

## 5Appendix\_E: Band Edges Compliance

### Part I - Test Plots

#### 5.1 For LTE

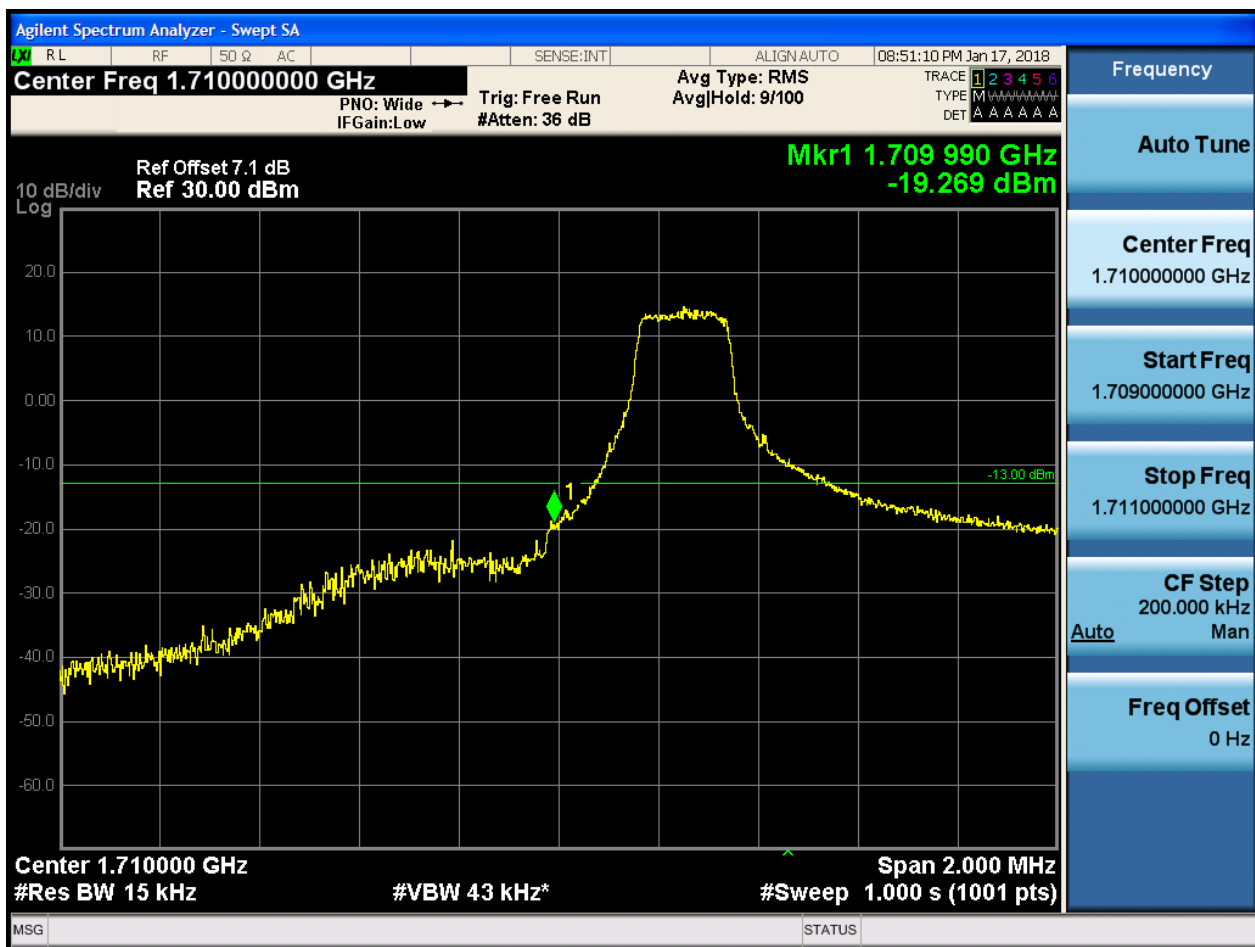
##### 5.1.1 Test Band = BAND4

##### 5.1.1.1 Test Mode = LTE/TM1

##### 5.1.1.1.1 Test Bandwidth = 1.4

##### 5.1.1.1.1.1 Test Channel = LCH

##### 5.1.1.1.1.1.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

RL RF 50  $\Omega$  AC SENSE:INT ALIGN AUTO 08:51:26 PM Jan 17, 2018

Center Freq 1.710000000 GHz Avg Type: RMS PNO: Wide Trig: Free Run IFGain:Low #Atten: 36 dB TYPE M A A A A A A A DET A A A A A A

10 dB/div Ref Offset 7.1 dB Mkr1 1.709 370 GHz Log Ref 30.00 dBm -36.973 dBm

Center 1.710000 GHz Span 2.000 MHz #Res BW 15 kHz #VBW 43 kHz\* #Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq 1.710000000 GHz

Start Freq 1.709000000 GHz

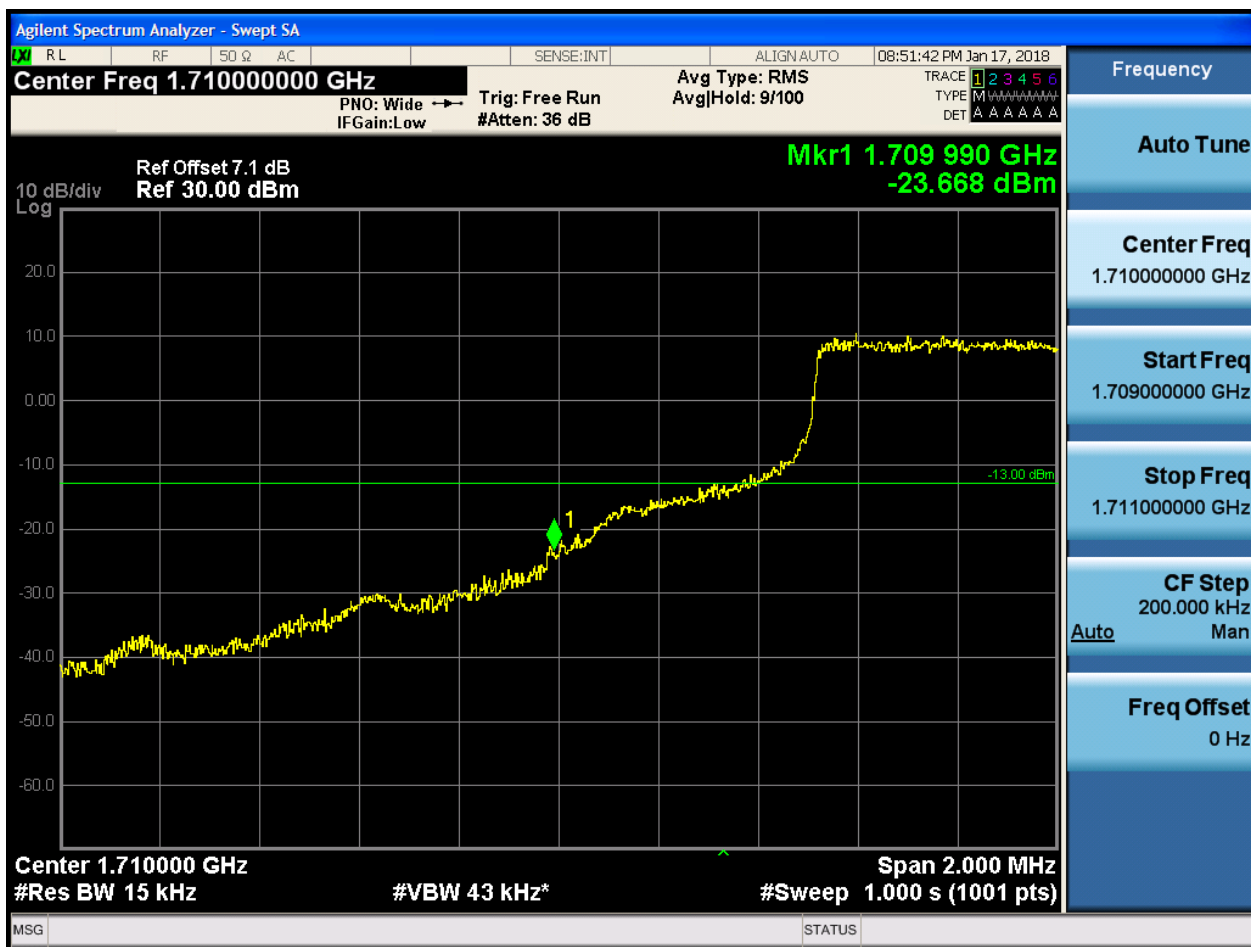
Stop Freq 1.711000000 GHz

CF Step 200.000 kHz Auto Man

Freq Offset 0 Hz



## 5.1.1.1.1.3 Test RB = RB3#2





Agilent Spectrum Analyzer - Swept SA

RL RF 50  $\Omega$  AC SENSE:INT ALIGN AUTO 08:51:58 PM Jan 17, 2018

Center Freq 1.710000000 GHz Avg Type: RMS  
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 9/100  
#Atten: 36 dB

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 7.1 dB  
Ref 30.00 dBm

Mkr1 1.709 960 GHz  
-25.510 dBm

10 dB/div  
Log

Center 1.710000 GHz  
#Res BW 15 kHz  
#VBW 43 kHz\*  
Span 2.000 MHz  
#Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency  
Auto Tune  
Center Freq  
1.710000000 GHz  
Start Freq  
1.709000000 GHz  
Stop Freq  
1.711000000 GHz  
CF Step  
200.000 kHz  
Auto Man  
Freq Offset  
0 Hz

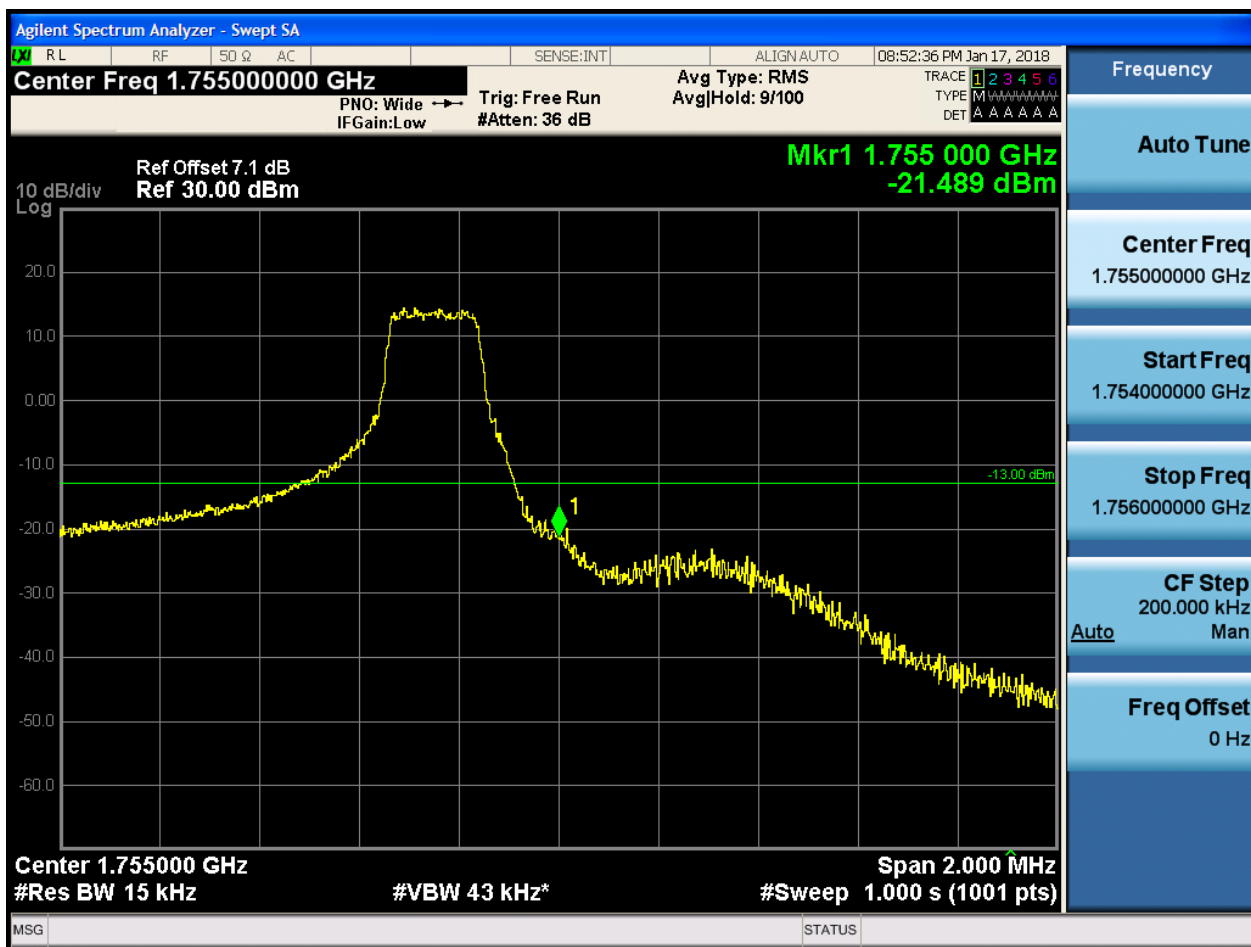
### 5.1.1.1.1.2 Test Channel = HCH

#### 5.1.1.1.1.2.1 Test RB = RB1#0





## 5.1.1.1.2.2 Test RB = RB1#5





Agilent Spectrum Analyzer - Swept SA

RL RF 50  $\Omega$  AC SENSE:INT ALIGN AUTO 08:52:52 PM Jan 17, 2018

Center Freq 1.755000000 GHz Avg Type: RMS  
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 10/100  
#Atten: 36 dB

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

Ref Offset 7.1 dB  
Ref 30.00 dBm

Mkr1 1.755 010 GHz  
-22.229 dBm

10 dB/div  
Log

Center 1.755000 GHz  
#Res BW 15 kHz

#VBW 43 kHz\* Span 2.000 MHz  
#Sweep 1.000 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



Agilent Spectrum Analyzer - Swept SA

Center Freq 1.755000000 GHz

Ref Offset 7.1 dB  
Ref 30.00 dBm

10 dB/div  
Log

Mkr1 1.755 140 GHz  
-28.375 dBm

Center Freq 1.755000000 GHz

Start Freq 1.754000000 GHz

Stop Freq 1.756000000 GHz

CF Step 200.000 kHz  
Auto

Freq Offset 0 Hz

Center 1.755000 GHz  
#Res BW 15 kHz

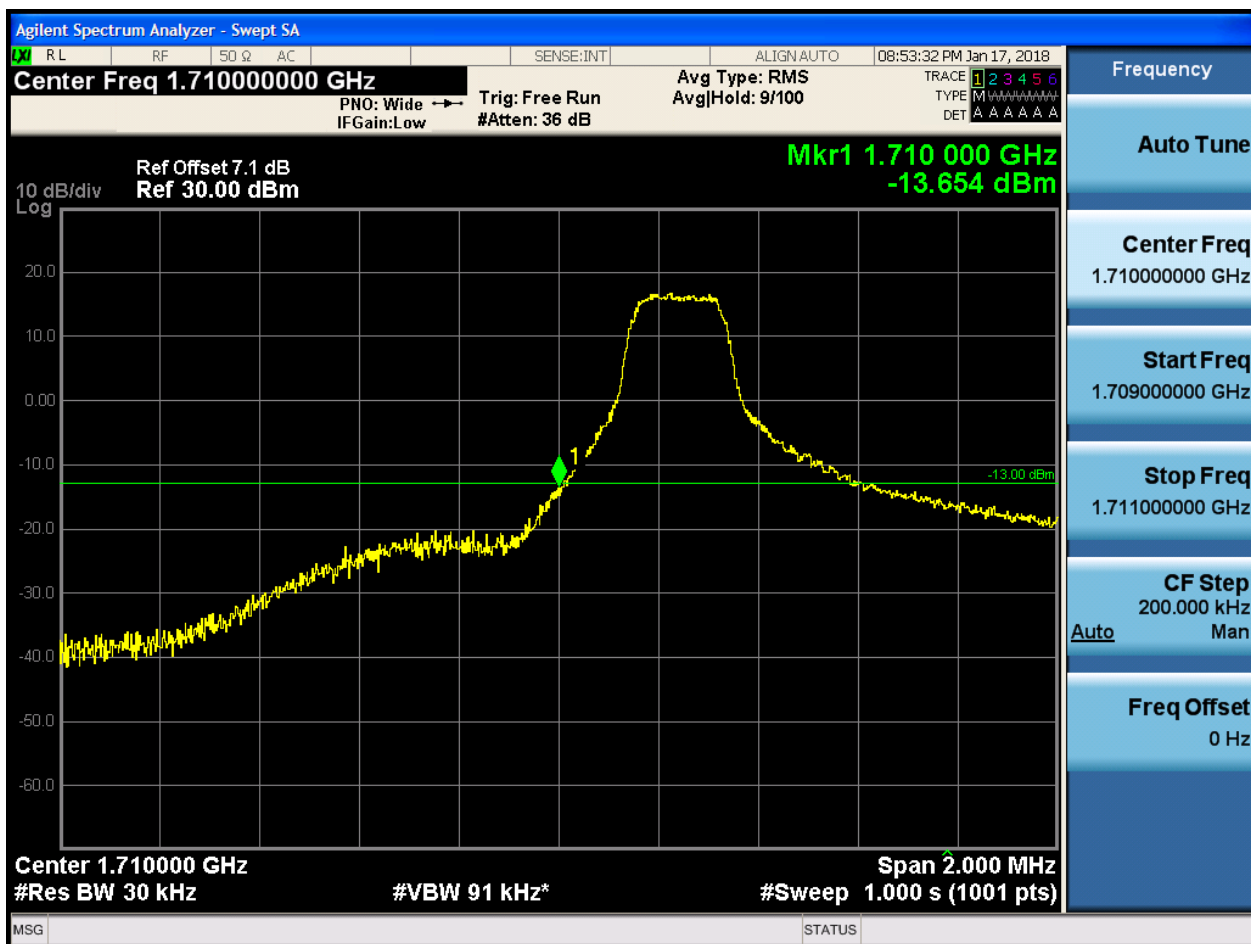
#VBW 43 kHz\*

Span 2.000 MHz  
#Sweep 1.000 s (1001 pts)

### 5.1.1.1.2 Test Bandwidth = 3

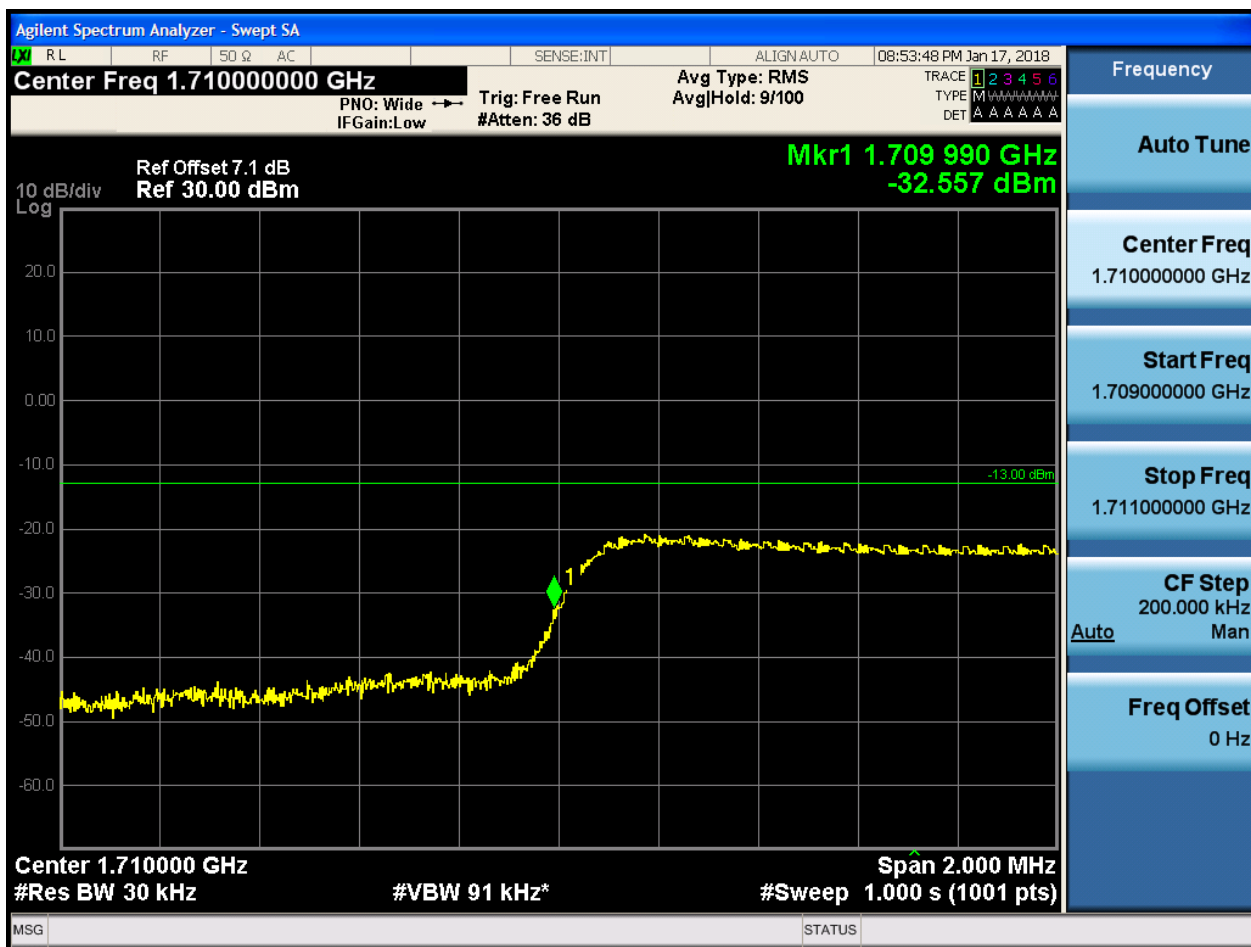
#### 5.1.1.1.2.1 Test Channel = LCH

##### 5.1.1.1.2.1.1 Test RB = RB1#0



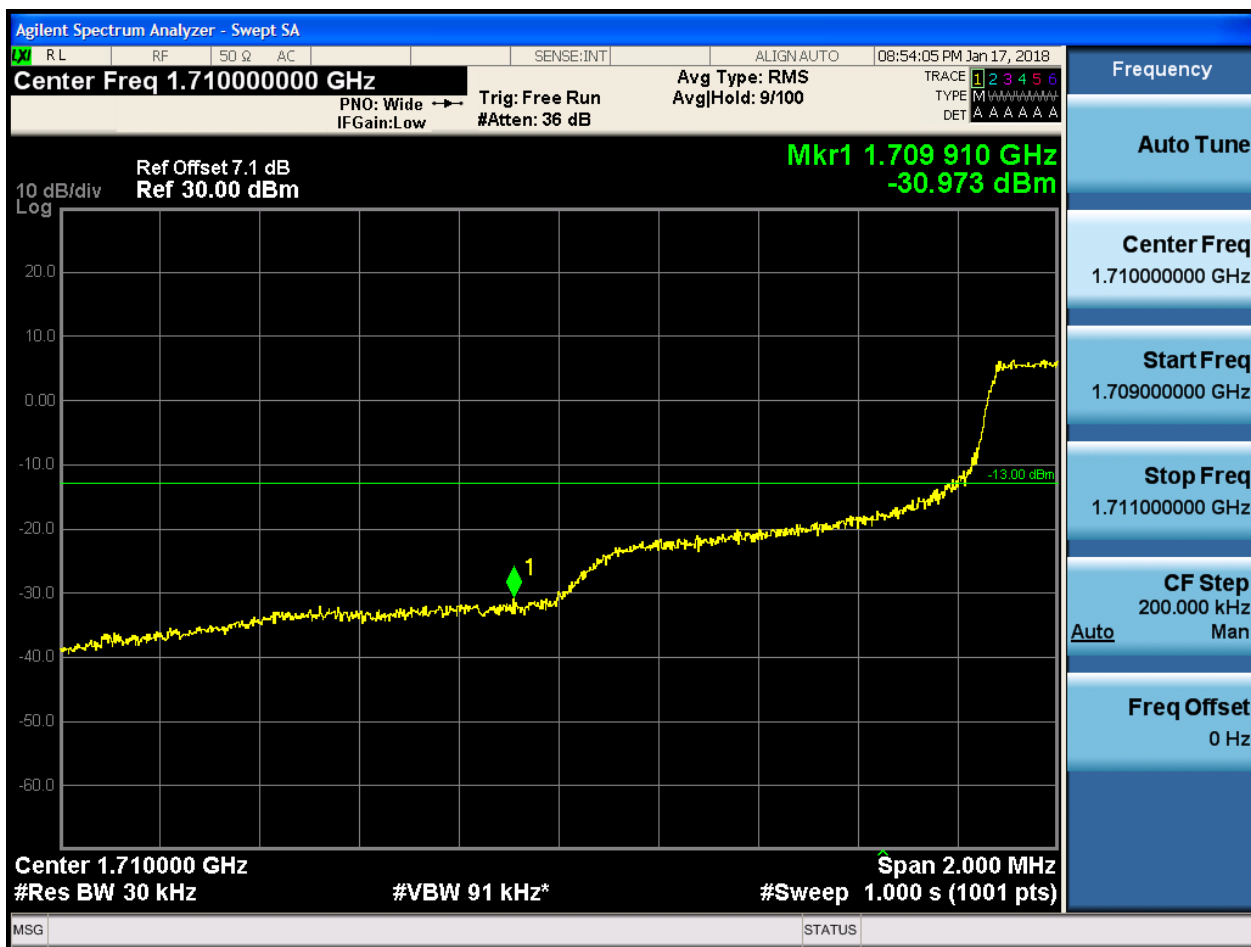


## 5.1.1.1.2.1.2 Test RB = RB1#14



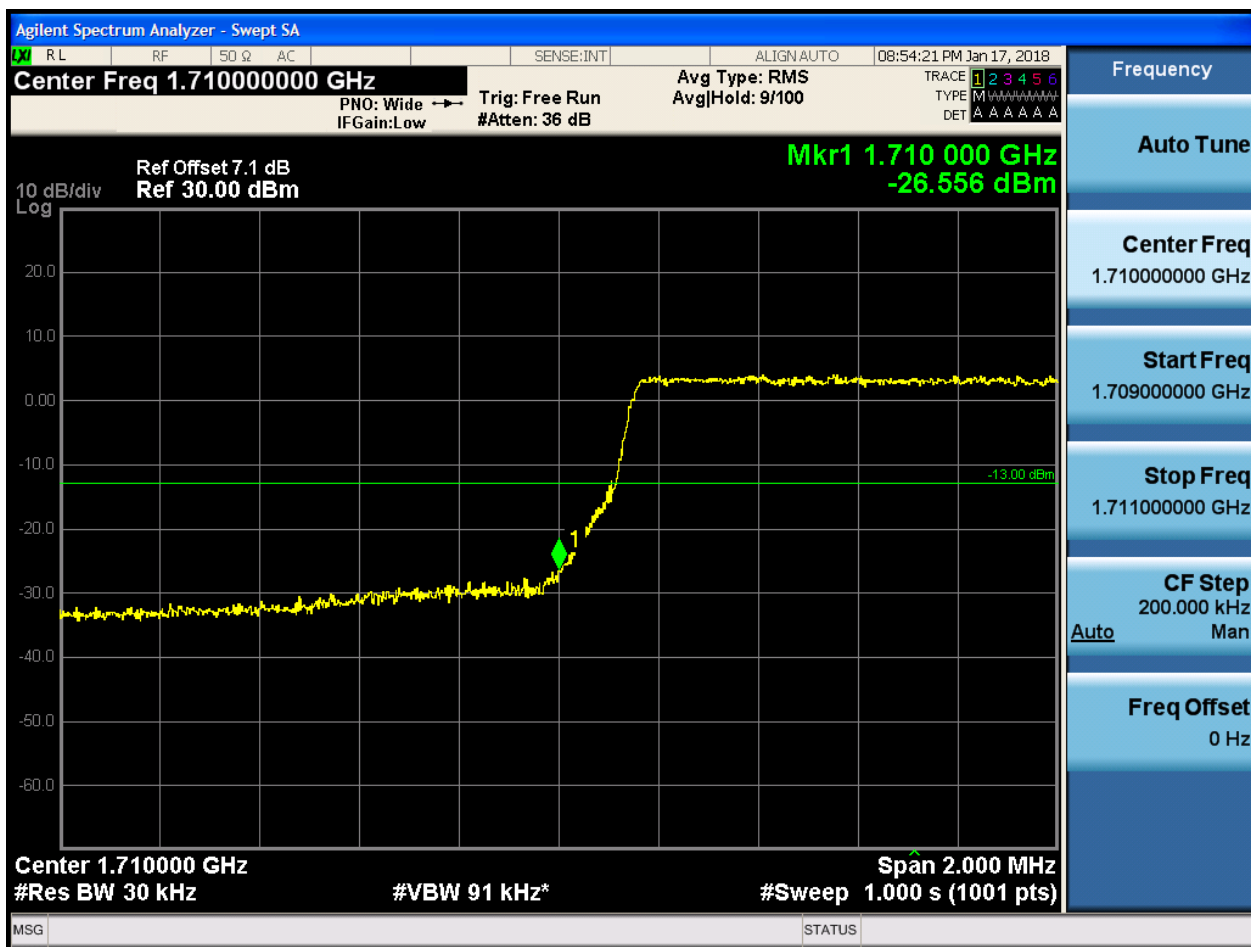


## 5.1.1.1.2.1.3 Test RB = RB8#4



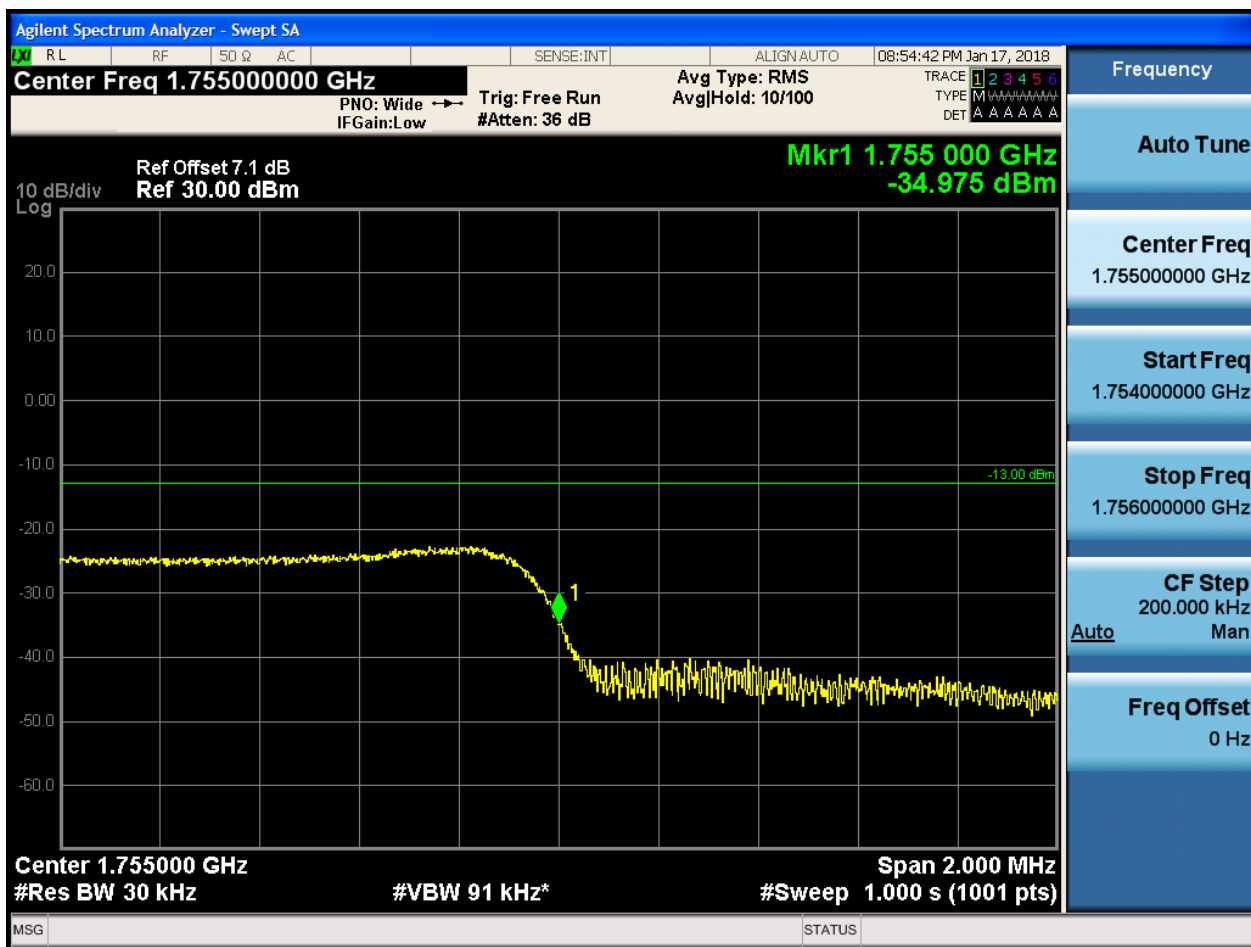


## 5.1.1.1.2.1.4 Test RB = RB15#0



### 5.1.1.1.2.2 Test Channel = HCH

#### 5.1.1.1.2.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

Center Freq 1.755000000 GHz

Ref Offset 7.1 dB  
Ref 30.00 dBm

10 dB/div  
Log

Mkr1 1.755 000 GHz  
-16.015 dBm

Center 1.755000 GHz  
#Res BW 30 kHz  
#VBW 91 kHz\*  
Span 2.000 MHz  
#Sweep 1.000 s (1001 pts)

Auto Tune

Center Freq  
1.755000000 GHz

Start Freq  
1.754000000 GHz

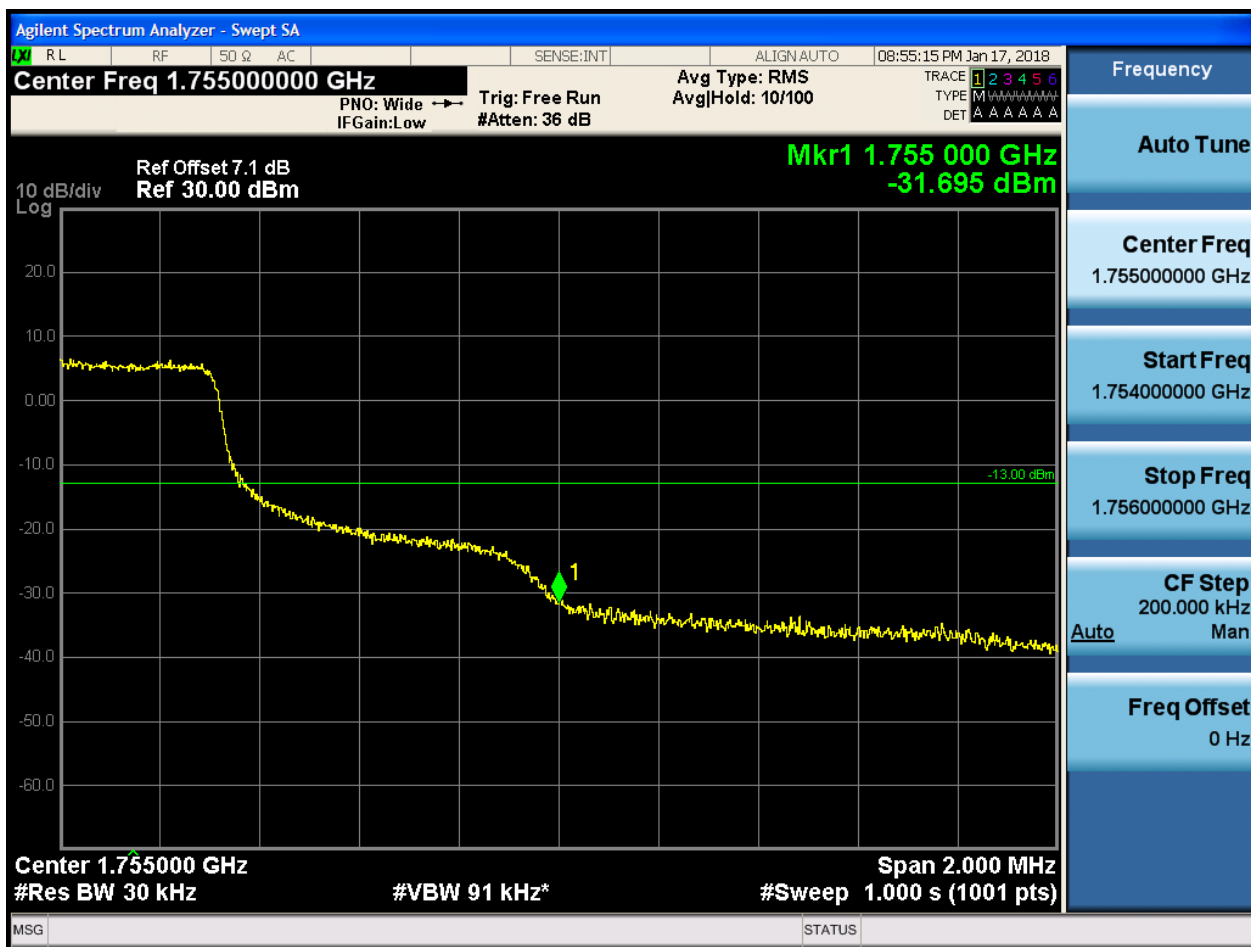
Stop Freq  
1.756000000 GHz

CF Step  
200.000 kHz  
Auto Man

Freq Offset  
0 Hz



## 5.1.1.1.2.2.3 Test RB = RB8#4





Agilent Spectrum Analyzer - Swept SA

RL RF 50  $\Omega$  AC SENSE:INT ALIGN AUTO 08:55:31 PM Jan 17, 2018

Center Freq 1.755000000 GHz Avg Type: RMS  
 PNO: Wide → Trig: Free Run AvgHold: 10/100  
 IFGain:Low #Atten: 36 dB

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

Ref Offset 7.1 dB  
 Ref 30.00 dBm

Mkr1 1.755 000 GHz  
 -27.862 dBm

10 dB/div  
 Log

-13.00 dBm

Center 1.755000 GHz Span 2.000 MHz  
 #Res BW 30 kHz #VBW 91 kHz\* #Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq  
 1.755000000 GHz

Start Freq  
 1.754000000 GHz

Stop Freq  
 1.756000000 GHz

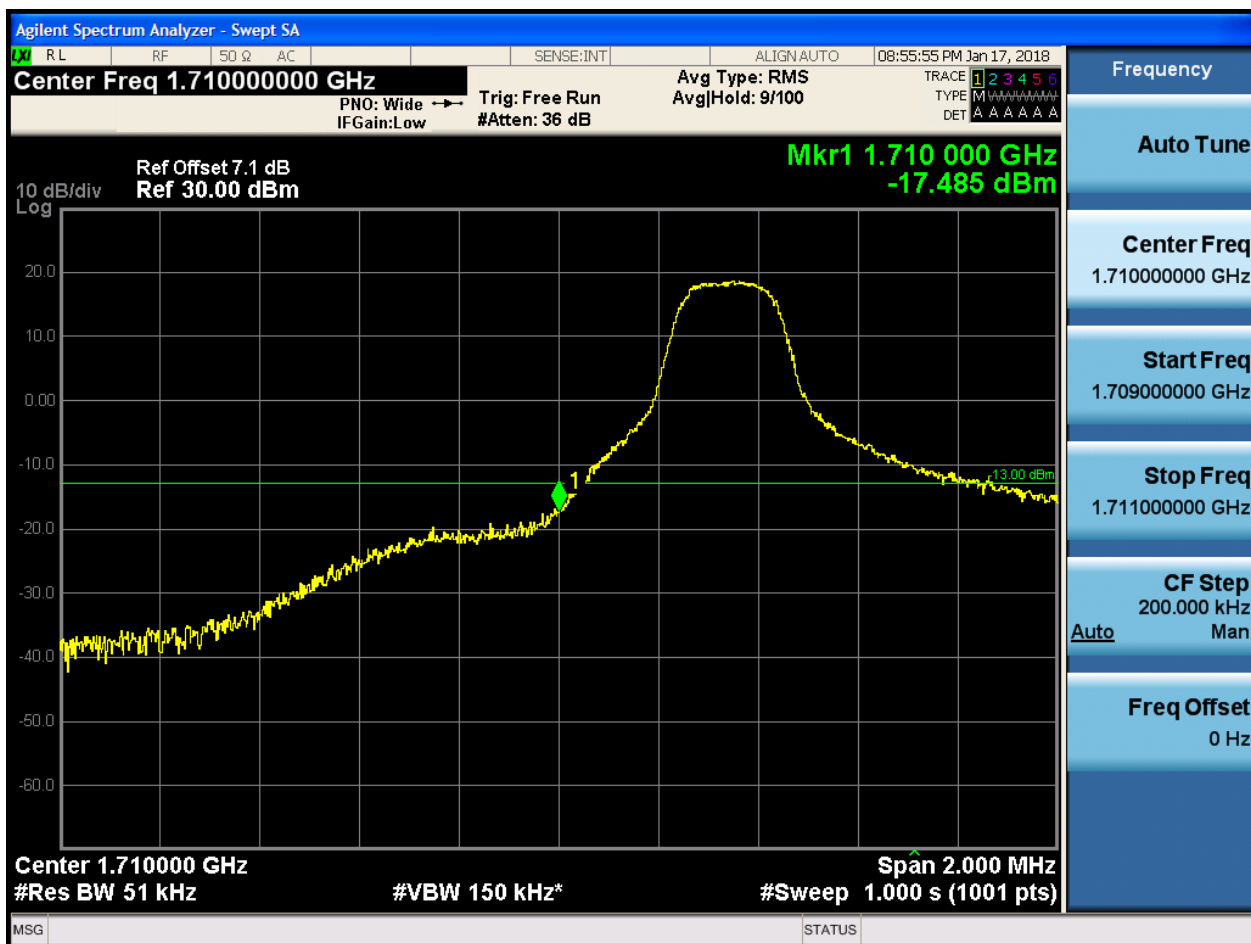
CF Step  
 200.000 kHz  
 Auto Man

Freq Offset  
 0 Hz

### 5.1.1.1.3 Test Bandwidth = 5

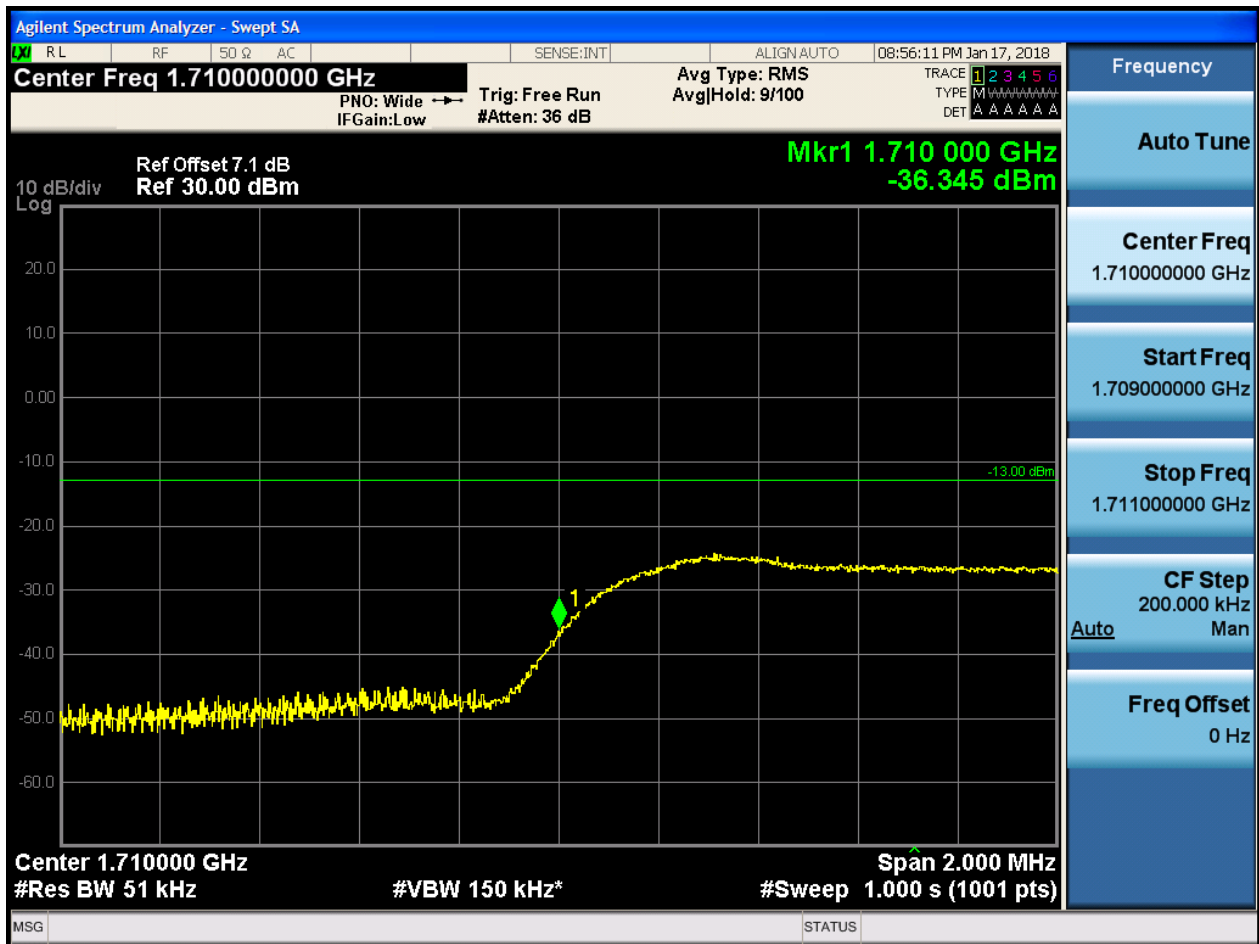
#### 5.1.1.1.3.1 Test Channel = LCH

##### 5.1.1.1.3.1.1 Test RB = RB1#0



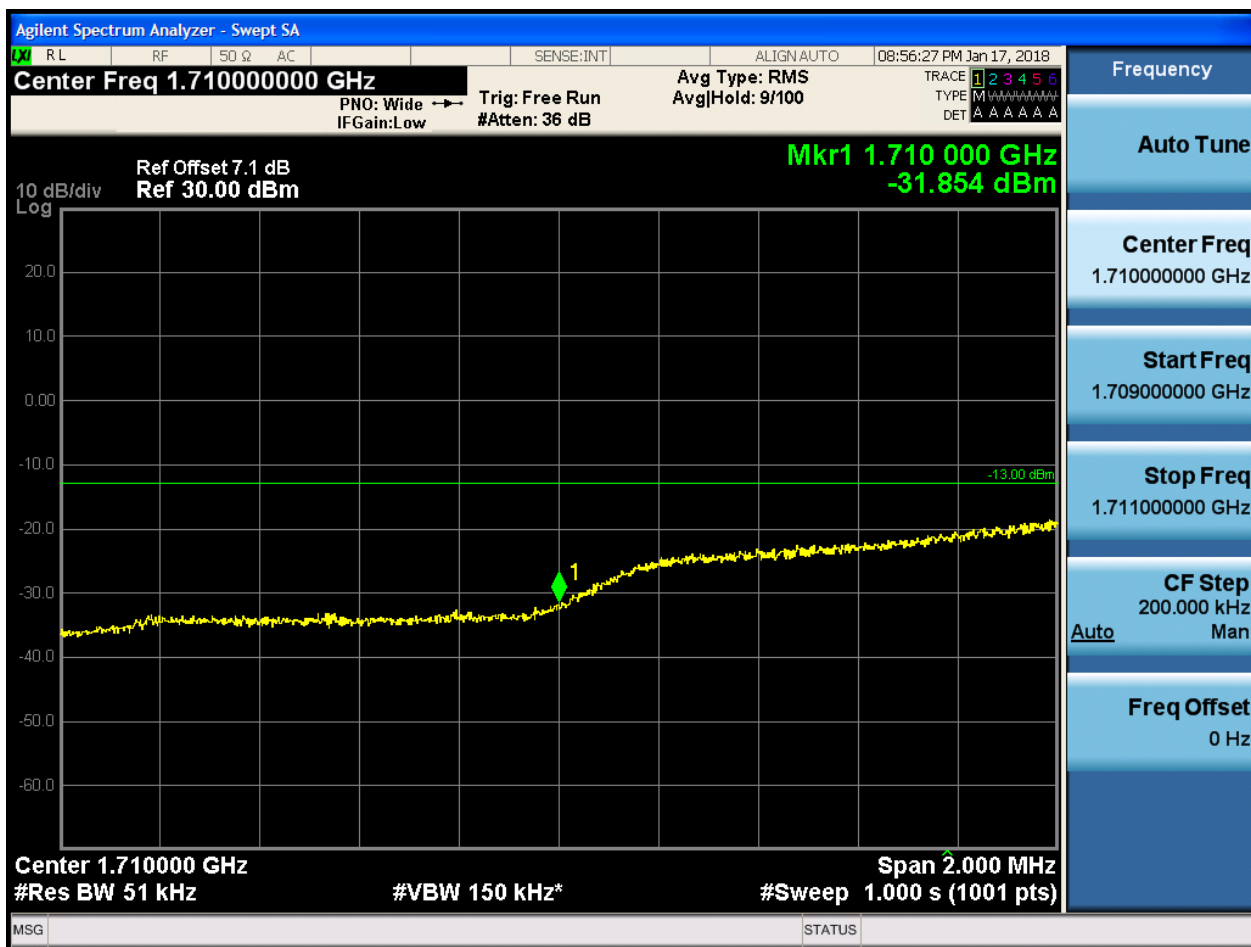


## 5.1.1.1.3.1.2 Test RB = RB1#24



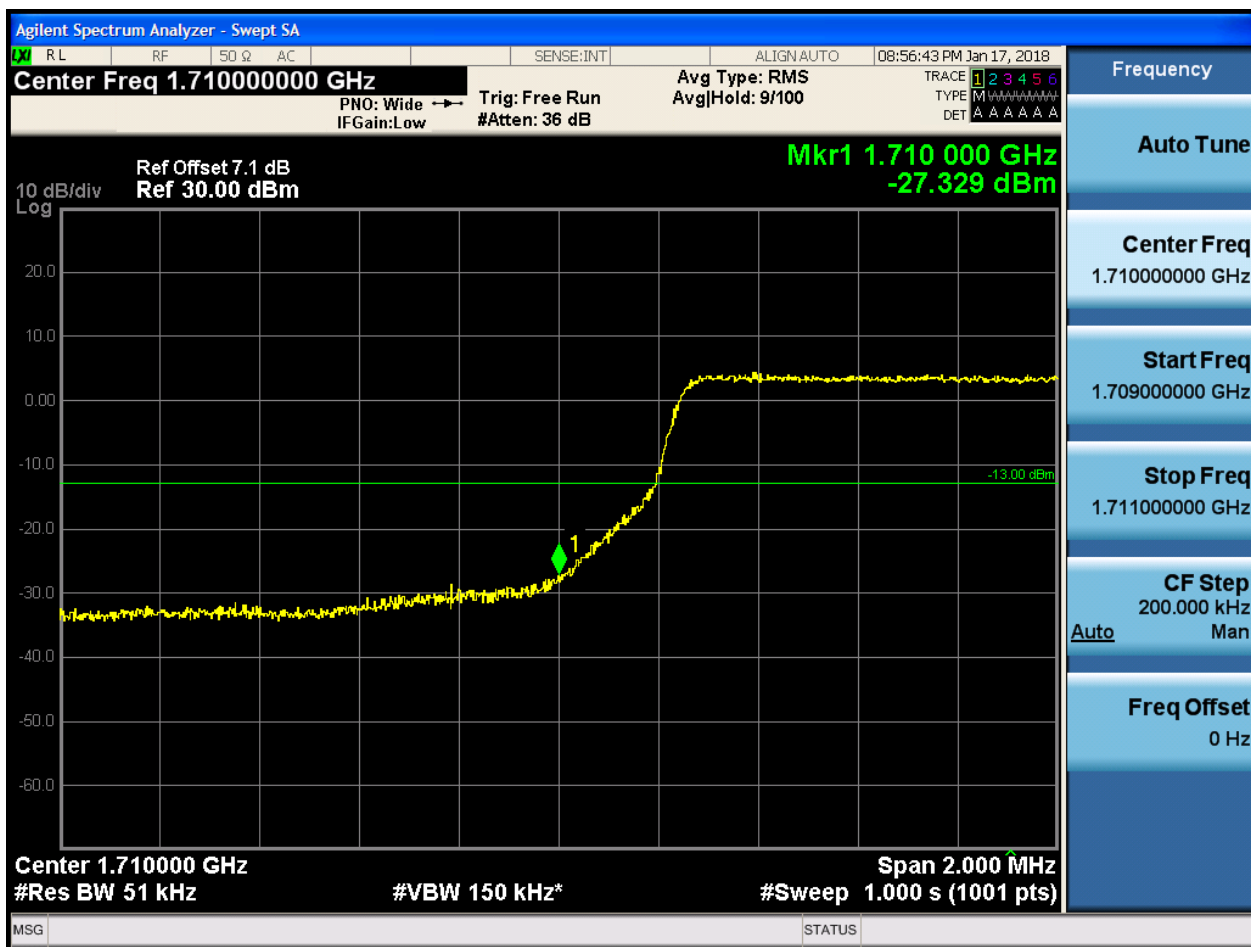


## 5.1.1.1.3.1.3 Test RB = RB12#6



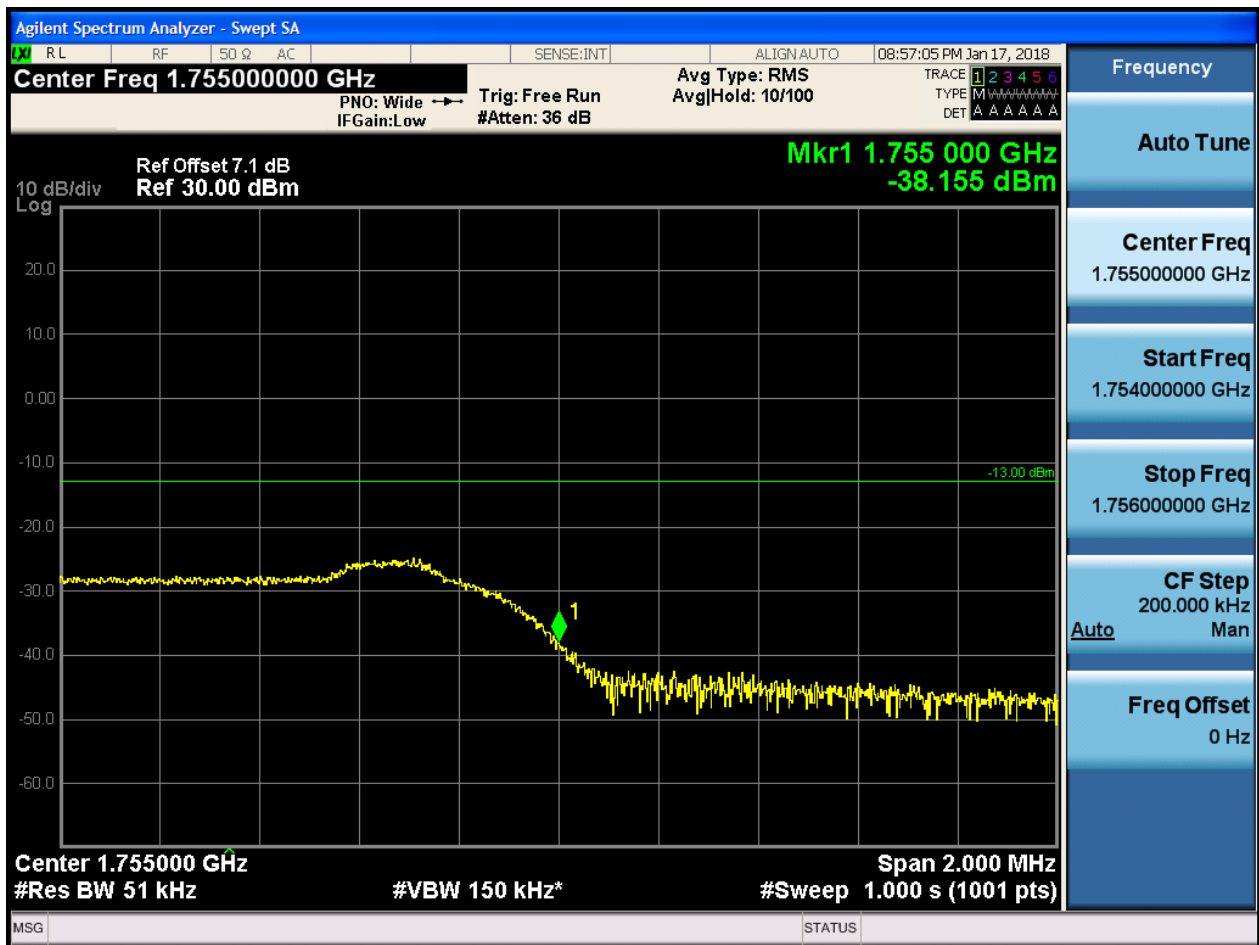


## 5.1.1.1.3.1.4 Test RB = RB25#0



### 5.1.1.1.3.2 Test Channel = HCH

#### 5.1.1.1.3.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

RL RF 50  $\Omega$  AC SENSE:INT ALIGN AUTO 08:57:21 PM Jan 17, 2018

Center Freq 1.755000000 GHz Avg Type: RMS  
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 10/100  
#Atten: 36 dB

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 7.1 dB  
Ref 30.00 dBm

Mkr1 1.755 010 GHz  
-19.671 dBm

10 dB/div  
Log

Center 1.755000 GHz  
#Res BW 51 kHz  
#VBW 150 kHz\*  
Span 2.000 MHz  
#Sweep 1.000 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



## 5.1.1.1.3.2.3 Test RB = RB12#6





Agilent Spectrum Analyzer - Swept SA

RL RF 50  $\Omega$  AC SENSE:INT ALIGN AUTO 08:57:54 PM Jan 17, 2018

Center Freq 1.755000000 GHz Avg Type: RMS  
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 10/100  
#Atten: 36 dB

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 7.1 dB  
Ref 30.00 dBm

Mkr1 1.755 000 GHz  
-29.403 dBm

10 dB/div  
Log

-13.00 dBm

Center 1.755000 GHz  
#Res BW 51 kHz

#VBW 150 kHz\*

Span 2.000 MHz  
#Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq  
1.755000000 GHz

Start Freq  
1.754000000 GHz

Stop Freq  
1.756000000 GHz

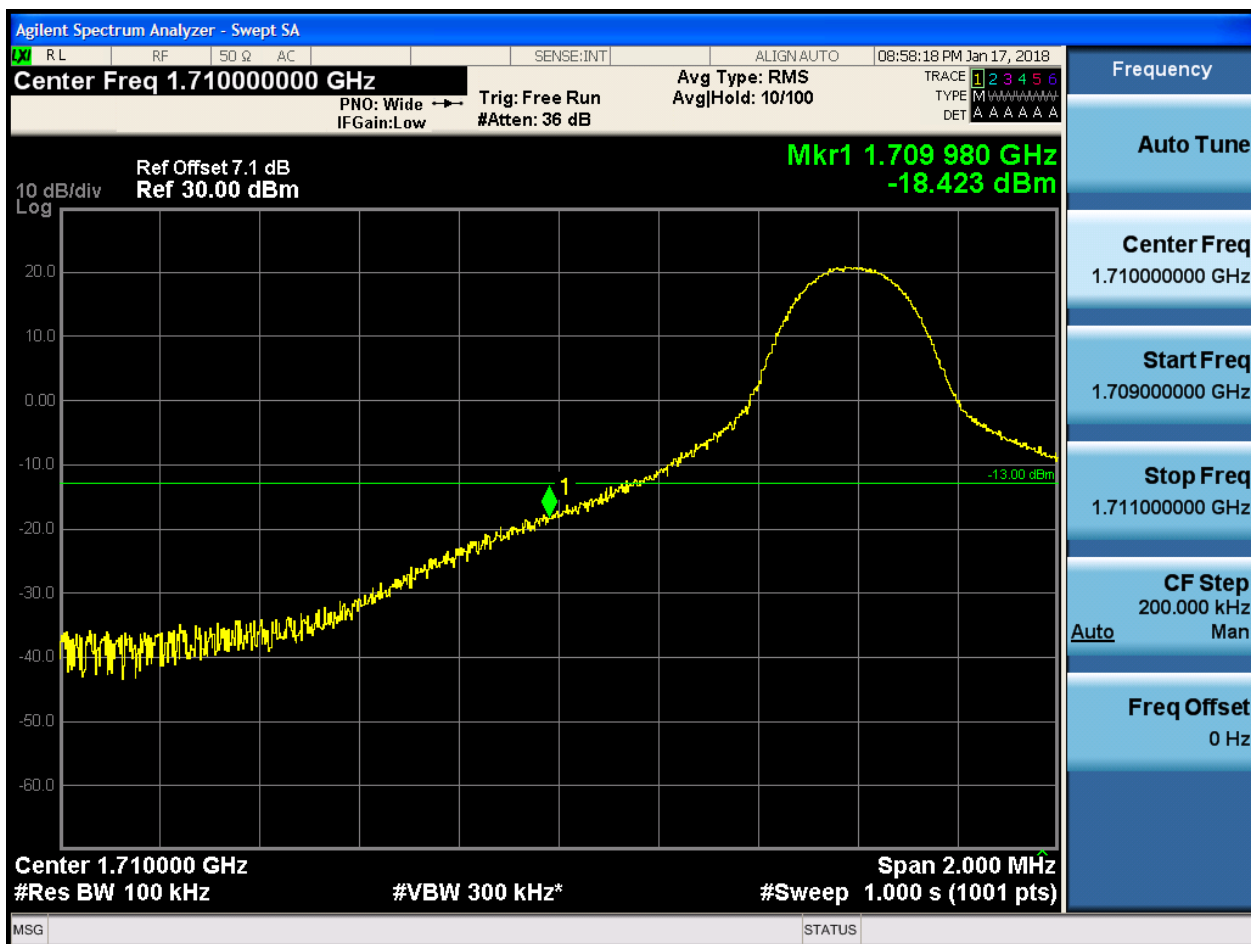
CF Step  
200.000 kHz  
Auto Man

Freq Offset  
0 Hz

#### 5.1.1.1.4 Test Bandwidth = 10

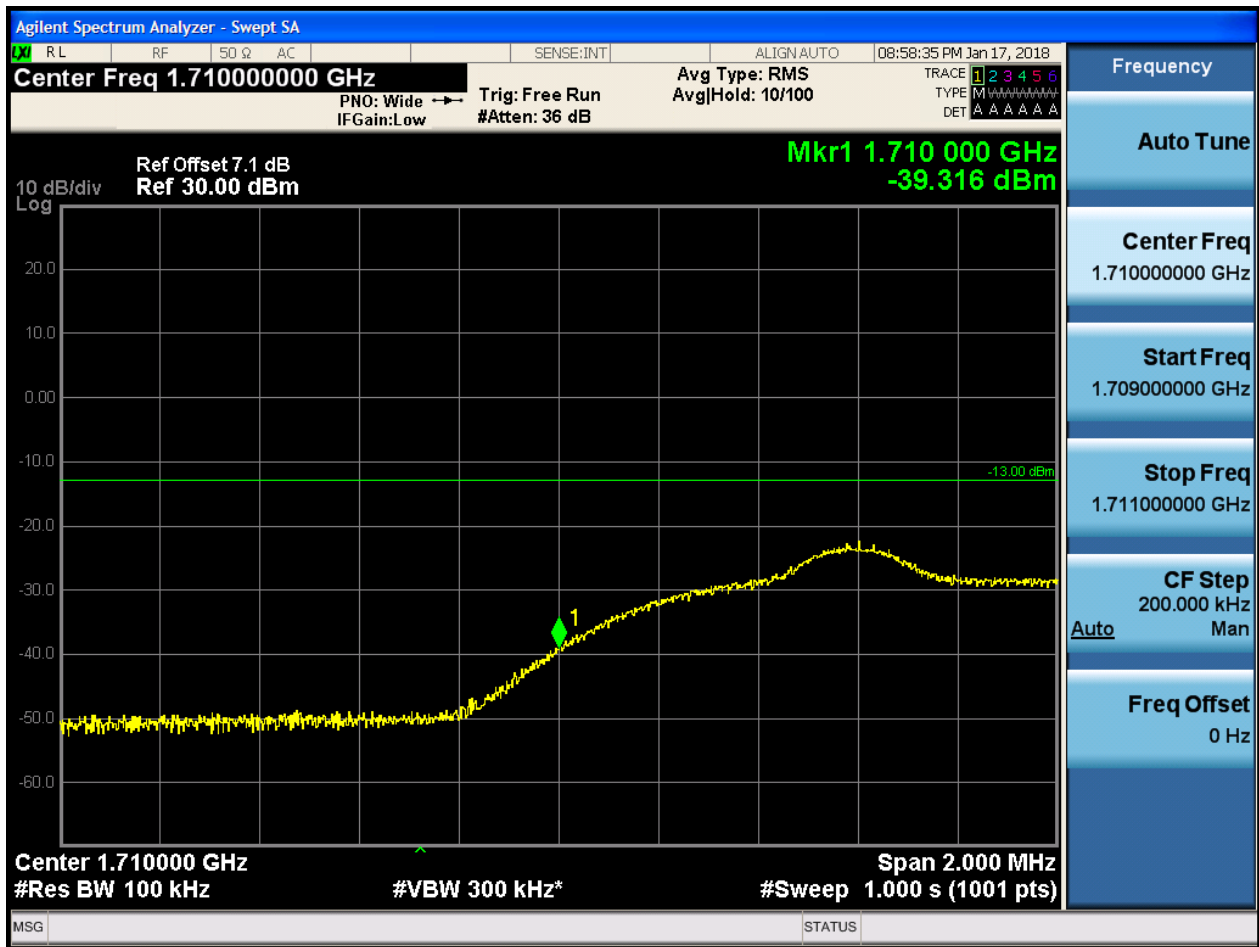
##### 5.1.1.1.4.1 Test Channel = LCH

##### 5.1.1.1.4.1.1 Test RB = RB1#0





## 5.1.1.1.4.1.2 Test RB = RB1#49





Agilent Spectrum Analyzer - Swept SA

RL RF 50  $\Omega$  AC SENSE:INT ALIGN AUTO 08:58:52 PM Jan 17, 2018

Center Freq 1.710000000 GHz Avg Type: RMS  
PNO: Wide → Trg: Free Run Avg/Hold: 10/100  
IFGain:Low #Atten: 36 dB

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

Frequency

Auto Tune

Center Freq  
1.710000000 GHz

Start Freq  
1.709000000 GHz

Stop Freq  
1.711000000 GHz

CF Step  
200.000 kHz  
Auto Man

Freq Offset  
0 Hz

10 dB/div  
Log

Ref Offset 7.1 dB  
Ref 30.00 dBm

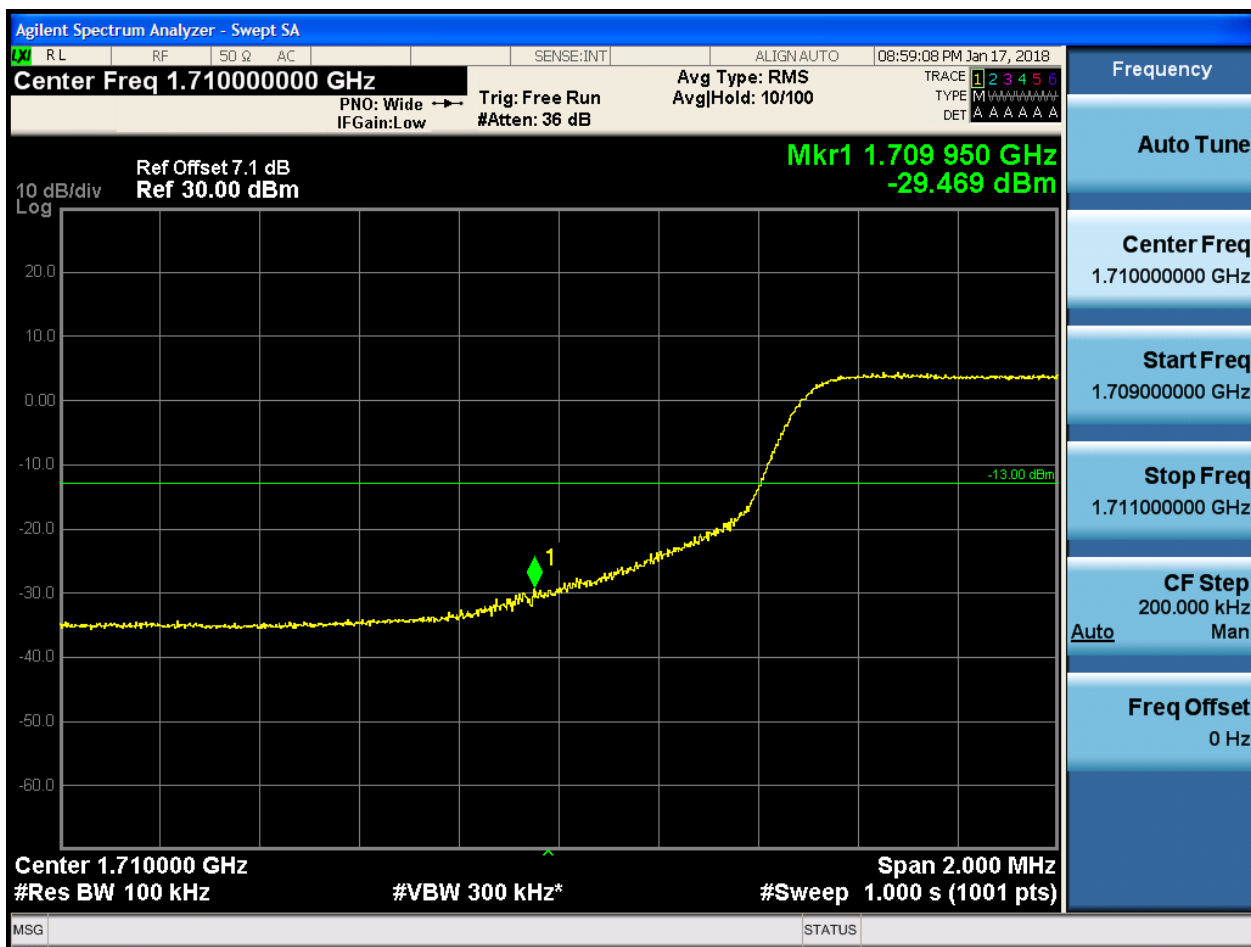
Mkr1 1.710 000 GHz  
-34.634 dBm

Center 1.710000 GHz  
#Res BW 100 kHz #VBW 300 kHz\* Span 2.000 MHz  
#Sweep 1.000 s (1001 pts)

MSG STATUS

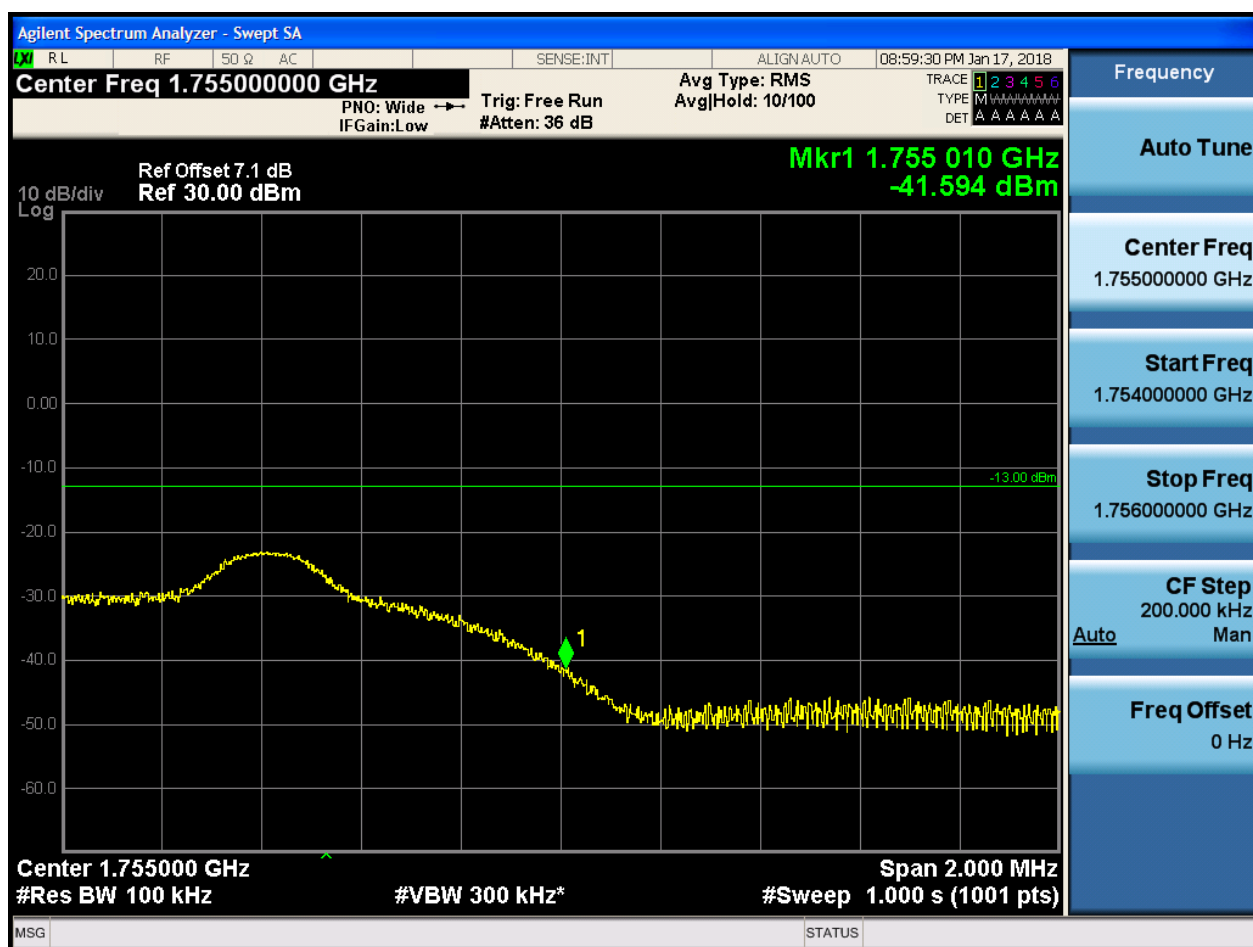


## 5.1.1.1.4.1.4 Test RB = RB50#0



#### 5.1.1.1.4.2 Test Channel = HCH

#### 5.1.1.1.4.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

RL RF 50  $\Omega$  AC SENSE:INT ALIGN AUTO 08:59:47 PM Jan 17, 2018

Center Freq 1.755000000 GHz Avg Type: RMS  
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 10/100  
#Atten: 36 dB

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 7.1 dB  
Ref 30.00 dBm

Mkr1 1.755 040 GHz  
-18.511 dBm

10 dB/div  
Log

Center 1.755000 GHz  
#Res BW 100 kHz #VBW 300 kHz\* Span 2.000 MHz  
#Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq  
1.755000000 GHz

Start Freq  
1.754000000 GHz

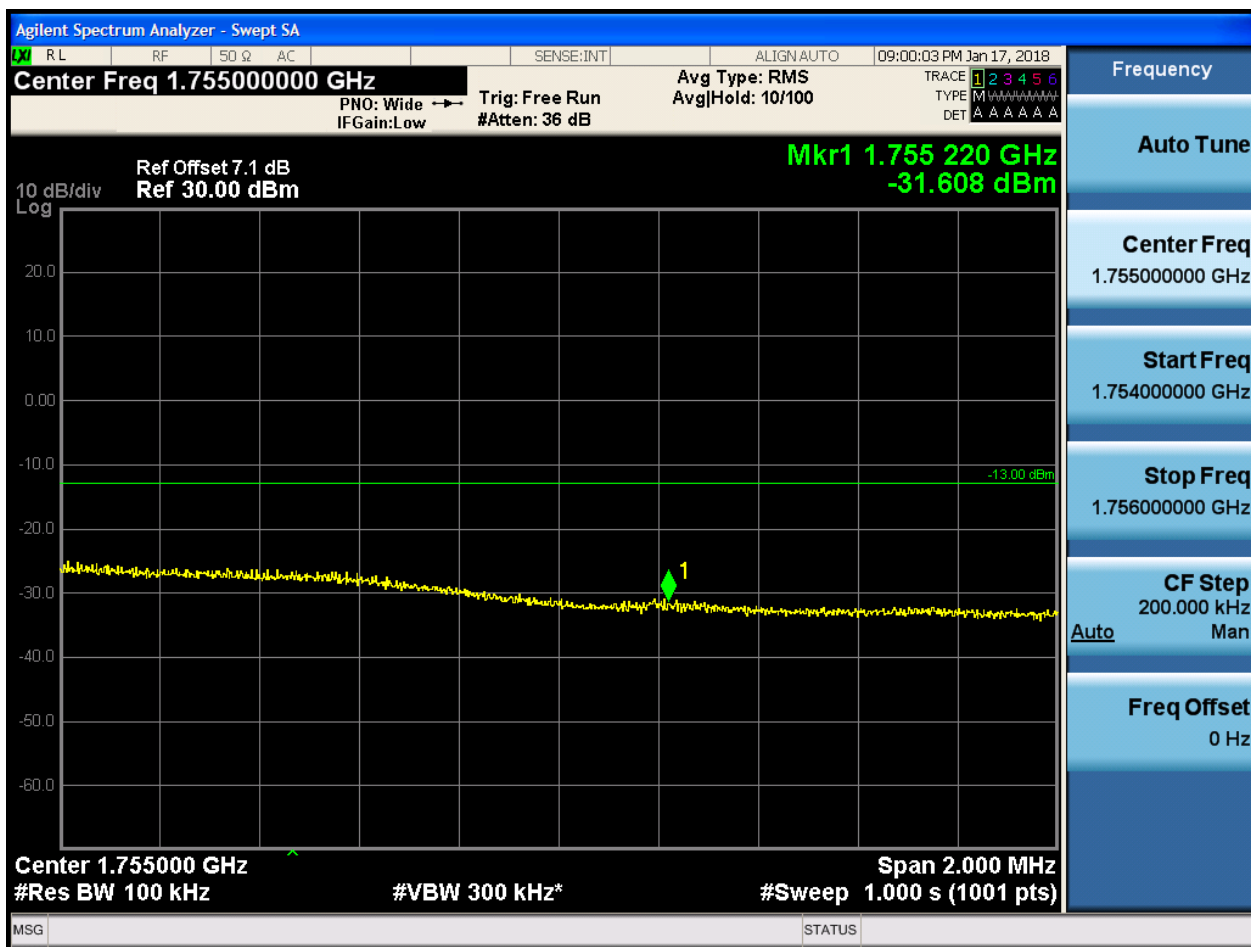
Stop Freq  
1.756000000 GHz

CF Step  
200.000 kHz  
Auto Man

Freq Offset  
0 Hz



## 5.1.1.1.4.2.3 Test RB = RB25#13





Agilent Spectrum Analyzer - Swept SA

RL RF 50  $\Omega$  AC SENSE:INT ALIGN AUTO 09:00:20 PM Jan 17, 2018

Center Freq 1.755000000 GHz Avg Type: RMS  
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 10/100  
#Atten: 36 dB

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 7.1 dB  
Ref 30.00 dBm

Mkr1 1.755 000 GHz  
-30.764 dBm

10 dB/div  
Log

20.0  
10.0  
0.0  
-10.0  
-20.0  
-30.0  
-40.0  
-50.0  
-60.0

-13.00 dBm

1

Center 1.755000 GHz Span 2.000 MHz  
#Res BW 100 kHz #VBW 300 kHz\* #Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq  
1.755000000 GHz

Start Freq  
1.754000000 GHz

Stop Freq  
1.756000000 GHz

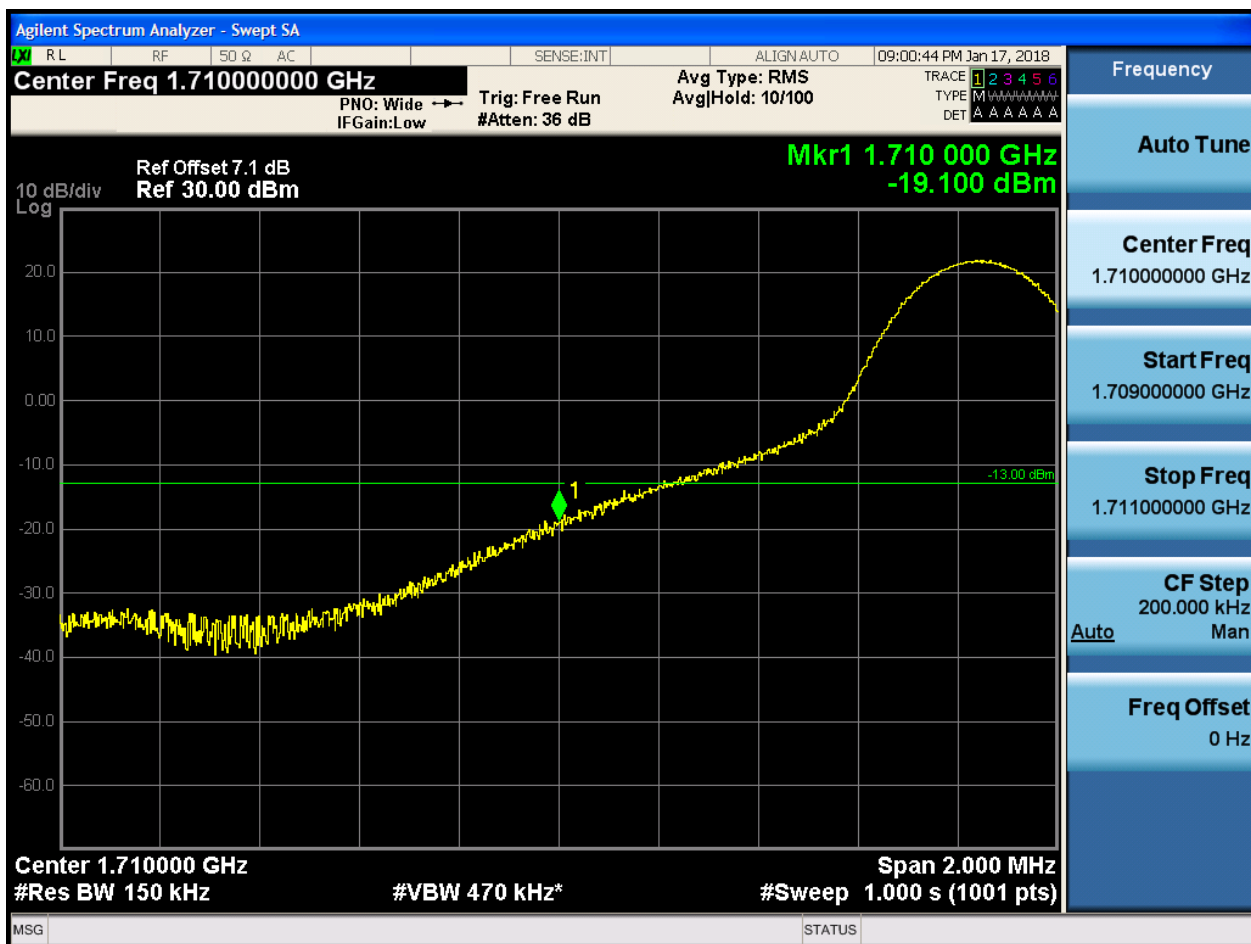
CF Step  
200.000 kHz  
Auto Man

Freq Offset  
0 Hz

### 5.1.1.1.5 Test Bandwidth = 15

#### 5.1.1.1.5.1 Test Channel = LCH

##### 5.1.1.1.5.1.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

Center Freq 1.710000000 GHz

Ref Offset 7.1 dB  
Ref 30.00 dBm

10 dB/div  
Log

Mkr1 1.709 990 GHz  
-40.301 dBm

Center 1.710000 GHz  
#Res BW 150 kHz  
#VBW 470 kHz\*

Span 2.000 MHz  
#Sweep 1.000 s (1001 pts)

Auto Tune

Center Freq  
1.710000000 GHz

Start Freq  
1.709000000 GHz

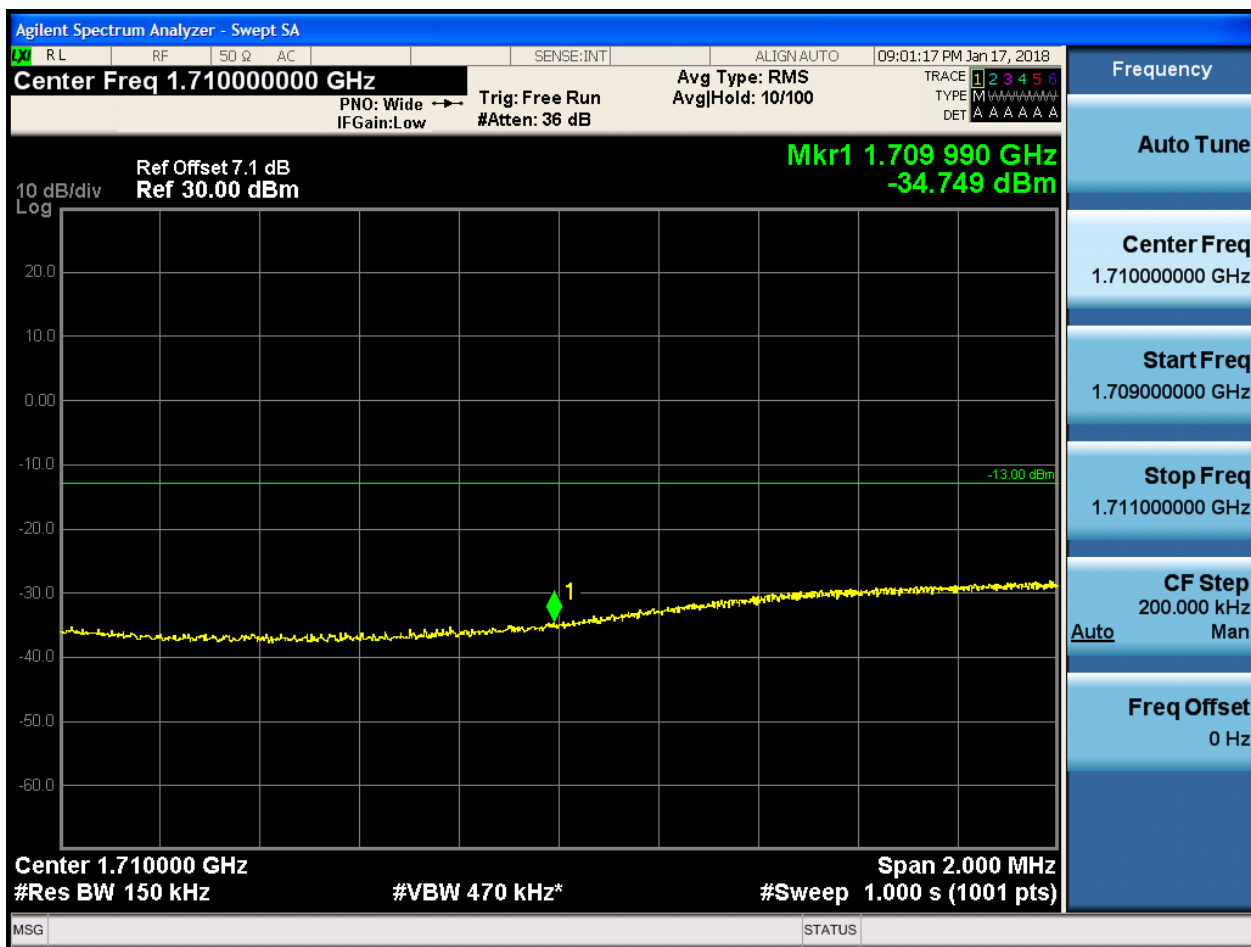
Stop Freq  
1.711000000 GHz

CF Step  
200.000 kHz  
Auto Man

Freq Offset  
0 Hz



## 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





Agilent Spectrum Analyzer - Swept SA

RL RF 50  $\Omega$  AC SENSE:INT ALIGN AUTO 09:02:12 PM Jan 17, 2018

Center Freq 1.755000000 GHz Avg Type: RMS  
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 10/100  
#Atten: 36 dB

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

Ref Offset 7.1 dB  
Ref 30.00 dBm

Mkr1 1.755 000 GHz  
-19.297 dBm

10 dB/div  
Log

Center 1.755000 GHz  
#Res BW 150 kHz  
#VBW 470 kHz\*  
Span 2.000 MHz  
#Sweep 1.000 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



Agilent Spectrum Analyzer - Swept SA

RL RF 50  $\Omega$  AC SENSE:INT ALIGN AUTO 09:02:28 PM Jan 17, 2018

Center Freq 1.755000000 GHz Avg Type: RMS  
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 10/100  
#Atten: 36 dB

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 7.1 dB  
Ref 30.00 dBm

Mkr1 1.755 940 GHz  
-30.191 dBm

10 dB/div  
Log

Center 1.755000 GHz  
#Res BW 150 kHz  
#VBW 470 kHz\*  
Span 2.000 MHz  
#Sweep 1.000 s (1001 pts)

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

MSG STATUS



## 5.1.1.1.5.2.4 Test RB = RB75#0

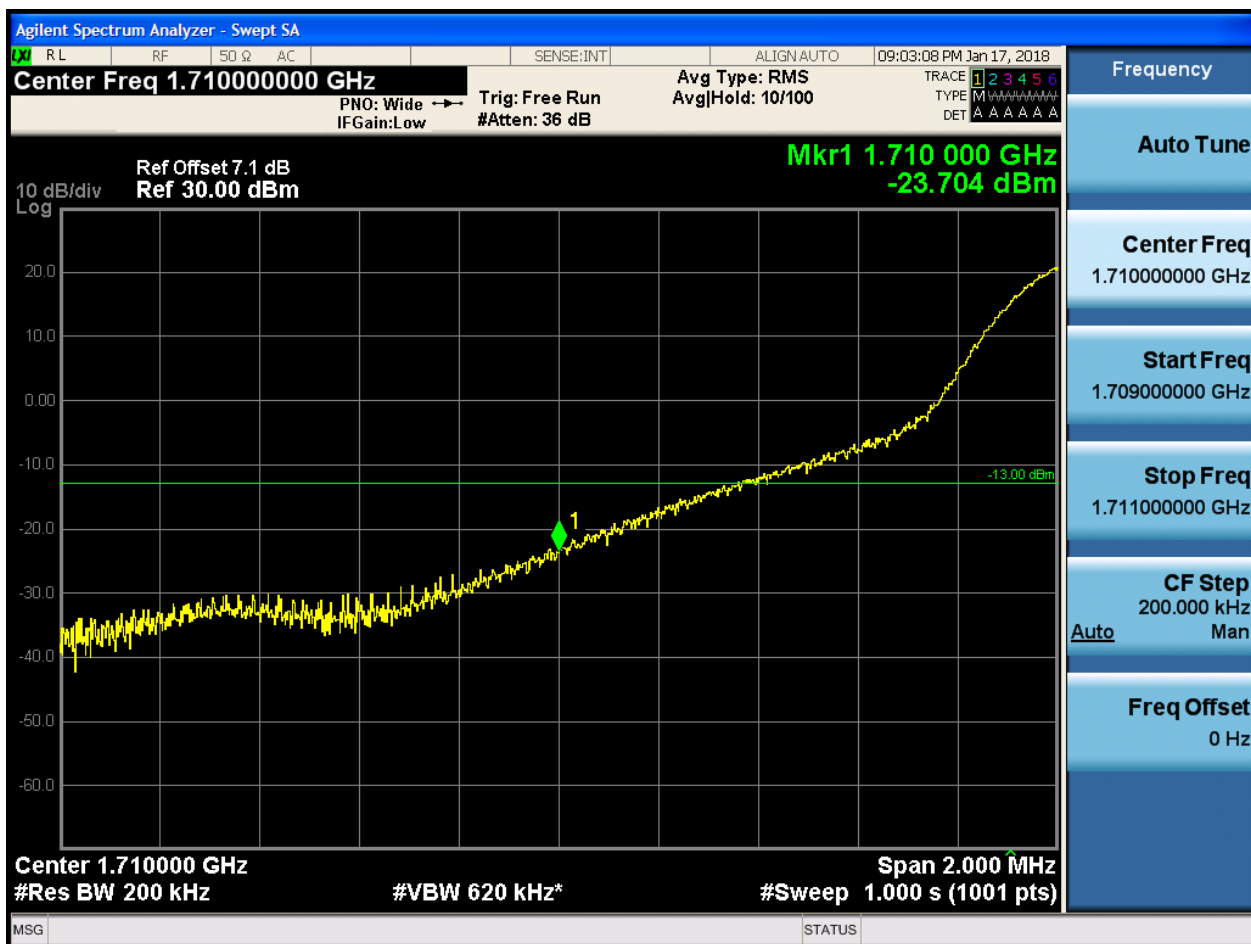




## 5.1.1.1.6 Test Bandwidth = 20

## 5.1.1.1.6.1 Test Channel = LCH

## 5.1.1.1.6.1.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

RL RF 50  $\Omega$  AC SENSE:INT ALIGN AUTO 09:03:25 PM Jan 17, 2018

Center Freq 1.710000000 GHz Avg Type: RMS  
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 10/100  
#Atten: 36 dB

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 7.1 dB  
Ref 30.00 dBm

Mkr1 1.709 990 GHz  
-40.031 dBm

10 dB/div  
Log

Center 1.710000 GHz  
#Res BW 200 kHz  
#VBW 620 kHz\*  
Span 2.000 MHz  
#Sweep 1.000 s (1001 pts)

MSG STATUS



Agilent Spectrum Analyzer - Swept SA

RL RF 50  $\Omega$  AC SENSE:INT ALIGN AUTO 09:03:42 PM Jan 17, 2018

Center Freq 1.710000000 GHz Avg Type: RMS  
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 10/100  
#Atten: 36 dB

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

Ref Offset 7.1 dB  
Ref 30.00 dBm

Mkr1 1.709 590 GHz  
-34.260 dBm

10 dB/div  
Log

-13.00 dBm

Center 1.710000 GHz  
#Res BW 200 kHz  
#VBW 620 kHz\*  
Span 2.000 MHz  
#Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq  
1.710000000 GHz

Start Freq  
1.709000000 GHz

Stop Freq  
1.711000000 GHz

CF Step  
200.000 kHz  
Auto Man

Freq Offset  
0 Hz



Agilent Spectrum Analyzer - Swept SA

RL RF 50  $\Omega$  AC SENSE:INT ALIGN AUTO 09:03:58 PM Jan 17, 2018

Center Freq 1.710000000 GHz Avg Type: RMS  
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 10/100  
#Atten: 36 dB

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 7.1 dB  
Ref 30.00 dBm

Mkr1 1.709 990 GHz  
-30.882 dBm

10 dB/div  
Log

Center 1.710000 GHz  
#Res BW 200 kHz  
#VBW 620 kHz\*  
Span 2.000 MHz  
#Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency  
Auto Tune  
Center Freq  
1.710000000 GHz  
Start Freq  
1.709000000 GHz  
Stop Freq  
1.711000000 GHz  
CF Step  
200.000 kHz  
Auto  
Man  
Freq Offset  
0 Hz

#### 5.1.1.1.6.2 Test Channel = HCH

#### 5.1.1.1.6.2.1 Test RB = RB1#0

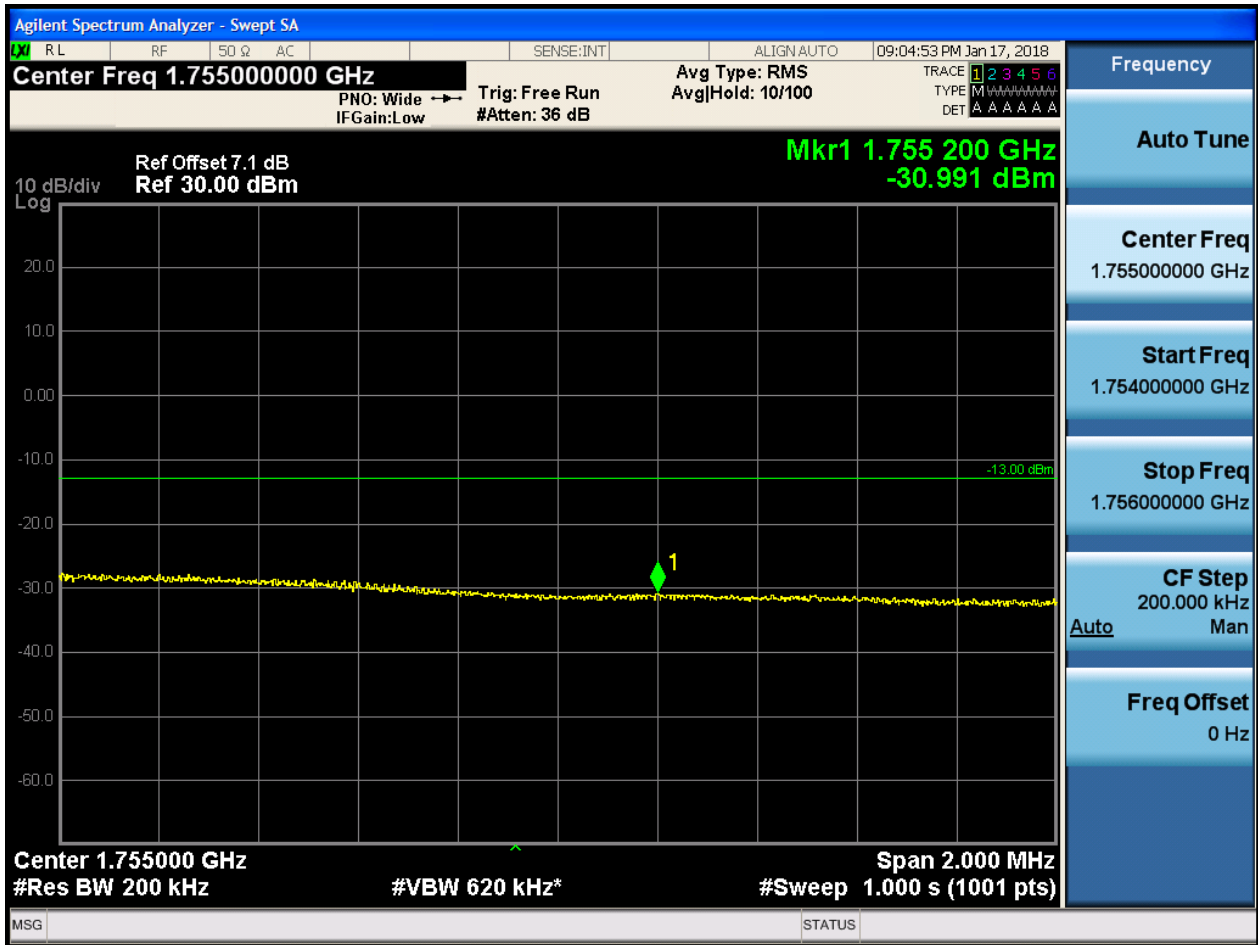




## 5.1.1.1.6.2.2 Test RB = RB1#99



#### 5.1.1.1.6.2.3 Test RB = RB50#25





Agilent Spectrum Analyzer - Swept SA

RL RF 50  $\Omega$  AC SENSE:INT ALIGN: AUTO 09:05:10 PM Jan 17, 2018

Center Freq 1.755000000 GHz Avg Type: RMS  
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 10/100  
#Atten: 36 dB

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

Ref Offset 7.1 dB  
Ref 30.00 dBm

Mkr1 1.755 040 GHz  
-30.373 dBm

10 dB/div  
Log

Center 1.755000 GHz  
#Res BW 200 kHz  
#VBW 620 kHz  
Span 2.000 MHz  
#Sweep 1.000 s (1001 pts)

MSG STATUS

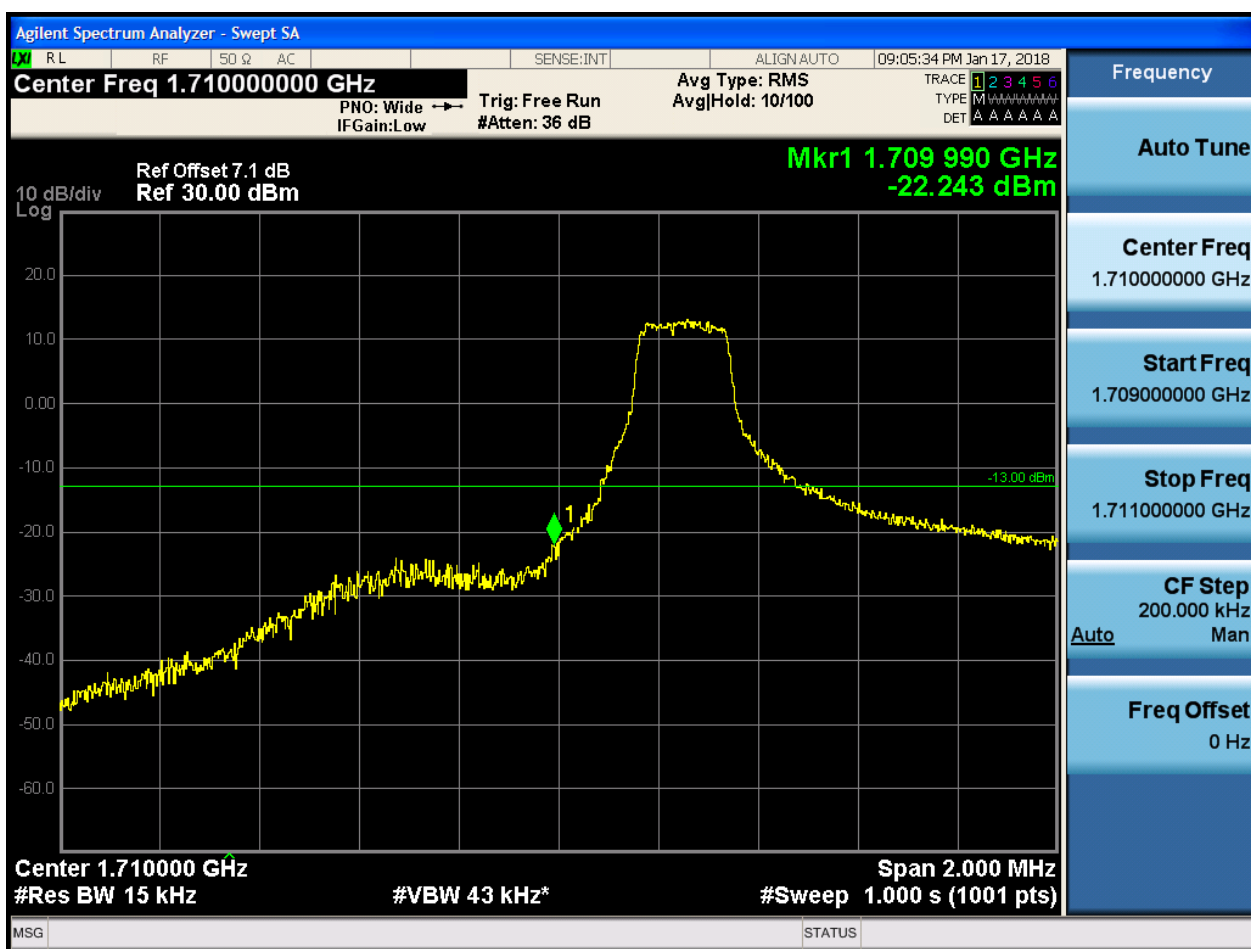


## 5.1.1.2 Test Mode = LTE/TM2

## 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





Agilent Spectrum Analyzer - Swept SA

RL RF 50  $\Omega$  AC SENSE:INT ALIGN AUTO 09:05:51 PM Jan 17, 2018

Center Freq 1.710000000 GHz Avg Type: RMS  
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 10/100  
#Atten: 36 dB

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 7.1 dB  
Ref 30.00 dBm

Mkr1 1.709 400 GHz  
-39.933 dBm

10 dB/div  
Log

Center 1.710000 GHz  
#Res BW 15 kHz #VBW 43 kHz\* Span 2.000 MHz  
#Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq  
1.710000000 GHz

Start Freq  
1.709000000 GHz

Stop Freq  
1.711000000 GHz

CF Step  
200.000 kHz  
Auto Man

Freq Offset  
0 Hz



Agilent Spectrum Analyzer - Swept SA

RL RF 50  $\Omega$  AC SENSE:INT ALIGN AUTO 09:06:08 PM Jan 17, 2018

Center Freq 1.710000000 GHz Avg Type: RMS  
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 10/100  
#Atten: 36 dB

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 7.1 dB  
Ref 30.00 dBm

Mkr1 1.709 990 GHz  
-27.936 dBm

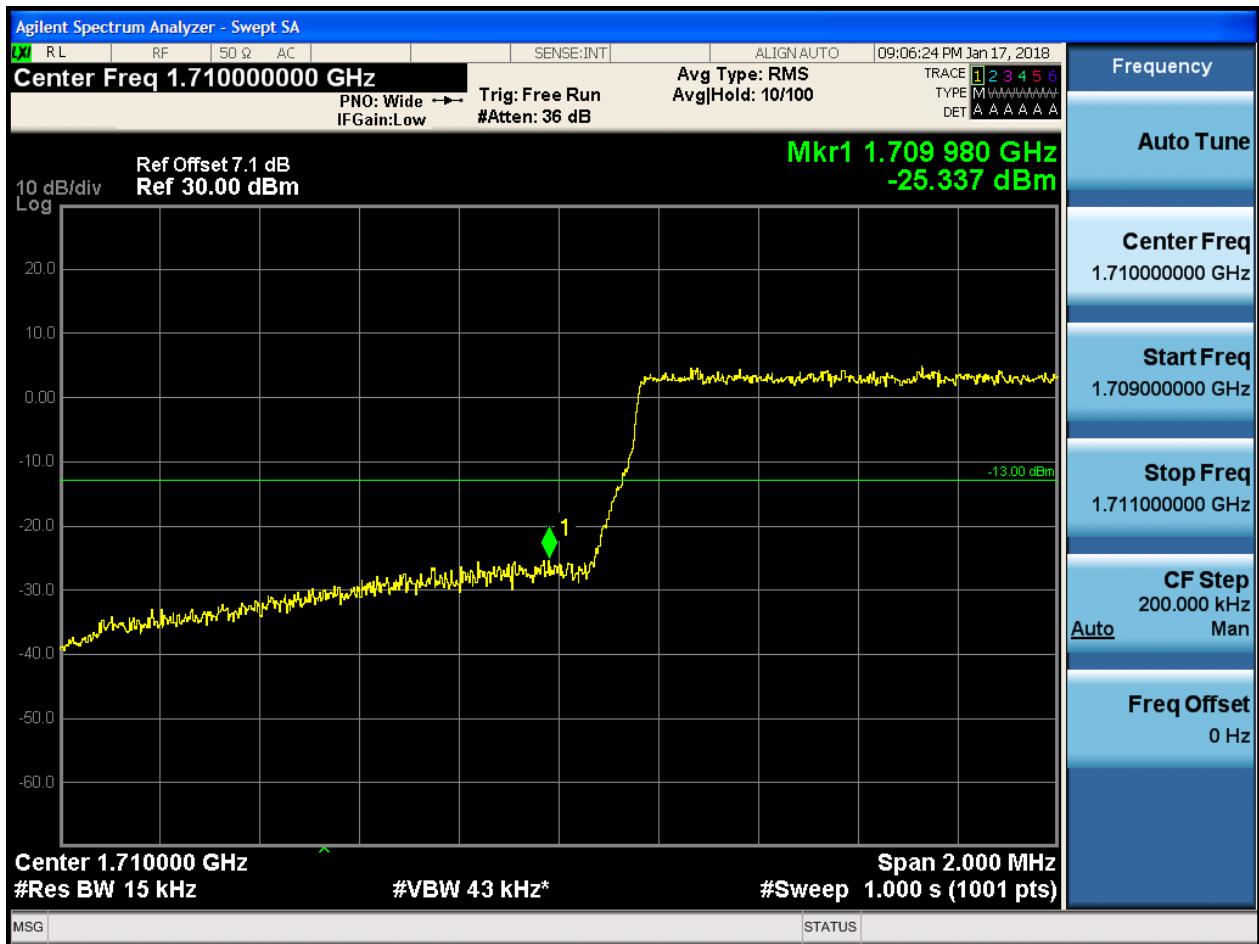
10 dB/div  
Log

Center 1.710000 GHz  
#Res BW 15 kHz #VBW 43 kHz\* Span 2.000 MHz  
#Sweep 1.000 s (1001 pts)

MSG STATUS

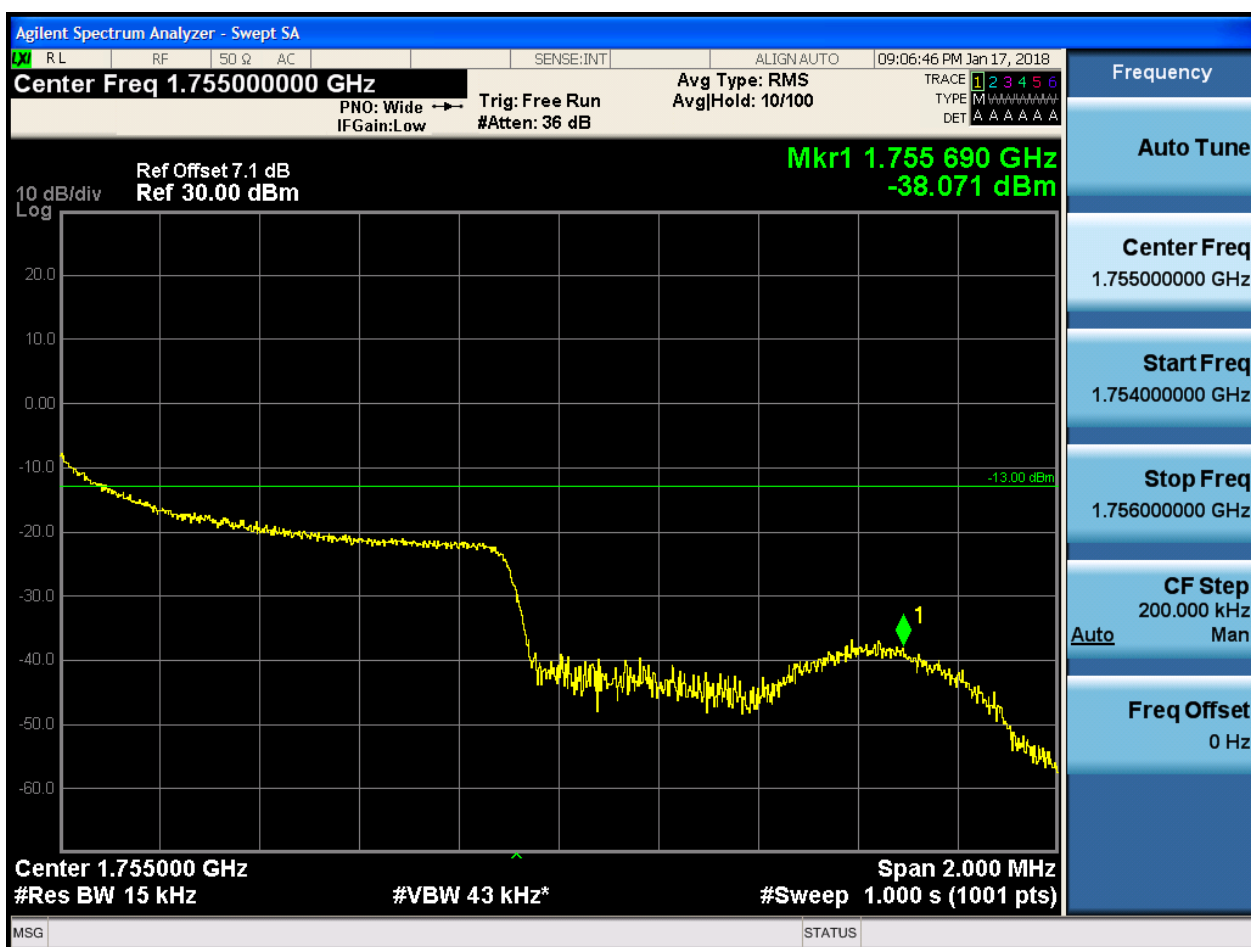


## 5.1.1.2.1.1.4 Test RB = RB6#0



### 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

RL RF 50  $\Omega$  AC SENSE:INT ALIGN AUTO 09:07:03 PM Jan 17, 2018

Center Freq 1.755000000 GHz Avg Type: RMS  
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 10/100  
#Atten: 36 dB

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

Ref Offset 7.1 dB  
Ref 30.00 dBm

Mkr1 1.755 290 GHz  
-24.342 dBm

10 dB/div  
Log

Center 1.755000 GHz  
#Res BW 15 kHz

#VBW 43 kHz\*

Span 2.000 MHz  
#Sweep 1.000 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



Agilent Spectrum Analyzer - Swept SA

Center Freq 1.755000000 GHz

Ref Offset 7.1 dB  
Ref 30.00 dBm

10 dB/div  
Log

Mkr1 1.755 080 GHz  
-26.041 dBm

Center 1.755000 GHz  
#Res BW 15 kHz  
#VBW 43 kHz\*

Span 2.000 MHz  
#Sweep 1.000 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  
Auto

Freq Offset  
0 Hz

Center Freq 1.755000000 GHz

Avg Type: RMS  
Avg/Hold: 10/100

Trig: Free Run  
#Atten: 36 dB

Ref Offset 7.1 dB  
Ref 30.00 dBm

10 dB/div  
Log

Mkr1 1.755 080 GHz  
-26.041 dBm

Center 1.755000 GHz  
#Res BW 15 kHz  
#VBW 43 kHz\*

Span 2.000 MHz  
#Sweep 1.000 s (1001 pts)

Auto Tune

Center Freq  
1.755000000 GHz

Start Freq  
1.754000000 GHz

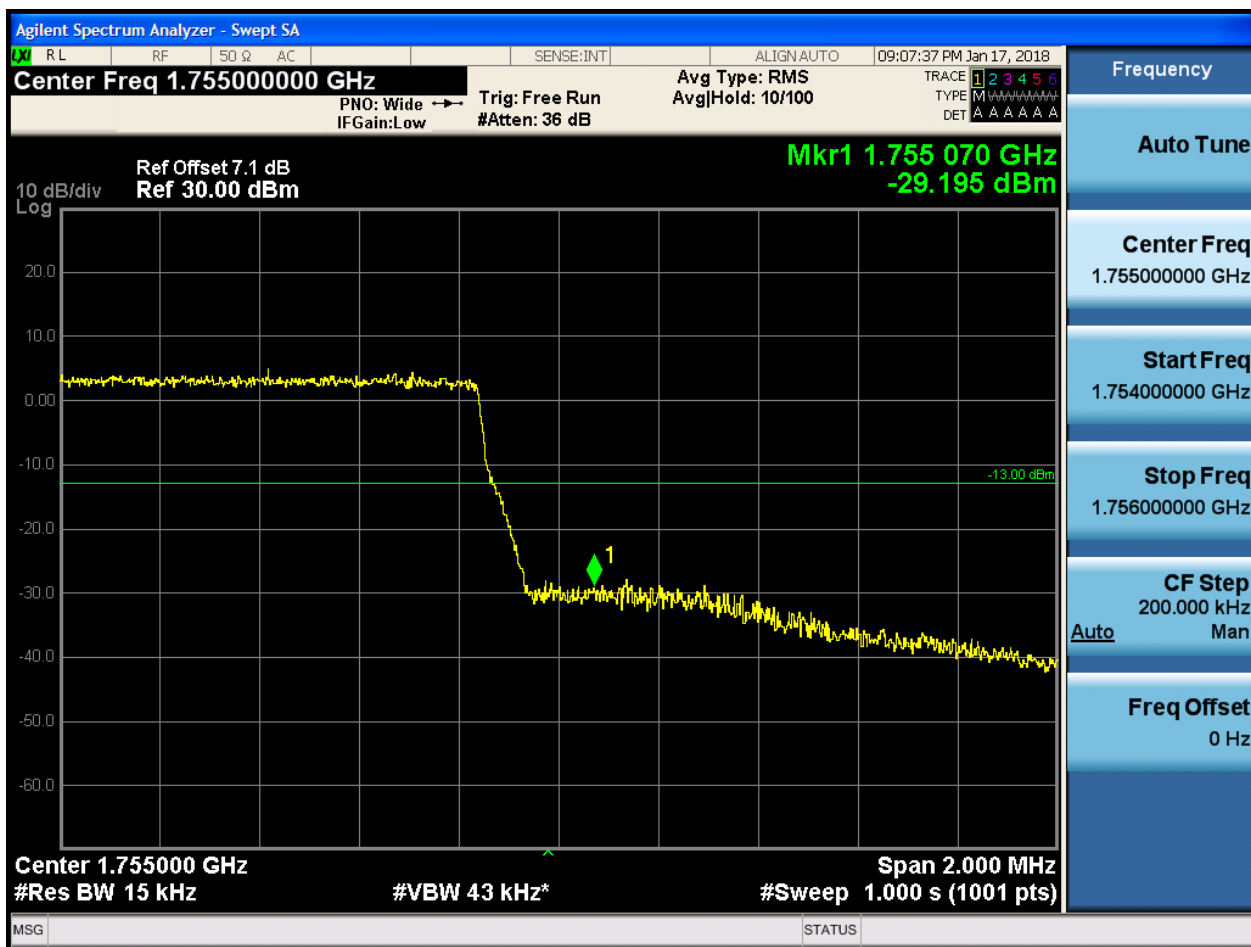
Stop Freq  
1.756000000 GHz

CF Step  
200.000 kHz  
Auto

Freq Offset  
0 Hz



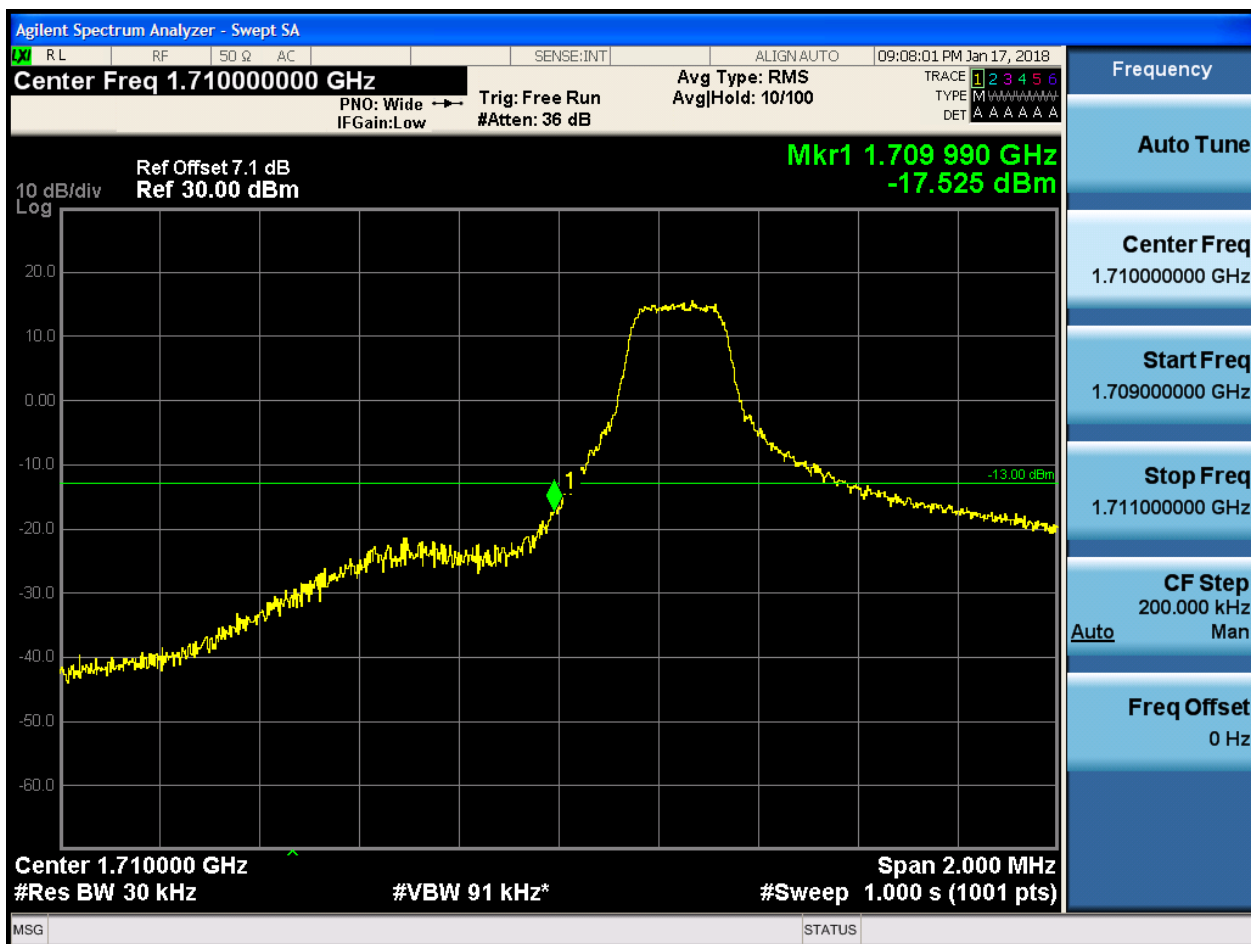
## 5.1.1.2.1.2.4 Test RB = RB6#0



### 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





Agilent Spectrum Analyzer - Swept SA

RL RF 50  $\Omega$  AC SENSE:INT ALIGN AUTO 09:08:17 PM Jan 17, 2018

Center Freq 1.710000000 GHz Avg Type: RMS  
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 10/100  
#Atten: 36 dB

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

Ref Offset 7.1 dB  
Ref 30.00 dBm

Mkr1 1.710 000 GHz  
-32.414 dBm

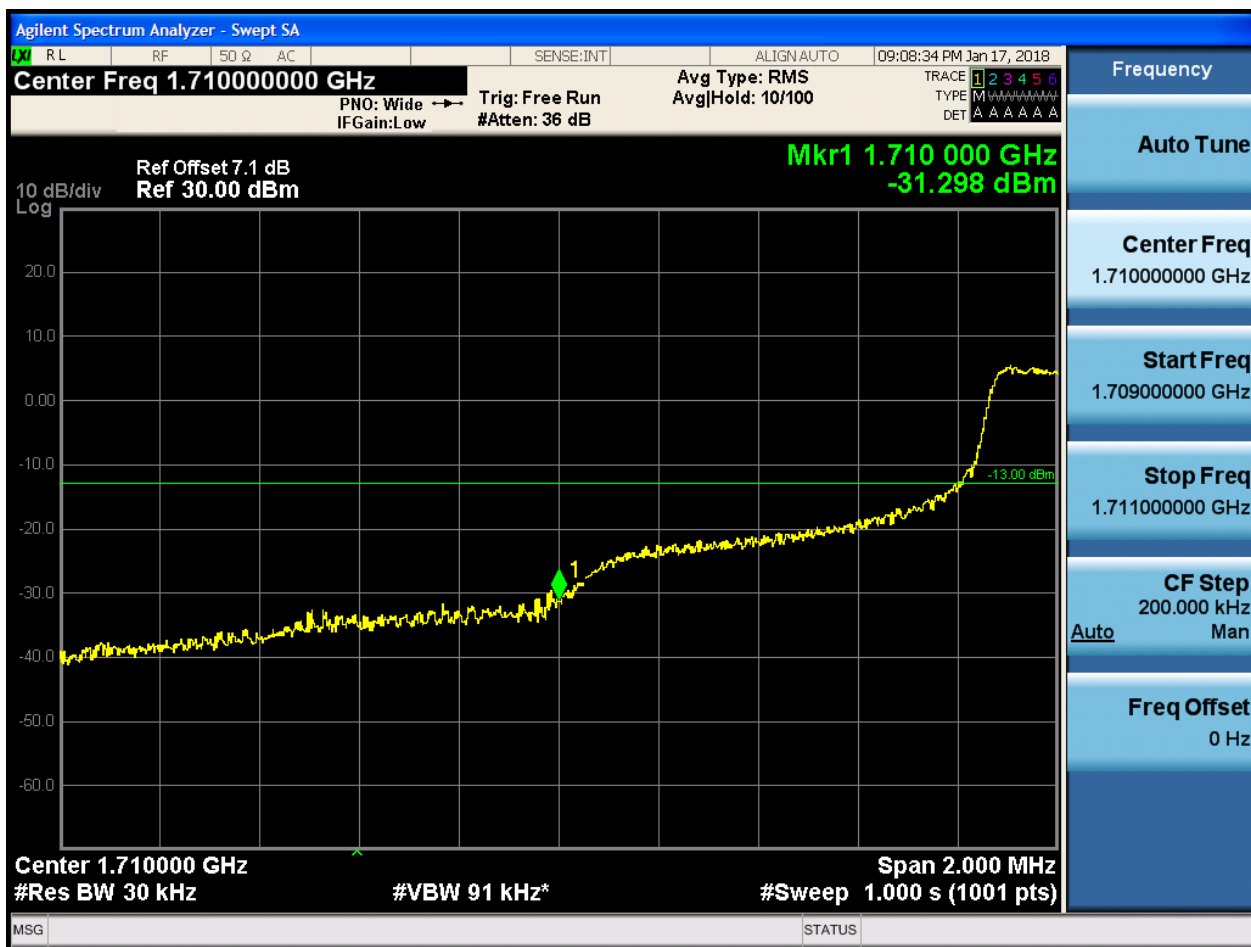
10 dB/div  
Log

Center 1.710000 GHz  
#Res BW 30 kHz  
#VBW 91 kHz\*  
Span 2.000 MHz  
#Sweep 1.000 s (1001 pts)

MSG STATUS



## 5.1.1.2.2.1.3 Test RB = RB8#4





Agilent Spectrum Analyzer - Swept SA

RL RF 50  $\Omega$  AC SENSE:INT ALIGN AUTO 09:08:51 PM Jan 17, 2018

Center Freq 1.710000000 GHz Avg Type: RMS  
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 10/100  
#Atten: 36 dB

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

Ref Offset 7.1 dB  
Ref 30.00 dBm

Mkr1 1.710 000 GHz  
-28.039 dBm

10 dB/div  
Log

-13.00 dBm

Center 1.710000 GHz  
#Res BW 30 kHz  
#VBW 91 kHz\*  
Span 2.000 MHz  
#Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq  
1.710000000 GHz

Start Freq  
1.709000000 GHz

Stop Freq  
1.711000000 GHz

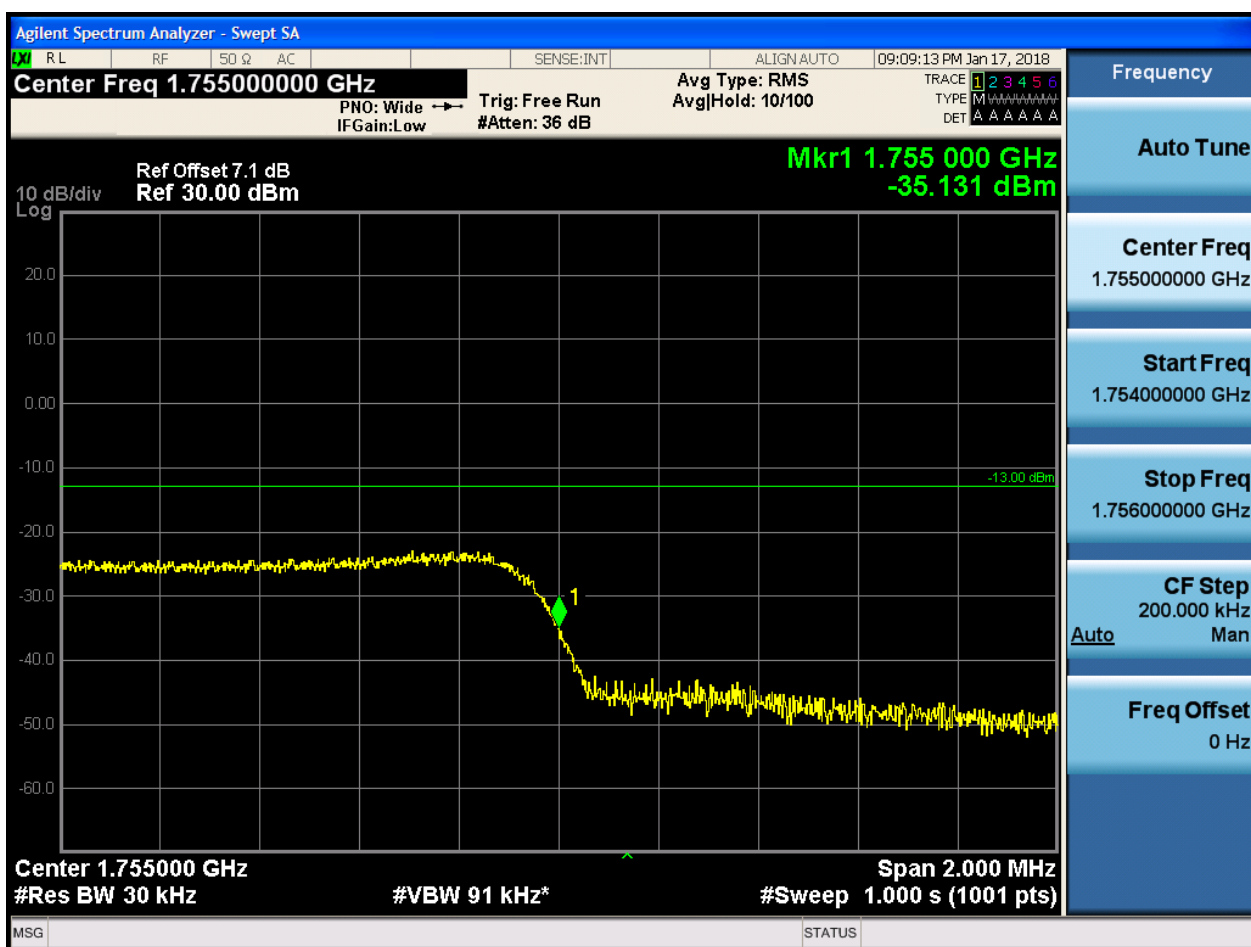
CF Step  
200.000 kHz  
Auto Man

Freq Offset  
0 Hz



## 5.1.1.2.2.2 Test Channel = HCH

## 5.1.1.2.2.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

Center Freq 1.755000000 GHz

Ref Offset 7.1 dB  
Ref 30.00 dBm

10 dB/div  
Log

Mkr1 1.755 000 GHz  
-17.500 dBm

Center 1.755000 GHz  
#Res BW 30 kHz  
#VBW 91 kHz\*  
Span 2.000 MHz  
#Sweep 1.000 s (1001 pts)

Trig: Free Run  
#Atten: 36 dB

Avg Type: RMS  
Avg|Hold: 10/100

Frequency

Auto Tune

Center Freq  
1.755000000 GHz

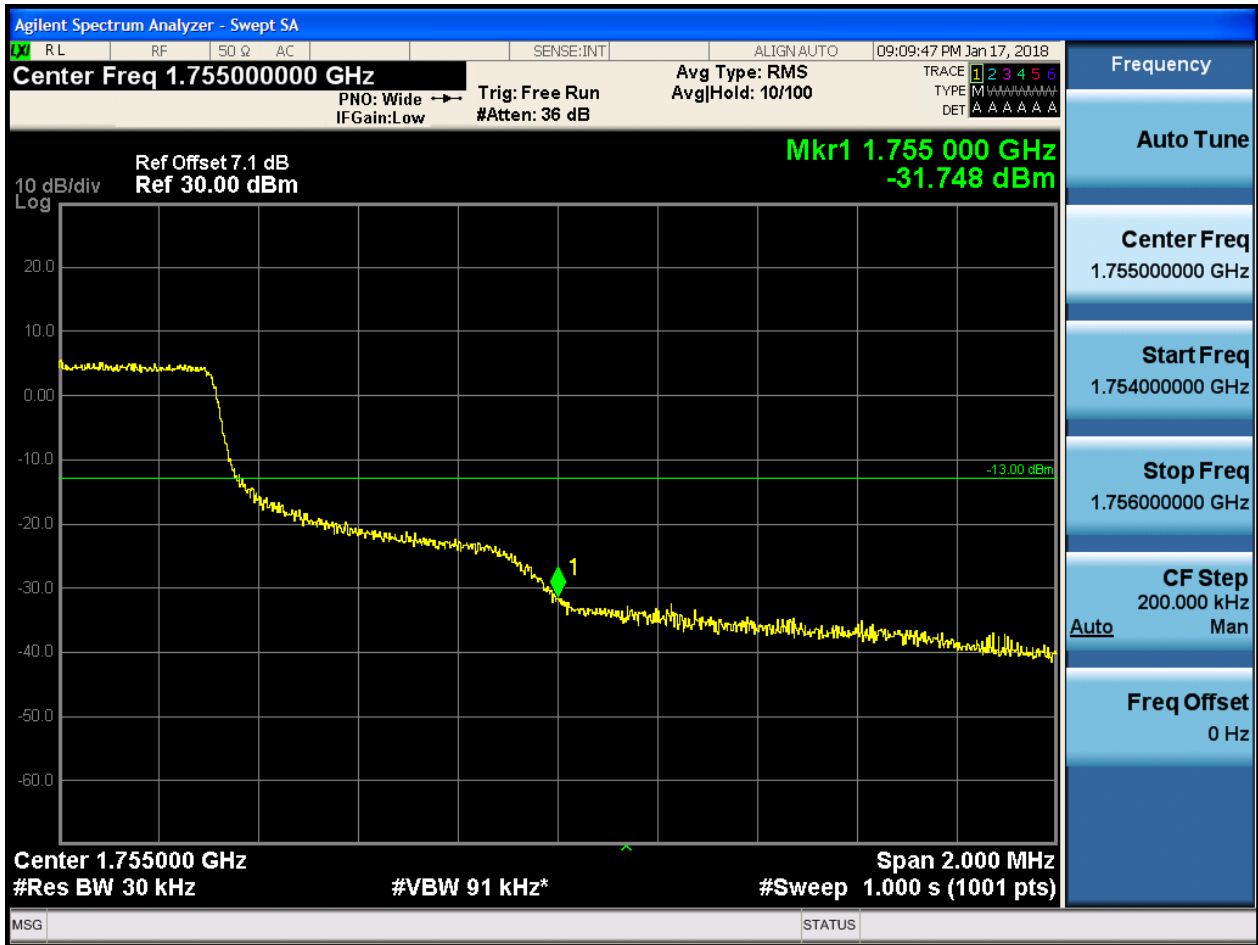
Start Freq  
1.754000000 GHz

Stop Freq  
1.756000000 GHz

CF Step  
200.000 kHz  
Auto Man

Freq Offset  
0 Hz

#### 5.1.1.2.2.2.3 Test RB = RB8#4





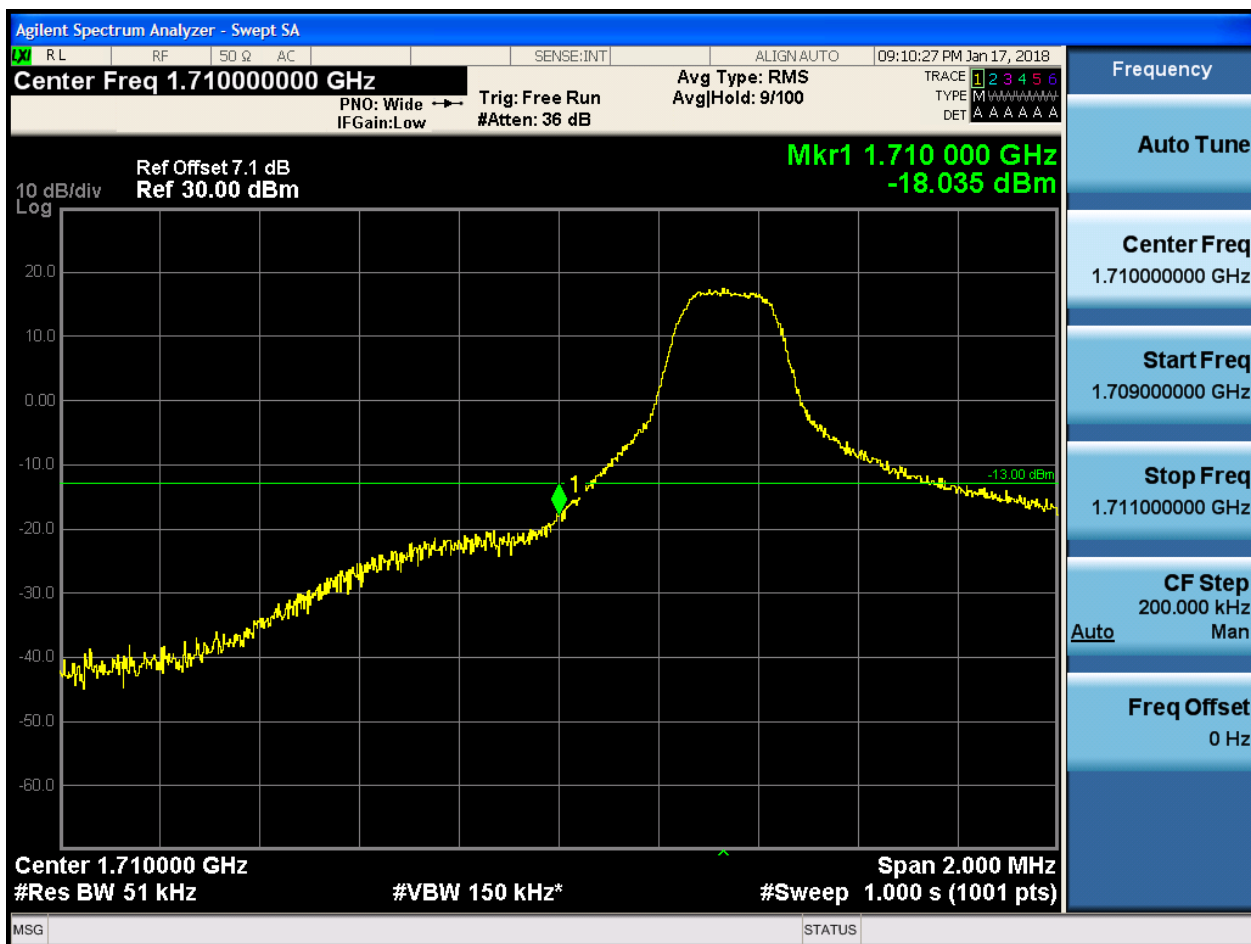
## 5.1.1.2.2.4 Test RB = RB15#0



### 5.1.1.2.3 Test Bandwidth = 5

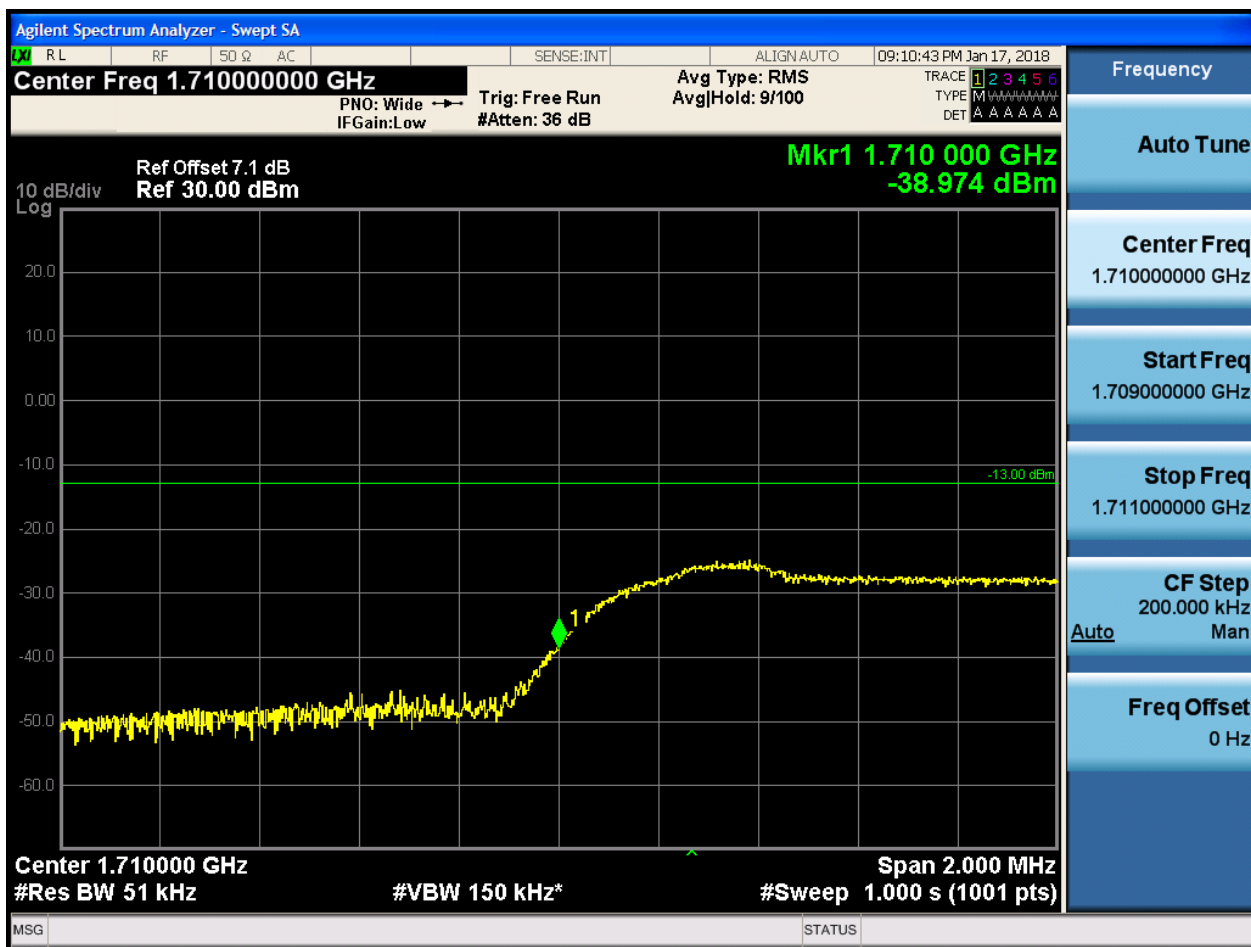
#### 5.1.1.2.3.1 Test Channel = LCH

##### 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





Agilent Spectrum Analyzer - Swept SA

RL RF 50  $\Omega$  AC SENSE:INT ALIGN AUTO 09:11:15 PM Jan 17, 2018

Center Freq 1.710000000 GHz Avg Type: RMS  
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 9/100  
#Atten: 36 dB

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 7.1 dB  
Ref 30.00 dBm

Mkr1 1.709 990 GHz  
-27.853 dBm

10 dB/div  
Log

Center 1.710000 GHz  
#Res BW 51 kHz  
#VBW 150 kHz  
Span 2.000 MHz  
#Sweep 1.000 s (1001 pts)

Frequency

Auto Tune

Center Freq  
1.710000000 GHz

Start Freq  
1.709000000 GHz

Stop Freq  
1.711000000 GHz

CF Step  
200.000 kHz  
Auto Man

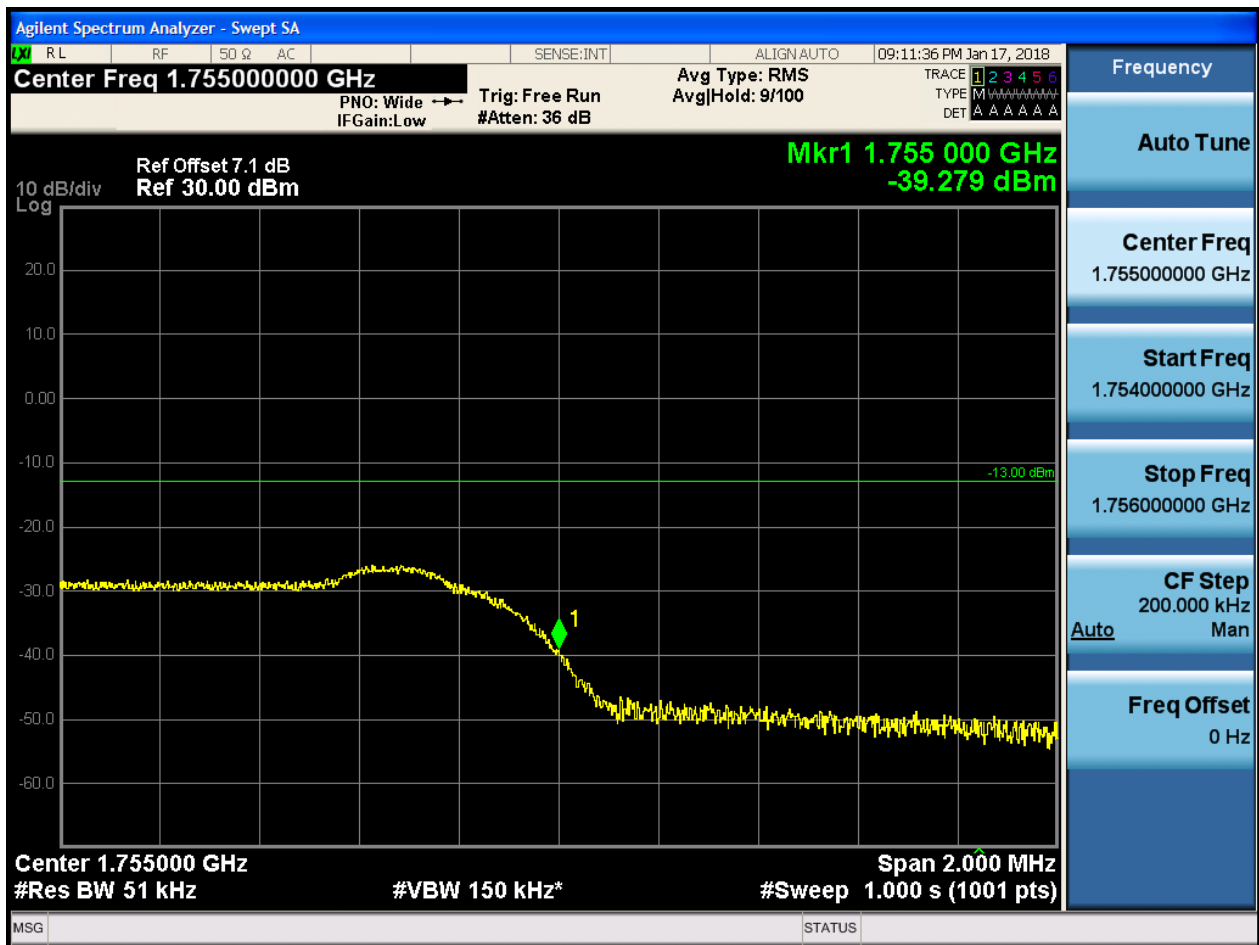
Freq Offset  
0 Hz

MSG STATUS



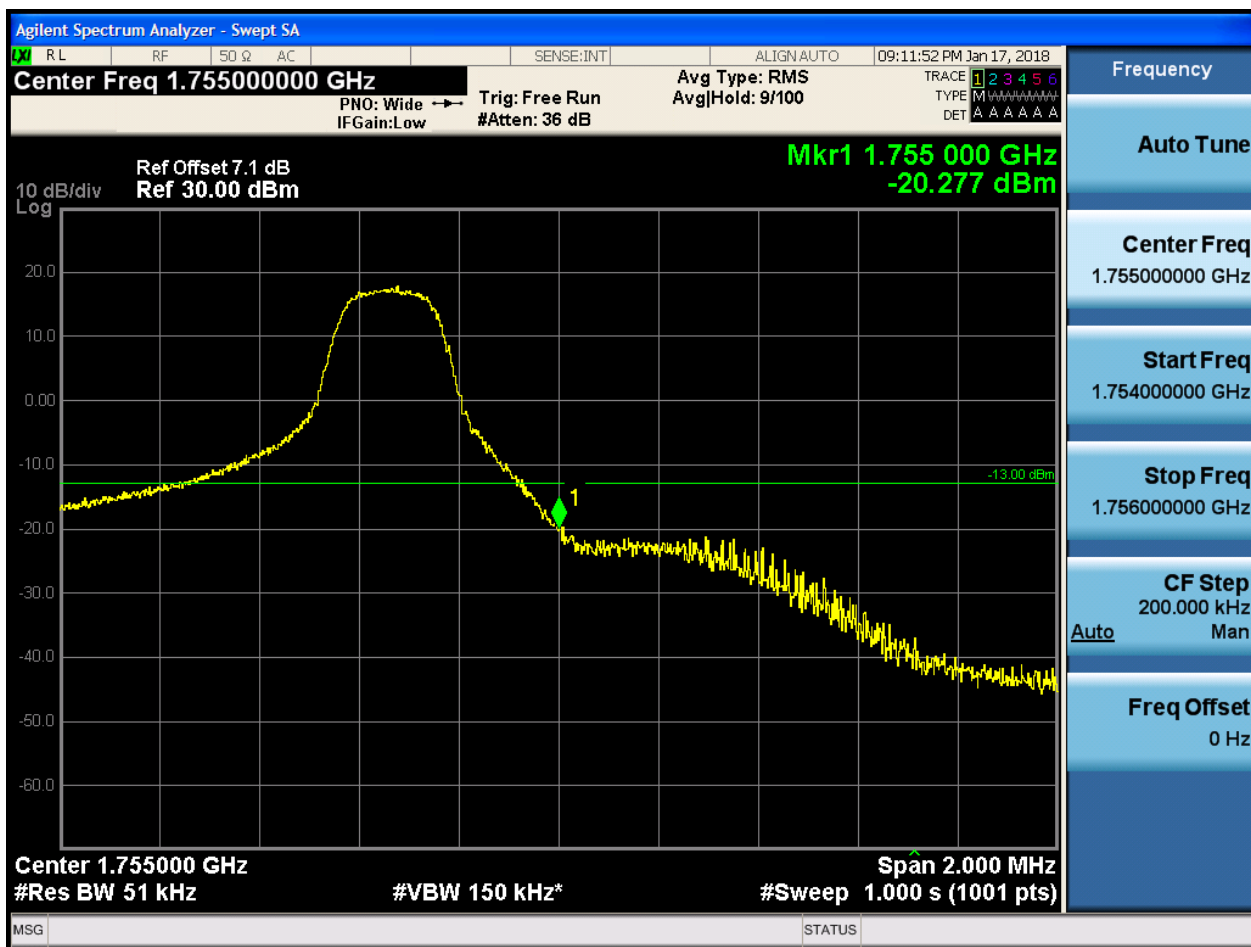
## 5.1.1.2.3.2 Test Channel = HCH

## 5.1.1.2.3.2.1 Test RB = RB1#0





## 5.1.1.2.3.2.2 Test RB = RB1#24





Agilent Spectrum Analyzer - Swept SA

Center Freq 1.755000000 GHz

Ref Offset 7.1 dB  
Ref 30.00 dBm

10 dB/div  
Log

Mkr1 1.755 020 GHz  
-33.010 dBm

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

Span 2.000 MHz  
#Sweep 1.000 s (1001 pts)

Auto Tune

Center Freq  
1.755000000 GHz

Start Freq  
1.754000000 GHz

Stop Freq  
1.756000000 GHz

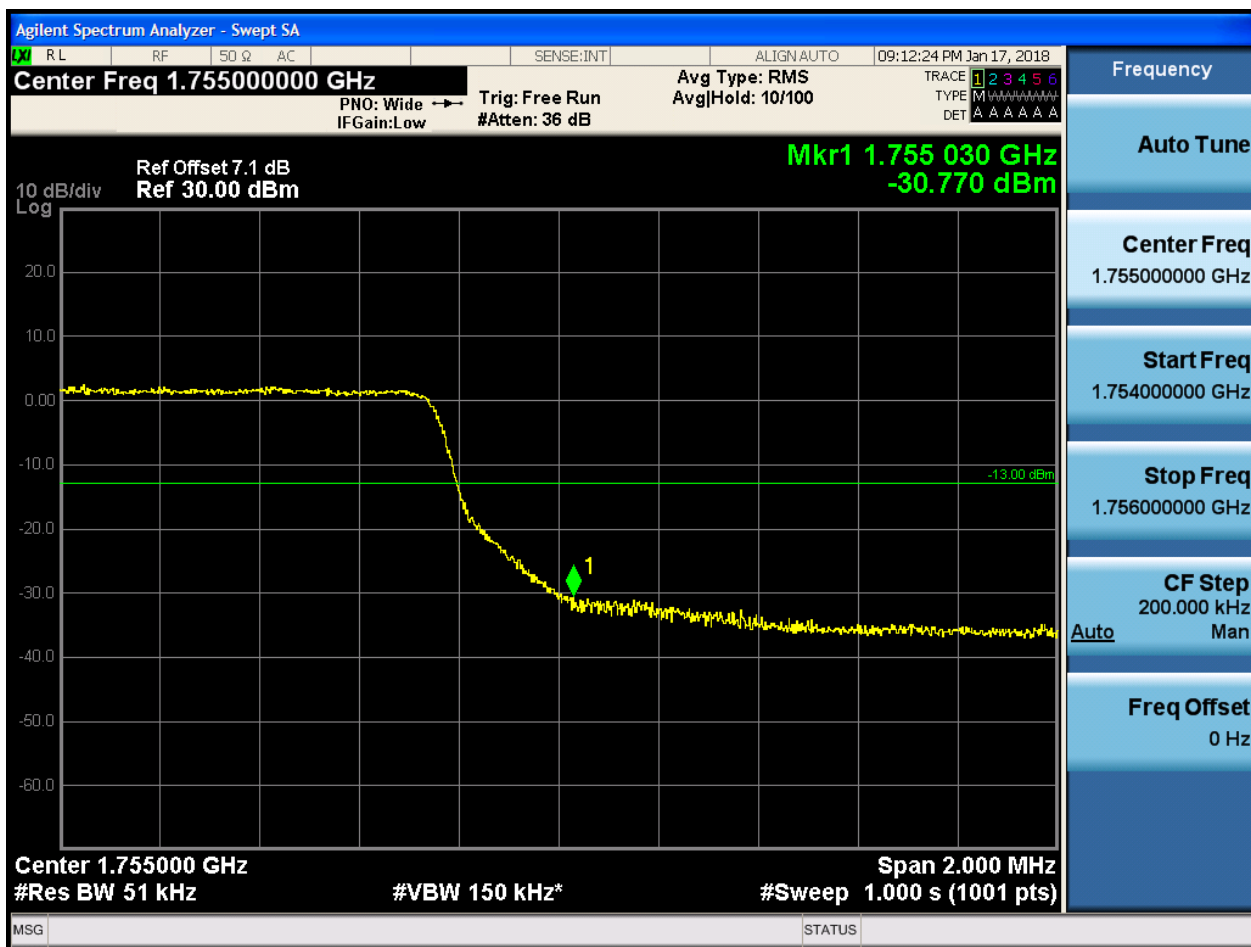
CF Step  
200.000 kHz  
Auto

Freq Offset  
0 Hz

| Frequency                      |
|--------------------------------|
| Auto Tune                      |
| Center Freq<br>1.755000000 GHz |
| Start Freq<br>1.754000000 GHz  |
| Stop Freq<br>1.756000000 GHz   |
| CF Step<br>200.000 kHz<br>Auto |
| Freq Offset<br>0 Hz            |



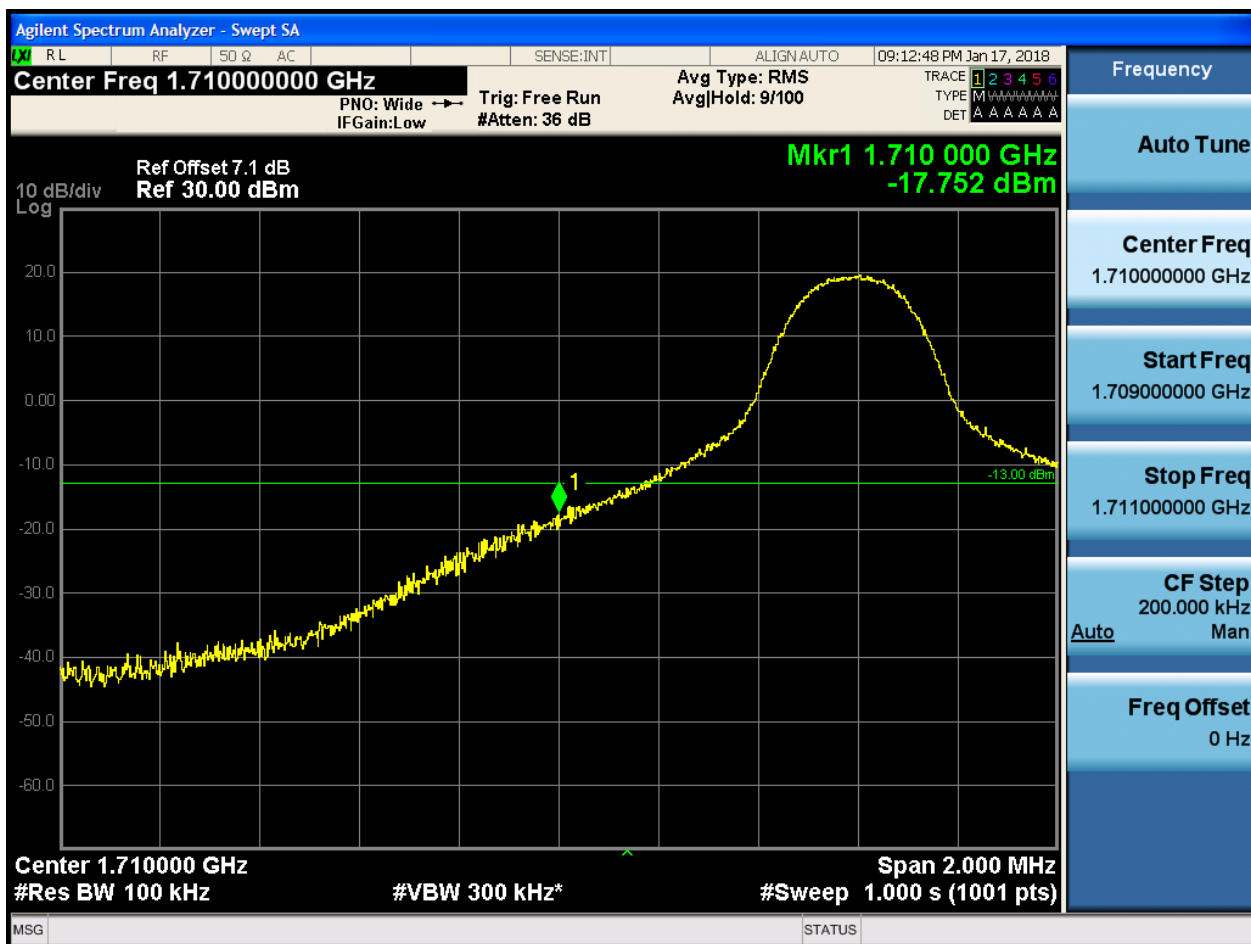
## 5.1.1.2.3.2.4 Test RB = RB25#0



#### 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





Agilent Spectrum Analyzer - Swept SA

Center Freq 1.710000000 GHz

Ref Offset 7.1 dB  
Ref 30.00 dBm

10 dB/div  
Log

Mkr1 1.709 980 GHz  
-40.457 dBm

Trig: Free Run  
#Atten: 36 dB

Avg Type: RMS  
Avg/Hold: 9/100

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

Frequency

Auto Tune

Center Freq  
1.710000000 GHz

Start Freq  
1.709000000 GHz

Stop Freq  
1.711000000 GHz

CF Step  
200.000 kHz  
Auto Man

Freq Offset  
0 Hz

Center 1.710000 GHz  
#Res BW 100 kHz  
#VBW 300 kHz\*  
Span 2.000 MHz  
#Sweep 1.000 s (1001 pts)