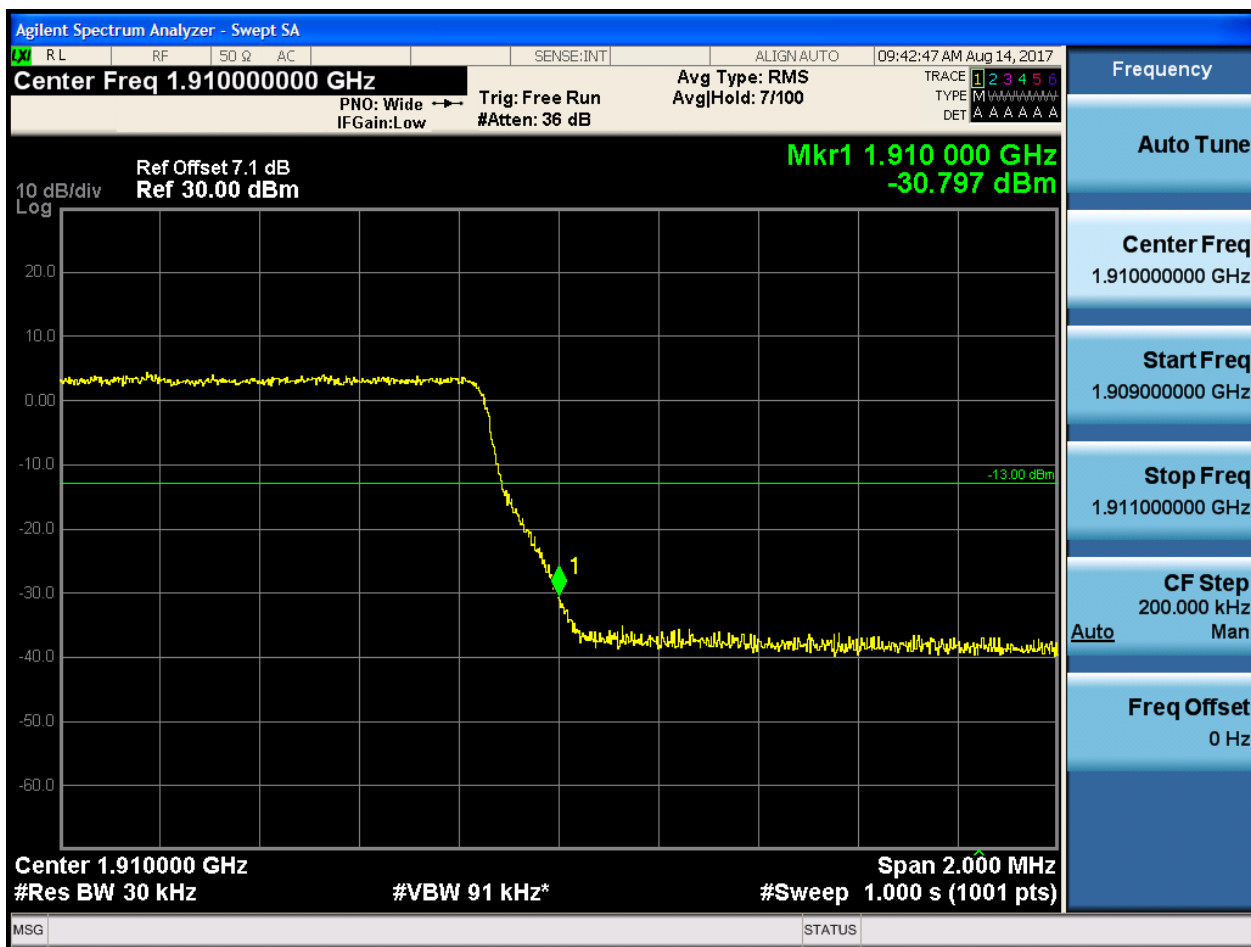




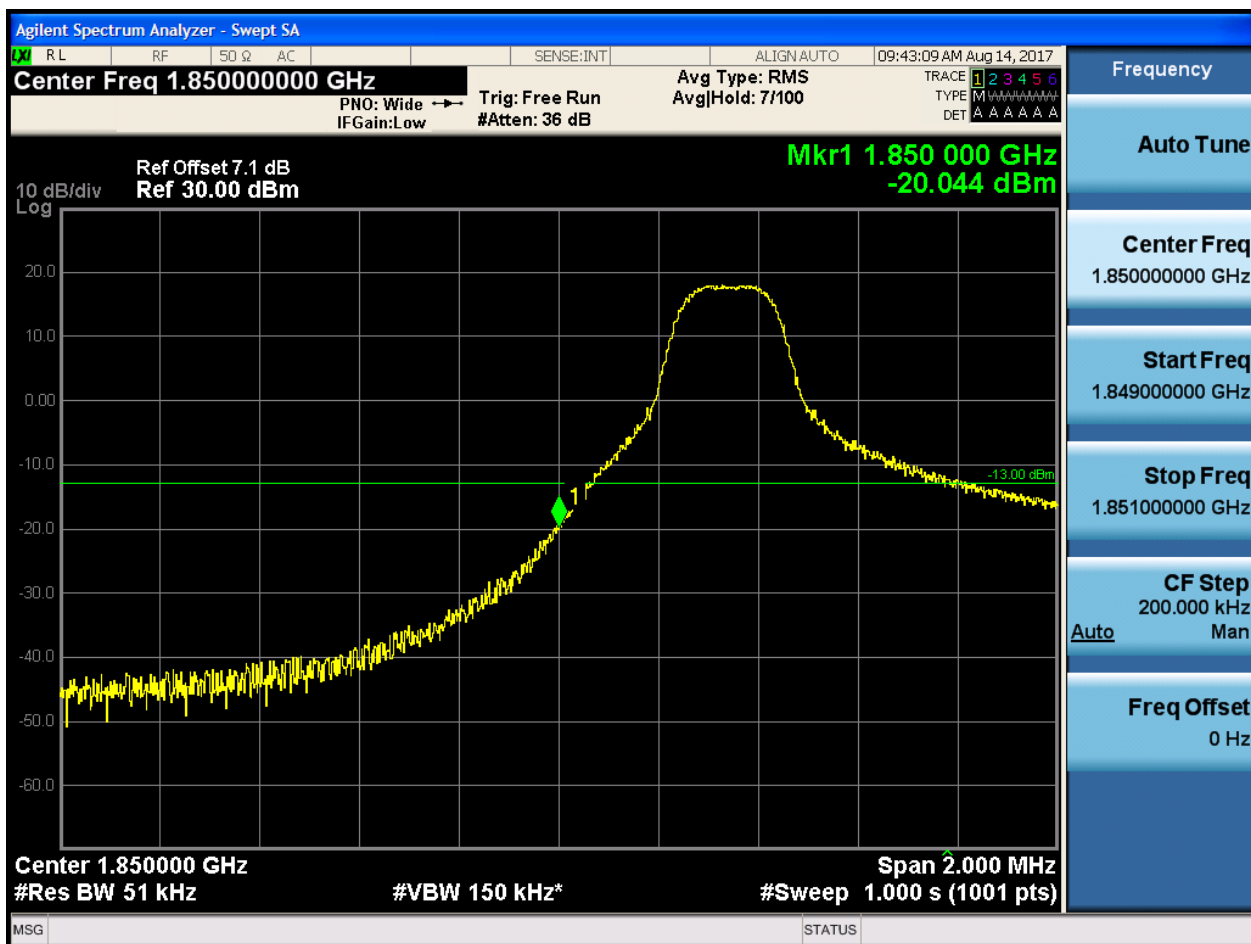
## 5.1.1.2.2.4 Test RB = RB15#0



### 5.1.1.2.3 Test Bandwidth = 5

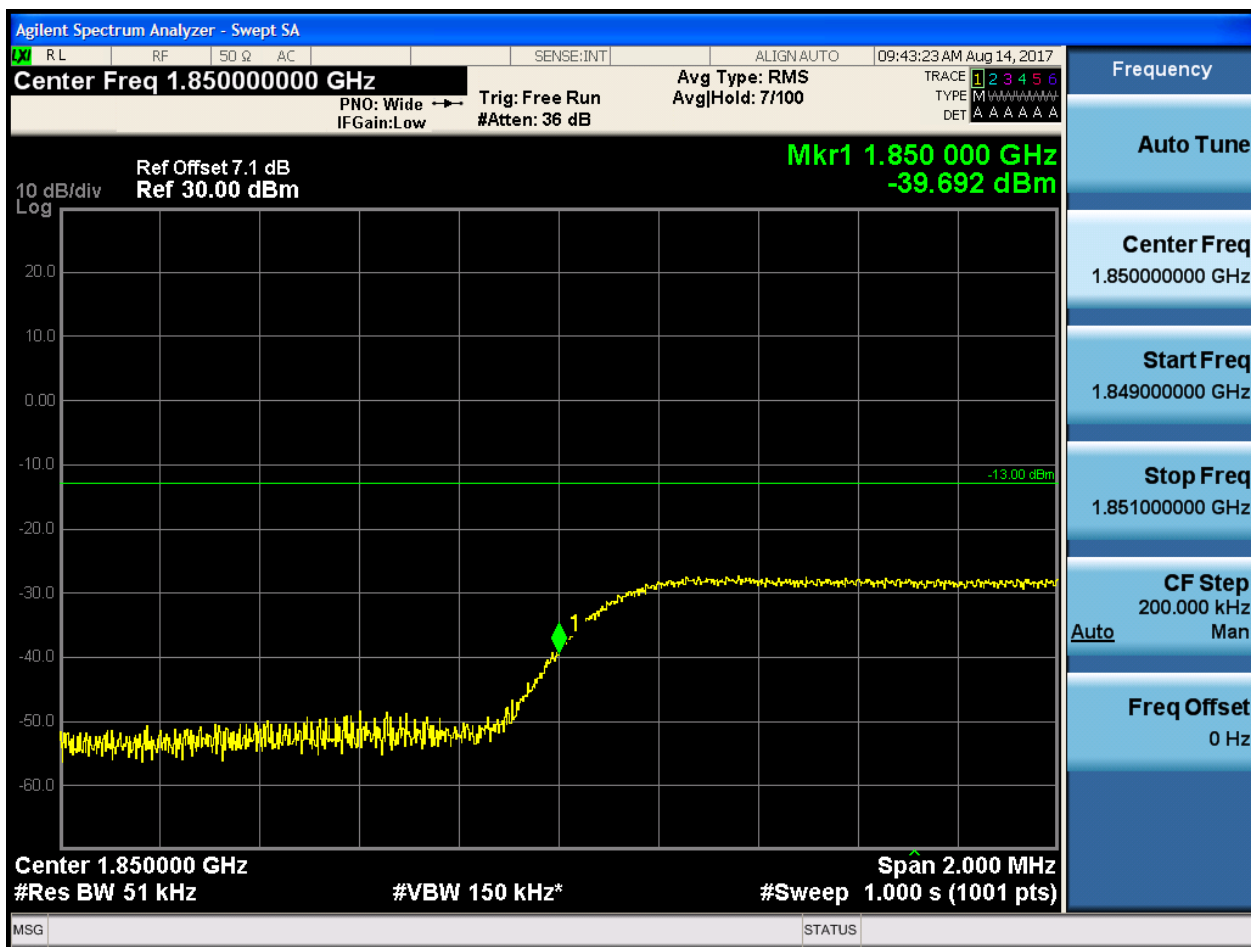
#### 5.1.1.2.3.1 Test Channel = LCH

##### 5.1.1.2.3.1.1 Test RB = RB1#0





## 5.1.1.2.3.1.2 Test RB = RB1#24



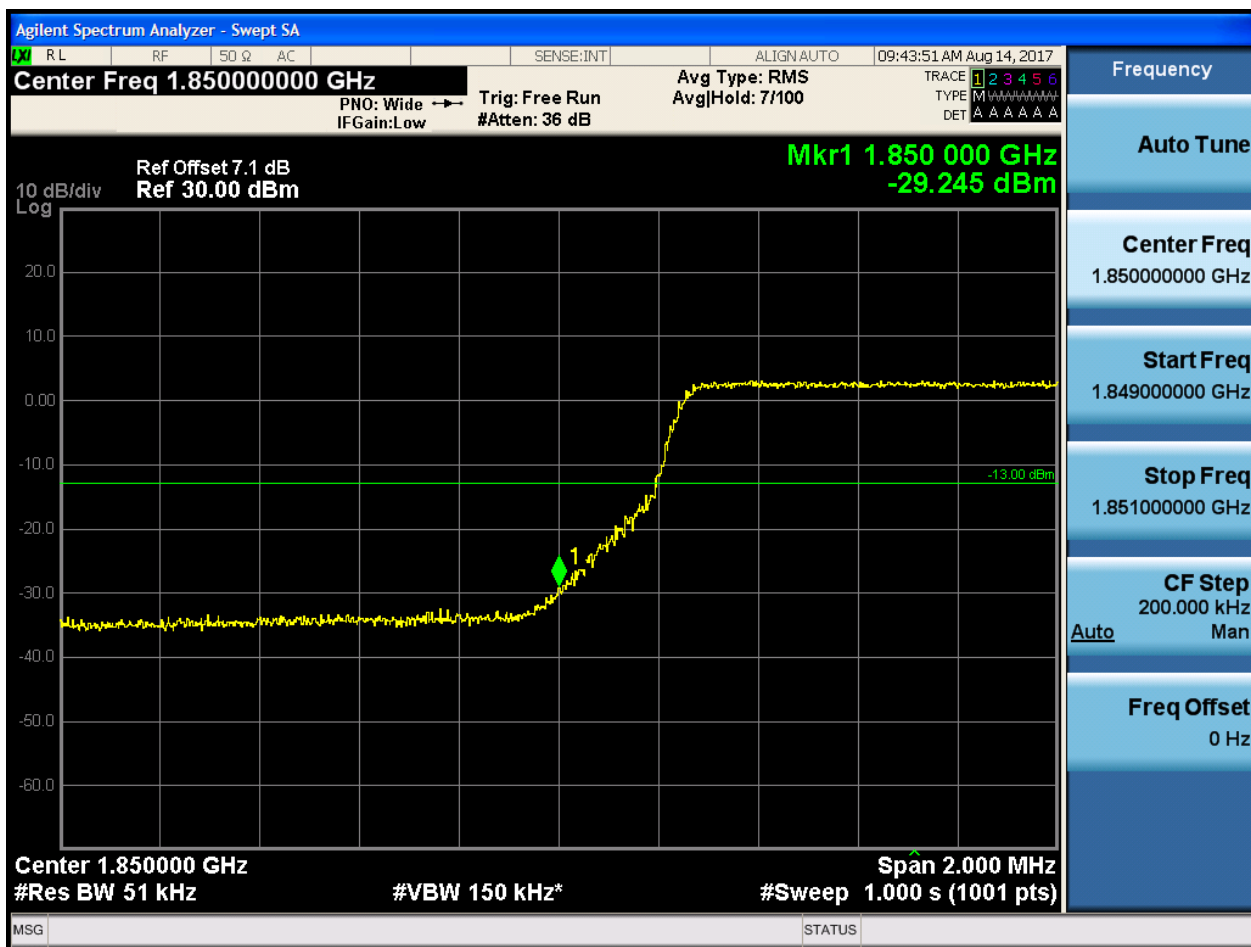


## 5.1.1.2.3.1.3 Test RB = RB12#6





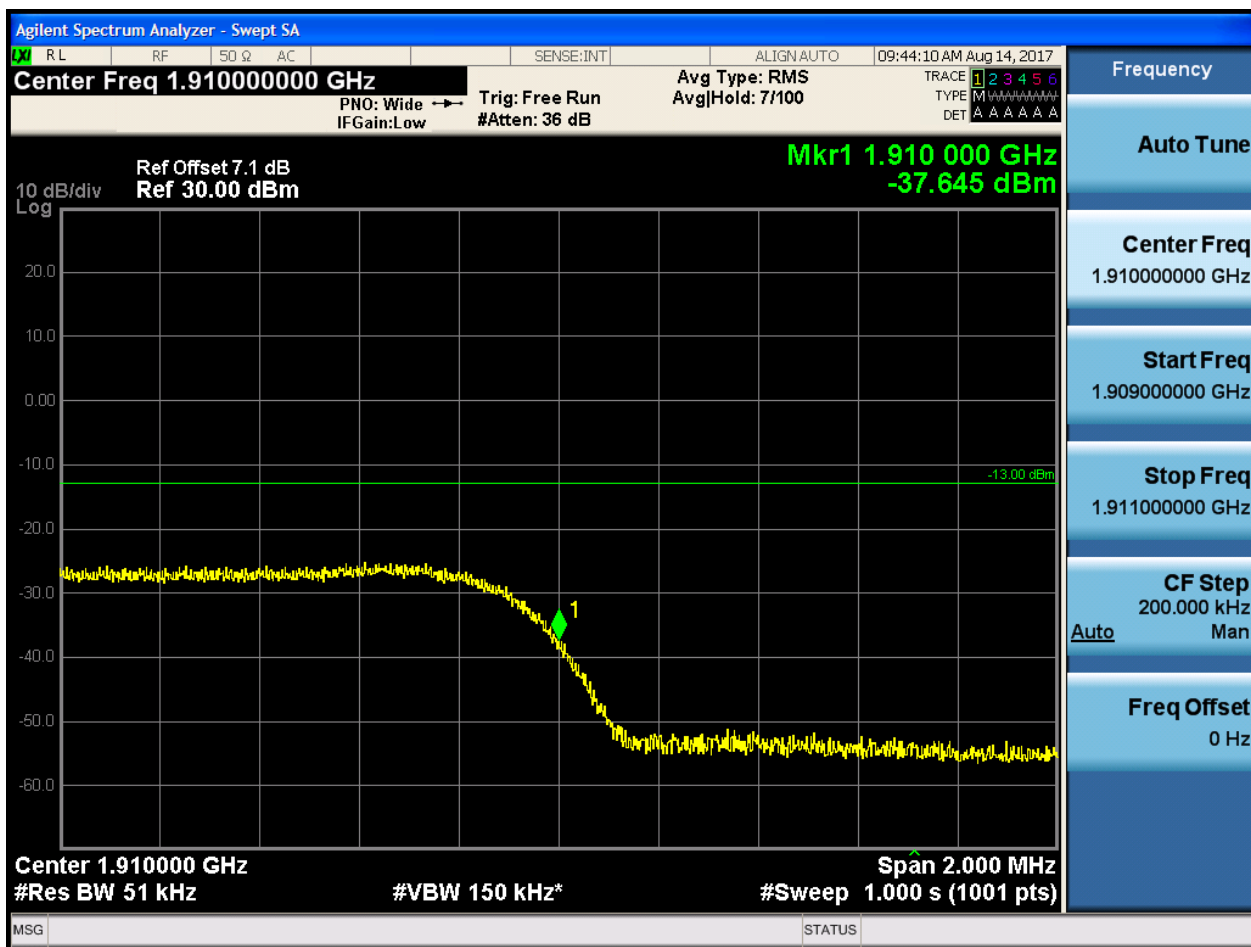
## 5.1.1.2.3.1.4 Test RB = RB25#0





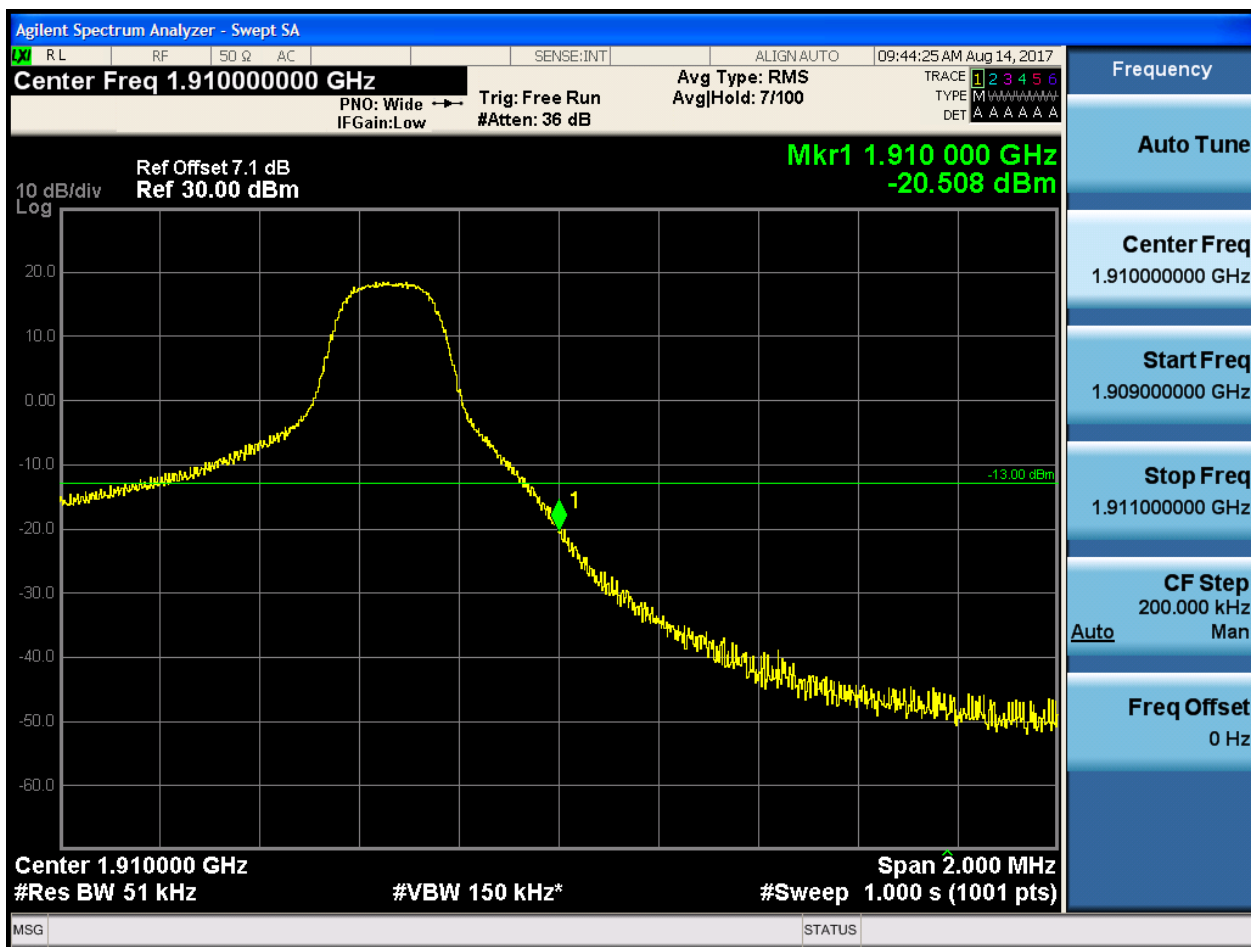
## 5.1.1.2.3.2 Test Channel = HCH

## 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





Agilent Spectrum Analyzer - Swept SA

RL RF 50  $\Omega$  AC SENSE:INT ALIGN AUTO 09:44:53 AM Aug 14, 2017

Center Freq 1.910000000 GHz Avg Type: RMS  
 PNO: Wide IFGain:Low Trig: Free Run AvgHold: 71/100  
 #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 1.910 000 GHz  
 -32.258 dBm

10 dB/div  
 Log

Center 1.910000 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  
 1.910000000 GHz

Start Freq  
 1.909000000 GHz

Stop Freq  
 1.911000000 GHz

CF Step  
 200.000 kHz  
 Auto Man

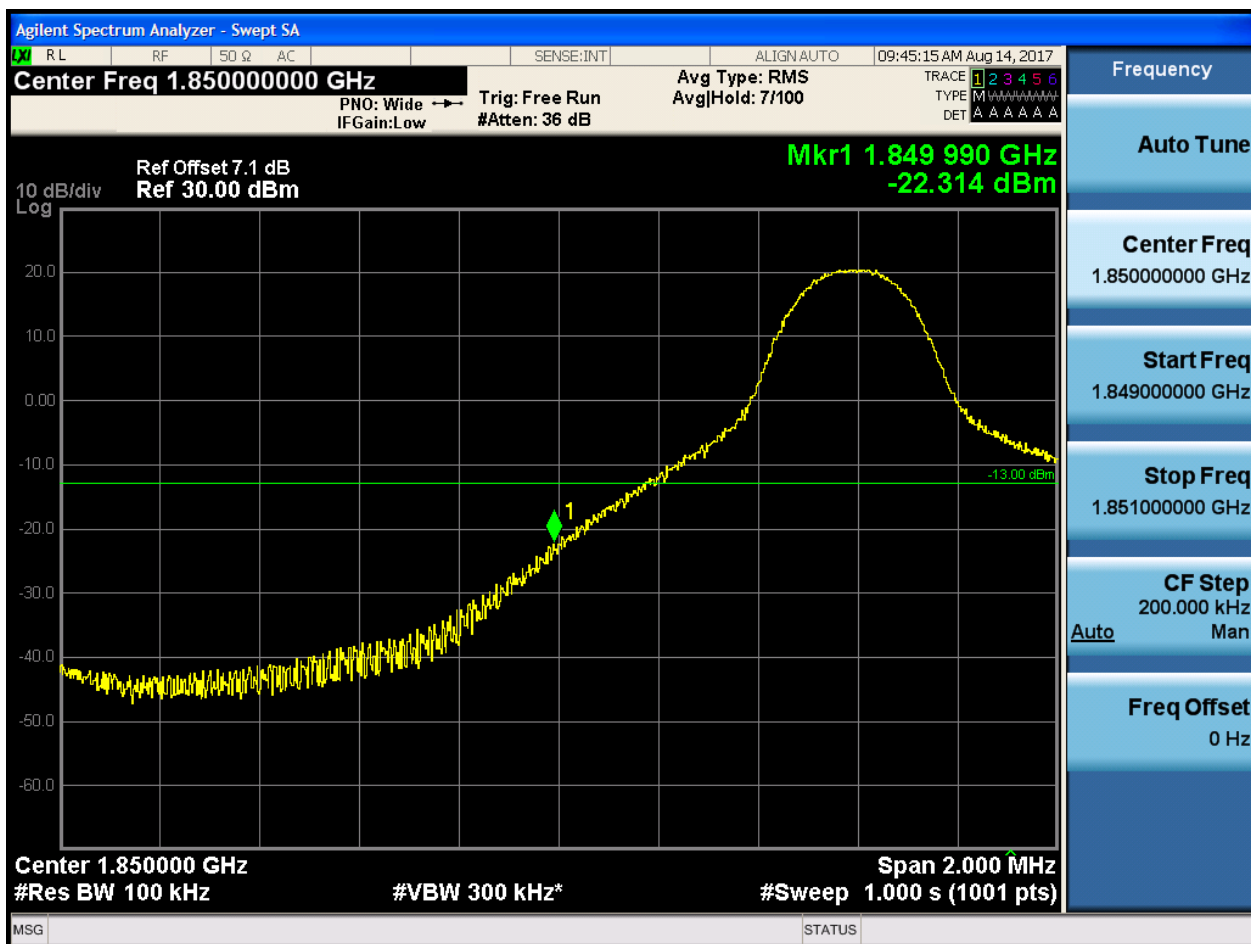
Freq Offset  
 0 Hz



## 5.1.1.2.4 Test Bandwidth = 10

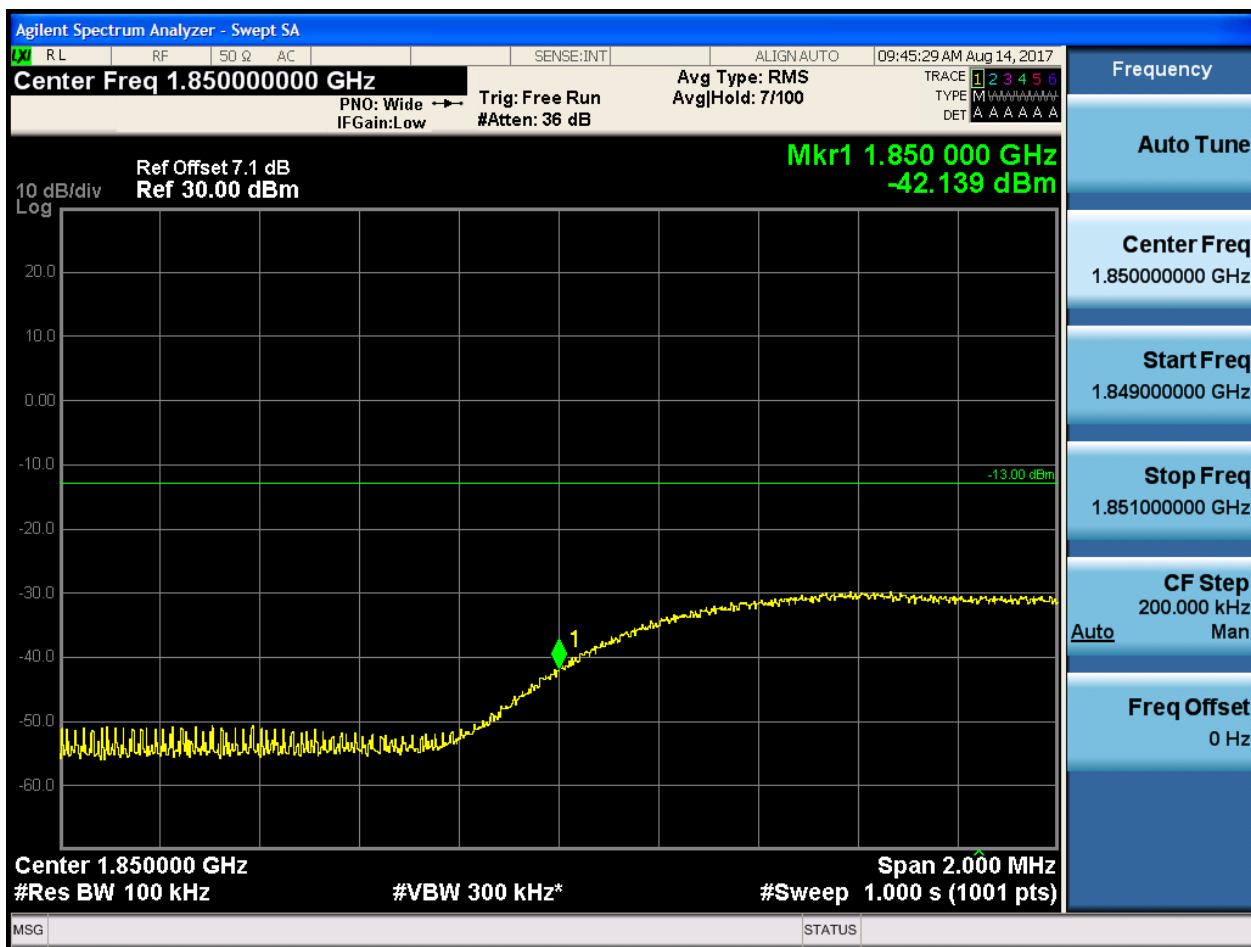
## 5.1.1.2.4.1 Test Channel = LCH

## 5.1.1.2.4.1.1 Test RB = RB1#0



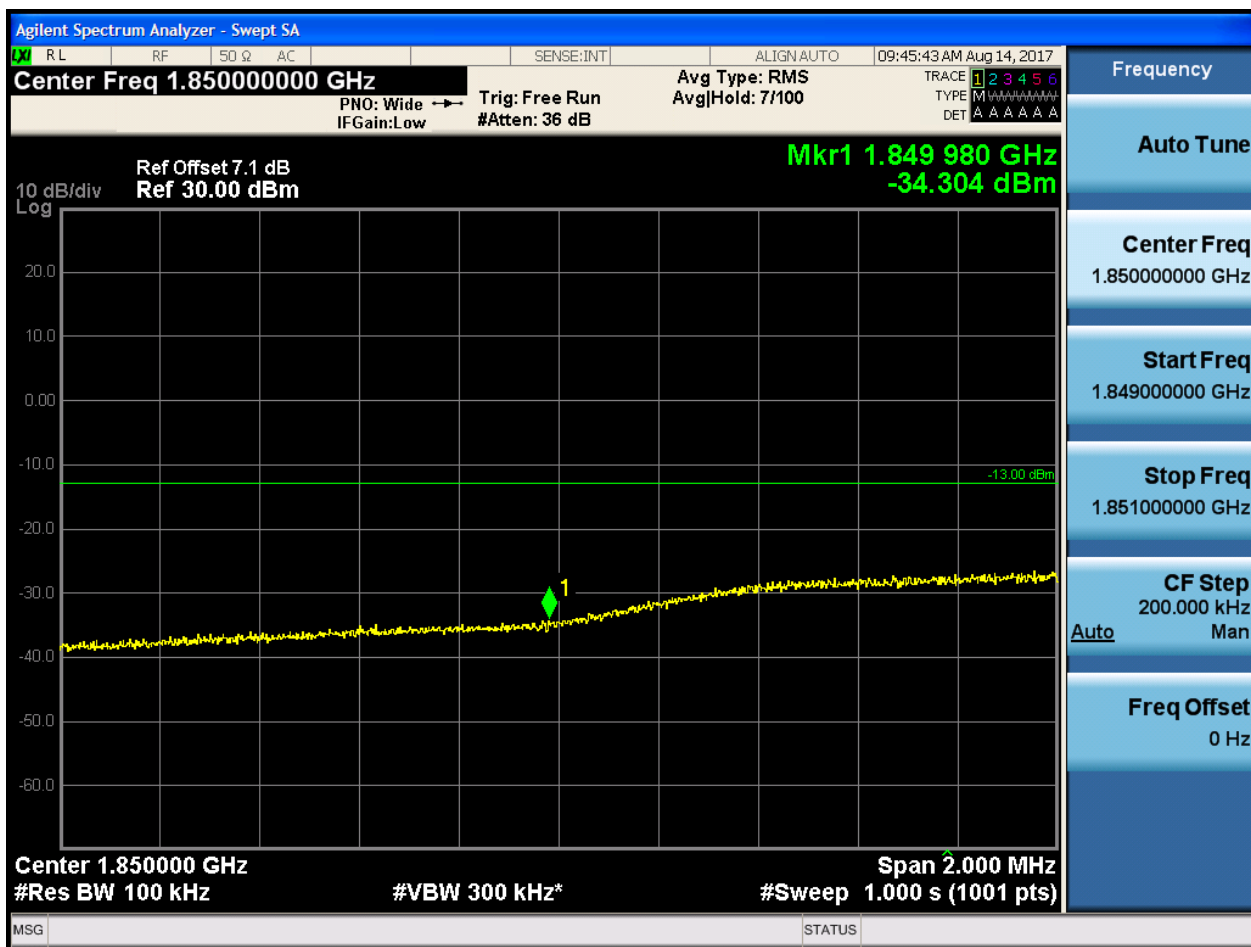


## 5.1.1.2.4.1.2 Test RB = RB1#49





## 5.1.1.2.4.1.3 Test RB = RB25#13





## 5.1.1.2.4.1.4 Test RB = RB50#0





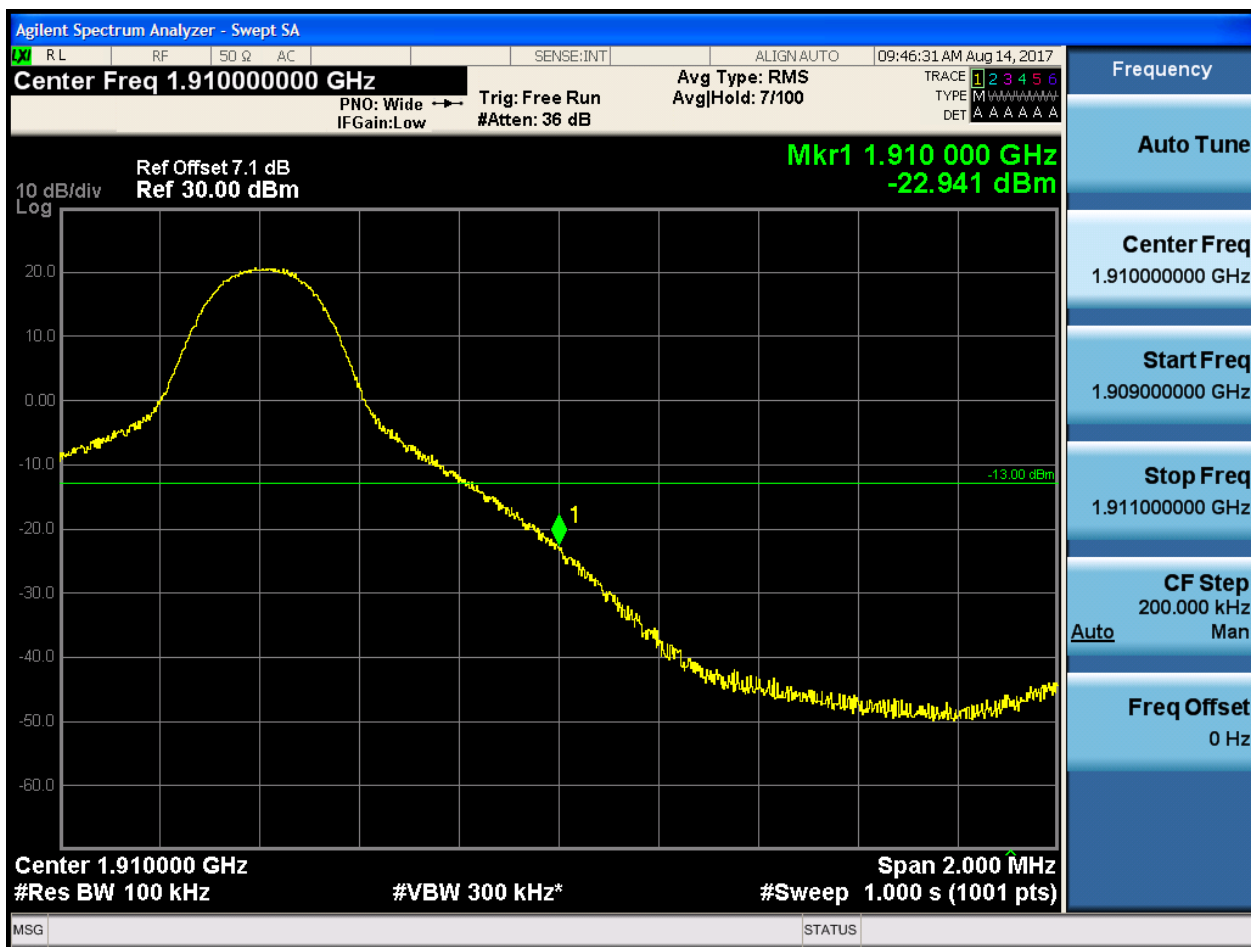
## 5.1.1.2.4.2 Test Channel = HCH

## 5.1.1.2.4.2.1 Test RB = RB1#0





## 5.1.1.2.4.2.2 Test RB = RB1#49





Agilent Spectrum Analyzer - Swept SA

RL RF 50  $\Omega$  AC SENSE:INT ALIGN AUTO 09:46:45 AM Aug 14, 2017

Center Freq 1.910000000 GHz Avg Type: RMS  
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 71/100  
#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 1.910 010 GHz  
-37.495 dBm

10 dB/div  
Log

-13.00 dBm

Center 1.910000 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  
1.910000000 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  $\Omega$  AC SENSE:INT ALIGN AUTO 09:46:59 AM Aug 14, 2017

Center Freq 1.910000000 GHz Avg Type: RMS  
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 71/100  
#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 1.910 010 GHz  
-34.979 dBm

10 dB/div  
Log

Center 1.910000 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  
1.910000000 GHz

Start Freq  
1.909000000 GHz

Stop Freq  
1.911000000 GHz

CF Step  
200.000 kHz  
Auto Man

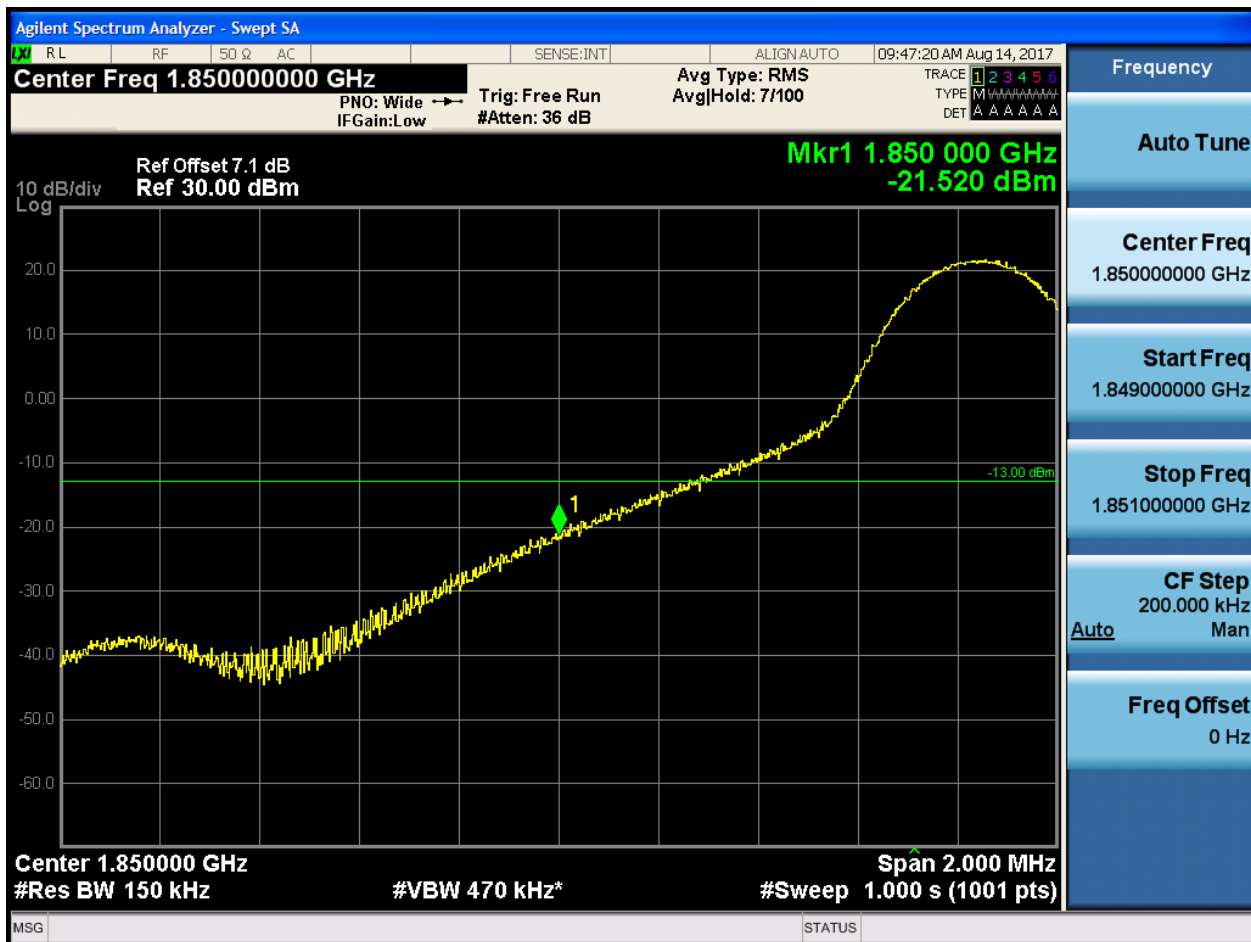
Freq Offset  
0 Hz



## 5.1.1.2.5 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





Agilent Spectrum Analyzer - Swept SA

Center Freq 1.850000000 GHz

Ref Offset 7.1 dB  
Ref 30.00 dBm

10 dB/div  
Log

Mkr1 1.850 000 GHz  
-35.644 dBm

Center 1.850000 GHz  
#Res BW 150 kHz  
#VBW 470 kHz\*

Span 2.000 MHz  
#Sweep 1.000 s (1001 pts)

Auto Tune

Center Freq  
1.850000000 GHz

Start Freq  
1.849000000 GHz

Stop Freq  
1.851000000 GHz

CF Step  
200.000 kHz  
Auto Man

Freq Offset  
0 Hz



## 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





Agilent Spectrum Analyzer - Swept SA

Center Freq 1.910000000 GHz

Ref Offset 7.1 dB  
Ref 30.00 dBm

10 dB/div  
Log

Mkr1 1.910 000 GHz  
-33.063 dBm

Center 1.910000 GHz  
#Res BW 150 kHz  
#VBW 470 kHz\*

Span 2.000 MHz  
#Sweep 1.000 s (1001 pts)

| Frequency                      |
|--------------------------------|
| Auto Tune                      |
| Center Freq<br>1.910000000 GHz |
| Start Freq<br>1.909000000 GHz  |
| Stop Freq<br>1.911000000 GHz   |
| CF Step<br>200.000 kHz<br>Auto |
| Freq Offset<br>0 Hz            |

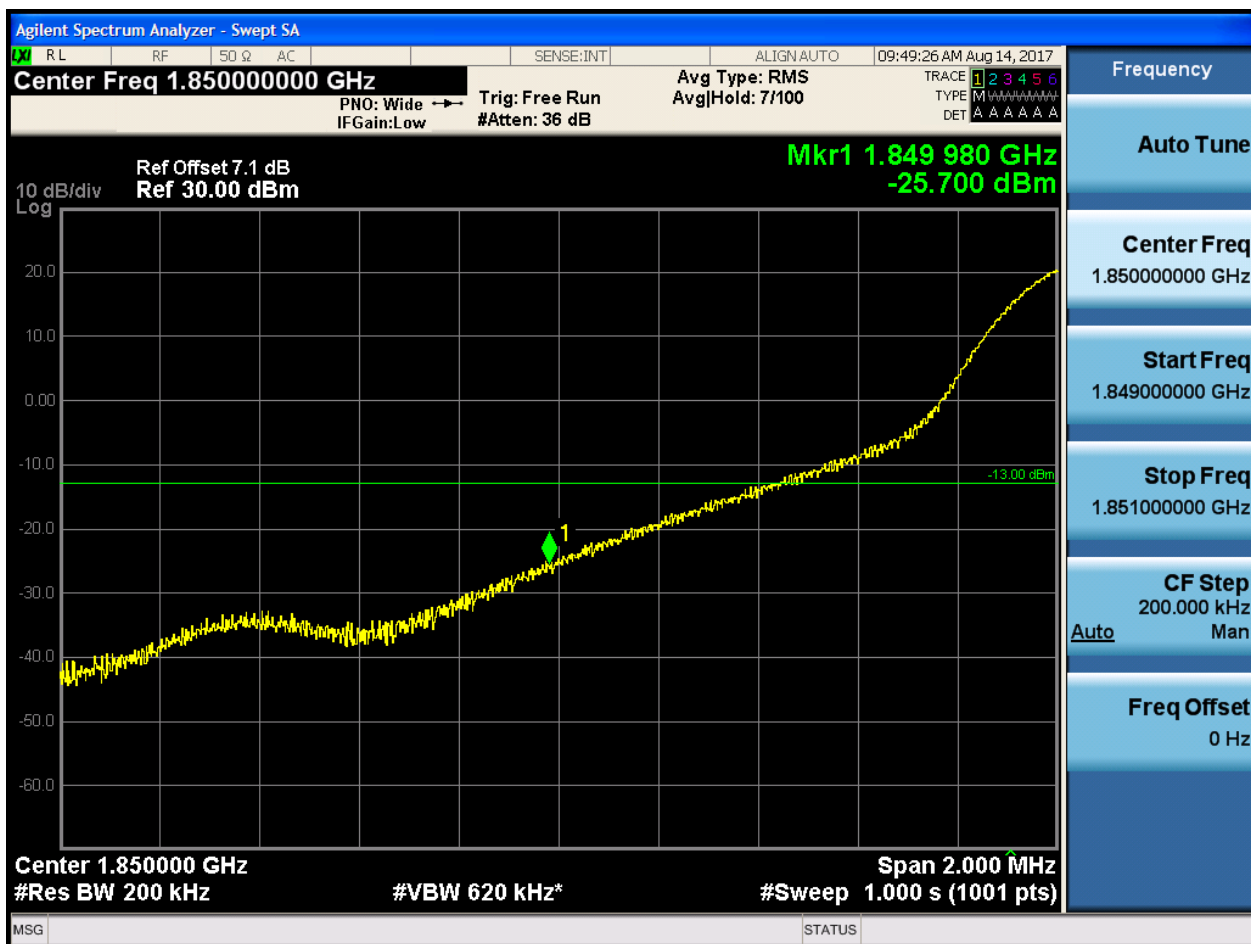
| MSG | STATUS |
|-----|--------|
|     |        |



## 5.1.1.2.6 Test Bandwidth = 20

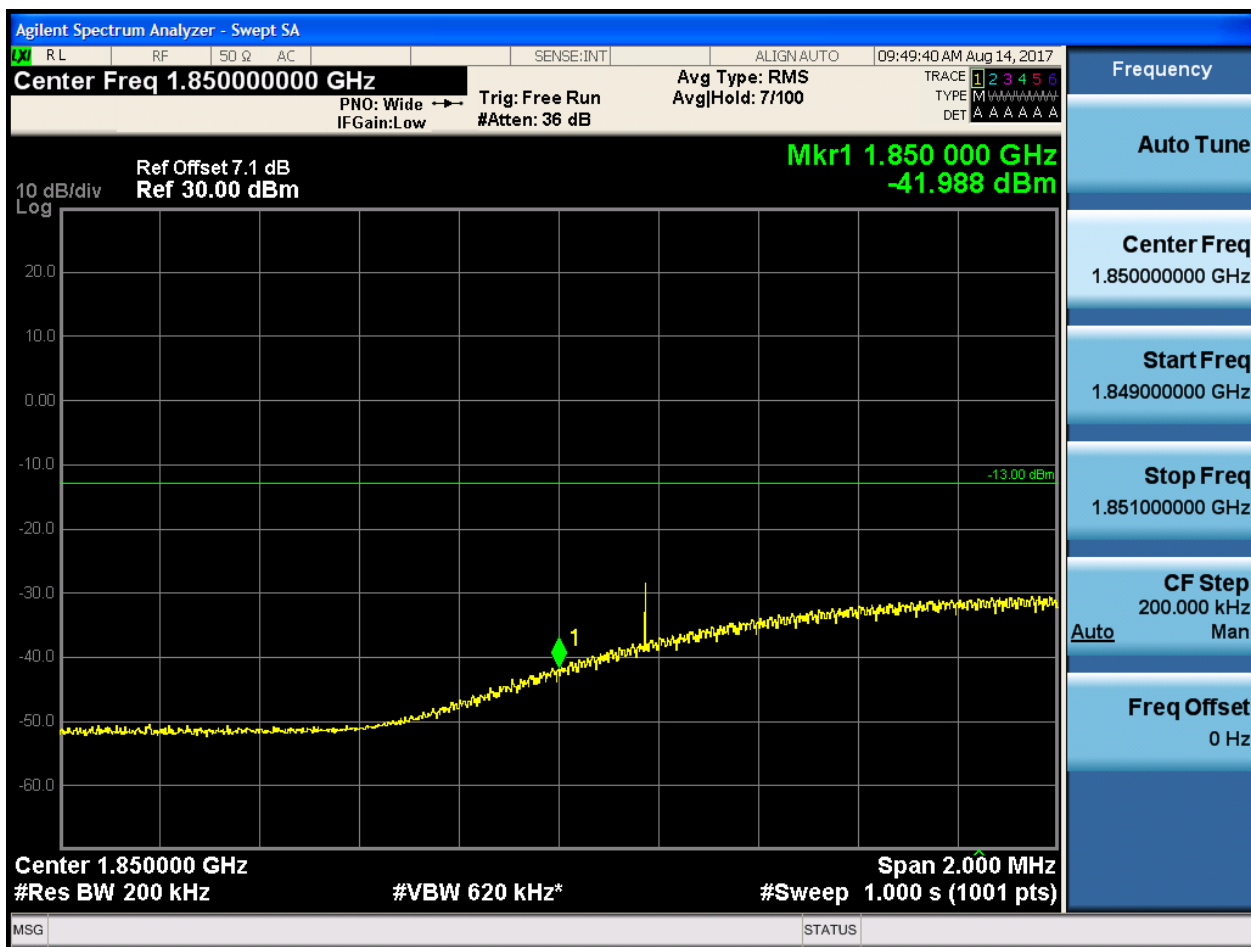
## 5.1.1.2.6.1 Test Channel = LCH

## 5.1.1.2.6.1.1 Test RB = RB1#0





## 5.1.1.2.6.1.2 Test RB = RB1#99





Agilent Spectrum Analyzer - Swept SA

RL RF 50  $\Omega$  AC SENSE:INT ALIGN AUTO 09:49:54 AM Aug 14, 2017

Center Freq 1.850000000 GHz Avg Type: RMS  
PNO: Wide → Trig: Free Run AvgHold: 7/100  
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 1.849 960 GHz  
-36.784 dBm

10 dB/div  
Log

-13.00 dBm

Center 1.850000 GHz Span 2.000 MHz  
#Res BW 200 kHz #VBW 620 kHz\* #Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq  
1.850000000 GHz

Start Freq  
1.849000000 GHz

Stop Freq  
1.851000000 GHz

CF Step  
200.000 kHz  
Auto Man

Freq Offset  
0 Hz



## 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





Agilent Spectrum Analyzer - Swept SA

RL RF 50  $\Omega$  AC SENSE:INT ALIGN AUTO 09:50:57 AM Aug 14, 2017

Center Freq 1.910000000 GHz Avg Type: RMS  
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 8/100  
#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 1.910 020 GHz  
-36.485 dBm

10 dB/div  
Log

Center 1.910000 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  
1.910000000 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  $\Omega$  AC SENSE:INT ALIGN AUTO 09:51:11 AM Aug 14, 2017

Center Freq 1.910000000 GHz Avg Type: RMS  
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 7100  
#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 1.910 020 GHz  
-34.073 dBm

10 dB/div  
Log

Center 1.910000 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  
1.910000000 GHz  
Start Freq  
1.909000000 GHz  
Stop Freq  
1.911000000 GHz  
CF Step  
200.000 kHz  
Auto Man  
Freq Offset  
0 Hz

## 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

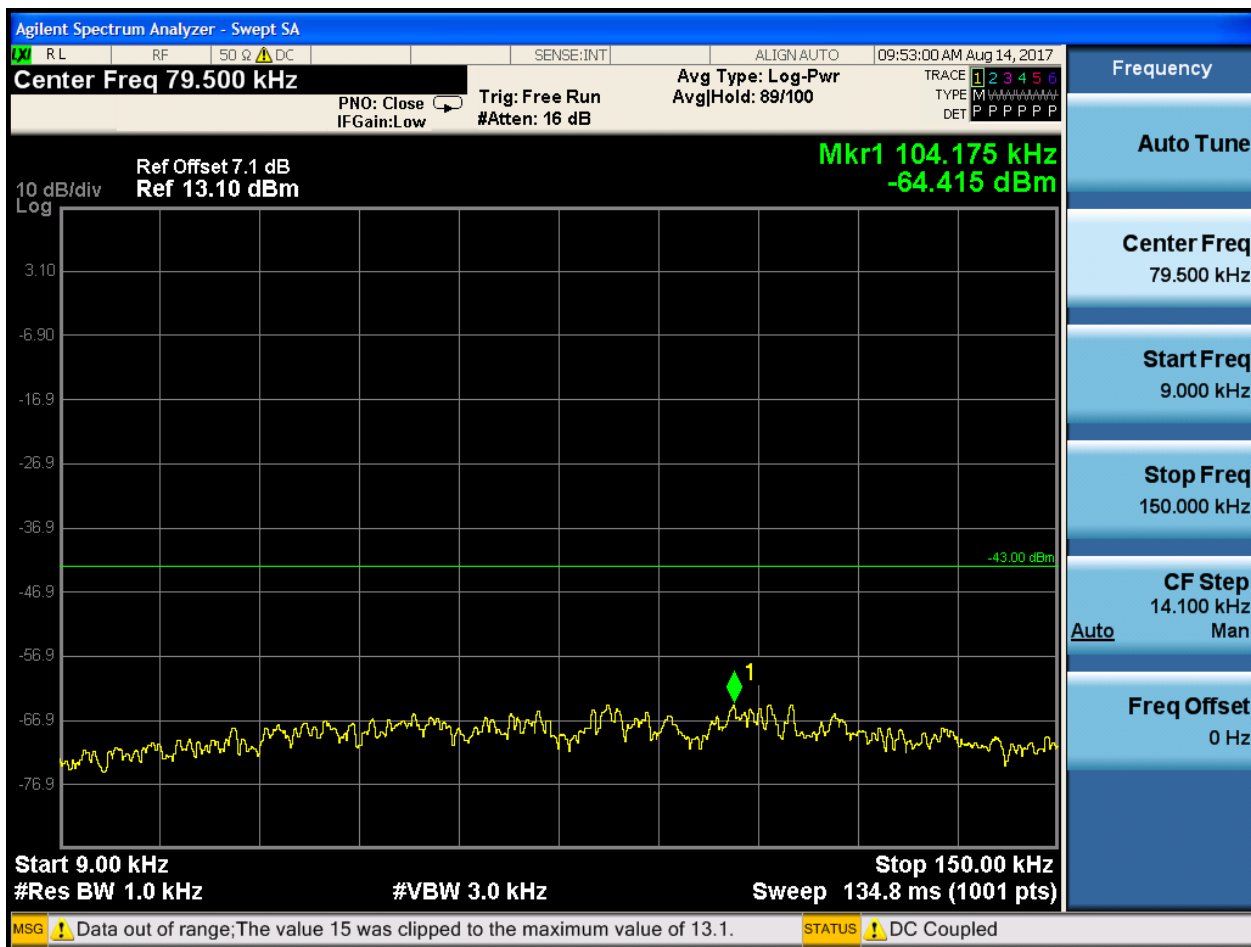
##### 6.1.1 Test Band = BAND2

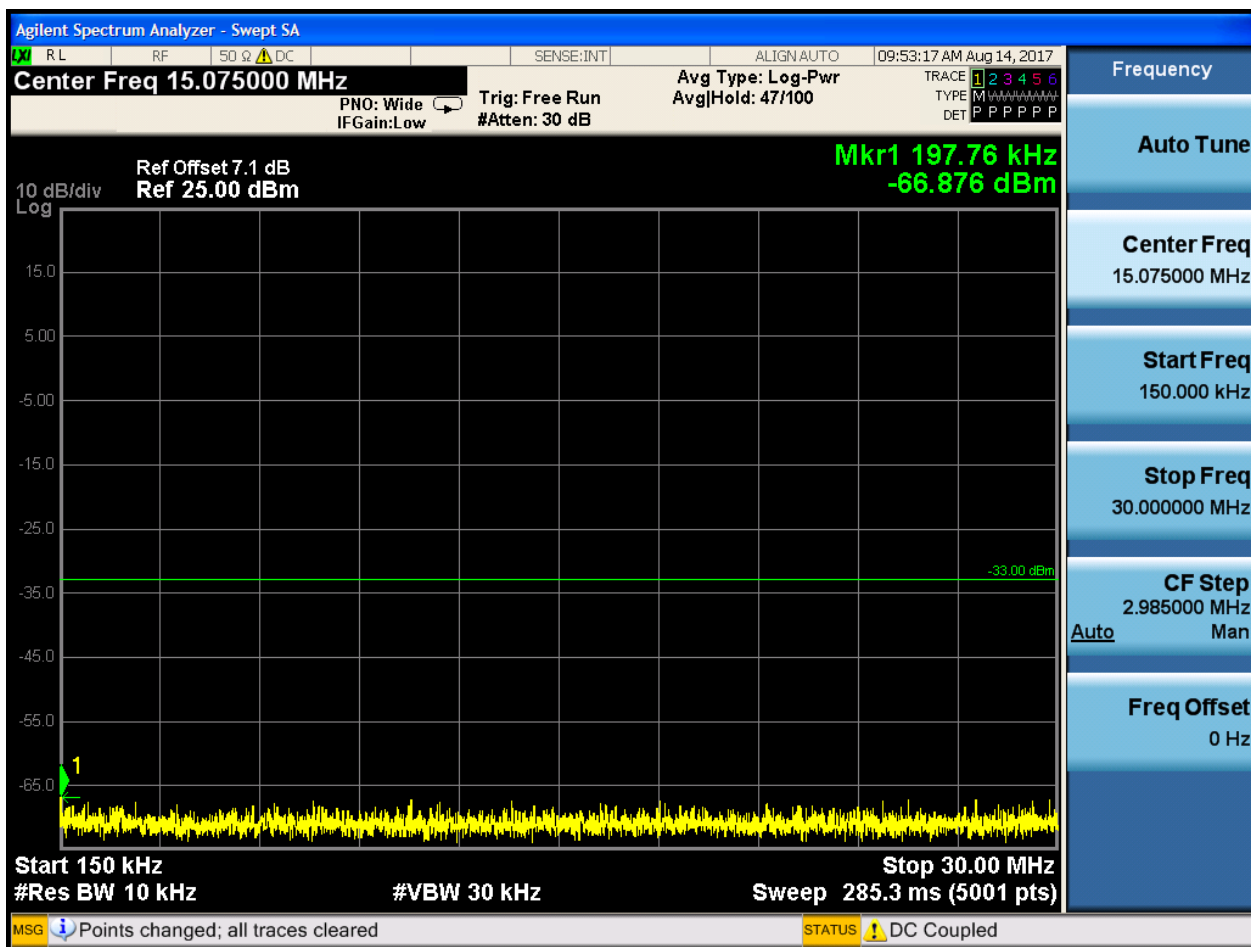
##### 6.1.1.1 Test Mode = LTE/TM1

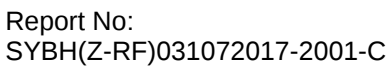
##### 6.1.1.1.1 Test Bandwidth = 1.4

##### 6.1.1.1.1.1 Test Channel = LCH

##### 6.1.1.1.1.1.1 Test RB = RB1#0

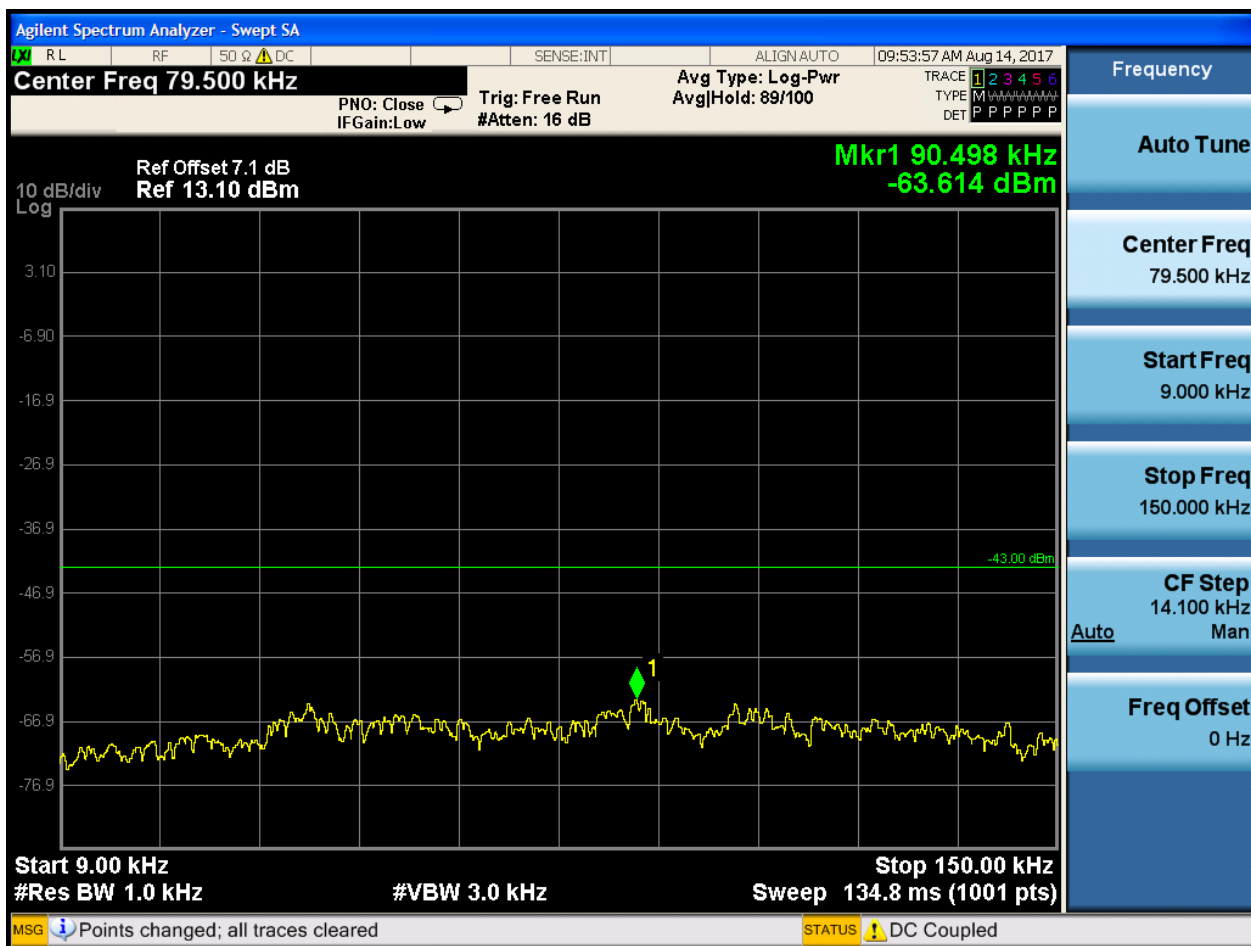


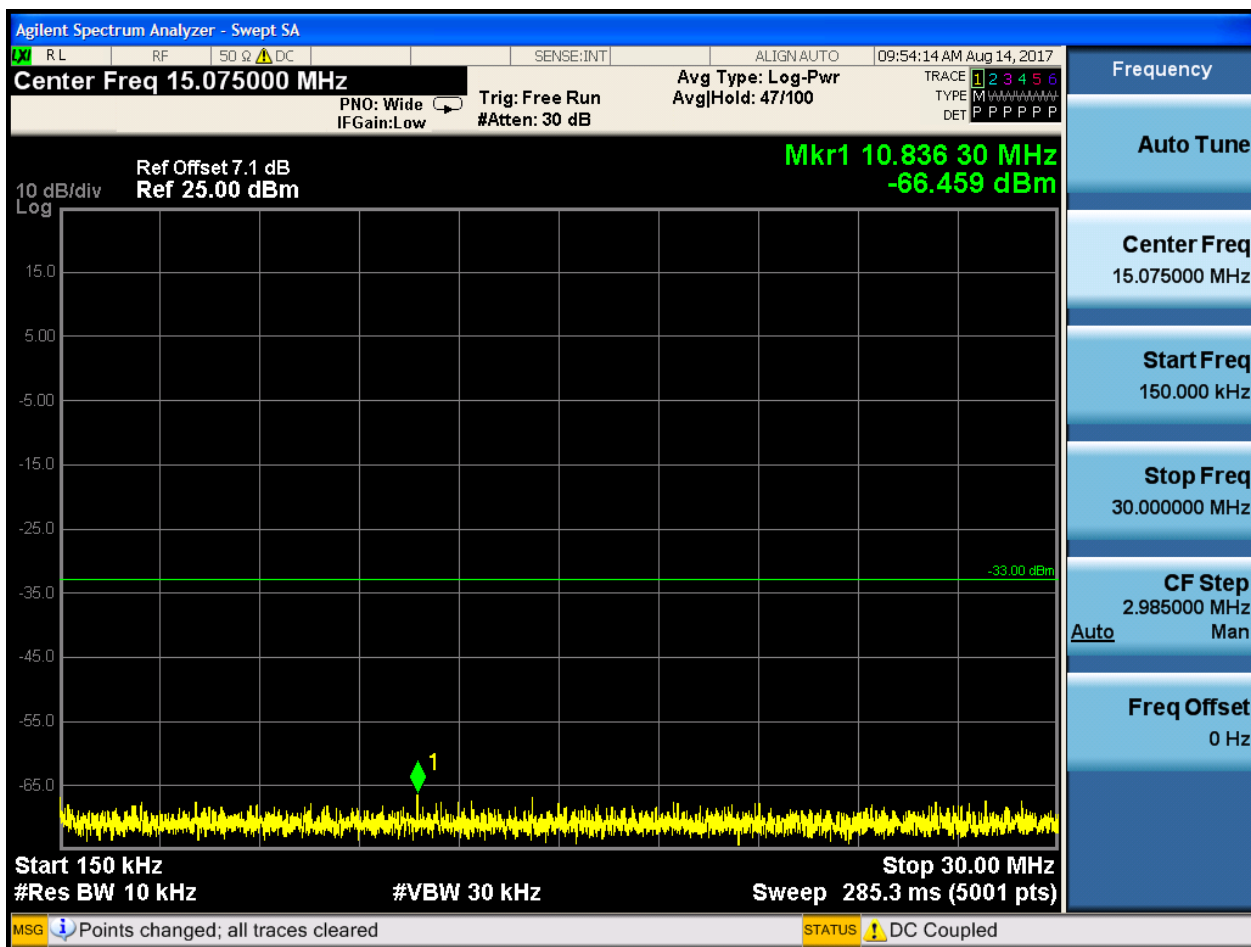


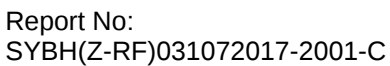


### 6.1.1.1.1.2 Test Channel = MCH

#### 6.1.1.1.1.2.1 Test RB = RB1#0

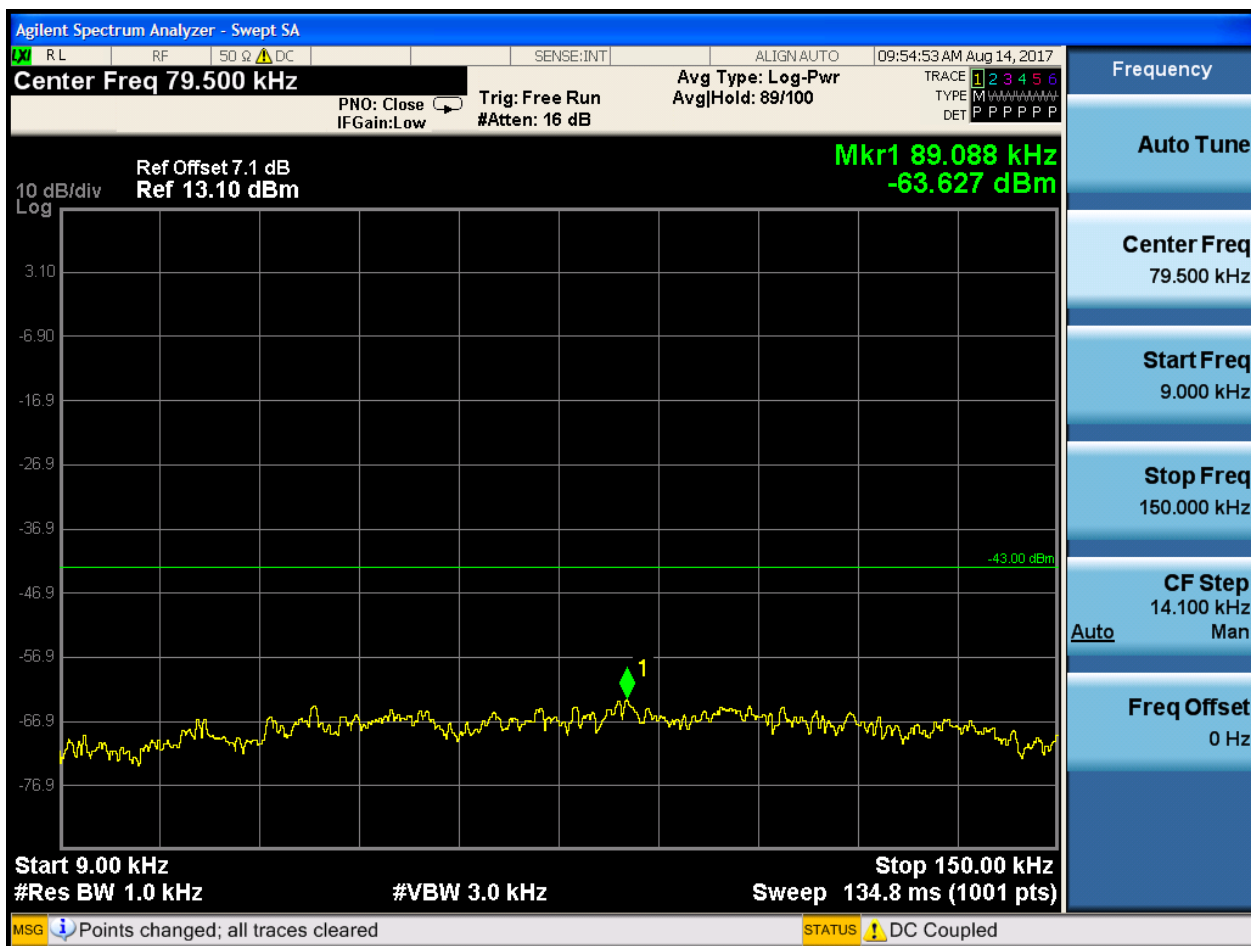


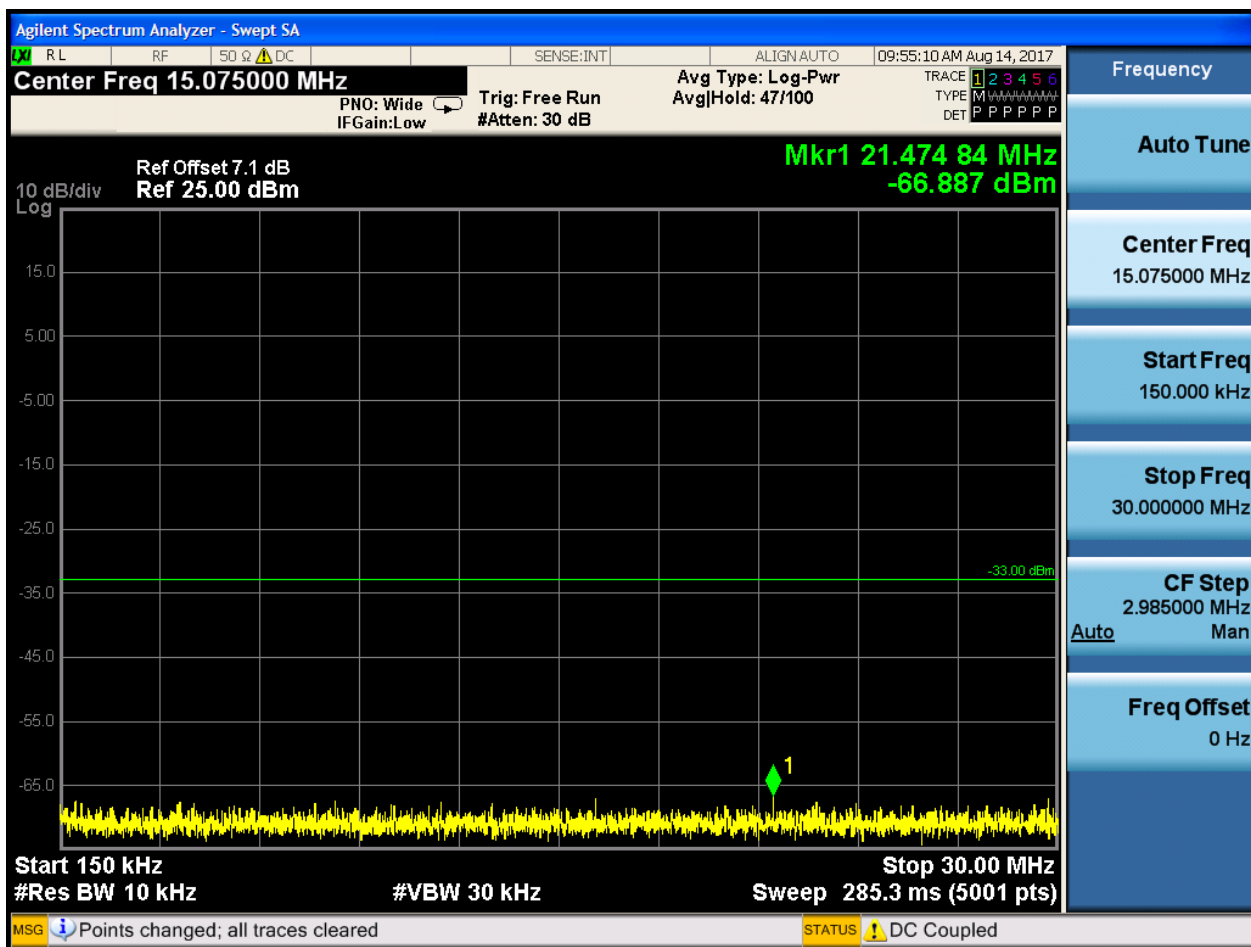


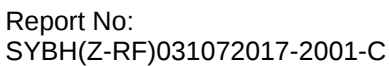


### 6.1.1.1.1.3 Test Channel = HCH

#### 6.1.1.1.1.3.1 Test RB = RB1#0



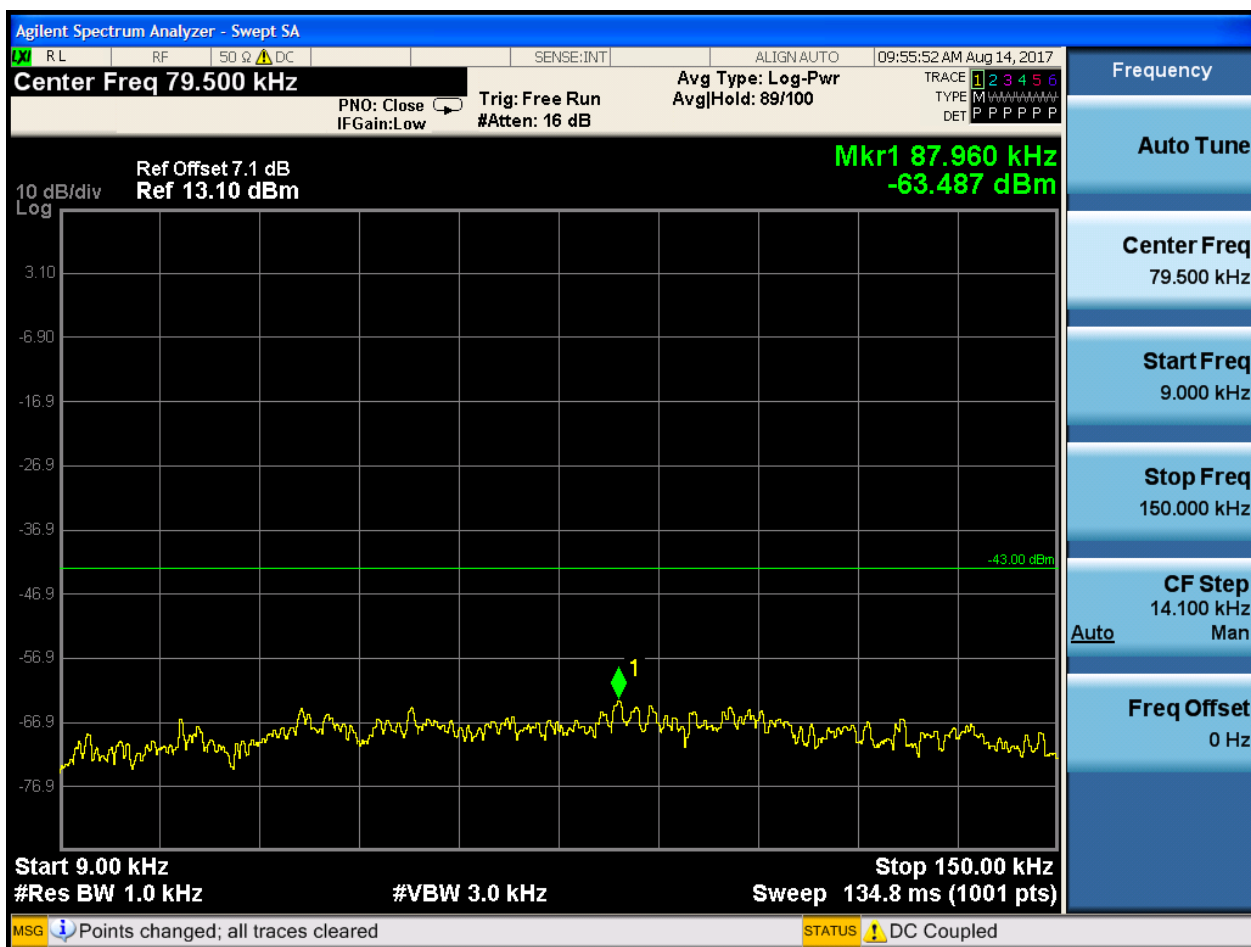


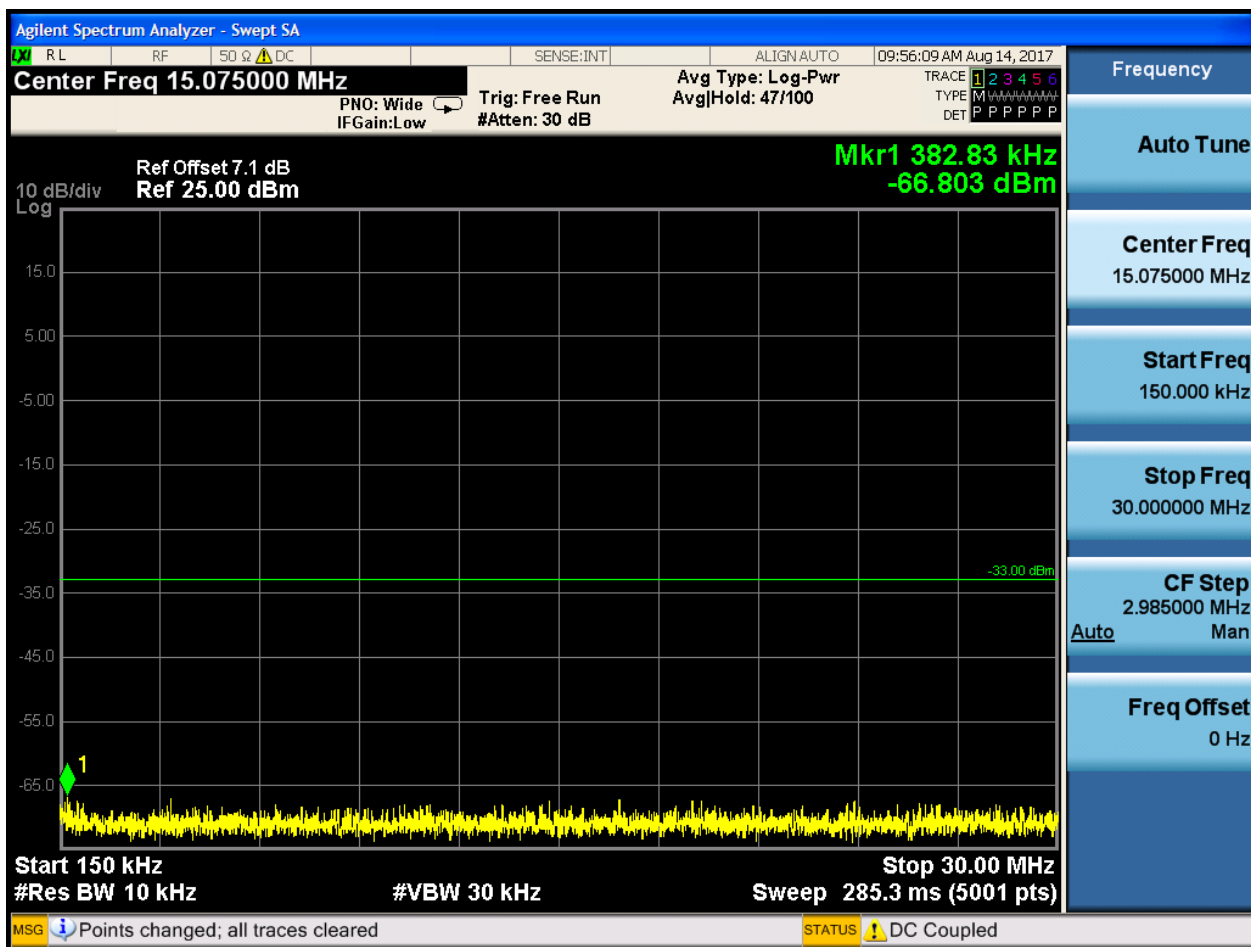


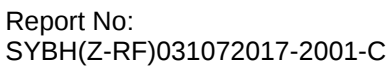
### 6.1.1.1.2 Test Bandwidth = 3

#### 6.1.1.1.2.1 Test Channel = LCH

##### 6.1.1.1.2.1.1 Test RB = RB1#0

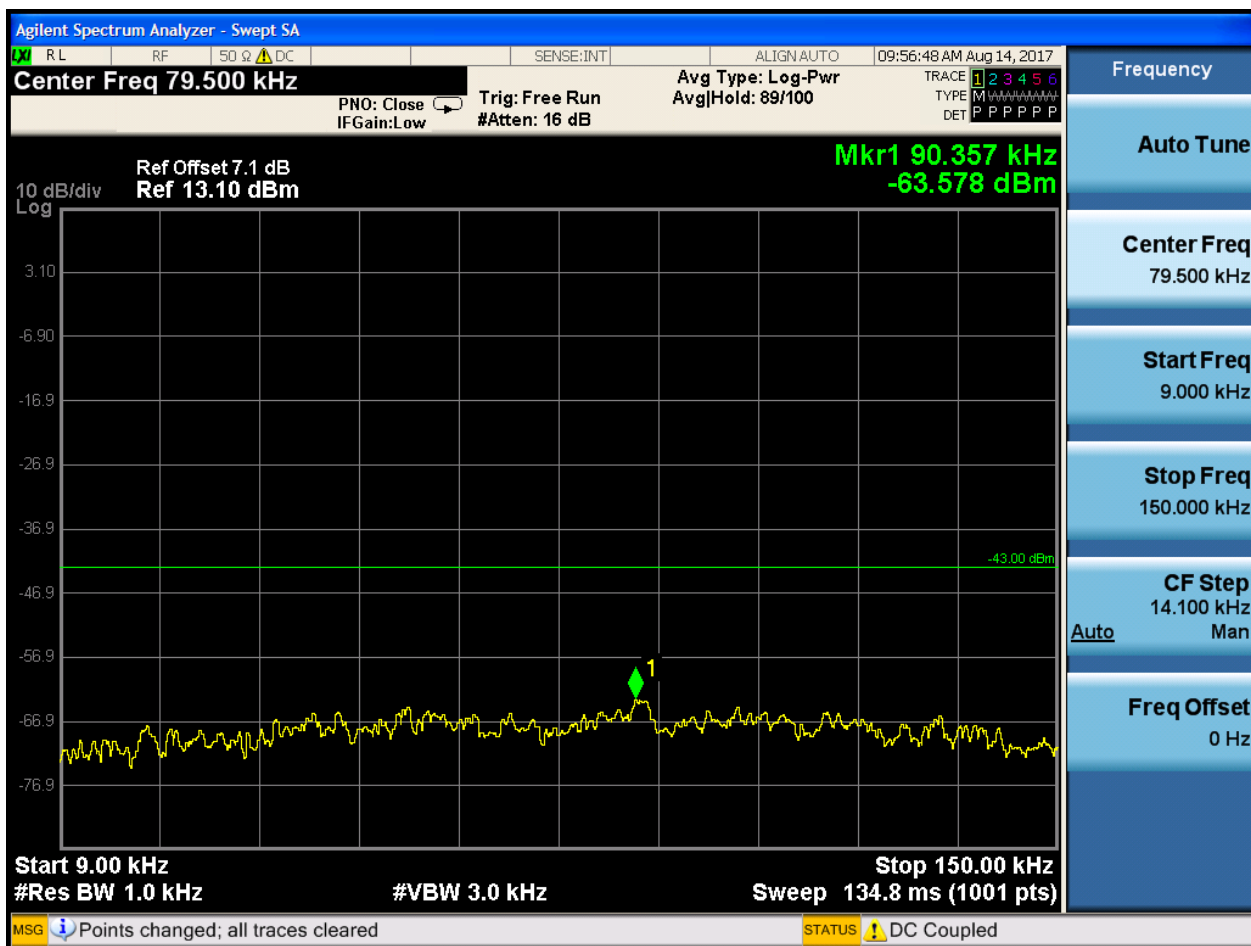


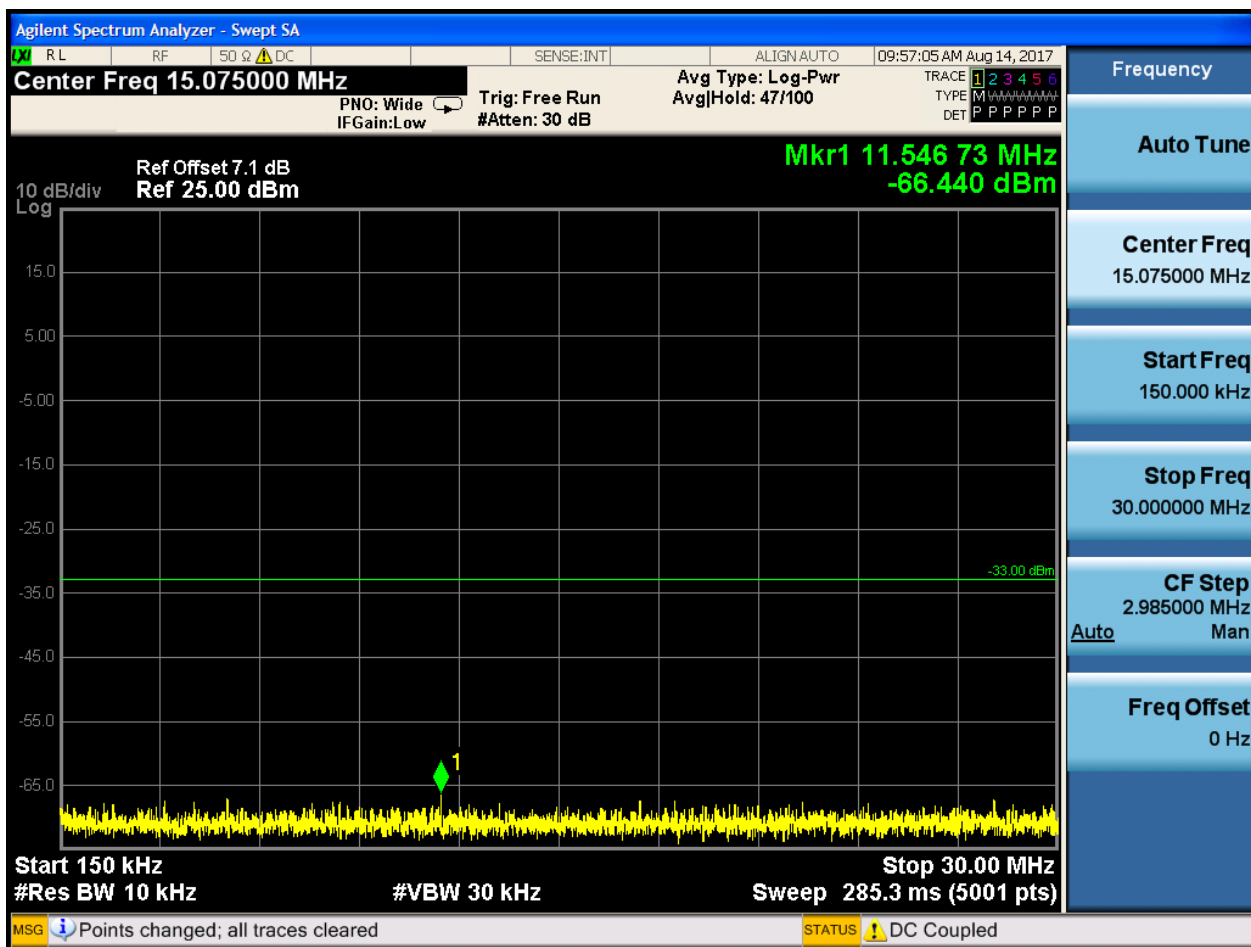


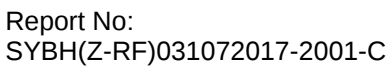


### 6.1.1.1.2.2 Test Channel = MCH

#### 6.1.1.1.2.2.1 Test RB = RB1#0

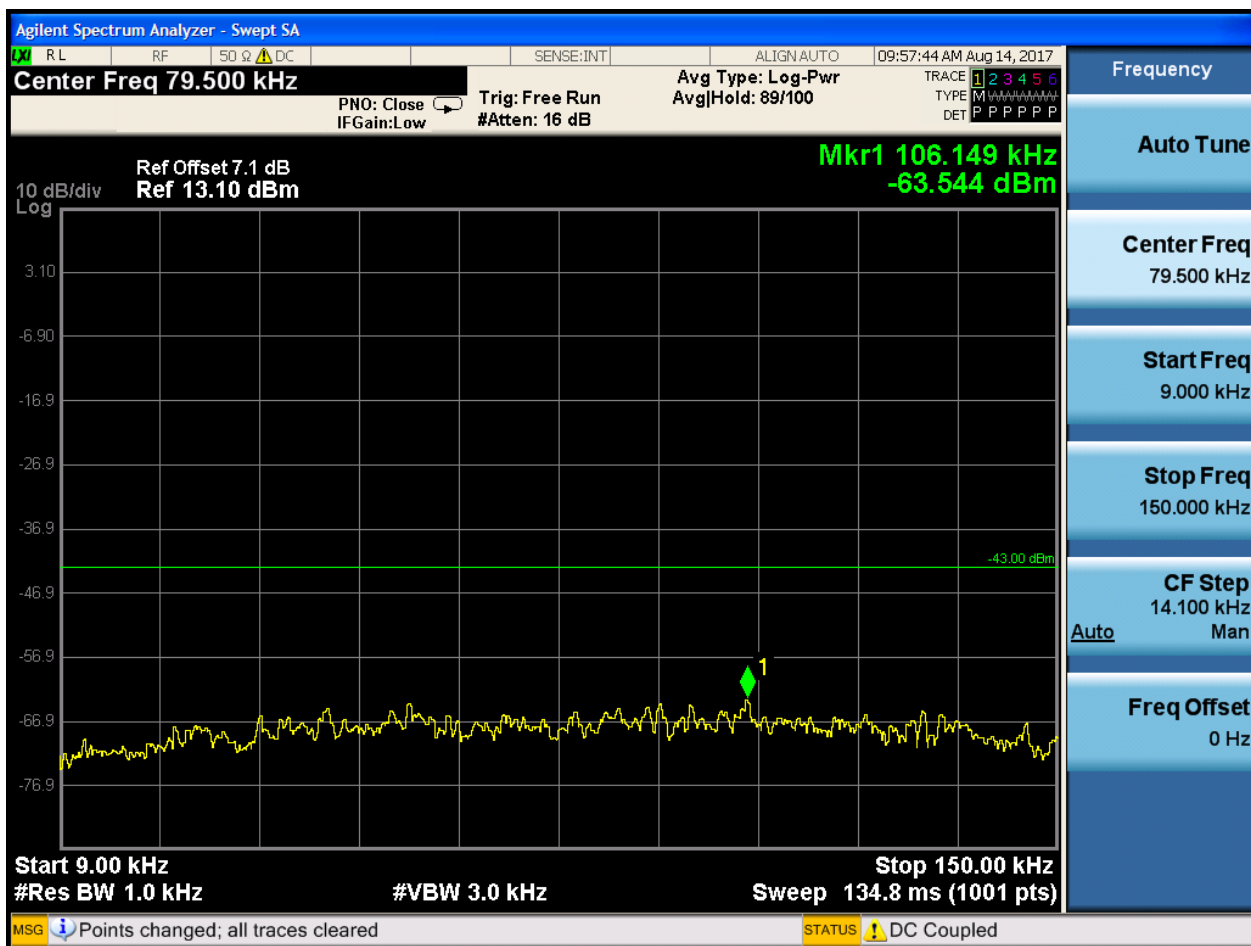


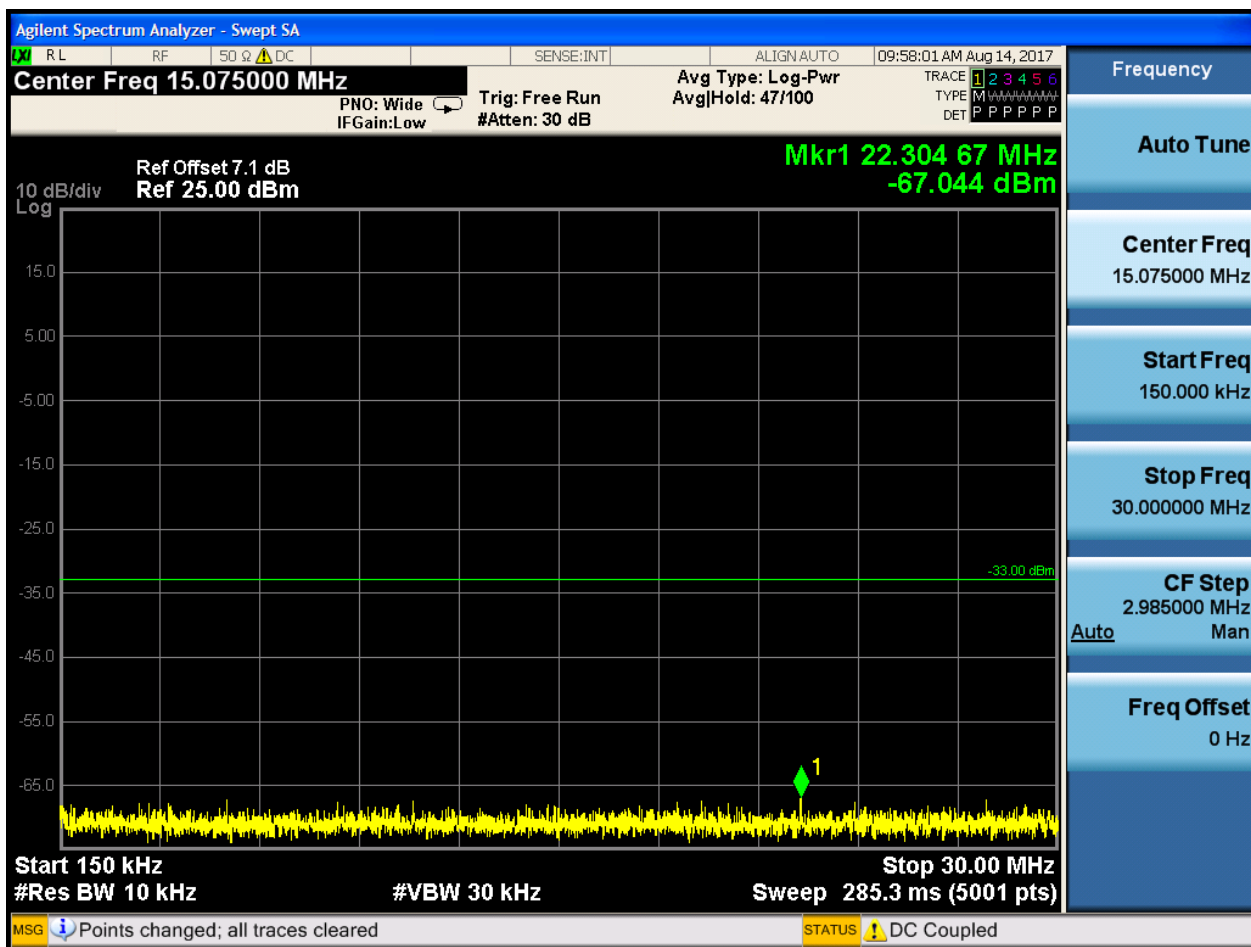


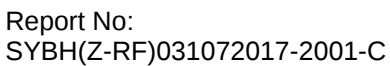


### 6.1.1.1.2.3 Test Channel = HCH

#### 6.1.1.1.2.3.1 Test RB = RB1#0



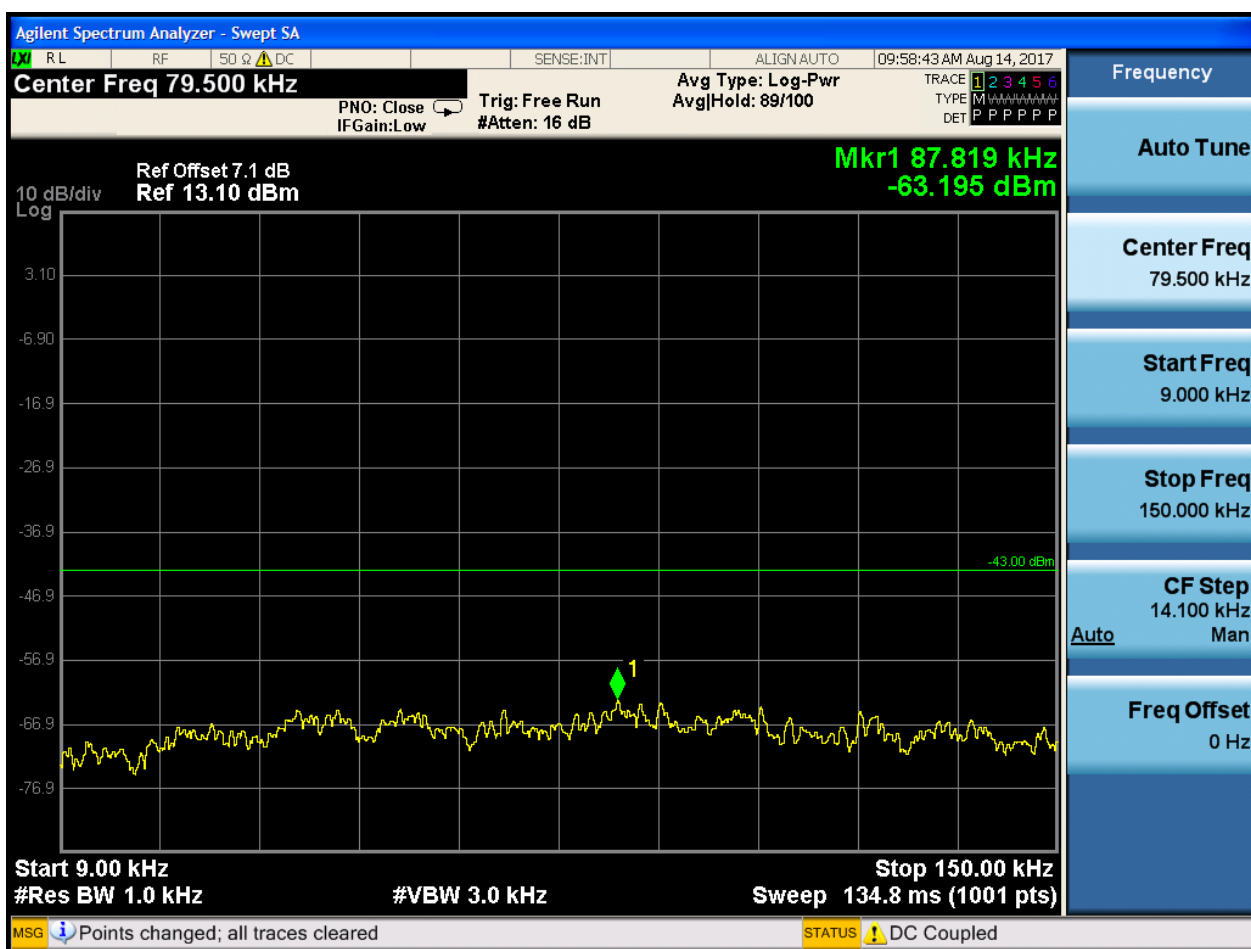


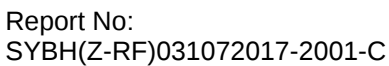


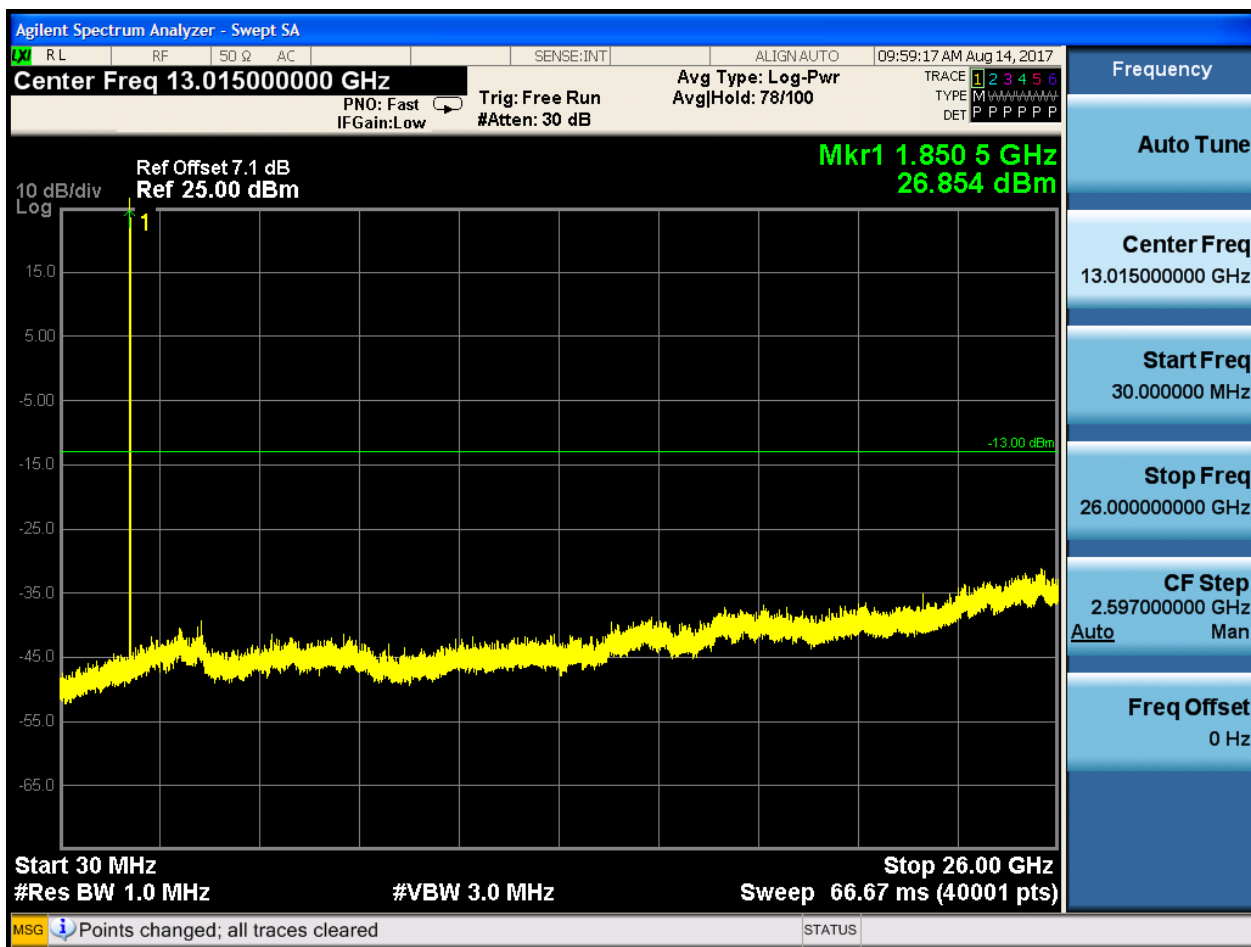
### 6.1.1.1.3 Test Bandwidth = 5

#### 6.1.1.1.3.1 Test Channel = LCH

##### 6.1.1.1.3.1.1 Test RB = RB1#0

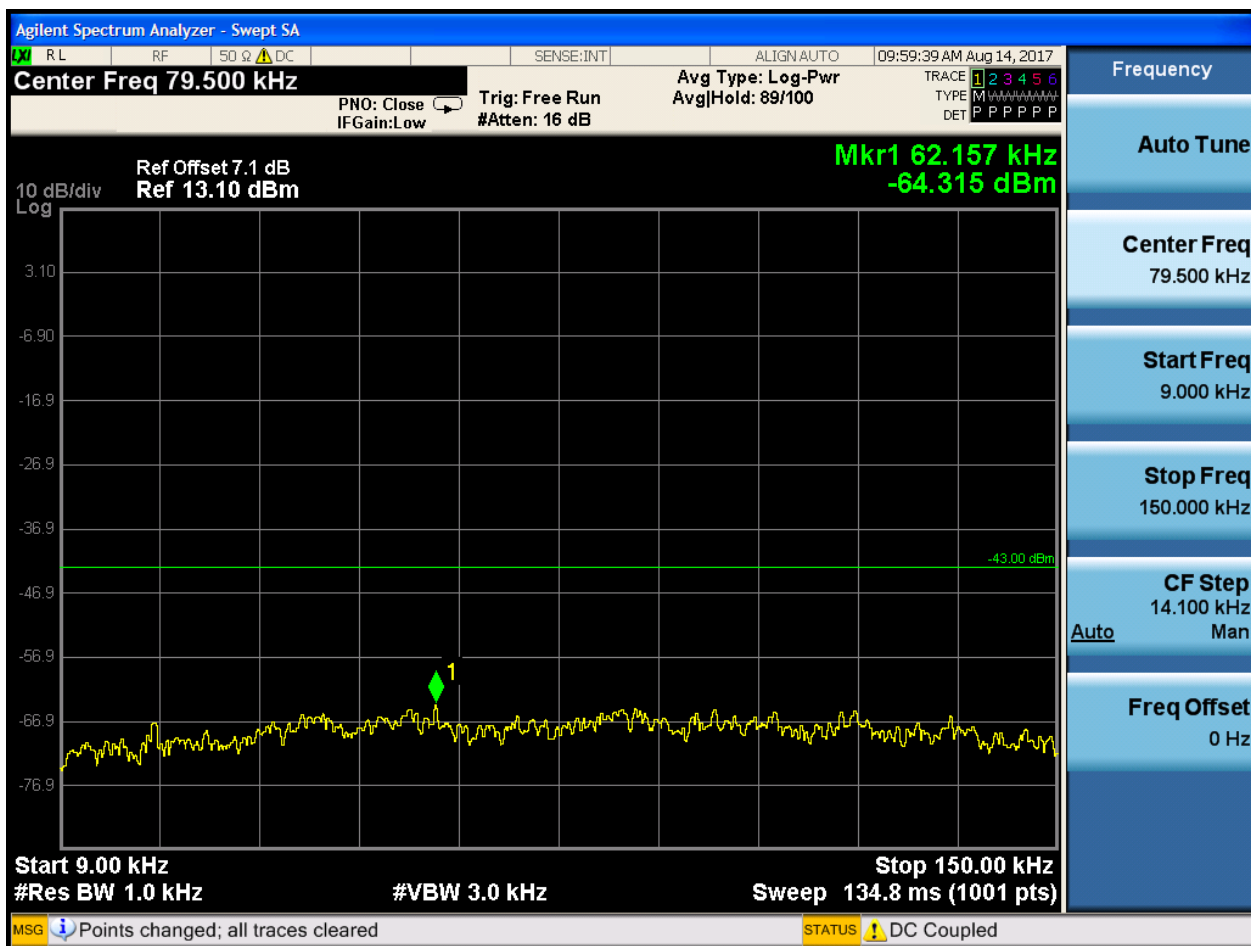


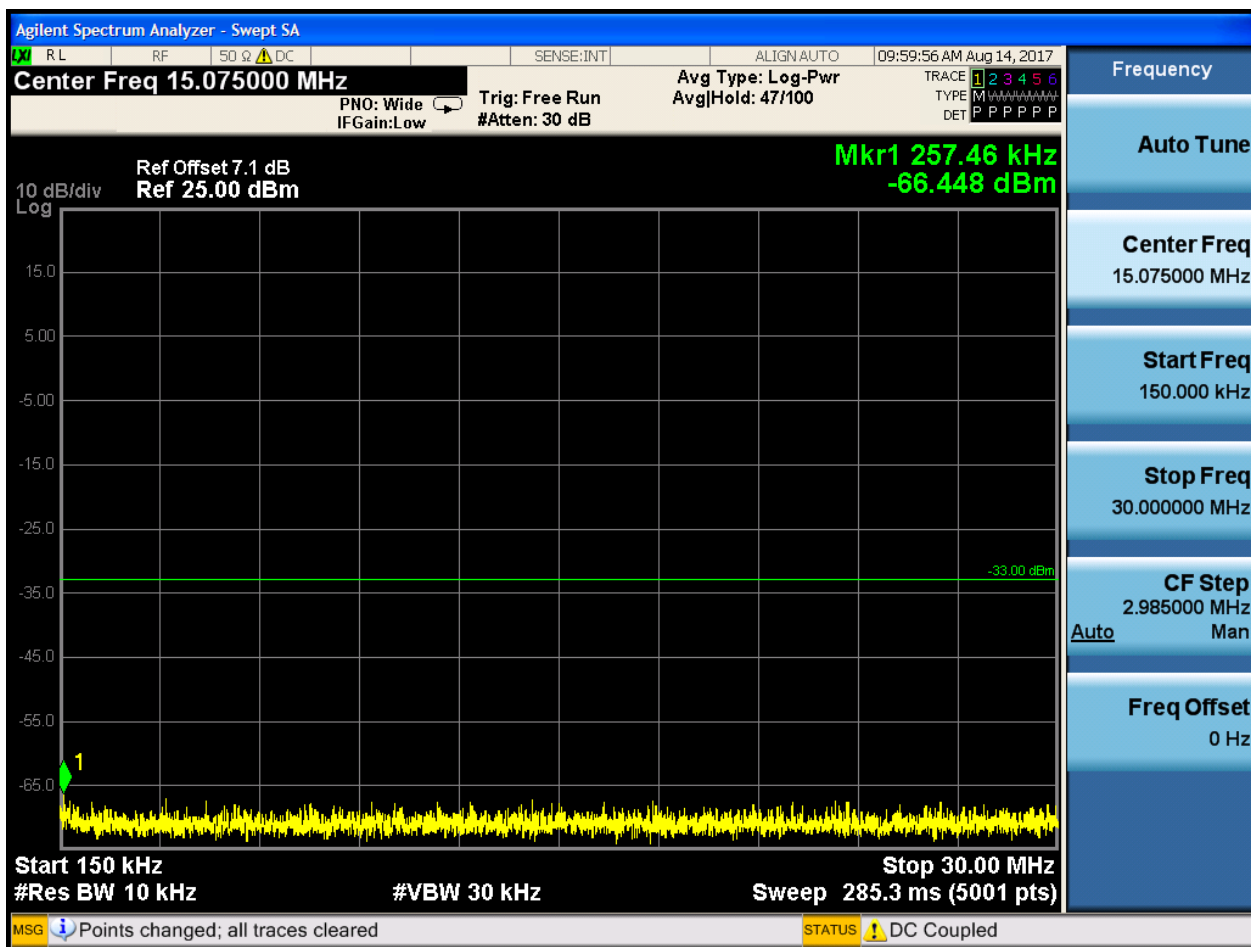


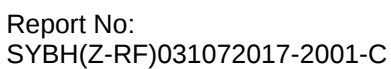


### 6.1.1.1.3.2 Test Channel = MCH

#### 6.1.1.1.3.2.1 Test RB = RB1#0

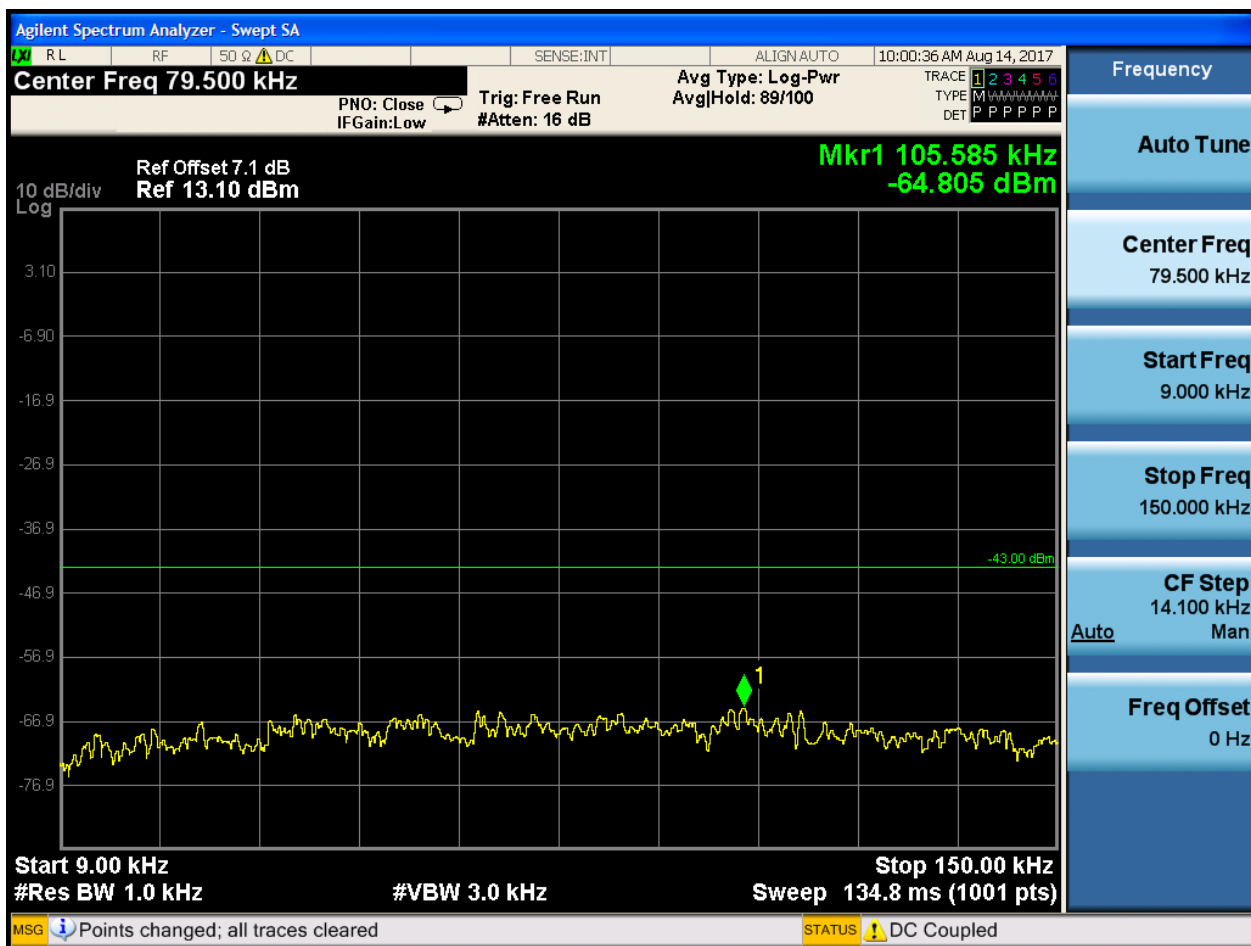


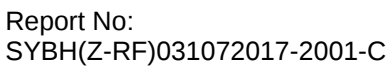


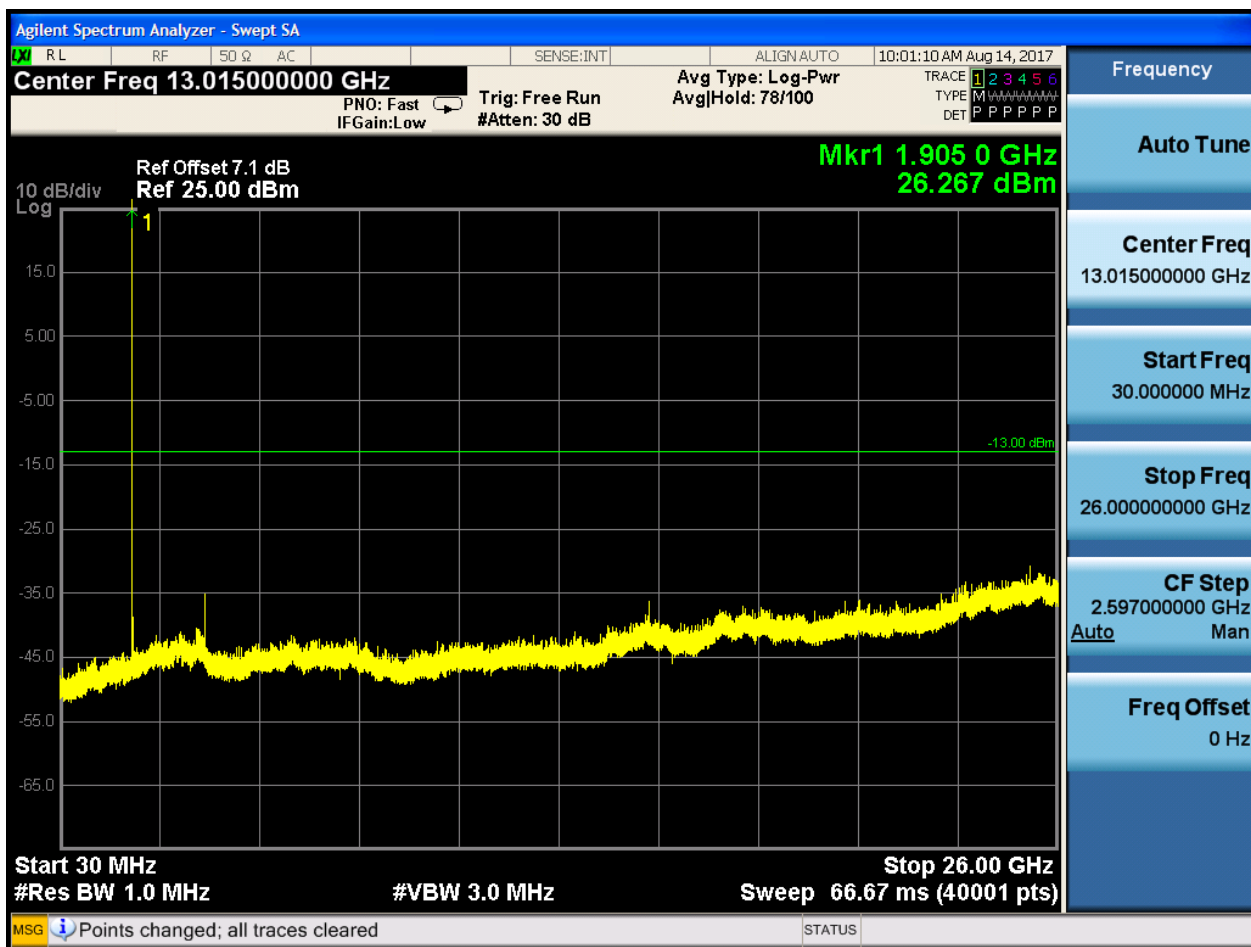


### 6.1.1.1.3.3 Test Channel = HCH

#### 6.1.1.1.3.3.1 Test RB = RB1#0



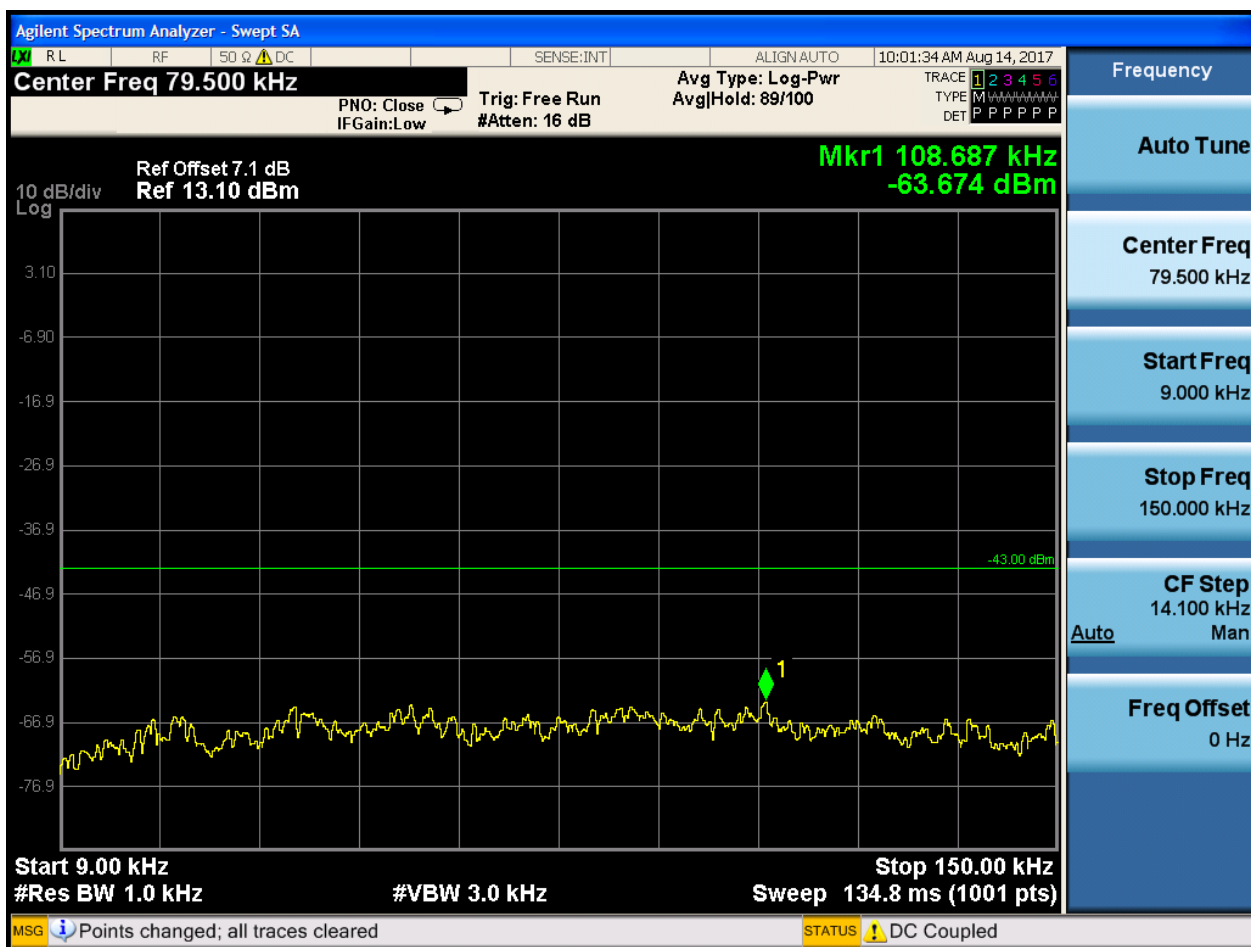


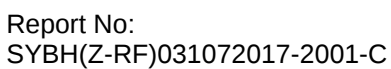


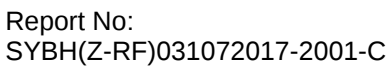
#### 6.1.1.1.4 Test Bandwidth = 10

##### 6.1.1.1.4.1 Test Channel = LCH

##### 6.1.1.1.4.1.1 Test RB = RB1#0



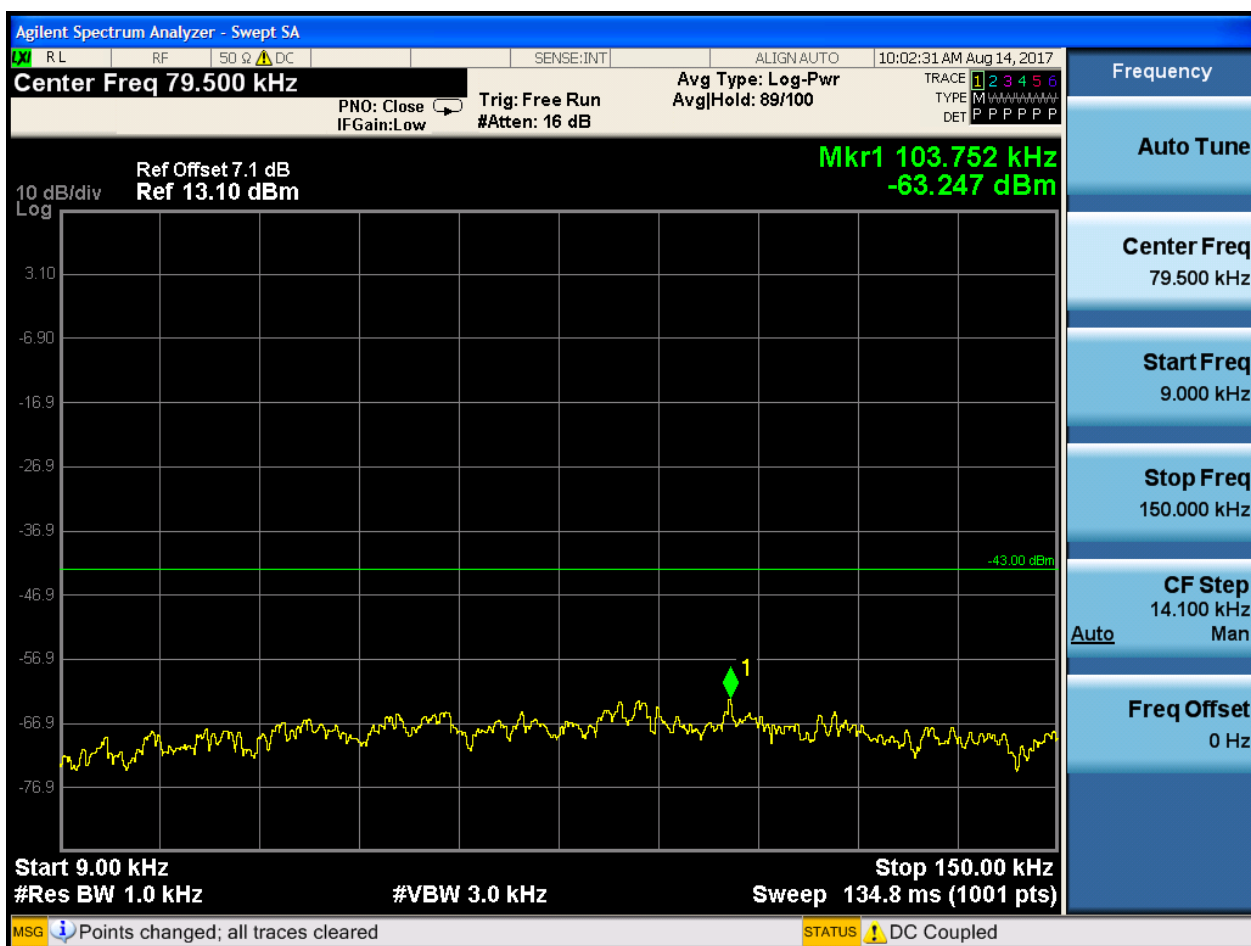


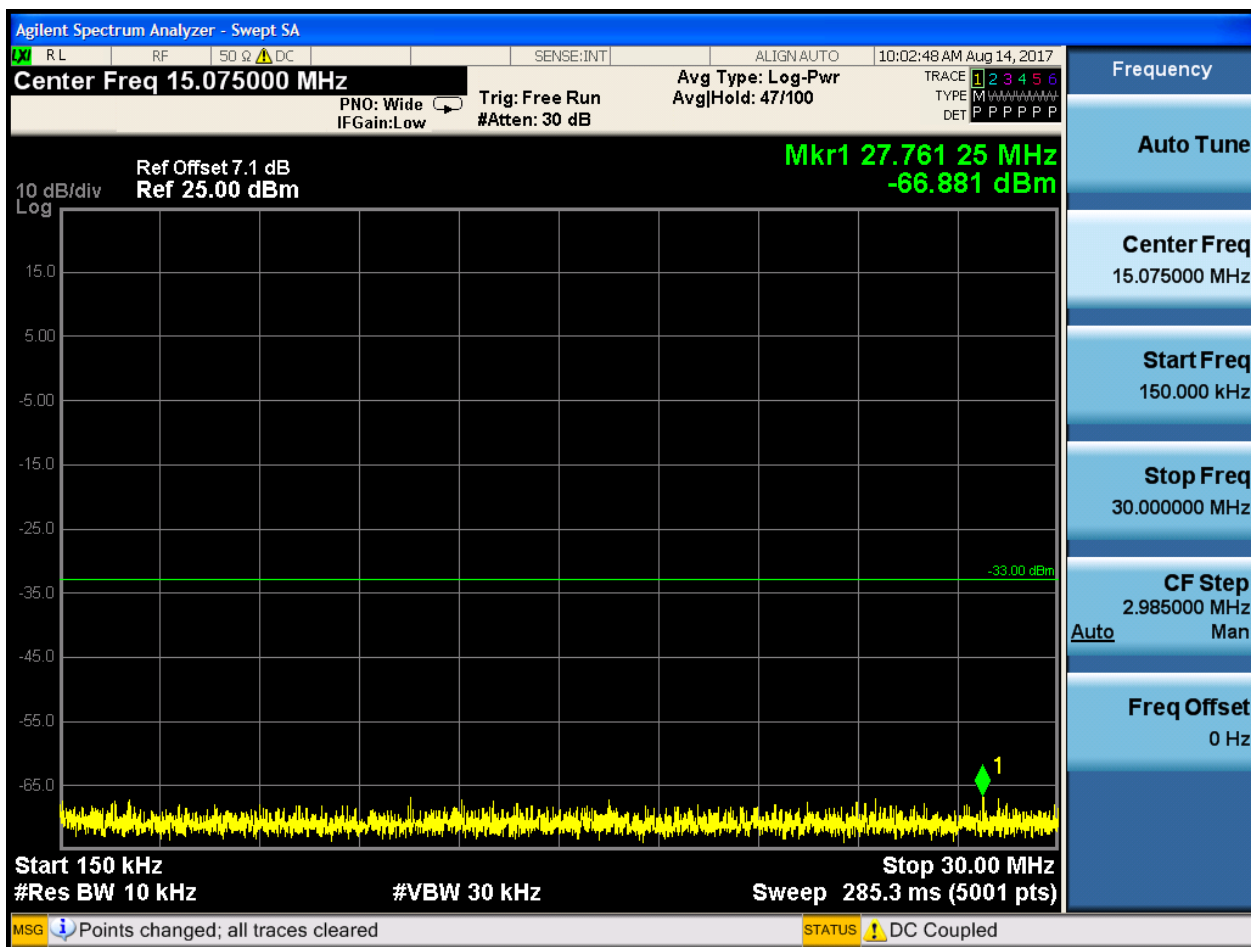


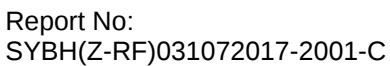


## 6.1.1.1.4.2 Test Channel = MCH

## 6.1.1.1.4.2.1 Test RB = RB1#0



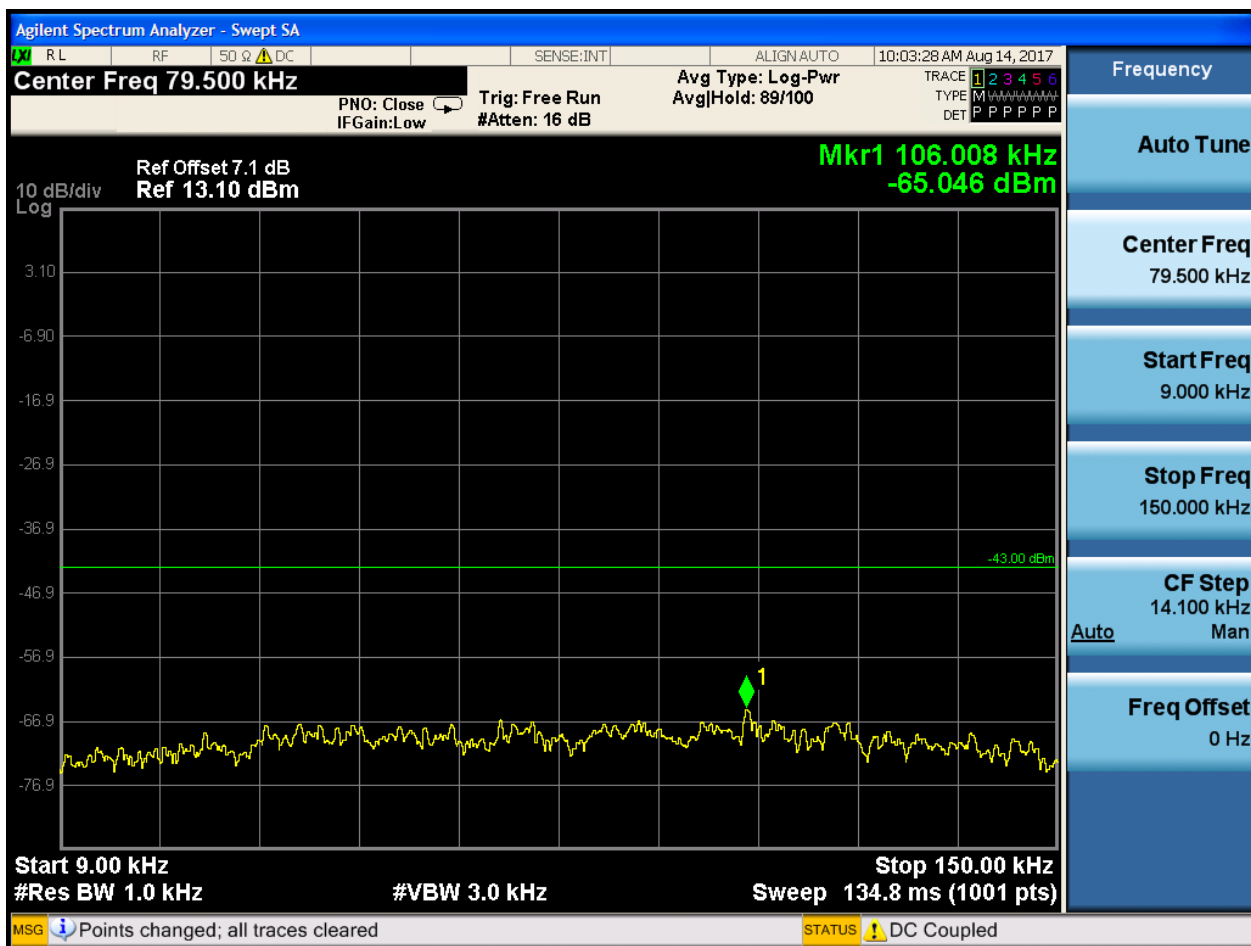


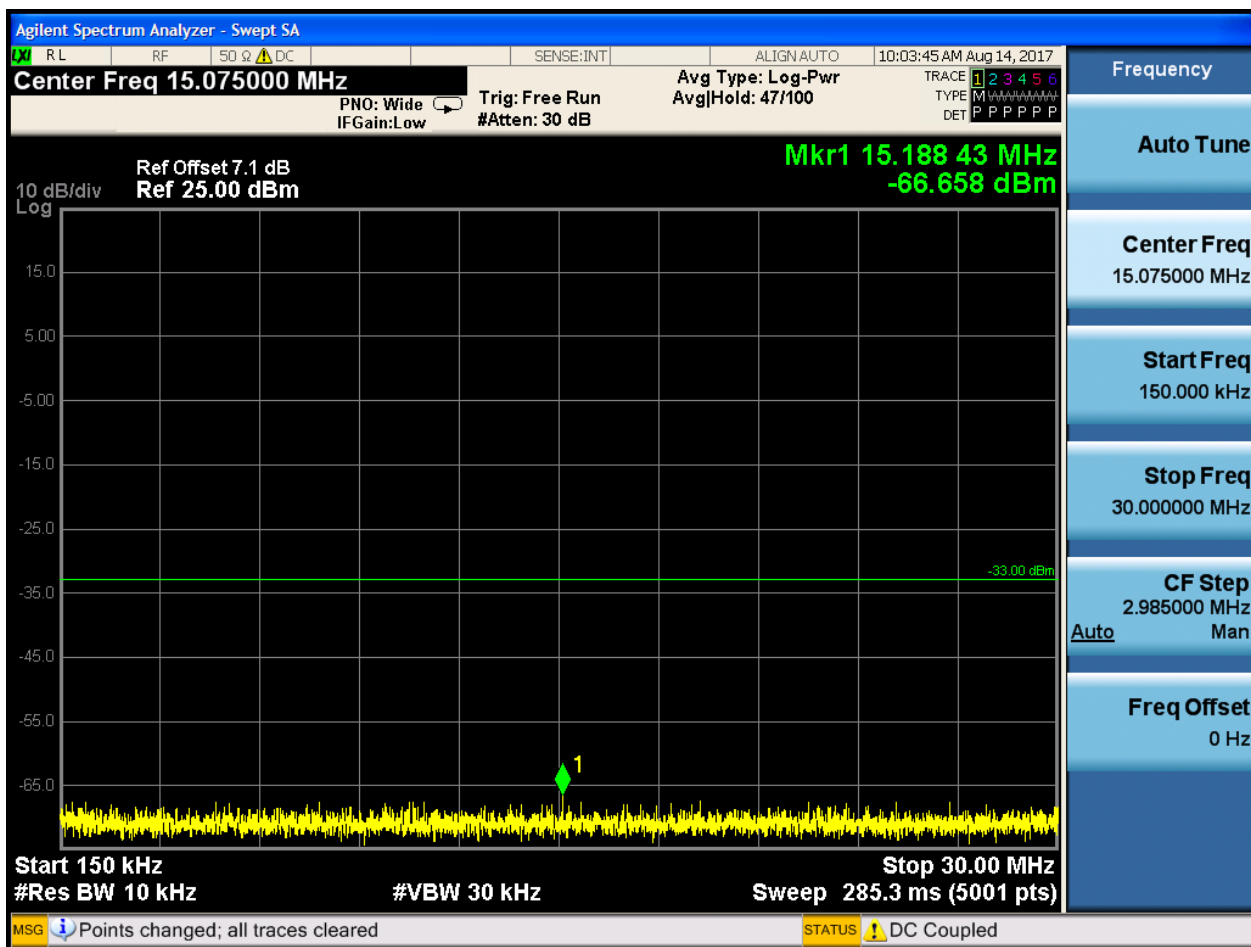


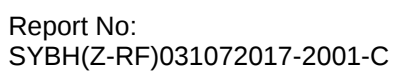


## 6.1.1.1.4.3 Test Channel = HCH

## 6.1.1.1.4.3.1 Test RB = RB1#0



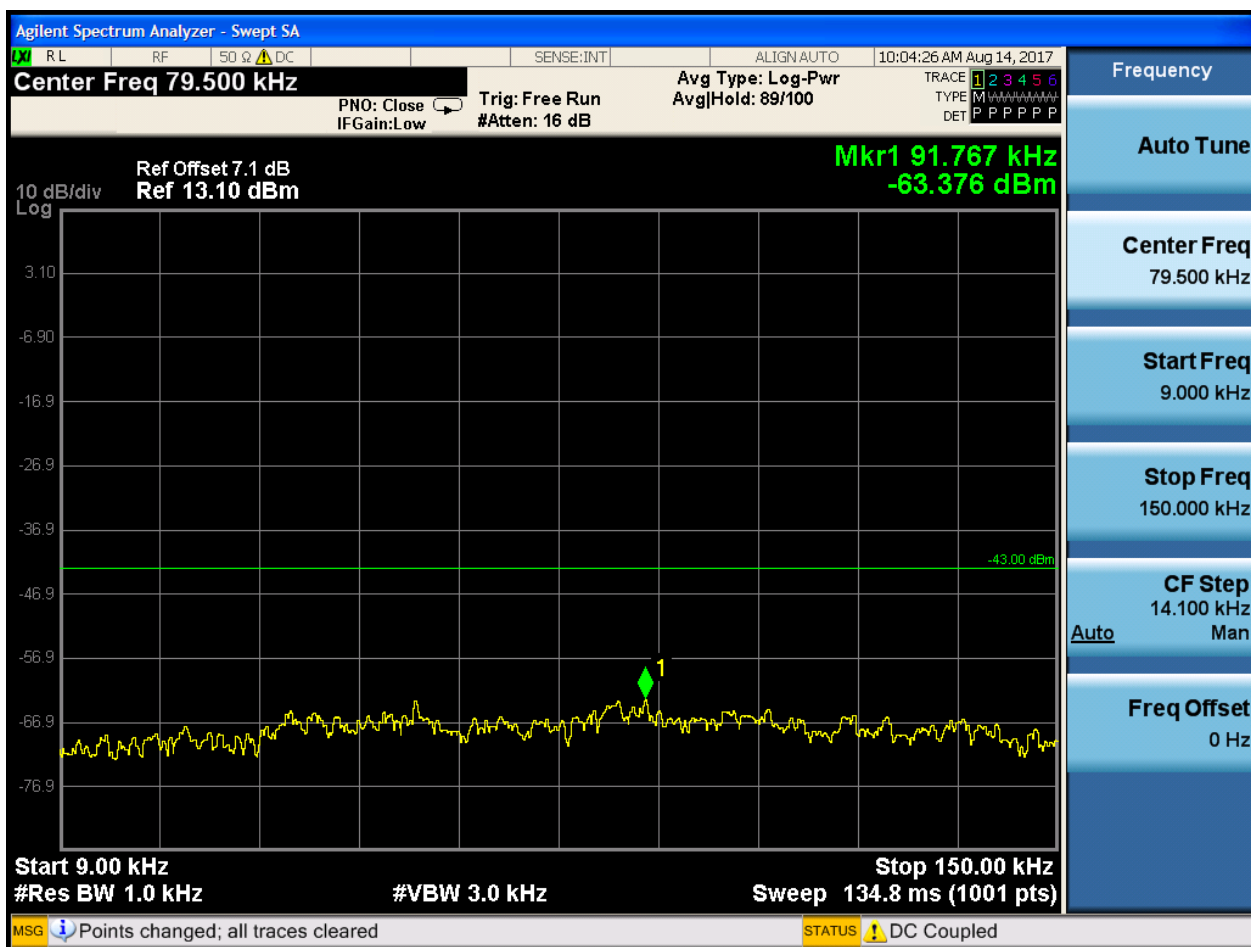


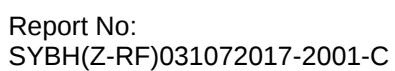


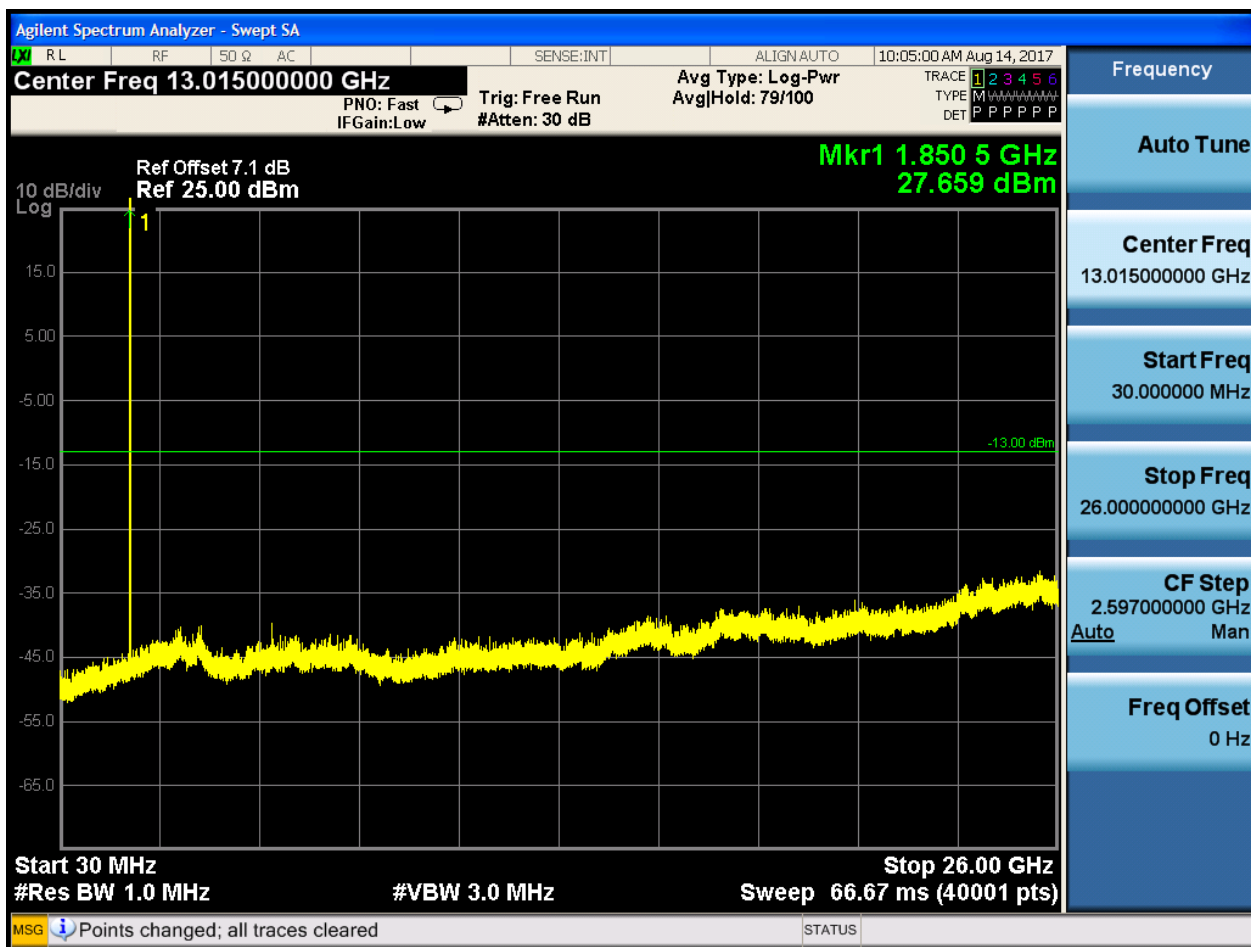
### 6.1.1.1.5 Test Bandwidth = 15

#### 6.1.1.1.5.1 Test Channel = LCH

##### 6.1.1.1.5.1.1 Test RB = RB1#0

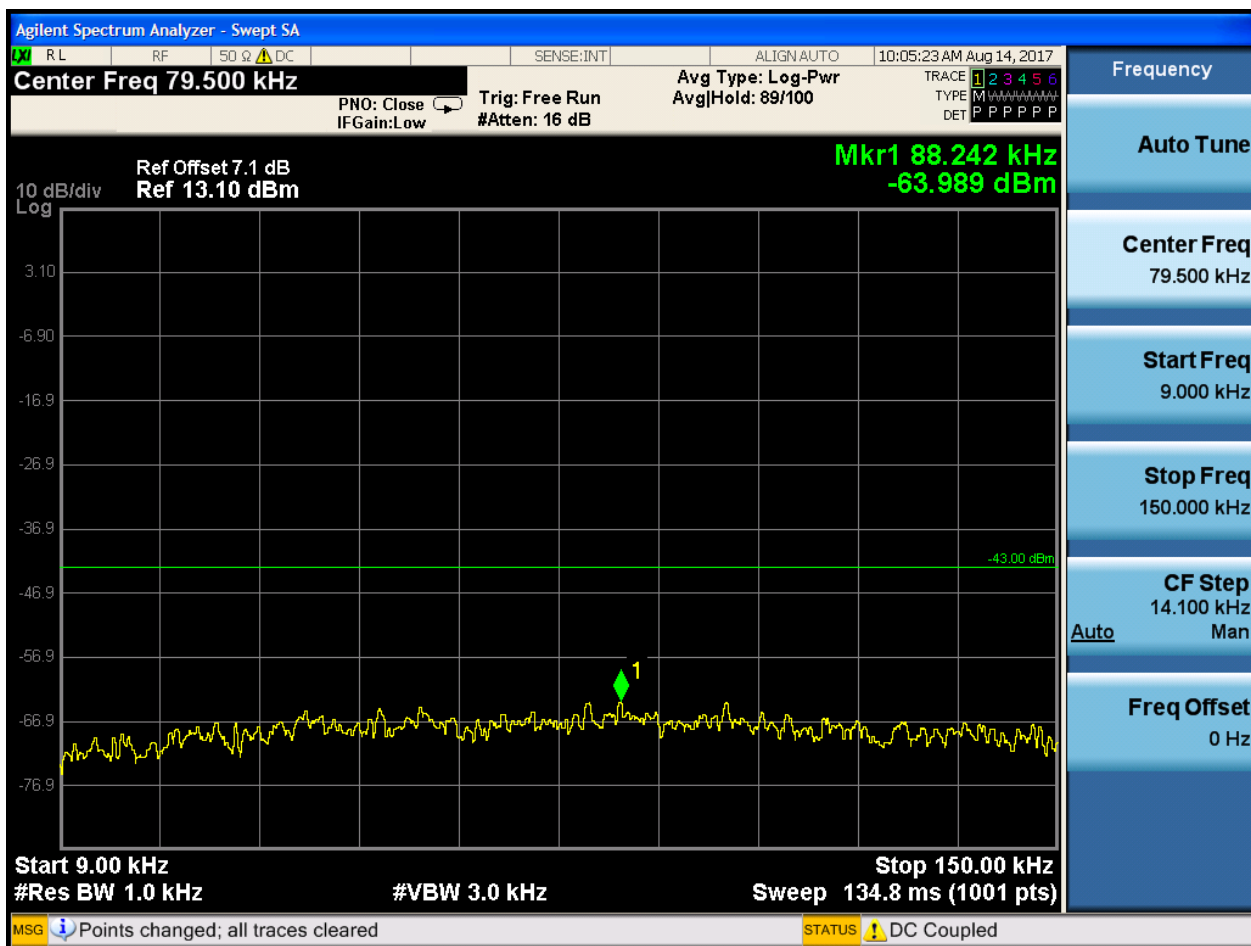


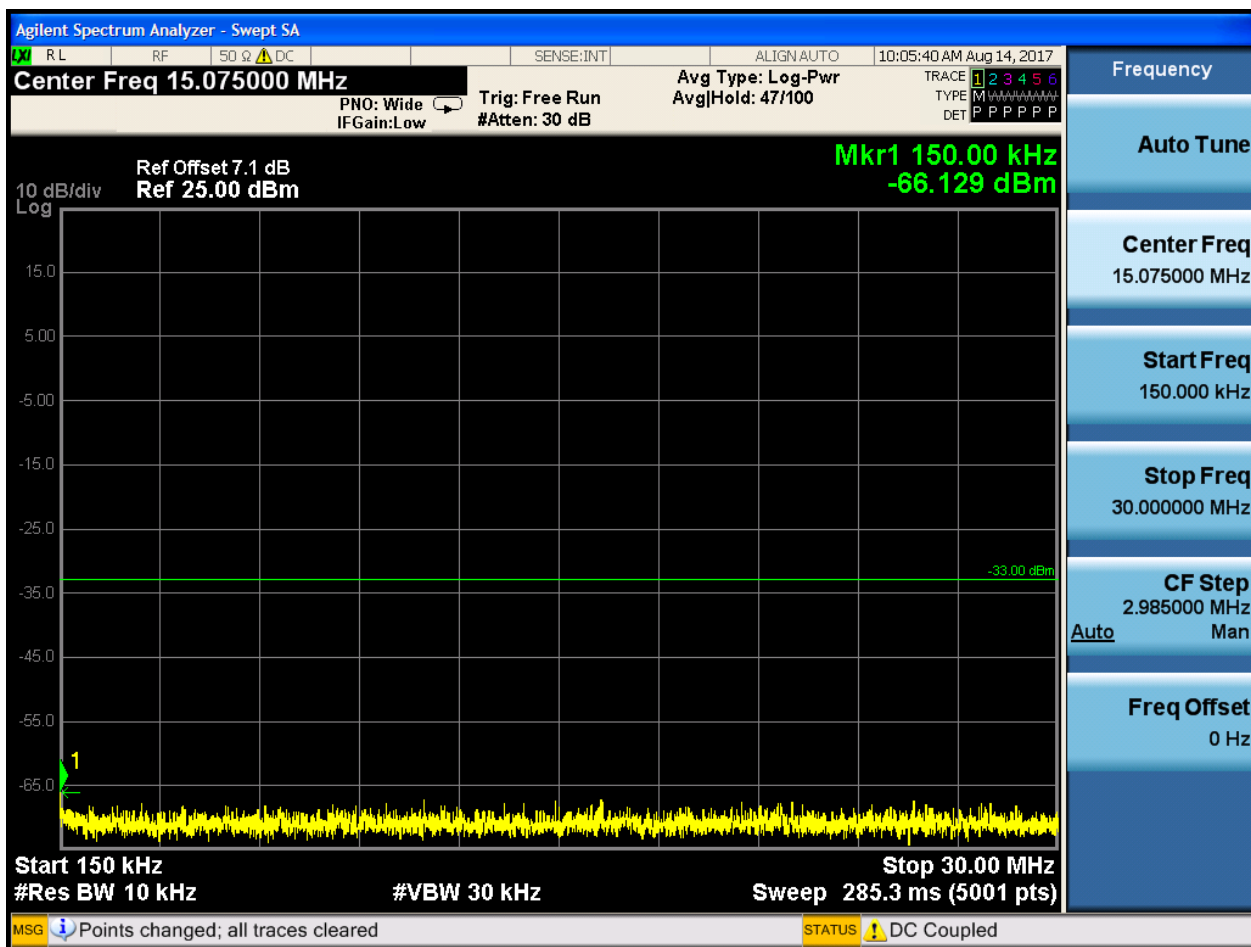


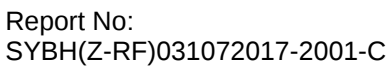


### 6.1.1.1.5.2 Test Channel = MCH

#### 6.1.1.1.5.2.1 Test RB = RB1#0



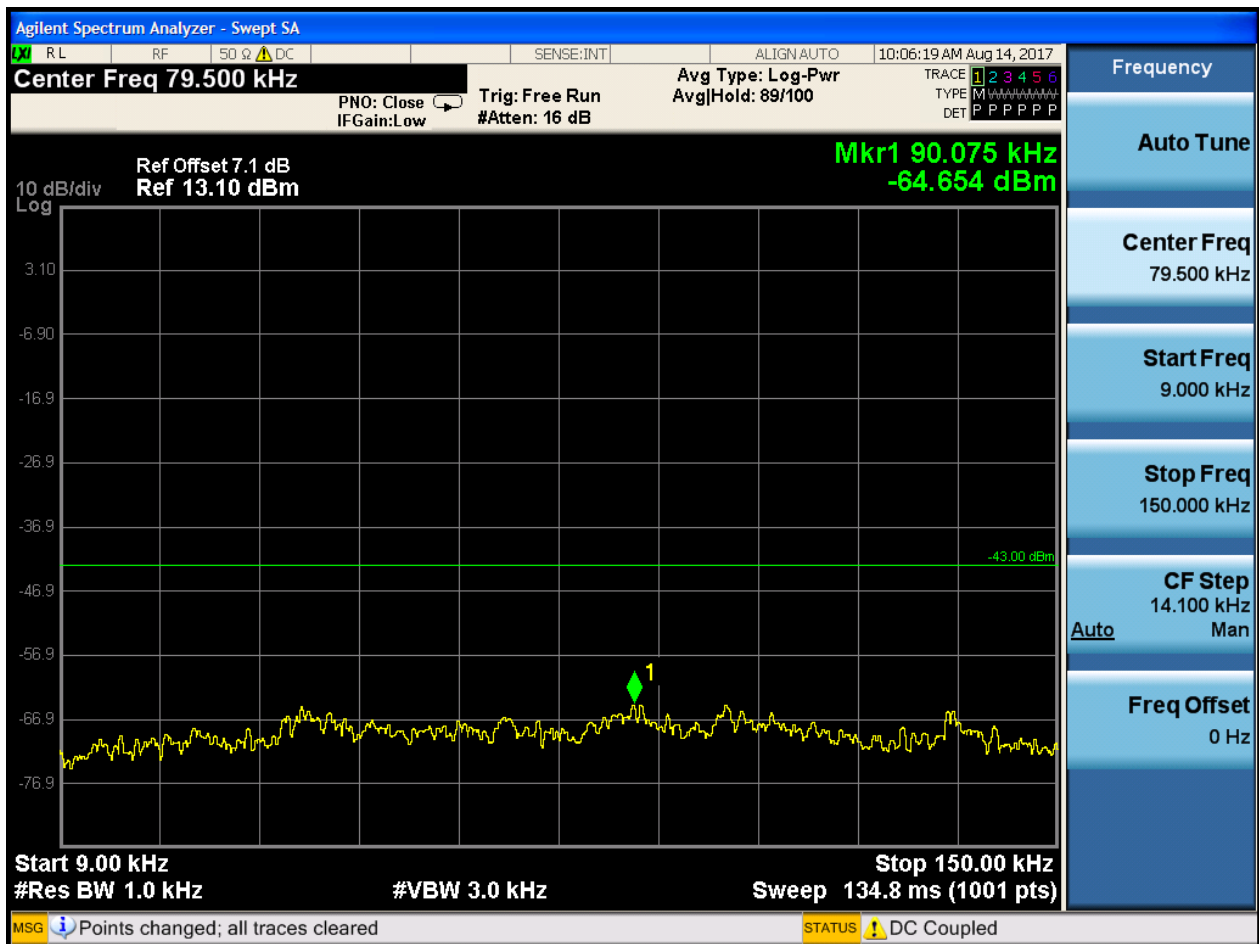


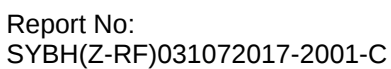


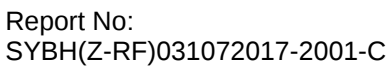


## 6.1.1.1.5.3 Test Channel = HCH

## 6.1.1.1.5.3.1 Test RB = RB1#0



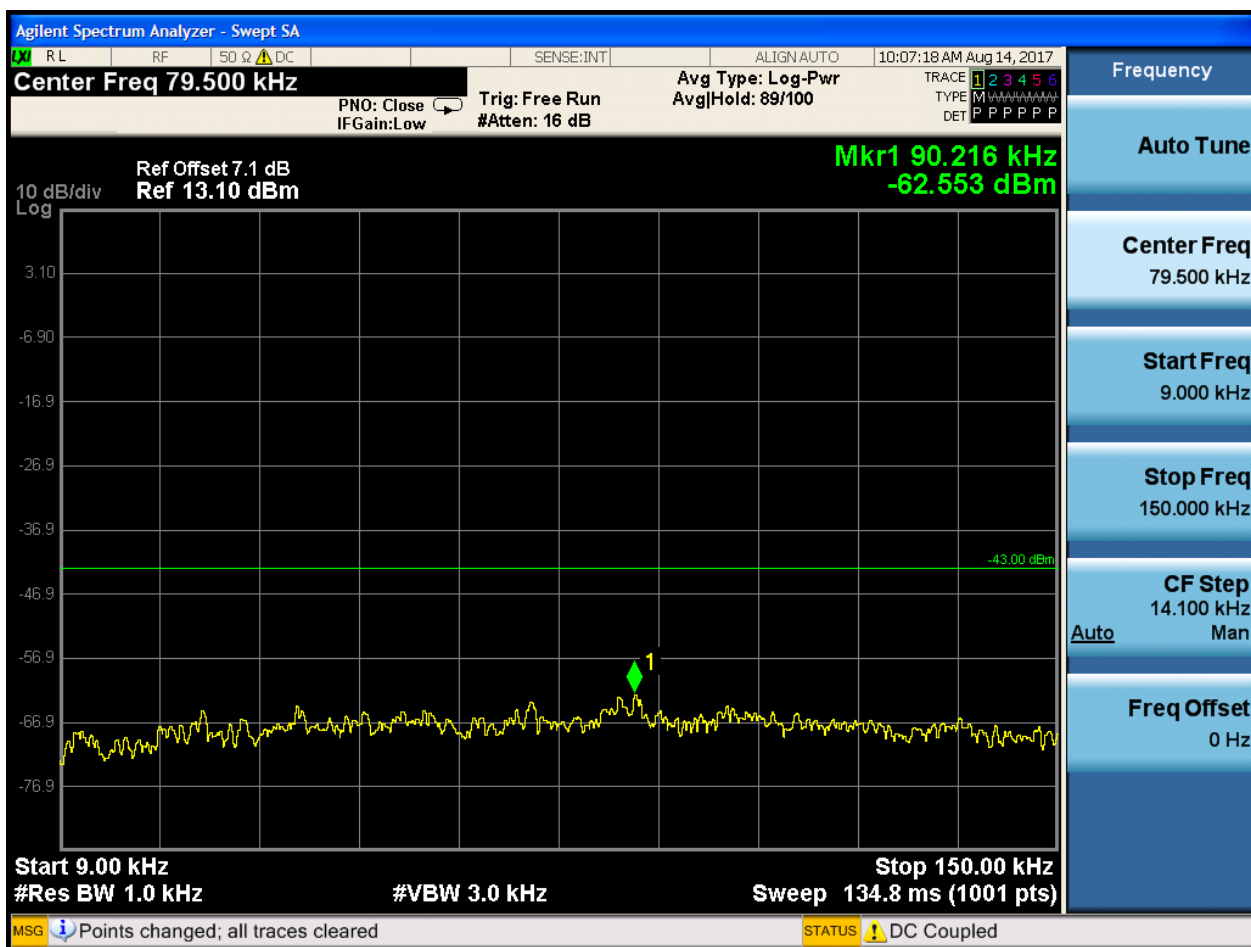


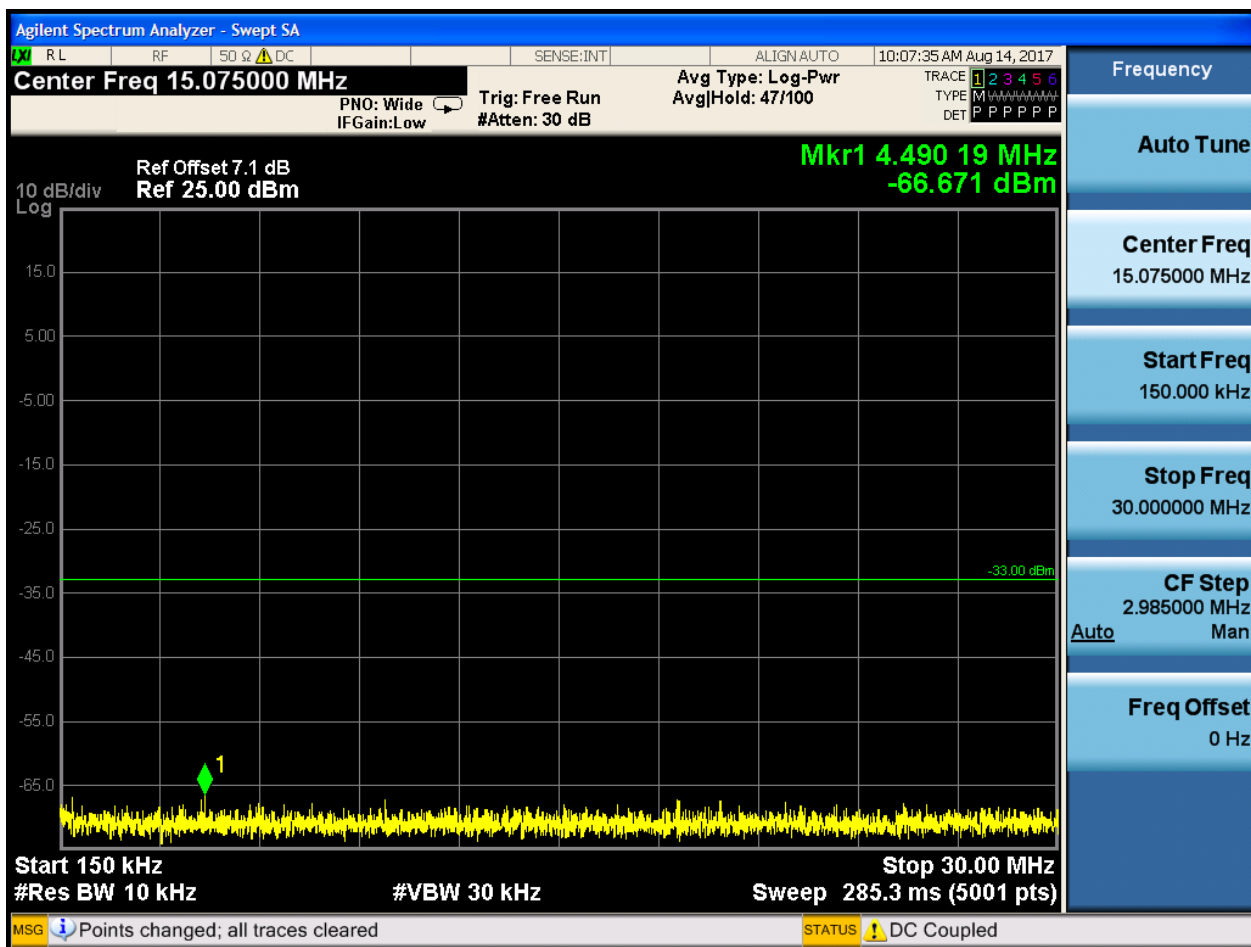


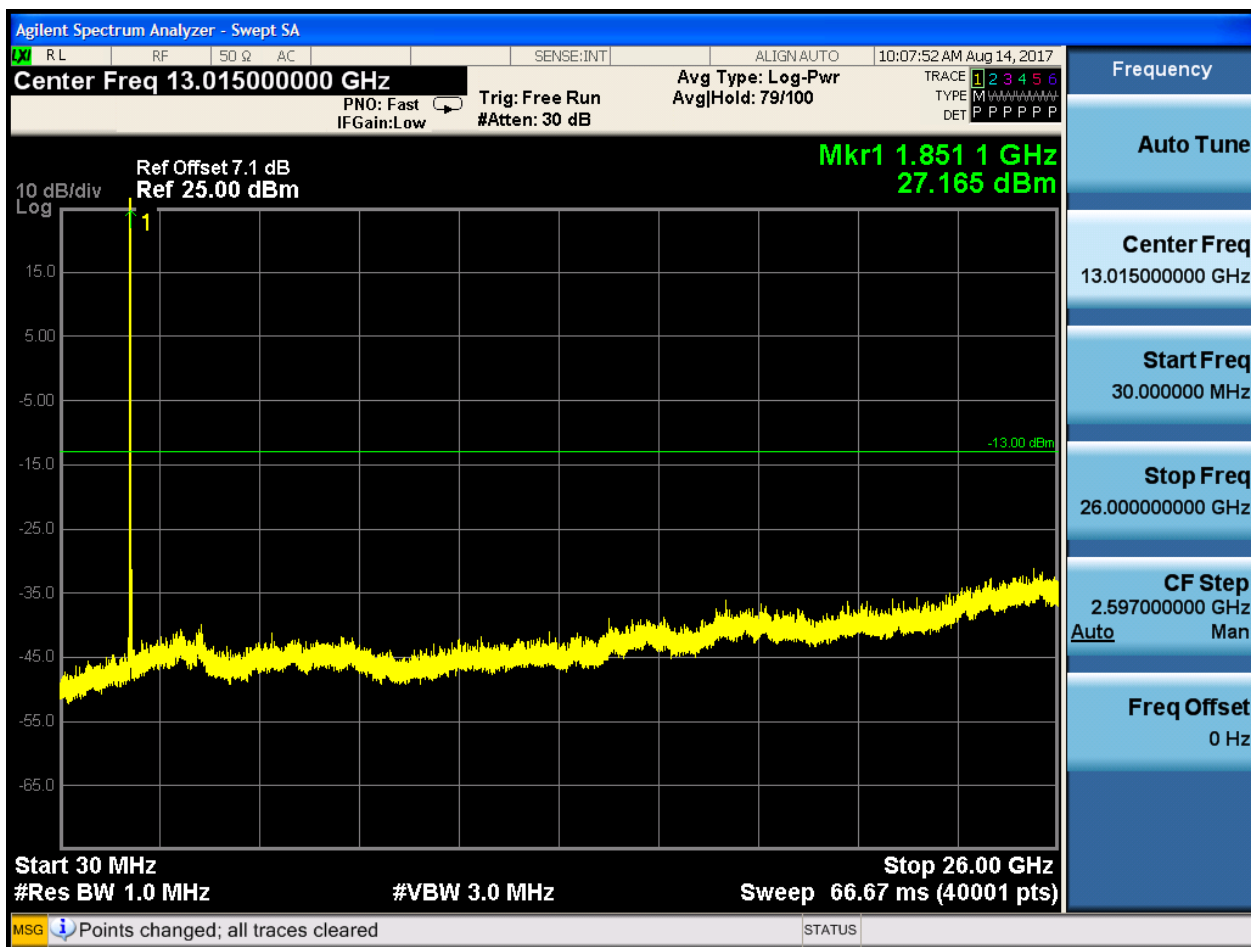
### 6.1.1.1.6 Test Bandwidth = 20

#### 6.1.1.1.6.1 Test Channel = LCH

##### 6.1.1.1.6.1.1 Test RB = RB1#0



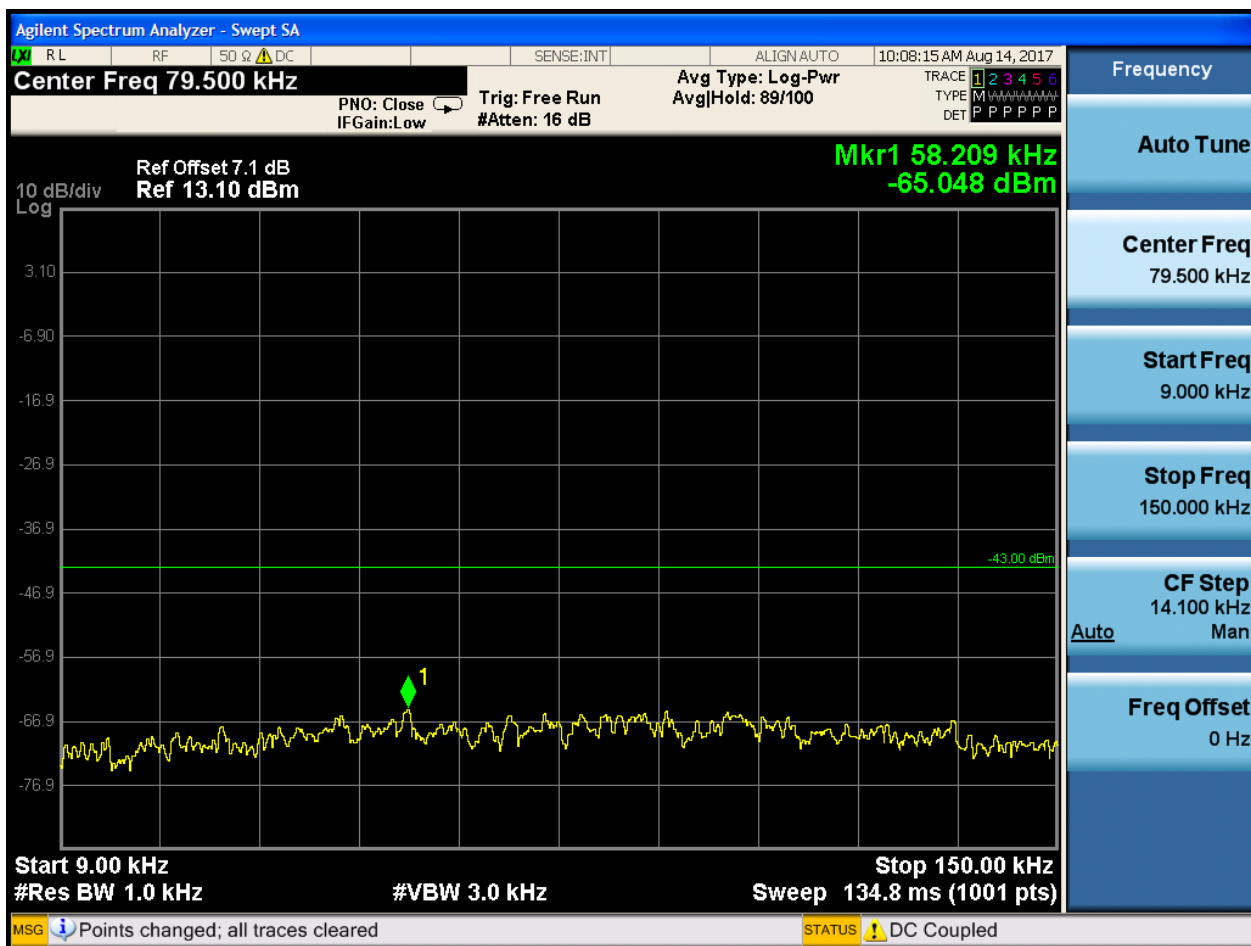


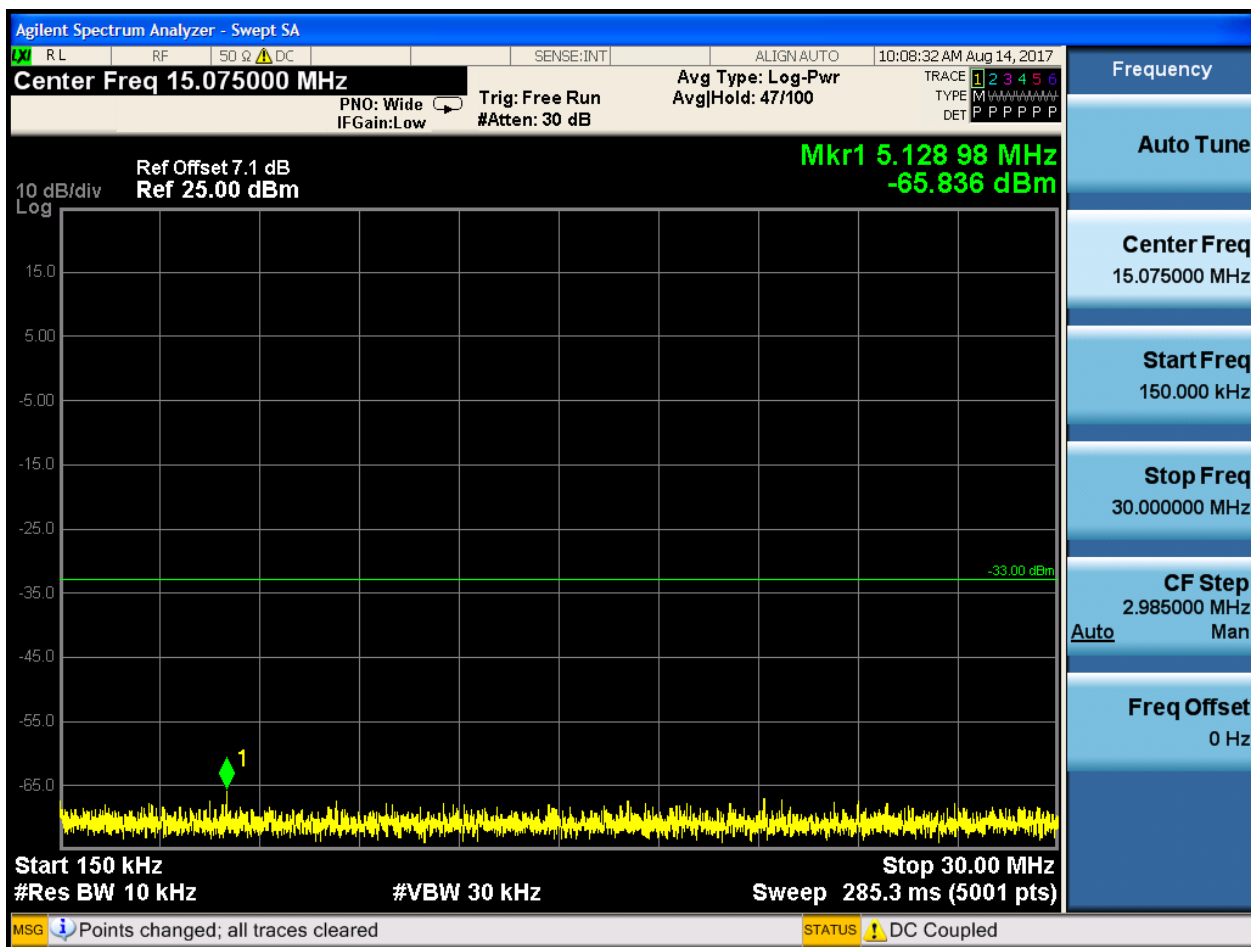


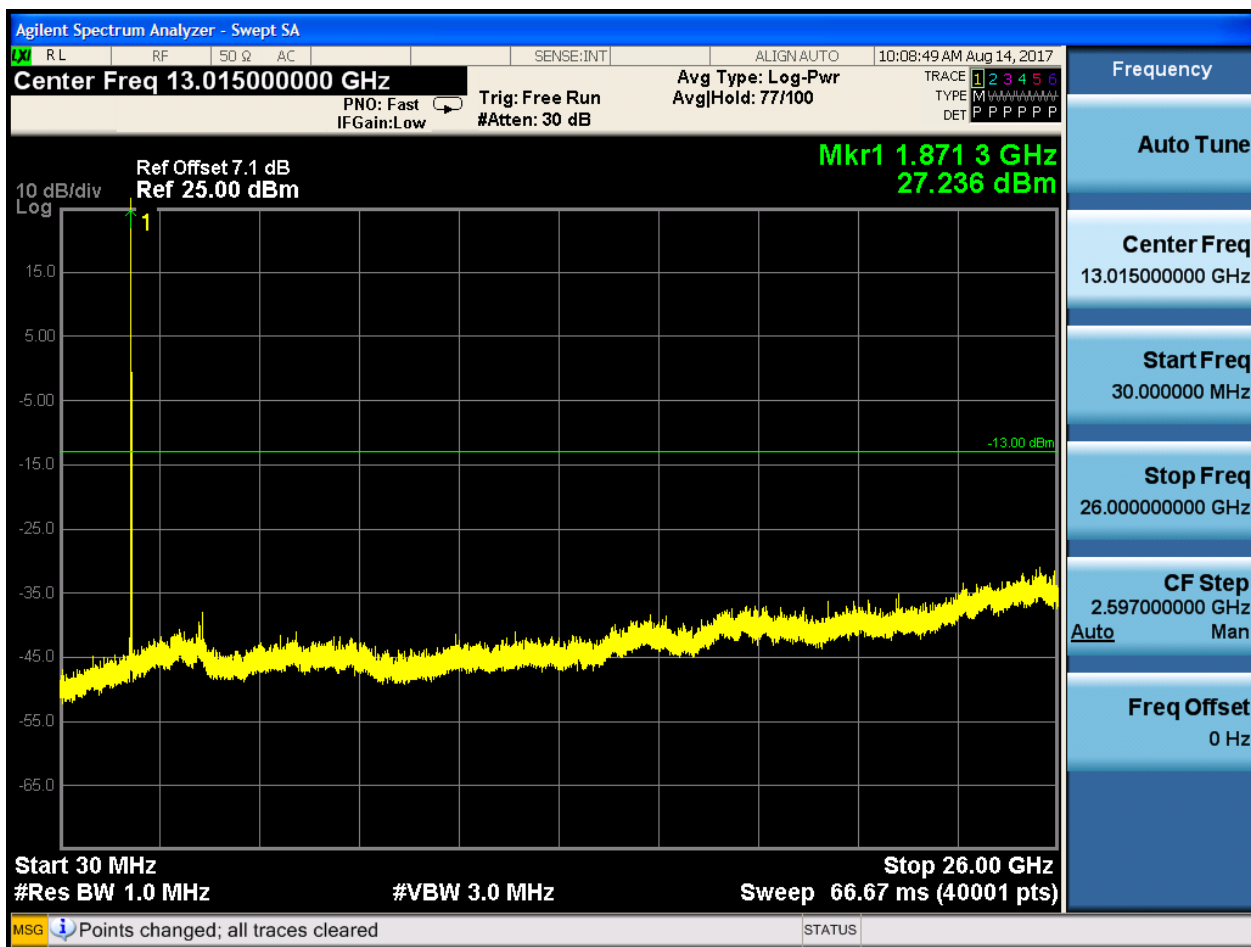


## 6.1.1.1.6.2 Test Channel = MCH

## 6.1.1.1.6.2.1 Test RB = RB1#0



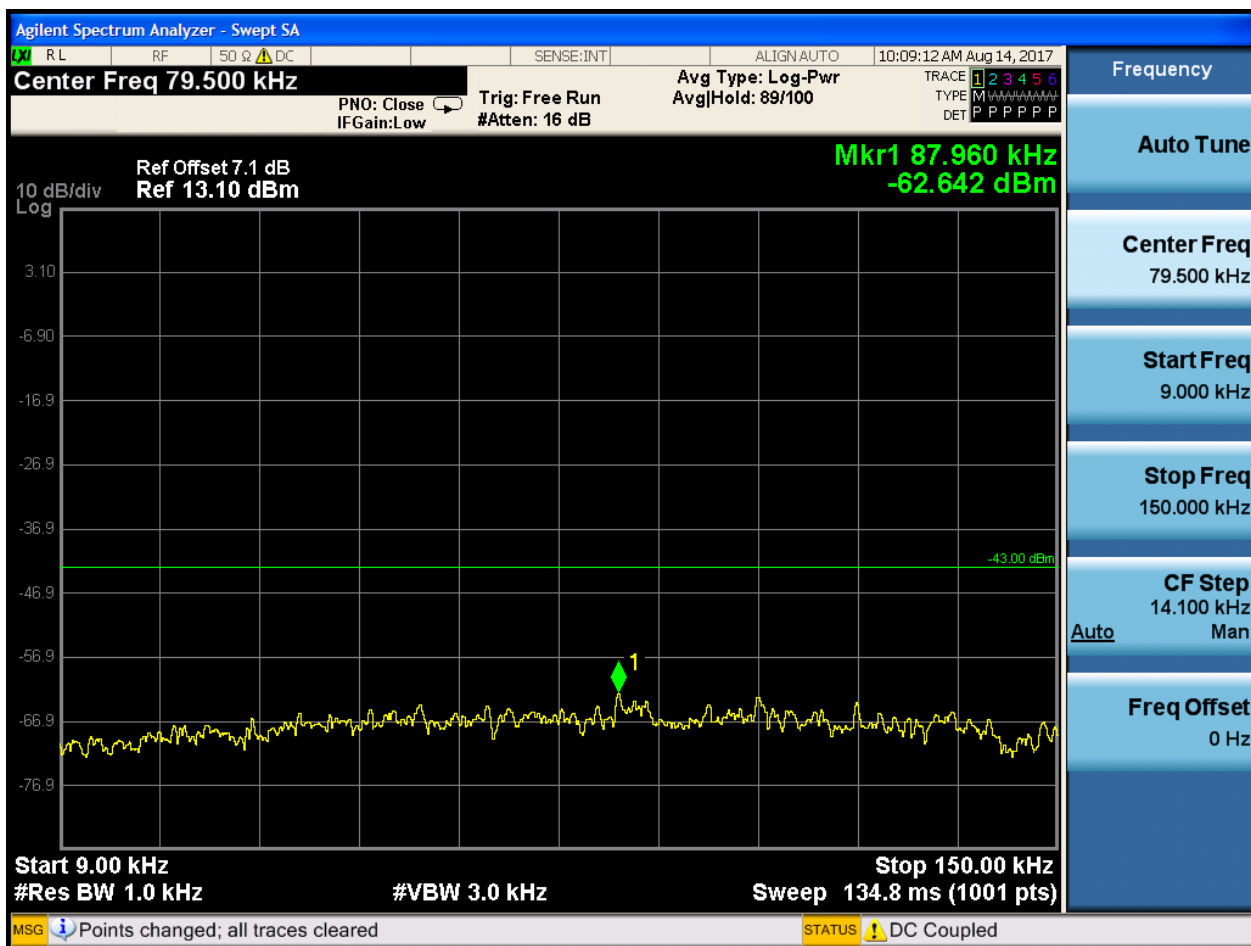


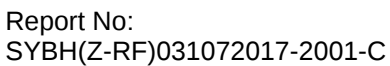


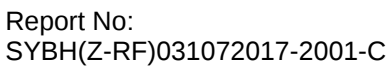


## 6.1.1.1.6.3 Test Channel = HCH

## 6.1.1.1.6.3.1 Test RB = RB1#0





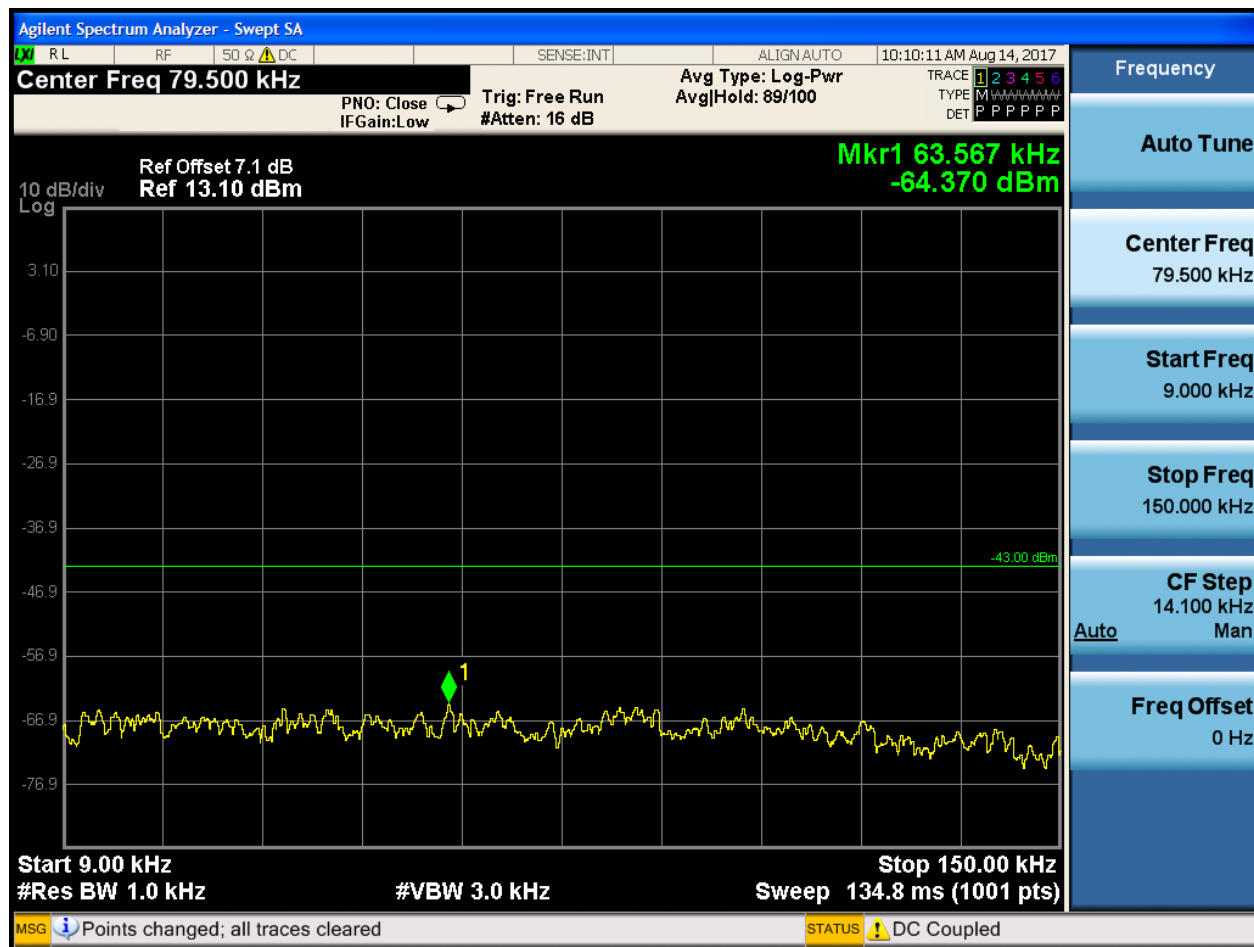


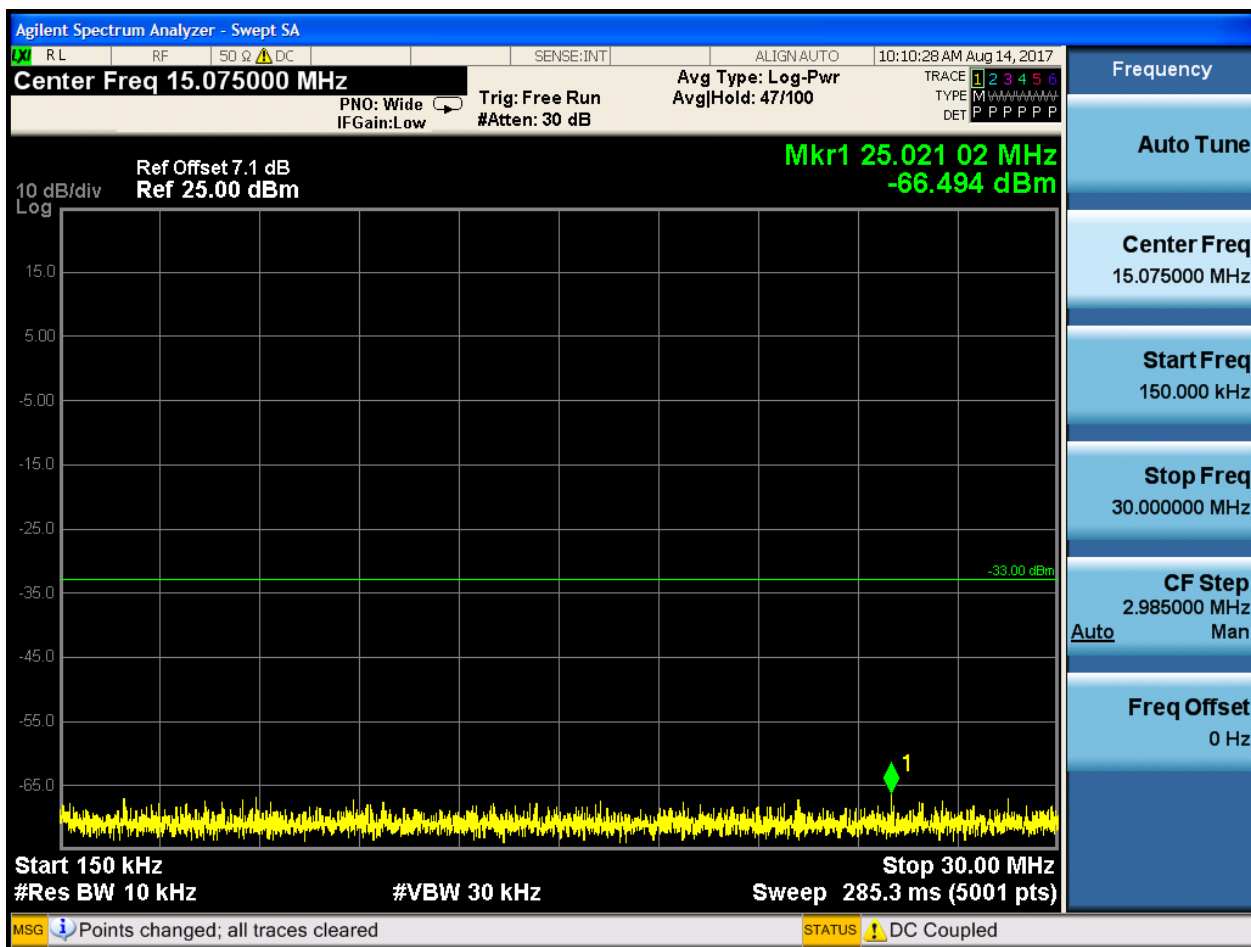
### 6.1.1.2 Test Mode = LTE/TM2

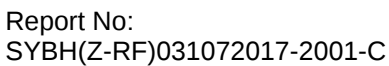
#### 6.1.1.2.1 Test Bandwidth = 1.4

##### 6.1.1.2.1.1 Test Channel = LCH

##### 6.1.1.2.1.1.1 Test RB = RB1#0

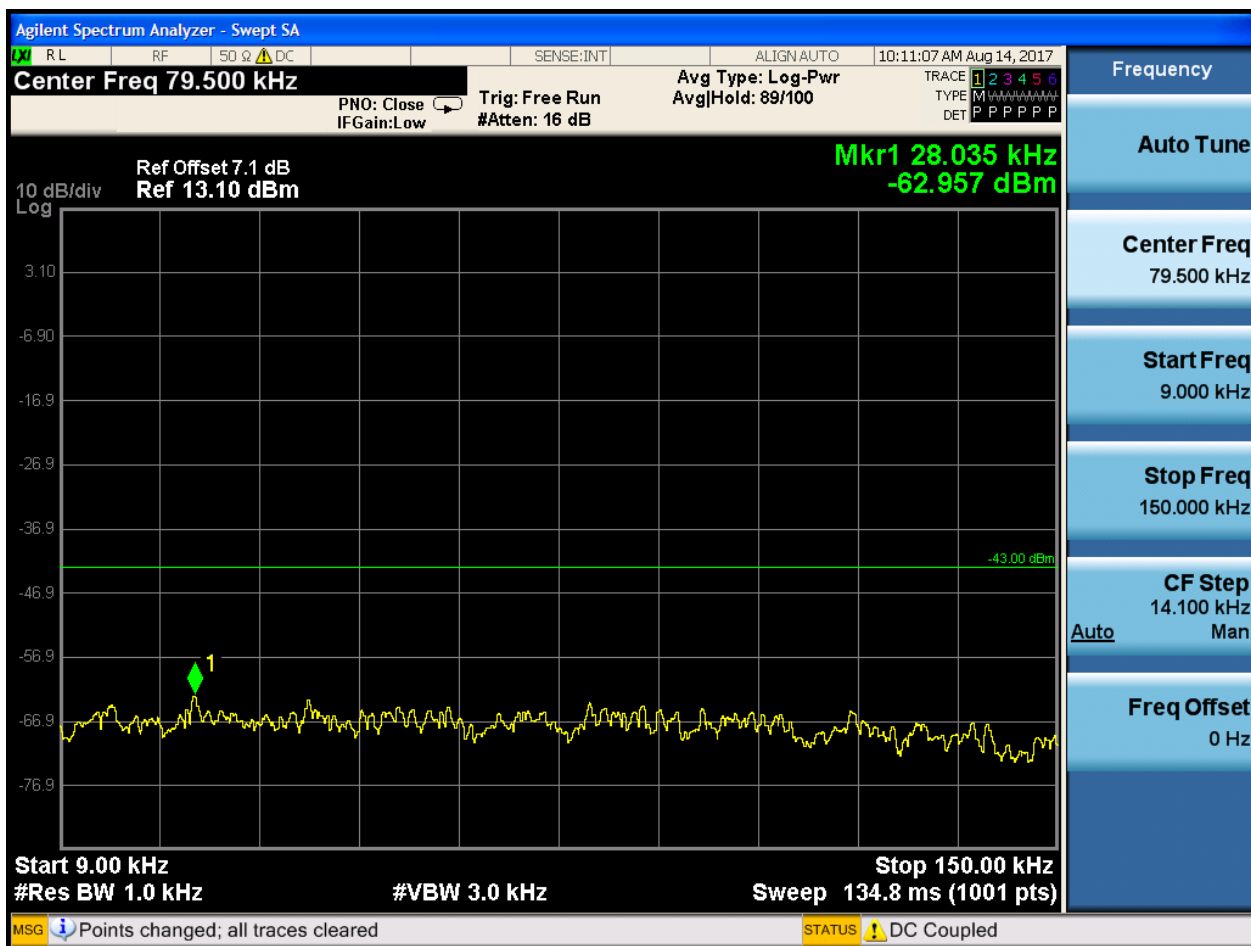


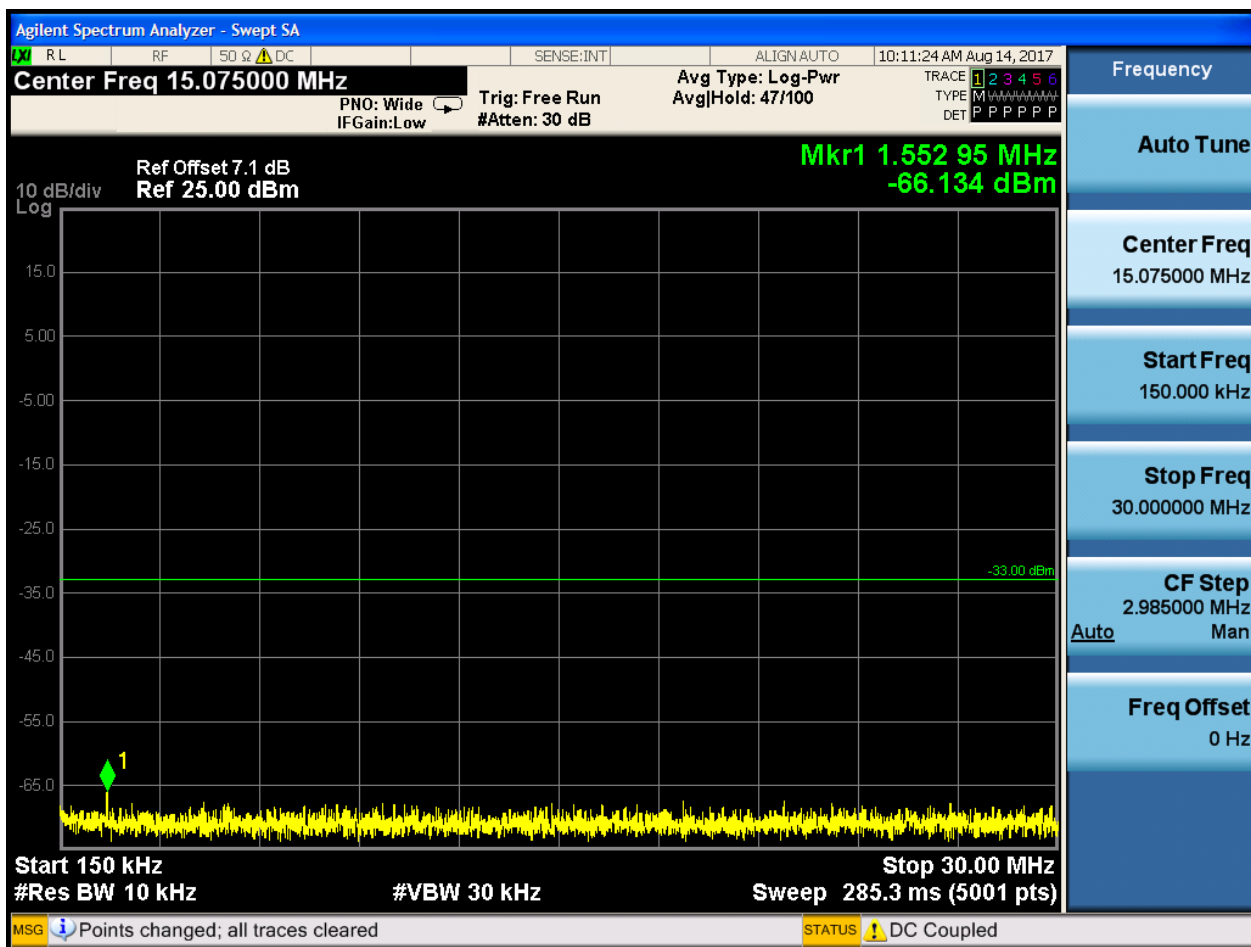


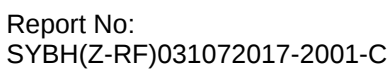


### 6.1.1.2.1.2 Test Channel = MCH

#### 6.1.1.2.1.2.1 Test RB = RB1#0

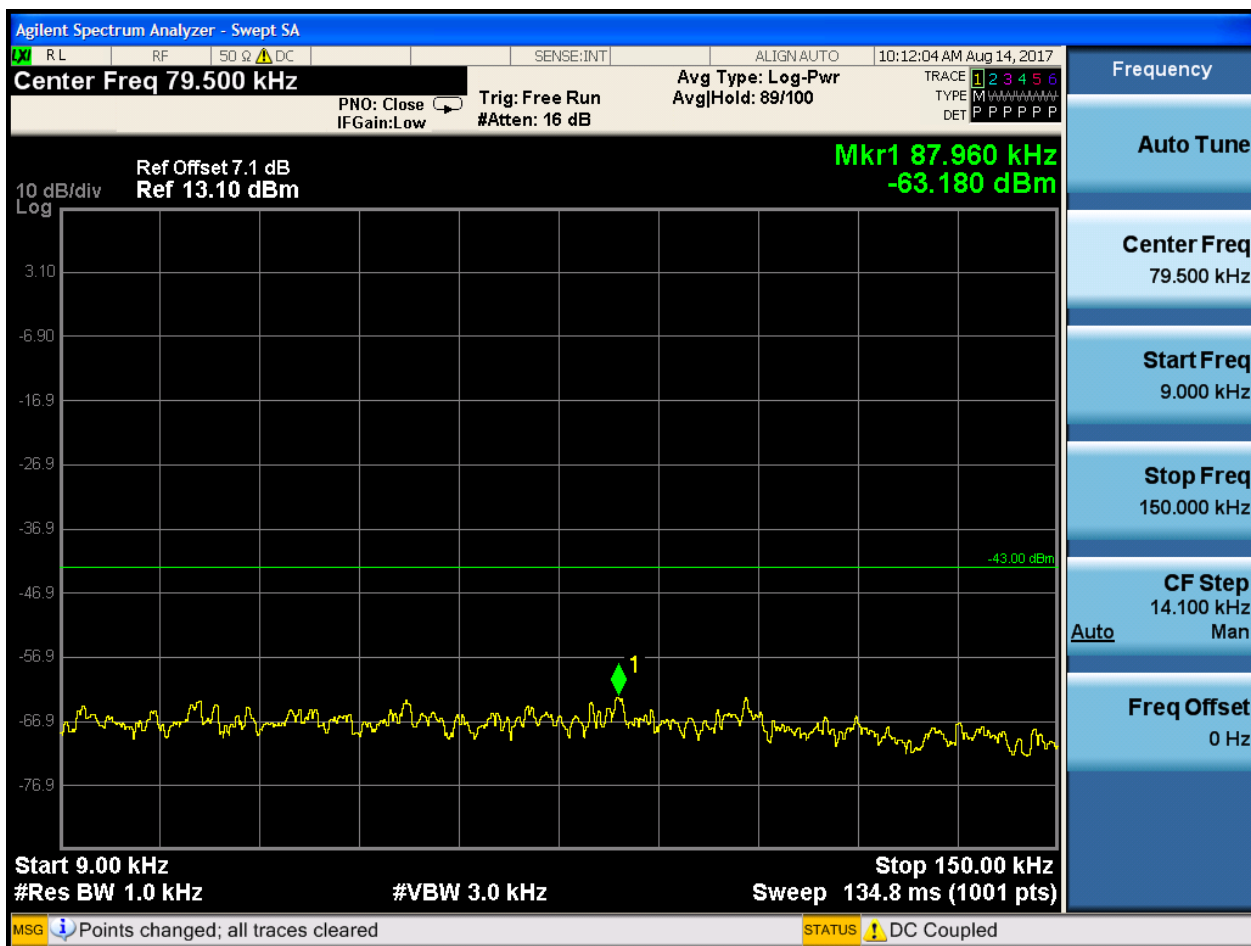


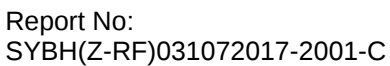


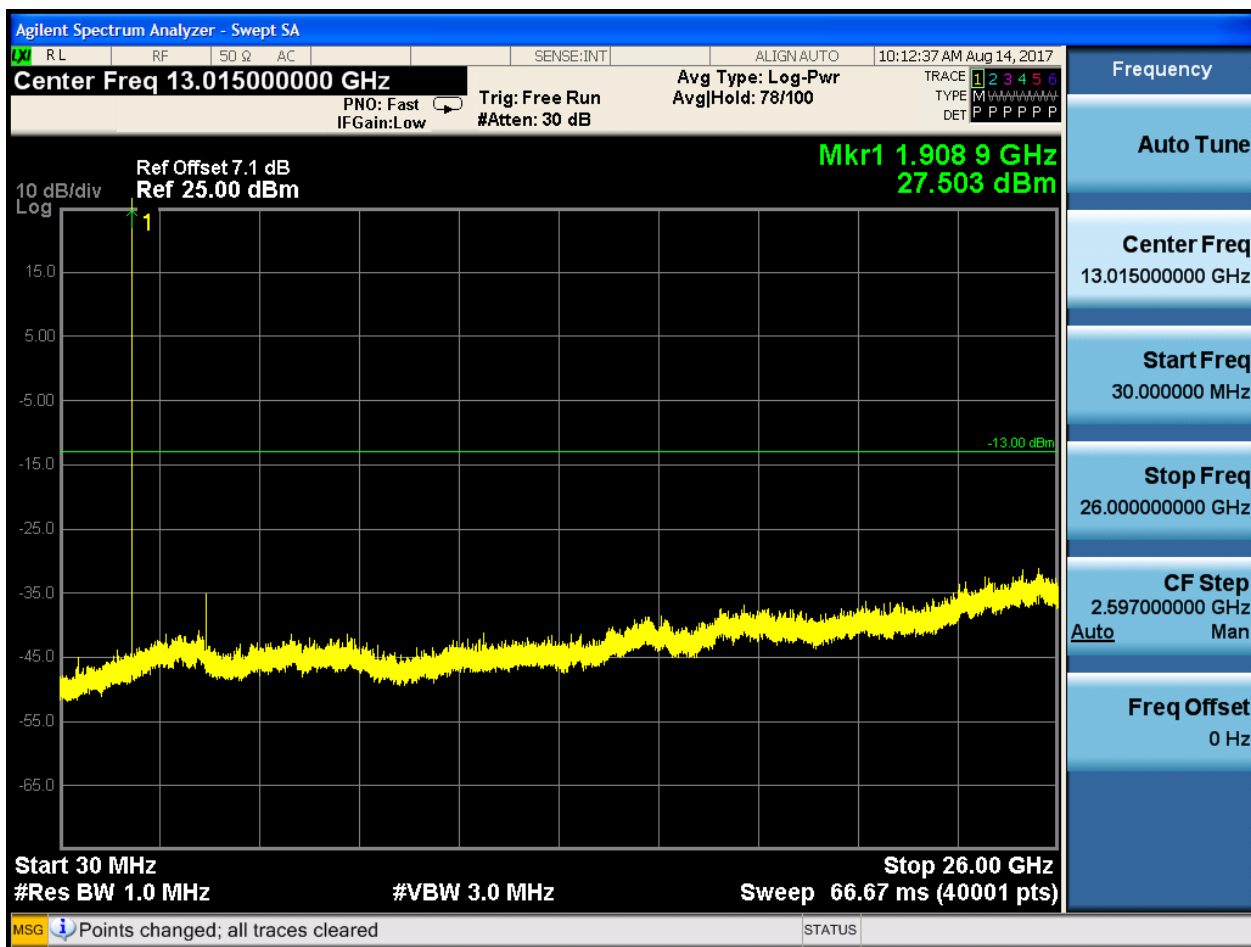


### 6.1.1.2.1.3 Test Channel = HCH

#### 6.1.1.2.1.3.1 Test RB = RB1#0



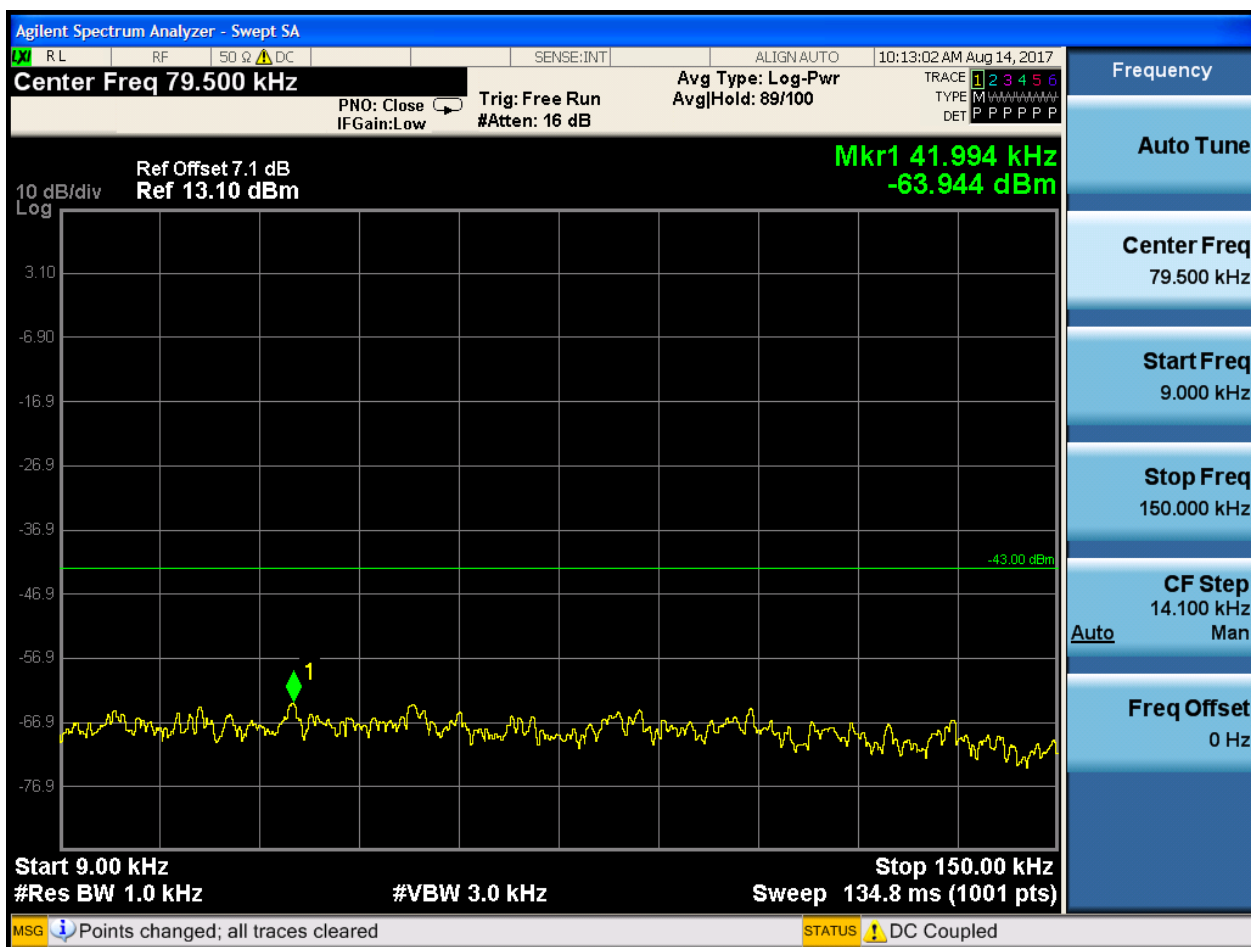


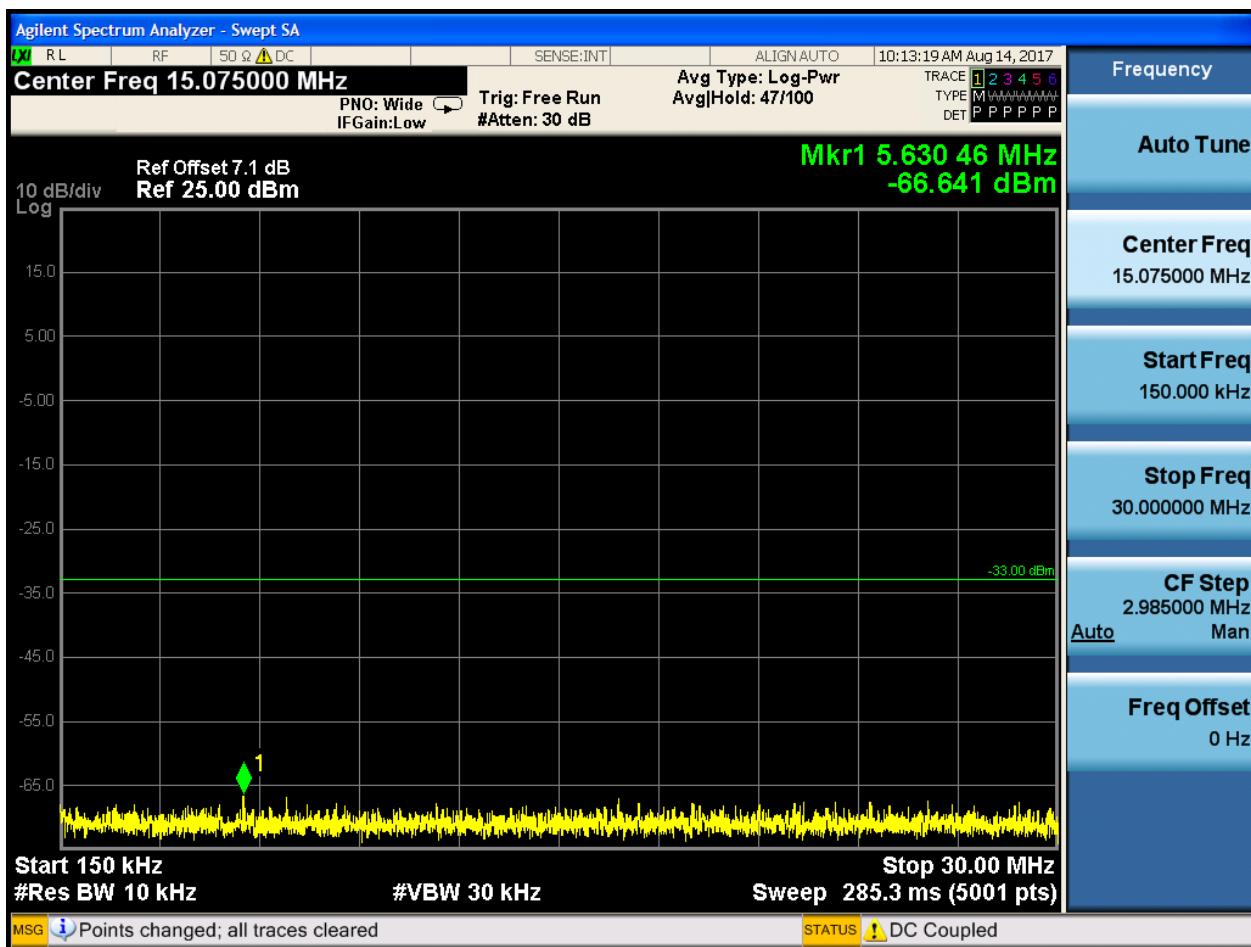


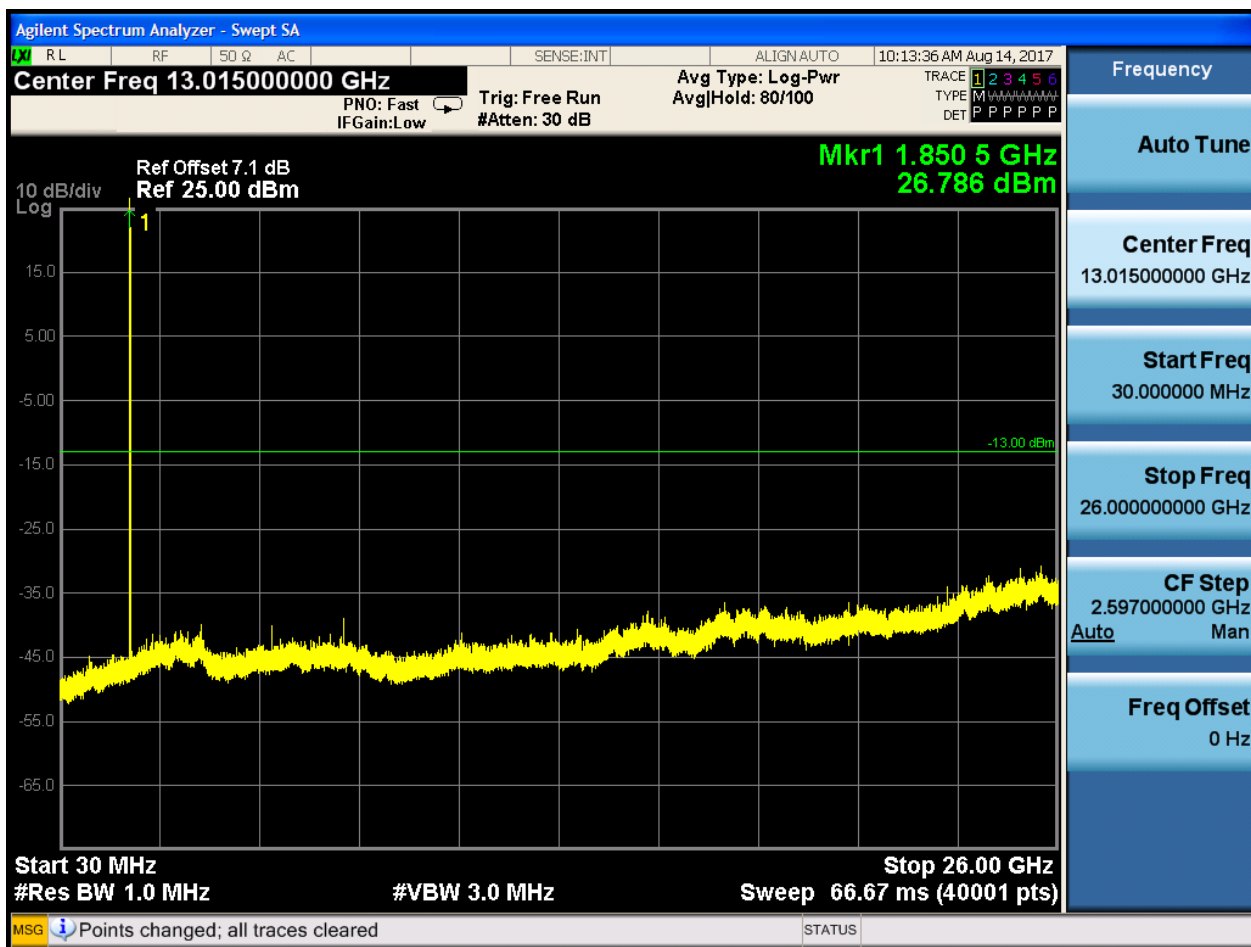
### 6.1.1.2.2 Test Bandwidth = 3

#### 6.1.1.2.2.1 Test Channel = LCH

##### 6.1.1.2.2.1.1 Test RB = RB1#0

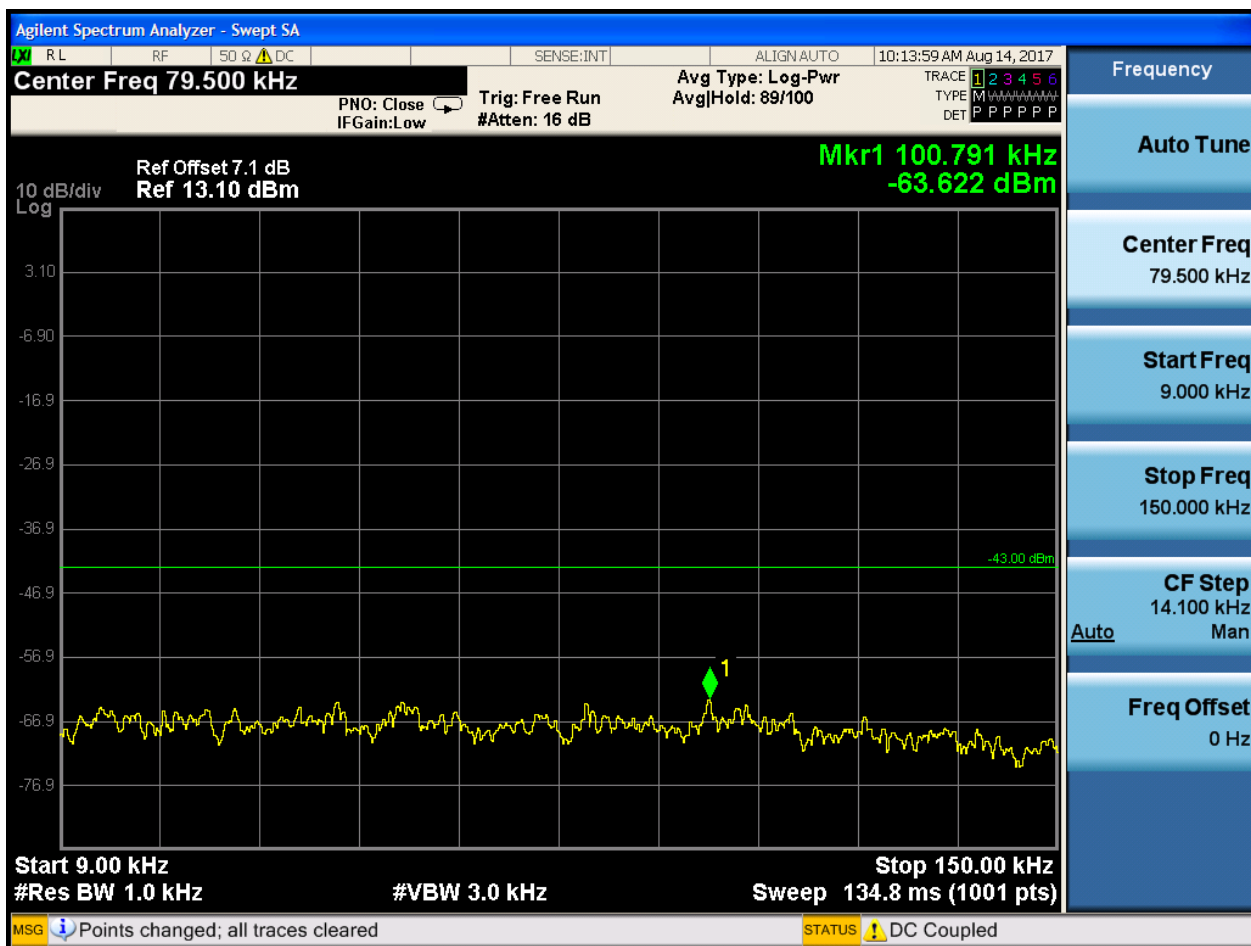


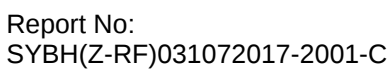


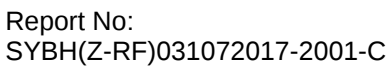


### 6.1.1.2.2.2 Test Channel = MCH

#### 6.1.1.2.2.2.1 Test RB = RB1#0

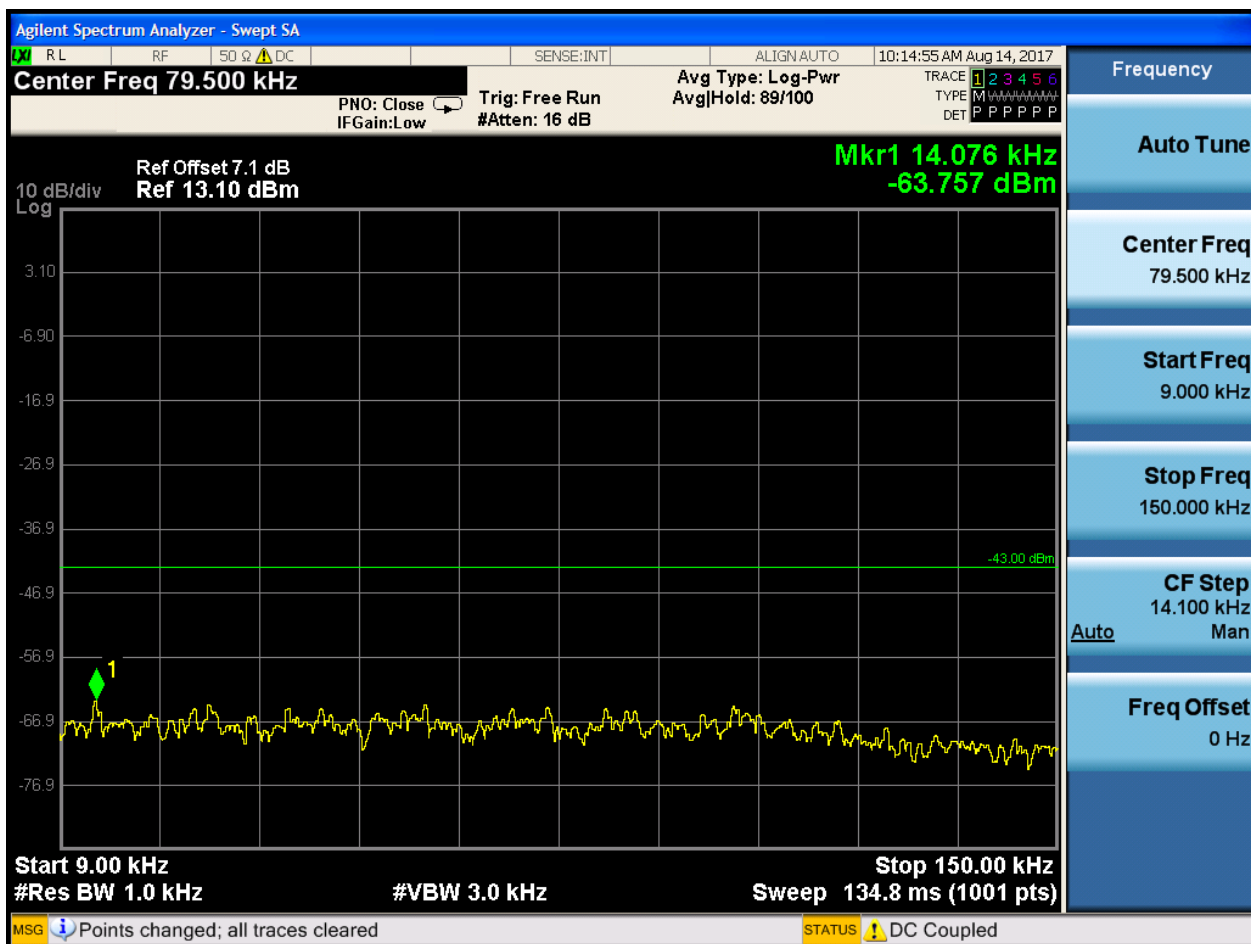




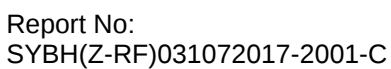


### 6.1.1.2.2.3 Test Channel = HCH

#### 6.1.1.2.2.3.1 Test RB = RB1#0



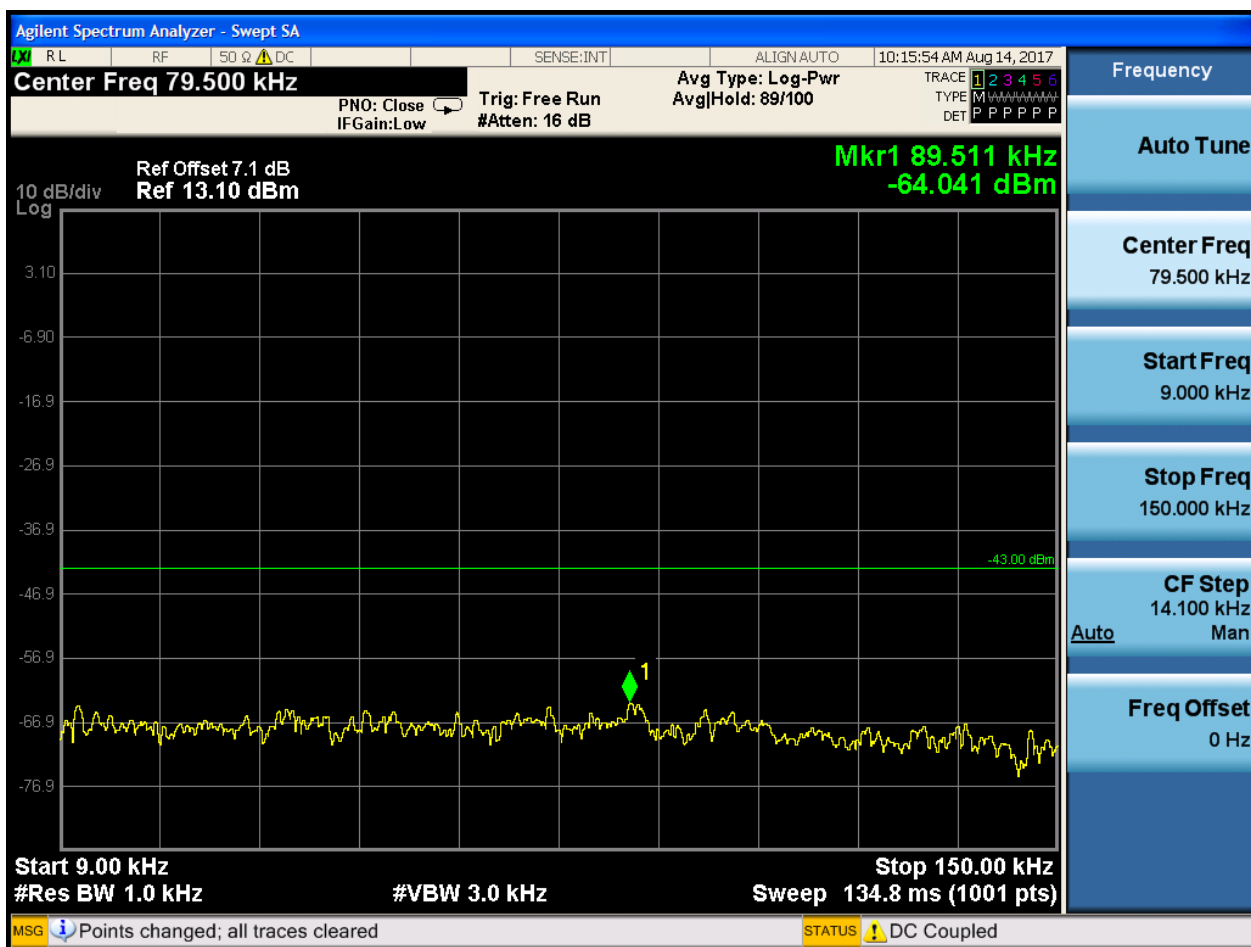


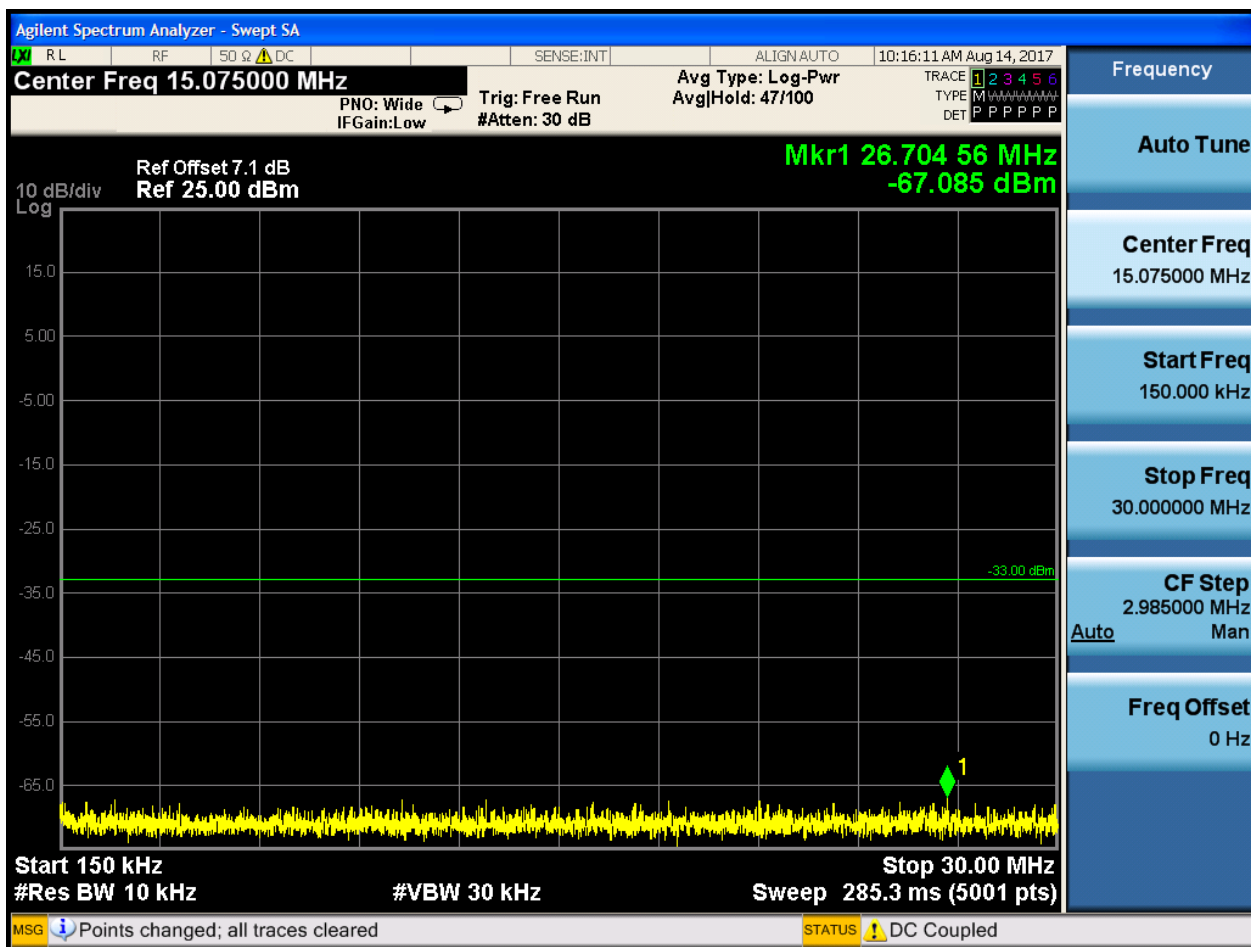


### 6.1.1.2.3 Test Bandwidth = 5

#### 6.1.1.2.3.1 Test Channel = LCH

##### 6.1.1.2.3.1.1 Test RB = RB1#0

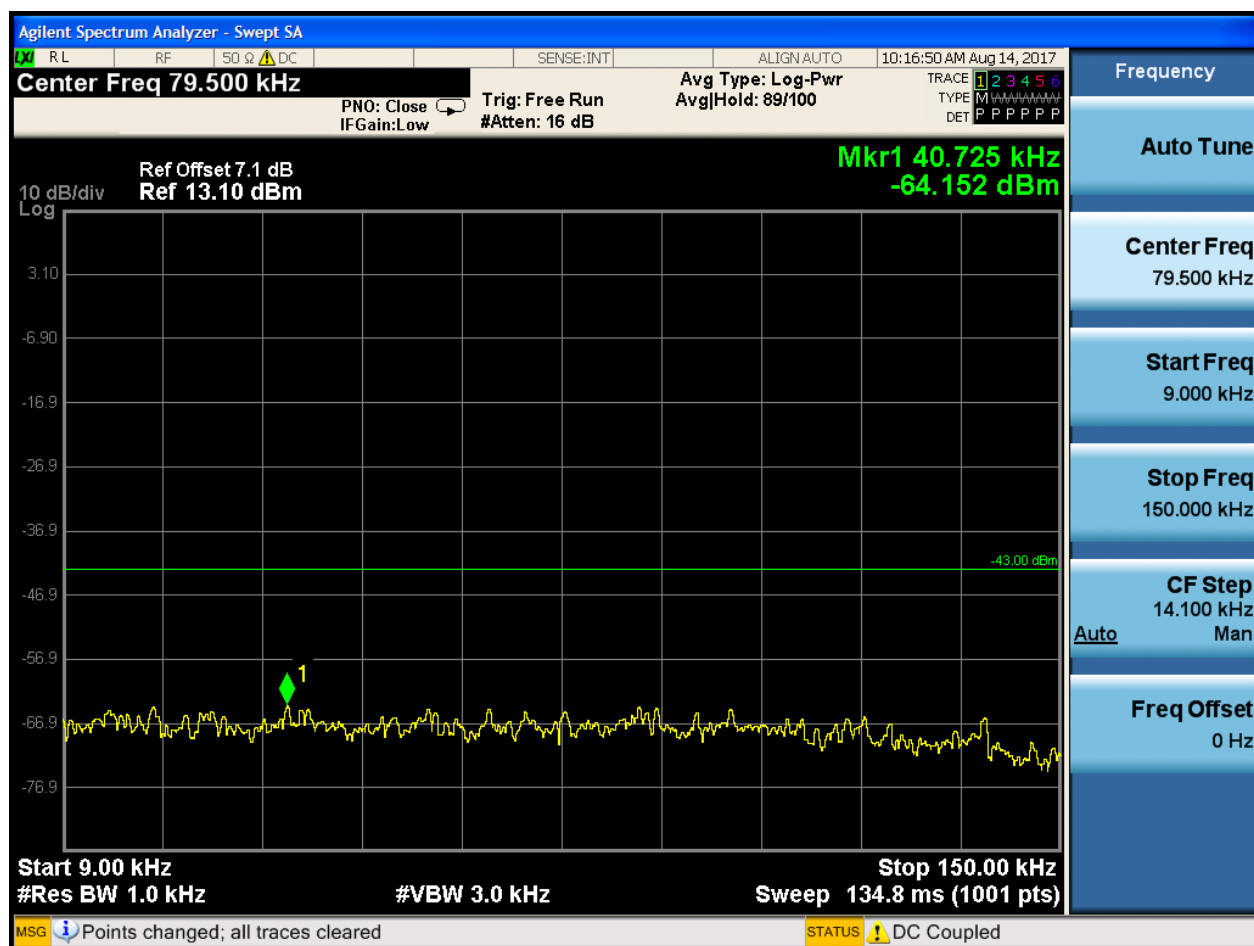


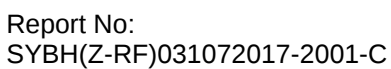


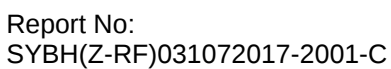


#### 6.1.1.2.3.2 Test Channel = MCH

#### 6.1.1.2.3.2.1 Test RB = RB1#0

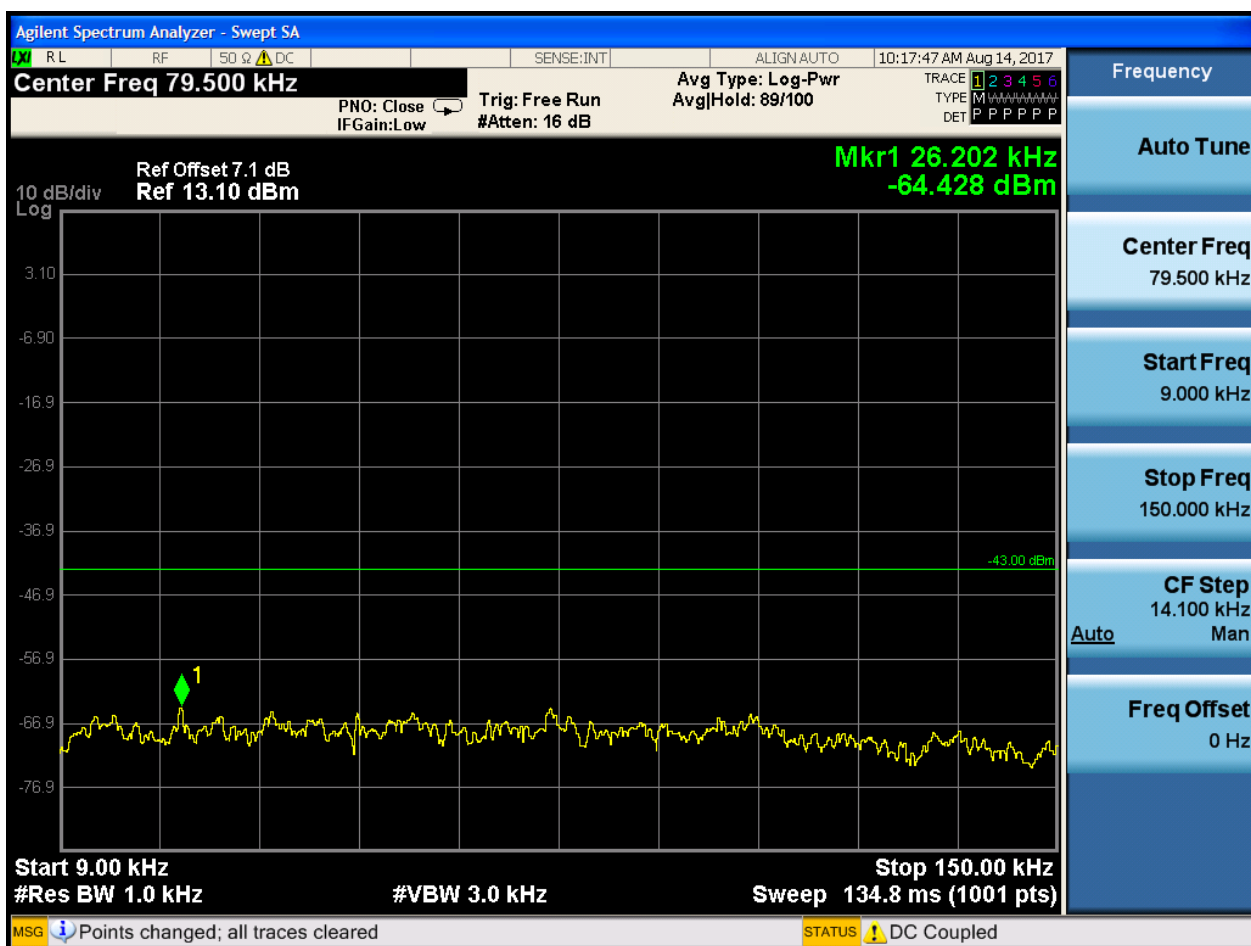


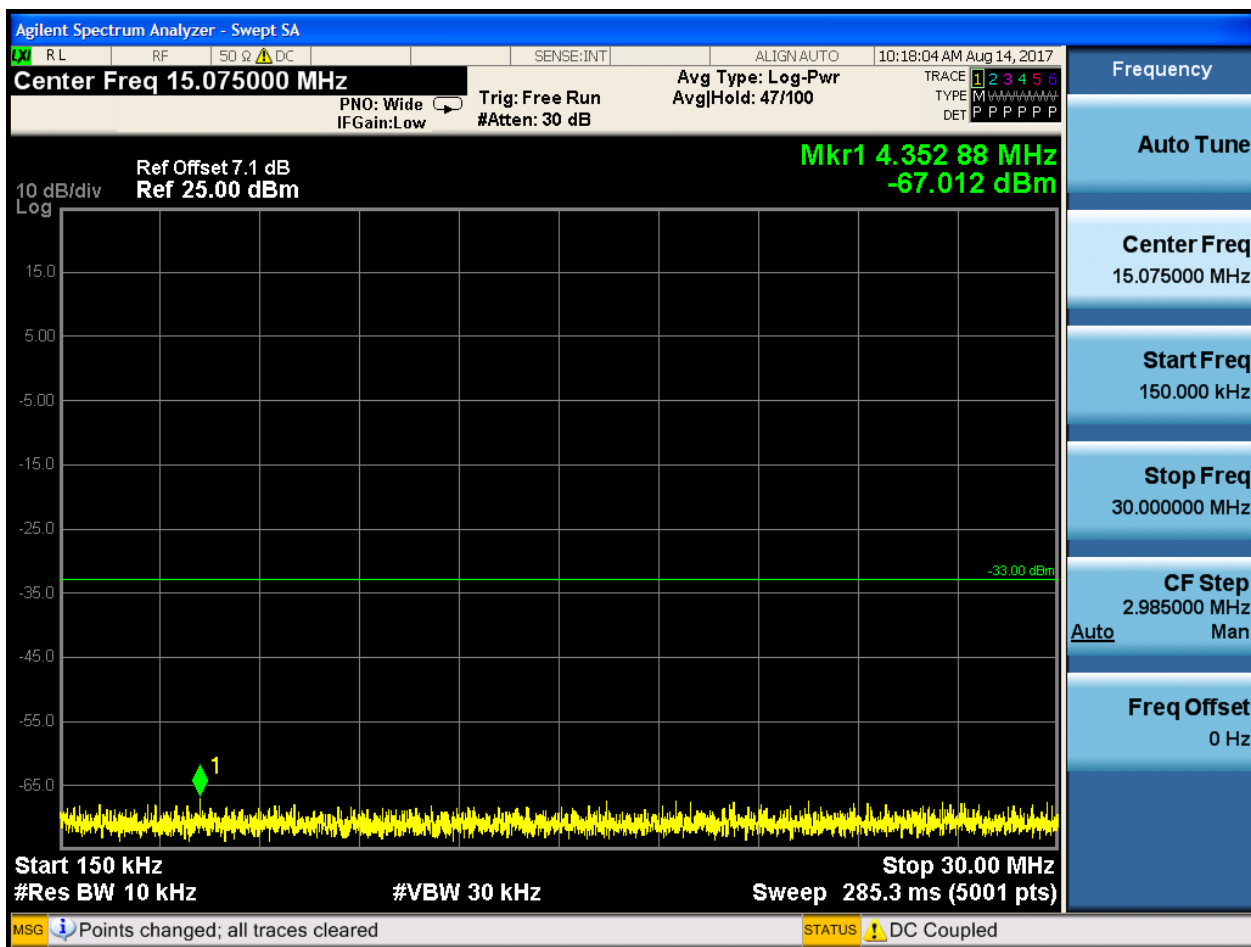


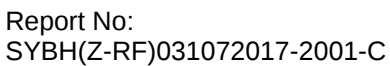


### 6.1.1.2.3.3 Test Channel = HCH

#### 6.1.1.2.3.3.1 Test RB = RB1#0



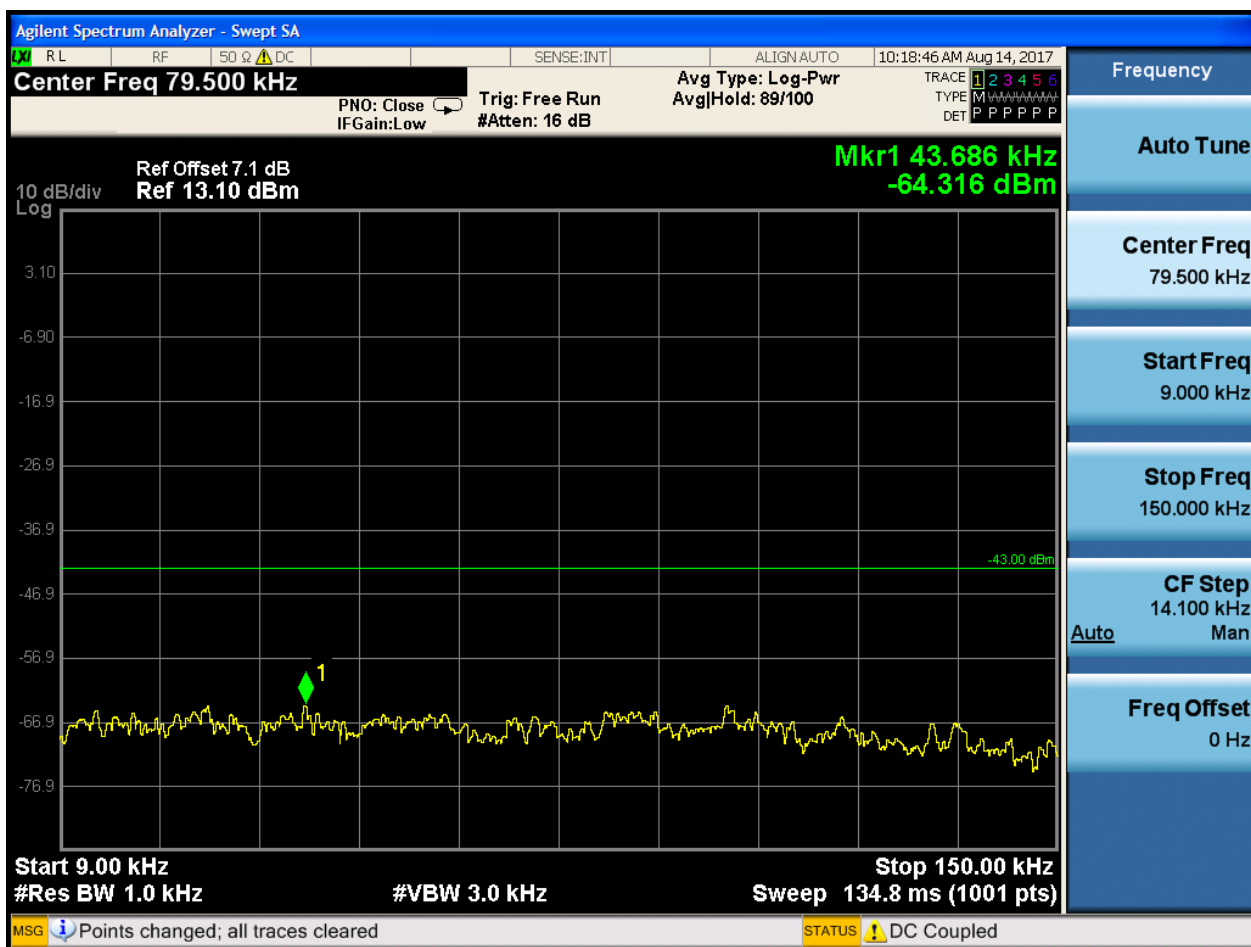


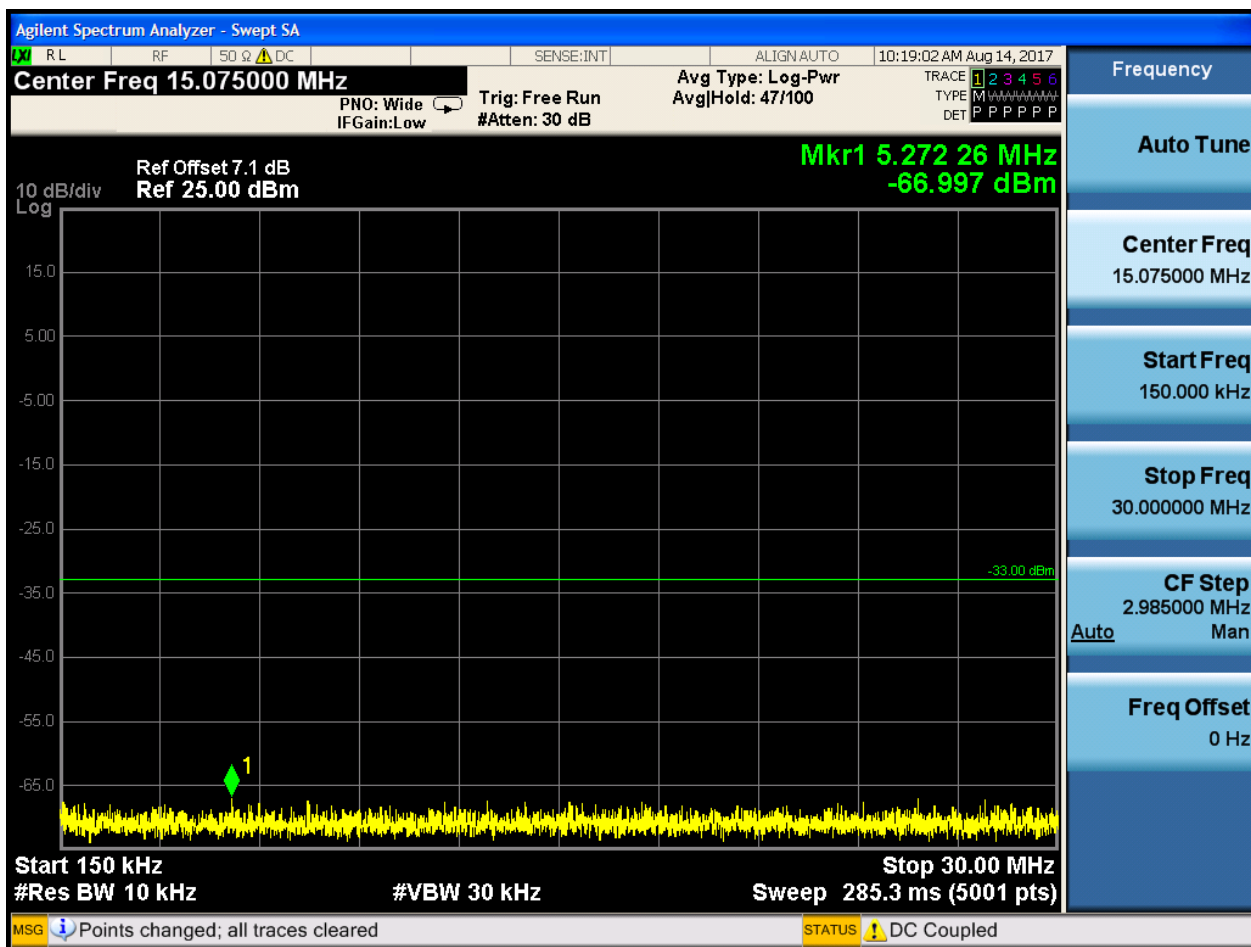


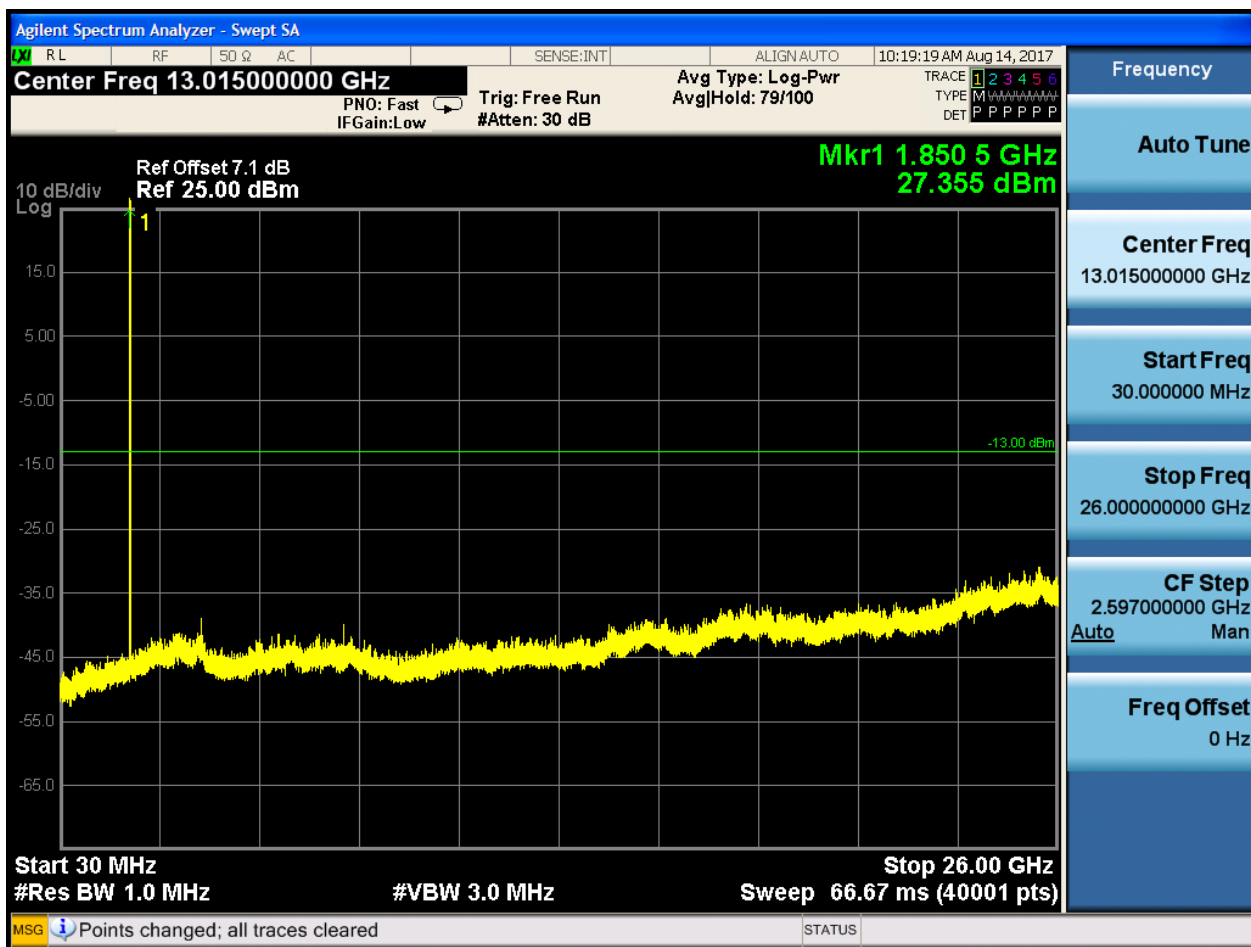
#### 6.1.1.2.4 Test Bandwidth = 10

##### 6.1.1.2.4.1 Test Channel = LCH

##### 6.1.1.2.4.1.1 Test RB = RB1#0



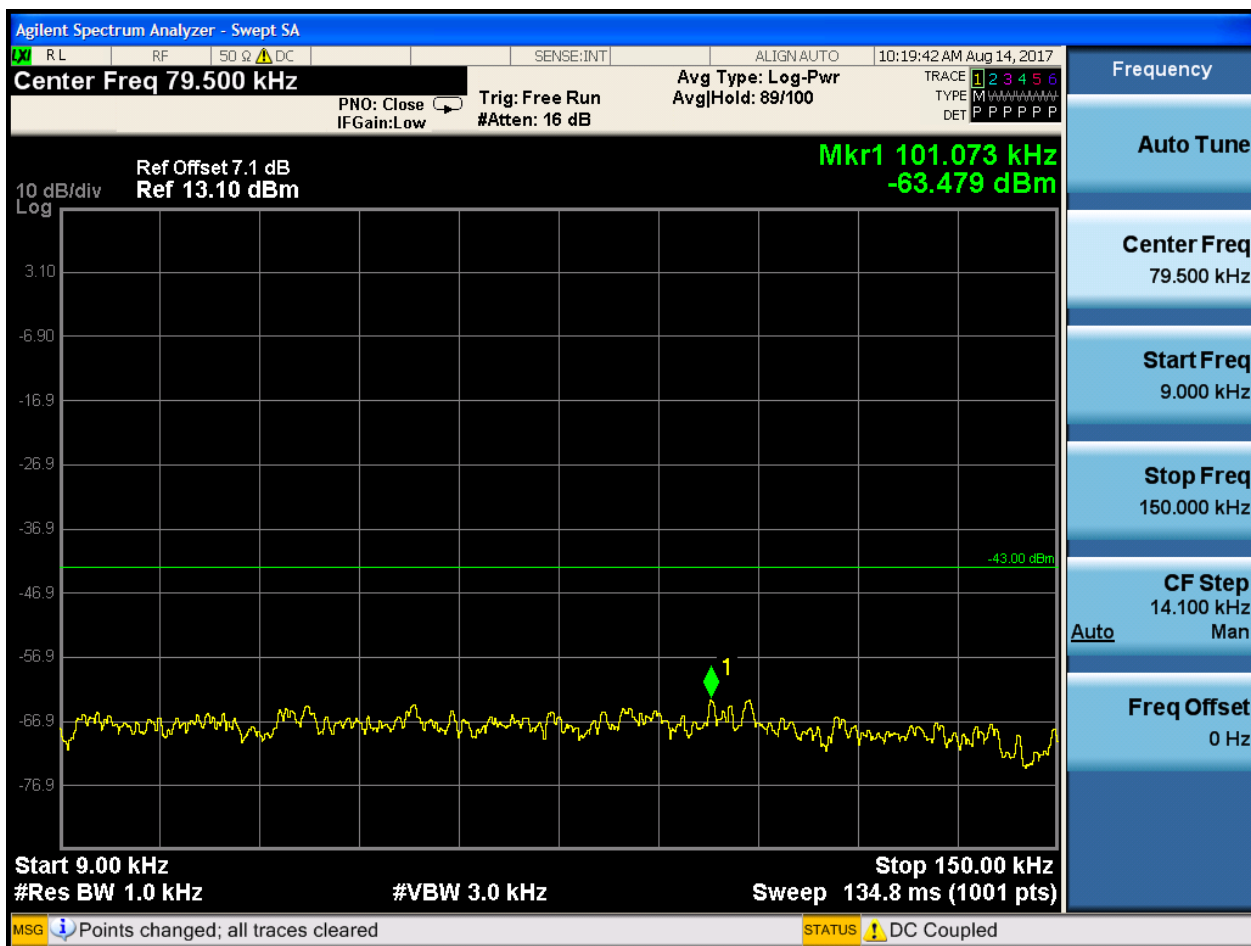


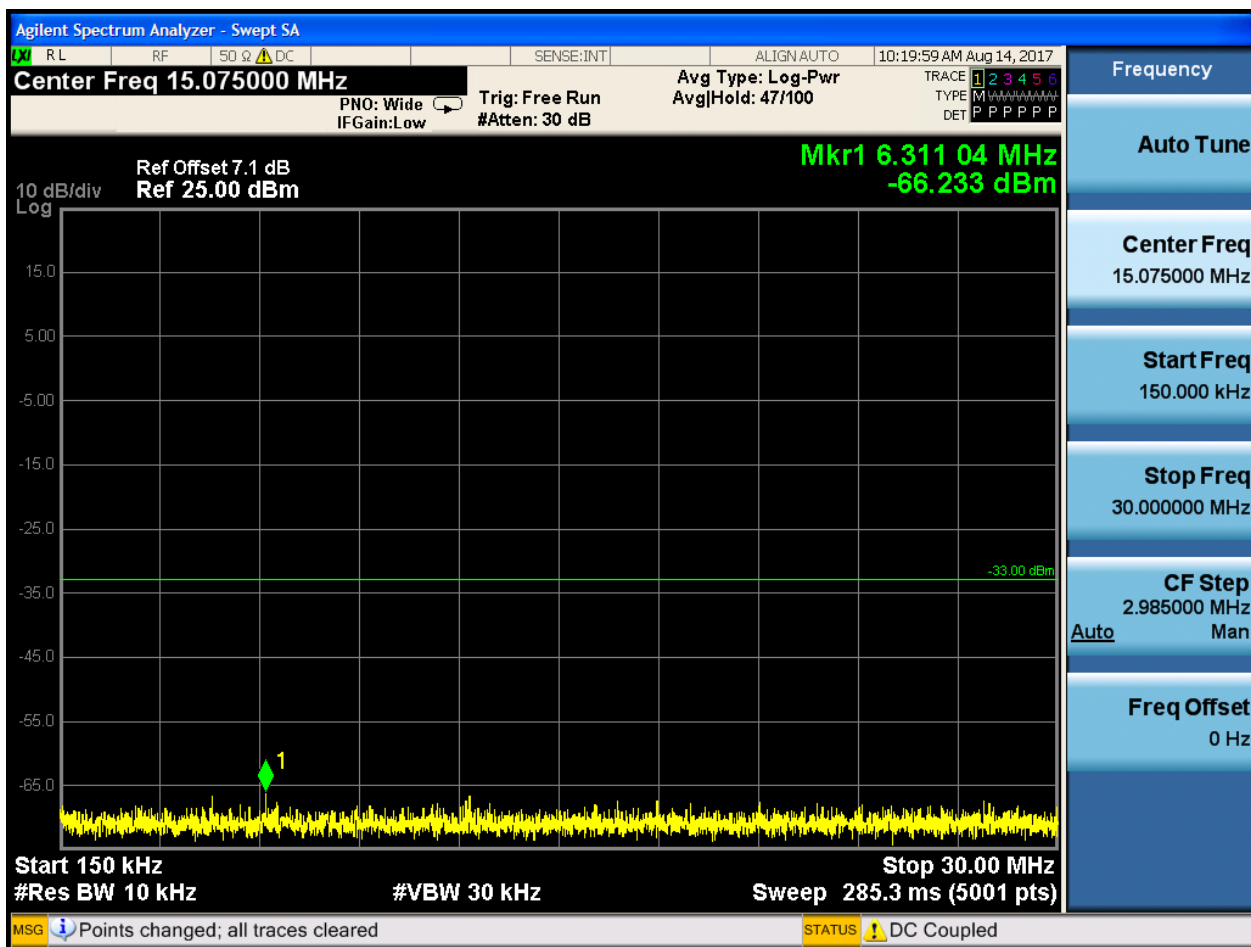


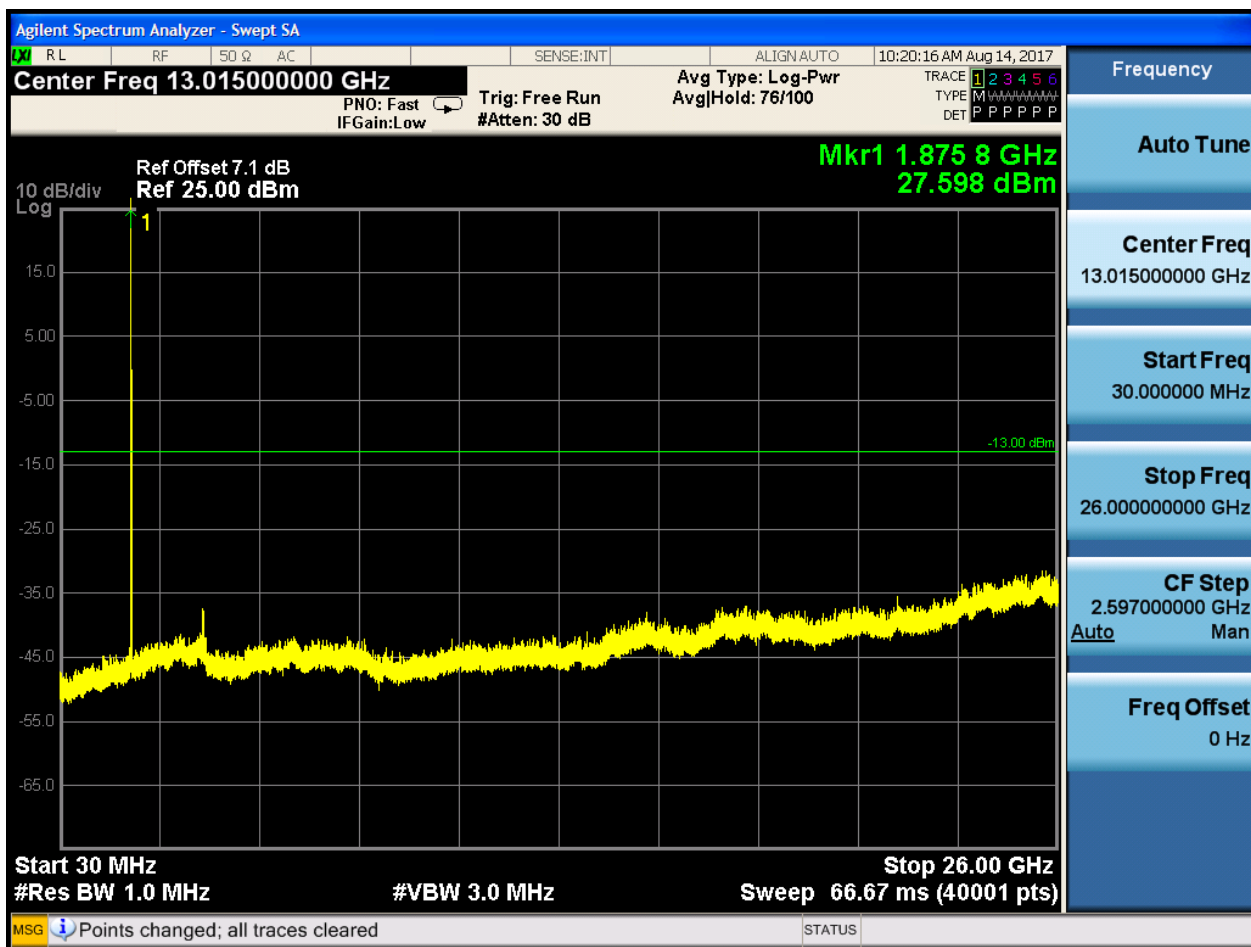


## 6.1.1.2.4.2 Test Channel = MCH

## 6.1.1.2.4.2.1 Test RB = RB1#0



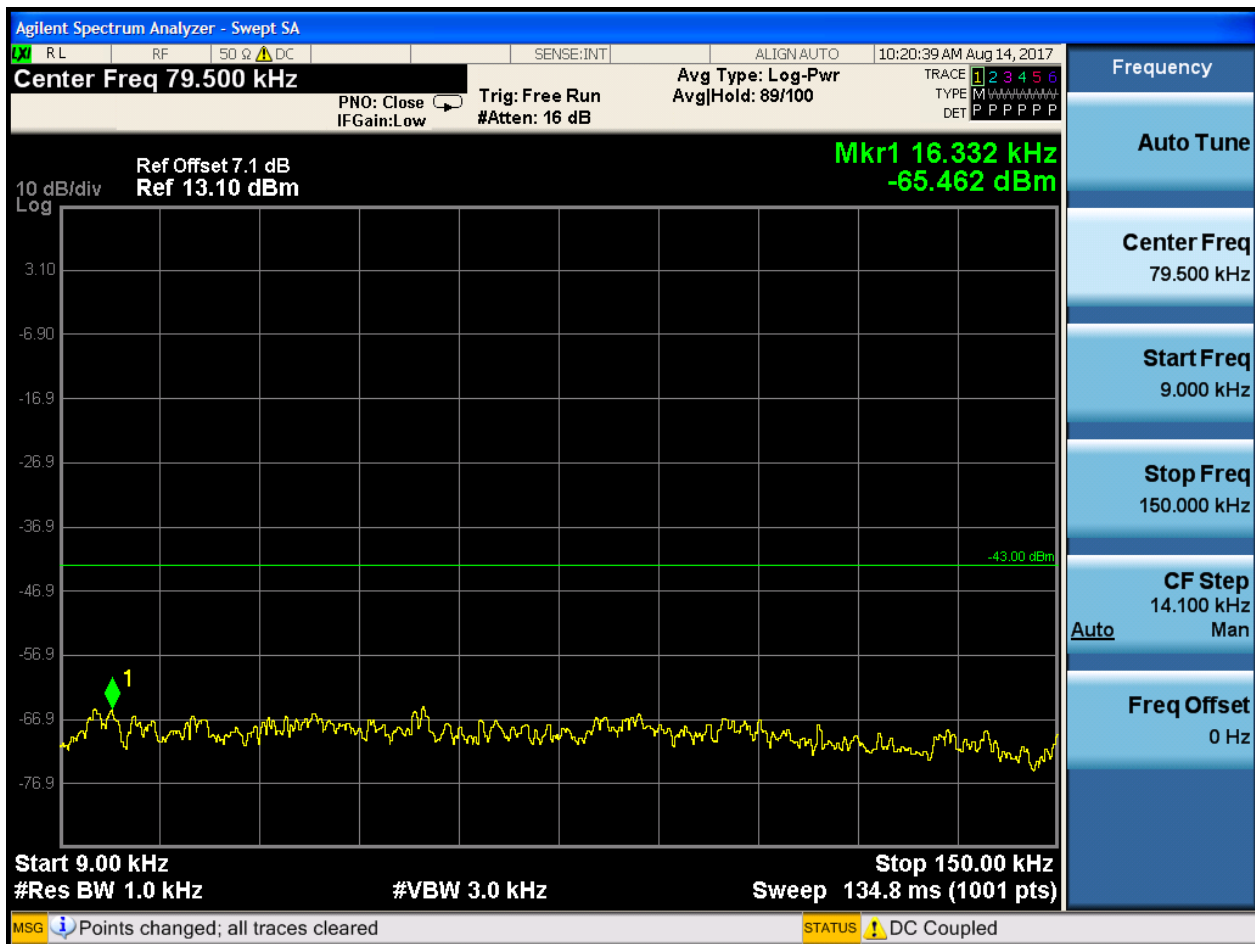


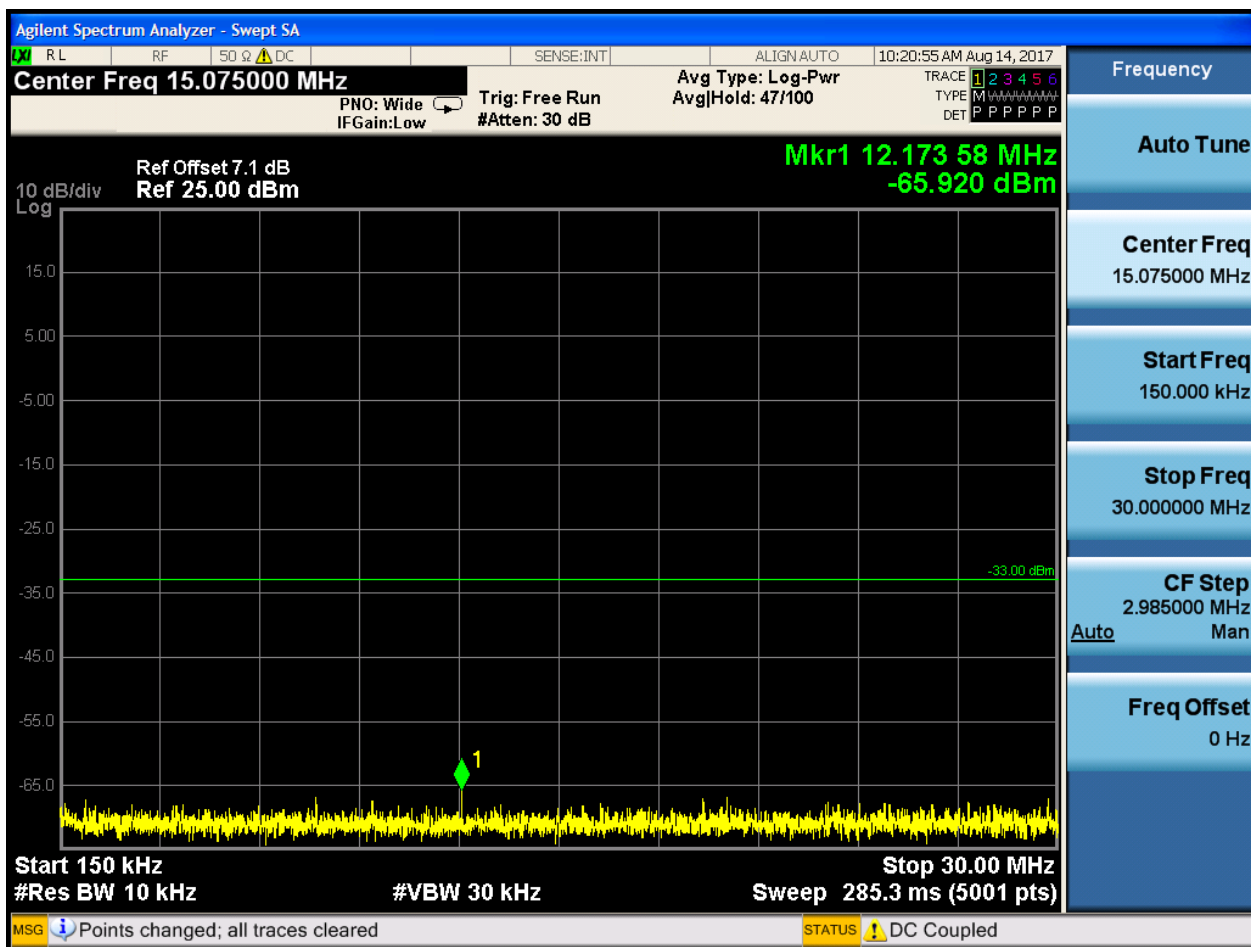


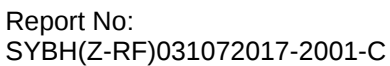


## 6.1.1.2.4.3 Test Channel = HCH

## 6.1.1.2.4.3.1 Test RB = RB1#0







### 6.1.1.2.5 Test Bandwidth = 15

#### 6.1.1.2.5.1 Test Channel = LCH

##### 6.1.1.2.5.1.1 Test RB = RB1#0

