



## Appendix for test report

## 1Appendix\_A: Effective (Isotropic) Radiated Power Output Data

### Part I - Test Results

| Test Band | Test Mode | Test Channel | Measured[dBm] | ERP/EIRP [dBm] | Limit [dBm] | Verdict |
|-----------|-----------|--------------|---------------|----------------|-------------|---------|
| GSM850    | GSM/TM1   | LCH          | 32.36         | 26.81          | 38.5        | PASS    |
|           |           | MCH          | 32.31         | 26.76          | 38.5        | PASS    |
|           |           | HCH          | 32.25         | 26.7           | 38.5        | PASS    |
|           | GSM/TM2   | LCH          | 25.53         | 19.98          | 38.5        | PASS    |
|           |           | MCH          | 25.49         | 19.94          | 38.5        | PASS    |
|           |           | HCH          | 25.43         | 19.88          | 38.5        | PASS    |
| GSM1900   | GSM/TM1   | LCH          | 29.78         | 31.88          | 33          | PASS    |
|           |           | MCH          | 29.72         | 31.82          | 33          | PASS    |
|           |           | HCH          | 29.56         | 31.66          | 33          | PASS    |
|           | GSM/TM2   | LCH          | 24.99         | 27.09          | 33          | PASS    |
|           |           | MCH          | 24.97         | 27.07          | 33          | PASS    |
|           |           | HCH          | 24.95         | 27.05          | 33          | PASS    |

Note1:

a, For getting the ERP (Efficient Radiated Power) or EIRP (Efficient Isotropic Radiated Power) in substitution method, the following formula should be taken to calculate it,

$$\text{ERP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBd]}$$

$$\text{EIRP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBi]}$$

b, SGP=Signal Generator Level

Note2: RBW > emission bandwidth, VBW > 3 x RBW.

Detector: RMS

## 2Appendix\_B: Peak-to-Average Ratio

### Part I - Test Results

| Test Band | Test Mode | Test Channel | Measured[dB] | Limit [dB] | Verdict |
|-----------|-----------|--------------|--------------|------------|---------|
| GSM850    | GSM/TM1   | LCH          | 0.24         | 13         | PASS    |
|           |           | MCH          | 0.19         | 13         | PASS    |
|           |           | HCH          | 0.19         | 13         | PASS    |
|           | GSM/TM2   | LCH          | 2.64         | 13         | PASS    |
|           |           | MCH          | 2.62         | 13         | PASS    |
|           |           | HCH          | 2.81         | 13         | PASS    |
| GSM1900   | GSM/TM1   | LCH          | 0.16         | 13         | PASS    |
|           |           | MCH          | 0.15         | 13         | PASS    |
|           |           | HCH          | 0.16         | 13         | PASS    |
|           | GSM/TM2   | LCH          | 2.68         | 13         | PASS    |
|           |           | MCH          | 2.81         | 13         | PASS    |
|           |           | HCH          | 2.8          | 13         | PASS    |

## 3Appendix\_C: Modulation Characteristics

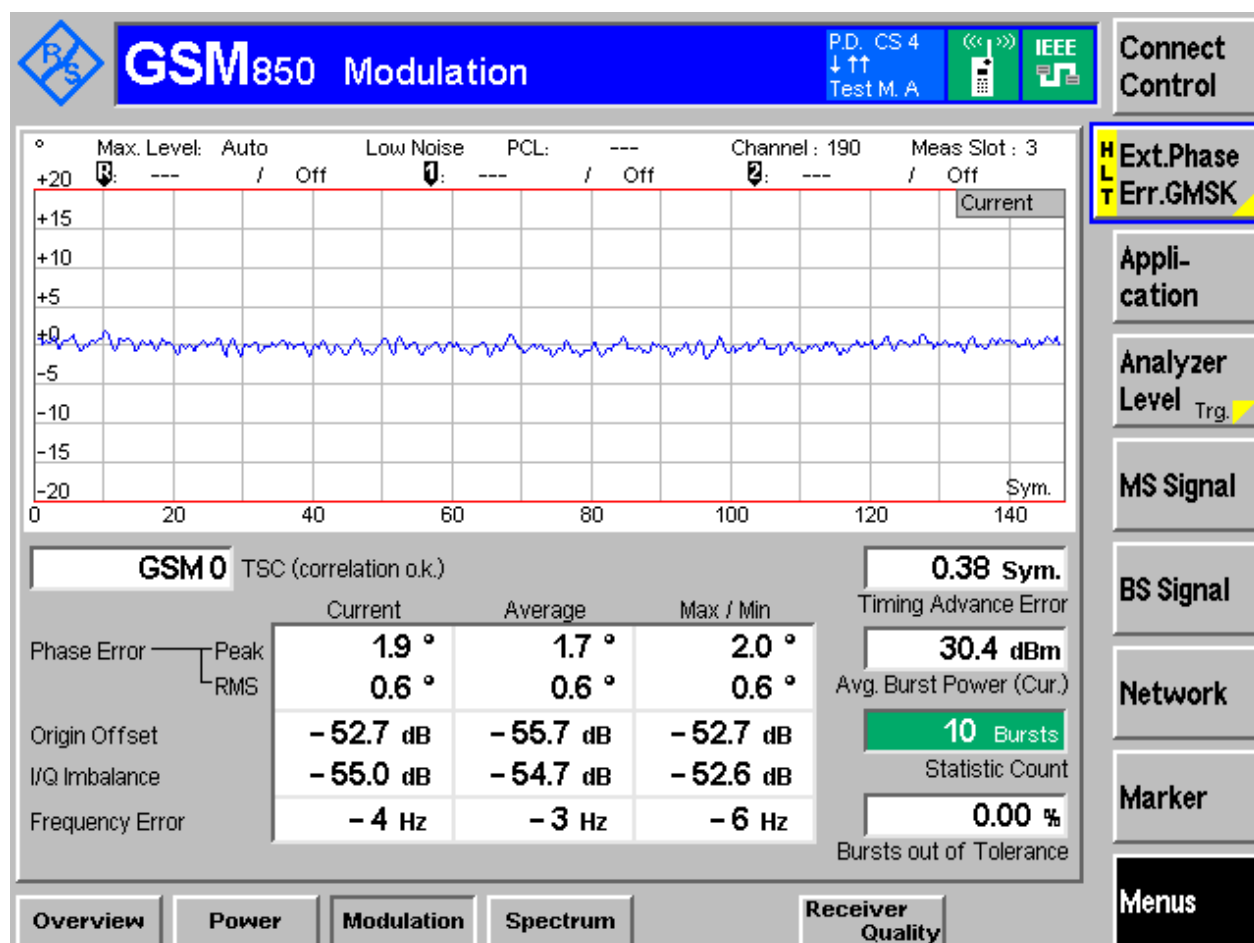
### Part I - Test Plots

#### 3.1 For GSM

##### 3.1.1 Test Band = GSM850

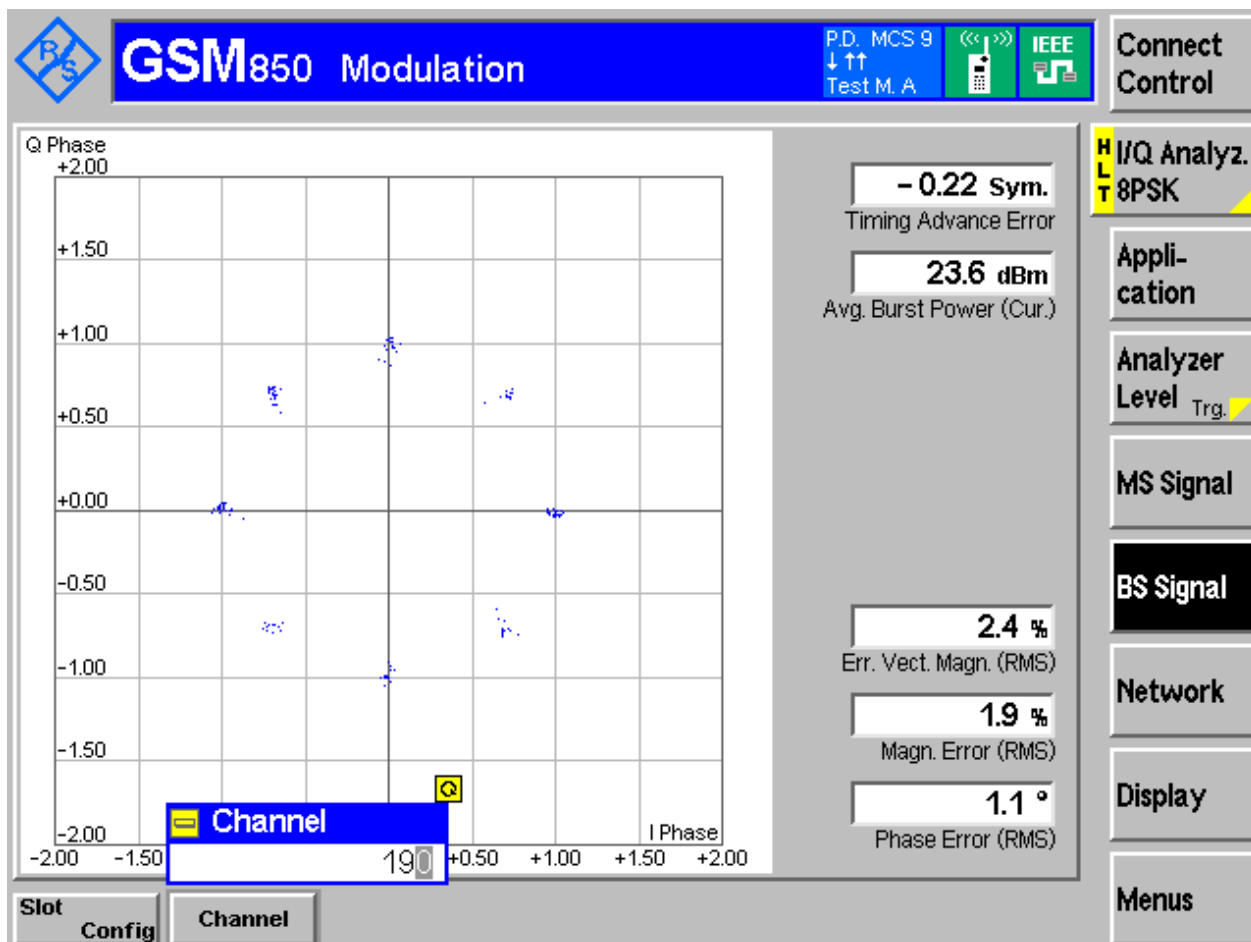
##### 3.1.1.1 Test Mode = GSM/TM1

##### 3.1.1.1.1 Test Channel = MCH



### 3.1.1.2 Test Mode = GSM/TM2

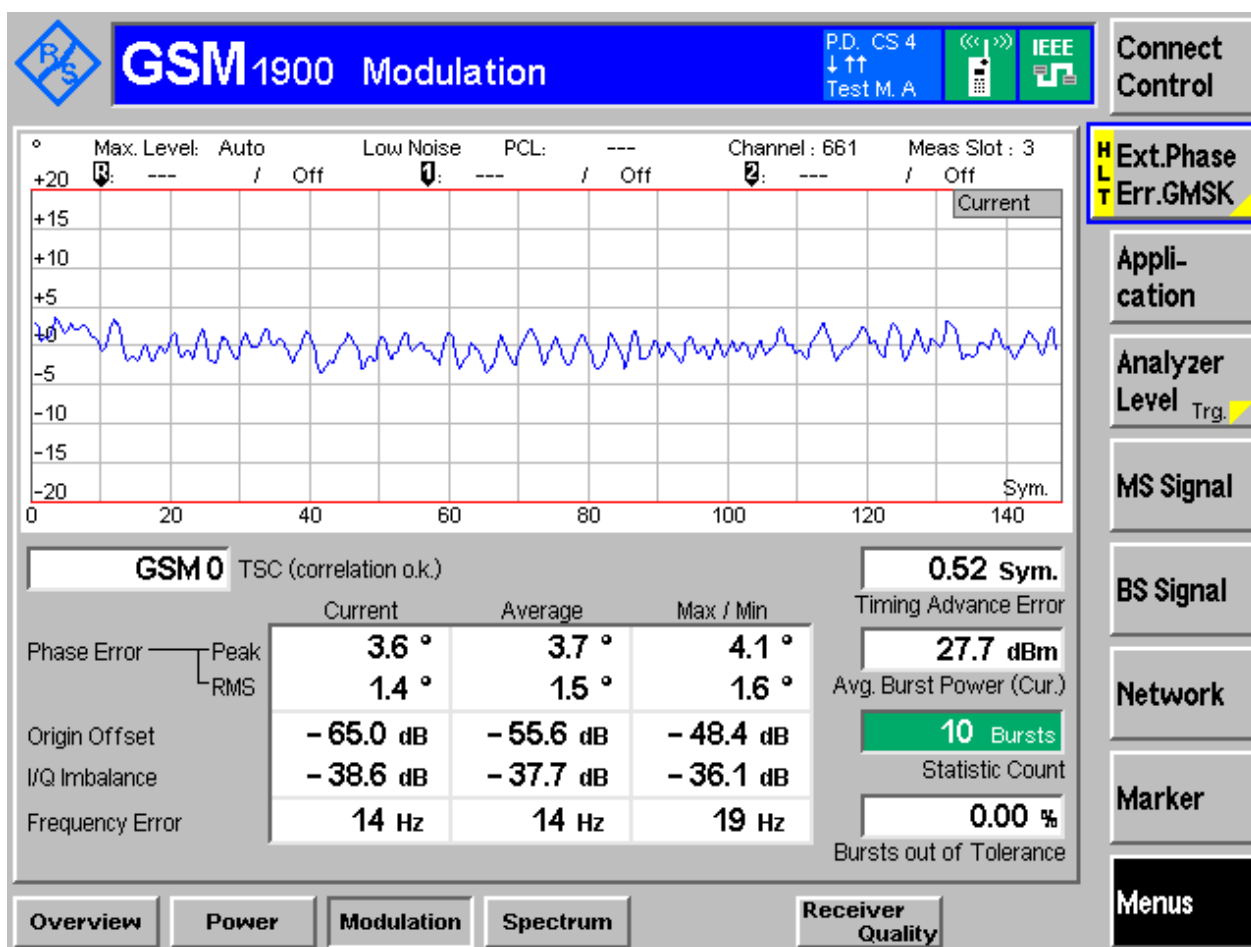
#### 3.1.1.2.1 Test Channel = MCH



### 3.1.2 Test Band = GSM1900

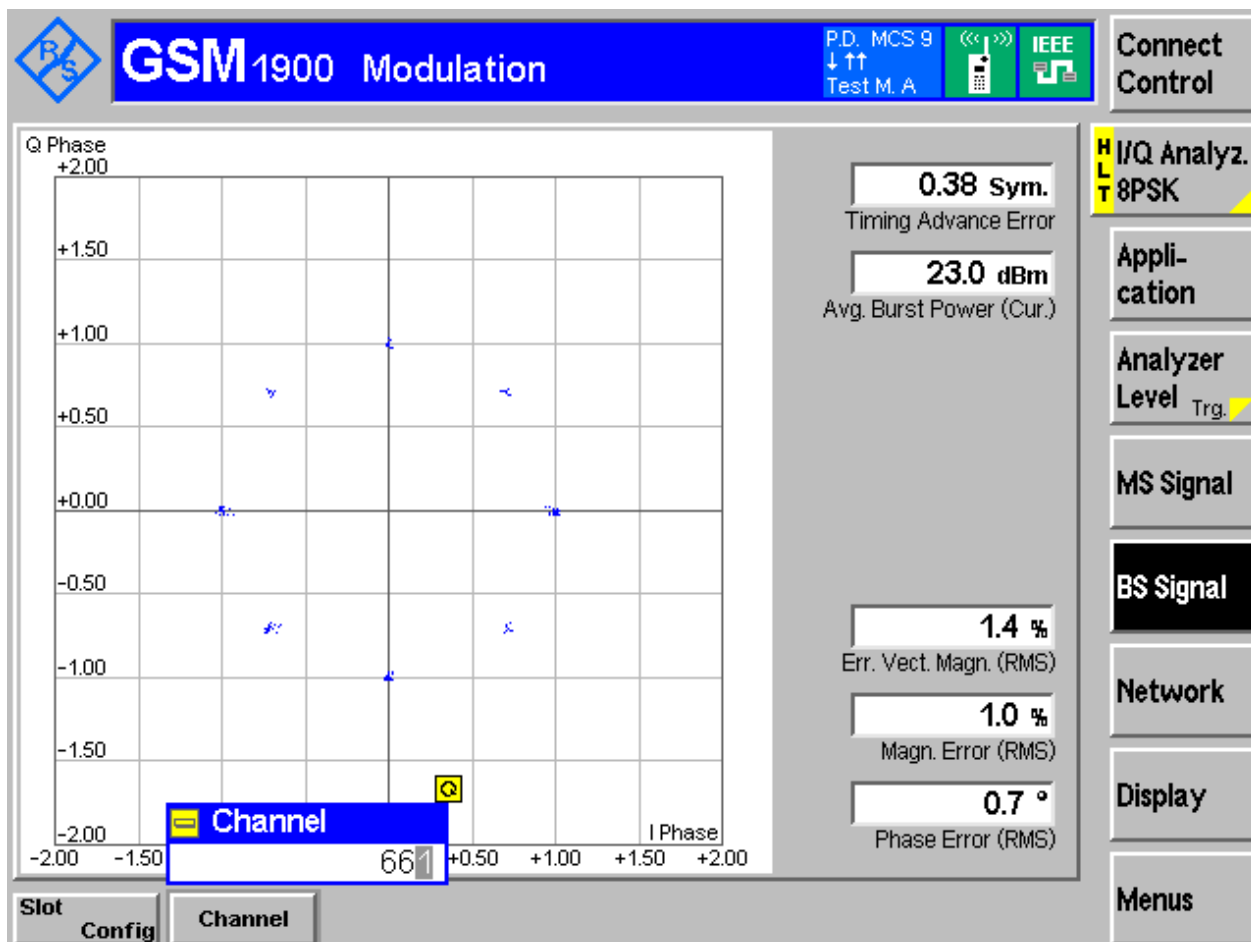
#### 3.1.2.1 Test Mode = GSM/TM1

##### 3.1.2.1.1 Test Channel = MCH



### 3.1.2.2 Test Mode = GSM/TM2

#### 3.1.2.2.1 Test Channel = MCH



## 4Appendix\_D: Bandwidth

### Part I - Test Results

| Test Band | Test Mode | Test Channel | Occupied Bandwidth [kHz] | Emission Bandwidth [kHz] | Verdict |
|-----------|-----------|--------------|--------------------------|--------------------------|---------|
| GSM850    | GSM/TM1   | LCH          | 239.17                   | 314.60                   | Pass    |
|           |           | MCH          | 245.14                   | 312.22                   | Pass    |
|           |           | HCH          | 243.96                   | 316.93                   | Pass    |
|           | GSM/TM2   | LCH          | 249.39                   | 319.60                   | Pass    |
|           |           | MCH          | 252.75                   | 320.61                   | Pass    |
|           |           | HCH          | 251.08                   | 317.81                   | Pass    |
| GSM1900   | GSM/TM1   | LCH          | 241.57                   | 319.51                   | Pass    |
|           |           | MCH          | 244.02                   | 314.24                   | Pass    |
|           |           | HCH          | 242.49                   | 315.06                   | Pass    |
|           | GSM/TM2   | LCH          | 245.82                   | 315.57                   | Pass    |
|           |           | MCH          | 246.81                   | 309.47                   | Pass    |
|           |           | HCH          | 246.43                   | 317.82                   | Pass    |



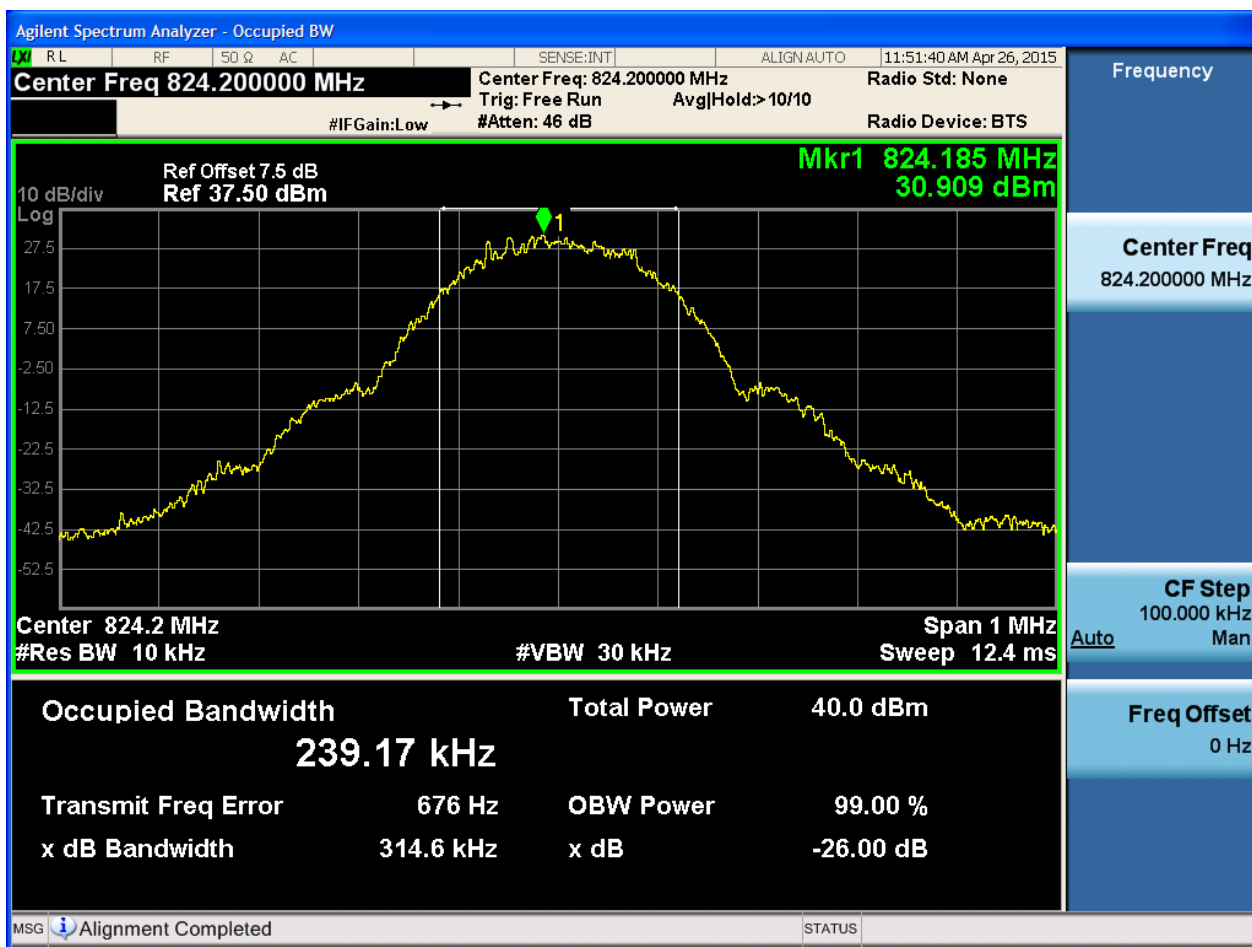
## Part II - Test Plots

### 4.1 For GSM

#### 4.1.1 Test Band = GSM850

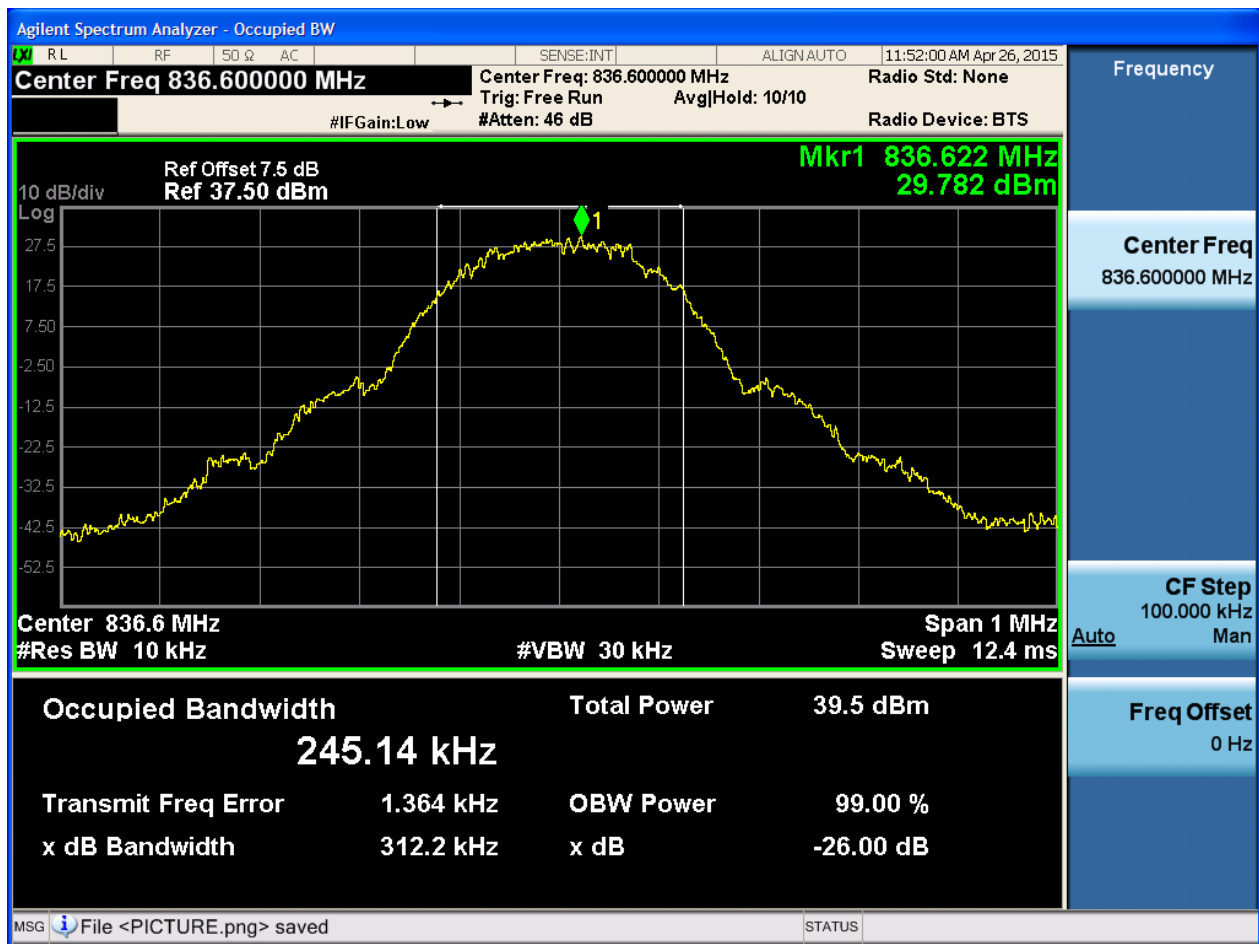
##### 4.1.1.1 Test Mode = GSM/TM1

##### 4.1.1.1.1 Test Channel = LCH



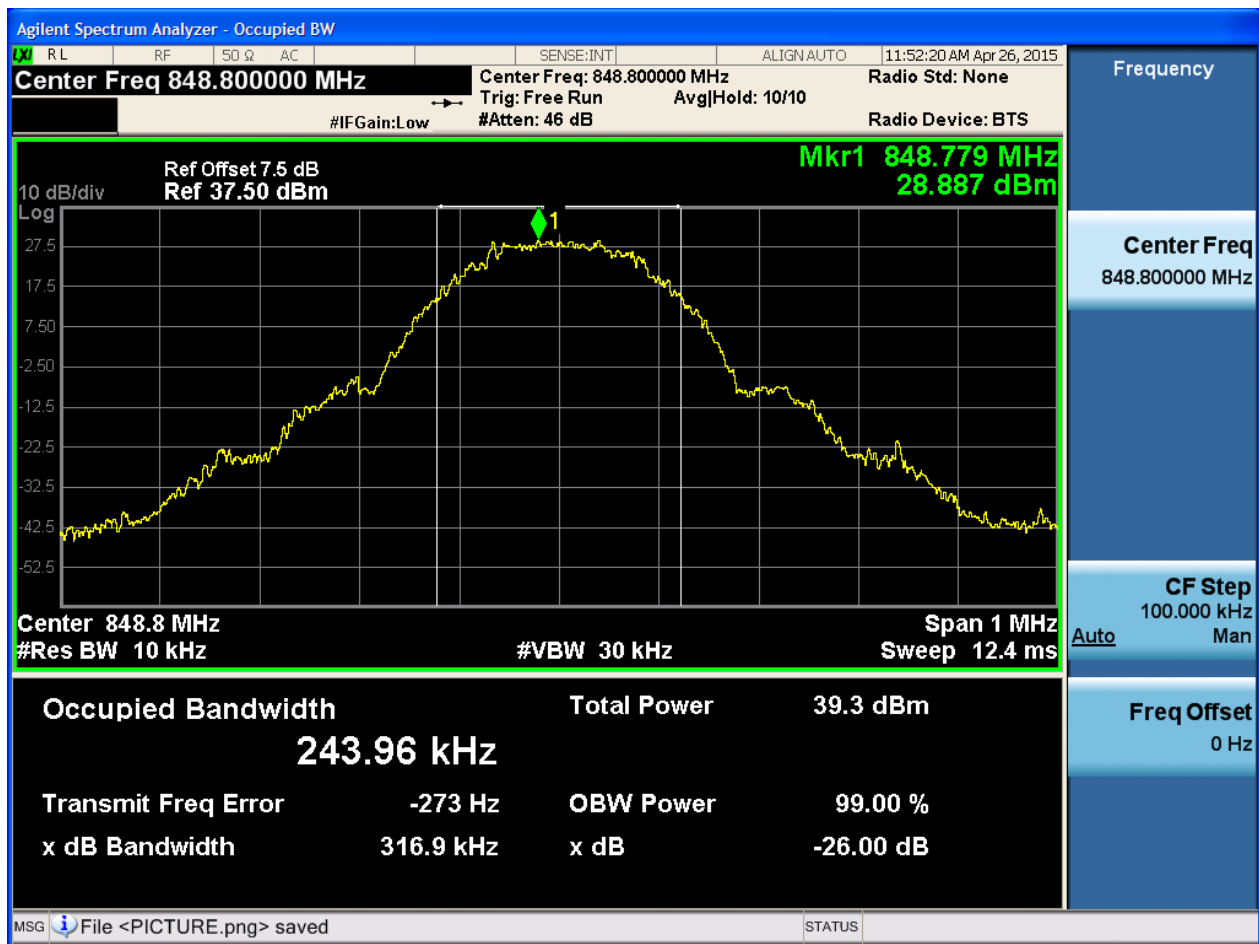


## 4.1.1.1.2 Test Channel = MCH





## 4.1.1.1.3 Test Channel = HCH

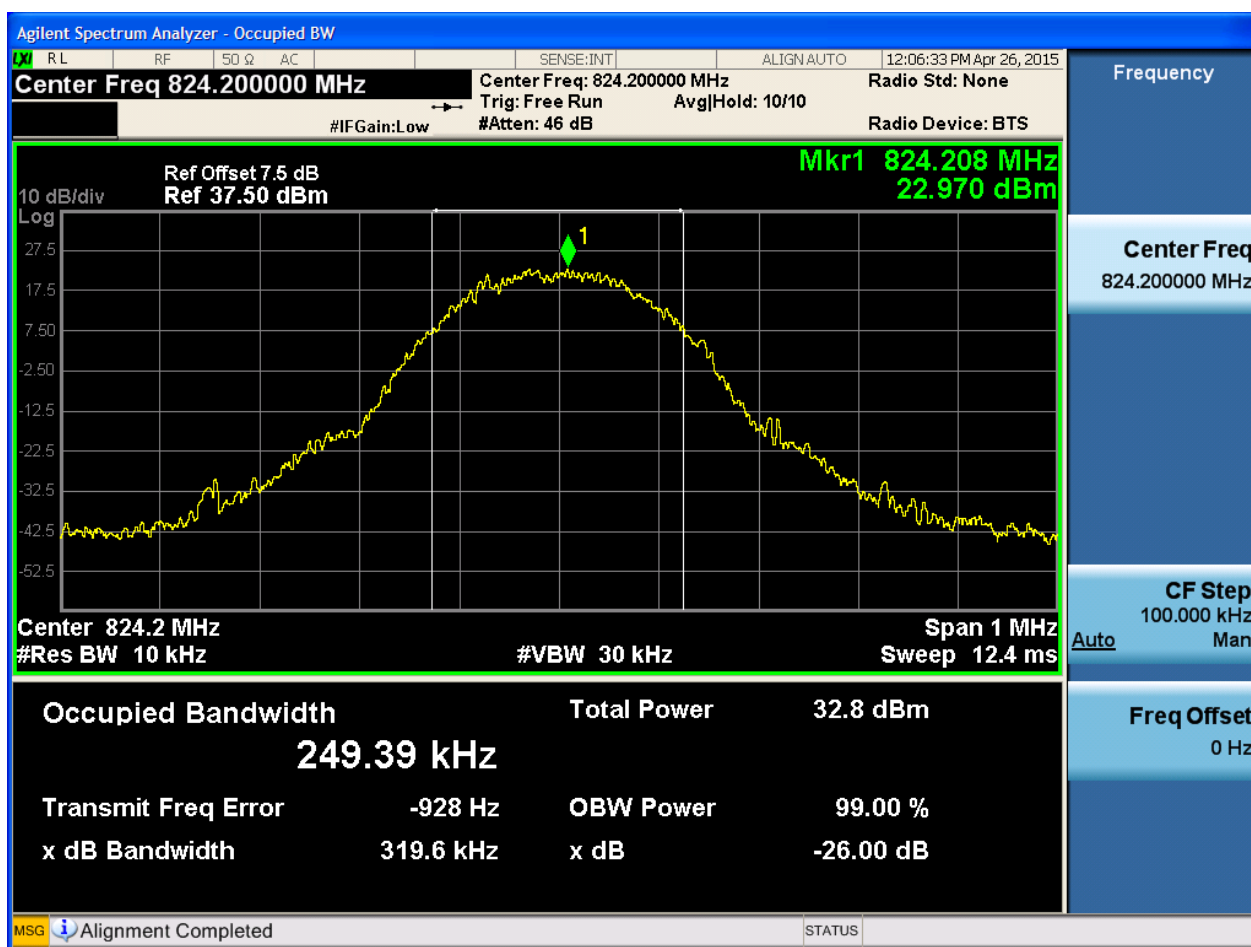


#### 4.1.1.2 Test Mode = GSM/TM2

##### 4.1.1.2.1 Test Channel =

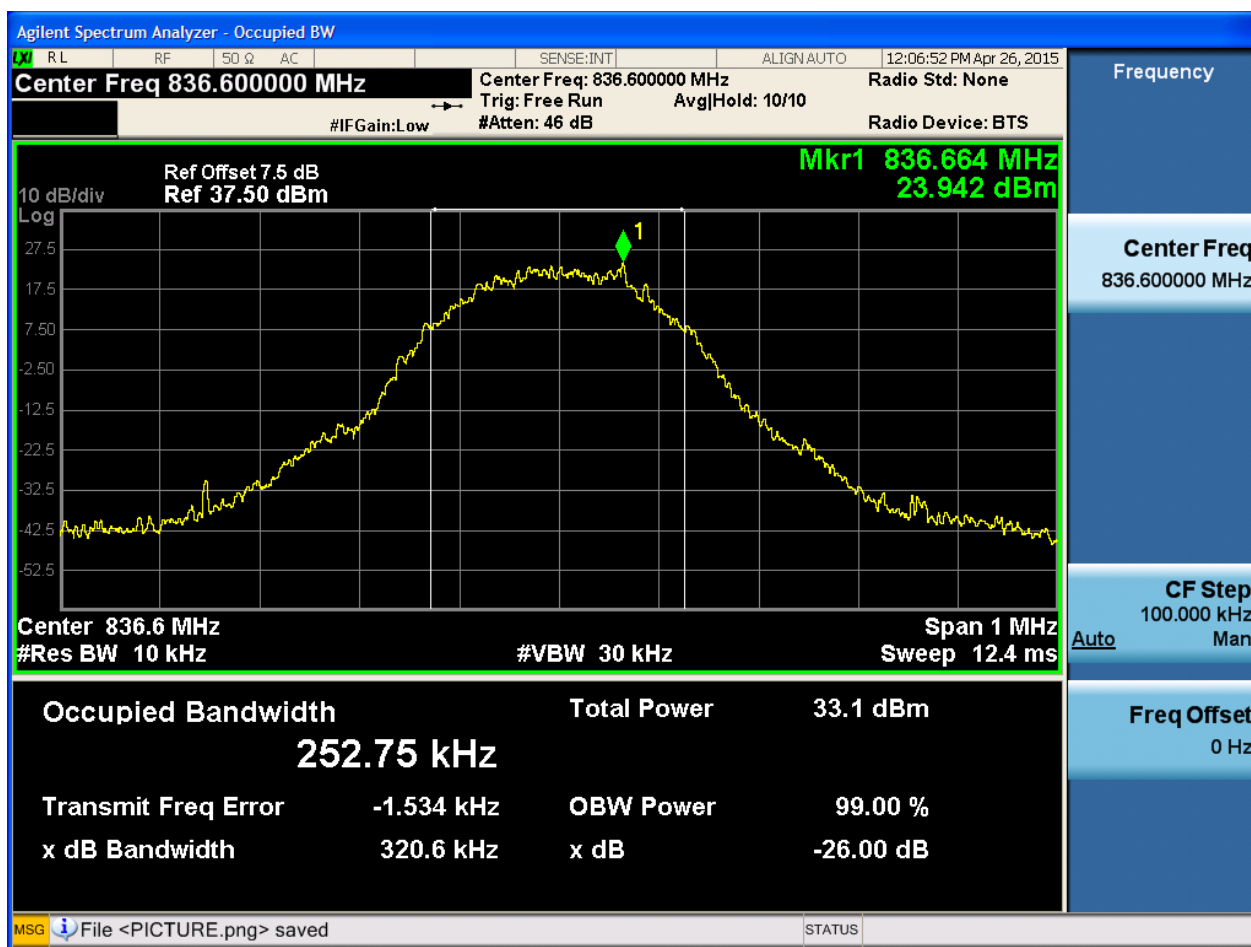
#### 4.1.1.3 Test Mode = GSM/TM2

##### 4.1.1.3.1 Test Channel = LCH



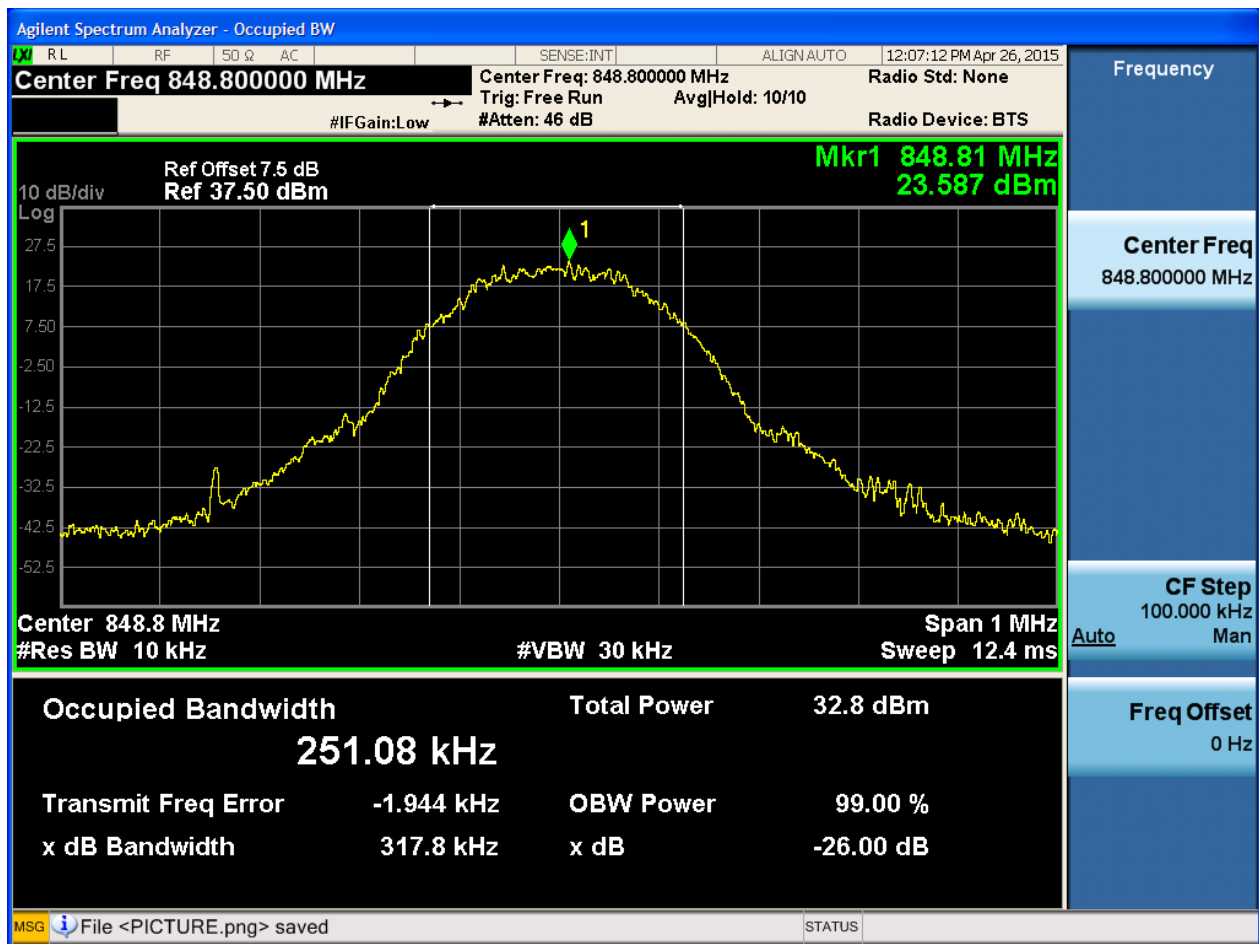


## 4.1.1.3.2 Test Channel = MCH





## 4.1.1.3.3 Test Channel = HCH

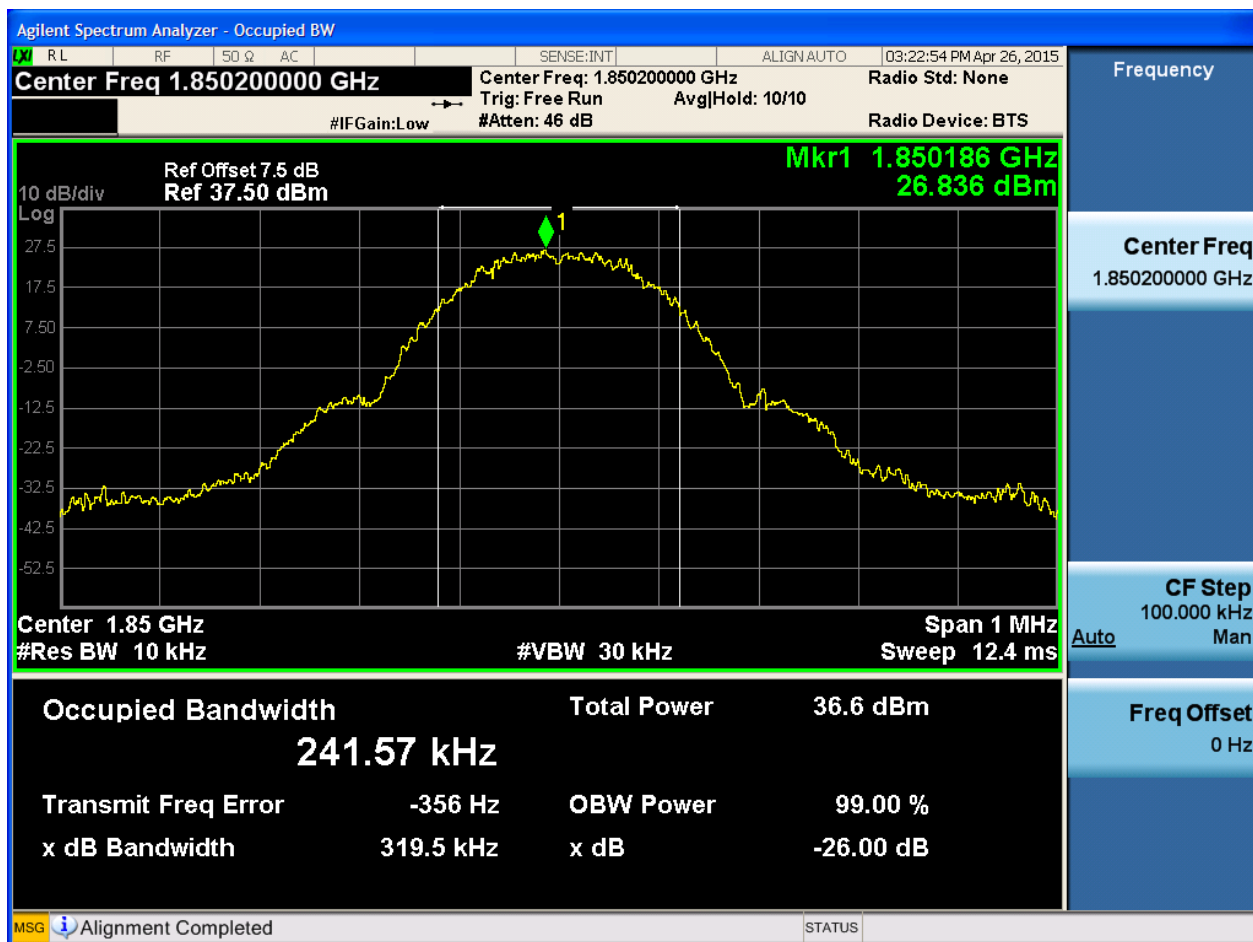




## 4.1.2 Test Band = GSM1900

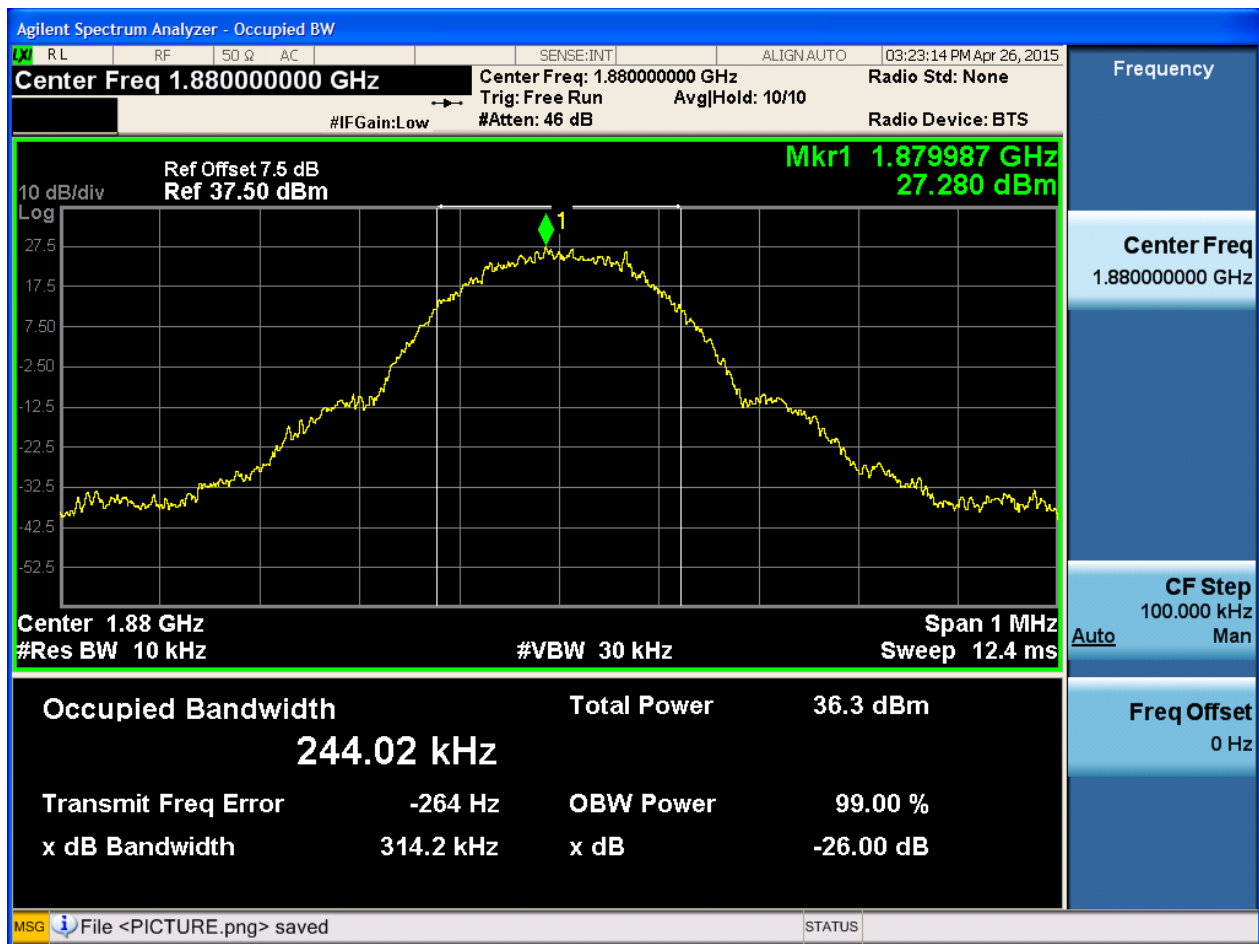
## 4.1.2.1 Test Mode = GSM/TM1

## 4.1.2.1.1 Test Channel = LCH



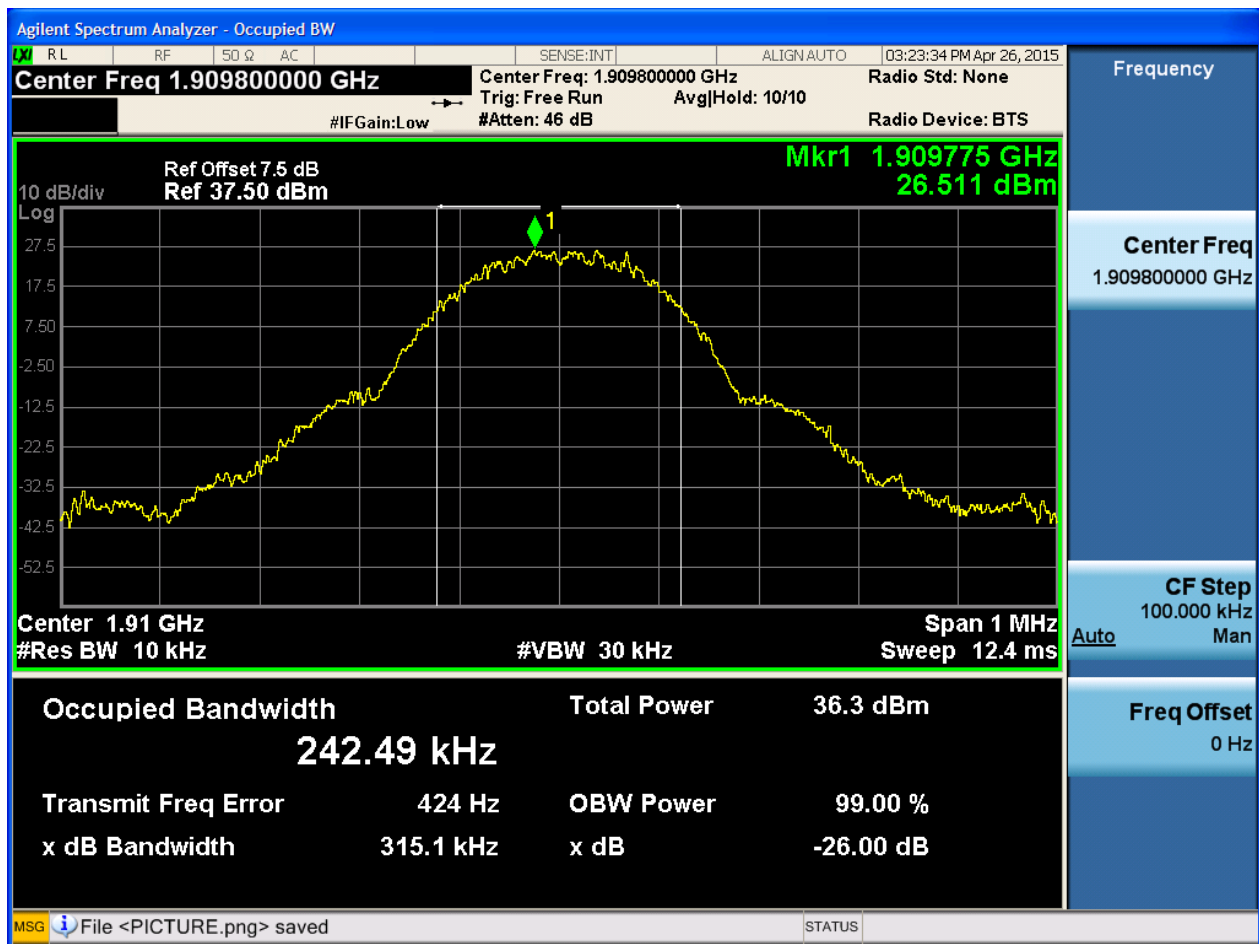


## 4.1.2.1.2 Test Channel = MCH





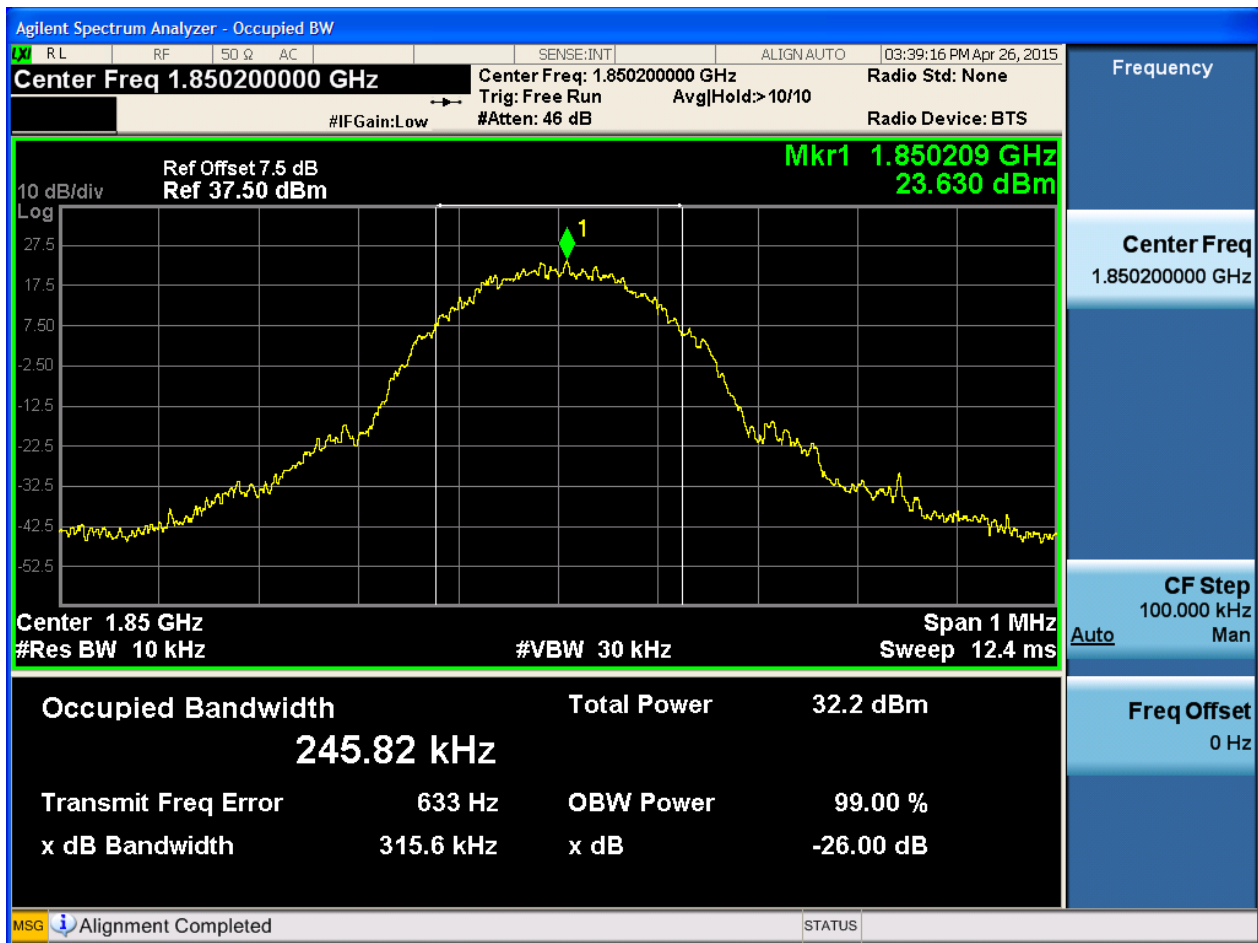
## 4.1.2.1.3 Test Channel = HCH





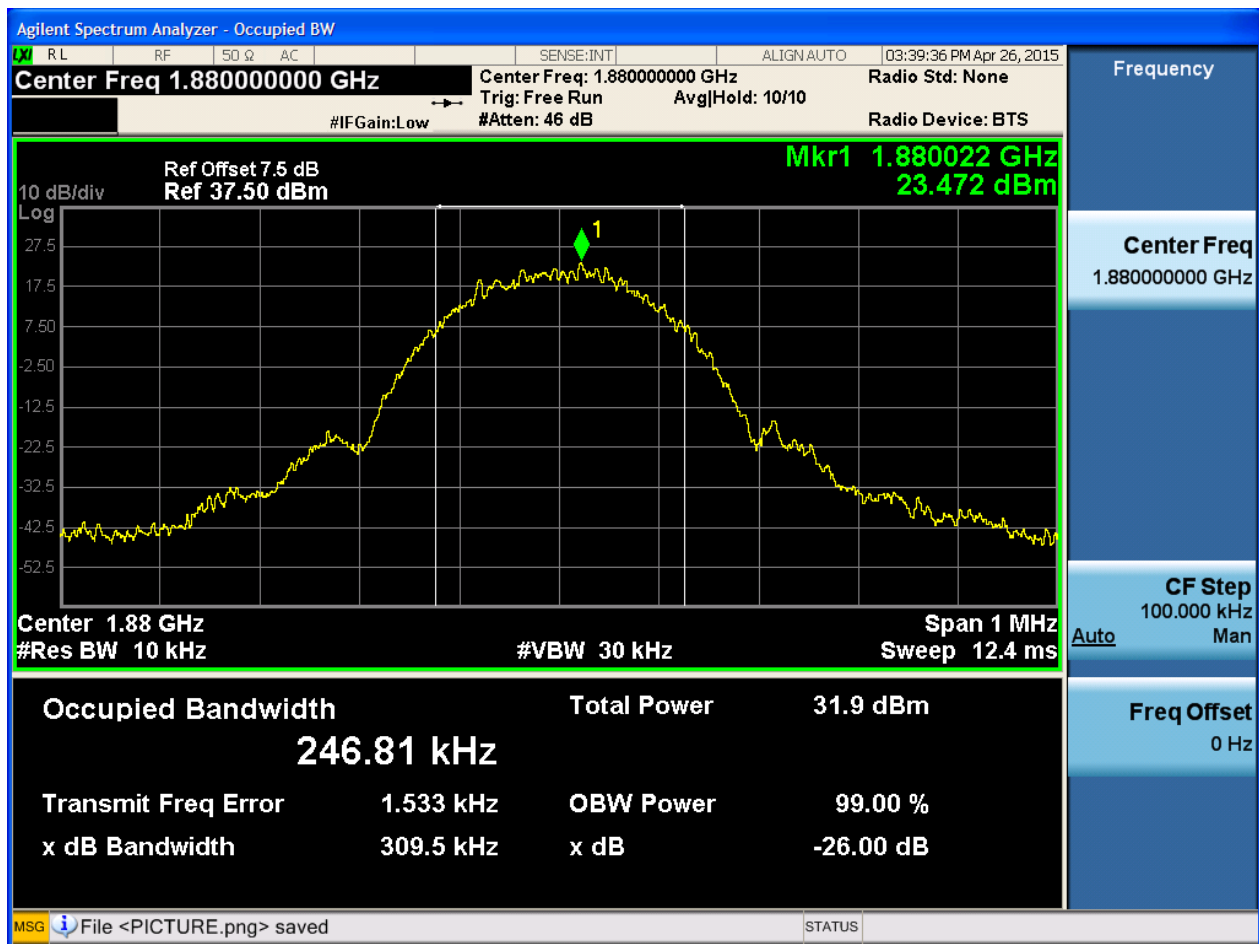
## 4.1.2.2 Test Mode = GSM/TM2

## 4.1.2.2.1 Test Channel = LCH



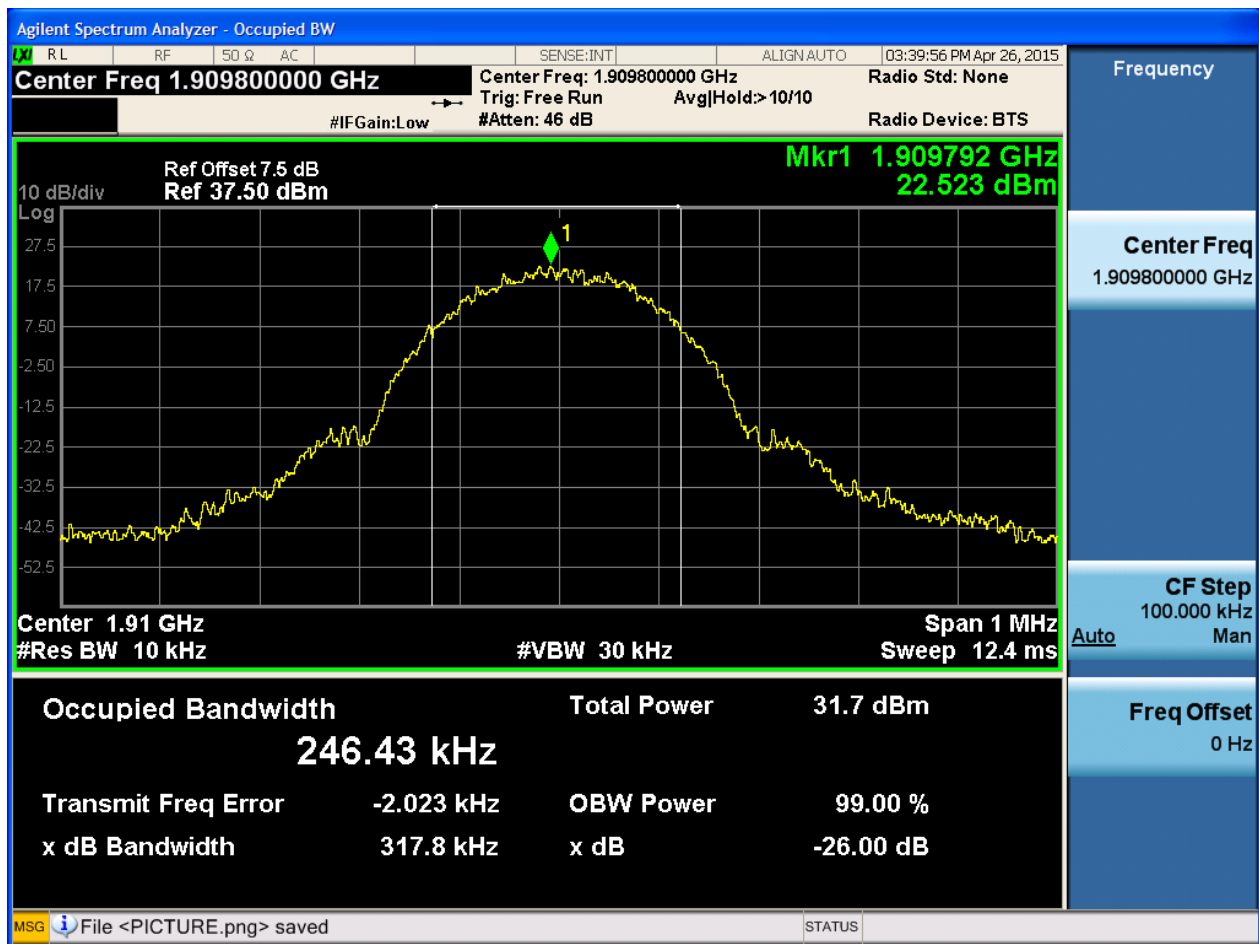


## 4.1.2.2.2 Test Channel = MCH





## 4.1.2.2.3 Test Channel = HCH





## 5Appendix\_E: Band Edges Compliance

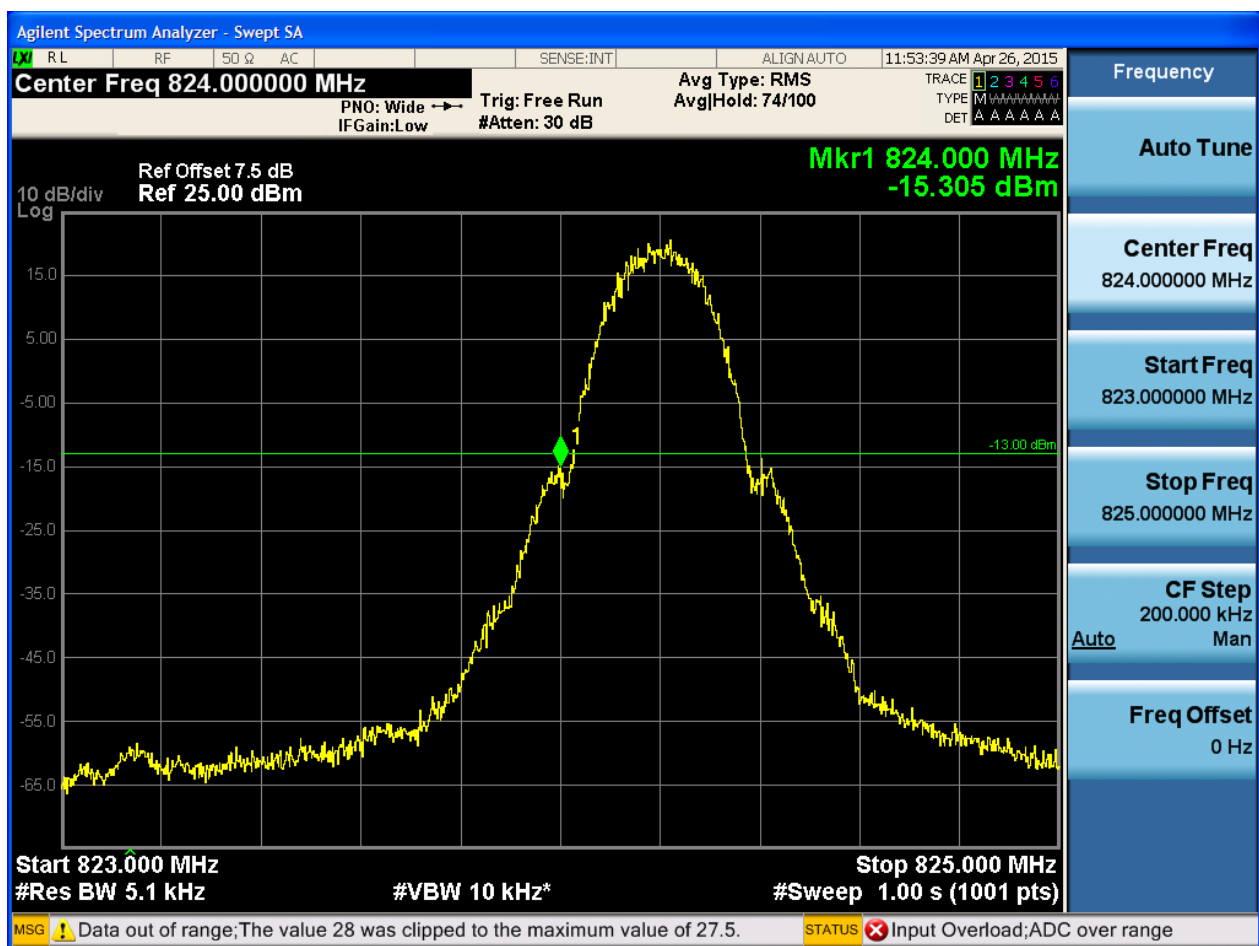
### Part I - Test Plots

#### 5.1 For GSM

##### 5.1.1 Test Band = GSM850

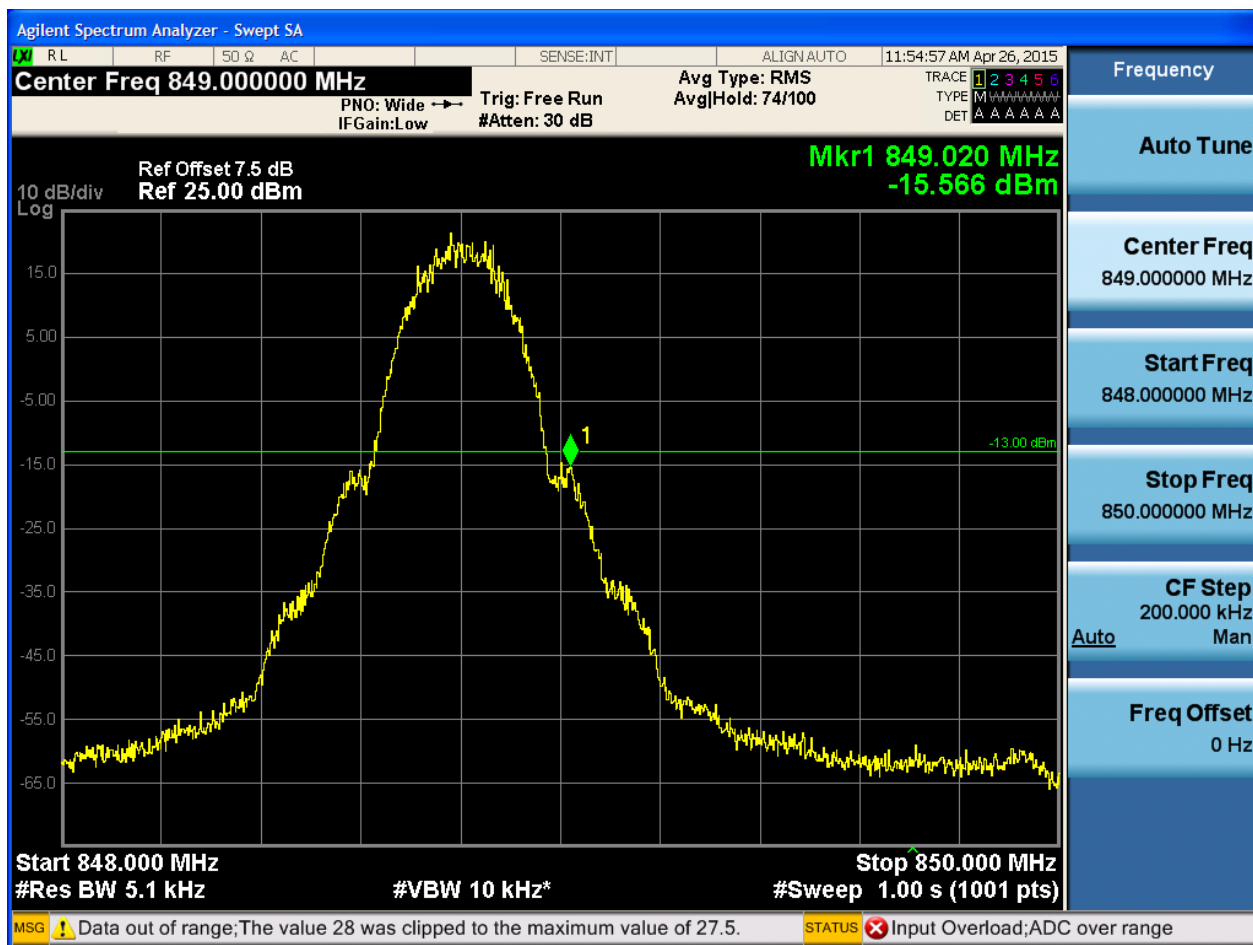
##### 5.1.1.1 Test Mode = GSM/TM1

##### 5.1.1.1.1 Test Channel = LCH



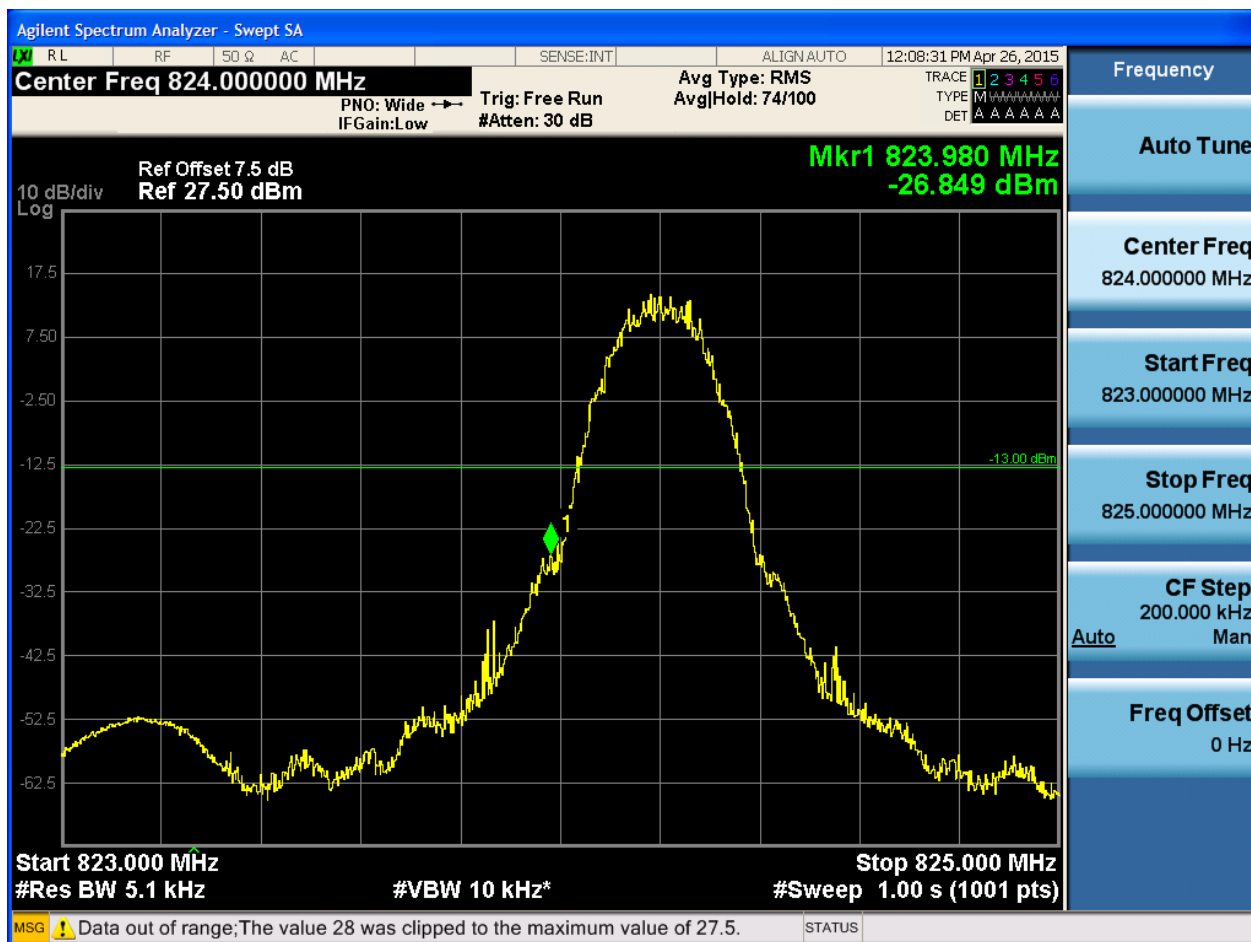


## 5.1.1.1.2 Test Channel = HCH



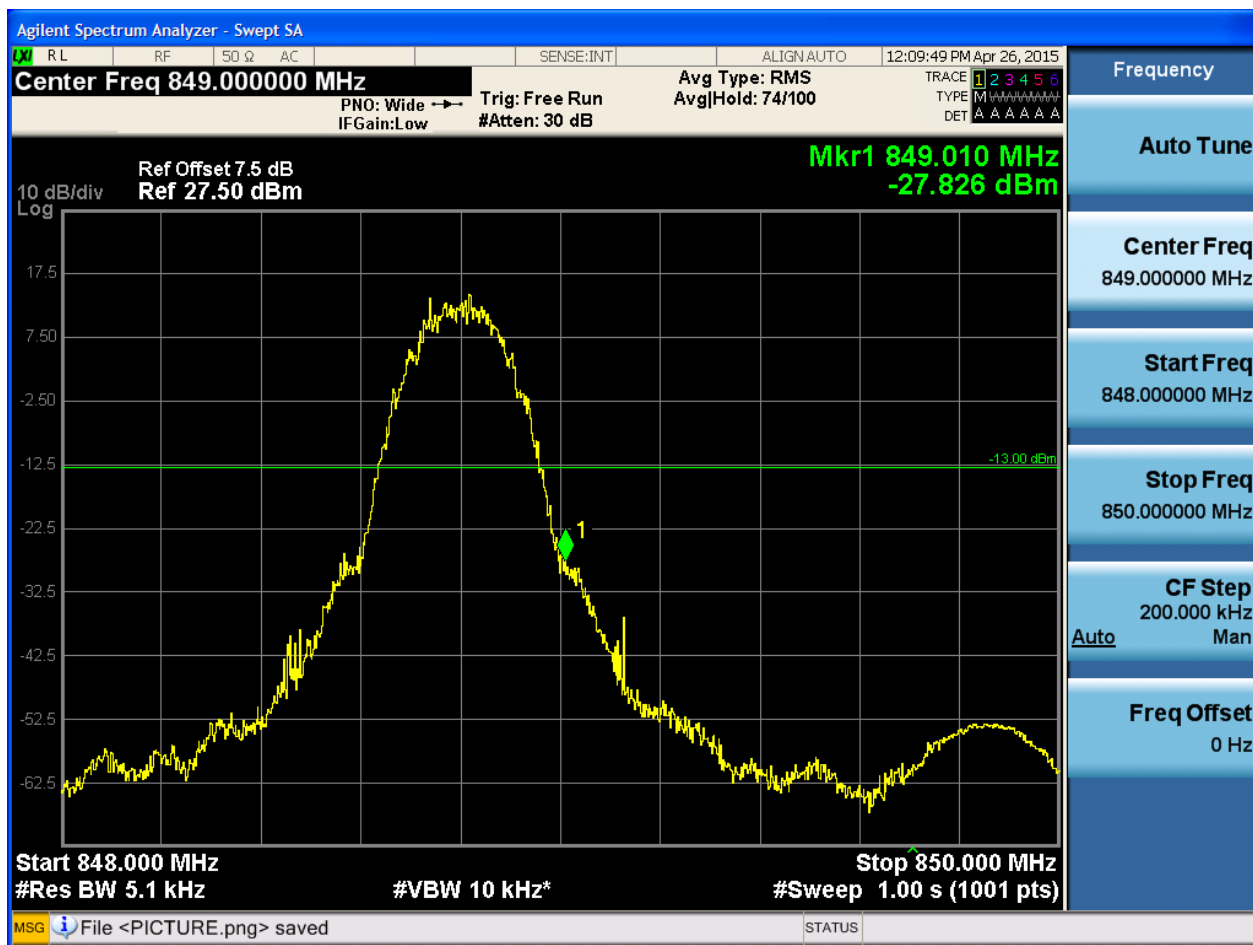
### 5.1.1.2 Test Mode = GSM/TM2

#### 5.1.1.2.1 Test Channel = LCH





## 5.1.1.2.2 Test Channel = HCH

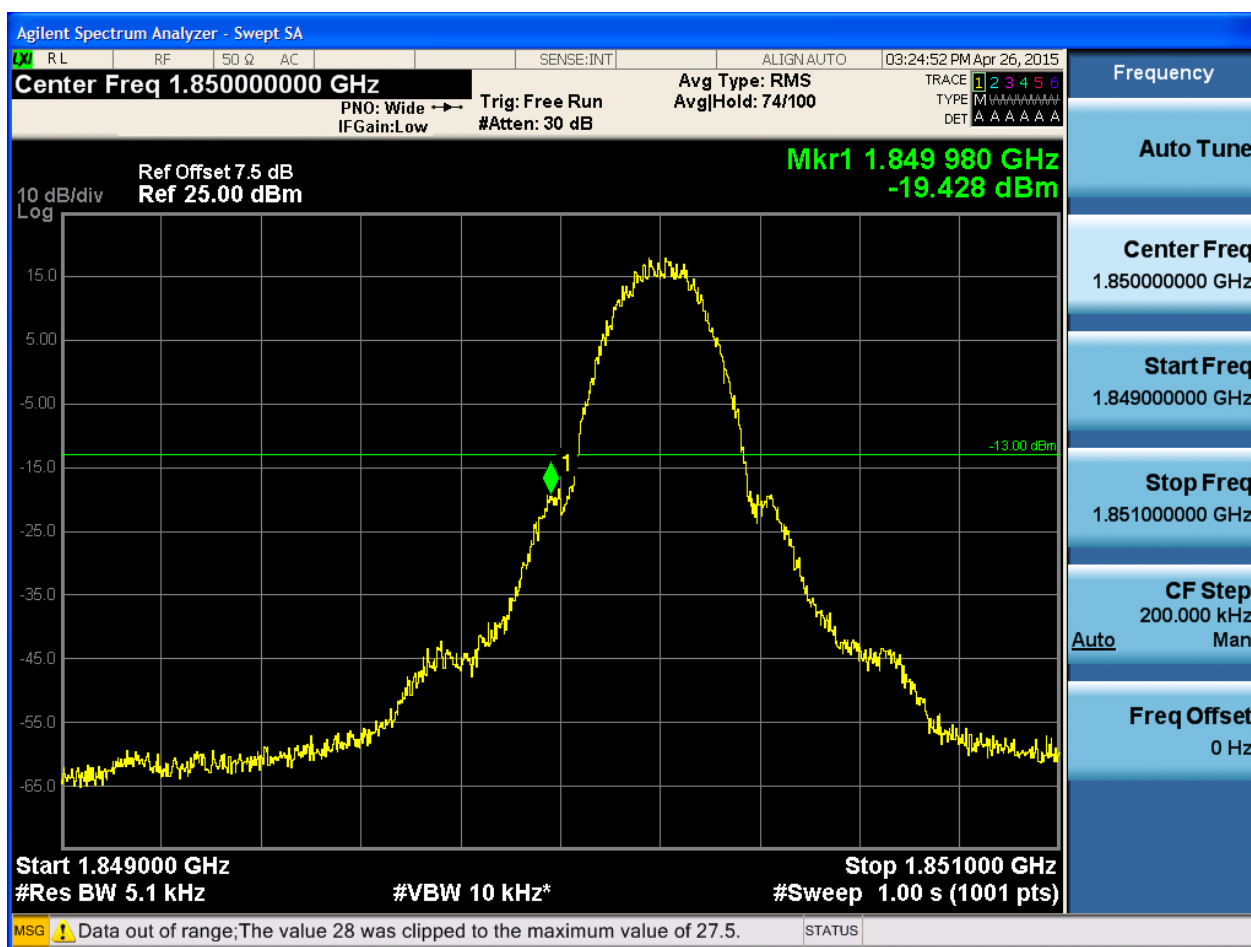




## 5.1.2 Test Band = GSM1900

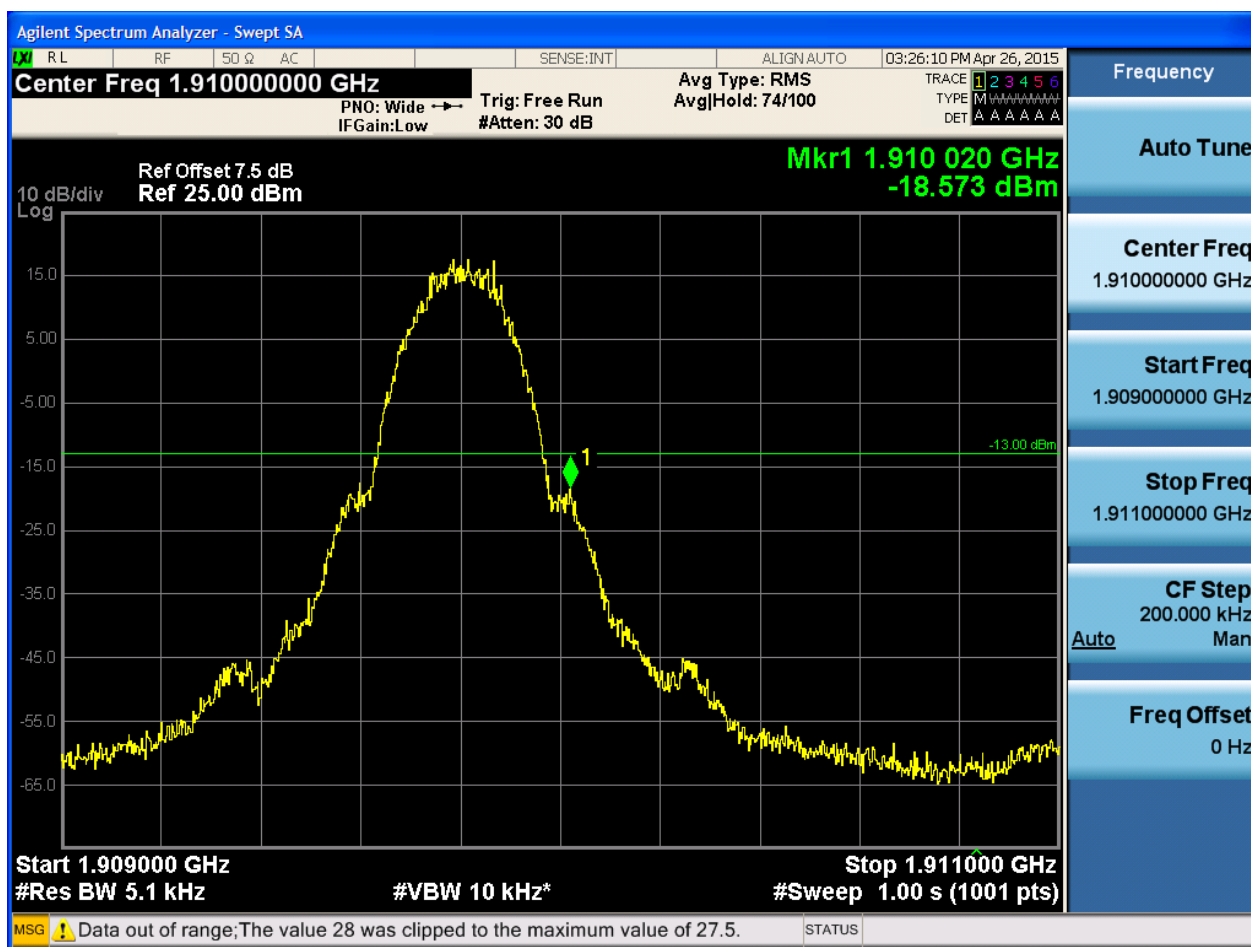
## 5.1.2.1 Test Mode = GSM/TM1

## 5.1.2.1.1 Test Channel = LCH





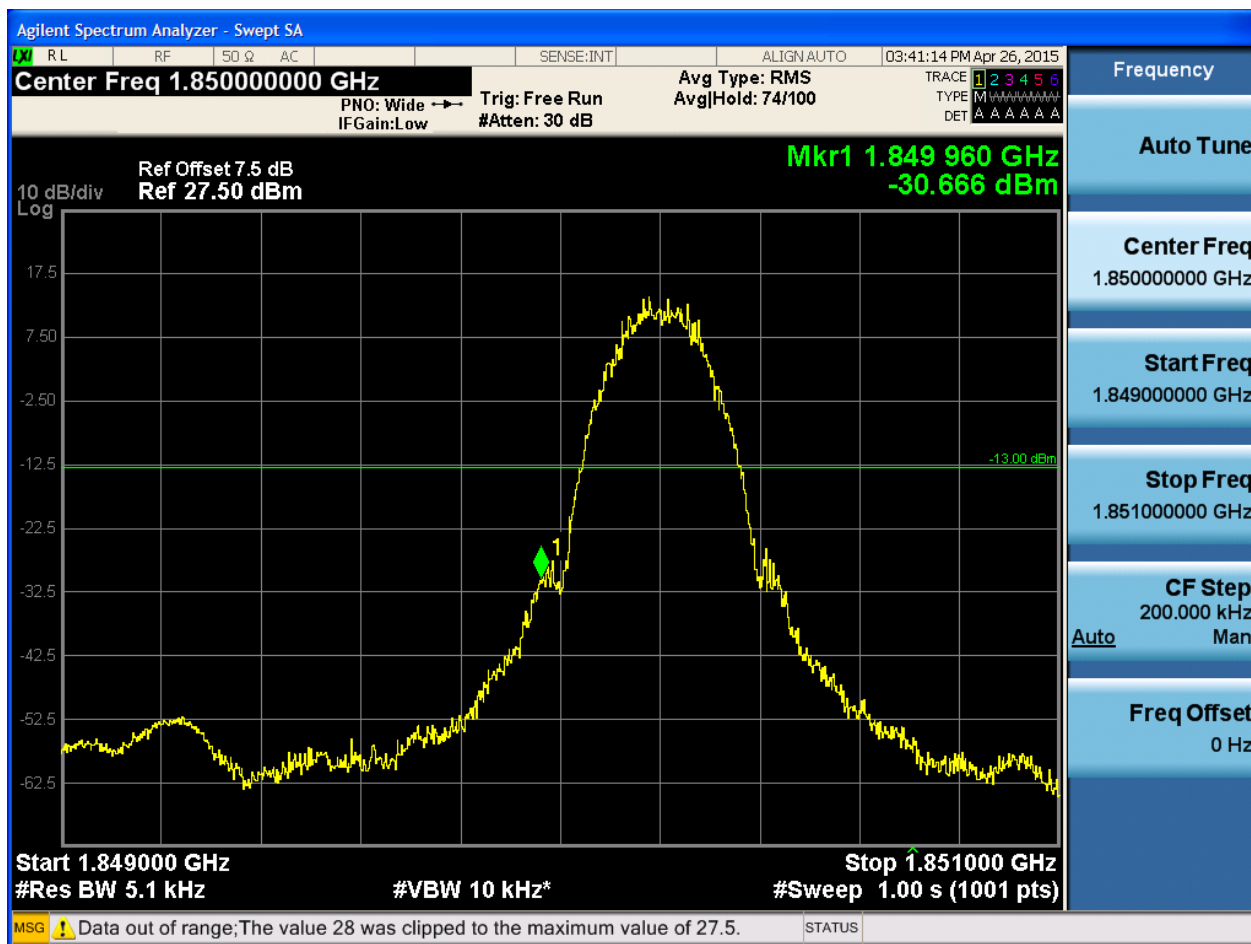
## 5.1.2.1.2 Test Channel = HCH





## 5.1.2.2 Test Mode = GSM/TM2

## 5.1.2.2.1 Test Channel = LCH





## 5.1.2.2.2 Test Channel = HCH



## 6Appendix\_F: Spurious Emission at Antenna Terminal

NOTE: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of  $< RBW/2$  so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =  $k * (Span / RBW)$ " with  $k$  between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

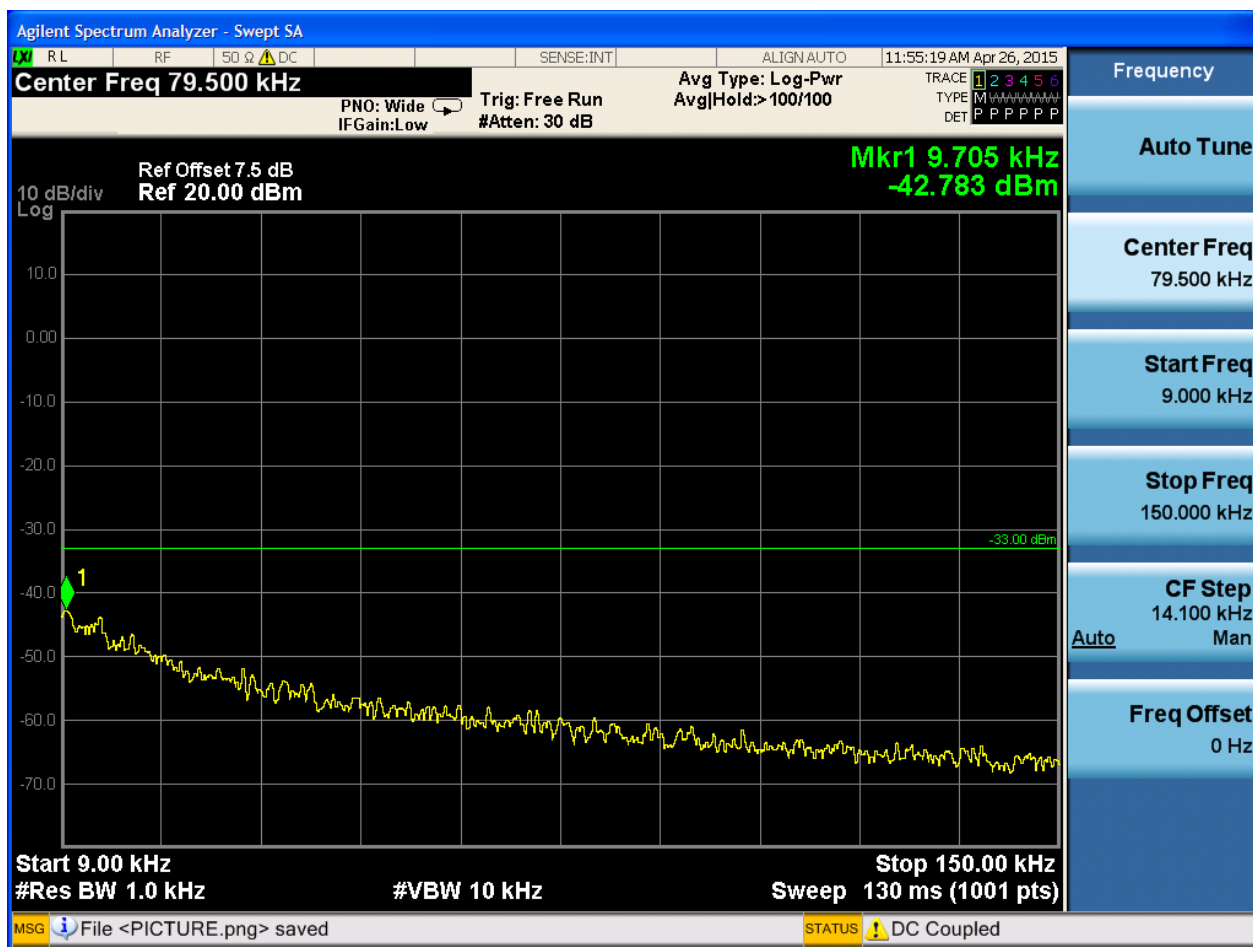
### Part I - Test Plots

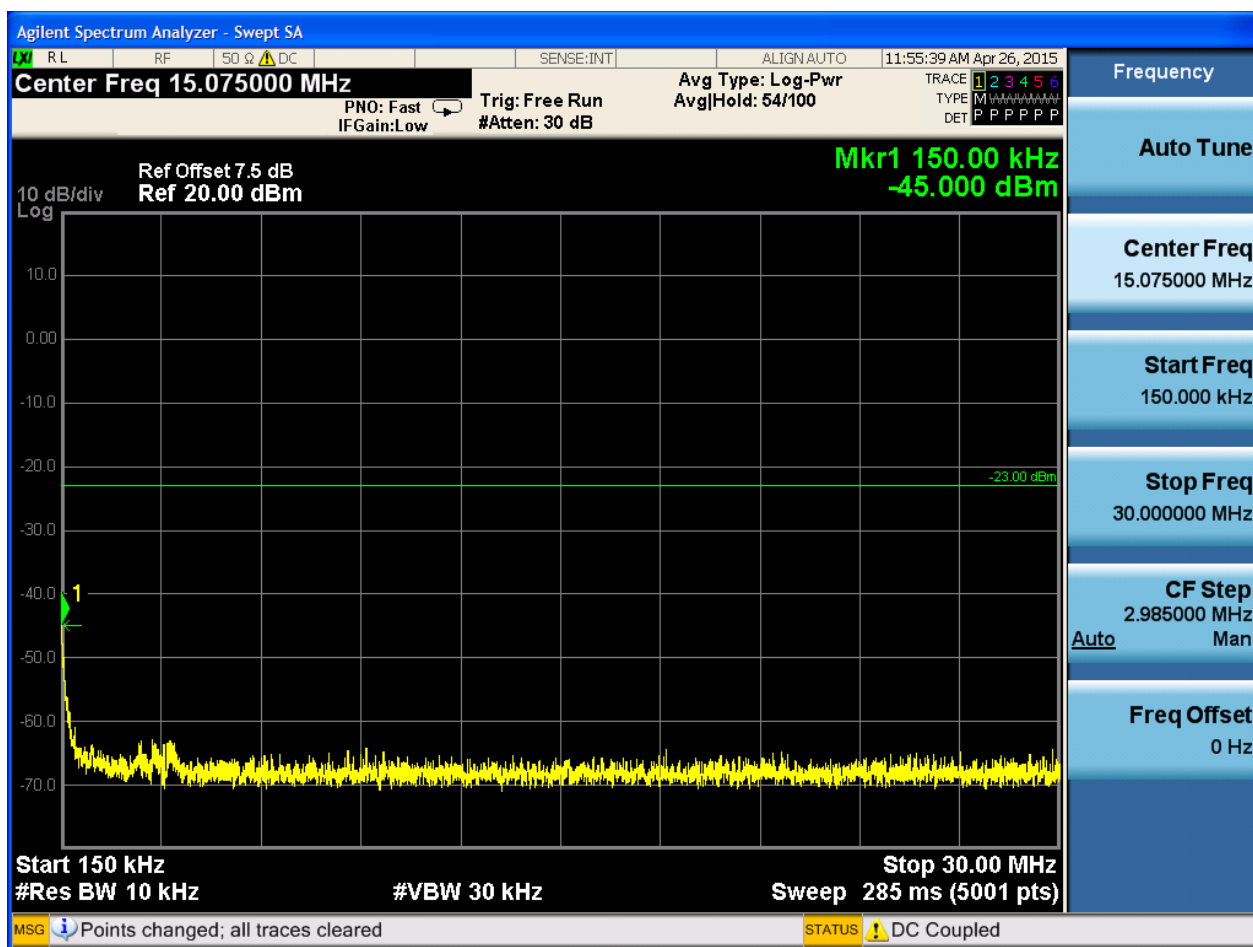
#### 6.1 For GSM

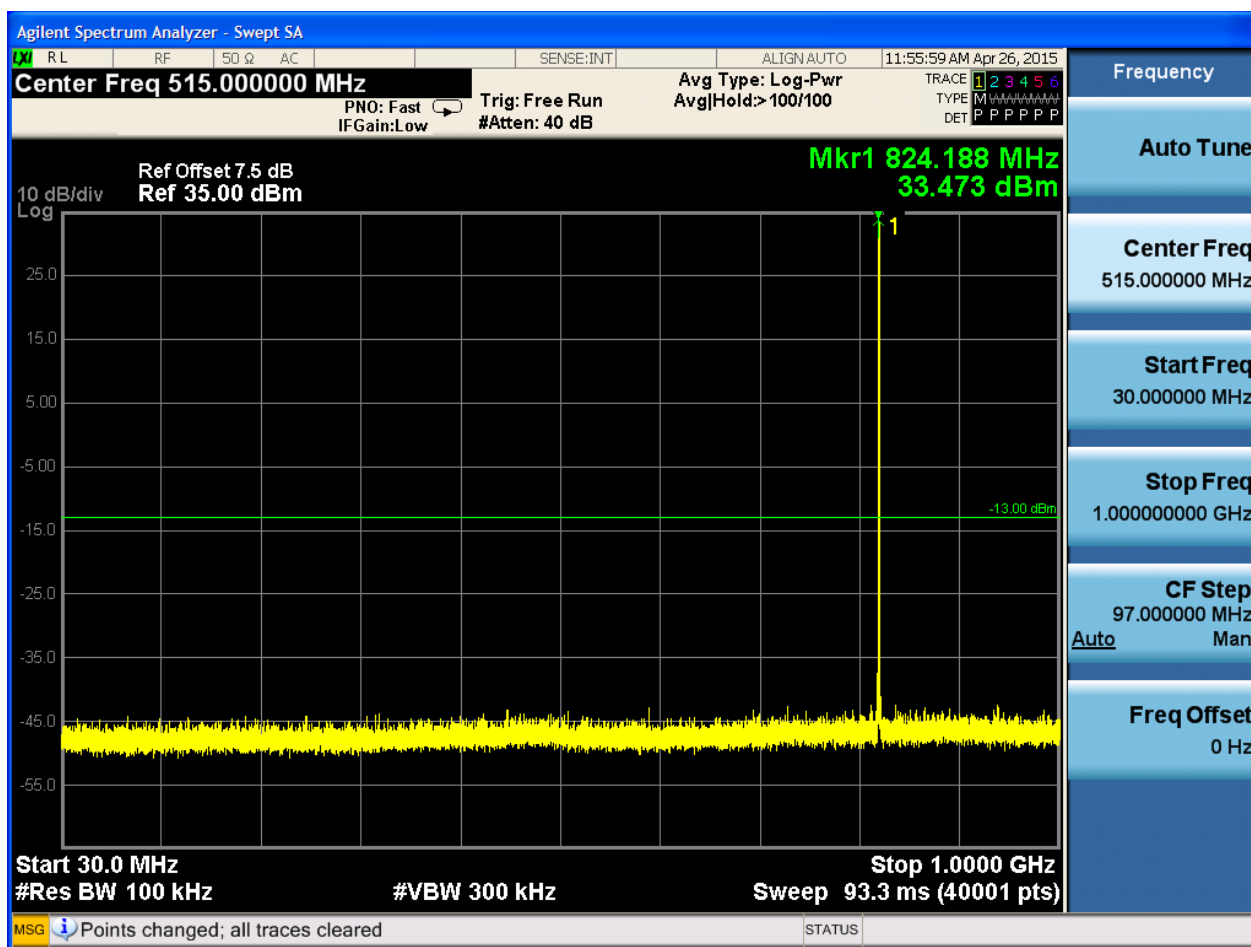
##### 6.1.1 Test Band = GSM850

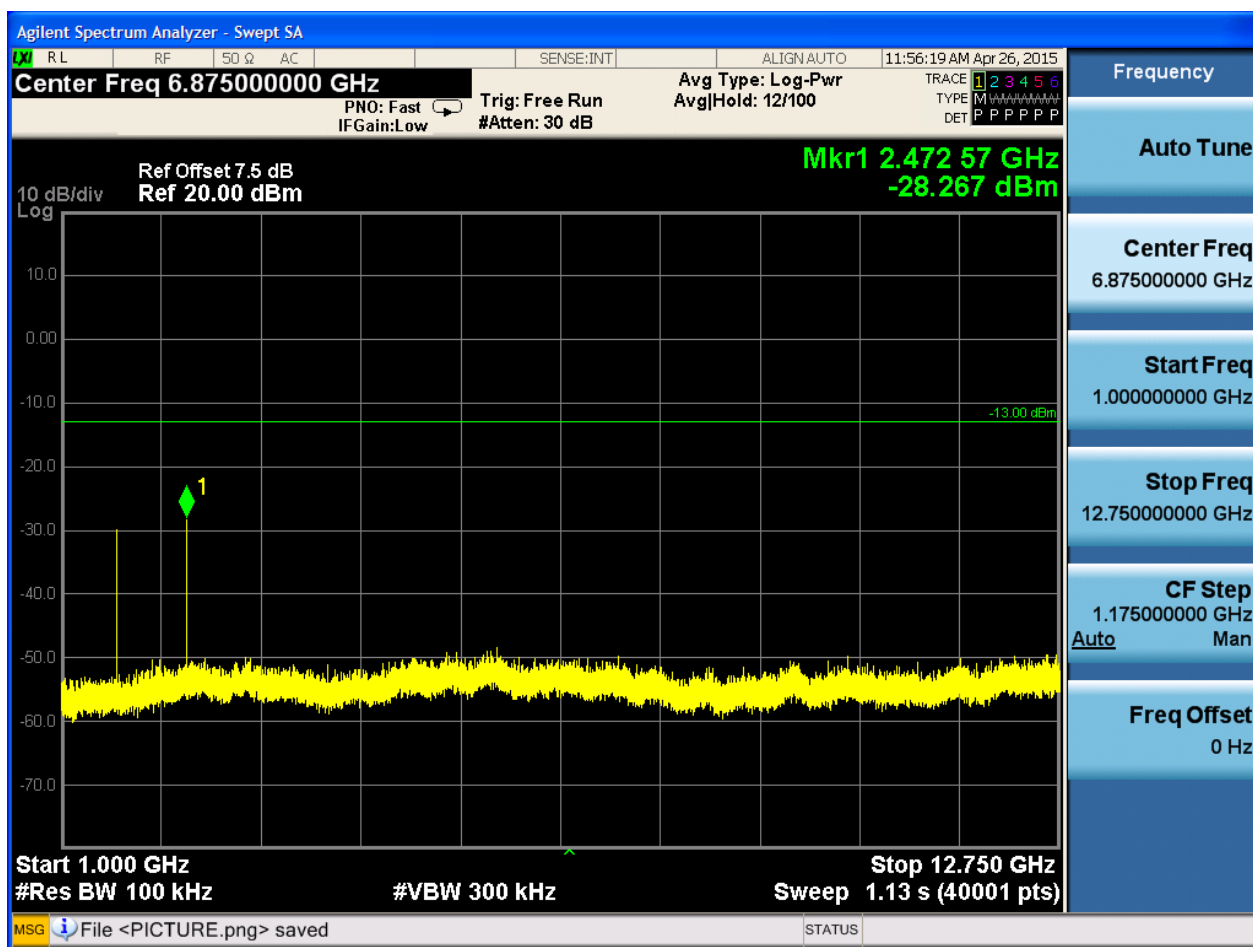
##### 6.1.1.1 Test Mode = GSM/TM1

##### 6.1.1.1.1 Test Channel = LCH

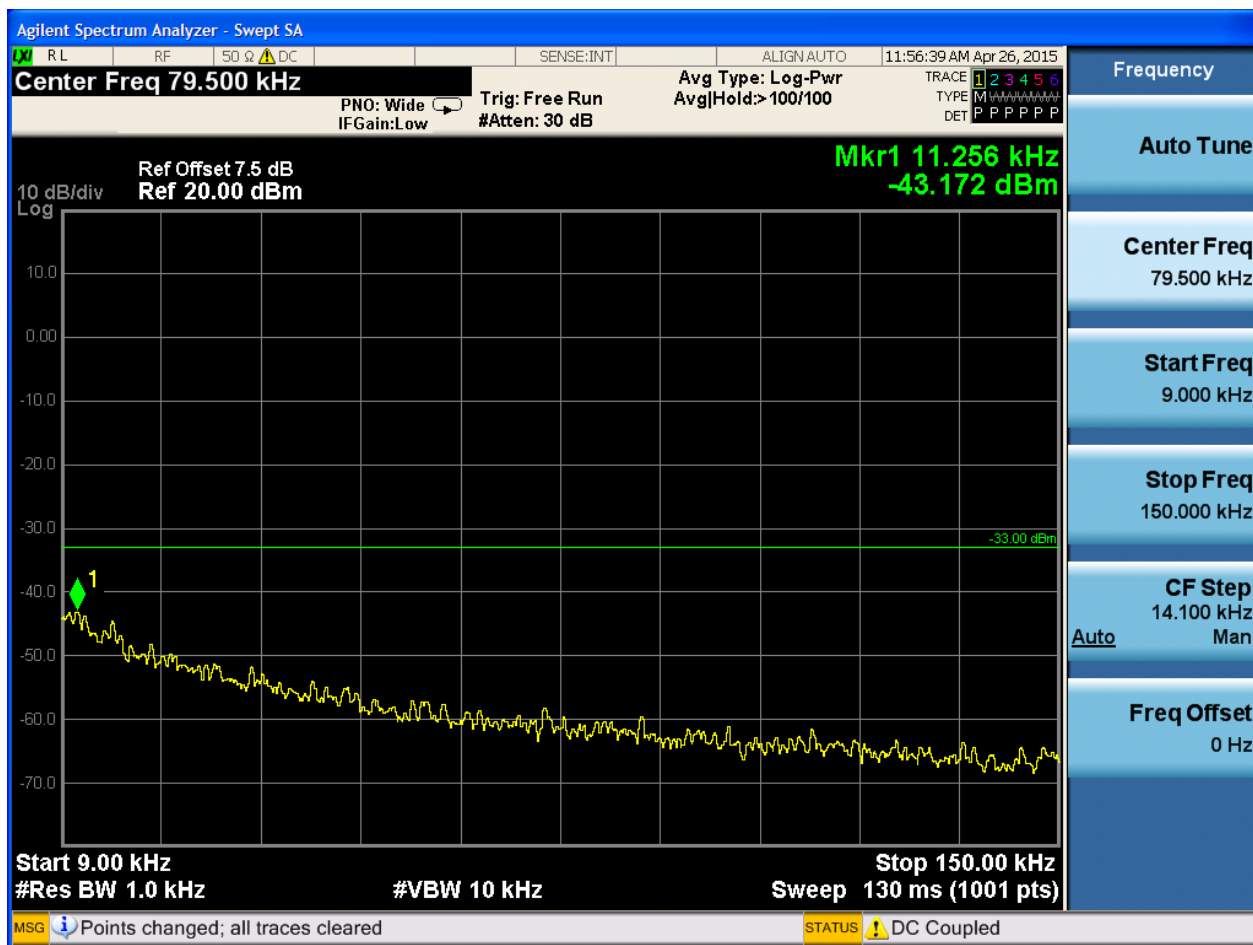


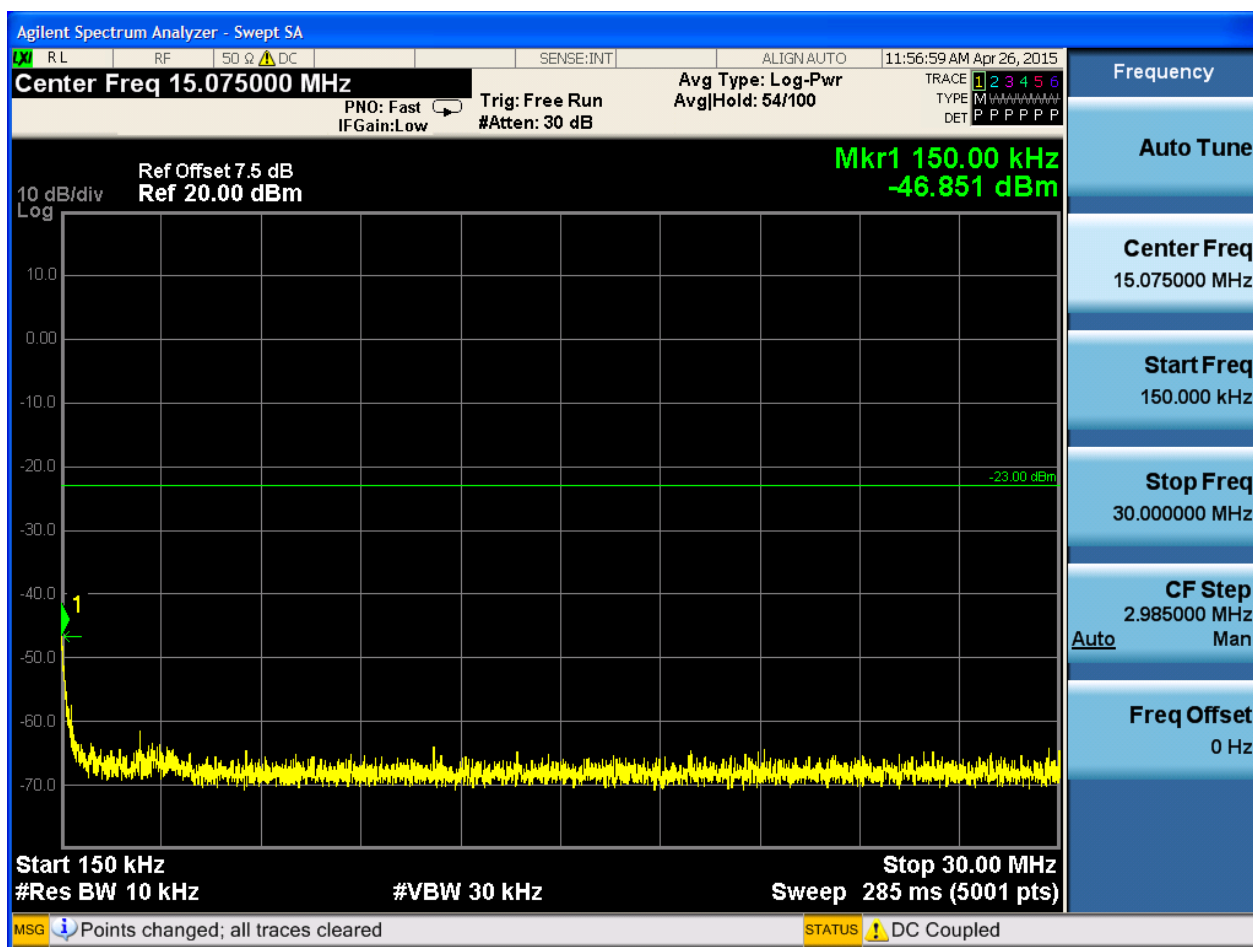


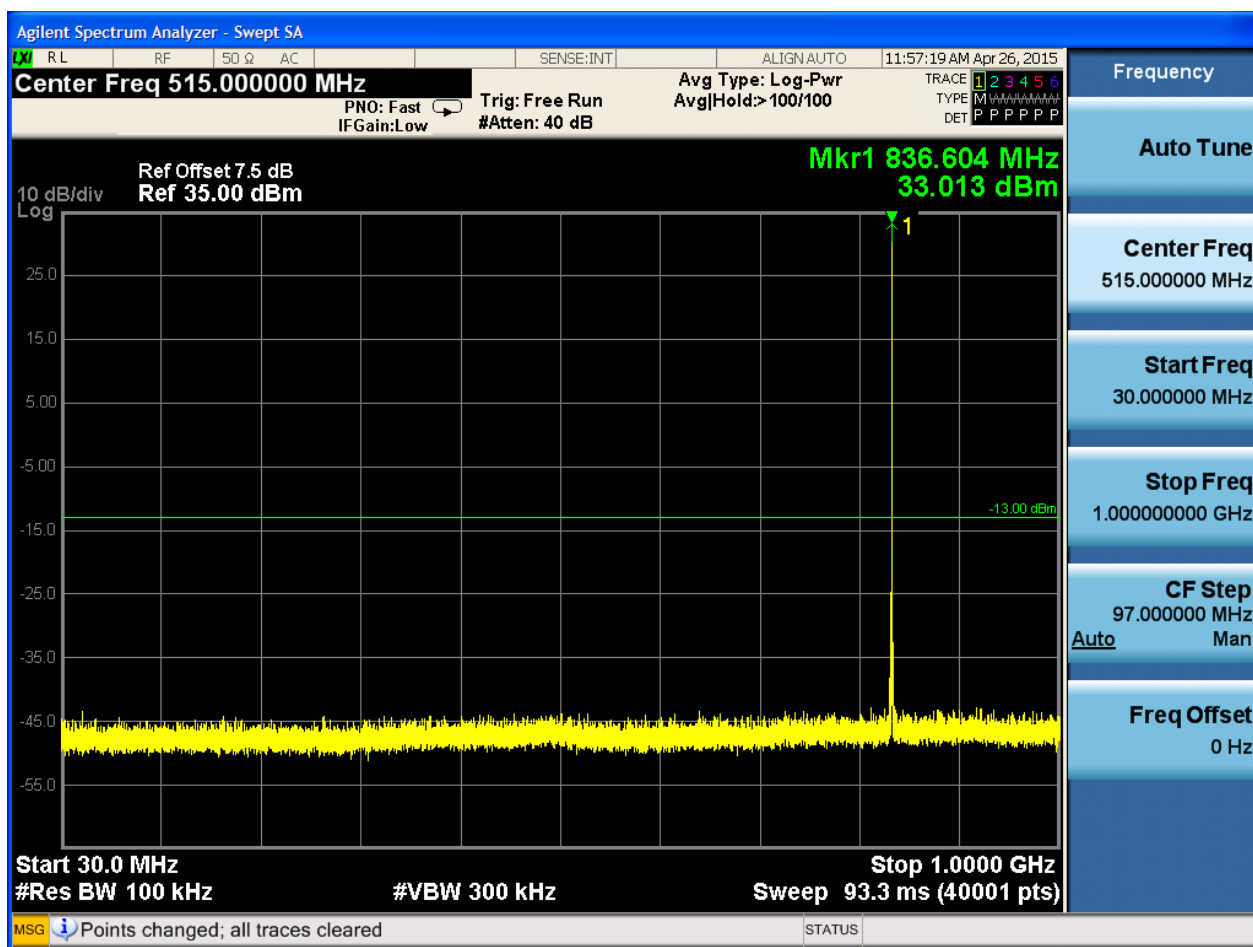


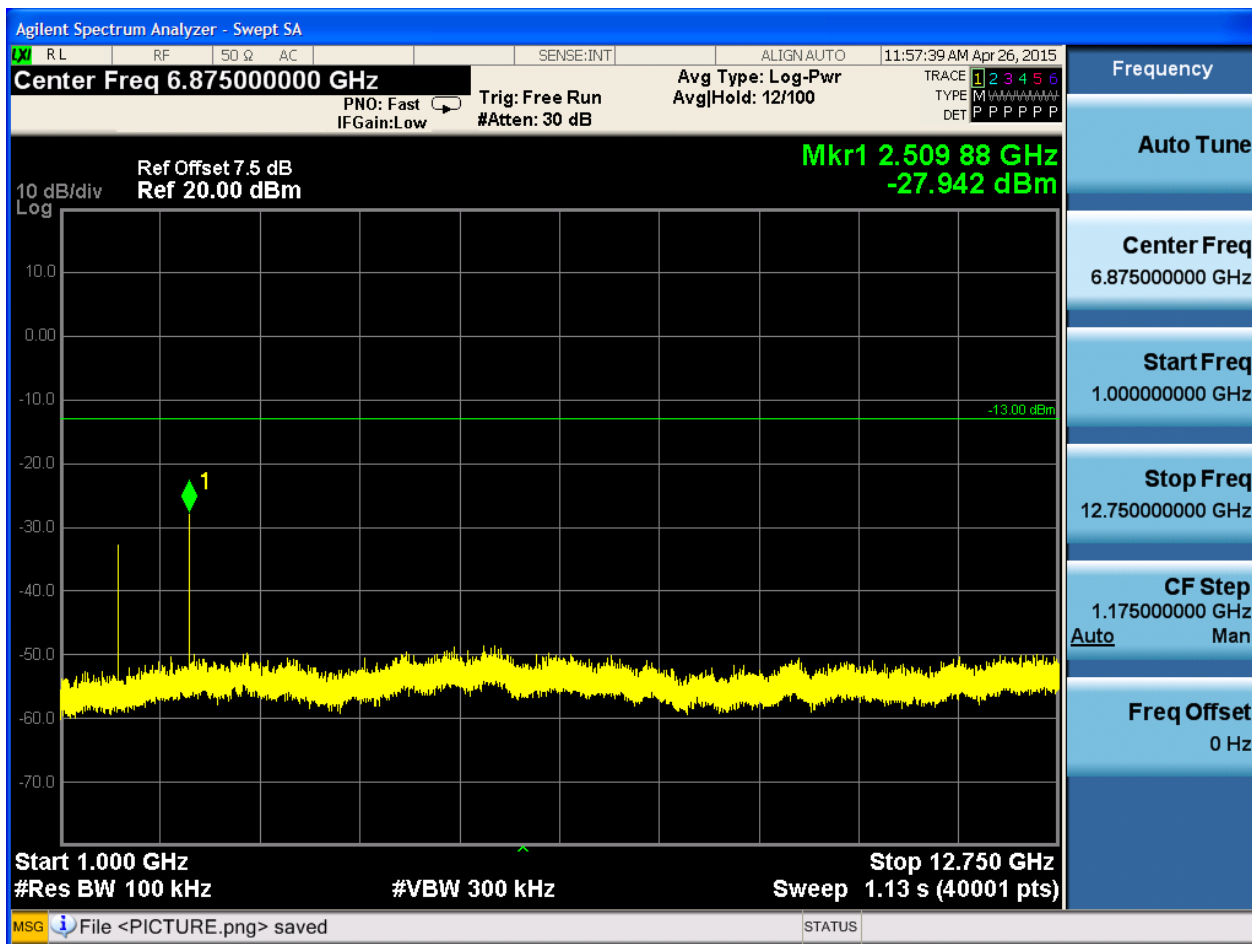


### 6.1.1.1.2 Test Channel = MCH

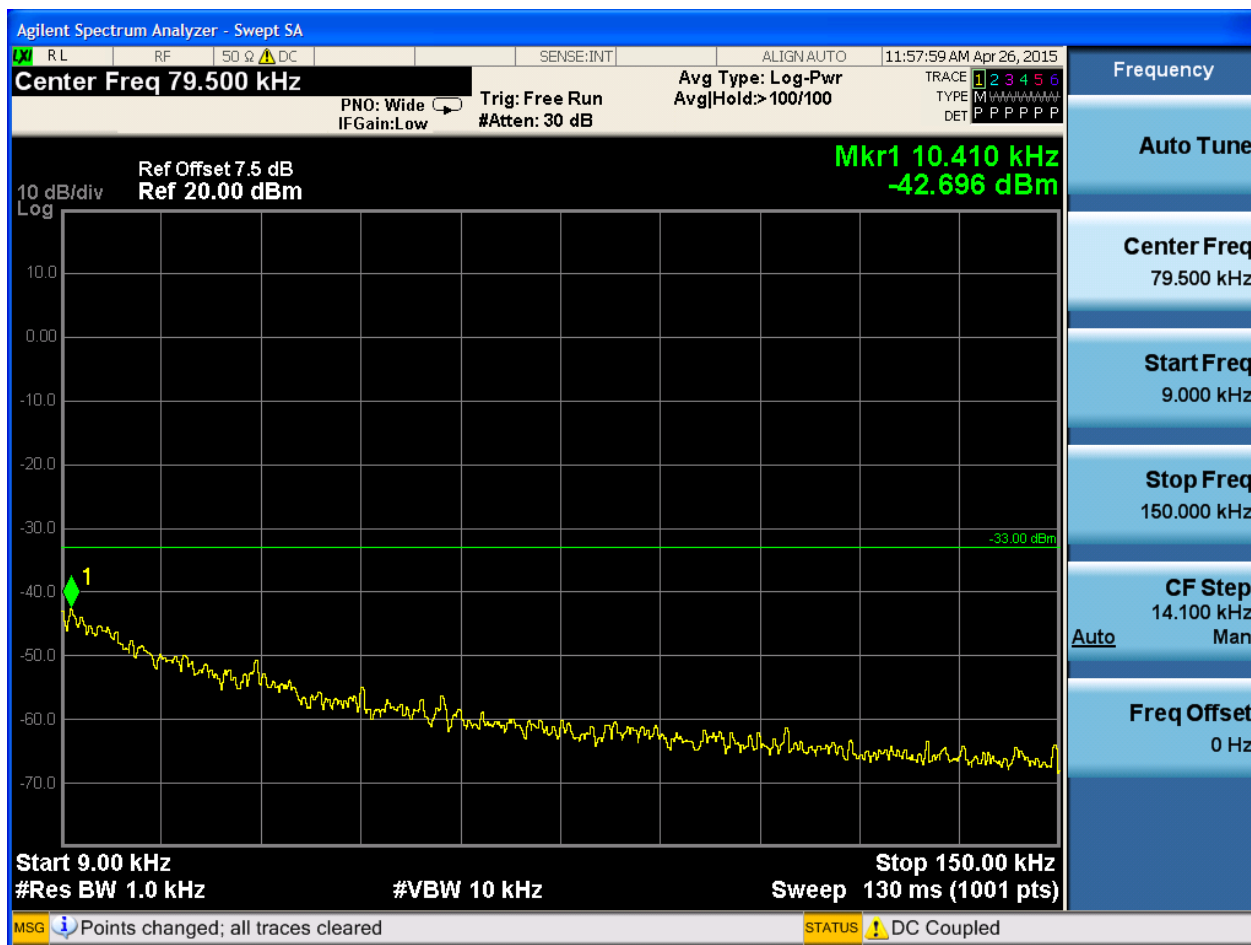


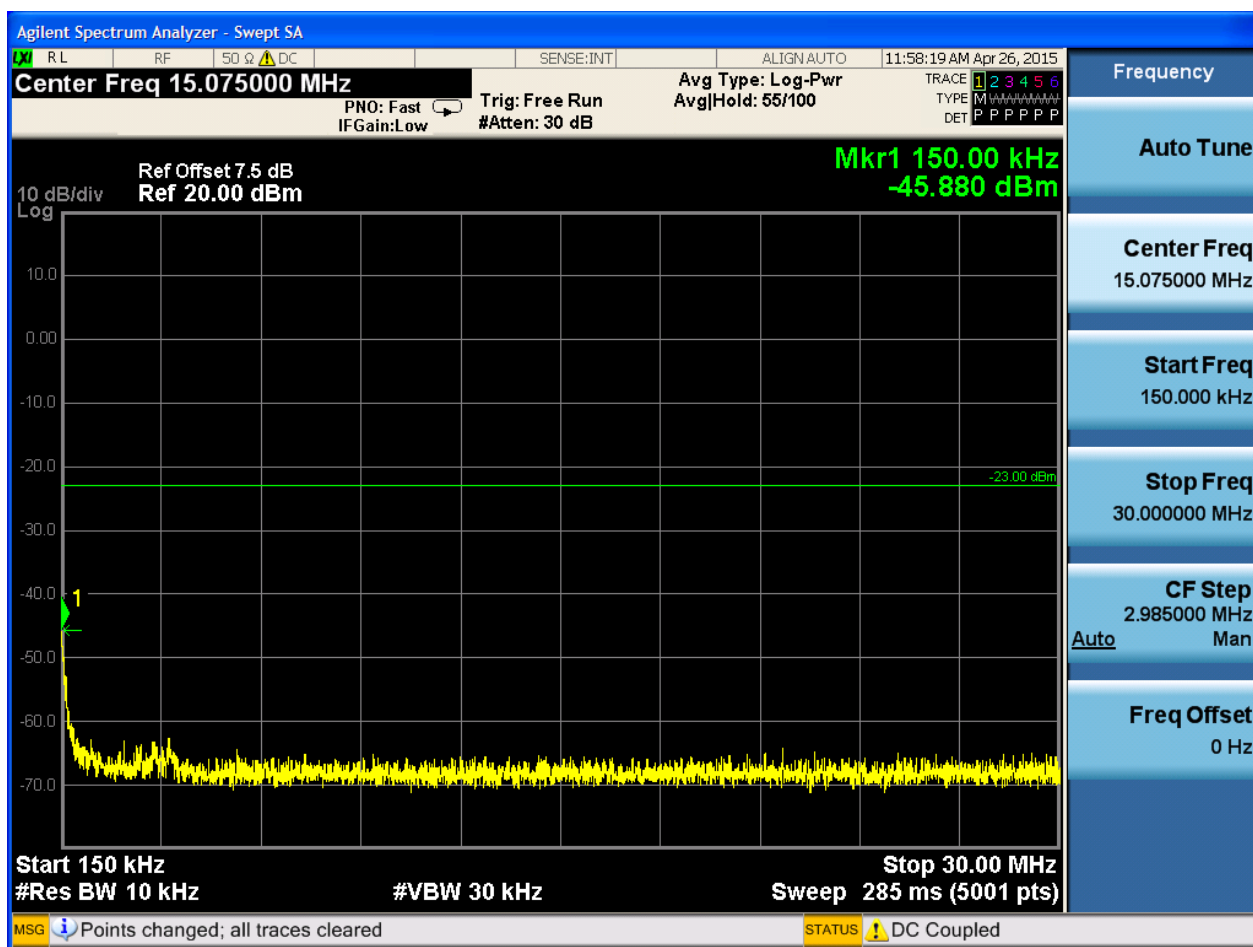


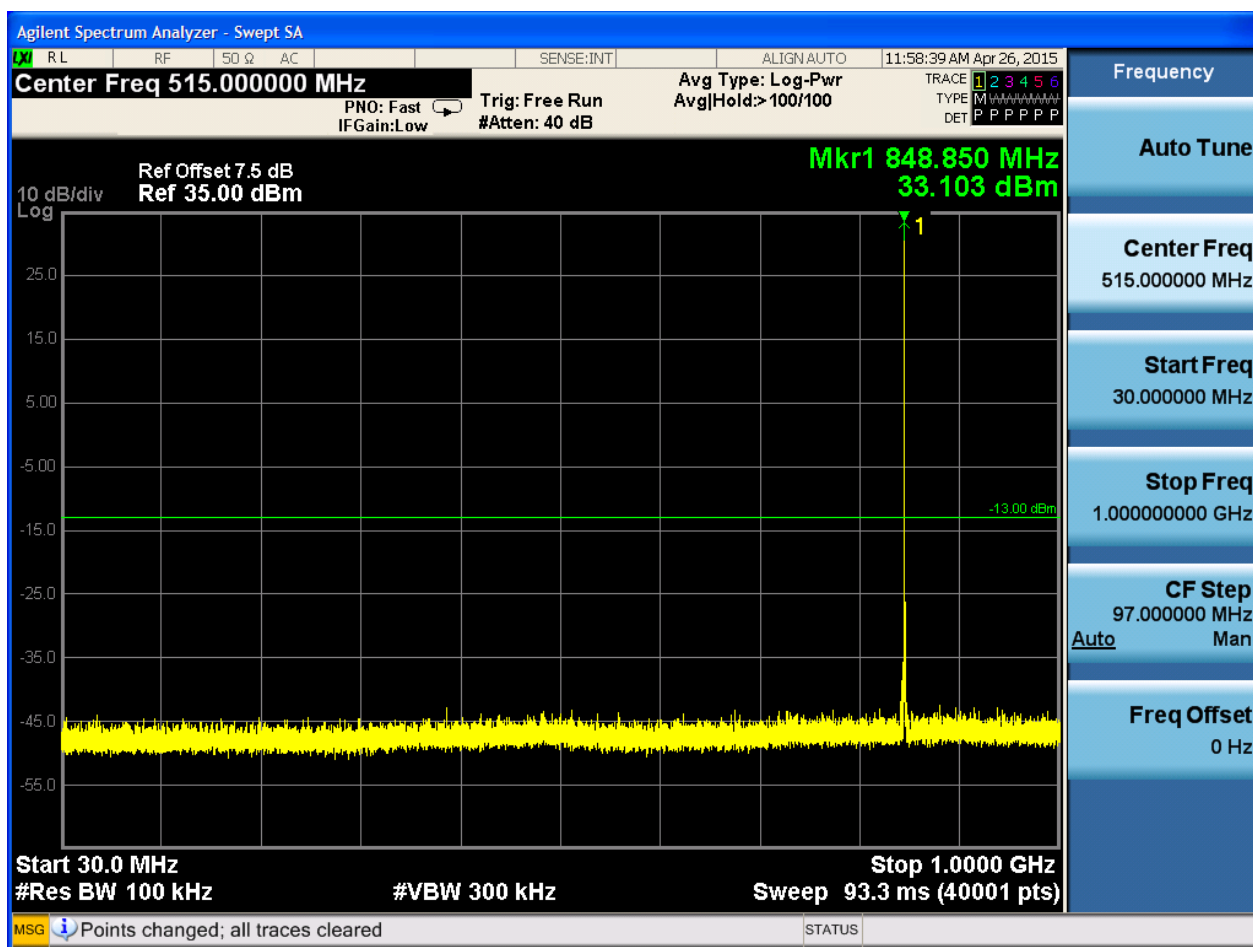


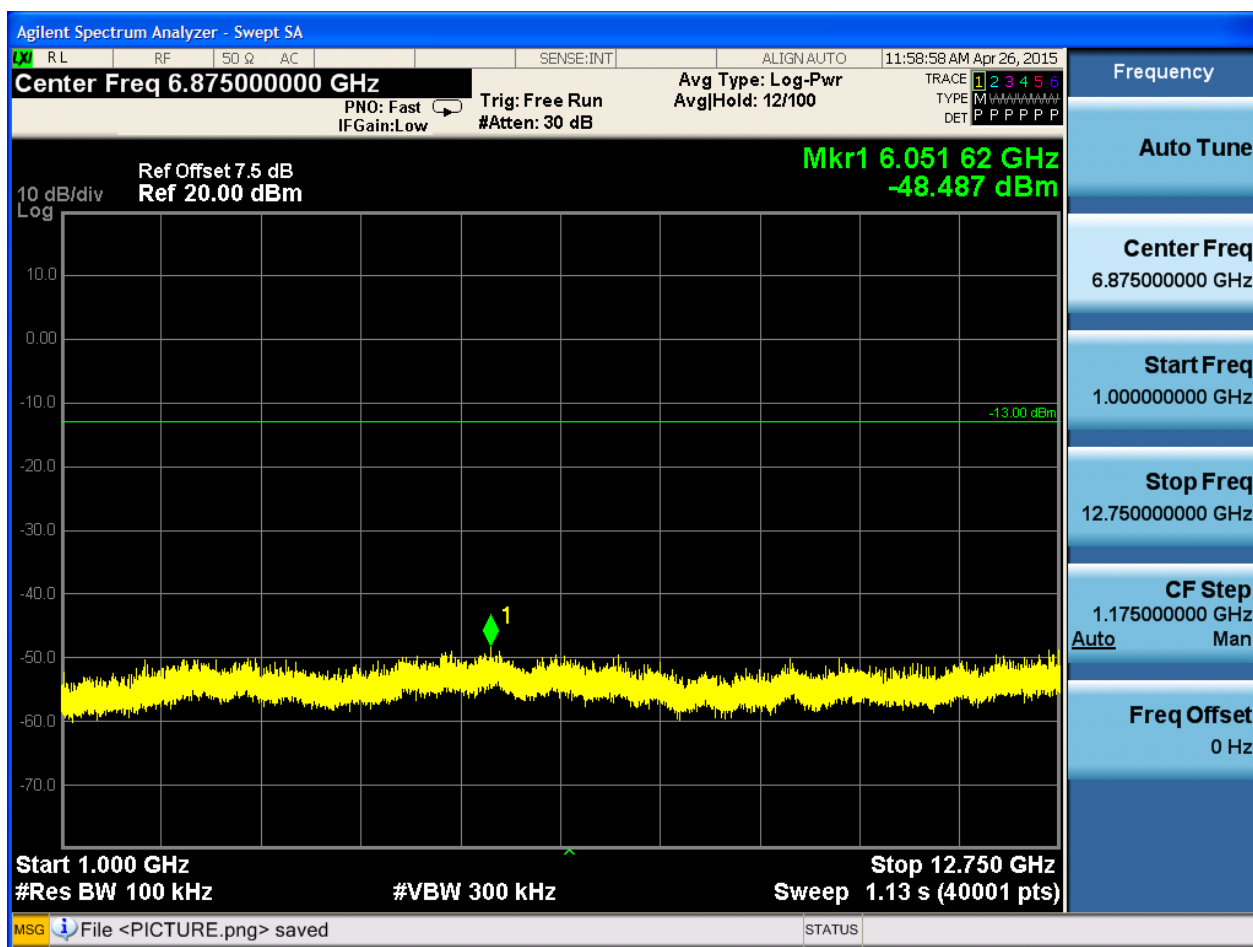


### 6.1.1.1.3 Test Channel = HCH





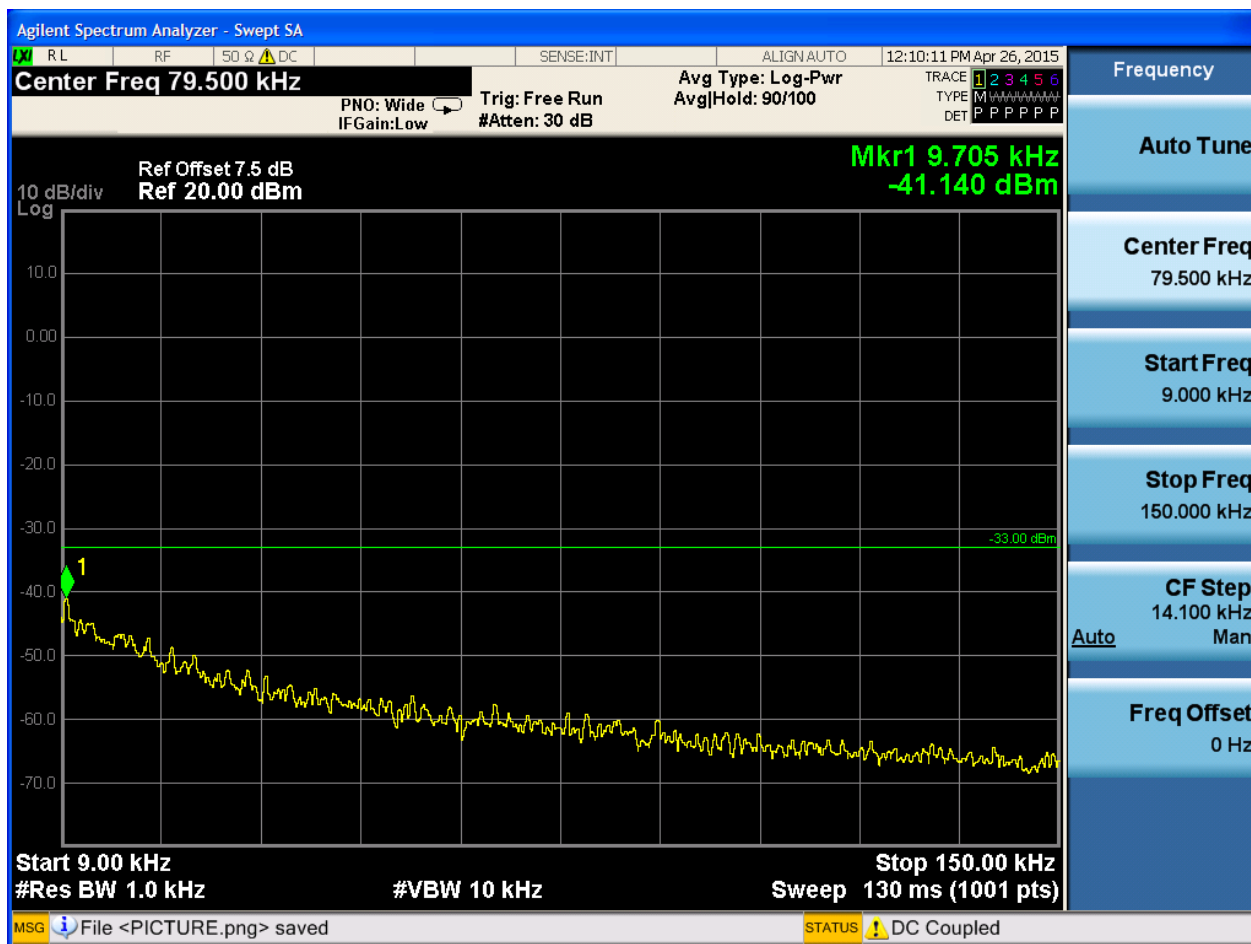


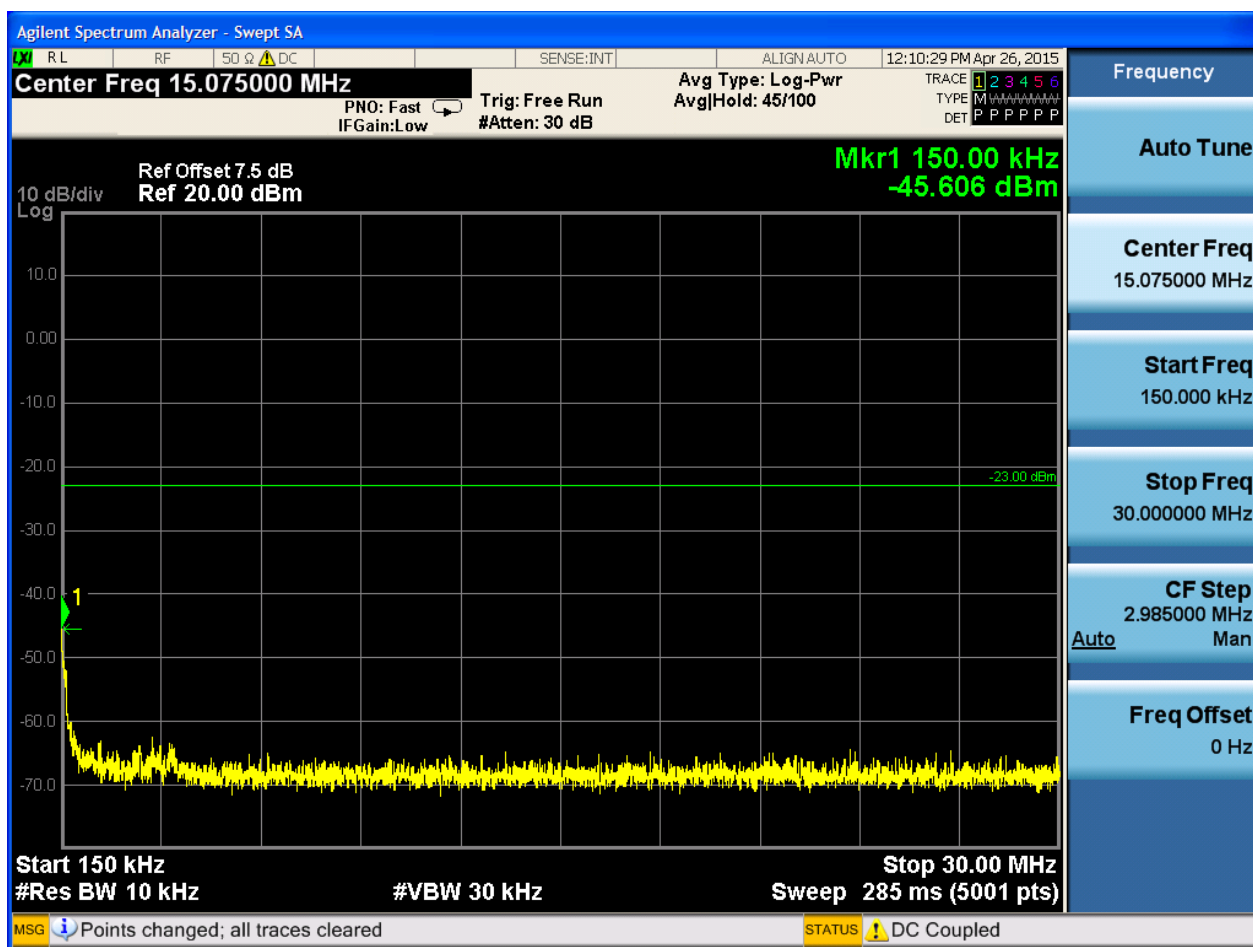


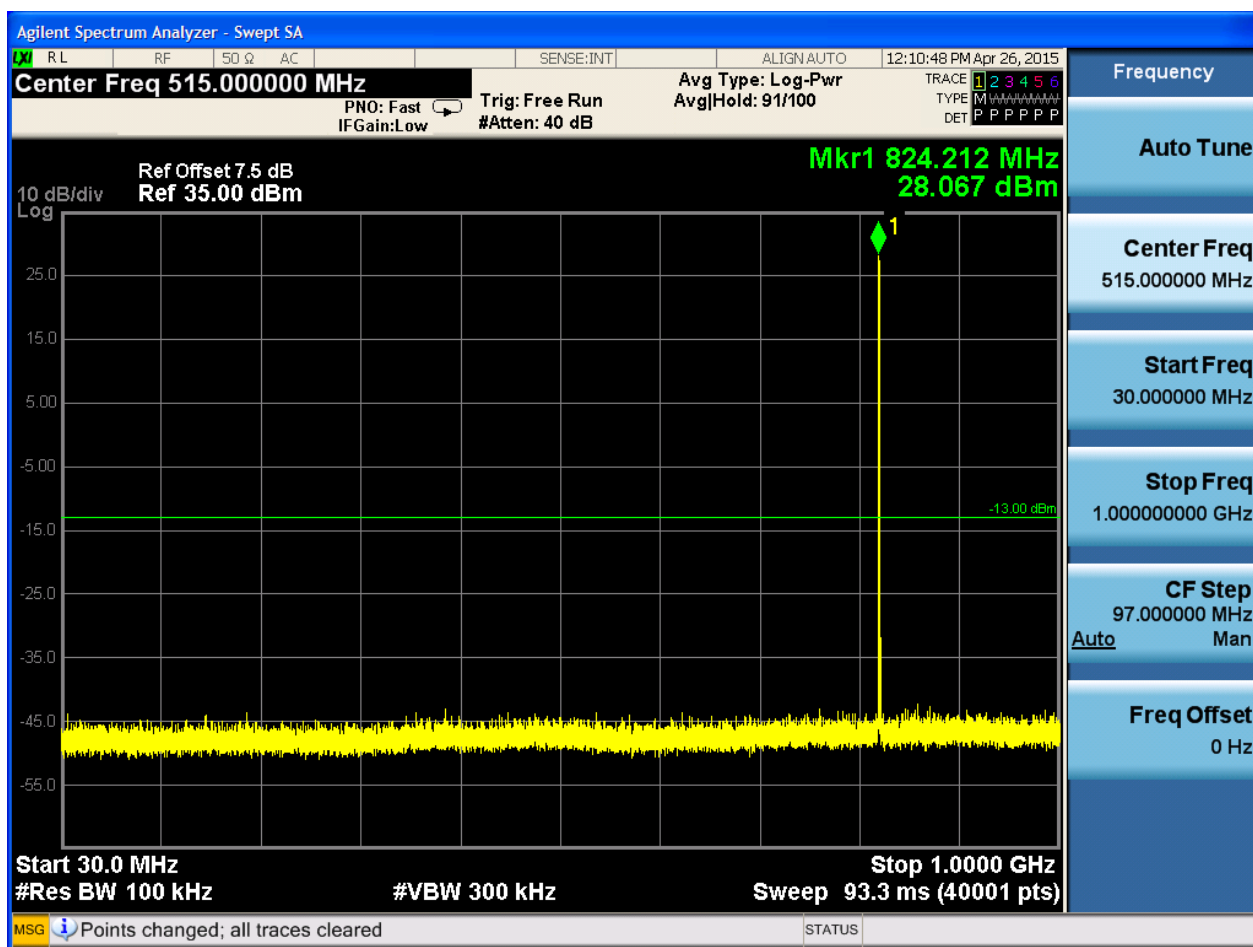


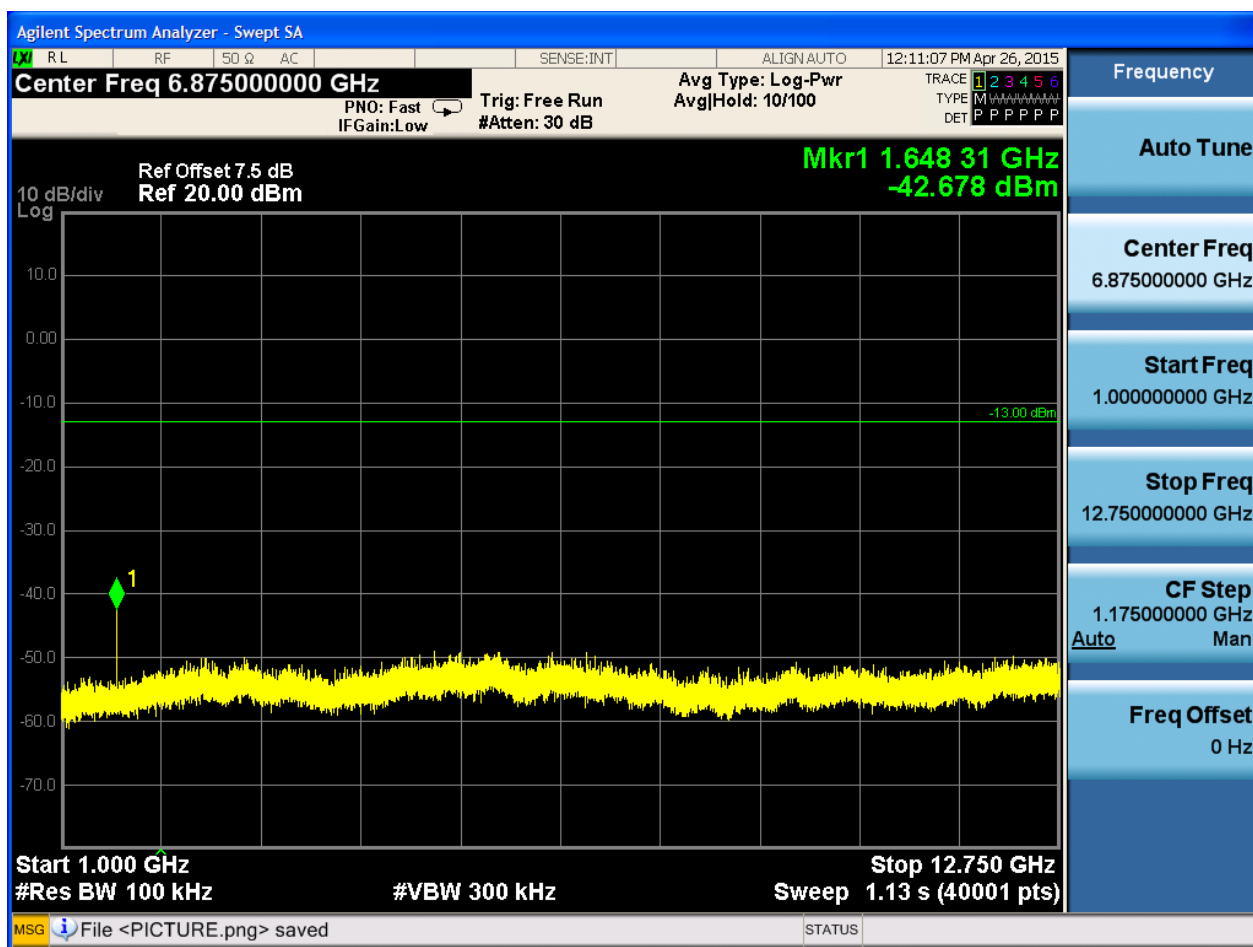
## 6.1.1.2 Test Mode = GSM/TM2

## 6.1.1.2.1 Test Channel = LCH



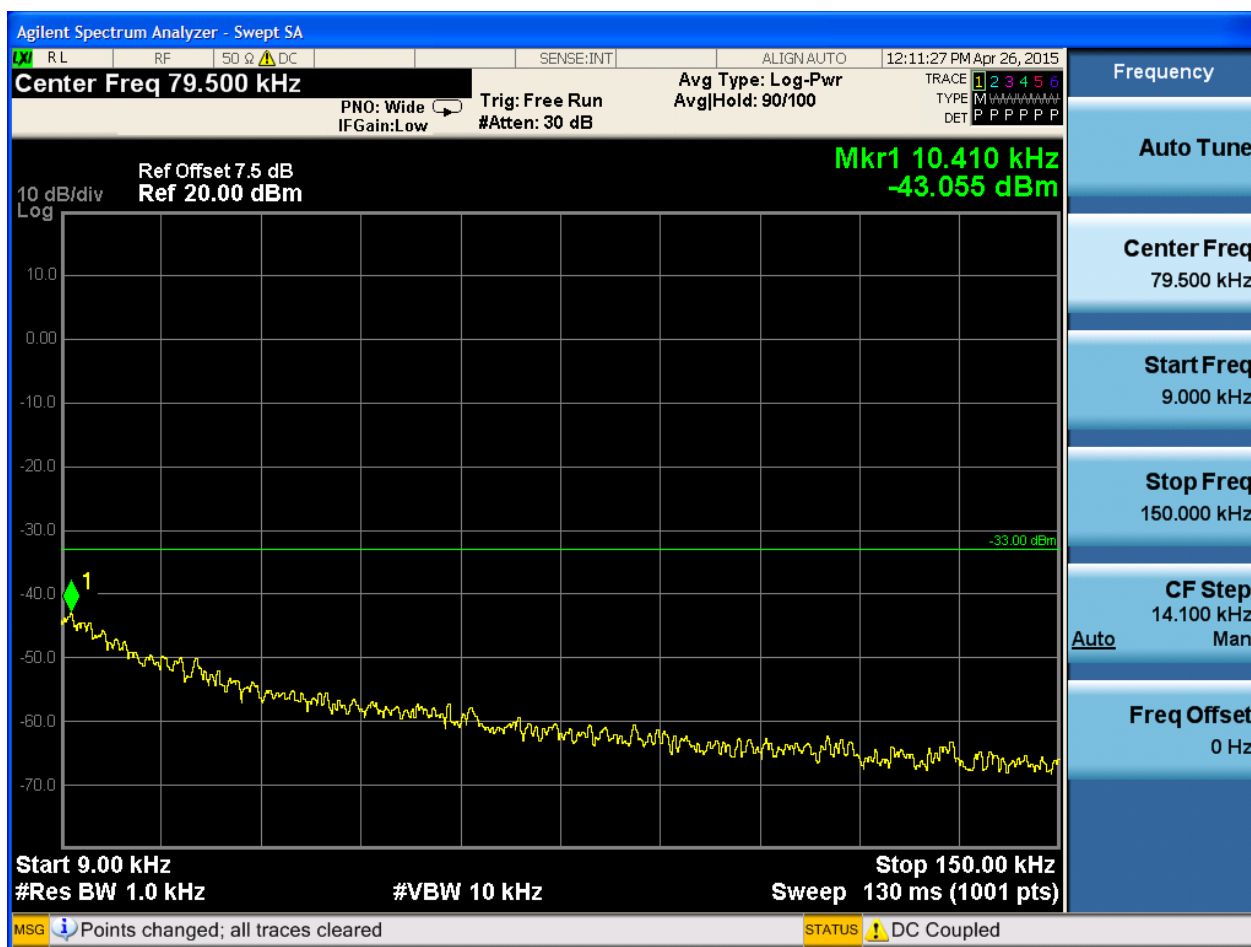


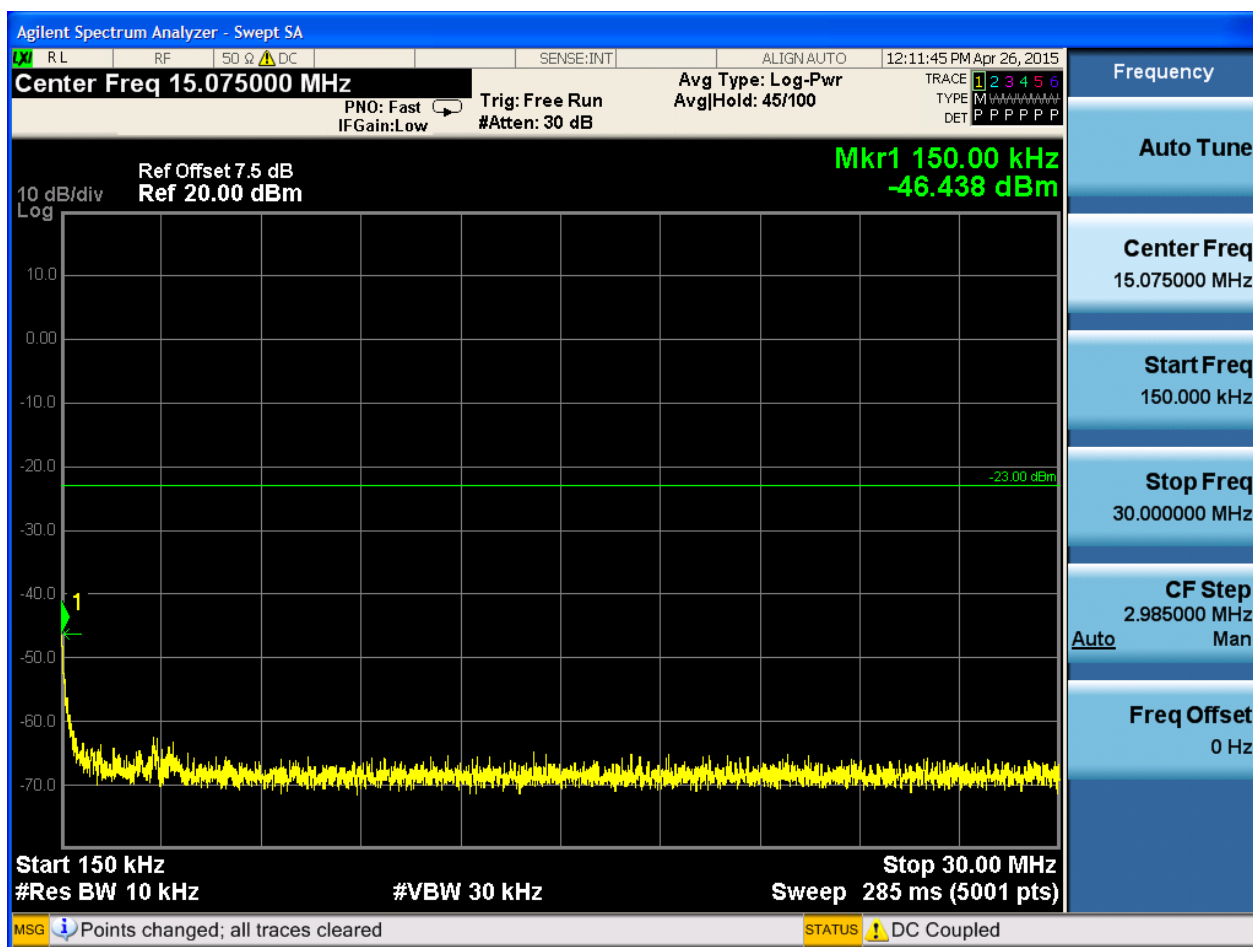


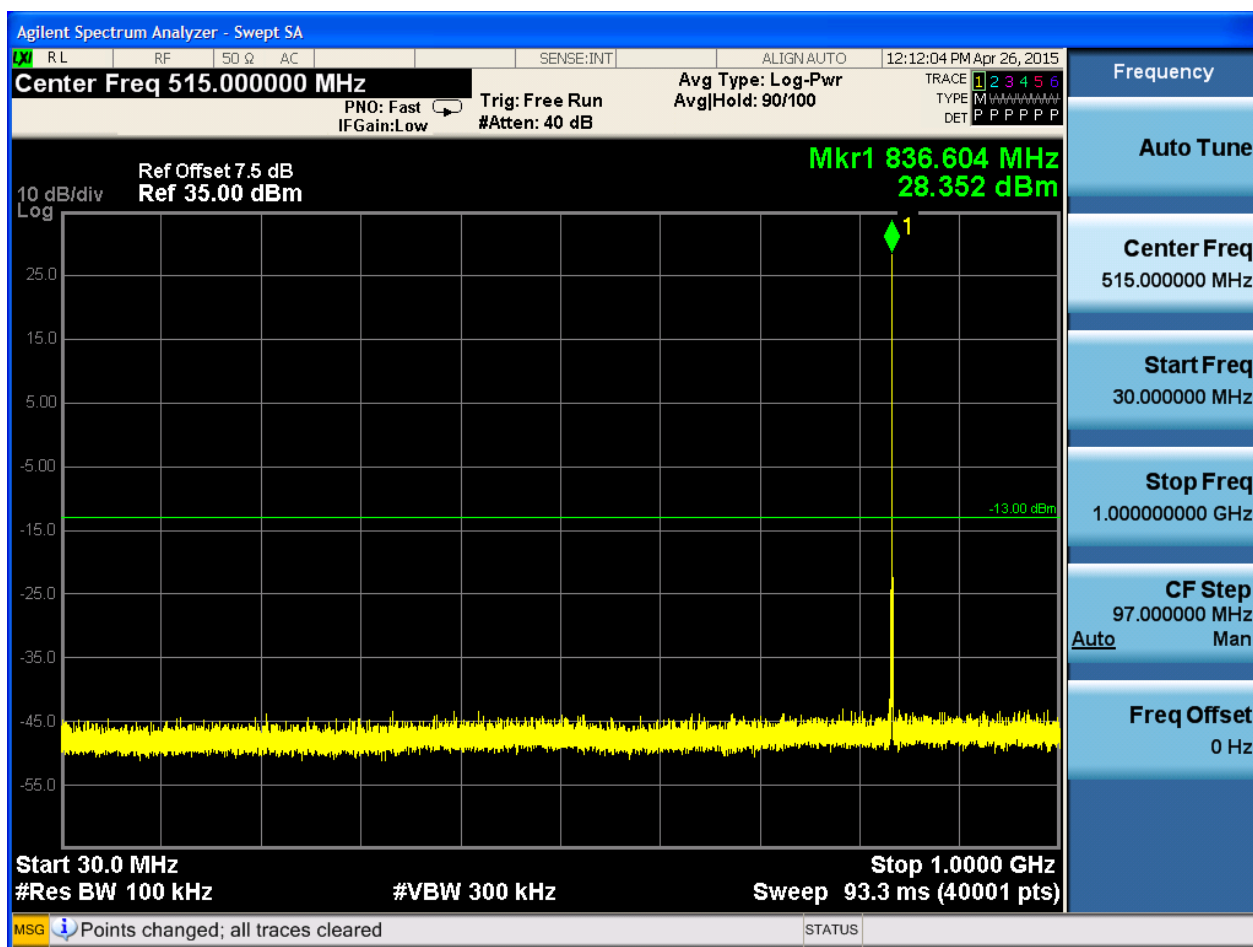


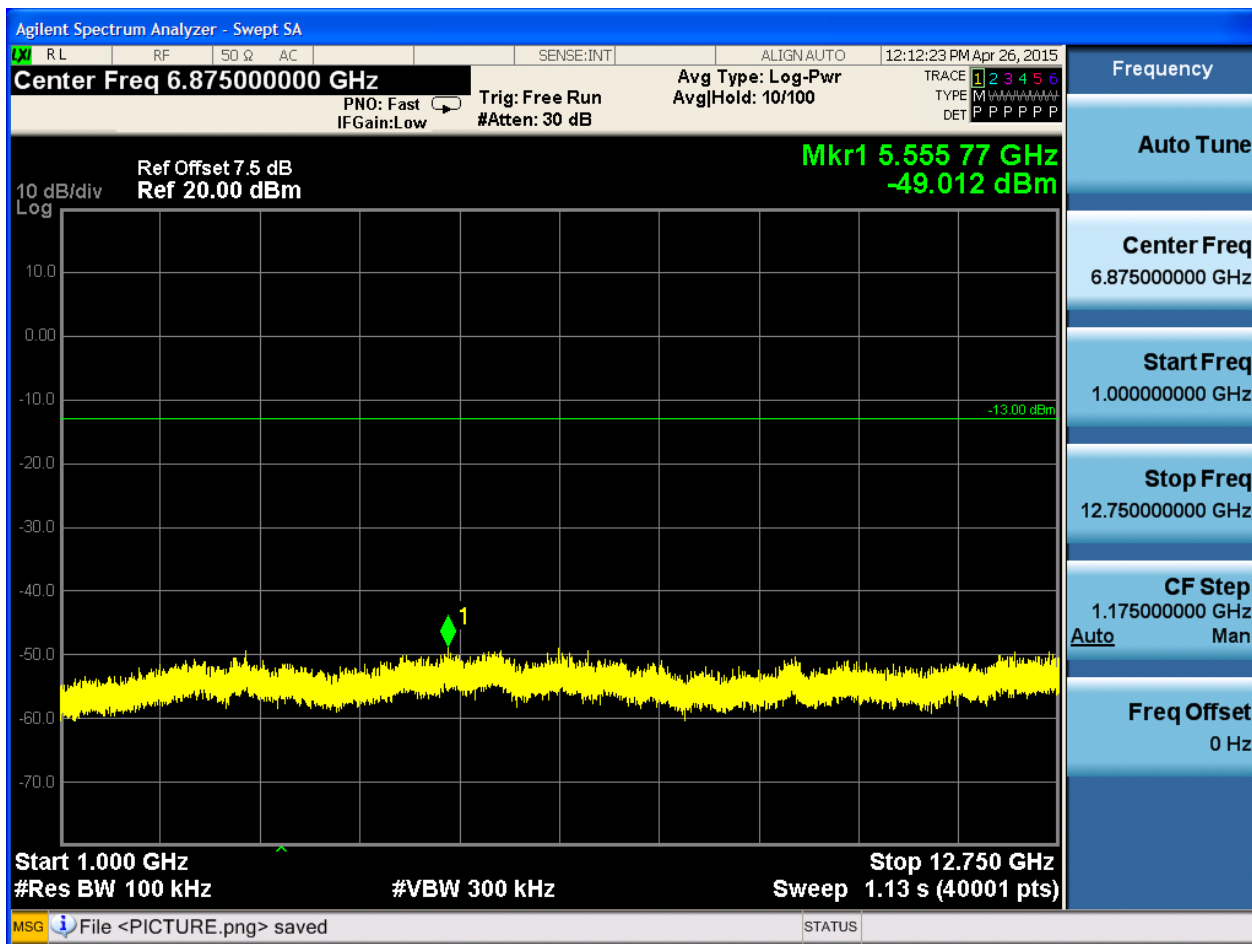


## 6.1.1.2.2 Test Channel = MCH



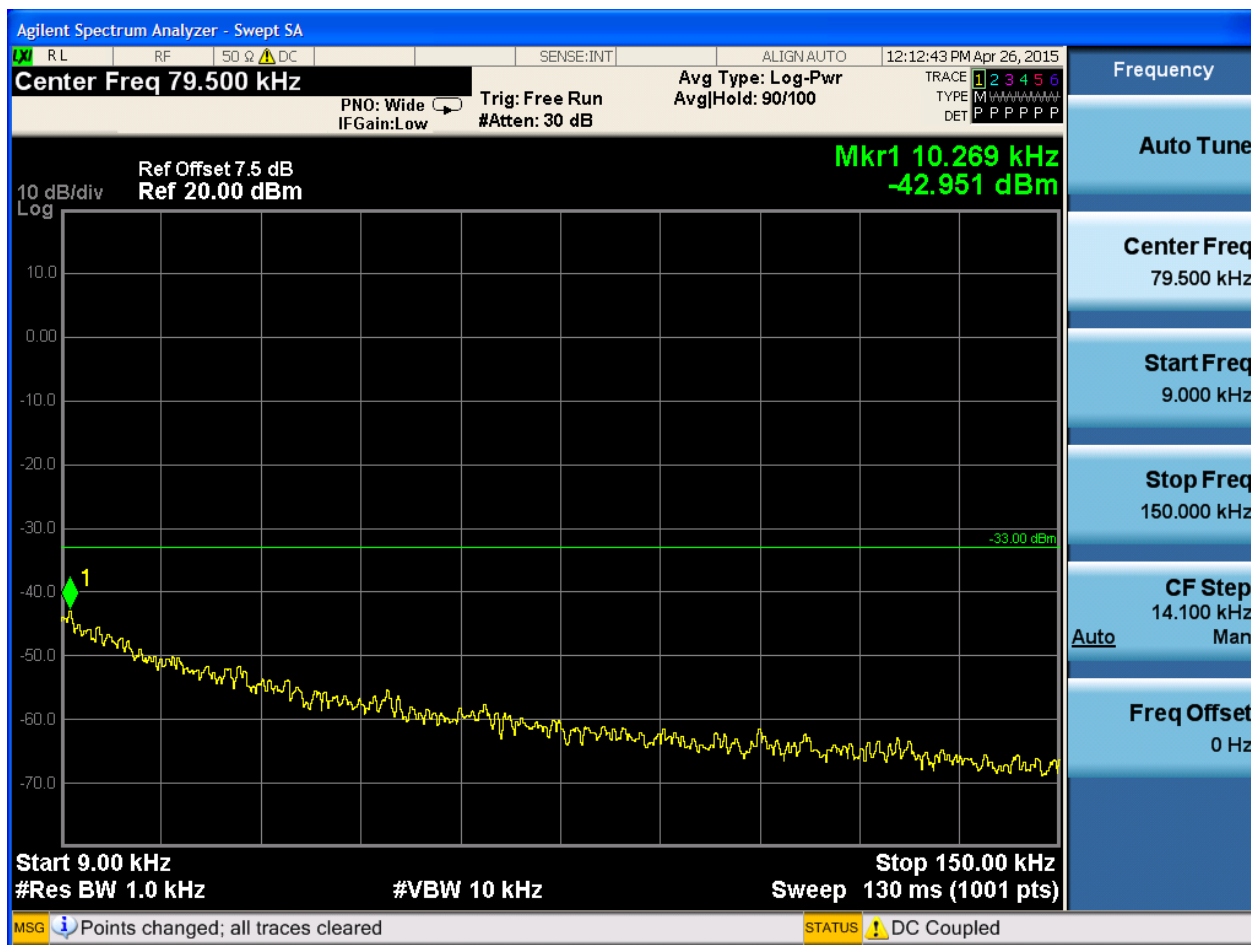


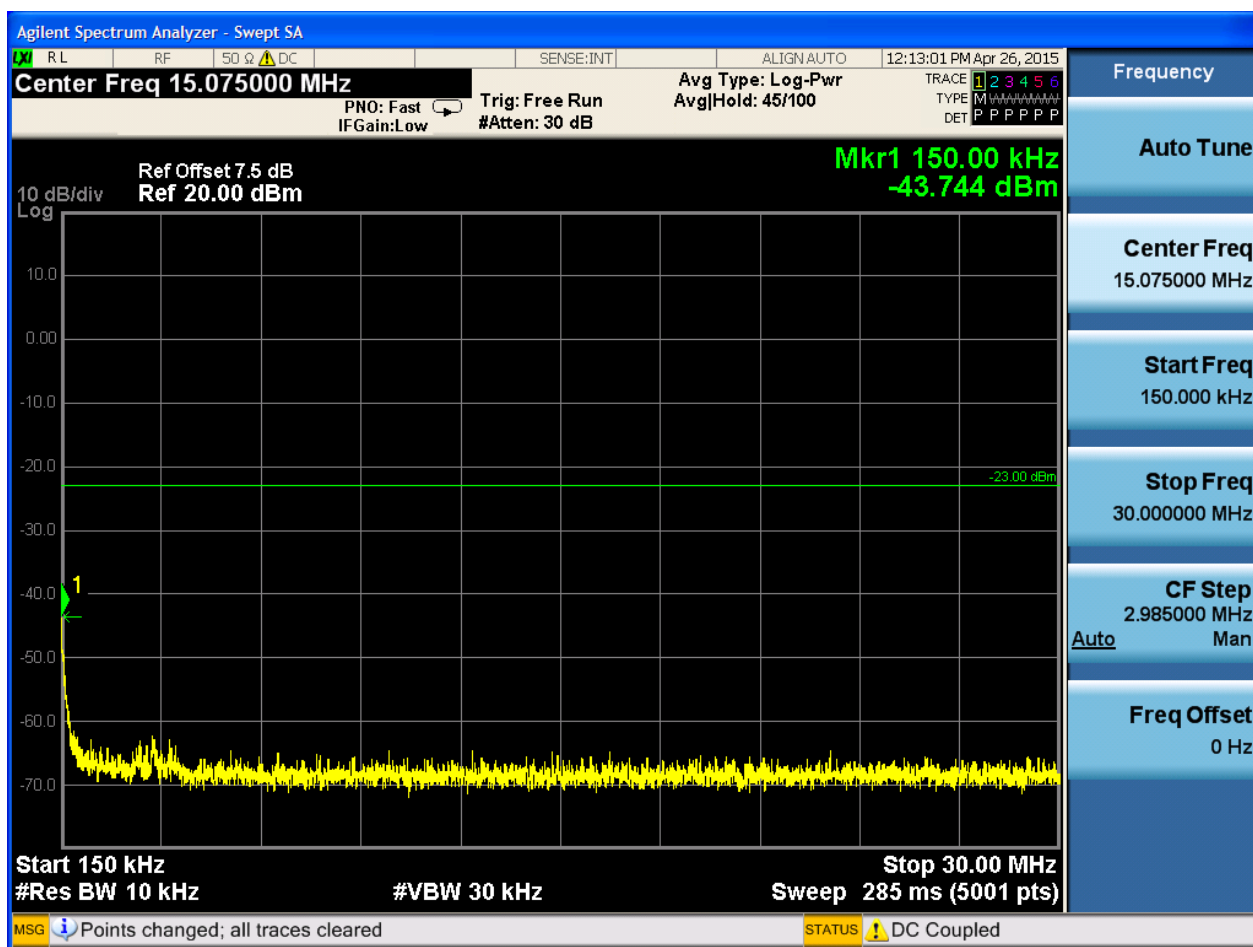


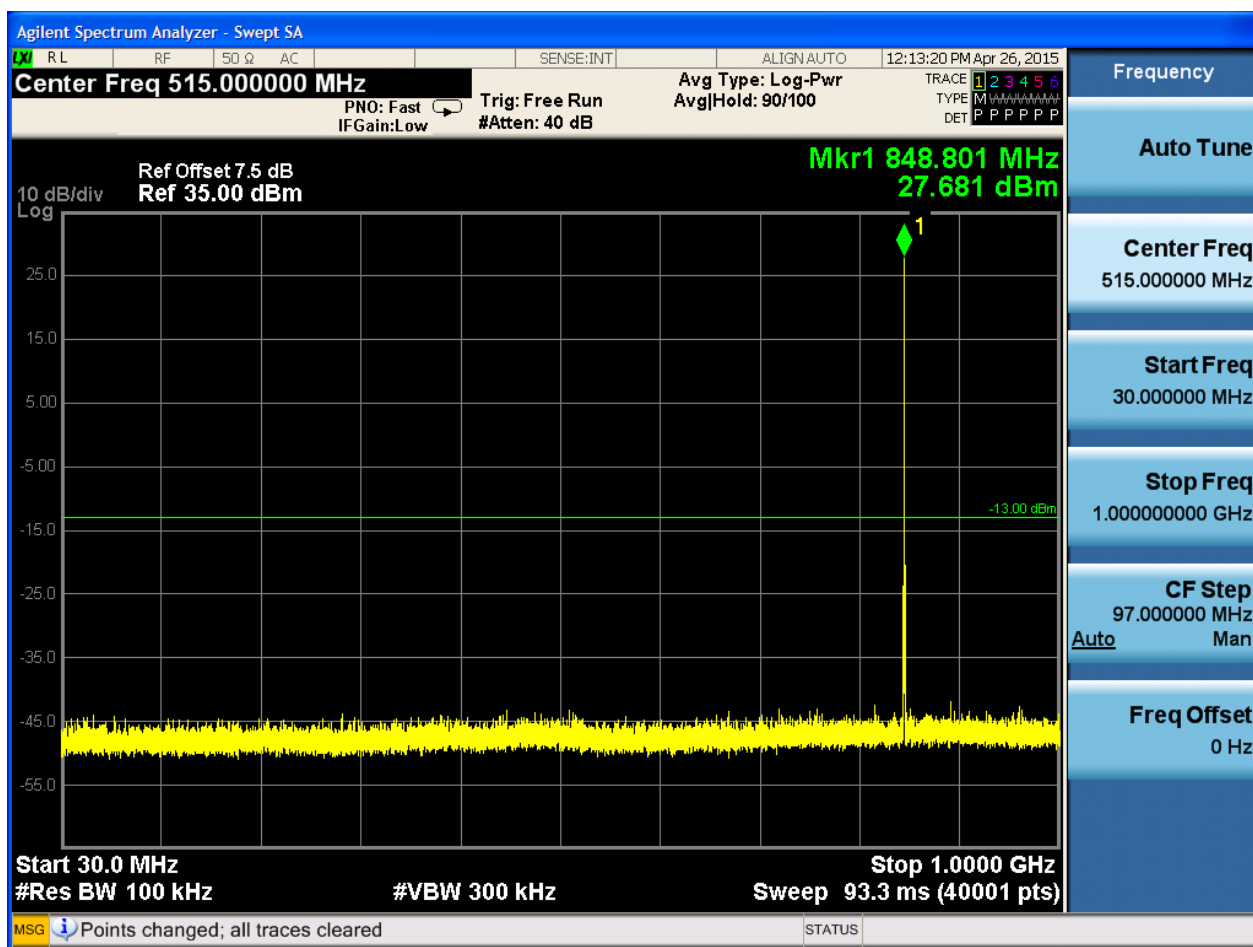


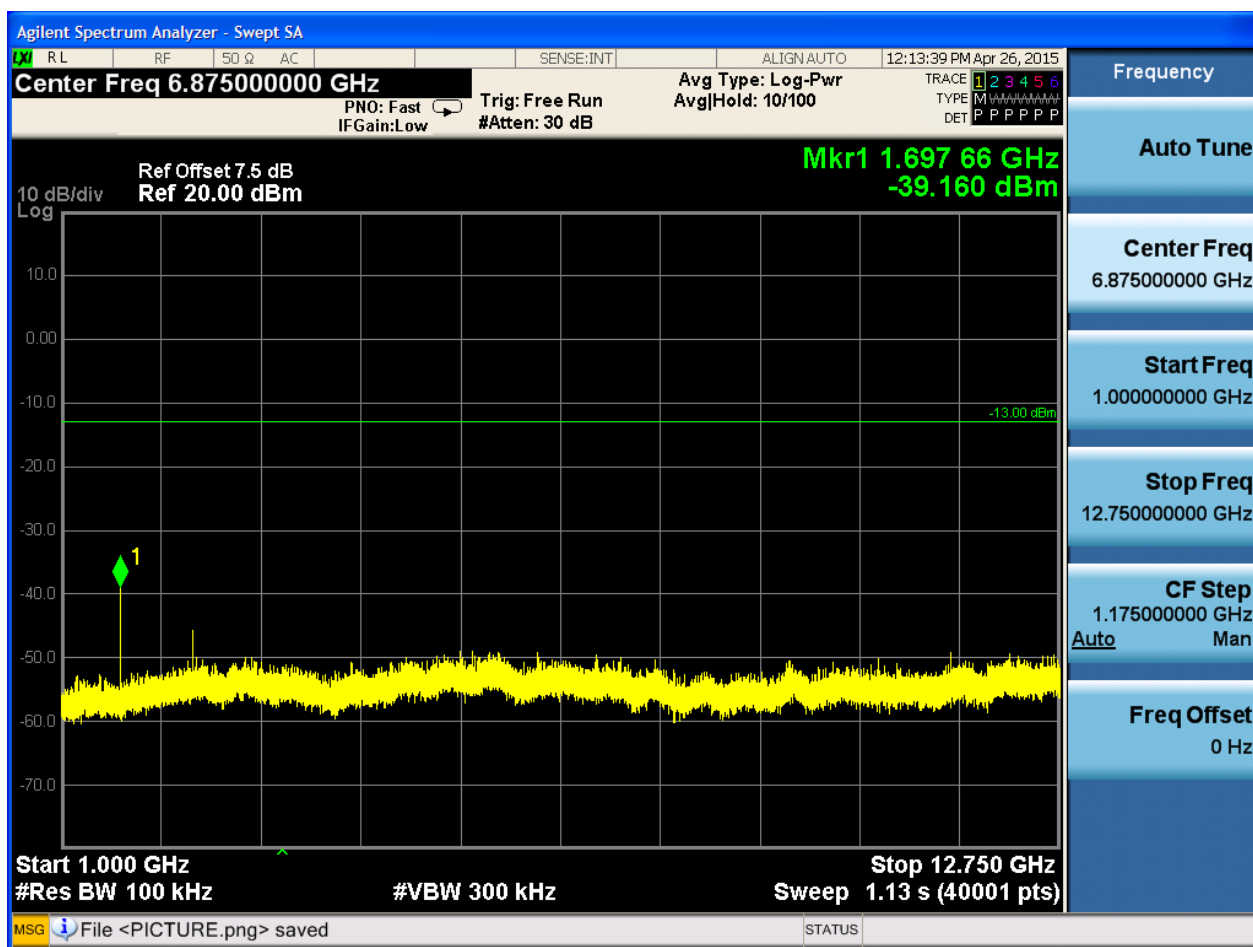


## 6.1.1.2.3 Test Channel = HCH







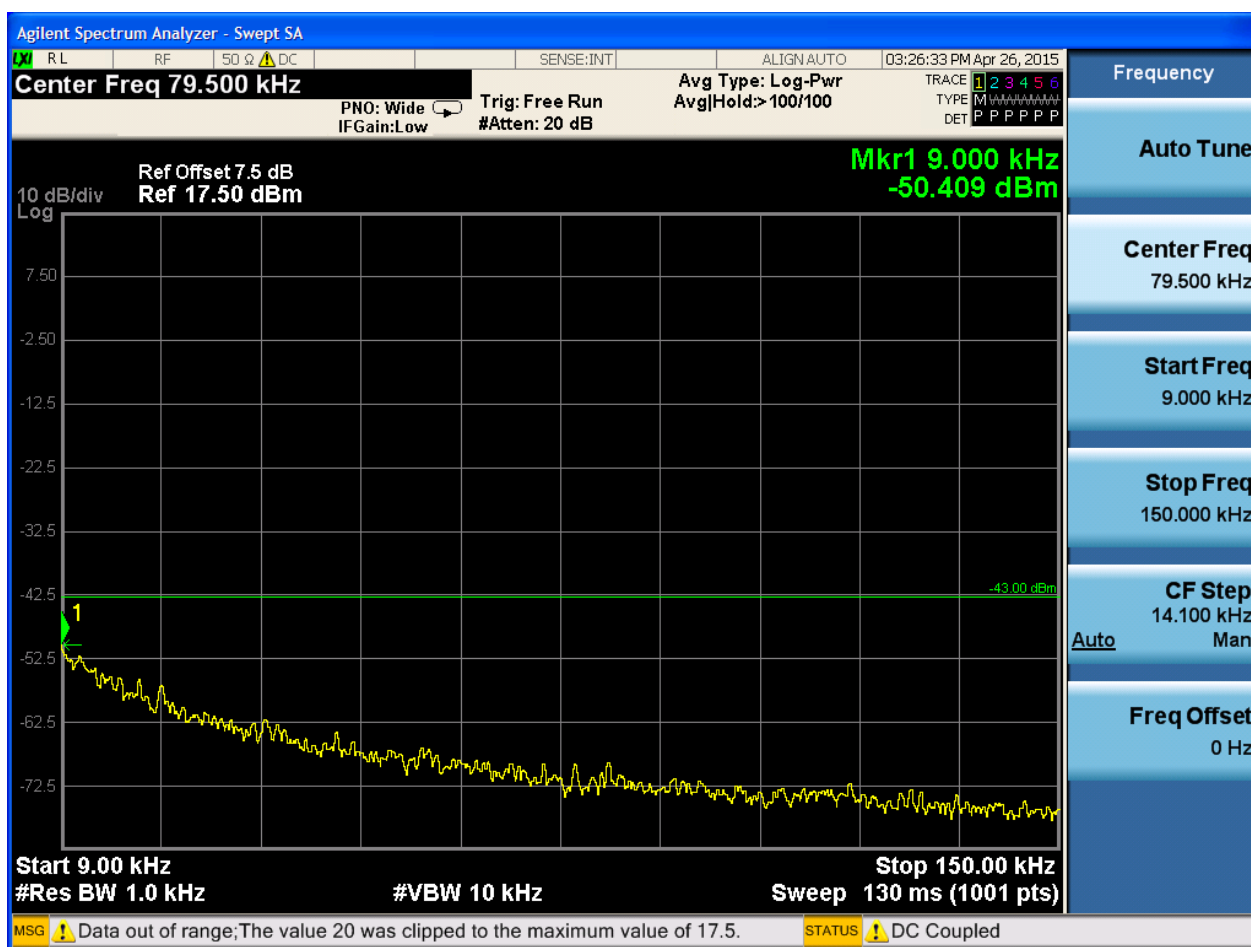


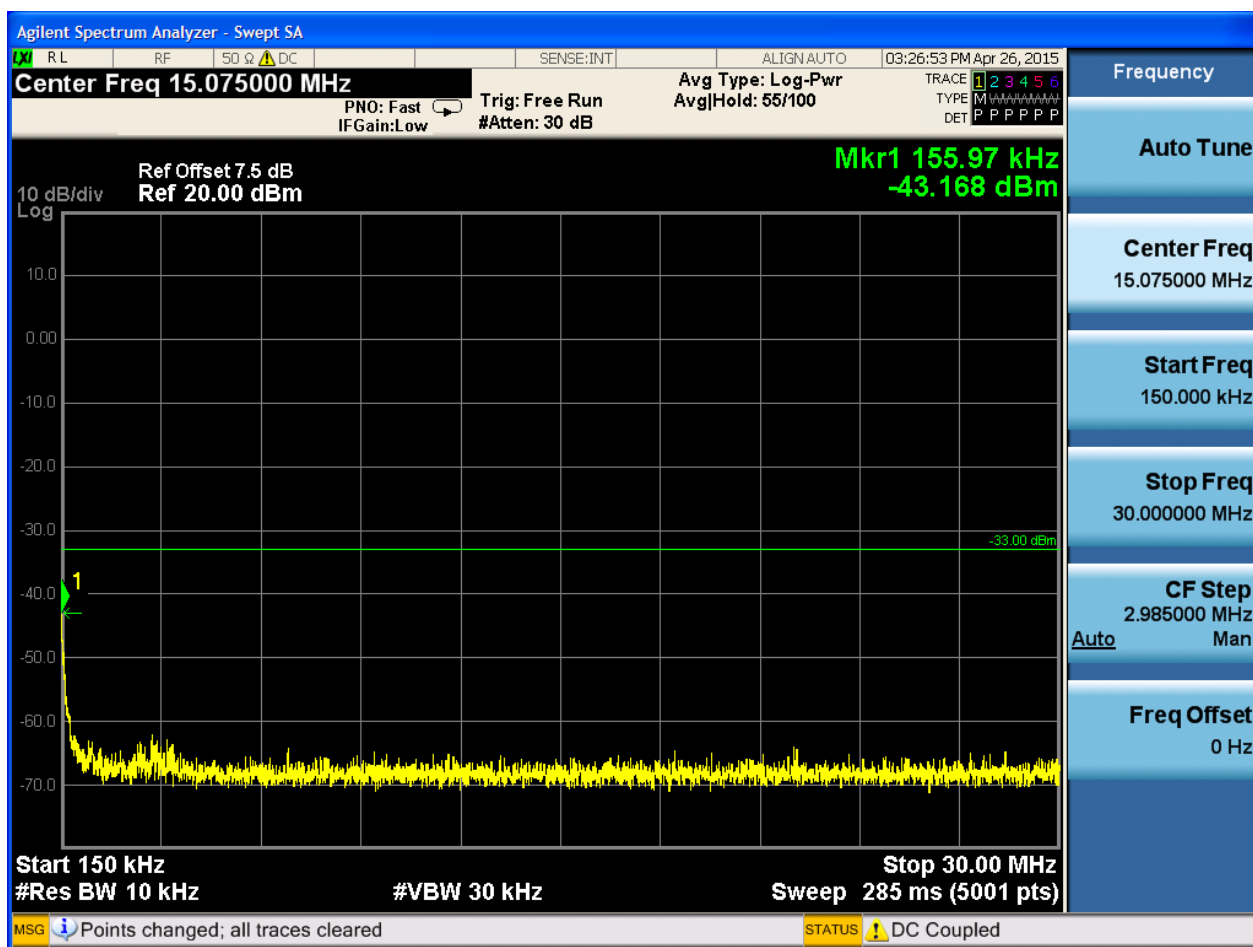


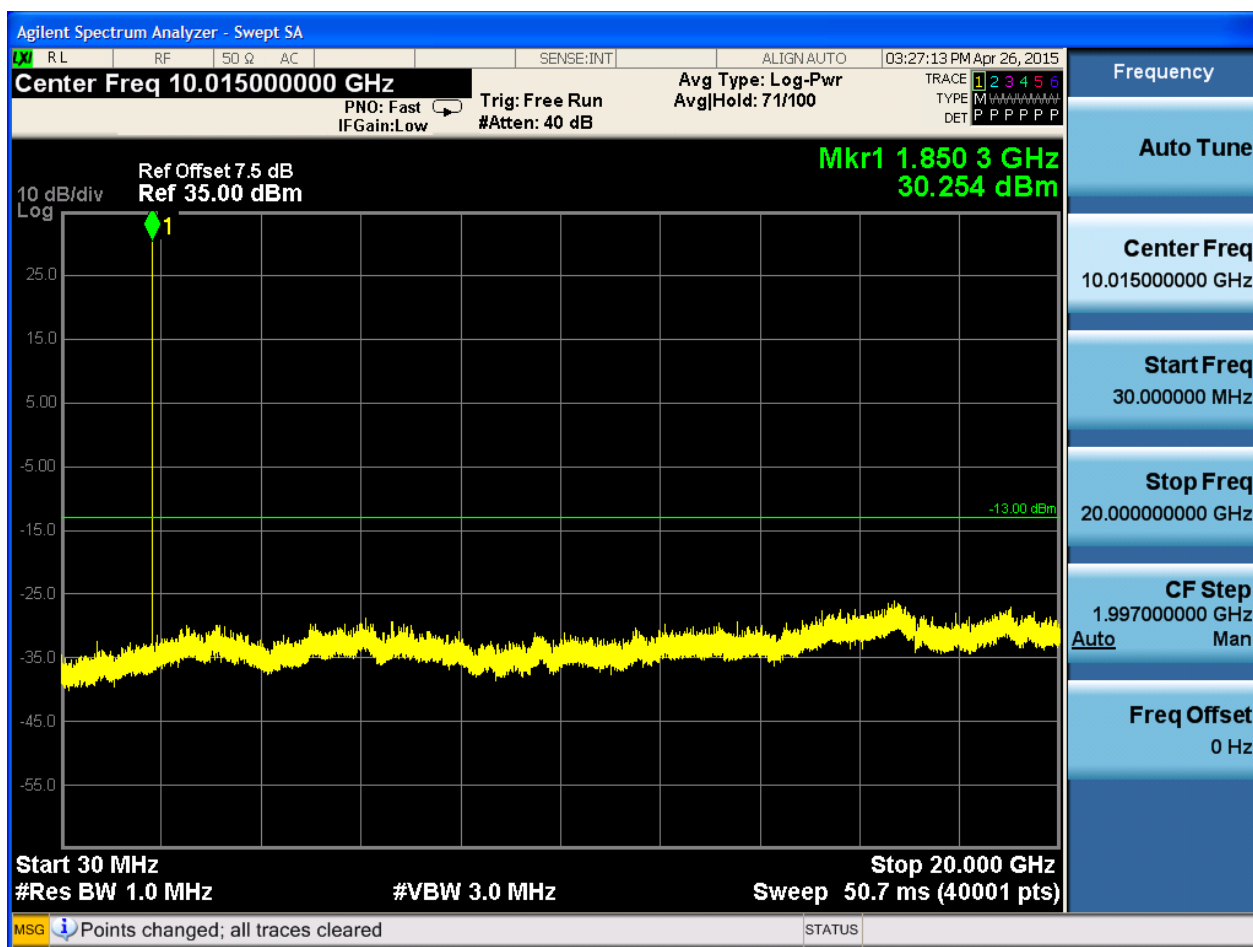
## 6.1.2 Test Band = GSM1900

### 6.1.2.1 Test Mode = GSM/TM1

#### 6.1.2.1.1 Test Channel = LCH

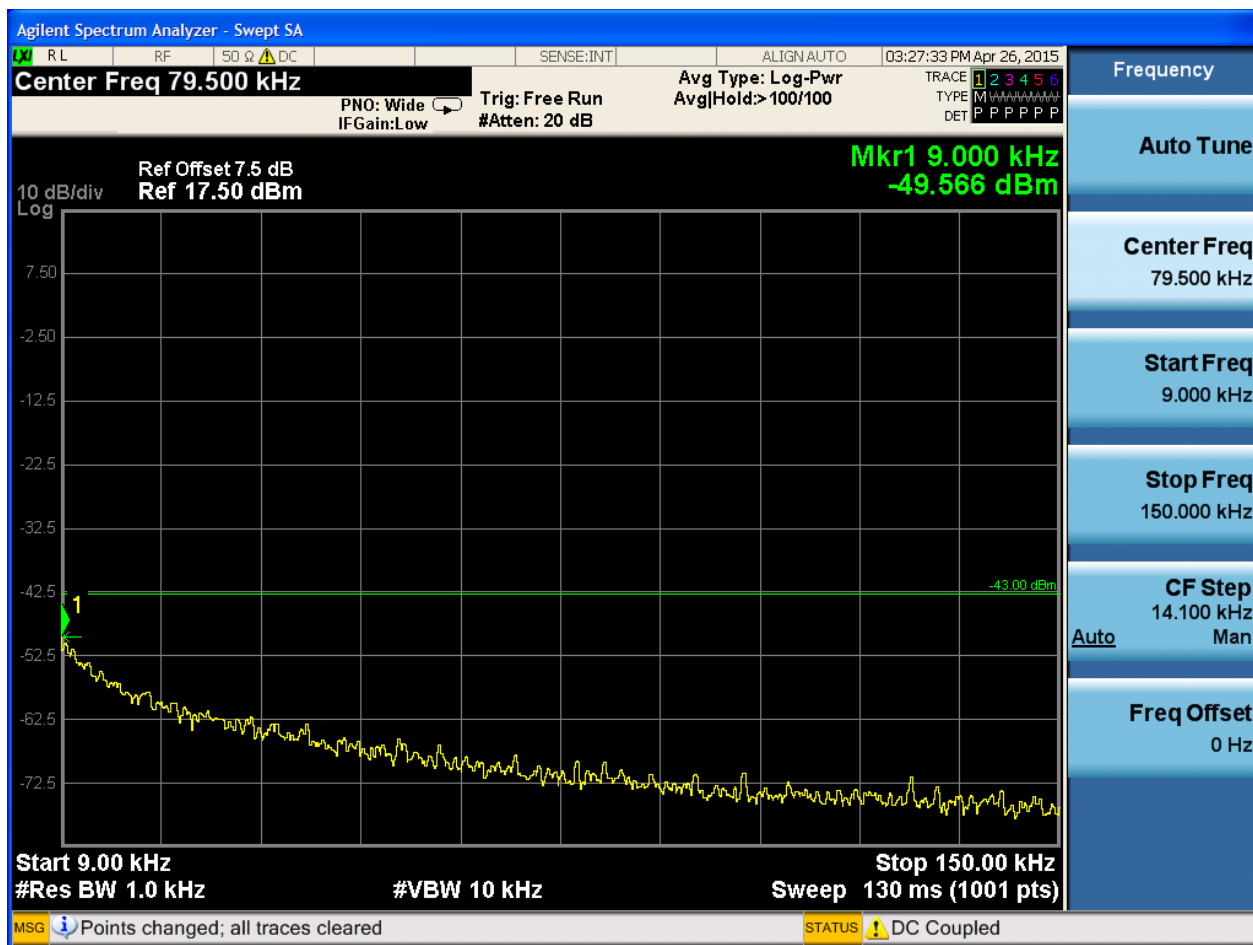


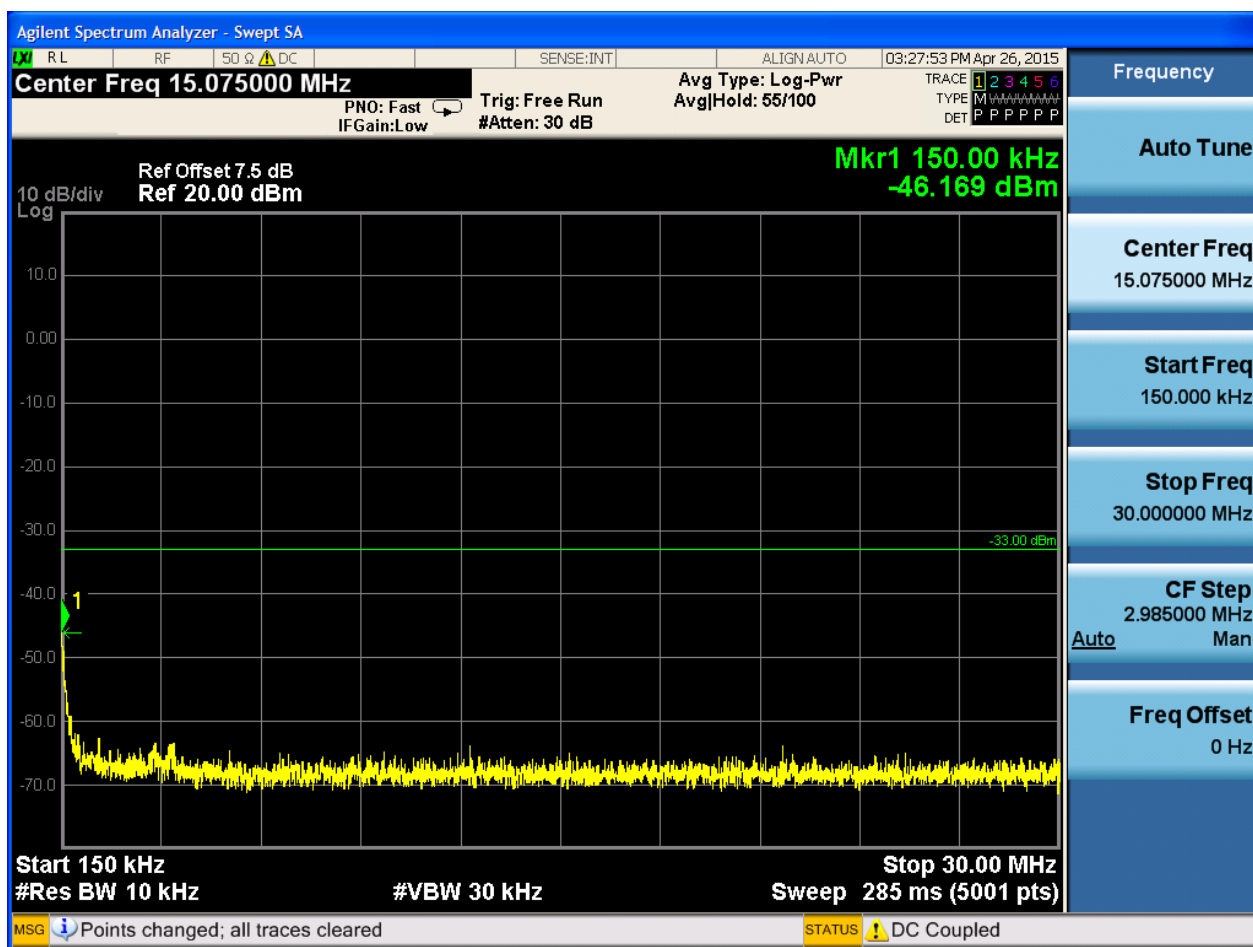


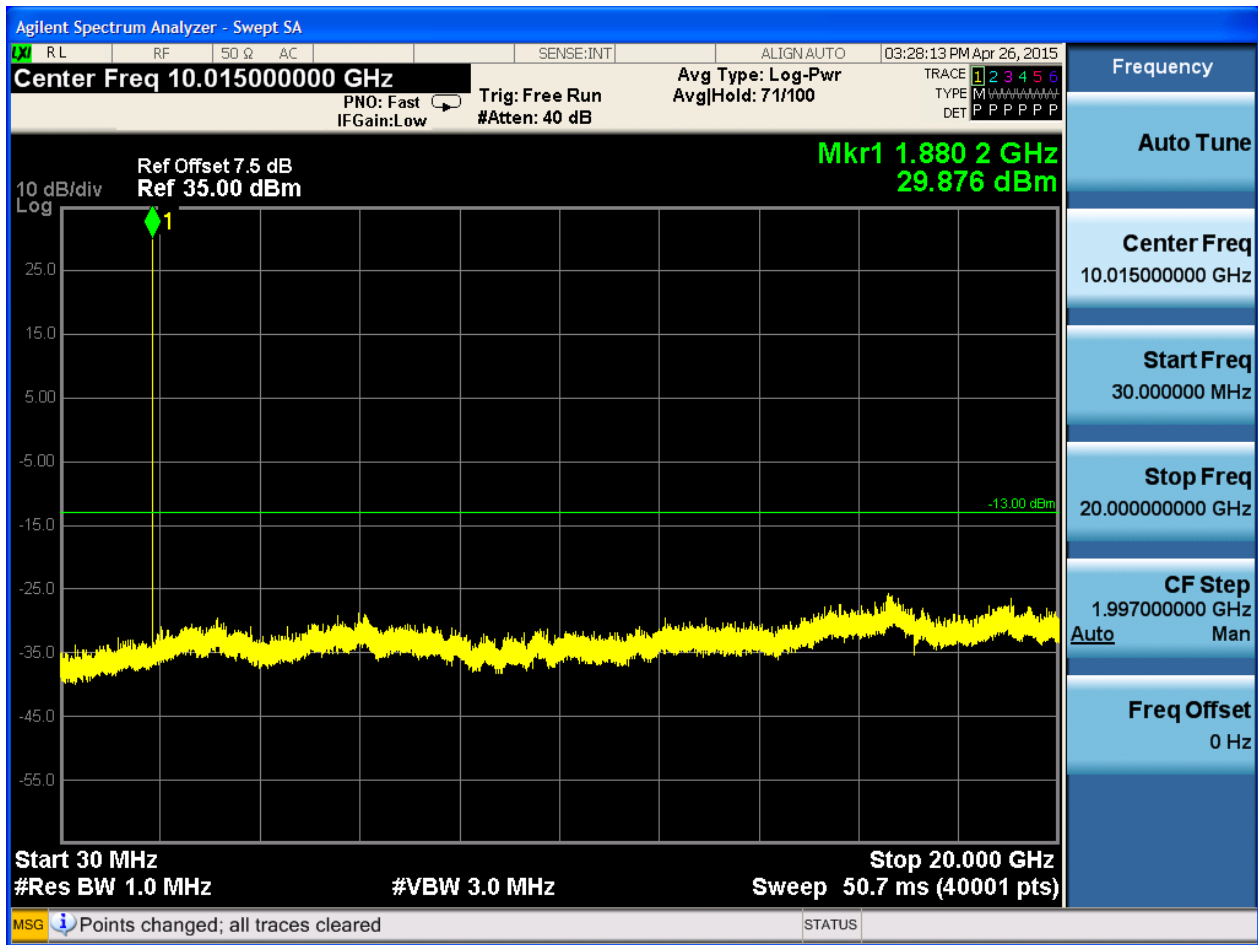




## 6.1.2.1.2 Test Channel = MCH

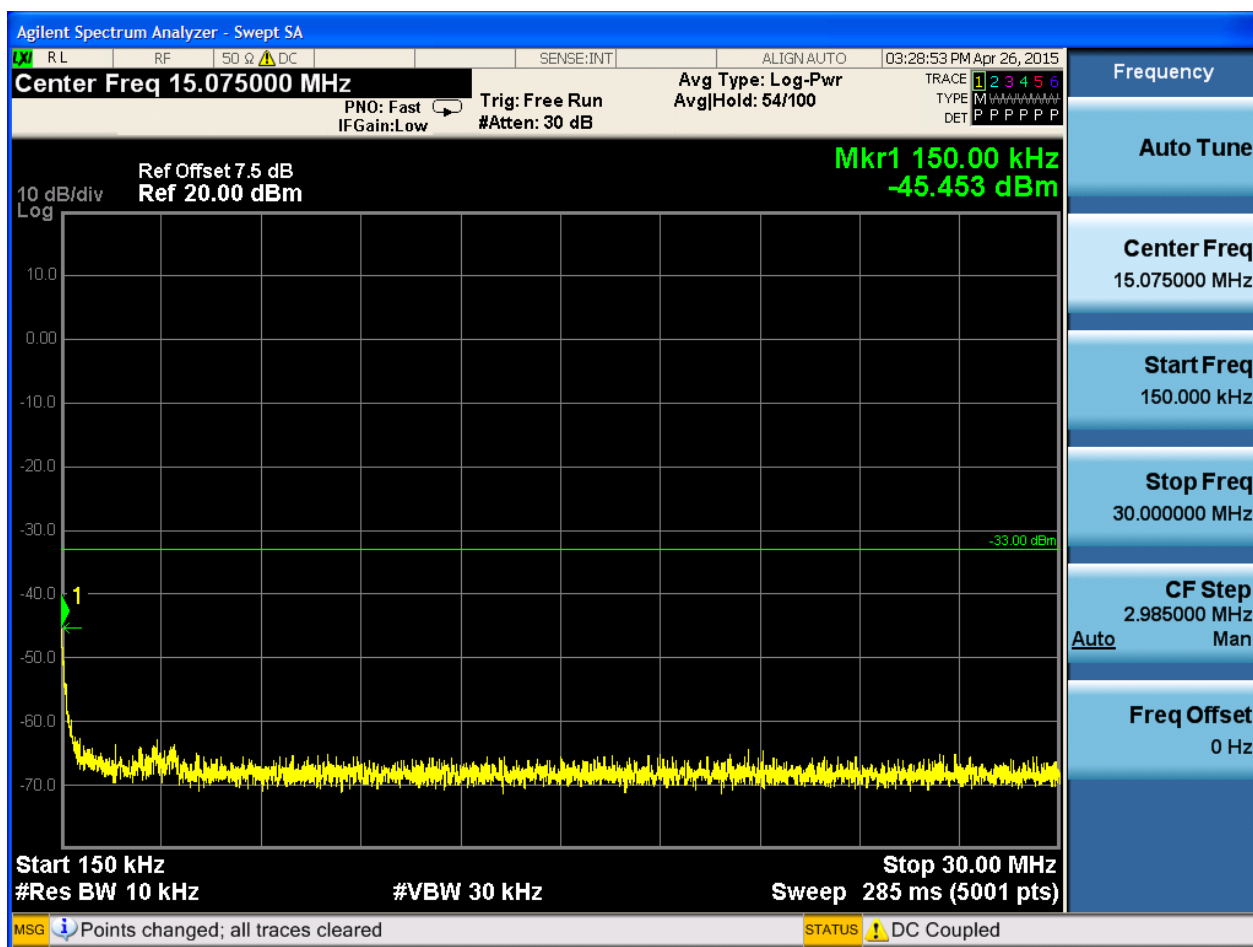


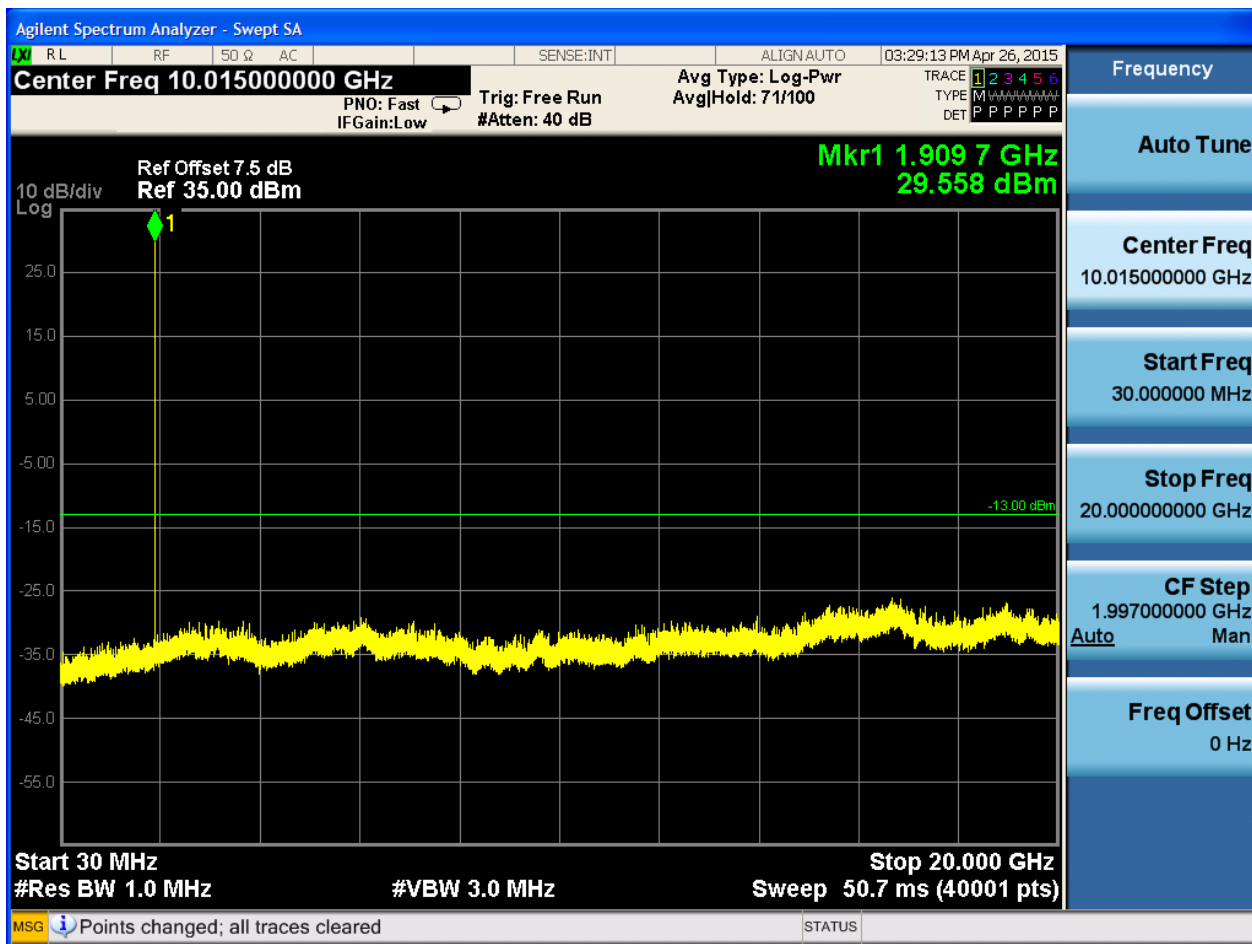




### 6.1.2.1.3 Test Channel = HCH



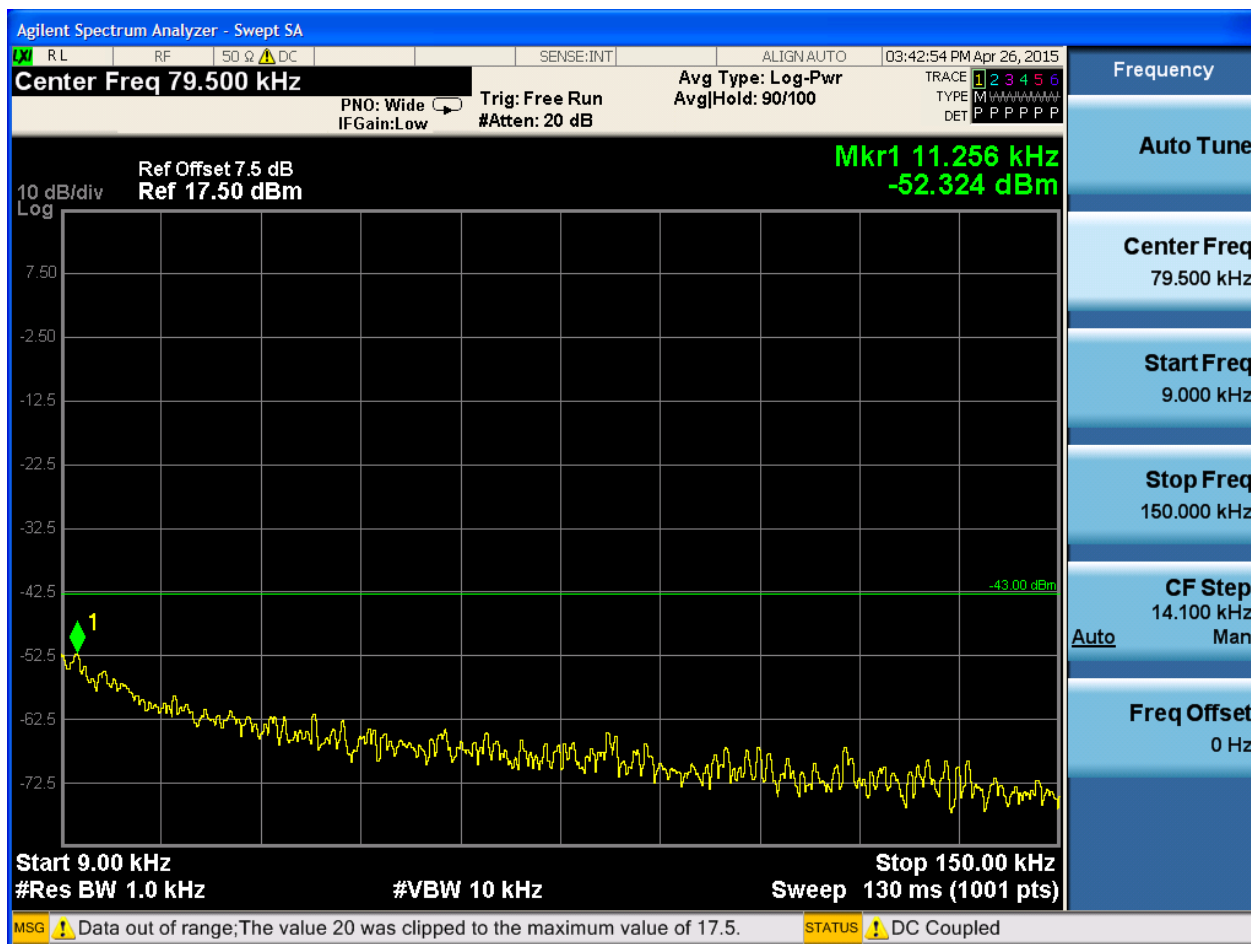


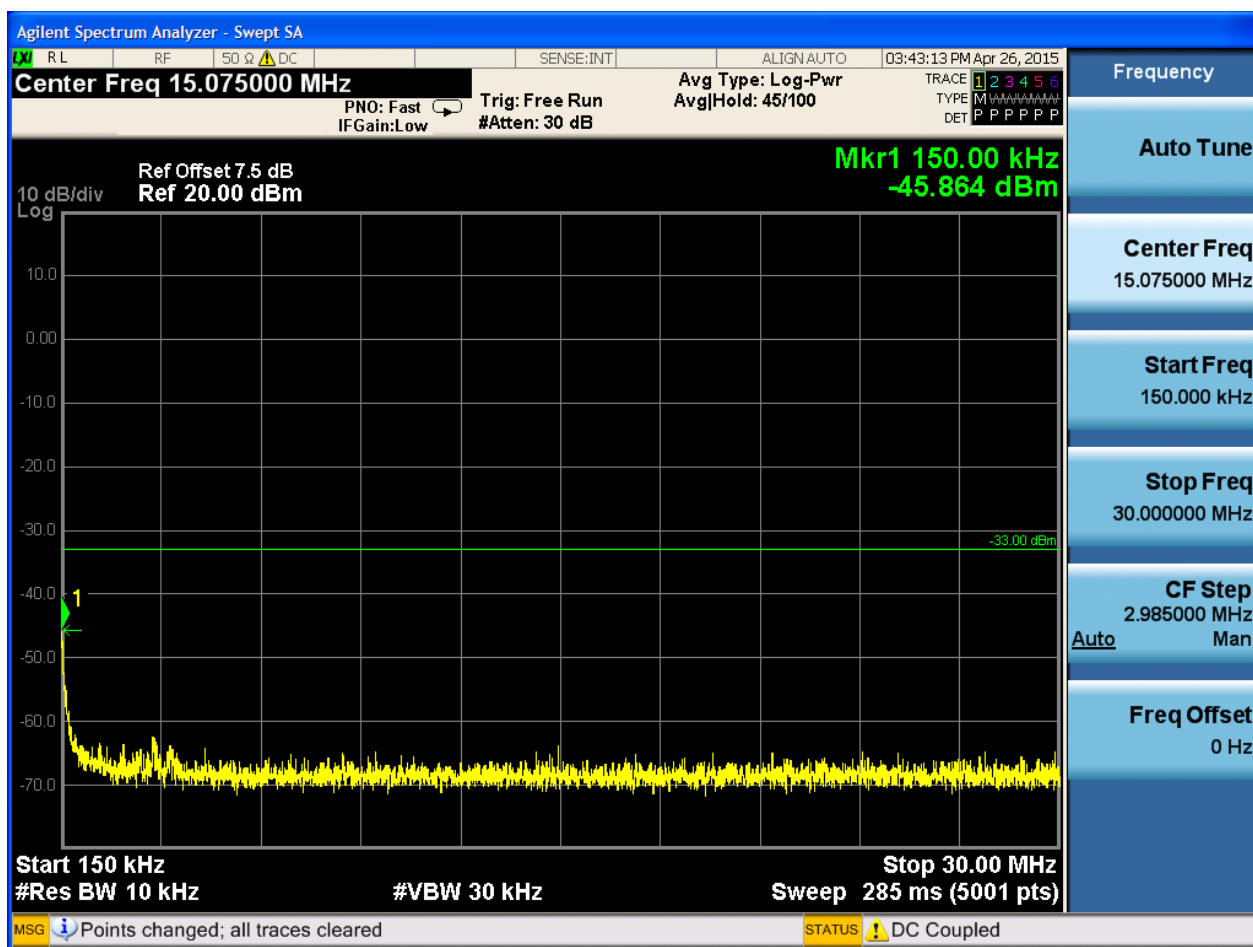


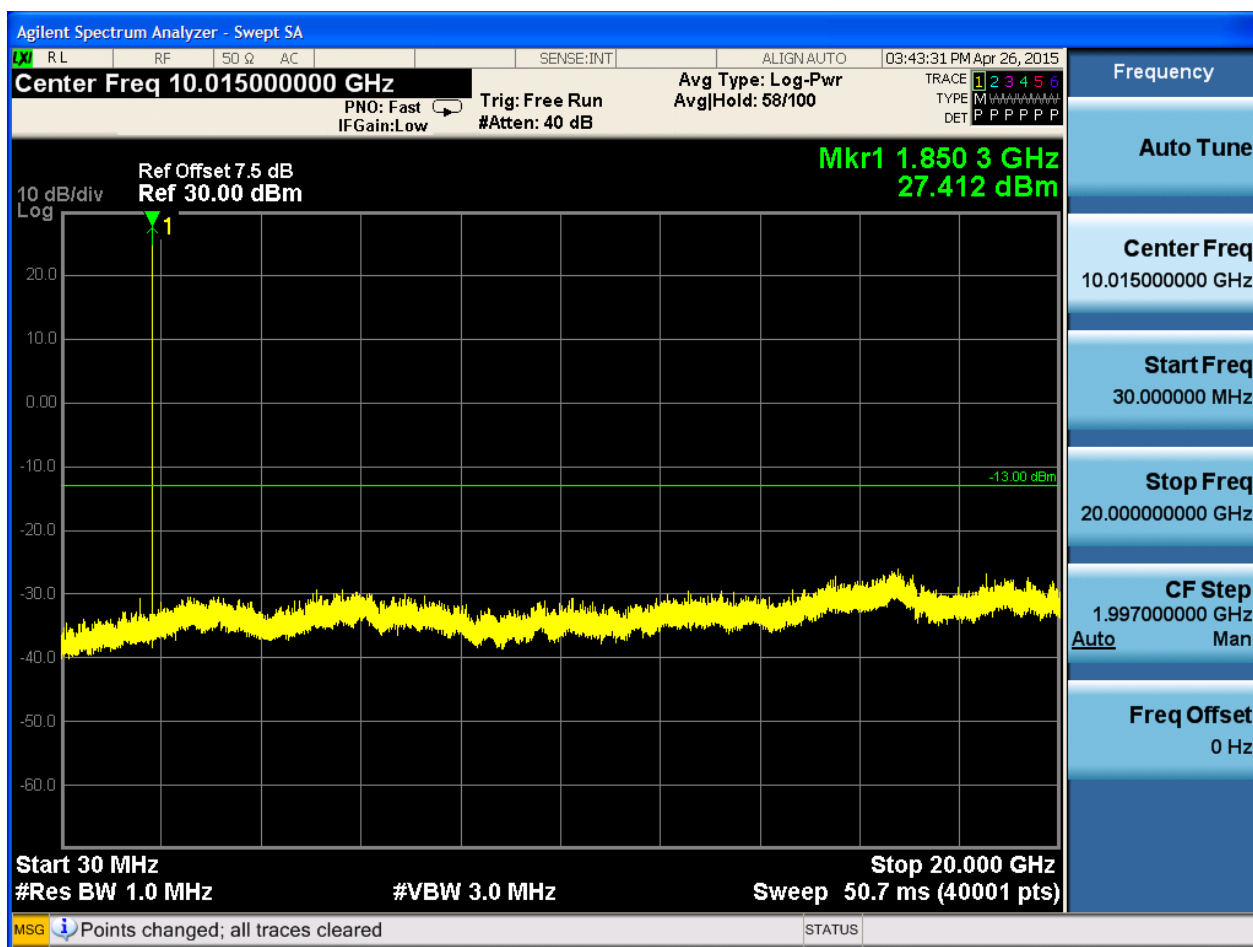


## 6.1.2.2 Test Mode = GSM/TM2

## 6.1.2.2.1 Test Channel = LCH

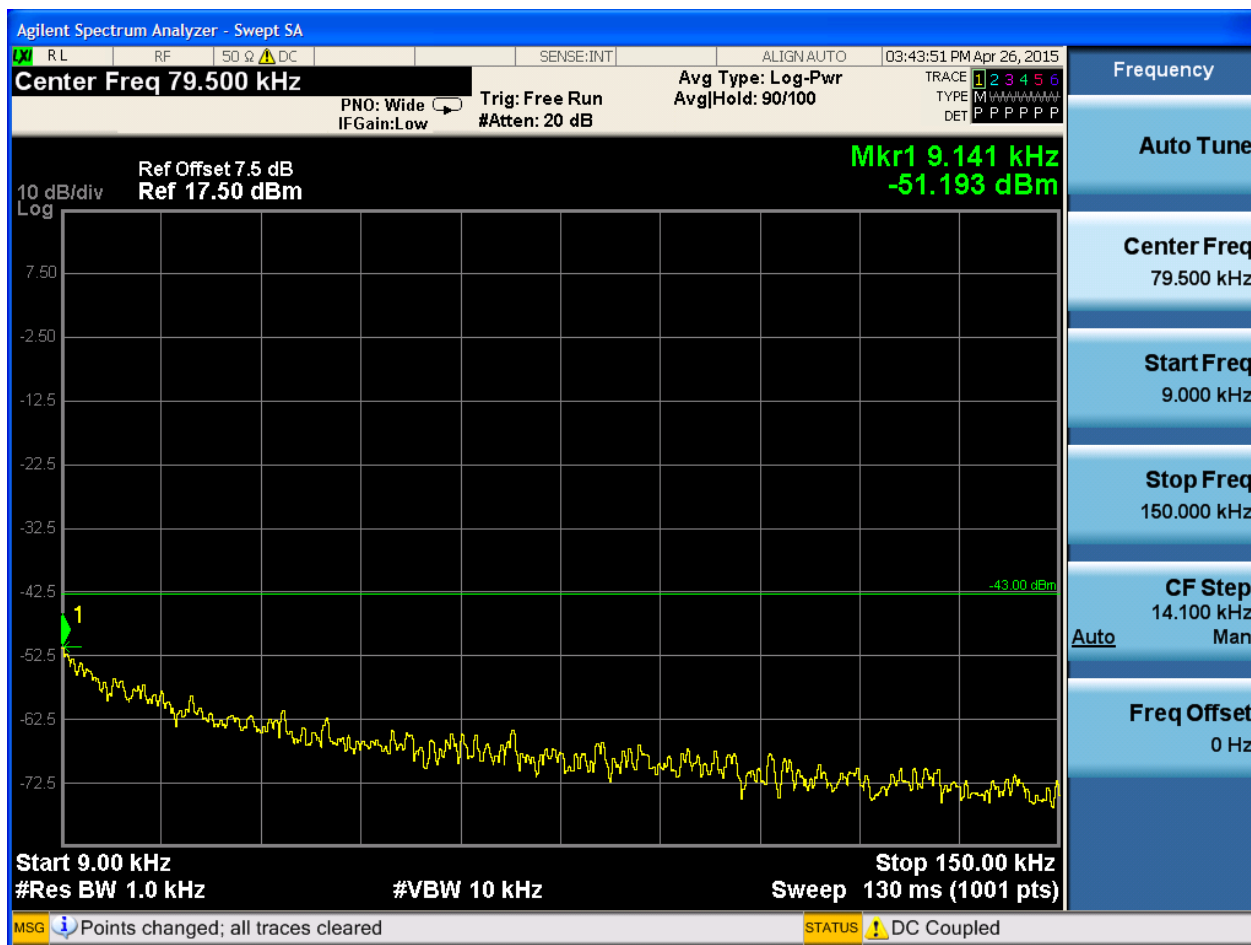


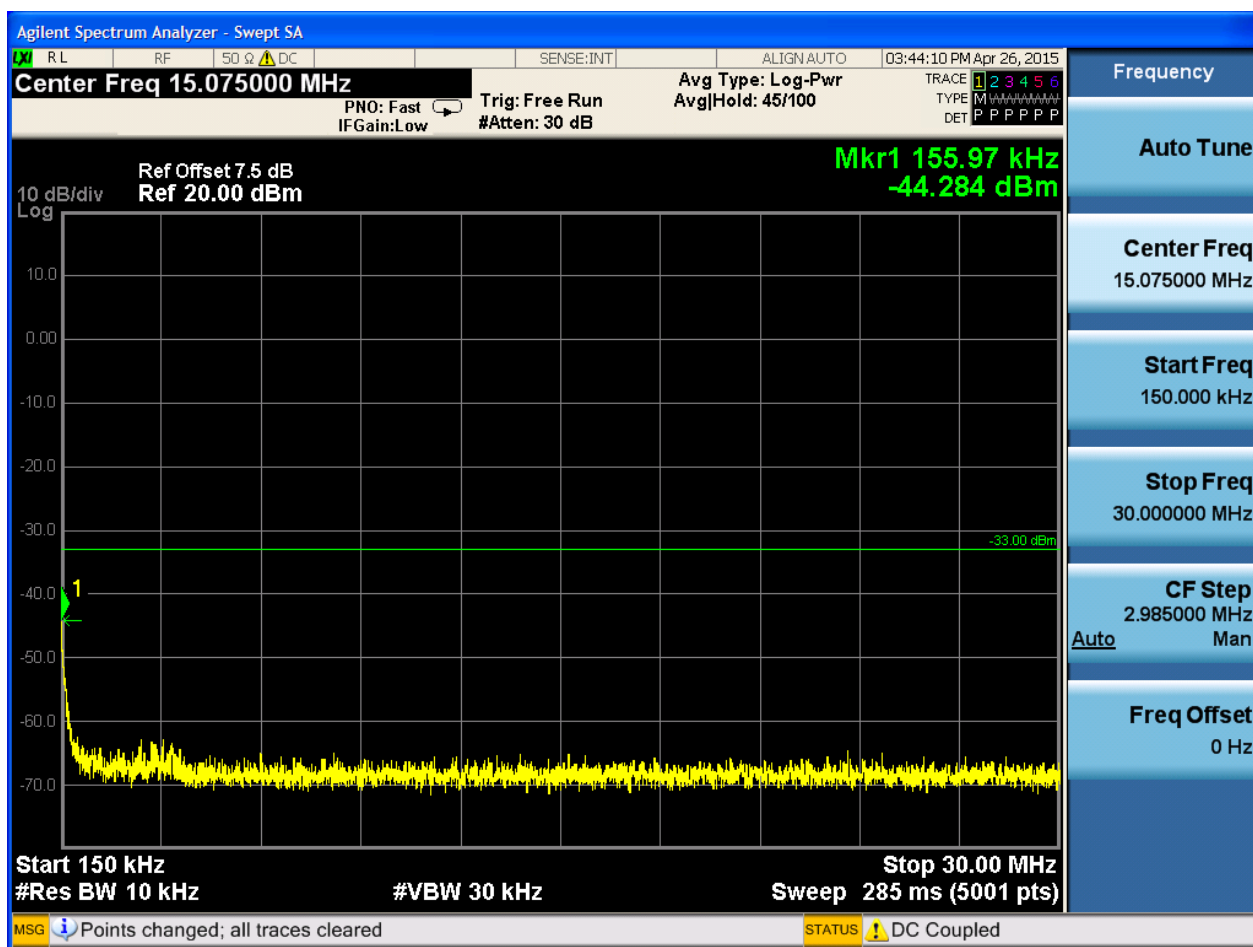


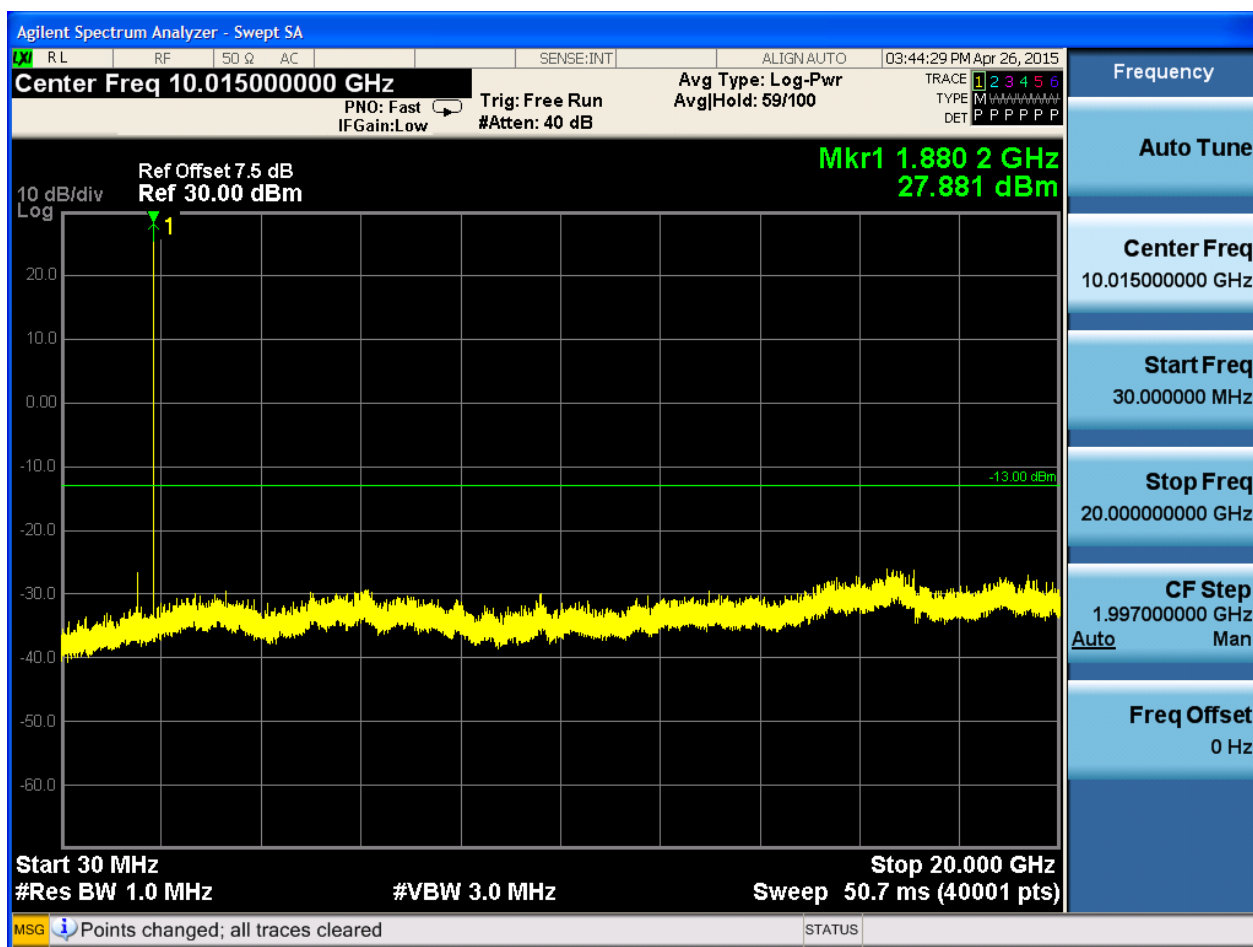




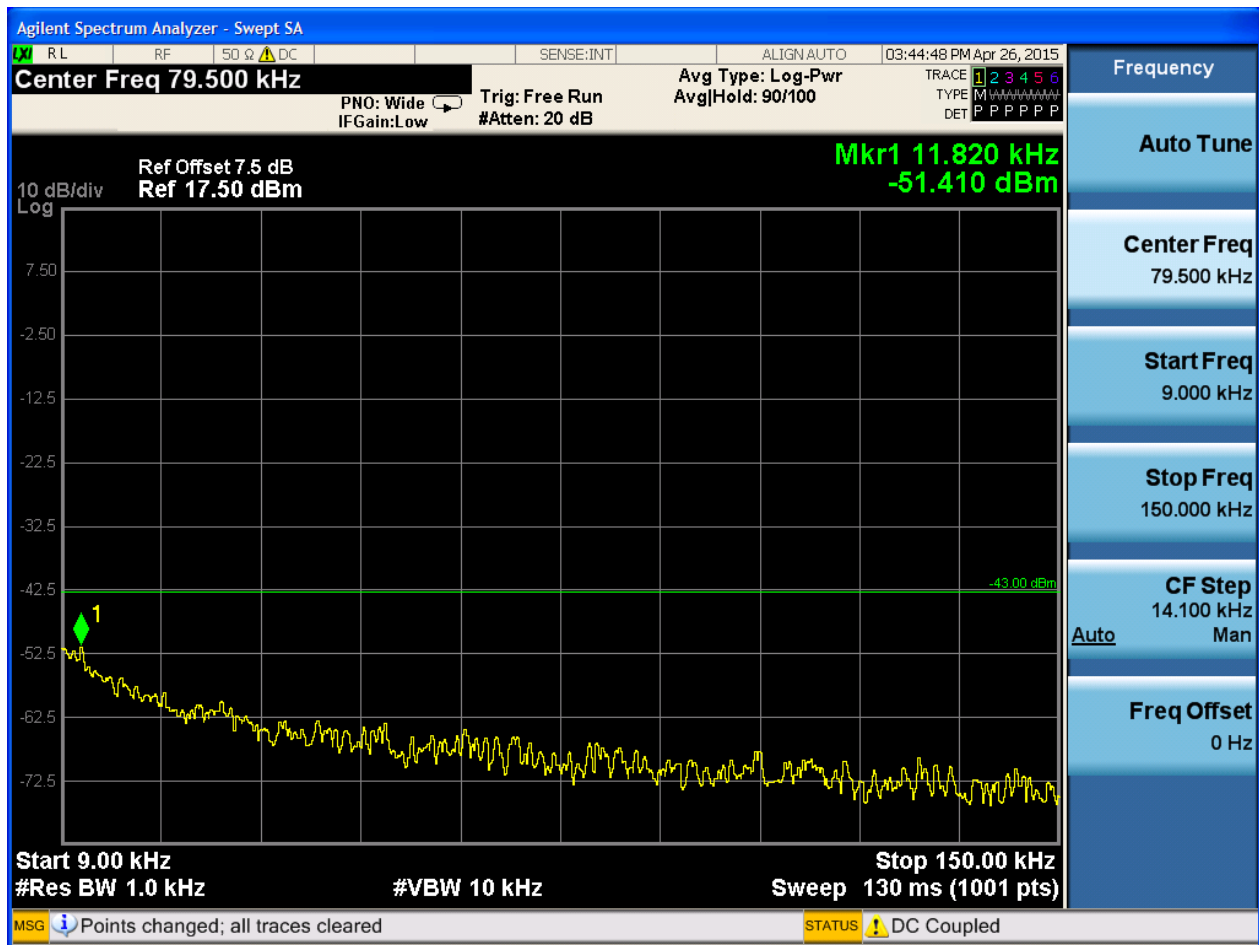
## 6.1.2.2.2 Test Channel = MCH

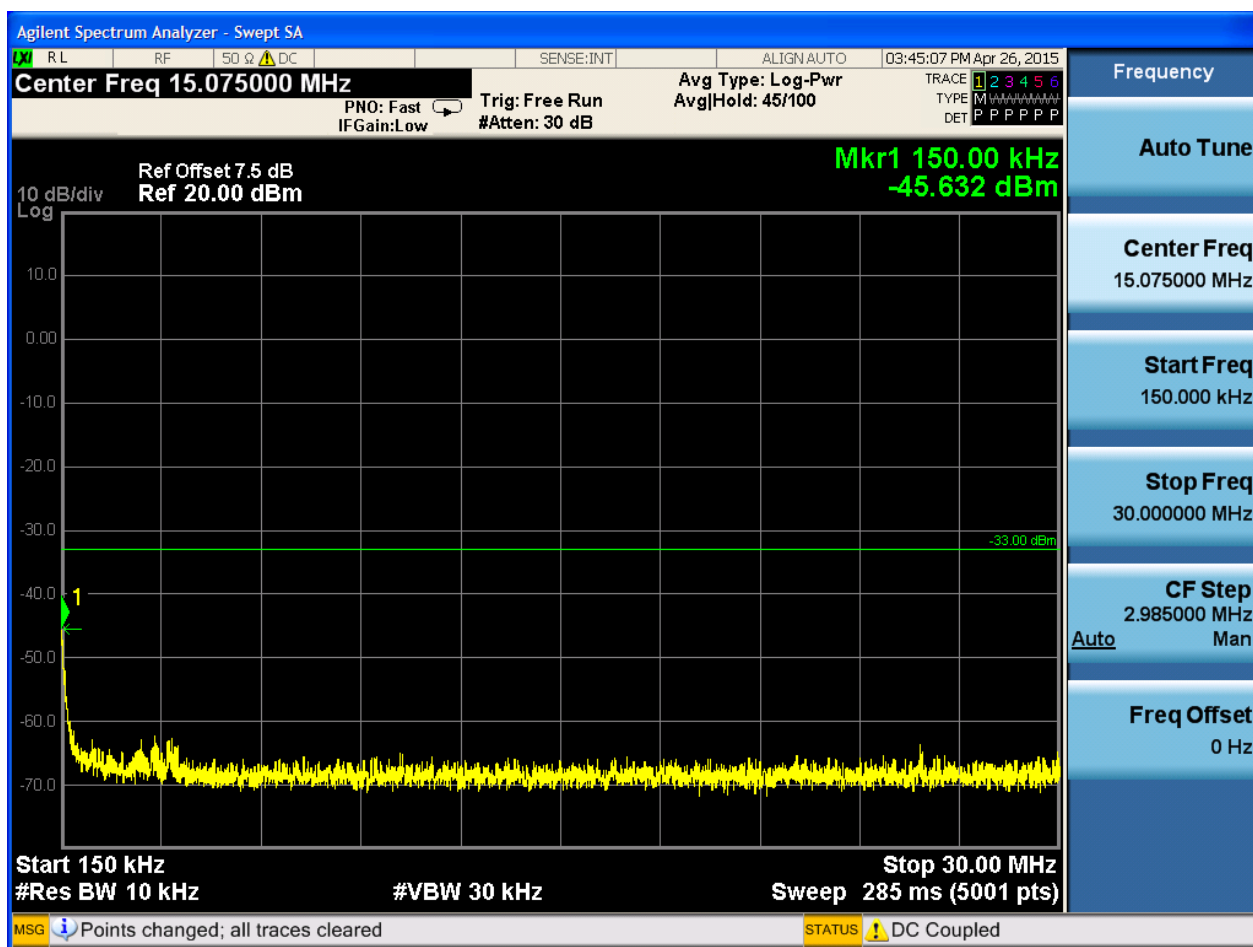


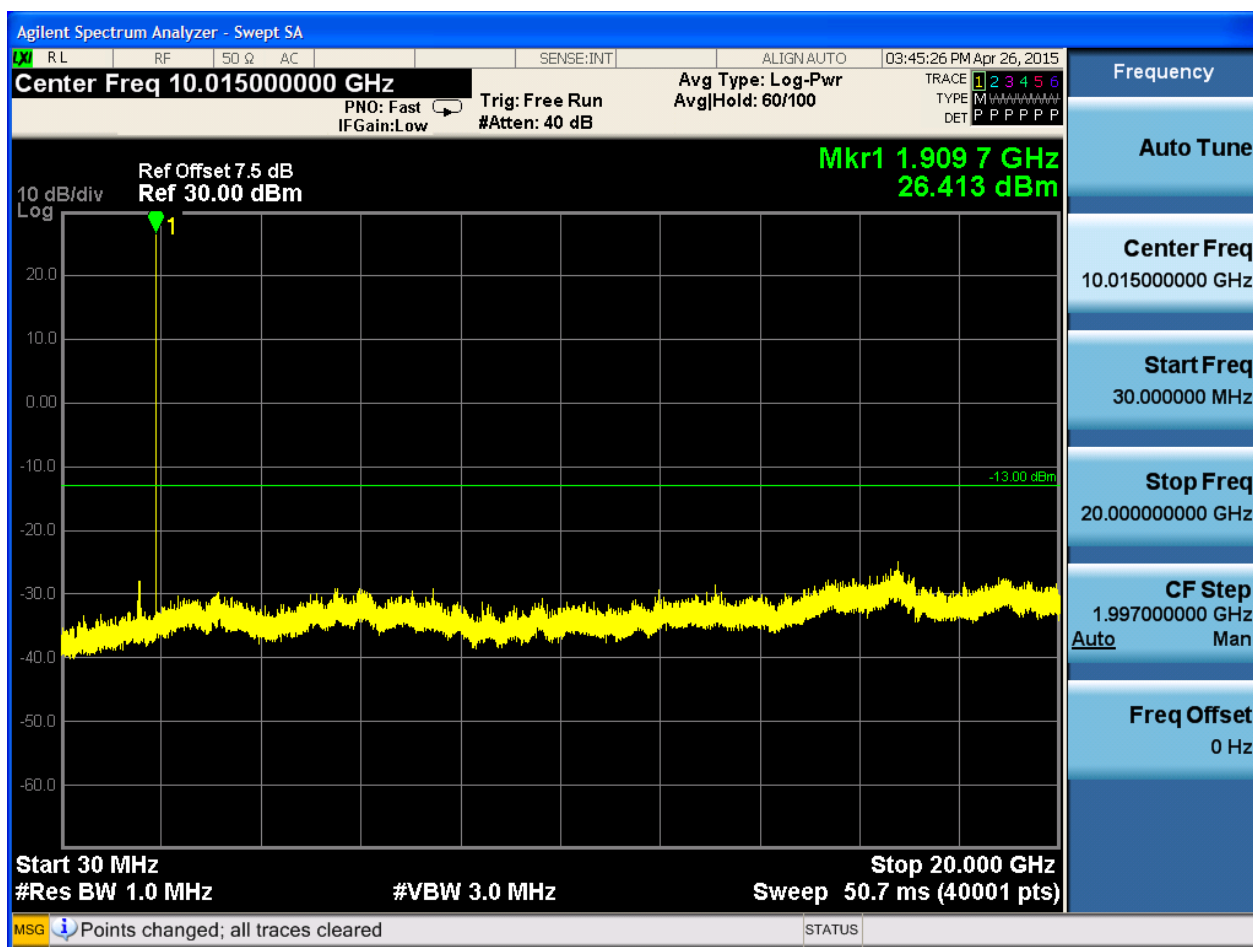




### 6.1.2.2.3 Test Channel = HCH







## 7Appendix\_G: Field Strength of Spurious Radiation

Note:

9kHz~150kHz, VBW = 200Hz, VBW = 600 Hz, Detector: PK

150kHz~30MHz, VBW = 9kHz, VBW = 30k Hz, Detector: PK

30MHz~1GHz, RBW = 100 kHz, VBW = 300 kHz. Detector: PK

Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

NOTE1: No peak found in the Test Range of “9 kHz to 30MHz”

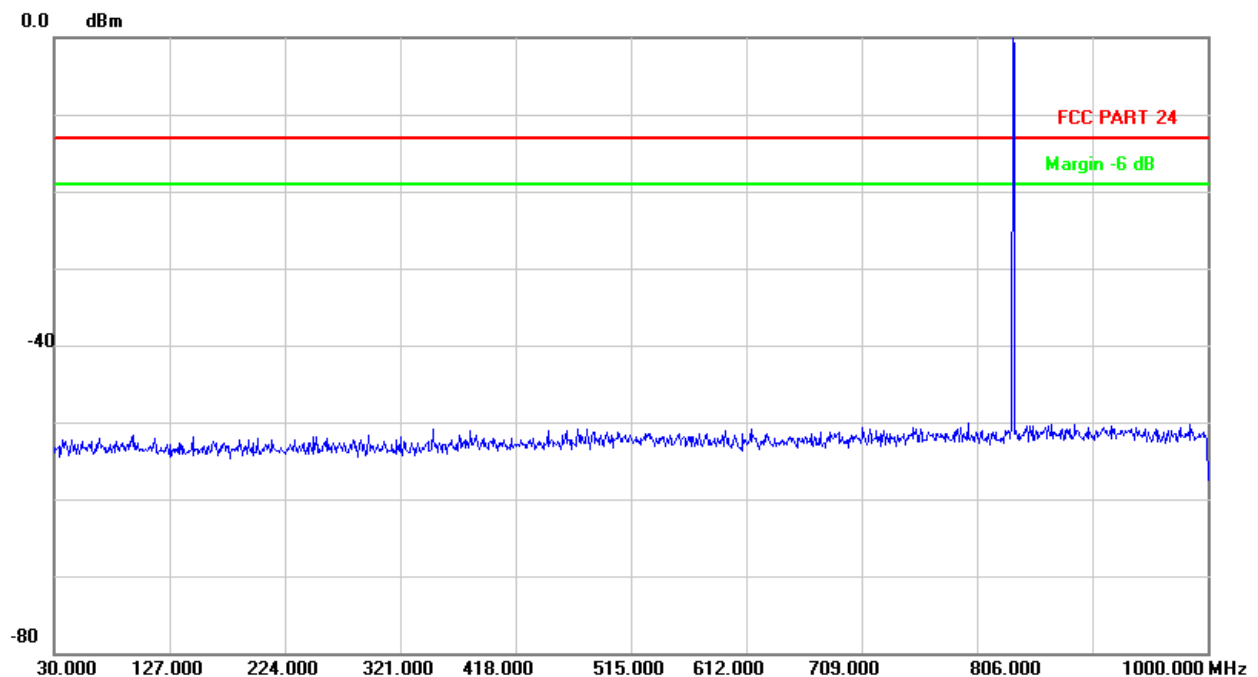
NOTE2: We tested all modes, but the data presented below is the worst case.

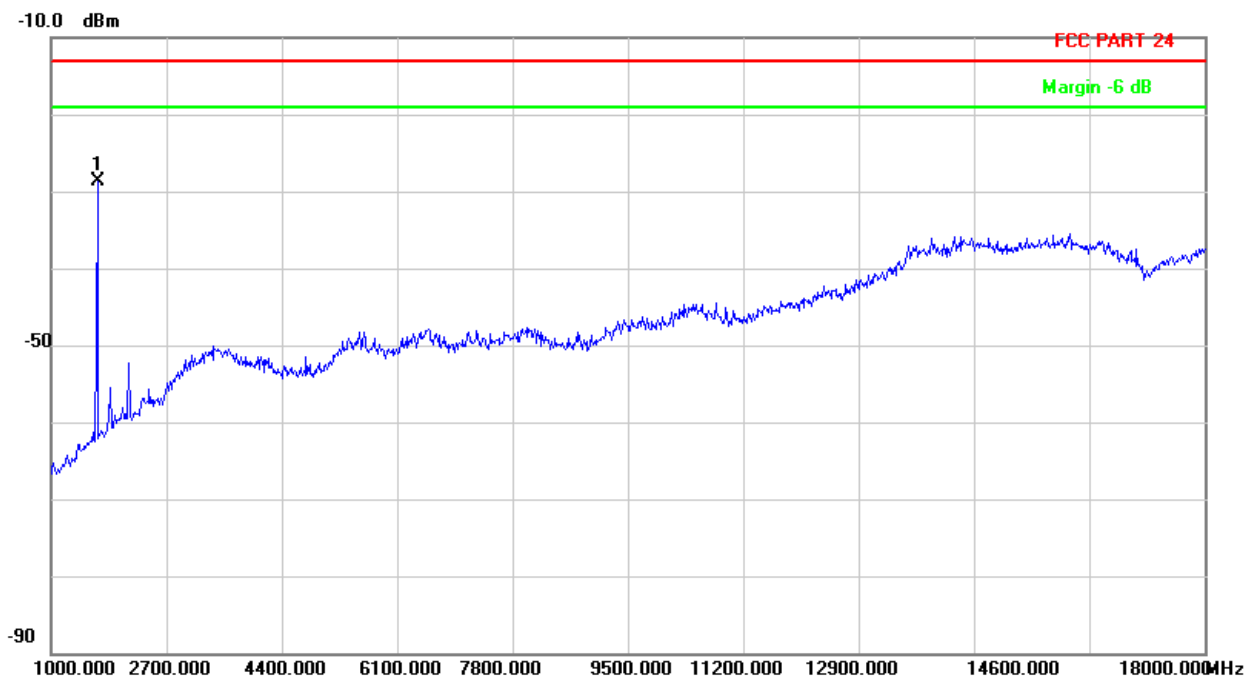
### Part I - Test Plots

#### 7.1 For GSM

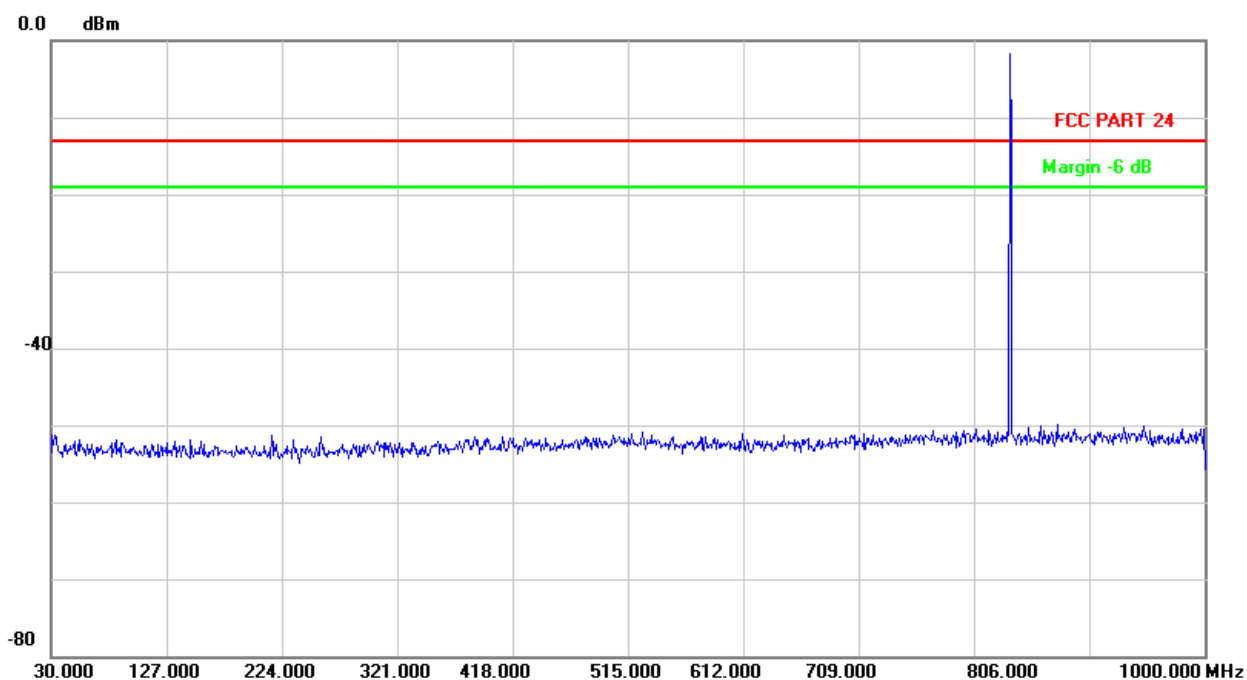
##### 7.1.1 Test Band = GSM850

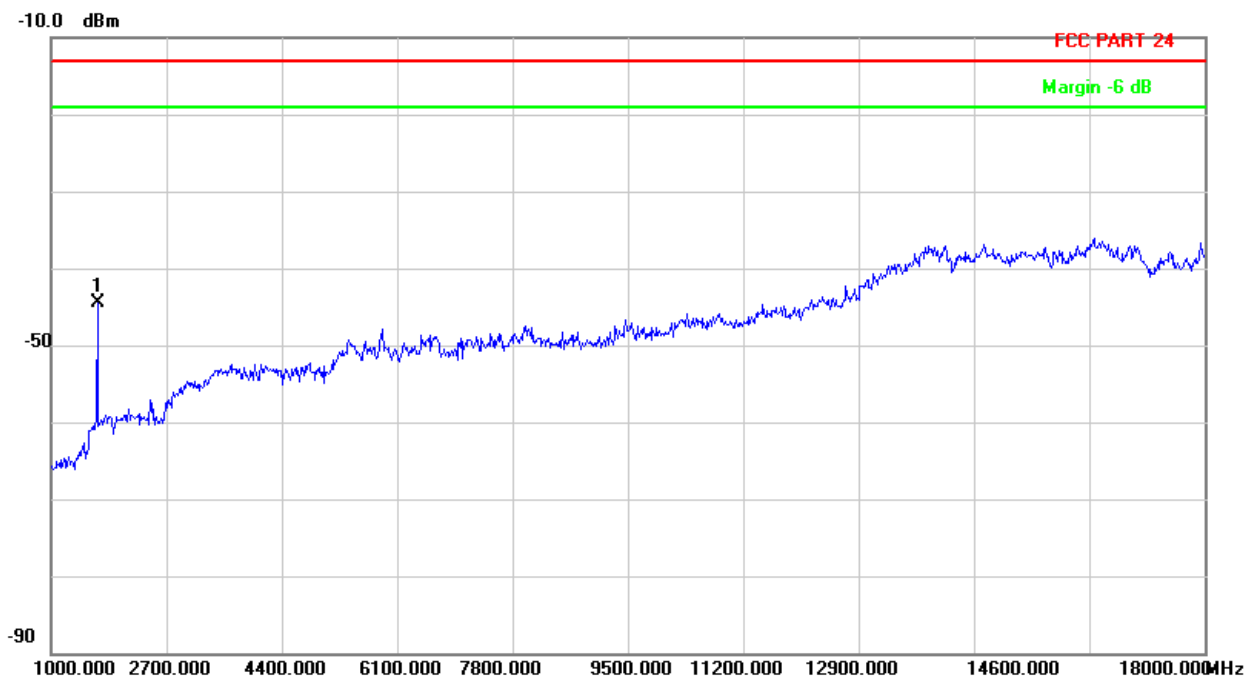
##### 7.1.1.1 Test Mode = GSM/TM1





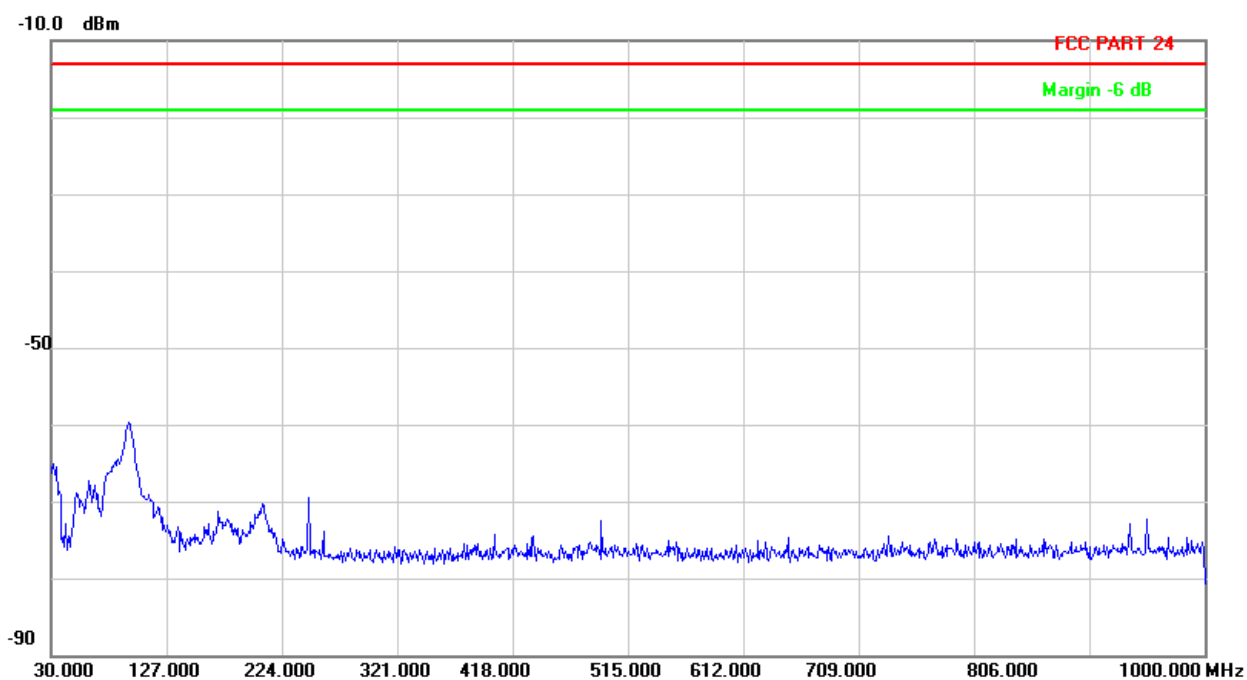
#### 7.1.1.2 Test Mode = GSM/TM2

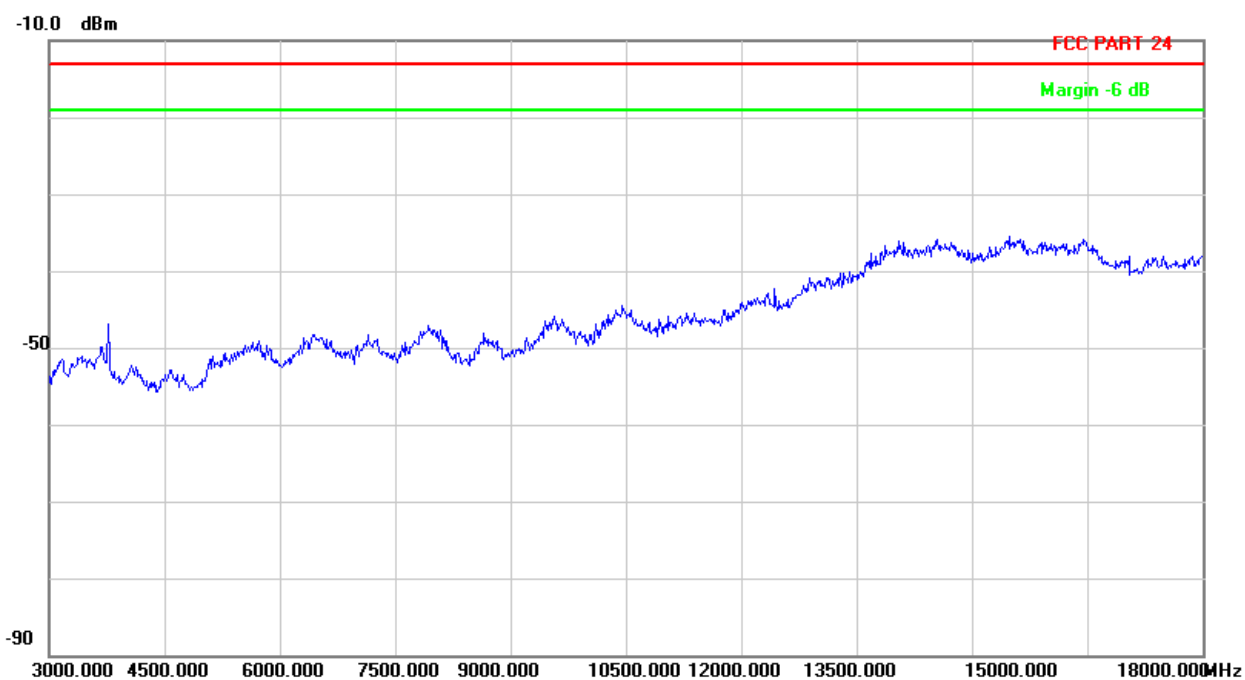
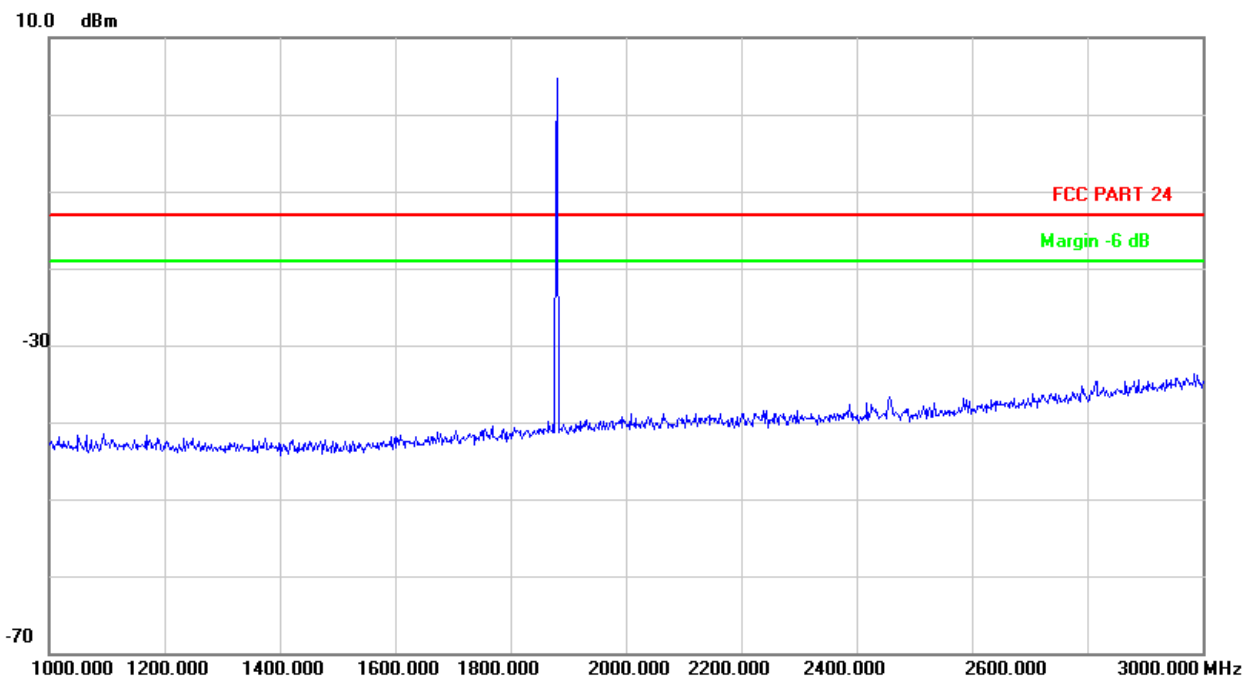




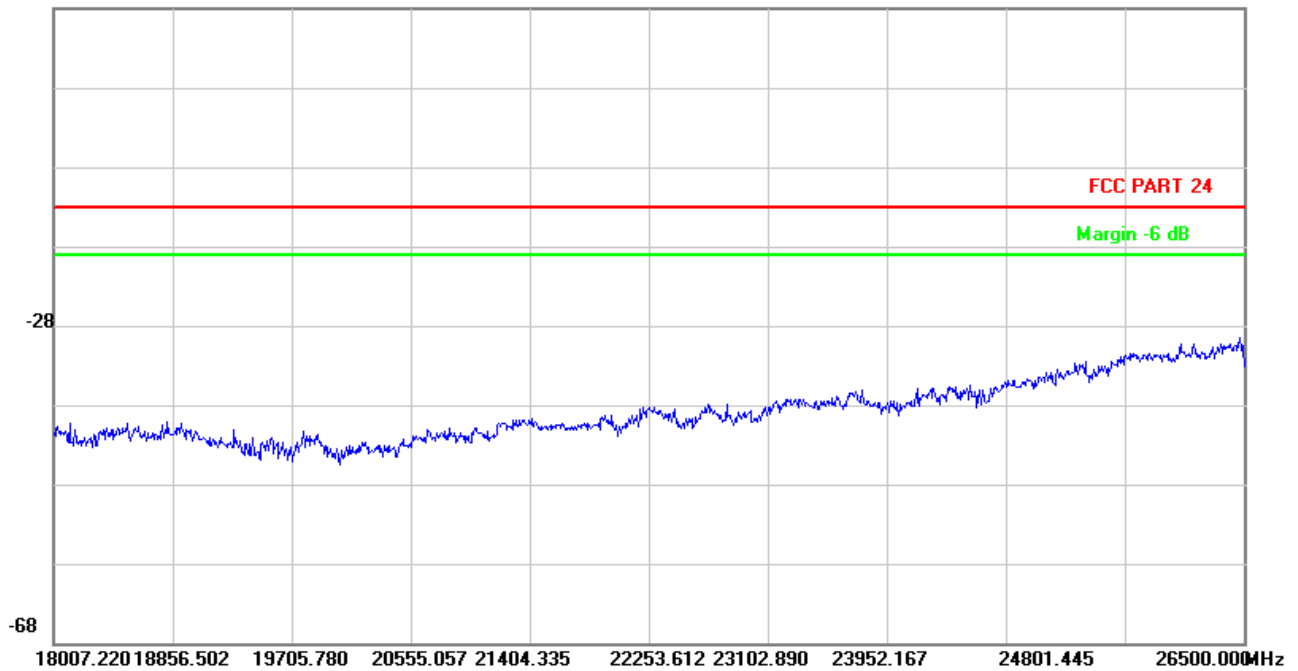
## 7.1.2 Test Band = GSM1900

### 7.1.2.1 Test Mode = GSM/TM1



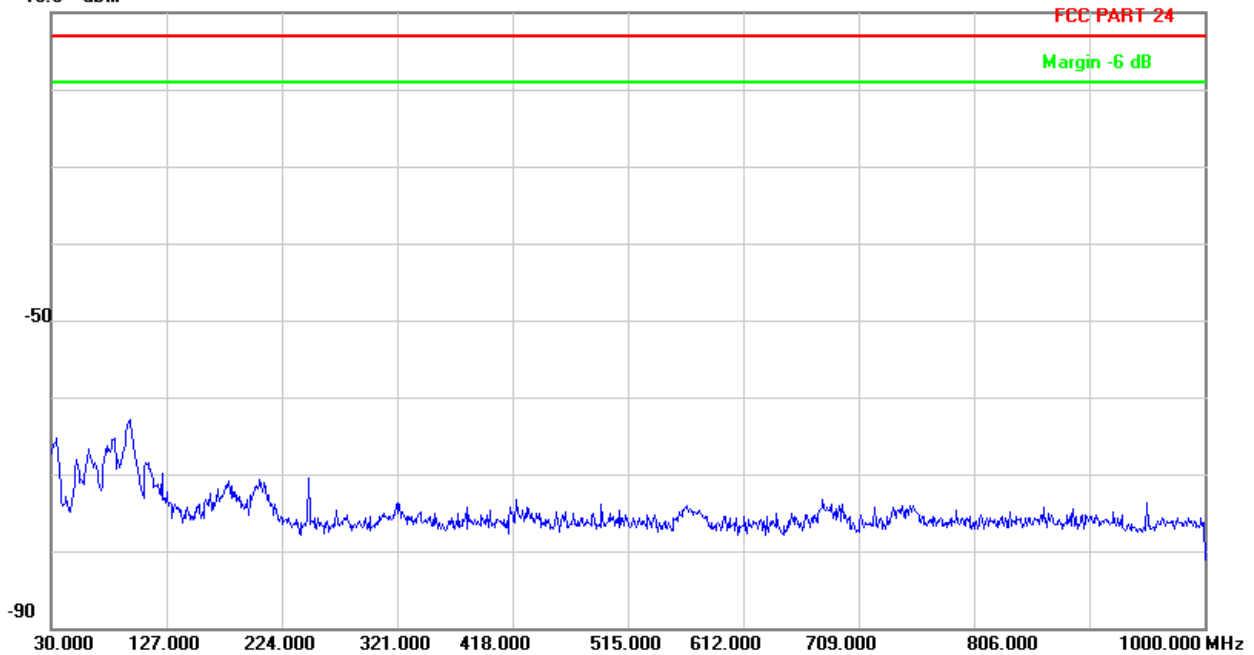


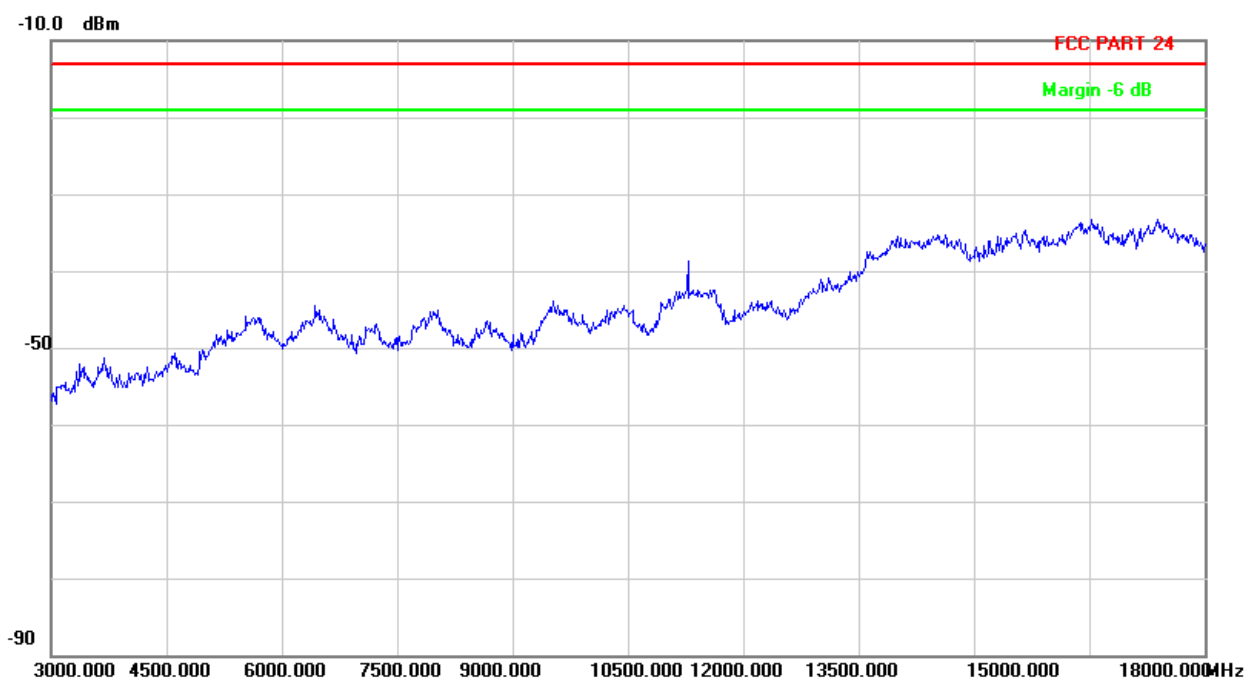
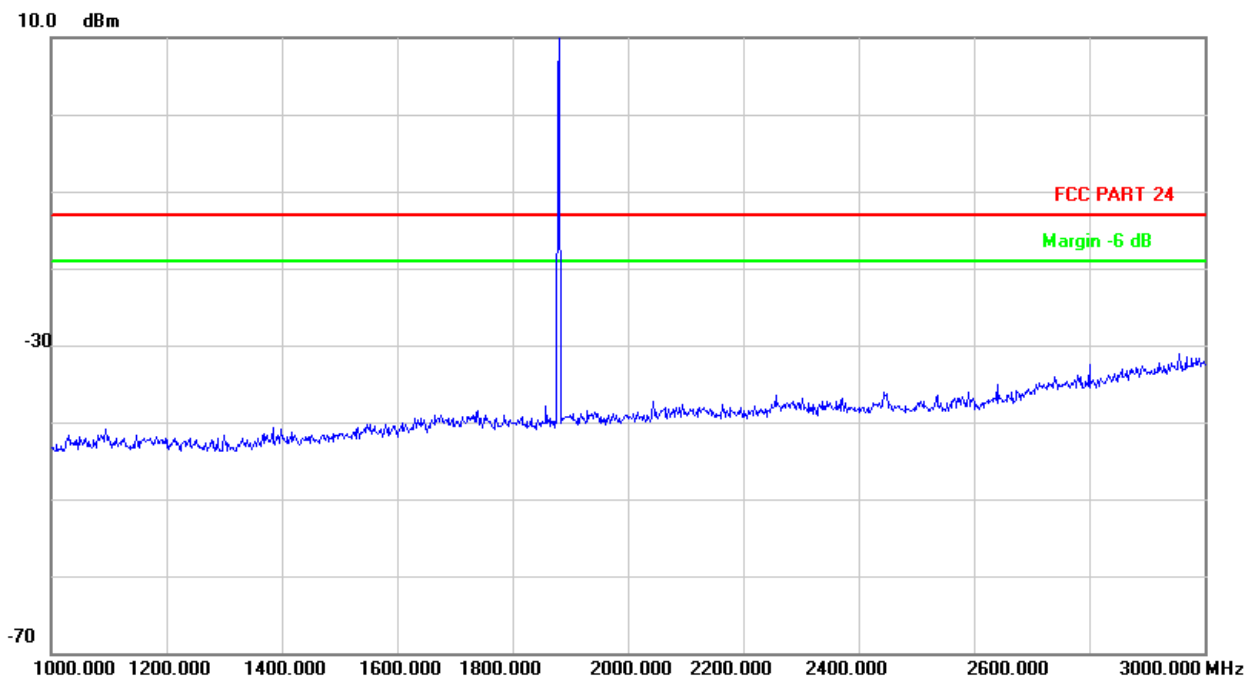
12.0 dBm

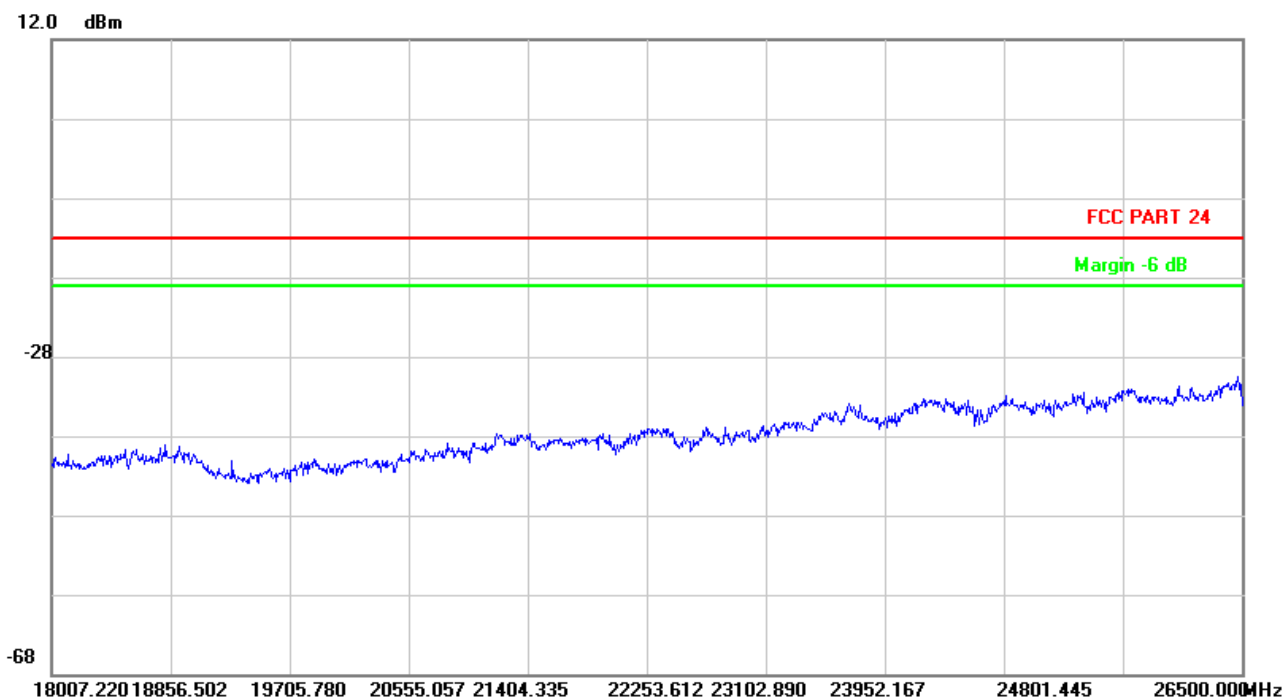


#### 7.1.2.2 Test Mode = GSM/TM2

-10.0 dBm







## 8Appendix\_H: Frequency Stability

### 8.1 For GSM

#### 8.1.1Frequency Error vs. Voltage:

| Test Band | Test Mode | Test Channel | Test Temp. | Test Volt. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|--------------|------------|------------|------------------|-----------------------|---------|
| GSM850    | GSM/TM1   | LCH          | TN         | VL         | -5.42            | -0.00658              | PASS    |
|           |           |              |            | VN         | -2.32            | -0.00281              | PASS    |
|           |           |              |            | VH         | -9.69            | -0.01176              | PASS    |
|           |           | MCH          | TN         | VL         | -4.46            | -0.00533              | PASS    |
|           |           |              |            | VN         | -5.88            | -0.00703              | PASS    |
|           |           |              |            | VH         | -8.91            | -0.01065              | PASS    |
|           |           | HCH          | TN         | VL         | -5.94            | -0.007                | PASS    |
|           |           |              |            | VN         | -1.1             | -0.0013               | PASS    |
|           |           |              |            | VH         | -3.81            | -0.00449              | PASS    |
|           | GSM/TM2   | LCH          | TN         | VL         | -5.81            | -0.00705              | PASS    |
|           |           |              |            | VN         | -8.62            | -0.01046              | PASS    |
|           |           |              |            | VH         | -0.97            | -0.00118              | PASS    |
|           |           | MCH          | TN         | VL         | -5.1             | -0.0061               | PASS    |
|           |           |              |            | VN         | -9.27            | -0.01108              | PASS    |
|           |           |              |            | VH         | -13.24           | -0.01583              | PASS    |
|           |           | HCH          | TN         | VL         | -8.62            | -0.01016              | PASS    |
|           |           |              |            | VN         | -4.84            | -0.0057               | PASS    |
|           |           |              |            | VH         | -11.04           | -0.01301              | PASS    |
| GSM1900   | GSM/TM1   | LCH          | TN         | VL         | 15.37            | 0.00831               | PASS    |
|           |           |              |            | VN         | 17.11            | 0.00925               | PASS    |
|           |           |              |            | VH         | 10.27            | 0.00555               | PASS    |
|           |           | MCH          | TN         | VL         | 15.5             | 0.00824               | PASS    |
|           |           |              |            | VN         | 23.83            | 0.01268               | PASS    |
|           |           |              |            | VH         | 24.34            | 0.01295               | PASS    |
|           |           | HCH          | TN         | VL         | 19.63            | 0.01028               | PASS    |
|           |           |              |            | VN         | 19.95            | 0.01045               | PASS    |
|           |           |              |            | VH         | 15.43            | 0.00808               | PASS    |
|           | GSM/TM2   | LCH          | TN         | VL         | 7.01             | 0.00379               | PASS    |
|           |           |              |            | VN         | 2.84             | 0.00153               | PASS    |
|           |           |              |            | VH         | 8.04             | 0.00435               | PASS    |
|           |           | MCH          | TN         | VL         | 16.85            | 0.00896               | PASS    |
|           |           |              |            | VN         | 13.72            | 0.0073                | PASS    |
|           |           |              |            | VH         | 20.37            | 0.01084               | PASS    |
|           |           | HCH          | TN         | VL         | 14.63            | 0.00766               | PASS    |

| Test Band | Test Mode | Test Channel | Test Temp. | Test Volt. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|--------------|------------|------------|------------------|-----------------------|---------|
|           |           |              |            | VN         | 16.34            | 0.00856               | PASS    |
|           |           |              |            | VH         | 12.46            | 0.00652               | PASS    |

### 8.1.2 Frequency Error vs. Temperature:

| Test Band | Test Mode | Test Channel | Test Volt. | Test Temp. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|--------------|------------|------------|------------------|-----------------------|---------|
| GSM850    | GSM/TM1   | LCH          | VN         | -30        | -1.94            | -0.00235              | PASS    |
|           |           |              |            | -20        | -0.77            | -0.00093              | PASS    |
|           |           |              |            | -10        | -4.84            | -0.00587              | PASS    |
|           |           |              |            | 0          | -4.52            | -0.00548              | PASS    |
|           |           |              |            | 10         | -6.01            | -0.00729              | PASS    |
|           |           |              |            | 20         | -4.46            | -0.00541              | PASS    |
|           |           |              |            | 30         | -4.26            | -0.00517              | PASS    |
|           |           |              |            | 40         | -1.81            | -0.0022               | PASS    |
|           |           |              |            | 50         | -5.94            | -0.00721              | PASS    |
|           |           | MCH          | VN         | -30        | -2.32            | -0.00277              | PASS    |
|           |           |              |            | -20        | -5.75            | -0.00687              | PASS    |
|           |           |              |            | -10        | -2.65            | -0.00317              | PASS    |
|           |           |              |            | 0          | -2.71            | -0.00324              | PASS    |
|           |           |              |            | 10         | -2.45            | -0.00293              | PASS    |
|           |           |              |            | 20         | -3.94            | -0.00471              | PASS    |
|           |           |              |            | 30         | -5.1             | -0.0061               | PASS    |
|           |           |              |            | 40         | -4.58            | -0.00547              | PASS    |
|           |           |              |            | 50         | -5.68            | -0.00679              | PASS    |
|           |           | HCH          | VN         | -30        | -4.07            | -0.0048               | PASS    |
|           |           |              |            | -20        | -7.1             | -0.00836              | PASS    |
|           |           |              |            | -10        | -8.07            | -0.00951              | PASS    |
|           |           |              |            | 0          | -5.81            | -0.00684              | PASS    |
|           |           |              |            | 10         | -5.17            | -0.00609              | PASS    |
|           |           |              |            | 20         | -4.65            | -0.00548              | PASS    |
|           |           |              |            | 30         | -5.42            | -0.00639              | PASS    |
|           |           |              |            | 40         | -5.36            | -0.00631              | PASS    |
|           |           |              |            | 50         | -5.55            | -0.00654              | PASS    |
|           | GSM/TM2   | LCH          | VN         | -30        | -0.9             | -0.00109              | PASS    |
|           |           |              |            | -20        | -3.62            | -0.00439              | PASS    |
|           |           |              |            | -10        | -1.32            | -0.0016               | PASS    |
|           |           |              |            | 0          | -5.33            | -0.00647              | PASS    |
|           |           |              |            | 10         | -7.85            | -0.00952              | PASS    |
|           |           |              |            | 20         | -5.1             | -0.00619              | PASS    |

| Test Band | Test Mode | Test Channel | Test Volt. | Test Temp. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|--------------|------------|------------|------------------|-----------------------|---------|
|           |           |              |            | 30         | -3.42            | -0.00415              | PASS    |
|           |           |              |            | 40         | -0.52            | -0.00063              | PASS    |
|           |           |              |            | 50         | 0.65             | 0.00079               | PASS    |
|           |           | MCH          | VN         | -30        | -6.78            | -0.0081               | PASS    |
|           |           |              |            | -20        | -7.68            | -0.00918              | PASS    |
|           |           |              |            | -10        | -5.17            | -0.00618              | PASS    |
|           |           |              |            | 0          | -6.13            | -0.00733              | PASS    |
|           |           |              |            | 10         | -2.78            | -0.00332              | PASS    |
|           |           |              |            | 20         | -2.26            | -0.0027               | PASS    |
|           |           |              |            | 30         | -6.59            | -0.00788              | PASS    |
|           |           |              |            | 40         | -2.84            | -0.00339              | PASS    |
|           |           |              |            | 50         | -11.66           | -0.01394              | PASS    |
|           |           | HCH          | VN         | -30        | -14.24           | -0.01678              | PASS    |
|           |           |              |            | -20        | -9.27            | -0.01092              | PASS    |
|           |           |              |            | -10        | -5.81            | -0.00684              | PASS    |
|           |           |              |            | 0          | -8.46            | -0.00997              | PASS    |
|           |           |              |            | 10         | -5.78            | -0.00681              | PASS    |
|           |           |              |            | 20         | -8.14            | -0.00959              | PASS    |
|           |           |              |            | 30         | -5.07            | -0.00597              | PASS    |
|           |           |              |            | 40         | -5.42            | -0.00639              | PASS    |
|           |           |              |            | 50         | -6.1             | -0.00719              | PASS    |
| GSM1900   | GSM/TM1   | LCH          | VN         | -30        | 13.11            | 0.00709               | PASS    |
|           |           |              |            | -20        | 5.94             | 0.00321               | PASS    |
|           |           |              |            | -10        | 10.91            | 0.0059                | PASS    |
|           |           |              |            | 0          | 8.14             | 0.0044                | PASS    |
|           |           |              |            | 10         | 5.36             | 0.0029                | PASS    |
|           |           |              |            | 20         | 7.04             | 0.0038                | PASS    |
|           |           |              |            | 30         | 9.17             | 0.00496               | PASS    |
|           |           |              |            | 40         | 7.81             | 0.00422               | PASS    |
|           |           |              |            | 50         | 7.43             | 0.00402               | PASS    |
|           |           | MCH          | VN         | -30        | 14.53            | 0.00773               | PASS    |
|           |           |              |            | -20        | 23.44            | 0.01247               | PASS    |
|           |           |              |            | -10        | 18.79            | 0.00999               | PASS    |
|           |           |              |            | 0          | 26.15            | 0.01391               | PASS    |
|           |           |              |            | 10         | 19.82            | 0.01054               | PASS    |
|           |           |              |            | 20         | 21.63            | 0.01151               | PASS    |
|           |           |              |            | 30         | 20.15            | 0.01072               | PASS    |
|           |           |              |            | 40         | 12.85            | 0.00684               | PASS    |
|           |           |              |            | 50         | 23.5             | 0.0125                | PASS    |
|           |           | HCH          | VN         | -30        | 18.98            | 0.00994               | PASS    |

| Test Band | Test Mode | Test Channel | Test Volt. | Test Temp. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|--------------|------------|------------|------------------|-----------------------|---------|
|           |           |              |            | -20        | 22.28            | 0.01167               | PASS    |
|           |           |              |            | -10        | 14.92            | 0.00781               | PASS    |
|           |           |              |            | 0          | 15.37            | 0.00805               | PASS    |
|           |           |              |            | 10         | 11.69            | 0.00612               | PASS    |
|           |           |              |            | 20         | 17.5             | 0.00916               | PASS    |
|           |           |              |            | 30         | 15.69            | 0.00822               | PASS    |
|           |           |              |            | 40         | 20.66            | 0.01082               | PASS    |
|           |           |              |            | 50         | 16.4             | 0.00859               | PASS    |
|           | GSM/TM2   | LCH          | VN         | -30        | 8.04             | 0.00435               | PASS    |
|           |           |              |            | -20        | 7.52             | 0.00406               | PASS    |
|           |           |              |            | -10        | 8.46             | 0.00457               | PASS    |
|           |           |              |            | 0          | 1.07             | 0.00058               | PASS    |
|           |           |              |            | 10         | 5                | 0.0027                | PASS    |
|           |           |              |            | 20         | 8.36             | 0.00452               | PASS    |
|           |           |              |            | 30         | 7.17             | 0.00388               | PASS    |
|           |           |              |            | 40         | 4.91             | 0.00265               | PASS    |
|           |           |              |            | 50         | 13.75            | 0.00743               | PASS    |
|           |           | MCH          | VN         | -30        | 17.69            | 0.00941               | PASS    |
|           |           |              |            | -20        | 22.63            | 0.01204               | PASS    |
|           |           |              |            | -10        | 22.89            | 0.01218               | PASS    |
|           |           |              |            | 0          | 17.31            | 0.00921               | PASS    |
|           |           |              |            | 10         | 16.18            | 0.00861               | PASS    |
|           |           |              |            | 20         | 20.89            | 0.01111               | PASS    |
|           |           |              |            | 30         | 17.24            | 0.00917               | PASS    |
|           |           |              |            | 40         | 19.27            | 0.01025               | PASS    |
|           |           |              |            | 50         | 14.56            | 0.00774               | PASS    |
|           |           | HCH          | VN         | -30        | 19.73            | 0.01033               | PASS    |
|           |           |              |            | -20        | 12.37            | 0.00648               | PASS    |
|           |           |              |            | -10        | 19.4             | 0.01016               | PASS    |
|           |           |              |            | 0          | 13.4             | 0.00702               | PASS    |
|           |           |              |            | 10         | 14.88            | 0.00779               | PASS    |
|           |           |              |            | 20         | 12.3             | 0.00644               | PASS    |
|           |           |              |            | 30         | 13.72            | 0.00718               | PASS    |
|           |           |              |            | 40         | 13.01            | 0.00681               | PASS    |
|           |           |              |            | 50         | 16.56            | 0.00867               | PASS    |

END