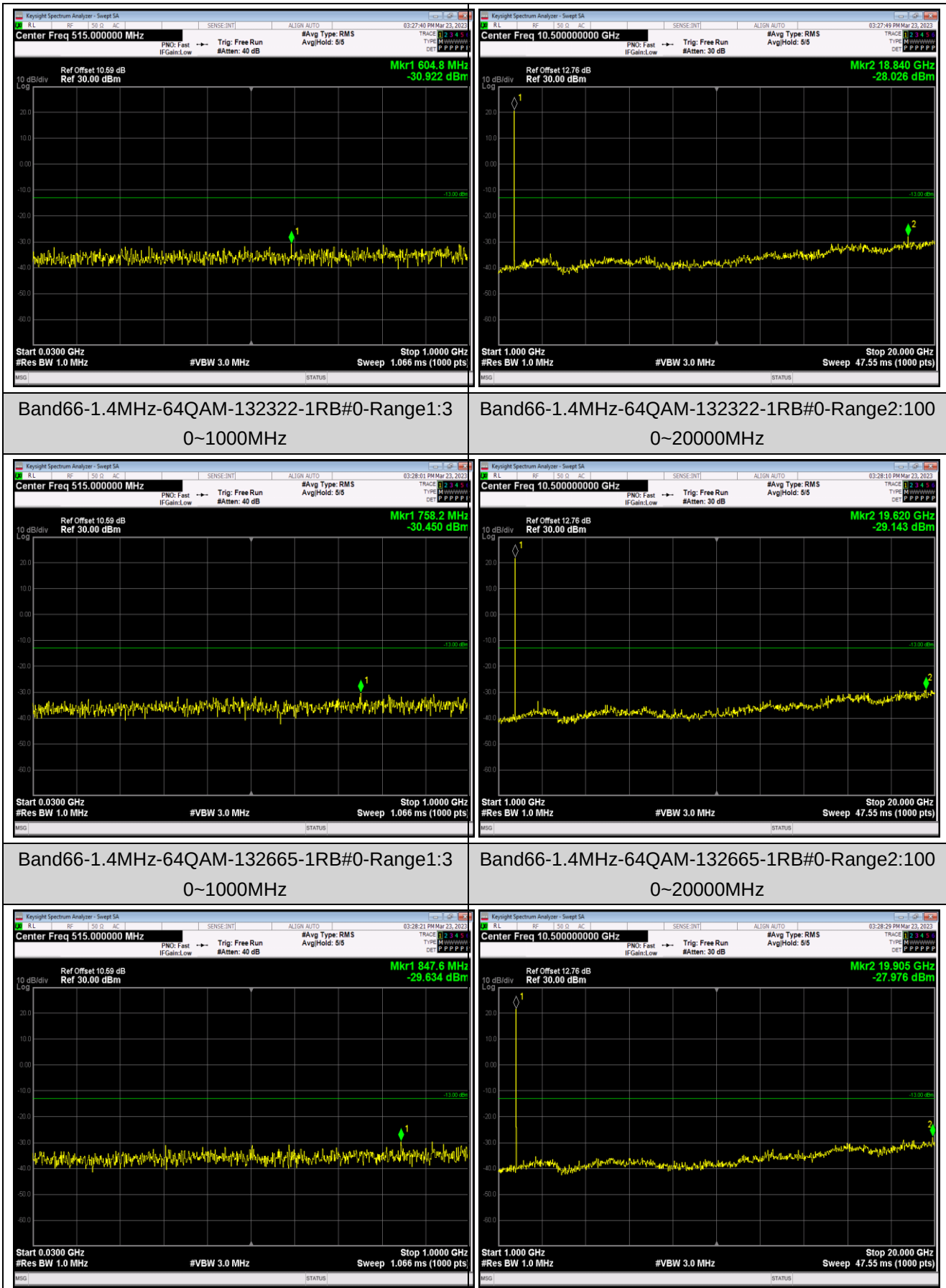


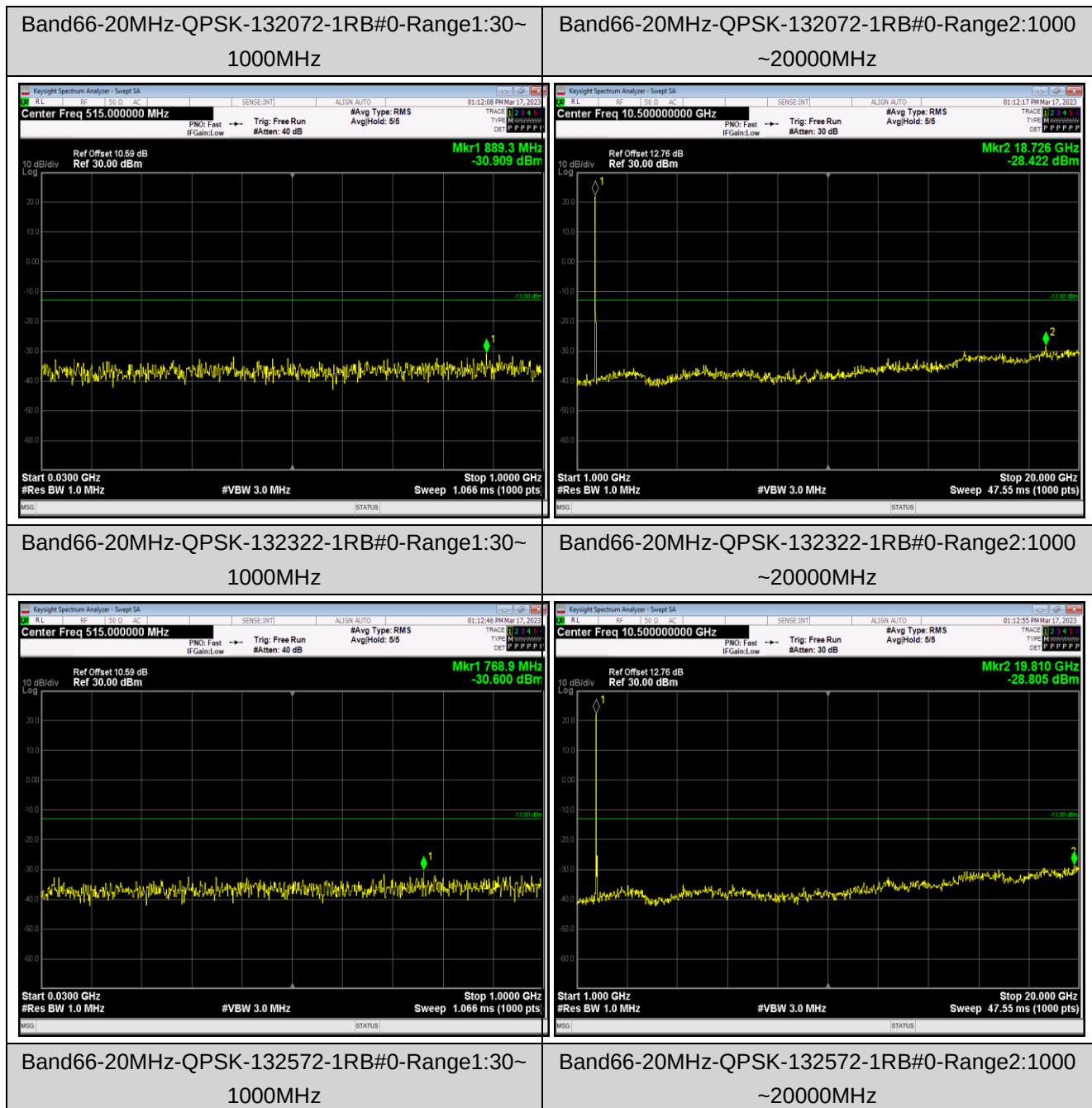


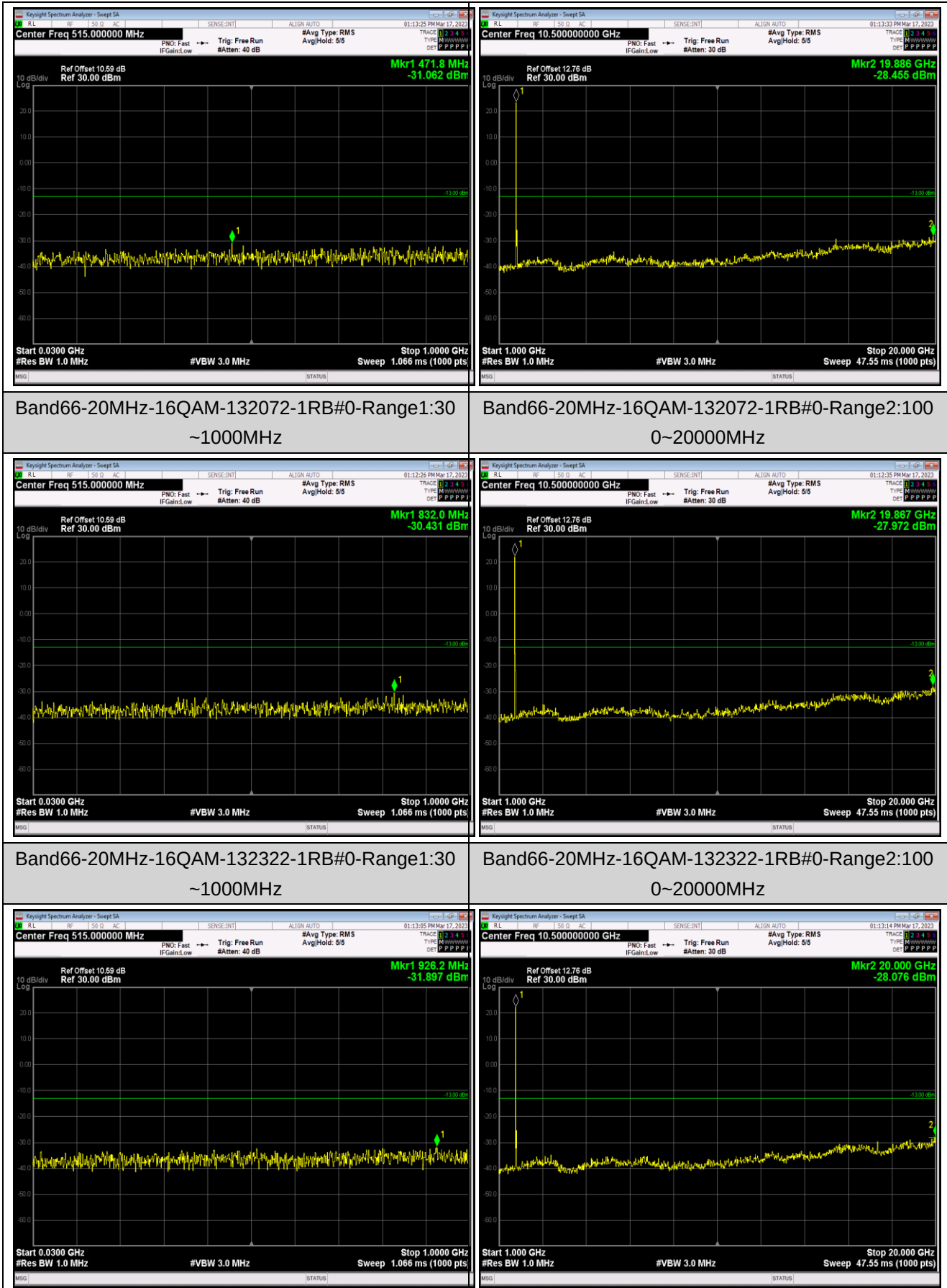
Band66-1.4MHz-64QAM-132322-1RB#0-Range1:3  
0~1000MHz

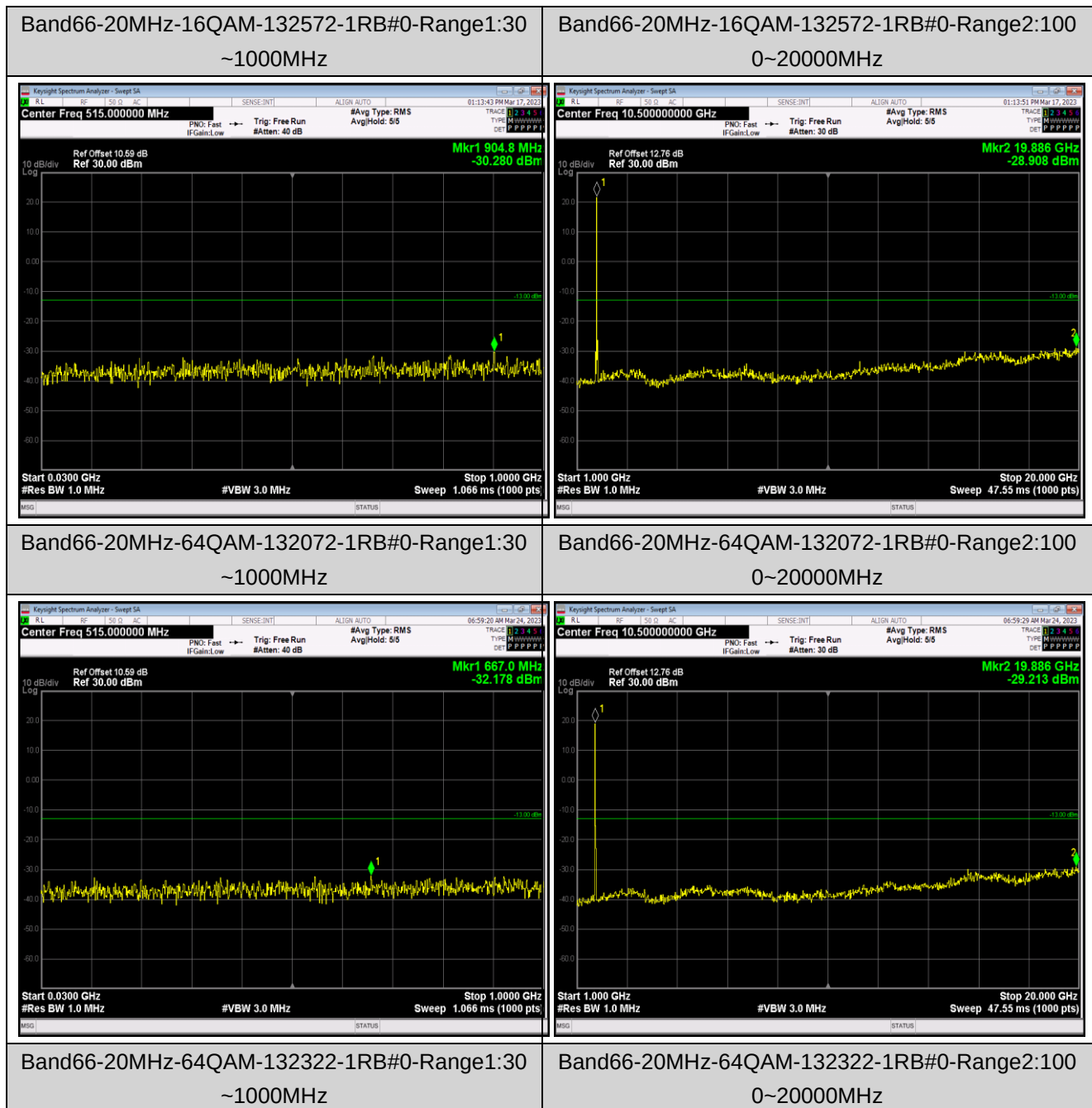
Band66-1.4MHz-64QAM-132322-1RB#0-Range2:100  
0~20000MHz

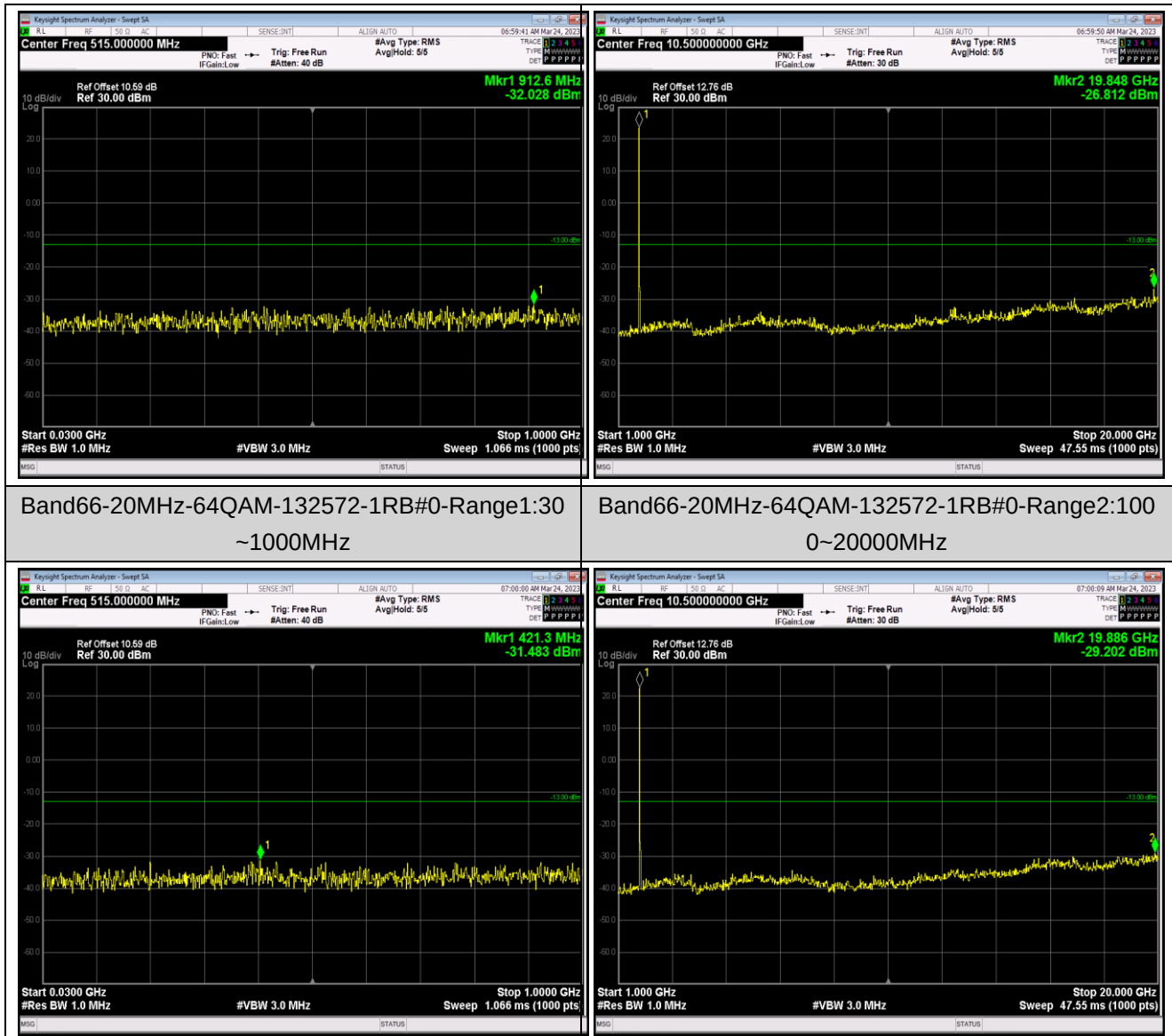
Band66-1.4MHz-64QAM-132665-1RB#0-Range1:3  
0~1000MHz

Band66-1.4MHz-64QAM-132665-1RB#0-Range2:100  
0~20000MHz









## Appendix F: Frequency Stability

### Test Result

LTE Band 2 part:

| Reference Frequency: LTE Band 2 (10MHz) Middle channel=18900 Frequency=1880.0MHz |                  |                 |           |                                   |        |
|----------------------------------------------------------------------------------|------------------|-----------------|-----------|-----------------------------------|--------|
| Temperature                                                                      |                  |                 |           |                                   |        |
| Power supplied (Vdc)                                                             | Temperature (°C) | Frequency error |           | Limit (ppm)                       | Result |
|                                                                                  |                  | Hz              | ppm       |                                   |        |
| QPSK                                                                             |                  |                 |           |                                   |        |
| 3.85                                                                             | -30              | -13.98          | -0.007436 | Within authorized band for Band 2 | Pass   |
|                                                                                  | -20              | -9.91           | -0.005271 |                                   |        |
|                                                                                  | -10              | -15.99          | -0.008505 |                                   |        |
|                                                                                  | 0                | -21.06          | -0.011202 |                                   |        |
|                                                                                  | 10               | -12.27          | -0.006527 |                                   |        |
|                                                                                  | 20               | -10.36          | -0.005511 |                                   |        |
|                                                                                  | 30               | -12.80          | -0.006809 |                                   |        |
|                                                                                  | 40               | -16.89          | -0.008984 |                                   |        |
|                                                                                  | 50               | -7.54           | -0.004011 |                                   |        |
| 16QAM                                                                            |                  |                 |           |                                   |        |
| 3.85                                                                             | -30              | 1.73            | 0.000920  | Within authorized band for Band 2 | Pass   |
|                                                                                  | -20              | -19.04          | -0.010128 |                                   |        |
|                                                                                  | -10              | -9.11           | -0.004846 |                                   |        |
|                                                                                  | 0                | -8.28           | -0.004404 |                                   |        |
|                                                                                  | 10               | -5.31           | -0.002824 |                                   |        |
|                                                                                  | 20               | -4.52           | -0.002404 |                                   |        |
|                                                                                  | 30               | -1.54           | -0.000819 |                                   |        |
|                                                                                  | 40               | -19.56          | -0.010404 |                                   |        |
|                                                                                  | 50               | -15.51          | -0.008250 |                                   |        |
| 64QAM                                                                            |                  |                 |           |                                   |        |
| 3.85                                                                             | -30              | -7.35           | -0.003910 | Within authorized band for Band 2 | Pass   |
|                                                                                  | -20              | -15.32          | -0.008149 |                                   |        |
|                                                                                  | -10              | -10.19          | -0.005420 |                                   |        |
|                                                                                  | 0                | -9.16           | -0.004872 |                                   |        |
|                                                                                  | 10               | -16.32          | -0.008681 |                                   |        |
|                                                                                  | 20               | -8.33           | -0.004431 |                                   |        |
|                                                                                  | 30               | -23.47          | -0.012484 |                                   |        |
|                                                                                  | 40               | -22.30          | -0.011862 |                                   |        |
|                                                                                  | 50               | -5.22           | -0.002777 |                                   |        |
| Voltage                                                                          |                  |                 |           |                                   |        |
| Temperature                                                                      | Power supplied   | Frequency error |           | Limit (ppm)                       | Result |

| (°C)                                                                                                             | (Vdc) | Hz     | ppm       |                                      |      |
|------------------------------------------------------------------------------------------------------------------|-------|--------|-----------|--------------------------------------|------|
| QPSK                                                                                                             |       |        |           |                                      |      |
| 25                                                                                                               | 3.50  | -14.05 | -0.007473 | Within authorized<br>band for Band 2 | Pass |
|                                                                                                                  | 3.85  | -16.87 | -0.008973 |                                      |      |
|                                                                                                                  | 4.40  | -12.13 | -0.006452 |                                      |      |
| 16QAM                                                                                                            |       |        |           |                                      |      |
| 25                                                                                                               | 3.50  | 4.19   | 0.002229  | Within authorized<br>band for Band 2 | Pass |
|                                                                                                                  | 3.85  | -14.59 | -0.007761 |                                      |      |
|                                                                                                                  | 4.40  | -12.75 | -0.006782 |                                      |      |
| 64QAM                                                                                                            |       |        |           |                                      |      |
| 25                                                                                                               | 3.50  | -15.23 | -0.008101 | Within authorized<br>band for Band 2 | Pass |
|                                                                                                                  | 3.85  | -18.88 | -0.010043 |                                      |      |
|                                                                                                                  | 4.40  | -24.48 | -0.013021 |                                      |      |
| 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 supplied (Vdc)                                                            | Temperature (°C)     | Frequency error |           | Limit (ppm)                       | Result |
|                                                                                 |                      | Hz              | ppm       |                                   |        |
| QPSK                                                                            |                      |                 |           |                                   |        |
| 3.85                                                                            | -30                  | -4.65           | -0.001834 | Within authorized band for Band 7 | Pass   |
|                                                                                 | -20                  | 5.19            | 0.002047  |                                   |        |
|                                                                                 | -10                  | -13.76          | -0.005428 |                                   |        |
|                                                                                 | 0                    | -14.20          | -0.005602 |                                   |        |
|                                                                                 | 10                   | -13.86          | -0.005467 |                                   |        |
|                                                                                 | 20                   | -14.26          | -0.005625 |                                   |        |
|                                                                                 | 30                   | -11.82          | -0.004663 |                                   |        |
|                                                                                 | 40                   | -11.86          | -0.004679 |                                   |        |
|                                                                                 | 50                   | -11.47          | -0.004525 |                                   |        |
| 16QAM                                                                           |                      |                 |           |                                   |        |
| 3.85                                                                            | -30                  | -14.53          | -0.005732 | Within authorized band for Band 7 | Pass   |
|                                                                                 | -20                  | -15.96          | -0.006296 |                                   |        |
|                                                                                 | -10                  | 11.49           | 0.004533  |                                   |        |
|                                                                                 | 0                    | -19.40          | -0.007653 |                                   |        |
|                                                                                 | 10                   | -12.82          | -0.005057 |                                   |        |
|                                                                                 | 20                   | -20.63          | -0.008138 |                                   |        |
|                                                                                 | 30                   | -11.54          | -0.004552 |                                   |        |
|                                                                                 | 40                   | -14.08          | -0.005554 |                                   |        |
|                                                                                 | 50                   | -14.36          | -0.005665 |                                   |        |
| 64QAM                                                                           |                      |                 |           |                                   |        |
| 3.85                                                                            | -30                  | -15.81          | -0.006237 | Within authorized band for Band 7 | Pass   |
|                                                                                 | -20                  | -25.35          | -0.010000 |                                   |        |
|                                                                                 | -10                  | -19.51          | -0.007696 |                                   |        |
|                                                                                 | 0                    | -27.25          | -0.010750 |                                   |        |
|                                                                                 | 10                   | -14.22          | -0.005609 |                                   |        |
|                                                                                 | 20                   | -14.13          | -0.005574 |                                   |        |
|                                                                                 | 30                   | -6.64           | -0.002619 |                                   |        |
|                                                                                 | 40                   | -40.61          | -0.016020 |                                   |        |
|                                                                                 | 50                   | -30.11          | -0.011878 |                                   |        |
| Voltage                                                                         |                      |                 |           |                                   |        |
| Temperature (°C)                                                                | Power supplied (Vdc) | Frequency error |           | Limit (ppm)                       | Result |
|                                                                                 |                      | Hz              | ppm       |                                   |        |
| QPSK                                                                            |                      |                 |           |                                   |        |

|                                                                                                                  |      |        |           |                                      |      |
|------------------------------------------------------------------------------------------------------------------|------|--------|-----------|--------------------------------------|------|
| 25                                                                                                               | 3.50 | 13.88  | 0.005475  | Within authorized<br>band for Band 7 | Pass |
|                                                                                                                  | 3.85 | -13.95 | -0.005503 |                                      |      |
|                                                                                                                  | 4.40 | -16.87 | -0.006655 |                                      |      |
| 16QAM                                                                                                            |      |        |           |                                      |      |
| 25                                                                                                               | 3.50 | -19.58 | -0.007724 | Within authorized<br>band for Band 7 | Pass |
|                                                                                                                  | 3.85 | -14.95 | -0.005897 |                                      |      |
|                                                                                                                  | 4.40 | 5.14   | 0.002028  |                                      |      |
| 64QAM                                                                                                            |      |        |           |                                      |      |
| 25                                                                                                               | 3.50 | -17.40 | -0.006864 | Within authorized<br>band for Band 7 | Pass |
|                                                                                                                  | 3.85 | -11.94 | -0.004710 |                                      |      |
|                                                                                                                  | 4.40 | -13.63 | -0.005377 |                                      |      |
| 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 supplied (Vdc)                                                            | Temperature (°C)     | Frequency error |           | Limit (ppm)                        | Result |
|                                                                                 |                      | Hz              | ppm       |                                    |        |
| QPSK                                                                            |                      |                 |           |                                    |        |
| 3.85                                                                            | -30                  | -7.97           | -0.011265 | Within authorized band for Band 12 | Pass   |
|                                                                                 | -20                  | -6.41           | -0.009060 |                                    |        |
|                                                                                 | -10                  | -5.35           | -0.007562 |                                    |        |
|                                                                                 | 0                    | -3.55           | -0.005018 |                                    |        |
|                                                                                 | 10                   | -3.45           | -0.004876 |                                    |        |
|                                                                                 | 20                   | -7.25           | -0.010247 |                                    |        |
|                                                                                 | 30                   | -11.39          | -0.016099 |                                    |        |
|                                                                                 | 40                   | -11.00          | -0.015548 |                                    |        |
|                                                                                 | 50                   | -10.17          | -0.014375 |                                    |        |
| 16QAM                                                                           |                      |                 |           |                                    |        |
| 3.85                                                                            | -30                  | -5.08           | -0.007180 | Within authorized band for Band 12 | Pass   |
|                                                                                 | -20                  | -8.84           | -0.012495 |                                    |        |
|                                                                                 | -10                  | -10.77          | -0.015223 |                                    |        |
|                                                                                 | 0                    | -12.04          | -0.017018 |                                    |        |
|                                                                                 | 10                   | -7.77           | -0.010982 |                                    |        |
|                                                                                 | 20                   | -13.28          | -0.018770 |                                    |        |
|                                                                                 | 30                   | -11.36          | -0.016057 |                                    |        |
|                                                                                 | 40                   | -7.28           | -0.010290 |                                    |        |
|                                                                                 | 50                   | -8.67           | -0.012254 |                                    |        |
| 64QAM                                                                           |                      |                 |           |                                    |        |
| 3.85                                                                            | -30                  | -4.36           | -0.006163 | Within authorized band for Band 12 | Pass   |
|                                                                                 | -20                  | -11.59          | -0.016382 |                                    |        |
|                                                                                 | -10                  | -13.13          | -0.018558 |                                    |        |
|                                                                                 | 0                    | -9.00           | -0.012721 |                                    |        |
|                                                                                 | 10                   | -9.57           | -0.013527 |                                    |        |
|                                                                                 | 20                   | -8.85           | -0.012509 |                                    |        |
|                                                                                 | 30                   | -8.74           | -0.012353 |                                    |        |
|                                                                                 | 40                   | -7.45           | -0.010530 |                                    |        |
|                                                                                 | 50                   | -12.53          | -0.017710 |                                    |        |
| Voltage                                                                         |                      |                 |           |                                    |        |
| Temperature (°C)                                                                | Power supplied (Vdc) | Frequency error |           | Limit (ppm)                        | Result |
|                                                                                 |                      | Hz              | ppm       |                                    |        |
| QPSK                                                                            |                      |                 |           |                                    |        |

|                                                                                                                  |      |        |           |                                       |      |
|------------------------------------------------------------------------------------------------------------------|------|--------|-----------|---------------------------------------|------|
| 25                                                                                                               | 3.50 | -11.01 | -0.015562 | Within authorized<br>band for Band 12 | Pass |
|                                                                                                                  | 3.85 | -14.22 | -0.020099 |                                       |      |
|                                                                                                                  | 4.40 | -3.45  | -0.004876 |                                       |      |
| 16QAM                                                                                                            |      |        |           |                                       |      |
| 25                                                                                                               | 3.50 | -5.28  | -0.007463 | Within authorized<br>band for Band 12 | Pass |
|                                                                                                                  | 3.85 | -10.13 | -0.014318 |                                       |      |
|                                                                                                                  | 4.40 | -8.65  | -0.012226 |                                       |      |
| 64QAM                                                                                                            |      |        |           |                                       |      |
| 25                                                                                                               | 3.50 | -6.68  | -0.009442 | Within authorized<br>band for Band 12 | Pass |
|                                                                                                                  | 3.85 | -12.46 | -0.017611 |                                       |      |
|                                                                                                                  | 4.40 | -4.23  | -0.005979 |                                       |      |
| Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report. |      |        |           |                                       |      |

## LTE Band 13 part:

| Reference Frequency: LTE Band 13 (10MHz) Middle channel=23230 Frequency=782.0MHz |                      |                 |           |                                    |        |
|----------------------------------------------------------------------------------|----------------------|-----------------|-----------|------------------------------------|--------|
| Temperature                                                                      |                      |                 |           |                                    |        |
| Power supplied (Vdc)                                                             | Temperature (°C)     | Frequency error |           | Limit (ppm)                        | Result |
|                                                                                  |                      | Hz              | ppm       |                                    |        |
| QPSK                                                                             |                      |                 |           |                                    |        |
| 3.85                                                                             | -30                  | -13.38          | -0.017110 | Within authorized band for Band 13 | Pass   |
|                                                                                  | -20                  | -9.53           | -0.012187 |                                    |        |
|                                                                                  | -10                  | -14.23          | -0.018197 |                                    |        |
|                                                                                  | 0                    | -9.41           | -0.012033 |                                    |        |
|                                                                                  | 10                   | -9.76           | -0.012481 |                                    |        |
|                                                                                  | 20                   | -9.13           | -0.011675 |                                    |        |
|                                                                                  | 30                   | -10.91          | -0.013951 |                                    |        |
|                                                                                  | 40                   | -12.46          | -0.015934 |                                    |        |
|                                                                                  | 50                   | -11.27          | -0.014412 |                                    |        |
| 16QAM                                                                            |                      |                 |           |                                    |        |
| 3.85                                                                             | -30                  | -9.06           | -0.011586 | Within authorized band for Band 13 | Pass   |
|                                                                                  | -20                  | -9.10           | -0.011637 |                                    |        |
|                                                                                  | -10                  | -9.27           | -0.011854 |                                    |        |
|                                                                                  | 0                    | -7.21           | -0.009220 |                                    |        |
|                                                                                  | 10                   | -3.60           | -0.004604 |                                    |        |
|                                                                                  | 20                   | -12.03          | -0.015384 |                                    |        |
|                                                                                  | 30                   | -7.27           | -0.009297 |                                    |        |
|                                                                                  | 40                   | -14.12          | -0.018056 |                                    |        |
|                                                                                  | 50                   | -12.73          | -0.016279 |                                    |        |
| 64QAM                                                                            |                      |                 |           |                                    |        |
| 3.85                                                                             | -30                  | -10.10          | -0.012916 | Within authorized band for Band 13 | Pass   |
|                                                                                  | -20                  | -7.91           | -0.010115 |                                    |        |
|                                                                                  | -10                  | -10.77          | -0.013772 |                                    |        |
|                                                                                  | 0                    | 7.95            | 0.010166  |                                    |        |
|                                                                                  | 10                   | -14.55          | -0.018606 |                                    |        |
|                                                                                  | 20                   | -13.69          | -0.017506 |                                    |        |
|                                                                                  | 30                   | -14.59          | -0.018657 |                                    |        |
|                                                                                  | 40                   | -14.65          | -0.018734 |                                    |        |
|                                                                                  | 50                   | -8.04           | -0.010281 |                                    |        |
| Voltage                                                                          |                      |                 |           |                                    |        |
| Temperature (°C)                                                                 | Power supplied (Vdc) | Frequency error |           | Limit (ppm)                        | Result |
|                                                                                  |                      | Hz              | ppm       |                                    |        |
| QPSK                                                                             |                      |                 |           |                                    |        |

|                                                                                                                  |      |        |           |                                       |      |
|------------------------------------------------------------------------------------------------------------------|------|--------|-----------|---------------------------------------|------|
| 25                                                                                                               | 3.50 | -13.86 | -0.017724 | Within authorized<br>band for Band 13 | Pass |
|                                                                                                                  | 3.85 | -16.04 | -0.020512 |                                       |      |
|                                                                                                                  | 4.40 | -9.96  | -0.012737 |                                       |      |
| 16QAM                                                                                                            |      |        |           |                                       |      |
| 25                                                                                                               | 3.50 | -13.72 | -0.017545 | Within authorized<br>band for Band 13 | Pass |
|                                                                                                                  | 3.85 | -11.12 | -0.014220 |                                       |      |
|                                                                                                                  | 4.40 | -10.27 | -0.013133 |                                       |      |
| 64QAM                                                                                                            |      |        |           |                                       |      |
| 25                                                                                                               | 3.50 | -10.37 | -0.013261 | Within authorized<br>band for Band 13 | Pass |
|                                                                                                                  | 3.85 | -9.64  | -0.012327 |                                       |      |
|                                                                                                                  | 4.40 | -10.76 | -0.013760 |                                       |      |
| Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report. |      |        |           |                                       |      |

## LTE Band 17 part:

| Reference Frequency: LTE Band 17(10MHz) Middle channel=23790 Frequency=710.0MHz |                      |                 |           |                                    |        |
|---------------------------------------------------------------------------------|----------------------|-----------------|-----------|------------------------------------|--------|
| Temperature                                                                     |                      |                 |           |                                    |        |
| Power supplied (Vdc)                                                            | Temperature (°C)     | Frequency error |           | Limit (ppm)                        | Result |
|                                                                                 |                      | Hz              | ppm       |                                    |        |
| QPSK                                                                            |                      |                 |           |                                    |        |
| 3.85                                                                            | -30                  | -5.51           | -0.007761 | Within authorized band for Band 17 | Pass   |
|                                                                                 | -20                  | -9.26           | -0.013042 |                                    |        |
|                                                                                 | -10                  | -10.06          | -0.014169 |                                    |        |
|                                                                                 | 0                    | -7.70           | -0.010845 |                                    |        |
|                                                                                 | 10                   | -6.74           | -0.009493 |                                    |        |
|                                                                                 | 20                   | -13.79          | -0.019423 |                                    |        |
|                                                                                 | 30                   | -6.88           | -0.009690 |                                    |        |
|                                                                                 | 40                   | -8.24           | -0.011606 |                                    |        |
|                                                                                 | 50                   | -4.92           | -0.006930 |                                    |        |
| 16QAM                                                                           |                      |                 |           |                                    |        |
| 3.85                                                                            | -30                  | -12.22          | -0.017211 | Within authorized band for Band 17 | Pass   |
|                                                                                 | -20                  | -7.71           | -0.010859 |                                    |        |
|                                                                                 | -10                  | -9.57           | -0.013479 |                                    |        |
|                                                                                 | 0                    | -9.08           | -0.012789 |                                    |        |
|                                                                                 | 10                   | -8.53           | -0.012014 |                                    |        |
|                                                                                 | 20                   | -11.94          | -0.016817 |                                    |        |
|                                                                                 | 30                   | -10.17          | -0.014324 |                                    |        |
|                                                                                 | 40                   | -10.70          | -0.015070 |                                    |        |
|                                                                                 | 50                   | -9.47           | -0.013338 |                                    |        |
| 64QAM                                                                           |                      |                 |           |                                    |        |
| 3.85                                                                            | -30                  | -12.19          | -0.017169 | Within authorized band for Band 17 | Pass   |
|                                                                                 | -20                  | -13.85          | -0.019507 |                                    |        |
|                                                                                 | -10                  | -12.13          | -0.017085 |                                    |        |
|                                                                                 | 0                    | -10.77          | -0.015169 |                                    |        |
|                                                                                 | 10                   | -12.90          | -0.018169 |                                    |        |
|                                                                                 | 20                   | -11.56          | -0.016282 |                                    |        |
|                                                                                 | 30                   | -12.30          | -0.017324 |                                    |        |
|                                                                                 | 40                   | -10.20          | -0.014366 |                                    |        |
|                                                                                 | 50                   | -8.14           | -0.011465 |                                    |        |
| Voltage                                                                         |                      |                 |           |                                    |        |
| Temperature (°C)                                                                | Power supplied (Vdc) | Frequency error |           | Limit (ppm)                        | Result |
|                                                                                 |                      | Hz              | ppm       |                                    |        |
| QPSK                                                                            |                      |                 |           |                                    |        |

|                                                                                                                  |      |        |           |                                       |      |
|------------------------------------------------------------------------------------------------------------------|------|--------|-----------|---------------------------------------|------|
| 25                                                                                                               | 3.50 | -5.55  | -0.007817 | Within authorized<br>band for Band 17 | Pass |
|                                                                                                                  | 3.85 | -12.92 | -0.018197 |                                       |      |
|                                                                                                                  | 4.40 | -9.56  | -0.013465 |                                       |      |
| 16QAM                                                                                                            |      |        |           |                                       |      |
| 25                                                                                                               | 3.50 | -11.72 | -0.016507 | Within authorized<br>band for Band 17 | Pass |
|                                                                                                                  | 3.85 | -9.63  | -0.013563 |                                       |      |
|                                                                                                                  | 4.40 | -12.69 | -0.017873 |                                       |      |
| 64QAM                                                                                                            |      |        |           |                                       |      |
| 25                                                                                                               | 3.50 | -7.32  | -0.010310 | Within authorized<br>band for Band 17 | Pass |
|                                                                                                                  | 3.85 | -7.94  | -0.011183 |                                       |      |
|                                                                                                                  | 4.40 | -14.35 | -0.020211 |                                       |      |
| Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report. |      |        |           |                                       |      |

## LTE Band 25 part:

| Reference Frequency: LTE Band 25 (10MHz) Middle channel=26365 Frequency=1882.50MHz |                      |                 |           |                                    |        |
|------------------------------------------------------------------------------------|----------------------|-----------------|-----------|------------------------------------|--------|
| Temperature                                                                        |                      |                 |           |                                    |        |
| Power supplied (Vdc)                                                               | Temperature (°C)     | Frequency error |           | Limit (ppm)                        | Result |
|                                                                                    |                      | Hz              | ppm       |                                    |        |
| QPSK                                                                               |                      |                 |           |                                    |        |
| 3.85                                                                               | -30                  | -15.28          | -0.008117 | Within authorized band for Band 25 | Pass   |
|                                                                                    | -20                  | -20.91          | -0.011108 |                                    |        |
|                                                                                    | -10                  | -14.73          | -0.007825 |                                    |        |
|                                                                                    | 0                    | -9.68           | -0.005142 |                                    |        |
|                                                                                    | 10                   | -15.11          | -0.008027 |                                    |        |
|                                                                                    | 20                   | -12.27          | -0.006518 |                                    |        |
|                                                                                    | 30                   | -11.54          | -0.006130 |                                    |        |
|                                                                                    | 40                   | 2.88            | 0.001530  |                                    |        |
|                                                                                    | 50                   | -18.34          | -0.009742 |                                    |        |
| 16QAM                                                                              |                      |                 |           |                                    |        |
| 3.85                                                                               | -30                  | -12.85          | -0.006826 | Within authorized band for Band 25 | Pass   |
|                                                                                    | -20                  | -10.99          | -0.005838 |                                    |        |
|                                                                                    | -10                  | -8.98           | -0.004770 |                                    |        |
|                                                                                    | 0                    | -16.09          | -0.008547 |                                    |        |
|                                                                                    | 10                   | -11.23          | -0.005965 |                                    |        |
|                                                                                    | 20                   | -17.88          | -0.009498 |                                    |        |
|                                                                                    | 30                   | -13.50          | -0.007171 |                                    |        |
|                                                                                    | 40                   | -17.15          | -0.009110 |                                    |        |
|                                                                                    | 50                   | -13.82          | -0.007341 |                                    |        |
| 64QAM                                                                              |                      |                 |           |                                    |        |
| 3.85                                                                               | -30                  | -35.02          | -0.018603 | Within authorized band for Band 25 | Pass   |
|                                                                                    | -20                  | -20.77          | -0.011033 |                                    |        |
|                                                                                    | -10                  | -24.39          | -0.012956 |                                    |        |
|                                                                                    | 0                    | -26.16          | -0.013896 |                                    |        |
|                                                                                    | 10                   | -4.52           | -0.002401 |                                    |        |
|                                                                                    | 20                   | -16.34          | -0.008680 |                                    |        |
|                                                                                    | 30                   | -3.13           | -0.001663 |                                    |        |
|                                                                                    | 40                   | -12.76          | -0.006778 |                                    |        |
|                                                                                    | 50                   | -20.94          | -0.011124 |                                    |        |
| Voltage                                                                            |                      |                 |           |                                    |        |
| Temperature (°C)                                                                   | Power supplied (Vdc) | Frequency error |           | Limit (ppm)                        | Result |
|                                                                                    |                      | Hz              | ppm       |                                    |        |
| QPSK                                                                               |                      |                 |           |                                    |        |

|                                                                                                                  |      |        |           |                                       |      |
|------------------------------------------------------------------------------------------------------------------|------|--------|-----------|---------------------------------------|------|
| 25                                                                                                               | 3.50 | -21.73 | -0.011543 | Within authorized<br>band for Band 25 | Pass |
|                                                                                                                  | 3.85 | -13.50 | -0.007171 |                                       |      |
|                                                                                                                  | 4.40 | -19.17 | -0.010183 |                                       |      |
| 16QAM                                                                                                            |      |        |           |                                       |      |
| 25                                                                                                               | 3.50 | -13.59 | -0.007219 | Within authorized<br>band for Band 25 | Pass |
|                                                                                                                  | 3.85 | -15.13 | -0.008037 |                                       |      |
|                                                                                                                  | 4.40 | -10.06 | -0.005344 |                                       |      |
| 64QAM                                                                                                            |      |        |           |                                       |      |
| 25                                                                                                               | 3.50 | -27.28 | -0.014491 | Within authorized<br>band for Band 25 | Pass |
|                                                                                                                  | 3.85 | -24.48 | -0.013004 |                                       |      |
|                                                                                                                  | 4.40 | -16.95 | -0.009004 |                                       |      |
| Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report. |      |        |           |                                       |      |