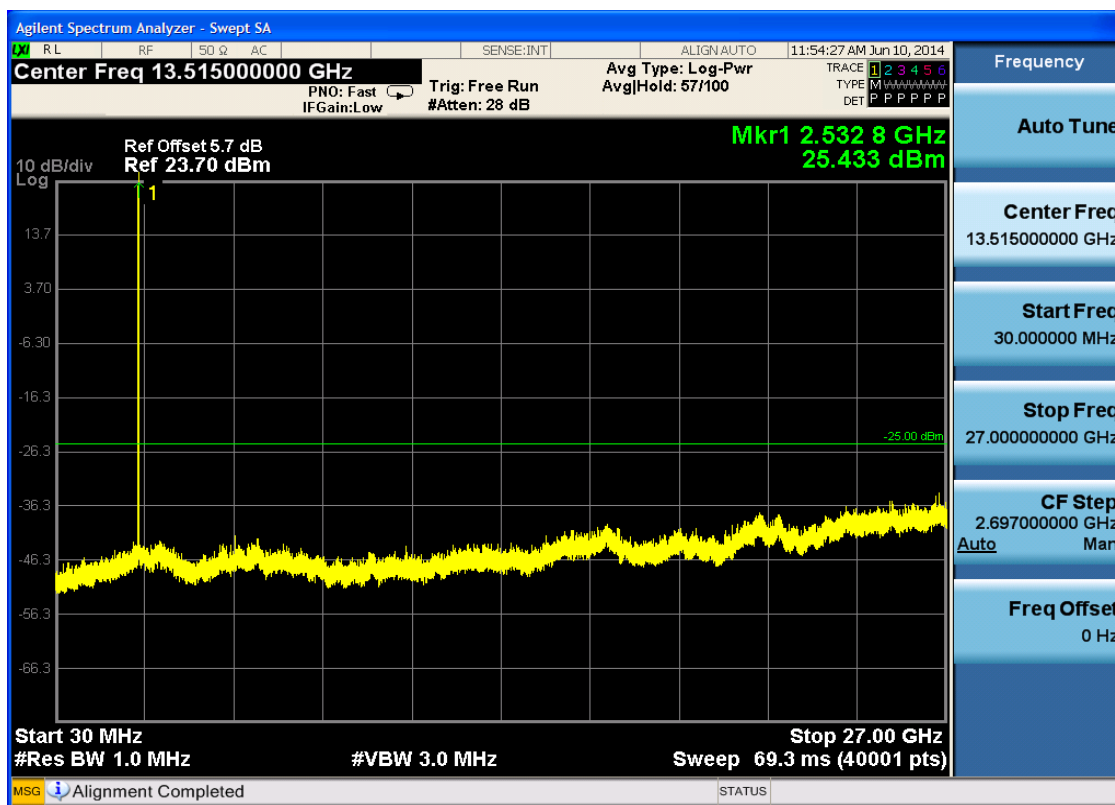
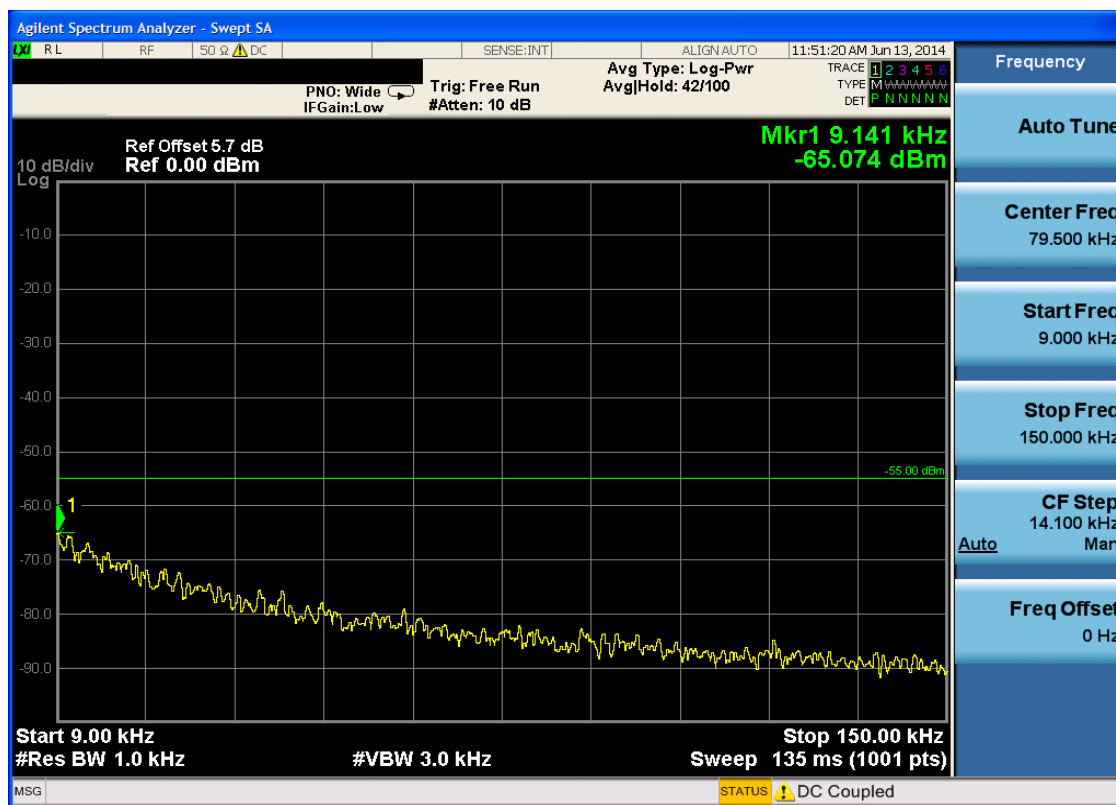
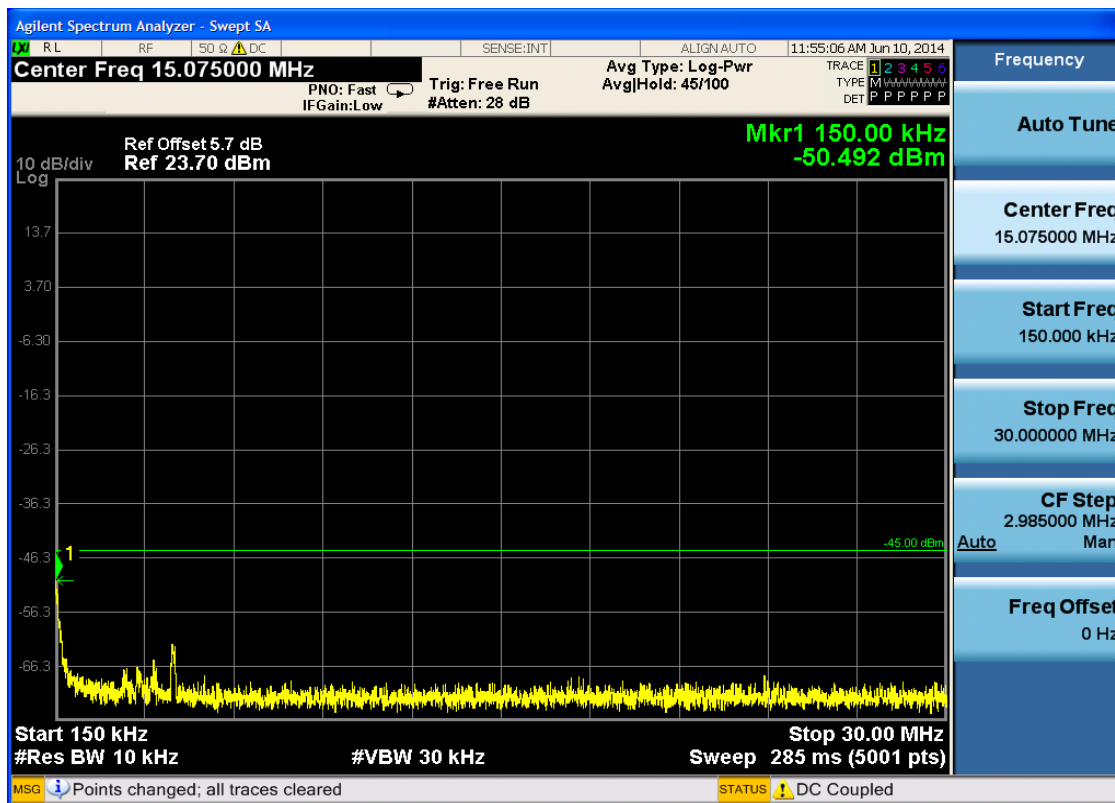


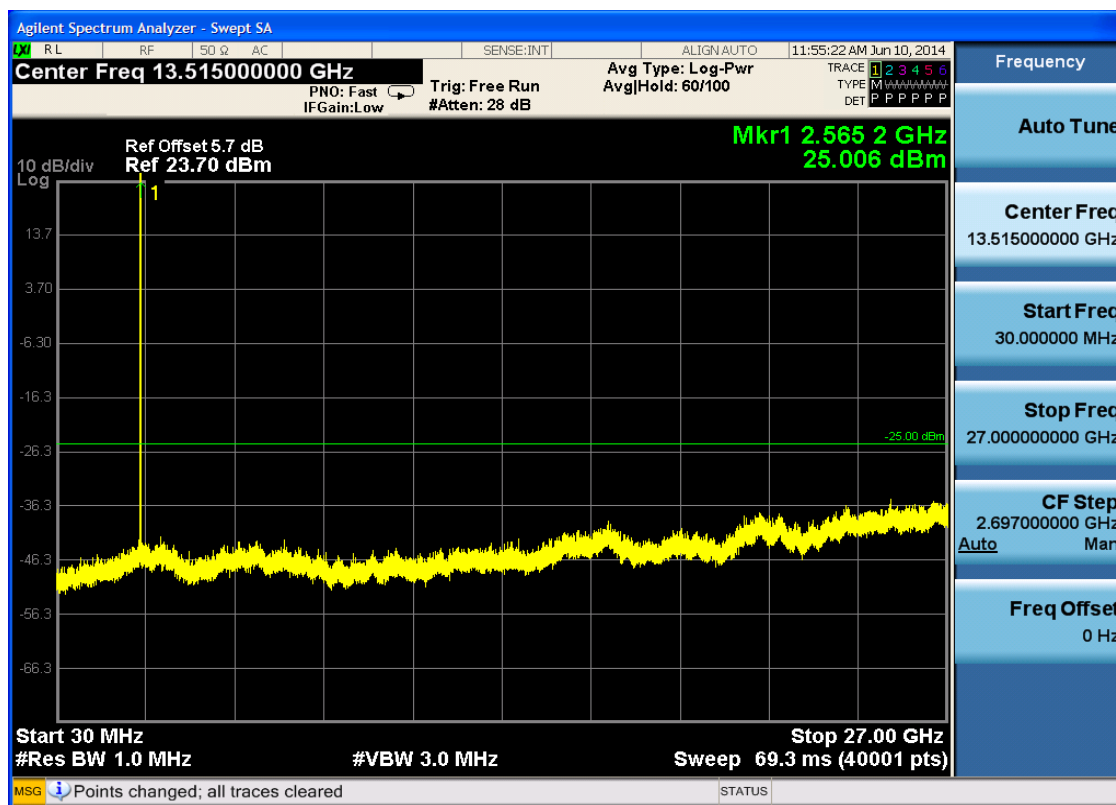


### 6.3.2.2.1.3 Test Channel = HCH

#### 6.3.2.2.1.3.1 Test RB = RB1#0



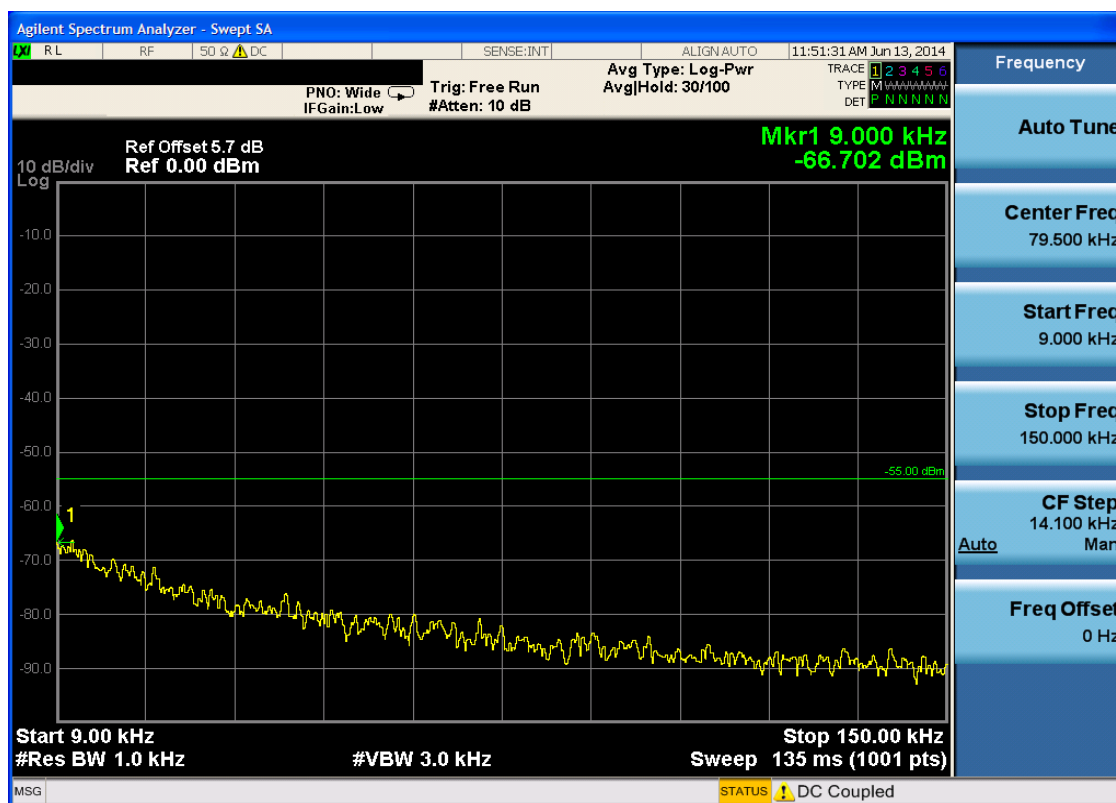


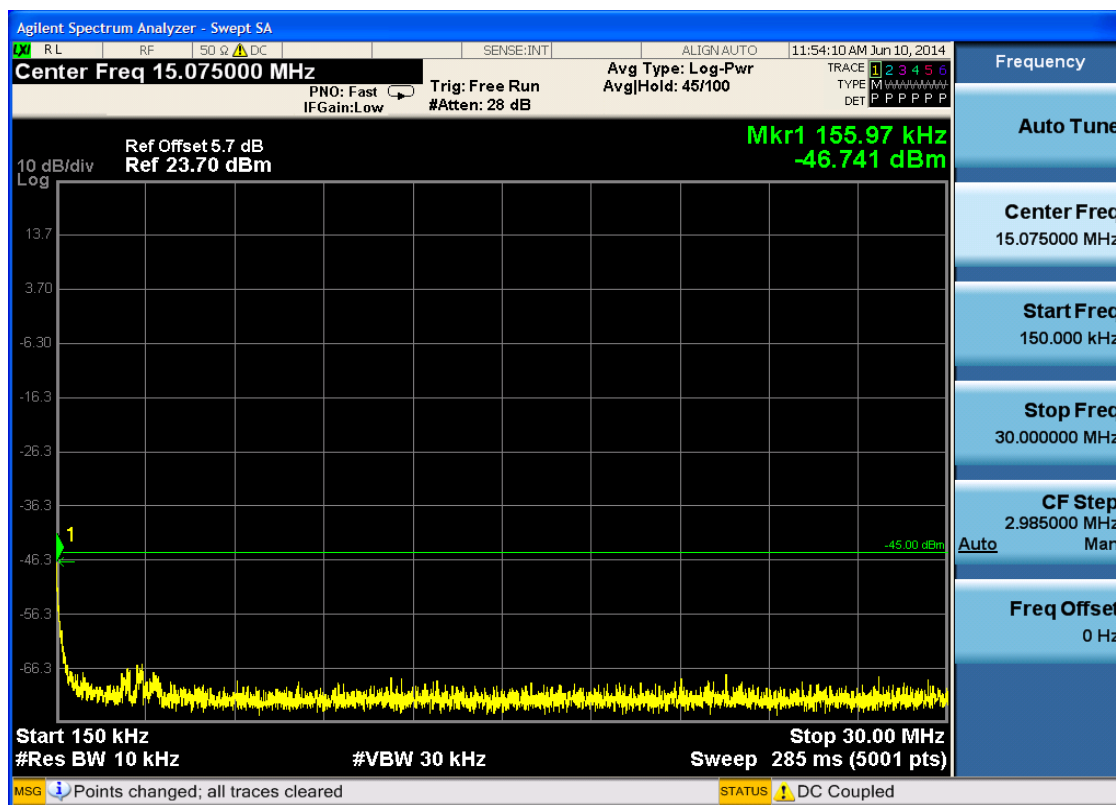


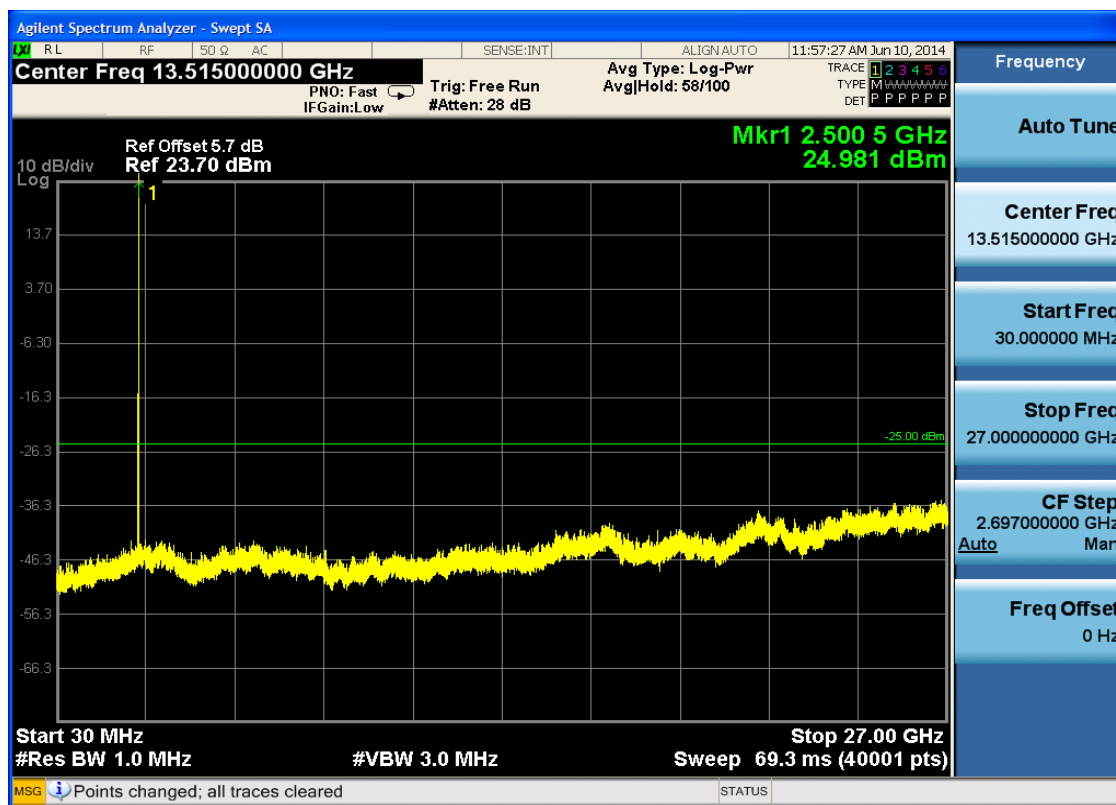
### 6.3.2.2.2 Test Bandwidth = 10

#### 6.3.2.2.2.1 Test Channel = LCH

##### 6.3.2.2.2.1.1 Test RB = RB1#0

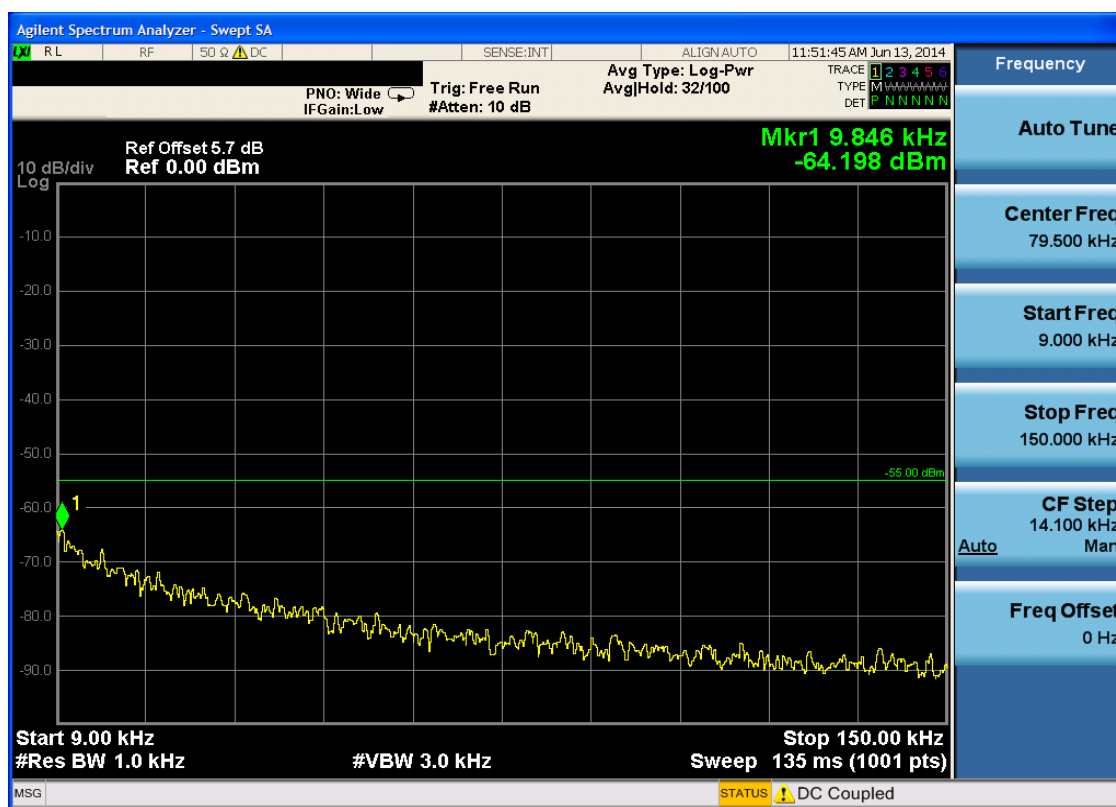


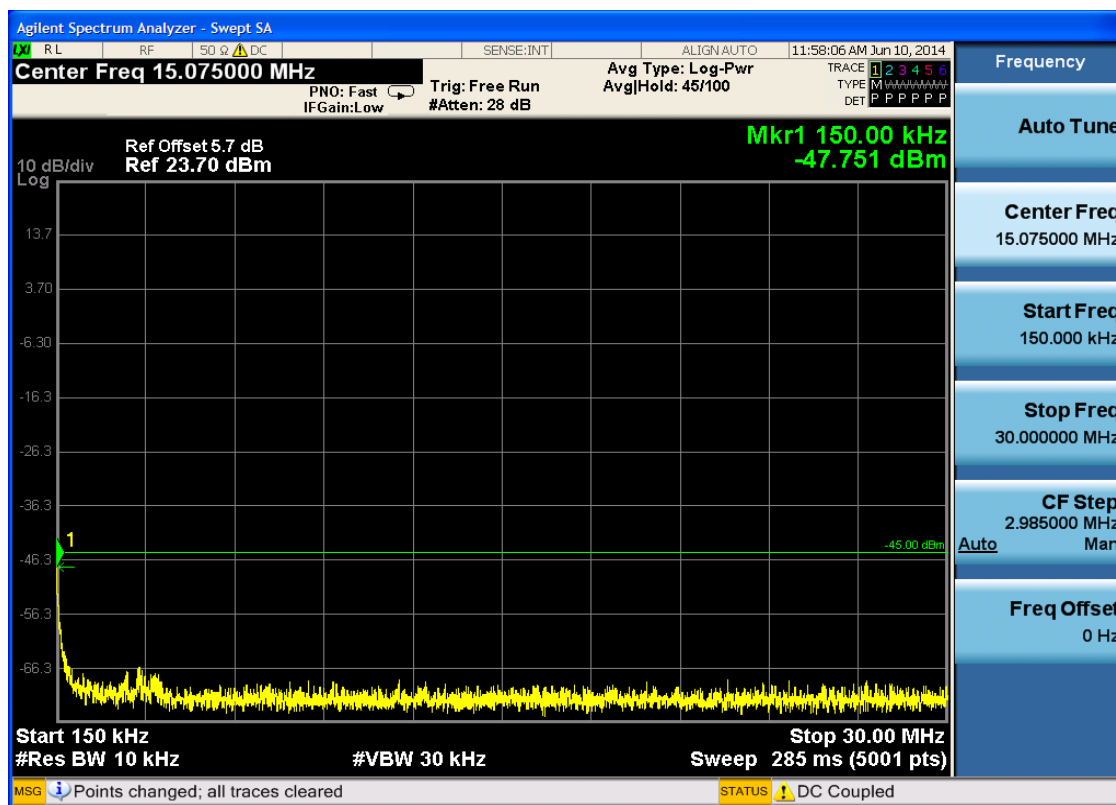


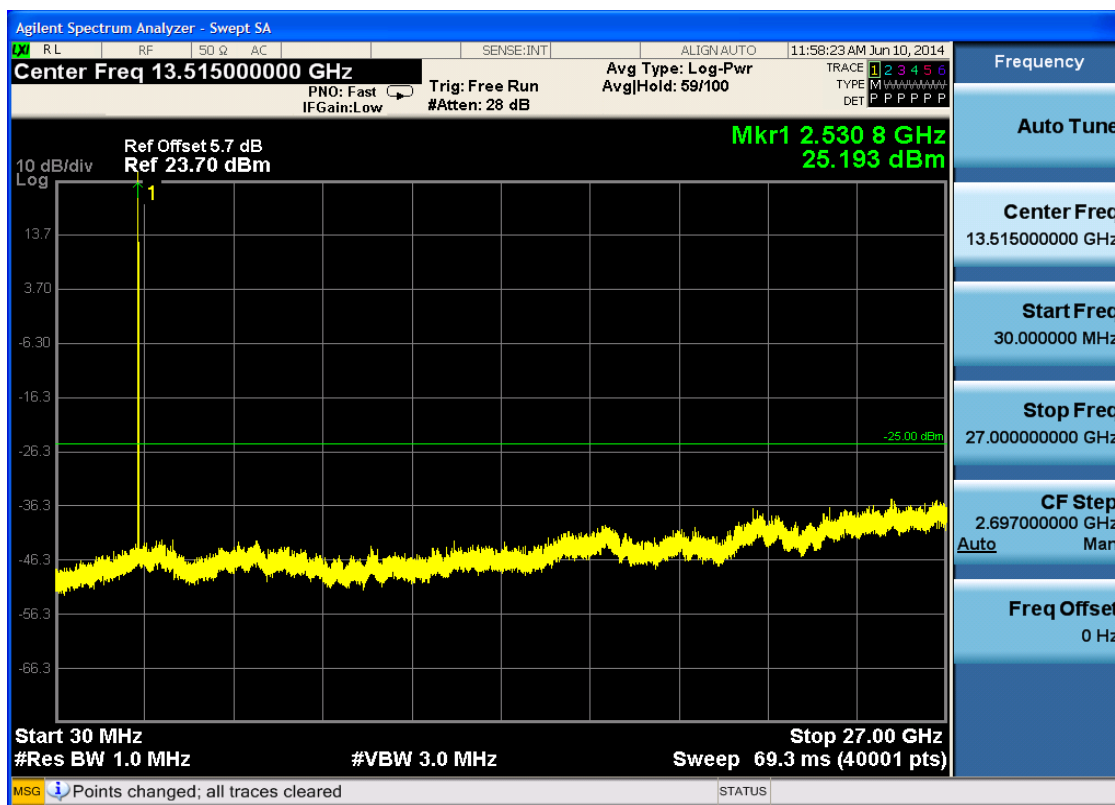


#### 6.3.2.2.2 Test Channel = MCH

#### 6.3.2.2.2.2.1 Test RB = RB1#0

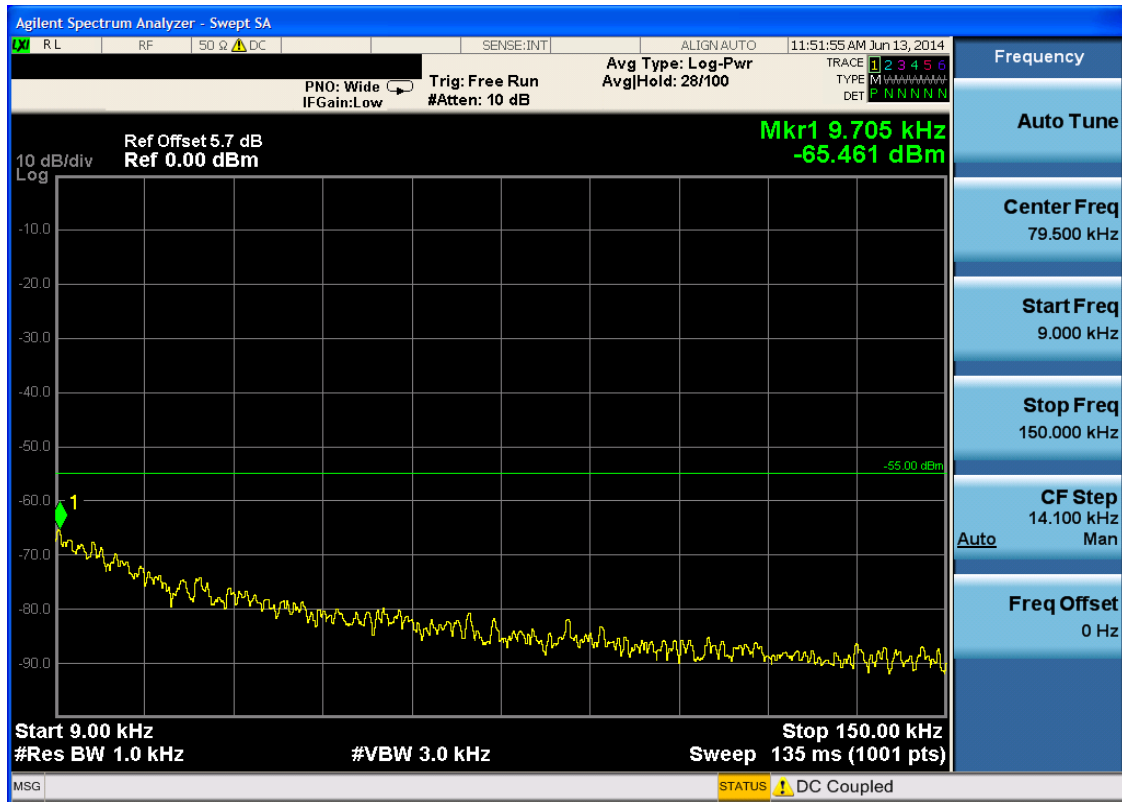


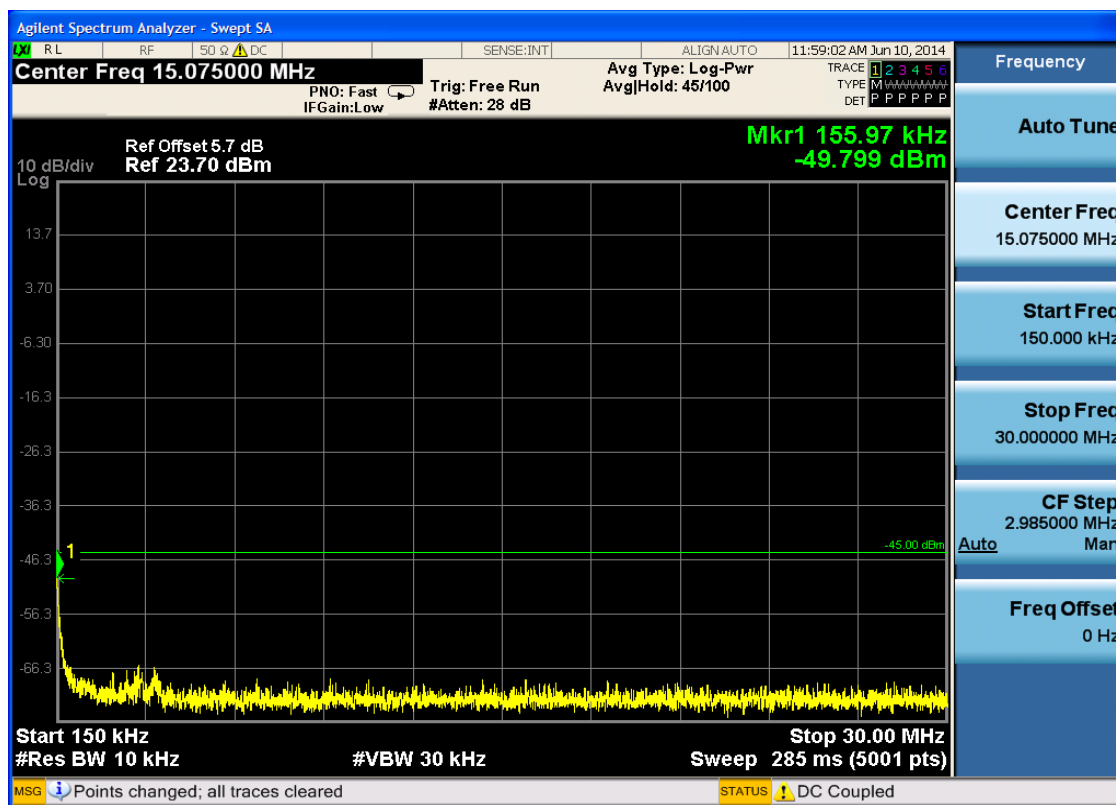


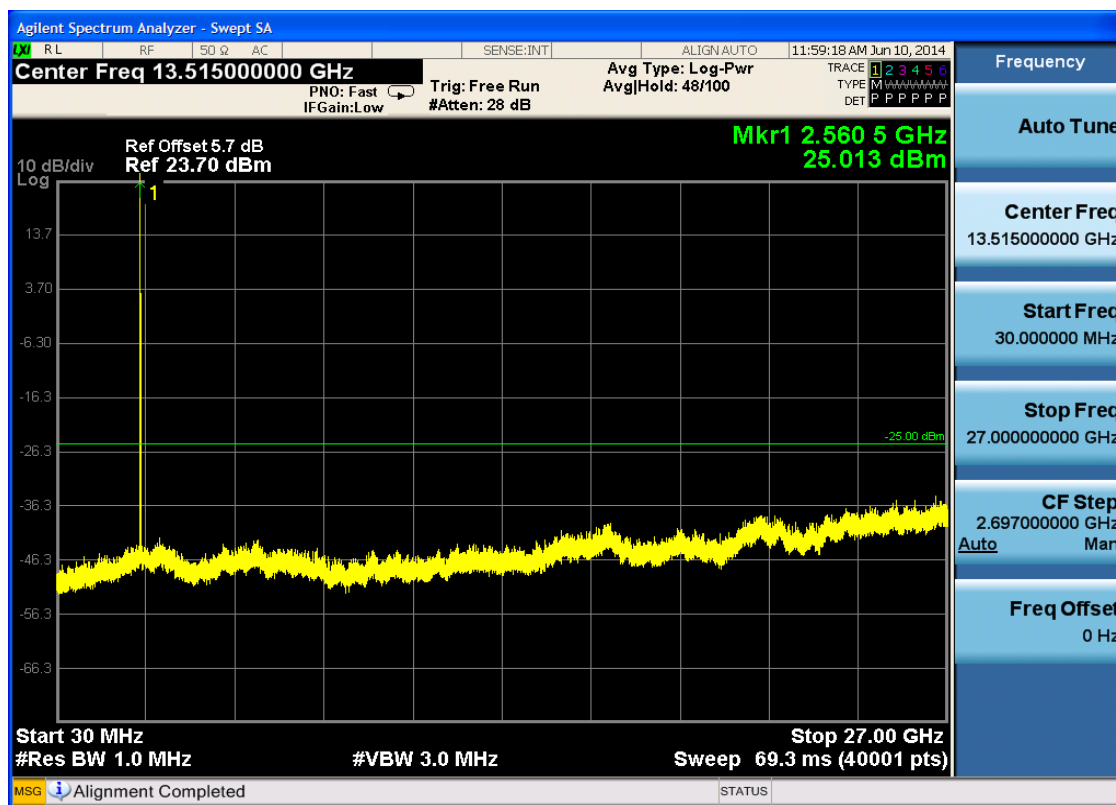


### 6.3.2.2.2.3 Test Channel = HCH

#### 6.3.2.2.2.3.1 Test RB = RB1#0



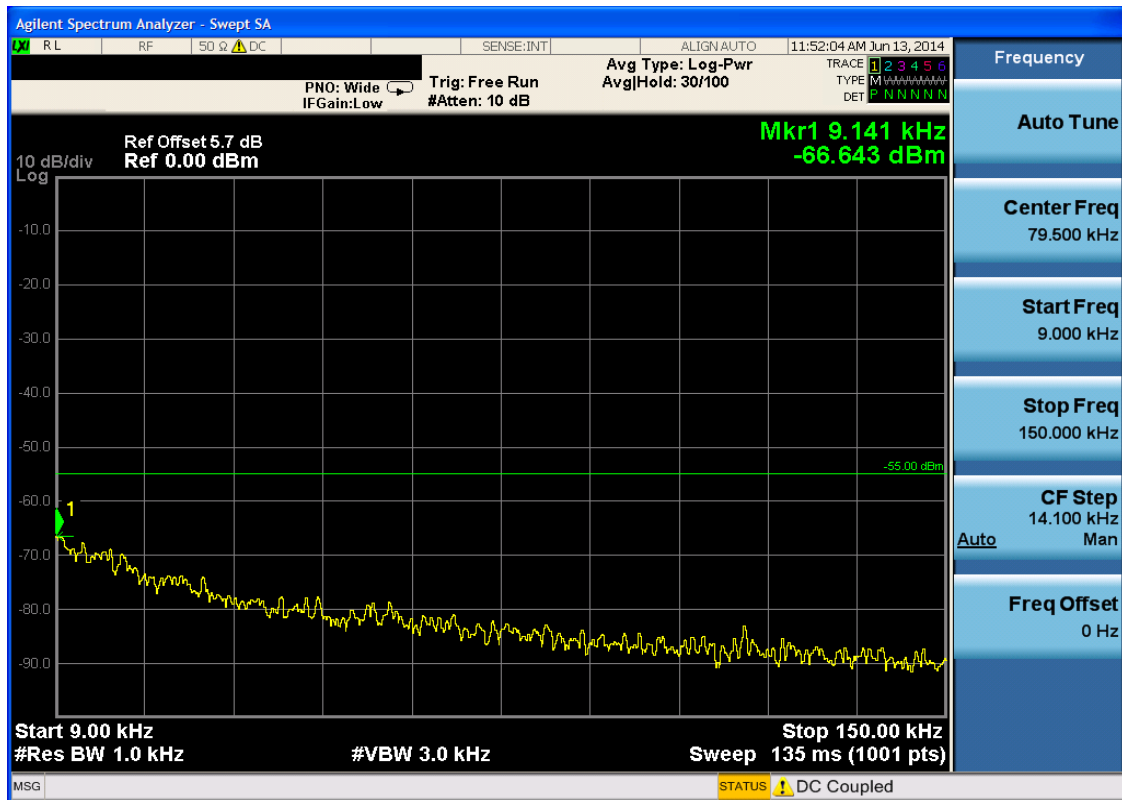


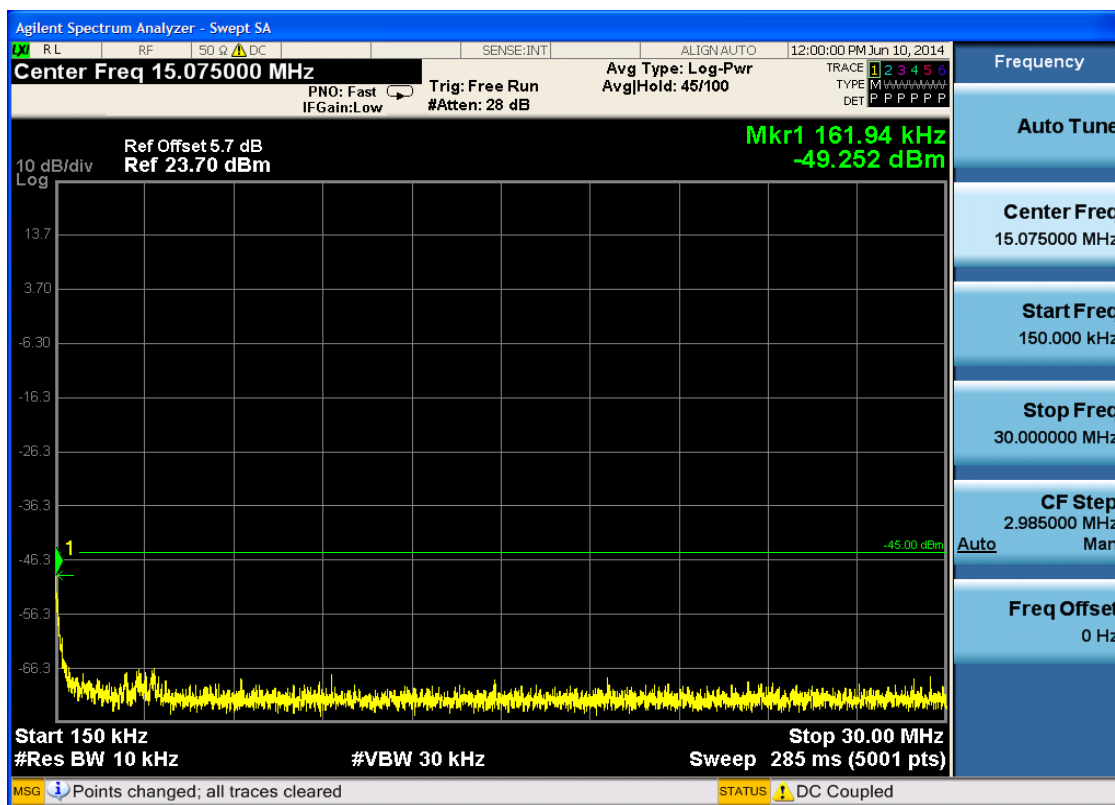


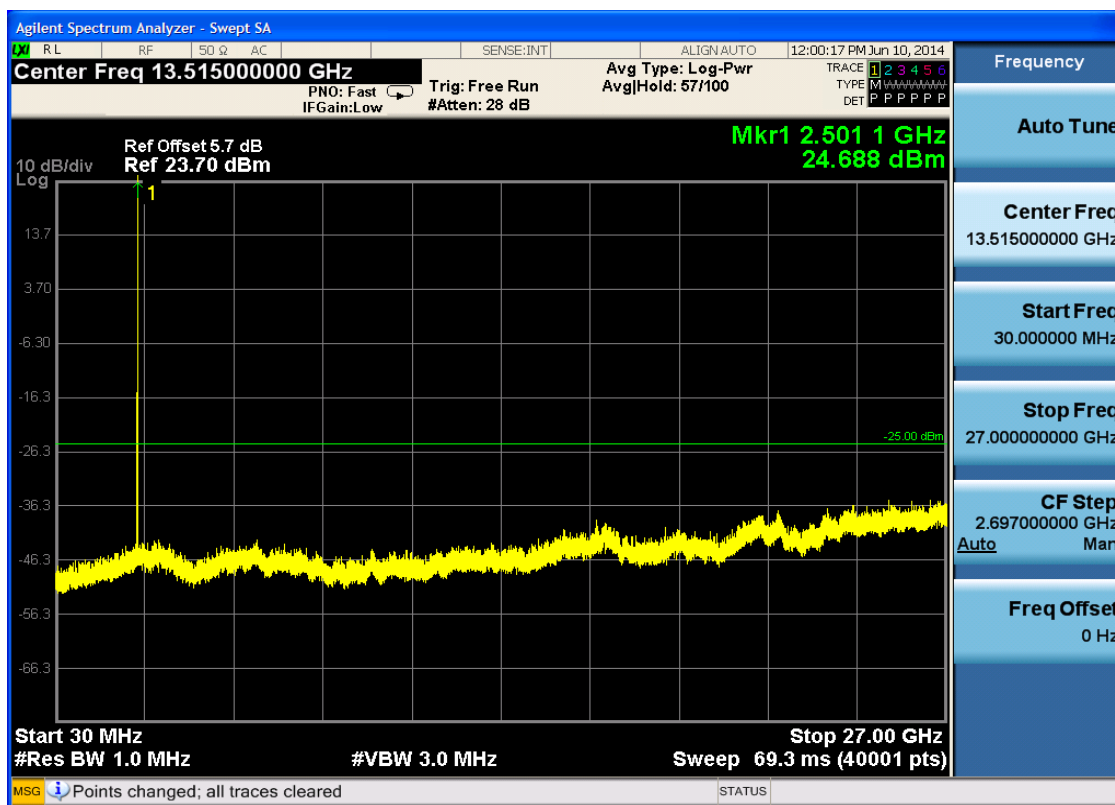
### 6.3.2.2.3 Test Bandwidth = 15

#### 6.3.2.2.3.1 Test Channel = LCH

##### 6.3.2.2.3.1.1 Test RB = RB1#0

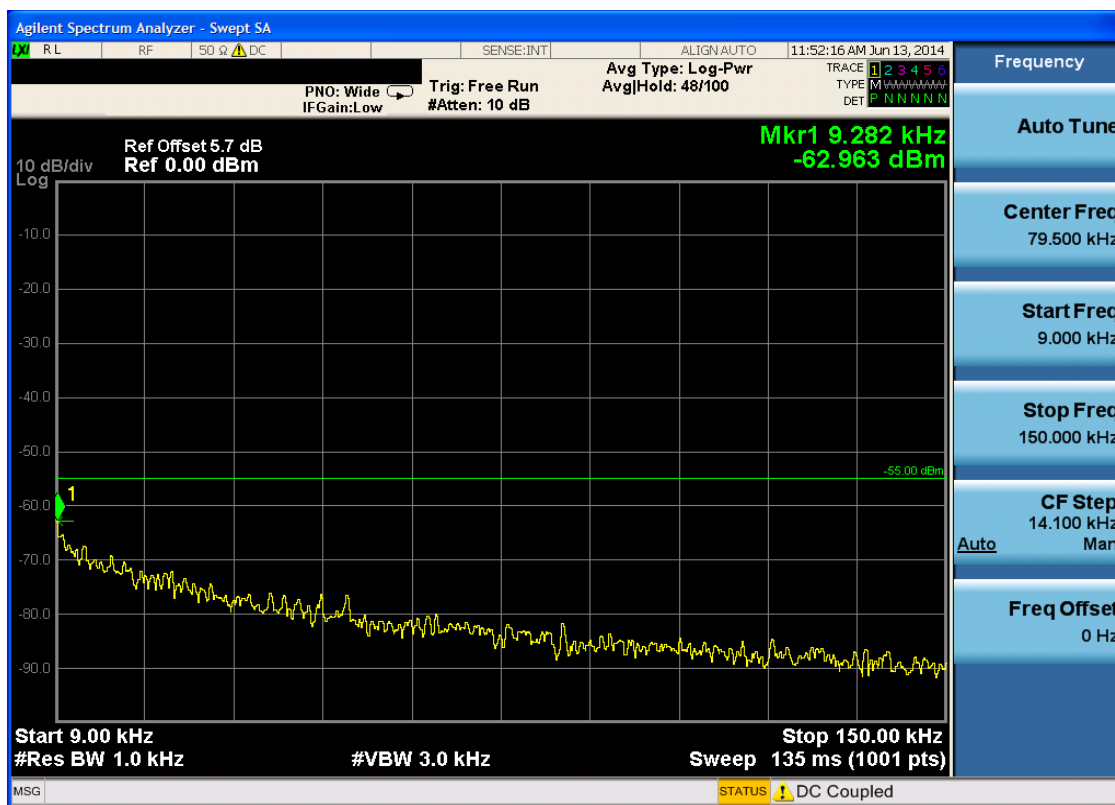


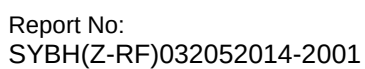


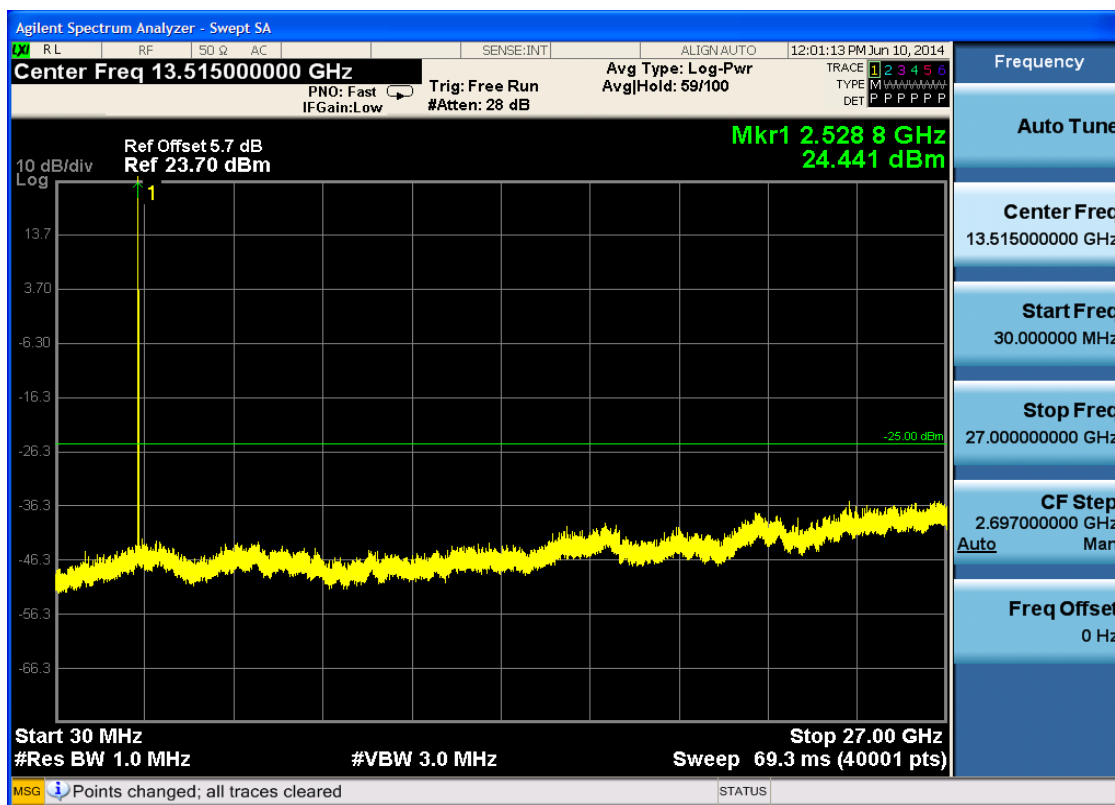


### 6.3.2.2.3.2 Test Channel = MCH

#### 6.3.2.2.3.2.1 Test RB = RB1#0

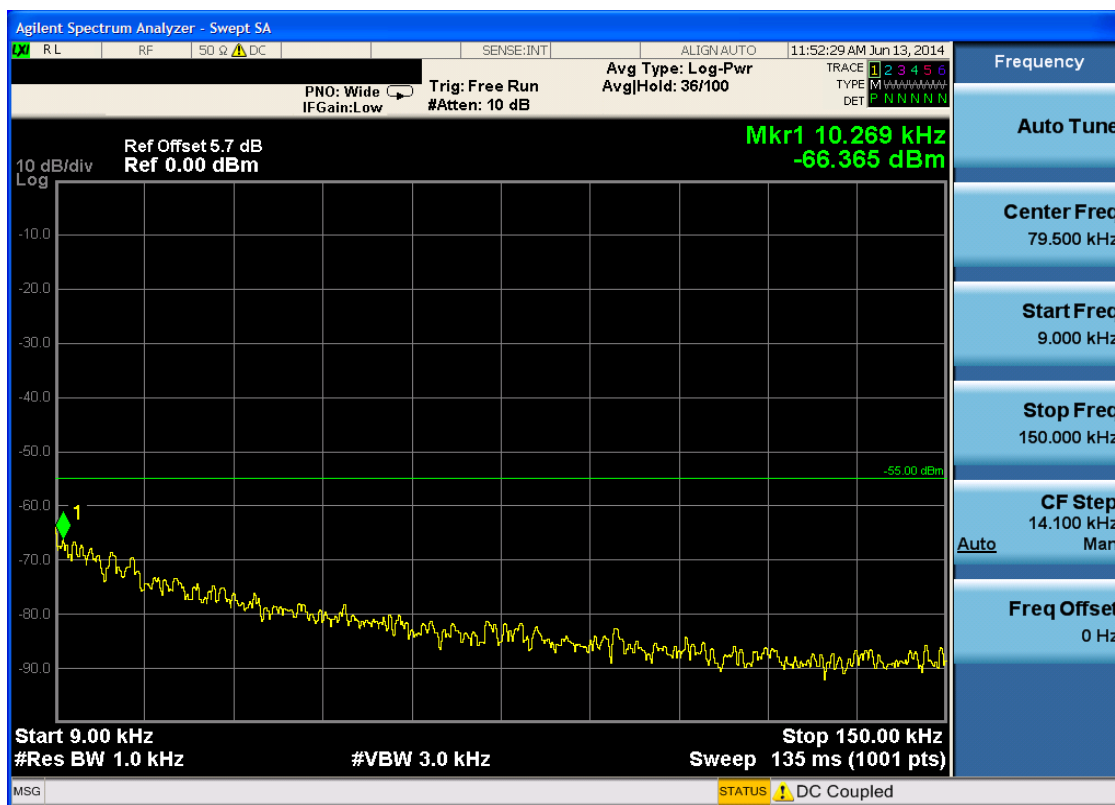


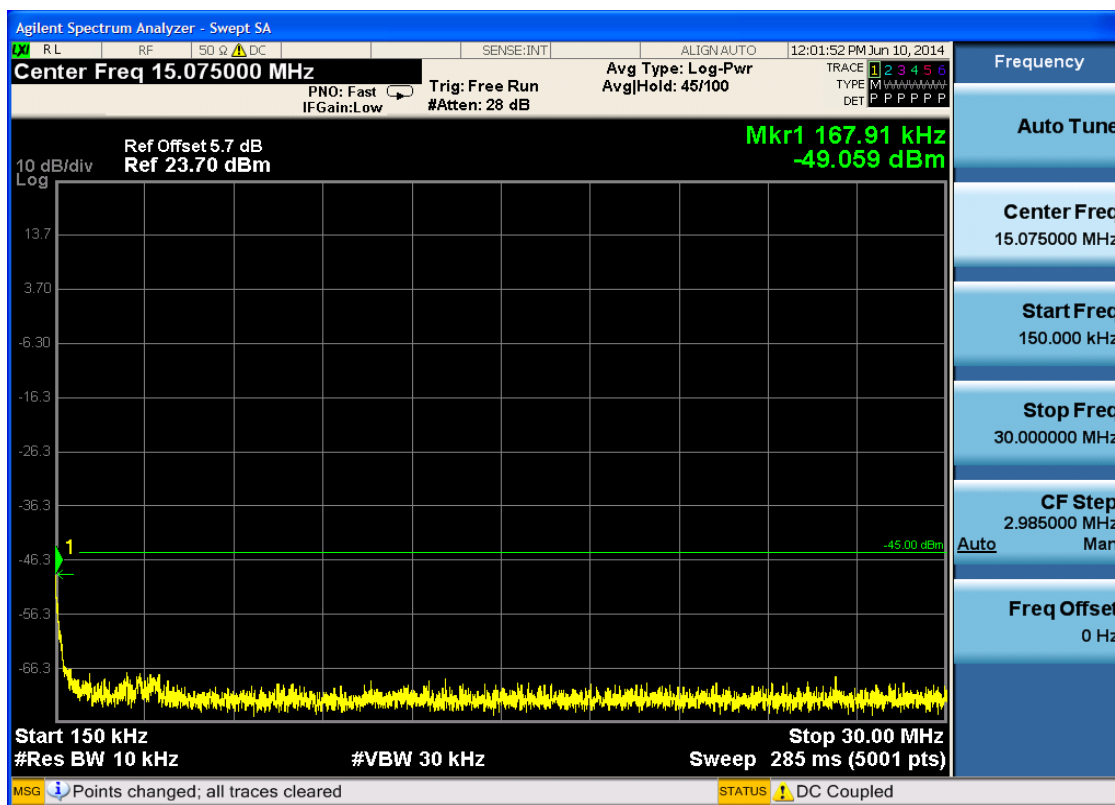


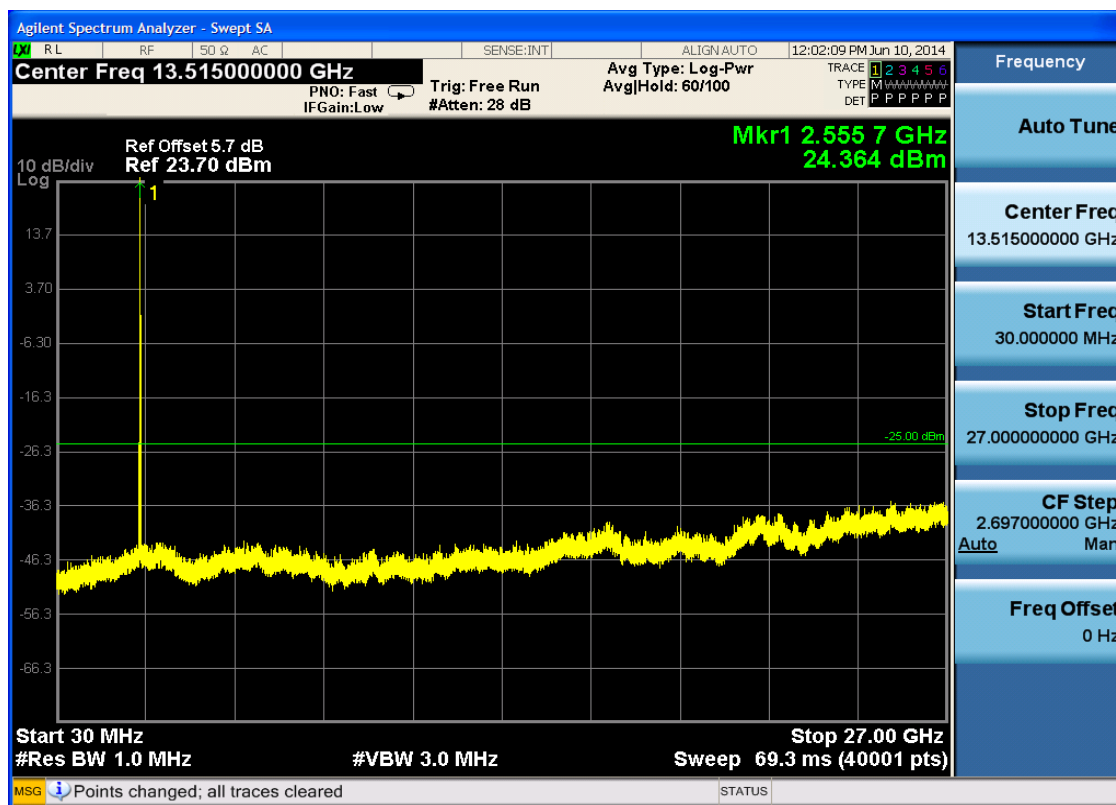


### 6.3.2.2.3.3 Test Channel = HCH

#### 6.3.2.2.3.3.1 Test RB = RB1#0



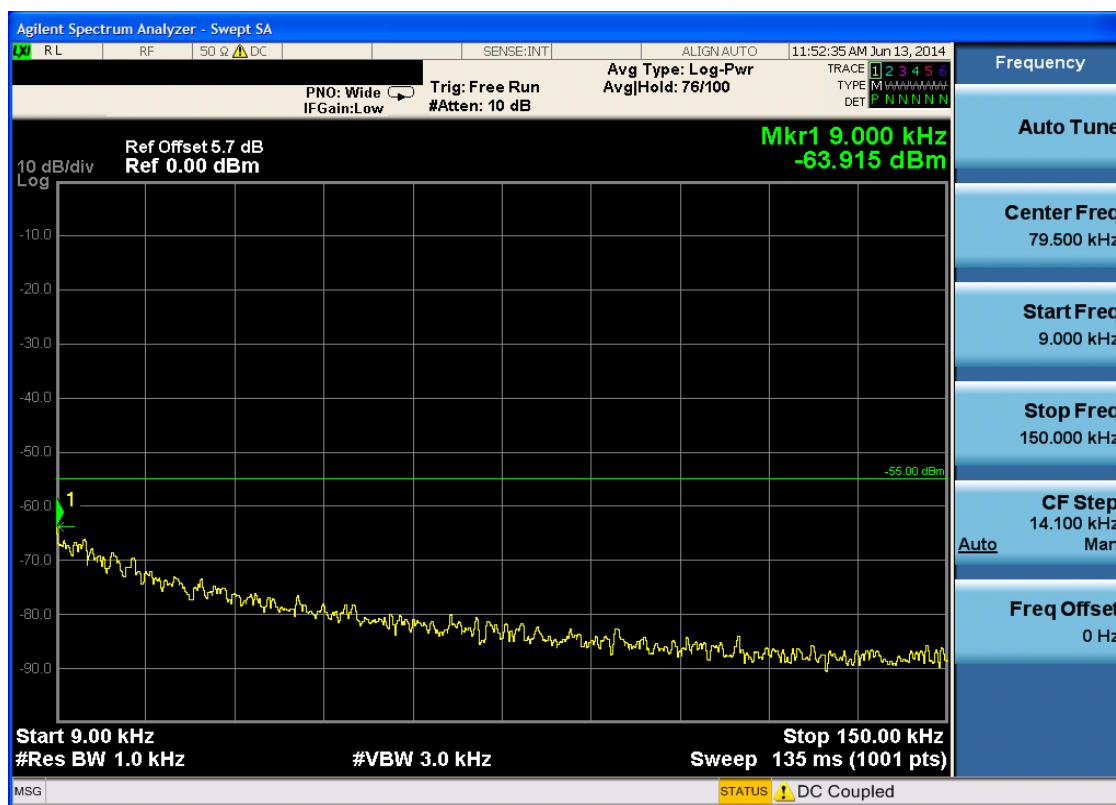


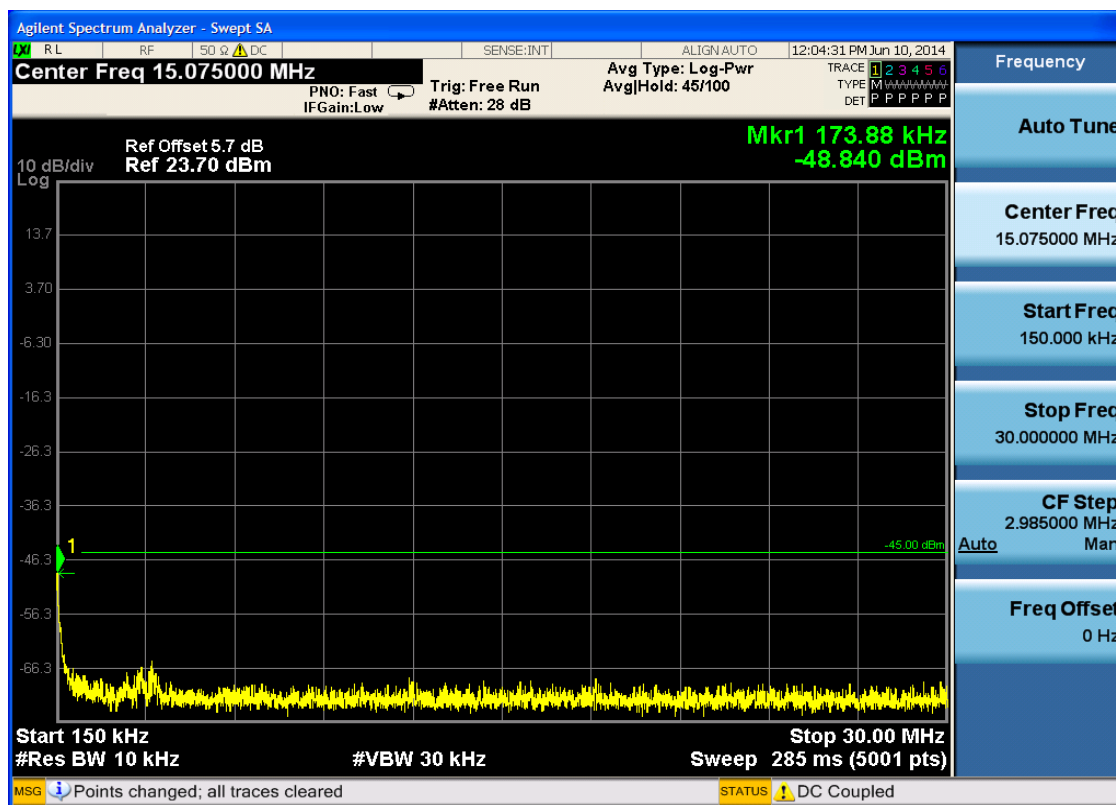


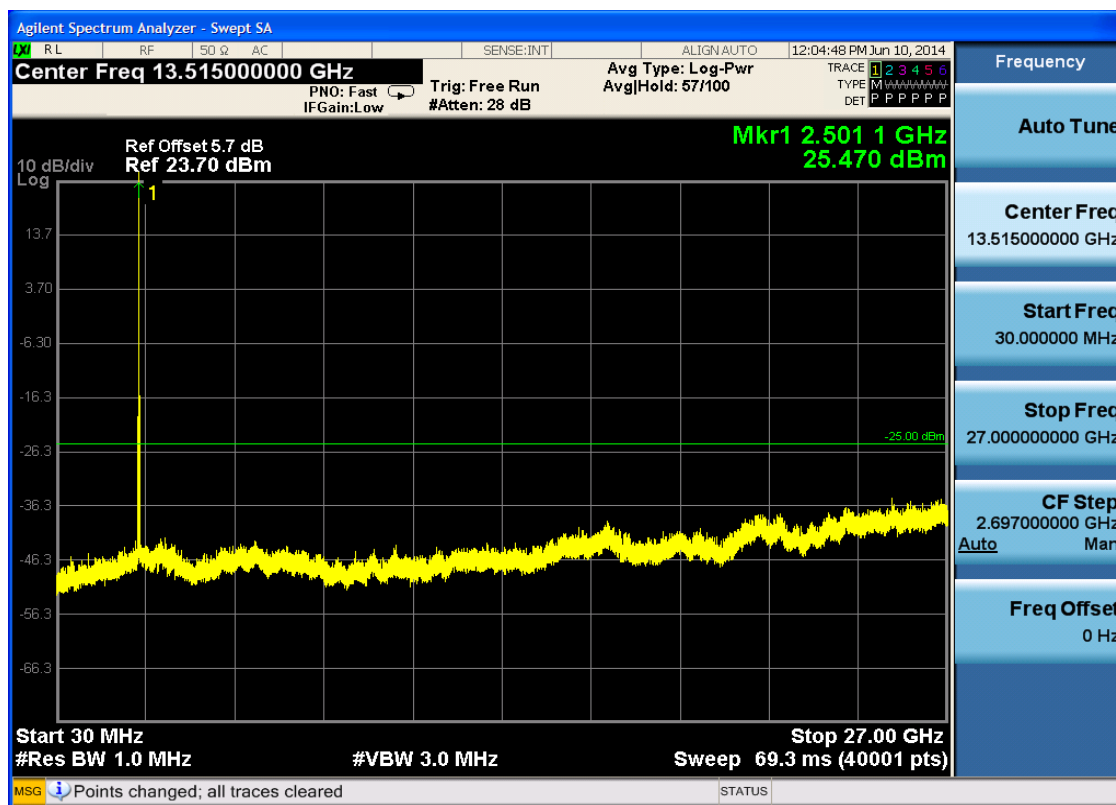
### 6.3.2.2.4 Test Bandwidth = 20

#### 6.3.2.2.4.1 Test Channel = LCH

##### 6.3.2.2.4.1.1 Test RB = RB1#0

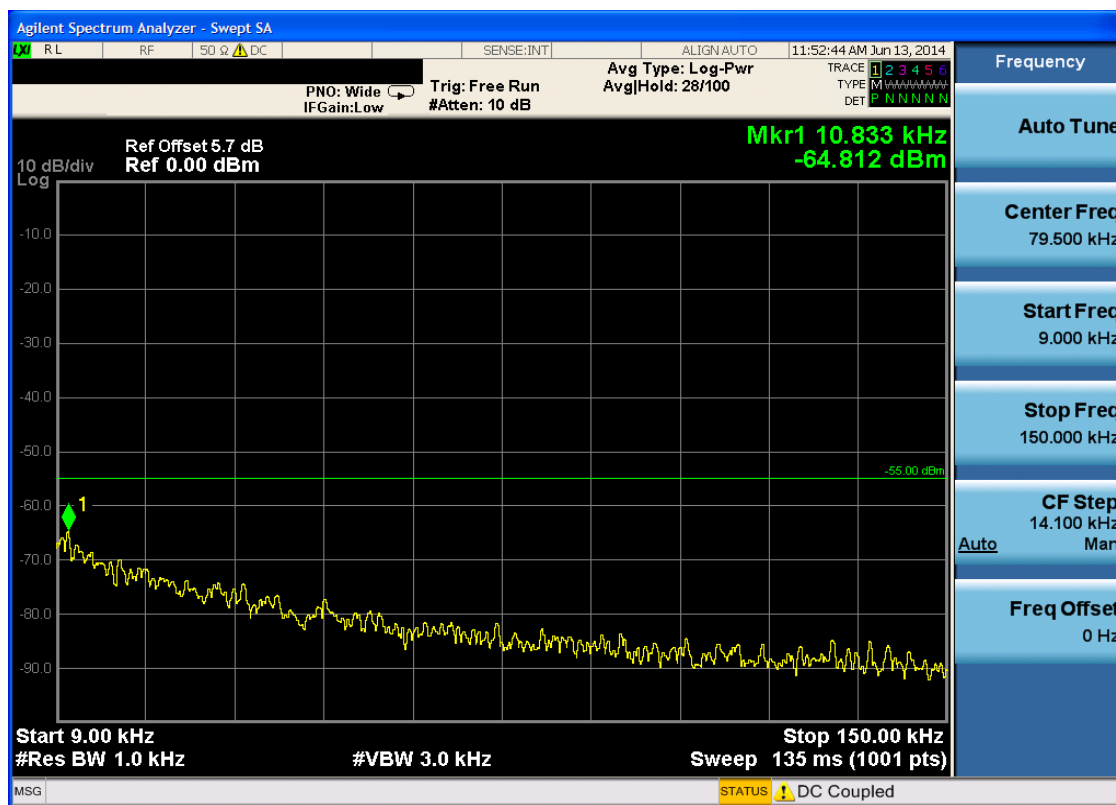


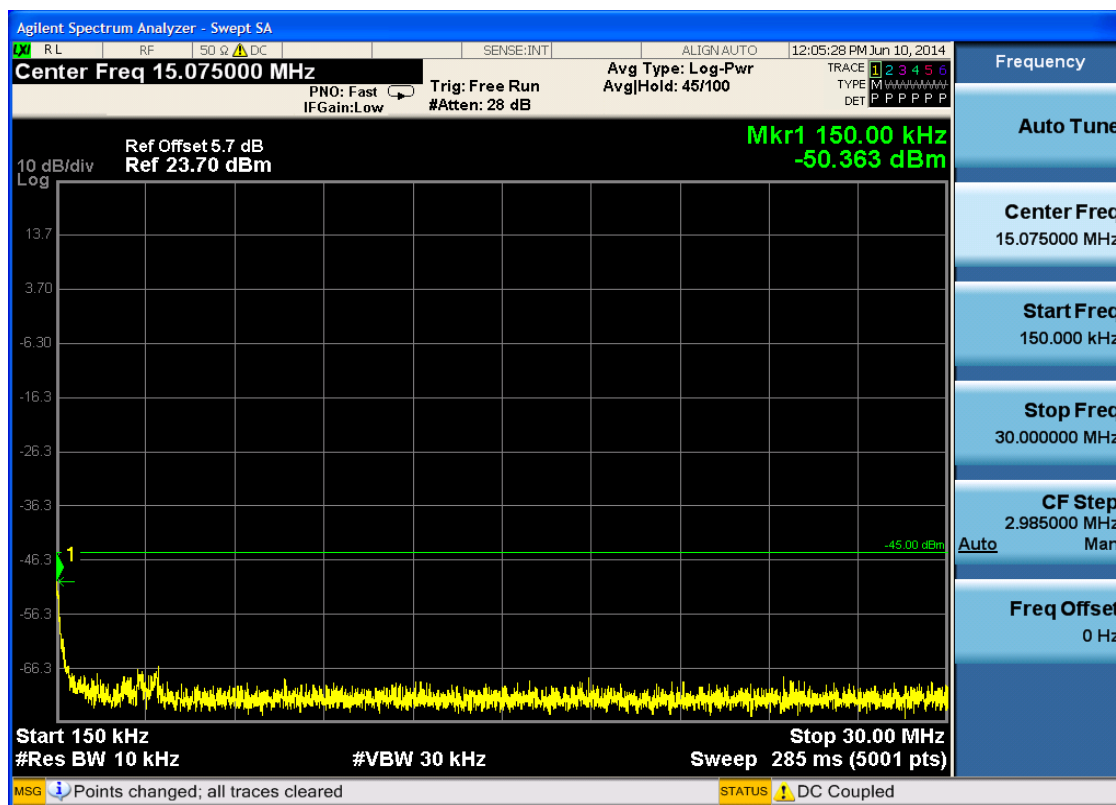


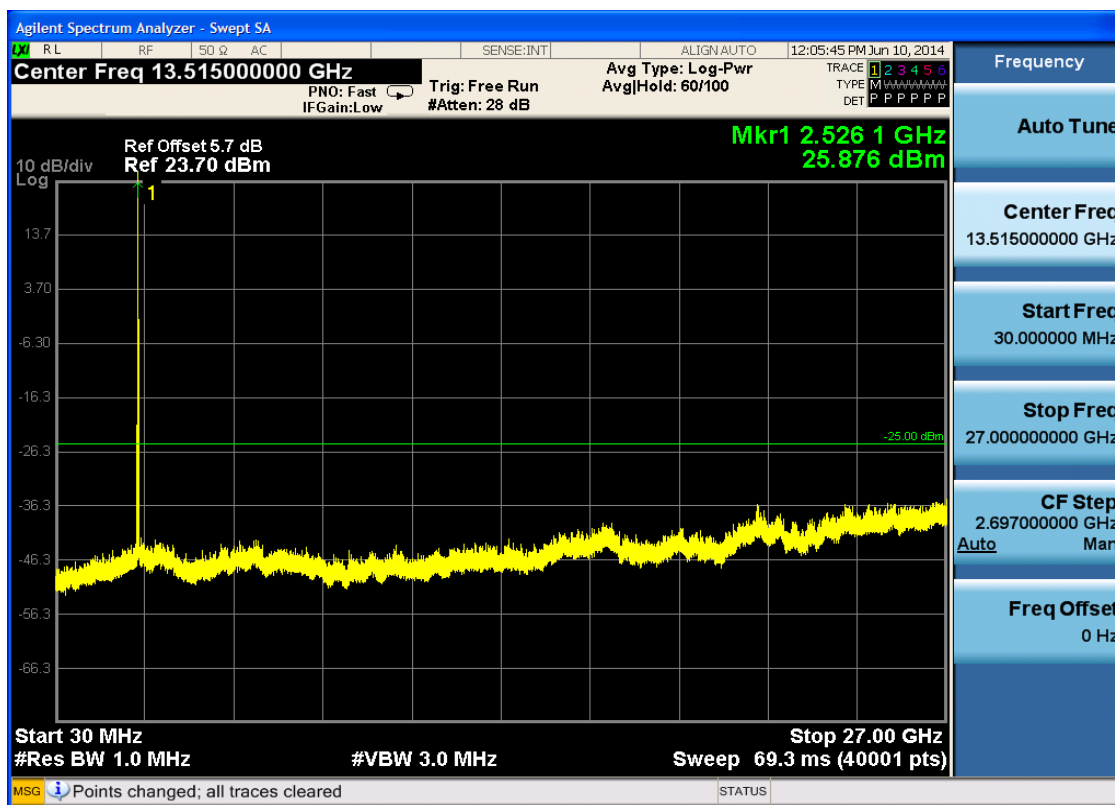


#### 6.3.2.2.4.2 Test Channel = MCH

#### 6.3.2.2.4.2.1 Test RB = RB1#0

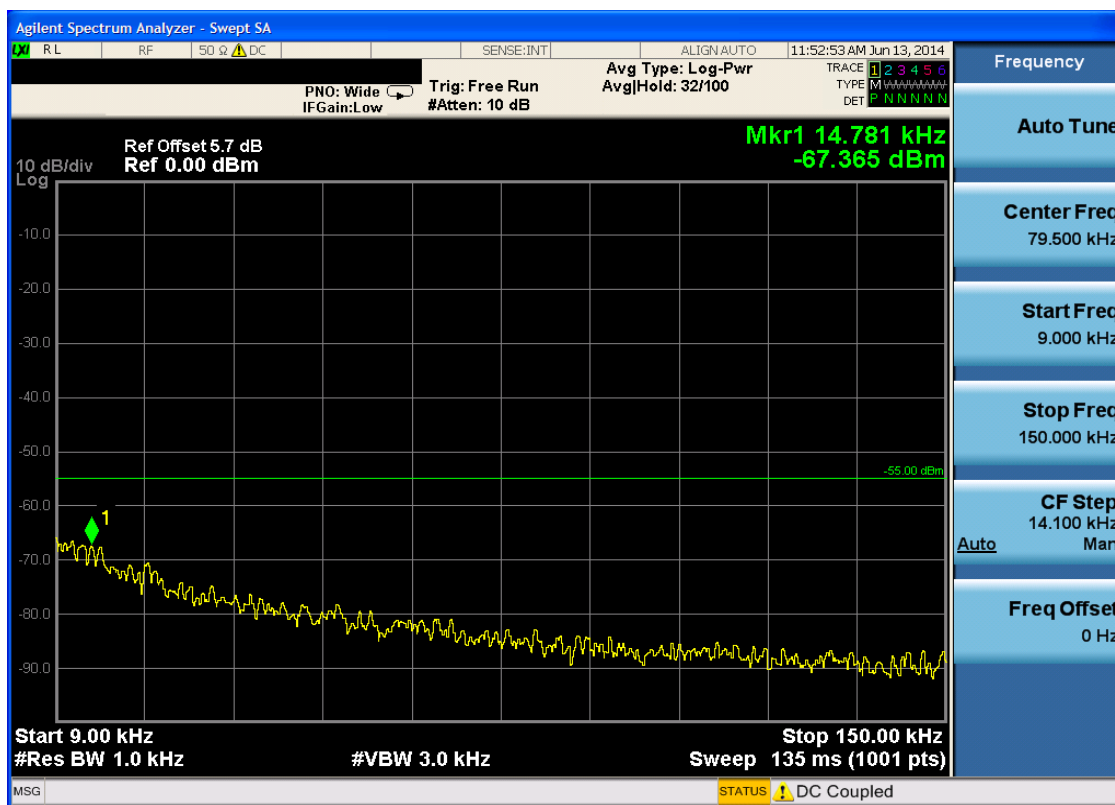


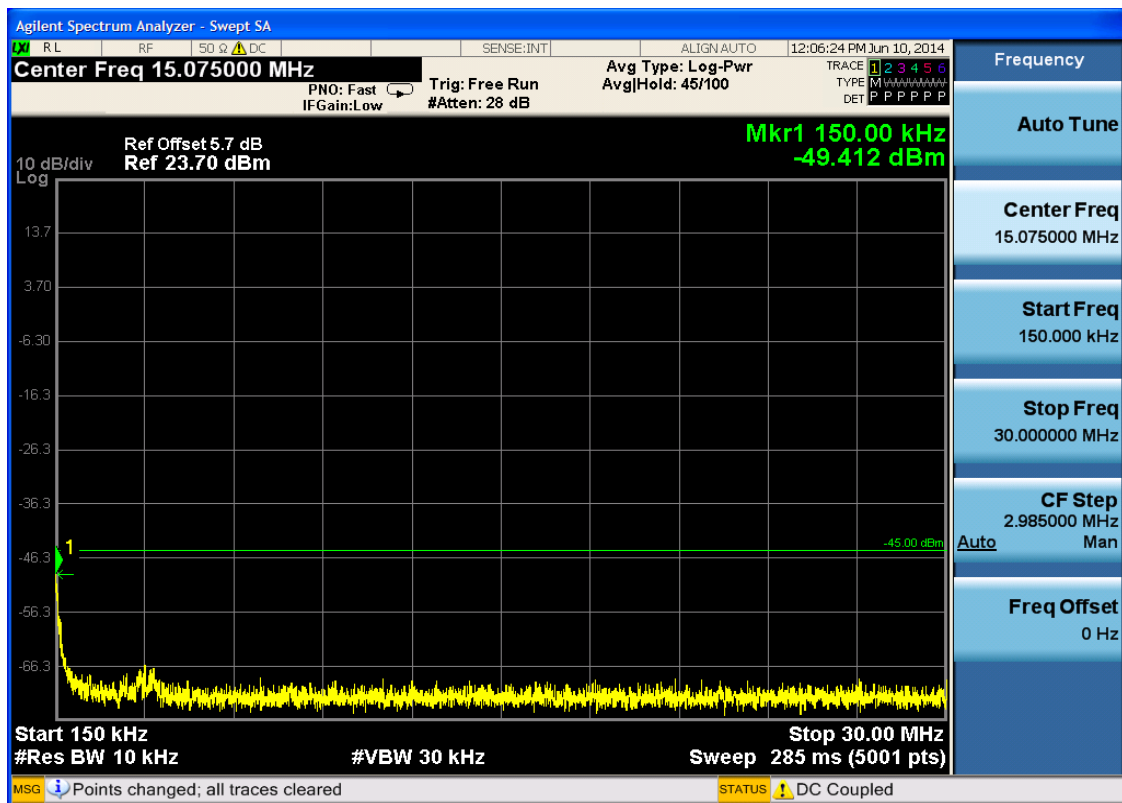


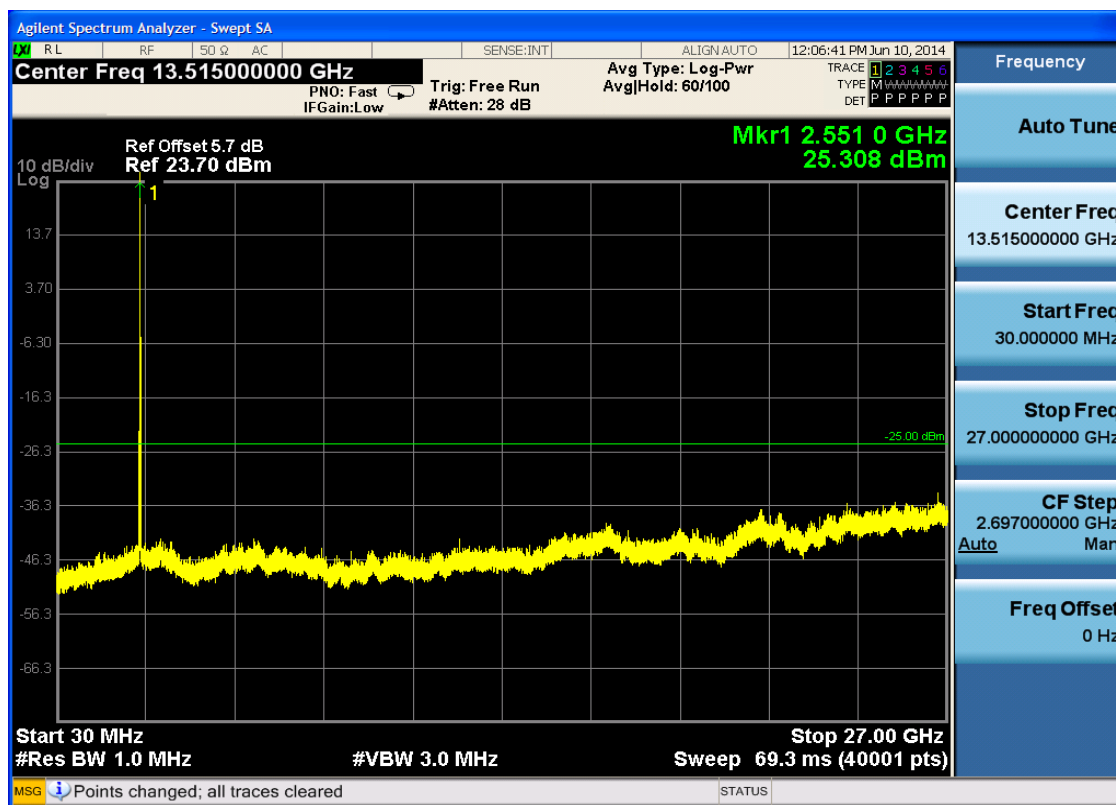


### 6.3.2.2.4.3 Test Channel = HCH

#### 6.3.2.2.4.3.1 Test RB = RB1#0







## 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

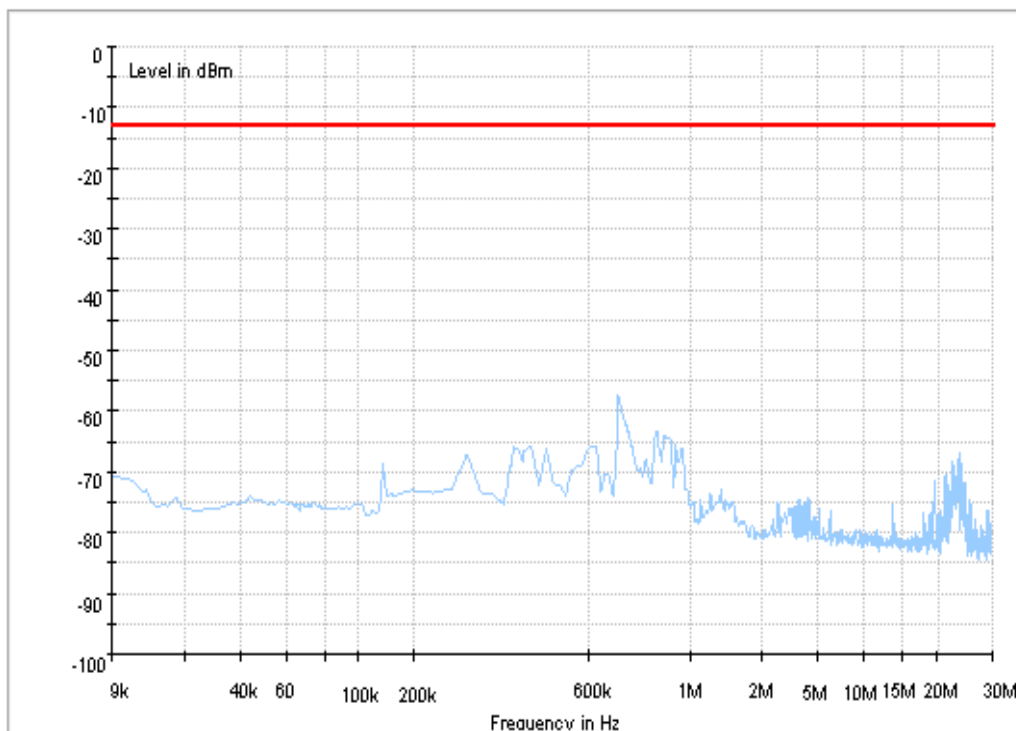
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

### Part I - Test Plots

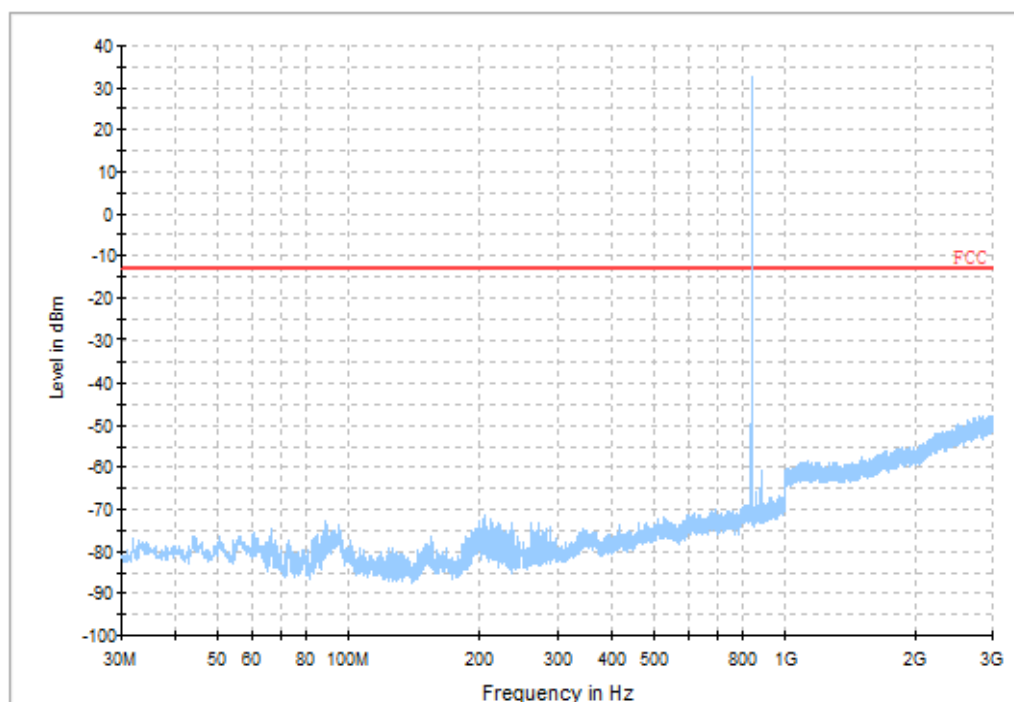
#### 7.1 For GSM

##### 7.1.1 Test Band = GSM850

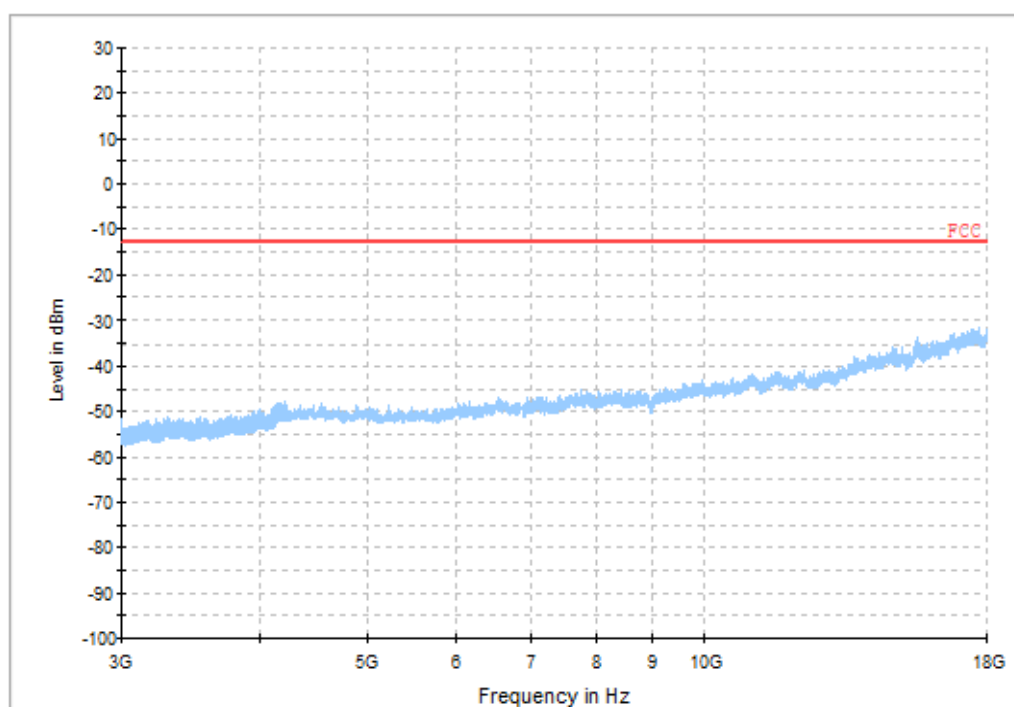
##### 7.1.1.1 Test Mode = GSM/TM1



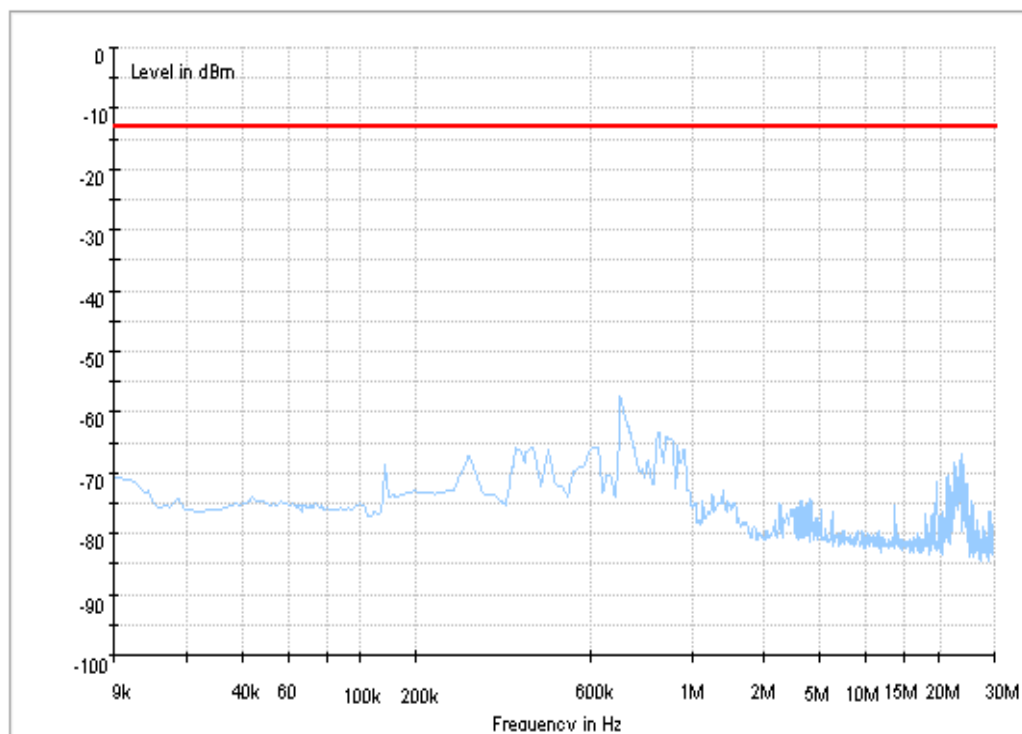
Copy of FCC PART22 GSM850\_L



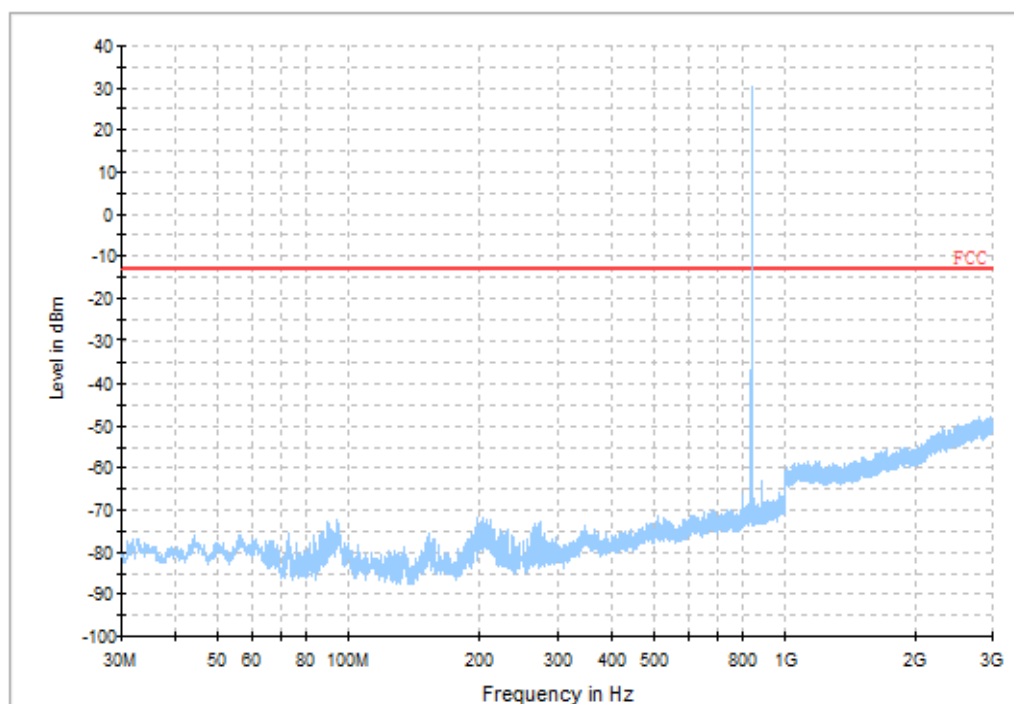
Copy of FCC PART22 GSM850\_H



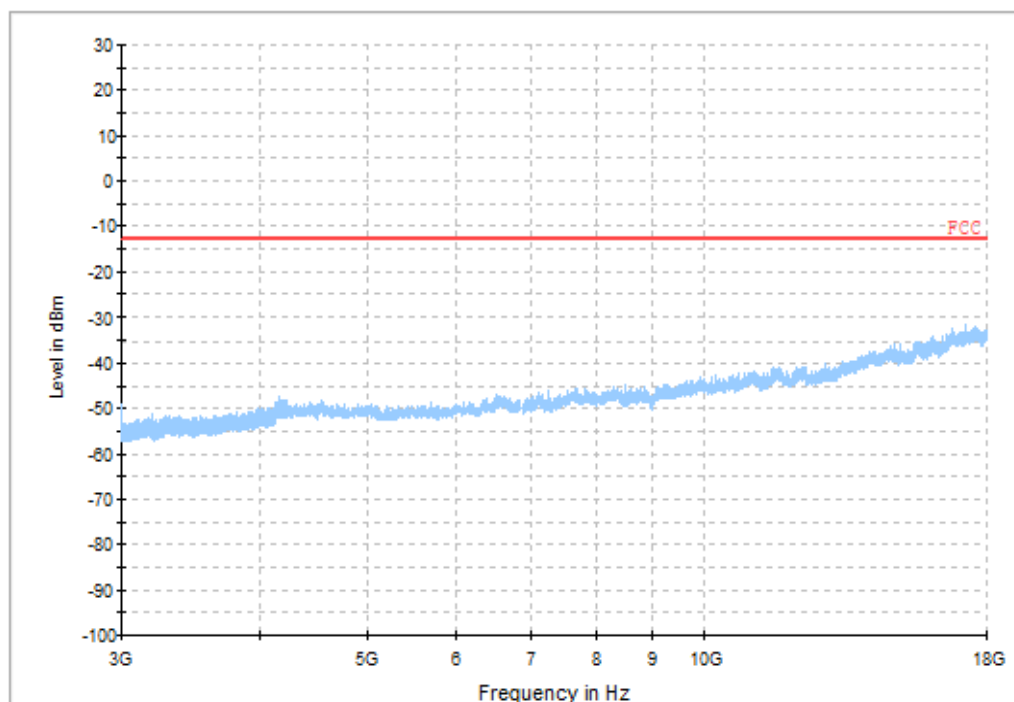
### 7.1.1.2 Test Mode = GSM/TM2



Copy of FCC PART22 GSM850\_L

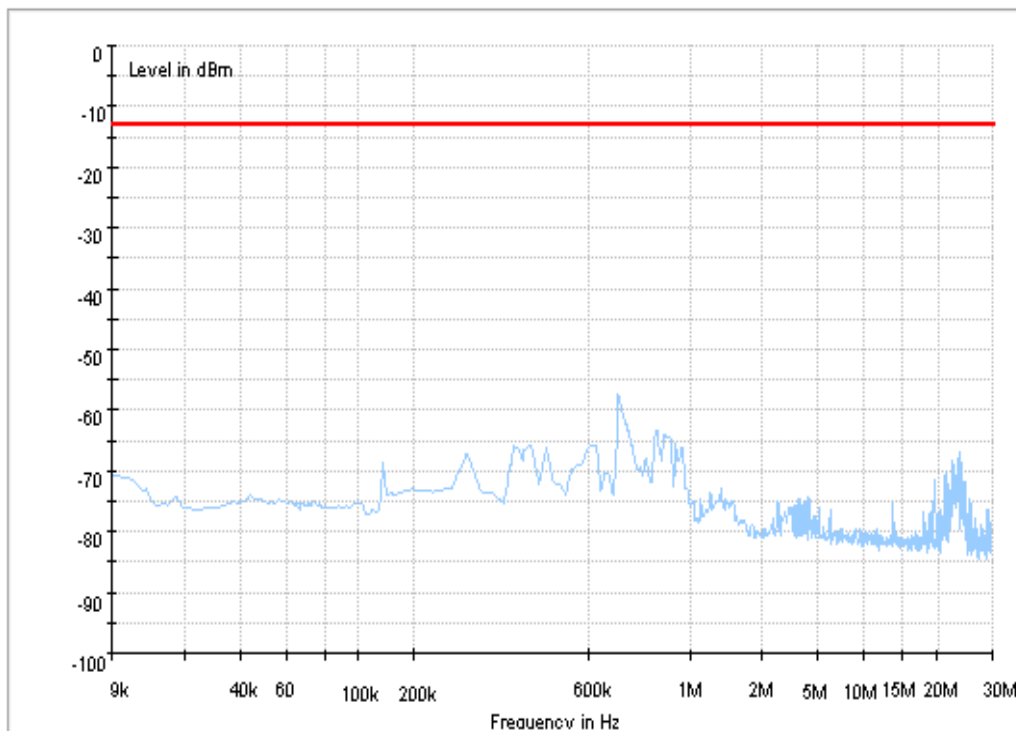


Copy of FCC PART22 GSM850\_H

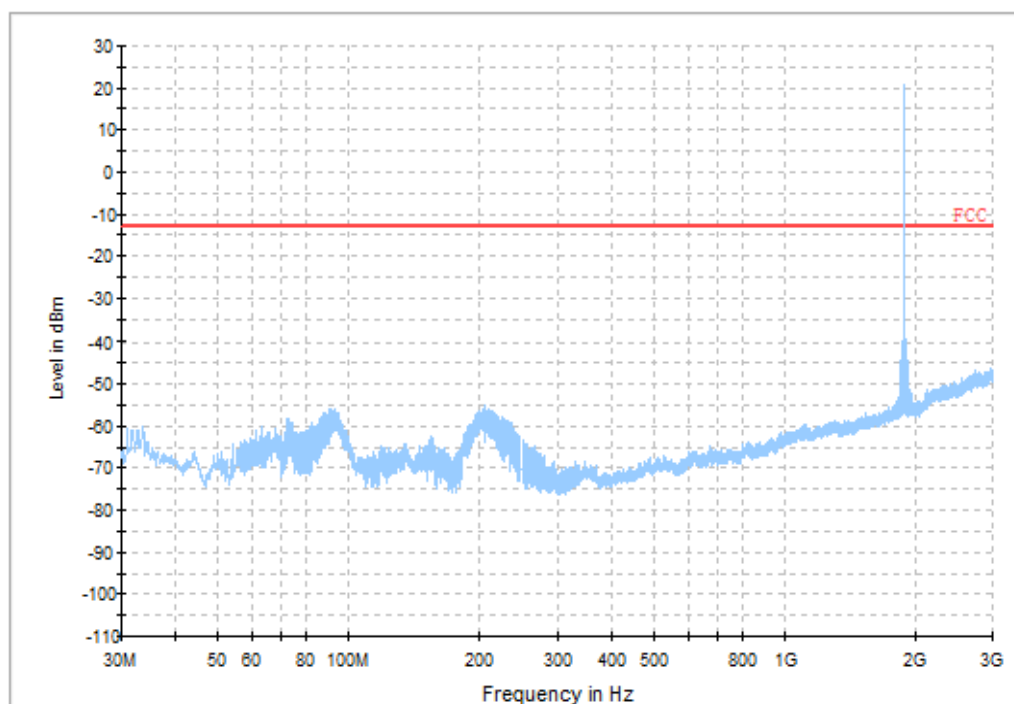


### 7.1.2 Test Band = GSM1900

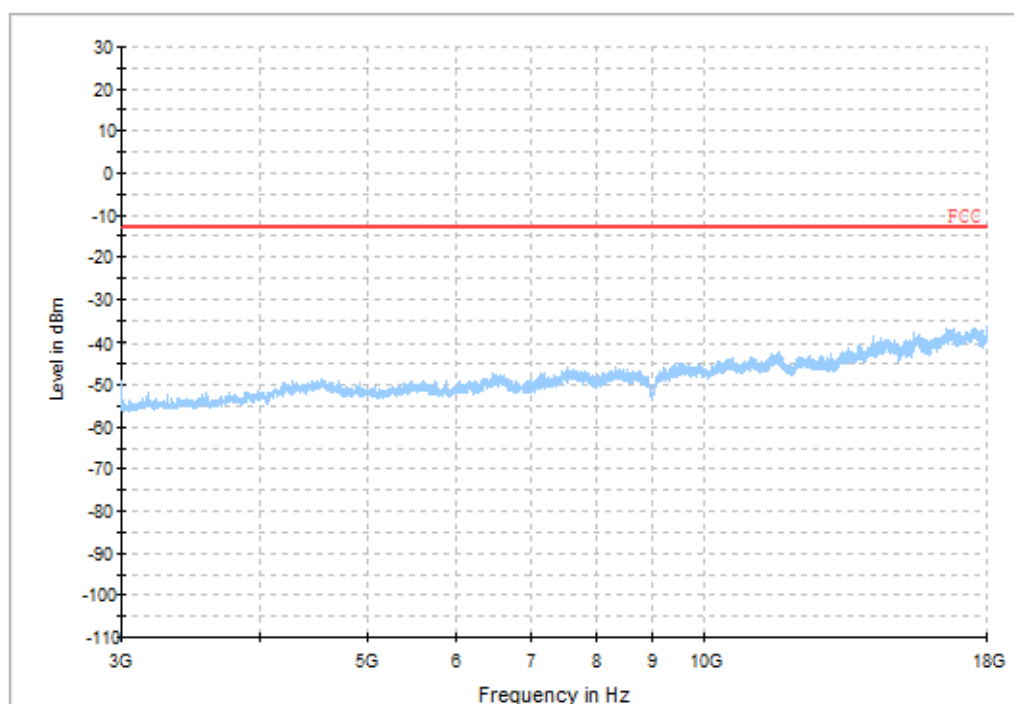
#### 7.1.2.1 Test Mode = GSM/TM1

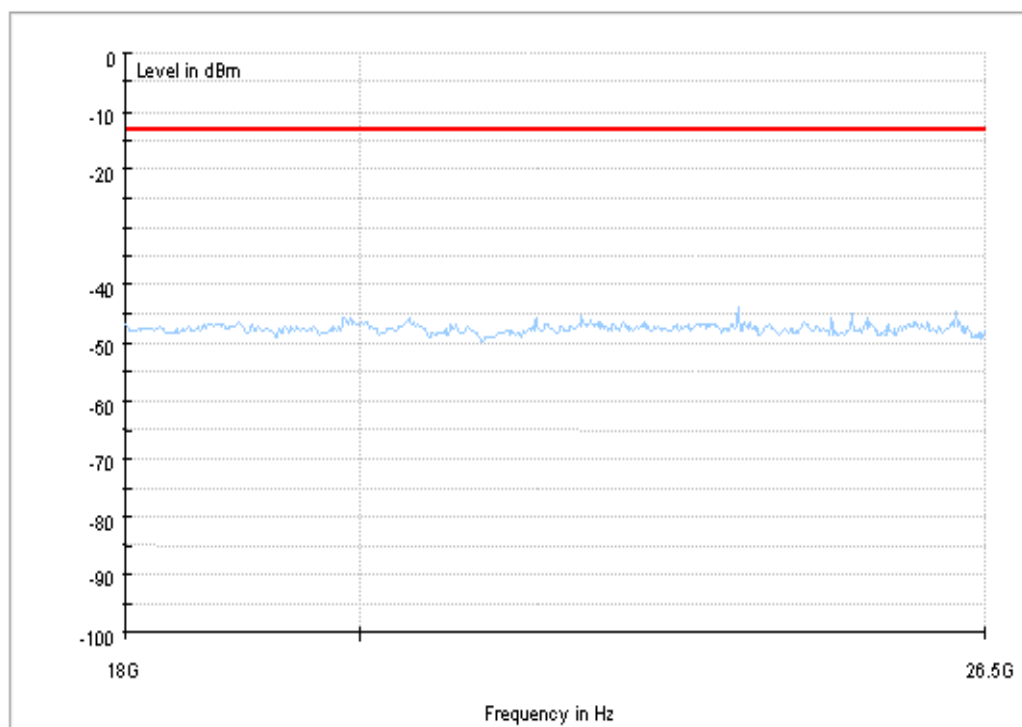


Copy of FCC PART24 GSM1900\_L

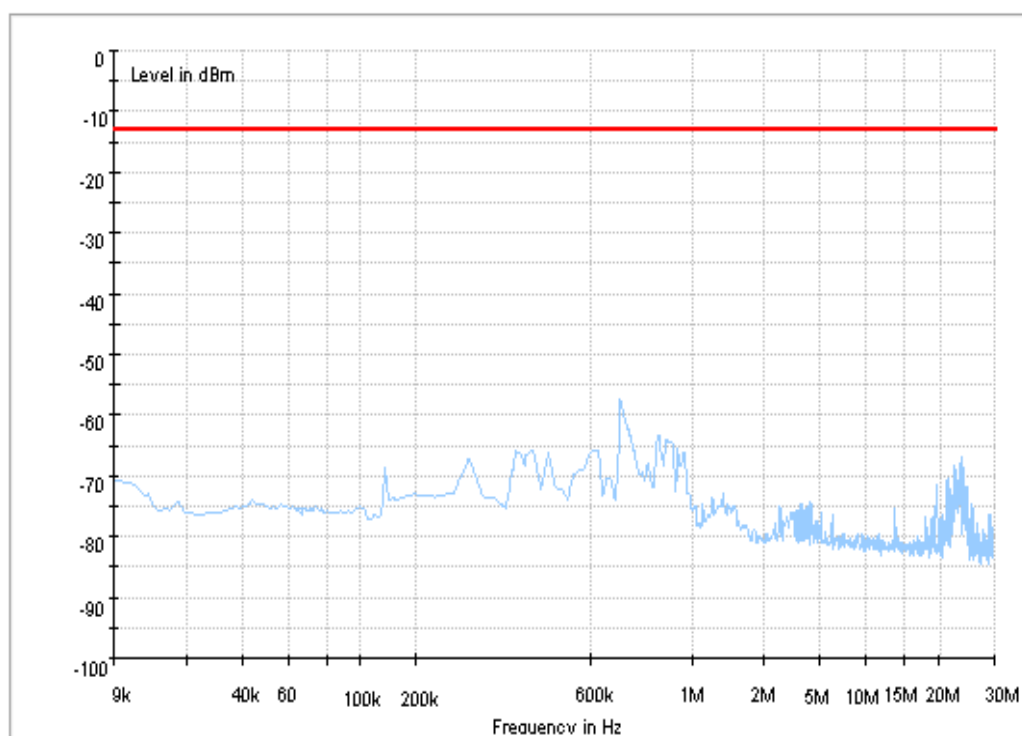


Copy of FCC PART24 GSM1900\_H

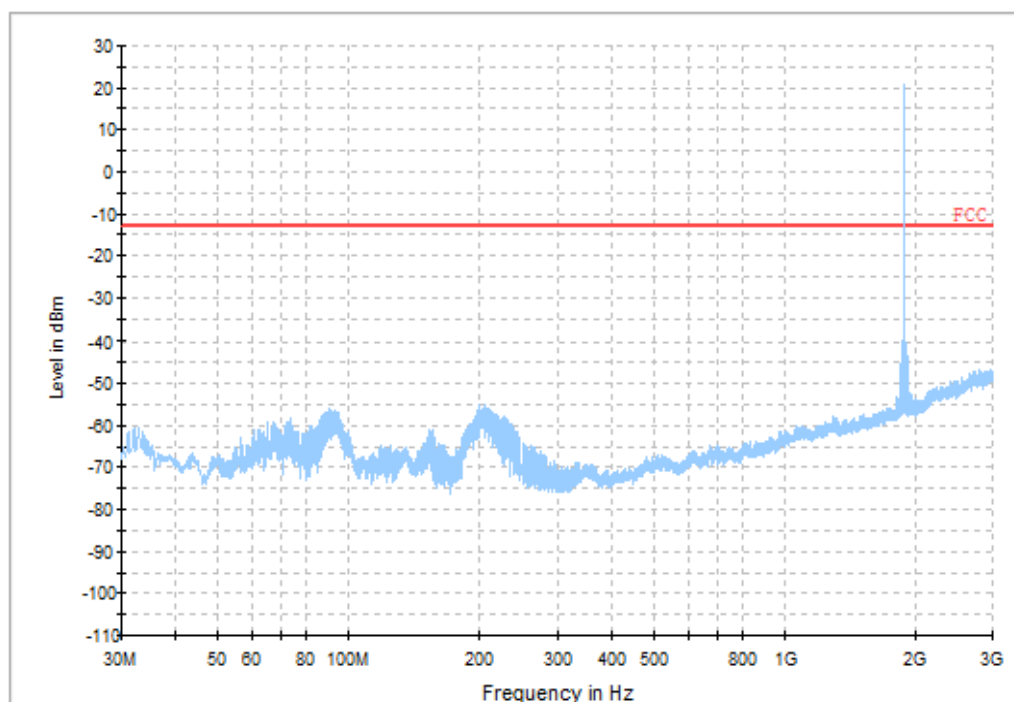




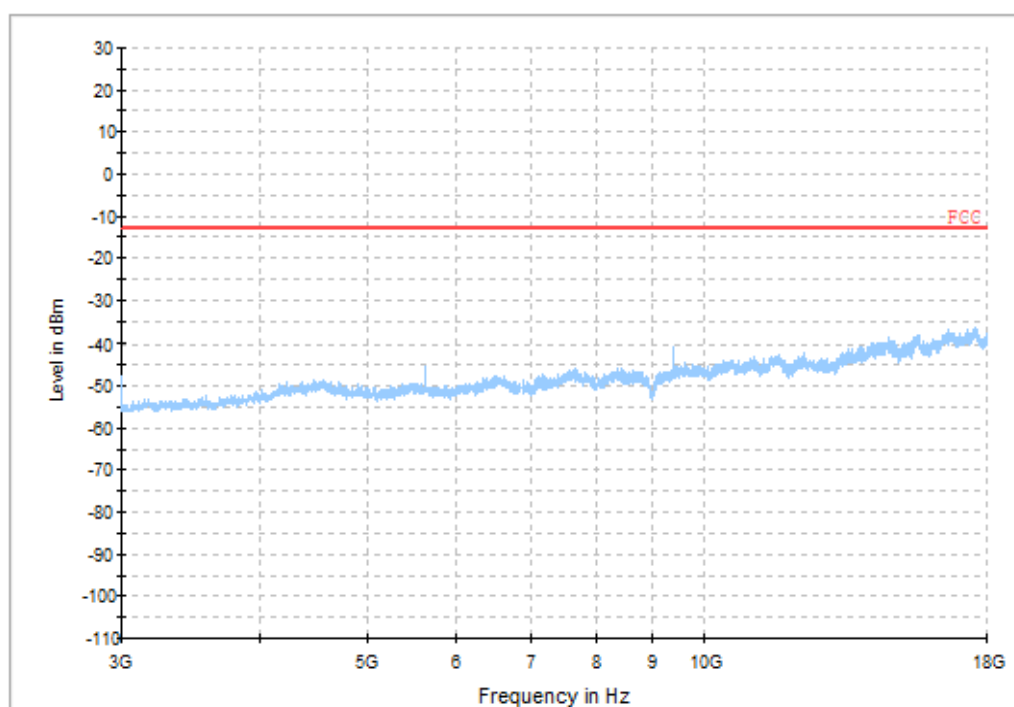
### 7.1.2.2 Test Mode = GSM/TM2

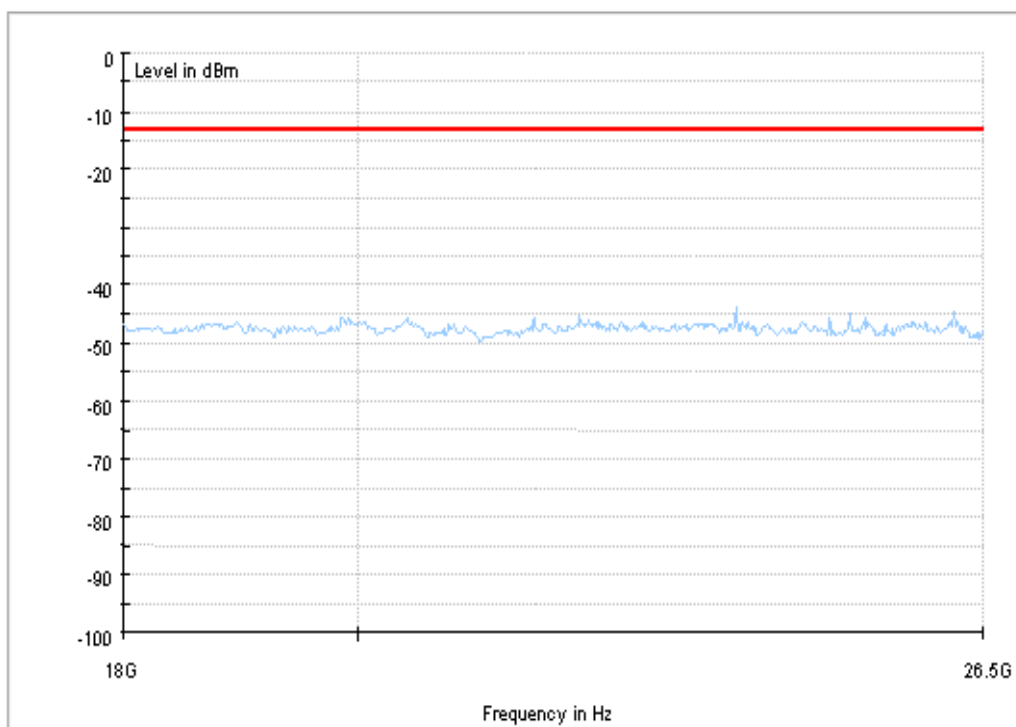


Copy of FCC PART24 GSM1900\_L



Copy of FCC PART24 GSM1900\_H

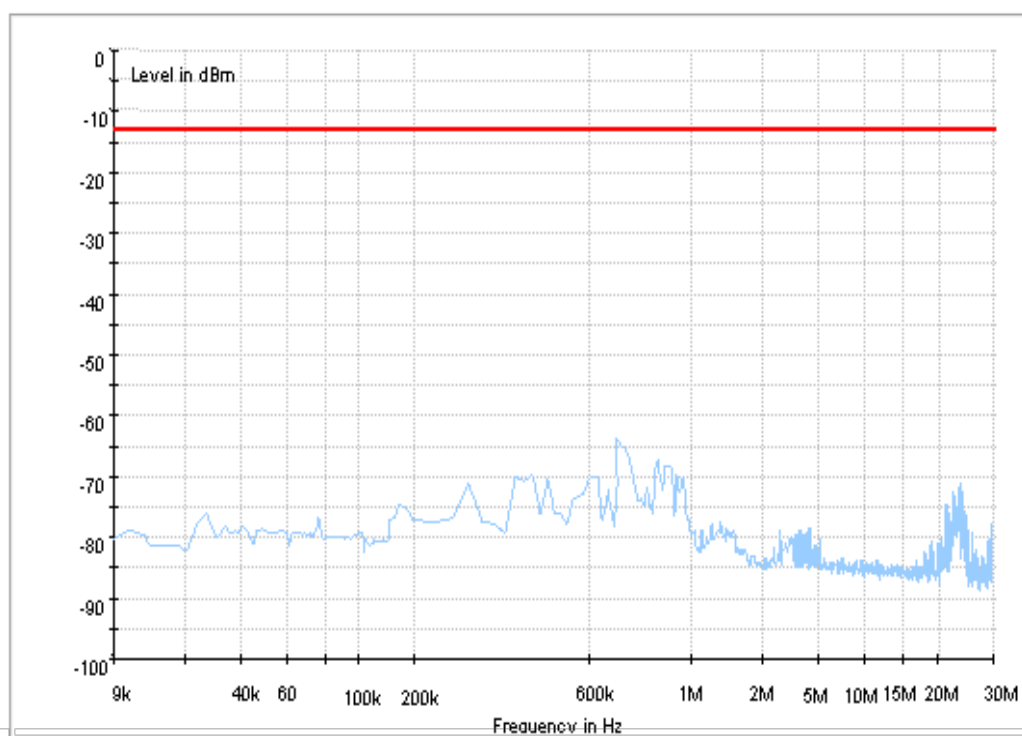




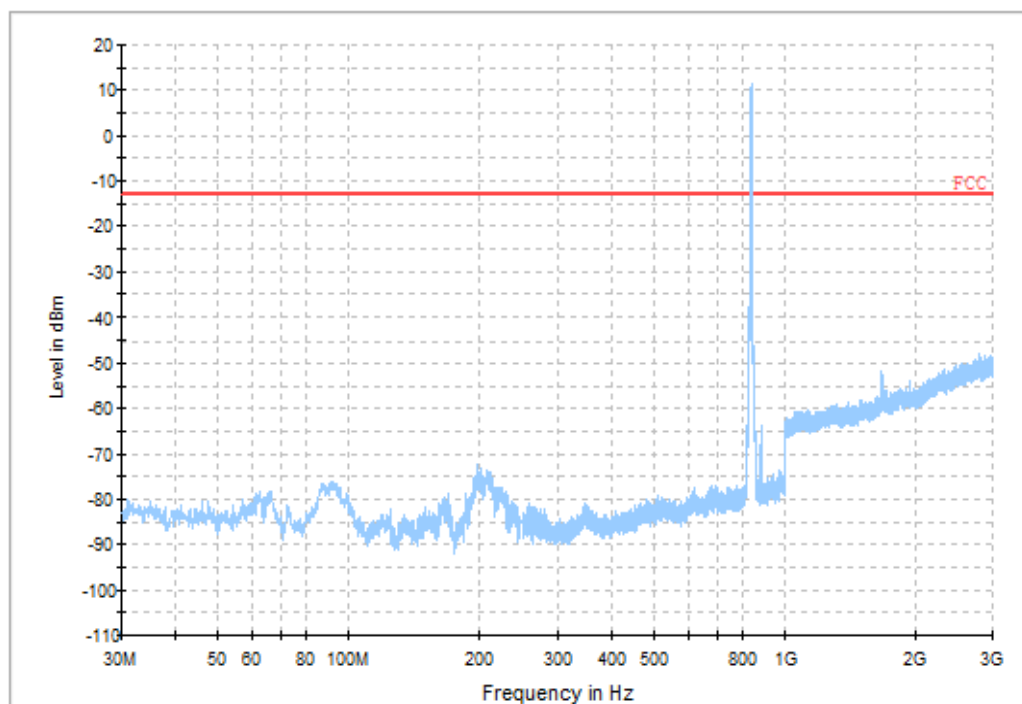
## 7.2 For UMTS

### 7.2.1 Test Band = WCDMA850

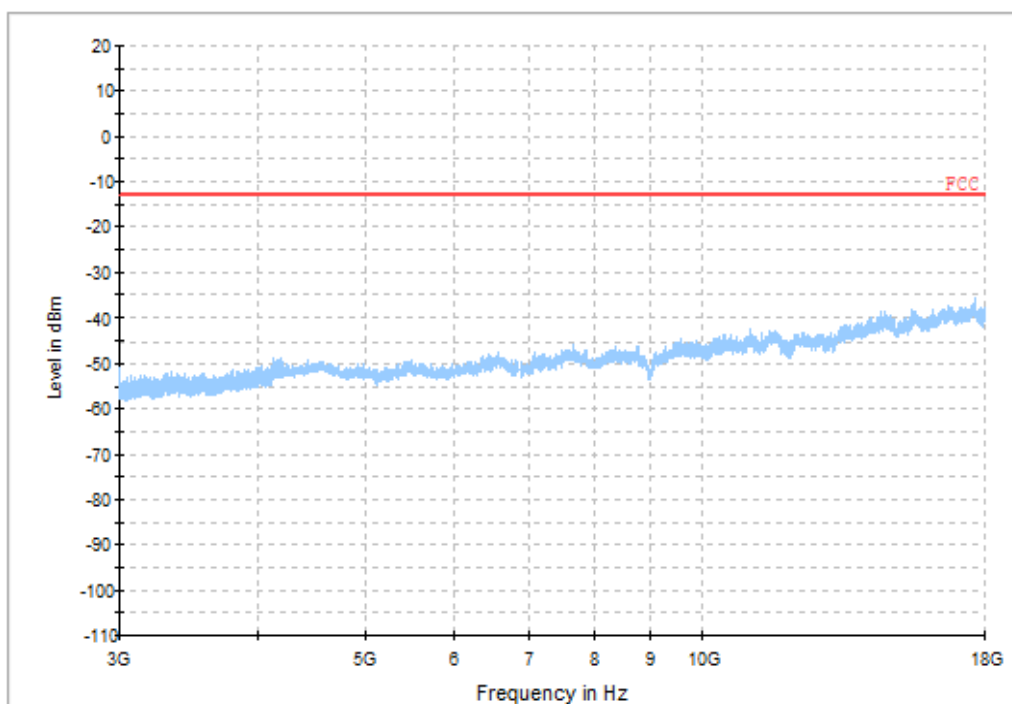
#### 7.2.1.1 Test Mode = UMTS/TM1



Copy of FCC PART22 WCDMA850\_L

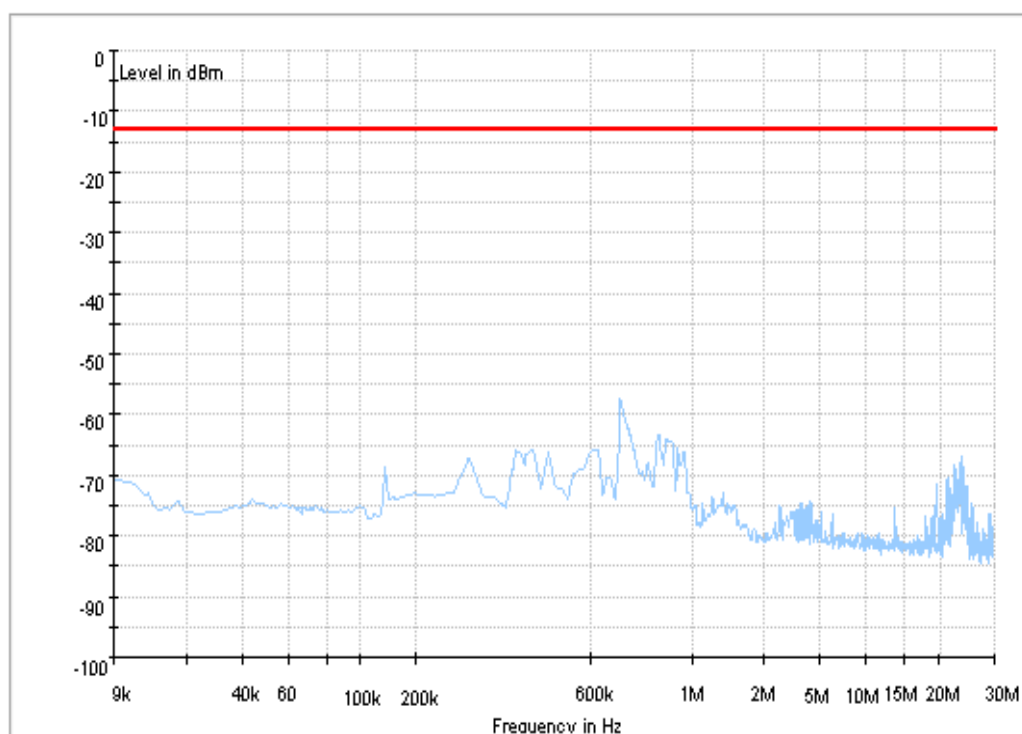


Copy of FCC PART22 WCDMA850\_H

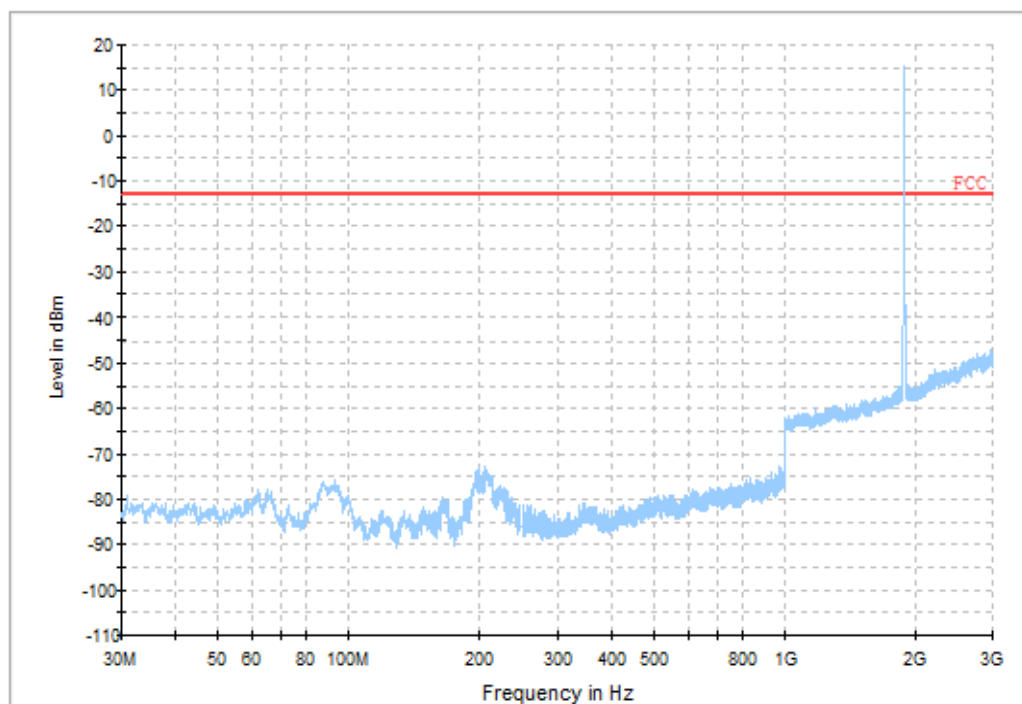


## 7.2.2 Test Band = WCDMA1900

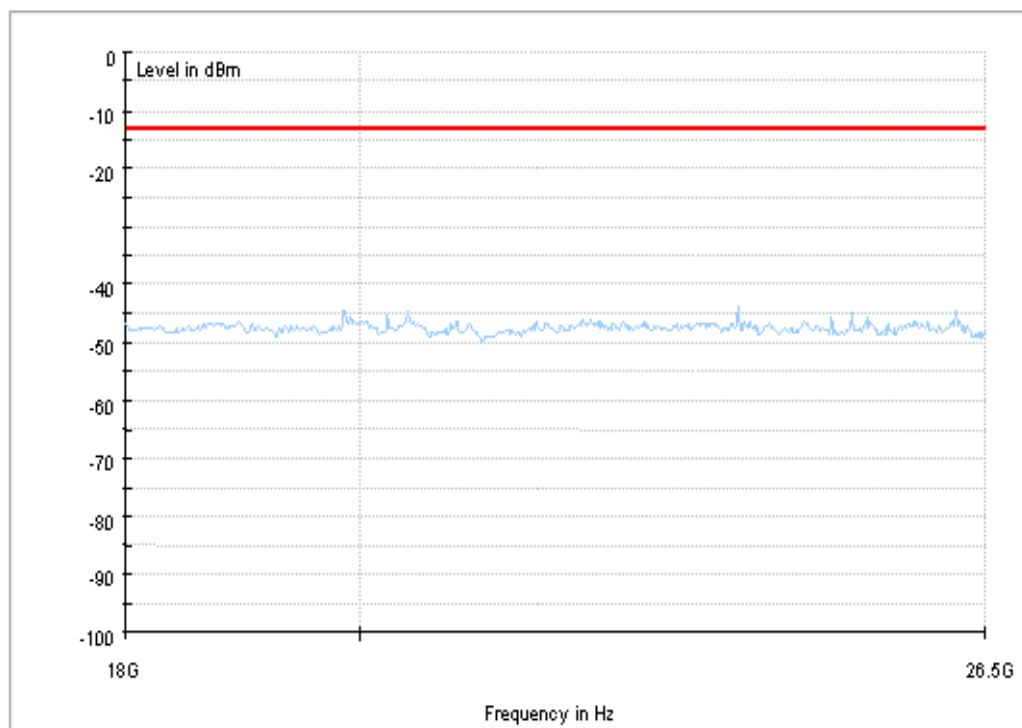
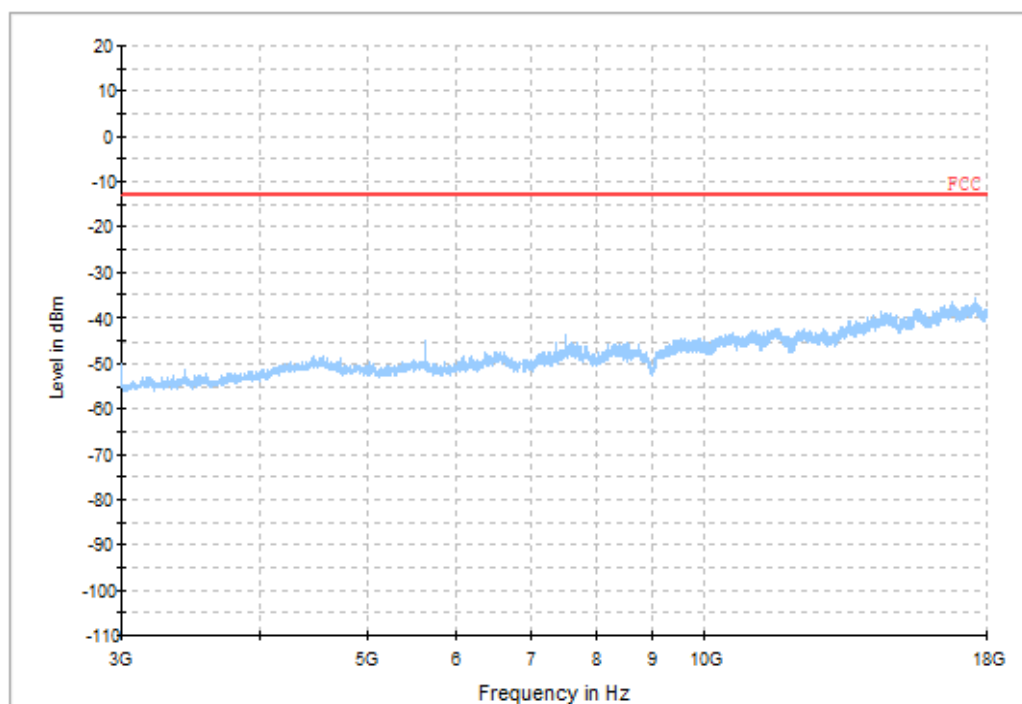
### 7.2.2.1 Test Mode = UMTS/TM1



Copy of FCC PART24 WCDMA1900\_L



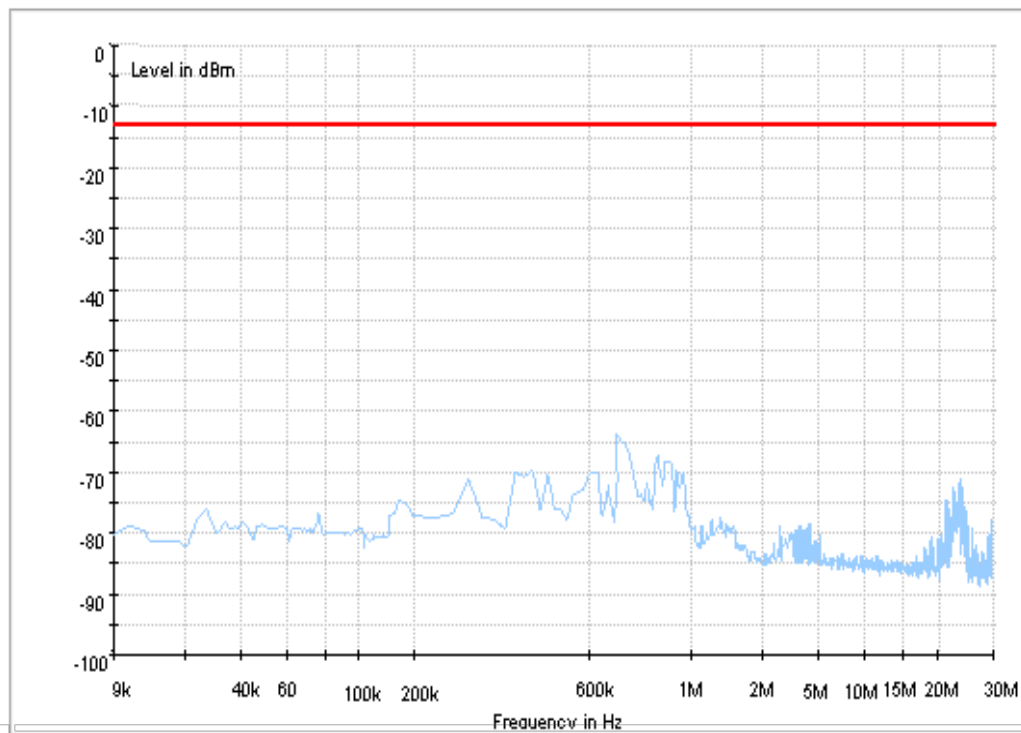
Copy of FCC PART24 WCDMA1900\_H



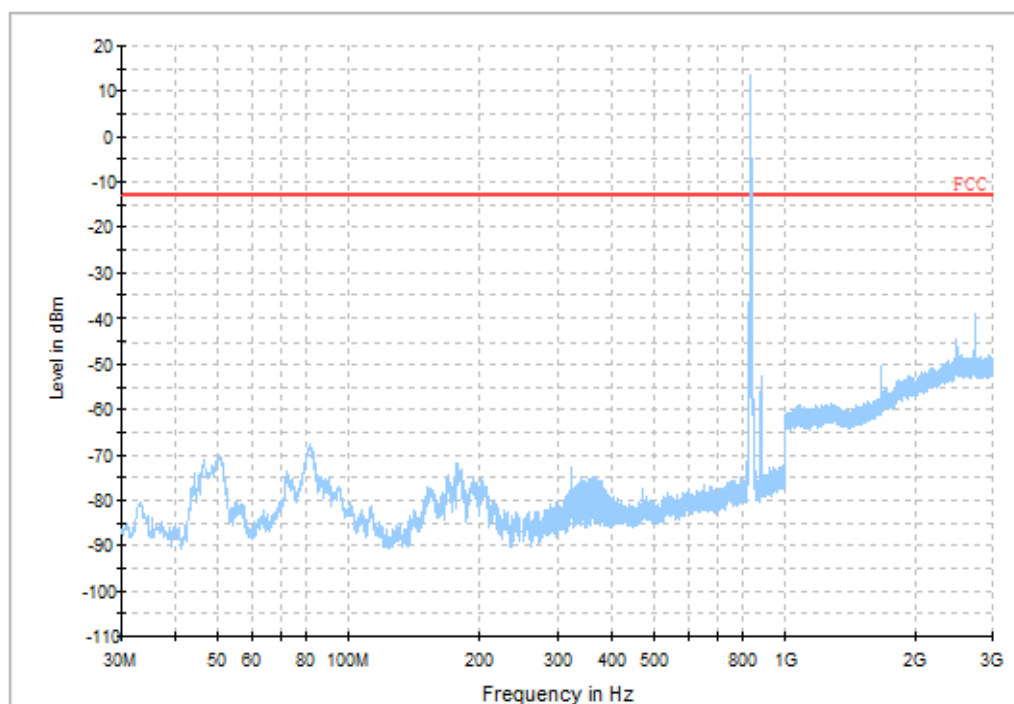
### 7.3 For LTE

#### 7.3.1 Test Band = BAND5

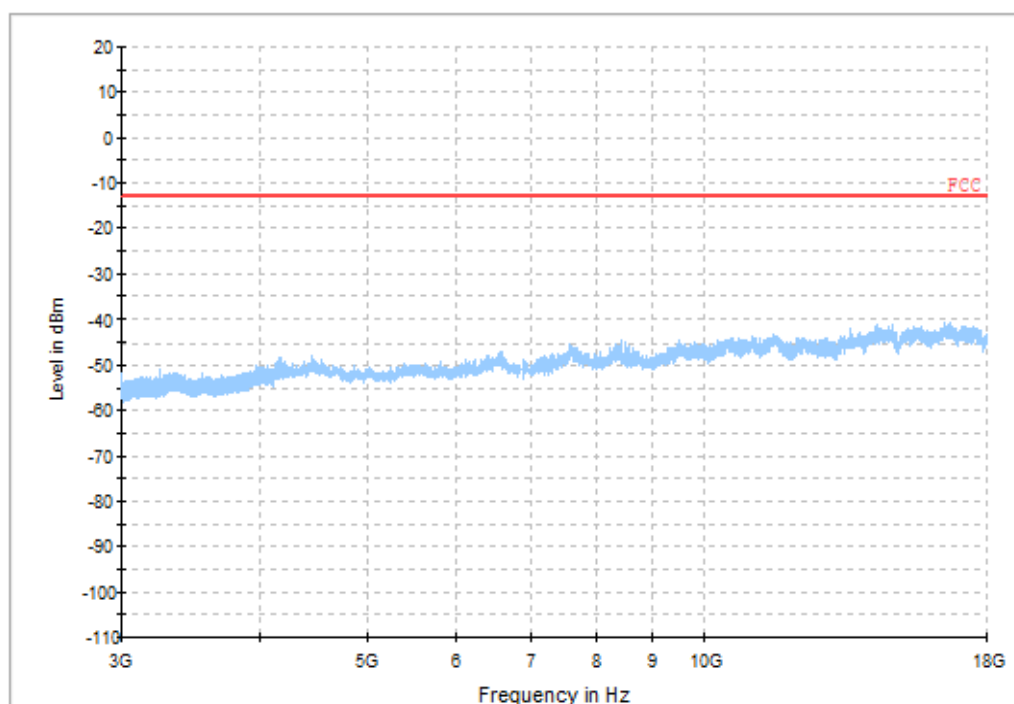
##### 7.3.1.1 Test Bandwidth = 5



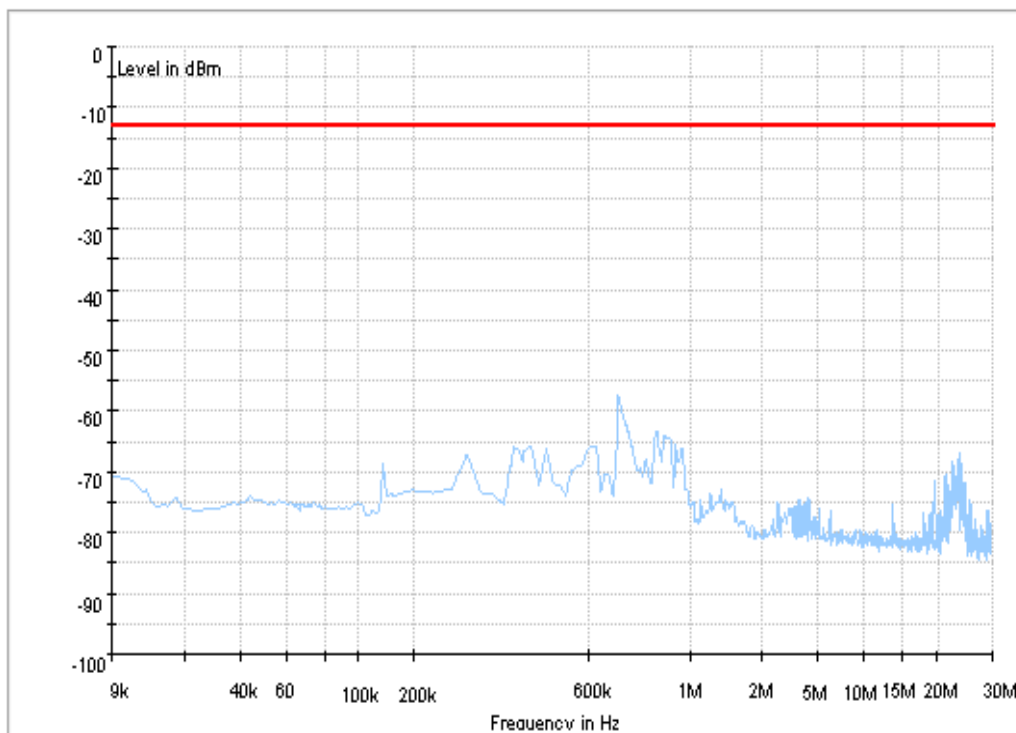
Copy of FCC PART22 LTE Band 5\_L



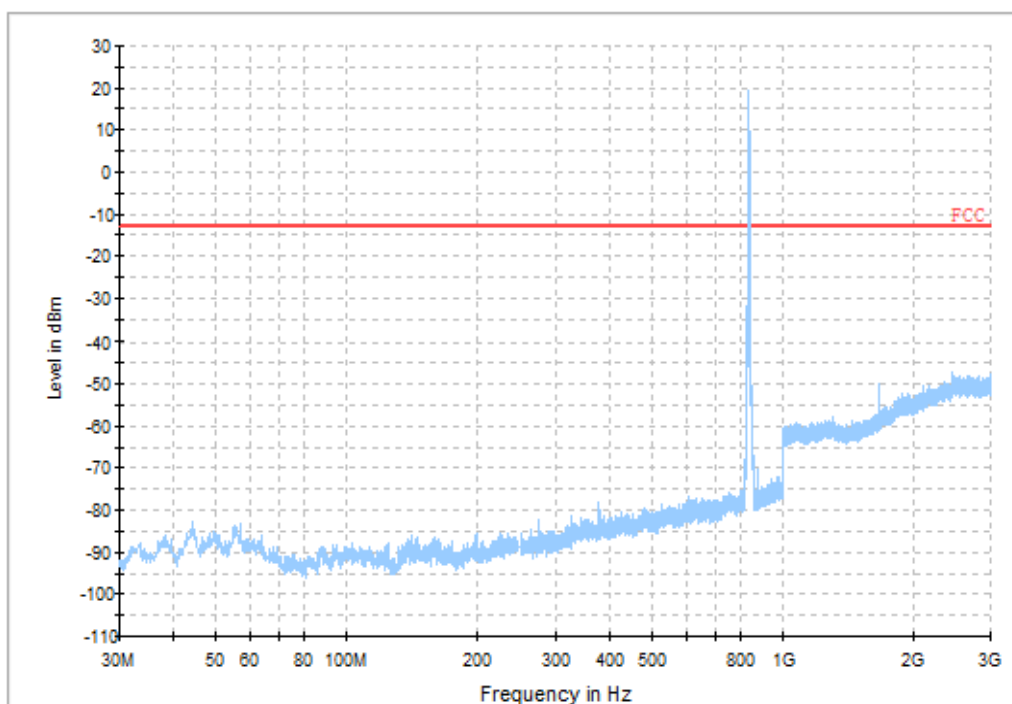
Copy of FCC PART22 LTE Band 5\_H



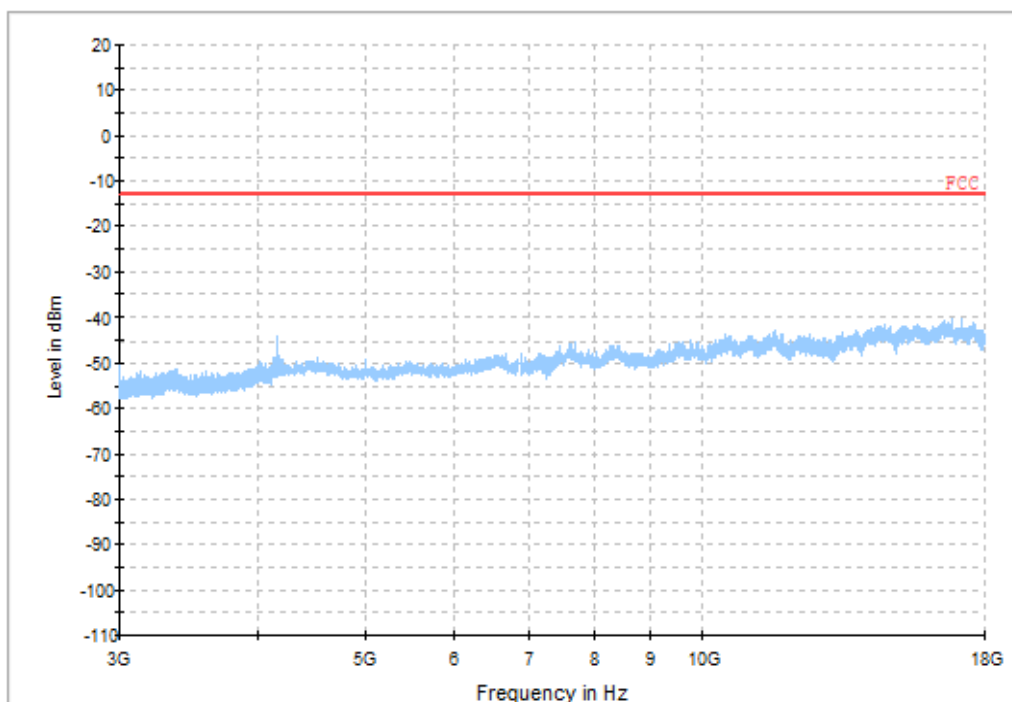
### 7.3.1.2 Test Bandwidth = 10



Copy of FCC PART22 LTE Band 5\_L

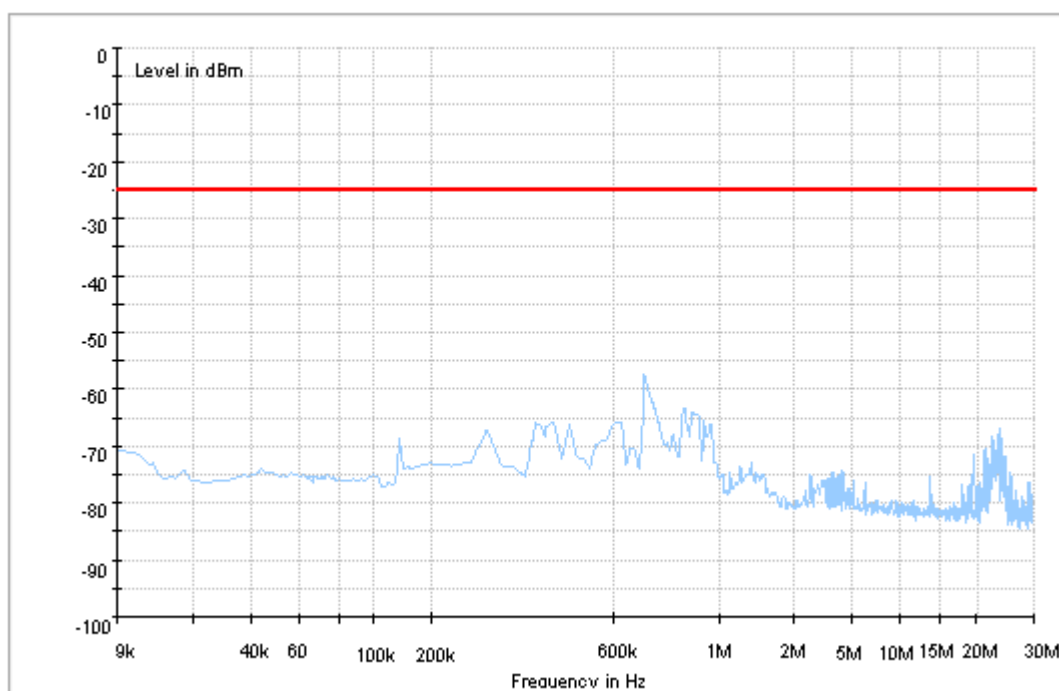


Copy of FCC PART22 LTE Band 5\_H

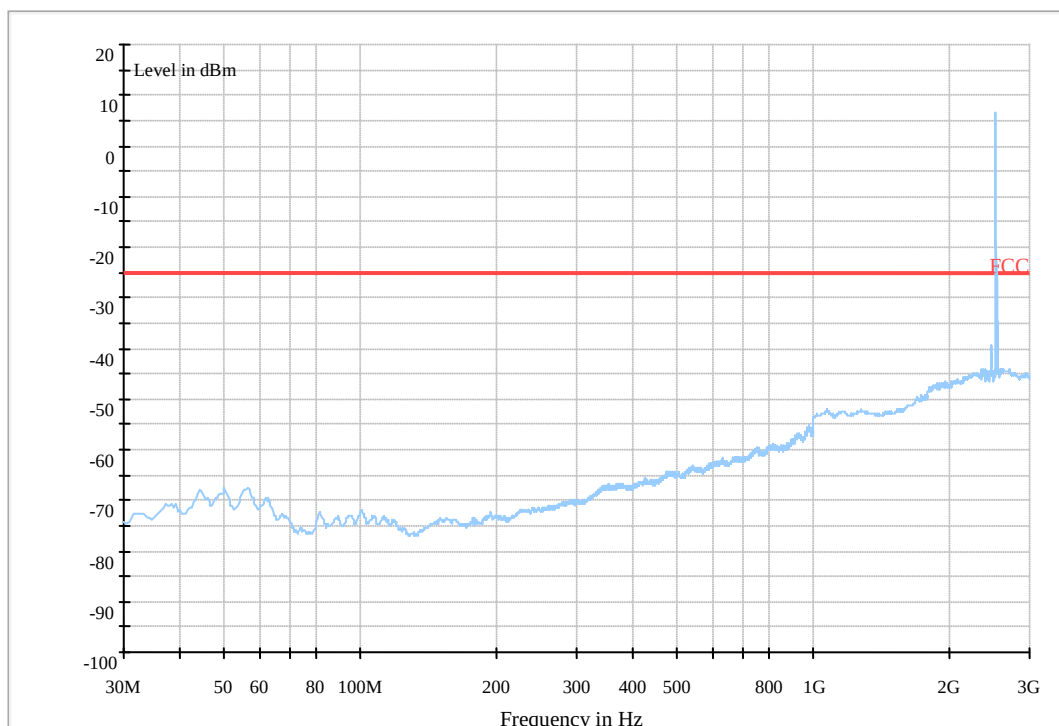


### 7.3.2 Test Band = BAND7

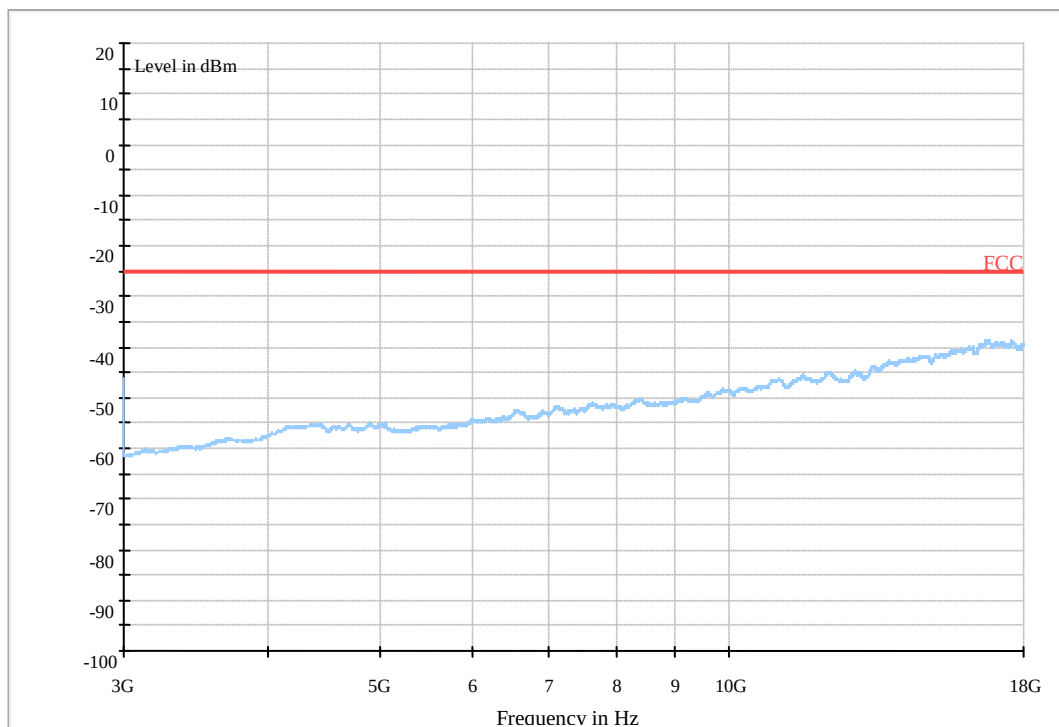
#### 7.3.2.1 Test Bandwidth = 5

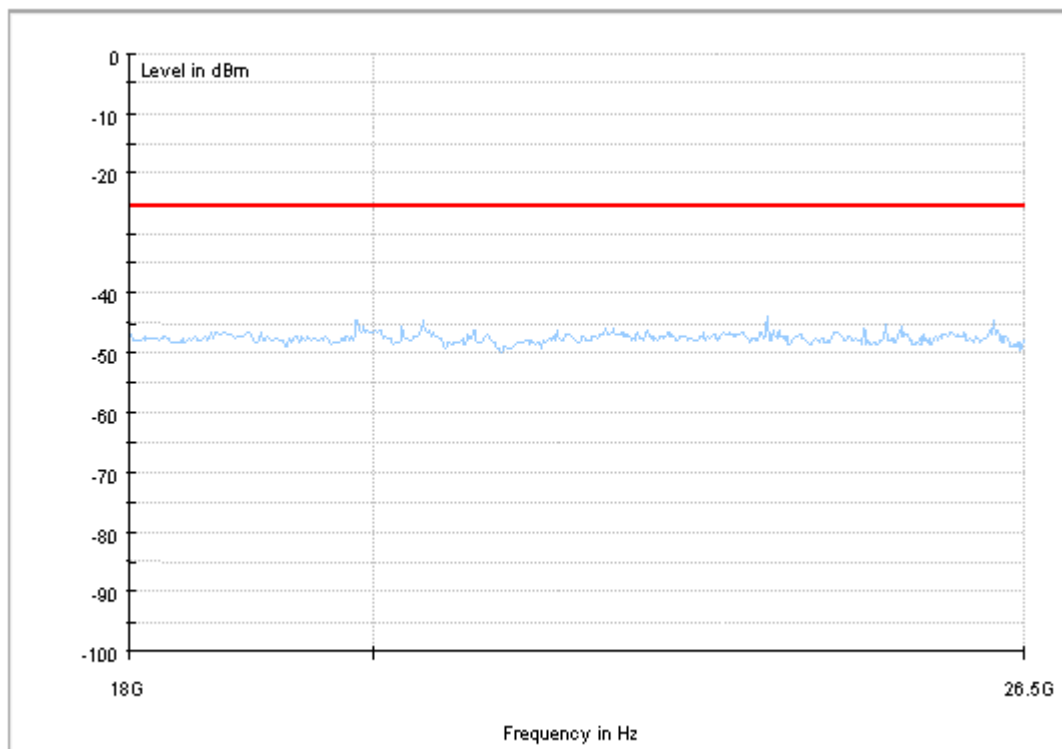


RSE-TX-DIRECTOR ABOVE 1.5G\_L

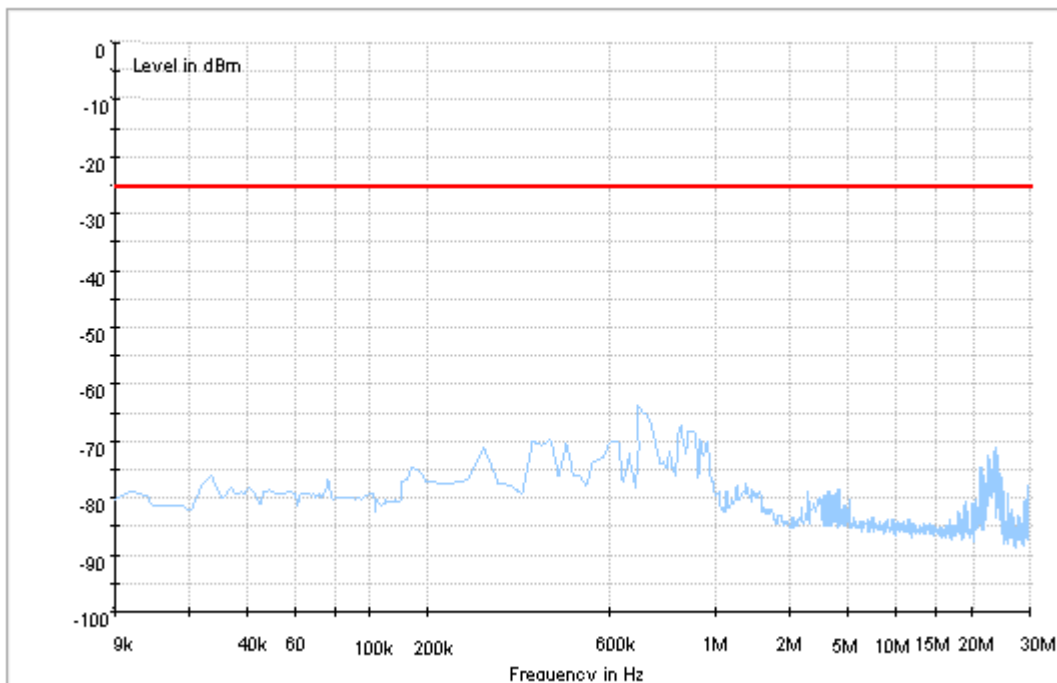


RSE-TX-DIRECTOR ABOVE 1.5G\_H

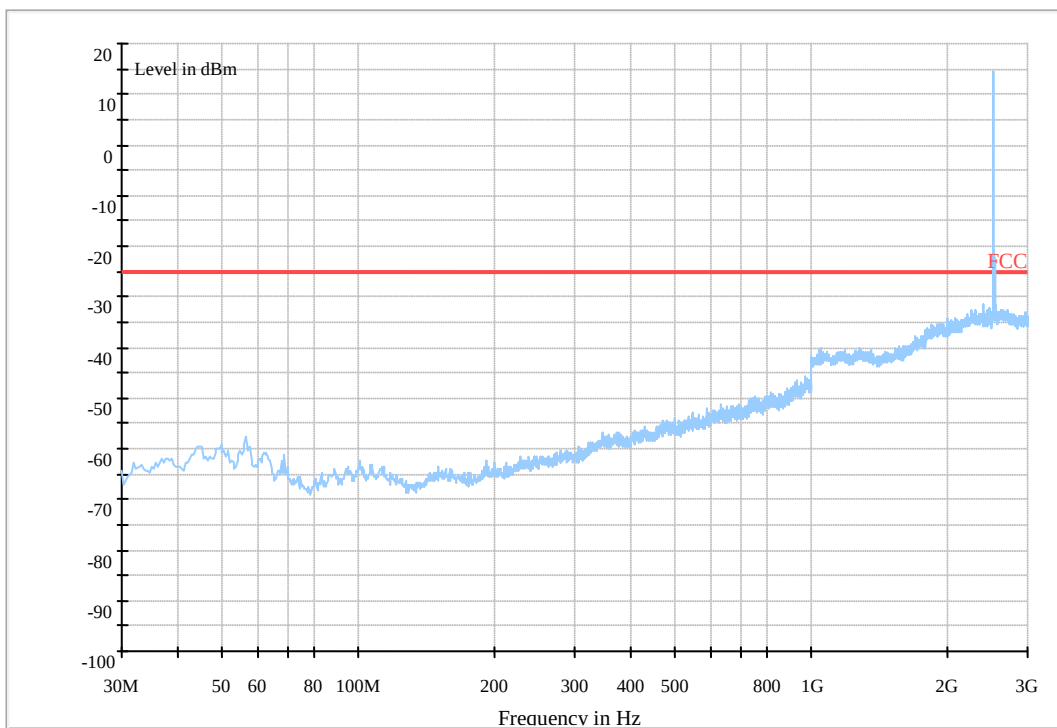




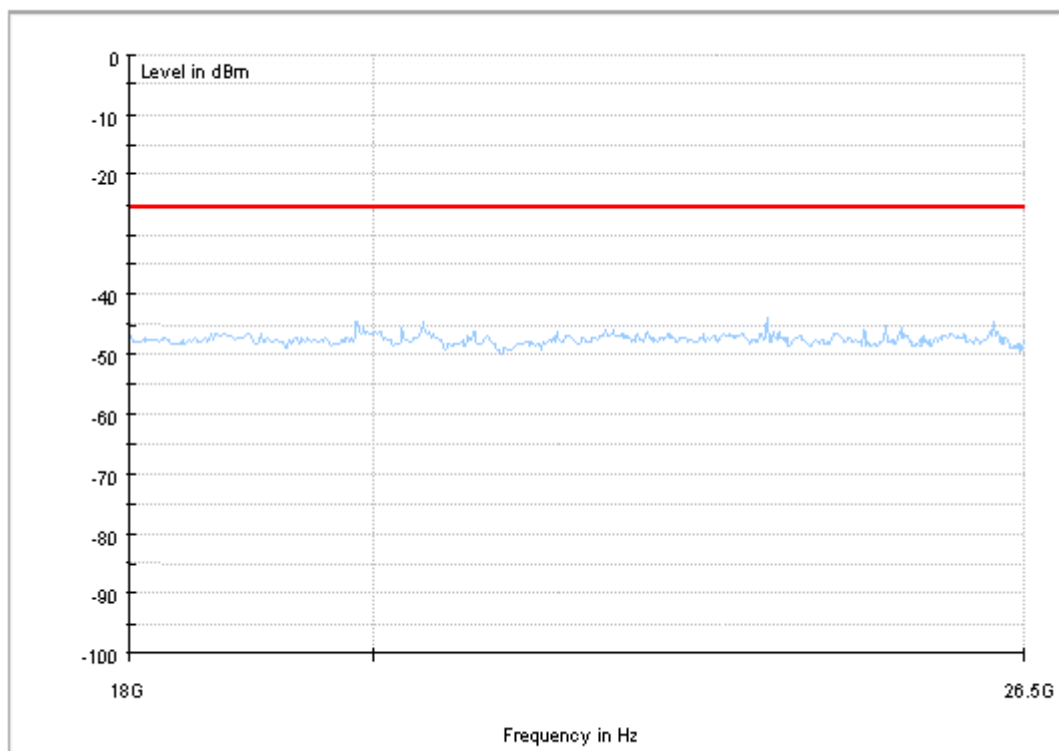
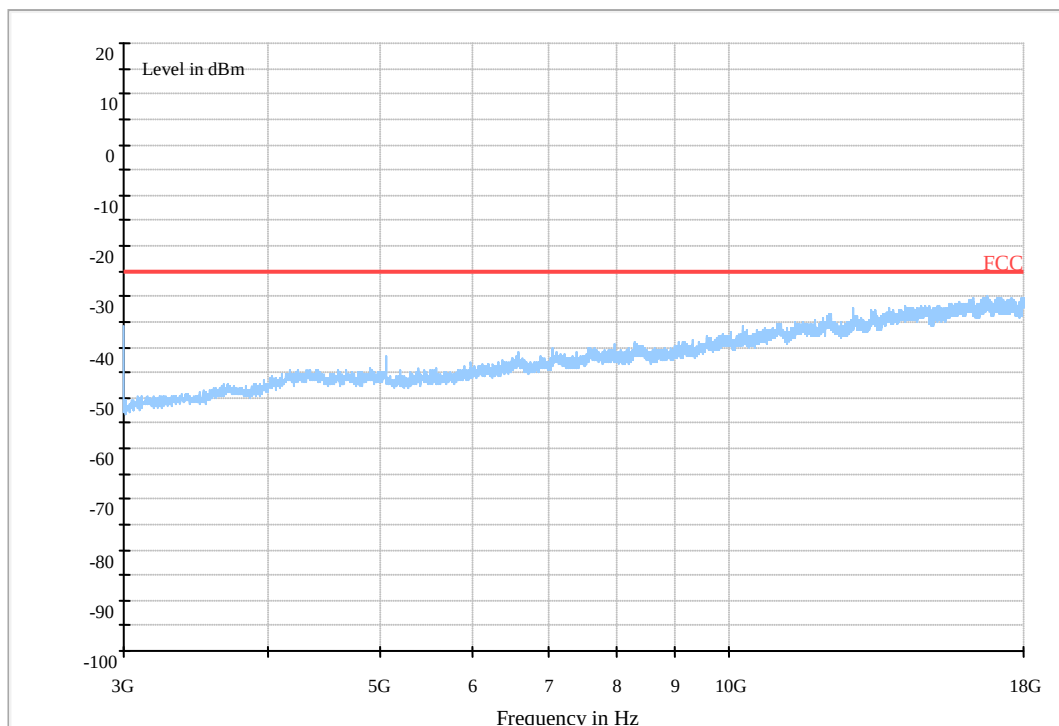
### 7.3.2.2 Test Bandwidth = 20



Copy of RSE-TX-DIRECTOR ABOVE 1.5G\_L



Copy of RSE-TX-DIRECTOR ABOVE 1.5G\_H



## 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         | -17.05           | -0.02069              | PASS    |
|           |           |              |            | VN         | -14.98           | -0.01818              | PASS    |
|           |           |              |            | VH         | -14.98           | -0.01818              | PASS    |
|           |           | MCH          | TN         | VL         | -12.40           | -0.01482              | PASS    |
|           |           |              |            | VN         | -10.53           | -0.01259              | PASS    |
|           |           |              |            | VH         | -14.53           | -0.01737              | PASS    |
|           |           | HCH          | TN         | VL         | -10.91           | -0.01285              | PASS    |
|           |           |              |            | VN         | -11.43           | -0.01347              | PASS    |
|           |           |              |            | VH         | -12.27           | -0.01446              | PASS    |
|           | GSM/TM2   | LCH          | TN         | VL         | -30.96           | -0.03756              | PASS    |
|           |           |              |            | VN         | -22.73           | -0.02758              | PASS    |
|           |           |              |            | VH         | -29.51           | -0.0358               | PASS    |
|           |           | MCH          | TN         | VL         | -22.28           | -0.02663              | PASS    |
|           |           |              |            | VN         | -17.92           | -0.02142              | PASS    |
|           |           |              |            | VH         | -22.96           | -0.02744              | PASS    |
|           |           | HCH          | TN         | VL         | -22.47           | -0.02647              | PASS    |
|           |           |              |            | VN         | -29.22           | -0.03443              | PASS    |
|           |           |              |            | VH         | -31.77           | -0.03743              | PASS    |
| GSM1900   | GSM/TM1   | LCH          | TN         | VL         | -16.72           | -0.00904              | PASS    |
|           |           |              |            | VN         | -9.10            | -0.00492              | PASS    |
|           |           |              |            | VH         | -19.44           | -0.01051              | PASS    |
|           |           | MCH          | TN         | VL         | -4.39            | -0.00234              | PASS    |
|           |           |              |            | VN         | -1.94            | -0.00103              | PASS    |
|           |           |              |            | VH         | 0.90             | 0.00048               | PASS    |
|           |           | HCH          | TN         | VL         | 4.39             | 0.0023                | PASS    |
|           |           |              |            | VN         | -0.52            | -0.00027              | PASS    |
|           |           |              |            | VH         | 5.68             | 0.00297               | PASS    |
|           | GSM/TM2   | LCH          | TN         | VL         | -6.52            | -0.00352              | PASS    |
|           |           |              |            | VN         | -13.88           | -0.0075               | PASS    |

| Test Band | Test Mode | Test Channel | Test Temp. | Test Volt. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|--------------|------------|------------|------------------|-----------------------|---------|
|           |           | MCH          | TN         | VH         | 2.10             | 0.00114               | PASS    |
|           |           |              |            | VL         | 0.23             | 0.00012               | PASS    |
|           |           |              |            | VN         | -9.20            | -0.00489              | PASS    |
|           |           |              |            | VH         | -3.81            | -0.00203              | PASS    |
|           |           | HCH          | TN         | VL         | 10.59            | 0.00555               | PASS    |
|           |           |              |            | VN         | -9.20            | -0.00482              | PASS    |
|           |           |              |            | VH         | -0.55            | -0.00029              | 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        | -11.62           | -0.0141               | PASS    |
|           |           |              |            | -20        | -13.56           | -0.01645              | PASS    |
|           |           |              |            | -10        | -12.59           | -0.01528              | PASS    |
|           |           |              |            | 0          | -13.30           | -0.01614              | PASS    |
|           |           |              |            | 10         | -14.01           | -0.017                | PASS    |
|           |           |              |            | 20         | -15.37           | -0.01865              | PASS    |
|           |           |              |            | 30         | -16.40           | -0.0199               | PASS    |
|           |           |              |            | 40         | -16.72           | -0.02029              | PASS    |
|           |           |              |            | 50         | -11.88           | -0.01441              | PASS    |
|           |           | MCH          | VN         | -30        | -14.72           | -0.0176               | PASS    |
|           |           |              |            | -20        | -17.43           | -0.02083              | PASS    |
|           |           |              |            | -10        | -8.91            | -0.01065              | PASS    |
|           |           |              |            | 0          | -13.82           | -0.01652              | PASS    |
|           |           |              |            | 10         | -10.59           | -0.01266              | PASS    |
|           |           |              |            | 20         | -12.66           | -0.01513              | PASS    |
|           |           |              |            | 30         | -11.75           | -0.01404              | PASS    |
|           |           |              |            | 40         | -9.30            | -0.01112              | PASS    |
|           |           |              |            | 50         | -11.17           | -0.01335              | PASS    |
|           |           | HCH          | VN         | -30        | -9.88            | -0.01164              | PASS    |
|           |           |              |            | -20        | -12.14           | -0.0143               | PASS    |
|           |           |              |            | -10        | -11.62           | -0.01369              | PASS    |
|           |           |              |            | 0          | -11.82           | -0.01393              | PASS    |
|           |           |              |            | 10         | -12.14           | -0.0143               | PASS    |
|           |           |              |            | 20         | -13.24           | -0.0156               | PASS    |
|           |           |              |            | 30         | -9.75            | -0.01149              | PASS    |
|           |           |              |            | 40         | -10.91           | -0.01285              | PASS    |
|           |           |              |            | 50         | -9.94            | -0.01171              | PASS    |
|           | GSM/TM2   | LCH          | VN         | -30        | -21.57           | -0.02617              | PASS    |

| Test Band | Test Mode | Test Channel | Test Volt. | Test Temp. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|--------------|------------|------------|------------------|-----------------------|---------|
|           |           |              |            | -20        | -21.24           | -0.02577              | PASS    |
|           |           |              |            | -10        | -30.54           | -0.03705              | PASS    |
|           |           |              |            | 0          | -30.96           | -0.03756              | PASS    |
|           |           |              |            | 10         | -19.05           | -0.02311              | PASS    |
|           |           |              |            | 20         | -34.29           | -0.0416               | PASS    |
|           |           |              |            | 30         | -26.25           | -0.03185              | PASS    |
|           |           |              |            | 40         | -32.96           | -0.03999              | PASS    |
|           |           |              |            | 50         | -18.24           | -0.02213              | PASS    |
|           |           | MCH          | VN         | -30        | -26.44           | -0.0316               | PASS    |
|           |           |              |            | -20        | -17.24           | -0.02061              | PASS    |
|           |           |              |            | -10        | -27.73           | -0.03315              | PASS    |
|           |           |              |            | 0          | -36.58           | -0.04372              | PASS    |
|           |           |              |            | 10         | -37.90           | -0.0453               | PASS    |
|           |           |              |            | 20         | -28.93           | -0.03458              | PASS    |
|           |           |              |            | 30         | -30.77           | -0.03678              | PASS    |
|           |           |              |            | 40         | -27.35           | -0.03269              | PASS    |
|           |           |              |            | 50         | -23.70           | -0.02833              | PASS    |
|           |           | HCH          | VN         | -30        | -25.86           | -0.03047              | PASS    |
|           |           |              |            | -20        | -15.56           | -0.01833              | PASS    |
|           |           |              |            | -10        | -31.67           | -0.03731              | PASS    |
|           |           |              |            | 0          | -23.76           | -0.02799              | PASS    |
|           |           |              |            | 10         | -23.08           | -0.02719              | PASS    |
|           |           |              |            | 20         | -20.37           | -0.024                | PASS    |
|           |           |              |            | 30         | -20.92           | -0.02465              | PASS    |
|           |           |              |            | 40         | -30.67           | -0.03613              | PASS    |
|           |           |              |            | 50         | -17.95           | -0.02115              | PASS    |
| GSM1900   | GSM/TM1   | LCH          | VN         | -30        | -7.88            | -0.00426              | PASS    |
|           |           |              |            | -20        | -8.07            | -0.00436              | PASS    |
|           |           |              |            | -10        | -6.97            | -0.00377              | PASS    |
|           |           |              |            | 0          | -3.23            | -0.00175              | PASS    |
|           |           |              |            | 10         | -8.85            | -0.00478              | PASS    |
|           |           |              |            | 20         | -0.52            | -0.00028              | PASS    |
|           |           |              |            | 30         | -12.14           | -0.00656              | PASS    |
|           |           |              |            | 40         | 2.07             | 0.00112               | PASS    |
|           |           |              |            | 50         | -7.17            | -0.00388              | PASS    |
|           |           | MCH          | VN         | -30        | 6.59             | 0.00351               | PASS    |
|           |           |              |            | -20        | 0.32             | 0.00017               | PASS    |
|           |           |              |            | -10        | 6.33             | 0.00337               | PASS    |
|           |           |              |            | 0          | 3.87             | 0.00206               | PASS    |
|           |           |              |            | 10         | 12.72            | 0.00677               | PASS    |

| Test Band | Test Mode | Test Channel | Test Volt. | Test Temp. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|--------------|------------|------------|------------------|-----------------------|---------|
|           |           |              |            | 20         | 6.65             | 0.00354               | PASS    |
|           |           |              |            | 30         | 1.10             | 0.00059               | PASS    |
|           |           |              |            | 40         | 5.55             | 0.00295               | PASS    |
|           |           |              |            | 50         | 4.65             | 0.00247               | PASS    |
|           |           | HCH          | VN         | -30        | -0.52            | -0.00027              | PASS    |
|           |           |              |            | -20        | -0.26            | -0.00014              | PASS    |
|           |           |              |            | -10        | 0.77             | 0.0004                | PASS    |
|           |           |              |            | 0          | -0.19            | -0.0001               | PASS    |
|           |           |              |            | 10         | -2.32            | -0.00121              | PASS    |
|           |           |              |            | 20         | -3.16            | -0.00165              | PASS    |
|           |           |              |            | 30         | -3.55            | -0.00186              | PASS    |
|           |           |              |            | 40         | -0.65            | -0.00034              | PASS    |
|           |           |              |            | 50         | 4.26             | 0.00223               | PASS    |
|           | GSM/TM2   | LCH          | VN         | -30        | -0.71            | -0.00038              | PASS    |
|           |           |              |            | -20        | -10.56           | -0.00571              | PASS    |
|           |           |              |            | -10        | 6.91             | 0.00373               | PASS    |
|           |           |              |            | 0          | -6.46            | -0.00349              | PASS    |
|           |           |              |            | 10         | -9.56            | -0.00517              | PASS    |
|           |           |              |            | 20         | -12.20           | -0.00659              | PASS    |
|           |           |              |            | 30         | -6.10            | -0.0033               | PASS    |
|           |           |              |            | 40         | -12.37           | -0.00669              | PASS    |
|           |           |              |            | 50         | -14.14           | -0.00764              | PASS    |
|           |           | MCH          | VN         | -30        | 5.33             | 0.00284               | PASS    |
|           |           |              |            | -20        | 6.65             | 0.00354               | PASS    |
|           |           |              |            | -10        | 4.88             | 0.0026                | PASS    |
|           |           |              |            | 0          | 0.45             | 0.00024               | PASS    |
|           |           |              |            | 10         | 0.90             | 0.00048               | PASS    |
|           |           |              |            | 20         | 5.36             | 0.00285               | PASS    |
|           |           |              |            | 30         | -1.90            | -0.00101              | PASS    |
|           |           |              |            | 40         | -10.01           | -0.00532              | PASS    |
|           |           |              |            | 50         | -9.23            | -0.00491              | PASS    |
|           |           | HCH          | VN         | -30        | -7.10            | -0.00372              | PASS    |
|           |           |              |            | -20        | -3.26            | -0.00171              | PASS    |
|           |           |              |            | -10        | -4.78            | -0.0025               | PASS    |
|           |           |              |            | 0          | -3.68            | -0.00193              | PASS    |
|           |           |              |            | 10         | -2.10            | -0.0011               | PASS    |
|           |           |              |            | 20         | -0.55            | -0.00029              | PASS    |
|           |           |              |            | 30         | 9.91             | 0.00519               | PASS    |
|           |           |              |            | 40         | 2.32             | 0.00121               | PASS    |
|           |           |              |            | 50         | 1.36             | 0.00071               | PASS    |

## 8.2 For UMTS

### 8.2.1 Frequency Error vs. Voltage:

| Test Band | Test Mode | Test Channel | Test Temp. | Test Volt. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|--------------|------------|------------|------------------|-----------------------|---------|
| WCDMA850  | UMTS/TM1  | LCH          | TN         | VL         | 5.58             | 0.00675               | PASS    |
|           |           |              |            | VN         | -0.98            | -0.00119              | PASS    |
|           |           |              |            | VH         | 7.22             | 0.00874               | PASS    |
|           |           | MCH          | TN         | VL         | 2.32             | 0.00277               | PASS    |
|           |           |              |            | VN         | 4.41             | 0.00527               | PASS    |
|           |           |              |            | VH         | 1.77             | 0.00212               | PASS    |
|           |           | HCH          | TN         | VL         | 2.75             | 0.00325               | PASS    |
|           |           |              |            | VN         | 0.41             | 0.00048               | PASS    |
|           |           |              |            | VH         | 0.35             | 0.00041               | PASS    |
| WCDMA1900 | UMTS/TM1  | LCH          | TN         | VL         | -4.27            | -0.00231              | PASS    |
|           |           |              |            | VN         | -2.23            | -0.0012               | PASS    |
|           |           |              |            | VH         | 2.09             | 0.00113               | PASS    |
|           |           | MCH          | TN         | VL         | -5.71            | -0.00304              | PASS    |
|           |           |              |            | VN         | -0.03            | -0.00002              | PASS    |
|           |           |              |            | VH         | 9.48             | 0.00504               | PASS    |
|           |           | HCH          | TN         | VL         | 0.24             | 0.00013               | PASS    |
|           |           |              |            | VN         | -1.91            | -0.001                | PASS    |
|           |           |              |            | VH         | -0.24            | -0.00013              | PASS    |

### 8.2.2 Frequency Error vs. Temperature:

| Test Band | Test Mode | Test Channel | Test Volt. | Test Temp. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|--------------|------------|------------|------------------|-----------------------|---------|
| WCDMA850  | UMTS/TM1  | LCH          | VN         | -30        | -4.97            | -0.00601              | PASS    |
|           |           |              |            | -20        | -1.07            | -0.00129              | PASS    |
|           |           |              |            | -10        | 2.76             | 0.00334               | PASS    |
|           |           |              |            | 0          | -6.18            | -0.00748              | PASS    |
|           |           |              |            | 10         | 2.82             | 0.00341               | PASS    |
|           |           |              |            | 20         | -1.94            | -0.00235              | PASS    |
|           |           |              |            | 30         | 3.14             | 0.0038                | PASS    |
|           |           |              |            | 40         | 3.81             | 0.00461               | PASS    |
|           |           |              |            | 50         | 1.69             | 0.00205               | PASS    |
|           |           | MCH          | VN         | -30        | -0.66            | -0.00079              | PASS    |
|           |           |              |            | -20        | 1.56             | 0.00187               | PASS    |
|           |           |              |            | -10        | 6.45             | 0.00771               | PASS    |
|           |           |              |            | 0          | -3.80            | -0.00454              | PASS    |
|           |           |              |            | 10         | -0.89            | -0.00106              | PASS    |

| Test Band | Test Mode | Test Channel | Test Volt. | Test Temp. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|--------------|------------|------------|------------------|-----------------------|---------|
|           |           |              |            | 20         | 6.47             | 0.00774               | PASS    |
|           |           |              |            | 30         | 3.59             | 0.00429               | PASS    |
|           |           |              |            | 40         | 1.72             | 0.00206               | PASS    |
|           |           |              |            | 50         | 1.27             | 0.00152               | PASS    |
|           |           | HCH          | VN         | -30        | 2.81             | 0.00332               | PASS    |
|           |           |              |            | -20        | 11.55            | 0.01364               | PASS    |
|           |           |              |            | -10        | 4.81             | 0.00568               | PASS    |
|           |           |              |            | 0          | 10.27            | 0.01213               | PASS    |
|           |           |              |            | 10         | 3.68             | 0.00435               | PASS    |
|           |           |              |            | 20         | 6.84             | 0.00808               | PASS    |
|           |           |              |            | 30         | -1.11            | -0.00131              | PASS    |
|           |           |              |            | 40         | -3.07            | -0.00363              | PASS    |
|           |           |              |            | 50         | 2.00             | 0.00236               | PASS    |
| WCDMA1900 | UMTS/TM1  | LCH          | VN         | -30        | 2.18             | 0.00118               | PASS    |
|           |           |              |            | -20        | 7.66             | 0.00414               | PASS    |
|           |           |              |            | -10        | 11.00            | 0.00594               | PASS    |
|           |           |              |            | 0          | 4.03             | 0.00218               | PASS    |
|           |           |              |            | 10         | -3.45            | -0.00186              | PASS    |
|           |           |              |            | 20         | -1.07            | -0.00058              | PASS    |
|           |           |              |            | 30         | -3.94            | -0.00213              | PASS    |
|           |           |              |            | 40         | 8.22             | 0.00444               | PASS    |
|           |           |              |            | 50         | 3.23             | 0.00174               | PASS    |
|           |           | MCH          | VN         | -30        | 3.25             | 0.00173               | PASS    |
|           |           |              |            | -20        | 7.08             | 0.00377               | PASS    |
|           |           |              |            | -10        | -6.12            | -0.00326              | PASS    |
|           |           |              |            | 0          | 6.16             | 0.00328               | PASS    |
|           |           |              |            | 10         | -11.08           | -0.00589              | PASS    |
|           |           |              |            | 20         | -1.30            | -0.00069              | PASS    |
|           |           |              |            | 30         | 1.57             | 0.00084               | PASS    |
|           |           |              |            | 40         | -1.77            | -0.00094              | PASS    |
|           |           |              |            | 50         | 3.19             | 0.0017                | PASS    |
|           |           | HCH          | VN         | -30        | 0.70             | 0.00037               | PASS    |
|           |           |              |            | -20        | -7.80            | -0.00409              | PASS    |
|           |           |              |            | -10        | 6.81             | 0.00357               | PASS    |
|           |           |              |            | 0          | -6.91            | -0.00362              | PASS    |
|           |           |              |            | 10         | 6.73             | 0.00353               | PASS    |
|           |           |              |            | 20         | -8.90            | -0.00467              | PASS    |
|           |           |              |            | 30         | -2.08            | -0.00109              | PASS    |
|           |           |              |            | 40         | -1.34            | -0.0007               | PASS    |
|           |           |              |            | 50         | 4.29             | 0.00225               | PASS    |

### 8.3 For LTE

#### 8.3.1 Frequency Error vs. Voltage

| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Temp. | Test Volt. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|------------|------------------|-----------------------|---------|
| BAND5     | LTE/TM1   | 5                    | LCH          | TN         | VL         | 2.78             | 0.00336               | PASS    |
|           |           |                      |              |            | VN         | 0.34             | 0.00041               | PASS    |
|           |           |                      |              |            | VH         | 3.73             | 0.00451               | PASS    |
|           |           |                      | MCH          | TN         | VL         | 3.28             | 0.00392               | PASS    |
|           |           |                      |              |            | VN         | 2.76             | 0.0033                | PASS    |
|           |           |                      |              |            | VH         | 6.91             | 0.00826               | PASS    |
|           |           |                      | HCH          | TN         | VL         | -0.69            | -0.00082              | PASS    |
|           |           |                      |              |            | VN         | -3.05            | -0.0036               | PASS    |
|           |           |                      |              |            | VH         | 6.18             | 0.0073                | PASS    |
|           |           | 10                   | LCH          | TN         | VL         | 0.43             | 0.00052               | PASS    |
|           |           |                      |              |            | VN         | 0.69             | 0.00083               | PASS    |
|           |           |                      |              |            | VH         | -2.40            | -0.0029               | PASS    |
|           |           |                      | MCH          | TN         | VL         | 0.66             | 0.00079               | PASS    |
|           |           |                      |              |            | VN         | 2.78             | 0.00332               | PASS    |
|           |           |                      |              |            | VH         | 4.29             | 0.00513               | PASS    |
|           |           |                      | HCH          | TN         | VL         | -0.99            | -0.00117              | PASS    |
|           |           |                      |              |            | VN         | 9.61             | 0.01139               | PASS    |
|           |           |                      |              |            | VH         | 1.43             | 0.00169               | PASS    |
|           | LTE/TM2   | 5                    | LCH          | TN         | VL         | 2.99             | 0.00362               | PASS    |
|           |           |                      |              |            | VN         | 0.21             | 0.00025               | PASS    |
|           |           |                      |              |            | VH         | 4.31             | 0.00521               | PASS    |
|           |           |                      | MCH          | TN         | VL         | 7.45             | 0.00891               | PASS    |
|           |           |                      |              |            | VN         | 1.30             | 0.00155               | PASS    |
|           |           |                      |              |            | VH         | 6.02             | 0.0072                | PASS    |
|           |           |                      | HCH          | TN         | VL         | -10.84           | -0.01281              | PASS    |
|           |           |                      |              |            | VN         | -1.56            | -0.00184              | PASS    |
|           |           |                      |              |            | VH         | 22.86            | 0.02701               | PASS    |
|           |           | 10                   | LCH          | TN         | VL         | -1.14            | -0.00138              | PASS    |
|           |           |                      |              |            | VN         | 0.94             | 0.00113               | PASS    |
|           |           |                      |              |            | VH         | 3.12             | 0.00376               | PASS    |
|           |           |                      | MCH          | TN         | VL         | -34.00           | -0.04065              | PASS    |
|           |           |                      |              |            | VN         | -1.93            | -0.00231              | PASS    |
|           |           |                      |              |            | VH         | 7.00             | 0.00837               | PASS    |
|           |           |                      | HCH          | TN         | VL         | -0.80            | -0.00095              | PASS    |

| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Temp. | Test Volt. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|------------|------------------|-----------------------|---------|
|           |           |                      |              |            | VN         | -1.65            | -0.00195              | PASS    |
|           |           |                      |              |            | VH         | 7.58             | 0.00898               | PASS    |

| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Temp. | Test Volt. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Limit [dBm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|------------|------------------|-----------------------|-------------|---------|
| BAND7     | LTE/TM1   | 5                    | LCH          | TN         | VL         | 5.59             | 0.00223               | ±2.5        | PASS    |
|           |           |                      |              |            | VN         | 1.37             | 0.00055               | ±2.5        | PASS    |
|           |           |                      |              |            | VH         | 0.23             | 0.00009               | ±2.5        | PASS    |
|           |           |                      | MCH          | TN         | VL         | 3.82             | 0.00151               | ±2.5        | PASS    |
|           |           |                      |              |            | VN         | 8.88             | 0.0035                | ±2.5        | PASS    |
|           |           |                      |              |            | VH         | -0.24            | -0.00009              | ±2.5        | PASS    |
|           |           |                      | HCH          | TN         | VL         | 12.35            | 0.00481               | ±2.5        | PASS    |
|           |           |                      |              |            | VN         | 9.34             | 0.00364               | ±2.5        | PASS    |
|           |           |                      |              |            | VH         | 0.41             | 0.00016               | ±2.5        | PASS    |
|           |           | 10                   | LCH          | TN         | VL         | 5.12             | 0.00204               | ±2.5        | PASS    |
|           |           |                      |              |            | VN         | 1.37             | 0.00055               | ±2.5        | PASS    |
|           |           |                      |              |            | VH         | 2.45             | 0.00098               | ±2.5        | PASS    |
|           |           |                      | MCH          | TN         | VL         | 1.22             | 0.00048               | ±2.5        | PASS    |
|           |           |                      |              |            | VN         | 3.19             | 0.00126               | ±2.5        | PASS    |
|           |           |                      |              |            | VH         | 2.20             | 0.00087               | ±2.5        | PASS    |
|           |           |                      | HCH          | TN         | VL         | -0.10            | -0.00004              | ±2.5        | PASS    |
|           |           |                      |              |            | VN         | 7.71             | 0.00301               | ±2.5        | PASS    |
|           |           |                      |              |            | VH         | 5.94             | 0.00232               | ±2.5        | PASS    |
|           |           | 15                   | LCH          | TN         | VL         | 5.54             | 0.00221               | ±2.5        | PASS    |
|           |           |                      |              |            | VN         | -5.41            | -0.00216              | ±2.5        | PASS    |
|           |           |                      |              |            | VH         | 2.13             | 0.00085               | ±2.5        | PASS    |
|           |           |                      | MCH          | TN         | VL         | 1.12             | 0.00044               | ±2.5        | PASS    |
|           |           |                      |              |            | VN         | 3.53             | 0.00139               | ±2.5        | PASS    |
|           |           |                      |              |            | VH         | -0.44            | -0.00017              | ±2.5        | PASS    |
|           |           |                      | HCH          | TN         | VL         | -0.27            | -0.00011              | ±2.5        | PASS    |
|           |           |                      |              |            | VN         | 1.42             | 0.00055               | ±2.5        | PASS    |
|           |           |                      |              |            | VH         | 6.35             | 0.00248               | ±2.5        | PASS    |
|           |           | 20                   | LCH          | TN         | VL         | 2.09             | 0.00083               | ±2.5        | PASS    |
|           |           |                      |              |            | VN         | 6.87             | 0.00274               | ±2.5        | PASS    |
|           |           |                      |              |            | VH         | 3.22             | 0.00128               | ±2.5        | PASS    |
|           |           |                      | MCH          | TN         | VL         | 2.42             | 0.00095               | ±2.5        | PASS    |
|           |           |                      |              |            | VN         | 4.22             | 0.00166               | ±2.5        | PASS    |
|           |           |                      |              |            | VH         | 3.59             | 0.00142               | ±2.5        | PASS    |

| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Temp. | Test Volt. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Limit [dBm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|------------|------------------|-----------------------|-------------|---------|
|           | LTE/TM2   |                      | HCH          | TN         | VL         | 2.09             | 0.00082               | ±2.5        | PASS    |
|           |           |                      |              |            | VN         | 2.75             | 0.00107               | ±2.5        | PASS    |
|           |           |                      |              |            | VH         | 0.21             | 0.00008               | ±2.5        | PASS    |
|           |           | 5                    | LCH          | TN         | VL         | 1.82             | 0.00073               | ±2.5        | PASS    |
|           |           |                      |              |            | VN         | 1.22             | 0.00049               | ±2.5        | PASS    |
|           |           |                      |              |            | VH         | 6.65             | 0.00266               | ±2.5        | PASS    |
|           |           |                      | MCH          | TN         | VL         | 2.05             | 0.00081               | ±2.5        | PASS    |
|           |           |                      |              |            | VN         | 2.82             | 0.00111               | ±2.5        | PASS    |
|           |           |                      |              |            | VH         | 7.31             | 0.00288               | ±2.5        | PASS    |
|           |           |                      | HCH          | TN         | VL         | 1.99             | 0.00078               | ±2.5        | PASS    |
|           |           |                      |              |            | VN         | 6.17             | 0.0024                | ±2.5        | PASS    |
|           |           |                      |              |            | VH         | 6.17             | 0.0024                | ±2.5        | PASS    |
|           |           | 10                   | LCH          | TN         | VL         | 6.12             | 0.00244               | ±2.5        | PASS    |
|           |           |                      |              |            | VN         | 4.72             | 0.00188               | ±2.5        | PASS    |
|           |           |                      |              |            | VH         | 5.98             | 0.00239               | ±2.5        | PASS    |
|           |           |                      | MCH          | TN         | VL         | 5.76             | 0.00227               | ±2.5        | PASS    |
|           |           |                      |              |            | VN         | 3.93             | 0.00155               | ±2.5        | PASS    |
|           |           |                      |              |            | VH         | 2.33             | 0.00092               | ±2.5        | PASS    |
|           |           |                      | HCH          | TN         | VL         | 3.78             | 0.00147               | ±2.5        | PASS    |
|           |           |                      |              |            | VN         | 3.02             | 0.00118               | ±2.5        | PASS    |
|           |           |                      |              |            | VH         | 0.49             | 0.00019               | ±2.5        | PASS    |
|           |           | 15                   | LCH          | TN         | VL         | 2.46             | 0.00098               | ±2.5        | PASS    |
|           |           |                      |              |            | VN         | 5.89             | 0.00235               | ±2.5        | PASS    |
|           |           |                      |              |            | VH         | 3.33             | 0.00133               | ±2.5        | PASS    |
|           |           |                      | MCH          | TN         | VL         | 1.19             | 0.00047               | ±2.5        | PASS    |
|           |           |                      |              |            | VN         | 2.73             | 0.00108               | ±2.5        | PASS    |
|           |           |                      |              |            | VH         | 4.56             | 0.0018                | ±2.5        | PASS    |
|           |           |                      | HCH          | TN         | VL         | 2.36             | 0.00092               | ±2.5        | PASS    |
|           |           |                      |              |            | VN         | 0.03             | 0.00001               | ±2.5        | PASS    |
|           |           |                      |              |            | VH         | 4.88             | 0.0019                | ±2.5        | PASS    |
|           |           | 20                   | LCH          | TN         | VL         | 0.93             | 0.00037               | ±2.5        | PASS    |
|           |           |                      |              |            | VN         | 3.52             | 0.0014                | ±2.5        | PASS    |
|           |           |                      |              |            | VH         | -4.16            | -0.00166              | ±2.5        | PASS    |
|           |           |                      | MCH          | TN         | VL         | 3.60             | 0.00142               | ±2.5        | PASS    |
|           |           |                      |              |            | VN         | 0.21             | 0.00008               | ±2.5        | PASS    |
|           |           |                      |              |            | VH         | 1.72             | 0.00068               | ±2.5        | PASS    |
|           |           |                      | HCH          | TN         | VL         | 1.24             | 0.00048               | ±2.5        | PASS    |
|           |           |                      |              |            | VN         | 6.08             | 0.00237               | ±2.5        | PASS    |
|           |           |                      |              |            | VH         | 3.15             | 0.00123               | ±2.5        | PASS    |

### 8.3.2 Frequency Error vs. Temperature:

| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Temp. | Test Volt. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|------------|------------------|-----------------------|---------|
| BAND5     | LTE/TM1   | 5                    | LCH          | VN         | -30        | 1.82             | 0.0022                | PASS    |
|           |           |                      |              |            | -20        | 0.11             | 0.00013               | PASS    |
|           |           |                      |              |            | -10        | 3.35             | 0.00405               | PASS    |
|           |           |                      |              |            | 0          | -0.59            | -0.00071              | PASS    |
|           |           |                      |              |            | 10         | 2.68             | 0.00324               | PASS    |
|           |           |                      |              |            | 20         | 2.90             | 0.00351               | PASS    |
|           |           |                      |              |            | 30         | 4.99             | 0.00604               | PASS    |
|           |           |                      |              |            | 40         | -1.19            | -0.00144              | PASS    |
|           |           |                      |              |            | 50         | 2.10             | 0.00254               | PASS    |
|           |           |                      | MCH          | VN         | -30        | 4.51             | 0.00539               | PASS    |
|           |           |                      |              |            | -20        | 6.61             | 0.0079                | PASS    |
|           |           |                      |              |            | -10        | 0.92             | 0.0011                | PASS    |
|           |           |                      |              |            | 0          | 1.72             | 0.00206               | PASS    |
|           |           |                      |              |            | 10         | -0.50            | -0.0006               | PASS    |
|           |           |                      |              |            | 20         | 5.18             | 0.00619               | PASS    |
|           |           |                      |              |            | 30         | 1.23             | 0.00147               | PASS    |
|           |           |                      |              |            | 40         | 2.32             | 0.00277               | PASS    |
|           |           |                      |              |            | 50         | 2.49             | 0.00298               | PASS    |
|           |           |                      | HCH          | VN         | -30        | 0.89             | 0.00105               | PASS    |
|           |           |                      |              |            | -20        | -14.00           | -0.01654              | PASS    |
|           |           |                      |              |            | -10        | 7.12             | 0.00841               | PASS    |
|           |           |                      |              |            | 0          | 11.46            | 0.01354               | PASS    |
|           |           |                      |              |            | 10         | 0.43             | 0.00051               | PASS    |
|           |           |                      |              |            | 20         | 6.04             | 0.00714               | PASS    |
|           |           |                      |              |            | 30         | -0.24            | -0.00028              | PASS    |
|           |           |                      |              |            | 40         | 13.83            | 0.01634               | PASS    |
|           |           |                      |              |            | 50         | 3.82             | 0.00451               | PASS    |
|           |           | 10                   | LCH          | VN         | -30        | 3.15             | 0.0038                | PASS    |
|           |           |                      |              |            | -20        | 1.06             | 0.00128               | PASS    |
|           |           |                      |              |            | -10        | 2.13             | 0.00257               | PASS    |
|           |           |                      |              |            | 0          | 12.95            | 0.01562               | PASS    |
|           |           |                      |              |            | 10         | -0.56            | -0.00068              | PASS    |
|           |           |                      |              |            | 20         | 6.21             | 0.00749               | PASS    |
|           |           |                      |              |            | 30         | 5.39             | 0.0065                | PASS    |

| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Temp. | Test Volt. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|------------|------------------|-----------------------|---------|
|           |           |                      |              |            | 40         | -6.47            | -0.0078               | PASS    |
|           |           |                      |              |            | 50         | -23.17           | -0.02795              | PASS    |
|           |           |                      | MCH          | VN         | -30        | 24.52            | 0.02931               | PASS    |
|           |           |                      |              |            | -20        | -12.62           | -0.01509              | PASS    |
|           |           |                      |              |            | -10        | 38.92            | 0.04653               | PASS    |
|           |           |                      |              |            | 0          | -53.01           | -0.06337              | PASS    |
|           |           |                      |              |            | 10         | 33.03            | 0.03949               | PASS    |
|           |           |                      |              |            | 20         | -50.55           | -0.06043              | PASS    |
|           |           |                      |              |            | 30         | -6.61            | -0.0079               | PASS    |
|           |           |                      |              |            | 40         | 15.06            | 0.018                 | PASS    |
|           |           |                      |              |            | 50         | -0.30            | -0.00036              | PASS    |
|           |           |                      | HCH          | VN         | -30        | 1.83             | 0.00217               | PASS    |
|           |           |                      |              |            | -20        | 3.83             | 0.00454               | PASS    |
|           |           |                      |              |            | -10        | 2.19             | 0.00259               | PASS    |
|           |           |                      |              |            | 0          | 3.35             | 0.00397               | PASS    |
|           |           |                      |              |            | 10         | 1.57             | 0.00186               | PASS    |
|           |           |                      |              |            | 20         | 1.22             | 0.00145               | PASS    |
|           |           |                      |              |            | 30         | 5.74             | 0.0068                | PASS    |
|           |           |                      |              |            | 40         | 1.57             | 0.00186               | PASS    |
|           |           |                      |              |            | 50         | 3.35             | 0.00397               | PASS    |
|           | LTE/TM2   | 5                    | LCH          | VN         | -30        | -0.99            | -0.0012               | PASS    |
|           |           |                      |              |            | -20        | 8.91             | 0.01078               | PASS    |
|           |           |                      |              |            | -10        | -10.21           | -0.01235              | PASS    |
|           |           |                      |              |            | 0          | 3.72             | 0.0045                | PASS    |
|           |           |                      |              |            | 10         | 3.13             | 0.00379               | PASS    |
|           |           |                      |              |            | 20         | -0.94            | -0.00114              | PASS    |
|           |           |                      |              |            | 30         | 4.71             | 0.0057                | PASS    |
|           |           |                      |              |            | 40         | 1.99             | 0.00241               | PASS    |
|           |           |                      |              |            | 50         | 5.19             | 0.00628               | PASS    |
|           |           |                      | MCH          | VN         | -30        | 3.85             | 0.0046                | PASS    |
|           |           |                      |              |            | -20        | -3.30            | -0.00395              | PASS    |
|           |           |                      |              |            | -10        | -0.93            | -0.00111              | PASS    |
|           |           |                      |              |            | 0          | -2.06            | -0.00246              | PASS    |
|           |           |                      |              |            | 10         | 4.53             | 0.00542               | PASS    |
|           |           |                      |              |            | 20         | 5.92             | 0.00708               | PASS    |
|           |           |                      |              |            | 30         | 3.96             | 0.00473               | PASS    |
|           |           |                      |              |            | 40         | 2.39             | 0.00286               | PASS    |
|           |           |                      |              |            | 50         | 0.03             | 0.00004               | PASS    |
|           |           |                      | HCH          | VN         | -30        | 6.15             | 0.00727               | PASS    |

| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Temp. | Test Volt. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|------------|------------------|-----------------------|---------|
|           |           |                      |              |            | -20        | 1.89             | 0.00223               | PASS    |
|           |           |                      |              |            | -10        | 7.44             | 0.00879               | PASS    |
|           |           |                      |              |            | 0          | 1.79             | 0.00211               | PASS    |
|           |           |                      |              |            | 10         | 3.65             | 0.00431               | PASS    |
|           |           |                      |              |            | 20         | -3.72            | -0.00439              | PASS    |
|           |           |                      |              |            | 30         | -0.66            | -0.00078              | PASS    |
|           |           |                      |              |            | 40         | 2.47             | 0.00292               | PASS    |
|           |           |                      |              |            | 50         | 11.32            | 0.01337               | PASS    |
|           |           | 10                   | LCH          | VN         | -30        | 1.54             | 0.00186               | PASS    |
|           |           |                      |              |            | -20        | -0.40            | -0.00048              | PASS    |
|           |           |                      |              |            | -10        | -1.09            | -0.00131              | PASS    |
|           |           |                      |              |            | 0          | 6.35             | 0.00766               | PASS    |
|           |           |                      |              |            | 10         | 6.79             | 0.00819               | PASS    |
|           |           |                      |              |            | 20         | 0.64             | 0.00077               | PASS    |
|           |           |                      |              |            | 30         | -2.70            | -0.00326              | PASS    |
|           |           |                      |              |            | 40         | 0.49             | 0.00059               | PASS    |
|           |           |                      |              |            | 50         | 17.31            | 0.02088               | PASS    |
|           |           |                      | MCH          | VN         | -30        | -2.06            | -0.00246              | PASS    |
|           |           |                      |              |            | -20        | 7.41             | 0.00886               | PASS    |
|           |           |                      |              |            | -10        | -0.24            | -0.00029              | PASS    |
|           |           |                      |              |            | 0          | 3.16             | 0.00378               | PASS    |
|           |           |                      |              |            | 10         | 0.80             | 0.00096               | PASS    |
|           |           |                      |              |            | 20         | -6.91            | -0.00826              | PASS    |
|           |           |                      |              |            | 30         | 2.15             | 0.00257               | PASS    |
|           |           |                      |              |            | 40         | -0.43            | -0.00051              | PASS    |
|           |           |                      |              |            | 50         | 4.71             | 0.00563               | PASS    |
|           |           |                      | HCH          | VN         | -30        | -3.49            | -0.00414              | PASS    |
|           |           |                      |              |            | -20        | 3.53             | 0.00418               | PASS    |
|           |           |                      |              |            | -10        | 5.82             | 0.0069                | PASS    |
|           |           |                      |              |            | 0          | 5.59             | 0.00662               | PASS    |
|           |           |                      |              |            | 10         | 6.12             | 0.00725               | PASS    |
|           |           |                      |              |            | 20         | -66.96           | -0.07934              | PASS    |
|           |           |                      |              |            | 30         | 3.30             | 0.00391               | PASS    |
|           |           |                      |              |            | 40         | 1.43             | 0.00169               | PASS    |
|           |           |                      |              |            | 50         | -45.26           | -0.05363              | PASS    |

| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Temp. | Test Volt. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Limit [dBm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|------------|------------------|-----------------------|-------------|---------|
| BAND7     | LTE/TM1   | 5                    | LCH          | VN         | -30        | 3.96             | 0.00158               | ±2.5        | PASS    |
|           |           |                      |              |            | -20        | 4.28             | 0.00171               | ±2.5        | PASS    |
|           |           |                      |              |            | -10        | 6.01             | 0.0024                | ±2.5        | PASS    |
|           |           |                      |              |            | 0          | 9.26             | 0.0037                | ±2.5        | PASS    |
|           |           |                      |              |            | 10         | 8.48             | 0.00339               | ±2.5        | PASS    |
|           |           |                      |              |            | 20         | 2.36             | 0.00094               | ±2.5        | PASS    |
|           |           |                      |              |            | 30         | 1.49             | 0.0006                | ±2.5        | PASS    |
|           |           |                      |              |            | 40         | 7.90             | 0.00316               | ±2.5        | PASS    |
|           |           |                      |              |            | 50         | 1.82             | 0.00073               | ±2.5        | PASS    |
|           |           |                      | MCH          | VN         | -30        | 8.10             | 0.0032                | ±2.5        | PASS    |
|           |           |                      |              |            | -20        | 6.08             | 0.0024                | ±2.5        | PASS    |
|           |           |                      |              |            | -10        | 6.12             | 0.00241               | ±2.5        | PASS    |
|           |           |                      |              |            | 0          | 5.06             | 0.002                 | ±2.5        | PASS    |
|           |           |                      |              |            | 10         | 3.23             | 0.00127               | ±2.5        | PASS    |
|           |           |                      |              |            | 20         | 4.56             | 0.0018                | ±2.5        | PASS    |
|           |           |                      |              |            | 30         | 3.05             | 0.0012                | ±2.5        | PASS    |
|           |           |                      |              |            | 40         | 5.78             | 0.00228               | ±2.5        | PASS    |
|           |           |                      |              |            | 50         | 2.68             | 0.00106               | ±2.5        | PASS    |
|           |           |                      | HCH          | VN         | -30        | 3.13             | 0.00122               | ±2.5        | PASS    |
|           |           |                      |              |            | -20        | 3.38             | 0.00132               | ±2.5        | PASS    |
|           |           |                      |              |            | -10        | 3.05             | 0.00119               | ±2.5        | PASS    |
|           |           |                      |              |            | 0          | 5.98             | 0.00233               | ±2.5        | PASS    |
|           |           |                      |              |            | 10         | 6.52             | 0.00254               | ±2.5        | PASS    |
|           |           |                      |              |            | 20         | 4.65             | 0.00181               | ±2.5        | PASS    |
|           |           |                      |              |            | 30         | -2.80            | -0.00109              | ±2.5        | PASS    |
|           |           |                      |              |            | 40         | 2.43             | 0.00095               | ±2.5        | PASS    |
|           |           |                      |              |            | 50         | 4.35             | 0.00169               | ±2.5        | PASS    |
|           |           | 10                   | LCH          | VN         | -30        | -0.72            | -0.00029              | ±2.5        | PASS    |
|           |           |                      |              |            | -20        | 9.66             | 0.00386               | ±2.5        | PASS    |
|           |           |                      |              |            | -10        | 3.78             | 0.00151               | ±2.5        | PASS    |
|           |           |                      |              |            | 0          | 3.62             | 0.00145               | ±2.5        | PASS    |
|           |           |                      |              |            | 10         | 3.85             | 0.00154               | ±2.5        | PASS    |
|           |           |                      |              |            | 20         | 3.23             | 0.00129               | ±2.5        | PASS    |
|           |           |                      |              |            | 30         | 2.53             | 0.00101               | ±2.5        | PASS    |
|           |           |                      |              |            | 40         | 3.13             | 0.00125               | ±2.5        | PASS    |
|           |           |                      |              |            | 50         | 6.94             | 0.00277               | ±2.5        | PASS    |
|           |           |                      | MCH          | VN         | -30        | -3.85            | -0.00152              | ±2.5        | PASS    |
|           |           |                      |              |            | -20        | 2.96             | 0.00117               | ±2.5        | PASS    |

| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Temp. | Test Volt. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Limit [dBm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|------------|------------------|-----------------------|-------------|---------|
|           |           |                      |              |            | -10        | 5.68             | 0.00224               | ±2.5        | PASS    |
|           |           |                      |              |            | 0          | 1.89             | 0.00075               | ±2.5        | PASS    |
|           |           |                      |              |            | 10         | -0.10            | -0.00004              | ±2.5        | PASS    |
|           |           |                      |              |            | 20         | 5.84             | 0.0023                | ±2.5        | PASS    |
|           |           |                      |              |            | 30         | -1.12            | -0.00044              | ±2.5        | PASS    |
|           |           |                      |              |            | 40         | -1.02            | -0.0004               | ±2.5        | PASS    |
|           |           |                      |              |            | 50         | 3.15             | 0.00124               | ±2.5        | PASS    |
|           |           |                      | HCH          | VN         | -30        | 3.50             | 0.00136               | ±2.5        | PASS    |
|           |           |                      |              |            | -20        | 1.53             | 0.0006                | ±2.5        | PASS    |
|           |           |                      |              |            | -10        | 2.99             | 0.00117               | ±2.5        | PASS    |
|           |           |                      |              |            | 0          | 5.59             | 0.00218               | ±2.5        | PASS    |
|           |           |                      |              |            | 10         | -3.55            | -0.00138              | ±2.5        | PASS    |
|           |           |                      |              |            | 20         | 2.42             | 0.00094               | ±2.5        | PASS    |
|           |           |                      |              |            | 30         | 5.41             | 0.00211               | ±2.5        | PASS    |
|           |           |                      |              |            | 40         | 1.95             | 0.00076               | ±2.5        | PASS    |
|           |           |                      |              |            | 50         | -1.99            | -0.00078              | ±2.5        | PASS    |
|           |           | 15                   | LCH          | VN         | -30        | 2.52             | 0.001                 | ±2.5        | PASS    |
|           |           |                      |              |            | -20        | -0.43            | -0.00017              | ±2.5        | PASS    |
|           |           |                      |              |            | -10        | 4.94             | 0.00197               | ±2.5        | PASS    |
|           |           |                      |              |            | 0          | -0.53            | -0.00021              | ±2.5        | PASS    |
|           |           |                      |              |            | 10         | -0.40            | -0.00016              | ±2.5        | PASS    |
|           |           |                      |              |            | 20         | 3.42             | 0.00136               | ±2.5        | PASS    |
|           |           |                      |              |            | 30         | 0.84             | 0.00033               | ±2.5        | PASS    |
|           |           |                      |              |            | 40         | 0.43             | 0.00017               | ±2.5        | PASS    |
|           |           |                      |              |            | 50         | 1.29             | 0.00051               | ±2.5        | PASS    |
|           |           |                      |              | VN         | -30        | -0.53            | -0.00021              | ±2.5        | PASS    |
|           |           |                      |              |            | -20        | 3.28             | 0.00129               | ±2.5        | PASS    |
|           |           |                      |              |            | -10        | 0.89             | 0.00035               | ±2.5        | PASS    |
|           |           |                      |              |            | 0          | 0.34             | 0.00013               | ±2.5        | PASS    |
|           |           |                      |              |            | 10         | 1.76             | 0.00069               | ±2.5        | PASS    |
|           |           |                      |              |            | 20         | 4.03             | 0.00159               | ±2.5        | PASS    |
|           |           |                      |              |            | 30         | 4.36             | 0.00172               | ±2.5        | PASS    |
|           |           |                      |              |            | 40         | 0.07             | 0.00003               | ±2.5        | PASS    |
|           |           |                      |              |            | 50         | 1.06             | 0.00042               | ±2.5        | PASS    |
|           |           |                      | HCH          | VN         | -30        | -3.63            | -0.00142              | ±2.5        | PASS    |
|           |           |                      |              |            | -20        | 4.06             | 0.00158               | ±2.5        | PASS    |
|           |           |                      |              |            | -10        | 1.19             | 0.00046               | ±2.5        | PASS    |
|           |           |                      |              |            | 0          | 0.24             | 0.00009               | ±2.5        | PASS    |
|           |           |                      |              |            | 10         | 2.23             | 0.00087               | ±2.5        | PASS    |

| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Temp. | Test Volt. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Limit [dBm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|------------|------------------|-----------------------|-------------|---------|
|           |           |                      |              |            | 20         | 4.42             | 0.00172               | ±2.5        | PASS    |
|           |           |                      |              |            | 30         | -1.02            | -0.0004               | ±2.5        | PASS    |
|           |           |                      |              |            | 40         | -1.40            | -0.00055              | ±2.5        | PASS    |
|           |           |                      |              |            | 50         | 0.86             | 0.00034               | ±2.5        | PASS    |
|           |           |                      | LCH          | VN         | -30        | -0.20            | -0.00008              | ±2.5        | PASS    |
|           |           |                      |              |            | -20        | 2.25             | 0.0009                | ±2.5        | PASS    |
|           |           |                      |              |            | -10        | 5.84             | 0.00233               | ±2.5        | PASS    |
|           |           |                      |              |            | 0          | -0.50            | -0.0002               | ±2.5        | PASS    |
|           |           |                      |              |            | 10         | 0.29             | 0.00012               | ±2.5        | PASS    |
|           |           |                      |              |            | 20         | 1.34             | 0.00053               | ±2.5        | PASS    |
|           |           |                      |              |            | 30         | -0.14            | -0.00006              | ±2.5        | PASS    |
|           |           |                      |              |            | 40         | 0.17             | 0.00007               | ±2.5        | PASS    |
|           |           |                      |              |            | 50         | 2.30             | 0.00092               | ±2.5        | PASS    |
|           |           |                      | MCH          | VN         | -30        | 4.35             | 0.00172               | ±2.5        | PASS    |
|           |           |                      |              |            | -20        | 1.06             | 0.00042               | ±2.5        | PASS    |
|           |           |                      |              |            | -10        | 1.33             | 0.00052               | ±2.5        | PASS    |
|           |           |                      |              |            | 0          | 3.39             | 0.00134               | ±2.5        | PASS    |
|           |           |                      |              |            | 10         | -1.27            | -0.0005               | ±2.5        | PASS    |
|           |           |                      |              |            | 20         | 3.43             | 0.00135               | ±2.5        | PASS    |
|           |           |                      |              |            | 30         | 0.00             | 0                     | ±2.5        | PASS    |
|           |           |                      |              |            | 40         | -1.53            | -0.0006               | ±2.5        | PASS    |
|           |           |                      |              |            | 50         | 3.69             | 0.00146               | ±2.5        | PASS    |
|           |           |                      | HCH          | VN         | -30        | 1.03             | 0.0004                | ±2.5        | PASS    |
|           |           |                      |              |            | -20        | -3.28            | -0.00128              | ±2.5        | PASS    |
|           |           |                      |              |            | -10        | 3.53             | 0.00138               | ±2.5        | PASS    |
|           |           |                      |              |            | 0          | 2.98             | 0.00116               | ±2.5        | PASS    |
|           |           |                      |              |            | 10         | -4.05            | -0.00158              | ±2.5        | PASS    |
|           |           |                      |              |            | 20         | 0.92             | 0.00036               | ±2.5        | PASS    |
|           |           |                      |              |            | 30         | 3.86             | 0.00151               | ±2.5        | PASS    |
|           |           |                      |              |            | 40         | 0.10             | 0.00004               | ±2.5        | PASS    |
|           |           |                      |              |            | 50         | 7.04             | 0.00275               | ±2.5        | PASS    |
|           | LTE/TM2   | 5                    | LCH          | VN         | -30        | 8.00             | 0.0032                | ±2.5        | PASS    |
|           |           |                      |              |            | -20        | 6.38             | 0.00255               | ±2.5        | PASS    |
|           |           |                      |              |            | -10        | 8.24             | 0.00329               | ±2.5        | PASS    |
|           |           |                      |              |            | 0          | 5.92             | 0.00237               | ±2.5        | PASS    |
|           |           |                      |              |            | 10         | 6.27             | 0.00251               | ±2.5        | PASS    |
|           |           |                      |              |            | 20         | 1.72             | 0.00069               | ±2.5        | PASS    |
|           |           |                      |              |            | 30         | 1.22             | 0.00049               | ±2.5        | PASS    |
|           |           |                      |              |            | 40         | 3.85             | 0.00154               | ±2.5        | PASS    |

| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Temp. | Test Volt. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Limit [dBm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|------------|------------------|-----------------------|-------------|---------|
|           |           |                      | MCH          | VN         | 50         | 3.22             | 0.00129               | ±2.5        | PASS    |
|           |           |                      |              |            | -30        | 2.30             | 0.00091               | ±2.5        | PASS    |
|           |           |                      |              |            | -20        | 4.58             | 0.00181               | ±2.5        | PASS    |
|           |           |                      |              |            | -10        | -0.56            | -0.00022              | ±2.5        | PASS    |
|           |           |                      |              |            | 0          | 5.68             | 0.00224               | ±2.5        | PASS    |
|           |           |                      |              |            | 10         | 3.48             | 0.00137               | ±2.5        | PASS    |
|           |           |                      |              |            | 20         | 5.56             | 0.00219               | ±2.5        | PASS    |
|           |           |                      |              |            | 30         | 1.80             | 0.00071               | ±2.5        | PASS    |
|           |           |                      |              |            | 40         | 3.56             | 0.0014                | ±2.5        | PASS    |
|           |           |                      |              |            | 50         | 3.81             | 0.0015                | ±2.5        | PASS    |
|           |           |                      | HCH          | VN         | -30        | 0.11             | 0.00004               | ±2.5        | PASS    |
|           |           |                      |              |            | -20        | -0.50            | -0.00019              | ±2.5        | PASS    |
|           |           |                      |              |            | -10        | -0.63            | -0.00025              | ±2.5        | PASS    |
|           |           |                      |              |            | 0          | 1.85             | 0.00072               | ±2.5        | PASS    |
|           |           |                      |              |            | 10         | 4.19             | 0.00163               | ±2.5        | PASS    |
|           |           |                      |              |            | 20         | 1.50             | 0.00058               | ±2.5        | PASS    |
|           |           |                      |              |            | 30         | 6.79             | 0.00264               | ±2.5        | PASS    |
|           |           |                      |              |            | 40         | 8.97             | 0.00349               | ±2.5        | PASS    |
|           |           |                      |              |            | 50         | 2.86             | 0.00111               | ±2.5        | PASS    |
|           |           | 10                   | LCH          | VN         | -30        | 3.92             | 0.00156               | ±2.5        | PASS    |
|           |           |                      |              |            | -20        | 4.94             | 0.00197               | ±2.5        | PASS    |
|           |           |                      |              |            | -10        | -0.07            | -0.00003              | ±2.5        | PASS    |
|           |           |                      |              |            | 0          | 1.13             | 0.00045               | ±2.5        | PASS    |
|           |           |                      |              |            | 10         | 2.45             | 0.00098               | ±2.5        | PASS    |
|           |           |                      |              |            | 20         | 2.55             | 0.00102               | ±2.5        | PASS    |
|           |           |                      |              |            | 30         | 1.13             | 0.00045               | ±2.5        | PASS    |
|           |           |                      |              |            | 40         | -1.16            | -0.00046              | ±2.5        | PASS    |
|           |           |                      |              |            | 50         | 2.85             | 0.00114               | ±2.5        | PASS    |
|           |           |                      | MCH          | VN         | -30        | 4.21             | 0.00166               | ±2.5        | PASS    |
|           |           |                      |              |            | -20        | -5.38            | -0.00212              | ±2.5        | PASS    |
|           |           |                      |              |            | -10        | -2.53            | -0.001                | ±2.5        | PASS    |
|           |           |                      |              |            | 0          | 1.09             | 0.00043               | ±2.5        | PASS    |
|           |           |                      |              |            | 10         | 4.69             | 0.00185               | ±2.5        | PASS    |
|           |           |                      |              |            | 20         | 2.55             | 0.00101               | ±2.5        | PASS    |
|           |           |                      |              |            | 30         | 3.23             | 0.00127               | ±2.5        | PASS    |
|           |           |                      |              |            | 40         | 1.89             | 0.00075               | ±2.5        | PASS    |
|           |           |                      |              |            | 50         | 1.47             | 0.00058               | ±2.5        | PASS    |
|           |           |                      | HCH          | VN         | -30        | -0.01            | 0                     | ±2.5        | PASS    |
|           |           |                      |              |            | -20        | 2.43             | 0.00095               | ±2.5        | PASS    |

| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Temp. | Test Volt. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Limit [dBm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|------------|------------------|-----------------------|-------------|---------|
|           |           |                      |              |            | -10        | 3.55             | 0.00138               | ±2.5        | PASS    |
|           |           |                      |              |            | 0          | -2.17            | -0.00085              | ±2.5        | PASS    |
|           |           |                      |              |            | 10         | -1.06            | -0.00041              | ±2.5        | PASS    |
|           |           |                      |              |            | 20         | 4.41             | 0.00172               | ±2.5        | PASS    |
|           |           |                      |              |            | 30         | -1.02            | -0.0004               | ±2.5        | PASS    |
|           |           |                      |              |            | 40         | -0.47            | -0.00018              | ±2.5        | PASS    |
|           |           |                      |              |            | 50         | 7.52             | 0.00293               | ±2.5        | PASS    |
|           |           | 15                   | LCH          | VN         | -30        | 1.16             | 0.00046               | ±2.5        | PASS    |
|           |           |                      |              |            | -20        | 2.00             | 0.0008                | ±2.5        | PASS    |
|           |           |                      |              |            | -10        | 1.92             | 0.00077               | ±2.5        | PASS    |
|           |           |                      |              |            | 0          | -0.26            | -0.0001               | ±2.5        | PASS    |
|           |           |                      |              |            | 10         | 0.72             | 0.00029               | ±2.5        | PASS    |
|           |           |                      |              |            | 20         | 0.99             | 0.00039               | ±2.5        | PASS    |
|           |           |                      |              |            | 30         | 2.02             | 0.00081               | ±2.5        | PASS    |
|           |           |                      |              |            | 40         | -0.73            | -0.00029              | ±2.5        | PASS    |
|           |           |                      |              |            | 50         | 5.68             | 0.00227               | ±2.5        | PASS    |
|           |           |                      | MCH          | VN         | -30        | 2.72             | 0.00107               | ±2.5        | PASS    |
|           |           |                      |              |            | -20        | -3.28            | -0.00129              | ±2.5        | PASS    |
|           |           |                      |              |            | -10        | -3.88            | -0.00153              | ±2.5        | PASS    |
|           |           |                      |              |            | 0          | -2.22            | -0.00088              | ±2.5        | PASS    |
|           |           |                      |              |            | 10         | 1.16             | 0.00046               | ±2.5        | PASS    |
|           |           |                      |              |            | 20         | 2.85             | 0.00112               | ±2.5        | PASS    |
|           |           |                      |              |            | 30         | 0.74             | 0.00029               | ±2.5        | PASS    |
|           |           |                      |              |            | 40         | 0.37             | 0.00015               | ±2.5        | PASS    |
|           |           |                      |              |            | 50         | 0.66             | 0.00026               | ±2.5        | PASS    |
|           |           |                      | HCH          | VN         | -30        | -2.75            | -0.00107              | ±2.5        | PASS    |
|           |           |                      |              |            | -20        | 9.46             | 0.00369               | ±2.5        | PASS    |
|           |           |                      |              |            | -10        | -6.27            | -0.00245              | ±2.5        | PASS    |
|           |           |                      |              |            | 0          | 1.82             | 0.00071               | ±2.5        | PASS    |
|           |           |                      |              |            | 10         | 2.42             | 0.00094               | ±2.5        | PASS    |
|           |           |                      |              |            | 20         | 1.12             | 0.00044               | ±2.5        | PASS    |
|           |           |                      |              |            | 30         | -1.20            | -0.00047              | ±2.5        | PASS    |
|           |           |                      |              |            | 40         | 0.04             | 0.00002               | ±2.5        | PASS    |
|           |           |                      |              |            | 50         | -1.67            | -0.00065              | ±2.5        | PASS    |
|           |           | 20                   | LCH          | VN         | -30        | 7.08             | 0.00282               | ±2.5        | PASS    |
|           |           |                      |              |            | -20        | 4.35             | 0.00173               | ±2.5        | PASS    |
|           |           |                      |              |            | -10        | -0.27            | -0.00011              | ±2.5        | PASS    |
|           |           |                      |              |            | 0          | 5.95             | 0.00237               | ±2.5        | PASS    |
|           |           |                      |              |            | 10         | 0.20             | 0.00008               | ±2.5        | PASS    |

| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Temp. | Test Volt. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Limit [dBm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|------------|------------------|-----------------------|-------------|---------|
|           |           |                      |              |            | 20         | 3.30             | 0.00131               | ±2.5        | PASS    |
|           |           |                      |              |            | 30         | 1.22             | 0.00049               | ±2.5        | PASS    |
|           |           |                      |              |            | 40         | -1.42            | -0.00057              | ±2.5        | PASS    |
|           |           |                      |              |            | 50         | -1.43            | -0.00057              | ±2.5        | PASS    |
|           |           |                      | MCH          | VN         | -30        | 2.03             | 0.0008                | ±2.5        | PASS    |
|           |           |                      |              |            | -20        | 3.81             | 0.0015                | ±2.5        | PASS    |
|           |           |                      |              |            | -10        | 4.45             | 0.00176               | ±2.5        | PASS    |
|           |           |                      |              |            | 0          | -3.49            | -0.00138              | ±2.5        | PASS    |
|           |           |                      |              |            | 10         | 0.84             | 0.00033               | ±2.5        | PASS    |
|           |           |                      |              |            | 20         | 0.27             | 0.00011               | ±2.5        | PASS    |
|           |           |                      |              |            | 30         | 3.60             | 0.00142               | ±2.5        | PASS    |
|           |           |                      |              |            | 40         | 0.62             | 0.00024               | ±2.5        | PASS    |
|           |           |                      |              |            | 50         | 2.20             | 0.00087               | ±2.5        | PASS    |
|           |           |                      | HCH          | VN         | -30        | 1.39             | 0.00054               | ±2.5        | PASS    |
|           |           |                      |              |            | -20        | 3.65             | 0.00143               | ±2.5        | PASS    |
|           |           |                      |              |            | -10        | -2.05            | -0.0008               | ±2.5        | PASS    |
|           |           |                      |              |            | 0          | 0.04             | 0.00002               | ±2.5        | PASS    |
|           |           |                      |              |            | 10         | -2.23            | -0.00087              | ±2.5        | PASS    |
|           |           |                      |              |            | 20         | -1.86            | -0.00073              | ±2.5        | PASS    |
|           |           |                      |              |            | 30         | 3.91             | 0.00153               | ±2.5        | PASS    |
|           |           |                      |              |            | 40         | 0.14             | 0.00005               | ±2.5        | PASS    |
|           |           |                      |              |            | 50         | 0.41             | 0.00016               | ±2.5        | PASS    |

END