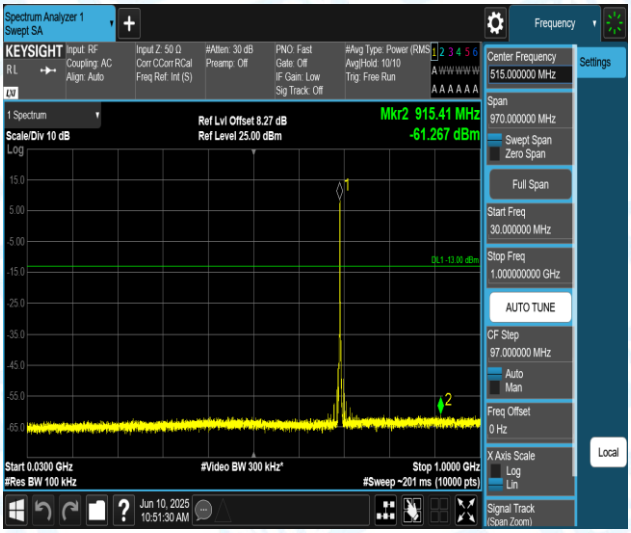
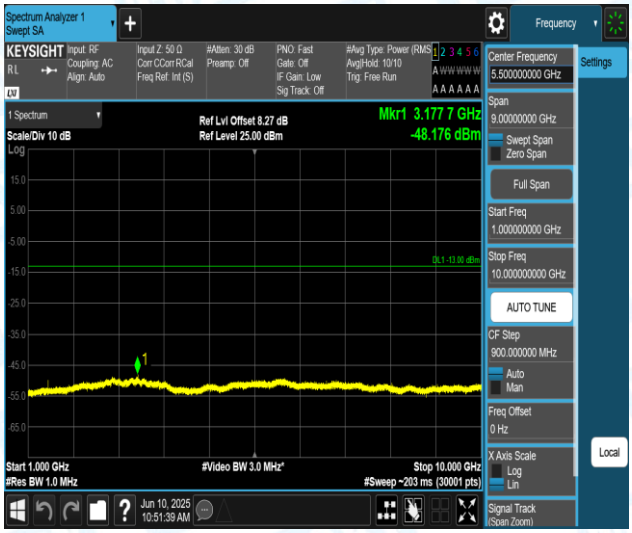
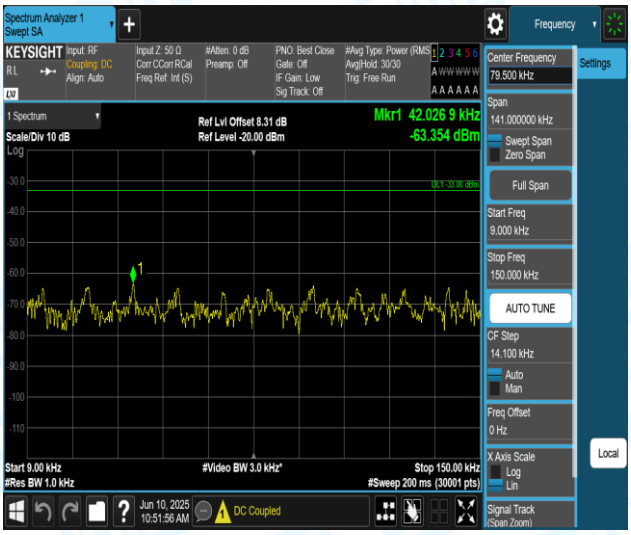


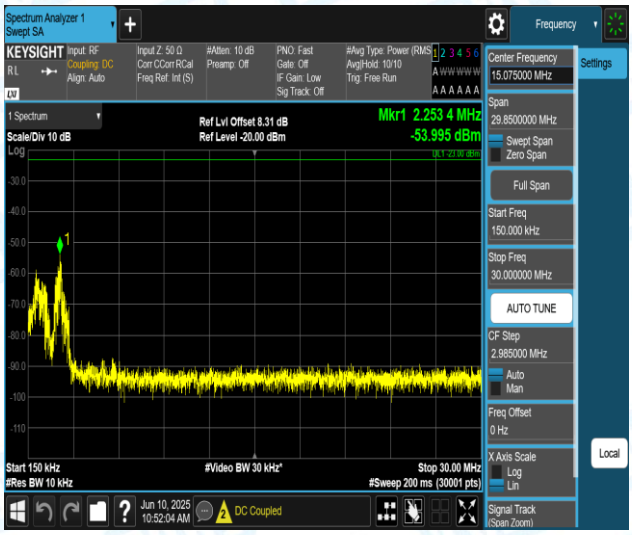

Band 12-5MHz-16QAM-23035-PASS



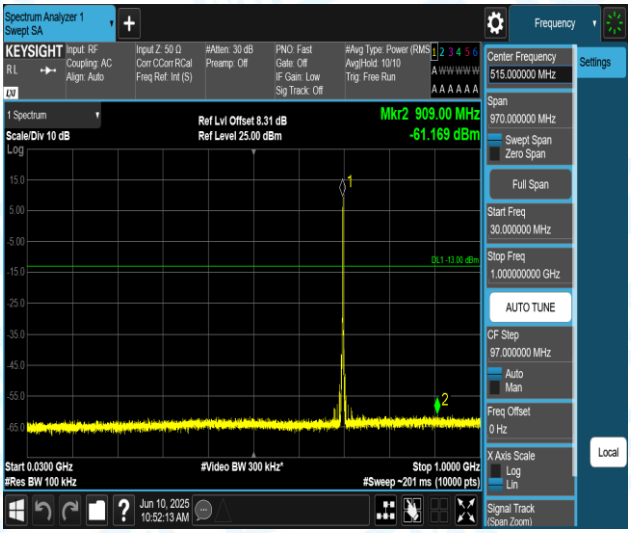

Band 12-5MHz-16QAM-23035-PASS



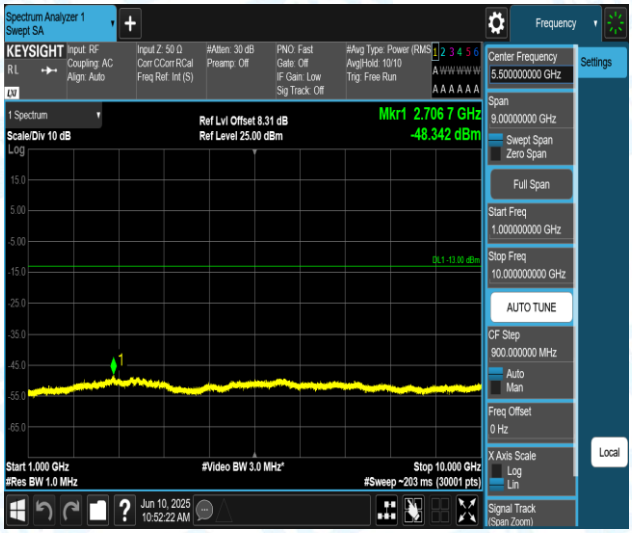

Band 12-5MHz-QPSK-23095-PASS



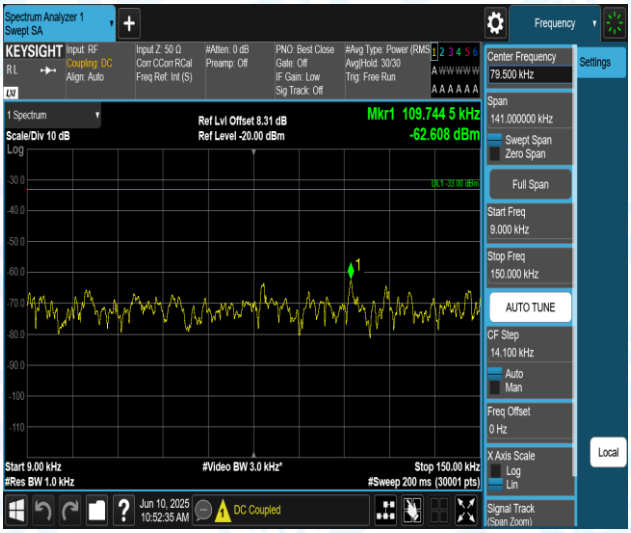

Band 12-5MHz-QPSK-23095-PASS



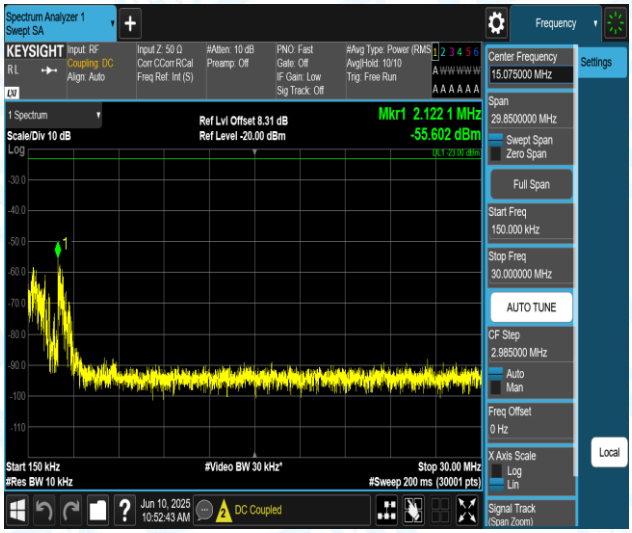

Band 12-5MHz-QPSK-23095-PASS



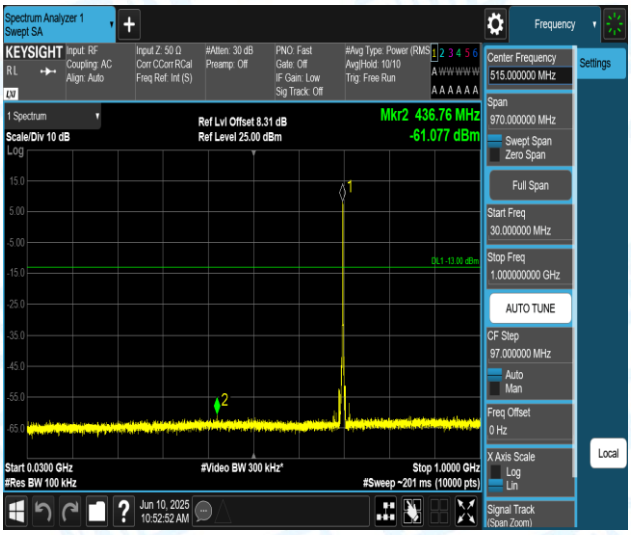

Band 12-5MHz-QPSK-23095-PASS



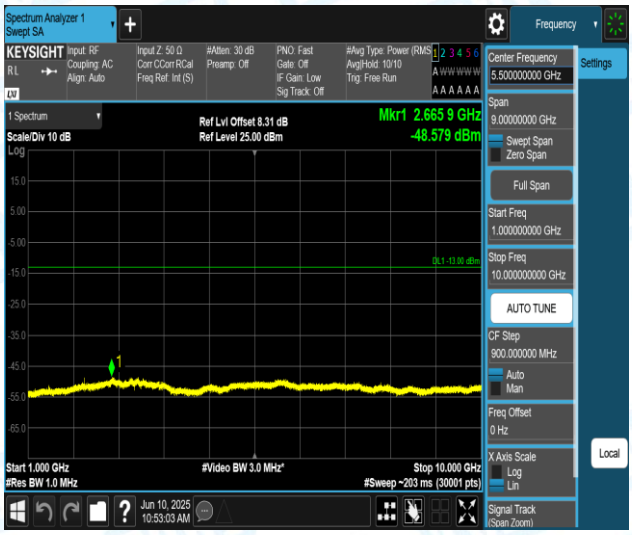

Band 12-5MHz-16QAM-23095-PASS




Band 12-5MHz-16QAM-23095-PASS

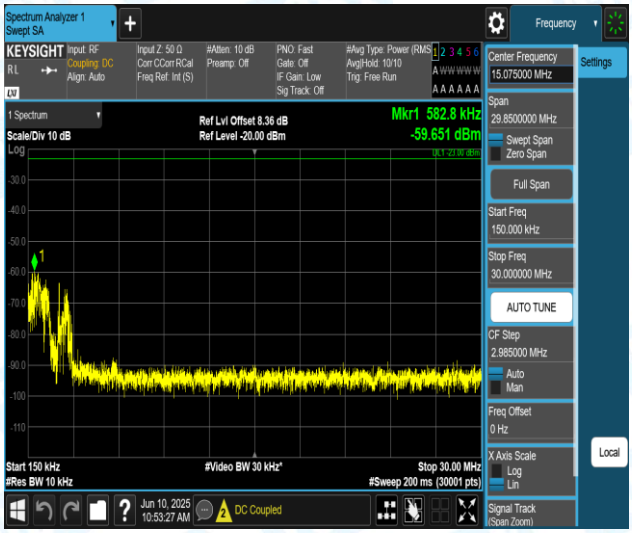



Band 12-5MHz-16QAM-23095-PASS




Band 12-5MHz-16QAM-23095-PASS

Band 12-5MHz-QPSK-23155-PASS

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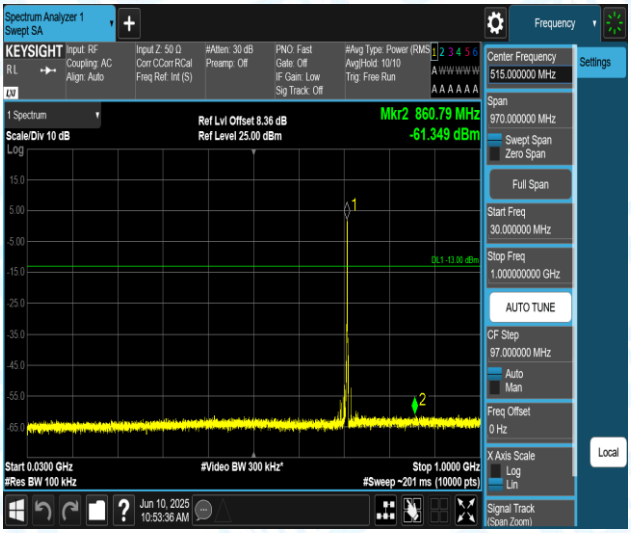


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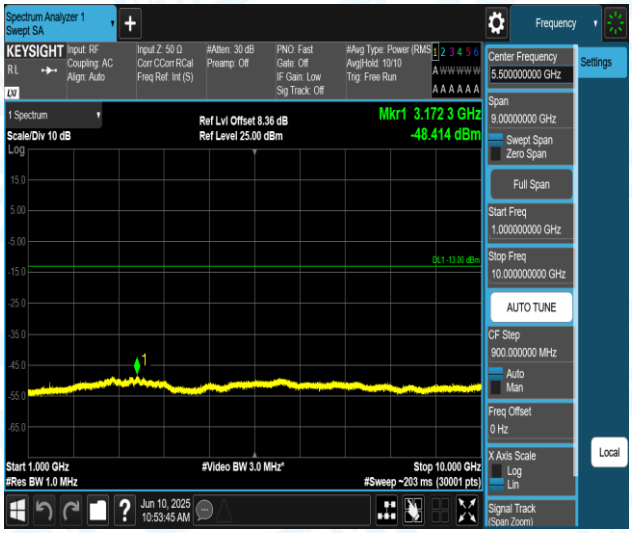
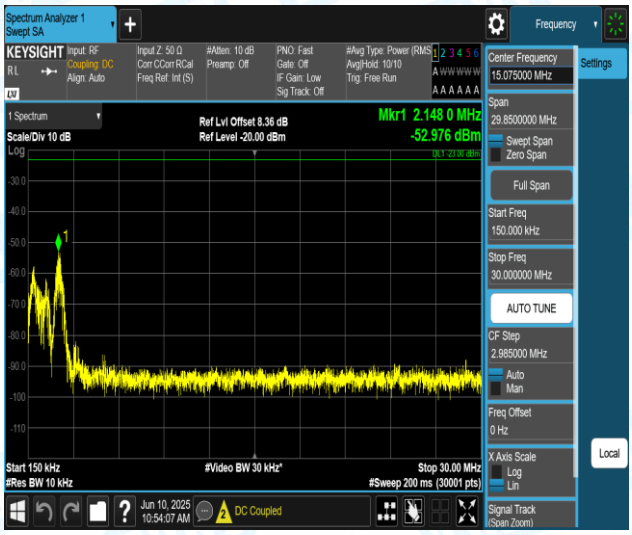
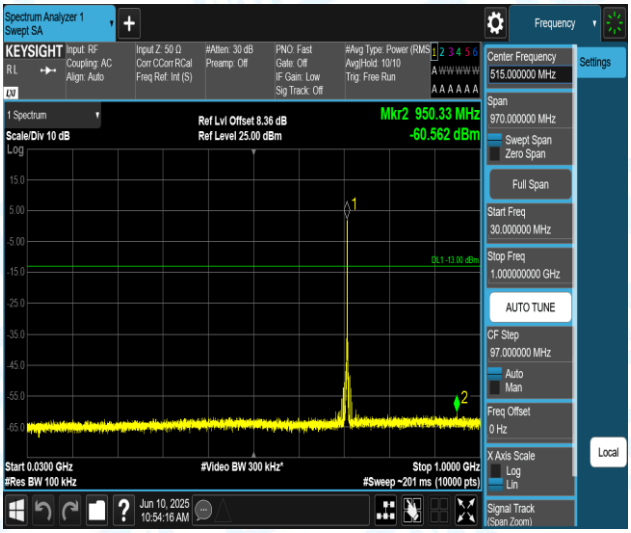



Band 12-5MHz-QPSK-23155-PASS

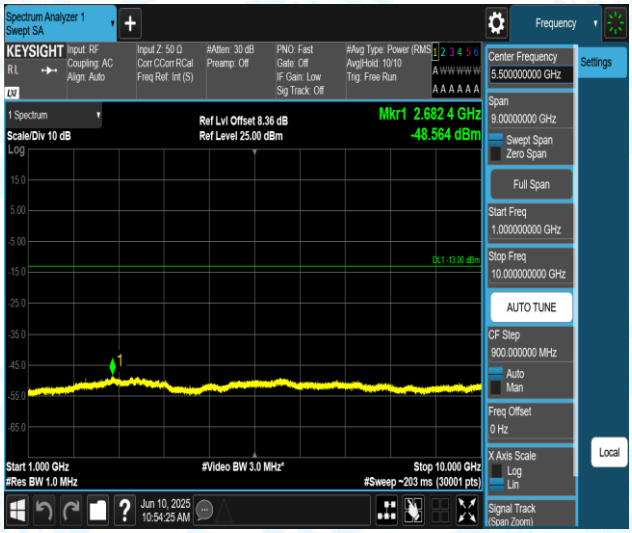
Band 12-5MHz-16QAM-23155-PASS



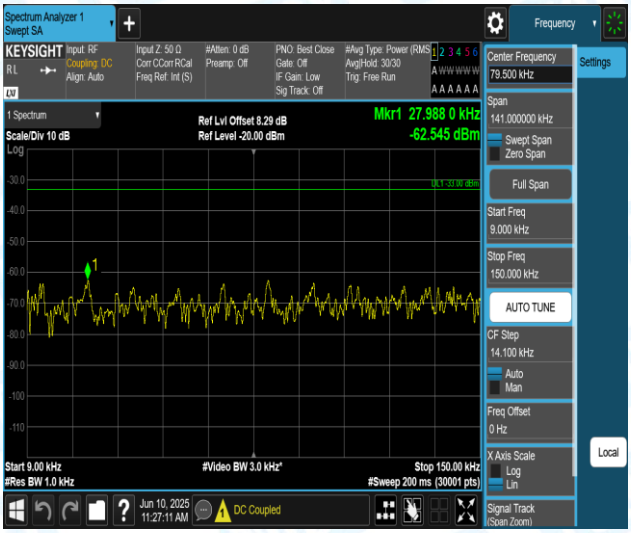

Band 12-5MHz-16QAM-23155-PASS



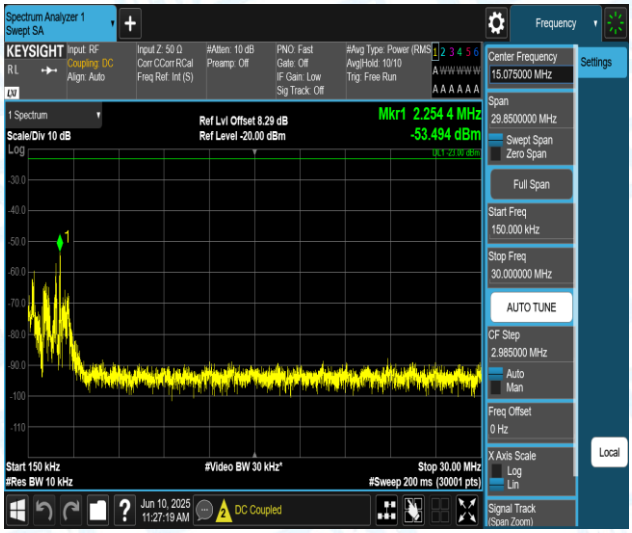

Band 12-5MHz-16QAM-23155-PASS



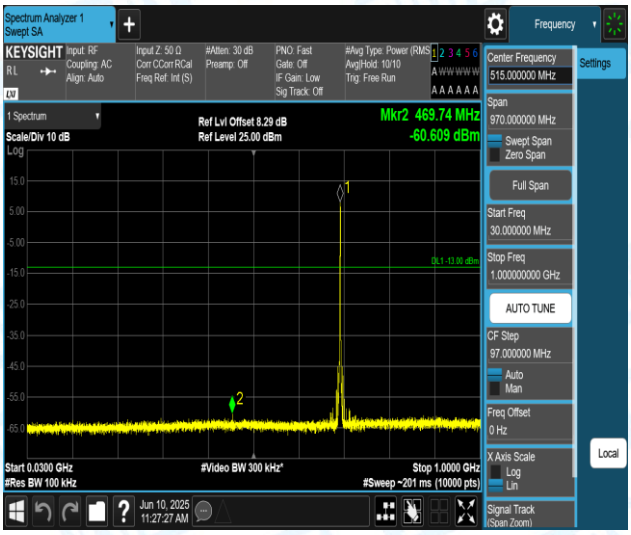

Band 12-5MHz-16QAM-23155-PASS




Band12-10MHz-QPSK-23060-PASS




Band12-10MHz-QPSK-23060-PASS

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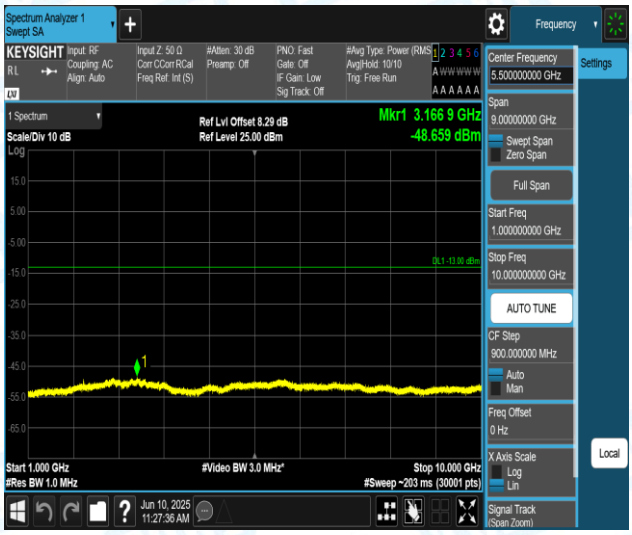
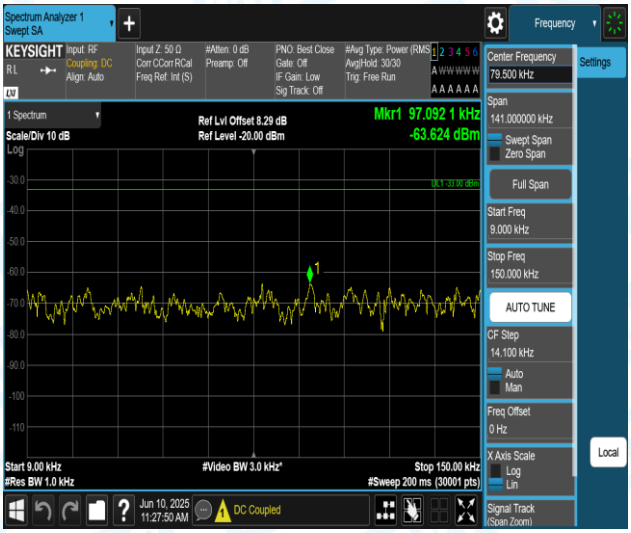
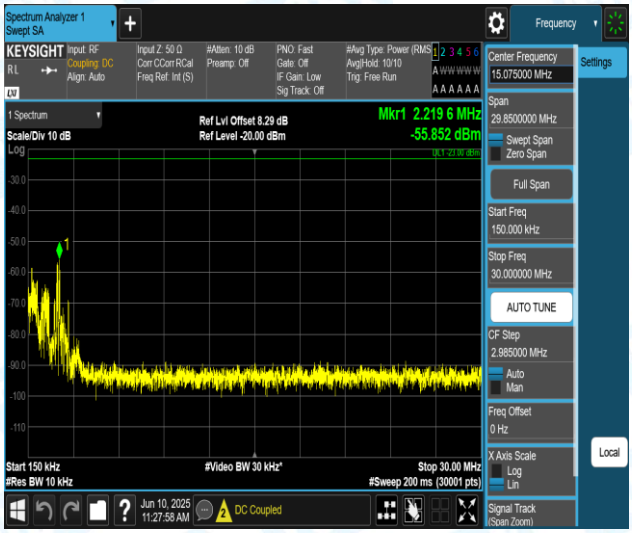



Band12-10MHz-QPSK-23060-PASS




Band12-10MHz-16QAM-23060-PASS

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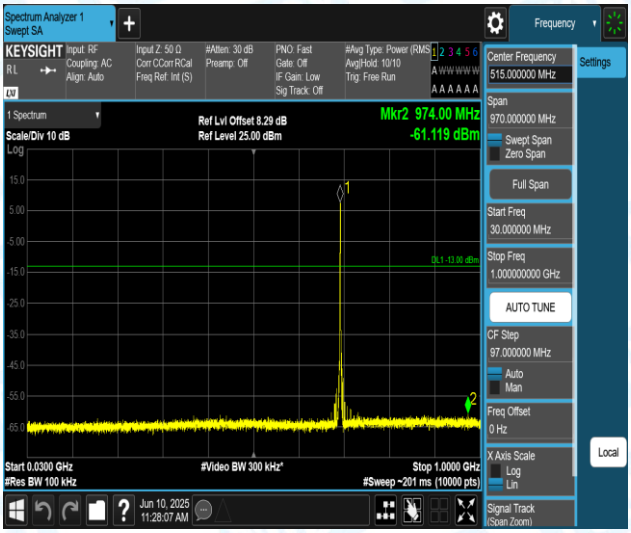
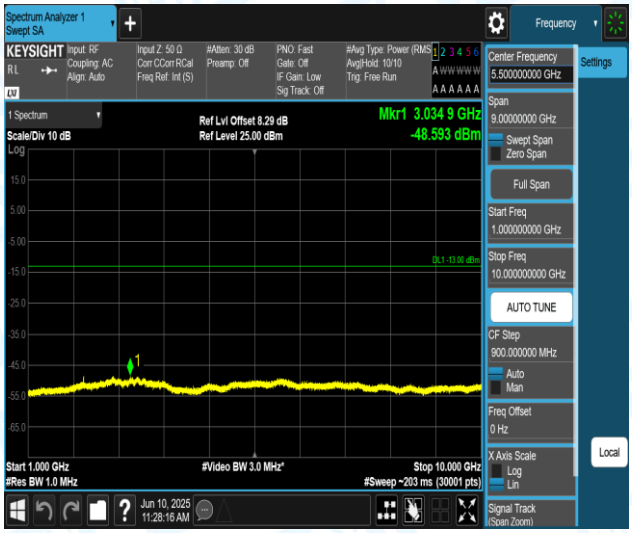
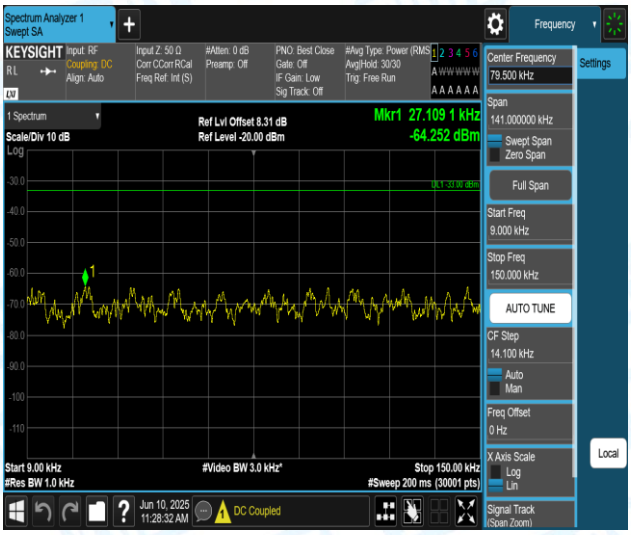


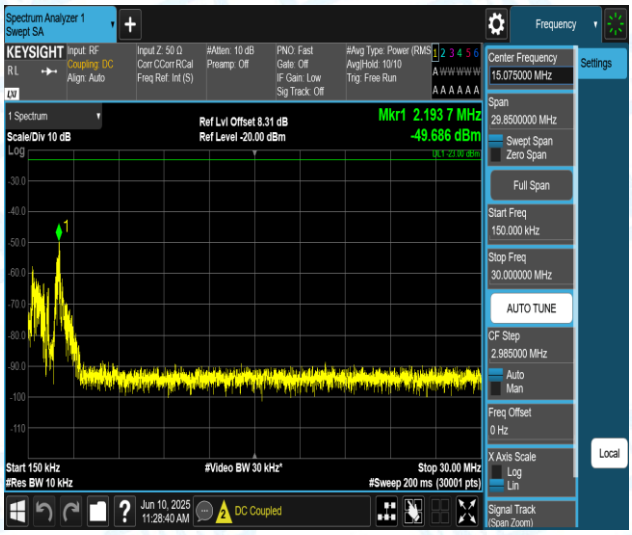

Band12-10MHz-16QAM-23060-PASS



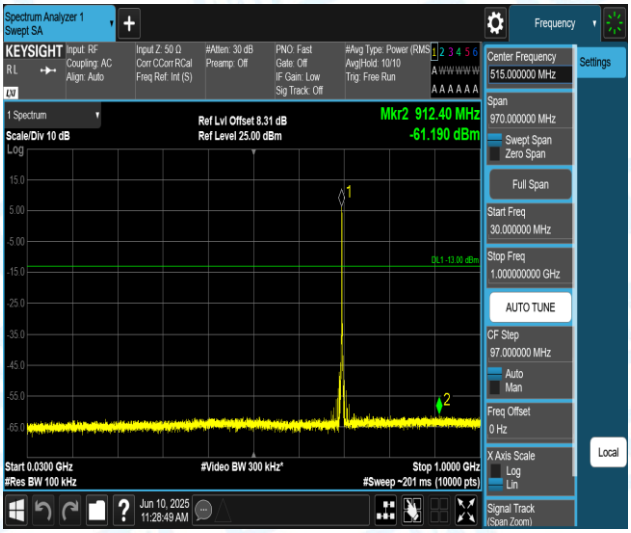

Band12-10MHz-16QAM-23060-PASS



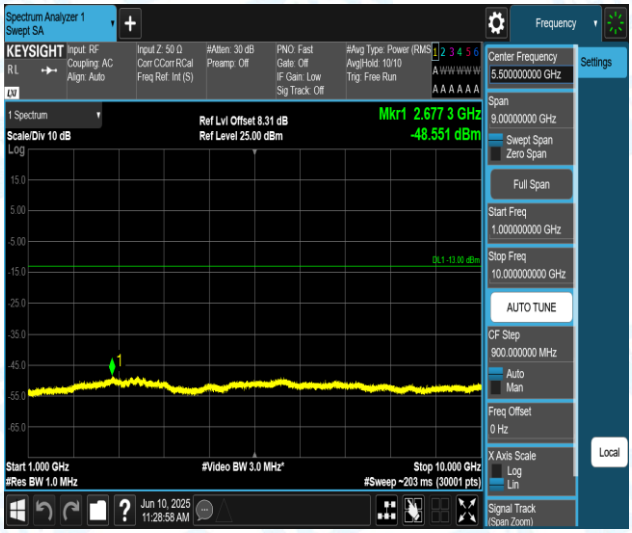

Band12-10MHz-QPSK-23095-PASS




Band12-10MHz-QPSK-23095-PASS

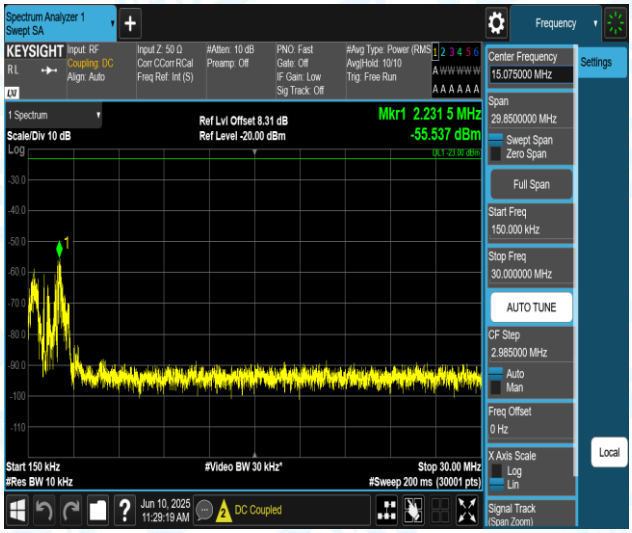



Band12-10MHz-QPSK-23095-PASS

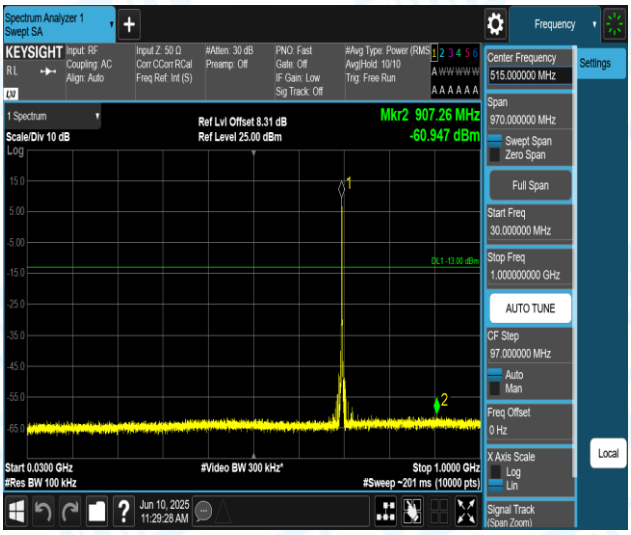



Band12-10MHz-QPSK-23095-PASS

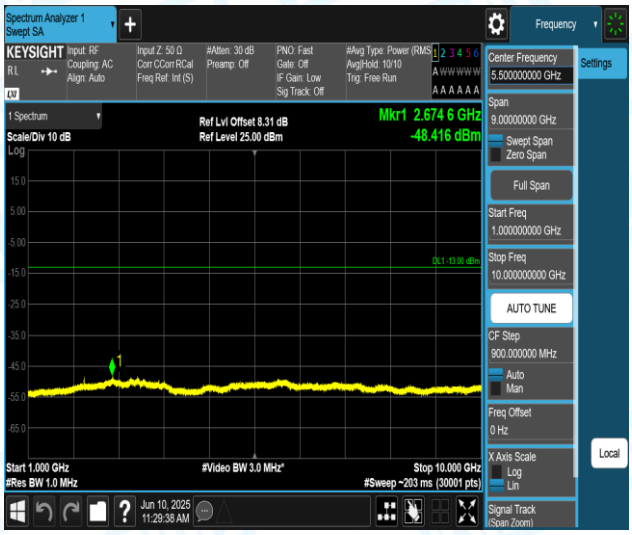
Band12-10MHz-16QAM-23095-PASS



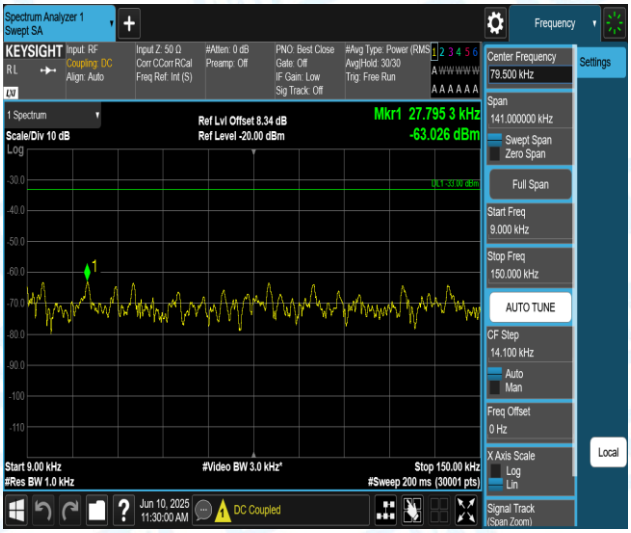

Band12-10MHz-16QAM-23095-PASS



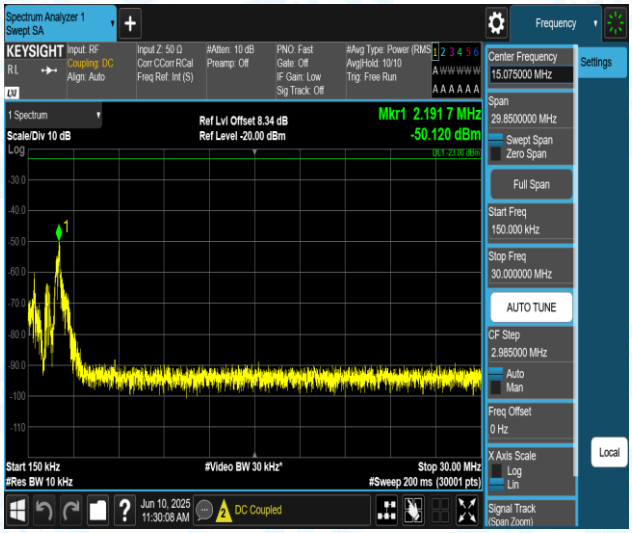

Band12-10MHz-16QAM-23095-PASS




Band12-10MHz-16QAM-23095-PASS




Band12-10MHz-QPSK-23130-PASS

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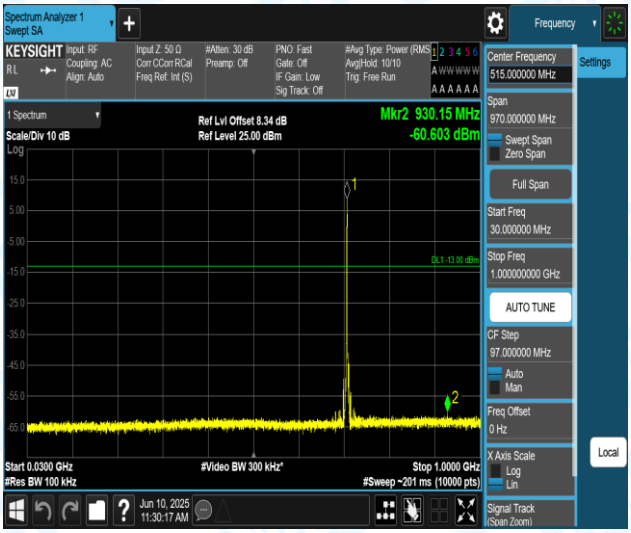


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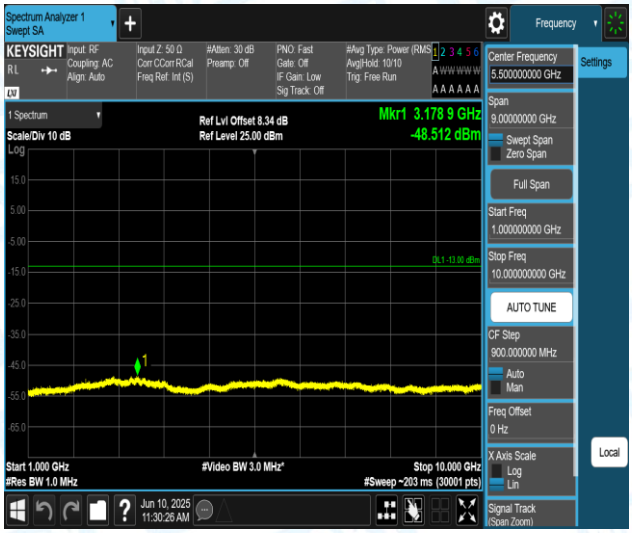
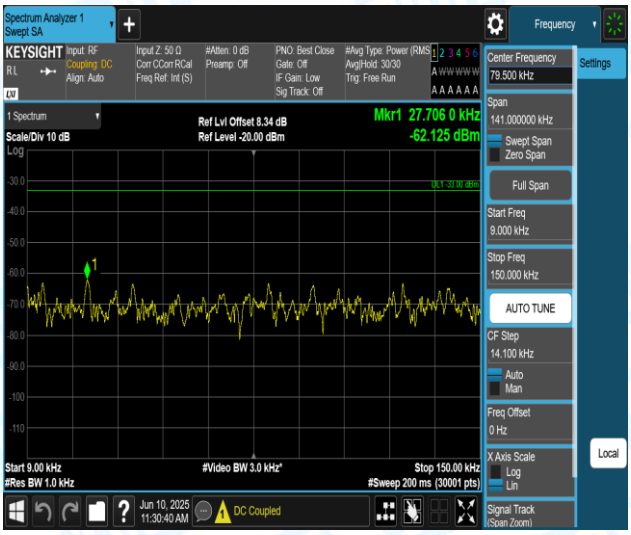
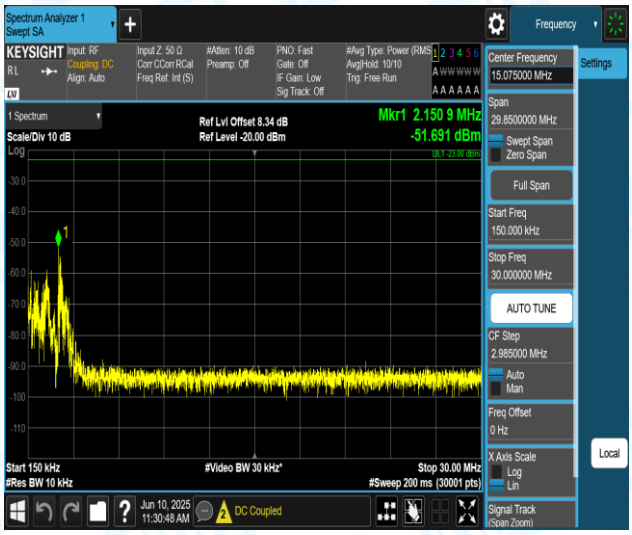


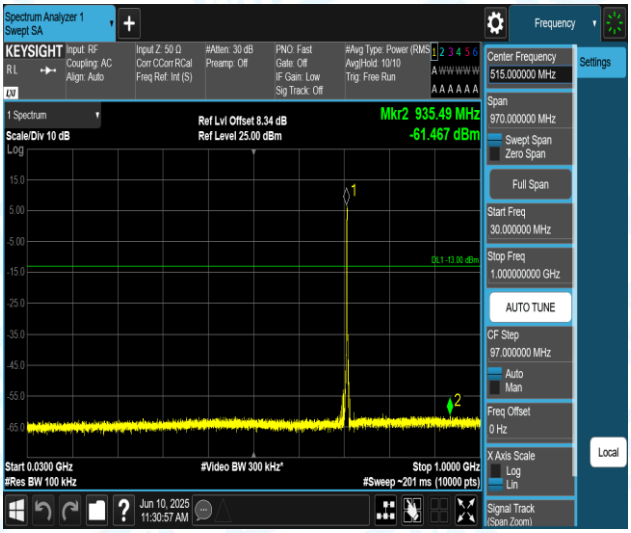

Band12-10MHz-QPSK-23130-PASS



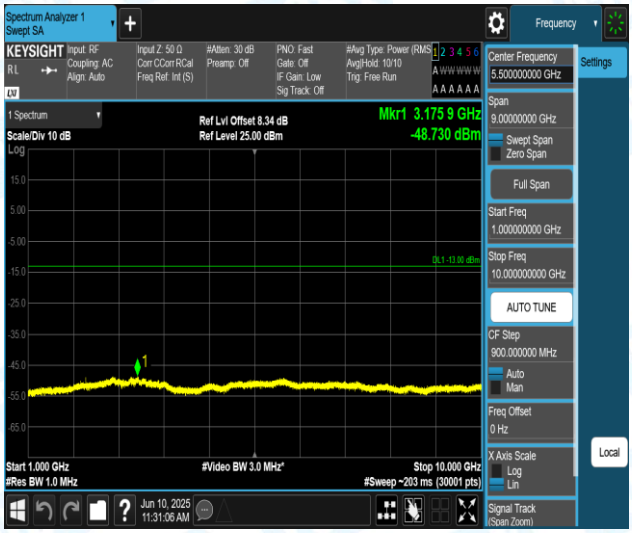

Band12-10MHz-16QAM-23130-PASS




Band12-10MHz-16QAM-23130-PASS




Band12-10MHz-16QAM-23130-PASS




Band12-10MHz-16QAM-23130-PASS

# 6: Frequency Stability for M1

## Test Result

| Voltage | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Band | Bandwidth | Modulation | Channel | RB Size | RB Start | NB Index | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band12 | 1.4MHz | QPSK | 23017 | 6 | 0 | Low | VN | NT | -15.78 | -0.022553 | ±2.5 | PASS |
| Band12 | 1.4MHz | QPSK | 23017 | 6 | 0 | Low | VL | NT | -13.23 | -0.018908 | ±2.5 | PASS |
| Band12 | 1.4MHz | QPSK | 23017 | 6 | 0 | Low | VH | NT | -15.89 | -0.022710 | ±2.5 | PASS |
| Band12 | 1.4MHz | 16QAM | 23017 | 6 | 0 | Low | VN | NT | -6.05 | -0.008647 | ±2.5 | PASS |
| Band12 | 1.4MHz | 16QAM | 23017 | 6 | 0 | Low | VL | NT | -6.63 | -0.009475 | ±2.5 | PASS |
| Band12 | 1.4MHz | 16QAM | 23017 | 6 | 0 | Low | VH | NT | -5.65 | -0.008075 | ±2.5 | PASS |
| Band12 | 1.4MHz | QPSK | 23095 | 6 | 0 | Low | VN | NT | -7.78 | -0.010996 | ±2.5 | PASS |
| Band12 | 1.4MHz | QPSK | 23095 | 6 | 0 | Low | VL | NT | -7.15 | -0.010106 | ±2.5 | PASS |
| Band12 | 1.4MHz | QPSK | 23095 | 6 | 0 | Low | VH | NT | -8.45 | -0.011943 | ±2.5 | PASS |
| Band12 | 1.4MHz | 16QAM | 23095 | 6 | 0 | Low | VN | NT | -7.39 | -0.010445 | ±2.5 | PASS |
| Band12 | 1.4MHz | 16QAM | 23095 | 6 | 0 | Low | VL | NT | -6.65 | -0.009399 | ±2.5 | PASS |
| Band12 | 1.4MHz | 16QAM | 23095 | 6 | 0 | Low | VH | NT | -6.26 | -0.008848 | ±2.5 | PASS |
| Band12 | 1.4MHz | QPSK | 23173 | 6 | 0 | High | VN | NT | -19.02 | -0.026590 | ±2.5 | PASS |
| Band12 | 1.4MHz | QPSK | 23173 | 6 | 0 | High | VL | NT | -19.11 | -0.026716 | ±2.5 | PASS |
| Band12 | 1.4MHz | QPSK | 23173 | 6 | 0 | High | VH | NT | -16.67 | -0.023305 | ±2.5 | PASS |
| Band12 | 1.4MHz | 16QAM | 23173 | 6 | 0 | High | VN | NT | -18.16 | -0.025388 | ±2.5 | PASS |
| Band12 | 1.4MHz | 16QAM | 23173 | 6 | 0 | High | VL | NT | -16.83 | -0.023529 | ±2.5 | PASS |
| Band12 | 1.4MHz | 16QAM | 23173 | 6 | 0 | High | VH | NT | -15.78 | -0.022061 | ±2.5 | PASS |
| Band12 | 3MHz | QPSK | 23025 | 6 | 0 | Low | VN | NT | -3.80 | -0.005425 | ±2.5 | PASS |
| Band12 | 3MHz | QPSK | 23025 | 6 | 0 | Low | VL | NT | 3.14 | 0.004483 | ±2.5 | PASS |
| Band12 | 3MHz | QPSK | 23025 | 6 | 0 | Low | VH | NT | 3.49 | 0.004982 | ±2.5 | PASS |
| Band12 | 3MHz | 16QAM | 23025 | 6 | 0 | Low | VN | NT | 3.92 | 0.005596 | ±2.5 | PASS |
| Band12 | 3MHz | 16QAM | 23025 | 6 | 0 | Low | VL | NT | 4.12 | 0.005882 | ±2.5 | PASS |
| Band12 | 3MHz | 16QAM | 23025 | 6 | 0 | Low | VH | NT | 3.91 | 0.005582 | ±2.5 | PASS |
| Band12 | 3MHz | QPSK | 23095 | 6 | 0 | Low | VN | NT | -7.60 | -0.010742 | ±2.5 | PASS |
| Band12 | 3MHz | QPSK | 23095 | 6 | 0 | Low | VL | NT | -5.60 | -0.007915 | ±2.5 | PASS |
| Band12 | 3MHz | QPSK | 23095 | 6 | 0 | Low | VH | NT | -8.00 | -0.011307 | ±2.5 | PASS |
| Band12 | 3MHz | 16QAM | 23095 | 6 | 0 | Low | VN | NT | -8.15 | -0.011519 | ±2.5 | PASS |
| Band12 | 3MHz | 16QAM | 23095 | 6 | 0 | Low | VL | NT | -7.77 | -0.010982 | ±2.5 | PASS |
| Band12 | 3MHz | 16QAM | 23095 | 6 | 0 | Low | VH | NT | -6.08 | -0.008594 | ±2.5 | PASS |
| Band12 | 3MHz | QPSK | 23165 | 6 | 0 | High | VN | NT | -7.83 | -0.010959 | ±2.5 | PASS |
| Band12 | 3MHz | QPSK | 23165 | 6 | 0 | High | VL | NT | -7.39 | -0.010343 | ±2.5 | PASS |
| Band12 | 3MHz | QPSK | 23165 | 6 | 0 | High | VH | NT | 8.69 | 0.012162 | ±2.5 | PASS |
| Band12 | 3MHz | 16QAM | 23165 | 6 | 0 | High | VN | NT | 7.40 | 0.010357 | ±2.5 | PASS |
| Band12 | 3MHz | 16QAM | 23165 | 6 | 0 | High | VL | NT | 6.13 | 0.008579 | ±2.5 | PASS |
| Band12 | 3MHz | 16QAM | 23165 | 6 | 0 | High | VH | NT | -7.13 | -0.009979 | ±2.5 | PASS |
| Band12 | 5MHz | QPSK | 23035 | 6 | 0 | Low | VN | NT | -4.58 | -0.006529 | ±2.5 | PASS |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Band12 | 5MHz | QPSK | 23035 | 6 | 0 | Low | VL | NT | -5.52 | -0.007869 | ±2.5 | PASS |
| Band12 | 5MHz | QPSK | 23035 | 6 | 0 | Low | VH | NT | -3.88 | -0.005531 | ±2.5 | PASS |
| Band12 | 5MHz | 16QAM | 23035 | 6 | 0 | Low | VN | NT | -4.97 | -0.007085 | ±2.5 | PASS |
| Band12 | 5MHz | 16QAM | 23035 | 6 | 0 | Low | VL | NT | -4.51 | -0.006429 | ±2.5 | PASS |
| Band12 | 5MHz | 16QAM | 23035 | 6 | 0 | Low | VH | NT | -4.67 | -0.006657 | ±2.5 | PASS |
| Band12 | 5MHz | QPSK | 23095 | 6 | 0 | Low | VN | NT | -4.33 | -0.006120 | ±2.5 | PASS |
| Band12 | 5MHz | QPSK | 23095 | 6 | 0 | Low | VL | NT | -4.32 | -0.006106 | ±2.5 | PASS |
| Band12 | 5MHz | QPSK | 23095 | 6 | 0 | Low | VH | NT | -5.15 | -0.007279 | ±2.5 | PASS |
| Band12 | 5MHz | 16QAM | 23095 | 6 | 0 | Low | VN | NT | -5.67 | -0.008014 | ±2.5 | PASS |
| Band12 | 5MHz | 16QAM | 23095 | 6 | 0 | Low | VL | NT | -4.34 | -0.006134 | ±2.5 | PASS |
| Band12 | 5MHz | 16QAM | 23095 | 6 | 0 | Low | VH | NT | -5.20 | -0.007350 | ±2.5 | PASS |
| Band12 | 5MHz | QPSK | 23155 | 6 | 0 | High | VN | NT | -6.08 | -0.008521 | ±2.5 | PASS |
| Band12 | 5MHz | QPSK | 23155 | 6 | 0 | High | VL | NT | -6.39 | -0.008956 | ±2.5 | PASS |
| Band12 | 5MHz | QPSK | 23155 | 6 | 0 | High | VH | NT | -7.02 | -0.009839 | ±2.5 | PASS |
| Band12 | 5MHz | 16QAM | 23155 | 6 | 0 | High | VN | NT | -8.50 | -0.011913 | ±2.5 | PASS |
| Band12 | 5MHz | 16QAM | 23155 | 6 | 0 | High | VL | NT | -7.77 | -0.010890 | ±2.5 | PASS |
| Band12 | 5MHz | 16QAM | 23155 | 6 | 0 | High | VH | NT | -5.62 | -0.007877 | ±2.5 | PASS |
| Band12 | 10MHz | QPSK | 23060 | 6 | 0 | Low | VN | NT | 8.87 | 0.012599 | ±2.5 | PASS |
| Band12 | 10MHz | QPSK | 23060 | 6 | 0 | Low | VL | NT | 8.22 | 0.011676 | ±2.5 | PASS |
| Band12 | 10MHz | QPSK | 23060 | 6 | 0 | Low | VH | NT | 7.83 | 0.011122 | ±2.5 | PASS |
| Band12 | 10MHz | 16QAM | 23060 | 6 | 0 | Low | VN | NT | 7.82 | 0.011108 | ±2.5 | PASS |
| Band12 | 10MHz | 16QAM | 23060 | 6 | 0 | Low | VL | NT | 9.87 | 0.014020 | ±2.5 | PASS |
| Band12 | 10MHz | 16QAM | 23060 | 6 | 0 | Low | VH | NT | 10.13 | 0.014389 | ±2.5 | PASS |
| Band12 | 10MHz | QPSK | 23095 | 6 | 0 | Low | VN | NT | 3.23 | 0.004565 | ±2.5 | PASS |
| Band12 | 10MHz | QPSK | 23095 | 6 | 0 | Low | VL | NT | 4.36 | 0.006163 | ±2.5 | PASS |
| Band12 | 10MHz | QPSK | 23095 | 6 | 0 | Low | VH | NT | 3.38 | 0.004777 | ±2.5 | PASS |
| Band12 | 10MHz | 16QAM | 23095 | 6 | 0 | Low | VN | NT | 3.69 | 0.005216 | ±2.5 | PASS |
| Band12 | 10MHz | 16QAM | 23095 | 6 | 0 | Low | VL | NT | 2.89 | 0.004085 | ±2.5 | PASS |
| Band12 | 10MHz | 16QAM | 23095 | 6 | 0 | Low | VH | NT | 3.85 | 0.005442 | ±2.5 | PASS |
| Band12 | 10MHz | QPSK | 23130 | 6 | 0 | High | VN | NT | -3.48 | -0.004895 | ±2.5 | PASS |
| Band12 | 10MHz | QPSK | 23130 | 6 | 0 | High | VL | NT | 4.49 | 0.006315 | ±2.5 | PASS |
| Band12 | 10MHz | QPSK | 23130 | 6 | 0 | High | VH | NT | 3.58 | 0.005035 | ±2.5 | PASS |
| Band12 | 10MHz | 16QAM | 23130 | 6 | 0 | High | VN | NT | 4.46 | 0.006273 | ±2.5 | PASS |
| Band12 | 10MHz | 16QAM | 23130 | 6 | 0 | High | VL | NT | 4.28 | 0.006020 | ±2.5 | PASS |
| Band12 | 10MHz | 16QAM | 23130 | 6 | 0 | High | VH | NT | 3.29 | 0.004627 | ±2.5 | PASS |

| Temperature | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Band | Bandwidth | Modulation | Channel | RB Size | RB Start | NB Index | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band12 | 1.4MHz | QPSK | 23017 | 6 | 0 | Low | NV | -10 | -19.44 | -0.027783 | ±2.5 | PASS |
| Band12 | 1.4MHz | QPSK | 23017 | 6 | 0 | Low | NV | 0 | -15.77 | -0.022538 | ±2.5 | PASS |
| Band12 | 1.4MHz | QPSK | 23017 | 6 | 0 | Low | NV | 10 | -14.33 | -0.020480 | ±2.5 | PASS |
| Band12 | 1.4MHz | QPSK | 23017 | 6 | 0 | Low | NV | 20 | -16.95 | -0.024225 | ±2.5 | PASS |
| Band12 | 1.4MHz | QPSK | 23017 | 6 | 0 | Low | NV | 30 | -6.06 | -0.008661 | ±2.5 | PASS |
| Band12 | 1.4MHz | QPSK | 23017 | 6 | 0 | Low | NV | 40 | -16.53 | -0.023624 | ±2.5 | PASS |
| Band12 | 1.4MHz | QPSK | 23017 | 6 | 0 | Low | NV | 50 | -6.62 | -0.009461 | ±2.5 | PASS |
| Band12 | 1.4MHz | 16QAM | 23017 | 6 | 0 | Low | NV | -10 | -7.25 | -0.010362 | ±2.5 | PASS |
| Band12 | 1.4MHz | 16QAM | 23017 | 6 | 0 | Low | NV | 0 | -8.77 | -0.012534 | ±2.5 | PASS |
| Band12 | 1.4MHz | 16QAM | 23017 | 6 | 0 | Low | NV | 10 | -15.18 | -0.021695 | ±2.5 | PASS |
| Band12 | 1.4MHz | 16QAM | 23017 | 6 | 0 | Low | NV | 20 | -7.25 | -0.010362 | ±2.5 | PASS |
| Band12 | 1.4MHz | 16QAM | 23017 | 6 | 0 | Low | NV | 30 | -7.86 | -0.011233 | ±2.5 | PASS |
| Band12 | 1.4MHz | 16QAM | 23017 | 6 | 0 | Low | NV | 40 | -8.27 | -0.011819 | ±2.5 | PASS |
| Band12 | 1.4MHz | 16QAM | 23017 | 6 | 0 | Low | NV | 50 | -7.89 | -0.011276 | ±2.5 | PASS |
| Band12 | 1.4MHz | QPSK | 23095 | 6 | 0 | Low | NV | -10 | -8.02 | -0.011336 | ±2.5 | PASS |
| Band12 | 1.4MHz | QPSK | 23095 | 6 | 0 | Low | NV | 0 | -7.25 | -0.010247 | ±2.5 | PASS |
| Band12 | 1.4MHz | QPSK | 23095 | 6 | 0 | Low | NV | 10 | -7.18 | -0.010148 | ±2.5 | PASS |
| Band12 | 1.4MHz | QPSK | 23095 | 6 | 0 | Low | NV | 20 | -8.30 | -0.011731 | ±2.5 | PASS |
| Band12 | 1.4MHz | QPSK | 23095 | 6 | 0 | Low | NV | 30 | -5.38 | -0.007604 | ±2.5 | PASS |
| Band12 | 1.4MHz | QPSK | 23095 | 6 | 0 | Low | NV | 40 | -8.18 | -0.011562 | ±2.5 | PASS |
| Band12 | 1.4MHz | QPSK | 23095 | 6 | 0 | Low | NV | 50 | -5.80 | -0.008198 | ±2.5 | PASS |
| Band12 | 1.4MHz | 16QAM | 23095 | 6 | 0 | Low | NV | -10 | -9.00 | -0.012721 | ±2.5 | PASS |
| Band12 | 1.4MHz | 16QAM | 23095 | 6 | 0 | Low | NV | 0 | -7.62 | -0.010770 | ±2.5 | PASS |
| Band12 | 1.4MHz | 16QAM | 23095 | 6 | 0 | Low | NV | 10 | -7.63 | -0.010784 | ±2.5 | PASS |
| Band12 | 1.4MHz | 16QAM | 23095 | 6 | 0 | Low | NV | 20 | -6.80 | -0.009611 | ±2.5 | PASS |
| Band12 | 1.4MHz | 16QAM | 23095 | 6 | 0 | Low | NV | 30 | -8.00 | -0.011307 | ±2.5 | PASS |
| Band12 | 1.4MHz | 16QAM | 23095 | 6 | 0 | Low | NV | 40 | -9.68 | -0.013682 | ±2.5 | PASS |
| Band12 | 1.4MHz | 16QAM | 23095 | 6 | 0 | Low | NV | 50 | -7.20 | -0.010177 | ±2.5 | PASS |
| Band12 | 1.4MHz | QPSK | 23173 | 6 | 0 | High | NV | -10 | -17.09 | -0.023892 | ±2.5 | PASS |
| Band12 | 1.4MHz | QPSK | 23173 | 6 | 0 | High | NV | 0 | -16.24 | -0.022704 | ±2.5 | PASS |
| Band12 | 1.4MHz | QPSK | 23173 | 6 | 0 | High | NV | 10 | -16.50 | -0.023067 | ±2.5 | PASS |
| Band12 | 1.4MHz | QPSK | 23173 | 6 | 0 | High | NV | 20 | -15.80 | -0.022089 | ±2.5 | PASS |
| Band12 | 1.4MHz | QPSK | 23173 | 6 | 0 | High | NV | 30 | -15.84 | -0.022145 | ±2.5 | PASS |
| Band12 | 1.4MHz | QPSK | 23173 | 6 | 0 | High | NV | 40 | -17.17 | -0.024004 | ±2.5 | PASS |
| Band12 | 1.4MHz | QPSK | 23173 | 6 | 0 | High | NV | 50 | -15.59 | -0.021795 | ±2.5 | PASS |
| Band12 | 1.4MHz | 16QAM | 23173 | 6 | 0 | High | NV | -10 | -15.20 | -0.021250 | ±2.5 | PASS |
| Band12 | 1.4MHz | 16QAM | 23173 | 6 | 0 | High | NV | 0 | -15.40 | -0.021529 | ±2.5 | PASS |
| Band12 | 1.4MHz | 16QAM | 23173 | 6 | 0 | High | NV | 10 | -15.86 | -0.022173 | ±2.5 | PASS |
| Band12 | 1.4MHz | 16QAM | 23173 | 6 | 0 | High | NV | 20 | -17.10 | -0.023906 | ±2.5 | PASS |
| Band12 | 1.4MHz | 16QAM | 23173 | 6 | 0 | High | NV | 30 | -16.14 | -0.022564 | ±2.5 | PASS |
| Band12 | 1.4MHz | 16QAM | 23173 | 6 | 0 | High | NV | 40 | -16.66 | -0.023291 | ±2.5 | PASS |
| Band12 | 1.4MHz | 16QAM | 23173 | 6 | 0 | High | NV | 50 | -17.31 | -0.024200 | ±2.5 | PASS |
| Band12 | 3MHz | QPSK | 23025 | 6 | 0 | Low | NV | -10 | 3.37 | 0.004811 | ±2.5 | PASS |
| Band12 | 3MHz | QPSK | 23025 | 6 | 0 | Low | NV | 0 | -3.99 | -0.005696 | ±2.5 | PASS |
| Band12 | 3MHz | QPSK | 23025 | 6 | 0 | Low | NV | 10 | -3.65 | -0.005211 | ±2.5 | PASS |
| Band12 | 3MHz | QPSK | 23025 | 6 | 0 | Low | NV | 20 | -3.36 | -0.004797 | ±2.5 | PASS |
| Band12 | 3MHz | QPSK | 23025 | 6 | 0 | Low | NV | 30 | -4.27 | -0.006096 | ±2.5 | PASS |
| Band12 | 3MHz | QPSK | 23025 | 6 | 0 | Low | NV | 40 | 2.73 | 0.003897 | ±2.5 | PASS |
| Band12 | 3MHz | QPSK | 23025 | 6 | 0 | Low | NV | 50 | -4.20 | -0.005996 | ±2.5 | PASS |
| Band12 | 3MHz | 16QAM | 23025 | 6 | 0 | Low | NV | -10 | -2.76 | -0.003940 | ±2.5 | PASS |