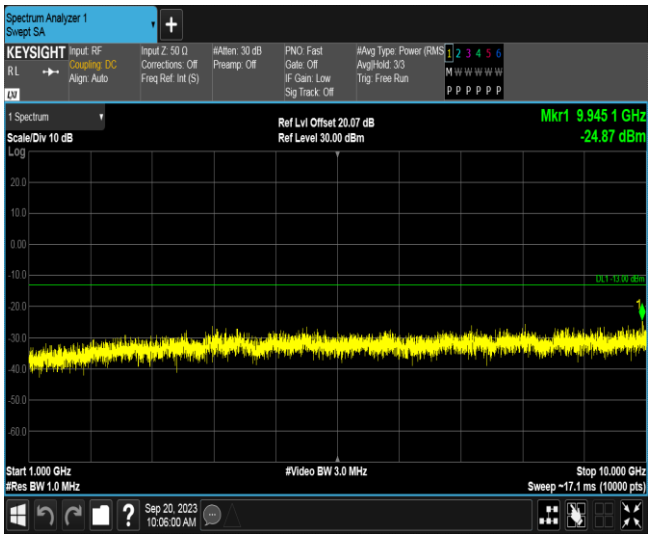
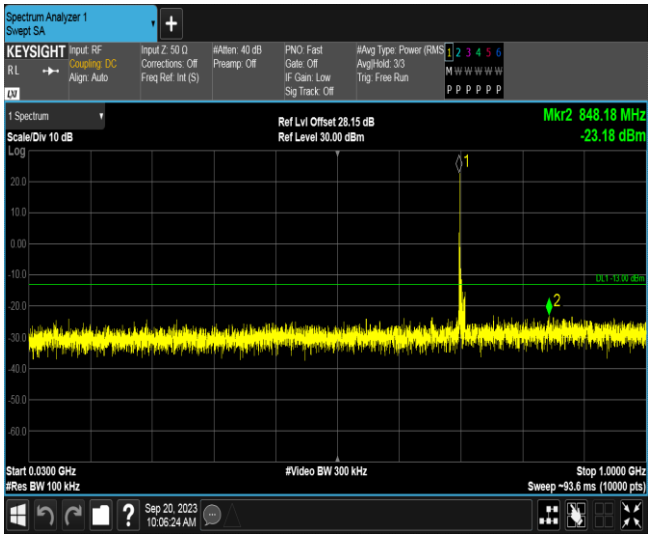
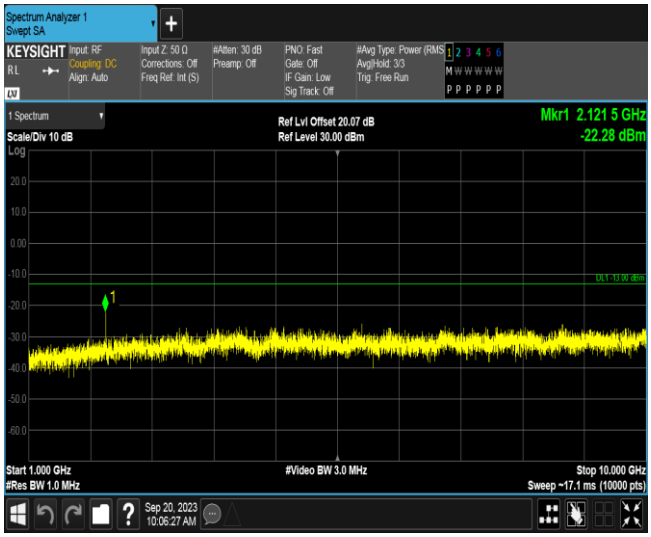



Band17-10MHz-QPSK-23800-1RB#0-Range1:30~1000MHz




Band17-10MHz-QPSK-23800-1RB#0-Range2:1000~10000MHz

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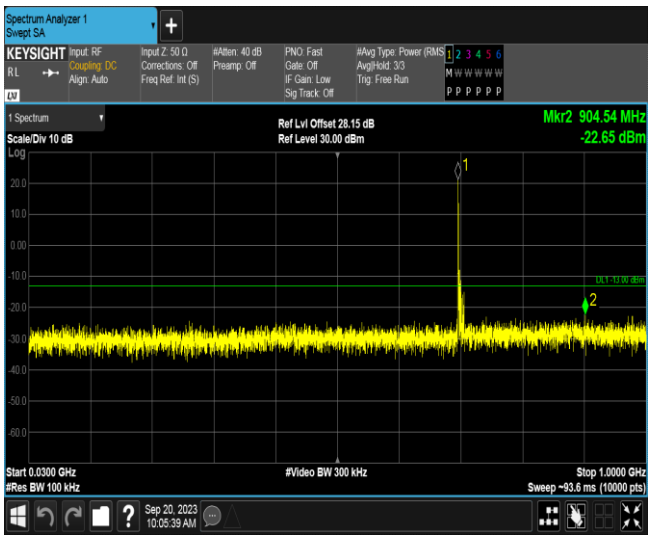
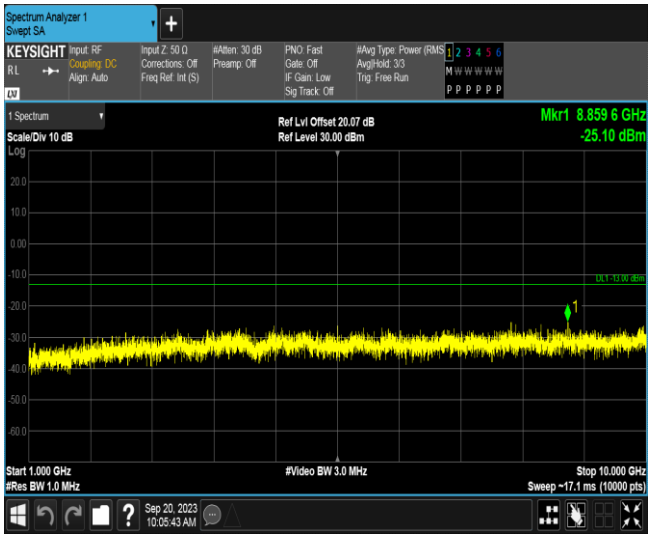
| Band17-10MHz-16QAM-23780-1RB#0-Range1:30~1000MHz |
|---|
|  |
| Band17-10MHz-16QAM-23780-1RB#0-Range2:1000~10000MHz |
|  |
| Band17-10MHz-16QAM-23790-1RB#0-Range1:30~1000MHz |





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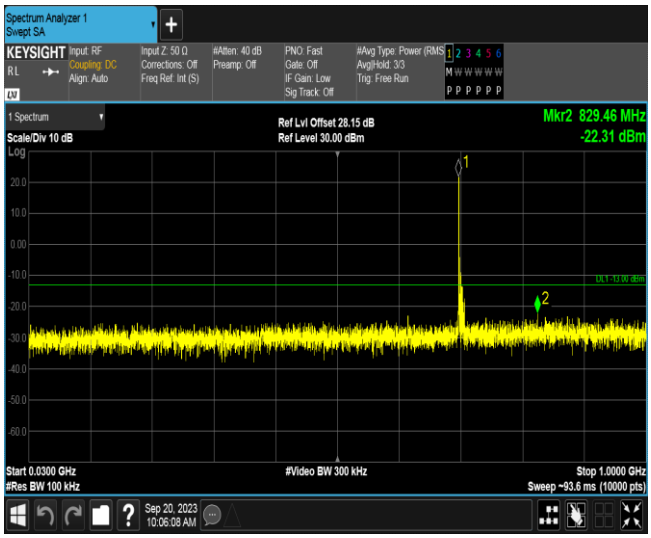
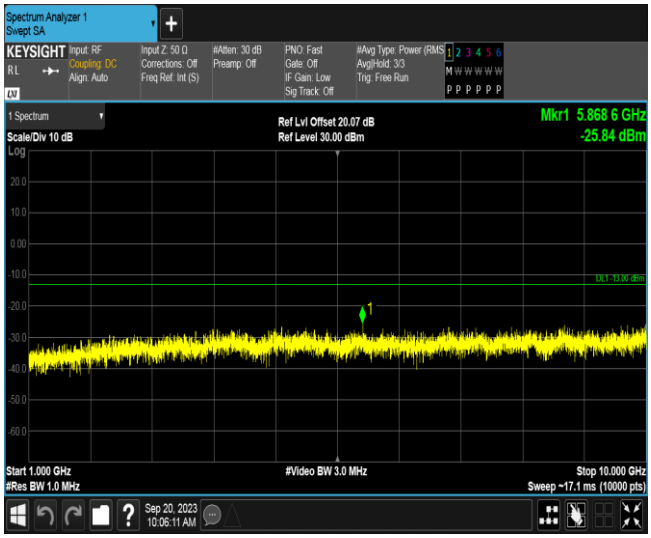
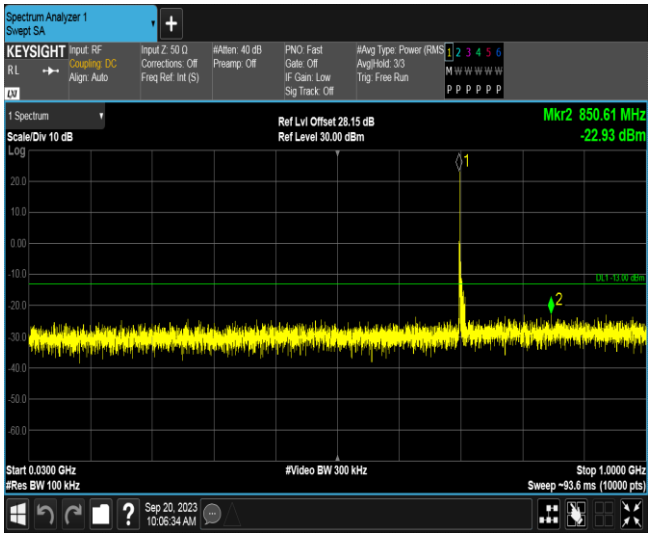



Band17-10MHz-16QAM-23790-1RB#0-Range2:1000~10000MHz




Band17-10MHz-16QAM-23800-1RB#0-Range1:30~1000MHz

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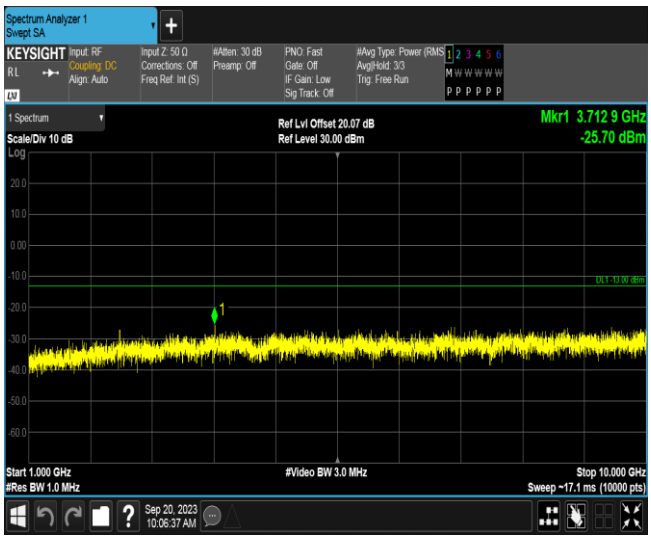
| Band17-10MHz-16QAM-23800-1RB#0-Range2:1000~10000MHz |
| --- |
|  |



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## Appendix F: Frequency Stability

### Test Result

| Voltage | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Band | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band17 | 5MHz | QPSK | 23755 | 25RB#0 | VL | NT | -11.07 | -0.015669 | ±2.5 | PASS |
| Band17 | 5MHz | QPSK | 23755 | 25RB#0 | VN | NT | -12.93 | -0.018301 | ±2.5 | PASS |
| Band17 | 5MHz | QPSK | 23755 | 25RB#0 | VH | NT | -9.37 | -0.013263 | ±2.5 | PASS |
| Band17 | 5MHz | QPSK | 23790 | 25RB#0 | VL | NT | 24.76 | 0.034873 | ±2.5 | PASS |
| Band17 | 5MHz | QPSK | 23790 | 25RB#0 | VN | NT | 32.96 | 0.046423 | ±2.5 | PASS |
| Band17 | 5MHz | QPSK | 23790 | 25RB#0 | VH | NT | 11.20 | 0.015775 | ±2.5 | PASS |
| Band17 | 5MHz | QPSK | 23825 | 25RB#0 | VL | NT | -10.69 | -0.014982 | ±2.5 | PASS |
| Band17 | 5MHz | QPSK | 23825 | 25RB#0 | VN | NT | -16.94 | -0.023742 | ±2.5 | PASS |
| Band17 | 5MHz | QPSK | 23825 | 25RB#0 | VH | NT | 30.30 | 0.042467 | ±2.5 | PASS |
| Band17 | 5MHz | 16QAM | 23755 | 25RB#0 | VL | NT | 44.23 | 0.062604 | ±2.5 | PASS |
| Band17 | 5MHz | 16QAM | 23755 | 25RB#0 | VN | NT | 46.29 | 0.065520 | ±2.5 | PASS |
| Band17 | 5MHz | 16QAM | 23755 | 25RB#0 | VH | NT | 32.43 | 0.045902 | ±2.5 | PASS |
| Band17 | 5MHz | 16QAM | 23790 | 25RB#0 | VL | NT | 44.16 | 0.062197 | ±2.5 | PASS |
| Band17 | 5MHz | 16QAM | 23790 | 25RB#0 | VN | NT | 16.97 | 0.023901 | ±2.5 | PASS |
| Band17 | 5MHz | 16QAM | 23790 | 25RB#0 | VH | NT | 23.00 | 0.032394 | ±2.5 | PASS |
| Band17 | 5MHz | 16QAM | 23825 | 25RB#0 | VL | NT | 28.72 | 0.040252 | ±2.5 | PASS |
| Band17 | 5MHz | 16QAM | 23825 | 25RB#0 | VN | NT | 15.66 | 0.021948 | ±2.5 | PASS |
| Band17 | 5MHz | 16QAM | 23825 | 25RB#0 | VH | NT | 33.55 | 0.047022 | ±2.5 | PASS |
| Band17 | 10MHz | QPSK | 23780 | 50RB#0 | VL | NT | -12.73 | -0.017955 | ±2.5 | PASS |
| Band17 | 10MHz | QPSK | 23780 | 50RB#0 | VN | NT | -33.32 | -0.046996 | ±2.5 | PASS |
| Band17 | 10MHz | QPSK | 23780 | 50RB#0 | VH | NT | 26.19 | 0.036939 | ±2.5 | PASS |
| Band17 | 10MHz | QPSK | 23790 | 50RB#0 | VL | NT | -18.88 | -0.026592 | ±2.5 | PASS |
| Band17 | 10MHz | QPSK | 23790 | 50RB#0 | VN | NT | -18.35 | -0.025845 | ±2.5 | PASS |
| Band17 | 10MHz | QPSK | 23790 | 50RB#0 | VH | NT | 3.98 | 0.005606 | ±2.5 | PASS |
| Band17 | 10MHz | QPSK | 23800 | 50RB#0 | VL | NT | -25.58 | -0.035977 | ±2.5 | PASS |
| Band17 | 10MHz | QPSK | 23800 | 50RB#0 | VN | NT | -20.00 | -0.028129 | ±2.5 | PASS |
| Band17 | 10MHz | QPSK | 23800 | 50RB#0 | VH | NT | 2.60 | 0.003657 | ±2.5 | PASS |
| Band17 | 10MHz | 16QAM | 23780 | 50RB#0 | VL | NT | 39.45 | 0.055642 | ±2.5 | PASS |
| Band17 | 10MHz | 16QAM | 23780 | 50RB#0 | VN | NT | 29.73 | 0.041932 | ±2.5 | PASS |
| Band17 | 10MHz | 16QAM | 23780 | 50RB#0 | VH | NT | 42.04 | 0.059295 | ±2.5 | PASS |
| Band17 | 10MHz | 16QAM | 23790 | 50RB#0 | VL | NT | 14.42 | 0.020310 | ±2.5 | PASS |
| Band17 | 10MHz | 16QAM | 23790 | 50RB#0 | VN | NT | 8.44 | 0.011887 | ±2.5 | PASS |

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| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Band17 | 10MHz | 16QAM | 23790 | 50RB#0 | VH | NT | 16.45 | 0.023169 | ±2.5 | PASS |
| Band17 | 10MHz | 16QAM | 23800 | 50RB#0 | VL | NT | 30.47 | 0.042855 | ±2.5 | PASS |
| Band17 | 10MHz | 16QAM | 23800 | 50RB#0 | VN | NT | 31.37 | 0.044121 | ±2.5 | PASS |
| Band17 | 10MHz | 16QAM | 23800 | 50RB#0 | VH | NT | 28.20 | 0.039662 | ±2.5 | PASS |

| Temperature | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Band | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band17 | 5MHz | QPSK | 23755 | 25RB#0 | NV | -30 | -2.19 | -0.003100 | ±2.5 | PASS |
| Band17 | 5MHz | QPSK | 23755 | 25RB#0 | NV | -20 | 7.54 | 0.010672 | ±2.5 | PASS |
| Band17 | 5MHz | QPSK | 23755 | 25RB#0 | NV | 0 | 17.44 | 0.024685 | ±2.5 | PASS |
| Band17 | 5MHz | QPSK | 23755 | 25RB#0 | NV | 10 | 26.12 | 0.036971 | ±2.5 | PASS |
| Band17 | 5MHz | QPSK | 23755 | 25RB#0 | NV | 20 | 35.35 | 0.050035 | ±2.5 | PASS |
| Band17 | 5MHz | QPSK | 23790 | 25RB#0 | NV | -30 | 38.88 | 0.054761 | ±2.5 | PASS |
| Band17 | 5MHz | QPSK | 23790 | 25RB#0 | NV | -20 | 8.81 | 0.012408 | ±2.5 | PASS |
| Band17 | 5MHz | QPSK | 23790 | 25RB#0 | NV | 0 | 17.88 | 0.025183 | ±2.5 | PASS |
| Band17 | 5MHz | QPSK | 23790 | 25RB#0 | NV | 10 | 25.06 | 0.035296 | ±2.5 | PASS |
| Band17 | 5MHz | QPSK | 23790 | 25RB#0 | NV | 20 | 20.90 | 0.029437 | ±2.5 | PASS |
| Band17 | 5MHz | QPSK | 23825 | 25RB#0 | NV | -30 | 10.67 | 0.014954 | ±2.5 | PASS |
| Band17 | 5MHz | QPSK | 23825 | 25RB#0 | NV | -20 | 45.39 | 0.063616 | ±2.5 | PASS |
| Band17 | 5MHz | QPSK | 23825 | 25RB#0 | NV | 0 | 24.23 | 0.033959 | ±2.5 | PASS |
| Band17 | 5MHz | QPSK | 23825 | 25RB#0 | NV | 10 | 9.73 | 0.013637 | ±2.5 | PASS |
| Band17 | 5MHz | QPSK | 23825 | 25RB#0 | NV | 20 | 35.42 | 0.049643 | ±2.5 | PASS |
| Band17 | 5MHz | 16QAM | 23755 | 25RB#0 | NV | -30 | 27.57 | 0.039023 | ±2.5 | PASS |
| Band17 | 5MHz | 16QAM | 23755 | 25RB#0 | NV | -20 | 23.06 | 0.032640 | ±2.5 | PASS |
| Band17 | 5MHz | 16QAM | 23755 | 25RB#0 | NV | 0 | 19.81 | 0.028040 | ±2.5 | PASS |
| Band17 | 5MHz | 16QAM | 23755 | 25RB#0 | NV | 10 | 16.95 | 0.023992 | ±2.5 | PASS |
| Band17 | 5MHz | 16QAM | 23755 | 25RB#0 | NV | 20 | 12.52 | 0.017721 | ±2.5 | PASS |
| Band17 | 5MHz | 16QAM | 23790 | 25RB#0 | NV | -30 | 39.83 | 0.056099 | ±2.5 | PASS |
| Band17 | 5MHz | 16QAM | 23790 | 25RB#0 | NV | -20 | 11.14 | 0.015690 | ±2.5 | PASS |
| Band17 | 5MHz | 16QAM | 23790 | 25RB#0 | NV | 0 | 28.58 | 0.040254 | ±2.5 | PASS |
| Band17 | 5MHz | 16QAM | 23790 | 25RB#0 | NV | 10 | 39.87 | 0.056155 | ±2.5 | PASS |
| Band17 | 5MHz | 16QAM | 23790 | 25RB#0 | NV | 20 | 8.05 | 0.011338 | ±2.5 | PASS |
| Band17 | 5MHz | 16QAM | 23825 | 25RB#0 | NV | -30 | 37.51 | 0.052572 | ±2.5 | PASS |
| Band17 | 5MHz | 16QAM | 23825 | 25RB#0 | NV | -20 | 41.23 | 0.057786 | ±2.5 | PASS |
| Band17 | 5MHz | 16QAM | 23825 | 25RB#0 | NV | 0 | 44.88 | 0.062901 | ±2.5 | PASS |
| Band17 | 5MHz | 16QAM | 23825 | 25RB#0 | NV | 10 | -5.14 | -0.007204 | ±2.5 | PASS |
| Band17 | 5MHz | 16QAM | 23825 | 25RB#0 | NV | 20 | 5.66 | 0.007933 | ±2.5 | PASS |
| Band17 | 10MHz | QPSK | 23780 | 50RB#0 | NV | -30 | 13.00 | 0.018336 | ±2.5 | PASS |

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| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Band17 | 10MHz | QPSK | 23780 | 50RB#0 | NV | -20 | 48.87 | 0.068928 | ±2.5 | PASS |
| Band17 | 10MHz | QPSK | 23780 | 50RB#0 | NV | 0 | 34.98 | 0.049337 | ±2.5 | PASS |
| Band17 | 10MHz | QPSK | 23780 | 50RB#0 | NV | 10 | 13.40 | 0.018900 | ±2.5 | PASS |
| Band17 | 10MHz | QPSK | 23780 | 50RB#0 | NV | 20 | 9.73 | 0.013724 | ±2.5 | PASS |
| Band17 | 10MHz | QPSK | 23790 | 50RB#0 | NV | -30 | 30.68 | 0.043211 | ±2.5 | PASS |
| Band17 | 10MHz | QPSK | 23790 | 50RB#0 | NV | -20 | 15.36 | 0.021634 | ±2.5 | PASS |
| Band17 | 10MHz | QPSK | 23790 | 50RB#0 | NV | 0 | 42.51 | 0.059873 | ±2.5 | PASS |
| Band17 | 10MHz | QPSK | 23790 | 50RB#0 | NV | 10 | 13.85 | 0.019507 | ±2.5 | PASS |
| Band17 | 10MHz | QPSK | 23790 | 50RB#0 | NV | 20 | 34.53 | 0.048634 | ±2.5 | PASS |
| Band17 | 10MHz | QPSK | 23800 | 50RB#0 | NV | -30 | 16.69 | 0.023474 | ±2.5 | PASS |
| Band17 | 10MHz | QPSK | 23800 | 50RB#0 | NV | -20 | 30.30 | 0.042616 | ±2.5 | PASS |
| Band17 | 10MHz | QPSK | 23800 | 50RB#0 | NV | 0 | 41.43 | 0.058270 | ±2.5 | PASS |
| Band17 | 10MHz | QPSK | 23800 | 50RB#0 | NV | 10 | 12.66 | 0.017806 | ±2.5 | PASS |
| Band17 | 10MHz | QPSK | 23800 | 50RB#0 | NV | 20 | 22.89 | 0.032194 | ±2.5 | PASS |
| Band17 | 10MHz | 16QAM | 23780 | 50RB#0 | NV | -30 | 45.89 | 0.064725 | ±2.5 | PASS |
| Band17 | 10MHz | 16QAM | 23780 | 50RB#0 | NV | -20 | 48.11 | 0.067856 | ±2.5 | PASS |
| Band17 | 10MHz | 16QAM | 23780 | 50RB#0 | NV | 0 | -5.05 | -0.007123 | ±2.5 | PASS |
| Band17 | 10MHz | 16QAM | 23780 | 50RB#0 | NV | 10 | -3.43 | -0.004838 | ±2.5 | PASS |
| Band17 | 10MHz | 16QAM | 23780 | 50RB#0 | NV | 20 | -2.47 | -0.003484 | ±2.5 | PASS |
| Band17 | 10MHz | 16QAM | 23790 | 50RB#0 | NV | -30 | 17.58 | 0.024761 | ±2.5 | PASS |
| Band17 | 10MHz | 16QAM | 23790 | 50RB#0 | NV | -20 | 18.54 | 0.026113 | ±2.5 | PASS |
| Band17 | 10MHz | 16QAM | 23790 | 50RB#0 | NV | 0 | 19.97 | 0.028127 | ±2.5 | PASS |
| Band17 | 10MHz | 16QAM | 23790 | 50RB#0 | NV | 10 | 19.51 | 0.027479 | ±2.5 | PASS |
| Band17 | 10MHz | 16QAM | 23790 | 50RB#0 | NV | 20 | 22.63 | 0.031873 | ±2.5 | PASS |
| Band17 | 10MHz | 16QAM | 23800 | 50RB#0 | NV | -30 | 23.19 | 0.032616 | ±2.5 | PASS |
| Band17 | 10MHz | 16QAM | 23800 | 50RB#0 | NV | -20 | 21.99 | 0.030928 | ±2.5 | PASS |
| Band17 | 10MHz | 16QAM | 23800 | 50RB#0 | NV | 0 | 21.44 | 0.030155 | ±2.5 | PASS |
| Band17 | 10MHz | 16QAM | 23800 | 50RB#0 | NV | 10 | 19.40 | 0.027286 | ±2.5 | PASS |
| Band17 | 10MHz | 16QAM | 23800 | 50RB#0 | NV | 20 | 18.75 | 0.026371 | ±2.5 | PASS |

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