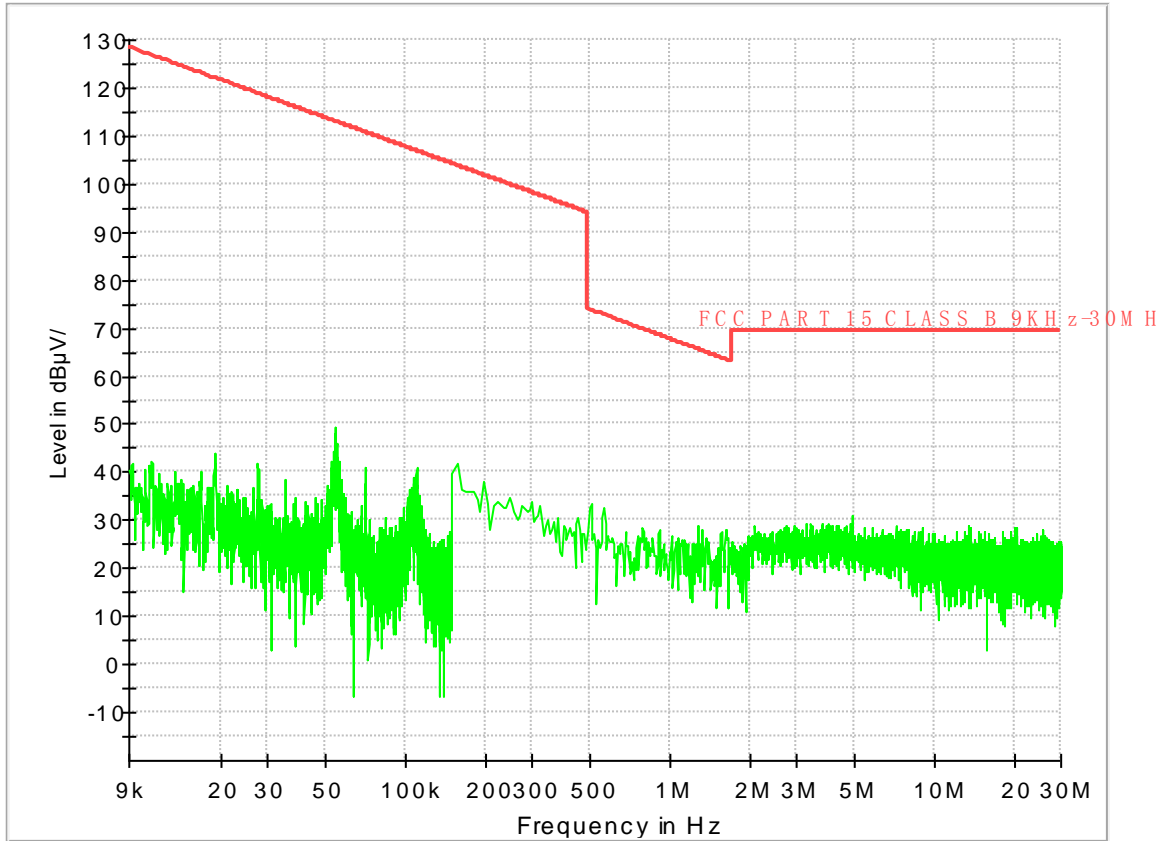
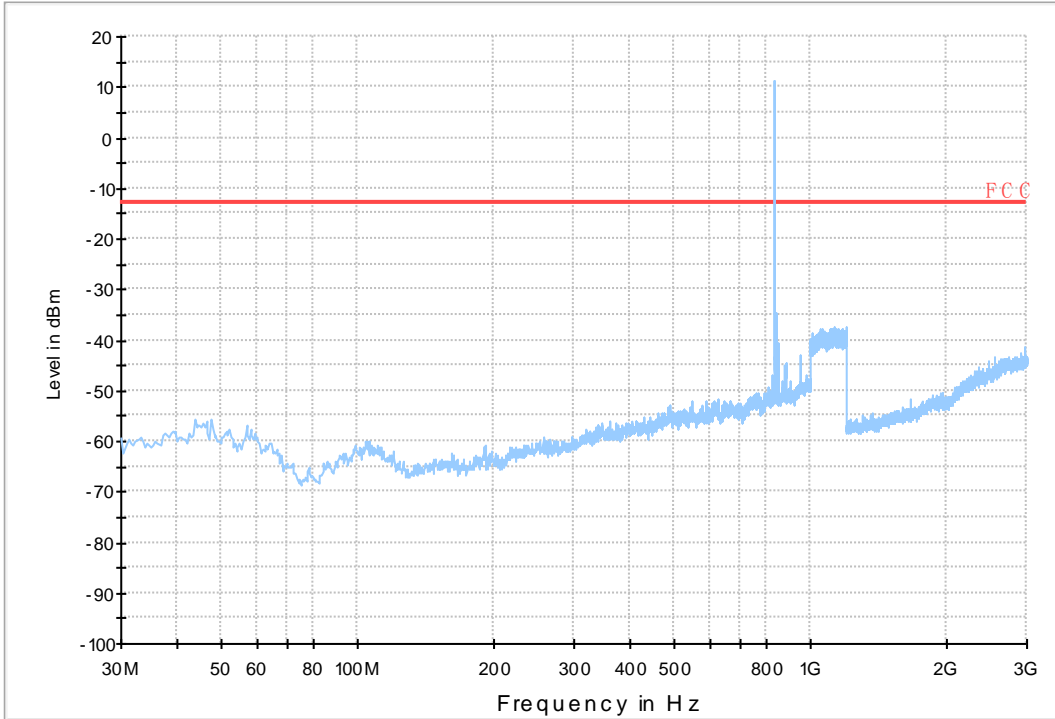


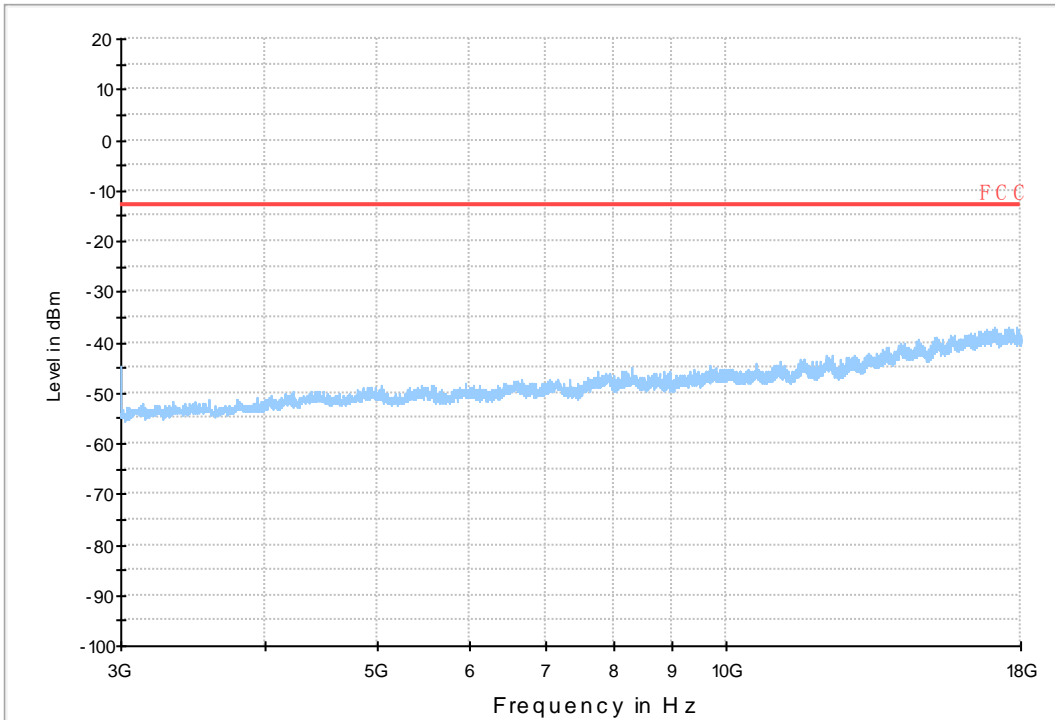
## 7.1.1.3 Test Bandwidth = 10



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



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



## 8Appendix\_H: Frequency Stability

### 8.1 For LTE

#### 8.1.1 Frequency Error vs. Voltage:

| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Temp. | Test Volt. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|------------|------------------|-----------------------|---------|
| BAND5     | LTE/TM1   | 1.4                  | LCH          | TN         | VL         | -11.54           | -0.01399              | PASS    |
|           |           |                      |              |            | VN         | -9.70            | -0.01176              | PASS    |
|           |           |                      |              |            | VH         | -7.81            | -0.00947              | PASS    |
|           |           |                      | MCH          | TN         | VL         | -10.63           | -0.01271              | PASS    |
|           |           |                      |              |            | VN         | -4.68            | -0.00559              | PASS    |
|           |           |                      |              |            | VH         | -6.35            | -0.00759              | PASS    |
|           |           |                      | HCH          | TN         | VL         | -13.16           | -0.01551              | PASS    |
|           |           |                      |              |            | VN         | -8.30            | -0.00978              | PASS    |
|           |           |                      |              |            | VH         | -1.16            | -0.00137              | PASS    |
|           |           | 3                    | LCH          | TN         | VL         | -2.36            | -0.00286              | PASS    |
|           |           |                      |              |            | VN         | 0.00             | 0                     | PASS    |
|           |           |                      |              |            | VH         | -8.77            | -0.01062              | PASS    |
|           |           |                      | MCH          | TN         | VL         | -6.88            | -0.00822              | PASS    |
|           |           |                      |              |            | VN         | -9.73            | -0.01163              | PASS    |
|           |           |                      |              |            | VH         | 0.09             | 0.00011               | PASS    |
|           |           |                      | HCH          | TN         | VL         | -7.15            | -0.00844              | PASS    |
|           |           |                      |              |            | VN         | -6.95            | -0.0082               | PASS    |
|           |           |                      |              |            | VH         | -9.90            | -0.01168              | PASS    |
|           |           | 5                    | LCH          | TN         | VL         | -4.68            | -0.00566              | PASS    |
|           |           |                      |              |            | VN         | -7.93            | -0.00959              | PASS    |
|           |           |                      |              |            | VH         | -8.83            | -0.01068              | PASS    |
|           |           |                      | MCH          | TN         | VL         | -2.75            | -0.00329              | PASS    |
|           |           |                      |              |            | VN         | -2.23            | -0.00267              | PASS    |
|           |           |                      |              |            | VH         | -1.96            | -0.00234              | PASS    |
|           |           |                      | HCH          | TN         | VL         | -8.45            | -0.00998              | PASS    |
|           |           |                      |              |            | VN         | -4.59            | -0.00542              | PASS    |
|           |           |                      |              |            | VH         | -4.18            | -0.00494              | PASS    |
| 10        | LCH       | TN                   | VL           | -13.73     | -0.01656   | PASS             |                       |         |

| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Temp. | Test Volt. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |          |      |
|-----------|-----------|----------------------|--------------|------------|------------|------------------|-----------------------|---------|----------|------|
|           |           |                      |              |            | VN         | -9.97            | -0.01203              | PASS    |          |      |
|           |           |                      |              |            | VH         | -9.88            | -0.01192              | PASS    |          |      |
|           |           |                      |              |            | MCH        | TN               | VL                    | -7.45   | -0.00891 | PASS |
|           |           |                      |              |            |            |                  | VN                    | -9.33   | -0.01115 | PASS |
|           |           |                      |              |            | VH         |                  | VN                    | -5.99   | -0.00716 | PASS |
|           |           |                      |              |            |            |                  | VH                    | -5.99   | -0.00716 | PASS |
|           |           |                      | HCH          | TN         | VL         | -6.55            | -0.00776              | PASS    |          |      |
|           |           |                      |              |            | VN         | -4.55            | -0.00539              | PASS    |          |      |
|           |           |                      |              |            | VH         | -3.91            | -0.00463              | PASS    |          |      |
|           |           |                      |              |            | LCH        | TN               | VL                    | 2.45    | 0.00297  | PASS |
|           |           |                      |              |            |            |                  | VN                    | -7.12   | -0.00863 | PASS |
|           |           |                      |              |            |            |                  | VH                    | -7.28   | -0.00883 | PASS |
|           | MCH       | TN                   | VL           | -8.87      | -0.0106    | PASS             |                       |         |          |      |
|           |           |                      | VN           | -3.69      | -0.00441   | PASS             |                       |         |          |      |
|           |           |                      | VH           | -10.17     | -0.01216   | PASS             |                       |         |          |      |
|           |           |                      | HCH          | TN         | VL         | -8.21            | -0.00968              | PASS    |          |      |
|           |           |                      |              |            | VN         | -2.46            | -0.0029               | PASS    |          |      |
|           |           |                      |              |            | VH         | -7.77            | -0.00916              | PASS    |          |      |
|           | 3         | LCH                  | TN           | VL         | -7.10      | -0.0086          | PASS                  |         |          |      |
|           |           |                      |              | VN         | -9.26      | -0.01122         | PASS                  |         |          |      |
|           |           |                      |              | VH         | -9.94      | -0.01204         | PASS                  |         |          |      |
|           |           | MCH                  | TN           | VL         | -1.87      | -0.00224         | PASS                  |         |          |      |
|           |           |                      |              | VN         | -5.52      | -0.0066          | PASS                  |         |          |      |
|           |           |                      |              | VH         | -4.72      | -0.00564         | PASS                  |         |          |      |
|           |           | HCH                  | TN           | VL         | -8.78      | -0.01036         | PASS                  |         |          |      |
|           |           |                      |              | VN         | -11.62     | -0.01371         | PASS                  |         |          |      |
|           |           |                      |              | VH         | -4.05      | -0.00478         | PASS                  |         |          |      |
|           | 5         | LCH                  | TN           | VL         | -9.57      | -0.01158         | PASS                  |         |          |      |
|           |           |                      |              | VN         | -6.87      | -0.00831         | PASS                  |         |          |      |
|           |           |                      |              | VH         | -2.98      | -0.00361         | PASS                  |         |          |      |
|           |           | MCH                  | TN           | VL         | -7.42      | -0.00887         | PASS                  |         |          |      |
|           |           |                      |              | VN         | -6.01      | -0.00718         | PASS                  |         |          |      |
|           |           |                      |              | VH         | -7.08      | -0.00846         | PASS                  |         |          |      |
|           |           | HCH                  | TN           | VL         | -7.94      | -0.00938         | PASS                  |         |          |      |
|           |           |                      |              | VN         | -6.27      | -0.00741         | PASS                  |         |          |      |
|           |           |                      |              | VH         | -6.07      | -0.00717         | PASS                  |         |          |      |
|           | 10        | LCH                  | TN           | VL         | -8.73      | -0.01053         | PASS                  |         |          |      |
|           |           |                      |              | VN         | -3.16      | -0.00381         | PASS                  |         |          |      |
|           |           |                      |              | VH         | -8.84      | -0.01066         | PASS                  |         |          |      |
|           |           | MCH                  | TN           | VL         | -9.20      | -0.011           | PASS                  |         |          |      |

| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Temp. | Test Volt. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|------------|------------------|-----------------------|---------|
|           |           |                      |              |            | VN         | -2.36            | -0.00282              | PASS    |
|           |           |                      |              |            | VH         | -3.13            | -0.00374              | PASS    |
|           |           |                      | HCH          | TN         | VL         | -7.12            | -0.00844              | PASS    |
|           |           |                      |              |            | VN         | -4.22            | -0.005                | PASS    |
|           |           |                      |              |            | VH         | -6.44            | -0.00763              | 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 |
|-----------|-----------|----------------------|--------------|------------|------------|------------------|-----------------------|---------|
| BAND5     | LTE/TM1   | 1.4                  | LCH          | VN         | -30        | -3.05            | -0.0037               | PASS    |
|           |           |                      |              |            | -20        | 0.54             | 0.00065               | PASS    |
|           |           |                      |              |            | -10        | -3.93            | -0.00477              | PASS    |
|           |           |                      |              |            | 0          | -12.04           | -0.0146               | PASS    |
|           |           |                      |              |            | 10         | -4.51            | -0.00547              | PASS    |
|           |           |                      |              |            | 20         | -5.68            | -0.00689              | PASS    |
|           |           |                      |              |            | 30         | -4.55            | -0.00552              | PASS    |
|           |           |                      |              |            | 40         | -9.01            | -0.01093              | PASS    |
|           |           |                      | 50           | -3.92      | -0.00475   | PASS             |                       |         |
|           |           |                      | MCH          | VN         | -30        | -10.29           | -0.0123               | PASS    |
|           |           |                      |              |            | -20        | -8.70            | -0.0104               | PASS    |
|           |           |                      |              |            | -10        | -7.07            | -0.00845              | PASS    |
|           |           |                      |              |            | 0          | -5.56            | -0.00665              | PASS    |
|           |           |                      |              |            | 10         | -7.55            | -0.00903              | PASS    |
|           |           |                      |              |            | 20         | -10.29           | -0.0123               | PASS    |
|           |           |                      |              |            | 30         | -6.69            | -0.008                | PASS    |
|           |           |                      |              |            | 40         | -3.00            | -0.00359              | PASS    |
|           |           |                      | 50           | -10.03     | -0.01199   | PASS             |                       |         |
|           |           |                      | HCH          | VN         | -30        | 0.44             | 0.00052               | PASS    |
|           |           |                      |              |            | -20        | -13.06           | -0.0154               | PASS    |
|           |           |                      |              |            | -10        | -10.81           | -0.01274              | PASS    |
|           |           |                      |              |            | 0          | -6.44            | -0.00759              | PASS    |
|           |           |                      |              |            | 10         | -7.05            | -0.00831              | PASS    |
|           |           |                      |              |            | 20         | 0.23             | 0.00027               | PASS    |
|           |           | 30                   |              |            | -4.16      | -0.0049          | PASS                  |         |
|           |           | 40                   |              |            | -5.75      | -0.00678         | PASS                  |         |
|           |           | 50                   | -14.68       | -0.01731   | PASS       |                  |                       |         |
| 3         | LCH       | VN                   | -30          | -8.18      | -0.00991   | PASS             |                       |         |

| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Volt. | Test Temp. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict  |          |
|-----------|-----------|----------------------|--------------|------------|------------|------------------|-----------------------|----------|----------|
|           |           | 5                    |              |            | -20        | -8.07            | -0.00978              | PASS     |          |
|           |           |                      |              |            | -10        | -10.83           | -0.01312              | PASS     |          |
|           |           |                      |              |            | 0          | -5.82            | -0.00705              | PASS     |          |
|           |           |                      |              |            | 10         | -5.35            | -0.00648              | PASS     |          |
|           |           |                      |              |            | 20         | -6.84            | -0.00829              | PASS     |          |
|           |           |                      |              |            | 30         | -5.66            | -0.00686              | PASS     |          |
|           |           |                      |              |            | 40         | -6.31            | -0.00764              | PASS     |          |
|           |           |                      |              |            | 50         | -10.40           | -0.0126               | PASS     |          |
|           |           |                      | MCH          | VN         | -30        | -8.70            | -0.0104               | PASS     |          |
|           |           |                      |              |            | -20        | -2.52            | -0.00301              | PASS     |          |
|           |           |                      |              |            | -10        | -1.44            | -0.00172              | PASS     |          |
|           |           |                      |              |            | 0          | -11.89           | -0.01421              | PASS     |          |
|           |           |                      |              |            | 10         | -7.31            | -0.00874              | PASS     |          |
|           |           |                      |              |            | 20         | -10.94           | -0.01308              | PASS     |          |
|           |           |                      |              |            | 30         | -8.50            | -0.01016              | PASS     |          |
|           |           |                      |              |            | 40         | -11.70           | -0.01399              | PASS     |          |
|           |           |                      | HCH          | VN         | -30        | -5.22            | -0.00616              | PASS     |          |
|           |           |                      |              |            | -20        | -6.18            | -0.00729              | PASS     |          |
|           |           |                      |              |            | -10        | -2.27            | -0.00268              | PASS     |          |
|           |           |                      |              |            | 0          | -3.30            | -0.00389              | PASS     |          |
|           |           |                      |              |            | 10         | -1.19            | -0.0014               | PASS     |          |
|           |           |                      |              |            | 20         | -2.75            | -0.00324              | PASS     |          |
|           |           |                      |              |            | 30         | -5.31            | -0.00627              | PASS     |          |
|           |           |                      |              |            | 40         | -9.28            | -0.01095              | PASS     |          |
|           |           |                      | 5            | LCH        | VN         | -30              | -3.08                 | -0.00373 | PASS     |
|           |           |                      |              |            |            | -20              | -8.35                 | -0.0101  | PASS     |
|           |           |                      |              |            |            | -10              | -4.76                 | -0.00576 | PASS     |
|           |           |                      |              |            |            | 0                | -3.93                 | -0.00475 | PASS     |
|           |           | 10                   |              |            |            | -9.47            | -0.01146              | PASS     |          |
|           |           | 20                   |              |            |            | -3.06            | -0.0037               | PASS     |          |
|           |           | 30                   |              |            |            | -6.02            | -0.00728              | PASS     |          |
|           |           | 40                   |              |            |            | -4.59            | -0.00555              | PASS     |          |
|           |           | 50                   |              |            |            | -6.92            | -0.00837              | PASS     |          |
|           |           | MCH                  |              |            |            | VN               | -30                   | -1.56    | -0.00186 |
|           |           |                      |              | -20        | -1.99      |                  | -0.00238              | PASS     |          |
|           |           |                      |              | -10        | -5.99      |                  | -0.00716              | PASS     |          |
|           |           |                      | 0            | -10.81     | -0.01292   |                  | PASS                  |          |          |

| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Volt. | Test Temp. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |          |      |
|-----------|-----------|----------------------|--------------|------------|------------|------------------|-----------------------|---------|----------|------|
|           |           |                      |              |            | 10         | -8.63            | -0.01032              | PASS    |          |      |
|           |           |                      |              |            | 20         | -7.98            | -0.00954              | PASS    |          |      |
|           |           |                      |              |            | 30         | -5.15            | -0.00616              | PASS    |          |      |
|           |           |                      |              |            | 40         | -7.94            | -0.00949              | PASS    |          |      |
|           |           |                      |              |            | 50         | -2.02            | -0.00241              | PASS    |          |      |
|           |           |                      | HCH          | VN         | -30        | -7.02            | -0.00829              | PASS    |          |      |
|           |           |                      |              |            | -20        | -3.26            | -0.00385              | PASS    |          |      |
|           |           |                      |              |            | -10        | -7.77            | -0.00918              | PASS    |          |      |
|           |           |                      |              |            | 0          | -5.22            | -0.00617              | PASS    |          |      |
|           |           |                      |              |            | 10         | -8.67            | -0.01024              | PASS    |          |      |
|           |           |                      |              |            | 20         | -7.02            | -0.00829              | PASS    |          |      |
|           |           |                      |              |            | 30         | -8.84            | -0.01044              | PASS    |          |      |
|           |           |                      |              |            | 40         | -7.04            | -0.00832              | PASS    |          |      |
|           |           |                      |              |            | 50         | -6.94            | -0.0082               | PASS    |          |      |
|           |           |                      |              |            | LCH        | VN               | -30                   | -5.94   | -0.00717 | PASS |
|           |           |                      |              |            |            |                  | -20                   | -9.61   | -0.01159 | PASS |
|           |           |                      |              |            |            |                  | -10                   | -6.47   | -0.0078  | PASS |
|           |           |                      |              |            |            |                  | 0                     | -5.25   | -0.00633 | PASS |
|           |           |                      |              |            |            |                  | 10                    | -6.78   | -0.00818 | PASS |
|           |           |                      |              |            |            |                  | 20                    | -8.85   | -0.01068 | PASS |
|           |           | 30                   | -3.91        | -0.00472   |            |                  | PASS                  |         |          |      |
|           |           | 40                   | -6.55        | -0.0079    |            |                  | PASS                  |         |          |      |
|           |           | 50                   | -9.91        | -0.01195   |            |                  | PASS                  |         |          |      |
|           |           | MCH                  | VN           | -30        |            |                  | -6.94                 | -0.0083 | PASS     |      |
|           |           |                      |              | -20        | -9.06      | -0.01083         | PASS                  |         |          |      |
|           |           |                      |              | -10        | -5.14      | -0.00614         | PASS                  |         |          |      |
|           |           |                      |              | 0          | -4.95      | -0.00592         | PASS                  |         |          |      |
|           |           |                      |              | 10         | -9.97      | -0.01192         | PASS                  |         |          |      |
|           |           |                      |              | 20         | -0.56      | -0.00067         | PASS                  |         |          |      |
|           |           |                      |              | 30         | -8.70      | -0.0104          | PASS                  |         |          |      |
|           |           |                      |              | 40         | -8.15      | -0.00974         | PASS                  |         |          |      |
|           |           | HCH                  | VN           | 50         | -3.00      | -0.00359         | PASS                  |         |          |      |
|           |           |                      |              | -30        | -7.95      | -0.00942         | PASS                  |         |          |      |
|           |           |                      |              | -20        | -4.79      | -0.00568         | PASS                  |         |          |      |
|           |           |                      |              | -10        | -7.40      | -0.00877         | PASS                  |         |          |      |
|           |           |                      |              | 0          | -6.08      | -0.0072          | PASS                  |         |          |      |
|           |           |                      |              | 10         | -8.57      | -0.01015         | PASS                  |         |          |      |
|           |           |                      |              | 20         | -4.39      | -0.0052          | PASS                  |         |          |      |
|           |           | 30                   | -6.94        | -0.00822   | PASS       |                  |                       |         |          |      |
|           |           | 10                   |              |            |            |                  |                       |         |          |      |

| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Volt. | Test Temp. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|------------|------------------|-----------------------|---------|
|           | LTE/TM2   | 1.4                  | LCH          | VN         | 40         | -6.77            | -0.00802              | PASS    |
|           |           |                      |              |            | 50         | -5.12            | -0.00607              | PASS    |
|           |           |                      |              |            | -30        | -9.97            | -0.01209              | PASS    |
|           |           |                      |              |            | -20        | -4.81            | -0.00583              | PASS    |
|           |           |                      |              |            | -10        | -4.01            | -0.00486              | PASS    |
|           |           |                      |              |            | 0          | 3.20             | 0.00388               | PASS    |
|           |           |                      |              |            | 10         | -1.26            | -0.00153              | PASS    |
|           |           |                      |              |            | 20         | -7.97            | -0.00966              | PASS    |
|           |           |                      |              |            | 30         | -4.42            | -0.00536              | PASS    |
|           |           |                      | 40           | 0.74       | 0.0009     | PASS             |                       |         |
|           |           |                      | 50           | -5.31      | -0.00644   | PASS             |                       |         |
|           |           |                      | MCH          | VN         | -30        | -0.17            | -0.0002               | PASS    |
|           |           |                      |              |            | -20        | -5.69            | -0.0068               | PASS    |
|           |           |                      |              |            | -10        | -3.62            | -0.00433              | PASS    |
|           |           |                      |              |            | 0          | -7.80            | -0.00932              | PASS    |
|           |           |                      |              |            | 10         | -10.13           | -0.01211              | PASS    |
|           |           |                      |              |            | 20         | -2.55            | -0.00305              | PASS    |
|           |           |                      |              |            | 30         | -3.95            | -0.00472              | PASS    |
|           |           | 40                   |              |            | -6.15      | -0.00735         | PASS                  |         |
|           |           | 50                   |              |            | -9.17      | -0.01096         | PASS                  |         |
|           |           | HCH                  | VN           | -30        | -10.86     | -0.0128          | PASS                  |         |
|           |           |                      |              | -20        | -8.71      | -0.01027         | PASS                  |         |
|           |           |                      |              | -10        | -4.65      | -0.00548         | PASS                  |         |
|           |           |                      |              | 0          | -8.08      | -0.00952         | PASS                  |         |
|           |           |                      |              | 10         | -0.83      | -0.00098         | PASS                  |         |
|           |           |                      |              | 20         | -7.44      | -0.00877         | PASS                  |         |
|           |           |                      |              | 30         | -7.98      | -0.00941         | PASS                  |         |
|           |           |                      |              | 40         | -9.33      | -0.011           | PASS                  |         |
|           |           |                      |              | 50         | -2.30      | -0.00271         | PASS                  |         |
|           |           | 3                    | LCH          | VN         | -30        | -0.94            | -0.00114              | PASS    |
|           |           |                      |              |            | -20        | -11.13           | -0.01348              | PASS    |
|           |           |                      |              |            | -10        | -6.44            | -0.0078               | PASS    |
|           |           |                      |              |            | 0          | -3.79            | -0.00459              | PASS    |
| 10        | -6.95     |                      |              |            | -0.00842   | PASS             |                       |         |
| 20        | -0.24     |                      |              |            | -0.00029   | PASS             |                       |         |
| 30        | -5.72     |                      |              |            | -0.00693   | PASS             |                       |         |
| 40        | -6.01     |                      |              |            | -0.00728   | PASS             |                       |         |
| 50        | -7.94     |                      |              |            | -0.00962   | PASS             |                       |         |
| MCH       | VN        |                      | -30          | -6.74      | -0.00806   | PASS             |                       |         |



| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Volt. | Test Temp. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict  |
|-----------|-----------|----------------------|--------------|------------|------------|------------------|-----------------------|----------|
|           |           |                      |              |            | -20        | -11.26           | -0.01346              | PASS     |
|           |           |                      |              |            | -10        | -4.02            | -0.00481              | PASS     |
|           |           |                      |              |            | 0          | -12.04           | -0.01439              | PASS     |
|           |           |                      |              |            | 10         | -3.19            | -0.00381              | PASS     |
|           |           |                      |              |            | 20         | -8.51            | -0.01017              | PASS     |
|           |           |                      |              |            | 30         | -4.45            | -0.00532              | PASS     |
|           |           |                      |              |            | 40         | -2.78            | -0.00332              | PASS     |
|           |           |                      |              |            | 50         | -9.54            | -0.0114               | PASS     |
|           |           |                      |              |            | HCH        | VN               | -30                   | -6.01    |
|           |           |                      | -20          | -7.20      |            |                  | -0.0085               | PASS     |
|           |           |                      | -10          | -4.73      |            |                  | -0.00558              | PASS     |
|           |           |                      | 0            | -6.90      |            |                  | -0.00814              | PASS     |
|           |           |                      | 10           | -1.02      |            |                  | -0.0012               | PASS     |
|           |           |                      | 20           | -10.61     |            |                  | -0.01252              | PASS     |
|           |           |                      | 30           | -7.87      |            |                  | -0.00929              | PASS     |
|           |           |                      | 40           | -7.35      |            |                  | -0.00867              | PASS     |
|           |           |                      | 50           | -6.05      |            |                  | -0.00714              | PASS     |
|           |           |                      | 5            | LCH        | VN         | -30              | -8.77                 | -0.01061 |
|           |           | -20                  |              |            |            | -6.81            | -0.00824              | PASS     |
|           |           | -10                  |              |            |            | -9.61            | -0.01163              | PASS     |
|           |           | 0                    |              |            |            | -11.50           | -0.01391              | PASS     |
|           |           | 10                   |              |            |            | -8.30            | -0.01004              | PASS     |
|           |           | 20                   |              |            |            | -1.07            | -0.00129              | PASS     |
|           |           | 30                   |              |            |            | -5.06            | -0.00612              | PASS     |
|           |           | 40                   |              |            |            | -6.82            | -0.00825              | PASS     |
|           |           | 50                   |              |            |            | -7.71            | -0.00933              | PASS     |
|           |           | MCH                  |              | VN         | -30        | -3.62            | -0.00433              | PASS     |
|           |           |                      |              |            | -20        | -7.10            | -0.00849              | PASS     |
|           |           |                      |              |            | -10        | -7.60            | -0.00909              | PASS     |
|           |           |                      |              |            | 0          | -3.63            | -0.00434              | PASS     |
|           |           |                      |              |            | 10         | -4.63            | -0.00553              | PASS     |
|           |           |                      |              |            | 20         | 0.06             | 0.00007               | PASS     |
|           |           |                      |              |            | 30         | -6.74            | -0.00806              | PASS     |
|           |           |                      |              |            | 40         | -1.19            | -0.00142              | PASS     |
|           |           |                      |              |            | 50         | -2.35            | -0.00281              | PASS     |
|           |           | HCH                  | VN           | -30        | -9.83      | -0.01161         | PASS                  |          |
| -20       | 0.27      |                      |              | 0.00032    | PASS       |                  |                       |          |
| -10       | -6.74     |                      |              | -0.00796   | PASS       |                  |                       |          |
| 0         | -4.68     |                      |              | -0.00553   | PASS       |                  |                       |          |



| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Volt. | Test Temp. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |          |      |
|-----------|-----------|----------------------|--------------|------------|------------|------------------|-----------------------|---------|----------|------|
|           |           |                      |              |            | 10         | -5.44            | -0.00643              | PASS    |          |      |
|           |           |                      |              |            | 20         | -5.19            | -0.00613              | PASS    |          |      |
|           |           |                      |              |            | 30         | -6.74            | -0.00796              | PASS    |          |      |
|           |           |                      |              |            | 40         | -6.01            | -0.0071               | PASS    |          |      |
|           |           |                      |              |            | 50         | -6.78            | -0.00801              | PASS    |          |      |
|           |           | 10                   | LCH          | VN         | -30        | -8.31            | -0.01002              | PASS    |          |      |
|           |           |                      |              |            | -20        | -5.81            | -0.00701              | PASS    |          |      |
|           |           |                      |              |            | -10        | -2.43            | -0.00293              | PASS    |          |      |
|           |           |                      |              |            | 0          | -7.60            | -0.00917              | PASS    |          |      |
|           |           |                      |              |            | 10         | -5.01            | -0.00604              | PASS    |          |      |
|           |           |                      |              |            | 20         | -10.59           | -0.01277              | PASS    |          |      |
|           |           |                      |              |            | 30         | -8.85            | -0.01068              | PASS    |          |      |
|           |           |                      |              |            | 40         | -8.21            | -0.0099               | PASS    |          |      |
|           |           |                      |              |            | 50         | -9.06            | -0.01093              | PASS    |          |      |
|           |           |                      |              |            | MCH        | VN               | -30                   | -7.17   | -0.00857 | PASS |
|           |           |                      |              |            |            |                  | -20                   | -5.72   | -0.00684 | PASS |
|           |           |                      |              |            |            |                  | -10                   | -7.78   | -0.0093  | PASS |
|           |           |                      |              |            |            |                  | 0                     | -6.17   | -0.00738 | PASS |
|           |           |                      |              |            |            |                  | 10                    | -5.28   | -0.00631 | PASS |
|           |           |                      |              |            |            |                  | 20                    | -3.00   | -0.00359 | PASS |
|           |           |                      | 30           | -4.49      |            |                  | -0.00537              | PASS    |          |      |
|           |           |                      | 40           | -4.72      |            |                  | -0.00564              | PASS    |          |      |
|           |           |                      | 50           | -7.12      |            |                  | -0.00851              | PASS    |          |      |
|           |           |                      | HCH          | VN         |            |                  | -30                   | -5.41   | -0.00641 | PASS |
|           |           |                      |              |            | -20        | -4.84            | -0.00573              | PASS    |          |      |
|           |           |                      |              |            | -10        | -8.71            | -0.01032              | PASS    |          |      |
|           |           |                      |              |            | 0          | -4.51            | -0.00534              | PASS    |          |      |
|           |           |                      |              |            | 10         | -6.14            | -0.00727              | PASS    |          |      |
|           |           |                      |              |            | 20         | -6.94            | -0.00822              | PASS    |          |      |
|           |           |                      |              |            | 30         | -2.66            | -0.00315              | PASS    |          |      |
| 40        | -3.56     | -0.00422             |              |            | PASS       |                  |                       |         |          |      |
| 50        | -4.86     | -0.00576             | PASS         |            |            |                  |                       |         |          |      |

END