

















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 |
| N71 | 15 | 5 | CP-QPSK | L | Outer_Full | VL | NT | -6.12 | -0.01 | PASS |
| N71 | 15 | 5 | CP-QPSK | L | Outer_Full | VN | NT | -12.61 | -0.02 | PASS |
| N71 | 15 | 5 | CP-QPSK | L | Outer_Full | VH | NT | 48.27 | 0.07 | PASS |
| N71 | 15 | 5 | CP-16QAM | L | Outer_Full | VL | NT | -5.70 | -0.01 | PASS |
| N71 | 15 | 5 | CP-16QAM | L | Outer_Full | VN | NT | -4.71 | -0.01 | PASS |
| N71 | 15 | 5 | CP-16QAM | L | Outer_Full | VH | NT | 7.02 | 0.01 | PASS |
| N71 | 15 | 5 | CP-QPSK | M | Outer_Full | VL | NT | -3.90 | -0.01 | PASS |
| N71 | 15 | 5 | CP-QPSK | M | Outer_Full | VN | NT | -7.91 | -0.01 | PASS |
| N71 | 15 | 5 | CP-QPSK | M | Outer_Full | VH | NT | -55.63 | -0.08 | PASS |
| N71 | 15 | 5 | CP-16QAM | M | Outer_Full | VL | NT | 32.21 | 0.05 | PASS |
| N71 | 15 | 5 | CP-16QAM | M | Outer_Full | VN | NT | -116.45 | -0.17 | PASS |
| N71 | 15 | 5 | CP-16QAM | M | Outer_Full | VH | NT | 14.08 | 0.02 | PASS |
| N71 | 15 | 5 | CP-QPSK | H | Outer_Full | VL | NT | 20.19 | 0.03 | PASS |
| N71 | 15 | 5 | CP-QPSK | H | Outer_Full | VN | NT | 26.69 | 0.04 | PASS |
| N71 | 15 | 5 | CP-QPSK | H | Outer_Full | VH | NT | -3.46 | 0.00 | PASS |
| N71 | 15 | 5 | CP-16QAM | H | Outer_Full | VL | NT | -3.00 | 0.00 | PASS |
| N71 | 15 | 5 | CP-16QAM | H | Outer_Full | VN | NT | -3.24 | 0.00 | PASS |
| N71 | 15 | 5 | CP-16QAM | H | Outer_Full | VH | NT | 36.69 | 0.05 | PASS |
| N71 | 15 | 10 | CP-QPSK | L | Outer_Full | VL | NT | 0.53 | 0.00 | PASS |
| N71 | 15 | 10 | CP-QPSK | L | Outer_Full | VN | NT | -56.86 | -0.09 | PASS |
| N71 | 15 | 10 | CP-QPSK | L | Outer_Full | VH | NT | 75.39 | 0.11 | PASS |
| N71 | 15 | 10 | CP-16QAM | L | Outer_Full | VL | NT | -109.46 | -0.16 | PASS |
| N71 | 15 | 10 | CP-16QAM | L | Outer_Full | VN | NT | 1.39 | 0.00 | PASS |
| N71 | 15 | 10 | CP-16QAM | L | Outer_Full | VH | NT | 1.58 | 0.00 | PASS |
| N71 | 15 | 10 | CP-QPSK | M | Outer_Full | VL | NT | 44.03 | 0.06 | PASS |
| N71 | 15 | 10 | CP-QPSK | M | Outer_Full | VN | NT | -43.79 | -0.06 | PASS |
| N71 | 15 | 10 | CP-QPSK | M | Outer_Full | VH | NT | -13.48 | -0.02 | PASS |
| N71 | 15 | 10 | CP-16QAM | M | Outer_Full | VL | NT | -1.74 | 0.00 | PASS |
| N71 | 15 | 10 | CP-16QAM | M | Outer_Full | VN | NT | -4.54 | -0.01 | PASS |
| N71 | 15 | 10 | CP-16QAM | M | Outer_Full | VH | NT | -40.67 | -0.06 | PASS |
| N71 | 15 | 10 | CP-QPSK | H | Outer_Full | VL | NT | -0.85 | 0.00 | PASS |
| N71 | 15 | 10 | CP-QPSK | H | Outer_Full | VN | NT | 135.39 | 0.20 | PASS |

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|-----|----|----|----------|---|------------|----|----|---------|-------|------|
| N71 | 15 | 10 | CP-QPSK | H | Outer_Full | VH | NT | -58.31 | -0.08 | PASS |
| N71 | 15 | 10 | CP-16QAM | H | Outer_Full | VL | NT | 57.37 | 0.08 | PASS |
| N71 | 15 | 10 | CP-16QAM | H | Outer_Full | VN | NT | 24.17 | 0.03 | PASS |
| N71 | 15 | 10 | CP-16QAM | H | Outer_Full | VH | NT | -21.27 | -0.03 | PASS |
| N71 | 15 | 15 | CP-QPSK | L | Outer_Full | VL | NT | 1.41 | 0.00 | PASS |
| N71 | 15 | 15 | CP-QPSK | L | Outer_Full | VN | NT | -3.13 | 0.00 | PASS |
| N71 | 15 | 15 | CP-QPSK | L | Outer_Full | VH | NT | -125.87 | -0.19 | PASS |
| N71 | 15 | 15 | CP-16QAM | L | Outer_Full | VL | NT | -69.96 | -0.10 | PASS |
| N71 | 15 | 15 | CP-16QAM | L | Outer_Full | VN | NT | 61.76 | 0.09 | PASS |
| N71 | 15 | 15 | CP-16QAM | L | Outer_Full | VH | NT | -64.28 | -0.10 | PASS |
| N71 | 15 | 15 | CP-QPSK | M | Outer_Full | VL | NT | -2.68 | 0.00 | PASS |
| N71 | 15 | 15 | CP-QPSK | M | Outer_Full | VN | NT | 0.70 | 0.00 | PASS |
| N71 | 15 | 15 | CP-QPSK | M | Outer_Full | VH | NT | 76.43 | 0.11 | PASS |
| N71 | 15 | 15 | CP-16QAM | M | Outer_Full | VL | NT | -65.11 | -0.10 | PASS |
| N71 | 15 | 15 | CP-16QAM | M | Outer_Full | VN | NT | -2.92 | 0.00 | PASS |
| N71 | 15 | 15 | CP-16QAM | M | Outer_Full | VH | NT | -5.23 | -0.01 | PASS |
| N71 | 15 | 15 | CP-QPSK | H | Outer_Full | VL | NT | 2.21 | 0.00 | PASS |
| N71 | 15 | 15 | CP-QPSK | H | Outer_Full | VN | NT | 56.20 | 0.08 | PASS |
| N71 | 15 | 15 | CP-QPSK | H | Outer_Full | VH | NT | 40.58 | 0.06 | PASS |
| N71 | 15 | 15 | CP-16QAM | H | Outer_Full | VL | NT | 2.41 | 0.00 | PASS |
| N71 | 15 | 15 | CP-16QAM | H | Outer_Full | VN | NT | -1.03 | 0.00 | PASS |
| N71 | 15 | 15 | CP-16QAM | H | Outer_Full | VH | NT | 2.69 | 0.00 | PASS |
| N71 | 15 | 20 | CP-QPSK | L | Outer_Full | VL | NT | -0.52 | 0.00 | PASS |
| N71 | 15 | 20 | CP-QPSK | L | Outer_Full | VN | NT | -6.18 | -0.01 | PASS |
| N71 | 15 | 20 | CP-QPSK | L | Outer_Full | VH | NT | -5.42 | -0.01 | PASS |
| N71 | 15 | 20 | CP-16QAM | L | Outer_Full | VL | NT | -4.44 | -0.01 | PASS |
| N71 | 15 | 20 | CP-16QAM | L | Outer_Full | VN | NT | 26.49 | 0.04 | PASS |
| N71 | 15 | 20 | CP-16QAM | L | Outer_Full | VH | NT | -2.47 | 0.00 | PASS |
| N71 | 15 | 20 | CP-QPSK | M | Outer_Full | VL | NT | -7.84 | -0.01 | PASS |
| N71 | 15 | 20 | CP-QPSK | M | Outer_Full | VN | NT | -25.47 | -0.04 | PASS |
| N71 | 15 | 20 | CP-QPSK | M | Outer_Full | VH | NT | -3.06 | 0.00 | PASS |
| N71 | 15 | 20 | CP-16QAM | M | Outer_Full | VL | NT | 59.70 | 0.09 | PASS |
| N71 | 15 | 20 | CP-16QAM | M | Outer_Full | VN | NT | -5.55 | -0.01 | PASS |
| N71 | 15 | 20 | CP-16QAM | M | Outer_Full | VH | NT | -10.27 | -0.02 | PASS |
| N71 | 15 | 20 | CP-QPSK | H | Outer_Full | VL | NT | -91.98 | -0.13 | PASS |
| N71 | 15 | 20 | CP-QPSK | H | Outer_Full | VN | NT | -2.58 | 0.00 | PASS |
| N71 | 15 | 20 | CP-QPSK | H | Outer_Full | VH | NT | -4.82 | -0.01 | PASS |
| N71 | 15 | 20 | CP-16QAM | H | Outer_Full | VL | NT | -3.02 | 0.00 | PASS |
| N71 | 15 | 20 | CP-16QAM | H | Outer_Full | VN | NT | -0.44 | 0.00 | PASS |
| N71 | 15 | 20 | CP-16QAM | H | Outer_Full | VH | NT | 22.45 | 0.03 | PASS |

Frequency Error VS. Temperature

| Voltage | | | | | | | | | | |
|---------|-----|-----------|------------|---------|------------|---------|-------------|---------------|-----------------|---------|
| Band | SCS | Bandwidth | Modulation | Channel | RB Config | Voltage | Temperature | Deviation(Hz) | Deviation (ppm) | Verdict |
| N71 | 15 | 5 | CP-QPSK | L | Outer_Full | NV | -30 | -4.213027 | -0.006331 | PASS |
| N71 | 15 | 5 | CP-QPSK | L | Outer_Full | NV | -20 | 59.638569 | 0.089615 | PASS |
| N71 | 15 | 5 | CP-QPSK | L | Outer_Full | NV | -10 | -1.991208 | -0.002992 | PASS |
| N71 | 15 | 5 | CP-QPSK | L | Outer_Full | NV | 0 | -69.184731 | -0.103959 | PASS |
| N71 | 15 | 5 | CP-QPSK | L | Outer_Full | NV | 10 | -5.007133 | -0.007524 | PASS |
| N71 | 15 | 5 | CP-QPSK | L | Outer_Full | NV | 20 | -41.884949 | -0.062938 | PASS |
| N71 | 15 | 5 | CP-QPSK | L | Outer_Full | NV | 30 | -3.507732 | -0.005271 | PASS |
| N71 | 15 | 5 | CP-QPSK | L | Outer_Full | NV | 40 | 53.478260 | 0.080358 | PASS |
| N71 | 15 | 5 | CP-QPSK | L | Outer_Full | NV | 50 | -2.793275 | -0.004197 | PASS |
| N71 | 15 | 5 | CP-16QAM | L | Outer_Full | NV | -30 | -0.937177 | -0.001408 | PASS |
| N71 | 15 | 5 | CP-16QAM | L | Outer_Full | NV | -20 | -1.377344 | -0.002070 | PASS |
| N71 | 15 | 5 | CP-16QAM | L | Outer_Full | NV | -10 | -36.597912 | -0.054993 | PASS |
| N71 | 15 | 5 | CP-16QAM | L | Outer_Full | NV | 0 | -62.418667 | -0.093792 | PASS |
| N71 | 15 | 5 | CP-16QAM | L | Outer_Full | NV | 10 | -2.754277 | -0.004139 | PASS |
| N71 | 15 | 5 | CP-16QAM | L | Outer_Full | NV | 20 | -3.598490 | -0.005407 | PASS |
| N71 | 15 | 5 | CP-16QAM | L | Outer_Full | NV | 30 | -6.757233 | -0.010154 | PASS |
| N71 | 15 | 5 | CP-16QAM | L | Outer_Full | NV | 40 | 119.491417 | 0.179551 | PASS |
| N71 | 15 | 5 | CP-16QAM | L | Outer_Full | NV | 50 | -4.576453 | -0.006877 | PASS |
| N71 | 15 | 5 | CP-QPSK | M | Outer_Full | NV | -30 | -4.756202 | -0.006989 | PASS |
| N71 | 15 | 5 | CP-QPSK | M | Outer_Full | NV | -20 | -73.533134 | -0.108058 | PASS |
| N71 | 15 | 5 | CP-QPSK | M | Outer_Full | NV | -10 | -15.919897 | -0.023394 | PASS |
| N71 | 15 | 5 | CP-QPSK | M | Outer_Full | NV | 0 | -12.463992 | -0.018316 | PASS |
| N71 | 15 | 5 | CP-QPSK | M | Outer_Full | NV | 10 | -2.747338 | -0.004037 | PASS |
| N71 | 15 | 5 | CP-QPSK | M | Outer_Full | NV | 20 | 81.213799 | 0.119344 | PASS |
| N71 | 15 | 5 | CP-QPSK | M | Outer_Full | NV | 30 | -3.270971 | -0.004807 | PASS |
| N71 | 15 | 5 | CP-QPSK | M | Outer_Full | NV | 40 | -2.074750 | -0.003049 | PASS |
| N71 | 15 | 5 | CP-QPSK | M | Outer_Full | NV | 50 | 23.997669 | 0.035265 | PASS |
| N71 | 15 | 5 | CP-16QAM | M | Outer_Full | NV | -30 | 20.650255 | 0.030346 | PASS |
| N71 | 15 | 5 | CP-16QAM | M | Outer_Full | NV | -20 | -1.237639 | -0.001819 | PASS |
| N71 | 15 | 5 | CP-16QAM | M | Outer_Full | NV | -10 | -77.933487 | -0.114524 | PASS |
| N71 | 15 | 5 | CP-16QAM | M | Outer_Full | NV | 0 | -43.382282 | -0.063751 | PASS |
| N71 | 15 | 5 | CP-16QAM | M | Outer_Full | NV | 10 | -1.854582 | -0.002725 | PASS |
| N71 | 15 | 5 | CP-16QAM | M | Outer_Full | NV | 20 | -6.608582 | -0.009711 | PASS |
| N71 | 15 | 5 | CP-16QAM | M | Outer_Full | NV | 30 | -5.702901 | -0.008380 | PASS |
| N71 | 15 | 5 | CP-16QAM | M | Outer_Full | NV | 40 | 85.491966 | 0.125631 | PASS |
| N71 | 15 | 5 | CP-16QAM | M | Outer_Full | NV | 50 | -22.031271 | -0.032375 | PASS |

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|-----|----|----|----------|---|------------|----|-----|-------------|-----------|------|
| N71 | 15 | 5 | CP-QPSK | H | Outer_Full | NV | -30 | -61.124264 | -0.087885 | PASS |
| N71 | 15 | 5 | CP-QPSK | H | Outer_Full | NV | -20 | -4.498829 | -0.006468 | PASS |
| N71 | 15 | 5 | CP-QPSK | H | Outer_Full | NV | -10 | 14.411885 | 0.020722 | PASS |
| N71 | 15 | 5 | CP-QPSK | H | Outer_Full | NV | 0 | -104.774559 | -0.150646 | PASS |
| N71 | 15 | 5 | CP-QPSK | H | Outer_Full | NV | 10 | -3.127986 | -0.004497 | PASS |
| N71 | 15 | 5 | CP-QPSK | H | Outer_Full | NV | 20 | -4.178257 | -0.006008 | PASS |
| N71 | 15 | 5 | CP-QPSK | H | Outer_Full | NV | 30 | -83.748322 | -0.120415 | PASS |
| N71 | 15 | 5 | CP-QPSK | H | Outer_Full | NV | 40 | -17.243540 | -0.024793 | PASS |
| N71 | 15 | 5 | CP-QPSK | H | Outer_Full | NV | 50 | -100.176529 | -0.144035 | PASS |
| N71 | 15 | 5 | CP-16QAM | H | Outer_Full | NV | -30 | -6.722607 | -0.009666 | PASS |
| N71 | 15 | 5 | CP-16QAM | H | Outer_Full | NV | -20 | -3.709792 | -0.005334 | PASS |
| N71 | 15 | 5 | CP-16QAM | H | Outer_Full | NV | -10 | -3.576215 | -0.005142 | PASS |
| N71 | 15 | 5 | CP-16QAM | H | Outer_Full | NV | 0 | -43.502140 | -0.062548 | PASS |
| N71 | 15 | 5 | CP-16QAM | H | Outer_Full | NV | 10 | -0.430541 | -0.000619 | PASS |
| N71 | 15 | 5 | CP-16QAM | H | Outer_Full | NV | 20 | -3.796462 | -0.005459 | PASS |
| N71 | 15 | 5 | CP-16QAM | H | Outer_Full | NV | 30 | -6.553236 | -0.009422 | PASS |
| N71 | 15 | 5 | CP-16QAM | H | Outer_Full | NV | 40 | -31.867685 | -0.045820 | PASS |
| N71 | 15 | 5 | CP-16QAM | H | Outer_Full | NV | 50 | -34.757942 | -0.049975 | PASS |
| N71 | 15 | 10 | CP-QPSK | L | Outer_Full | NV | -30 | -31.297827 | -0.046853 | PASS |
| N71 | 15 | 10 | CP-QPSK | L | Outer_Full | NV | -20 | 4.572490 | 0.006845 | PASS |
| N71 | 15 | 10 | CP-QPSK | L | Outer_Full | NV | -10 | -39.625649 | -0.059320 | PASS |
| N71 | 15 | 10 | CP-QPSK | L | Outer_Full | NV | 0 | -17.398489 | -0.026046 | PASS |
| N71 | 15 | 10 | CP-QPSK | L | Outer_Full | NV | 10 | 4.764792 | 0.007133 | PASS |
| N71 | 15 | 10 | CP-QPSK | L | Outer_Full | NV | 20 | 4.087311 | 0.006119 | PASS |
| N71 | 15 | 10 | CP-QPSK | L | Outer_Full | NV | 30 | 2.626353 | 0.003932 | PASS |
| N71 | 15 | 10 | CP-QPSK | L | Outer_Full | NV | 40 | -4.301977 | -0.006440 | PASS |
| N71 | 15 | 10 | CP-QPSK | L | Outer_Full | NV | 50 | 4.973263 | 0.007445 | PASS |
| N71 | 15 | 10 | CP-16QAM | L | Outer_Full | NV | -30 | -168.670319 | -0.252500 | PASS |
| N71 | 15 | 10 | CP-16QAM | L | Outer_Full | NV | -20 | -20.659790 | -0.030928 | PASS |
| N71 | 15 | 10 | CP-16QAM | L | Outer_Full | NV | -10 | 129.828980 | 0.194355 | PASS |
| N71 | 15 | 10 | CP-16QAM | L | Outer_Full | NV | 0 | 3.082125 | 0.004614 | PASS |
| N71 | 15 | 10 | CP-16QAM | L | Outer_Full | NV | 10 | 3.297698 | 0.004937 | PASS |
| N71 | 15 | 10 | CP-16QAM | L | Outer_Full | NV | 20 | -82.482155 | -0.123476 | PASS |
| N71 | 15 | 10 | CP-16QAM | L | Outer_Full | NV | 30 | 61.212715 | 0.091636 | PASS |
| N71 | 15 | 10 | CP-16QAM | L | Outer_Full | NV | 40 | 13.822954 | 0.020693 | PASS |
| N71 | 15 | 10 | CP-16QAM | L | Outer_Full | NV | 50 | 3.474317 | 0.005201 | PASS |
| N71 | 15 | 10 | CP-QPSK | M | Outer_Full | NV | -30 | -5.380653 | -0.007907 | PASS |
| N71 | 15 | 10 | CP-QPSK | M | Outer_Full | NV | -20 | -77.522102 | -0.113919 | PASS |
| N71 | 15 | 10 | CP-QPSK | M | Outer_Full | NV | -10 | 35.326847 | 0.051913 | PASS |
| N71 | 15 | 10 | CP-QPSK | M | Outer_Full | NV | 0 | -2.273009 | -0.003340 | PASS |
| N71 | 15 | 10 | CP-QPSK | M | Outer_Full | NV | 10 | -4.159346 | -0.006112 | PASS |

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|-----|----|----|----------|---|------------|----|-----|-------------|-----------|------|
| N71 | 15 | 10 | CP-QPSK | M | Outer_Full | NV | 20 | -26.002722 | -0.038211 | PASS |
| N71 | 15 | 10 | CP-QPSK | M | Outer_Full | NV | 30 | -3.255814 | -0.004784 | PASS |
| N71 | 15 | 10 | CP-QPSK | M | Outer_Full | NV | 40 | -58.705833 | -0.086269 | PASS |
| N71 | 15 | 10 | CP-QPSK | M | Outer_Full | NV | 50 | -4.664340 | -0.006854 | PASS |
| N71 | 15 | 10 | CP-16QAM | M | Outer_Full | NV | -30 | -1.208395 | -0.001776 | PASS |
| N71 | 15 | 10 | CP-16QAM | M | Outer_Full | NV | -20 | -53.166264 | -0.078128 | PASS |
| N71 | 15 | 10 | CP-16QAM | M | Outer_Full | NV | -10 | 27.334440 | 0.040168 | PASS |
| N71 | 15 | 10 | CP-16QAM | M | Outer_Full | NV | 0 | -5.627553 | -0.008270 | PASS |
| N71 | 15 | 10 | CP-16QAM | M | Outer_Full | NV | 10 | 27.790545 | 0.040838 | PASS |
| N71 | 15 | 10 | CP-16QAM | M | Outer_Full | NV | 20 | -3.490832 | -0.005130 | PASS |
| N71 | 15 | 10 | CP-16QAM | M | Outer_Full | NV | 30 | -141.066956 | -0.207299 | PASS |
| N71 | 15 | 10 | CP-16QAM | M | Outer_Full | NV | 40 | -4.873370 | -0.007161 | PASS |
| N71 | 15 | 10 | CP-16QAM | M | Outer_Full | NV | 50 | -3.856546 | -0.005667 | PASS |
| N71 | 15 | 10 | CP-QPSK | H | Outer_Full | NV | -30 | -2.389286 | -0.003448 | PASS |
| N71 | 15 | 10 | CP-QPSK | H | Outer_Full | NV | -20 | 116.060837 | 0.167476 | PASS |
| N71 | 15 | 10 | CP-QPSK | H | Outer_Full | NV | -10 | -27.792410 | -0.040104 | PASS |
| N71 | 15 | 10 | CP-QPSK | H | Outer_Full | NV | 0 | -1.832936 | -0.002645 | PASS |
| N71 | 15 | 10 | CP-QPSK | H | Outer_Full | NV | 10 | 68.531723 | 0.098891 | PASS |
| N71 | 15 | 10 | CP-QPSK | H | Outer_Full | NV | 20 | -4.330734 | -0.006249 | PASS |
| N71 | 15 | 10 | CP-QPSK | H | Outer_Full | NV | 30 | -22.721937 | -0.032788 | PASS |
| N71 | 15 | 10 | CP-QPSK | H | Outer_Full | NV | 40 | 0.279649 | 0.000404 | PASS |
| N71 | 15 | 10 | CP-QPSK | H | Outer_Full | NV | 50 | -1.581138 | -0.002282 | PASS |
| N71 | 15 | 10 | CP-16QAM | H | Outer_Full | NV | -30 | 3.860709 | 0.005571 | PASS |
| N71 | 15 | 10 | CP-16QAM | H | Outer_Full | NV | -20 | -0.293411 | -0.000423 | PASS |
| N71 | 15 | 10 | CP-16QAM | H | Outer_Full | NV | -10 | 1.798699 | 0.002596 | PASS |
| N71 | 15 | 10 | CP-16QAM | H | Outer_Full | NV | 0 | -42.802830 | -0.061765 | PASS |
| N71 | 15 | 10 | CP-16QAM | H | Outer_Full | NV | 10 | 3.168796 | 0.004573 | PASS |
| N71 | 15 | 10 | CP-16QAM | H | Outer_Full | NV | 20 | 0.189634 | 0.000274 | PASS |
| N71 | 15 | 10 | CP-16QAM | H | Outer_Full | NV | 30 | -1.125513 | -0.001624 | PASS |
| N71 | 15 | 10 | CP-16QAM | H | Outer_Full | NV | 40 | -16.877403 | -0.024354 | PASS |
| N71 | 15 | 10 | CP-16QAM | H | Outer_Full | NV | 50 | 0.502586 | 0.000725 | PASS |
| N71 | 15 | 15 | CP-QPSK | L | Outer_Full | NV | -30 | 100.165245 | 0.149389 | PASS |
| N71 | 15 | 15 | CP-QPSK | L | Outer_Full | NV | -20 | -0.693331 | -0.001034 | PASS |
| N71 | 15 | 15 | CP-QPSK | L | Outer_Full | NV | -10 | 58.943020 | 0.087909 | PASS |
| N71 | 15 | 15 | CP-QPSK | L | Outer_Full | NV | 0 | -21.584835 | -0.032192 | PASS |
| N71 | 15 | 15 | CP-QPSK | L | Outer_Full | NV | 10 | -5.955452 | -0.008882 | PASS |
| N71 | 15 | 15 | CP-QPSK | L | Outer_Full | NV | 20 | 3.581574 | 0.005342 | PASS |
| N71 | 15 | 15 | CP-QPSK | L | Outer_Full | NV | 30 | -40.088459 | -0.059789 | PASS |
| N71 | 15 | 15 | CP-QPSK | L | Outer_Full | NV | 40 | -0.365028 | -0.000544 | PASS |
| N71 | 15 | 15 | CP-QPSK | L | Outer_Full | NV | 50 | 2.136914 | 0.003187 | PASS |
| N71 | 15 | 15 | CP-16QAM | L | Outer_Full | NV | -30 | 0.272389 | 0.000406 | PASS |

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|-----|----|----|----------|---|------------|----|-----|-------------|-----------|------|
| N71 | 15 | 15 | CP-16QAM | L | Outer_Full | NV | -20 | 0.885996 | 0.001321 | PASS |
| N71 | 15 | 15 | CP-16QAM | L | Outer_Full | NV | -10 | -1.949447 | -0.002907 | PASS |
| N71 | 15 | 15 | CP-16QAM | L | Outer_Full | NV | 0 | 84.928314 | 0.126664 | PASS |
| N71 | 15 | 15 | CP-16QAM | L | Outer_Full | NV | 10 | -0.790301 | -0.001179 | PASS |
| N71 | 15 | 15 | CP-16QAM | L | Outer_Full | NV | 20 | 0.194095 | 0.000289 | PASS |
| N71 | 15 | 15 | CP-16QAM | L | Outer_Full | NV | 30 | 1.145771 | 0.001709 | PASS |
| N71 | 15 | 15 | CP-16QAM | L | Outer_Full | NV | 40 | -0.024370 | -0.000036 | PASS |
| N71 | 15 | 15 | CP-16QAM | L | Outer_Full | NV | 50 | 6.800392 | 0.010142 | PASS |
| N71 | 15 | 15 | CP-QPSK | M | Outer_Full | NV | -30 | -3.372678 | -0.004956 | PASS |
| N71 | 15 | 15 | CP-QPSK | M | Outer_Full | NV | -20 | -4.181453 | -0.006145 | PASS |
| N71 | 15 | 15 | CP-QPSK | M | Outer_Full | NV | -10 | -1.696725 | -0.002493 | PASS |
| N71 | 15 | 15 | CP-QPSK | M | Outer_Full | NV | 0 | -3.477671 | -0.005110 | PASS |
| N71 | 15 | 15 | CP-QPSK | M | Outer_Full | NV | 10 | -1.990090 | -0.002924 | PASS |
| N71 | 15 | 15 | CP-QPSK | M | Outer_Full | NV | 20 | -40.355297 | -0.059302 | PASS |
| N71 | 15 | 15 | CP-QPSK | M | Outer_Full | NV | 30 | -0.162268 | -0.000238 | PASS |
| N71 | 15 | 15 | CP-QPSK | M | Outer_Full | NV | 40 | -0.115850 | -0.000170 | PASS |
| N71 | 15 | 15 | CP-QPSK | M | Outer_Full | NV | 50 | -3.098196 | -0.004553 | PASS |
| N71 | 15 | 15 | CP-16QAM | M | Outer_Full | NV | -30 | -19.804062 | -0.029102 | PASS |
| N71 | 15 | 15 | CP-16QAM | M | Outer_Full | NV | -20 | 45.249744 | 0.066495 | PASS |
| N71 | 15 | 15 | CP-16QAM | M | Outer_Full | NV | -10 | -31.500725 | -0.046291 | PASS |
| N71 | 15 | 15 | CP-16QAM | M | Outer_Full | NV | 0 | -139.627853 | -0.205184 | PASS |
| N71 | 15 | 15 | CP-16QAM | M | Outer_Full | NV | 10 | 48.018623 | 0.070564 | PASS |
| N71 | 15 | 15 | CP-16QAM | M | Outer_Full | NV | 20 | 33.645706 | 0.049443 | PASS |
| N71 | 15 | 15 | CP-16QAM | M | Outer_Full | NV | 30 | -5.093190 | -0.007484 | PASS |
| N71 | 15 | 15 | CP-16QAM | M | Outer_Full | NV | 40 | -3.362282 | -0.004941 | PASS |
| N71 | 15 | 15 | CP-16QAM | M | Outer_Full | NV | 50 | -4.640857 | -0.006820 | PASS |
| N71 | 15 | 15 | CP-QPSK | H | Outer_Full | NV | -30 | -64.757896 | -0.093784 | PASS |
| N71 | 15 | 15 | CP-QPSK | H | Outer_Full | NV | -20 | -1.860484 | -0.002694 | PASS |
| N71 | 15 | 15 | CP-QPSK | H | Outer_Full | NV | -10 | -1.674124 | -0.002425 | PASS |
| N71 | 15 | 15 | CP-QPSK | H | Outer_Full | NV | 0 | -83.414665 | -0.120803 | PASS |
| N71 | 15 | 15 | CP-QPSK | H | Outer_Full | NV | 10 | 2.107048 | 0.003051 | PASS |
| N71 | 15 | 15 | CP-QPSK | H | Outer_Full | NV | 20 | 1.318953 | 0.001910 | PASS |
| N71 | 15 | 15 | CP-QPSK | H | Outer_Full | NV | 30 | 4.773245 | 0.006913 | PASS |
| N71 | 15 | 15 | CP-QPSK | H | Outer_Full | NV | 40 | -128.857742 | -0.186615 | PASS |
| N71 | 15 | 15 | CP-QPSK | H | Outer_Full | NV | 50 | -1.443127 | -0.002090 | PASS |
| N71 | 15 | 15 | CP-16QAM | H | Outer_Full | NV | -30 | 0.063704 | 0.000092 | PASS |
| N71 | 15 | 15 | CP-16QAM | H | Outer_Full | NV | -20 | -21.379101 | -0.030962 | PASS |
| N71 | 15 | 15 | CP-16QAM | H | Outer_Full | NV | -10 | -72.979454 | -0.105691 | PASS |
| N71 | 15 | 15 | CP-16QAM | H | Outer_Full | NV | 0 | 2.606429 | 0.003775 | PASS |
| N71 | 15 | 15 | CP-16QAM | H | Outer_Full | NV | 10 | 0.232091 | 0.000336 | PASS |
| N71 | 15 | 15 | CP-16QAM | H | Outer_Full | NV | 20 | 4.974763 | 0.007205 | PASS |

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|-----|----|----|----------|---|------------|----|-----|-------------|-----------|------|
| N71 | 15 | 15 | CP-16QAM | H | Outer_Full | NV | 30 | 7.515327 | 0.010884 | PASS |
| N71 | 15 | 15 | CP-16QAM | H | Outer_Full | NV | 40 | 0.429369 | 0.000622 | PASS |
| N71 | 15 | 15 | CP-16QAM | H | Outer_Full | NV | 50 | 5.468750 | 0.007920 | PASS |
| N71 | 15 | 20 | CP-QPSK | L | Outer_Full | NV | -30 | -5.536307 | -0.008226 | PASS |
| N71 | 15 | 20 | CP-QPSK | L | Outer_Full | NV | -20 | -3.795595 | -0.005640 | PASS |
| N71 | 15 | 20 | CP-QPSK | L | Outer_Full | NV | -10 | 21.655901 | 0.032178 | PASS |
| N71 | 15 | 20 | CP-QPSK | L | Outer_Full | NV | 0 | -5.110602 | -0.007594 | PASS |
| N71 | 15 | 20 | CP-QPSK | L | Outer_Full | NV | 10 | 30.330517 | 0.045068 | PASS |
| N71 | 15 | 20 | CP-QPSK | L | Outer_Full | NV | 20 | -2.490605 | -0.003701 | PASS |
| N71 | 15 | 20 | CP-QPSK | L | Outer_Full | NV | 30 | -3.897612 | -0.005791 | PASS |
| N71 | 15 | 20 | CP-QPSK | L | Outer_Full | NV | 40 | -4.700954 | -0.006985 | PASS |
| N71 | 15 | 20 | CP-QPSK | L | Outer_Full | NV | 50 | -26.909340 | -0.039984 | PASS |
| N71 | 15 | 20 | CP-16QAM | L | Outer_Full | NV | -30 | -75.303345 | -0.111892 | PASS |
| N71 | 15 | 20 | CP-16QAM | L | Outer_Full | NV | -20 | -2.390132 | -0.003551 | PASS |
| N71 | 15 | 20 | CP-16QAM | L | Outer_Full | NV | -10 | -2.129988 | -0.003165 | PASS |
| N71 | 15 | 20 | CP-16QAM | L | Outer_Full | NV | 0 | -2.387906 | -0.003548 | PASS |
| N71 | 15 | 20 | CP-16QAM | L | Outer_Full | NV | 10 | 82.134987 | 0.122043 | PASS |
| N71 | 15 | 20 | CP-16QAM | L | Outer_Full | NV | 20 | 10.588698 | 0.015734 | PASS |
| N71 | 15 | 20 | CP-16QAM | L | Outer_Full | NV | 30 | -67.710777 | -0.100610 | PASS |
| N71 | 15 | 20 | CP-16QAM | L | Outer_Full | NV | 40 | -2.385008 | -0.003544 | PASS |
| N71 | 15 | 20 | CP-16QAM | L | Outer_Full | NV | 50 | 25.987741 | 0.038615 | PASS |
| N71 | 15 | 20 | CP-QPSK | M | Outer_Full | NV | -30 | 89.136841 | 0.130987 | PASS |
| N71 | 15 | 20 | CP-QPSK | M | Outer_Full | NV | -20 | -5.475523 | -0.008046 | PASS |
| N71 | 15 | 20 | CP-QPSK | M | Outer_Full | NV | -10 | 60.386642 | 0.088739 | PASS |
| N71 | 15 | 20 | CP-QPSK | M | Outer_Full | NV | 0 | 0.439329 | 0.000646 | PASS |
| N71 | 15 | 20 | CP-QPSK | M | Outer_Full | NV | 10 | -6.971704 | -0.010245 | PASS |
| N71 | 15 | 20 | CP-QPSK | M | Outer_Full | NV | 20 | -126.605408 | -0.186048 | PASS |
| N71 | 15 | 20 | CP-QPSK | M | Outer_Full | NV | 30 | 135.493866 | 0.199109 | PASS |
| N71 | 15 | 20 | CP-QPSK | M | Outer_Full | NV | 40 | -43.164837 | -0.063431 | PASS |
| N71 | 15 | 20 | CP-QPSK | M | Outer_Full | NV | 50 | -4.986829 | -0.007328 | PASS |
| N71 | 15 | 20 | CP-16QAM | M | Outer_Full | NV | -30 | -4.181913 | -0.006145 | PASS |
| N71 | 15 | 20 | CP-16QAM | M | Outer_Full | NV | -20 | -79.290253 | -0.116518 | PASS |
| N71 | 15 | 20 | CP-16QAM | M | Outer_Full | NV | -10 | -7.836317 | -0.011516 | PASS |
| N71 | 15 | 20 | CP-16QAM | M | Outer_Full | NV | 0 | 16.593498 | 0.024384 | PASS |
| N71 | 15 | 20 | CP-16QAM | M | Outer_Full | NV | 10 | -5.094243 | -0.007486 | PASS |
| N71 | 15 | 20 | CP-16QAM | M | Outer_Full | NV | 20 | 42.816811 | 0.062920 | PASS |
| N71 | 15 | 20 | CP-16QAM | M | Outer_Full | NV | 30 | 0.534089 | 0.000785 | PASS |
| N71 | 15 | 20 | CP-16QAM | M | Outer_Full | NV | 40 | 44.516983 | 0.065418 | PASS |
| N71 | 15 | 20 | CP-16QAM | M | Outer_Full | NV | 50 | 92.142525 | 0.135404 | PASS |
| N71 | 15 | 20 | CP-QPSK | H | Outer_Full | NV | -30 | -8.220923 | -0.011949 | PASS |
| N71 | 15 | 20 | CP-QPSK | H | Outer_Full | NV | -20 | 70.216896 | 0.102059 | PASS |

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|-----|----|----|----------|---|------------|----|-----|-------------|-----------|------|
| N71 | 15 | 20 | CP-QPSK | H | Outer_Full | NV | -10 | 16.752300 | 0.024349 | PASS |
| N71 | 15 | 20 | CP-QPSK | H | Outer_Full | NV | 0 | 3.446533 | 0.005009 | PASS |
| N71 | 15 | 20 | CP-QPSK | H | Outer_Full | NV | 10 | -1.971666 | -0.002866 | PASS |
| N71 | 15 | 20 | CP-QPSK | H | Outer_Full | NV | 20 | -23.610893 | -0.034318 | PASS |
| N71 | 15 | 20 | CP-QPSK | H | Outer_Full | NV | 30 | -70.318977 | -0.102208 | PASS |
| N71 | 15 | 20 | CP-QPSK | H | Outer_Full | NV | 40 | -6.522721 | -0.009481 | PASS |
| N71 | 15 | 20 | CP-QPSK | H | Outer_Full | NV | 50 | -1.095019 | -0.001592 | PASS |
| N71 | 15 | 20 | CP-16QAM | H | Outer_Full | NV | -30 | 21.667297 | 0.031493 | PASS |
| N71 | 15 | 20 | CP-16QAM | H | Outer_Full | NV | -20 | -6.903289 | -0.010034 | PASS |
| N71 | 15 | 20 | CP-16QAM | H | Outer_Full | NV | -10 | -13.972242 | -0.020308 | PASS |
| N71 | 15 | 20 | CP-16QAM | H | Outer_Full | NV | 0 | -9.739932 | -0.014157 | PASS |
| N71 | 15 | 20 | CP-16QAM | H | Outer_Full | NV | 10 | -109.285835 | -0.158846 | PASS |
| N71 | 15 | 20 | CP-16QAM | H | Outer_Full | NV | 20 | 7.535431 | 0.010953 | PASS |
| N71 | 15 | 20 | CP-16QAM | H | Outer_Full | NV | 30 | 12.502345 | 0.018172 | PASS |
| N71 | 15 | 20 | CP-16QAM | H | Outer_Full | NV | 40 | -4.966243 | -0.007218 | PASS |
| N71 | 15 | 20 | CP-16QAM | H | Outer_Full | NV | 50 | -3.859884 | -0.005610 | PASS |