







#### 6.1.1.1.2 Test Bandwidth = 10

##### 6.1.1.1.2.1 Test Channel = LCH

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









#### 6.1.1.1.2.2.1 Test RB = RB1#0



















## 6.1.1.1.3 Test Bandwidth = 15

## 6.1.1.1.3.1 Test Channel = LCH

## 6.1.1.1.3.1.1 Test RB = RB1#0











## 6.1.1.1.3.2 Test Channel = MCH

## 6.1.1.1.3.2.1 Test RB = RB1#0

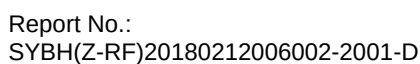








#### 6.1.1.1.3.3.1 Test RB = RB1#0







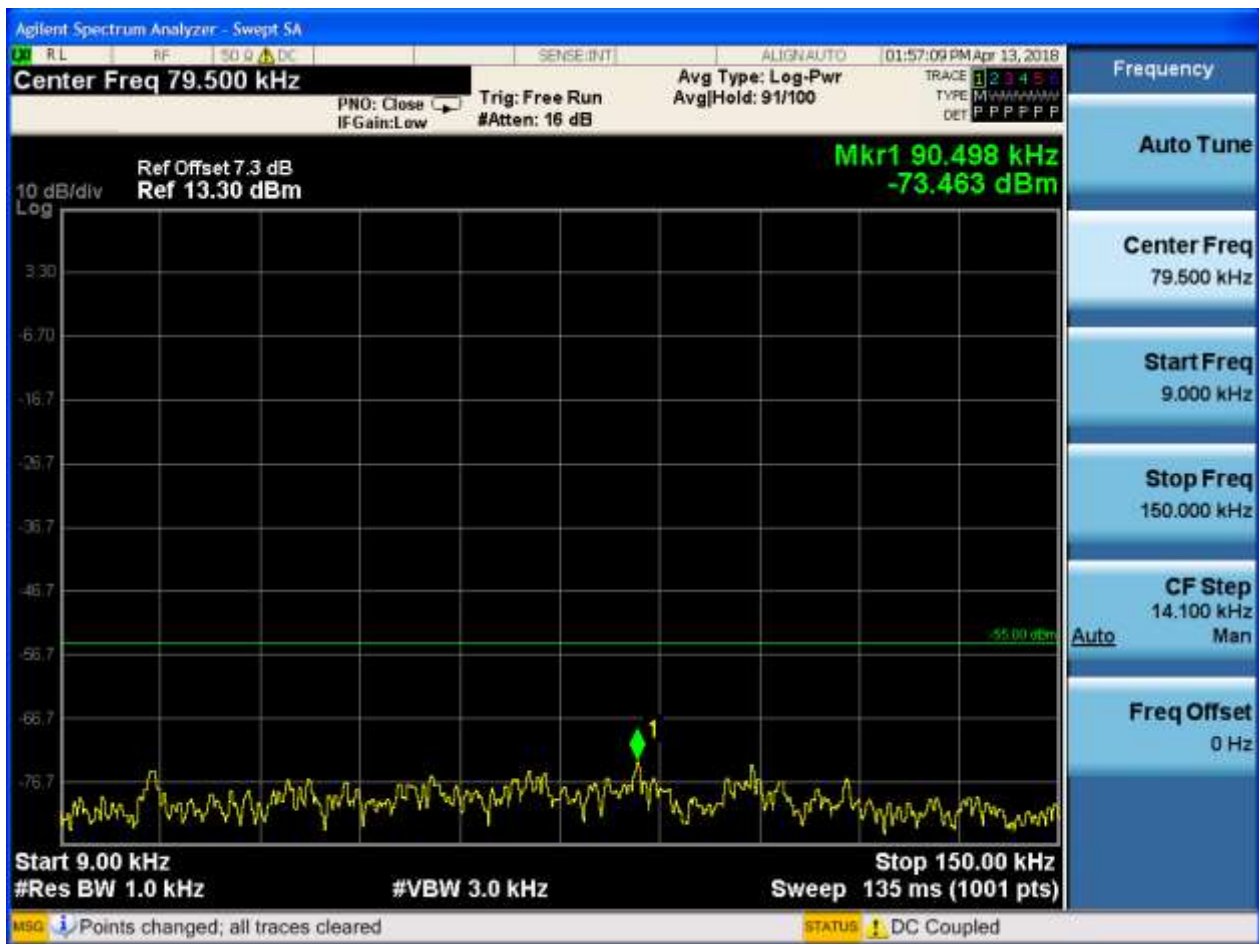




#### 6.1.1.1.4 Test Bandwidth = 20

##### 6.1.1.1.4.1 Test Channel = LCH

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









## 6.1.1.1.4.2 Test Channel = MCH

## 6.1.1.1.4.2.1 Test RB = RB1#0











## 6.1.1.1.4.3 Test Channel = HCH

## 6.1.1.1.4.3.1 Test RB = RB1#0

















## 6.1.1.2.1.2 Test Channel = MCH

## 6.1.1.2.1.2.1 Test RB = RB1#0

















## 6.1.1.2.2 Test Bandwidth = 10

## 6.1.1.2.2.1 Test Channel = LCH

## 6.1.1.2.2.1.1 Test RB = RB1#0









## 6.1.1.2.2.2 Test Channel = MCH

## 6.1.1.2.2.2.1 Test RB = RB1#0





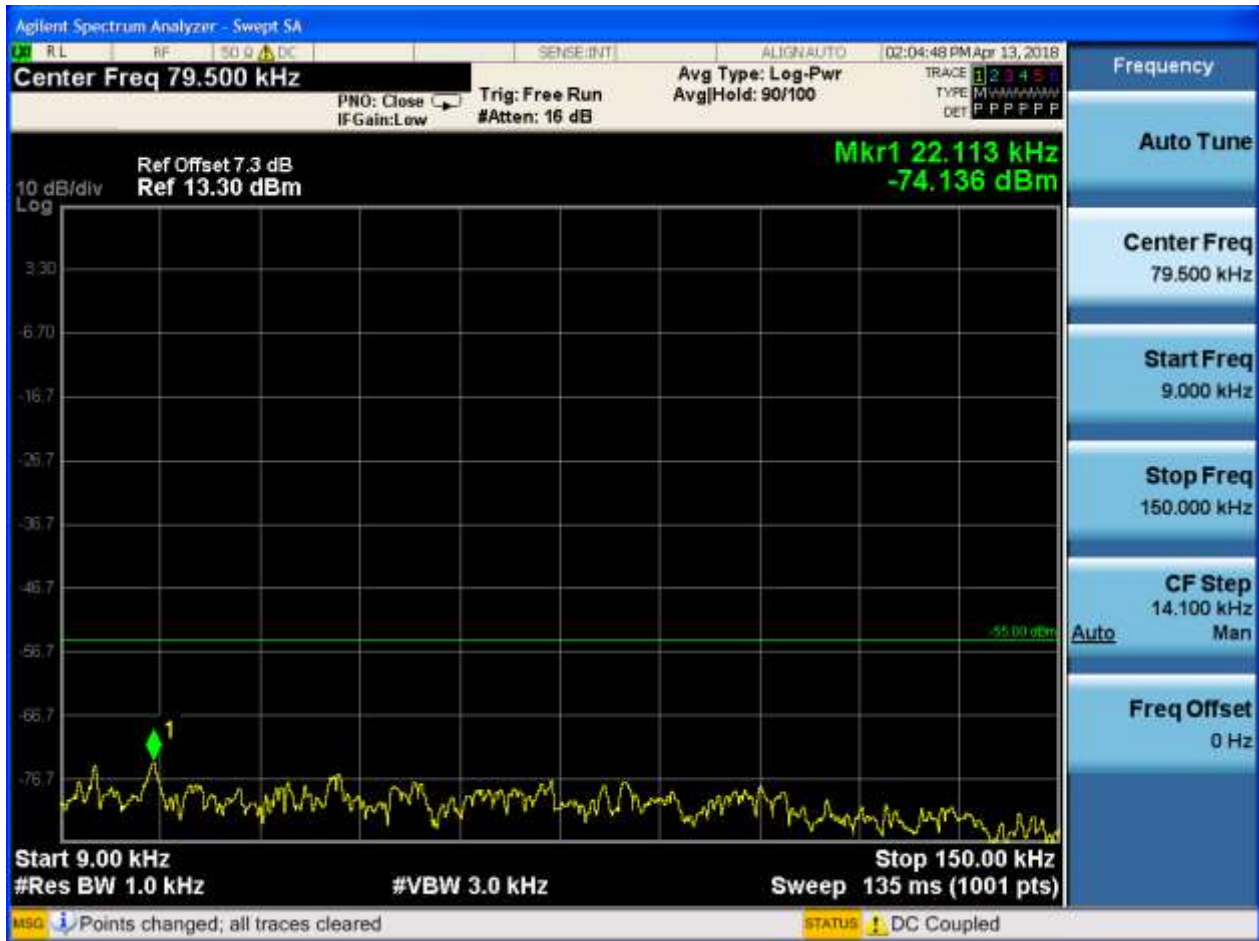






## 6.1.1.2.2.3 Test Channel = HCH

## 6.1.1.2.2.3.1 Test RB = RB1#0





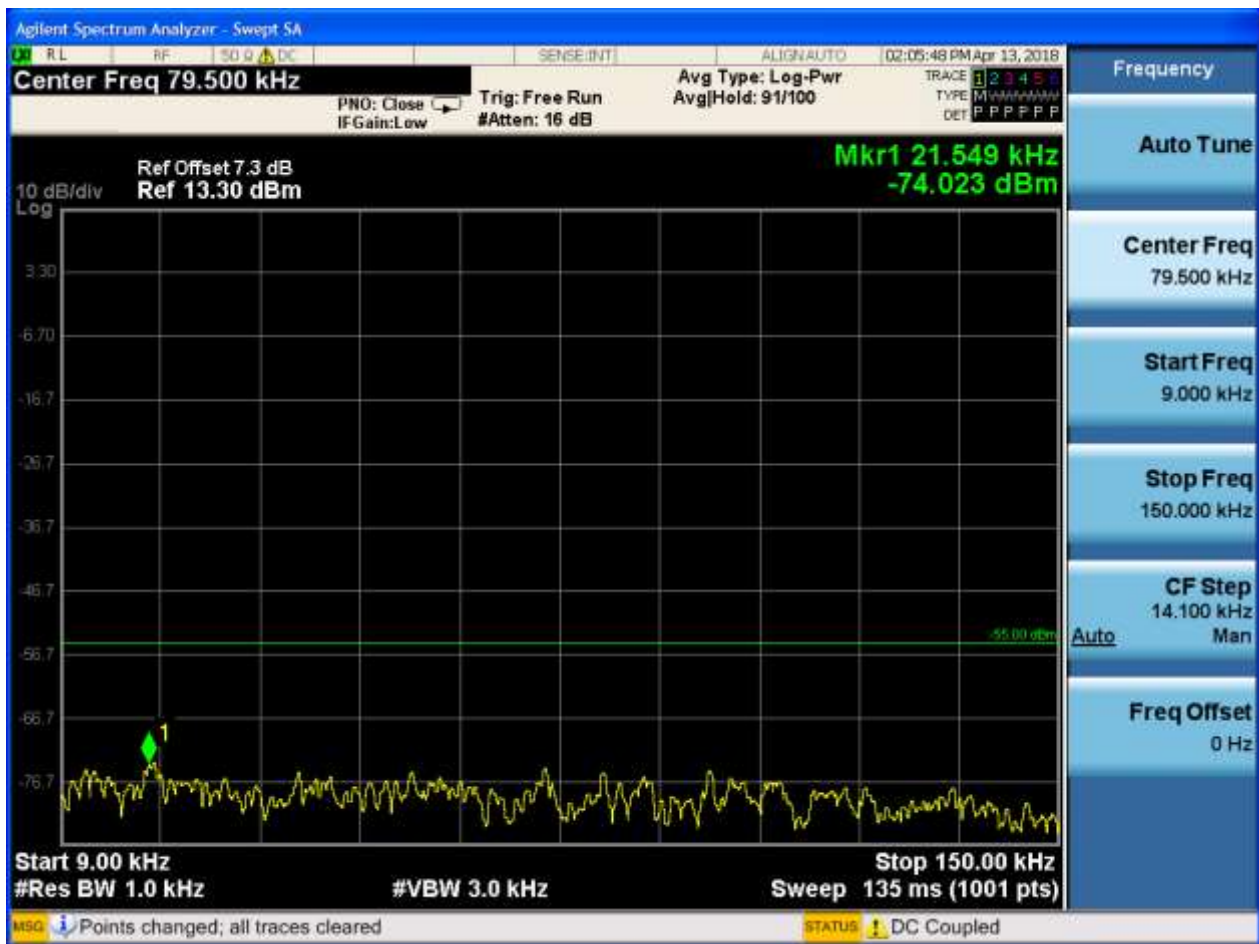




## 6.1.1.2.3 Test Bandwidth = 15

## 6.1.1.2.3.1 Test Channel = LCH

## 6.1.1.2.3.1.1 Test RB = RB1#0

















## 6.1.1.2.3.3 Test Channel = HCH

## 6.1.1.2.3.3.1 Test RB = RB1#0











## 6.1.1.2.4 Test Bandwidth = 20

## 6.1.1.2.4.1 Test Channel = LCH

## 6.1.1.2.4.1.1 Test RB = RB1#0









## 6.1.1.2.4.2 Test Channel = MCH

## 6.1.1.2.4.2.1 Test RB = RB1#0



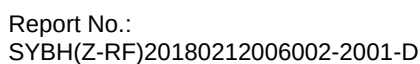








#### 6.1.1.2.4.3.1 Test RB = RB1#0









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

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

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

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

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

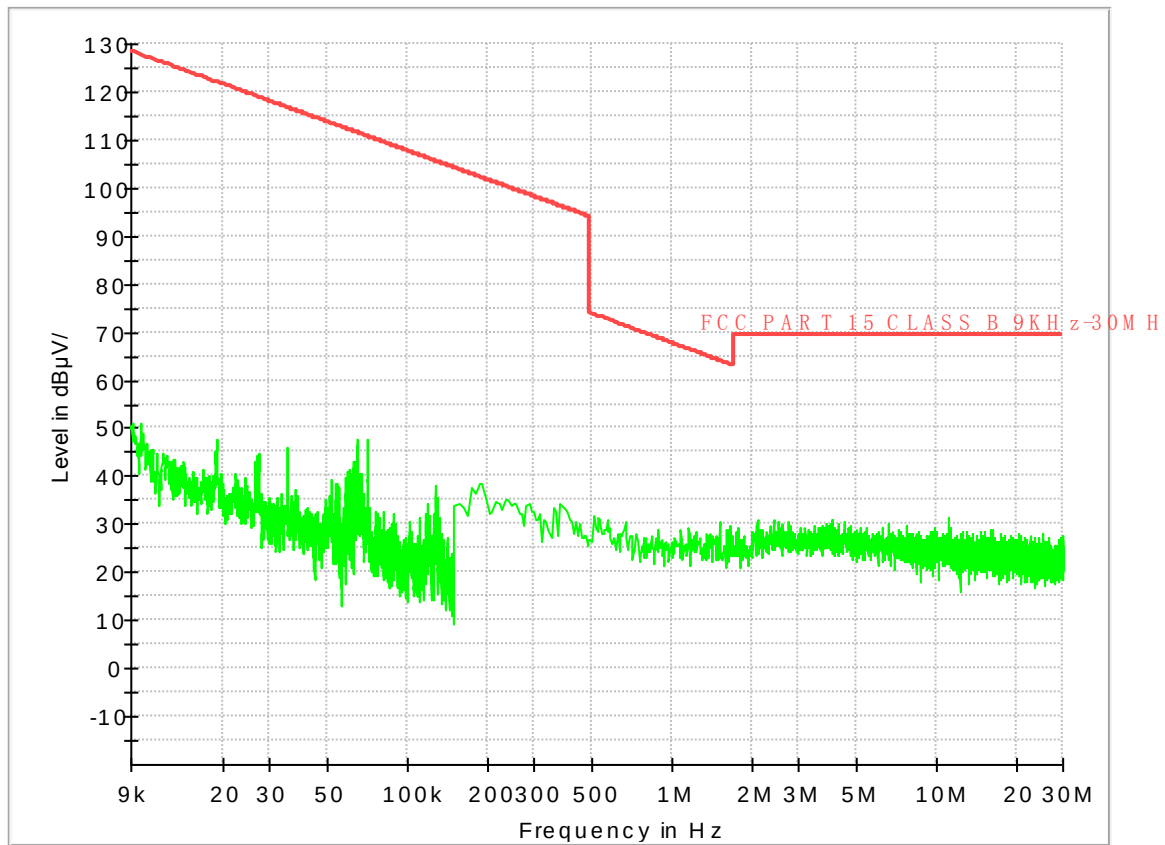
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

### Part I - Test Plots

#### 7.1 For LTE

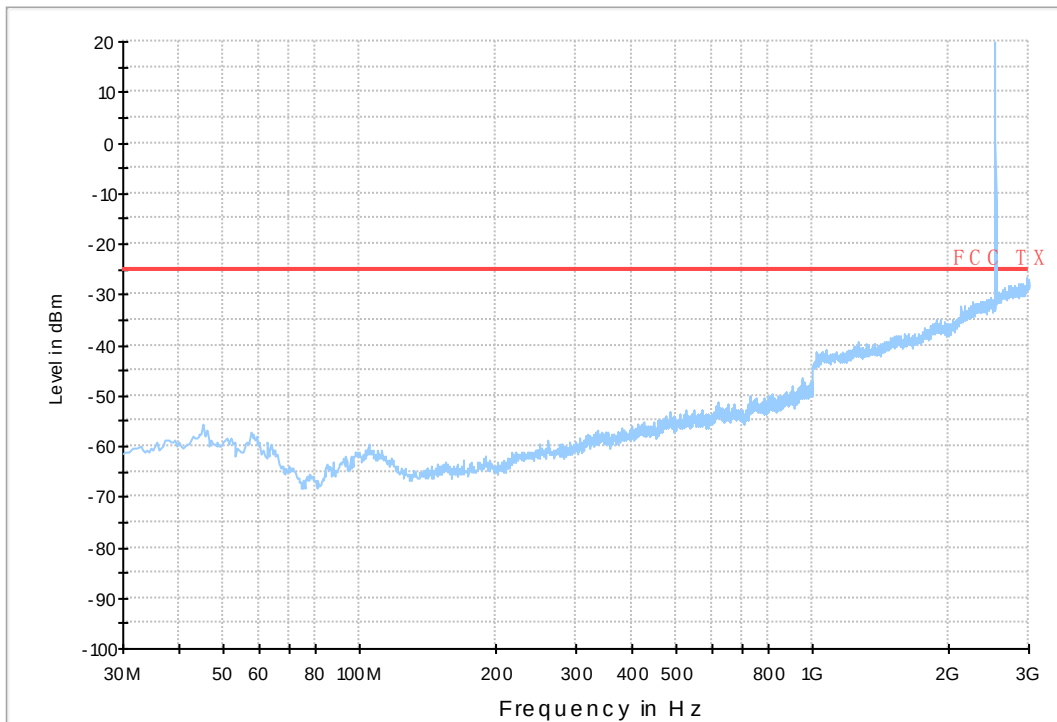
##### 7.1.1 Test Band = BAND7

##### 7.1.1.1 Test Bandwidth = 5

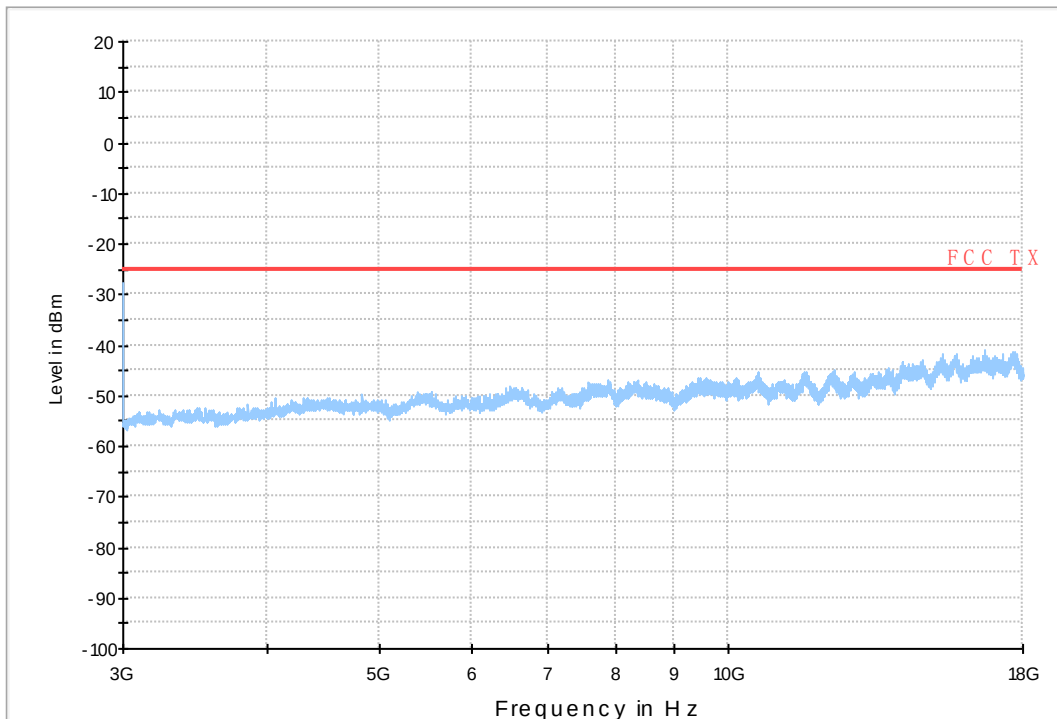




Copy of RSE-TX-DIRECTOR ABOVE 1.5G Limit -25\_L

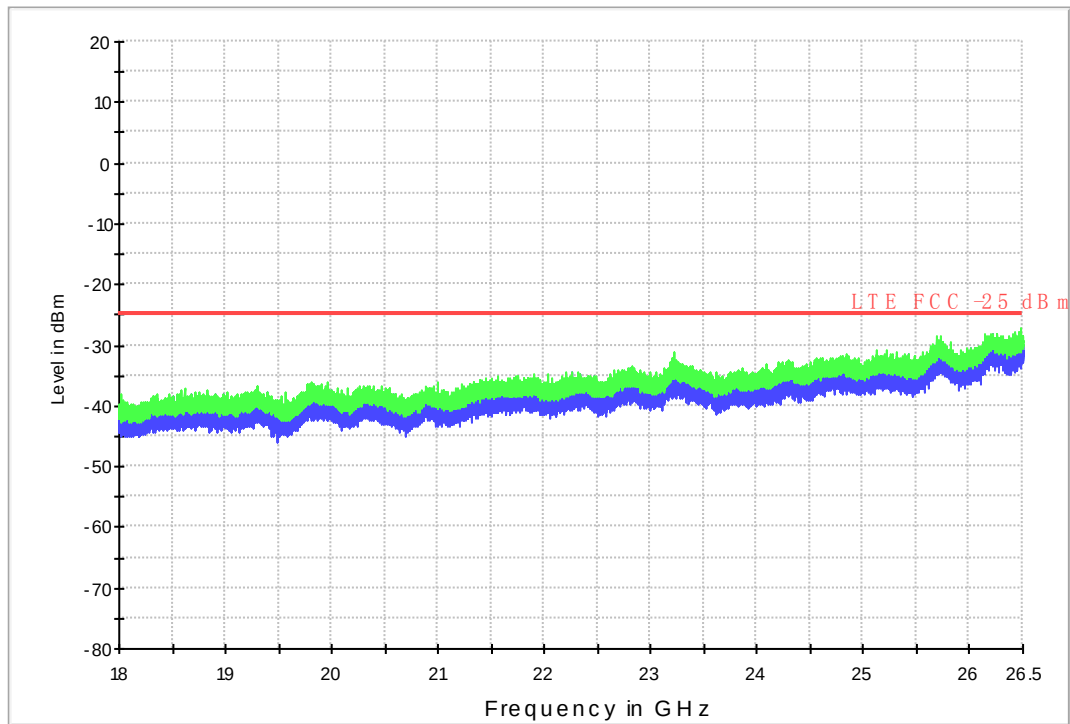


Copy of RSE-TX-DIRECTOR ABOVE 1.5G Limit -25\_H

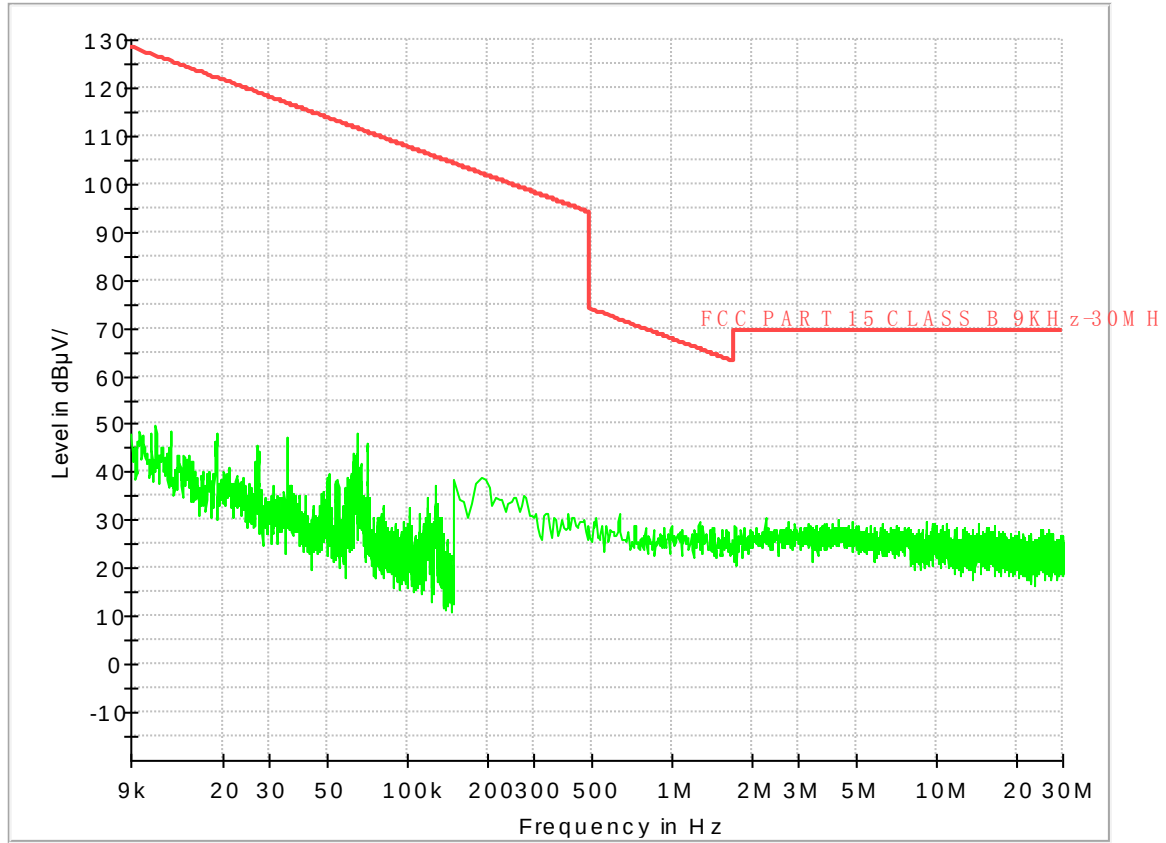




## 18G~26.5G RSE-TX-DIRECTOR ABOVE 1.5G PK

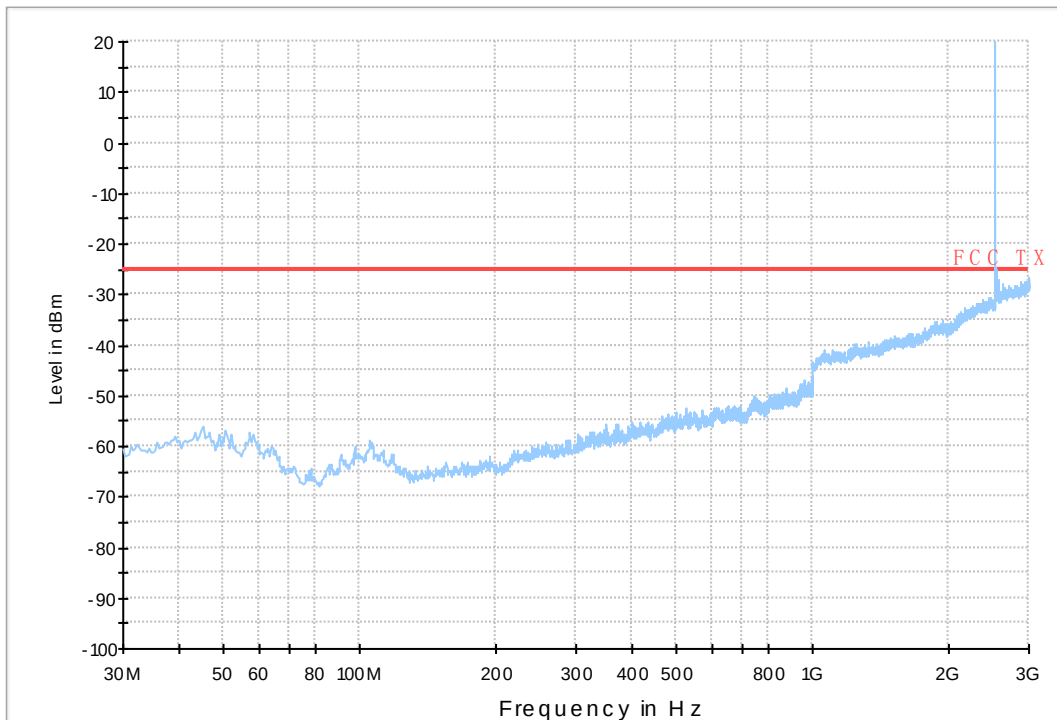


## 7.1.1.2 Test Bandwidth = 20

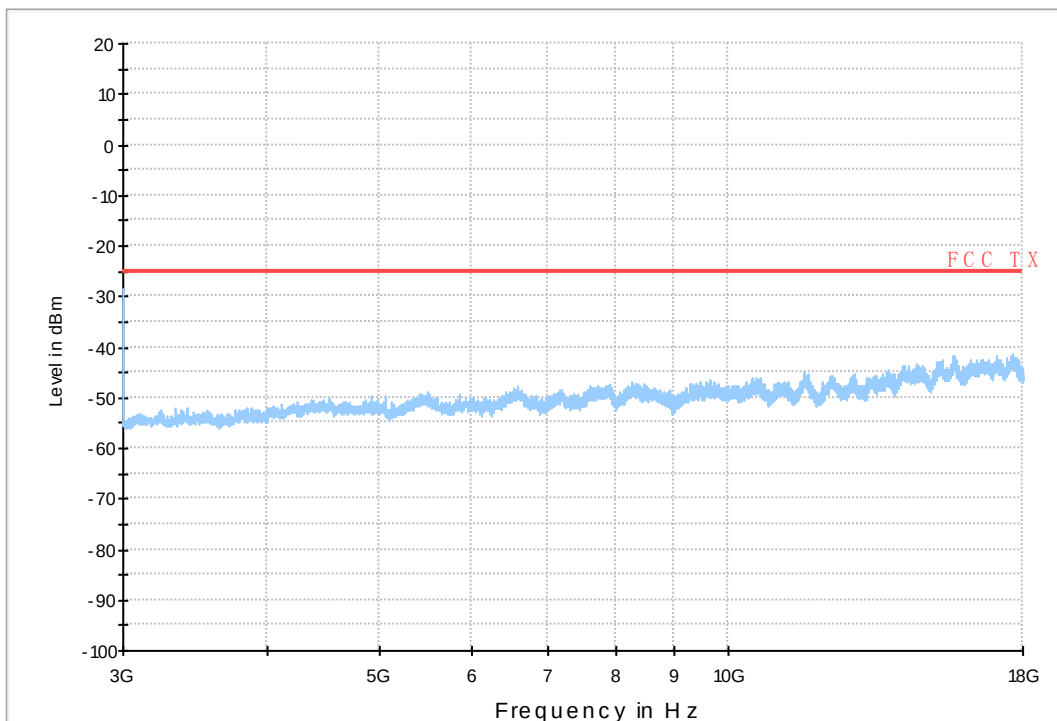




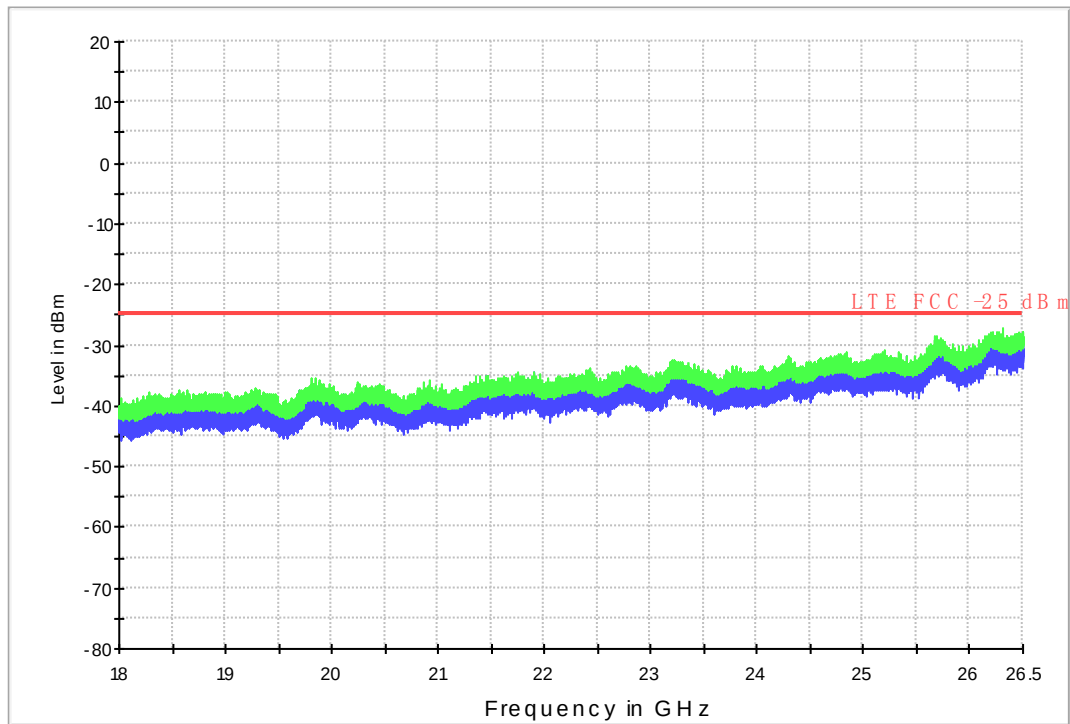
Copy of RSE-TX-DIRECTOR ABOVE 1.5G Limit -25\_L



Copy of RSE-TX-DIRECTOR ABOVE 1.5G Limit -25\_H



## 18G~26.5G RSE-TX-DIRECTOR ABOVE 1.5G PK



## 8Appendix\_H: Frequency Stability

### 8.1 For LTE

#### 8.1.1Frequency Error vs. Voltage:

| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Temp. | Test Volt. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|------------|------------------|-----------------------|---------|
| BAND7     | LTE/TM1   | 5                    | LCH          | TN         | VL         | -4.06            | -0.00162              | PASS    |
|           |           |                      |              |            | VN         | -4.16            | -0.00166              | PASS    |
|           |           |                      |              |            | VH         | -10.34           | -0.00413              | PASS    |
|           |           |                      | MCH          | TN         | VL         | -4.48            | -0.00177              | PASS    |
|           |           |                      |              |            | VN         | -6.38            | -0.00252              | PASS    |
|           |           |                      |              |            | VH         | -5.99            | -0.00236              | PASS    |
|           |           |                      | HCH          | TN         | VL         | -5.92            | -0.00231              | PASS    |
|           |           |                      |              |            | VN         | -5.45            | -0.00212              | PASS    |
|           |           |                      |              |            | VH         | -5.99            | -0.00233              | PASS    |
|           |           | 10                   | LCH          | TN         | VL         | -5.42            | -0.00216              | PASS    |
|           |           |                      |              |            | VN         | -5.28            | -0.00211              | PASS    |
|           |           |                      |              |            | VH         | 0.17             | 0.00007               | PASS    |
|           |           |                      | MCH          | TN         | VL         | -5.42            | -0.00214              | PASS    |
|           |           |                      |              |            | VN         | -5.48            | -0.00216              | PASS    |
|           |           |                      |              |            | VH         | -5.98            | -0.00236              | PASS    |
|           |           |                      | HCH          | TN         | VL         | -7.20            | -0.00281              | PASS    |
|           |           |                      |              |            | VN         | -3.46            | -0.00135              | PASS    |
|           |           |                      |              |            | VH         | -2.22            | -0.00087              | PASS    |
|           |           | 15                   | LCH          | TN         | VL         | -4.15            | -0.00166              | PASS    |
|           |           |                      |              |            | VN         | -0.66            | -0.00026              | PASS    |
|           |           |                      |              |            | VH         | -6.37            | -0.00254              | PASS    |
|           |           |                      | MCH          | TN         | VL         | -10.34           | -0.00408              | PASS    |
|           |           |                      |              |            | VN         | -7.44            | -0.00293              | PASS    |
|           |           |                      |              |            | VH         | -8.90            | -0.00351              | PASS    |
|           |           |                      | HCH          | TN         | VL         | -4.51            | -0.00176              | PASS    |
|           |           |                      |              |            | VN         | 0.59             | 0.00023               | PASS    |
|           |           |                      |              |            | VH         | -5.39            | -0.0021               | PASS    |
|           |           | 20                   | LCH          | TN         | VL         | 0.19             | 0.00008               | PASS    |
|           |           |                      |              |            | VN         | -5.15            | -0.00205              | PASS    |
|           |           |                      |              |            | VH         | -3.30            | -0.00131              | PASS    |



| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Temp. | Test Volt. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|------------|------------------|-----------------------|---------|
|           | LTE/TM2   |                      | MCH          | TN         | VL         | -2.96            | -0.00117              | PASS    |
|           |           |                      |              |            | VN         | -9.38            | -0.0037               | PASS    |
|           |           |                      |              |            | VH         | -1.40            | -0.00055              | PASS    |
|           |           |                      | HCH          | TN         | VL         | -5.12            | -0.002                | PASS    |
|           |           |                      |              |            | VN         | -7.90            | -0.00309              | PASS    |
|           |           |                      |              |            | VH         | -6.77            | -0.00264              | PASS    |
|           |           | 5                    | LCH          | TN         | VL         | -2.09            | -0.00084              | PASS    |
|           |           |                      |              |            | VN         | -2.07            | -0.00083              | PASS    |
|           |           |                      |              |            | VH         | 1.26             | 0.0005                | PASS    |
|           |           |                      | MCH          | TN         | VL         | -10.43           | -0.00411              | PASS    |
|           |           |                      |              |            | VN         | -9.67            | -0.00381              | PASS    |
|           |           |                      |              |            | VH         | -9.26            | -0.00365              | PASS    |
|           |           |                      | HCH          | TN         | VL         | -3.79            | -0.00148              | PASS    |
|           |           |                      |              |            | VN         | -4.28            | -0.00167              | PASS    |
|           |           |                      |              |            | VH         | -3.06            | -0.00119              | PASS    |
|           |           | 10                   | LCH          | TN         | VL         | -3.91            | -0.00156              | PASS    |
|           |           |                      |              |            | VN         | -3.83            | -0.00153              | PASS    |
|           |           |                      |              |            | VH         | -4.35            | -0.00174              | PASS    |
|           |           |                      | MCH          | TN         | VL         | -4.01            | -0.00158              | PASS    |
|           |           |                      |              |            | VN         | -6.34            | -0.0025               | PASS    |
|           |           |                      |              |            | VH         | -3.26            | -0.00129              | PASS    |
|           |           |                      | HCH          | TN         | VL         | 2.06             | 0.0008                | PASS    |
|           |           |                      |              |            | VN         | -3.00            | -0.00117              | PASS    |
|           |           |                      |              |            | VH         | 1.43             | 0.00056               | PASS    |
|           |           | 15                   | LCH          | TN         | VL         | -2.37            | -0.00095              | PASS    |
|           |           |                      |              |            | VN         | -3.89            | -0.00155              | PASS    |
|           |           |                      |              |            | VH         | -4.62            | -0.00184              | PASS    |
|           |           |                      | MCH          | TN         | VL         | -0.41            | -0.00016              | PASS    |
|           |           |                      |              |            | VN         | -0.13            | -0.00005              | PASS    |
|           |           |                      |              |            | VH         | -3.65            | -0.00144              | PASS    |
|           |           |                      | HCH          | TN         | VL         | -5.81            | -0.00227              | PASS    |
|           |           |                      |              |            | VN         | -7.82            | -0.00305              | PASS    |
|           |           |                      |              |            | VH         | -8.15            | -0.00318              | PASS    |
|           |           | 20                   | LCH          | TN         | VL         | -6.44            | -0.00257              | PASS    |
|           |           |                      |              |            | VN         | -2.85            | -0.00114              | PASS    |
|           |           |                      |              |            | VH         | -0.79            | -0.00031              | PASS    |
|           |           |                      | MCH          | TN         | VL         | -1.87            | -0.00074              | PASS    |
|           |           |                      |              |            | VN         | -5.82            | -0.0023               | PASS    |





| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Temp. | Test Volt. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|------------|------------------|-----------------------|---------|
|           |           |                      | HCH          | TN         | VH         | -5.91            | -0.00233              | PASS    |
|           |           |                      |              |            | VL         | -10.73           | -0.00419              | PASS    |
|           |           |                      |              |            | VN         | -6.38            | -0.00249              | PASS    |
|           |           |                      |              |            | VH         | -5.12            | -0.002                | PASS    |

## 8.1.2 Frequency Error vs. Temperature:

| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Volt. | Test Temp | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|-----------|------------------|-----------------------|---------|
| BAND7     | LTE/TM1   | 5                    | LCH          | VN         | -30       | -4.79            | -0.00191              | PASS    |
|           |           |                      |              |            | -20       | -1.76            | -0.0007               | PASS    |
|           |           |                      |              |            | -10       | -4.94            | -0.00197              | PASS    |
|           |           |                      |              |            | 0         | -8.70            | -0.00348              | PASS    |
|           |           |                      |              |            | 10        | -3.96            | -0.00158              | PASS    |
|           |           |                      |              |            | 20        | -2.09            | -0.00084              | PASS    |
|           |           |                      |              |            | 30        | -7.01            | -0.0028               | PASS    |
|           |           |                      |              |            | 40        | -0.20            | -0.00008              | PASS    |
|           |           |                      |              |            | 50        | -4.94            | -0.00197              | PASS    |
|           |           |                      | MCH          | VN         | -30       | -1.56            | -0.00062              | PASS    |
|           |           |                      |              |            | -20       | -1.90            | -0.00075              | PASS    |
|           |           |                      |              |            | -10       | -3.43            | -0.00135              | PASS    |
|           |           |                      |              |            | 0         | -0.56            | -0.00022              | PASS    |
|           |           |                      |              |            | 10        | -0.43            | -0.00017              | PASS    |
|           |           |                      |              |            | 20        | 2.16             | 0.00085               | PASS    |
|           |           |                      |              |            | 30        | -6.24            | -0.00246              | PASS    |
|           |           |                      |              |            | 40        | -9.01            | -0.00355              | PASS    |
|           |           |                      |              |            | 50        | -5.19            | -0.00205              | PASS    |
|           |           |                      | HCH          | VN         | -30       | -1.44            | -0.00056              | PASS    |
|           |           |                      |              |            | -20       | -5.51            | -0.00215              | PASS    |
|           |           |                      |              |            | -10       | -7.34            | -0.00286              | PASS    |
|           |           |                      |              |            | 0         | -3.72            | -0.00145              | PASS    |
|           |           |                      |              |            | 10        | -8.87            | -0.00345              | PASS    |
|           |           |                      |              |            | 20        | -6.98            | -0.00272              | PASS    |
|           |           |                      |              |            | 30        | -0.36            | -0.00014              | PASS    |
|           |           |                      |              |            | 40        | -5.94            | -0.00231              | PASS    |
|           |           |                      |              |            | 50        | -0.87            | -0.00034              | PASS    |
|           |           | 10                   | LCH          | VN         | -30       | -3.99            | -0.00159              | PASS    |



| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Volt. | Test Temp | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|-----------|------------------|-----------------------|---------|
|           |           |                      |              |            | -20       | 0.94             | 0.00038               | PASS    |
|           |           |                      |              |            | -10       | -3.85            | -0.00154              | PASS    |
|           |           |                      |              |            | 0         | -2.36            | -0.00094              | PASS    |
|           |           |                      |              |            | 10        | -4.53            | -0.00181              | PASS    |
|           |           |                      |              |            | 20        | -4.65            | -0.00186              | PASS    |
|           |           |                      |              |            | 30        | -1.67            | -0.00067              | PASS    |
|           |           |                      |              |            | 40        | -4.62            | -0.00184              | PASS    |
|           |           |                      |              |            | 50        | -2.88            | -0.00115              | PASS    |
|           |           |                      | MCH          | VN         | -30       | -8.34            | -0.00329              | PASS    |
|           |           |                      |              |            | -20       | -8.43            | -0.00333              | PASS    |
|           |           |                      |              |            | -10       | -6.52            | -0.00257              | PASS    |
|           |           |                      |              |            | 0         | -6.45            | -0.00254              | PASS    |
|           |           |                      |              |            | 10        | -6.98            | -0.00275              | PASS    |
|           |           |                      |              |            | 20        | -4.12            | -0.00163              | PASS    |
|           |           |                      |              |            | 30        | -2.46            | -0.00097              | PASS    |
|           |           |                      |              |            | 40        | -3.06            | -0.00121              | PASS    |
|           |           |                      |              |            | 50        | -8.30            | -0.00327              | PASS    |
|           |           |                      | HCH          | VN         | -30       | -1.85            | -0.00072              | PASS    |
|           |           |                      |              |            | -20       | 1.12             | 0.00044               | PASS    |
|           |           |                      |              |            | -10       | -4.49            | -0.00175              | PASS    |
|           |           |                      |              |            | 0         | -1.82            | -0.00071              | PASS    |
|           |           |                      |              |            | 10        | -2.93            | -0.00114              | PASS    |
|           |           |                      |              |            | 20        | -3.75            | -0.00146              | PASS    |
|           |           |                      |              |            | 30        | -0.79            | -0.00031              | PASS    |
|           |           |                      |              |            | 40        | -1.59            | -0.00062              | PASS    |
|           |           |                      |              |            | 50        | -0.51            | -0.0002               | PASS    |
|           |           | 15                   | LCH          | VN         | -30       | -3.20            | -0.00128              | PASS    |
|           |           |                      |              |            | -20       | -6.42            | -0.00256              | PASS    |
|           |           |                      |              |            | -10       | -11.20           | -0.00447              | PASS    |
|           |           |                      |              |            | 0         | -5.92            | -0.00236              | PASS    |
|           |           |                      |              |            | 10        | -7.52            | -0.003                | PASS    |
|           |           |                      |              |            | 20        | -4.84            | -0.00193              | PASS    |
|           |           |                      |              |            | 30        | -8.17            | -0.00326              | PASS    |
|           |           |                      |              |            | 40        | -8.21            | -0.00327              | PASS    |
|           |           |                      |              |            | 50        | -2.88            | -0.00115              | PASS    |
|           |           |                      | MCH          | VN         | -30       | -6.49            | -0.00256              | PASS    |
|           |           |                      |              |            | -20       | -8.71            | -0.00344              | PASS    |
|           |           |                      |              |            | -10       | -9.28            | -0.00366              | PASS    |



| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Volt. | Test Temp | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|-----------|------------------|-----------------------|---------|
|           |           |                      |              |            | 0         | -6.84            | -0.0027               | PASS    |
|           |           |                      |              |            | 10        | -1.79            | -0.00071              | PASS    |
|           |           |                      |              |            | 20        | -11.87           | -0.00468              | PASS    |
|           |           |                      |              |            | 30        | -7.14            | -0.00282              | PASS    |
|           |           |                      |              |            | 40        | -10.77           | -0.00425              | PASS    |
|           |           |                      |              |            | 50        | -4.52            | -0.00178              | PASS    |
|           |           |                      | HCH          | VN         | -30       | -3.96            | -0.00155              | PASS    |
|           |           |                      |              |            | -20       | -0.56            | -0.00022              | PASS    |
|           |           |                      |              |            | -10       | -4.81            | -0.00188              | PASS    |
|           |           |                      |              |            | 0         | -6.77            | -0.00264              | PASS    |
|           |           |                      |              |            | 10        | -3.46            | -0.00135              | PASS    |
|           |           |                      |              |            | 20        | -6.59            | -0.00257              | PASS    |
|           |           |                      |              |            | 30        | -4.23            | -0.00165              | PASS    |
|           |           |                      |              |            | 40        | -7.72            | -0.00301              | PASS    |
|           |           |                      |              |            | 50        | -7.32            | -0.00286              | PASS    |
|           |           | 20                   | LCH          | VN         | -30       | -0.14            | -0.00006              | PASS    |
|           |           |                      |              |            | -20       | -2.53            | -0.00101              | PASS    |
|           |           |                      |              |            | -10       | 0.39             | 0.00016               | PASS    |
|           |           |                      |              |            | 0         | 1.03             | 0.00041               | PASS    |
|           |           |                      |              |            | 10        | 0.50             | 0.0002                | PASS    |
|           |           |                      |              |            | 20        | -0.13            | -0.00005              | PASS    |
|           |           |                      |              |            | 30        | -0.19            | -0.00008              | PASS    |
|           |           |                      |              |            | 40        | 0.13             | 0.00005               | PASS    |
|           |           |                      |              |            | 50        | 1.66             | 0.00066               | PASS    |
|           |           |                      | MCH          | VN         | -30       | -4.82            | -0.0019               | PASS    |
|           |           |                      |              |            | -20       | -0.47            | -0.00019              | PASS    |
|           |           |                      |              |            | -10       | -0.79            | -0.00031              | PASS    |
|           |           |                      |              |            | 0         | -1.50            | -0.00059              | PASS    |
|           |           |                      |              |            | 10        | 0.76             | 0.0003                | PASS    |
|           |           |                      |              |            | 20        | -0.94            | -0.00037              | PASS    |
|           |           |                      |              |            | 30        | -3.23            | -0.00127              | PASS    |
|           |           |                      |              |            | 40        | -1.23            | -0.00049              | PASS    |
|           |           |                      |              |            | 50        | -1.02            | -0.0004               | PASS    |
|           |           |                      | HCH          | VN         | -30       | -5.31            | -0.00207              | PASS    |
|           |           |                      |              |            | -20       | -5.64            | -0.0022               | PASS    |
|           |           |                      |              |            | -10       | -6.17            | -0.00241              | PASS    |
|           |           |                      |              |            | 0         | -3.82            | -0.00149              | PASS    |
|           |           |                      |              |            | 10        | -8.31            | -0.00325              | PASS    |



| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Volt. | Test Temp | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|-----------|------------------|-----------------------|---------|
|           | LTE/TM2   |                      |              |            | 20        | -7.67            | -0.003                | PASS    |
|           |           |                      |              |            | 30        | -9.47            | -0.0037               | PASS    |
|           |           |                      |              |            | 40        | -4.94            | -0.00193              | PASS    |
|           |           |                      |              |            | 50        | -6.17            | -0.00241              | PASS    |
|           |           | 5                    | LCH          | VN         | -30       | -2.57            | -0.00103              | PASS    |
|           |           |                      |              |            | -20       | -4.81            | -0.00192              | PASS    |
|           |           |                      |              |            | -10       | -2.00            | -0.0008               | PASS    |
|           |           |                      |              |            | 0         | -8.51            | -0.0034               | PASS    |
|           |           |                      |              |            | 10        | -4.41            | -0.00176              | PASS    |
|           |           |                      |              |            | 20        | -5.51            | -0.0022               | PASS    |
|           |           |                      |              |            | 30        | -1.24            | -0.0005               | PASS    |
|           |           |                      |              |            | 40        | 2.47             | 0.00099               | PASS    |
|           |           |                      |              |            | 50        | -7.17            | -0.00287              | PASS    |
|           |           |                      | MCH          | VN         | -30       | -0.66            | -0.00026              | PASS    |
|           |           |                      |              |            | -20       | -5.68            | -0.00224              | PASS    |
|           |           |                      |              |            | -10       | -2.78            | -0.0011               | PASS    |
|           |           |                      |              |            | 0         | -6.52            | -0.00257              | PASS    |
|           |           |                      |              |            | 10        | -4.35            | -0.00172              | PASS    |
|           |           |                      |              |            | 20        | 0.84             | 0.00033               | PASS    |
|           |           |                      |              |            | 30        | -2.15            | -0.00085              | PASS    |
|           |           |                      |              |            | 40        | -8.38            | -0.00331              | PASS    |
|           |           |                      |              |            | 50        | 2.12             | 0.00084               | PASS    |
|           |           |                      | HCH          | VN         | -30       | -0.67            | -0.00026              | PASS    |
|           |           |                      |              |            | -20       | -2.30            | -0.0009               | PASS    |
|           |           |                      |              |            | -10       | -9.34            | -0.00364              | PASS    |
|           |           |                      |              |            | 0         | -7.95            | -0.0031               | PASS    |
|           |           |                      |              |            | 10        | -8.77            | -0.00342              | PASS    |
|           |           |                      |              |            | 20        | -2.93            | -0.00114              | PASS    |
|           |           |                      |              |            | 30        | -3.92            | -0.00153              | PASS    |
|           |           |                      |              |            | 40        | -8.63            | -0.00336              | PASS    |
|           |           |                      |              |            | 50        | -4.13            | -0.00161              | PASS    |
|           |           | 10                   | LCH          | VN         | -30       | -8.27            | -0.0033               | PASS    |
|           |           |                      |              |            | -20       | -7.67            | -0.00306              | PASS    |
|           |           |                      |              |            | -10       | -6.37            | -0.00254              | PASS    |
|           |           |                      |              |            | 0         | 0.72             | 0.00029               | PASS    |
|           |           |                      |              |            | 10        | -5.56            | -0.00222              | PASS    |
|           |           |                      |              |            | 20        | -7.50            | -0.00299              | PASS    |
|           |           |                      |              |            | 30        | -10.24           | -0.00409              | PASS    |



| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Volt. | Test Temp | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|-----------|------------------|-----------------------|---------|
|           |           |                      |              |            | 40        | -7.77            | -0.0031               | PASS    |
|           |           |                      |              |            | 50        | -8.27            | -0.0033               | PASS    |
|           |           |                      | MCH          | VN         | -30       | -1.22            | -0.00048              | PASS    |
|           |           |                      |              |            | -20       | -7.04            | -0.00278              | PASS    |
|           |           |                      |              |            | -10       | -1.70            | -0.00067              | PASS    |
|           |           |                      |              |            | 0         | -2.89            | -0.00114              | PASS    |
|           |           |                      |              |            | 10        | -3.20            | -0.00126              | PASS    |
|           |           |                      |              |            | 20        | -5.81            | -0.00229              | PASS    |
|           |           |                      |              |            | 30        | -3.32            | -0.00131              | PASS    |
|           |           |                      |              |            | 40        | -5.82            | -0.0023               | PASS    |
|           |           |                      |              |            | 50        | -10.04           | -0.00396              | PASS    |
|           |           |                      | HCH          | VN         | -30       | -5.19            | -0.00202              | PASS    |
|           |           |                      |              |            | -20       | -2.15            | -0.00084              | PASS    |
|           |           |                      |              |            | -10       | -4.11            | -0.0016               | PASS    |
|           |           |                      |              |            | 0         | 1.32             | 0.00051               | PASS    |
|           |           |                      |              |            | 10        | -6.12            | -0.00239              | PASS    |
|           |           |                      |              |            | 20        | 0.13             | 0.00005               | PASS    |
|           |           |                      |              |            | 30        | -1.67            | -0.00065              | PASS    |
|           |           |                      |              |            | 40        | -1.33            | -0.00052              | PASS    |
|           |           |                      |              |            | 50        | -1.63            | -0.00064              | PASS    |
|           |           | 15                   | LCH          | VN         | -30       | 0.13             | 0.00005               | PASS    |
|           |           |                      |              |            | -20       | 2.82             | 0.00112               | PASS    |
|           |           |                      |              |            | -10       | -3.13            | -0.00125              | PASS    |
|           |           |                      |              |            | 0         | -4.11            | -0.00164              | PASS    |
|           |           |                      |              |            | 10        | -0.82            | -0.00033              | PASS    |
|           |           |                      |              |            | 20        | -5.09            | -0.00203              | PASS    |
|           |           |                      |              |            | 30        | -6.98            | -0.00278              | PASS    |
|           |           |                      |              |            | 40        | -2.35            | -0.00094              | PASS    |
|           |           |                      |              |            | 50        | -8.68            | -0.00346              | PASS    |
|           |           |                      | MCH          | VN         | -30       | -9.27            | -0.00366              | PASS    |
|           |           |                      |              |            | -20       | -9.17            | -0.00362              | PASS    |
|           |           |                      |              |            | -10       | -13.38           | -0.00528              | PASS    |
|           |           |                      |              |            | 0         | -7.80            | -0.00308              | PASS    |
|           |           |                      |              |            | 10        | -6.54            | -0.00258              | PASS    |
|           |           |                      |              |            | 20        | -7.88            | -0.00311              | PASS    |
|           |           |                      |              |            | 30        | -4.19            | -0.00165              | PASS    |
|           |           |                      |              |            | 40        | -8.35            | -0.00329              | PASS    |
|           |           |                      |              |            | 50        | -7.34            | -0.0029               | PASS    |



| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Volt. | Test Temp | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|-----------|------------------|-----------------------|---------|
|           |           |                      | HCH          | VN         | -30       | -0.67            | -0.00026              | PASS    |
|           |           |                      |              |            | -20       | -6.28            | -0.00245              | PASS    |
|           |           |                      |              |            | -10       | -4.01            | -0.00156              | PASS    |
|           |           |                      |              |            | 0         | -5.88            | -0.00229              | PASS    |
|           |           |                      |              |            | 10        | -9.13            | -0.00356              | PASS    |
|           |           |                      |              |            | 20        | -5.92            | -0.00231              | PASS    |
|           |           |                      |              |            | 30        | -2.27            | -0.00089              | PASS    |
|           |           |                      |              |            | 40        | -10.70           | -0.00418              | PASS    |
|           |           |                      |              |            | 50        | -9.86            | -0.00385              | PASS    |
|           |           |                      | LCH          | VN         | -30       | -3.65            | -0.00145              | PASS    |
|           |           |                      |              |            | -20       | -4.61            | -0.00184              | PASS    |
|           |           |                      |              |            | -10       | -1.65            | -0.00066              | PASS    |
|           |           |                      |              |            | 0         | -0.26            | -0.0001               | PASS    |
|           |           |                      |              |            | 10        | -2.35            | -0.00094              | PASS    |
|           |           |                      |              |            | 20        | -3.66            | -0.00146              | PASS    |
|           |           |                      |              |            | 30        | -3.69            | -0.00147              | PASS    |
|           |           |                      |              |            | 40        | -2.02            | -0.0008               | PASS    |
|           |           |                      |              |            | 50        | -6.75            | -0.00269              | PASS    |
|           |           | 20                   | MCH          | VN         | -30       | 1.10             | 0.00043               | PASS    |
|           |           |                      |              |            | -20       | -3.78            | -0.00149              | PASS    |
|           |           |                      |              |            | -10       | -3.03            | -0.0012               | PASS    |
|           |           |                      |              |            | 0         | -2.00            | -0.00079              | PASS    |
|           |           |                      |              |            | 10        | -5.42            | -0.00214              | PASS    |
|           |           |                      |              |            | 20        | -0.97            | -0.00038              | PASS    |
|           |           |                      |              |            | 30        | 0.47             | 0.00019               | PASS    |
|           |           |                      |              |            | 40        | -2.30            | -0.00091              | PASS    |
|           |           |                      |              |            | 50        | -1.17            | -0.00046              | PASS    |
|           |           |                      | HCH          | VN         | -30       | -13.49           | -0.00527              | PASS    |
|           |           |                      |              |            | -20       | -9.06            | -0.00354              | PASS    |
|           |           |                      |              |            | -10       | -8.83            | -0.00345              | PASS    |
|           |           |                      |              |            | 0         | -10.71           | -0.00418              | PASS    |
|           |           |                      |              |            | 10        | -4.65            | -0.00182              | PASS    |
|           |           |                      |              |            | 20        | -7.42            | -0.0029               | PASS    |
|           |           |                      |              |            | 30        | -6.81            | -0.00266              | PASS    |
|           |           |                      |              |            | 40        | -7.24            | -0.00283              | PASS    |
|           |           |                      |              |            | 50        | -4.88            | -0.00191              | PASS    |

END