















Appendix F: Frequency Stability for SA

Test Result

Frequency Error VS. Voltage

| Voltage | | | | | | | | | | |
|---------|-----|-----------|------------|---------|------------|---------|-------------|---------------|-----------------|---------|
| Band | SCS | Bandwidth | Modulation | Channel | RB Config | Voltage | Temperature | Deviation(Hz) | Deviation (ppm) | Verdict |
| N25 | 15 | 5 | CP-QPSK | L | Outer_Full | VL | NT | -7.79 | 0.00 | PASS |
| N25 | 15 | 5 | CP-QPSK | L | Outer_Full | VN | NT | -8.86 | 0.00 | PASS |
| N25 | 15 | 5 | CP-QPSK | L | Outer_Full | VH | NT | -4.95 | 0.00 | PASS |
| N25 | 15 | 5 | CP-16QAM | L | Outer_Full | VL | NT | -5.68 | 0.00 | PASS |
| N25 | 15 | 5 | CP-16QAM | L | Outer_Full | VN | NT | 0.13 | 0.00 | PASS |
| N25 | 15 | 5 | CP-16QAM | L | Outer_Full | VH | NT | -4.61 | 0.00 | PASS |
| N25 | 15 | 5 | CP-QPSK | M | Outer_Full | VL | NT | -2.98 | 0.00 | PASS |
| N25 | 15 | 5 | CP-QPSK | M | Outer_Full | VN | NT | 4.60 | 0.00 | PASS |
| N25 | 15 | 5 | CP-QPSK | M | Outer_Full | VH | NT | -80.47 | -0.04 | PASS |
| N25 | 15 | 5 | CP-16QAM | M | Outer_Full | VL | NT | -2.01 | 0.00 | PASS |
| N25 | 15 | 5 | CP-16QAM | M | Outer_Full | VN | NT | -14.76 | -0.01 | PASS |
| N25 | 15 | 5 | CP-16QAM | M | Outer_Full | VH | NT | -30.71 | -0.02 | PASS |
| N25 | 15 | 5 | CP-QPSK | H | Outer_Full | VL | NT | -100.55 | -0.05 | PASS |
| N25 | 15 | 5 | CP-QPSK | H | Outer_Full | VN | NT | -8.84 | 0.00 | PASS |
| N25 | 15 | 5 | CP-QPSK | H | Outer_Full | VH | NT | -6.41 | 0.00 | PASS |
| N25 | 15 | 5 | CP-16QAM | H | Outer_Full | VL | NT | -0.21 | 0.00 | PASS |
| N25 | 15 | 5 | CP-16QAM | H | Outer_Full | VN | NT | -14.71 | -0.01 | PASS |
| N25 | 15 | 5 | CP-16QAM | H | Outer_Full | VH | NT | -9.75 | -0.01 | PASS |
| N25 | 15 | 10 | CP-QPSK | L | Outer_Full | VL | NT | -5.05 | 0.00 | PASS |
| N25 | 15 | 10 | CP-QPSK | L | Outer_Full | VN | NT | 1.68 | 0.00 | PASS |
| N25 | 15 | 10 | CP-QPSK | L | Outer_Full | VH | NT | 1.80 | 0.00 | PASS |
| N25 | 15 | 10 | CP-16QAM | L | Outer_Full | VL | NT | -12.66 | -0.01 | PASS |
| N25 | 15 | 10 | CP-16QAM | L | Outer_Full | VN | NT | -6.87 | 0.00 | PASS |
| N25 | 15 | 10 | CP-16QAM | L | Outer_Full | VH | NT | -0.11 | 0.00 | PASS |
| N25 | 15 | 10 | CP-QPSK | M | Outer_Full | VL | NT | -15.53 | -0.01 | PASS |
| N25 | 15 | 10 | CP-QPSK | M | Outer_Full | VN | NT | -16.23 | -0.01 | PASS |
| N25 | 15 | 10 | CP-QPSK | M | Outer_Full | VH | NT | -4.04 | 0.00 | PASS |
| N25 | 15 | 10 | CP-16QAM | M | Outer_Full | VL | NT | 3.46 | 0.00 | PASS |
| N25 | 15 | 10 | CP-16QAM | M | Outer_Full | VN | NT | -7.61 | 0.00 | PASS |
| N25 | 15 | 10 | CP-16QAM | M | Outer_Full | VH | NT | -17.15 | -0.01 | PASS |
| N25 | 15 | 10 | CP-QPSK | H | Outer_Full | VL | NT | 1.00 | 0.00 | PASS |
| N25 | 15 | 10 | CP-QPSK | H | Outer_Full | VN | NT | 3.55 | 0.00 | PASS |

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|-----|----|----|----------|---|------------|----|----|--------|-------|------|
| N25 | 15 | 10 | CP-QPSK | H | Outer_Full | VH | NT | -1.59 | 0.00 | PASS |
| N25 | 15 | 10 | CP-16QAM | H | Outer_Full | VL | NT | 13.35 | 0.01 | PASS |
| N25 | 15 | 10 | CP-16QAM | H | Outer_Full | VN | NT | 17.17 | 0.01 | PASS |
| N25 | 15 | 10 | CP-16QAM | H | Outer_Full | VH | NT | 2.75 | 0.00 | PASS |
| N25 | 15 | 15 | CP-QPSK | L | Outer_Full | VL | NT | 2.46 | 0.00 | PASS |
| N25 | 15 | 15 | CP-QPSK | L | Outer_Full | VN | NT | 9.40 | 0.01 | PASS |
| N25 | 15 | 15 | CP-QPSK | L | Outer_Full | VH | NT | 11.10 | 0.01 | PASS |
| N25 | 15 | 15 | CP-16QAM | L | Outer_Full | VL | NT | 5.61 | 0.00 | PASS |
| N25 | 15 | 15 | CP-16QAM | L | Outer_Full | VN | NT | 13.65 | 0.01 | PASS |
| N25 | 15 | 15 | CP-16QAM | L | Outer_Full | VH | NT | 3.43 | 0.00 | PASS |
| N25 | 15 | 15 | CP-QPSK | M | Outer_Full | VL | NT | -15.51 | -0.01 | PASS |
| N25 | 15 | 15 | CP-QPSK | M | Outer_Full | VN | NT | 5.10 | 0.00 | PASS |
| N25 | 15 | 15 | CP-QPSK | M | Outer_Full | VH | NT | -6.16 | 0.00 | PASS |
| N25 | 15 | 15 | CP-16QAM | M | Outer_Full | VL | NT | -0.23 | 0.00 | PASS |
| N25 | 15 | 15 | CP-16QAM | M | Outer_Full | VN | NT | -9.52 | -0.01 | PASS |
| N25 | 15 | 15 | CP-16QAM | M | Outer_Full | VH | NT | -17.00 | -0.01 | PASS |
| N25 | 15 | 15 | CP-QPSK | H | Outer_Full | VL | NT | -10.14 | -0.01 | PASS |
| N25 | 15 | 15 | CP-QPSK | H | Outer_Full | VN | NT | -10.86 | -0.01 | PASS |
| N25 | 15 | 15 | CP-QPSK | H | Outer_Full | VH | NT | -1.14 | 0.00 | PASS |
| N25 | 15 | 15 | CP-16QAM | H | Outer_Full | VL | NT | -0.07 | 0.00 | PASS |
| N25 | 15 | 15 | CP-16QAM | H | Outer_Full | VN | NT | -0.54 | 0.00 | PASS |
| N25 | 15 | 15 | CP-16QAM | H | Outer_Full | VH | NT | -0.66 | 0.00 | PASS |
| N25 | 15 | 20 | CP-QPSK | L | Outer_Full | VL | NT | -4.27 | 0.00 | PASS |
| N25 | 15 | 20 | CP-QPSK | L | Outer_Full | VN | NT | -18.15 | -0.01 | PASS |
| N25 | 15 | 20 | CP-QPSK | L | Outer_Full | VH | NT | -1.43 | 0.00 | PASS |
| N25 | 15 | 20 | CP-16QAM | L | Outer_Full | VL | NT | 0.44 | 0.00 | PASS |
| N25 | 15 | 20 | CP-16QAM | L | Outer_Full | VN | NT | -14.70 | -0.01 | PASS |
| N25 | 15 | 20 | CP-16QAM | L | Outer_Full | VH | NT | -8.07 | 0.00 | PASS |
| N25 | 15 | 20 | CP-QPSK | M | Outer_Full | VL | NT | -9.33 | 0.00 | PASS |
| N25 | 15 | 20 | CP-QPSK | M | Outer_Full | VN | NT | -14.07 | -0.01 | PASS |
| N25 | 15 | 20 | CP-QPSK | M | Outer_Full | VH | NT | -6.92 | 0.00 | PASS |
| N25 | 15 | 20 | CP-16QAM | M | Outer_Full | VL | NT | -14.26 | -0.01 | PASS |
| N25 | 15 | 20 | CP-16QAM | M | Outer_Full | VN | NT | -2.52 | 0.00 | PASS |
| N25 | 15 | 20 | CP-16QAM | M | Outer_Full | VH | NT | -15.72 | -0.01 | PASS |
| N25 | 15 | 20 | CP-QPSK | H | Outer_Full | VL | NT | -7.36 | 0.00 | PASS |
| N25 | 15 | 20 | CP-QPSK | H | Outer_Full | VN | NT | -13.18 | -0.01 | PASS |
| N25 | 15 | 20 | CP-QPSK | H | Outer_Full | VH | NT | -13.03 | -0.01 | PASS |
| N25 | 15 | 20 | CP-16QAM | H | Outer_Full | VL | NT | -4.82 | 0.00 | PASS |
| N25 | 15 | 20 | CP-16QAM | H | Outer_Full | VN | NT | -15.29 | -0.01 | PASS |
| N25 | 15 | 20 | CP-16QAM | H | Outer_Full | VH | NT | -6.56 | 0.00 | PASS |

Frequency Error VS. Temperature

| Voltage | | | | | | | | | | |
|---------|-----|-----------|------------|---------|------------|---------|-------------|---------------|-----------------|---------|
| Band | SCS | Bandwidth | Modulation | Channel | RB Config | Voltage | Temperature | Deviation(Hz) | Deviation (ppm) | Verdict |
| N25 | 15 | 5 | CP-QPSK | L | Outer_Full | NV | -30 | -68.682358 | -0.037075 | PASS |
| N25 | 15 | 5 | CP-QPSK | L | Outer_Full | NV | -20 | -7.268205 | -0.003923 | PASS |
| N25 | 15 | 5 | CP-QPSK | L | Outer_Full | NV | -10 | -16.071980 | -0.008676 | PASS |
| N25 | 15 | 5 | CP-QPSK | L | Outer_Full | NV | 0 | 42.939281 | 0.023179 | PASS |
| N25 | 15 | 5 | CP-QPSK | L | Outer_Full | NV | 10 | -59.602814 | -0.032174 | PASS |
| N25 | 15 | 5 | CP-QPSK | L | Outer_Full | NV | 20 | -7.833858 | -0.004229 | PASS |
| N25 | 15 | 5 | CP-QPSK | L | Outer_Full | NV | 30 | -16.744310 | -0.009039 | PASS |
| N25 | 15 | 5 | CP-QPSK | L | Outer_Full | NV | 40 | -8.821857 | -0.004762 | PASS |
| N25 | 15 | 5 | CP-QPSK | L | Outer_Full | NV | 50 | -1.314644 | -0.000710 | PASS |
| N25 | 15 | 5 | CP-16QAM | L | Outer_Full | NV | -30 | -6.766618 | -0.003653 | PASS |
| N25 | 15 | 5 | CP-16QAM | L | Outer_Full | NV | -20 | 27.973495 | 0.015100 | PASS |
| N25 | 15 | 5 | CP-16QAM | L | Outer_Full | NV | -10 | 4.085266 | 0.002205 | PASS |
| N25 | 15 | 5 | CP-16QAM | L | Outer_Full | NV | 0 | -11.654478 | -0.006291 | PASS |
| N25 | 15 | 5 | CP-16QAM | L | Outer_Full | NV | 10 | -7.746725 | -0.004182 | PASS |
| N25 | 15 | 5 | CP-16QAM | L | Outer_Full | NV | 20 | -3.994122 | -0.002156 | PASS |
| N25 | 15 | 5 | CP-16QAM | L | Outer_Full | NV | 30 | -52.970627 | -0.028594 | PASS |
| N25 | 15 | 5 | CP-16QAM | L | Outer_Full | NV | 40 | -68.861031 | -0.037172 | PASS |
| N25 | 15 | 5 | CP-16QAM | L | Outer_Full | NV | 50 | -13.085005 | -0.007063 | PASS |
| N25 | 15 | 5 | CP-QPSK | M | Outer_Full | NV | -30 | -0.482636 | -0.000256 | PASS |
| N25 | 15 | 5 | CP-QPSK | M | Outer_Full | NV | -20 | 1.170277 | 0.000622 | PASS |
| N25 | 15 | 5 | CP-QPSK | M | Outer_Full | NV | -10 | -38.445480 | -0.020423 | PASS |
| N25 | 15 | 5 | CP-QPSK | M | Outer_Full | NV | 0 | -127.478012 | -0.067717 | PASS |
| N25 | 15 | 5 | CP-QPSK | M | Outer_Full | NV | 10 | 83.891380 | 0.044564 | PASS |
| N25 | 15 | 5 | CP-QPSK | M | Outer_Full | NV | 20 | -64.378052 | -0.034198 | PASS |
| N25 | 15 | 5 | CP-QPSK | M | Outer_Full | NV | 30 | -10.227058 | -0.005433 | PASS |
| N25 | 15 | 5 | CP-QPSK | M | Outer_Full | NV | 40 | -60.586273 | -0.032184 | PASS |
| N25 | 15 | 5 | CP-QPSK | M | Outer_Full | NV | 50 | -15.243419 | -0.008097 | PASS |
| N25 | 15 | 5 | CP-16QAM | M | Outer_Full | NV | -30 | -5.281933 | -0.002806 | PASS |
| N25 | 15 | 5 | CP-16QAM | M | Outer_Full | NV | -20 | -51.866741 | -0.027552 | PASS |
| N25 | 15 | 5 | CP-16QAM | M | Outer_Full | NV | -10 | 0.364461 | 0.000194 | PASS |
| N25 | 15 | 5 | CP-16QAM | M | Outer_Full | NV | 0 | 19.473755 | 0.010345 | PASS |
| N25 | 15 | 5 | CP-16QAM | M | Outer_Full | NV | 10 | -91.150902 | -0.048420 | PASS |
| N25 | 15 | 5 | CP-16QAM | M | Outer_Full | NV | 20 | -14.509307 | -0.007707 | PASS |
| N25 | 15 | 5 | CP-16QAM | M | Outer_Full | NV | 30 | -3.529372 | -0.001875 | PASS |
| N25 | 15 | 5 | CP-16QAM | M | Outer_Full | NV | 40 | 11.645917 | 0.006186 | PASS |
| N25 | 15 | 5 | CP-16QAM | M | Outer_Full | NV | 50 | -5.144192 | -0.002733 | PASS |

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|-----|----|----|----------|---|------------|----|-----|------------|-----------|------|
| N25 | 15 | 5 | CP-QPSK | H | Outer_Full | NV | -30 | -32.807762 | -0.017154 | PASS |
| N25 | 15 | 5 | CP-QPSK | H | Outer_Full | NV | -20 | -3.197588 | -0.001672 | PASS |
| N25 | 15 | 5 | CP-QPSK | H | Outer_Full | NV | -10 | -7.276779 | -0.003805 | PASS |
| N25 | 15 | 5 | CP-QPSK | H | Outer_Full | NV | 0 | -41.639679 | -0.021772 | PASS |
| N25 | 15 | 5 | CP-QPSK | H | Outer_Full | NV | 10 | -9.767709 | -0.005107 | PASS |
| N25 | 15 | 5 | CP-QPSK | H | Outer_Full | NV | 20 | -9.840281 | -0.005145 | PASS |
| N25 | 15 | 5 | CP-QPSK | H | Outer_Full | NV | 30 | 102.642914 | 0.053669 | PASS |
| N25 | 15 | 5 | CP-QPSK | H | Outer_Full | NV | 40 | -6.746613 | -0.003528 | PASS |
| N25 | 15 | 5 | CP-QPSK | H | Outer_Full | NV | 50 | 76.073883 | 0.039777 | PASS |
| N25 | 15 | 5 | CP-16QAM | H | Outer_Full | NV | -30 | 46.611156 | 0.024372 | PASS |
| N25 | 15 | 5 | CP-16QAM | H | Outer_Full | NV | -20 | -2.399156 | -0.001254 | PASS |
| N25 | 15 | 5 | CP-16QAM | H | Outer_Full | NV | -10 | 27.938820 | 0.014609 | PASS |
| N25 | 15 | 5 | CP-16QAM | H | Outer_Full | NV | 0 | -10.810829 | -0.005653 | PASS |
| N25 | 15 | 5 | CP-16QAM | H | Outer_Full | NV | 10 | -28.012846 | -0.014647 | PASS |
| N25 | 15 | 5 | CP-16QAM | H | Outer_Full | NV | 20 | -2.040399 | -0.001067 | PASS |
| N25 | 15 | 5 | CP-16QAM | H | Outer_Full | NV | 30 | 39.044483 | 0.020415 | PASS |
| N25 | 15 | 5 | CP-16QAM | H | Outer_Full | NV | 40 | -91.936935 | -0.048072 | PASS |
| N25 | 15 | 5 | CP-16QAM | H | Outer_Full | NV | 50 | 61.319538 | 0.032063 | PASS |
| N25 | 15 | 10 | CP-QPSK | L | Outer_Full | NV | -30 | -9.760477 | -0.005262 | PASS |
| N25 | 15 | 10 | CP-QPSK | L | Outer_Full | NV | -20 | 1.446754 | 0.000780 | PASS |
| N25 | 15 | 10 | CP-QPSK | L | Outer_Full | NV | -10 | -2.543789 | -0.001371 | PASS |
| N25 | 15 | 10 | CP-QPSK | L | Outer_Full | NV | 0 | -5.791784 | -0.003122 | PASS |
| N25 | 15 | 10 | CP-QPSK | L | Outer_Full | NV | 10 | -6.240540 | -0.003364 | PASS |
| N25 | 15 | 10 | CP-QPSK | L | Outer_Full | NV | 20 | -4.414085 | -0.002380 | PASS |
| N25 | 15 | 10 | CP-QPSK | L | Outer_Full | NV | 30 | -3.211464 | -0.001731 | PASS |
| N25 | 15 | 10 | CP-QPSK | L | Outer_Full | NV | 40 | -0.055713 | -0.000030 | PASS |
| N25 | 15 | 10 | CP-QPSK | L | Outer_Full | NV | 50 | 5.976925 | 0.003222 | PASS |
| N25 | 15 | 10 | CP-16QAM | L | Outer_Full | NV | -30 | -10.748330 | -0.005794 | PASS |
| N25 | 15 | 10 | CP-16QAM | L | Outer_Full | NV | -20 | -4.951322 | -0.002669 | PASS |
| N25 | 15 | 10 | CP-16QAM | L | Outer_Full | NV | -10 | 0.741402 | 0.000400 | PASS |
| N25 | 15 | 10 | CP-16QAM | L | Outer_Full | NV | 0 | -8.345760 | -0.004499 | PASS |
| N25 | 15 | 10 | CP-16QAM | L | Outer_Full | NV | 10 | -0.503637 | -0.000272 | PASS |
| N25 | 15 | 10 | CP-16QAM | L | Outer_Full | NV | 20 | -9.801416 | -0.005284 | PASS |
| N25 | 15 | 10 | CP-16QAM | L | Outer_Full | NV | 30 | -0.103404 | -0.000056 | PASS |
| N25 | 15 | 10 | CP-16QAM | L | Outer_Full | NV | 40 | -10.420610 | -0.005618 | PASS |
| N25 | 15 | 10 | CP-16QAM | L | Outer_Full | NV | 50 | -0.011932 | -0.000006 | PASS |
| N25 | 15 | 10 | CP-QPSK | M | Outer_Full | NV | -30 | -10.119549 | -0.005376 | PASS |
| N25 | 15 | 10 | CP-QPSK | M | Outer_Full | NV | -20 | -12.625726 | -0.006707 | PASS |
| N25 | 15 | 10 | CP-QPSK | M | Outer_Full | NV | -10 | -8.070512 | -0.004287 | PASS |
| N25 | 15 | 10 | CP-QPSK | M | Outer_Full | NV | 0 | -2.320089 | -0.001232 | PASS |
| N25 | 15 | 10 | CP-QPSK | M | Outer_Full | NV | 10 | -17.007172 | -0.009034 | PASS |

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|-----|----|----|----------|---|------------|----|-----|------------|-----------|------|
| N25 | 15 | 10 | CP-QPSK | M | Outer_Full | NV | 20 | -11.235956 | -0.005969 | PASS |
| N25 | 15 | 10 | CP-QPSK | M | Outer_Full | NV | 30 | -2.173427 | -0.001155 | PASS |
| N25 | 15 | 10 | CP-QPSK | M | Outer_Full | NV | 40 | -14.304643 | -0.007599 | PASS |
| N25 | 15 | 10 | CP-QPSK | M | Outer_Full | NV | 50 | -3.607839 | -0.001917 | PASS |
| N25 | 15 | 10 | CP-16QAM | M | Outer_Full | NV | -30 | -4.753349 | -0.002525 | PASS |
| N25 | 15 | 10 | CP-16QAM | M | Outer_Full | NV | -20 | -14.149084 | -0.007516 | PASS |
| N25 | 15 | 10 | CP-16QAM | M | Outer_Full | NV | -10 | -0.723651 | -0.000384 | PASS |
| N25 | 15 | 10 | CP-16QAM | M | Outer_Full | NV | 0 | -9.041697 | -0.004803 | PASS |
| N25 | 15 | 10 | CP-16QAM | M | Outer_Full | NV | 10 | 3.694119 | 0.001962 | PASS |
| N25 | 15 | 10 | CP-16QAM | M | Outer_Full | NV | 20 | -4.101540 | -0.002179 | PASS |
| N25 | 15 | 10 | CP-16QAM | M | Outer_Full | NV | 30 | -11.963457 | -0.006355 | PASS |
| N25 | 15 | 10 | CP-16QAM | M | Outer_Full | NV | 40 | 1.759728 | 0.000935 | PASS |
| N25 | 15 | 10 | CP-16QAM | M | Outer_Full | NV | 50 | -4.166720 | -0.002213 | PASS |
| N25 | 15 | 10 | CP-QPSK | H | Outer_Full | NV | -30 | -0.228060 | -0.000119 | PASS |
| N25 | 15 | 10 | CP-QPSK | H | Outer_Full | NV | -20 | 6.818936 | 0.003570 | PASS |
| N25 | 15 | 10 | CP-QPSK | H | Outer_Full | NV | -10 | -4.039562 | -0.002115 | PASS |
| N25 | 15 | 10 | CP-QPSK | H | Outer_Full | NV | 0 | 7.372375 | 0.003860 | PASS |
| N25 | 15 | 10 | CP-QPSK | H | Outer_Full | NV | 10 | 0.209793 | 0.000110 | PASS |
| N25 | 15 | 10 | CP-QPSK | H | Outer_Full | NV | 20 | -2.906584 | -0.001522 | PASS |
| N25 | 15 | 10 | CP-QPSK | H | Outer_Full | NV | 30 | 14.520311 | 0.007602 | PASS |
| N25 | 15 | 10 | CP-QPSK | H | Outer_Full | NV | 40 | 13.114868 | 0.006866 | PASS |
| N25 | 15 | 10 | CP-QPSK | H | Outer_Full | NV | 50 | 14.519264 | 0.007602 | PASS |
| N25 | 15 | 10 | CP-16QAM | H | Outer_Full | NV | -30 | 7.293375 | 0.003819 | PASS |
| N25 | 15 | 10 | CP-16QAM | H | Outer_Full | NV | -20 | 12.339979 | 0.006461 | PASS |
| N25 | 15 | 10 | CP-16QAM | H | Outer_Full | NV | -10 | -0.434101 | -0.000227 | PASS |
| N25 | 15 | 10 | CP-16QAM | H | Outer_Full | NV | 0 | 8.525954 | 0.004464 | PASS |
| N25 | 15 | 10 | CP-16QAM | H | Outer_Full | NV | 10 | -3.479360 | -0.001822 | PASS |
| N25 | 15 | 10 | CP-16QAM | H | Outer_Full | NV | 20 | 6.493258 | 0.003400 | PASS |
| N25 | 15 | 10 | CP-16QAM | H | Outer_Full | NV | 30 | -1.662174 | -0.000870 | PASS |
| N25 | 15 | 10 | CP-16QAM | H | Outer_Full | NV | 40 | 7.489539 | 0.003921 | PASS |
| N25 | 15 | 10 | CP-16QAM | H | Outer_Full | NV | 50 | -1.357590 | -0.000711 | PASS |
| N25 | 15 | 15 | CP-QPSK | L | Outer_Full | NV | -30 | -0.598600 | -0.000322 | PASS |
| N25 | 15 | 15 | CP-QPSK | L | Outer_Full | NV | -20 | 15.168956 | 0.008166 | PASS |
| N25 | 15 | 15 | CP-QPSK | L | Outer_Full | NV | -10 | 12.457837 | 0.006707 | PASS |
| N25 | 15 | 15 | CP-QPSK | L | Outer_Full | NV | 0 | 13.512713 | 0.007275 | PASS |
| N25 | 15 | 15 | CP-QPSK | L | Outer_Full | NV | 10 | -3.061211 | -0.001648 | PASS |
| N25 | 15 | 15 | CP-QPSK | L | Outer_Full | NV | 20 | 3.582651 | 0.001929 | PASS |
| N25 | 15 | 15 | CP-QPSK | L | Outer_Full | NV | 30 | 7.063711 | 0.003803 | PASS |
| N25 | 15 | 15 | CP-QPSK | L | Outer_Full | NV | 40 | 13.358827 | 0.007192 | PASS |
| N25 | 15 | 15 | CP-QPSK | L | Outer_Full | NV | 50 | 2.593920 | 0.001396 | PASS |
| N25 | 15 | 15 | CP-16QAM | L | Outer_Full | NV | -30 | 11.898420 | 0.006406 | PASS |

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|-----|----|----|----------|---|------------|----|-----|------------|-----------|------|
| N25 | 15 | 15 | CP-16QAM | L | Outer_Full | NV | -20 | 3.733147 | 0.002010 | PASS |
| N25 | 15 | 15 | CP-16QAM | L | Outer_Full | NV | -10 | 11.949703 | 0.006433 | PASS |
| N25 | 15 | 15 | CP-16QAM | L | Outer_Full | NV | 0 | 3.989449 | 0.002148 | PASS |
| N25 | 15 | 15 | CP-16QAM | L | Outer_Full | NV | 10 | 14.736344 | 0.007933 | PASS |
| N25 | 15 | 15 | CP-16QAM | L | Outer_Full | NV | 20 | 7.821206 | 0.004211 | PASS |
| N25 | 15 | 15 | CP-16QAM | L | Outer_Full | NV | 30 | -2.513535 | -0.001353 | PASS |
| N25 | 15 | 15 | CP-16QAM | L | Outer_Full | NV | 40 | 10.543349 | 0.005676 | PASS |
| N25 | 15 | 15 | CP-16QAM | L | Outer_Full | NV | 50 | 0.497584 | 0.000268 | PASS |
| N25 | 15 | 15 | CP-QPSK | M | Outer_Full | NV | -30 | -12.433264 | -0.006605 | PASS |
| N25 | 15 | 15 | CP-QPSK | M | Outer_Full | NV | -20 | -13.901696 | -0.007385 | PASS |
| N25 | 15 | 15 | CP-QPSK | M | Outer_Full | NV | -10 | -11.797772 | -0.006267 | PASS |
| N25 | 15 | 15 | CP-QPSK | M | Outer_Full | NV | 0 | -5.954943 | -0.003163 | PASS |
| N25 | 15 | 15 | CP-QPSK | M | Outer_Full | NV | 10 | 0.827737 | 0.000440 | PASS |
| N25 | 15 | 15 | CP-QPSK | M | Outer_Full | NV | 20 | -13.102071 | -0.006960 | PASS |
| N25 | 15 | 15 | CP-QPSK | M | Outer_Full | NV | 30 | -4.505936 | -0.002394 | PASS |
| N25 | 15 | 15 | CP-QPSK | M | Outer_Full | NV | 40 | -16.687325 | -0.008864 | PASS |
| N25 | 15 | 15 | CP-QPSK | M | Outer_Full | NV | 50 | -6.215610 | -0.003302 | PASS |
| N25 | 15 | 15 | CP-16QAM | M | Outer_Full | NV | -30 | -5.111293 | -0.002715 | PASS |
| N25 | 15 | 15 | CP-16QAM | M | Outer_Full | NV | -20 | -12.746854 | -0.006771 | PASS |
| N25 | 15 | 15 | CP-16QAM | M | Outer_Full | NV | -10 | 0.496099 | 0.000264 | PASS |
| N25 | 15 | 15 | CP-16QAM | M | Outer_Full | NV | 0 | -8.115205 | -0.004311 | PASS |
| N25 | 15 | 15 | CP-16QAM | M | Outer_Full | NV | 10 | -17.231354 | -0.009153 | PASS |
| N25 | 15 | 15 | CP-16QAM | M | Outer_Full | NV | 20 | -4.046269 | -0.002149 | PASS |
| N25 | 15 | 15 | CP-16QAM | M | Outer_Full | NV | 30 | -10.695744 | -0.005682 | PASS |
| N25 | 15 | 15 | CP-16QAM | M | Outer_Full | NV | 40 | -18.471487 | -0.009812 | PASS |
| N25 | 15 | 15 | CP-16QAM | M | Outer_Full | NV | 50 | -4.688756 | -0.002491 | PASS |
| N25 | 15 | 15 | CP-QPSK | H | Outer_Full | NV | -30 | -1.581913 | -0.000829 | PASS |
| N25 | 15 | 15 | CP-QPSK | H | Outer_Full | NV | -20 | 0.024919 | 0.000013 | PASS |
| N25 | 15 | 15 | CP-QPSK | H | Outer_Full | NV | -10 | -13.063861 | -0.006849 | PASS |
| N25 | 15 | 15 | CP-QPSK | H | Outer_Full | NV | 0 | -4.725967 | -0.002478 | PASS |
| N25 | 15 | 15 | CP-QPSK | H | Outer_Full | NV | 10 | 4.440676 | 0.002328 | PASS |
| N25 | 15 | 15 | CP-QPSK | H | Outer_Full | NV | 20 | 0.397856 | 0.000209 | PASS |
| N25 | 15 | 15 | CP-QPSK | H | Outer_Full | NV | 30 | -5.557076 | -0.002913 | PASS |
| N25 | 15 | 15 | CP-QPSK | H | Outer_Full | NV | 40 | -8.840607 | -0.004635 | PASS |
| N25 | 15 | 15 | CP-QPSK | H | Outer_Full | NV | 50 | 6.834713 | 0.003583 | PASS |
| N25 | 15 | 15 | CP-16QAM | H | Outer_Full | NV | -30 | 1.536987 | 0.000806 | PASS |
| N25 | 15 | 15 | CP-16QAM | H | Outer_Full | NV | -20 | 4.939645 | 0.002590 | PASS |
| N25 | 15 | 15 | CP-16QAM | H | Outer_Full | NV | -10 | 6.829987 | 0.003581 | PASS |
| N25 | 15 | 15 | CP-16QAM | H | Outer_Full | NV | 0 | -9.074353 | -0.004757 | PASS |
| N25 | 15 | 15 | CP-16QAM | H | Outer_Full | NV | 10 | -7.264624 | -0.003808 | PASS |
| N25 | 15 | 15 | CP-16QAM | H | Outer_Full | NV | 20 | -1.486958 | -0.000780 | PASS |

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|-----|----|----|----------|---|------------|----|-----|------------|-----------|------|
| N25 | 15 | 15 | CP-16QAM | H | Outer_Full | NV | 30 | 3.018821 | 0.001583 | PASS |
| N25 | 15 | 15 | CP-16QAM | H | Outer_Full | NV | 40 | -10.128796 | -0.005310 | PASS |
| N25 | 15 | 15 | CP-16QAM | H | Outer_Full | NV | 50 | -4.496916 | -0.002357 | PASS |
| N25 | 15 | 20 | CP-QPSK | L | Outer_Full | NV | -30 | -13.927947 | -0.007488 | PASS |
| N25 | 15 | 20 | CP-QPSK | L | Outer_Full | NV | -20 | -2.316576 | -0.001245 | PASS |
| N25 | 15 | 20 | CP-QPSK | L | Outer_Full | NV | -10 | -6.223029 | -0.003346 | PASS |
| N25 | 15 | 20 | CP-QPSK | L | Outer_Full | NV | 0 | -10.721918 | -0.005764 | PASS |
| N25 | 15 | 20 | CP-QPSK | L | Outer_Full | NV | 10 | -10.305694 | -0.005541 | PASS |
| N25 | 15 | 20 | CP-QPSK | L | Outer_Full | NV | 20 | -9.279444 | -0.004989 | PASS |
| N25 | 15 | 20 | CP-QPSK | L | Outer_Full | NV | 30 | -7.467454 | -0.004015 | PASS |
| N25 | 15 | 20 | CP-QPSK | L | Outer_Full | NV | 40 | -4.492264 | -0.002415 | PASS |
| N25 | 15 | 20 | CP-QPSK | L | Outer_Full | NV | 50 | -0.317925 | -0.000171 | PASS |
| N25 | 15 | 20 | CP-16QAM | L | Outer_Full | NV | -30 | -1.499680 | -0.000806 | PASS |
| N25 | 15 | 20 | CP-16QAM | L | Outer_Full | NV | -20 | -13.046204 | -0.007014 | PASS |
| N25 | 15 | 20 | CP-16QAM | L | Outer_Full | NV | -10 | -5.778866 | -0.003107 | PASS |
| N25 | 15 | 20 | CP-16QAM | L | Outer_Full | NV | 0 | 0.878962 | 0.000473 | PASS |
| N25 | 15 | 20 | CP-16QAM | L | Outer_Full | NV | 10 | -8.367213 | -0.004499 | PASS |
| N25 | 15 | 20 | CP-16QAM | L | Outer_Full | NV | 20 | 0.442333 | 0.000238 | PASS |
| N25 | 15 | 20 | CP-16QAM | L | Outer_Full | NV | 30 | -10.138400 | -0.005451 | PASS |
| N25 | 15 | 20 | CP-16QAM | L | Outer_Full | NV | 40 | -0.396325 | -0.000213 | PASS |
| N25 | 15 | 20 | CP-16QAM | L | Outer_Full | NV | 50 | -8.633371 | -0.004642 | PASS |
| N25 | 15 | 20 | CP-QPSK | M | Outer_Full | NV | -30 | -13.651170 | -0.007252 | PASS |
| N25 | 15 | 20 | CP-QPSK | M | Outer_Full | NV | -20 | -17.229330 | -0.009152 | PASS |
| N25 | 15 | 20 | CP-QPSK | M | Outer_Full | NV | -10 | -14.924091 | -0.007928 | PASS |
| N25 | 15 | 20 | CP-QPSK | M | Outer_Full | NV | 0 | -11.787254 | -0.006261 | PASS |
| N25 | 15 | 20 | CP-QPSK | M | Outer_Full | NV | 10 | -5.937088 | -0.003154 | PASS |
| N25 | 15 | 20 | CP-QPSK | M | Outer_Full | NV | 20 | 0.572961 | 0.000304 | PASS |
| N25 | 15 | 20 | CP-QPSK | M | Outer_Full | NV | 30 | -15.281521 | -0.008118 | PASS |
| N25 | 15 | 20 | CP-QPSK | M | Outer_Full | NV | 40 | -5.611063 | -0.002981 | PASS |
| N25 | 15 | 20 | CP-QPSK | M | Outer_Full | NV | 50 | 3.968989 | 0.002108 | PASS |
| N25 | 15 | 20 | CP-16QAM | M | Outer_Full | NV | -30 | -1.980781 | -0.001052 | PASS |
| N25 | 15 | 20 | CP-16QAM | M | Outer_Full | NV | -20 | -13.638433 | -0.007245 | PASS |
| N25 | 15 | 20 | CP-16QAM | M | Outer_Full | NV | -10 | 1.535531 | 0.000816 | PASS |
| N25 | 15 | 20 | CP-16QAM | M | Outer_Full | NV | 0 | -9.281115 | -0.004930 | PASS |
| N25 | 15 | 20 | CP-16QAM | M | Outer_Full | NV | 10 | 4.756804 | 0.002527 | PASS |
| N25 | 15 | 20 | CP-16QAM | M | Outer_Full | NV | 20 | -4.072854 | -0.002164 | PASS |
| N25 | 15 | 20 | CP-16QAM | M | Outer_Full | NV | 30 | -12.607521 | -0.006697 | PASS |
| N25 | 15 | 20 | CP-16QAM | M | Outer_Full | NV | 40 | 0.415551 | 0.000221 | PASS |
| N25 | 15 | 20 | CP-16QAM | M | Outer_Full | NV | 50 | -7.311647 | -0.003884 | PASS |
| N25 | 15 | 20 | CP-QPSK | H | Outer_Full | NV | -30 | -1.658510 | -0.000871 | PASS |
| N25 | 15 | 20 | CP-QPSK | H | Outer_Full | NV | -20 | -4.182914 | -0.002196 | PASS |

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|-----|----|----|----------|---|------------|----|-----|------------|-----------|------|
| N25 | 15 | 20 | CP-QPSK | H | Outer_Full | NV | -10 | -4.305096 | -0.002260 | PASS |
| N25 | 15 | 20 | CP-QPSK | H | Outer_Full | NV | 0 | -1.776126 | -0.000932 | PASS |
| N25 | 15 | 20 | CP-QPSK | H | Outer_Full | NV | 10 | 1.428689 | 0.000750 | PASS |
| N25 | 15 | 20 | CP-QPSK | H | Outer_Full | NV | 20 | -12.018409 | -0.006309 | PASS |
| N25 | 15 | 20 | CP-QPSK | H | Outer_Full | NV | 30 | -6.904215 | -0.003624 | PASS |
| N25 | 15 | 20 | CP-QPSK | H | Outer_Full | NV | 40 | -18.758537 | -0.009847 | PASS |
| N25 | 15 | 20 | CP-QPSK | H | Outer_Full | NV | 50 | -10.208224 | -0.005359 | PASS |
| N25 | 15 | 20 | CP-16QAM | H | Outer_Full | NV | -30 | -16.255503 | -0.008533 | PASS |
| N25 | 15 | 20 | CP-16QAM | H | Outer_Full | NV | -20 | -5.917382 | -0.003106 | PASS |
| N25 | 15 | 20 | CP-16QAM | H | Outer_Full | NV | -10 | -14.396916 | -0.007557 | PASS |
| N25 | 15 | 20 | CP-16QAM | H | Outer_Full | NV | 0 | -3.880527 | -0.002037 | PASS |
| N25 | 15 | 20 | CP-16QAM | H | Outer_Full | NV | 10 | -11.937691 | -0.006267 | PASS |
| N25 | 15 | 20 | CP-16QAM | H | Outer_Full | NV | 20 | -1.088487 | -0.000571 | PASS |
| N25 | 15 | 20 | CP-16QAM | H | Outer_Full | NV | 30 | -7.935885 | -0.004166 | PASS |
| N25 | 15 | 20 | CP-16QAM | H | Outer_Full | NV | 40 | -15.256895 | -0.008009 | PASS |
| N25 | 15 | 20 | CP-16QAM | H | Outer_Full | NV | 50 | -3.044554 | -0.001598 | PASS |