













Appendix F: Frequency Stability for NSA

Test Result

Frequency Error VS. Voltage

| Voltage | | | | | | | | | | |
|------------|-----|-----------|------------|---------|------------|---------|-------------|---------------|-----------------|---------|
| Band | SCS | Bandwidth | Modulation | Channel | RB Config | Voltage | Temperature | Deviation(Hz) | Deviation (ppm) | Verdict |
| DC_5A_n66A | 15 | 5+5 | DFT-QPSK | M+L | Outer_Full | VL | NT | 1.20 | 0.00 | PASS |
| DC_5A_n66A | 15 | 5+5 | DFT-QPSK | M+L | Outer_Full | VN | NT | -1.56 | 0.00 | PASS |
| DC_5A_n66A | 15 | 5+5 | DFT-QPSK | M+L | Outer_Full | VH | NT | -2.48 | 0.00 | PASS |
| DC_5A_n66A | 15 | 5+5 | DFT-16QAM | M+L | Outer_Full | VL | NT | -0.14 | 0.00 | PASS |
| DC_5A_n66A | 15 | 5+5 | DFT-16QAM | M+L | Outer_Full | VN | NT | -2.54 | 0.00 | PASS |
| DC_5A_n66A | 15 | 5+5 | DFT-16QAM | M+L | Outer_Full | VH | NT | 1.04 | 0.00 | PASS |
| DC_5A_n66A | 15 | 5+5 | DFT-QPSK | M+M | Outer_Full | VL | NT | -1.52 | 0.00 | PASS |
| DC_5A_n66A | 15 | 5+5 | DFT-QPSK | M+M | Outer_Full | VN | NT | -0.78 | 0.00 | PASS |
| DC_5A_n66A | 15 | 5+5 | DFT-QPSK | M+M | Outer_Full | VH | NT | -1.45 | 0.00 | PASS |
| DC_5A_n66A | 15 | 5+5 | DFT-16QAM | M+M | Outer_Full | VL | NT | -2.85 | 0.00 | PASS |
| DC_5A_n66A | 15 | 5+5 | DFT-16QAM | M+M | Outer_Full | VN | NT | -2.18 | 0.00 | PASS |
| DC_5A_n66A | 15 | 5+5 | DFT-16QAM | M+M | Outer_Full | VH | NT | -0.15 | 0.00 | PASS |
| DC_5A_n66A | 15 | 5+5 | DFT-QPSK | M+H | Outer_Full | VL | NT | -0.43 | 0.00 | PASS |
| DC_5A_n66A | 15 | 5+5 | DFT-QPSK | M+H | Outer_Full | VN | NT | -1.40 | 0.00 | PASS |
| DC_5A_n66A | 15 | 5+5 | DFT-QPSK | M+H | Outer_Full | VH | NT | -1.60 | 0.00 | PASS |
| DC_5A_n66A | 15 | 5+5 | DFT-16QAM | M+H | Outer_Full | VL | NT | -0.05 | 0.00 | PASS |
| DC_5A_n66A | 15 | 5+5 | DFT-16QAM | M+H | Outer_Full | VN | NT | -0.08 | 0.00 | PASS |

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|------------|----|------|-----------|-----|------------|----|----|-------|------|------|
| DC_5A_n66A | 15 | 5+5 | DFT-16QAM | M+H | Outer_Full | VH | NT | -0.59 | 0.00 | PASS |
| DC_5A_n66A | 15 | 5+10 | DFT-QPSK | M+L | Outer_Full | VL | NT | -2.91 | 0.00 | PASS |
| DC_5A_n66A | 15 | 5+10 | DFT-QPSK | M+L | Outer_Full | VN | NT | -3.23 | 0.00 | PASS |
| DC_5A_n66A | 15 | 5+10 | DFT-QPSK | M+L | Outer_Full | VH | NT | -1.24 | 0.00 | PASS |
| DC_5A_n66A | 15 | 5+10 | DFT-16QAM | M+L | Outer_Full | VL | NT | -1.87 | 0.00 | PASS |
| DC_5A_n66A | 15 | 5+10 | DFT-16QAM | M+L | Outer_Full | VN | NT | -1.84 | 0.00 | PASS |
| DC_5A_n66A | 15 | 5+10 | DFT-16QAM | M+L | Outer_Full | VH | NT | -1.78 | 0.00 | PASS |
| DC_5A_n66A | 15 | 5+10 | DFT-QPSK | M+M | Outer_Full | VL | NT | 0.15 | 0.00 | PASS |
| DC_5A_n66A | 15 | 5+10 | DFT-QPSK | M+M | Outer_Full | VN | NT | 0.39 | 0.00 | PASS |
| DC_5A_n66A | 15 | 5+10 | DFT-QPSK | M+M | Outer_Full | VH | NT | 0.19 | 0.00 | PASS |
| DC_5A_n66A | 15 | 5+10 | DFT-16QAM | M+M | Outer_Full | VL | NT | -2.40 | 0.00 | PASS |
| DC_5A_n66A | 15 | 5+10 | DFT-16QAM | M+M | Outer_Full | VN | NT | -3.96 | 0.00 | PASS |
| DC_5A_n66A | 15 | 5+10 | DFT-16QAM | M+M | Outer_Full | VH | NT | -4.66 | 0.00 | PASS |
| DC_5A_n66A | 15 | 5+10 | DFT-QPSK | M+H | Outer_Full | VL | NT | -0.56 | 0.00 | PASS |
| DC_5A_n66A | 15 | 5+10 | DFT-QPSK | M+H | Outer_Full | VN | NT | -0.20 | 0.00 | PASS |
| DC_5A_n66A | 15 | 5+10 | DFT-QPSK | M+H | Outer_Full | VH | NT | -2.37 | 0.00 | PASS |
| DC_5A_n66A | 15 | 5+10 | DFT-16QAM | M+H | Outer_Full | VL | NT | -2.42 | 0.00 | PASS |
| DC_5A_n66A | 15 | 5+10 | DFT-16QAM | M+H | Outer_Full | VN | NT | -3.04 | 0.00 | PASS |
| DC_5A_n66A | 15 | 5+10 | DFT-16QAM | M+H | Outer_Full | VH | NT | -1.88 | 0.00 | PASS |
| DC_5A_n66A | 15 | 5+15 | DFT-QPSK | M+L | Outer_Full | VL | NT | -0.43 | 0.00 | PASS |
| DC_5A_n66A | 15 | 5+15 | DFT-QPSK | M+L | Outer_Full | VN | NT | -2.73 | 0.00 | PASS |

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|------------|----|------|-----------|-----|------------|----|----|-------|------|------|
| DC_5A_n66A | 15 | 5+15 | DFT-QPSK | M+L | Outer_Full | VH | NT | -2.56 | 0.00 | PASS |
| DC_5A_n66A | 15 | 5+15 | DFT-16QAM | M+L | Outer_Full | VL | NT | -2.25 | 0.00 | PASS |
| DC_5A_n66A | 15 | 5+15 | DFT-16QAM | M+L | Outer_Full | VN | NT | -3.09 | 0.00 | PASS |
| DC_5A_n66A | 15 | 5+15 | DFT-16QAM | M+L | Outer_Full | VH | NT | -1.29 | 0.00 | PASS |
| DC_5A_n66A | 15 | 5+15 | DFT-QPSK | M+M | Outer_Full | VL | NT | -3.05 | 0.00 | PASS |
| DC_5A_n66A | 15 | 5+15 | DFT-QPSK | M+M | Outer_Full | VN | NT | -3.95 | 0.00 | PASS |
| DC_5A_n66A | 15 | 5+15 | DFT-QPSK | M+M | Outer_Full | VH | NT | -4.17 | 0.00 | PASS |
| DC_5A_n66A | 15 | 5+15 | DFT-16QAM | M+M | Outer_Full | VL | NT | 1.23 | 0.00 | PASS |
| DC_5A_n66A | 15 | 5+15 | DFT-16QAM | M+M | Outer_Full | VN | NT | -1.33 | 0.00 | PASS |
| DC_5A_n66A | 15 | 5+15 | DFT-16QAM | M+M | Outer_Full | VH | NT | -0.32 | 0.00 | PASS |
| DC_5A_n66A | 15 | 5+15 | DFT-QPSK | M+H | Outer_Full | VL | NT | -1.15 | 0.00 | PASS |
| DC_5A_n66A | 15 | 5+15 | DFT-QPSK | M+H | Outer_Full | VN | NT | -1.33 | 0.00 | PASS |
| DC_5A_n66A | 15 | 5+15 | DFT-QPSK | M+H | Outer_Full | VH | NT | -1.91 | 0.00 | PASS |
| DC_5A_n66A | 15 | 5+15 | DFT-16QAM | M+H | Outer_Full | VL | NT | -3.46 | 0.00 | PASS |
| DC_5A_n66A | 15 | 5+15 | DFT-16QAM | M+H | Outer_Full | VN | NT | -5.16 | 0.00 | PASS |
| DC_5A_n66A | 15 | 5+15 | DFT-16QAM | M+H | Outer_Full | VH | NT | -4.20 | 0.00 | PASS |
| DC_5A_n66A | 15 | 5+20 | DFT-QPSK | M+L | Outer_Full | VL | NT | -1.74 | 0.00 | PASS |
| DC_5A_n66A | 15 | 5+20 | DFT-QPSK | M+L | Outer_Full | VN | NT | -1.24 | 0.00 | PASS |
| DC_5A_n66A | 15 | 5+20 | DFT-QPSK | M+L | Outer_Full | VH | NT | -4.39 | 0.00 | PASS |
| DC_5A_n66A | 15 | 5+20 | DFT-16QAM | M+L | Outer_Full | VL | NT | -3.79 | 0.00 | PASS |
| DC_5A_n66A | 15 | 5+20 | DFT-16QAM | M+L | Outer_Full | VN | NT | -3.25 | 0.00 | PASS |

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|------------|----|------|-----------|-----|------------|----|----|-------|------|------|
| DC_5A_n66A | 15 | 5+20 | DFT-16QAM | M+L | Outer_Full | VH | NT | -4.25 | 0.00 | PASS |
| DC_5A_n66A | 15 | 5+20 | DFT-QPSK | M+M | Outer_Full | VL | NT | -3.63 | 0.00 | PASS |
| DC_5A_n66A | 15 | 5+20 | DFT-QPSK | M+M | Outer_Full | VN | NT | -4.92 | 0.00 | PASS |
| DC_5A_n66A | 15 | 5+20 | DFT-QPSK | M+M | Outer_Full | VH | NT | -3.39 | 0.00 | PASS |
| DC_5A_n66A | 15 | 5+20 | DFT-16QAM | M+M | Outer_Full | VL | NT | -1.37 | 0.00 | PASS |
| DC_5A_n66A | 15 | 5+20 | DFT-16QAM | M+M | Outer_Full | VN | NT | -3.32 | 0.00 | PASS |
| DC_5A_n66A | 15 | 5+20 | DFT-16QAM | M+M | Outer_Full | VH | NT | -3.64 | 0.00 | PASS |
| DC_5A_n66A | 15 | 5+20 | DFT-QPSK | M+H | Outer_Full | VL | NT | -4.61 | 0.00 | PASS |
| DC_5A_n66A | 15 | 5+20 | DFT-QPSK | M+H | Outer_Full | VN | NT | -3.35 | 0.00 | PASS |
| DC_5A_n66A | 15 | 5+20 | DFT-QPSK | M+H | Outer_Full | VH | NT | -5.01 | 0.00 | PASS |
| DC_5A_n66A | 15 | 5+20 | DFT-16QAM | M+H | Outer_Full | VL | NT | -3.66 | 0.00 | PASS |
| DC_5A_n66A | 15 | 5+20 | DFT-16QAM | M+H | Outer_Full | VN | NT | -3.30 | 0.00 | PASS |
| DC_5A_n66A | 15 | 5+20 | DFT-16QAM | M+H | Outer_Full | VH | NT | -3.01 | 0.00 | PASS |

Frequency Error VS. Temperature

| Voltage | | | | | | | | | | |
|------------|-----|-----------|------------|---------|------------|---------|-------------|---------------|-----------------|---------|
| Band | SCS | Bandwidth | Modulation | Channel | RB Config | Voltage | Temperature | Deviation(Hz) | Deviation (ppm) | Verdict |
| DC_5A_n66A | 15 | 5+5 | DFT-QPSK | M+L | Outer_Full | NV | -30 | -0.417870 | -0.000244 | PASS |
| DC_5A_n66A | 15 | 5+5 | DFT-QPSK | M+L | Outer_Full | NV | -20 | -2.482562 | -0.001450 | PASS |
| DC_5A_n66A | 15 | 5+5 | DFT-QPSK | M+L | Outer_Full | NV | -10 | -2.506855 | -0.001464 | PASS |
| DC_5A_n66A | 15 | 5+5 | DFT-QPSK | M+L | Outer_Full | NV | 0 | -1.135691 | -0.000663 | PASS |
| DC_5A_n66A | 15 | 5+5 | DFT-QPSK | M+L | Outer_Full | NV | 10 | 1.050237 | 0.000613 | PASS |
| DC_5A_n66A | 15 | 5+5 | DFT-QPSK | M+L | Outer_Full | NV | 20 | -4.123309 | -0.002408 | PASS |

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|----------------|----|-----|-----------|-----|------------|----|-----|-----------|-----------|------|
| n66A | | | | | | | | | | |
| DC_5A_ n66A | 15 | 5+5 | DFT-QPSK | M+L | Outer_Full | NV | 30 | -1.557551 | -0.000910 | PASS |
| DC_5A_ n66A | 15 | 5+5 | DFT-QPSK | M+L | Outer_Full | NV | 40 | 0.016396 | 0.000010 | PASS |
| DC_5A_ n66A | 15 | 5+5 | DFT-QPSK | M+L | Outer_Full | NV | 50 | 1.059638 | 0.000619 | PASS |
| DC_5A_ n66A | 15 | 5+5 | DFT-16QAM | M+L | Outer_Full | NV | -30 | -1.135877 | -0.000663 | PASS |
| DC_5A_ n66A | 15 | 5+5 | DFT-16QAM | M+L | Outer_Full | NV | -20 | -0.083362 | -0.000049 | PASS |
| DC_5A_ n66A | 15 | 5+5 | DFT-16QAM | M+L | Outer_Full | NV | -10 | -0.642142 | -0.000375 | PASS |
| DC_5A_ n66A | 15 | 5+5 | DFT-16QAM | M+L | Outer_Full | NV | 0 | -0.363410 | -0.000212 | PASS |
| DC_5A_ n66A | 15 | 5+5 | DFT-16QAM | M+L | Outer_Full | NV | 10 | -1.080907 | -0.000631 | PASS |
| DC_5A_ n66A | 15 | 5+5 | DFT-16QAM | M+L | Outer_Full | NV | 20 | -1.186976 | -0.000693 | PASS |
| DC_5A_ n66A | 15 | 5+5 | DFT-16QAM | M+L | Outer_Full | NV | 30 | -0.966055 | -0.000564 | PASS |
| DC_5A_ n66A | 15 | 5+5 | DFT-16QAM | M+L | Outer_Full | NV | 40 | -2.568401 | -0.001500 | PASS |
| DC_5A_ n66A | 15 | 5+5 | DFT-16QAM | M+L | Outer_Full | NV | 50 | 0.342502 | 0.000200 | PASS |
| DC_5A_ n66A | 15 | 5+5 | DFT-QPSK | M+M | Outer_Full | NV | -30 | -0.261071 | -0.000150 | PASS |
| DC_5A_ n66A | 15 | 5+5 | DFT-QPSK | M+M | Outer_Full | NV | -20 | -1.207395 | -0.000692 | PASS |
| DC_5A_ n66A | 15 | 5+5 | DFT-QPSK | M+M | Outer_Full | NV | -10 | -1.244961 | -0.000713 | PASS |
| DC_5A_ n66A | 15 | 5+5 | DFT-QPSK | M+M | Outer_Full | NV | 0 | -0.063726 | -0.000037 | PASS |
| DC_5A_ n66A | 15 | 5+5 | DFT-QPSK | M+M | Outer_Full | NV | 10 | 0.144443 | 0.000083 | PASS |
| DC_5A_ n66A | 15 | 5+5 | DFT-QPSK | M+M | Outer_Full | NV | 20 | -1.262707 | -0.000724 | PASS |
| DC_5A_ n66A | 15 | 5+5 | DFT-QPSK | M+M | Outer_Full | NV | 30 | -2.122464 | -0.001216 | PASS |
| DC_5A_ n66A | 15 | 5+5 | DFT-QPSK | M+M | Outer_Full | NV | 40 | -1.894570 | -0.001086 | PASS |
| DC_5A_ n66A | 15 | 5+5 | DFT-QPSK | M+M | Outer_Full | NV | 50 | -5.171572 | -0.002964 | PASS |

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|----------------|----|-----|-----------|-----|------------|----|-----|-----------|-----------|------|
| n66A | | | | | | | | | | |
| DC_5A_ n66A | 15 | 5+5 | DFT-16QAM | M+M | Outer_Full | NV | -30 | -0.016698 | -0.000010 | PASS |
| DC_5A_ n66A | 15 | 5+5 | DFT-16QAM | M+M | Outer_Full | NV | -20 | -0.387416 | -0.000222 | PASS |
| DC_5A_ n66A | 15 | 5+5 | DFT-16QAM | M+M | Outer_Full | NV | -10 | -1.466974 | -0.000841 | PASS |
| DC_5A_ n66A | 15 | 5+5 | DFT-16QAM | M+M | Outer_Full | NV | 0 | -2.287973 | -0.001311 | PASS |
| DC_5A_ n66A | 15 | 5+5 | DFT-16QAM | M+M | Outer_Full | NV | 10 | -1.517689 | -0.000870 | PASS |
| DC_5A_ n66A | 15 | 5+5 | DFT-16QAM | M+M | Outer_Full | NV | 20 | -1.331609 | -0.000763 | PASS |
| DC_5A_ n66A | 15 | 5+5 | DFT-16QAM | M+M | Outer_Full | NV | 30 | -1.227482 | -0.000703 | PASS |
| DC_5A_ n66A | 15 | 5+5 | DFT-16QAM | M+M | Outer_Full | NV | 40 | -0.646449 | -0.000370 | PASS |
| DC_5A_ n66A | 15 | 5+5 | DFT-16QAM | M+M | Outer_Full | NV | 50 | -3.058167 | -0.001753 | PASS |
| DC_5A_ n66A | 15 | 5+5 | DFT-QPSK | M+H | Outer_Full | NV | -30 | -1.231563 | -0.000693 | PASS |
| DC_5A_ n66A | 15 | 5+5 | DFT-QPSK | M+H | Outer_Full | NV | -20 | 0.209508 | 0.000118 | PASS |
| DC_5A_ n66A | 15 | 5+5 | DFT-QPSK | M+H | Outer_Full | NV | -10 | -0.742318 | -0.000418 | PASS |
| DC_5A_ n66A | 15 | 5+5 | DFT-QPSK | M+H | Outer_Full | NV | 0 | 0.802827 | 0.000452 | PASS |
| DC_5A_ n66A | 15 | 5+5 | DFT-QPSK | M+H | Outer_Full | NV | 10 | -2.037004 | -0.001146 | PASS |
| DC_5A_ n66A | 15 | 5+5 | DFT-QPSK | M+H | Outer_Full | NV | 20 | 0.272158 | 0.000153 | PASS |
| DC_5A_ n66A | 15 | 5+5 | DFT-QPSK | M+H | Outer_Full | NV | 30 | 0.144335 | 0.000081 | PASS |
| DC_5A_ n66A | 15 | 5+5 | DFT-QPSK | M+H | Outer_Full | NV | 40 | -0.469844 | -0.000264 | PASS |
| DC_5A_ n66A | 15 | 5+5 | DFT-QPSK | M+H | Outer_Full | NV | 50 | -2.574471 | -0.001448 | PASS |
| DC_5A_ n66A | 15 | 5+5 | DFT-16QAM | M+H | Outer_Full | NV | -30 | 0.443305 | 0.000249 | PASS |
| DC_5A_ n66A | 15 | 5+5 | DFT-16QAM | M+H | Outer_Full | NV | -20 | -2.730215 | -0.001536 | PASS |
| DC_5A_ n66A | 15 | 5+5 | DFT-16QAM | M+H | Outer_Full | NV | -10 | -0.778205 | -0.000438 | PASS |

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|----------------|----|------|-----------|-----|------------|----|-----|-----------|-----------|------|
| n66A | | | | | | | | | | |
| DC_5A_ n66A | 15 | 5+5 | DFT-16QAM | M+H | Outer_Full | NV | 0 | -3.137407 | -0.001765 | PASS |
| DC_5A_ n66A | 15 | 5+5 | DFT-16QAM | M+H | Outer_Full | NV | 10 | -3.987432 | -0.002243 | PASS |
| DC_5A_ n66A | 15 | 5+5 | DFT-16QAM | M+H | Outer_Full | NV | 20 | -2.994281 | -0.001685 | PASS |
| DC_5A_ n66A | 15 | 5+5 | DFT-16QAM | M+H | Outer_Full | NV | 30 | -3.471189 | -0.001953 | PASS |
| DC_5A_ n66A | 15 | 5+5 | DFT-16QAM | M+H | Outer_Full | NV | 40 | -0.924253 | -0.000520 | PASS |
| DC_5A_ n66A | 15 | 5+5 | DFT-16QAM | M+H | Outer_Full | NV | 50 | -3.634890 | -0.002045 | PASS |
| DC_5A_ n66A | 15 | 5+10 | DFT-QPSK | M+L | Outer_Full | NV | -30 | -2.723555 | -0.001588 | PASS |
| DC_5A_ n66A | 15 | 5+10 | DFT-QPSK | M+L | Outer_Full | NV | -20 | -2.519863 | -0.001469 | PASS |
| DC_5A_ n66A | 15 | 5+10 | DFT-QPSK | M+L | Outer_Full | NV | -10 | -3.600441 | -0.002099 | PASS |
| DC_5A_ n66A | 15 | 5+10 | DFT-QPSK | M+L | Outer_Full | NV | 0 | -3.016385 | -0.001759 | PASS |
| DC_5A_ n66A | 15 | 5+10 | DFT-QPSK | M+L | Outer_Full | NV | 10 | -1.587610 | -0.000926 | PASS |
| DC_5A_ n66A | 15 | 5+10 | DFT-QPSK | M+L | Outer_Full | NV | 20 | -2.552605 | -0.001488 | PASS |
| DC_5A_ n66A | 15 | 5+10 | DFT-QPSK | M+L | Outer_Full | NV | 30 | -1.817643 | -0.001060 | PASS |
| DC_5A_ n66A | 15 | 5+10 | DFT-QPSK | M+L | Outer_Full | NV | 40 | -3.903577 | -0.002276 | PASS |
| DC_5A_ n66A | 15 | 5+10 | DFT-QPSK | M+L | Outer_Full | NV | 50 | -1.786598 | -0.001042 | PASS |
| DC_5A_ n66A | 15 | 5+10 | DFT-16QAM | M+L | Outer_Full | NV | -30 | -2.291466 | -0.001336 | PASS |
| DC_5A_ n66A | 15 | 5+10 | DFT-16QAM | M+L | Outer_Full | NV | -20 | -2.373320 | -0.001384 | PASS |
| DC_5A_ n66A | 15 | 5+10 | DFT-16QAM | M+L | Outer_Full | NV | -10 | -2.823769 | -0.001647 | PASS |
| DC_5A_ n66A | 15 | 5+10 | DFT-16QAM | M+L | Outer_Full | NV | 0 | -0.928805 | -0.000542 | PASS |
| DC_5A_ n66A | 15 | 5+10 | DFT-16QAM | M+L | Outer_Full | NV | 10 | -1.828461 | -0.001066 | PASS |
| DC_5A_ n66A | 15 | 5+10 | DFT-16QAM | M+L | Outer_Full | NV | 20 | -3.077169 | -0.001794 | PASS |

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|----------------|----|------|-----------|-----|------------|----|-----|-----------|-----------|------|
| n66A | | | | | | | | | | |
| DC_5A_ n66A | 15 | 5+10 | DFT-16QAM | M+L | Outer_Full | NV | 30 | -2.153504 | -0.001256 | PASS |
| DC_5A_ n66A | 15 | 5+10 | DFT-16QAM | M+L | Outer_Full | NV | 40 | -4.270586 | -0.002490 | PASS |
| DC_5A_ n66A | 15 | 5+10 | DFT-16QAM | M+L | Outer_Full | NV | 50 | -2.673000 | -0.001559 | PASS |
| DC_5A_ n66A | 15 | 5+10 | DFT-QPSK | M+M | Outer_Full | NV | -30 | -1.353972 | -0.000776 | PASS |
| DC_5A_ n66A | 15 | 5+10 | DFT-QPSK | M+M | Outer_Full | NV | -20 | -2.619080 | -0.001501 | PASS |
| DC_5A_ n66A | 15 | 5+10 | DFT-QPSK | M+M | Outer_Full | NV | -10 | -3.135213 | -0.001797 | PASS |
| DC_5A_ n66A | 15 | 5+10 | DFT-QPSK | M+M | Outer_Full | NV | 0 | -3.524744 | -0.002020 | PASS |
| DC_5A_ n66A | 15 | 5+10 | DFT-QPSK | M+M | Outer_Full | NV | 10 | -3.907487 | -0.002239 | PASS |
| DC_5A_ n66A | 15 | 5+10 | DFT-QPSK | M+M | Outer_Full | NV | 20 | -3.438877 | -0.001971 | PASS |
| DC_5A_ n66A | 15 | 5+10 | DFT-QPSK | M+M | Outer_Full | NV | 30 | -4.846645 | -0.002777 | PASS |
| DC_5A_ n66A | 15 | 5+10 | DFT-QPSK | M+M | Outer_Full | NV | 40 | -3.399265 | -0.001948 | PASS |
| DC_5A_ n66A | 15 | 5+10 | DFT-QPSK | M+M | Outer_Full | NV | 50 | -4.879268 | -0.002796 | PASS |
| DC_5A_ n66A | 15 | 5+10 | DFT-16QAM | M+M | Outer_Full | NV | -30 | -4.029904 | -0.002309 | PASS |
| DC_5A_ n66A | 15 | 5+10 | DFT-16QAM | M+M | Outer_Full | NV | -20 | -3.043853 | -0.001744 | PASS |
| DC_5A_ n66A | 15 | 5+10 | DFT-16QAM | M+M | Outer_Full | NV | -10 | -2.853304 | -0.001635 | PASS |
| DC_5A_ n66A | 15 | 5+10 | DFT-16QAM | M+M | Outer_Full | NV | 0 | -3.953471 | -0.002266 | PASS |
| DC_5A_ n66A | 15 | 5+10 | DFT-16QAM | M+M | Outer_Full | NV | 10 | -4.159059 | -0.002383 | PASS |
| DC_5A_ n66A | 15 | 5+10 | DFT-16QAM | M+M | Outer_Full | NV | 20 | -4.747670 | -0.002721 | PASS |
| DC_5A_ n66A | 15 | 5+10 | DFT-16QAM | M+M | Outer_Full | NV | 30 | -2.899035 | -0.001661 | PASS |
| DC_5A_ n66A | 15 | 5+10 | DFT-16QAM | M+M | Outer_Full | NV | 40 | -4.319443 | -0.002475 | PASS |
| DC_5A_ n66A | 15 | 5+10 | DFT-16QAM | M+M | Outer_Full | NV | 50 | -2.397744 | -0.001374 | PASS |

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|----------------|----|------|-----------|-----|------------|----|-----|-----------|-----------|------|
| n66A | | | | | | | | | | |
| DC_5A_ n66A | 15 | 5+10 | DFT-QPSK | M+H | Outer_Full | NV | -30 | -1.836242 | -0.001035 | PASS |
| DC_5A_ n66A | 15 | 5+10 | DFT-QPSK | M+H | Outer_Full | NV | -20 | -2.178289 | -0.001227 | PASS |
| DC_5A_ n66A | 15 | 5+10 | DFT-QPSK | M+H | Outer_Full | NV | -10 | -1.382276 | -0.000779 | PASS |
| DC_5A_ n66A | 15 | 5+10 | DFT-QPSK | M+H | Outer_Full | NV | 0 | -1.007268 | -0.000567 | PASS |
| DC_5A_ n66A | 15 | 5+10 | DFT-QPSK | M+H | Outer_Full | NV | 10 | -1.910394 | -0.001076 | PASS |
| DC_5A_ n66A | 15 | 5+10 | DFT-QPSK | M+H | Outer_Full | NV | 20 | -2.526377 | -0.001423 | PASS |
| DC_5A_ n66A | 15 | 5+10 | DFT-QPSK | M+H | Outer_Full | NV | 30 | -0.939938 | -0.000530 | PASS |
| DC_5A_ n66A | 15 | 5+10 | DFT-QPSK | M+H | Outer_Full | NV | 40 | -2.052083 | -0.001156 | PASS |
| DC_5A_ n66A | 15 | 5+10 | DFT-QPSK | M+H | Outer_Full | NV | 50 | -2.516867 | -0.001418 | PASS |
| DC_5A_ n66A | 15 | 5+10 | DFT-16QAM | M+H | Outer_Full | NV | -30 | -0.018149 | -0.000010 | PASS |
| DC_5A_ n66A | 15 | 5+10 | DFT-16QAM | M+H | Outer_Full | NV | -20 | -2.213804 | -0.001247 | PASS |
| DC_5A_ n66A | 15 | 5+10 | DFT-16QAM | M+H | Outer_Full | NV | -10 | -1.131701 | -0.000638 | PASS |
| DC_5A_ n66A | 15 | 5+10 | DFT-16QAM | M+H | Outer_Full | NV | 0 | -0.596299 | -0.000336 | PASS |
| DC_5A_ n66A | 15 | 5+10 | DFT-16QAM | M+H | Outer_Full | NV | 10 | 0.369052 | 0.000208 | PASS |
| DC_5A_ n66A | 15 | 5+10 | DFT-16QAM | M+H | Outer_Full | NV | 20 | -0.847155 | -0.000477 | PASS |
| DC_5A_ n66A | 15 | 5+10 | DFT-16QAM | M+H | Outer_Full | NV | 30 | -0.382335 | -0.000215 | PASS |
| DC_5A_ n66A | 15 | 5+10 | DFT-16QAM | M+H | Outer_Full | NV | 40 | -1.110835 | -0.000626 | PASS |
| DC_5A_ n66A | 15 | 5+10 | DFT-16QAM | M+H | Outer_Full | NV | 50 | -2.238161 | -0.001261 | PASS |
| DC_5A_ n66A | 15 | 5+15 | DFT-QPSK | M+L | Outer_Full | NV | -30 | -1.401864 | -0.000816 | PASS |
| DC_5A_ n66A | 15 | 5+15 | DFT-QPSK | M+L | Outer_Full | NV | -20 | -1.697321 | -0.000988 | PASS |
| DC_5A_ n66A | 15 | 5+15 | DFT-QPSK | M+L | Outer_Full | NV | -10 | -1.322339 | -0.000770 | PASS |

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|----------------|----|------|-----------|-----|------------|----|-----|-----------|-----------|------|
| n66A | | | | | | | | | | |
| DC_5A_ n66A | 15 | 5+15 | DFT-QPSK | M+L | Outer_Full | NV | 0 | -2.297707 | -0.001338 | PASS |
| DC_5A_ n66A | 15 | 5+15 | DFT-QPSK | M+L | Outer_Full | NV | 10 | -2.955021 | -0.001721 | PASS |
| DC_5A_ n66A | 15 | 5+15 | DFT-QPSK | M+L | Outer_Full | NV | 20 | -1.208548 | -0.000704 | PASS |
| DC_5A_ n66A | 15 | 5+15 | DFT-QPSK | M+L | Outer_Full | NV | 30 | -2.120825 | -0.001235 | PASS |
| DC_5A_ n66A | 15 | 5+15 | DFT-QPSK | M+L | Outer_Full | NV | 40 | -3.035403 | -0.001767 | PASS |
| DC_5A_ n66A | 15 | 5+15 | DFT-QPSK | M+L | Outer_Full | NV | 50 | -4.323628 | -0.002517 | PASS |
| DC_5A_ n66A | 15 | 5+15 | DFT-16QAM | M+L | Outer_Full | NV | -30 | -3.679947 | -0.002143 | PASS |
| DC_5A_ n66A | 15 | 5+15 | DFT-16QAM | M+L | Outer_Full | NV | -20 | -1.874898 | -0.001092 | PASS |
| DC_5A_ n66A | 15 | 5+15 | DFT-16QAM | M+L | Outer_Full | NV | -10 | -2.117247 | -0.001233 | PASS |
| DC_5A_ n66A | 15 | 5+15 | DFT-16QAM | M+L | Outer_Full | NV | 0 | -1.973366 | -0.001149 | PASS |
| DC_5A_ n66A | 15 | 5+15 | DFT-16QAM | M+L | Outer_Full | NV | 10 | -1.512451 | -0.000881 | PASS |
| DC_5A_ n66A | 15 | 5+15 | DFT-16QAM | M+L | Outer_Full | NV | 20 | -3.716126 | -0.002164 | PASS |
| DC_5A_ n66A | 15 | 5+15 | DFT-16QAM | M+L | Outer_Full | NV | 30 | -1.959766 | -0.001141 | PASS |
| DC_5A_ n66A | 15 | 5+15 | DFT-16QAM | M+L | Outer_Full | NV | 40 | -0.769036 | -0.000448 | PASS |
| DC_5A_ n66A | 15 | 5+15 | DFT-16QAM | M+L | Outer_Full | NV | 50 | -2.770193 | -0.001613 | PASS |
| DC_5A_ n66A | 15 | 5+15 | DFT-QPSK | M+M | Outer_Full | NV | -30 | -3.268265 | -0.001873 | PASS |
| DC_5A_ n66A | 15 | 5+15 | DFT-QPSK | M+M | Outer_Full | NV | -20 | -3.628928 | -0.002080 | PASS |
| DC_5A_ n66A | 15 | 5+15 | DFT-QPSK | M+M | Outer_Full | NV | -10 | -0.945781 | -0.000542 | PASS |
| DC_5A_ n66A | 15 | 5+15 | DFT-QPSK | M+M | Outer_Full | NV | 0 | 0.913346 | 0.000523 | PASS |
| DC_5A_ n66A | 15 | 5+15 | DFT-QPSK | M+M | Outer_Full | NV | 10 | 1.181384 | 0.000677 | PASS |
| DC_5A_ n66A | 15 | 5+15 | DFT-QPSK | M+M | Outer_Full | NV | 20 | -0.346794 | -0.000199 | PASS |

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|----------------|----|------|-----------|-----|------------|----|-----|-----------|-----------|------|
| n66A | | | | | | | | | | |
| DC_5A_ n66A | 15 | 5+15 | DFT-QPSK | M+M | Outer_Full | NV | 30 | -0.598699 | -0.000343 | PASS |
| DC_5A_ n66A | 15 | 5+15 | DFT-QPSK | M+M | Outer_Full | NV | 40 | 1.559486 | 0.000894 | PASS |
| DC_5A_ n66A | 15 | 5+15 | DFT-QPSK | M+M | Outer_Full | NV | 50 | 0.538151 | 0.000308 | PASS |
| DC_5A_ n66A | 15 | 5+15 | DFT-16QAM | M+M | Outer_Full | NV | -30 | -1.050287 | -0.000602 | PASS |
| DC_5A_ n66A | 15 | 5+15 | DFT-16QAM | M+M | Outer_Full | NV | -20 | -1.362915 | -0.000781 | PASS |
| DC_5A_ n66A | 15 | 5+15 | DFT-16QAM | M+M | Outer_Full | NV | -10 | -1.635580 | -0.000937 | PASS |
| DC_5A_ n66A | 15 | 5+15 | DFT-16QAM | M+M | Outer_Full | NV | 0 | -2.289121 | -0.001312 | PASS |
| DC_5A_ n66A | 15 | 5+15 | DFT-16QAM | M+M | Outer_Full | NV | 10 | -1.437668 | -0.000824 | PASS |
| DC_5A_ n66A | 15 | 5+15 | DFT-16QAM | M+M | Outer_Full | NV | 20 | -2.786305 | -0.001597 | PASS |
| DC_5A_ n66A | 15 | 5+15 | DFT-16QAM | M+M | Outer_Full | NV | 30 | -2.795655 | -0.001602 | PASS |
| DC_5A_ n66A | 15 | 5+15 | DFT-16QAM | M+M | Outer_Full | NV | 40 | -2.532228 | -0.001451 | PASS |
| DC_5A_ n66A | 15 | 5+15 | DFT-16QAM | M+M | Outer_Full | NV | 50 | -2.384994 | -0.001367 | PASS |
| DC_5A_ n66A | 15 | 5+15 | DFT-QPSK | M+H | Outer_Full | NV | -30 | -1.427255 | -0.000805 | PASS |
| DC_5A_ n66A | 15 | 5+15 | DFT-QPSK | M+H | Outer_Full | NV | -20 | -0.846904 | -0.000478 | PASS |
| DC_5A_ n66A | 15 | 5+15 | DFT-QPSK | M+H | Outer_Full | NV | -10 | -3.524269 | -0.001988 | PASS |
| DC_5A_ n66A | 15 | 5+15 | DFT-QPSK | M+H | Outer_Full | NV | 0 | -3.585342 | -0.002023 | PASS |
| DC_5A_ n66A | 15 | 5+15 | DFT-QPSK | M+H | Outer_Full | NV | 10 | -3.083745 | -0.001740 | PASS |
| DC_5A_ n66A | 15 | 5+15 | DFT-QPSK | M+H | Outer_Full | NV | 20 | -3.110317 | -0.001755 | PASS |
| DC_5A_ n66A | 15 | 5+15 | DFT-QPSK | M+H | Outer_Full | NV | 30 | -5.382164 | -0.003036 | PASS |
| DC_5A_ n66A | 15 | 5+15 | DFT-QPSK | M+H | Outer_Full | NV | 40 | -1.916034 | -0.001081 | PASS |
| DC_5A_ n66A | 15 | 5+15 | DFT-QPSK | M+H | Outer_Full | NV | 50 | -5.286877 | -0.002983 | PASS |

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|----------------|----|------|-----------|-----|------------|----|-----|-----------|-----------|------|
| n66A | | | | | | | | | | |
| DC_5A_ n66A | 15 | 5+15 | DFT-16QAM | M+H | Outer_Full | NV | -30 | -4.580412 | -0.002584 | PASS |
| DC_5A_ n66A | 15 | 5+15 | DFT-16QAM | M+H | Outer_Full | NV | -20 | -5.076949 | -0.002864 | PASS |
| DC_5A_ n66A | 15 | 5+15 | DFT-16QAM | M+H | Outer_Full | NV | -10 | -5.289375 | -0.002984 | PASS |
| DC_5A_ n66A | 15 | 5+15 | DFT-16QAM | M+H | Outer_Full | NV | 0 | -3.814385 | -0.002152 | PASS |
| DC_5A_ n66A | 15 | 5+15 | DFT-16QAM | M+H | Outer_Full | NV | 10 | -4.864521 | -0.002744 | PASS |
| DC_5A_ n66A | 15 | 5+15 | DFT-16QAM | M+H | Outer_Full | NV | 20 | -4.024862 | -0.002271 | PASS |
| DC_5A_ n66A | 15 | 5+15 | DFT-16QAM | M+H | Outer_Full | NV | 30 | -4.380847 | -0.002472 | PASS |
| DC_5A_ n66A | 15 | 5+15 | DFT-16QAM | M+H | Outer_Full | NV | 40 | -2.724351 | -0.001537 | PASS |
| DC_5A_ n66A | 15 | 5+15 | DFT-16QAM | M+H | Outer_Full | NV | 50 | -5.206844 | -0.002938 | PASS |
| DC_5A_ n66A | 15 | 5+20 | DFT-QPSK | M+L | Outer_Full | NV | -30 | -5.569633 | -0.003238 | PASS |
| DC_5A_ n66A | 15 | 5+20 | DFT-QPSK | M+L | Outer_Full | NV | -20 | -4.727280 | -0.002748 | PASS |
| DC_5A_ n66A | 15 | 5+20 | DFT-QPSK | M+L | Outer_Full | NV | -10 | -3.890095 | -0.002262 | PASS |
| DC_5A_ n66A | 15 | 5+20 | DFT-QPSK | M+L | Outer_Full | NV | 0 | -4.772965 | -0.002775 | PASS |
| DC_5A_ n66A | 15 | 5+20 | DFT-QPSK | M+L | Outer_Full | NV | 10 | -4.660547 | -0.002710 | PASS |
| DC_5A_ n66A | 15 | 5+20 | DFT-QPSK | M+L | Outer_Full | NV | 20 | -1.948845 | -0.001133 | PASS |
| DC_5A_ n66A | 15 | 5+20 | DFT-QPSK | M+L | Outer_Full | NV | 30 | -2.573847 | -0.001496 | PASS |
| DC_5A_ n66A | 15 | 5+20 | DFT-QPSK | M+L | Outer_Full | NV | 40 | -2.215121 | -0.001288 | PASS |
| DC_5A_ n66A | 15 | 5+20 | DFT-QPSK | M+L | Outer_Full | NV | 50 | -3.459925 | -0.002012 | PASS |
| DC_5A_ n66A | 15 | 5+20 | DFT-16QAM | M+L | Outer_Full | NV | -30 | -3.426675 | -0.001992 | PASS |
| DC_5A_ n66A | 15 | 5+20 | DFT-16QAM | M+L | Outer_Full | NV | -20 | -3.734900 | -0.002171 | PASS |
| DC_5A_ n66A | 15 | 5+20 | DFT-16QAM | M+L | Outer_Full | NV | -10 | -3.560037 | -0.002070 | PASS |

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|----------------|----|------|-----------|-----|------------|----|-----|-----------|-----------|------|
| n66A | | | | | | | | | | |
| DC_5A_ n66A | 15 | 5+20 | DFT-16QAM | M+L | Outer_Full | NV | 0 | -5.741392 | -0.003338 | PASS |
| DC_5A_ n66A | 15 | 5+20 | DFT-16QAM | M+L | Outer_Full | NV | 10 | -6.452454 | -0.003751 | PASS |
| DC_5A_ n66A | 15 | 5+20 | DFT-16QAM | M+L | Outer_Full | NV | 20 | -4.316319 | -0.002509 | PASS |
| DC_5A_ n66A | 15 | 5+20 | DFT-16QAM | M+L | Outer_Full | NV | 30 | -3.077527 | -0.001789 | PASS |
| DC_5A_ n66A | 15 | 5+20 | DFT-16QAM | M+L | Outer_Full | NV | 40 | -3.425502 | -0.001992 | PASS |
| DC_5A_ n66A | 15 | 5+20 | DFT-16QAM | M+L | Outer_Full | NV | 50 | -3.567537 | -0.002074 | PASS |
| DC_5A_ n66A | 15 | 5+20 | DFT-QPSK | M+M | Outer_Full | NV | -30 | -4.471063 | -0.002562 | PASS |
| DC_5A_ n66A | 15 | 5+20 | DFT-QPSK | M+M | Outer_Full | NV | -20 | -3.581256 | -0.002052 | PASS |
| DC_5A_ n66A | 15 | 5+20 | DFT-QPSK | M+M | Outer_Full | NV | -10 | -3.914682 | -0.002243 | PASS |
| DC_5A_ n66A | 15 | 5+20 | DFT-QPSK | M+M | Outer_Full | NV | 0 | -4.693264 | -0.002690 | PASS |
| DC_5A_ n66A | 15 | 5+20 | DFT-QPSK | M+M | Outer_Full | NV | 10 | -4.500310 | -0.002579 | PASS |
| DC_5A_ n66A | 15 | 5+20 | DFT-QPSK | M+M | Outer_Full | NV | 20 | -3.611208 | -0.002069 | PASS |
| DC_5A_ n66A | 15 | 5+20 | DFT-QPSK | M+M | Outer_Full | NV | 30 | -3.139220 | -0.001799 | PASS |
| DC_5A_ n66A | 15 | 5+20 | DFT-QPSK | M+M | Outer_Full | NV | 40 | -2.209366 | -0.001266 | PASS |
| DC_5A_ n66A | 15 | 5+20 | DFT-QPSK | M+M | Outer_Full | NV | 50 | -4.506625 | -0.002583 | PASS |
| DC_5A_ n66A | 15 | 5+20 | DFT-16QAM | M+M | Outer_Full | NV | -30 | 0.278826 | 0.000160 | PASS |
| DC_5A_ n66A | 15 | 5+20 | DFT-16QAM | M+M | Outer_Full | NV | -20 | -0.220302 | -0.000126 | PASS |
| DC_5A_ n66A | 15 | 5+20 | DFT-16QAM | M+M | Outer_Full | NV | -10 | -0.071749 | -0.000041 | PASS |
| DC_5A_ n66A | 15 | 5+20 | DFT-16QAM | M+M | Outer_Full | NV | 0 | -0.876098 | -0.000502 | PASS |
| DC_5A_ n66A | 15 | 5+20 | DFT-16QAM | M+M | Outer_Full | NV | 10 | -2.073504 | -0.001188 | PASS |
| DC_5A_ n66A | 15 | 5+20 | DFT-16QAM | M+M | Outer_Full | NV | 20 | 0.547919 | 0.000314 | PASS |

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|----------------|----|------|-----------|-----|------------|----|-----|-----------|-----------|------|
| n66A | | | | | | | | | | |
| DC_5A_ n66A | 15 | 5+20 | DFT-16QAM | M+M | Outer_Full | NV | 30 | -0.748628 | -0.000429 | PASS |
| DC_5A_ n66A | 15 | 5+20 | DFT-16QAM | M+M | Outer_Full | NV | 40 | 1.382648 | 0.000792 | PASS |
| DC_5A_ n66A | 15 | 5+20 | DFT-16QAM | M+M | Outer_Full | NV | 50 | 1.553281 | 0.000890 | PASS |
| DC_5A_ n66A | 15 | 5+20 | DFT-QPSK | M+H | Outer_Full | NV | -30 | -3.684057 | -0.002081 | PASS |
| DC_5A_ n66A | 15 | 5+20 | DFT-QPSK | M+H | Outer_Full | NV | -20 | -2.257276 | -0.001275 | PASS |
| DC_5A_ n66A | 15 | 5+20 | DFT-QPSK | M+H | Outer_Full | NV | -10 | -2.890093 | -0.001633 | PASS |
| DC_5A_ n66A | 15 | 5+20 | DFT-QPSK | M+H | Outer_Full | NV | 0 | -4.048791 | -0.002287 | PASS |
| DC_5A_ n66A | 15 | 5+20 | DFT-QPSK | M+H | Outer_Full | NV | 10 | -3.060586 | -0.001729 | PASS |
| DC_5A_ n66A | 15 | 5+20 | DFT-QPSK | M+H | Outer_Full | NV | 20 | -1.222815 | -0.000691 | PASS |
| DC_5A_ n66A | 15 | 5+20 | DFT-QPSK | M+H | Outer_Full | NV | 30 | -5.150603 | -0.002910 | PASS |
| DC_5A_ n66A | 15 | 5+20 | DFT-QPSK | M+H | Outer_Full | NV | 40 | -3.090103 | -0.001746 | PASS |
| DC_5A_ n66A | 15 | 5+20 | DFT-QPSK | M+H | Outer_Full | NV | 50 | -4.387226 | -0.002479 | PASS |
| DC_5A_ n66A | 15 | 5+20 | DFT-16QAM | M+H | Outer_Full | NV | -30 | -3.780769 | -0.002136 | PASS |
| DC_5A_ n66A | 15 | 5+20 | DFT-16QAM | M+H | Outer_Full | NV | -20 | -2.796333 | -0.001580 | PASS |
| DC_5A_ n66A | 15 | 5+20 | DFT-16QAM | M+H | Outer_Full | NV | -10 | -5.312900 | -0.003002 | PASS |
| DC_5A_ n66A | 15 | 5+20 | DFT-16QAM | M+H | Outer_Full | NV | 0 | -3.589078 | -0.002028 | PASS |
| DC_5A_ n66A | 15 | 5+20 | DFT-16QAM | M+H | Outer_Full | NV | 10 | -3.699023 | -0.002090 | PASS |
| DC_5A_ n66A | 15 | 5+20 | DFT-16QAM | M+H | Outer_Full | NV | 20 | -4.507207 | -0.002546 | PASS |
| DC_5A_ n66A | 15 | 5+20 | DFT-16QAM | M+H | Outer_Full | NV | 30 | -2.177624 | -0.001230 | PASS |
| DC_5A_ n66A | 15 | 5+20 | DFT-16QAM | M+H | Outer_Full | NV | 40 | -2.712305 | -0.001532 | PASS |
| DC_5A_ n66A | 15 | 5+20 | DFT-16QAM | M+H | Outer_Full | NV | 50 | -4.806178 | -0.002715 | PASS |

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|------|--|--|--|--|--|--|--|--|--|--|
| n66A | | | | | | | | | | |
|------|--|--|--|--|--|--|--|--|--|--|