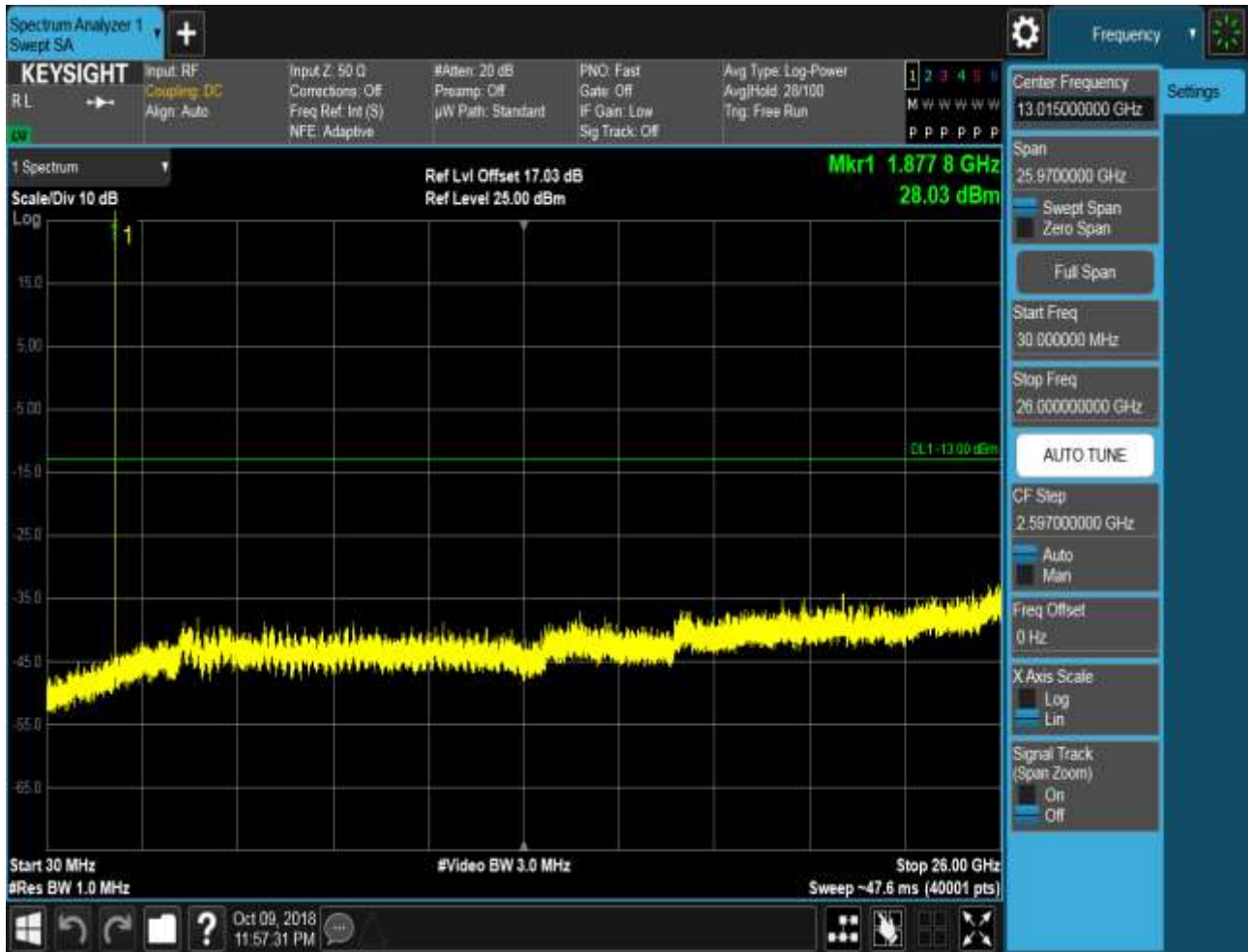


### 6.2.1.2.3.2 Test Channel = MCH

#### 6.2.1.2.3.2.1 Test RB = RB1#0





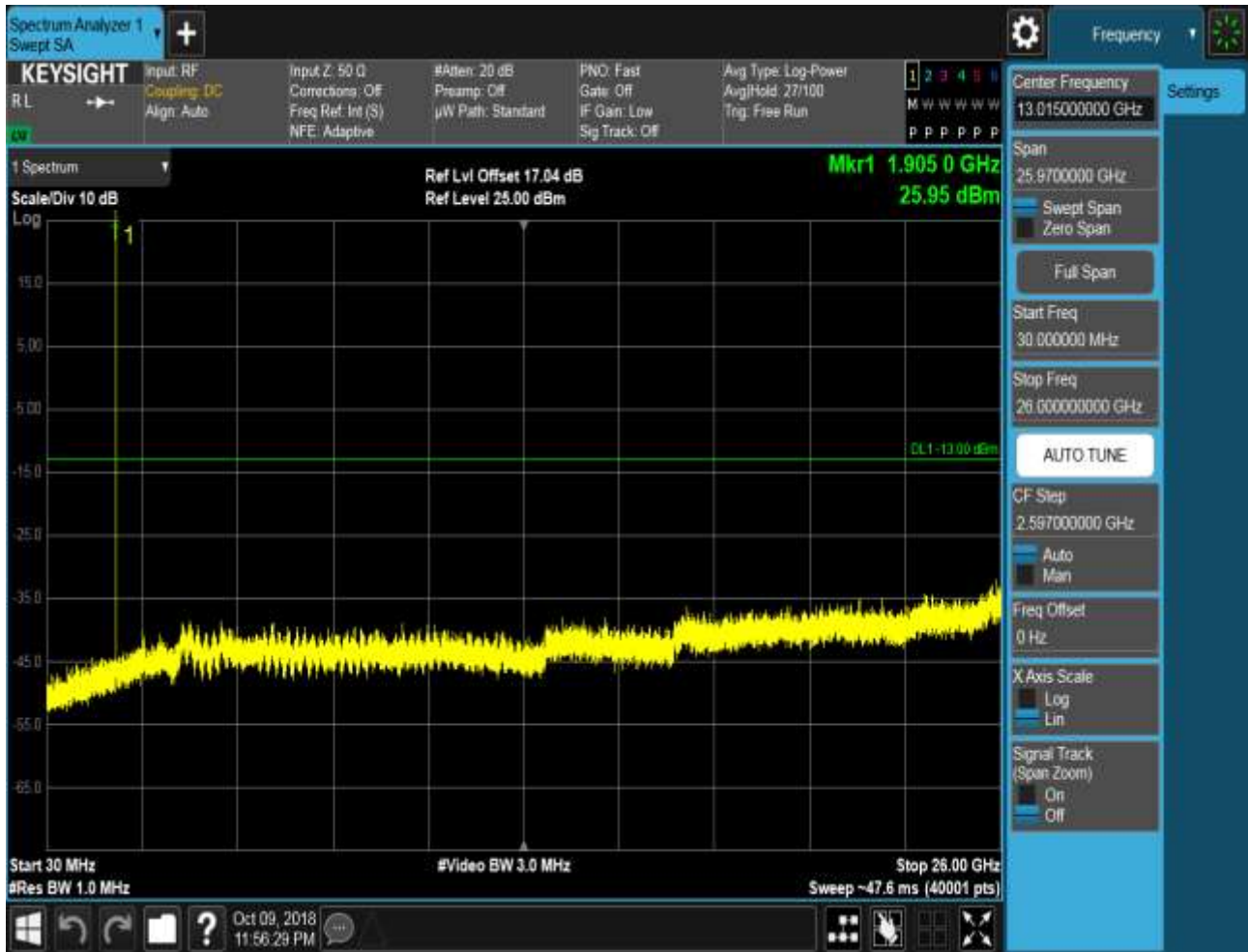


### 6.2.1.2.3.3 Test Channel = HCH

#### 6.2.1.2.3.3.1 Test RB = RB1#0







#### 6.2.1.2.4 Test Bandwidth = 10

##### 6.2.1.2.4.1 Test Channel = LCH

##### 6.2.1.2.4.1.1 Test RB = RB1#0







#### 6.2.1.2.4.2 Test Channel = MCH

##### 6.2.1.2.4.2.1 Test RB = RB1#0





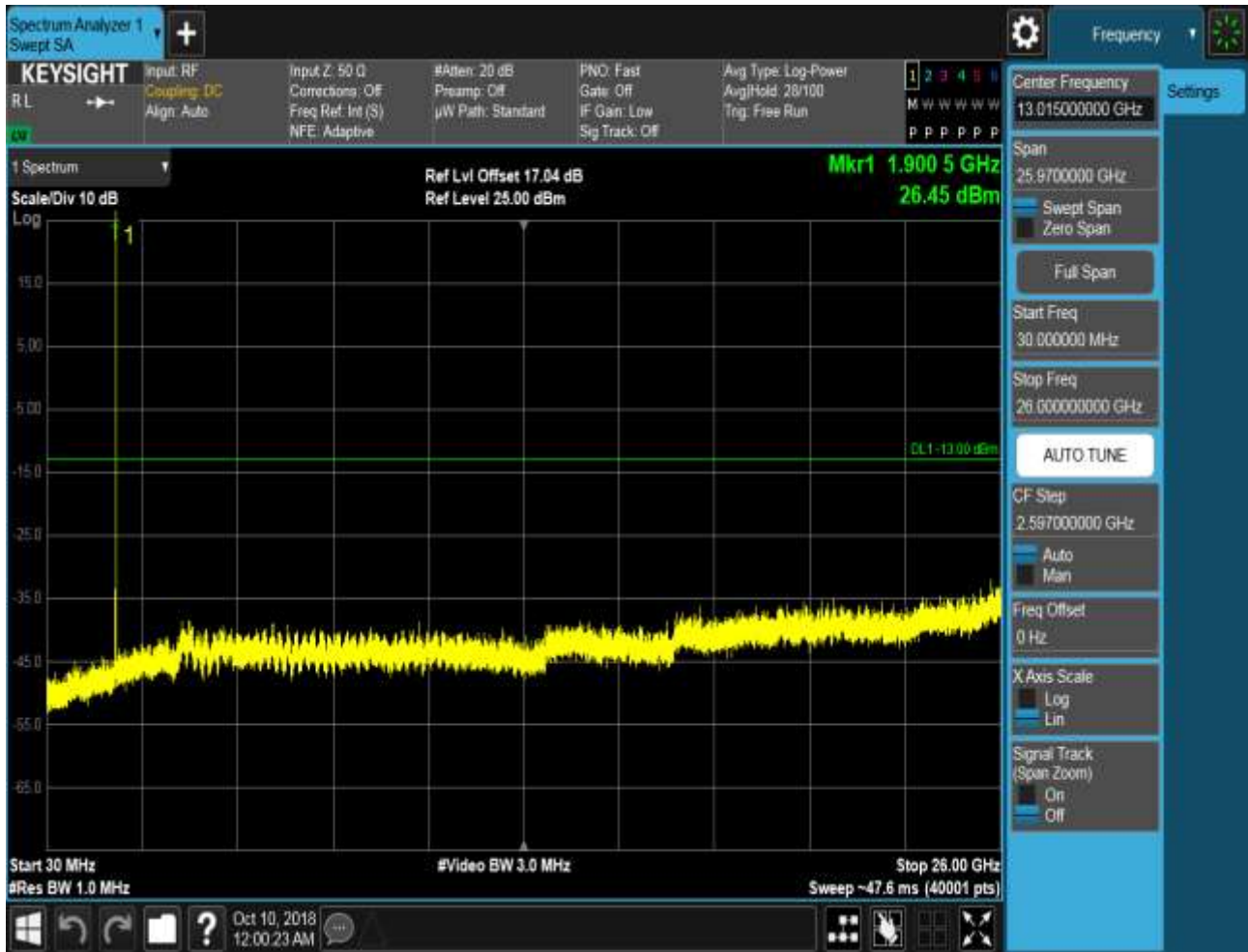


#### 6.2.1.2.4.3 Test Channel = HCH

##### 6.2.1.2.4.3.1 Test RB = RB1#0







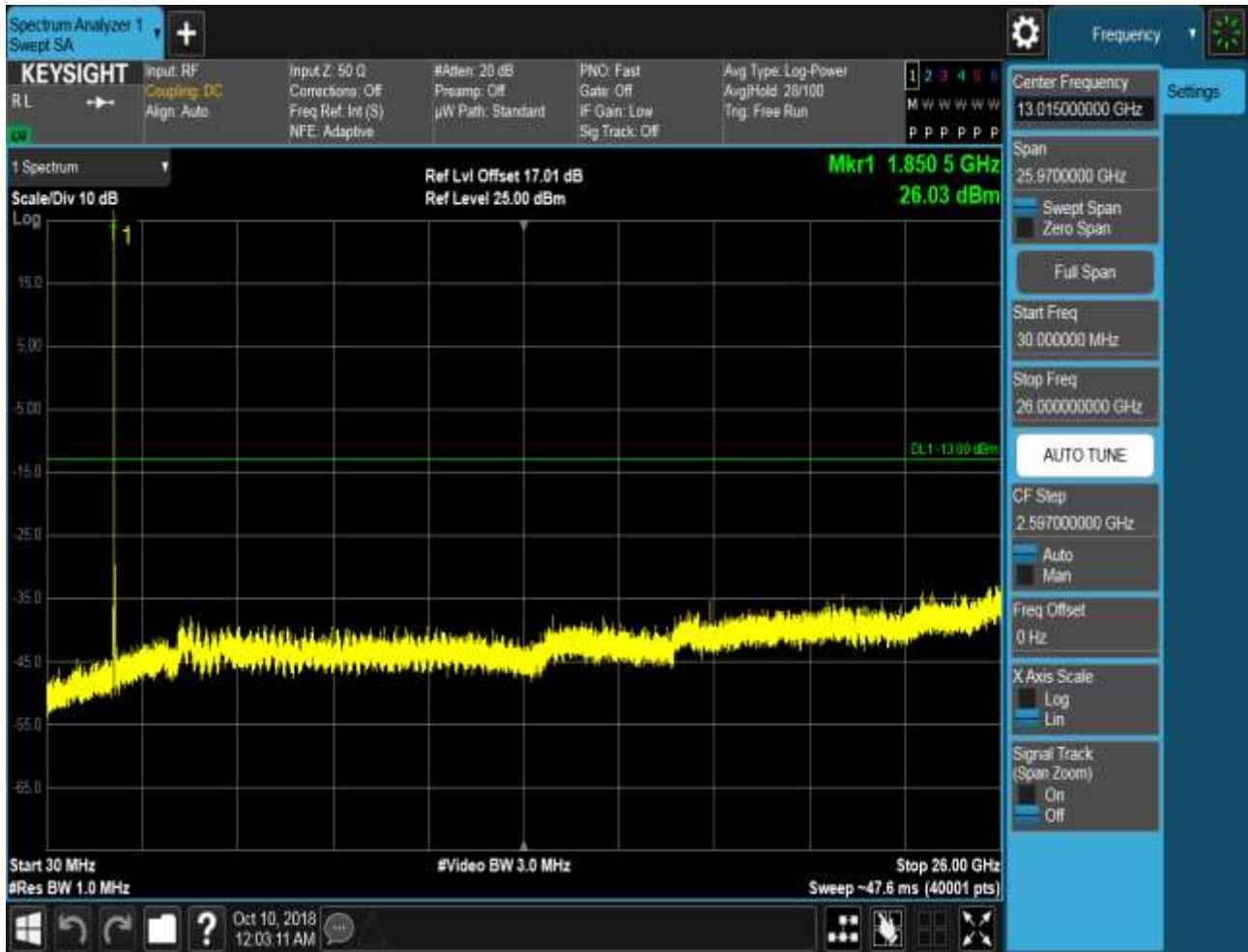
### 6.2.1.2.5 Test Bandwidth = 15

#### 6.2.1.2.5.1 Test Channel = LCH

##### 6.2.1.2.5.1.1 Test RB = RB1#0





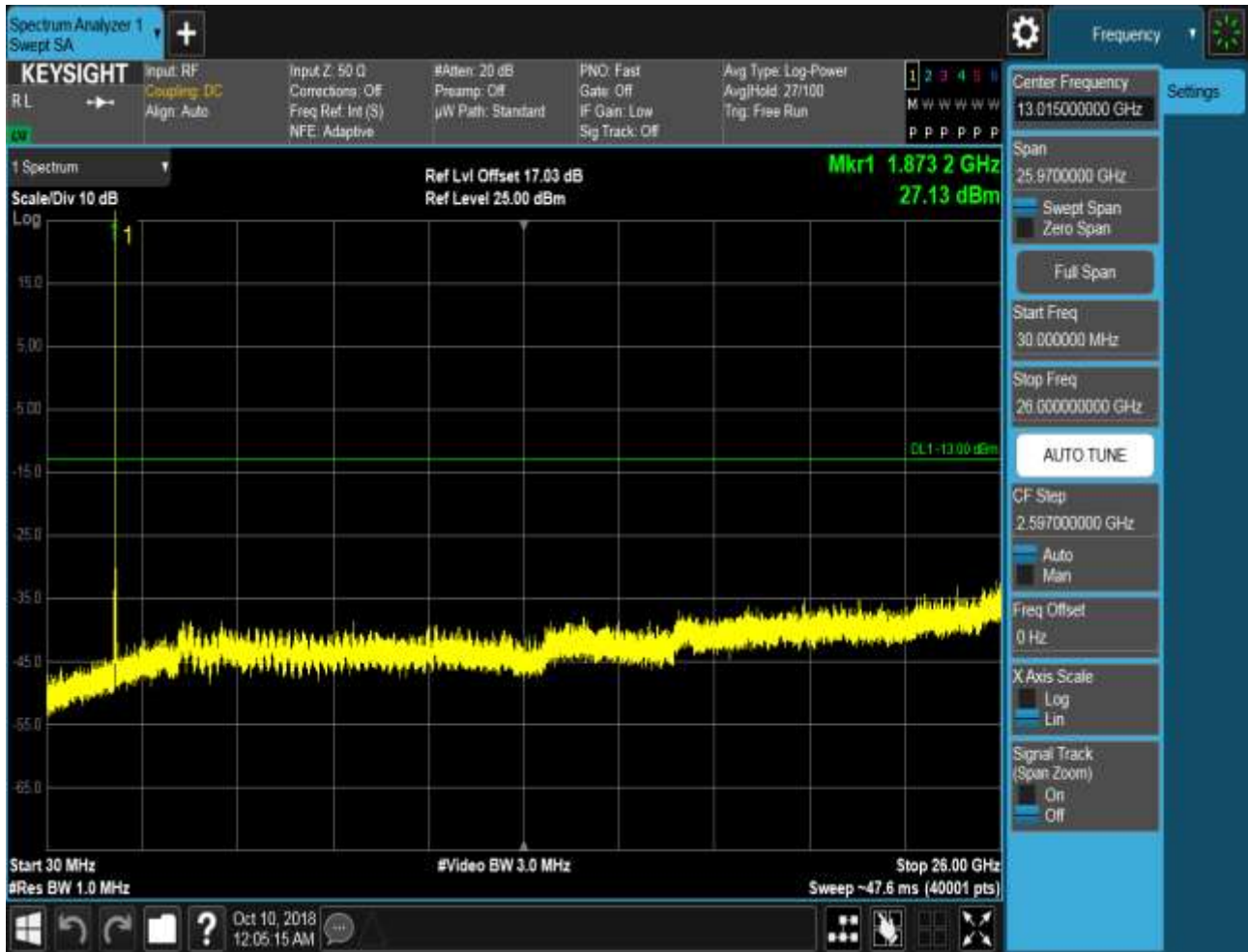


### 6.2.1.2.5.2 Test Channel = MCH

#### 6.2.1.2.5.2.1 Test RB = RB1#0





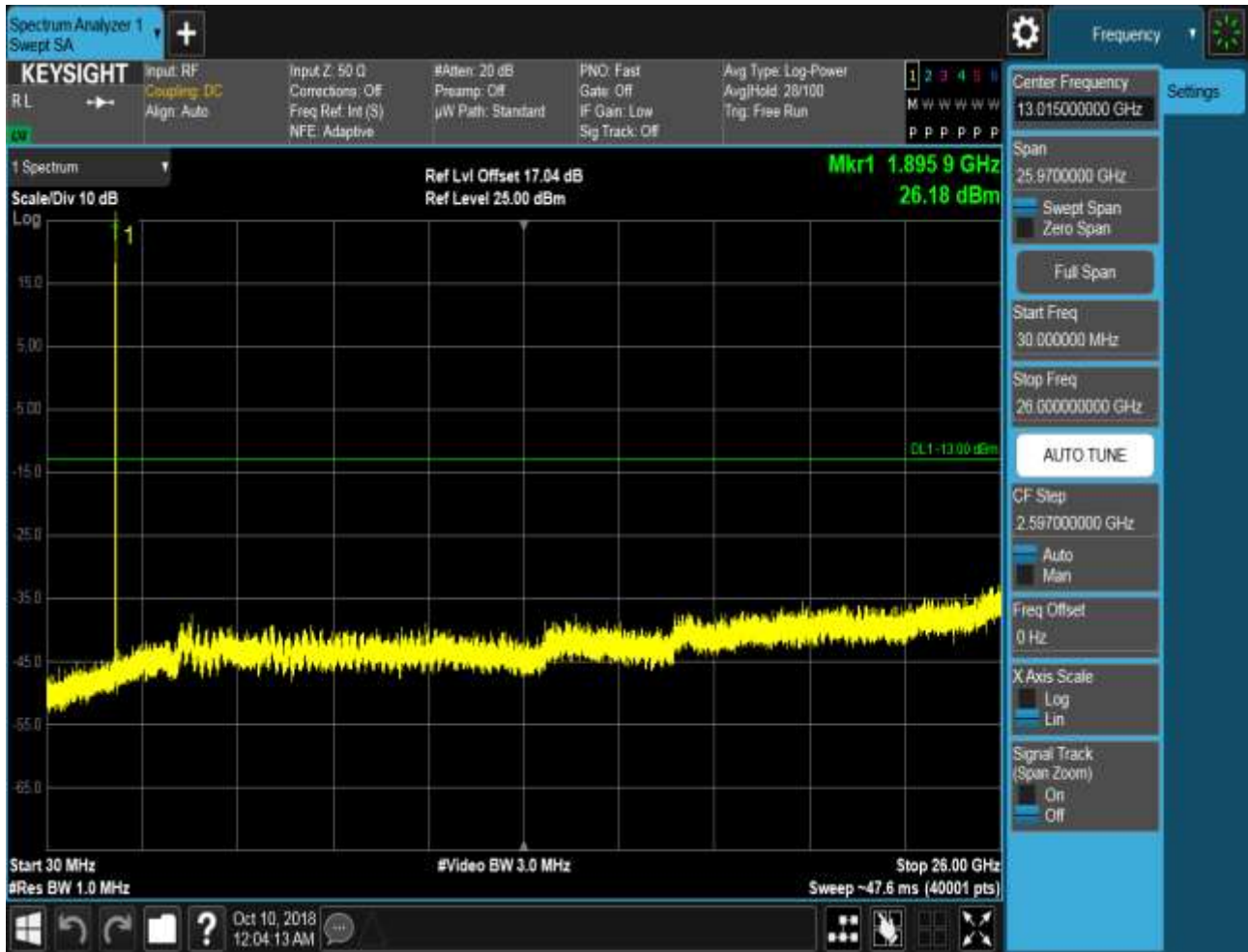


### 6.2.1.2.5.3 Test Channel = HCH

#### 6.2.1.2.5.3.1 Test RB = RB1#0







### 6.2.1.2.6 Test Bandwidth = 20

#### 6.2.1.2.6.1 Test Channel = LCH

##### 6.2.1.2.6.1.1 Test RB = RB1#0





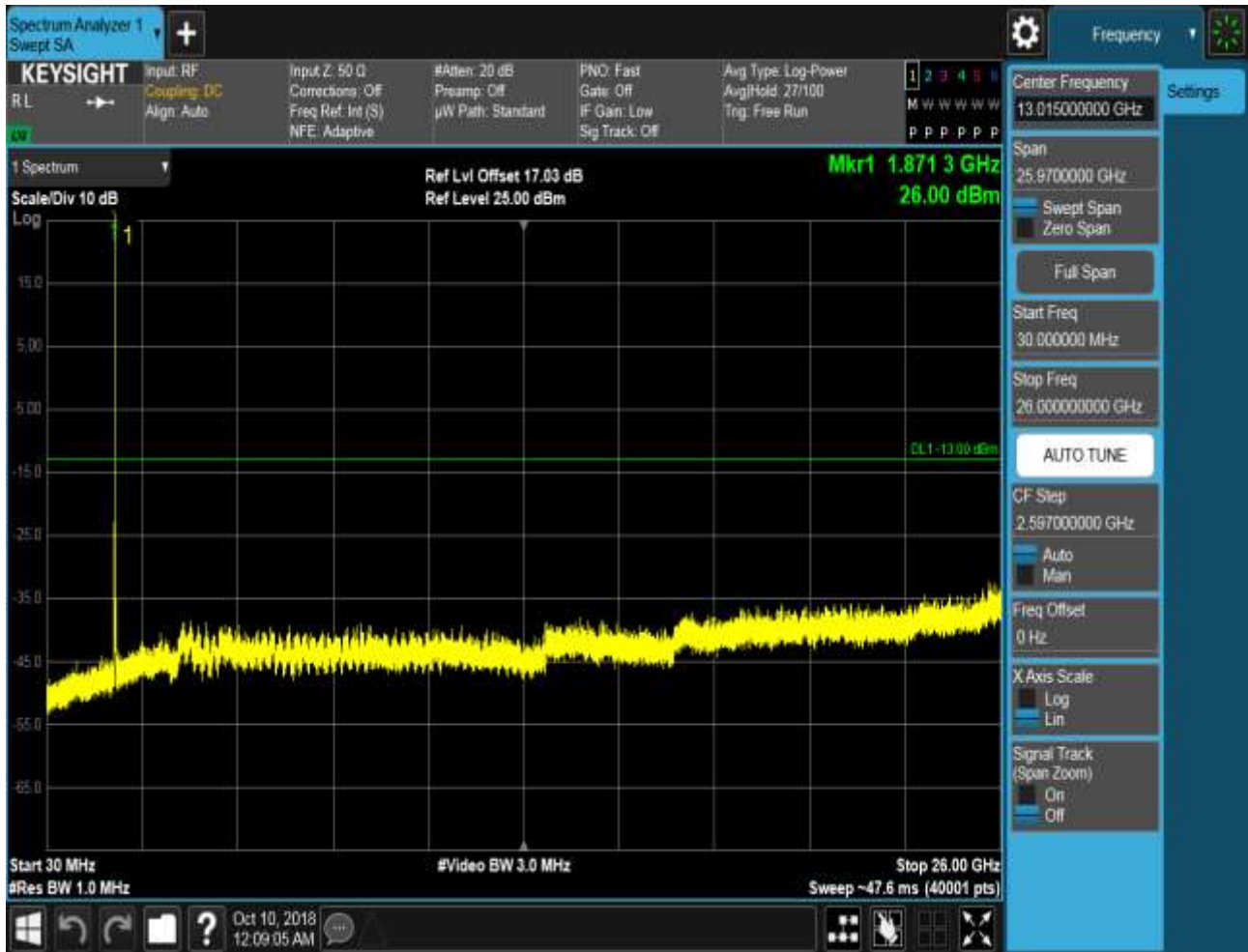


### 6.2.1.2.6.2 Test Channel = MCH

#### 6.2.1.2.6.2.1 Test RB = RB1#0







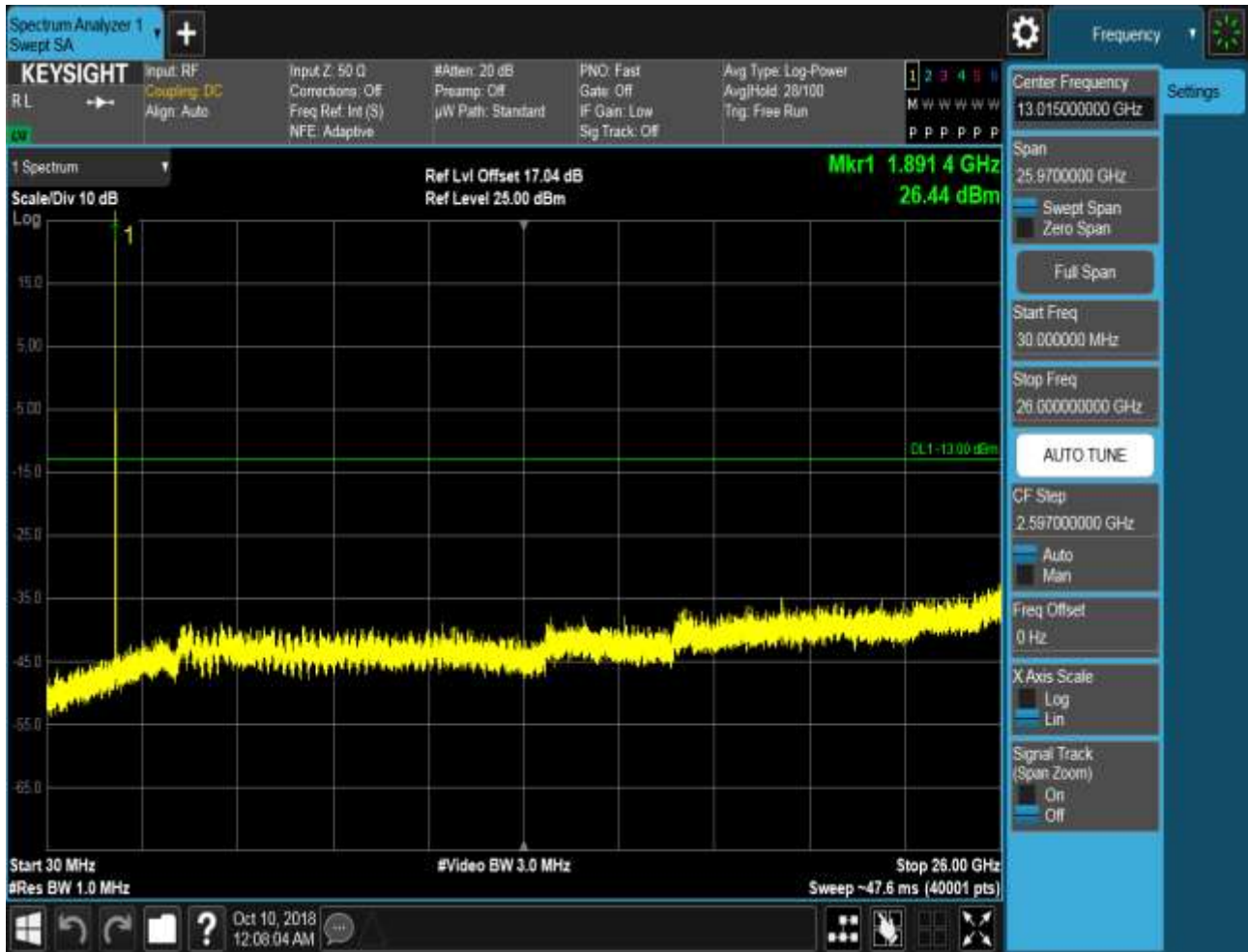


### 6.2.1.2.6.3 Test Channel = HCH

#### 6.2.1.2.6.3.1 Test RB = RB1#0









## 7Appendix\_G: Frequency Stability

### 7.1 For LTE

#### 7.1.1Frequency Error vs. Voltage:

| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Temp. | Test Volt. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|------------|------------------|-----------------------|---------|
| Band2     | LTE/TM1   | 1.4                  | LCH          | TN         | VL         | -11.05785        | -0.00597              | PASS    |
|           |           |                      |              |            | VN         | 4.59194          | 0.00248               | PASS    |
|           |           |                      |              |            | VH         | -9.38415         | -0.00507              | PASS    |
|           |           |                      | MCH          | TN         | VL         | 0.80109          | 0.00043               | PASS    |
|           |           |                      |              |            | VN         | -7.10964         | -0.00378              | PASS    |
|           |           |                      |              |            | VH         | 10.64301         | 0.00566               | PASS    |
|           |           |                      | HCH          | TN         | VL         | -4.32015         | -0.00226              | PASS    |
|           |           |                      |              |            | VN         | -6.35147         | -0.00333              | PASS    |
|           |           |                      |              |            | VH         | -8.74043         | -0.00458              | PASS    |
|           |           | 3                    | LCH          | TN         | VL         | -9.26971         | -0.00501              | PASS    |
|           |           |                      |              |            | VN         | -23.20290        | -0.01253              | PASS    |
|           |           |                      |              |            | VH         | -16.13617        | -0.00872              | PASS    |
|           |           |                      | MCH          | TN         | VL         | -0.92983         | -0.00049              | PASS    |
|           |           |                      |              |            | VN         | -4.53472         | -0.00241              | PASS    |
|           |           |                      |              |            | VH         | -0.98705         | -0.00053              | PASS    |
|           |           |                      | HCH          | TN         | VL         | -4.63486         | -0.00243              | PASS    |
|           |           |                      |              |            | VN         | -5.83649         | -0.00306              | PASS    |
|           |           |                      |              |            | VH         | -2.34604         | -0.00123              | PASS    |
|           |           | 5                    | LCH          | TN         | VL         | -7.33852         | -0.00396              | PASS    |
|           |           |                      |              |            | VN         | -28.61023        | -0.01544              | PASS    |
|           |           |                      |              |            | VH         | -13.97610        | -0.00754              | PASS    |
|           |           |                      | MCH          | TN         | VL         | -0.28610         | -0.00015              | PASS    |
|           |           |                      |              |            | VN         | -2.21729         | -0.00118              | PASS    |
|           |           |                      |              |            | VH         | -2.68936         | -0.00143              | PASS    |
|           |           |                      | HCH          | TN         | VL         | -5.87940         | -0.00308              | PASS    |
|           |           |                      |              |            | VN         | -12.96043        | -0.00679              | PASS    |
|           |           |                      |              |            | VH         | -1.83106         | -0.00096              | PASS    |
|           |           | 10                   | LCH          | TN         | VL         | -3.23296         | -0.00174              | PASS    |
|           |           |                      |              |            | VN         | -10.75745        | -0.00580              | PASS    |
|           |           |                      |              |            | VH         | -7.65324         | -0.00413              | PASS    |
|           |           |                      | MCH          | TN         | VL         | -3.11851         | -0.00166              | PASS    |
|           |           |                      |              |            | VN         | 0.34332          | 0.00018               | PASS    |



| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Temp. | Test Volt. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|------------|------------------|-----------------------|---------|
|           | LTE/TM2   |                      | HCH          | TN         | VH         | -0.22888         | -0.00012              | PASS    |
|           |           |                      |              |            | VL         | -2.44618         | -0.00128              | PASS    |
|           |           |                      |              |            | VN         | -7.09534         | -0.00372              | PASS    |
|           |           |                      |              |            | VH         | -4.03404         | -0.00212              | PASS    |
|           |           | 15                   | LCH          | TN         | VL         | -4.66347         | -0.00251              | PASS    |
|           |           |                      |              |            | VN         | -11.21521        | -0.00604              | PASS    |
|           |           |                      |              |            | VH         | -8.48293         | -0.00457              | PASS    |
|           |           |                      | MCH          | TN         | VL         | -2.57492         | -0.00137              | PASS    |
|           |           |                      |              |            | VN         | -2.38895         | -0.00127              | PASS    |
|           |           |                      |              |            | VH         | -2.46048         | -0.00131              | PASS    |
|           |           |                      | HCH          | TN         | VL         | -0.48637         | -0.00026              | PASS    |
|           |           |                      |              |            | VN         | -4.39167         | -0.00231              | PASS    |
|           |           |                      |              |            | VH         | -1.47343         | -0.00077              | PASS    |
|           |           | 20                   | LCH          | TN         | VL         | -6.17981         | -0.00332              | PASS    |
|           |           |                      |              |            | VN         | -9.91344         | -0.00533              | PASS    |
|           |           |                      |              |            | VH         | -6.68049         | -0.00359              | PASS    |
|           |           |                      | MCH          | TN         | VL         | -2.73228         | -0.00145              | PASS    |
|           |           |                      |              |            | VN         | -1.05858         | -0.00056              | PASS    |
|           |           |                      |              |            | VH         | -2.86102         | -0.00152              | PASS    |
|           |           |                      | HCH          | TN         | VL         | -4.87804         | -0.00257              | PASS    |
|           |           |                      |              |            | VN         | -6.02245         | -0.00317              | PASS    |
|           |           |                      |              |            | VH         | -2.98977         | -0.00157              | PASS    |
|           |           | 1.4                  | LCH          | TN         | VL         | -4.06265         | -0.00220              | PASS    |
|           |           |                      |              |            | VN         | 6.09398          | 0.00329               | PASS    |
|           |           |                      |              |            | VH         | -4.16279         | -0.00225              | PASS    |
|           |           |                      | MCH          | TN         | VL         | -0.04292         | -0.00002              | PASS    |
|           |           |                      |              |            | VN         | 2.46048          | 0.00131               | PASS    |
|           |           |                      |              |            | VH         | -7.73907         | -0.00412              | PASS    |
|           |           |                      | HCH          | TN         | VL         | 7.29561          | 0.00382               | PASS    |
|           |           |                      |              |            | VN         | -3.97682         | -0.00208              | PASS    |
|           |           |                      |              |            | VH         | -1.47343         | -0.00077              | PASS    |
|           |           | 3                    | LCH          | TN         | VL         | -6.40869         | -0.00346              | PASS    |
|           |           |                      |              |            | VN         | -33.94604        | -0.01833              | PASS    |
|           |           |                      |              |            | VH         | -5.95093         | -0.00321              | PASS    |
|           |           |                      | MCH          | TN         | VL         | 1.53065          | 0.00081               | PASS    |
|           |           |                      |              |            | VN         | 1.57356          | 0.00084               | PASS    |
|           |           |                      |              |            | VH         | -1.54495         | -0.00082              | PASS    |
|           |           |                      | HCH          | TN         | VL         | -0.31471         | -0.00016              | PASS    |
|           |           |                      |              |            |            |                  |                       |         |

| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Temp. | Test Volt. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|------------|------------------|-----------------------|---------|
|           |           |                      |              |            | VN         | -13.51833        | -0.00708              | PASS    |
|           |           |                      |              |            | VH         | -0.88692         | -0.00046              | PASS    |
|           |           | 5                    | LCH          | TN         | VL         | -0.88692         | -0.00048              | PASS    |
|           |           |                      |              |            | VN         | -11.87325        | -0.00641              | PASS    |
|           |           |                      |              |            | VH         | -5.87940         | -0.00317              | PASS    |
|           |           |                      | MCH          | TN         | VL         | -0.31471         | -0.00017              | PASS    |
|           |           |                      |              |            | VN         | -5.65052         | -0.00301              | PASS    |
|           |           |                      |              |            | VH         | 1.04427          | 0.00056               | PASS    |
|           |           |                      | HCH          | TN         | VL         | 0.44346          | 0.00023               | PASS    |
|           |           |                      |              |            | VN         | -11.37257        | -0.00596              | PASS    |
|           |           |                      |              |            | VH         | -3.54767         | -0.00186              | PASS    |
|           |           | 10                   | LCH          | TN         | VL         | -3.07560         | -0.00166              | PASS    |
|           |           |                      |              |            | VN         | -8.84056         | -0.00477              | PASS    |
|           |           |                      |              |            | VH         | -5.59330         | -0.00302              | PASS    |
|           |           |                      | MCH          | TN         | VL         | -1.71661         | -0.00091              | PASS    |
|           |           |                      |              |            | VN         | -2.43187         | -0.00129              | PASS    |
|           |           |                      |              |            | VH         | 0.64373          | 0.00034               | PASS    |
|           |           |                      | HCH          | TN         | VL         | -1.13010         | -0.00059              | PASS    |
|           |           |                      |              |            | VN         | -6.52313         | -0.00342              | PASS    |
|           |           |                      |              |            | VH         | -4.70638         | -0.00247              | PASS    |
|           |           | 15                   | LCH          | TN         | VL         | -3.70503         | -0.00199              | PASS    |
|           |           |                      |              |            | VN         | -8.05378         | -0.00434              | PASS    |
|           |           |                      |              |            | VH         | -4.10557         | -0.00221              | PASS    |
|           |           |                      | MCH          | TN         | VL         | 2.76089          | 0.00147               | PASS    |
|           |           |                      |              |            | VN         | -2.36034         | -0.00126              | PASS    |
|           |           |                      |              |            | VH         | -2.27451         | -0.00121              | PASS    |
|           |           |                      | HCH          | TN         | VL         | 0.85831          | 0.00045               | PASS    |
|           |           |                      |              |            | VN         | -4.56333         | -0.00240              | PASS    |
|           |           |                      |              |            | VH         | -0.87261         | -0.00046              | PASS    |
|           |           | 20                   | LCH          | TN         | VL         | -0.17166         | -0.00009              | PASS    |
|           |           |                      |              |            | VN         | -7.28130         | -0.00391              | PASS    |
|           |           |                      |              |            | VH         | -1.43051         | -0.00077              | PASS    |
|           |           |                      | MCH          | TN         | VL         | -2.97546         | -0.00158              | PASS    |
|           |           |                      |              |            | VN         | 0.08583          | 0.00005               | PASS    |
|           |           |                      |              |            | VH         | -1.20163         | -0.00064              | PASS    |
|           |           |                      | HCH          | TN         | VL         | -1.41621         | -0.00075              | PASS    |
|           |           |                      |              |            | VN         | -7.05242         | -0.00371              | PASS    |
|           |           |                      |              |            | VH         | -4.50611         | -0.00237              | PASS    |

### 7.1.2 Frequency Error vs. Temperature:

| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Volt. | Test Temp | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|-----------|------------------|-----------------------|---------|
| Band2     | LTE/TM1   | 1.4                  | LCH          | VN         | -30       | -1.35899         | -0.00073              | PASS    |
|           |           |                      |              |            | -20       | -12.20226        | -0.00659              | PASS    |
|           |           |                      |              |            | -10       | -12.87460        | -0.00696              | PASS    |
|           |           |                      |              |            | 0         | -6.22272         | -0.00336              | PASS    |
|           |           |                      |              |            | 10        | -4.64916         | -0.00251              | PASS    |
|           |           |                      |              |            | 20        | 4.59194          | 0.00248               | PASS    |
|           |           |                      |              |            | 30        | 6.60896          | 0.00357               | PASS    |
|           |           |                      |              |            | 40        | 19.88411         | 0.01074               | PASS    |
|           |           |                      |              |            | 50        | -11.94477        | -0.00645              | PASS    |
|           |           |                      | MCH          | VN         | -30       | 1.44482          | 0.00077               | PASS    |
|           |           |                      |              |            | -20       | -17.66682        | -0.00940              | PASS    |
|           |           |                      |              |            | -10       | -10.47134        | -0.00557              | PASS    |
|           |           |                      |              |            | 0         | -3.46184         | -0.00184              | PASS    |
|           |           |                      |              |            | 10        | 2.28882          | 0.00122               | PASS    |
|           |           |                      |              |            | 20        | -7.10964         | -0.00378              | PASS    |
|           |           |                      |              |            | 30        | 3.89099          | 0.00207               | PASS    |
|           |           |                      |              |            | 40        | 3.60489          | 0.00192               | PASS    |
|           |           |                      |              |            | 50        | -6.59466         | -0.00351              | PASS    |
|           |           |                      | HCH          | VN         | -30       | -9.59873         | -0.00503              | PASS    |
|           |           |                      |              |            | -20       | -11.67297        | -0.00611              | PASS    |
|           |           |                      |              |            | -10       | -12.78877        | -0.00670              | PASS    |
|           |           |                      |              |            | 0         | -0.30041         | -0.00016              | PASS    |
|           |           |                      |              |            | 10        | -2.05994         | -0.00108              | PASS    |
|           |           |                      |              |            | 20        | -6.35147         | -0.00333              | PASS    |
|           |           |                      |              |            | 30        | 3.90530          | 0.00205               | PASS    |
|           |           |                      |              |            | 40        | 45.37582         | 0.02377               | PASS    |
|           |           |                      |              |            | 50        | 4.80652          | 0.00252               | PASS    |
|           |           | 3                    | LCH          | VN         | -30       | -14.92023        | -0.00806              | PASS    |
|           |           |                      |              |            | -20       | -13.41820        | -0.00725              | PASS    |
|           |           |                      |              |            | -10       | -16.57963        | -0.00895              | PASS    |
|           |           |                      |              |            | 0         | -18.59665        | -0.01004              | PASS    |
|           |           |                      |              |            | 10        | -21.70086        | -0.01172              | PASS    |
|           |           |                      |              |            | 20        | -23.20290        | -0.01253              | PASS    |
|           |           |                      |              |            | 30        | -23.93246        | -0.01293              | PASS    |
|           |           |                      |              |            | 40        | -26.85070        | -0.01450              | PASS    |
|           |           |                      |              |            | 50        | -15.44952        | -0.00834              | PASS    |
|           |           |                      | MCH          | VN         | -30       | -6.23703         | -0.00332              | PASS    |



| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Volt. | Test Temp | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|-----------|------------------|-----------------------|---------|
|           |           |                      |              |            | -20       | -7.93934         | -0.00422              | PASS    |
|           |           |                      |              |            | -10       | 0.28610          | 0.00015               | PASS    |
|           |           |                      |              |            | 0         | -4.72069         | -0.00251              | PASS    |
|           |           |                      |              |            | 10        | 2.87533          | 0.00153               | PASS    |
|           |           |                      |              |            | 20        | -4.53472         | -0.00241              | PASS    |
|           |           |                      |              |            | 30        | 10.29968         | 0.00548               | PASS    |
|           |           |                      |              |            | 40        | -0.87261         | -0.00046              | PASS    |
|           |           |                      |              |            | 50        | -1.88827         | -0.00100              | PASS    |
|           |           |                      | HCH          | VN         | -30       | 1.90258          | 0.00100               | PASS    |
|           |           |                      |              |            | -20       | -5.62191         | -0.00295              | PASS    |
|           |           |                      |              |            | -10       | -10.78606        | -0.00565              | PASS    |
|           |           |                      |              |            | 0         | 2.58923          | 0.00136               | PASS    |
|           |           |                      |              |            | 10        | -12.93182        | -0.00678              | PASS    |
|           |           |                      |              |            | 20        | -5.83649         | -0.00306              | PASS    |
|           |           |                      |              |            | 30        | -7.56741         | -0.00397              | PASS    |
|           |           |                      |              |            | 40        | -8.69751         | -0.00456              | PASS    |
|           |           |                      |              |            | 50        | -16.09325        | -0.00843              | PASS    |
|           |           | 5                    | LCH          | VN         | -30       | -13.11779        | -0.00708              | PASS    |
|           |           |                      |              |            | -20       | -34.36089        | -0.01855              | PASS    |
|           |           |                      |              |            | -10       | -35.77709        | -0.01931              | PASS    |
|           |           |                      |              |            | 0         | -13.67569        | -0.00738              | PASS    |
|           |           |                      |              |            | 10        | -13.74722        | -0.00742              | PASS    |
|           |           |                      |              |            | 20        | -28.61023        | -0.01544              | PASS    |
|           |           |                      |              |            | 30        | -18.81123        | -0.01015              | PASS    |
|           |           |                      |              |            | 40        | -39.65378        | -0.02141              | PASS    |
|           |           |                      |              |            | 50        | -13.90457        | -0.00751              | PASS    |
|           |           |                      | MCH          | VN         | -30       | -0.37193         | -0.00020              | PASS    |
|           |           |                      |              |            | -20       | -1.33038         | -0.00071              | PASS    |
|           |           |                      |              |            | -10       | -0.80109         | -0.00043              | PASS    |
|           |           |                      |              |            | 0         | -8.11100         | -0.00431              | PASS    |
|           |           |                      |              |            | 10        | 3.63350          | 0.00193               | PASS    |
|           |           |                      |              |            | 20        | -2.21729         | -0.00118              | PASS    |
|           |           |                      |              |            | 30        | -6.26564         | -0.00333              | PASS    |
|           |           |                      |              |            | 40        | -0.74387         | -0.00040              | PASS    |
|           |           |                      |              |            | 50        | -3.08990         | -0.00164              | PASS    |
|           |           |                      | HCH          | VN         | -30       | -22.28737        | -0.01168              | PASS    |
|           |           |                      |              |            | -20       | -9.14097         | -0.00479              | PASS    |
|           |           |                      |              |            | -10       | -36.49235        | -0.01913              | PASS    |
|           |           |                      |              |            | 0         | -8.82626         | -0.00463              | PASS    |

| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Volt. | Test Temp | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|-----------|------------------|-----------------------|---------|
|           |           |                      |              |            | 10        | -10.38551        | -0.00544              | PASS    |
|           |           |                      |              |            | 20        | -12.96043        | -0.00679              | PASS    |
|           |           |                      |              |            | 30        | -9.09805         | -0.00477              | PASS    |
|           |           |                      |              |            | 40        | -31.44264        | -0.01648              | PASS    |
|           |           |                      |              |            | 50        | -9.71317         | -0.00509              | PASS    |
|           |           | 10                   | LCH          | VN         | -30       | -9.06944         | -0.00489              | PASS    |
|           |           |                      |              |            | -20       | -11.98769        | -0.00646              | PASS    |
|           |           |                      |              |            | -10       | -9.74178         | -0.00525              | PASS    |
|           |           |                      |              |            | 0         | -12.21657        | -0.00659              | PASS    |
|           |           |                      |              |            | 10        | -11.47270        | -0.00618              | PASS    |
|           |           |                      | MCH          | VN         | 20        | -10.75745        | -0.00580              | PASS    |
|           |           |                      |              |            | 30        | -7.79629         | -0.00420              | PASS    |
|           |           |                      |              |            | 40        | -10.15663        | -0.00548              | PASS    |
|           |           |                      |              |            | 50        | -11.41548        | -0.00615              | PASS    |
|           |           |                      |              |            | -30       | -4.22001         | -0.00224              | PASS    |
|           |           |                      |              |            | -20       | 0.80109          | 0.00043               | PASS    |
|           |           |                      |              |            | -10       | 0.32902          | 0.00018               | PASS    |
|           |           |                      |              |            | 0         | -1.98841         | -0.00106              | PASS    |
|           |           |                      |              |            | 10        | -3.33309         | -0.00177              | PASS    |
|           |           |                      |              |            | 20        | 0.34332          | 0.00018               | PASS    |
|           |           |                      |              |            | 30        | -6.05106         | -0.00322              | PASS    |
|           |           |                      |              |            | 40        | 2.77519          | 0.00148               | PASS    |
|           |           |                      |              |            | 50        | -2.44618         | -0.00130              | PASS    |
|           |           |                      | HCH          | VN         | -30       | -2.00272         | -0.00105              | PASS    |
|           |           |                      |              |            | -20       | -7.15256         | -0.00375              | PASS    |
|           |           |                      |              |            | -10       | -5.10693         | -0.00268              | PASS    |
|           |           |                      |              |            | 0         | 76.41792         | 0.04011               | PASS    |
|           |           |                      |              |            | 10        | -3.63350         | -0.00191              | PASS    |
|           |           |                      |              |            | 20        | -7.09534         | -0.00372              | PASS    |
|           |           |                      |              |            | 30        | -4.24862         | -0.00223              | PASS    |
|           |           |                      |              |            | 40        | -4.07696         | -0.00214              | PASS    |
|           |           |                      |              |            | 50        | -6.86646         | -0.00360              | PASS    |
|           |           | 15                   | LCH          | VN         | -30       | -10.67162        | -0.00575              | PASS    |
|           |           |                      |              |            | -20       | -12.03060        | -0.00648              | PASS    |
|           |           |                      |              |            | -10       | -11.61575        | -0.00625              | PASS    |
|           |           |                      |              |            | 0         | -10.02789        | -0.00540              | PASS    |
|           |           |                      |              |            | 10        | -9.48429         | -0.00511              | PASS    |
|           |           |                      |              |            | 20        | -11.21521        | -0.00604              | PASS    |
|           |           |                      |              |            | 30        | -10.29968        | -0.00554              | PASS    |



| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Volt. | Test Temp | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|-----------|------------------|-----------------------|---------|
|           |           |                      |              |            | 40        | -13.16071        | -0.00709              | PASS    |
|           |           |                      |              |            | 50        | -10.44273        | -0.00562              | PASS    |
|           |           |                      | MCH          | VN         | -30       | -2.14577         | -0.00114              | PASS    |
|           |           |                      |              |            | -20       | 0.47207          | 0.00025               | PASS    |
|           |           |                      |              |            | -10       | -4.20570         | -0.00221              | PASS    |
|           |           |                      |              |            | 0         | -2.61784         | -0.00139              | PASS    |
|           |           |                      |              |            | 10        | -1.87397         | -0.00100              | PASS    |
|           |           |                      |              |            | 20        | -2.38895         | -0.00127              | PASS    |
|           |           |                      |              |            | 30        | -1.80244         | -0.00096              | PASS    |
|           |           |                      |              |            | 40        | -0.74387         | -0.00040              | PASS    |
|           |           |                      |              |            | 50        | 0.05722          | 0.00003               | PASS    |
|           |           |                      | HCH          | VN         | -30       | -3.90530         | -0.00205              | PASS    |
|           |           |                      |              |            | -20       | -5.04971         | -0.00265              | PASS    |
|           |           |                      |              |            | -10       | -4.20570         | -0.00221              | PASS    |
|           |           |                      |              |            | 0         | -5.17845         | -0.00272              | PASS    |
|           |           |                      |              |            | 10        | -6.93798         | -0.00365              | PASS    |
|           |           |                      |              |            | 20        | -4.39167         | -0.00231              | PASS    |
|           |           |                      |              |            | 30        | -4.84943         | -0.00255              | PASS    |
|           |           |                      |              |            | 40        | -6.59466         | -0.00347              | PASS    |
|           |           |                      |              |            | 50        | -5.37872         | -0.00283              | PASS    |
|           |           | 20                   | LCH          | VN         | -30       | -13.66138        | -0.00734              | PASS    |
|           |           |                      |              |            | -20       | -10.04219        | -0.00540              | PASS    |
|           |           |                      |              |            | -10       | -13.91888        | -0.00748              | PASS    |
|           |           |                      |              |            | 0         | -9.99928         | -0.00538              | PASS    |
|           |           |                      |              |            | 10        | -12.05921        | -0.00648              | PASS    |
|           |           |                      |              |            | 20        | -9.91344         | -0.00533              | PASS    |
|           |           |                      |              |            | 30        | -11.27243        | -0.00606              | PASS    |
|           |           |                      |              |            | 40        | -11.01494        | -0.00592              | PASS    |
|           |           |                      |              |            | 50        | -12.18796        | -0.00655              | PASS    |
|           |           |                      | MCH          | VN         | -30       | -3.43323         | -0.00183              | PASS    |
|           |           |                      |              |            | -20       | 0.44346          | 0.00024               | PASS    |
|           |           |                      |              |            | -10       | -0.92983         | -0.00049              | PASS    |
|           |           |                      |              |            | 0         | -0.20027         | -0.00011              | PASS    |
|           |           |                      |              |            | 10        | -0.30041         | -0.00016              | PASS    |
|           |           |                      |              |            | 20        | -1.05858         | -0.00056              | PASS    |
|           |           |                      |              |            | 30        | -2.91824         | -0.00155              | PASS    |
|           |           |                      |              |            | 40        | -1.44482         | -0.00077              | PASS    |
|           |           |                      |              |            | 50        | -1.21593         | -0.00065              | PASS    |
|           |           |                      | HCH          | VN         | -30       | -5.72205         | -0.00301              | PASS    |



| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Volt. | Test Temp | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|-----------|------------------|-----------------------|---------|
|           |           |                      |              |            | -20       | -7.02381         | -0.00370              | PASS    |
|           |           |                      |              |            | -10       | -8.19683         | -0.00431              | PASS    |
|           |           |                      |              |            | 0         | -5.76496         | -0.00303              | PASS    |
|           |           |                      |              |            | 10        | -6.60896         | -0.00348              | PASS    |
|           |           |                      |              |            | 20        | -6.02245         | -0.00317              | PASS    |
|           |           |                      |              |            | 30        | -5.60761         | -0.00295              | PASS    |
|           |           |                      |              |            | 40        | -6.62327         | -0.00349              | PASS    |
|           |           |                      |              |            | 50        | -8.13961         | -0.00428              | PASS    |
|           | LTE/TM2   | 1.4                  | LCH          | VN         | -30       | -1.98841         | -0.00107              | PASS    |
|           |           |                      |              |            | -20       | 0.88692          | 0.00048               | PASS    |
|           |           |                      |              |            | -10       | -0.54359         | -0.00029              | PASS    |
|           |           |                      |              |            | 0         | -8.92639         | -0.00482              | PASS    |
|           |           |                      |              |            | 10        | 1.28746          | 0.00070               | PASS    |
|           |           |                      |              |            | 20        | 6.09398          | 0.00329               | PASS    |
|           |           |                      |              |            | 30        | 10.48565         | 0.00567               | PASS    |
|           |           |                      |              |            | 40        | -0.60081         | -0.00032              | PASS    |
|           |           |                      |              |            | 50        | -7.22408         | -0.00390              | PASS    |
|           |           |                      | MCH          | VN         | -30       | -12.88891        | -0.00686              | PASS    |
|           |           |                      |              |            | -20       | -3.77655         | -0.00201              | PASS    |
|           |           |                      |              |            | -10       | -5.97954         | -0.00318              | PASS    |
|           |           |                      |              |            | 0         | -0.04292         | -0.00002              | PASS    |
|           |           |                      |              |            | 10        | -13.41820        | -0.00714              | PASS    |
|           |           |                      |              |            | 20        | 2.46048          | 0.00131               | PASS    |
|           |           |                      |              |            | 30        | 7.78198          | 0.00414               | PASS    |
|           |           |                      |              |            | 40        | -10.71453        | -0.00570              | PASS    |
|           |           |                      |              |            | 50        | 4.23431          | 0.00225               | PASS    |
|           |           |                      | HCH          | VN         | -30       | 7.95364          | 0.00417               | PASS    |
|           |           |                      |              |            | -20       | 0.21458          | 0.00011               | PASS    |
|           |           |                      |              |            | -10       | 8.94070          | 0.00468               | PASS    |
|           |           |                      |              |            | 0         | -4.79221         | -0.00251              | PASS    |
|           |           |                      |              |            | 10        | -13.66138        | -0.00716              | PASS    |
|           |           |                      |              |            | 20        | -3.97682         | -0.00208              | PASS    |
|           |           |                      |              |            | 30        | 22.47334         | 0.01177               | PASS    |
|           |           |                      |              |            | 40        | 6.48022          | 0.00339               | PASS    |
|           |           |                      |              |            | 50        | 20.01286         | 0.01048               | PASS    |
|           |           | 3                    | LCH          | VN         | -30       | -9.97067         | -0.00539              | PASS    |
|           |           |                      |              |            | -20       | -32.62997        | -0.01762              | PASS    |
|           |           |                      |              |            | -10       | -36.24916        | -0.01958              | PASS    |
|           |           |                      |              |            | 0         | -23.96107        | -0.01294              | PASS    |



| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Volt. | Test Temp | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|-----------|------------------|-----------------------|---------|
|           |           |                      |              |            | 10        | -20.85686        | -0.01126              | PASS    |
|           |           |                      |              |            | 20        | -33.94604        | -0.01833              | PASS    |
|           |           |                      |              |            | 30        | -17.92431        | -0.00968              | PASS    |
|           |           |                      |              |            | 40        | -9.82761         | -0.00531              | PASS    |
|           |           |                      |              |            | 50        | -16.56532        | -0.00895              | PASS    |
|           |           |                      | MCH          | VN         | -30       | -0.84400         | -0.00045              | PASS    |
|           |           |                      |              |            | -20       | -0.88692         | -0.00047              | PASS    |
|           |           |                      |              |            | -10       | -1.08719         | -0.00058              | PASS    |
|           |           |                      |              |            | 0         | -5.43594         | -0.00289              | PASS    |
|           |           |                      |              |            | 10        | -1.40190         | -0.00075              | PASS    |
|           |           |                      |              |            | 20        | 1.57356          | 0.00084               | PASS    |
|           |           |                      |              |            | 30        | -4.42028         | -0.00235              | PASS    |
|           |           |                      |              |            | 40        | 0.78678          | 0.00042               | PASS    |
|           |           |                      |              |            | 50        | -3.91960         | -0.00208              | PASS    |
|           |           |                      | HCH          | VN         | -30       | -9.11236         | -0.00477              | PASS    |
|           |           |                      |              |            | -20       | -10.39982        | -0.00545              | PASS    |
|           |           |                      |              |            | -10       | -4.86374         | -0.00255              | PASS    |
|           |           |                      |              |            | 0         | 5.45025          | 0.00286               | PASS    |
|           |           |                      |              |            | 10        | 2.54631          | 0.00133               | PASS    |
|           |           |                      |              |            | 20        | -13.51833        | -0.00708              | PASS    |
|           |           |                      |              |            | 30        | -4.42028         | -0.00232              | PASS    |
|           |           |                      |              |            | 40        | -4.01974         | -0.00211              | PASS    |
|           |           |                      |              |            | 50        | -6.23703         | -0.00327              | PASS    |
|           |           | 5                    | LCH          | VN         | -30       | -12.64572        | -0.00683              | PASS    |
|           |           |                      |              |            | -20       | -31.60000        | -0.01706              | PASS    |
|           |           |                      |              |            | -10       | -11.10077        | -0.00599              | PASS    |
|           |           |                      |              |            | 0         | -11.73019        | -0.00633              | PASS    |
|           |           |                      |              |            | 10        | -12.11643        | -0.00654              | PASS    |
|           |           |                      |              |            | 20        | -11.87325        | -0.00641              | PASS    |
|           |           |                      |              |            | 30        | -8.45432         | -0.00456              | PASS    |
|           |           |                      |              |            | 40        | -10.92911        | -0.00590              | PASS    |
|           |           |                      |              |            | 50        | -12.73155        | -0.00687              | PASS    |
|           |           |                      | MCH          | VN         | -30       | 0.37193          | 0.00020               | PASS    |
|           |           |                      |              |            | -20       | -2.17438         | -0.00116              | PASS    |
|           |           |                      |              |            | -10       | 1.55926          | 0.00083               | PASS    |
|           |           |                      |              |            | 0         | -1.70231         | -0.00091              | PASS    |
|           |           |                      |              |            | 10        | 0.38624          | 0.00021               | PASS    |
|           |           |                      |              |            | 20        | -5.65052         | -0.00301              | PASS    |
|           |           |                      |              |            | 30        | -2.13146         | -0.00113              | PASS    |



| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Volt. | Test Temp | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|-----------|------------------|-----------------------|---------|
|           |           |                      |              |            | 40        | -1.74522         | -0.00093              | PASS    |
|           |           |                      |              |            | 50        | -1.27316         | -0.00068              | PASS    |
|           |           |                      | HCH          | VN         | -30       | -9.34124         | -0.00490              | PASS    |
|           |           |                      |              |            | -20       | -25.26283        | -0.01324              | PASS    |
|           |           |                      |              |            | -10       | -34.31797        | -0.01799              | PASS    |
|           |           |                      |              |            | 0         | -22.63069        | -0.01186              | PASS    |
|           |           |                      |              |            | 10        | -22.50195        | -0.01180              | PASS    |
|           |           |                      |              |            | 20        | -11.37257        | -0.00596              | PASS    |
|           |           |                      |              |            | 30        | -11.54423        | -0.00605              | PASS    |
|           |           |                      |              |            | 40        | -24.84798        | -0.01303              | PASS    |
|           |           |                      |              |            | 50        | -9.98497         | -0.00523              | PASS    |
|           |           | 10                   | LCH          | VN         | -30       | -10.42843        | -0.00562              | PASS    |
|           |           |                      |              |            | -20       | -8.51154         | -0.00459              | PASS    |
|           |           |                      |              |            | -10       | -7.55310         | -0.00407              | PASS    |
|           |           |                      |              |            | 0         | -7.99656         | -0.00431              | PASS    |
|           |           |                      |              |            | 10        | -8.66890         | -0.00467              | PASS    |
|           |           |                      |              |            | 20        | -8.84056         | -0.00477              | PASS    |
|           |           |                      |              |            | 30        | -9.26971         | -0.00500              | PASS    |
|           |           |                      |              |            | 40        | -9.25541         | -0.00499              | PASS    |
|           |           |                      |              |            | 50        | -7.98225         | -0.00430              | PASS    |
|           |           |                      | MCH          | VN         | -30       | -0.40054         | -0.00021              | PASS    |
|           |           |                      |              |            | -20       | -0.48637         | -0.00026              | PASS    |
|           |           |                      |              |            | -10       | -3.36170         | -0.00179              | PASS    |
|           |           |                      |              |            | 0         | -5.83649         | -0.00310              | PASS    |
|           |           |                      |              |            | 10        | -1.00136         | -0.00053              | PASS    |
|           |           |                      |              |            | 20        | -2.43187         | -0.00129              | PASS    |
|           |           |                      |              |            | 30        | 1.18732          | 0.00063               | PASS    |
|           |           |                      |              |            | 40        | 1.51634          | 0.00081               | PASS    |
|           |           |                      |              |            | 50        | -3.31879         | -0.00177              | PASS    |
|           |           |                      | HCH          | VN         | -30       | -4.60625         | -0.00242              | PASS    |
|           |           |                      |              |            | -20       | -9.81331         | -0.00515              | PASS    |
|           |           |                      |              |            | -10       | -6.66618         | -0.00350              | PASS    |
|           |           |                      |              |            | 0         | -7.08103         | -0.00372              | PASS    |
|           |           |                      |              |            | 10        | -6.43730         | -0.00338              | PASS    |
|           |           |                      |              |            | 20        | -6.52313         | -0.00342              | PASS    |
|           |           |                      |              |            | 30        | -6.25134         | -0.00328              | PASS    |
|           |           |                      |              |            | 40        | -8.21114         | -0.00431              | PASS    |
|           |           |                      |              |            | 50        | -6.83784         | -0.00359              | PASS    |
|           |           | 15                   | LCH          | VN         | -30       | -7.09534         | -0.00382              | PASS    |



| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Volt. | Test Temp | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|-----------|------------------|-----------------------|---------|
|           |           |                      |              |            | -20       | -7.81059         | -0.00420              | PASS    |
|           |           |                      |              |            | -10       | -8.36849         | -0.00451              | PASS    |
|           |           |                      |              |            | 0         | -7.00951         | -0.00377              | PASS    |
|           |           |                      |              |            | 10        | -7.53880         | -0.00406              | PASS    |
|           |           |                      |              |            | 20        | -8.05378         | -0.00434              | PASS    |
|           |           |                      |              |            | 30        | -8.03947         | -0.00433              | PASS    |
|           |           |                      |              |            | 40        | -7.93934         | -0.00427              | PASS    |
|           |           |                      |              |            | 50        | -7.86781         | -0.00424              | PASS    |
|           |           |                      | MCH          | VN         | -30       | -1.04427         | -0.00056              | PASS    |
|           |           |                      |              |            | -20       | 0.55790          | 0.55790               | PASS    |
|           |           |                      |              |            | -10       | -9.36985         | -0.00504              | PASS    |
|           |           |                      |              |            | 0         | -1.45912         | -0.00078              | PASS    |
|           |           |                      |              |            | 10        | 0.14305          | 0.00008               | PASS    |
|           |           |                      |              |            | 20        | -2.36034         | -0.00126              | PASS    |
|           |           |                      |              |            | 30        | -1.41621         | -0.00075              | PASS    |
|           |           |                      |              |            | 40        | -0.42915         | -0.00023              | PASS    |
|           |           |                      |              |            | 50        | -3.08990         | -0.00164              | PASS    |
|           |           |                      | HCH          | VN         | -30       | -3.53336         | -0.00186              | PASS    |
|           |           |                      |              |            | -20       | -6.52313         | -0.00343              | PASS    |
|           |           |                      |              |            | -10       | -4.33445         | -0.00228              | PASS    |
|           |           |                      |              |            | 0         | -3.71933         | -0.00195              | PASS    |
|           |           |                      |              |            | 10        | -4.60625         | -0.00242              | PASS    |
|           |           |                      |              |            | 20        | -4.56333         | -0.00240              | PASS    |
|           |           |                      |              |            | 30        | -4.63486         | -0.00244              | PASS    |
|           |           |                      |              |            | 40        | -6.07967         | -0.00320              | PASS    |
|           |           |                      |              |            | 50        | -3.57628         | -0.00188              | PASS    |
|           |           | 20                   | LCH          | VN         | -30       | -5.52177         | -0.00297              | PASS    |
|           |           |                      |              |            | -20       | -7.86781         | -0.00423              | PASS    |
|           |           |                      |              |            | -10       | -9.36985         | -0.00504              | PASS    |
|           |           |                      |              |            | 0         | -7.85351         | -0.00422              | PASS    |
|           |           |                      |              |            | 10        | -6.07967         | -0.00327              | PASS    |
|           |           |                      |              |            | 20        | -7.28130         | -0.00391              | PASS    |
|           |           |                      |              |            | 30        | -7.53880         | -0.00405              | PASS    |
|           |           |                      |              |            | 40        | -9.22680         | -0.00496              | PASS    |
|           |           |                      |              |            | 50        | -5.12123         | -0.00275              | PASS    |
|           |           |                      | MCH          | VN         | -30       | -1.64509         | -0.00088              | PASS    |
|           |           |                      |              |            | -20       | -3.69072         | -0.00196              | PASS    |
|           |           |                      |              |            | -10       | -4.72069         | -0.00251              | PASS    |
|           |           |                      |              |            | 0         | -2.81811         | -0.00150              | PASS    |



| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Volt. | Test Temp | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|-----------|------------------|-----------------------|---------|
|           |           |                      |              |            | 10        | -2.13146         | -0.00113              | PASS    |
|           |           |                      |              |            | 20        | 0.08583          | 0.00005               | PASS    |
|           |           |                      |              |            | 30        | 0.44346          | 0.00024               | PASS    |
|           |           |                      |              |            | 40        | -2.13146         | -0.00113              | PASS    |
|           |           |                      |              |            | 50        | -1.27316         | -0.00068              | PASS    |
|           |           |                      | HCH          | VN         | -30       | -5.69344         | -0.00300              | PASS    |
|           |           |                      |              |            | -20       | -8.15391         | -0.00429              | PASS    |
|           |           |                      |              |            | -10       | -6.85215         | -0.00361              | PASS    |
|           |           |                      |              |            | 0         | -6.62327         | -0.00349              | PASS    |
|           |           |                      |              |            | 10        | -6.09398         | -0.00321              | PASS    |
|           |           |                      |              |            | 20        | -7.05242         | -0.00371              | PASS    |
|           |           |                      |              |            | 30        | -6.58035         | -0.00346              | PASS    |
|           |           |                      |              |            | 40        | -6.33717         | -0.00334              | PASS    |
|           |           |                      |              |            | 50        | -4.89235         | -0.00257              | PASS    |

END