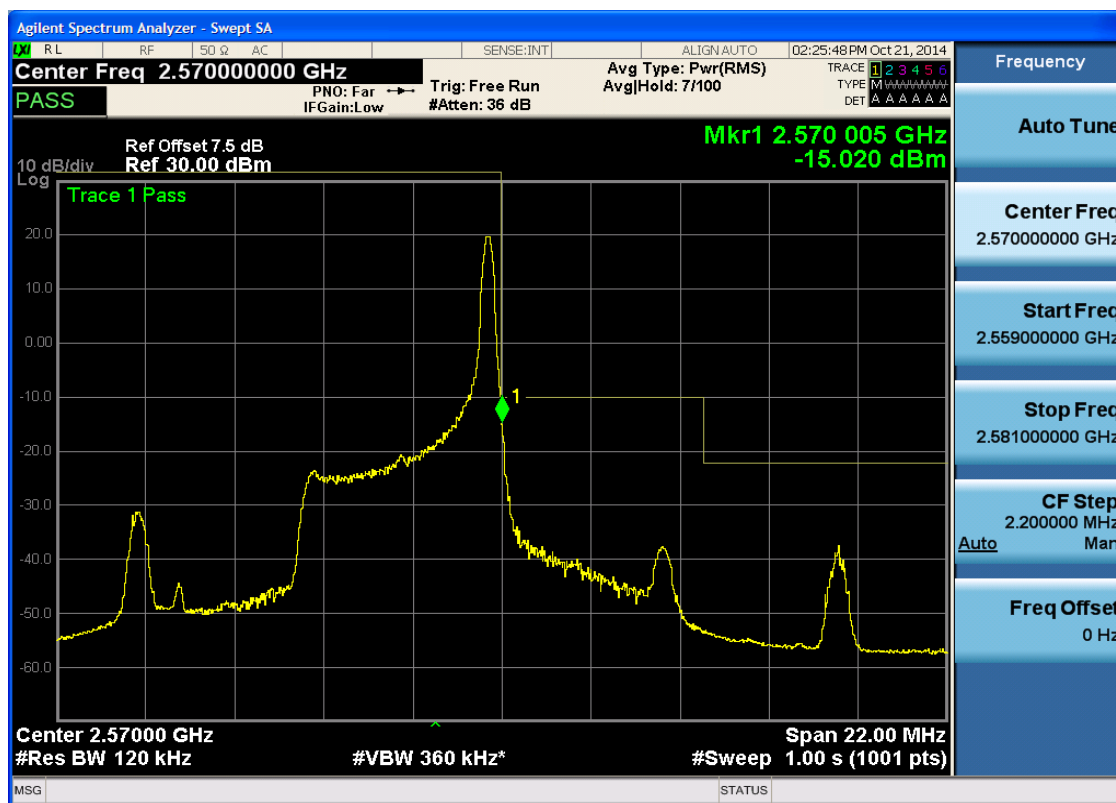


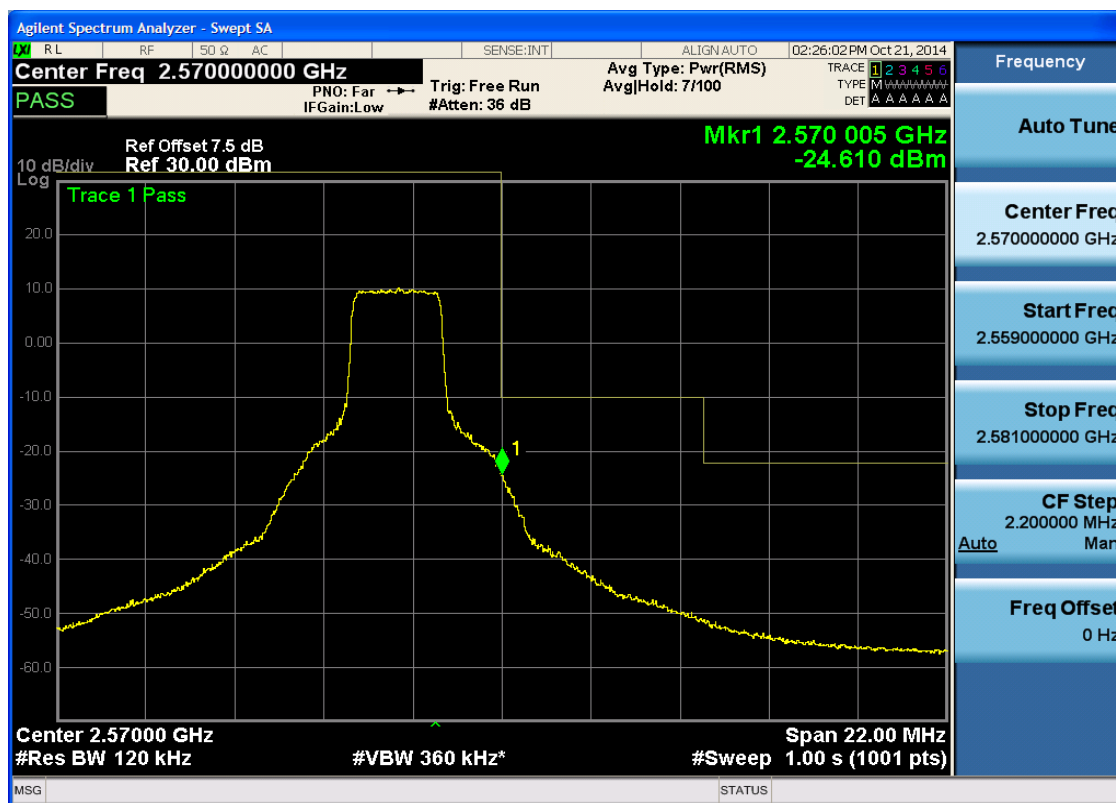


5.3.4.2.1.2.2 Test RB = RB1#24





5.3.4.2.1.2.3 Test RB = RB12#6





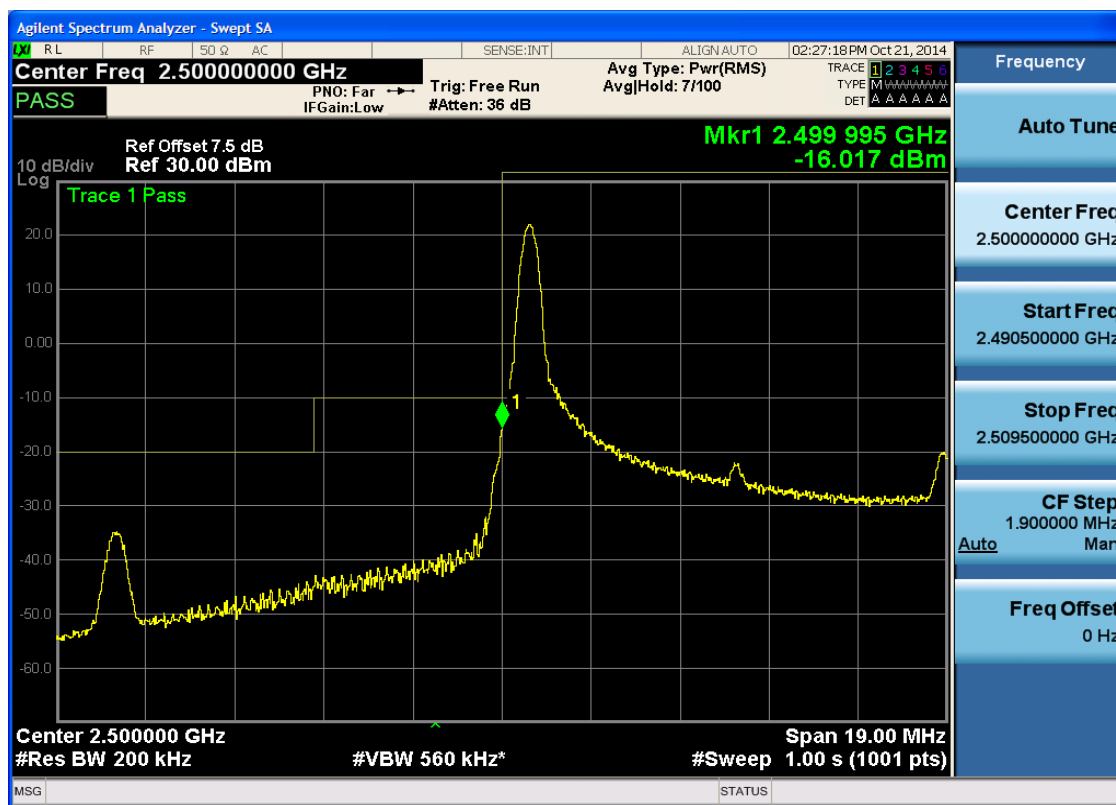
5.3.4.2.1.2.4 Test RB = RB25#0



5.3.4.2.2 Test Bandwidth = 10

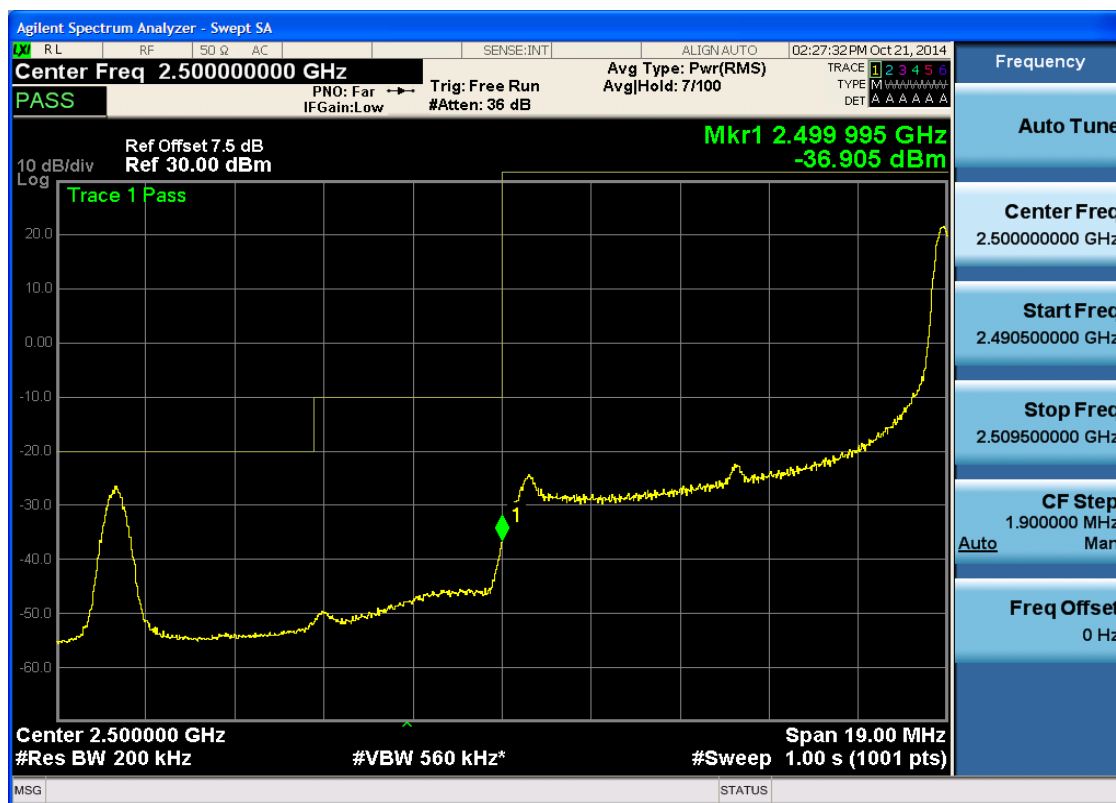
5.3.4.2.2.1 Test Channel = LCH

5.3.4.2.2.1.1 Test RB = RB1#0





5.3.4.2.2.1.2 Test RB = RB1#49



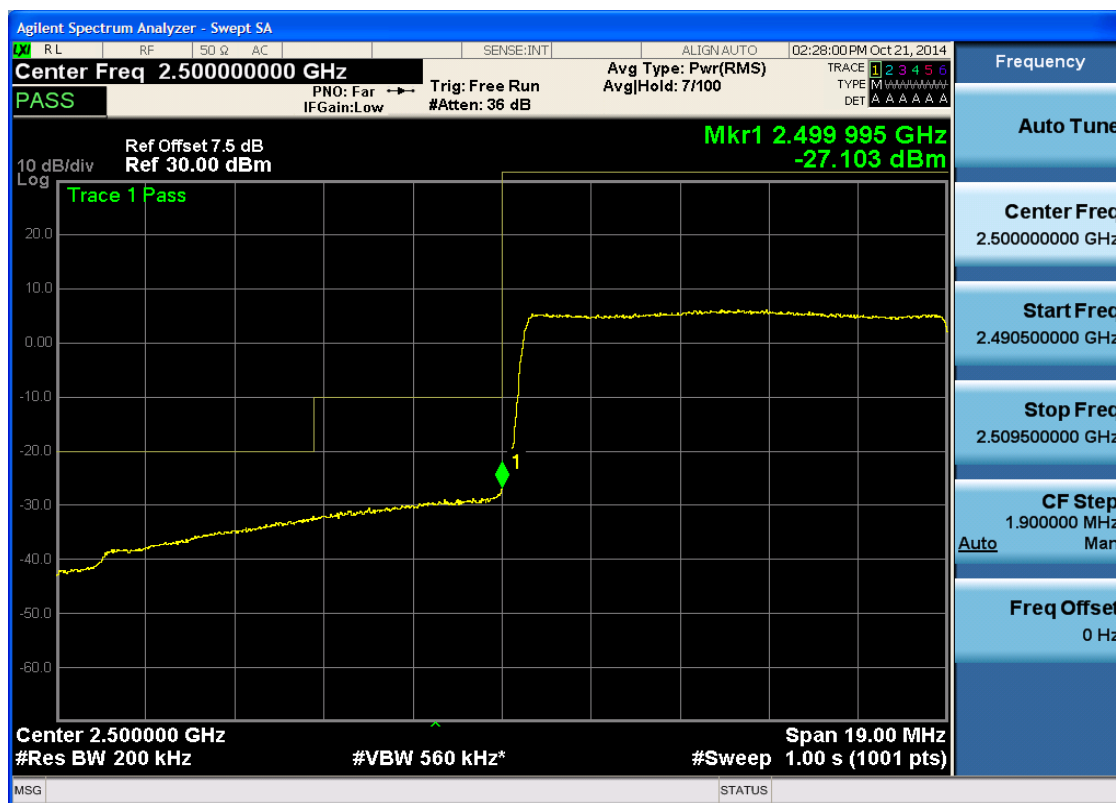


5.3.4.2.2.1.3 Test RB = RB25#13





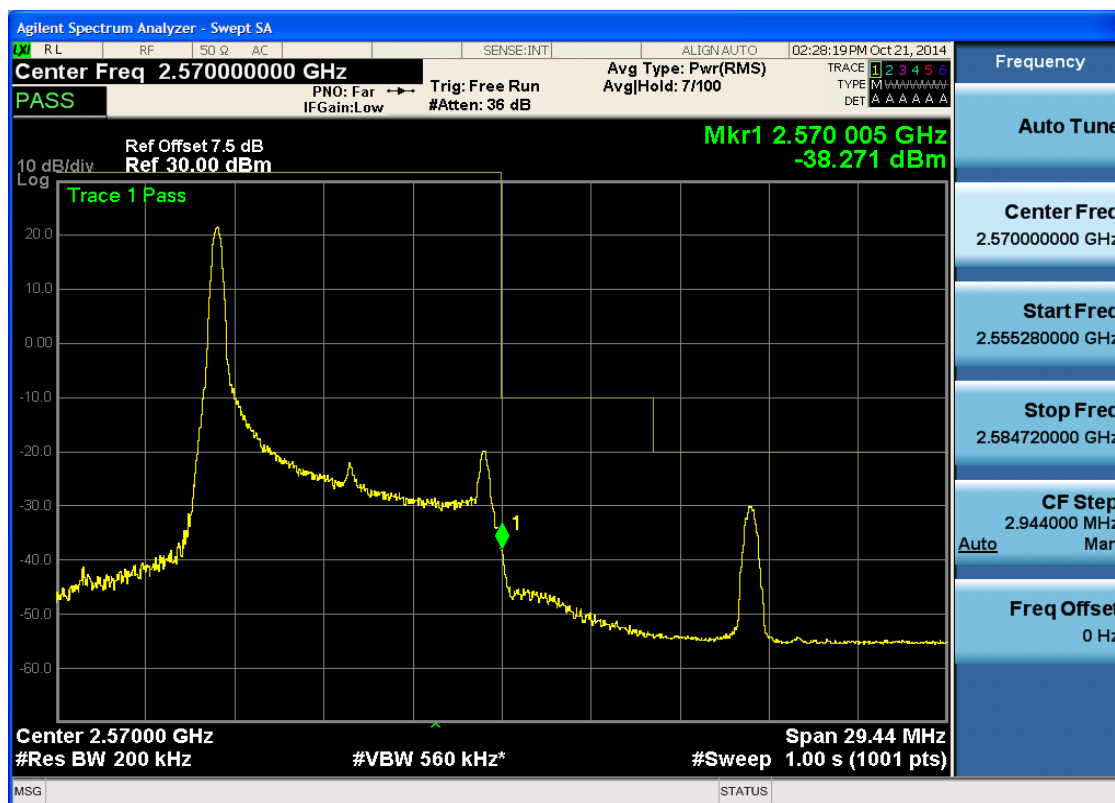
5.3.4.2.2.1.4 Test RB = RB50#0





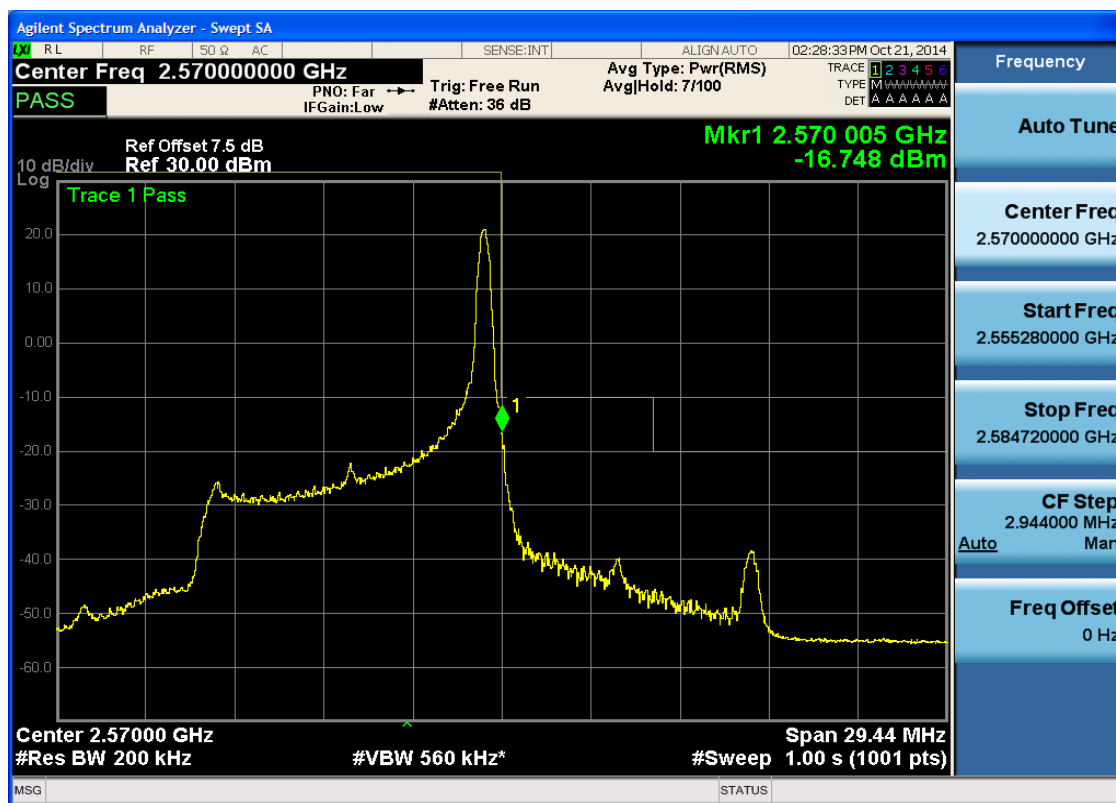
5.3.4.2.2.2 Test Channel = HCH

5.3.4.2.2.2.1 Test RB = RB1#0



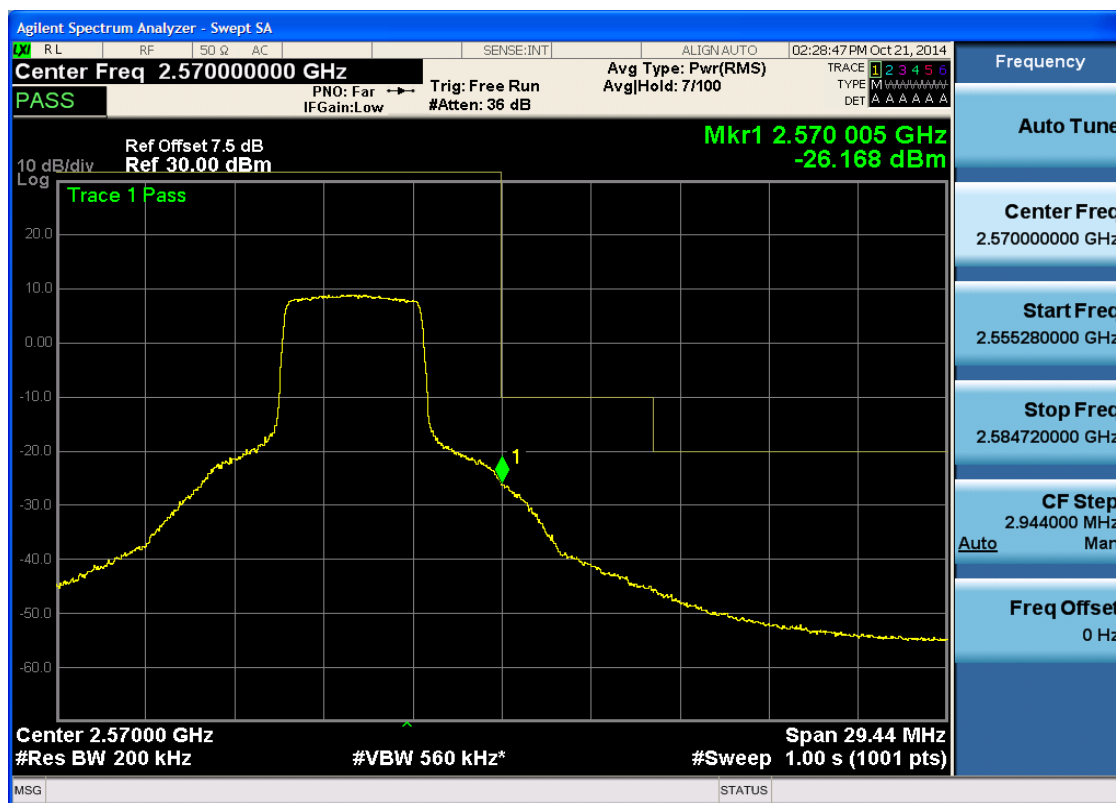


5.3.4.2.2.2 Test RB = RB1#49





5.3.4.2.2.3 Test RB = RB25#13





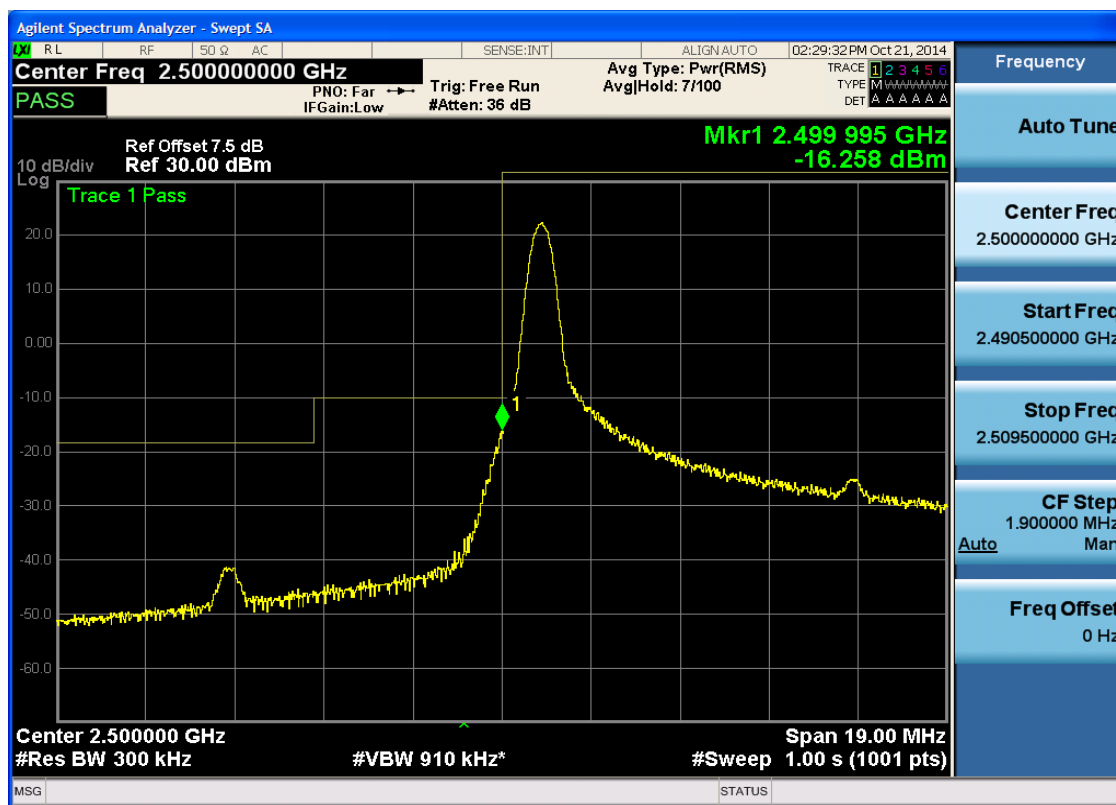
5.3.4.2.2.4 Test RB = RB50#0



5.3.4.2.3 Test Bandwidth = 15

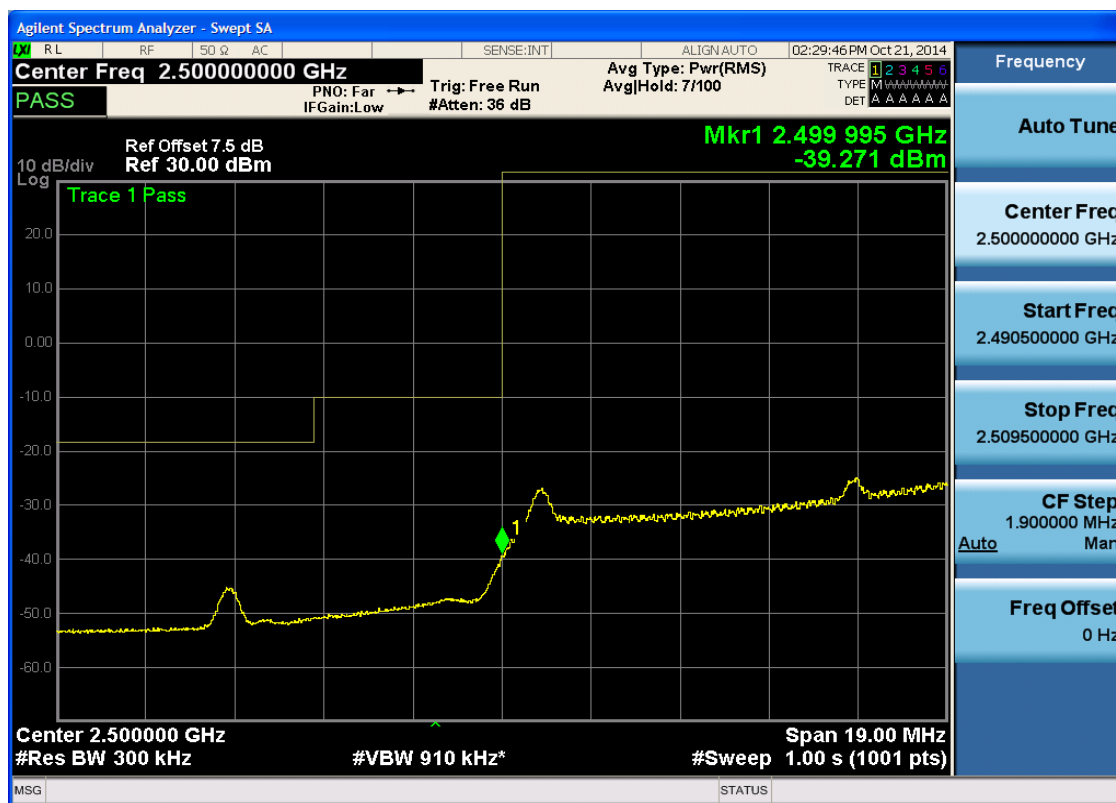
5.3.4.2.3.1 Test Channel = LCH

5.3.4.2.3.1.1 Test RB = RB1#0



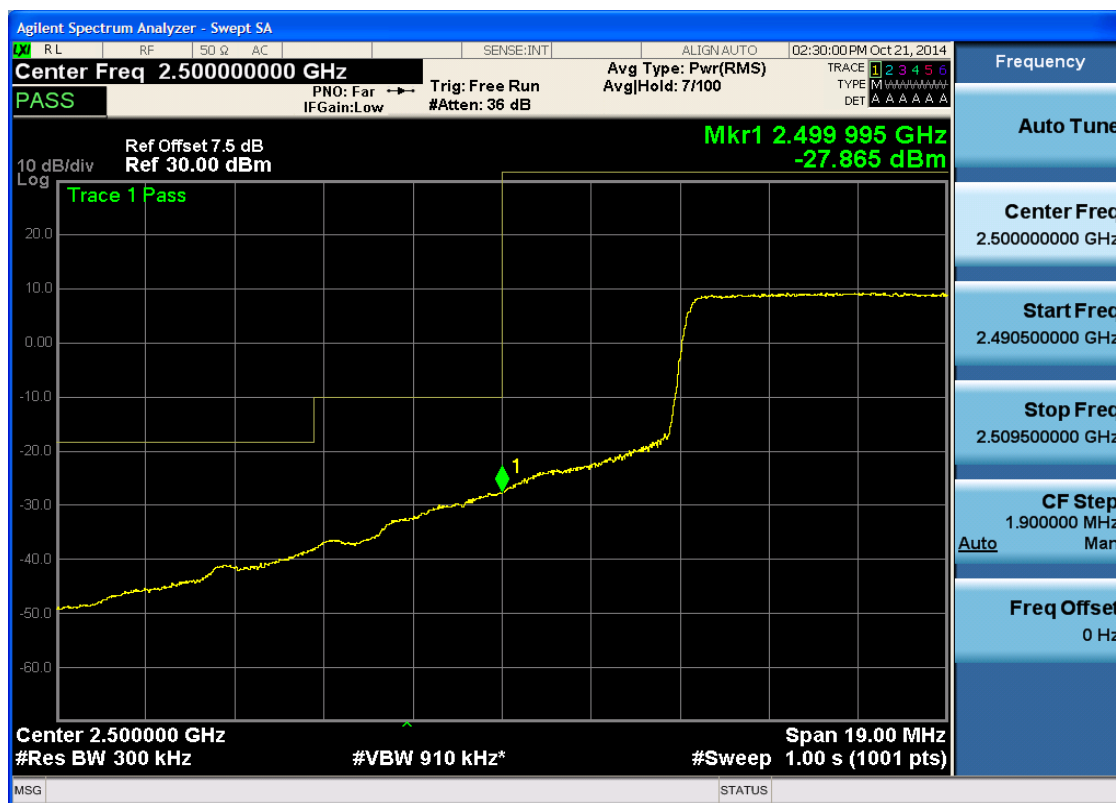


5.3.4.2.3.1.2 Test RB = RB1#74





5.3.4.2.3.1.3 Test RB = RB36#18





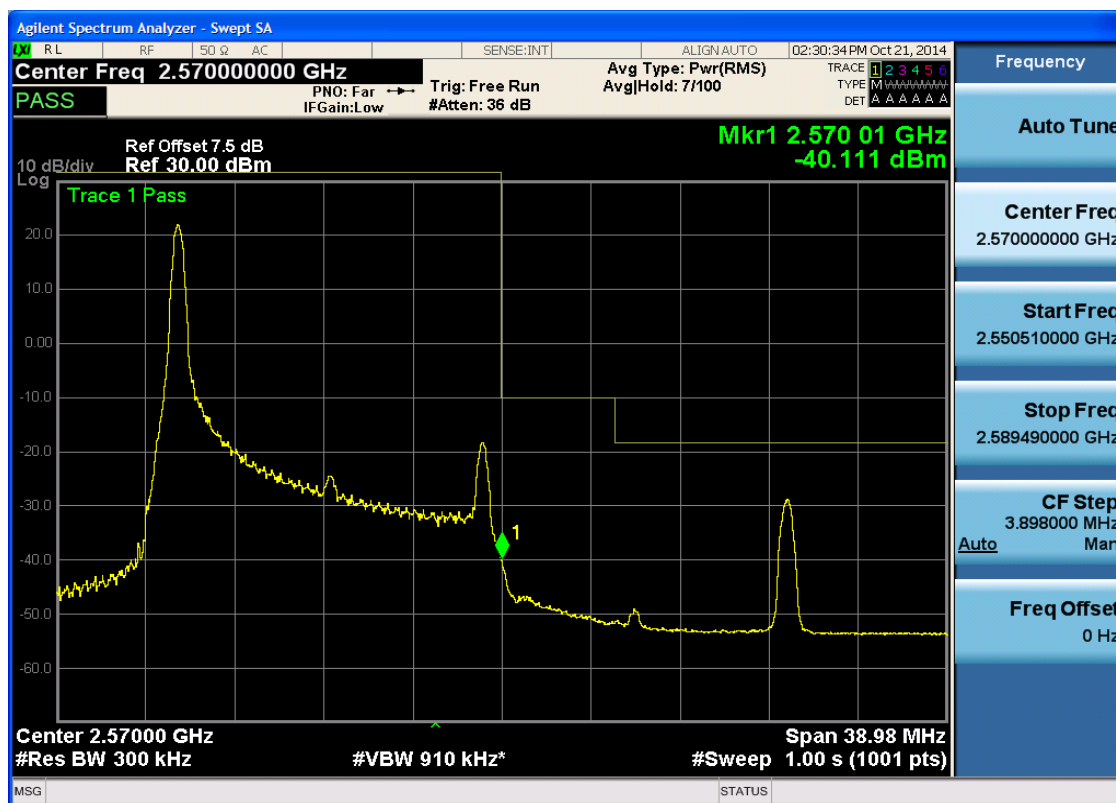
5.3.4.2.3.1.4 Test RB = RB75#0





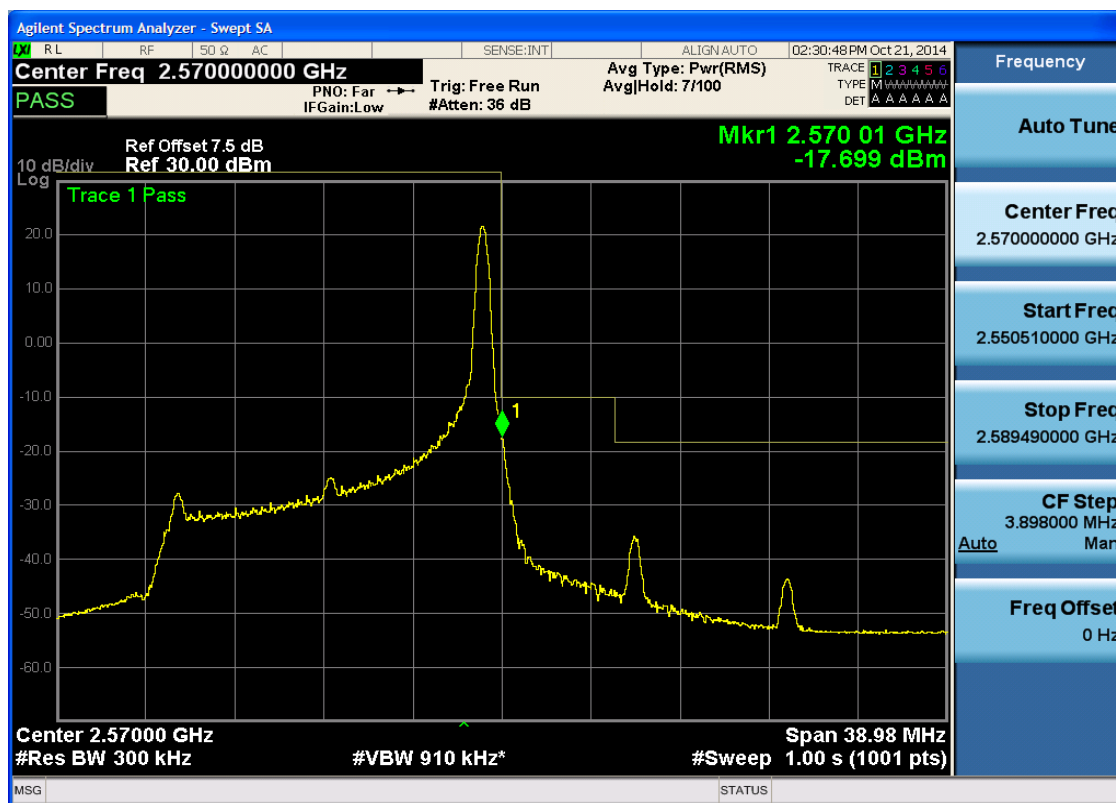
5.3.4.2.3.2 Test Channel = HCH

5.3.4.2.3.2.1 Test RB = RB1#0





5.3.4.2.3.2.2 Test RB = RB1#74





5.3.4.2.3.2.3 Test RB = RB36#18





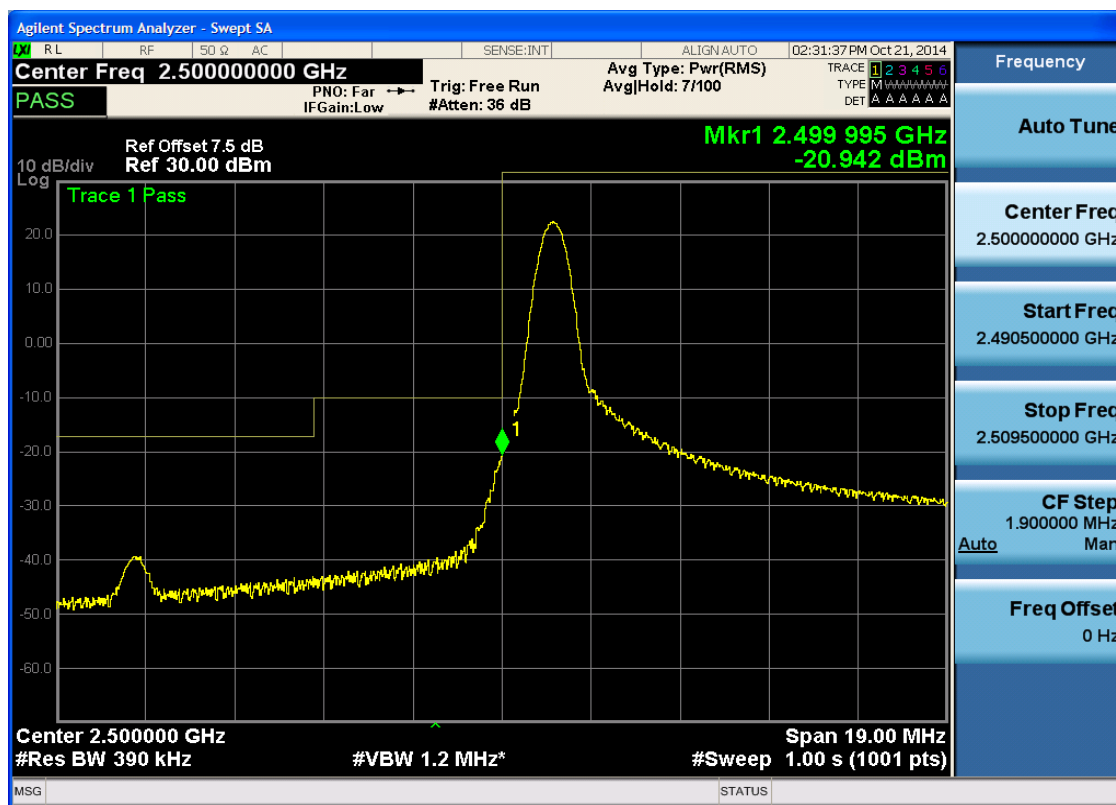
5.3.4.2.3.2.4 Test RB = RB75#0



5.3.4.2.4 Test Bandwidth = 20

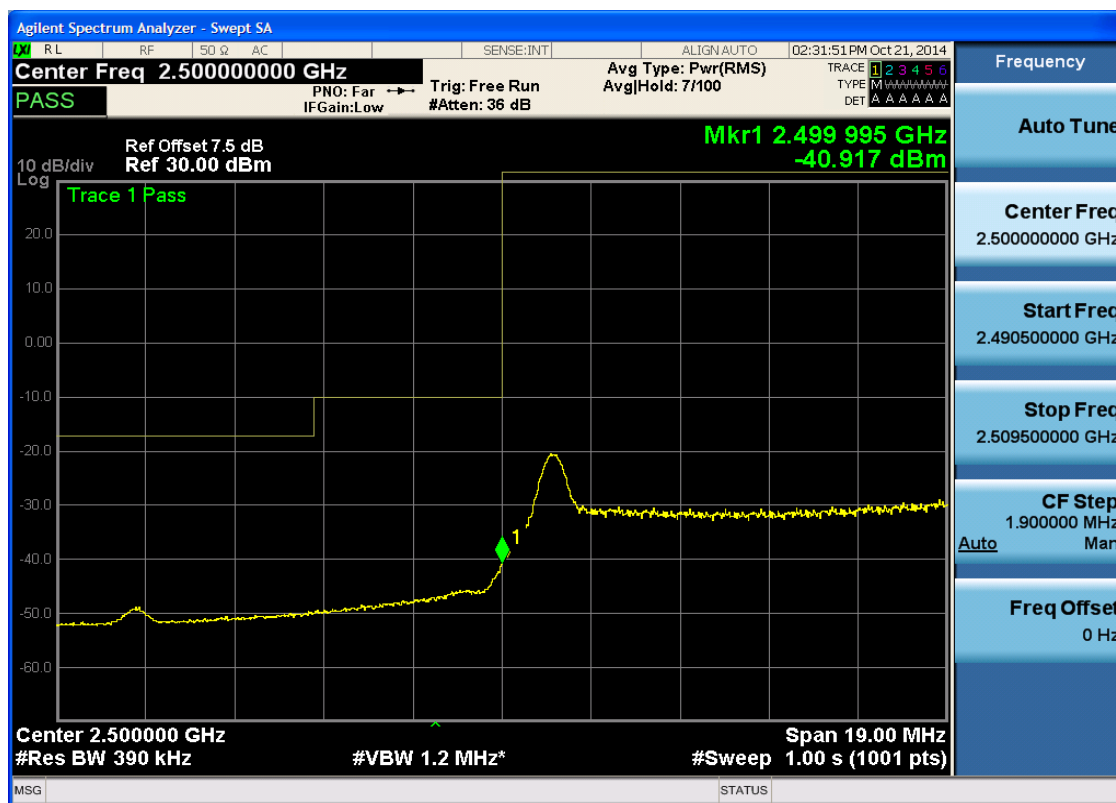
5.3.4.2.4.1 Test Channel = LCH

5.3.4.2.4.1.1 Test RB = RB1#0



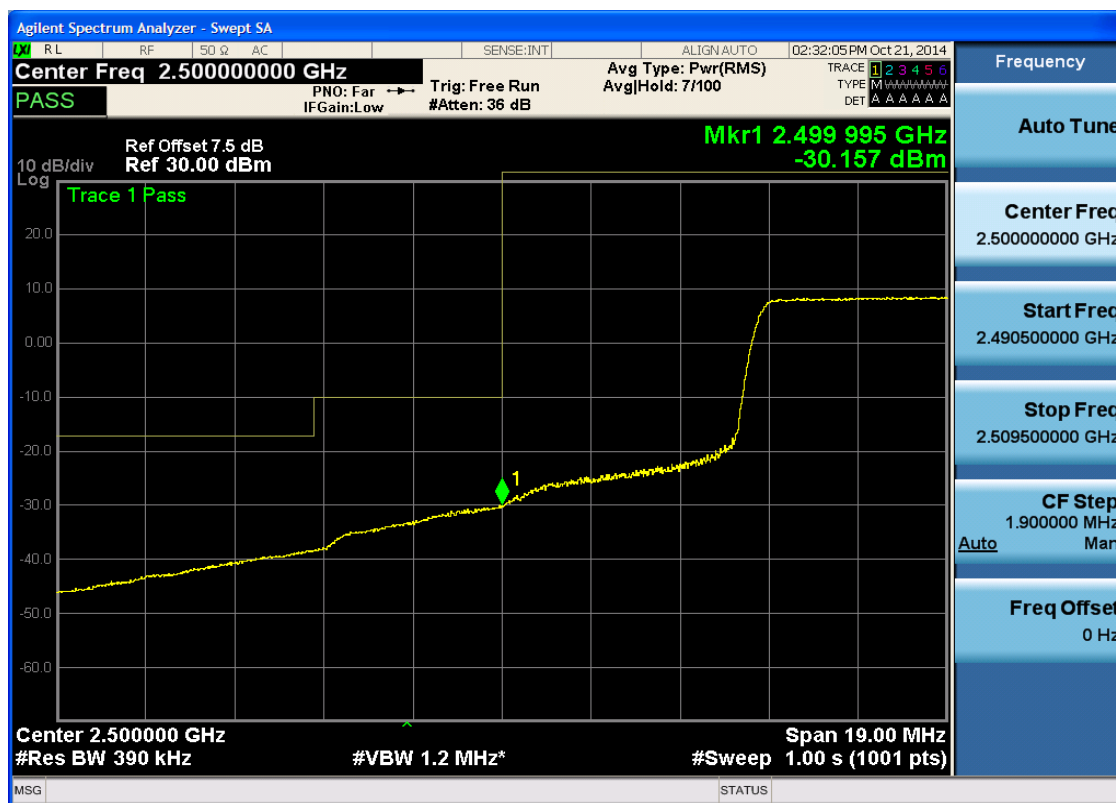


5.3.4.2.4.1.2 Test RB = RB1#99



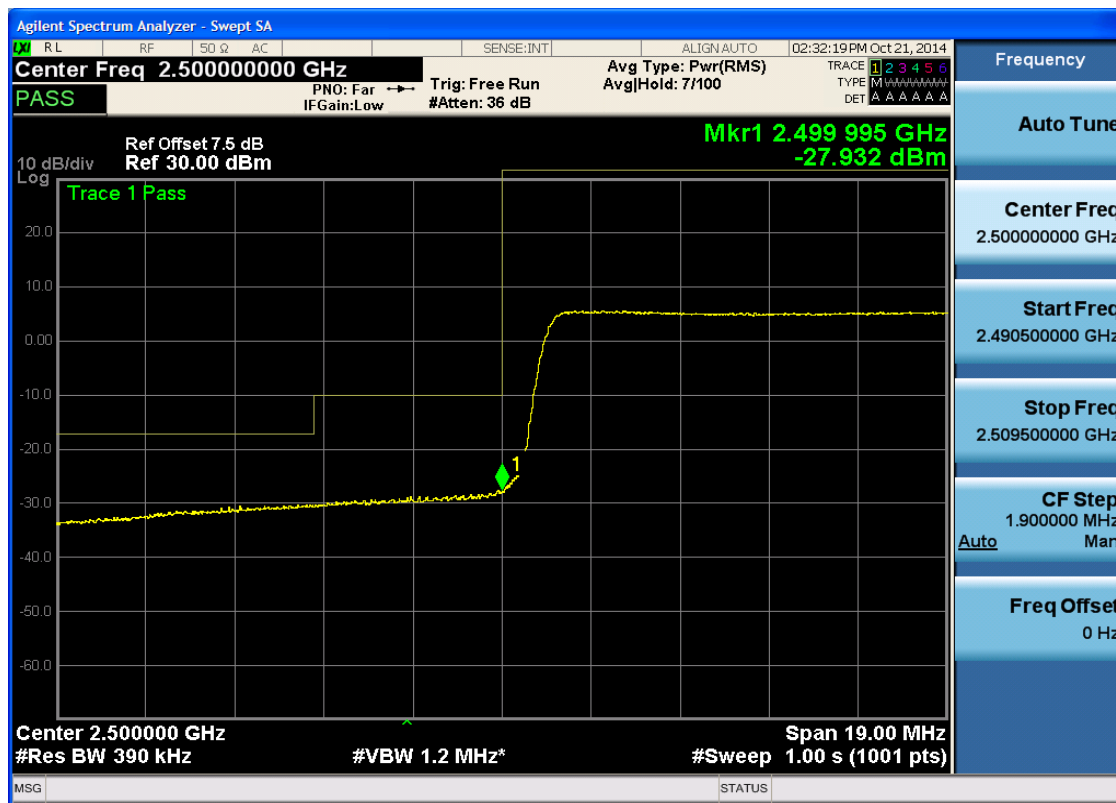


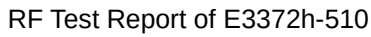
5.3.4.2.4.1.3 Test RB = RB50#25



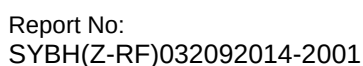


5.3.4.2.4.1.4 Test RB = RB100#0



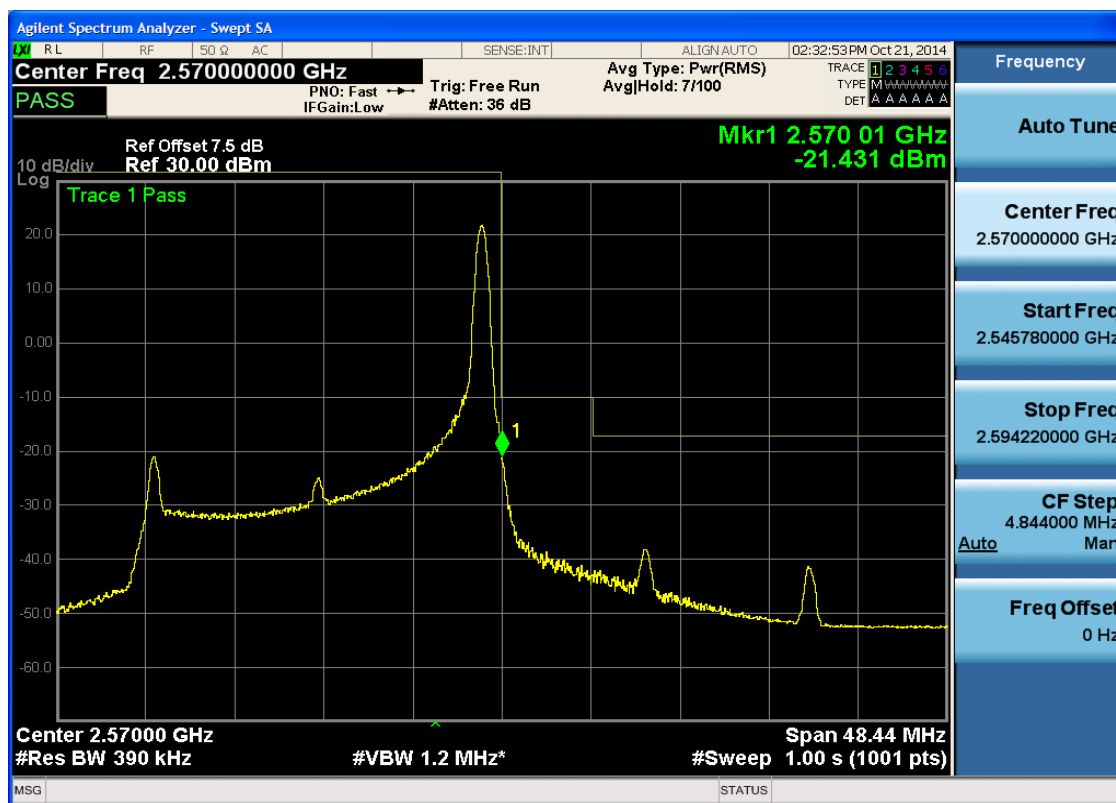


5.3.4.2.4.2.1 Test RB = RB1#0



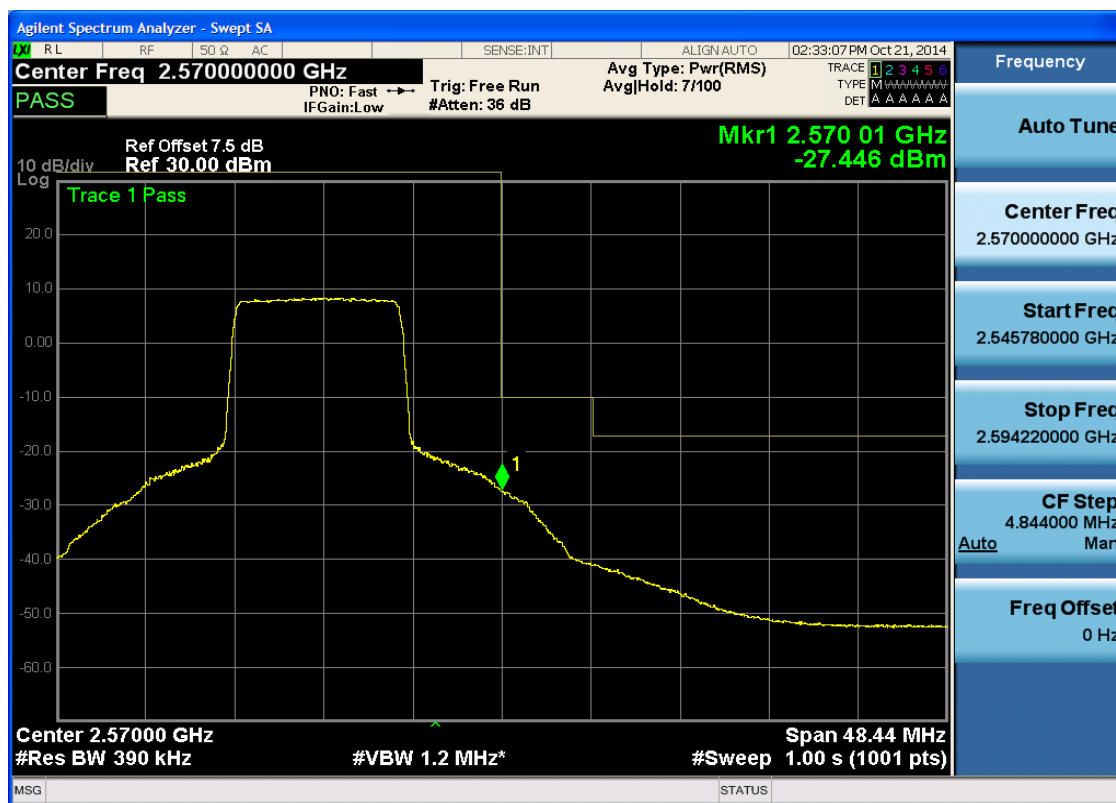


5.3.4.2.4.2.2 Test RB = RB1#99





5.3.4.2.4.2.3 Test RB = RB50#25





5.3.4.2.4.2.4 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

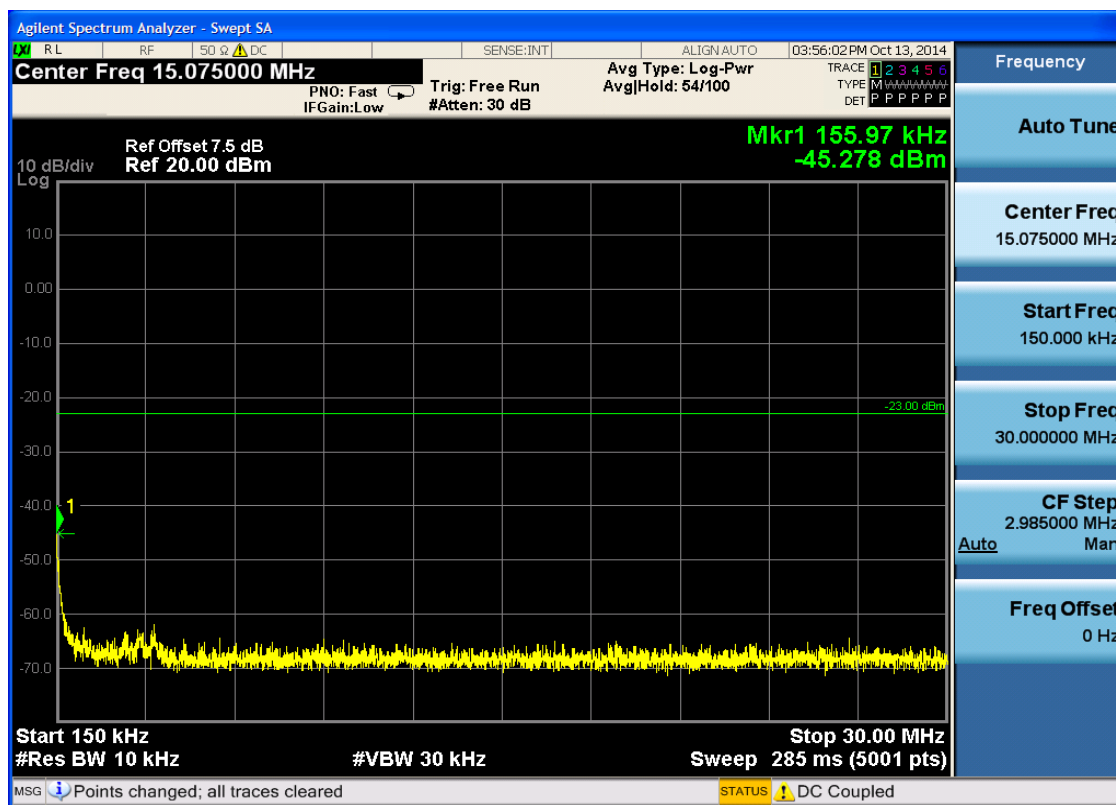
6.1 For GSM

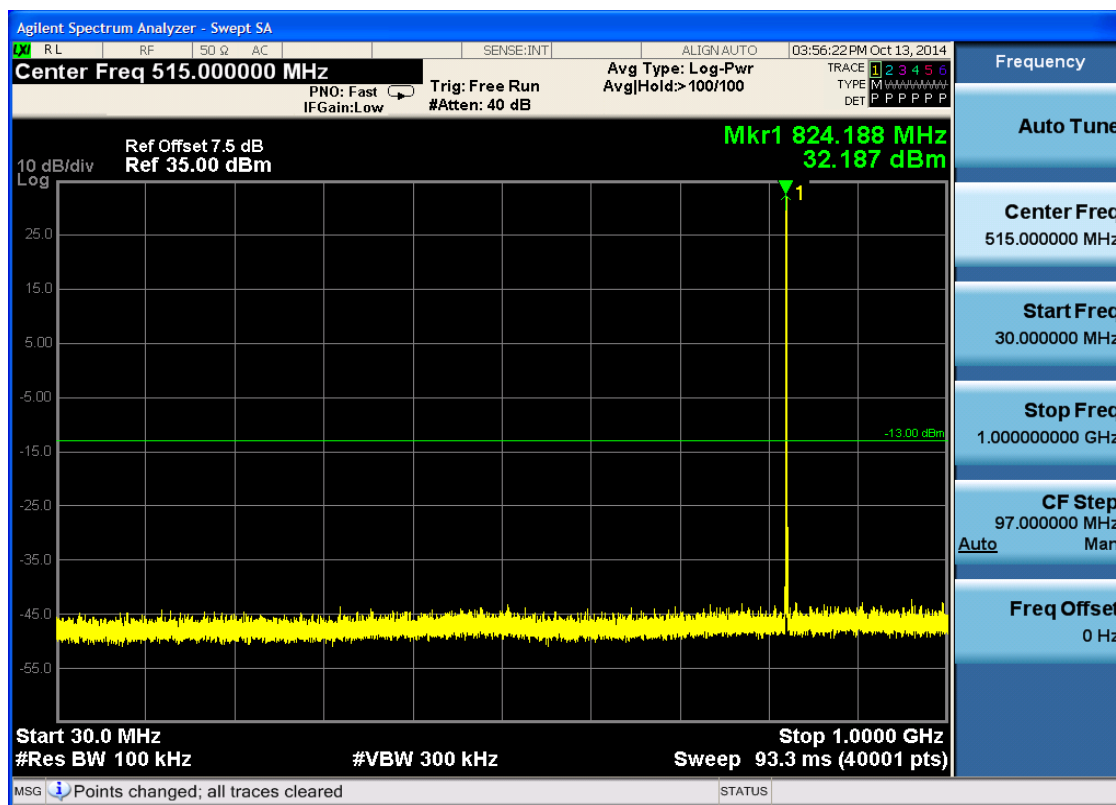
6.1.1 Test Band = GSM850

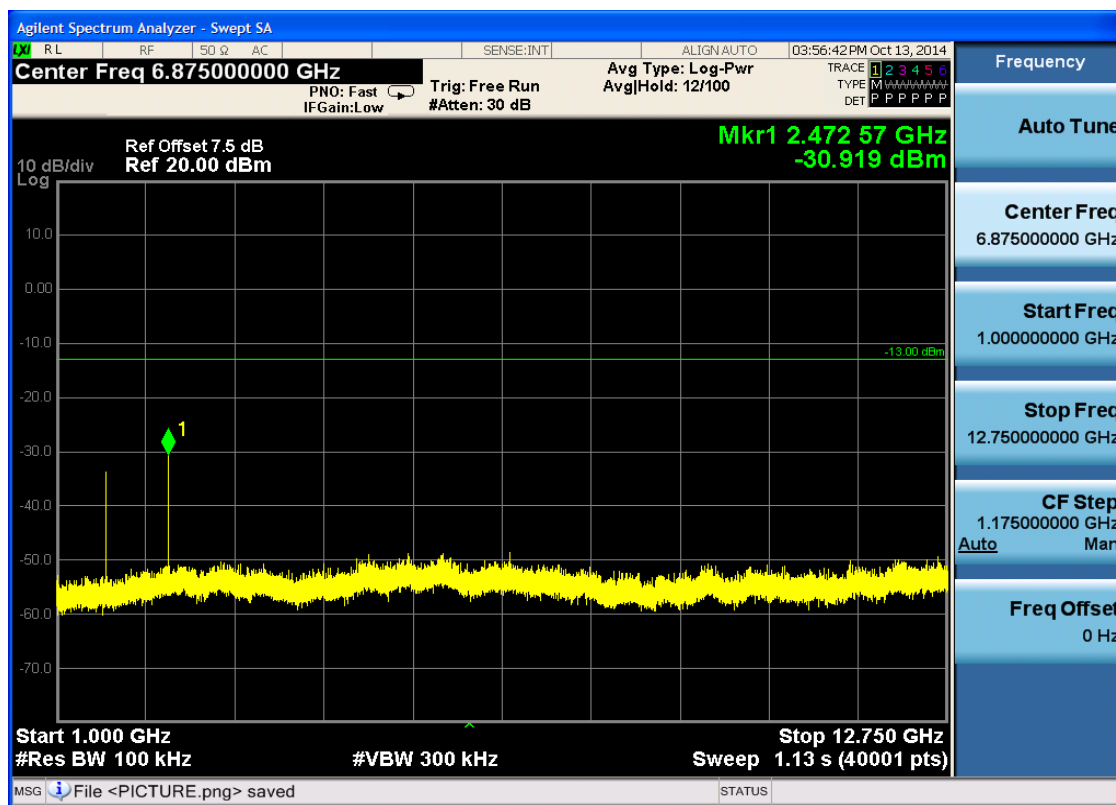
6.1.1.1 Test Mode = GSM/TM1

6.1.1.1.1 Test Channel = LCH

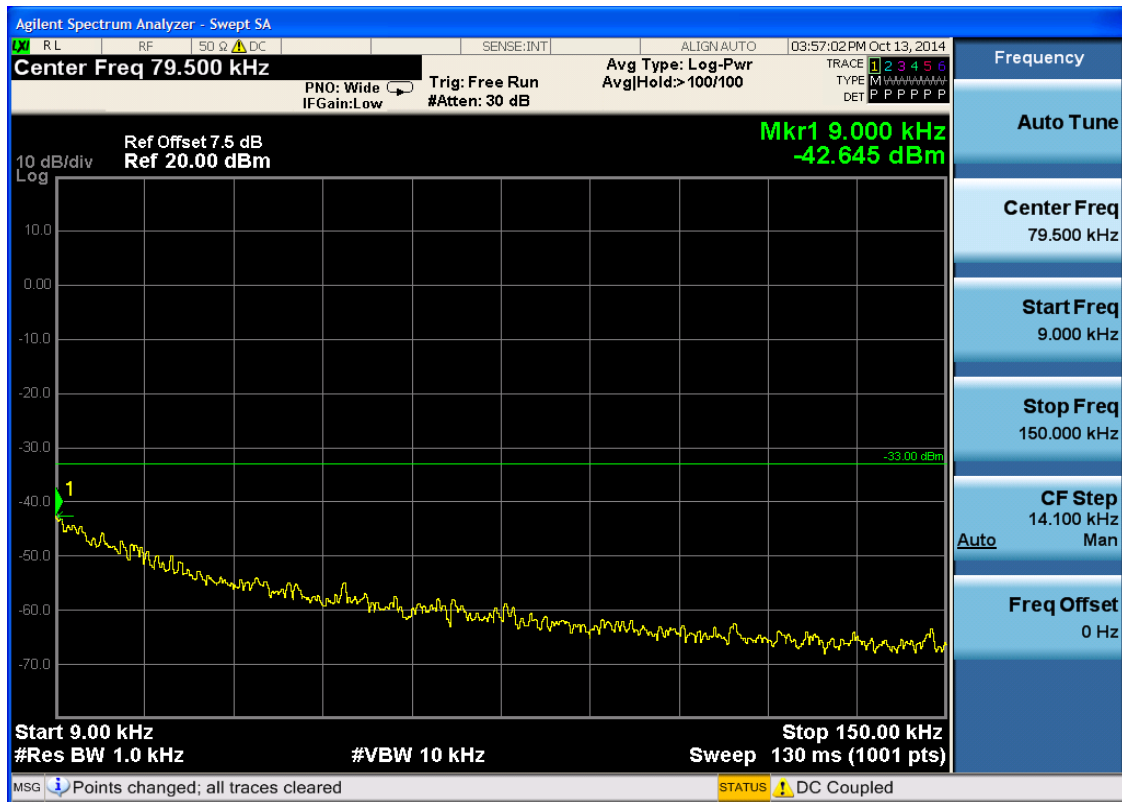


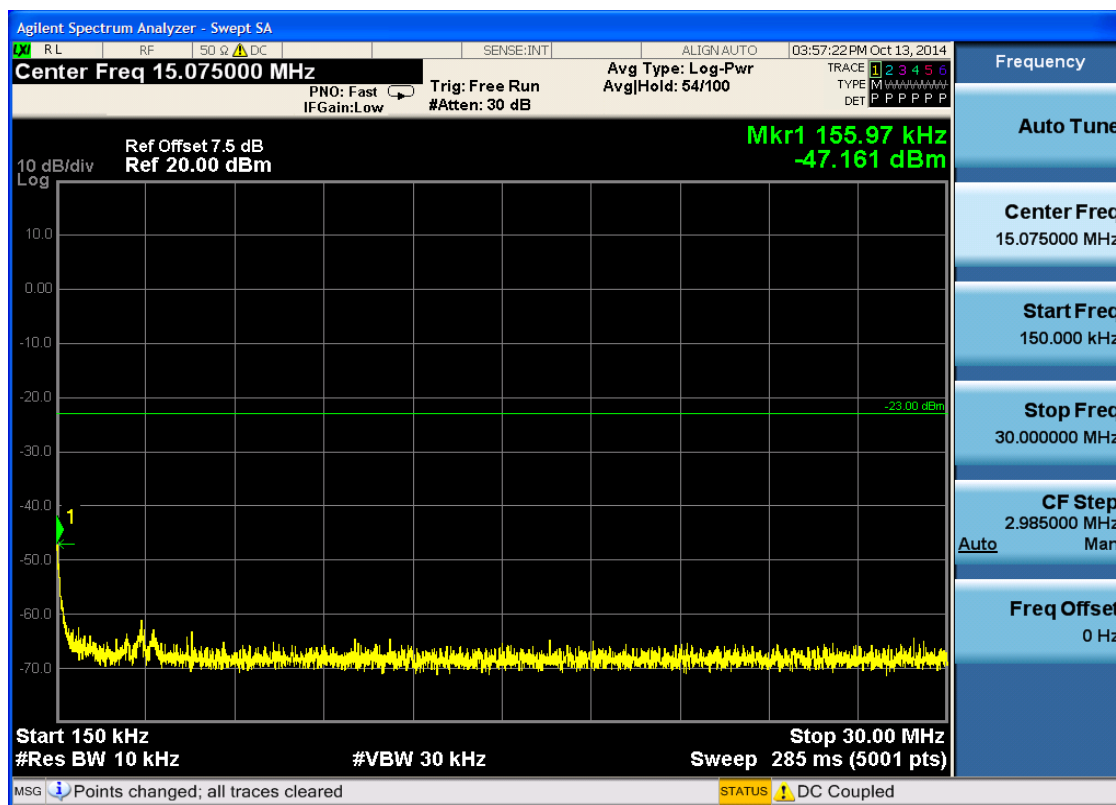


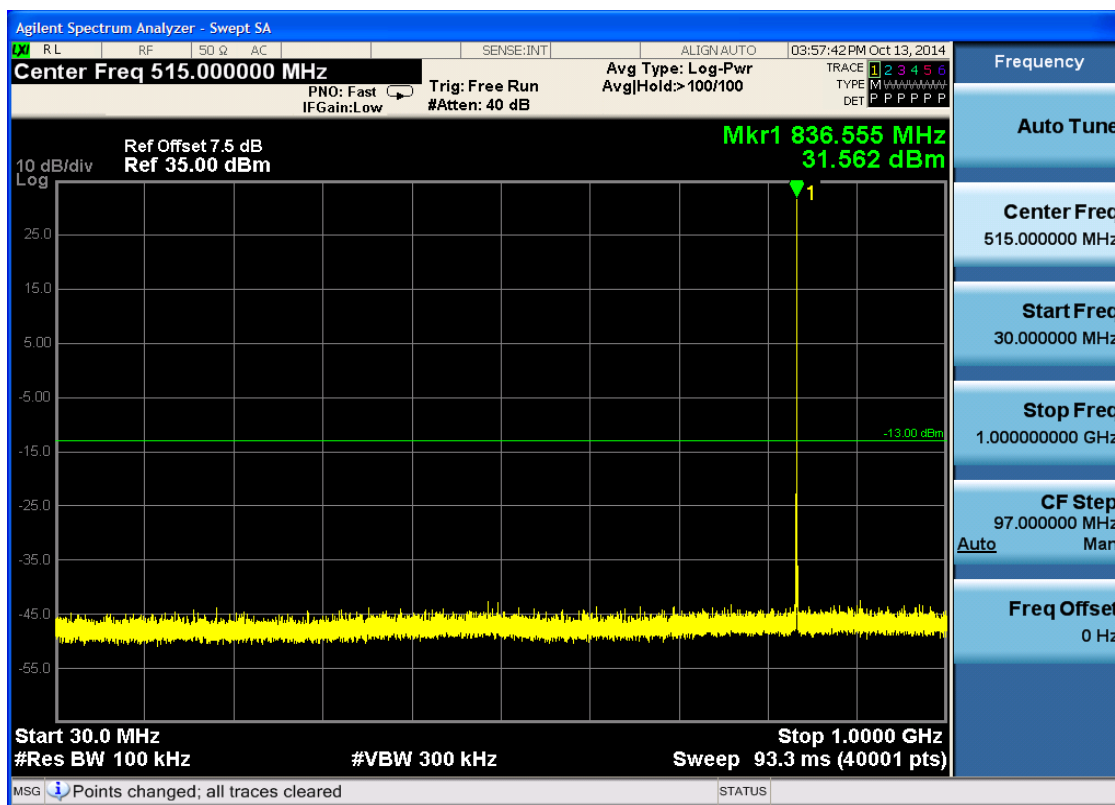


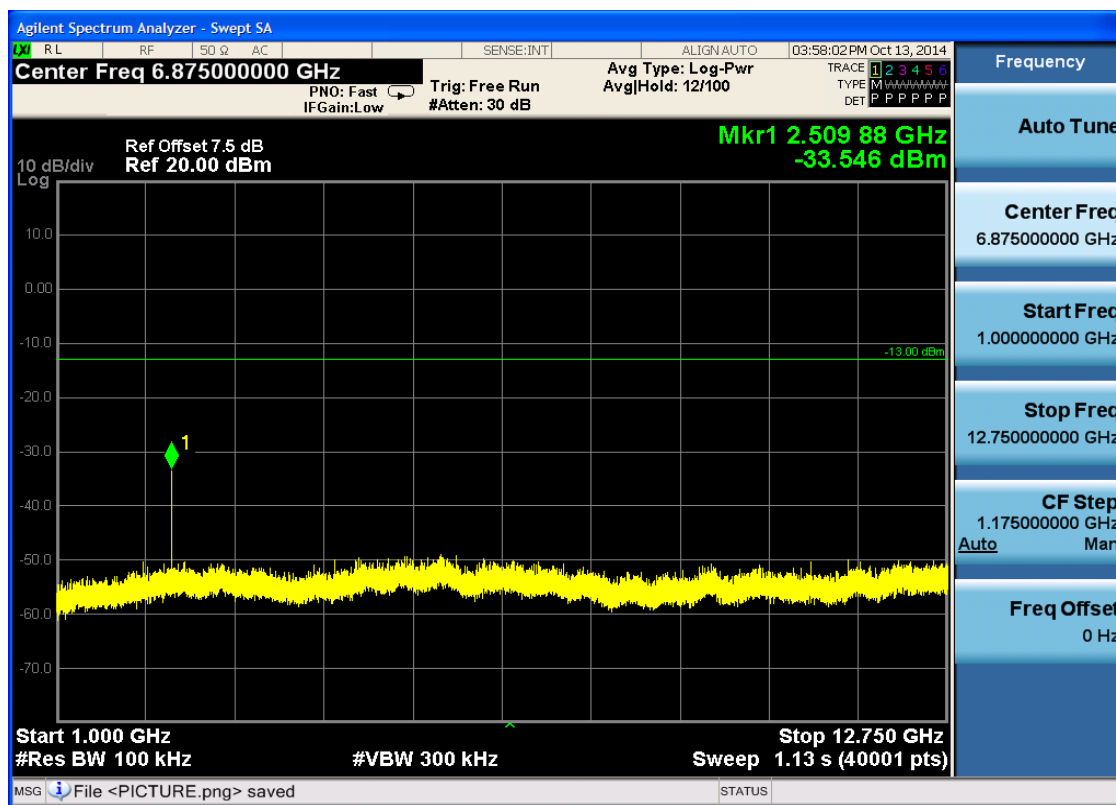


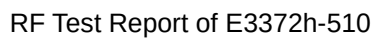
6.1.1.1.2 Test Channel = MCH











Agilent Spectrum Analyzer - Swept SA

RL RF 50.0 DC SENSE:INT ALIGN:AUTO 03:58:22 PM Oct 13, 2014

Center Freq 79.500 kHz PNO: Wide IFGain:Low Trig: Free Run #Atten: 30 dB Avg Type: Log-Pwr Avg/Hold: > 100/100

TRACE 1 2 3 4 5 6 TYPE M M M M M M M M DET P P P P P P

Ref Offset 7.5 dB Ref 20.00 dBm Mkr1 11.538 kHz -42.869 dBm

10 dB/div Log

Start 9.00 kHz Stop 150.00 kHz
#Res BW 1.0 kHz #VBW 10 kHz Sweep 130 ms (1001 pts)

MSG Points changed; all traces cleared STATUS DC Coupled

Frequency

Auto Tune

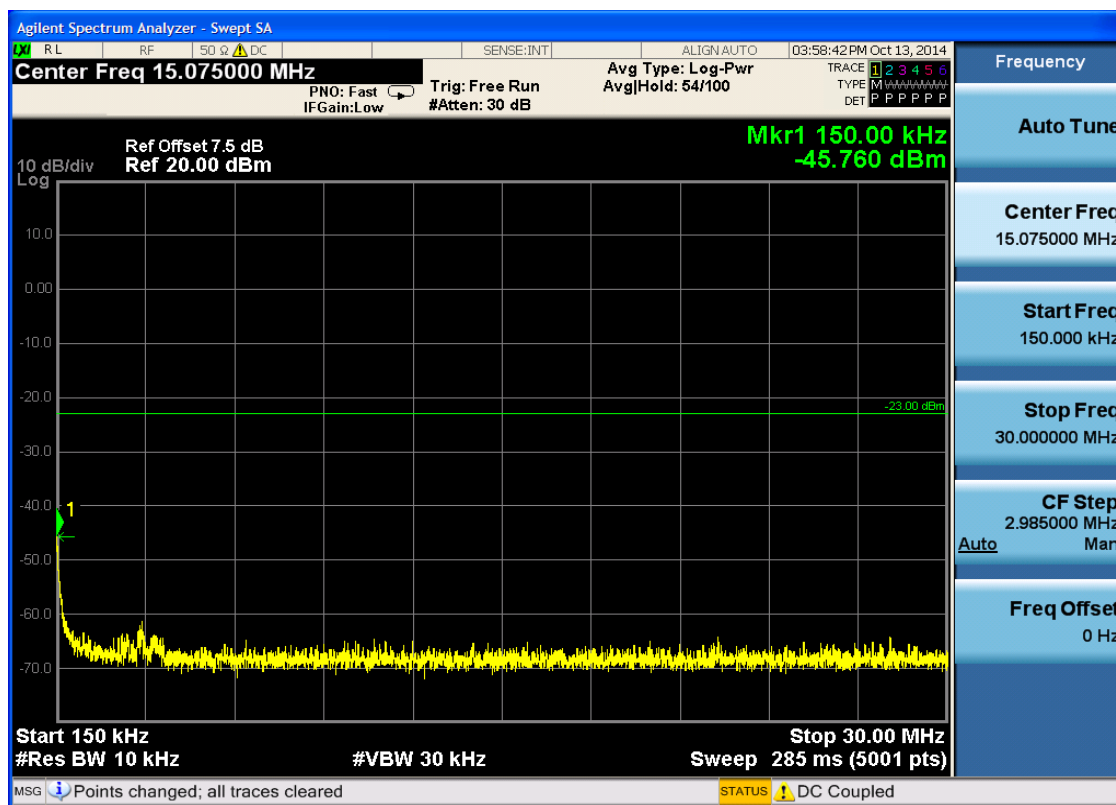
Center Freq 79.500 kHz

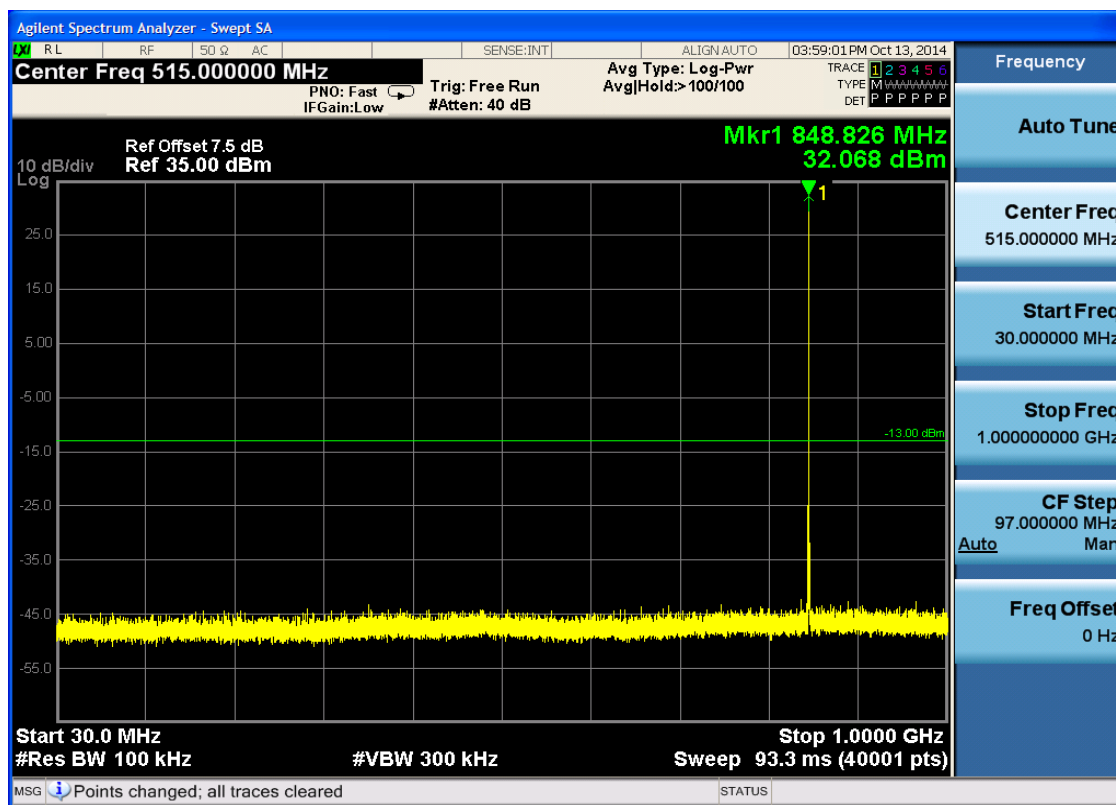
Start Freq 9.000 kHz

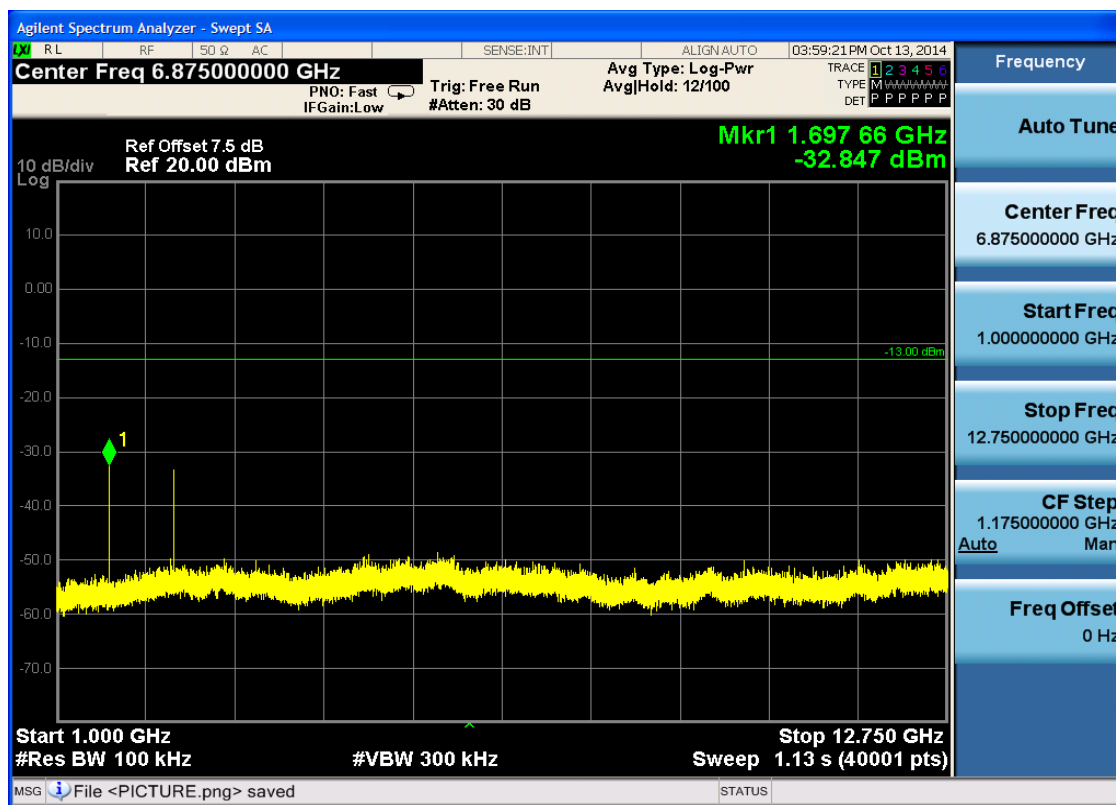
Stop Freq 150.000 kHz

CF Step 14.100 kHz
Auto Man

Freq Offset 0 Hz

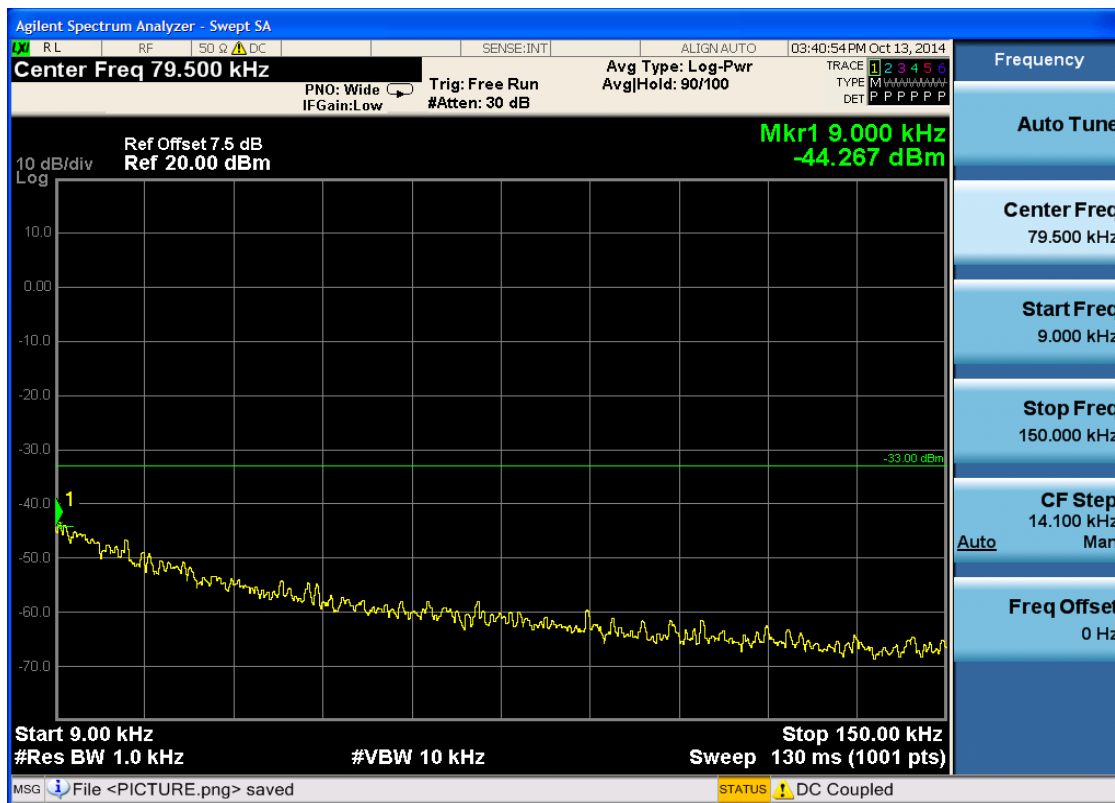


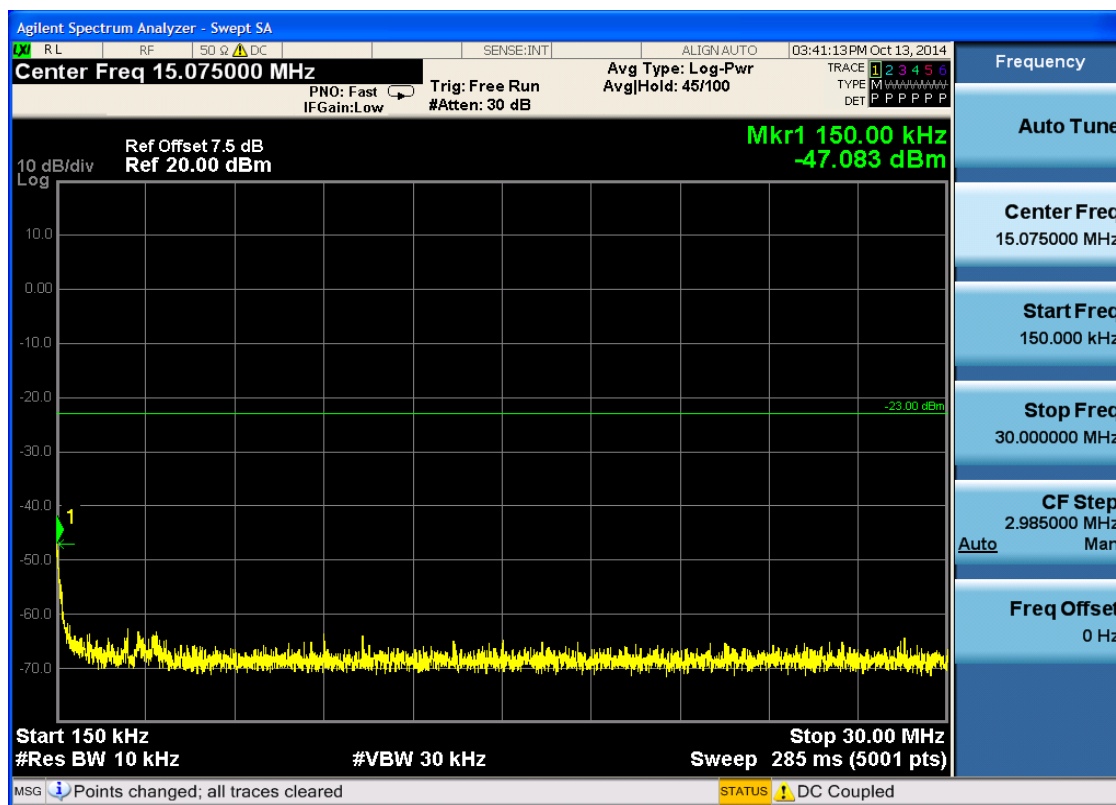


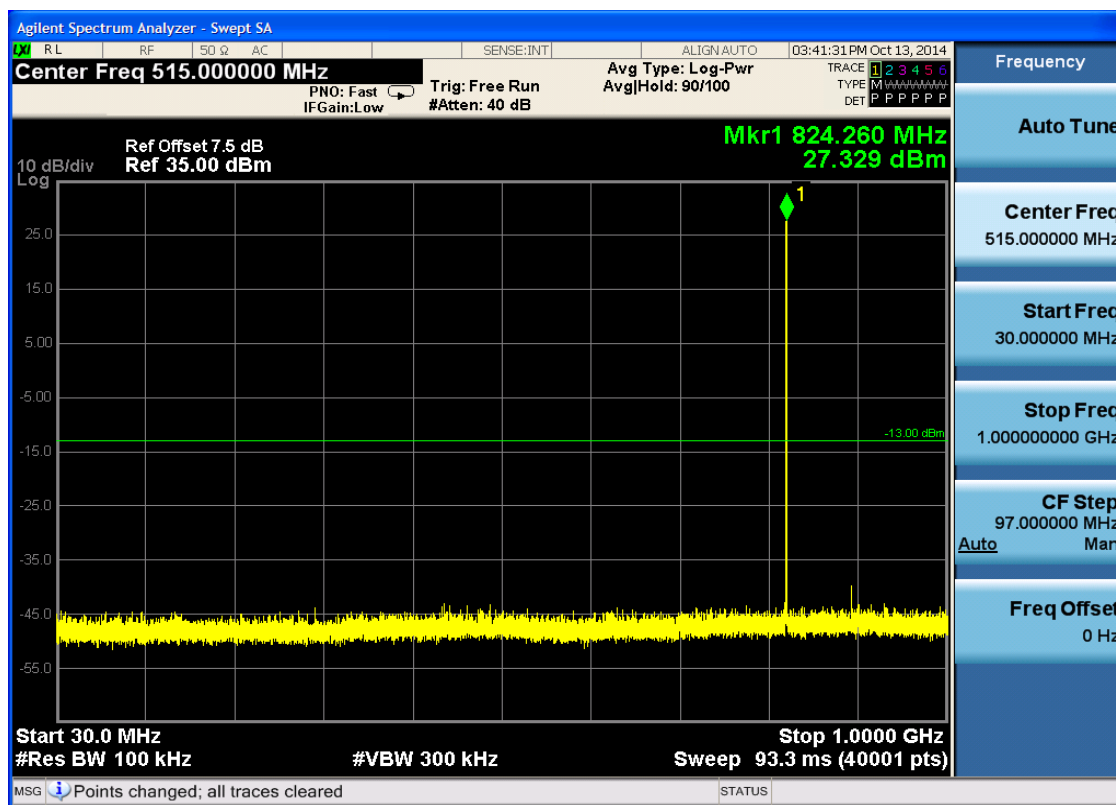


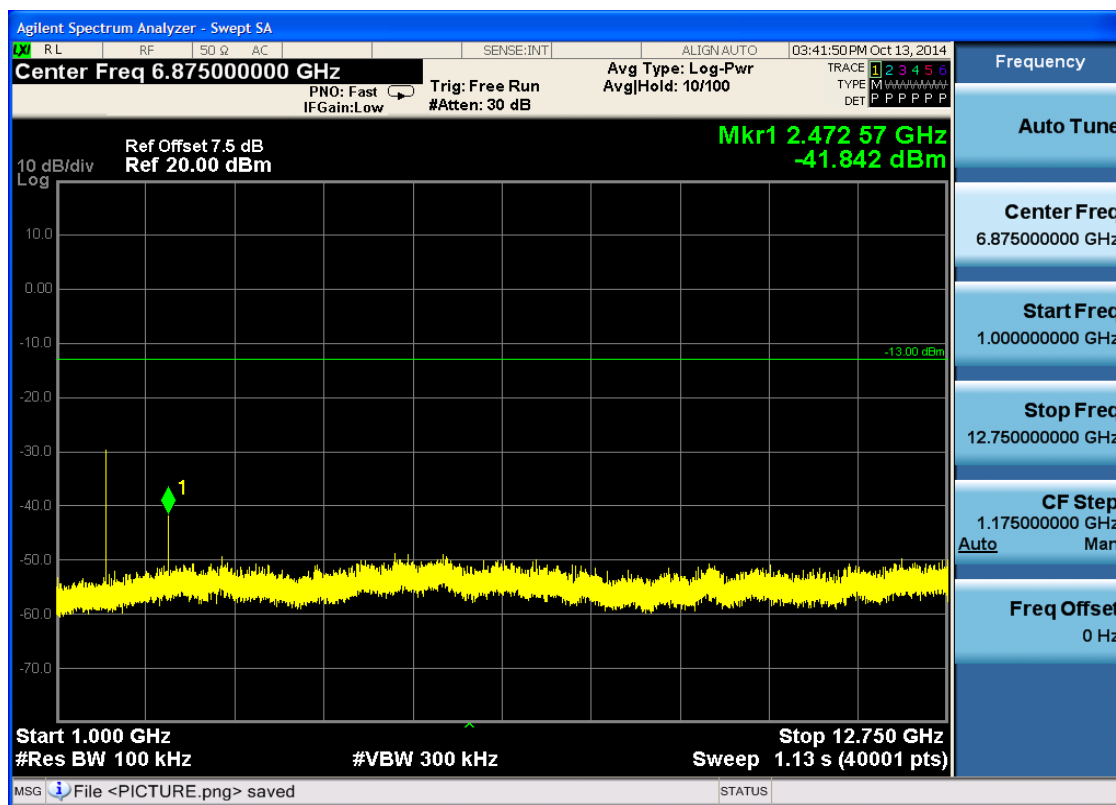
6.1.1.2 Test Mode = GSM/TM2

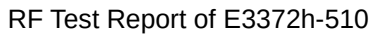
6.1.1.2.1 Test Channel = LCH











Agilent Spectrum Analyzer - Swept SA

R L RF 50 Ω DC SENSE:INT ALIGN AUTO 03:42:10 PM Oct 13, 2014

Center Freq 79.500 kHz

PNO: Wide IFGain:Low Trig: Free Run #Atten: 30 dB Avg Type: Log-Pwr AvgHld: 90/100

TRACE 1 2 3 4 5 6
TYPE M M M M M M M M
DET P P P P P P P

Ref Offset 7.5 dB
Ref 20.00 dBm

Mkr1 9.000 kHz
-42.863 dBm

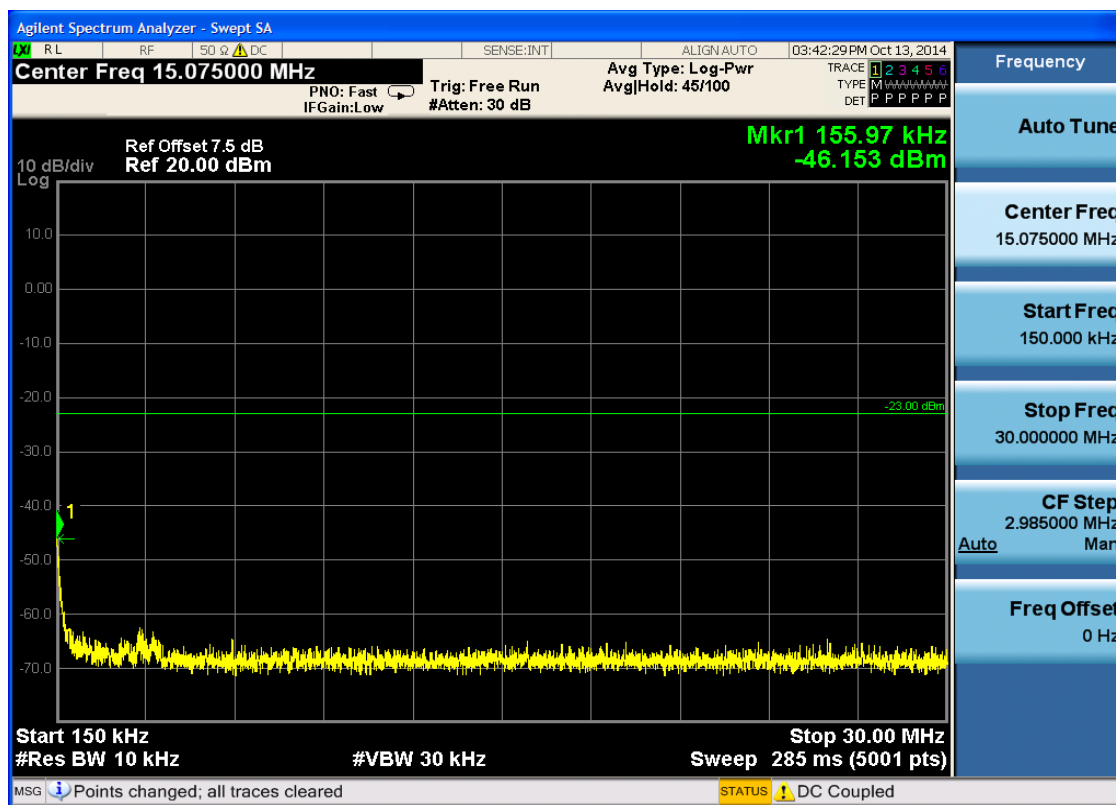
10 dB/div
Log

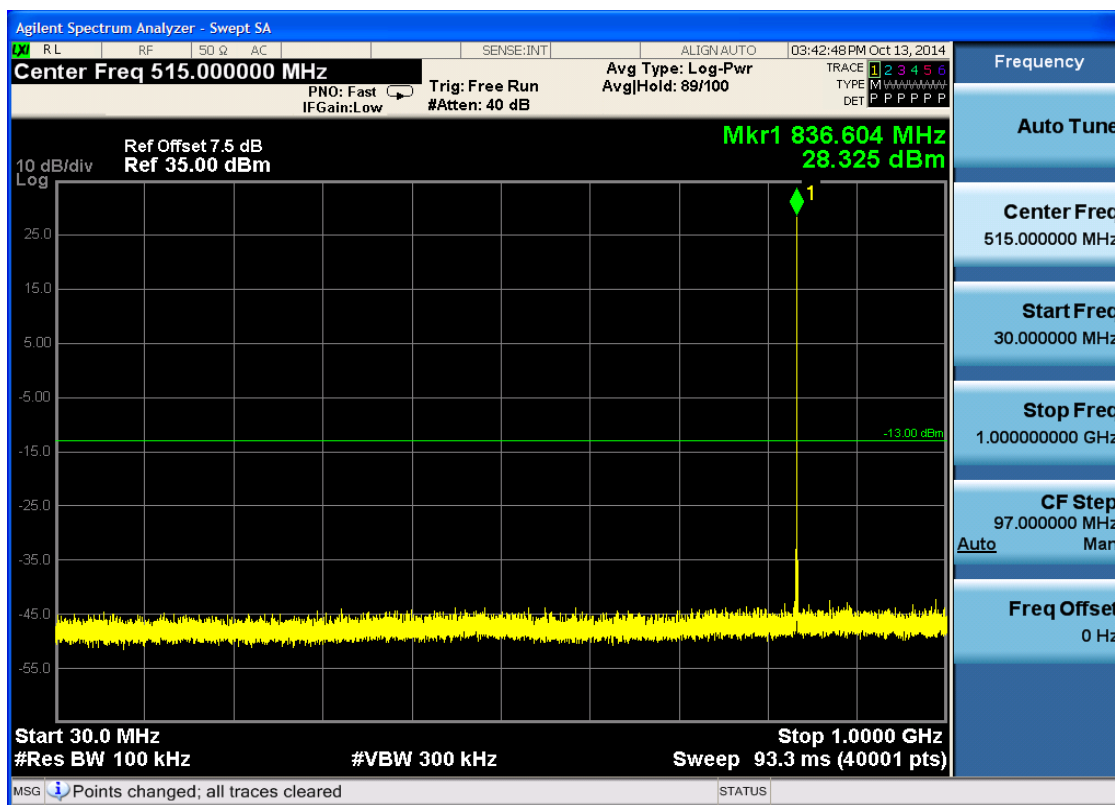
-33.00 dBm

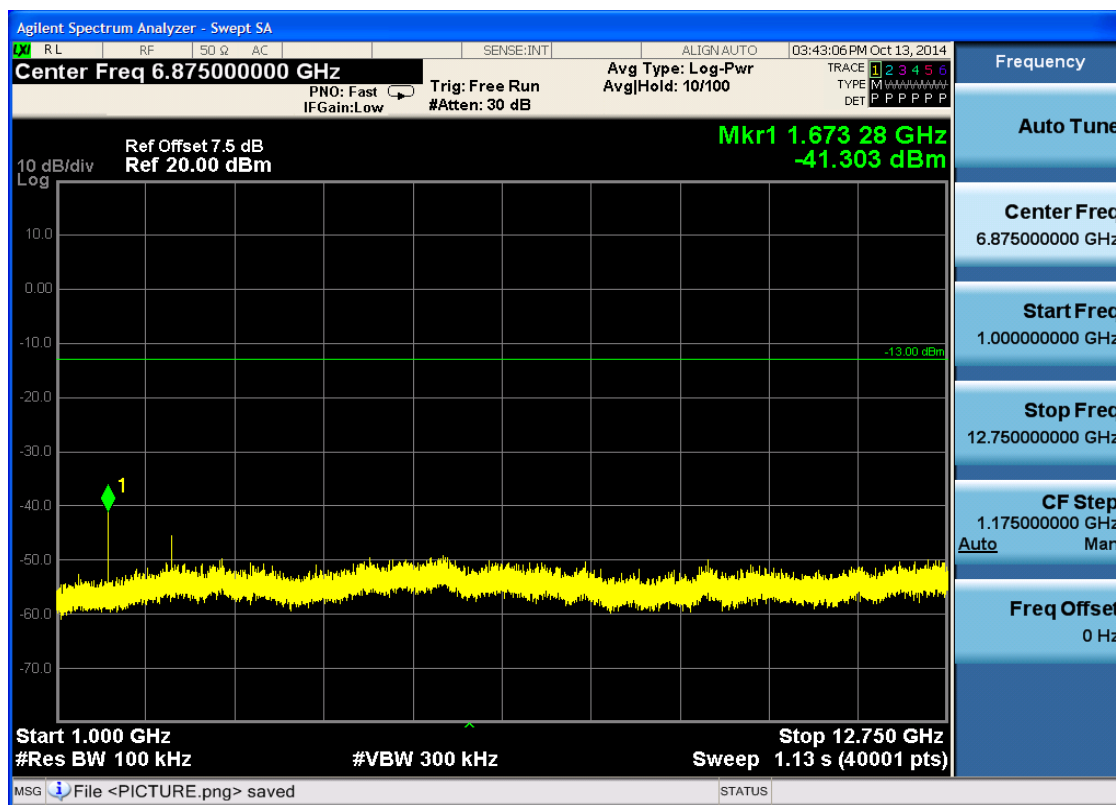
Start 9.00 kHz #Res BW 1.0 kHz #VBW 10 kHz Stop 150.00 kHz Sweep 130 ms (1001 pts)

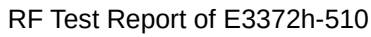
MSG Points changed; all traces cleared STATUS DC Coupled

Frequency
Auto Tune
Center Freq 79.500 kHz
Start Freq 9.000 kHz
Stop Freq 150.000 kHz
CF Step 14.100 kHz <u>Auto</u> Man
Freq Offset 0 Hz









Agilent Spectrum Analyzer - Swept SA

Center Freq 79.500 kHz

PNO: Wide IF Gain: Low Trig: Free Run #Atten: 30 dB

Avg Type: Log-Pwr Avg|Hold: 90/100

TRACE 1 2 3 4 5 6
TYPE M M M M M M
DET P P P P P P

03:43:26 PM Oct 13, 2014

Frequency

Auto Tune

Center Freq 79.500 kHz

Start Freq 9.000 kHz

Stop Freq 150.000 kHz

CF Step 14.100 kHz Man

Auto

Freq Offset 0 Hz

Ref Offset 7.5 dB
Ref 20.00 dBm

Mkr1 9.564 kHz
-42.065 dBm

10 dB/div
Log

-33.00 dBm

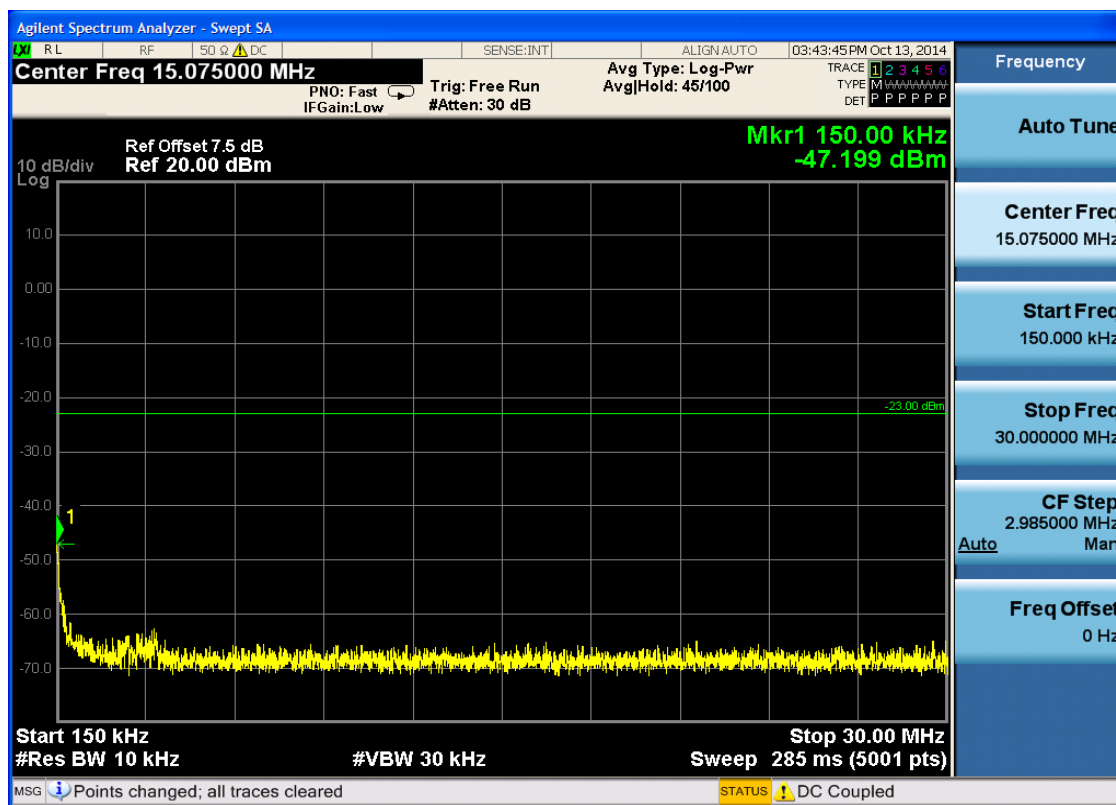
Start 9.00 kHz
#Res BW 1.0 kHz

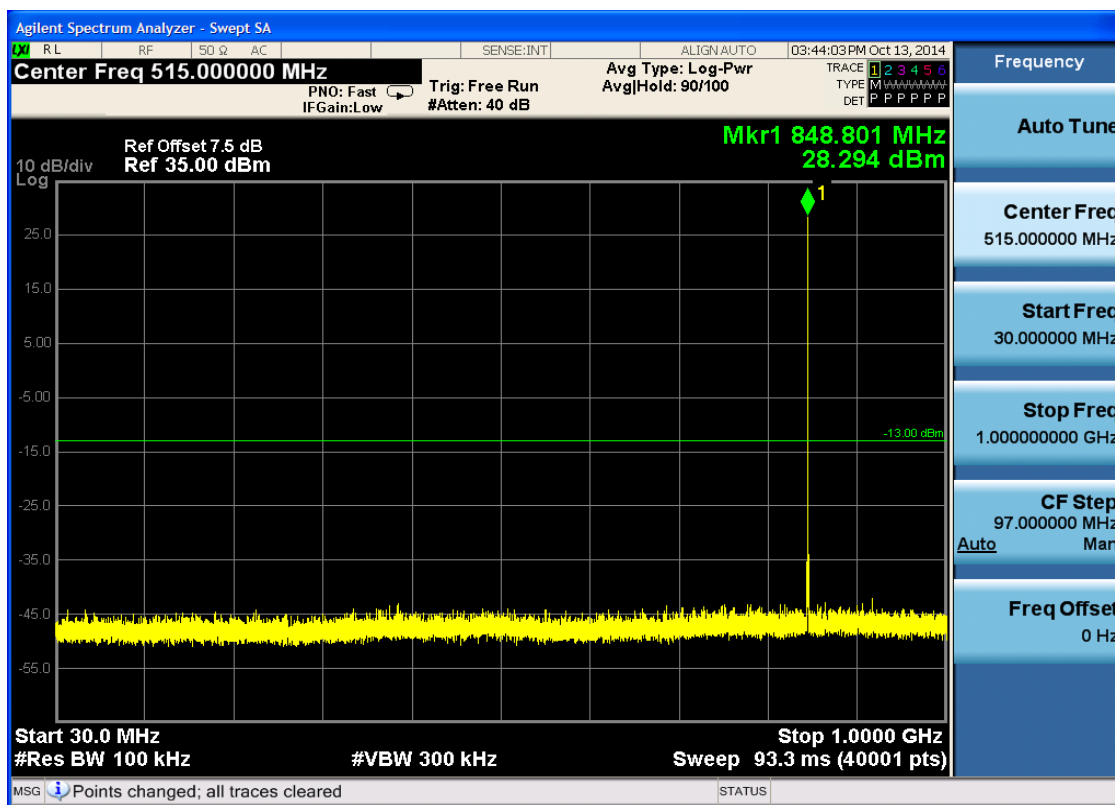
Stop 150.00 kHz
Sweep 130 ms (1001 pts)

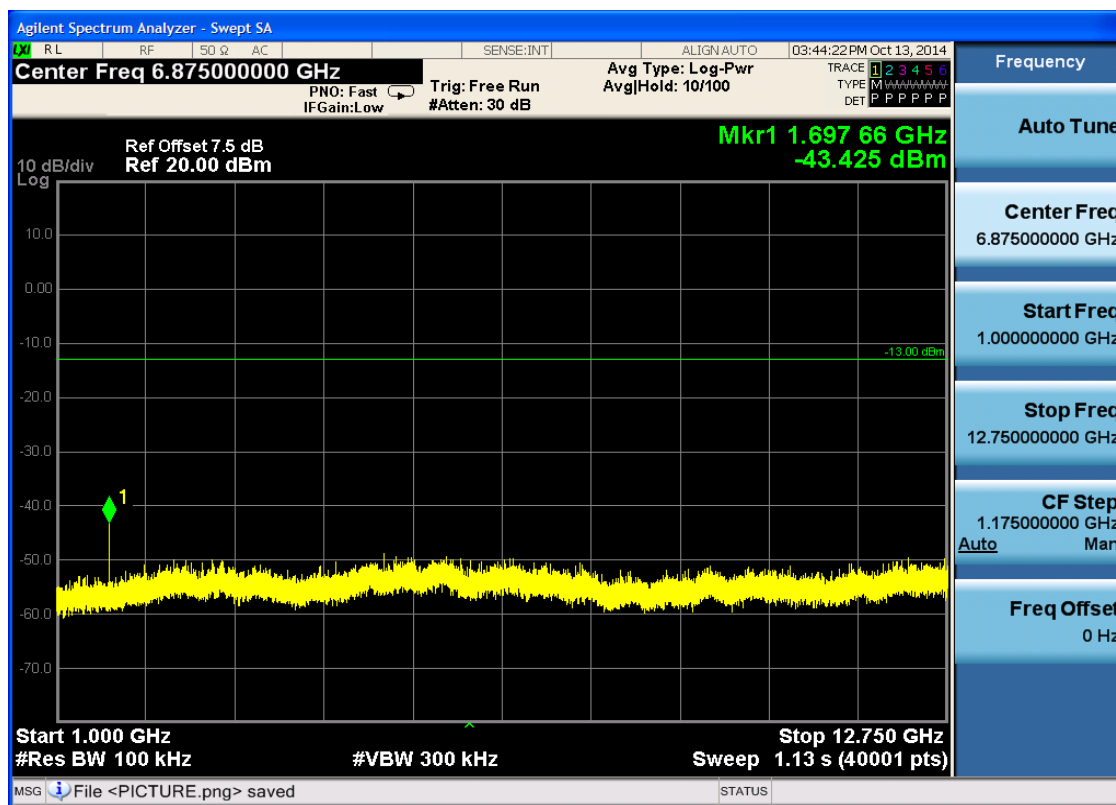
#VBW 10 kHz

MSG Points changed; all traces cleared

STATUS DC Coupled





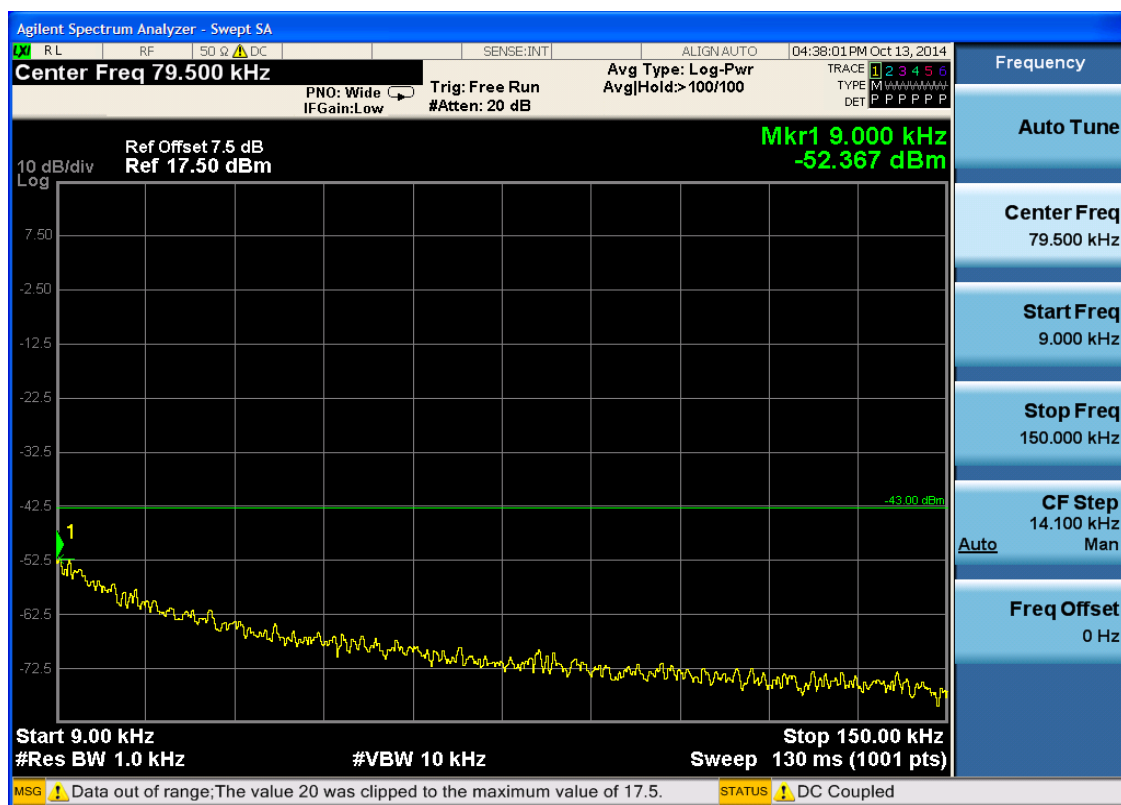


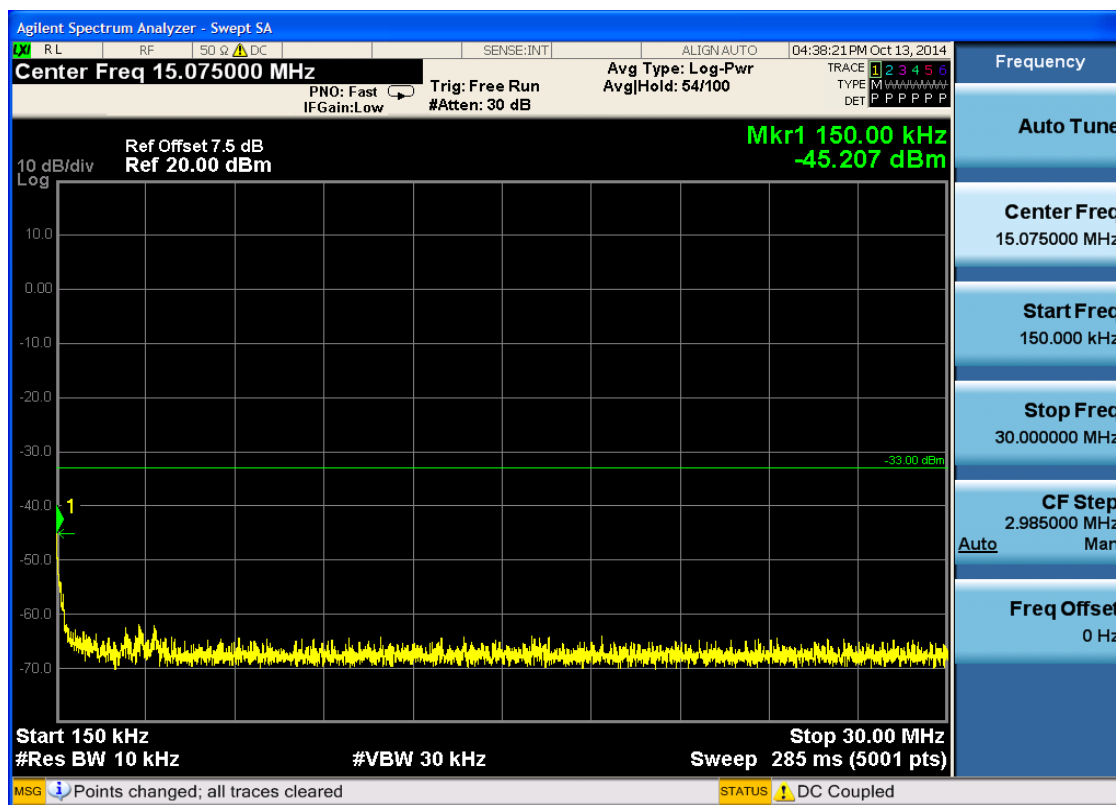


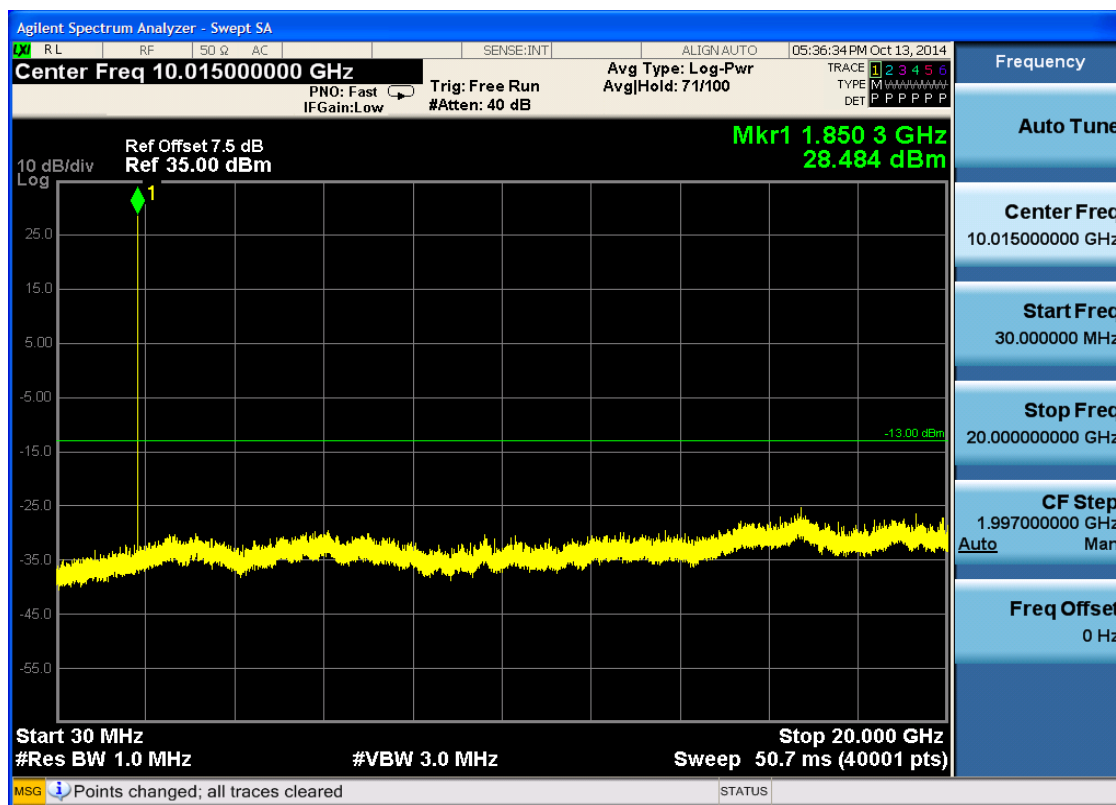
6.1.2 Test Band = GSM1900

6.1.2.1 Test Mode = GSM/TM1

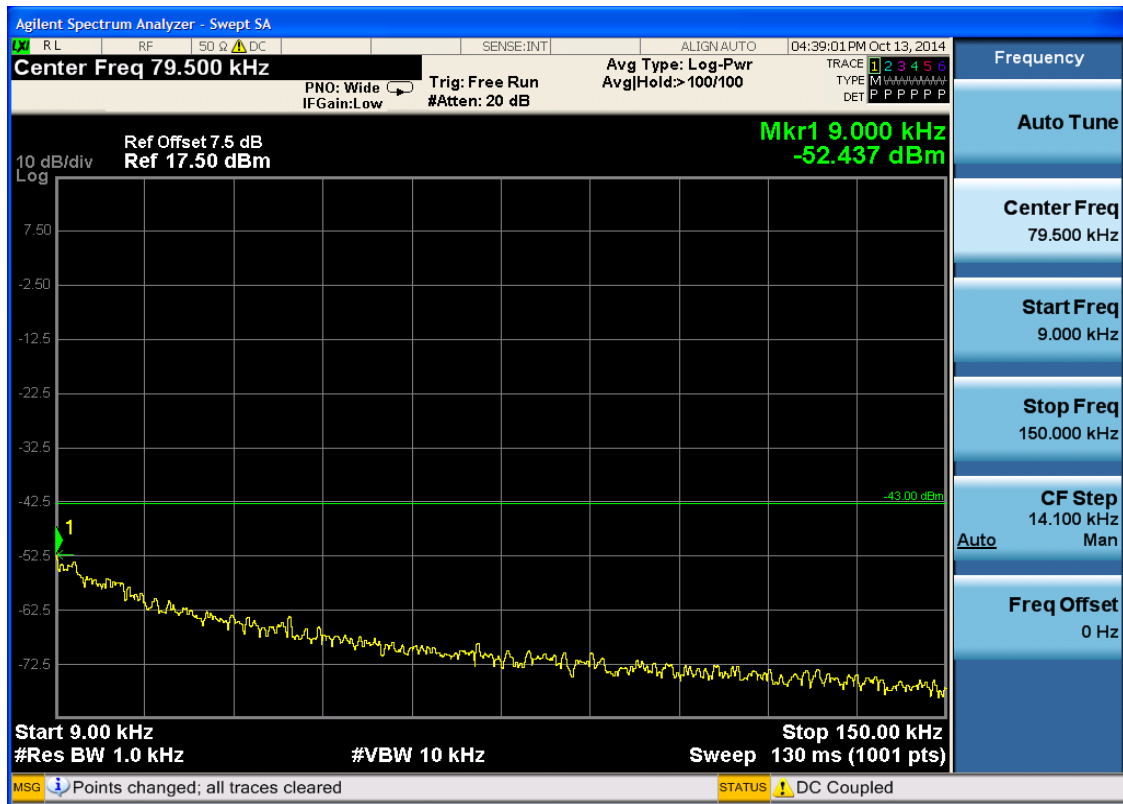
6.1.2.1.1 Test Channel = LCH

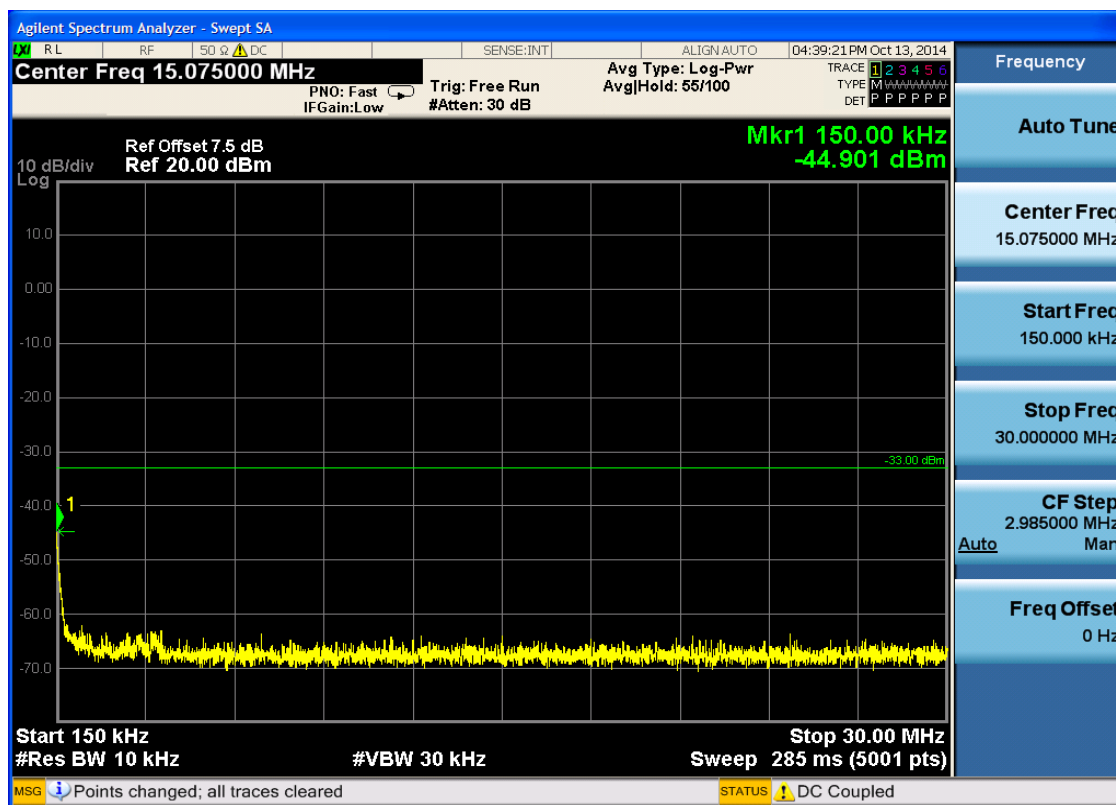


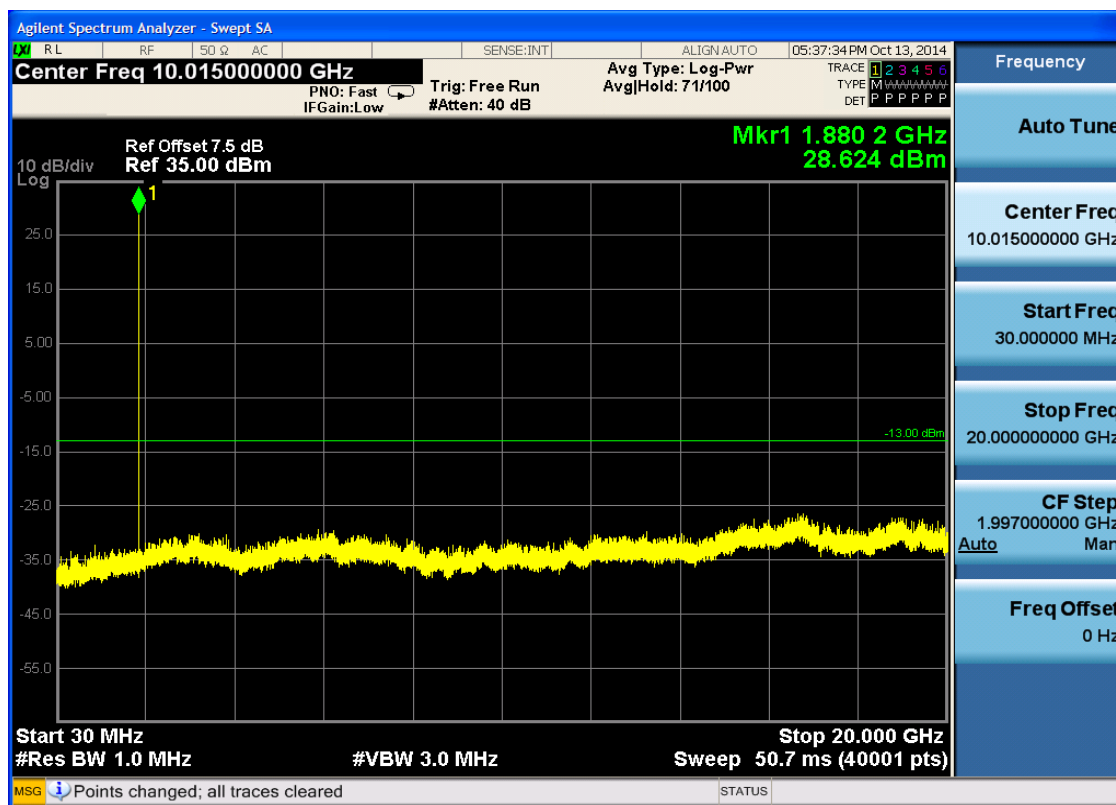




6.1.2.1.2 Test Channel = MCH

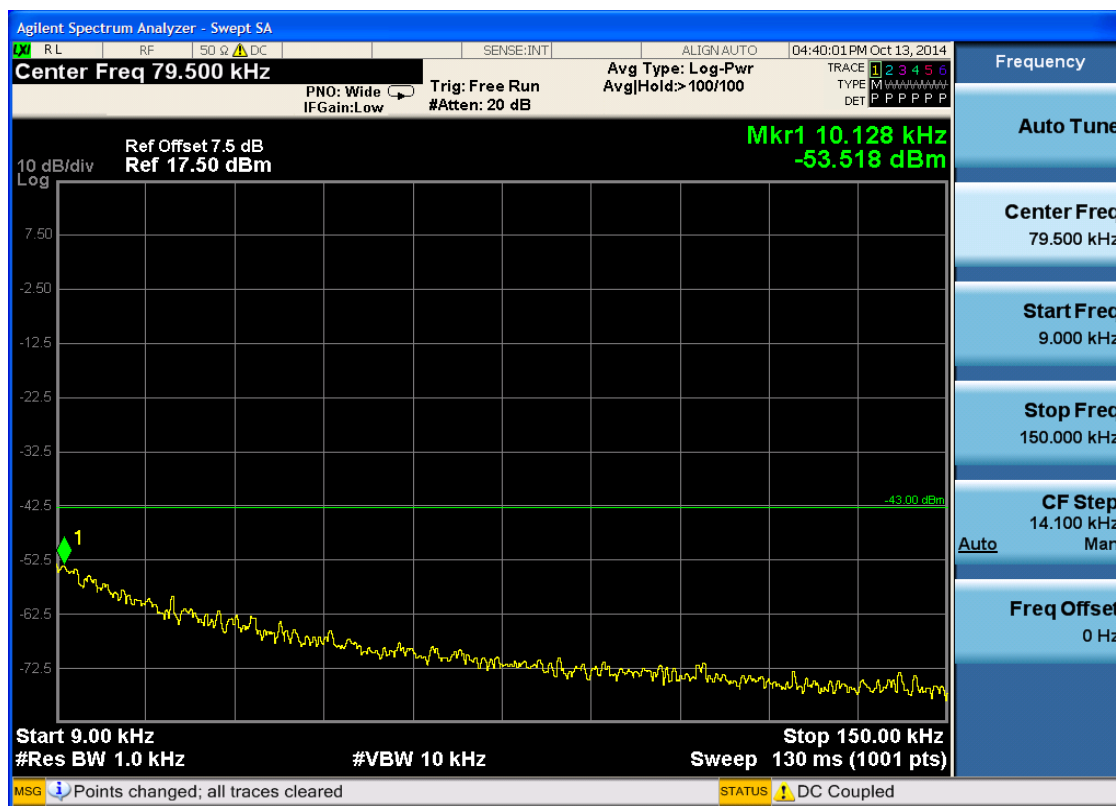


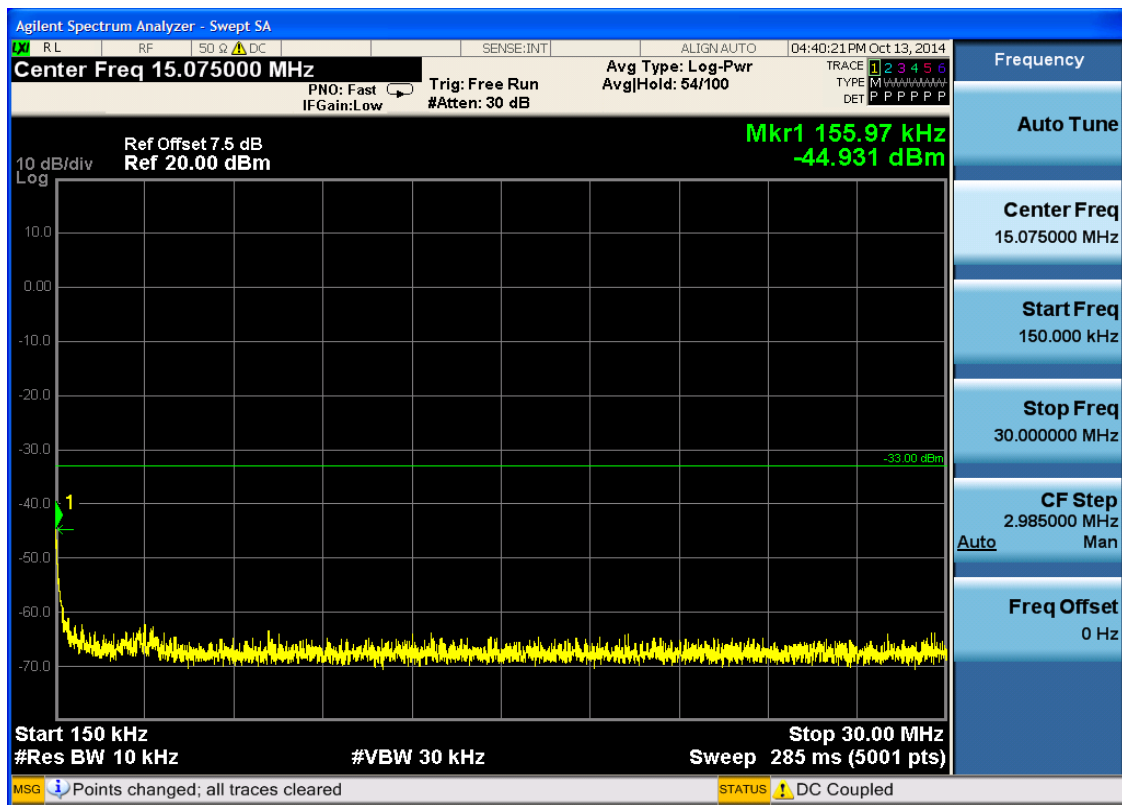


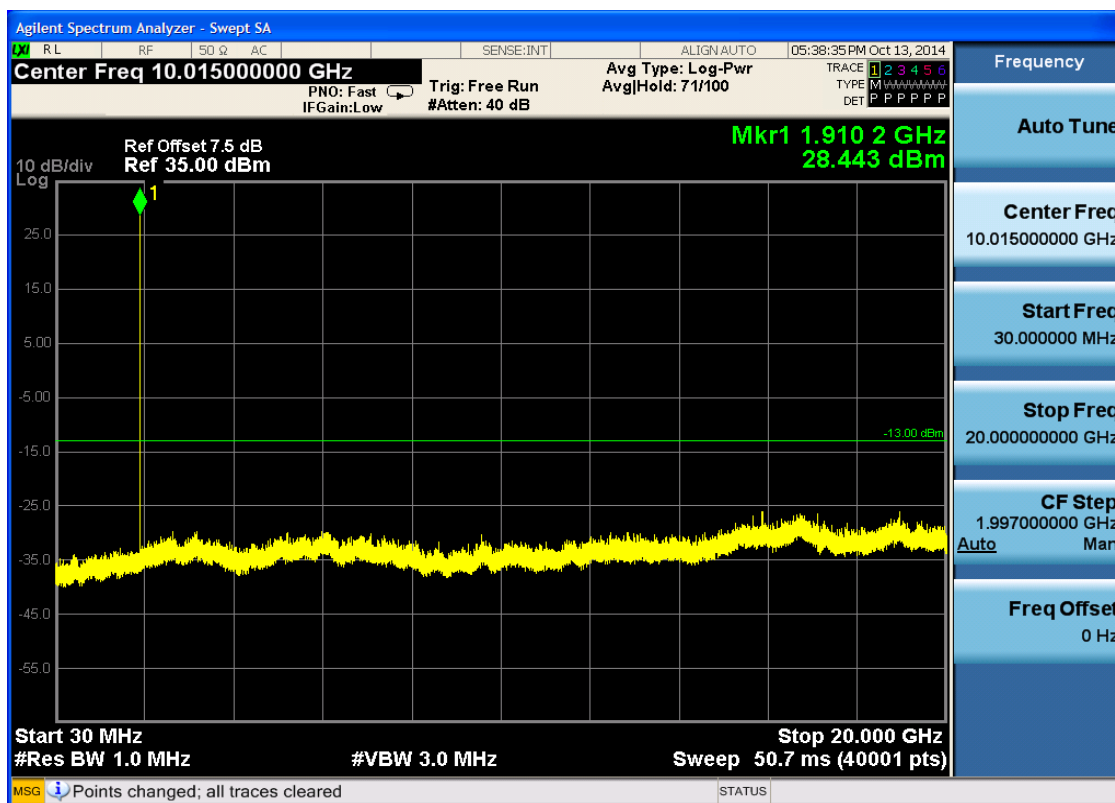




6.1.2.1.3 Test Channel = HCH

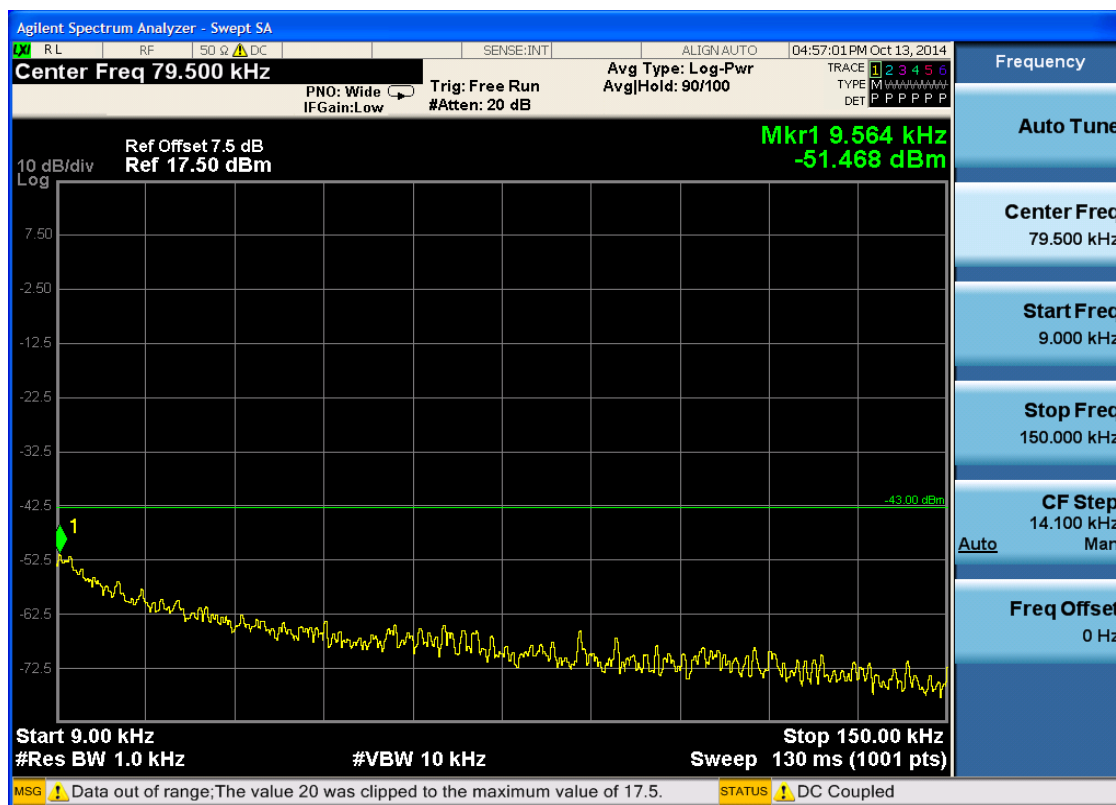


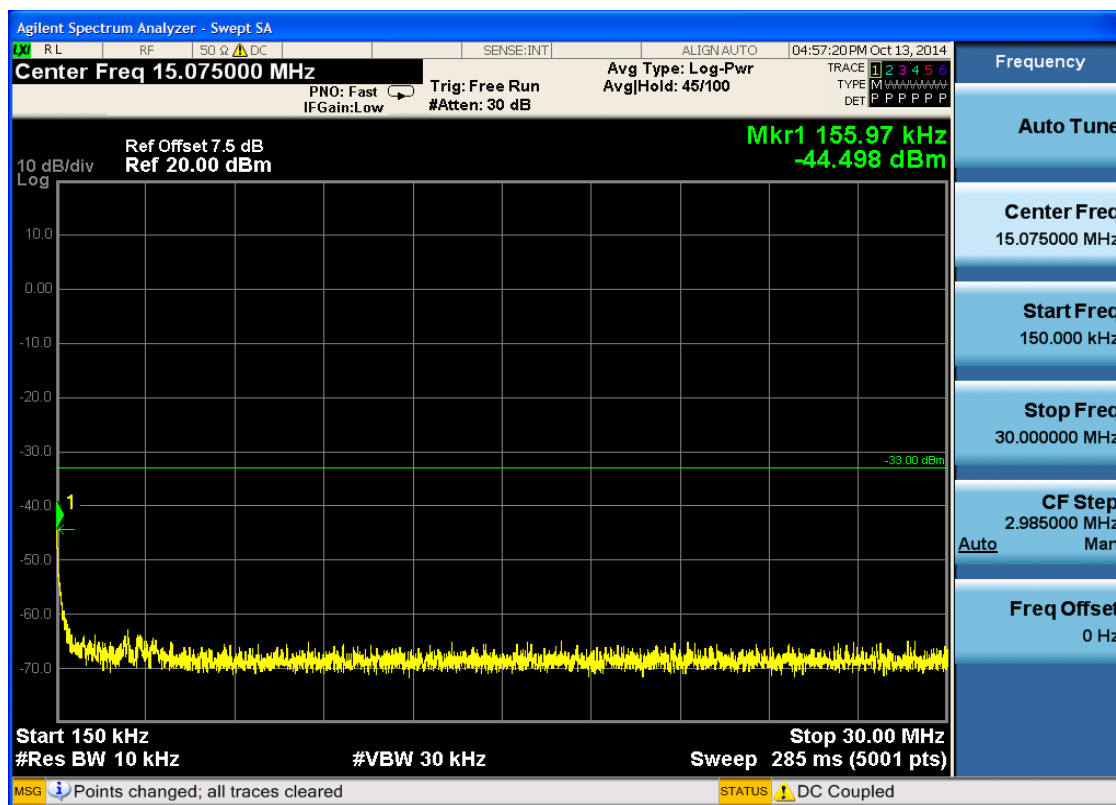


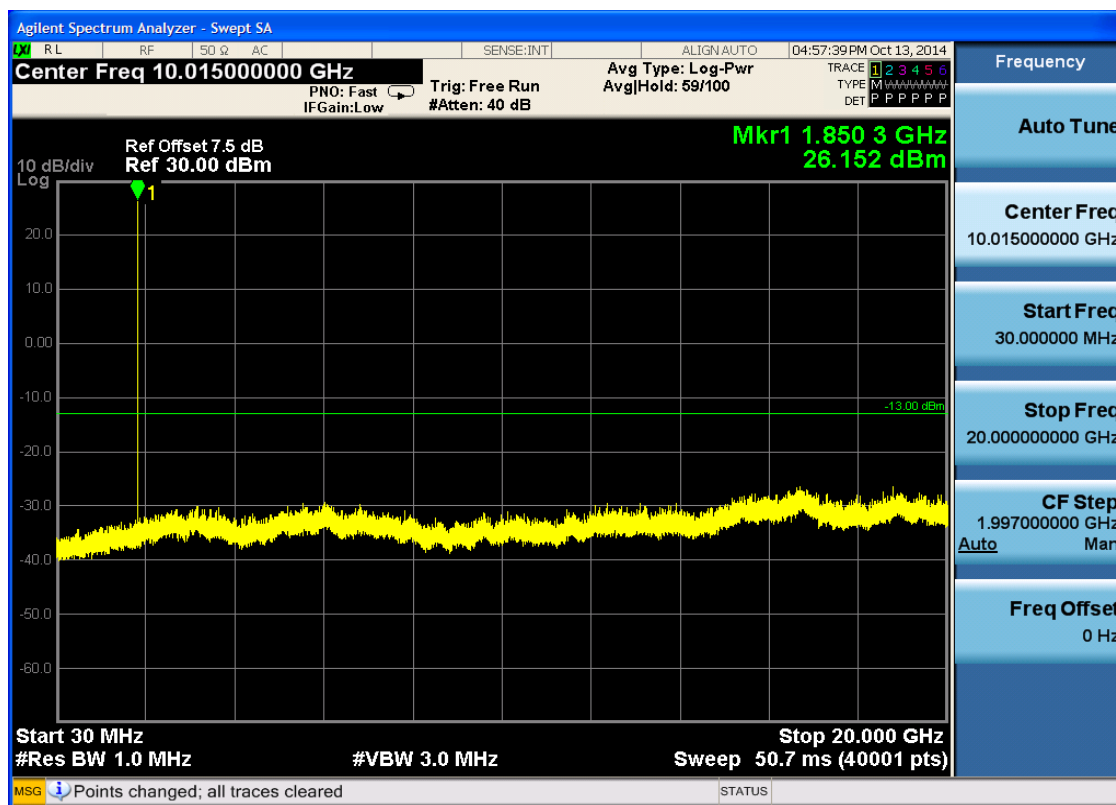


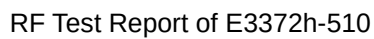
6.1.2.2 Test Mode = GSM/TM2

6.1.2.2.1 Test Channel = LCH









Agilent Spectrum Analyzer - Swept SA

RL RF 50.0 Δ DC SENSE:INT ALIGN:AUTO 04:57:59PM Oct 13, 2014

Center Freq 79.500 kHz

PNO: Wide IFGain: Low Trig: Free Run #Atten: 20 dB

Avg Type: Log-Pwr Avg/Hold: 90/100

TRACE 1 2 3 4 5 6
TYPE M M M M M M
DET P P P P P P

Ref Offset 7.5 dB
Ref 17.50 dBm

Mkr1 9.282 kHz
-52.347 dBm

10 dB/div
Log

Start 9.00 kHz
#Res BW 1.0 kHz

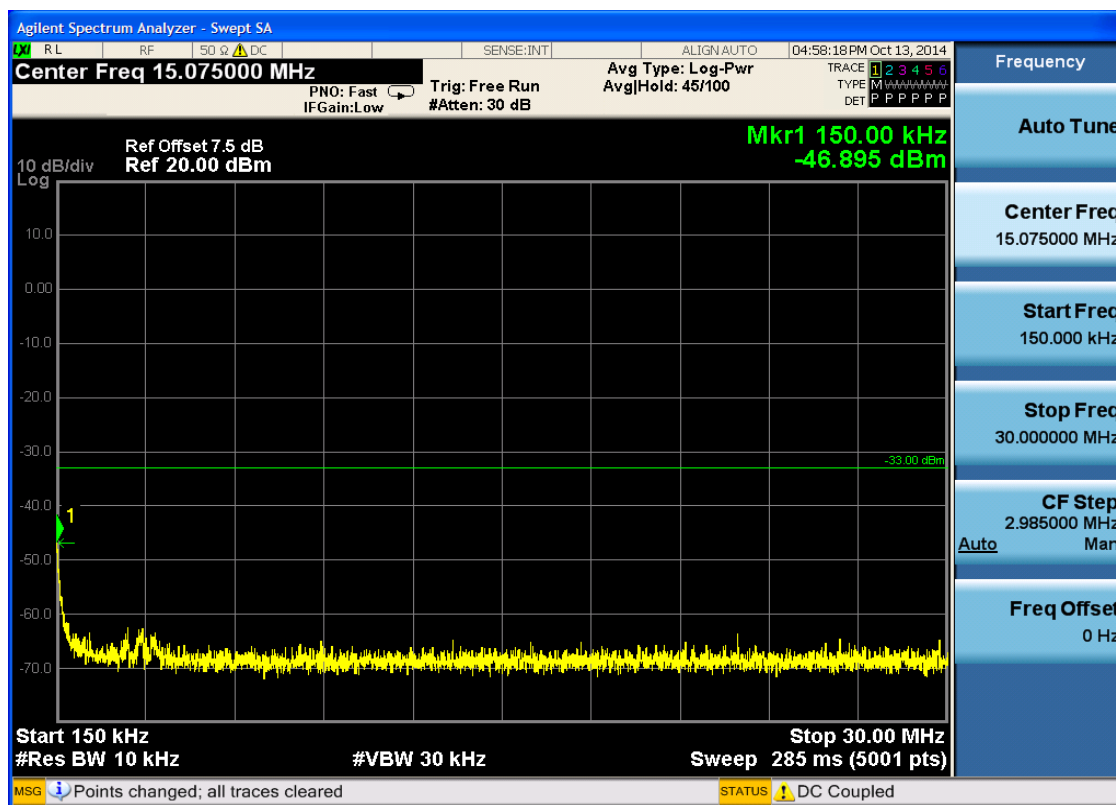
Stop 150.00 kHz
Sweep 130 ms (1001 pts)

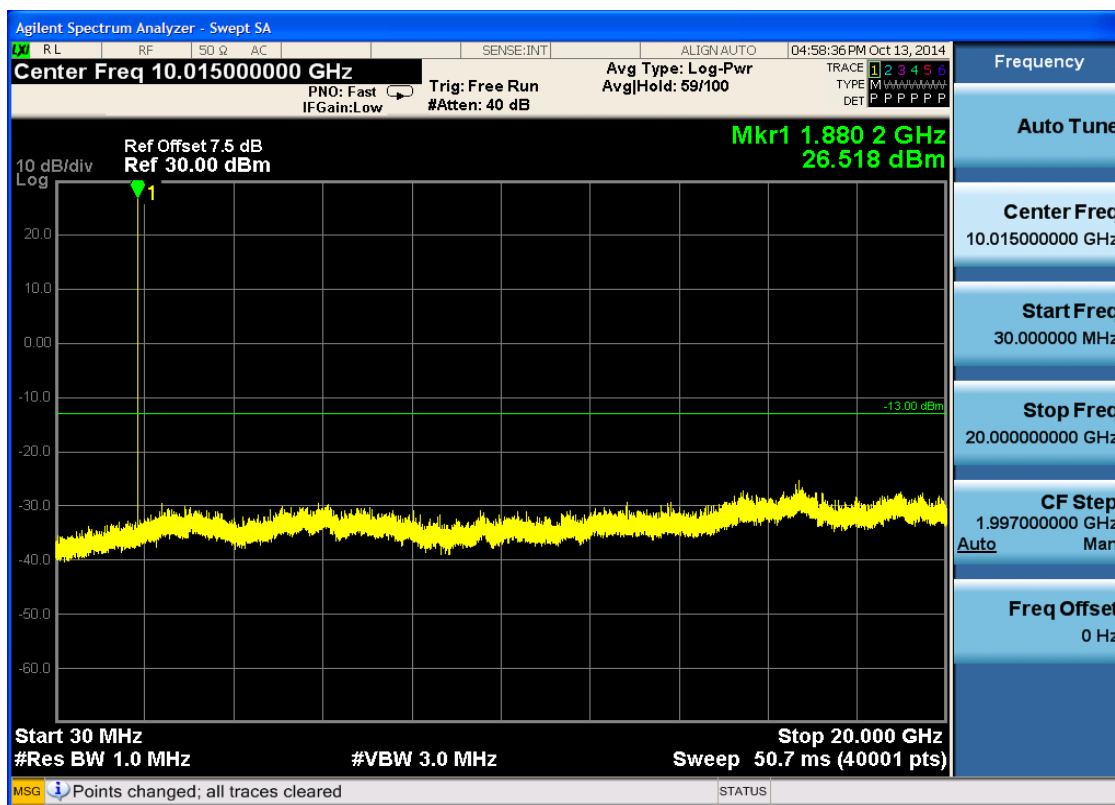
#VBW 10 kHz

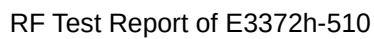
Frequency
Auto Tune
Center Freq 79.500 kHz
Start Freq 9.000 kHz
Stop Freq 150.000 kHz
CF Step 14.100 kHz
Auto Man
Freq Offset 0 Hz

MSG Points changed; all traces cleared

STATUS DC Coupled







Agilent Spectrum Analyzer - Swept SA

☒ R.L. RF 50 Ω DC SENSE:INT ALIGN:AUTO 04:58:56 PM Oct 13, 2014

Center Freq 79.500 kHz PNO: Wide Trig: Free Run Avg Type: Log-Pwr TRACE 1 2 3 4 5 6
 IFGain: Low #Atten: 20 dB Avg|Hold: 90/100 TYPE M DET P P P P P

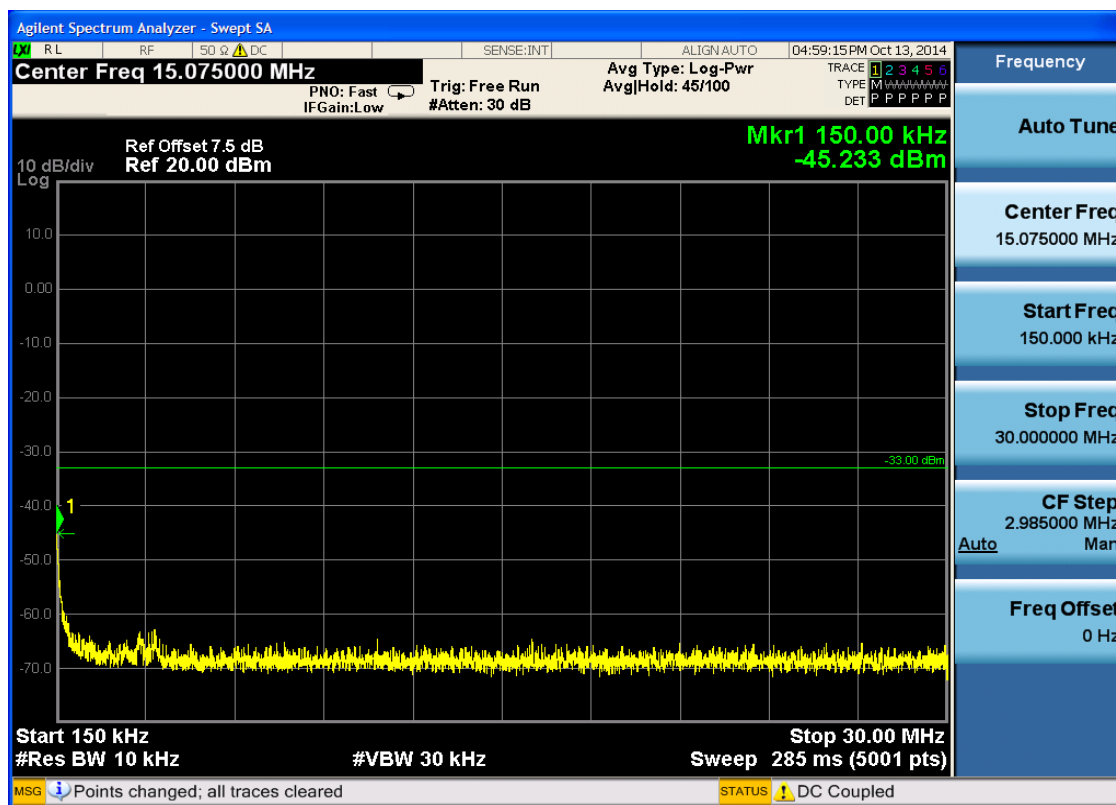
Ref Offset 7.5 dB Mkr1 9.000 kHz
 Ref 17.50 dBm -51.731 dBm

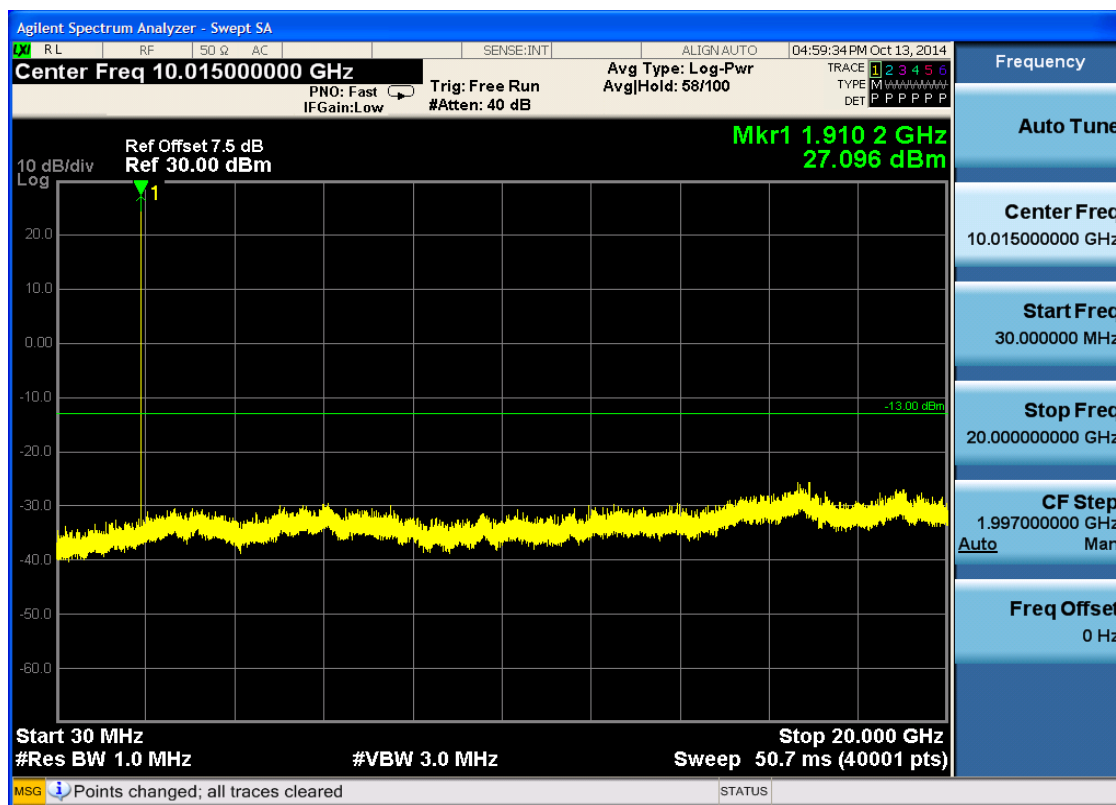
10 dB/div
 Log

Start 9.00 kHz Stop 150.00 kHz
 #Res BW 1.0 kHz #VBW 10 kHz Sweep 130 ms (1001 pts)

MSG Points changed; all traces cleared STATUS DC Coupled

Frequency
 Auto Tune
 Center Freq 79.500 kHz
 Start Freq 9.000 kHz
 Stop Freq 150.000 kHz
 CF Step 14.100 kHz
 Auto Man
 Freq Offset 0 Hz



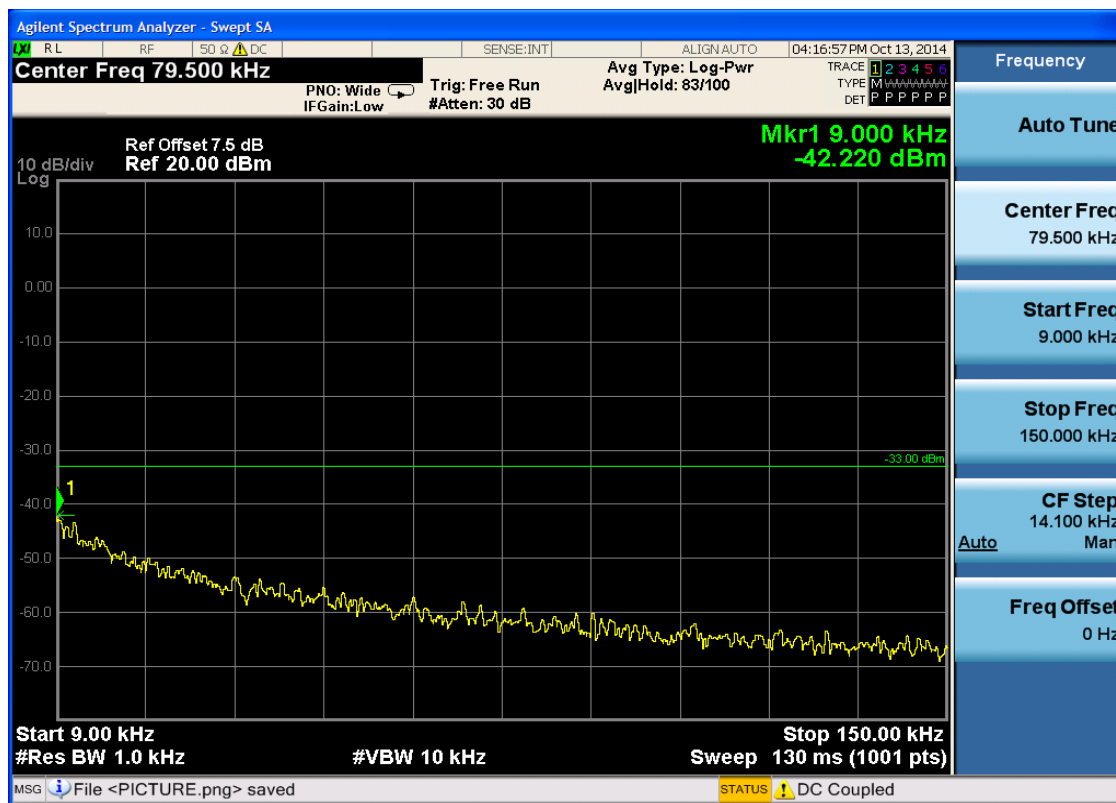


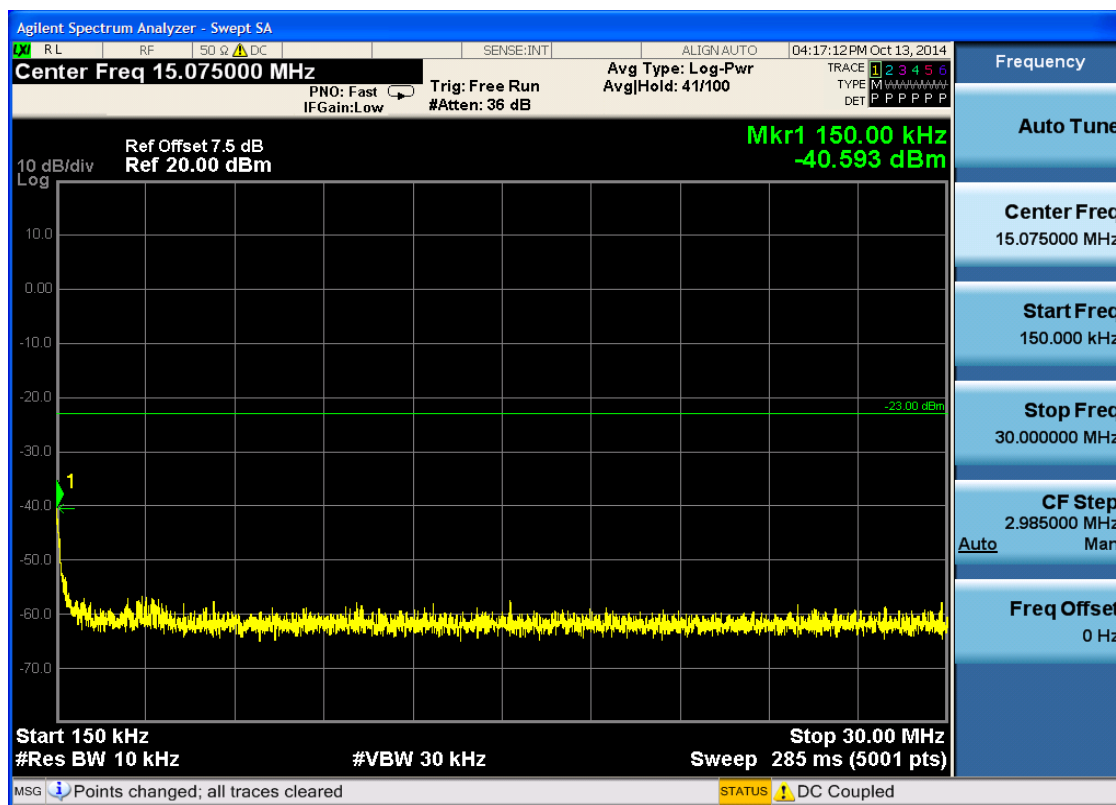
6.2 For UMTS

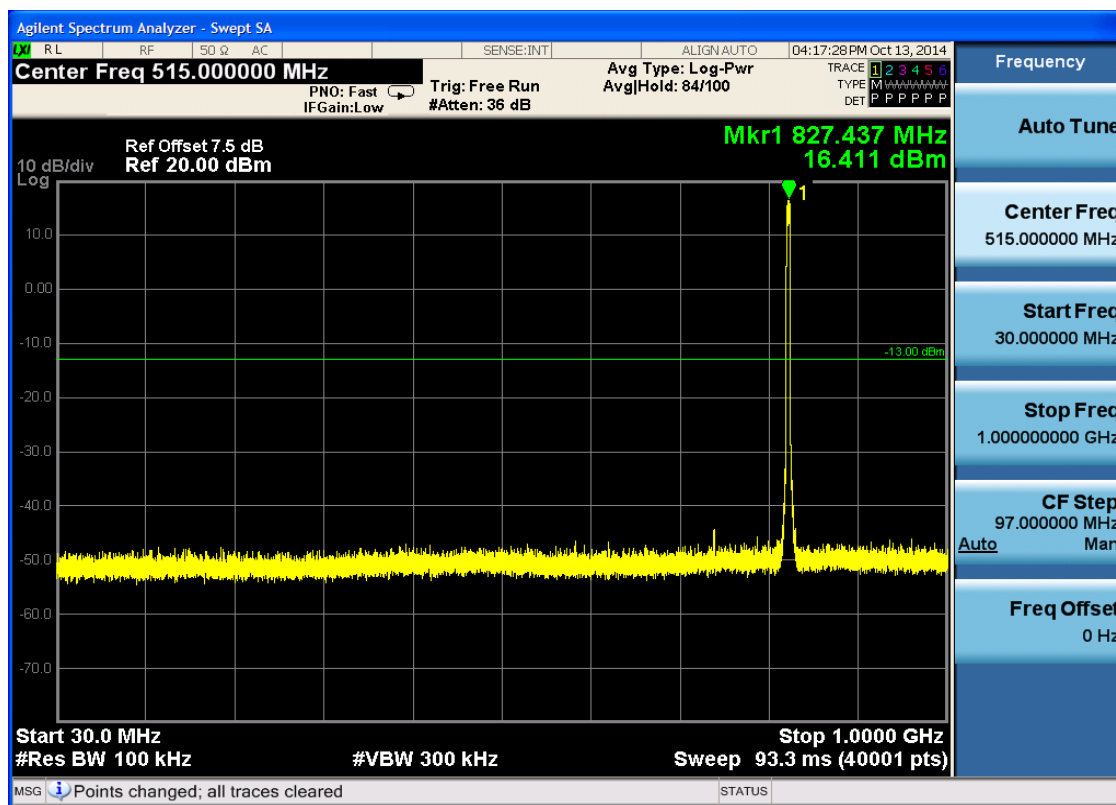
6.2.1 Test Band = WCDMA850

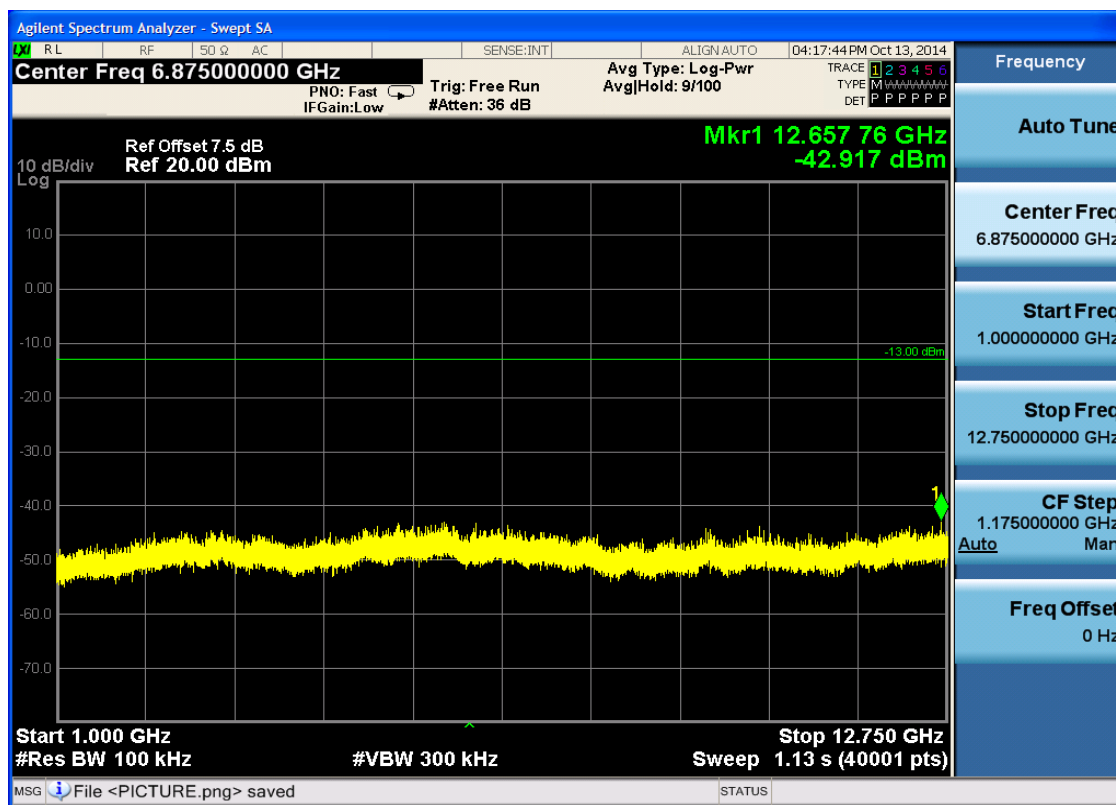
6.2.1.1 Test Mode = UMTS/TM1

6.2.1.1.1 Test Channel = LCH

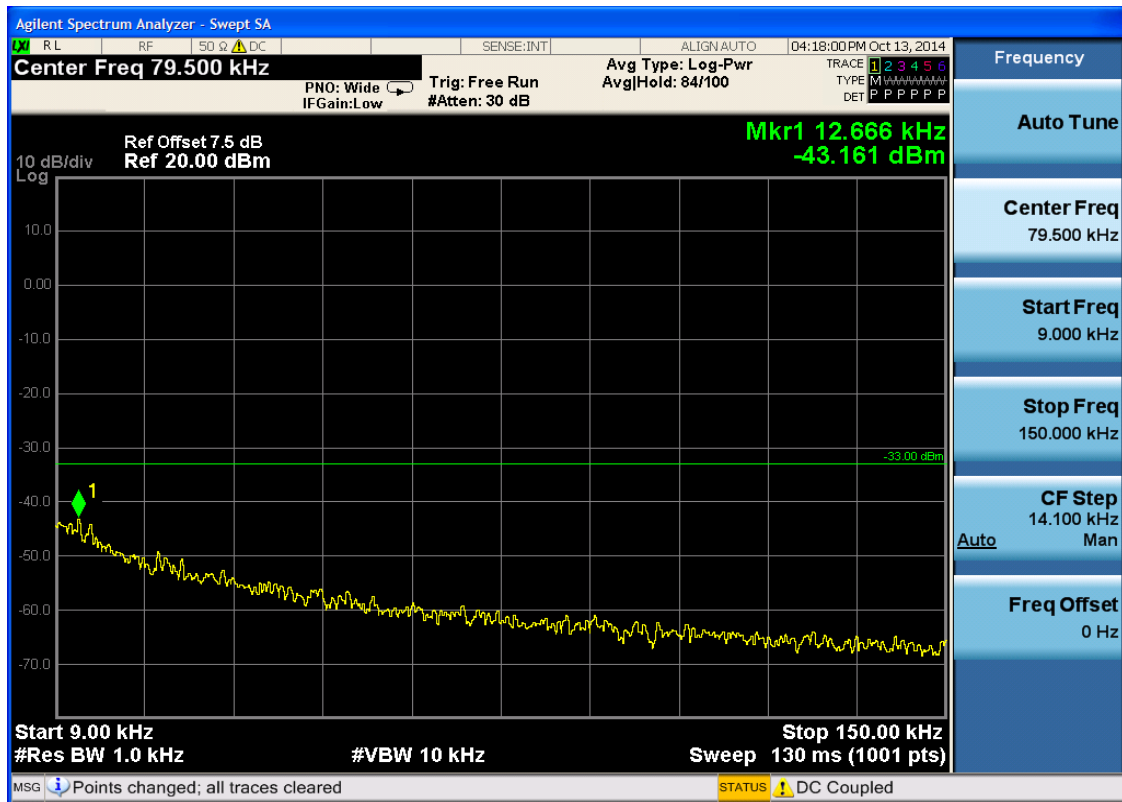


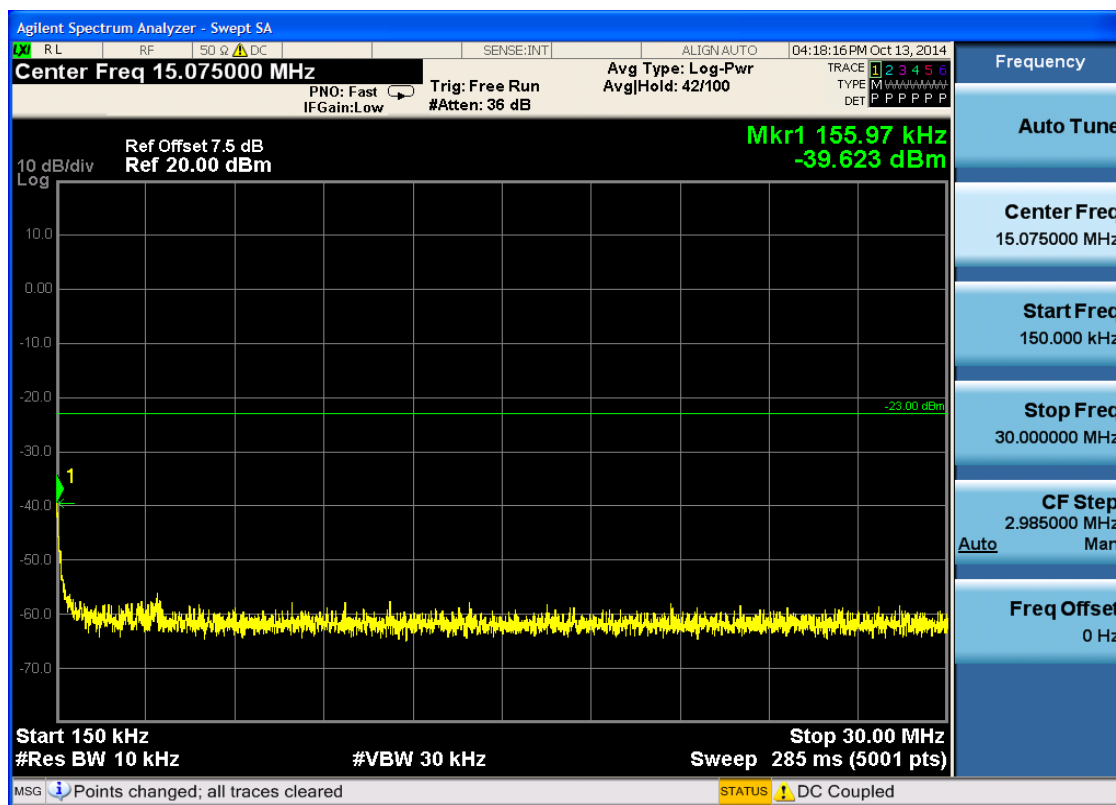


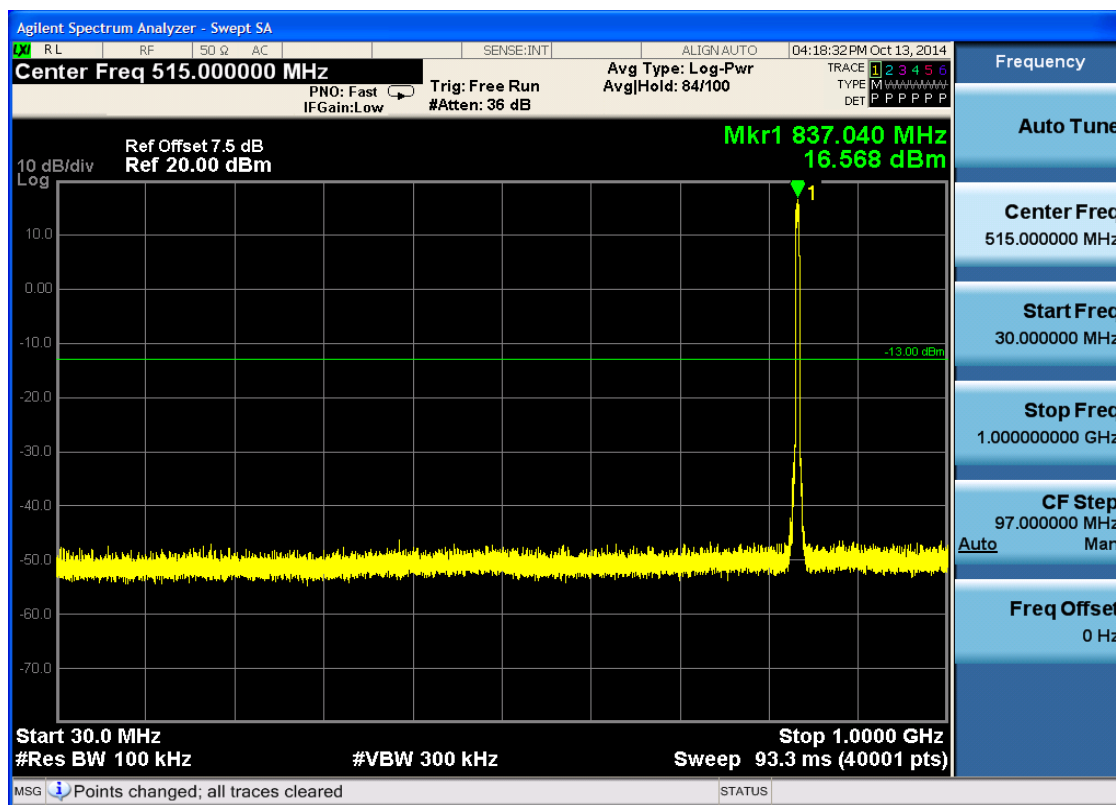


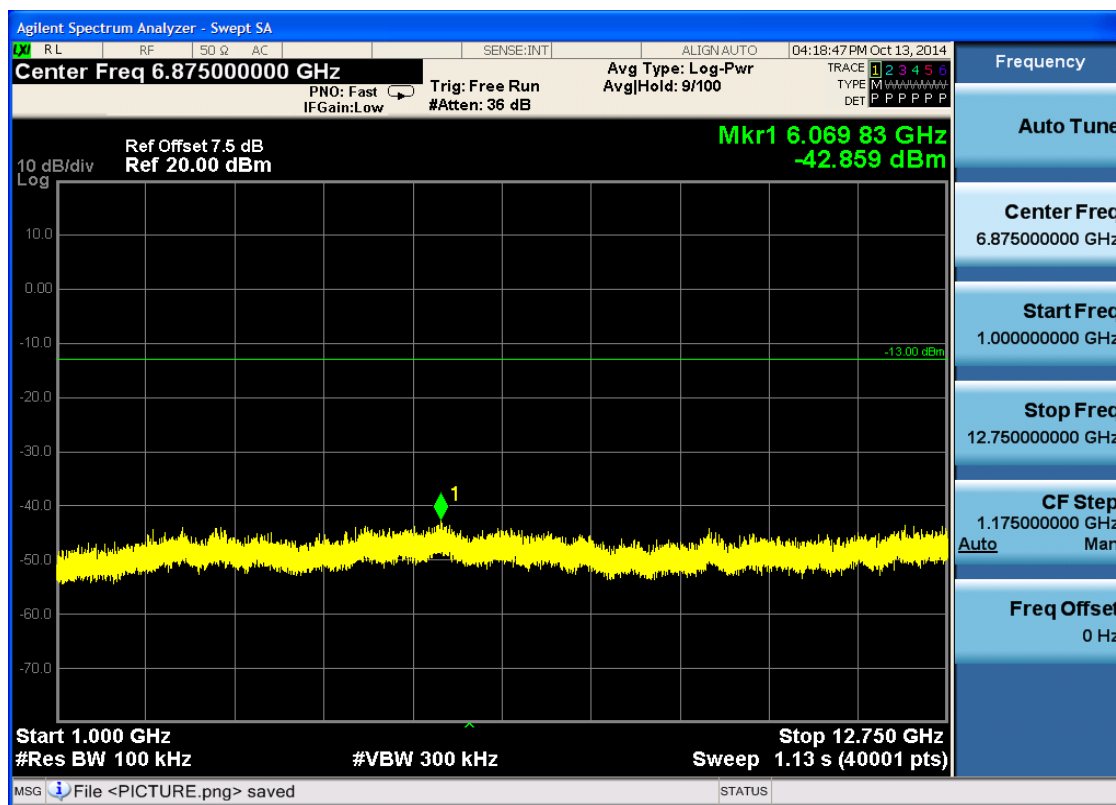


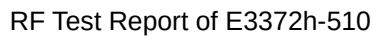
6.2.1.1.2 Test Channel = MCH











Agilent Spectrum Analyzer - Swept SA

R L RF 50 Ω DC SENSE:INT ALIGN AUTO 04:19:04PM Oct 13, 2014

Center Freq 79.500 kHz PNO: Wide IFGain:Low Trig: Free Run #Atten: 30 dB Avg Type: Log-Pwr AvgJHold: 83/100

TRACE 1 2 3 4 5 6
TYPE M M M M M M M M
DET P P P P P P P

Ref Offset 7.5 dB
Ref 20.00 dBm

**Mkr1 9.000 kHz
-43.622 dBm**

10 dB/div
Log

Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 10 kHz

Stop 150.00 kHz
Sweep 130 ms (1001 pts)

MSG Points changed; all traces cleared

STATUS DC Coupled

Frequency

Auto Tune

Center Freq
79.500 kHz

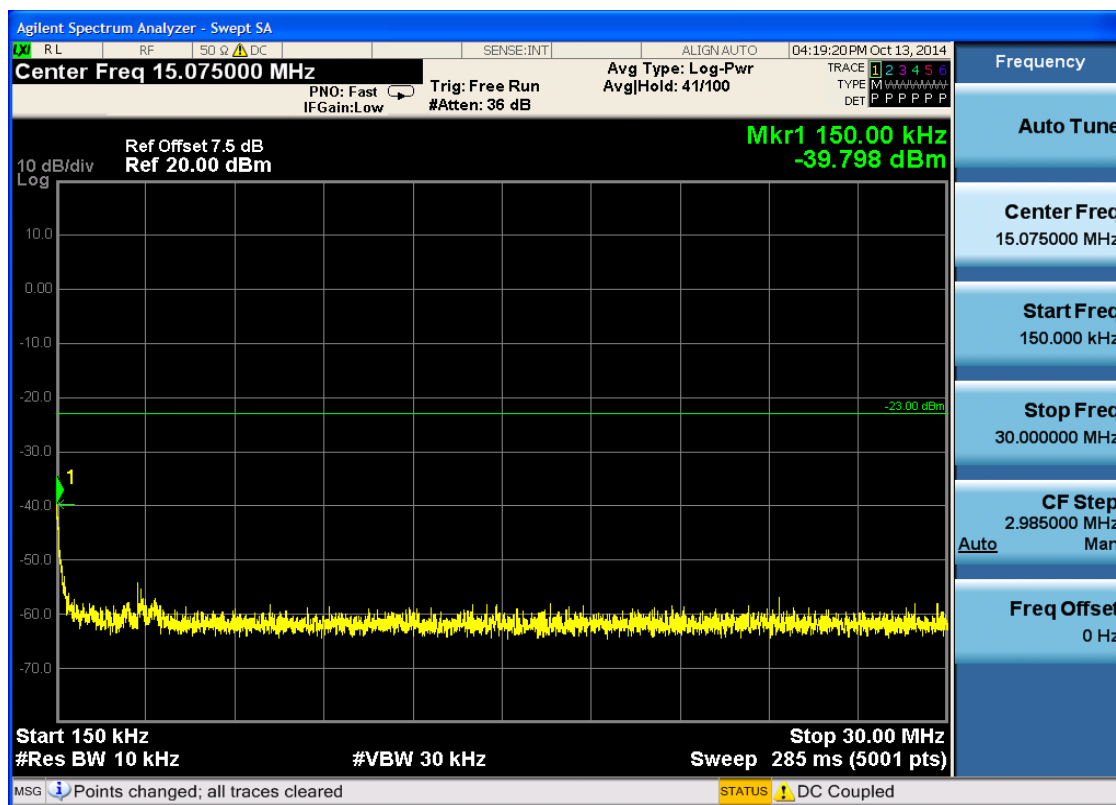
Start Freq
9.000 kHz

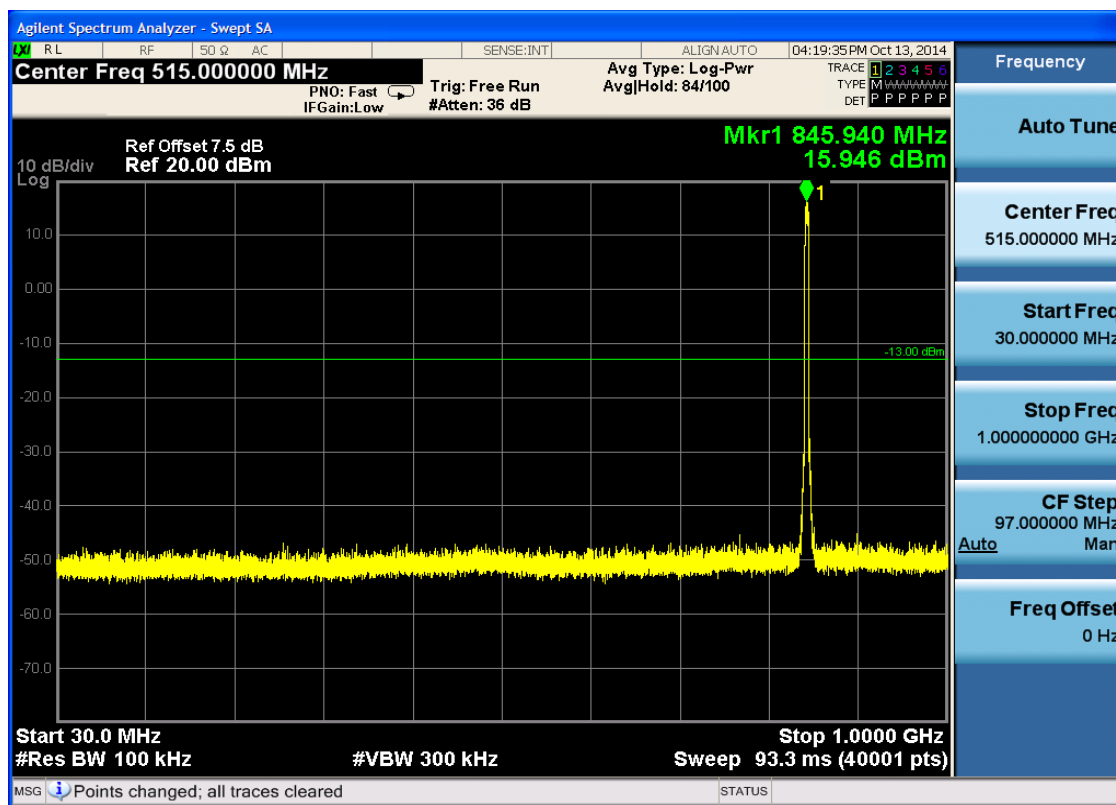
Stop Freq
150.000 kHz

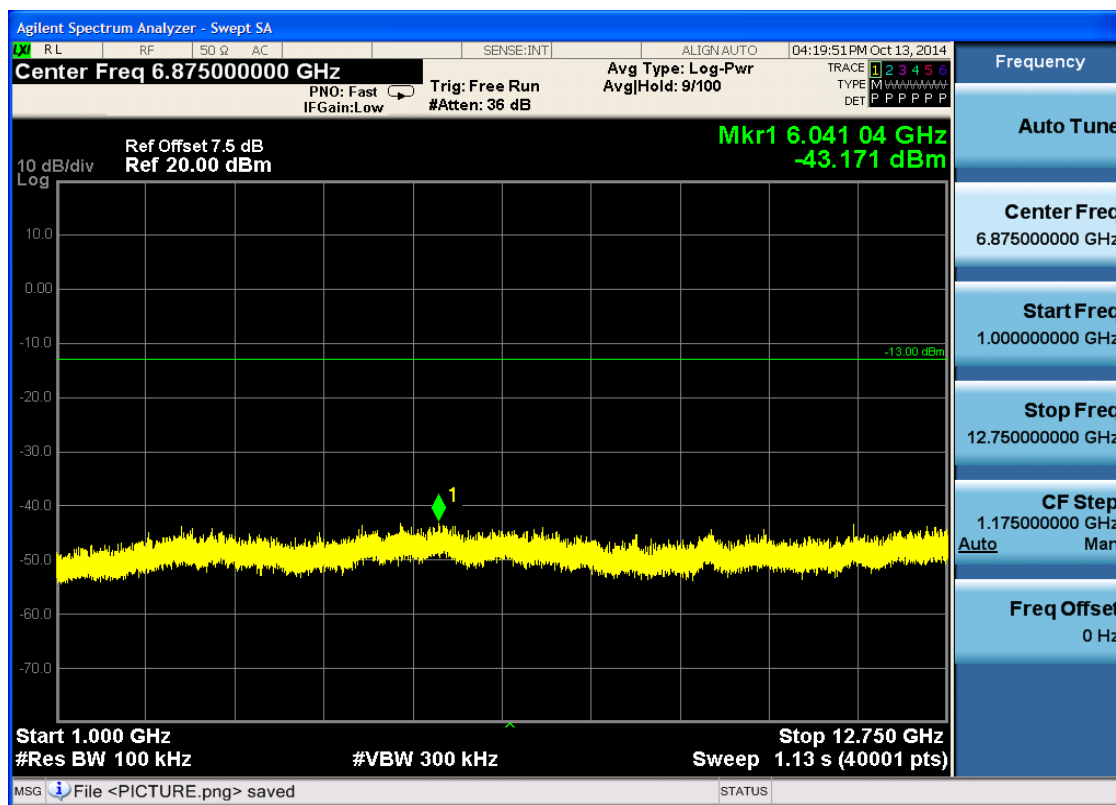
CF Step
14.100 kHz
Man

Auto

Freq Offset
0 Hz







6.2.2 Test Band = WCDMA1900

6.2.2.1 Test Mode = UMTS/TM1

6.2.2.1.1 Test Channel = LCH

