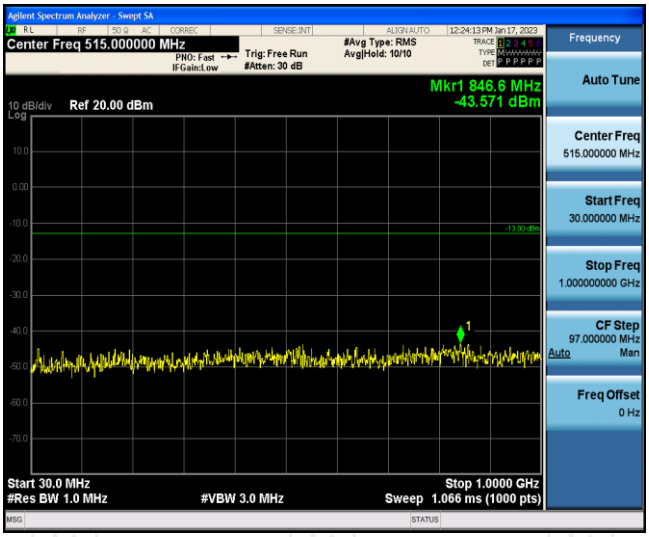
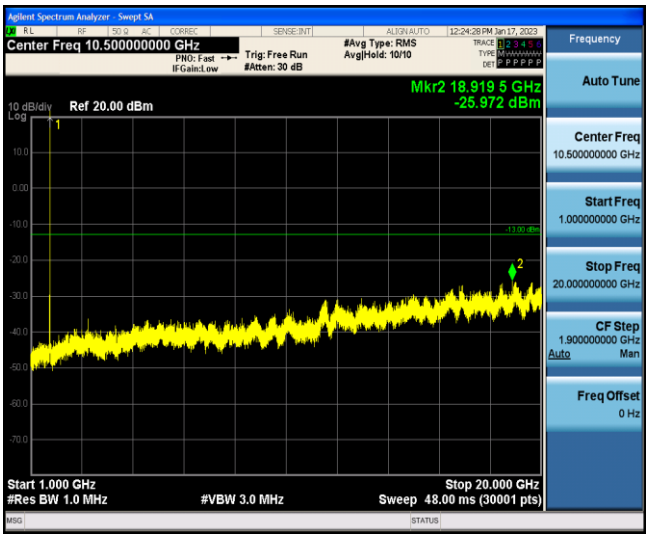
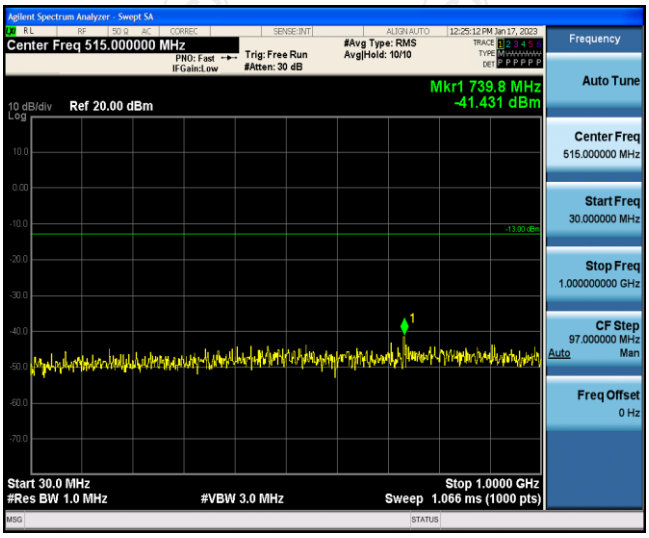


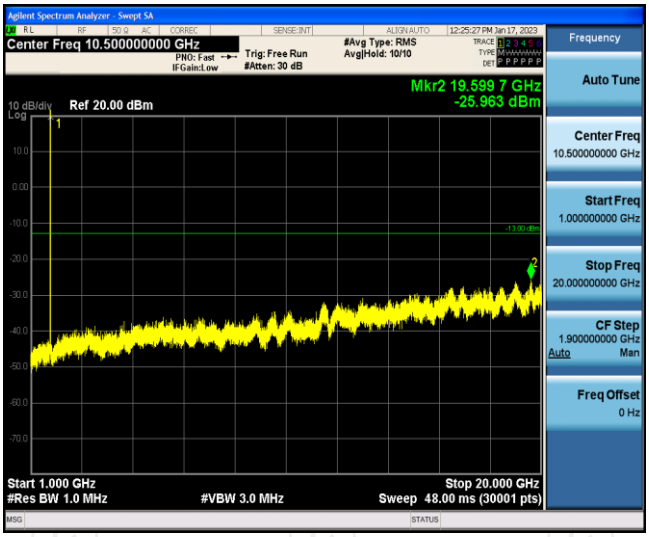

Band4-5MHz-QPSK-19975-1RB#0-Range2:1000~20000MHz



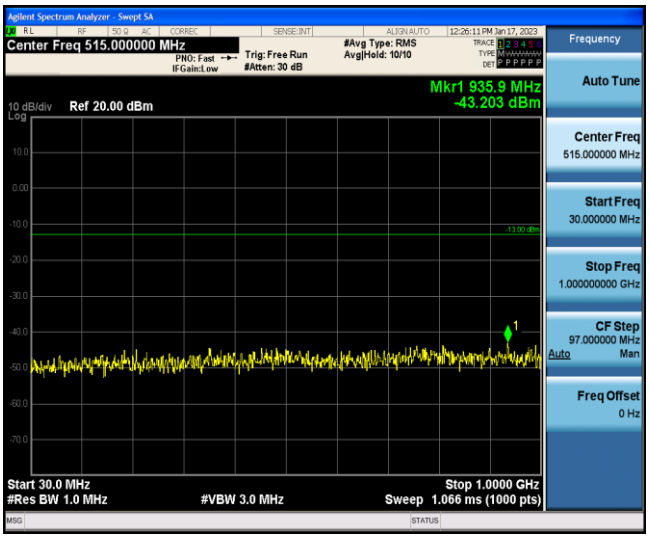

Band4-5MHz-QPSK-20175-1RB#0-Range1:30~1000MHz



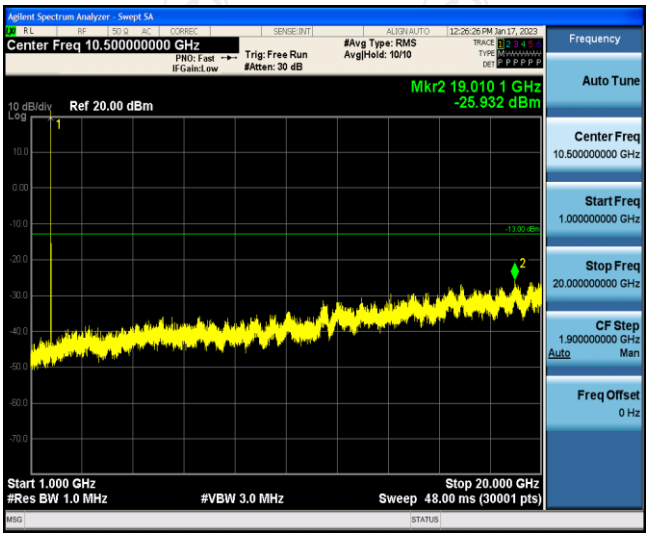

Band4-5MHz-QPSK-20175-1RB#0-Range2:1000~20000MHz



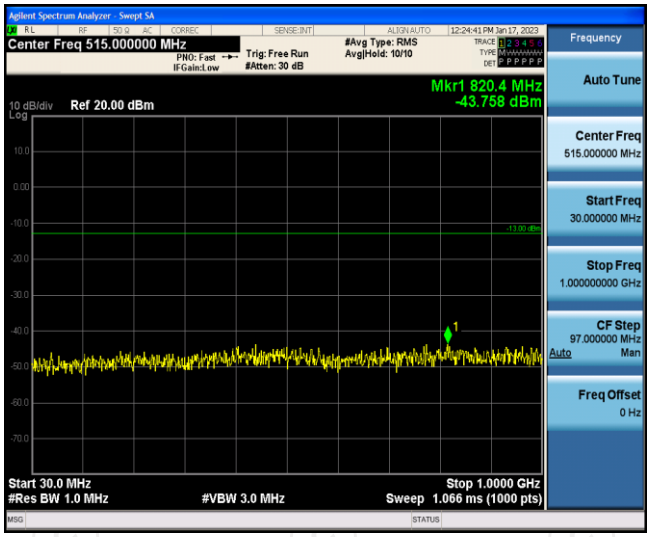

Band4-5MHz-QPSK-20375-1RB#0-Range1:30~1000MHz



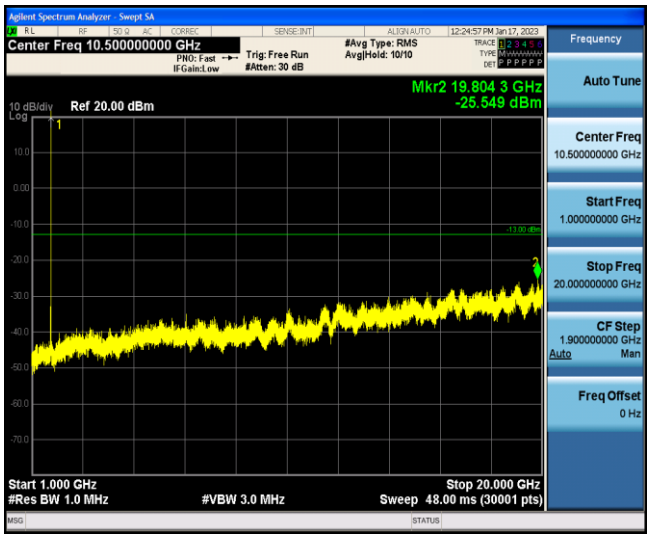

Band4-5MHz-QPSK-20375-1RB#0-Range2:1000~20000MHz



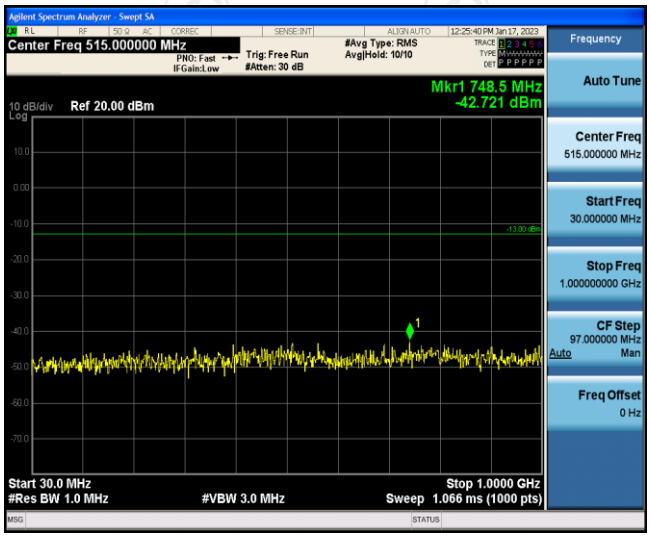

Band4-5MHz-16QAM-19975-1RB#0-Range1:30~1000MHz



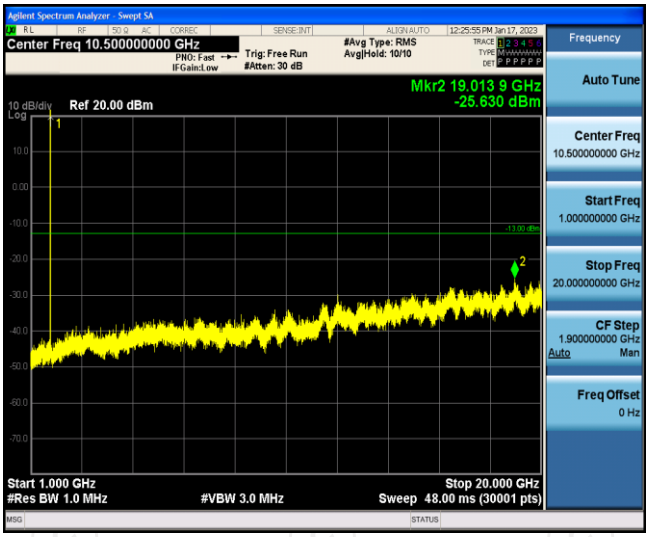

Band4-5MHz-16QAM-19975-1RB#0-Range2:1000~20000MHz



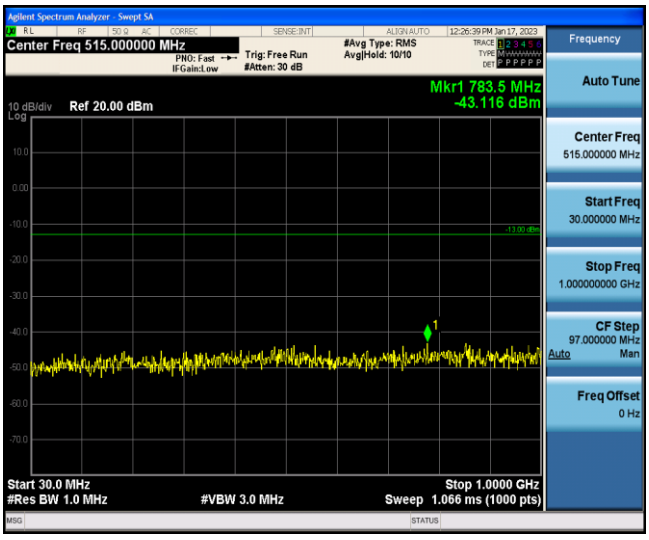

Band4-5MHz-16QAM-20175-1RB#0-Range1:30~1000MHz



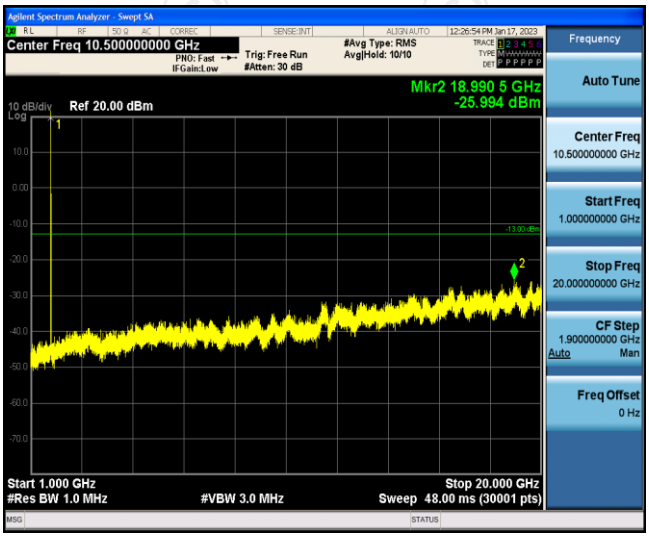

Band4-5MHz-16QAM-20175-1RB#0-Range2:1000~20000MHz



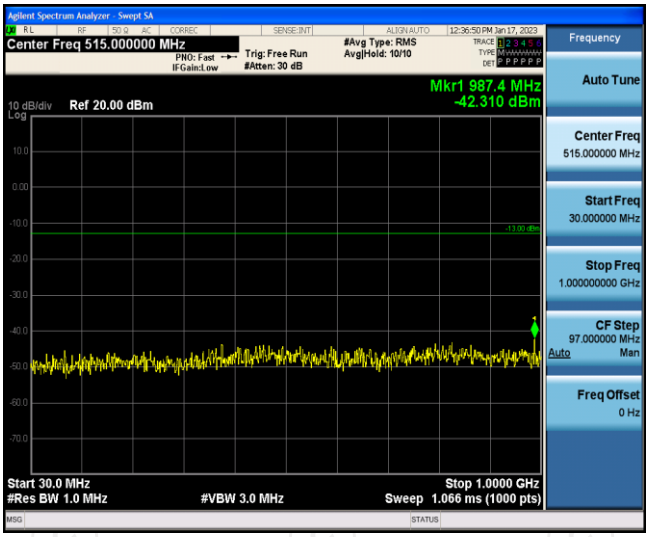

Band4-5MHz-16QAM-20375-1RB#0-Range1:30~1000MHz



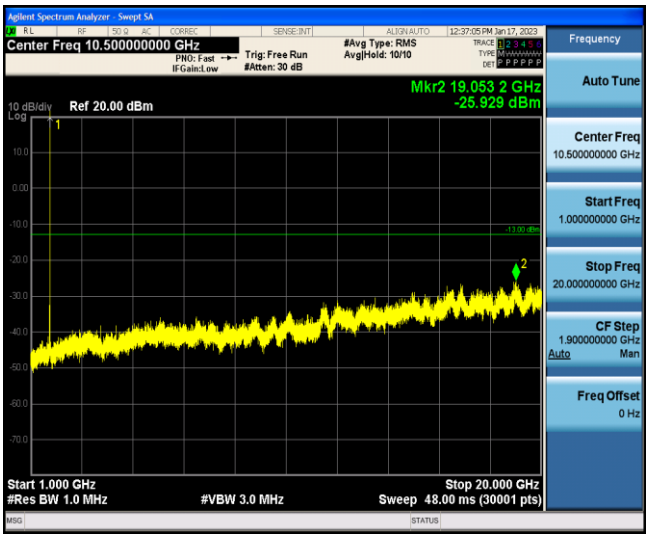

Band4-5MHz-16QAM-20375-1RB#0-Range2:1000~20000MHz



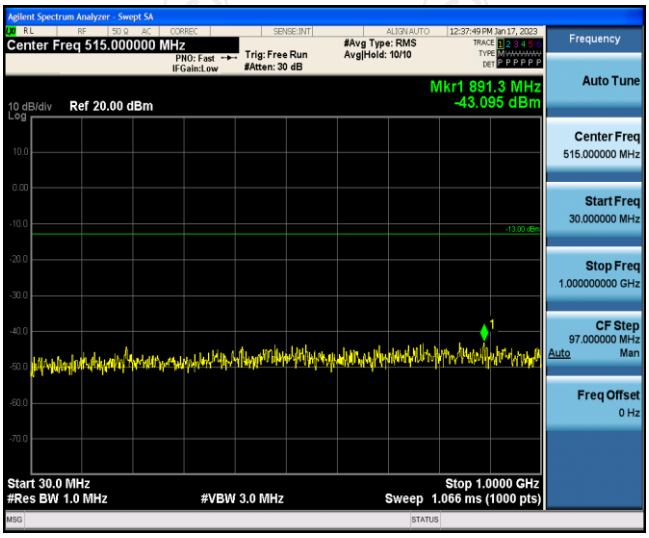

Band4-10MHz-QPSK-20000-1RB#0-Range1:30~1000MHz



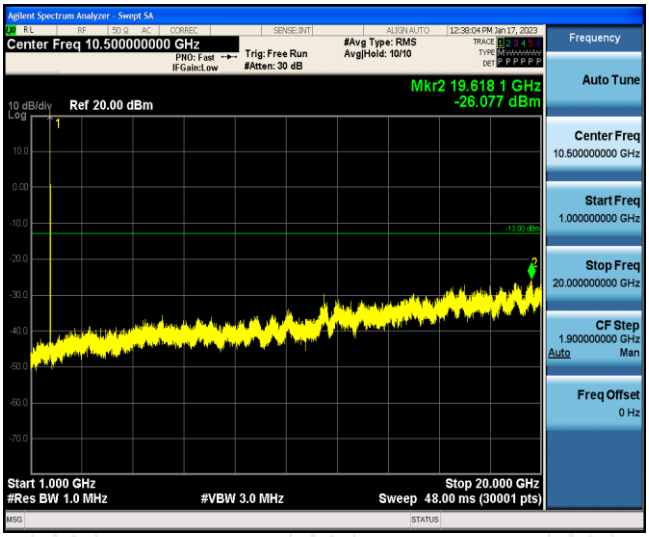

Band4-10MHz-QPSK-20000-1RB#0-Range2:1000~20000MHz



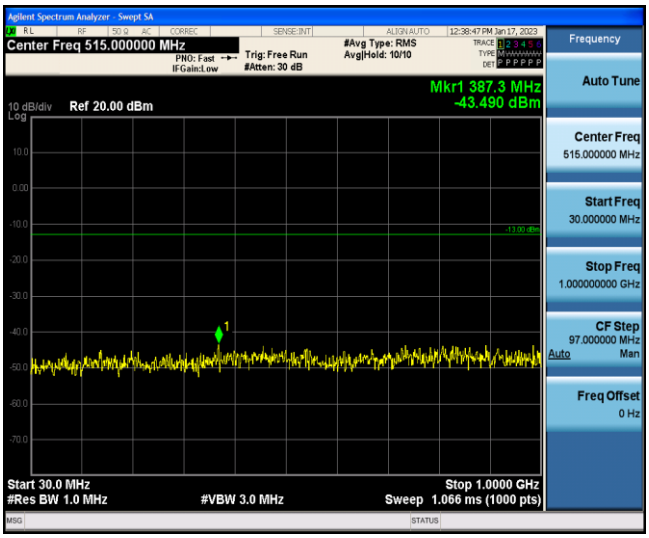

Band4-10MHz-QPSK-20175-1RB#0-Range1:30~1000MHz



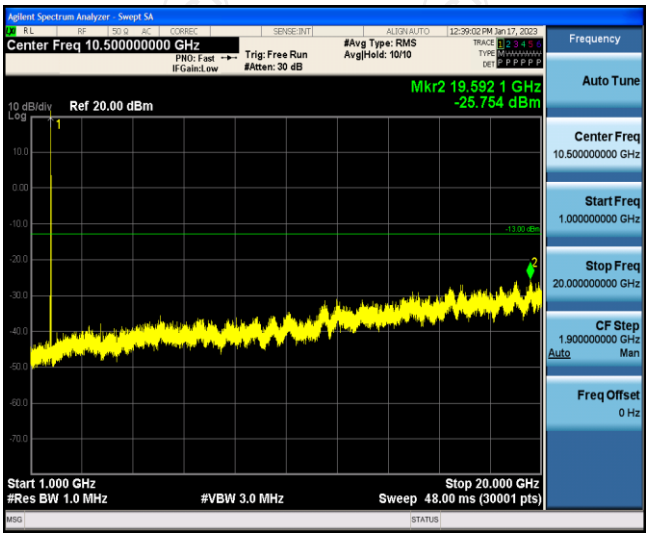

Band4-10MHz-QPSK-20175-1RB#0-Range2:1000~20000MHz



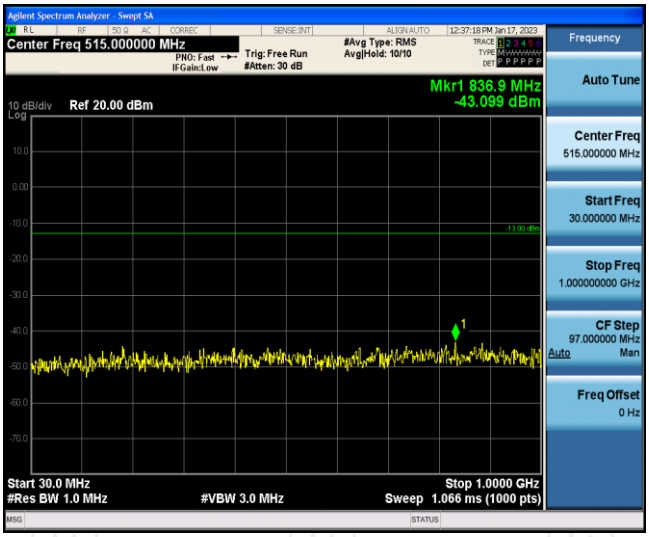

Band4-10MHz-QPSK-20350-1RB#0-Range1:30~1000MHz



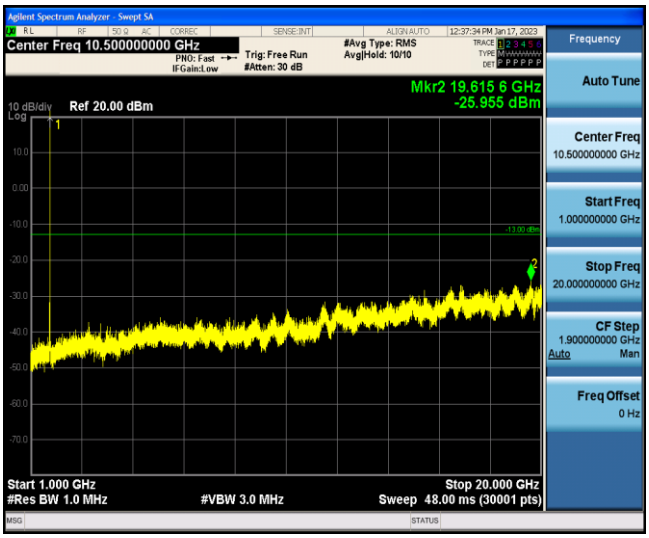

Band4-10MHz-QPSK-20350-1RB#0-Range2:1000~20000MHz



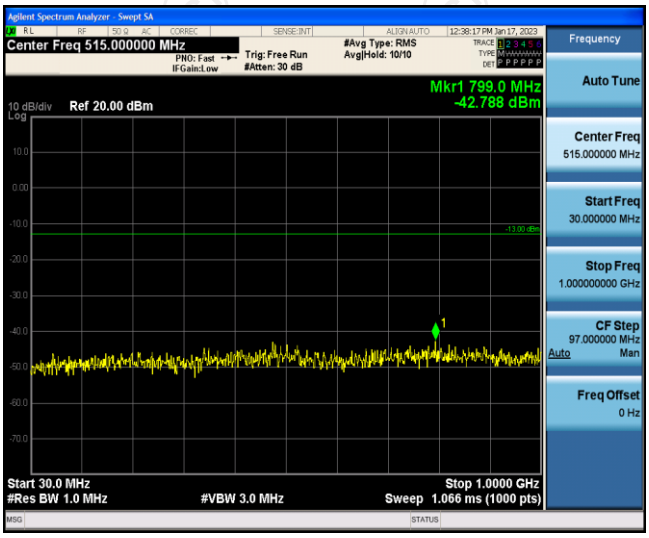

Band4-10MHz-16QAM-20000-1RB#0-Range1:30~1000MHz



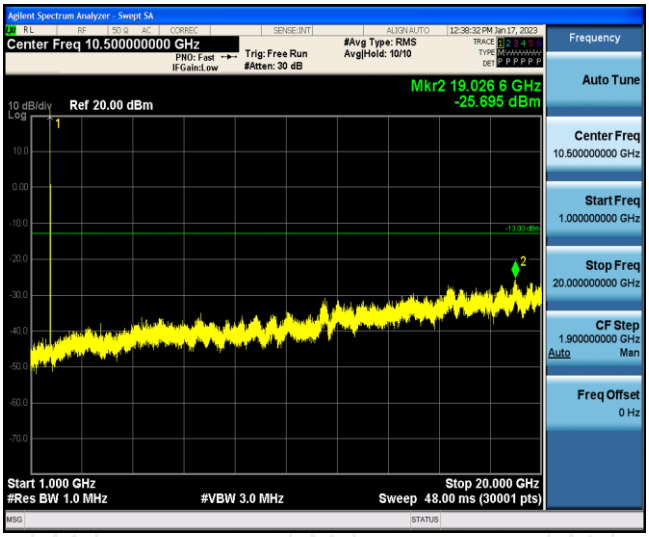

Band4-10MHz-16QAM-20000-1RB#0-Range2:1000~20000MHz



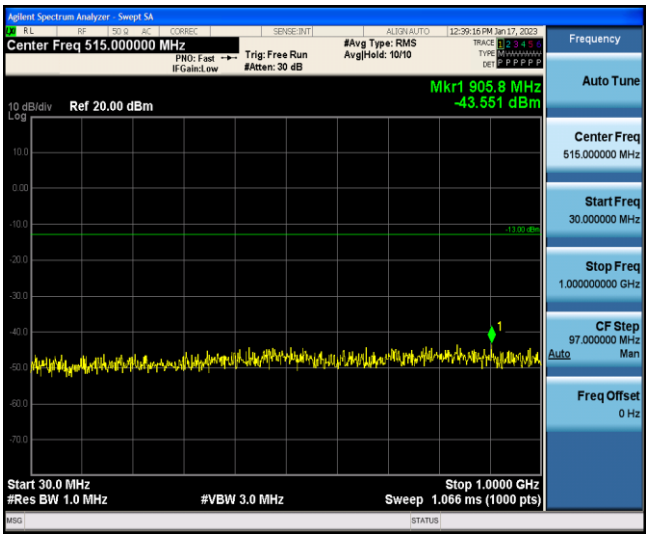

Band4-10MHz-16QAM-20175-1RB#0-Range1:30~1000MHz



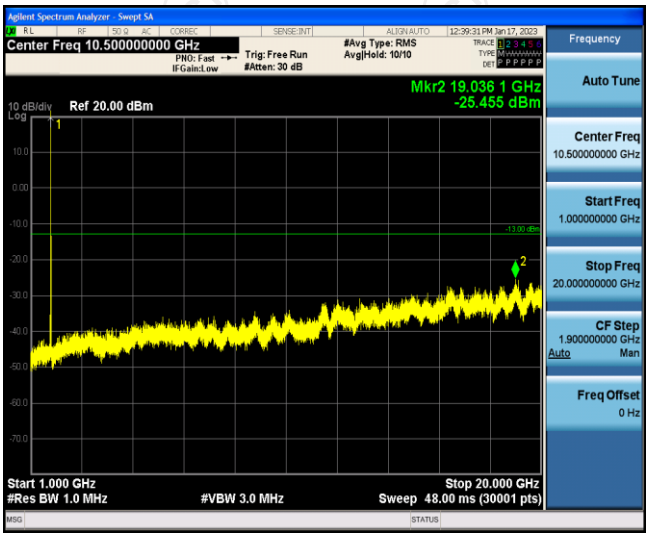

Band4-10MHz-16QAM-20175-1RB#0-Range2:1000~20000MHz



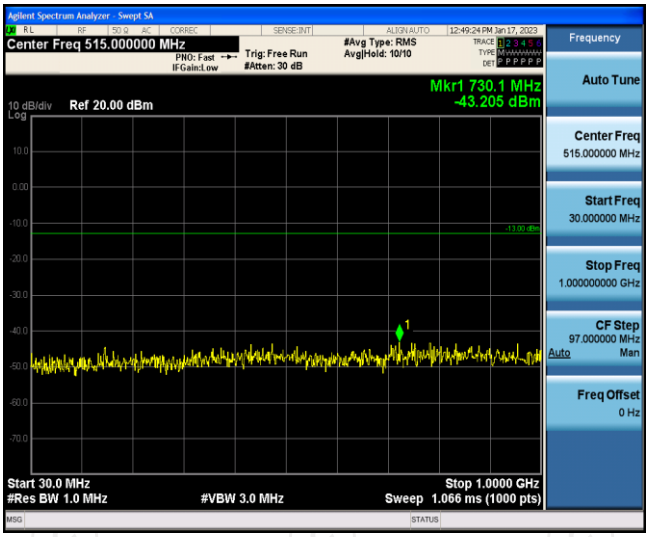

Band4-10MHz-16QAM-20350-1RB#0-Range1:30~1000MHz



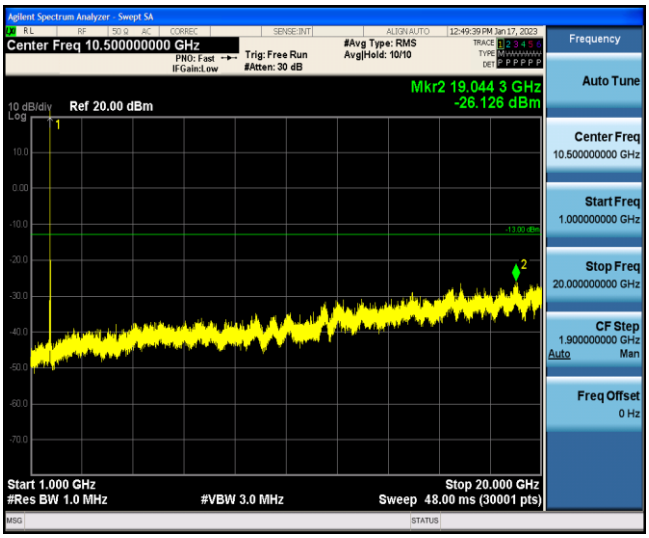

Band4-10MHz-16QAM-20350-1RB#0-Range2:1000~20000MHz



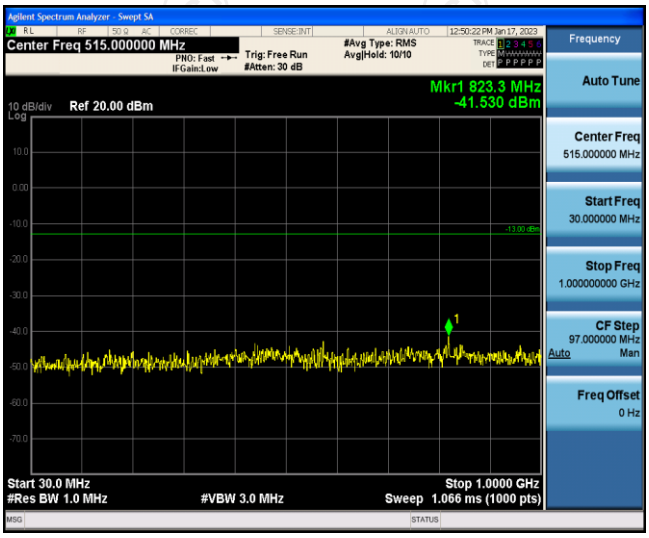

Band4-15MHz-QPSK-20025-1RB#0-Range1:30~1000MHz



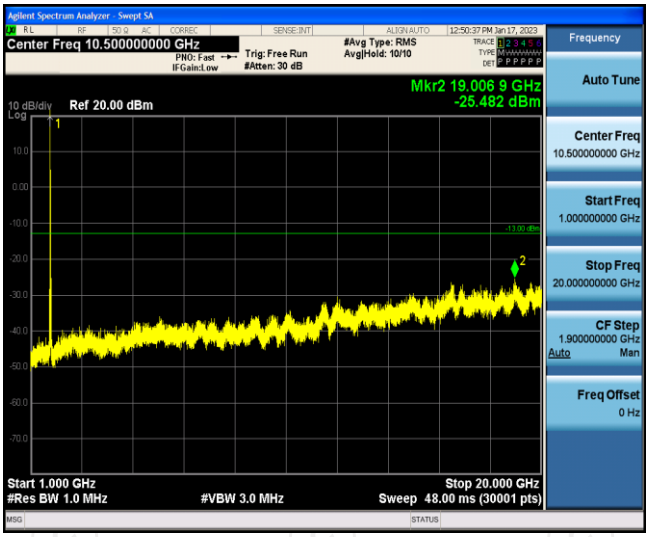

Band4-15MHz-QPSK-20025-1RB#0-Range2:1000~20000MHz



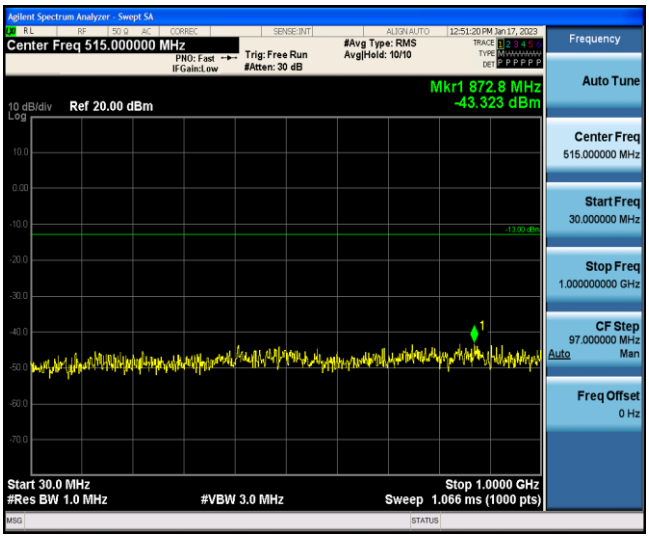

Band4-15MHz-QPSK-20175-1RB#0-Range1:30~1000MHz



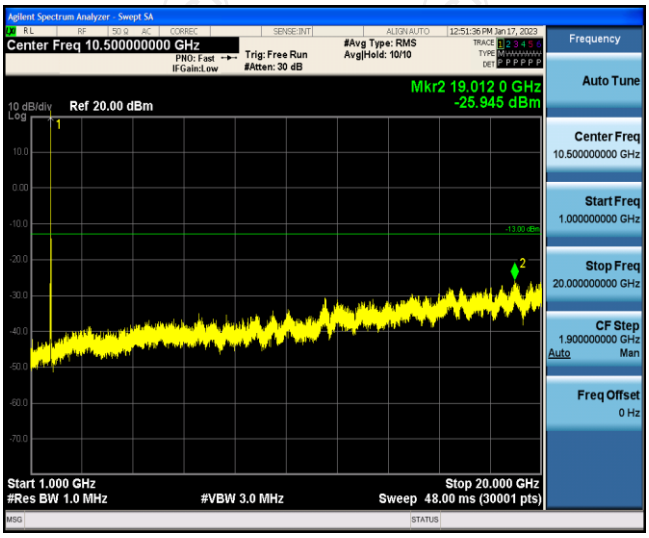

Band4-15MHz-QPSK-20175-1RB#0-Range2:1000~20000MHz



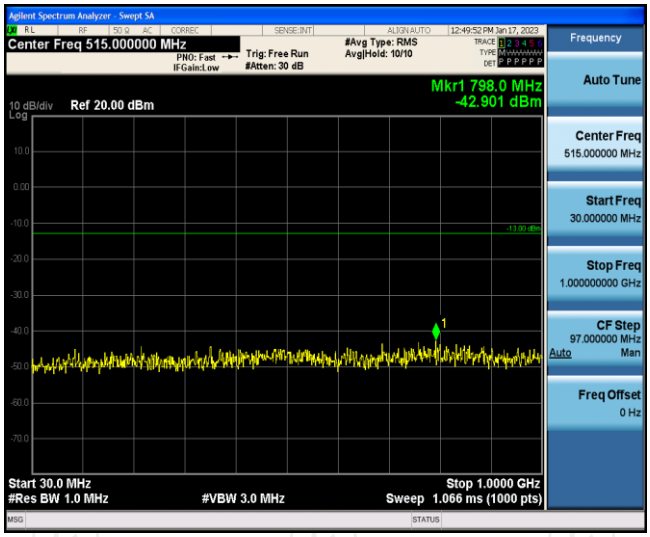

Band4-15MHz-QPSK-20325-1RB#0-Range1:30~1000MHz



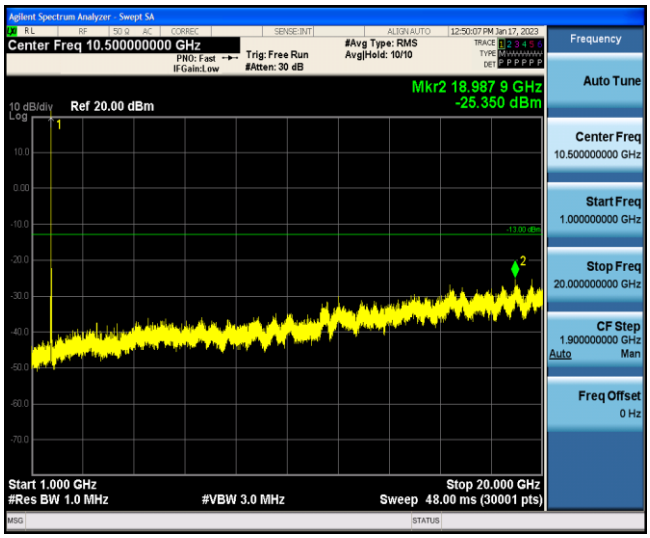

Band4-15MHz-QPSK-20325-1RB#0-Range2:1000~20000MHz



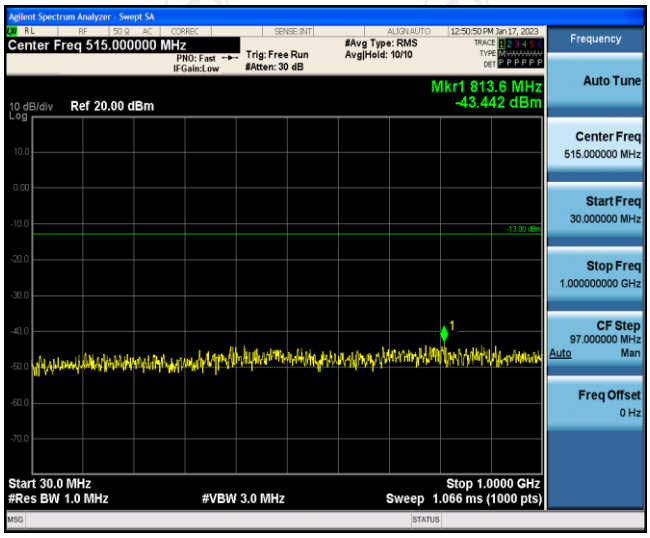

Band4-15MHz-16QAM-20025-1RB#0-Range1:30~1000MHz



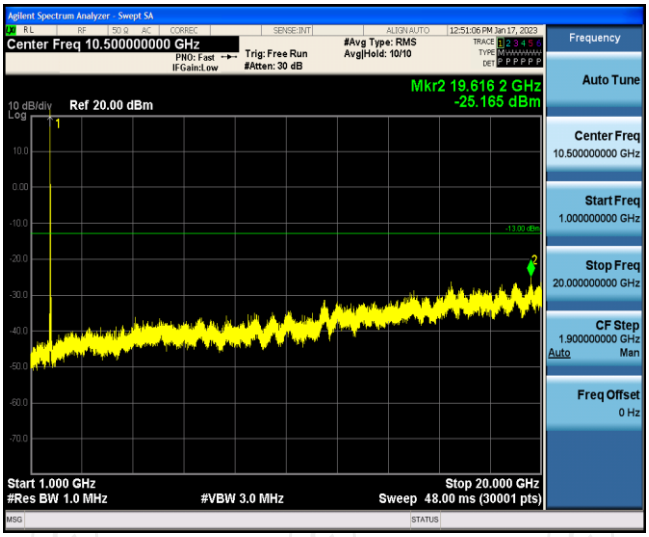

Band4-15MHz-16QAM-20025-1RB#0-Range2:1000~20000MHz



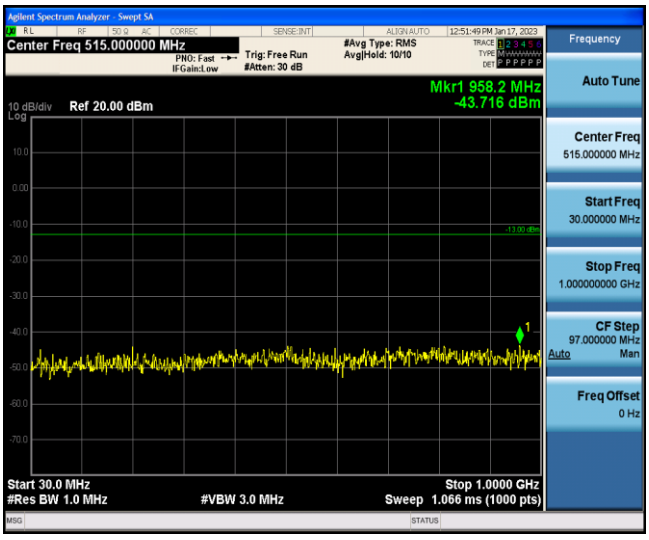

Band4-15MHz-16QAM-20175-1RB#0-Range1:30~1000MHz



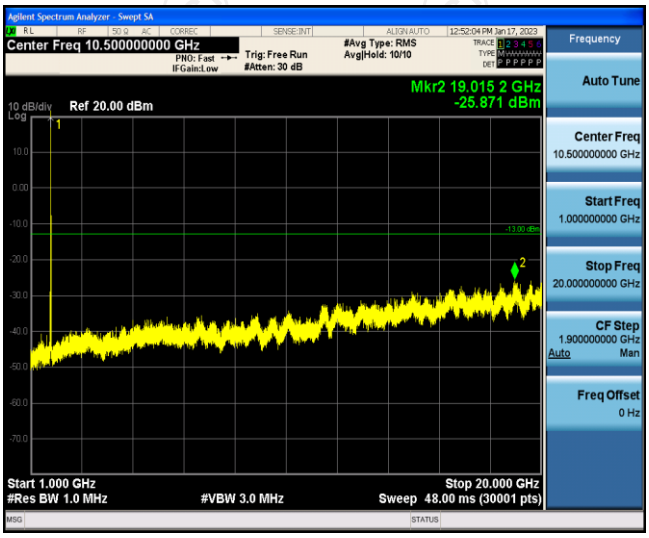

Band4-15MHz-16QAM-20175-1RB#0-Range2:1000~20000MHz



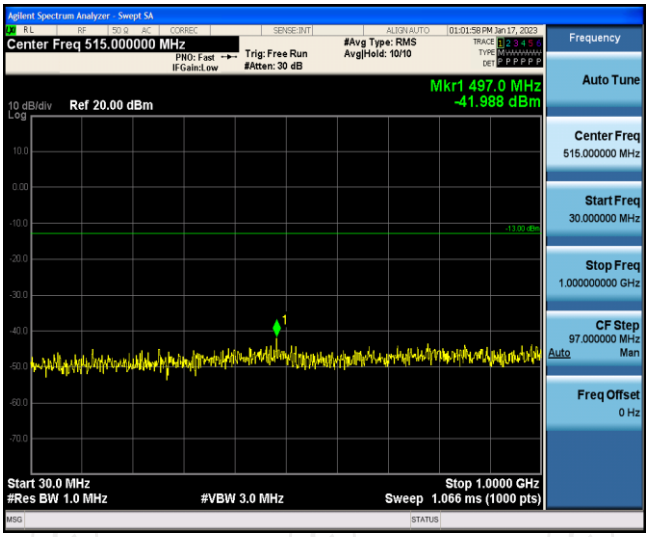

Band4-15MHz-16QAM-20325-1RB#0-Range1:30~1000MHz



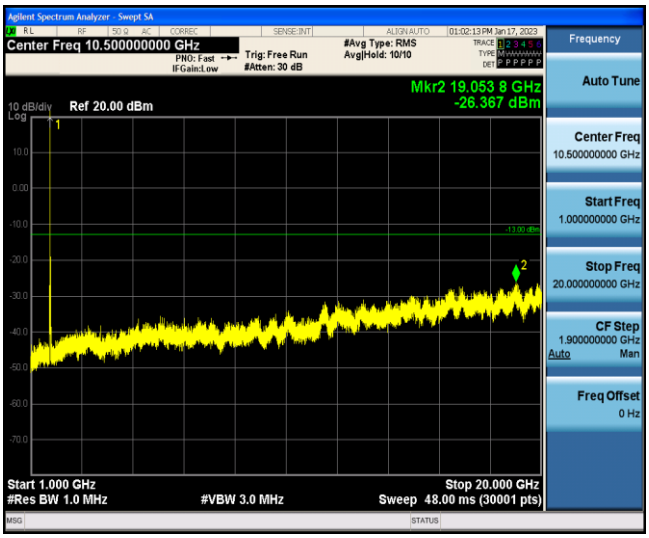

Band4-15MHz-16QAM-20325-1RB#0-Range2:1000~20000MHz



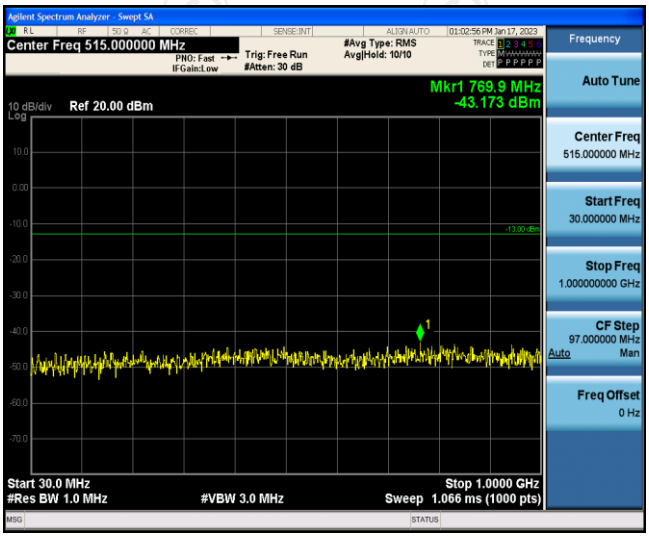

Band4-20MHz-QPSK-20050-1RB#0-Range1:30~1000MHz



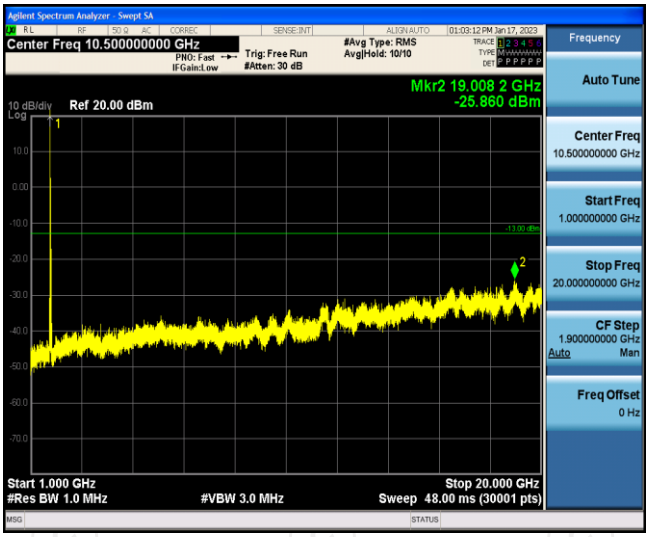

Band4-20MHz-QPSK-20050-1RB#0-Range2:1000~20000MHz



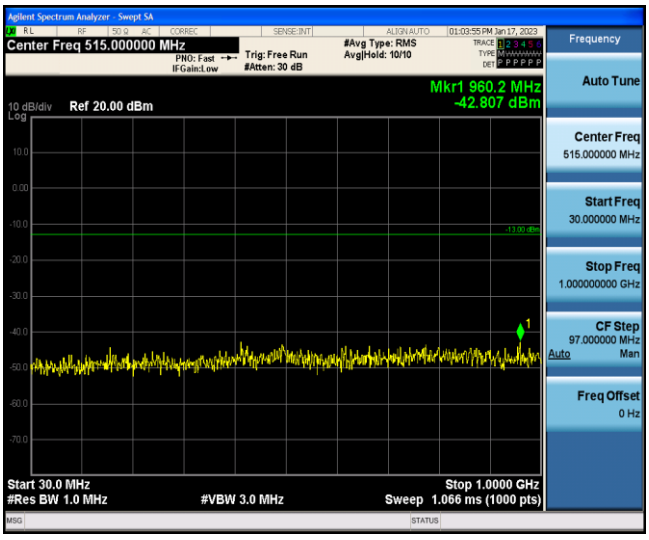

Band4-20MHz-QPSK-20175-1RB#0-Range1:30~1000MHz



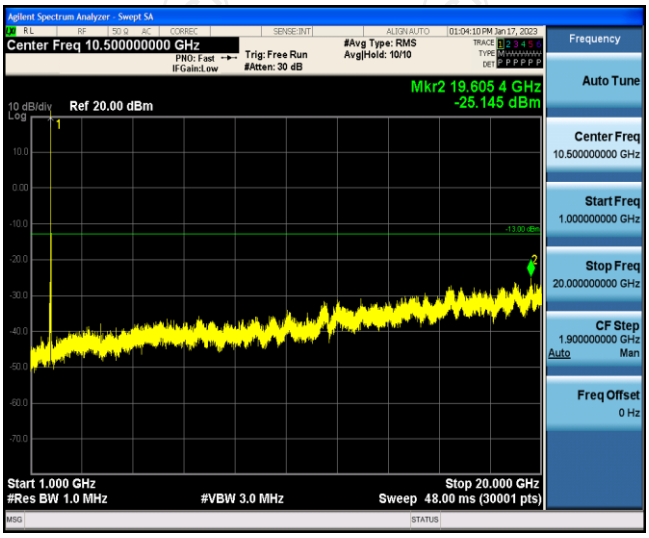

Band4-20MHz-QPSK-20175-1RB#0-Range2:1000~20000MHz



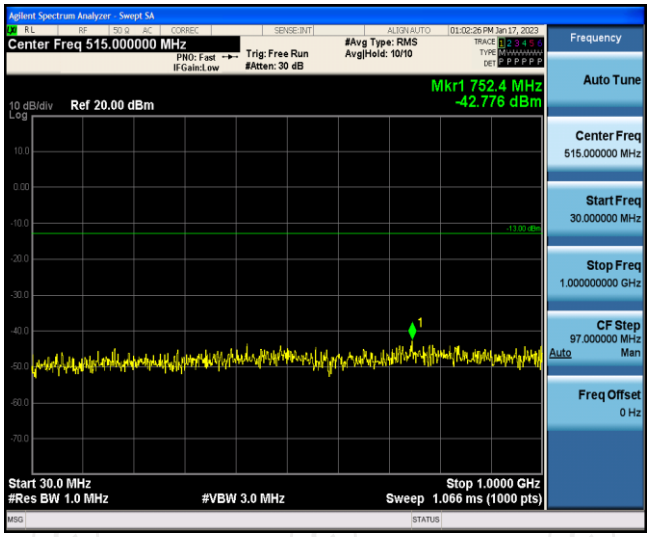

Band4-20MHz-QPSK-20300-1RB#0-Range1:30~1000MHz



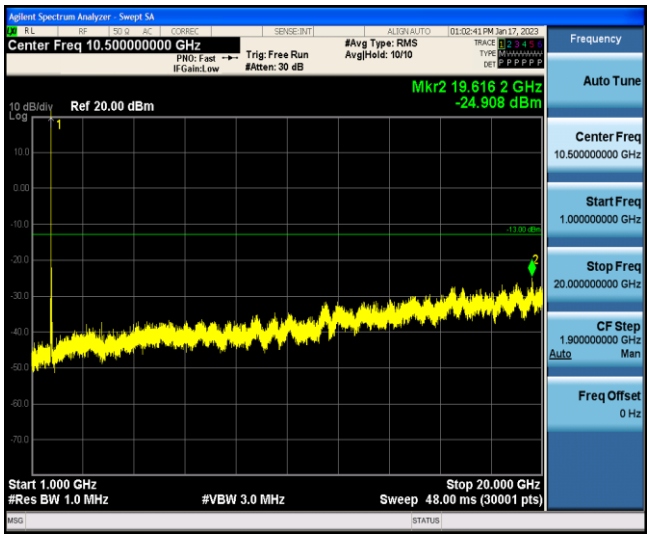

Band4-20MHz-QPSK-20300-1RB#0-Range2:1000~20000MHz



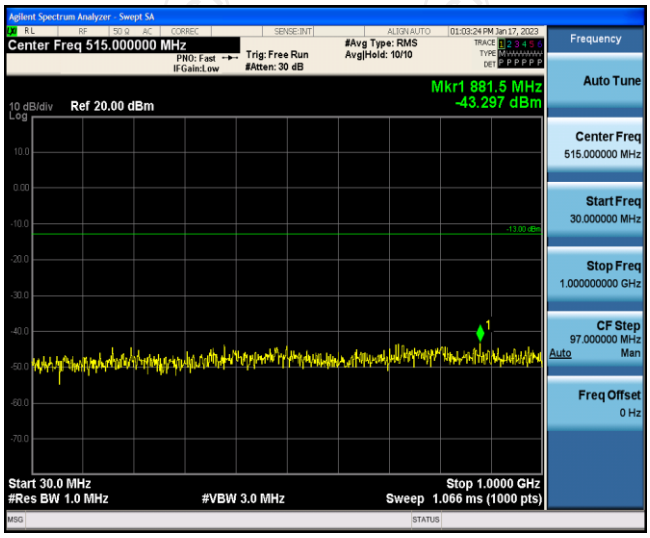

Band4-20MHz-16QAM-20050-1RB#0-Range1:30~1000MHz



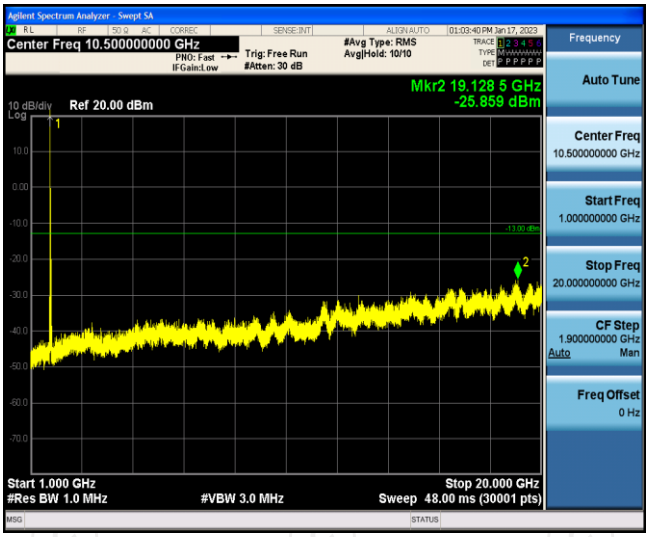

Band4-20MHz-16QAM-20050-1RB#0-Range2:1000~20000MHz



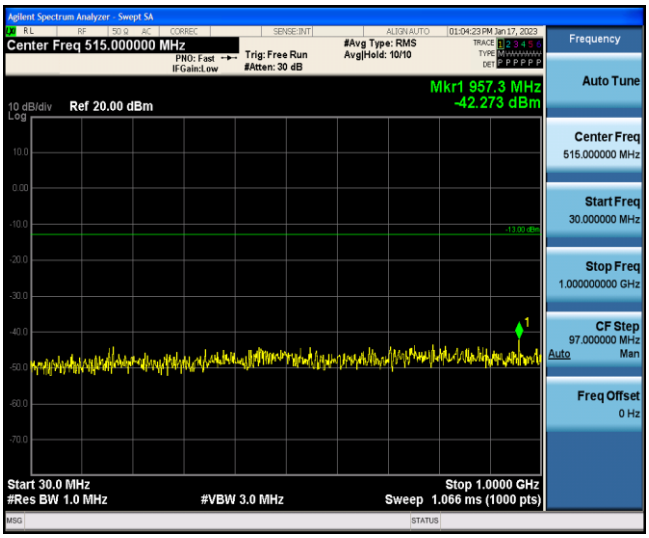

Band4-20MHz-16QAM-20175-1RB#0-Range1:30~1000MHz



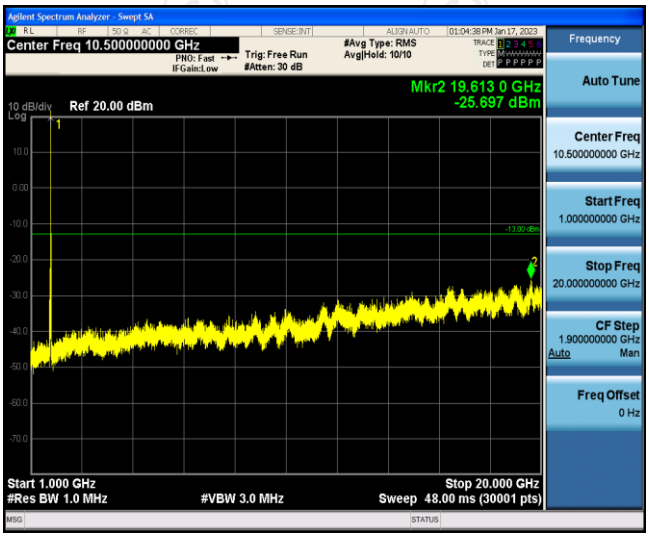

Band4-20MHz-16QAM-20175-1RB#0-Range2:1000~20000MHz




Band4-20MHz-16QAM-20300-1RB#0-Range1:30~1000MHz




Band4-20MHz-16QAM-20300-1RB#0-Range2:1000~20000MHz



# Appendix F: Frequency Stability

## Test Result

| Voltage | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Band | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band4 | 1.4MHz | QPSK | 19957 | 6RB#0 | VL | NT | -17.57 | -0.010271 | ±2.5 | PASS |
| Band4 | 1.4MHz | QPSK | 19957 | 6RB#0 | VN | NT | -9.06 | -0.005296 | ±2.5 | PASS |
| Band4 | 1.4MHz | QPSK | 19957 | 6RB#0 | VH | NT | -9.27 | -0.005419 | ±2.5 | PASS |
| Band4 | 1.4MHz | QPSK | 20175 | 6RB#0 | VL | NT | -21.18 | -0.012225 | ±2.5 | PASS |
| Band4 | 1.4MHz | QPSK | 20175 | 6RB#0 | VN | NT | -21.53 | -0.012427 | ±2.5 | PASS |
| Band4 | 1.4MHz | QPSK | 20175 | 6RB#0 | VH | NT | -42.23 | -0.024375 | ±2.5 | PASS |
| Band4 | 1.4MHz | QPSK | 20393 | 6RB#0 | VL | NT | -4.49 | -0.002559 | ±2.5 | PASS |
| Band4 | 1.4MHz | QPSK | 20393 | 6RB#0 | VN | NT | 6.17 | 0.003517 | ±2.5 | PASS |
| Band4 | 1.4MHz | QPSK | 20393 | 6RB#0 | VH | NT | -22.96 | -0.013088 | ±2.5 | PASS |
| Band4 | 1.4MHz | 16QAM | 19957 | 6RB#0 | VL | NT | 11.03 | 0.006448 | ±2.5 | PASS |
| Band4 | 1.4MHz | 16QAM | 19957 | 6RB#0 | VN | NT | 8.90 | 0.005203 | ±2.5 | PASS |
| Band4 | 1.4MHz | 16QAM | 19957 | 6RB#0 | VH | NT | -5.38 | -0.003145 | ±2.5 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 6RB#0 | VL | NT | -11.56 | -0.006672 | ±2.5 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 6RB#0 | VN | NT | -6.86 | -0.003960 | ±2.5 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 6RB#0 | VH | NT | -28.88 | -0.016670 | ±2.5 | PASS |
| Band4 | 1.4MHz | 16QAM | 20393 | 6RB#0 | VL | NT | -6.46 | -0.003682 | ±2.5 | PASS |
| Band4 | 1.4MHz | 16QAM | 20393 | 6RB#0 | VN | NT | -9.25 | -0.005273 | ±2.5 | PASS |
| Band4 | 1.4MHz | 16QAM | 20393 | 6RB#0 | VH | NT | -7.07 | -0.004030 | ±2.5 | PASS |

| Temperature | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Band | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band4 | 1.4MHz | QPSK | 19957 | 6RB#0 | NV | -30 | -3.38 | -0.001976 | ±2.5 | PASS |
| Band4 | 1.4MHz | QPSK | 19957 | 6RB#0 | NV | -20 | 5.77 | 0.003373 | ±2.5 | PASS |
| Band4 | 1.4MHz | QPSK | 19957 | 6RB#0 | NV | 0 | -19.68 | -0.011504 | ±2.5 | PASS |
| Band4 | 1.4MHz | QPSK | 19957 | 6RB#0 | NV | 10 | 5.87 | 0.003431 | ±2.5 | PASS |
| Band4 | 1.4MHz | QPSK | 19957 | 6RB#0 | NV | 20 | 6.05 | 0.003537 | ±2.5 | PASS |
| Band4 | 1.4MHz | QPSK | 20175 | 6RB#0 | NV | -30 | 14.94 | 0.008623 | ±2.5 | PASS |
| Band4 | 1.4MHz | QPSK | 20175 | 6RB#0 | NV | -20 | 13.98 | 0.008069 | ±2.5 | PASS |
| Band4 | 1.4MHz | QPSK | 20175 | 6RB#0 | NV | 0 | 7.15 | 0.004127 | ±2.5 | PASS |
| Band4 | 1.4MHz | QPSK | 20175 | 6RB#0 | NV | 10 | 5.59 | 0.003227 | ±2.5 | PASS |
| Band4 | 1.4MHz | QPSK | 20175 | 6RB#0 | NV | 20 | -6.28 | -0.003625 | ±2.5 | PASS |
| Band4 | 1.4MHz | QPSK | 20393 | 6RB#0 | NV | -30 | -8.22 | -0.004686 | ±2.5 | PASS |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Band4 | 1.4MHz | QPSK | 20393 | 6RB#0 | NV | -20 | -7.69 | -0.004384 | ±2.5 | PASS |
| Band4 | 1.4MHz | QPSK | 20393 | 6RB#0 | NV | 0 | -6.69 | -0.003813 | ±2.5 | PASS |
| Band4 | 1.4MHz | QPSK | 20393 | 6RB#0 | NV | 10 | -6.99 | -0.003984 | ±2.5 | PASS |
| Band4 | 1.4MHz | QPSK | 20393 | 6RB#0 | NV | 20 | -9.79 | -0.005581 | ±2.5 | PASS |
| Band4 | 1.4MHz | 16QAM | 19957 | 6RB#0 | NV | -30 | -7.21 | -0.004215 | ±2.5 | PASS |
| Band4 | 1.4MHz | 16QAM | 19957 | 6RB#0 | NV | -20 | -7.92 | -0.004630 | ±2.5 | PASS |
| Band4 | 1.4MHz | 16QAM | 19957 | 6RB#0 | NV | 0 | -9.65 | -0.005641 | ±2.5 | PASS |
| Band4 | 1.4MHz | 16QAM | 19957 | 6RB#0 | NV | 10 | -14.55 | -0.008505 | ±2.5 | PASS |
| Band4 | 1.4MHz | 16QAM | 19957 | 6RB#0 | NV | 20 | -34.05 | -0.019904 | ±2.5 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 6RB#0 | NV | -30 | -20.32 | -0.011729 | ±2.5 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 6RB#0 | NV | -20 | -22.98 | -0.013264 | ±2.5 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 6RB#0 | NV | 0 | -25.83 | -0.014909 | ±2.5 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 6RB#0 | NV | 10 | -29.37 | -0.016952 | ±2.5 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 6RB#0 | NV | 20 | -30.34 | -0.017512 | ±2.5 | PASS |
| Band4 | 1.4MHz | 16QAM | 20393 | 6RB#0 | NV | -30 | -6.51 | -0.003711 | ±2.5 | PASS |
| Band4 | 1.4MHz | 16QAM | 20393 | 6RB#0 | NV | -20 | -4.80 | -0.002736 | ±2.5 | PASS |
| Band4 | 1.4MHz | 16QAM | 20393 | 6RB#0 | NV | 0 | 4.22 | 0.002406 | ±2.5 | PASS |
| Band4 | 1.4MHz | 16QAM | 20393 | 6RB#0 | NV | 10 | 3.60 | 0.002052 | ±2.5 | PASS |
| Band4 | 1.4MHz | 16QAM | 20393 | 6RB#0 | NV | 20 | -6.09 | -0.003471 | ±2.5 | PASS |