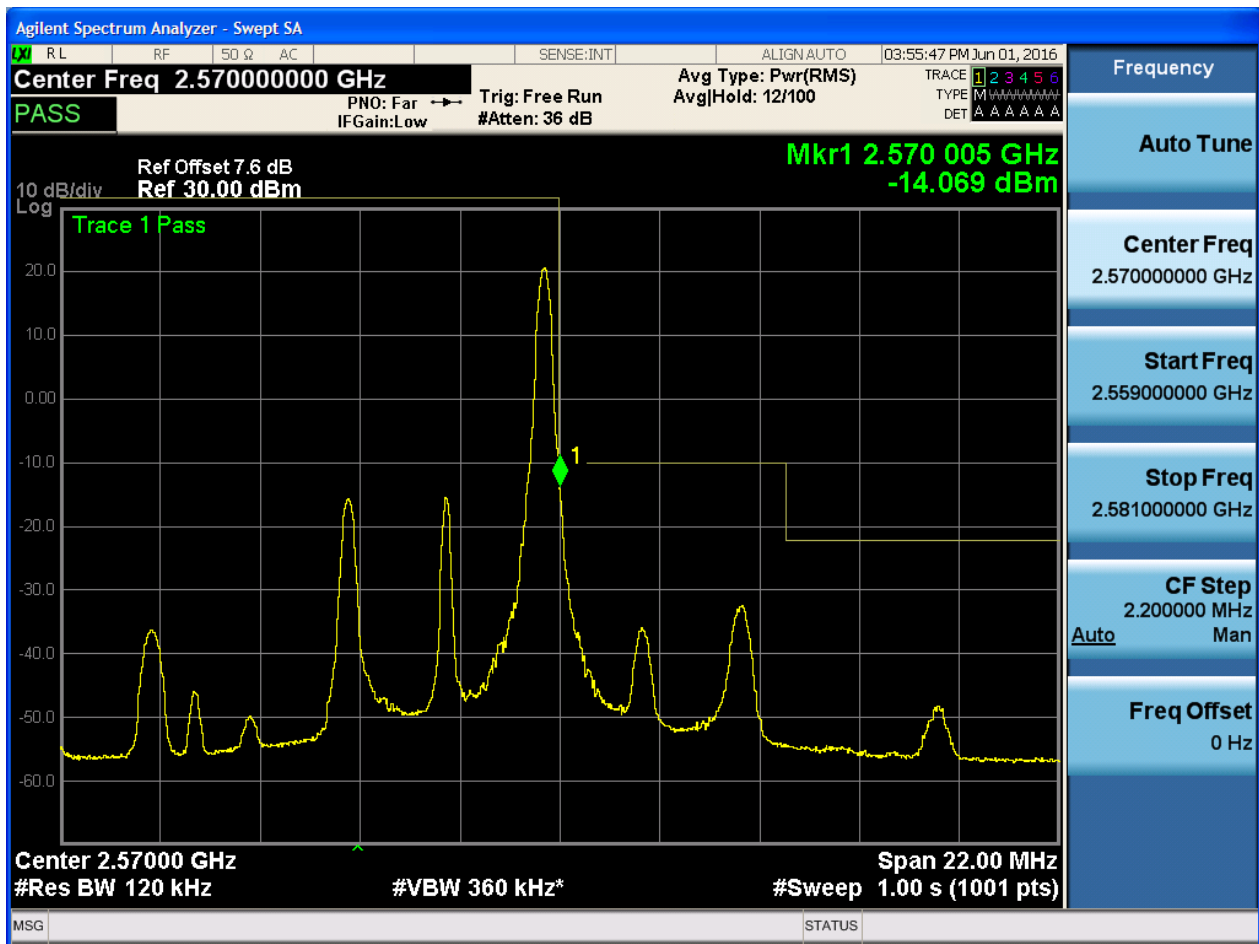
5.1.1.2.1.2 Test Channel = HCH

5.1.1.2.1.2.1 Test RB = RB1#0



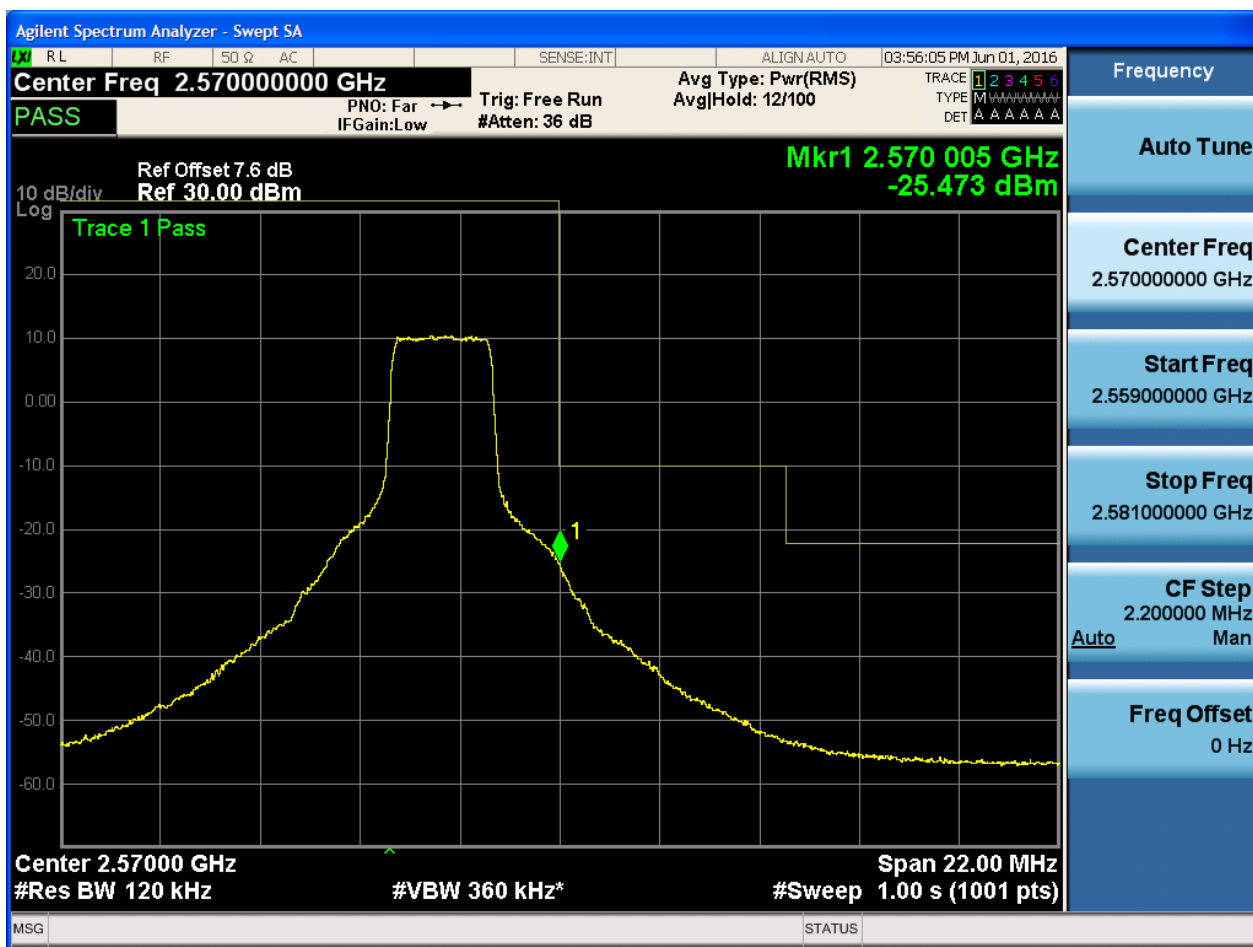


5.1.1.2.1.2.2 Test RB = RB1#24





5.1.1.2.1.2.3 Test RB = RB12#6





5.1.1.2.1.2.4 Test RB = RB25#0

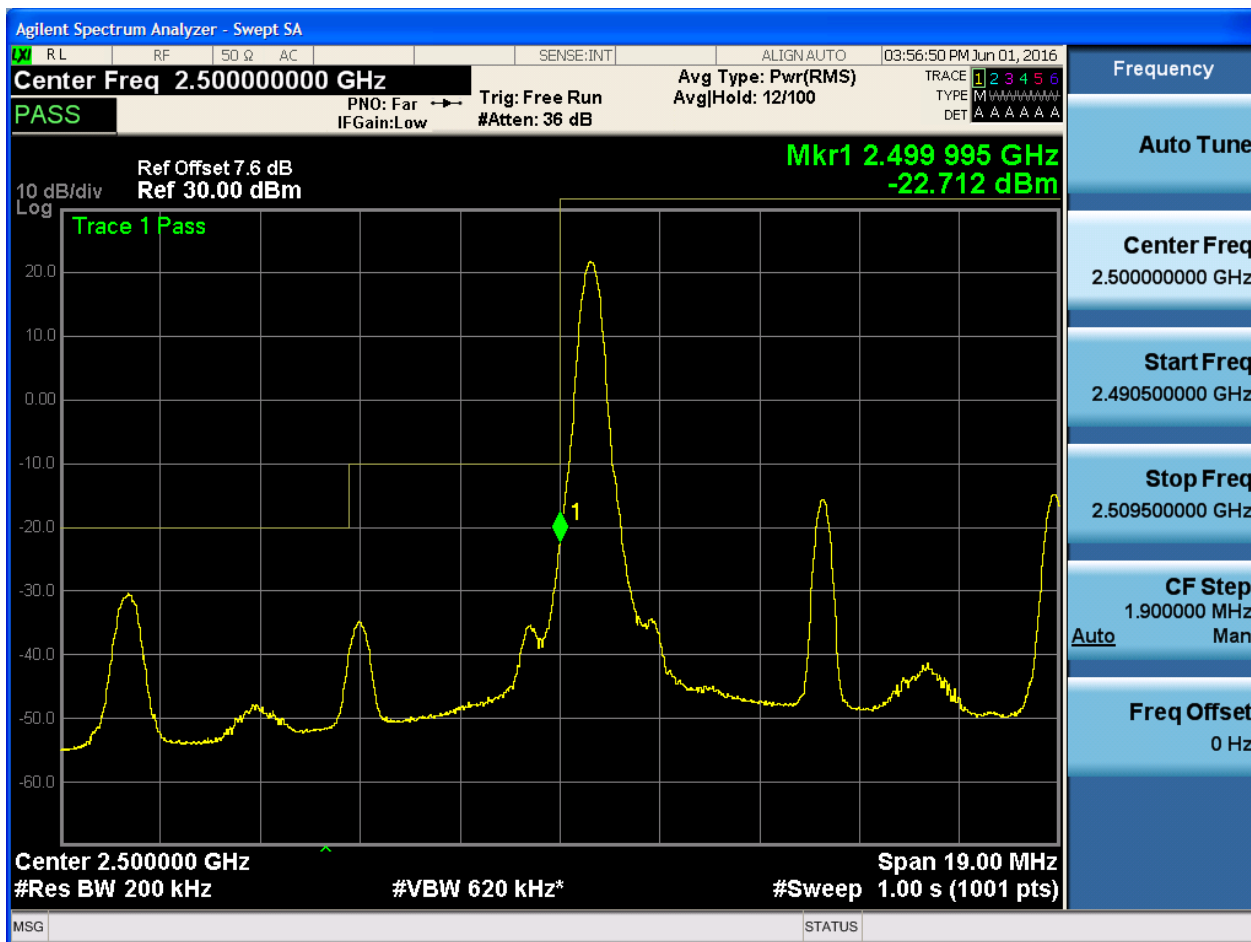




5.1.1.2.2 Test Bandwidth = 10

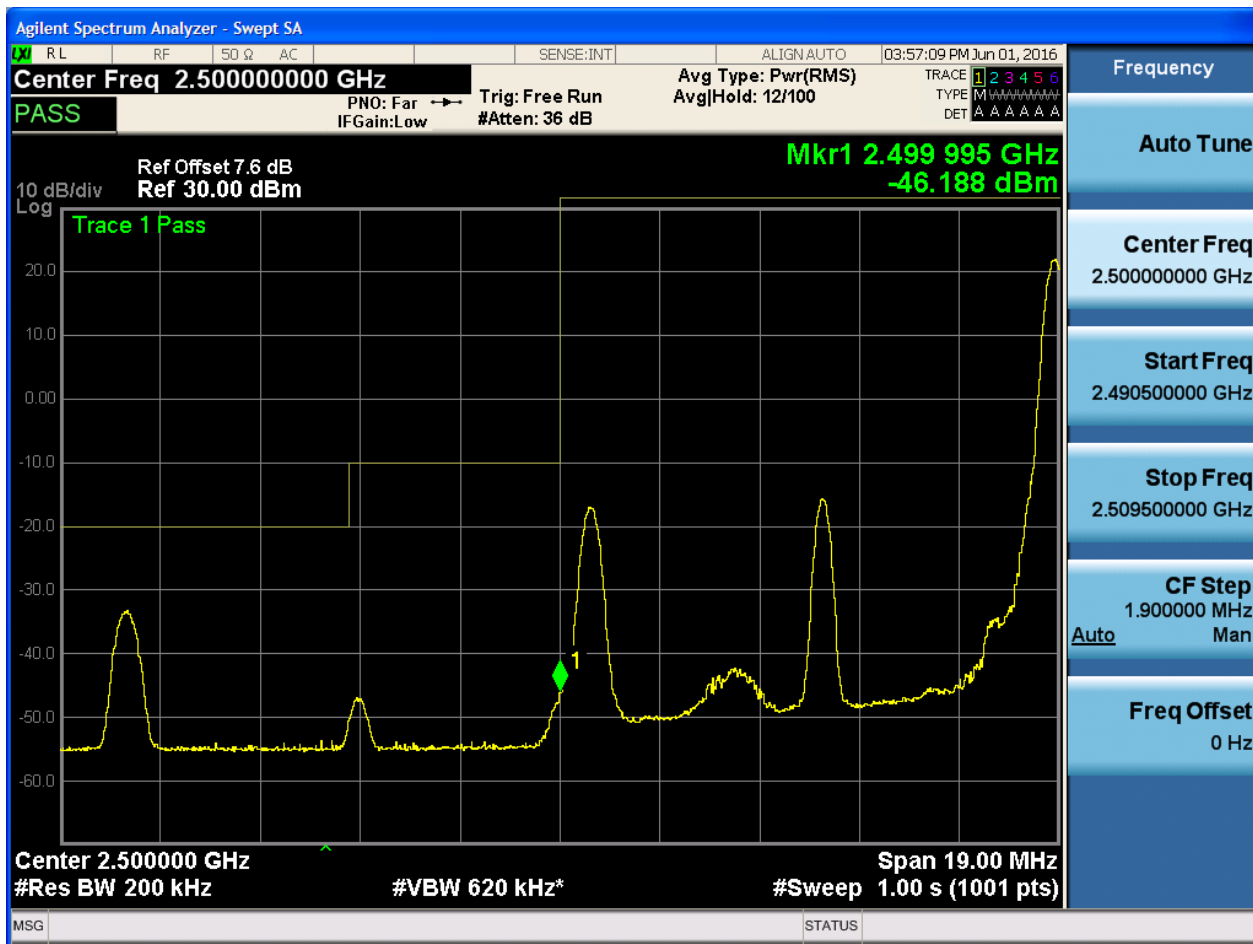
5.1.1.2.2.1 Test Channel = LCH

5.1.1.2.2.1.1 Test RB = RB1#0





5.1.1.2.2.1.2 Test RB = RB1#49



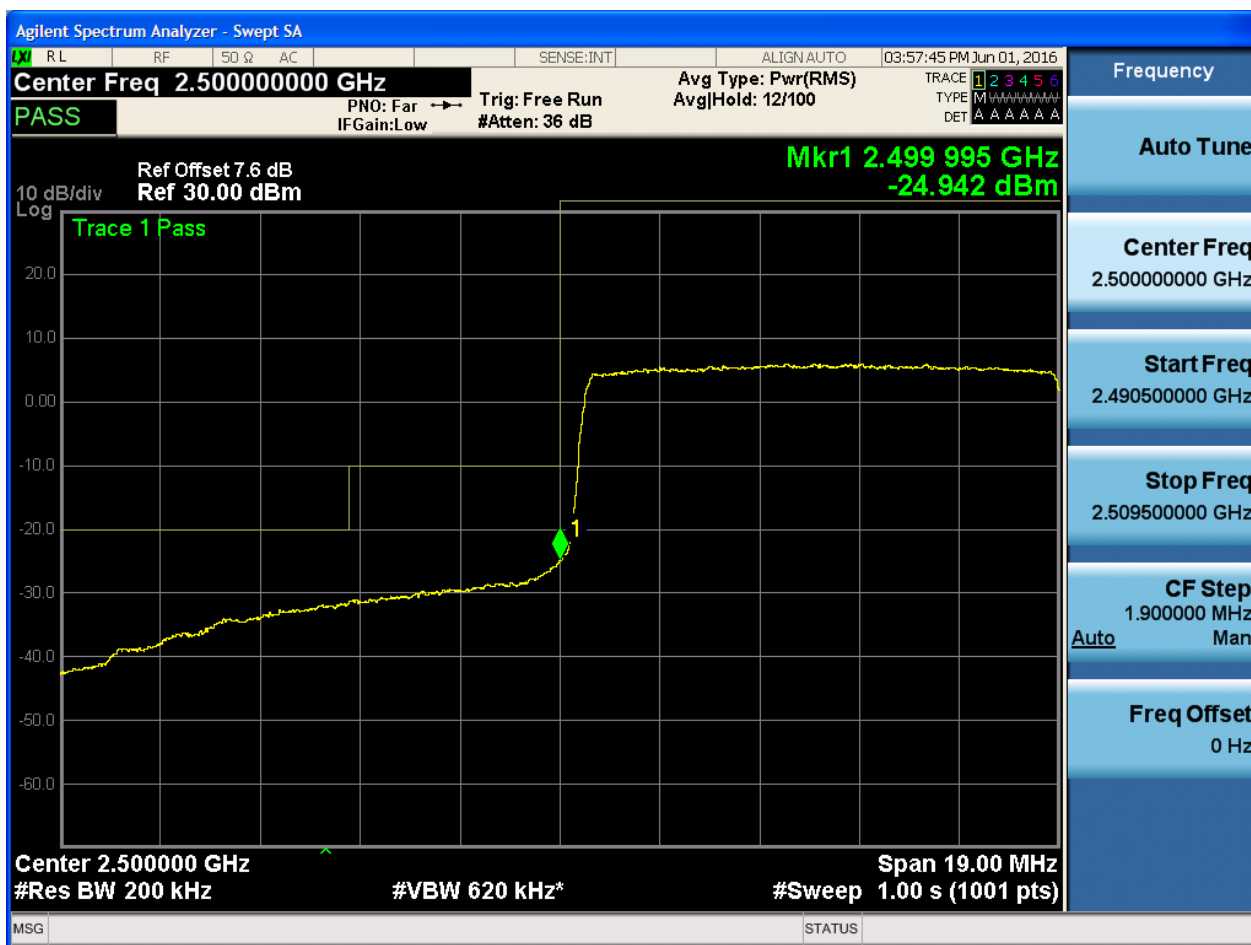


5.1.1.2.2.1.3 Test RB = RB25#13





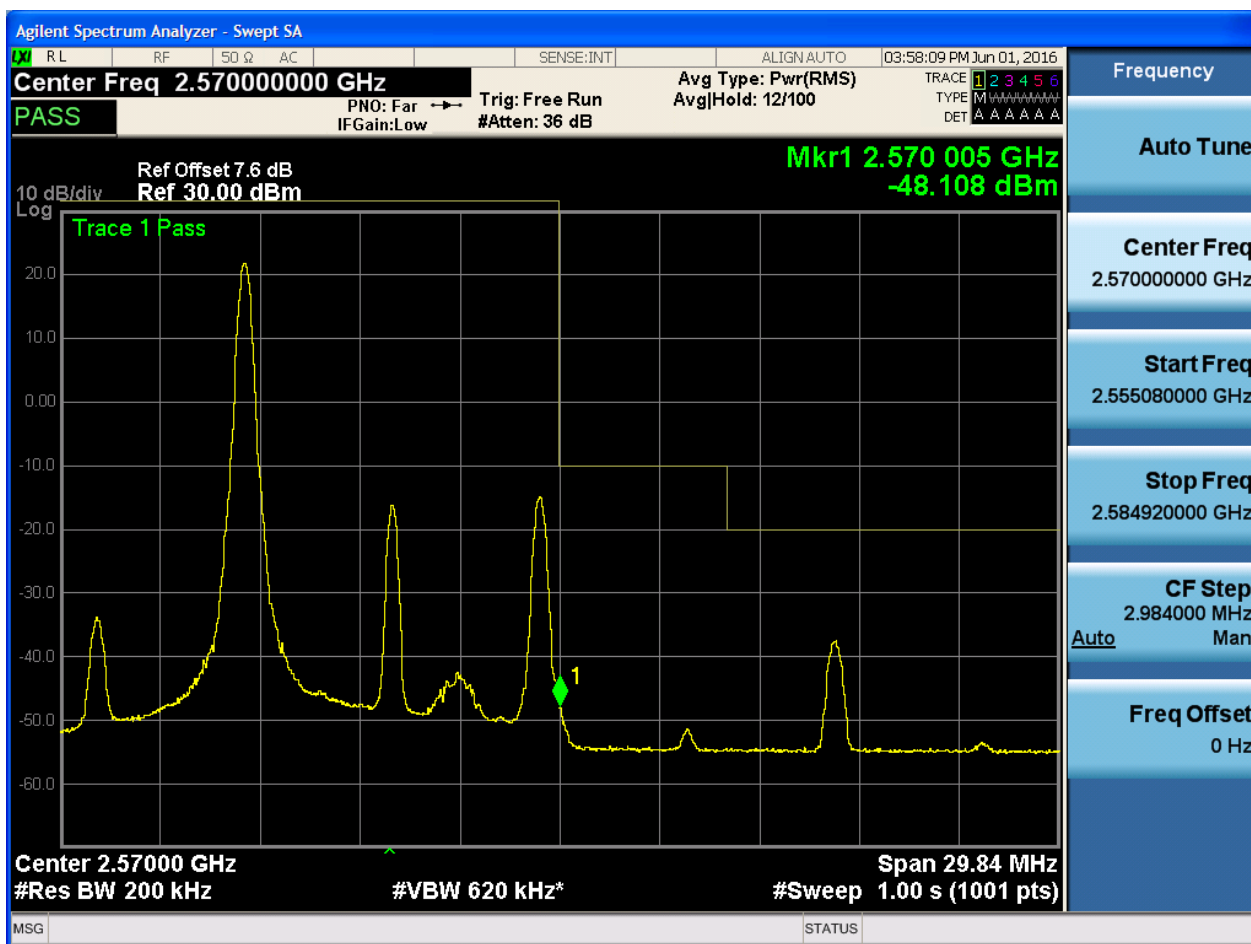
5.1.1.2.2.1.4 Test RB = RB50#0





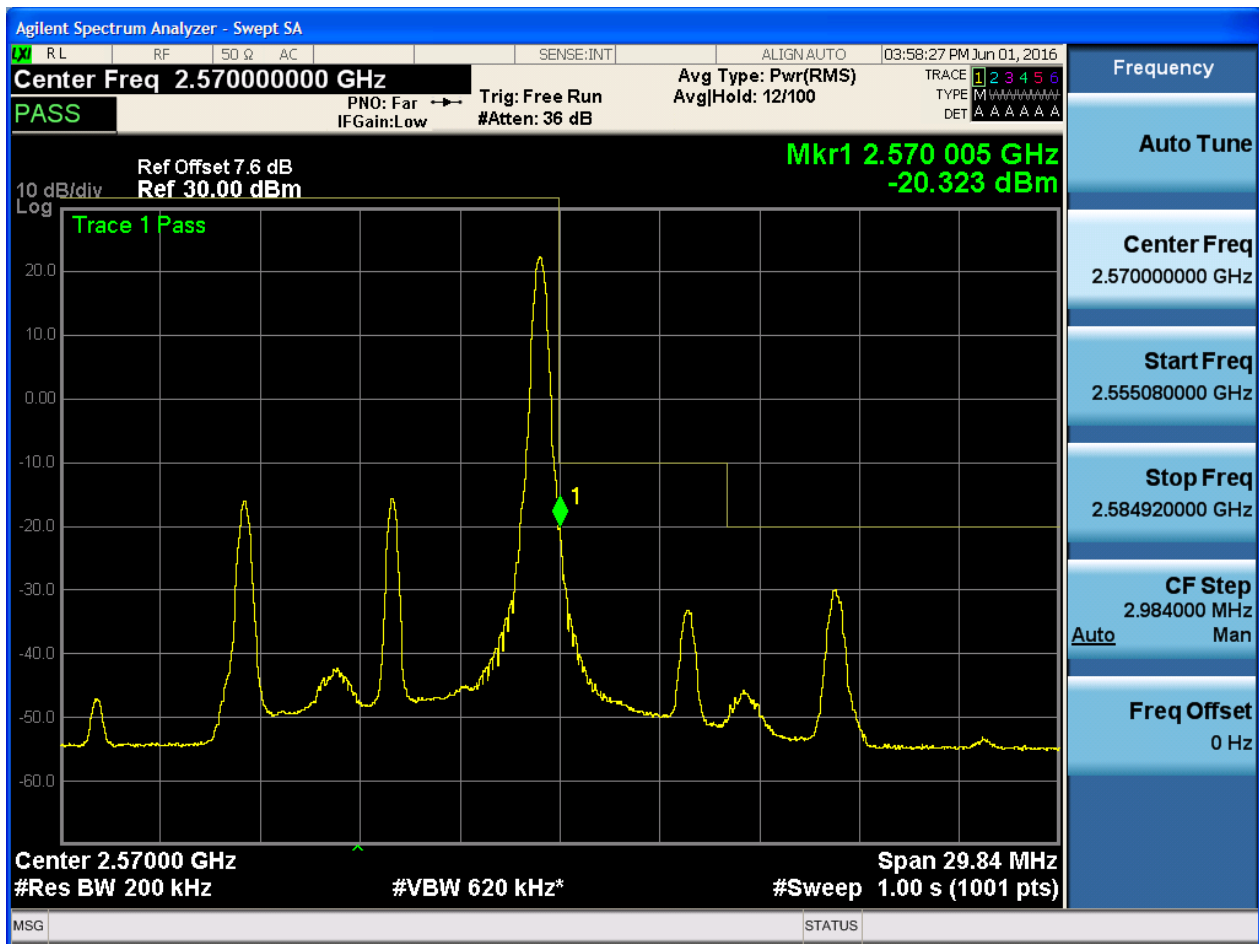
5.1.1.2.2.2 Test Channel = HCH

5.1.1.2.2.2.1 Test RB = RB1#0



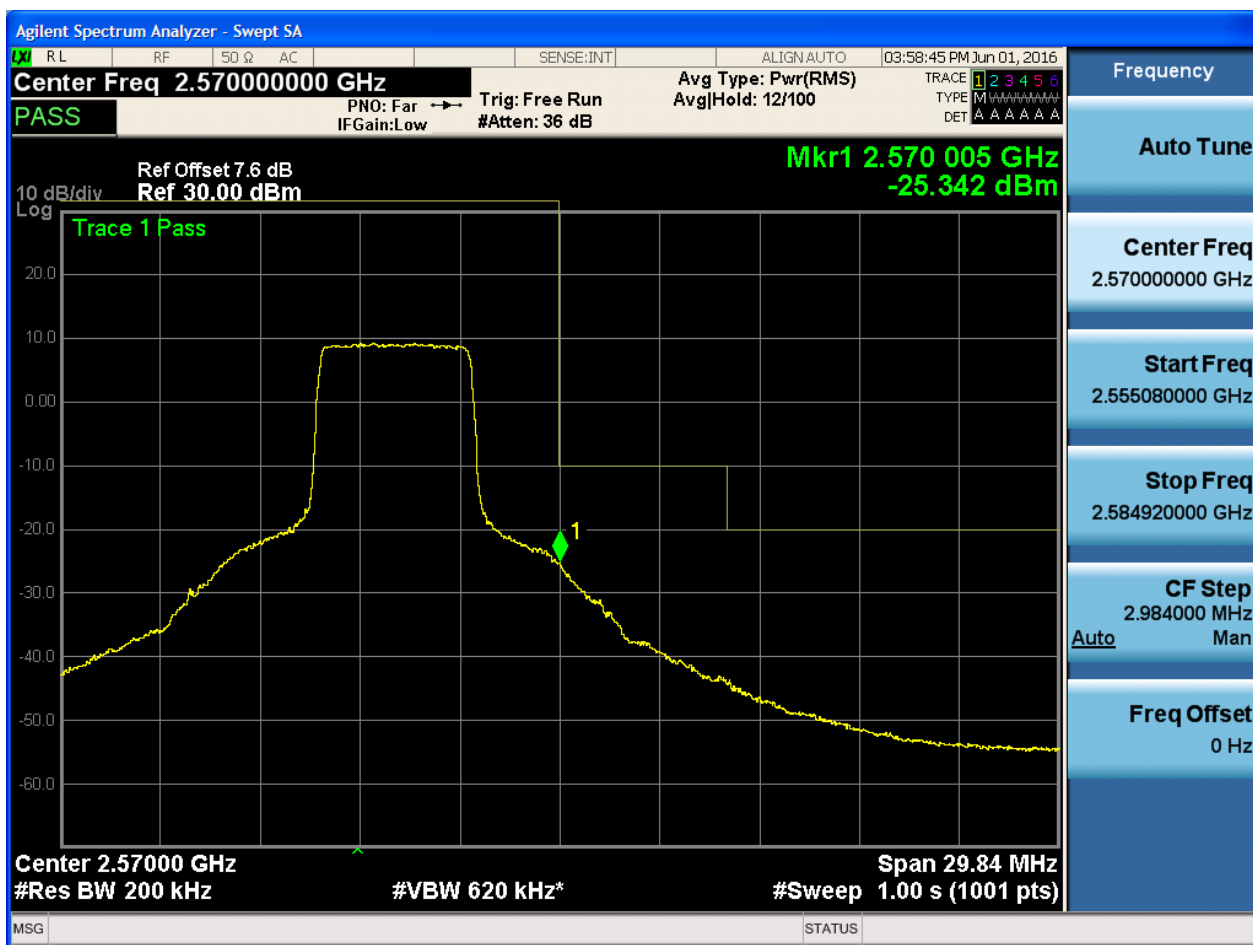


5.1.1.2.2.2 Test RB = RB1#49





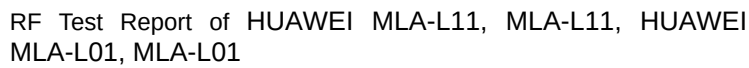
5.1.1.2.2.3 Test RB = RB25#13



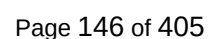


5.1.1.2.2.4 Test RB = RB50#0



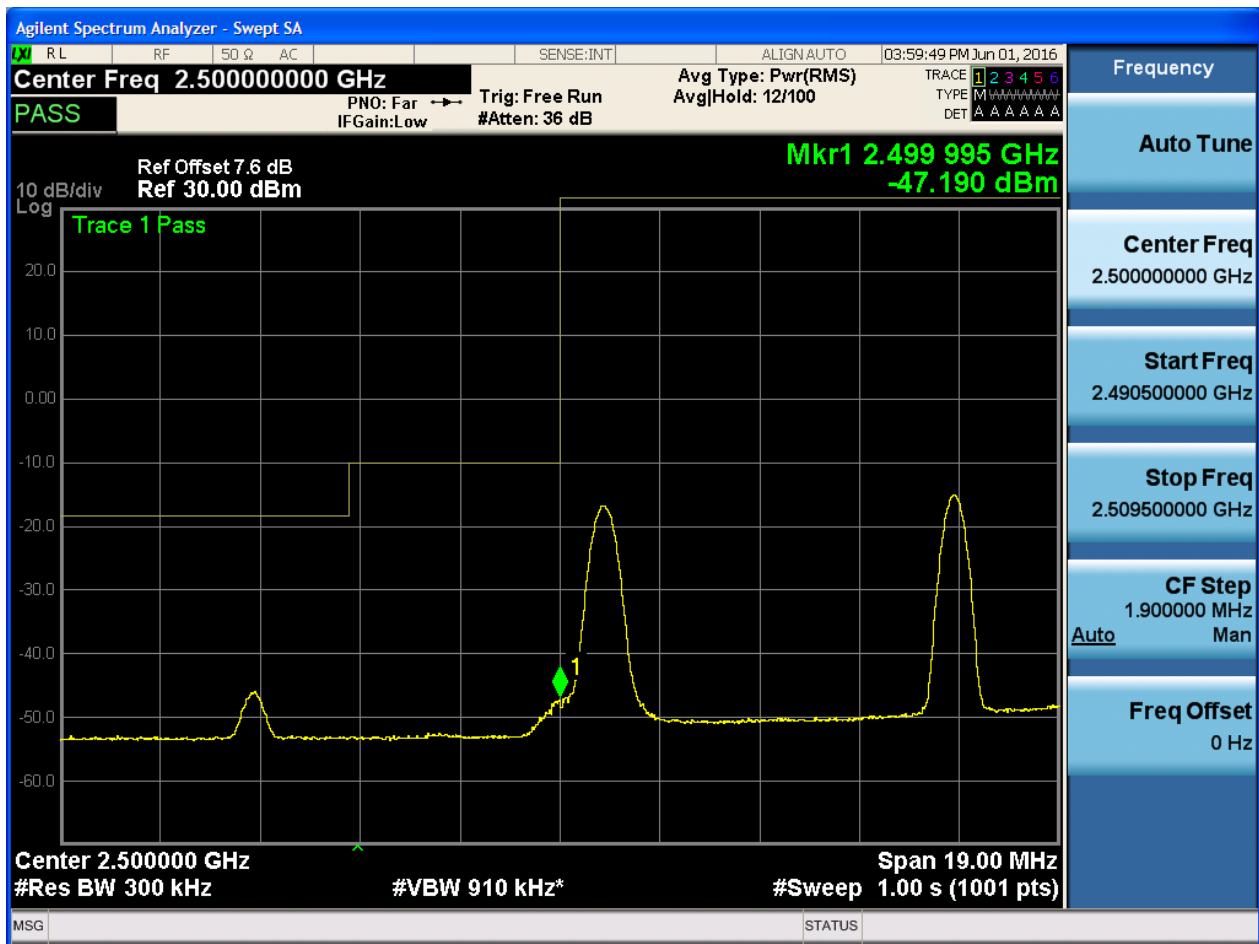


5.1.1.2.3.1.1 Test RB = RB1#0





5.1.1.2.3.1.2 Test RB = RB1#74





5.1.1.2.3.1.3 Test RB = RB36#18





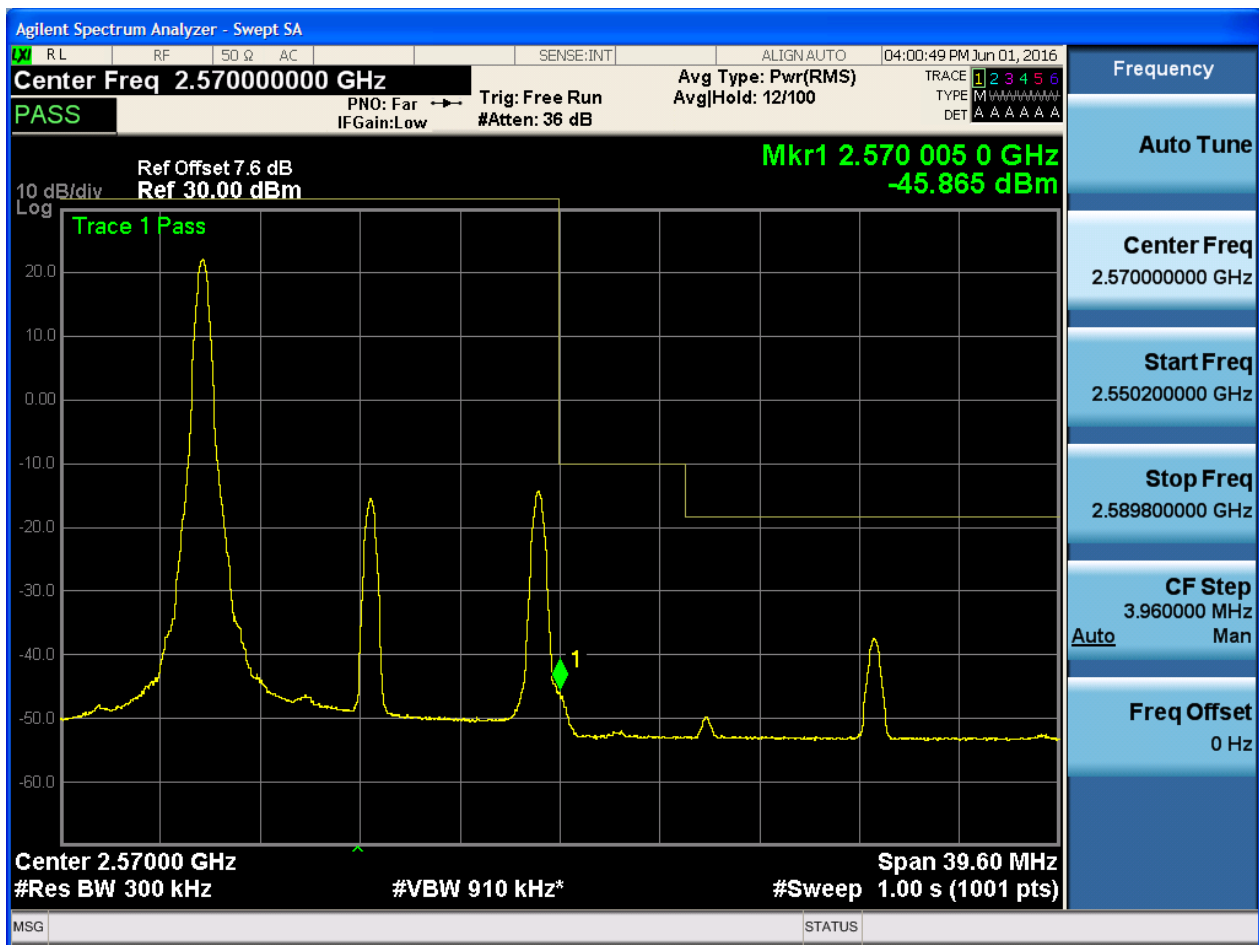
5.1.1.2.3.1.4 Test RB = RB75#0





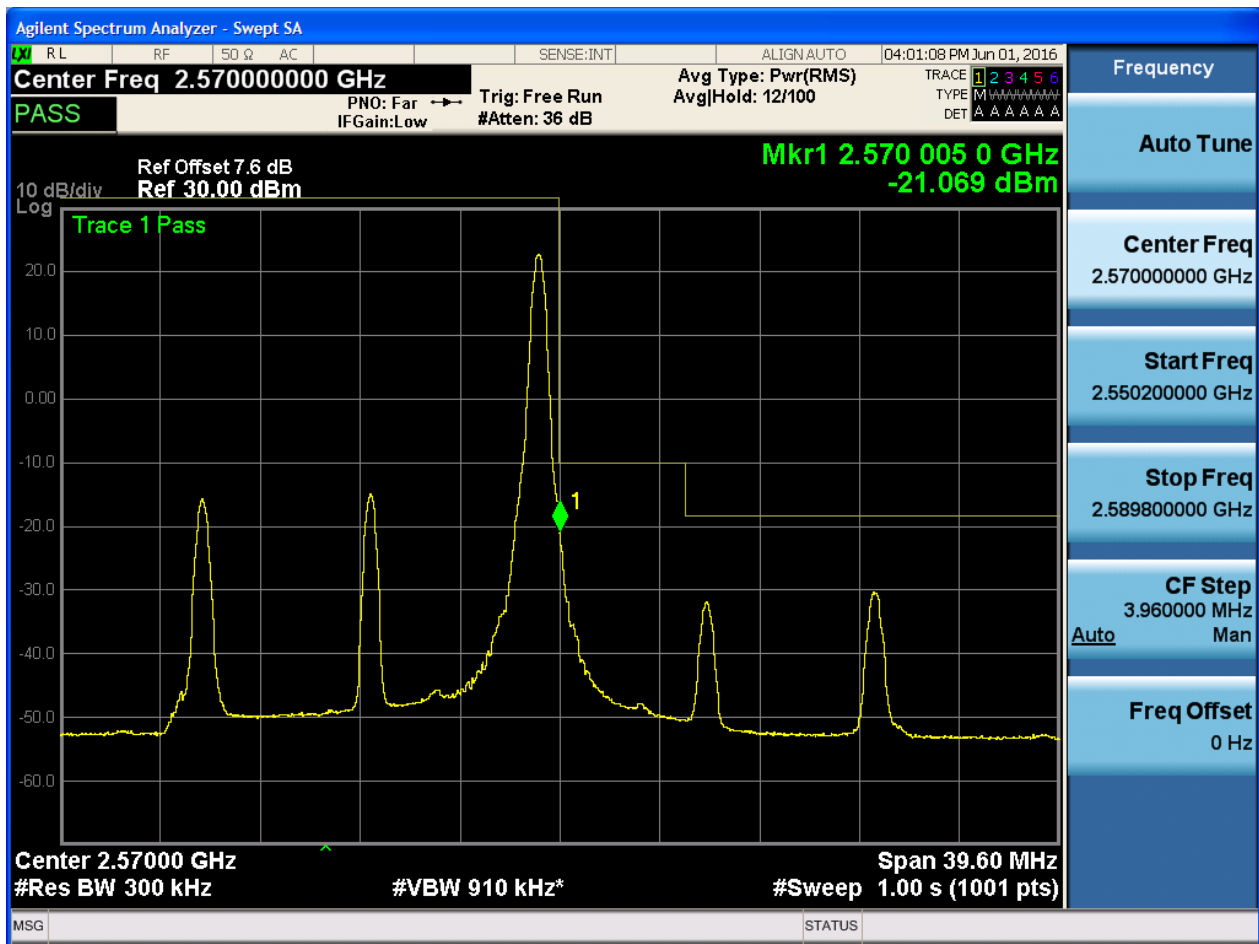
5.1.1.2.3.2 Test Channel = HCH

5.1.1.2.3.2.1 Test RB = RB1#0



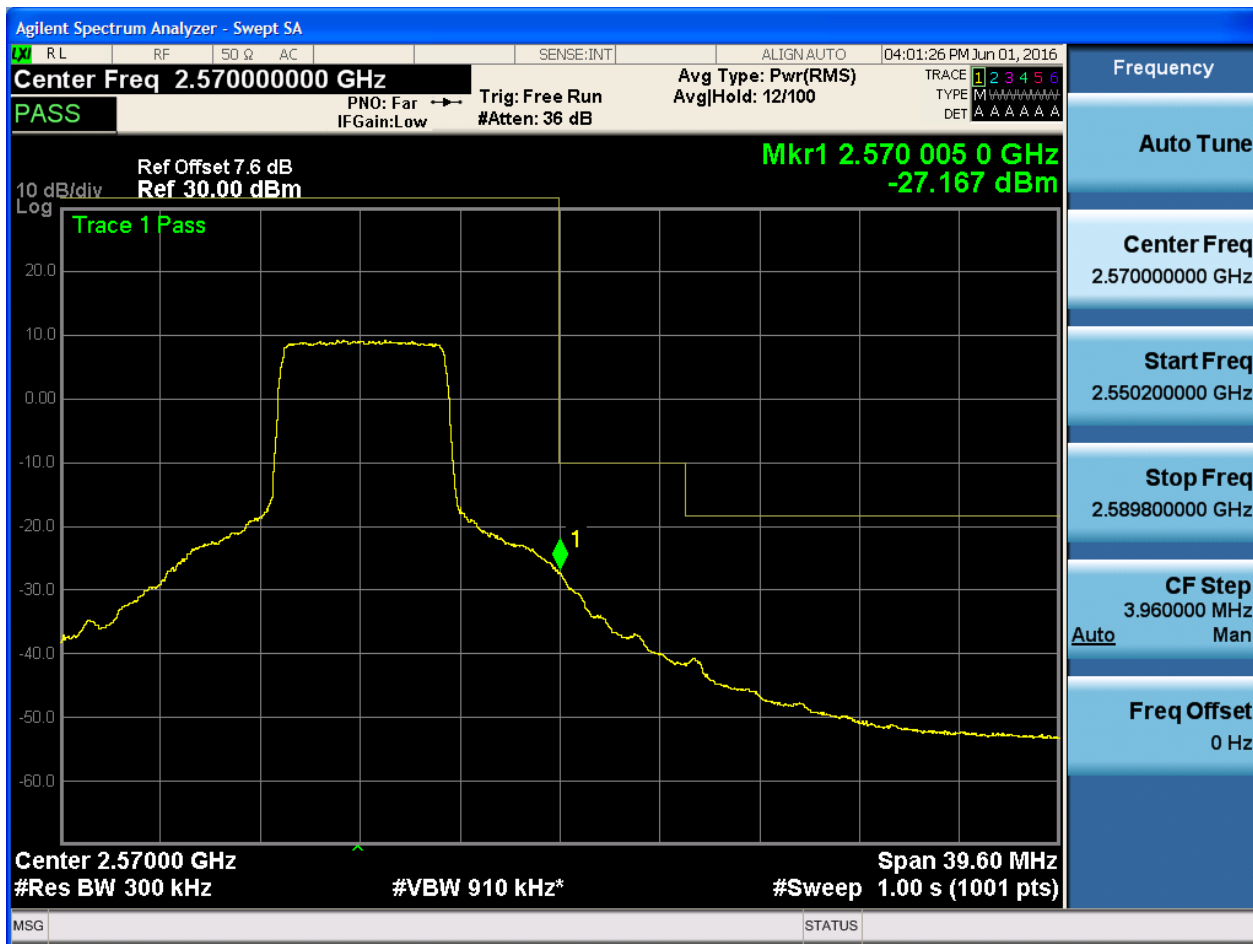


5.1.1.2.3.2.2 Test RB = RB1#74





5.1.1.2.3.2.3 Test RB = RB36#18





5.1.1.2.3.2.4 Test RB = RB75#0

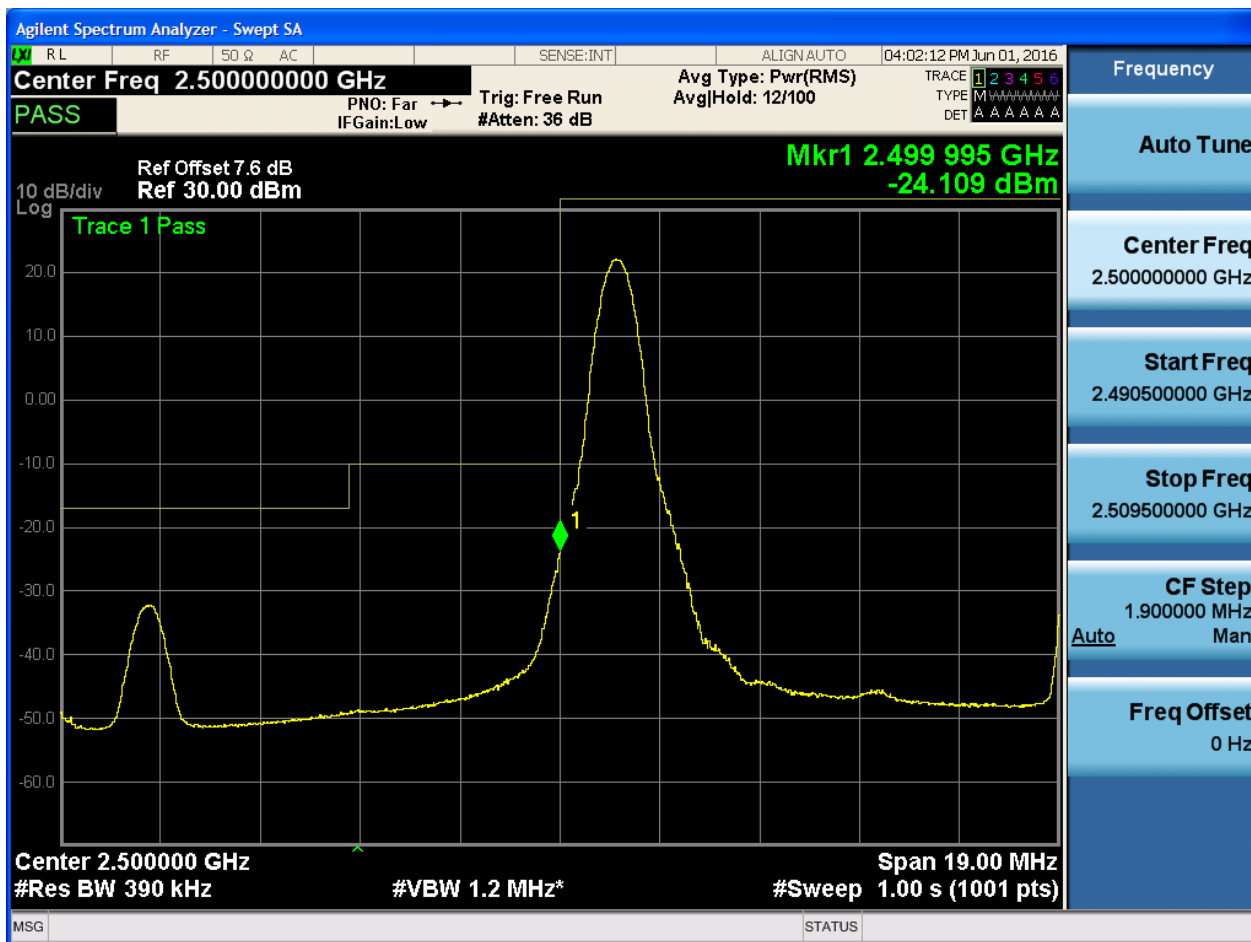




5.1.1.2.4 Test Bandwidth = 20

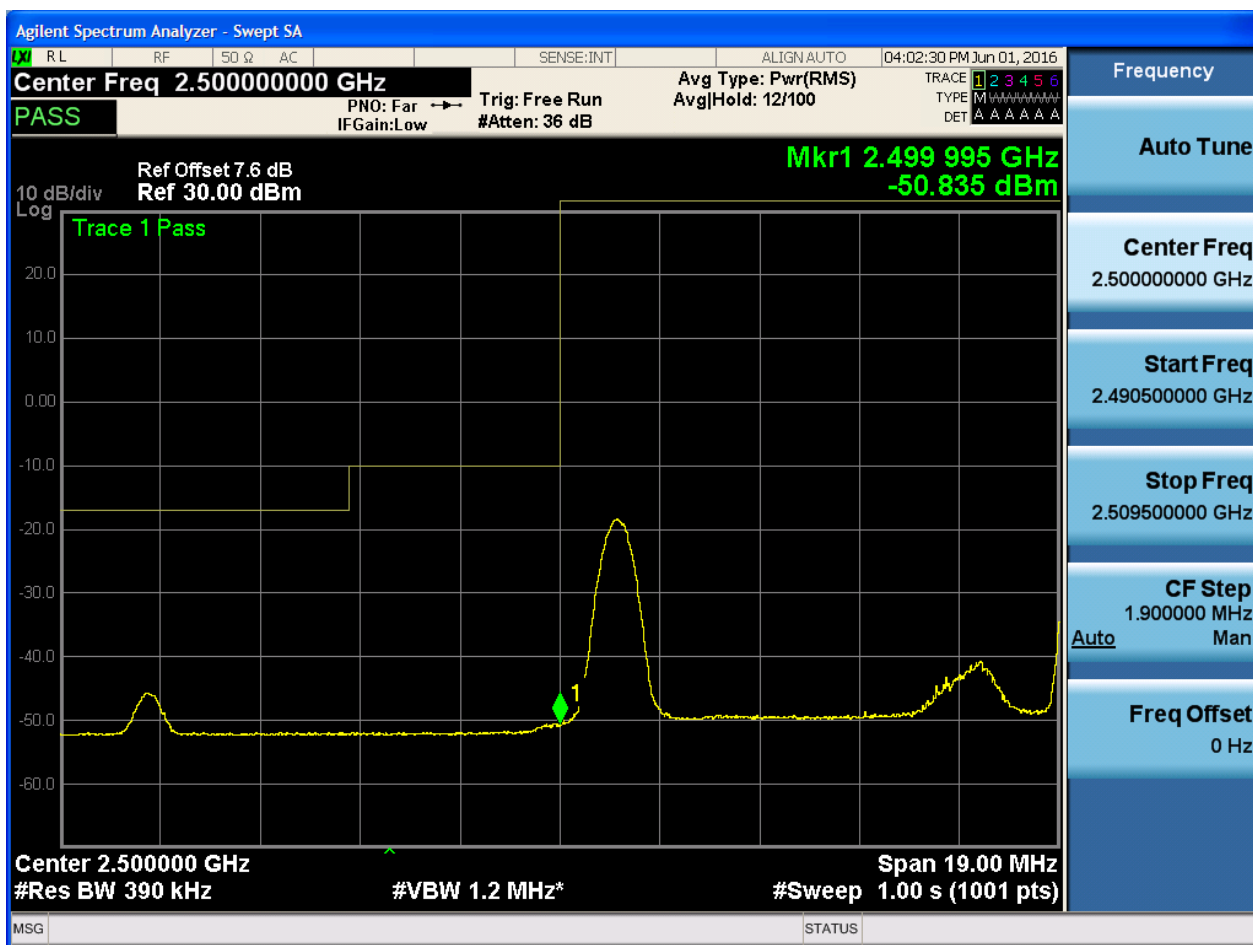
5.1.1.2.4.1 Test Channel = LCH

5.1.1.2.4.1.1 Test RB = RB1#0





5.1.1.2.4.1.2 Test RB = RB1#99



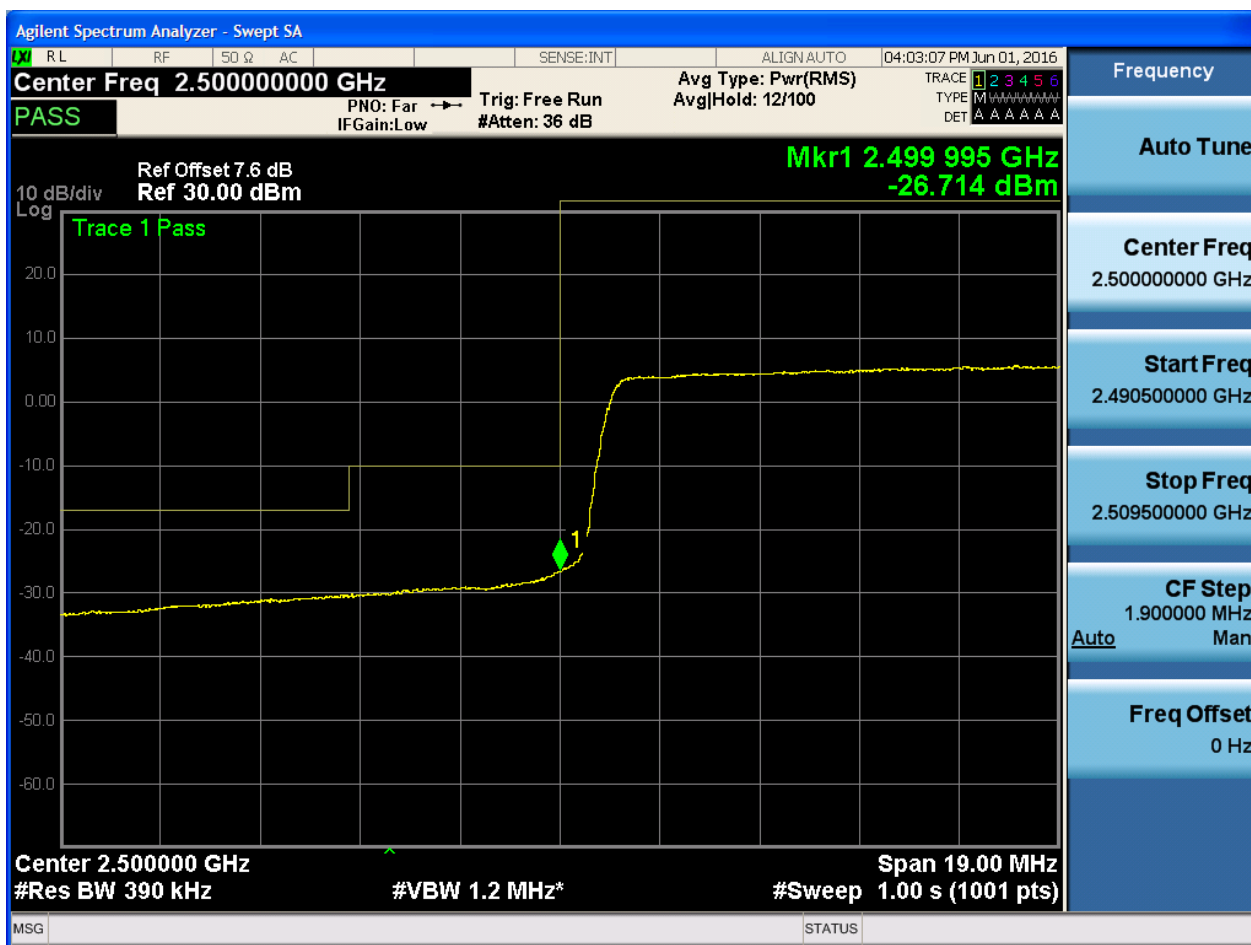


5.1.1.2.4.1.3 Test RB = RB50#25





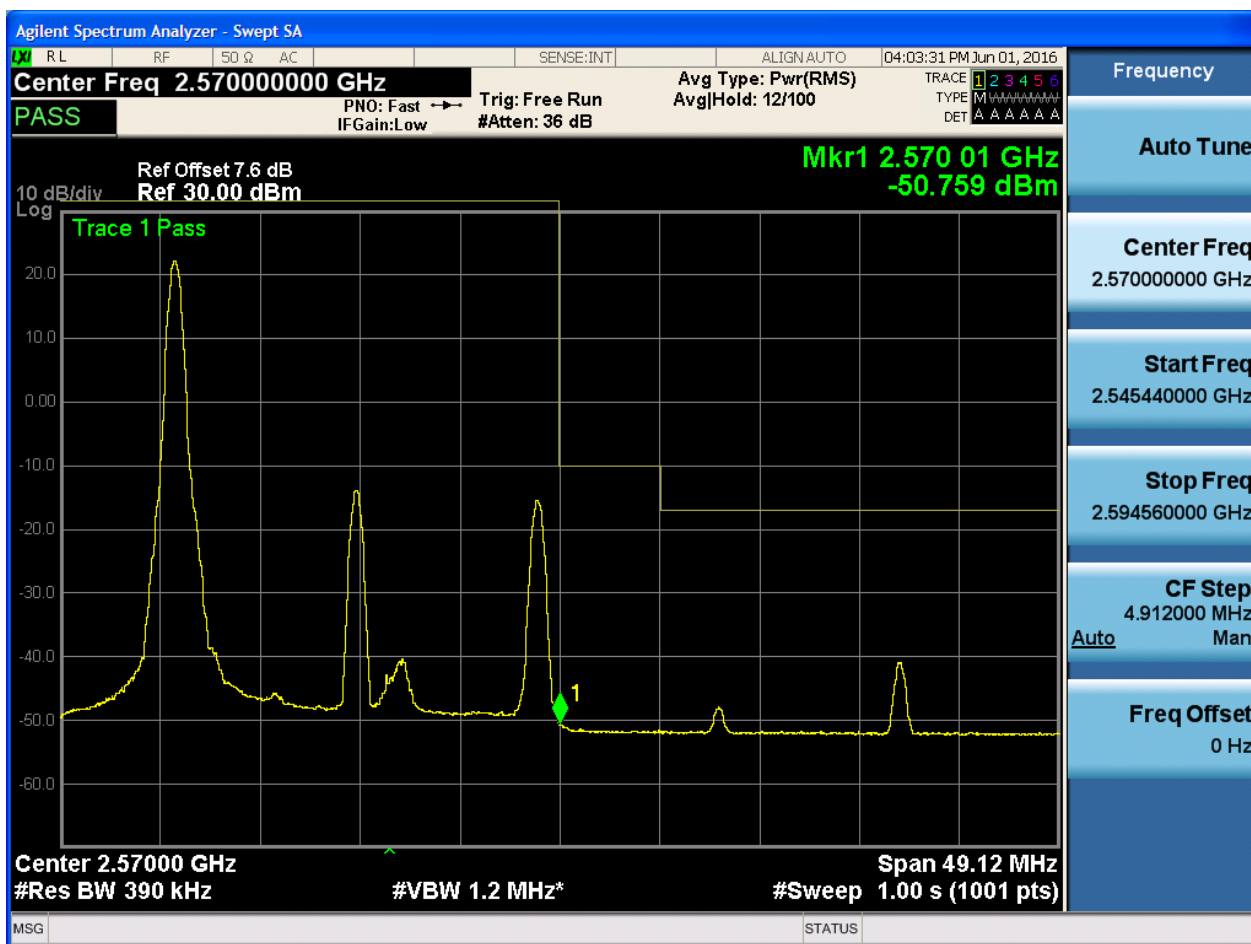
5.1.1.2.4.1.4 Test RB = RB100#0





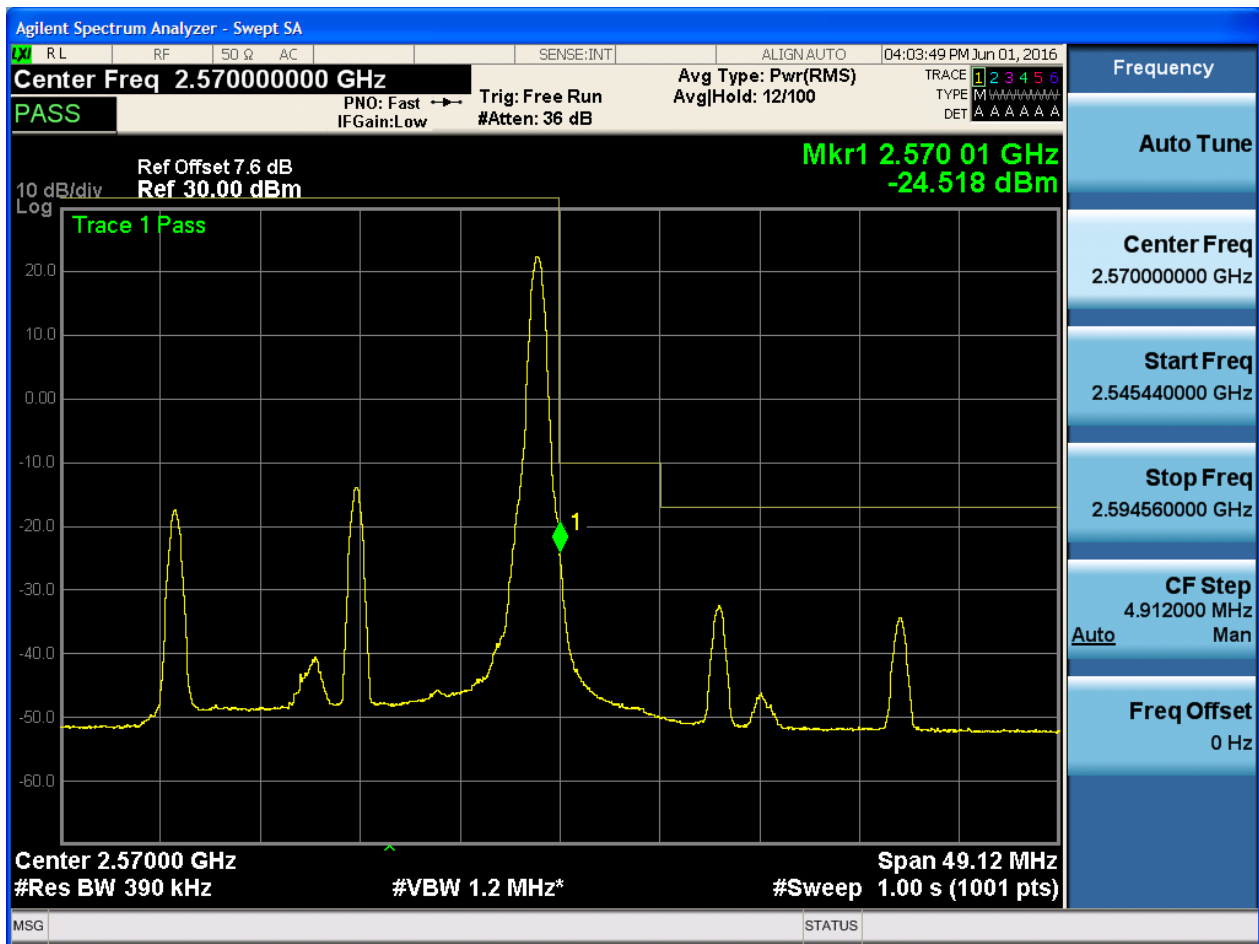
5.1.1.2.4.2 Test Channel = HCH

5.1.1.2.4.2.1 Test RB = RB1#0



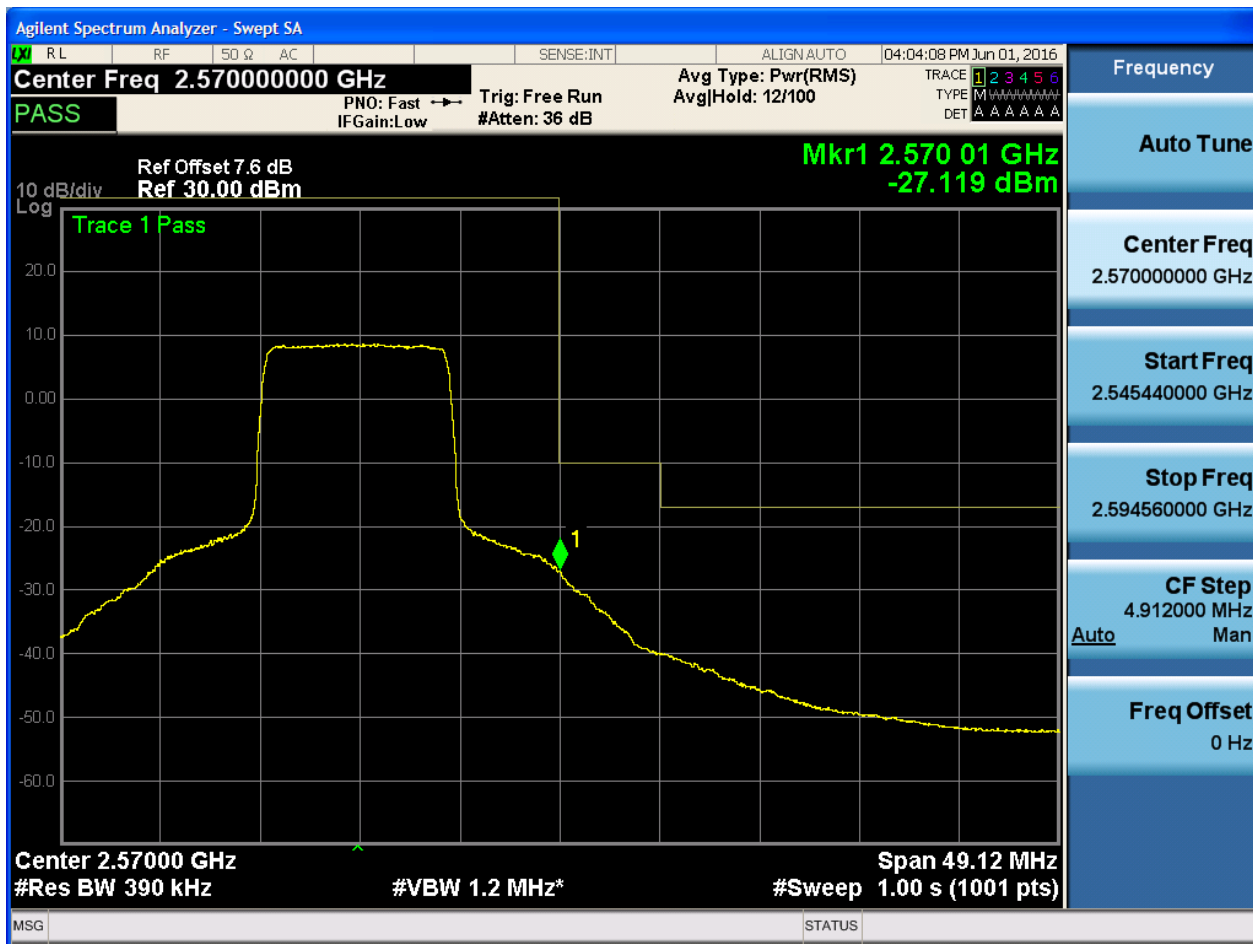


5.1.1.2.4.2.2 Test RB = RB1#99





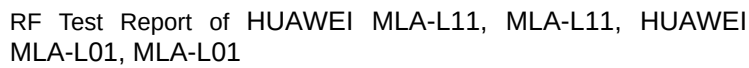
5.1.1.2.4.2.3 Test RB = RB50#25





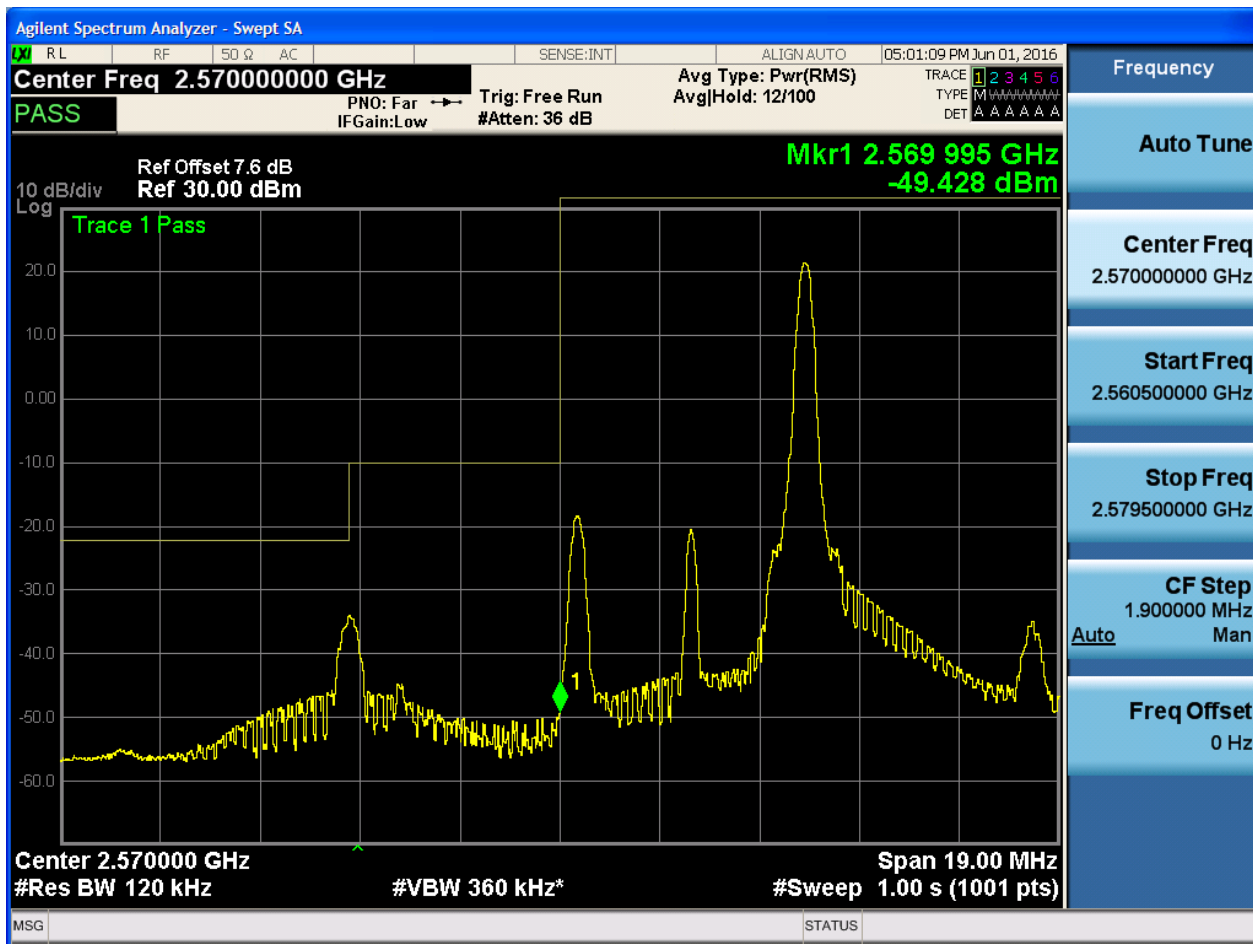
5.1.1.2.4.2.4 Test RB = RB100#0





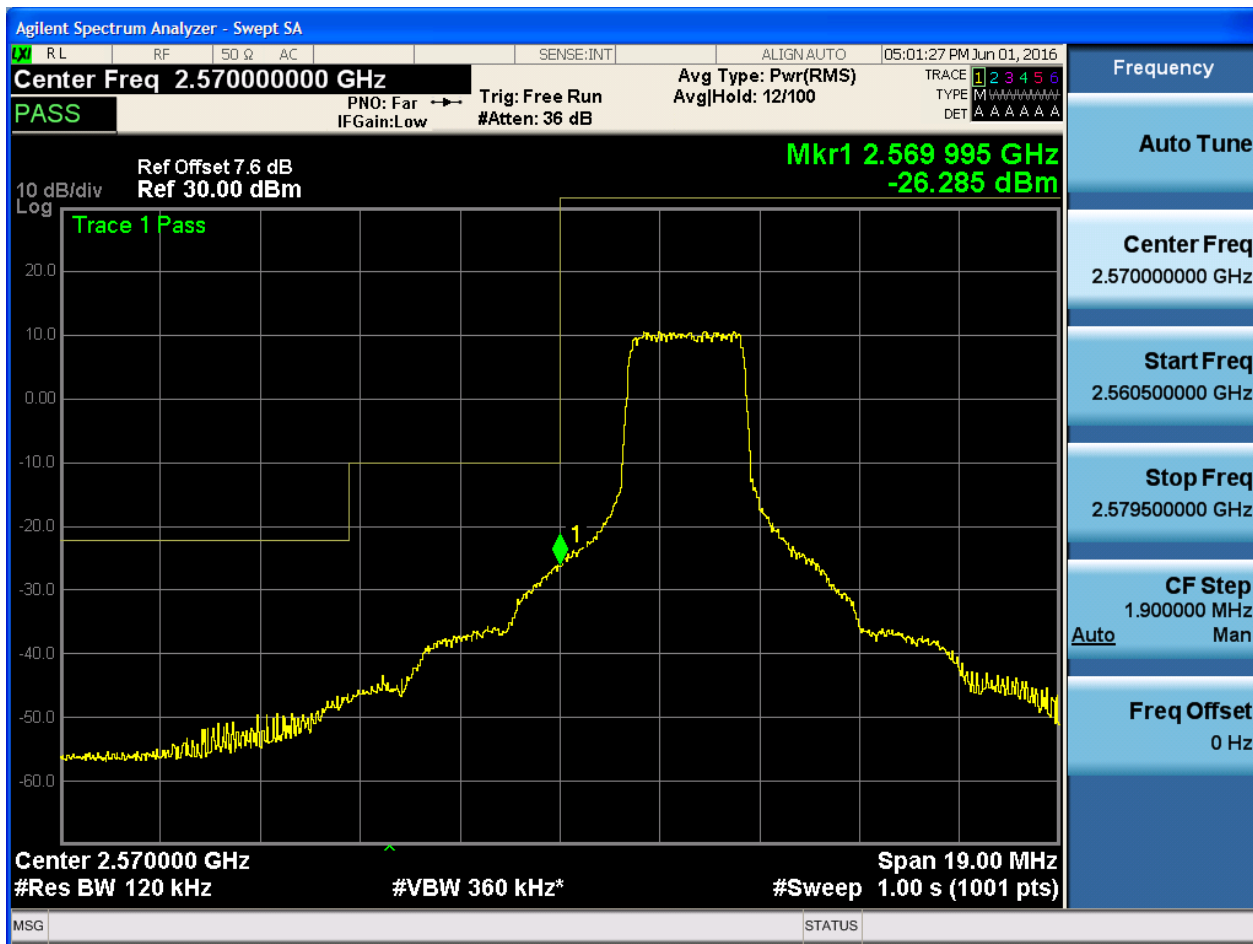


5.1.2.1.1.2 Test RB = RB1#24





5.1.2.1.1.3 Test RB = RB12#6





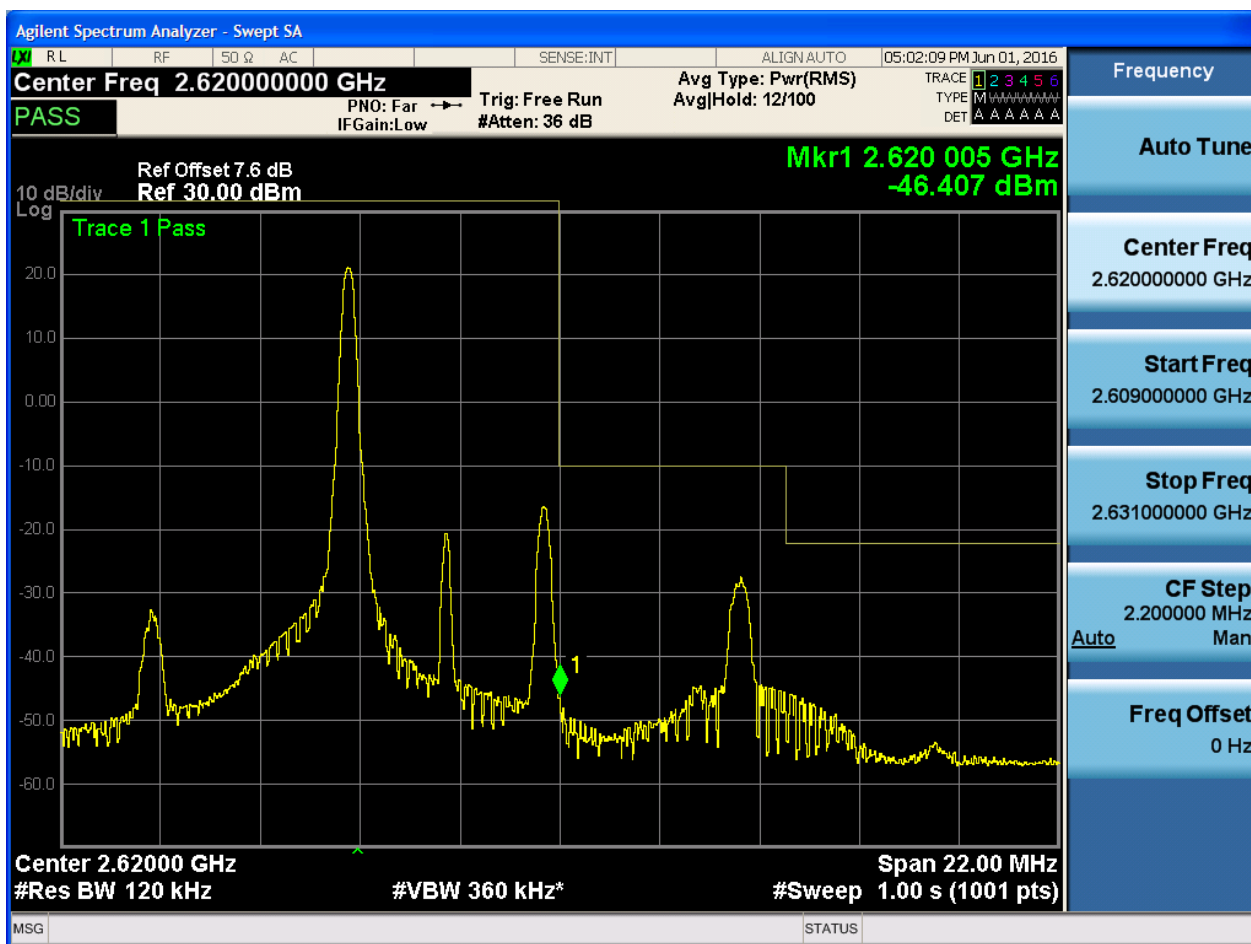
5.1.2.1.1.4 Test RB = RB25#0

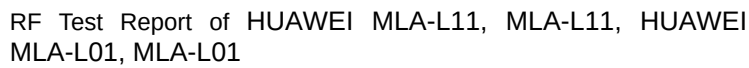




5.1.2.1.1.2 Test Channel = HCH

5.1.2.1.1.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

Center Freq 2.62000000 GHz

Ref Offset 7.6 dB
Ref 30.00 dBm

Trace 1 Pass

Mkr1 2.620 005 GHz
-14.898 dBm

Center 2.62000 GHz
#Res BW 120 kHz
#VBW 360 kHz*

Span 22.00 MHz
#Sweep 1.00 s (1001 pts)

Frequency

Auto Tune

Center Freq
2.62000000 GHz

Start Freq
2.609000000 GHz

Stop Freq
2.631000000 GHz

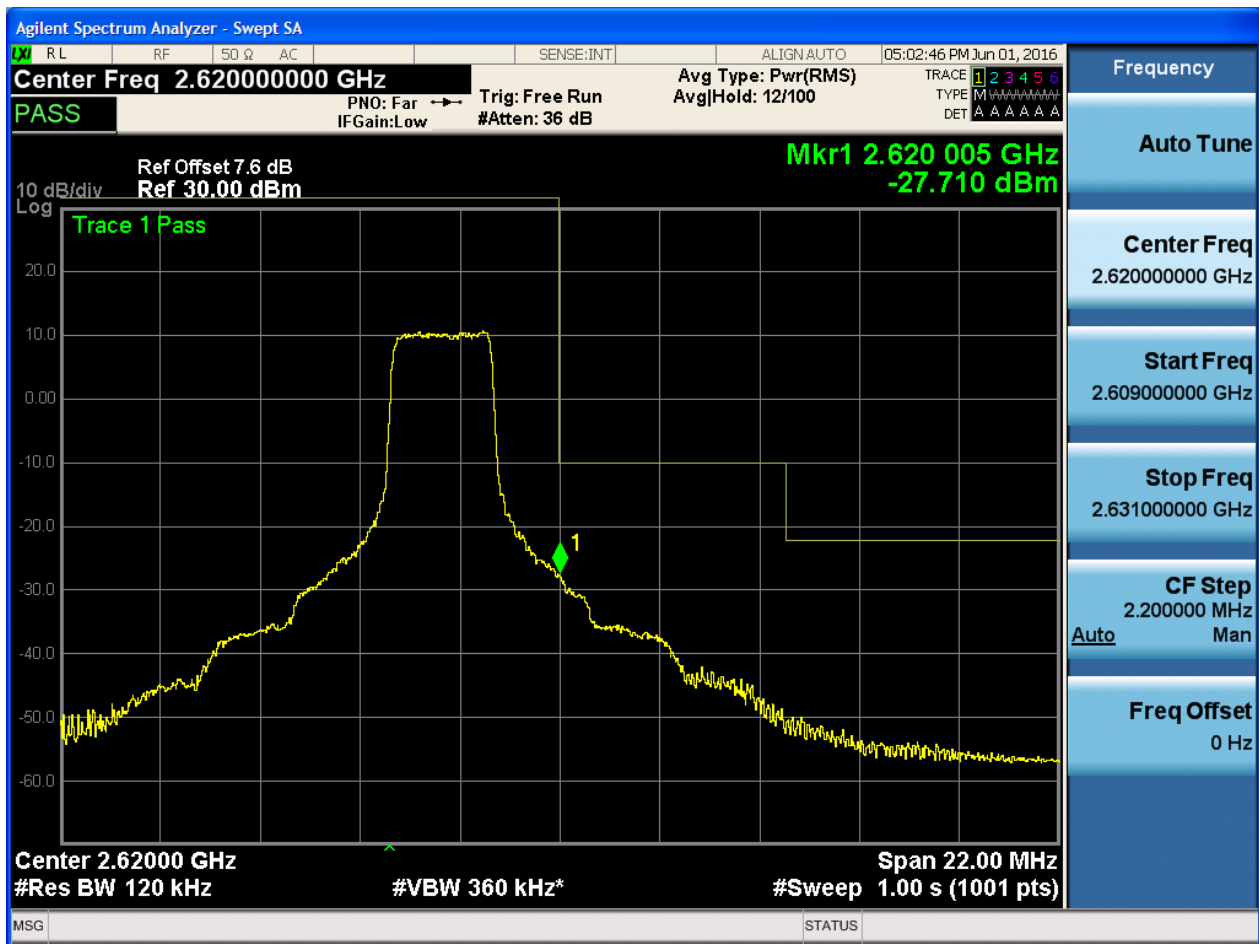
CF Step
2.200000 MHz
Man

Freq Offset
0 Hz

The image shows a screenshot of an Agilent Spectrum Analyzer. The main display area shows a swept spectrum trace in yellow. The trace has a peak at 2.620005 GHz, which is marked with a green diamond and labeled '1'. The peak is at -14.898 dBm. The trace is labeled 'Trace 1 Pass'. The background is black with a grid. The top of the screen shows various settings: Center Freq 2.62000000 GHz, Ref Offset 7.6 dB, Ref 30.00 dBm, Trace 1 Pass, Mkr1 2.620 005 GHz, -14.898 dBm. The bottom of the screen shows: Center 2.62000 GHz, #Res BW 120 kHz, #VBW 360 kHz*, Span 22.00 MHz, #Sweep 1.00 s (1001 pts). On the right side, there is a vertical panel with buttons for Frequency, Auto Tune, Center Freq, Start Freq, Stop Freq, CF Step, and Freq Offset.



5.1.2.1.1.2.3 Test RB = RB12#6





5.1.2.1.1.2.4 Test RB = RB25#0

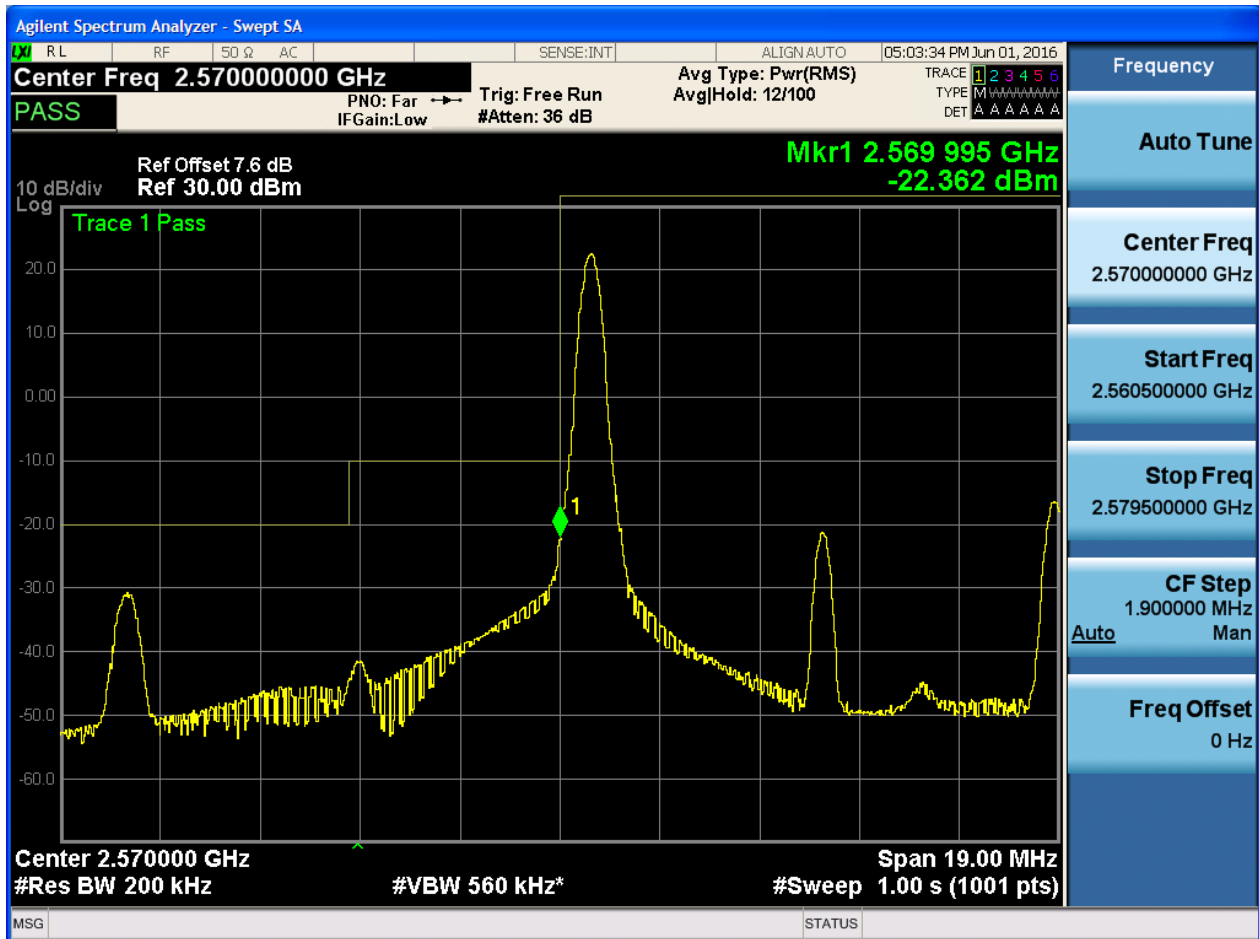




5.1.2.1.2 Test Bandwidth = 10

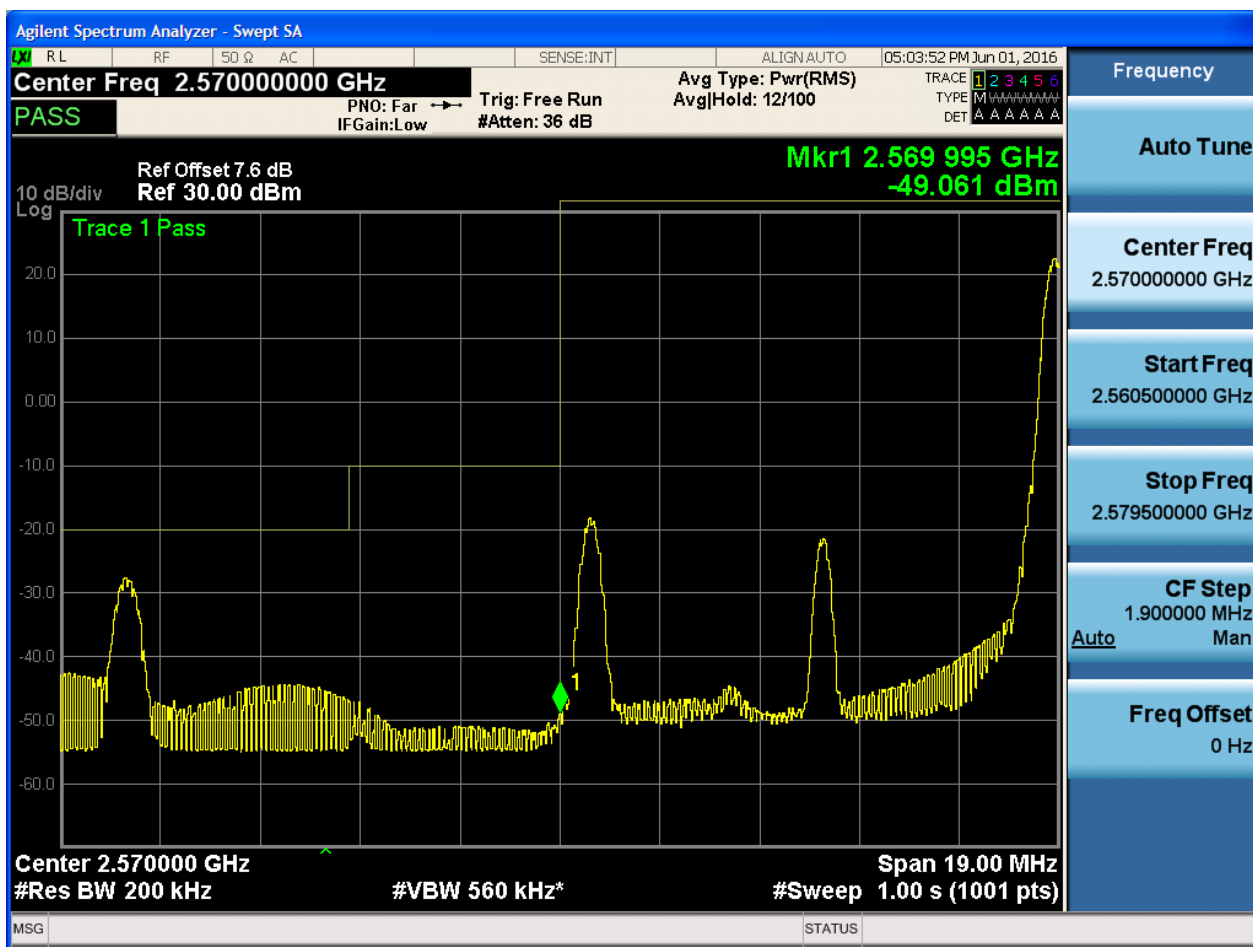
5.1.2.1.2.1 Test Channel = LCH

5.1.2.1.2.1.1 Test RB = RB1#0



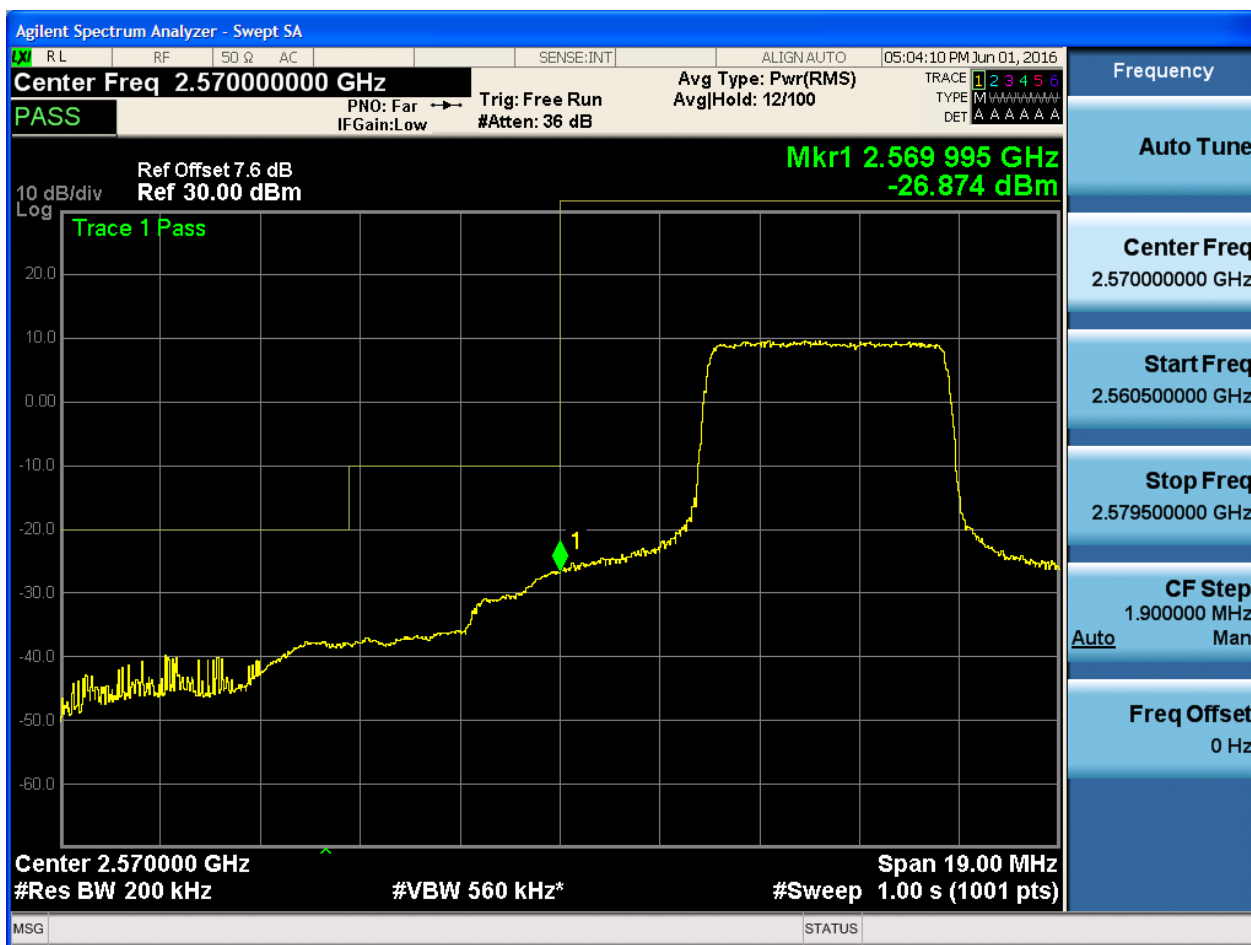


5.1.2.1.2.1.2 Test RB = RB1#49



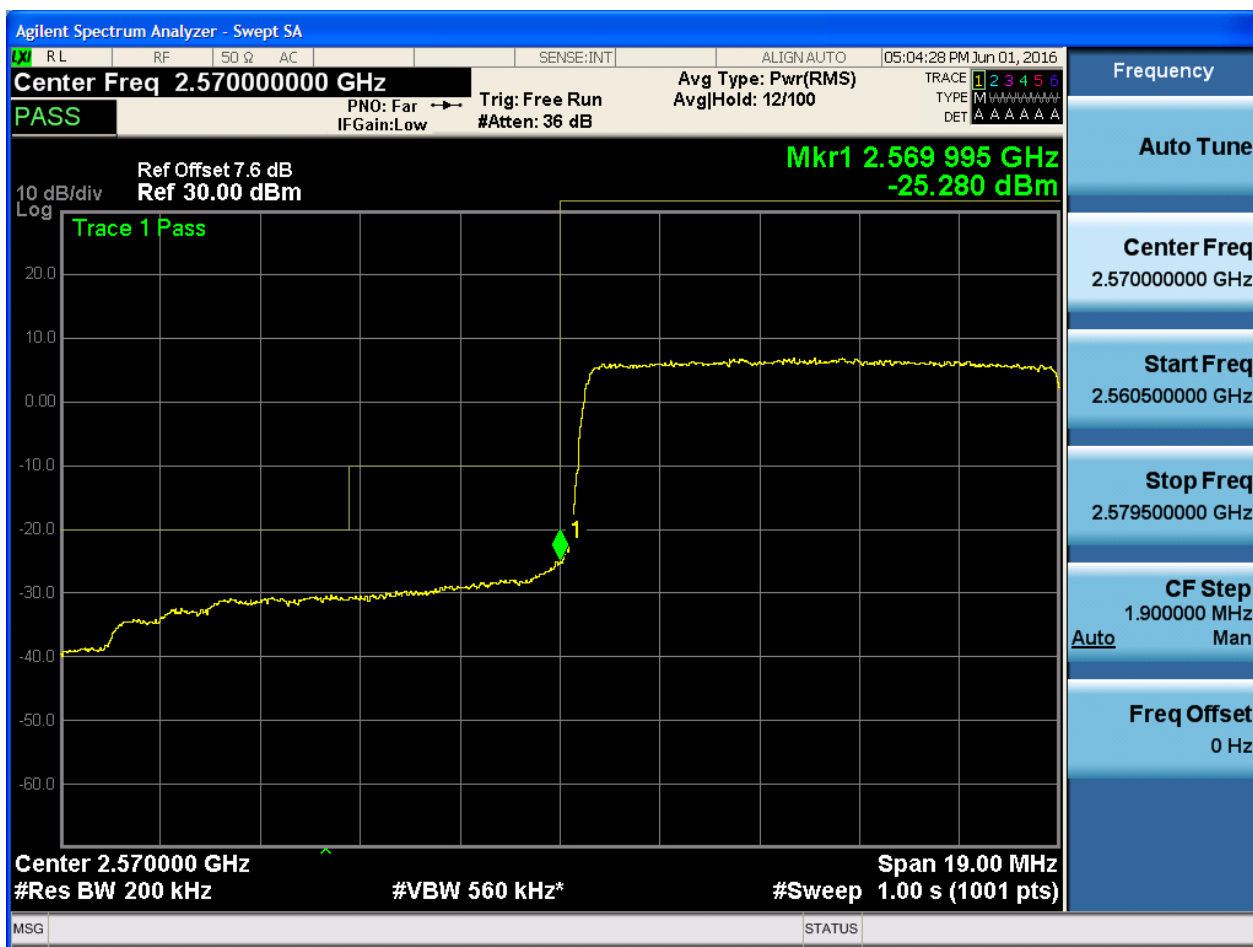


5.1.2.1.2.1.3 Test RB = RB25#13





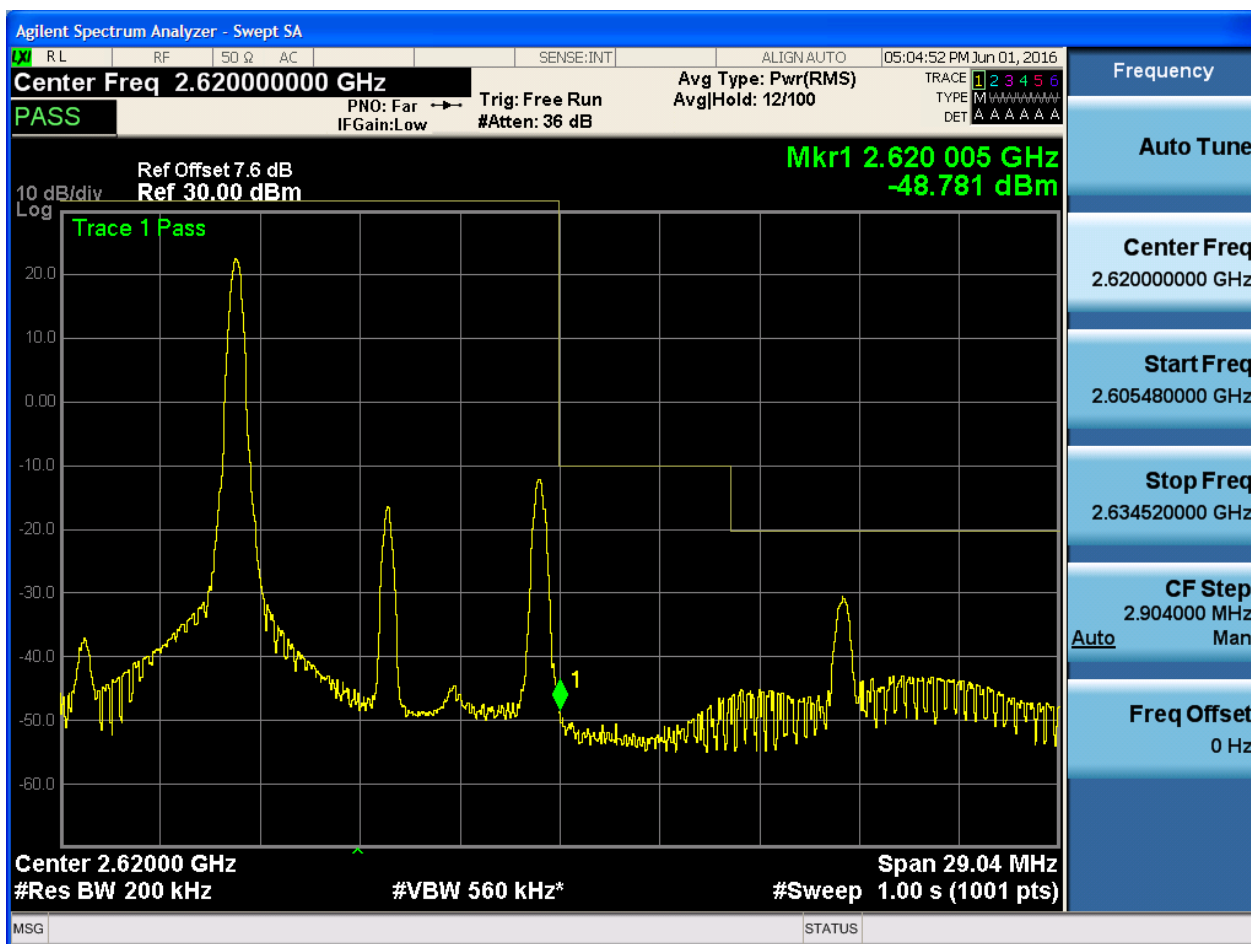
5.1.2.1.2.1.4 Test RB = RB50#0





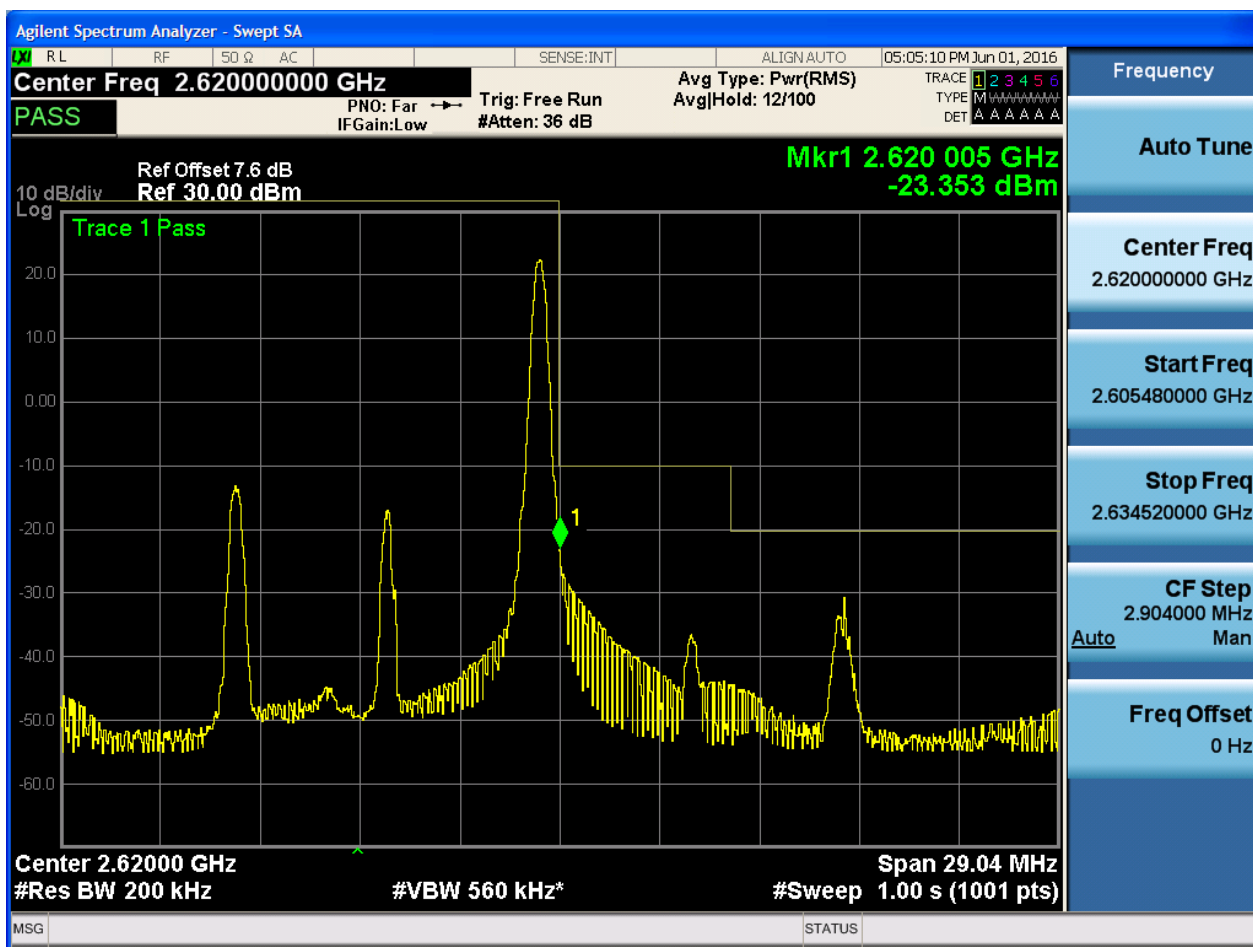
5.1.2.1.2.2 Test Channel = HCH

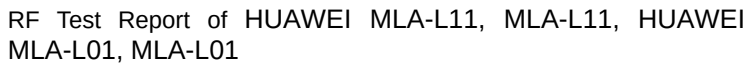
5.1.2.1.2.2.1 Test RB = RB1#0





5.1.2.1.2.2.2 Test RB = RB1#49





Agilent Spectrum Analyzer - Swept SA

Center Freq 2.62000000 GHz

Ref Offset 7.6 dB
Ref 30.00 dBm

Mkr1 2.620 005 GHz
-28.302 dBm

Trace 1 Pass

Center 2.6200 GHz
#Res BW 200 kHz
#VBW 560 kHz*

Span 29.04 MHz
#Sweep 1.00 s (1001 pts)

Frequency

Auto Tune

Center Freq
2.62000000 GHz

Start Freq
2.605480000 GHz

Stop Freq
2.634520000 GHz

CF Step
2.904000 MHz
Man

Auto

Freq Offset
0 Hz



5.1.2.1.2.2.4 Test RB = RB50#0

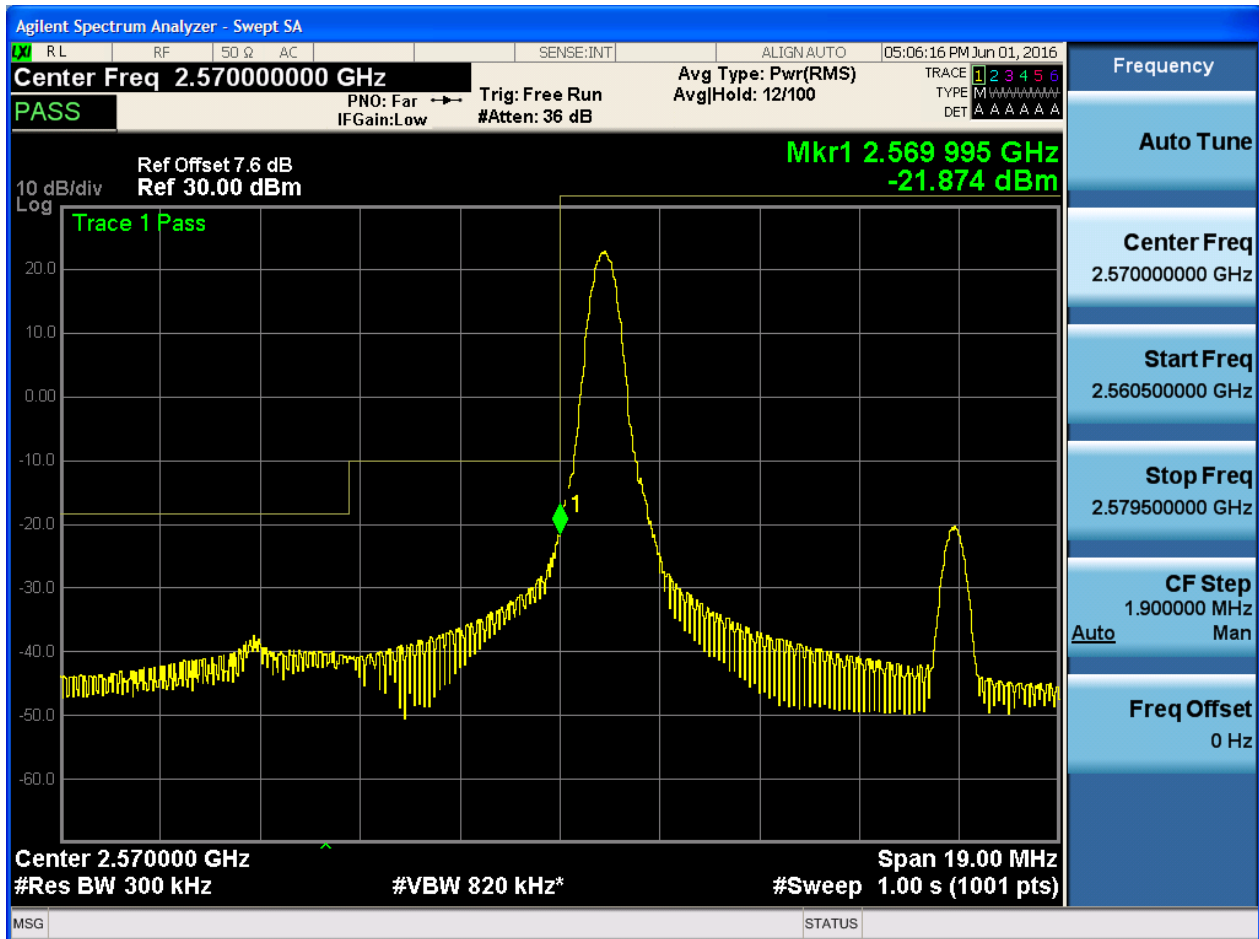




5.1.2.1.3 Test Bandwidth = 15

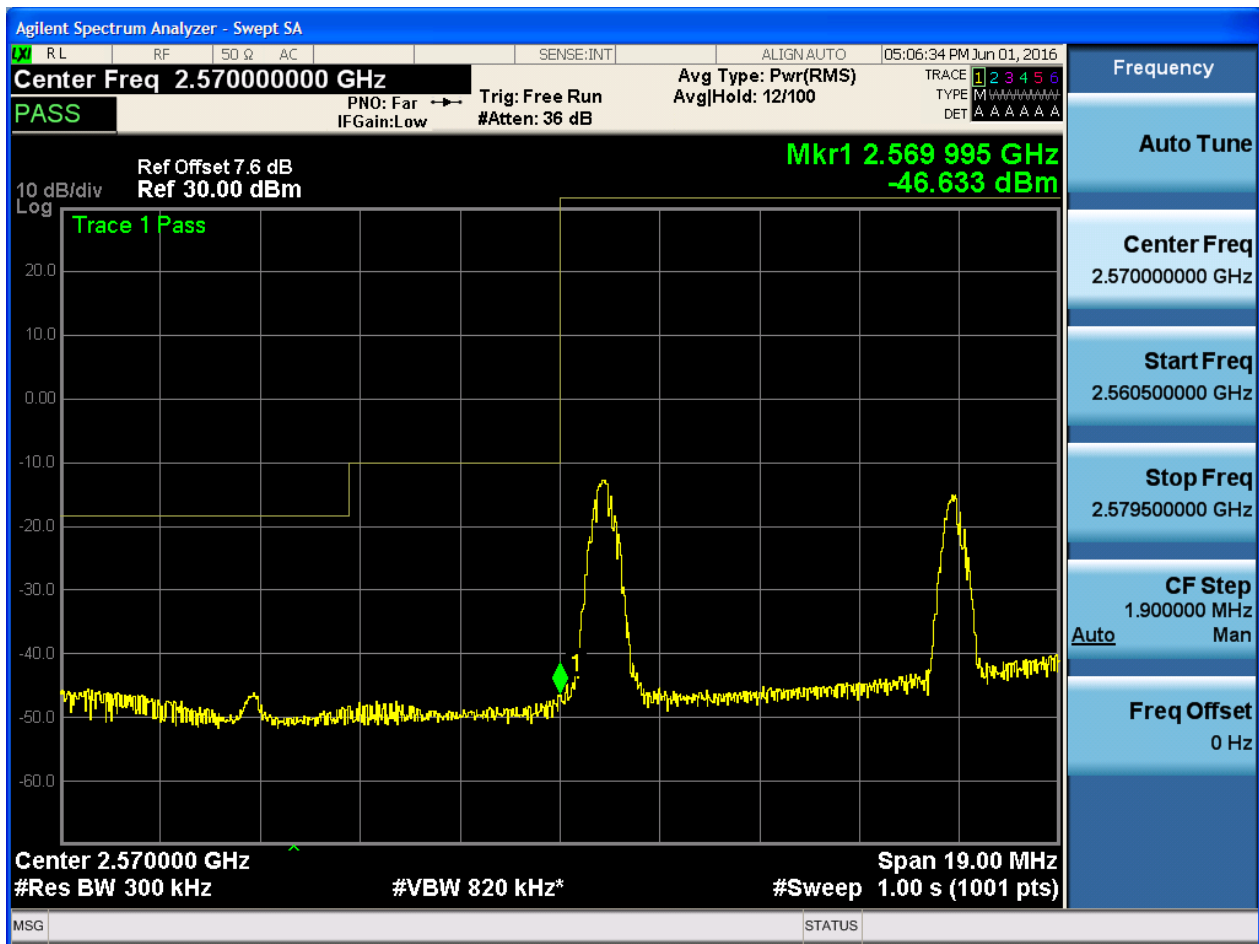
5.1.2.1.3.1 Test Channel = LCH

5.1.2.1.3.1.1 Test RB = RB1#0





5.1.2.1.3.1.2 Test RB = RB1#74





5.1.2.1.3.1.3 Test RB = RB36#18





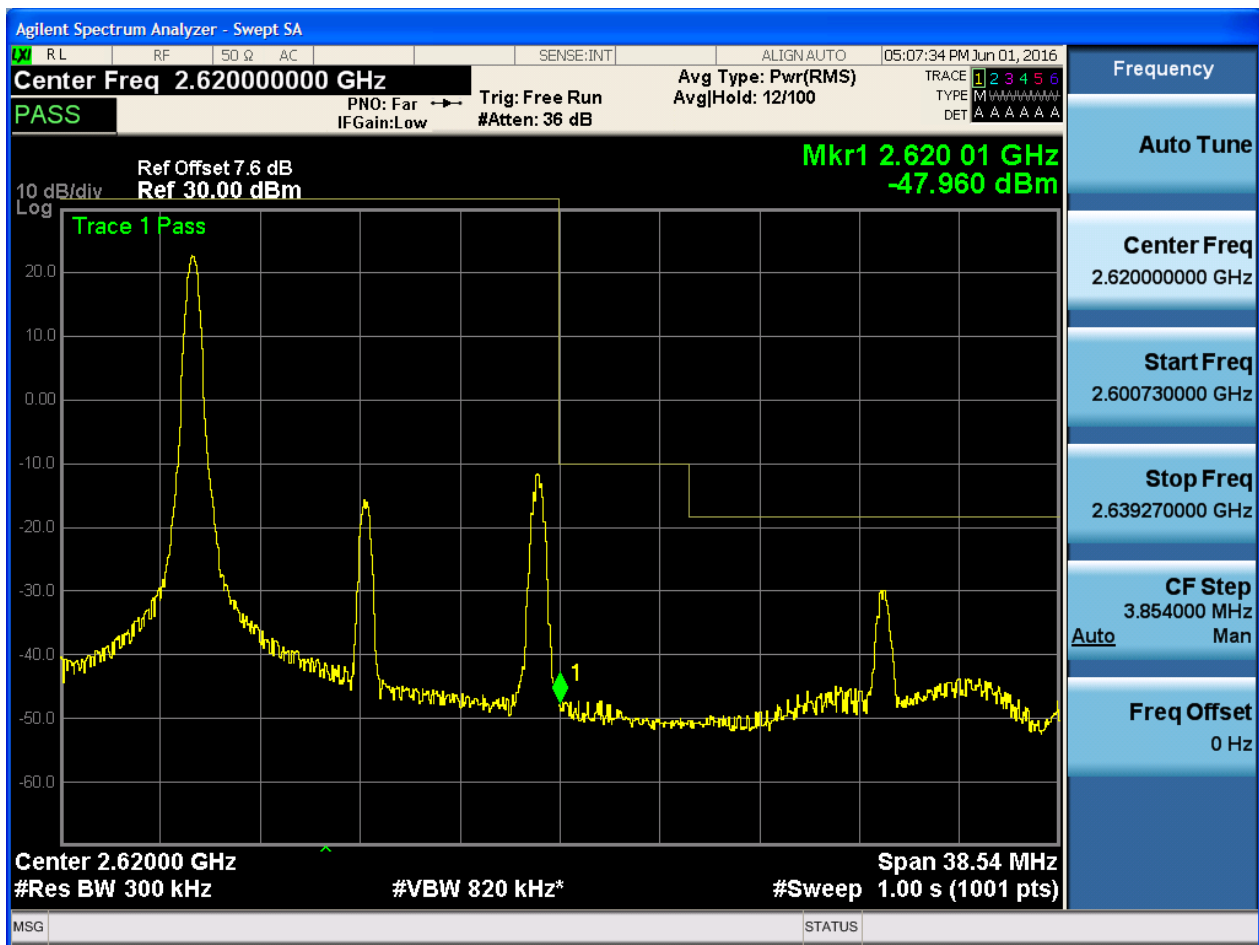
5.1.2.1.3.1.4 Test RB = RB75#0





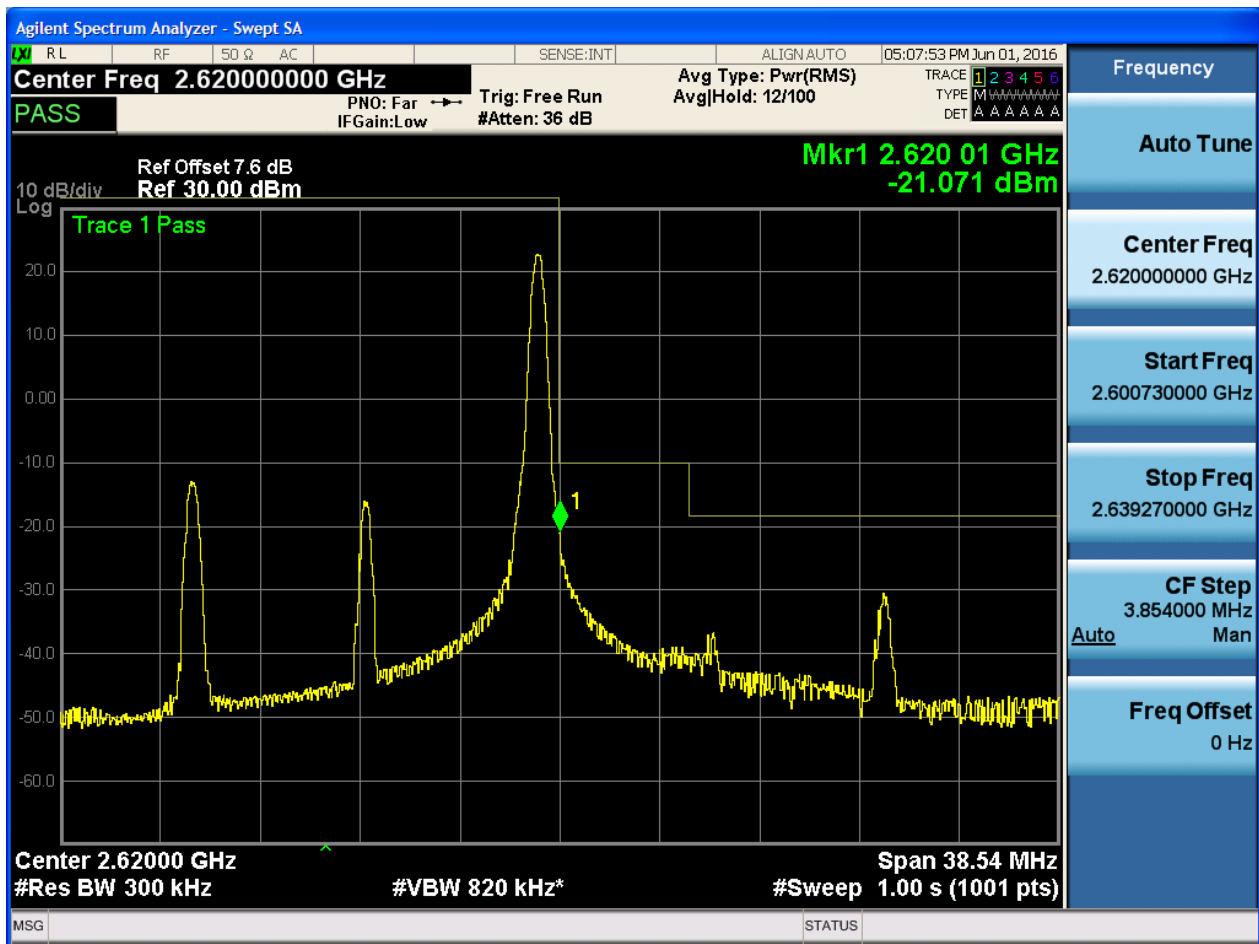
5.1.2.1.3.2 Test Channel = HCH

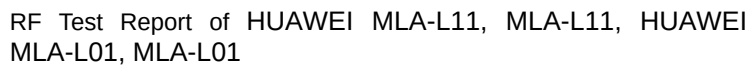
5.1.2.1.3.2.1 Test RB = RB1#0





5.1.2.1.3.2.2 Test RB = RB1#74





Agilent Spectrum Analyzer - Swept SA

Center Freq 2.620000000 GHz

Ref Offset 7.6 dB
Ref 30.00 dBm

Trace 1 Pass

10 dB/div
Log

Trace 1 Pass

Mkr1 2.620 01 GHz
-29.140 dBm

Center 2.62000 GHz
#Res BW 300 kHz

#VBW 820 kHz*

Span 38.54 MHz
#Sweep 1.00 s (1001 pts)

Frequency

Auto Tune

Center Freq
2.620000000 GHz

Start Freq
2.600730000 GHz

Stop Freq
2.639270000 GHz

CF Step
3.854000 MHz
Man

Auto

Freq Offset
0 Hz



5.1.2.1.3.2.4 Test RB = RB75#0

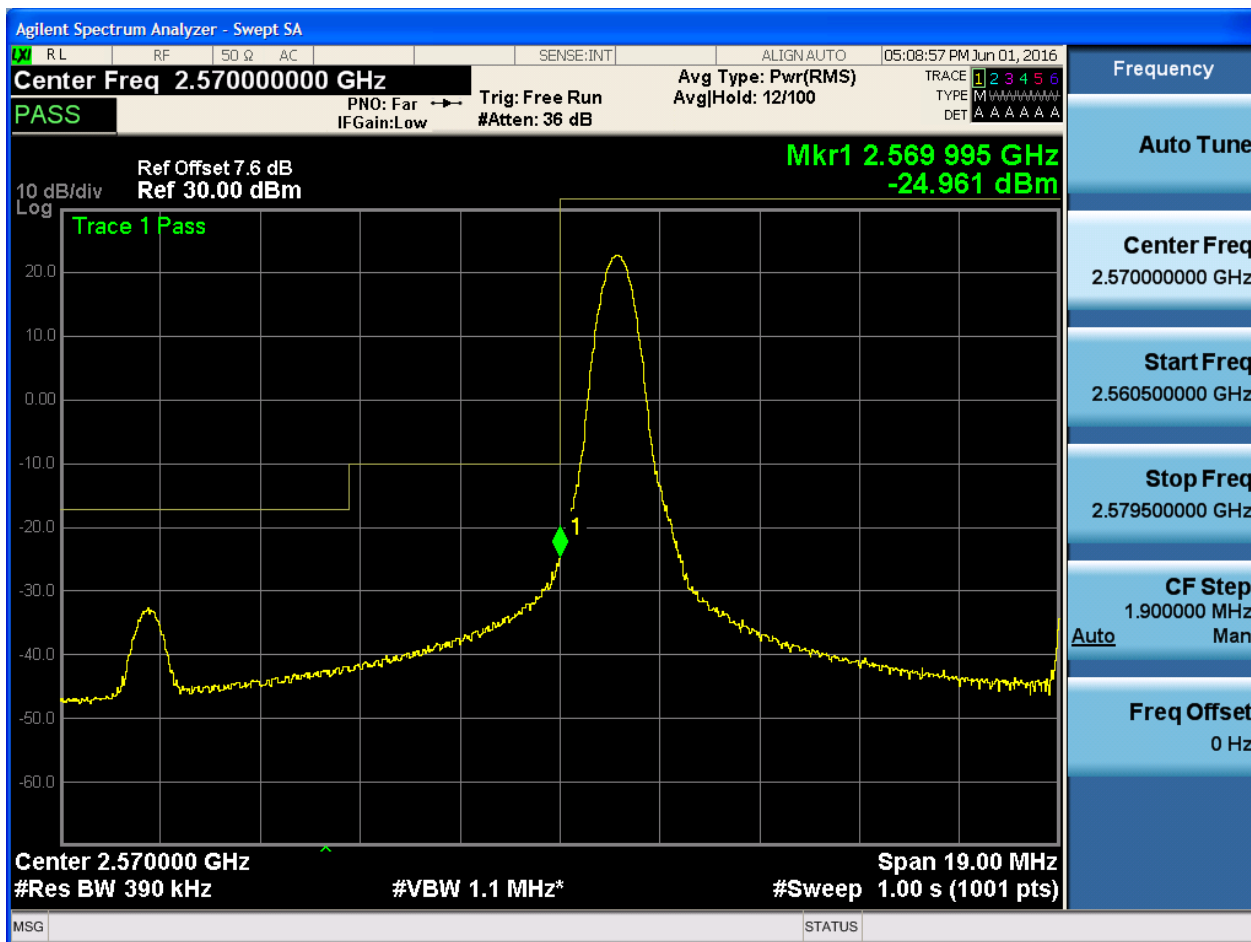




5.1.2.1.4 Test Bandwidth = 20

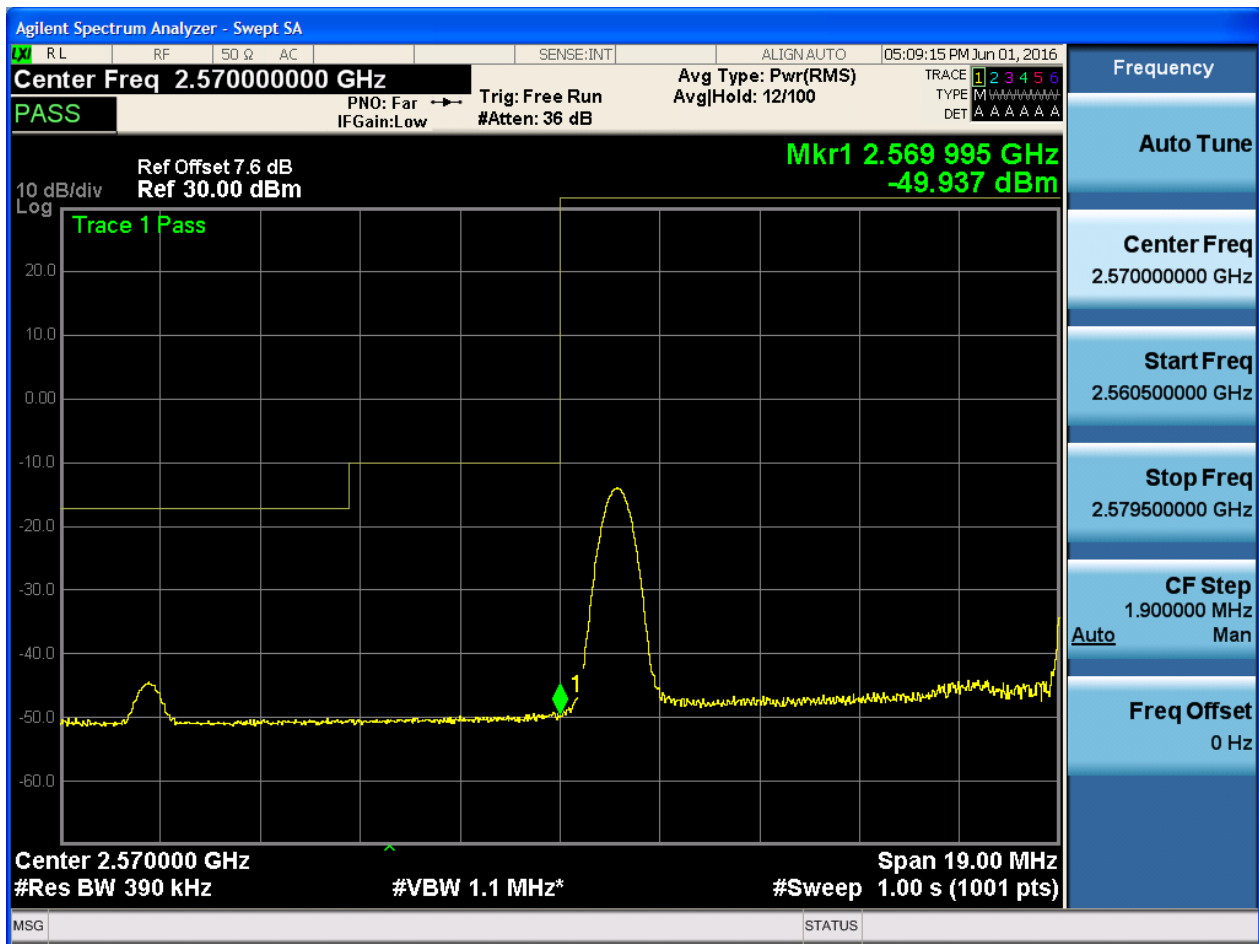
5.1.2.1.4.1 Test Channel = LCH

5.1.2.1.4.1.1 Test RB = RB1#0





5.1.2.1.4.1.2 Test RB = RB1#99



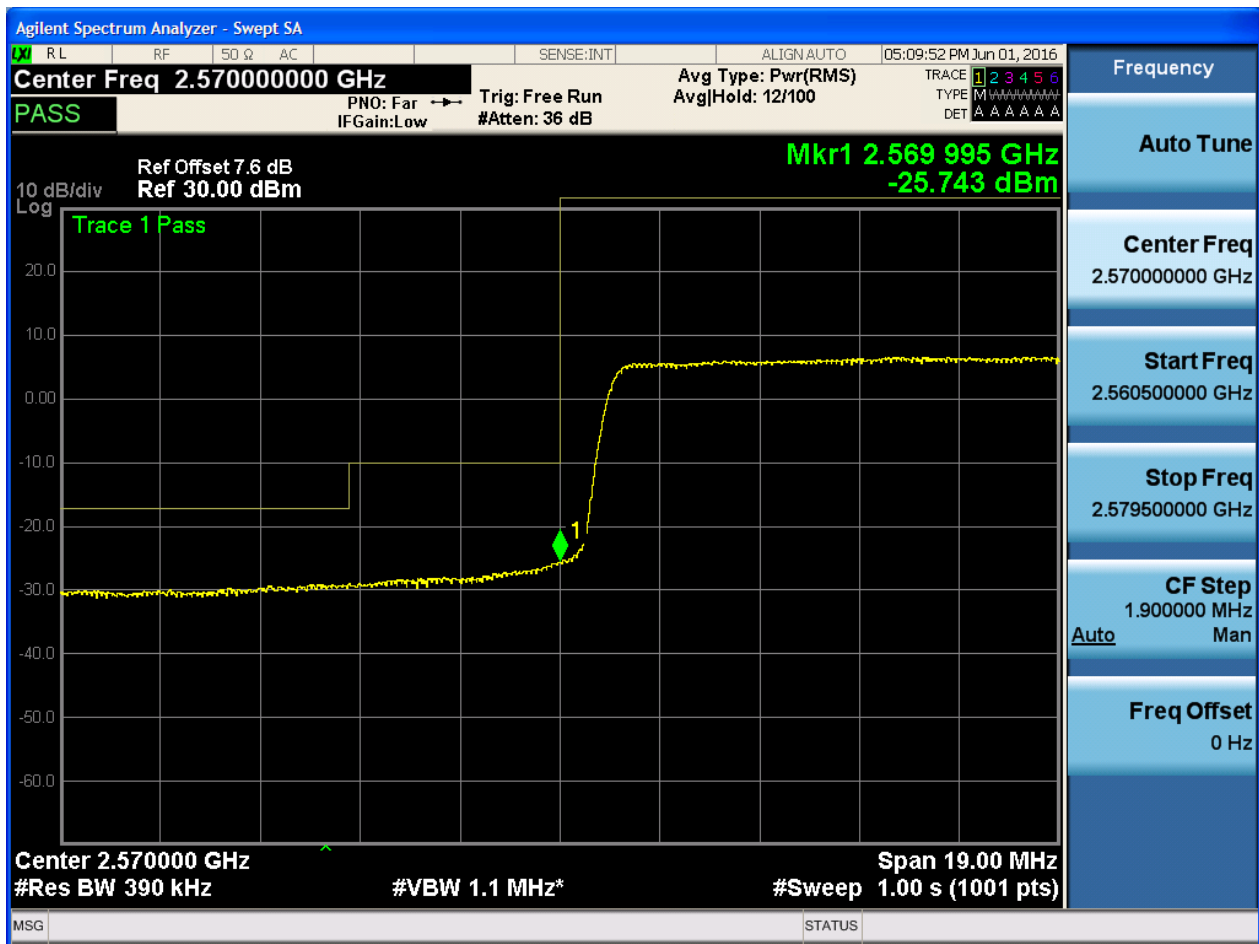


5.1.2.1.4.1.3 Test RB = RB50#25





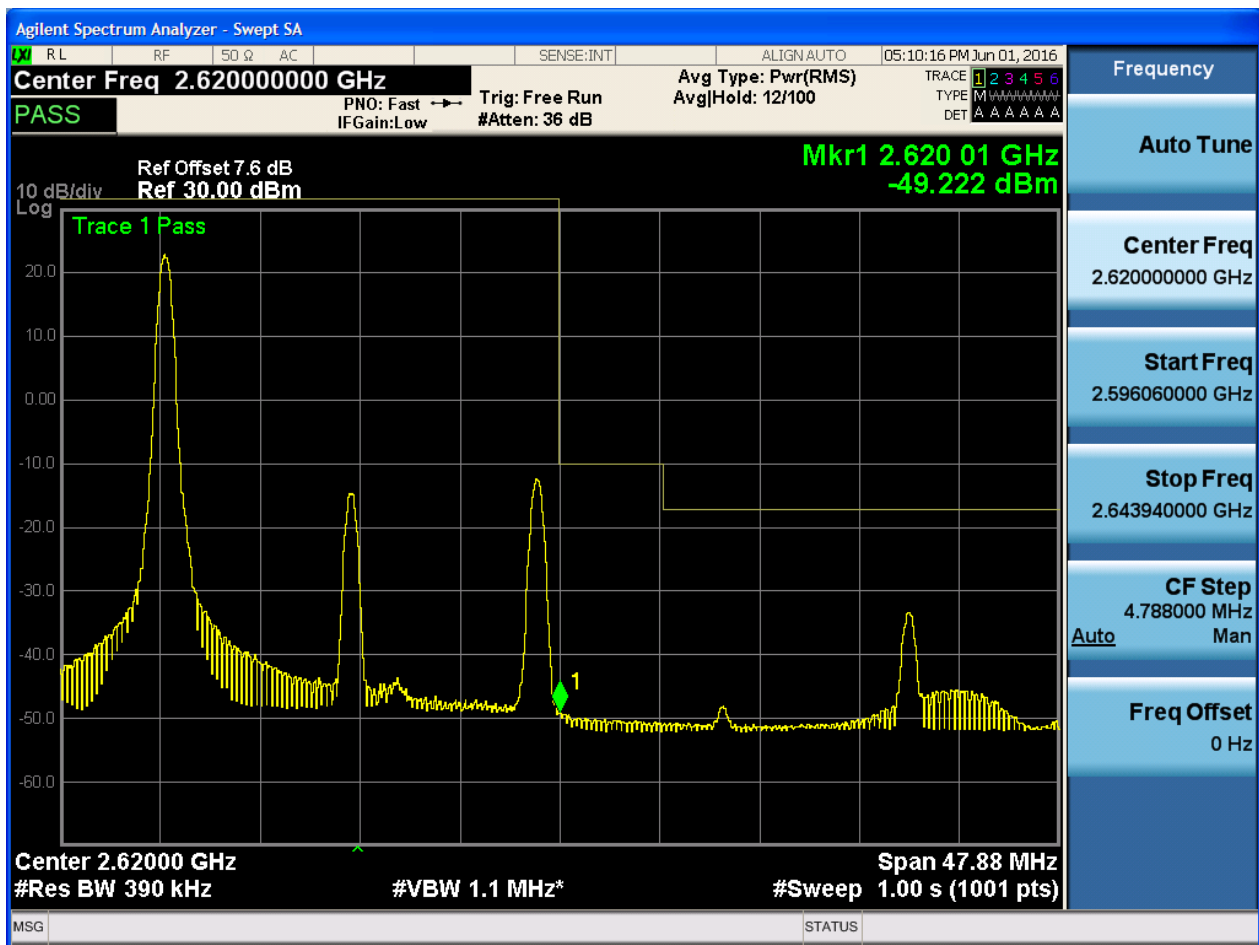
5.1.2.1.4.1.4 Test RB = RB100#0





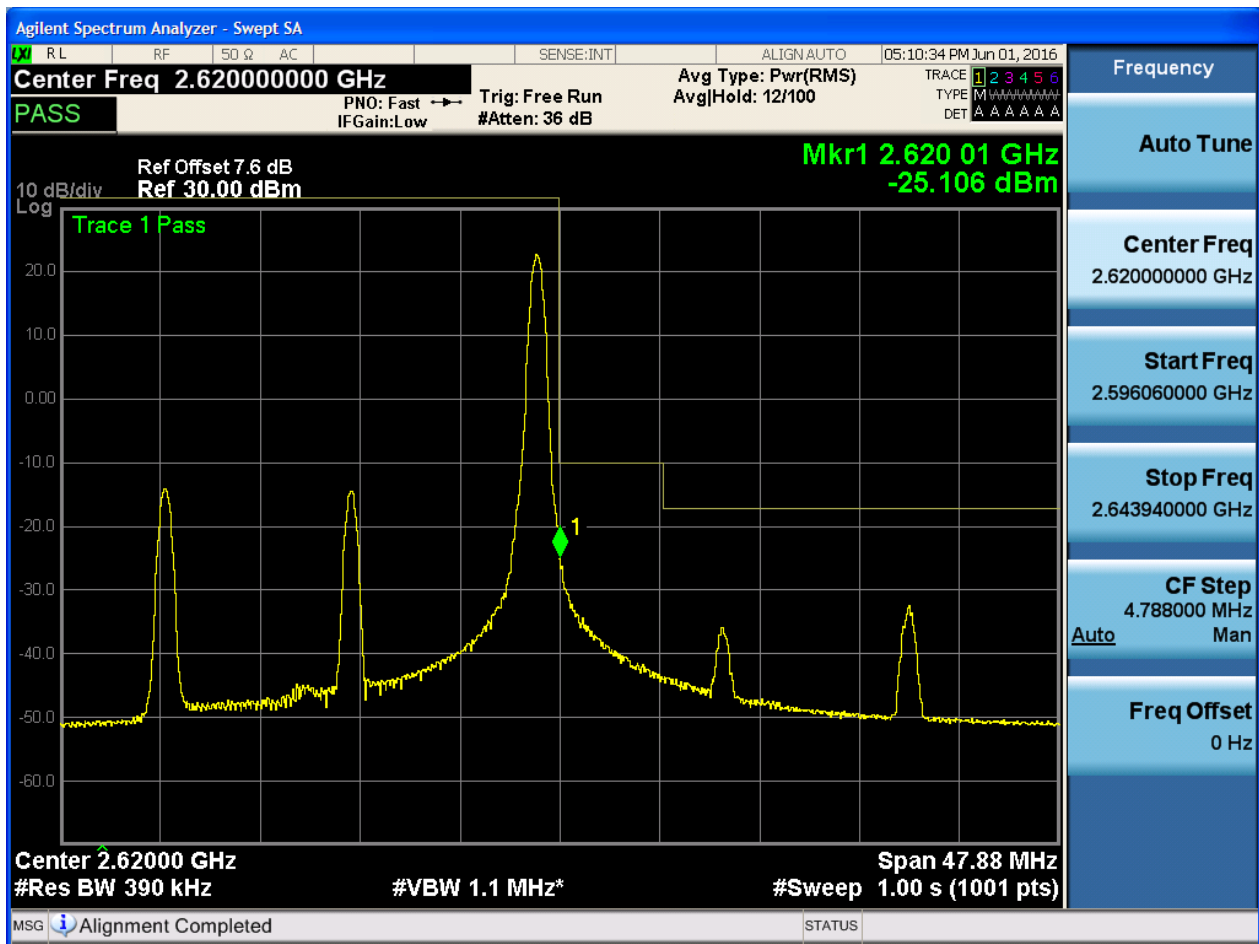
5.1.2.1.4.2 Test Channel = HCH

5.1.2.1.4.2.1 Test RB = RB1#0





5.1.2.1.4.2.2 Test RB = RB1#99





5.1.2.1.4.2.3 Test RB = RB50#25





5.1.2.1.4.2.4 Test RB = RB100#0



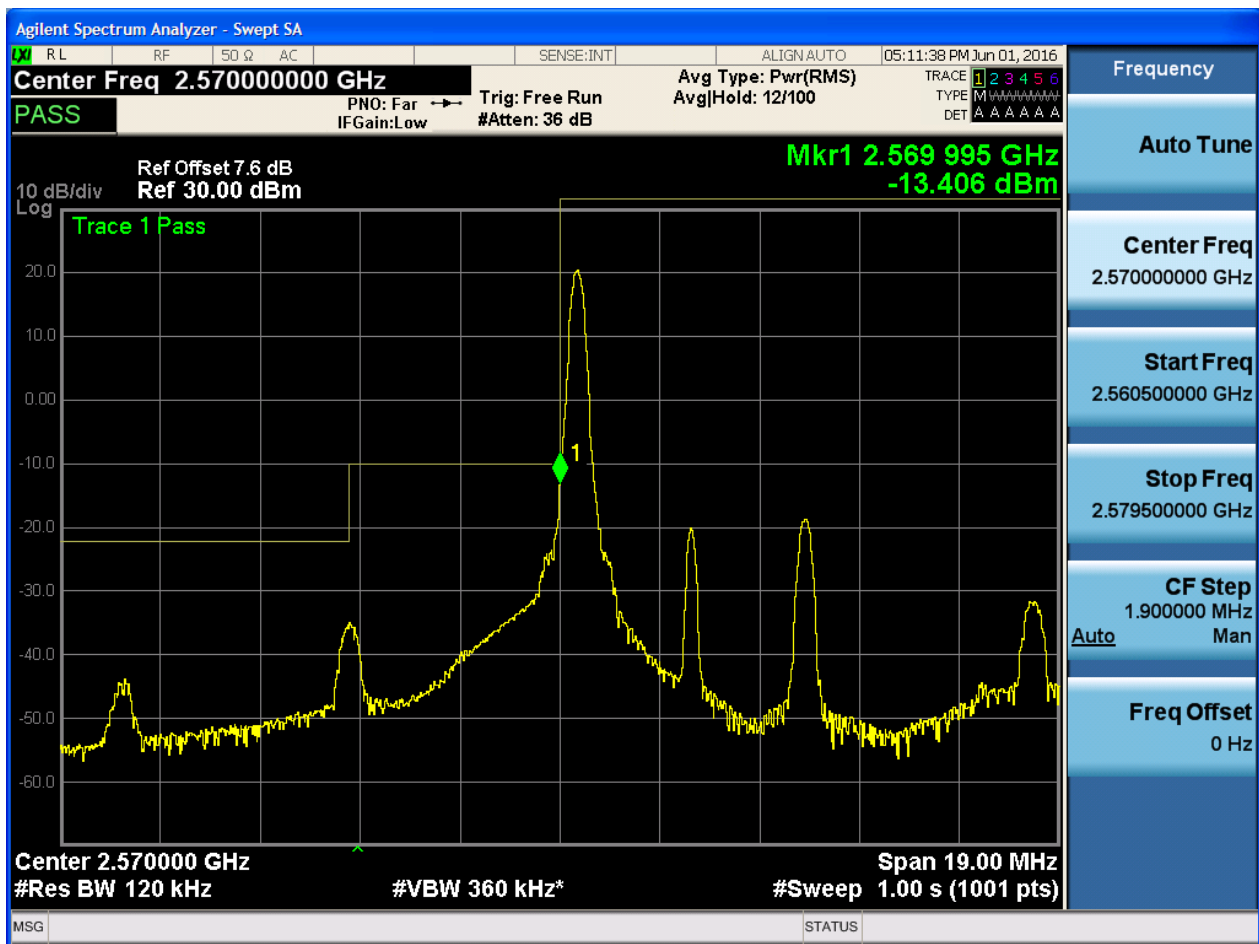


5.1.2.2 Test Mode = LTE/TM2

5.1.2.2.1 Test Bandwidth = 5

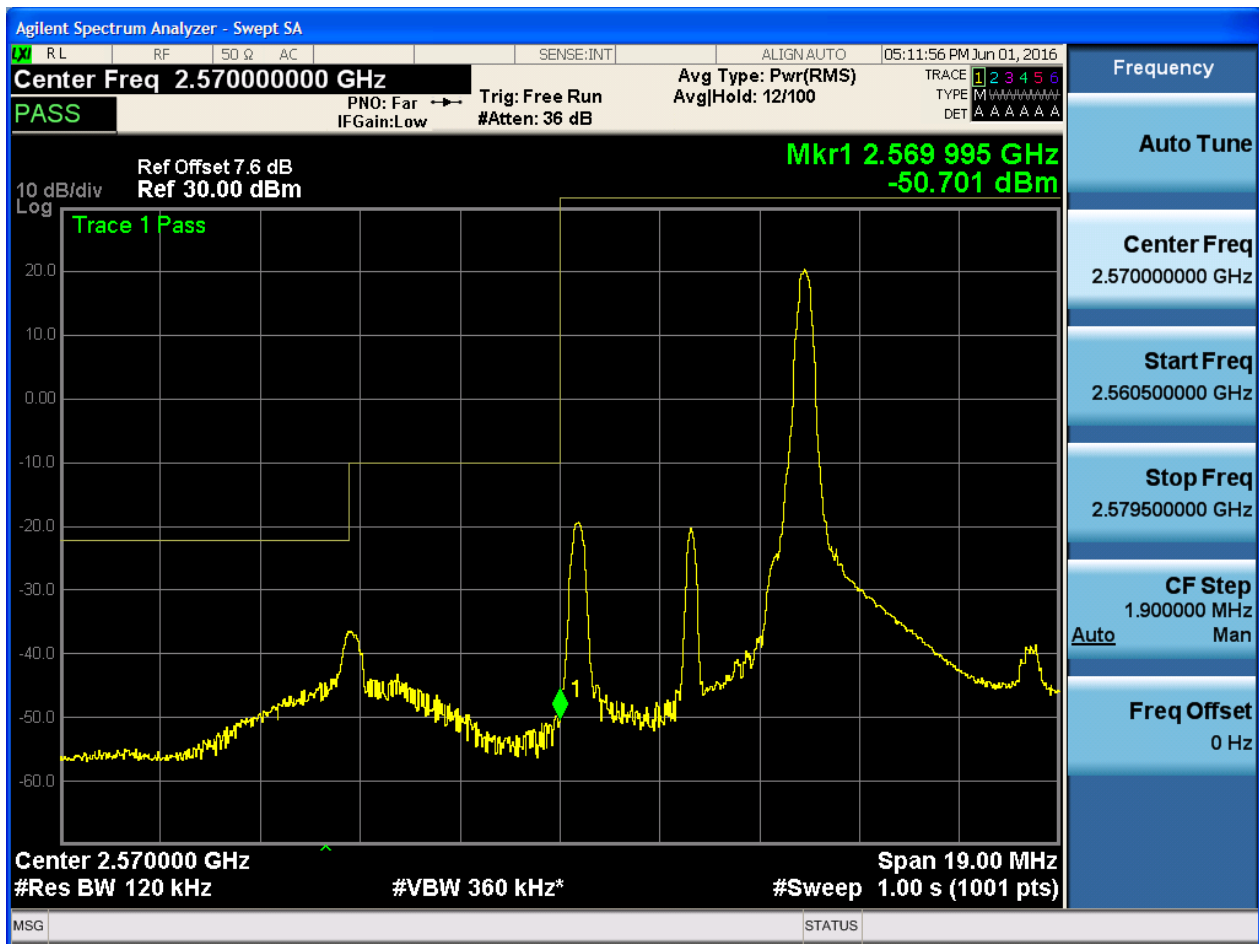
5.1.2.2.1.1 Test Channel = LCH

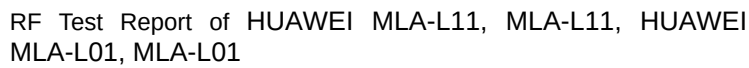
5.1.2.2.1.1.1 Test RB = RB1#0





5.1.2.2.1.1.2 Test RB = RB1#24





Agilent Spectrum Analyzer - Swept SA

Center Freq 2.570000000 GHz

PASS

Ref Offset 7.6 dB
Ref 30.00 dBm

Mkr1 2.569 995 GHz
-26.976 dBm

Trace 1 Pass

Center 2.570000 GHz
#Res BW 120 kHz
#VBW 360 kHz*
Span 19.00 MHz
#Sweep 1.00 s (1001 pts)

Frequency

Auto Tune

Center Freq
2.570000000 GHz

Start Freq
2.565000000 GHz

Stop Freq
2.579500000 GHz

CF Step
1.900000 MHz
Auto Man

Freq Offset
0 Hz



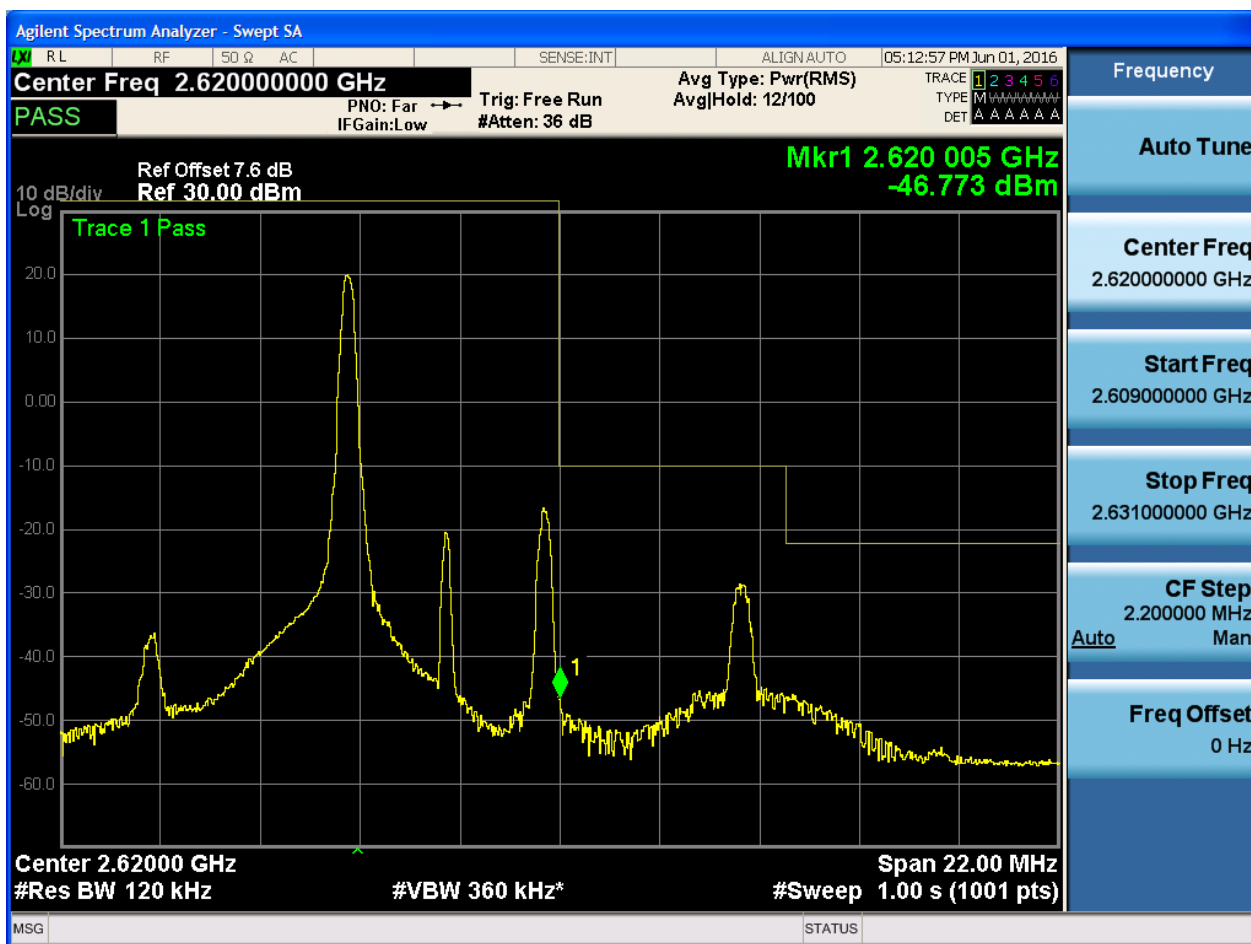
5.1.2.2.1.1.4 Test RB = RB25#0





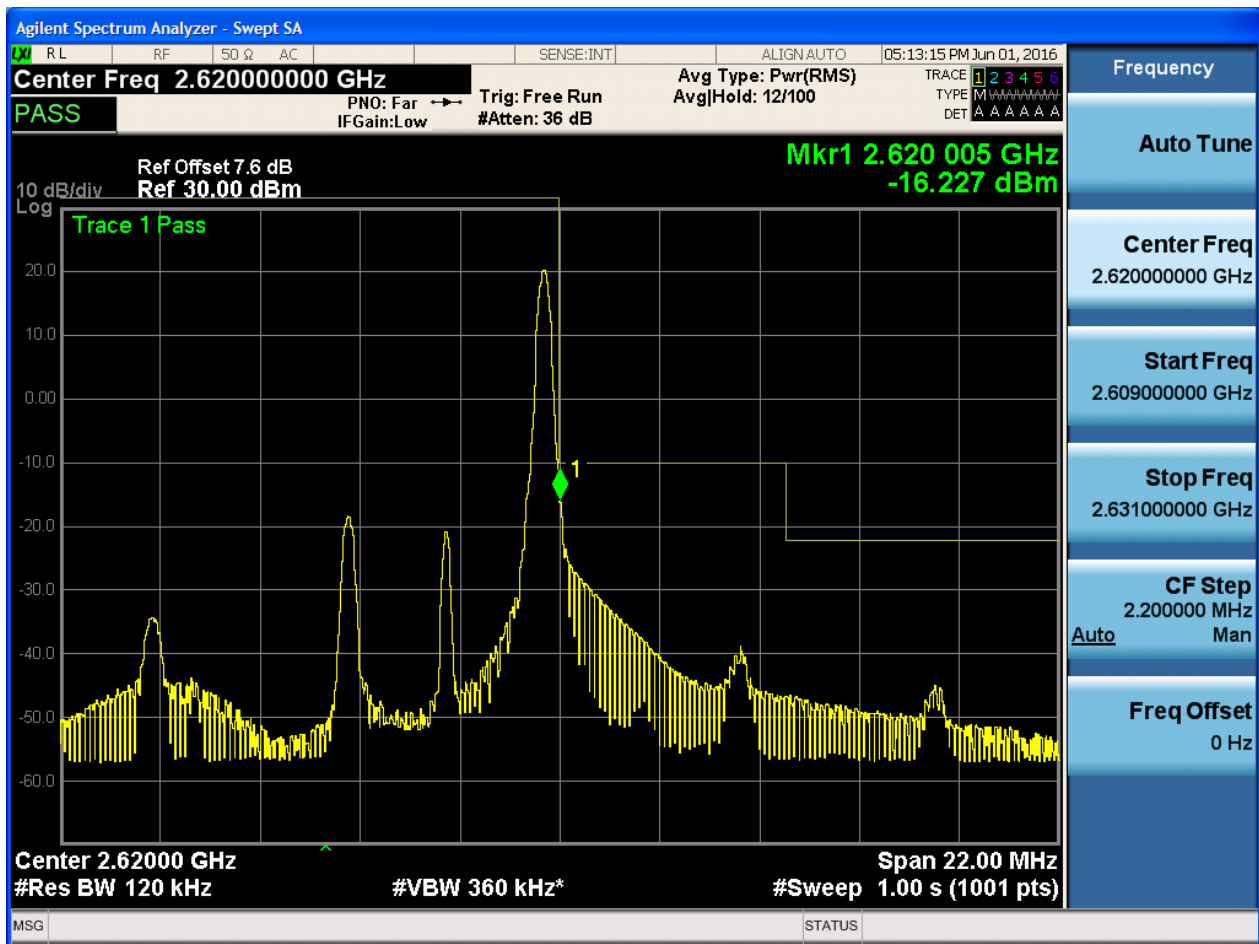
5.1.2.2.1.2 Test Channel = HCH

5.1.2.2.1.2.1 Test RB = RB1#0



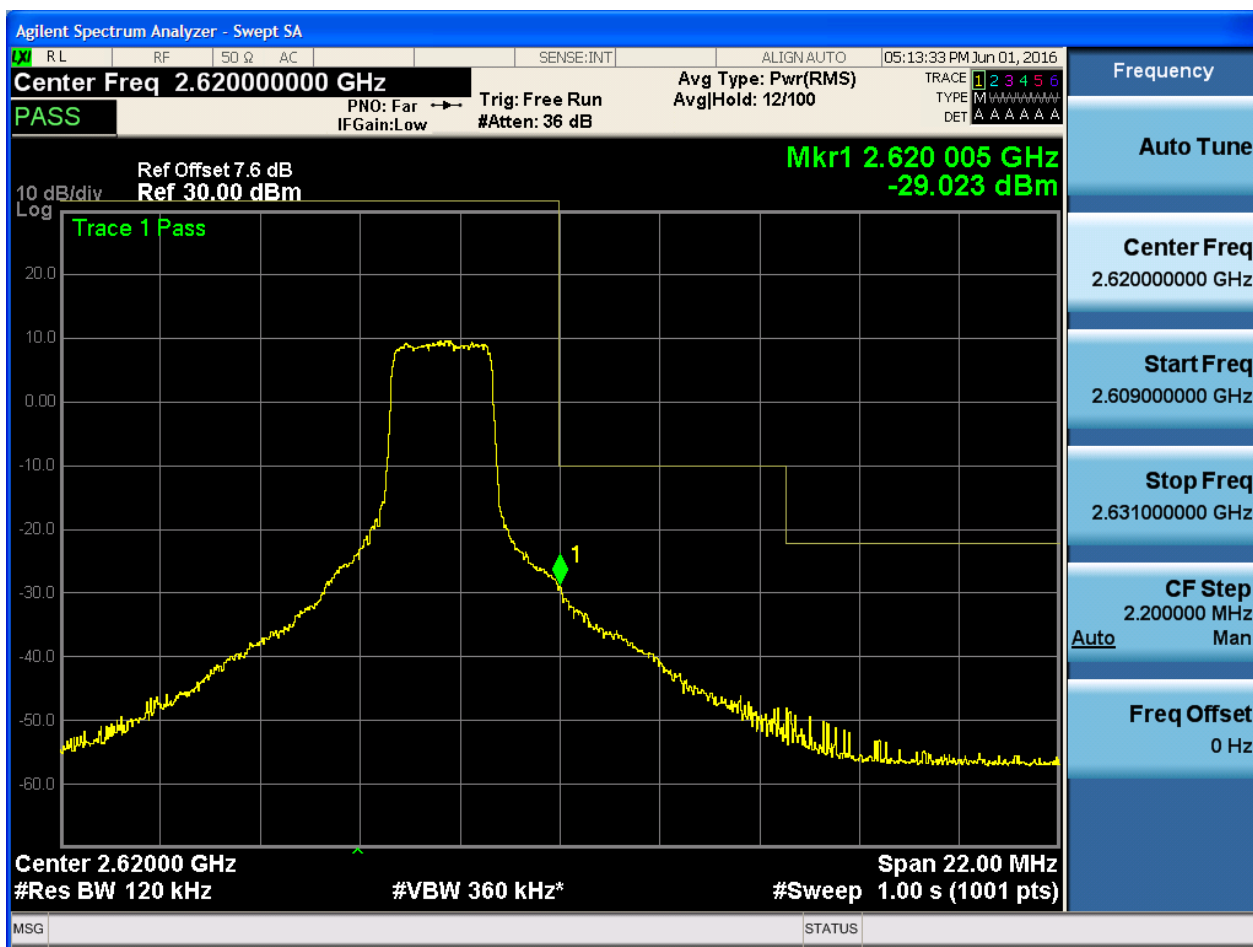


5.1.2.2.1.2.2 Test RB = RB1#24





5.1.2.2.1.2.3 Test RB = RB12#6





5.1.2.2.1.2.4 Test RB = RB25#0

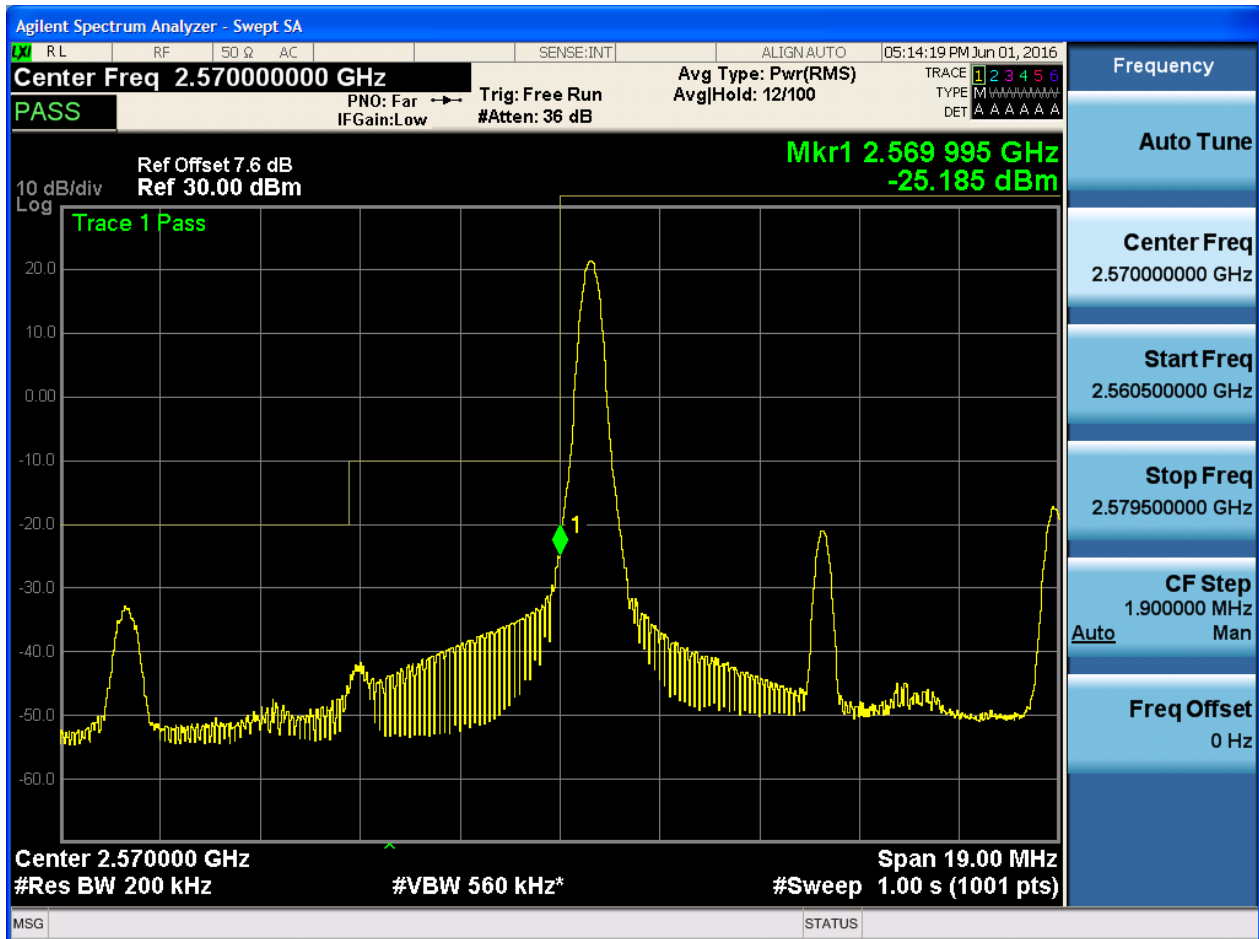




5.1.2.2.2 Test Bandwidth = 10

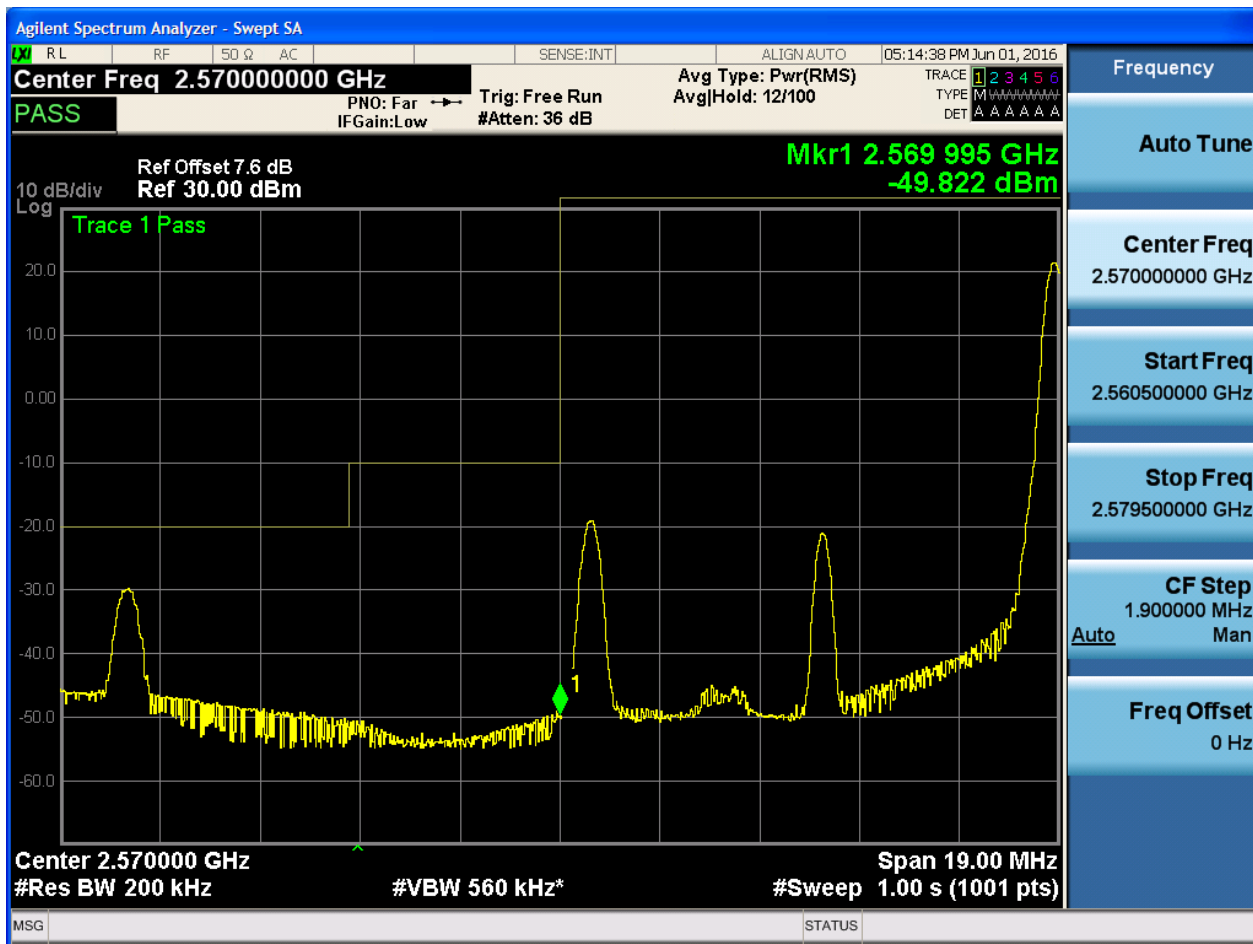
5.1.2.2.2.1 Test Channel = LCH

5.1.2.2.2.1.1 Test RB = RB1#0





5.1.2.2.1.2 Test RB = RB1#49



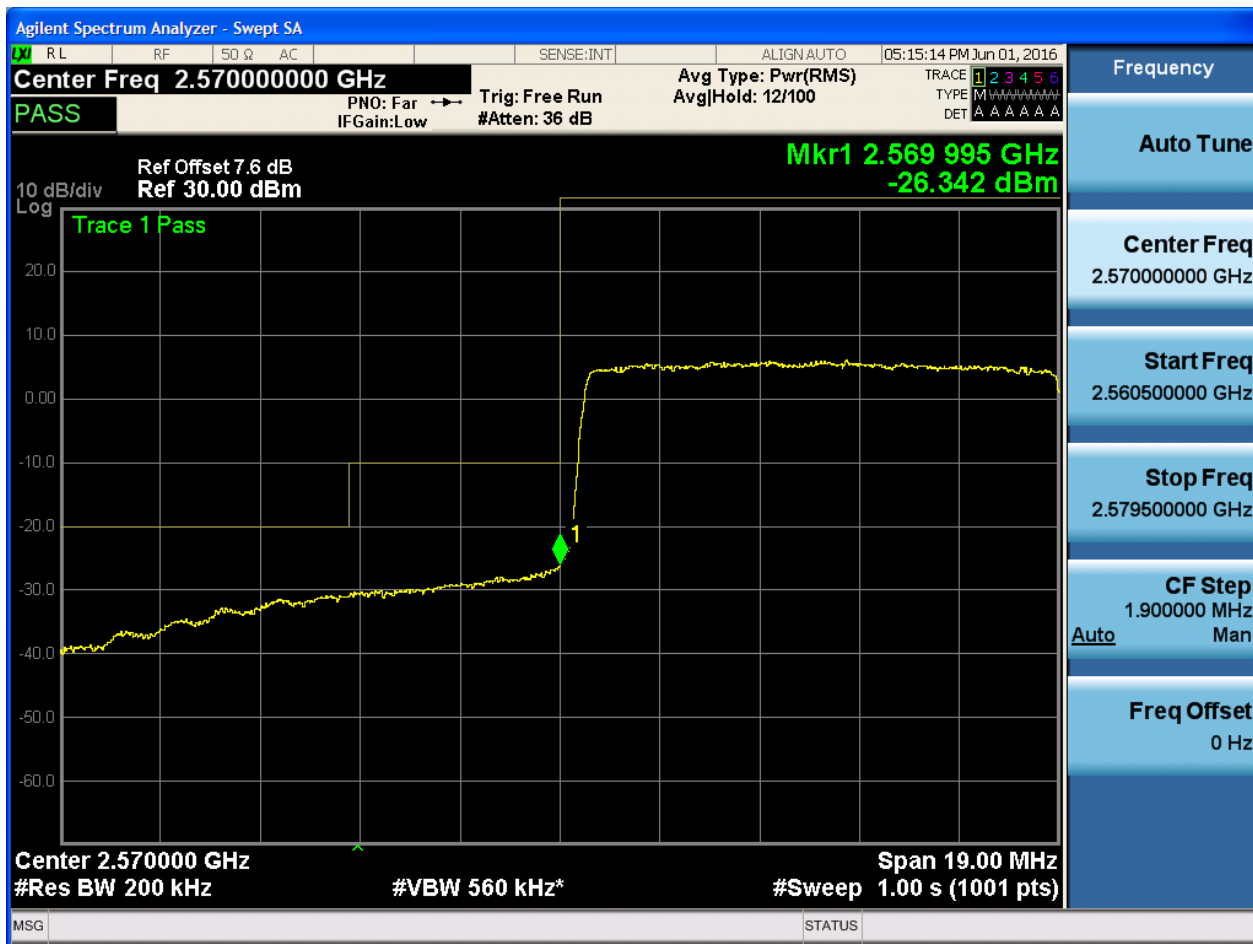


5.1.2.2.1.3 Test RB = RB25#13





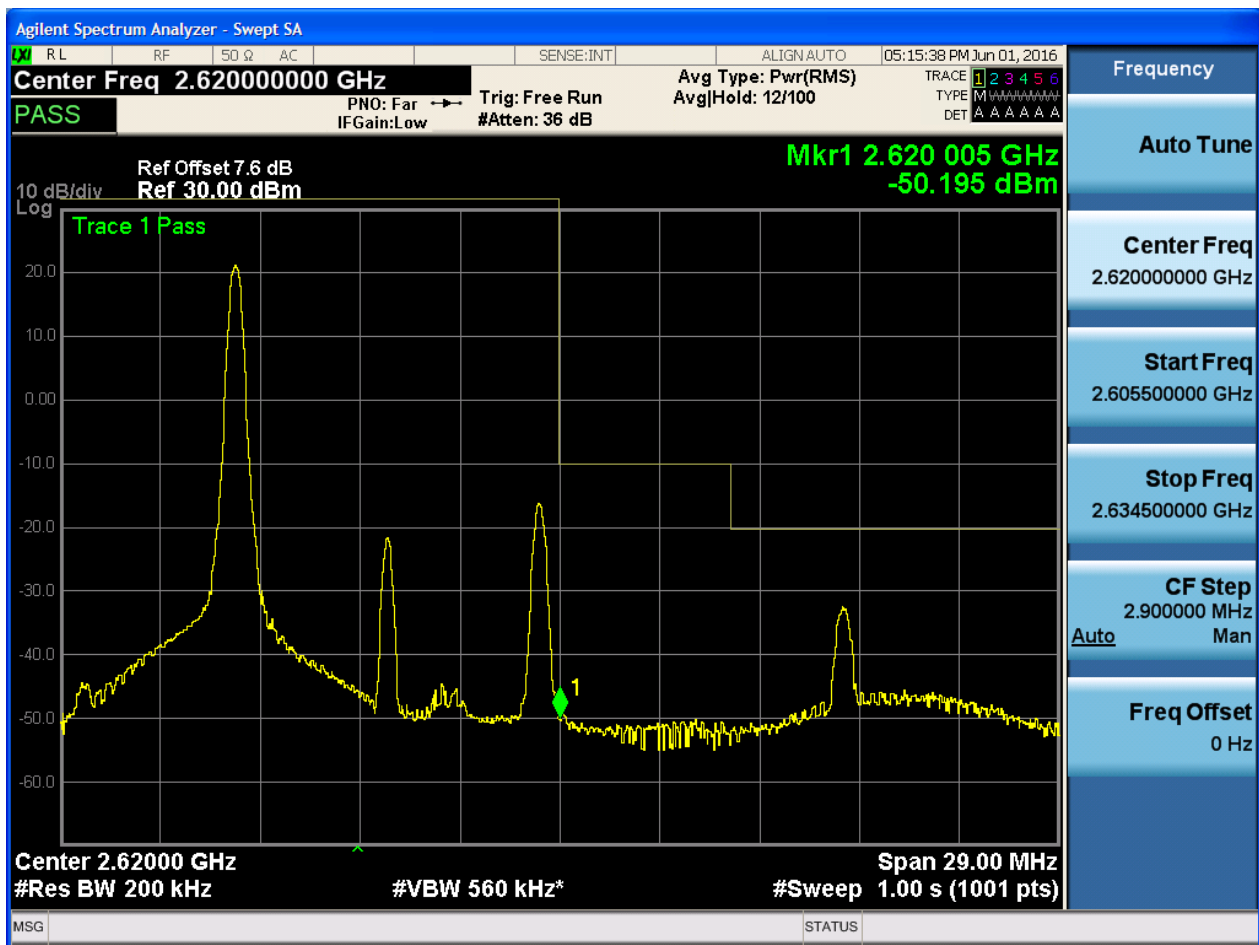
5.1.2.2.1.4 Test RB = RB50#0





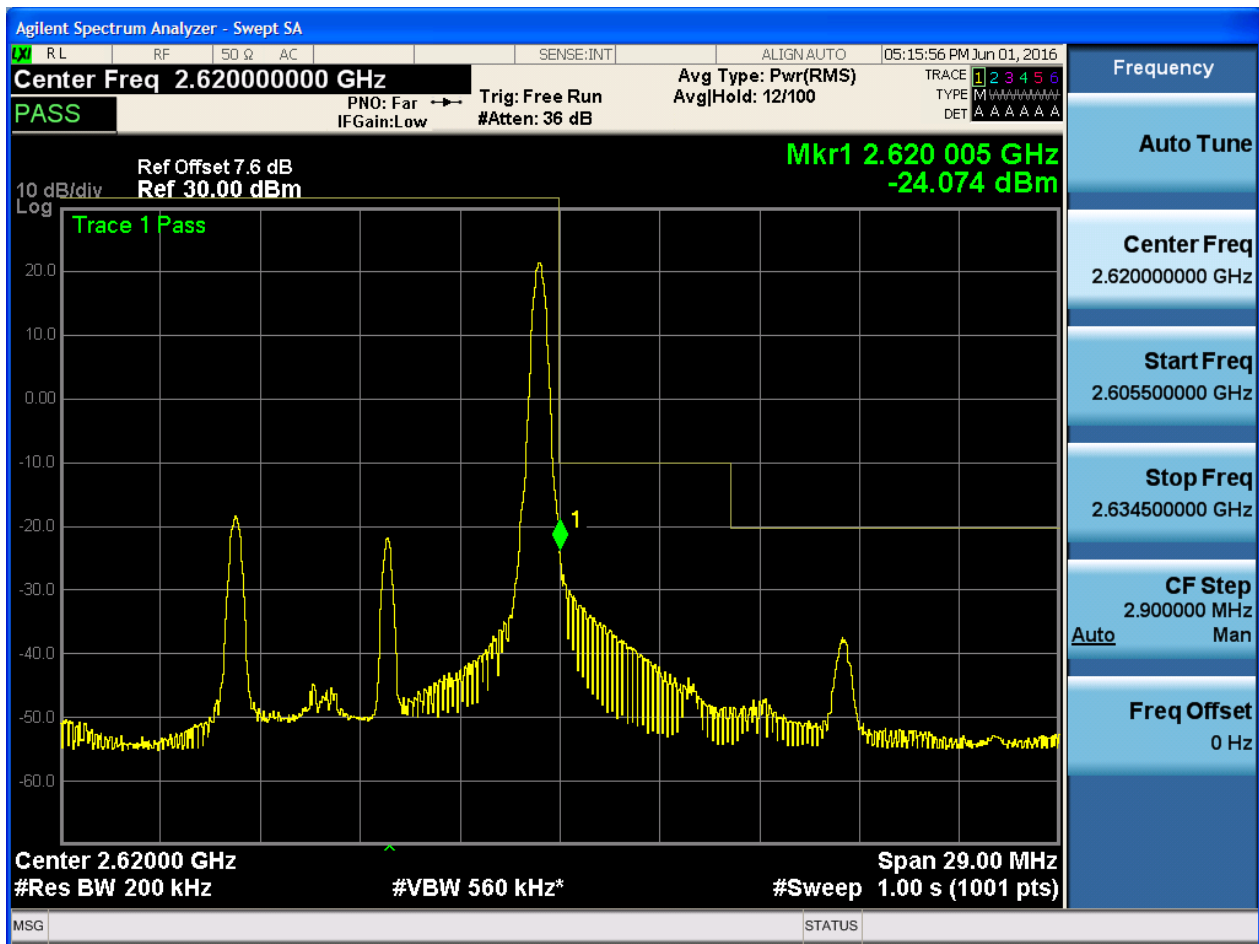
5.1.2.2.2 Test Channel = HCH

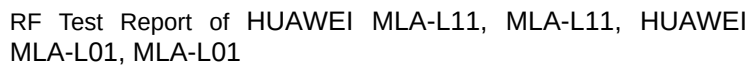
5.1.2.2.2.1 Test RB = RB1#0





5.1.2.2.2.2 Test RB = RB1#49





Agilent Spectrum Analyzer - Swept SA

Center Freq 2.62000000 GHz

PASS

Ref Offset 7.6 dB
Ref 30.00 dBm

Mkr1 2.620 005 GHz
-30.242 dBm

Trace 1 Pass

Center 2.62000 GHz
#Res BW 200 kHz
#VBW 560 kHz*

Span 29.00 MHz
#Sweep 1.00 s (1001 pts)

Frequency

Auto Tune

Center Freq
2.62000000 GHz

Start Freq
2.605500000 GHz

Stop Freq
2.634500000 GHz

CF Step
2.900000 MHz
Man

Auto

Freq Offset
0 Hz



5.1.2.2.2.4 Test RB = RB50#0

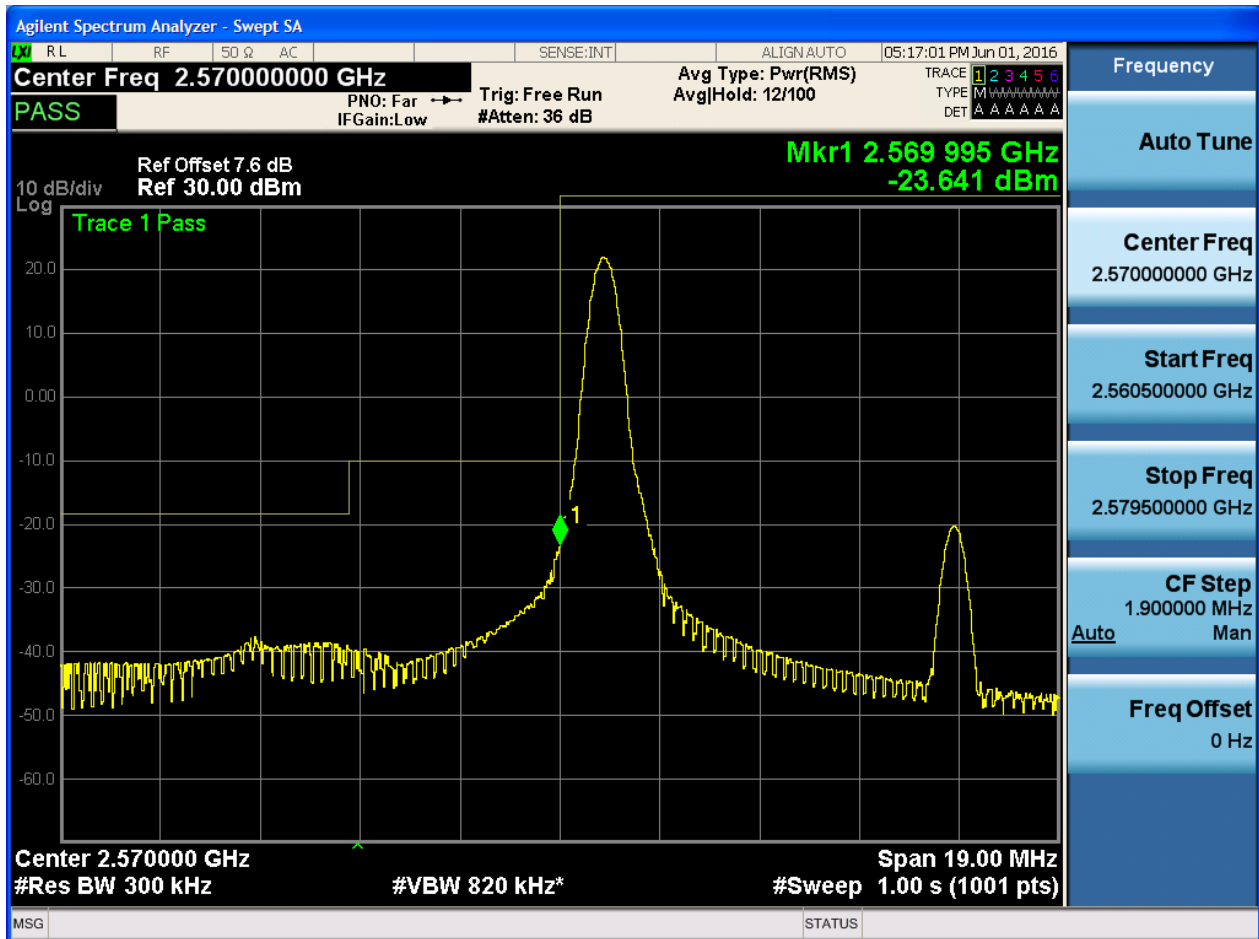




5.1.2.2.3 Test Bandwidth = 15

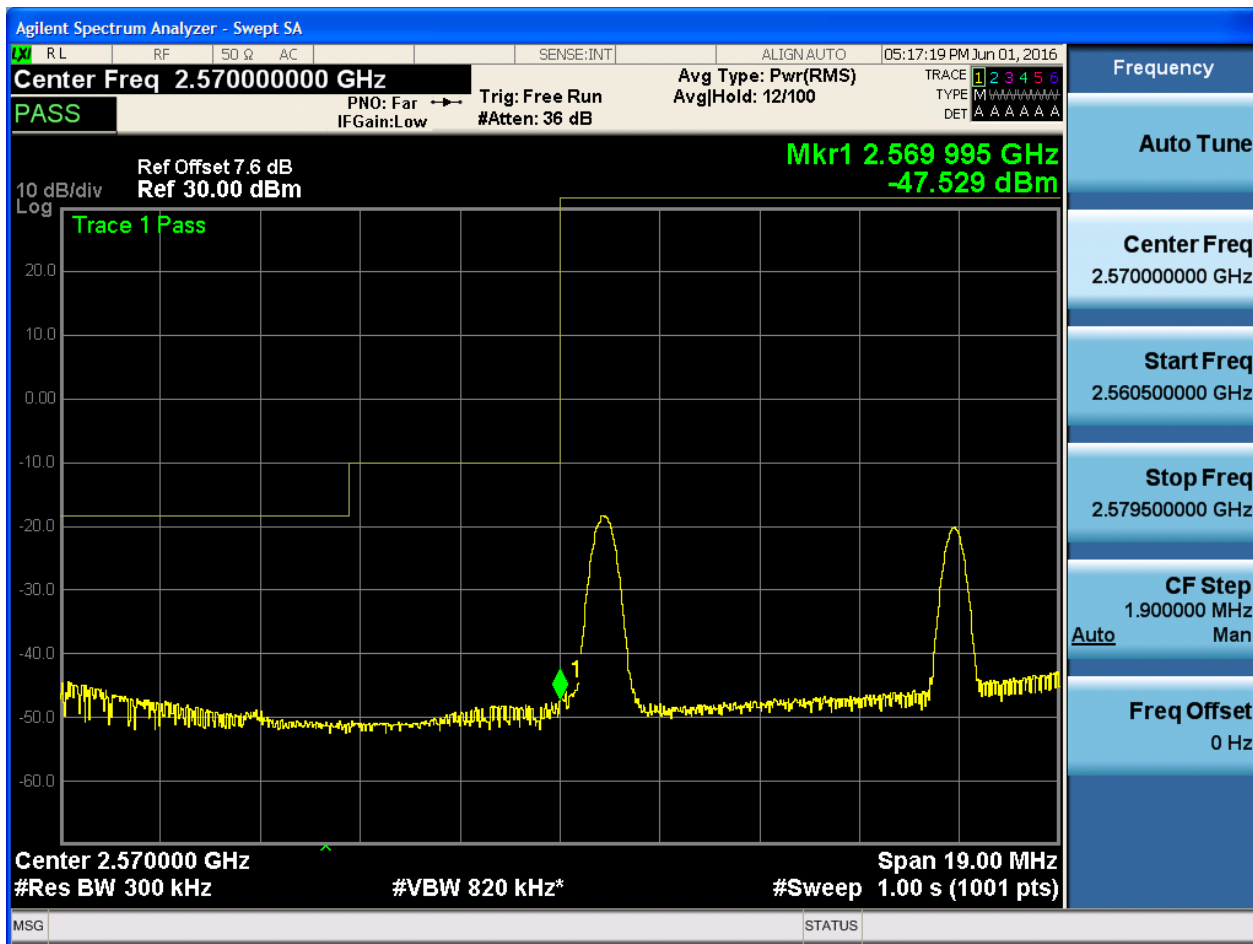
5.1.2.2.3.1 Test Channel = LCH

5.1.2.2.3.1.1 Test RB = RB1#0





5.1.2.2.3.1.2 Test RB = RB1#74



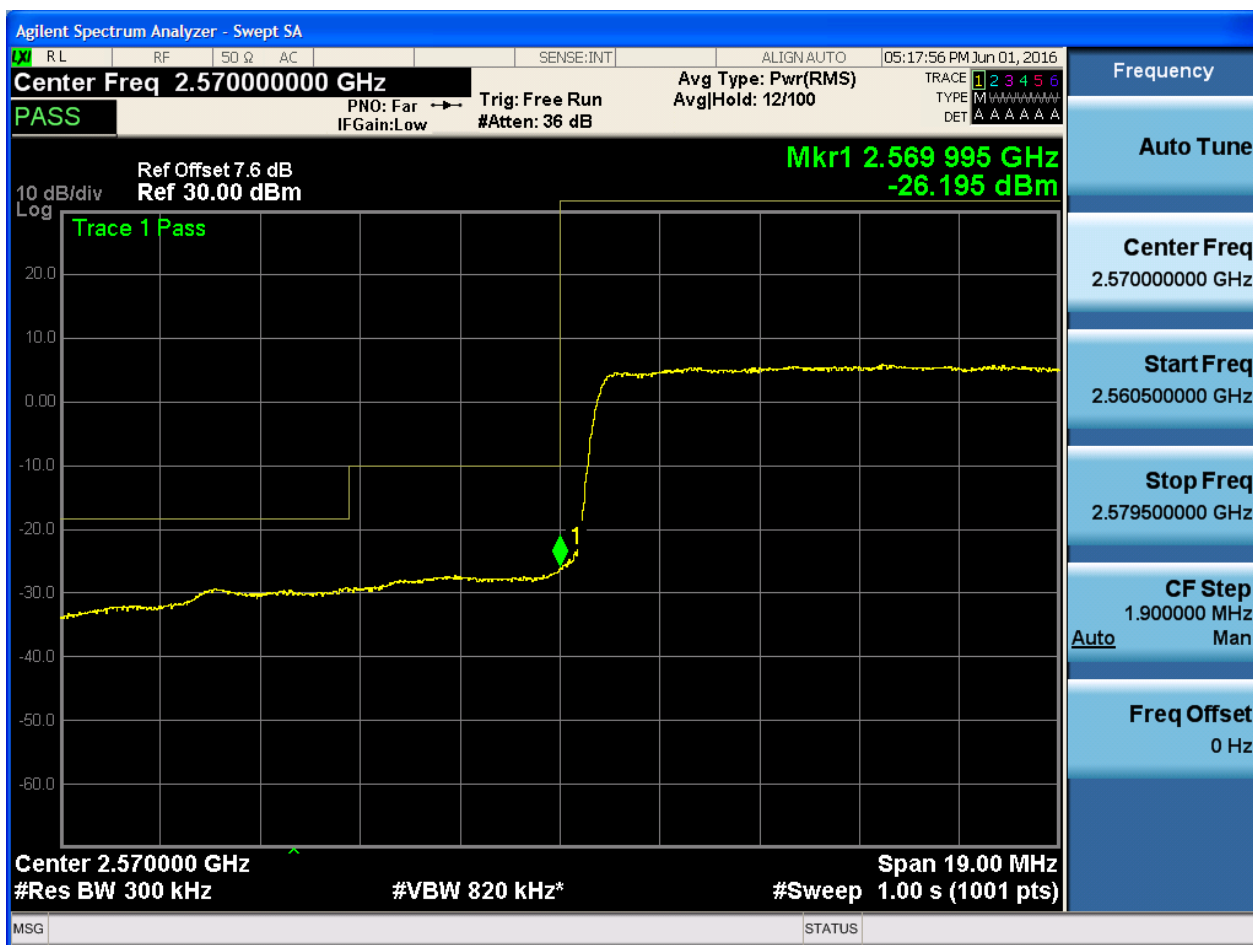


5.1.2.2.3.1.3 Test RB = RB36#18





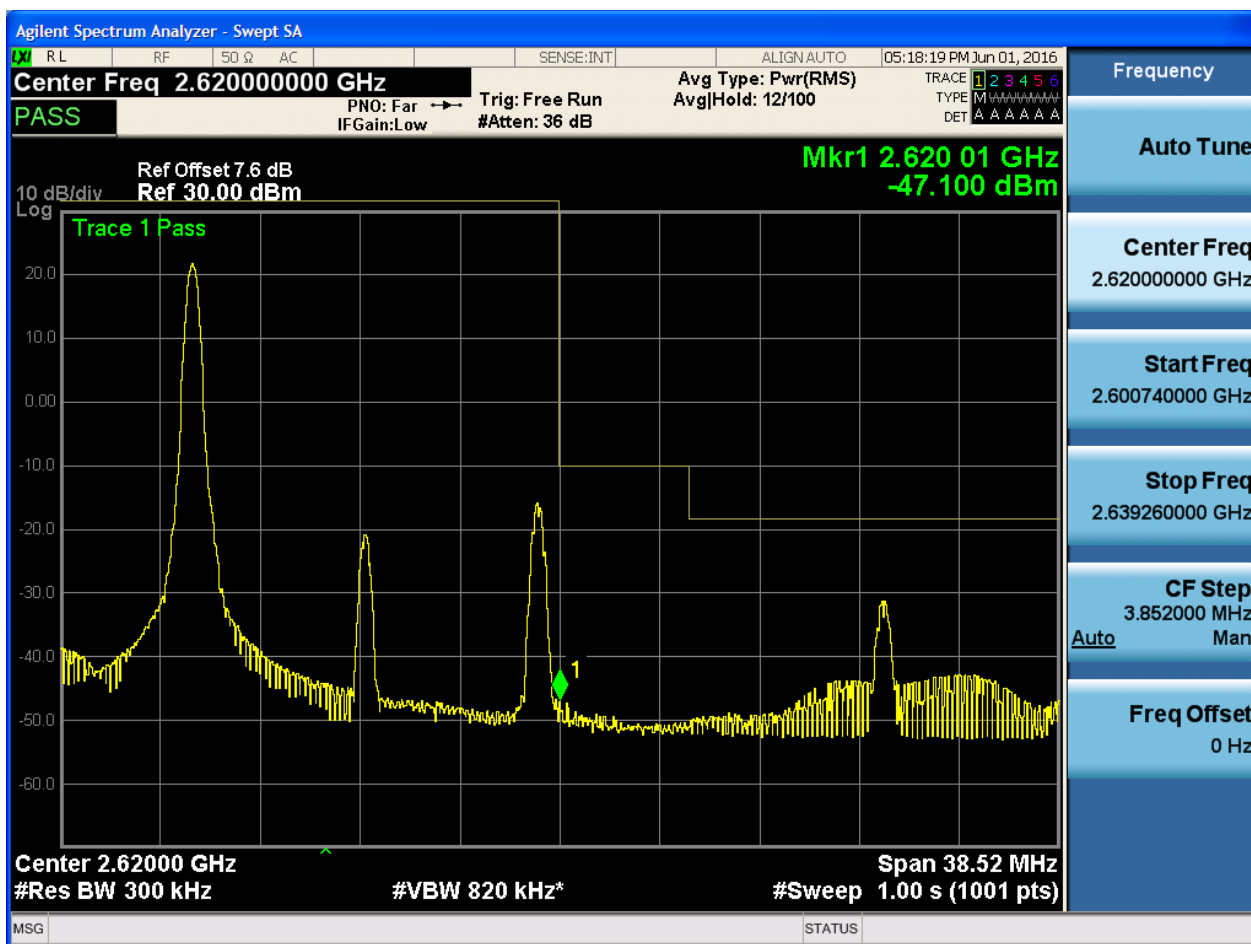
5.1.2.2.3.1.4 Test RB = RB75#0

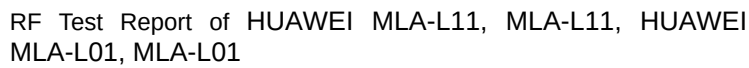




5.1.2.2.3.2 Test Channel = HCH

5.1.2.2.3.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

Center Freq 2.62000000 GHz

PASS

Ref Offset 7.6 dB
Ref 30.00 dBm

Mkr1 2.620 01 GHz
-22.589 dBm

Trace 1 Pass

Center 2.62000 GHz
#Res BW 300 kHz
#VBW 820 kHz*
Span 38.52 MHz
#Sweep 1.00 s (1001 pts)

Frequency

Auto Tune

Center Freq
2.62000000 GHz

Start Freq
2.600740000 GHz

Stop Freq
2.639260000 GHz

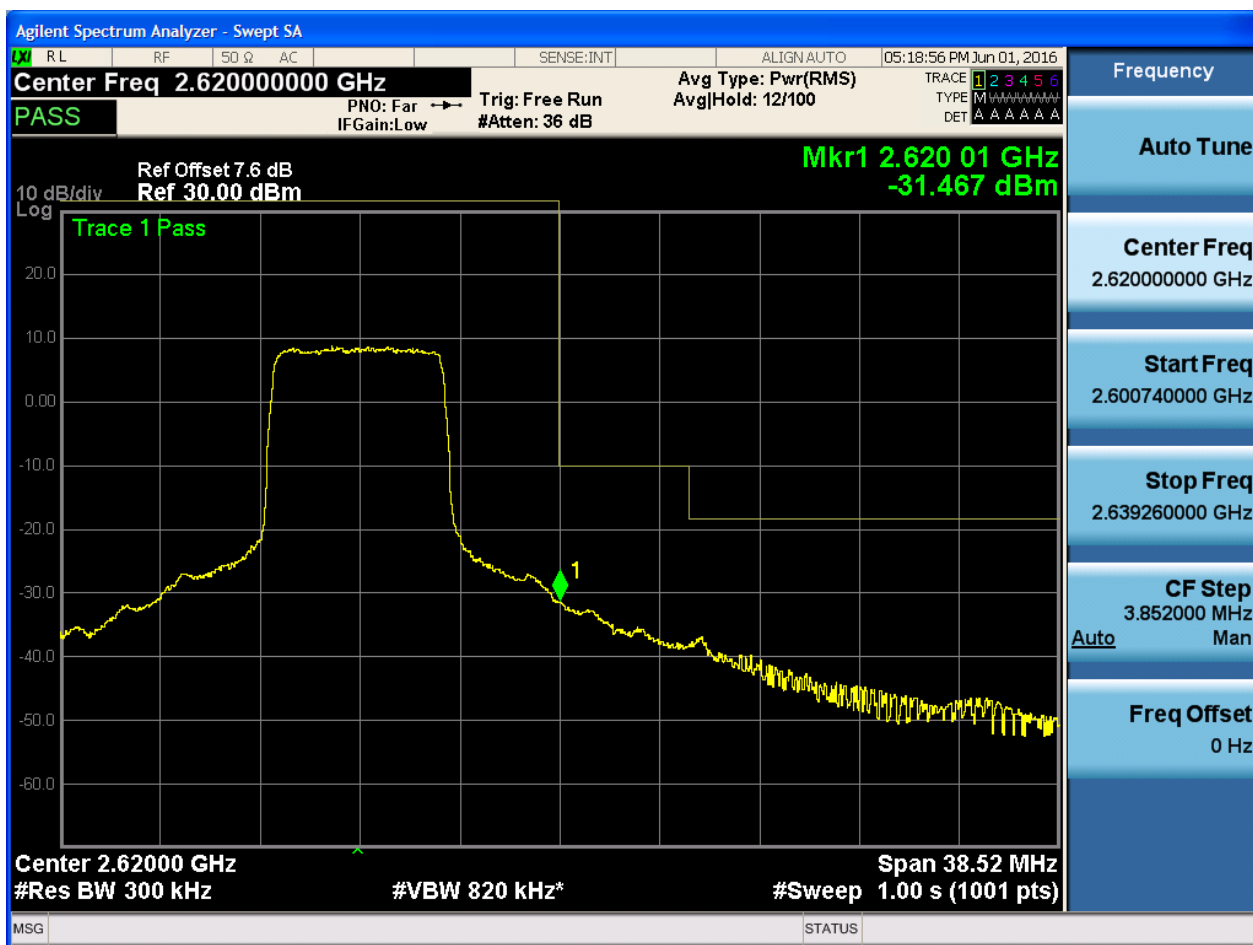
CF Step
3.852000 MHz
Man

Freq Offset
0 Hz

The image shows a screenshot of an Agilent Spectrum Analyzer. The main display area shows a frequency spectrum with a yellow trace. The x-axis represents frequency, and the y-axis represents power in dBm. A prominent peak is visible at 2.62001 GHz, marked with a green diamond and labeled '1'. The peak power is -22.589 dBm. The spectrum shows some noise and smaller peaks at lower frequencies. The interface includes various control buttons and readouts, such as 'Center Freq', 'Ref Offset', 'Ref', 'Mkr1', 'Trace 1 Pass', 'Center', '#Res BW', '#VBW', 'Span', and '#Sweep'. The right side of the screen has a vertical panel with 'Frequency' and 'Auto Tune' buttons, and a list of parameters including 'Center Freq', 'Start Freq', 'Stop Freq', 'CF Step', and 'Freq Offset'.



5.1.2.2.3.2.3 Test RB = RB36#18





5.1.2.2.3.2.4 Test RB = RB75#0

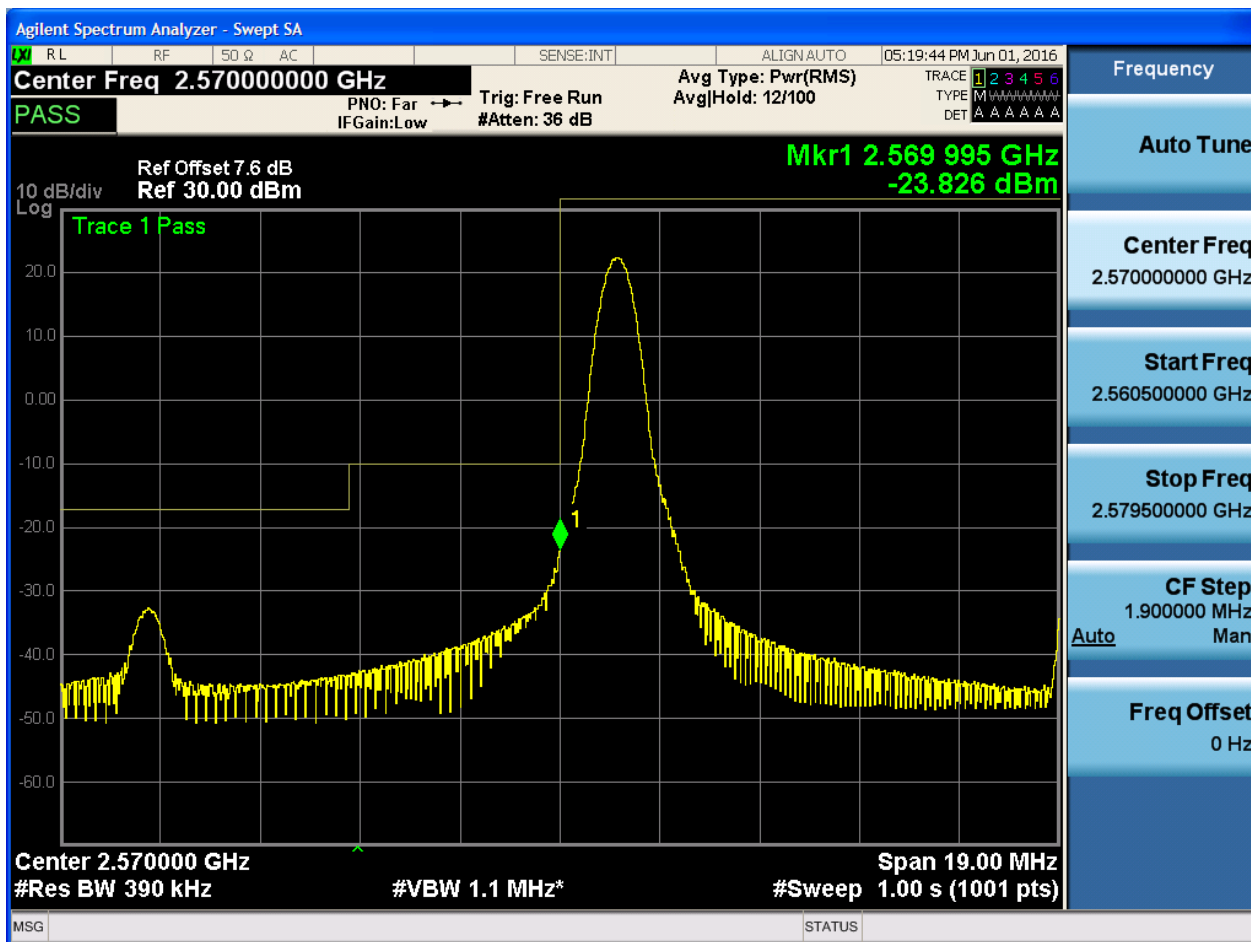




5.1.2.2.4 Test Bandwidth = 20

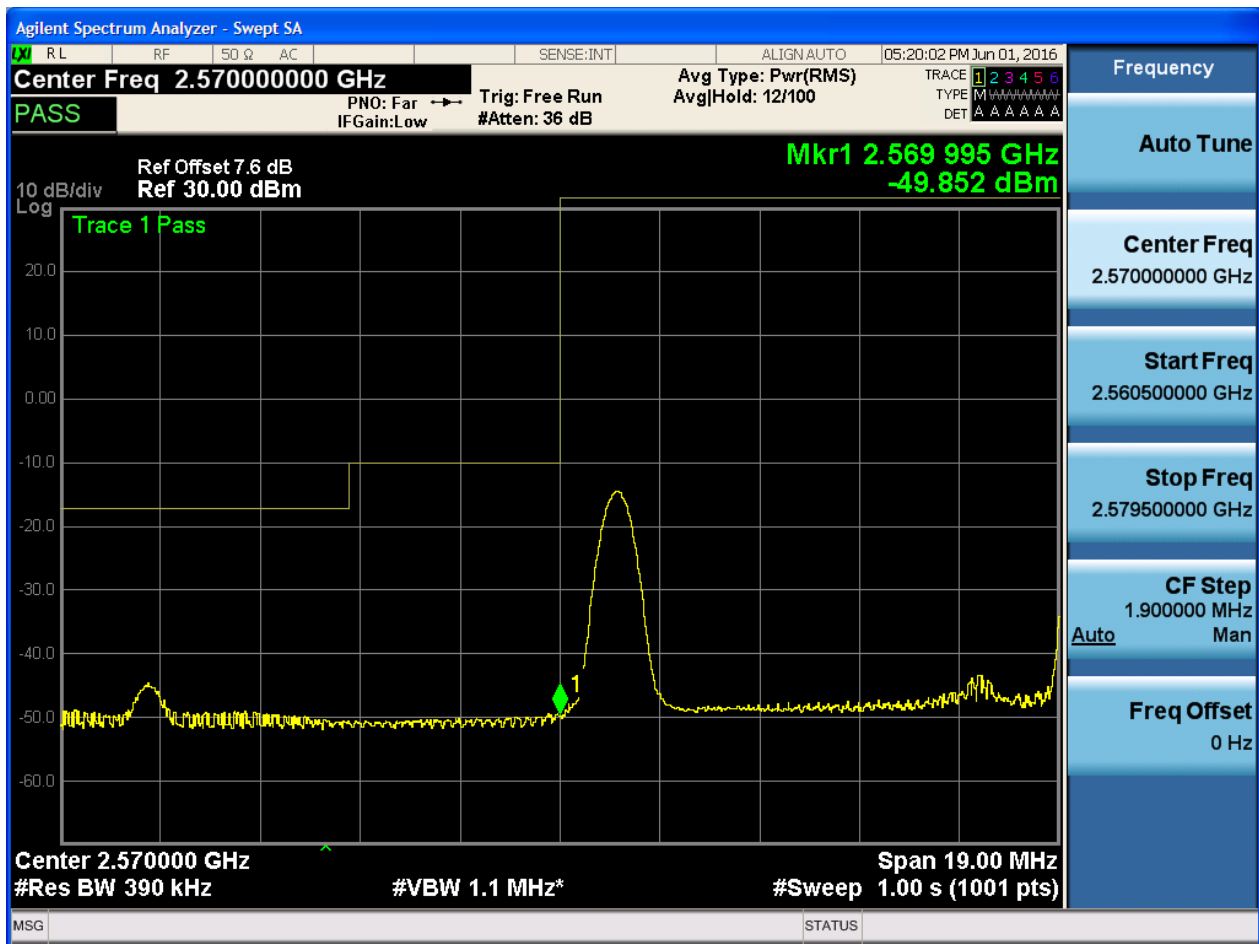
5.1.2.2.4.1 Test Channel = LCH

5.1.2.2.4.1.1 Test RB = RB1#0



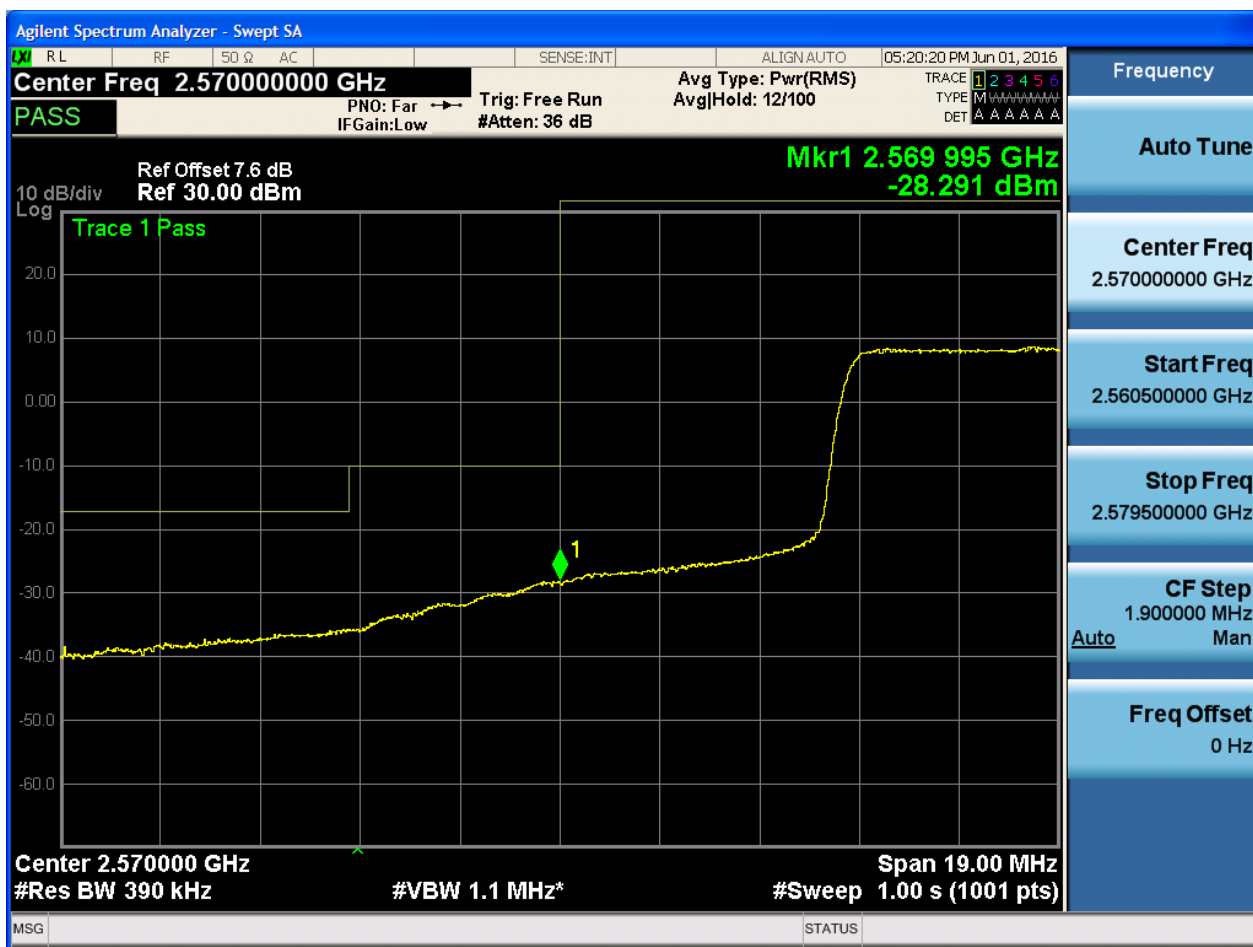


5.1.2.2.4.1.2 Test RB = RB1#99



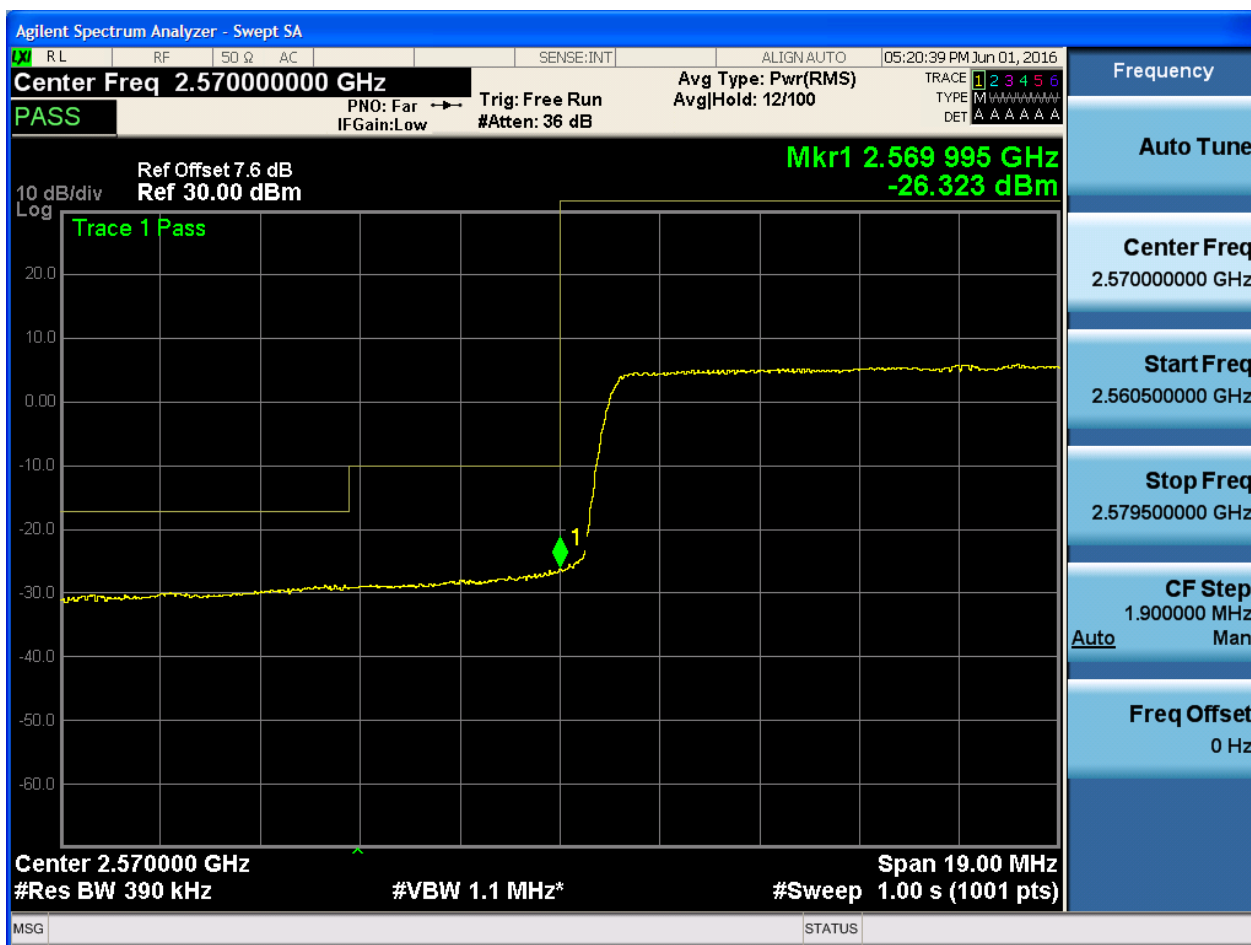


5.1.2.2.4.1.3 Test RB = RB50#25





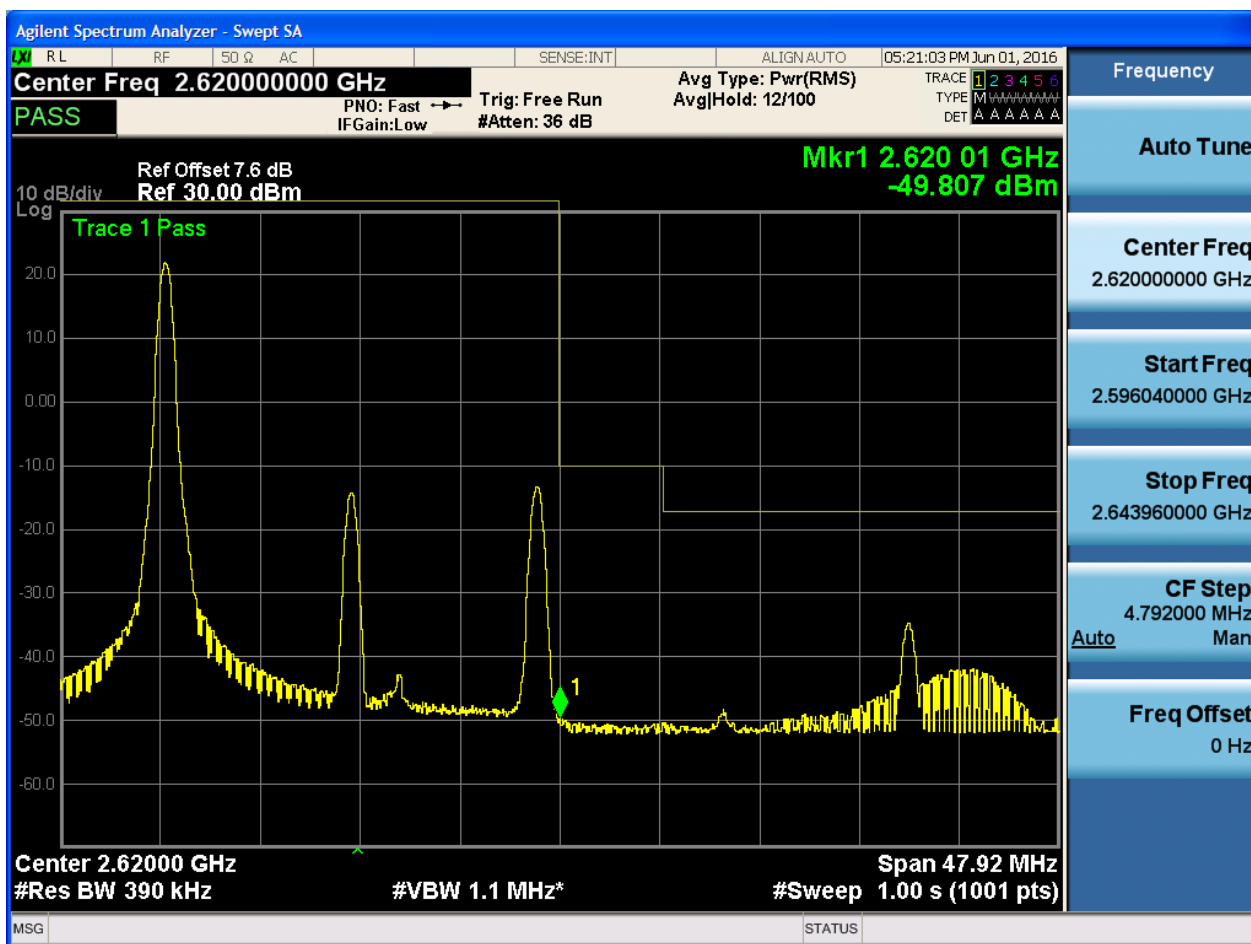
5.1.2.2.4.1.4 Test RB = RB100#0





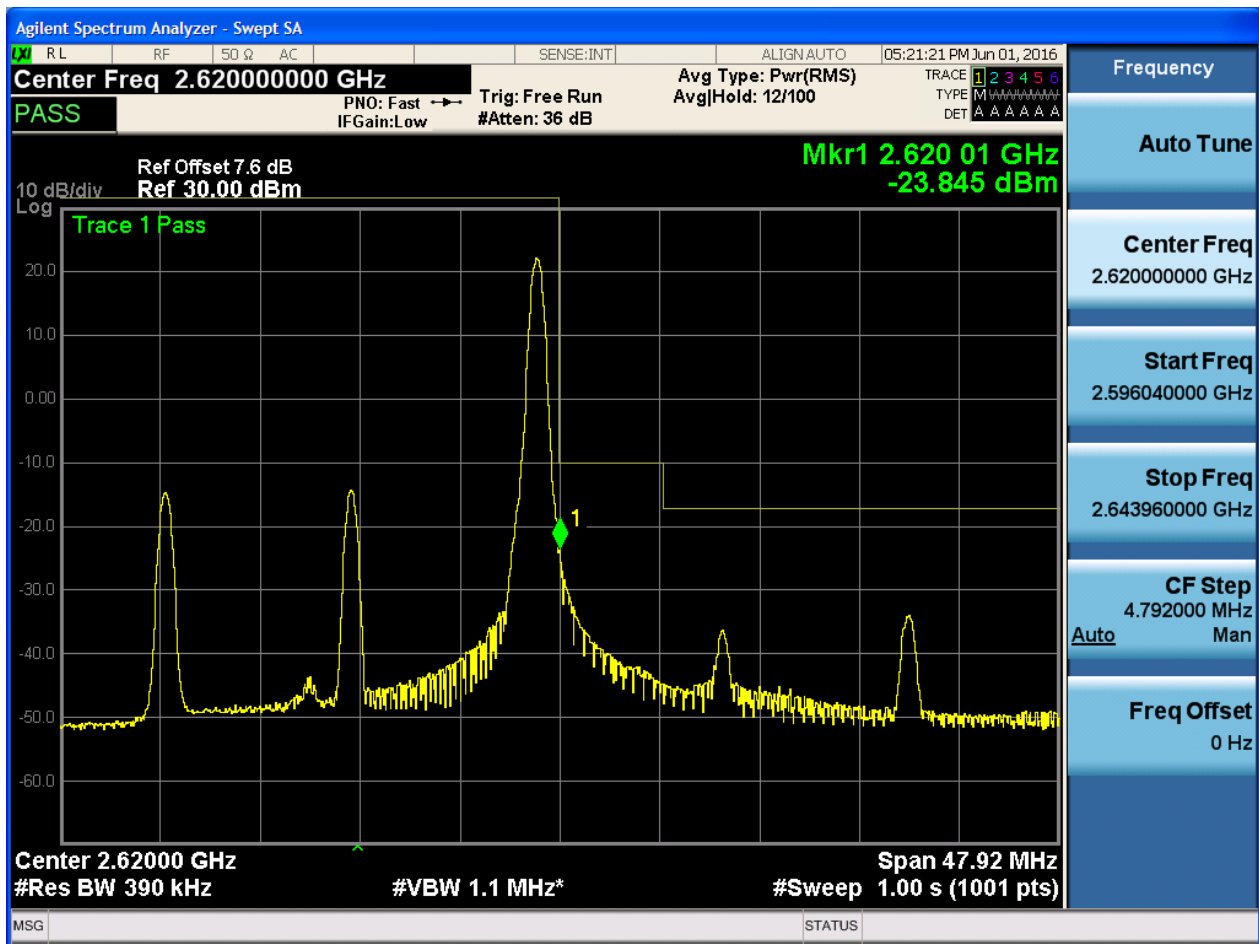
5.1.2.2.4.2 Test Channel = HCH

5.1.2.2.4.2.1 Test RB = RB1#0



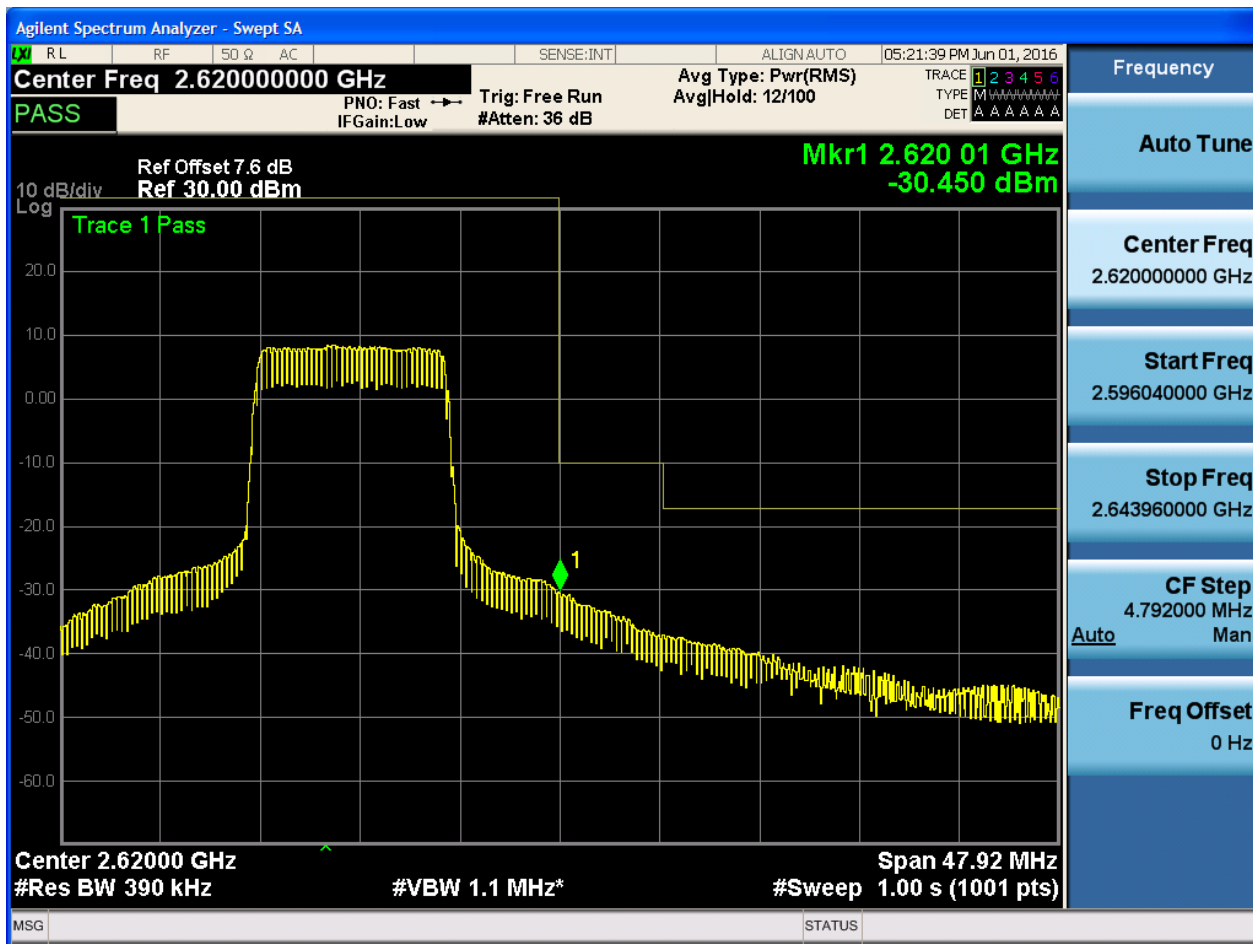


5.1.2.2.4.2.2 Test RB = RB1#99





5.1.2.2.4.2.3 Test RB = RB50#25





5.1.2.2.4.2.4 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

6.1.1 Test Band = BAND7

6.1.1.1 Test Mode = LTE/TM1

6.1.1.1.1 Test Bandwidth = 5

6.1.1.1.1.1 Test Channel = LCH

6.1.1.1.1.1.1 Test RB = RB1#0

