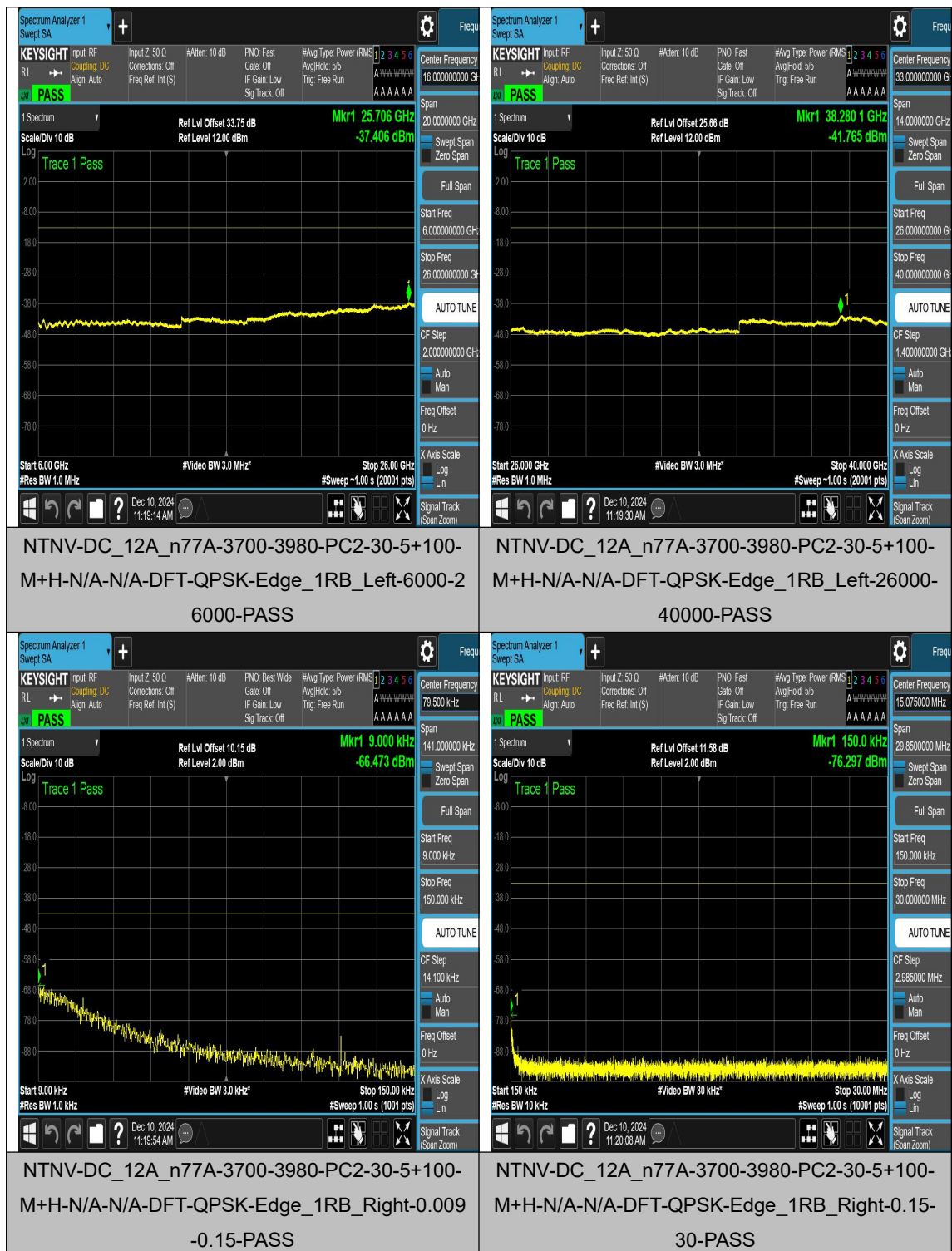






## Appendix F: Frequency Stability for NSA

### Test Result

#### Frequency Error VS. Voltage

| Band                      | SCS | Bandwidth | Modulation | Channel | RB Config  | Voltage | Temperature | Deviation(Hz) | Deviation (ppm) | Verdict |
|---------------------------|-----|-----------|------------|---------|------------|---------|-------------|---------------|-----------------|---------|
| DC_12A_n77A-3<br>700-3980 | 30  | 5+20      | DFT-QPSK   | M+L     | Outer_Full | VL      | NT          | -3.440000     | -0.000927       | PASS    |
| DC_12A_n77A-3<br>700-3980 | 30  | 5+20      | DFT-QPSK   | M+L     | Outer_Full | VN      | NT          | -5.670000     | -0.001528       | PASS    |
| DC_12A_n77A-3<br>700-3980 | 30  | 5+20      | DFT-QPSK   | M+L     | Outer_Full | VH      | NT          | -15.520000    | -0.004183       | PASS    |
| DC_12A_n77A-3<br>700-3980 | 30  | 5+20      | DFT-16QAM  | M+L     | Outer_Full | VL      | NT          | -11.340000    | -0.003057       | PASS    |
| DC_12A_n77A-3<br>700-3980 | 30  | 5+20      | DFT-16QAM  | M+L     | Outer_Full | VN      | NT          | -5.630000     | -0.001518       | PASS    |
| DC_12A_n77A-3<br>700-3980 | 30  | 5+20      | DFT-16QAM  | M+L     | Outer_Full | VH      | NT          | -8.750000     | -0.002358       | PASS    |
| DC_12A_n77A-3<br>700-3980 | 30  | 5+20      | DFT-QPSK   | M+M     | Outer_Full | VL      | NT          | -13.610000    | -0.003544       | PASS    |
| DC_12A_n77A-3<br>700-3980 | 30  | 5+20      | DFT-QPSK   | M+M     | Outer_Full | VN      | NT          | -9.080000     | -0.002365       | PASS    |
| DC_12A_n77A-3<br>700-3980 | 30  | 5+20      | DFT-QPSK   | M+M     | Outer_Full | VH      | NT          | -3.530000     | -0.000919       | PASS    |
| DC_12A_n77A-3<br>700-3980 | 30  | 5+20      | DFT-16QAM  | M+M     | Outer_Full | VL      | NT          | -9.620000     | -0.002505       | PASS    |
| DC_12A_n77A-3<br>700-3980 | 30  | 5+20      | DFT-16QAM  | M+M     | Outer_Full | VN      | NT          | -19.810000    | -0.005159       | PASS    |
| DC_12A_n77A-3<br>700-3980 | 30  | 5+20      | DFT-16QAM  | M+M     | Outer_Full | VH      | NT          | -10.640000    | -0.002771       | PASS    |

|                               |    |      |           |     |            |    |    |            |           |      |
|-------------------------------|----|------|-----------|-----|------------|----|----|------------|-----------|------|
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+20 | DFT-QPSK  | M+H | Outer_Full | VL | NT | -13.590000 | -0.003423 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+20 | DFT-QPSK  | M+H | Outer_Full | VN | NT | -8.710000  | -0.002194 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+20 | DFT-QPSK  | M+H | Outer_Full | VH | NT | -6.090000  | -0.001534 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+20 | DFT-16QAM | M+H | Outer_Full | VL | NT | -5.170000  | -0.001302 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+20 | DFT-16QAM | M+H | Outer_Full | VN | NT | -7.620000  | -0.001919 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+20 | DFT-16QAM | M+H | Outer_Full | VH | NT | -5.110000  | -0.001287 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+30 | DFT-QPSK  | M+L | Outer_Full | VL | NT | -9.940000  | -0.002676 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+30 | DFT-QPSK  | M+L | Outer_Full | VN | NT | -7.180000  | -0.001933 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+30 | DFT-QPSK  | M+L | Outer_Full | VH | NT | -8.780000  | -0.002363 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+30 | DFT-16QAM | M+L | Outer_Full | VL | NT | -9.200000  | -0.002476 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+30 | DFT-16QAM | M+L | Outer_Full | VN | NT | -8.700000  | -0.002342 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+30 | DFT-16QAM | M+L | Outer_Full | VH | NT | -11.350000 | -0.003055 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+30 | DFT-QPSK  | M+M | Outer_Full | VL | NT | -9.720000  | -0.002531 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+30 | DFT-QPSK  | M+M | Outer_Full | VN | NT | -9.600000  | -0.002500 | PASS |

|                               |    |      |           |     |            |    |    |            |           |      |
|-------------------------------|----|------|-----------|-----|------------|----|----|------------|-----------|------|
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+30 | DFT-QPSK  | M+M | Outer_Full | VH | NT | -14.020000 | -0.003651 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+30 | DFT-16QAM | M+M | Outer_Full | VL | NT | -10.600000 | -0.002760 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+30 | DFT-16QAM | M+M | Outer_Full | VN | NT | -13.030000 | -0.003393 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+30 | DFT-16QAM | M+M | Outer_Full | VH | NT | -1.690000  | -0.000440 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+30 | DFT-QPSK  | M+H | Outer_Full | VL | NT | -11.650000 | -0.002938 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+30 | DFT-QPSK  | M+H | Outer_Full | VN | NT | -6.760000  | -0.001705 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+30 | DFT-QPSK  | M+H | Outer_Full | VH | NT | -13.700000 | -0.003455 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+30 | DFT-16QAM | M+H | Outer_Full | VL | NT | -18.450000 | -0.004653 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+30 | DFT-16QAM | M+H | Outer_Full | VN | NT | -15.710000 | -0.003962 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+30 | DFT-16QAM | M+H | Outer_Full | VH | NT | -12.040000 | -0.003037 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+40 | DFT-QPSK  | M+L | Outer_Full | VL | NT | -13.160000 | -0.003538 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+40 | DFT-QPSK  | M+L | Outer_Full | VN | NT | -6.900000  | -0.001855 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+40 | DFT-QPSK  | M+L | Outer_Full | VH | NT | -5.140000  | -0.001382 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+40 | DFT-16QAM | M+L | Outer_Full | VL | NT | -1.610000  | -0.000433 | PASS |

|                               |    |      |           |     |            |    |    |            |           |      |
|-------------------------------|----|------|-----------|-----|------------|----|----|------------|-----------|------|
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+40 | DFT-16QAM | M+L | Outer_Full | VN | NT | -7.930000  | -0.002132 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+40 | DFT-16QAM | M+L | Outer_Full | VH | NT | -3.120000  | -0.000839 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+40 | DFT-QPSK  | M+M | Outer_Full | VL | NT | -8.750000  | -0.002279 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+40 | DFT-QPSK  | M+M | Outer_Full | VN | NT | -4.010000  | -0.001044 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+40 | DFT-QPSK  | M+M | Outer_Full | VH | NT | -12.890000 | -0.003357 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+40 | DFT-16QAM | M+M | Outer_Full | VL | NT | -9.640000  | -0.002510 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+40 | DFT-16QAM | M+M | Outer_Full | VN | NT | -7.970000  | -0.002076 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+40 | DFT-16QAM | M+M | Outer_Full | VH | NT | -12.080000 | -0.003146 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+40 | DFT-QPSK  | M+H | Outer_Full | VL | NT | -0.520000  | -0.000131 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+40 | DFT-QPSK  | M+H | Outer_Full | VN | NT | -7.260000  | -0.001833 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+40 | DFT-QPSK  | M+H | Outer_Full | VH | NT | -9.570000  | -0.002417 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+40 | DFT-16QAM | M+H | Outer_Full | VL | NT | -0.120000  | -0.000030 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+40 | DFT-16QAM | M+H | Outer_Full | VN | NT | -11.270000 | -0.002846 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+40 | DFT-16QAM | M+H | Outer_Full | VH | NT | -3.170000  | -0.000801 | PASS |

|                               |    |      |           |     |            |    |    |            |           |      |
|-------------------------------|----|------|-----------|-----|------------|----|----|------------|-----------|------|
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+60 | DFT-QPSK  | M+L | Outer_Full | VL | NT | -11.780000 | -0.003158 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+60 | DFT-QPSK  | M+L | Outer_Full | VN | NT | -8.230000  | -0.002206 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+60 | DFT-QPSK  | M+L | Outer_Full | VH | NT | -9.440000  | -0.002531 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+60 | DFT-16QAM | M+L | Outer_Full | VL | NT | -1.460000  | -0.000391 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+60 | DFT-16QAM | M+L | Outer_Full | VN | NT | -6.550000  | -0.001756 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+60 | DFT-16QAM | M+L | Outer_Full | VH | NT | -5.560000  | -0.001491 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+60 | DFT-QPSK  | M+M | Outer_Full | VL | NT | -8.870000  | -0.002310 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+60 | DFT-QPSK  | M+M | Outer_Full | VN | NT | -14.590000 | -0.003799 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+60 | DFT-QPSK  | M+M | Outer_Full | VH | NT | -4.460000  | -0.001161 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+60 | DFT-16QAM | M+M | Outer_Full | VL | NT | -16.320000 | -0.004250 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+60 | DFT-16QAM | M+M | Outer_Full | VN | NT | -8.950000  | -0.002331 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+60 | DFT-16QAM | M+M | Outer_Full | VH | NT | -6.380000  | -0.001661 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+60 | DFT-QPSK  | M+H | Outer_Full | VL | NT | -15.030000 | -0.003805 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+60 | DFT-QPSK  | M+H | Outer_Full | VN | NT | -1.720000  | -0.000435 | PASS |

|                               |    |      |           |     |            |    |    |            |           |      |
|-------------------------------|----|------|-----------|-----|------------|----|----|------------|-----------|------|
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+60 | DFT-QPSK  | M+H | Outer_Full | VH | NT | -5.360000  | -0.001357 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+60 | DFT-16QAM | M+H | Outer_Full | VL | NT | -21.240000 | -0.005377 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+60 | DFT-16QAM | M+H | Outer_Full | VN | NT | -11.360000 | -0.002876 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+60 | DFT-16QAM | M+H | Outer_Full | VH | NT | -7.420000  | -0.001878 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+80 | DFT-QPSK  | M+L | Outer_Full | VL | NT | -10.900000 | -0.002914 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+80 | DFT-QPSK  | M+L | Outer_Full | VN | NT | -6.770000  | -0.001810 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+80 | DFT-QPSK  | M+L | Outer_Full | VH | NT | -9.050000  | -0.002420 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+80 | DFT-16QAM | M+L | Outer_Full | VL | NT | -8.450000  | -0.002259 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+80 | DFT-16QAM | M+L | Outer_Full | VN | NT | -12.130000 | -0.003243 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+80 | DFT-16QAM | M+L | Outer_Full | VH | NT | 0.970000   | 0.000259  | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+80 | DFT-QPSK  | M+M | Outer_Full | VL | NT | -4.070000  | -0.001060 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+80 | DFT-QPSK  | M+M | Outer_Full | VN | NT | -9.840000  | -0.002563 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+80 | DFT-QPSK  | M+M | Outer_Full | VH | NT | -6.290000  | -0.001638 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+80 | DFT-16QAM | M+M | Outer_Full | VL | NT | -12.560000 | -0.003271 | PASS |

|                               |    |       |           |     |            |    |    |            |           |      |
|-------------------------------|----|-------|-----------|-----|------------|----|----|------------|-----------|------|
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+80  | DFT-16QAM | M+M | Outer_Full | VN | NT | -0.540000  | -0.000141 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+80  | DFT-16QAM | M+M | Outer_Full | VH | NT | -11.500000 | -0.002995 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+80  | DFT-QPSK  | M+H | Outer_Full | VL | NT | -4.700000  | -0.001193 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+80  | DFT-QPSK  | M+H | Outer_Full | VN | NT | -13.360000 | -0.003391 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+80  | DFT-QPSK  | M+H | Outer_Full | VH | NT | -8.720000  | -0.002213 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+80  | DFT-16QAM | M+H | Outer_Full | VL | NT | -6.880000  | -0.001746 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+80  | DFT-16QAM | M+H | Outer_Full | VN | NT | -14.780000 | -0.003751 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+80  | DFT-16QAM | M+H | Outer_Full | VH | NT | -22.150000 | -0.005622 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+100 | DFT-QPSK  | M+L | Outer_Full | VL | NT | 0.440000   | 0.000117  | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+100 | DFT-QPSK  | M+L | Outer_Full | VN | NT | -9.210000  | -0.002456 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+100 | DFT-QPSK  | M+L | Outer_Full | VH | NT | -0.110000  | -0.000029 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+100 | DFT-16QAM | M+L | Outer_Full | VL | NT | -9.880000  | -0.002635 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+100 | DFT-16QAM | M+L | Outer_Full | VN | NT | -6.890000  | -0.001837 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+100 | DFT-16QAM | M+L | Outer_Full | VH | NT | 0.290000   | 0.000077  | PASS |

|                               |    |       |           |     |            |    |    |            |           |      |
|-------------------------------|----|-------|-----------|-----|------------|----|----|------------|-----------|------|
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+100 | DFT-QPSK  | M+M | Outer_Full | VL | NT | -13.090000 | -0.003409 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+100 | DFT-QPSK  | M+M | Outer_Full | VN | NT | -17.840000 | -0.004646 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+100 | DFT-QPSK  | M+M | Outer_Full | VH | NT | -14.630000 | -0.003810 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+100 | DFT-16QAM | M+M | Outer_Full | VL | NT | -13.910000 | -0.003622 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+100 | DFT-16QAM | M+M | Outer_Full | VN | NT | -14.260000 | -0.003714 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+100 | DFT-16QAM | M+M | Outer_Full | VH | NT | -1.090000  | -0.000284 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+100 | DFT-QPSK  | M+H | Outer_Full | VL | NT | -2.110000  | -0.000537 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+100 | DFT-QPSK  | M+H | Outer_Full | VN | NT | -7.270000  | -0.001850 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+100 | DFT-QPSK  | M+H | Outer_Full | VH | NT | -6.770000  | -0.001723 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+100 | DFT-16QAM | M+H | Outer_Full | VL | NT | -12.190000 | -0.003102 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+100 | DFT-16QAM | M+H | Outer_Full | VN | NT | -11.280000 | -0.002870 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+100 | DFT-16QAM | M+H | Outer_Full | VH | NT | -11.190000 | -0.002847 | PASS |

#### Frequency Error VS. Temperature

| Band                          | SCS | Bandwidth | Modulation | Channel | RB Config  | Voltage | Temperature | Deviation(Hz) | Deviation (ppm) | Verdict |
|-------------------------------|-----|-----------|------------|---------|------------|---------|-------------|---------------|-----------------|---------|
| DC_12A<br>_n77A-3<br>700-3980 | 30  | 5+20      | DFT-QPSK   | M+L     | Outer_Full | NV      | -30         | -13.030000    | -0.003512       | PASS    |

|                               |    |      |           |     |            |    |     |            |           |      |
|-------------------------------|----|------|-----------|-----|------------|----|-----|------------|-----------|------|
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+20 | DFT-QPSK  | M+L | Outer_Full | NV | -20 | -0.750000  | -0.000202 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+20 | DFT-QPSK  | M+L | Outer_Full | NV | -10 | -10.050000 | -0.002709 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+20 | DFT-QPSK  | M+L | Outer_Full | NV | 0   | -11.500000 | -0.003100 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+20 | DFT-QPSK  | M+L | Outer_Full | NV | 10  | -16.300000 | -0.004394 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+20 | DFT-QPSK  | M+L | Outer_Full | NV | 20  | -5.340000  | -0.001439 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+20 | DFT-QPSK  | M+L | Outer_Full | NV | 30  | -6.570000  | -0.001771 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+20 | DFT-QPSK  | M+L | Outer_Full | NV | 40  | -4.550000  | -0.001226 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+20 | DFT-QPSK  | M+L | Outer_Full | NV | 50  | -9.950000  | -0.002682 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+20 | DFT-16QAM | M+L | Outer_Full | NV | -30 | -10.720000 | -0.002889 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+20 | DFT-16QAM | M+L | Outer_Full | NV | -20 | -13.380000 | -0.003606 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+20 | DFT-16QAM | M+L | Outer_Full | NV | -10 | -7.330000  | -0.001976 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+20 | DFT-16QAM | M+L | Outer_Full | NV | 0   | -8.680000  | -0.002340 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+20 | DFT-16QAM | M+L | Outer_Full | NV | 10  | -7.380000  | -0.001988 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+20 | DFT-16QAM | M+L | Outer_Full | NV | 20  | -6.700000  | -0.001806 | PASS |

|                               |    |      |           |     |            |    |     |            |           |      |
|-------------------------------|----|------|-----------|-----|------------|----|-----|------------|-----------|------|
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+20 | DFT-16QAM | M+L | Outer_Full | NV | 30  | -2.100000  | -0.000566 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+20 | DFT-16QAM | M+L | Outer_Full | NV | 40  | -12.980000 | -0.003499 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+20 | DFT-16QAM | M+L | Outer_Full | NV | 50  | -13.050000 | -0.003518 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+20 | DFT-QPSK  | M+M | Outer_Full | NV | -30 | -17.940000 | -0.004672 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+20 | DFT-QPSK  | M+M | Outer_Full | NV | -20 | -17.760000 | -0.004625 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+20 | DFT-QPSK  | M+M | Outer_Full | NV | -10 | -9.040000  | -0.002354 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+20 | DFT-QPSK  | M+M | Outer_Full | NV | 0   | -14.790000 | -0.003852 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+20 | DFT-QPSK  | M+M | Outer_Full | NV | 10  | -12.510000 | -0.003258 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+20 | DFT-QPSK  | M+M | Outer_Full | NV | 20  | -11.500000 | -0.002995 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+20 | DFT-QPSK  | M+M | Outer_Full | NV | 30  | -15.320000 | -0.003989 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+20 | DFT-QPSK  | M+M | Outer_Full | NV | 40  | -10.250000 | -0.002669 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+20 | DFT-QPSK  | M+M | Outer_Full | NV | 50  | -5.340000  | -0.001391 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+20 | DFT-16QAM | M+M | Outer_Full | NV | -30 | -16.480000 | -0.004292 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+20 | DFT-16QAM | M+M | Outer_Full | NV | -20 | -12.160000 | -0.003167 | PASS |

|                               |    |      |           |     |            |    |     |            |           |      |
|-------------------------------|----|------|-----------|-----|------------|----|-----|------------|-----------|------|
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+20 | DFT-16QAM | M+M | Outer_Full | NV | -10 | -11.270000 | -0.002935 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+20 | DFT-16QAM | M+M | Outer_Full | NV | 0   | -11.040000 | -0.002875 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+20 | DFT-16QAM | M+M | Outer_Full | NV | 10  | -5.050000  | -0.001315 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+20 | DFT-16QAM | M+M | Outer_Full | NV | 20  | -7.020000  | -0.001828 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+20 | DFT-16QAM | M+M | Outer_Full | NV | 30  | -8.279999  | -0.002156 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+20 | DFT-16QAM | M+M | Outer_Full | NV | 40  | -12.600000 | -0.003281 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+20 | DFT-16QAM | M+M | Outer_Full | NV | 50  | -7.080000  | -0.001844 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+20 | DFT-QPSK  | M+H | Outer_Full | NV | -30 | -14.860000 | -0.003743 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+20 | DFT-QPSK  | M+H | Outer_Full | NV | -20 | -10.640000 | -0.002680 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+20 | DFT-QPSK  | M+H | Outer_Full | NV | -10 | -15.500000 | -0.003904 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+20 | DFT-QPSK  | M+H | Outer_Full | NV | 0   | -13.880000 | -0.003496 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+20 | DFT-QPSK  | M+H | Outer_Full | NV | 10  | -8.480000  | -0.002136 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+20 | DFT-QPSK  | M+H | Outer_Full | NV | 20  | -2.180000  | -0.000549 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+20 | DFT-QPSK  | M+H | Outer_Full | NV | 30  | -14.540000 | -0.003662 | PASS |

|                               |    |      |           |     |            |    |     |            |           |      |
|-------------------------------|----|------|-----------|-----|------------|----|-----|------------|-----------|------|
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+20 | DFT-QPSK  | M+H | Outer_Full | NV | 40  | -10.270000 | -0.002587 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+20 | DFT-QPSK  | M+H | Outer_Full | NV | 50  | -14.960000 | -0.003768 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+20 | DFT-16QAM | M+H | Outer_Full | NV | -30 | -10.520000 | -0.002650 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+20 | DFT-16QAM | M+H | Outer_Full | NV | -20 | -15.280000 | -0.003849 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+20 | DFT-16QAM | M+H | Outer_Full | NV | -10 | -8.910000  | -0.002244 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+20 | DFT-16QAM | M+H | Outer_Full | NV | 0   | -10.120000 | -0.002549 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+20 | DFT-16QAM | M+H | Outer_Full | NV | 10  | -7.350000  | -0.001851 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+20 | DFT-16QAM | M+H | Outer_Full | NV | 20  | -14.990000 | -0.003776 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+20 | DFT-16QAM | M+H | Outer_Full | NV | 30  | -6.090000  | -0.001534 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+20 | DFT-16QAM | M+H | Outer_Full | NV | 40  | -4.740000  | -0.001194 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+20 | DFT-16QAM | M+H | Outer_Full | NV | 50  | -6.310000  | -0.001589 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+30 | DFT-QPSK  | M+L | Outer_Full | NV | -30 | -7.870000  | -0.002118 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+30 | DFT-QPSK  | M+L | Outer_Full | NV | -20 | -9.790000  | -0.002635 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+30 | DFT-QPSK  | M+L | Outer_Full | NV | -10 | -16.160000 | -0.004350 | PASS |

|                               |    |      |           |     |            |    |     |            |           |      |
|-------------------------------|----|------|-----------|-----|------------|----|-----|------------|-----------|------|
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+30 | DFT-QPSK  | M+L | Outer_Full | NV | 0   | -8.500000  | -0.002288 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+30 | DFT-QPSK  | M+L | Outer_Full | NV | 10  | -11.640000 | -0.003133 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+30 | DFT-QPSK  | M+L | Outer_Full | NV | 20  | -16.079999 | -0.004328 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+30 | DFT-QPSK  | M+L | Outer_Full | NV | 30  | -12.080000 | -0.003252 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+30 | DFT-QPSK  | M+L | Outer_Full | NV | 40  | -6.360000  | -0.001712 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+30 | DFT-QPSK  | M+L | Outer_Full | NV | 50  | -15.430000 | -0.004153 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+30 | DFT-16QAM | M+L | Outer_Full | NV | -30 | -7.380000  | -0.001987 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+30 | DFT-16QAM | M+L | Outer_Full | NV | -20 | -19.660000 | -0.005292 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+30 | DFT-16QAM | M+L | Outer_Full | NV | -10 | -3.190000  | -0.000859 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+30 | DFT-16QAM | M+L | Outer_Full | NV | 0   | -3.950000  | -0.001063 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+30 | DFT-16QAM | M+L | Outer_Full | NV | 10  | -10.330000 | -0.002781 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+30 | DFT-16QAM | M+L | Outer_Full | NV | 20  | -11.160000 | -0.003004 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+30 | DFT-16QAM | M+L | Outer_Full | NV | 30  | -6.060000  | -0.001631 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+30 | DFT-16QAM | M+L | Outer_Full | NV | 40  | -8.320000  | -0.002240 | PASS |

|                               |    |      |           |     |            |    |     |            |           |      |
|-------------------------------|----|------|-----------|-----|------------|----|-----|------------|-----------|------|
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+30 | DFT-16QAM | M+L | Outer_Full | NV | 50  | -12.320000 | -0.003316 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+30 | DFT-QPSK  | M+M | Outer_Full | NV | -30 | -10.460000 | -0.002724 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+30 | DFT-QPSK  | M+M | Outer_Full | NV | -20 | -10.040000 | -0.002615 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+30 | DFT-QPSK  | M+M | Outer_Full | NV | -10 | -11.590000 | -0.003018 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+30 | DFT-QPSK  | M+M | Outer_Full | NV | 0   | -8.550000  | -0.002227 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+30 | DFT-QPSK  | M+M | Outer_Full | NV | 10  | -14.840000 | -0.003865 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+30 | DFT-QPSK  | M+M | Outer_Full | NV | 20  | -17.770000 | -0.004628 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+30 | DFT-QPSK  | M+M | Outer_Full | NV | 30  | -8.670000  | -0.002258 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+30 | DFT-QPSK  | M+M | Outer_Full | NV | 40  | -15.630000 | -0.004070 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+30 | DFT-QPSK  | M+M | Outer_Full | NV | 50  | -11.600000 | -0.003021 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+30 | DFT-16QAM | M+M | Outer_Full | NV | -30 | -8.010000  | -0.002086 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+30 | DFT-16QAM | M+M | Outer_Full | NV | -20 | -13.540000 | -0.003526 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+30 | DFT-16QAM | M+M | Outer_Full | NV | -10 | -12.780000 | -0.003328 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+30 | DFT-16QAM | M+M | Outer_Full | NV | 0   | -8.050000  | -0.002096 | PASS |

|                               |    |      |           |     |            |    |     |            |           |      |
|-------------------------------|----|------|-----------|-----|------------|----|-----|------------|-----------|------|
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+30 | DFT-16QAM | M+M | Outer_Full | NV | 10  | -8.400000  | -0.002188 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+30 | DFT-16QAM | M+M | Outer_Full | NV | 20  | -4.250000  | -0.001107 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+30 | DFT-16QAM | M+M | Outer_Full | NV | 30  | -11.870000 | -0.003091 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+30 | DFT-16QAM | M+M | Outer_Full | NV | 40  | -14.410000 | -0.003753 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+30 | DFT-16QAM | M+M | Outer_Full | NV | 50  | -19.360000 | -0.005042 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+30 | DFT-QPSK  | M+H | Outer_Full | NV | -30 | -19.300000 | -0.004868 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+30 | DFT-QPSK  | M+H | Outer_Full | NV | -20 | -11.580000 | -0.002921 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+30 | DFT-QPSK  | M+H | Outer_Full | NV | -10 | -14.650000 | -0.003695 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+30 | DFT-QPSK  | M+H | Outer_Full | NV | 0   | -11.270000 | -0.002842 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+30 | DFT-QPSK  | M+H | Outer_Full | NV | 10  | -14.010000 | -0.003533 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+30 | DFT-QPSK  | M+H | Outer_Full | NV | 20  | -9.320000  | -0.002351 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+30 | DFT-QPSK  | M+H | Outer_Full | NV | 30  | -10.290000 | -0.002595 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+30 | DFT-QPSK  | M+H | Outer_Full | NV | 40  | -5.570000  | -0.001405 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+30 | DFT-QPSK  | M+H | Outer_Full | NV | 50  | -20.920000 | -0.005276 | PASS |

|                               |    |      |           |     |            |    |     |            |           |      |
|-------------------------------|----|------|-----------|-----|------------|----|-----|------------|-----------|------|
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+30 | DFT-16QAM | M+H | Outer_Full | NV | -30 | -11.810000 | -0.002979 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+30 | DFT-16QAM | M+H | Outer_Full | NV | -20 | -9.910000  | -0.002499 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+30 | DFT-16QAM | M+H | Outer_Full | NV | -10 | -8.950000  | -0.002257 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+30 | DFT-16QAM | M+H | Outer_Full | NV | 0   | -6.980000  | -0.001760 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+30 | DFT-16QAM | M+H | Outer_Full | NV | 10  | -8.700000  | -0.002194 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+30 | DFT-16QAM | M+H | Outer_Full | NV | 20  | -12.490000 | -0.003150 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+30 | DFT-16QAM | M+H | Outer_Full | NV | 30  | -22.200000 | -0.005599 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+30 | DFT-16QAM | M+H | Outer_Full | NV | 40  | -9.410000  | -0.002373 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+30 | DFT-16QAM | M+H | Outer_Full | NV | 50  | -9.660000  | -0.002436 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+40 | DFT-QPSK  | M+L | Outer_Full | NV | -30 | -5.400000  | -0.001452 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+40 | DFT-QPSK  | M+L | Outer_Full | NV | -20 | -6.260000  | -0.001683 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+40 | DFT-QPSK  | M+L | Outer_Full | NV | -10 | -8.750000  | -0.002352 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+40 | DFT-QPSK  | M+L | Outer_Full | NV | 0   | 2.040000   | 0.000548  | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+40 | DFT-QPSK  | M+L | Outer_Full | NV | 10  | -11.520000 | -0.003097 | PASS |

|                               |    |      |           |     |            |    |     |            |           |      |
|-------------------------------|----|------|-----------|-----|------------|----|-----|------------|-----------|------|
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+40 | DFT-QPSK  | M+L | Outer_Full | NV | 20  | -5.120000  | -0.001376 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+40 | DFT-QPSK  | M+L | Outer_Full | NV | 30  | 0.140000   | 0.000038  | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+40 | DFT-QPSK  | M+L | Outer_Full | NV | 40  | -0.570000  | -0.000153 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+40 | DFT-QPSK  | M+L | Outer_Full | NV | 50  | -0.960000  | -0.000258 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+40 | DFT-16QAM | M+L | Outer_Full | NV | -30 | -5.340000  | -0.001435 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+40 | DFT-16QAM | M+L | Outer_Full | NV | -20 | -4.000000  | -0.001075 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+40 | DFT-16QAM | M+L | Outer_Full | NV | -10 | -11.090000 | -0.002981 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+40 | DFT-16QAM | M+L | Outer_Full | NV | 0   | 0.100000   | 0.000027  | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+40 | DFT-16QAM | M+L | Outer_Full | NV | 10  | -5.170000  | -0.001390 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+40 | DFT-16QAM | M+L | Outer_Full | NV | 20  | -8.890000  | -0.002390 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+40 | DFT-16QAM | M+L | Outer_Full | NV | 30  | -7.510000  | -0.002019 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+40 | DFT-16QAM | M+L | Outer_Full | NV | 40  | -2.460000  | -0.000661 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+40 | DFT-16QAM | M+L | Outer_Full | NV | 50  | -5.240000  | -0.001409 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+40 | DFT-QPSK  | M+M | Outer_Full | NV | -30 | -10.440000 | -0.002719 | PASS |

|                               |    |      |           |     |            |    |     |            |           |      |
|-------------------------------|----|------|-----------|-----|------------|----|-----|------------|-----------|------|
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+40 | DFT-QPSK  | M+M | Outer_Full | NV | -20 | -13.330000 | -0.003471 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+40 | DFT-QPSK  | M+M | Outer_Full | NV | -10 | -10.010000 | -0.002607 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+40 | DFT-QPSK  | M+M | Outer_Full | NV | 0   | -13.060000 | -0.003401 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+40 | DFT-QPSK  | M+M | Outer_Full | NV | 10  | -5.930000  | -0.001544 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+40 | DFT-QPSK  | M+M | Outer_Full | NV | 20  | -9.550000  | -0.002487 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+40 | DFT-QPSK  | M+M | Outer_Full | NV | 30  | -7.330000  | -0.001909 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+40 | DFT-QPSK  | M+M | Outer_Full | NV | 40  | -13.360000 | -0.003479 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+40 | DFT-QPSK  | M+M | Outer_Full | NV | 50  | -14.200000 | -0.003698 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+40 | DFT-16QAM | M+M | Outer_Full | NV | -30 | -6.490000  | -0.001690 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+40 | DFT-16QAM | M+M | Outer_Full | NV | -20 | -16.290000 | -0.004242 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+40 | DFT-16QAM | M+M | Outer_Full | NV | -10 | -10.540000 | -0.002745 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+40 | DFT-16QAM | M+M | Outer_Full | NV | 0   | -6.130000  | -0.001596 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+40 | DFT-16QAM | M+M | Outer_Full | NV | 10  | -11.990000 | -0.003122 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+40 | DFT-16QAM | M+M | Outer_Full | NV | 20  | -13.340000 | -0.003474 | PASS |

|                               |    |      |           |     |            |    |     |            |           |      |
|-------------------------------|----|------|-----------|-----|------------|----|-----|------------|-----------|------|
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+40 | DFT-16QAM | M+M | Outer_Full | NV | 30  | -13.040000 | -0.003396 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+40 | DFT-16QAM | M+M | Outer_Full | NV | 40  | -9.250000  | -0.002409 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+40 | DFT-16QAM | M+M | Outer_Full | NV | 50  | -9.200000  | -0.002396 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+40 | DFT-QPSK  | M+H | Outer_Full | NV | -30 | -1.890000  | -0.000477 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+40 | DFT-QPSK  | M+H | Outer_Full | NV | -20 | -2.510000  | -0.000634 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+40 | DFT-QPSK  | M+H | Outer_Full | NV | -10 | -13.680000 | -0.003455 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+40 | DFT-QPSK  | M+H | Outer_Full | NV | 0   | -17.470000 | -0.004412 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+40 | DFT-QPSK  | M+H | Outer_Full | NV | 10  | -10.820000 | -0.002732 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+40 | DFT-QPSK  | M+H | Outer_Full | NV | 20  | -3.930000  | -0.000992 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+40 | DFT-QPSK  | M+H | Outer_Full | NV | 30  | -14.950000 | -0.003775 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+40 | DFT-QPSK  | M+H | Outer_Full | NV | 40  | -17.520000 | -0.004424 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+40 | DFT-QPSK  | M+H | Outer_Full | NV | 50  | -22.610000 | -0.005710 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+40 | DFT-16QAM | M+H | Outer_Full | NV | -30 | -5.540000  | -0.001399 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+40 | DFT-16QAM | M+H | Outer_Full | NV | -20 | -11.930000 | -0.003013 | PASS |

|                               |    |      |           |     |            |    |     |            |           |      |
|-------------------------------|----|------|-----------|-----|------------|----|-----|------------|-----------|------|
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+40 | DFT-16QAM | M+H | Outer_Full | NV | -10 | -10.470000 | -0.002644 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+40 | DFT-16QAM | M+H | Outer_Full | NV | 0   | -8.500000  | -0.002146 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+40 | DFT-16QAM | M+H | Outer_Full | NV | 10  | -10.330000 | -0.002609 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+40 | DFT-16QAM | M+H | Outer_Full | NV | 20  | -10.630000 | -0.002684 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+40 | DFT-16QAM | M+H | Outer_Full | NV | 30  | -11.800000 | -0.002980 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+40 | DFT-16QAM | M+H | Outer_Full | NV | 40  | 0.610000   | 0.000154  | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+40 | DFT-16QAM | M+H | Outer_Full | NV | 50  | -17.160000 | -0.004333 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+60 | DFT-QPSK  | M+L | Outer_Full | NV | -30 | -10.810000 | -0.002898 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+60 | DFT-QPSK  | M+L | Outer_Full | NV | -20 | -5.590000  | -0.001499 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+60 | DFT-QPSK  | M+L | Outer_Full | NV | -10 | -7.470000  | -0.002003 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+60 | DFT-QPSK  | M+L | Outer_Full | NV | 0   | -11.770000 | -0.003155 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+60 | DFT-QPSK  | M+L | Outer_Full | NV | 10  | -6.080000  | -0.001630 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+60 | DFT-QPSK  | M+L | Outer_Full | NV | 20  | -10.100000 | -0.002708 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+60 | DFT-QPSK  | M+L | Outer_Full | NV | 30  | -9.170000  | -0.002458 | PASS |

|                               |    |      |           |     |            |    |     |            |           |      |
|-------------------------------|----|------|-----------|-----|------------|----|-----|------------|-----------|------|
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+60 | DFT-QPSK  | M+L | Outer_Full | NV | 40  | -8.980000  | -0.002407 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+60 | DFT-QPSK  | M+L | Outer_Full | NV | 50  | -6.940000  | -0.001861 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+60 | DFT-16QAM | M+L | Outer_Full | NV | -30 | -1.430000  | -0.000383 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+60 | DFT-16QAM | M+L | Outer_Full | NV | -20 | -4.170000  | -0.001118 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+60 | DFT-16QAM | M+L | Outer_Full | NV | -10 | -8.279999  | -0.002220 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+60 | DFT-16QAM | M+L | Outer_Full | NV | 0   | -10.170000 | -0.002727 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+60 | DFT-16QAM | M+L | Outer_Full | NV | 10  | -10.090000 | -0.002705 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+60 | DFT-16QAM | M+L | Outer_Full | NV | 20  | -2.310000  | -0.000619 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+60 | DFT-16QAM | M+L | Outer_Full | NV | 30  | -13.590000 | -0.003643 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+60 | DFT-16QAM | M+L | Outer_Full | NV | 40  | 5.740000   | 0.001539  | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+60 | DFT-16QAM | M+L | Outer_Full | NV | 50  | -4.240000  | -0.001137 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+60 | DFT-QPSK  | M+M | Outer_Full | NV | -30 | -5.700000  | -0.001484 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+60 | DFT-QPSK  | M+M | Outer_Full | NV | -20 | -10.900000 | -0.002839 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+60 | DFT-QPSK  | M+M | Outer_Full | NV | -10 | 1.240000   | 0.000323  | PASS |

|                               |    |      |           |     |            |    |     |            |           |      |
|-------------------------------|----|------|-----------|-----|------------|----|-----|------------|-----------|------|
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+60 | DFT-QPSK  | M+M | Outer_Full | NV | 0   | -7.670000  | -0.001997 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+60 | DFT-QPSK  | M+M | Outer_Full | NV | 10  | -10.280000 | -0.002677 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+60 | DFT-QPSK  | M+M | Outer_Full | NV | 20  | -12.180000 | -0.003172 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+60 | DFT-QPSK  | M+M | Outer_Full | NV | 30  | -12.150000 | -0.003164 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+60 | DFT-QPSK  | M+M | Outer_Full | NV | 40  | -7.740000  | -0.002016 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+60 | DFT-QPSK  | M+M | Outer_Full | NV | 50  | -11.090000 | -0.002888 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+60 | DFT-16QAM | M+M | Outer_Full | NV | -30 | -5.430000  | -0.001414 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+60 | DFT-16QAM | M+M | Outer_Full | NV | -20 | -12.590000 | -0.003279 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+60 | DFT-16QAM | M+M | Outer_Full | NV | -10 | -20.430000 | -0.005320 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+60 | DFT-16QAM | M+M | Outer_Full | NV | 0   | -9.580000  | -0.002495 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+60 | DFT-16QAM | M+M | Outer_Full | NV | 10  | -7.310000  | -0.001904 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+60 | DFT-16QAM | M+M | Outer_Full | NV | 20  | -13.660000 | -0.003557 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+60 | DFT-16QAM | M+M | Outer_Full | NV | 30  | -6.490000  | -0.001690 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+60 | DFT-16QAM | M+M | Outer_Full | NV | 40  | -7.510000  | -0.001955 | PASS |

|                               |    |      |           |     |            |    |     |            |           |      |
|-------------------------------|----|------|-----------|-----|------------|----|-----|------------|-----------|------|
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+60 | DFT-16QAM | M+M | Outer_Full | NV | 50  | -19.280000 | -0.005021 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+60 | DFT-QPSK  | M+H | Outer_Full | NV | -30 | -6.280000  | -0.001590 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+60 | DFT-QPSK  | M+H | Outer_Full | NV | -20 | -12.760000 | -0.003230 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+60 | DFT-QPSK  | M+H | Outer_Full | NV | -10 | -1.060000  | -0.000268 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+60 | DFT-QPSK  | M+H | Outer_Full | NV | 0   | -9.280000  | -0.002349 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+60 | DFT-QPSK  | M+H | Outer_Full | NV | 10  | -13.590000 | -0.003441 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+60 | DFT-QPSK  | M+H | Outer_Full | NV | 20  | -12.940000 | -0.003276 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+60 | DFT-QPSK  | M+H | Outer_Full | NV | 30  | -8.760000  | -0.002218 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+60 | DFT-QPSK  | M+H | Outer_Full | NV | 40  | -1.240000  | -0.000314 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+60 | DFT-QPSK  | M+H | Outer_Full | NV | 50  | -9.920000  | -0.002511 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+60 | DFT-16QAM | M+H | Outer_Full | NV | -30 | -5.650000  | -0.001430 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+60 | DFT-16QAM | M+H | Outer_Full | NV | -20 | -11.870000 | -0.003005 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+60 | DFT-16QAM | M+H | Outer_Full | NV | -10 | -4.179999  | -0.001058 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+60 | DFT-16QAM | M+H | Outer_Full | NV | 0   | -5.520000  | -0.001397 | PASS |

|                               |    |      |           |     |            |    |     |            |           |      |
|-------------------------------|----|------|-----------|-----|------------|----|-----|------------|-----------|------|
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+60 | DFT-16QAM | M+H | Outer_Full | NV | 10  | -7.820000  | -0.001980 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+60 | DFT-16QAM | M+H | Outer_Full | NV | 20  | -6.670000  | -0.001689 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+60 | DFT-16QAM | M+H | Outer_Full | NV | 30  | -6.430000  | -0.001628 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+60 | DFT-16QAM | M+H | Outer_Full | NV | 40  | -11.220000 | -0.002841 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+60 | DFT-16QAM | M+H | Outer_Full | NV | 50  | -10.270000 | -0.002600 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+80 | DFT-QPSK  | M+L | Outer_Full | NV | -30 | -7.960000  | -0.002128 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+80 | DFT-QPSK  | M+L | Outer_Full | NV | -20 | -23.270000 | -0.006222 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+80 | DFT-QPSK  | M+L | Outer_Full | NV | -10 | -18.420000 | -0.004925 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+80 | DFT-QPSK  | M+L | Outer_Full | NV | 0   | -11.920000 | -0.003187 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+80 | DFT-QPSK  | M+L | Outer_Full | NV | 10  | -3.610000  | -0.000965 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+80 | DFT-QPSK  | M+L | Outer_Full | NV | 20  | 2.240000   | 0.000599  | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+80 | DFT-QPSK  | M+L | Outer_Full | NV | 30  | -3.640000  | -0.000973 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+80 | DFT-QPSK  | M+L | Outer_Full | NV | 40  | -16.399999 | -0.004385 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+80 | DFT-QPSK  | M+L | Outer_Full | NV | 50  | -5.290000  | -0.001414 | PASS |

|                               |    |      |           |     |            |    |     |            |           |      |
|-------------------------------|----|------|-----------|-----|------------|----|-----|------------|-----------|------|
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+80 | DFT-16QAM | M+L | Outer_Full | NV | -30 | -8.220000  | -0.002198 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+80 | DFT-16QAM | M+L | Outer_Full | NV | -20 | -5.910000  | -0.001580 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+80 | DFT-16QAM | M+L | Outer_Full | NV | -10 | -14.230000 | -0.003805 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+80 | DFT-16QAM | M+L | Outer_Full | NV | 0   | -14.430000 | -0.003858 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+80 | DFT-16QAM | M+L | Outer_Full | NV | 10  | -8.010000  | -0.002142 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+80 | DFT-16QAM | M+L | Outer_Full | NV | 20  | -15.260000 | -0.004080 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+80 | DFT-16QAM | M+L | Outer_Full | NV | 30  | -7.820000  | -0.002091 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+80 | DFT-16QAM | M+L | Outer_Full | NV | 40  | -11.090000 | -0.002965 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+80 | DFT-16QAM | M+L | Outer_Full | NV | 50  | -4.460000  | -0.001193 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+80 | DFT-QPSK  | M+M | Outer_Full | NV | -30 | -13.400000 | -0.003490 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+80 | DFT-QPSK  | M+M | Outer_Full | NV | -20 | -8.810000  | -0.002294 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+80 | DFT-QPSK  | M+M | Outer_Full | NV | -10 | -14.200000 | -0.003698 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+80 | DFT-QPSK  | M+M | Outer_Full | NV | 0   | -9.830000  | -0.002560 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+80 | DFT-QPSK  | M+M | Outer_Full | NV | 10  | -7.690000  | -0.002003 | PASS |

|                               |    |      |           |     |            |    |     |            |           |      |
|-------------------------------|----|------|-----------|-----|------------|----|-----|------------|-----------|------|
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+80 | DFT-QPSK  | M+M | Outer_Full | NV | 20  | -14.450000 | -0.003763 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+80 | DFT-QPSK  | M+M | Outer_Full | NV | 30  | -13.510000 | -0.003518 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+80 | DFT-QPSK  | M+M | Outer_Full | NV | 40  | -12.600000 | -0.003281 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+80 | DFT-QPSK  | M+M | Outer_Full | NV | 50  | -11.280000 | -0.002938 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+80 | DFT-16QAM | M+M | Outer_Full | NV | -30 | -2.810000  | -0.000732 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+80 | DFT-16QAM | M+M | Outer_Full | NV | -20 | -15.170000 | -0.003950 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+80 | DFT-16QAM | M+M | Outer_Full | NV | -10 | -19.140000 | -0.004984 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+80 | DFT-16QAM | M+M | Outer_Full | NV | 0   | -10.510000 | -0.002737 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+80 | DFT-16QAM | M+M | Outer_Full | NV | 10  | -15.880000 | -0.004135 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+80 | DFT-16QAM | M+M | Outer_Full | NV | 20  | -14.780000 | -0.003849 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+80 | DFT-16QAM | M+M | Outer_Full | NV | 30  | -6.270000  | -0.001633 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+80 | DFT-16QAM | M+M | Outer_Full | NV | 40  | -8.730000  | -0.002273 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+80 | DFT-16QAM | M+M | Outer_Full | NV | 50  | -15.110000 | -0.003935 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+80 | DFT-QPSK  | M+H | Outer_Full | NV | -30 | -11.510000 | -0.002921 | PASS |

|                               |    |      |           |     |            |    |     |            |           |      |
|-------------------------------|----|------|-----------|-----|------------|----|-----|------------|-----------|------|
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+80 | DFT-QPSK  | M+H | Outer_Full | NV | -20 | -3.260000  | -0.000827 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+80 | DFT-QPSK  | M+H | Outer_Full | NV | -10 | -10.740000 | -0.002726 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+80 | DFT-QPSK  | M+H | Outer_Full | NV | 0   | -9.900000  | -0.002513 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+80 | DFT-QPSK  | M+H | Outer_Full | NV | 10  | -15.290000 | -0.003881 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+80 | DFT-QPSK  | M+H | Outer_Full | NV | 20  | -12.800000 | -0.003249 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+80 | DFT-QPSK  | M+H | Outer_Full | NV | 30  | -10.810000 | -0.002744 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+80 | DFT-QPSK  | M+H | Outer_Full | NV | 40  | -15.160000 | -0.003848 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+80 | DFT-QPSK  | M+H | Outer_Full | NV | 50  | -9.490000  | -0.002409 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+80 | DFT-16QAM | M+H | Outer_Full | NV | -30 | -12.010000 | -0.003048 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+80 | DFT-16QAM | M+H | Outer_Full | NV | -20 | -13.450000 | -0.003414 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+80 | DFT-16QAM | M+H | Outer_Full | NV | -10 | -13.090000 | -0.003322 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+80 | DFT-16QAM | M+H | Outer_Full | NV | 0   | -17.830000 | -0.004525 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+80 | DFT-16QAM | M+H | Outer_Full | NV | 10  | -14.750000 | -0.003744 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+80 | DFT-16QAM | M+H | Outer_Full | NV | 20  | -13.850000 | -0.003515 | PASS |

|                               |    |       |           |     |            |    |     |            |           |      |
|-------------------------------|----|-------|-----------|-----|------------|----|-----|------------|-----------|------|
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+80  | DFT-16QAM | M+H | Outer_Full | NV | 30  | -10.090000 | -0.002561 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+80  | DFT-16QAM | M+H | Outer_Full | NV | 40  | -14.360000 | -0.003645 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+80  | DFT-16QAM | M+H | Outer_Full | NV | 50  | -17.610000 | -0.004470 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+100 | DFT-QPSK  | M+L | Outer_Full | NV | -30 | -4.120000  | -0.001099 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+100 | DFT-QPSK  | M+L | Outer_Full | NV | -20 | -1.730000  | -0.000461 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+100 | DFT-QPSK  | M+L | Outer_Full | NV | -10 | 0.030000   | 0.000008  | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+100 | DFT-QPSK  | M+L | Outer_Full | NV | 0   | -1.330000  | -0.000355 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+100 | DFT-QPSK  | M+L | Outer_Full | NV | 10  | -5.040000  | -0.001344 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+100 | DFT-QPSK  | M+L | Outer_Full | NV | 20  | -3.190000  | -0.000851 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+100 | DFT-QPSK  | M+L | Outer_Full | NV | 30  | 2.230000   | 0.000595  | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+100 | DFT-QPSK  | M+L | Outer_Full | NV | 40  | -1.730000  | -0.000461 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+100 | DFT-QPSK  | M+L | Outer_Full | NV | 50  | 3.360000   | 0.000896  | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+100 | DFT-16QAM | M+L | Outer_Full | NV | -30 | -2.920000  | -0.000779 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+100 | DFT-16QAM | M+L | Outer_Full | NV | -20 | 0.970000   | 0.000259  | PASS |

|                               |    |       |           |     |            |    |     |            |           |      |
|-------------------------------|----|-------|-----------|-----|------------|----|-----|------------|-----------|------|
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+100 | DFT-16QAM | M+L | Outer_Full | NV | -10 | 3.930000   | 0.001048  | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+100 | DFT-16QAM | M+L | Outer_Full | NV | 0   | -11.770000 | -0.003139 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+100 | DFT-16QAM | M+L | Outer_Full | NV | 10  | -8.540000  | -0.002277 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+100 | DFT-16QAM | M+L | Outer_Full | NV | 20  | -3.350000  | -0.000893 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+100 | DFT-16QAM | M+L | Outer_Full | NV | 30  | -4.510000  | -0.001203 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+100 | DFT-16QAM | M+L | Outer_Full | NV | 40  | -3.190000  | -0.000851 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+100 | DFT-16QAM | M+L | Outer_Full | NV | 50  | -2.680000  | -0.000715 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+100 | DFT-QPSK  | M+M | Outer_Full | NV | -30 | -19.090000 | -0.004971 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+100 | DFT-QPSK  | M+M | Outer_Full | NV | -20 | -16.160000 | -0.004208 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+100 | DFT-QPSK  | M+M | Outer_Full | NV | -10 | -14.940000 | -0.003891 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+100 | DFT-QPSK  | M+M | Outer_Full | NV | 0   | -16.100000 | -0.004193 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+100 | DFT-QPSK  | M+M | Outer_Full | NV | 10  | -4.120000  | -0.001073 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+100 | DFT-QPSK  | M+M | Outer_Full | NV | 20  | -12.100000 | -0.003151 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+100 | DFT-QPSK  | M+M | Outer_Full | NV | 30  | -18.200000 | -0.004740 | PASS |

|                               |    |       |           |     |            |    |     |            |           |      |
|-------------------------------|----|-------|-----------|-----|------------|----|-----|------------|-----------|------|
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+100 | DFT-QPSK  | M+M | Outer_Full | NV | 40  | -15.210000 | -0.003961 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+100 | DFT-QPSK  | M+M | Outer_Full | NV | 50  | -8.880000  | -0.002313 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+100 | DFT-16QAM | M+M | Outer_Full | NV | -30 | -14.820000 | -0.003859 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+100 | DFT-16QAM | M+M | Outer_Full | NV | -20 | -12.340000 | -0.003214 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+100 | DFT-16QAM | M+M | Outer_Full | NV | -10 | -8.430000  | -0.002195 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+100 | DFT-16QAM | M+M | Outer_Full | NV | 0   | -14.910000 | -0.003883 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+100 | DFT-16QAM | M+M | Outer_Full | NV | 10  | -8.670000  | -0.002258 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+100 | DFT-16QAM | M+M | Outer_Full | NV | 20  | -13.010000 | -0.003388 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+100 | DFT-16QAM | M+M | Outer_Full | NV | 30  | -7.170000  | -0.001867 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+100 | DFT-16QAM | M+M | Outer_Full | NV | 40  | -7.450000  | -0.001940 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+100 | DFT-16QAM | M+M | Outer_Full | NV | 50  | -10.970000 | -0.002857 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+100 | DFT-QPSK  | M+H | Outer_Full | NV | -30 | -17.340000 | -0.004412 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+100 | DFT-QPSK  | M+H | Outer_Full | NV | -20 | -2.660000  | -0.000677 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+100 | DFT-QPSK  | M+H | Outer_Full | NV | -10 | -12.870000 | -0.003275 | PASS |

|                               |    |       |           |     |            |    |     |            |           |      |
|-------------------------------|----|-------|-----------|-----|------------|----|-----|------------|-----------|------|
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+100 | DFT-QPSK  | M+H | Outer_Full | NV | 0   | -14.620000 | -0.003720 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+100 | DFT-QPSK  | M+H | Outer_Full | NV | 10  | -10.510000 | -0.002674 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+100 | DFT-QPSK  | M+H | Outer_Full | NV | 20  | -11.300000 | -0.002875 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+100 | DFT-QPSK  | M+H | Outer_Full | NV | 30  | -14.700000 | -0.003740 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+100 | DFT-QPSK  | M+H | Outer_Full | NV | 40  | -13.150000 | -0.003346 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+100 | DFT-QPSK  | M+H | Outer_Full | NV | 50  | -11.610000 | -0.002954 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+100 | DFT-16QAM | M+H | Outer_Full | NV | -30 | -3.650000  | -0.000929 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+100 | DFT-16QAM | M+H | Outer_Full | NV | -20 | -9.750000  | -0.002481 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+100 | DFT-16QAM | M+H | Outer_Full | NV | -10 | -7.520000  | -0.001913 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+100 | DFT-16QAM | M+H | Outer_Full | NV | 0   | -12.270000 | -0.003122 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+100 | DFT-16QAM | M+H | Outer_Full | NV | 10  | -9.510000  | -0.002420 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+100 | DFT-16QAM | M+H | Outer_Full | NV | 20  | -11.630000 | -0.002959 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+100 | DFT-16QAM | M+H | Outer_Full | NV | 30  | -3.720000  | -0.000947 | PASS |
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+100 | DFT-16QAM | M+H | Outer_Full | NV | 40  | -14.880000 | -0.003786 | PASS |

|                               |    |       |           |     |            |    |    |           |           |      |
|-------------------------------|----|-------|-----------|-----|------------|----|----|-----------|-----------|------|
| DC_12A<br>_n77A-3<br>700-3980 | 30 | 5+100 | DFT-16QAM | M+H | Outer_Full | NV | 50 | -6.510000 | -0.001656 | PASS |
|-------------------------------|----|-------|-----------|-----|------------|----|----|-----------|-----------|------|