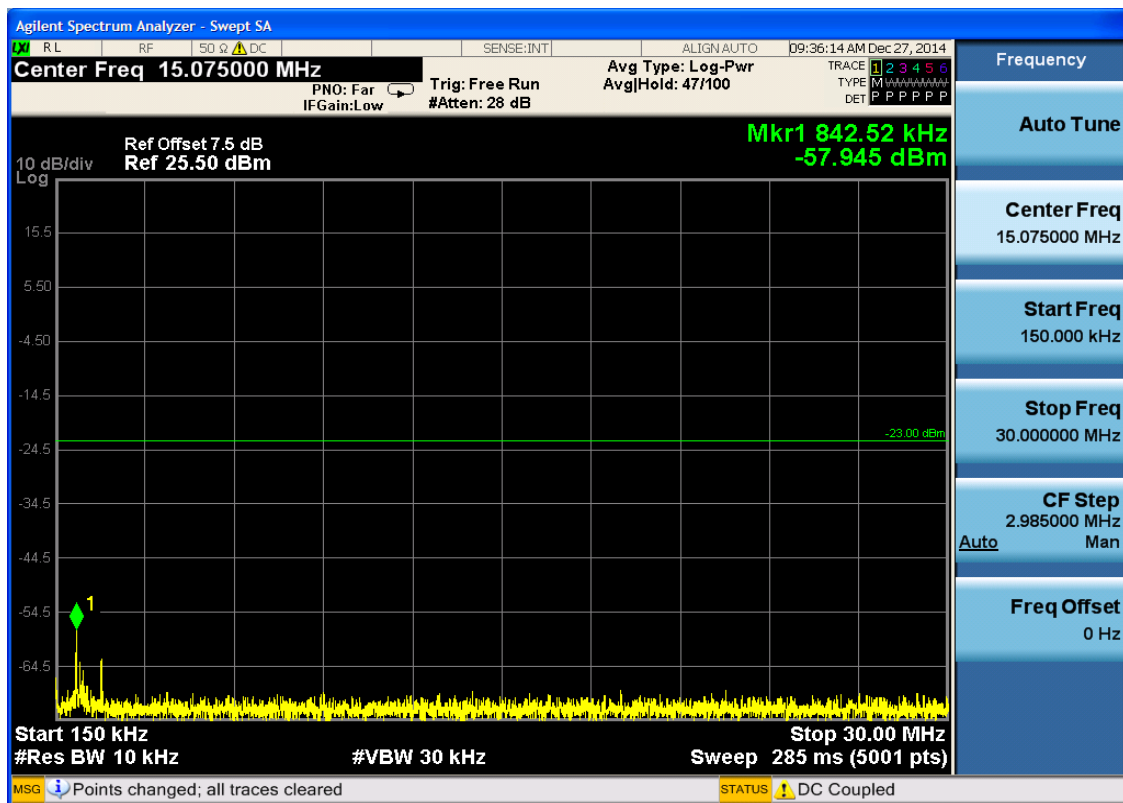
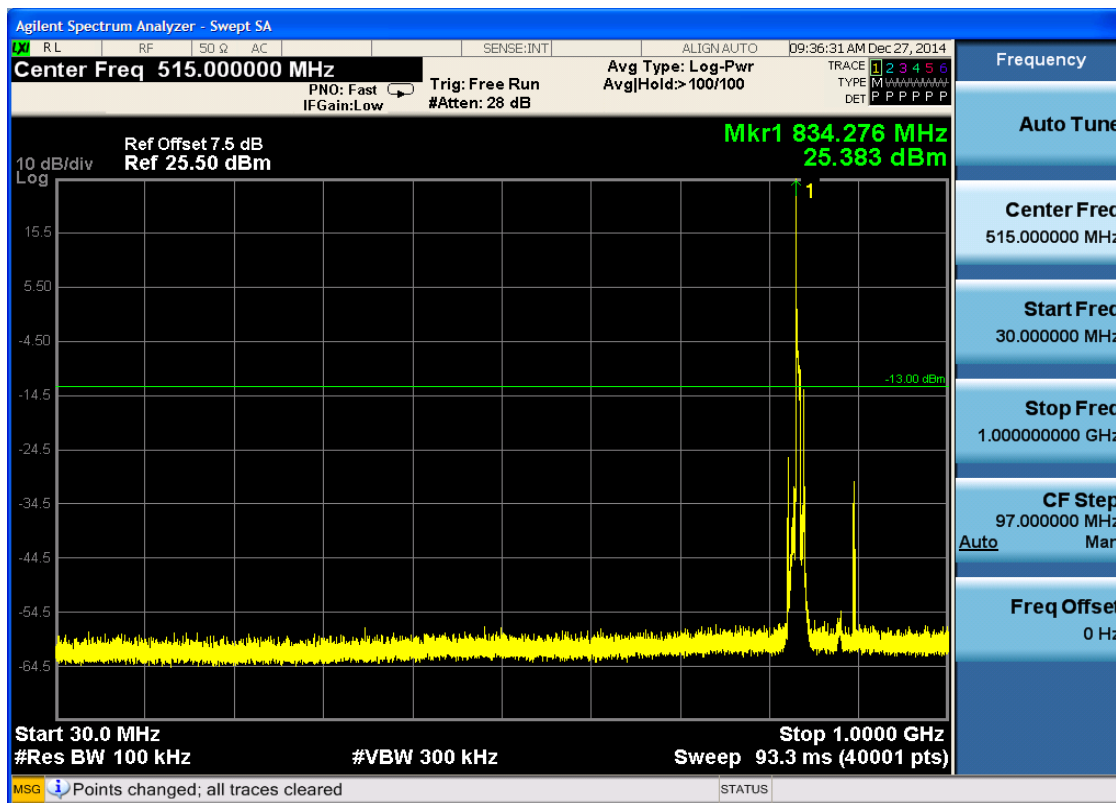
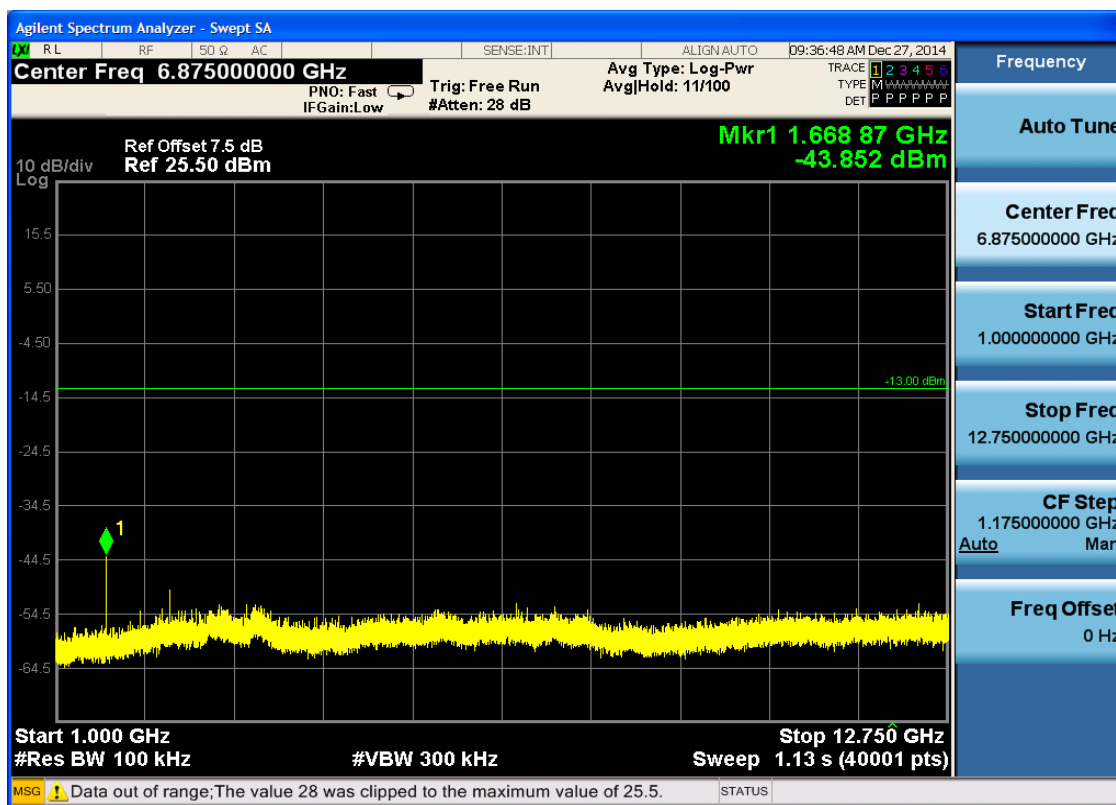


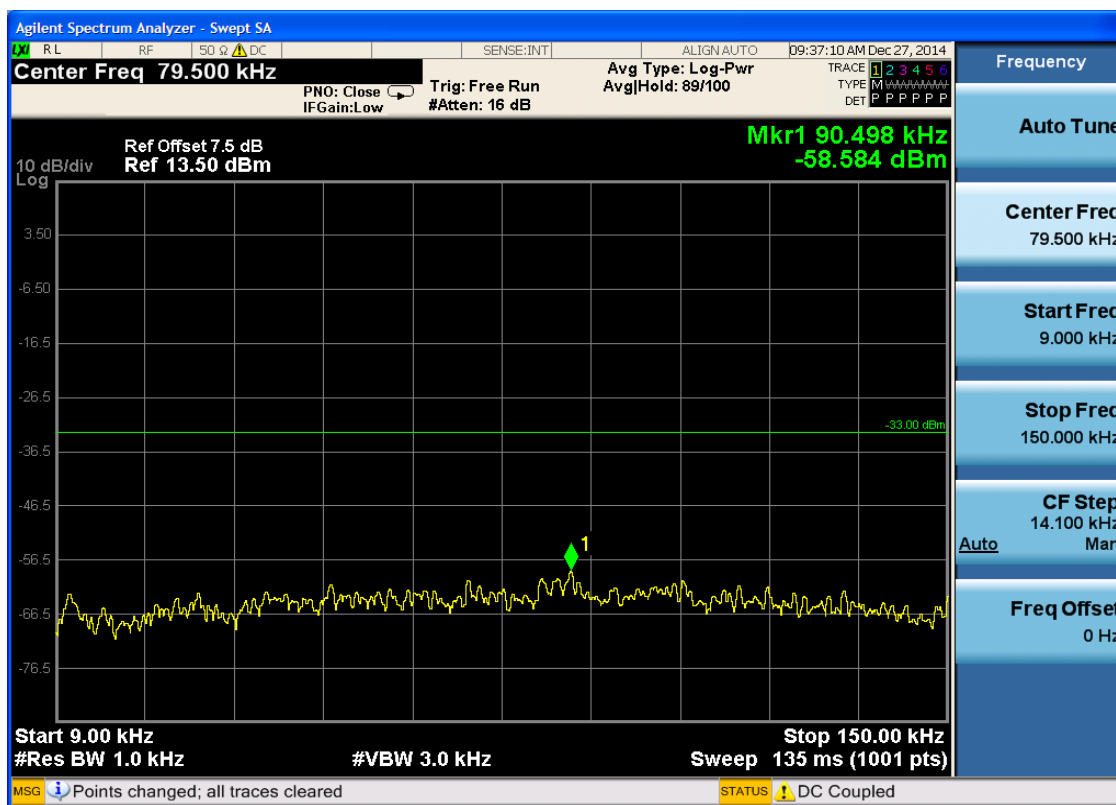


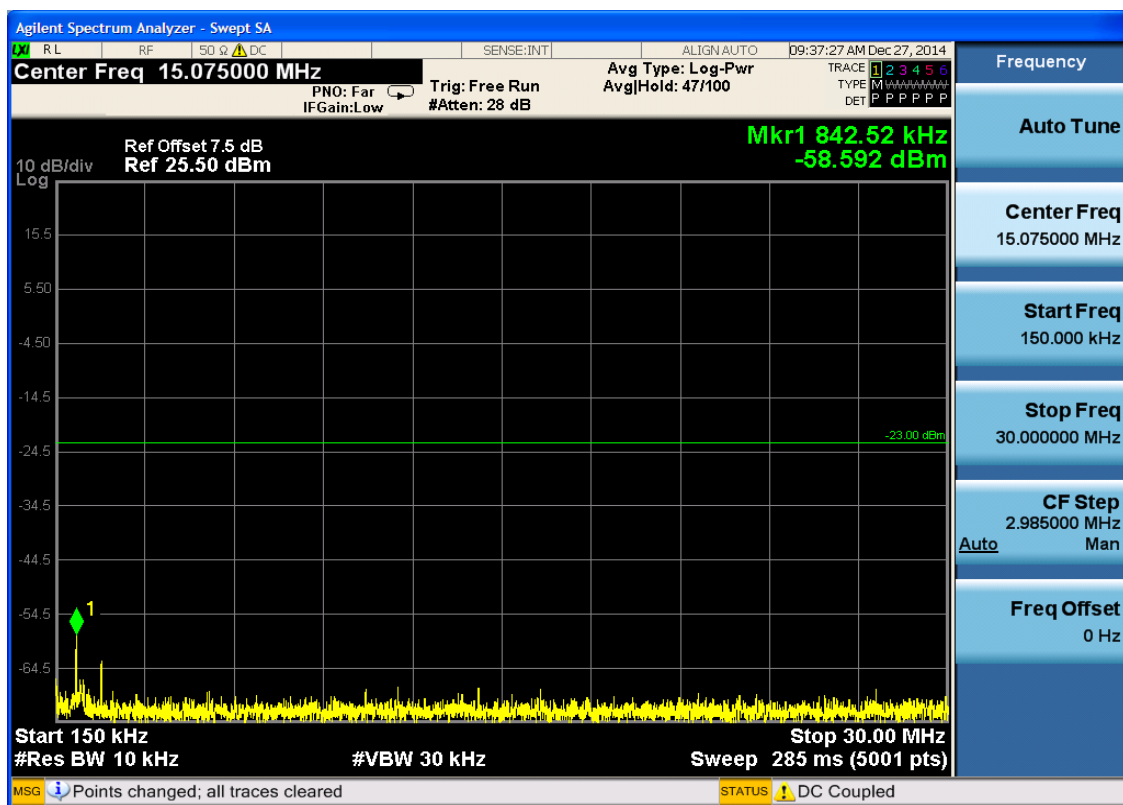


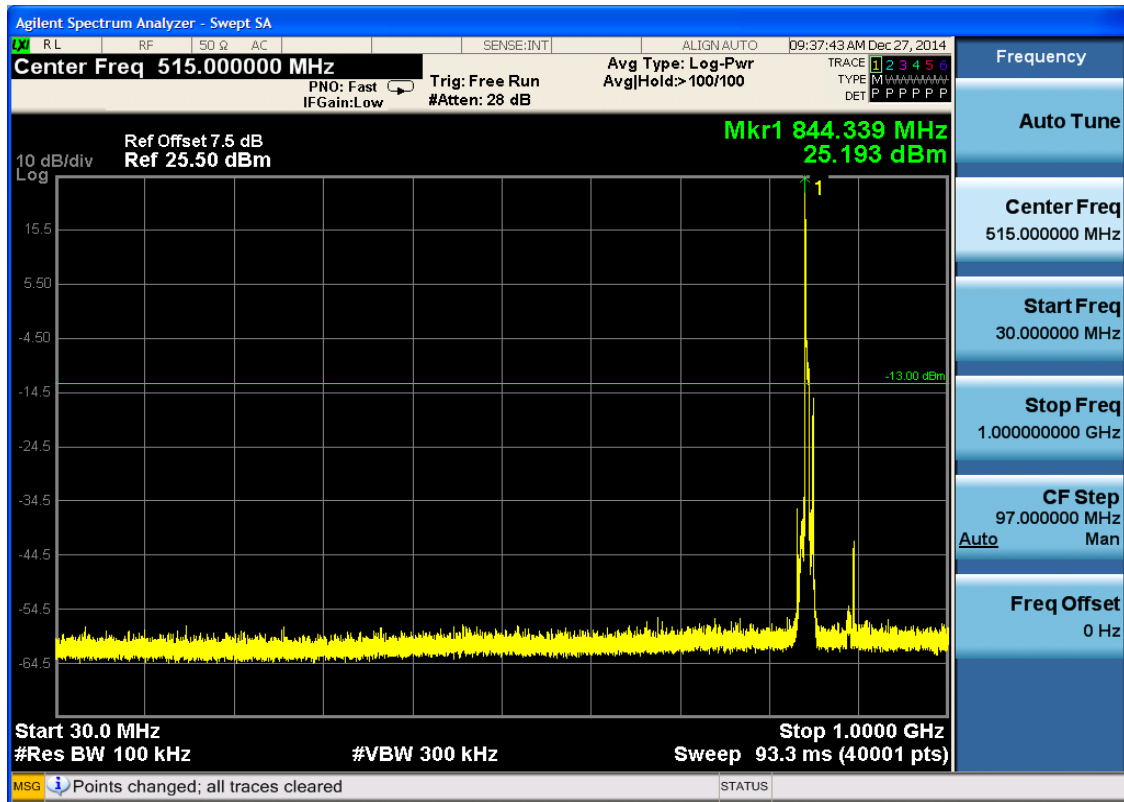


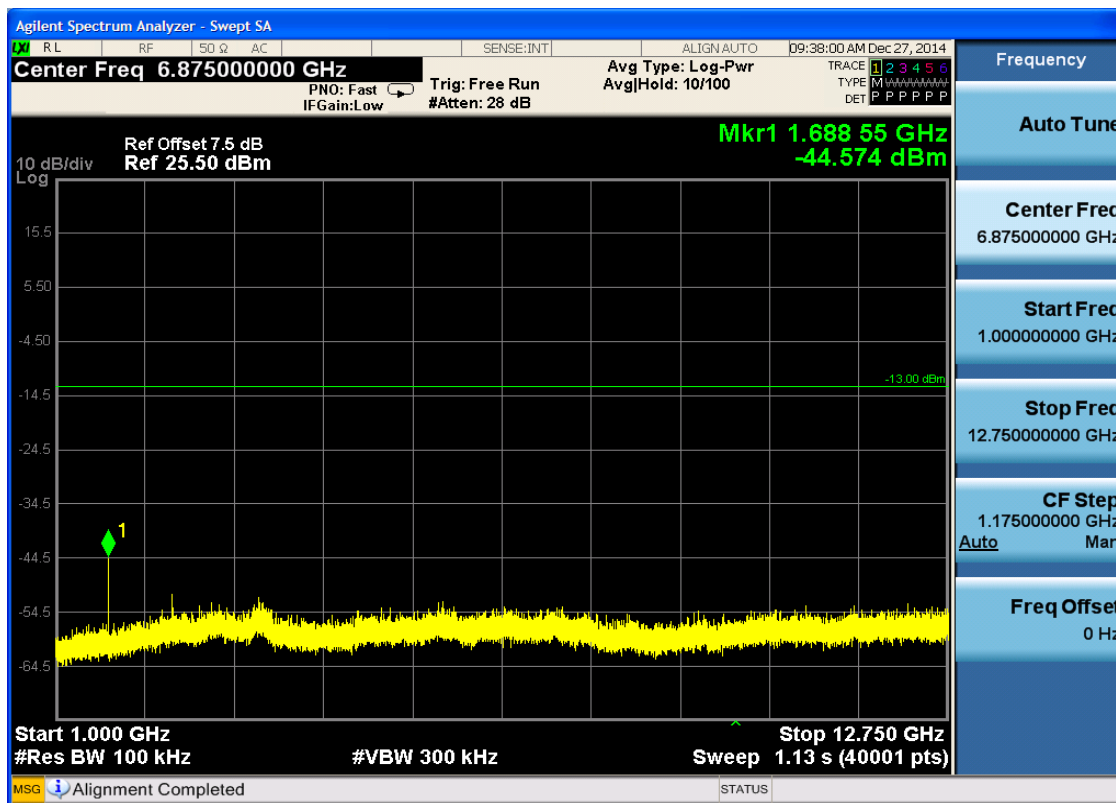
### 6.3.3.1.1.3 Test Channel = HCH

#### 6.3.3.1.1.3.1 Test RB = RB1#0







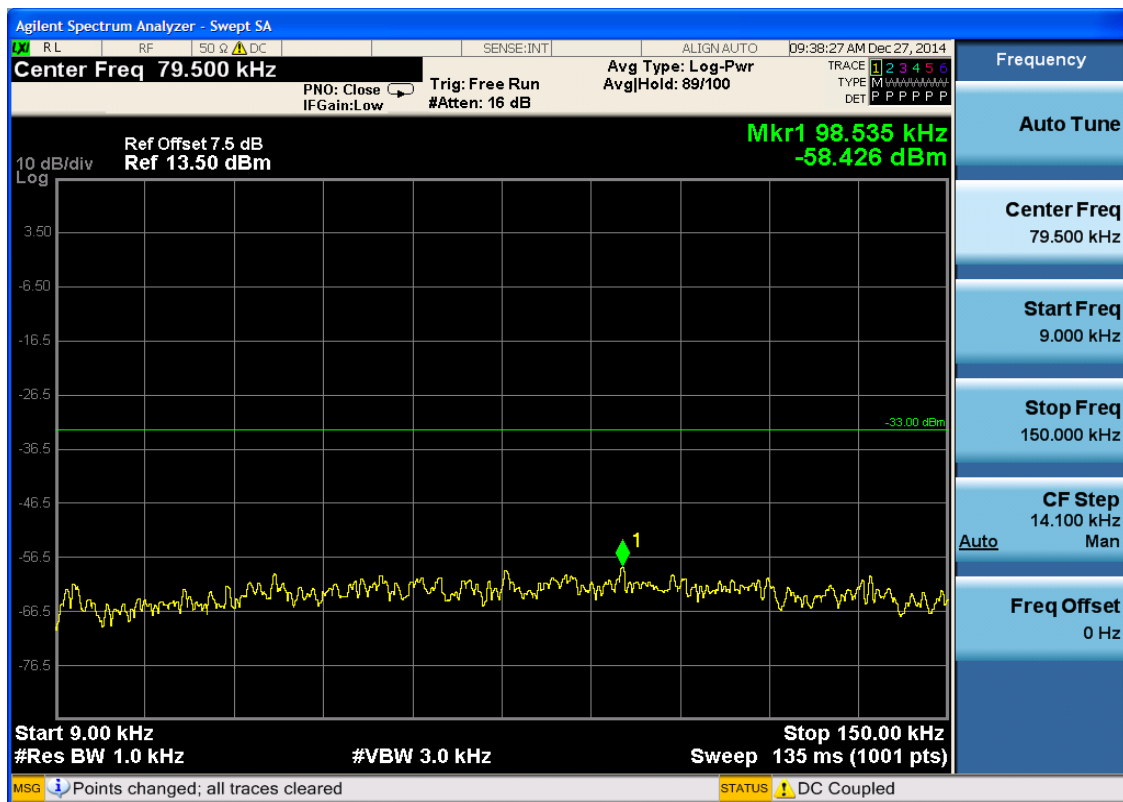


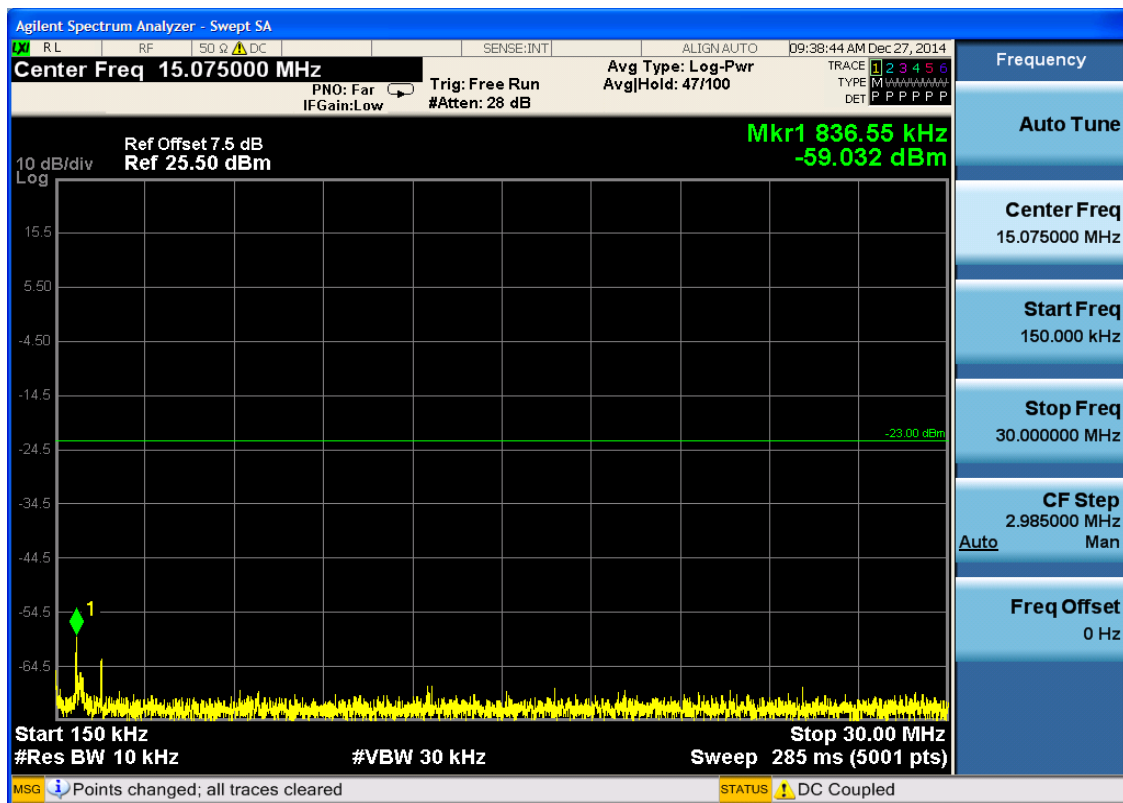


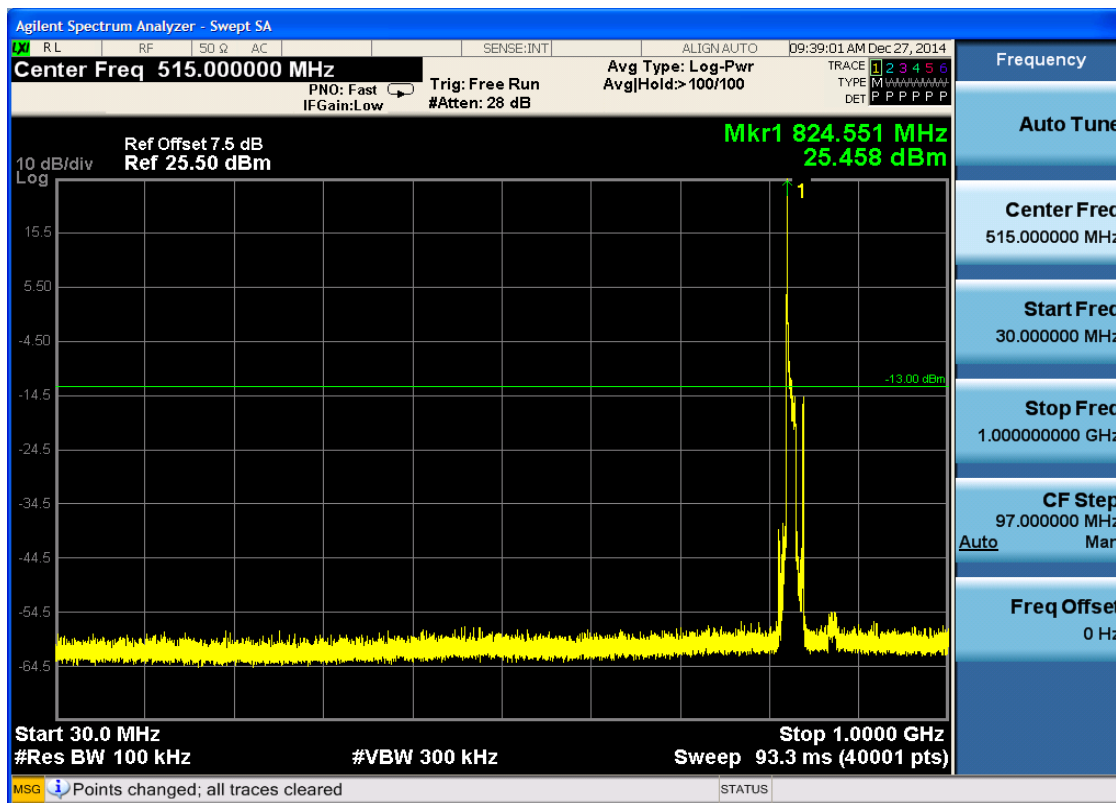
## 6.3.3.1.2 Test Bandwidth = 10

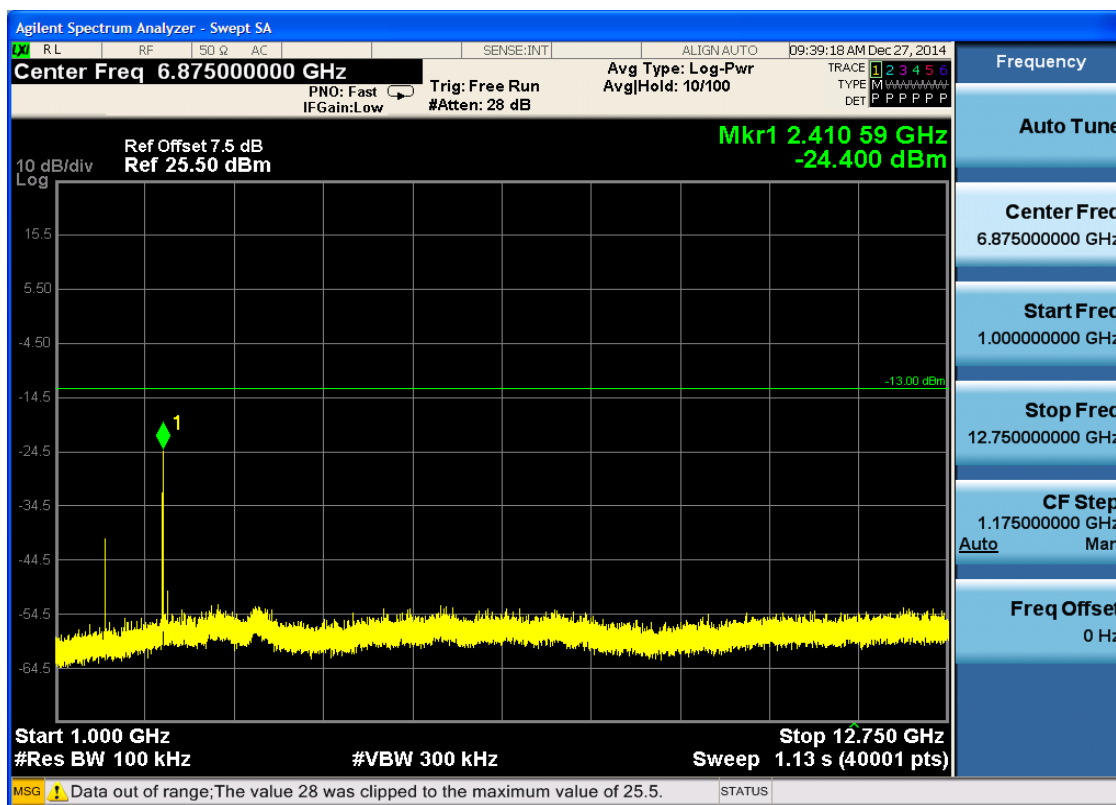
## 6.3.3.1.2.1 Test Channel = LCH

## 6.3.3.1.2.1.1 Test RB = RB1#0



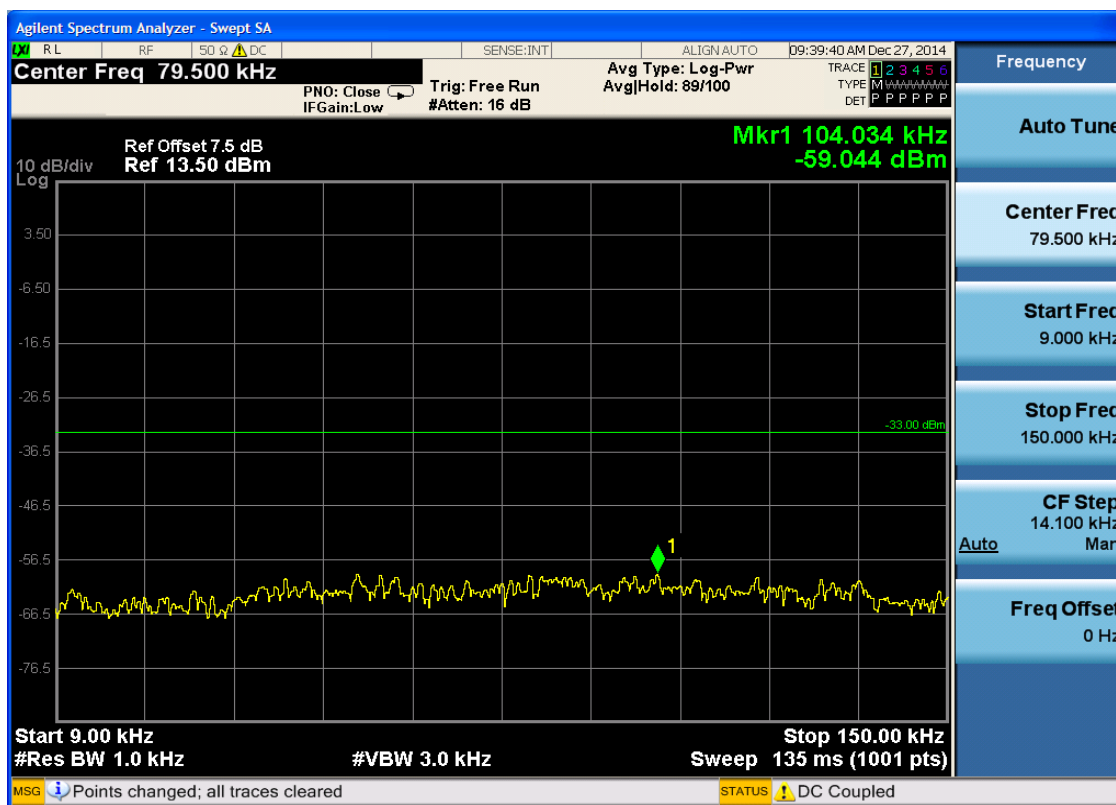


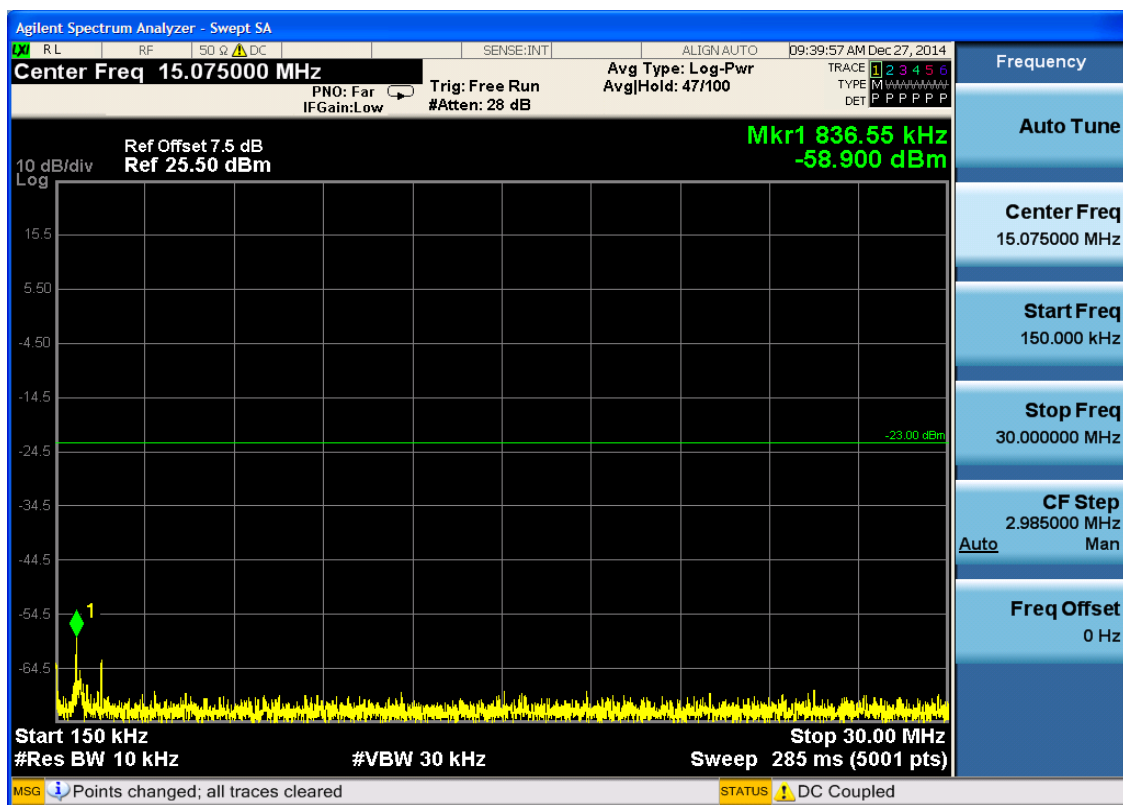


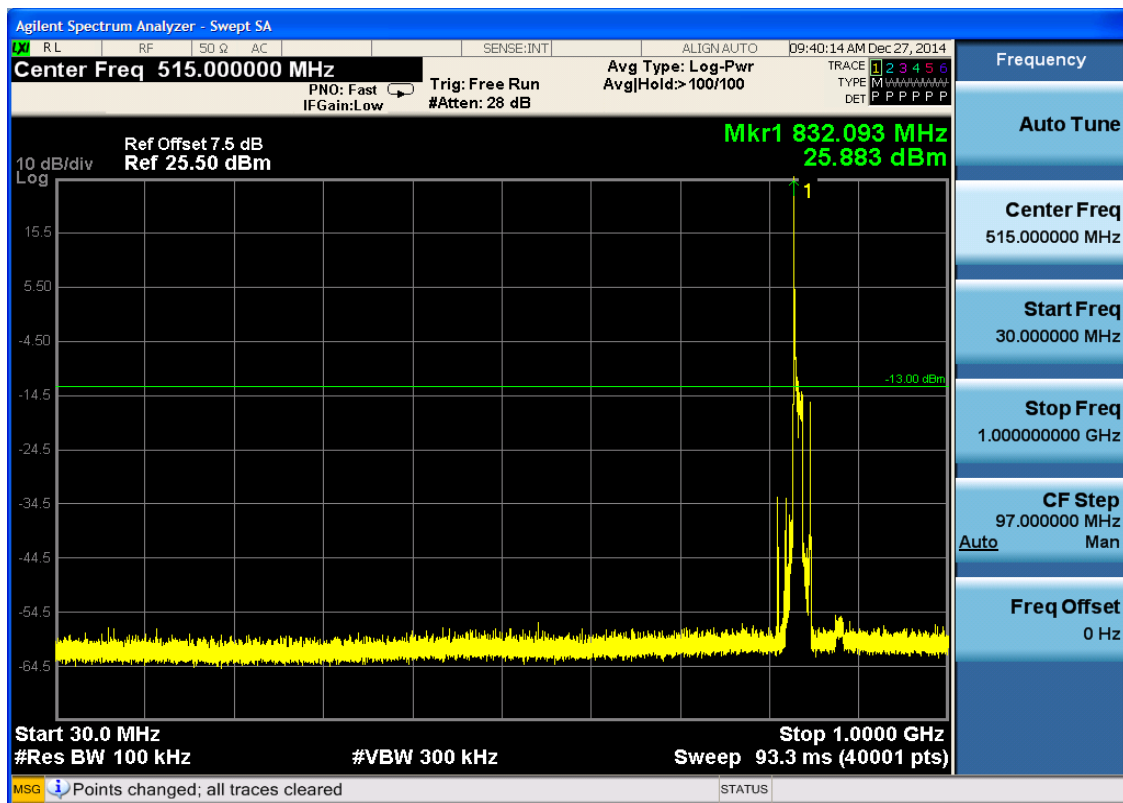


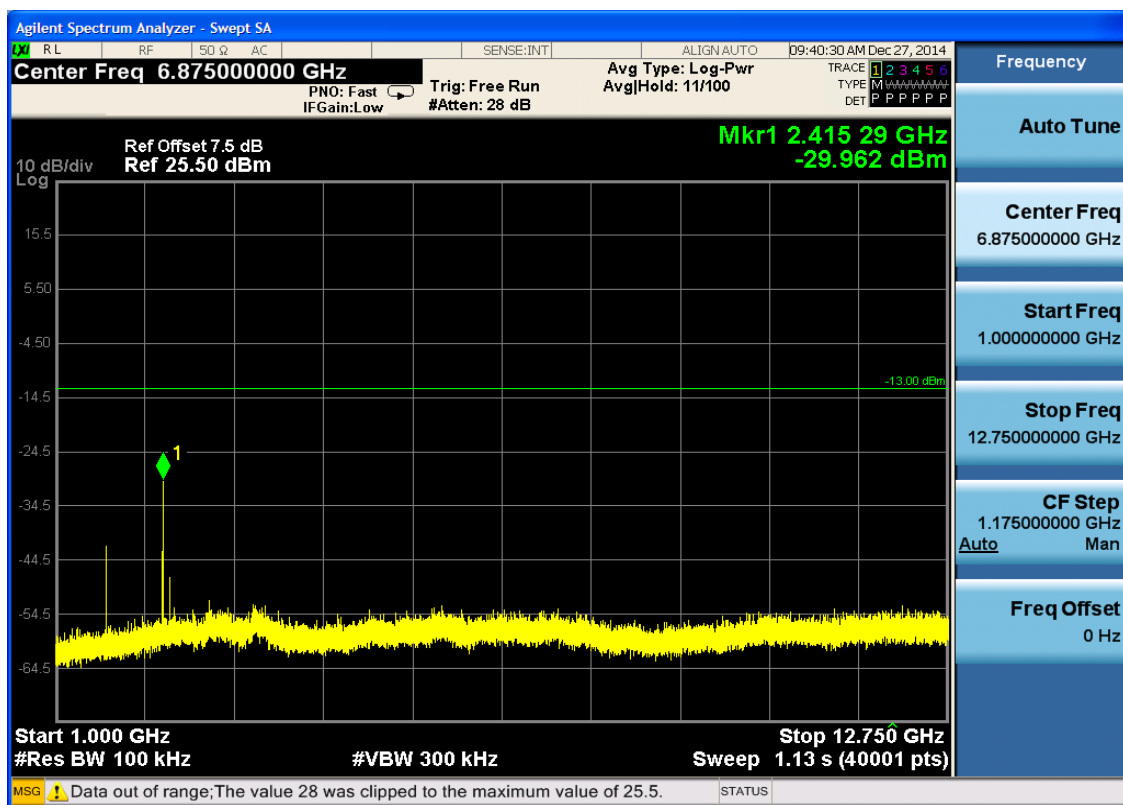
### 6.3.3.1.2.2 Test Channel = MCH

#### 6.3.3.1.2.2.1 Test RB = RB1#0



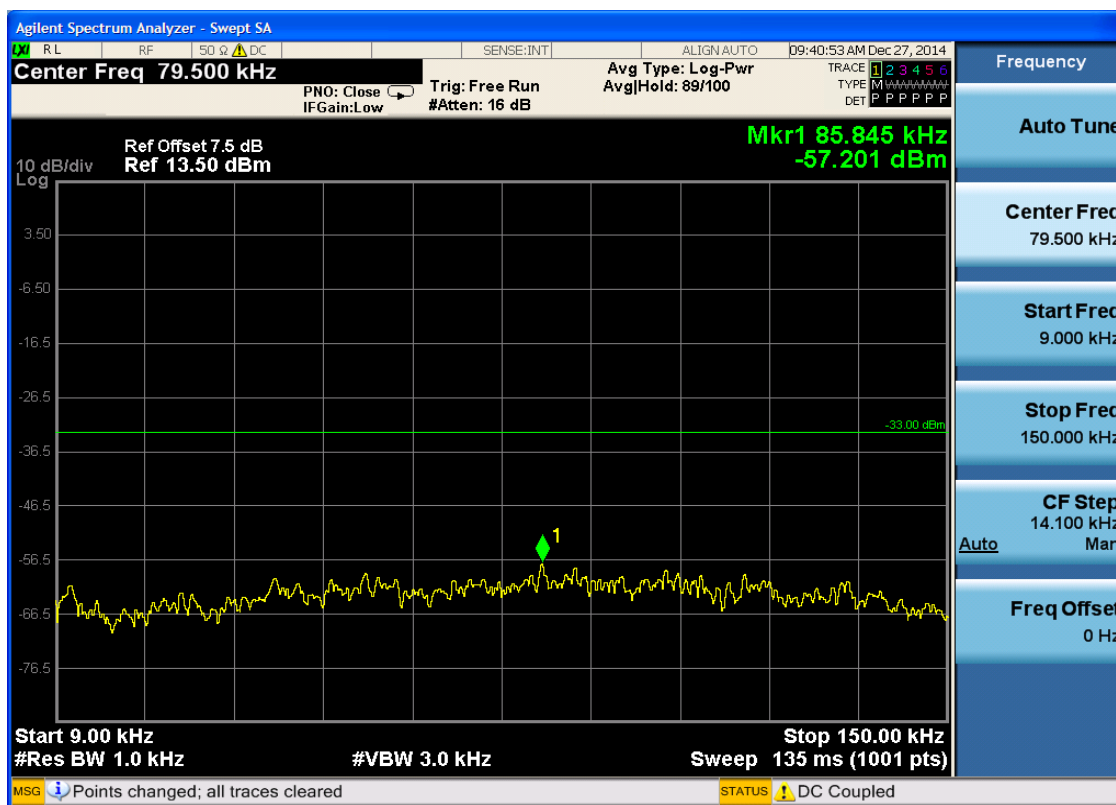


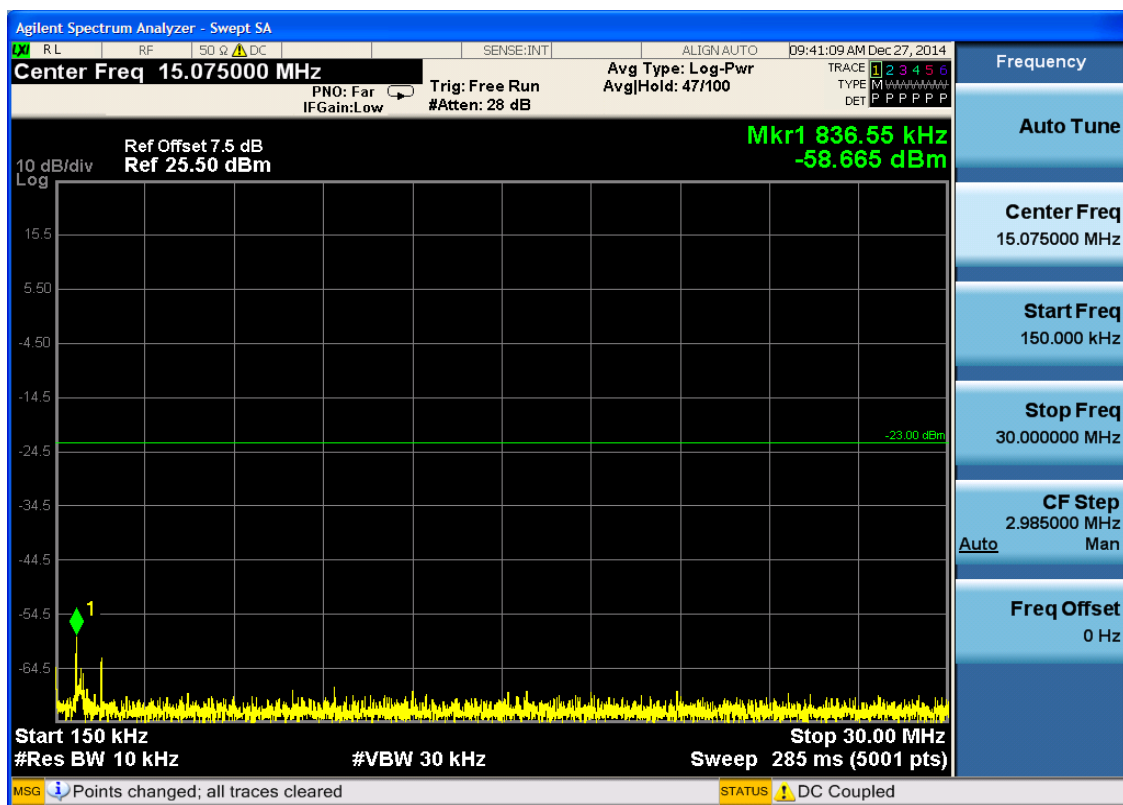


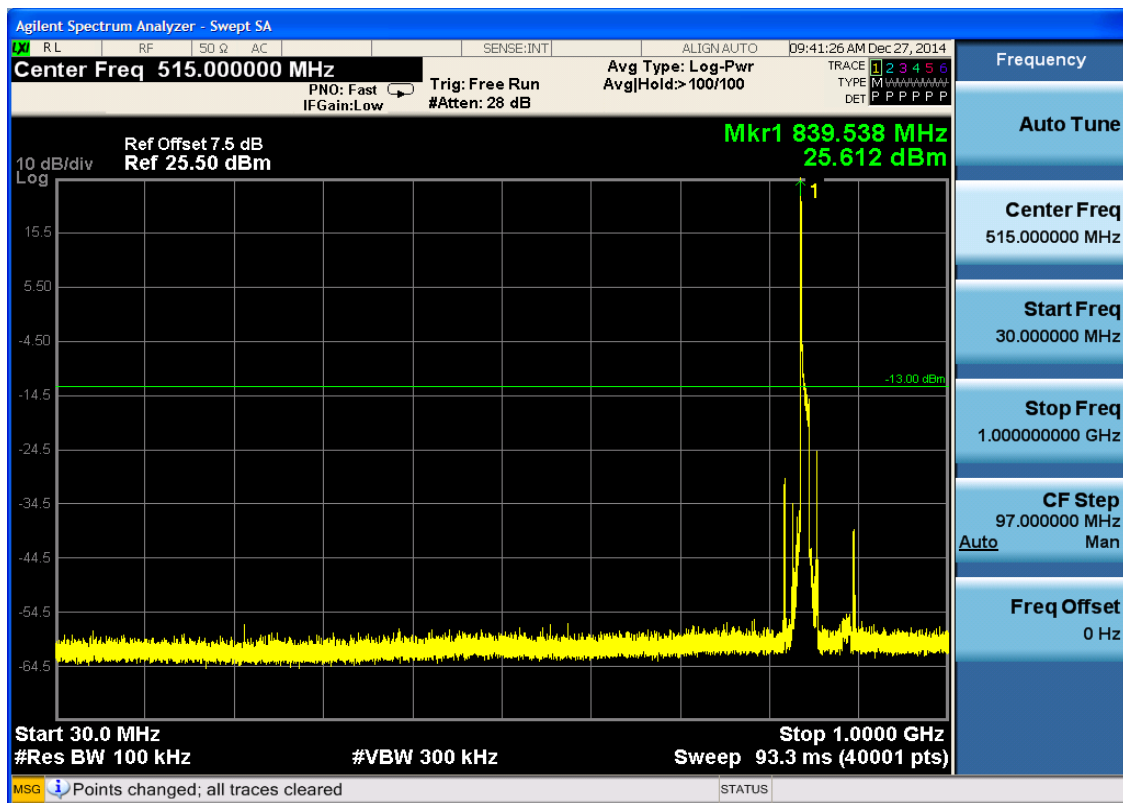


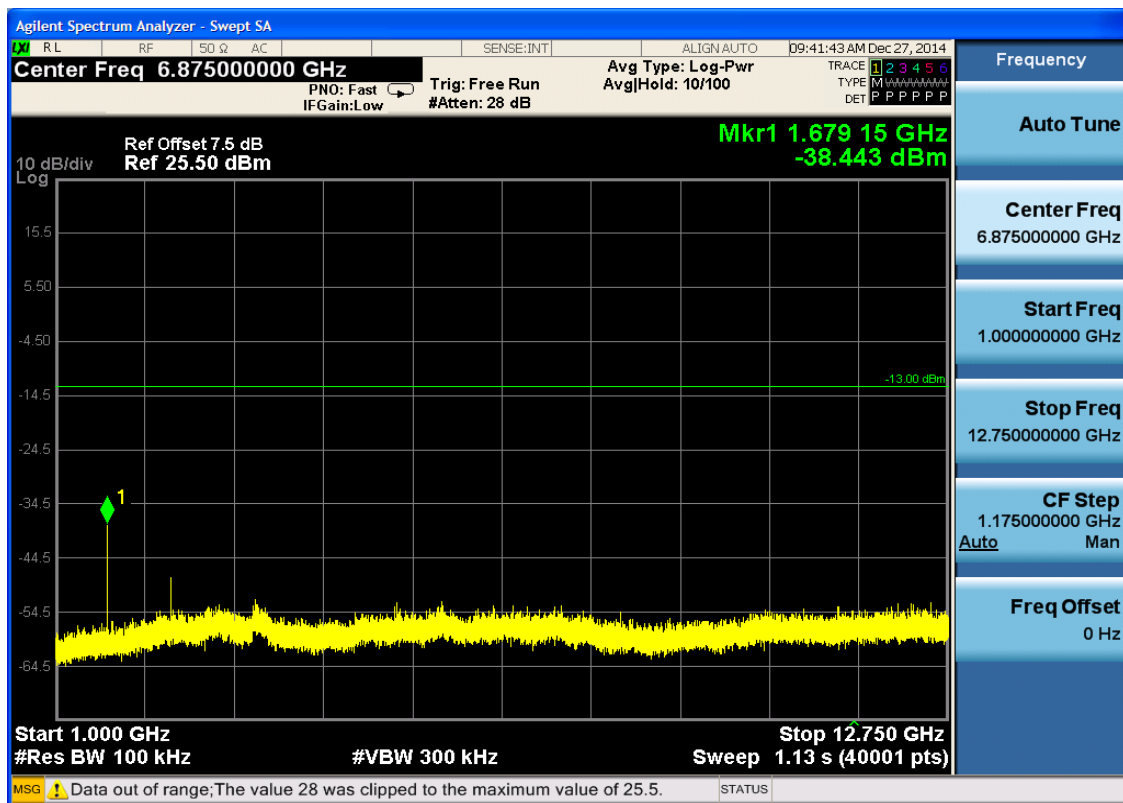
### 6.3.3.1.2.3 Test Channel = HCH

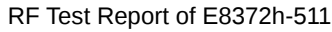
#### 6.3.3.1.2.3.1 Test RB = RB1#0



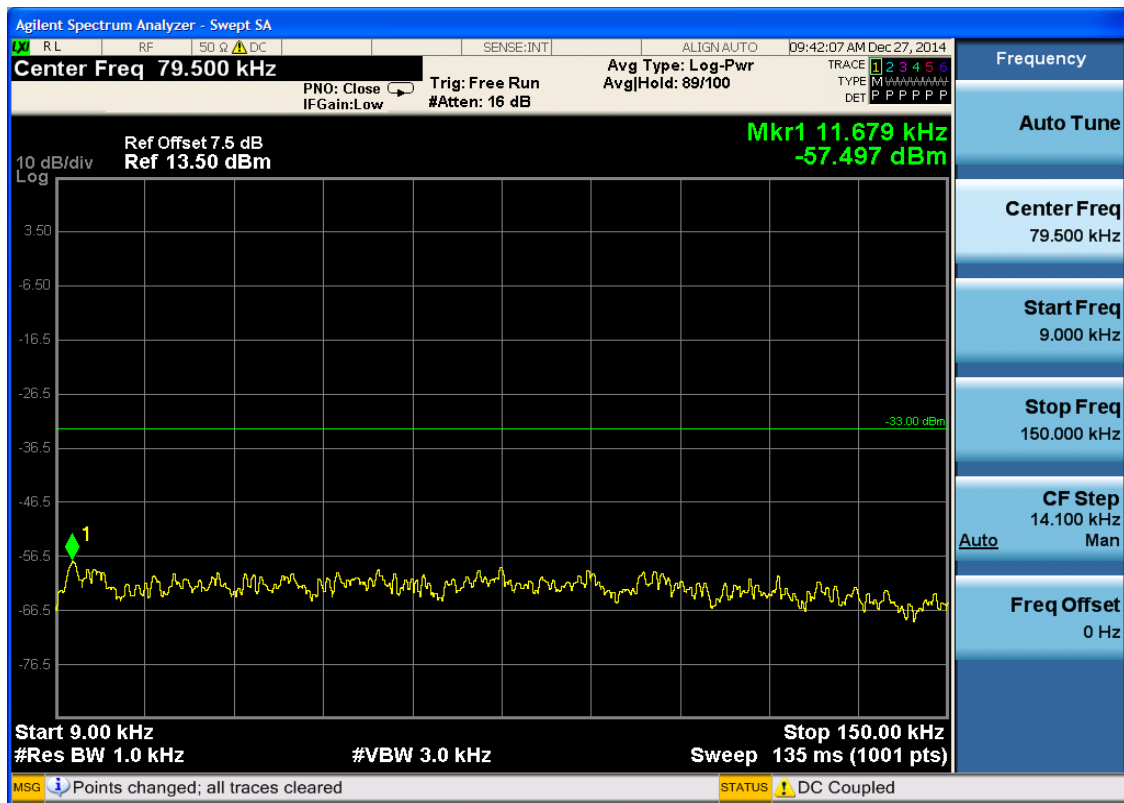


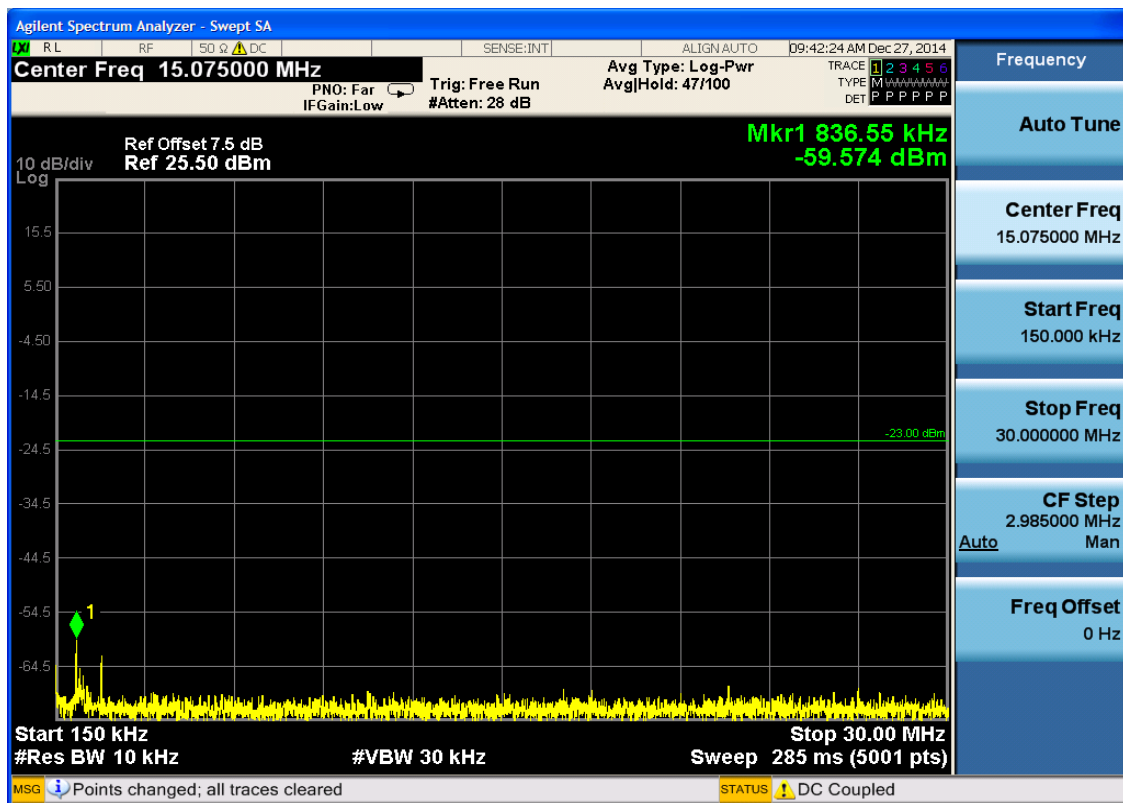


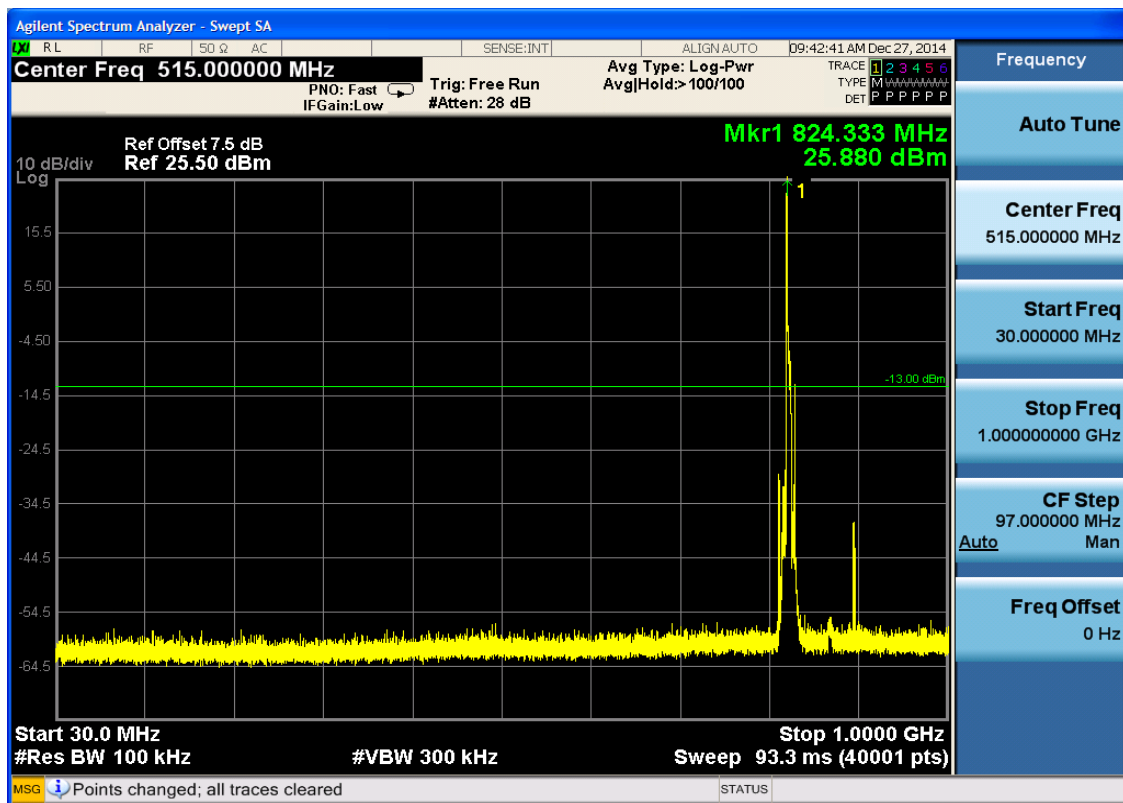


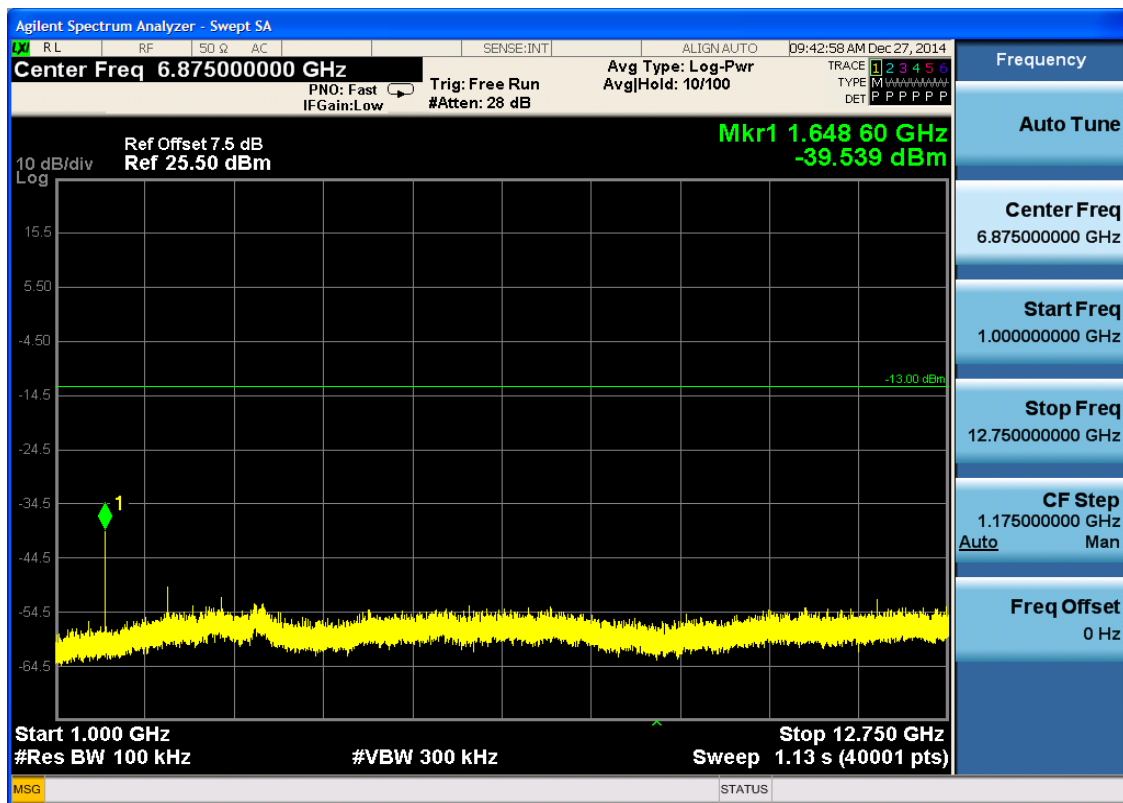


#### 6.3.3.2.1.1.1 Test RB = RB1#0



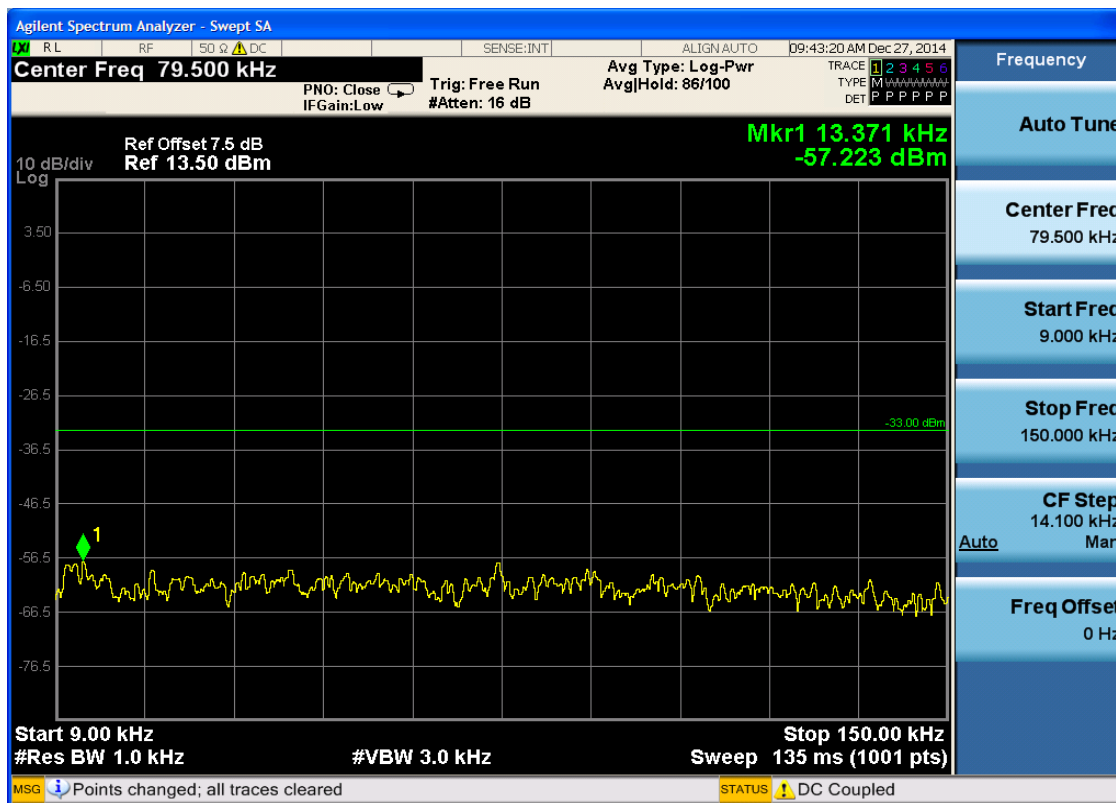


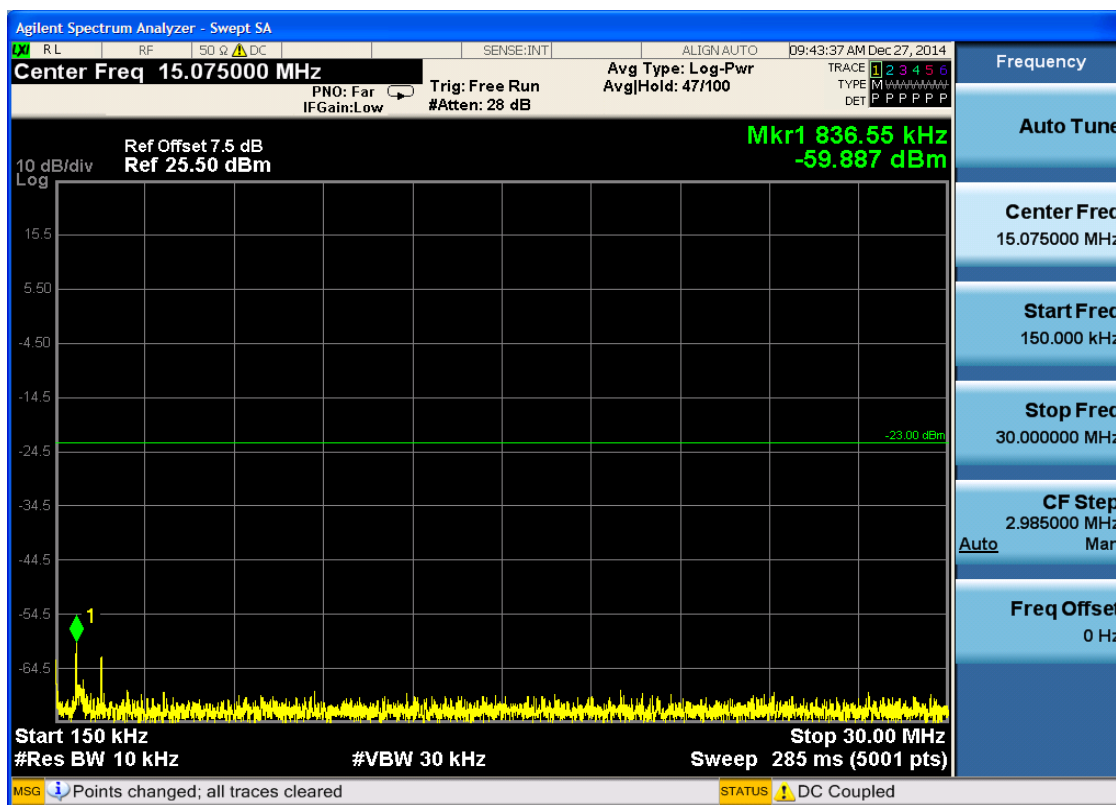


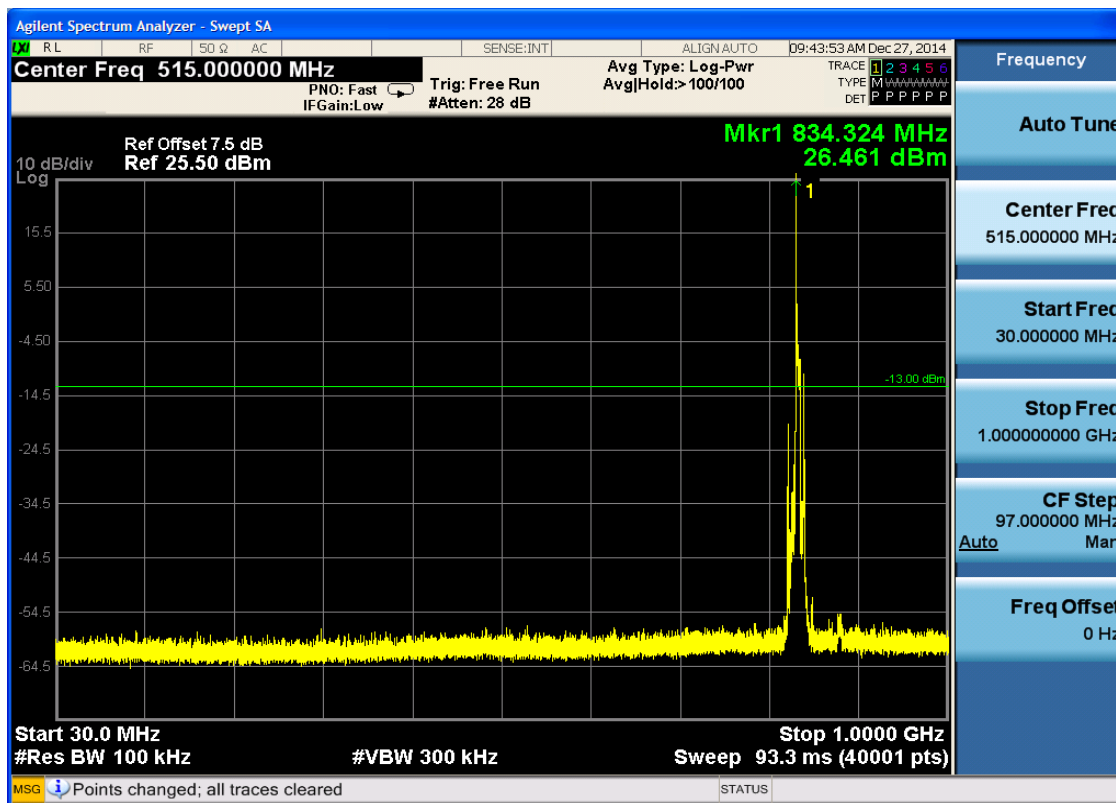


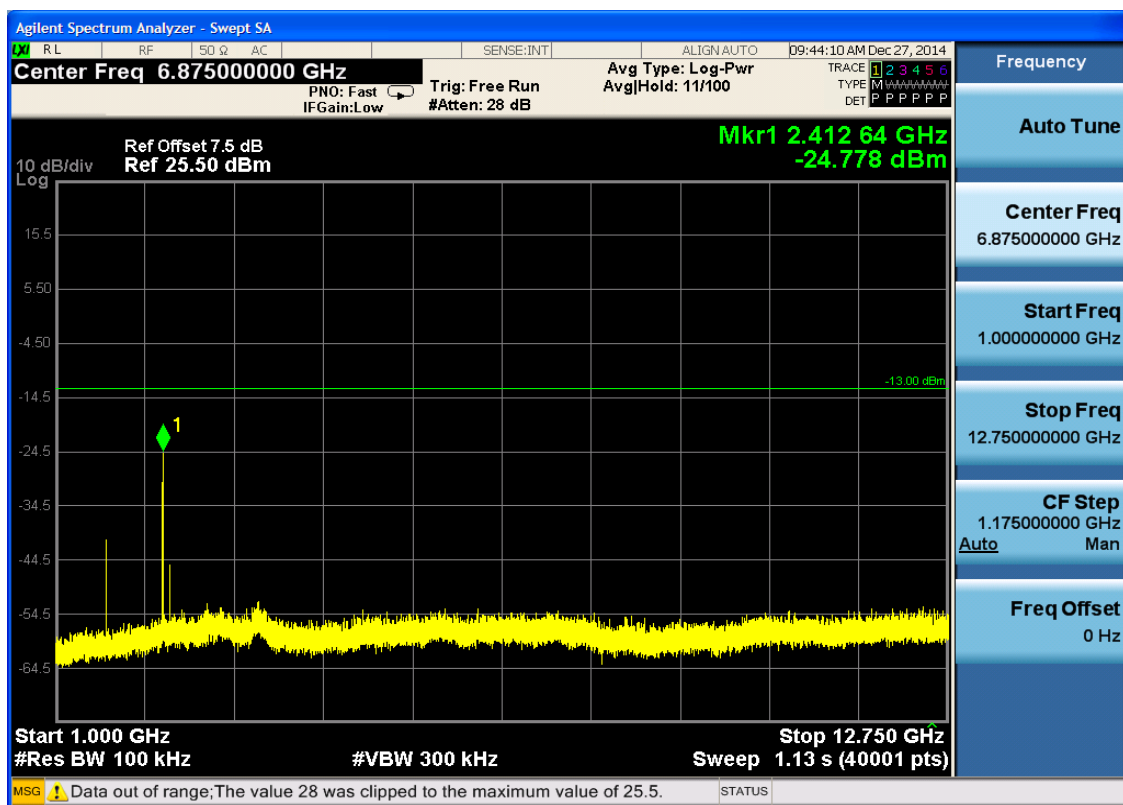
### 6.3.3.2.1.2 Test Channel = MCH

#### 6.3.3.2.1.2.1 Test RB = RB1#0





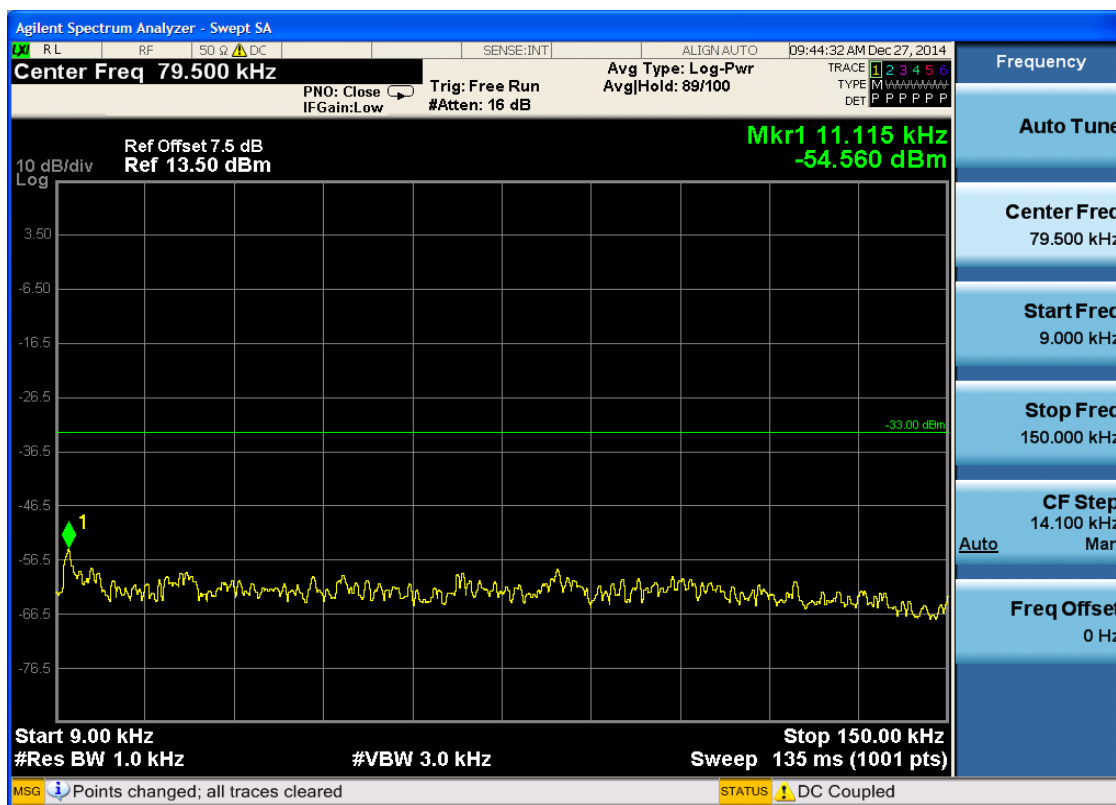


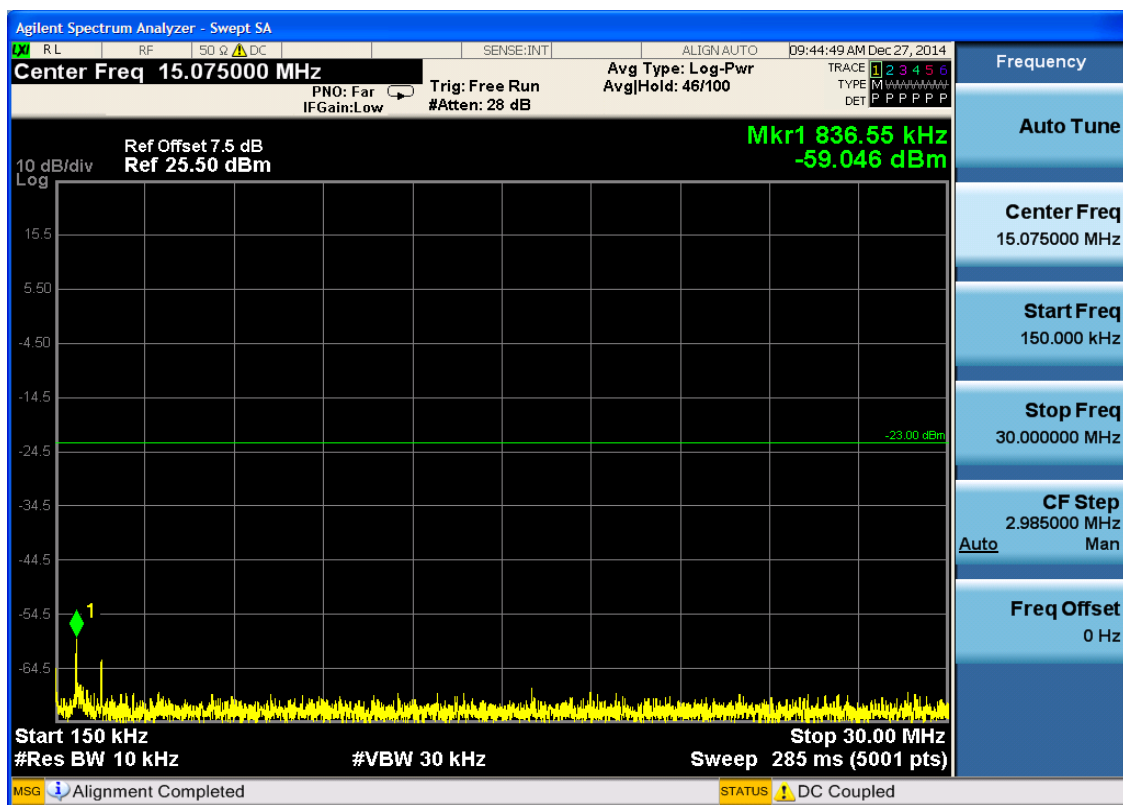


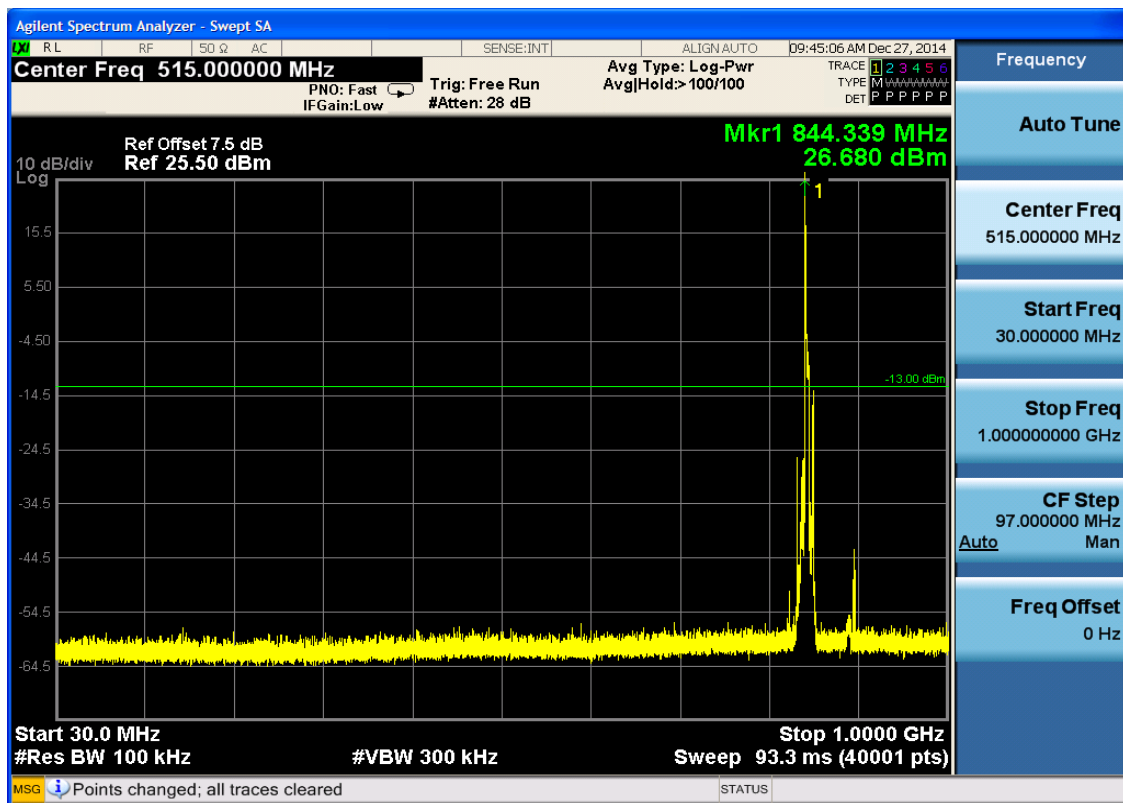


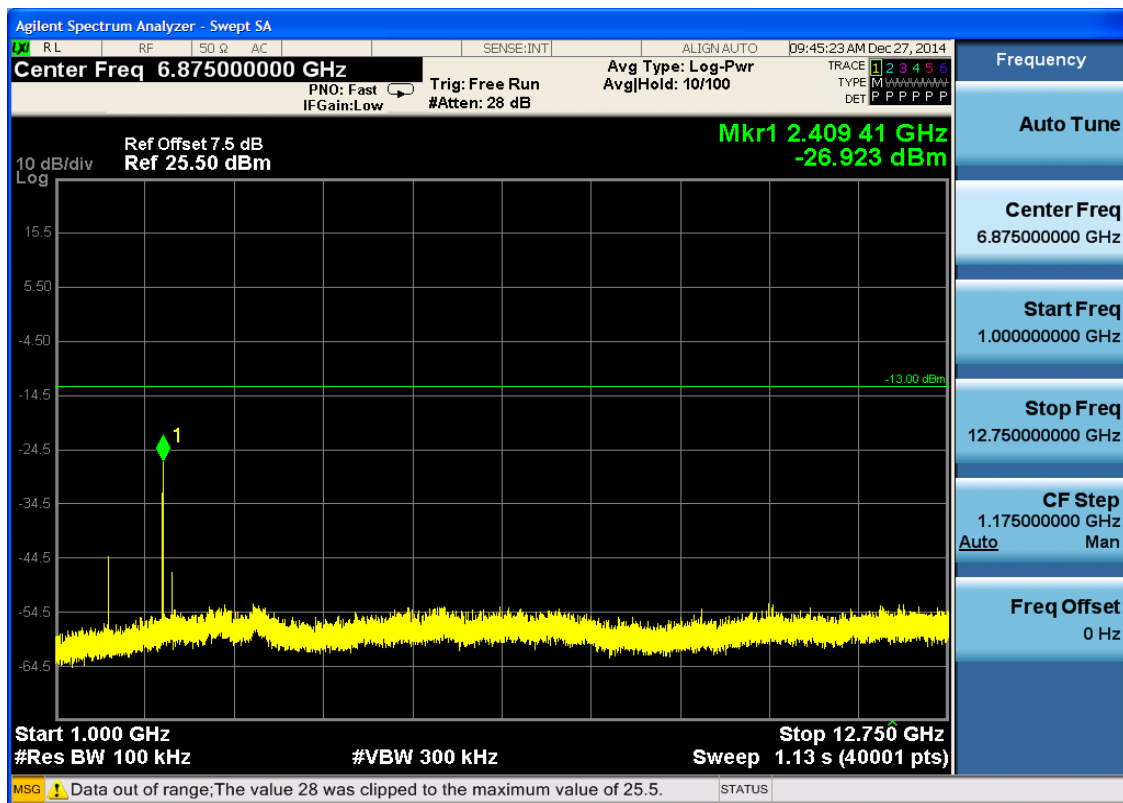
## 6.3.3.2.1.3 Test Channel = HCH

## 6.3.3.2.1.3.1 Test RB = RB1#0





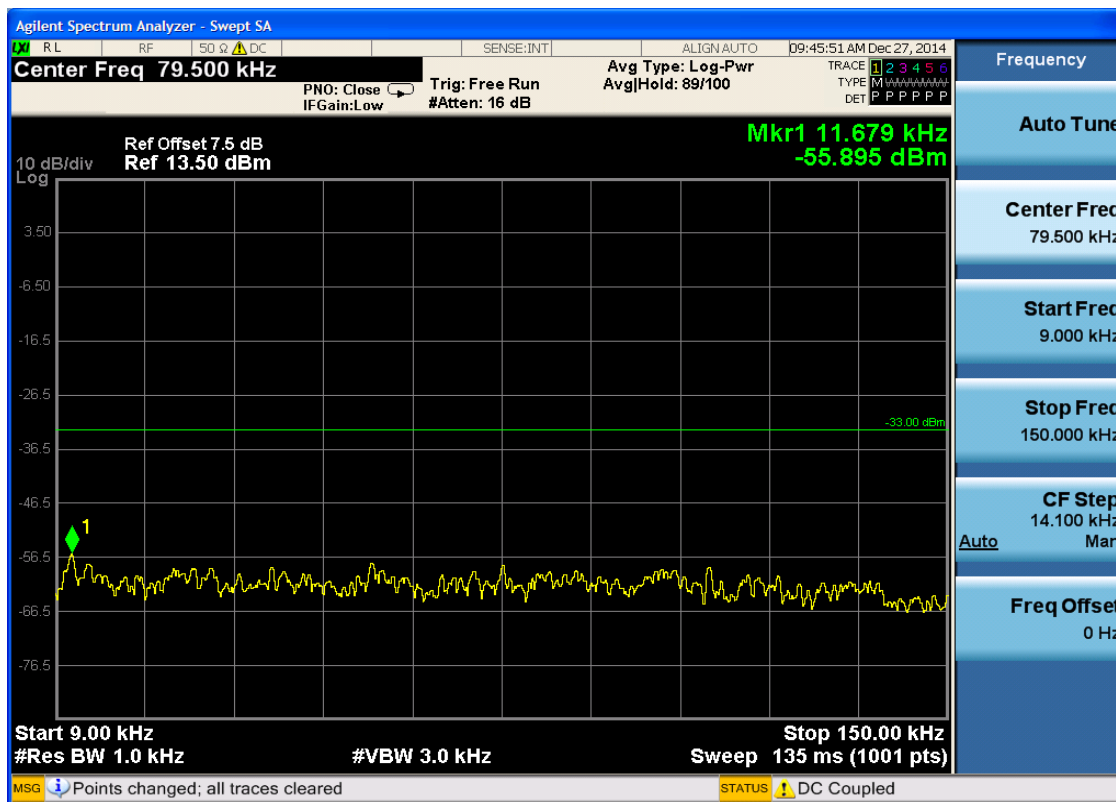


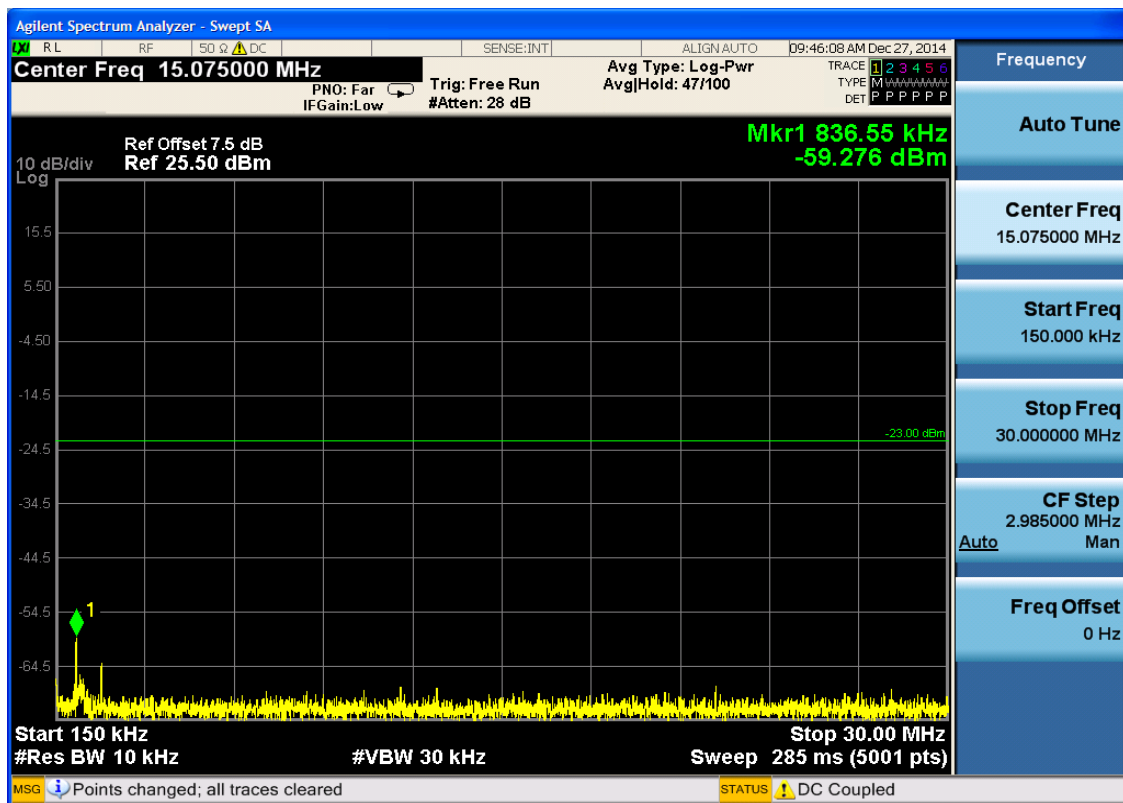


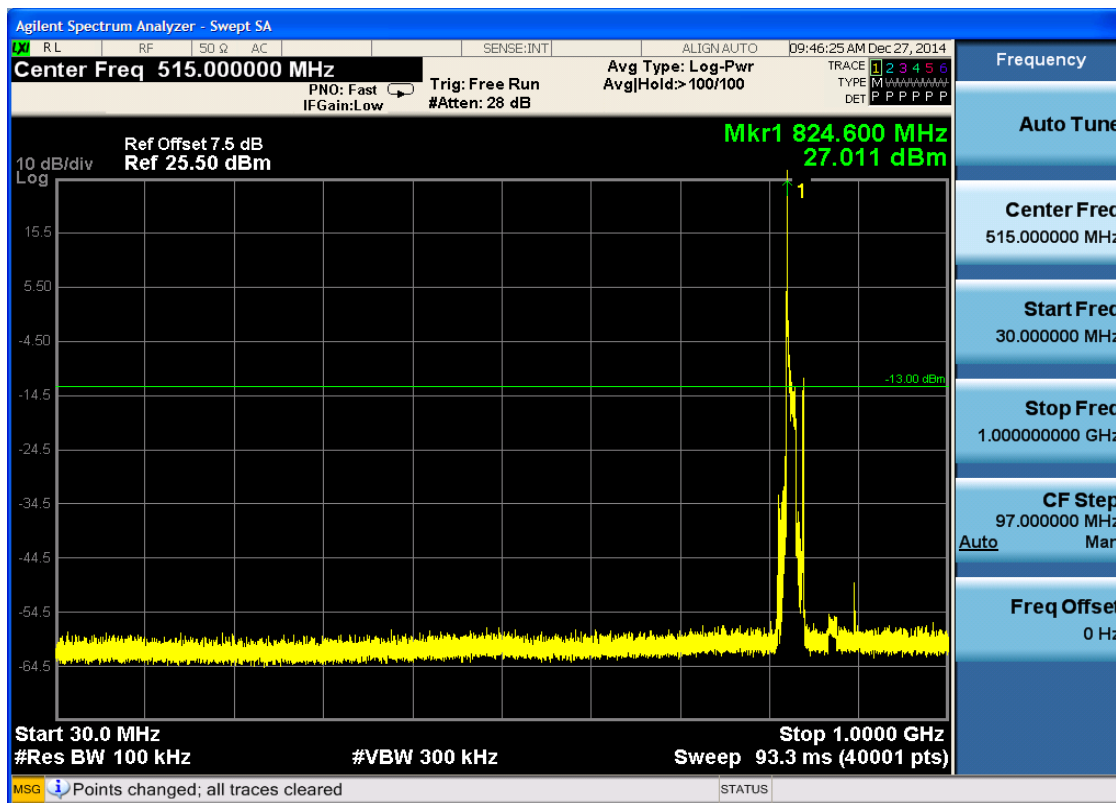
### 6.3.3.2.2 Test Bandwidth = 10

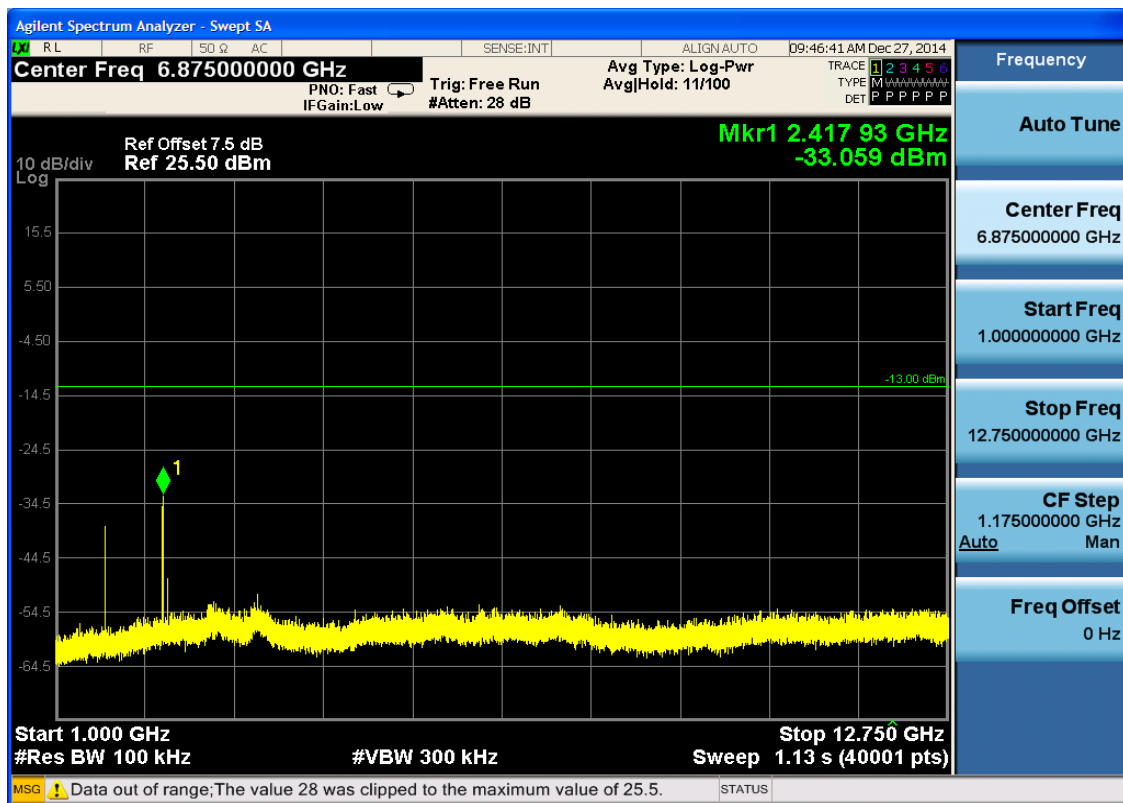
#### 6.3.3.2.2.1 Test Channel = LCH

##### 6.3.3.2.2.1.1 Test RB = RB1#0



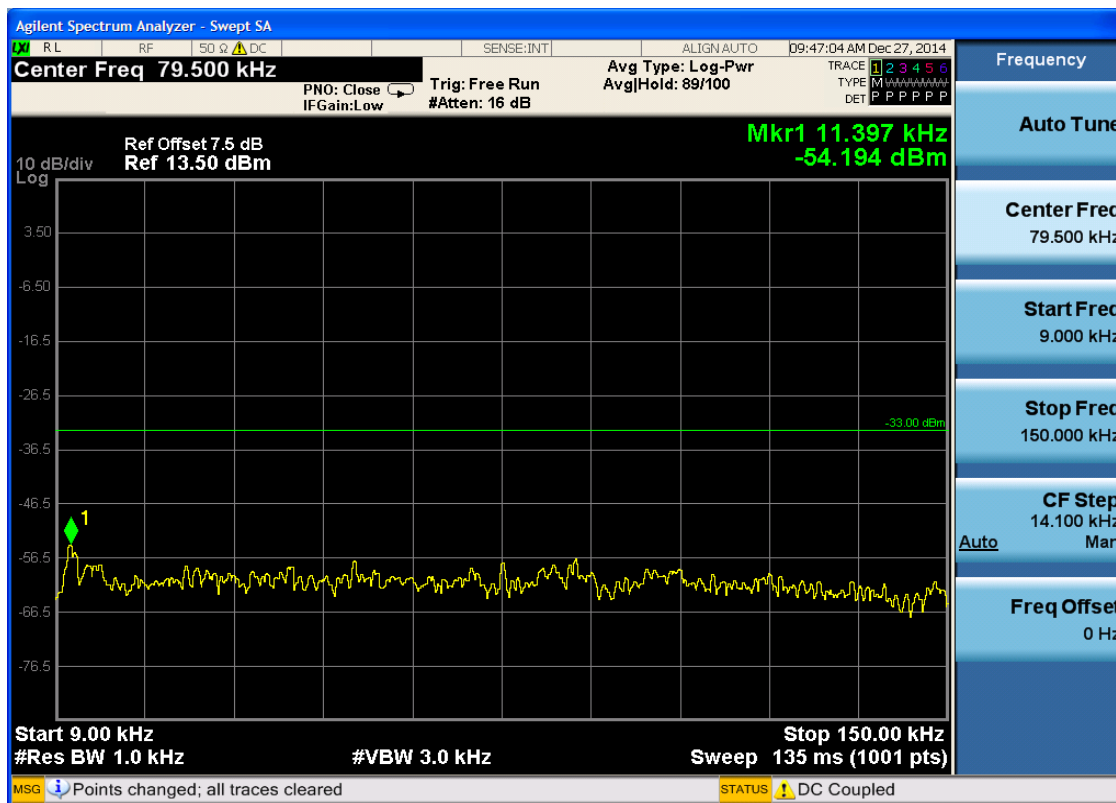


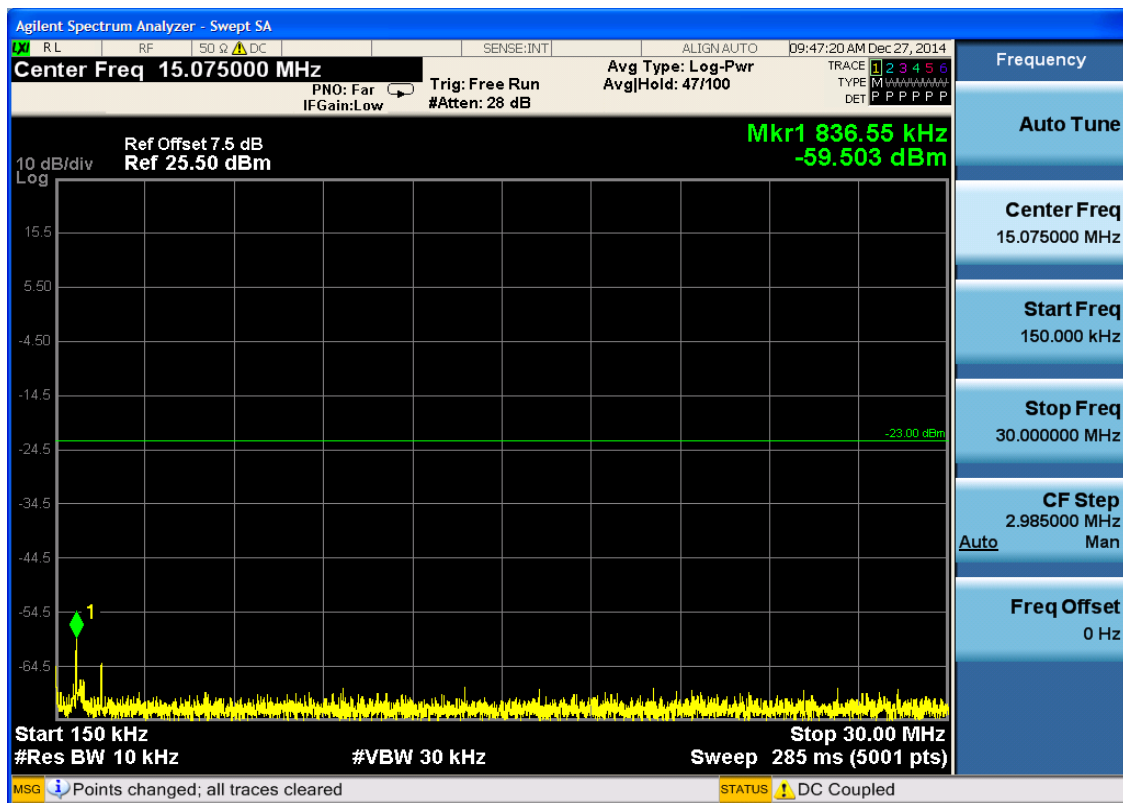


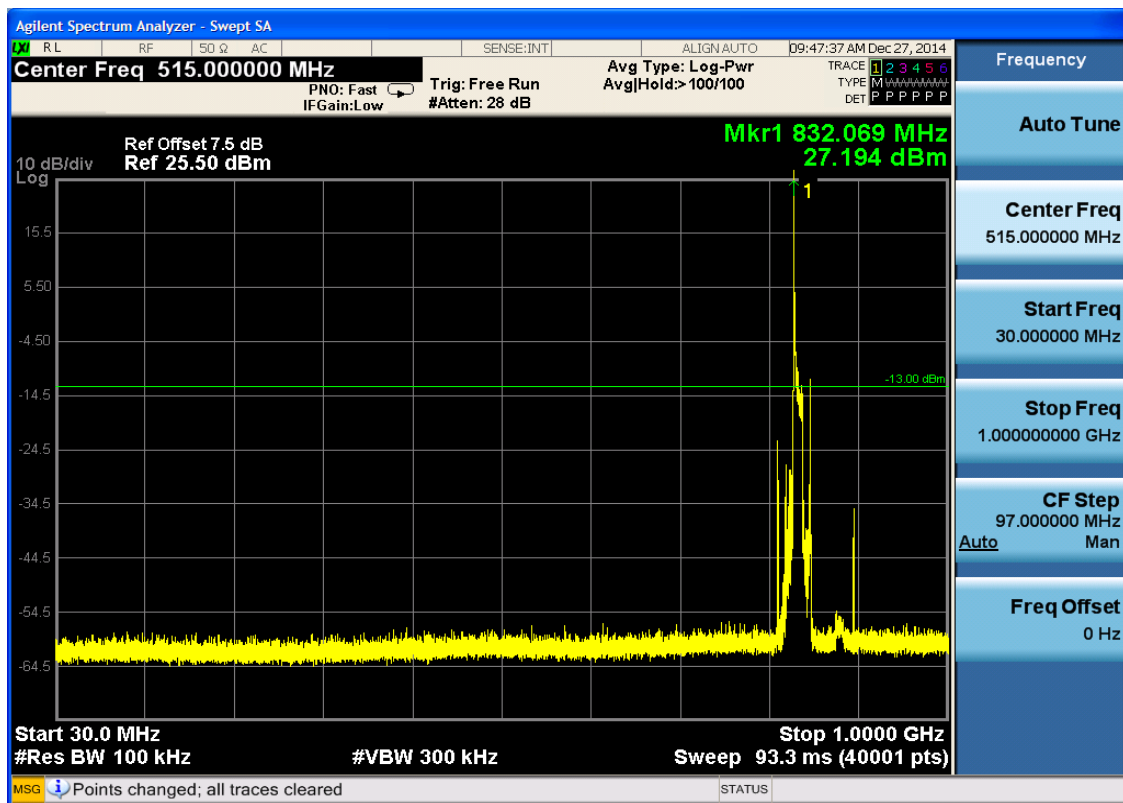


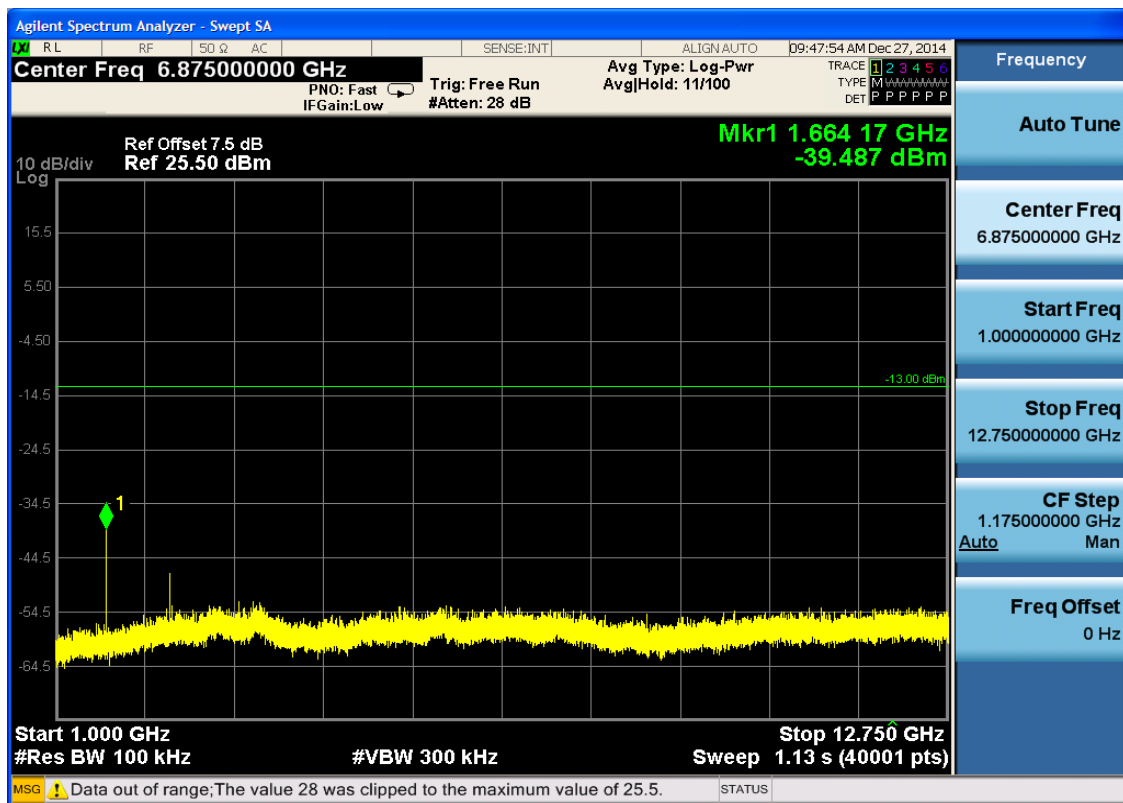
### 6.3.3.2.2 Test Channel = MCH

#### 6.3.3.2.2.1 Test RB = RB1#0



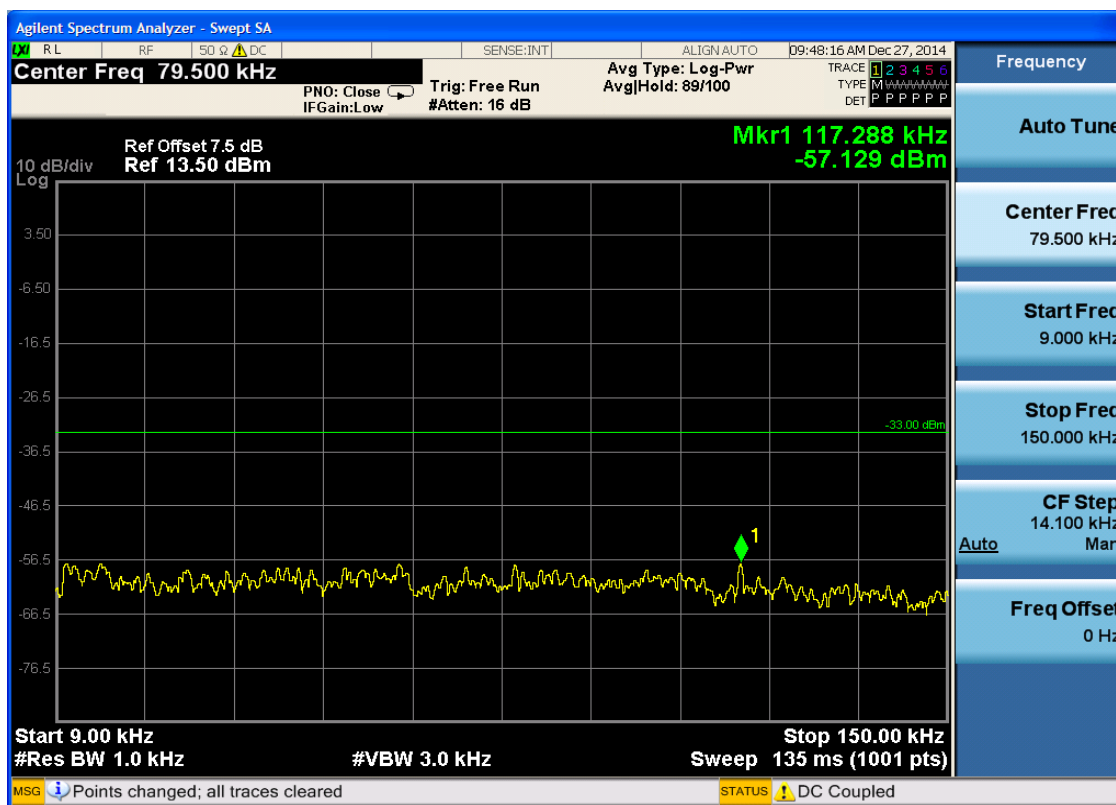


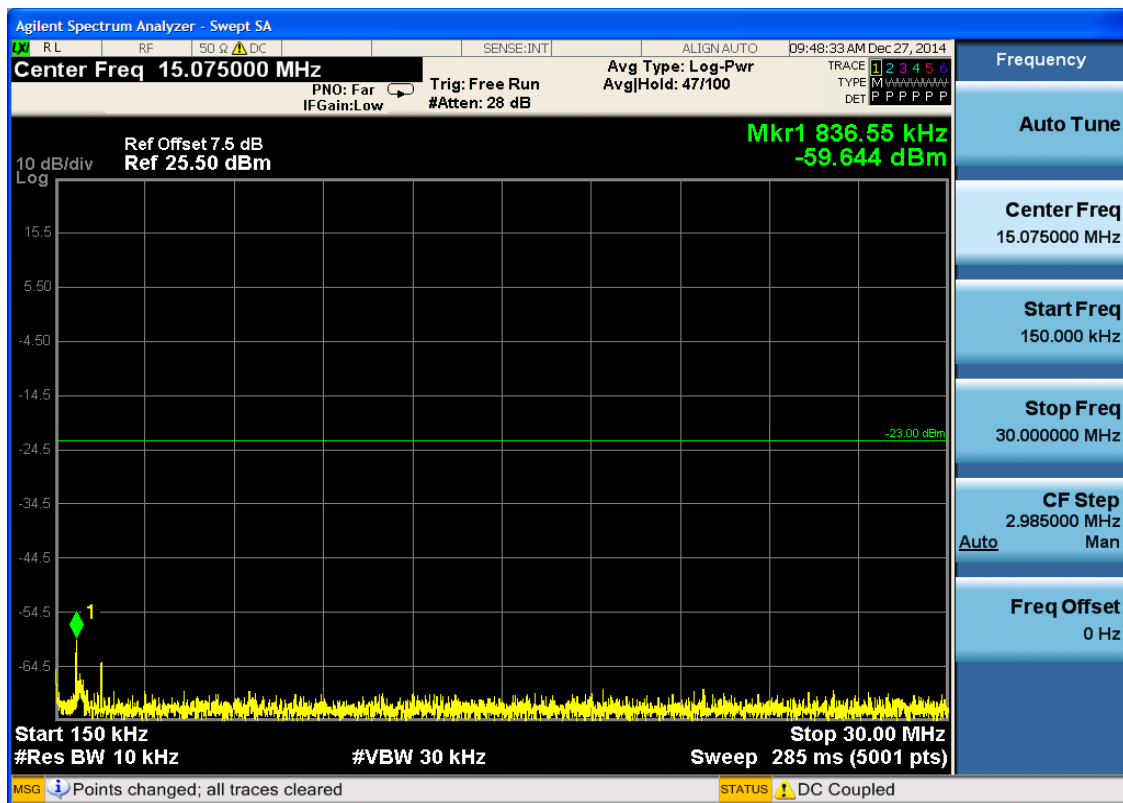


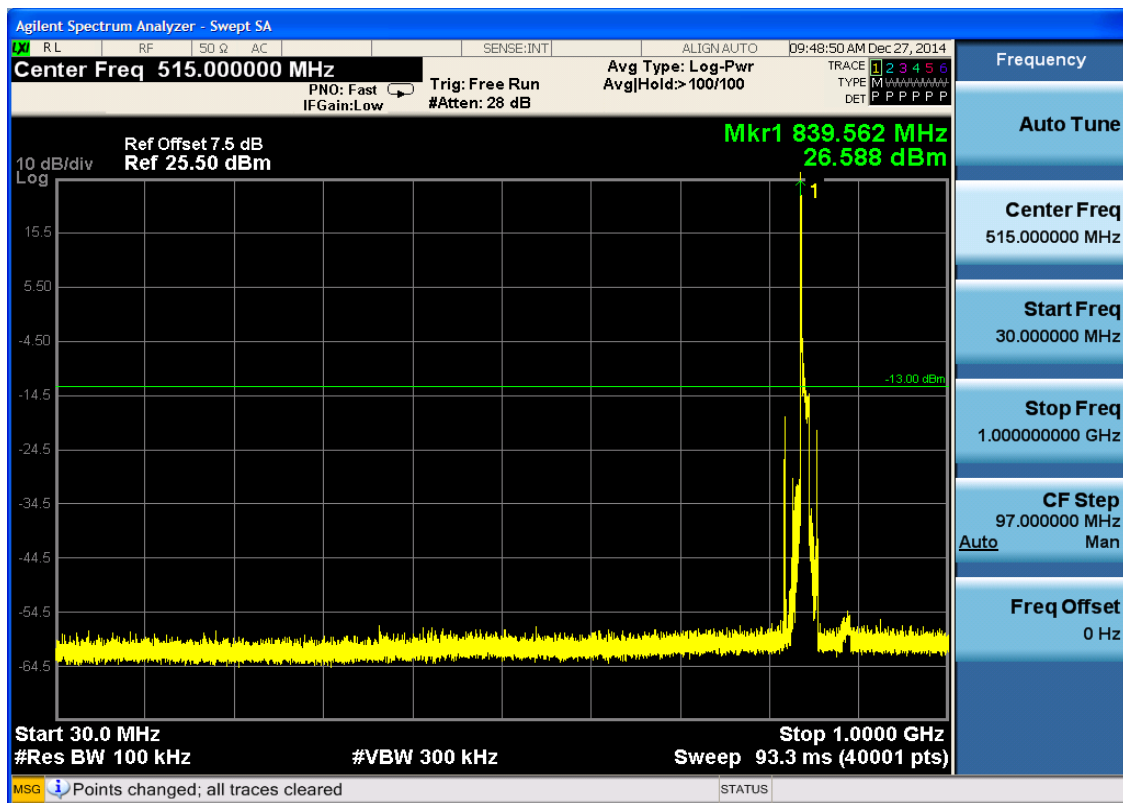


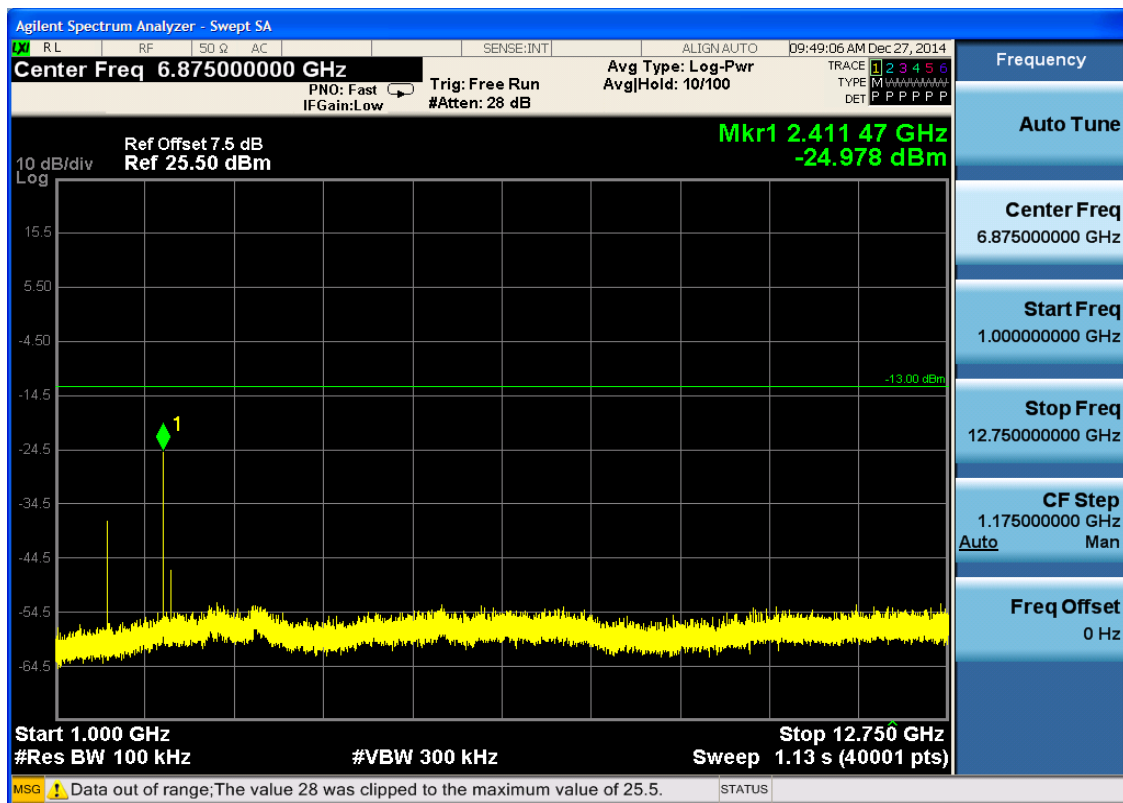
### 6.3.3.2.2.3 Test Channel = HCH

#### 6.3.3.2.2.3.1 Test RB = RB1#0









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

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

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

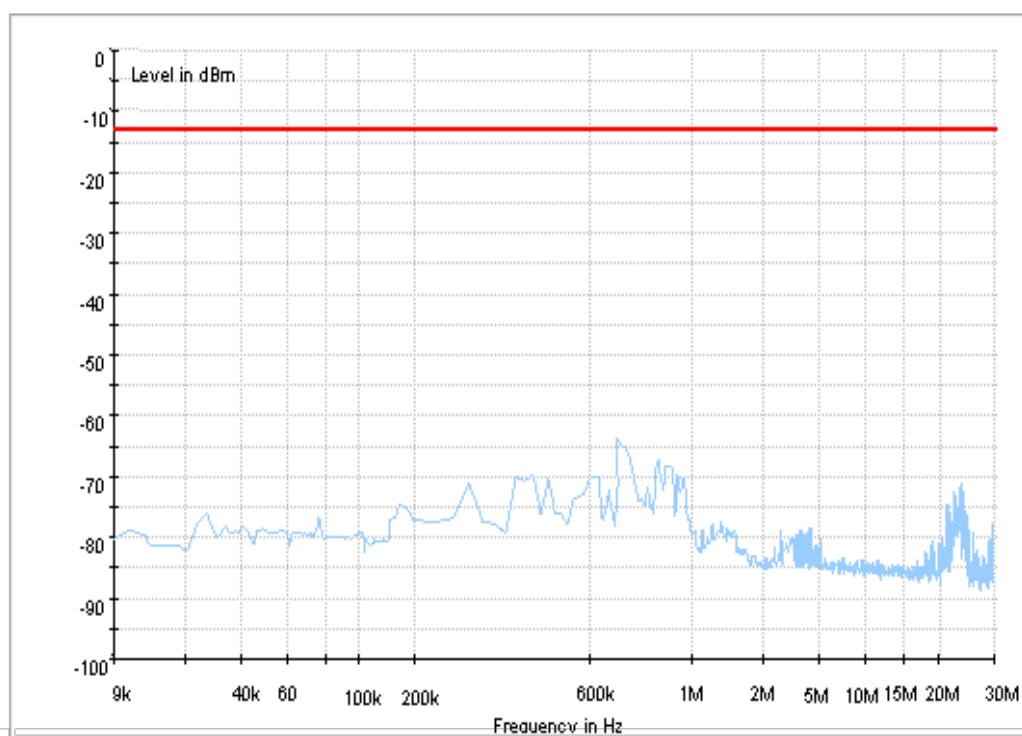
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

### Part I - Test Plots

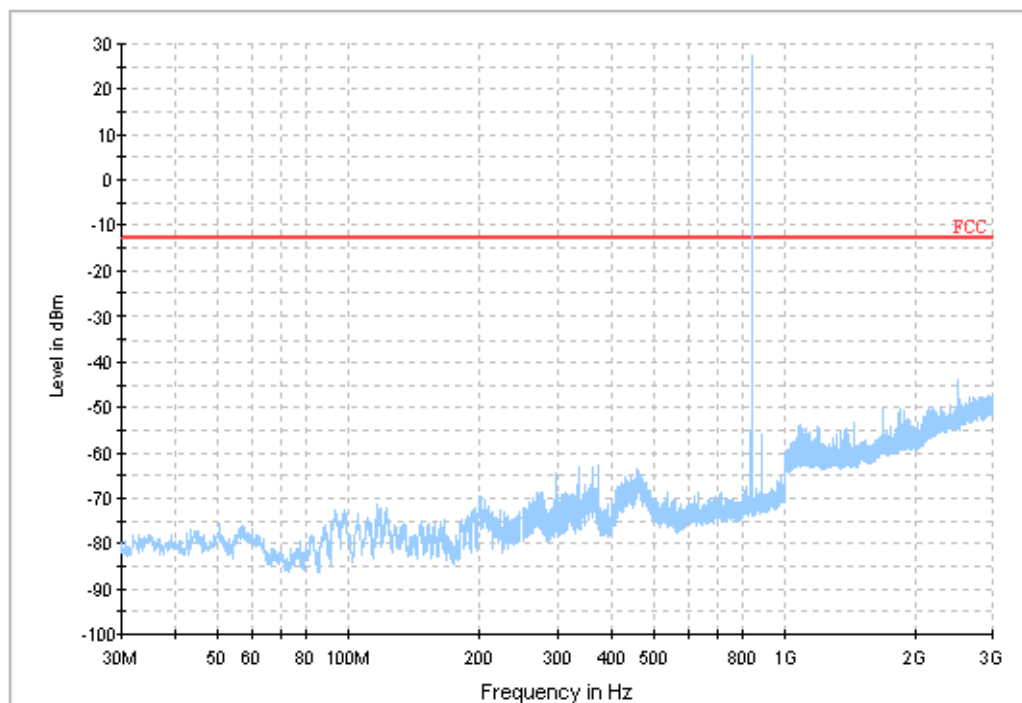
#### 7.1 For GSM

##### 7.1.1 Test Band = GSM850

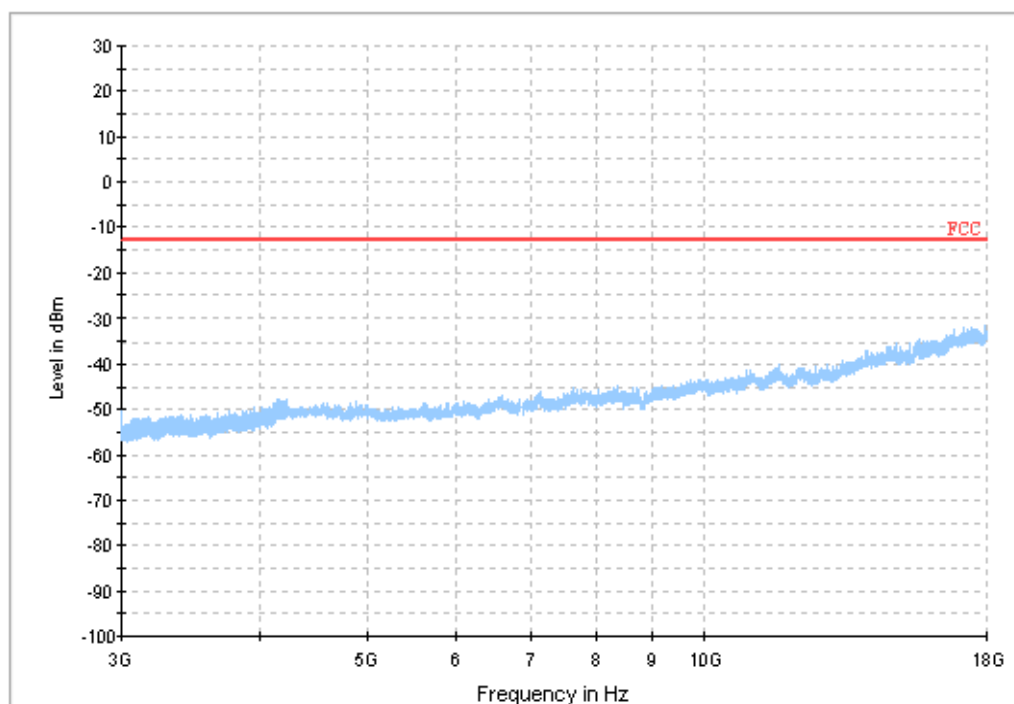
##### 7.1.1.1 Test Mode = GSM/TM1



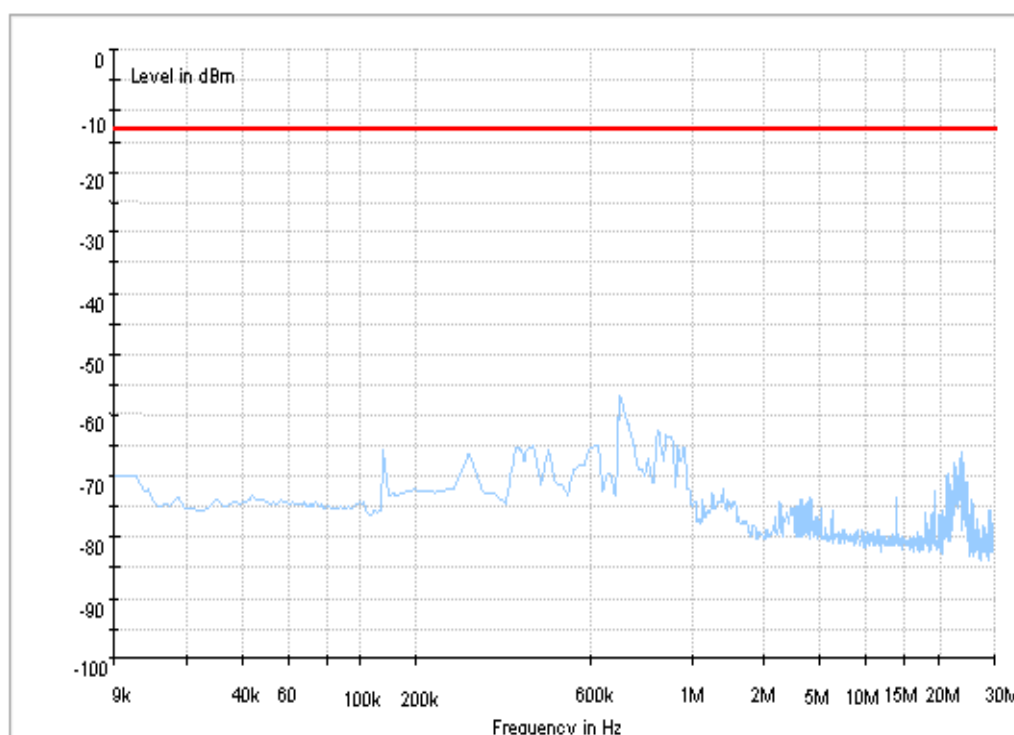
Copy of FCC PART22 GSM850\_L



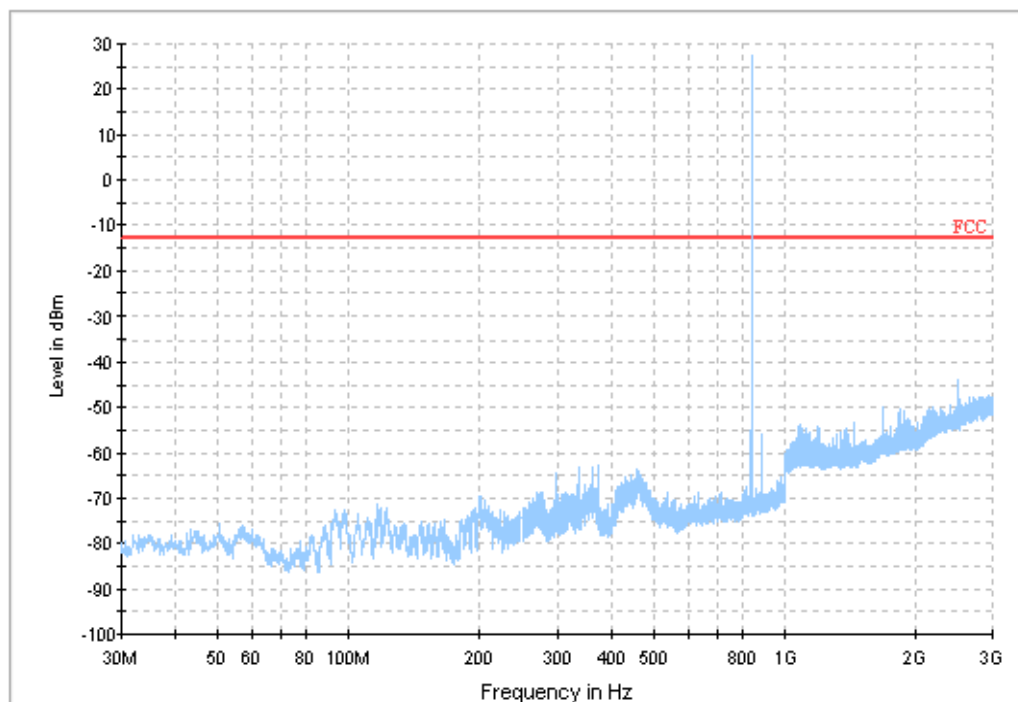
Copy of FCC PART22 GSM850\_H



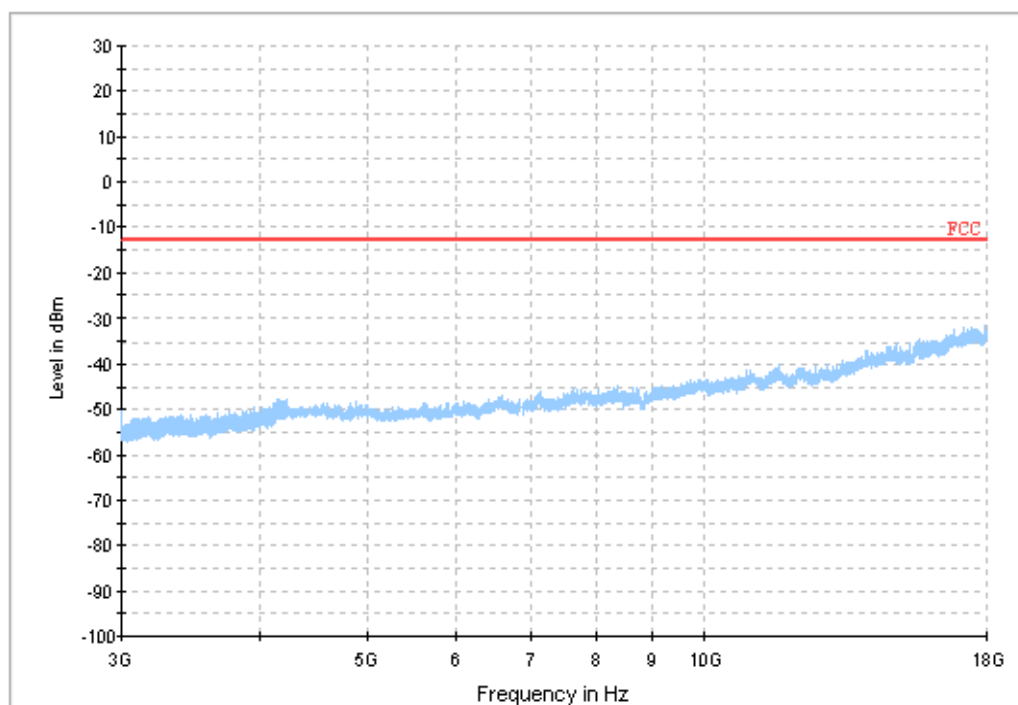
### 7.1.1.2 Test Mode = GSM/TM2



Copy of FCC PART22 GSM850\_L

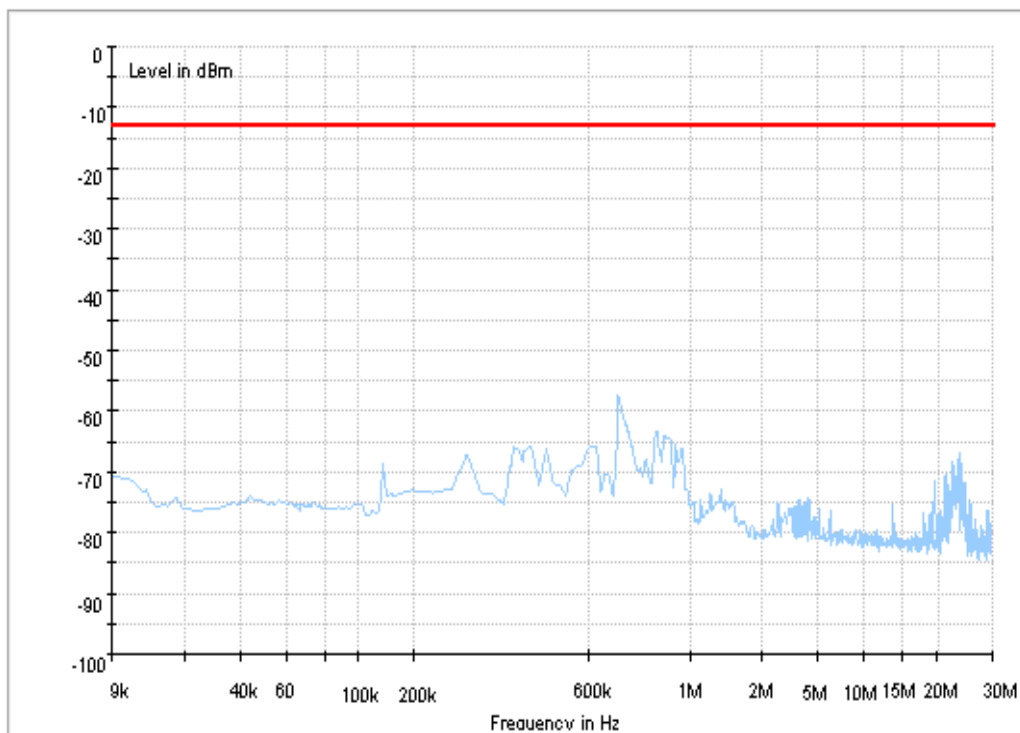


Copy of FCC PART22 GSM850\_H

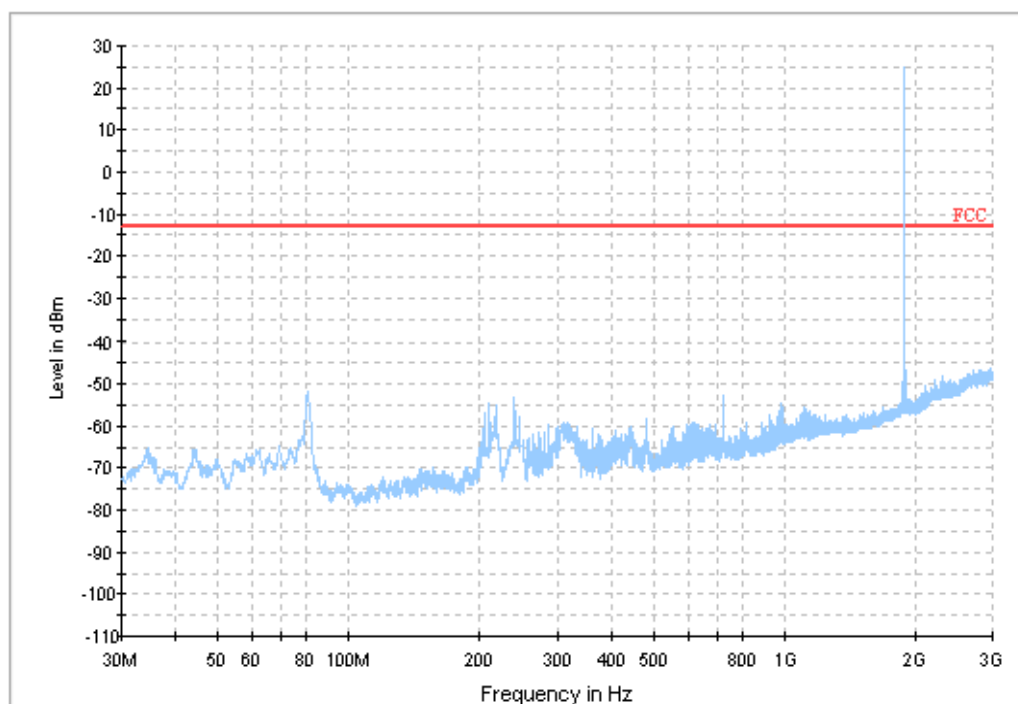


## 7.1.2 Test Band = GSM1900

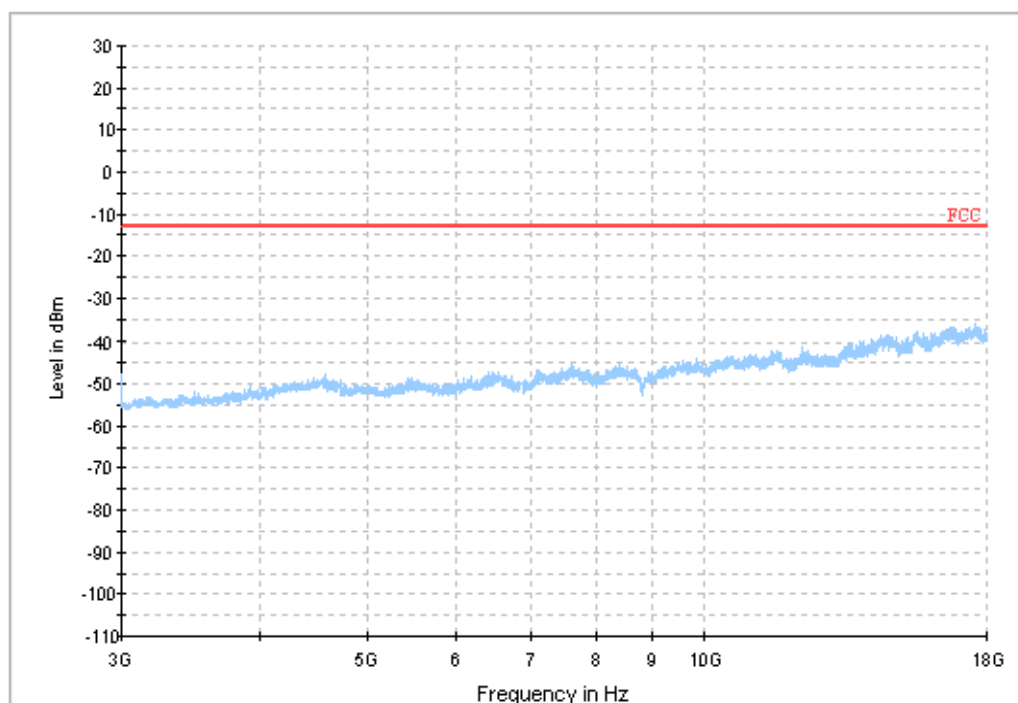
### 7.1.2.1 Test Mode = GSM/TM1

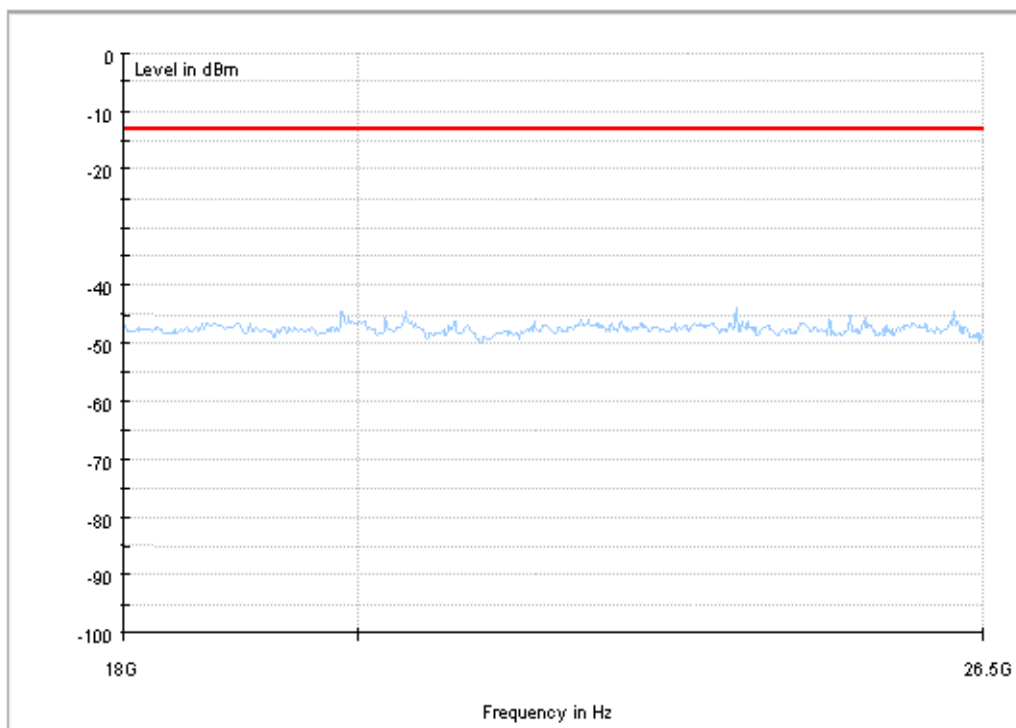


Copy of FCC PART24 GSM1900\_L

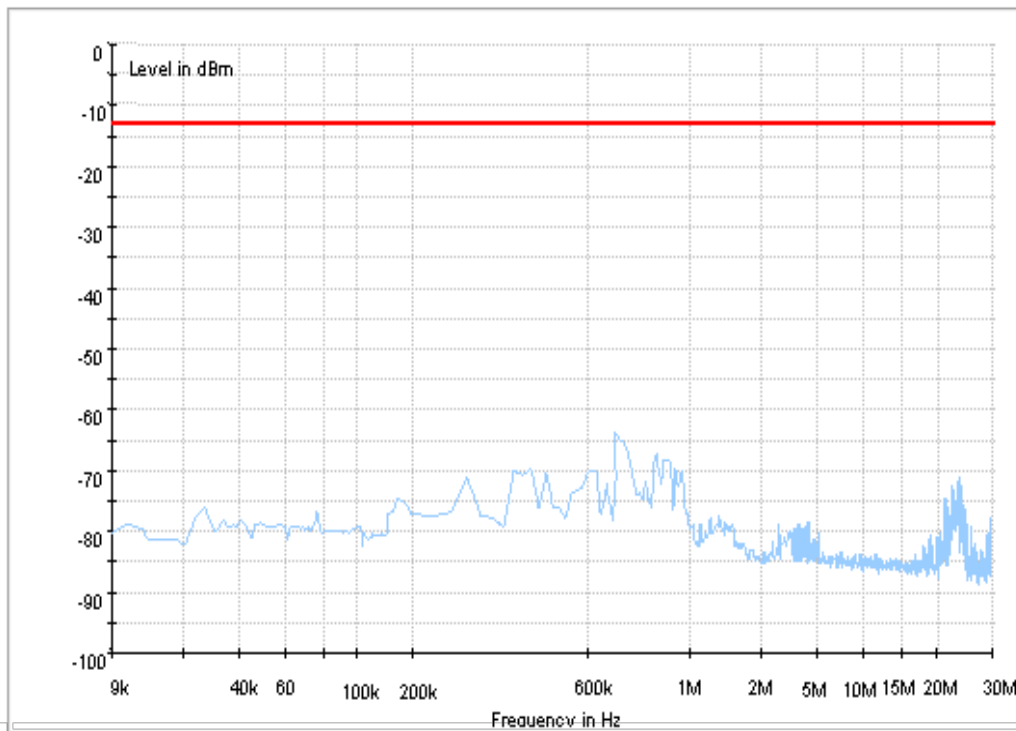


Copy of FCC PART24 GSM1900\_H

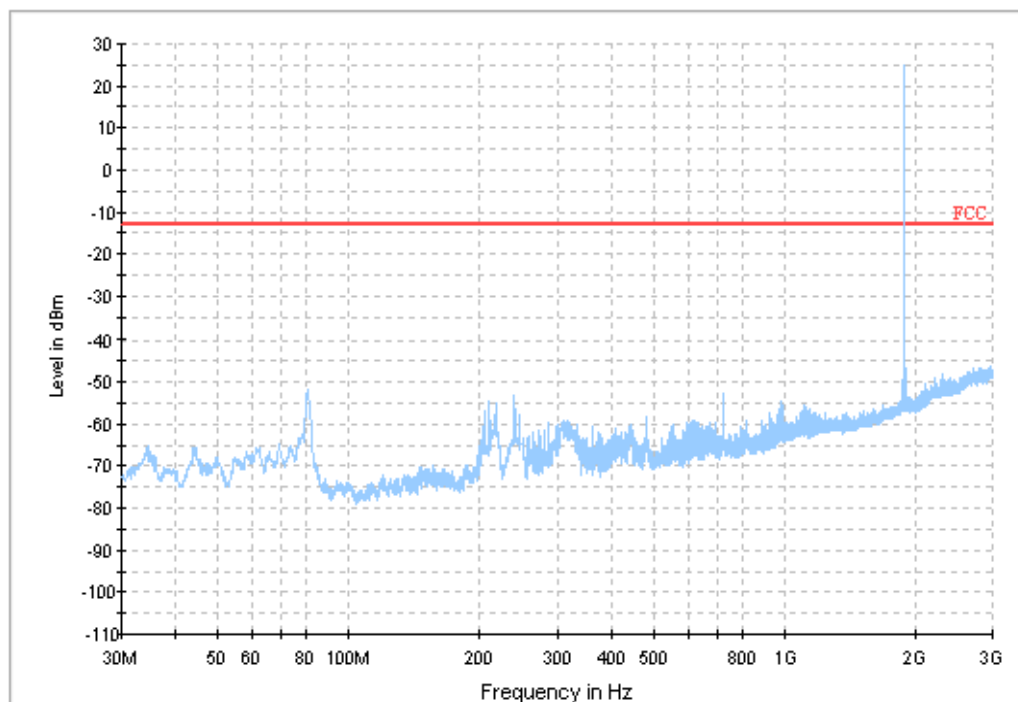




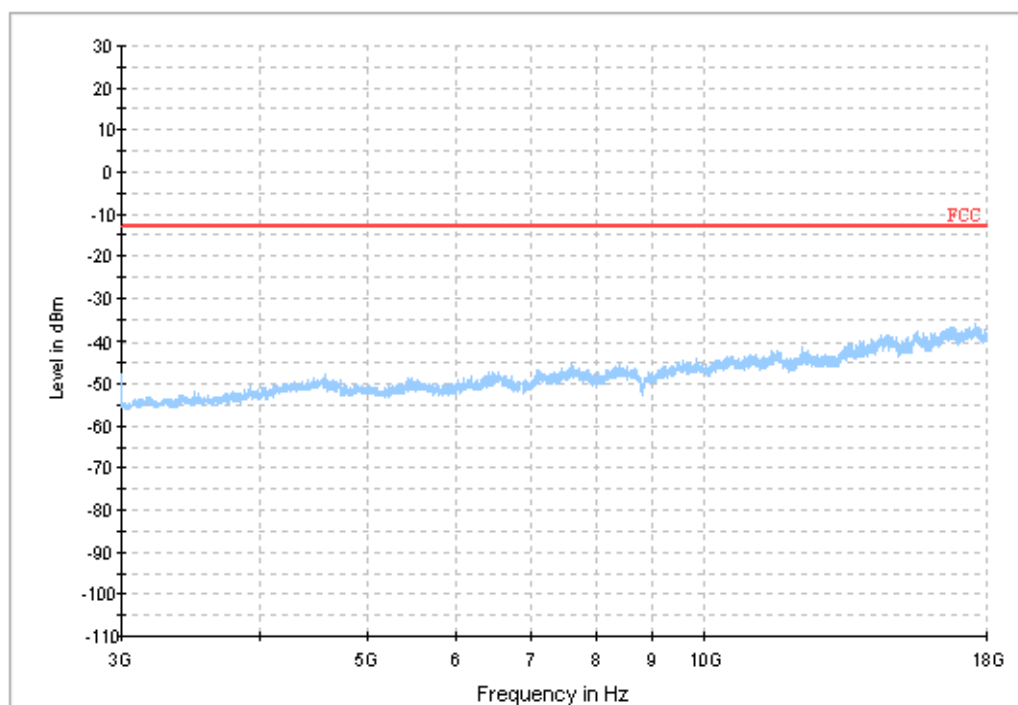
### 7.1.2.2 Test Mode = GSM/TM2

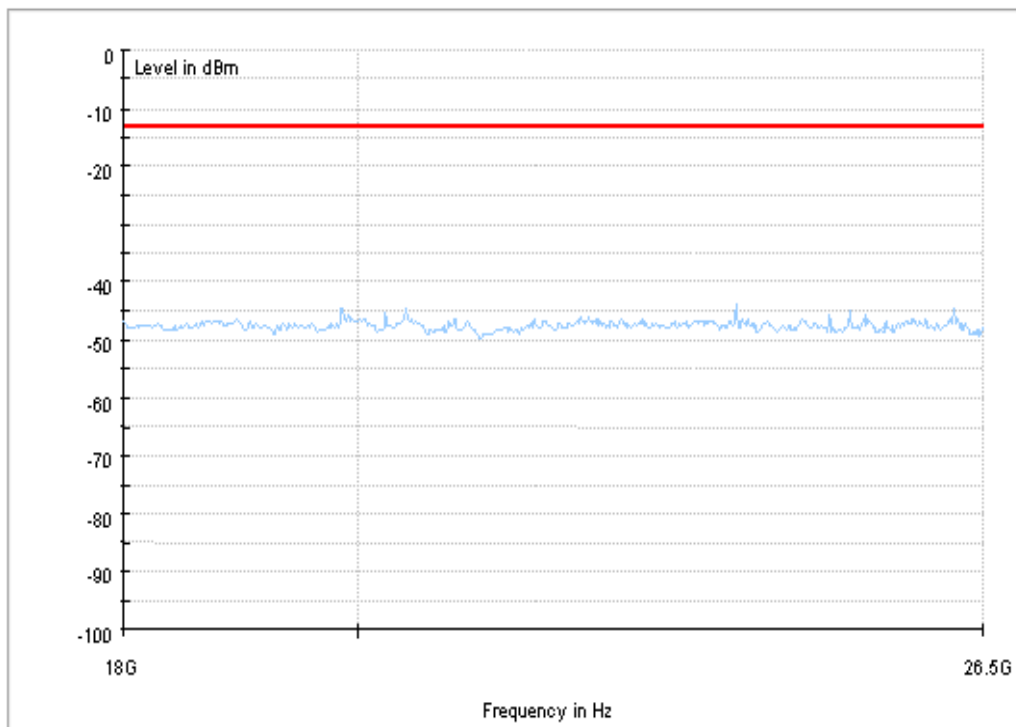


Copy of FCC PART24 GSM1900\_L



Copy of FCC PART24 GSM1900\_H

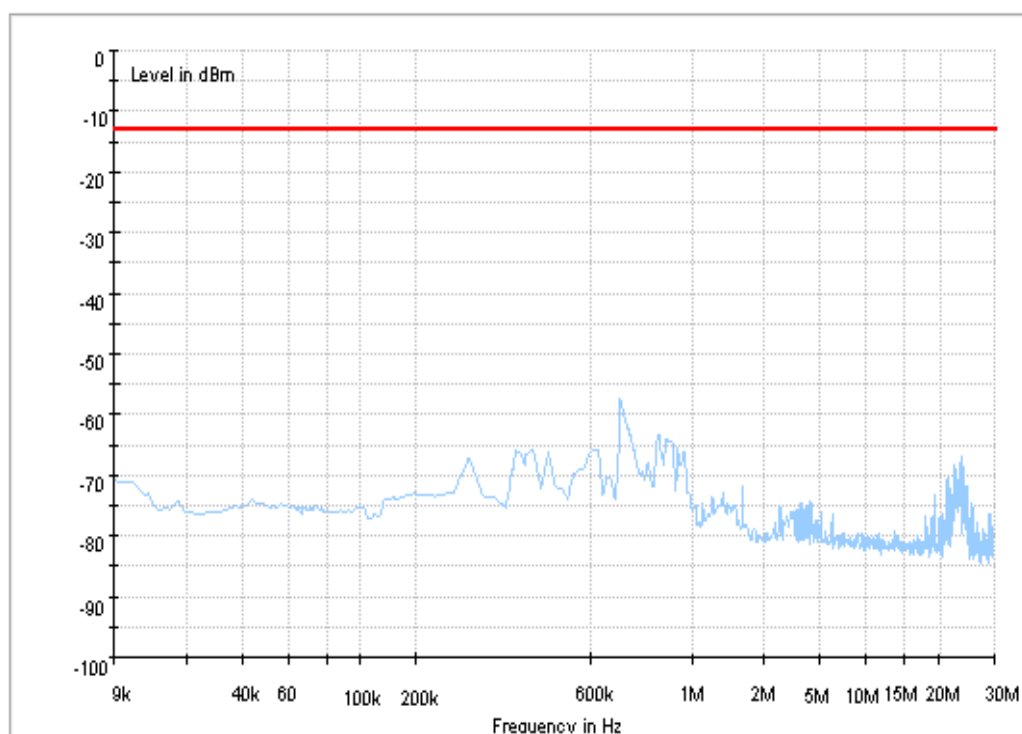




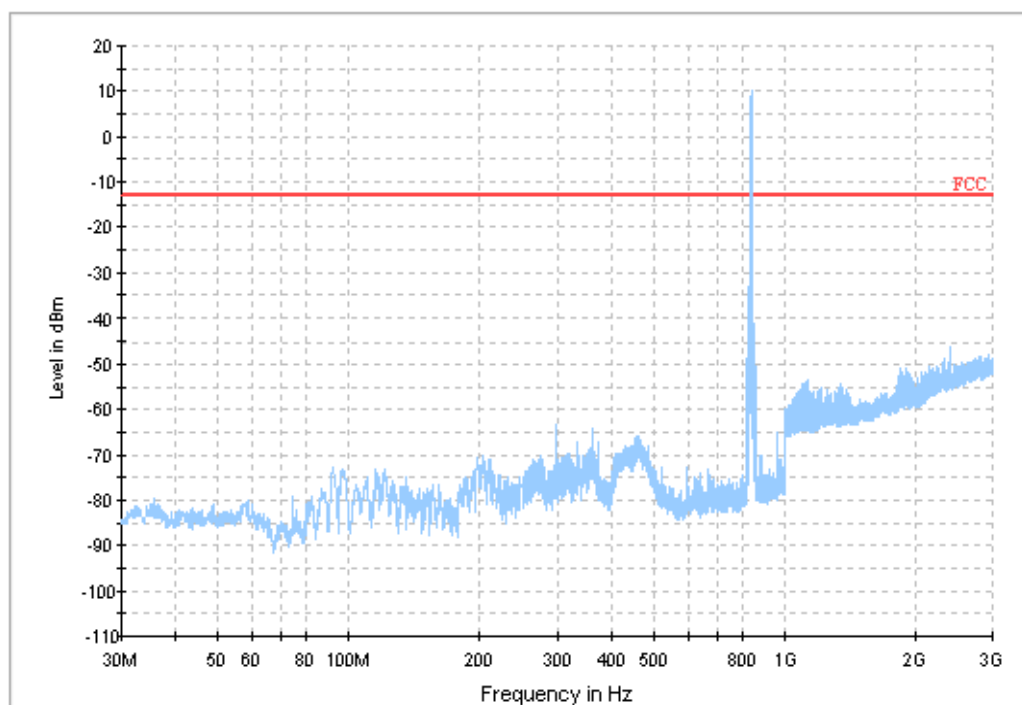
## 7.2 For UMTS

### 7.2.1 Test Band = WCDMA850

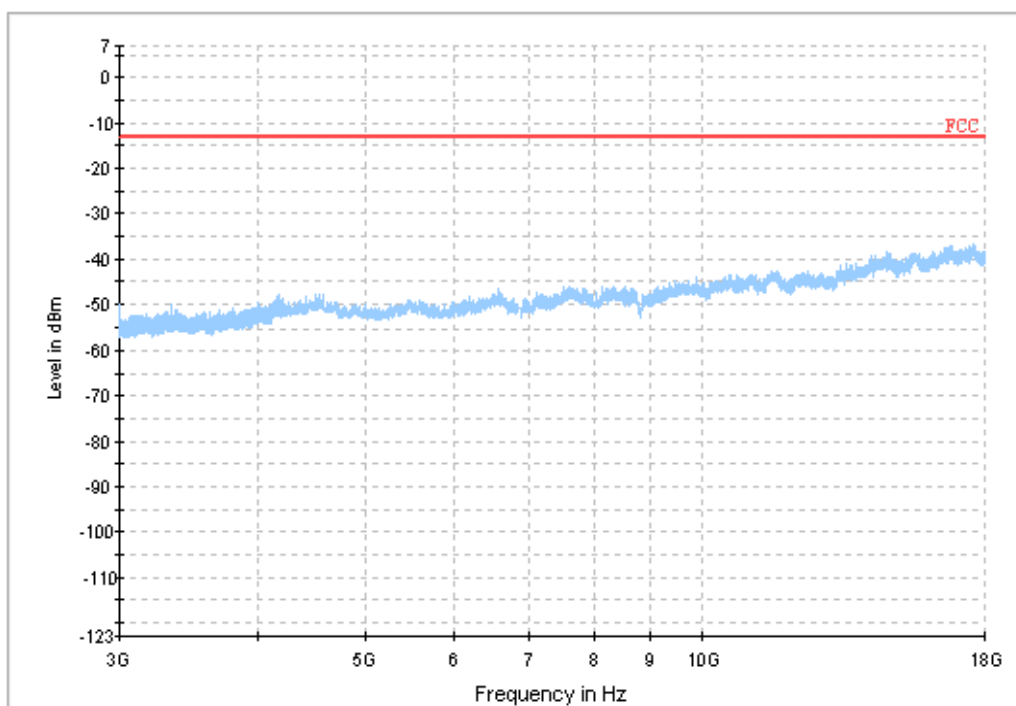
#### 7.2.1.1 Test Mode = UMTS/TM1



Copy of FCC PART22 WCDMA850\_L

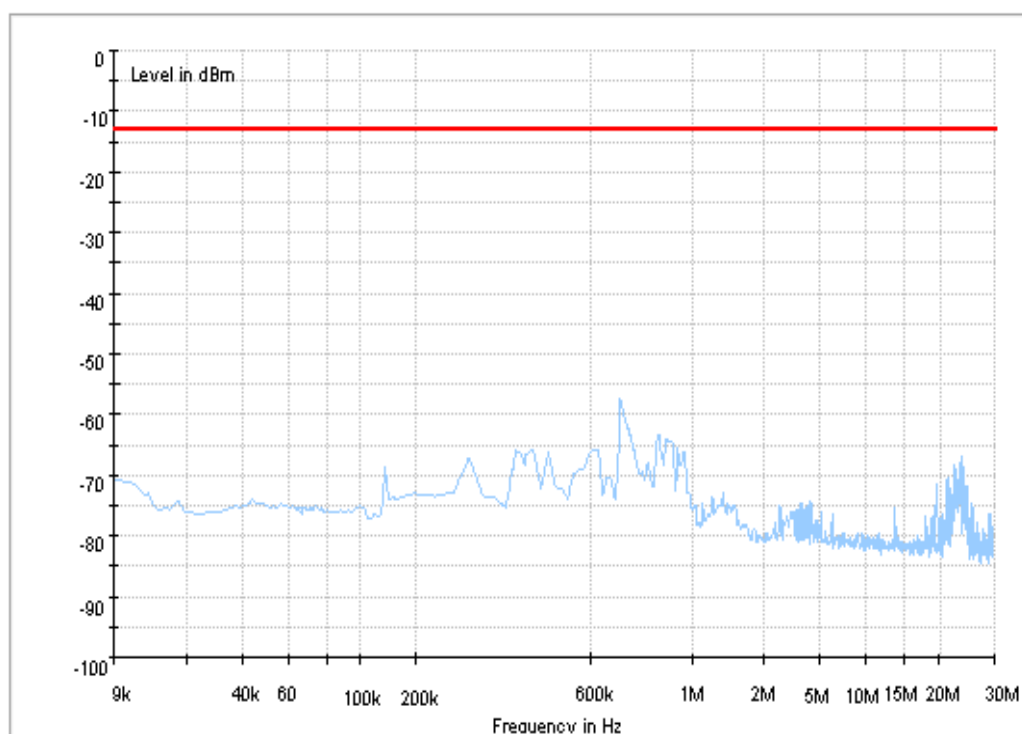


Copy of FCC PART22 WCDMA850\_H

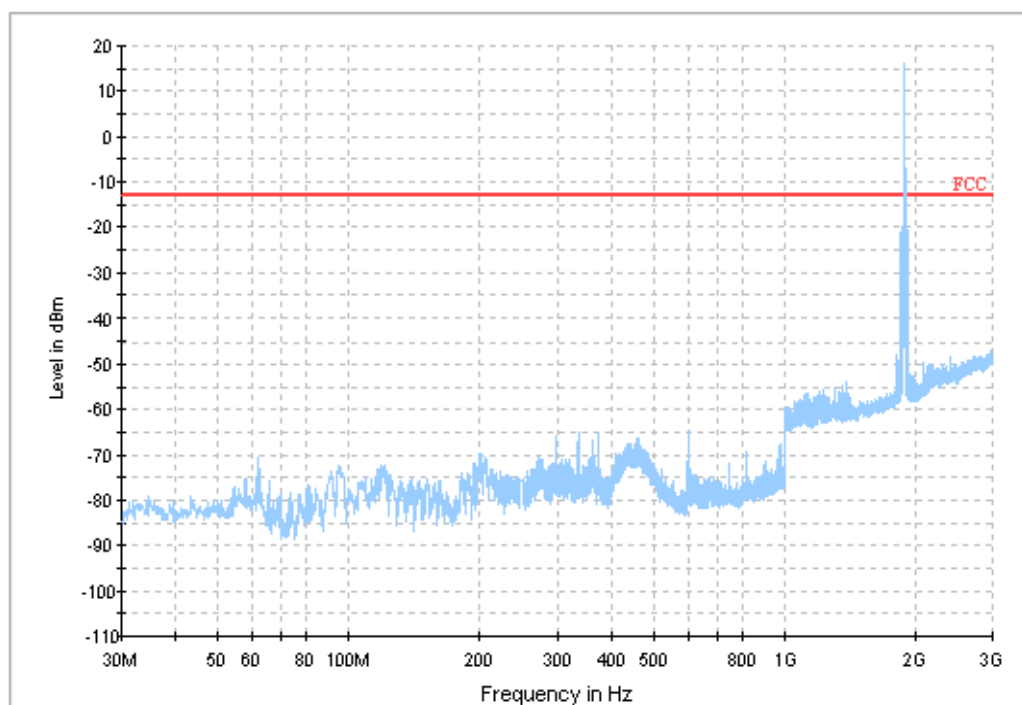


## 7.2.2 Test Band = WCDMA1900

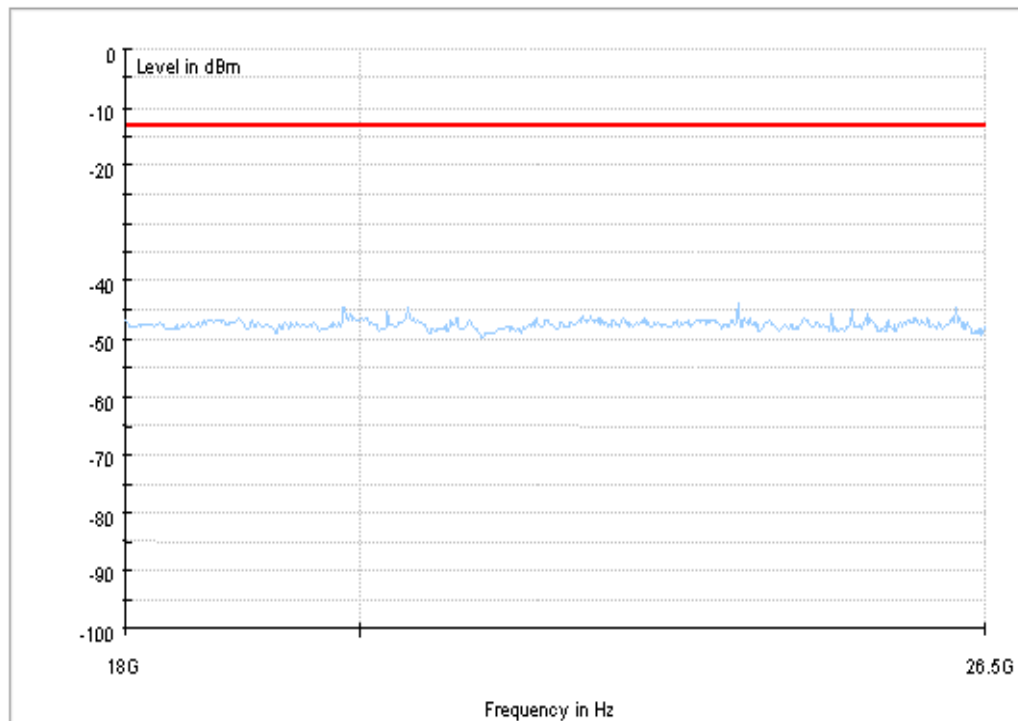
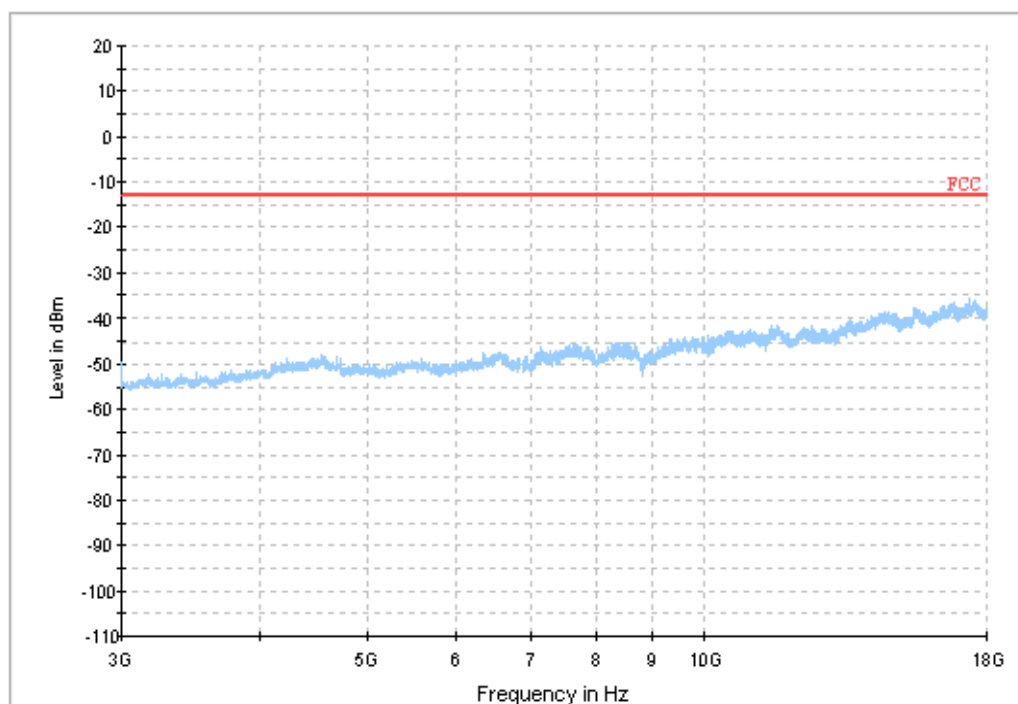
### 7.2.2.1 Test Mode = UMTS/TM1



Copy of FCC PART24 WCDMA1900\_L

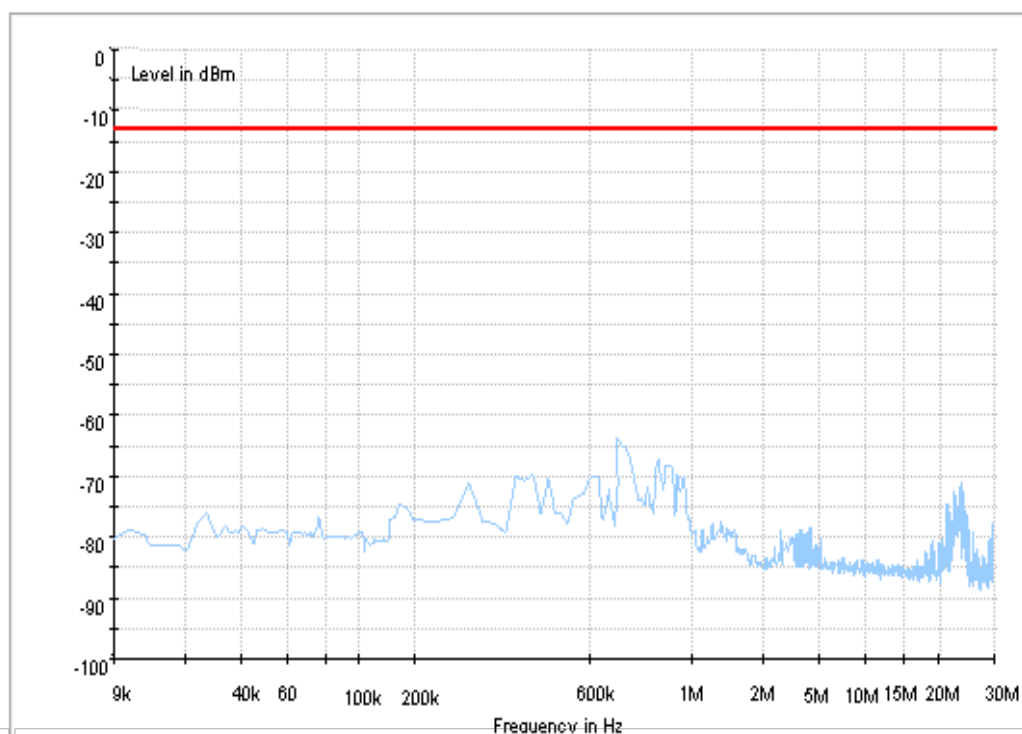


Copy of FCC PART24 WCDMA1900\_H

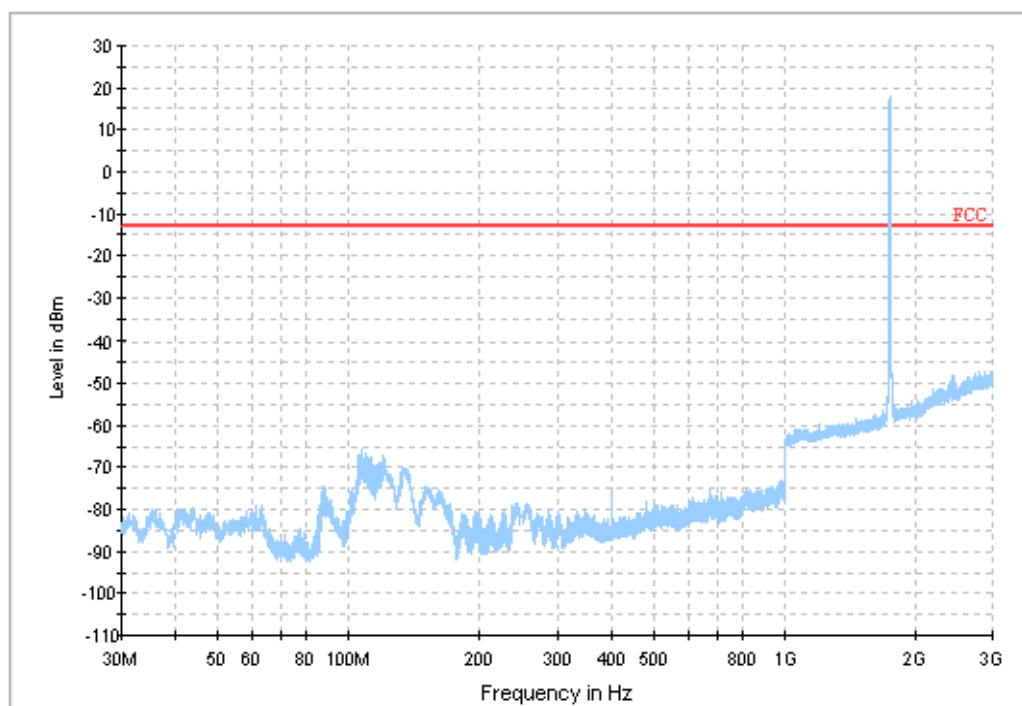


## 7.2.3 Test Band = WCDMA1700

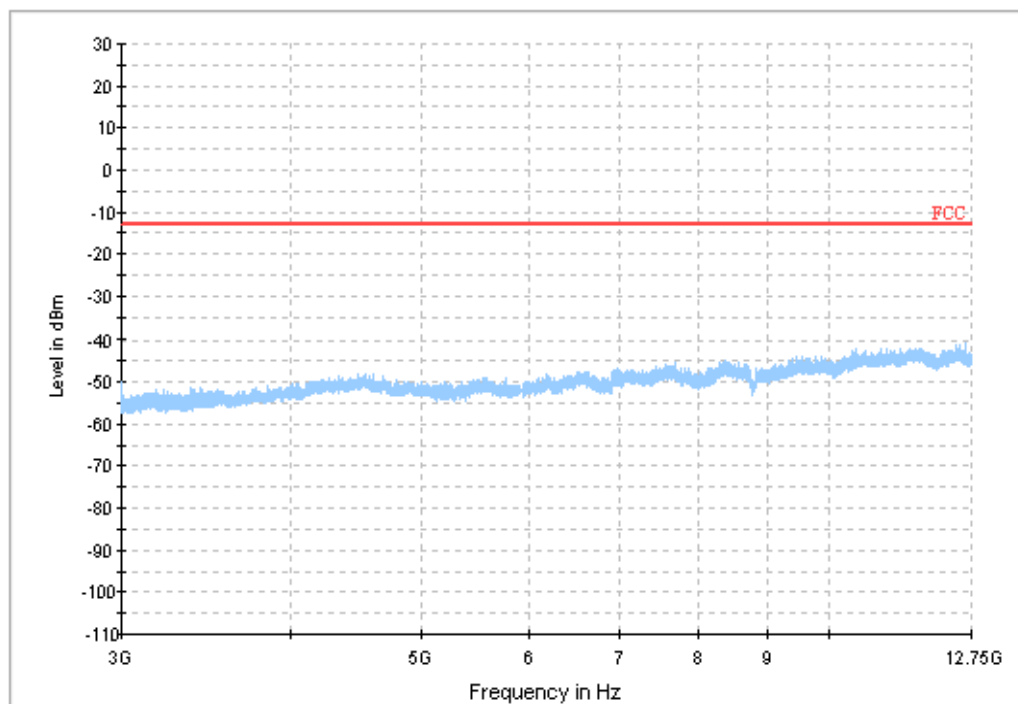
### 7.2.3.1 Test Mode = UMTS/TM1



Copy of RSE - TX - UMTS BAND IV\_L



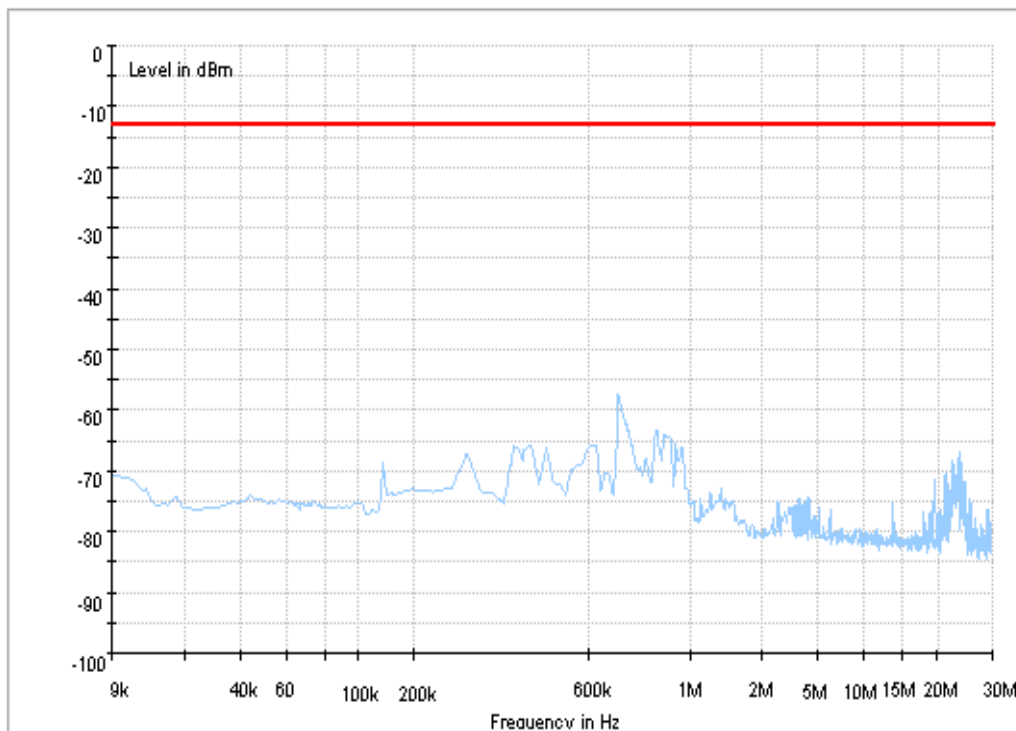
Copy of RSE - TX - UMTS BAND IV\_H



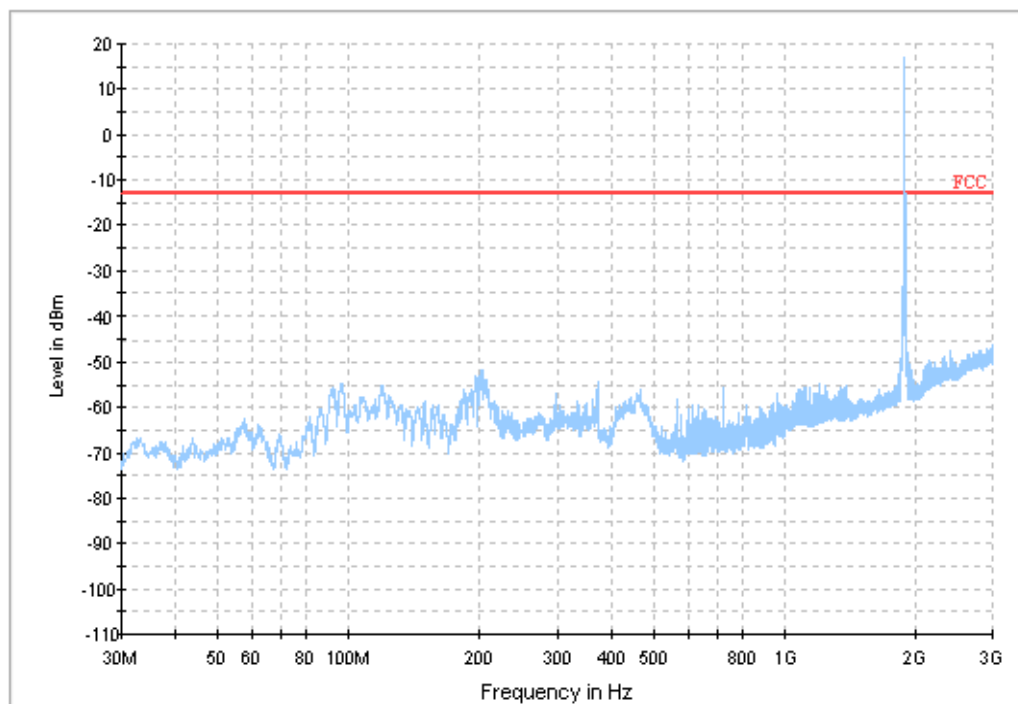
### 7.3 For LTE

#### 7.3.1 Test Band = BAND2

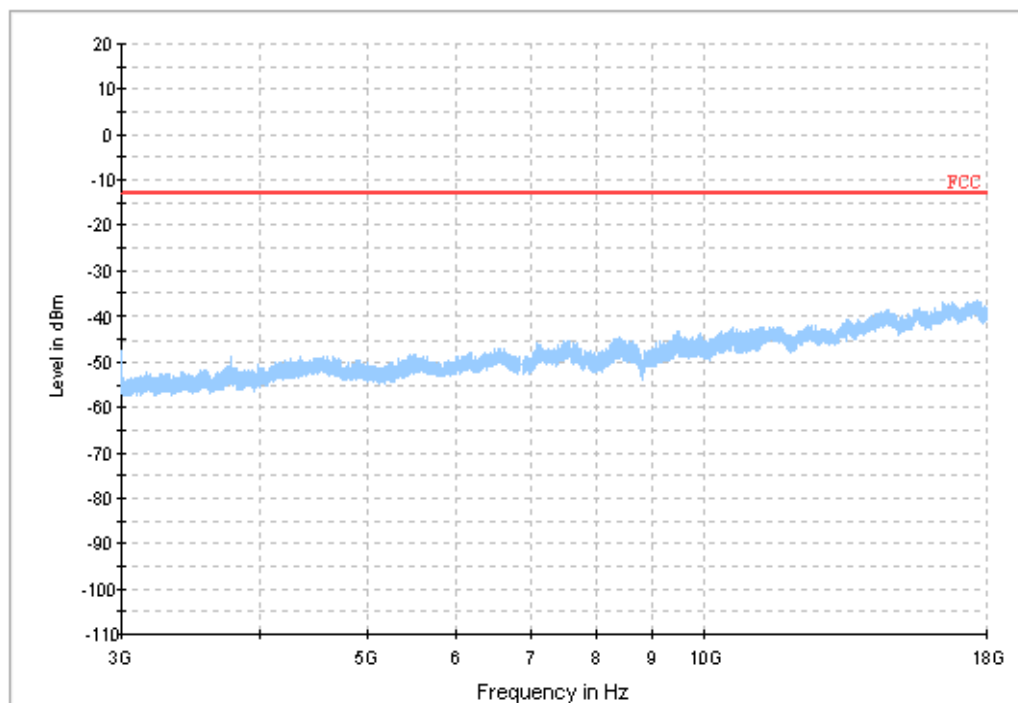
##### 7.3.1.1 Test Bandwidth = 5

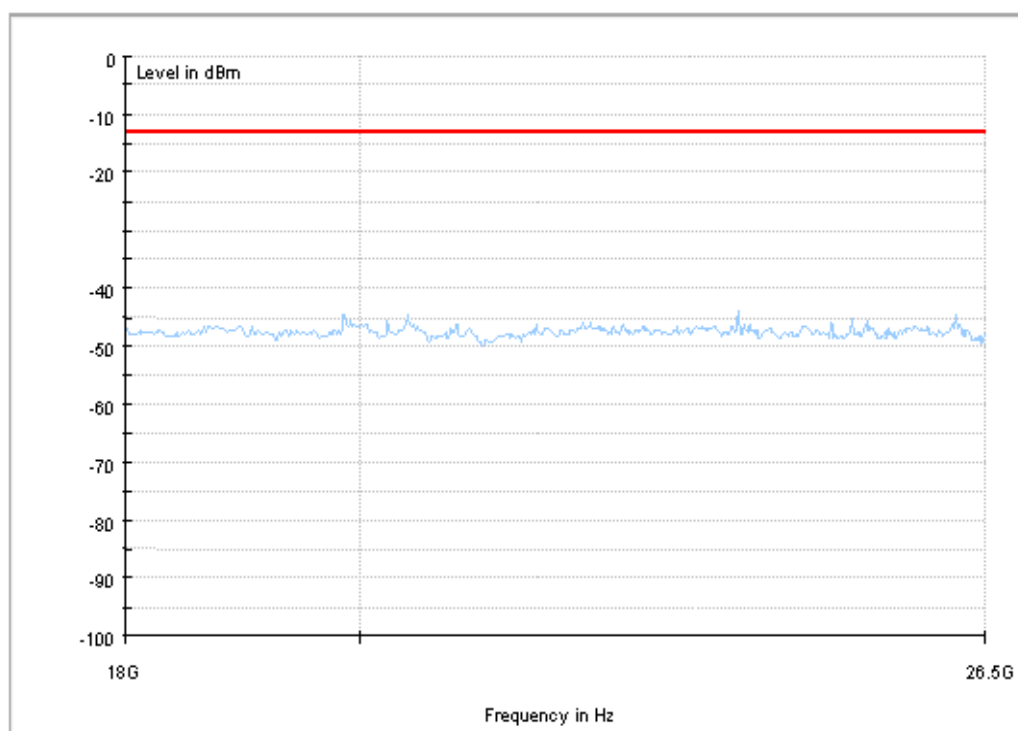


Copy of FCC PART24 LTE Band 2\_L

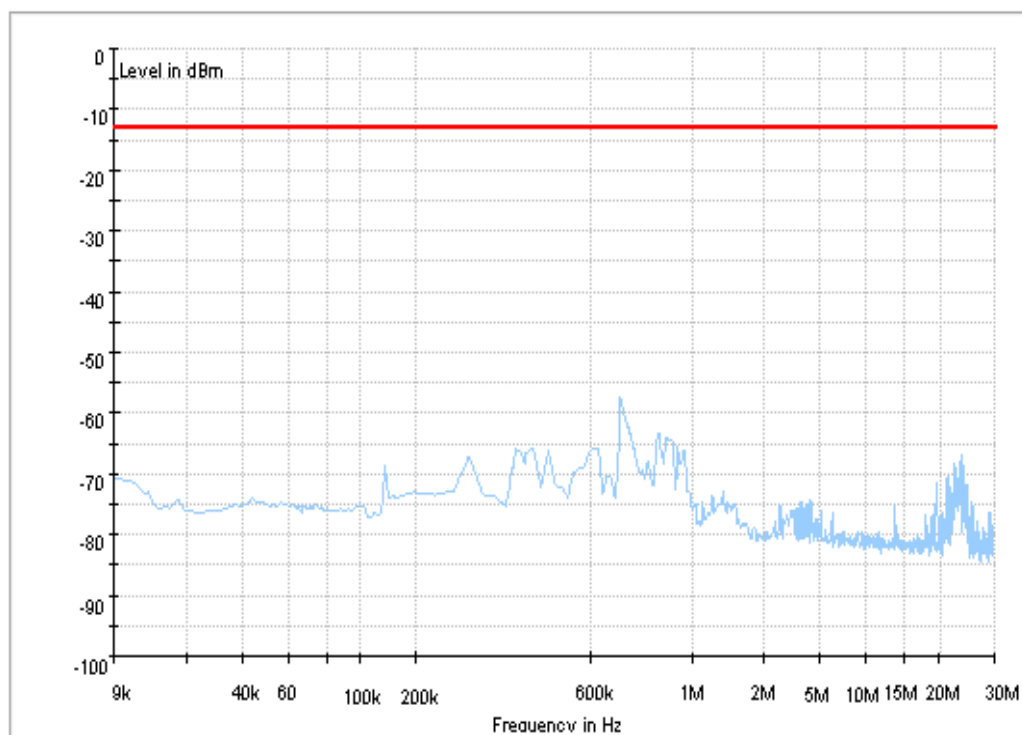


Copy of FCC PART24 LTE Band 2\_H

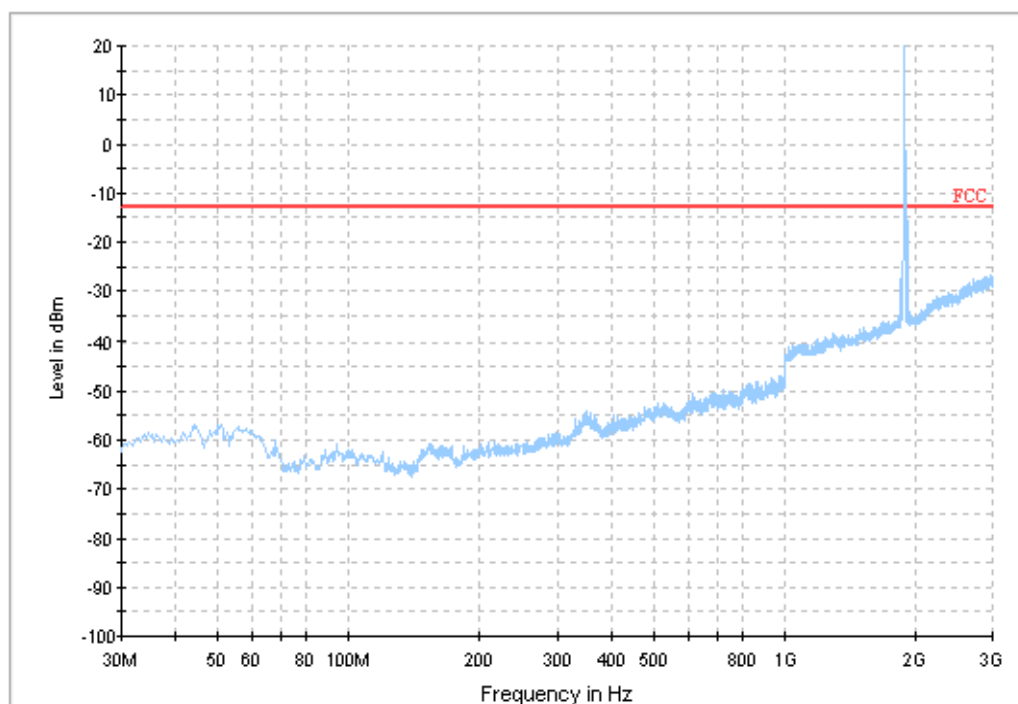




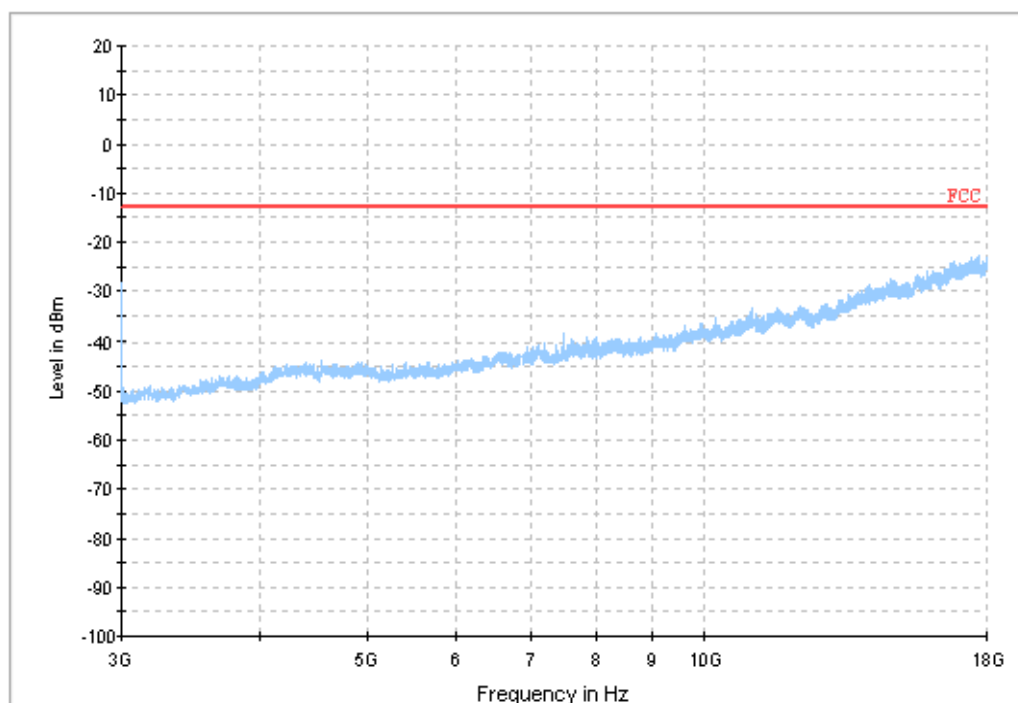
### 7.3.1.2 Test Bandwidth = 20

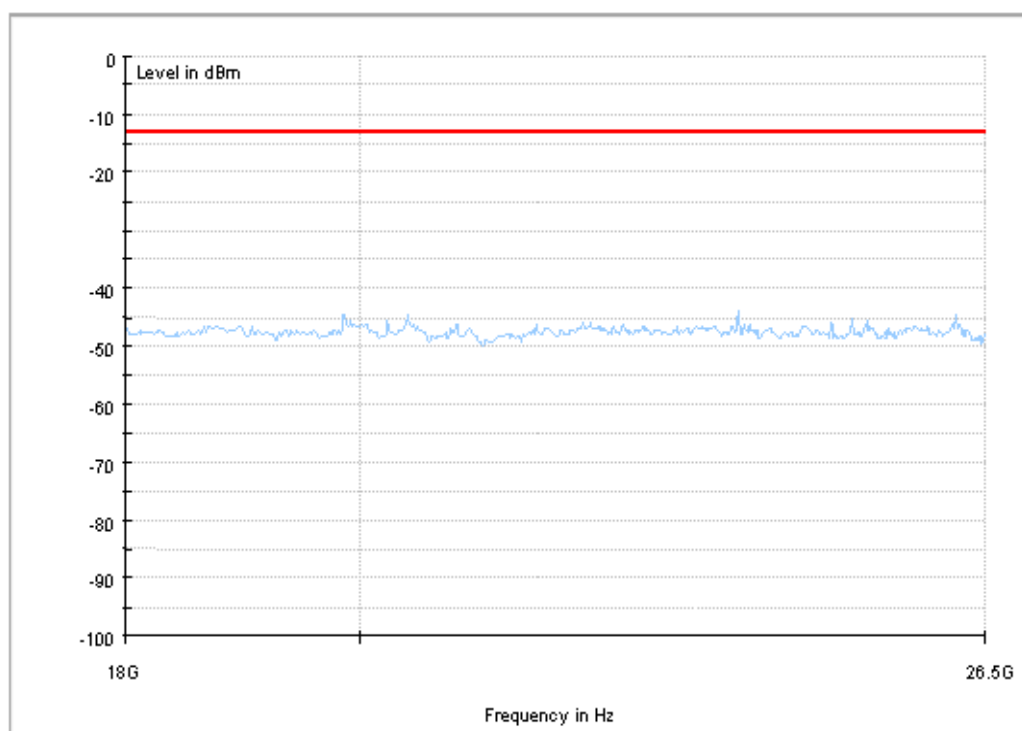


Copy of RSE-TX-DIRECTOR ABOVE 1.5G\_L



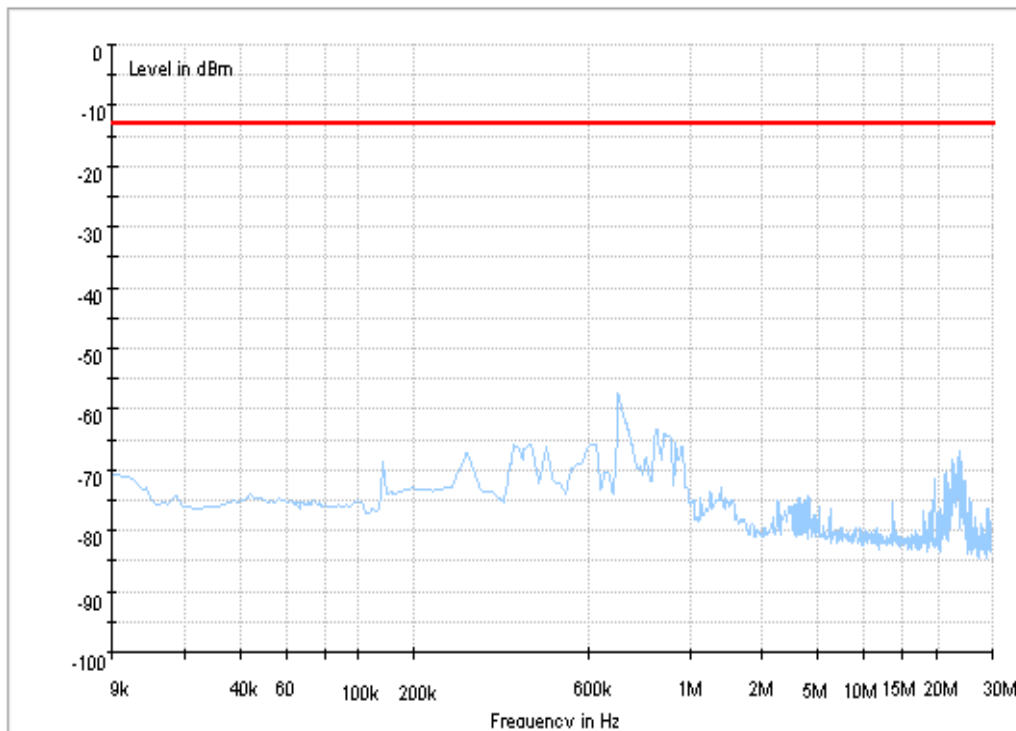
Copy of RSE-TX-DIRECTOR ABOVE 1.5G\_H



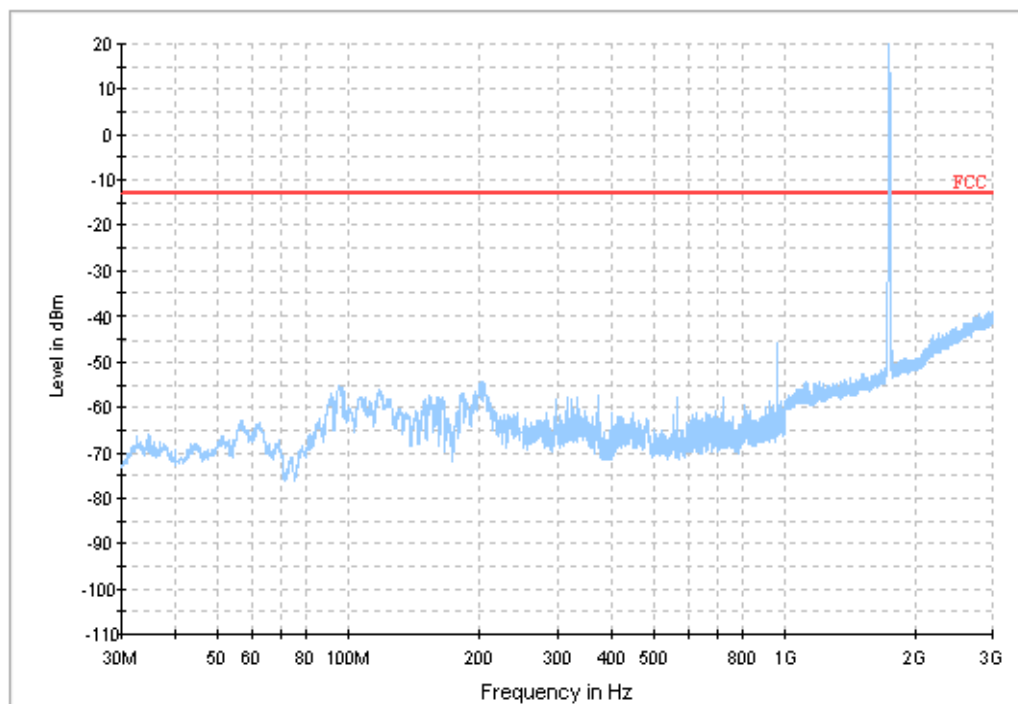


### 7.3.2 Test Band = BAND4

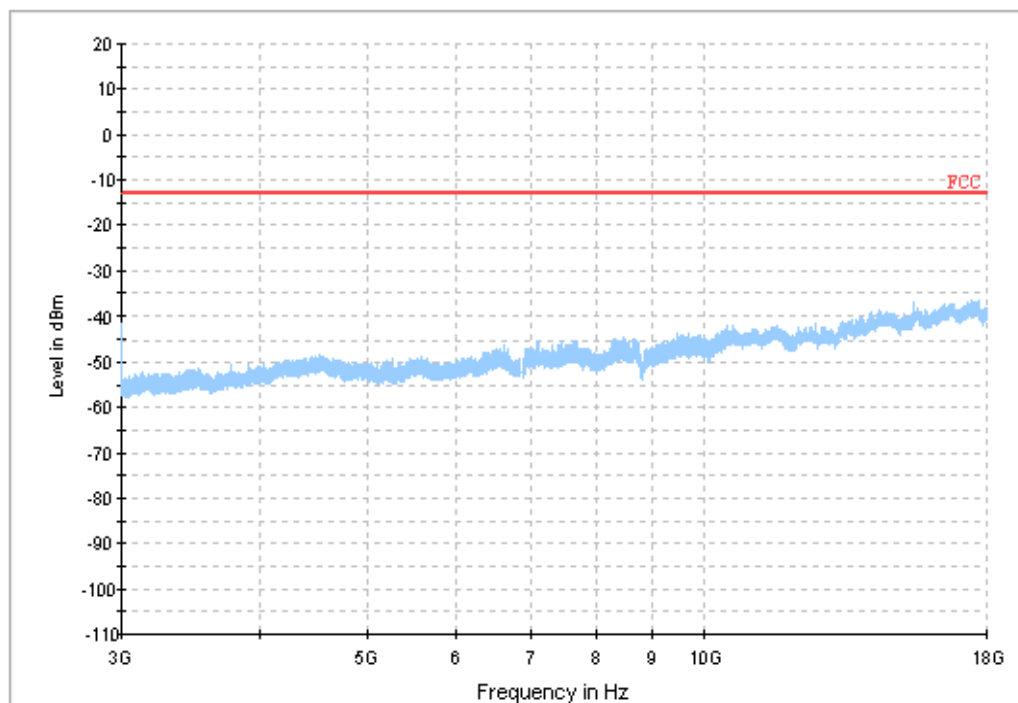
#### 7.3.2.1 Test Bandwidth = 5



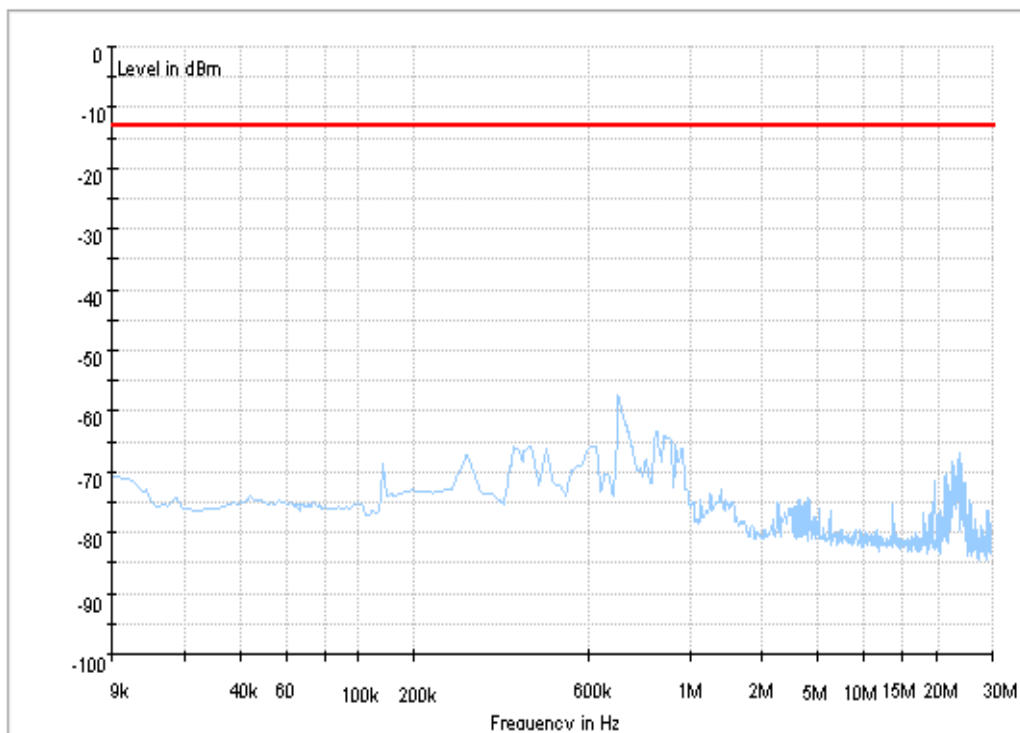
Copy of FCC PART27 LTE Band 4\_L



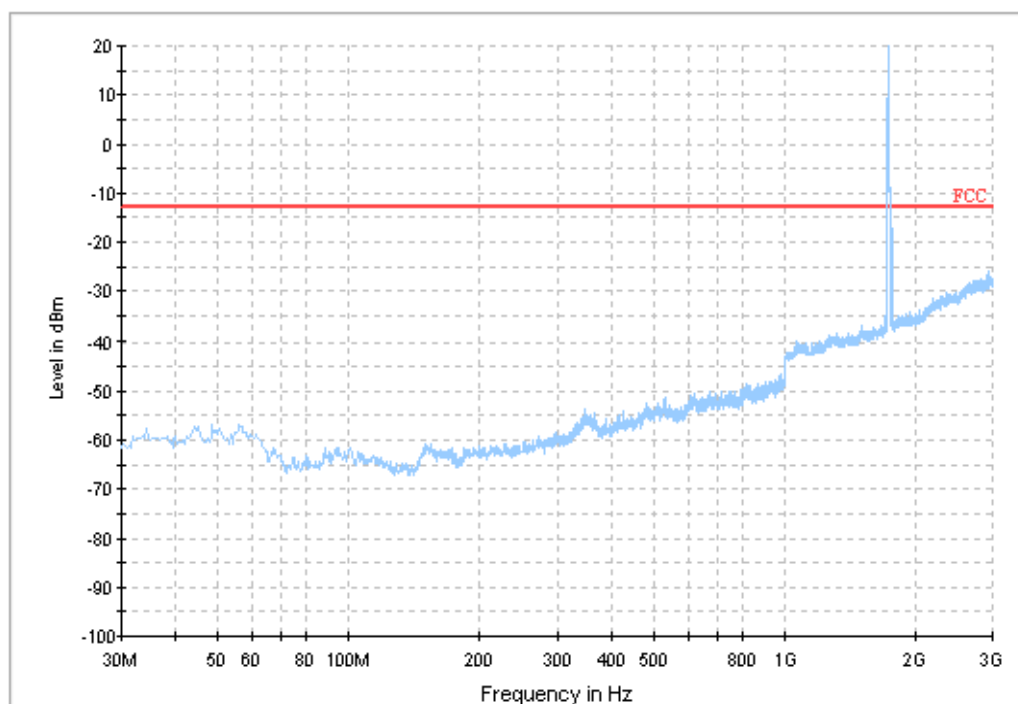
Copy of FCC PART27 LTE Band 4\_H



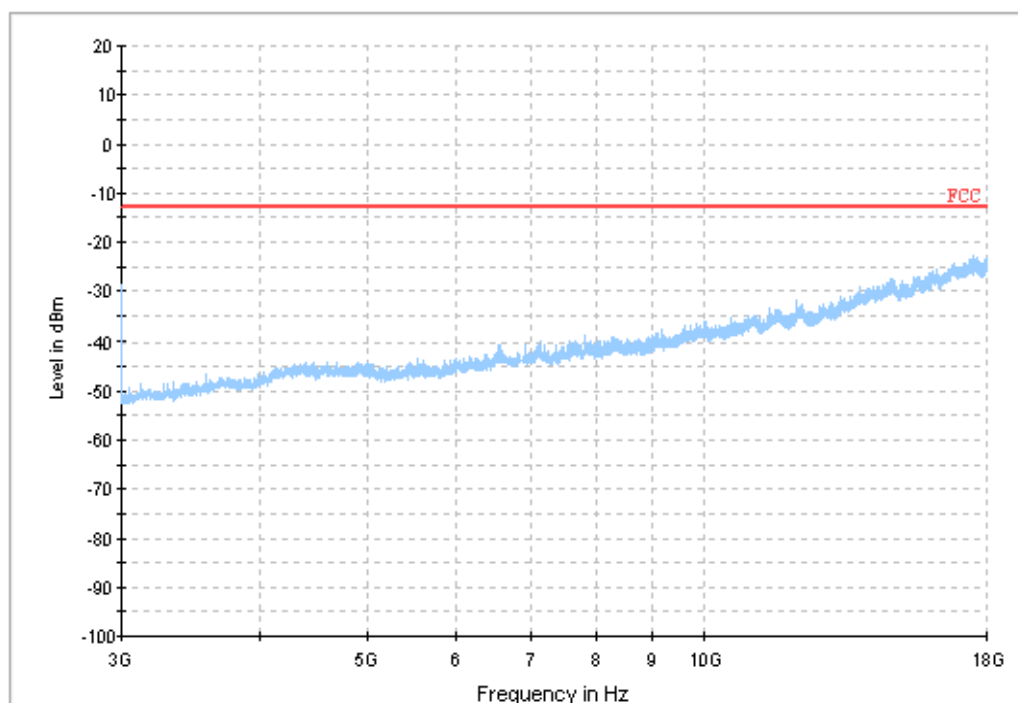
### 7.3.2.2 Test Bandwidth = 20



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

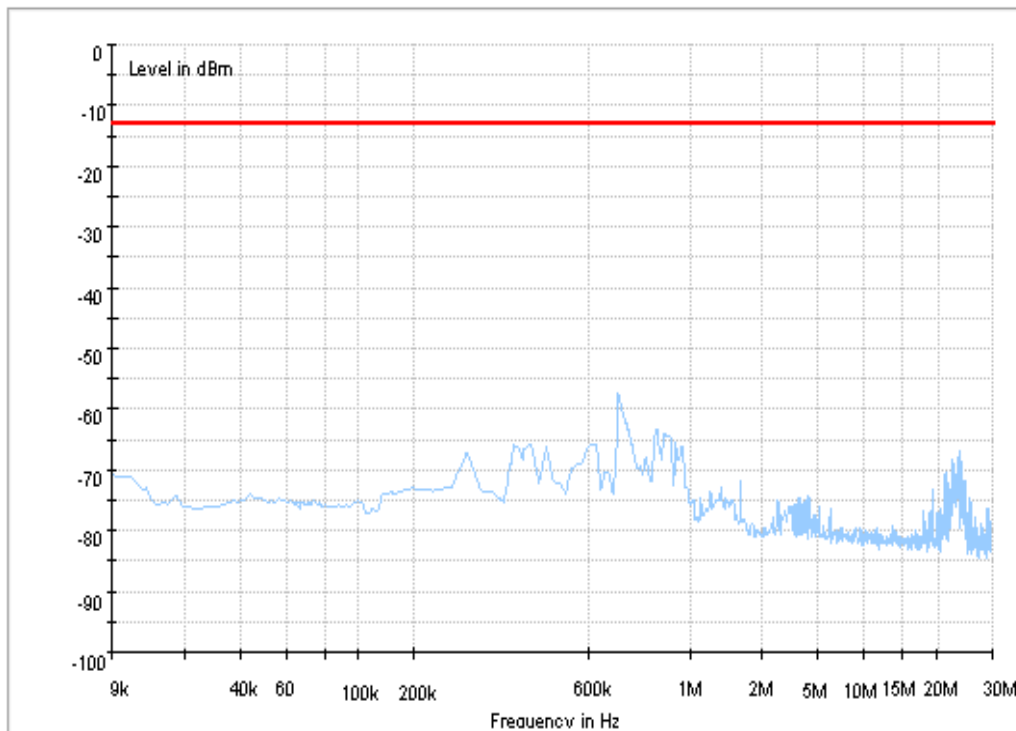


Copy of RSE-TX-DIRECTOR ABOVE 1.5G\_H

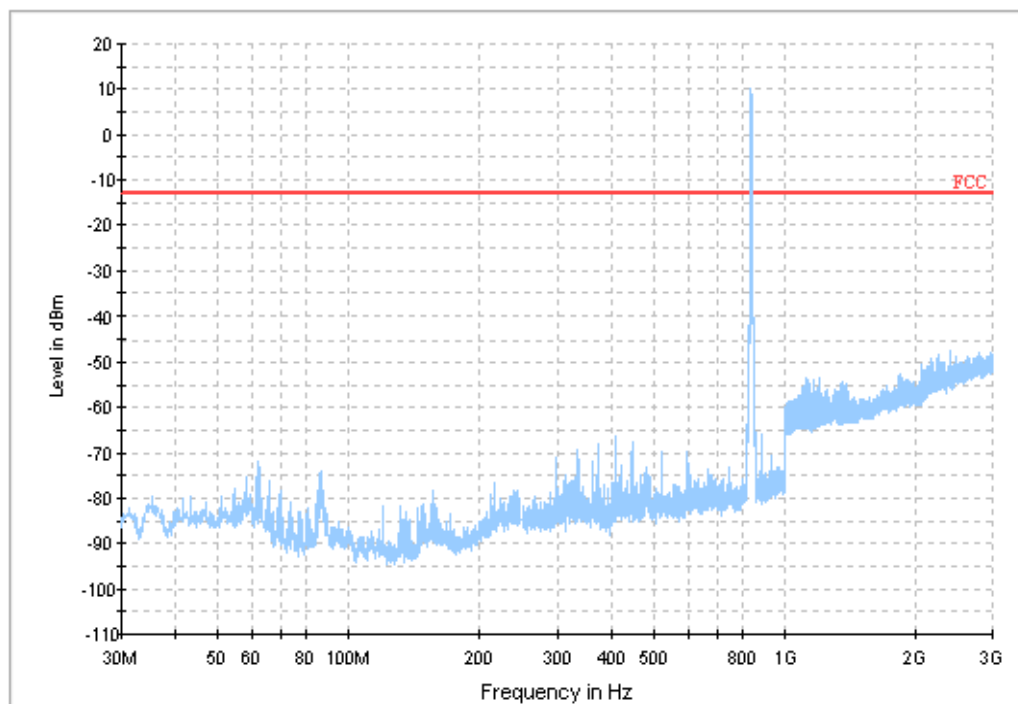


### 7.3.3 Test Band = BAND5

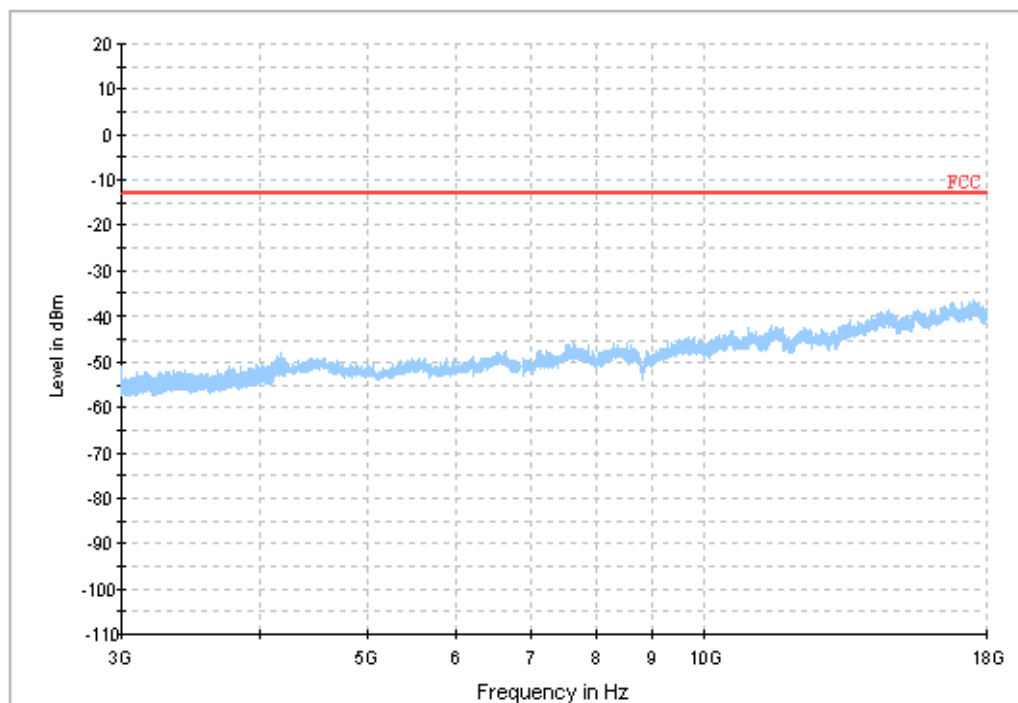
#### 7.3.3.1 Test Bandwidth = 5



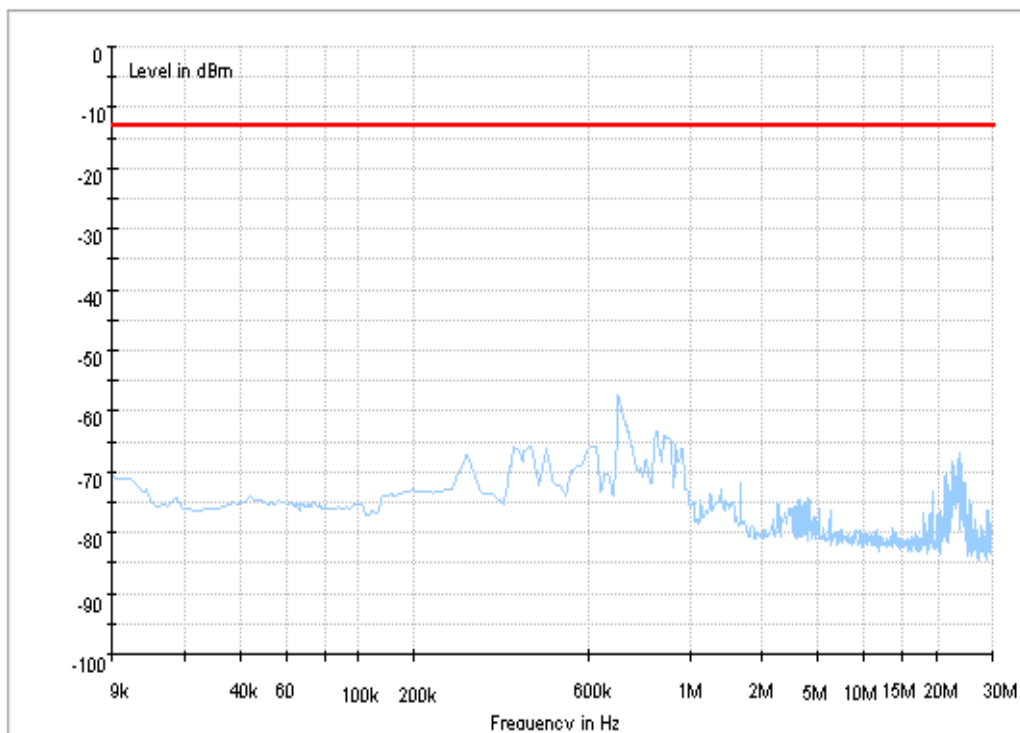
Copy of FCC PART22 LTE Band 5\_L



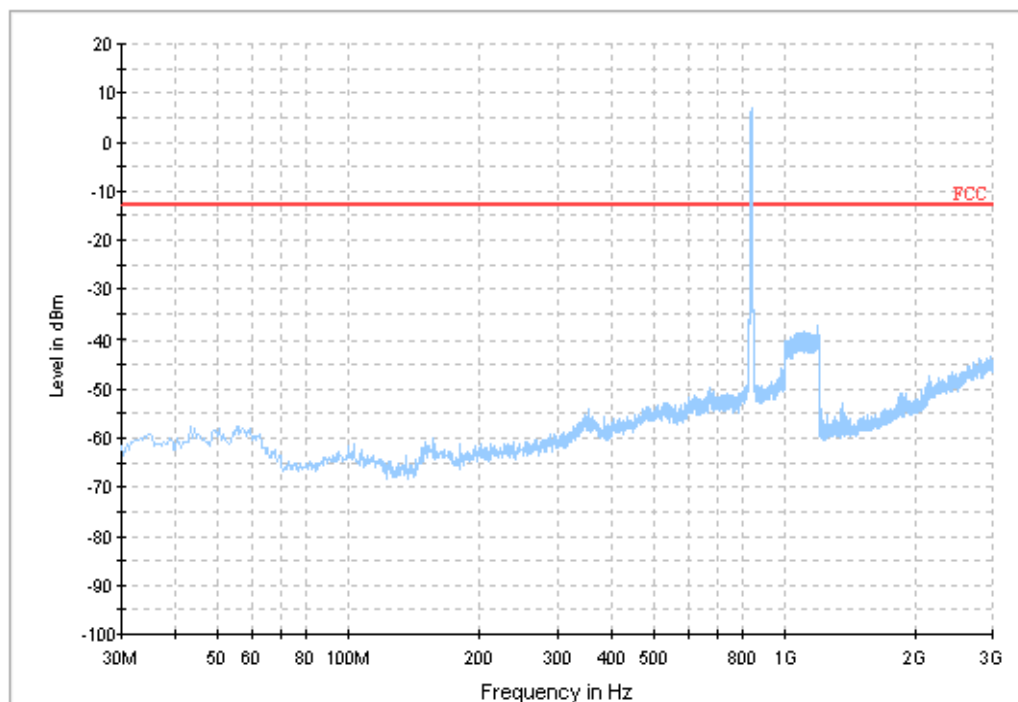
Copy of FCC PART22 LTE Band 5\_H



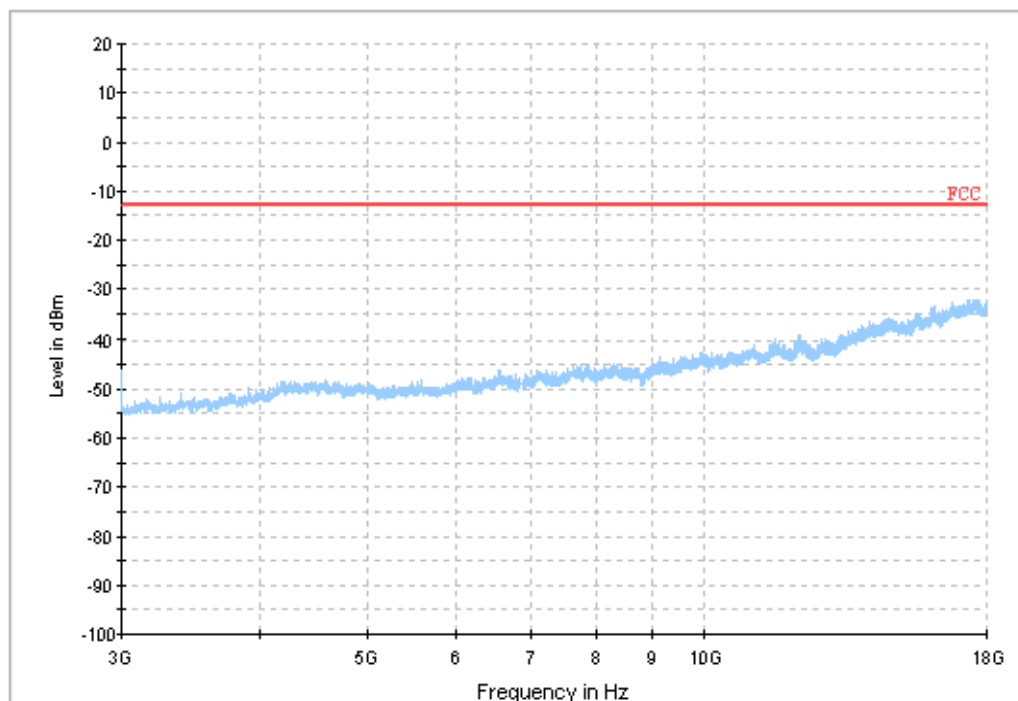
### 7.3.3.2 Test Bandwidth = 10



Copy of RSE-TX-DIRECTOR BELOW 1G\_L



Copy of RSE-TX-DIRECTOR BELOW 1G\_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         | -0.52            | -0.00063              | PASS    |
|           |           |              |            | VN         | -3.03            | -0.00368              | PASS    |
|           |           |              |            | VH         | -2.20            | -0.00267              | PASS    |
|           |           | MCH          | TN         | VL         | 1.68             | 0.00201               | PASS    |
|           |           |              |            | VN         | 0.77             | 0.00092               | PASS    |
|           |           |              |            | VH         | 4.52             | 0.0054                | PASS    |
|           |           | HCH          | TN         | VL         | 1.87             | 0.0022                | PASS    |
|           |           |              |            | VN         | 0.97             | 0.00114               | PASS    |
|           |           |              |            | VH         | -0.84            | -0.00099              | PASS    |
|           | GSM/TM2   | LCH          | TN         | VL         | -9.17            | -0.01113              | PASS    |
|           |           |              |            | VN         | -10.36           | -0.01257              | PASS    |
|           |           |              |            | VH         | -13.88           | -0.01684              | PASS    |
|           |           | MCH          | TN         | VL         | -11.53           | -0.01378              | PASS    |
|           |           |              |            | VN         | -0.94            | -0.00112              | PASS    |
|           |           |              |            | VH         | -8.88            | -0.01061              | PASS    |
|           |           | HCH          | TN         | VL         | -6.68            | -0.00787              | PASS    |
|           |           |              |            | VN         | -7.75            | -0.00913              | PASS    |
|           |           |              |            | VH         | -6.81            | -0.00802              | PASS    |
| GSM1900   | GSM/TM1   | LCH          | TN         | VL         | 13.56            | 0.00733               | PASS    |
|           |           |              |            | VN         | 7.30             | 0.00395               | PASS    |
|           |           |              |            | VH         | 8.14             | 0.0044                | PASS    |
|           |           | MCH          | TN         | VL         | 20.08            | 0.01068               | PASS    |
|           |           |              |            | VN         | 21.63            | 0.01151               | PASS    |
|           |           |              |            | VH         | 16.14            | 0.00859               | PASS    |
|           |           | HCH          | TN         | VL         | 11.11            | 0.00582               | PASS    |
|           |           |              |            | VN         | 13.24            | 0.00693               | PASS    |
|           |           |              |            | VH         | 11.69            | 0.00612               | PASS    |
|           | GSM/TM2   | LCH          | TN         | VL         | -4.07            | -0.0022               | PASS    |
|           |           |              |            | VN         | -4.81            | -0.0026               | PASS    |
|           |           |              |            | VH         | -2.45            | -0.00132              | PASS    |
|           |           | MCH          | TN         | VL         | 2.58             | 0.00137               | PASS    |
|           |           |              |            | VN         | 6.68             | 0.00355               | PASS    |
|           |           |              |            | VH         | 9.65             | 0.00513               | PASS    |

| Test Band | Test Mode | Test Channel | Test Temp. | Test Volt. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|--------------|------------|------------|------------------|-----------------------|---------|
|           |           | HCH          | TN         | VL         | 13.85            | 0.00725               | PASS    |
|           |           |              |            | VN         | -1.39            | -0.00073              | PASS    |
|           |           |              |            | VH         | 7.81             | 0.00409               | PASS    |

### 8.1.2 Frequency Error vs. Temperature:

| Test Band | Test Mode | Test Channel | Test Volt. | Test Temp. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|--------------|------------|------------|------------------|-----------------------|---------|
| GSM850    | GSM/TM1   | LCH          | VN         | -30        | -1.87            | -0.00227              | PASS    |
|           |           |              |            | -20        | -3.81            | -0.00462              | PASS    |
|           |           |              |            | -10        | -4.65            | -0.00564              | PASS    |
|           |           |              |            | 0          | -3.03            | -0.00368              | PASS    |
|           |           |              |            | 10         | -1.03            | -0.00125              | PASS    |
|           |           |              |            | 20         | -0.84            | -0.00102              | PASS    |
|           |           |              |            | 30         | -2.78            | -0.00337              | PASS    |
|           |           |              |            | 40         | -1.87            | -0.00227              | PASS    |
|           |           |              |            | 50         | -0.58            | -0.0007               | PASS    |
|           |           | MCH          | VN         | -30        | -0.32            | -0.00038              | PASS    |
|           |           |              |            | -20        | 1.42             | 0.0017                | PASS    |
|           |           |              |            | -10        | 1.03             | 0.00123               | PASS    |
|           |           |              |            | 0          | 2.84             | 0.00339               | PASS    |
|           |           |              |            | 10         | 0.52             | 0.00062               | PASS    |
|           |           |              |            | 20         | 1.87             | 0.00224               | PASS    |
|           |           |              |            | 30         | 1.49             | 0.00178               | PASS    |
|           |           |              |            | 40         | 2.97             | 0.00355               | PASS    |
|           |           |              |            | 50         | -0.06            | -0.00007              | PASS    |
|           |           | HCH          | VN         | -30        | 4.07             | 0.0048                | PASS    |
|           |           |              |            | -20        | 2.45             | 0.00289               | PASS    |
|           |           |              |            | -10        | 1.29             | 0.00152               | PASS    |
|           |           |              |            | 0          | 1.49             | 0.00176               | PASS    |
|           |           |              |            | 10         | 2.58             | 0.00304               | PASS    |
|           |           |              |            | 20         | 1.81             | 0.00213               | PASS    |
|           |           |              |            | 30         | 2.58             | 0.00304               | PASS    |
|           |           |              |            | 40         | 3.16             | 0.00372               | PASS    |
|           |           |              |            | 50         | 0.58             | 0.00068               | PASS    |
|           | GSM/TM2   | LCH          | VN         | -30        | -7.62            | -0.00925              | PASS    |
|           |           |              |            | -20        | -14.21           | -0.01724              | PASS    |
|           |           |              |            | -10        | -14.17           | -0.01719              | PASS    |
|           |           |              |            | 0          | -8.14            | -0.00988              | PASS    |
|           |           |              |            | 10         | -14.66           | -0.01779              | PASS    |

| Test Band | Test Mode | Test Channel | Test Volt. | Test Temp. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|--------------|------------|------------|------------------|-----------------------|---------|
|           |           |              |            | 20         | -13.40           | -0.01626              | PASS    |
|           |           |              |            | 30         | -7.20            | -0.00874              | PASS    |
|           |           |              |            | 40         | -8.01            | -0.00972              | PASS    |
|           |           |              |            | 50         | -11.30           | -0.01371              | PASS    |
|           |           | MCH          | VN         | -30        | -4.78            | -0.00571              | PASS    |
|           |           |              |            | -20        | -3.71            | -0.00443              | PASS    |
|           |           |              |            | -10        | -6.55            | -0.00783              | PASS    |
|           |           |              |            | 0          | -12.07           | -0.01443              | PASS    |
|           |           |              |            | 10         | -11.78           | -0.01408              | PASS    |
|           |           |              |            | 20         | -3.26            | -0.0039               | PASS    |
|           |           |              |            | 30         | -9.72            | -0.01162              | PASS    |
|           |           |              |            | 40         | -7.68            | -0.00918              | PASS    |
|           |           |              |            | 50         | -9.52            | -0.01138              | PASS    |
|           |           | HCH          | VN         | -30        | -0.77            | -0.00091              | PASS    |
|           |           |              |            | -20        | -7.01            | -0.00826              | PASS    |
|           |           |              |            | -10        | -8.04            | -0.00947              | PASS    |
|           |           |              |            | 0          | -7.04            | -0.00829              | PASS    |
|           |           |              |            | 10         | -4.84            | -0.0057               | PASS    |
|           |           |              |            | 20         | -7.43            | -0.00875              | PASS    |
|           |           |              |            | 30         | -7.39            | -0.00871              | PASS    |
|           |           |              |            | 40         | -10.40           | -0.01225              | PASS    |
|           |           |              |            | 50         | -10.20           | -0.01202              | PASS    |
| GSM1900   | GSM/TM1   | LCH          | VN         | -30        | 3.03             | 0.00164               | PASS    |
|           |           |              |            | -20        | 11.43            | 0.00618               | PASS    |
|           |           |              |            | -10        | 7.94             | 0.00429               | PASS    |
|           |           |              |            | 0          | 5.42             | 0.00293               | PASS    |
|           |           |              |            | 10         | 9.23             | 0.00499               | PASS    |
|           |           |              |            | 20         | 8.46             | 0.00457               | PASS    |
|           |           |              |            | 30         | 5.23             | 0.00283               | PASS    |
|           |           |              |            | 40         | 6.07             | 0.00328               | PASS    |
|           |           |              |            | 50         | 6.20             | 0.00335               | PASS    |
|           |           | MCH          | VN         | -30        | 18.85            | 0.01003               | PASS    |
|           |           |              |            | -20        | 18.98            | 0.0101                | PASS    |
|           |           |              |            | -10        | 14.46            | 0.00769               | PASS    |
|           |           |              |            | 0          | 19.44            | 0.01034               | PASS    |
|           |           |              |            | 10         | 14.08            | 0.00749               | PASS    |
|           |           |              |            | 20         | 17.95            | 0.00955               | PASS    |
|           |           |              |            | 30         | 21.44            | 0.0114                | PASS    |
|           |           |              |            | 40         | 19.57            | 0.01041               | PASS    |
|           |           |              |            | 50         | 15.17            | 0.00807               | PASS    |

| Test Band | Test Mode | Test Channel | Test Volt. | Test Temp. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|--------------|------------|------------|------------------|-----------------------|---------|
|           |           | HCH          | VN         | -30        | 14.72            | 0.00771               | PASS    |
|           |           |              |            | -20        | 12.66            | 0.00663               | PASS    |
|           |           |              |            | -10        | 8.52             | 0.00446               | PASS    |
|           |           |              |            | 0          | 13.43            | 0.00703               | PASS    |
|           |           |              |            | 10         | 9.04             | 0.00473               | PASS    |
|           |           |              |            | 20         | 12.79            | 0.0067                | PASS    |
|           |           |              |            | 30         | 16.27            | 0.00852               | PASS    |
|           |           |              |            | 40         | 16.79            | 0.00879               | PASS    |
|           |           |              |            | 50         | 19.76            | 0.01035               | PASS    |
|           | GSM/TM2   | LCH          | VN         | -30        | -8.68            | -0.00469              | PASS    |
|           |           |              |            | -20        | -3.97            | -0.00215              | PASS    |
|           |           |              |            | -10        | -0.68            | -0.00037              | PASS    |
|           |           |              |            | 0          | -3.00            | -0.00162              | PASS    |
|           |           |              |            | 10         | 0.68             | 0.00037               | PASS    |
|           |           |              |            | 20         | 3.45             | 0.00186               | PASS    |
|           |           |              |            | 30         | -6.10            | -0.0033               | PASS    |
|           |           |              |            | 40         | 5.39             | 0.00291               | PASS    |
|           |           |              |            | 50         | 3.13             | 0.00169               | PASS    |
|           |           | MCH          | VN         | -30        | 10.85            | 0.00577               | PASS    |
|           |           |              |            | -20        | 16.21            | 0.00862               | PASS    |
|           |           |              |            | -10        | 14.85            | 0.0079                | PASS    |
|           |           |              |            | 0          | 9.72             | 0.00517               | PASS    |
|           |           |              |            | 10         | 11.07            | 0.00589               | PASS    |
|           |           |              |            | 20         | 12.33            | 0.00656               | PASS    |
|           |           |              |            | 30         | 15.30            | 0.00814               | PASS    |
|           |           |              |            | 40         | 11.78            | 0.00627               | PASS    |
|           |           |              |            | 50         | 13.04            | 0.00694               | PASS    |
|           |           | HCH          | VN         | -30        | 4.29             | 0.00225               | PASS    |
|           |           |              |            | -20        | 6.20             | 0.00325               | PASS    |
|           |           |              |            | -10        | 3.16             | 0.00165               | PASS    |
|           |           |              |            | 0          | 5.68             | 0.00297               | PASS    |
|           |           |              |            | 10         | 6.17             | 0.00323               | PASS    |
|           |           |              |            | 20         | -3.00            | -0.00157              | PASS    |
|           |           |              |            | 30         | -4.49            | -0.00235              | PASS    |
|           |           |              |            | 40         | 6.46             | 0.00338               | PASS    |
|           |           |              |            | 50         | 3.91             | 0.00205               | 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         | -13.11           | -0.01586              | PASS    |
|           |           |              |            | VN         | 2.81             | 0.0034                | PASS    |
|           |           |              |            | VH         | -4.67            | -0.00565              | PASS    |
|           |           | MCH          | TN         | VL         | -3.88            | -0.00464              | PASS    |
|           |           |              |            | VN         | -1.37            | -0.00164              | PASS    |
|           |           |              |            | VH         | -4.43            | -0.0053               | PASS    |
|           |           | HCH          | TN         | VL         | -2.47            | -0.00292              | PASS    |
|           |           |              |            | VN         | -5.81            | -0.00686              | PASS    |
|           |           |              |            | VH         | -3.77            | -0.00445              | PASS    |
| WCDMA1900 | UMTS/TM1  | LCH          | TN         | VL         | 7.25             | 0.00391               | PASS    |
|           |           |              |            | VN         | 2.75             | 0.00148               | PASS    |
|           |           |              |            | VH         | 3.42             | 0.00185               | PASS    |
|           |           | MCH          | TN         | VL         | -0.75            | -0.0004               | PASS    |
|           |           |              |            | VN         | -8.32            | -0.00443              | PASS    |
|           |           |              |            | VH         | -2.85            | -0.00152              | PASS    |
|           |           | HCH          | TN         | VL         | 11.89            | 0.00623               | PASS    |
|           |           |              |            | VN         | -5.91            | -0.0031               | PASS    |
|           |           |              |            | VH         | -0.02            | -0.00001              | PASS    |
| WCDMA1700 | UMTS/TM1  | LCH          | TN         | VL         | 15.37            | 0.00898               | PASS    |
|           |           |              |            | VN         | -6.94            | -0.00405              | PASS    |
|           |           |              |            | VH         | -1.66            | -0.00097              | PASS    |
|           |           | MCH          | TN         | VL         | 4.35             | 0.00251               | PASS    |
|           |           |              |            | VN         | 5.37             | 0.0031                | PASS    |
|           |           |              |            | VH         | 0.14             | 0.00008               | PASS    |
|           |           | HCH          | TN         | VL         | 3.65             | 0.00208               | PASS    |
|           |           |              |            | VN         | 5.46             | 0.00312               | PASS    |
|           |           |              |            | VH         | -10.06           | -0.00574              | PASS    |

## 8.2.2Frequency 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        | -15.93           | -0.01928              | PASS    |
|           |           |              |            | -20        | -9.52            | -0.01152              | PASS    |
|           |           |              |            | -10        | -8.15            | -0.00986              | PASS    |
|           |           |              |            | 0          | -9.12            | -0.01104              | PASS    |
|           |           |              |            | 10         | -10.50           | -0.01271              | PASS    |
|           |           |              |            | 20         | -0.75            | -0.00091              | PASS    |
|           |           |              |            | 30         | -6.30            | -0.00762              | PASS    |
|           |           |              |            | 40         | -5.89            | -0.00713              | PASS    |

| Test Band | Test Mode | Test Channel | Test Volt. | Test Temp. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|--------------|------------|------------|------------------|-----------------------|---------|
|           |           | MCH          | VN         | 50         | -13.37           | -0.01618              | PASS    |
|           |           |              |            | -30        | -4.64            | -0.00555              | PASS    |
|           |           |              |            | -20        | -13.52           | -0.01616              | PASS    |
|           |           |              |            | -10        | -8.73            | -0.01044              | PASS    |
|           |           |              |            | 0          | -4.41            | -0.00527              | PASS    |
|           |           |              |            | 10         | -7.66            | -0.00916              | PASS    |
|           |           |              |            | 20         | -0.67            | -0.0008               | PASS    |
|           |           |              |            | 30         | -0.05            | -0.00006              | PASS    |
|           |           |              |            | 40         | -12.44           | -0.01487              | PASS    |
|           |           |              |            | 50         | -4.88            | -0.00583              | PASS    |
|           |           | HCH          | VN         | -30        | -9.38            | -0.01108              | PASS    |
|           |           |              |            | -20        | -12.44           | -0.01469              | PASS    |
|           |           |              |            | -10        | -2.61            | -0.00308              | PASS    |
|           |           |              |            | 0          | -10.71           | -0.01265              | PASS    |
|           |           |              |            | 10         | -12.15           | -0.01435              | PASS    |
|           |           |              |            | 20         | -6.71            | -0.00793              | PASS    |
|           |           |              |            | 30         | -8.47            | -0.01                 | PASS    |
|           |           |              |            | 40         | -8.85            | -0.01045              | PASS    |
|           |           |              |            | 50         | -4.87            | -0.00575              | PASS    |
| WCDMA1900 | UMTS/TM1  | LCH          | VN         | -30        | -0.90            | -0.00049              | PASS    |
|           |           |              |            | -20        | 2.04             | 0.0011                | PASS    |
|           |           |              |            | -10        | 0.90             | 0.00049               | PASS    |
|           |           |              |            | 0          | 1.68             | 0.00091               | PASS    |
|           |           |              |            | 10         | 8.04             | 0.00434               | PASS    |
|           |           |              |            | 20         | 6.44             | 0.00348               | PASS    |
|           |           |              |            | 30         | 4.67             | 0.00252               | PASS    |
|           |           |              |            | 40         | 6.07             | 0.00328               | PASS    |
|           |           |              |            | 50         | 4.36             | 0.00235               | PASS    |
|           |           | MCH          | VN         | -30        | 0.32             | 0.00017               | PASS    |
|           |           |              |            | -20        | 2.76             | 0.00147               | PASS    |
|           |           |              |            | -10        | -8.09            | -0.0043               | PASS    |
|           |           |              |            | 0          | 8.18             | 0.00435               | PASS    |
|           |           |              |            | 10         | 0.31             | 0.00016               | PASS    |
|           |           |              |            | 20         | -4.82            | -0.00256              | PASS    |
|           |           |              |            | 30         | 2.26             | 0.0012                | PASS    |
|           |           |              |            | 40         | -2.06            | -0.0011               | PASS    |
|           |           |              |            | 50         | 5.37             | 0.00286               | PASS    |
|           |           | HCH          | VN         | -30        | 0.50             | 0.00026               | PASS    |
|           |           |              |            | -20        | -3.86            | -0.00202              | PASS    |
|           |           |              |            | -10        | 9.09             | 0.00477               | PASS    |

| Test Band | Test Mode | Test Channel | Test Volt. | Test Temp. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|--------------|------------|------------|------------------|-----------------------|---------|
|           |           |              |            | 0          | 1.21             | 0.00063               | PASS    |
|           |           |              |            | 10         | 4.41             | 0.00231               | PASS    |
|           |           |              |            | 20         | 1.79             | 0.00094               | PASS    |
|           |           |              |            | 30         | 2.56             | 0.00134               | PASS    |
|           |           |              |            | 40         | -0.85            | -0.00045              | PASS    |
|           |           |              |            | 50         | 5.13             | 0.00269               | PASS    |
| WCDMA1700 | UMTS/TM1  | LCH          | VN         | -30        | 5.87             | 0.00343               | PASS    |
|           |           |              |            | -20        | 6.27             | 0.00366               | PASS    |
|           |           |              |            | -10        | 8.12             | 0.00474               | PASS    |
|           |           |              |            | 0          | 4.06             | 0.00237               | PASS    |
|           |           |              |            | 10         | -0.89            | -0.00052              | PASS    |
|           |           |              |            | 20         | 3.11             | 0.00182               | PASS    |
|           |           |              |            | 30         | 3.31             | 0.00193               | PASS    |
|           |           |              |            | 40         | -4.73            | -0.00276              | PASS    |
|           |           |              |            | 50         | 0.73             | 0.00043               | PASS    |
|           |           | MCH          | VN         | -30        | 3.20             | 0.00185               | PASS    |
|           |           |              |            | -20        | -2.50            | -0.00144              | PASS    |
|           |           |              |            | -10        | -0.35            | -0.0002               | PASS    |
|           |           |              |            | 0          | 3.52             | 0.00203               | PASS    |
|           |           |              |            | 10         | 2.82             | 0.00163               | PASS    |
|           |           |              |            | 20         | 4.03             | 0.00233               | PASS    |
|           |           |              |            | 30         | 0.64             | 0.00037               | PASS    |
|           |           |              |            | 40         | 0.69             | 0.0004                | PASS    |
|           |           |              |            | 50         | 2.44             | 0.00141               | PASS    |
|           |           | HCH          | VN         | -30        | 5.16             | 0.00294               | PASS    |
|           |           |              |            | -20        | 7.54             | 0.0043                | PASS    |
|           |           |              |            | -10        | 2.06             | 0.00118               | PASS    |
|           |           |              |            | 0          | 1.88             | 0.00107               | PASS    |
|           |           |              |            | 10         | -1.54            | -0.00088              | PASS    |
|           |           |              |            | 20         | 10.67            | 0.00609               | PASS    |
|           |           |              |            | 30         | -0.87            | -0.0005               | PASS    |
|           |           |              |            | 40         | 8.00             | 0.00456               | PASS    |
|           |           |              |            | 50         | 10.86            | 0.0062                | 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 |
|-----------|-----------|----------------------|--------------|------------|------------|------------------|-----------------------|---------|
| BAND2     | LTE/TM1   | 5                    | LCH          | TN         | VL         | 10.67            | 0.00576               | PASS    |
|           |           |                      |              |            | VN         | 1.42             | 0.00077               | PASS    |
|           |           |                      |              |            | VH         | 1.26             | 0.00068               | PASS    |
|           |           |                      | MCH          | TN         | VL         | -1.83            | -0.00097              | PASS    |
|           |           |                      |              |            | VN         | -1.77            | -0.00094              | PASS    |
|           |           |                      |              |            | VH         | -0.33            | -0.00018              | PASS    |
|           |           |                      | HCH          | TN         | VL         | -0.7             | -0.00037              | PASS    |
|           |           |                      |              |            | VN         | -1.95            | -0.00102              | PASS    |
|           |           |                      |              |            | VH         | -43.62           | -0.02287              | PASS    |
|           |           | 10                   | LCH          | TN         | VL         | -1.24            | -0.00067              | PASS    |
|           |           |                      |              |            | VN         | 1.8              | 0.00097               | PASS    |
|           |           |                      |              |            | VH         | -0.62            | -0.00033              | PASS    |
|           |           |                      | MCH          | TN         | VL         | 0.54             | 0.00029               | PASS    |
|           |           |                      |              |            | VN         | -2.42            | -0.00129              | PASS    |
|           |           |                      |              |            | VH         | 1.09             | 0.00058               | PASS    |
|           |           |                      | HCH          | TN         | VL         | -1.34            | -0.0007               | PASS    |
|           |           |                      |              |            | VN         | -0.01            | -0.00001              | PASS    |
|           |           |                      |              |            | VH         | 0.29             | 0.00015               | PASS    |
|           |           | 15                   | LCH          | TN         | VL         | -1.36            | -0.00073              | PASS    |
|           |           |                      |              |            | VN         | -0.53            | -0.00029              | PASS    |
|           |           |                      |              |            | VH         | -0.56            | -0.0003               | PASS    |
|           |           |                      | MCH          | TN         | VL         | -1.54            | -0.00082              | PASS    |
|           |           |                      |              |            | VN         | -1.77            | -0.00094              | PASS    |
|           |           |                      |              |            | VH         | 0.89             | 0.00047               | PASS    |
|           |           |                      | HCH          | TN         | VL         | 1.1              | 0.00058               | PASS    |
|           |           |                      |              |            | VN         | 1.46             | 0.00077               | PASS    |
|           |           |                      |              |            | VH         | 0.19             | 0.0001                | PASS    |
|           |           | 20                   | LCH          | TN         | VL         | -0.64            | -0.00034              | PASS    |
|           |           |                      |              |            | VN         | 0.21             | 0.00011               | PASS    |
|           |           |                      |              |            | VH         | -2.65            | -0.00142              | PASS    |
|           |           |                      | MCH          | TN         | VL         | -1.46            | -0.00078              | PASS    |
|           |           |                      |              |            | VN         | 0.06             | 0.00003               | PASS    |
|           |           |                      |              |            | VH         | 1.7              | 0.0009                | PASS    |

|       |         |    |     |    |    |       |          |      |
|-------|---------|----|-----|----|----|-------|----------|------|
|       | LTE/TM2 | 5  | HCH | TN | VL | -2.19 | -0.00115 | PASS |
|       |         |    |     |    | VN | 1.16  | 0.00061  | PASS |
|       |         |    |     |    | VH | -0.72 | -0.00038 | PASS |
|       |         | 10 | LCH | TN | VL | 0.47  | 0.00025  | PASS |
|       |         |    |     |    | VN | 1.19  | 0.00064  | PASS |
|       |         |    |     |    | VH | -0.56 | -0.0003  | PASS |
|       |         |    | MCH | TN | VL | 0.1   | 0.00005  | PASS |
|       |         |    |     |    | VN | 1.1   | 0.00059  | PASS |
|       |         |    |     |    | VH | 2.45  | 0.0013   | PASS |
|       |         |    | HCH | TN | VL | -1.46 | -0.00077 | PASS |
|       |         |    |     |    | VN | -2.35 | -0.00123 | PASS |
|       |         |    |     |    | VH | -2.17 | -0.00114 | PASS |
|       |         | 15 | LCH | TN | VL | 2.17  | 0.00117  | PASS |
|       |         |    |     |    | VN | -1.65 | -0.00089 | PASS |
|       |         |    |     |    | VH | -2    | -0.00108 | PASS |
|       |         |    | MCH | TN | VL | 0.21  | 0.00011  | PASS |
|       |         |    |     |    | VN | -1.9  | -0.00101 | PASS |
|       |         |    |     |    | VH | 2.1   | 0.00112  | PASS |
|       |         |    | HCH | TN | VL | -0.84 | -0.00044 | PASS |
|       |         |    |     |    | VN | -0.43 | -0.00023 | PASS |
|       |         |    |     |    | VH | 1.87  | 0.00098  | PASS |
|       |         | 20 | LCH | TN | VL | 2.16  | 0.00116  | PASS |
|       |         |    |     |    | VN | 0.34  | 0.00018  | PASS |
|       |         |    |     |    | VH | -2.23 | -0.0012  | PASS |
|       |         |    | MCH | TN | VL | -1.32 | -0.0007  | PASS |
|       |         |    |     |    | VN | -0.13 | -0.00007 | PASS |
|       |         |    |     |    | VH | 0.03  | 0.00002  | PASS |
|       |         |    | HCH | TN | VL | -0.31 | -0.00016 | PASS |
|       |         |    |     |    | VN | 0.46  | 0.00024  | PASS |
|       |         |    |     |    | VH | 0.03  | 0.00002  | PASS |
| BAND4 | LTE/TM1 | 5  | LCH | TN | VL | 1.63  | 0.00088  | PASS |
|       |         |    |     |    | VN | 1.5   | 0.00081  | PASS |
|       |         |    |     |    | VH | 1.03  | 0.00055  | PASS |
|       |         |    |     |    | VL | -1.22 | -0.00065 | PASS |
|       |         |    |     |    | VN | -1.12 | -0.0006  | PASS |
|       |         |    |     |    | VH | -1.73 | -0.00092 | PASS |
|       |         |    |     |    | VL | -3.1  | -0.00163 | PASS |
|       |         |    |     |    | VN | -3.06 | -0.00161 | PASS |
|       |         |    |     |    | VH | -5.72 | -0.00301 | PASS |
|       |         |    |     |    | VL | 0.37  | 0.00022  | PASS |
|       |         |    |     |    | VN | -1.03 | -0.0006  | PASS |

|  |  |  |  |  |    |       |          |      |
|--|--|--|--|--|----|-------|----------|------|
|  |  |  |  |  | VH | -0.66 | -0.00039 | PASS |
|  |  |  |  |  | VL | -0.3  | -0.00017 | PASS |
|  |  |  |  |  | VN | -0.31 | -0.00018 | PASS |
|  |  |  |  |  | VH | 1.73  | 0.001    | PASS |
|  |  |  |  |  | VL | -1.85 | -0.00106 | PASS |
|  |  |  |  |  | VN | -1.85 | -0.00106 | PASS |
|  |  |  |  |  | VH | -3.39 | -0.00193 | PASS |
|  |  |  |  |  | VL | -3.18 | -0.00185 | PASS |
|  |  |  |  |  | VN | -2.23 | -0.0013  | PASS |
|  |  |  |  |  | VH | -0.74 | -0.00043 | PASS |
|  |  |  |  |  | VL | 1.23  | 0.00071  | PASS |
|  |  |  |  |  | VN | -3.25 | -0.00188 | PASS |
|  |  |  |  |  | VH | 0.11  | 0.00006  | PASS |
|  |  |  |  |  | VL | -1.37 | -0.00078 | PASS |
|  |  |  |  |  | VN | 1.24  | 0.00071  | PASS |
|  |  |  |  |  | VH | 0.96  | 0.00055  | PASS |
|  |  |  |  |  | VL | 0.97  | 0.00056  | PASS |
|  |  |  |  |  | VN | -2.76 | -0.00161 | PASS |
|  |  |  |  |  | VH | -2.03 | -0.00118 | PASS |
|  |  |  |  |  | VL | -0.89 | -0.00051 | PASS |
|  |  |  |  |  | VN | -2.17 | -0.00125 | PASS |
|  |  |  |  |  | VH | -0.54 | -0.00031 | PASS |
|  |  |  |  |  | VL | 2.98  | 0.00171  | PASS |
|  |  |  |  |  | VN | -1.12 | -0.00064 | PASS |
|  |  |  |  |  | VH | 0.24  | 0.00014  | PASS |
|  |  |  |  |  | VL | -2.86 | -0.00166 | PASS |
|  |  |  |  |  | VN | -0.43 | -0.00025 | PASS |
|  |  |  |  |  | VH | -1.3  | -0.00076 | PASS |
|  |  |  |  |  | VL | -0.31 | -0.00018 | PASS |
|  |  |  |  |  | VN | -0.69 | -0.0004  | PASS |
|  |  |  |  |  | VH | -1.33 | -0.00077 | PASS |
|  |  |  |  |  | VL | -2.39 | -0.00137 | PASS |
|  |  |  |  |  | VN | -2.42 | -0.00139 | PASS |
|  |  |  |  |  | VH | -1.03 | -0.00059 | PASS |
|  |  |  |  |  | VL | -1.96 | -0.00114 | PASS |
|  |  |  |  |  | VN | -1.19 | -0.00069 | PASS |
|  |  |  |  |  | VH | -1.16 | -0.00068 | PASS |
|  |  |  |  |  | VL | 0.4   | 0.00023  | PASS |
|  |  |  |  |  | VN | -4.51 | -0.0026  | PASS |
|  |  |  |  |  | VH | 1.04  | 0.0006   | PASS |
|  |  |  |  |  | VL | -4.05 | -0.00231 | PASS |

|       |         |    |     |    |    |       |          |      |
|-------|---------|----|-----|----|----|-------|----------|------|
|       |         |    |     |    | VN | -1.83 | -0.00104 | PASS |
|       |         |    |     |    | VH | -9.07 | -0.00518 | PASS |
|       |         |    |     |    | VL | -0.13 | -0.00008 | PASS |
|       |         | 10 | LCH | TN | VN | -2.92 | -0.0017  | PASS |
|       |         |    |     |    | VH | -0.5  | -0.00029 | PASS |
|       |         |    |     |    | VL | -0.54 | -0.00031 | PASS |
|       |         |    | MCH | TN | VN | -5.38 | -0.00311 | PASS |
|       |         |    |     |    | VH | 1.03  | 0.00059  | PASS |
|       |         |    |     |    | VL | 2.33  | 0.00133  | PASS |
|       |         |    | HCH | TN | VN | 1.29  | 0.00074  | PASS |
|       |         |    |     |    | VH | -1.66 | -0.00095 | PASS |
|       |         |    |     |    | VL | -1.06 | -0.00062 | PASS |
|       |         | 15 | LCH | TN | VN | -1.22 | -0.00071 | PASS |
|       |         |    |     |    | VH | 2.55  | 0.00148  | PASS |
|       |         |    |     |    | VL | 0.11  | 0.00006  | PASS |
|       |         |    | MCH | TN | VN | -0.84 | -0.00048 | PASS |
|       |         |    |     |    | VH | -2.43 | -0.0014  | PASS |
|       |         |    |     |    | VL | -1.44 | -0.00082 | PASS |
|       |         |    | HCH | TN | VN | 0.44  | 0.00025  | PASS |
|       |         |    |     |    | VH | -0.3  | -0.00017 | PASS |
|       |         |    |     |    | VL | -0.84 | -0.00049 | PASS |
|       |         | 20 | LCH | TN | VN | -0.19 | -0.00011 | PASS |
|       |         |    |     |    | VH | -0.5  | -0.00029 | PASS |
|       |         |    |     |    | VL | -3.43 | -0.00198 | PASS |
|       |         |    | MCH | TN | VN | -1.56 | -0.0009  | PASS |
|       |         |    |     |    | VH | -1.73 | -0.001   | PASS |
|       |         |    |     |    | VL | -2.49 | -0.00143 | PASS |
|       |         |    | HCH | TN | VN | -2.76 | -0.00158 | PASS |
|       |         |    |     |    | VH | -6.68 | -0.00383 | PASS |
|       |         |    |     |    | VL | -1.66 | -0.00201 | PASS |
| BAND5 | LTE/TM1 | 5  | LCH | TN | VN | 3.36  | 0.00407  | PASS |
|       |         |    |     |    | VH | 11.14 | 0.01348  | PASS |
|       |         |    |     |    | VL | 3.45  | 0.00412  | PASS |
|       |         |    | MCH | TN | VN | -2.5  | -0.00299 | PASS |
|       |         |    |     |    | VH | 4.08  | 0.00488  | PASS |
|       |         |    |     |    | VL | -2.16 | -0.00255 | PASS |
|       |         |    | HCH | TN | VN | -1.97 | -0.00233 | PASS |
|       |         |    |     |    | VH | 1.26  | 0.00149  | PASS |
|       |         |    |     |    | VL | -1.62 | -0.00195 | PASS |
|       |         | 10 | LCH | TN | VN | -1.43 | -0.00172 | PASS |
|       |         |    |     |    | VH | 3.79  | 0.00457  | PASS |
|       |         |    |     |    | VL | -1.62 | -0.00195 | PASS |

|  |         |    |     |    |    |        |          |      |
|--|---------|----|-----|----|----|--------|----------|------|
|  | LTE/TM2 |    | MCH | TN | VL | -15.11 | -0.01806 | PASS |
|  |         |    |     |    | VN | 1.92   | 0.0023   | PASS |
|  |         |    |     |    | VH | 7.67   | 0.00917  | PASS |
|  |         |    | HCH | TN | VL | 0.13   | 0.00015  | PASS |
|  |         |    |     |    | VN | 1.79   | 0.00212  | PASS |
|  |         |    |     |    | VH | -0.49  | -0.00058 | PASS |
|  |         | 5  | LCH | TN | VL | -2.46  | -0.00298 | PASS |
|  |         |    |     |    | VN | -2.46  | -0.00298 | PASS |
|  |         |    |     |    | VH | 0.77   | 0.00093  | PASS |
|  |         |    | MCH | TN | VL | 2.06   | 0.00246  | PASS |
|  |         |    |     |    | VN | -6.58  | -0.00787 | PASS |
|  |         |    |     |    | VH | -14.29 | -0.01708 | PASS |
|  |         |    | HCH | TN | VL | -5.18  | -0.00612 | PASS |
|  |         |    |     |    | VN | 10.24  | 0.0121   | PASS |
|  |         |    |     |    | VH | -1.85  | -0.00219 | PASS |
|  |         | 10 | LCH | TN | VL | -4.72  | -0.00569 | PASS |
|  |         |    |     |    | VN | 3.92   | 0.00473  | PASS |
|  |         |    |     |    | VH | 0.01   | 0.00001  | PASS |
|  |         |    | MCH | TN | VL | -12.65 | -0.01512 | PASS |
|  |         |    |     |    | VN | -18.22 | -0.02178 | PASS |
|  |         |    |     |    | VH | -11.47 | -0.01371 | PASS |
|  |         |    | HCH | TN | VL | 0.23   | 0.00027  | PASS |
|  |         |    |     |    | VN | -0.24  | -0.00028 | PASS |
|  |         |    |     |    | VH | -0.56  | -0.00066 | PASS |

### 8.3.2 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 |
|-----------|-----------|----------------------|--------------|------------|------------|------------------|-----------------------|---------|
| BAND2     | LTE/TM1   | 5                    | LCH          | VN         | -30        | -0.49            | -0.00026              | PASS    |
|           |           |                      |              |            | -20        | 1.95             | 0.00105               | PASS    |
|           |           |                      |              |            | -10        | -27.19           | -0.01468              | PASS    |
|           |           |                      |              |            | 0          | 4.92             | 0.00266               | PASS    |
|           |           |                      |              |            | 10         | 1.5              | 0.00081               | PASS    |
|           |           |                      |              |            | 20         | 2.89             | 0.00156               | PASS    |
|           |           |                      |              |            | 30         | 4.33             | 0.00234               | PASS    |
|           |           |                      |              |            | 40         | 2.33             | 0.00126               | PASS    |
|           |           |                      |              |            | 50         | 1.56             | 0.00084               | PASS    |
|           |           |                      | MCH          | VN         | -30        | -2.36            | -0.00126              | PASS    |
|           |           |                      |              |            | -20        | -1.5             | -0.0008               | PASS    |
|           |           |                      |              |            | -10        | -1.3             | -0.00069              | PASS    |
|           |           |                      |              |            | 0          | -22.32           | -0.01187              | PASS    |
|           |           |                      |              |            | 10         | -2.22            | -0.00118              | PASS    |
|           |           |                      |              |            | 20         | -0.21            | -0.00011              | PASS    |
|           |           |                      |              |            | 30         | 0.67             | 0.00036               | PASS    |
|           |           |                      |              |            | 40         | -40.54           | -0.02156              | PASS    |
|           |           |                      |              |            | 50         | -2.98            | -0.00159              | PASS    |
|           |           |                      | HCH          | VN         | -30        | -1.1             | -0.00058              | PASS    |
|           |           |                      |              |            | -20        | 1.7              | 0.00089               | PASS    |
|           |           |                      |              |            | -10        | -0.94            | -0.00049              | PASS    |
|           |           |                      |              |            | 0          | -1.03            | -0.00054              | PASS    |
|           |           |                      |              |            | 10         | -1.14            | -0.0006               | PASS    |
|           |           |                      |              |            | 20         | 0.29             | 0.00015               | PASS    |
|           |           |                      |              |            | 30         | -34.66           | -0.01817              | PASS    |
|           |           |                      |              |            | 40         | -2.72            | -0.00143              | PASS    |
|           |           |                      |              |            | 50         | -0.67            | -0.00035              | PASS    |
|           |           | 10                   | LCH          | VN         | -30        | -1.23            | -0.00066              | PASS    |
|           |           |                      |              |            | -20        | 1.07             | 0.00058               | PASS    |
|           |           |                      |              |            | -10        | -0.76            | -0.00041              | PASS    |
|           |           |                      |              |            | 0          | 0.87             | 0.00047               | PASS    |
|           |           |                      |              |            | 10         | -1.53            | -0.00082              | PASS    |
|           |           |                      |              |            | 20         | -0.77            | -0.00042              | PASS    |

|  |  |    |     |    |     |       |          |      |
|--|--|----|-----|----|-----|-------|----------|------|
|  |  |    |     |    | 30  | -1.76 | -0.00095 | PASS |
|  |  |    |     |    | 40  | -0.4  | -0.00022 | PASS |
|  |  |    |     |    | 50  | -0.82 | -0.00044 | PASS |
|  |  |    | MCH | VN | -30 | -4.72 | -0.00251 | PASS |
|  |  |    |     |    | -20 | 1.47  | 0.00078  | PASS |
|  |  |    |     |    | -10 | 0.43  | 0.00023  | PASS |
|  |  |    |     |    | 0   | -2.07 | -0.0011  | PASS |
|  |  |    |     |    | 10  | -3.82 | -0.00203 | PASS |
|  |  |    |     |    | 20  | -4.12 | -0.00219 | PASS |
|  |  |    |     |    | 30  | -0.94 | -0.0005  | PASS |
|  |  |    |     |    | 40  | -1.34 | -0.00071 | PASS |
|  |  |    |     |    | 50  | -2.16 | -0.00115 | PASS |
|  |  |    | HCH | VN | -30 | -0.96 | -0.0005  | PASS |
|  |  |    |     |    | -20 | 3.03  | 0.00159  | PASS |
|  |  |    |     |    | -10 | -0.37 | -0.00019 | PASS |
|  |  |    |     |    | 0   | 2.42  | 0.00127  | PASS |
|  |  |    |     |    | 10  | 3.66  | 0.00192  | PASS |
|  |  |    |     |    | 20  | -0.66 | -0.00035 | PASS |
|  |  |    |     |    | 30  | -2.56 | -0.00134 | PASS |
|  |  |    |     |    | 40  | 0.43  | 0.00023  | PASS |
|  |  |    |     |    | 50  | -1.27 | -0.00067 | PASS |
|  |  | 15 | LCH | VN | -30 | -2.9  | -0.00156 | PASS |
|  |  |    |     |    | -20 | -1.63 | -0.00088 | PASS |
|  |  |    |     |    | -10 | -1.26 | -0.00068 | PASS |
|  |  |    |     |    | 0   | 0.56  | 0.0003   | PASS |
|  |  |    |     |    | 10  | -2.36 | -0.00127 | PASS |
|  |  |    |     |    | 20  | -0.2  | -0.00011 | PASS |
|  |  |    |     |    | 30  | -0.7  | -0.00038 | PASS |
|  |  |    |     |    | 40  | -2.57 | -0.00138 | PASS |
|  |  |    |     |    | 50  | -1.66 | -0.00089 | PASS |
|  |  |    | MCH | VN | -30 | 0.23  | 0.00012  | PASS |
|  |  |    |     |    | -20 | -1.5  | -0.0008  | PASS |
|  |  |    |     |    | -10 | 0.44  | 0.00023  | PASS |
|  |  |    |     |    | 0   | -1.6  | -0.00085 | PASS |
|  |  |    |     |    | 10  | -0.63 | -0.00034 | PASS |
|  |  |    |     |    | 20  | -1.93 | -0.00103 | PASS |
|  |  |    |     |    | 30  | -0.31 | -0.00016 | PASS |
|  |  |    |     |    | 40  | -0.13 | -0.00007 | PASS |
|  |  |    |     |    | 50  | -1.92 | -0.00102 | PASS |
|  |  |    | HCH | VN | -30 | 0.72  | 0.00038  | PASS |
|  |  |    |     |    | -20 | 1.17  | 0.00061  | PASS |

|  |         |    |     |    |     |       |          |      |
|--|---------|----|-----|----|-----|-------|----------|------|
|  |         |    |     |    | -10 | -2.86 | -0.0015  | PASS |
|  |         |    |     |    | 0   | -0.5  | -0.00026 | PASS |
|  |         |    |     |    | 10  | -1.03 | -0.00054 | PASS |
|  |         |    |     |    | 20  | -5.85 | -0.00307 | PASS |
|  |         |    |     |    | 30  | 1.73  | 0.00091  | PASS |
|  |         |    |     |    | 40  | 0.59  | 0.00031  | PASS |
|  |         |    |     |    | 50  | -2.39 | -0.00126 | PASS |
|  |         | 20 | LCH | VN | -30 | -3.89 | -0.00209 | PASS |
|  |         |    |     |    | -20 | -1.43 | -0.00077 | PASS |
|  |         |    |     |    | -10 | 0.44  | 0.00024  | PASS |
|  |         |    |     |    | 0   | 0.94  | 0.00051  | PASS |
|  |         |    |     |    | 10  | -2.65 | -0.00142 | PASS |
|  |         |    |     |    | 20  | 0.59  | 0.00032  | PASS |
|  |         |    |     |    | 30  | -6.98 | -0.00375 | PASS |
|  |         |    |     |    | 40  | -6.65 | -0.00358 | PASS |
|  |         |    |     |    | 50  | -0.66 | -0.00035 | PASS |
|  |         |    | MCH | VN | -30 | -3.29 | -0.00175 | PASS |
|  |         |    |     |    | -20 | -1.27 | -0.00068 | PASS |
|  |         |    |     |    | -10 | -1.54 | -0.00082 | PASS |
|  |         |    |     |    | 0   | -1.32 | -0.0007  | PASS |
|  |         |    |     |    | 10  | -3.02 | -0.00161 | PASS |
|  |         |    |     |    | 20  | -2.79 | -0.00148 | PASS |
|  |         |    |     |    | 30  | -1.87 | -0.00099 | PASS |
|  |         |    |     |    | 40  | 1.36  | 0.00072  | PASS |
|  |         |    |     |    | 50  | -0.41 | -0.00022 | PASS |
|  |         |    | HCH | VN | -30 | -0.72 | -0.00038 | PASS |
|  |         |    |     |    | -20 | -1.37 | -0.00072 | PASS |
|  |         |    |     |    | -10 | -2.45 | -0.00129 | PASS |
|  |         |    |     |    | 0   | -3.82 | -0.00201 | PASS |
|  |         |    |     |    | 10  | -2.83 | -0.00149 | PASS |
|  |         |    |     |    | 20  | -2.45 | -0.00129 | PASS |
|  |         |    |     |    | 30  | -1.97 | -0.00104 | PASS |
|  |         |    |     |    | 40  | -3.92 | -0.00206 | PASS |
|  |         |    |     |    | 50  | -5.52 | -0.00291 | PASS |
|  | LTE/TM2 | 5  | LCH | VN | -30 | 2.02  | 0.00109  | PASS |
|  |         |    |     |    | -20 | -1.09 | -0.00059 | PASS |
|  |         |    |     |    | -10 | 2.03  | 0.0011   | PASS |
|  |         |    |     |    | 0   | -2.43 | -0.00131 | PASS |
|  |         |    |     |    | 10  | -3.86 | -0.00208 | PASS |
|  |         |    |     |    | 20  | -0.11 | -0.00006 | PASS |
|  |         |    |     |    | 30  | 0.79  | 0.00043  | PASS |

|  |  |    |     |    |     |        |          |      |
|--|--|----|-----|----|-----|--------|----------|------|
|  |  |    |     |    | 40  | -0.56  | -0.0003  | PASS |
|  |  |    |     |    | 50  | 0.9    | 0.00049  | PASS |
|  |  |    | MCH | VN | -30 | -30.68 | -0.01632 | PASS |
|  |  |    |     |    | -20 | -2.42  | -0.00129 | PASS |
|  |  |    |     |    | -10 | -0.11  | -0.00006 | PASS |
|  |  |    |     |    | 0   | 1.79   | 0.00095  | PASS |
|  |  |    |     |    | 10  | -3.82  | -0.00203 | PASS |
|  |  |    |     |    | 20  | 0.5    | 0.00027  | PASS |
|  |  |    |     |    | 30  | -0.9   | -0.00048 | PASS |
|  |  |    |     |    | 40  | -0.94  | -0.0005  | PASS |
|  |  |    |     |    | 50  | -2.3   | -0.00122 | PASS |
|  |  |    | HCH | VN | -30 | -2.1   | -0.0011  | PASS |
|  |  |    |     |    | -20 | -14.36 | -0.00753 | PASS |
|  |  |    |     |    | -10 | -1.62  | -0.00085 | PASS |
|  |  |    |     |    | 0   | -0.97  | -0.00051 | PASS |
|  |  |    |     |    | 10  | -0.3   | -0.00016 | PASS |
|  |  |    |     |    | 20  | -3.13  | -0.00164 | PASS |
|  |  |    |     |    | 30  | -2.19  | -0.00115 | PASS |
|  |  |    |     |    | 40  | -2.42  | -0.00127 | PASS |
|  |  |    |     |    | 50  | -2.8   | -0.00147 | PASS |
|  |  | 10 | LCH | VN | -30 | -2.19  | -0.00118 | PASS |
|  |  |    |     |    | -20 | -4.49  | -0.00242 | PASS |
|  |  |    |     |    | -10 | 0.66   | 0.00036  | PASS |
|  |  |    |     |    | 0   | 0.4    | 0.00022  | PASS |
|  |  |    |     |    | 10  | 1.07   | 0.00058  | PASS |
|  |  |    |     |    | 20  | -2.69  | -0.00145 | PASS |
|  |  |    |     |    | 30  | -1.09  | -0.00059 | PASS |
|  |  |    |     |    | 40  | 0.23   | 0.00012  | PASS |
|  |  |    |     |    | 50  | 1.73   | 0.00093  | PASS |
|  |  |    | MCH | VN | -30 | -2.03  | -0.00108 | PASS |
|  |  |    |     |    | -20 | -0.47  | -0.00025 | PASS |
|  |  |    |     |    | -10 | -2.07  | -0.0011  | PASS |
|  |  |    |     |    | 0   | 0.17   | 0.00009  | PASS |
|  |  |    |     |    | 10  | 1.29   | 0.00069  | PASS |
|  |  |    |     |    | 20  | -2.13  | -0.00113 | PASS |
|  |  |    |     |    | 30  | -2.03  | -0.00108 | PASS |
|  |  |    |     |    | 40  | -1.46  | -0.00078 | PASS |
|  |  |    |     |    | 50  | -1.67  | -0.00089 | PASS |
|  |  |    | HCH | VN | -30 | -2.78  | -0.00146 | PASS |
|  |  |    |     |    | -20 | -1.06  | -0.00056 | PASS |
|  |  |    |     |    | -10 | -2     | -0.00105 | PASS |

|  |  |    |     |    |     |        |          |      |
|--|--|----|-----|----|-----|--------|----------|------|
|  |  |    |     |    | 0   | -0.4   | -0.00021 | PASS |
|  |  |    |     |    | 10  | 1.63   | 0.00086  | PASS |
|  |  |    |     |    | 20  | -1.9   | -0.001   | PASS |
|  |  |    |     |    | 30  | -0.43  | -0.00023 | PASS |
|  |  |    |     |    | 40  | 4.36   | 0.00229  | PASS |
|  |  |    |     |    | 50  | 1.52   | 0.0008   | PASS |
|  |  | 15 | LCH | VN | -30 | 1.75   | 0.00094  | PASS |
|  |  |    |     |    | -20 | -2.79  | -0.0015  | PASS |
|  |  |    |     |    | -10 | -1.89  | -0.00102 | PASS |
|  |  |    |     |    | 0   | 2.09   | 0.00113  | PASS |
|  |  |    |     |    | 10  | -1.34  | -0.00072 | PASS |
|  |  |    |     |    | 20  | -1.24  | -0.00067 | PASS |
|  |  |    |     |    | 30  | -3.4   | -0.00183 | PASS |
|  |  |    |     |    | 40  | -1.7   | -0.00092 | PASS |
|  |  |    |     |    | 50  | -1.39  | -0.00075 | PASS |
|  |  |    | MCH | VN | -30 | -0.77  | -0.00041 | PASS |
|  |  |    |     |    | -20 | -0.97  | -0.00052 | PASS |
|  |  |    |     |    | -10 | 0.44   | 0.00023  | PASS |
|  |  |    |     |    | 0   | 32.13  | 0.01709  | PASS |
|  |  |    |     |    | 10  | 11.92  | 0.00634  | PASS |
|  |  |    |     |    | 20  | -42.14 | -0.02241 | PASS |
|  |  |    |     |    | 30  | -3.46  | -0.00184 | PASS |
|  |  |    |     |    | 40  | -3.66  | -0.00195 | PASS |
|  |  |    |     |    | 50  | -1     | -0.00053 | PASS |
|  |  |    | HCH | VN | -30 | -1.77  | -0.00093 | PASS |
|  |  |    |     |    | -20 | -1.73  | -0.00091 | PASS |
|  |  |    |     |    | -10 | -0.11  | -0.00006 | PASS |
|  |  |    |     |    | 0   | -0.96  | -0.0005  | PASS |
|  |  |    |     |    | 10  | -0.56  | -0.00029 | PASS |
|  |  |    |     |    | 20  | -1.32  | -0.00069 | PASS |
|  |  |    |     |    | 30  | -2.19  | -0.00115 | PASS |
|  |  |    |     |    | 40  | -1.97  | -0.00104 | PASS |
|  |  |    |     |    | 50  | -0.83  | -0.00044 | PASS |
|  |  | 20 | LCH | VN | -30 | -37.57 | -0.0202  | PASS |
|  |  |    |     |    | -20 | 27.49  | 0.01478  | PASS |
|  |  |    |     |    | -10 | -80.28 | -0.04316 | PASS |
|  |  |    |     |    | 0   | -36.08 | -0.0194  | PASS |
|  |  |    |     |    | 10  | 10.06  | 0.00541  | PASS |
|  |  |    |     |    | 20  | 12.83  | 0.0069   | PASS |
|  |  |    |     |    | 30  | -7.51  | -0.00404 | PASS |
|  |  |    |     |    | 40  | -12.16 | -0.00654 | PASS |

|       |         |   |     |    |     |        |          |      |
|-------|---------|---|-----|----|-----|--------|----------|------|
|       |         |   | MCH | VN | 50  | -6.67  | -0.00359 | PASS |
|       |         |   |     |    | -30 | 0.47   | 0.00025  | PASS |
|       |         |   |     |    | -20 | -2.45  | -0.0013  | PASS |
|       |         |   |     |    | -10 | -0.56  | -0.0003  | PASS |
|       |         |   |     |    | 0   | -2.13  | -0.00113 | PASS |
|       |         |   |     |    | 10  | -0.93  | -0.00049 | PASS |
|       |         |   |     |    | 20  | -3.98  | -0.00212 | PASS |
|       |         |   |     |    | 30  | -0.99  | -0.00053 | PASS |
|       |         |   |     |    | 40  | -2.66  | -0.00141 | PASS |
|       |         |   |     |    | 50  | -3.38  | -0.0018  | PASS |
|       |         |   | HCH | VN | -30 | -2.68  | -0.00141 | PASS |
|       |         |   |     |    | -20 | -0.37  | -0.00019 | PASS |
|       |         |   |     |    | -10 | -2.5   | -0.00132 | PASS |
|       |         |   |     |    | 0   | -1.32  | -0.00069 | PASS |
|       |         |   |     |    | 10  | 0.33   | 0.00017  | PASS |
|       |         |   |     |    | 20  | -3.03  | -0.00159 | PASS |
|       |         |   |     |    | 30  | -5.19  | -0.00273 | PASS |
|       |         |   |     |    | 40  | -2.82  | -0.00148 | PASS |
|       |         |   |     |    | 50  | -1.07  | -0.00056 | PASS |
| BAND4 | LTE/TM1 | 5 | LCH | VN | -30 | 1.52   | 0.00089  | PASS |
|       |         |   |     |    | -20 | 1.76   | 0.00103  | PASS |
|       |         |   |     |    | -10 | -15.21 | -0.00888 | PASS |
|       |         |   |     |    | 0   | 2.22   | 0.0013   | PASS |
|       |         |   |     |    | 10  | 0.94   | 0.00055  | PASS |
|       |         |   |     |    | 20  | -0.93  | -0.00054 | PASS |
|       |         |   |     |    | 30  | 0.51   | 0.0003   | PASS |
|       |         |   |     |    | 40  | -2.15  | -0.00126 | PASS |
|       |         |   |     |    | 50  | 0.76   | 0.00044  | PASS |
|       |         |   | MCH | VN | -30 | 0.23   | 0.00013  | PASS |
|       |         |   |     |    | -20 | -5.97  | -0.00345 | PASS |
|       |         |   |     |    | -10 | -0.19  | -0.00011 | PASS |
|       |         |   |     |    | 0   | 0.7    | 0.0004   | PASS |
|       |         |   |     |    | 10  | -3.33  | -0.00192 | PASS |
|       |         |   |     |    | 20  | -2.93  | -0.00169 | PASS |
|       |         |   |     |    | 30  | -0.46  | -0.00027 | PASS |
|       |         |   |     |    | 40  | 2.22   | 0.00128  | PASS |
|       |         |   |     |    | 50  | 1.69   | 0.00098  | PASS |
|       |         |   | HCH | VN | -30 | -12.33 | -0.00704 | PASS |
|       |         |   |     |    | -20 | 2.69   | 0.00153  | PASS |
|       |         |   |     |    | -10 | -0.82  | -0.00047 | PASS |
|       |         |   |     |    | 0   | -3.36  | -0.00192 | PASS |

|  |  |    |     |    |     |        |          |      |
|--|--|----|-----|----|-----|--------|----------|------|
|  |  |    |     |    | 10  | -11.84 | -0.00676 | PASS |
|  |  |    |     |    | 20  | 0.2    | 0.00011  | PASS |
|  |  |    |     |    | 30  | 0.67   | 0.00038  | PASS |
|  |  |    |     |    | 40  | -2.09  | -0.00119 | PASS |
|  |  |    |     |    | 50  | -0.57  | -0.00033 | PASS |
|  |  | 10 | LCH | VN | -30 | -2.76  | -0.00161 | PASS |
|  |  |    |     |    | -20 | -1.67  | -0.00097 | PASS |
|  |  |    |     |    | -10 | -4.39  | -0.00256 | PASS |
|  |  |    |     |    | 0   | 1.23   | 0.00072  | PASS |
|  |  |    |     |    | 10  | -1.43  | -0.00083 | PASS |
|  |  |    |     |    | 20  | -0.82  | -0.00048 | PASS |
|  |  |    |     |    | 30  | -1.89  | -0.0011  | PASS |
|  |  |    |     |    | 40  | 0.04   | 0.00002  | PASS |
|  |  |    |     |    | 50  | -1.72  | -0.001   | PASS |
|  |  |    | MCH | VN | -30 | 2.3    | 0.00133  | PASS |
|  |  |    |     |    | -20 | 6.57   | 0.00379  | PASS |
|  |  |    |     |    | -10 | 1.72   | 0.00099  | PASS |
|  |  |    |     |    | 0   | 0.11   | 0.00006  | PASS |
|  |  |    |     |    | 10  | -4.72  | -0.00272 | PASS |
|  |  |    |     |    | 20  | -0.79  | -0.00046 | PASS |
|  |  |    |     |    | 30  | -7.87  | -0.00454 | PASS |
|  |  |    |     |    | 40  | 1.02   | 0.00059  | PASS |
|  |  |    |     |    | 50  | 0.4    | 0.00023  | PASS |
|  |  |    | HCH | VN | -30 | 0.76   | 0.00043  | PASS |
|  |  |    |     |    | -20 | -0.06  | -0.00003 | PASS |
|  |  |    |     |    | -10 | -0.53  | -0.0003  | PASS |
|  |  |    |     |    | 0   | -2.22  | -0.00127 | PASS |
|  |  |    |     |    | 10  | -0.99  | -0.00057 | PASS |
|  |  |    |     |    | 20  | -4.35  | -0.00249 | PASS |
|  |  |    |     |    | 30  | 0.51   | 0.00029  | PASS |
|  |  |    |     |    | 40  | -4.82  | -0.00275 | PASS |
|  |  |    |     |    | 50  | 0.67   | 0.00038  | PASS |
|  |  | 15 | LCH | VN | -30 | -1.69  | -0.00098 | PASS |
|  |  |    |     |    | -20 | -0.34  | -0.0002  | PASS |
|  |  |    |     |    | -10 | -1.4   | -0.00082 | PASS |
|  |  |    |     |    | 0   | -0.87  | -0.00051 | PASS |
|  |  |    |     |    | 10  | -0.43  | -0.00025 | PASS |
|  |  |    |     |    | 20  | -0.92  | -0.00054 | PASS |
|  |  |    |     |    | 30  | -1.33  | -0.00077 | PASS |
|  |  |    |     |    | 40  | -1.6   | -0.00093 | PASS |
|  |  |    |     |    | 50  | -2.16  | -0.00126 | PASS |

|  |  |    |     |    |     |       |          |      |
|--|--|----|-----|----|-----|-------|----------|------|
|  |  |    | MCH | VN | -30 | -0.11 | -0.00006 | PASS |
|  |  |    |     |    | -20 | 2.9   | 0.00167  | PASS |
|  |  |    |     |    | -10 | -0.97 | -0.00056 | PASS |
|  |  |    |     |    | 0   | -0.49 | -0.00028 | PASS |
|  |  |    |     |    | 10  | -0.62 | -0.00036 | PASS |
|  |  |    |     |    | 20  | -2.1  | -0.00121 | PASS |
|  |  |    |     |    | 30  | -0.09 | -0.00005 | PASS |
|  |  |    |     |    | 40  | -3    | -0.00173 | PASS |
|  |  |    |     |    | 50  | 0.33  | 0.00019  | PASS |
|  |  |    | HCH | VN | -30 | 0.19  | 0.00011  | PASS |
|  |  |    |     |    | -20 | -0.31 | -0.00018 | PASS |
|  |  |    |     |    | -10 | -0.34 | -0.00019 | PASS |
|  |  |    |     |    | 0   | -5.02 | -0.00287 | PASS |
|  |  |    |     |    | 10  | -3.35 | -0.00192 | PASS |
|  |  |    |     |    | 20  | 0.3   | 0.00017  | PASS |
|  |  |    |     |    | 30  | 0.93  | 0.00053  | PASS |
|  |  |    |     |    | 40  | -1.5  | -0.00086 | PASS |
|  |  |    |     |    | 50  | 1.32  | 0.00076  | PASS |
|  |  |    | LCH | VN | -30 | -2.05 | -0.00119 | PASS |
|  |  |    |     |    | -20 | -1.17 | -0.00068 | PASS |
|  |  |    |     |    | -10 | -1.04 | -0.0006  | PASS |
|  |  |    |     |    | 0   | -1.53 | -0.00089 | PASS |
|  |  |    |     |    | 10  | -0.44 | -0.00026 | PASS |
|  |  |    |     |    | 20  | -0.79 | -0.00046 | PASS |
|  |  |    |     |    | 30  | -0.77 | -0.00045 | PASS |
|  |  |    |     |    | 40  | -2    | -0.00116 | PASS |
|  |  |    |     |    | 50  | -2.8  | -0.00163 | PASS |
|  |  | 20 | MCH | VN | -30 | -0.19 | -0.00011 | PASS |
|  |  |    |     |    | -20 | 0.67  | 0.00039  | PASS |
|  |  |    |     |    | -10 | -0.41 | -0.00024 | PASS |
|  |  |    |     |    | 0   | -1.52 | -0.00088 | PASS |
|  |  |    |     |    | 10  | 0.49  | 0.00028  | PASS |
|  |  |    |     |    | 20  | 0.23  | 0.00013  | PASS |
|  |  |    |     |    | 30  | -1.76 | -0.00102 | PASS |
|  |  |    |     |    | 40  | 0.59  | 0.00034  | PASS |
|  |  |    |     |    | 50  | -1.56 | -0.0009  | PASS |
|  |  |    | HCH | VN | -30 | -2.1  | -0.0012  | PASS |
|  |  |    |     |    | -20 | 0.49  | 0.00028  | PASS |
|  |  |    |     |    | -10 | 0.33  | 0.00019  | PASS |
|  |  |    |     |    | 0   | 9.8   | 0.00562  | PASS |
|  |  |    |     |    | 10  | 0.56  | 0.00032  | PASS |

|  |         |    |     |    |     |       |          |      |
|--|---------|----|-----|----|-----|-------|----------|------|
|  | LTE/TM2 |    |     |    | 20  | -1.22 | -0.0007  | PASS |
|  |         |    |     |    | 30  | 1.42  | 0.00081  | PASS |
|  |         |    |     |    | 40  | -3.68 | -0.00211 | PASS |
|  |         |    |     |    | 50  | -1.09 | -0.00062 | PASS |
|  |         |    | LCH | VN | -30 | -0.59 | -0.00034 | PASS |
|  |         |    |     |    | -20 | -0.31 | -0.00018 | PASS |
|  |         |    |     |    | -10 | -5.51 | -0.00322 | PASS |
|  |         |    |     |    | 0   | -1.34 | -0.00078 | PASS |
|  |         |    |     |    | 10  | 1.99  | 0.00116  | PASS |
|  |         |    |     |    | 20  | 0.17  | 0.0001   | PASS |
|  |         |    |     |    | 30  | -1.2  | -0.0007  | PASS |
|  |         |    |     |    | 40  | -2.7  | -0.00158 | PASS |
|  |         |    |     |    | 50  | -1.65 | -0.00096 | PASS |
|  |         |    | MCH | VN | -30 | -1.96 | -0.00113 | PASS |
|  |         |    |     |    | -20 | 0.07  | 0.00004  | PASS |
|  |         |    |     |    | -10 | 0.24  | 0.00014  | PASS |
|  |         |    |     |    | 0   | -0.04 | -0.00002 | PASS |
|  |         |    |     |    | 10  | -0.99 | -0.00057 | PASS |
|  |         |    |     |    | 20  | -3.98 | -0.0023  | PASS |
|  |         |    |     |    | 30  | -2.29 | -0.00132 | PASS |
|  |         |    |     |    | 40  | -1.14 | -0.00066 | PASS |
|  |         |    |     |    | 50  | -0.54 | -0.00031 | PASS |
|  |         |    | HCH | VN | -30 | -1.67 | -0.00095 | PASS |
|  |         |    |     |    | -20 | 1.5   | 0.00086  | PASS |
|  |         |    |     |    | -10 | -10.7 | -0.00611 | PASS |
|  |         |    |     |    | 0   | 0.33  | 0.00019  | PASS |
|  |         |    |     |    | 10  | -0.94 | -0.00054 | PASS |
|  |         |    |     |    | 20  | -3.05 | -0.00174 | PASS |
|  |         |    |     |    | 30  | 2.59  | 0.00148  | PASS |
|  |         |    |     |    | 40  | -2.19 | -0.00125 | PASS |
|  |         |    |     |    | 50  | -1.99 | -0.00114 | PASS |
|  |         | 10 | LCH | VN | -30 | -2.42 | -0.00141 | PASS |
|  |         |    |     |    | -20 | -2.19 | -0.00128 | PASS |
|  |         |    |     |    | -10 | -0.77 | -0.00045 | PASS |
|  |         |    |     |    | 0   | -2.42 | -0.00141 | PASS |
|  |         |    |     |    | 10  | -1.29 | -0.00075 | PASS |
|  |         |    |     |    | 20  | -2.9  | -0.00169 | PASS |
|  |         |    |     |    | 30  | -2.76 | -0.00161 | PASS |
|  |         |    |     |    | 40  | -3.4  | -0.00198 | PASS |
|  |         |    |     |    | 50  | -0.94 | -0.00055 | PASS |
|  |         |    | MCH | VN | -30 | -0.66 | -0.00038 | PASS |

|  |  |    |     |    |     |       |          |       |          |      |
|--|--|----|-----|----|-----|-------|----------|-------|----------|------|
|  |  |    |     |    | -20 | 0.54  | 0.00031  | PASS  |          |      |
|  |  |    |     |    | -10 | -2.47 | -0.00143 | PASS  |          |      |
|  |  |    |     |    | 0   | -1.89 | -0.00109 | PASS  |          |      |
|  |  |    |     |    | 10  | 1.75  | 0.00101  | PASS  |          |      |
|  |  |    |     |    | 20  | 0.13  | 0.00008  | PASS  |          |      |
|  |  |    |     |    | 30  | -2.33 | -0.00134 | PASS  |          |      |
|  |  |    |     |    | 40  | -0.39 | -0.00023 | PASS  |          |      |
|  |  |    |     |    | 50  | -0.13 | -0.00008 | PASS  |          |      |
|  |  |    |     |    | HCH | VN    | -30      | -2.49 | -0.00142 | PASS |
|  |  |    |     |    |     |       | -20      | -3.06 | -0.00175 | PASS |
|  |  |    |     |    |     |       | -10      | 1.16  | 0.00066  | PASS |
|  |  |    |     |    |     |       | 0        | -1.17 | -0.00067 | PASS |
|  |  |    |     |    |     |       | 10       | -0.24 | -0.00014 | PASS |
|  |  |    |     |    |     |       | 20       | -1.16 | -0.00066 | PASS |
|  |  |    |     |    |     |       | 30       | 0.14  | 0.00008  | PASS |
|  |  |    |     |    |     |       | 40       | -0.11 | -0.00006 | PASS |
|  |  |    |     |    | 50  | -0.39 | -0.00022 | PASS  |          |      |
|  |  | 15 | LCH | VN | -30 | 0.17  | 0.0001   | PASS  |          |      |
|  |  |    |     |    | -20 | -3.33 | -0.00194 | PASS  |          |      |
|  |  |    |     |    | -10 | -0.86 | -0.0005  | PASS  |          |      |
|  |  |    |     |    | 0   | -0.09 | -0.00005 | PASS  |          |      |
|  |  |    |     |    | 10  | 0.37  | 0.00022  | PASS  |          |      |
|  |  |    |     |    | 20  | 0.01  | 0.00001  | PASS  |          |      |
|  |  |    |     |    | 30  | -3.5  | -0.00204 | PASS  |          |      |
|  |  |    |     |    | 40  | 0.39  | 0.00023  | PASS  |          |      |
|  |  |    |     |    | 50  | 3.06  | 0.00178  | PASS  |          |      |
|  |  |    | MCH | VN | -30 | -0.27 | -0.00016 | PASS  |          |      |
|  |  |    |     |    | -20 | 1.12  | 0.00065  | PASS  |          |      |
|  |  |    |     |    | -10 | 1.7   | 0.00098  | PASS  |          |      |
|  |  |    |     |    | 0   | 2.32  | 0.00134  | PASS  |          |      |
|  |  |    |     |    | 10  | -2.52 | -0.00145 | PASS  |          |      |
|  |  |    |     |    | 20  | 2.4   | 0.00139  | PASS  |          |      |
|  |  |    |     |    | 30  | 2.26  | 0.0013   | PASS  |          |      |
|  |  |    |     |    | 40  | -1.29 | -0.00074 | PASS  |          |      |
|  |  |    |     |    | 50  | -0.26 | -0.00015 | PASS  |          |      |
|  |  |    | HCH | VN | -30 | -0.73 | -0.00042 | PASS  |          |      |
|  |  |    |     |    | -20 | -5.28 | -0.00302 | PASS  |          |      |
|  |  |    |     |    | -10 | -0.31 | -0.00018 | PASS  |          |      |
|  |  |    |     |    | 0   | -2.55 | -0.00146 | PASS  |          |      |
|  |  |    |     |    | 10  | 0.33  | 0.00019  | PASS  |          |      |
|  |  |    |     |    | 20  | -4.18 | -0.00239 | PASS  |          |      |

|       |         |     |     |     |       |          |          |      |
|-------|---------|-----|-----|-----|-------|----------|----------|------|
|       |         |     |     |     | 30    | 0.49     | 0.00028  | PASS |
|       |         |     |     |     | 40    | -0.23    | -0.00013 | PASS |
|       |         |     |     |     | 50    | -4.16    | -0.00238 | PASS |
|       |         | 20  | LCH | VN  | -30   | -1.93    | -0.00112 | PASS |
|       |         |     |     |     | -20   | -1.13    | -0.00066 | PASS |
|       |         |     |     |     | -10   | -1.67    | -0.00097 | PASS |
|       |         |     |     |     | 0     | -1.02    | -0.00059 | PASS |
|       |         |     |     |     | 10    | 1.8      | 0.00105  | PASS |
|       |         |     |     |     | 20    | -0.63    | -0.00037 | PASS |
|       |         |     |     |     | 30    | 0.09     | 0.00005  | PASS |
|       |         |     |     |     | 40    | 1.39     | 0.00081  | PASS |
|       |         |     |     |     | 50    | -0.73    | -0.00042 | PASS |
|       |         |     | MCH | VN  | -30   | 0.63     | 0.00036  | PASS |
|       |         |     |     |     | -20   | -0.82    | -0.00047 | PASS |
|       |         |     |     |     | -10   | -1.52    | -0.00088 | PASS |
|       |         |     |     |     | 0     | -0.57    | -0.00033 | PASS |
|       |         |     |     |     | 10    | -2.42    | -0.0014  | PASS |
|       |         |     |     |     | 20    | -2.12    | -0.00122 | PASS |
|       |         |     |     |     | 30    | -3.22    | -0.00186 | PASS |
|       |         |     |     |     | 40    | -2.1     | -0.00121 | PASS |
|       |         |     |     |     | 50    | 2.12     | 0.00122  | PASS |
|       |         |     | HCH | VN  | -30   | -4.53    | -0.0026  | PASS |
|       |         |     |     |     | -20   | -0.76    | -0.00044 | PASS |
|       |         |     |     |     | -10   | -4.02    | -0.0023  | PASS |
|       |         |     |     |     | 0     | 0.01     | 0.00001  | PASS |
|       |         |     |     |     | 10    | 0.07     | 0.00004  | PASS |
|       |         |     |     |     | 20    | 0.07     | 0.00004  | PASS |
|       |         |     |     |     | 30    | 0.34     | 0.00019  | PASS |
|       |         |     |     |     | 40    | -2.68    | -0.00154 | PASS |
|       |         |     |     |     | 50    | -3.26    | -0.00187 | PASS |
| BAND5 | LTE/TM1 | 5   | LCH | VN  | -30   | -1.8     | -0.00218 | PASS |
|       |         |     |     |     | -20   | 1.23     | 0.00149  | PASS |
|       |         |     |     |     | -10   | -1.29    | -0.00156 | PASS |
|       |         |     |     |     | 0     | 2.75     | 0.00333  | PASS |
|       |         |     |     |     | 10    | -0.3     | -0.00036 | PASS |
|       |         |     |     |     | 20    | -2       | -0.00242 | PASS |
|       |         |     |     |     | 30    | -3.36    | -0.00407 | PASS |
|       |         |     |     |     | 40    | -1.17    | -0.00142 | PASS |
|       |         |     |     |     | 50    | 2.5      | 0.00302  | PASS |
|       |         | MCH | VN  | -30 | -3.52 | -0.00421 | PASS     |      |
|       |         |     |     | -20 | 2.29  | 0.00274  | PASS     |      |

|  |  |    |     |    |     |        |          |      |
|--|--|----|-----|----|-----|--------|----------|------|
|  |  |    |     |    | -10 | 4.89   | 0.00585  | PASS |
|  |  |    |     |    | 0   | 6.39   | 0.00764  | PASS |
|  |  |    |     |    | 10  | 1.37   | 0.00164  | PASS |
|  |  |    |     |    | 20  | 1.76   | 0.0021   | PASS |
|  |  |    |     |    | 30  | 4.23   | 0.00506  | PASS |
|  |  |    |     |    | 40  | 1.26   | 0.00151  | PASS |
|  |  |    |     |    | 50  | 0.07   | 0.00008  | PASS |
|  |  |    | HCH | VN | -30 | 1.03   | 0.00122  | PASS |
|  |  |    |     |    | -20 | 2.02   | 0.00239  | PASS |
|  |  |    |     |    | -10 | 1.76   | 0.00208  | PASS |
|  |  |    |     |    | 0   | -1.07  | -0.00126 | PASS |
|  |  |    |     |    | 10  | 0.87   | 0.00103  | PASS |
|  |  |    |     |    | 20  | -0.8   | -0.00095 | PASS |
|  |  |    |     |    | 30  | 3.76   | 0.00444  | PASS |
|  |  |    |     |    | 40  | -4.16  | -0.00491 | PASS |
|  |  |    |     |    | 50  | -1.27  | -0.0015  | PASS |
|  |  | 10 | LCH | VN | -30 | -0.74  | -0.00089 | PASS |
|  |  |    |     |    | -20 | 0.49   | 0.00059  | PASS |
|  |  |    |     |    | -10 | 11.39  | 0.01374  | PASS |
|  |  |    |     |    | 0   | -5.61  | -0.00677 | PASS |
|  |  |    |     |    | 10  | 7.47   | 0.00901  | PASS |
|  |  |    |     |    | 20  | -10.27 | -0.01239 | PASS |
|  |  |    |     |    | 30  | 3.72   | 0.00449  | PASS |
|  |  |    |     |    | 40  | 6.12   | 0.00738  | PASS |
|  |  |    |     |    | 50  | 9.23   | 0.01113  | PASS |
|  |  |    | MCH | VN | -30 | -14.62 | -0.01748 | PASS |
|  |  |    |     |    | -20 | -5.25  | -0.00628 | PASS |
|  |  |    |     |    | -10 | -1.42  | -0.0017  | PASS |
|  |  |    |     |    | 0   | -6.51  | -0.00778 | PASS |
|  |  |    |     |    | 10  | -3     | -0.00359 | PASS |
|  |  |    |     |    | 20  | -2.49  | -0.00298 | PASS |
|  |  |    |     |    | 30  | -3.03  | -0.00362 | PASS |
|  |  |    |     |    | 40  | -10.93 | -0.01307 | PASS |
|  |  |    |     |    | 50  | -4.12  | -0.00493 | PASS |
|  |  |    | HCH | VN | -30 | -1.4   | -0.00166 | PASS |
|  |  |    |     |    | -20 | -0.37  | -0.00044 | PASS |
|  |  |    |     |    | -10 | -0.54  | -0.00064 | PASS |
|  |  |    |     |    | 0   | -0.92  | -0.00109 | PASS |
|  |  |    |     |    | 10  | -2.22  | -0.00263 | PASS |
|  |  |    |     |    | 20  | -0.2   | -0.00024 | PASS |
|  |  |    |     |    | 30  | -2.66  | -0.00315 | PASS |

|  |         |    |     |    |     |        |          |      |
|--|---------|----|-----|----|-----|--------|----------|------|
|  | LTE/TM2 | 5  | LCH | VN | 40  | -0.6   | -0.00071 | PASS |
|  |         |    |     |    | 50  | -3.16  | -0.00374 | PASS |
|  |         |    |     |    | -30 | 3.38   | 0.00409  | PASS |
|  |         |    |     |    | -20 | 0.21   | 0.00025  | PASS |
|  |         |    |     |    | -10 | 8.3    | 0.01004  | PASS |
|  |         |    |     |    | 0   | -0.14  | -0.00017 | PASS |
|  |         |    |     |    | 10  | -2.06  | -0.00249 | PASS |
|  |         |    |     |    | 20  | -1.16  | -0.0014  | PASS |
|  |         |    |     |    | 30  | 0.09   | 0.00011  | PASS |
|  |         |    |     |    | 40  | -1.3   | -0.00157 | PASS |
|  |         |    | MCH | VN | 50  | 2.98   | 0.00361  | PASS |
|  |         |    |     |    | -30 | 9.73   | 0.01163  | PASS |
|  |         |    |     |    | -20 | -0.99  | -0.00118 | PASS |
|  |         |    |     |    | -10 | 2.75   | 0.00329  | PASS |
|  |         |    |     |    | 0   | -1.75  | -0.00209 | PASS |
|  |         |    |     |    | 10  | -2.62  | -0.00313 | PASS |
|  |         |    |     |    | 20  | -1.56  | -0.00186 | PASS |
|  |         |    |     |    | 30  | 0.34   | 0.00041  | PASS |
|  |         |    |     |    | 40  | 6.9    | 0.00825  | PASS |
|  |         |    |     |    | 50  | 3.33   | 0.00398  | PASS |
|  |         | 10 | HCH | VN | -30 | -3.93  | -0.00464 | PASS |
|  |         |    |     |    | -20 | -0.72  | -0.00085 | PASS |
|  |         |    |     |    | -10 | 1.17   | 0.00138  | PASS |
|  |         |    |     |    | 0   | -0.74  | -0.00087 | PASS |
|  |         |    |     |    | 10  | 0.34   | 0.0004   | PASS |
|  |         |    |     |    | 20  | 0.56   | 0.00066  | PASS |
|  |         |    |     |    | 30  | 5.19   | 0.00613  | PASS |
|  |         |    |     |    | 40  | -0.01  | -0.00001 | PASS |
|  |         |    |     |    | 50  | 0.77   | 0.00091  | PASS |
|  |         |    | LCH | VN | -30 | -0.47  | -0.00057 | PASS |
|  |         |    |     |    | -20 | 0.57   | 0.00069  | PASS |
|  |         |    |     |    | -10 | 2.93   | 0.00353  | PASS |
|  |         |    |     |    | 0   | 1.37   | 0.00165  | PASS |
|  |         |    |     |    | 10  | -0.29  | -0.00035 | PASS |
|  |         |    |     |    | 20  | -0.26  | -0.00031 | PASS |
|  |         |    |     |    | 30  | 0.83   | 0.001    | PASS |
|  |         |    |     |    | 40  | 2.07   | 0.0025   | PASS |
|  |         |    |     |    | 50  | -0.94  | -0.00113 | PASS |
|  |         |    | MCH | VN | -30 | -15.79 | -0.01888 | PASS |
|  |         |    |     |    | -20 | 1.72   | 0.00206  | PASS |
|  |         |    |     |    | -10 | -8.61  | -0.01029 | PASS |

|  |  |  |     |    |     |       |          |      |
|--|--|--|-----|----|-----|-------|----------|------|
|  |  |  |     |    | 0   | 7.35  | 0.00879  | PASS |
|  |  |  |     |    | 10  | -1.22 | -0.00146 | PASS |
|  |  |  |     |    | 20  | -8.57 | -0.01025 | PASS |
|  |  |  |     |    | 30  | -2.26 | -0.0027  | PASS |
|  |  |  |     |    | 40  | -0.77 | -0.00092 | PASS |
|  |  |  |     |    | 50  | -5.41 | -0.00647 | PASS |
|  |  |  | HCH | VN | -30 | -0.3  | -0.00036 | PASS |
|  |  |  |     |    | -20 | -0.43 | -0.00051 | PASS |
|  |  |  |     |    | -10 | -1.77 | -0.0021  | PASS |
|  |  |  |     |    | 0   | 0.2   | 0.00024  | PASS |
|  |  |  |     |    | 10  | 1.24  | 0.00147  | PASS |
|  |  |  |     |    | 20  | 0.13  | 0.00015  | PASS |
|  |  |  |     |    | 30  | 0.24  | 0.00028  | PASS |
|  |  |  |     |    | 40  | -0.03 | -0.00004 | PASS |
|  |  |  |     |    | 50  | -0.1  | -0.00012 | PASS |

END