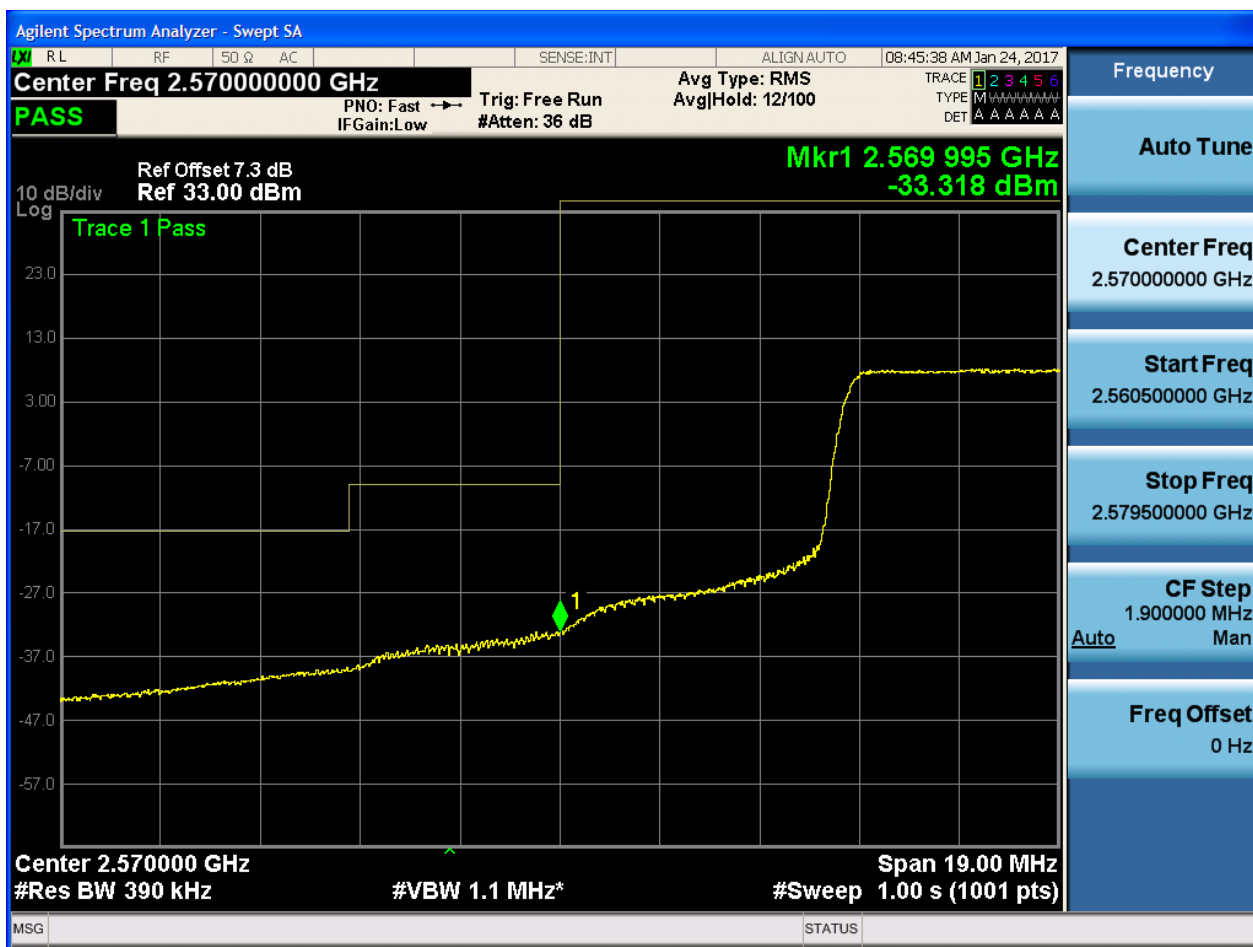


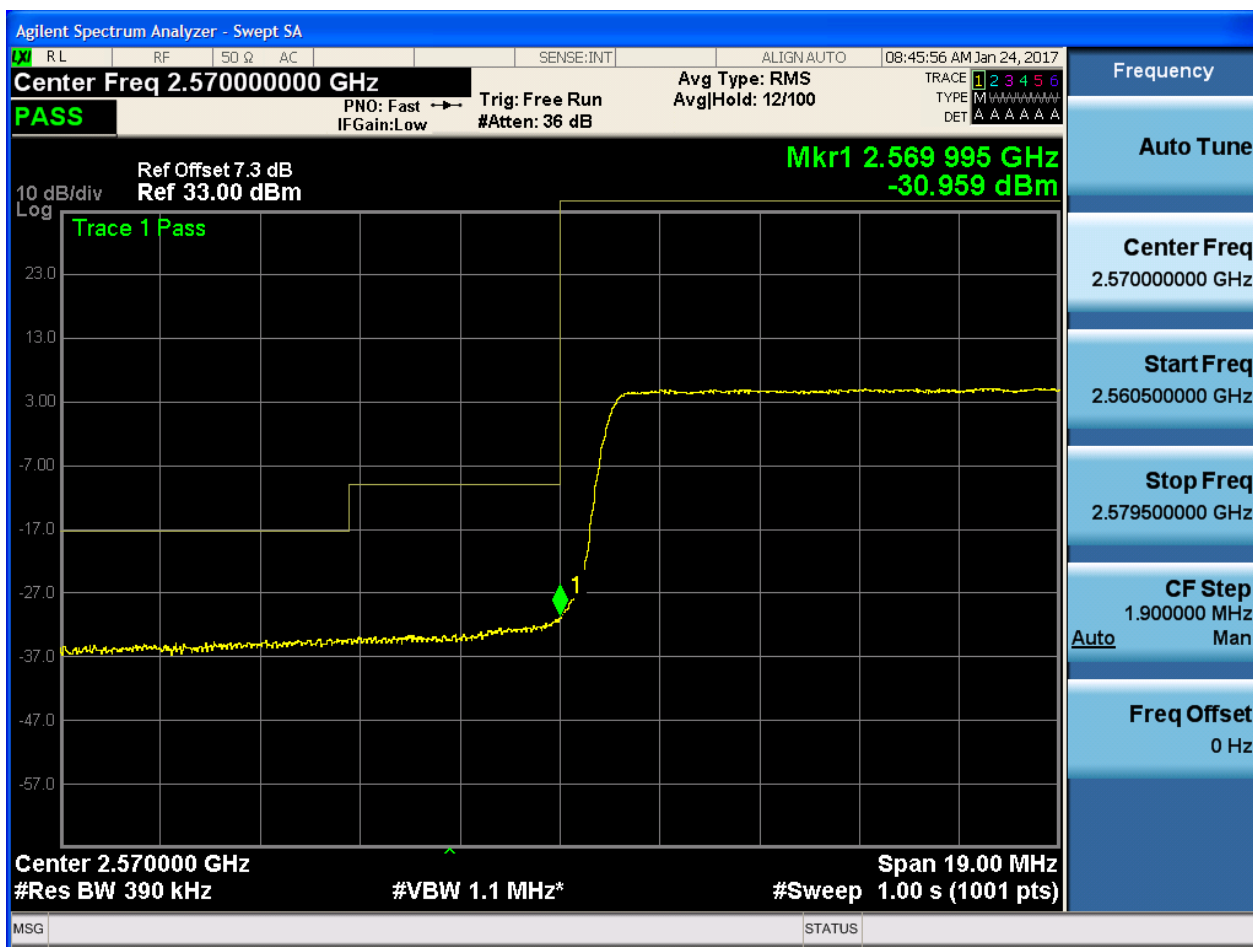


## 5.1.1.2.4.1.3 Test RB = RB50#25





## 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



## 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

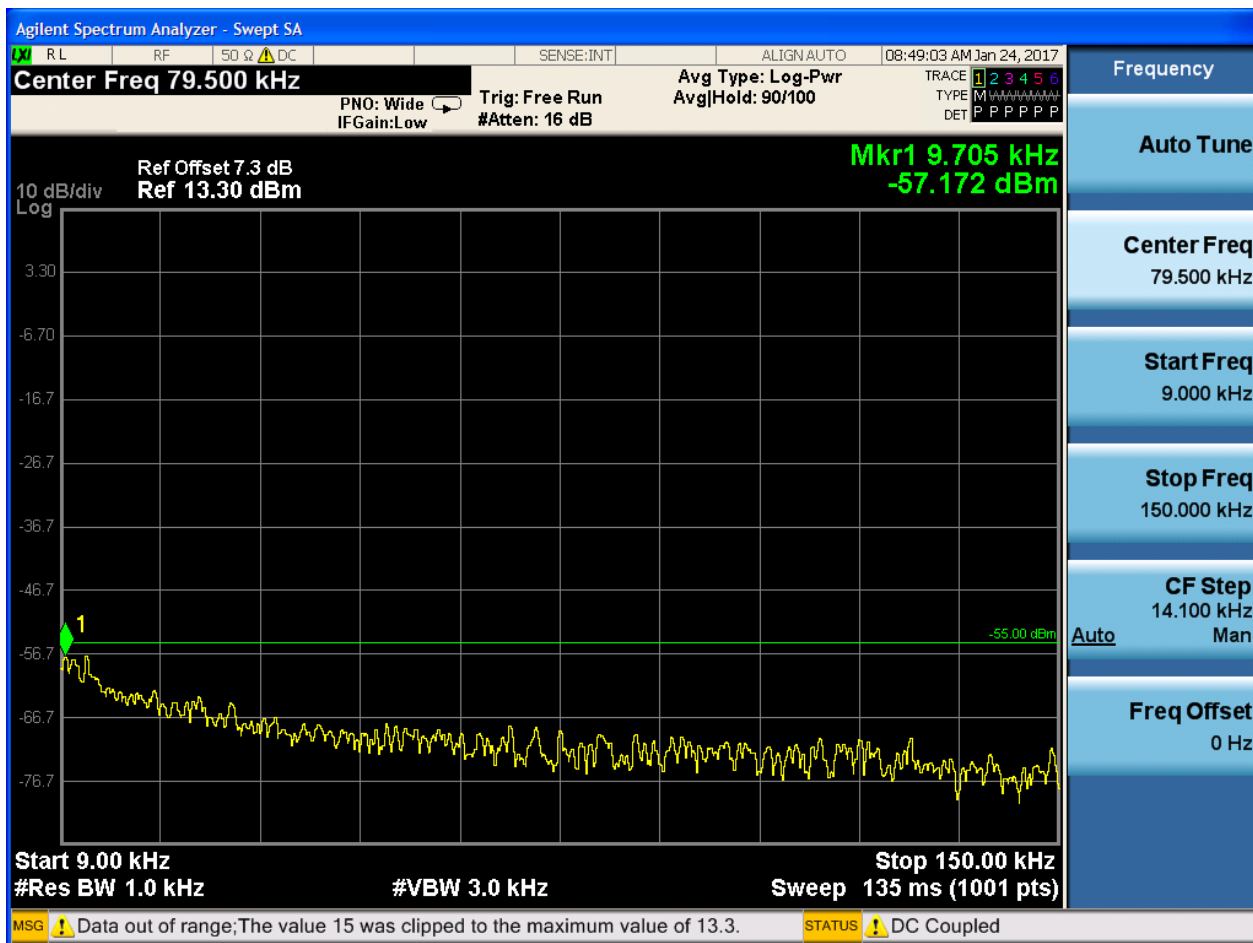
##### 6.1.1 Test Band = BAND38

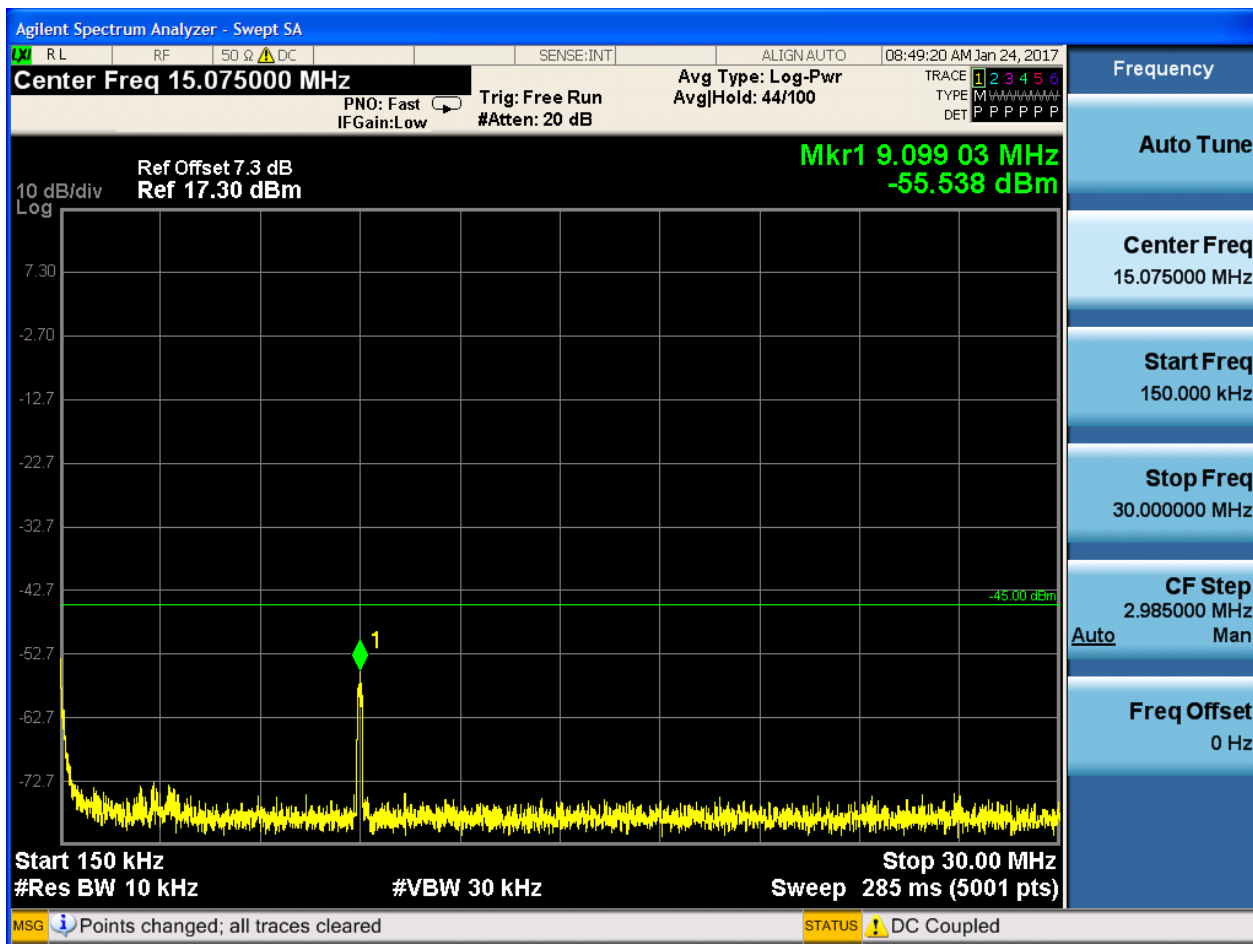
##### 6.1.1.1 Test Mode = LTE/TM1

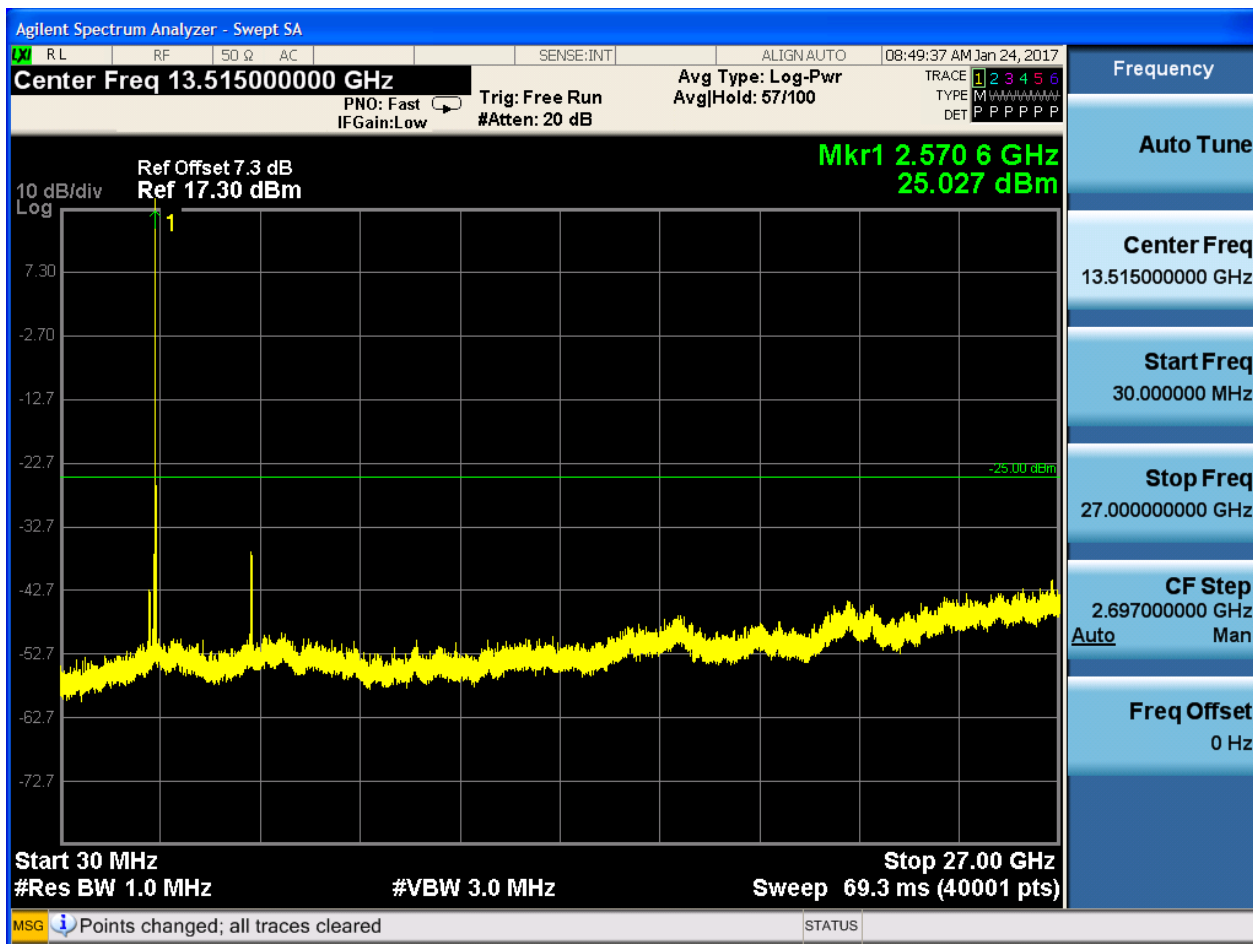
##### 6.1.1.1.1 Test Bandwidth = 5

##### 6.1.1.1.1.1 Test Channel = LCH

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



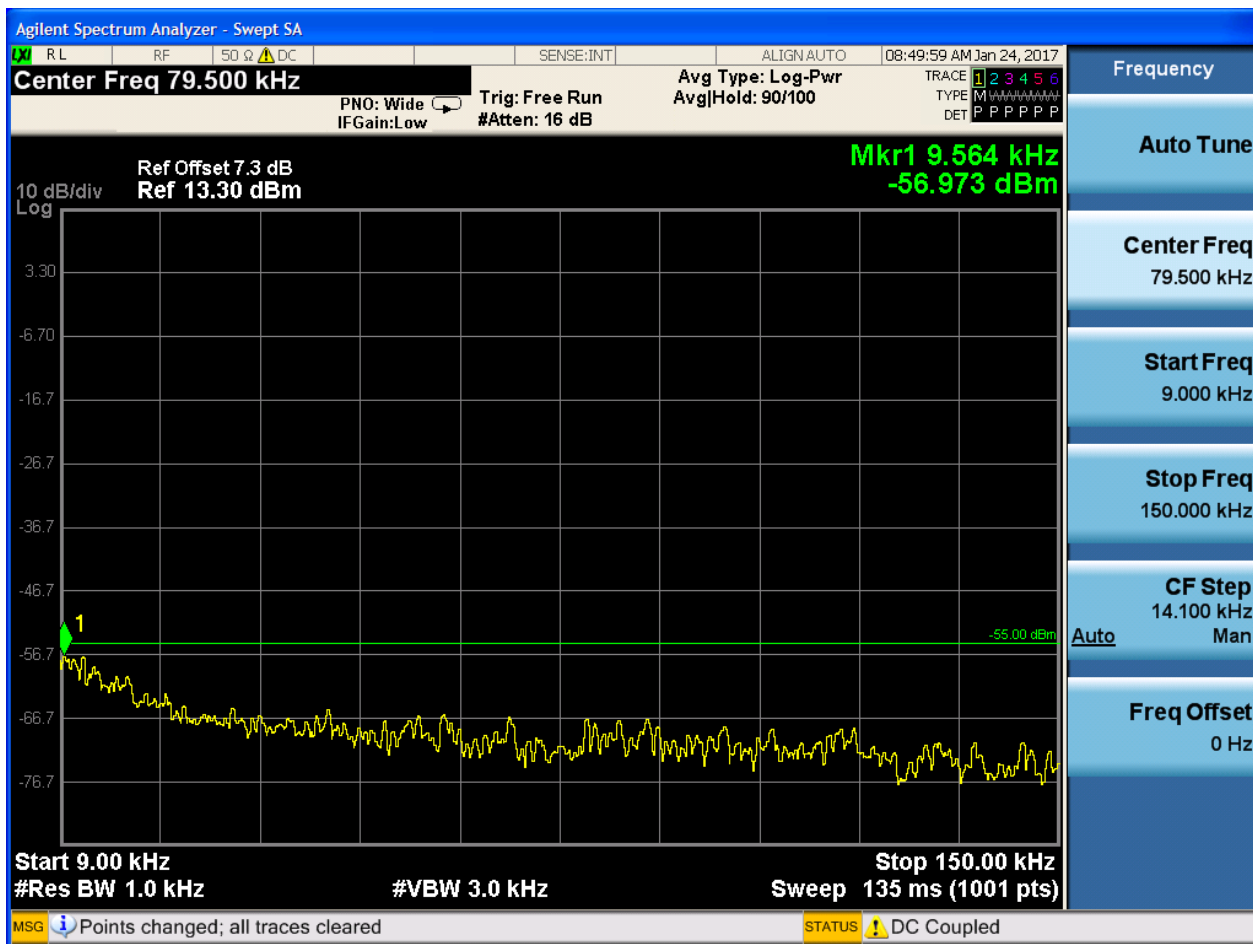


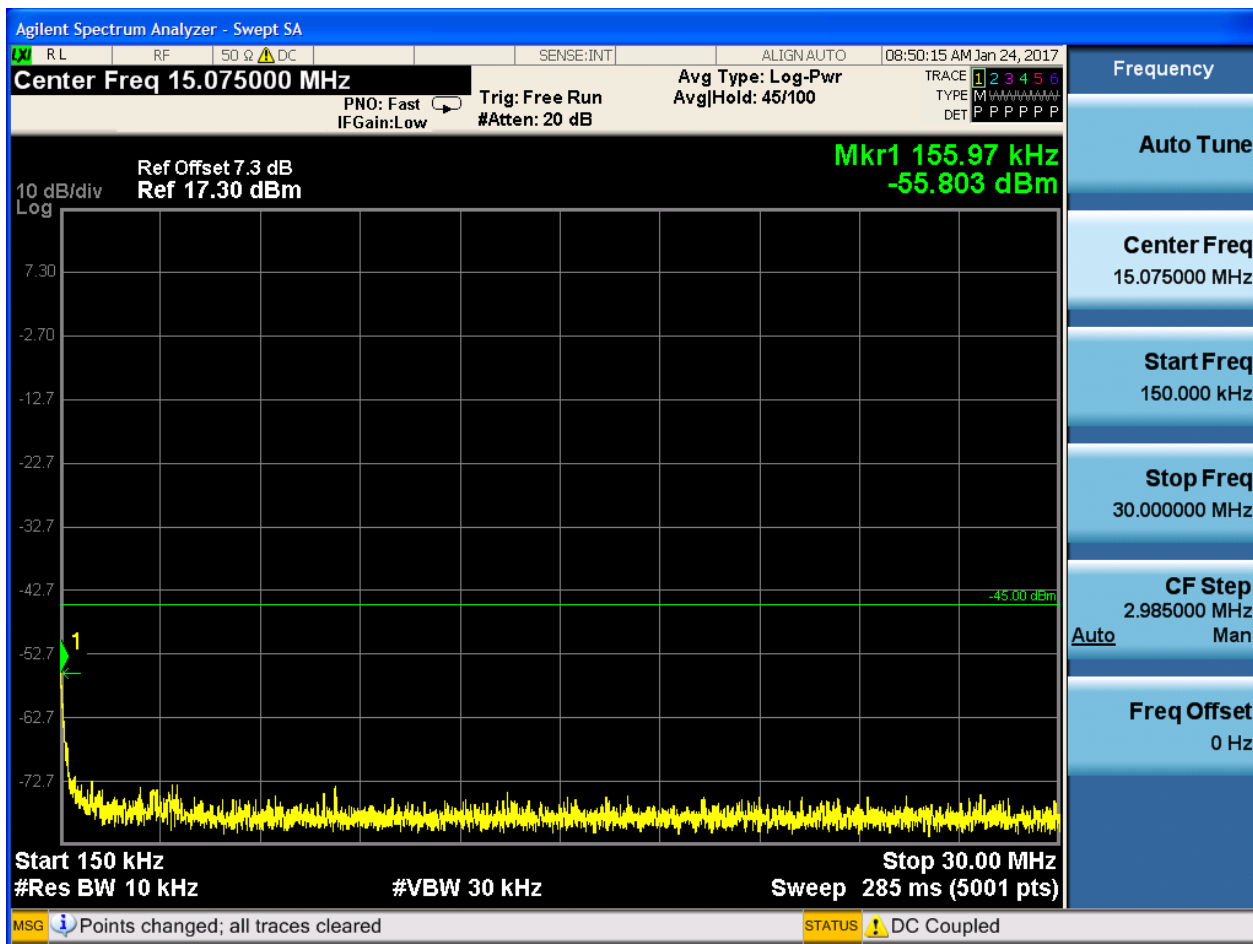




## 6.1.1.1.1.2 Test Channel = MCH

## 6.1.1.1.1.2.1 Test RB = RB1#0

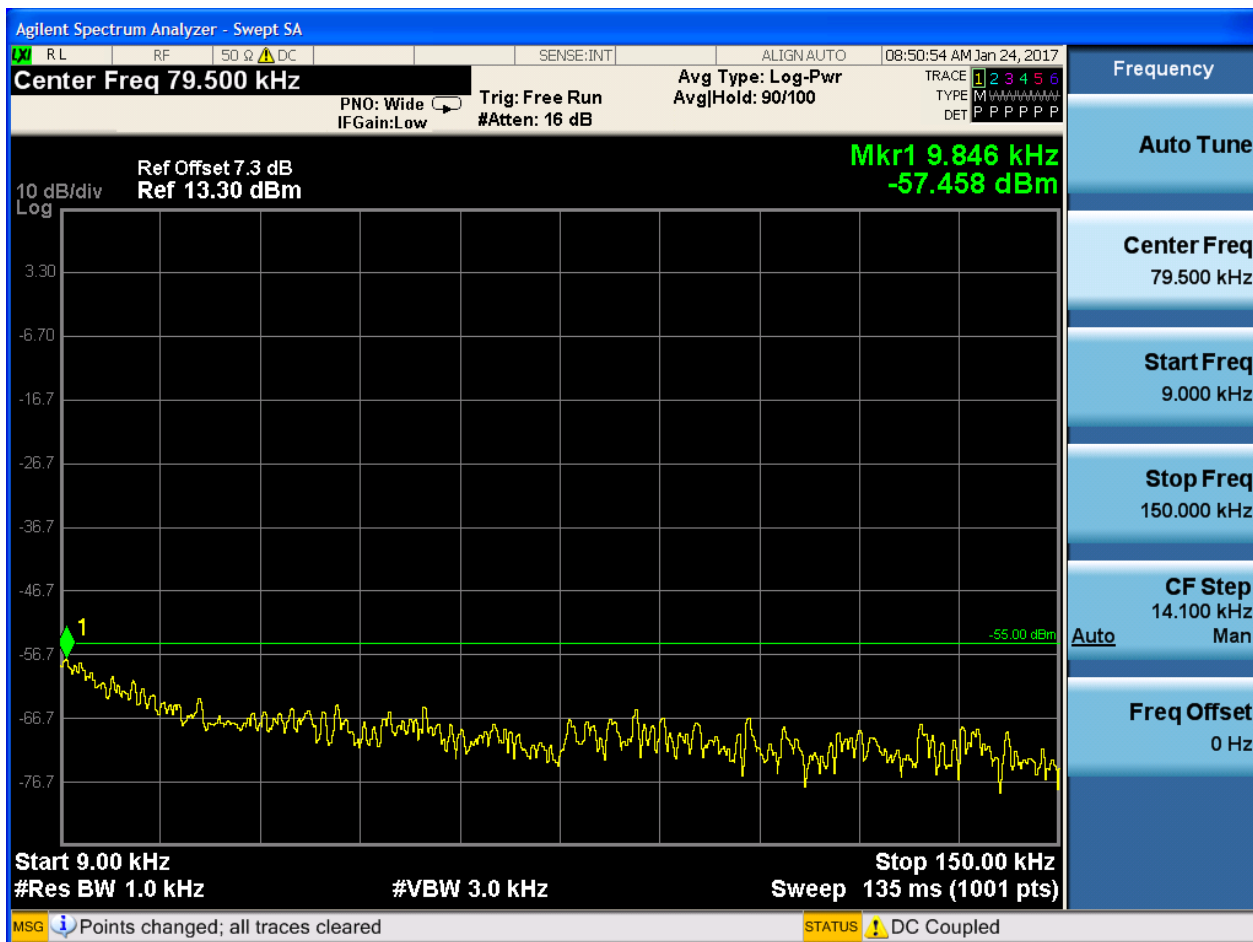


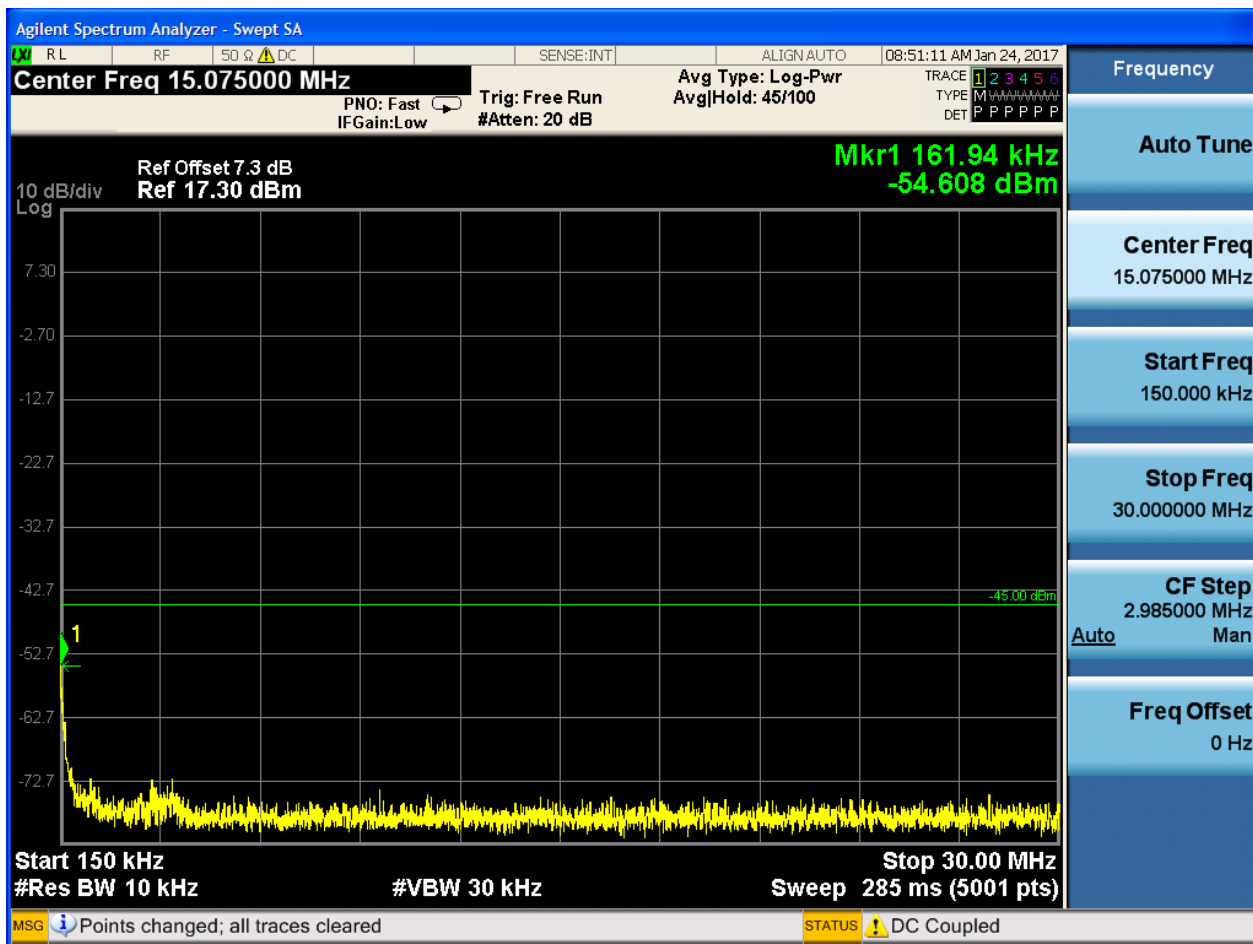


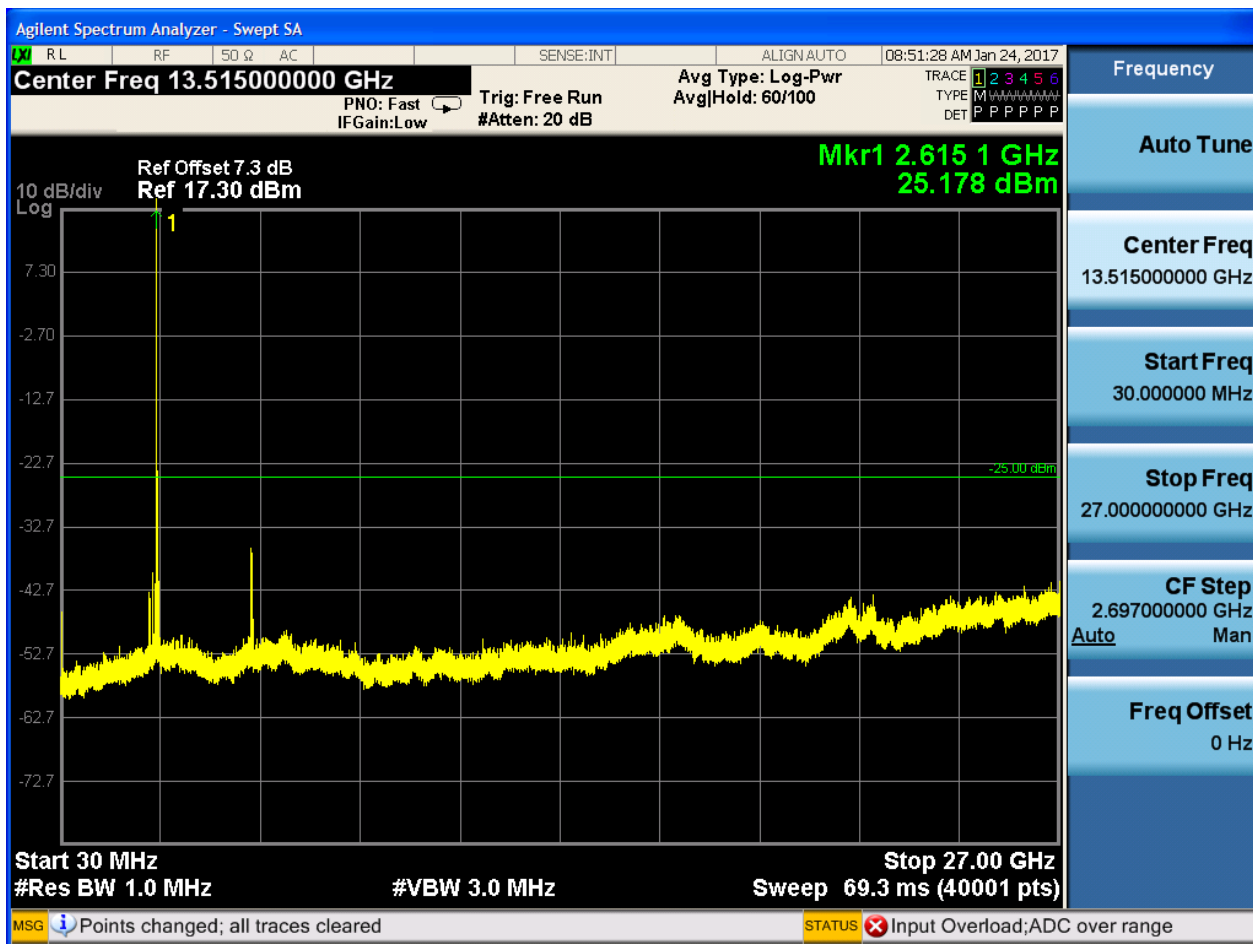


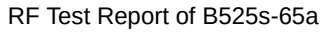
### 6.1.1.1.1.3 Test Channel = HCH

#### 6.1.1.1.1.3.1 Test RB = RB1#0

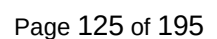


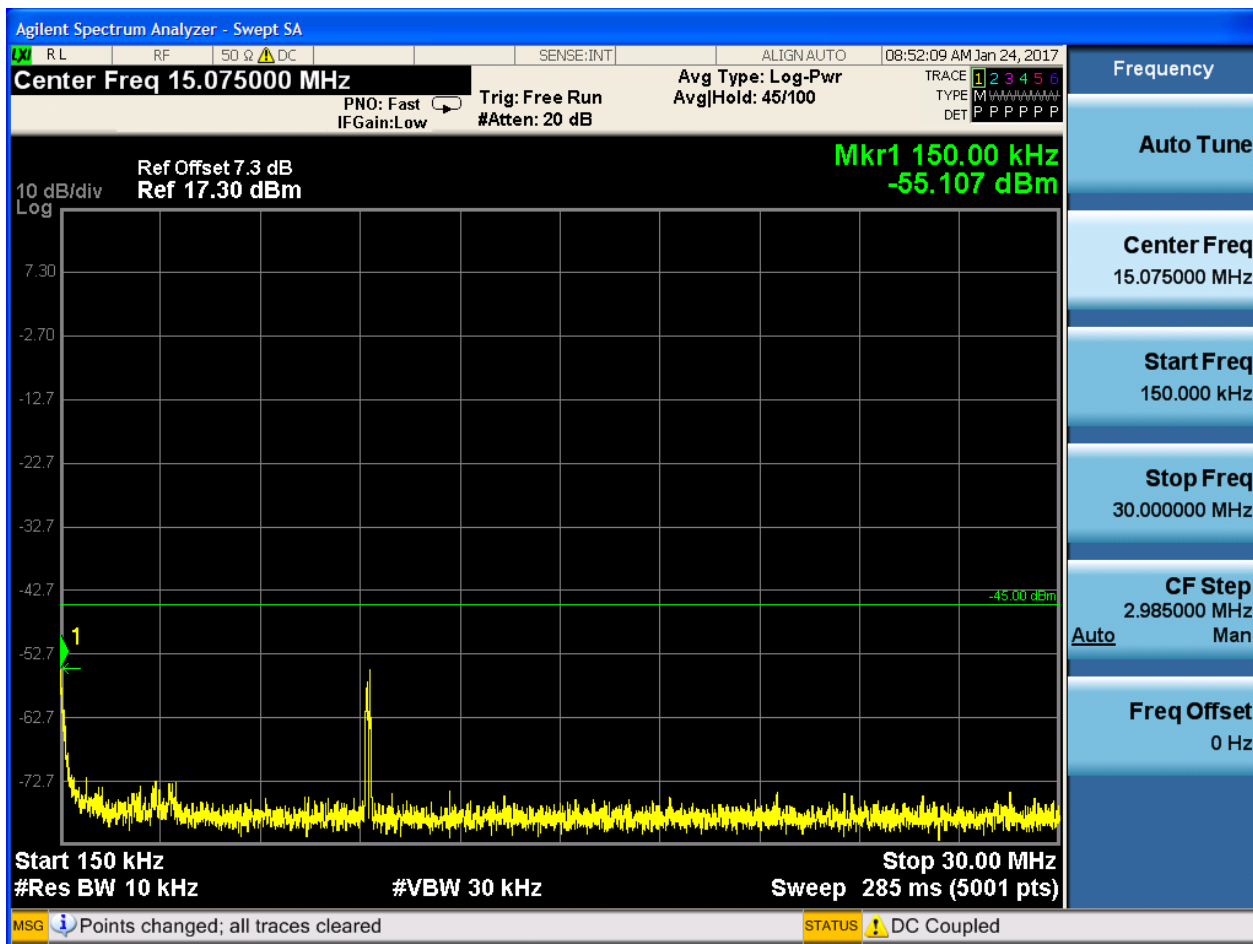






#### 6.1.1.1.2.1.1 Test RB = RB1#0



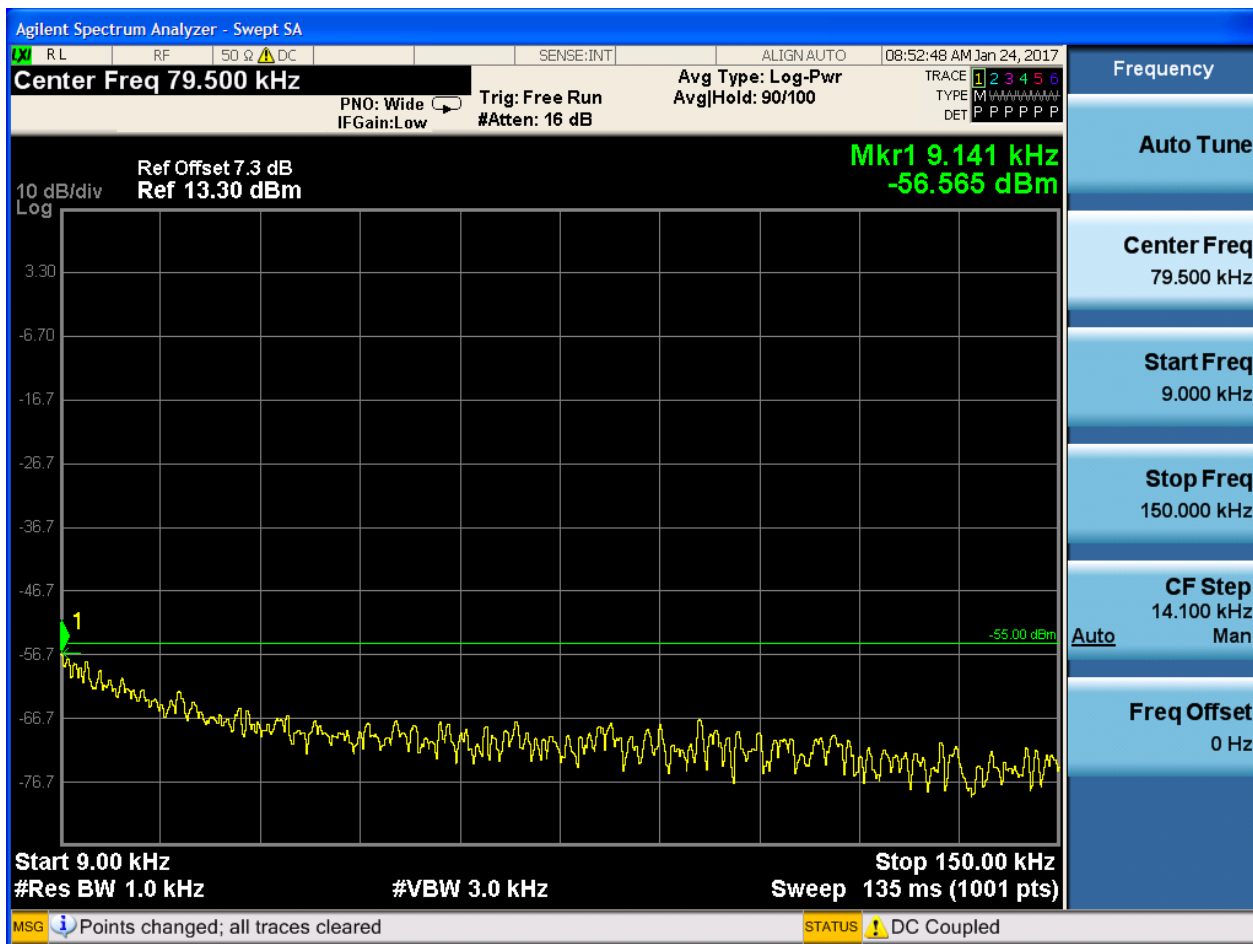




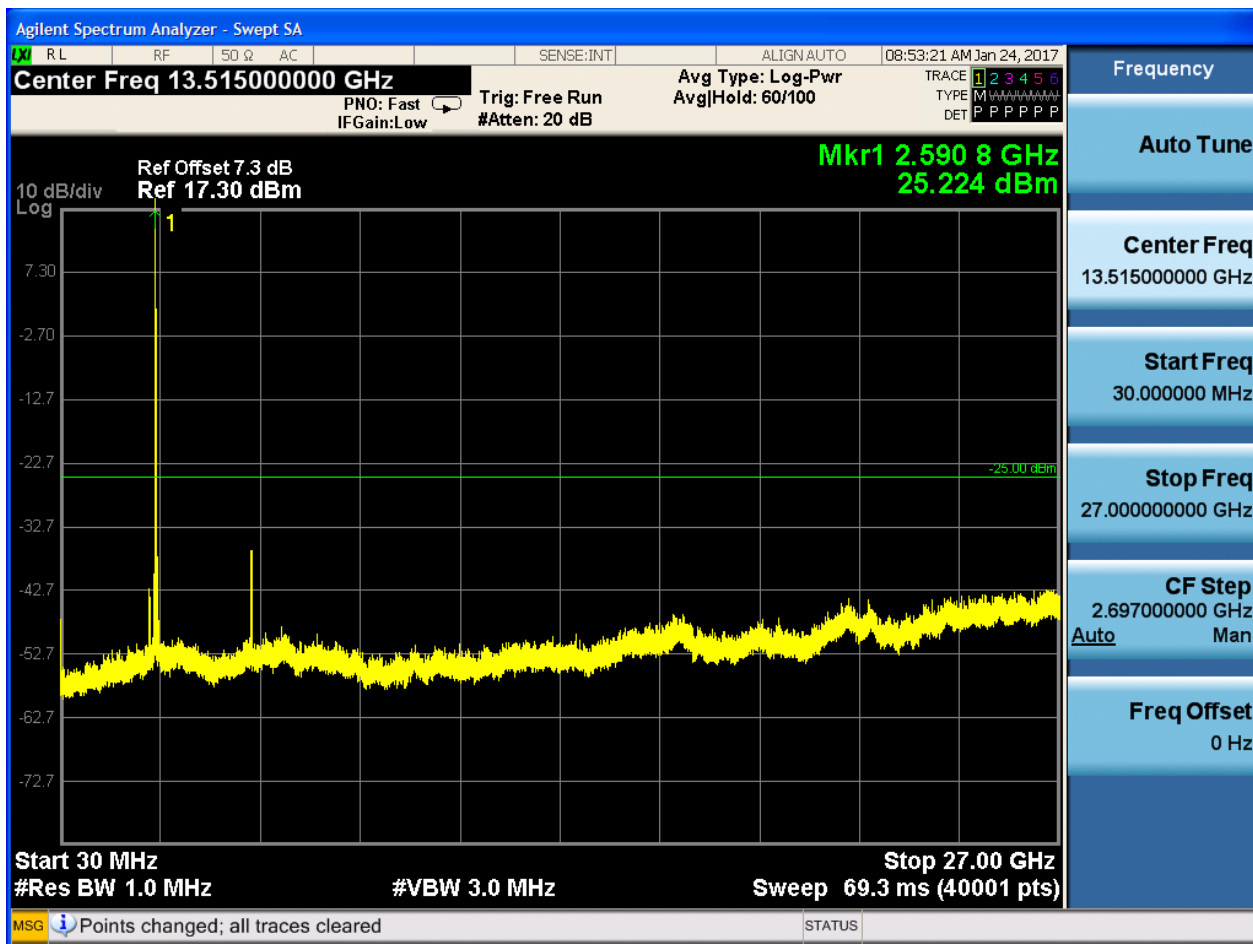


## 6.1.1.1.2.2 Test Channel = MCH

## 6.1.1.1.2.2.1 Test RB = RB1#0

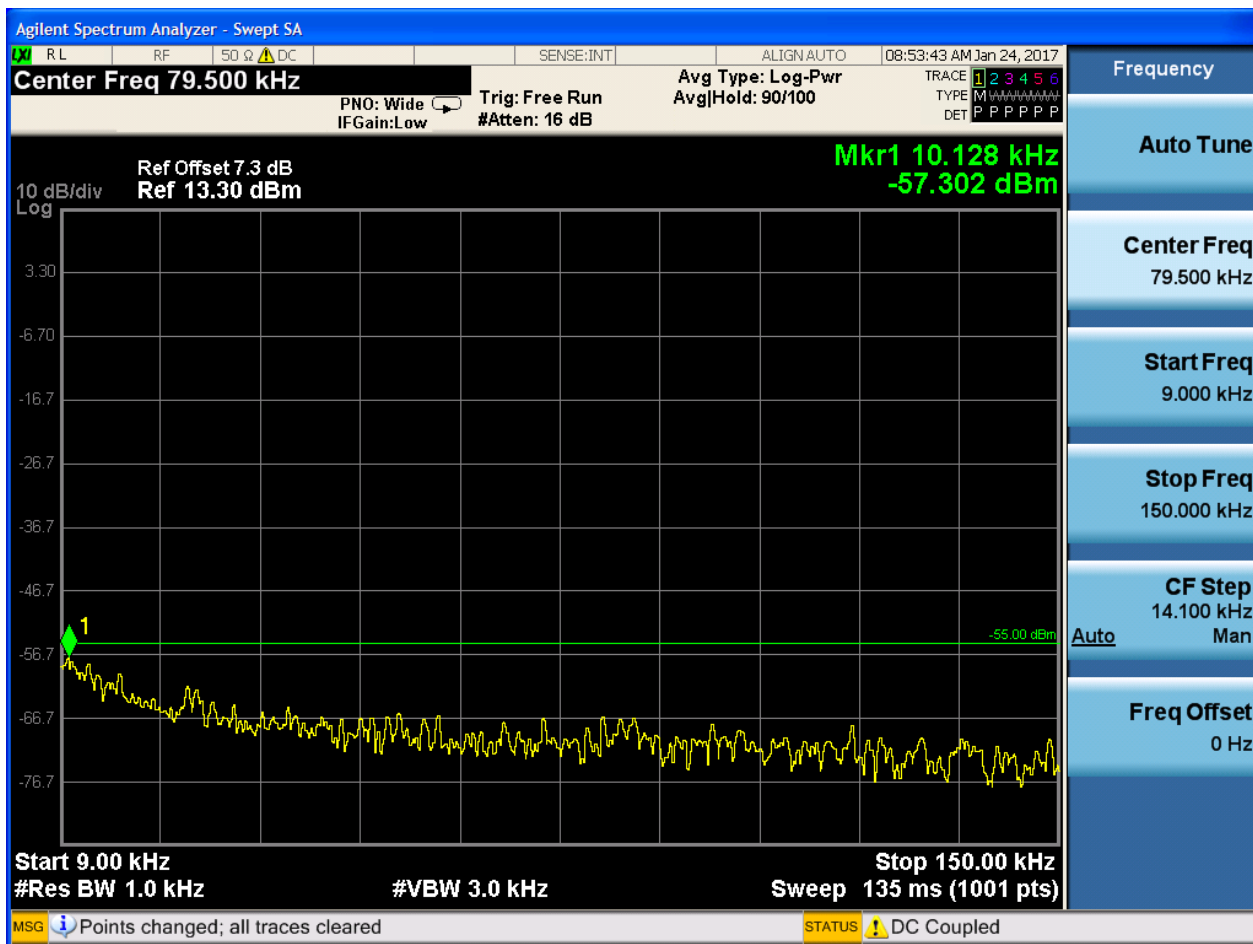


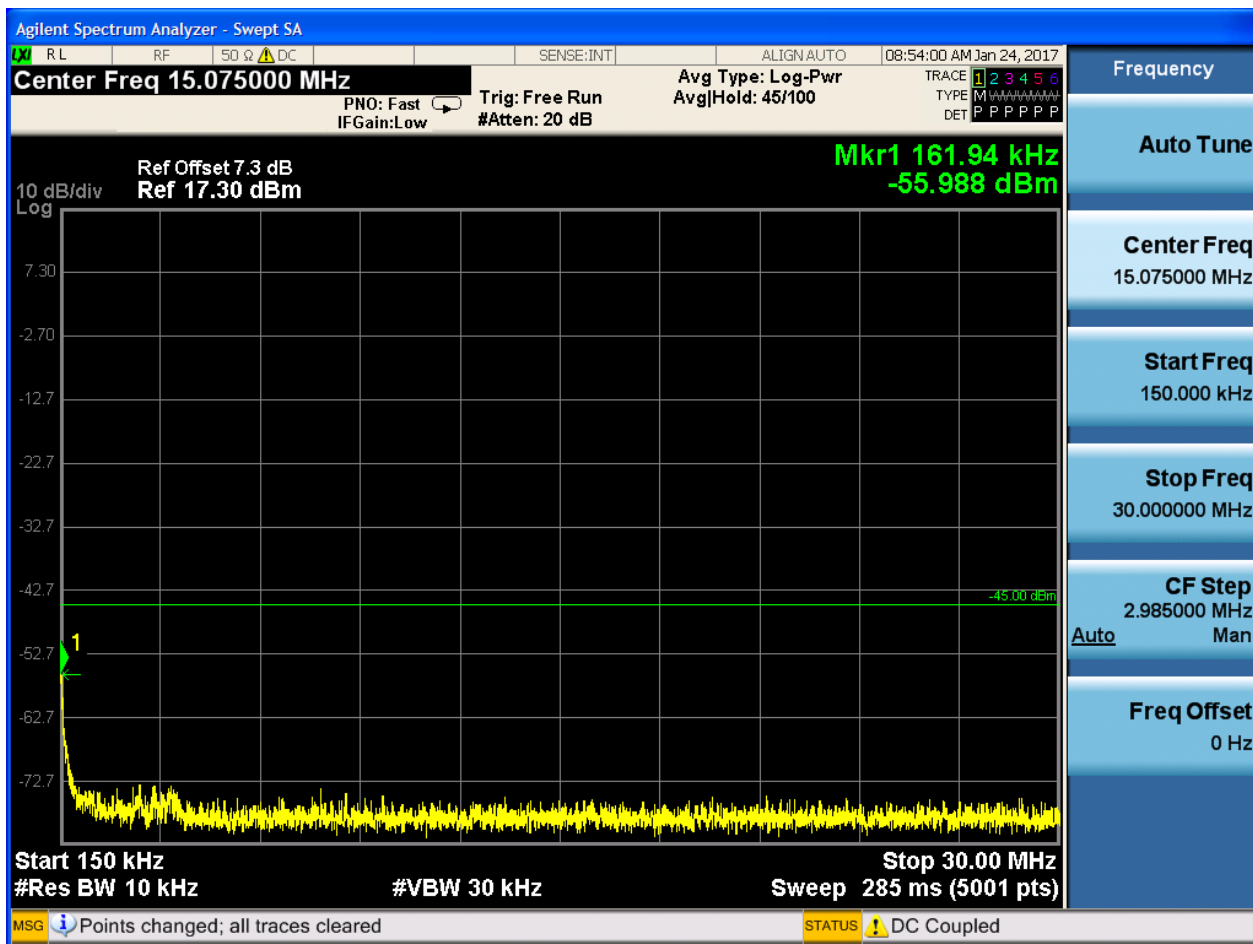


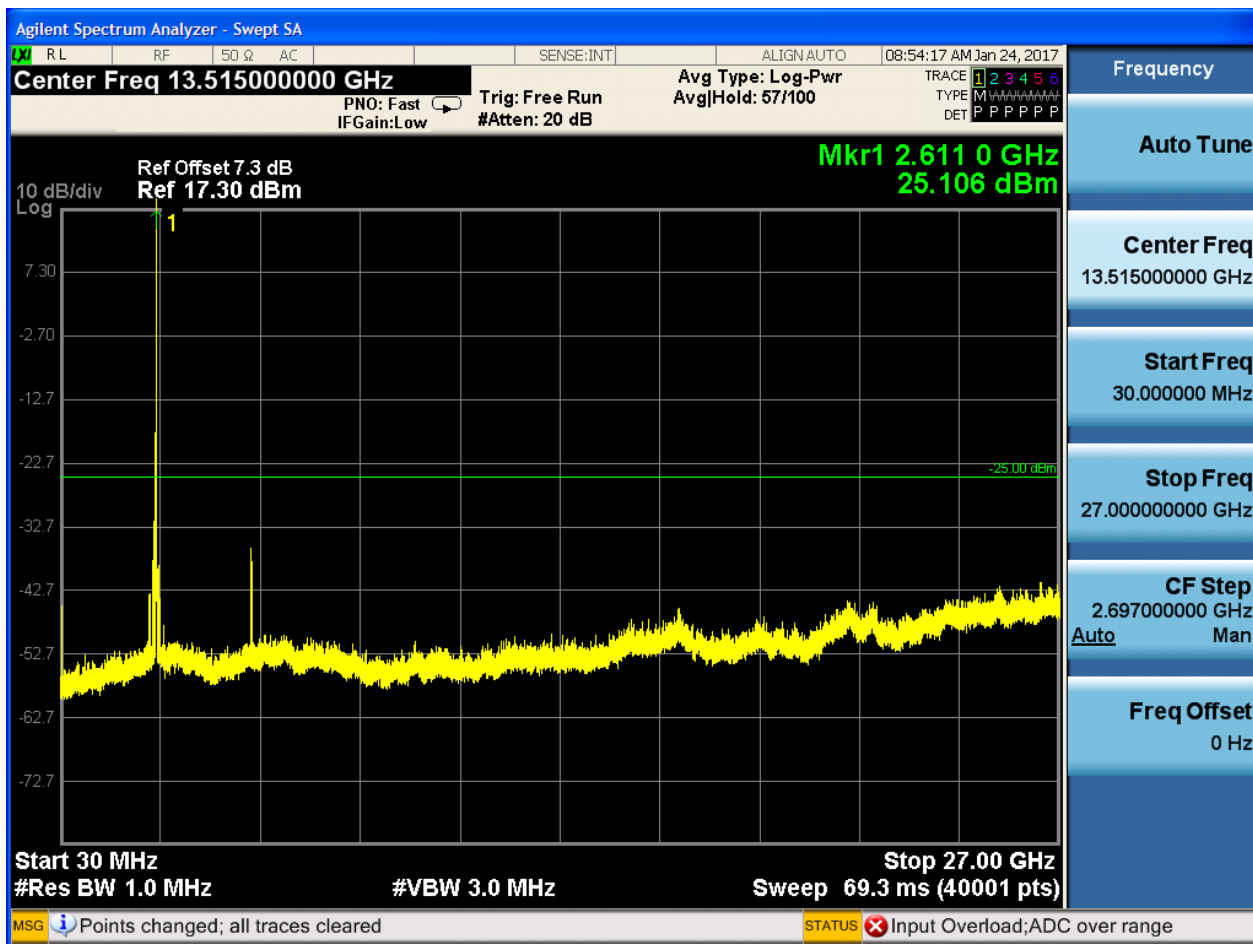


### 6.1.1.1.2.3 Test Channel = HCH

#### 6.1.1.1.2.3.1 Test RB = RB1#0





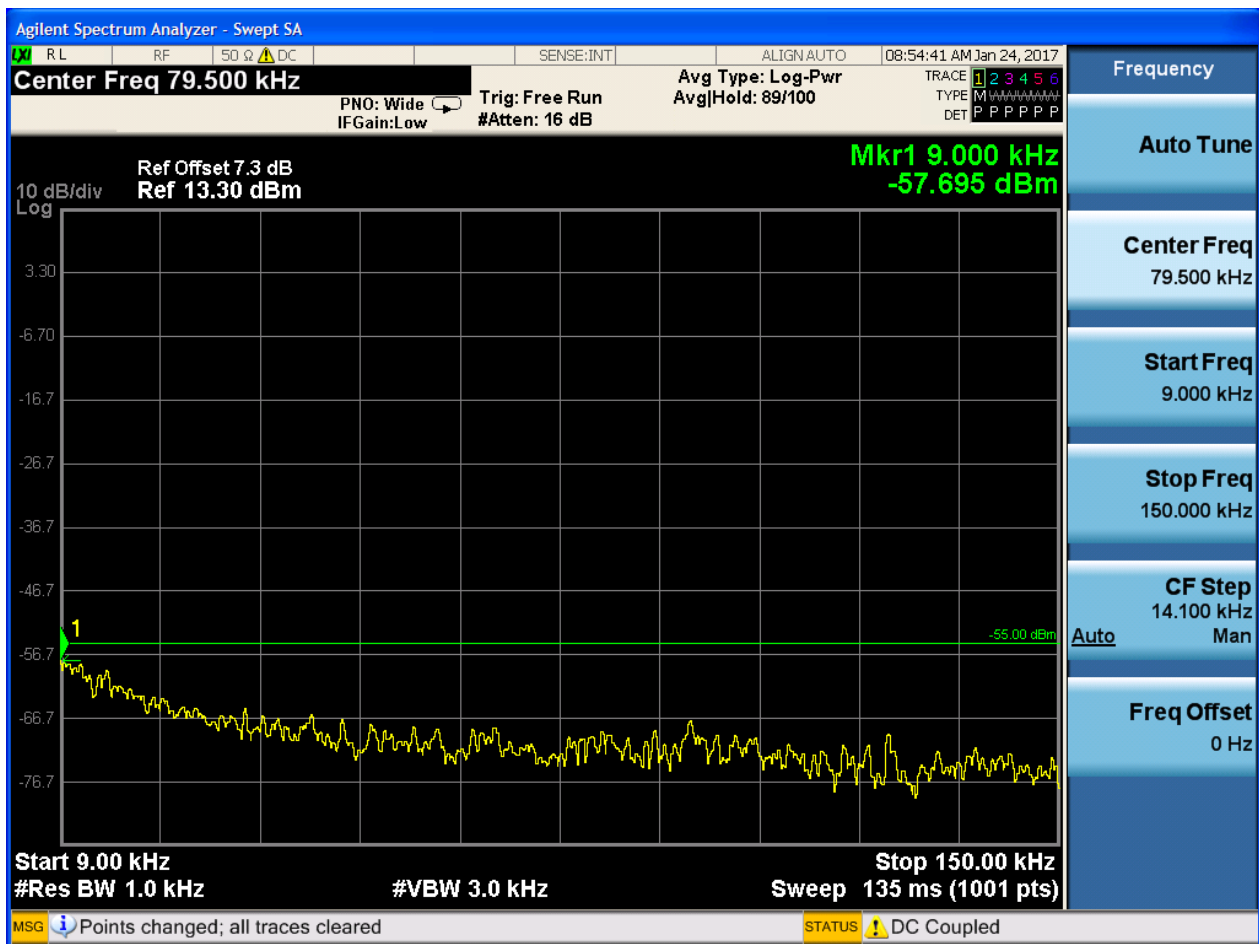




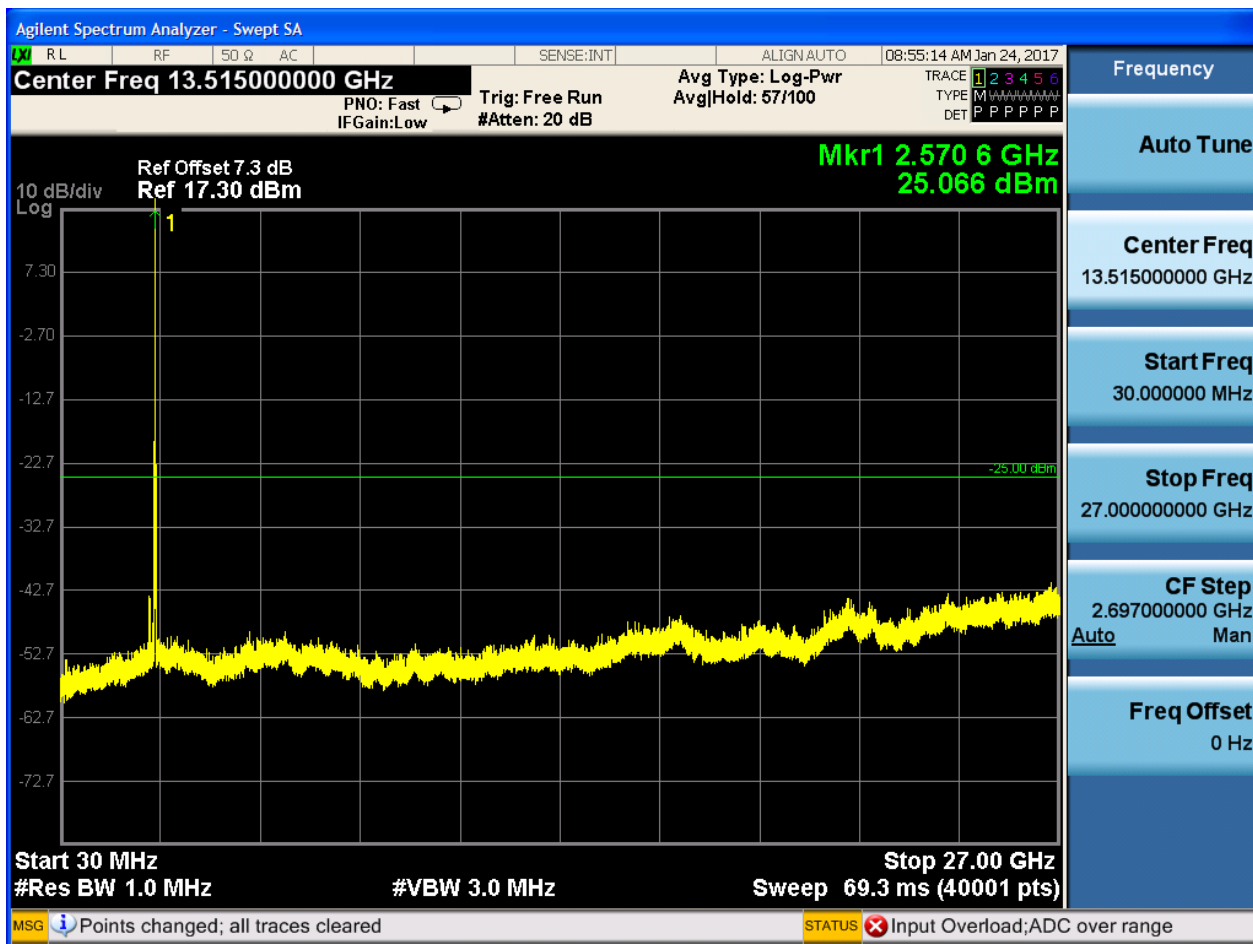
## 6.1.1.1.3 Test Bandwidth = 15

## 6.1.1.1.3.1 Test Channel = LCH

## 6.1.1.1.3.1.1 Test RB = RB1#0

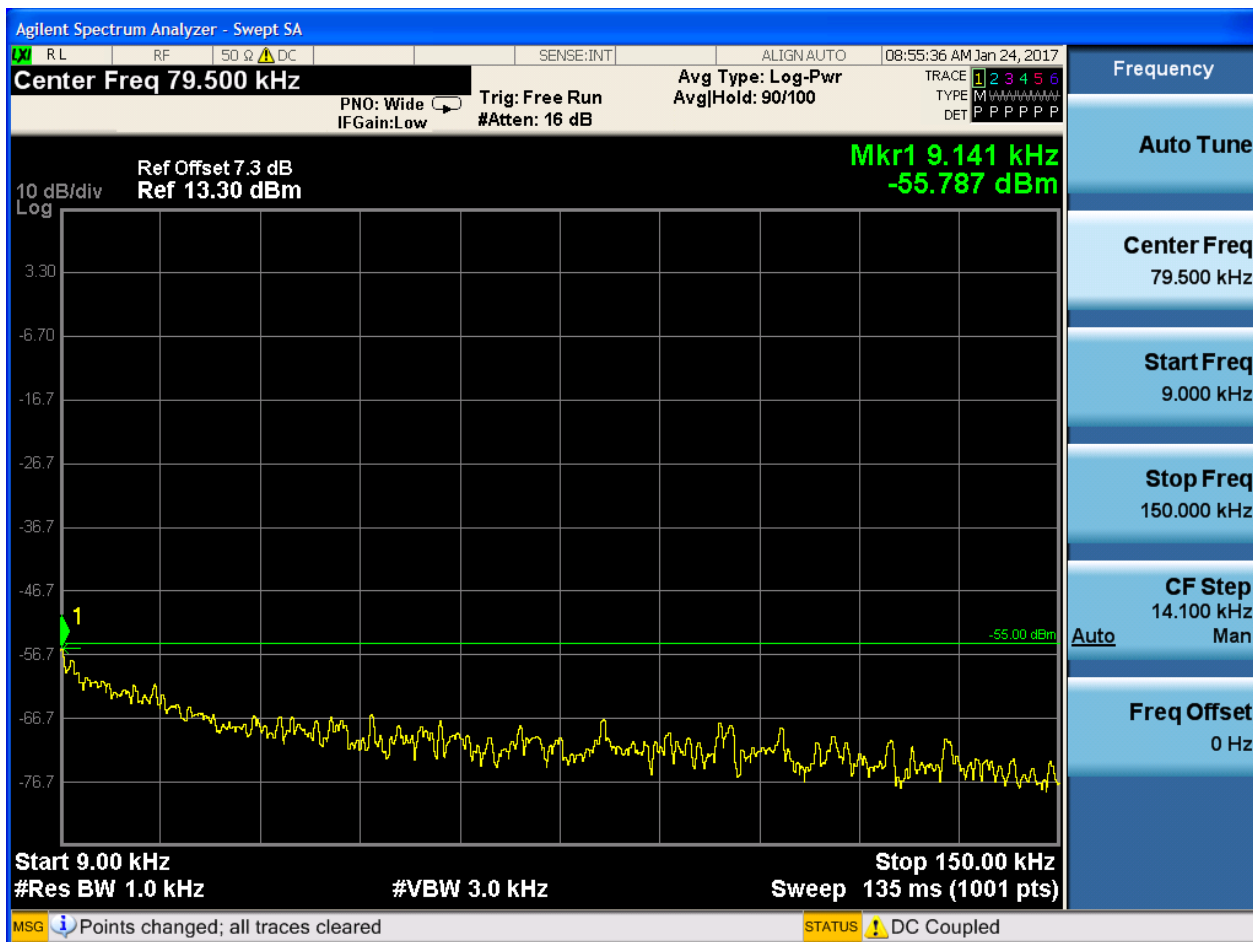


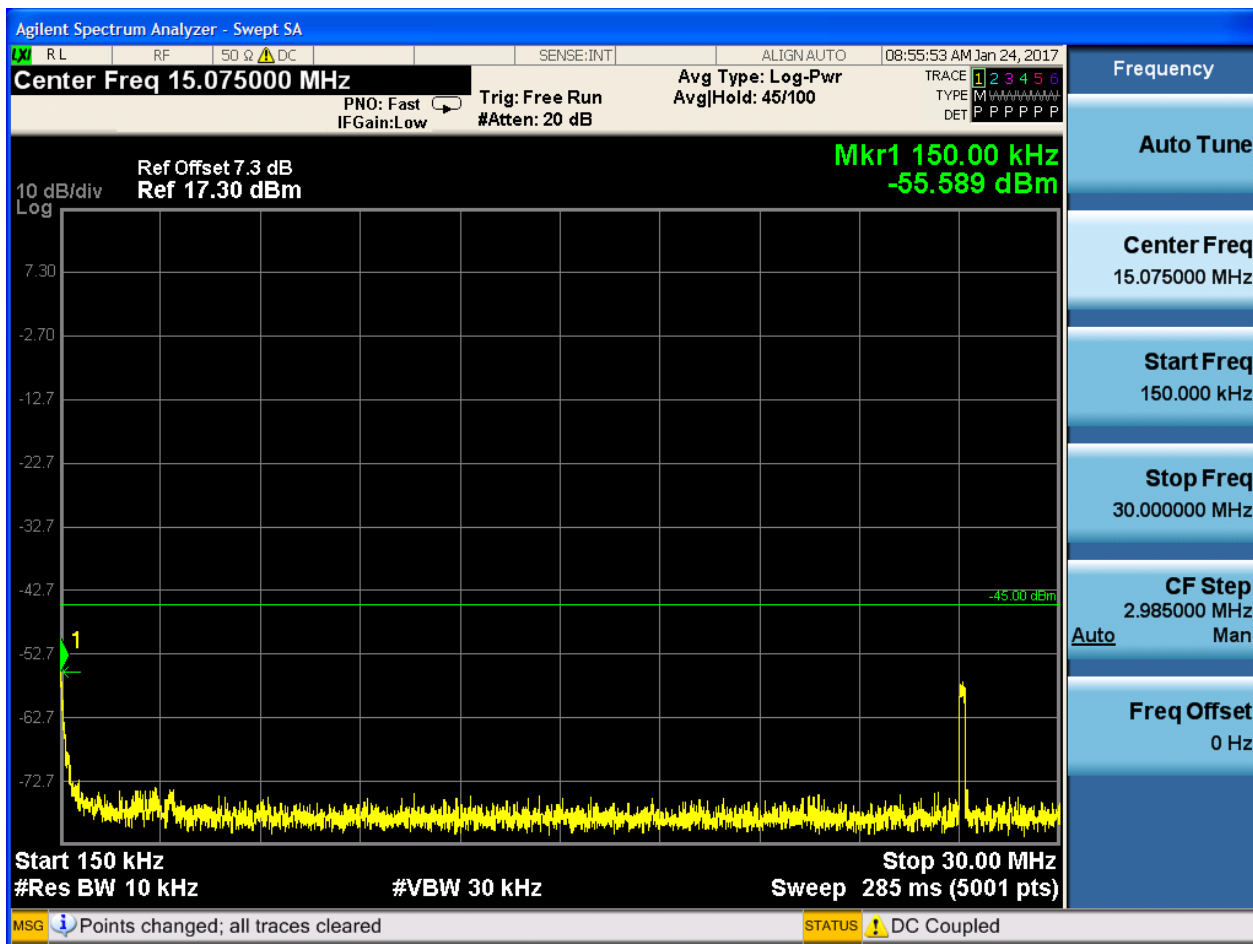


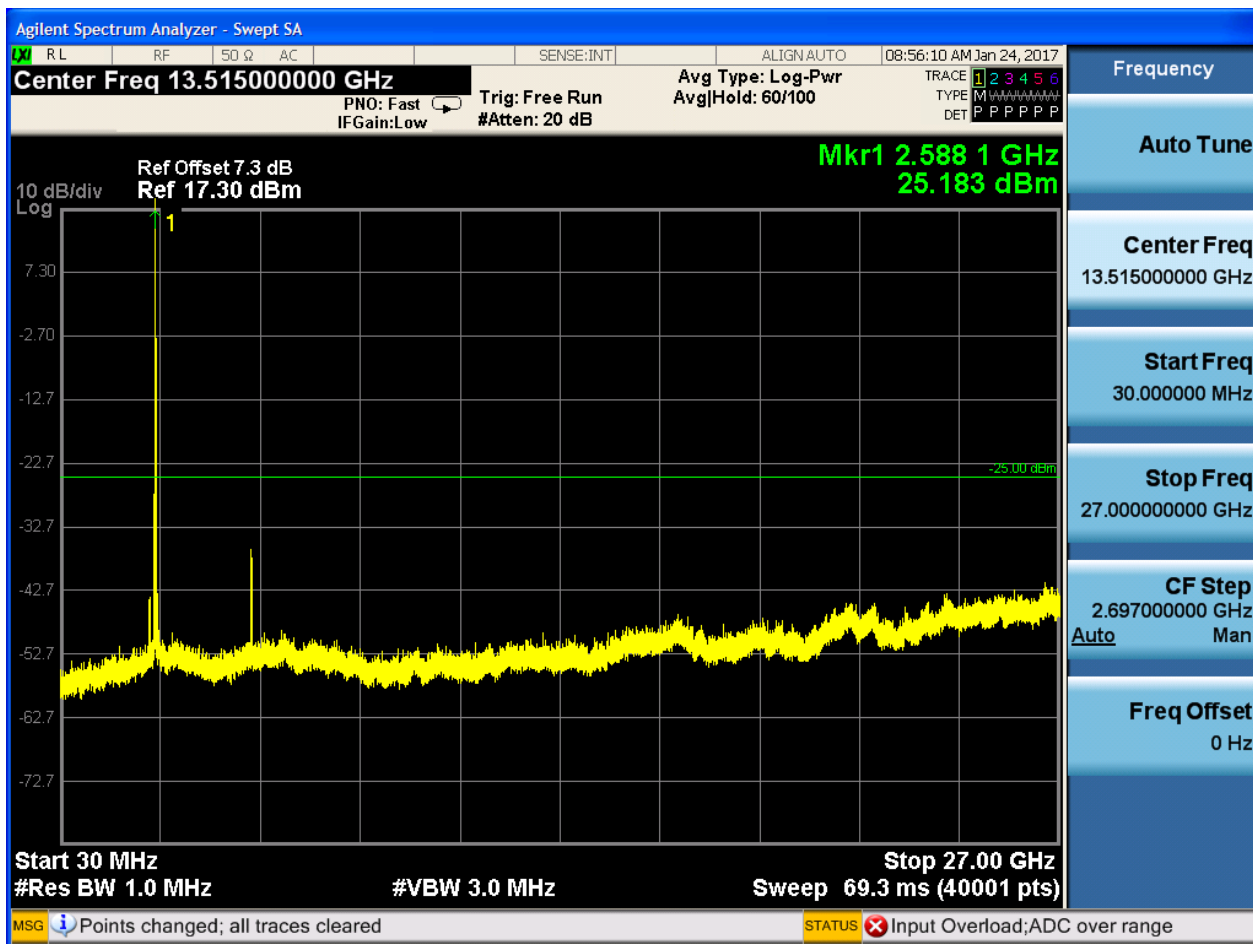


### 6.1.1.1.3.2 Test Channel = MCH

#### 6.1.1.1.3.2.1 Test RB = RB1#0

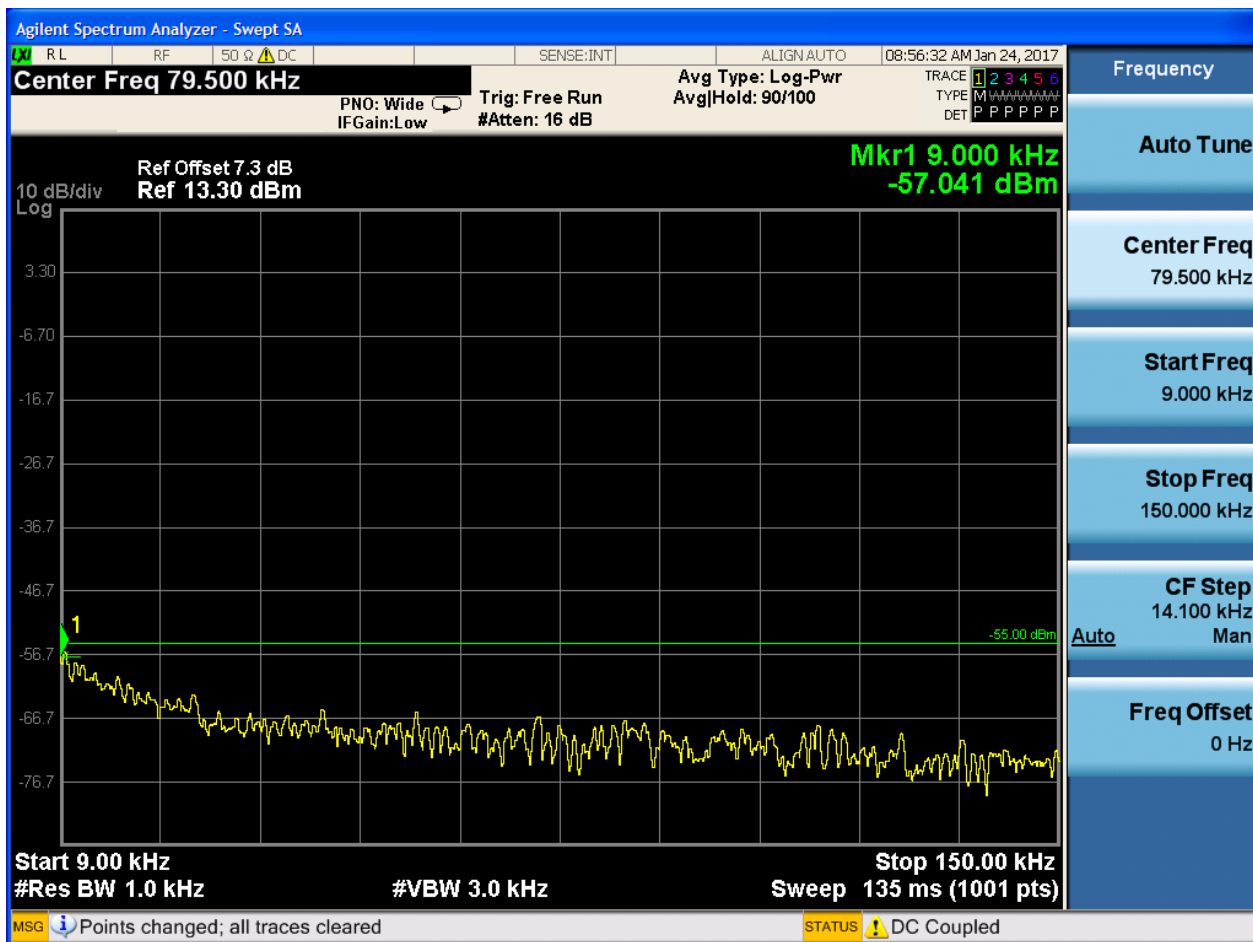






### 6.1.1.1.3.3 Test Channel = HCH

#### 6.1.1.1.3.3.1 Test RB = RB1#0



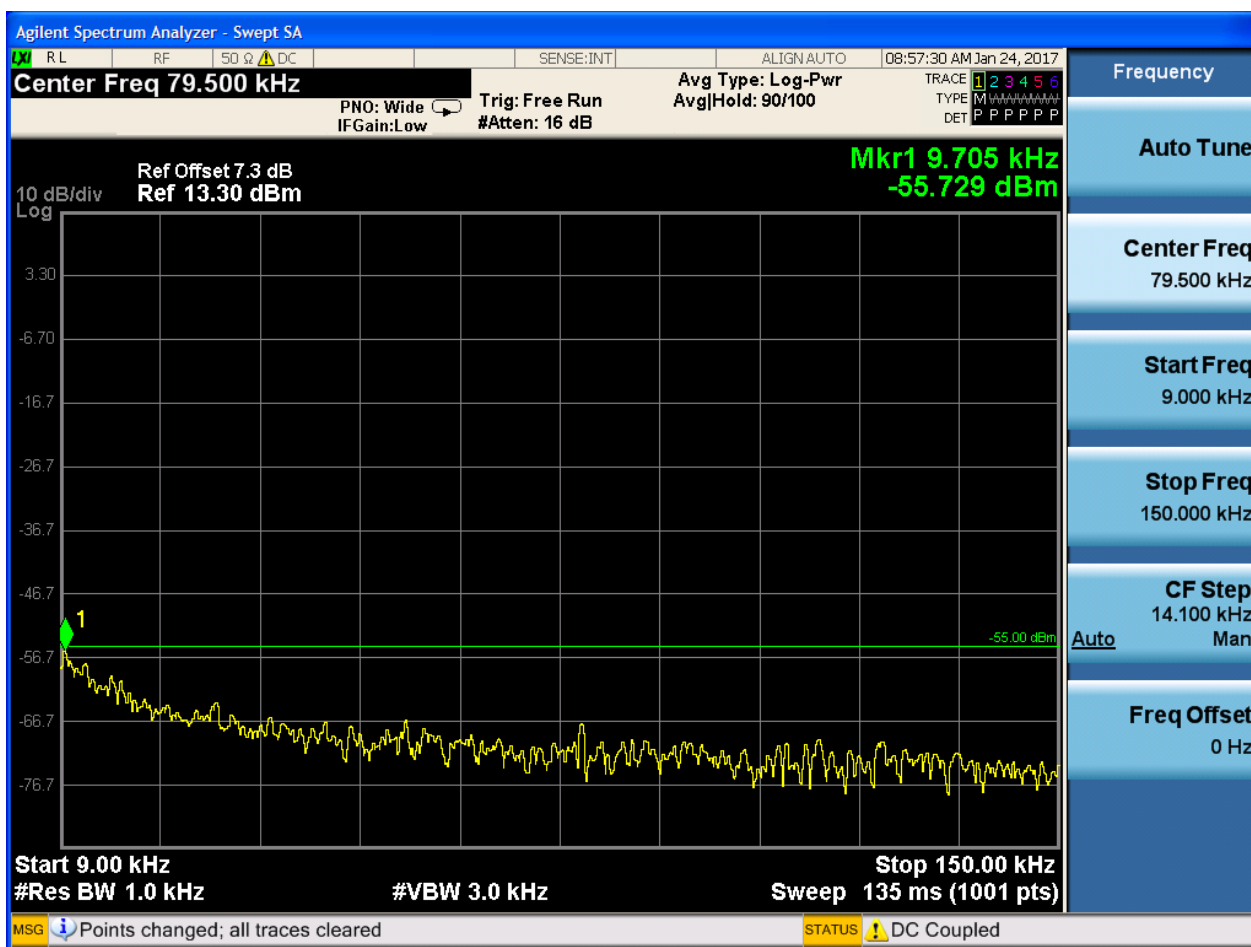


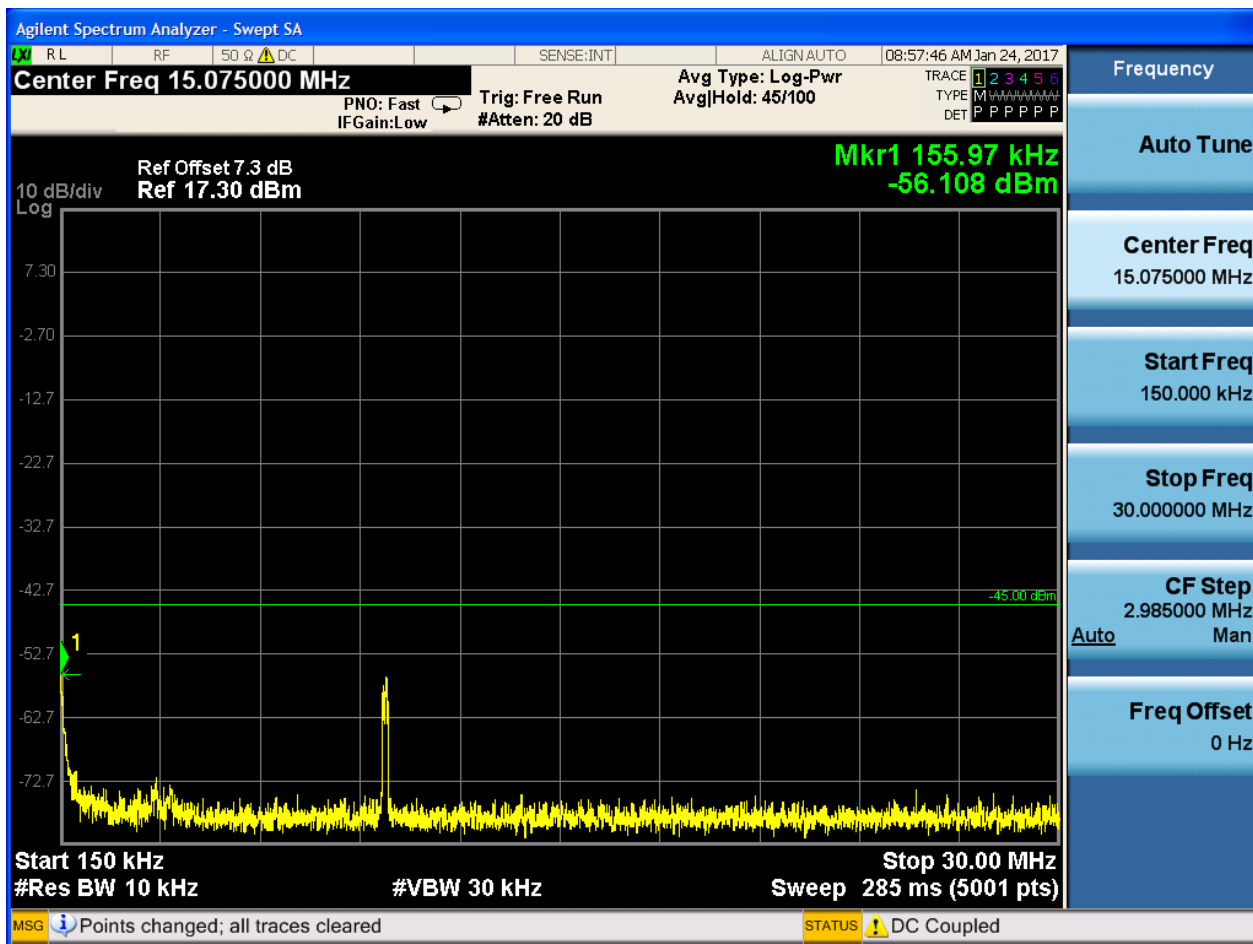


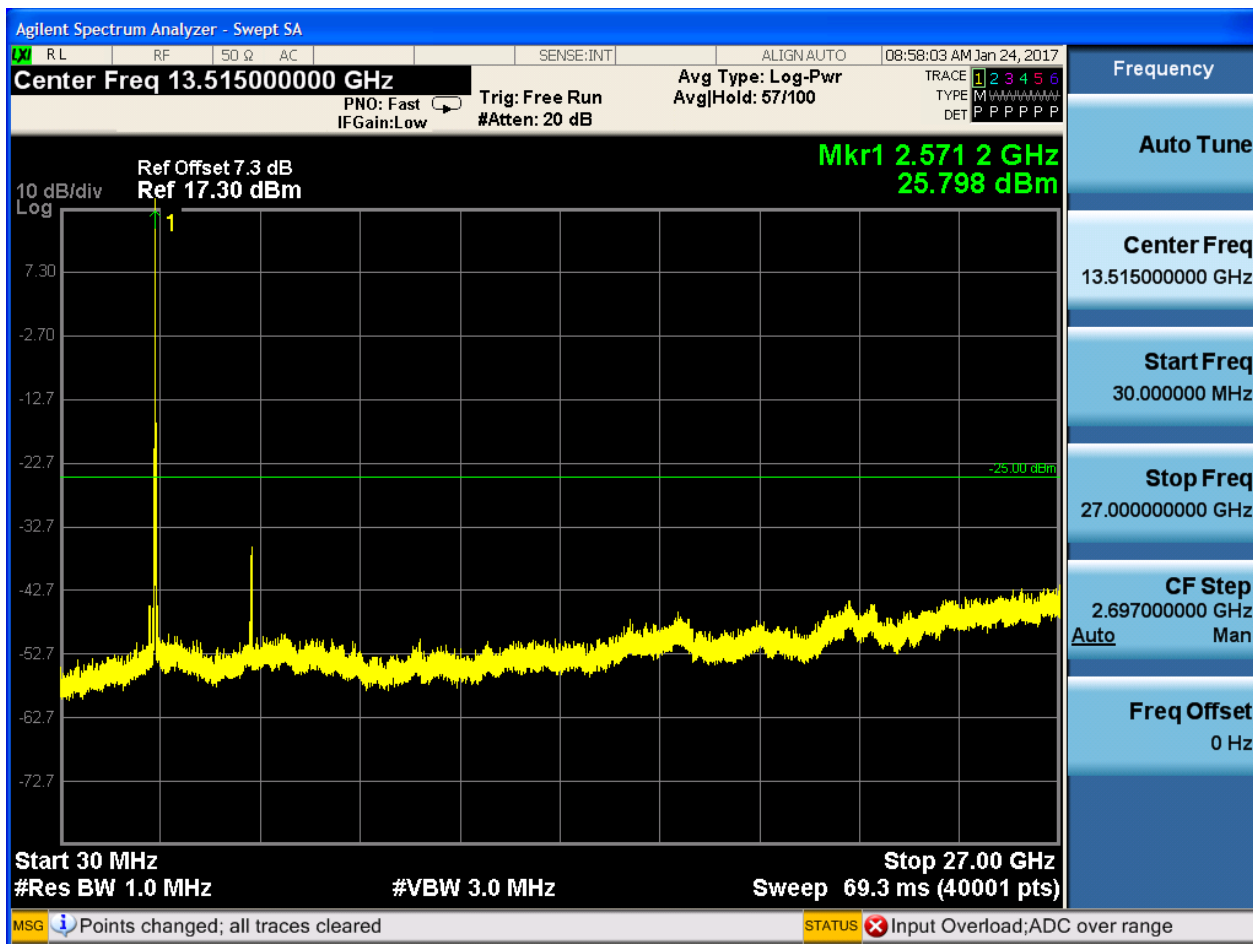
#### 6.1.1.1.4 Test Bandwidth = 20

##### 6.1.1.1.4.1 Test Channel = LCH

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



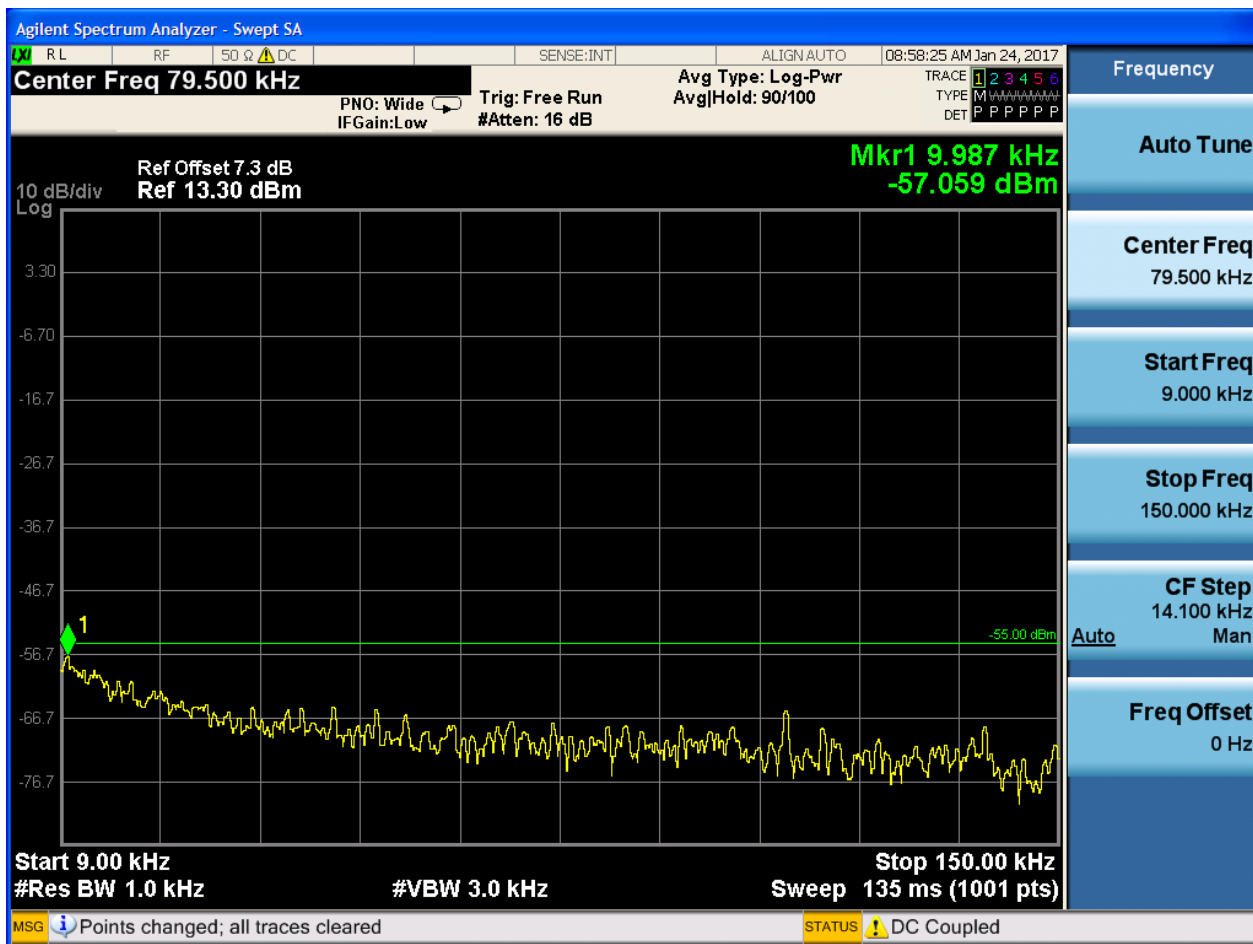






## 6.1.1.1.4.2 Test Channel = MCH

## 6.1.1.1.4.2.1 Test RB = RB1#0



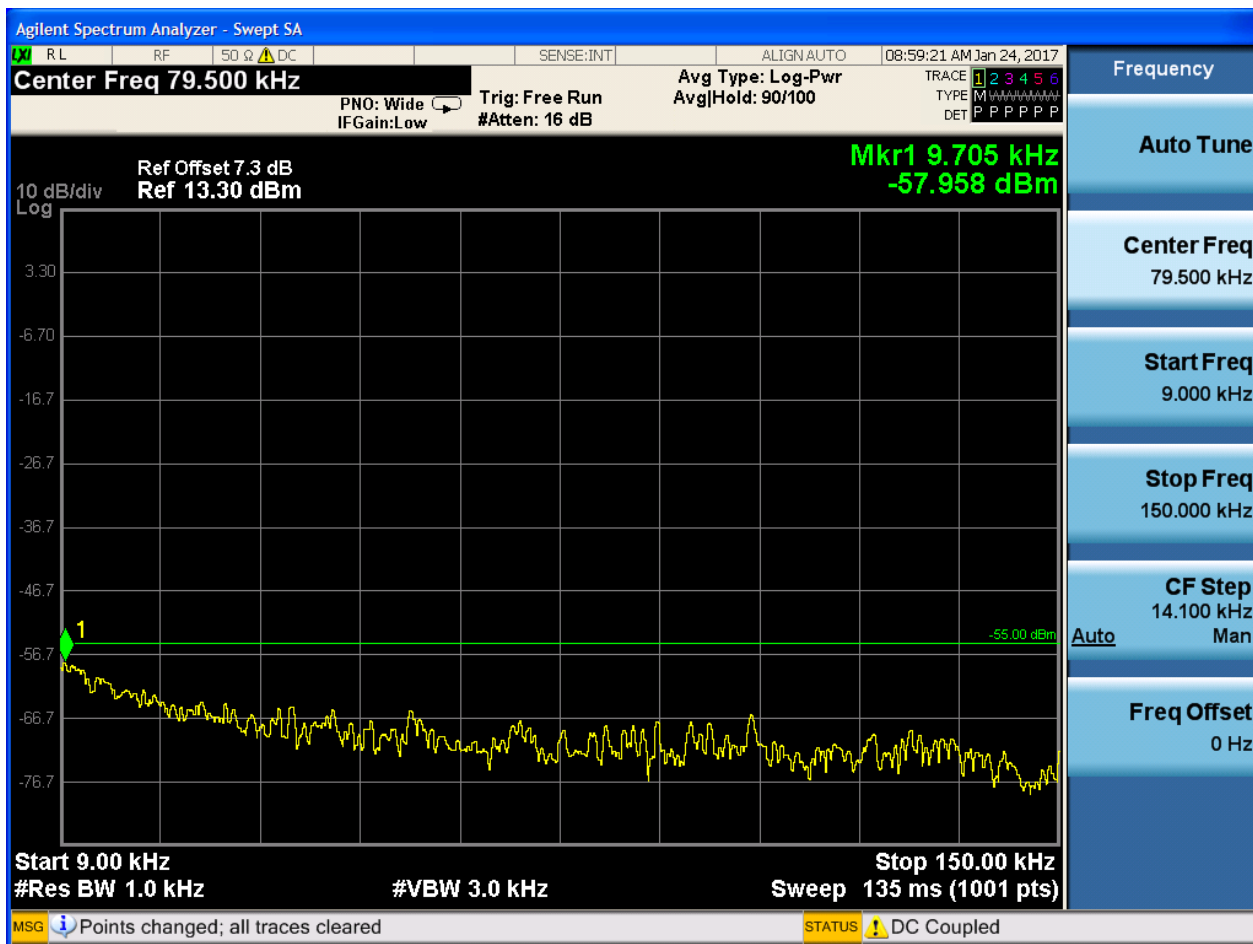




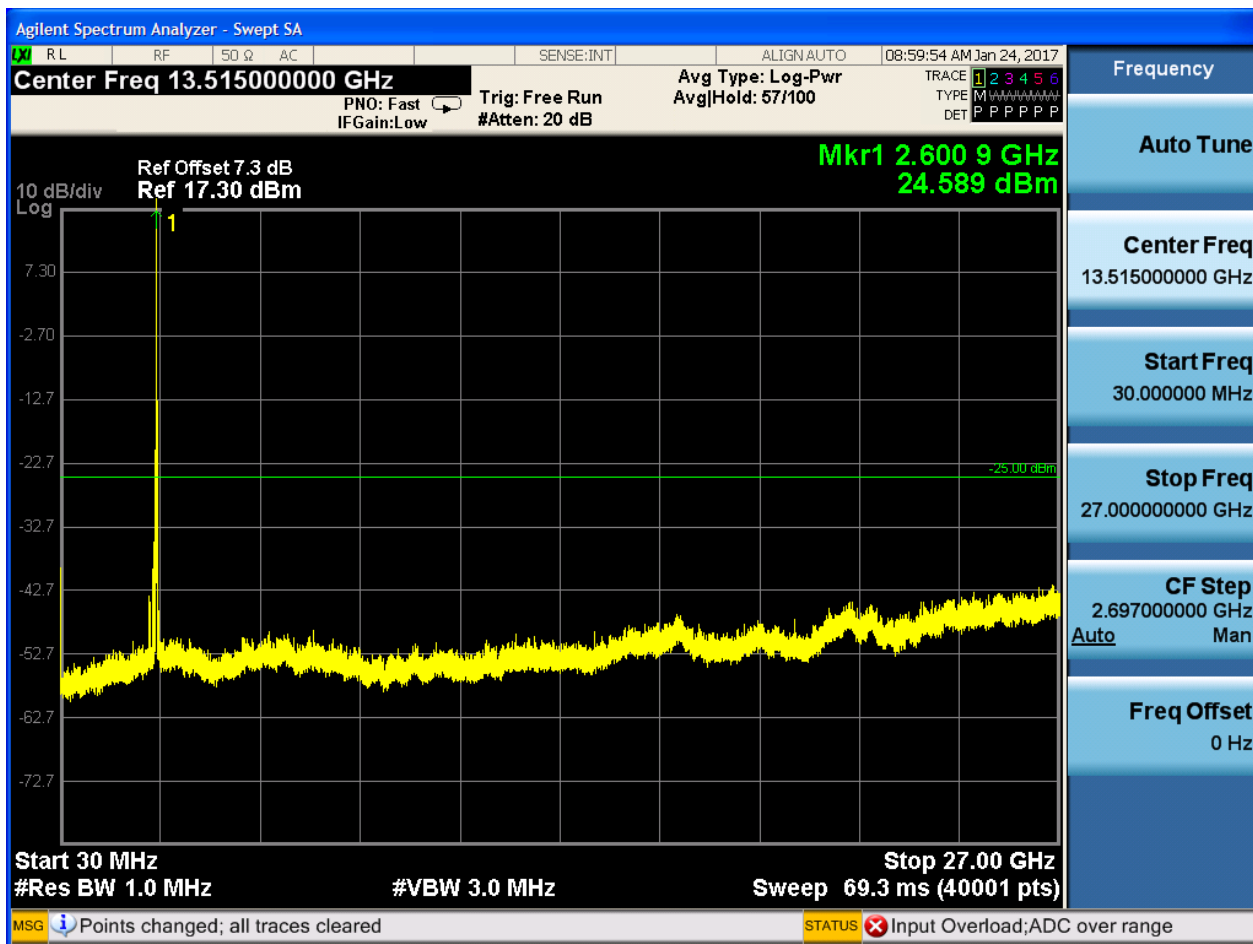


## 6.1.1.1.4.3 Test Channel = HCH

## 6.1.1.1.4.3.1 Test RB = RB1#0





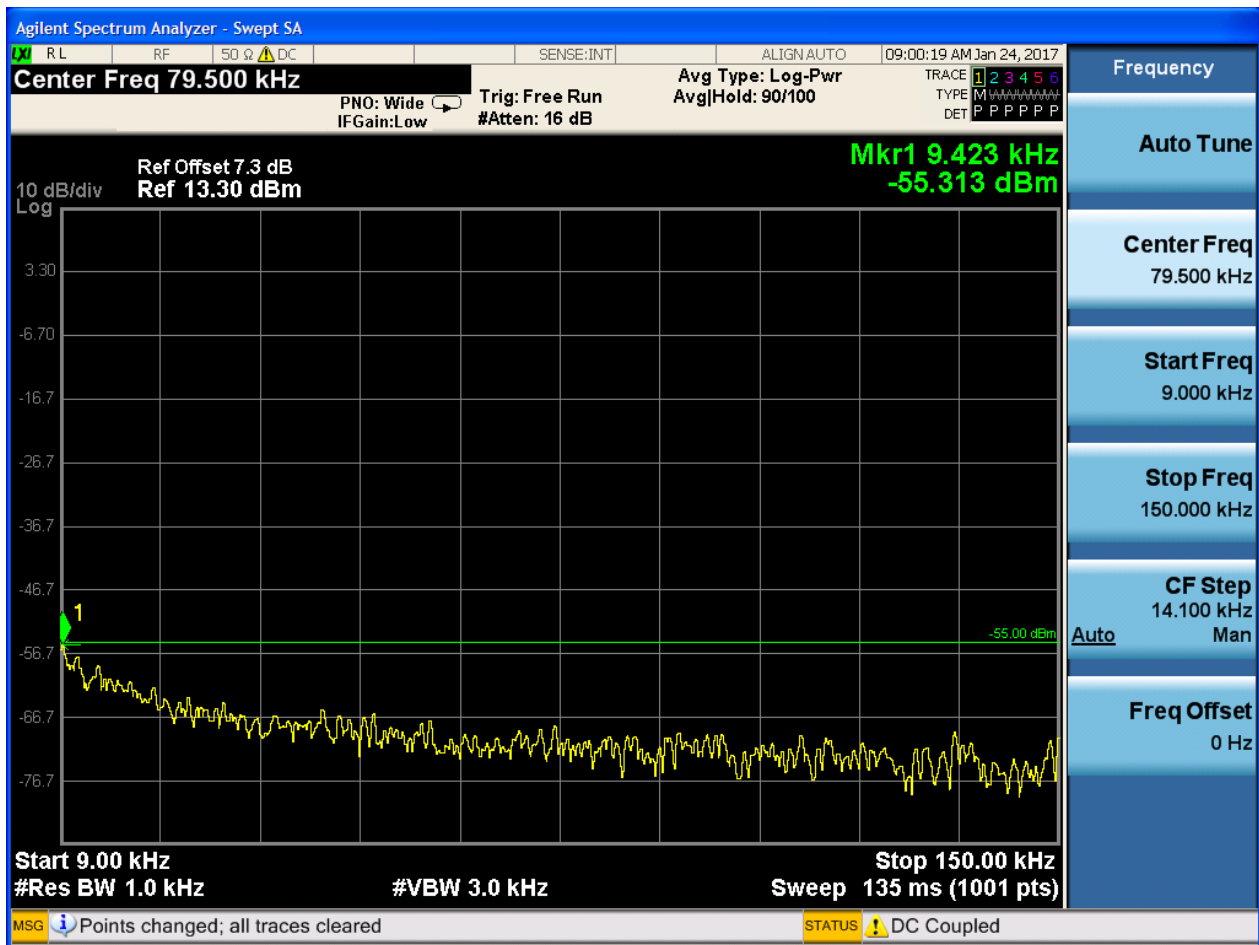


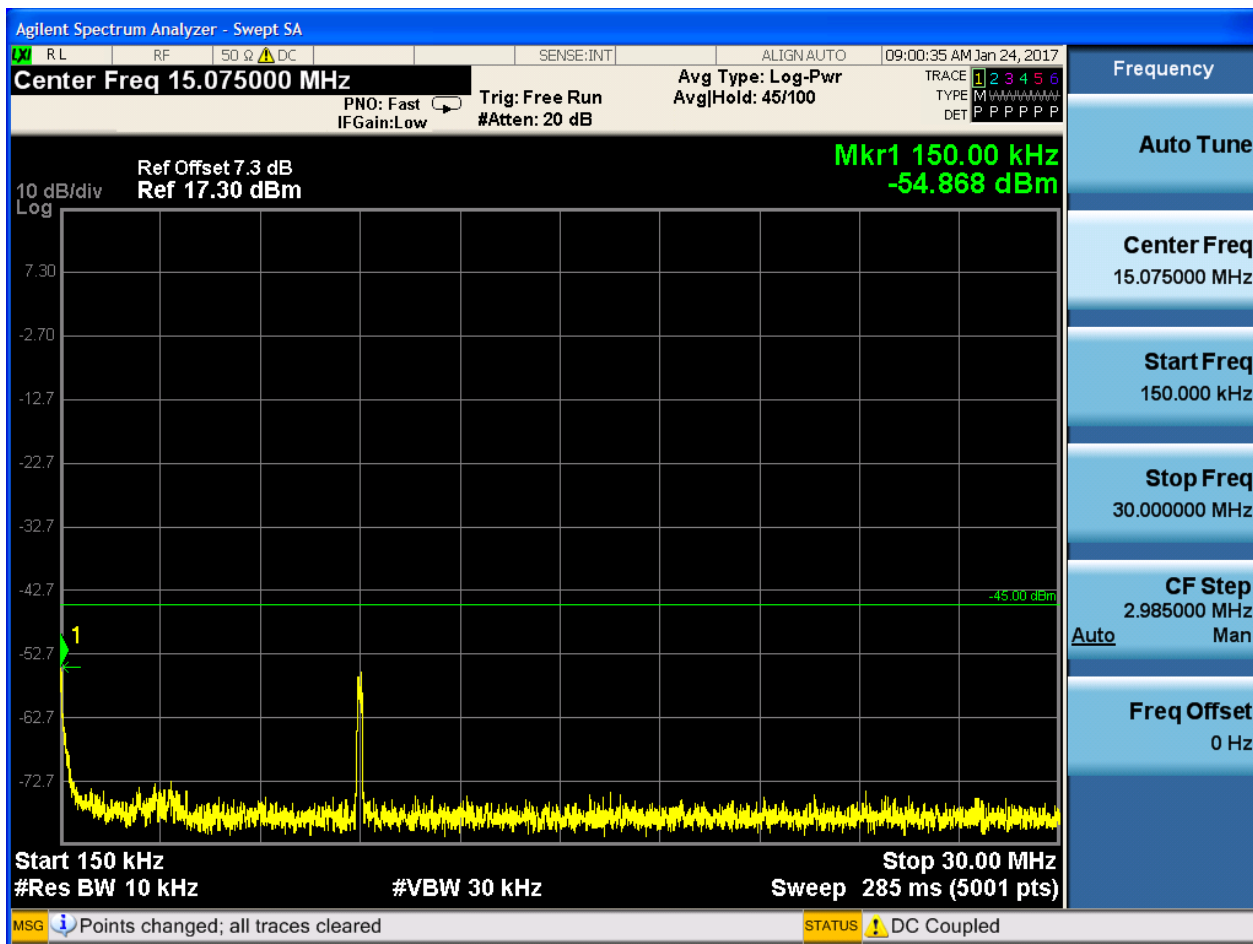
### 6.1.1.2 Test Mode = LTE/TM2

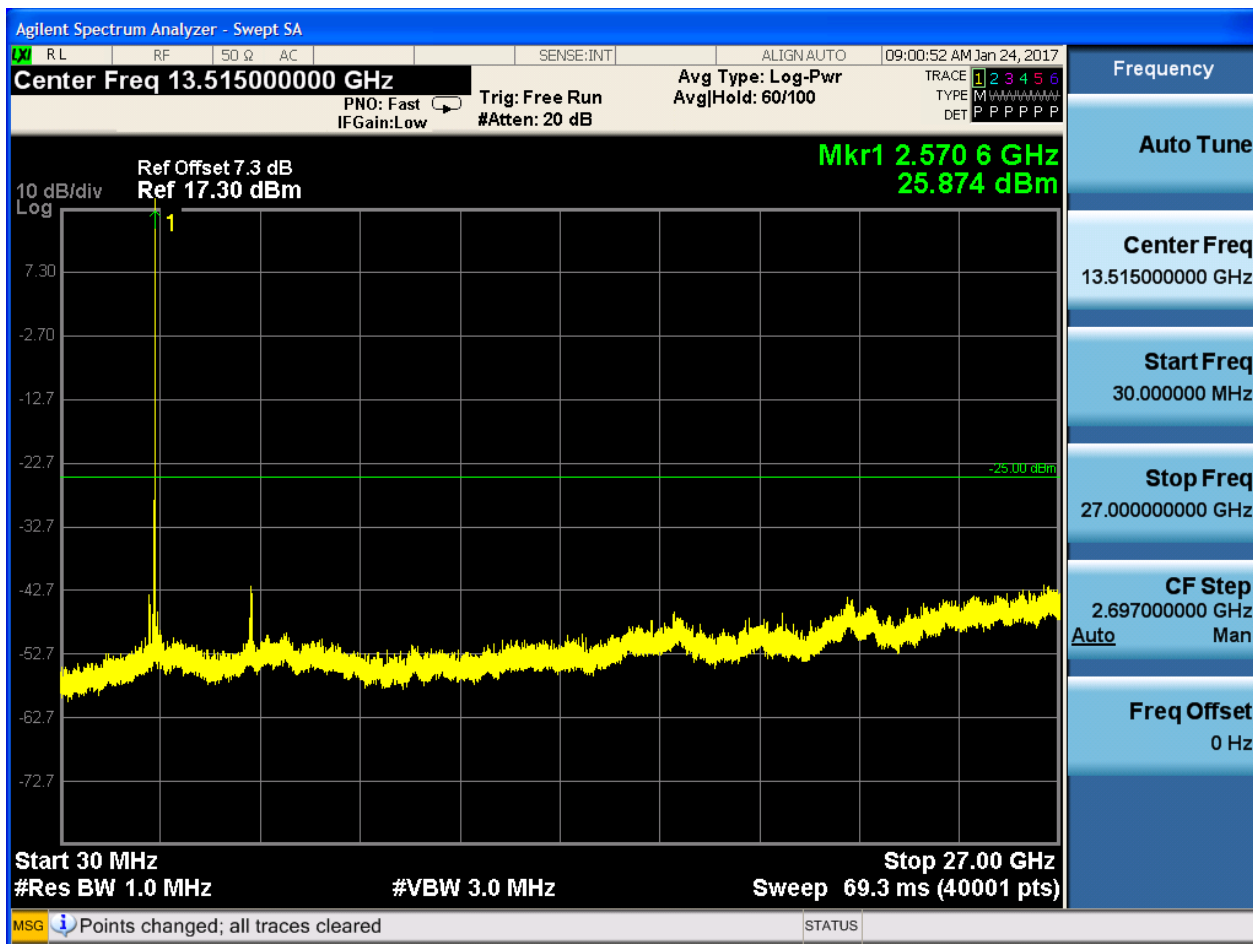
#### 6.1.1.2.1 Test Bandwidth = 5

##### 6.1.1.2.1.1 Test Channel = LCH

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



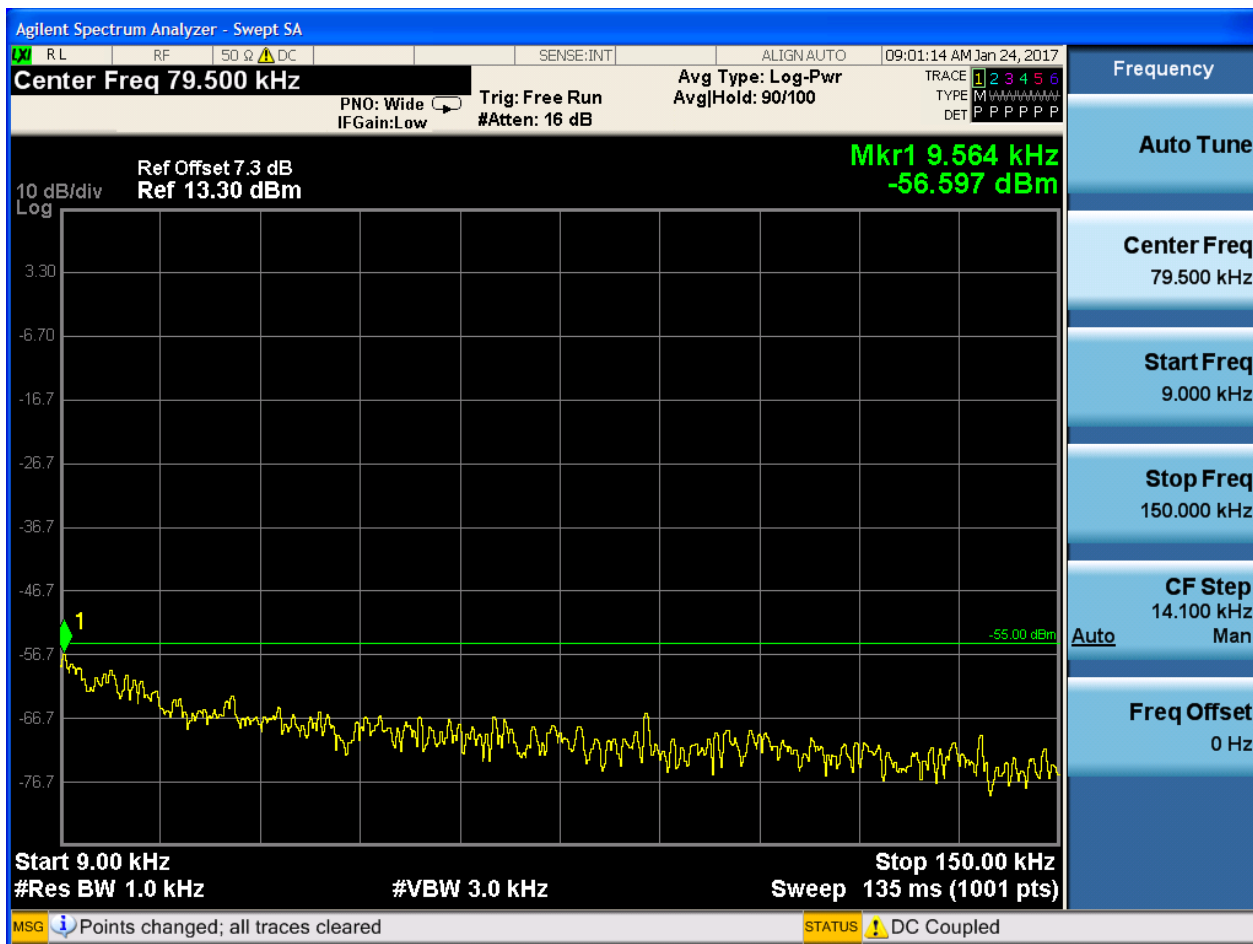




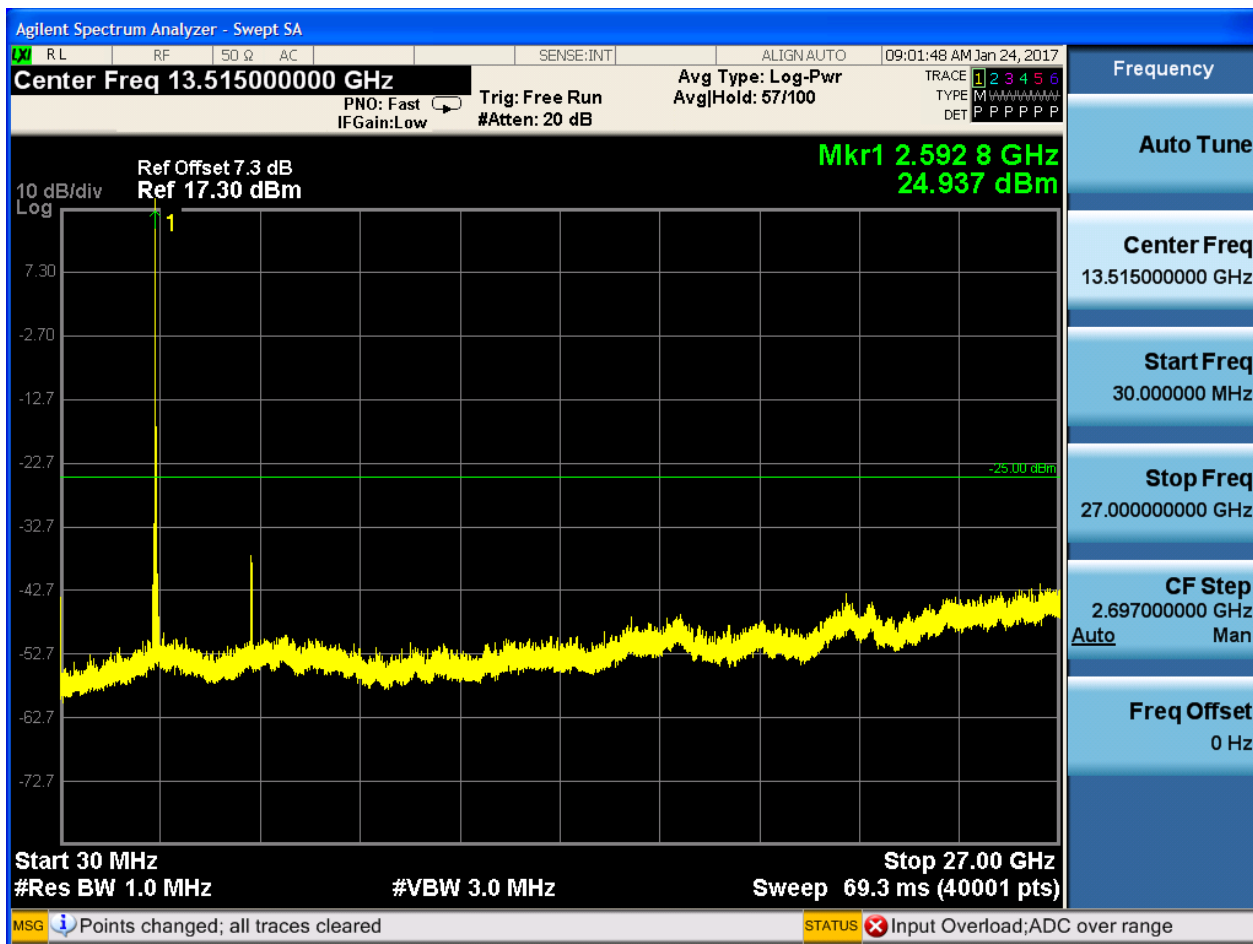


## 6.1.1.2.1.2 Test Channel = MCH

## 6.1.1.2.1.2.1 Test RB = RB1#0



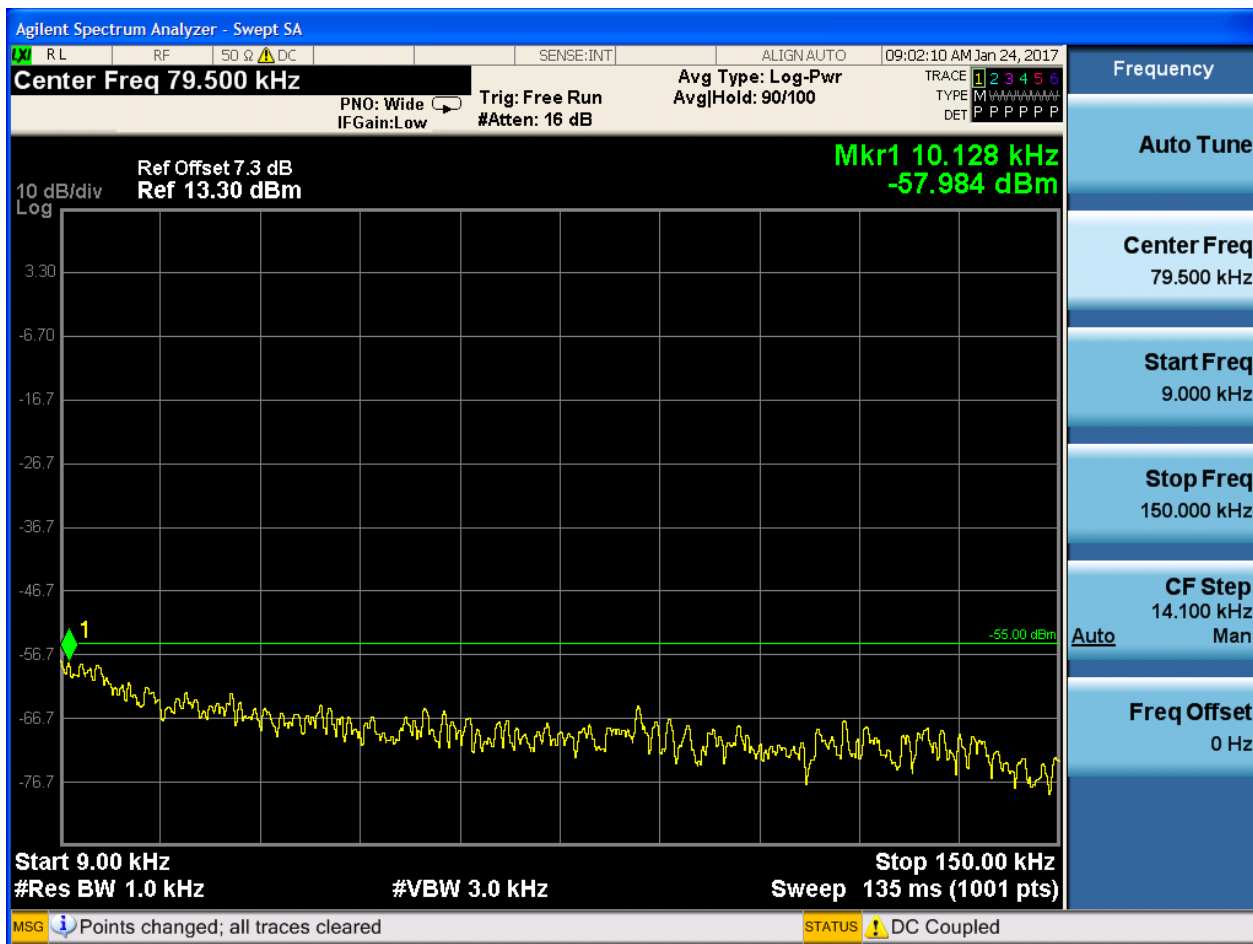


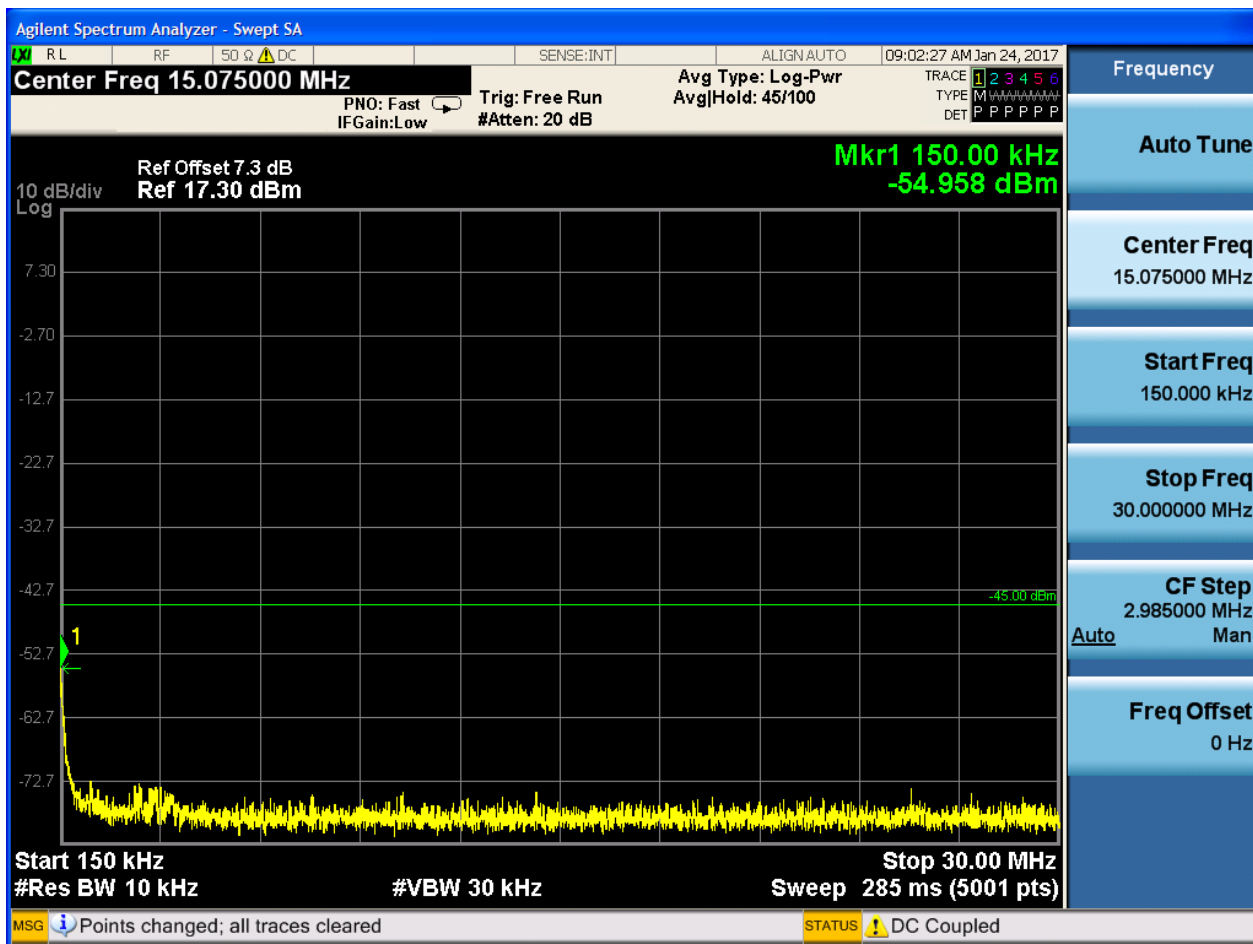


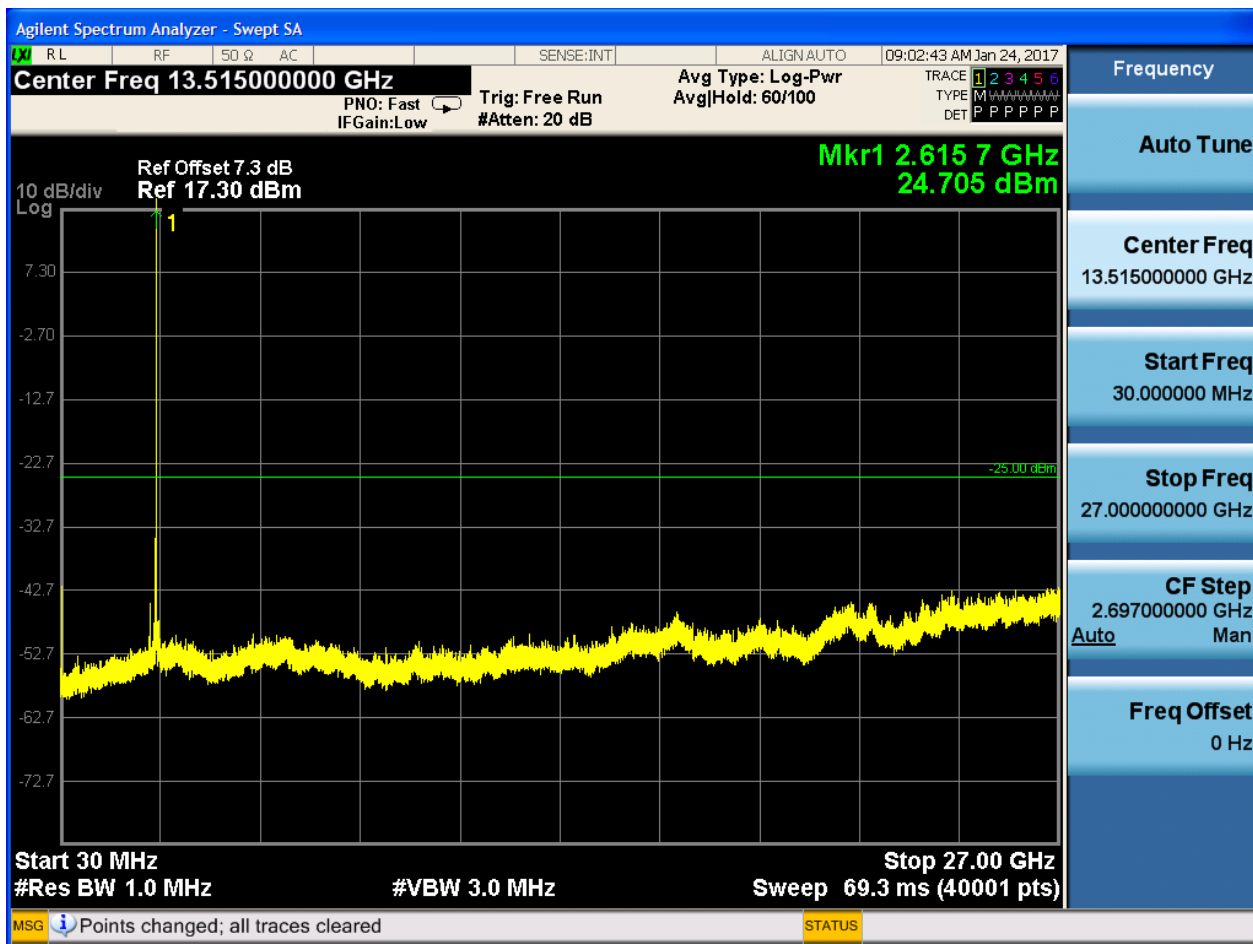


## 6.1.1.2.1.3 Test Channel = HCH

## 6.1.1.2.1.3.1 Test RB = RB1#0





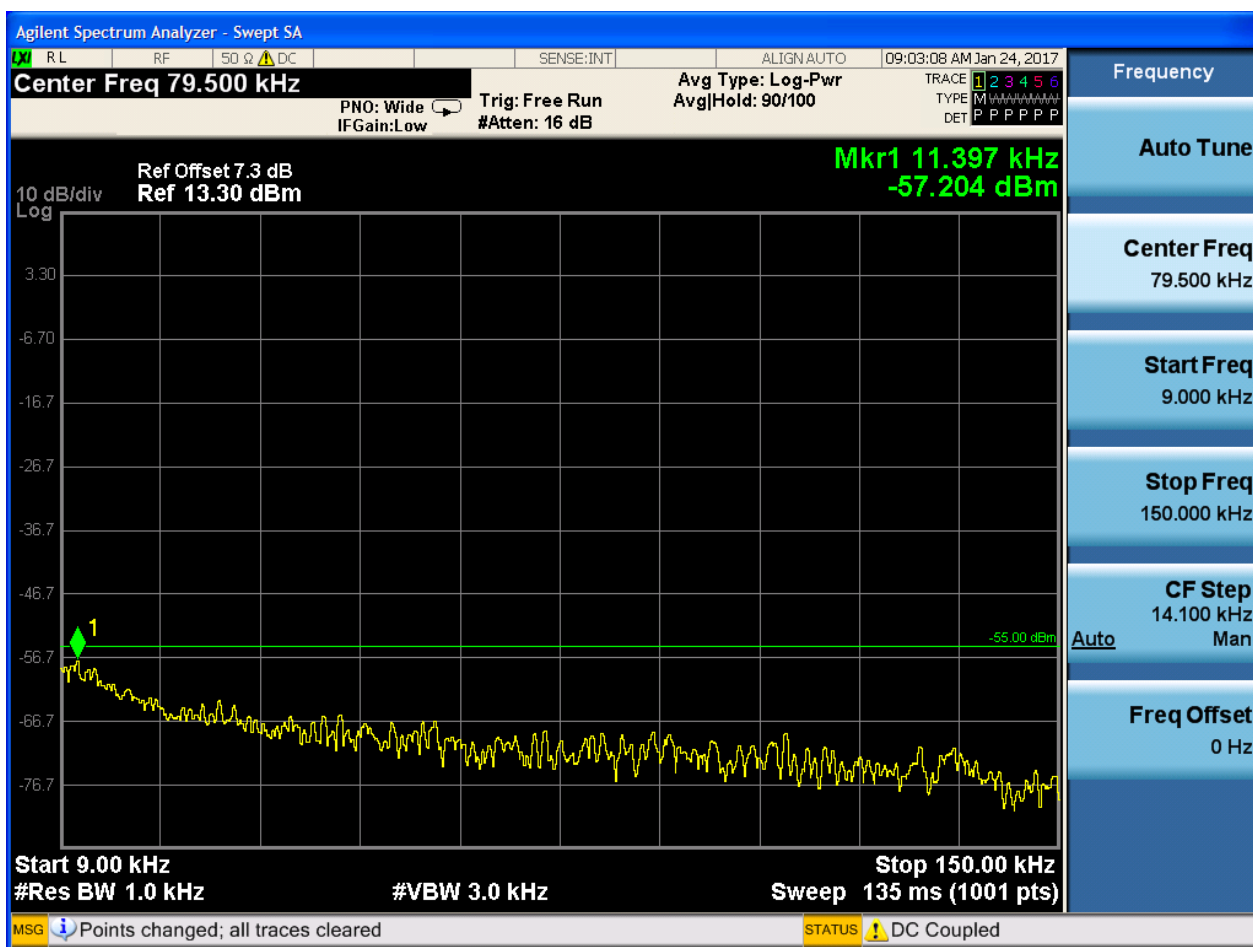


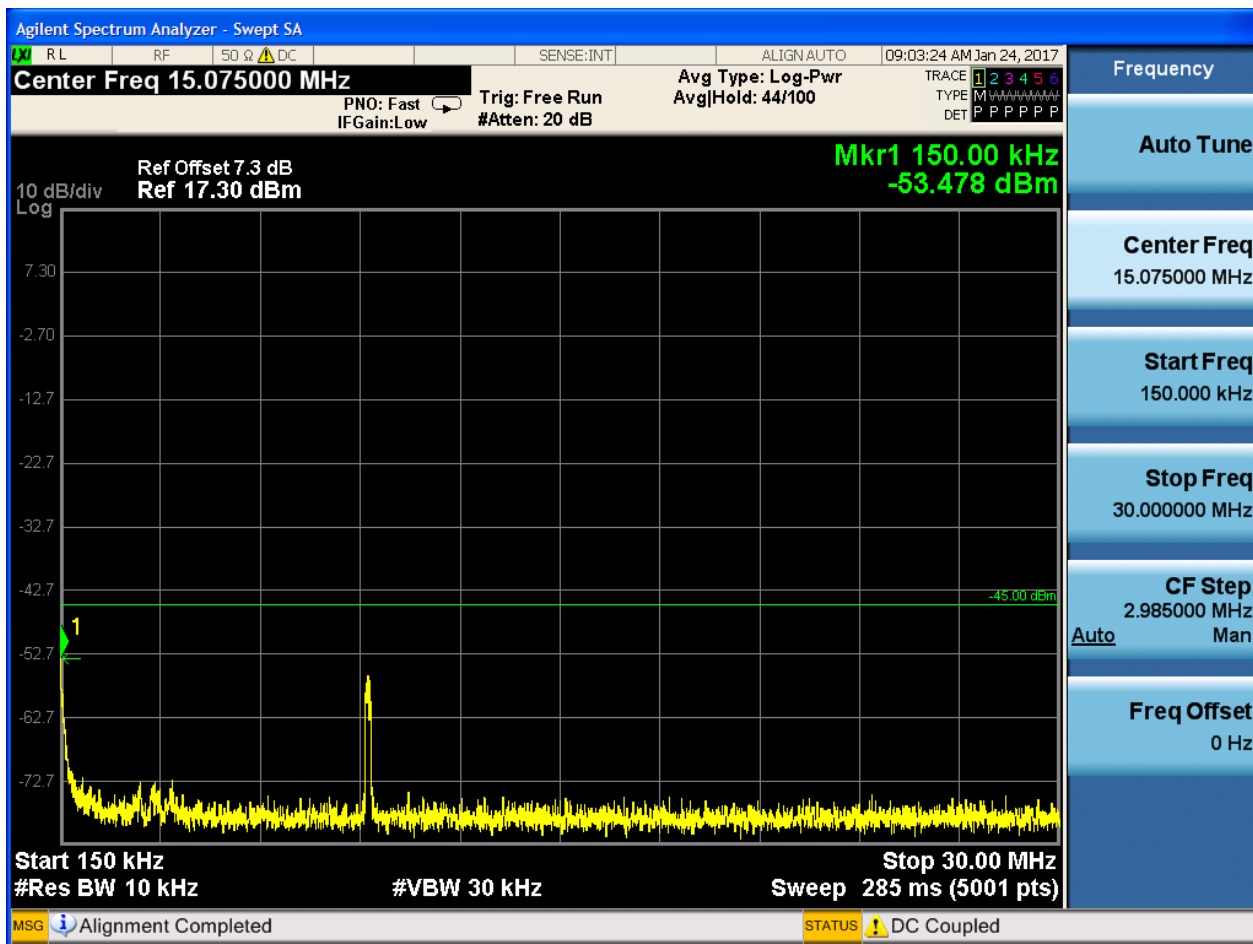


## 6.1.1.2.2 Test Bandwidth = 10

## 6.1.1.2.2.1 Test Channel = LCH

## 6.1.1.2.2.1.1 Test RB = RB1#0

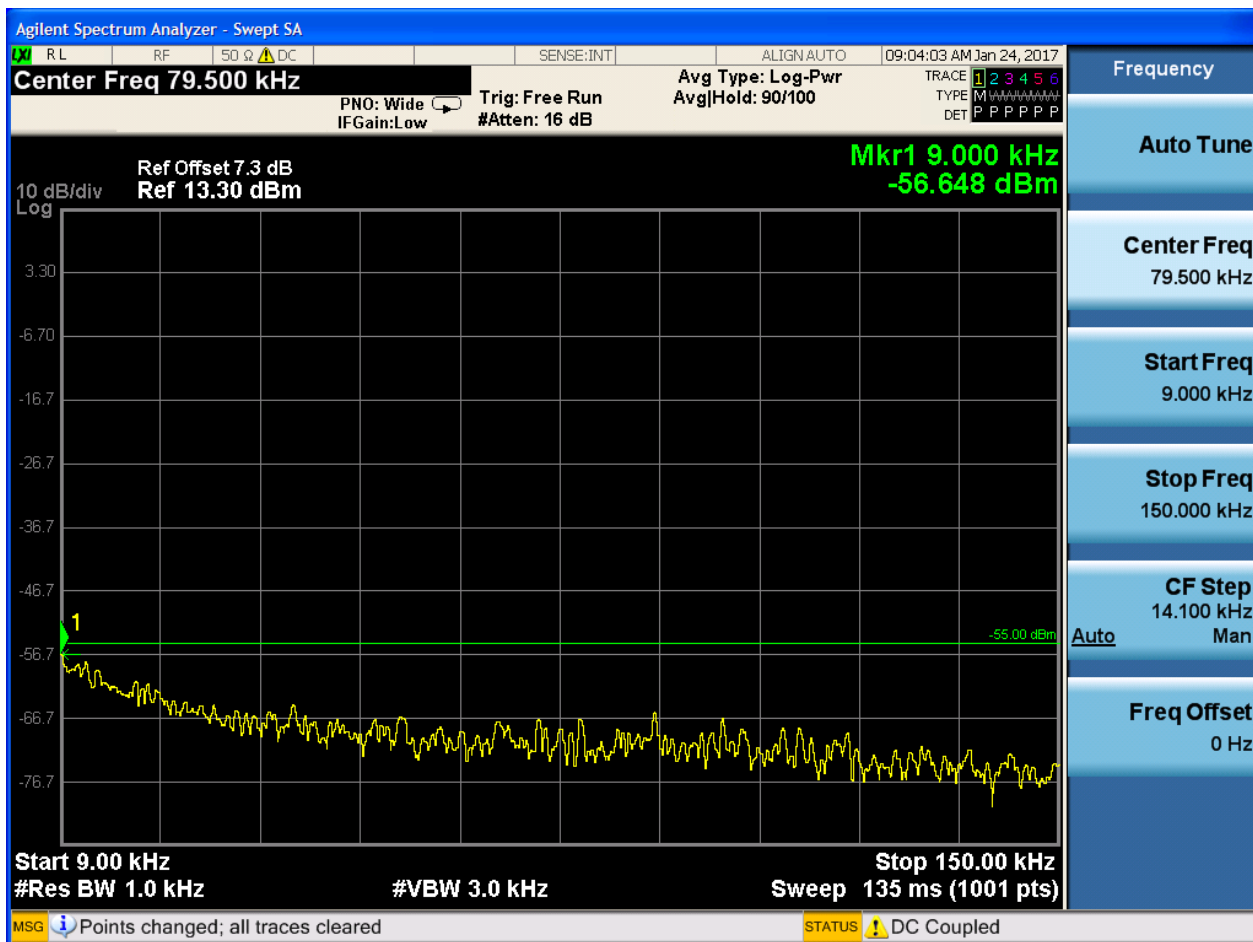






### 6.1.1.2.2.2 Test Channel = MCH

#### 6.1.1.2.2.2.1 Test RB = RB1#0

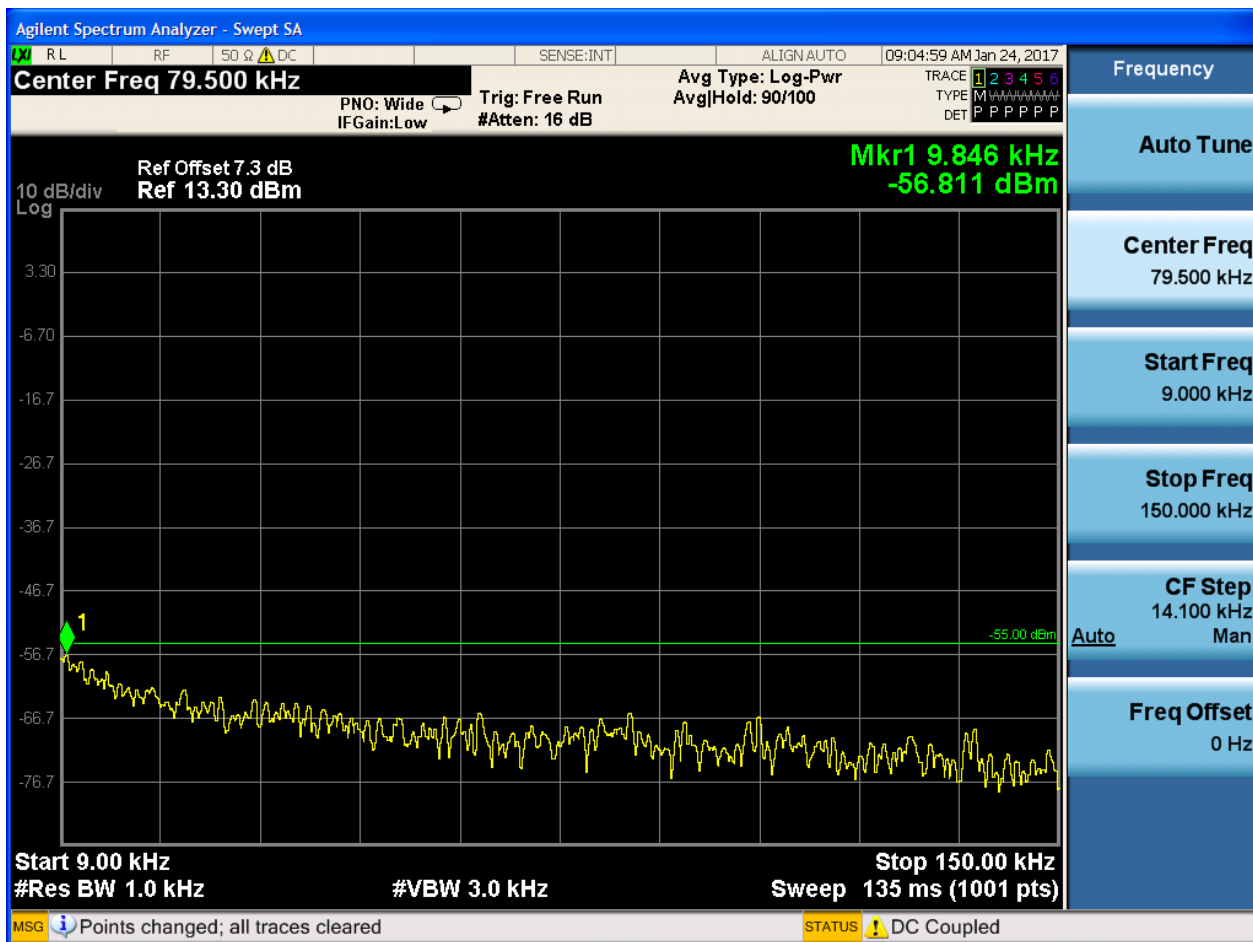




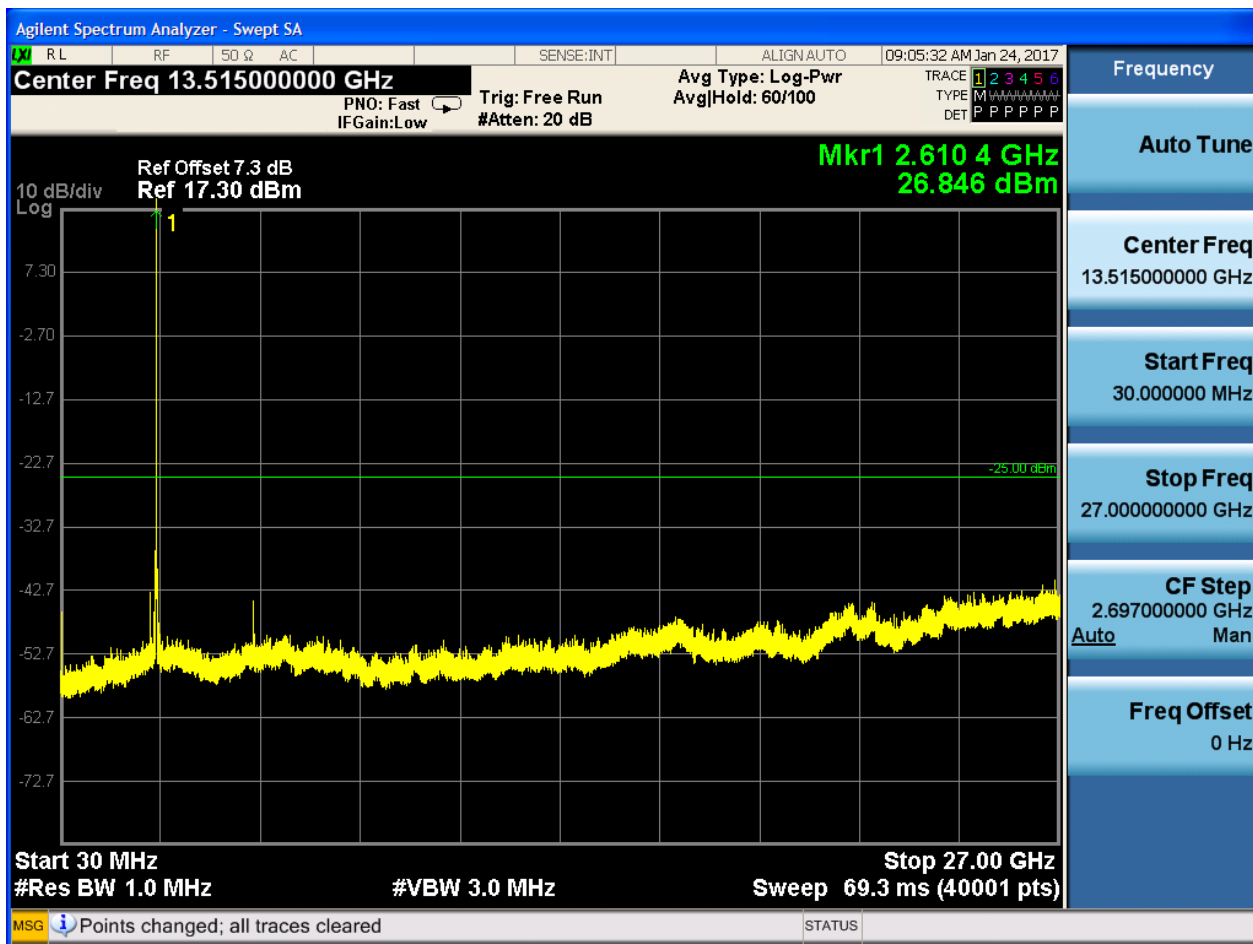


### 6.1.1.2.2.3 Test Channel = HCH

#### 6.1.1.2.2.3.1 Test RB = RB1#0





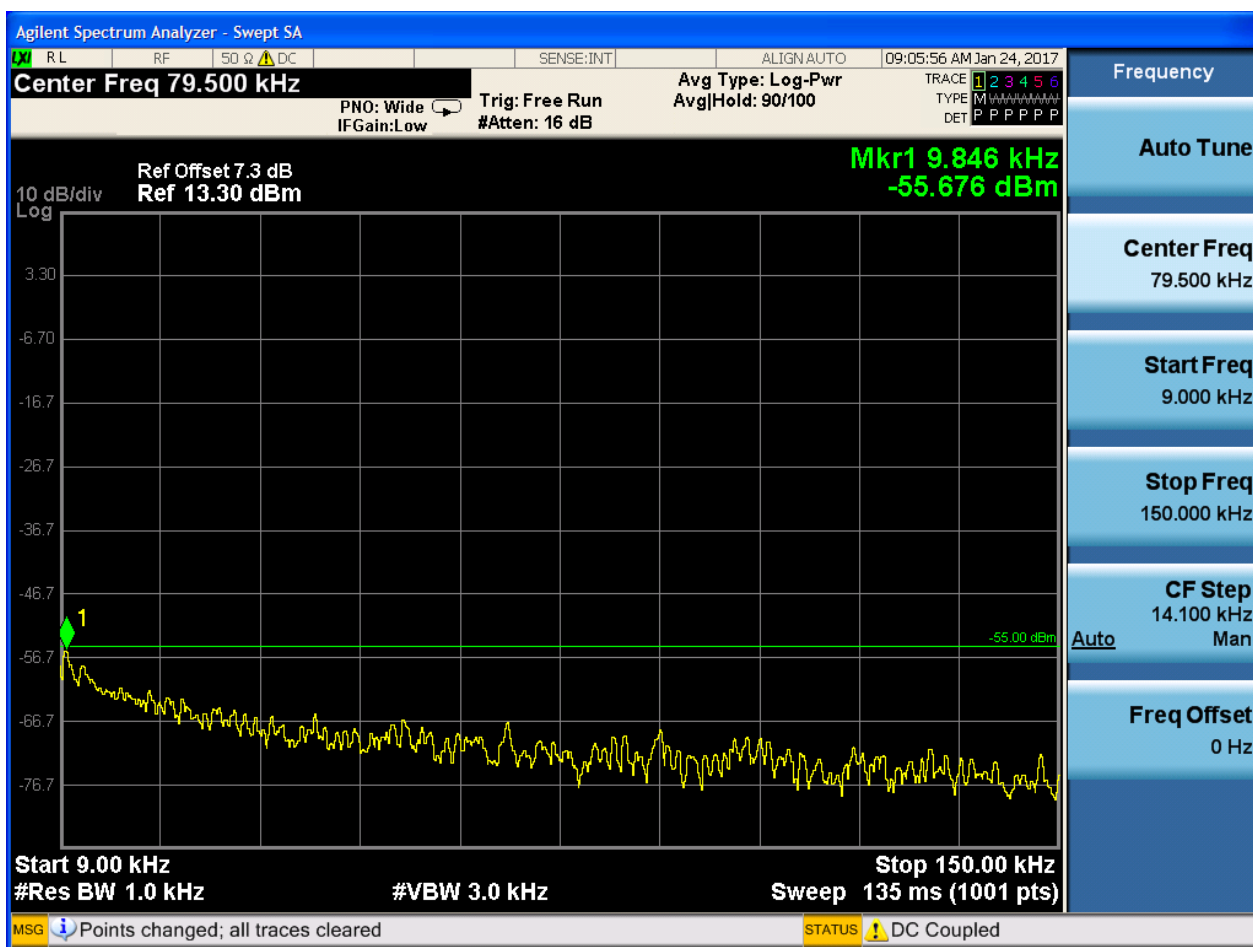




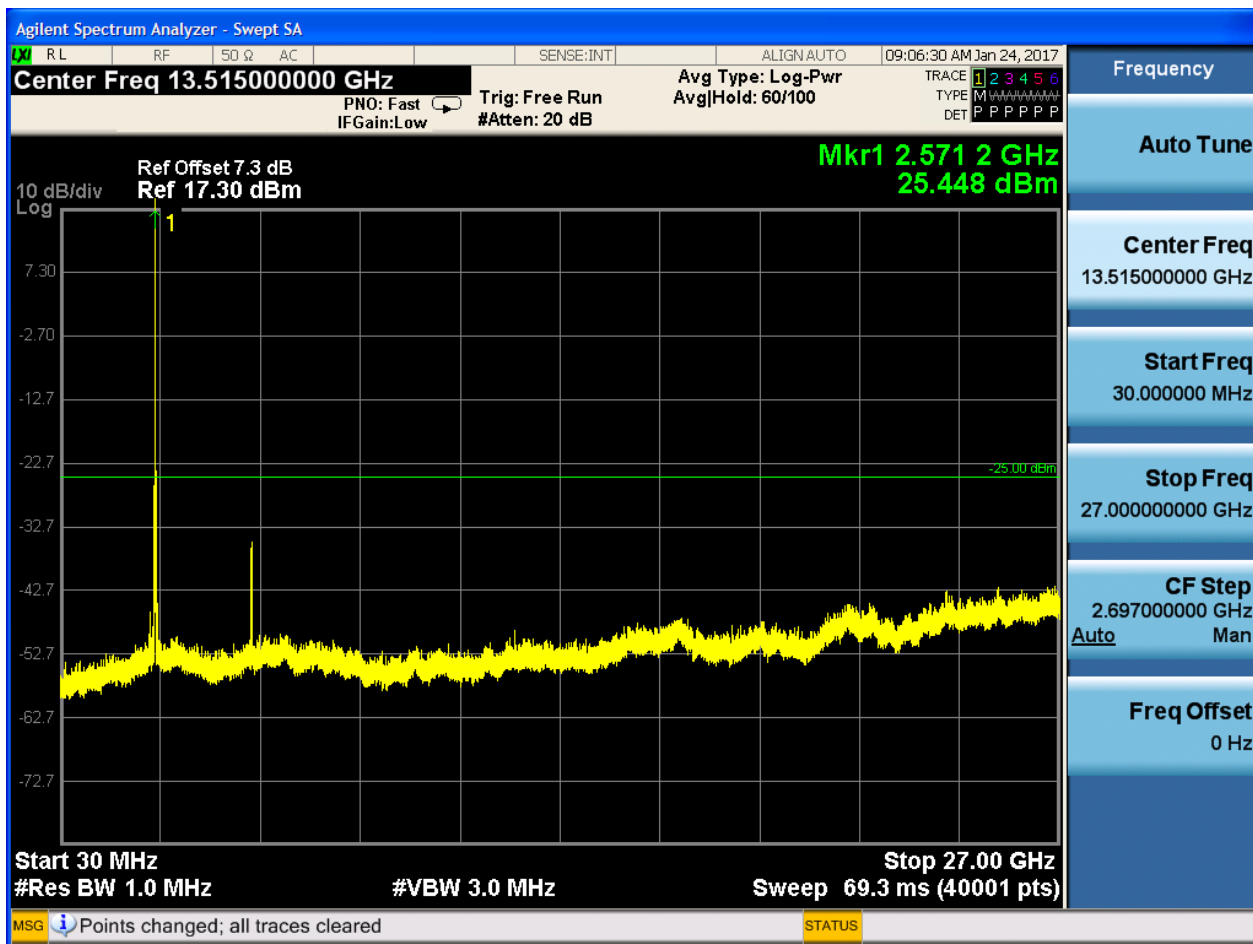
## 6.1.1.2.3 Test Bandwidth = 15

## 6.1.1.2.3.1 Test Channel = LCH

## 6.1.1.2.3.1.1 Test RB = RB1#0

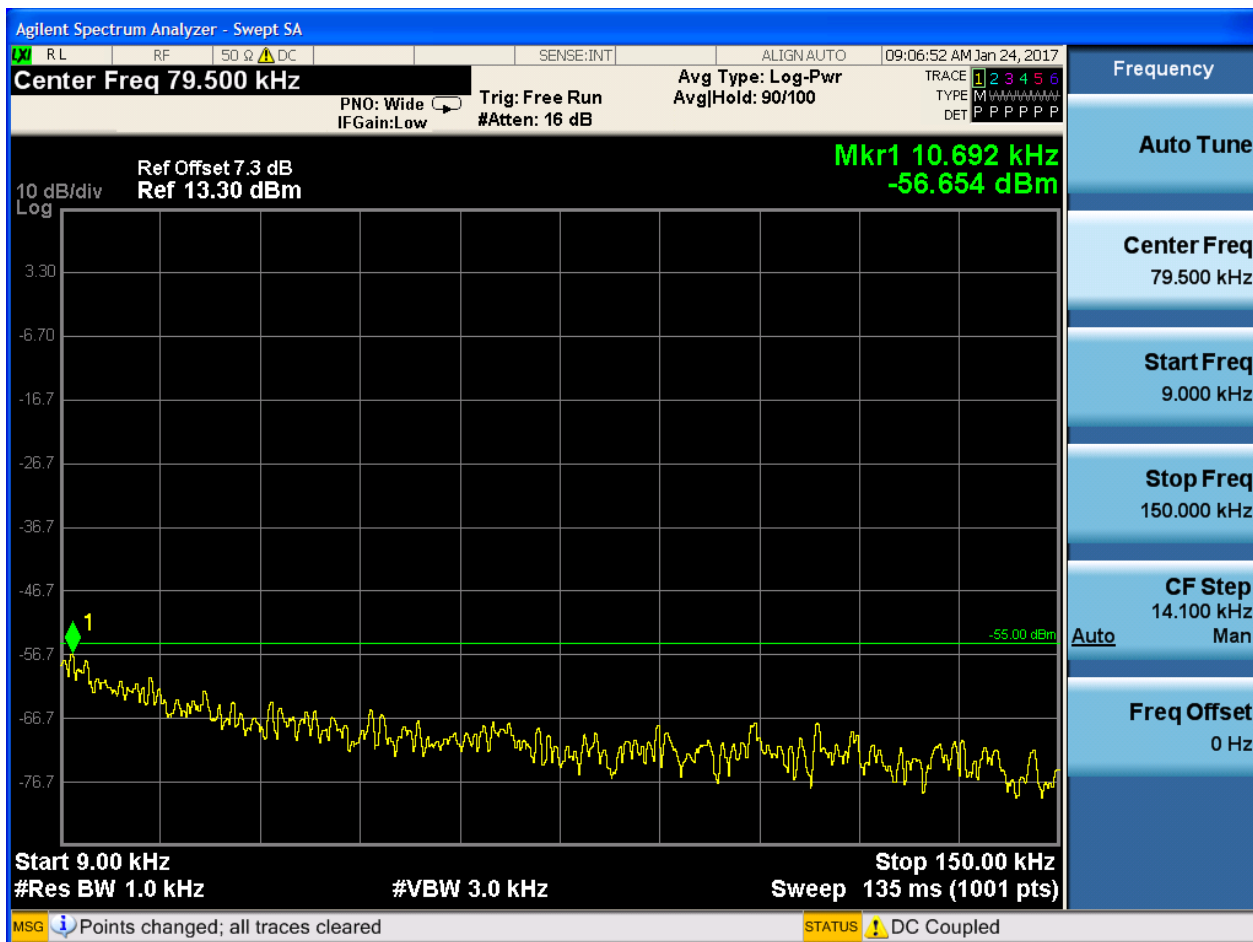




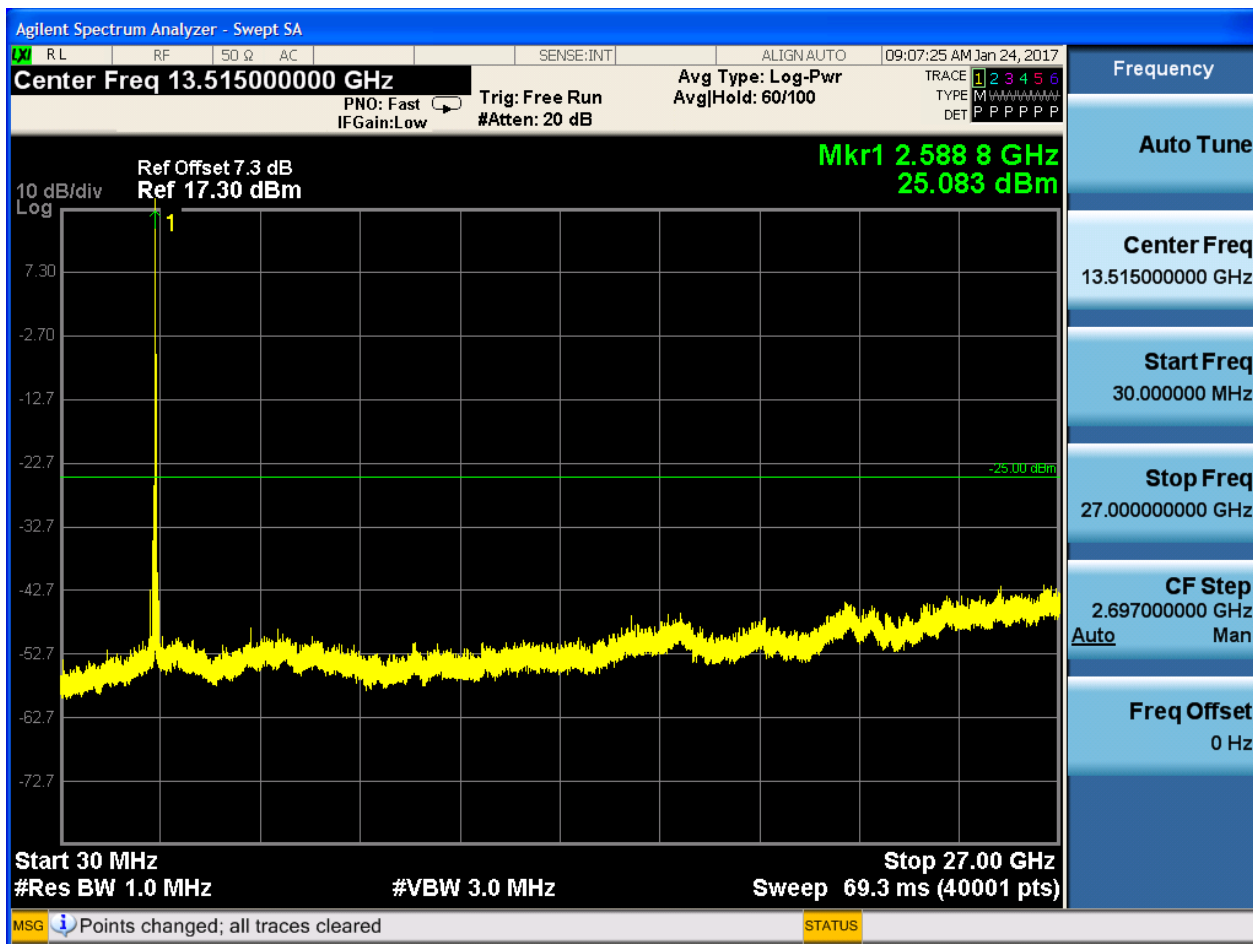


### 6.1.1.2.3.2 Test Channel = MCH

#### 6.1.1.2.3.2.1 Test RB = RB1#0



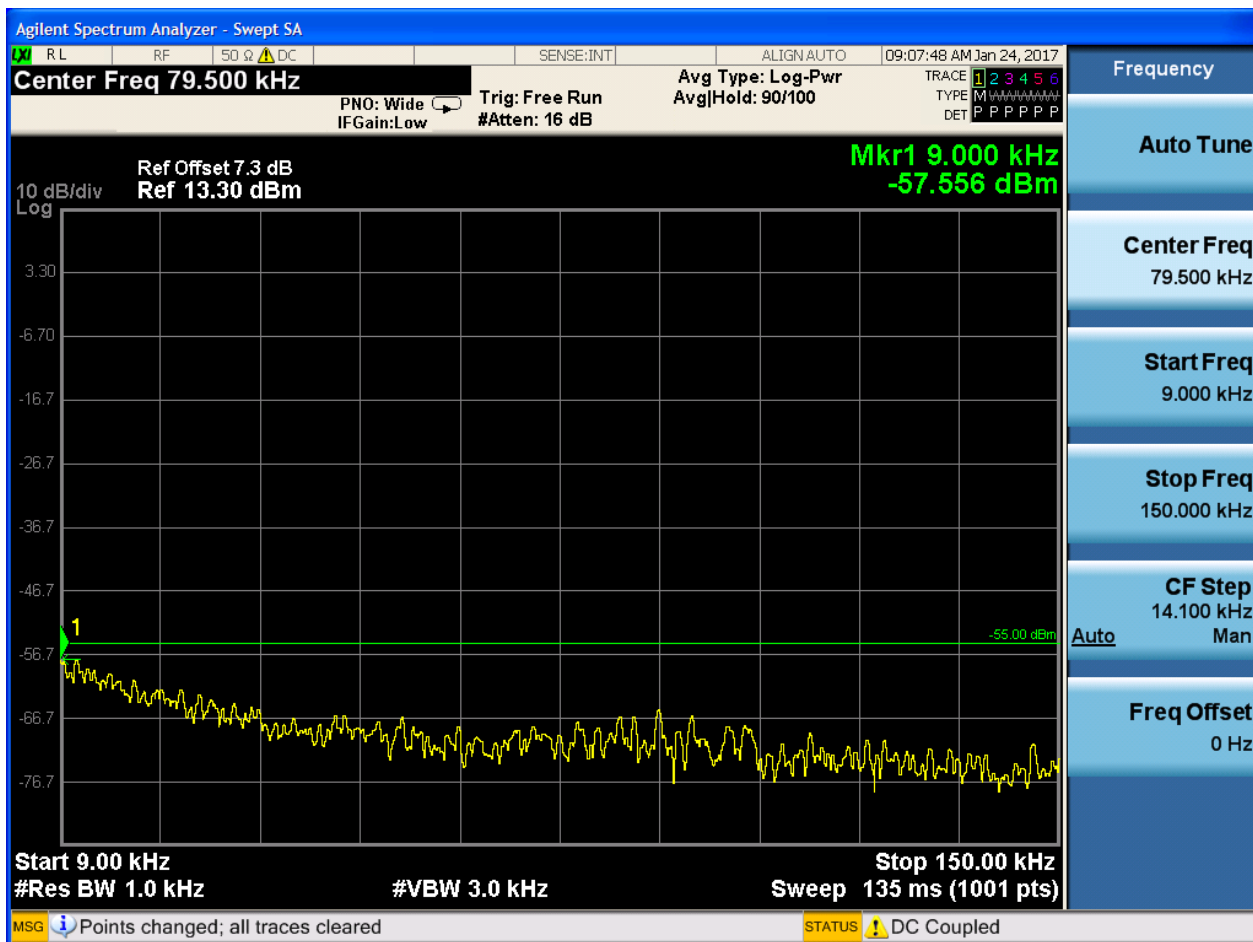


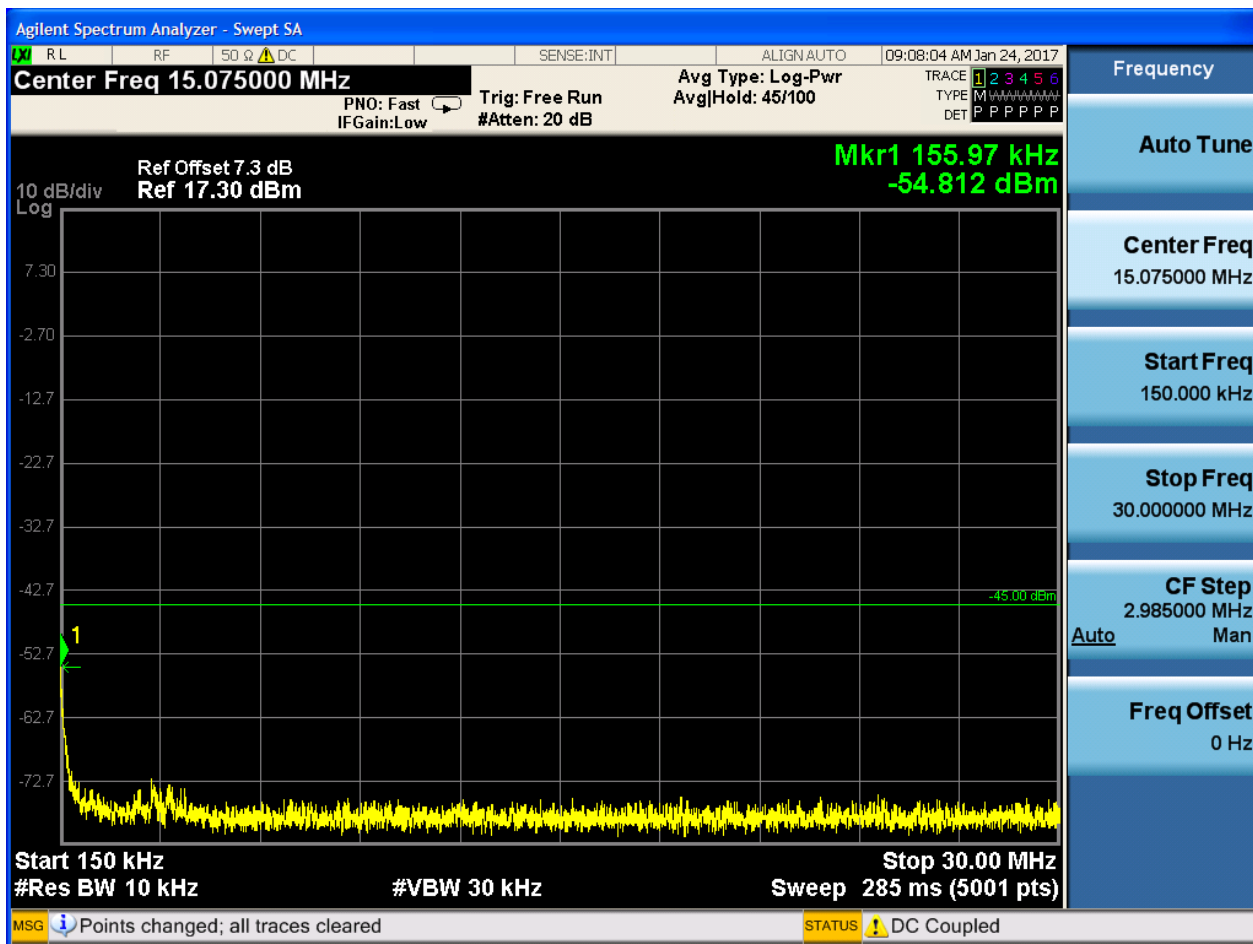


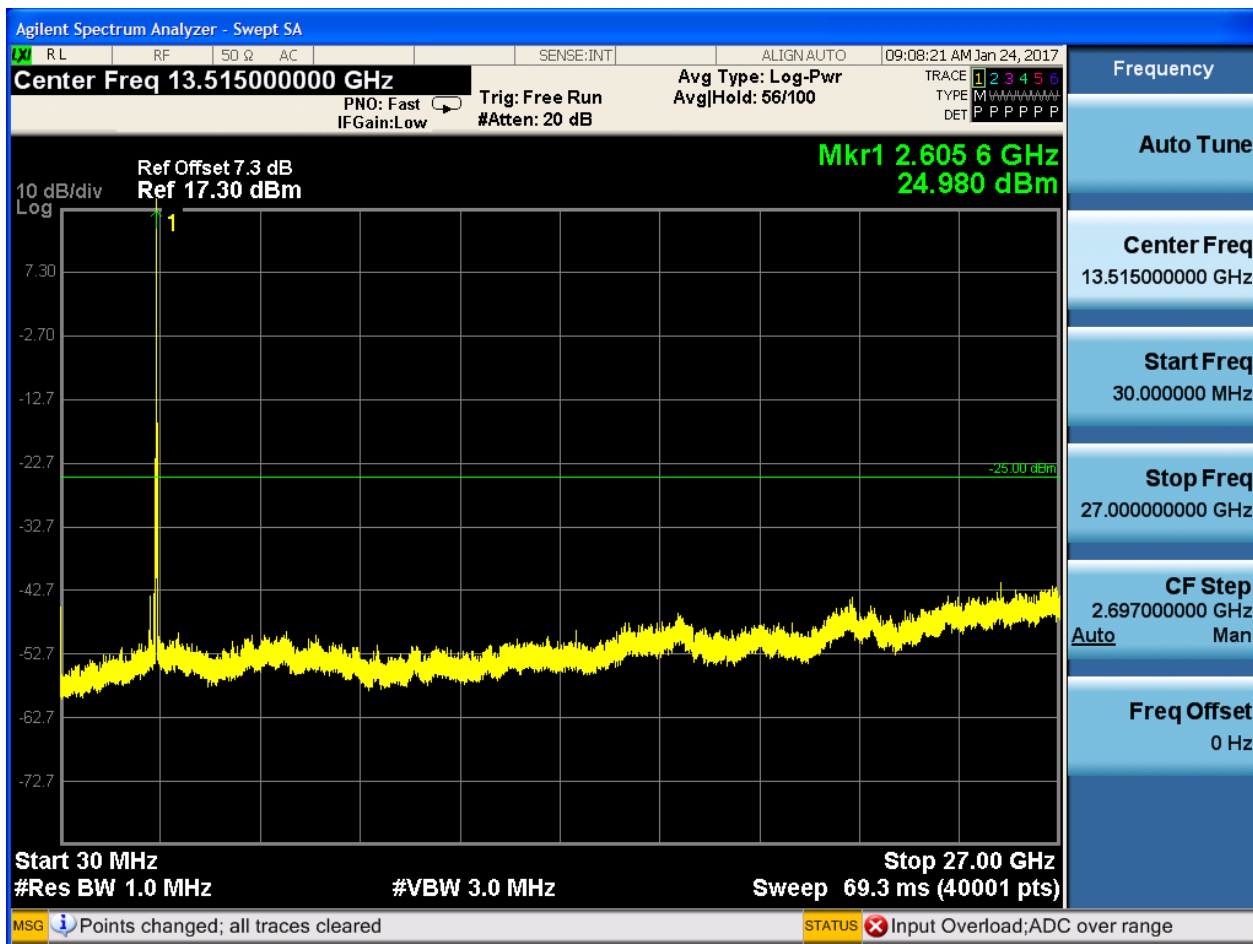


## 6.1.1.2.3.3 Test Channel = HCH

## 6.1.1.2.3.3.1 Test RB = RB1#0



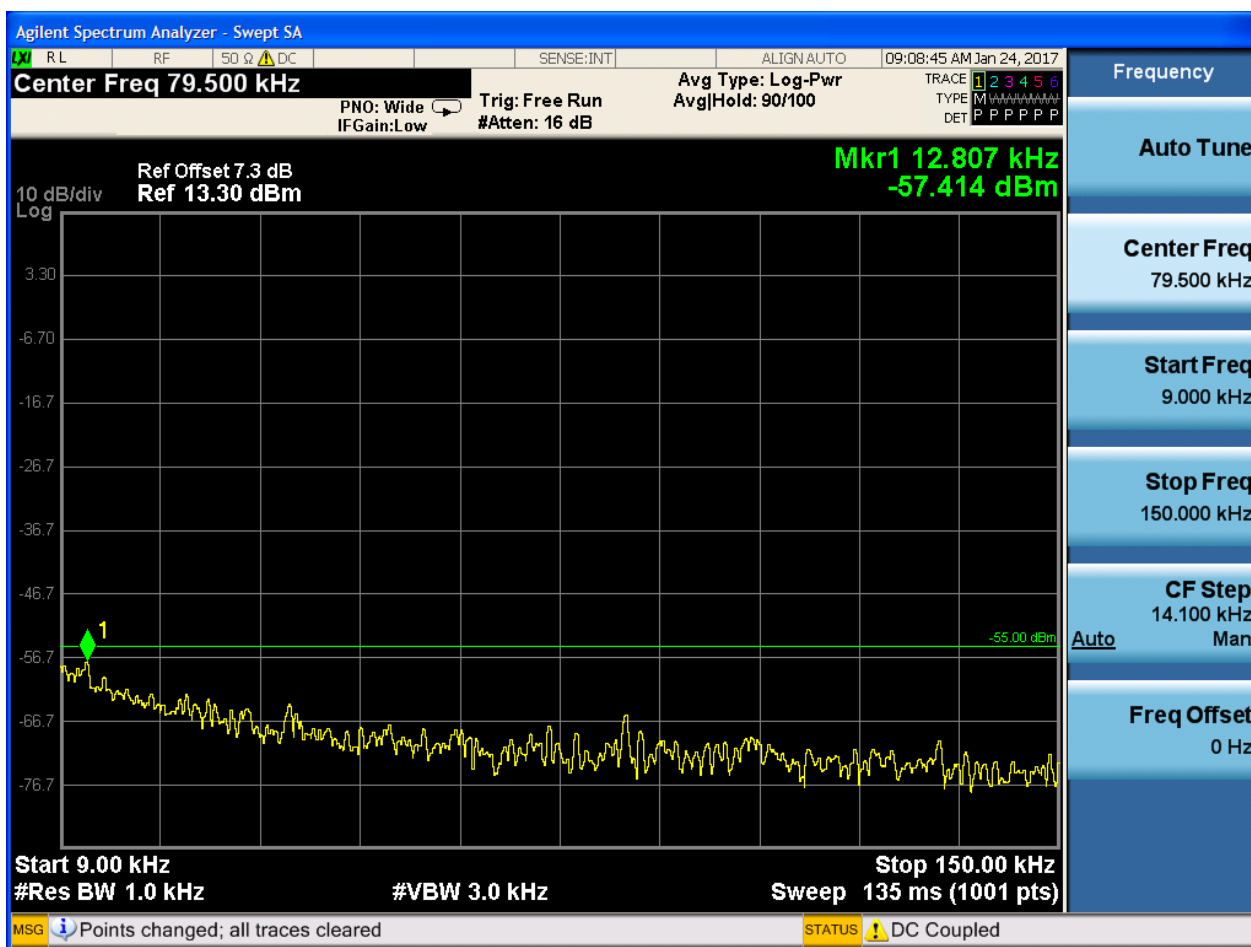


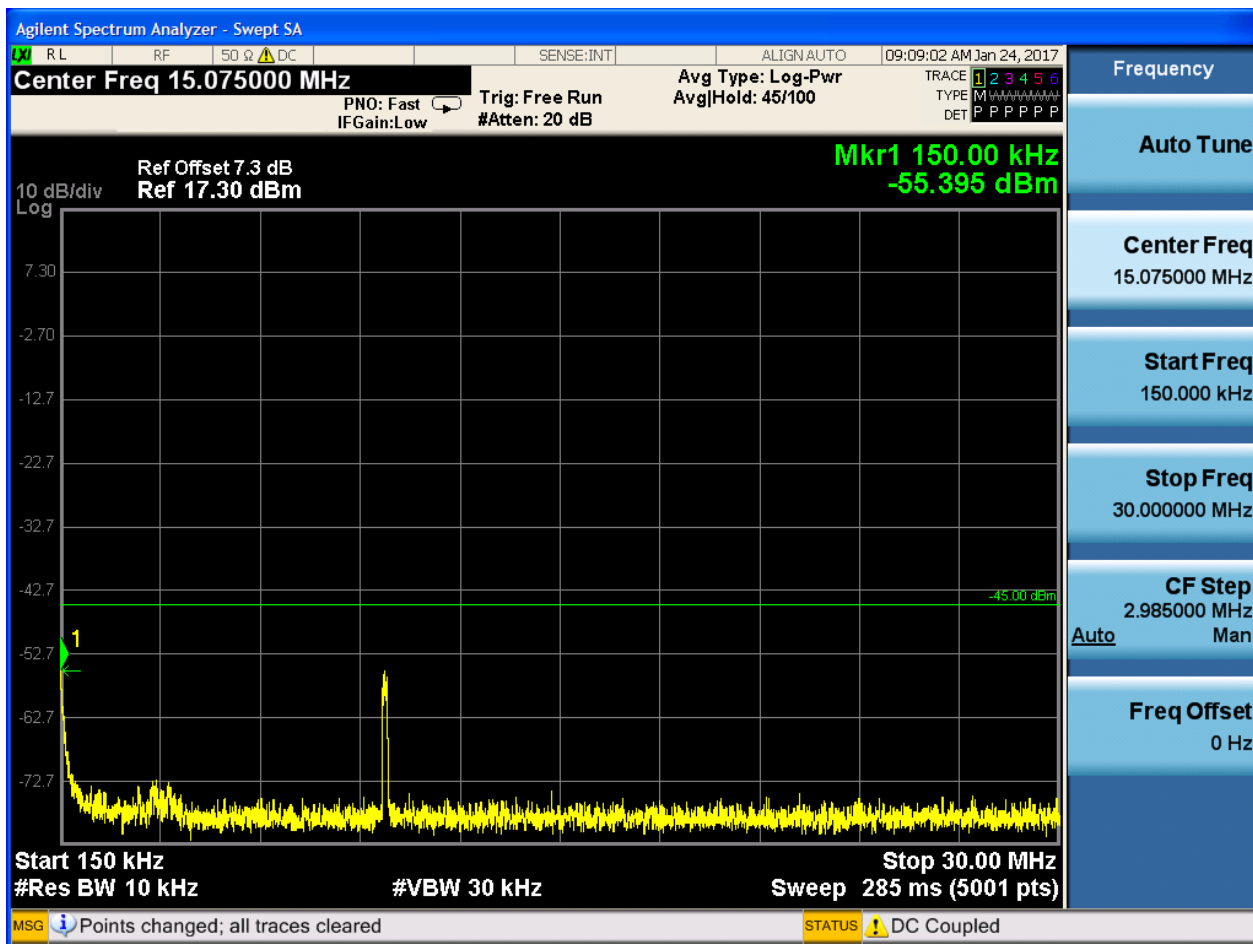


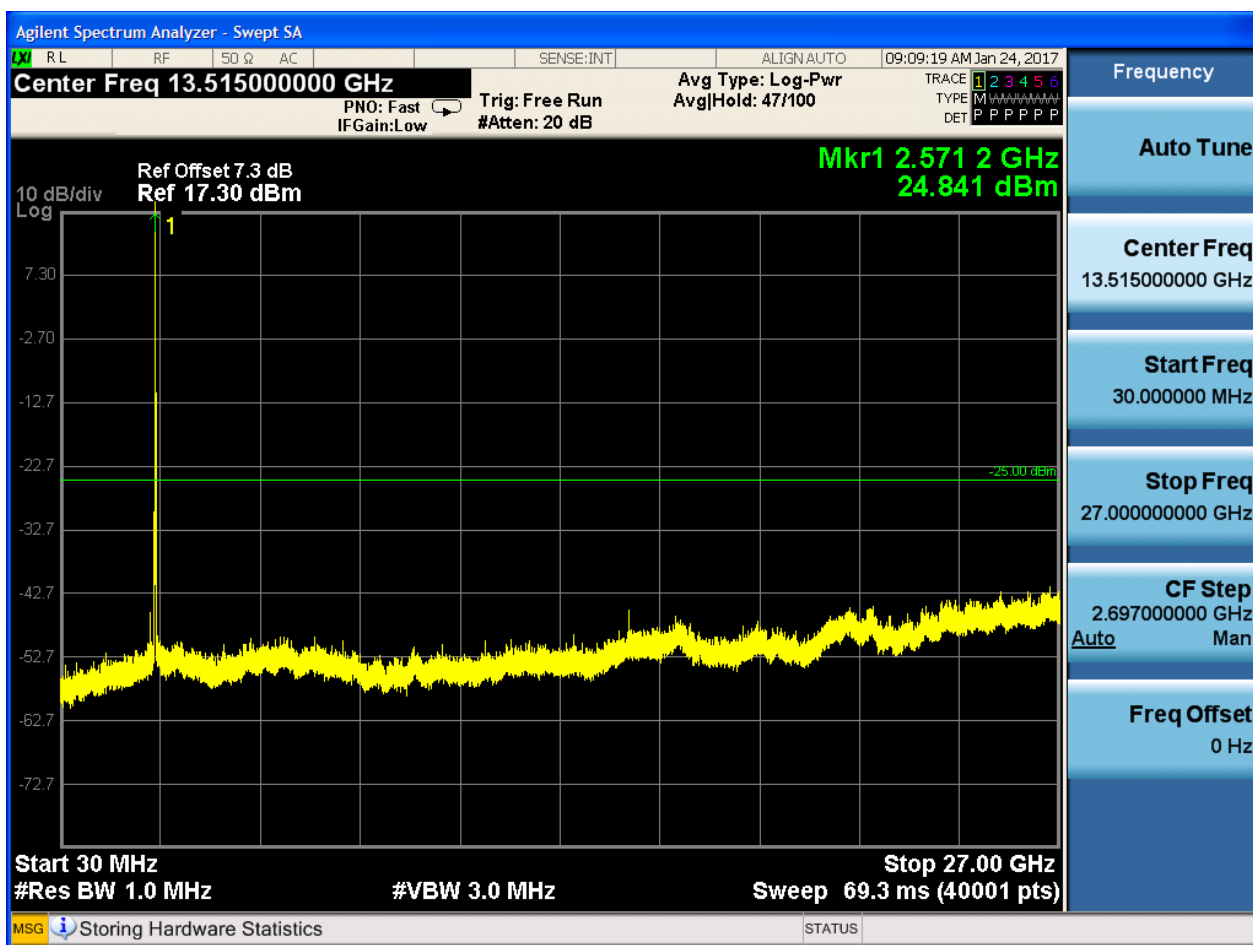
#### 6.1.1.2.4 Test Bandwidth = 20

##### 6.1.1.2.4.1 Test Channel = LCH

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



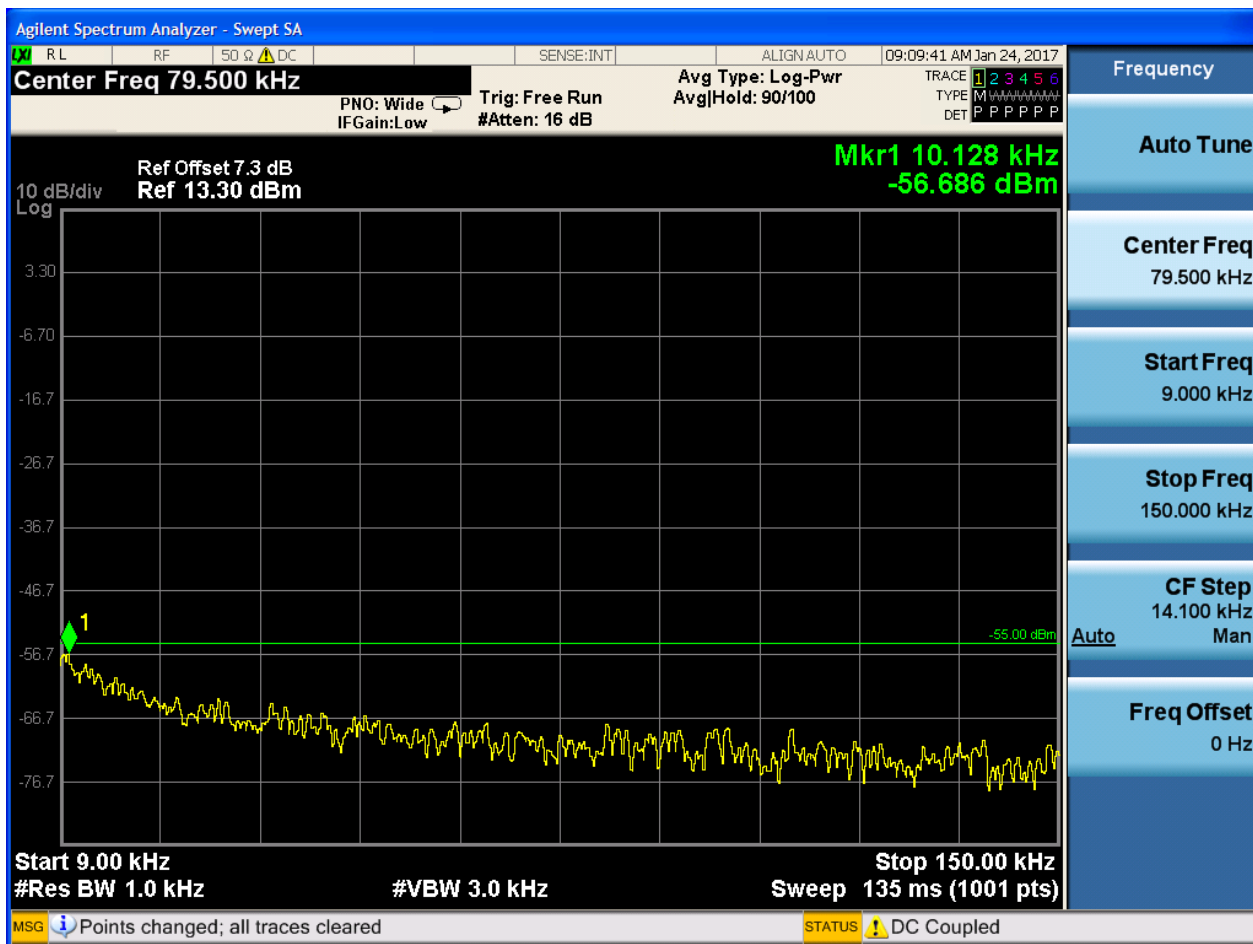






## 6.1.1.2.4.2 Test Channel = MCH

## 6.1.1.2.4.2.1 Test RB = RB1#0



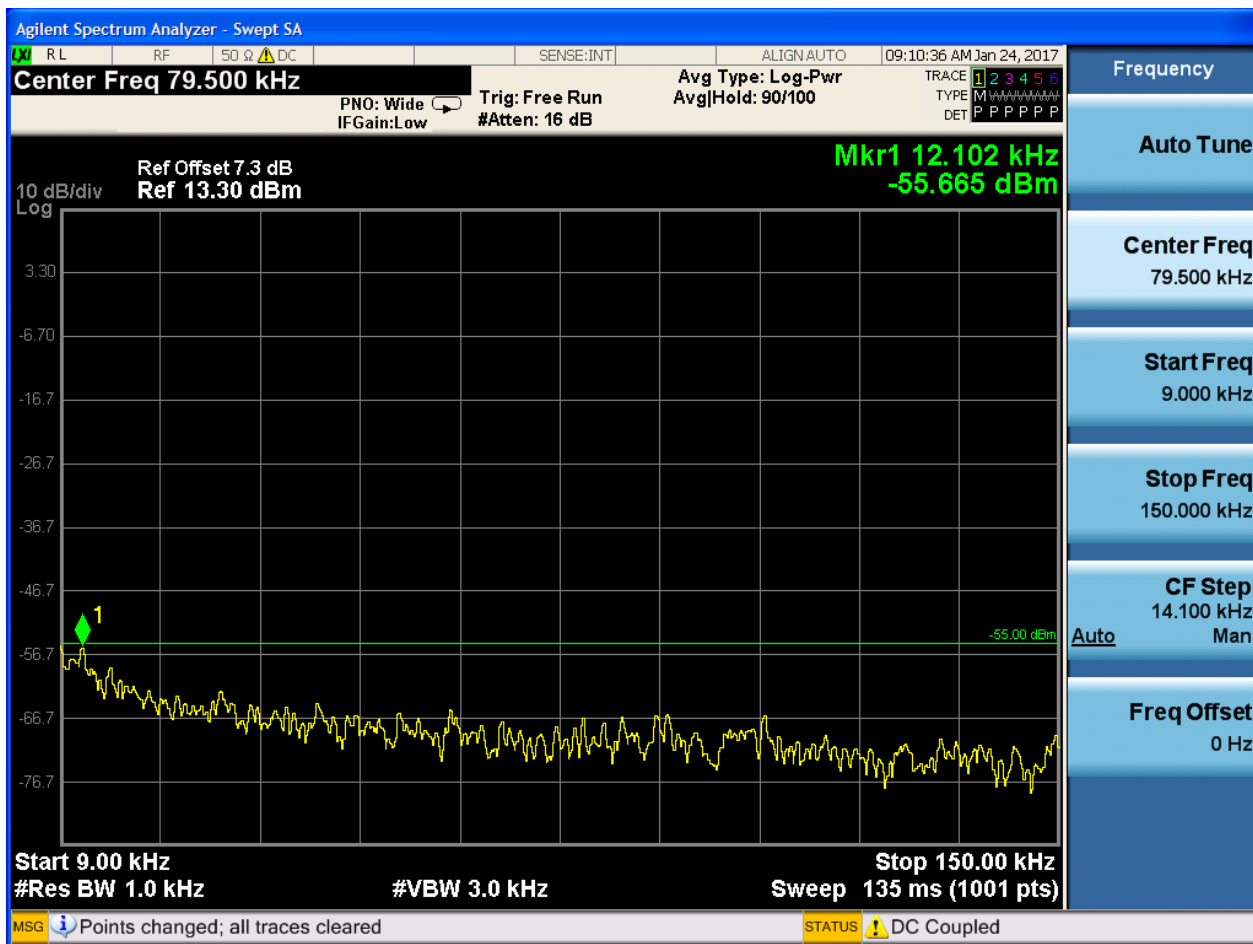


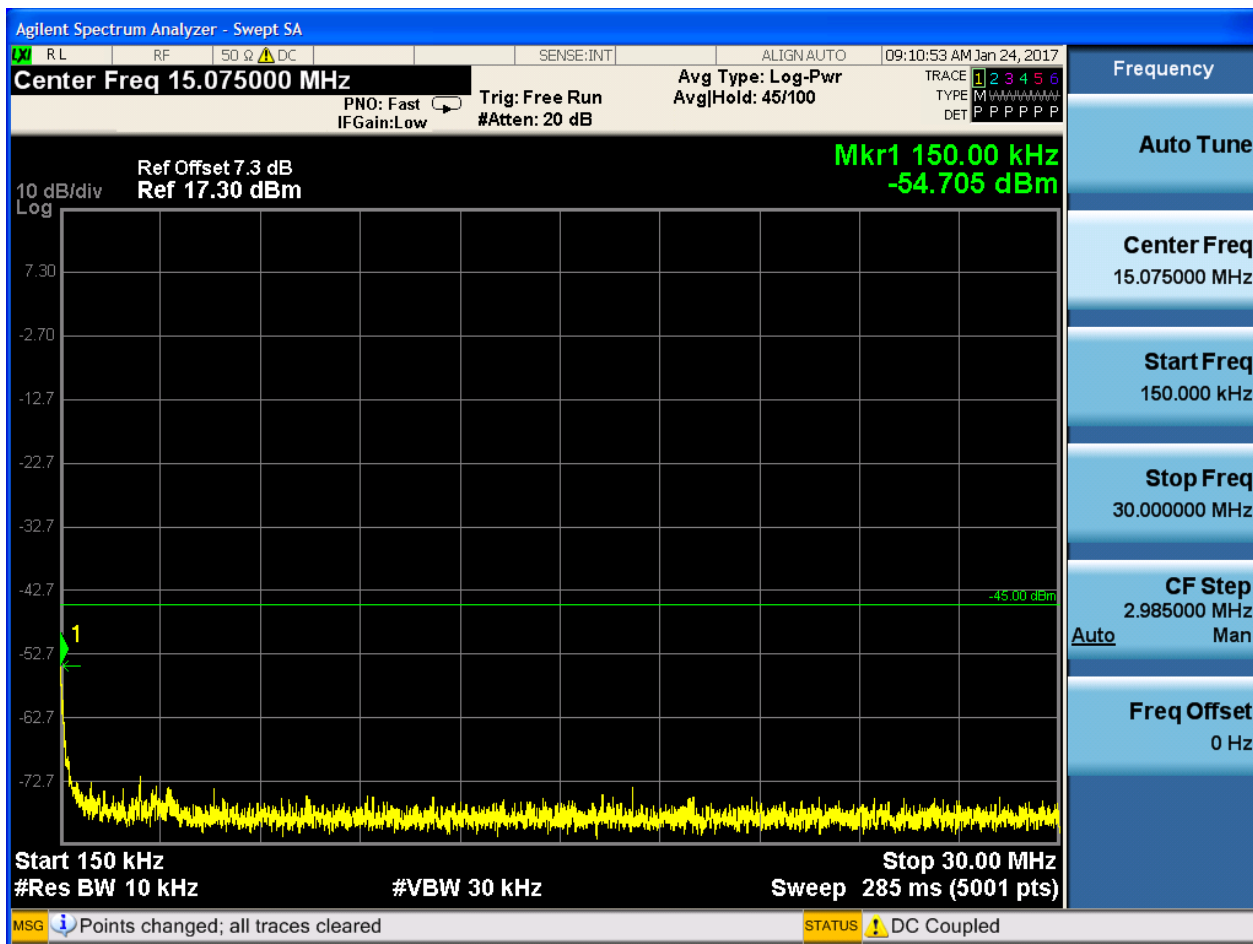


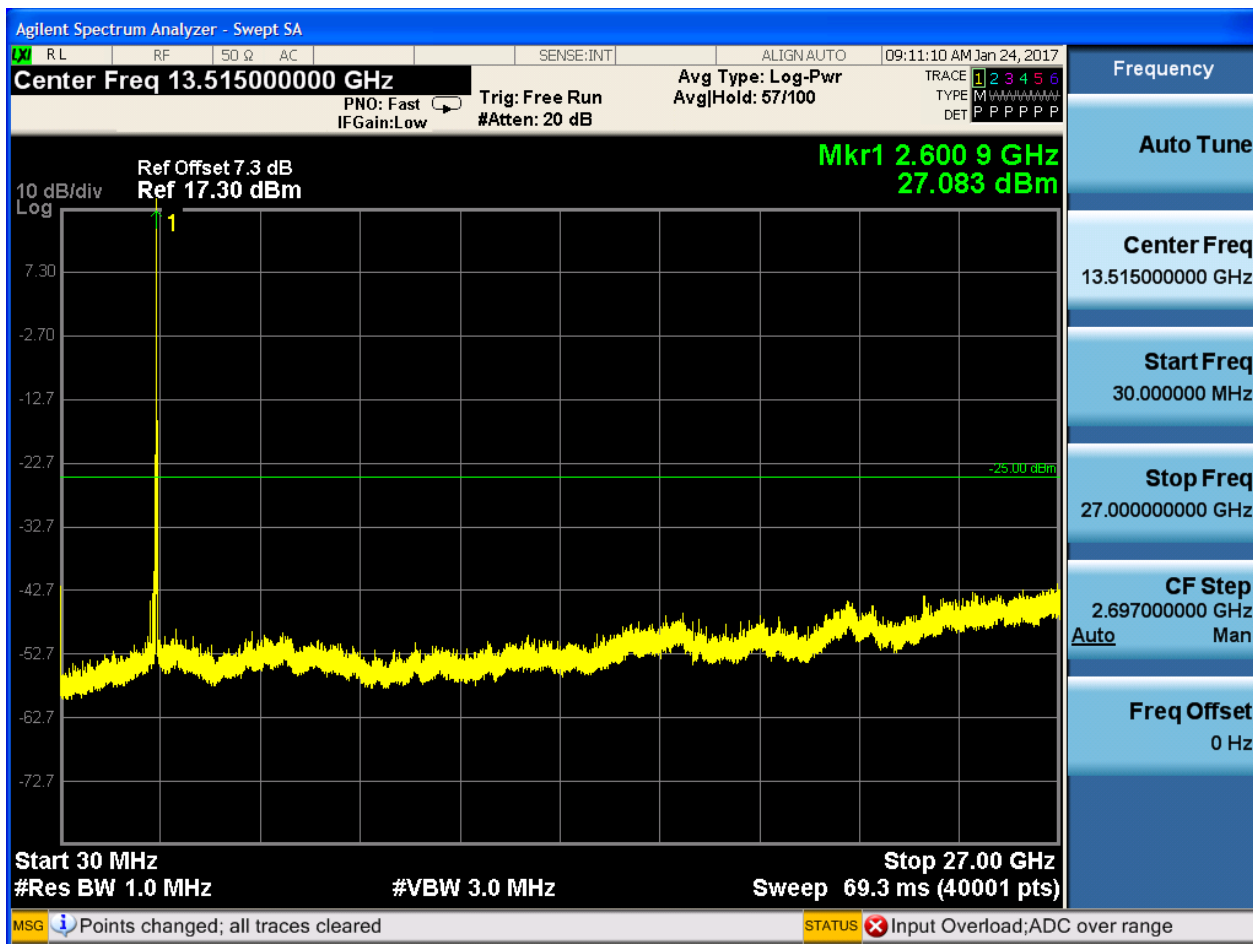


## 6.1.1.2.4.3 Test Channel = HCH

## 6.1.1.2.4.3.1 Test RB = RB1#0







## 7Appendix\_G: Frequency Stability

### 7.1 For LTE

#### 7.1.1Frequency Error vs. Voltage:

| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Temp. | Test Volt. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|------------|------------------|-----------------------|---------|
| BAND38    | LTE/TM1   | 5                    | LCH          | TN         | VL         | 2.7              | 0.00105               | PASS    |
|           |           |                      |              |            | VN         | 4.51             | 0.00175               | PASS    |
|           |           |                      |              |            | VH         | 7.94             | 0.00309               | PASS    |
|           |           |                      | MCH          | TN         | VL         | 3.03             | 0.00117               | PASS    |
|           |           |                      |              |            | VN         | -1.83            | -0.00071              | PASS    |
|           |           |                      |              |            | VH         | 4.42             | 0.0017                | PASS    |
|           |           |                      | HCH          | TN         | VL         | -1.22            | -0.00047              | PASS    |
|           |           |                      |              |            | VN         | -4.31            | -0.00165              | PASS    |
|           |           |                      |              |            | VH         | -2.07            | -0.00079              | PASS    |
|           |           | 10                   | LCH          | TN         | VL         | -1.99            | -0.00077              | PASS    |
|           |           |                      |              |            | VN         | -4.15            | -0.00161              | PASS    |
|           |           |                      |              |            | VH         | -9.14            | -0.00355              | PASS    |
|           |           |                      | MCH          | TN         | VL         | 5.78             | 0.00223               | PASS    |
|           |           |                      |              |            | VN         | -0.53            | -0.0002               | PASS    |
|           |           |                      |              |            | VH         | -14.36           | -0.00553              | PASS    |
|           |           |                      | HCH          | TN         | VL         | 3.39             | 0.0013                | PASS    |
|           |           |                      |              |            | VN         | 20.06            | 0.00767               | PASS    |
|           |           |                      |              |            | VH         | 24.98            | 0.00955               | PASS    |
|           |           | 15                   | LCH          | TN         | VL         | -2.95            | -0.00114              | PASS    |
|           |           |                      |              |            | VN         | -7.84            | -0.00304              | PASS    |
|           |           |                      |              |            | VH         | -0.37            | -0.00014              | PASS    |
|           |           |                      | MCH          | TN         | VL         | 5.76             | 0.00222               | PASS    |
|           |           |                      |              |            | VN         | -17.42           | -0.00671              | PASS    |
|           |           |                      |              |            | VH         | -3.81            | -0.00147              | PASS    |
|           |           |                      | HCH          | TN         | VL         | -81.62           | -0.03124              | PASS    |
|           |           |                      |              |            | VN         | 37.08            | 0.01419               | PASS    |
|           |           |                      |              |            | VH         | 33.72            | 0.01291               | PASS    |
|           |           | 20                   | LCH          | TN         | VL         | -0.83            | -0.00032              | PASS    |
|           |           |                      |              |            | VN         | -3.96            | -0.00153              | PASS    |
|           |           |                      |              |            | VH         | -5.02            | -0.00195              | PASS    |

| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Temp. | Test Volt. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|------------|------------------|-----------------------|---------|
|           |           |                      | MCH          | TN         | VL         | -3.65            | -0.00141              | PASS    |
|           |           |                      |              |            | VN         | 6.49             | 0.0025                | PASS    |
|           |           |                      |              |            | VH         | 1.69             | 0.00065               | PASS    |
|           |           |                      | HCH          | TN         | VL         | 41.1             | 0.01575               | PASS    |
|           |           |                      |              |            | VN         | 17.34            | 0.00664               | PASS    |
|           |           |                      |              |            | VH         | 39.73            | 0.01522               | PASS    |
|           |           | 5                    | LCH          | TN         | VL         | 0.54             | 0.00021               | PASS    |
|           |           |                      |              |            | VN         | 1.75             | 0.00068               | PASS    |
|           |           |                      |              |            | VH         | -0.41            | -0.00016              | PASS    |
|           |           |                      | MCH          | TN         | VL         | 3.55             | 0.00137               | PASS    |
|           |           |                      |              |            | VN         | 8.1              | 0.00312               | PASS    |
|           |           |                      |              |            | VH         | 4.08             | 0.00157               | PASS    |
|           |           |                      | HCH          | TN         | VL         | -2.8             | -0.00107              | PASS    |
|           |           |                      |              |            | VN         | -4.15            | -0.00159              | PASS    |
|           |           |                      |              |            | VH         | -11.19           | -0.00428              | PASS    |
|           |           | 10                   | LCH          | TN         | VL         | -2.06            | -0.0008               | PASS    |
|           |           |                      |              |            | VN         | -8.14            | -0.00316              | PASS    |
|           |           |                      |              |            | VH         | -1.67            | -0.00065              | PASS    |
|           |           |                      | MCH          | TN         | VL         | -6.15            | -0.00237              | PASS    |
|           |           |                      |              |            | VN         | 5.71             | 0.0022                | PASS    |
|           |           |                      |              |            | VH         | -2.56            | -0.00099              | PASS    |
|           |           |                      | HCH          | TN         | VL         | 148.27           | 0.0567                | PASS    |
|           |           |                      |              |            | VN         | 164.28           | 0.06282               | PASS    |
|           |           |                      |              |            | VH         | 130.28           | 0.04982               | PASS    |
|           |           | 15                   | LCH          | TN         | VL         | -2.49            | -0.00097              | PASS    |
|           |           |                      |              |            | VN         | 3.18             | 0.00123               | PASS    |
|           |           |                      |              |            | VH         | -4.29            | -0.00166              | PASS    |
|           |           |                      | MCH          | TN         | VL         | -0.27            | -0.0001               | PASS    |
|           |           |                      |              |            | VN         | 0.1              | 0.00004               | PASS    |
|           |           |                      |              |            | VH         | -3.89            | -0.0015               | PASS    |
|           |           |                      | HCH          | TN         | VL         | 37.51            | 0.01436               | PASS    |
|           |           |                      |              |            | VN         | 46.05            | 0.01763               | PASS    |
|           |           |                      |              |            | VH         | 8.6              | 0.00329               | PASS    |
|           |           | 20                   | LCH          | TN         | VL         | -6.52            | -0.00253              | PASS    |
|           |           |                      |              |            | VN         | -1.19            | -0.00046              | PASS    |
|           |           |                      |              |            | VH         | -3.53            | -0.00137              | PASS    |
|           |           |                      | MCH          | TN         | VL         | -2.15            | -0.00083              | PASS    |
|           |           |                      |              |            | VN         | -2.72            | -0.00105              | PASS    |
|           |           |                      |              |            | VH         | -1.47            | -0.00057              | PASS    |

| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Temp. | Test Volt. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|------------|------------------|-----------------------|---------|
|           |           |                      | HCH          | TN         | VL         | 48.18            | 0.01846               | PASS    |
|           |           |                      |              |            | VN         | -20.81           | -0.00797              | PASS    |
|           |           |                      |              |            | VH         | 15.25            | 0.00584               | PASS    |

### 7.1.2 Frequency Error vs. Temperature:

| Test Band  | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Volt. | Test Temp | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|------------|-----------|----------------------|--------------|------------|-----------|------------------|-----------------------|---------|
| BAND3<br>8 | LTE/TM1   | 5                    | LCH          | VN         | -30       | -10.39           | -0.00404              | PASS    |
|            |           |                      |              |            | -20       | -4.32            | -0.00168              | PASS    |
|            |           |                      |              |            | -10       | 4.41             | 0.00171               | PASS    |
|            |           |                      |              |            | 0         | -3.28            | -0.00126              | PASS    |
|            |           |                      |              |            | 10        | -9.9             | -0.00382              | PASS    |
|            |           |                      |              |            | 20        | -6.27            | -0.00242              | PASS    |
|            |           |                      |              |            | 30        | -1.07            | -0.00041              | PASS    |
|            |           |                      |              |            | 40        | -2.7             | -0.00103              | PASS    |
|            |           |                      |              |            | 50        | -1.76            | -0.00067              | PASS    |
|            |           |                      | MCH          | VN         | -30       | -17.81           | -0.00692              | PASS    |
|            |           |                      |              |            | -20       | -6.41            | -0.00249              | PASS    |
|            |           |                      |              |            | -10       | 7.58             | 0.00294               | PASS    |
|            |           |                      |              |            | 0         | 20.93            | 0.00807               | PASS    |
|            |           |                      |              |            | 10        | 31.04            | 0.01196               | PASS    |
|            |           |                      |              |            | 20        | 11               | 0.00424               | PASS    |
|            |           |                      |              |            | 30        | -1.92            | -0.00073              | PASS    |
|            |           |                      |              |            | 40        | -1.44            | -0.00055              | PASS    |
|            |           |                      |              |            | 50        | -2.75            | -0.00105              | PASS    |
|            |           |                      | HCH          | VN         | -30       | -6.61            | -0.00256              | PASS    |
|            |           |                      |              |            | -20       | 5.48             | 0.00213               | PASS    |
|            |           |                      |              |            | -10       | -10.87           | -0.00422              | PASS    |
|            |           |                      |              |            | 0         | 11.22            | 0.00432               | PASS    |
|            |           |                      |              |            | 10        | 10.06            | 0.00388               | PASS    |
|            |           |                      |              |            | 20        | 0.46             | 0.00018               | PASS    |
|            |           |                      |              |            | 30        | -1.72            | -0.00066              | PASS    |
|            |           |                      |              |            | 40        | -1.73            | -0.00066              | PASS    |
|            |           |                      |              |            | 50        | -1.06            | -0.00041              | PASS    |
|            |           | 10                   | LCH          | VN         | -30       | 111.05           | 0.04304               | PASS    |

| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Volt. | Test Temp | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|-----------|------------------|-----------------------|---------|
|           |           |                      |              |            | -20       | 100.15           | 0.03882               | PASS    |
|           |           |                      |              |            | -10       | 77.92            | 0.0302                | PASS    |
|           |           |                      |              |            | 0         | 10.57            | 0.00407               | PASS    |
|           |           |                      |              |            | 10        | -2.5             | -0.00096              | PASS    |
|           |           |                      |              |            | 20        | -20.06           | -0.00773              | PASS    |
|           |           |                      |              |            | 30        | -2.98            | -0.00114              | PASS    |
|           |           |                      |              |            | 40        | -2.6             | -0.001                | PASS    |
|           |           |                      |              |            | 50        | -1.5             | -0.00057              | PASS    |
|           |           |                      | MCH          | VN         | -30       | 4.85             | 0.00189               | PASS    |
|           |           |                      |              |            | -20       | -7.82            | -0.00304              | PASS    |
|           |           |                      |              |            | -10       | -1.57            | -0.00061              | PASS    |
|           |           |                      |              |            | 0         | 3.66             | 0.00141               | PASS    |
|           |           |                      |              |            | 10        | -11.29           | -0.00435              | PASS    |
|           |           |                      |              |            | 20        | 15.98            | 0.00616               | PASS    |
|           |           |                      |              |            | 30        | -2.47            | -0.00094              | PASS    |
|           |           |                      |              |            | 40        | -2.19            | -0.00084              | PASS    |
|           |           |                      |              |            | 50        | -0.79            | -0.0003               | PASS    |
|           |           |                      | HCH          | VN         | -30       | -4.73            | -0.00184              | PASS    |
|           |           |                      |              |            | -20       | -6.98            | -0.00271              | PASS    |
|           |           |                      |              |            | -10       | 1.06             | 0.00041               | PASS    |
|           |           |                      |              |            | 0         | -18.31           | -0.00706              | PASS    |
|           |           |                      |              |            | 10        | -10.94           | -0.00422              | PASS    |
|           |           |                      |              |            | 20        | -9.7             | -0.00374              | PASS    |
|           |           |                      |              |            | 30        | -5.02            | -0.00192              | PASS    |
|           |           |                      |              |            | 40        | -1.8             | -0.00069              | PASS    |
|           |           |                      |              |            | 50        | -3.89            | -0.00149              | PASS    |
|           |           | 15                   | LCH          | VN         | -30       | -9.54            | -0.0037               | PASS    |
|           |           |                      |              |            | -20       | -3.6             | -0.0014               | PASS    |
|           |           |                      |              |            | -10       | 6.62             | 0.00257               | PASS    |
|           |           |                      |              |            | 0         | -10.03           | -0.00387              | PASS    |
|           |           |                      |              |            | 10        | 2.42             | 0.00093               | PASS    |
|           |           |                      |              |            | 20        | -1.82            | -0.0007               | PASS    |
|           |           |                      |              |            | 30        | -4.21            | -0.00161              | PASS    |
|           |           |                      |              |            | 40        | -2.82            | -0.00108              | PASS    |
|           |           |                      |              |            | 50        | -2.66            | -0.00102              | PASS    |
|           |           |                      | MCH          | VN         | -30       | 14.19            | 0.0055                | PASS    |
|           |           |                      |              |            | -20       | -3.89            | -0.00151              | PASS    |
|           |           |                      |              |            | -10       | 36.13            | 0.014                 | PASS    |
|           |           |                      |              |            | 0         | -8.67            | -0.00334              | PASS    |

| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Volt. | Test Temp | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|-----------|------------------|-----------------------|---------|
|           |           |                      |              |            | 10        | -6.15            | -0.00237              | PASS    |
|           |           |                      |              |            | 20        | -11.04           | -0.00425              | PASS    |
|           |           |                      |              |            | 30        | 0.69             | 0.00026               | PASS    |
|           |           |                      |              |            | 40        | -3.18            | -0.00122              | PASS    |
|           |           |                      |              |            | 50        | 0.47             | 0.00018               | PASS    |
|           |           |                      | HCH          | VN         | -30       | -17.08           | -0.00664              | PASS    |
|           |           |                      |              |            | -20       | -11.77           | -0.00458              | PASS    |
|           |           |                      |              |            | -10       | -3.53            | -0.00137              | PASS    |
|           |           |                      |              |            | 0         | -5.55            | -0.00216              | PASS    |
|           |           |                      |              |            | 10        | -10.21           | -0.00397              | PASS    |
|           |           |                      |              |            | 20        | -4.42            | -0.00172              | PASS    |
|           |           |                      |              |            | 30        | -2.92            | -0.00114              | PASS    |
|           |           |                      |              |            | 40        | -7.68            | -0.00299              | PASS    |
|           |           |                      |              |            | 50        | -7.6             | -0.00295              | PASS    |
|           |           | 20                   | LCH          | VN         | -30       | -1.52            | -0.00059              | PASS    |
|           |           |                      |              |            | -20       | -2.46            | -0.00095              | PASS    |
|           |           |                      |              |            | -10       | -1.99            | -0.00077              | PASS    |
|           |           |                      |              |            | 0         | -4.56            | -0.00176              | PASS    |
|           |           |                      |              |            | 10        | -4.28            | -0.00165              | PASS    |
|           |           |                      |              |            | 20        | 32.37            | 0.01247               | PASS    |
|           |           |                      |              |            | 30        | -3.68            | -0.00142              | PASS    |
|           |           |                      |              |            | 40        | -12.53           | -0.00483              | PASS    |
|           |           |                      |              |            | 50        | -30.46           | -0.01174              | PASS    |
|           |           |                      | MCH          | VN         | -30       | -0.79            | -0.0003               | PASS    |
|           |           |                      |              |            | -20       | -2.46            | -0.00094              | PASS    |
|           |           |                      |              |            | -10       | -2.05            | -0.00078              | PASS    |
|           |           |                      |              |            | 0         | -2.05            | -0.00078              | PASS    |
|           |           |                      |              |            | 10        | -2.27            | -0.00087              | PASS    |
|           |           |                      |              |            | 20        | -2.68            | -0.00102              | PASS    |
|           |           |                      |              |            | 30        | -2.99            | -0.00114              | PASS    |
|           |           |                      |              |            | 40        | -2.57            | -0.00098              | PASS    |
|           |           |                      |              |            | 50        | -2.76            | -0.00105              | PASS    |
|           |           |                      | HCH          | VN         | -30       | -2.33            | -0.0009               | PASS    |
|           |           |                      |              |            | -20       | -5.45            | -0.00212              | PASS    |
|           |           |                      |              |            | -10       | -9.8             | -0.00381              | PASS    |
|           |           |                      |              |            | 0         | -14.79           | -0.00574              | PASS    |
|           |           |                      |              |            | 10        | -1.13            | -0.00044              | PASS    |
|           |           |                      |              |            | 20        | -10.51           | -0.00408              | PASS    |
|           |           |                      |              |            | 30        | -4.98            | -0.00193              | PASS    |

| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Volt. | Test Temp | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|-----------|------------------|-----------------------|---------|
|           | LTE/TM2   | 5                    |              |            | 40        | -2.93            | -0.00114              | PASS    |
|           |           |                      |              |            | 50        | -8.15            | -0.00317              | PASS    |
|           |           |                      | LCH          | VN         | -30       | 5.95             | 0.00229               | PASS    |
|           |           |                      |              |            | -20       | 1.16             | 0.00045               | PASS    |
|           |           |                      |              |            | -10       | 1.72             | 0.00066               | PASS    |
|           |           |                      |              |            | 0         | -6.77            | -0.00261              | PASS    |
|           |           |                      |              |            | 10        | -1.04            | -0.0004               | PASS    |
|           |           |                      |              |            | 20        | 5.52             | 0.00213               | PASS    |
|           |           |                      |              |            | 30        | -12.77           | -0.00492              | PASS    |
|           |           |                      |              |            | 40        | -4.25            | -0.00164              | PASS    |
|           |           |                      |              |            | 50        | 3.95             | 0.00152               | PASS    |
|           |           |                      | MCH          | VN         | -30       | -1.23            | -0.00047              | PASS    |
|           |           |                      |              |            | -20       | -1.83            | -0.0007               | PASS    |
|           |           |                      |              |            | -10       | -2.07            | -0.00079              | PASS    |
|           |           |                      |              |            | 0         | -2.23            | -0.00085              | PASS    |
|           |           |                      |              |            | 10        | -1.99            | -0.00076              | PASS    |
|           |           |                      |              |            | 20        | -1.06            | -0.00041              | PASS    |
|           |           |                      |              |            | 30        | -2.43            | -0.00093              | PASS    |
|           |           |                      |              |            | 40        | -0.86            | -0.00033              | PASS    |
|           |           |                      |              |            | 50        | -1.66            | -0.00063              | PASS    |
|           |           |                      | HCH          | VN         | -30       | -5.06            | -0.00196              | PASS    |
|           |           |                      |              |            | -20       | -0.99            | -0.00038              | PASS    |
|           |           |                      |              |            | -10       | -11.27           | -0.00437              | PASS    |
|           |           |                      |              |            | 0         | -2.56            | -0.00099              | PASS    |
|           |           |                      |              |            | 10        | -4.22            | -0.00164              | PASS    |
|           |           |                      |              |            | 20        | -3.79            | -0.00147              | PASS    |
|           |           |                      |              |            | 30        | -0.47            | -0.00018              | PASS    |
|           |           |                      |              |            | 40        | -11.32           | -0.00439              | PASS    |
|           |           |                      |              |            | 50        | -2.75            | -0.00107              | PASS    |
|           |           | 10                   | LCH          | VN         | -30       | -1.57            | -0.00061              | PASS    |
|           |           |                      |              |            | -20       | -5.41            | -0.00208              | PASS    |
|           |           |                      |              |            | -10       | 6.54             | 0.00252               | PASS    |
|           |           |                      |              |            | 0         | 4.96             | 0.00191               | PASS    |
|           |           |                      |              |            | 10        | 5.61             | 0.00216               | PASS    |
|           |           |                      |              |            | 20        | -3.13            | -0.00121              | PASS    |
|           |           |                      |              |            | 30        | 3.12             | 0.0012                | PASS    |
|           |           |                      |              |            | 40        | 0.99             | 0.00038               | PASS    |
|           |           |                      |              |            | 50        | -1.44            | -0.00055              | PASS    |
|           |           |                      | MCH          | VN         | -30       | -2.15            | -0.00082              | PASS    |

| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Volt. | Test Temp | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|-----------|------------------|-----------------------|---------|
|           |           |                      |              |            | -20       | -2.02            | -0.00077              | PASS    |
|           |           |                      |              |            | -10       | -2.26            | -0.00087              | PASS    |
|           |           |                      |              |            | 0         | -3.66            | -0.0014               | PASS    |
|           |           |                      |              |            | 10        | -2.55            | -0.00098              | PASS    |
|           |           |                      |              |            | 20        | -2.02            | -0.00077              | PASS    |
|           |           |                      |              |            | 30        | -3.71            | -0.00142              | PASS    |
|           |           |                      |              |            | 40        | -3.33            | -0.00127              | PASS    |
|           |           |                      |              |            | 50        | -1.82            | -0.0007               | PASS    |
|           |           |                      | HCH          | VN         | -30       | -5.84            | -0.00226              | PASS    |
|           |           |                      |              |            | -20       | -25.16           | -0.00975              | PASS    |
|           |           |                      |              |            | -10       | -151.73          | -0.05881              | PASS    |
|           |           |                      |              |            | 0         | -116.97          | -0.04534              | PASS    |
|           |           |                      |              |            | 10        | -94.56           | -0.03665              | PASS    |
|           |           |                      |              |            | 20        | -120.61          | -0.04675              | PASS    |
|           |           |                      |              |            | 30        | -41.79           | -0.0162               | PASS    |
|           |           |                      |              |            | 40        | -74.47           | -0.02886              | PASS    |
|           |           |                      |              |            | 50        | -81.05           | -0.03141              | PASS    |
|           |           | 15                   | LCH          | VN         | -30       | 2.59             | 0.001                 | PASS    |
|           |           |                      |              |            | -20       | -24.45           | -0.00942              | PASS    |
|           |           |                      |              |            | -10       | -17.94           | -0.00691              | PASS    |
|           |           |                      |              |            | 0         | -5.58            | -0.00215              | PASS    |
|           |           |                      |              |            | 10        | -12.52           | -0.00482              | PASS    |
|           |           |                      |              |            | 20        | -6.49            | -0.0025               | PASS    |
|           |           |                      |              |            | 30        | 1.29             | 0.0005                | PASS    |
|           |           |                      |              |            | 40        | -2.73            | -0.00105              | PASS    |
|           |           |                      |              |            | 50        | -13.33           | -0.00514              | PASS    |
|           |           |                      | MCH          | VN         | -30       | -2.46            | -0.00094              | PASS    |
|           |           |                      |              |            | -20       | -2.09            | -0.0008               | PASS    |
|           |           |                      |              |            | -10       | -0.99            | -0.00038              | PASS    |
|           |           |                      |              |            | 0         | -2.22            | -0.00085              | PASS    |
|           |           |                      |              |            | 10        | -1.49            | -0.00057              | PASS    |
|           |           |                      |              |            | 20        | -2.69            | -0.00103              | PASS    |
|           |           |                      |              |            | 30        | -1.82            | -0.0007               | PASS    |
|           |           |                      |              |            | 40        | -1.53            | -0.00059              | PASS    |
|           |           |                      |              |            | 50        | -3               | -0.00115              | PASS    |
|           |           |                      | HCH          | VN         | -30       | -8.37            | -0.00325              | PASS    |
|           |           |                      |              |            | -20       | -5.31            | -0.00206              | PASS    |
|           |           |                      |              |            | -10       | -12.83           | -0.00499              | PASS    |
|           |           |                      |              |            | 0         | 4.31             | 0.00168               | PASS    |

| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Volt. | Test Temp | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|-----------|------------------|-----------------------|---------|
|           |           |                      |              |            | 10        | -10.71           | -0.00416              | PASS    |
|           |           |                      |              |            | 20        | 0.66             | 0.00026               | PASS    |
|           |           |                      |              |            | 30        | -9.06            | -0.00352              | PASS    |
|           |           |                      |              |            | 40        | 1.79             | 0.0007                | PASS    |
|           |           |                      |              |            | 50        | -4.61            | -0.00179              | PASS    |
|           |           | 20                   | LCH          | VN         | -30       | -4.21            | -0.00162              | PASS    |
|           |           |                      |              |            | -20       | 1.14             | 0.00044               | PASS    |
|           |           |                      |              |            | -10       | -5.75            | -0.00222              | PASS    |
|           |           |                      |              |            | 0         | -1.66            | -0.00064              | PASS    |
|           |           |                      |              |            | 10        | -14.83           | -0.00571              | PASS    |
|           |           |                      |              |            | 20        | -13.18           | -0.00508              | PASS    |
|           |           |                      |              |            | 30        | 4.16             | 0.0016                | PASS    |
|           |           |                      |              |            | 40        | -16.32           | -0.00629              | PASS    |
|           |           |                      |              |            | 50        | 9.48             | 0.00365               | PASS    |
|           |           |                      | MCH          | VN         | -30       | -3.25            | -0.00124              | PASS    |
|           |           |                      |              |            | -20       | -1.86            | -0.00071              | PASS    |
|           |           |                      |              |            | -10       | -3.48            | -0.00133              | PASS    |
|           |           |                      |              |            | 0         | -2.57            | -0.00098              | PASS    |
|           |           |                      |              |            | 10        | -0.93            | -0.00036              | PASS    |
|           |           |                      |              |            | 20        | -2.39            | -0.00091              | PASS    |
|           |           |                      |              |            | 30        | -2.78            | -0.00106              | PASS    |
|           |           |                      |              |            | 40        | -1.9             | -0.00073              | PASS    |
|           |           |                      |              |            | 50        | -3.48            | -0.00133              | PASS    |
|           |           |                      | HCH          | VN         | -30       | 7.81             | 0.00303               | PASS    |
|           |           |                      |              |            | -20       | -1.99            | -0.00077              | PASS    |
|           |           |                      |              |            | -10       | 3.83             | 0.00149               | PASS    |
|           |           |                      |              |            | 0         | 2.12             | 0.00082               | PASS    |
|           |           |                      |              |            | 10        | 0.04             | 0.00002               | PASS    |
|           |           |                      |              |            | 20        | 7.04             | 0.00273               | PASS    |
|           |           |                      |              |            | 30        | -5.82            | -0.00226              | PASS    |
|           |           |                      |              |            | 40        | 4.05             | 0.00157               | PASS    |
|           |           |                      |              |            | 50        | 7.91             | 0.00307               | PASS    |

END