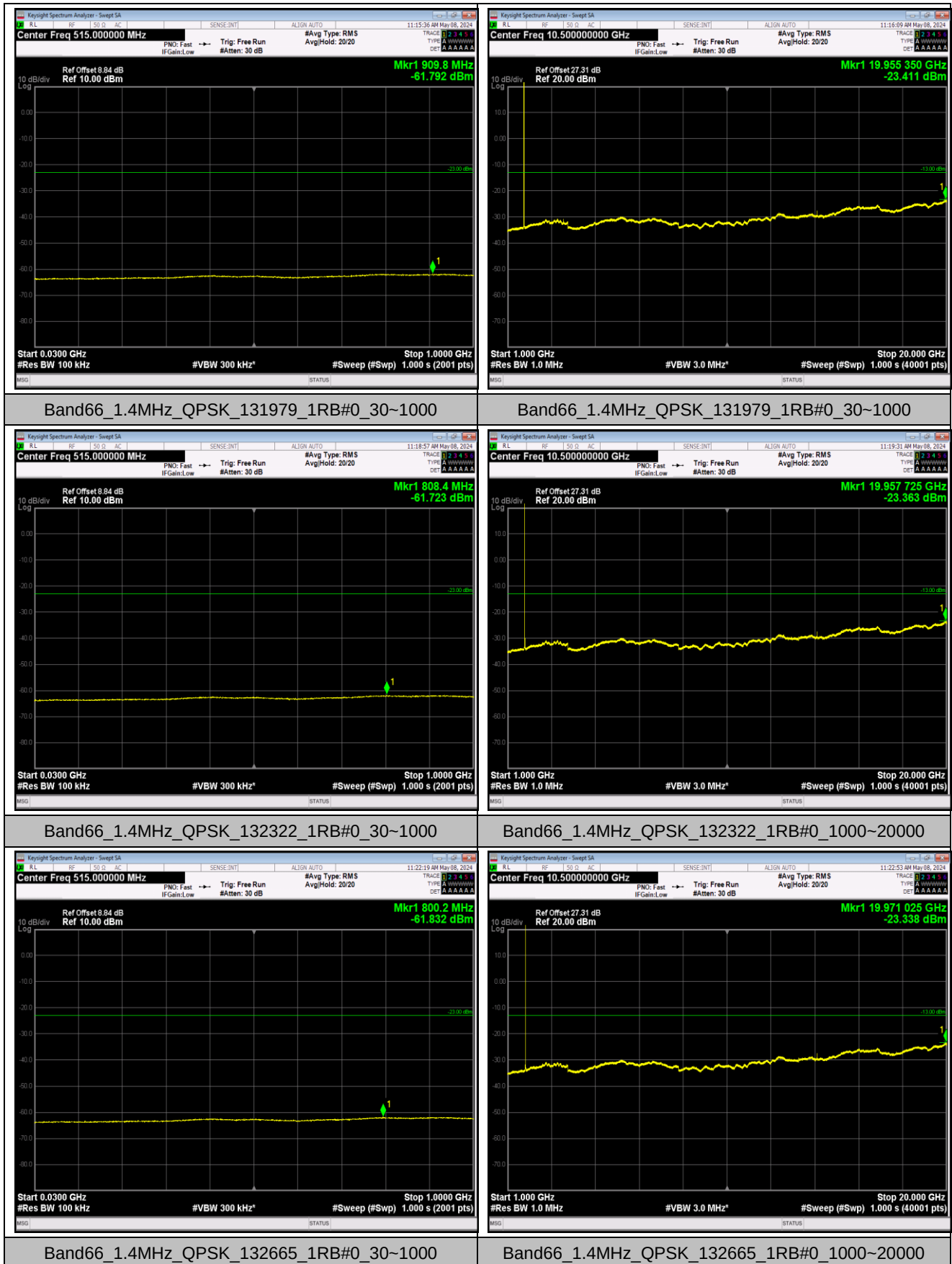
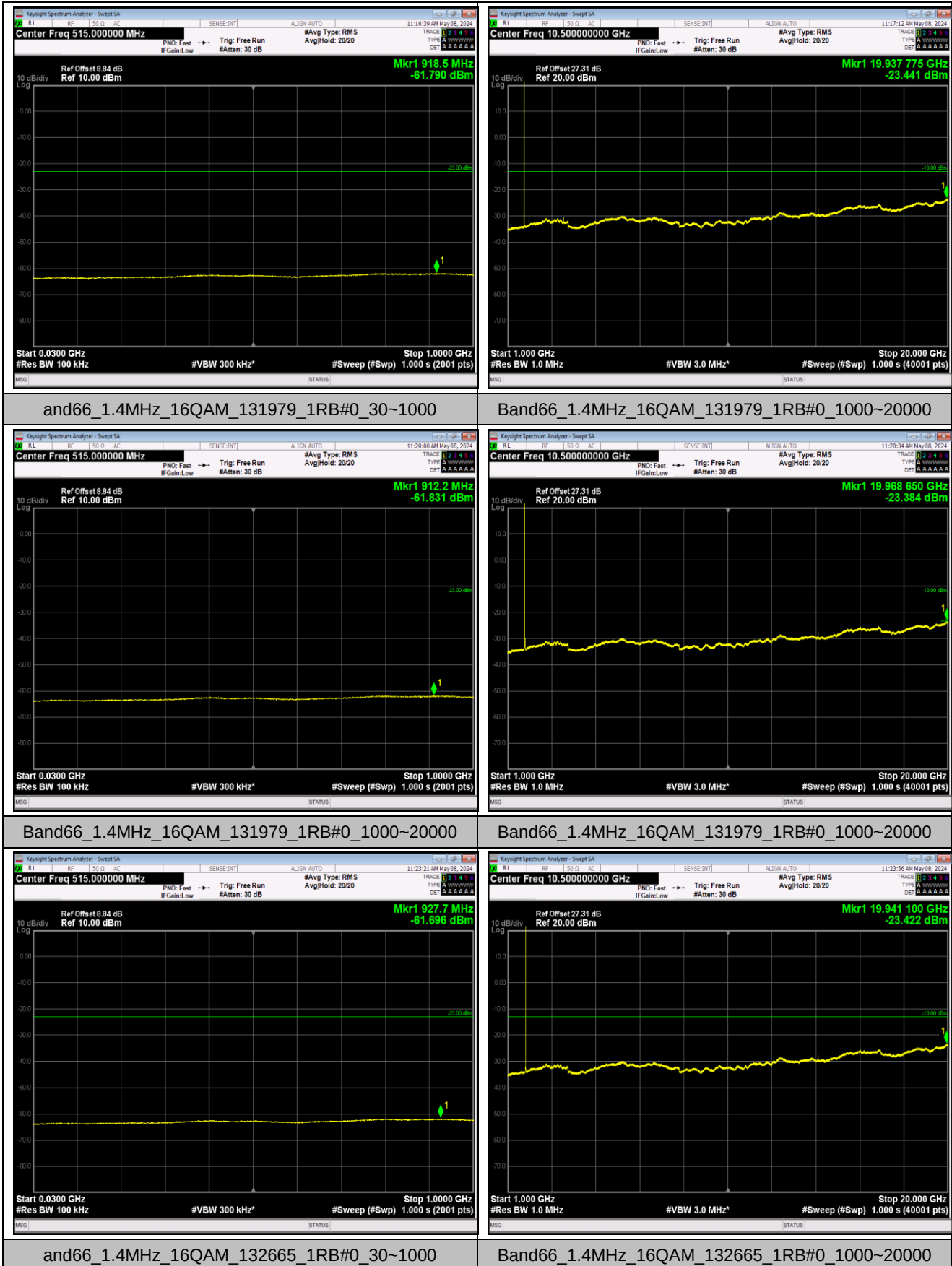
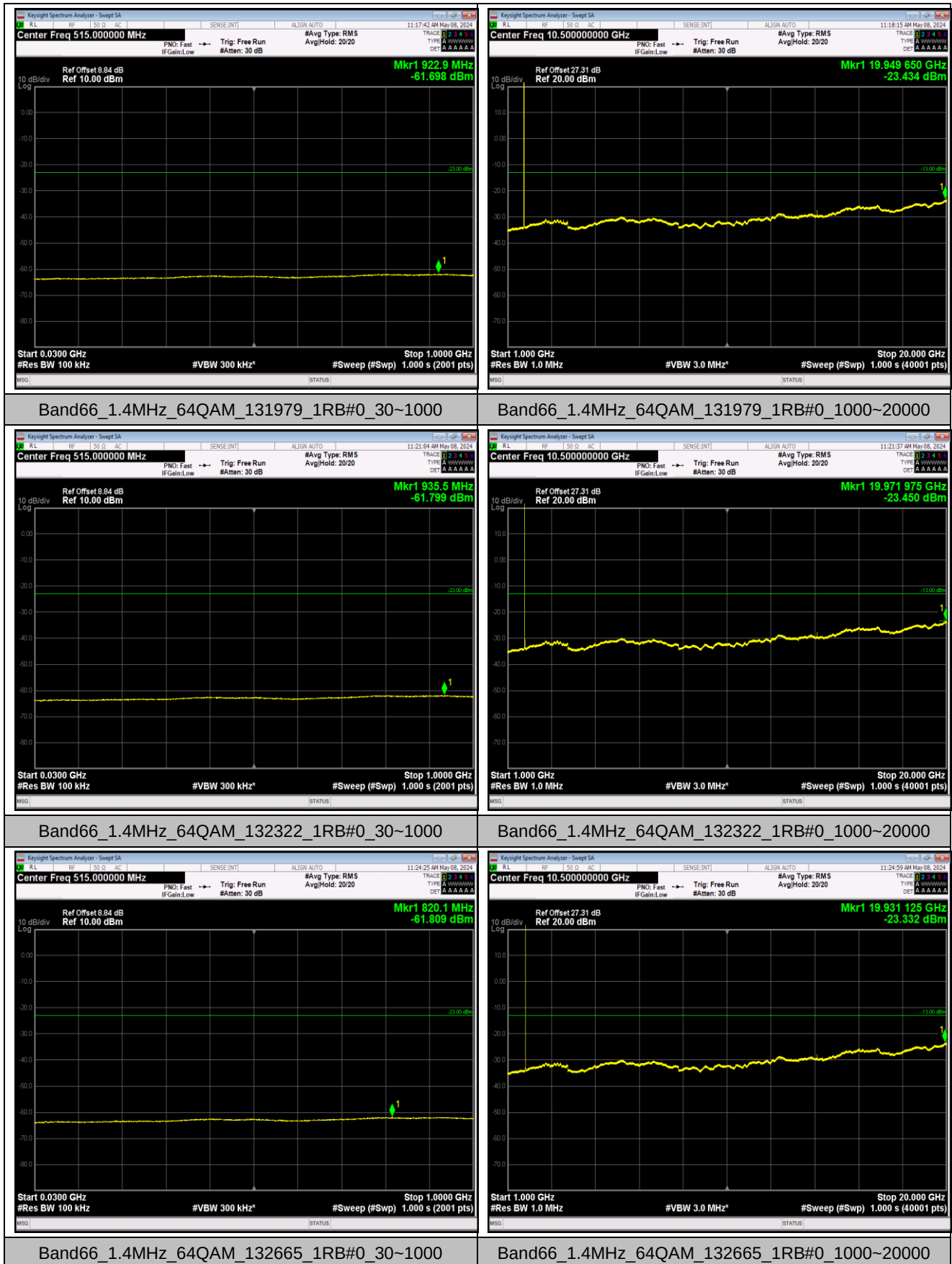
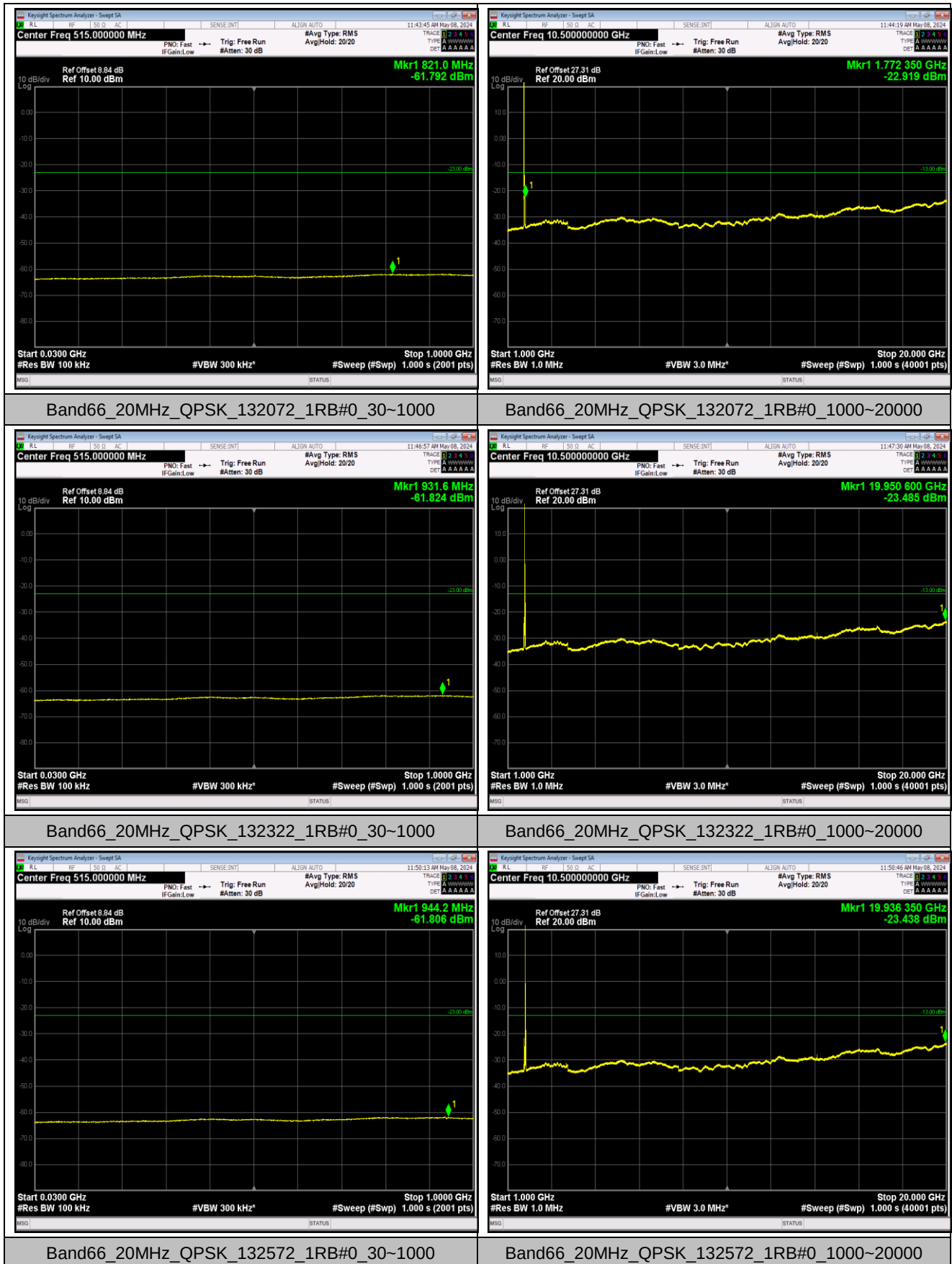
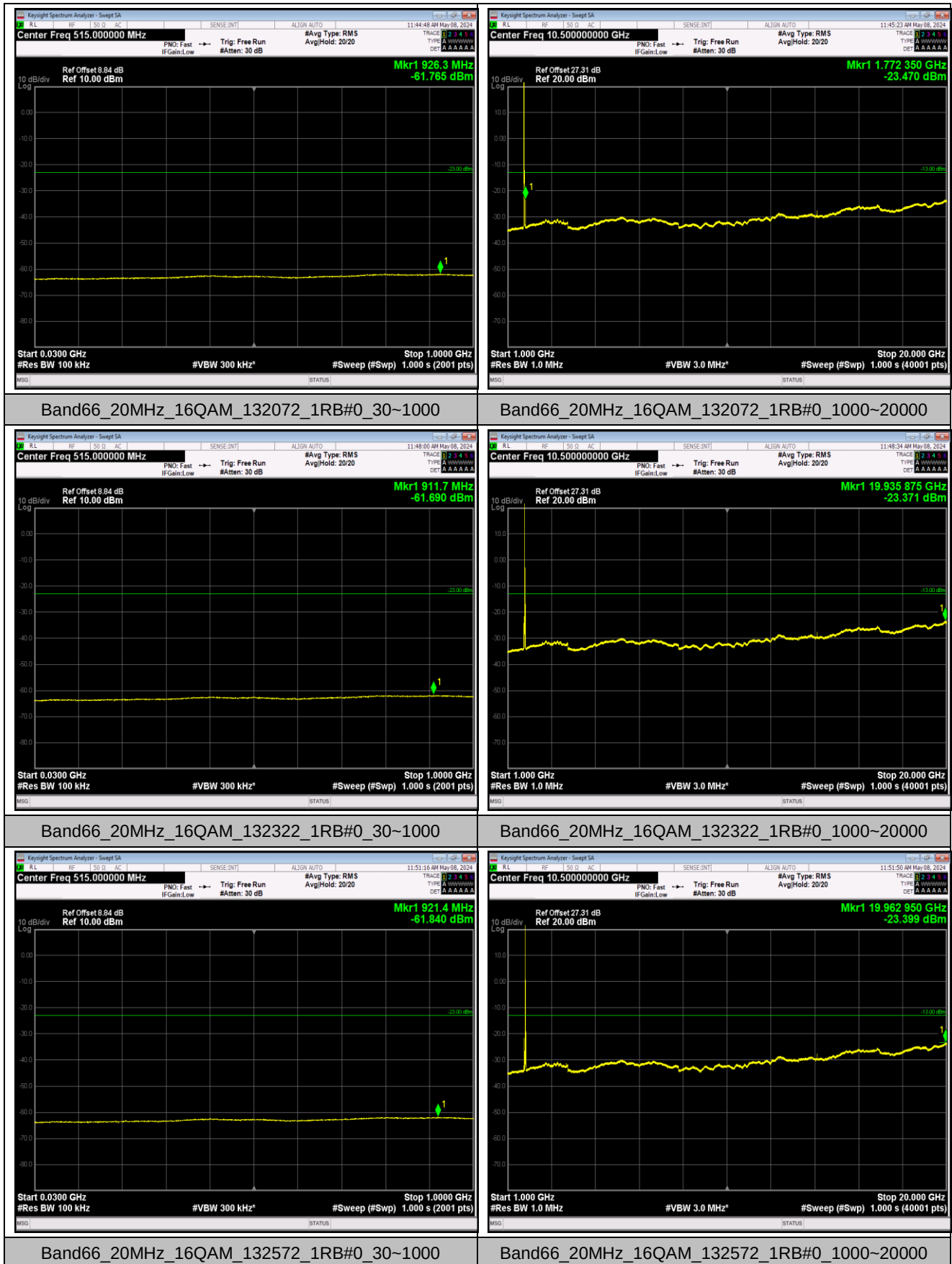


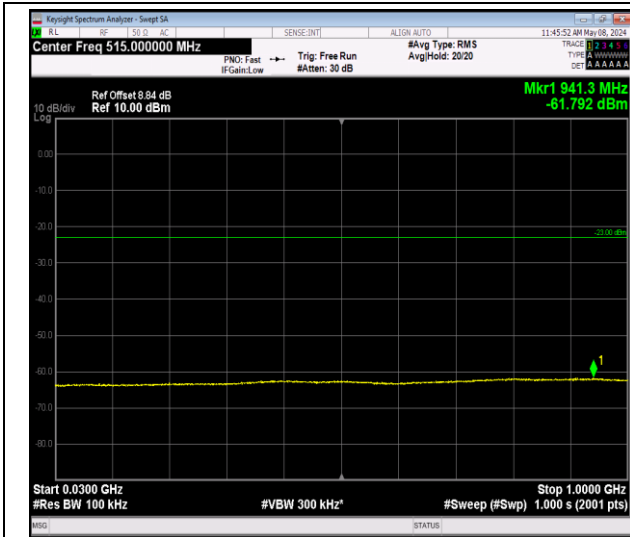




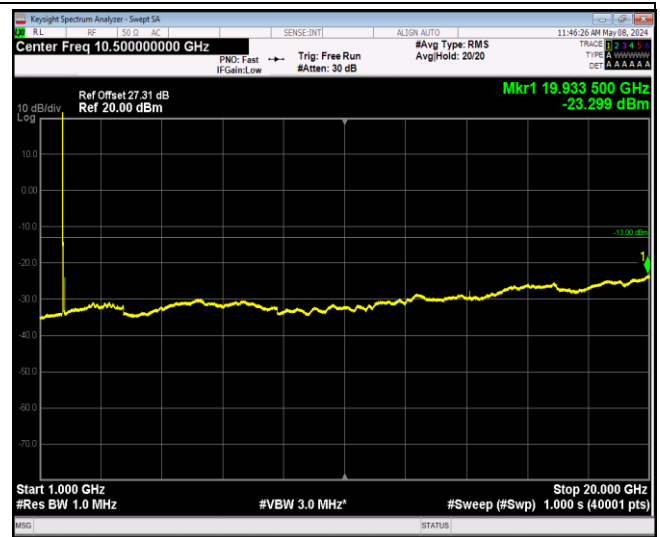




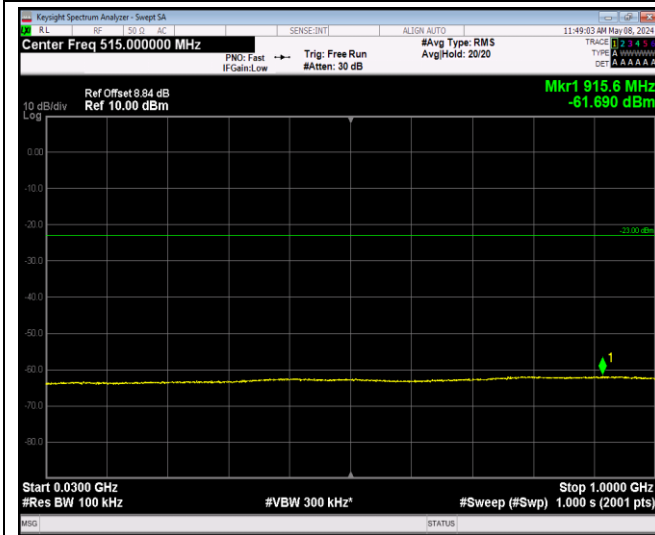




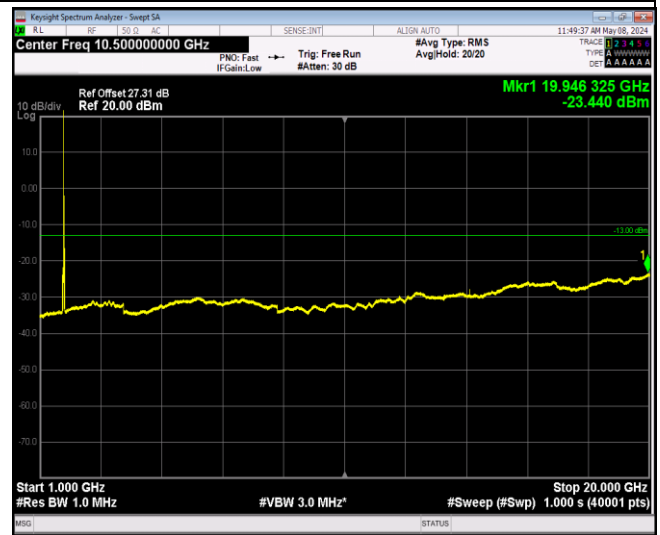
Band66\_20MHz\_64QAM\_132072\_1RB#0\_30~1000



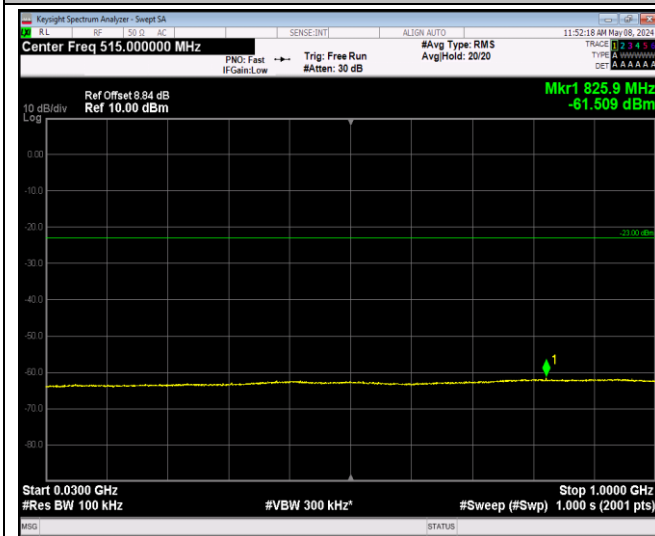
Band66\_20MHz\_64QAM\_132072\_1RB#0\_1000~20000



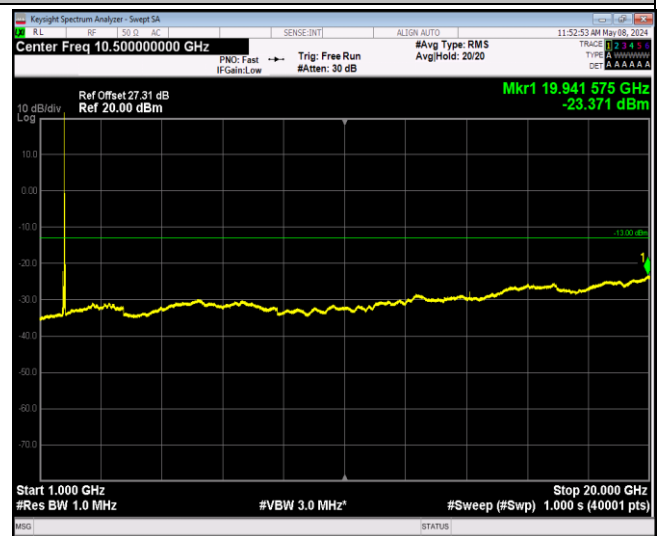
Band66\_20MHz\_64QAM\_132322\_1RB#0\_30~1000



Band66\_20MHz\_64QAM\_132322\_1RB#0\_1000~20000



Band66\_20MHz\_64QAM\_132572\_1RB#0\_30~1000



Band66\_20MHz\_64QAM\_132572\_1RB#0\_1000~20000

## Appendix F: Frequency Stability

### Test Result

LTE Band 2 part:

| Reference Frequency: LTE Band 2 (10MHz) Middle channel=18900 Frequency=1880.0MHz |                     |                 |           |                                         |        |
|----------------------------------------------------------------------------------|---------------------|-----------------|-----------|-----------------------------------------|--------|
| Temperature                                                                      |                     |                 |           |                                         |        |
| Power<br>supplied (Vdc)                                                          | Temperature<br>(°C) | Frequency error |           | Limit (ppm)                             | Result |
|                                                                                  |                     | Hz              | ppm       |                                         |        |
| QPSK                                                                             |                     |                 |           |                                         |        |
| 3.85                                                                             | -30                 | -27.82          | -0.014798 | Within<br>authorized band<br>for Band 2 | Pass   |
|                                                                                  | -20                 | 5.84            | 0.003106  |                                         |        |
|                                                                                  | -10                 | -23.15          | -0.012314 |                                         |        |
|                                                                                  | 0                   | -32.07          | -0.017059 |                                         |        |
|                                                                                  | 10                  | -16.24          | -0.008638 |                                         |        |
|                                                                                  | 20                  | -15.23          | -0.008101 |                                         |        |
|                                                                                  | 30                  | -14.39          | -0.007654 |                                         |        |
|                                                                                  | 40                  | -19.40          | -0.010319 |                                         |        |
|                                                                                  | 50                  | -38.07          | -0.020250 |                                         |        |
| 16QAM                                                                            |                     |                 |           |                                         |        |
| 3.85                                                                             | -30                 | 31.00           | 0.016489  | Within<br>authorized band<br>for Band 2 | Pass   |
|                                                                                  | -20                 | 43.75           | 0.023271  |                                         |        |
|                                                                                  | -10                 | 14.41           | 0.007665  |                                         |        |
|                                                                                  | 0                   | 23.95           | 0.012739  |                                         |        |
|                                                                                  | 10                  | 10.21           | 0.005431  |                                         |        |
|                                                                                  | 20                  | 36.58           | 0.019457  |                                         |        |
|                                                                                  | 30                  | 51.51           | 0.027399  |                                         |        |
|                                                                                  | 40                  | -3.50           | -0.001862 |                                         |        |
|                                                                                  | 50                  | 14.95           | 0.007952  |                                         |        |
| 64QAM                                                                            |                     |                 |           |                                         |        |
| 3.85                                                                             | -30                 | 31.00           | 0.016489  | Within<br>authorized band<br>for Band 2 | Pass   |
|                                                                                  | -20                 | 43.75           | 0.023271  |                                         |        |
|                                                                                  | -10                 | 14.41           | 0.007665  |                                         |        |
|                                                                                  | 0                   | 23.95           | 0.012739  |                                         |        |
|                                                                                  | 10                  | 10.21           | 0.005431  |                                         |        |
|                                                                                  | 20                  | 36.58           | 0.019457  |                                         |        |
|                                                                                  | 30                  | 51.51           | 0.027399  |                                         |        |
|                                                                                  | 40                  | -3.50           | -0.001862 |                                         |        |
|                                                                                  | 50                  | 14.95           | 0.007952  |                                         |        |

| Voltage                                                                                                          |                         |                 |           |                                         |        |
|------------------------------------------------------------------------------------------------------------------|-------------------------|-----------------|-----------|-----------------------------------------|--------|
| Temperature<br>(°C)                                                                                              | Power<br>supplied (Vdc) | Frequency error |           | Limit (ppm)                             | Result |
|                                                                                                                  |                         | Hz              | ppm       |                                         |        |
| QPSK                                                                                                             |                         |                 |           |                                         |        |
| 25                                                                                                               | 3.00                    | 12.43           | 0.006612  | Within<br>authorized band<br>for Band 2 | Pass   |
|                                                                                                                  | 3.85                    | 22.12           | 0.011766  |                                         |        |
|                                                                                                                  | 4.40                    | -15.69          | -0.008346 |                                         |        |
| 16QAM                                                                                                            |                         |                 |           |                                         |        |
| 25                                                                                                               | 3.00                    | -40.76          | -0.021681 | Within<br>authorized band<br>for Band 2 | Pass   |
|                                                                                                                  | 3.85                    | -23.43          | -0.012463 |                                         |        |
|                                                                                                                  | 4.40                    | -8.71           | -0.004633 |                                         |        |
| 64QAM                                                                                                            |                         |                 |           |                                         |        |
| 25                                                                                                               | 3.00                    | 23.10           | 0.012287  | Within<br>authorized band<br>for Band 2 | Pass   |
|                                                                                                                  | 3.85                    | 37.95           | 0.020186  |                                         |        |
|                                                                                                                  | 4.40                    | 29.71           | 0.015803  |                                         |        |
| Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report. |                         |                 |           |                                         |        |



## LTE Band 7 part:

| Reference Frequency: LTE Band 7(10MHz) Middle channel=21100 Frequency=2535.0MHz |                    |                 |           |                                         |        |
|---------------------------------------------------------------------------------|--------------------|-----------------|-----------|-----------------------------------------|--------|
| Temperature                                                                     |                    |                 |           |                                         |        |
| Power<br>supplied (Vdc)                                                         | Temperature<br>(℃) | Frequency error |           | Limit (ppm)                             | Result |
|                                                                                 |                    | Hz              | ppm       |                                         |        |
| QPSK                                                                            |                    |                 |           |                                         |        |
| 3.85                                                                            | -30                | 32.80           | 0.012939  | Within<br>authorized band<br>for Band 7 | Pass   |
|                                                                                 | -20                | -17.48          | -0.006895 |                                         |        |
|                                                                                 | -10                | -24.26          | -0.009570 |                                         |        |
|                                                                                 | 0                  | 26.58           | 0.010485  |                                         |        |
|                                                                                 | 10                 | 20.73           | 0.008178  |                                         |        |
|                                                                                 | 20                 | 51.57           | 0.020343  |                                         |        |
|                                                                                 | 30                 | 42.10           | 0.016607  |                                         |        |
|                                                                                 | 40                 | 11.92           | 0.004702  |                                         |        |
|                                                                                 | 50                 | 32.16           | 0.012686  |                                         |        |
| 16QAM                                                                           |                    |                 |           |                                         |        |
| 3.85                                                                            | -30                | -33.66          | -0.013278 | Within<br>authorized band<br>for Band 7 | Pass   |
|                                                                                 | -20                | 12.04           | 0.004750  |                                         |        |
|                                                                                 | -10                | -17.67          | -0.006970 |                                         |        |
|                                                                                 | 0                  | 19.03           | 0.007507  |                                         |        |
|                                                                                 | 10                 | -10.61          | -0.004185 |                                         |        |
|                                                                                 | 20                 | -25.85          | -0.010197 |                                         |        |
|                                                                                 | 30                 | -15.99          | -0.006308 |                                         |        |
|                                                                                 | 40                 | -37.58          | -0.014824 |                                         |        |
|                                                                                 | 50                 | -55.09          | -0.021732 |                                         |        |
| 64QAM                                                                           |                    |                 |           |                                         |        |
| 3.85                                                                            | -30                | 10.47           | 0.004130  | Within<br>authorized band<br>for Band 7 | Pass   |
|                                                                                 | -20                | 25.29           | 0.009976  |                                         |        |
|                                                                                 | -10                | 26.95           | 0.010631  |                                         |        |
|                                                                                 | 0                  | -29.74          | -0.011732 |                                         |        |
|                                                                                 | 10                 | -26.45          | -0.010434 |                                         |        |
|                                                                                 | 20                 | 36.59           | 0.014434  |                                         |        |
|                                                                                 | 30                 | 53.79           | 0.021219  |                                         |        |
|                                                                                 | 40                 | 16.28           | 0.006422  |                                         |        |
|                                                                                 | 50                 | 39.42           | 0.015550  |                                         |        |

| Voltage                                                                                                          |                         |                 |           |                                         |        |
|------------------------------------------------------------------------------------------------------------------|-------------------------|-----------------|-----------|-----------------------------------------|--------|
| Temperature<br>(°C)                                                                                              | Power<br>supplied (Vdc) | Frequency error |           | Limit (ppm)                             | Result |
|                                                                                                                  |                         | Hz              | ppm       |                                         |        |
| QPSK                                                                                                             |                         |                 |           |                                         |        |
| 25                                                                                                               | 3.00                    | -42.44          | -0.016742 | Within<br>authorized band<br>for Band 7 | Pass   |
|                                                                                                                  | 3.85                    | -27.22          | -0.010738 |                                         |        |
|                                                                                                                  | 4.40                    | 29.94           | 0.011811  |                                         |        |
| 16QAM                                                                                                            |                         |                 |           |                                         |        |
| 25                                                                                                               | 3.00                    | -11.86          | -0.004679 | Within<br>authorized band<br>for Band 7 | Pass   |
|                                                                                                                  | 3.85                    | -37.15          | -0.014655 |                                         |        |
|                                                                                                                  | 4.40                    | -42.69          | -0.016840 |                                         |        |
| 64QAM                                                                                                            |                         |                 |           |                                         |        |
| 25                                                                                                               | 3.00                    | -30.34          | -0.011968 | Within<br>authorized band<br>for Band 7 | Pass   |
|                                                                                                                  | 3.85                    | 27.82           | 0.010974  |                                         |        |
|                                                                                                                  | 4.40                    | 46.45           | 0.018323  |                                         |        |
| Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report. |                         |                 |           |                                         |        |

## LTE Band 12 part:

| Reference Frequency: LTE Band 12(10MHz) Middle channel=23095 Frequency=707.5MHz |                     |                 |           |                                          |        |
|---------------------------------------------------------------------------------|---------------------|-----------------|-----------|------------------------------------------|--------|
| Temperature                                                                     |                     |                 |           |                                          |        |
| Power<br>supplied (Vdc)                                                         | Temperature<br>(°C) | Frequency error |           | Limit (ppm)                              | Result |
|                                                                                 |                     | Hz              | ppm       |                                          |        |
| QPSK                                                                            |                     |                 |           |                                          |        |
| 3.85                                                                            | -30                 | 5.55            | 0.007845  | Within<br>authorized band<br>for Band 12 | Pass   |
|                                                                                 | -20                 | 2.83            | 0.004000  |                                          |        |
|                                                                                 | -10                 | 1.82            | 0.002572  |                                          |        |
|                                                                                 | 0                   | -2.68           | -0.003788 |                                          |        |
|                                                                                 | 10                  | -4.49           | -0.006346 |                                          |        |
|                                                                                 | 20                  | -6.17           | -0.008721 |                                          |        |
|                                                                                 | 30                  | -5.15           | -0.007279 |                                          |        |
|                                                                                 | 40                  | -5.25           | -0.007420 |                                          |        |
|                                                                                 | 50                  | -9.66           | -0.013654 |                                          |        |
| 16QAM                                                                           |                     |                 |           |                                          |        |
| 3.85                                                                            | -30                 | 1.40            | 0.001979  | Within<br>authorized band<br>for Band 12 | Pass   |
|                                                                                 | -20                 | 5.35            | 0.007562  |                                          |        |
|                                                                                 | -10                 | 11.77           | 0.016636  |                                          |        |
|                                                                                 | 0                   | 16.71           | 0.023618  |                                          |        |
|                                                                                 | 10                  | 19.98           | 0.028240  |                                          |        |
|                                                                                 | 20                  | 18.78           | 0.026544  |                                          |        |
|                                                                                 | 30                  | 18.91           | 0.026728  |                                          |        |
|                                                                                 | 40                  | 24.60           | 0.034770  |                                          |        |
|                                                                                 | 50                  | 33.56           | 0.047435  |                                          |        |
| 64QAM                                                                           |                     |                 |           |                                          |        |
| 3.85                                                                            | -30                 | 5.45            | 0.007703  | Within<br>authorized band<br>for Band 12 | Pass   |
|                                                                                 | -20                 | 14.68           | 0.020749  |                                          |        |
|                                                                                 | -10                 | 20.53           | 0.029018  |                                          |        |
|                                                                                 | 0                   | 25.08           | 0.035449  |                                          |        |
|                                                                                 | 10                  | 30.28           | 0.042799  |                                          |        |
|                                                                                 | 20                  | 36.68           | 0.051845  |                                          |        |
|                                                                                 | 30                  | 38.07           | 0.053809  |                                          |        |
|                                                                                 | 40                  | 41.90           | 0.059223  |                                          |        |
|                                                                                 | 50                  | 7.28            | 0.010290  |                                          |        |

| Voltage                                                                                                          |                         |                 |           |                                          |        |
|------------------------------------------------------------------------------------------------------------------|-------------------------|-----------------|-----------|------------------------------------------|--------|
| Temperature<br>(°C)                                                                                              | Power<br>supplied (Vdc) | Frequency error |           | Limit (ppm)                              | Result |
|                                                                                                                  |                         | Hz              | ppm       |                                          |        |
| QPSK                                                                                                             |                         |                 |           |                                          |        |
| 25                                                                                                               | 3.00                    | 15.03           | 0.021244  | Within<br>authorized band<br>for Band 12 | Pass   |
|                                                                                                                  | 3.85                    | 15.19           | 0.021470  |                                          |        |
|                                                                                                                  | 4.40                    | 9.76            | 0.013795  |                                          |        |
| 16QAM                                                                                                            |                         |                 |           |                                          |        |
| 25                                                                                                               | 3.00                    | -12.25          | -0.017314 | Within<br>authorized band<br>for Band 12 | Pass   |
|                                                                                                                  | 3.85                    | -10.84          | -0.015322 |                                          |        |
|                                                                                                                  | 4.40                    | -5.78           | -0.008170 |                                          |        |
| 64QAM                                                                                                            |                         |                 |           |                                          |        |
| 25                                                                                                               | 3.00                    | 33.96           | 0.048000  | Within<br>authorized band<br>for Band 12 | Pass   |
|                                                                                                                  | 3.85                    | 44.90           | 0.063463  |                                          |        |
|                                                                                                                  | 4.40                    | 47.61           | 0.067293  |                                          |        |
| Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report. |                         |                 |           |                                          |        |

**LTE Band 26 part: (814-824 MHz)**

| Reference Frequency: LTE Band 26(10MHz) Middle channel=26740 Frequency=819.0MHz |                     |                 |           |                                          |        |
|---------------------------------------------------------------------------------|---------------------|-----------------|-----------|------------------------------------------|--------|
| Temperature                                                                     |                     |                 |           |                                          |        |
| Power<br>supplied (Vdc)                                                         | Temperature<br>(°C) | Frequency error |           | Limit (ppm)                              | Result |
|                                                                                 |                     | Hz              | ppm       |                                          |        |
| QPSK                                                                            |                     |                 |           |                                          |        |
| 3.85                                                                            | -30                 | -35.72          | -0.043614 | Within<br>authorized band<br>for Band 26 | Pass   |
|                                                                                 | -20                 | -48.17          | -0.058816 |                                          |        |
|                                                                                 | -10                 | -6.32           | -0.007717 |                                          |        |
|                                                                                 | 0                   | -5.69           | -0.006947 |                                          |        |
|                                                                                 | 10                  | -10.87          | -0.013272 |                                          |        |
|                                                                                 | 20                  | -12.93          | -0.015788 |                                          |        |
|                                                                                 | 30                  | -26.84          | -0.032772 |                                          |        |
|                                                                                 | 40                  | -35.19          | -0.042967 |                                          |        |
|                                                                                 | 50                  | -33.70          | -0.041148 |                                          |        |
| 16QAM                                                                           |                     |                 |           |                                          |        |
| 3.85                                                                            | -30                 | -13.20          | -0.016117 | Within<br>authorized band<br>for Band 26 | Pass   |
|                                                                                 | -20                 | -13.78          | -0.016825 |                                          |        |
|                                                                                 | -10                 | -2.63           | -0.003211 |                                          |        |
|                                                                                 | 0                   | -9.24           | -0.011282 |                                          |        |
|                                                                                 | 10                  | -16.62          | -0.020293 |                                          |        |
|                                                                                 | 20                  | -18.70          | -0.022833 |                                          |        |
|                                                                                 | 30                  | -24.52          | -0.029939 |                                          |        |
|                                                                                 | 40                  | -28.34          | -0.034603 |                                          |        |
|                                                                                 | 50                  | -28.22          | -0.034457 |                                          |        |
| 64QAM                                                                           |                     |                 |           |                                          |        |
| 3.85                                                                            | -30                 | -3.95           | -0.004823 | Within<br>authorized band<br>for Band 26 | Pass   |
|                                                                                 | -20                 | 8.01            | 0.009780  |                                          |        |
|                                                                                 | -10                 | 12.67           | 0.015470  |                                          |        |
|                                                                                 | 0                   | 20.28           | 0.024762  |                                          |        |
|                                                                                 | 10                  | 19.91           | 0.024310  |                                          |        |
|                                                                                 | 20                  | 25.11           | 0.030659  |                                          |        |
|                                                                                 | 30                  | 38.67           | 0.047216  |                                          |        |
|                                                                                 | 40                  | 45.63           | 0.055714  |                                          |        |
|                                                                                 | 50                  | 47.94           | 0.058535  |                                          |        |

| Voltage                                                                                                          |                         |                 |           |                                          |        |
|------------------------------------------------------------------------------------------------------------------|-------------------------|-----------------|-----------|------------------------------------------|--------|
| Temperature<br>(°C)                                                                                              | Power<br>supplied (Vdc) | Frequency error |           | Limit (ppm)                              | Result |
|                                                                                                                  |                         | Hz              | ppm       |                                          |        |
| QPSK                                                                                                             |                         |                 |           |                                          |        |
| 25                                                                                                               | 3.00                    | 23.07           | 0.028168  | Within<br>authorized band<br>for Band 26 | Pass   |
|                                                                                                                  | 3.85                    | 7.77            | 0.009487  |                                          |        |
|                                                                                                                  | 4.40                    | -18.02          | -0.022002 |                                          |        |
| 16QAM                                                                                                            |                         |                 |           |                                          |        |
| 25                                                                                                               | 3.00                    | -39.61          | -0.048364 | Within<br>authorized band<br>for Band 26 | Pass   |
|                                                                                                                  | 3.85                    | -33.42          | -0.040806 |                                          |        |
|                                                                                                                  | 4.40                    | -24.69          | -0.030147 |                                          |        |
| 64QAM                                                                                                            |                         |                 |           |                                          |        |
| 25                                                                                                               | 3.00                    | -21.50          | -0.026252 | Within<br>authorized band<br>for Band 26 | Pass   |
|                                                                                                                  | 3.85                    | -14.33          | -0.017497 |                                          |        |
|                                                                                                                  | 4.40                    | -9.71           | -0.011856 |                                          |        |
| Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report. |                         |                 |           |                                          |        |

## LTE Band 26 part: (824-849 MHz)

| Reference Frequency: LTE Band 26(15MHz) Middle channel=26915 Frequency=836.5MHz |                     |                 |           |                                          |        |
|---------------------------------------------------------------------------------|---------------------|-----------------|-----------|------------------------------------------|--------|
| Temperature                                                                     |                     |                 |           |                                          |        |
| Power<br>supplied (Vdc)                                                         | Temperature<br>(°C) | Frequency error |           | Limit (ppm)                              | Result |
|                                                                                 |                     | Hz              | ppm       |                                          |        |
| QPSK                                                                            |                     |                 |           |                                          |        |
| 3.85                                                                            | -30                 | -35.59          | -0.042546 | Within<br>authorized band<br>for Band 26 | Pass   |
|                                                                                 | -20                 | -44.26          | -0.052911 |                                          |        |
|                                                                                 | -10                 | -11.52          | -0.013772 |                                          |        |
|                                                                                 | 0                   | -20.89          | -0.024973 |                                          |        |
|                                                                                 | 10                  | -27.42          | -0.032779 |                                          |        |
|                                                                                 | 20                  | -36.01          | -0.043048 |                                          |        |
|                                                                                 | 30                  | -40.90          | -0.048894 |                                          |        |
|                                                                                 | 40                  | -36.78          | -0.043969 |                                          |        |
|                                                                                 | 50                  | -46.79          | -0.055935 |                                          |        |
| 16QAM                                                                           |                     |                 |           |                                          |        |
| 3.85                                                                            | -30                 | 2.95            | 0.003527  | Within<br>authorized band<br>for Band 26 | Pass   |
|                                                                                 | -20                 | 7.28            | 0.008703  |                                          |        |
|                                                                                 | -10                 | 7.64            | 0.009133  |                                          |        |
|                                                                                 | 0                   | 10.03           | 0.011990  |                                          |        |
|                                                                                 | 10                  | 15.75           | 0.018828  |                                          |        |
|                                                                                 | 20                  | 25.81           | 0.030855  |                                          |        |
|                                                                                 | 30                  | 25.62           | 0.030628  |                                          |        |
|                                                                                 | 40                  | 19.54           | 0.023359  |                                          |        |
|                                                                                 | 50                  | 12.45           | 0.014883  |                                          |        |
| 64QAM                                                                           |                     |                 |           |                                          |        |
| 3.85                                                                            | -30                 | 33.53           | 0.040084  | Within<br>authorized band<br>for Band 26 | Pass   |
|                                                                                 | -20                 | 39.95           | 0.047759  |                                          |        |
|                                                                                 | -10                 | 44.05           | 0.052660  |                                          |        |
|                                                                                 | 0                   | 12.13           | 0.014501  |                                          |        |
|                                                                                 | 10                  | 33.39           | 0.039916  |                                          |        |
|                                                                                 | 20                  | 43.75           | 0.052301  |                                          |        |
|                                                                                 | 30                  | 43.53           | 0.052038  |                                          |        |
|                                                                                 | 40                  | 44.13           | 0.052756  |                                          |        |
|                                                                                 | 50                  | 7.25            | 0.008667  |                                          |        |

| Voltage                                                                                                          |                         |                 |           |                                          |        |
|------------------------------------------------------------------------------------------------------------------|-------------------------|-----------------|-----------|------------------------------------------|--------|
| Temperature<br>(°C)                                                                                              | Power<br>supplied (Vdc) | Frequency error |           | Limit (ppm)                              | Result |
|                                                                                                                  |                         | Hz              | ppm       |                                          |        |
| QPSK                                                                                                             |                         |                 |           |                                          |        |
| 25                                                                                                               | 3.00                    | 20.21           | 0.024379  | Within<br>authorized band<br>for Band 26 | Pass   |
|                                                                                                                  | 3.85                    | 16.05           | 0.019361  |                                          |        |
|                                                                                                                  | 4.40                    | -5.11           | -0.006164 |                                          |        |
| 16QAM                                                                                                            |                         |                 |           |                                          |        |
| 25                                                                                                               | 3.00                    | -13.19          | -0.015768 | Within<br>authorized band<br>for Band 26 | Pass   |
|                                                                                                                  | 3.85                    | -10.74          | -0.012839 |                                          |        |
|                                                                                                                  | 4.40                    | -5.64           | -0.006742 |                                          |        |
| 64QAM                                                                                                            |                         |                 |           |                                          |        |
| 25                                                                                                               | 3.00                    | 17.25           | 0.020622  | Within<br>authorized band<br>for Band 26 | Pass   |
|                                                                                                                  | 3.85                    | 19.56           | 0.023383  |                                          |        |
|                                                                                                                  | 4.40                    | 27.72           | 0.033138  |                                          |        |
| Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report. |                         |                 |           |                                          |        |



**LTE Band 41 part:**

| Reference Frequency: LTE Band 41 (10MHz) Middle channel=40640 Frequency=2595.0MHz |                  |                 |           |                                    |        |
|-----------------------------------------------------------------------------------|------------------|-----------------|-----------|------------------------------------|--------|
| Temperature                                                                       |                  |                 |           |                                    |        |
| Power supplied (Vdc)                                                              | Temperature (°C) | Frequency error |           | Limit (ppm)                        | Result |
|                                                                                   |                  | Hz              | ppm       |                                    |        |
| QPSK                                                                              |                  |                 |           |                                    |        |
| 3.85                                                                              | -30              | -15.78          | -0.006081 | Within authorized band for Band 41 | Pass   |
|                                                                                   | -20              | 5.66            | 0.002181  |                                    |        |
|                                                                                   | -10              | 46.19           | 0.017800  |                                    |        |
|                                                                                   | 0                | -15.09          | -0.005815 |                                    |        |
|                                                                                   | 10               | -55.69          | -0.021461 |                                    |        |
|                                                                                   | 20               | -17.47          | -0.006732 |                                    |        |
|                                                                                   | 30               | -18.95          | -0.007303 |                                    |        |
|                                                                                   | 40               | -29.43          | -0.011341 |                                    |        |
|                                                                                   | 50               | -34.29          | -0.013214 |                                    |        |
| 16QAM                                                                             |                  |                 |           |                                    |        |
| 3.85                                                                              | -30              | 48.14           | 0.018551  | Within authorized band for Band 41 | Pass   |
|                                                                                   | -20              | 36.78           | 0.014173  |                                    |        |
|                                                                                   | -10              | 28.71           | 0.011064  |                                    |        |
|                                                                                   | 0                | 11.53           | 0.004443  |                                    |        |
|                                                                                   | 10               | -14.66          | -0.005649 |                                    |        |
|                                                                                   | 20               | -11.24          | -0.004331 |                                    |        |
|                                                                                   | 30               | 43.30           | 0.016686  |                                    |        |
|                                                                                   | 40               | 42.61           | 0.016420  |                                    |        |
|                                                                                   | 50               | 24.55           | 0.009461  |                                    |        |
| 64QAM                                                                             |                  |                 |           |                                    |        |
| 3.85                                                                              | -30              | 17.41           | 0.006709  | Within authorized band for Band 41 | Pass   |
|                                                                                   | -20              | 48.38           | 0.018644  |                                    |        |
|                                                                                   | -10              | 23.59           | 0.009091  |                                    |        |
|                                                                                   | 0                | 9.18            | 0.003538  |                                    |        |
|                                                                                   | 10               | -47.34          | -0.018243 |                                    |        |
|                                                                                   | 20               | -36.45          | -0.014046 |                                    |        |
|                                                                                   | 30               | -58.81          | -0.022663 |                                    |        |
|                                                                                   | 40               | -29.30          | -0.011291 |                                    |        |
|                                                                                   | 50               | -16.99          | -0.006547 |                                    |        |

| Voltage                                                                                                          |                         |                 |           |                                          |        |
|------------------------------------------------------------------------------------------------------------------|-------------------------|-----------------|-----------|------------------------------------------|--------|
| Temperature<br>(°C)                                                                                              | Power<br>supplied (Vdc) | Frequency error |           | Limit (ppm)                              | Result |
|                                                                                                                  |                         | Hz              | ppm       |                                          |        |
| QPSK                                                                                                             |                         |                 |           |                                          |        |
| 25                                                                                                               | 3.00                    | -5.28           | -0.002035 | Within<br>authorized band<br>for Band 41 | Pass   |
|                                                                                                                  | 3.85                    | -23.27          | -0.008967 |                                          |        |
|                                                                                                                  | 4.40                    | 13.85           | 0.005337  |                                          |        |
| 16QAM                                                                                                            |                         |                 |           |                                          |        |
| 25                                                                                                               | 3.00                    | 7.45            | 0.002871  | Within<br>authorized band<br>for Band41  | Pass   |
|                                                                                                                  | 3.85                    | 53.84           | 0.020748  |                                          |        |
|                                                                                                                  | 4.40                    | 45.53           | 0.017545  |                                          |        |
| 64QAM                                                                                                            |                         |                 |           |                                          |        |
| 25                                                                                                               | 3.00                    | 10.57           | 0.004073  | Within<br>authorized band<br>for Band41  | Pass   |
|                                                                                                                  | 3.85                    | 39.78           | 0.015329  |                                          |        |
|                                                                                                                  | 4.40                    | 17.55           | 0.006763  |                                          |        |
| Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report. |                         |                 |           |                                          |        |

## LTE Band 66 part:

| Reference Frequency: LTE Band 66 (10MHz) Middle channel=132322 Frequency=1745.0MHz |                  |                 |           |                                    |        |
|------------------------------------------------------------------------------------|------------------|-----------------|-----------|------------------------------------|--------|
| Temperature                                                                        |                  |                 |           |                                    |        |
| Power supplied (Vdc)                                                               | Temperature (°C) | Frequency error |           | Limit (ppm)                        | Result |
|                                                                                    |                  | Hz              | ppm       |                                    |        |
| QPSK                                                                               |                  |                 |           |                                    |        |
| 3.85                                                                               | -30              | -8.68           | -0.004974 | Within authorized band for Band 66 | Pass   |
|                                                                                    | -20              | -45.78          | -0.026235 |                                    |        |
|                                                                                    | -10              | -27.59          | -0.015811 |                                    |        |
|                                                                                    | 0                | -36.54          | -0.020940 |                                    |        |
|                                                                                    | 10               | -42.31          | -0.024246 |                                    |        |
|                                                                                    | 20               | -4.39           | -0.002516 |                                    |        |
|                                                                                    | 30               | -17.88          | -0.010246 |                                    |        |
|                                                                                    | 40               | -25.06          | -0.014361 |                                    |        |
|                                                                                    | 50               | -33.07          | -0.018951 |                                    |        |
| 16QAM                                                                              |                  |                 |           |                                    |        |
| 3.85                                                                               | -30              | 11.39           | 0.006527  | Within authorized band for Band 66 | Pass   |
|                                                                                    | -20              | 21.16           | 0.012126  |                                    |        |
|                                                                                    | -10              | 33.37           | 0.019123  |                                    |        |
|                                                                                    | 0                | -17.68          | -0.010132 |                                    |        |
|                                                                                    | 10               | -13.45          | -0.007708 |                                    |        |
|                                                                                    | 20               | -22.14          | -0.012688 |                                    |        |
|                                                                                    | 30               | -22.12          | -0.012676 |                                    |        |
|                                                                                    | 40               | -10.60          | -0.006074 |                                    |        |
|                                                                                    | 50               | -4.92           | -0.002819 |                                    |        |
| 64QAM                                                                              |                  |                 |           |                                    |        |
| 3.85                                                                               | -30              | 30.36           | 0.017398  | Within authorized band for Band 66 | Pass   |
|                                                                                    | -20              | 4.99            | 0.002860  |                                    |        |
|                                                                                    | -10              | 15.11           | 0.008659  |                                    |        |
|                                                                                    | 0                | 29.31           | 0.016797  |                                    |        |
|                                                                                    | 10               | 9.71            | 0.005564  |                                    |        |
|                                                                                    | 20               | 29.34           | 0.016814  |                                    |        |
|                                                                                    | 30               | 18.20           | 0.010430  |                                    |        |
|                                                                                    | 40               | 23.52           | 0.013479  |                                    |        |
|                                                                                    | 50               | 29.17           | 0.016716  |                                    |        |

| Voltage                                                                                                          |                      |                 |           |                                    |        |
|------------------------------------------------------------------------------------------------------------------|----------------------|-----------------|-----------|------------------------------------|--------|
| Temperature (°C)                                                                                                 | Power supplied (Vdc) | Frequency error |           | Limit (ppm)                        | Result |
|                                                                                                                  |                      | Hz              | ppm       |                                    |        |
| QPSK                                                                                                             |                      |                 |           |                                    |        |
| 25                                                                                                               | 3.00                 | 31.56           | 0.018086  | Within authorized band for Band 66 | Pass   |
|                                                                                                                  | 3.85                 | 24.68           | 0.014143  |                                    |        |
|                                                                                                                  | 4.40                 | -15.01          | -0.008602 |                                    |        |
| 16QAM                                                                                                            |                      |                 |           |                                    |        |
| 25                                                                                                               | 3.00                 | -45.48          | -0.026063 | Within authorized band for Band 66 | Pass   |
|                                                                                                                  | 3.85                 | 4.38            | 0.002510  |                                    |        |
|                                                                                                                  | 4.40                 | 35.45           | 0.020315  |                                    |        |
| 64QAM                                                                                                            |                      |                 |           |                                    |        |
| 25                                                                                                               | 3.00                 | -8.01           | -0.004590 | Within authorized band for Band 66 | Pass   |
|                                                                                                                  | 3.85                 | -10.84          | -0.006212 |                                    |        |
|                                                                                                                  | 4.40                 | 14.05           | 0.008052  |                                    |        |
| Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report. |                      |                 |           |                                    |        |