

## Appendix A : Test Result - n77- n78 - (3.45G)

### 1. Conducted Output Power

| Band           | SCS<br>(kHz) | Bandwidth<br>(MHz) | UL<br>Channel | RB<br>Allocation | Modulation | Power<br>(dBm) | GT -<br>Lc<br>(dB) | EIRP<br>(dBm) | EIRP<br>(mW) | EIRP<br>Limit<br>(mW) | Verdict |
|----------------|--------------|--------------------|---------------|------------------|------------|----------------|--------------------|---------------|--------------|-----------------------|---------|
| n77(3450-3550) | 30           | 10                 | 630334        | 24@0             | DFT_BPSK   | 23.82          | -2.25              | 21.57         | 143.55       | 1000                  | PASS    |
| n77(3450-3550) | 30           | 10                 | 630334        | 12@6             | DFT_BPSK   | 24.32          | -2.25              | 22.07         | 161.06       | 1000                  | PASS    |
| n77(3450-3550) | 30           | 10                 | 630334        | 1@1              | DFT_BPSK   | 24.21          | -2.25              | 21.96         | 157.04       | 1000                  | PASS    |
| n77(3450-3550) | 30           | 10                 | 630334        | 1@22             | DFT_BPSK   | 24.20          | -2.25              | 21.95         | 156.68       | 1000                  | PASS    |
| n77(3450-3550) | 30           | 10                 | 630334        | 24@0             | DFT_QPSK   | 23.36          | -2.25              | 21.11         | 129.12       | 1000                  | PASS    |
| n77(3450-3550) | 30           | 10                 | 630334        | 12@6             | DFT_QPSK   | 24.35          | -2.25              | 22.10         | 162.18       | 1000                  | PASS    |
| n77(3450-3550) | 30           | 10                 | 630334        | 1@1              | DFT_QPSK   | 24.20          | -2.25              | 21.95         | 156.68       | 1000                  | PASS    |
| n77(3450-3550) | 30           | 10                 | 630334        | 1@22             | DFT_QPSK   | 24.16          | -2.25              | 21.91         | 155.24       | 1000                  | PASS    |
| n77(3450-3550) | 30           | 10                 | 630334        | 24@0             | DFT_16QAM  | 22.37          | -2.25              | 20.12         | 102.80       | 1000                  | PASS    |
| n77(3450-3550) | 30           | 10                 | 630334        | 12@6             | DFT_16QAM  | 23.36          | -2.25              | 21.11         | 129.12       | 1000                  | PASS    |
| n77(3450-3550) | 30           | 10                 | 630334        | 1@1              | DFT_16QAM  | 23.29          | -2.25              | 21.04         | 127.06       | 1000                  | PASS    |
| n77(3450-3550) | 30           | 10                 | 630334        | 1@22             | DFT_16QAM  | 23.25          | -2.25              | 21.00         | 125.89       | 1000                  | PASS    |
| n77(3450-3550) | 30           | 10                 | 630334        | 24@0             | DFT_64QAM  | 21.83          | -2.25              | 19.58         | 90.78        | 1000                  | PASS    |
| n77(3450-3550) | 30           | 10                 | 630334        | 12@6             | DFT_64QAM  | 21.83          | -2.25              | 19.58         | 90.78        | 1000                  | PASS    |
| n77(3450-3550) | 30           | 10                 | 630334        | 1@1              | DFT_64QAM  | 21.57          | -2.25              | 19.32         | 85.51        | 1000                  | PASS    |
| n77(3450-3550) | 30           | 10                 | 630334        | 1@22             | DFT_64QAM  | 21.57          | -2.25              | 19.32         | 85.51        | 1000                  | PASS    |
| n77(3450-3550) | 30           | 10                 | 630334        | 24@0             | DFT_256QAM | 19.92          | -2.25              | 17.67         | 58.48        | 1000                  | PASS    |
| n77(3450-3550) | 30           | 10                 | 630334        | 12@6             | DFT_256QAM | 19.95          | -2.25              | 17.70         | 58.88        | 1000                  | PASS    |
| n77(3450-3550) | 30           | 10                 | 630334        | 1@1              | DFT_256QAM | 20.07          | -2.25              | 17.82         | 60.53        | 1000                  | PASS    |
| n77(3450-3550) | 30           | 10                 | 630334        | 1@22             | DFT_256QAM | 20.03          | -2.25              | 17.78         | 59.98        | 1000                  | PASS    |
| n77(3450-3550) | 30           | 10                 | 630334        | 24@0             | CP_QPSK    | 21.31          | -2.25              | 19.06         | 80.54        | 1000                  | PASS    |
| n77(3450-3550) | 30           | 10                 | 630334        | 12@6             | CP_QPSK    | 22.81          | -2.25              | 20.56         | 113.76       | 1000                  | PASS    |
| n77(3450-3550) | 30           | 10                 | 630334        | 1@1              | CP_QPSK    | 22.71          | -2.25              | 20.46         | 111.17       | 1000                  | PASS    |
| n77(3450-3550) | 30           | 10                 | 630334        | 1@22             | CP_QPSK    | 22.69          | -2.25              | 20.44         | 110.66       | 1000                  | PASS    |
| n77(3450-3550) | 30           | 10                 | 630334        | 24@0             | CP_16QAM   | 21.26          | -2.25              | 19.01         | 79.62        | 1000                  | PASS    |
| n77(3450-3550) | 30           | 10                 | 630334        | 12@6             | CP_16QAM   | 22.33          | -2.25              | 20.08         | 101.86       | 1000                  | PASS    |
| n77(3450-3550) | 30           | 10                 | 630334        | 1@1              | CP_16QAM   | 22.21          | -2.25              | 19.96         | 99.08        | 1000                  | PASS    |
| n77(3450-3550) | 30           | 10                 | 630334        | 1@22             | CP_16QAM   | 22.17          | -2.25              | 19.92         | 98.17        | 1000                  | PASS    |
| n77(3450-3550) | 30           | 10                 | 630334        | 24@0             | CP_64QAM   | 20.92          | -2.25              | 18.67         | 73.62        | 1000                  | PASS    |
| n77(3450-3550) | 30           | 10                 | 630334        | 12@6             | CP_64QAM   | 20.96          | -2.25              | 18.71         | 74.30        | 1000                  | PASS    |
| n77(3450-3550) | 30           | 10                 | 630334        | 1@1              | CP_64QAM   | 20.78          | -2.25              | 18.53         | 71.29        | 1000                  | PASS    |
| n77(3450-3550) | 30           | 10                 | 630334        | 1@22             | CP_64QAM   | 20.78          | -2.25              | 18.53         | 71.29        | 1000                  | PASS    |
| n77(3450-3550) | 30           | 10                 | 630334        | 24@0             | CP_256QAM  | 17.87          | -2.25              | 15.62         | 36.48        | 1000                  | PASS    |
| n77(3450-3550) | 30           | 10                 | 630334        | 12@6             | CP_256QAM  | 17.91          | -2.25              | 15.66         | 36.81        | 1000                  | PASS    |

|                |    |    |        |      |            |       |       |       |        |      |      |
|----------------|----|----|--------|------|------------|-------|-------|-------|--------|------|------|
| n77(3450-3550) | 30 | 10 | 630334 | 1@1  | CP_256QAM  | 18.07 | -2.25 | 15.82 | 38.19  | 1000 | PASS |
| n77(3450-3550) | 30 | 10 | 630334 | 1@22 | CP_256QAM  | 18.04 | -2.25 | 15.79 | 37.93  | 1000 | PASS |
| n77(3450-3550) | 30 | 10 | 633334 | 24@0 | DFT_BPSK   | 23.81 | -2.25 | 21.56 | 143.22 | 1000 | PASS |
| n77(3450-3550) | 30 | 10 | 633334 | 12@6 | DFT_BPSK   | 24.31 | -2.25 | 22.06 | 160.69 | 1000 | PASS |
| n77(3450-3550) | 30 | 10 | 633334 | 1@1  | DFT_BPSK   | 24.19 | -2.25 | 21.94 | 156.31 | 1000 | PASS |
| n77(3450-3550) | 30 | 10 | 633334 | 1@22 | DFT_BPSK   | 24.15 | -2.25 | 21.90 | 154.88 | 1000 | PASS |
| n77(3450-3550) | 30 | 10 | 633334 | 24@0 | DFT_QPSK   | 23.31 | -2.25 | 21.06 | 127.64 | 1000 | PASS |
| n77(3450-3550) | 30 | 10 | 633334 | 12@6 | DFT_QPSK   | 24.33 | -2.25 | 22.08 | 161.44 | 1000 | PASS |
| n77(3450-3550) | 30 | 10 | 633334 | 1@1  | DFT_QPSK   | 24.16 | -2.25 | 21.91 | 155.24 | 1000 | PASS |
| n77(3450-3550) | 30 | 10 | 633334 | 1@22 | DFT_QPSK   | 24.13 | -2.25 | 21.88 | 154.17 | 1000 | PASS |
| n77(3450-3550) | 30 | 10 | 633334 | 24@0 | DFT_16QAM  | 22.32 | -2.25 | 20.07 | 101.62 | 1000 | PASS |
| n77(3450-3550) | 30 | 10 | 633334 | 12@6 | DFT_16QAM  | 23.33 | -2.25 | 21.08 | 128.23 | 1000 | PASS |
| n77(3450-3550) | 30 | 10 | 633334 | 1@1  | DFT_16QAM  | 23.27 | -2.25 | 21.02 | 126.47 | 1000 | PASS |
| n77(3450-3550) | 30 | 10 | 633334 | 1@22 | DFT_16QAM  | 23.21 | -2.25 | 20.96 | 124.74 | 1000 | PASS |
| n77(3450-3550) | 30 | 10 | 633334 | 24@0 | DFT_64QAM  | 21.77 | -2.25 | 19.52 | 89.54  | 1000 | PASS |
| n77(3450-3550) | 30 | 10 | 633334 | 12@6 | DFT_64QAM  | 21.81 | -2.25 | 19.56 | 90.36  | 1000 | PASS |
| n77(3450-3550) | 30 | 10 | 633334 | 1@1  | DFT_64QAM  | 21.57 | -2.25 | 19.32 | 85.51  | 1000 | PASS |
| n77(3450-3550) | 30 | 10 | 633334 | 1@22 | DFT_64QAM  | 21.54 | -2.25 | 19.29 | 84.92  | 1000 | PASS |
| n77(3450-3550) | 30 | 10 | 633334 | 24@0 | DFT_256QAM | 19.92 | -2.25 | 17.67 | 58.48  | 1000 | PASS |
| n77(3450-3550) | 30 | 10 | 633334 | 12@6 | DFT_256QAM | 19.93 | -2.25 | 17.68 | 58.61  | 1000 | PASS |
| n77(3450-3550) | 30 | 10 | 633334 | 1@1  | DFT_256QAM | 20.04 | -2.25 | 17.79 | 60.12  | 1000 | PASS |
| n77(3450-3550) | 30 | 10 | 633334 | 1@22 | DFT_256QAM | 19.97 | -2.25 | 17.72 | 59.16  | 1000 | PASS |
| n77(3450-3550) | 30 | 10 | 633334 | 24@0 | CP_QPSK    | 21.29 | -2.25 | 19.04 | 80.17  | 1000 | PASS |
| n77(3450-3550) | 30 | 10 | 633334 | 12@6 | CP_QPSK    | 22.75 | -2.25 | 20.50 | 112.20 | 1000 | PASS |
| n77(3450-3550) | 30 | 10 | 633334 | 1@1  | CP_QPSK    | 22.72 | -2.25 | 20.47 | 111.43 | 1000 | PASS |
| n77(3450-3550) | 30 | 10 | 633334 | 1@22 | CP_QPSK    | 22.68 | -2.25 | 20.43 | 110.41 | 1000 | PASS |
| n77(3450-3550) | 30 | 10 | 633334 | 24@0 | CP_16QAM   | 21.25 | -2.25 | 19.00 | 79.43  | 1000 | PASS |
| n77(3450-3550) | 30 | 10 | 633334 | 12@6 | CP_16QAM   | 22.26 | -2.25 | 20.01 | 100.23 | 1000 | PASS |
| n77(3450-3550) | 30 | 10 | 633334 | 1@1  | CP_16QAM   | 22.21 | -2.25 | 19.96 | 99.08  | 1000 | PASS |
| n77(3450-3550) | 30 | 10 | 633334 | 1@22 | CP_16QAM   | 22.14 | -2.25 | 19.89 | 97.50  | 1000 | PASS |
| n77(3450-3550) | 30 | 10 | 633334 | 24@0 | CP_64QAM   | 20.89 | -2.25 | 18.64 | 73.11  | 1000 | PASS |
| n77(3450-3550) | 30 | 10 | 633334 | 12@6 | CP_64QAM   | 20.93 | -2.25 | 18.68 | 73.79  | 1000 | PASS |
| n77(3450-3550) | 30 | 10 | 633334 | 1@1  | CP_64QAM   | 20.81 | -2.25 | 18.56 | 71.78  | 1000 | PASS |
| n77(3450-3550) | 30 | 10 | 633334 | 1@22 | CP_64QAM   | 20.73 | -2.25 | 18.48 | 70.47  | 1000 | PASS |
| n77(3450-3550) | 30 | 10 | 633334 | 24@0 | CP_256QAM  | 17.83 | -2.25 | 15.58 | 36.14  | 1000 | PASS |
| n77(3450-3550) | 30 | 10 | 633334 | 12@6 | CP_256QAM  | 17.89 | -2.25 | 15.64 | 36.64  | 1000 | PASS |
| n77(3450-3550) | 30 | 10 | 633334 | 1@1  | CP_256QAM  | 18.03 | -2.25 | 15.78 | 37.84  | 1000 | PASS |
| n77(3450-3550) | 30 | 10 | 633334 | 1@22 | CP_256QAM  | 17.98 | -2.25 | 15.73 | 37.41  | 1000 | PASS |
| n77(3450-3550) | 30 | 10 | 636332 | 24@0 | DFT_BPSK   | 23.64 | -2.25 | 21.39 | 137.72 | 1000 | PASS |
| n77(3450-3550) | 30 | 10 | 636332 | 12@6 | DFT_BPSK   | 24.15 | -2.25 | 21.90 | 154.88 | 1000 | PASS |
| n77(3450-3550) | 30 | 10 | 636332 | 1@1  | DFT_BPSK   | 24.03 | -2.25 | 21.78 | 150.66 | 1000 | PASS |
| n77(3450-3550) | 30 | 10 | 636332 | 1@22 | DFT_BPSK   | 24.00 | -2.25 | 21.75 | 149.62 | 1000 | PASS |
| n77(3450-3550) | 30 | 10 | 636332 | 24@0 | DFT_QPSK   | 23.15 | -2.25 | 20.90 | 123.03 | 1000 | PASS |

|                |    |    |        |      |            |       |       |       |        |      |      |
|----------------|----|----|--------|------|------------|-------|-------|-------|--------|------|------|
| n77(3450-3550) | 30 | 10 | 636332 | 12@6 | DFT_QPSK   | 24.15 | -2.25 | 21.90 | 154.88 | 1000 | PASS |
| n77(3450-3550) | 30 | 10 | 636332 | 1@1  | DFT_QPSK   | 24.00 | -2.25 | 21.75 | 149.62 | 1000 | PASS |
| n77(3450-3550) | 30 | 10 | 636332 | 1@22 | DFT_QPSK   | 23.97 | -2.25 | 21.72 | 148.59 | 1000 | PASS |
| n77(3450-3550) | 30 | 10 | 636332 | 24@0 | DFT_16QAM  | 22.14 | -2.25 | 19.89 | 97.50  | 1000 | PASS |
| n77(3450-3550) | 30 | 10 | 636332 | 12@6 | DFT_16QAM  | 23.17 | -2.25 | 20.92 | 123.59 | 1000 | PASS |
| n77(3450-3550) | 30 | 10 | 636332 | 1@1  | DFT_16QAM  | 23.06 | -2.25 | 20.81 | 120.50 | 1000 | PASS |
| n77(3450-3550) | 30 | 10 | 636332 | 1@22 | DFT_16QAM  | 23.05 | -2.25 | 20.80 | 120.23 | 1000 | PASS |
| n77(3450-3550) | 30 | 10 | 636332 | 24@0 | DFT_64QAM  | 21.58 | -2.25 | 19.33 | 85.70  | 1000 | PASS |
| n77(3450-3550) | 30 | 10 | 636332 | 12@6 | DFT_64QAM  | 21.64 | -2.25 | 19.39 | 86.90  | 1000 | PASS |
| n77(3450-3550) | 30 | 10 | 636332 | 1@1  | DFT_64QAM  | 21.43 | -2.25 | 19.18 | 82.79  | 1000 | PASS |
| n77(3450-3550) | 30 | 10 | 636332 | 1@22 | DFT_64QAM  | 21.36 | -2.25 | 19.11 | 81.47  | 1000 | PASS |
| n77(3450-3550) | 30 | 10 | 636332 | 24@0 | DFT_256QAM | 19.76 | -2.25 | 17.51 | 56.36  | 1000 | PASS |
| n77(3450-3550) | 30 | 10 | 636332 | 12@6 | DFT_256QAM | 19.76 | -2.25 | 17.51 | 56.36  | 1000 | PASS |
| n77(3450-3550) | 30 | 10 | 636332 | 1@1  | DFT_256QAM | 19.88 | -2.25 | 17.63 | 57.94  | 1000 | PASS |
| n77(3450-3550) | 30 | 10 | 636332 | 1@22 | DFT_256QAM | 19.82 | -2.25 | 17.57 | 57.15  | 1000 | PASS |
| n77(3450-3550) | 30 | 10 | 636332 | 24@0 | CP_QPSK    | 21.10 | -2.25 | 18.85 | 76.74  | 1000 | PASS |
| n77(3450-3550) | 30 | 10 | 636332 | 12@6 | CP_QPSK    | 22.63 | -2.25 | 20.38 | 109.14 | 1000 | PASS |
| n77(3450-3550) | 30 | 10 | 636332 | 1@1  | CP_QPSK    | 22.55 | -2.25 | 20.30 | 107.15 | 1000 | PASS |
| n77(3450-3550) | 30 | 10 | 636332 | 1@22 | CP_QPSK    | 22.49 | -2.25 | 20.24 | 105.68 | 1000 | PASS |
| n77(3450-3550) | 30 | 10 | 636332 | 24@0 | CP_16QAM   | 21.09 | -2.25 | 18.84 | 76.56  | 1000 | PASS |
| n77(3450-3550) | 30 | 10 | 636332 | 12@6 | CP_16QAM   | 22.11 | -2.25 | 19.86 | 96.83  | 1000 | PASS |
| n77(3450-3550) | 30 | 10 | 636332 | 1@1  | CP_16QAM   | 21.98 | -2.25 | 19.73 | 93.97  | 1000 | PASS |
| n77(3450-3550) | 30 | 10 | 636332 | 1@22 | CP_16QAM   | 21.95 | -2.25 | 19.70 | 93.33  | 1000 | PASS |
| n77(3450-3550) | 30 | 10 | 636332 | 24@0 | CP_64QAM   | 20.75 | -2.25 | 18.50 | 70.79  | 1000 | PASS |
| n77(3450-3550) | 30 | 10 | 636332 | 12@6 | CP_64QAM   | 20.75 | -2.25 | 18.50 | 70.79  | 1000 | PASS |
| n77(3450-3550) | 30 | 10 | 636332 | 1@1  | CP_64QAM   | 20.61 | -2.25 | 18.36 | 68.55  | 1000 | PASS |
| n77(3450-3550) | 30 | 10 | 636332 | 1@22 | CP_64QAM   | 20.57 | -2.25 | 18.32 | 67.92  | 1000 | PASS |
| n77(3450-3550) | 30 | 10 | 636332 | 24@0 | CP_256QAM  | 17.71 | -2.25 | 15.46 | 35.16  | 1000 | PASS |
| n77(3450-3550) | 30 | 10 | 636332 | 12@6 | CP_256QAM  | 17.71 | -2.25 | 15.46 | 35.16  | 1000 | PASS |
| n77(3450-3550) | 30 | 10 | 636332 | 1@1  | CP_256QAM  | 17.86 | -2.25 | 15.61 | 36.39  | 1000 | PASS |
| n77(3450-3550) | 30 | 10 | 636332 | 1@22 | CP_256QAM  | 17.84 | -2.25 | 15.59 | 36.22  | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 630500 | 36@0 | DFT_BPSK   | 23.92 | -2.25 | 21.67 | 146.89 | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 630500 | 18@9 | DFT_BPSK   | 24.38 | -2.25 | 22.13 | 163.31 | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 630500 | 1@1  | DFT_BPSK   | 24.28 | -2.25 | 22.03 | 159.59 | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 630500 | 1@36 | DFT_BPSK   | 24.25 | -2.25 | 22.00 | 158.49 | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 630500 | 36@0 | DFT_QPSK   | 23.41 | -2.25 | 21.16 | 130.62 | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 630500 | 18@9 | DFT_QPSK   | 24.40 | -2.25 | 22.15 | 164.06 | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 630500 | 1@1  | DFT_QPSK   | 24.22 | -2.25 | 21.97 | 157.40 | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 630500 | 1@36 | DFT_QPSK   | 24.24 | -2.25 | 21.99 | 158.12 | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 630500 | 36@0 | DFT_16QAM  | 22.46 | -2.25 | 20.21 | 104.95 | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 630500 | 18@9 | DFT_16QAM  | 23.39 | -2.25 | 21.14 | 130.02 | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 630500 | 1@1  | DFT_16QAM  | 23.35 | -2.25 | 21.10 | 128.82 | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 630500 | 1@36 | DFT_16QAM  | 23.32 | -2.25 | 21.07 | 127.94 | 1000 | PASS |

|                |    |    |        |      |            |       |       |       |        |      |      |
|----------------|----|----|--------|------|------------|-------|-------|-------|--------|------|------|
| n77(3450-3550) | 30 | 15 | 630500 | 36@0 | DFT_64QAM  | 21.94 | -2.25 | 19.69 | 93.11  | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 630500 | 18@9 | DFT_64QAM  | 21.90 | -2.25 | 19.65 | 92.26  | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 630500 | 1@1  | DFT_64QAM  | 21.67 | -2.25 | 19.42 | 87.50  | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 630500 | 1@36 | DFT_64QAM  | 21.69 | -2.25 | 19.44 | 87.90  | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 630500 | 36@0 | DFT_256QAM | 20.02 | -2.25 | 17.77 | 59.84  | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 630500 | 18@9 | DFT_256QAM | 20.07 | -2.25 | 17.82 | 60.53  | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 630500 | 1@1  | DFT_256QAM | 20.12 | -2.25 | 17.87 | 61.24  | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 630500 | 1@36 | DFT_256QAM | 20.13 | -2.25 | 17.88 | 61.38  | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 630500 | 38@0 | CP_QPSK    | 21.39 | -2.25 | 19.14 | 82.04  | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 630500 | 19@9 | CP_QPSK    | 22.90 | -2.25 | 20.65 | 116.14 | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 630500 | 1@1  | CP_QPSK    | 22.79 | -2.25 | 20.54 | 113.24 | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 630500 | 1@36 | CP_QPSK    | 22.80 | -2.25 | 20.55 | 113.50 | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 630500 | 38@0 | CP_16QAM   | 21.33 | -2.25 | 19.08 | 80.91  | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 630500 | 19@9 | CP_16QAM   | 22.42 | -2.25 | 20.17 | 103.99 | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 630500 | 1@1  | CP_16QAM   | 22.21 | -2.25 | 19.96 | 99.08  | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 630500 | 1@36 | CP_16QAM   | 22.21 | -2.25 | 19.96 | 99.08  | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 630500 | 38@0 | CP_64QAM   | 21.08 | -2.25 | 18.83 | 76.38  | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 630500 | 19@9 | CP_64QAM   | 21.04 | -2.25 | 18.79 | 75.68  | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 630500 | 1@1  | CP_64QAM   | 20.82 | -2.25 | 18.57 | 71.94  | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 630500 | 1@36 | CP_64QAM   | 20.83 | -2.25 | 18.58 | 72.11  | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 630500 | 38@0 | CP_256QAM  | 18.01 | -2.25 | 15.76 | 37.67  | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 630500 | 19@9 | CP_256QAM  | 17.97 | -2.25 | 15.72 | 37.33  | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 630500 | 1@1  | CP_256QAM  | 18.11 | -2.25 | 15.86 | 38.55  | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 630500 | 1@36 | CP_256QAM  | 18.12 | -2.25 | 15.87 | 38.64  | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 633334 | 36@0 | DFT_BPSK   | 23.84 | -2.25 | 21.59 | 144.21 | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 633334 | 18@9 | DFT_BPSK   | 24.33 | -2.25 | 22.08 | 161.44 | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 633334 | 1@1  | DFT_BPSK   | 24.24 | -2.25 | 21.99 | 158.12 | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 633334 | 1@36 | DFT_BPSK   | 24.14 | -2.25 | 21.89 | 154.53 | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 633334 | 36@0 | DFT_QPSK   | 23.35 | -2.25 | 21.10 | 128.82 | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 633334 | 18@9 | DFT_QPSK   | 24.37 | -2.25 | 22.12 | 162.93 | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 633334 | 1@1  | DFT_QPSK   | 24.23 | -2.25 | 21.98 | 157.76 | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 633334 | 1@36 | DFT_QPSK   | 24.12 | -2.25 | 21.87 | 153.82 | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 633334 | 36@0 | DFT_16QAM  | 22.36 | -2.25 | 20.11 | 102.57 | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 633334 | 18@9 | DFT_16QAM  | 23.37 | -2.25 | 21.12 | 129.42 | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 633334 | 1@1  | DFT_16QAM  | 23.36 | -2.25 | 21.11 | 129.12 | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 633334 | 1@36 | DFT_16QAM  | 23.24 | -2.25 | 20.99 | 125.60 | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 633334 | 36@0 | DFT_64QAM  | 21.82 | -2.25 | 19.57 | 90.57  | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 633334 | 18@9 | DFT_64QAM  | 21.85 | -2.25 | 19.60 | 91.20  | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 633334 | 1@1  | DFT_64QAM  | 21.66 | -2.25 | 19.41 | 87.30  | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 633334 | 1@36 | DFT_64QAM  | 21.53 | -2.25 | 19.28 | 84.72  | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 633334 | 36@0 | DFT_256QAM | 19.94 | -2.25 | 17.69 | 58.75  | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 633334 | 18@9 | DFT_256QAM | 20.04 | -2.25 | 17.79 | 60.12  | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 633334 | 1@1  | DFT_256QAM | 20.08 | -2.25 | 17.83 | 60.67  | 1000 | PASS |

|                |    |    |        |      |            |       |       |       |        |      |      |
|----------------|----|----|--------|------|------------|-------|-------|-------|--------|------|------|
| n77(3450-3550) | 30 | 15 | 633334 | 1@36 | DFT_256QAM | 20.04 | -2.25 | 17.79 | 60.12  | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 633334 | 38@0 | CP_QPSK    | 21.31 | -2.25 | 19.06 | 80.54  | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 633334 | 19@9 | CP_QPSK    | 22.84 | -2.25 | 20.59 | 114.55 | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 633334 | 1@1  | CP_QPSK    | 22.85 | -2.25 | 20.60 | 114.82 | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 633334 | 1@36 | CP_QPSK    | 22.67 | -2.25 | 20.42 | 110.15 | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 633334 | 38@0 | CP_16QAM   | 21.27 | -2.25 | 19.02 | 79.80  | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 633334 | 19@9 | CP_16QAM   | 22.36 | -2.25 | 20.11 | 102.57 | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 633334 | 1@1  | CP_16QAM   | 22.22 | -2.25 | 19.97 | 99.31  | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 633334 | 1@36 | CP_16QAM   | 22.12 | -2.25 | 19.87 | 97.05  | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 633334 | 38@0 | CP_64QAM   | 21.01 | -2.25 | 18.76 | 75.16  | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 633334 | 19@9 | CP_64QAM   | 20.97 | -2.25 | 18.72 | 74.47  | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 633334 | 1@1  | CP_64QAM   | 20.84 | -2.25 | 18.59 | 72.28  | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 633334 | 1@36 | CP_64QAM   | 20.73 | -2.25 | 18.48 | 70.47  | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 633334 | 38@0 | CP_256QAM  | 17.89 | -2.25 | 15.64 | 36.64  | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 633334 | 19@9 | CP_256QAM  | 17.88 | -2.25 | 15.63 | 36.56  | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 633334 | 1@1  | CP_256QAM  | 18.14 | -2.25 | 15.89 | 38.82  | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 633334 | 1@36 | CP_256QAM  | 18.01 | -2.25 | 15.76 | 37.67  | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 636166 | 36@0 | DFT_BPSK   | 23.66 | -2.25 | 21.41 | 138.36 | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 636166 | 18@9 | DFT_BPSK   | 24.16 | -2.25 | 21.91 | 155.24 | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 636166 | 1@1  | DFT_BPSK   | 24.08 | -2.25 | 21.83 | 152.41 | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 636166 | 1@36 | DFT_BPSK   | 23.99 | -2.25 | 21.74 | 149.28 | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 636166 | 36@0 | DFT_QPSK   | 23.16 | -2.25 | 20.91 | 123.31 | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 636166 | 18@9 | DFT_QPSK   | 24.17 | -2.25 | 21.92 | 155.60 | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 636166 | 1@1  | DFT_QPSK   | 24.08 | -2.25 | 21.83 | 152.41 | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 636166 | 1@36 | DFT_QPSK   | 23.97 | -2.25 | 21.72 | 148.59 | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 636166 | 36@0 | DFT_16QAM  | 22.17 | -2.25 | 19.92 | 98.17  | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 636166 | 18@9 | DFT_16QAM  | 23.18 | -2.25 | 20.93 | 123.88 | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 636166 | 1@1  | DFT_16QAM  | 23.17 | -2.25 | 20.92 | 123.59 | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 636166 | 1@36 | DFT_16QAM  | 23.08 | -2.25 | 20.83 | 121.06 | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 636166 | 36@0 | DFT_64QAM  | 21.64 | -2.25 | 19.39 | 86.90  | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 636166 | 18@9 | DFT_64QAM  | 21.65 | -2.25 | 19.40 | 87.10  | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 636166 | 1@1  | DFT_64QAM  | 21.45 | -2.25 | 19.20 | 83.18  | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 636166 | 1@36 | DFT_64QAM  | 21.36 | -2.25 | 19.11 | 81.47  | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 636166 | 36@0 | DFT_256QAM | 19.78 | -2.25 | 17.53 | 56.62  | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 636166 | 18@9 | DFT_256QAM | 19.86 | -2.25 | 17.61 | 57.68  | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 636166 | 1@1  | DFT_256QAM | 19.93 | -2.25 | 17.68 | 58.61  | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 636166 | 1@36 | DFT_256QAM | 19.84 | -2.25 | 17.59 | 57.41  | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 636166 | 38@0 | CP_QPSK    | 21.11 | -2.25 | 18.86 | 76.91  | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 636166 | 19@9 | CP_QPSK    | 22.65 | -2.25 | 20.40 | 109.65 | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 636166 | 1@1  | CP_QPSK    | 22.60 | -2.25 | 20.35 | 108.39 | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 636166 | 1@36 | CP_QPSK    | 22.50 | -2.25 | 20.25 | 105.93 | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 636166 | 38@0 | CP_16QAM   | 21.08 | -2.25 | 18.83 | 76.38  | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 636166 | 19@9 | CP_16QAM   | 22.17 | -2.25 | 19.92 | 98.17  | 1000 | PASS |



|                |    |    |        |       |            |       |       |       |        |      |      |
|----------------|----|----|--------|-------|------------|-------|-------|-------|--------|------|------|
| n77(3450-3550) | 30 | 15 | 636166 | 1@1   | CP_16QAM   | 22.06 | -2.25 | 19.81 | 95.72  | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 636166 | 1@36  | CP_16QAM   | 21.92 | -2.25 | 19.67 | 92.68  | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 636166 | 38@0  | CP_64QAM   | 20.85 | -2.25 | 18.60 | 72.44  | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 636166 | 19@9  | CP_64QAM   | 20.80 | -2.25 | 18.55 | 71.61  | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 636166 | 1@1   | CP_64QAM   | 20.64 | -2.25 | 18.39 | 69.02  | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 636166 | 1@36  | CP_64QAM   | 20.53 | -2.25 | 18.28 | 67.30  | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 636166 | 38@0  | CP_256QAM  | 17.74 | -2.25 | 15.49 | 35.40  | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 636166 | 19@9  | CP_256QAM  | 17.72 | -2.25 | 15.47 | 35.24  | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 636166 | 1@1   | CP_256QAM  | 17.94 | -2.25 | 15.69 | 37.07  | 1000 | PASS |
| n77(3450-3550) | 30 | 15 | 636166 | 1@36  | CP_256QAM  | 17.84 | -2.25 | 15.59 | 36.22  | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 630668 | 50@0  | DFT_BPSK   | 23.97 | -2.25 | 21.72 | 148.59 | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 630668 | 25@12 | DFT_BPSK   | 24.45 | -2.25 | 22.20 | 165.96 | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 630668 | 1@1   | DFT_BPSK   | 24.28 | -2.25 | 22.03 | 159.59 | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 630668 | 1@49  | DFT_BPSK   | 24.28 | -2.25 | 22.03 | 159.59 | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 630668 | 50@0  | DFT_QPSK   | 23.47 | -2.25 | 21.22 | 132.43 | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 630668 | 25@12 | DFT_QPSK   | 24.48 | -2.25 | 22.23 | 167.11 | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 630668 | 1@1   | DFT_QPSK   | 24.26 | -2.25 | 22.01 | 158.85 | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 630668 | 1@49  | DFT_QPSK   | 24.22 | -2.25 | 21.97 | 157.40 | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 630668 | 50@0  | DFT_16QAM  | 22.45 | -2.25 | 20.20 | 104.71 | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 630668 | 25@12 | DFT_16QAM  | 23.53 | -2.25 | 21.28 | 134.28 | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 630668 | 1@1   | DFT_16QAM  | 23.39 | -2.25 | 21.14 | 130.02 | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 630668 | 1@49  | DFT_16QAM  | 23.38 | -2.25 | 21.13 | 129.72 | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 630668 | 50@0  | DFT_64QAM  | 21.95 | -2.25 | 19.70 | 93.33  | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 630668 | 25@12 | DFT_64QAM  | 21.98 | -2.25 | 19.73 | 93.97  | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 630668 | 1@1   | DFT_64QAM  | 21.69 | -2.25 | 19.44 | 87.90  | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 630668 | 1@49  | DFT_64QAM  | 21.70 | -2.25 | 19.45 | 88.10  | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 630668 | 50@0  | DFT_256QAM | 20.08 | -2.25 | 17.83 | 60.67  | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 630668 | 25@12 | DFT_256QAM | 20.07 | -2.25 | 17.82 | 60.53  | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 630668 | 1@1   | DFT_256QAM | 20.10 | -2.25 | 17.85 | 60.95  | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 630668 | 1@49  | DFT_256QAM | 20.10 | -2.25 | 17.85 | 60.95  | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 630668 | 51@0  | CP_QPSK    | 21.41 | -2.25 | 19.16 | 82.41  | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 630668 | 25@12 | CP_QPSK    | 22.96 | -2.25 | 20.71 | 117.76 | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 630668 | 1@1   | CP_QPSK    | 22.78 | -2.25 | 20.53 | 112.98 | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 630668 | 1@49  | CP_QPSK    | 22.79 | -2.25 | 20.54 | 113.24 | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 630668 | 51@0  | CP_16QAM   | 21.42 | -2.25 | 19.17 | 82.60  | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 630668 | 25@12 | CP_16QAM   | 22.40 | -2.25 | 20.15 | 103.51 | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 630668 | 1@1   | CP_16QAM   | 22.24 | -2.25 | 19.99 | 99.77  | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 630668 | 1@49  | CP_16QAM   | 22.24 | -2.25 | 19.99 | 99.77  | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 630668 | 51@0  | CP_64QAM   | 21.06 | -2.25 | 18.81 | 76.03  | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 630668 | 25@12 | CP_64QAM   | 21.13 | -2.25 | 18.88 | 77.27  | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 630668 | 1@1   | CP_64QAM   | 20.87 | -2.25 | 18.62 | 72.78  | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 630668 | 1@49  | CP_64QAM   | 20.87 | -2.25 | 18.62 | 72.78  | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 630668 | 51@0  | CP_256QAM  | 17.99 | -2.25 | 15.74 | 37.50  | 1000 | PASS |

|                |    |    |        |       |            |       |       |       |        |      |      |
|----------------|----|----|--------|-------|------------|-------|-------|-------|--------|------|------|
| n77(3450-3550) | 30 | 20 | 630668 | 25@12 | CP_256QAM  | 18.03 | -2.25 | 15.78 | 37.84  | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 630668 | 1@1   | CP_256QAM  | 18.14 | -2.25 | 15.89 | 38.82  | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 630668 | 1@49  | CP_256QAM  | 18.13 | -2.25 | 15.88 | 38.73  | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 633334 | 50@0  | DFT_BPSK   | 23.84 | -2.25 | 21.59 | 144.21 | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 633334 | 25@12 | DFT_BPSK   | 24.38 | -2.25 | 22.13 | 163.31 | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 633334 | 1@1   | DFT_BPSK   | 24.26 | -2.25 | 22.01 | 158.85 | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 633334 | 1@49  | DFT_BPSK   | 24.10 | -2.25 | 21.85 | 153.11 | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 633334 | 50@0  | DFT_QPSK   | 23.38 | -2.25 | 21.13 | 129.72 | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 633334 | 25@12 | DFT_QPSK   | 24.37 | -2.25 | 22.12 | 162.93 | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 633334 | 1@1   | DFT_QPSK   | 24.23 | -2.25 | 21.98 | 157.76 | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 633334 | 1@49  | DFT_QPSK   | 24.11 | -2.25 | 21.86 | 153.46 | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 633334 | 50@0  | DFT_16QAM  | 22.33 | -2.25 | 20.08 | 101.86 | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 633334 | 25@12 | DFT_16QAM  | 23.44 | -2.25 | 21.19 | 131.52 | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 633334 | 1@1   | DFT_16QAM  | 23.36 | -2.25 | 21.11 | 129.12 | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 633334 | 1@49  | DFT_16QAM  | 23.24 | -2.25 | 20.99 | 125.60 | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 633334 | 50@0  | DFT_64QAM  | 21.83 | -2.25 | 19.58 | 90.78  | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 633334 | 25@12 | DFT_64QAM  | 21.86 | -2.25 | 19.61 | 91.41  | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 633334 | 1@1   | DFT_64QAM  | 21.66 | -2.25 | 19.41 | 87.30  | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 633334 | 1@49  | DFT_64QAM  | 21.56 | -2.25 | 19.31 | 85.31  | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 633334 | 50@0  | DFT_256QAM | 20.00 | -2.25 | 17.75 | 59.57  | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 633334 | 25@12 | DFT_256QAM | 19.97 | -2.25 | 17.72 | 59.16  | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 633334 | 1@1   | DFT_256QAM | 20.09 | -2.25 | 17.84 | 60.81  | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 633334 | 1@49  | DFT_256QAM | 19.94 | -2.25 | 17.69 | 58.75  | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 633334 | 51@0  | CP_QPSK    | 21.31 | -2.25 | 19.06 | 80.54  | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 633334 | 25@12 | CP_QPSK    | 22.88 | -2.25 | 20.63 | 115.61 | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 633334 | 1@1   | CP_QPSK    | 22.82 | -2.25 | 20.57 | 114.02 | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 633334 | 1@49  | CP_QPSK    | 22.65 | -2.25 | 20.40 | 109.65 | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 633334 | 51@0  | CP_16QAM   | 21.34 | -2.25 | 19.09 | 81.10  | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 633334 | 25@12 | CP_16QAM   | 22.31 | -2.25 | 20.06 | 101.39 | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 633334 | 1@1   | CP_16QAM   | 22.24 | -2.25 | 19.99 | 99.77  | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 633334 | 1@49  | CP_16QAM   | 22.12 | -2.25 | 19.87 | 97.05  | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 633334 | 51@0  | CP_64QAM   | 20.98 | -2.25 | 18.73 | 74.64  | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 633334 | 25@12 | CP_64QAM   | 21.01 | -2.25 | 18.76 | 75.16  | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 633334 | 1@1   | CP_64QAM   | 20.88 | -2.25 | 18.63 | 72.95  | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 633334 | 1@49  | CP_64QAM   | 20.71 | -2.25 | 18.46 | 70.15  | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 633334 | 51@0  | CP_256QAM  | 17.92 | -2.25 | 15.67 | 36.90  | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 633334 | 25@12 | CP_256QAM  | 17.91 | -2.25 | 15.66 | 36.81  | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 633334 | 1@1   | CP_256QAM  | 18.10 | -2.25 | 15.85 | 38.46  | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 633334 | 1@49  | CP_256QAM  | 17.95 | -2.25 | 15.70 | 37.15  | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 636000 | 50@0  | DFT_BPSK   | 23.67 | -2.25 | 21.42 | 138.68 | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 636000 | 25@12 | DFT_BPSK   | 24.18 | -2.25 | 21.93 | 155.96 | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 636000 | 1@1   | DFT_BPSK   | 24.11 | -2.25 | 21.86 | 153.46 | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 636000 | 1@49  | DFT_BPSK   | 23.96 | -2.25 | 21.71 | 148.25 | 1000 | PASS |

|                |    |    |        |       |            |       |       |       |        |      |      |
|----------------|----|----|--------|-------|------------|-------|-------|-------|--------|------|------|
| n77(3450-3550) | 30 | 20 | 636000 | 50@0  | DFT_QPSK   | 23.19 | -2.25 | 20.94 | 124.17 | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 636000 | 25@12 | DFT_QPSK   | 24.21 | -2.25 | 21.96 | 157.04 | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 636000 | 1@1   | DFT_QPSK   | 24.12 | -2.25 | 21.87 | 153.82 | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 636000 | 1@49  | DFT_QPSK   | 23.94 | -2.25 | 21.69 | 147.57 | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 636000 | 50@0  | DFT_16QAM  | 22.16 | -2.25 | 19.91 | 97.95  | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 636000 | 25@12 | DFT_16QAM  | 23.21 | -2.25 | 20.96 | 124.74 | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 636000 | 1@1   | DFT_16QAM  | 23.20 | -2.25 | 20.95 | 124.45 | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 636000 | 1@49  | DFT_16QAM  | 23.05 | -2.25 | 20.80 | 120.23 | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 636000 | 50@0  | DFT_64QAM  | 21.65 | -2.25 | 19.40 | 87.10  | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 636000 | 25@12 | DFT_64QAM  | 21.69 | -2.25 | 19.44 | 87.90  | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 636000 | 1@1   | DFT_64QAM  | 21.51 | -2.25 | 19.26 | 84.33  | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 636000 | 1@49  | DFT_64QAM  | 21.36 | -2.25 | 19.11 | 81.47  | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 636000 | 50@0  | DFT_256QAM | 19.81 | -2.25 | 17.56 | 57.02  | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 636000 | 25@12 | DFT_256QAM | 19.79 | -2.25 | 17.54 | 56.75  | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 636000 | 1@1   | DFT_256QAM | 19.95 | -2.25 | 17.70 | 58.88  | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 636000 | 1@49  | DFT_256QAM | 19.74 | -2.25 | 17.49 | 56.10  | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 636000 | 51@0  | CP_QPSK    | 21.13 | -2.25 | 18.88 | 77.27  | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 636000 | 25@12 | CP_QPSK    | 22.70 | -2.25 | 20.45 | 110.92 | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 636000 | 1@1   | CP_QPSK    | 22.67 | -2.25 | 20.42 | 110.15 | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 636000 | 1@49  | CP_QPSK    | 22.53 | -2.25 | 20.28 | 106.66 | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 636000 | 51@0  | CP_16QAM   | 21.14 | -2.25 | 18.89 | 77.45  | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 636000 | 25@12 | CP_16QAM   | 22.17 | -2.25 | 19.92 | 98.17  | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 636000 | 1@1   | CP_16QAM   | 22.02 | -2.25 | 19.77 | 94.84  | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 636000 | 1@49  | CP_16QAM   | 21.86 | -2.25 | 19.61 | 91.41  | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 636000 | 51@0  | CP_64QAM   | 20.79 | -2.25 | 18.54 | 71.45  | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 636000 | 25@12 | CP_64QAM   | 20.83 | -2.25 | 18.58 | 72.11  | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 636000 | 1@1   | CP_64QAM   | 20.55 | -2.25 | 18.30 | 67.61  | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 636000 | 1@49  | CP_64QAM   | 20.41 | -2.25 | 18.16 | 65.46  | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 636000 | 51@0  | CP_256QAM  | 17.74 | -2.25 | 15.49 | 35.40  | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 636000 | 25@12 | CP_256QAM  | 17.74 | -2.25 | 15.49 | 35.40  | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 636000 | 1@1   | CP_256QAM  | 17.98 | -2.25 | 15.73 | 37.41  | 1000 | PASS |
| n77(3450-3550) | 30 | 20 | 636000 | 1@49  | CP_256QAM  | 17.80 | -2.25 | 15.55 | 35.89  | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 631334 | 100@0 | DFT_BPSK   | 23.88 | -2.25 | 21.63 | 145.55 | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 631334 | 50@25 | DFT_BPSK   | 24.45 | -2.25 | 22.20 | 165.96 | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 631334 | 1@1   | DFT_BPSK   | 23.89 | -2.25 | 21.64 | 145.88 | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 631334 | 1@104 | DFT_BPSK   | 23.95 | -2.25 | 21.70 | 147.91 | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 631334 | 100@0 | DFT_QPSK   | 23.40 | -2.25 | 21.15 | 130.32 | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 631334 | 50@25 | DFT_QPSK   | 24.45 | -2.25 | 22.20 | 165.96 | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 631334 | 1@1   | DFT_QPSK   | 23.89 | -2.25 | 21.64 | 145.88 | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 631334 | 1@104 | DFT_QPSK   | 23.93 | -2.25 | 21.68 | 147.23 | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 631334 | 100@0 | DFT_16QAM  | 22.40 | -2.25 | 20.15 | 103.51 | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 631334 | 50@25 | DFT_16QAM  | 23.47 | -2.25 | 21.22 | 132.43 | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 631334 | 1@1   | DFT_16QAM  | 22.98 | -2.25 | 20.73 | 118.30 | 1000 | PASS |



|                |    |    |        |       |            |       |       |       |        |      |      |
|----------------|----|----|--------|-------|------------|-------|-------|-------|--------|------|------|
| n77(3450-3550) | 30 | 40 | 631334 | 1@104 | DFT_16QAM  | 22.99 | -2.25 | 20.74 | 118.58 | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 631334 | 100@0 | DFT_64QAM  | 21.87 | -2.25 | 19.62 | 91.62  | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 631334 | 50@25 | DFT_64QAM  | 21.92 | -2.25 | 19.67 | 92.68  | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 631334 | 1@1   | DFT_64QAM  | 21.60 | -2.25 | 19.35 | 86.10  | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 631334 | 1@104 | DFT_64QAM  | 21.67 | -2.25 | 19.42 | 87.50  | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 631334 | 100@0 | DFT_256QAM | 20.00 | -2.25 | 17.75 | 59.57  | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 631334 | 50@25 | DFT_256QAM | 20.08 | -2.25 | 17.83 | 60.67  | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 631334 | 1@1   | DFT_256QAM | 19.70 | -2.25 | 17.45 | 55.59  | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 631334 | 1@104 | DFT_256QAM | 19.72 | -2.25 | 17.47 | 55.85  | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 631334 | 106@0 | CP_QPSK    | 21.36 | -2.25 | 19.11 | 81.47  | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 631334 | 53@26 | CP_QPSK    | 22.96 | -2.25 | 20.71 | 117.76 | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 631334 | 1@1   | CP_QPSK    | 22.51 | -2.25 | 20.26 | 106.17 | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 631334 | 1@104 | CP_QPSK    | 22.54 | -2.25 | 20.29 | 106.91 | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 631334 | 106@0 | CP_16QAM   | 21.37 | -2.25 | 19.12 | 81.66  | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 631334 | 53@26 | CP_16QAM   | 22.45 | -2.25 | 20.20 | 104.71 | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 631334 | 1@1   | CP_16QAM   | 21.88 | -2.25 | 19.63 | 91.83  | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 631334 | 1@104 | CP_16QAM   | 21.89 | -2.25 | 19.64 | 92.04  | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 631334 | 106@0 | CP_64QAM   | 20.97 | -2.25 | 18.72 | 74.47  | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 631334 | 53@26 | CP_64QAM   | 21.05 | -2.25 | 18.80 | 75.86  | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 631334 | 1@1   | CP_64QAM   | 20.38 | -2.25 | 18.13 | 65.01  | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 631334 | 1@104 | CP_64QAM   | 20.43 | -2.25 | 18.18 | 65.77  | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 631334 | 106@0 | CP_256QAM  | 17.92 | -2.25 | 15.67 | 36.90  | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 631334 | 53@26 | CP_256QAM  | 18.05 | -2.25 | 15.80 | 38.02  | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 631334 | 1@1   | CP_256QAM  | 17.81 | -2.25 | 15.56 | 35.97  | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 631334 | 1@104 | CP_256QAM  | 17.82 | -2.25 | 15.57 | 36.06  | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 633334 | 100@0 | DFT_BPSK   | 23.84 | -2.25 | 21.59 | 144.21 | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 633334 | 50@25 | DFT_BPSK   | 24.42 | -2.25 | 22.17 | 164.82 | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 633334 | 1@1   | DFT_BPSK   | 23.96 | -2.25 | 21.71 | 148.25 | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 633334 | 1@104 | DFT_BPSK   | 23.76 | -2.25 | 21.51 | 141.58 | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 633334 | 100@0 | DFT_QPSK   | 23.33 | -2.25 | 21.08 | 128.23 | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 633334 | 50@25 | DFT_QPSK   | 24.43 | -2.25 | 22.18 | 165.20 | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 633334 | 1@1   | DFT_QPSK   | 23.94 | -2.25 | 21.69 | 147.57 | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 633334 | 1@104 | DFT_QPSK   | 23.72 | -2.25 | 21.47 | 140.28 | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 633334 | 100@0 | DFT_16QAM  | 22.35 | -2.25 | 20.10 | 102.33 | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 633334 | 50@25 | DFT_16QAM  | 23.42 | -2.25 | 21.17 | 130.92 | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 633334 | 1@1   | DFT_16QAM  | 23.03 | -2.25 | 20.78 | 119.67 | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 633334 | 1@104 | DFT_16QAM  | 22.79 | -2.25 | 20.54 | 113.24 | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 633334 | 100@0 | DFT_64QAM  | 21.81 | -2.25 | 19.56 | 90.36  | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 633334 | 50@25 | DFT_64QAM  | 21.90 | -2.25 | 19.65 | 92.26  | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 633334 | 1@1   | DFT_64QAM  | 21.66 | -2.25 | 19.41 | 87.30  | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 633334 | 1@104 | DFT_64QAM  | 21.46 | -2.25 | 19.21 | 83.37  | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 633334 | 100@0 | DFT_256QAM | 19.96 | -2.25 | 17.71 | 59.02  | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 633334 | 50@25 | DFT_256QAM | 20.04 | -2.25 | 17.79 | 60.12  | 1000 | PASS |

|                |    |    |        |       |            |       |       |       |        |      |      |
|----------------|----|----|--------|-------|------------|-------|-------|-------|--------|------|------|
| n77(3450-3550) | 30 | 40 | 633334 | 1@1   | DFT_256QAM | 19.70 | -2.25 | 17.45 | 55.59  | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 633334 | 1@104 | DFT_256QAM | 19.53 | -2.25 | 17.28 | 53.46  | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 633334 | 106@0 | CP_QPSK    | 21.29 | -2.25 | 19.04 | 80.17  | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 633334 | 53@26 | CP_QPSK    | 22.89 | -2.25 | 20.64 | 115.88 | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 633334 | 1@1   | CP_QPSK    | 22.56 | -2.25 | 20.31 | 107.40 | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 633334 | 1@104 | CP_QPSK    | 22.35 | -2.25 | 20.10 | 102.33 | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 633334 | 106@0 | CP_16QAM   | 21.32 | -2.25 | 19.07 | 80.72  | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 633334 | 53@26 | CP_16QAM   | 22.39 | -2.25 | 20.14 | 103.28 | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 633334 | 1@1   | CP_16QAM   | 21.96 | -2.25 | 19.71 | 93.54  | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 633334 | 1@104 | CP_16QAM   | 21.76 | -2.25 | 19.51 | 89.33  | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 633334 | 106@0 | CP_64QAM   | 20.92 | -2.25 | 18.67 | 73.62  | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 633334 | 53@26 | CP_64QAM   | 20.99 | -2.25 | 18.74 | 74.82  | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 633334 | 1@1   | CP_64QAM   | 20.43 | -2.25 | 18.18 | 65.77  | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 633334 | 1@104 | CP_64QAM   | 20.25 | -2.25 | 18.00 | 63.10  | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 633334 | 106@0 | CP_256QAM  | 17.89 | -2.25 | 15.64 | 36.64  | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 633334 | 53@26 | CP_256QAM  | 17.99 | -2.25 | 15.74 | 37.50  | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 633334 | 1@1   | CP_256QAM  | 17.86 | -2.25 | 15.61 | 36.39  | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 633334 | 1@104 | CP_256QAM  | 17.64 | -2.25 | 15.39 | 34.59  | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 635332 | 100@0 | DFT_BPSK   | 23.61 | -2.25 | 21.36 | 136.77 | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 635332 | 50@25 | DFT_BPSK   | 24.24 | -2.25 | 21.99 | 158.12 | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 635332 | 1@1   | DFT_BPSK   | 23.72 | -2.25 | 21.47 | 140.28 | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 635332 | 1@104 | DFT_BPSK   | 23.49 | -2.25 | 21.24 | 133.05 | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 635332 | 100@0 | DFT_QPSK   | 23.15 | -2.25 | 20.90 | 123.03 | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 635332 | 50@25 | DFT_QPSK   | 24.25 | -2.25 | 22.00 | 158.49 | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 635332 | 1@1   | DFT_QPSK   | 23.72 | -2.25 | 21.47 | 140.28 | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 635332 | 1@104 | DFT_QPSK   | 23.50 | -2.25 | 21.25 | 133.35 | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 635332 | 100@0 | DFT_16QAM  | 22.14 | -2.25 | 19.89 | 97.50  | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 635332 | 50@25 | DFT_16QAM  | 23.26 | -2.25 | 21.01 | 126.18 | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 635332 | 1@1   | DFT_16QAM  | 22.78 | -2.25 | 20.53 | 112.98 | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 635332 | 1@104 | DFT_16QAM  | 22.60 | -2.25 | 20.35 | 108.39 | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 635332 | 100@0 | DFT_64QAM  | 21.60 | -2.25 | 19.35 | 86.10  | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 635332 | 50@25 | DFT_64QAM  | 21.75 | -2.25 | 19.50 | 89.13  | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 635332 | 1@1   | DFT_64QAM  | 21.45 | -2.25 | 19.20 | 83.18  | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 635332 | 1@104 | DFT_64QAM  | 21.20 | -2.25 | 18.95 | 78.52  | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 635332 | 100@0 | DFT_256QAM | 19.75 | -2.25 | 17.50 | 56.23  | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 635332 | 50@25 | DFT_256QAM | 19.86 | -2.25 | 17.61 | 57.68  | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 635332 | 1@1   | DFT_256QAM | 19.53 | -2.25 | 17.28 | 53.46  | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 635332 | 1@104 | DFT_256QAM | 19.31 | -2.25 | 17.06 | 50.82  | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 635332 | 106@0 | CP_QPSK    | 21.05 | -2.25 | 18.80 | 75.86  | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 635332 | 53@26 | CP_QPSK    | 22.71 | -2.25 | 20.46 | 111.17 | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 635332 | 1@1   | CP_QPSK    | 22.31 | -2.25 | 20.06 | 101.39 | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 635332 | 1@104 | CP_QPSK    | 22.08 | -2.25 | 19.83 | 96.16  | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 635332 | 106@0 | CP_16QAM   | 21.06 | -2.25 | 18.81 | 76.03  | 1000 | PASS |

|                |    |    |        |       |            |       |       |       |        |      |      |
|----------------|----|----|--------|-------|------------|-------|-------|-------|--------|------|------|
| n77(3450-3550) | 30 | 40 | 635332 | 53@26 | CP_16QAM   | 22.20 | -2.25 | 19.95 | 98.86  | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 635332 | 1@1   | CP_16QAM   | 21.72 | -2.25 | 19.47 | 88.51  | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 635332 | 1@104 | CP_16QAM   | 21.45 | -2.25 | 19.20 | 83.18  | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 635332 | 106@0 | CP_64QAM   | 20.69 | -2.25 | 18.44 | 69.82  | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 635332 | 53@26 | CP_64QAM   | 20.80 | -2.25 | 18.55 | 71.61  | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 635332 | 1@1   | CP_64QAM   | 20.27 | -2.25 | 18.02 | 63.39  | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 635332 | 1@104 | CP_64QAM   | 19.99 | -2.25 | 17.74 | 59.43  | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 635332 | 106@0 | CP_256QAM  | 17.68 | -2.25 | 15.43 | 34.91  | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 635332 | 53@26 | CP_256QAM  | 17.80 | -2.25 | 15.55 | 35.89  | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 635332 | 1@1   | CP_256QAM  | 17.59 | -2.25 | 15.34 | 34.20  | 1000 | PASS |
| n77(3450-3550) | 30 | 40 | 635332 | 1@104 | CP_256QAM  | 17.37 | -2.25 | 15.12 | 32.51  | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 631668 | 128@0 | DFT_BPSK   | 23.90 | -2.25 | 21.65 | 146.22 | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 631668 | 64@32 | DFT_BPSK   | 24.48 | -2.25 | 22.23 | 167.11 | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 631668 | 1@1   | DFT_BPSK   | 24.06 | -2.25 | 21.81 | 151.71 | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 631668 | 1@131 | DFT_BPSK   | 24.07 | -2.25 | 21.82 | 152.05 | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 631668 | 128@0 | DFT_QPSK   | 23.41 | -2.25 | 21.16 | 130.62 | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 631668 | 64@32 | DFT_QPSK   | 24.50 | -2.25 | 22.25 | 167.88 | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 631668 | 1@1   | DFT_QPSK   | 24.05 | -2.25 | 21.80 | 151.36 | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 631668 | 1@131 | DFT_QPSK   | 24.04 | -2.25 | 21.79 | 151.01 | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 631668 | 128@0 | DFT_16QAM  | 22.42 | -2.25 | 20.17 | 103.99 | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 631668 | 64@32 | DFT_16QAM  | 23.52 | -2.25 | 21.27 | 133.97 | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 631668 | 1@1   | DFT_16QAM  | 23.14 | -2.25 | 20.89 | 122.74 | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 631668 | 1@131 | DFT_16QAM  | 23.13 | -2.25 | 20.88 | 122.46 | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 631668 | 128@0 | DFT_64QAM  | 21.88 | -2.25 | 19.63 | 91.83  | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 631668 | 64@32 | DFT_64QAM  | 21.97 | -2.25 | 19.72 | 93.76  | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 631668 | 1@1   | DFT_64QAM  | 21.48 | -2.25 | 19.23 | 83.75  | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 631668 | 1@131 | DFT_64QAM  | 21.49 | -2.25 | 19.24 | 83.95  | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 631668 | 128@0 | DFT_256QAM | 20.05 | -2.25 | 17.80 | 60.26  | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 631668 | 64@32 | DFT_256QAM | 20.09 | -2.25 | 17.84 | 60.81  | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 631668 | 1@1   | DFT_256QAM | 19.94 | -2.25 | 17.69 | 58.75  | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 631668 | 1@131 | DFT_256QAM | 19.97 | -2.25 | 17.72 | 59.16  | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 631668 | 133@0 | CP_QPSK    | 21.38 | -2.25 | 19.13 | 81.85  | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 631668 | 67@33 | CP_QPSK    | 22.92 | -2.25 | 20.67 | 116.68 | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 631668 | 1@1   | CP_QPSK    | 22.61 | -2.25 | 20.36 | 108.64 | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 631668 | 1@131 | CP_QPSK    | 22.59 | -2.25 | 20.34 | 108.14 | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 631668 | 133@0 | CP_16QAM   | 21.40 | -2.25 | 19.15 | 82.22  | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 631668 | 67@33 | CP_16QAM   | 22.48 | -2.25 | 20.23 | 105.44 | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 631668 | 1@1   | CP_16QAM   | 22.10 | -2.25 | 19.85 | 96.61  | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 631668 | 1@131 | CP_16QAM   | 22.04 | -2.25 | 19.79 | 95.28  | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 631668 | 133@0 | CP_64QAM   | 21.02 | -2.25 | 18.77 | 75.34  | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 631668 | 67@33 | CP_64QAM   | 21.06 | -2.25 | 18.81 | 76.03  | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 631668 | 1@1   | CP_64QAM   | 20.74 | -2.25 | 18.49 | 70.63  | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 631668 | 1@131 | CP_64QAM   | 20.68 | -2.25 | 18.43 | 69.66  | 1000 | PASS |

|                |    |    |        |       |            |       |       |       |        |      |      |
|----------------|----|----|--------|-------|------------|-------|-------|-------|--------|------|------|
| n77(3450-3550) | 30 | 50 | 631668 | 133@0 | CP_256QAM  | 18.00 | -2.25 | 15.75 | 37.58  | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 631668 | 67@33 | CP_256QAM  | 18.03 | -2.25 | 15.78 | 37.84  | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 631668 | 1@1   | CP_256QAM  | 17.98 | -2.25 | 15.73 | 37.41  | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 631668 | 1@131 | CP_256QAM  | 17.93 | -2.25 | 15.68 | 36.98  | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 633334 | 128@0 | DFT_BPSK   | 23.89 | -2.25 | 21.64 | 145.88 | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 633334 | 64@32 | DFT_BPSK   | 24.48 | -2.25 | 22.23 | 167.11 | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 633334 | 1@1   | DFT_BPSK   | 24.18 | -2.25 | 21.93 | 155.96 | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 633334 | 1@131 | DFT_BPSK   | 24.01 | -2.25 | 21.76 | 149.97 | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 633334 | 128@0 | DFT_QPSK   | 23.41 | -2.25 | 21.16 | 130.62 | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 633334 | 64@32 | DFT_QPSK   | 24.48 | -2.25 | 22.23 | 167.11 | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 633334 | 1@1   | DFT_QPSK   | 24.14 | -2.25 | 21.89 | 154.53 | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 633334 | 1@131 | DFT_QPSK   | 23.97 | -2.25 | 21.72 | 148.59 | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 633334 | 128@0 | DFT_16QAM  | 22.41 | -2.25 | 20.16 | 103.75 | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 633334 | 64@32 | DFT_16QAM  | 23.51 | -2.25 | 21.26 | 133.66 | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 633334 | 1@1   | DFT_16QAM  | 23.24 | -2.25 | 20.99 | 125.60 | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 633334 | 1@131 | DFT_16QAM  | 23.06 | -2.25 | 20.81 | 120.50 | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 633334 | 128@0 | DFT_64QAM  | 21.89 | -2.25 | 19.64 | 92.04  | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 633334 | 64@32 | DFT_64QAM  | 21.95 | -2.25 | 19.70 | 93.33  | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 633334 | 1@1   | DFT_64QAM  | 21.61 | -2.25 | 19.36 | 86.30  | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 633334 | 1@131 | DFT_64QAM  | 21.40 | -2.25 | 19.15 | 82.22  | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 633334 | 128@0 | DFT_256QAM | 20.02 | -2.25 | 17.77 | 59.84  | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 633334 | 64@32 | DFT_256QAM | 20.07 | -2.25 | 17.82 | 60.53  | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 633334 | 1@1   | DFT_256QAM | 20.08 | -2.25 | 17.83 | 60.67  | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 633334 | 1@131 | DFT_256QAM | 19.87 | -2.25 | 17.62 | 57.81  | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 633334 | 133@0 | CP_QPSK    | 21.37 | -2.25 | 19.12 | 81.66  | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 633334 | 67@33 | CP_QPSK    | 22.94 | -2.25 | 20.69 | 117.22 | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 633334 | 1@1   | CP_QPSK    | 22.77 | -2.25 | 20.52 | 112.72 | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 633334 | 1@131 | CP_QPSK    | 22.54 | -2.25 | 20.29 | 106.91 | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 633334 | 133@0 | CP_16QAM   | 21.38 | -2.25 | 19.13 | 81.85  | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 633334 | 67@33 | CP_16QAM   | 22.47 | -2.25 | 20.22 | 105.20 | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 633334 | 1@1   | CP_16QAM   | 22.19 | -2.25 | 19.94 | 98.63  | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 633334 | 1@131 | CP_16QAM   | 21.98 | -2.25 | 19.73 | 93.97  | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 633334 | 133@0 | CP_64QAM   | 21.02 | -2.25 | 18.77 | 75.34  | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 633334 | 67@33 | CP_64QAM   | 21.05 | -2.25 | 18.80 | 75.86  | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 633334 | 1@1   | CP_64QAM   | 20.82 | -2.25 | 18.57 | 71.94  | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 633334 | 1@131 | CP_64QAM   | 20.62 | -2.25 | 18.37 | 68.71  | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 633334 | 133@0 | CP_256QAM  | 18.00 | -2.25 | 15.75 | 37.58  | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 633334 | 67@33 | CP_256QAM  | 18.03 | -2.25 | 15.78 | 37.84  | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 633334 | 1@1   | CP_256QAM  | 18.11 | -2.25 | 15.86 | 38.55  | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 633334 | 1@131 | CP_256QAM  | 17.91 | -2.25 | 15.66 | 36.81  | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 635000 | 128@0 | DFT_BPSK   | 23.70 | -2.25 | 21.45 | 139.64 | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 635000 | 64@32 | DFT_BPSK   | 24.28 | -2.25 | 22.03 | 159.59 | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 635000 | 1@1   | DFT_BPSK   | 24.02 | -2.25 | 21.77 | 150.31 | 1000 | PASS |

|                |    |    |        |       |            |       |       |       |        |      |      |
|----------------|----|----|--------|-------|------------|-------|-------|-------|--------|------|------|
| n77(3450-3550) | 30 | 50 | 635000 | 1@131 | DFT_BPSK   | 23.73 | -2.25 | 21.48 | 140.60 | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 635000 | 128@0 | DFT_QPSK   | 23.20 | -2.25 | 20.95 | 124.45 | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 635000 | 64@32 | DFT_QPSK   | 24.29 | -2.25 | 22.04 | 159.96 | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 635000 | 1@1   | DFT_QPSK   | 23.99 | -2.25 | 21.74 | 149.28 | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 635000 | 1@131 | DFT_QPSK   | 23.69 | -2.25 | 21.44 | 139.32 | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 635000 | 128@0 | DFT_16QAM  | 22.22 | -2.25 | 19.97 | 99.31  | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 635000 | 64@32 | DFT_16QAM  | 23.32 | -2.25 | 21.07 | 127.94 | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 635000 | 1@1   | DFT_16QAM  | 23.09 | -2.25 | 20.84 | 121.34 | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 635000 | 1@131 | DFT_16QAM  | 22.78 | -2.25 | 20.53 | 112.98 | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 635000 | 128@0 | DFT_64QAM  | 21.71 | -2.25 | 19.46 | 88.31  | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 635000 | 64@32 | DFT_64QAM  | 21.77 | -2.25 | 19.52 | 89.54  | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 635000 | 1@1   | DFT_64QAM  | 21.45 | -2.25 | 19.20 | 83.18  | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 635000 | 1@131 | DFT_64QAM  | 21.16 | -2.25 | 18.91 | 77.80  | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 635000 | 128@0 | DFT_256QAM | 19.81 | -2.25 | 17.56 | 57.02  | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 635000 | 64@32 | DFT_256QAM | 19.87 | -2.25 | 17.62 | 57.81  | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 635000 | 1@1   | DFT_256QAM | 19.91 | -2.25 | 17.66 | 58.34  | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 635000 | 1@131 | DFT_256QAM | 19.60 | -2.25 | 17.35 | 54.33  | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 635000 | 133@0 | CP_QPSK    | 21.14 | -2.25 | 18.89 | 77.45  | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 635000 | 67@33 | CP_QPSK    | 22.73 | -2.25 | 20.48 | 111.69 | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 635000 | 1@1   | CP_QPSK    | 22.56 | -2.25 | 20.31 | 107.40 | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 635000 | 1@131 | CP_QPSK    | 22.29 | -2.25 | 20.04 | 100.93 | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 635000 | 133@0 | CP_16QAM   | 21.16 | -2.25 | 18.91 | 77.80  | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 635000 | 67@33 | CP_16QAM   | 22.26 | -2.25 | 20.01 | 100.23 | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 635000 | 1@1   | CP_16QAM   | 22.00 | -2.25 | 19.75 | 94.41  | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 635000 | 1@131 | CP_16QAM   | 21.75 | -2.25 | 19.50 | 89.13  | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 635000 | 133@0 | CP_64QAM   | 20.79 | -2.25 | 18.54 | 71.45  | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 635000 | 67@33 | CP_64QAM   | 20.85 | -2.25 | 18.60 | 72.44  | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 635000 | 1@1   | CP_64QAM   | 20.68 | -2.25 | 18.43 | 69.66  | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 635000 | 1@131 | CP_64QAM   | 20.39 | -2.25 | 18.14 | 65.16  | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 635000 | 133@0 | CP_256QAM  | 17.77 | -2.25 | 15.52 | 35.65  | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 635000 | 67@33 | CP_256QAM  | 17.83 | -2.25 | 15.58 | 36.14  | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 635000 | 1@1   | CP_256QAM  | 17.93 | -2.25 | 15.68 | 36.98  | 1000 | PASS |
| n77(3450-3550) | 30 | 50 | 635000 | 1@131 | CP_256QAM  | 17.66 | -2.25 | 15.41 | 34.75  | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 632000 | 162@0 | DFT_BPSK   | 23.92 | -2.25 | 21.67 | 146.89 | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 632000 | 81@40 | DFT_BPSK   | 24.54 | -2.25 | 22.29 | 169.43 | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 632000 | 1@1   | DFT_BPSK   | 24.06 | -2.25 | 21.81 | 151.71 | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 632000 | 1@160 | DFT_BPSK   | 23.92 | -2.25 | 21.67 | 146.89 | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 632000 | 162@0 | DFT_QPSK   | 23.41 | -2.25 | 21.16 | 130.62 | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 632000 | 81@40 | DFT_QPSK   | 24.54 | -2.25 | 22.29 | 169.43 | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 632000 | 1@1   | DFT_QPSK   | 24.00 | -2.25 | 21.75 | 149.62 | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 632000 | 1@160 | DFT_QPSK   | 23.89 | -2.25 | 21.64 | 145.88 | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 632000 | 162@0 | DFT_16QAM  | 22.41 | -2.25 | 20.16 | 103.75 | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 632000 | 81@40 | DFT_16QAM  | 23.52 | -2.25 | 21.27 | 133.97 | 1000 | PASS |



|                |    |    |        |       |            |       |       |       |        |      |      |
|----------------|----|----|--------|-------|------------|-------|-------|-------|--------|------|------|
| n77(3450-3550) | 30 | 60 | 632000 | 1@1   | DFT_16QAM  | 23.09 | -2.25 | 20.84 | 121.34 | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 632000 | 1@160 | DFT_16QAM  | 22.97 | -2.25 | 20.72 | 118.03 | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 632000 | 162@0 | DFT_64QAM  | 21.91 | -2.25 | 19.66 | 92.47  | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 632000 | 81@40 | DFT_64QAM  | 21.99 | -2.25 | 19.74 | 94.19  | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 632000 | 1@1   | DFT_64QAM  | 21.41 | -2.25 | 19.16 | 82.41  | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 632000 | 1@160 | DFT_64QAM  | 21.29 | -2.25 | 19.04 | 80.17  | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 632000 | 162@0 | DFT_256QAM | 20.02 | -2.25 | 17.77 | 59.84  | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 632000 | 81@40 | DFT_256QAM | 20.10 | -2.25 | 17.85 | 60.95  | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 632000 | 1@1   | DFT_256QAM | 19.84 | -2.25 | 17.59 | 57.41  | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 632000 | 1@160 | DFT_256QAM | 19.71 | -2.25 | 17.46 | 55.72  | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 632000 | 162@0 | CP_QPSK    | 21.35 | -2.25 | 19.10 | 81.28  | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 632000 | 81@40 | CP_QPSK    | 23.03 | -2.25 | 20.78 | 119.67 | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 632000 | 1@1   | CP_QPSK    | 22.55 | -2.25 | 20.30 | 107.15 | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 632000 | 1@160 | CP_QPSK    | 22.45 | -2.25 | 20.20 | 104.71 | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 632000 | 162@0 | CP_16QAM   | 21.35 | -2.25 | 19.10 | 81.28  | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 632000 | 81@40 | CP_16QAM   | 22.50 | -2.25 | 20.25 | 105.93 | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 632000 | 1@1   | CP_16QAM   | 22.02 | -2.25 | 19.77 | 94.84  | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 632000 | 1@160 | CP_16QAM   | 21.88 | -2.25 | 19.63 | 91.83  | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 632000 | 162@0 | CP_64QAM   | 20.99 | -2.25 | 18.74 | 74.82  | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 632000 | 81@40 | CP_64QAM   | 21.15 | -2.25 | 18.90 | 77.62  | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 632000 | 1@1   | CP_64QAM   | 20.77 | -2.25 | 18.52 | 71.12  | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 632000 | 1@160 | CP_64QAM   | 20.65 | -2.25 | 18.40 | 69.18  | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 632000 | 162@0 | CP_256QAM  | 17.98 | -2.25 | 15.73 | 37.41  | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 632000 | 81@40 | CP_256QAM  | 18.06 | -2.25 | 15.81 | 38.11  | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 632000 | 1@1   | CP_256QAM  | 17.98 | -2.25 | 15.73 | 37.41  | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 632000 | 1@160 | CP_256QAM  | 17.86 | -2.25 | 15.61 | 36.39  | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 633334 | 162@0 | DFT_BPSK   | 23.84 | -2.25 | 21.59 | 144.21 | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 633334 | 81@40 | DFT_BPSK   | 24.47 | -2.25 | 22.22 | 166.72 | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 633334 | 1@1   | DFT_BPSK   | 23.98 | -2.25 | 21.73 | 148.94 | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 633334 | 1@160 | DFT_BPSK   | 23.85 | -2.25 | 21.60 | 144.54 | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 633334 | 162@0 | DFT_QPSK   | 23.35 | -2.25 | 21.10 | 128.82 | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 633334 | 81@40 | DFT_QPSK   | 24.48 | -2.25 | 22.23 | 167.11 | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 633334 | 1@1   | DFT_QPSK   | 23.98 | -2.25 | 21.73 | 148.94 | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 633334 | 1@160 | DFT_QPSK   | 23.82 | -2.25 | 21.57 | 143.55 | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 633334 | 162@0 | DFT_16QAM  | 22.35 | -2.25 | 20.10 | 102.33 | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 633334 | 81@40 | DFT_16QAM  | 23.47 | -2.25 | 21.22 | 132.43 | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 633334 | 1@1   | DFT_16QAM  | 23.08 | -2.25 | 20.83 | 121.06 | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 633334 | 1@160 | DFT_16QAM  | 22.88 | -2.25 | 20.63 | 115.61 | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 633334 | 162@0 | DFT_64QAM  | 21.84 | -2.25 | 19.59 | 90.99  | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 633334 | 81@40 | DFT_64QAM  | 21.93 | -2.25 | 19.68 | 92.90  | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 633334 | 1@1   | DFT_64QAM  | 21.39 | -2.25 | 19.14 | 82.04  | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 633334 | 1@160 | DFT_64QAM  | 21.24 | -2.25 | 18.99 | 79.25  | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 633334 | 162@0 | DFT_256QAM | 19.99 | -2.25 | 17.74 | 59.43  | 1000 | PASS |

|                |    |    |        |       |            |       |       |       |        |      |      |
|----------------|----|----|--------|-------|------------|-------|-------|-------|--------|------|------|
| n77(3450-3550) | 30 | 60 | 633334 | 81@40 | DFT_256QAM | 20.05 | -2.25 | 17.80 | 60.26  | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 633334 | 1@1   | DFT_256QAM | 19.82 | -2.25 | 17.57 | 57.15  | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 633334 | 1@160 | DFT_256QAM | 19.65 | -2.25 | 17.40 | 54.95  | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 633334 | 162@0 | CP_QPSK    | 21.30 | -2.25 | 19.05 | 80.35  | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 633334 | 81@40 | CP_QPSK    | 22.98 | -2.25 | 20.73 | 118.30 | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 633334 | 1@1   | CP_QPSK    | 22.56 | -2.25 | 20.31 | 107.40 | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 633334 | 1@160 | CP_QPSK    | 22.40 | -2.25 | 20.15 | 103.51 | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 633334 | 162@0 | CP_16QAM   | 21.29 | -2.25 | 19.04 | 80.17  | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 633334 | 81@40 | CP_16QAM   | 22.42 | -2.25 | 20.17 | 103.99 | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 633334 | 1@1   | CP_16QAM   | 22.03 | -2.25 | 19.78 | 95.06  | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 633334 | 1@160 | CP_16QAM   | 21.87 | -2.25 | 19.62 | 91.62  | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 633334 | 162@0 | CP_64QAM   | 20.94 | -2.25 | 18.69 | 73.96  | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 633334 | 81@40 | CP_64QAM   | 21.06 | -2.25 | 18.81 | 76.03  | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 633334 | 1@1   | CP_64QAM   | 20.78 | -2.25 | 18.53 | 71.29  | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 633334 | 1@160 | CP_64QAM   | 20.61 | -2.25 | 18.36 | 68.55  | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 633334 | 162@0 | CP_256QAM  | 17.92 | -2.25 | 15.67 | 36.90  | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 633334 | 81@40 | CP_256QAM  | 18.00 | -2.25 | 15.75 | 37.58  | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 633334 | 1@1   | CP_256QAM  | 17.98 | -2.25 | 15.73 | 37.41  | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 633334 | 1@160 | CP_256QAM  | 17.79 | -2.25 | 15.54 | 35.81  | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 634666 | 162@0 | DFT_BPSK   | 23.74 | -2.25 | 21.49 | 140.93 | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 634666 | 81@40 | DFT_BPSK   | 24.36 | -2.25 | 22.11 | 162.55 | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 634666 | 1@1   | DFT_BPSK   | 24.07 | -2.25 | 21.82 | 152.05 | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 634666 | 1@160 | DFT_BPSK   | 23.66 | -2.25 | 21.41 | 138.36 | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 634666 | 162@0 | DFT_QPSK   | 23.25 | -2.25 | 21.00 | 125.89 | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 634666 | 81@40 | DFT_QPSK   | 24.36 | -2.25 | 22.11 | 162.55 | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 634666 | 1@1   | DFT_QPSK   | 24.05 | -2.25 | 21.80 | 151.36 | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 634666 | 1@160 | DFT_QPSK   | 23.62 | -2.25 | 21.37 | 137.09 | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 634666 | 162@0 | DFT_16QAM  | 22.24 | -2.25 | 19.99 | 99.77  | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 634666 | 81@40 | DFT_16QAM  | 23.36 | -2.25 | 21.11 | 129.12 | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 634666 | 1@1   | DFT_16QAM  | 23.12 | -2.25 | 20.87 | 122.18 | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 634666 | 1@160 | DFT_16QAM  | 22.68 | -2.25 | 20.43 | 110.41 | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 634666 | 162@0 | DFT_64QAM  | 21.74 | -2.25 | 19.49 | 88.92  | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 634666 | 81@40 | DFT_64QAM  | 21.81 | -2.25 | 19.56 | 90.36  | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 634666 | 1@1   | DFT_64QAM  | 21.49 | -2.25 | 19.24 | 83.95  | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 634666 | 1@160 | DFT_64QAM  | 21.06 | -2.25 | 18.81 | 76.03  | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 634666 | 162@0 | DFT_256QAM | 19.84 | -2.25 | 17.59 | 57.41  | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 634666 | 81@40 | DFT_256QAM | 19.92 | -2.25 | 17.67 | 58.48  | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 634666 | 1@1   | DFT_256QAM | 19.89 | -2.25 | 17.64 | 58.08  | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 634666 | 1@160 | DFT_256QAM | 19.44 | -2.25 | 17.19 | 52.36  | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 634666 | 162@0 | CP_QPSK    | 21.20 | -2.25 | 18.95 | 78.52  | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 634666 | 81@40 | CP_QPSK    | 22.86 | -2.25 | 20.61 | 115.08 | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 634666 | 1@1   | CP_QPSK    | 22.57 | -2.25 | 20.32 | 107.65 | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 634666 | 1@160 | CP_QPSK    | 22.18 | -2.25 | 19.93 | 98.40  | 1000 | PASS |

|                |    |    |        |       |            |       |       |       |        |      |      |
|----------------|----|----|--------|-------|------------|-------|-------|-------|--------|------|------|
| n77(3450-3550) | 30 | 60 | 634666 | 162@0 | CP_16QAM   | 21.19 | -2.25 | 18.94 | 78.34  | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 634666 | 81@40 | CP_16QAM   | 22.32 | -2.25 | 20.07 | 101.62 | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 634666 | 1@1   | CP_16QAM   | 22.07 | -2.25 | 19.82 | 95.94  | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 634666 | 1@160 | CP_16QAM   | 21.60 | -2.25 | 19.35 | 86.10  | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 634666 | 162@0 | CP_64QAM   | 20.83 | -2.25 | 18.58 | 72.11  | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 634666 | 81@40 | CP_64QAM   | 20.95 | -2.25 | 18.70 | 74.13  | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 634666 | 1@1   | CP_64QAM   | 20.71 | -2.25 | 18.46 | 70.15  | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 634666 | 1@160 | CP_64QAM   | 20.28 | -2.25 | 18.03 | 63.53  | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 634666 | 162@0 | CP_256QAM  | 17.81 | -2.25 | 15.56 | 35.97  | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 634666 | 81@40 | CP_256QAM  | 17.90 | -2.25 | 15.65 | 36.73  | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 634666 | 1@1   | CP_256QAM  | 18.04 | -2.25 | 15.79 | 37.93  | 1000 | PASS |
| n77(3450-3550) | 30 | 60 | 634666 | 1@160 | CP_256QAM  | 17.55 | -2.25 | 15.30 | 33.88  | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 632334 | 180@0 | DFT_BPSK   | 23.84 | -2.25 | 21.59 | 144.21 | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 632334 | 90@45 | DFT_BPSK   | 24.51 | -2.25 | 22.26 | 168.27 | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 632334 | 1@1   | DFT_BPSK   | 23.89 | -2.25 | 21.64 | 145.88 | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 632334 | 1@187 | DFT_BPSK   | 23.78 | -2.25 | 21.53 | 142.23 | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 632334 | 180@0 | DFT_QPSK   | 23.34 | -2.25 | 21.09 | 128.53 | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 632334 | 90@45 | DFT_QPSK   | 24.53 | -2.25 | 22.28 | 169.04 | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 632334 | 1@1   | DFT_QPSK   | 23.85 | -2.25 | 21.60 | 144.54 | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 632334 | 1@187 | DFT_QPSK   | 23.76 | -2.25 | 21.51 | 141.58 | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 632334 | 180@0 | DFT_16QAM  | 22.36 | -2.25 | 20.11 | 102.57 | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 632334 | 90@45 | DFT_16QAM  | 23.54 | -2.25 | 21.29 | 134.59 | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 632334 | 1@1   | DFT_16QAM  | 23.08 | -2.25 | 20.83 | 121.06 | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 632334 | 1@187 | DFT_16QAM  | 22.97 | -2.25 | 20.72 | 118.03 | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 632334 | 180@0 | DFT_64QAM  | 21.87 | -2.25 | 19.62 | 91.62  | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 632334 | 90@45 | DFT_64QAM  | 21.98 | -2.25 | 19.73 | 93.97  | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 632334 | 1@1   | DFT_64QAM  | 21.38 | -2.25 | 19.13 | 81.85  | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 632334 | 1@187 | DFT_64QAM  | 21.27 | -2.25 | 19.02 | 79.80  | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 632334 | 180@0 | DFT_256QAM | 20.00 | -2.25 | 17.75 | 59.57  | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 632334 | 90@45 | DFT_256QAM | 20.13 | -2.25 | 17.88 | 61.38  | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 632334 | 1@1   | DFT_256QAM | 19.72 | -2.25 | 17.47 | 55.85  | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 632334 | 1@187 | DFT_256QAM | 19.62 | -2.25 | 17.37 | 54.58  | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 632334 | 189@0 | CP_QPSK    | 21.30 | -2.25 | 19.05 | 80.35  | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 632334 | 95@47 | CP_QPSK    | 23.00 | -2.25 | 20.75 | 118.85 | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 632334 | 1@1   | CP_QPSK    | 22.43 | -2.25 | 20.18 | 104.23 | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 632334 | 1@187 | CP_QPSK    | 22.38 | -2.25 | 20.13 | 103.04 | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 632334 | 189@0 | CP_16QAM   | 21.27 | -2.25 | 19.02 | 79.80  | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 632334 | 95@47 | CP_16QAM   | 22.53 | -2.25 | 20.28 | 106.66 | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 632334 | 1@1   | CP_16QAM   | 21.91 | -2.25 | 19.66 | 92.47  | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 632334 | 1@187 | CP_16QAM   | 21.77 | -2.25 | 19.52 | 89.54  | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 632334 | 189@0 | CP_64QAM   | 21.00 | -2.25 | 18.75 | 74.99  | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 632334 | 95@47 | CP_64QAM   | 21.11 | -2.25 | 18.86 | 76.91  | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 632334 | 1@1   | CP_64QAM   | 20.61 | -2.25 | 18.36 | 68.55  | 1000 | PASS |

|                |    |    |        |       |            |       |       |       |        |      |      |
|----------------|----|----|--------|-------|------------|-------|-------|-------|--------|------|------|
| n77(3450-3550) | 30 | 70 | 632334 | 1@187 | CP_64QAM   | 20.54 | -2.25 | 18.29 | 67.45  | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 632334 | 189@0 | CP_256QAM  | 17.93 | -2.25 | 15.68 | 36.98  | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 632334 | 95@47 | CP_256QAM  | 18.09 | -2.25 | 15.84 | 38.37  | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 632334 | 1@1   | CP_256QAM  | 17.93 | -2.25 | 15.68 | 36.98  | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 632334 | 1@187 | CP_256QAM  | 17.82 | -2.25 | 15.57 | 36.06  | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 633334 | 180@0 | DFT_BPSK   | 23.87 | -2.25 | 21.62 | 145.21 | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 633334 | 90@45 | DFT_BPSK   | 24.51 | -2.25 | 22.26 | 168.27 | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 633334 | 1@1   | DFT_BPSK   | 23.94 | -2.25 | 21.69 | 147.57 | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 633334 | 1@187 | DFT_BPSK   | 23.71 | -2.25 | 21.46 | 139.96 | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 633334 | 180@0 | DFT_QPSK   | 23.37 | -2.25 | 21.12 | 129.42 | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 633334 | 90@45 | DFT_QPSK   | 24.52 | -2.25 | 22.27 | 168.66 | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 633334 | 1@1   | DFT_QPSK   | 23.87 | -2.25 | 21.62 | 145.21 | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 633334 | 1@187 | DFT_QPSK   | 23.68 | -2.25 | 21.43 | 139.00 | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 633334 | 180@0 | DFT_16QAM  | 22.37 | -2.25 | 20.12 | 102.80 | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 633334 | 90@45 | DFT_16QAM  | 23.54 | -2.25 | 21.29 | 134.59 | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 633334 | 1@1   | DFT_16QAM  | 23.01 | -2.25 | 20.76 | 119.12 | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 633334 | 1@187 | DFT_16QAM  | 22.79 | -2.25 | 20.54 | 113.24 | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 633334 | 180@0 | DFT_64QAM  | 21.88 | -2.25 | 19.63 | 91.83  | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 633334 | 90@45 | DFT_64QAM  | 21.95 | -2.25 | 19.70 | 93.33  | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 633334 | 1@1   | DFT_64QAM  | 21.26 | -2.25 | 19.01 | 79.62  | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 633334 | 1@187 | DFT_64QAM  | 21.05 | -2.25 | 18.80 | 75.86  | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 633334 | 180@0 | DFT_256QAM | 19.99 | -2.25 | 17.74 | 59.43  | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 633334 | 90@45 | DFT_256QAM | 20.10 | -2.25 | 17.85 | 60.95  | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 633334 | 1@1   | DFT_256QAM | 19.84 | -2.25 | 17.59 | 57.41  | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 633334 | 1@187 | DFT_256QAM | 19.61 | -2.25 | 17.36 | 54.45  | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 633334 | 189@0 | CP_QPSK    | 21.30 | -2.25 | 19.05 | 80.35  | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 633334 | 95@47 | CP_QPSK    | 23.00 | -2.25 | 20.75 | 118.85 | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 633334 | 1@1   | CP_QPSK    | 22.52 | -2.25 | 20.27 | 106.41 | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 633334 | 1@187 | CP_QPSK    | 22.30 | -2.25 | 20.05 | 101.16 | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 633334 | 189@0 | CP_16QAM   | 21.25 | -2.25 | 19.00 | 79.43  | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 633334 | 95@47 | CP_16QAM   | 22.48 | -2.25 | 20.23 | 105.44 | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 633334 | 1@1   | CP_16QAM   | 21.93 | -2.25 | 19.68 | 92.90  | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 633334 | 1@187 | CP_16QAM   | 21.71 | -2.25 | 19.46 | 88.31  | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 633334 | 189@0 | CP_64QAM   | 20.99 | -2.25 | 18.74 | 74.82  | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 633334 | 95@47 | CP_64QAM   | 21.11 | -2.25 | 18.86 | 76.91  | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 633334 | 1@1   | CP_64QAM   | 20.65 | -2.25 | 18.40 | 69.18  | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 633334 | 1@187 | CP_64QAM   | 20.44 | -2.25 | 18.19 | 65.92  | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 633334 | 189@0 | CP_256QAM  | 17.93 | -2.25 | 15.68 | 36.98  | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 633334 | 95@47 | CP_256QAM  | 18.08 | -2.25 | 15.83 | 38.28  | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 633334 | 1@1   | CP_256QAM  | 17.97 | -2.25 | 15.72 | 37.33  | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 633334 | 1@187 | CP_256QAM  | 17.72 | -2.25 | 15.47 | 35.24  | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 634332 | 180@0 | DFT_BPSK   | 23.85 | -2.25 | 21.60 | 144.54 | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 634332 | 90@45 | DFT_BPSK   | 24.44 | -2.25 | 22.19 | 165.58 | 1000 | PASS |

|                |    |    |        |        |            |       |       |       |        |      |      |
|----------------|----|----|--------|--------|------------|-------|-------|-------|--------|------|------|
| n77(3450-3550) | 30 | 70 | 634332 | 1@1    | DFT_BPSK   | 24.02 | -2.25 | 21.77 | 150.31 | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 634332 | 1@187  | DFT_BPSK   | 23.56 | -2.25 | 21.31 | 135.21 | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 634332 | 180@0  | DFT_QPSK   | 23.37 | -2.25 | 21.12 | 129.42 | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 634332 | 90@45  | DFT_QPSK   | 24.48 | -2.25 | 22.23 | 167.11 | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 634332 | 1@1    | DFT_QPSK   | 24.03 | -2.25 | 21.78 | 150.66 | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 634332 | 1@187  | DFT_QPSK   | 23.54 | -2.25 | 21.29 | 134.59 | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 634332 | 180@0  | DFT_16QAM  | 22.34 | -2.25 | 20.09 | 102.09 | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 634332 | 90@45  | DFT_16QAM  | 23.48 | -2.25 | 21.23 | 132.74 | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 634332 | 1@1    | DFT_16QAM  | 23.16 | -2.25 | 20.91 | 123.31 | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 634332 | 1@187  | DFT_16QAM  | 22.63 | -2.25 | 20.38 | 109.14 | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 634332 | 180@0  | DFT_64QAM  | 21.85 | -2.25 | 19.60 | 91.20  | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 634332 | 90@45  | DFT_64QAM  | 21.91 | -2.25 | 19.66 | 92.47  | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 634332 | 1@1    | DFT_64QAM  | 21.50 | -2.25 | 19.25 | 84.14  | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 634332 | 1@187  | DFT_64QAM  | 20.96 | -2.25 | 18.71 | 74.30  | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 634332 | 180@0  | DFT_256QAM | 19.99 | -2.25 | 17.74 | 59.43  | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 634332 | 90@45  | DFT_256QAM | 20.06 | -2.25 | 17.81 | 60.39  | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 634332 | 1@1    | DFT_256QAM | 19.99 | -2.25 | 17.74 | 59.43  | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 634332 | 1@187  | DFT_256QAM | 19.54 | -2.25 | 17.29 | 53.58  | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 634332 | 189@0  | CP_QPSK    | 21.26 | -2.25 | 19.01 | 79.62  | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 634332 | 95@47  | CP_QPSK    | 22.94 | -2.25 | 20.69 | 117.22 | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 634332 | 1@1    | CP_QPSK    | 22.59 | -2.25 | 20.34 | 108.14 | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 634332 | 1@187  | CP_QPSK    | 22.15 | -2.25 | 19.90 | 97.72  | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 634332 | 189@0  | CP_16QAM   | 21.22 | -2.25 | 18.97 | 78.89  | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 634332 | 95@47  | CP_16QAM   | 22.45 | -2.25 | 20.20 | 104.71 | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 634332 | 1@1    | CP_16QAM   | 22.01 | -2.25 | 19.76 | 94.62  | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 634332 | 1@187  | CP_16QAM   | 21.58 | -2.25 | 19.33 | 85.70  | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 634332 | 189@0  | CP_64QAM   | 20.95 | -2.25 | 18.70 | 74.13  | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 634332 | 95@47  | CP_64QAM   | 21.06 | -2.25 | 18.81 | 76.03  | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 634332 | 1@1    | CP_64QAM   | 20.77 | -2.25 | 18.52 | 71.12  | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 634332 | 1@187  | CP_64QAM   | 20.32 | -2.25 | 18.07 | 64.12  | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 634332 | 189@0  | CP_256QAM  | 17.88 | -2.25 | 15.63 | 36.56  | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 634332 | 95@47  | CP_256QAM  | 18.01 | -2.25 | 15.76 | 37.67  | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 634332 | 1@1    | CP_256QAM  | 18.05 | -2.25 | 15.80 | 38.02  | 1000 | PASS |
| n77(3450-3550) | 30 | 70 | 634332 | 1@187  | CP_256QAM  | 17.59 | -2.25 | 15.34 | 34.20  | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 632668 | 216@0  | DFT_BPSK   | 23.83 | -2.25 | 21.58 | 143.88 | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 632668 | 108@54 | DFT_BPSK   | 24.56 | -2.25 | 22.31 | 170.22 | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 632668 | 1@1    | DFT_BPSK   | 23.81 | -2.25 | 21.56 | 143.22 | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 632668 | 1@215  | DFT_BPSK   | 23.59 | -2.25 | 21.34 | 136.14 | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 632668 | 216@0  | DFT_QPSK   | 23.36 | -2.25 | 21.11 | 129.12 | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 632668 | 108@54 | DFT_QPSK   | 24.59 | -2.25 | 22.34 | 171.40 | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 632668 | 1@1    | DFT_QPSK   | 23.78 | -2.25 | 21.53 | 142.23 | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 632668 | 1@215  | DFT_QPSK   | 23.59 | -2.25 | 21.34 | 136.14 | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 632668 | 216@0  | DFT_16QAM  | 22.35 | -2.25 | 20.10 | 102.33 | 1000 | PASS |



|                |    |    |        |        |            |       |       |       |        |      |      |
|----------------|----|----|--------|--------|------------|-------|-------|-------|--------|------|------|
| n77(3450-3550) | 30 | 80 | 632668 | 108@54 | DFT_16QAM  | 23.62 | -2.25 | 21.37 | 137.09 | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 632668 | 1@1    | DFT_16QAM  | 22.99 | -2.25 | 20.74 | 118.58 | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 632668 | 1@215  | DFT_16QAM  | 22.76 | -2.25 | 20.51 | 112.46 | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 632668 | 216@0  | DFT_64QAM  | 21.82 | -2.25 | 19.57 | 90.57  | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 632668 | 108@54 | DFT_64QAM  | 22.00 | -2.25 | 19.75 | 94.41  | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 632668 | 1@1    | DFT_64QAM  | 21.25 | -2.25 | 19.00 | 79.43  | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 632668 | 1@215  | DFT_64QAM  | 21.02 | -2.25 | 18.77 | 75.34  | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 632668 | 216@0  | DFT_256QAM | 20.04 | -2.25 | 17.79 | 60.12  | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 632668 | 108@54 | DFT_256QAM | 20.21 | -2.25 | 17.96 | 62.52  | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 632668 | 1@1    | DFT_256QAM | 19.66 | -2.25 | 17.41 | 55.08  | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 632668 | 1@215  | DFT_256QAM | 19.46 | -2.25 | 17.21 | 52.60  | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 632668 | 217@0  | CP_QPSK    | 21.30 | -2.25 | 19.05 | 80.35  | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 632668 | 109@54 | CP_QPSK    | 23.07 | -2.25 | 20.82 | 120.78 | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 632668 | 1@1    | CP_QPSK    | 22.34 | -2.25 | 20.09 | 102.09 | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 632668 | 1@215  | CP_QPSK    | 22.13 | -2.25 | 19.88 | 97.27  | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 632668 | 217@0  | CP_16QAM   | 21.32 | -2.25 | 19.07 | 80.72  | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 632668 | 109@54 | CP_16QAM   | 22.55 | -2.25 | 20.30 | 107.15 | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 632668 | 1@1    | CP_16QAM   | 21.76 | -2.25 | 19.51 | 89.33  | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 632668 | 1@215  | CP_16QAM   | 21.54 | -2.25 | 19.29 | 84.92  | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 632668 | 217@0  | CP_64QAM   | 21.01 | -2.25 | 18.76 | 75.16  | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 632668 | 109@54 | CP_64QAM   | 21.18 | -2.25 | 18.93 | 78.16  | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 632668 | 1@1    | CP_64QAM   | 20.57 | -2.25 | 18.32 | 67.92  | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 632668 | 1@215  | CP_64QAM   | 20.35 | -2.25 | 18.10 | 64.57  | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 632668 | 217@0  | CP_256QAM  | 17.99 | -2.25 | 15.74 | 37.50  | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 632668 | 109@54 | CP_256QAM  | 18.11 | -2.25 | 15.86 | 38.55  | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 632668 | 1@1    | CP_256QAM  | 17.83 | -2.25 | 15.58 | 36.14  | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 632668 | 1@215  | CP_256QAM  | 17.56 | -2.25 | 15.31 | 33.96  | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 633334 | 216@0  | DFT_BPSK   | 23.79 | -2.25 | 21.54 | 142.56 | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 633334 | 108@54 | DFT_BPSK   | 24.51 | -2.25 | 22.26 | 168.27 | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 633334 | 1@1    | DFT_BPSK   | 23.79 | -2.25 | 21.54 | 142.56 | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 633334 | 1@215  | DFT_BPSK   | 23.49 | -2.25 | 21.24 | 133.05 | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 633334 | 216@0  | DFT_QPSK   | 23.28 | -2.25 | 21.03 | 126.77 | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 633334 | 108@54 | DFT_QPSK   | 24.52 | -2.25 | 22.27 | 168.66 | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 633334 | 1@1    | DFT_QPSK   | 23.76 | -2.25 | 21.51 | 141.58 | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 633334 | 1@215  | DFT_QPSK   | 23.46 | -2.25 | 21.21 | 132.13 | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 633334 | 216@0  | DFT_16QAM  | 22.30 | -2.25 | 20.05 | 101.16 | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 633334 | 108@54 | DFT_16QAM  | 23.55 | -2.25 | 21.30 | 134.90 | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 633334 | 1@1    | DFT_16QAM  | 22.87 | -2.25 | 20.62 | 115.35 | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 633334 | 1@215  | DFT_16QAM  | 22.53 | -2.25 | 20.28 | 106.66 | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 633334 | 216@0  | DFT_64QAM  | 21.79 | -2.25 | 19.54 | 89.95  | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 633334 | 108@54 | DFT_64QAM  | 21.96 | -2.25 | 19.71 | 93.54  | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 633334 | 1@1    | DFT_64QAM  | 21.28 | -2.25 | 19.03 | 79.98  | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 633334 | 1@215  | DFT_64QAM  | 20.94 | -2.25 | 18.69 | 73.96  | 1000 | PASS |

|                |    |    |        |        |            |       |       |       |        |      |      |
|----------------|----|----|--------|--------|------------|-------|-------|-------|--------|------|------|
| n77(3450-3550) | 30 | 80 | 633334 | 216@0  | DFT_256QAM | 19.98 | -2.25 | 17.73 | 59.29  | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 633334 | 108@54 | DFT_256QAM | 20.13 | -2.25 | 17.88 | 61.38  | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 633334 | 1@1    | DFT_256QAM | 19.66 | -2.25 | 17.41 | 55.08  | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 633334 | 1@215  | DFT_256QAM | 19.35 | -2.25 | 17.10 | 51.29  | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 633334 | 217@0  | CP_QPSK    | 21.26 | -2.25 | 19.01 | 79.62  | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 633334 | 109@54 | CP_QPSK    | 22.99 | -2.25 | 20.74 | 118.58 | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 633334 | 1@1    | CP_QPSK    | 22.31 | -2.25 | 20.06 | 101.39 | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 633334 | 1@215  | CP_QPSK    | 21.96 | -2.25 | 19.71 | 93.54  | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 633334 | 217@0  | CP_16QAM   | 21.25 | -2.25 | 19.00 | 79.43  | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 633334 | 109@54 | CP_16QAM   | 22.49 | -2.25 | 20.24 | 105.68 | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 633334 | 1@1    | CP_16QAM   | 21.76 | -2.25 | 19.51 | 89.33  | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 633334 | 1@215  | CP_16QAM   | 21.44 | -2.25 | 19.19 | 82.99  | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 633334 | 217@0  | CP_64QAM   | 20.96 | -2.25 | 18.71 | 74.30  | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 633334 | 109@54 | CP_64QAM   | 21.12 | -2.25 | 18.87 | 77.09  | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 633334 | 1@1    | CP_64QAM   | 20.62 | -2.25 | 18.37 | 68.71  | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 633334 | 1@215  | CP_64QAM   | 20.29 | -2.25 | 18.04 | 63.68  | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 633334 | 217@0  | CP_256QAM  | 17.92 | -2.25 | 15.67 | 36.90  | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 633334 | 109@54 | CP_256QAM  | 18.05 | -2.25 | 15.80 | 38.02  | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 633334 | 1@1    | CP_256QAM  | 17.82 | -2.25 | 15.57 | 36.06  | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 633334 | 1@215  | CP_256QAM  | 17.51 | -2.25 | 15.26 | 33.57  | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 634000 | 216@0  | DFT_BPSK   | 23.72 | -2.25 | 21.47 | 140.28 | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 634000 | 108@54 | DFT_BPSK   | 24.42 | -2.25 | 22.17 | 164.82 | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 634000 | 1@1    | DFT_BPSK   | 23.81 | -2.25 | 21.56 | 143.22 | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 634000 | 1@215  | DFT_BPSK   | 23.39 | -2.25 | 21.14 | 130.02 | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 634000 | 216@0  | DFT_QPSK   | 23.22 | -2.25 | 20.97 | 125.03 | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 634000 | 108@54 | DFT_QPSK   | 24.44 | -2.25 | 22.19 | 165.58 | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 634000 | 1@1    | DFT_QPSK   | 23.77 | -2.25 | 21.52 | 141.91 | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 634000 | 1@215  | DFT_QPSK   | 23.37 | -2.25 | 21.12 | 129.42 | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 634000 | 216@0  | DFT_16QAM  | 22.22 | -2.25 | 19.97 | 99.31  | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 634000 | 108@54 | DFT_16QAM  | 23.47 | -2.25 | 21.22 | 132.43 | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 634000 | 1@1    | DFT_16QAM  | 22.87 | -2.25 | 20.62 | 115.35 | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 634000 | 1@215  | DFT_16QAM  | 22.43 | -2.25 | 20.18 | 104.23 | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 634000 | 216@0  | DFT_64QAM  | 21.72 | -2.25 | 19.47 | 88.51  | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 634000 | 108@54 | DFT_64QAM  | 21.89 | -2.25 | 19.64 | 92.04  | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 634000 | 1@1    | DFT_64QAM  | 21.42 | -2.25 | 19.17 | 82.60  | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 634000 | 1@215  | DFT_64QAM  | 21.05 | -2.25 | 18.80 | 75.86  | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 634000 | 216@0  | DFT_256QAM | 19.88 | -2.25 | 17.63 | 57.94  | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 634000 | 108@54 | DFT_256QAM | 20.04 | -2.25 | 17.79 | 60.12  | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 634000 | 1@1    | DFT_256QAM | 19.59 | -2.25 | 17.34 | 54.20  | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 634000 | 1@215  | DFT_256QAM | 19.17 | -2.25 | 16.92 | 49.20  | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 634000 | 217@0  | CP_QPSK    | 21.20 | -2.25 | 18.95 | 78.52  | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 634000 | 109@54 | CP_QPSK    | 22.88 | -2.25 | 20.63 | 115.61 | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 634000 | 1@1    | CP_QPSK    | 22.40 | -2.25 | 20.15 | 103.51 | 1000 | PASS |

|                |    |    |        |        |            |       |       |       |        |      |      |
|----------------|----|----|--------|--------|------------|-------|-------|-------|--------|------|------|
| n77(3450-3550) | 30 | 80 | 634000 | 1@215  | CP_QPSK    | 21.98 | -2.25 | 19.73 | 93.97  | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 634000 | 217@0  | CP_16QAM   | 21.22 | -2.25 | 18.97 | 78.89  | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 634000 | 109@54 | CP_16QAM   | 22.40 | -2.25 | 20.15 | 103.51 | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 634000 | 1@1    | CP_16QAM   | 21.71 | -2.25 | 19.46 | 88.31  | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 634000 | 1@215  | CP_16QAM   | 21.27 | -2.25 | 19.02 | 79.80  | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 634000 | 217@0  | CP_64QAM   | 20.91 | -2.25 | 18.66 | 73.45  | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 634000 | 109@54 | CP_64QAM   | 21.03 | -2.25 | 18.78 | 75.51  | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 634000 | 1@1    | CP_64QAM   | 20.50 | -2.25 | 18.25 | 66.83  | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 634000 | 1@215  | CP_64QAM   | 20.09 | -2.25 | 17.84 | 60.81  | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 634000 | 217@0  | CP_256QAM  | 17.85 | -2.25 | 15.60 | 36.31  | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 634000 | 109@54 | CP_256QAM  | 17.99 | -2.25 | 15.74 | 37.50  | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 634000 | 1@1    | CP_256QAM  | 17.87 | -2.25 | 15.62 | 36.48  | 1000 | PASS |
| n77(3450-3550) | 30 | 80 | 634000 | 1@215  | CP_256QAM  | 17.43 | -2.25 | 15.18 | 32.96  | 1000 | PASS |
| n77(3450-3550) | 30 | 90 | 633000 | 243@0  | DFT_BPSK   | 23.73 | -2.25 | 21.48 | 140.60 | 1000 | PASS |
| n77(3450-3550) | 30 | 90 | 633000 | 120@60 | DFT_BPSK   | 24.45 | -2.25 | 22.20 | 165.96 | 1000 | PASS |
| n77(3450-3550) | 30 | 90 | 633000 | 1@1    | DFT_BPSK   | 23.62 | -2.25 | 21.37 | 137.09 | 1000 | PASS |
| n77(3450-3550) | 30 | 90 | 633000 | 1@243  | DFT_BPSK   | 23.31 | -2.25 | 21.06 | 127.64 | 1000 | PASS |
| n77(3450-3550) | 30 | 90 | 633000 | 243@0  | DFT_QPSK   | 23.26 | -2.25 | 21.01 | 126.18 | 1000 | PASS |
| n77(3450-3550) | 30 | 90 | 633000 | 120@60 | DFT_QPSK   | 24.48 | -2.25 | 22.23 | 167.11 | 1000 | PASS |
| n77(3450-3550) | 30 | 90 | 633000 | 1@1    | DFT_QPSK   | 23.59 | -2.25 | 21.34 | 136.14 | 1000 | PASS |
| n77(3450-3550) | 30 | 90 | 633000 | 1@243  | DFT_QPSK   | 23.29 | -2.25 | 21.04 | 127.06 | 1000 | PASS |
| n77(3450-3550) | 30 | 90 | 633000 | 243@0  | DFT_16QAM  | 22.28 | -2.25 | 20.03 | 100.69 | 1000 | PASS |
| n77(3450-3550) | 30 | 90 | 633000 | 120@60 | DFT_16QAM  | 23.52 | -2.25 | 21.27 | 133.97 | 1000 | PASS |
| n77(3450-3550) | 30 | 90 | 633000 | 1@1    | DFT_16QAM  | 22.67 | -2.25 | 20.42 | 110.15 | 1000 | PASS |
| n77(3450-3550) | 30 | 90 | 633000 | 1@243  | DFT_16QAM  | 22.35 | -2.25 | 20.10 | 102.33 | 1000 | PASS |
| n77(3450-3550) | 30 | 90 | 633000 | 243@0  | DFT_64QAM  | 21.74 | -2.25 | 19.49 | 88.92  | 1000 | PASS |
| n77(3450-3550) | 30 | 90 | 633000 | 120@60 | DFT_64QAM  | 21.95 | -2.25 | 19.70 | 93.33  | 1000 | PASS |
| n77(3450-3550) | 30 | 90 | 633000 | 1@1    | DFT_64QAM  | 21.29 | -2.25 | 19.04 | 80.17  | 1000 | PASS |
| n77(3450-3550) | 30 | 90 | 633000 | 1@243  | DFT_64QAM  | 20.99 | -2.25 | 18.74 | 74.82  | 1000 | PASS |
| n77(3450-3550) | 30 | 90 | 633000 | 243@0  | DFT_256QAM | 19.96 | -2.25 | 17.71 | 59.02  | 1000 | PASS |
| n77(3450-3550) | 30 | 90 | 633000 | 120@60 | DFT_256QAM | 20.07 | -2.25 | 17.82 | 60.53  | 1000 | PASS |
| n77(3450-3550) | 30 | 90 | 633000 | 1@1    | DFT_256QAM | 19.45 | -2.25 | 17.20 | 52.48  | 1000 | PASS |
| n77(3450-3550) | 30 | 90 | 633000 | 1@243  | DFT_256QAM | 19.17 | -2.25 | 16.92 | 49.20  | 1000 | PASS |
| n77(3450-3550) | 30 | 90 | 633000 | 245@0  | CP_QPSK    | 21.24 | -2.25 | 18.99 | 79.25  | 1000 | PASS |
| n77(3450-3550) | 30 | 90 | 633000 | 123@61 | CP_QPSK    | 22.95 | -2.25 | 20.70 | 117.49 | 1000 | PASS |
| n77(3450-3550) | 30 | 90 | 633000 | 1@1    | CP_QPSK    | 22.21 | -2.25 | 19.96 | 99.08  | 1000 | PASS |
| n77(3450-3550) | 30 | 90 | 633000 | 1@243  | CP_QPSK    | 21.93 | -2.25 | 19.68 | 92.90  | 1000 | PASS |
| n77(3450-3550) | 30 | 90 | 633000 | 245@0  | CP_16QAM   | 21.23 | -2.25 | 18.98 | 79.07  | 1000 | PASS |
| n77(3450-3550) | 30 | 90 | 633000 | 123@61 | CP_16QAM   | 22.46 | -2.25 | 20.21 | 104.95 | 1000 | PASS |
| n77(3450-3550) | 30 | 90 | 633000 | 1@1    | CP_16QAM   | 21.54 | -2.25 | 19.29 | 84.92  | 1000 | PASS |
| n77(3450-3550) | 30 | 90 | 633000 | 1@243  | CP_16QAM   | 21.25 | -2.25 | 19.00 | 79.43  | 1000 | PASS |
| n77(3450-3550) | 30 | 90 | 633000 | 245@0  | CP_64QAM   | 20.96 | -2.25 | 18.71 | 74.30  | 1000 | PASS |
| n77(3450-3550) | 30 | 90 | 633000 | 123@61 | CP_64QAM   | 21.11 | -2.25 | 18.86 | 76.91  | 1000 | PASS |

|                |    |    |        |        |            |       |       |       |        |      |      |
|----------------|----|----|--------|--------|------------|-------|-------|-------|--------|------|------|
| n77(3450-3550) | 30 | 90 | 633000 | 1@1    | CP_64QAM   | 20.29 | -2.25 | 18.04 | 63.68  | 1000 | PASS |
| n77(3450-3550) | 30 | 90 | 633000 | 1@243  | CP_64QAM   | 19.99 | -2.25 | 17.74 | 59.43  | 1000 | PASS |
| n77(3450-3550) | 30 | 90 | 633000 | 245@0  | CP_256QAM  | 17.91 | -2.25 | 15.66 | 36.81  | 1000 | PASS |
| n77(3450-3550) | 30 | 90 | 633000 | 123@61 | CP_256QAM  | 18.07 | -2.25 | 15.82 | 38.19  | 1000 | PASS |
| n77(3450-3550) | 30 | 90 | 633000 | 1@1    | CP_256QAM  | 17.69 | -2.25 | 15.44 | 34.99  | 1000 | PASS |
| n77(3450-3550) | 30 | 90 | 633000 | 1@243  | CP_256QAM  | 17.36 | -2.25 | 15.11 | 32.43  | 1000 | PASS |
| n77(3450-3550) | 30 | 90 | 633334 | 243@0  | DFT_BPSK   | 23.86 | -2.25 | 21.61 | 144.88 | 1000 | PASS |
| n77(3450-3550) | 30 | 90 | 633334 | 120@60 | DFT_BPSK   | 24.56 | -2.25 | 22.31 | 170.22 | 1000 | PASS |
| n77(3450-3550) | 30 | 90 | 633334 | 1@1    | DFT_BPSK   | 23.71 | -2.25 | 21.46 | 139.96 | 1000 | PASS |
| n77(3450-3550) | 30 | 90 | 633334 | 1@243  | DFT_BPSK   | 23.37 | -2.25 | 21.12 | 129.42 | 1000 | PASS |
| n77(3450-3550) | 30 | 90 | 633334 | 243@0  | DFT_QPSK   | 23.35 | -2.25 | 21.10 | 128.82 | 1000 | PASS |
| n77(3450-3550) | 30 | 90 | 633334 | 120@60 | DFT_QPSK   | 24.59 | -2.25 | 22.34 | 171.40 | 1000 | PASS |
| n77(3450-3550) | 30 | 90 | 633334 | 1@1    | DFT_QPSK   | 23.65 | -2.25 | 21.40 | 138.04 | 1000 | PASS |
| n77(3450-3550) | 30 | 90 | 633334 | 1@243  | DFT_QPSK   | 23.31 | -2.25 | 21.06 | 127.64 | 1000 | PASS |
| n77(3450-3550) | 30 | 90 | 633334 | 243@0  | DFT_16QAM  | 22.35 | -2.25 | 20.10 | 102.33 | 1000 | PASS |
| n77(3450-3550) | 30 | 90 | 633334 | 120@60 | DFT_16QAM  | 23.59 | -2.25 | 21.34 | 136.14 | 1000 | PASS |
| n77(3450-3550) | 30 | 90 | 633334 | 1@1    | DFT_16QAM  | 22.75 | -2.25 | 20.50 | 112.20 | 1000 | PASS |
| n77(3450-3550) | 30 | 90 | 633334 | 1@243  | DFT_16QAM  | 22.40 | -2.25 | 20.15 | 103.51 | 1000 | PASS |
| n77(3450-3550) | 30 | 90 | 633334 | 243@0  | DFT_64QAM  | 21.83 | -2.25 | 19.58 | 90.78  | 1000 | PASS |
| n77(3450-3550) | 30 | 90 | 633334 | 120@60 | DFT_64QAM  | 22.08 | -2.25 | 19.83 | 96.16  | 1000 | PASS |
| n77(3450-3550) | 30 | 90 | 633334 | 1@1    | DFT_64QAM  | 21.06 | -2.25 | 18.81 | 76.03  | 1000 | PASS |
| n77(3450-3550) | 30 | 90 | 633334 | 1@243  | DFT_64QAM  | 20.73 | -2.25 | 18.48 | 70.47  | 1000 | PASS |
| n77(3450-3550) | 30 | 90 | 633334 | 243@0  | DFT_256QAM | 20.01 | -2.25 | 17.76 | 59.70  | 1000 | PASS |
| n77(3450-3550) | 30 | 90 | 633334 | 120@60 | DFT_256QAM | 20.17 | -2.25 | 17.92 | 61.94  | 1000 | PASS |
| n77(3450-3550) | 30 | 90 | 633334 | 1@1    | DFT_256QAM | 19.60 | -2.25 | 17.35 | 54.33  | 1000 | PASS |
| n77(3450-3550) | 30 | 90 | 633334 | 1@243  | DFT_256QAM | 19.29 | -2.25 | 17.04 | 50.58  | 1000 | PASS |
| n77(3450-3550) | 30 | 90 | 633334 | 245@0  | CP_QPSK    | 21.32 | -2.25 | 19.07 | 80.72  | 1000 | PASS |
| n77(3450-3550) | 30 | 90 | 633334 | 123@61 | CP_QPSK    | 23.05 | -2.25 | 20.80 | 120.23 | 1000 | PASS |
| n77(3450-3550) | 30 | 90 | 633334 | 1@1    | CP_QPSK    | 22.22 | -2.25 | 19.97 | 99.31  | 1000 | PASS |
| n77(3450-3550) | 30 | 90 | 633334 | 1@243  | CP_QPSK    | 21.86 | -2.25 | 19.61 | 91.41  | 1000 | PASS |
| n77(3450-3550) | 30 | 90 | 633334 | 245@0  | CP_16QAM   | 21.31 | -2.25 | 19.06 | 80.54  | 1000 | PASS |
| n77(3450-3550) | 30 | 90 | 633334 | 123@61 | CP_16QAM   | 22.53 | -2.25 | 20.28 | 106.66 | 1000 | PASS |
| n77(3450-3550) | 30 | 90 | 633334 | 1@1    | CP_16QAM   | 21.71 | -2.25 | 19.46 | 88.31  | 1000 | PASS |
| n77(3450-3550) | 30 | 90 | 633334 | 1@243  | CP_16QAM   | 21.32 | -2.25 | 19.07 | 80.72  | 1000 | PASS |
| n77(3450-3550) | 30 | 90 | 633334 | 245@0  | CP_64QAM   | 21.00 | -2.25 | 18.75 | 74.99  | 1000 | PASS |
| n77(3450-3550) | 30 | 90 | 633334 | 123@61 | CP_64QAM   | 21.13 | -2.25 | 18.88 | 77.27  | 1000 | PASS |
| n77(3450-3550) | 30 | 90 | 633334 | 1@1    | CP_64QAM   | 20.58 | -2.25 | 18.33 | 68.08  | 1000 | PASS |
| n77(3450-3550) | 30 | 90 | 633334 | 1@243  | CP_64QAM   | 20.21 | -2.25 | 17.96 | 62.52  | 1000 | PASS |
| n77(3450-3550) | 30 | 90 | 633334 | 245@0  | CP_256QAM  | 17.97 | -2.25 | 15.72 | 37.33  | 1000 | PASS |
| n77(3450-3550) | 30 | 90 | 633334 | 123@61 | CP_256QAM  | 18.13 | -2.25 | 15.88 | 38.73  | 1000 | PASS |
| n77(3450-3550) | 30 | 90 | 633334 | 1@1    | CP_256QAM  | 17.78 | -2.25 | 15.53 | 35.73  | 1000 | PASS |
| n77(3450-3550) | 30 | 90 | 633334 | 1@243  | CP_256QAM  | 17.39 | -2.25 | 15.14 | 32.66  | 1000 | PASS |
| n77(3450-3550) | 30 | 90 | 633666 | 243@0  | DFT_BPSK   | 23.87 | -2.25 | 21.62 | 145.21 | 1000 | PASS |

|                |    |     |        |        |            |       |       |       |        |      |      |
|----------------|----|-----|--------|--------|------------|-------|-------|-------|--------|------|------|
| n77(3450-3550) | 30 | 90  | 633666 | 120@60 | DFT_BPSK   | 24.59 | -2.25 | 22.34 | 171.40 | 1000 | PASS |
| n77(3450-3550) | 30 | 90  | 633666 | 1@1    | DFT_BPSK   | 23.81 | -2.25 | 21.56 | 143.22 | 1000 | PASS |
| n77(3450-3550) | 30 | 90  | 633666 | 1@243  | DFT_BPSK   | 23.36 | -2.25 | 21.11 | 129.12 | 1000 | PASS |
| n77(3450-3550) | 30 | 90  | 633666 | 243@0  | DFT_QPSK   | 23.39 | -2.25 | 21.14 | 130.02 | 1000 | PASS |
| n77(3450-3550) | 30 | 90  | 633666 | 120@60 | DFT_QPSK   | 24.60 | -2.25 | 22.35 | 171.79 | 1000 | PASS |
| n77(3450-3550) | 30 | 90  | 633666 | 1@1    | DFT_QPSK   | 23.76 | -2.25 | 21.51 | 141.58 | 1000 | PASS |
| n77(3450-3550) | 30 | 90  | 633666 | 1@243  | DFT_QPSK   | 23.34 | -2.25 | 21.09 | 128.53 | 1000 | PASS |
| n77(3450-3550) | 30 | 90  | 633666 | 243@0  | DFT_16QAM  | 22.37 | -2.25 | 20.12 | 102.80 | 1000 | PASS |
| n77(3450-3550) | 30 | 90  | 633666 | 120@60 | DFT_16QAM  | 23.59 | -2.25 | 21.34 | 136.14 | 1000 | PASS |
| n77(3450-3550) | 30 | 90  | 633666 | 1@1    | DFT_16QAM  | 22.82 | -2.25 | 20.57 | 114.02 | 1000 | PASS |
| n77(3450-3550) | 30 | 90  | 633666 | 1@243  | DFT_16QAM  | 22.40 | -2.25 | 20.15 | 103.51 | 1000 | PASS |
| n77(3450-3550) | 30 | 90  | 633666 | 243@0  | DFT_64QAM  | 21.84 | -2.25 | 19.59 | 90.99  | 1000 | PASS |
| n77(3450-3550) | 30 | 90  | 633666 | 120@60 | DFT_64QAM  | 22.06 | -2.25 | 19.81 | 95.72  | 1000 | PASS |
| n77(3450-3550) | 30 | 90  | 633666 | 1@1    | DFT_64QAM  | 21.21 | -2.25 | 18.96 | 78.70  | 1000 | PASS |
| n77(3450-3550) | 30 | 90  | 633666 | 1@243  | DFT_64QAM  | 20.75 | -2.25 | 18.50 | 70.79  | 1000 | PASS |
| n77(3450-3550) | 30 | 90  | 633666 | 243@0  | DFT_256QAM | 20.02 | -2.25 | 17.77 | 59.84  | 1000 | PASS |
| n77(3450-3550) | 30 | 90  | 633666 | 120@60 | DFT_256QAM | 20.20 | -2.25 | 17.95 | 62.37  | 1000 | PASS |
| n77(3450-3550) | 30 | 90  | 633666 | 1@1    | DFT_256QAM | 19.68 | -2.25 | 17.43 | 55.34  | 1000 | PASS |
| n77(3450-3550) | 30 | 90  | 633666 | 1@243  | DFT_256QAM | 19.25 | -2.25 | 17.00 | 50.12  | 1000 | PASS |
| n77(3450-3550) | 30 | 90  | 633666 | 245@0  | CP_QPSK    | 21.31 | -2.25 | 19.06 | 80.54  | 1000 | PASS |
| n77(3450-3550) | 30 | 90  | 633666 | 123@61 | CP_QPSK    | 23.07 | -2.25 | 20.82 | 120.78 | 1000 | PASS |
| n77(3450-3550) | 30 | 90  | 633666 | 1@1    | CP_QPSK    | 22.28 | -2.25 | 20.03 | 100.69 | 1000 | PASS |
| n77(3450-3550) | 30 | 90  | 633666 | 1@243  | CP_QPSK    | 21.90 | -2.25 | 19.65 | 92.26  | 1000 | PASS |
| n77(3450-3550) | 30 | 90  | 633666 | 245@0  | CP_16QAM   | 21.31 | -2.25 | 19.06 | 80.54  | 1000 | PASS |
| n77(3450-3550) | 30 | 90  | 633666 | 123@61 | CP_16QAM   | 22.53 | -2.25 | 20.28 | 106.66 | 1000 | PASS |
| n77(3450-3550) | 30 | 90  | 633666 | 1@1    | CP_16QAM   | 21.78 | -2.25 | 19.53 | 89.74  | 1000 | PASS |
| n77(3450-3550) | 30 | 90  | 633666 | 1@243  | CP_16QAM   | 21.39 | -2.25 | 19.14 | 82.04  | 1000 | PASS |
| n77(3450-3550) | 30 | 90  | 633666 | 245@0  | CP_64QAM   | 20.99 | -2.25 | 18.74 | 74.82  | 1000 | PASS |
| n77(3450-3550) | 30 | 90  | 633666 | 123@61 | CP_64QAM   | 21.14 | -2.25 | 18.89 | 77.45  | 1000 | PASS |
| n77(3450-3550) | 30 | 90  | 633666 | 1@1    | CP_64QAM   | 20.64 | -2.25 | 18.39 | 69.02  | 1000 | PASS |
| n77(3450-3550) | 30 | 90  | 633666 | 1@243  | CP_64QAM   | 20.26 | -2.25 | 18.01 | 63.24  | 1000 | PASS |
| n77(3450-3550) | 30 | 90  | 633666 | 245@0  | CP_256QAM  | 17.93 | -2.25 | 15.68 | 36.98  | 1000 | PASS |
| n77(3450-3550) | 30 | 90  | 633666 | 123@61 | CP_256QAM  | 18.10 | -2.25 | 15.85 | 38.46  | 1000 | PASS |
| n77(3450-3550) | 30 | 90  | 633666 | 1@1    | CP_256QAM  | 17.75 | -2.25 | 15.50 | 35.48  | 1000 | PASS |
| n77(3450-3550) | 30 | 90  | 633666 | 1@243  | CP_256QAM  | 17.42 | -2.25 | 15.17 | 32.89  | 1000 | PASS |
| n77(3450-3550) | 30 | 100 | 633334 | 270@0  | DFT_BPSK   | 23.75 | -2.25 | 21.50 | 141.25 | 1000 | PASS |
| n77(3450-3550) | 30 | 100 | 633334 | 135@67 | DFT_BPSK   | 24.52 | -2.25 | 22.27 | 168.66 | 1000 | PASS |
| n77(3450-3550) | 30 | 100 | 633334 | 1@1    | DFT_BPSK   | 23.59 | -2.25 | 21.34 | 136.14 | 1000 | PASS |
| n77(3450-3550) | 30 | 100 | 633334 | 1@271  | DFT_BPSK   | 23.14 | -2.25 | 20.89 | 122.74 | 1000 | PASS |
| n77(3450-3550) | 30 | 100 | 633334 | 270@0  | DFT_QPSK   | 23.24 | -2.25 | 20.99 | 125.60 | 1000 | PASS |
| n77(3450-3550) | 30 | 100 | 633334 | 135@67 | DFT_QPSK   | 24.55 | -2.25 | 22.30 | 169.82 | 1000 | PASS |
| n77(3450-3550) | 30 | 100 | 633334 | 1@1    | DFT_QPSK   | 23.54 | -2.25 | 21.29 | 134.59 | 1000 | PASS |
| n77(3450-3550) | 30 | 100 | 633334 | 1@271  | DFT_QPSK   | 23.12 | -2.25 | 20.87 | 122.18 | 1000 | PASS |



|                |    |     |        |        |            |       |       |       |        |      |      |
|----------------|----|-----|--------|--------|------------|-------|-------|-------|--------|------|------|
| n77(3450-3550) | 30 | 100 | 633334 | 270@0  | DFT_16QAM  | 22.23 | -2.25 | 19.98 | 99.54  | 1000 | PASS |
| n77(3450-3550) | 30 | 100 | 633334 | 135@67 | DFT_16QAM  | 23.53 | -2.25 | 21.28 | 134.28 | 1000 | PASS |
| n77(3450-3550) | 30 | 100 | 633334 | 1@1    | DFT_16QAM  | 22.64 | -2.25 | 20.39 | 109.40 | 1000 | PASS |
| n77(3450-3550) | 30 | 100 | 633334 | 1@271  | DFT_16QAM  | 22.19 | -2.25 | 19.94 | 98.63  | 1000 | PASS |
| n77(3450-3550) | 30 | 100 | 633334 | 270@0  | DFT_64QAM  | 21.71 | -2.25 | 19.46 | 88.31  | 1000 | PASS |
| n77(3450-3550) | 30 | 100 | 633334 | 135@67 | DFT_64QAM  | 22.01 | -2.25 | 19.76 | 94.62  | 1000 | PASS |
| n77(3450-3550) | 30 | 100 | 633334 | 1@1    | DFT_64QAM  | 20.92 | -2.25 | 18.67 | 73.62  | 1000 | PASS |
| n77(3450-3550) | 30 | 100 | 633334 | 1@271  | DFT_64QAM  | 20.50 | -2.25 | 18.25 | 66.83  | 1000 | PASS |
| n77(3450-3550) | 30 | 100 | 633334 | 270@0  | DFT_256QAM | 19.93 | -2.25 | 17.68 | 58.61  | 1000 | PASS |
| n77(3450-3550) | 30 | 100 | 633334 | 135@67 | DFT_256QAM | 20.15 | -2.25 | 17.90 | 61.66  | 1000 | PASS |
| n77(3450-3550) | 30 | 100 | 633334 | 1@1    | DFT_256QAM | 19.51 | -2.25 | 17.26 | 53.21  | 1000 | PASS |
| n77(3450-3550) | 30 | 100 | 633334 | 1@271  | DFT_256QAM | 19.09 | -2.25 | 16.84 | 48.31  | 1000 | PASS |
| n77(3450-3550) | 30 | 100 | 633334 | 273@0  | CP_QPSK    | 21.19 | -2.25 | 18.94 | 78.34  | 1000 | PASS |
| n77(3450-3550) | 30 | 100 | 633334 | 137@68 | CP_QPSK    | 23.04 | -2.25 | 20.79 | 119.95 | 1000 | PASS |
| n77(3450-3550) | 30 | 100 | 633334 | 1@1    | CP_QPSK    | 22.06 | -2.25 | 19.81 | 95.72  | 1000 | PASS |
| n77(3450-3550) | 30 | 100 | 633334 | 1@271  | CP_QPSK    | 21.64 | -2.25 | 19.39 | 86.90  | 1000 | PASS |
| n77(3450-3550) | 30 | 100 | 633334 | 273@0  | CP_16QAM   | 21.17 | -2.25 | 18.92 | 77.98  | 1000 | PASS |
| n77(3450-3550) | 30 | 100 | 633334 | 137@68 | CP_16QAM   | 22.53 | -2.25 | 20.28 | 106.66 | 1000 | PASS |
| n77(3450-3550) | 30 | 100 | 633334 | 1@1    | CP_16QAM   | 21.46 | -2.25 | 19.21 | 83.37  | 1000 | PASS |
| n77(3450-3550) | 30 | 100 | 633334 | 1@271  | CP_16QAM   | 21.00 | -2.25 | 18.75 | 74.99  | 1000 | PASS |
| n77(3450-3550) | 30 | 100 | 633334 | 273@0  | CP_64QAM   | 20.89 | -2.25 | 18.64 | 73.11  | 1000 | PASS |
| n77(3450-3550) | 30 | 100 | 633334 | 137@68 | CP_64QAM   | 21.18 | -2.25 | 18.93 | 78.16  | 1000 | PASS |
| n77(3450-3550) | 30 | 100 | 633334 | 1@1    | CP_64QAM   | 20.38 | -2.25 | 18.13 | 65.01  | 1000 | PASS |
| n77(3450-3550) | 30 | 100 | 633334 | 1@271  | CP_64QAM   | 19.97 | -2.25 | 17.72 | 59.16  | 1000 | PASS |
| n77(3450-3550) | 30 | 100 | 633334 | 273@0  | CP_256QAM  | 17.86 | -2.25 | 15.61 | 36.39  | 1000 | PASS |
| n77(3450-3550) | 30 | 100 | 633334 | 137@68 | CP_256QAM  | 18.10 | -2.25 | 15.85 | 38.46  | 1000 | PASS |
| n77(3450-3550) | 30 | 100 | 633334 | 1@1    | CP_256QAM  | 17.59 | -2.25 | 15.34 | 34.20  | 1000 | PASS |
| n77(3450-3550) | 30 | 100 | 633334 | 1@271  | CP_256QAM  | 17.14 | -2.25 | 14.89 | 30.83  | 1000 | PASS |

| Band           | SCS<br>(kHz) | Bandwidth<br>(MHz) | UL<br>Channel | RB<br>Allocation | Modulation | Power<br>(dBm) | GT -<br>Lc<br>(dB) | EIRP<br>(dBm) | EIRP<br>(mW) | EIRP<br>Limit<br>(mW) | Verdict |
|----------------|--------------|--------------------|---------------|------------------|------------|----------------|--------------------|---------------|--------------|-----------------------|---------|
| n78(3450-3550) | 30           | 10                 | 630334        | 24@0             | DFT_BPSK   | 27.57          | -2.25              | 25.32         | 340.41       | 1000                  | PASS    |
| n78(3450-3550) | 30           | 10                 | 630334        | 12@6             | DFT_BPSK   | 28.05          | -2.25              | 25.8          | 380.19       | 1000                  | PASS    |
| n78(3450-3550) | 30           | 10                 | 630334        | 1@1              | DFT_BPSK   | 27.97          | -2.25              | 25.72         | 373.25       | 1000                  | PASS    |
| n78(3450-3550) | 30           | 10                 | 630334        | 1@22             | DFT_BPSK   | 27.88          | -2.25              | 25.63         | 365.59       | 1000                  | PASS    |
| n78(3450-3550) | 30           | 10                 | 630334        | 24@0             | DFT_QPSK   | 27.05          | -2.25              | 24.8          | 302          | 1000                  | PASS    |
| n78(3450-3550) | 30           | 10                 | 630334        | 12@6             | DFT_QPSK   | 28.07          | -2.25              | 25.82         | 381.94       | 1000                  | PASS    |
| n78(3450-3550) | 30           | 10                 | 630334        | 1@1              | DFT_QPSK   | 27.98          | -2.25              | 25.73         | 374.11       | 1000                  | PASS    |
| n78(3450-3550) | 30           | 10                 | 630334        | 1@22             | DFT_QPSK   | 27.89          | -2.25              | 25.64         | 366.44       | 1000                  | PASS    |
| n78(3450-3550) | 30           | 10                 | 630334        | 24@0             | DFT_16QAM  | 26.08          | -2.25              | 23.83         | 241.55       | 1000                  | PASS    |
| n78(3450-3550) | 30           | 10                 | 630334        | 12@6             | DFT_16QAM  | 27.04          | -2.25              | 24.79         | 301.3        | 1000                  | PASS    |
| n78(3450-3550) | 30           | 10                 | 630334        | 1@1              | DFT_16QAM  | 26.67          | -2.25              | 24.42         | 276.69       | 1000                  | PASS    |

|                |    |    |        |      |            |       |       |       |        |      |      |
|----------------|----|----|--------|------|------------|-------|-------|-------|--------|------|------|
| n78(3450-3550) | 30 | 10 | 630334 | 1@22 | DFT_16QAM  | 26.66 | -2.25 | 24.41 | 276.06 | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 630334 | 24@0 | DFT_64QAM  | 25.58 | -2.25 | 23.33 | 215.28 | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 630334 | 12@6 | DFT_64QAM  | 25.55 | -2.25 | 23.3  | 213.8  | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 630334 | 1@1  | DFT_64QAM  | 25.42 | -2.25 | 23.17 | 207.49 | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 630334 | 1@22 | DFT_64QAM  | 25.32 | -2.25 | 23.07 | 202.77 | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 630334 | 24@0 | DFT_256QAM | 23.54 | -2.25 | 21.29 | 134.59 | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 630334 | 12@6 | DFT_256QAM | 23.49 | -2.25 | 21.24 | 133.05 | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 630334 | 1@1  | DFT_256QAM | 23.49 | -2.25 | 21.24 | 133.05 | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 630334 | 1@22 | DFT_256QAM | 23.46 | -2.25 | 21.21 | 132.13 | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 630334 | 24@0 | CP_QPSK    | 25.04 | -2.25 | 22.79 | 190.11 | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 630334 | 12@6 | CP_QPSK    | 26.63 | -2.25 | 24.38 | 274.16 | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 630334 | 1@1  | CP_QPSK    | 26.55 | -2.25 | 24.3  | 269.15 | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 630334 | 1@22 | CP_QPSK    | 26.51 | -2.25 | 24.26 | 266.69 | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 630334 | 24@0 | CP_16QAM   | 25.06 | -2.25 | 22.81 | 190.99 | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 630334 | 12@6 | CP_16QAM   | 25.98 | -2.25 | 23.73 | 236.05 | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 630334 | 1@1  | CP_16QAM   | 26.01 | -2.25 | 23.76 | 237.68 | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 630334 | 1@22 | CP_16QAM   | 25.96 | -2.25 | 23.71 | 234.96 | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 630334 | 24@0 | CP_64QAM   | 24.59 | -2.25 | 22.34 | 171.4  | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 630334 | 12@6 | CP_64QAM   | 24.46 | -2.25 | 22.21 | 166.34 | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 630334 | 1@1  | CP_64QAM   | 24.66 | -2.25 | 22.41 | 174.18 | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 630334 | 1@22 | CP_64QAM   | 24.62 | -2.25 | 22.37 | 172.58 | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 630334 | 24@0 | CP_256QAM  | 21.51 | -2.25 | 19.26 | 84.33  | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 630334 | 12@6 | CP_256QAM  | 21.47 | -2.25 | 19.22 | 83.56  | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 630334 | 1@1  | CP_256QAM  | 21.6  | -2.25 | 19.35 | 86.1   | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 630334 | 1@22 | CP_256QAM  | 21.55 | -2.25 | 19.3  | 85.11  | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 633334 | 24@0 | DFT_BPSK   | 27.35 | -2.25 | 25.1  | 323.59 | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 633334 | 12@6 | DFT_BPSK   | 27.86 | -2.25 | 25.61 | 363.92 | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 633334 | 1@1  | DFT_BPSK   | 27.76 | -2.25 | 25.51 | 355.63 | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 633334 | 1@22 | DFT_BPSK   | 27.73 | -2.25 | 25.48 | 353.18 | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 633334 | 24@0 | DFT_QPSK   | 26.91 | -2.25 | 24.66 | 292.42 | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 633334 | 12@6 | DFT_QPSK   | 27.87 | -2.25 | 25.62 | 364.75 | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 633334 | 1@1  | DFT_QPSK   | 27.8  | -2.25 | 25.55 | 358.92 | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 633334 | 1@22 | DFT_QPSK   | 27.7  | -2.25 | 25.45 | 350.75 | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 633334 | 24@0 | DFT_16QAM  | 25.89 | -2.25 | 23.64 | 231.21 | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 633334 | 12@6 | DFT_16QAM  | 26.89 | -2.25 | 24.64 | 291.07 | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 633334 | 1@1  | DFT_16QAM  | 26.53 | -2.25 | 24.28 | 267.92 | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 633334 | 1@22 | DFT_16QAM  | 26.43 | -2.25 | 24.18 | 261.82 | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 633334 | 24@0 | DFT_64QAM  | 25.37 | -2.25 | 23.12 | 205.12 | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 633334 | 12@6 | DFT_64QAM  | 25.33 | -2.25 | 23.08 | 203.24 | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 633334 | 1@1  | DFT_64QAM  | 25.16 | -2.25 | 22.91 | 195.43 | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 633334 | 1@22 | DFT_64QAM  | 25.07 | -2.25 | 22.82 | 191.43 | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 633334 | 24@0 | DFT_256QAM | 23.36 | -2.25 | 21.11 | 129.12 | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 633334 | 12@6 | DFT_256QAM | 23.39 | -2.25 | 21.14 | 130.02 | 1000 | PASS |

|                |    |    |        |      |            |       |       |       |        |      |      |
|----------------|----|----|--------|------|------------|-------|-------|-------|--------|------|------|
| n78(3450-3550) | 30 | 10 | 633334 | 1@1  | DFT_256QAM | 23.31 | -2.25 | 21.06 | 127.64 | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 633334 | 1@22 | DFT_256QAM | 23.24 | -2.25 | 20.99 | 125.6  | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 633334 | 24@0 | CP_QPSK    | 24.86 | -2.25 | 22.61 | 182.39 | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 633334 | 12@6 | CP_QPSK    | 26.46 | -2.25 | 24.21 | 263.63 | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 633334 | 1@1  | CP_QPSK    | 26.4  | -2.25 | 24.15 | 260.02 | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 633334 | 1@22 | CP_QPSK    | 26.3  | -2.25 | 24.05 | 254.1  | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 633334 | 24@0 | CP_16QAM   | 24.84 | -2.25 | 22.59 | 181.55 | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 633334 | 12@6 | CP_16QAM   | 25.83 | -2.25 | 23.58 | 228.03 | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 633334 | 1@1  | CP_16QAM   | 25.86 | -2.25 | 23.61 | 229.61 | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 633334 | 1@22 | CP_16QAM   | 25.76 | -2.25 | 23.51 | 224.39 | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 633334 | 24@0 | CP_64QAM   | 24.45 | -2.25 | 22.2  | 165.96 | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 633334 | 12@6 | CP_64QAM   | 24.34 | -2.25 | 22.09 | 161.81 | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 633334 | 1@1  | CP_64QAM   | 24.53 | -2.25 | 22.28 | 169.04 | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 633334 | 1@22 | CP_64QAM   | 24.46 | -2.25 | 22.21 | 166.34 | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 633334 | 24@0 | CP_256QAM  | 21.29 | -2.25 | 19.04 | 80.17  | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 633334 | 12@6 | CP_256QAM  | 21.32 | -2.25 | 19.07 | 80.72  | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 633334 | 1@1  | CP_256QAM  | 21.47 | -2.25 | 19.22 | 83.56  | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 633334 | 1@22 | CP_256QAM  | 21.32 | -2.25 | 19.07 | 80.72  | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 636332 | 24@0 | DFT_BPSK   | 27.07 | -2.25 | 24.82 | 303.39 | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 636332 | 12@6 | DFT_BPSK   | 27.58 | -2.25 | 25.33 | 341.19 | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 636332 | 1@1  | DFT_BPSK   | 27.5  | -2.25 | 25.25 | 334.97 | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 636332 | 1@22 | DFT_BPSK   | 27.42 | -2.25 | 25.17 | 328.85 | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 636332 | 24@0 | DFT_QPSK   | 26.6  | -2.25 | 24.35 | 272.27 | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 636332 | 12@6 | DFT_QPSK   | 27.63 | -2.25 | 25.38 | 345.14 | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 636332 | 1@1  | DFT_QPSK   | 27.53 | -2.25 | 25.28 | 337.29 | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 636332 | 1@22 | DFT_QPSK   | 27.47 | -2.25 | 25.22 | 332.66 | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 636332 | 24@0 | DFT_16QAM  | 25.61 | -2.25 | 23.36 | 216.77 | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 636332 | 12@6 | DFT_16QAM  | 26.61 | -2.25 | 24.36 | 272.9  | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 636332 | 1@1  | DFT_16QAM  | 26.27 | -2.25 | 24.02 | 252.35 | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 636332 | 1@22 | DFT_16QAM  | 26.18 | -2.25 | 23.93 | 247.17 | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 636332 | 24@0 | DFT_64QAM  | 25.05 | -2.25 | 22.8  | 190.55 | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 636332 | 12@6 | DFT_64QAM  | 25.08 | -2.25 | 22.83 | 191.87 | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 636332 | 1@1  | DFT_64QAM  | 24.9  | -2.25 | 22.65 | 184.08 | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 636332 | 1@22 | DFT_64QAM  | 24.89 | -2.25 | 22.64 | 183.65 | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 636332 | 24@0 | DFT_256QAM | 23.04 | -2.25 | 20.79 | 119.95 | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 636332 | 12@6 | DFT_256QAM | 23.14 | -2.25 | 20.89 | 122.74 | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 636332 | 1@1  | DFT_256QAM | 23.1  | -2.25 | 20.85 | 121.62 | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 636332 | 1@22 | DFT_256QAM | 23.01 | -2.25 | 20.76 | 119.12 | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 636332 | 24@0 | CP_QPSK    | 24.58 | -2.25 | 22.33 | 171    | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 636332 | 12@6 | CP_QPSK    | 26.14 | -2.25 | 23.89 | 244.91 | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 636332 | 1@1  | CP_QPSK    | 26.11 | -2.25 | 23.86 | 243.22 | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 636332 | 1@22 | CP_QPSK    | 26.03 | -2.25 | 23.78 | 238.78 | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 636332 | 24@0 | CP_16QAM   | 24.58 | -2.25 | 22.33 | 171    | 1000 | PASS |

|                |    |    |        |      |            |       |       |       |        |      |      |
|----------------|----|----|--------|------|------------|-------|-------|-------|--------|------|------|
| n78(3450-3550) | 30 | 10 | 636332 | 12@6 | CP_16QAM   | 25.55 | -2.25 | 23.3  | 213.8  | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 636332 | 1@1  | CP_16QAM   | 25.55 | -2.25 | 23.3  | 213.8  | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 636332 | 1@22 | CP_16QAM   | 25.49 | -2.25 | 23.24 | 210.86 | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 636332 | 24@0 | CP_64QAM   | 24.11 | -2.25 | 21.86 | 153.46 | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 636332 | 12@6 | CP_64QAM   | 24.04 | -2.25 | 21.79 | 151.01 | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 636332 | 1@1  | CP_64QAM   | 24.25 | -2.25 | 22    | 158.49 | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 636332 | 1@22 | CP_64QAM   | 24.14 | -2.25 | 21.89 | 154.53 | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 636332 | 24@0 | CP_256QAM  | 21.16 | -2.25 | 18.91 | 77.8   | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 636332 | 12@6 | CP_256QAM  | 21.18 | -2.25 | 18.93 | 78.16  | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 636332 | 1@1  | CP_256QAM  | 21.28 | -2.25 | 19.03 | 79.98  | 1000 | PASS |
| n78(3450-3550) | 30 | 10 | 636332 | 1@22 | CP_256QAM  | 21.19 | -2.25 | 18.94 | 78.34  | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 630500 | 36@0 | DFT_BPSK   | 27.59 | -2.25 | 25.34 | 341.98 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 630500 | 18@9 | DFT_BPSK   | 28.08 | -2.25 | 25.83 | 382.82 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 630500 | 1@1  | DFT_BPSK   | 28    | -2.25 | 25.75 | 375.84 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 630500 | 1@36 | DFT_BPSK   | 27.85 | -2.25 | 25.6  | 363.08 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 630500 | 36@0 | DFT_QPSK   | 27.06 | -2.25 | 24.81 | 302.69 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 630500 | 18@9 | DFT_QPSK   | 28.08 | -2.25 | 25.83 | 382.82 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 630500 | 1@1  | DFT_QPSK   | 28.05 | -2.25 | 25.8  | 380.19 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 630500 | 1@36 | DFT_QPSK   | 27.95 | -2.25 | 25.7  | 371.54 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 630500 | 36@0 | DFT_16QAM  | 26.07 | -2.25 | 23.82 | 240.99 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 630500 | 18@9 | DFT_16QAM  | 27.06 | -2.25 | 24.81 | 302.69 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 630500 | 1@1  | DFT_16QAM  | 26.96 | -2.25 | 24.71 | 295.8  | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 630500 | 1@36 | DFT_16QAM  | 26.8  | -2.25 | 24.55 | 285.1  | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 630500 | 36@0 | DFT_64QAM  | 25.57 | -2.25 | 23.32 | 214.78 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 630500 | 18@9 | DFT_64QAM  | 25.5  | -2.25 | 23.25 | 211.35 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 630500 | 1@1  | DFT_64QAM  | 25.61 | -2.25 | 23.36 | 216.77 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 630500 | 1@36 | DFT_64QAM  | 25.48 | -2.25 | 23.23 | 210.38 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 630500 | 36@0 | DFT_256QAM | 23.54 | -2.25 | 21.29 | 134.59 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 630500 | 18@9 | DFT_256QAM | 23.55 | -2.25 | 21.3  | 134.9  | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 630500 | 1@1  | DFT_256QAM | 23.39 | -2.25 | 21.14 | 130.02 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 630500 | 1@36 | DFT_256QAM | 23.3  | -2.25 | 21.05 | 127.35 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 630500 | 38@0 | CP_QPSK    | 25.04 | -2.25 | 22.79 | 190.11 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 630500 | 19@9 | CP_QPSK    | 26.58 | -2.25 | 24.33 | 271.02 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 630500 | 1@1  | CP_QPSK    | 26.57 | -2.25 | 24.32 | 270.4  | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 630500 | 1@36 | CP_QPSK    | 26.49 | -2.25 | 24.24 | 265.46 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 630500 | 38@0 | CP_16QAM   | 25.02 | -2.25 | 22.77 | 189.23 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 630500 | 19@9 | CP_16QAM   | 26.01 | -2.25 | 23.76 | 237.68 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 630500 | 1@1  | CP_16QAM   | 26.05 | -2.25 | 23.8  | 239.88 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 630500 | 1@36 | CP_16QAM   | 25.98 | -2.25 | 23.73 | 236.05 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 630500 | 38@0 | CP_64QAM   | 24.57 | -2.25 | 22.32 | 170.61 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 630500 | 19@9 | CP_64QAM   | 24.5  | -2.25 | 22.25 | 167.88 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 630500 | 1@1  | CP_64QAM   | 24.93 | -2.25 | 22.68 | 185.35 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 630500 | 1@36 | CP_64QAM   | 24.77 | -2.25 | 22.52 | 178.65 | 1000 | PASS |

|                |    |    |        |      |            |       |       |       |        |      |      |
|----------------|----|----|--------|------|------------|-------|-------|-------|--------|------|------|
| n78(3450-3550) | 30 | 15 | 630500 | 38@0 | CP_256QAM  | 21.5  | -2.25 | 19.25 | 84.14  | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 630500 | 19@9 | CP_256QAM  | 21.53 | -2.25 | 19.28 | 84.72  | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 630500 | 1@1  | CP_256QAM  | 21.52 | -2.25 | 19.27 | 84.53  | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 630500 | 1@36 | CP_256QAM  | 21.42 | -2.25 | 19.17 | 82.6   | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 633334 | 36@0 | DFT_BPSK   | 27.36 | -2.25 | 25.11 | 324.34 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 633334 | 18@9 | DFT_BPSK   | 27.84 | -2.25 | 25.59 | 362.24 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 633334 | 1@1  | DFT_BPSK   | 27.81 | -2.25 | 25.56 | 359.75 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 633334 | 1@36 | DFT_BPSK   | 27.68 | -2.25 | 25.43 | 349.14 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 633334 | 36@0 | DFT_QPSK   | 26.88 | -2.25 | 24.63 | 290.4  | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 633334 | 18@9 | DFT_QPSK   | 27.91 | -2.25 | 25.66 | 368.13 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 633334 | 1@1  | DFT_QPSK   | 27.85 | -2.25 | 25.6  | 363.08 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 633334 | 1@36 | DFT_QPSK   | 27.7  | -2.25 | 25.45 | 350.75 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 633334 | 36@0 | DFT_16QAM  | 25.87 | -2.25 | 23.62 | 230.14 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 633334 | 18@9 | DFT_16QAM  | 26.88 | -2.25 | 24.63 | 290.4  | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 633334 | 1@1  | DFT_16QAM  | 26.66 | -2.25 | 24.41 | 276.06 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 633334 | 1@36 | DFT_16QAM  | 26.51 | -2.25 | 24.26 | 266.69 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 633334 | 36@0 | DFT_64QAM  | 25.36 | -2.25 | 23.11 | 204.64 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 633334 | 18@9 | DFT_64QAM  | 25.32 | -2.25 | 23.07 | 202.77 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 633334 | 1@1  | DFT_64QAM  | 25.27 | -2.25 | 23.02 | 200.45 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 633334 | 1@36 | DFT_64QAM  | 25.15 | -2.25 | 22.9  | 194.98 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 633334 | 36@0 | DFT_256QAM | 23.35 | -2.25 | 21.1  | 128.82 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 633334 | 18@9 | DFT_256QAM | 23.37 | -2.25 | 21.12 | 129.42 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 633334 | 1@1  | DFT_256QAM | 23.37 | -2.25 | 21.12 | 129.42 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 633334 | 1@36 | DFT_256QAM | 23.2  | -2.25 | 20.95 | 124.45 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 633334 | 38@0 | CP_QPSK    | 24.86 | -2.25 | 22.61 | 182.39 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 633334 | 19@9 | CP_QPSK    | 26.39 | -2.25 | 24.14 | 259.42 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 633334 | 1@1  | CP_QPSK    | 26.44 | -2.25 | 24.19 | 262.42 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 633334 | 1@36 | CP_QPSK    | 26.28 | -2.25 | 24.03 | 252.93 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 633334 | 38@0 | CP_16QAM   | 24.82 | -2.25 | 22.57 | 180.72 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 633334 | 19@9 | CP_16QAM   | 25.85 | -2.25 | 23.6  | 229.09 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 633334 | 1@1  | CP_16QAM   | 25.84 | -2.25 | 23.59 | 228.56 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 633334 | 1@36 | CP_16QAM   | 25.72 | -2.25 | 23.47 | 222.33 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 633334 | 38@0 | CP_64QAM   | 24.31 | -2.25 | 22.06 | 160.69 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 633334 | 19@9 | CP_64QAM   | 24.37 | -2.25 | 22.12 | 162.93 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 633334 | 1@1  | CP_64QAM   | 24.5  | -2.25 | 22.25 | 167.88 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 633334 | 1@36 | CP_64QAM   | 24.38 | -2.25 | 22.13 | 163.31 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 633334 | 38@0 | CP_256QAM  | 21.3  | -2.25 | 19.05 | 80.35  | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 633334 | 19@9 | CP_256QAM  | 21.3  | -2.25 | 19.05 | 80.35  | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 633334 | 1@1  | CP_256QAM  | 21.43 | -2.25 | 19.18 | 82.79  | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 633334 | 1@36 | CP_256QAM  | 21.31 | -2.25 | 19.06 | 80.54  | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 636166 | 36@0 | DFT_BPSK   | 27.11 | -2.25 | 24.86 | 306.2  | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 636166 | 18@9 | DFT_BPSK   | 27.59 | -2.25 | 25.34 | 341.98 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 636166 | 1@1  | DFT_BPSK   | 27.54 | -2.25 | 25.29 | 338.06 | 1000 | PASS |



|                |    |    |        |       |            |       |       |       |        |      |      |
|----------------|----|----|--------|-------|------------|-------|-------|-------|--------|------|------|
| n78(3450-3550) | 30 | 15 | 636166 | 1@36  | DFT_BPSK   | 27.41 | -2.25 | 25.16 | 328.1  | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 636166 | 36@0  | DFT_QPSK   | 26.62 | -2.25 | 24.37 | 273.53 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 636166 | 18@9  | DFT_QPSK   | 27.6  | -2.25 | 25.35 | 342.77 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 636166 | 1@1   | DFT_QPSK   | 27.58 | -2.25 | 25.33 | 341.19 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 636166 | 1@36  | DFT_QPSK   | 27.4  | -2.25 | 25.15 | 327.34 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 636166 | 36@0  | DFT_16QAM  | 25.61 | -2.25 | 23.36 | 216.77 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 636166 | 18@9  | DFT_16QAM  | 26.65 | -2.25 | 24.4  | 275.42 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 636166 | 1@1   | DFT_16QAM  | 26.29 | -2.25 | 24.04 | 253.51 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 636166 | 1@36  | DFT_16QAM  | 26.15 | -2.25 | 23.9  | 245.47 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 636166 | 36@0  | DFT_64QAM  | 25.07 | -2.25 | 22.82 | 191.43 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 636166 | 18@9  | DFT_64QAM  | 25.03 | -2.25 | 22.78 | 189.67 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 636166 | 1@1   | DFT_64QAM  | 24.95 | -2.25 | 22.7  | 186.21 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 636166 | 1@36  | DFT_64QAM  | 24.83 | -2.25 | 22.58 | 181.13 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 636166 | 36@0  | DFT_256QAM | 23.1  | -2.25 | 20.85 | 121.62 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 636166 | 18@9  | DFT_256QAM | 23.09 | -2.25 | 20.84 | 121.34 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 636166 | 1@1   | DFT_256QAM | 23.09 | -2.25 | 20.84 | 121.34 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 636166 | 1@36  | DFT_256QAM | 22.98 | -2.25 | 20.73 | 118.3  | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 636166 | 38@0  | CP_QPSK    | 24.62 | -2.25 | 22.37 | 172.58 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 636166 | 19@9  | CP_QPSK    | 26.11 | -2.25 | 23.86 | 243.22 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 636166 | 1@1   | CP_QPSK    | 26.13 | -2.25 | 23.88 | 244.34 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 636166 | 1@36  | CP_QPSK    | 25.99 | -2.25 | 23.74 | 236.59 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 636166 | 38@0  | CP_16QAM   | 24.57 | -2.25 | 22.32 | 170.61 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 636166 | 19@9  | CP_16QAM   | 25.58 | -2.25 | 23.33 | 215.28 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 636166 | 1@1   | CP_16QAM   | 25.64 | -2.25 | 23.39 | 218.27 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 636166 | 1@36  | CP_16QAM   | 25.43 | -2.25 | 23.18 | 207.97 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 636166 | 38@0  | CP_64QAM   | 24.04 | -2.25 | 21.79 | 151.01 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 636166 | 19@9  | CP_64QAM   | 24.1  | -2.25 | 21.85 | 153.11 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 636166 | 1@1   | CP_64QAM   | 24.27 | -2.25 | 22.02 | 159.22 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 636166 | 1@36  | CP_64QAM   | 24.13 | -2.25 | 21.88 | 154.17 | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 636166 | 38@0  | CP_256QAM  | 21.16 | -2.25 | 18.91 | 77.8   | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 636166 | 19@9  | CP_256QAM  | 21.14 | -2.25 | 18.89 | 77.45  | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 636166 | 1@1   | CP_256QAM  | 21.3  | -2.25 | 19.05 | 80.35  | 1000 | PASS |
| n78(3450-3550) | 30 | 15 | 636166 | 1@36  | CP_256QAM  | 21.17 | -2.25 | 18.92 | 77.98  | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 630668 | 50@0  | DFT_BPSK   | 27.56 | -2.25 | 25.31 | 339.63 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 630668 | 25@12 | DFT_BPSK   | 28.02 | -2.25 | 25.77 | 377.57 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 630668 | 1@1   | DFT_BPSK   | 27.9  | -2.25 | 25.65 | 367.28 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 630668 | 1@49  | DFT_BPSK   | 27.8  | -2.25 | 25.55 | 358.92 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 630668 | 50@0  | DFT_QPSK   | 27.09 | -2.25 | 24.84 | 304.79 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 630668 | 25@12 | DFT_QPSK   | 28.08 | -2.25 | 25.83 | 382.82 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 630668 | 1@1   | DFT_QPSK   | 27.96 | -2.25 | 25.71 | 372.39 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 630668 | 1@49  | DFT_QPSK   | 27.82 | -2.25 | 25.57 | 360.58 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 630668 | 50@0  | DFT_16QAM  | 26.06 | -2.25 | 23.81 | 240.44 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 630668 | 25@12 | DFT_16QAM  | 27.06 | -2.25 | 24.81 | 302.69 | 1000 | PASS |

|                |    |    |        |       |            |       |       |       |        |      |      |
|----------------|----|----|--------|-------|------------|-------|-------|-------|--------|------|------|
| n78(3450-3550) | 30 | 20 | 630668 | 1@1   | DFT_16QAM  | 26.71 | -2.25 | 24.46 | 279.25 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 630668 | 1@49  | DFT_16QAM  | 26.54 | -2.25 | 24.29 | 268.53 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 630668 | 50@0  | DFT_64QAM  | 25.54 | -2.25 | 23.29 | 213.3  | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 630668 | 25@12 | DFT_64QAM  | 25.55 | -2.25 | 23.3  | 213.8  | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 630668 | 1@1   | DFT_64QAM  | 25.34 | -2.25 | 23.09 | 203.7  | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 630668 | 1@49  | DFT_64QAM  | 25.2  | -2.25 | 22.95 | 197.24 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 630668 | 50@0  | DFT_256QAM | 23.51 | -2.25 | 21.26 | 133.66 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 630668 | 25@12 | DFT_256QAM | 23.49 | -2.25 | 21.24 | 133.05 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 630668 | 1@1   | DFT_256QAM | 23.52 | -2.25 | 21.27 | 133.97 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 630668 | 1@49  | DFT_256QAM | 23.41 | -2.25 | 21.16 | 130.62 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 630668 | 51@0  | CP_QPSK    | 25.07 | -2.25 | 22.82 | 191.43 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 630668 | 25@12 | CP_QPSK    | 26.55 | -2.25 | 24.3  | 269.15 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 630668 | 1@1   | CP_QPSK    | 26.53 | -2.25 | 24.28 | 267.92 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 630668 | 1@49  | CP_QPSK    | 26.49 | -2.25 | 24.24 | 265.46 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 630668 | 51@0  | CP_16QAM   | 25.01 | -2.25 | 22.76 | 188.8  | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 630668 | 25@12 | CP_16QAM   | 25.96 | -2.25 | 23.71 | 234.96 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 630668 | 1@1   | CP_16QAM   | 26.02 | -2.25 | 23.77 | 238.23 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 630668 | 1@49  | CP_16QAM   | 25.86 | -2.25 | 23.61 | 229.61 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 630668 | 51@0  | CP_64QAM   | 24.5  | -2.25 | 22.25 | 167.88 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 630668 | 25@12 | CP_64QAM   | 24.53 | -2.25 | 22.28 | 169.04 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 630668 | 1@1   | CP_64QAM   | 24.66 | -2.25 | 22.41 | 174.18 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 630668 | 1@49  | CP_64QAM   | 24.52 | -2.25 | 22.27 | 168.66 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 630668 | 51@0  | CP_256QAM  | 21.47 | -2.25 | 19.22 | 83.56  | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 630668 | 25@12 | CP_256QAM  | 21.44 | -2.25 | 19.19 | 82.99  | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 630668 | 1@1   | CP_256QAM  | 21.61 | -2.25 | 19.36 | 86.3   | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 630668 | 1@49  | CP_256QAM  | 21.48 | -2.25 | 19.23 | 83.75  | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 633334 | 50@0  | DFT_BPSK   | 27.34 | -2.25 | 25.09 | 322.85 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 633334 | 25@12 | DFT_BPSK   | 27.89 | -2.25 | 25.64 | 366.44 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 633334 | 1@1   | DFT_BPSK   | 27.78 | -2.25 | 25.53 | 357.27 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 633334 | 1@49  | DFT_BPSK   | 27.61 | -2.25 | 25.36 | 343.56 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 633334 | 50@0  | DFT_QPSK   | 26.88 | -2.25 | 24.63 | 290.4  | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 633334 | 25@12 | DFT_QPSK   | 27.88 | -2.25 | 25.63 | 365.59 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 633334 | 1@1   | DFT_QPSK   | 27.78 | -2.25 | 25.53 | 357.27 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 633334 | 1@49  | DFT_QPSK   | 27.62 | -2.25 | 25.37 | 344.35 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 633334 | 50@0  | DFT_16QAM  | 25.82 | -2.25 | 23.57 | 227.51 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 633334 | 25@12 | DFT_16QAM  | 26.89 | -2.25 | 24.64 | 291.07 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 633334 | 1@1   | DFT_16QAM  | 26.52 | -2.25 | 24.27 | 267.3  | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 633334 | 1@49  | DFT_16QAM  | 26.33 | -2.25 | 24.08 | 255.86 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 633334 | 50@0  | DFT_64QAM  | 25.37 | -2.25 | 23.12 | 205.12 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 633334 | 25@12 | DFT_64QAM  | 25.36 | -2.25 | 23.11 | 204.64 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 633334 | 1@1   | DFT_64QAM  | 25.2  | -2.25 | 22.95 | 197.24 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 633334 | 1@49  | DFT_64QAM  | 25.03 | -2.25 | 22.78 | 189.67 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 633334 | 50@0  | DFT_256QAM | 23.33 | -2.25 | 21.08 | 128.23 | 1000 | PASS |

|                |    |    |        |       |            |       |       |       |        |      |      |
|----------------|----|----|--------|-------|------------|-------|-------|-------|--------|------|------|
| n78(3450-3550) | 30 | 20 | 633334 | 25@12 | DFT_256QAM | 23.33 | -2.25 | 21.08 | 128.23 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 633334 | 1@1   | DFT_256QAM | 23.38 | -2.25 | 21.13 | 129.72 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 633334 | 1@49  | DFT_256QAM | 23.2  | -2.25 | 20.95 | 124.45 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 633334 | 51@0  | CP_QPSK    | 24.87 | -2.25 | 22.62 | 182.81 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 633334 | 25@12 | CP_QPSK    | 26.38 | -2.25 | 24.13 | 258.82 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 633334 | 1@1   | CP_QPSK    | 26.38 | -2.25 | 24.13 | 258.82 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 633334 | 1@49  | CP_QPSK    | 26.17 | -2.25 | 23.92 | 246.6  | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 633334 | 51@0  | CP_16QAM   | 24.82 | -2.25 | 22.57 | 180.72 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 633334 | 25@12 | CP_16QAM   | 25.79 | -2.25 | 23.54 | 225.94 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 633334 | 1@1   | CP_16QAM   | 25.87 | -2.25 | 23.62 | 230.14 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 633334 | 1@49  | CP_16QAM   | 25.66 | -2.25 | 23.41 | 219.28 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 633334 | 51@0  | CP_64QAM   | 24.26 | -2.25 | 22.01 | 158.85 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 633334 | 25@12 | CP_64QAM   | 24.34 | -2.25 | 22.09 | 161.81 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 633334 | 1@1   | CP_64QAM   | 24.48 | -2.25 | 22.23 | 167.11 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 633334 | 1@49  | CP_64QAM   | 24.29 | -2.25 | 22.04 | 159.96 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 633334 | 51@0  | CP_256QAM  | 21.27 | -2.25 | 19.02 | 79.8   | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 633334 | 25@12 | CP_256QAM  | 21.29 | -2.25 | 19.04 | 80.17  | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 633334 | 1@1   | CP_256QAM  | 21.44 | -2.25 | 19.19 | 82.99  | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 633334 | 1@49  | CP_256QAM  | 21.22 | -2.25 | 18.97 | 78.89  | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 636000 | 50@0  | DFT_BPSK   | 27.11 | -2.25 | 24.86 | 306.2  | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 636000 | 25@12 | DFT_BPSK   | 27.65 | -2.25 | 25.4  | 346.74 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 636000 | 1@1   | DFT_BPSK   | 27.61 | -2.25 | 25.36 | 343.56 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 636000 | 1@49  | DFT_BPSK   | 27.34 | -2.25 | 25.09 | 322.85 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 636000 | 50@0  | DFT_QPSK   | 26.61 | -2.25 | 24.36 | 272.9  | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 636000 | 25@12 | DFT_QPSK   | 27.66 | -2.25 | 25.41 | 347.54 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 636000 | 1@1   | DFT_QPSK   | 27.59 | -2.25 | 25.34 | 341.98 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 636000 | 1@49  | DFT_QPSK   | 27.36 | -2.25 | 25.11 | 324.34 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 636000 | 50@0  | DFT_16QAM  | 25.56 | -2.25 | 23.31 | 214.29 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 636000 | 25@12 | DFT_16QAM  | 26.67 | -2.25 | 24.42 | 276.69 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 636000 | 1@1   | DFT_16QAM  | 26.33 | -2.25 | 24.08 | 255.86 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 636000 | 1@49  | DFT_16QAM  | 26.04 | -2.25 | 23.79 | 239.33 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 636000 | 50@0  | DFT_64QAM  | 25.08 | -2.25 | 22.83 | 191.87 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 636000 | 25@12 | DFT_64QAM  | 25.12 | -2.25 | 22.87 | 193.64 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 636000 | 1@1   | DFT_64QAM  | 25.01 | -2.25 | 22.76 | 188.8  | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 636000 | 1@49  | DFT_64QAM  | 24.77 | -2.25 | 22.52 | 178.65 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 636000 | 50@0  | DFT_256QAM | 23.1  | -2.25 | 20.85 | 121.62 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 636000 | 25@12 | DFT_256QAM | 23.05 | -2.25 | 20.8  | 120.23 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 636000 | 1@1   | DFT_256QAM | 23.13 | -2.25 | 20.88 | 122.46 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 636000 | 1@49  | DFT_256QAM | 22.91 | -2.25 | 20.66 | 116.41 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 636000 | 51@0  | CP_QPSK    | 24.59 | -2.25 | 22.34 | 171.4  | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 636000 | 25@12 | CP_QPSK    | 26.14 | -2.25 | 23.89 | 244.91 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 636000 | 1@1   | CP_QPSK    | 26.15 | -2.25 | 23.9  | 245.47 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 636000 | 1@49  | CP_QPSK    | 25.89 | -2.25 | 23.64 | 231.21 | 1000 | PASS |

|                |    |    |        |       |            |       |       |       |        |      |      |
|----------------|----|----|--------|-------|------------|-------|-------|-------|--------|------|------|
| n78(3450-3550) | 30 | 20 | 636000 | 51@0  | CP_16QAM   | 24.58 | -2.25 | 22.33 | 171    | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 636000 | 25@12 | CP_16QAM   | 25.56 | -2.25 | 23.31 | 214.29 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 636000 | 1@1   | CP_16QAM   | 25.65 | -2.25 | 23.4  | 218.78 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 636000 | 1@49  | CP_16QAM   | 25.42 | -2.25 | 23.17 | 207.49 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 636000 | 51@0  | CP_64QAM   | 24.06 | -2.25 | 21.81 | 151.71 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 636000 | 25@12 | CP_64QAM   | 24.07 | -2.25 | 21.82 | 152.05 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 636000 | 1@1   | CP_64QAM   | 24.24 | -2.25 | 21.99 | 158.12 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 636000 | 1@49  | CP_64QAM   | 24.03 | -2.25 | 21.78 | 150.66 | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 636000 | 51@0  | CP_256QAM  | 21.18 | -2.25 | 18.93 | 78.16  | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 636000 | 25@12 | CP_256QAM  | 21.23 | -2.25 | 18.98 | 79.07  | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 636000 | 1@1   | CP_256QAM  | 21.35 | -2.25 | 19.1  | 81.28  | 1000 | PASS |
| n78(3450-3550) | 30 | 20 | 636000 | 1@49  | CP_256QAM  | 21.08 | -2.25 | 18.83 | 76.38  | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 631334 | 100@0 | DFT_BPSK   | 27.43 | -2.25 | 25.18 | 329.61 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 631334 | 50@25 | DFT_BPSK   | 27.98 | -2.25 | 25.73 | 374.11 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 631334 | 1@1   | DFT_BPSK   | 27.52 | -2.25 | 25.27 | 336.51 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 631334 | 1@104 | DFT_BPSK   | 27.39 | -2.25 | 25.14 | 326.59 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 631334 | 100@0 | DFT_QPSK   | 26.94 | -2.25 | 24.69 | 294.44 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 631334 | 50@25 | DFT_QPSK   | 28.02 | -2.25 | 25.77 | 377.57 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 631334 | 1@1   | DFT_QPSK   | 27.51 | -2.25 | 25.26 | 335.74 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 631334 | 1@104 | DFT_QPSK   | 27.36 | -2.25 | 25.11 | 324.34 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 631334 | 100@0 | DFT_16QAM  | 25.92 | -2.25 | 23.67 | 232.81 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 631334 | 50@25 | DFT_16QAM  | 27.02 | -2.25 | 24.77 | 299.92 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 631334 | 1@1   | DFT_16QAM  | 26.29 | -2.25 | 24.04 | 253.51 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 631334 | 1@104 | DFT_16QAM  | 26.1  | -2.25 | 23.85 | 242.66 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 631334 | 100@0 | DFT_64QAM  | 25.43 | -2.25 | 23.18 | 207.97 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 631334 | 50@25 | DFT_64QAM  | 25.45 | -2.25 | 23.2  | 208.93 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 631334 | 1@1   | DFT_64QAM  | 25.01 | -2.25 | 22.76 | 188.8  | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 631334 | 1@104 | DFT_64QAM  | 24.81 | -2.25 | 22.56 | 180.3  | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 631334 | 100@0 | DFT_256QAM | 23.37 | -2.25 | 21.12 | 129.42 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 631334 | 50@25 | DFT_256QAM | 23.48 | -2.25 | 21.23 | 132.74 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 631334 | 1@1   | DFT_256QAM | 23.15 | -2.25 | 20.9  | 123.03 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 631334 | 1@104 | DFT_256QAM | 23    | -2.25 | 20.75 | 118.85 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 631334 | 106@0 | CP_QPSK    | 24.93 | -2.25 | 22.68 | 185.35 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 631334 | 53@26 | CP_QPSK    | 26.47 | -2.25 | 24.22 | 264.24 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 631334 | 1@1   | CP_QPSK    | 26.11 | -2.25 | 23.86 | 243.22 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 631334 | 1@104 | CP_QPSK    | 25.89 | -2.25 | 23.64 | 231.21 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 631334 | 106@0 | CP_16QAM   | 24.89 | -2.25 | 22.64 | 183.65 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 631334 | 53@26 | CP_16QAM   | 26.01 | -2.25 | 23.76 | 237.68 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 631334 | 1@1   | CP_16QAM   | 25.62 | -2.25 | 23.37 | 217.27 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 631334 | 1@104 | CP_16QAM   | 25.43 | -2.25 | 23.18 | 207.97 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 631334 | 106@0 | CP_64QAM   | 24.39 | -2.25 | 22.14 | 163.68 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 631334 | 53@26 | CP_64QAM   | 24.42 | -2.25 | 22.17 | 164.82 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 631334 | 1@1   | CP_64QAM   | 24.26 | -2.25 | 22.01 | 158.85 | 1000 | PASS |

|                |    |    |        |       |            |       |       |       |        |      |      |
|----------------|----|----|--------|-------|------------|-------|-------|-------|--------|------|------|
| n78(3450-3550) | 30 | 40 | 631334 | 1@104 | CP_64QAM   | 24.06 | -2.25 | 21.81 | 151.71 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 631334 | 106@0 | CP_256QAM  | 21.34 | -2.25 | 19.09 | 81.1   | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 631334 | 53@26 | CP_256QAM  | 21.46 | -2.25 | 19.21 | 83.37  | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 631334 | 1@1   | CP_256QAM  | 21.21 | -2.25 | 18.96 | 78.7   | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 631334 | 1@104 | CP_256QAM  | 21.09 | -2.25 | 18.84 | 76.56  | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 633334 | 100@0 | DFT_BPSK   | 27.26 | -2.25 | 25.01 | 316.96 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 633334 | 50@25 | DFT_BPSK   | 27.84 | -2.25 | 25.59 | 362.24 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 633334 | 1@1   | DFT_BPSK   | 27.51 | -2.25 | 25.26 | 335.74 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 633334 | 1@104 | DFT_BPSK   | 27.06 | -2.25 | 24.81 | 302.69 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 633334 | 100@0 | DFT_QPSK   | 26.75 | -2.25 | 24.5  | 281.84 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 633334 | 50@25 | DFT_QPSK   | 27.83 | -2.25 | 25.58 | 361.41 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 633334 | 1@1   | DFT_QPSK   | 27.53 | -2.25 | 25.28 | 337.29 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 633334 | 1@104 | DFT_QPSK   | 27.1  | -2.25 | 24.85 | 305.49 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 633334 | 100@0 | DFT_16QAM  | 25.79 | -2.25 | 23.54 | 225.94 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 633334 | 50@25 | DFT_16QAM  | 26.84 | -2.25 | 24.59 | 287.74 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 633334 | 1@1   | DFT_16QAM  | 26.41 | -2.25 | 24.16 | 260.62 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 633334 | 1@104 | DFT_16QAM  | 25.99 | -2.25 | 23.74 | 236.59 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 633334 | 100@0 | DFT_64QAM  | 25.26 | -2.25 | 23.01 | 199.99 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 633334 | 50@25 | DFT_64QAM  | 25.26 | -2.25 | 23.01 | 199.99 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 633334 | 1@1   | DFT_64QAM  | 25.11 | -2.25 | 22.86 | 193.2  | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 633334 | 1@104 | DFT_64QAM  | 24.69 | -2.25 | 22.44 | 175.39 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 633334 | 100@0 | DFT_256QAM | 23.23 | -2.25 | 20.98 | 125.31 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 633334 | 50@25 | DFT_256QAM | 23.29 | -2.25 | 21.04 | 127.06 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 633334 | 1@1   | DFT_256QAM | 22.98 | -2.25 | 20.73 | 118.3  | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 633334 | 1@104 | DFT_256QAM | 22.57 | -2.25 | 20.32 | 107.65 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 633334 | 106@0 | CP_QPSK    | 24.73 | -2.25 | 22.48 | 177.01 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 633334 | 53@26 | CP_QPSK    | 26.25 | -2.25 | 24    | 251.19 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 633334 | 1@1   | CP_QPSK    | 26.04 | -2.25 | 23.79 | 239.33 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 633334 | 1@104 | CP_QPSK    | 25.61 | -2.25 | 23.36 | 216.77 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 633334 | 106@0 | CP_16QAM   | 24.67 | -2.25 | 22.42 | 174.58 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 633334 | 53@26 | CP_16QAM   | 25.77 | -2.25 | 23.52 | 224.91 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 633334 | 1@1   | CP_16QAM   | 25.73 | -2.25 | 23.48 | 222.84 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 633334 | 1@104 | CP_16QAM   | 25.23 | -2.25 | 22.98 | 198.61 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 633334 | 106@0 | CP_64QAM   | 24.16 | -2.25 | 21.91 | 155.24 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 633334 | 53@26 | CP_64QAM   | 24.26 | -2.25 | 22.01 | 158.85 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 633334 | 1@1   | CP_64QAM   | 24.48 | -2.25 | 22.23 | 167.11 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 633334 | 1@104 | CP_64QAM   | 24.01 | -2.25 | 21.76 | 149.97 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 633334 | 106@0 | CP_256QAM  | 21.25 | -2.25 | 19    | 79.43  | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 633334 | 53@26 | CP_256QAM  | 21.39 | -2.25 | 19.14 | 82.04  | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 633334 | 1@1   | CP_256QAM  | 21.17 | -2.25 | 18.92 | 77.98  | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 633334 | 1@104 | CP_256QAM  | 20.83 | -2.25 | 18.58 | 72.11  | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 635332 | 100@0 | DFT_BPSK   | 26.91 | -2.25 | 24.66 | 292.42 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 635332 | 50@25 | DFT_BPSK   | 27.55 | -2.25 | 25.3  | 338.84 | 1000 | PASS |



|                |    |    |        |       |            |       |       |       |        |      |      |
|----------------|----|----|--------|-------|------------|-------|-------|-------|--------|------|------|
| n78(3450-3550) | 30 | 40 | 635332 | 1@1   | DFT_BPSK   | 27.17 | -2.25 | 24.92 | 310.46 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 635332 | 1@104 | DFT_BPSK   | 26.73 | -2.25 | 24.48 | 280.54 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 635332 | 100@0 | DFT_QPSK   | 26.41 | -2.25 | 24.16 | 260.62 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 635332 | 50@25 | DFT_QPSK   | 27.56 | -2.25 | 25.31 | 339.63 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 635332 | 1@1   | DFT_QPSK   | 27.17 | -2.25 | 24.92 | 310.46 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 635332 | 1@104 | DFT_QPSK   | 26.73 | -2.25 | 24.48 | 280.54 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 635332 | 100@0 | DFT_16QAM  | 25.44 | -2.25 | 23.19 | 208.45 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 635332 | 50@25 | DFT_16QAM  | 26.55 | -2.25 | 24.3  | 269.15 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 635332 | 1@1   | DFT_16QAM  | 25.92 | -2.25 | 23.67 | 232.81 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 635332 | 1@104 | DFT_16QAM  | 25.46 | -2.25 | 23.21 | 209.41 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 635332 | 100@0 | DFT_64QAM  | 24.94 | -2.25 | 22.69 | 185.78 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 635332 | 50@25 | DFT_64QAM  | 25.01 | -2.25 | 22.76 | 188.8  | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 635332 | 1@1   | DFT_64QAM  | 24.64 | -2.25 | 22.39 | 173.38 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 635332 | 1@104 | DFT_64QAM  | 24.19 | -2.25 | 21.94 | 156.31 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 635332 | 100@0 | DFT_256QAM | 22.89 | -2.25 | 20.64 | 115.88 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 635332 | 50@25 | DFT_256QAM | 23.05 | -2.25 | 20.8  | 120.23 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 635332 | 1@1   | DFT_256QAM | 22.82 | -2.25 | 20.57 | 114.02 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 635332 | 1@104 | DFT_256QAM | 22.38 | -2.25 | 20.13 | 103.04 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 635332 | 106@0 | CP_QPSK    | 24.38 | -2.25 | 22.13 | 163.31 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 635332 | 53@26 | CP_QPSK    | 25.98 | -2.25 | 23.73 | 236.05 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 635332 | 1@1   | CP_QPSK    | 25.76 | -2.25 | 23.51 | 224.39 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 635332 | 1@104 | CP_QPSK    | 25.27 | -2.25 | 23.02 | 200.45 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 635332 | 106@0 | CP_16QAM   | 24.36 | -2.25 | 22.11 | 162.55 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 635332 | 53@26 | CP_16QAM   | 25.5  | -2.25 | 23.25 | 211.35 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 635332 | 1@1   | CP_16QAM   | 25.22 | -2.25 | 22.97 | 198.15 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 635332 | 1@104 | CP_16QAM   | 24.79 | -2.25 | 22.54 | 179.47 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 635332 | 106@0 | CP_64QAM   | 23.87 | -2.25 | 21.62 | 145.21 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 635332 | 53@26 | CP_64QAM   | 23.97 | -2.25 | 21.72 | 148.59 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 635332 | 1@1   | CP_64QAM   | 23.93 | -2.25 | 21.68 | 147.23 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 635332 | 1@104 | CP_64QAM   | 23.48 | -2.25 | 21.23 | 132.74 | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 635332 | 106@0 | CP_256QAM  | 20.99 | -2.25 | 18.74 | 74.82  | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 635332 | 53@26 | CP_256QAM  | 21.09 | -2.25 | 18.84 | 76.56  | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 635332 | 1@1   | CP_256QAM  | 20.95 | -2.25 | 18.7  | 74.13  | 1000 | PASS |
| n78(3450-3550) | 30 | 40 | 635332 | 1@104 | CP_256QAM  | 20.53 | -2.25 | 18.28 | 67.3   | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 631668 | 128@0 | DFT_BPSK   | 27.39 | -2.25 | 25.14 | 326.59 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 631668 | 64@32 | DFT_BPSK   | 27.97 | -2.25 | 25.72 | 373.25 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 631668 | 1@1   | DFT_BPSK   | 27.72 | -2.25 | 25.47 | 352.37 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 631668 | 1@131 | DFT_BPSK   | 27.47 | -2.25 | 25.22 | 332.66 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 631668 | 128@0 | DFT_QPSK   | 26.91 | -2.25 | 24.66 | 292.42 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 631668 | 64@32 | DFT_QPSK   | 28    | -2.25 | 25.75 | 375.84 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 631668 | 1@1   | DFT_QPSK   | 27.77 | -2.25 | 25.52 | 356.45 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 631668 | 1@131 | DFT_QPSK   | 27.47 | -2.25 | 25.22 | 332.66 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 631668 | 128@0 | DFT_16QAM  | 25.89 | -2.25 | 23.64 | 231.21 | 1000 | PASS |

|                |    |    |        |       |            |       |       |       |        |      |      |
|----------------|----|----|--------|-------|------------|-------|-------|-------|--------|------|------|
| n78(3450-3550) | 30 | 50 | 631668 | 64@32 | DFT_16QAM  | 27.02 | -2.25 | 24.77 | 299.92 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 631668 | 1@1   | DFT_16QAM  | 26.45 | -2.25 | 24.2  | 263.03 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 631668 | 1@131 | DFT_16QAM  | 26.2  | -2.25 | 23.95 | 248.31 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 631668 | 128@0 | DFT_64QAM  | 25.41 | -2.25 | 23.16 | 207.01 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 631668 | 64@32 | DFT_64QAM  | 25.51 | -2.25 | 23.26 | 211.84 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 631668 | 1@1   | DFT_64QAM  | 25.15 | -2.25 | 22.9  | 194.98 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 631668 | 1@131 | DFT_64QAM  | 24.89 | -2.25 | 22.64 | 183.65 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 631668 | 128@0 | DFT_256QAM | 23.38 | -2.25 | 21.13 | 129.72 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 631668 | 64@32 | DFT_256QAM | 23.48 | -2.25 | 21.23 | 132.74 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 631668 | 1@1   | DFT_256QAM | 23.28 | -2.25 | 21.03 | 126.77 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 631668 | 1@131 | DFT_256QAM | 23.02 | -2.25 | 20.77 | 119.4  | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 631668 | 133@0 | CP_QPSK    | 24.88 | -2.25 | 22.63 | 183.23 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 631668 | 67@33 | CP_QPSK    | 26.45 | -2.25 | 24.2  | 263.03 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 631668 | 1@1   | CP_QPSK    | 26.32 | -2.25 | 24.07 | 255.27 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 631668 | 1@131 | CP_QPSK    | 26.05 | -2.25 | 23.8  | 239.88 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 631668 | 133@0 | CP_16QAM   | 24.87 | -2.25 | 22.62 | 182.81 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 631668 | 67@33 | CP_16QAM   | 26    | -2.25 | 23.75 | 237.14 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 631668 | 1@1   | CP_16QAM   | 25.85 | -2.25 | 23.6  | 229.09 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 631668 | 1@131 | CP_16QAM   | 25.48 | -2.25 | 23.23 | 210.38 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 631668 | 133@0 | CP_64QAM   | 24.44 | -2.25 | 22.19 | 165.58 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 631668 | 67@33 | CP_64QAM   | 24.48 | -2.25 | 22.23 | 167.11 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 631668 | 1@1   | CP_64QAM   | 24.46 | -2.25 | 22.21 | 166.34 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 631668 | 1@131 | CP_64QAM   | 24.15 | -2.25 | 21.9  | 154.88 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 631668 | 133@0 | CP_256QAM  | 21.35 | -2.25 | 19.1  | 81.28  | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 631668 | 67@33 | CP_256QAM  | 21.43 | -2.25 | 19.18 | 82.79  | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 631668 | 1@1   | CP_256QAM  | 21.39 | -2.25 | 19.14 | 82.04  | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 631668 | 1@131 | CP_256QAM  | 21.23 | -2.25 | 18.98 | 79.07  | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 633334 | 128@0 | DFT_BPSK   | 27.23 | -2.25 | 24.98 | 314.77 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 633334 | 64@32 | DFT_BPSK   | 27.85 | -2.25 | 25.6  | 363.08 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 633334 | 1@1   | DFT_BPSK   | 27.79 | -2.25 | 25.54 | 358.1  | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 633334 | 1@131 | DFT_BPSK   | 27.27 | -2.25 | 25.02 | 317.69 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 633334 | 128@0 | DFT_QPSK   | 26.79 | -2.25 | 24.54 | 284.45 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 633334 | 64@32 | DFT_QPSK   | 27.87 | -2.25 | 25.62 | 364.75 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 633334 | 1@1   | DFT_QPSK   | 27.79 | -2.25 | 25.54 | 358.1  | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 633334 | 1@131 | DFT_QPSK   | 27.28 | -2.25 | 25.03 | 318.42 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 633334 | 128@0 | DFT_16QAM  | 25.77 | -2.25 | 23.52 | 224.91 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 633334 | 64@32 | DFT_16QAM  | 26.88 | -2.25 | 24.63 | 290.4  | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 633334 | 1@1   | DFT_16QAM  | 26.55 | -2.25 | 24.3  | 269.15 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 633334 | 1@131 | DFT_16QAM  | 26.03 | -2.25 | 23.78 | 238.78 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 633334 | 128@0 | DFT_64QAM  | 25.27 | -2.25 | 23.02 | 200.45 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 633334 | 64@32 | DFT_64QAM  | 25.36 | -2.25 | 23.11 | 204.64 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 633334 | 1@1   | DFT_64QAM  | 25.2  | -2.25 | 22.95 | 197.24 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 633334 | 1@131 | DFT_64QAM  | 24.71 | -2.25 | 22.46 | 176.2  | 1000 | PASS |

|                |    |    |        |       |            |       |       |       |        |      |      |
|----------------|----|----|--------|-------|------------|-------|-------|-------|--------|------|------|
| n78(3450-3550) | 30 | 50 | 633334 | 128@0 | DFT_256QAM | 23.25 | -2.25 | 21    | 125.89 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 633334 | 64@32 | DFT_256QAM | 23.34 | -2.25 | 21.09 | 128.53 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 633334 | 1@1   | DFT_256QAM | 23.34 | -2.25 | 21.09 | 128.53 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 633334 | 1@131 | DFT_256QAM | 22.81 | -2.25 | 20.56 | 113.76 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 633334 | 133@0 | CP_QPSK    | 24.74 | -2.25 | 22.49 | 177.42 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 633334 | 67@33 | CP_QPSK    | 26.31 | -2.25 | 24.06 | 254.68 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 633334 | 1@1   | CP_QPSK    | 26.42 | -2.25 | 24.17 | 261.22 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 633334 | 1@131 | CP_QPSK    | 25.89 | -2.25 | 23.64 | 231.21 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 633334 | 133@0 | CP_16QAM   | 24.74 | -2.25 | 22.49 | 177.42 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 633334 | 67@33 | CP_16QAM   | 25.79 | -2.25 | 23.54 | 225.94 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 633334 | 1@1   | CP_16QAM   | 25.87 | -2.25 | 23.62 | 230.14 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 633334 | 1@131 | CP_16QAM   | 25.34 | -2.25 | 23.09 | 203.7  | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 633334 | 133@0 | CP_64QAM   | 24.27 | -2.25 | 22.02 | 159.22 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 633334 | 67@33 | CP_64QAM   | 24.3  | -2.25 | 22.05 | 160.32 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 633334 | 1@1   | CP_64QAM   | 24.54 | -2.25 | 22.29 | 169.43 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 633334 | 1@131 | CP_64QAM   | 24.04 | -2.25 | 21.79 | 151.01 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 633334 | 133@0 | CP_256QAM  | 21.36 | -2.25 | 19.11 | 81.47  | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 633334 | 67@33 | CP_256QAM  | 21.38 | -2.25 | 19.13 | 81.85  | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 633334 | 1@1   | CP_256QAM  | 21.47 | -2.25 | 19.22 | 83.56  | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 633334 | 1@131 | CP_256QAM  | 21.1  | -2.25 | 18.85 | 76.74  | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 635000 | 128@0 | DFT_BPSK   | 27    | -2.25 | 24.75 | 298.54 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 635000 | 64@32 | DFT_BPSK   | 27.57 | -2.25 | 25.32 | 340.41 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 635000 | 1@1   | DFT_BPSK   | 27.48 | -2.25 | 25.23 | 333.43 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 635000 | 1@131 | DFT_BPSK   | 26.94 | -2.25 | 24.69 | 294.44 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 635000 | 128@0 | DFT_QPSK   | 26.54 | -2.25 | 24.29 | 268.53 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 635000 | 64@32 | DFT_QPSK   | 27.61 | -2.25 | 25.36 | 343.56 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 635000 | 1@1   | DFT_QPSK   | 27.47 | -2.25 | 25.22 | 332.66 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 635000 | 1@131 | DFT_QPSK   | 26.95 | -2.25 | 24.7  | 295.12 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 635000 | 128@0 | DFT_16QAM  | 25.52 | -2.25 | 23.27 | 212.32 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 635000 | 64@32 | DFT_16QAM  | 26.62 | -2.25 | 24.37 | 273.53 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 635000 | 1@1   | DFT_16QAM  | 26.23 | -2.25 | 23.98 | 250.03 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 635000 | 1@131 | DFT_16QAM  | 25.71 | -2.25 | 23.46 | 221.82 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 635000 | 128@0 | DFT_64QAM  | 25.02 | -2.25 | 22.77 | 189.23 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 635000 | 64@32 | DFT_64QAM  | 25.08 | -2.25 | 22.83 | 191.87 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 635000 | 1@1   | DFT_64QAM  | 24.93 | -2.25 | 22.68 | 185.35 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 635000 | 1@131 | DFT_64QAM  | 24.38 | -2.25 | 22.13 | 163.31 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 635000 | 128@0 | DFT_256QAM | 23.03 | -2.25 | 20.78 | 119.67 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 635000 | 64@32 | DFT_256QAM | 23.09 | -2.25 | 20.84 | 121.34 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 635000 | 1@1   | DFT_256QAM | 23.03 | -2.25 | 20.78 | 119.67 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 635000 | 1@131 | DFT_256QAM | 22.54 | -2.25 | 20.29 | 106.91 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 635000 | 133@0 | CP_QPSK    | 24.5  | -2.25 | 22.25 | 167.88 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 635000 | 67@33 | CP_QPSK    | 26.06 | -2.25 | 23.81 | 240.44 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 635000 | 1@1   | CP_QPSK    | 26.05 | -2.25 | 23.8  | 239.88 | 1000 | PASS |

|                |    |    |        |       |            |       |       |       |        |      |      |
|----------------|----|----|--------|-------|------------|-------|-------|-------|--------|------|------|
| n78(3450-3550) | 30 | 50 | 635000 | 1@131 | CP_QPSK    | 25.54 | -2.25 | 23.29 | 213.3  | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 635000 | 133@0 | CP_16QAM   | 24.47 | -2.25 | 22.22 | 166.72 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 635000 | 67@33 | CP_16QAM   | 25.54 | -2.25 | 23.29 | 213.3  | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 635000 | 1@1   | CP_16QAM   | 25.54 | -2.25 | 23.29 | 213.3  | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 635000 | 1@131 | CP_16QAM   | 24.99 | -2.25 | 22.74 | 187.93 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 635000 | 133@0 | CP_64QAM   | 23.99 | -2.25 | 21.74 | 149.28 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 635000 | 67@33 | CP_64QAM   | 24.06 | -2.25 | 21.81 | 151.71 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 635000 | 1@1   | CP_64QAM   | 24.21 | -2.25 | 21.96 | 157.04 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 635000 | 1@131 | CP_64QAM   | 23.69 | -2.25 | 21.44 | 139.32 | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 635000 | 133@0 | CP_256QAM  | 21.09 | -2.25 | 18.84 | 76.56  | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 635000 | 67@33 | CP_256QAM  | 21.12 | -2.25 | 18.87 | 77.09  | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 635000 | 1@1   | CP_256QAM  | 21.3  | -2.25 | 19.05 | 80.35  | 1000 | PASS |
| n78(3450-3550) | 30 | 50 | 635000 | 1@131 | CP_256QAM  | 20.81 | -2.25 | 18.56 | 71.78  | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 632000 | 162@0 | DFT_BPSK   | 27.33 | -2.25 | 25.08 | 322.11 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 632000 | 81@40 | DFT_BPSK   | 27.95 | -2.25 | 25.7  | 371.54 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 632000 | 1@1   | DFT_BPSK   | 27.67 | -2.25 | 25.42 | 348.34 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 632000 | 1@160 | DFT_BPSK   | 27.18 | -2.25 | 24.93 | 311.17 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 632000 | 162@0 | DFT_QPSK   | 26.82 | -2.25 | 24.57 | 286.42 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 632000 | 81@40 | DFT_QPSK   | 27.97 | -2.25 | 25.72 | 373.25 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 632000 | 1@1   | DFT_QPSK   | 27.62 | -2.25 | 25.37 | 344.35 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 632000 | 1@160 | DFT_QPSK   | 27.16 | -2.25 | 24.91 | 309.74 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 632000 | 162@0 | DFT_16QAM  | 25.84 | -2.25 | 23.59 | 228.56 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 632000 | 81@40 | DFT_16QAM  | 26.97 | -2.25 | 24.72 | 296.48 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 632000 | 1@1   | DFT_16QAM  | 26.39 | -2.25 | 24.14 | 259.42 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 632000 | 1@160 | DFT_16QAM  | 25.93 | -2.25 | 23.68 | 233.35 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 632000 | 162@0 | DFT_64QAM  | 25.33 | -2.25 | 23.08 | 203.24 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 632000 | 81@40 | DFT_64QAM  | 25.49 | -2.25 | 23.24 | 210.86 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 632000 | 1@1   | DFT_64QAM  | 24.97 | -2.25 | 22.72 | 187.07 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 632000 | 1@160 | DFT_64QAM  | 24.53 | -2.25 | 22.28 | 169.04 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 632000 | 162@0 | DFT_256QAM | 23.32 | -2.25 | 21.07 | 127.94 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 632000 | 81@40 | DFT_256QAM | 23.42 | -2.25 | 21.17 | 130.92 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 632000 | 1@1   | DFT_256QAM | 23.29 | -2.25 | 21.04 | 127.06 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 632000 | 1@160 | DFT_256QAM | 22.81 | -2.25 | 20.56 | 113.76 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 632000 | 162@0 | CP_QPSK    | 24.83 | -2.25 | 22.58 | 181.13 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 632000 | 81@40 | CP_QPSK    | 26.46 | -2.25 | 24.21 | 263.63 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 632000 | 1@1   | CP_QPSK    | 26.18 | -2.25 | 23.93 | 247.17 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 632000 | 1@160 | CP_QPSK    | 25.68 | -2.25 | 23.43 | 220.29 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 632000 | 162@0 | CP_16QAM   | 24.83 | -2.25 | 22.58 | 181.13 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 632000 | 81@40 | CP_16QAM   | 25.94 | -2.25 | 23.69 | 233.88 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 632000 | 1@1   | CP_16QAM   | 25.64 | -2.25 | 23.39 | 218.27 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 632000 | 1@160 | CP_16QAM   | 25.17 | -2.25 | 22.92 | 195.88 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 632000 | 162@0 | CP_64QAM   | 24.33 | -2.25 | 22.08 | 161.44 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 632000 | 81@40 | CP_64QAM   | 24.45 | -2.25 | 22.2  | 165.96 | 1000 | PASS |

|                |    |    |        |       |            |       |       |       |        |      |      |
|----------------|----|----|--------|-------|------------|-------|-------|-------|--------|------|------|
| n78(3450-3550) | 30 | 60 | 632000 | 1@1   | CP_64QAM   | 24.29 | -2.25 | 22.04 | 159.96 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 632000 | 1@160 | CP_64QAM   | 23.84 | -2.25 | 21.59 | 144.21 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 632000 | 162@0 | CP_256QAM  | 21.24 | -2.25 | 18.99 | 79.25  | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 632000 | 81@40 | CP_256QAM  | 21.39 | -2.25 | 19.14 | 82.04  | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 632000 | 1@1   | CP_256QAM  | 21.31 | -2.25 | 19.06 | 80.54  | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 632000 | 1@160 | CP_256QAM  | 20.98 | -2.25 | 18.73 | 74.64  | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 633334 | 162@0 | DFT_BPSK   | 27.23 | -2.25 | 24.98 | 314.77 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 633334 | 81@40 | DFT_BPSK   | 27.83 | -2.25 | 25.58 | 361.41 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 633334 | 1@1   | DFT_BPSK   | 27.65 | -2.25 | 25.4  | 346.74 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 633334 | 1@160 | DFT_BPSK   | 27.08 | -2.25 | 24.83 | 304.09 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 633334 | 162@0 | DFT_QPSK   | 26.74 | -2.25 | 24.49 | 281.19 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 633334 | 81@40 | DFT_QPSK   | 27.8  | -2.25 | 25.55 | 358.92 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 633334 | 1@1   | DFT_QPSK   | 27.62 | -2.25 | 25.37 | 344.35 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 633334 | 1@160 | DFT_QPSK   | 27.06 | -2.25 | 24.81 | 302.69 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 633334 | 162@0 | DFT_16QAM  | 25.73 | -2.25 | 23.48 | 222.84 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 633334 | 81@40 | DFT_16QAM  | 26.81 | -2.25 | 24.56 | 285.76 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 633334 | 1@1   | DFT_16QAM  | 26.41 | -2.25 | 24.16 | 260.62 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 633334 | 1@160 | DFT_16QAM  | 25.86 | -2.25 | 23.61 | 229.61 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 633334 | 162@0 | DFT_64QAM  | 25.23 | -2.25 | 22.98 | 198.61 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 633334 | 81@40 | DFT_64QAM  | 25.33 | -2.25 | 23.08 | 203.24 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 633334 | 1@1   | DFT_64QAM  | 25.05 | -2.25 | 22.8  | 190.55 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 633334 | 1@160 | DFT_64QAM  | 24.52 | -2.25 | 22.27 | 168.66 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 633334 | 162@0 | DFT_256QAM | 23.22 | -2.25 | 20.97 | 125.03 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 633334 | 81@40 | DFT_256QAM | 23.27 | -2.25 | 21.02 | 126.47 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 633334 | 1@1   | DFT_256QAM | 23.16 | -2.25 | 20.91 | 123.31 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 633334 | 1@160 | DFT_256QAM | 22.55 | -2.25 | 20.3  | 107.15 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 633334 | 162@0 | CP_QPSK    | 24.68 | -2.25 | 22.43 | 174.98 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 633334 | 81@40 | CP_QPSK    | 26.31 | -2.25 | 24.06 | 254.68 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 633334 | 1@1   | CP_QPSK    | 26.2  | -2.25 | 23.95 | 248.31 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 633334 | 1@160 | CP_QPSK    | 25.61 | -2.25 | 23.36 | 216.77 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 633334 | 162@0 | CP_16QAM   | 24.72 | -2.25 | 22.47 | 176.6  | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 633334 | 81@40 | CP_16QAM   | 25.81 | -2.25 | 23.56 | 226.99 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 633334 | 1@1   | CP_16QAM   | 25.72 | -2.25 | 23.47 | 222.33 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 633334 | 1@160 | CP_16QAM   | 25.19 | -2.25 | 22.94 | 196.79 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 633334 | 162@0 | CP_64QAM   | 24.22 | -2.25 | 21.97 | 157.4  | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 633334 | 81@40 | CP_64QAM   | 24.27 | -2.25 | 22.02 | 159.22 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 633334 | 1@1   | CP_64QAM   | 24.53 | -2.25 | 22.28 | 169.04 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 633334 | 1@160 | CP_64QAM   | 23.96 | -2.25 | 21.71 | 148.25 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 633334 | 162@0 | CP_256QAM  | 21.27 | -2.25 | 19.02 | 79.8   | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 633334 | 81@40 | CP_256QAM  | 21.35 | -2.25 | 19.1  | 81.28  | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 633334 | 1@1   | CP_256QAM  | 21.18 | -2.25 | 18.93 | 78.16  | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 633334 | 1@160 | CP_256QAM  | 20.83 | -2.25 | 18.58 | 72.11  | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 634666 | 162@0 | DFT_BPSK   | 27.05 | -2.25 | 24.8  | 302    | 1000 | PASS |



|                |    |    |        |       |            |       |       |       |        |      |      |
|----------------|----|----|--------|-------|------------|-------|-------|-------|--------|------|------|
| n78(3450-3550) | 30 | 60 | 634666 | 81@40 | DFT_BPSK   | 27.64 | -2.25 | 25.39 | 345.94 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 634666 | 1@1   | DFT_BPSK   | 27.58 | -2.25 | 25.33 | 341.19 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 634666 | 1@160 | DFT_BPSK   | 26.83 | -2.25 | 24.58 | 287.08 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 634666 | 162@0 | DFT_QPSK   | 26.59 | -2.25 | 24.34 | 271.64 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 634666 | 81@40 | DFT_QPSK   | 27.68 | -2.25 | 25.43 | 349.14 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 634666 | 1@1   | DFT_QPSK   | 27.61 | -2.25 | 25.36 | 343.56 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 634666 | 1@160 | DFT_QPSK   | 26.89 | -2.25 | 24.64 | 291.07 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 634666 | 162@0 | DFT_16QAM  | 25.58 | -2.25 | 23.33 | 215.28 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 634666 | 81@40 | DFT_16QAM  | 26.66 | -2.25 | 24.41 | 276.06 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 634666 | 1@1   | DFT_16QAM  | 26.48 | -2.25 | 24.23 | 264.85 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 634666 | 1@160 | DFT_16QAM  | 25.74 | -2.25 | 23.49 | 223.36 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 634666 | 162@0 | DFT_64QAM  | 25.08 | -2.25 | 22.83 | 191.87 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 634666 | 81@40 | DFT_64QAM  | 25.18 | -2.25 | 22.93 | 196.34 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 634666 | 1@1   | DFT_64QAM  | 25.04 | -2.25 | 22.79 | 190.11 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 634666 | 1@160 | DFT_64QAM  | 24.36 | -2.25 | 22.11 | 162.55 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 634666 | 162@0 | DFT_256QAM | 23.07 | -2.25 | 20.82 | 120.78 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 634666 | 81@40 | DFT_256QAM | 23.1  | -2.25 | 20.85 | 121.62 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 634666 | 1@1   | DFT_256QAM | 23.14 | -2.25 | 20.89 | 122.74 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 634666 | 1@160 | DFT_256QAM | 22.44 | -2.25 | 20.19 | 104.47 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 634666 | 162@0 | CP_QPSK    | 24.51 | -2.25 | 22.26 | 168.27 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 634666 | 81@40 | CP_QPSK    | 26.14 | -2.25 | 23.89 | 244.91 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 634666 | 1@1   | CP_QPSK    | 26.15 | -2.25 | 23.9  | 245.47 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 634666 | 1@160 | CP_QPSK    | 25.38 | -2.25 | 23.13 | 205.59 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 634666 | 162@0 | CP_16QAM   | 24.54 | -2.25 | 22.29 | 169.43 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 634666 | 81@40 | CP_16QAM   | 25.59 | -2.25 | 23.34 | 215.77 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 634666 | 1@1   | CP_16QAM   | 25.62 | -2.25 | 23.37 | 217.27 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 634666 | 1@160 | CP_16QAM   | 24.87 | -2.25 | 22.62 | 182.81 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 634666 | 162@0 | CP_64QAM   | 24.02 | -2.25 | 21.77 | 150.31 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 634666 | 81@40 | CP_64QAM   | 24.15 | -2.25 | 21.9  | 154.88 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 634666 | 1@1   | CP_64QAM   | 24.31 | -2.25 | 22.06 | 160.69 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 634666 | 1@160 | CP_64QAM   | 23.59 | -2.25 | 21.34 | 136.14 | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 634666 | 162@0 | CP_256QAM  | 21.13 | -2.25 | 18.88 | 77.27  | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 634666 | 81@40 | CP_256QAM  | 21.21 | -2.25 | 18.96 | 78.7   | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 634666 | 1@1   | CP_256QAM  | 21.23 | -2.25 | 18.98 | 79.07  | 1000 | PASS |
| n78(3450-3550) | 30 | 60 | 634666 | 1@160 | CP_256QAM  | 20.65 | -2.25 | 18.4  | 69.18  | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 632334 | 180@0 | DFT_BPSK   | 27.28 | -2.25 | 25.03 | 318.42 | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 632334 | 90@45 | DFT_BPSK   | 27.91 | -2.25 | 25.66 | 368.13 | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 632334 | 1@1   | DFT_BPSK   | 27.47 | -2.25 | 25.22 | 332.66 | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 632334 | 1@187 | DFT_BPSK   | 27.01 | -2.25 | 24.76 | 299.23 | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 632334 | 180@0 | DFT_QPSK   | 26.76 | -2.25 | 24.51 | 282.49 | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 632334 | 90@45 | DFT_QPSK   | 27.93 | -2.25 | 25.68 | 369.83 | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 632334 | 1@1   | DFT_QPSK   | 27.49 | -2.25 | 25.24 | 334.2  | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 632334 | 1@187 | DFT_QPSK   | 27.06 | -2.25 | 24.81 | 302.69 | 1000 | PASS |

|                |    |    |        |       |            |       |       |       |        |      |      |
|----------------|----|----|--------|-------|------------|-------|-------|-------|--------|------|------|
| n78(3450-3550) | 30 | 70 | 632334 | 180@0 | DFT_16QAM  | 25.77 | -2.25 | 23.52 | 224.91 | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 632334 | 90@45 | DFT_16QAM  | 26.94 | -2.25 | 24.69 | 294.44 | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 632334 | 1@1   | DFT_16QAM  | 26.18 | -2.25 | 23.93 | 247.17 | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 632334 | 1@187 | DFT_16QAM  | 25.75 | -2.25 | 23.5  | 223.87 | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 632334 | 180@0 | DFT_64QAM  | 25.28 | -2.25 | 23.03 | 200.91 | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 632334 | 90@45 | DFT_64QAM  | 25.42 | -2.25 | 23.17 | 207.49 | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 632334 | 1@1   | DFT_64QAM  | 24.88 | -2.25 | 22.63 | 183.23 | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 632334 | 1@187 | DFT_64QAM  | 24.45 | -2.25 | 22.2  | 165.96 | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 632334 | 180@0 | DFT_256QAM | 23.25 | -2.25 | 21    | 125.89 | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 632334 | 90@45 | DFT_256QAM | 23.34 | -2.25 | 21.09 | 128.53 | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 632334 | 1@1   | DFT_256QAM | 23.02 | -2.25 | 20.77 | 119.4  | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 632334 | 1@187 | DFT_256QAM | 22.56 | -2.25 | 20.31 | 107.4  | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 632334 | 189@0 | CP_QPSK    | 24.73 | -2.25 | 22.48 | 177.01 | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 632334 | 95@47 | CP_QPSK    | 26.46 | -2.25 | 24.21 | 263.63 | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 632334 | 1@1   | CP_QPSK    | 26.09 | -2.25 | 23.84 | 242.1  | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 632334 | 1@187 | CP_QPSK    | 25.65 | -2.25 | 23.4  | 218.78 | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 632334 | 189@0 | CP_16QAM   | 24.67 | -2.25 | 22.42 | 174.58 | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 632334 | 95@47 | CP_16QAM   | 25.9  | -2.25 | 23.65 | 231.74 | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 632334 | 1@1   | CP_16QAM   | 25.58 | -2.25 | 23.33 | 215.28 | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 632334 | 1@187 | CP_16QAM   | 25.09 | -2.25 | 22.84 | 192.31 | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 632334 | 189@0 | CP_64QAM   | 24.19 | -2.25 | 21.94 | 156.31 | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 632334 | 95@47 | CP_64QAM   | 24.42 | -2.25 | 22.17 | 164.82 | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 632334 | 1@1   | CP_64QAM   | 24.21 | -2.25 | 21.96 | 157.04 | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 632334 | 1@187 | CP_64QAM   | 23.72 | -2.25 | 21.47 | 140.28 | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 632334 | 189@0 | CP_256QAM  | 21.14 | -2.25 | 18.89 | 77.45  | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 632334 | 95@47 | CP_256QAM  | 21.33 | -2.25 | 19.08 | 80.91  | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 632334 | 1@1   | CP_256QAM  | 21.04 | -2.25 | 18.79 | 75.68  | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 632334 | 1@187 | CP_256QAM  | 20.86 | -2.25 | 18.61 | 72.61  | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 633334 | 180@0 | DFT_BPSK   | 27.27 | -2.25 | 25.02 | 317.69 | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 633334 | 90@45 | DFT_BPSK   | 27.81 | -2.25 | 25.56 | 359.75 | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 633334 | 1@1   | DFT_BPSK   | 27.47 | -2.25 | 25.22 | 332.66 | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 633334 | 1@187 | DFT_BPSK   | 26.87 | -2.25 | 24.62 | 289.73 | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 633334 | 180@0 | DFT_QPSK   | 26.72 | -2.25 | 24.47 | 279.9  | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 633334 | 90@45 | DFT_QPSK   | 27.82 | -2.25 | 25.57 | 360.58 | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 633334 | 1@1   | DFT_QPSK   | 27.49 | -2.25 | 25.24 | 334.2  | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 633334 | 1@187 | DFT_QPSK   | 26.89 | -2.25 | 24.64 | 291.07 | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 633334 | 180@0 | DFT_16QAM  | 25.71 | -2.25 | 23.46 | 221.82 | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 633334 | 90@45 | DFT_16QAM  | 26.86 | -2.25 | 24.61 | 289.07 | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 633334 | 1@1   | DFT_16QAM  | 26.2  | -2.25 | 23.95 | 248.31 | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 633334 | 1@187 | DFT_16QAM  | 25.59 | -2.25 | 23.34 | 215.77 | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 633334 | 180@0 | DFT_64QAM  | 25.21 | -2.25 | 22.96 | 197.7  | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 633334 | 90@45 | DFT_64QAM  | 25.31 | -2.25 | 23.06 | 202.3  | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 633334 | 1@1   | DFT_64QAM  | 24.9  | -2.25 | 22.65 | 184.08 | 1000 | PASS |

|                |    |    |        |       |            |       |       |       |        |      |      |
|----------------|----|----|--------|-------|------------|-------|-------|-------|--------|------|------|
| n78(3450-3550) | 30 | 70 | 633334 | 1@187 | DFT_64QAM  | 24.31 | -2.25 | 22.06 | 160.69 | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 633334 | 180@0 | DFT_256QAM | 23.19 | -2.25 | 20.94 | 124.17 | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 633334 | 90@45 | DFT_256QAM | 23.29 | -2.25 | 21.04 | 127.06 | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 633334 | 1@1   | DFT_256QAM | 23.02 | -2.25 | 20.77 | 119.4  | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 633334 | 1@187 | DFT_256QAM | 22.4  | -2.25 | 20.15 | 103.51 | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 633334 | 189@0 | CP_QPSK    | 24.66 | -2.25 | 22.41 | 174.18 | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 633334 | 95@47 | CP_QPSK    | 26.3  | -2.25 | 24.05 | 254.1  | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 633334 | 1@1   | CP_QPSK    | 26.06 | -2.25 | 23.81 | 240.44 | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 633334 | 1@187 | CP_QPSK    | 25.44 | -2.25 | 23.19 | 208.45 | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 633334 | 189@0 | CP_16QAM   | 24.63 | -2.25 | 22.38 | 172.98 | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 633334 | 95@47 | CP_16QAM   | 25.81 | -2.25 | 23.56 | 226.99 | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 633334 | 1@1   | CP_16QAM   | 25.57 | -2.25 | 23.32 | 214.78 | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 633334 | 1@187 | CP_16QAM   | 24.96 | -2.25 | 22.71 | 186.64 | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 633334 | 189@0 | CP_64QAM   | 24.15 | -2.25 | 21.9  | 154.88 | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 633334 | 95@47 | CP_64QAM   | 24.31 | -2.25 | 22.06 | 160.69 | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 633334 | 1@1   | CP_64QAM   | 24.19 | -2.25 | 21.94 | 156.31 | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 633334 | 1@187 | CP_64QAM   | 23.55 | -2.25 | 21.3  | 134.9  | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 633334 | 189@0 | CP_256QAM  | 21.25 | -2.25 | 19    | 79.43  | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 633334 | 95@47 | CP_256QAM  | 21.41 | -2.25 | 19.16 | 82.41  | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 633334 | 1@1   | CP_256QAM  | 21.08 | -2.25 | 18.83 | 76.38  | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 633334 | 1@187 | CP_256QAM  | 20.78 | -2.25 | 18.53 | 71.29  | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 634332 | 180@0 | DFT_BPSK   | 27.12 | -2.25 | 24.87 | 306.9  | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 634332 | 90@45 | DFT_BPSK   | 27.71 | -2.25 | 25.46 | 351.56 | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 634332 | 1@1   | DFT_BPSK   | 27.54 | -2.25 | 25.29 | 338.06 | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 634332 | 1@187 | DFT_BPSK   | 26.71 | -2.25 | 24.46 | 279.25 | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 634332 | 180@0 | DFT_QPSK   | 26.61 | -2.25 | 24.36 | 272.9  | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 634332 | 90@45 | DFT_QPSK   | 27.71 | -2.25 | 25.46 | 351.56 | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 634332 | 1@1   | DFT_QPSK   | 27.54 | -2.25 | 25.29 | 338.06 | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 634332 | 1@187 | DFT_QPSK   | 26.73 | -2.25 | 24.48 | 280.54 | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 634332 | 180@0 | DFT_16QAM  | 25.67 | -2.25 | 23.42 | 219.79 | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 634332 | 90@45 | DFT_16QAM  | 26.74 | -2.25 | 24.49 | 281.19 | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 634332 | 1@1   | DFT_16QAM  | 26.26 | -2.25 | 24.01 | 251.77 | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 634332 | 1@187 | DFT_16QAM  | 25.46 | -2.25 | 23.21 | 209.41 | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 634332 | 180@0 | DFT_64QAM  | 25.14 | -2.25 | 22.89 | 194.54 | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 634332 | 90@45 | DFT_64QAM  | 25.23 | -2.25 | 22.98 | 198.61 | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 634332 | 1@1   | DFT_64QAM  | 24.96 | -2.25 | 22.71 | 186.64 | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 634332 | 1@187 | DFT_64QAM  | 24.16 | -2.25 | 21.91 | 155.24 | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 634332 | 180@0 | DFT_256QAM | 23.14 | -2.25 | 20.89 | 122.74 | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 634332 | 90@45 | DFT_256QAM | 23.17 | -2.25 | 20.92 | 123.59 | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 634332 | 1@1   | DFT_256QAM | 23.05 | -2.25 | 20.8  | 120.23 | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 634332 | 1@187 | DFT_256QAM | 22.24 | -2.25 | 19.99 | 99.77  | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 634332 | 189@0 | CP_QPSK    | 24.59 | -2.25 | 22.34 | 171.4  | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 634332 | 95@47 | CP_QPSK    | 26.19 | -2.25 | 23.94 | 247.74 | 1000 | PASS |

|                |    |    |        |        |            |       |       |       |        |      |      |
|----------------|----|----|--------|--------|------------|-------|-------|-------|--------|------|------|
| n78(3450-3550) | 30 | 70 | 634332 | 1@1    | CP_QPSK    | 26.1  | -2.25 | 23.85 | 242.66 | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 634332 | 1@187  | CP_QPSK    | 25.32 | -2.25 | 23.07 | 202.77 | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 634332 | 189@0  | CP_16QAM   | 24.52 | -2.25 | 22.27 | 168.66 | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 634332 | 95@47  | CP_16QAM   | 25.68 | -2.25 | 23.43 | 220.29 | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 634332 | 1@1    | CP_16QAM   | 25.61 | -2.25 | 23.36 | 216.77 | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 634332 | 1@187  | CP_16QAM   | 24.8  | -2.25 | 22.55 | 179.89 | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 634332 | 189@0  | CP_64QAM   | 24.05 | -2.25 | 21.8  | 151.36 | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 634332 | 95@47  | CP_64QAM   | 24.22 | -2.25 | 21.97 | 157.4  | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 634332 | 1@1    | CP_64QAM   | 24.23 | -2.25 | 21.98 | 157.76 | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 634332 | 1@187  | CP_64QAM   | 23.47 | -2.25 | 21.22 | 132.43 | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 634332 | 189@0  | CP_256QAM  | 21.17 | -2.25 | 18.92 | 77.98  | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 634332 | 95@47  | CP_256QAM  | 21.3  | -2.25 | 19.05 | 80.35  | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 634332 | 1@1    | CP_256QAM  | 21.09 | -2.25 | 18.84 | 76.56  | 1000 | PASS |
| n78(3450-3550) | 30 | 70 | 634332 | 1@187  | CP_256QAM  | 20.6  | -2.25 | 18.35 | 68.39  | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 632668 | 216@0  | DFT_BPSK   | 27.18 | -2.25 | 24.93 | 311.17 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 632668 | 108@54 | DFT_BPSK   | 27.94 | -2.25 | 25.69 | 370.68 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 632668 | 1@1    | DFT_BPSK   | 27.41 | -2.25 | 25.16 | 328.1  | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 632668 | 1@215  | DFT_BPSK   | 26.79 | -2.25 | 24.54 | 284.45 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 632668 | 216@0  | DFT_QPSK   | 26.69 | -2.25 | 24.44 | 277.97 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 632668 | 108@54 | DFT_QPSK   | 27.93 | -2.25 | 25.68 | 369.83 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 632668 | 1@1    | DFT_QPSK   | 27.4  | -2.25 | 25.15 | 327.34 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 632668 | 1@215  | DFT_QPSK   | 26.79 | -2.25 | 24.54 | 284.45 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 632668 | 216@0  | DFT_16QAM  | 25.74 | -2.25 | 23.49 | 223.36 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 632668 | 108@54 | DFT_16QAM  | 26.9  | -2.25 | 24.65 | 291.74 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 632668 | 1@1    | DFT_16QAM  | 26.16 | -2.25 | 23.91 | 246.04 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 632668 | 1@215  | DFT_16QAM  | 25.53 | -2.25 | 23.28 | 212.81 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 632668 | 216@0  | DFT_64QAM  | 25.19 | -2.25 | 22.94 | 196.79 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 632668 | 108@54 | DFT_64QAM  | 25.42 | -2.25 | 23.17 | 207.49 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 632668 | 1@1    | DFT_64QAM  | 24.86 | -2.25 | 22.61 | 182.39 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 632668 | 1@215  | DFT_64QAM  | 24.24 | -2.25 | 21.99 | 158.12 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 632668 | 216@0  | DFT_256QAM | 23.2  | -2.25 | 20.95 | 124.45 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 632668 | 108@54 | DFT_256QAM | 23.38 | -2.25 | 21.13 | 129.72 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 632668 | 1@1    | DFT_256QAM | 22.9  | -2.25 | 20.65 | 116.14 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 632668 | 1@215  | DFT_256QAM | 22.3  | -2.25 | 20.05 | 101.16 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 632668 | 217@0  | CP_QPSK    | 24.7  | -2.25 | 22.45 | 175.79 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 632668 | 109@54 | CP_QPSK    | 26.37 | -2.25 | 24.12 | 258.23 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 632668 | 1@1    | CP_QPSK    | 25.95 | -2.25 | 23.7  | 234.42 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 632668 | 1@215  | CP_QPSK    | 25.35 | -2.25 | 23.1  | 204.17 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 632668 | 217@0  | CP_16QAM   | 24.71 | -2.25 | 22.46 | 176.2  | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 632668 | 109@54 | CP_16QAM   | 25.87 | -2.25 | 23.62 | 230.14 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 632668 | 1@1    | CP_16QAM   | 25.4  | -2.25 | 23.15 | 206.54 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 632668 | 1@215  | CP_16QAM   | 24.74 | -2.25 | 22.49 | 177.42 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 632668 | 217@0  | CP_64QAM   | 24.15 | -2.25 | 21.9  | 154.88 | 1000 | PASS |

|                |    |    |        |        |            |       |       |       |        |      |      |
|----------------|----|----|--------|--------|------------|-------|-------|-------|--------|------|------|
| n78(3450-3550) | 30 | 80 | 632668 | 109@54 | CP_64QAM   | 24.34 | -2.25 | 22.09 | 161.81 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 632668 | 1@1    | CP_64QAM   | 24.01 | -2.25 | 21.76 | 149.97 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 632668 | 1@215  | CP_64QAM   | 23.45 | -2.25 | 21.2  | 131.83 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 632668 | 217@0  | CP_256QAM  | 21.14 | -2.25 | 18.89 | 77.45  | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 632668 | 109@54 | CP_256QAM  | 21.3  | -2.25 | 19.05 | 80.35  | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 632668 | 1@1    | CP_256QAM  | 20.98 | -2.25 | 18.73 | 74.64  | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 632668 | 1@215  | CP_256QAM  | 20.64 | -2.25 | 18.39 | 69.02  | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 633334 | 216@0  | DFT_BPSK   | 27.16 | -2.25 | 24.91 | 309.74 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 633334 | 108@54 | DFT_BPSK   | 27.8  | -2.25 | 25.55 | 358.92 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 633334 | 1@1    | DFT_BPSK   | 27.33 | -2.25 | 25.08 | 322.11 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 633334 | 1@215  | DFT_BPSK   | 26.62 | -2.25 | 24.37 | 273.53 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 633334 | 216@0  | DFT_QPSK   | 26.72 | -2.25 | 24.47 | 279.9  | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 633334 | 108@54 | DFT_QPSK   | 27.81 | -2.25 | 25.56 | 359.75 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 633334 | 1@1    | DFT_QPSK   | 27.35 | -2.25 | 25.1  | 323.59 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 633334 | 1@215  | DFT_QPSK   | 26.65 | -2.25 | 24.4  | 275.42 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 633334 | 216@0  | DFT_16QAM  | 25.67 | -2.25 | 23.42 | 219.79 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 633334 | 108@54 | DFT_16QAM  | 26.84 | -2.25 | 24.59 | 287.74 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 633334 | 1@1    | DFT_16QAM  | 26.09 | -2.25 | 23.84 | 242.1  | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 633334 | 1@215  | DFT_16QAM  | 25.38 | -2.25 | 23.13 | 205.59 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 633334 | 216@0  | DFT_64QAM  | 25.17 | -2.25 | 22.92 | 195.88 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 633334 | 108@54 | DFT_64QAM  | 25.31 | -2.25 | 23.06 | 202.3  | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 633334 | 1@1    | DFT_64QAM  | 24.65 | -2.25 | 22.4  | 173.78 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 633334 | 1@215  | DFT_64QAM  | 24.01 | -2.25 | 21.76 | 149.97 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 633334 | 216@0  | DFT_256QAM | 23.1  | -2.25 | 20.85 | 121.62 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 633334 | 108@54 | DFT_256QAM | 23.27 | -2.25 | 21.02 | 126.47 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 633334 | 1@1    | DFT_256QAM | 22.74 | -2.25 | 20.49 | 111.94 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 633334 | 1@215  | DFT_256QAM | 22.01 | -2.25 | 19.76 | 94.62  | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 633334 | 217@0  | CP_QPSK    | 24.63 | -2.25 | 22.38 | 172.98 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 633334 | 109@54 | CP_QPSK    | 26.32 | -2.25 | 24.07 | 255.27 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 633334 | 1@1    | CP_QPSK    | 25.86 | -2.25 | 23.61 | 229.61 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 633334 | 1@215  | CP_QPSK    | 25.15 | -2.25 | 22.9  | 194.98 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 633334 | 217@0  | CP_16QAM   | 24.59 | -2.25 | 22.34 | 171.4  | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 633334 | 109@54 | CP_16QAM   | 25.78 | -2.25 | 23.53 | 225.42 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 633334 | 1@1    | CP_16QAM   | 25.41 | -2.25 | 23.16 | 207.01 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 633334 | 1@215  | CP_16QAM   | 24.66 | -2.25 | 22.41 | 174.18 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 633334 | 217@0  | CP_64QAM   | 24.1  | -2.25 | 21.85 | 153.11 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 633334 | 109@54 | CP_64QAM   | 24.3  | -2.25 | 22.05 | 160.32 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 633334 | 1@1    | CP_64QAM   | 24.17 | -2.25 | 21.92 | 155.6  | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 633334 | 1@215  | CP_64QAM   | 23.45 | -2.25 | 21.2  | 131.83 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 633334 | 217@0  | CP_256QAM  | 21.29 | -2.25 | 19.04 | 80.17  | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 633334 | 109@54 | CP_256QAM  | 21.36 | -2.25 | 19.11 | 81.47  | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 633334 | 1@1    | CP_256QAM  | 20.9  | -2.25 | 18.65 | 73.28  | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 633334 | 1@215  | CP_256QAM  | 20.47 | -2.25 | 18.22 | 66.37  | 1000 | PASS |



|                |    |    |        |        |            |       |       |       |        |      |      |
|----------------|----|----|--------|--------|------------|-------|-------|-------|--------|------|------|
| n78(3450-3550) | 30 | 80 | 634000 | 216@0  | DFT_BPSK   | 27.09 | -2.25 | 24.84 | 304.79 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 634000 | 108@54 | DFT_BPSK   | 27.77 | -2.25 | 25.52 | 356.45 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 634000 | 1@1    | DFT_BPSK   | 27.34 | -2.25 | 25.09 | 322.85 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 634000 | 1@215  | DFT_BPSK   | 26.54 | -2.25 | 24.29 | 268.53 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 634000 | 216@0  | DFT_QPSK   | 26.57 | -2.25 | 24.32 | 270.4  | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 634000 | 108@54 | DFT_QPSK   | 27.7  | -2.25 | 25.45 | 350.75 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 634000 | 1@1    | DFT_QPSK   | 27.39 | -2.25 | 25.14 | 326.59 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 634000 | 1@215  | DFT_QPSK   | 26.55 | -2.25 | 24.3  | 269.15 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 634000 | 216@0  | DFT_16QAM  | 25.58 | -2.25 | 23.33 | 215.28 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 634000 | 108@54 | DFT_16QAM  | 26.72 | -2.25 | 24.47 | 279.9  | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 634000 | 1@1    | DFT_16QAM  | 26.22 | -2.25 | 23.97 | 249.46 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 634000 | 1@215  | DFT_16QAM  | 25.39 | -2.25 | 23.14 | 206.06 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 634000 | 216@0  | DFT_64QAM  | 25.05 | -2.25 | 22.8  | 190.55 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 634000 | 108@54 | DFT_64QAM  | 25.18 | -2.25 | 22.93 | 196.34 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 634000 | 1@1    | DFT_64QAM  | 24.98 | -2.25 | 22.73 | 187.5  | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 634000 | 1@215  | DFT_64QAM  | 24.08 | -2.25 | 21.83 | 152.41 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 634000 | 216@0  | DFT_256QAM | 23.01 | -2.25 | 20.76 | 119.12 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 634000 | 108@54 | DFT_256QAM | 23.21 | -2.25 | 20.96 | 124.74 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 634000 | 1@1    | DFT_256QAM | 22.89 | -2.25 | 20.64 | 115.88 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 634000 | 1@215  | DFT_256QAM | 22.05 | -2.25 | 19.8  | 95.5   | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 634000 | 217@0  | CP_QPSK    | 24.59 | -2.25 | 22.34 | 171.4  | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 634000 | 109@54 | CP_QPSK    | 26.2  | -2.25 | 23.95 | 248.31 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 634000 | 1@1    | CP_QPSK    | 25.98 | -2.25 | 23.73 | 236.05 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 634000 | 1@215  | CP_QPSK    | 25.09 | -2.25 | 22.84 | 192.31 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 634000 | 217@0  | CP_16QAM   | 24.55 | -2.25 | 22.3  | 169.82 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 634000 | 109@54 | CP_16QAM   | 25.71 | -2.25 | 23.46 | 221.82 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 634000 | 1@1    | CP_16QAM   | 25.42 | -2.25 | 23.17 | 207.49 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 634000 | 1@215  | CP_16QAM   | 24.58 | -2.25 | 22.33 | 171    | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 634000 | 217@0  | CP_64QAM   | 24.03 | -2.25 | 21.78 | 150.66 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 634000 | 109@54 | CP_64QAM   | 24.18 | -2.25 | 21.93 | 155.96 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 634000 | 1@1    | CP_64QAM   | 24.04 | -2.25 | 21.79 | 151.01 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 634000 | 1@215  | CP_64QAM   | 23.25 | -2.25 | 21    | 125.89 | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 634000 | 217@0  | CP_256QAM  | 21.19 | -2.25 | 18.94 | 78.34  | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 634000 | 109@54 | CP_256QAM  | 21.27 | -2.25 | 19.02 | 79.8   | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 634000 | 1@1    | CP_256QAM  | 20.91 | -2.25 | 18.66 | 73.45  | 1000 | PASS |
| n78(3450-3550) | 30 | 80 | 634000 | 1@215  | CP_256QAM  | 20.45 | -2.25 | 18.2  | 66.07  | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633000 | 243@0  | DFT_BPSK   | 27.1  | -2.25 | 24.85 | 305.49 | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633000 | 120@60 | DFT_BPSK   | 27.77 | -2.25 | 25.52 | 356.45 | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633000 | 1@1    | DFT_BPSK   | 27.17 | -2.25 | 24.92 | 310.46 | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633000 | 1@243  | DFT_BPSK   | 26.43 | -2.25 | 24.18 | 261.82 | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633000 | 243@0  | DFT_QPSK   | 26.62 | -2.25 | 24.37 | 273.53 | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633000 | 120@60 | DFT_QPSK   | 27.83 | -2.25 | 25.58 | 361.41 | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633000 | 1@1    | DFT_QPSK   | 27.16 | -2.25 | 24.91 | 309.74 | 1000 | PASS |

|                |    |    |        |        |            |       |       |       |        |      |      |
|----------------|----|----|--------|--------|------------|-------|-------|-------|--------|------|------|
| n78(3450-3550) | 30 | 90 | 633000 | 1@243  | DFT_QPSK   | 26.51 | -2.25 | 24.26 | 266.69 | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633000 | 243@0  | DFT_16QAM  | 25.63 | -2.25 | 23.38 | 217.77 | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633000 | 120@60 | DFT_16QAM  | 26.82 | -2.25 | 24.57 | 286.42 | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633000 | 1@1    | DFT_16QAM  | 25.9  | -2.25 | 23.65 | 231.74 | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633000 | 1@243  | DFT_16QAM  | 25.19 | -2.25 | 22.94 | 196.79 | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633000 | 243@0  | DFT_64QAM  | 25.09 | -2.25 | 22.84 | 192.31 | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633000 | 120@60 | DFT_64QAM  | 25.29 | -2.25 | 23.04 | 201.37 | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633000 | 1@1    | DFT_64QAM  | 24.61 | -2.25 | 22.36 | 172.19 | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633000 | 1@243  | DFT_64QAM  | 23.91 | -2.25 | 21.66 | 146.55 | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633000 | 243@0  | DFT_256QAM | 23.07 | -2.25 | 20.82 | 120.78 | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633000 | 120@60 | DFT_256QAM | 23.3  | -2.25 | 21.05 | 127.35 | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633000 | 1@1    | DFT_256QAM | 22.69 | -2.25 | 20.44 | 110.66 | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633000 | 1@243  | DFT_256QAM | 21.97 | -2.25 | 19.72 | 93.76  | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633000 | 245@0  | CP_QPSK    | 24.56 | -2.25 | 22.31 | 170.22 | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633000 | 123@61 | CP_QPSK    | 26.27 | -2.25 | 24.02 | 252.35 | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633000 | 1@1    | CP_QPSK    | 25.7  | -2.25 | 23.45 | 221.31 | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633000 | 1@243  | CP_QPSK    | 24.97 | -2.25 | 22.72 | 187.07 | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633000 | 245@0  | CP_16QAM   | 24.58 | -2.25 | 22.33 | 171    | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633000 | 123@61 | CP_16QAM   | 25.75 | -2.25 | 23.5  | 223.87 | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633000 | 1@1    | CP_16QAM   | 25.23 | -2.25 | 22.98 | 198.61 | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633000 | 1@243  | CP_16QAM   | 24.47 | -2.25 | 22.22 | 166.72 | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633000 | 245@0  | CP_64QAM   | 24.04 | -2.25 | 21.79 | 151.01 | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633000 | 123@61 | CP_64QAM   | 24.26 | -2.25 | 22.01 | 158.85 | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633000 | 1@1    | CP_64QAM   | 23.87 | -2.25 | 21.62 | 145.21 | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633000 | 1@243  | CP_64QAM   | 23.12 | -2.25 | 20.87 | 122.18 | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633000 | 245@0  | CP_256QAM  | 21.22 | -2.25 | 18.97 | 78.89  | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633000 | 123@61 | CP_256QAM  | 21.18 | -2.25 | 18.93 | 78.16  | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633000 | 1@1    | CP_256QAM  | 20.71 | -2.25 | 18.46 | 70.15  | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633000 | 1@243  | CP_256QAM  | 20.39 | -2.25 | 18.14 | 65.16  | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633334 | 243@0  | DFT_BPSK   | 27.1  | -2.25 | 24.85 | 305.49 | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633334 | 120@60 | DFT_BPSK   | 27.78 | -2.25 | 25.53 | 357.27 | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633334 | 1@1    | DFT_BPSK   | 27.19 | -2.25 | 24.94 | 311.89 | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633334 | 1@243  | DFT_BPSK   | 26.42 | -2.25 | 24.17 | 261.22 | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633334 | 243@0  | DFT_QPSK   | 26.63 | -2.25 | 24.38 | 274.16 | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633334 | 120@60 | DFT_QPSK   | 27.82 | -2.25 | 25.57 | 360.58 | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633334 | 1@1    | DFT_QPSK   | 27.16 | -2.25 | 24.91 | 309.74 | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633334 | 1@243  | DFT_QPSK   | 26.36 | -2.25 | 24.11 | 257.63 | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633334 | 243@0  | DFT_16QAM  | 25.6  | -2.25 | 23.35 | 216.27 | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633334 | 120@60 | DFT_16QAM  | 26.82 | -2.25 | 24.57 | 286.42 | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633334 | 1@1    | DFT_16QAM  | 25.92 | -2.25 | 23.67 | 232.81 | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633334 | 1@243  | DFT_16QAM  | 25.16 | -2.25 | 22.91 | 195.43 | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633334 | 243@0  | DFT_64QAM  | 25.11 | -2.25 | 22.86 | 193.2  | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633334 | 120@60 | DFT_64QAM  | 25.3  | -2.25 | 23.05 | 201.84 | 1000 | PASS |

|                |    |    |        |        |            |       |       |       |        |      |      |
|----------------|----|----|--------|--------|------------|-------|-------|-------|--------|------|------|
| n78(3450-3550) | 30 | 90 | 633334 | 1@1    | DFT_64QAM  | 24.58 | -2.25 | 22.33 | 171    | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633334 | 1@243  | DFT_64QAM  | 23.87 | -2.25 | 21.62 | 145.21 | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633334 | 243@0  | DFT_256QAM | 23.05 | -2.25 | 20.8  | 120.23 | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633334 | 120@60 | DFT_256QAM | 23.29 | -2.25 | 21.04 | 127.06 | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633334 | 1@1    | DFT_256QAM | 22.68 | -2.25 | 20.43 | 110.41 | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633334 | 1@243  | DFT_256QAM | 21.91 | -2.25 | 19.66 | 92.47  | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633334 | 245@0  | CP_QPSK    | 24.59 | -2.25 | 22.34 | 171.4  | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633334 | 123@61 | CP_QPSK    | 26.27 | -2.25 | 24.02 | 252.35 | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633334 | 1@1    | CP_QPSK    | 25.77 | -2.25 | 23.52 | 224.91 | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633334 | 1@243  | CP_QPSK    | 24.94 | -2.25 | 22.69 | 185.78 | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633334 | 245@0  | CP_16QAM   | 24.59 | -2.25 | 22.34 | 171.4  | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633334 | 123@61 | CP_16QAM   | 25.78 | -2.25 | 23.53 | 225.42 | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633334 | 1@1    | CP_16QAM   | 25.18 | -2.25 | 22.93 | 196.34 | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633334 | 1@243  | CP_16QAM   | 24.41 | -2.25 | 22.16 | 164.44 | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633334 | 245@0  | CP_64QAM   | 24.05 | -2.25 | 21.8  | 151.36 | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633334 | 123@61 | CP_64QAM   | 24.27 | -2.25 | 22.02 | 159.22 | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633334 | 1@1    | CP_64QAM   | 23.84 | -2.25 | 21.59 | 144.21 | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633334 | 1@243  | CP_64QAM   | 23.07 | -2.25 | 20.82 | 120.78 | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633334 | 245@0  | CP_256QAM  | 21.22 | -2.25 | 18.97 | 78.89  | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633334 | 123@61 | CP_256QAM  | 21.2  | -2.25 | 18.95 | 78.52  | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633334 | 1@1    | CP_256QAM  | 20.75 | -2.25 | 18.5  | 70.79  | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633334 | 1@243  | CP_256QAM  | 20.31 | -2.25 | 18.06 | 63.97  | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633666 | 243@0  | DFT_BPSK   | 27.13 | -2.25 | 24.88 | 307.61 | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633666 | 120@60 | DFT_BPSK   | 27.83 | -2.25 | 25.58 | 361.41 | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633666 | 1@1    | DFT_BPSK   | 27.25 | -2.25 | 25    | 316.23 | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633666 | 1@243  | DFT_BPSK   | 26.43 | -2.25 | 24.18 | 261.82 | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633666 | 243@0  | DFT_QPSK   | 26.63 | -2.25 | 24.38 | 274.16 | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633666 | 120@60 | DFT_QPSK   | 27.81 | -2.25 | 25.56 | 359.75 | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633666 | 1@1    | DFT_QPSK   | 27.27 | -2.25 | 25.02 | 317.69 | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633666 | 1@243  | DFT_QPSK   | 26.37 | -2.25 | 24.12 | 258.23 | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633666 | 243@0  | DFT_16QAM  | 25.64 | -2.25 | 23.39 | 218.27 | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633666 | 120@60 | DFT_16QAM  | 26.79 | -2.25 | 24.54 | 284.45 | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633666 | 1@1    | DFT_16QAM  | 25.99 | -2.25 | 23.74 | 236.59 | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633666 | 1@243  | DFT_16QAM  | 25.13 | -2.25 | 22.88 | 194.09 | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633666 | 243@0  | DFT_64QAM  | 25.12 | -2.25 | 22.87 | 193.64 | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633666 | 120@60 | DFT_64QAM  | 25.31 | -2.25 | 23.06 | 202.3  | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633666 | 1@1    | DFT_64QAM  | 24.68 | -2.25 | 22.43 | 174.98 | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633666 | 1@243  | DFT_64QAM  | 23.85 | -2.25 | 21.6  | 144.54 | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633666 | 243@0  | DFT_256QAM | 23.11 | -2.25 | 20.86 | 121.9  | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633666 | 120@60 | DFT_256QAM | 23.27 | -2.25 | 21.02 | 126.47 | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633666 | 1@1    | DFT_256QAM | 22.77 | -2.25 | 20.52 | 112.72 | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633666 | 1@243  | DFT_256QAM | 21.92 | -2.25 | 19.67 | 92.68  | 1000 | PASS |
| n78(3450-3550) | 30 | 90 | 633666 | 245@0  | CP_QPSK    | 24.62 | -2.25 | 22.37 | 172.58 | 1000 | PASS |

|                |    |     |        |        |            |       |       |       |        |      |      |
|----------------|----|-----|--------|--------|------------|-------|-------|-------|--------|------|------|
| n78(3450-3550) | 30 | 90  | 633666 | 123@61 | CP_QPSK    | 26.28 | -2.25 | 24.03 | 252.93 | 1000 | PASS |
| n78(3450-3550) | 30 | 90  | 633666 | 1@1    | CP_QPSK    | 25.87 | -2.25 | 23.62 | 230.14 | 1000 | PASS |
| n78(3450-3550) | 30 | 90  | 633666 | 1@243  | CP_QPSK    | 24.97 | -2.25 | 22.72 | 187.07 | 1000 | PASS |
| n78(3450-3550) | 30 | 90  | 633666 | 245@0  | CP_16QAM   | 24.61 | -2.25 | 22.36 | 172.19 | 1000 | PASS |
| n78(3450-3550) | 30 | 90  | 633666 | 123@61 | CP_16QAM   | 25.77 | -2.25 | 23.52 | 224.91 | 1000 | PASS |
| n78(3450-3550) | 30 | 90  | 633666 | 1@1    | CP_16QAM   | 25.3  | -2.25 | 23.05 | 201.84 | 1000 | PASS |
| n78(3450-3550) | 30 | 90  | 633666 | 1@243  | CP_16QAM   | 24.54 | -2.25 | 22.29 | 169.43 | 1000 | PASS |
| n78(3450-3550) | 30 | 90  | 633666 | 245@0  | CP_64QAM   | 24.11 | -2.25 | 21.86 | 153.46 | 1000 | PASS |
| n78(3450-3550) | 30 | 90  | 633666 | 123@61 | CP_64QAM   | 24.25 | -2.25 | 22    | 158.49 | 1000 | PASS |
| n78(3450-3550) | 30 | 90  | 633666 | 1@1    | CP_64QAM   | 23.94 | -2.25 | 21.69 | 147.57 | 1000 | PASS |
| n78(3450-3550) | 30 | 90  | 633666 | 1@243  | CP_64QAM   | 23.18 | -2.25 | 20.93 | 123.88 | 1000 | PASS |
| n78(3450-3550) | 30 | 90  | 633666 | 245@0  | CP_256QAM  | 21.24 | -2.25 | 18.99 | 79.25  | 1000 | PASS |
| n78(3450-3550) | 30 | 90  | 633666 | 123@61 | CP_256QAM  | 21.31 | -2.25 | 19.06 | 80.54  | 1000 | PASS |
| n78(3450-3550) | 30 | 90  | 633666 | 1@1    | CP_256QAM  | 20.85 | -2.25 | 18.6  | 72.44  | 1000 | PASS |
| n78(3450-3550) | 30 | 90  | 633666 | 1@243  | CP_256QAM  | 20.37 | -2.25 | 18.12 | 64.86  | 1000 | PASS |
| n78(3450-3550) | 30 | 100 | 633334 | 270@0  | DFT_BPSK   | 27.05 | -2.25 | 24.8  | 302    | 1000 | PASS |
| n78(3450-3550) | 30 | 100 | 633334 | 135@67 | DFT_BPSK   | 27.77 | -2.25 | 25.52 | 356.45 | 1000 | PASS |
| n78(3450-3550) | 30 | 100 | 633334 | 1@1    | DFT_BPSK   | 27.06 | -2.25 | 24.81 | 302.69 | 1000 | PASS |
| n78(3450-3550) | 30 | 100 | 633334 | 1@271  | DFT_BPSK   | 26.23 | -2.25 | 23.98 | 250.03 | 1000 | PASS |
| n78(3450-3550) | 30 | 100 | 633334 | 270@0  | DFT_QPSK   | 26.53 | -2.25 | 24.28 | 267.92 | 1000 | PASS |
| n78(3450-3550) | 30 | 100 | 633334 | 135@67 | DFT_QPSK   | 27.78 | -2.25 | 25.53 | 357.27 | 1000 | PASS |
| n78(3450-3550) | 30 | 100 | 633334 | 1@1    | DFT_QPSK   | 27.09 | -2.25 | 24.84 | 304.79 | 1000 | PASS |
| n78(3450-3550) | 30 | 100 | 633334 | 1@271  | DFT_QPSK   | 26.21 | -2.25 | 23.96 | 248.89 | 1000 | PASS |
| n78(3450-3550) | 30 | 100 | 633334 | 270@0  | DFT_16QAM  | 25.51 | -2.25 | 23.26 | 211.84 | 1000 | PASS |
| n78(3450-3550) | 30 | 100 | 633334 | 135@67 | DFT_16QAM  | 26.79 | -2.25 | 24.54 | 284.45 | 1000 | PASS |
| n78(3450-3550) | 30 | 100 | 633334 | 1@1    | DFT_16QAM  | 25.84 | -2.25 | 23.59 | 228.56 | 1000 | PASS |
| n78(3450-3550) | 30 | 100 | 633334 | 1@271  | DFT_16QAM  | 24.97 | -2.25 | 22.72 | 187.07 | 1000 | PASS |
| n78(3450-3550) | 30 | 100 | 633334 | 270@0  | DFT_64QAM  | 25.02 | -2.25 | 22.77 | 189.23 | 1000 | PASS |
| n78(3450-3550) | 30 | 100 | 633334 | 135@67 | DFT_64QAM  | 25.31 | -2.25 | 23.06 | 202.3  | 1000 | PASS |
| n78(3450-3550) | 30 | 100 | 633334 | 1@1    | DFT_64QAM  | 24.37 | -2.25 | 22.12 | 162.93 | 1000 | PASS |
| n78(3450-3550) | 30 | 100 | 633334 | 1@271  | DFT_64QAM  | 23.48 | -2.25 | 21.23 | 132.74 | 1000 | PASS |
| n78(3450-3550) | 30 | 100 | 633334 | 270@0  | DFT_256QAM | 23.01 | -2.25 | 20.76 | 119.12 | 1000 | PASS |
| n78(3450-3550) | 30 | 100 | 633334 | 135@67 | DFT_256QAM | 23.3  | -2.25 | 21.05 | 127.35 | 1000 | PASS |
| n78(3450-3550) | 30 | 100 | 633334 | 1@1    | DFT_256QAM | 22.63 | -2.25 | 20.38 | 109.14 | 1000 | PASS |
| n78(3450-3550) | 30 | 100 | 633334 | 1@271  | DFT_256QAM | 21.71 | -2.25 | 19.46 | 88.31  | 1000 | PASS |
| n78(3450-3550) | 30 | 100 | 633334 | 273@0  | CP_QPSK    | 24.49 | -2.25 | 22.24 | 167.49 | 1000 | PASS |
| n78(3450-3550) | 30 | 100 | 633334 | 137@68 | CP_QPSK    | 26.32 | -2.25 | 24.07 | 255.27 | 1000 | PASS |
| n78(3450-3550) | 30 | 100 | 633334 | 1@1    | CP_QPSK    | 25.55 | -2.25 | 23.3  | 213.8  | 1000 | PASS |
| n78(3450-3550) | 30 | 100 | 633334 | 1@271  | CP_QPSK    | 24.72 | -2.25 | 22.47 | 176.6  | 1000 | PASS |
| n78(3450-3550) | 30 | 100 | 633334 | 273@0  | CP_16QAM   | 24.48 | -2.25 | 22.23 | 167.11 | 1000 | PASS |
| n78(3450-3550) | 30 | 100 | 633334 | 137@68 | CP_16QAM   | 25.79 | -2.25 | 23.54 | 225.94 | 1000 | PASS |
| n78(3450-3550) | 30 | 100 | 633334 | 1@1    | CP_16QAM   | 25.12 | -2.25 | 22.87 | 193.64 | 1000 | PASS |
| n78(3450-3550) | 30 | 100 | 633334 | 1@271  | CP_16QAM   | 24.25 | -2.25 | 22    | 158.49 | 1000 | PASS |

|                |    |     |        |        |           |       |       |       |        |      |      |
|----------------|----|-----|--------|--------|-----------|-------|-------|-------|--------|------|------|
| n78(3450-3550) | 30 | 100 | 633334 | 273@0  | CP_64QAM  | 24    | -2.25 | 21.75 | 149.62 | 1000 | PASS |
| n78(3450-3550) | 30 | 100 | 633334 | 137@68 | CP_64QAM  | 24.22 | -2.25 | 21.97 | 157.4  | 1000 | PASS |
| n78(3450-3550) | 30 | 100 | 633334 | 1@1    | CP_64QAM  | 23.85 | -2.25 | 21.6  | 144.54 | 1000 | PASS |
| n78(3450-3550) | 30 | 100 | 633334 | 1@271  | CP_64QAM  | 23.01 | -2.25 | 20.76 | 119.12 | 1000 | PASS |
| n78(3450-3550) | 30 | 100 | 633334 | 273@0  | CP_256QAM | 21.17 | -2.25 | 18.92 | 77.98  | 1000 | PASS |
| n78(3450-3550) | 30 | 100 | 633334 | 137@68 | CP_256QAM | 21.35 | -2.25 | 19.1  | 81.28  | 1000 | PASS |
| n78(3450-3550) | 30 | 100 | 633334 | 1@1    | CP_256QAM | 20.54 | -2.25 | 18.29 | 67.45  | 1000 | PASS |
| n78(3450-3550) | 30 | 100 | 633334 | 1@271  | CP_256QAM | 20.14 | -2.25 | 17.89 | 61.52  | 1000 | PASS |

| Band       | SCS<br>(kHz) | Bandwidth<br>(MHz) | UL<br>Channel | RB<br>Allocation | Modulation | Power<br>(dBm) | GT -<br>Lc<br>(dB) | EIRP<br>(dBm) | EIRP<br>(mW) | EIRP<br>Limit<br>(mW) | Verdict |
|------------|--------------|--------------------|---------------|------------------|------------|----------------|--------------------|---------------|--------------|-----------------------|---------|
| DC_4A_n78A | 30           | 10                 | 630334        | 24@0             | DFT_BPSK   | 27.54          | -2.25              | 25.29         | 338.06       | 1000                  | PASS    |
| DC_4A_n78A | 30           | 10                 | 630334        | 12@6             | DFT_BPSK   | 27.98          | -2.25              | 25.73         | 374.11       | 1000                  | PASS    |
| DC_4A_n78A | 30           | 10                 | 630334        | 1@1              | DFT_BPSK   | 27.95          | -2.25              | 25.7          | 371.54       | 1000                  | PASS    |
| DC_4A_n78A | 30           | 10                 | 630334        | 1@22             | DFT_BPSK   | 27.87          | -2.25              | 25.62         | 364.75       | 1000                  | PASS    |
| DC_4A_n78A | 30           | 10                 | 630334        | 24@0             | DFT_QPSK   | 27.06          | -2.25              | 24.81         | 302.69       | 1000                  | PASS    |
| DC_4A_n78A | 30           | 10                 | 630334        | 12@6             | DFT_QPSK   | 28.01          | -2.25              | 25.76         | 376.7        | 1000                  | PASS    |
| DC_4A_n78A | 30           | 10                 | 630334        | 1@1              | DFT_QPSK   | 27.97          | -2.25              | 25.72         | 373.25       | 1000                  | PASS    |
| DC_4A_n78A | 30           | 10                 | 630334        | 1@22             | DFT_QPSK   | 27.89          | -2.25              | 25.64         | 366.44       | 1000                  | PASS    |
| DC_4A_n78A | 30           | 10                 | 630334        | 24@0             | DFT_16QAM  | 26.01          | -2.25              | 23.76         | 237.68       | 1000                  | PASS    |
| DC_4A_n78A | 30           | 10                 | 630334        | 12@6             | DFT_16QAM  | 27.04          | -2.25              | 24.79         | 301.3        | 1000                  | PASS    |
| DC_4A_n78A | 30           | 10                 | 630334        | 1@1              | DFT_16QAM  | 26.91          | -2.25              | 24.66         | 292.42       | 1000                  | PASS    |
| DC_4A_n78A | 30           | 10                 | 630334        | 1@22             | DFT_16QAM  | 26.82          | -2.25              | 24.57         | 286.42       | 1000                  | PASS    |
| DC_4A_n78A | 30           | 10                 | 630334        | 24@0             | DFT_64QAM  | 25.49          | -2.25              | 23.24         | 210.86       | 1000                  | PASS    |
| DC_4A_n78A | 30           | 10                 | 630334        | 12@6             | DFT_64QAM  | 25.54          | -2.25              | 23.29         | 213.3        | 1000                  | PASS    |
| DC_4A_n78A | 30           | 10                 | 630334        | 1@1              | DFT_64QAM  | 25.4           | -2.25              | 23.15         | 206.54       | 1000                  | PASS    |
| DC_4A_n78A | 30           | 10                 | 630334        | 1@22             | DFT_64QAM  | 25.31          | -2.25              | 23.06         | 202.3        | 1000                  | PASS    |
| DC_4A_n78A | 30           | 10                 | 630334        | 24@0             | DFT_256QAM | 23.5           | -2.25              | 21.25         | 133.35       | 1000                  | PASS    |
| DC_4A_n78A | 30           | 10                 | 630334        | 12@6             | DFT_256QAM | 23.47          | -2.25              | 21.22         | 132.43       | 1000                  | PASS    |
| DC_4A_n78A | 30           | 10                 | 630334        | 1@1              | DFT_256QAM | 23.33          | -2.25              | 21.08         | 128.23       | 1000                  | PASS    |
| DC_4A_n78A | 30           | 10                 | 630334        | 1@22             | DFT_256QAM | 23.22          | -2.25              | 20.97         | 125.03       | 1000                  | PASS    |
| DC_4A_n78A | 30           | 10                 | 630334        | 24@0             | CP_QPSK    | 25             | -2.25              | 22.75         | 188.36       | 1000                  | PASS    |
| DC_4A_n78A | 30           | 10                 | 630334        | 12@6             | CP_QPSK    | 26.54          | -2.25              | 24.29         | 268.53       | 1000                  | PASS    |
| DC_4A_n78A | 30           | 10                 | 630334        | 1@1              | CP_QPSK    | 26.59          | -2.25              | 24.34         | 271.64       | 1000                  | PASS    |
| DC_4A_n78A | 30           | 10                 | 630334        | 1@22             | CP_QPSK    | 26.54          | -2.25              | 24.29         | 268.53       | 1000                  | PASS    |
| DC_4A_n78A | 30           | 10                 | 630334        | 24@0             | CP_16QAM   | 25.03          | -2.25              | 22.78         | 189.67       | 1000                  | PASS    |
| DC_4A_n78A | 30           | 10                 | 630334        | 12@6             | CP_16QAM   | 25.95          | -2.25              | 23.7          | 234.42       | 1000                  | PASS    |
| DC_4A_n78A | 30           | 10                 | 630334        | 1@1              | CP_16QAM   | 26.05          | -2.25              | 23.8          | 239.88       | 1000                  | PASS    |
| DC_4A_n78A | 30           | 10                 | 630334        | 1@22             | CP_16QAM   | 26             | -2.25              | 23.75         | 237.14       | 1000                  | PASS    |
| DC_4A_n78A | 30           | 10                 | 630334        | 24@0             | CP_64QAM   | 24.53          | -2.25              | 22.28         | 169.04       | 1000                  | PASS    |
| DC_4A_n78A | 30           | 10                 | 630334        | 12@6             | CP_64QAM   | 24.5           | -2.25              | 22.25         | 167.88       | 1000                  | PASS    |
| DC_4A_n78A | 30           | 10                 | 630334        | 1@1              | CP_64QAM   | 24.57          | -2.25              | 22.32         | 170.61       | 1000                  | PASS    |



|            |    |    |        |      |            |       |       |       |        |      |      |
|------------|----|----|--------|------|------------|-------|-------|-------|--------|------|------|
| DC_4A_n78A | 30 | 10 | 630334 | 1@22 | CP_64QAM   | 24.46 | -2.25 | 22.21 | 166.34 | 1000 | PASS |
| DC_4A_n78A | 30 | 10 | 630334 | 24@0 | CP_256QAM  | 21.46 | -2.25 | 19.21 | 83.37  | 1000 | PASS |
| DC_4A_n78A | 30 | 10 | 630334 | 12@6 | CP_256QAM  | 21.44 | -2.25 | 19.19 | 82.99  | 1000 | PASS |
| DC_4A_n78A | 30 | 10 | 630334 | 1@1  | CP_256QAM  | 21.32 | -2.25 | 19.07 | 80.72  | 1000 | PASS |
| DC_4A_n78A | 30 | 10 | 630334 | 1@22 | CP_256QAM  | 21.28 | -2.25 | 19.03 | 79.98  | 1000 | PASS |
| DC_4A_n78A | 30 | 10 | 633334 | 24@0 | DFT_BPSK   | 27.32 | -2.25 | 25.07 | 321.37 | 1000 | PASS |
| DC_4A_n78A | 30 | 10 | 633334 | 12@6 | DFT_BPSK   | 27.82 | -2.25 | 25.57 | 360.58 | 1000 | PASS |
| DC_4A_n78A | 30 | 10 | 633334 | 1@1  | DFT_BPSK   | 27.77 | -2.25 | 25.52 | 356.45 | 1000 | PASS |
| DC_4A_n78A | 30 | 10 | 633334 | 1@22 | DFT_BPSK   | 27.66 | -2.25 | 25.41 | 347.54 | 1000 | PASS |
| DC_4A_n78A | 30 | 10 | 633334 | 24@0 | DFT_QPSK   | 26.84 | -2.25 | 24.59 | 287.74 | 1000 | PASS |
| DC_4A_n78A | 30 | 10 | 633334 | 12@6 | DFT_QPSK   | 27.85 | -2.25 | 25.6  | 363.08 | 1000 | PASS |
| DC_4A_n78A | 30 | 10 | 633334 | 1@1  | DFT_QPSK   | 27.78 | -2.25 | 25.53 | 357.27 | 1000 | PASS |
| DC_4A_n78A | 30 | 10 | 633334 | 1@22 | DFT_QPSK   | 27.7  | -2.25 | 25.45 | 350.75 | 1000 | PASS |
| DC_4A_n78A | 30 | 10 | 633334 | 24@0 | DFT_16QAM  | 25.79 | -2.25 | 23.54 | 225.94 | 1000 | PASS |
| DC_4A_n78A | 30 | 10 | 633334 | 12@6 | DFT_16QAM  | 26.88 | -2.25 | 24.63 | 290.4  | 1000 | PASS |
| DC_4A_n78A | 30 | 10 | 633334 | 1@1  | DFT_16QAM  | 26.74 | -2.25 | 24.49 | 281.19 | 1000 | PASS |
| DC_4A_n78A | 30 | 10 | 633334 | 1@22 | DFT_16QAM  | 26.6  | -2.25 | 24.35 | 272.27 | 1000 | PASS |
| DC_4A_n78A | 30 | 10 | 633334 | 24@0 | DFT_64QAM  | 25.29 | -2.25 | 23.04 | 201.37 | 1000 | PASS |
| DC_4A_n78A | 30 | 10 | 633334 | 12@6 | DFT_64QAM  | 25.38 | -2.25 | 23.13 | 205.59 | 1000 | PASS |
| DC_4A_n78A | 30 | 10 | 633334 | 1@1  | DFT_64QAM  | 25.22 | -2.25 | 22.97 | 198.15 | 1000 | PASS |
| DC_4A_n78A | 30 | 10 | 633334 | 1@22 | DFT_64QAM  | 25.1  | -2.25 | 22.85 | 192.75 | 1000 | PASS |
| DC_4A_n78A | 30 | 10 | 633334 | 24@0 | DFT_256QAM | 23.28 | -2.25 | 21.03 | 126.77 | 1000 | PASS |
| DC_4A_n78A | 30 | 10 | 633334 | 12@6 | DFT_256QAM | 23.3  | -2.25 | 21.05 | 127.35 | 1000 | PASS |
| DC_4A_n78A | 30 | 10 | 633334 | 1@1  | DFT_256QAM | 23.15 | -2.25 | 20.9  | 123.03 | 1000 | PASS |
| DC_4A_n78A | 30 | 10 | 633334 | 1@22 | DFT_256QAM | 23.05 | -2.25 | 20.8  | 120.23 | 1000 | PASS |
| DC_4A_n78A | 30 | 10 | 633334 | 24@0 | CP_QPSK    | 24.79 | -2.25 | 22.54 | 179.47 | 1000 | PASS |
| DC_4A_n78A | 30 | 10 | 633334 | 12@6 | CP_QPSK    | 26.34 | -2.25 | 24.09 | 256.45 | 1000 | PASS |
| DC_4A_n78A | 30 | 10 | 633334 | 1@1  | CP_QPSK    | 26.45 | -2.25 | 24.2  | 263.03 | 1000 | PASS |
| DC_4A_n78A | 30 | 10 | 633334 | 1@22 | CP_QPSK    | 26.3  | -2.25 | 24.05 | 254.1  | 1000 | PASS |
| DC_4A_n78A | 30 | 10 | 633334 | 24@0 | CP_16QAM   | 24.82 | -2.25 | 22.57 | 180.72 | 1000 | PASS |
| DC_4A_n78A | 30 | 10 | 633334 | 12@6 | CP_16QAM   | 25.79 | -2.25 | 23.54 | 225.94 | 1000 | PASS |
| DC_4A_n78A | 30 | 10 | 633334 | 1@1  | CP_16QAM   | 25.92 | -2.25 | 23.67 | 232.81 | 1000 | PASS |
| DC_4A_n78A | 30 | 10 | 633334 | 1@22 | CP_16QAM   | 25.84 | -2.25 | 23.59 | 228.56 | 1000 | PASS |
| DC_4A_n78A | 30 | 10 | 633334 | 24@0 | CP_64QAM   | 24.36 | -2.25 | 22.11 | 162.55 | 1000 | PASS |
| DC_4A_n78A | 30 | 10 | 633334 | 12@6 | CP_64QAM   | 24.3  | -2.25 | 22.05 | 160.32 | 1000 | PASS |
| DC_4A_n78A | 30 | 10 | 633334 | 1@1  | CP_64QAM   | 24.4  | -2.25 | 22.15 | 164.06 | 1000 | PASS |
| DC_4A_n78A | 30 | 10 | 633334 | 1@22 | CP_64QAM   | 24.28 | -2.25 | 22.03 | 159.59 | 1000 | PASS |
| DC_4A_n78A | 30 | 10 | 633334 | 24@0 | CP_256QAM  | 21.25 | -2.25 | 19    | 79.43  | 1000 | PASS |
| DC_4A_n78A | 30 | 10 | 633334 | 12@6 | CP_256QAM  | 21.28 | -2.25 | 19.03 | 79.98  | 1000 | PASS |
| DC_4A_n78A | 30 | 10 | 633334 | 1@1  | CP_256QAM  | 21.21 | -2.25 | 18.96 | 78.7   | 1000 | PASS |
| DC_4A_n78A | 30 | 10 | 633334 | 1@22 | CP_256QAM  | 21.09 | -2.25 | 18.84 | 76.56  | 1000 | PASS |
| DC_4A_n78A | 30 | 10 | 636332 | 24@0 | DFT_BPSK   | 27.04 | -2.25 | 24.79 | 301.3  | 1000 | PASS |
| DC_4A_n78A | 30 | 10 | 636332 | 12@6 | DFT_BPSK   | 27.57 | -2.25 | 25.32 | 340.41 | 1000 | PASS |

|            |    |    |        |      |            |       |       |       |        |      |      |
|------------|----|----|--------|------|------------|-------|-------|-------|--------|------|------|
| DC_4A_n78A | 30 | 10 | 636332 | 1@1  | DFT_BPSK   | 27.47 | -2.25 | 25.22 | 332.66 | 1000 | PASS |
| DC_4A_n78A | 30 | 10 | 636332 | 1@22 | DFT_BPSK   | 27.45 | -2.25 | 25.2  | 331.13 | 1000 | PASS |
| DC_4A_n78A | 30 | 10 | 636332 | 24@0 | DFT_QPSK   | 26.52 | -2.25 | 24.27 | 267.3  | 1000 | PASS |
| DC_4A_n78A | 30 | 10 | 636332 | 12@6 | DFT_QPSK   | 27.6  | -2.25 | 25.35 | 342.77 | 1000 | PASS |
| DC_4A_n78A | 30 | 10 | 636332 | 1@1  | DFT_QPSK   | 27.53 | -2.25 | 25.28 | 337.29 | 1000 | PASS |
| DC_4A_n78A | 30 | 10 | 636332 | 1@22 | DFT_QPSK   | 27.43 | -2.25 | 25.18 | 329.61 | 1000 | PASS |
| DC_4A_n78A | 30 | 10 | 636332 | 24@0 | DFT_16QAM  | 25.52 | -2.25 | 23.27 | 212.32 | 1000 | PASS |
| DC_4A_n78A | 30 | 10 | 636332 | 12@6 | DFT_16QAM  | 26.62 | -2.25 | 24.37 | 273.53 | 1000 | PASS |
| DC_4A_n78A | 30 | 10 | 636332 | 1@1  | DFT_16QAM  | 26.47 | -2.25 | 24.22 | 264.24 | 1000 | PASS |
| DC_4A_n78A | 30 | 10 | 636332 | 1@22 | DFT_16QAM  | 26.38 | -2.25 | 24.13 | 258.82 | 1000 | PASS |
| DC_4A_n78A | 30 | 10 | 636332 | 24@0 | DFT_64QAM  | 25.03 | -2.25 | 22.78 | 189.67 | 1000 | PASS |
| DC_4A_n78A | 30 | 10 | 636332 | 12@6 | DFT_64QAM  | 25.11 | -2.25 | 22.86 | 193.2  | 1000 | PASS |
| DC_4A_n78A | 30 | 10 | 636332 | 1@1  | DFT_64QAM  | 24.9  | -2.25 | 22.65 | 184.08 | 1000 | PASS |
| DC_4A_n78A | 30 | 10 | 636332 | 1@22 | DFT_64QAM  | 24.84 | -2.25 | 22.59 | 181.55 | 1000 | PASS |
| DC_4A_n78A | 30 | 10 | 636332 | 24@0 | DFT_256QAM | 23    | -2.25 | 20.75 | 118.85 | 1000 | PASS |
| DC_4A_n78A | 30 | 10 | 636332 | 12@6 | DFT_256QAM | 23.05 | -2.25 | 20.8  | 120.23 | 1000 | PASS |
| DC_4A_n78A | 30 | 10 | 636332 | 1@1  | DFT_256QAM | 22.93 | -2.25 | 20.68 | 116.95 | 1000 | PASS |
| DC_4A_n78A | 30 | 10 | 636332 | 1@22 | DFT_256QAM | 22.86 | -2.25 | 20.61 | 115.08 | 1000 | PASS |
| DC_4A_n78A | 30 | 10 | 636332 | 24@0 | CP_QPSK    | 24.52 | -2.25 | 22.27 | 168.66 | 1000 | PASS |
| DC_4A_n78A | 30 | 10 | 636332 | 12@6 | CP_QPSK    | 26.1  | -2.25 | 23.85 | 242.66 | 1000 | PASS |
| DC_4A_n78A | 30 | 10 | 636332 | 1@1  | CP_QPSK    | 26.12 | -2.25 | 23.87 | 243.78 | 1000 | PASS |
| DC_4A_n78A | 30 | 10 | 636332 | 1@22 | CP_QPSK    | 26.02 | -2.25 | 23.77 | 238.23 | 1000 | PASS |
| DC_4A_n78A | 30 | 10 | 636332 | 24@0 | CP_16QAM   | 24.53 | -2.25 | 22.28 | 169.04 | 1000 | PASS |
| DC_4A_n78A | 30 | 10 | 636332 | 12@6 | CP_16QAM   | 25.53 | -2.25 | 23.28 | 212.81 | 1000 | PASS |
| DC_4A_n78A | 30 | 10 | 636332 | 1@1  | CP_16QAM   | 25.61 | -2.25 | 23.36 | 216.77 | 1000 | PASS |
| DC_4A_n78A | 30 | 10 | 636332 | 1@22 | CP_16QAM   | 25.52 | -2.25 | 23.27 | 212.32 | 1000 | PASS |
| DC_4A_n78A | 30 | 10 | 636332 | 24@0 | CP_64QAM   | 24.04 | -2.25 | 21.79 | 151.01 | 1000 | PASS |
| DC_4A_n78A | 30 | 10 | 636332 | 12@6 | CP_64QAM   | 24.07 | -2.25 | 21.82 | 152.05 | 1000 | PASS |
| DC_4A_n78A | 30 | 10 | 636332 | 1@1  | CP_64QAM   | 24.07 | -2.25 | 21.82 | 152.05 | 1000 | PASS |
| DC_4A_n78A | 30 | 10 | 636332 | 1@22 | CP_64QAM   | 24.01 | -2.25 | 21.76 | 149.97 | 1000 | PASS |
| DC_4A_n78A | 30 | 10 | 636332 | 24@0 | CP_256QAM  | 21.09 | -2.25 | 18.84 | 76.56  | 1000 | PASS |
| DC_4A_n78A | 30 | 10 | 636332 | 12@6 | CP_256QAM  | 21.15 | -2.25 | 18.9  | 77.62  | 1000 | PASS |
| DC_4A_n78A | 30 | 10 | 636332 | 1@1  | CP_256QAM  | 21.09 | -2.25 | 18.84 | 76.56  | 1000 | PASS |
| DC_4A_n78A | 30 | 10 | 636332 | 1@22 | CP_256QAM  | 21.01 | -2.25 | 18.76 | 75.16  | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 630500 | 36@0 | DFT_BPSK   | 27.51 | -2.25 | 25.26 | 335.74 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 630500 | 18@9 | DFT_BPSK   | 28.02 | -2.25 | 25.77 | 377.57 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 630500 | 1@1  | DFT_BPSK   | 27.95 | -2.25 | 25.7  | 371.54 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 630500 | 1@36 | DFT_BPSK   | 27.83 | -2.25 | 25.58 | 361.41 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 630500 | 36@0 | DFT_QPSK   | 27.03 | -2.25 | 24.78 | 300.61 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 630500 | 18@9 | DFT_QPSK   | 28.03 | -2.25 | 25.78 | 378.44 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 630500 | 1@1  | DFT_QPSK   | 28.05 | -2.25 | 25.8  | 380.19 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 630500 | 1@36 | DFT_QPSK   | 27.88 | -2.25 | 25.63 | 365.59 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 630500 | 36@0 | DFT_16QAM  | 26.08 | -2.25 | 23.83 | 241.55 | 1000 | PASS |

|            |    |    |        |      |            |       |       |       |        |      |      |
|------------|----|----|--------|------|------------|-------|-------|-------|--------|------|------|
| DC_4A_n78A | 30 | 15 | 630500 | 18@9 | DFT_16QAM  | 27.01 | -2.25 | 24.76 | 299.23 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 630500 | 1@1  | DFT_16QAM  | 26.91 | -2.25 | 24.66 | 292.42 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 630500 | 1@36 | DFT_16QAM  | 26.78 | -2.25 | 24.53 | 283.79 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 630500 | 36@0 | DFT_64QAM  | 25.51 | -2.25 | 23.26 | 211.84 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 630500 | 18@9 | DFT_64QAM  | 25.47 | -2.25 | 23.22 | 209.89 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 630500 | 1@1  | DFT_64QAM  | 25.39 | -2.25 | 23.14 | 206.06 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 630500 | 1@36 | DFT_64QAM  | 25.28 | -2.25 | 23.03 | 200.91 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 630500 | 36@0 | DFT_256QAM | 23.47 | -2.25 | 21.22 | 132.43 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 630500 | 18@9 | DFT_256QAM | 23.5  | -2.25 | 21.25 | 133.35 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 630500 | 1@1  | DFT_256QAM | 23.35 | -2.25 | 21.1  | 128.82 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 630500 | 1@36 | DFT_256QAM | 23.25 | -2.25 | 21    | 125.89 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 630500 | 38@0 | CP_QPSK    | 25.03 | -2.25 | 22.78 | 189.67 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 630500 | 19@9 | CP_QPSK    | 26.51 | -2.25 | 24.26 | 266.69 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 630500 | 1@1  | CP_QPSK    | 26.58 | -2.25 | 24.33 | 271.02 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 630500 | 1@36 | CP_QPSK    | 26.45 | -2.25 | 24.2  | 263.03 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 630500 | 38@0 | CP_16QAM   | 25    | -2.25 | 22.75 | 188.36 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 630500 | 19@9 | CP_16QAM   | 26.08 | -2.25 | 23.83 | 241.55 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 630500 | 1@1  | CP_16QAM   | 25.83 | -2.25 | 23.58 | 228.03 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 630500 | 1@36 | CP_16QAM   | 25.71 | -2.25 | 23.46 | 221.82 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 630500 | 38@0 | CP_64QAM   | 24.55 | -2.25 | 22.3  | 169.82 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 630500 | 19@9 | CP_64QAM   | 24.51 | -2.25 | 22.26 | 168.27 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 630500 | 1@1  | CP_64QAM   | 24.51 | -2.25 | 22.26 | 168.27 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 630500 | 1@36 | CP_64QAM   | 24.38 | -2.25 | 22.13 | 163.31 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 630500 | 38@0 | CP_256QAM  | 21.49 | -2.25 | 19.24 | 83.95  | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 630500 | 19@9 | CP_256QAM  | 21.45 | -2.25 | 19.2  | 83.18  | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 630500 | 1@1  | CP_256QAM  | 21.5  | -2.25 | 19.25 | 84.14  | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 630500 | 1@36 | CP_256QAM  | 21.39 | -2.25 | 19.14 | 82.04  | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 633334 | 36@0 | DFT_BPSK   | 27.35 | -2.25 | 25.1  | 323.59 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 633334 | 18@9 | DFT_BPSK   | 27.83 | -2.25 | 25.58 | 361.41 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 633334 | 1@1  | DFT_BPSK   | 27.76 | -2.25 | 25.51 | 355.63 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 633334 | 1@36 | DFT_BPSK   | 27.62 | -2.25 | 25.37 | 344.35 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 633334 | 36@0 | DFT_QPSK   | 26.79 | -2.25 | 24.54 | 284.45 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 633334 | 18@9 | DFT_QPSK   | 27.85 | -2.25 | 25.6  | 363.08 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 633334 | 1@1  | DFT_QPSK   | 27.8  | -2.25 | 25.55 | 358.92 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 633334 | 1@36 | DFT_QPSK   | 27.74 | -2.25 | 25.49 | 354    | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 633334 | 36@0 | DFT_16QAM  | 25.84 | -2.25 | 23.59 | 228.56 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 633334 | 18@9 | DFT_16QAM  | 26.88 | -2.25 | 24.63 | 290.4  | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 633334 | 1@1  | DFT_16QAM  | 26.54 | -2.25 | 24.29 | 268.53 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 633334 | 1@36 | DFT_16QAM  | 26.4  | -2.25 | 24.15 | 260.02 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 633334 | 36@0 | DFT_64QAM  | 25.39 | -2.25 | 23.14 | 206.06 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 633334 | 18@9 | DFT_64QAM  | 25.35 | -2.25 | 23.1  | 204.17 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 633334 | 1@1  | DFT_64QAM  | 25.33 | -2.25 | 23.08 | 203.24 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 633334 | 1@36 | DFT_64QAM  | 25.12 | -2.25 | 22.87 | 193.64 | 1000 | PASS |

|            |    |    |        |      |            |       |       |       |        |      |      |
|------------|----|----|--------|------|------------|-------|-------|-------|--------|------|------|
| DC_4A_n78A | 30 | 15 | 633334 | 36@0 | DFT_256QAM | 23.3  | -2.25 | 21.05 | 127.35 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 633334 | 18@9 | DFT_256QAM | 23.37 | -2.25 | 21.12 | 129.42 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 633334 | 1@1  | DFT_256QAM | 23.2  | -2.25 | 20.95 | 124.45 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 633334 | 1@36 | DFT_256QAM | 23.08 | -2.25 | 20.83 | 121.06 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 633334 | 38@0 | CP_QPSK    | 24.82 | -2.25 | 22.57 | 180.72 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 633334 | 19@9 | CP_QPSK    | 26.35 | -2.25 | 24.1  | 257.04 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 633334 | 1@1  | CP_QPSK    | 26.42 | -2.25 | 24.17 | 261.22 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 633334 | 1@36 | CP_QPSK    | 26.27 | -2.25 | 24.02 | 252.35 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 633334 | 38@0 | CP_16QAM   | 24.8  | -2.25 | 22.55 | 179.89 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 633334 | 19@9 | CP_16QAM   | 25.87 | -2.25 | 23.62 | 230.14 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 633334 | 1@1  | CP_16QAM   | 25.91 | -2.25 | 23.66 | 232.27 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 633334 | 1@36 | CP_16QAM   | 25.74 | -2.25 | 23.49 | 223.36 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 633334 | 38@0 | CP_64QAM   | 24.32 | -2.25 | 22.07 | 161.06 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 633334 | 19@9 | CP_64QAM   | 24.29 | -2.25 | 22.04 | 159.96 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 633334 | 1@1  | CP_64QAM   | 24.37 | -2.25 | 22.12 | 162.93 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 633334 | 1@36 | CP_64QAM   | 24.23 | -2.25 | 21.98 | 157.76 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 633334 | 38@0 | CP_256QAM  | 21.28 | -2.25 | 19.03 | 79.98  | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 633334 | 19@9 | CP_256QAM  | 21.31 | -2.25 | 19.06 | 80.54  | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 633334 | 1@1  | CP_256QAM  | 21.22 | -2.25 | 18.97 | 78.89  | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 633334 | 1@36 | CP_256QAM  | 21.06 | -2.25 | 18.81 | 76.03  | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 636166 | 36@0 | DFT_BPSK   | 27.08 | -2.25 | 24.83 | 304.09 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 636166 | 18@9 | DFT_BPSK   | 27.58 | -2.25 | 25.33 | 341.19 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 636166 | 1@1  | DFT_BPSK   | 27.52 | -2.25 | 25.27 | 336.51 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 636166 | 1@36 | DFT_BPSK   | 27.4  | -2.25 | 25.15 | 327.34 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 636166 | 36@0 | DFT_QPSK   | 26.58 | -2.25 | 24.33 | 271.02 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 636166 | 18@9 | DFT_QPSK   | 27.59 | -2.25 | 25.34 | 341.98 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 636166 | 1@1  | DFT_QPSK   | 27.55 | -2.25 | 25.3  | 338.84 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 636166 | 1@36 | DFT_QPSK   | 27.45 | -2.25 | 25.2  | 331.13 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 636166 | 36@0 | DFT_16QAM  | 25.64 | -2.25 | 23.39 | 218.27 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 636166 | 18@9 | DFT_16QAM  | 26.55 | -2.25 | 24.3  | 269.15 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 636166 | 1@1  | DFT_16QAM  | 26.5  | -2.25 | 24.25 | 266.07 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 636166 | 1@36 | DFT_16QAM  | 26.34 | -2.25 | 24.09 | 256.45 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 636166 | 36@0 | DFT_64QAM  | 25.07 | -2.25 | 22.82 | 191.43 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 636166 | 18@9 | DFT_64QAM  | 25.07 | -2.25 | 22.82 | 191.43 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 636166 | 1@1  | DFT_64QAM  | 24.98 | -2.25 | 22.73 | 187.5  | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 636166 | 1@36 | DFT_64QAM  | 24.86 | -2.25 | 22.61 | 182.39 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 636166 | 36@0 | DFT_256QAM | 23.02 | -2.25 | 20.77 | 119.4  | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 636166 | 18@9 | DFT_256QAM | 23.06 | -2.25 | 20.81 | 120.5  | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 636166 | 1@1  | DFT_256QAM | 22.93 | -2.25 | 20.68 | 116.95 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 636166 | 1@36 | DFT_256QAM | 22.81 | -2.25 | 20.56 | 113.76 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 636166 | 38@0 | CP_QPSK    | 24.55 | -2.25 | 22.3  | 169.82 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 636166 | 19@9 | CP_QPSK    | 26.11 | -2.25 | 23.86 | 243.22 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 636166 | 1@1  | CP_QPSK    | 26.18 | -2.25 | 23.93 | 247.17 | 1000 | PASS |

|            |    |    |        |       |            |       |       |       |        |      |      |
|------------|----|----|--------|-------|------------|-------|-------|-------|--------|------|------|
| DC_4A_n78A | 30 | 15 | 636166 | 1@36  | CP_QPSK    | 26.04 | -2.25 | 23.79 | 239.33 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 636166 | 38@0  | CP_16QAM   | 24.55 | -2.25 | 22.3  | 169.82 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 636166 | 19@9  | CP_16QAM   | 25.6  | -2.25 | 23.35 | 216.27 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 636166 | 1@1   | CP_16QAM   | 25.63 | -2.25 | 23.38 | 217.77 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 636166 | 1@36  | CP_16QAM   | 25.52 | -2.25 | 23.27 | 212.32 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 636166 | 38@0  | CP_64QAM   | 24.03 | -2.25 | 21.78 | 150.66 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 636166 | 19@9  | CP_64QAM   | 24.06 | -2.25 | 21.81 | 151.71 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 636166 | 1@1   | CP_64QAM   | 24.14 | -2.25 | 21.89 | 154.53 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 636166 | 1@36  | CP_64QAM   | 23.97 | -2.25 | 21.72 | 148.59 | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 636166 | 38@0  | CP_256QAM  | 21.15 | -2.25 | 18.9  | 77.62  | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 636166 | 19@9  | CP_256QAM  | 21.17 | -2.25 | 18.92 | 77.98  | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 636166 | 1@1   | CP_256QAM  | 21.1  | -2.25 | 18.85 | 76.74  | 1000 | PASS |
| DC_4A_n78A | 30 | 15 | 636166 | 1@36  | CP_256QAM  | 20.95 | -2.25 | 18.7  | 74.13  | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 630668 | 50@0  | DFT_BPSK   | 27.52 | -2.25 | 25.27 | 336.51 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 630668 | 25@12 | DFT_BPSK   | 28.01 | -2.25 | 25.76 | 376.7  | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 630668 | 1@1   | DFT_BPSK   | 27.94 | -2.25 | 25.69 | 370.68 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 630668 | 1@49  | DFT_BPSK   | 27.8  | -2.25 | 25.55 | 358.92 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 630668 | 50@0  | DFT_QPSK   | 27.06 | -2.25 | 24.81 | 302.69 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 630668 | 25@12 | DFT_QPSK   | 28.03 | -2.25 | 25.78 | 378.44 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 630668 | 1@1   | DFT_QPSK   | 27.96 | -2.25 | 25.71 | 372.39 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 630668 | 1@49  | DFT_QPSK   | 27.84 | -2.25 | 25.59 | 362.24 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 630668 | 50@0  | DFT_16QAM  | 26.04 | -2.25 | 23.79 | 239.33 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 630668 | 25@12 | DFT_16QAM  | 26.97 | -2.25 | 24.72 | 296.48 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 630668 | 1@1   | DFT_16QAM  | 26.88 | -2.25 | 24.63 | 290.4  | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 630668 | 1@49  | DFT_16QAM  | 26.77 | -2.25 | 24.52 | 283.14 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 630668 | 50@0  | DFT_64QAM  | 25.54 | -2.25 | 23.29 | 213.3  | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 630668 | 25@12 | DFT_64QAM  | 25.52 | -2.25 | 23.27 | 212.32 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 630668 | 1@1   | DFT_64QAM  | 25.39 | -2.25 | 23.14 | 206.06 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 630668 | 1@49  | DFT_64QAM  | 25.23 | -2.25 | 22.98 | 198.61 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 630668 | 50@0  | DFT_256QAM | 23.55 | -2.25 | 21.3  | 134.9  | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 630668 | 25@12 | DFT_256QAM | 23.46 | -2.25 | 21.21 | 132.13 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 630668 | 1@1   | DFT_256QAM | 23.34 | -2.25 | 21.09 | 128.53 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 630668 | 1@49  | DFT_256QAM | 23.2  | -2.25 | 20.95 | 124.45 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 630668 | 51@0  | CP_QPSK    | 25    | -2.25 | 22.75 | 188.36 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 630668 | 25@12 | CP_QPSK    | 26.53 | -2.25 | 24.28 | 267.92 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 630668 | 1@1   | CP_QPSK    | 26.57 | -2.25 | 24.32 | 270.4  | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 630668 | 1@49  | CP_QPSK    | 26.46 | -2.25 | 24.21 | 263.63 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 630668 | 51@0  | CP_16QAM   | 24.99 | -2.25 | 22.74 | 187.93 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 630668 | 25@12 | CP_16QAM   | 26    | -2.25 | 23.75 | 237.14 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 630668 | 1@1   | CP_16QAM   | 26.05 | -2.25 | 23.8  | 239.88 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 630668 | 1@49  | CP_16QAM   | 25.89 | -2.25 | 23.64 | 231.21 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 630668 | 51@0  | CP_64QAM   | 24.52 | -2.25 | 22.27 | 168.66 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 630668 | 25@12 | CP_64QAM   | 24.48 | -2.25 | 22.23 | 167.11 | 1000 | PASS |



|            |    |    |        |       |            |       |       |       |        |      |      |
|------------|----|----|--------|-------|------------|-------|-------|-------|--------|------|------|
| DC_4A_n78A | 30 | 20 | 630668 | 1@1   | CP_64QAM   | 24.53 | -2.25 | 22.28 | 169.04 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 630668 | 1@49  | CP_64QAM   | 24.41 | -2.25 | 22.16 | 164.44 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 630668 | 51@0  | CP_256QAM  | 21.47 | -2.25 | 19.22 | 83.56  | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 630668 | 25@12 | CP_256QAM  | 21.45 | -2.25 | 19.2  | 83.18  | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 630668 | 1@1   | CP_256QAM  | 21.34 | -2.25 | 19.09 | 81.1   | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 630668 | 1@49  | CP_256QAM  | 21.2  | -2.25 | 18.95 | 78.52  | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 633334 | 50@0  | DFT_BPSK   | 27.3  | -2.25 | 25.05 | 319.89 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 633334 | 25@12 | DFT_BPSK   | 27.85 | -2.25 | 25.6  | 363.08 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 633334 | 1@1   | DFT_BPSK   | 27.77 | -2.25 | 25.52 | 356.45 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 633334 | 1@49  | DFT_BPSK   | 27.56 | -2.25 | 25.31 | 339.63 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 633334 | 50@0  | DFT_QPSK   | 26.82 | -2.25 | 24.57 | 286.42 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 633334 | 25@12 | DFT_QPSK   | 27.85 | -2.25 | 25.6  | 363.08 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 633334 | 1@1   | DFT_QPSK   | 27.8  | -2.25 | 25.55 | 358.92 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 633334 | 1@49  | DFT_QPSK   | 27.59 | -2.25 | 25.34 | 341.98 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 633334 | 50@0  | DFT_16QAM  | 25.83 | -2.25 | 23.58 | 228.03 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 633334 | 25@12 | DFT_16QAM  | 26.8  | -2.25 | 24.55 | 285.1  | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 633334 | 1@1   | DFT_16QAM  | 26.72 | -2.25 | 24.47 | 279.9  | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 633334 | 1@49  | DFT_16QAM  | 26.52 | -2.25 | 24.27 | 267.3  | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 633334 | 50@0  | DFT_64QAM  | 25.31 | -2.25 | 23.06 | 202.3  | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 633334 | 25@12 | DFT_64QAM  | 25.37 | -2.25 | 23.12 | 205.12 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 633334 | 1@1   | DFT_64QAM  | 25.2  | -2.25 | 22.95 | 197.24 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 633334 | 1@49  | DFT_64QAM  | 24.98 | -2.25 | 22.73 | 187.5  | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 633334 | 50@0  | DFT_256QAM | 23.33 | -2.25 | 21.08 | 128.23 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 633334 | 25@12 | DFT_256QAM | 23.29 | -2.25 | 21.04 | 127.06 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 633334 | 1@1   | DFT_256QAM | 23.16 | -2.25 | 20.91 | 123.31 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 633334 | 1@49  | DFT_256QAM | 22.95 | -2.25 | 20.7  | 117.49 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 633334 | 51@0  | CP_QPSK    | 24.79 | -2.25 | 22.54 | 179.47 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 633334 | 25@12 | CP_QPSK    | 26.38 | -2.25 | 24.13 | 258.82 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 633334 | 1@1   | CP_QPSK    | 26.44 | -2.25 | 24.19 | 262.42 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 633334 | 1@49  | CP_QPSK    | 26.2  | -2.25 | 23.95 | 248.31 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 633334 | 51@0  | CP_16QAM   | 24.79 | -2.25 | 22.54 | 179.47 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 633334 | 25@12 | CP_16QAM   | 25.84 | -2.25 | 23.59 | 228.56 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 633334 | 1@1   | CP_16QAM   | 25.89 | -2.25 | 23.64 | 231.21 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 633334 | 1@49  | CP_16QAM   | 25.66 | -2.25 | 23.41 | 219.28 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 633334 | 51@0  | CP_64QAM   | 24.31 | -2.25 | 22.06 | 160.69 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 633334 | 25@12 | CP_64QAM   | 24.32 | -2.25 | 22.07 | 161.06 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 633334 | 1@1   | CP_64QAM   | 24.35 | -2.25 | 22.1  | 162.18 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 633334 | 1@49  | CP_64QAM   | 24.15 | -2.25 | 21.9  | 154.88 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 633334 | 51@0  | CP_256QAM  | 21.21 | -2.25 | 18.96 | 78.7   | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 633334 | 25@12 | CP_256QAM  | 21.23 | -2.25 | 18.98 | 79.07  | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 633334 | 1@1   | CP_256QAM  | 21.22 | -2.25 | 18.97 | 78.89  | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 633334 | 1@49  | CP_256QAM  | 21    | -2.25 | 18.75 | 74.99  | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 636000 | 50@0  | DFT_BPSK   | 27.06 | -2.25 | 24.81 | 302.69 | 1000 | PASS |

|            |    |    |        |       |            |       |       |       |        |      |      |
|------------|----|----|--------|-------|------------|-------|-------|-------|--------|------|------|
| DC_4A_n78A | 30 | 20 | 636000 | 25@12 | DFT_BPSK   | 27.65 | -2.25 | 25.4  | 346.74 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 636000 | 1@1   | DFT_BPSK   | 27.57 | -2.25 | 25.32 | 340.41 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 636000 | 1@49  | DFT_BPSK   | 27.32 | -2.25 | 25.07 | 321.37 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 636000 | 50@0  | DFT_QPSK   | 26.64 | -2.25 | 24.39 | 274.79 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 636000 | 25@12 | DFT_QPSK   | 27.64 | -2.25 | 25.39 | 345.94 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 636000 | 1@1   | DFT_QPSK   | 27.59 | -2.25 | 25.34 | 341.98 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 636000 | 1@49  | DFT_QPSK   | 27.39 | -2.25 | 25.14 | 326.59 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 636000 | 50@0  | DFT_16QAM  | 25.6  | -2.25 | 23.35 | 216.27 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 636000 | 25@12 | DFT_16QAM  | 26.59 | -2.25 | 24.34 | 271.64 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 636000 | 1@1   | DFT_16QAM  | 26.49 | -2.25 | 24.24 | 265.46 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 636000 | 1@49  | DFT_16QAM  | 26.16 | -2.25 | 23.91 | 246.04 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 636000 | 50@0  | DFT_64QAM  | 25.08 | -2.25 | 22.83 | 191.87 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 636000 | 25@12 | DFT_64QAM  | 25.12 | -2.25 | 22.87 | 193.64 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 636000 | 1@1   | DFT_64QAM  | 25.14 | -2.25 | 22.89 | 194.54 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 636000 | 1@49  | DFT_64QAM  | 24.89 | -2.25 | 22.64 | 183.65 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 636000 | 50@0  | DFT_256QAM | 23.08 | -2.25 | 20.83 | 121.06 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 636000 | 25@12 | DFT_256QAM | 23.1  | -2.25 | 20.85 | 121.62 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 636000 | 1@1   | DFT_256QAM | 23.06 | -2.25 | 20.81 | 120.5  | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 636000 | 1@49  | DFT_256QAM | 22.84 | -2.25 | 20.59 | 114.55 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 636000 | 51@0  | CP_QPSK    | 24.56 | -2.25 | 22.31 | 170.22 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 636000 | 25@12 | CP_QPSK    | 26.1  | -2.25 | 23.85 | 242.66 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 636000 | 1@1   | CP_QPSK    | 26.15 | -2.25 | 23.9  | 245.47 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 636000 | 1@49  | CP_QPSK    | 25.89 | -2.25 | 23.64 | 231.21 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 636000 | 51@0  | CP_16QAM   | 24.57 | -2.25 | 22.32 | 170.61 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 636000 | 25@12 | CP_16QAM   | 25.65 | -2.25 | 23.4  | 218.78 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 636000 | 1@1   | CP_16QAM   | 25.43 | -2.25 | 23.18 | 207.97 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 636000 | 1@49  | CP_16QAM   | 25.23 | -2.25 | 22.98 | 198.61 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 636000 | 51@0  | CP_64QAM   | 24.12 | -2.25 | 21.87 | 153.82 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 636000 | 25@12 | CP_64QAM   | 24.09 | -2.25 | 21.84 | 152.76 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 636000 | 1@1   | CP_64QAM   | 24.08 | -2.25 | 21.83 | 152.41 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 636000 | 1@49  | CP_64QAM   | 23.81 | -2.25 | 21.56 | 143.22 | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 636000 | 51@0  | CP_256QAM  | 21.11 | -2.25 | 18.86 | 76.91  | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 636000 | 25@12 | CP_256QAM  | 21.15 | -2.25 | 18.9  | 77.62  | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 636000 | 1@1   | CP_256QAM  | 21.3  | -2.25 | 19.05 | 80.35  | 1000 | PASS |
| DC_4A_n78A | 30 | 20 | 636000 | 1@49  | CP_256QAM  | 21.03 | -2.25 | 18.78 | 75.51  | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 631334 | 100@0 | DFT_BPSK   | 27.4  | -2.25 | 25.15 | 327.34 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 631334 | 50@25 | DFT_BPSK   | 28    | -2.25 | 25.75 | 375.84 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 631334 | 1@1   | DFT_BPSK   | 27.53 | -2.25 | 25.28 | 337.29 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 631334 | 1@104 | DFT_BPSK   | 27.36 | -2.25 | 25.11 | 324.34 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 631334 | 100@0 | DFT_QPSK   | 26.93 | -2.25 | 24.68 | 293.76 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 631334 | 50@25 | DFT_QPSK   | 27.95 | -2.25 | 25.7  | 371.54 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 631334 | 1@1   | DFT_QPSK   | 27.58 | -2.25 | 25.33 | 341.19 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 631334 | 1@104 | DFT_QPSK   | 27.37 | -2.25 | 25.12 | 325.09 | 1000 | PASS |

|            |    |    |        |       |            |       |       |       |        |      |      |
|------------|----|----|--------|-------|------------|-------|-------|-------|--------|------|------|
| DC_4A_n78A | 30 | 40 | 631334 | 100@0 | DFT_16QAM  | 25.94 | -2.25 | 23.69 | 233.88 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 631334 | 50@25 | DFT_16QAM  | 26.99 | -2.25 | 24.74 | 297.85 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 631334 | 1@1   | DFT_16QAM  | 26.51 | -2.25 | 24.26 | 266.69 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 631334 | 1@104 | DFT_16QAM  | 26.31 | -2.25 | 24.06 | 254.68 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 631334 | 100@0 | DFT_64QAM  | 25.41 | -2.25 | 23.16 | 207.01 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 631334 | 50@25 | DFT_64QAM  | 25.51 | -2.25 | 23.26 | 211.84 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 631334 | 1@1   | DFT_64QAM  | 24.95 | -2.25 | 22.7  | 186.21 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 631334 | 1@104 | DFT_64QAM  | 24.78 | -2.25 | 22.53 | 179.06 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 631334 | 100@0 | DFT_256QAM | 23.37 | -2.25 | 21.12 | 129.42 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 631334 | 50@25 | DFT_256QAM | 23.48 | -2.25 | 21.23 | 132.74 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 631334 | 1@1   | DFT_256QAM | 23.02 | -2.25 | 20.77 | 119.4  | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 631334 | 1@104 | DFT_256QAM | 22.83 | -2.25 | 20.58 | 114.29 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 631334 | 106@0 | CP_QPSK    | 24.88 | -2.25 | 22.63 | 183.23 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 631334 | 53@26 | CP_QPSK    | 26.48 | -2.25 | 24.23 | 264.85 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 631334 | 1@1   | CP_QPSK    | 26.21 | -2.25 | 23.96 | 248.89 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 631334 | 1@104 | CP_QPSK    | 25.97 | -2.25 | 23.72 | 235.5  | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 631334 | 106@0 | CP_16QAM   | 24.88 | -2.25 | 22.63 | 183.23 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 631334 | 53@26 | CP_16QAM   | 25.96 | -2.25 | 23.71 | 234.96 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 631334 | 1@1   | CP_16QAM   | 25.64 | -2.25 | 23.39 | 218.27 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 631334 | 1@104 | CP_16QAM   | 25.49 | -2.25 | 23.24 | 210.86 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 631334 | 106@0 | CP_64QAM   | 24.37 | -2.25 | 22.12 | 162.93 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 631334 | 53@26 | CP_64QAM   | 24.48 | -2.25 | 22.23 | 167.11 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 631334 | 1@1   | CP_64QAM   | 24.13 | -2.25 | 21.88 | 154.17 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 631334 | 1@104 | CP_64QAM   | 23.98 | -2.25 | 21.73 | 148.94 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 631334 | 106@0 | CP_256QAM  | 21.31 | -2.25 | 19.06 | 80.54  | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 631334 | 53@26 | CP_256QAM  | 21.43 | -2.25 | 19.18 | 82.79  | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 631334 | 1@1   | CP_256QAM  | 21.01 | -2.25 | 18.76 | 75.16  | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 631334 | 1@104 | CP_256QAM  | 20.84 | -2.25 | 18.59 | 72.28  | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 633334 | 100@0 | DFT_BPSK   | 27.21 | -2.25 | 24.96 | 313.33 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 633334 | 50@25 | DFT_BPSK   | 27.78 | -2.25 | 25.53 | 357.27 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 633334 | 1@1   | DFT_BPSK   | 27.47 | -2.25 | 25.22 | 332.66 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 633334 | 1@104 | DFT_BPSK   | 27.07 | -2.25 | 24.82 | 303.39 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 633334 | 100@0 | DFT_QPSK   | 26.75 | -2.25 | 24.5  | 281.84 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 633334 | 50@25 | DFT_QPSK   | 27.8  | -2.25 | 25.55 | 358.92 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 633334 | 1@1   | DFT_QPSK   | 27.52 | -2.25 | 25.27 | 336.51 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 633334 | 1@104 | DFT_QPSK   | 27.05 | -2.25 | 24.8  | 302    | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 633334 | 100@0 | DFT_16QAM  | 25.76 | -2.25 | 23.51 | 224.39 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 633334 | 50@25 | DFT_16QAM  | 26.76 | -2.25 | 24.51 | 282.49 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 633334 | 1@1   | DFT_16QAM  | 26.41 | -2.25 | 24.16 | 260.62 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 633334 | 1@104 | DFT_16QAM  | 25.94 | -2.25 | 23.69 | 233.88 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 633334 | 100@0 | DFT_64QAM  | 25.2  | -2.25 | 22.95 | 197.24 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 633334 | 50@25 | DFT_64QAM  | 25.3  | -2.25 | 23.05 | 201.84 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 633334 | 1@1   | DFT_64QAM  | 24.91 | -2.25 | 22.66 | 184.5  | 1000 | PASS |

|            |    |    |        |       |            |       |       |       |        |      |      |
|------------|----|----|--------|-------|------------|-------|-------|-------|--------|------|------|
| DC_4A_n78A | 30 | 40 | 633334 | 1@104 | DFT_64QAM  | 24.48 | -2.25 | 22.23 | 167.11 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 633334 | 100@0 | DFT_256QAM | 23.23 | -2.25 | 20.98 | 125.31 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 633334 | 50@25 | DFT_256QAM | 23.27 | -2.25 | 21.02 | 126.47 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 633334 | 1@1   | DFT_256QAM | 22.94 | -2.25 | 20.69 | 117.22 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 633334 | 1@104 | DFT_256QAM | 22.52 | -2.25 | 20.27 | 106.41 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 633334 | 106@0 | CP_QPSK    | 24.67 | -2.25 | 22.42 | 174.58 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 633334 | 53@26 | CP_QPSK    | 26.28 | -2.25 | 24.03 | 252.93 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 633334 | 1@1   | CP_QPSK    | 26.15 | -2.25 | 23.9  | 245.47 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 633334 | 1@104 | CP_QPSK    | 25.69 | -2.25 | 23.44 | 220.8  | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 633334 | 106@0 | CP_16QAM   | 24.64 | -2.25 | 22.39 | 173.38 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 633334 | 53@26 | CP_16QAM   | 25.75 | -2.25 | 23.5  | 223.87 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 633334 | 1@1   | CP_16QAM   | 25.66 | -2.25 | 23.41 | 219.28 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 633334 | 1@104 | CP_16QAM   | 25.24 | -2.25 | 22.99 | 199.07 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 633334 | 106@0 | CP_64QAM   | 24.16 | -2.25 | 21.91 | 155.24 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 633334 | 53@26 | CP_64QAM   | 24.28 | -2.25 | 22.03 | 159.59 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 633334 | 1@1   | CP_64QAM   | 24.11 | -2.25 | 21.86 | 153.46 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 633334 | 1@104 | CP_64QAM   | 23.65 | -2.25 | 21.4  | 138.04 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 633334 | 106@0 | CP_256QAM  | 21.24 | -2.25 | 18.99 | 79.25  | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 633334 | 53@26 | CP_256QAM  | 21.32 | -2.25 | 19.07 | 80.72  | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 633334 | 1@1   | CP_256QAM  | 20.96 | -2.25 | 18.71 | 74.3   | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 633334 | 1@104 | CP_256QAM  | 20.64 | -2.25 | 18.39 | 69.02  | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 635332 | 100@0 | DFT_BPSK   | 26.89 | -2.25 | 24.64 | 291.07 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 635332 | 50@25 | DFT_BPSK   | 27.53 | -2.25 | 25.28 | 337.29 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 635332 | 1@1   | DFT_BPSK   | 27.17 | -2.25 | 24.92 | 310.46 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 635332 | 1@104 | DFT_BPSK   | 26.71 | -2.25 | 24.46 | 279.25 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 635332 | 100@0 | DFT_QPSK   | 26.43 | -2.25 | 24.18 | 261.82 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 635332 | 50@25 | DFT_QPSK   | 27.56 | -2.25 | 25.31 | 339.63 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 635332 | 1@1   | DFT_QPSK   | 27.17 | -2.25 | 24.92 | 310.46 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 635332 | 1@104 | DFT_QPSK   | 26.7  | -2.25 | 24.45 | 278.61 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 635332 | 100@0 | DFT_16QAM  | 25.42 | -2.25 | 23.17 | 207.49 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 635332 | 50@25 | DFT_16QAM  | 26.52 | -2.25 | 24.27 | 267.3  | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 635332 | 1@1   | DFT_16QAM  | 26.11 | -2.25 | 23.86 | 243.22 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 635332 | 1@104 | DFT_16QAM  | 25.65 | -2.25 | 23.4  | 218.78 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 635332 | 100@0 | DFT_64QAM  | 24.88 | -2.25 | 22.63 | 183.23 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 635332 | 50@25 | DFT_64QAM  | 25.03 | -2.25 | 22.78 | 189.67 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 635332 | 1@1   | DFT_64QAM  | 24.6  | -2.25 | 22.35 | 171.79 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 635332 | 1@104 | DFT_64QAM  | 24.13 | -2.25 | 21.88 | 154.17 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 635332 | 100@0 | DFT_256QAM | 22.91 | -2.25 | 20.66 | 116.41 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 635332 | 50@25 | DFT_256QAM | 23.01 | -2.25 | 20.76 | 119.12 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 635332 | 1@1   | DFT_256QAM | 22.63 | -2.25 | 20.38 | 109.14 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 635332 | 1@104 | DFT_256QAM | 22.2  | -2.25 | 19.95 | 98.86  | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 635332 | 106@0 | CP_QPSK    | 24.34 | -2.25 | 22.09 | 161.81 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 635332 | 53@26 | CP_QPSK    | 25.99 | -2.25 | 23.74 | 236.59 | 1000 | PASS |

|            |    |    |        |       |            |       |       |       |        |      |      |
|------------|----|----|--------|-------|------------|-------|-------|-------|--------|------|------|
| DC_4A_n78A | 30 | 40 | 635332 | 1@1   | CP_QPSK    | 25.76 | -2.25 | 23.51 | 224.39 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 635332 | 1@104 | CP_QPSK    | 25.37 | -2.25 | 23.12 | 205.12 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 635332 | 106@0 | CP_16QAM   | 24.35 | -2.25 | 22.1  | 162.18 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 635332 | 53@26 | CP_16QAM   | 25.46 | -2.25 | 23.21 | 209.41 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 635332 | 1@1   | CP_16QAM   | 25.31 | -2.25 | 23.06 | 202.3  | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 635332 | 1@104 | CP_16QAM   | 24.83 | -2.25 | 22.58 | 181.13 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 635332 | 106@0 | CP_64QAM   | 23.81 | -2.25 | 21.56 | 143.22 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 635332 | 53@26 | CP_64QAM   | 23.98 | -2.25 | 21.73 | 148.94 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 635332 | 1@1   | CP_64QAM   | 23.8  | -2.25 | 21.55 | 142.89 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 635332 | 1@104 | CP_64QAM   | 23.31 | -2.25 | 21.06 | 127.64 | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 635332 | 106@0 | CP_256QAM  | 20.95 | -2.25 | 18.7  | 74.13  | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 635332 | 53@26 | CP_256QAM  | 21.05 | -2.25 | 18.8  | 75.86  | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 635332 | 1@1   | CP_256QAM  | 20.73 | -2.25 | 18.48 | 70.47  | 1000 | PASS |
| DC_4A_n78A | 30 | 40 | 635332 | 1@104 | CP_256QAM  | 20.28 | -2.25 | 18.03 | 63.53  | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 631668 | 128@0 | DFT_BPSK   | 27.36 | -2.25 | 25.11 | 324.34 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 631668 | 64@32 | DFT_BPSK   | 27.97 | -2.25 | 25.72 | 373.25 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 631668 | 1@1   | DFT_BPSK   | 27.72 | -2.25 | 25.47 | 352.37 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 631668 | 1@131 | DFT_BPSK   | 27.42 | -2.25 | 25.17 | 328.85 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 631668 | 128@0 | DFT_QPSK   | 26.89 | -2.25 | 24.64 | 291.07 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 631668 | 64@32 | DFT_QPSK   | 27.96 | -2.25 | 25.71 | 372.39 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 631668 | 1@1   | DFT_QPSK   | 27.76 | -2.25 | 25.51 | 355.63 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 631668 | 1@131 | DFT_QPSK   | 27.42 | -2.25 | 25.17 | 328.85 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 631668 | 128@0 | DFT_16QAM  | 25.88 | -2.25 | 23.63 | 230.67 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 631668 | 64@32 | DFT_16QAM  | 26.98 | -2.25 | 24.73 | 297.17 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 631668 | 1@1   | DFT_16QAM  | 26.62 | -2.25 | 24.37 | 273.53 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 631668 | 1@131 | DFT_16QAM  | 26.36 | -2.25 | 24.11 | 257.63 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 631668 | 128@0 | DFT_64QAM  | 25.39 | -2.25 | 23.14 | 206.06 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 631668 | 64@32 | DFT_64QAM  | 25.49 | -2.25 | 23.24 | 210.86 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 631668 | 1@1   | DFT_64QAM  | 25.15 | -2.25 | 22.9  | 194.98 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 631668 | 1@131 | DFT_64QAM  | 24.85 | -2.25 | 22.6  | 181.97 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 631668 | 128@0 | DFT_256QAM | 23.39 | -2.25 | 21.14 | 130.02 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 631668 | 64@32 | DFT_256QAM | 23.47 | -2.25 | 21.22 | 132.43 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 631668 | 1@1   | DFT_256QAM | 23.14 | -2.25 | 20.89 | 122.74 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 631668 | 1@131 | DFT_256QAM | 22.86 | -2.25 | 20.61 | 115.08 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 631668 | 133@0 | CP_QPSK    | 24.87 | -2.25 | 22.62 | 182.81 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 631668 | 67@33 | CP_QPSK    | 26.48 | -2.25 | 24.23 | 264.85 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 631668 | 1@1   | CP_QPSK    | 26.3  | -2.25 | 24.05 | 254.1  | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 631668 | 1@131 | CP_QPSK    | 26.02 | -2.25 | 23.77 | 238.23 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 631668 | 133@0 | CP_16QAM   | 24.87 | -2.25 | 22.62 | 182.81 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 631668 | 67@33 | CP_16QAM   | 26    | -2.25 | 23.75 | 237.14 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 631668 | 1@1   | CP_16QAM   | 25.57 | -2.25 | 23.32 | 214.78 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 631668 | 1@131 | CP_16QAM   | 25.32 | -2.25 | 23.07 | 202.77 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 631668 | 133@0 | CP_64QAM   | 24.33 | -2.25 | 22.08 | 161.44 | 1000 | PASS |



|            |    |    |        |       |            |       |       |       |        |      |      |
|------------|----|----|--------|-------|------------|-------|-------|-------|--------|------|------|
| DC_4A_n78A | 30 | 50 | 631668 | 67@33 | CP_64QAM   | 24.46 | -2.25 | 22.21 | 166.34 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 631668 | 1@1   | CP_64QAM   | 24.18 | -2.25 | 21.93 | 155.96 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 631668 | 1@131 | CP_64QAM   | 23.88 | -2.25 | 21.63 | 145.55 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 631668 | 133@0 | CP_256QAM  | 21.36 | -2.25 | 19.11 | 81.47  | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 631668 | 67@33 | CP_256QAM  | 21.4  | -2.25 | 19.15 | 82.22  | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 631668 | 1@1   | CP_256QAM  | 21.33 | -2.25 | 19.08 | 80.91  | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 631668 | 1@131 | CP_256QAM  | 21.19 | -2.25 | 18.94 | 78.34  | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 633334 | 128@0 | DFT_BPSK   | 27.24 | -2.25 | 24.99 | 315.5  | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 633334 | 64@32 | DFT_BPSK   | 27.81 | -2.25 | 25.56 | 359.75 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 633334 | 1@1   | DFT_BPSK   | 27.8  | -2.25 | 25.55 | 358.92 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 633334 | 1@131 | DFT_BPSK   | 27.32 | -2.25 | 25.07 | 321.37 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 633334 | 128@0 | DFT_QPSK   | 26.74 | -2.25 | 24.49 | 281.19 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 633334 | 64@32 | DFT_QPSK   | 27.85 | -2.25 | 25.6  | 363.08 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 633334 | 1@1   | DFT_QPSK   | 27.86 | -2.25 | 25.61 | 363.92 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 633334 | 1@131 | DFT_QPSK   | 27.32 | -2.25 | 25.07 | 321.37 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 633334 | 128@0 | DFT_16QAM  | 25.77 | -2.25 | 23.52 | 224.91 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 633334 | 64@32 | DFT_16QAM  | 26.85 | -2.25 | 24.6  | 288.4  | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 633334 | 1@1   | DFT_16QAM  | 26.63 | -2.25 | 24.38 | 274.16 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 633334 | 1@131 | DFT_16QAM  | 26.16 | -2.25 | 23.91 | 246.04 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 633334 | 128@0 | DFT_64QAM  | 25.25 | -2.25 | 23    | 199.53 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 633334 | 64@32 | DFT_64QAM  | 25.34 | -2.25 | 23.09 | 203.7  | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 633334 | 1@1   | DFT_64QAM  | 25.29 | -2.25 | 23.04 | 201.37 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 633334 | 1@131 | DFT_64QAM  | 24.69 | -2.25 | 22.44 | 175.39 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 633334 | 128@0 | DFT_256QAM | 23.24 | -2.25 | 20.99 | 125.6  | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 633334 | 64@32 | DFT_256QAM | 23.31 | -2.25 | 21.06 | 127.64 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 633334 | 1@1   | DFT_256QAM | 23.21 | -2.25 | 20.96 | 124.74 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 633334 | 1@131 | DFT_256QAM | 22.71 | -2.25 | 20.46 | 111.17 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 633334 | 133@0 | CP_QPSK    | 24.72 | -2.25 | 22.47 | 176.6  | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 633334 | 67@33 | CP_QPSK    | 26.27 | -2.25 | 24.02 | 252.35 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 633334 | 1@1   | CP_QPSK    | 26.41 | -2.25 | 24.16 | 260.62 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 633334 | 1@131 | CP_QPSK    | 25.89 | -2.25 | 23.64 | 231.21 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 633334 | 133@0 | CP_16QAM   | 24.72 | -2.25 | 22.47 | 176.6  | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 633334 | 67@33 | CP_16QAM   | 25.81 | -2.25 | 23.56 | 226.99 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 633334 | 1@1   | CP_16QAM   | 25.89 | -2.25 | 23.64 | 231.21 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 633334 | 1@131 | CP_16QAM   | 25.38 | -2.25 | 23.13 | 205.59 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 633334 | 133@0 | CP_64QAM   | 24.22 | -2.25 | 21.97 | 157.4  | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 633334 | 67@33 | CP_64QAM   | 24.27 | -2.25 | 22.02 | 159.22 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 633334 | 1@1   | CP_64QAM   | 24.34 | -2.25 | 22.09 | 161.81 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 633334 | 1@131 | CP_64QAM   | 23.82 | -2.25 | 21.57 | 143.55 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 633334 | 133@0 | CP_256QAM  | 21.3  | -2.25 | 19.05 | 80.35  | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 633334 | 67@33 | CP_256QAM  | 21.34 | -2.25 | 19.09 | 81.1   | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 633334 | 1@1   | CP_256QAM  | 21.23 | -2.25 | 18.98 | 79.07  | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 633334 | 1@131 | CP_256QAM  | 20.89 | -2.25 | 18.64 | 73.11  | 1000 | PASS |

|            |    |    |        |       |            |       |       |       |        |      |      |
|------------|----|----|--------|-------|------------|-------|-------|-------|--------|------|------|
| DC_4A_n78A | 30 | 50 | 635000 | 128@0 | DFT_BPSK   | 26.96 | -2.25 | 24.71 | 295.8  | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 635000 | 64@32 | DFT_BPSK   | 27.55 | -2.25 | 25.3  | 338.84 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 635000 | 1@1   | DFT_BPSK   | 27.47 | -2.25 | 25.22 | 332.66 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 635000 | 1@131 | DFT_BPSK   | 26.95 | -2.25 | 24.7  | 295.12 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 635000 | 128@0 | DFT_QPSK   | 26.47 | -2.25 | 24.22 | 264.24 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 635000 | 64@32 | DFT_QPSK   | 27.59 | -2.25 | 25.34 | 341.98 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 635000 | 1@1   | DFT_QPSK   | 27.51 | -2.25 | 25.26 | 335.74 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 635000 | 1@131 | DFT_QPSK   | 26.96 | -2.25 | 24.71 | 295.8  | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 635000 | 128@0 | DFT_16QAM  | 25.51 | -2.25 | 23.26 | 211.84 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 635000 | 64@32 | DFT_16QAM  | 26.63 | -2.25 | 24.38 | 274.16 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 635000 | 1@1   | DFT_16QAM  | 26.42 | -2.25 | 24.17 | 261.22 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 635000 | 1@131 | DFT_16QAM  | 25.89 | -2.25 | 23.64 | 231.21 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 635000 | 128@0 | DFT_64QAM  | 24.99 | -2.25 | 22.74 | 187.93 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 635000 | 64@32 | DFT_64QAM  | 25.08 | -2.25 | 22.83 | 191.87 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 635000 | 1@1   | DFT_64QAM  | 24.9  | -2.25 | 22.65 | 184.08 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 635000 | 1@131 | DFT_64QAM  | 24.38 | -2.25 | 22.13 | 163.31 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 635000 | 128@0 | DFT_256QAM | 22.99 | -2.25 | 20.74 | 118.58 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 635000 | 64@32 | DFT_256QAM | 23.1  | -2.25 | 20.85 | 121.62 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 635000 | 1@1   | DFT_256QAM | 22.91 | -2.25 | 20.66 | 116.41 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 635000 | 1@131 | DFT_256QAM | 22.39 | -2.25 | 20.14 | 103.28 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 635000 | 133@0 | CP_QPSK    | 24.46 | -2.25 | 22.21 | 166.34 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 635000 | 67@33 | CP_QPSK    | 26.02 | -2.25 | 23.77 | 238.23 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 635000 | 1@1   | CP_QPSK    | 26.11 | -2.25 | 23.86 | 243.22 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 635000 | 1@131 | CP_QPSK    | 25.56 | -2.25 | 23.31 | 214.29 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 635000 | 133@0 | CP_16QAM   | 24.47 | -2.25 | 22.22 | 166.72 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 635000 | 67@33 | CP_16QAM   | 25.53 | -2.25 | 23.28 | 212.81 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 635000 | 1@1   | CP_16QAM   | 25.64 | -2.25 | 23.39 | 218.27 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 635000 | 1@131 | CP_16QAM   | 25.08 | -2.25 | 22.83 | 191.87 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 635000 | 133@0 | CP_64QAM   | 23.95 | -2.25 | 21.7  | 147.91 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 635000 | 67@33 | CP_64QAM   | 24    | -2.25 | 21.75 | 149.62 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 635000 | 1@1   | CP_64QAM   | 24.08 | -2.25 | 21.83 | 152.41 | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 635000 | 1@131 | CP_64QAM   | 23.55 | -2.25 | 21.3  | 134.9  | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 635000 | 133@0 | CP_256QAM  | 21.07 | -2.25 | 18.82 | 76.21  | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 635000 | 67@33 | CP_256QAM  | 21.09 | -2.25 | 18.84 | 76.56  | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 635000 | 1@1   | CP_256QAM  | 21.08 | -2.25 | 18.83 | 76.38  | 1000 | PASS |
| DC_4A_n78A | 30 | 50 | 635000 | 1@131 | CP_256QAM  | 20.59 | -2.25 | 18.34 | 68.23  | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 632000 | 162@0 | DFT_BPSK   | 27.29 | -2.25 | 25.04 | 319.15 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 632000 | 81@40 | DFT_BPSK   | 27.93 | -2.25 | 25.68 | 369.83 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 632000 | 1@1   | DFT_BPSK   | 27.66 | -2.25 | 25.41 | 347.54 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 632000 | 1@160 | DFT_BPSK   | 27.14 | -2.25 | 24.89 | 308.32 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 632000 | 162@0 | DFT_QPSK   | 26.85 | -2.25 | 24.6  | 288.4  | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 632000 | 81@40 | DFT_QPSK   | 27.94 | -2.25 | 25.69 | 370.68 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 632000 | 1@1   | DFT_QPSK   | 27.68 | -2.25 | 25.43 | 349.14 | 1000 | PASS |

|            |    |    |        |       |            |       |       |       |        |      |      |
|------------|----|----|--------|-------|------------|-------|-------|-------|--------|------|------|
| DC_4A_n78A | 30 | 60 | 632000 | 1@160 | DFT_QPSK   | 27.21 | -2.25 | 24.96 | 313.33 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 632000 | 162@0 | DFT_16QAM  | 25.82 | -2.25 | 23.57 | 227.51 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 632000 | 81@40 | DFT_16QAM  | 27    | -2.25 | 24.75 | 298.54 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 632000 | 1@1   | DFT_16QAM  | 26.6  | -2.25 | 24.35 | 272.27 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 632000 | 1@160 | DFT_16QAM  | 26.08 | -2.25 | 23.83 | 241.55 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 632000 | 162@0 | DFT_64QAM  | 25.29 | -2.25 | 23.04 | 201.37 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 632000 | 81@40 | DFT_64QAM  | 25.44 | -2.25 | 23.19 | 208.45 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 632000 | 1@1   | DFT_64QAM  | 25.1  | -2.25 | 22.85 | 192.75 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 632000 | 1@160 | DFT_64QAM  | 24.6  | -2.25 | 22.35 | 171.79 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 632000 | 162@0 | DFT_256QAM | 23.28 | -2.25 | 21.03 | 126.77 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 632000 | 81@40 | DFT_256QAM | 23.45 | -2.25 | 21.2  | 131.83 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 632000 | 1@1   | DFT_256QAM | 23.09 | -2.25 | 20.84 | 121.34 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 632000 | 1@160 | DFT_256QAM | 22.61 | -2.25 | 20.36 | 108.64 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 632000 | 162@0 | CP_QPSK    | 24.74 | -2.25 | 22.49 | 177.42 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 632000 | 81@40 | CP_QPSK    | 26.42 | -2.25 | 24.17 | 261.22 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 632000 | 1@1   | CP_QPSK    | 26.32 | -2.25 | 24.07 | 255.27 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 632000 | 1@160 | CP_QPSK    | 25.78 | -2.25 | 23.53 | 225.42 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 632000 | 162@0 | CP_16QAM   | 24.8  | -2.25 | 22.55 | 179.89 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 632000 | 81@40 | CP_16QAM   | 25.93 | -2.25 | 23.68 | 233.35 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 632000 | 1@1   | CP_16QAM   | 25.76 | -2.25 | 23.51 | 224.39 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 632000 | 1@160 | CP_16QAM   | 25.24 | -2.25 | 22.99 | 199.07 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 632000 | 162@0 | CP_64QAM   | 24.29 | -2.25 | 22.04 | 159.96 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 632000 | 81@40 | CP_64QAM   | 24.42 | -2.25 | 22.17 | 164.82 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 632000 | 1@1   | CP_64QAM   | 24.2  | -2.25 | 21.95 | 156.68 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 632000 | 1@160 | CP_64QAM   | 23.74 | -2.25 | 21.49 | 140.93 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 632000 | 162@0 | CP_256QAM  | 21.27 | -2.25 | 19.02 | 79.8   | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 632000 | 81@40 | CP_256QAM  | 21.39 | -2.25 | 19.14 | 82.04  | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 632000 | 1@1   | CP_256QAM  | 21.12 | -2.25 | 18.87 | 77.09  | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 632000 | 1@160 | CP_256QAM  | 20.74 | -2.25 | 18.49 | 70.63  | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 633334 | 162@0 | DFT_BPSK   | 27.2  | -2.25 | 24.95 | 312.61 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 633334 | 81@40 | DFT_BPSK   | 27.83 | -2.25 | 25.58 | 361.41 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 633334 | 1@1   | DFT_BPSK   | 27.6  | -2.25 | 25.35 | 342.77 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 633334 | 1@160 | DFT_BPSK   | 27.09 | -2.25 | 24.84 | 304.79 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 633334 | 162@0 | DFT_QPSK   | 26.7  | -2.25 | 24.45 | 278.61 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 633334 | 81@40 | DFT_QPSK   | 27.78 | -2.25 | 25.53 | 357.27 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 633334 | 1@1   | DFT_QPSK   | 27.68 | -2.25 | 25.43 | 349.14 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 633334 | 1@160 | DFT_QPSK   | 27.06 | -2.25 | 24.81 | 302.69 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 633334 | 162@0 | DFT_16QAM  | 25.7  | -2.25 | 23.45 | 221.31 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 633334 | 81@40 | DFT_16QAM  | 26.81 | -2.25 | 24.56 | 285.76 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 633334 | 1@1   | DFT_16QAM  | 26.58 | -2.25 | 24.33 | 271.02 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 633334 | 1@160 | DFT_16QAM  | 25.97 | -2.25 | 23.72 | 235.5  | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 633334 | 162@0 | DFT_64QAM  | 25.21 | -2.25 | 22.96 | 197.7  | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 633334 | 81@40 | DFT_64QAM  | 25.31 | -2.25 | 23.06 | 202.3  | 1000 | PASS |

|            |    |    |        |       |            |       |       |       |        |      |      |
|------------|----|----|--------|-------|------------|-------|-------|-------|--------|------|------|
| DC_4A_n78A | 30 | 60 | 633334 | 1@1   | DFT_64QAM  | 25.05 | -2.25 | 22.8  | 190.55 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 633334 | 1@160 | DFT_64QAM  | 24.45 | -2.25 | 22.2  | 165.96 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 633334 | 162@0 | DFT_256QAM | 23.18 | -2.25 | 20.93 | 123.88 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 633334 | 81@40 | DFT_256QAM | 23.28 | -2.25 | 21.03 | 126.77 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 633334 | 1@1   | DFT_256QAM | 23.06 | -2.25 | 20.81 | 120.5  | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 633334 | 1@160 | DFT_256QAM | 22.48 | -2.25 | 20.23 | 105.44 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 633334 | 162@0 | CP_QPSK    | 24.68 | -2.25 | 22.43 | 174.98 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 633334 | 81@40 | CP_QPSK    | 26.27 | -2.25 | 24.02 | 252.35 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 633334 | 1@1   | CP_QPSK    | 26.27 | -2.25 | 24.02 | 252.35 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 633334 | 1@160 | CP_QPSK    | 25.7  | -2.25 | 23.45 | 221.31 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 633334 | 162@0 | CP_16QAM   | 24.67 | -2.25 | 22.42 | 174.58 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 633334 | 81@40 | CP_16QAM   | 25.79 | -2.25 | 23.54 | 225.94 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 633334 | 1@1   | CP_16QAM   | 25.7  | -2.25 | 23.45 | 221.31 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 633334 | 1@160 | CP_16QAM   | 25.14 | -2.25 | 22.89 | 194.54 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 633334 | 162@0 | CP_64QAM   | 24.17 | -2.25 | 21.92 | 155.6  | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 633334 | 81@40 | CP_64QAM   | 24.23 | -2.25 | 21.98 | 157.76 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 633334 | 1@1   | CP_64QAM   | 24.21 | -2.25 | 21.96 | 157.04 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 633334 | 1@160 | CP_64QAM   | 23.58 | -2.25 | 21.33 | 135.83 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 633334 | 162@0 | CP_256QAM  | 21.29 | -2.25 | 19.04 | 80.17  | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 633334 | 81@40 | CP_256QAM  | 21.37 | -2.25 | 19.12 | 81.66  | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 633334 | 1@1   | CP_256QAM  | 21.28 | -2.25 | 19.03 | 79.98  | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 633334 | 1@160 | CP_256QAM  | 20.93 | -2.25 | 18.68 | 73.79  | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 634666 | 162@0 | DFT_BPSK   | 26.99 | -2.25 | 24.74 | 297.85 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 634666 | 81@40 | DFT_BPSK   | 27.62 | -2.25 | 25.37 | 344.35 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 634666 | 1@1   | DFT_BPSK   | 27.52 | -2.25 | 25.27 | 336.51 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 634666 | 1@160 | DFT_BPSK   | 26.84 | -2.25 | 24.59 | 287.74 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 634666 | 162@0 | DFT_QPSK   | 26.52 | -2.25 | 24.27 | 267.3  | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 634666 | 81@40 | DFT_QPSK   | 27.64 | -2.25 | 25.39 | 345.94 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 634666 | 1@1   | DFT_QPSK   | 27.61 | -2.25 | 25.36 | 343.56 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 634666 | 1@160 | DFT_QPSK   | 26.88 | -2.25 | 24.63 | 290.4  | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 634666 | 162@0 | DFT_16QAM  | 25.55 | -2.25 | 23.3  | 213.8  | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 634666 | 81@40 | DFT_16QAM  | 26.65 | -2.25 | 24.4  | 275.42 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 634666 | 1@1   | DFT_16QAM  | 26.29 | -2.25 | 24.04 | 253.51 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 634666 | 1@160 | DFT_16QAM  | 25.57 | -2.25 | 23.32 | 214.78 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 634666 | 162@0 | DFT_64QAM  | 25.04 | -2.25 | 22.79 | 190.11 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 634666 | 81@40 | DFT_64QAM  | 25.13 | -2.25 | 22.88 | 194.09 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 634666 | 1@1   | DFT_64QAM  | 25.09 | -2.25 | 22.84 | 192.31 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 634666 | 1@160 | DFT_64QAM  | 24.37 | -2.25 | 22.12 | 162.93 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 634666 | 162@0 | DFT_256QAM | 22.98 | -2.25 | 20.73 | 118.3  | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 634666 | 81@40 | DFT_256QAM | 23.09 | -2.25 | 20.84 | 121.34 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 634666 | 1@1   | DFT_256QAM | 22.99 | -2.25 | 20.74 | 118.58 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 634666 | 1@160 | DFT_256QAM | 22.27 | -2.25 | 20.02 | 100.46 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 634666 | 162@0 | CP_QPSK    | 24.47 | -2.25 | 22.22 | 166.72 | 1000 | PASS |

|            |    |    |        |       |            |       |       |       |        |      |      |
|------------|----|----|--------|-------|------------|-------|-------|-------|--------|------|------|
| DC_4A_n78A | 30 | 60 | 634666 | 81@40 | CP_QPSK    | 26.1  | -2.25 | 23.85 | 242.66 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 634666 | 1@1   | CP_QPSK    | 26.13 | -2.25 | 23.88 | 244.34 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 634666 | 1@160 | CP_QPSK    | 25.42 | -2.25 | 23.17 | 207.49 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 634666 | 162@0 | CP_16QAM   | 24.54 | -2.25 | 22.29 | 169.43 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 634666 | 81@40 | CP_16QAM   | 25.6  | -2.25 | 23.35 | 216.27 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 634666 | 1@1   | CP_16QAM   | 25.56 | -2.25 | 23.31 | 214.29 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 634666 | 1@160 | CP_16QAM   | 24.83 | -2.25 | 22.58 | 181.13 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 634666 | 162@0 | CP_64QAM   | 24.01 | -2.25 | 21.76 | 149.97 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 634666 | 81@40 | CP_64QAM   | 24.1  | -2.25 | 21.85 | 153.11 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 634666 | 1@1   | CP_64QAM   | 24.14 | -2.25 | 21.89 | 154.53 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 634666 | 1@160 | CP_64QAM   | 23.39 | -2.25 | 21.14 | 130.02 | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 634666 | 162@0 | CP_256QAM  | 21.13 | -2.25 | 18.88 | 77.27  | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 634666 | 81@40 | CP_256QAM  | 21.2  | -2.25 | 18.95 | 78.52  | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 634666 | 1@1   | CP_256QAM  | 21    | -2.25 | 18.75 | 74.99  | 1000 | PASS |
| DC_4A_n78A | 30 | 60 | 634666 | 1@160 | CP_256QAM  | 20.51 | -2.25 | 18.26 | 66.99  | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 632334 | 180@0 | DFT_BPSK   | 27.24 | -2.25 | 24.99 | 315.5  | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 632334 | 90@45 | DFT_BPSK   | 27.91 | -2.25 | 25.66 | 368.13 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 632334 | 1@1   | DFT_BPSK   | 27.49 | -2.25 | 25.24 | 334.2  | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 632334 | 1@187 | DFT_BPSK   | 27.01 | -2.25 | 24.76 | 299.23 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 632334 | 180@0 | DFT_QPSK   | 26.77 | -2.25 | 24.52 | 283.14 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 632334 | 90@45 | DFT_QPSK   | 27.89 | -2.25 | 25.64 | 366.44 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 632334 | 1@1   | DFT_QPSK   | 27.51 | -2.25 | 25.26 | 335.74 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 632334 | 1@187 | DFT_QPSK   | 26.98 | -2.25 | 24.73 | 297.17 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 632334 | 180@0 | DFT_16QAM  | 25.75 | -2.25 | 23.5  | 223.87 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 632334 | 90@45 | DFT_16QAM  | 26.92 | -2.25 | 24.67 | 293.09 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 632334 | 1@1   | DFT_16QAM  | 26.4  | -2.25 | 24.15 | 260.02 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 632334 | 1@187 | DFT_16QAM  | 25.88 | -2.25 | 23.63 | 230.67 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 632334 | 180@0 | DFT_64QAM  | 25.3  | -2.25 | 23.05 | 201.84 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 632334 | 90@45 | DFT_64QAM  | 25.38 | -2.25 | 23.13 | 205.59 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 632334 | 1@1   | DFT_64QAM  | 24.89 | -2.25 | 22.64 | 183.65 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 632334 | 1@187 | DFT_64QAM  | 24.45 | -2.25 | 22.2  | 165.96 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 632334 | 180@0 | DFT_256QAM | 23.25 | -2.25 | 21    | 125.89 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 632334 | 90@45 | DFT_256QAM | 23.35 | -2.25 | 21.1  | 128.82 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 632334 | 1@1   | DFT_256QAM | 22.9  | -2.25 | 20.65 | 116.14 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 632334 | 1@187 | DFT_256QAM | 22.42 | -2.25 | 20.17 | 103.99 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 632334 | 189@0 | CP_QPSK    | 24.67 | -2.25 | 22.42 | 174.58 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 632334 | 95@47 | CP_QPSK    | 26.37 | -2.25 | 24.12 | 258.23 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 632334 | 1@1   | CP_QPSK    | 26.08 | -2.25 | 23.83 | 241.55 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 632334 | 1@187 | CP_QPSK    | 25.63 | -2.25 | 23.38 | 217.77 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 632334 | 189@0 | CP_16QAM   | 24.69 | -2.25 | 22.44 | 175.39 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 632334 | 95@47 | CP_16QAM   | 25.84 | -2.25 | 23.59 | 228.56 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 632334 | 1@1   | CP_16QAM   | 25.62 | -2.25 | 23.37 | 217.27 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 632334 | 1@187 | CP_16QAM   | 25.15 | -2.25 | 22.9  | 194.98 | 1000 | PASS |



|            |    |    |        |       |            |       |       |       |        |      |      |
|------------|----|----|--------|-------|------------|-------|-------|-------|--------|------|------|
| DC_4A_n78A | 30 | 70 | 632334 | 189@0 | CP_64QAM   | 24.24 | -2.25 | 21.99 | 158.12 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 632334 | 95@47 | CP_64QAM   | 24.38 | -2.25 | 22.13 | 163.31 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 632334 | 1@1   | CP_64QAM   | 24.04 | -2.25 | 21.79 | 151.01 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 632334 | 1@187 | CP_64QAM   | 23.57 | -2.25 | 21.32 | 135.52 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 632334 | 189@0 | CP_256QAM  | 21.18 | -2.25 | 18.93 | 78.16  | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 632334 | 95@47 | CP_256QAM  | 21.29 | -2.25 | 19.04 | 80.17  | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 632334 | 1@1   | CP_256QAM  | 20.74 | -2.25 | 18.49 | 70.63  | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 632334 | 1@187 | CP_256QAM  | 20.63 | -2.25 | 18.38 | 68.87  | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 633334 | 180@0 | DFT_BPSK   | 27.22 | -2.25 | 24.97 | 314.05 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 633334 | 90@45 | DFT_BPSK   | 27.77 | -2.25 | 25.52 | 356.45 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 633334 | 1@1   | DFT_BPSK   | 27.45 | -2.25 | 25.2  | 331.13 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 633334 | 1@187 | DFT_BPSK   | 26.85 | -2.25 | 24.6  | 288.4  | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 633334 | 180@0 | DFT_QPSK   | 26.7  | -2.25 | 24.45 | 278.61 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 633334 | 90@45 | DFT_QPSK   | 27.83 | -2.25 | 25.58 | 361.41 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 633334 | 1@1   | DFT_QPSK   | 27.52 | -2.25 | 25.27 | 336.51 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 633334 | 1@187 | DFT_QPSK   | 26.88 | -2.25 | 24.63 | 290.4  | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 633334 | 180@0 | DFT_16QAM  | 25.72 | -2.25 | 23.47 | 222.33 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 633334 | 90@45 | DFT_16QAM  | 26.81 | -2.25 | 24.56 | 285.76 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 633334 | 1@1   | DFT_16QAM  | 26.35 | -2.25 | 24.1  | 257.04 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 633334 | 1@187 | DFT_16QAM  | 25.72 | -2.25 | 23.47 | 222.33 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 633334 | 180@0 | DFT_64QAM  | 25.24 | -2.25 | 22.99 | 199.07 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 633334 | 90@45 | DFT_64QAM  | 25.3  | -2.25 | 23.05 | 201.84 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 633334 | 1@1   | DFT_64QAM  | 24.87 | -2.25 | 22.62 | 182.81 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 633334 | 1@187 | DFT_64QAM  | 24.27 | -2.25 | 22.02 | 159.22 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 633334 | 180@0 | DFT_256QAM | 23.17 | -2.25 | 20.92 | 123.59 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 633334 | 90@45 | DFT_256QAM | 23.24 | -2.25 | 20.99 | 125.6  | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 633334 | 1@1   | DFT_256QAM | 22.86 | -2.25 | 20.61 | 115.08 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 633334 | 1@187 | DFT_256QAM | 22.26 | -2.25 | 20.01 | 100.23 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 633334 | 189@0 | CP_QPSK    | 24.64 | -2.25 | 22.39 | 173.38 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 633334 | 95@47 | CP_QPSK    | 26.27 | -2.25 | 24.02 | 252.35 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 633334 | 1@1   | CP_QPSK    | 26.1  | -2.25 | 23.85 | 242.66 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 633334 | 1@187 | CP_QPSK    | 25.61 | -2.25 | 23.36 | 216.77 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 633334 | 189@0 | CP_16QAM   | 24.68 | -2.25 | 22.43 | 174.98 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 633334 | 95@47 | CP_16QAM   | 25.73 | -2.25 | 23.48 | 222.84 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 633334 | 1@1   | CP_16QAM   | 25.58 | -2.25 | 23.33 | 215.28 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 633334 | 1@187 | CP_16QAM   | 24.93 | -2.25 | 22.68 | 185.35 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 633334 | 189@0 | CP_64QAM   | 24.17 | -2.25 | 21.92 | 155.6  | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 633334 | 95@47 | CP_64QAM   | 24.21 | -2.25 | 21.96 | 157.04 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 633334 | 1@1   | CP_64QAM   | 24.08 | -2.25 | 21.83 | 152.41 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 633334 | 1@187 | CP_64QAM   | 23.47 | -2.25 | 21.22 | 132.43 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 633334 | 189@0 | CP_256QAM  | 21.27 | -2.25 | 19.02 | 79.8   | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 633334 | 95@47 | CP_256QAM  | 21.34 | -2.25 | 19.09 | 81.1   | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 633334 | 1@1   | CP_256QAM  | 20.88 | -2.25 | 18.63 | 72.95  | 1000 | PASS |

|            |    |    |        |        |            |       |       |       |        |      |      |
|------------|----|----|--------|--------|------------|-------|-------|-------|--------|------|------|
| DC_4A_n78A | 30 | 70 | 633334 | 1@187  | CP_256QAM  | 20.53 | -2.25 | 18.28 | 67.3   | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 634332 | 180@0  | DFT_BPSK   | 27.11 | -2.25 | 24.86 | 306.2  | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 634332 | 90@45  | DFT_BPSK   | 27.66 | -2.25 | 25.41 | 347.54 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 634332 | 1@1    | DFT_BPSK   | 27.52 | -2.25 | 25.27 | 336.51 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 634332 | 1@187  | DFT_BPSK   | 26.72 | -2.25 | 24.47 | 279.9  | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 634332 | 180@0  | DFT_QPSK   | 26.62 | -2.25 | 24.37 | 273.53 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 634332 | 90@45  | DFT_QPSK   | 27.69 | -2.25 | 25.44 | 349.95 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 634332 | 1@1    | DFT_QPSK   | 27.55 | -2.25 | 25.3  | 338.84 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 634332 | 1@187  | DFT_QPSK   | 26.76 | -2.25 | 24.51 | 282.49 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 634332 | 180@0  | DFT_16QAM  | 25.65 | -2.25 | 23.4  | 218.78 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 634332 | 90@45  | DFT_16QAM  | 26.71 | -2.25 | 24.46 | 279.25 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 634332 | 1@1    | DFT_16QAM  | 26.46 | -2.25 | 24.21 | 263.63 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 634332 | 1@187  | DFT_16QAM  | 25.6  | -2.25 | 23.35 | 216.27 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 634332 | 180@0  | DFT_64QAM  | 25.12 | -2.25 | 22.87 | 193.64 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 634332 | 90@45  | DFT_64QAM  | 25.22 | -2.25 | 22.97 | 198.15 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 634332 | 1@1    | DFT_64QAM  | 24.97 | -2.25 | 22.72 | 187.07 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 634332 | 1@187  | DFT_64QAM  | 24.13 | -2.25 | 21.88 | 154.17 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 634332 | 180@0  | DFT_256QAM | 23.05 | -2.25 | 20.8  | 120.23 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 634332 | 90@45  | DFT_256QAM | 23.11 | -2.25 | 20.86 | 121.9  | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 634332 | 1@1    | DFT_256QAM | 22.91 | -2.25 | 20.66 | 116.41 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 634332 | 1@187  | DFT_256QAM | 22.07 | -2.25 | 19.82 | 95.94  | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 634332 | 189@0  | CP_QPSK    | 24.55 | -2.25 | 22.3  | 169.82 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 634332 | 95@47  | CP_QPSK    | 26.18 | -2.25 | 23.93 | 247.17 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 634332 | 1@1    | CP_QPSK    | 26.13 | -2.25 | 23.88 | 244.34 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 634332 | 1@187  | CP_QPSK    | 25.3  | -2.25 | 23.05 | 201.84 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 634332 | 189@0  | CP_16QAM   | 24.58 | -2.25 | 22.33 | 171    | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 634332 | 95@47  | CP_16QAM   | 25.71 | -2.25 | 23.46 | 221.82 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 634332 | 1@1    | CP_16QAM   | 25.37 | -2.25 | 23.12 | 205.12 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 634332 | 1@187  | CP_16QAM   | 24.57 | -2.25 | 22.32 | 170.61 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 634332 | 189@0  | CP_64QAM   | 24.06 | -2.25 | 21.81 | 151.71 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 634332 | 95@47  | CP_64QAM   | 24.2  | -2.25 | 21.95 | 156.68 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 634332 | 1@1    | CP_64QAM   | 23.95 | -2.25 | 21.7  | 147.91 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 634332 | 1@187  | CP_64QAM   | 23.18 | -2.25 | 20.93 | 123.88 | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 634332 | 189@0  | CP_256QAM  | 21.13 | -2.25 | 18.88 | 77.27  | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 634332 | 95@47  | CP_256QAM  | 21.28 | -2.25 | 19.03 | 79.98  | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 634332 | 1@1    | CP_256QAM  | 21.08 | -2.25 | 18.83 | 76.38  | 1000 | PASS |
| DC_4A_n78A | 30 | 70 | 634332 | 1@187  | CP_256QAM  | 20.64 | -2.25 | 18.39 | 69.02  | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 632668 | 216@0  | DFT_BPSK   | 27.15 | -2.25 | 24.9  | 309.03 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 632668 | 108@54 | DFT_BPSK   | 27.87 | -2.25 | 25.62 | 364.75 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 632668 | 1@1    | DFT_BPSK   | 27.36 | -2.25 | 25.11 | 324.34 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 632668 | 1@215  | DFT_BPSK   | 26.74 | -2.25 | 24.49 | 281.19 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 632668 | 216@0  | DFT_QPSK   | 26.68 | -2.25 | 24.43 | 277.33 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 632668 | 108@54 | DFT_QPSK   | 27.87 | -2.25 | 25.62 | 364.75 | 1000 | PASS |

|            |    |    |        |        |            |       |       |       |        |      |      |
|------------|----|----|--------|--------|------------|-------|-------|-------|--------|------|------|
| DC_4A_n78A | 30 | 80 | 632668 | 1@1    | DFT_QPSK   | 27.54 | -2.25 | 25.29 | 338.06 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 632668 | 1@215  | DFT_QPSK   | 26.87 | -2.25 | 24.62 | 289.73 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 632668 | 216@0  | DFT_16QAM  | 25.7  | -2.25 | 23.45 | 221.31 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 632668 | 108@54 | DFT_16QAM  | 26.88 | -2.25 | 24.63 | 290.4  | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 632668 | 1@1    | DFT_16QAM  | 26.24 | -2.25 | 23.99 | 250.61 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 632668 | 1@215  | DFT_16QAM  | 25.62 | -2.25 | 23.37 | 217.27 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 632668 | 216@0  | DFT_64QAM  | 25.16 | -2.25 | 22.91 | 195.43 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 632668 | 108@54 | DFT_64QAM  | 25.38 | -2.25 | 23.13 | 205.59 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 632668 | 1@1    | DFT_64QAM  | 24.76 | -2.25 | 22.51 | 178.24 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 632668 | 1@215  | DFT_64QAM  | 24.18 | -2.25 | 21.93 | 155.96 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 632668 | 216@0  | DFT_256QAM | 23.14 | -2.25 | 20.89 | 122.74 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 632668 | 108@54 | DFT_256QAM | 23.39 | -2.25 | 21.14 | 130.02 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 632668 | 1@1    | DFT_256QAM | 22.75 | -2.25 | 20.5  | 112.2  | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 632668 | 1@215  | DFT_256QAM | 22.12 | -2.25 | 19.87 | 97.05  | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 632668 | 217@0  | CP_QPSK    | 24.67 | -2.25 | 22.42 | 174.58 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 632668 | 109@54 | CP_QPSK    | 26.37 | -2.25 | 24.12 | 258.23 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 632668 | 1@1    | CP_QPSK    | 25.98 | -2.25 | 23.73 | 236.05 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 632668 | 1@215  | CP_QPSK    | 25.36 | -2.25 | 23.11 | 204.64 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 632668 | 217@0  | CP_16QAM   | 24.69 | -2.25 | 22.44 | 175.39 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 632668 | 109@54 | CP_16QAM   | 25.9  | -2.25 | 23.65 | 231.74 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 632668 | 1@1    | CP_16QAM   | 25.51 | -2.25 | 23.26 | 211.84 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 632668 | 1@215  | CP_16QAM   | 24.91 | -2.25 | 22.66 | 184.5  | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 632668 | 217@0  | CP_64QAM   | 24.15 | -2.25 | 21.9  | 154.88 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 632668 | 109@54 | CP_64QAM   | 24.32 | -2.25 | 22.07 | 161.06 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 632668 | 1@1    | CP_64QAM   | 23.95 | -2.25 | 21.7  | 147.91 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 632668 | 1@215  | CP_64QAM   | 23.35 | -2.25 | 21.1  | 128.82 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 632668 | 217@0  | CP_256QAM  | 21.13 | -2.25 | 18.88 | 77.27  | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 632668 | 109@54 | CP_256QAM  | 21.31 | -2.25 | 19.06 | 80.54  | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 632668 | 1@1    | CP_256QAM  | 20.67 | -2.25 | 18.42 | 69.5   | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 632668 | 1@215  | CP_256QAM  | 20.38 | -2.25 | 18.13 | 65.01  | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 633334 | 216@0  | DFT_BPSK   | 27.12 | -2.25 | 24.87 | 306.9  | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 633334 | 108@54 | DFT_BPSK   | 27.8  | -2.25 | 25.55 | 358.92 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 633334 | 1@1    | DFT_BPSK   | 27.29 | -2.25 | 25.04 | 319.15 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 633334 | 1@215  | DFT_BPSK   | 26.62 | -2.25 | 24.37 | 273.53 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 633334 | 216@0  | DFT_QPSK   | 26.65 | -2.25 | 24.4  | 275.42 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 633334 | 108@54 | DFT_QPSK   | 27.77 | -2.25 | 25.52 | 356.45 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 633334 | 1@1    | DFT_QPSK   | 27.39 | -2.25 | 25.14 | 326.59 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 633334 | 1@215  | DFT_QPSK   | 26.62 | -2.25 | 24.37 | 273.53 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 633334 | 216@0  | DFT_16QAM  | 25.66 | -2.25 | 23.41 | 219.28 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 633334 | 108@54 | DFT_16QAM  | 26.79 | -2.25 | 24.54 | 284.45 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 633334 | 1@1    | DFT_16QAM  | 26.23 | -2.25 | 23.98 | 250.03 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 633334 | 1@215  | DFT_16QAM  | 25.5  | -2.25 | 23.25 | 211.35 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 633334 | 216@0  | DFT_64QAM  | 25.15 | -2.25 | 22.9  | 194.98 | 1000 | PASS |

|            |    |    |        |        |            |       |       |       |        |      |      |
|------------|----|----|--------|--------|------------|-------|-------|-------|--------|------|------|
| DC_4A_n78A | 30 | 80 | 633334 | 108@54 | DFT_64QAM  | 25.28 | -2.25 | 23.03 | 200.91 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 633334 | 1@1    | DFT_64QAM  | 24.76 | -2.25 | 22.51 | 178.24 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 633334 | 1@215  | DFT_64QAM  | 24.04 | -2.25 | 21.79 | 151.01 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 633334 | 216@0  | DFT_256QAM | 23.1  | -2.25 | 20.85 | 121.62 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 633334 | 108@54 | DFT_256QAM | 23.26 | -2.25 | 21.01 | 126.18 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 633334 | 1@1    | DFT_256QAM | 22.74 | -2.25 | 20.49 | 111.94 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 633334 | 1@215  | DFT_256QAM | 22.02 | -2.25 | 19.77 | 94.84  | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 633334 | 217@0  | CP_QPSK    | 24.59 | -2.25 | 22.34 | 171.4  | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 633334 | 109@54 | CP_QPSK    | 26.25 | -2.25 | 24    | 251.19 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 633334 | 1@1    | CP_QPSK    | 25.95 | -2.25 | 23.7  | 234.42 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 633334 | 1@215  | CP_QPSK    | 25.19 | -2.25 | 22.94 | 196.79 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 633334 | 217@0  | CP_16QAM   | 24.63 | -2.25 | 22.38 | 172.98 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 633334 | 109@54 | CP_16QAM   | 25.79 | -2.25 | 23.54 | 225.94 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 633334 | 1@1    | CP_16QAM   | 25.44 | -2.25 | 23.19 | 208.45 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 633334 | 1@215  | CP_16QAM   | 24.7  | -2.25 | 22.45 | 175.79 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 633334 | 217@0  | CP_64QAM   | 24.09 | -2.25 | 21.84 | 152.76 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 633334 | 109@54 | CP_64QAM   | 24.26 | -2.25 | 22.01 | 158.85 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 633334 | 1@1    | CP_64QAM   | 23.9  | -2.25 | 21.65 | 146.22 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 633334 | 1@215  | CP_64QAM   | 23.17 | -2.25 | 20.92 | 123.59 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 633334 | 217@0  | CP_256QAM  | 21.23 | -2.25 | 18.98 | 79.07  | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 633334 | 109@54 | CP_256QAM  | 21.4  | -2.25 | 19.15 | 82.22  | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 633334 | 1@1    | CP_256QAM  | 20.78 | -2.25 | 18.53 | 71.29  | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 633334 | 1@215  | CP_256QAM  | 20.36 | -2.25 | 18.11 | 64.71  | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 634000 | 216@0  | DFT_BPSK   | 27.04 | -2.25 | 24.79 | 301.3  | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 634000 | 108@54 | DFT_BPSK   | 27.69 | -2.25 | 25.44 | 349.95 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 634000 | 1@1    | DFT_BPSK   | 27.33 | -2.25 | 25.08 | 322.11 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 634000 | 1@215  | DFT_BPSK   | 26.55 | -2.25 | 24.3  | 269.15 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 634000 | 216@0  | DFT_QPSK   | 26.53 | -2.25 | 24.28 | 267.92 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 634000 | 108@54 | DFT_QPSK   | 27.68 | -2.25 | 25.43 | 349.14 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 634000 | 1@1    | DFT_QPSK   | 27.4  | -2.25 | 25.15 | 327.34 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 634000 | 1@215  | DFT_QPSK   | 26.52 | -2.25 | 24.27 | 267.3  | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 634000 | 216@0  | DFT_16QAM  | 25.58 | -2.25 | 23.33 | 215.28 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 634000 | 108@54 | DFT_16QAM  | 26.69 | -2.25 | 24.44 | 277.97 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 634000 | 1@1    | DFT_16QAM  | 26.24 | -2.25 | 23.99 | 250.61 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 634000 | 1@215  | DFT_16QAM  | 25.4  | -2.25 | 23.15 | 206.54 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 634000 | 216@0  | DFT_64QAM  | 25.04 | -2.25 | 22.79 | 190.11 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 634000 | 108@54 | DFT_64QAM  | 25.22 | -2.25 | 22.97 | 198.15 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 634000 | 1@1    | DFT_64QAM  | 24.74 | -2.25 | 22.49 | 177.42 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 634000 | 1@215  | DFT_64QAM  | 23.93 | -2.25 | 21.68 | 147.23 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 634000 | 216@0  | DFT_256QAM | 22.98 | -2.25 | 20.73 | 118.3  | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 634000 | 108@54 | DFT_256QAM | 23.18 | -2.25 | 20.93 | 123.88 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 634000 | 1@1    | DFT_256QAM | 22.76 | -2.25 | 20.51 | 112.46 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 634000 | 1@215  | DFT_256QAM | 21.92 | -2.25 | 19.67 | 92.68  | 1000 | PASS |

|            |    |    |        |        |            |       |       |       |        |      |      |
|------------|----|----|--------|--------|------------|-------|-------|-------|--------|------|------|
| DC_4A_n78A | 30 | 80 | 634000 | 217@0  | CP_QPSK    | 24.52 | -2.25 | 22.27 | 168.66 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 634000 | 109@54 | CP_QPSK    | 26.16 | -2.25 | 23.91 | 246.04 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 634000 | 1@1    | CP_QPSK    | 25.95 | -2.25 | 23.7  | 234.42 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 634000 | 1@215  | CP_QPSK    | 25.09 | -2.25 | 22.84 | 192.31 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 634000 | 217@0  | CP_16QAM   | 24.54 | -2.25 | 22.29 | 169.43 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 634000 | 109@54 | CP_16QAM   | 25.68 | -2.25 | 23.43 | 220.29 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 634000 | 1@1    | CP_16QAM   | 25.46 | -2.25 | 23.21 | 209.41 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 634000 | 1@215  | CP_16QAM   | 24.64 | -2.25 | 22.39 | 173.38 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 634000 | 217@0  | CP_64QAM   | 24.03 | -2.25 | 21.78 | 150.66 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 634000 | 109@54 | CP_64QAM   | 24.17 | -2.25 | 21.92 | 155.6  | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 634000 | 1@1    | CP_64QAM   | 23.91 | -2.25 | 21.66 | 146.55 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 634000 | 1@215  | CP_64QAM   | 23.1  | -2.25 | 20.85 | 121.62 | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 634000 | 217@0  | CP_256QAM  | 21.14 | -2.25 | 18.89 | 77.45  | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 634000 | 109@54 | CP_256QAM  | 21.32 | -2.25 | 19.07 | 80.72  | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 634000 | 1@1    | CP_256QAM  | 20.76 | -2.25 | 18.51 | 70.96  | 1000 | PASS |
| DC_4A_n78A | 30 | 80 | 634000 | 1@215  | CP_256QAM  | 20.26 | -2.25 | 18.01 | 63.24  | 1000 | PASS |
| DC_4A_n78A | 30 | 90 | 633000 | 243@0  | DFT_BPSK   | 27.14 | -2.25 | 24.89 | 308.32 | 1000 | PASS |
| DC_4A_n78A | 30 | 90 | 633000 | 120@60 | DFT_BPSK   | 27.78 | -2.25 | 25.53 | 357.27 | 1000 | PASS |
| DC_4A_n78A | 30 | 90 | 633000 | 1@1    | DFT_BPSK   | 27.18 | -2.25 | 24.93 | 311.17 | 1000 | PASS |
| DC_4A_n78A | 30 | 90 | 633000 | 1@243  | DFT_BPSK   | 26.45 | -2.25 | 24.2  | 263.03 | 1000 | PASS |
| DC_4A_n78A | 30 | 90 | 633000 | 243@0  | DFT_QPSK   | 26.59 | -2.25 | 24.34 | 271.64 | 1000 | PASS |
| DC_4A_n78A | 30 | 90 | 633000 | 120@60 | DFT_QPSK   | 27.76 | -2.25 | 25.51 | 355.63 | 1000 | PASS |
| DC_4A_n78A | 30 | 90 | 633000 | 1@1    | DFT_QPSK   | 27.2  | -2.25 | 24.95 | 312.61 | 1000 | PASS |
| DC_4A_n78A | 30 | 90 | 633000 | 1@243  | DFT_QPSK   | 26.45 | -2.25 | 24.2  | 263.03 | 1000 | PASS |
| DC_4A_n78A | 30 | 90 | 633000 | 243@0  | DFT_16QAM  | 25.57 | -2.25 | 23.32 | 214.78 | 1000 | PASS |
| DC_4A_n78A | 30 | 90 | 633000 | 120@60 | DFT_16QAM  | 26.78 | -2.25 | 24.53 | 283.79 | 1000 | PASS |
| DC_4A_n78A | 30 | 90 | 633000 | 1@1    | DFT_16QAM  | 26.06 | -2.25 | 23.81 | 240.44 | 1000 | PASS |
| DC_4A_n78A | 30 | 90 | 633000 | 1@243  | DFT_16QAM  | 25.32 | -2.25 | 23.07 | 202.77 | 1000 | PASS |
| DC_4A_n78A | 30 | 90 | 633000 | 243@0  | DFT_64QAM  | 25.06 | -2.25 | 22.81 | 190.99 | 1000 | PASS |
| DC_4A_n78A | 30 | 90 | 633000 | 120@60 | DFT_64QAM  | 25.29 | -2.25 | 23.04 | 201.37 | 1000 | PASS |
| DC_4A_n78A | 30 | 90 | 633000 | 1@1    | DFT_64QAM  | 24.6  | -2.25 | 22.35 | 171.79 | 1000 | PASS |
| DC_4A_n78A | 30 | 90 | 633000 | 1@243  | DFT_64QAM  | 23.85 | -2.25 | 21.6  | 144.54 | 1000 | PASS |
| DC_4A_n78A | 30 | 90 | 633000 | 243@0  | DFT_256QAM | 23.05 | -2.25 | 20.8  | 120.23 | 1000 | PASS |
| DC_4A_n78A | 30 | 90 | 633000 | 120@60 | DFT_256QAM | 23.26 | -2.25 | 21.01 | 126.18 | 1000 | PASS |
| DC_4A_n78A | 30 | 90 | 633000 | 1@1    | DFT_256QAM | 22.63 | -2.25 | 20.38 | 109.14 | 1000 | PASS |
| DC_4A_n78A | 30 | 90 | 633000 | 1@243  | DFT_256QAM | 21.88 | -2.25 | 19.63 | 91.83  | 1000 | PASS |
| DC_4A_n78A | 30 | 90 | 633000 | 245@0  | CP_QPSK    | 24.52 | -2.25 | 22.27 | 168.66 | 1000 | PASS |
| DC_4A_n78A | 30 | 90 | 633000 | 123@61 | CP_QPSK    | 26.24 | -2.25 | 23.99 | 250.61 | 1000 | PASS |
| DC_4A_n78A | 30 | 90 | 633000 | 1@1    | CP_QPSK    | 25.74 | -2.25 | 23.49 | 223.36 | 1000 | PASS |
| DC_4A_n78A | 30 | 90 | 633000 | 1@243  | CP_QPSK    | 25.01 | -2.25 | 22.76 | 188.8  | 1000 | PASS |
| DC_4A_n78A | 30 | 90 | 633000 | 245@0  | CP_16QAM   | 24.55 | -2.25 | 22.3  | 169.82 | 1000 | PASS |
| DC_4A_n78A | 30 | 90 | 633000 | 123@61 | CP_16QAM   | 25.75 | -2.25 | 23.5  | 223.87 | 1000 | PASS |
| DC_4A_n78A | 30 | 90 | 633000 | 1@1    | CP_16QAM   | 25.04 | -2.25 | 22.79 | 190.11 | 1000 | PASS |



|            |    |    |        |        |            |       |       |       |        |      |      |
|------------|----|----|--------|--------|------------|-------|-------|-------|--------|------|------|
| DC_4A_n78A | 30 | 90 | 633000 | 1@243  | CP_16QAM   | 24.25 | -2.25 | 22    | 158.49 | 1000 | PASS |
| DC_4A_n78A | 30 | 90 | 633000 | 245@0  | CP_64QAM   | 24.03 | -2.25 | 21.78 | 150.66 | 1000 | PASS |
| DC_4A_n78A | 30 | 90 | 633000 | 123@61 | CP_64QAM   | 24.25 | -2.25 | 22    | 158.49 | 1000 | PASS |
| DC_4A_n78A | 30 | 90 | 633000 | 1@1    | CP_64QAM   | 23.56 | -2.25 | 21.31 | 135.21 | 1000 | PASS |
| DC_4A_n78A | 30 | 90 | 633000 | 1@243  | CP_64QAM   | 22.8  | -2.25 | 20.55 | 113.5  | 1000 | PASS |
| DC_4A_n78A | 30 | 90 | 633000 | 245@0  | CP_256QAM  | 21.19 | -2.25 | 18.94 | 78.34  | 1000 | PASS |
| DC_4A_n78A | 30 | 90 | 633000 | 123@61 | CP_256QAM  | 21.18 | -2.25 | 18.93 | 78.16  | 1000 | PASS |
| DC_4A_n78A | 30 | 90 | 633000 | 1@1    | CP_256QAM  | 20.66 | -2.25 | 18.41 | 69.34  | 1000 | PASS |
| DC_4A_n78A | 30 | 90 | 633000 | 1@243  | CP_256QAM  | 20.34 | -2.25 | 18.09 | 64.42  | 1000 | PASS |
| DC_4A_n78A | 30 | 90 | 633334 | 243@0  | DFT_BPSK   | 27.09 | -2.25 | 24.84 | 304.79 | 1000 | PASS |
| DC_4A_n78A | 30 | 90 | 633334 | 120@60 | DFT_BPSK   | 27.75 | -2.25 | 25.5  | 354.81 | 1000 | PASS |
| DC_4A_n78A | 30 | 90 | 633334 | 1@1    | DFT_BPSK   | 27.17 | -2.25 | 24.92 | 310.46 | 1000 | PASS |
| DC_4A_n78A | 30 | 90 | 633334 | 1@243  | DFT_BPSK   | 26.42 | -2.25 | 24.17 | 261.22 | 1000 | PASS |
| DC_4A_n78A | 30 | 90 | 633334 | 243@0  | DFT_QPSK   | 26.57 | -2.25 | 24.32 | 270.4  | 1000 | PASS |
| DC_4A_n78A | 30 | 90 | 633334 | 120@60 | DFT_QPSK   | 27.77 | -2.25 | 25.52 | 356.45 | 1000 | PASS |
| DC_4A_n78A | 30 | 90 | 633334 | 1@1    | DFT_QPSK   | 27.22 | -2.25 | 24.97 | 314.05 | 1000 | PASS |
| DC_4A_n78A | 30 | 90 | 633334 | 1@243  | DFT_QPSK   | 26.42 | -2.25 | 24.17 | 261.22 | 1000 | PASS |
| DC_4A_n78A | 30 | 90 | 633334 | 243@0  | DFT_16QAM  | 25.54 | -2.25 | 23.29 | 213.3  | 1000 | PASS |
| DC_4A_n78A | 30 | 90 | 633334 | 120@60 | DFT_16QAM  | 26.77 | -2.25 | 24.52 | 283.14 | 1000 | PASS |
| DC_4A_n78A | 30 | 90 | 633334 | 1@1    | DFT_16QAM  | 26.07 | -2.25 | 23.82 | 240.99 | 1000 | PASS |
| DC_4A_n78A | 30 | 90 | 633334 | 1@243  | DFT_16QAM  | 25.3  | -2.25 | 23.05 | 201.84 | 1000 | PASS |
| DC_4A_n78A | 30 | 90 | 633334 | 243@0  | DFT_64QAM  | 25.05 | -2.25 | 22.8  | 190.55 | 1000 | PASS |
| DC_4A_n78A | 30 | 90 | 633334 | 120@60 | DFT_64QAM  | 25.26 | -2.25 | 23.01 | 199.99 | 1000 | PASS |
| DC_4A_n78A | 30 | 90 | 633334 | 1@1    | DFT_64QAM  | 24.58 | -2.25 | 22.33 | 171    | 1000 | PASS |
| DC_4A_n78A | 30 | 90 | 633334 | 1@243  | DFT_64QAM  | 23.81 | -2.25 | 21.56 | 143.22 | 1000 | PASS |
| DC_4A_n78A | 30 | 90 | 633334 | 243@0  | DFT_256QAM | 23.04 | -2.25 | 20.79 | 119.95 | 1000 | PASS |
| DC_4A_n78A | 30 | 90 | 633334 | 120@60 | DFT_256QAM | 23.24 | -2.25 | 20.99 | 125.6  | 1000 | PASS |
| DC_4A_n78A | 30 | 90 | 633334 | 1@1    | DFT_256QAM | 22.54 | -2.25 | 20.29 | 106.91 | 1000 | PASS |
| DC_4A_n78A | 30 | 90 | 633334 | 1@243  | DFT_256QAM | 21.74 | -2.25 | 19.49 | 88.92  | 1000 | PASS |
| DC_4A_n78A | 30 | 90 | 633334 | 245@0  | CP_QPSK    | 24.55 | -2.25 | 22.3  | 169.82 | 1000 | PASS |
| DC_4A_n78A | 30 | 90 | 633334 | 123@61 | CP_QPSK    | 26.21 | -2.25 | 23.96 | 248.89 | 1000 | PASS |
| DC_4A_n78A | 30 | 90 | 633334 | 1@1    | CP_QPSK    | 25.8  | -2.25 | 23.55 | 226.46 | 1000 | PASS |
| DC_4A_n78A | 30 | 90 | 633334 | 1@243  | CP_QPSK    | 24.97 | -2.25 | 22.72 | 187.07 | 1000 | PASS |
| DC_4A_n78A | 30 | 90 | 633334 | 245@0  | CP_16QAM   | 24.54 | -2.25 | 22.29 | 169.43 | 1000 | PASS |
| DC_4A_n78A | 30 | 90 | 633334 | 123@61 | CP_16QAM   | 25.73 | -2.25 | 23.48 | 222.84 | 1000 | PASS |
| DC_4A_n78A | 30 | 90 | 633334 | 1@1    | CP_16QAM   | 25.25 | -2.25 | 23    | 199.53 | 1000 | PASS |
| DC_4A_n78A | 30 | 90 | 633334 | 1@243  | CP_16QAM   | 24.5  | -2.25 | 22.25 | 167.88 | 1000 | PASS |
| DC_4A_n78A | 30 | 90 | 633334 | 245@0  | CP_64QAM   | 24.02 | -2.25 | 21.77 | 150.31 | 1000 | PASS |
| DC_4A_n78A | 30 | 90 | 633334 | 123@61 | CP_64QAM   | 24.21 | -2.25 | 21.96 | 157.04 | 1000 | PASS |
| DC_4A_n78A | 30 | 90 | 633334 | 1@1    | CP_64QAM   | 23.71 | -2.25 | 21.46 | 139.96 | 1000 | PASS |
| DC_4A_n78A | 30 | 90 | 633334 | 1@243  | CP_64QAM   | 22.96 | -2.25 | 20.71 | 117.76 | 1000 | PASS |
| DC_4A_n78A | 30 | 90 | 633334 | 245@0  | CP_256QAM  | 21.16 | -2.25 | 18.91 | 77.8   | 1000 | PASS |
| DC_4A_n78A | 30 | 90 | 633334 | 123@61 | CP_256QAM  | 21.32 | -2.25 | 19.07 | 80.72  | 1000 | PASS |

|            |    |     |        |        |            |       |       |       |        |      |      |
|------------|----|-----|--------|--------|------------|-------|-------|-------|--------|------|------|
| DC_4A_n78A | 30 | 90  | 633334 | 1@1    | CP_256QAM  | 20.54 | -2.25 | 18.29 | 67.45  | 1000 | PASS |
| DC_4A_n78A | 30 | 90  | 633334 | 1@243  | CP_256QAM  | 20.18 | -2.25 | 17.93 | 62.09  | 1000 | PASS |
| DC_4A_n78A | 30 | 90  | 633666 | 243@0  | DFT_BPSK   | 27.09 | -2.25 | 24.84 | 304.79 | 1000 | PASS |
| DC_4A_n78A | 30 | 90  | 633666 | 120@60 | DFT_BPSK   | 27.76 | -2.25 | 25.51 | 355.63 | 1000 | PASS |
| DC_4A_n78A | 30 | 90  | 633666 | 1@1    | DFT_BPSK   | 27.26 | -2.25 | 25.01 | 316.96 | 1000 | PASS |
| DC_4A_n78A | 30 | 90  | 633666 | 1@243  | DFT_BPSK   | 26.39 | -2.25 | 24.14 | 259.42 | 1000 | PASS |
| DC_4A_n78A | 30 | 90  | 633666 | 243@0  | DFT_QPSK   | 26.6  | -2.25 | 24.35 | 272.27 | 1000 | PASS |
| DC_4A_n78A | 30 | 90  | 633666 | 120@60 | DFT_QPSK   | 27.75 | -2.25 | 25.5  | 354.81 | 1000 | PASS |
| DC_4A_n78A | 30 | 90  | 633666 | 1@1    | DFT_QPSK   | 27.28 | -2.25 | 25.03 | 318.42 | 1000 | PASS |
| DC_4A_n78A | 30 | 90  | 633666 | 1@243  | DFT_QPSK   | 26.41 | -2.25 | 24.16 | 260.62 | 1000 | PASS |
| DC_4A_n78A | 30 | 90  | 633666 | 243@0  | DFT_16QAM  | 25.6  | -2.25 | 23.35 | 216.27 | 1000 | PASS |
| DC_4A_n78A | 30 | 90  | 633666 | 120@60 | DFT_16QAM  | 26.75 | -2.25 | 24.5  | 281.84 | 1000 | PASS |
| DC_4A_n78A | 30 | 90  | 633666 | 1@1    | DFT_16QAM  | 26.15 | -2.25 | 23.9  | 245.47 | 1000 | PASS |
| DC_4A_n78A | 30 | 90  | 633666 | 1@243  | DFT_16QAM  | 25.26 | -2.25 | 23.01 | 199.99 | 1000 | PASS |
| DC_4A_n78A | 30 | 90  | 633666 | 243@0  | DFT_64QAM  | 25.09 | -2.25 | 22.84 | 192.31 | 1000 | PASS |
| DC_4A_n78A | 30 | 90  | 633666 | 120@60 | DFT_64QAM  | 25.26 | -2.25 | 23.01 | 199.99 | 1000 | PASS |
| DC_4A_n78A | 30 | 90  | 633666 | 1@1    | DFT_64QAM  | 24.65 | -2.25 | 22.4  | 173.78 | 1000 | PASS |
| DC_4A_n78A | 30 | 90  | 633666 | 1@243  | DFT_64QAM  | 23.8  | -2.25 | 21.55 | 142.89 | 1000 | PASS |
| DC_4A_n78A | 30 | 90  | 633666 | 243@0  | DFT_256QAM | 23.09 | -2.25 | 20.84 | 121.34 | 1000 | PASS |
| DC_4A_n78A | 30 | 90  | 633666 | 120@60 | DFT_256QAM | 23.19 | -2.25 | 20.94 | 124.17 | 1000 | PASS |
| DC_4A_n78A | 30 | 90  | 633666 | 1@1    | DFT_256QAM | 22.61 | -2.25 | 20.36 | 108.64 | 1000 | PASS |
| DC_4A_n78A | 30 | 90  | 633666 | 1@243  | DFT_256QAM | 21.76 | -2.25 | 19.51 | 89.33  | 1000 | PASS |
| DC_4A_n78A | 30 | 90  | 633666 | 245@0  | CP_QPSK    | 24.55 | -2.25 | 22.3  | 169.82 | 1000 | PASS |
| DC_4A_n78A | 30 | 90  | 633666 | 123@61 | CP_QPSK    | 26.23 | -2.25 | 23.98 | 250.03 | 1000 | PASS |
| DC_4A_n78A | 30 | 90  | 633666 | 1@1    | CP_QPSK    | 25.86 | -2.25 | 23.61 | 229.61 | 1000 | PASS |
| DC_4A_n78A | 30 | 90  | 633666 | 1@243  | CP_QPSK    | 25.08 | -2.25 | 22.83 | 191.87 | 1000 | PASS |
| DC_4A_n78A | 30 | 90  | 633666 | 245@0  | CP_16QAM   | 24.54 | -2.25 | 22.29 | 169.43 | 1000 | PASS |
| DC_4A_n78A | 30 | 90  | 633666 | 123@61 | CP_16QAM   | 25.71 | -2.25 | 23.46 | 221.82 | 1000 | PASS |
| DC_4A_n78A | 30 | 90  | 633666 | 1@1    | CP_16QAM   | 25.31 | -2.25 | 23.06 | 202.3  | 1000 | PASS |
| DC_4A_n78A | 30 | 90  | 633666 | 1@243  | CP_16QAM   | 24.58 | -2.25 | 22.33 | 171    | 1000 | PASS |
| DC_4A_n78A | 30 | 90  | 633666 | 245@0  | CP_64QAM   | 24.02 | -2.25 | 21.77 | 150.31 | 1000 | PASS |
| DC_4A_n78A | 30 | 90  | 633666 | 123@61 | CP_64QAM   | 24.19 | -2.25 | 21.94 | 156.31 | 1000 | PASS |
| DC_4A_n78A | 30 | 90  | 633666 | 1@1    | CP_64QAM   | 23.8  | -2.25 | 21.55 | 142.89 | 1000 | PASS |
| DC_4A_n78A | 30 | 90  | 633666 | 1@243  | CP_64QAM   | 23    | -2.25 | 20.75 | 118.85 | 1000 | PASS |
| DC_4A_n78A | 30 | 90  | 633666 | 245@0  | CP_256QAM  | 21.18 | -2.25 | 18.93 | 78.16  | 1000 | PASS |
| DC_4A_n78A | 30 | 90  | 633666 | 123@61 | CP_256QAM  | 21.32 | -2.25 | 19.07 | 80.72  | 1000 | PASS |
| DC_4A_n78A | 30 | 90  | 633666 | 1@1    | CP_256QAM  | 20.61 | -2.25 | 18.36 | 68.55  | 1000 | PASS |
| DC_4A_n78A | 30 | 90  | 633666 | 1@243  | CP_256QAM  | 20.17 | -2.25 | 17.92 | 61.94  | 1000 | PASS |
| DC_4A_n78A | 30 | 100 | 633334 | 270@0  | DFT_BPSK   | 26.98 | -2.25 | 24.73 | 297.17 | 1000 | PASS |
| DC_4A_n78A | 30 | 100 | 633334 | 135@67 | DFT_BPSK   | 27.75 | -2.25 | 25.5  | 354.81 | 1000 | PASS |
| DC_4A_n78A | 30 | 100 | 633334 | 1@1    | DFT_BPSK   | 27.09 | -2.25 | 24.84 | 304.79 | 1000 | PASS |
| DC_4A_n78A | 30 | 100 | 633334 | 1@271  | DFT_BPSK   | 26.21 | -2.25 | 23.96 | 248.89 | 1000 | PASS |
| DC_4A_n78A | 30 | 100 | 633334 | 270@0  | DFT_QPSK   | 26.5  | -2.25 | 24.25 | 266.07 | 1000 | PASS |

|            |    |     |        |        |            |       |       |       |        |      |      |
|------------|----|-----|--------|--------|------------|-------|-------|-------|--------|------|------|
| DC_4A_n78A | 30 | 100 | 633334 | 135@67 | DFT_QPSK   | 27.8  | -2.25 | 25.55 | 358.92 | 1000 | PASS |
| DC_4A_n78A | 30 | 100 | 633334 | 1@1    | DFT_QPSK   | 27.06 | -2.25 | 24.81 | 302.69 | 1000 | PASS |
| DC_4A_n78A | 30 | 100 | 633334 | 1@271  | DFT_QPSK   | 26.19 | -2.25 | 23.94 | 247.74 | 1000 | PASS |
| DC_4A_n78A | 30 | 100 | 633334 | 270@0  | DFT_16QAM  | 25.49 | -2.25 | 23.24 | 210.86 | 1000 | PASS |
| DC_4A_n78A | 30 | 100 | 633334 | 135@67 | DFT_16QAM  | 26.76 | -2.25 | 24.51 | 282.49 | 1000 | PASS |
| DC_4A_n78A | 30 | 100 | 633334 | 1@1    | DFT_16QAM  | 26.06 | -2.25 | 23.81 | 240.44 | 1000 | PASS |
| DC_4A_n78A | 30 | 100 | 633334 | 1@271  | DFT_16QAM  | 25.16 | -2.25 | 22.91 | 195.43 | 1000 | PASS |
| DC_4A_n78A | 30 | 100 | 633334 | 270@0  | DFT_64QAM  | 25.01 | -2.25 | 22.76 | 188.8  | 1000 | PASS |
| DC_4A_n78A | 30 | 100 | 633334 | 135@67 | DFT_64QAM  | 25.23 | -2.25 | 22.98 | 198.61 | 1000 | PASS |
| DC_4A_n78A | 30 | 100 | 633334 | 1@1    | DFT_64QAM  | 24.37 | -2.25 | 22.12 | 162.93 | 1000 | PASS |
| DC_4A_n78A | 30 | 100 | 633334 | 1@271  | DFT_64QAM  | 23.52 | -2.25 | 21.27 | 133.97 | 1000 | PASS |
| DC_4A_n78A | 30 | 100 | 633334 | 270@0  | DFT_256QAM | 23    | -2.25 | 20.75 | 118.85 | 1000 | PASS |
| DC_4A_n78A | 30 | 100 | 633334 | 135@67 | DFT_256QAM | 23.23 | -2.25 | 20.98 | 125.31 | 1000 | PASS |
| DC_4A_n78A | 30 | 100 | 633334 | 1@1    | DFT_256QAM | 22.39 | -2.25 | 20.14 | 103.28 | 1000 | PASS |
| DC_4A_n78A | 30 | 100 | 633334 | 1@271  | DFT_256QAM | 21.53 | -2.25 | 19.28 | 84.72  | 1000 | PASS |
| DC_4A_n78A | 30 | 100 | 633334 | 273@0  | CP_QPSK    | 24.45 | -2.25 | 22.2  | 165.96 | 1000 | PASS |
| DC_4A_n78A | 30 | 100 | 633334 | 137@68 | CP_QPSK    | 26.23 | -2.25 | 23.98 | 250.03 | 1000 | PASS |
| DC_4A_n78A | 30 | 100 | 633334 | 1@1    | CP_QPSK    | 25.67 | -2.25 | 23.42 | 219.79 | 1000 | PASS |
| DC_4A_n78A | 30 | 100 | 633334 | 1@271  | CP_QPSK    | 24.74 | -2.25 | 22.49 | 177.42 | 1000 | PASS |
| DC_4A_n78A | 30 | 100 | 633334 | 273@0  | CP_16QAM   | 24.44 | -2.25 | 22.19 | 165.58 | 1000 | PASS |
| DC_4A_n78A | 30 | 100 | 633334 | 137@68 | CP_16QAM   | 25.8  | -2.25 | 23.55 | 226.46 | 1000 | PASS |
| DC_4A_n78A | 30 | 100 | 633334 | 1@1    | CP_16QAM   | 25.13 | -2.25 | 22.88 | 194.09 | 1000 | PASS |
| DC_4A_n78A | 30 | 100 | 633334 | 1@271  | CP_16QAM   | 24.26 | -2.25 | 22.01 | 158.85 | 1000 | PASS |
| DC_4A_n78A | 30 | 100 | 633334 | 273@0  | CP_64QAM   | 23.97 | -2.25 | 21.72 | 148.59 | 1000 | PASS |
| DC_4A_n78A | 30 | 100 | 633334 | 137@68 | CP_64QAM   | 24.24 | -2.25 | 21.99 | 158.12 | 1000 | PASS |
| DC_4A_n78A | 30 | 100 | 633334 | 1@1    | CP_64QAM   | 23.59 | -2.25 | 21.34 | 136.14 | 1000 | PASS |
| DC_4A_n78A | 30 | 100 | 633334 | 1@271  | CP_64QAM   | 22.71 | -2.25 | 20.46 | 111.17 | 1000 | PASS |
| DC_4A_n78A | 30 | 100 | 633334 | 273@0  | CP_256QAM  | 21.12 | -2.25 | 18.87 | 77.09  | 1000 | PASS |
| DC_4A_n78A | 30 | 100 | 633334 | 137@68 | CP_256QAM  | 21.39 | -2.25 | 19.14 | 82.04  | 1000 | PASS |
| DC_4A_n78A | 30 | 100 | 633334 | 1@1    | CP_256QAM  | 20.45 | -2.25 | 18.2  | 66.07  | 1000 | PASS |
| DC_4A_n78A | 30 | 100 | 633334 | 1@271  | CP_256QAM  | 19.99 | -2.25 | 17.74 | 59.43  | 1000 | PASS |

| Band       | SCS<br>(kHz) | Bandwidth<br>(MHz) | UL<br>Channel | RB<br>Allocation | Modulation | Power<br>(dBm) | GT -<br>Lc<br>(dB) | EIRP<br>(dBm) | EIRP<br>(mW) | EIRP<br>Limit<br>(mW) | Verdict |
|------------|--------------|--------------------|---------------|------------------|------------|----------------|--------------------|---------------|--------------|-----------------------|---------|
| DC_5A_n78A | 30           | 10                 | 630334        | 24@0             | DFT_BPSK   | 27.05          | -2.25              | 24.8          | 302          | 1000                  | PASS    |
| DC_5A_n78A | 30           | 10                 | 630334        | 12@6             | DFT_BPSK   | 27.54          | -2.25              | 25.29         | 338.06       | 1000                  | PASS    |
| DC_5A_n78A | 30           | 10                 | 630334        | 1@1              | DFT_BPSK   | 27.47          | -2.25              | 25.22         | 332.66       | 1000                  | PASS    |
| DC_5A_n78A | 30           | 10                 | 630334        | 1@22             | DFT_BPSK   | 27.37          | -2.25              | 25.12         | 325.09       | 1000                  | PASS    |
| DC_5A_n78A | 30           | 10                 | 630334        | 24@0             | DFT_QPSK   | 26.58          | -2.25              | 24.33         | 271.02       | 1000                  | PASS    |
| DC_5A_n78A | 30           | 10                 | 630334        | 12@6             | DFT_QPSK   | 27.52          | -2.25              | 25.27         | 336.51       | 1000                  | PASS    |
| DC_5A_n78A | 30           | 10                 | 630334        | 1@1              | DFT_QPSK   | 27.48          | -2.25              | 25.23         | 333.43       | 1000                  | PASS    |
| DC_5A_n78A | 30           | 10                 | 630334        | 1@22             | DFT_QPSK   | 27.49          | -2.25              | 25.24         | 334.2        | 1000                  | PASS    |

|            |    |    |        |      |            |       |       |       |        |      |      |
|------------|----|----|--------|------|------------|-------|-------|-------|--------|------|------|
| DC_5A_n78A | 30 | 10 | 630334 | 24@0 | DFT_16QAM  | 25.57 | -2.25 | 23.32 | 214.78 | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 630334 | 12@6 | DFT_16QAM  | 26.46 | -2.25 | 24.21 | 263.63 | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 630334 | 1@1  | DFT_16QAM  | 26.32 | -2.25 | 24.07 | 255.27 | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 630334 | 1@22 | DFT_16QAM  | 26.31 | -2.25 | 24.06 | 254.68 | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 630334 | 24@0 | DFT_64QAM  | 25.12 | -2.25 | 22.87 | 193.64 | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 630334 | 12@6 | DFT_64QAM  | 25.03 | -2.25 | 22.78 | 189.67 | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 630334 | 1@1  | DFT_64QAM  | 24.83 | -2.25 | 22.58 | 181.13 | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 630334 | 1@22 | DFT_64QAM  | 24.82 | -2.25 | 22.57 | 180.72 | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 630334 | 24@0 | DFT_256QAM | 23.06 | -2.25 | 20.81 | 120.5  | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 630334 | 12@6 | DFT_256QAM | 23.07 | -2.25 | 20.82 | 120.78 | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 630334 | 1@1  | DFT_256QAM | 23.01 | -2.25 | 20.76 | 119.12 | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 630334 | 1@22 | DFT_256QAM | 22.96 | -2.25 | 20.71 | 117.76 | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 630334 | 24@0 | CP_QPSK    | 24.56 | -2.25 | 22.31 | 170.22 | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 630334 | 12@6 | CP_QPSK    | 26.09 | -2.25 | 23.84 | 242.1  | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 630334 | 1@1  | CP_QPSK    | 25.98 | -2.25 | 23.73 | 236.05 | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 630334 | 1@22 | CP_QPSK    | 25.97 | -2.25 | 23.72 | 235.5  | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 630334 | 24@0 | CP_16QAM   | 24.56 | -2.25 | 22.31 | 170.22 | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 630334 | 12@6 | CP_16QAM   | 25.54 | -2.25 | 23.29 | 213.3  | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 630334 | 1@1  | CP_16QAM   | 25.62 | -2.25 | 23.37 | 217.27 | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 630334 | 1@22 | CP_16QAM   | 25.61 | -2.25 | 23.36 | 216.77 | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 630334 | 24@0 | CP_64QAM   | 24.04 | -2.25 | 21.79 | 151.01 | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 630334 | 12@6 | CP_64QAM   | 24.05 | -2.25 | 21.8  | 151.36 | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 630334 | 1@1  | CP_64QAM   | 24.28 | -2.25 | 22.03 | 159.59 | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 630334 | 1@22 | CP_64QAM   | 24.2  | -2.25 | 21.95 | 156.68 | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 630334 | 24@0 | CP_256QAM  | 21.07 | -2.25 | 18.82 | 76.21  | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 630334 | 12@6 | CP_256QAM  | 21.1  | -2.25 | 18.85 | 76.74  | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 630334 | 1@1  | CP_256QAM  | 21.1  | -2.25 | 18.85 | 76.74  | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 630334 | 1@22 | CP_256QAM  | 21.02 | -2.25 | 18.77 | 75.34  | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 633334 | 24@0 | DFT_BPSK   | 26.95 | -2.25 | 24.7  | 295.12 | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 633334 | 12@6 | DFT_BPSK   | 27.42 | -2.25 | 25.17 | 328.85 | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 633334 | 1@1  | DFT_BPSK   | 27.36 | -2.25 | 25.11 | 324.34 | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 633334 | 1@22 | DFT_BPSK   | 27.3  | -2.25 | 25.05 | 319.89 | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 633334 | 24@0 | DFT_QPSK   | 26.44 | -2.25 | 24.19 | 262.42 | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 633334 | 12@6 | DFT_QPSK   | 27.48 | -2.25 | 25.23 | 333.43 | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 633334 | 1@1  | DFT_QPSK   | 27.4  | -2.25 | 25.15 | 327.34 | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 633334 | 1@22 | DFT_QPSK   | 27.41 | -2.25 | 25.16 | 328.1  | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 633334 | 24@0 | DFT_16QAM  | 25.44 | -2.25 | 23.19 | 208.45 | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 633334 | 12@6 | DFT_16QAM  | 26.39 | -2.25 | 24.14 | 259.42 | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 633334 | 1@1  | DFT_16QAM  | 26.22 | -2.25 | 23.97 | 249.46 | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 633334 | 1@22 | DFT_16QAM  | 26.18 | -2.25 | 23.93 | 247.17 | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 633334 | 24@0 | DFT_64QAM  | 24.96 | -2.25 | 22.71 | 186.64 | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 633334 | 12@6 | DFT_64QAM  | 24.96 | -2.25 | 22.71 | 186.64 | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 633334 | 1@1  | DFT_64QAM  | 24.77 | -2.25 | 22.52 | 178.65 | 1000 | PASS |

|            |    |    |        |      |            |       |       |       |        |      |      |
|------------|----|----|--------|------|------------|-------|-------|-------|--------|------|------|
| DC_5A_n78A | 30 | 10 | 633334 | 1@22 | DFT_64QAM  | 24.68 | -2.25 | 22.43 | 174.98 | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 633334 | 24@0 | DFT_256QAM | 22.96 | -2.25 | 20.71 | 117.76 | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 633334 | 12@6 | DFT_256QAM | 22.97 | -2.25 | 20.72 | 118.03 | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 633334 | 1@1  | DFT_256QAM | 22.9  | -2.25 | 20.65 | 116.14 | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 633334 | 1@22 | DFT_256QAM | 22.86 | -2.25 | 20.61 | 115.08 | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 633334 | 24@0 | CP_QPSK    | 24.45 | -2.25 | 22.2  | 165.96 | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 633334 | 12@6 | CP_QPSK    | 25.94 | -2.25 | 23.69 | 233.88 | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 633334 | 1@1  | CP_QPSK    | 25.93 | -2.25 | 23.68 | 233.35 | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 633334 | 1@22 | CP_QPSK    | 25.86 | -2.25 | 23.61 | 229.61 | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 633334 | 24@0 | CP_16QAM   | 24.44 | -2.25 | 22.19 | 165.58 | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 633334 | 12@6 | CP_16QAM   | 25.4  | -2.25 | 23.15 | 206.54 | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 633334 | 1@1  | CP_16QAM   | 25.48 | -2.25 | 23.23 | 210.38 | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 633334 | 1@22 | CP_16QAM   | 25.48 | -2.25 | 23.23 | 210.38 | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 633334 | 24@0 | CP_64QAM   | 23.9  | -2.25 | 21.65 | 146.22 | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 633334 | 12@6 | CP_64QAM   | 23.9  | -2.25 | 21.65 | 146.22 | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 633334 | 1@1  | CP_64QAM   | 24.14 | -2.25 | 21.89 | 154.53 | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 633334 | 1@22 | CP_64QAM   | 24.02 | -2.25 | 21.77 | 150.31 | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 633334 | 24@0 | CP_256QAM  | 20.88 | -2.25 | 18.63 | 72.95  | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 633334 | 12@6 | CP_256QAM  | 20.94 | -2.25 | 18.69 | 73.96  | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 633334 | 1@1  | CP_256QAM  | 20.97 | -2.25 | 18.72 | 74.47  | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 633334 | 1@22 | CP_256QAM  | 20.88 | -2.25 | 18.63 | 72.95  | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 636332 | 24@0 | DFT_BPSK   | 26.7  | -2.25 | 24.45 | 278.61 | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 636332 | 12@6 | DFT_BPSK   | 27.22 | -2.25 | 24.97 | 314.05 | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 636332 | 1@1  | DFT_BPSK   | 27.16 | -2.25 | 24.91 | 309.74 | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 636332 | 1@22 | DFT_BPSK   | 27.11 | -2.25 | 24.86 | 306.2  | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 636332 | 24@0 | DFT_QPSK   | 26.2  | -2.25 | 23.95 | 248.31 | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 636332 | 12@6 | DFT_QPSK   | 27.27 | -2.25 | 25.02 | 317.69 | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 636332 | 1@1  | DFT_QPSK   | 27.16 | -2.25 | 24.91 | 309.74 | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 636332 | 1@22 | DFT_QPSK   | 27.18 | -2.25 | 24.93 | 311.17 | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 636332 | 24@0 | DFT_16QAM  | 25.19 | -2.25 | 22.94 | 196.79 | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 636332 | 12@6 | DFT_16QAM  | 26.16 | -2.25 | 23.91 | 246.04 | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 636332 | 1@1  | DFT_16QAM  | 25.98 | -2.25 | 23.73 | 236.05 | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 636332 | 1@22 | DFT_16QAM  | 25.96 | -2.25 | 23.71 | 234.96 | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 636332 | 24@0 | DFT_64QAM  | 24.73 | -2.25 | 22.48 | 177.01 | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 636332 | 12@6 | DFT_64QAM  | 24.77 | -2.25 | 22.52 | 178.65 | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 636332 | 1@1  | DFT_64QAM  | 24.5  | -2.25 | 22.25 | 167.88 | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 636332 | 1@22 | DFT_64QAM  | 24.52 | -2.25 | 22.27 | 168.66 | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 636332 | 24@0 | DFT_256QAM | 22.7  | -2.25 | 20.45 | 110.92 | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 636332 | 12@6 | DFT_256QAM | 22.73 | -2.25 | 20.48 | 111.69 | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 636332 | 1@1  | DFT_256QAM | 22.67 | -2.25 | 20.42 | 110.15 | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 636332 | 1@22 | DFT_256QAM | 22.66 | -2.25 | 20.41 | 109.9  | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 636332 | 24@0 | CP_QPSK    | 24.16 | -2.25 | 21.91 | 155.24 | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 636332 | 12@6 | CP_QPSK    | 25.73 | -2.25 | 23.48 | 222.84 | 1000 | PASS |



|            |    |    |        |      |            |       |       |       |        |      |      |
|------------|----|----|--------|------|------------|-------|-------|-------|--------|------|------|
| DC_5A_n78A | 30 | 10 | 636332 | 1@1  | CP_QPSK    | 25.69 | -2.25 | 23.44 | 220.8  | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 636332 | 1@22 | CP_QPSK    | 25.65 | -2.25 | 23.4  | 218.78 | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 636332 | 24@0 | CP_16QAM   | 24.22 | -2.25 | 21.97 | 157.4  | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 636332 | 12@6 | CP_16QAM   | 25.17 | -2.25 | 22.92 | 195.88 | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 636332 | 1@1  | CP_16QAM   | 25.3  | -2.25 | 23.05 | 201.84 | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 636332 | 1@22 | CP_16QAM   | 25.23 | -2.25 | 22.98 | 198.61 | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 636332 | 24@0 | CP_64QAM   | 23.69 | -2.25 | 21.44 | 139.32 | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 636332 | 12@6 | CP_64QAM   | 23.72 | -2.25 | 21.47 | 140.28 | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 636332 | 1@1  | CP_64QAM   | 23.9  | -2.25 | 21.65 | 146.22 | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 636332 | 1@22 | CP_64QAM   | 23.86 | -2.25 | 21.61 | 144.88 | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 636332 | 24@0 | CP_256QAM  | 20.84 | -2.25 | 18.59 | 72.28  | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 636332 | 12@6 | CP_256QAM  | 20.89 | -2.25 | 18.64 | 73.11  | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 636332 | 1@1  | CP_256QAM  | 20.88 | -2.25 | 18.63 | 72.95  | 1000 | PASS |
| DC_5A_n78A | 30 | 10 | 636332 | 1@22 | CP_256QAM  | 20.83 | -2.25 | 18.58 | 72.11  | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 630500 | 36@0 | DFT_BPSK   | 27.17 | -2.25 | 24.92 | 310.46 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 630500 | 18@9 | DFT_BPSK   | 27.64 | -2.25 | 25.39 | 345.94 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 630500 | 1@1  | DFT_BPSK   | 27.56 | -2.25 | 25.31 | 339.63 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 630500 | 1@36 | DFT_BPSK   | 27.51 | -2.25 | 25.26 | 335.74 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 630500 | 36@0 | DFT_QPSK   | 26.68 | -2.25 | 24.43 | 277.33 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 630500 | 18@9 | DFT_QPSK   | 27.65 | -2.25 | 25.4  | 346.74 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 630500 | 1@1  | DFT_QPSK   | 27.69 | -2.25 | 25.44 | 349.95 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 630500 | 1@36 | DFT_QPSK   | 27.64 | -2.25 | 25.39 | 345.94 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 630500 | 36@0 | DFT_16QAM  | 25.67 | -2.25 | 23.42 | 219.79 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 630500 | 18@9 | DFT_16QAM  | 26.68 | -2.25 | 24.43 | 277.33 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 630500 | 1@1  | DFT_16QAM  | 26.48 | -2.25 | 24.23 | 264.85 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 630500 | 1@36 | DFT_16QAM  | 26.46 | -2.25 | 24.21 | 263.63 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 630500 | 36@0 | DFT_64QAM  | 25.15 | -2.25 | 22.9  | 194.98 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 630500 | 18@9 | DFT_64QAM  | 25.16 | -2.25 | 22.91 | 195.43 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 630500 | 1@1  | DFT_64QAM  | 24.98 | -2.25 | 22.73 | 187.5  | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 630500 | 1@36 | DFT_64QAM  | 24.94 | -2.25 | 22.69 | 185.78 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 630500 | 36@0 | DFT_256QAM | 23.17 | -2.25 | 20.92 | 123.59 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 630500 | 18@9 | DFT_256QAM | 23.18 | -2.25 | 20.93 | 123.88 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 630500 | 1@1  | DFT_256QAM | 23.13 | -2.25 | 20.88 | 122.46 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 630500 | 1@36 | DFT_256QAM | 23.11 | -2.25 | 20.86 | 121.9  | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 630500 | 38@0 | CP_QPSK    | 24.7  | -2.25 | 22.45 | 175.79 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 630500 | 19@9 | CP_QPSK    | 26.14 | -2.25 | 23.89 | 244.91 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 630500 | 1@1  | CP_QPSK    | 26.14 | -2.25 | 23.89 | 244.91 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 630500 | 1@36 | CP_QPSK    | 26.08 | -2.25 | 23.83 | 241.55 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 630500 | 38@0 | CP_16QAM   | 24.73 | -2.25 | 22.48 | 177.01 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 630500 | 19@9 | CP_16QAM   | 25.69 | -2.25 | 23.44 | 220.8  | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 630500 | 1@1  | CP_16QAM   | 25.77 | -2.25 | 23.52 | 224.91 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 630500 | 1@36 | CP_16QAM   | 25.7  | -2.25 | 23.45 | 221.31 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 630500 | 38@0 | CP_64QAM   | 24.16 | -2.25 | 21.91 | 155.24 | 1000 | PASS |

|            |    |    |        |      |            |       |       |       |        |      |      |
|------------|----|----|--------|------|------------|-------|-------|-------|--------|------|------|
| DC_5A_n78A | 30 | 15 | 630500 | 19@9 | CP_64QAM   | 24.23 | -2.25 | 21.98 | 157.76 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 630500 | 1@1  | CP_64QAM   | 24.34 | -2.25 | 22.09 | 161.81 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 630500 | 1@36 | CP_64QAM   | 24.27 | -2.25 | 22.02 | 159.22 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 630500 | 38@0 | CP_256QAM  | 21.15 | -2.25 | 18.9  | 77.62  | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 630500 | 19@9 | CP_256QAM  | 21.03 | -2.25 | 18.78 | 75.51  | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 630500 | 1@1  | CP_256QAM  | 21.19 | -2.25 | 18.94 | 78.34  | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 630500 | 1@36 | CP_256QAM  | 21.16 | -2.25 | 18.91 | 77.8   | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 633334 | 36@0 | DFT_BPSK   | 27    | -2.25 | 24.75 | 298.54 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 633334 | 18@9 | DFT_BPSK   | 27.53 | -2.25 | 25.28 | 337.29 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 633334 | 1@1  | DFT_BPSK   | 27.43 | -2.25 | 25.18 | 329.61 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 633334 | 1@36 | DFT_BPSK   | 27.36 | -2.25 | 25.11 | 324.34 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 633334 | 36@0 | DFT_QPSK   | 26.53 | -2.25 | 24.28 | 267.92 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 633334 | 18@9 | DFT_QPSK   | 27.54 | -2.25 | 25.29 | 338.06 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 633334 | 1@1  | DFT_QPSK   | 27.52 | -2.25 | 25.27 | 336.51 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 633334 | 1@36 | DFT_QPSK   | 27.44 | -2.25 | 25.19 | 330.37 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 633334 | 36@0 | DFT_16QAM  | 25.5  | -2.25 | 23.25 | 211.35 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 633334 | 18@9 | DFT_16QAM  | 26.57 | -2.25 | 24.32 | 270.4  | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 633334 | 1@1  | DFT_16QAM  | 26.32 | -2.25 | 24.07 | 255.27 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 633334 | 1@36 | DFT_16QAM  | 26.29 | -2.25 | 24.04 | 253.51 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 633334 | 36@0 | DFT_64QAM  | 25    | -2.25 | 22.75 | 188.36 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 633334 | 18@9 | DFT_64QAM  | 25.02 | -2.25 | 22.77 | 189.23 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 633334 | 1@1  | DFT_64QAM  | 24.82 | -2.25 | 22.57 | 180.72 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 633334 | 1@36 | DFT_64QAM  | 24.75 | -2.25 | 22.5  | 177.83 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 633334 | 36@0 | DFT_256QAM | 22.99 | -2.25 | 20.74 | 118.58 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 633334 | 18@9 | DFT_256QAM | 23.03 | -2.25 | 20.78 | 119.67 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 633334 | 1@1  | DFT_256QAM | 22.99 | -2.25 | 20.74 | 118.58 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 633334 | 1@36 | DFT_256QAM | 22.89 | -2.25 | 20.64 | 115.88 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 633334 | 38@0 | CP_QPSK    | 24.52 | -2.25 | 22.27 | 168.66 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 633334 | 19@9 | CP_QPSK    | 26.02 | -2.25 | 23.77 | 238.23 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 633334 | 1@1  | CP_QPSK    | 26    | -2.25 | 23.75 | 237.14 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 633334 | 1@36 | CP_QPSK    | 25.88 | -2.25 | 23.63 | 230.67 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 633334 | 38@0 | CP_16QAM   | 24.56 | -2.25 | 22.31 | 170.22 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 633334 | 19@9 | CP_16QAM   | 25.47 | -2.25 | 23.22 | 209.89 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 633334 | 1@1  | CP_16QAM   | 25.58 | -2.25 | 23.33 | 215.28 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 633334 | 1@36 | CP_16QAM   | 25.53 | -2.25 | 23.28 | 212.81 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 633334 | 38@0 | CP_64QAM   | 24.02 | -2.25 | 21.77 | 150.31 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 633334 | 19@9 | CP_64QAM   | 24.07 | -2.25 | 21.82 | 152.05 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 633334 | 1@1  | CP_64QAM   | 24.13 | -2.25 | 21.88 | 154.17 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 633334 | 1@36 | CP_64QAM   | 24.12 | -2.25 | 21.87 | 153.82 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 633334 | 38@0 | CP_256QAM  | 20.98 | -2.25 | 18.73 | 74.64  | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 633334 | 19@9 | CP_256QAM  | 20.94 | -2.25 | 18.69 | 73.96  | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 633334 | 1@1  | CP_256QAM  | 20.92 | -2.25 | 18.67 | 73.62  | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 633334 | 1@36 | CP_256QAM  | 20.85 | -2.25 | 18.6  | 72.44  | 1000 | PASS |

|            |    |    |        |       |            |       |       |       |        |      |      |
|------------|----|----|--------|-------|------------|-------|-------|-------|--------|------|------|
| DC_5A_n78A | 30 | 15 | 636166 | 36@0  | DFT_BPSK   | 26.77 | -2.25 | 24.52 | 283.14 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 636166 | 18@9  | DFT_BPSK   | 27.26 | -2.25 | 25.01 | 316.96 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 636166 | 1@1   | DFT_BPSK   | 27.21 | -2.25 | 24.96 | 313.33 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 636166 | 1@36  | DFT_BPSK   | 27.12 | -2.25 | 24.87 | 306.9  | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 636166 | 36@0  | DFT_QPSK   | 26.29 | -2.25 | 24.04 | 253.51 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 636166 | 18@9  | DFT_QPSK   | 27.31 | -2.25 | 25.06 | 320.63 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 636166 | 1@1   | DFT_QPSK   | 27.27 | -2.25 | 25.02 | 317.69 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 636166 | 1@36  | DFT_QPSK   | 27.17 | -2.25 | 24.92 | 310.46 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 636166 | 36@0  | DFT_16QAM  | 25.26 | -2.25 | 23.01 | 199.99 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 636166 | 18@9  | DFT_16QAM  | 26.32 | -2.25 | 24.07 | 255.27 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 636166 | 1@1   | DFT_16QAM  | 26.1  | -2.25 | 23.85 | 242.66 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 636166 | 1@36  | DFT_16QAM  | 26.03 | -2.25 | 23.78 | 238.78 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 636166 | 36@0  | DFT_64QAM  | 24.74 | -2.25 | 22.49 | 177.42 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 636166 | 18@9  | DFT_64QAM  | 24.81 | -2.25 | 22.56 | 180.3  | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 636166 | 1@1   | DFT_64QAM  | 24.57 | -2.25 | 22.32 | 170.61 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 636166 | 1@36  | DFT_64QAM  | 24.49 | -2.25 | 22.24 | 167.49 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 636166 | 36@0  | DFT_256QAM | 22.78 | -2.25 | 20.53 | 112.98 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 636166 | 18@9  | DFT_256QAM | 22.73 | -2.25 | 20.48 | 111.69 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 636166 | 1@1   | DFT_256QAM | 22.7  | -2.25 | 20.45 | 110.92 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 636166 | 1@36  | DFT_256QAM | 22.64 | -2.25 | 20.39 | 109.4  | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 636166 | 38@0  | CP_QPSK    | 24.25 | -2.25 | 22    | 158.49 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 636166 | 19@9  | CP_QPSK    | 25.79 | -2.25 | 23.54 | 225.94 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 636166 | 1@1   | CP_QPSK    | 25.76 | -2.25 | 23.51 | 224.39 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 636166 | 1@36  | CP_QPSK    | 25.72 | -2.25 | 23.47 | 222.33 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 636166 | 38@0  | CP_16QAM   | 24.33 | -2.25 | 22.08 | 161.44 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 636166 | 19@9  | CP_16QAM   | 25.29 | -2.25 | 23.04 | 201.37 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 636166 | 1@1   | CP_16QAM   | 25.33 | -2.25 | 23.08 | 203.24 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 636166 | 1@36  | CP_16QAM   | 25.25 | -2.25 | 23    | 199.53 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 636166 | 38@0  | CP_64QAM   | 23.72 | -2.25 | 21.47 | 140.28 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 636166 | 19@9  | CP_64QAM   | 23.84 | -2.25 | 21.59 | 144.21 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 636166 | 1@1   | CP_64QAM   | 23.96 | -2.25 | 21.71 | 148.25 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 636166 | 1@36  | CP_64QAM   | 23.84 | -2.25 | 21.59 | 144.21 | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 636166 | 38@0  | CP_256QAM  | 20.86 | -2.25 | 18.61 | 72.61  | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 636166 | 19@9  | CP_256QAM  | 20.79 | -2.25 | 18.54 | 71.45  | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 636166 | 1@1   | CP_256QAM  | 20.99 | -2.25 | 18.74 | 74.82  | 1000 | PASS |
| DC_5A_n78A | 30 | 15 | 636166 | 1@36  | CP_256QAM  | 20.9  | -2.25 | 18.65 | 73.28  | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 630668 | 50@0  | DFT_BPSK   | 27.24 | -2.25 | 24.99 | 315.5  | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 630668 | 25@12 | DFT_BPSK   | 27.72 | -2.25 | 25.47 | 352.37 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 630668 | 1@1   | DFT_BPSK   | 27.59 | -2.25 | 25.34 | 341.98 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 630668 | 1@49  | DFT_BPSK   | 27.55 | -2.25 | 25.3  | 338.84 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 630668 | 50@0  | DFT_QPSK   | 26.78 | -2.25 | 24.53 | 283.79 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 630668 | 25@12 | DFT_QPSK   | 27.76 | -2.25 | 25.51 | 355.63 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 630668 | 1@1   | DFT_QPSK   | 27.67 | -2.25 | 25.42 | 348.34 | 1000 | PASS |

|            |    |    |        |       |            |       |       |       |        |      |      |
|------------|----|----|--------|-------|------------|-------|-------|-------|--------|------|------|
| DC_5A_n78A | 30 | 20 | 630668 | 1@49  | DFT_QPSK   | 27.66 | -2.25 | 25.41 | 347.54 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 630668 | 50@0  | DFT_16QAM  | 25.77 | -2.25 | 23.52 | 224.91 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 630668 | 25@12 | DFT_16QAM  | 26.76 | -2.25 | 24.51 | 282.49 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 630668 | 1@1   | DFT_16QAM  | 26.51 | -2.25 | 24.26 | 266.69 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 630668 | 1@49  | DFT_16QAM  | 26.47 | -2.25 | 24.22 | 264.24 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 630668 | 50@0  | DFT_64QAM  | 25.24 | -2.25 | 22.99 | 199.07 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 630668 | 25@12 | DFT_64QAM  | 25.25 | -2.25 | 23    | 199.53 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 630668 | 1@1   | DFT_64QAM  | 25.01 | -2.25 | 22.76 | 188.8  | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 630668 | 1@49  | DFT_64QAM  | 24.96 | -2.25 | 22.71 | 186.64 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 630668 | 50@0  | DFT_256QAM | 23.21 | -2.25 | 20.96 | 124.74 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 630668 | 25@12 | DFT_256QAM | 23.22 | -2.25 | 20.97 | 125.03 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 630668 | 1@1   | DFT_256QAM | 23.13 | -2.25 | 20.88 | 122.46 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 630668 | 1@49  | DFT_256QAM | 23.09 | -2.25 | 20.84 | 121.34 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 630668 | 51@0  | CP_QPSK    | 24.74 | -2.25 | 22.49 | 177.42 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 630668 | 25@12 | CP_QPSK    | 26.23 | -2.25 | 23.98 | 250.03 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 630668 | 1@1   | CP_QPSK    | 26.15 | -2.25 | 23.9  | 245.47 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 630668 | 1@49  | CP_QPSK    | 26.08 | -2.25 | 23.83 | 241.55 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 630668 | 51@0  | CP_16QAM   | 24.72 | -2.25 | 22.47 | 176.6  | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 630668 | 25@12 | CP_16QAM   | 25.72 | -2.25 | 23.47 | 222.33 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 630668 | 1@1   | CP_16QAM   | 25.75 | -2.25 | 23.5  | 223.87 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 630668 | 1@49  | CP_16QAM   | 25.72 | -2.25 | 23.47 | 222.33 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 630668 | 51@0  | CP_64QAM   | 24.18 | -2.25 | 21.93 | 155.96 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 630668 | 25@12 | CP_64QAM   | 24.19 | -2.25 | 21.94 | 156.31 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 630668 | 1@1   | CP_64QAM   | 24.37 | -2.25 | 22.12 | 162.93 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 630668 | 1@49  | CP_64QAM   | 24.28 | -2.25 | 22.03 | 159.59 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 630668 | 51@0  | CP_256QAM  | 21.13 | -2.25 | 18.88 | 77.27  | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 630668 | 25@12 | CP_256QAM  | 21.16 | -2.25 | 18.91 | 77.8   | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 630668 | 1@1   | CP_256QAM  | 21.2  | -2.25 | 18.95 | 78.52  | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 630668 | 1@49  | CP_256QAM  | 21.14 | -2.25 | 18.89 | 77.45  | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 633334 | 50@0  | DFT_BPSK   | 27.06 | -2.25 | 24.81 | 302.69 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 633334 | 25@12 | DFT_BPSK   | 27.58 | -2.25 | 25.33 | 341.19 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 633334 | 1@1   | DFT_BPSK   | 27.47 | -2.25 | 25.22 | 332.66 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 633334 | 1@49  | DFT_BPSK   | 27.36 | -2.25 | 25.11 | 324.34 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 633334 | 50@0  | DFT_QPSK   | 26.56 | -2.25 | 24.31 | 269.77 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 633334 | 25@12 | DFT_QPSK   | 27.59 | -2.25 | 25.34 | 341.98 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 633334 | 1@1   | DFT_QPSK   | 27.52 | -2.25 | 25.27 | 336.51 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 633334 | 1@49  | DFT_QPSK   | 27.42 | -2.25 | 25.17 | 328.85 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 633334 | 50@0  | DFT_16QAM  | 25.54 | -2.25 | 23.29 | 213.3  | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 633334 | 25@12 | DFT_16QAM  | 26.57 | -2.25 | 24.32 | 270.4  | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 633334 | 1@1   | DFT_16QAM  | 26.31 | -2.25 | 24.06 | 254.68 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 633334 | 1@49  | DFT_16QAM  | 26.19 | -2.25 | 23.94 | 247.74 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 633334 | 50@0  | DFT_64QAM  | 25.05 | -2.25 | 22.8  | 190.55 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 633334 | 25@12 | DFT_64QAM  | 25.09 | -2.25 | 22.84 | 192.31 | 1000 | PASS |

|            |    |    |        |       |            |       |       |       |        |      |      |
|------------|----|----|--------|-------|------------|-------|-------|-------|--------|------|------|
| DC_5A_n78A | 30 | 20 | 633334 | 1@1   | DFT_64QAM  | 24.82 | -2.25 | 22.57 | 180.72 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 633334 | 1@49  | DFT_64QAM  | 24.71 | -2.25 | 22.46 | 176.2  | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 633334 | 50@0  | DFT_256QAM | 22.97 | -2.25 | 20.72 | 118.03 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 633334 | 25@12 | DFT_256QAM | 23.07 | -2.25 | 20.82 | 120.78 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 633334 | 1@1   | DFT_256QAM | 23.01 | -2.25 | 20.76 | 119.12 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 633334 | 1@49  | DFT_256QAM | 22.88 | -2.25 | 20.63 | 115.61 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 633334 | 51@0  | CP_QPSK    | 24.52 | -2.25 | 22.27 | 168.66 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 633334 | 25@12 | CP_QPSK    | 26.08 | -2.25 | 23.83 | 241.55 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 633334 | 1@1   | CP_QPSK    | 25.98 | -2.25 | 23.73 | 236.05 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 633334 | 1@49  | CP_QPSK    | 25.88 | -2.25 | 23.63 | 230.67 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 633334 | 51@0  | CP_16QAM   | 24.53 | -2.25 | 22.28 | 169.04 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 633334 | 25@12 | CP_16QAM   | 25.53 | -2.25 | 23.28 | 212.81 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 633334 | 1@1   | CP_16QAM   | 25.61 | -2.25 | 23.36 | 216.77 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 633334 | 1@49  | CP_16QAM   | 25.5  | -2.25 | 23.25 | 211.35 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 633334 | 51@0  | CP_64QAM   | 23.97 | -2.25 | 21.72 | 148.59 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 633334 | 25@12 | CP_64QAM   | 24.03 | -2.25 | 21.78 | 150.66 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 633334 | 1@1   | CP_64QAM   | 24.21 | -2.25 | 21.96 | 157.04 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 633334 | 1@49  | CP_64QAM   | 24.08 | -2.25 | 21.83 | 152.41 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 633334 | 51@0  | CP_256QAM  | 20.98 | -2.25 | 18.73 | 74.64  | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 633334 | 25@12 | CP_256QAM  | 21.02 | -2.25 | 18.77 | 75.34  | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 633334 | 1@1   | CP_256QAM  | 21.08 | -2.25 | 18.83 | 76.38  | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 633334 | 1@49  | CP_256QAM  | 20.91 | -2.25 | 18.66 | 73.45  | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 636000 | 50@0  | DFT_BPSK   | 26.8  | -2.25 | 24.55 | 285.1  | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 636000 | 25@12 | DFT_BPSK   | 27.35 | -2.25 | 25.1  | 323.59 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 636000 | 1@1   | DFT_BPSK   | 27.28 | -2.25 | 25.03 | 318.42 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 636000 | 1@49  | DFT_BPSK   | 27.12 | -2.25 | 24.87 | 306.9  | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 636000 | 50@0  | DFT_QPSK   | 26.33 | -2.25 | 24.08 | 255.86 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 636000 | 25@12 | DFT_QPSK   | 27.36 | -2.25 | 25.11 | 324.34 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 636000 | 1@1   | DFT_QPSK   | 27.34 | -2.25 | 25.09 | 322.85 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 636000 | 1@49  | DFT_QPSK   | 27.17 | -2.25 | 24.92 | 310.46 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 636000 | 50@0  | DFT_16QAM  | 25.35 | -2.25 | 23.1  | 204.17 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 636000 | 25@12 | DFT_16QAM  | 26.42 | -2.25 | 24.17 | 261.22 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 636000 | 1@1   | DFT_16QAM  | 26.22 | -2.25 | 23.97 | 249.46 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 636000 | 1@49  | DFT_16QAM  | 26.01 | -2.25 | 23.76 | 237.68 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 636000 | 50@0  | DFT_64QAM  | 24.84 | -2.25 | 22.59 | 181.55 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 636000 | 25@12 | DFT_64QAM  | 24.88 | -2.25 | 22.63 | 183.23 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 636000 | 1@1   | DFT_64QAM  | 24.68 | -2.25 | 22.43 | 174.98 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 636000 | 1@49  | DFT_64QAM  | 24.48 | -2.25 | 22.23 | 167.11 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 636000 | 50@0  | DFT_256QAM | 22.79 | -2.25 | 20.54 | 113.24 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 636000 | 25@12 | DFT_256QAM | 22.86 | -2.25 | 20.61 | 115.08 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 636000 | 1@1   | DFT_256QAM | 22.82 | -2.25 | 20.57 | 114.02 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 636000 | 1@49  | DFT_256QAM | 22.65 | -2.25 | 20.4  | 109.65 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 636000 | 51@0  | CP_QPSK    | 24.3  | -2.25 | 22.05 | 160.32 | 1000 | PASS |



|            |    |    |        |       |            |       |       |       |        |      |      |
|------------|----|----|--------|-------|------------|-------|-------|-------|--------|------|------|
| DC_5A_n78A | 30 | 20 | 636000 | 25@12 | CP_QPSK    | 25.84 | -2.25 | 23.59 | 228.56 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 636000 | 1@1   | CP_QPSK    | 25.79 | -2.25 | 23.54 | 225.94 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 636000 | 1@49  | CP_QPSK    | 25.67 | -2.25 | 23.42 | 219.79 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 636000 | 51@0  | CP_16QAM   | 24.34 | -2.25 | 22.09 | 161.81 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 636000 | 25@12 | CP_16QAM   | 25.31 | -2.25 | 23.06 | 202.3  | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 636000 | 1@1   | CP_16QAM   | 25.39 | -2.25 | 23.14 | 206.06 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 636000 | 1@49  | CP_16QAM   | 25.25 | -2.25 | 23    | 199.53 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 636000 | 51@0  | CP_64QAM   | 23.79 | -2.25 | 21.54 | 142.56 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 636000 | 25@12 | CP_64QAM   | 23.84 | -2.25 | 21.59 | 144.21 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 636000 | 1@1   | CP_64QAM   | 24.02 | -2.25 | 21.77 | 150.31 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 636000 | 1@49  | CP_64QAM   | 23.78 | -2.25 | 21.53 | 142.23 | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 636000 | 51@0  | CP_256QAM  | 20.88 | -2.25 | 18.63 | 72.95  | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 636000 | 25@12 | CP_256QAM  | 20.98 | -2.25 | 18.73 | 74.64  | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 636000 | 1@1   | CP_256QAM  | 21.01 | -2.25 | 18.76 | 75.16  | 1000 | PASS |
| DC_5A_n78A | 30 | 20 | 636000 | 1@49  | CP_256QAM  | 20.82 | -2.25 | 18.57 | 71.94  | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 631334 | 100@0 | DFT_BPSK   | 27.12 | -2.25 | 24.87 | 306.9  | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 631334 | 50@25 | DFT_BPSK   | 27.73 | -2.25 | 25.48 | 353.18 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 631334 | 1@1   | DFT_BPSK   | 27.22 | -2.25 | 24.97 | 314.05 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 631334 | 1@104 | DFT_BPSK   | 27.18 | -2.25 | 24.93 | 311.17 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 631334 | 100@0 | DFT_QPSK   | 26.66 | -2.25 | 24.41 | 276.06 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 631334 | 50@25 | DFT_QPSK   | 27.71 | -2.25 | 25.46 | 351.56 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 631334 | 1@1   | DFT_QPSK   | 27.31 | -2.25 | 25.06 | 320.63 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 631334 | 1@104 | DFT_QPSK   | 27.25 | -2.25 | 25    | 316.23 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 631334 | 100@0 | DFT_16QAM  | 25.69 | -2.25 | 23.44 | 220.8  | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 631334 | 50@25 | DFT_16QAM  | 26.76 | -2.25 | 24.51 | 282.49 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 631334 | 1@1   | DFT_16QAM  | 26.11 | -2.25 | 23.86 | 243.22 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 631334 | 1@104 | DFT_16QAM  | 26.04 | -2.25 | 23.79 | 239.33 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 631334 | 100@0 | DFT_64QAM  | 25.14 | -2.25 | 22.89 | 194.54 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 631334 | 50@25 | DFT_64QAM  | 25.25 | -2.25 | 23    | 199.53 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 631334 | 1@1   | DFT_64QAM  | 24.6  | -2.25 | 22.35 | 171.79 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 631334 | 1@104 | DFT_64QAM  | 24.56 | -2.25 | 22.31 | 170.22 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 631334 | 100@0 | DFT_256QAM | 23.1  | -2.25 | 20.85 | 121.62 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 631334 | 50@25 | DFT_256QAM | 23.19 | -2.25 | 20.94 | 124.17 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 631334 | 1@1   | DFT_256QAM | 22.8  | -2.25 | 20.55 | 113.5  | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 631334 | 1@104 | DFT_256QAM | 22.73 | -2.25 | 20.48 | 111.69 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 631334 | 106@0 | CP_QPSK    | 24.66 | -2.25 | 22.41 | 174.18 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 631334 | 53@26 | CP_QPSK    | 26.17 | -2.25 | 23.92 | 246.6  | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 631334 | 1@1   | CP_QPSK    | 25.73 | -2.25 | 23.48 | 222.84 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 631334 | 1@104 | CP_QPSK    | 25.73 | -2.25 | 23.48 | 222.84 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 631334 | 106@0 | CP_16QAM   | 24.61 | -2.25 | 22.36 | 172.19 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 631334 | 53@26 | CP_16QAM   | 25.72 | -2.25 | 23.47 | 222.33 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 631334 | 1@1   | CP_16QAM   | 25.36 | -2.25 | 23.11 | 204.64 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 631334 | 1@104 | CP_16QAM   | 25.35 | -2.25 | 23.1  | 204.17 | 1000 | PASS |

|            |    |    |        |       |            |       |       |       |        |      |      |
|------------|----|----|--------|-------|------------|-------|-------|-------|--------|------|------|
| DC_5A_n78A | 30 | 40 | 631334 | 106@0 | CP_64QAM   | 24.12 | -2.25 | 21.87 | 153.82 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 631334 | 53@26 | CP_64QAM   | 24.17 | -2.25 | 21.92 | 155.6  | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 631334 | 1@1   | CP_64QAM   | 23.99 | -2.25 | 21.74 | 149.28 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 631334 | 1@104 | CP_64QAM   | 23.97 | -2.25 | 21.72 | 148.59 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 631334 | 106@0 | CP_256QAM  | 21.09 | -2.25 | 18.84 | 76.56  | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 631334 | 53@26 | CP_256QAM  | 21.21 | -2.25 | 18.96 | 78.7   | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 631334 | 1@1   | CP_256QAM  | 20.88 | -2.25 | 18.63 | 72.95  | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 631334 | 1@104 | CP_256QAM  | 20.83 | -2.25 | 18.58 | 72.11  | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 633334 | 100@0 | DFT_BPSK   | 26.99 | -2.25 | 24.74 | 297.85 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 633334 | 50@25 | DFT_BPSK   | 27.54 | -2.25 | 25.29 | 338.06 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 633334 | 1@1   | DFT_BPSK   | 27.19 | -2.25 | 24.94 | 311.89 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 633334 | 1@104 | DFT_BPSK   | 26.89 | -2.25 | 24.64 | 291.07 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 633334 | 100@0 | DFT_QPSK   | 26.48 | -2.25 | 24.23 | 264.85 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 633334 | 50@25 | DFT_QPSK   | 27.55 | -2.25 | 25.3  | 338.84 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 633334 | 1@1   | DFT_QPSK   | 27.24 | -2.25 | 24.99 | 315.5  | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 633334 | 1@104 | DFT_QPSK   | 26.91 | -2.25 | 24.66 | 292.42 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 633334 | 100@0 | DFT_16QAM  | 25.55 | -2.25 | 23.3  | 213.8  | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 633334 | 50@25 | DFT_16QAM  | 26.55 | -2.25 | 24.3  | 269.15 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 633334 | 1@1   | DFT_16QAM  | 26.06 | -2.25 | 23.81 | 240.44 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 633334 | 1@104 | DFT_16QAM  | 25.74 | -2.25 | 23.49 | 223.36 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 633334 | 100@0 | DFT_64QAM  | 24.99 | -2.25 | 22.74 | 187.93 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 633334 | 50@25 | DFT_64QAM  | 25.05 | -2.25 | 22.8  | 190.55 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 633334 | 1@1   | DFT_64QAM  | 24.52 | -2.25 | 22.27 | 168.66 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 633334 | 1@104 | DFT_64QAM  | 24.23 | -2.25 | 21.98 | 157.76 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 633334 | 100@0 | DFT_256QAM | 22.97 | -2.25 | 20.72 | 118.03 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 633334 | 50@25 | DFT_256QAM | 23    | -2.25 | 20.75 | 118.85 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 633334 | 1@1   | DFT_256QAM | 22.73 | -2.25 | 20.48 | 111.69 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 633334 | 1@104 | DFT_256QAM | 22.43 | -2.25 | 20.18 | 104.23 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 633334 | 106@0 | CP_QPSK    | 24.43 | -2.25 | 22.18 | 165.2  | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 633334 | 53@26 | CP_QPSK    | 26.04 | -2.25 | 23.79 | 239.33 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 633334 | 1@1   | CP_QPSK    | 25.76 | -2.25 | 23.51 | 224.39 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 633334 | 1@104 | CP_QPSK    | 25.47 | -2.25 | 23.22 | 209.89 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 633334 | 106@0 | CP_16QAM   | 24.44 | -2.25 | 22.19 | 165.58 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 633334 | 53@26 | CP_16QAM   | 25.55 | -2.25 | 23.3  | 213.8  | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 633334 | 1@1   | CP_16QAM   | 25.37 | -2.25 | 23.12 | 205.12 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 633334 | 1@104 | CP_16QAM   | 25.07 | -2.25 | 22.82 | 191.43 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 633334 | 106@0 | CP_64QAM   | 23.89 | -2.25 | 21.64 | 145.88 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 633334 | 53@26 | CP_64QAM   | 23.97 | -2.25 | 21.72 | 148.59 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 633334 | 1@1   | CP_64QAM   | 23.96 | -2.25 | 21.71 | 148.25 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 633334 | 1@104 | CP_64QAM   | 23.64 | -2.25 | 21.39 | 137.72 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 633334 | 106@0 | CP_256QAM  | 21.07 | -2.25 | 18.82 | 76.21  | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 633334 | 53@26 | CP_256QAM  | 21.12 | -2.25 | 18.87 | 77.09  | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 633334 | 1@1   | CP_256QAM  | 20.76 | -2.25 | 18.51 | 70.96  | 1000 | PASS |

|            |    |    |        |       |            |       |       |       |        |      |      |
|------------|----|----|--------|-------|------------|-------|-------|-------|--------|------|------|
| DC_5A_n78A | 30 | 40 | 633334 | 1@104 | CP_256QAM  | 20.57 | -2.25 | 18.32 | 67.92  | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 635332 | 100@0 | DFT_BPSK   | 26.67 | -2.25 | 24.42 | 276.69 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 635332 | 50@25 | DFT_BPSK   | 27.3  | -2.25 | 25.05 | 319.89 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 635332 | 1@1   | DFT_BPSK   | 26.87 | -2.25 | 24.62 | 289.73 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 635332 | 1@104 | DFT_BPSK   | 26.57 | -2.25 | 24.32 | 270.4  | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 635332 | 100@0 | DFT_QPSK   | 26.19 | -2.25 | 23.94 | 247.74 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 635332 | 50@25 | DFT_QPSK   | 27.35 | -2.25 | 25.1  | 323.59 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 635332 | 1@1   | DFT_QPSK   | 26.96 | -2.25 | 24.71 | 295.8  | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 635332 | 1@104 | DFT_QPSK   | 26.59 | -2.25 | 24.34 | 271.64 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 635332 | 100@0 | DFT_16QAM  | 25.18 | -2.25 | 22.93 | 196.34 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 635332 | 50@25 | DFT_16QAM  | 26.32 | -2.25 | 24.07 | 255.27 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 635332 | 1@1   | DFT_16QAM  | 25.75 | -2.25 | 23.5  | 223.87 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 635332 | 1@104 | DFT_16QAM  | 25.44 | -2.25 | 23.19 | 208.45 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 635332 | 100@0 | DFT_64QAM  | 24.65 | -2.25 | 22.4  | 173.78 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 635332 | 50@25 | DFT_64QAM  | 24.83 | -2.25 | 22.58 | 181.13 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 635332 | 1@1   | DFT_64QAM  | 24.31 | -2.25 | 22.06 | 160.69 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 635332 | 1@104 | DFT_64QAM  | 23.93 | -2.25 | 21.68 | 147.23 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 635332 | 100@0 | DFT_256QAM | 22.62 | -2.25 | 20.37 | 108.89 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 635332 | 50@25 | DFT_256QAM | 22.78 | -2.25 | 20.53 | 112.98 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 635332 | 1@1   | DFT_256QAM | 22.41 | -2.25 | 20.16 | 103.75 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 635332 | 1@104 | DFT_256QAM | 22.08 | -2.25 | 19.83 | 96.16  | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 635332 | 106@0 | CP_QPSK    | 24.18 | -2.25 | 21.93 | 155.96 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 635332 | 53@26 | CP_QPSK    | 25.72 | -2.25 | 23.47 | 222.33 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 635332 | 1@1   | CP_QPSK    | 25.43 | -2.25 | 23.18 | 207.97 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 635332 | 1@104 | CP_QPSK    | 25.14 | -2.25 | 22.89 | 194.54 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 635332 | 106@0 | CP_16QAM   | 24.13 | -2.25 | 21.88 | 154.17 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 635332 | 53@26 | CP_16QAM   | 25.26 | -2.25 | 23.01 | 199.99 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 635332 | 1@1   | CP_16QAM   | 25.04 | -2.25 | 22.79 | 190.11 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 635332 | 1@104 | CP_16QAM   | 24.7  | -2.25 | 22.45 | 175.79 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 635332 | 106@0 | CP_64QAM   | 23.63 | -2.25 | 21.38 | 137.4  | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 635332 | 53@26 | CP_64QAM   | 23.75 | -2.25 | 21.5  | 141.25 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 635332 | 1@1   | CP_64QAM   | 23.67 | -2.25 | 21.42 | 138.68 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 635332 | 1@104 | CP_64QAM   | 23.38 | -2.25 | 21.13 | 129.72 | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 635332 | 106@0 | CP_256QAM  | 20.74 | -2.25 | 18.49 | 70.63  | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 635332 | 53@26 | CP_256QAM  | 20.88 | -2.25 | 18.63 | 72.95  | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 635332 | 1@1   | CP_256QAM  | 20.65 | -2.25 | 18.4  | 69.18  | 1000 | PASS |
| DC_5A_n78A | 30 | 40 | 635332 | 1@104 | CP_256QAM  | 20.31 | -2.25 | 18.06 | 63.97  | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 631668 | 128@0 | DFT_BPSK   | 27.13 | -2.25 | 24.88 | 307.61 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 631668 | 64@32 | DFT_BPSK   | 27.75 | -2.25 | 25.5  | 354.81 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 631668 | 1@1   | DFT_BPSK   | 27.4  | -2.25 | 25.15 | 327.34 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 631668 | 1@131 | DFT_BPSK   | 27.3  | -2.25 | 25.05 | 319.89 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 631668 | 128@0 | DFT_QPSK   | 26.65 | -2.25 | 24.4  | 275.42 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 631668 | 64@32 | DFT_QPSK   | 27.78 | -2.25 | 25.53 | 357.27 | 1000 | PASS |

|            |    |    |        |       |            |       |       |       |        |      |      |
|------------|----|----|--------|-------|------------|-------|-------|-------|--------|------|------|
| DC_5A_n78A | 30 | 50 | 631668 | 1@1   | DFT_QPSK   | 27.5  | -2.25 | 25.25 | 334.97 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 631668 | 1@131 | DFT_QPSK   | 27.34 | -2.25 | 25.09 | 322.85 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 631668 | 128@0 | DFT_16QAM  | 25.7  | -2.25 | 23.45 | 221.31 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 631668 | 64@32 | DFT_16QAM  | 26.78 | -2.25 | 24.53 | 283.79 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 631668 | 1@1   | DFT_16QAM  | 26.25 | -2.25 | 24    | 251.19 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 631668 | 1@131 | DFT_16QAM  | 26.14 | -2.25 | 23.89 | 244.91 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 631668 | 128@0 | DFT_64QAM  | 25.17 | -2.25 | 22.92 | 195.88 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 631668 | 64@32 | DFT_64QAM  | 25.24 | -2.25 | 22.99 | 199.07 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 631668 | 1@1   | DFT_64QAM  | 24.75 | -2.25 | 22.5  | 177.83 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 631668 | 1@131 | DFT_64QAM  | 24.64 | -2.25 | 22.39 | 173.38 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 631668 | 128@0 | DFT_256QAM | 23.11 | -2.25 | 20.86 | 121.9  | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 631668 | 64@32 | DFT_256QAM | 23.23 | -2.25 | 20.98 | 125.31 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 631668 | 1@1   | DFT_256QAM | 22.97 | -2.25 | 20.72 | 118.03 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 631668 | 1@131 | DFT_256QAM | 22.86 | -2.25 | 20.61 | 115.08 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 631668 | 133@0 | CP_QPSK    | 24.66 | -2.25 | 22.41 | 174.18 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 631668 | 67@33 | CP_QPSK    | 26.2  | -2.25 | 23.95 | 248.31 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 631668 | 1@1   | CP_QPSK    | 25.95 | -2.25 | 23.7  | 234.42 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 631668 | 1@131 | CP_QPSK    | 25.84 | -2.25 | 23.59 | 228.56 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 631668 | 133@0 | CP_16QAM   | 24.63 | -2.25 | 22.38 | 172.98 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 631668 | 67@33 | CP_16QAM   | 25.71 | -2.25 | 23.46 | 221.82 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 631668 | 1@1   | CP_16QAM   | 25.59 | -2.25 | 23.34 | 215.77 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 631668 | 1@131 | CP_16QAM   | 25.47 | -2.25 | 23.22 | 209.89 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 631668 | 133@0 | CP_64QAM   | 24.16 | -2.25 | 21.91 | 155.24 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 631668 | 67@33 | CP_64QAM   | 24.23 | -2.25 | 21.98 | 157.76 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 631668 | 1@1   | CP_64QAM   | 24.14 | -2.25 | 21.89 | 154.53 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 631668 | 1@131 | CP_64QAM   | 24.01 | -2.25 | 21.76 | 149.97 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 631668 | 133@0 | CP_256QAM  | 21.07 | -2.25 | 18.82 | 76.21  | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 631668 | 67@33 | CP_256QAM  | 21.17 | -2.25 | 18.92 | 77.98  | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 631668 | 1@1   | CP_256QAM  | 21.04 | -2.25 | 18.79 | 75.68  | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 631668 | 1@131 | CP_256QAM  | 20.87 | -2.25 | 18.62 | 72.78  | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 633334 | 128@0 | DFT_BPSK   | 27.04 | -2.25 | 24.79 | 301.3  | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 633334 | 64@32 | DFT_BPSK   | 27.61 | -2.25 | 25.36 | 343.56 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 633334 | 1@1   | DFT_BPSK   | 27.52 | -2.25 | 25.27 | 336.51 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 633334 | 1@131 | DFT_BPSK   | 27.14 | -2.25 | 24.89 | 308.32 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 633334 | 128@0 | DFT_QPSK   | 26.56 | -2.25 | 24.31 | 269.77 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 633334 | 64@32 | DFT_QPSK   | 27.64 | -2.25 | 25.39 | 345.94 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 633334 | 1@1   | DFT_QPSK   | 27.56 | -2.25 | 25.31 | 339.63 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 633334 | 1@131 | DFT_QPSK   | 27.19 | -2.25 | 24.94 | 311.89 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 633334 | 128@0 | DFT_16QAM  | 25.57 | -2.25 | 23.32 | 214.78 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 633334 | 64@32 | DFT_16QAM  | 26.64 | -2.25 | 24.39 | 274.79 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 633334 | 1@1   | DFT_16QAM  | 26.39 | -2.25 | 24.14 | 259.42 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 633334 | 1@131 | DFT_16QAM  | 26    | -2.25 | 23.75 | 237.14 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 633334 | 128@0 | DFT_64QAM  | 25.07 | -2.25 | 22.82 | 191.43 | 1000 | PASS |

|            |    |    |        |       |            |       |       |       |        |      |      |
|------------|----|----|--------|-------|------------|-------|-------|-------|--------|------|------|
| DC_5A_n78A | 30 | 50 | 633334 | 64@32 | DFT_64QAM  | 25.16 | -2.25 | 22.91 | 195.43 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 633334 | 1@1   | DFT_64QAM  | 24.9  | -2.25 | 22.65 | 184.08 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 633334 | 1@131 | DFT_64QAM  | 24.51 | -2.25 | 22.26 | 168.27 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 633334 | 128@0 | DFT_256QAM | 22.99 | -2.25 | 20.74 | 118.58 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 633334 | 64@32 | DFT_256QAM | 23.14 | -2.25 | 20.89 | 122.74 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 633334 | 1@1   | DFT_256QAM | 23.04 | -2.25 | 20.79 | 119.95 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 633334 | 1@131 | DFT_256QAM | 22.66 | -2.25 | 20.41 | 109.9  | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 633334 | 133@0 | CP_QPSK    | 24.54 | -2.25 | 22.29 | 169.43 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 633334 | 67@33 | CP_QPSK    | 26.09 | -2.25 | 23.84 | 242.1  | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 633334 | 1@1   | CP_QPSK    | 26.11 | -2.25 | 23.86 | 243.22 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 633334 | 1@131 | CP_QPSK    | 25.7  | -2.25 | 23.45 | 221.31 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 633334 | 133@0 | CP_16QAM   | 24.55 | -2.25 | 22.3  | 169.82 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 633334 | 67@33 | CP_16QAM   | 25.56 | -2.25 | 23.31 | 214.29 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 633334 | 1@1   | CP_16QAM   | 25.69 | -2.25 | 23.44 | 220.8  | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 633334 | 1@131 | CP_16QAM   | 25.29 | -2.25 | 23.04 | 201.37 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 633334 | 133@0 | CP_64QAM   | 24.09 | -2.25 | 21.84 | 152.76 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 633334 | 67@33 | CP_64QAM   | 24.09 | -2.25 | 21.84 | 152.76 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 633334 | 1@1   | CP_64QAM   | 24.27 | -2.25 | 22.02 | 159.22 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 633334 | 1@131 | CP_64QAM   | 23.88 | -2.25 | 21.63 | 145.55 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 633334 | 133@0 | CP_256QAM  | 21.16 | -2.25 | 18.91 | 77.8   | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 633334 | 67@33 | CP_256QAM  | 21.15 | -2.25 | 18.9  | 77.62  | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 633334 | 1@1   | CP_256QAM  | 21.12 | -2.25 | 18.87 | 77.09  | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 633334 | 1@131 | CP_256QAM  | 20.97 | -2.25 | 18.72 | 74.47  | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 635000 | 128@0 | DFT_BPSK   | 26.78 | -2.25 | 24.53 | 283.79 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 635000 | 64@32 | DFT_BPSK   | 27.36 | -2.25 | 25.11 | 324.34 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 635000 | 1@1   | DFT_BPSK   | 27.22 | -2.25 | 24.97 | 314.05 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 635000 | 1@131 | DFT_BPSK   | 26.82 | -2.25 | 24.57 | 286.42 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 635000 | 128@0 | DFT_QPSK   | 26.3  | -2.25 | 24.05 | 254.1  | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 635000 | 64@32 | DFT_QPSK   | 27.36 | -2.25 | 25.11 | 324.34 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 635000 | 1@1   | DFT_QPSK   | 27.25 | -2.25 | 25    | 316.23 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 635000 | 1@131 | DFT_QPSK   | 26.88 | -2.25 | 24.63 | 290.4  | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 635000 | 128@0 | DFT_16QAM  | 25.32 | -2.25 | 23.07 | 202.77 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 635000 | 64@32 | DFT_16QAM  | 26.41 | -2.25 | 24.16 | 260.62 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 635000 | 1@1   | DFT_16QAM  | 26.03 | -2.25 | 23.78 | 238.78 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 635000 | 1@131 | DFT_16QAM  | 25.69 | -2.25 | 23.44 | 220.8  | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 635000 | 128@0 | DFT_64QAM  | 24.79 | -2.25 | 22.54 | 179.47 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 635000 | 64@32 | DFT_64QAM  | 24.85 | -2.25 | 22.6  | 181.97 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 635000 | 1@1   | DFT_64QAM  | 24.52 | -2.25 | 22.27 | 168.66 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 635000 | 1@131 | DFT_64QAM  | 24.18 | -2.25 | 21.93 | 155.96 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 635000 | 128@0 | DFT_256QAM | 22.74 | -2.25 | 20.49 | 111.94 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 635000 | 64@32 | DFT_256QAM | 22.88 | -2.25 | 20.63 | 115.61 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 635000 | 1@1   | DFT_256QAM | 22.77 | -2.25 | 20.52 | 112.72 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 635000 | 1@131 | DFT_256QAM | 22.36 | -2.25 | 20.11 | 102.57 | 1000 | PASS |



|            |    |    |        |       |            |       |       |       |        |      |      |
|------------|----|----|--------|-------|------------|-------|-------|-------|--------|------|------|
| DC_5A_n78A | 30 | 50 | 635000 | 133@0 | CP_QPSK    | 24.27 | -2.25 | 22.02 | 159.22 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 635000 | 67@33 | CP_QPSK    | 25.81 | -2.25 | 23.56 | 226.99 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 635000 | 1@1   | CP_QPSK    | 25.75 | -2.25 | 23.5  | 223.87 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 635000 | 1@131 | CP_QPSK    | 25.39 | -2.25 | 23.14 | 206.06 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 635000 | 133@0 | CP_16QAM   | 24.26 | -2.25 | 22.01 | 158.85 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 635000 | 67@33 | CP_16QAM   | 25.31 | -2.25 | 23.06 | 202.3  | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 635000 | 1@1   | CP_16QAM   | 25.39 | -2.25 | 23.14 | 206.06 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 635000 | 1@131 | CP_16QAM   | 25    | -2.25 | 22.75 | 188.36 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 635000 | 133@0 | CP_64QAM   | 23.79 | -2.25 | 21.54 | 142.56 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 635000 | 67@33 | CP_64QAM   | 23.8  | -2.25 | 21.55 | 142.89 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 635000 | 1@1   | CP_64QAM   | 23.96 | -2.25 | 21.71 | 148.25 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 635000 | 1@131 | CP_64QAM   | 23.58 | -2.25 | 21.33 | 135.83 | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 635000 | 133@0 | CP_256QAM  | 20.85 | -2.25 | 18.6  | 72.44  | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 635000 | 67@33 | CP_256QAM  | 20.92 | -2.25 | 18.67 | 73.62  | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 635000 | 1@1   | CP_256QAM  | 20.88 | -2.25 | 18.63 | 72.95  | 1000 | PASS |
| DC_5A_n78A | 30 | 50 | 635000 | 1@131 | CP_256QAM  | 20.55 | -2.25 | 18.3  | 67.61  | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 632000 | 162@0 | DFT_BPSK   | 27.11 | -2.25 | 24.86 | 306.2  | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 632000 | 81@40 | DFT_BPSK   | 27.78 | -2.25 | 25.53 | 357.27 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 632000 | 1@1   | DFT_BPSK   | 27.39 | -2.25 | 25.14 | 326.59 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 632000 | 1@160 | DFT_BPSK   | 27.06 | -2.25 | 24.81 | 302.69 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 632000 | 162@0 | DFT_QPSK   | 26.62 | -2.25 | 24.37 | 273.53 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 632000 | 81@40 | DFT_QPSK   | 27.76 | -2.25 | 25.51 | 355.63 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 632000 | 1@1   | DFT_QPSK   | 27.44 | -2.25 | 25.19 | 330.37 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 632000 | 1@160 | DFT_QPSK   | 27.08 | -2.25 | 24.83 | 304.09 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 632000 | 162@0 | DFT_16QAM  | 25.64 | -2.25 | 23.39 | 218.27 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 632000 | 81@40 | DFT_16QAM  | 26.78 | -2.25 | 24.53 | 283.79 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 632000 | 1@1   | DFT_16QAM  | 26.25 | -2.25 | 24    | 251.19 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 632000 | 1@160 | DFT_16QAM  | 25.96 | -2.25 | 23.71 | 234.96 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 632000 | 162@0 | DFT_64QAM  | 25.1  | -2.25 | 22.85 | 192.75 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 632000 | 81@40 | DFT_64QAM  | 25.24 | -2.25 | 22.99 | 199.07 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 632000 | 1@1   | DFT_64QAM  | 24.74 | -2.25 | 22.49 | 177.42 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 632000 | 1@160 | DFT_64QAM  | 24.44 | -2.25 | 22.19 | 165.58 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 632000 | 162@0 | DFT_256QAM | 23.1  | -2.25 | 20.85 | 121.62 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 632000 | 81@40 | DFT_256QAM | 23.25 | -2.25 | 21    | 125.89 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 632000 | 1@1   | DFT_256QAM | 23.02 | -2.25 | 20.77 | 119.4  | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 632000 | 1@160 | DFT_256QAM | 22.68 | -2.25 | 20.43 | 110.41 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 632000 | 162@0 | CP_QPSK    | 24.55 | -2.25 | 22.3  | 169.82 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 632000 | 81@40 | CP_QPSK    | 26.23 | -2.25 | 23.98 | 250.03 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 632000 | 1@1   | CP_QPSK    | 25.94 | -2.25 | 23.69 | 233.88 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 632000 | 1@160 | CP_QPSK    | 25.64 | -2.25 | 23.39 | 218.27 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 632000 | 162@0 | CP_16QAM   | 24.64 | -2.25 | 22.39 | 173.38 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 632000 | 81@40 | CP_16QAM   | 25.75 | -2.25 | 23.5  | 223.87 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 632000 | 1@1   | CP_16QAM   | 25.5  | -2.25 | 23.25 | 211.35 | 1000 | PASS |

|            |    |    |        |       |            |       |       |       |        |      |      |
|------------|----|----|--------|-------|------------|-------|-------|-------|--------|------|------|
| DC_5A_n78A | 30 | 60 | 632000 | 1@160 | CP_16QAM   | 25.23 | -2.25 | 22.98 | 198.61 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 632000 | 162@0 | CP_64QAM   | 24.11 | -2.25 | 21.86 | 153.46 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 632000 | 81@40 | CP_64QAM   | 24.25 | -2.25 | 22    | 158.49 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 632000 | 1@1   | CP_64QAM   | 24.17 | -2.25 | 21.92 | 155.6  | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 632000 | 1@160 | CP_64QAM   | 23.86 | -2.25 | 21.61 | 144.88 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 632000 | 162@0 | CP_256QAM  | 21.08 | -2.25 | 18.83 | 76.38  | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 632000 | 81@40 | CP_256QAM  | 21.19 | -2.25 | 18.94 | 78.34  | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 632000 | 1@1   | CP_256QAM  | 21.01 | -2.25 | 18.76 | 75.16  | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 632000 | 1@160 | CP_256QAM  | 20.89 | -2.25 | 18.64 | 73.11  | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 633334 | 162@0 | DFT_BPSK   | 27.03 | -2.25 | 24.78 | 300.61 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 633334 | 81@40 | DFT_BPSK   | 27.61 | -2.25 | 25.36 | 343.56 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 633334 | 1@1   | DFT_BPSK   | 27.36 | -2.25 | 25.11 | 324.34 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 633334 | 1@160 | DFT_BPSK   | 26.95 | -2.25 | 24.7  | 295.12 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 633334 | 162@0 | DFT_QPSK   | 26.5  | -2.25 | 24.25 | 266.07 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 633334 | 81@40 | DFT_QPSK   | 27.61 | -2.25 | 25.36 | 343.56 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 633334 | 1@1   | DFT_QPSK   | 27.43 | -2.25 | 25.18 | 329.61 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 633334 | 1@160 | DFT_QPSK   | 26.99 | -2.25 | 24.74 | 297.85 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 633334 | 162@0 | DFT_16QAM  | 25.53 | -2.25 | 23.28 | 212.81 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 633334 | 81@40 | DFT_16QAM  | 26.65 | -2.25 | 24.4  | 275.42 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 633334 | 1@1   | DFT_16QAM  | 26.25 | -2.25 | 24    | 251.19 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 633334 | 1@160 | DFT_16QAM  | 25.84 | -2.25 | 23.59 | 228.56 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 633334 | 162@0 | DFT_64QAM  | 25.04 | -2.25 | 22.79 | 190.11 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 633334 | 81@40 | DFT_64QAM  | 25.1  | -2.25 | 22.85 | 192.75 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 633334 | 1@1   | DFT_64QAM  | 24.74 | -2.25 | 22.49 | 177.42 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 633334 | 1@160 | DFT_64QAM  | 24.28 | -2.25 | 22.03 | 159.59 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 633334 | 162@0 | DFT_256QAM | 22.96 | -2.25 | 20.71 | 117.76 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 633334 | 81@40 | DFT_256QAM | 23.05 | -2.25 | 20.8  | 120.23 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 633334 | 1@1   | DFT_256QAM | 22.9  | -2.25 | 20.65 | 116.14 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 633334 | 1@160 | DFT_256QAM | 22.5  | -2.25 | 20.25 | 105.93 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 633334 | 162@0 | CP_QPSK    | 24.49 | -2.25 | 22.24 | 167.49 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 633334 | 81@40 | CP_QPSK    | 26.07 | -2.25 | 23.82 | 240.99 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 633334 | 1@1   | CP_QPSK    | 25.95 | -2.25 | 23.7  | 234.42 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 633334 | 1@160 | CP_QPSK    | 25.53 | -2.25 | 23.28 | 212.81 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 633334 | 162@0 | CP_16QAM   | 24.49 | -2.25 | 22.24 | 167.49 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 633334 | 81@40 | CP_16QAM   | 25.6  | -2.25 | 23.35 | 216.27 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 633334 | 1@1   | CP_16QAM   | 25.58 | -2.25 | 23.33 | 215.28 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 633334 | 1@160 | CP_16QAM   | 25.18 | -2.25 | 22.93 | 196.34 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 633334 | 162@0 | CP_64QAM   | 24    | -2.25 | 21.75 | 149.62 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 633334 | 81@40 | CP_64QAM   | 24.07 | -2.25 | 21.82 | 152.05 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 633334 | 1@1   | CP_64QAM   | 24.1  | -2.25 | 21.85 | 153.11 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 633334 | 1@160 | CP_64QAM   | 23.74 | -2.25 | 21.49 | 140.93 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 633334 | 162@0 | CP_256QAM  | 21.08 | -2.25 | 18.83 | 76.38  | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 633334 | 81@40 | CP_256QAM  | 21.17 | -2.25 | 18.92 | 77.98  | 1000 | PASS |

|            |    |    |        |       |            |       |       |       |        |      |      |
|------------|----|----|--------|-------|------------|-------|-------|-------|--------|------|------|
| DC_5A_n78A | 30 | 60 | 633334 | 1@1   | CP_256QAM  | 20.96 | -2.25 | 18.71 | 74.3   | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 633334 | 1@160 | CP_256QAM  | 20.76 | -2.25 | 18.51 | 70.96  | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 634666 | 162@0 | DFT_BPSK   | 26.84 | -2.25 | 24.59 | 287.74 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 634666 | 81@40 | DFT_BPSK   | 27.42 | -2.25 | 25.17 | 328.85 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 634666 | 1@1   | DFT_BPSK   | 27.27 | -2.25 | 25.02 | 317.69 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 634666 | 1@160 | DFT_BPSK   | 26.75 | -2.25 | 24.5  | 281.84 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 634666 | 162@0 | DFT_QPSK   | 26.36 | -2.25 | 24.11 | 257.63 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 634666 | 81@40 | DFT_QPSK   | 27.47 | -2.25 | 25.22 | 332.66 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 634666 | 1@1   | DFT_QPSK   | 27.36 | -2.25 | 25.11 | 324.34 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 634666 | 1@160 | DFT_QPSK   | 26.74 | -2.25 | 24.49 | 281.19 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 634666 | 162@0 | DFT_16QAM  | 25.36 | -2.25 | 23.11 | 204.64 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 634666 | 81@40 | DFT_16QAM  | 26.5  | -2.25 | 24.25 | 266.07 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 634666 | 1@1   | DFT_16QAM  | 26.15 | -2.25 | 23.9  | 245.47 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 634666 | 1@160 | DFT_16QAM  | 25.62 | -2.25 | 23.37 | 217.27 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 634666 | 162@0 | DFT_64QAM  | 24.84 | -2.25 | 22.59 | 181.55 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 634666 | 81@40 | DFT_64QAM  | 24.95 | -2.25 | 22.7  | 186.21 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 634666 | 1@1   | DFT_64QAM  | 24.68 | -2.25 | 22.43 | 174.98 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 634666 | 1@160 | DFT_64QAM  | 24.07 | -2.25 | 21.82 | 152.05 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 634666 | 162@0 | DFT_256QAM | 22.79 | -2.25 | 20.54 | 113.24 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 634666 | 81@40 | DFT_256QAM | 22.98 | -2.25 | 20.73 | 118.3  | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 634666 | 1@1   | DFT_256QAM | 22.83 | -2.25 | 20.58 | 114.29 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 634666 | 1@160 | DFT_256QAM | 22.27 | -2.25 | 20.02 | 100.46 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 634666 | 162@0 | CP_QPSK    | 24.33 | -2.25 | 22.08 | 161.44 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 634666 | 81@40 | CP_QPSK    | 25.92 | -2.25 | 23.67 | 232.81 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 634666 | 1@1   | CP_QPSK    | 25.84 | -2.25 | 23.59 | 228.56 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 634666 | 1@160 | CP_QPSK    | 25.29 | -2.25 | 23.04 | 201.37 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 634666 | 162@0 | CP_16QAM   | 24.36 | -2.25 | 22.11 | 162.55 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 634666 | 81@40 | CP_16QAM   | 25.46 | -2.25 | 23.21 | 209.41 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 634666 | 1@1   | CP_16QAM   | 25.47 | -2.25 | 23.22 | 209.89 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 634666 | 1@160 | CP_16QAM   | 24.87 | -2.25 | 22.62 | 182.81 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 634666 | 162@0 | CP_64QAM   | 23.84 | -2.25 | 21.59 | 144.21 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 634666 | 81@40 | CP_64QAM   | 23.95 | -2.25 | 21.7  | 147.91 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 634666 | 1@1   | CP_64QAM   | 24.03 | -2.25 | 21.78 | 150.66 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 634666 | 1@160 | CP_64QAM   | 23.47 | -2.25 | 21.22 | 132.43 | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 634666 | 162@0 | CP_256QAM  | 20.92 | -2.25 | 18.67 | 73.62  | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 634666 | 81@40 | CP_256QAM  | 21.07 | -2.25 | 18.82 | 76.21  | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 634666 | 1@1   | CP_256QAM  | 20.85 | -2.25 | 18.6  | 72.44  | 1000 | PASS |
| DC_5A_n78A | 30 | 60 | 634666 | 1@160 | CP_256QAM  | 20.49 | -2.25 | 18.24 | 66.68  | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 632334 | 180@0 | DFT_BPSK   | 27.04 | -2.25 | 24.79 | 301.3  | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 632334 | 90@45 | DFT_BPSK   | 27.69 | -2.25 | 25.44 | 349.95 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 632334 | 1@1   | DFT_BPSK   | 27.19 | -2.25 | 24.94 | 311.89 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 632334 | 1@187 | DFT_BPSK   | 26.87 | -2.25 | 24.62 | 289.73 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 632334 | 180@0 | DFT_QPSK   | 26.56 | -2.25 | 24.31 | 269.77 | 1000 | PASS |

|            |    |    |        |       |            |       |       |       |        |      |      |
|------------|----|----|--------|-------|------------|-------|-------|-------|--------|------|------|
| DC_5A_n78A | 30 | 70 | 632334 | 90@45 | DFT_QPSK   | 27.72 | -2.25 | 25.47 | 352.37 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 632334 | 1@1   | DFT_QPSK   | 27.24 | -2.25 | 24.99 | 315.5  | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 632334 | 1@187 | DFT_QPSK   | 26.95 | -2.25 | 24.7  | 295.12 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 632334 | 180@0 | DFT_16QAM  | 25.57 | -2.25 | 23.32 | 214.78 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 632334 | 90@45 | DFT_16QAM  | 26.72 | -2.25 | 24.47 | 279.9  | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 632334 | 1@1   | DFT_16QAM  | 26.06 | -2.25 | 23.81 | 240.44 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 632334 | 1@187 | DFT_16QAM  | 25.79 | -2.25 | 23.54 | 225.94 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 632334 | 180@0 | DFT_64QAM  | 25.07 | -2.25 | 22.82 | 191.43 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 632334 | 90@45 | DFT_64QAM  | 25.25 | -2.25 | 23    | 199.53 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 632334 | 1@1   | DFT_64QAM  | 24.6  | -2.25 | 22.35 | 171.79 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 632334 | 1@187 | DFT_64QAM  | 24.25 | -2.25 | 22    | 158.49 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 632334 | 180@0 | DFT_256QAM | 23.05 | -2.25 | 20.8  | 120.23 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 632334 | 90@45 | DFT_256QAM | 23.14 | -2.25 | 20.89 | 122.74 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 632334 | 1@1   | DFT_256QAM | 22.7  | -2.25 | 20.45 | 110.92 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 632334 | 1@187 | DFT_256QAM | 22.46 | -2.25 | 20.21 | 104.95 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 632334 | 189@0 | CP_QPSK    | 24.48 | -2.25 | 22.23 | 167.11 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 632334 | 95@47 | CP_QPSK    | 26.22 | -2.25 | 23.97 | 249.46 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 632334 | 1@1   | CP_QPSK    | 25.72 | -2.25 | 23.47 | 222.33 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 632334 | 1@187 | CP_QPSK    | 25.48 | -2.25 | 23.23 | 210.38 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 632334 | 189@0 | CP_16QAM   | 24.48 | -2.25 | 22.23 | 167.11 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 632334 | 95@47 | CP_16QAM   | 25.74 | -2.25 | 23.49 | 223.36 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 632334 | 1@1   | CP_16QAM   | 25.38 | -2.25 | 23.13 | 205.59 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 632334 | 1@187 | CP_16QAM   | 25.14 | -2.25 | 22.89 | 194.54 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 632334 | 189@0 | CP_64QAM   | 24.02 | -2.25 | 21.77 | 150.31 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 632334 | 95@47 | CP_64QAM   | 24.14 | -2.25 | 21.89 | 154.53 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 632334 | 1@1   | CP_64QAM   | 23.91 | -2.25 | 21.66 | 146.55 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 632334 | 1@187 | CP_64QAM   | 23.66 | -2.25 | 21.41 | 138.36 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 632334 | 189@0 | CP_256QAM  | 20.94 | -2.25 | 18.69 | 73.96  | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 632334 | 95@47 | CP_256QAM  | 21.14 | -2.25 | 18.89 | 77.45  | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 632334 | 1@1   | CP_256QAM  | 20.75 | -2.25 | 18.5  | 70.79  | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 632334 | 1@187 | CP_256QAM  | 20.78 | -2.25 | 18.53 | 71.29  | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 633334 | 180@0 | DFT_BPSK   | 27.02 | -2.25 | 24.77 | 299.92 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 633334 | 90@45 | DFT_BPSK   | 27.62 | -2.25 | 25.37 | 344.35 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 633334 | 1@1   | DFT_BPSK   | 27.18 | -2.25 | 24.93 | 311.17 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 633334 | 1@187 | DFT_BPSK   | 26.78 | -2.25 | 24.53 | 283.79 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 633334 | 180@0 | DFT_QPSK   | 26.52 | -2.25 | 24.27 | 267.3  | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 633334 | 90@45 | DFT_QPSK   | 27.64 | -2.25 | 25.39 | 345.94 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 633334 | 1@1   | DFT_QPSK   | 27.31 | -2.25 | 25.06 | 320.63 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 633334 | 1@187 | DFT_QPSK   | 26.89 | -2.25 | 24.64 | 291.07 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 633334 | 180@0 | DFT_16QAM  | 25.54 | -2.25 | 23.29 | 213.3  | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 633334 | 90@45 | DFT_16QAM  | 26.65 | -2.25 | 24.4  | 275.42 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 633334 | 1@1   | DFT_16QAM  | 26.06 | -2.25 | 23.81 | 240.44 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 633334 | 1@187 | DFT_16QAM  | 25.64 | -2.25 | 23.39 | 218.27 | 1000 | PASS |

|            |    |    |        |       |            |       |       |       |        |      |      |
|------------|----|----|--------|-------|------------|-------|-------|-------|--------|------|------|
| DC_5A_n78A | 30 | 70 | 633334 | 180@0 | DFT_64QAM  | 25.03 | -2.25 | 22.78 | 189.67 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 633334 | 90@45 | DFT_64QAM  | 25.14 | -2.25 | 22.89 | 194.54 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 633334 | 1@1   | DFT_64QAM  | 24.54 | -2.25 | 22.29 | 169.43 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 633334 | 1@187 | DFT_64QAM  | 24.09 | -2.25 | 21.84 | 152.76 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 633334 | 180@0 | DFT_256QAM | 23.04 | -2.25 | 20.79 | 119.95 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 633334 | 90@45 | DFT_256QAM | 23.09 | -2.25 | 20.84 | 121.34 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 633334 | 1@1   | DFT_256QAM | 22.67 | -2.25 | 20.42 | 110.15 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 633334 | 1@187 | DFT_256QAM | 22.27 | -2.25 | 20.02 | 100.46 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 633334 | 189@0 | CP_QPSK    | 24.48 | -2.25 | 22.23 | 167.11 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 633334 | 95@47 | CP_QPSK    | 26.11 | -2.25 | 23.86 | 243.22 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 633334 | 1@1   | CP_QPSK    | 25.76 | -2.25 | 23.51 | 224.39 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 633334 | 1@187 | CP_QPSK    | 25.33 | -2.25 | 23.08 | 203.24 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 633334 | 189@0 | CP_16QAM   | 24.43 | -2.25 | 22.18 | 165.2  | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 633334 | 95@47 | CP_16QAM   | 25.64 | -2.25 | 23.39 | 218.27 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 633334 | 1@1   | CP_16QAM   | 25.4  | -2.25 | 23.15 | 206.54 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 633334 | 1@187 | CP_16QAM   | 24.97 | -2.25 | 22.72 | 187.07 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 633334 | 189@0 | CP_64QAM   | 24    | -2.25 | 21.75 | 149.62 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 633334 | 95@47 | CP_64QAM   | 24.08 | -2.25 | 21.83 | 152.41 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 633334 | 1@1   | CP_64QAM   | 23.96 | -2.25 | 21.71 | 148.25 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 633334 | 1@187 | CP_64QAM   | 23.51 | -2.25 | 21.26 | 133.66 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 633334 | 189@0 | CP_256QAM  | 20.98 | -2.25 | 18.73 | 74.64  | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 633334 | 95@47 | CP_256QAM  | 21.04 | -2.25 | 18.79 | 75.68  | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 633334 | 1@1   | CP_256QAM  | 20.79 | -2.25 | 18.54 | 71.45  | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 633334 | 1@187 | CP_256QAM  | 20.62 | -2.25 | 18.37 | 68.71  | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 634332 | 180@0 | DFT_BPSK   | 26.93 | -2.25 | 24.68 | 293.76 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 634332 | 90@45 | DFT_BPSK   | 27.54 | -2.25 | 25.29 | 338.06 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 634332 | 1@1   | DFT_BPSK   | 27.26 | -2.25 | 25.01 | 316.96 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 634332 | 1@187 | DFT_BPSK   | 26.62 | -2.25 | 24.37 | 273.53 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 634332 | 180@0 | DFT_QPSK   | 26.44 | -2.25 | 24.19 | 262.42 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 634332 | 90@45 | DFT_QPSK   | 27.56 | -2.25 | 25.31 | 339.63 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 634332 | 1@1   | DFT_QPSK   | 27.32 | -2.25 | 25.07 | 321.37 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 634332 | 1@187 | DFT_QPSK   | 26.69 | -2.25 | 24.44 | 277.97 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 634332 | 180@0 | DFT_16QAM  | 25.45 | -2.25 | 23.2  | 208.93 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 634332 | 90@45 | DFT_16QAM  | 26.57 | -2.25 | 24.32 | 270.4  | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 634332 | 1@1   | DFT_16QAM  | 26.16 | -2.25 | 23.91 | 246.04 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 634332 | 1@187 | DFT_16QAM  | 25.52 | -2.25 | 23.27 | 212.32 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 634332 | 180@0 | DFT_64QAM  | 24.95 | -2.25 | 22.7  | 186.21 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 634332 | 90@45 | DFT_64QAM  | 25.08 | -2.25 | 22.83 | 191.87 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 634332 | 1@1   | DFT_64QAM  | 24.61 | -2.25 | 22.36 | 172.19 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 634332 | 1@187 | DFT_64QAM  | 24.05 | -2.25 | 21.8  | 151.36 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 634332 | 180@0 | DFT_256QAM | 22.94 | -2.25 | 20.69 | 117.22 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 634332 | 90@45 | DFT_256QAM | 23.05 | -2.25 | 20.8  | 120.23 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 634332 | 1@1   | DFT_256QAM | 22.79 | -2.25 | 20.54 | 113.24 | 1000 | PASS |



|            |    |    |        |        |            |       |       |       |        |      |      |
|------------|----|----|--------|--------|------------|-------|-------|-------|--------|------|------|
| DC_5A_n78A | 30 | 70 | 634332 | 1@187  | DFT_256QAM | 22.14 | -2.25 | 19.89 | 97.5   | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 634332 | 189@0  | CP_QPSK    | 24.38 | -2.25 | 22.13 | 163.31 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 634332 | 95@47  | CP_QPSK    | 26.04 | -2.25 | 23.79 | 239.33 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 634332 | 1@1    | CP_QPSK    | 25.84 | -2.25 | 23.59 | 228.56 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 634332 | 1@187  | CP_QPSK    | 25.21 | -2.25 | 22.96 | 197.7  | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 634332 | 189@0  | CP_16QAM   | 24.4  | -2.25 | 22.15 | 164.06 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 634332 | 95@47  | CP_16QAM   | 25.54 | -2.25 | 23.29 | 213.3  | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 634332 | 1@1    | CP_16QAM   | 25.46 | -2.25 | 23.21 | 209.41 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 634332 | 1@187  | CP_16QAM   | 24.81 | -2.25 | 22.56 | 180.3  | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 634332 | 189@0  | CP_64QAM   | 23.89 | -2.25 | 21.64 | 145.88 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 634332 | 95@47  | CP_64QAM   | 24.01 | -2.25 | 21.76 | 149.97 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 634332 | 1@1    | CP_64QAM   | 24.03 | -2.25 | 21.78 | 150.66 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 634332 | 1@187  | CP_64QAM   | 23.42 | -2.25 | 21.17 | 130.92 | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 634332 | 189@0  | CP_256QAM  | 21.05 | -2.25 | 18.8  | 75.86  | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 634332 | 95@47  | CP_256QAM  | 21.09 | -2.25 | 18.84 | 76.56  | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 634332 | 1@1    | CP_256QAM  | 20.81 | -2.25 | 18.56 | 71.78  | 1000 | PASS |
| DC_5A_n78A | 30 | 70 | 634332 | 1@187  | CP_256QAM  | 20.47 | -2.25 | 18.22 | 66.37  | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 632668 | 216@0  | DFT_BPSK   | 27    | -2.25 | 24.75 | 298.54 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 632668 | 108@54 | DFT_BPSK   | 27.75 | -2.25 | 25.5  | 354.81 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 632668 | 1@1    | DFT_BPSK   | 27.11 | -2.25 | 24.86 | 306.2  | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 632668 | 1@215  | DFT_BPSK   | 26.71 | -2.25 | 24.46 | 279.25 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 632668 | 216@0  | DFT_QPSK   | 26.54 | -2.25 | 24.29 | 268.53 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 632668 | 108@54 | DFT_QPSK   | 27.74 | -2.25 | 25.49 | 354    | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 632668 | 1@1    | DFT_QPSK   | 27.15 | -2.25 | 24.9  | 309.03 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 632668 | 1@215  | DFT_QPSK   | 26.75 | -2.25 | 24.5  | 281.84 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 632668 | 216@0  | DFT_16QAM  | 25.53 | -2.25 | 23.28 | 212.81 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 632668 | 108@54 | DFT_16QAM  | 26.75 | -2.25 | 24.5  | 281.84 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 632668 | 1@1    | DFT_16QAM  | 25.97 | -2.25 | 23.72 | 235.5  | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 632668 | 1@215  | DFT_16QAM  | 25.55 | -2.25 | 23.3  | 213.8  | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 632668 | 216@0  | DFT_64QAM  | 25    | -2.25 | 22.75 | 188.36 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 632668 | 108@54 | DFT_64QAM  | 25.21 | -2.25 | 22.96 | 197.7  | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 632668 | 1@1    | DFT_64QAM  | 24.44 | -2.25 | 22.19 | 165.58 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 632668 | 1@215  | DFT_64QAM  | 24.06 | -2.25 | 21.81 | 151.71 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 632668 | 216@0  | DFT_256QAM | 23.01 | -2.25 | 20.76 | 119.12 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 632668 | 108@54 | DFT_256QAM | 23.22 | -2.25 | 20.97 | 125.03 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 632668 | 1@1    | DFT_256QAM | 22.65 | -2.25 | 20.4  | 109.65 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 632668 | 1@215  | DFT_256QAM | 22.25 | -2.25 | 20    | 100    | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 632668 | 217@0  | CP_QPSK    | 24.53 | -2.25 | 22.28 | 169.04 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 632668 | 109@54 | CP_QPSK    | 26.21 | -2.25 | 23.96 | 248.89 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 632668 | 1@1    | CP_QPSK    | 25.63 | -2.25 | 23.38 | 217.77 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 632668 | 1@215  | CP_QPSK    | 25.28 | -2.25 | 23.03 | 200.91 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 632668 | 217@0  | CP_16QAM   | 24.52 | -2.25 | 22.27 | 168.66 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 632668 | 109@54 | CP_16QAM   | 25.75 | -2.25 | 23.5  | 223.87 | 1000 | PASS |

|            |    |    |        |        |            |       |       |       |        |      |      |
|------------|----|----|--------|--------|------------|-------|-------|-------|--------|------|------|
| DC_5A_n78A | 30 | 80 | 632668 | 1@1    | CP_16QAM   | 25.26 | -2.25 | 23.01 | 199.99 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 632668 | 1@215  | CP_16QAM   | 24.9  | -2.25 | 22.65 | 184.08 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 632668 | 217@0  | CP_64QAM   | 23.99 | -2.25 | 21.74 | 149.28 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 632668 | 109@54 | CP_64QAM   | 24.18 | -2.25 | 21.93 | 155.96 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 632668 | 1@1    | CP_64QAM   | 23.83 | -2.25 | 21.58 | 143.88 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 632668 | 1@215  | CP_64QAM   | 23.4  | -2.25 | 21.15 | 130.32 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 632668 | 217@0  | CP_256QAM  | 20.95 | -2.25 | 18.7  | 74.13  | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 632668 | 109@54 | CP_256QAM  | 21.15 | -2.25 | 18.9  | 77.62  | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 632668 | 1@1    | CP_256QAM  | 20.62 | -2.25 | 18.37 | 68.71  | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 632668 | 1@215  | CP_256QAM  | 20.54 | -2.25 | 18.29 | 67.45  | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 633334 | 216@0  | DFT_BPSK   | 26.97 | -2.25 | 24.72 | 296.48 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 633334 | 108@54 | DFT_BPSK   | 27.64 | -2.25 | 25.39 | 345.94 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 633334 | 1@1    | DFT_BPSK   | 27.04 | -2.25 | 24.79 | 301.3  | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 633334 | 1@215  | DFT_BPSK   | 26.54 | -2.25 | 24.29 | 268.53 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 633334 | 216@0  | DFT_QPSK   | 26.45 | -2.25 | 24.2  | 263.03 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 633334 | 108@54 | DFT_QPSK   | 27.65 | -2.25 | 25.4  | 346.74 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 633334 | 1@1    | DFT_QPSK   | 27.12 | -2.25 | 24.87 | 306.9  | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 633334 | 1@215  | DFT_QPSK   | 26.61 | -2.25 | 24.36 | 272.9  | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 633334 | 216@0  | DFT_16QAM  | 25.48 | -2.25 | 23.23 | 210.38 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 633334 | 108@54 | DFT_16QAM  | 26.63 | -2.25 | 24.38 | 274.16 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 633334 | 1@1    | DFT_16QAM  | 25.89 | -2.25 | 23.64 | 231.21 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 633334 | 1@215  | DFT_16QAM  | 25.4  | -2.25 | 23.15 | 206.54 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 633334 | 216@0  | DFT_64QAM  | 24.95 | -2.25 | 22.7  | 186.21 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 633334 | 108@54 | DFT_64QAM  | 25.13 | -2.25 | 22.88 | 194.09 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 633334 | 1@1    | DFT_64QAM  | 24.37 | -2.25 | 22.12 | 162.93 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 633334 | 1@215  | DFT_64QAM  | 23.98 | -2.25 | 21.73 | 148.94 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 633334 | 216@0  | DFT_256QAM | 22.94 | -2.25 | 20.69 | 117.22 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 633334 | 108@54 | DFT_256QAM | 23.11 | -2.25 | 20.86 | 121.9  | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 633334 | 1@1    | DFT_256QAM | 22.59 | -2.25 | 20.34 | 108.14 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 633334 | 1@215  | DFT_256QAM | 22.09 | -2.25 | 19.84 | 96.38  | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 633334 | 217@0  | CP_QPSK    | 24.45 | -2.25 | 22.2  | 165.96 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 633334 | 109@54 | CP_QPSK    | 26.11 | -2.25 | 23.86 | 243.22 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 633334 | 1@1    | CP_QPSK    | 25.64 | -2.25 | 23.39 | 218.27 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 633334 | 1@215  | CP_QPSK    | 25.09 | -2.25 | 22.84 | 192.31 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 633334 | 217@0  | CP_16QAM   | 24.46 | -2.25 | 22.21 | 166.34 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 633334 | 109@54 | CP_16QAM   | 25.68 | -2.25 | 23.43 | 220.29 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 633334 | 1@1    | CP_16QAM   | 25.28 | -2.25 | 23.03 | 200.91 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 633334 | 1@215  | CP_16QAM   | 24.73 | -2.25 | 22.48 | 177.01 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 633334 | 217@0  | CP_64QAM   | 23.92 | -2.25 | 21.67 | 146.89 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 633334 | 109@54 | CP_64QAM   | 24.09 | -2.25 | 21.84 | 152.76 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 633334 | 1@1    | CP_64QAM   | 23.76 | -2.25 | 21.51 | 141.58 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 633334 | 1@215  | CP_64QAM   | 23.22 | -2.25 | 20.97 | 125.03 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 633334 | 217@0  | CP_256QAM  | 20.87 | -2.25 | 18.62 | 72.78  | 1000 | PASS |

|            |    |    |        |        |            |       |       |       |        |      |      |
|------------|----|----|--------|--------|------------|-------|-------|-------|--------|------|------|
| DC_5A_n78A | 30 | 80 | 633334 | 109@54 | CP_256QAM  | 21.1  | -2.25 | 18.85 | 76.74  | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 633334 | 1@1    | CP_256QAM  | 20.63 | -2.25 | 18.38 | 68.87  | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 633334 | 1@215  | CP_256QAM  | 20.38 | -2.25 | 18.13 | 65.01  | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 634000 | 216@0  | DFT_BPSK   | 26.87 | -2.25 | 24.62 | 289.73 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 634000 | 108@54 | DFT_BPSK   | 27.54 | -2.25 | 25.29 | 338.06 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 634000 | 1@1    | DFT_BPSK   | 27.1  | -2.25 | 24.85 | 305.49 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 634000 | 1@215  | DFT_BPSK   | 26.46 | -2.25 | 24.21 | 263.63 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 634000 | 216@0  | DFT_QPSK   | 26.39 | -2.25 | 24.14 | 259.42 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 634000 | 108@54 | DFT_QPSK   | 27.61 | -2.25 | 25.36 | 343.56 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 634000 | 1@1    | DFT_QPSK   | 27.2  | -2.25 | 24.95 | 312.61 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 634000 | 1@215  | DFT_QPSK   | 26.49 | -2.25 | 24.24 | 265.46 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 634000 | 216@0  | DFT_16QAM  | 25.39 | -2.25 | 23.14 | 206.06 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 634000 | 108@54 | DFT_16QAM  | 26.56 | -2.25 | 24.31 | 269.77 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 634000 | 1@1    | DFT_16QAM  | 25.99 | -2.25 | 23.74 | 236.59 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 634000 | 1@215  | DFT_16QAM  | 25.37 | -2.25 | 23.12 | 205.12 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 634000 | 216@0  | DFT_64QAM  | 24.9  | -2.25 | 22.65 | 184.08 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 634000 | 108@54 | DFT_64QAM  | 25.07 | -2.25 | 22.82 | 191.43 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 634000 | 1@1    | DFT_64QAM  | 24.42 | -2.25 | 22.17 | 164.82 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 634000 | 1@215  | DFT_64QAM  | 23.78 | -2.25 | 21.53 | 142.23 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 634000 | 216@0  | DFT_256QAM | 22.83 | -2.25 | 20.58 | 114.29 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 634000 | 108@54 | DFT_256QAM | 23.02 | -2.25 | 20.77 | 119.4  | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 634000 | 1@1    | DFT_256QAM | 22.6  | -2.25 | 20.35 | 108.39 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 634000 | 1@215  | DFT_256QAM | 21.94 | -2.25 | 19.69 | 93.11  | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 634000 | 217@0  | CP_QPSK    | 24.37 | -2.25 | 22.12 | 162.93 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 634000 | 109@54 | CP_QPSK    | 26.01 | -2.25 | 23.76 | 237.68 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 634000 | 1@1    | CP_QPSK    | 25.67 | -2.25 | 23.42 | 219.79 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 634000 | 1@215  | CP_QPSK    | 25.04 | -2.25 | 22.79 | 190.11 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 634000 | 217@0  | CP_16QAM   | 24.35 | -2.25 | 22.1  | 162.18 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 634000 | 109@54 | CP_16QAM   | 25.54 | -2.25 | 23.29 | 213.3  | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 634000 | 1@1    | CP_16QAM   | 25.23 | -2.25 | 22.98 | 198.61 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 634000 | 1@215  | CP_16QAM   | 24.57 | -2.25 | 22.32 | 170.61 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 634000 | 217@0  | CP_64QAM   | 23.86 | -2.25 | 21.61 | 144.88 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 634000 | 109@54 | CP_64QAM   | 24    | -2.25 | 21.75 | 149.62 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 634000 | 1@1    | CP_64QAM   | 23.8  | -2.25 | 21.55 | 142.89 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 634000 | 1@215  | CP_64QAM   | 23.17 | -2.25 | 20.92 | 123.59 | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 634000 | 217@0  | CP_256QAM  | 20.97 | -2.25 | 18.72 | 74.47  | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 634000 | 109@54 | CP_256QAM  | 21.11 | -2.25 | 18.86 | 76.91  | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 634000 | 1@1    | CP_256QAM  | 20.62 | -2.25 | 18.37 | 68.71  | 1000 | PASS |
| DC_5A_n78A | 30 | 80 | 634000 | 1@215  | CP_256QAM  | 20.36 | -2.25 | 18.11 | 64.71  | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633000 | 243@0  | DFT_BPSK   | 26.93 | -2.25 | 24.68 | 293.76 | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633000 | 120@60 | DFT_BPSK   | 27.64 | -2.25 | 25.39 | 345.94 | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633000 | 1@1    | DFT_BPSK   | 26.85 | -2.25 | 24.6  | 288.4  | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633000 | 1@243  | DFT_BPSK   | 26.38 | -2.25 | 24.13 | 258.82 | 1000 | PASS |

|            |    |    |        |        |            |       |       |       |        |      |      |
|------------|----|----|--------|--------|------------|-------|-------|-------|--------|------|------|
| DC_5A_n78A | 30 | 90 | 633000 | 243@0  | DFT_QPSK   | 26.4  | -2.25 | 24.15 | 260.02 | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633000 | 120@60 | DFT_QPSK   | 27.67 | -2.25 | 25.42 | 348.34 | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633000 | 1@1    | DFT_QPSK   | 26.99 | -2.25 | 24.74 | 297.85 | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633000 | 1@243  | DFT_QPSK   | 26.4  | -2.25 | 24.15 | 260.02 | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633000 | 243@0  | DFT_16QAM  | 25.43 | -2.25 | 23.18 | 207.97 | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633000 | 120@60 | DFT_16QAM  | 26.6  | -2.25 | 24.35 | 272.27 | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633000 | 1@1    | DFT_16QAM  | 25.76 | -2.25 | 23.51 | 224.39 | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633000 | 1@243  | DFT_16QAM  | 25.23 | -2.25 | 22.98 | 198.61 | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633000 | 243@0  | DFT_64QAM  | 24.88 | -2.25 | 22.63 | 183.23 | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633000 | 120@60 | DFT_64QAM  | 25.11 | -2.25 | 22.86 | 193.2  | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633000 | 1@1    | DFT_64QAM  | 24.22 | -2.25 | 21.97 | 157.4  | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633000 | 1@243  | DFT_64QAM  | 23.72 | -2.25 | 21.47 | 140.28 | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633000 | 243@0  | DFT_256QAM | 22.88 | -2.25 | 20.63 | 115.61 | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633000 | 120@60 | DFT_256QAM | 23.07 | -2.25 | 20.82 | 120.78 | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633000 | 1@1    | DFT_256QAM | 22.41 | -2.25 | 20.16 | 103.75 | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633000 | 1@243  | DFT_256QAM | 21.87 | -2.25 | 19.62 | 91.62  | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633000 | 245@0  | CP_QPSK    | 24.41 | -2.25 | 22.16 | 164.44 | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633000 | 123@61 | CP_QPSK    | 26.1  | -2.25 | 23.85 | 242.66 | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633000 | 1@1    | CP_QPSK    | 25.44 | -2.25 | 23.19 | 208.45 | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633000 | 1@243  | CP_QPSK    | 24.86 | -2.25 | 22.61 | 182.39 | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633000 | 245@0  | CP_16QAM   | 24.33 | -2.25 | 22.08 | 161.44 | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633000 | 123@61 | CP_16QAM   | 25.57 | -2.25 | 23.32 | 214.78 | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633000 | 1@1    | CP_16QAM   | 25.07 | -2.25 | 22.82 | 191.43 | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633000 | 1@243  | CP_16QAM   | 24.5  | -2.25 | 22.25 | 167.88 | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633000 | 245@0  | CP_64QAM   | 23.86 | -2.25 | 21.61 | 144.88 | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633000 | 123@61 | CP_64QAM   | 24.08 | -2.25 | 21.83 | 152.41 | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633000 | 1@1    | CP_64QAM   | 23.59 | -2.25 | 21.34 | 136.14 | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633000 | 1@243  | CP_64QAM   | 23.06 | -2.25 | 20.81 | 120.5  | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633000 | 245@0  | CP_256QAM  | 20.86 | -2.25 | 18.61 | 72.61  | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633000 | 123@61 | CP_256QAM  | 21    | -2.25 | 18.75 | 74.99  | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633000 | 1@1    | CP_256QAM  | 20.41 | -2.25 | 18.16 | 65.46  | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633000 | 1@243  | CP_256QAM  | 20.26 | -2.25 | 18.01 | 63.24  | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633334 | 243@0  | DFT_BPSK   | 26.91 | -2.25 | 24.66 | 292.42 | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633334 | 120@60 | DFT_BPSK   | 27.61 | -2.25 | 25.36 | 343.56 | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633334 | 1@1    | DFT_BPSK   | 26.91 | -2.25 | 24.66 | 292.42 | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633334 | 1@243  | DFT_BPSK   | 26.38 | -2.25 | 24.13 | 258.82 | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633334 | 243@0  | DFT_QPSK   | 26.42 | -2.25 | 24.17 | 261.22 | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633334 | 120@60 | DFT_QPSK   | 27.6  | -2.25 | 25.35 | 342.77 | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633334 | 1@1    | DFT_QPSK   | 26.98 | -2.25 | 24.73 | 297.17 | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633334 | 1@243  | DFT_QPSK   | 26.41 | -2.25 | 24.16 | 260.62 | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633334 | 243@0  | DFT_16QAM  | 25.42 | -2.25 | 23.17 | 207.49 | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633334 | 120@60 | DFT_16QAM  | 26.63 | -2.25 | 24.38 | 274.16 | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633334 | 1@1    | DFT_16QAM  | 25.77 | -2.25 | 23.52 | 224.91 | 1000 | PASS |

|            |    |    |        |        |            |       |       |       |        |      |      |
|------------|----|----|--------|--------|------------|-------|-------|-------|--------|------|------|
| DC_5A_n78A | 30 | 90 | 633334 | 1@243  | DFT_16QAM  | 25.22 | -2.25 | 22.97 | 198.15 | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633334 | 243@0  | DFT_64QAM  | 24.9  | -2.25 | 22.65 | 184.08 | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633334 | 120@60 | DFT_64QAM  | 25.13 | -2.25 | 22.88 | 194.09 | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633334 | 1@1    | DFT_64QAM  | 24.26 | -2.25 | 22.01 | 158.85 | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633334 | 1@243  | DFT_64QAM  | 23.69 | -2.25 | 21.44 | 139.32 | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633334 | 243@0  | DFT_256QAM | 22.88 | -2.25 | 20.63 | 115.61 | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633334 | 120@60 | DFT_256QAM | 23.11 | -2.25 | 20.86 | 121.9  | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633334 | 1@1    | DFT_256QAM | 22.42 | -2.25 | 20.17 | 103.99 | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633334 | 1@243  | DFT_256QAM | 21.88 | -2.25 | 19.63 | 91.83  | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633334 | 245@0  | CP_QPSK    | 24.37 | -2.25 | 22.12 | 162.93 | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633334 | 123@61 | CP_QPSK    | 26.09 | -2.25 | 23.84 | 242.1  | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633334 | 1@1    | CP_QPSK    | 25.47 | -2.25 | 23.22 | 209.89 | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633334 | 1@243  | CP_QPSK    | 24.88 | -2.25 | 22.63 | 183.23 | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633334 | 245@0  | CP_16QAM   | 24.39 | -2.25 | 22.14 | 163.68 | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633334 | 123@61 | CP_16QAM   | 25.55 | -2.25 | 23.3  | 213.8  | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633334 | 1@1    | CP_16QAM   | 25.06 | -2.25 | 22.81 | 190.99 | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633334 | 1@243  | CP_16QAM   | 24.51 | -2.25 | 22.26 | 168.27 | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633334 | 245@0  | CP_64QAM   | 23.88 | -2.25 | 21.63 | 145.55 | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633334 | 123@61 | CP_64QAM   | 24.05 | -2.25 | 21.8  | 151.36 | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633334 | 1@1    | CP_64QAM   | 23.61 | -2.25 | 21.36 | 136.77 | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633334 | 1@243  | CP_64QAM   | 23.05 | -2.25 | 20.8  | 120.23 | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633334 | 245@0  | CP_256QAM  | 21.02 | -2.25 | 18.77 | 75.34  | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633334 | 123@61 | CP_256QAM  | 21.1  | -2.25 | 18.85 | 76.74  | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633334 | 1@1    | CP_256QAM  | 20.45 | -2.25 | 18.2  | 66.07  | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633334 | 1@243  | CP_256QAM  | 20.2  | -2.25 | 17.95 | 62.37  | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633666 | 243@0  | DFT_BPSK   | 26.94 | -2.25 | 24.69 | 294.44 | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633666 | 120@60 | DFT_BPSK   | 27.64 | -2.25 | 25.39 | 345.94 | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633666 | 1@1    | DFT_BPSK   | 26.99 | -2.25 | 24.74 | 297.85 | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633666 | 1@243  | DFT_BPSK   | 26.34 | -2.25 | 24.09 | 256.45 | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633666 | 243@0  | DFT_QPSK   | 26.46 | -2.25 | 24.21 | 263.63 | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633666 | 120@60 | DFT_QPSK   | 27.62 | -2.25 | 25.37 | 344.35 | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633666 | 1@1    | DFT_QPSK   | 27.07 | -2.25 | 24.82 | 303.39 | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633666 | 1@243  | DFT_QPSK   | 26.41 | -2.25 | 24.16 | 260.62 | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633666 | 243@0  | DFT_16QAM  | 25.48 | -2.25 | 23.23 | 210.38 | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633666 | 120@60 | DFT_16QAM  | 26.61 | -2.25 | 24.36 | 272.9  | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633666 | 1@1    | DFT_16QAM  | 25.87 | -2.25 | 23.62 | 230.14 | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633666 | 1@243  | DFT_16QAM  | 25.19 | -2.25 | 22.94 | 196.79 | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633666 | 243@0  | DFT_64QAM  | 24.94 | -2.25 | 22.69 | 185.78 | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633666 | 120@60 | DFT_64QAM  | 25.11 | -2.25 | 22.86 | 193.2  | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633666 | 1@1    | DFT_64QAM  | 24.33 | -2.25 | 22.08 | 161.44 | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633666 | 1@243  | DFT_64QAM  | 23.77 | -2.25 | 21.52 | 141.91 | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633666 | 243@0  | DFT_256QAM | 22.95 | -2.25 | 20.7  | 117.49 | 1000 | PASS |
| DC_5A_n78A | 30 | 90 | 633666 | 120@60 | DFT_256QAM | 23.12 | -2.25 | 20.87 | 122.18 | 1000 | PASS |



|            |    |     |        |        |            |       |       |       |        |      |      |
|------------|----|-----|--------|--------|------------|-------|-------|-------|--------|------|------|
| DC_5A_n78A | 30 | 90  | 633666 | 1@1    | DFT_256QAM | 22.51 | -2.25 | 20.26 | 106.17 | 1000 | PASS |
| DC_5A_n78A | 30 | 90  | 633666 | 1@243  | DFT_256QAM | 21.86 | -2.25 | 19.61 | 91.41  | 1000 | PASS |
| DC_5A_n78A | 30 | 90  | 633666 | 245@0  | CP_QPSK    | 24.42 | -2.25 | 22.17 | 164.82 | 1000 | PASS |
| DC_5A_n78A | 30 | 90  | 633666 | 123@61 | CP_QPSK    | 26.08 | -2.25 | 23.83 | 241.55 | 1000 | PASS |
| DC_5A_n78A | 30 | 90  | 633666 | 1@1    | CP_QPSK    | 25.56 | -2.25 | 23.31 | 214.29 | 1000 | PASS |
| DC_5A_n78A | 30 | 90  | 633666 | 1@243  | CP_QPSK    | 24.98 | -2.25 | 22.73 | 187.5  | 1000 | PASS |
| DC_5A_n78A | 30 | 90  | 633666 | 245@0  | CP_16QAM   | 24.4  | -2.25 | 22.15 | 164.06 | 1000 | PASS |
| DC_5A_n78A | 30 | 90  | 633666 | 123@61 | CP_16QAM   | 25.5  | -2.25 | 23.25 | 211.35 | 1000 | PASS |
| DC_5A_n78A | 30 | 90  | 633666 | 1@1    | CP_16QAM   | 25.16 | -2.25 | 22.91 | 195.43 | 1000 | PASS |
| DC_5A_n78A | 30 | 90  | 633666 | 1@243  | CP_16QAM   | 24.55 | -2.25 | 22.3  | 169.82 | 1000 | PASS |
| DC_5A_n78A | 30 | 90  | 633666 | 245@0  | CP_64QAM   | 23.88 | -2.25 | 21.63 | 145.55 | 1000 | PASS |
| DC_5A_n78A | 30 | 90  | 633666 | 123@61 | CP_64QAM   | 24.04 | -2.25 | 21.79 | 151.01 | 1000 | PASS |
| DC_5A_n78A | 30 | 90  | 633666 | 1@1    | CP_64QAM   | 23.66 | -2.25 | 21.41 | 138.36 | 1000 | PASS |
| DC_5A_n78A | 30 | 90  | 633666 | 1@243  | CP_64QAM   | 23.13 | -2.25 | 20.88 | 122.46 | 1000 | PASS |
| DC_5A_n78A | 30 | 90  | 633666 | 245@0  | CP_256QAM  | 21.03 | -2.25 | 18.78 | 75.51  | 1000 | PASS |
| DC_5A_n78A | 30 | 90  | 633666 | 123@61 | CP_256QAM  | 21.18 | -2.25 | 18.93 | 78.16  | 1000 | PASS |
| DC_5A_n78A | 30 | 90  | 633666 | 1@1    | CP_256QAM  | 20.51 | -2.25 | 18.26 | 66.99  | 1000 | PASS |
| DC_5A_n78A | 30 | 90  | 633666 | 1@243  | CP_256QAM  | 20.31 | -2.25 | 18.06 | 63.97  | 1000 | PASS |
| DC_5A_n78A | 30 | 100 | 633334 | 270@0  | DFT_BPSK   | 26.86 | -2.25 | 24.61 | 289.07 | 1000 | PASS |
| DC_5A_n78A | 30 | 100 | 633334 | 135@67 | DFT_BPSK   | 27.6  | -2.25 | 25.35 | 342.77 | 1000 | PASS |
| DC_5A_n78A | 30 | 100 | 633334 | 1@1    | DFT_BPSK   | 26.79 | -2.25 | 24.54 | 284.45 | 1000 | PASS |
| DC_5A_n78A | 30 | 100 | 633334 | 1@271  | DFT_BPSK   | 26.12 | -2.25 | 23.87 | 243.78 | 1000 | PASS |
| DC_5A_n78A | 30 | 100 | 633334 | 270@0  | DFT_QPSK   | 26.38 | -2.25 | 24.13 | 258.82 | 1000 | PASS |
| DC_5A_n78A | 30 | 100 | 633334 | 135@67 | DFT_QPSK   | 27.62 | -2.25 | 25.37 | 344.35 | 1000 | PASS |
| DC_5A_n78A | 30 | 100 | 633334 | 1@1    | DFT_QPSK   | 26.84 | -2.25 | 24.59 | 287.74 | 1000 | PASS |
| DC_5A_n78A | 30 | 100 | 633334 | 1@271  | DFT_QPSK   | 26.21 | -2.25 | 23.96 | 248.89 | 1000 | PASS |
| DC_5A_n78A | 30 | 100 | 633334 | 270@0  | DFT_16QAM  | 25.37 | -2.25 | 23.12 | 205.12 | 1000 | PASS |
| DC_5A_n78A | 30 | 100 | 633334 | 135@67 | DFT_16QAM  | 26.63 | -2.25 | 24.38 | 274.16 | 1000 | PASS |
| DC_5A_n78A | 30 | 100 | 633334 | 1@1    | DFT_16QAM  | 25.74 | -2.25 | 23.49 | 223.36 | 1000 | PASS |
| DC_5A_n78A | 30 | 100 | 633334 | 1@271  | DFT_16QAM  | 25.1  | -2.25 | 22.85 | 192.75 | 1000 | PASS |
| DC_5A_n78A | 30 | 100 | 633334 | 270@0  | DFT_64QAM  | 24.85 | -2.25 | 22.6  | 181.97 | 1000 | PASS |
| DC_5A_n78A | 30 | 100 | 633334 | 135@67 | DFT_64QAM  | 25.11 | -2.25 | 22.86 | 193.2  | 1000 | PASS |
| DC_5A_n78A | 30 | 100 | 633334 | 1@1    | DFT_64QAM  | 24.1  | -2.25 | 21.85 | 153.11 | 1000 | PASS |
| DC_5A_n78A | 30 | 100 | 633334 | 1@271  | DFT_64QAM  | 23.42 | -2.25 | 21.17 | 130.92 | 1000 | PASS |
| DC_5A_n78A | 30 | 100 | 633334 | 270@0  | DFT_256QAM | 22.8  | -2.25 | 20.55 | 113.5  | 1000 | PASS |
| DC_5A_n78A | 30 | 100 | 633334 | 135@67 | DFT_256QAM | 23.09 | -2.25 | 20.84 | 121.34 | 1000 | PASS |
| DC_5A_n78A | 30 | 100 | 633334 | 1@1    | DFT_256QAM | 22.26 | -2.25 | 20.01 | 100.23 | 1000 | PASS |
| DC_5A_n78A | 30 | 100 | 633334 | 1@271  | DFT_256QAM | 21.61 | -2.25 | 19.36 | 86.3   | 1000 | PASS |
| DC_5A_n78A | 30 | 100 | 633334 | 273@0  | CP_QPSK    | 24.31 | -2.25 | 22.06 | 160.69 | 1000 | PASS |
| DC_5A_n78A | 30 | 100 | 633334 | 137@68 | CP_QPSK    | 26.13 | -2.25 | 23.88 | 244.34 | 1000 | PASS |
| DC_5A_n78A | 30 | 100 | 633334 | 1@1    | CP_QPSK    | 25.33 | -2.25 | 23.08 | 203.24 | 1000 | PASS |
| DC_5A_n78A | 30 | 100 | 633334 | 1@271  | CP_QPSK    | 24.71 | -2.25 | 22.46 | 176.2  | 1000 | PASS |
| DC_5A_n78A | 30 | 100 | 633334 | 273@0  | CP_16QAM   | 24.35 | -2.25 | 22.1  | 162.18 | 1000 | PASS |

|            |    |     |        |        |           |       |       |       |        |      |      |
|------------|----|-----|--------|--------|-----------|-------|-------|-------|--------|------|------|
| DC_5A_n78A | 30 | 100 | 633334 | 137@68 | CP_16QAM  | 25.59 | -2.25 | 23.34 | 215.77 | 1000 | PASS |
| DC_5A_n78A | 30 | 100 | 633334 | 1@1    | CP_16QAM  | 24.88 | -2.25 | 22.63 | 183.23 | 1000 | PASS |
| DC_5A_n78A | 30 | 100 | 633334 | 1@271  | CP_16QAM  | 24.31 | -2.25 | 22.06 | 160.69 | 1000 | PASS |
| DC_5A_n78A | 30 | 100 | 633334 | 273@0  | CP_64QAM  | 23.83 | -2.25 | 21.58 | 143.88 | 1000 | PASS |
| DC_5A_n78A | 30 | 100 | 633334 | 137@68 | CP_64QAM  | 24.1  | -2.25 | 21.85 | 153.11 | 1000 | PASS |
| DC_5A_n78A | 30 | 100 | 633334 | 1@1    | CP_64QAM  | 23.52 | -2.25 | 21.27 | 133.97 | 1000 | PASS |
| DC_5A_n78A | 30 | 100 | 633334 | 1@271  | CP_64QAM  | 22.92 | -2.25 | 20.67 | 116.68 | 1000 | PASS |
| DC_5A_n78A | 30 | 100 | 633334 | 273@0  | CP_256QAM | 20.98 | -2.25 | 18.73 | 74.64  | 1000 | PASS |
| DC_5A_n78A | 30 | 100 | 633334 | 137@68 | CP_256QAM | 21.19 | -2.25 | 18.94 | 78.34  | 1000 | PASS |
| DC_5A_n78A | 30 | 100 | 633334 | 1@1    | CP_256QAM | 20.32 | -2.25 | 18.07 | 64.12  | 1000 | PASS |
| DC_5A_n78A | 30 | 100 | 633334 | 1@271  | CP_256QAM | 20.07 | -2.25 | 17.82 | 60.53  | 1000 | PASS |

| Band        | SCS<br>(kHz) | Bandwidth<br>(MHz) | UL<br>Channel | RB<br>Allocation | Modulation | Power<br>(dBm) | GT -<br>Lc<br>(dB) | EIRP<br>(dBm) | EIRP<br>(mW) | EIRP<br>Limit<br>(mW) | Verdict |
|-------------|--------------|--------------------|---------------|------------------|------------|----------------|--------------------|---------------|--------------|-----------------------|---------|
| DC_12A_n78A | 30           | 10                 | 630334        | 24@0             | DFT_BPSK   | 27.37          | -2.25              | 25.12         | 325.09       | 1000                  | PASS    |
| DC_12A_n78A | 30           | 10                 | 630334        | 12@6             | DFT_BPSK   | 27.84          | -2.25              | 25.59         | 362.24       | 1000                  | PASS    |
| DC_12A_n78A | 30           | 10                 | 630334        | 1@1              | DFT_BPSK   | 27.79          | -2.25              | 25.54         | 358.1        | 1000                  | PASS    |
| DC_12A_n78A | 30           | 10                 | 630334        | 1@22             | DFT_BPSK   | 27.76          | -2.25              | 25.51         | 355.63       | 1000                  | PASS    |
| DC_12A_n78A | 30           | 10                 | 630334        | 24@0             | DFT_QPSK   | 26.94          | -2.25              | 24.69         | 294.44       | 1000                  | PASS    |
| DC_12A_n78A | 30           | 10                 | 630334        | 12@6             | DFT_QPSK   | 27.84          | -2.25              | 25.59         | 362.24       | 1000                  | PASS    |
| DC_12A_n78A | 30           | 10                 | 630334        | 1@1              | DFT_QPSK   | 27.89          | -2.25              | 25.64         | 366.44       | 1000                  | PASS    |
| DC_12A_n78A | 30           | 10                 | 630334        | 1@22             | DFT_QPSK   | 27.77          | -2.25              | 25.52         | 356.45       | 1000                  | PASS    |
| DC_12A_n78A | 30           | 10                 | 630334        | 24@0             | DFT_16QAM  | 25.9           | -2.25              | 23.65         | 231.74       | 1000                  | PASS    |
| DC_12A_n78A | 30           | 10                 | 630334        | 12@6             | DFT_16QAM  | 26.82          | -2.25              | 24.57         | 286.42       | 1000                  | PASS    |
| DC_12A_n78A | 30           | 10                 | 630334        | 1@1              | DFT_16QAM  | 26.68          | -2.25              | 24.43         | 277.33       | 1000                  | PASS    |
| DC_12A_n78A | 30           | 10                 | 630334        | 1@22             | DFT_16QAM  | 26.63          | -2.25              | 24.38         | 274.16       | 1000                  | PASS    |
| DC_12A_n78A | 30           | 10                 | 630334        | 24@0             | DFT_64QAM  | 25.43          | -2.25              | 23.18         | 207.97       | 1000                  | PASS    |
| DC_12A_n78A | 30           | 10                 | 630334        | 12@6             | DFT_64QAM  | 25.4           | -2.25              | 23.15         | 206.54       | 1000                  | PASS    |
| DC_12A_n78A | 30           | 10                 | 630334        | 1@1              | DFT_64QAM  | 25.19          | -2.25              | 22.94         | 196.79       | 1000                  | PASS    |
| DC_12A_n78A | 30           | 10                 | 630334        | 1@22             | DFT_64QAM  | 25.16          | -2.25              | 22.91         | 195.43       | 1000                  | PASS    |
| DC_12A_n78A | 30           | 10                 | 630334        | 24@0             | DFT_256QAM | 23.39          | -2.25              | 21.14         | 130.02       | 1000                  | PASS    |
| DC_12A_n78A | 30           | 10                 | 630334        | 12@6             | DFT_256QAM | 23.4           | -2.25              | 21.15         | 130.32       | 1000                  | PASS    |
| DC_12A_n78A | 30           | 10                 | 630334        | 1@1              | DFT_256QAM | 23.35          | -2.25              | 21.1          | 128.82       | 1000                  | PASS    |
| DC_12A_n78A | 30           | 10                 | 630334        | 1@22             | DFT_256QAM | 23.29          | -2.25              | 21.04         | 127.06       | 1000                  | PASS    |
| DC_12A_n78A | 30           | 10                 | 630334        | 24@0             | CP_QPSK    | 24.84          | -2.25              | 22.59         | 181.55       | 1000                  | PASS    |
| DC_12A_n78A | 30           | 10                 | 630334        | 12@6             | CP_QPSK    | 26.42          | -2.25              | 24.17         | 261.22       | 1000                  | PASS    |
| DC_12A_n78A | 30           | 10                 | 630334        | 1@1              | CP_QPSK    | 26.3           | -2.25              | 24.05         | 254.1        | 1000                  | PASS    |
| DC_12A_n78A | 30           | 10                 | 630334        | 1@22             | CP_QPSK    | 26.21          | -2.25              | 23.96         | 248.89       | 1000                  | PASS    |
| DC_12A_n78A | 30           | 10                 | 630334        | 24@0             | CP_16QAM   | 24.91          | -2.25              | 22.66         | 184.5        | 1000                  | PASS    |
| DC_12A_n78A | 30           | 10                 | 630334        | 12@6             | CP_16QAM   | 25.88          | -2.25              | 23.63         | 230.67       | 1000                  | PASS    |
| DC_12A_n78A | 30           | 10                 | 630334        | 1@1              | CP_16QAM   | 25.95          | -2.25              | 23.7          | 234.42       | 1000                  | PASS    |
| DC_12A_n78A | 30           | 10                 | 630334        | 1@22             | CP_16QAM   | 25.91          | -2.25              | 23.66         | 232.27       | 1000                  | PASS    |

|             |    |    |        |      |            |       |       |       |        |      |      |
|-------------|----|----|--------|------|------------|-------|-------|-------|--------|------|------|
| DC_12A_n78A | 30 | 10 | 630334 | 24@0 | CP_64QAM   | 24.35 | -2.25 | 22.1  | 162.18 | 1000 | PASS |
| DC_12A_n78A | 30 | 10 | 630334 | 12@6 | CP_64QAM   | 24.33 | -2.25 | 22.08 | 161.44 | 1000 | PASS |
| DC_12A_n78A | 30 | 10 | 630334 | 1@1  | CP_64QAM   | 24.57 | -2.25 | 22.32 | 170.61 | 1000 | PASS |
| DC_12A_n78A | 30 | 10 | 630334 | 1@22 | CP_64QAM   | 24.48 | -2.25 | 22.23 | 167.11 | 1000 | PASS |
| DC_12A_n78A | 30 | 10 | 630334 | 24@0 | CP_256QAM  | 21.33 | -2.25 | 19.08 | 80.91  | 1000 | PASS |
| DC_12A_n78A | 30 | 10 | 630334 | 12@6 | CP_256QAM  | 21.38 | -2.25 | 19.13 | 81.85  | 1000 | PASS |
| DC_12A_n78A | 30 | 10 | 630334 | 1@1  | CP_256QAM  | 21.37 | -2.25 | 19.12 | 81.66  | 1000 | PASS |
| DC_12A_n78A | 30 | 10 | 630334 | 1@22 | CP_256QAM  | 21.32 | -2.25 | 19.07 | 80.72  | 1000 | PASS |
| DC_12A_n78A | 30 | 10 | 633334 | 24@0 | DFT_BPSK   | 27.18 | -2.25 | 24.93 | 311.17 | 1000 | PASS |
| DC_12A_n78A | 30 | 10 | 633334 | 12@6 | DFT_BPSK   | 27.71 | -2.25 | 25.46 | 351.56 | 1000 | PASS |
| DC_12A_n78A | 30 | 10 | 633334 | 1@1  | DFT_BPSK   | 27.64 | -2.25 | 25.39 | 345.94 | 1000 | PASS |
| DC_12A_n78A | 30 | 10 | 633334 | 1@22 | DFT_BPSK   | 27.56 | -2.25 | 25.31 | 339.63 | 1000 | PASS |
| DC_12A_n78A | 30 | 10 | 633334 | 24@0 | DFT_QPSK   | 26.76 | -2.25 | 24.51 | 282.49 | 1000 | PASS |
| DC_12A_n78A | 30 | 10 | 633334 | 12@6 | DFT_QPSK   | 27.71 | -2.25 | 25.46 | 351.56 | 1000 | PASS |
| DC_12A_n78A | 30 | 10 | 633334 | 1@1  | DFT_QPSK   | 27.72 | -2.25 | 25.47 | 352.37 | 1000 | PASS |
| DC_12A_n78A | 30 | 10 | 633334 | 1@22 | DFT_QPSK   | 27.65 | -2.25 | 25.4  | 346.74 | 1000 | PASS |
| DC_12A_n78A | 30 | 10 | 633334 | 24@0 | DFT_16QAM  | 25.71 | -2.25 | 23.46 | 221.82 | 1000 | PASS |
| DC_12A_n78A | 30 | 10 | 633334 | 12@6 | DFT_16QAM  | 26.66 | -2.25 | 24.41 | 276.06 | 1000 | PASS |
| DC_12A_n78A | 30 | 10 | 633334 | 1@1  | DFT_16QAM  | 26.57 | -2.25 | 24.32 | 270.4  | 1000 | PASS |
| DC_12A_n78A | 30 | 10 | 633334 | 1@22 | DFT_16QAM  | 26.46 | -2.25 | 24.21 | 263.63 | 1000 | PASS |
| DC_12A_n78A | 30 | 10 | 633334 | 24@0 | DFT_64QAM  | 25.24 | -2.25 | 22.99 | 199.07 | 1000 | PASS |
| DC_12A_n78A | 30 | 10 | 633334 | 12@6 | DFT_64QAM  | 25.21 | -2.25 | 22.96 | 197.7  | 1000 | PASS |
| DC_12A_n78A | 30 | 10 | 633334 | 1@1  | DFT_64QAM  | 24.99 | -2.25 | 22.74 | 187.93 | 1000 | PASS |
| DC_12A_n78A | 30 | 10 | 633334 | 1@22 | DFT_64QAM  | 24.95 | -2.25 | 22.7  | 186.21 | 1000 | PASS |
| DC_12A_n78A | 30 | 10 | 633334 | 24@0 | DFT_256QAM | 23.21 | -2.25 | 20.96 | 124.74 | 1000 | PASS |
| DC_12A_n78A | 30 | 10 | 633334 | 12@6 | DFT_256QAM | 23.26 | -2.25 | 21.01 | 126.18 | 1000 | PASS |
| DC_12A_n78A | 30 | 10 | 633334 | 1@1  | DFT_256QAM | 23.18 | -2.25 | 20.93 | 123.88 | 1000 | PASS |
| DC_12A_n78A | 30 | 10 | 633334 | 1@22 | DFT_256QAM | 23.11 | -2.25 | 20.86 | 121.9  | 1000 | PASS |
| DC_12A_n78A | 30 | 10 | 633334 | 24@0 | CP_QPSK    | 24.7  | -2.25 | 22.45 | 175.79 | 1000 | PASS |
| DC_12A_n78A | 30 | 10 | 633334 | 12@6 | CP_QPSK    | 26.26 | -2.25 | 24.01 | 251.77 | 1000 | PASS |
| DC_12A_n78A | 30 | 10 | 633334 | 1@1  | CP_QPSK    | 26.23 | -2.25 | 23.98 | 250.03 | 1000 | PASS |
| DC_12A_n78A | 30 | 10 | 633334 | 1@22 | CP_QPSK    | 26.12 | -2.25 | 23.87 | 243.78 | 1000 | PASS |
| DC_12A_n78A | 30 | 10 | 633334 | 24@0 | CP_16QAM   | 24.69 | -2.25 | 22.44 | 175.39 | 1000 | PASS |
| DC_12A_n78A | 30 | 10 | 633334 | 12@6 | CP_16QAM   | 25.71 | -2.25 | 23.46 | 221.82 | 1000 | PASS |
| DC_12A_n78A | 30 | 10 | 633334 | 1@1  | CP_16QAM   | 25.84 | -2.25 | 23.59 | 228.56 | 1000 | PASS |
| DC_12A_n78A | 30 | 10 | 633334 | 1@22 | CP_16QAM   | 25.74 | -2.25 | 23.49 | 223.36 | 1000 | PASS |
| DC_12A_n78A | 30 | 10 | 633334 | 24@0 | CP_64QAM   | 24.23 | -2.25 | 21.98 | 157.76 | 1000 | PASS |
| DC_12A_n78A | 30 | 10 | 633334 | 12@6 | CP_64QAM   | 24.21 | -2.25 | 21.96 | 157.04 | 1000 | PASS |
| DC_12A_n78A | 30 | 10 | 633334 | 1@1  | CP_64QAM   | 24.38 | -2.25 | 22.13 | 163.31 | 1000 | PASS |
| DC_12A_n78A | 30 | 10 | 633334 | 1@22 | CP_64QAM   | 24.29 | -2.25 | 22.04 | 159.96 | 1000 | PASS |
| DC_12A_n78A | 30 | 10 | 633334 | 24@0 | CP_256QAM  | 21.15 | -2.25 | 18.9  | 77.62  | 1000 | PASS |
| DC_12A_n78A | 30 | 10 | 633334 | 12@6 | CP_256QAM  | 21.19 | -2.25 | 18.94 | 78.34  | 1000 | PASS |
| DC_12A_n78A | 30 | 10 | 633334 | 1@1  | CP_256QAM  | 21.26 | -2.25 | 19.01 | 79.62  | 1000 | PASS |

|             |    |    |        |      |            |       |       |       |        |      |      |
|-------------|----|----|--------|------|------------|-------|-------|-------|--------|------|------|
| DC_12A_n78A | 30 | 10 | 633334 | 1@22 | CP_256QAM  | 21.15 | -2.25 | 18.9  | 77.62  | 1000 | PASS |
| DC_12A_n78A | 30 | 10 | 636332 | 24@0 | DFT_BPSK   | 26.92 | -2.25 | 24.67 | 293.09 | 1000 | PASS |
| DC_12A_n78A | 30 | 10 | 636332 | 12@6 | DFT_BPSK   | 27.46 | -2.25 | 25.21 | 331.89 | 1000 | PASS |
| DC_12A_n78A | 30 | 10 | 636332 | 1@1  | DFT_BPSK   | 27.39 | -2.25 | 25.14 | 326.59 | 1000 | PASS |
| DC_12A_n78A | 30 | 10 | 636332 | 1@22 | DFT_BPSK   | 27.36 | -2.25 | 25.11 | 324.34 | 1000 | PASS |
| DC_12A_n78A | 30 | 10 | 636332 | 24@0 | DFT_QPSK   | 26.45 | -2.25 | 24.2  | 263.03 | 1000 | PASS |
| DC_12A_n78A | 30 | 10 | 636332 | 12@6 | DFT_QPSK   | 27.47 | -2.25 | 25.22 | 332.66 | 1000 | PASS |
| DC_12A_n78A | 30 | 10 | 636332 | 1@1  | DFT_QPSK   | 27.46 | -2.25 | 25.21 | 331.89 | 1000 | PASS |
| DC_12A_n78A | 30 | 10 | 636332 | 1@22 | DFT_QPSK   | 27.36 | -2.25 | 25.11 | 324.34 | 1000 | PASS |
| DC_12A_n78A | 30 | 10 | 636332 | 24@0 | DFT_16QAM  | 25.44 | -2.25 | 23.19 | 208.45 | 1000 | PASS |
| DC_12A_n78A | 30 | 10 | 636332 | 12@6 | DFT_16QAM  | 26.44 | -2.25 | 24.19 | 262.42 | 1000 | PASS |
| DC_12A_n78A | 30 | 10 | 636332 | 1@1  | DFT_16QAM  | 26.23 | -2.25 | 23.98 | 250.03 | 1000 | PASS |
| DC_12A_n78A | 30 | 10 | 636332 | 1@22 | DFT_16QAM  | 26.22 | -2.25 | 23.97 | 249.46 | 1000 | PASS |
| DC_12A_n78A | 30 | 10 | 636332 | 24@0 | DFT_64QAM  | 24.96 | -2.25 | 22.71 | 186.64 | 1000 | PASS |
| DC_12A_n78A | 30 | 10 | 636332 | 12@6 | DFT_64QAM  | 24.99 | -2.25 | 22.74 | 187.93 | 1000 | PASS |
| DC_12A_n78A | 30 | 10 | 636332 | 1@1  | DFT_64QAM  | 24.75 | -2.25 | 22.5  | 177.83 | 1000 | PASS |
| DC_12A_n78A | 30 | 10 | 636332 | 1@22 | DFT_64QAM  | 24.67 | -2.25 | 22.42 | 174.58 | 1000 | PASS |
| DC_12A_n78A | 30 | 10 | 636332 | 24@0 | DFT_256QAM | 22.94 | -2.25 | 20.69 | 117.22 | 1000 | PASS |
| DC_12A_n78A | 30 | 10 | 636332 | 12@6 | DFT_256QAM | 22.98 | -2.25 | 20.73 | 118.3  | 1000 | PASS |
| DC_12A_n78A | 30 | 10 | 636332 | 1@1  | DFT_256QAM | 22.9  | -2.25 | 20.65 | 116.14 | 1000 | PASS |
| DC_12A_n78A | 30 | 10 | 636332 | 1@22 | DFT_256QAM | 22.91 | -2.25 | 20.66 | 116.41 | 1000 | PASS |
| DC_12A_n78A | 30 | 10 | 636332 | 24@0 | CP_QPSK    | 24.41 | -2.25 | 22.16 | 164.44 | 1000 | PASS |
| DC_12A_n78A | 30 | 10 | 636332 | 12@6 | CP_QPSK    | 25.97 | -2.25 | 23.72 | 235.5  | 1000 | PASS |
| DC_12A_n78A | 30 | 10 | 636332 | 1@1  | CP_QPSK    | 25.93 | -2.25 | 23.68 | 233.35 | 1000 | PASS |
| DC_12A_n78A | 30 | 10 | 636332 | 1@22 | CP_QPSK    | 25.82 | -2.25 | 23.57 | 227.51 | 1000 | PASS |
| DC_12A_n78A | 30 | 10 | 636332 | 24@0 | CP_16QAM   | 24.44 | -2.25 | 22.19 | 165.58 | 1000 | PASS |
| DC_12A_n78A | 30 | 10 | 636332 | 12@6 | CP_16QAM   | 25.43 | -2.25 | 23.18 | 207.97 | 1000 | PASS |
| DC_12A_n78A | 30 | 10 | 636332 | 1@1  | CP_16QAM   | 25.53 | -2.25 | 23.28 | 212.81 | 1000 | PASS |
| DC_12A_n78A | 30 | 10 | 636332 | 1@22 | CP_16QAM   | 25.46 | -2.25 | 23.21 | 209.41 | 1000 | PASS |
| DC_12A_n78A | 30 | 10 | 636332 | 24@0 | CP_64QAM   | 23.91 | -2.25 | 21.66 | 146.55 | 1000 | PASS |
| DC_12A_n78A | 30 | 10 | 636332 | 12@6 | CP_64QAM   | 23.93 | -2.25 | 21.68 | 147.23 | 1000 | PASS |
| DC_12A_n78A | 30 | 10 | 636332 | 1@1  | CP_64QAM   | 24.11 | -2.25 | 21.86 | 153.46 | 1000 | PASS |
| DC_12A_n78A | 30 | 10 | 636332 | 1@22 | CP_64QAM   | 24.08 | -2.25 | 21.83 | 152.41 | 1000 | PASS |
| DC_12A_n78A | 30 | 10 | 636332 | 24@0 | CP_256QAM  | 21.06 | -2.25 | 18.81 | 76.03  | 1000 | PASS |
| DC_12A_n78A | 30 | 10 | 636332 | 12@6 | CP_256QAM  | 21.1  | -2.25 | 18.85 | 76.74  | 1000 | PASS |
| DC_12A_n78A | 30 | 10 | 636332 | 1@1  | CP_256QAM  | 21.01 | -2.25 | 18.76 | 75.16  | 1000 | PASS |
| DC_12A_n78A | 30 | 10 | 636332 | 1@22 | CP_256QAM  | 20.94 | -2.25 | 18.69 | 73.96  | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 630500 | 36@0 | DFT_BPSK   | 27.4  | -2.25 | 25.15 | 327.34 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 630500 | 18@9 | DFT_BPSK   | 27.9  | -2.25 | 25.65 | 367.28 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 630500 | 1@1  | DFT_BPSK   | 27.81 | -2.25 | 25.56 | 359.75 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 630500 | 1@36 | DFT_BPSK   | 27.74 | -2.25 | 25.49 | 354    | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 630500 | 36@0 | DFT_QPSK   | 26.91 | -2.25 | 24.66 | 292.42 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 630500 | 18@9 | DFT_QPSK   | 27.94 | -2.25 | 25.69 | 370.68 | 1000 | PASS |

|             |    |    |        |      |            |       |       |       |        |      |      |
|-------------|----|----|--------|------|------------|-------|-------|-------|--------|------|------|
| DC_12A_n78A | 30 | 15 | 630500 | 1@1  | DFT_QPSK   | 27.9  | -2.25 | 25.65 | 367.28 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 630500 | 1@36 | DFT_QPSK   | 27.79 | -2.25 | 25.54 | 358.1  | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 630500 | 36@0 | DFT_16QAM  | 25.92 | -2.25 | 23.67 | 232.81 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 630500 | 18@9 | DFT_16QAM  | 26.87 | -2.25 | 24.62 | 289.73 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 630500 | 1@1  | DFT_16QAM  | 26.77 | -2.25 | 24.52 | 283.14 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 630500 | 1@36 | DFT_16QAM  | 26.61 | -2.25 | 24.36 | 272.9  | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 630500 | 36@0 | DFT_64QAM  | 25.4  | -2.25 | 23.15 | 206.54 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 630500 | 18@9 | DFT_64QAM  | 25.39 | -2.25 | 23.14 | 206.06 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 630500 | 1@1  | DFT_64QAM  | 25.15 | -2.25 | 22.9  | 194.98 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 630500 | 1@36 | DFT_64QAM  | 25.1  | -2.25 | 22.85 | 192.75 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 630500 | 36@0 | DFT_256QAM | 23.43 | -2.25 | 21.18 | 131.22 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 630500 | 18@9 | DFT_256QAM | 23.34 | -2.25 | 21.09 | 128.53 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 630500 | 1@1  | DFT_256QAM | 23.35 | -2.25 | 21.1  | 128.82 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 630500 | 1@36 | DFT_256QAM | 23.25 | -2.25 | 21    | 125.89 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 630500 | 38@0 | CP_QPSK    | 24.9  | -2.25 | 22.65 | 184.08 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 630500 | 19@9 | CP_QPSK    | 26.34 | -2.25 | 24.09 | 256.45 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 630500 | 1@1  | CP_QPSK    | 26.36 | -2.25 | 24.11 | 257.63 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 630500 | 1@36 | CP_QPSK    | 26.26 | -2.25 | 24.01 | 251.77 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 630500 | 38@0 | CP_16QAM   | 24.95 | -2.25 | 22.7  | 186.21 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 630500 | 19@9 | CP_16QAM   | 25.87 | -2.25 | 23.62 | 230.14 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 630500 | 1@1  | CP_16QAM   | 26    | -2.25 | 23.75 | 237.14 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 630500 | 1@36 | CP_16QAM   | 25.91 | -2.25 | 23.66 | 232.27 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 630500 | 38@0 | CP_64QAM   | 24.4  | -2.25 | 22.15 | 164.06 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 630500 | 19@9 | CP_64QAM   | 24.42 | -2.25 | 22.17 | 164.82 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 630500 | 1@1  | CP_64QAM   | 24.61 | -2.25 | 22.36 | 172.19 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 630500 | 1@36 | CP_64QAM   | 24.52 | -2.25 | 22.27 | 168.66 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 630500 | 38@0 | CP_256QAM  | 21.35 | -2.25 | 19.1  | 81.28  | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 630500 | 19@9 | CP_256QAM  | 21.22 | -2.25 | 18.97 | 78.89  | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 630500 | 1@1  | CP_256QAM  | 21.38 | -2.25 | 19.13 | 81.85  | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 630500 | 1@36 | CP_256QAM  | 21.31 | -2.25 | 19.06 | 80.54  | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 633334 | 36@0 | DFT_BPSK   | 27.21 | -2.25 | 24.96 | 313.33 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 633334 | 18@9 | DFT_BPSK   | 27.71 | -2.25 | 25.46 | 351.56 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 633334 | 1@1  | DFT_BPSK   | 27.63 | -2.25 | 25.38 | 345.14 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 633334 | 1@36 | DFT_BPSK   | 27.55 | -2.25 | 25.3  | 338.84 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 633334 | 36@0 | DFT_QPSK   | 26.72 | -2.25 | 24.47 | 279.9  | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 633334 | 18@9 | DFT_QPSK   | 27.75 | -2.25 | 25.5  | 354.81 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 633334 | 1@1  | DFT_QPSK   | 27.76 | -2.25 | 25.51 | 355.63 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 633334 | 1@36 | DFT_QPSK   | 27.62 | -2.25 | 25.37 | 344.35 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 633334 | 36@0 | DFT_16QAM  | 25.69 | -2.25 | 23.44 | 220.8  | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 633334 | 18@9 | DFT_16QAM  | 26.76 | -2.25 | 24.51 | 282.49 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 633334 | 1@1  | DFT_16QAM  | 26.54 | -2.25 | 24.29 | 268.53 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 633334 | 1@36 | DFT_16QAM  | 26.42 | -2.25 | 24.17 | 261.22 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 633334 | 36@0 | DFT_64QAM  | 25.18 | -2.25 | 22.93 | 196.34 | 1000 | PASS |



|             |    |    |        |      |            |       |       |       |        |      |      |
|-------------|----|----|--------|------|------------|-------|-------|-------|--------|------|------|
| DC_12A_n78A | 30 | 15 | 633334 | 18@9 | DFT_64QAM  | 25.24 | -2.25 | 22.99 | 199.07 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 633334 | 1@1  | DFT_64QAM  | 25.01 | -2.25 | 22.76 | 188.8  | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 633334 | 1@36 | DFT_64QAM  | 24.96 | -2.25 | 22.71 | 186.64 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 633334 | 36@0 | DFT_256QAM | 23.2  | -2.25 | 20.95 | 124.45 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 633334 | 18@9 | DFT_256QAM | 23.22 | -2.25 | 20.97 | 125.03 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 633334 | 1@1  | DFT_256QAM | 23.19 | -2.25 | 20.94 | 124.17 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 633334 | 1@36 | DFT_256QAM | 23.1  | -2.25 | 20.85 | 121.62 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 633334 | 38@0 | CP_QPSK    | 24.7  | -2.25 | 22.45 | 175.79 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 633334 | 19@9 | CP_QPSK    | 26.2  | -2.25 | 23.95 | 248.31 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 633334 | 1@1  | CP_QPSK    | 26.19 | -2.25 | 23.94 | 247.74 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 633334 | 1@36 | CP_QPSK    | 26.07 | -2.25 | 23.82 | 240.99 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 633334 | 38@0 | CP_16QAM   | 24.76 | -2.25 | 22.51 | 178.24 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 633334 | 19@9 | CP_16QAM   | 25.74 | -2.25 | 23.49 | 223.36 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 633334 | 1@1  | CP_16QAM   | 25.82 | -2.25 | 23.57 | 227.51 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 633334 | 1@36 | CP_16QAM   | 25.72 | -2.25 | 23.47 | 222.33 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 633334 | 38@0 | CP_64QAM   | 24.2  | -2.25 | 21.95 | 156.68 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 633334 | 19@9 | CP_64QAM   | 24.24 | -2.25 | 21.99 | 158.12 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 633334 | 1@1  | CP_64QAM   | 24.41 | -2.25 | 22.16 | 164.44 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 633334 | 1@36 | CP_64QAM   | 24.28 | -2.25 | 22.03 | 159.59 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 633334 | 38@0 | CP_256QAM  | 21.12 | -2.25 | 18.87 | 77.09  | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 633334 | 19@9 | CP_256QAM  | 21.11 | -2.25 | 18.86 | 76.91  | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 633334 | 1@1  | CP_256QAM  | 21.23 | -2.25 | 18.98 | 79.07  | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 633334 | 1@36 | CP_256QAM  | 21.14 | -2.25 | 18.89 | 77.45  | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 636166 | 36@0 | DFT_BPSK   | 26.97 | -2.25 | 24.72 | 296.48 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 636166 | 18@9 | DFT_BPSK   | 27.48 | -2.25 | 25.23 | 333.43 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 636166 | 1@1  | DFT_BPSK   | 27.41 | -2.25 | 25.16 | 328.1  | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 636166 | 1@36 | DFT_BPSK   | 27.32 | -2.25 | 25.07 | 321.37 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 636166 | 36@0 | DFT_QPSK   | 26.47 | -2.25 | 24.22 | 264.24 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 636166 | 18@9 | DFT_QPSK   | 27.49 | -2.25 | 25.24 | 334.2  | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 636166 | 1@1  | DFT_QPSK   | 27.48 | -2.25 | 25.23 | 333.43 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 636166 | 1@36 | DFT_QPSK   | 27.37 | -2.25 | 25.12 | 325.09 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 636166 | 36@0 | DFT_16QAM  | 25.46 | -2.25 | 23.21 | 209.41 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 636166 | 18@9 | DFT_16QAM  | 26.51 | -2.25 | 24.26 | 266.69 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 636166 | 1@1  | DFT_16QAM  | 26.32 | -2.25 | 24.07 | 255.27 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 636166 | 1@36 | DFT_16QAM  | 26.22 | -2.25 | 23.97 | 249.46 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 636166 | 36@0 | DFT_64QAM  | 24.91 | -2.25 | 22.66 | 184.5  | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 636166 | 18@9 | DFT_64QAM  | 24.97 | -2.25 | 22.72 | 187.07 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 636166 | 1@1  | DFT_64QAM  | 24.82 | -2.25 | 22.57 | 180.72 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 636166 | 1@36 | DFT_64QAM  | 24.62 | -2.25 | 22.37 | 172.58 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 636166 | 36@0 | DFT_256QAM | 22.88 | -2.25 | 20.63 | 115.61 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 636166 | 18@9 | DFT_256QAM | 22.96 | -2.25 | 20.71 | 117.76 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 636166 | 1@1  | DFT_256QAM | 22.95 | -2.25 | 20.7  | 117.49 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 636166 | 1@36 | DFT_256QAM | 22.84 | -2.25 | 20.59 | 114.55 | 1000 | PASS |

|             |    |    |        |       |            |       |       |       |        |      |      |
|-------------|----|----|--------|-------|------------|-------|-------|-------|--------|------|------|
| DC_12A_n78A | 30 | 15 | 636166 | 38@0  | CP_QPSK    | 24.43 | -2.25 | 22.18 | 165.2  | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 636166 | 19@9  | CP_QPSK    | 25.94 | -2.25 | 23.69 | 233.88 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 636166 | 1@1   | CP_QPSK    | 25.95 | -2.25 | 23.7  | 234.42 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 636166 | 1@36  | CP_QPSK    | 25.82 | -2.25 | 23.57 | 227.51 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 636166 | 38@0  | CP_16QAM   | 24.48 | -2.25 | 22.23 | 167.11 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 636166 | 19@9  | CP_16QAM   | 25.5  | -2.25 | 23.25 | 211.35 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 636166 | 1@1   | CP_16QAM   | 25.57 | -2.25 | 23.32 | 214.78 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 636166 | 1@36  | CP_16QAM   | 25.43 | -2.25 | 23.18 | 207.97 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 636166 | 38@0  | CP_64QAM   | 23.93 | -2.25 | 21.68 | 147.23 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 636166 | 19@9  | CP_64QAM   | 24.01 | -2.25 | 21.76 | 149.97 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 636166 | 1@1   | CP_64QAM   | 24.18 | -2.25 | 21.93 | 155.96 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 636166 | 1@36  | CP_64QAM   | 24.05 | -2.25 | 21.8  | 151.36 | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 636166 | 38@0  | CP_256QAM  | 21.06 | -2.25 | 18.81 | 76.03  | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 636166 | 19@9  | CP_256QAM  | 20.99 | -2.25 | 18.74 | 74.82  | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 636166 | 1@1   | CP_256QAM  | 21.16 | -2.25 | 18.91 | 77.8   | 1000 | PASS |
| DC_12A_n78A | 30 | 15 | 636166 | 1@36  | CP_256QAM  | 21.05 | -2.25 | 18.8  | 75.86  | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 630668 | 50@0  | DFT_BPSK   | 27.41 | -2.25 | 25.16 | 328.1  | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 630668 | 25@12 | DFT_BPSK   | 27.87 | -2.25 | 25.62 | 364.75 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 630668 | 1@1   | DFT_BPSK   | 27.78 | -2.25 | 25.53 | 357.27 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 630668 | 1@49  | DFT_BPSK   | 27.69 | -2.25 | 25.44 | 349.95 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 630668 | 50@0  | DFT_QPSK   | 26.93 | -2.25 | 24.68 | 293.76 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 630668 | 25@12 | DFT_QPSK   | 27.9  | -2.25 | 25.65 | 367.28 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 630668 | 1@1   | DFT_QPSK   | 27.89 | -2.25 | 25.64 | 366.44 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 630668 | 1@49  | DFT_QPSK   | 27.83 | -2.25 | 25.58 | 361.41 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 630668 | 50@0  | DFT_16QAM  | 25.93 | -2.25 | 23.68 | 233.35 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 630668 | 25@12 | DFT_16QAM  | 26.92 | -2.25 | 24.67 | 293.09 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 630668 | 1@1   | DFT_16QAM  | 26.65 | -2.25 | 24.4  | 275.42 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 630668 | 1@49  | DFT_16QAM  | 26.57 | -2.25 | 24.32 | 270.4  | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 630668 | 50@0  | DFT_64QAM  | 25.45 | -2.25 | 23.2  | 208.93 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 630668 | 25@12 | DFT_64QAM  | 25.45 | -2.25 | 23.2  | 208.93 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 630668 | 1@1   | DFT_64QAM  | 25.22 | -2.25 | 22.97 | 198.15 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 630668 | 1@49  | DFT_64QAM  | 25.13 | -2.25 | 22.88 | 194.09 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 630668 | 50@0  | DFT_256QAM | 23.34 | -2.25 | 21.09 | 128.53 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 630668 | 25@12 | DFT_256QAM | 23.38 | -2.25 | 21.13 | 129.72 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 630668 | 1@1   | DFT_256QAM | 23.34 | -2.25 | 21.09 | 128.53 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 630668 | 1@49  | DFT_256QAM | 23.26 | -2.25 | 21.01 | 126.18 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 630668 | 51@0  | CP_QPSK    | 24.89 | -2.25 | 22.64 | 183.65 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 630668 | 25@12 | CP_QPSK    | 26.4  | -2.25 | 24.15 | 260.02 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 630668 | 1@1   | CP_QPSK    | 26.31 | -2.25 | 24.06 | 254.68 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 630668 | 1@49  | CP_QPSK    | 26.23 | -2.25 | 23.98 | 250.03 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 630668 | 51@0  | CP_16QAM   | 24.92 | -2.25 | 22.67 | 184.93 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 630668 | 25@12 | CP_16QAM   | 25.85 | -2.25 | 23.6  | 229.09 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 630668 | 1@1   | CP_16QAM   | 25.96 | -2.25 | 23.71 | 234.96 | 1000 | PASS |

|             |    |    |        |       |            |       |       |       |        |      |      |
|-------------|----|----|--------|-------|------------|-------|-------|-------|--------|------|------|
| DC_12A_n78A | 30 | 20 | 630668 | 1@49  | CP_16QAM   | 25.86 | -2.25 | 23.61 | 229.61 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 630668 | 51@0  | CP_64QAM   | 24.34 | -2.25 | 22.09 | 161.81 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 630668 | 25@12 | CP_64QAM   | 24.37 | -2.25 | 22.12 | 162.93 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 630668 | 1@1   | CP_64QAM   | 24.55 | -2.25 | 22.3  | 169.82 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 630668 | 1@49  | CP_64QAM   | 24.47 | -2.25 | 22.22 | 166.72 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 630668 | 51@0  | CP_256QAM  | 21.32 | -2.25 | 19.07 | 80.72  | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 630668 | 25@12 | CP_256QAM  | 21.38 | -2.25 | 19.13 | 81.85  | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 630668 | 1@1   | CP_256QAM  | 21.38 | -2.25 | 19.13 | 81.85  | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 630668 | 1@49  | CP_256QAM  | 21.27 | -2.25 | 19.02 | 79.8   | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 633334 | 50@0  | DFT_BPSK   | 27.19 | -2.25 | 24.94 | 311.89 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 633334 | 25@12 | DFT_BPSK   | 27.71 | -2.25 | 25.46 | 351.56 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 633334 | 1@1   | DFT_BPSK   | 27.65 | -2.25 | 25.4  | 346.74 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 633334 | 1@49  | DFT_BPSK   | 27.49 | -2.25 | 25.24 | 334.2  | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 633334 | 50@0  | DFT_QPSK   | 26.72 | -2.25 | 24.47 | 279.9  | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 633334 | 25@12 | DFT_QPSK   | 27.75 | -2.25 | 25.5  | 354.81 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 633334 | 1@1   | DFT_QPSK   | 27.65 | -2.25 | 25.4  | 346.74 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 633334 | 1@49  | DFT_QPSK   | 27.52 | -2.25 | 25.27 | 336.51 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 633334 | 50@0  | DFT_16QAM  | 25.74 | -2.25 | 23.49 | 223.36 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 633334 | 25@12 | DFT_16QAM  | 26.72 | -2.25 | 24.47 | 279.9  | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 633334 | 1@1   | DFT_16QAM  | 26.5  | -2.25 | 24.25 | 266.07 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 633334 | 1@49  | DFT_16QAM  | 26.33 | -2.25 | 24.08 | 255.86 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 633334 | 50@0  | DFT_64QAM  | 25.18 | -2.25 | 22.93 | 196.34 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 633334 | 25@12 | DFT_64QAM  | 25.29 | -2.25 | 23.04 | 201.37 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 633334 | 1@1   | DFT_64QAM  | 24.97 | -2.25 | 22.72 | 187.07 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 633334 | 1@49  | DFT_64QAM  | 24.83 | -2.25 | 22.58 | 181.13 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 633334 | 50@0  | DFT_256QAM | 23.2  | -2.25 | 20.95 | 124.45 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 633334 | 25@12 | DFT_256QAM | 23.25 | -2.25 | 21    | 125.89 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 633334 | 1@1   | DFT_256QAM | 23.13 | -2.25 | 20.88 | 122.46 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 633334 | 1@49  | DFT_256QAM | 23.01 | -2.25 | 20.76 | 119.12 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 633334 | 51@0  | CP_QPSK    | 24.67 | -2.25 | 22.42 | 174.58 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 633334 | 25@12 | CP_QPSK    | 26.2  | -2.25 | 23.95 | 248.31 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 633334 | 1@1   | CP_QPSK    | 26.17 | -2.25 | 23.92 | 246.6  | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 633334 | 1@49  | CP_QPSK    | 26    | -2.25 | 23.75 | 237.14 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 633334 | 51@0  | CP_16QAM   | 24.69 | -2.25 | 22.44 | 175.39 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 633334 | 25@12 | CP_16QAM   | 25.7  | -2.25 | 23.45 | 221.31 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 633334 | 1@1   | CP_16QAM   | 25.81 | -2.25 | 23.56 | 226.99 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 633334 | 1@49  | CP_16QAM   | 25.61 | -2.25 | 23.36 | 216.77 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 633334 | 51@0  | CP_64QAM   | 24.11 | -2.25 | 21.86 | 153.46 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 633334 | 25@12 | CP_64QAM   | 24.2  | -2.25 | 21.95 | 156.68 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 633334 | 1@1   | CP_64QAM   | 24.36 | -2.25 | 22.11 | 162.55 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 633334 | 1@49  | CP_64QAM   | 24.23 | -2.25 | 21.98 | 157.76 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 633334 | 51@0  | CP_256QAM  | 21.09 | -2.25 | 18.84 | 76.56  | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 633334 | 25@12 | CP_256QAM  | 21.21 | -2.25 | 18.96 | 78.7   | 1000 | PASS |

|             |    |    |        |       |            |       |       |       |        |      |      |
|-------------|----|----|--------|-------|------------|-------|-------|-------|--------|------|------|
| DC_12A_n78A | 30 | 20 | 633334 | 1@1   | CP_256QAM  | 21.24 | -2.25 | 18.99 | 79.25  | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 633334 | 1@49  | CP_256QAM  | 21.09 | -2.25 | 18.84 | 76.56  | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 636000 | 50@0  | DFT_BPSK   | 26.99 | -2.25 | 24.74 | 297.85 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 636000 | 25@12 | DFT_BPSK   | 27.48 | -2.25 | 25.23 | 333.43 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 636000 | 1@1   | DFT_BPSK   | 27.47 | -2.25 | 25.22 | 332.66 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 636000 | 1@49  | DFT_BPSK   | 27.23 | -2.25 | 24.98 | 314.77 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 636000 | 50@0  | DFT_QPSK   | 26.5  | -2.25 | 24.25 | 266.07 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 636000 | 25@12 | DFT_QPSK   | 27.51 | -2.25 | 25.26 | 335.74 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 636000 | 1@1   | DFT_QPSK   | 27.45 | -2.25 | 25.2  | 331.13 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 636000 | 1@49  | DFT_QPSK   | 27.29 | -2.25 | 25.04 | 319.15 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 636000 | 50@0  | DFT_16QAM  | 25.5  | -2.25 | 23.25 | 211.35 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 636000 | 25@12 | DFT_16QAM  | 26.54 | -2.25 | 24.29 | 268.53 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 636000 | 1@1   | DFT_16QAM  | 26.37 | -2.25 | 24.12 | 258.23 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 636000 | 1@49  | DFT_16QAM  | 26.11 | -2.25 | 23.86 | 243.22 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 636000 | 50@0  | DFT_64QAM  | 25.02 | -2.25 | 22.77 | 189.23 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 636000 | 25@12 | DFT_64QAM  | 25.03 | -2.25 | 22.78 | 189.67 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 636000 | 1@1   | DFT_64QAM  | 24.78 | -2.25 | 22.53 | 179.06 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 636000 | 1@49  | DFT_64QAM  | 24.63 | -2.25 | 22.38 | 172.98 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 636000 | 50@0  | DFT_256QAM | 22.93 | -2.25 | 20.68 | 116.95 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 636000 | 25@12 | DFT_256QAM | 23    | -2.25 | 20.75 | 118.85 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 636000 | 1@1   | DFT_256QAM | 22.97 | -2.25 | 20.72 | 118.03 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 636000 | 1@49  | DFT_256QAM | 22.73 | -2.25 | 20.48 | 111.69 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 636000 | 51@0  | CP_QPSK    | 24.44 | -2.25 | 22.19 | 165.58 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 636000 | 25@12 | CP_QPSK    | 25.99 | -2.25 | 23.74 | 236.59 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 636000 | 1@1   | CP_QPSK    | 26    | -2.25 | 23.75 | 237.14 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 636000 | 1@49  | CP_QPSK    | 25.78 | -2.25 | 23.53 | 225.42 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 636000 | 51@0  | CP_16QAM   | 24.49 | -2.25 | 22.24 | 167.49 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 636000 | 25@12 | CP_16QAM   | 25.46 | -2.25 | 23.21 | 209.41 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 636000 | 1@1   | CP_16QAM   | 25.61 | -2.25 | 23.36 | 216.77 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 636000 | 1@49  | CP_16QAM   | 25.44 | -2.25 | 23.19 | 208.45 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 636000 | 51@0  | CP_64QAM   | 23.91 | -2.25 | 21.66 | 146.55 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 636000 | 25@12 | CP_64QAM   | 23.94 | -2.25 | 21.69 | 147.57 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 636000 | 1@1   | CP_64QAM   | 24.22 | -2.25 | 21.97 | 157.4  | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 636000 | 1@49  | CP_64QAM   | 24.01 | -2.25 | 21.76 | 149.97 | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 636000 | 51@0  | CP_256QAM  | 21.06 | -2.25 | 18.81 | 76.03  | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 636000 | 25@12 | CP_256QAM  | 21.09 | -2.25 | 18.84 | 76.56  | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 636000 | 1@1   | CP_256QAM  | 21.17 | -2.25 | 18.92 | 77.98  | 1000 | PASS |
| DC_12A_n78A | 30 | 20 | 636000 | 1@49  | CP_256QAM  | 20.93 | -2.25 | 18.68 | 73.79  | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 631334 | 100@0 | DFT_BPSK   | 27.24 | -2.25 | 24.99 | 315.5  | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 631334 | 50@25 | DFT_BPSK   | 27.88 | -2.25 | 25.63 | 365.59 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 631334 | 1@1   | DFT_BPSK   | 27.39 | -2.25 | 25.14 | 326.59 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 631334 | 1@104 | DFT_BPSK   | 27.28 | -2.25 | 25.03 | 318.42 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 631334 | 100@0 | DFT_QPSK   | 26.77 | -2.25 | 24.52 | 283.14 | 1000 | PASS |

|             |    |    |        |       |            |       |       |       |        |      |      |
|-------------|----|----|--------|-------|------------|-------|-------|-------|--------|------|------|
| DC_12A_n78A | 30 | 40 | 631334 | 50@25 | DFT_QPSK   | 27.89 | -2.25 | 25.64 | 366.44 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 631334 | 1@1   | DFT_QPSK   | 27.44 | -2.25 | 25.19 | 330.37 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 631334 | 1@104 | DFT_QPSK   | 27.38 | -2.25 | 25.13 | 325.84 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 631334 | 100@0 | DFT_16QAM  | 25.8  | -2.25 | 23.55 | 226.46 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 631334 | 50@25 | DFT_16QAM  | 26.9  | -2.25 | 24.65 | 291.74 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 631334 | 1@1   | DFT_16QAM  | 26.27 | -2.25 | 24.02 | 252.35 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 631334 | 1@104 | DFT_16QAM  | 26.16 | -2.25 | 23.91 | 246.04 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 631334 | 100@0 | DFT_64QAM  | 25.34 | -2.25 | 23.09 | 203.7  | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 631334 | 50@25 | DFT_64QAM  | 25.37 | -2.25 | 23.12 | 205.12 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 631334 | 1@1   | DFT_64QAM  | 24.71 | -2.25 | 22.46 | 176.2  | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 631334 | 1@104 | DFT_64QAM  | 24.65 | -2.25 | 22.4  | 173.78 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 631334 | 100@0 | DFT_256QAM | 23.22 | -2.25 | 20.97 | 125.03 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 631334 | 50@25 | DFT_256QAM | 23.34 | -2.25 | 21.09 | 128.53 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 631334 | 1@1   | DFT_256QAM | 22.94 | -2.25 | 20.69 | 117.22 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 631334 | 1@104 | DFT_256QAM | 22.8  | -2.25 | 20.55 | 113.5  | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 631334 | 106@0 | CP_QPSK    | 24.75 | -2.25 | 22.5  | 177.83 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 631334 | 53@26 | CP_QPSK    | 26.31 | -2.25 | 24.06 | 254.68 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 631334 | 1@1   | CP_QPSK    | 25.93 | -2.25 | 23.68 | 233.35 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 631334 | 1@104 | CP_QPSK    | 25.84 | -2.25 | 23.59 | 228.56 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 631334 | 106@0 | CP_16QAM   | 24.72 | -2.25 | 22.47 | 176.6  | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 631334 | 53@26 | CP_16QAM   | 25.83 | -2.25 | 23.58 | 228.03 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 631334 | 1@1   | CP_16QAM   | 25.49 | -2.25 | 23.24 | 210.86 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 631334 | 1@104 | CP_16QAM   | 25.48 | -2.25 | 23.23 | 210.38 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 631334 | 106@0 | CP_64QAM   | 24.26 | -2.25 | 22.01 | 158.85 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 631334 | 53@26 | CP_64QAM   | 24.31 | -2.25 | 22.06 | 160.69 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 631334 | 1@1   | CP_64QAM   | 24.14 | -2.25 | 21.89 | 154.53 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 631334 | 1@104 | CP_64QAM   | 24.04 | -2.25 | 21.79 | 151.01 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 631334 | 106@0 | CP_256QAM  | 21.24 | -2.25 | 18.99 | 79.25  | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 631334 | 53@26 | CP_256QAM  | 21.32 | -2.25 | 19.07 | 80.72  | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 631334 | 1@1   | CP_256QAM  | 21.02 | -2.25 | 18.77 | 75.34  | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 631334 | 1@104 | CP_256QAM  | 20.92 | -2.25 | 18.67 | 73.62  | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 633334 | 100@0 | DFT_BPSK   | 27.12 | -2.25 | 24.87 | 306.9  | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 633334 | 50@25 | DFT_BPSK   | 27.68 | -2.25 | 25.43 | 349.14 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 633334 | 1@1   | DFT_BPSK   | 27.35 | -2.25 | 25.1  | 323.59 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 633334 | 1@104 | DFT_BPSK   | 27.02 | -2.25 | 24.77 | 299.92 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 633334 | 100@0 | DFT_QPSK   | 26.58 | -2.25 | 24.33 | 271.02 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 633334 | 50@25 | DFT_QPSK   | 27.68 | -2.25 | 25.43 | 349.14 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 633334 | 1@1   | DFT_QPSK   | 27.43 | -2.25 | 25.18 | 329.61 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 633334 | 1@104 | DFT_QPSK   | 27.03 | -2.25 | 24.78 | 300.61 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 633334 | 100@0 | DFT_16QAM  | 25.64 | -2.25 | 23.39 | 218.27 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 633334 | 50@25 | DFT_16QAM  | 26.66 | -2.25 | 24.41 | 276.06 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 633334 | 1@1   | DFT_16QAM  | 26.25 | -2.25 | 24    | 251.19 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 633334 | 1@104 | DFT_16QAM  | 25.91 | -2.25 | 23.66 | 232.27 | 1000 | PASS |



|             |    |    |        |       |            |       |       |       |        |      |      |
|-------------|----|----|--------|-------|------------|-------|-------|-------|--------|------|------|
| DC_12A_n78A | 30 | 40 | 633334 | 100@0 | DFT_64QAM  | 25.1  | -2.25 | 22.85 | 192.75 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 633334 | 50@25 | DFT_64QAM  | 25.16 | -2.25 | 22.91 | 195.43 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 633334 | 1@1   | DFT_64QAM  | 24.73 | -2.25 | 22.48 | 177.01 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 633334 | 1@104 | DFT_64QAM  | 24.39 | -2.25 | 22.14 | 163.68 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 633334 | 100@0 | DFT_256QAM | 23.08 | -2.25 | 20.83 | 121.06 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 633334 | 50@25 | DFT_256QAM | 23.13 | -2.25 | 20.88 | 122.46 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 633334 | 1@1   | DFT_256QAM | 22.94 | -2.25 | 20.69 | 117.22 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 633334 | 1@104 | DFT_256QAM | 22.57 | -2.25 | 20.32 | 107.65 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 633334 | 106@0 | CP_QPSK    | 24.57 | -2.25 | 22.32 | 170.61 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 633334 | 53@26 | CP_QPSK    | 26.13 | -2.25 | 23.88 | 244.34 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 633334 | 1@1   | CP_QPSK    | 25.93 | -2.25 | 23.68 | 233.35 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 633334 | 1@104 | CP_QPSK    | 25.58 | -2.25 | 23.33 | 215.28 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 633334 | 106@0 | CP_16QAM   | 24.51 | -2.25 | 22.26 | 168.27 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 633334 | 53@26 | CP_16QAM   | 25.68 | -2.25 | 23.43 | 220.29 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 633334 | 1@1   | CP_16QAM   | 25.52 | -2.25 | 23.27 | 212.32 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 633334 | 1@104 | CP_16QAM   | 25.21 | -2.25 | 22.96 | 197.7  | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 633334 | 106@0 | CP_64QAM   | 24.05 | -2.25 | 21.8  | 151.36 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 633334 | 53@26 | CP_64QAM   | 24.1  | -2.25 | 21.85 | 153.11 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 633334 | 1@1   | CP_64QAM   | 24.1  | -2.25 | 21.85 | 153.11 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 633334 | 1@104 | CP_64QAM   | 23.74 | -2.25 | 21.49 | 140.93 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 633334 | 106@0 | CP_256QAM  | 21.18 | -2.25 | 18.93 | 78.16  | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 633334 | 53@26 | CP_256QAM  | 21.25 | -2.25 | 19    | 79.43  | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 633334 | 1@1   | CP_256QAM  | 20.97 | -2.25 | 18.72 | 74.47  | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 633334 | 1@104 | CP_256QAM  | 20.71 | -2.25 | 18.46 | 70.15  | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 635332 | 100@0 | DFT_BPSK   | 26.79 | -2.25 | 24.54 | 284.45 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 635332 | 50@25 | DFT_BPSK   | 27.43 | -2.25 | 25.18 | 329.61 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 635332 | 1@1   | DFT_BPSK   | 26.99 | -2.25 | 24.74 | 297.85 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 635332 | 1@104 | DFT_BPSK   | 26.67 | -2.25 | 24.42 | 276.69 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 635332 | 100@0 | DFT_QPSK   | 26.29 | -2.25 | 24.04 | 253.51 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 635332 | 50@25 | DFT_QPSK   | 27.45 | -2.25 | 25.2  | 331.13 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 635332 | 1@1   | DFT_QPSK   | 27.08 | -2.25 | 24.83 | 304.09 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 635332 | 1@104 | DFT_QPSK   | 26.67 | -2.25 | 24.42 | 276.69 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 635332 | 100@0 | DFT_16QAM  | 25.28 | -2.25 | 23.03 | 200.91 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 635332 | 50@25 | DFT_16QAM  | 26.44 | -2.25 | 24.19 | 262.42 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 635332 | 1@1   | DFT_16QAM  | 25.93 | -2.25 | 23.68 | 233.35 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 635332 | 1@104 | DFT_16QAM  | 25.53 | -2.25 | 23.28 | 212.81 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 635332 | 100@0 | DFT_64QAM  | 24.76 | -2.25 | 22.51 | 178.24 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 635332 | 50@25 | DFT_64QAM  | 24.91 | -2.25 | 22.66 | 184.5  | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 635332 | 1@1   | DFT_64QAM  | 24.35 | -2.25 | 22.1  | 162.18 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 635332 | 1@104 | DFT_64QAM  | 24.04 | -2.25 | 21.79 | 151.01 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 635332 | 100@0 | DFT_256QAM | 22.72 | -2.25 | 20.47 | 111.43 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 635332 | 50@25 | DFT_256QAM | 22.92 | -2.25 | 20.67 | 116.68 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 635332 | 1@1   | DFT_256QAM | 22.56 | -2.25 | 20.31 | 107.4  | 1000 | PASS |

|             |    |    |        |       |            |       |       |       |        |      |      |
|-------------|----|----|--------|-------|------------|-------|-------|-------|--------|------|------|
| DC_12A_n78A | 30 | 40 | 635332 | 1@104 | DFT_256QAM | 22.21 | -2.25 | 19.96 | 99.08  | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 635332 | 106@0 | CP_QPSK    | 24.23 | -2.25 | 21.98 | 157.76 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 635332 | 53@26 | CP_QPSK    | 25.88 | -2.25 | 23.63 | 230.67 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 635332 | 1@1   | CP_QPSK    | 25.62 | -2.25 | 23.37 | 217.27 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 635332 | 1@104 | CP_QPSK    | 25.19 | -2.25 | 22.94 | 196.79 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 635332 | 106@0 | CP_16QAM   | 24.22 | -2.25 | 21.97 | 157.4  | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 635332 | 53@26 | CP_16QAM   | 25.4  | -2.25 | 23.15 | 206.54 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 635332 | 1@1   | CP_16QAM   | 25.12 | -2.25 | 22.87 | 193.64 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 635332 | 1@104 | CP_16QAM   | 24.76 | -2.25 | 22.51 | 178.24 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 635332 | 106@0 | CP_64QAM   | 23.71 | -2.25 | 21.46 | 139.96 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 635332 | 53@26 | CP_64QAM   | 23.82 | -2.25 | 21.57 | 143.55 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 635332 | 1@1   | CP_64QAM   | 23.77 | -2.25 | 21.52 | 141.91 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 635332 | 1@104 | CP_64QAM   | 23.39 | -2.25 | 21.14 | 130.02 | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 635332 | 106@0 | CP_256QAM  | 20.89 | -2.25 | 18.64 | 73.11  | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 635332 | 53@26 | CP_256QAM  | 20.92 | -2.25 | 18.67 | 73.62  | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 635332 | 1@1   | CP_256QAM  | 20.7  | -2.25 | 18.45 | 69.98  | 1000 | PASS |
| DC_12A_n78A | 30 | 40 | 635332 | 1@104 | CP_256QAM  | 20.32 | -2.25 | 18.07 | 64.12  | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 631668 | 128@0 | DFT_BPSK   | 27.25 | -2.25 | 25    | 316.23 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 631668 | 64@32 | DFT_BPSK   | 27.83 | -2.25 | 25.58 | 361.41 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 631668 | 1@1   | DFT_BPSK   | 27.55 | -2.25 | 25.3  | 338.84 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 631668 | 1@131 | DFT_BPSK   | 27.39 | -2.25 | 25.14 | 326.59 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 631668 | 128@0 | DFT_QPSK   | 26.78 | -2.25 | 24.53 | 283.79 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 631668 | 64@32 | DFT_QPSK   | 27.85 | -2.25 | 25.6  | 363.08 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 631668 | 1@1   | DFT_QPSK   | 27.62 | -2.25 | 25.37 | 344.35 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 631668 | 1@131 | DFT_QPSK   | 27.44 | -2.25 | 25.19 | 330.37 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 631668 | 128@0 | DFT_16QAM  | 25.77 | -2.25 | 23.52 | 224.91 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 631668 | 64@32 | DFT_16QAM  | 26.91 | -2.25 | 24.66 | 292.42 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 631668 | 1@1   | DFT_16QAM  | 26.4  | -2.25 | 24.15 | 260.02 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 631668 | 1@131 | DFT_16QAM  | 26.24 | -2.25 | 23.99 | 250.61 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 631668 | 128@0 | DFT_64QAM  | 25.27 | -2.25 | 23.02 | 200.45 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 631668 | 64@32 | DFT_64QAM  | 25.34 | -2.25 | 23.09 | 203.7  | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 631668 | 1@1   | DFT_64QAM  | 24.9  | -2.25 | 22.65 | 184.08 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 631668 | 1@131 | DFT_64QAM  | 24.72 | -2.25 | 22.47 | 176.6  | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 631668 | 128@0 | DFT_256QAM | 23.21 | -2.25 | 20.96 | 124.74 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 631668 | 64@32 | DFT_256QAM | 23.31 | -2.25 | 21.06 | 127.64 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 631668 | 1@1   | DFT_256QAM | 23.07 | -2.25 | 20.82 | 120.78 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 631668 | 1@131 | DFT_256QAM | 22.9  | -2.25 | 20.65 | 116.14 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 631668 | 133@0 | CP_QPSK    | 24.73 | -2.25 | 22.48 | 177.01 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 631668 | 67@33 | CP_QPSK    | 26.31 | -2.25 | 24.06 | 254.68 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 631668 | 1@1   | CP_QPSK    | 26.1  | -2.25 | 23.85 | 242.66 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 631668 | 1@131 | CP_QPSK    | 25.91 | -2.25 | 23.66 | 232.27 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 631668 | 133@0 | CP_16QAM   | 24.73 | -2.25 | 22.48 | 177.01 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 631668 | 67@33 | CP_16QAM   | 25.81 | -2.25 | 23.56 | 226.99 | 1000 | PASS |

|             |    |    |        |       |            |       |       |       |        |      |      |
|-------------|----|----|--------|-------|------------|-------|-------|-------|--------|------|------|
| DC_12A_n78A | 30 | 50 | 631668 | 1@1   | CP_16QAM   | 25.69 | -2.25 | 23.44 | 220.8  | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 631668 | 1@131 | CP_16QAM   | 25.49 | -2.25 | 23.24 | 210.86 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 631668 | 133@0 | CP_64QAM   | 24.26 | -2.25 | 22.01 | 158.85 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 631668 | 67@33 | CP_64QAM   | 24.37 | -2.25 | 22.12 | 162.93 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 631668 | 1@1   | CP_64QAM   | 24.3  | -2.25 | 22.05 | 160.32 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 631668 | 1@131 | CP_64QAM   | 24.08 | -2.25 | 21.83 | 152.41 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 631668 | 133@0 | CP_256QAM  | 21.24 | -2.25 | 18.99 | 79.25  | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 631668 | 67@33 | CP_256QAM  | 21.27 | -2.25 | 19.02 | 79.8   | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 631668 | 1@1   | CP_256QAM  | 21.16 | -2.25 | 18.91 | 77.8   | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 631668 | 1@131 | CP_256QAM  | 21.1  | -2.25 | 18.85 | 76.74  | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 633334 | 128@0 | DFT_BPSK   | 27.1  | -2.25 | 24.85 | 305.49 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 633334 | 64@32 | DFT_BPSK   | 27.73 | -2.25 | 25.48 | 353.18 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 633334 | 1@1   | DFT_BPSK   | 27.6  | -2.25 | 25.35 | 342.77 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 633334 | 1@131 | DFT_BPSK   | 27.2  | -2.25 | 24.95 | 312.61 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 633334 | 128@0 | DFT_QPSK   | 26.66 | -2.25 | 24.41 | 276.06 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 633334 | 64@32 | DFT_QPSK   | 27.73 | -2.25 | 25.48 | 353.18 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 633334 | 1@1   | DFT_QPSK   | 27.73 | -2.25 | 25.48 | 353.18 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 633334 | 1@131 | DFT_QPSK   | 27.26 | -2.25 | 25.01 | 316.96 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 633334 | 128@0 | DFT_16QAM  | 25.68 | -2.25 | 23.43 | 220.29 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 633334 | 64@32 | DFT_16QAM  | 26.74 | -2.25 | 24.49 | 281.19 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 633334 | 1@1   | DFT_16QAM  | 26.49 | -2.25 | 24.24 | 265.46 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 633334 | 1@131 | DFT_16QAM  | 26.06 | -2.25 | 23.81 | 240.44 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 633334 | 128@0 | DFT_64QAM  | 25.15 | -2.25 | 22.9  | 194.98 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 633334 | 64@32 | DFT_64QAM  | 25.25 | -2.25 | 23    | 199.53 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 633334 | 1@1   | DFT_64QAM  | 24.97 | -2.25 | 22.72 | 187.07 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 633334 | 1@131 | DFT_64QAM  | 24.56 | -2.25 | 22.31 | 170.22 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 633334 | 128@0 | DFT_256QAM | 23.11 | -2.25 | 20.86 | 121.9  | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 633334 | 64@32 | DFT_256QAM | 23.2  | -2.25 | 20.95 | 124.45 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 633334 | 1@1   | DFT_256QAM | 23.15 | -2.25 | 20.9  | 123.03 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 633334 | 1@131 | DFT_256QAM | 22.74 | -2.25 | 20.49 | 111.94 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 633334 | 133@0 | CP_QPSK    | 24.61 | -2.25 | 22.36 | 172.19 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 633334 | 67@33 | CP_QPSK    | 26.16 | -2.25 | 23.91 | 246.04 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 633334 | 1@1   | CP_QPSK    | 26.21 | -2.25 | 23.96 | 248.89 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 633334 | 1@131 | CP_QPSK    | 25.73 | -2.25 | 23.48 | 222.84 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 633334 | 133@0 | CP_16QAM   | 24.6  | -2.25 | 22.35 | 171.79 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 633334 | 67@33 | CP_16QAM   | 25.64 | -2.25 | 23.39 | 218.27 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 633334 | 1@1   | CP_16QAM   | 25.83 | -2.25 | 23.58 | 228.03 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 633334 | 1@131 | CP_16QAM   | 25.36 | -2.25 | 23.11 | 204.64 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 633334 | 133@0 | CP_64QAM   | 24.15 | -2.25 | 21.9  | 154.88 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 633334 | 67@33 | CP_64QAM   | 24.21 | -2.25 | 21.96 | 157.04 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 633334 | 1@1   | CP_64QAM   | 24.38 | -2.25 | 22.13 | 163.31 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 633334 | 1@131 | CP_64QAM   | 23.96 | -2.25 | 21.71 | 148.25 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 633334 | 133@0 | CP_256QAM  | 21.21 | -2.25 | 18.96 | 78.7   | 1000 | PASS |

|             |    |    |        |       |            |       |       |       |        |      |      |
|-------------|----|----|--------|-------|------------|-------|-------|-------|--------|------|------|
| DC_12A_n78A | 30 | 50 | 633334 | 67@33 | CP_256QAM  | 21.25 | -2.25 | 19    | 79.43  | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 633334 | 1@1   | CP_256QAM  | 21.23 | -2.25 | 18.98 | 79.07  | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 633334 | 1@131 | CP_256QAM  | 20.99 | -2.25 | 18.74 | 74.82  | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 635000 | 128@0 | DFT_BPSK   | 26.91 | -2.25 | 24.66 | 292.42 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 635000 | 64@32 | DFT_BPSK   | 27.46 | -2.25 | 25.21 | 331.89 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 635000 | 1@1   | DFT_BPSK   | 27.28 | -2.25 | 25.03 | 318.42 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 635000 | 1@131 | DFT_BPSK   | 26.85 | -2.25 | 24.6  | 288.4  | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 635000 | 128@0 | DFT_QPSK   | 26.38 | -2.25 | 24.13 | 258.82 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 635000 | 64@32 | DFT_QPSK   | 27.49 | -2.25 | 25.24 | 334.2  | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 635000 | 1@1   | DFT_QPSK   | 27.35 | -2.25 | 25.1  | 323.59 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 635000 | 1@131 | DFT_QPSK   | 26.89 | -2.25 | 24.64 | 291.07 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 635000 | 128@0 | DFT_16QAM  | 25.36 | -2.25 | 23.11 | 204.64 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 635000 | 64@32 | DFT_16QAM  | 26.48 | -2.25 | 24.23 | 264.85 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 635000 | 1@1   | DFT_16QAM  | 26.17 | -2.25 | 23.92 | 246.6  | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 635000 | 1@131 | DFT_16QAM  | 25.76 | -2.25 | 23.51 | 224.39 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 635000 | 128@0 | DFT_64QAM  | 24.87 | -2.25 | 22.62 | 182.81 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 635000 | 64@32 | DFT_64QAM  | 24.97 | -2.25 | 22.72 | 187.07 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 635000 | 1@1   | DFT_64QAM  | 24.69 | -2.25 | 22.44 | 175.39 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 635000 | 1@131 | DFT_64QAM  | 24.24 | -2.25 | 21.99 | 158.12 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 635000 | 128@0 | DFT_256QAM | 22.81 | -2.25 | 20.56 | 113.76 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 635000 | 64@32 | DFT_256QAM | 22.96 | -2.25 | 20.71 | 117.76 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 635000 | 1@1   | DFT_256QAM | 22.81 | -2.25 | 20.56 | 113.76 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 635000 | 1@131 | DFT_256QAM | 22.43 | -2.25 | 20.18 | 104.23 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 635000 | 133@0 | CP_QPSK    | 24.35 | -2.25 | 22.1  | 162.18 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 635000 | 67@33 | CP_QPSK    | 25.92 | -2.25 | 23.67 | 232.81 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 635000 | 1@1   | CP_QPSK    | 25.85 | -2.25 | 23.6  | 229.09 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 635000 | 1@131 | CP_QPSK    | 25.46 | -2.25 | 23.21 | 209.41 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 635000 | 133@0 | CP_16QAM   | 24.34 | -2.25 | 22.09 | 161.81 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 635000 | 67@33 | CP_16QAM   | 25.4  | -2.25 | 23.15 | 206.54 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 635000 | 1@1   | CP_16QAM   | 25.49 | -2.25 | 23.24 | 210.86 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 635000 | 1@131 | CP_16QAM   | 25.07 | -2.25 | 22.82 | 191.43 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 635000 | 133@0 | CP_64QAM   | 23.84 | -2.25 | 21.59 | 144.21 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 635000 | 67@33 | CP_64QAM   | 23.92 | -2.25 | 21.67 | 146.89 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 635000 | 1@1   | CP_64QAM   | 24.07 | -2.25 | 21.82 | 152.05 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 635000 | 1@131 | CP_64QAM   | 23.66 | -2.25 | 21.41 | 138.36 | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 635000 | 133@0 | CP_256QAM  | 20.97 | -2.25 | 18.72 | 74.47  | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 635000 | 67@33 | CP_256QAM  | 20.99 | -2.25 | 18.74 | 74.82  | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 635000 | 1@1   | CP_256QAM  | 21.09 | -2.25 | 18.84 | 76.56  | 1000 | PASS |
| DC_12A_n78A | 30 | 50 | 635000 | 1@131 | CP_256QAM  | 20.67 | -2.25 | 18.42 | 69.5   | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 632000 | 162@0 | DFT_BPSK   | 27.18 | -2.25 | 24.93 | 311.17 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 632000 | 81@40 | DFT_BPSK   | 27.82 | -2.25 | 25.57 | 360.58 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 632000 | 1@1   | DFT_BPSK   | 27.43 | -2.25 | 25.18 | 329.61 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 632000 | 1@160 | DFT_BPSK   | 27.11 | -2.25 | 24.86 | 306.2  | 1000 | PASS |

|             |    |    |        |       |            |       |       |       |        |      |      |
|-------------|----|----|--------|-------|------------|-------|-------|-------|--------|------|------|
| DC_12A_n78A | 30 | 60 | 632000 | 162@0 | DFT_QPSK   | 26.72 | -2.25 | 24.47 | 279.9  | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 632000 | 81@40 | DFT_QPSK   | 27.85 | -2.25 | 25.6  | 363.08 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 632000 | 1@1   | DFT_QPSK   | 27.6  | -2.25 | 25.35 | 342.77 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 632000 | 1@160 | DFT_QPSK   | 27.17 | -2.25 | 24.92 | 310.46 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 632000 | 162@0 | DFT_16QAM  | 25.72 | -2.25 | 23.47 | 222.33 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 632000 | 81@40 | DFT_16QAM  | 26.85 | -2.25 | 24.6  | 288.4  | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 632000 | 1@1   | DFT_16QAM  | 26.39 | -2.25 | 24.14 | 259.42 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 632000 | 1@160 | DFT_16QAM  | 25.99 | -2.25 | 23.74 | 236.59 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 632000 | 162@0 | DFT_64QAM  | 25.24 | -2.25 | 22.99 | 199.07 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 632000 | 81@40 | DFT_64QAM  | 25.34 | -2.25 | 23.09 | 203.7  | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 632000 | 1@1   | DFT_64QAM  | 24.83 | -2.25 | 22.58 | 181.13 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 632000 | 1@160 | DFT_64QAM  | 24.48 | -2.25 | 22.23 | 167.11 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 632000 | 162@0 | DFT_256QAM | 23.15 | -2.25 | 20.9  | 123.03 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 632000 | 81@40 | DFT_256QAM | 23.34 | -2.25 | 21.09 | 128.53 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 632000 | 1@1   | DFT_256QAM | 22.99 | -2.25 | 20.74 | 118.58 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 632000 | 1@160 | DFT_256QAM | 22.65 | -2.25 | 20.4  | 109.65 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 632000 | 162@0 | CP_QPSK    | 24.65 | -2.25 | 22.4  | 173.78 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 632000 | 81@40 | CP_QPSK    | 26.32 | -2.25 | 24.07 | 255.27 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 632000 | 1@1   | CP_QPSK    | 26.05 | -2.25 | 23.8  | 239.88 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 632000 | 1@160 | CP_QPSK    | 25.71 | -2.25 | 23.46 | 221.82 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 632000 | 162@0 | CP_16QAM   | 24.71 | -2.25 | 22.46 | 176.2  | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 632000 | 81@40 | CP_16QAM   | 25.79 | -2.25 | 23.54 | 225.94 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 632000 | 1@1   | CP_16QAM   | 25.57 | -2.25 | 23.32 | 214.78 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 632000 | 1@160 | CP_16QAM   | 25.22 | -2.25 | 22.97 | 198.15 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 632000 | 162@0 | CP_64QAM   | 24.15 | -2.25 | 21.9  | 154.88 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 632000 | 81@40 | CP_64QAM   | 24.36 | -2.25 | 22.11 | 162.55 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 632000 | 1@1   | CP_64QAM   | 24.29 | -2.25 | 22.04 | 159.96 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 632000 | 1@160 | CP_64QAM   | 23.9  | -2.25 | 21.65 | 146.22 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 632000 | 162@0 | CP_256QAM  | 21.16 | -2.25 | 18.91 | 77.8   | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 632000 | 81@40 | CP_256QAM  | 21.3  | -2.25 | 19.05 | 80.35  | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 632000 | 1@1   | CP_256QAM  | 21.05 | -2.25 | 18.8  | 75.86  | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 632000 | 1@160 | CP_256QAM  | 20.89 | -2.25 | 18.64 | 73.11  | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 633334 | 162@0 | DFT_BPSK   | 27.12 | -2.25 | 24.87 | 306.9  | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 633334 | 81@40 | DFT_BPSK   | 27.68 | -2.25 | 25.43 | 349.14 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 633334 | 1@1   | DFT_BPSK   | 27.45 | -2.25 | 25.2  | 331.13 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 633334 | 1@160 | DFT_BPSK   | 27.03 | -2.25 | 24.78 | 300.61 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 633334 | 162@0 | DFT_QPSK   | 26.59 | -2.25 | 24.34 | 271.64 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 633334 | 81@40 | DFT_QPSK   | 27.7  | -2.25 | 25.45 | 350.75 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 633334 | 1@1   | DFT_QPSK   | 27.52 | -2.25 | 25.27 | 336.51 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 633334 | 1@160 | DFT_QPSK   | 27.05 | -2.25 | 24.8  | 302    | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 633334 | 162@0 | DFT_16QAM  | 25.64 | -2.25 | 23.39 | 218.27 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 633334 | 81@40 | DFT_16QAM  | 26.72 | -2.25 | 24.47 | 279.9  | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 633334 | 1@1   | DFT_16QAM  | 26.35 | -2.25 | 24.1  | 257.04 | 1000 | PASS |



|             |    |    |        |       |            |       |       |       |        |      |      |
|-------------|----|----|--------|-------|------------|-------|-------|-------|--------|------|------|
| DC_12A_n78A | 30 | 60 | 633334 | 1@160 | DFT_16QAM  | 25.93 | -2.25 | 23.68 | 233.35 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 633334 | 162@0 | DFT_64QAM  | 25.09 | -2.25 | 22.84 | 192.31 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 633334 | 81@40 | DFT_64QAM  | 25.23 | -2.25 | 22.98 | 198.61 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 633334 | 1@1   | DFT_64QAM  | 24.87 | -2.25 | 22.62 | 182.81 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 633334 | 1@160 | DFT_64QAM  | 24.38 | -2.25 | 22.13 | 163.31 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 633334 | 162@0 | DFT_256QAM | 23.08 | -2.25 | 20.83 | 121.06 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 633334 | 81@40 | DFT_256QAM | 23.17 | -2.25 | 20.92 | 123.59 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 633334 | 1@1   | DFT_256QAM | 22.99 | -2.25 | 20.74 | 118.58 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 633334 | 1@160 | DFT_256QAM | 22.54 | -2.25 | 20.29 | 106.91 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 633334 | 162@0 | CP_QPSK    | 24.54 | -2.25 | 22.29 | 169.43 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 633334 | 81@40 | CP_QPSK    | 26.13 | -2.25 | 23.88 | 244.34 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 633334 | 1@1   | CP_QPSK    | 26.03 | -2.25 | 23.78 | 238.78 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 633334 | 1@160 | CP_QPSK    | 25.57 | -2.25 | 23.32 | 214.78 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 633334 | 162@0 | CP_16QAM   | 24.58 | -2.25 | 22.33 | 171    | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 633334 | 81@40 | CP_16QAM   | 25.65 | -2.25 | 23.4  | 218.78 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 633334 | 1@1   | CP_16QAM   | 25.66 | -2.25 | 23.41 | 219.28 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 633334 | 1@160 | CP_16QAM   | 25.21 | -2.25 | 22.96 | 197.7  | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 633334 | 162@0 | CP_64QAM   | 24.08 | -2.25 | 21.83 | 152.41 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 633334 | 81@40 | CP_64QAM   | 24.14 | -2.25 | 21.89 | 154.53 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 633334 | 1@1   | CP_64QAM   | 24.25 | -2.25 | 22    | 158.49 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 633334 | 1@160 | CP_64QAM   | 23.77 | -2.25 | 21.52 | 141.91 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 633334 | 162@0 | CP_256QAM  | 21.18 | -2.25 | 18.93 | 78.16  | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 633334 | 81@40 | CP_256QAM  | 21.24 | -2.25 | 18.99 | 79.25  | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 633334 | 1@1   | CP_256QAM  | 21.12 | -2.25 | 18.87 | 77.09  | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 633334 | 1@160 | CP_256QAM  | 20.82 | -2.25 | 18.57 | 71.94  | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 634666 | 162@0 | DFT_BPSK   | 26.9  | -2.25 | 24.65 | 291.74 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 634666 | 81@40 | DFT_BPSK   | 27.5  | -2.25 | 25.25 | 334.97 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 634666 | 1@1   | DFT_BPSK   | 27.36 | -2.25 | 25.11 | 324.34 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 634666 | 1@160 | DFT_BPSK   | 26.78 | -2.25 | 24.53 | 283.79 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 634666 | 162@0 | DFT_QPSK   | 26.42 | -2.25 | 24.17 | 261.22 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 634666 | 81@40 | DFT_QPSK   | 27.53 | -2.25 | 25.28 | 337.29 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 634666 | 1@1   | DFT_QPSK   | 27.45 | -2.25 | 25.2  | 331.13 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 634666 | 1@160 | DFT_QPSK   | 26.81 | -2.25 | 24.56 | 285.76 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 634666 | 162@0 | DFT_16QAM  | 25.47 | -2.25 | 23.22 | 209.89 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 634666 | 81@40 | DFT_16QAM  | 26.55 | -2.25 | 24.3  | 269.15 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 634666 | 1@1   | DFT_16QAM  | 26.25 | -2.25 | 24    | 251.19 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 634666 | 1@160 | DFT_16QAM  | 25.68 | -2.25 | 23.43 | 220.29 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 634666 | 162@0 | DFT_64QAM  | 24.94 | -2.25 | 22.69 | 185.78 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 634666 | 81@40 | DFT_64QAM  | 25.03 | -2.25 | 22.78 | 189.67 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 634666 | 1@1   | DFT_64QAM  | 24.76 | -2.25 | 22.51 | 178.24 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 634666 | 1@160 | DFT_64QAM  | 24.14 | -2.25 | 21.89 | 154.53 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 634666 | 162@0 | DFT_256QAM | 22.89 | -2.25 | 20.64 | 115.88 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 634666 | 81@40 | DFT_256QAM | 23.02 | -2.25 | 20.77 | 119.4  | 1000 | PASS |

|             |    |    |        |       |            |       |       |       |        |      |      |
|-------------|----|----|--------|-------|------------|-------|-------|-------|--------|------|------|
| DC_12A_n78A | 30 | 60 | 634666 | 1@1   | DFT_256QAM | 22.91 | -2.25 | 20.66 | 116.41 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 634666 | 1@160 | DFT_256QAM | 22.31 | -2.25 | 20.06 | 101.39 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 634666 | 162@0 | CP_QPSK    | 24.39 | -2.25 | 22.14 | 163.68 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 634666 | 81@40 | CP_QPSK    | 26.01 | -2.25 | 23.76 | 237.68 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 634666 | 1@1   | CP_QPSK    | 25.96 | -2.25 | 23.71 | 234.96 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 634666 | 1@160 | CP_QPSK    | 25.4  | -2.25 | 23.15 | 206.54 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 634666 | 162@0 | CP_16QAM   | 24.41 | -2.25 | 22.16 | 164.44 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 634666 | 81@40 | CP_16QAM   | 25.5  | -2.25 | 23.25 | 211.35 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 634666 | 1@1   | CP_16QAM   | 25.51 | -2.25 | 23.26 | 211.84 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 634666 | 1@160 | CP_16QAM   | 24.93 | -2.25 | 22.68 | 185.35 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 634666 | 162@0 | CP_64QAM   | 23.9  | -2.25 | 21.65 | 146.22 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 634666 | 81@40 | CP_64QAM   | 24.01 | -2.25 | 21.76 | 149.97 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 634666 | 1@1   | CP_64QAM   | 24.13 | -2.25 | 21.88 | 154.17 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 634666 | 1@160 | CP_64QAM   | 23.54 | -2.25 | 21.29 | 134.59 | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 634666 | 162@0 | CP_256QAM  | 20.99 | -2.25 | 18.74 | 74.82  | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 634666 | 81@40 | CP_256QAM  | 21.07 | -2.25 | 18.82 | 76.21  | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 634666 | 1@1   | CP_256QAM  | 20.98 | -2.25 | 18.73 | 74.64  | 1000 | PASS |
| DC_12A_n78A | 30 | 60 | 634666 | 1@160 | CP_256QAM  | 20.54 | -2.25 | 18.29 | 67.45  | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 632334 | 180@0 | DFT_BPSK   | 27.14 | -2.25 | 24.89 | 308.32 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 632334 | 90@45 | DFT_BPSK   | 27.81 | -2.25 | 25.56 | 359.75 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 632334 | 1@1   | DFT_BPSK   | 27.27 | -2.25 | 25.02 | 317.69 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 632334 | 1@187 | DFT_BPSK   | 26.97 | -2.25 | 24.72 | 296.48 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 632334 | 180@0 | DFT_QPSK   | 26.62 | -2.25 | 24.37 | 273.53 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 632334 | 90@45 | DFT_QPSK   | 27.77 | -2.25 | 25.52 | 356.45 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 632334 | 1@1   | DFT_QPSK   | 27.33 | -2.25 | 25.08 | 322.11 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 632334 | 1@187 | DFT_QPSK   | 27.01 | -2.25 | 24.76 | 299.23 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 632334 | 180@0 | DFT_16QAM  | 25.63 | -2.25 | 23.38 | 217.77 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 632334 | 90@45 | DFT_16QAM  | 26.76 | -2.25 | 24.51 | 282.49 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 632334 | 1@1   | DFT_16QAM  | 26.16 | -2.25 | 23.91 | 246.04 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 632334 | 1@187 | DFT_16QAM  | 25.81 | -2.25 | 23.56 | 226.99 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 632334 | 180@0 | DFT_64QAM  | 25.1  | -2.25 | 22.85 | 192.75 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 632334 | 90@45 | DFT_64QAM  | 25.3  | -2.25 | 23.05 | 201.84 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 632334 | 1@1   | DFT_64QAM  | 24.64 | -2.25 | 22.39 | 173.38 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 632334 | 1@187 | DFT_64QAM  | 24.34 | -2.25 | 22.09 | 161.81 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 632334 | 180@0 | DFT_256QAM | 23.1  | -2.25 | 20.85 | 121.62 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 632334 | 90@45 | DFT_256QAM | 23.24 | -2.25 | 20.99 | 125.6  | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 632334 | 1@1   | DFT_256QAM | 22.83 | -2.25 | 20.58 | 114.29 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 632334 | 1@187 | DFT_256QAM | 22.51 | -2.25 | 20.26 | 106.17 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 632334 | 189@0 | CP_QPSK    | 24.57 | -2.25 | 22.32 | 170.61 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 632334 | 95@47 | CP_QPSK    | 26.25 | -2.25 | 24    | 251.19 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 632334 | 1@1   | CP_QPSK    | 25.78 | -2.25 | 23.53 | 225.42 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 632334 | 1@187 | CP_QPSK    | 25.5  | -2.25 | 23.25 | 211.35 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 632334 | 189@0 | CP_16QAM   | 24.56 | -2.25 | 22.31 | 170.22 | 1000 | PASS |

|             |    |    |        |       |            |       |       |       |        |      |      |
|-------------|----|----|--------|-------|------------|-------|-------|-------|--------|------|------|
| DC_12A_n78A | 30 | 70 | 632334 | 95@47 | CP_16QAM   | 25.81 | -2.25 | 23.56 | 226.99 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 632334 | 1@1   | CP_16QAM   | 25.45 | -2.25 | 23.2  | 208.93 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 632334 | 1@187 | CP_16QAM   | 25.13 | -2.25 | 22.88 | 194.09 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 632334 | 189@0 | CP_64QAM   | 24.07 | -2.25 | 21.82 | 152.05 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 632334 | 95@47 | CP_64QAM   | 24.23 | -2.25 | 21.98 | 157.76 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 632334 | 1@1   | CP_64QAM   | 24.02 | -2.25 | 21.77 | 150.31 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 632334 | 1@187 | CP_64QAM   | 23.69 | -2.25 | 21.44 | 139.32 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 632334 | 189@0 | CP_256QAM  | 20.99 | -2.25 | 18.74 | 74.82  | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 632334 | 95@47 | CP_256QAM  | 21.19 | -2.25 | 18.94 | 78.34  | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 632334 | 1@1   | CP_256QAM  | 20.86 | -2.25 | 18.61 | 72.61  | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 632334 | 1@187 | CP_256QAM  | 20.75 | -2.25 | 18.5  | 70.79  | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 633334 | 180@0 | DFT_BPSK   | 27.08 | -2.25 | 24.83 | 304.09 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 633334 | 90@45 | DFT_BPSK   | 27.69 | -2.25 | 25.44 | 349.95 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 633334 | 1@1   | DFT_BPSK   | 27.27 | -2.25 | 25.02 | 317.69 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 633334 | 1@187 | DFT_BPSK   | 26.82 | -2.25 | 24.57 | 286.42 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 633334 | 180@0 | DFT_QPSK   | 26.61 | -2.25 | 24.36 | 272.9  | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 633334 | 90@45 | DFT_QPSK   | 27.7  | -2.25 | 25.45 | 350.75 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 633334 | 1@1   | DFT_QPSK   | 27.3  | -2.25 | 25.05 | 319.89 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 633334 | 1@187 | DFT_QPSK   | 26.85 | -2.25 | 24.6  | 288.4  | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 633334 | 180@0 | DFT_16QAM  | 25.57 | -2.25 | 23.32 | 214.78 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 633334 | 90@45 | DFT_16QAM  | 26.69 | -2.25 | 24.44 | 277.97 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 633334 | 1@1   | DFT_16QAM  | 26.19 | -2.25 | 23.94 | 247.74 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 633334 | 1@187 | DFT_16QAM  | 25.69 | -2.25 | 23.44 | 220.8  | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 633334 | 180@0 | DFT_64QAM  | 25.07 | -2.25 | 22.82 | 191.43 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 633334 | 90@45 | DFT_64QAM  | 25.21 | -2.25 | 22.96 | 197.7  | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 633334 | 1@1   | DFT_64QAM  | 24.65 | -2.25 | 22.4  | 173.78 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 633334 | 1@187 | DFT_64QAM  | 24.18 | -2.25 | 21.93 | 155.96 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 633334 | 180@0 | DFT_256QAM | 23.07 | -2.25 | 20.82 | 120.78 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 633334 | 90@45 | DFT_256QAM | 23.16 | -2.25 | 20.91 | 123.31 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 633334 | 1@1   | DFT_256QAM | 22.76 | -2.25 | 20.51 | 112.46 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 633334 | 1@187 | DFT_256QAM | 22.28 | -2.25 | 20.03 | 100.69 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 633334 | 189@0 | CP_QPSK    | 24.55 | -2.25 | 22.3  | 169.82 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 633334 | 95@47 | CP_QPSK    | 26.17 | -2.25 | 23.92 | 246.6  | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 633334 | 1@1   | CP_QPSK    | 25.89 | -2.25 | 23.64 | 231.21 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 633334 | 1@187 | CP_QPSK    | 25.43 | -2.25 | 23.18 | 207.97 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 633334 | 189@0 | CP_16QAM   | 24.53 | -2.25 | 22.28 | 169.04 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 633334 | 95@47 | CP_16QAM   | 25.67 | -2.25 | 23.42 | 219.79 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 633334 | 1@1   | CP_16QAM   | 25.49 | -2.25 | 23.24 | 210.86 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 633334 | 1@187 | CP_16QAM   | 24.96 | -2.25 | 22.71 | 186.64 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 633334 | 189@0 | CP_64QAM   | 24.05 | -2.25 | 21.8  | 151.36 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 633334 | 95@47 | CP_64QAM   | 24.14 | -2.25 | 21.89 | 154.53 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 633334 | 1@1   | CP_64QAM   | 24.03 | -2.25 | 21.78 | 150.66 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 633334 | 1@187 | CP_64QAM   | 23.56 | -2.25 | 21.31 | 135.21 | 1000 | PASS |

|             |    |    |        |        |            |       |       |       |        |      |      |
|-------------|----|----|--------|--------|------------|-------|-------|-------|--------|------|------|
| DC_12A_n78A | 30 | 70 | 633334 | 189@0  | CP_256QAM  | 21.13 | -2.25 | 18.88 | 77.27  | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 633334 | 95@47  | CP_256QAM  | 21.26 | -2.25 | 19.01 | 79.62  | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 633334 | 1@1    | CP_256QAM  | 20.75 | -2.25 | 18.5  | 70.79  | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 633334 | 1@187  | CP_256QAM  | 20.55 | -2.25 | 18.3  | 67.61  | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 634332 | 180@0  | DFT_BPSK   | 26.99 | -2.25 | 24.74 | 297.85 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 634332 | 90@45  | DFT_BPSK   | 27.65 | -2.25 | 25.4  | 346.74 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 634332 | 1@1    | DFT_BPSK   | 27.36 | -2.25 | 25.11 | 324.34 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 634332 | 1@187  | DFT_BPSK   | 26.69 | -2.25 | 24.44 | 277.97 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 634332 | 180@0  | DFT_QPSK   | 26.53 | -2.25 | 24.28 | 267.92 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 634332 | 90@45  | DFT_QPSK   | 27.62 | -2.25 | 25.37 | 344.35 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 634332 | 1@1    | DFT_QPSK   | 27.44 | -2.25 | 25.19 | 330.37 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 634332 | 1@187  | DFT_QPSK   | 26.66 | -2.25 | 24.41 | 276.06 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 634332 | 180@0  | DFT_16QAM  | 25.53 | -2.25 | 23.28 | 212.81 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 634332 | 90@45  | DFT_16QAM  | 26.6  | -2.25 | 24.35 | 272.27 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 634332 | 1@1    | DFT_16QAM  | 26.24 | -2.25 | 23.99 | 250.61 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 634332 | 1@187  | DFT_16QAM  | 25.53 | -2.25 | 23.28 | 212.81 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 634332 | 180@0  | DFT_64QAM  | 24.97 | -2.25 | 22.72 | 187.07 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 634332 | 90@45  | DFT_64QAM  | 25.12 | -2.25 | 22.87 | 193.64 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 634332 | 1@1    | DFT_64QAM  | 24.74 | -2.25 | 22.49 | 177.42 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 634332 | 1@187  | DFT_64QAM  | 24.03 | -2.25 | 21.78 | 150.66 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 634332 | 180@0  | DFT_256QAM | 23    | -2.25 | 20.75 | 118.85 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 634332 | 90@45  | DFT_256QAM | 23.06 | -2.25 | 20.81 | 120.5  | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 634332 | 1@1    | DFT_256QAM | 22.84 | -2.25 | 20.59 | 114.55 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 634332 | 1@187  | DFT_256QAM | 22.17 | -2.25 | 19.92 | 98.17  | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 634332 | 189@0  | CP_QPSK    | 24.47 | -2.25 | 22.22 | 166.72 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 634332 | 95@47  | CP_QPSK    | 26.09 | -2.25 | 23.84 | 242.1  | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 634332 | 1@1    | CP_QPSK    | 25.93 | -2.25 | 23.68 | 233.35 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 634332 | 1@187  | CP_QPSK    | 25.24 | -2.25 | 22.99 | 199.07 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 634332 | 189@0  | CP_16QAM   | 24.44 | -2.25 | 22.19 | 165.58 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 634332 | 95@47  | CP_16QAM   | 25.6  | -2.25 | 23.35 | 216.27 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 634332 | 1@1    | CP_16QAM   | 25.55 | -2.25 | 23.3  | 213.8  | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 634332 | 1@187  | CP_16QAM   | 24.89 | -2.25 | 22.64 | 183.65 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 634332 | 189@0  | CP_64QAM   | 23.95 | -2.25 | 21.7  | 147.91 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 634332 | 95@47  | CP_64QAM   | 24.05 | -2.25 | 21.8  | 151.36 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 634332 | 1@1    | CP_64QAM   | 24.09 | -2.25 | 21.84 | 152.76 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 634332 | 1@187  | CP_64QAM   | 23.39 | -2.25 | 21.14 | 130.02 | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 634332 | 189@0  | CP_256QAM  | 21.07 | -2.25 | 18.82 | 76.21  | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 634332 | 95@47  | CP_256QAM  | 21.15 | -2.25 | 18.9  | 77.62  | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 634332 | 1@1    | CP_256QAM  | 20.91 | -2.25 | 18.66 | 73.45  | 1000 | PASS |
| DC_12A_n78A | 30 | 70 | 634332 | 1@187  | CP_256QAM  | 20.52 | -2.25 | 18.27 | 67.14  | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 632668 | 216@0  | DFT_BPSK   | 27.06 | -2.25 | 24.81 | 302.69 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 632668 | 108@54 | DFT_BPSK   | 27.75 | -2.25 | 25.5  | 354.81 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 632668 | 1@1    | DFT_BPSK   | 27.18 | -2.25 | 24.93 | 311.17 | 1000 | PASS |

|             |    |    |        |        |            |       |       |       |        |      |      |
|-------------|----|----|--------|--------|------------|-------|-------|-------|--------|------|------|
| DC_12A_n78A | 30 | 80 | 632668 | 1@215  | DFT_BPSK   | 26.72 | -2.25 | 24.47 | 279.9  | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 632668 | 216@0  | DFT_QPSK   | 26.58 | -2.25 | 24.33 | 271.02 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 632668 | 108@54 | DFT_QPSK   | 27.81 | -2.25 | 25.56 | 359.75 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 632668 | 1@1    | DFT_QPSK   | 27.24 | -2.25 | 24.99 | 315.5  | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 632668 | 1@215  | DFT_QPSK   | 26.8  | -2.25 | 24.55 | 285.1  | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 632668 | 216@0  | DFT_16QAM  | 25.58 | -2.25 | 23.33 | 215.28 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 632668 | 108@54 | DFT_16QAM  | 26.79 | -2.25 | 24.54 | 284.45 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 632668 | 1@1    | DFT_16QAM  | 26.05 | -2.25 | 23.8  | 239.88 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 632668 | 1@215  | DFT_16QAM  | 25.58 | -2.25 | 23.33 | 215.28 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 632668 | 216@0  | DFT_64QAM  | 25.04 | -2.25 | 22.79 | 190.11 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 632668 | 108@54 | DFT_64QAM  | 25.28 | -2.25 | 23.03 | 200.91 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 632668 | 1@1    | DFT_64QAM  | 24.54 | -2.25 | 22.29 | 169.43 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 632668 | 1@215  | DFT_64QAM  | 24.12 | -2.25 | 21.87 | 153.82 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 632668 | 216@0  | DFT_256QAM | 23.07 | -2.25 | 20.82 | 120.78 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 632668 | 108@54 | DFT_256QAM | 23.22 | -2.25 | 20.97 | 125.03 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 632668 | 1@1    | DFT_256QAM | 22.68 | -2.25 | 20.43 | 110.41 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 632668 | 1@215  | DFT_256QAM | 22.27 | -2.25 | 20.02 | 100.46 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 632668 | 217@0  | CP_QPSK    | 24.56 | -2.25 | 22.31 | 170.22 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 632668 | 109@54 | CP_QPSK    | 26.28 | -2.25 | 24.03 | 252.93 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 632668 | 1@1    | CP_QPSK    | 25.74 | -2.25 | 23.49 | 223.36 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 632668 | 1@215  | CP_QPSK    | 25.32 | -2.25 | 23.07 | 202.77 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 632668 | 217@0  | CP_16QAM   | 24.57 | -2.25 | 22.32 | 170.61 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 632668 | 109@54 | CP_16QAM   | 25.79 | -2.25 | 23.54 | 225.94 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 632668 | 1@1    | CP_16QAM   | 25.32 | -2.25 | 23.07 | 202.77 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 632668 | 1@215  | CP_16QAM   | 24.86 | -2.25 | 22.61 | 182.39 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 632668 | 217@0  | CP_64QAM   | 24.06 | -2.25 | 21.81 | 151.71 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 632668 | 109@54 | CP_64QAM   | 24.24 | -2.25 | 21.99 | 158.12 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 632668 | 1@1    | CP_64QAM   | 23.9  | -2.25 | 21.65 | 146.22 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 632668 | 1@215  | CP_64QAM   | 23.43 | -2.25 | 21.18 | 131.22 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 632668 | 217@0  | CP_256QAM  | 21    | -2.25 | 18.75 | 74.99  | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 632668 | 109@54 | CP_256QAM  | 21.17 | -2.25 | 18.92 | 77.98  | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 632668 | 1@1    | CP_256QAM  | 20.79 | -2.25 | 18.54 | 71.45  | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 632668 | 1@215  | CP_256QAM  | 20.65 | -2.25 | 18.4  | 69.18  | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 633334 | 216@0  | DFT_BPSK   | 27.01 | -2.25 | 24.76 | 299.23 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 633334 | 108@54 | DFT_BPSK   | 27.75 | -2.25 | 25.5  | 354.81 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 633334 | 1@1    | DFT_BPSK   | 27.13 | -2.25 | 24.88 | 307.61 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 633334 | 1@215  | DFT_BPSK   | 26.56 | -2.25 | 24.31 | 269.77 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 633334 | 216@0  | DFT_QPSK   | 26.53 | -2.25 | 24.28 | 267.92 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 633334 | 108@54 | DFT_QPSK   | 27.67 | -2.25 | 25.42 | 348.34 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 633334 | 1@1    | DFT_QPSK   | 27.19 | -2.25 | 24.94 | 311.89 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 633334 | 1@215  | DFT_QPSK   | 26.61 | -2.25 | 24.36 | 272.9  | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 633334 | 216@0  | DFT_16QAM  | 25.54 | -2.25 | 23.29 | 213.3  | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 633334 | 108@54 | DFT_16QAM  | 26.71 | -2.25 | 24.46 | 279.25 | 1000 | PASS |



|             |    |    |        |        |            |       |       |       |        |      |      |
|-------------|----|----|--------|--------|------------|-------|-------|-------|--------|------|------|
| DC_12A_n78A | 30 | 80 | 633334 | 1@1    | DFT_16QAM  | 25.99 | -2.25 | 23.74 | 236.59 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 633334 | 1@215  | DFT_16QAM  | 25.41 | -2.25 | 23.16 | 207.01 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 633334 | 216@0  | DFT_64QAM  | 25.02 | -2.25 | 22.77 | 189.23 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 633334 | 108@54 | DFT_64QAM  | 25.16 | -2.25 | 22.91 | 195.43 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 633334 | 1@1    | DFT_64QAM  | 24.5  | -2.25 | 22.25 | 167.88 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 633334 | 1@215  | DFT_64QAM  | 23.95 | -2.25 | 21.7  | 147.91 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 633334 | 216@0  | DFT_256QAM | 23.01 | -2.25 | 20.76 | 119.12 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 633334 | 108@54 | DFT_256QAM | 23.13 | -2.25 | 20.88 | 122.46 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 633334 | 1@1    | DFT_256QAM | 22.65 | -2.25 | 20.4  | 109.65 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 633334 | 1@215  | DFT_256QAM | 22.1  | -2.25 | 19.85 | 96.61  | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 633334 | 217@0  | CP_QPSK    | 24.53 | -2.25 | 22.28 | 169.04 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 633334 | 109@54 | CP_QPSK    | 26.18 | -2.25 | 23.93 | 247.17 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 633334 | 1@1    | CP_QPSK    | 25.71 | -2.25 | 23.46 | 221.82 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 633334 | 1@215  | CP_QPSK    | 25.1  | -2.25 | 22.85 | 192.75 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 633334 | 217@0  | CP_16QAM   | 24.5  | -2.25 | 22.25 | 167.88 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 633334 | 109@54 | CP_16QAM   | 25.7  | -2.25 | 23.45 | 221.31 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 633334 | 1@1    | CP_16QAM   | 25.29 | -2.25 | 23.04 | 201.37 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 633334 | 1@215  | CP_16QAM   | 24.69 | -2.25 | 22.44 | 175.39 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 633334 | 217@0  | CP_64QAM   | 23.98 | -2.25 | 21.73 | 148.94 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 633334 | 109@54 | CP_64QAM   | 24.13 | -2.25 | 21.88 | 154.17 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 633334 | 1@1    | CP_64QAM   | 23.85 | -2.25 | 21.6  | 144.54 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 633334 | 1@215  | CP_64QAM   | 23.29 | -2.25 | 21.04 | 127.06 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 633334 | 217@0  | CP_256QAM  | 21.13 | -2.25 | 18.88 | 77.27  | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 633334 | 109@54 | CP_256QAM  | 21.28 | -2.25 | 19.03 | 79.98  | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 633334 | 1@1    | CP_256QAM  | 20.77 | -2.25 | 18.52 | 71.12  | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 633334 | 1@215  | CP_256QAM  | 20.51 | -2.25 | 18.26 | 66.99  | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 634000 | 216@0  | DFT_BPSK   | 26.95 | -2.25 | 24.7  | 295.12 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 634000 | 108@54 | DFT_BPSK   | 27.57 | -2.25 | 25.32 | 340.41 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 634000 | 1@1    | DFT_BPSK   | 27.11 | -2.25 | 24.86 | 306.2  | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 634000 | 1@215  | DFT_BPSK   | 26.47 | -2.25 | 24.22 | 264.24 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 634000 | 216@0  | DFT_QPSK   | 26.45 | -2.25 | 24.2  | 263.03 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 634000 | 108@54 | DFT_QPSK   | 27.6  | -2.25 | 25.35 | 342.77 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 634000 | 1@1    | DFT_QPSK   | 27.23 | -2.25 | 24.98 | 314.77 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 634000 | 1@215  | DFT_QPSK   | 26.51 | -2.25 | 24.26 | 266.69 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 634000 | 216@0  | DFT_16QAM  | 25.47 | -2.25 | 23.22 | 209.89 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 634000 | 108@54 | DFT_16QAM  | 26.58 | -2.25 | 24.33 | 271.02 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 634000 | 1@1    | DFT_16QAM  | 26.06 | -2.25 | 23.81 | 240.44 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 634000 | 1@215  | DFT_16QAM  | 25.38 | -2.25 | 23.13 | 205.59 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 634000 | 216@0  | DFT_64QAM  | 24.91 | -2.25 | 22.66 | 184.5  | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 634000 | 108@54 | DFT_64QAM  | 25.08 | -2.25 | 22.83 | 191.87 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 634000 | 1@1    | DFT_64QAM  | 24.55 | -2.25 | 22.3  | 169.82 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 634000 | 1@215  | DFT_64QAM  | 23.87 | -2.25 | 21.62 | 145.21 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 634000 | 216@0  | DFT_256QAM | 22.93 | -2.25 | 20.68 | 116.95 | 1000 | PASS |

|             |    |    |        |        |            |       |       |       |        |      |      |
|-------------|----|----|--------|--------|------------|-------|-------|-------|--------|------|------|
| DC_12A_n78A | 30 | 80 | 634000 | 108@54 | DFT_256QAM | 23.07 | -2.25 | 20.82 | 120.78 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 634000 | 1@1    | DFT_256QAM | 22.66 | -2.25 | 20.41 | 109.9  | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 634000 | 1@215  | DFT_256QAM | 22.03 | -2.25 | 19.78 | 95.06  | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 634000 | 217@0  | CP_QPSK    | 24.45 | -2.25 | 22.2  | 165.96 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 634000 | 109@54 | CP_QPSK    | 26.06 | -2.25 | 23.81 | 240.44 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 634000 | 1@1    | CP_QPSK    | 25.75 | -2.25 | 23.5  | 223.87 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 634000 | 1@215  | CP_QPSK    | 25.1  | -2.25 | 22.85 | 192.75 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 634000 | 217@0  | CP_16QAM   | 24.41 | -2.25 | 22.16 | 164.44 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 634000 | 109@54 | CP_16QAM   | 25.57 | -2.25 | 23.32 | 214.78 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 634000 | 1@1    | CP_16QAM   | 25.34 | -2.25 | 23.09 | 203.7  | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 634000 | 1@215  | CP_16QAM   | 24.66 | -2.25 | 22.41 | 174.18 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 634000 | 217@0  | CP_64QAM   | 23.95 | -2.25 | 21.7  | 147.91 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 634000 | 109@54 | CP_64QAM   | 24.05 | -2.25 | 21.8  | 151.36 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 634000 | 1@1    | CP_64QAM   | 23.89 | -2.25 | 21.64 | 145.88 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 634000 | 1@215  | CP_64QAM   | 23.22 | -2.25 | 20.97 | 125.03 | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 634000 | 217@0  | CP_256QAM  | 21.03 | -2.25 | 18.78 | 75.51  | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 634000 | 109@54 | CP_256QAM  | 21.19 | -2.25 | 18.94 | 78.34  | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 634000 | 1@1    | CP_256QAM  | 20.58 | -2.25 | 18.33 | 68.08  | 1000 | PASS |
| DC_12A_n78A | 30 | 80 | 634000 | 1@215  | CP_256QAM  | 20.23 | -2.25 | 17.98 | 62.81  | 1000 | PASS |
| DC_12A_n78A | 30 | 90 | 633000 | 243@0  | DFT_BPSK   | 26.96 | -2.25 | 24.71 | 295.8  | 1000 | PASS |
| DC_12A_n78A | 30 | 90 | 633000 | 120@60 | DFT_BPSK   | 27.65 | -2.25 | 25.4  | 346.74 | 1000 | PASS |
| DC_12A_n78A | 30 | 90 | 633000 | 1@1    | DFT_BPSK   | 26.98 | -2.25 | 24.73 | 297.17 | 1000 | PASS |
| DC_12A_n78A | 30 | 90 | 633000 | 1@243  | DFT_BPSK   | 26.43 | -2.25 | 24.18 | 261.82 | 1000 | PASS |
| DC_12A_n78A | 30 | 90 | 633000 | 243@0  | DFT_QPSK   | 26.49 | -2.25 | 24.24 | 265.46 | 1000 | PASS |
| DC_12A_n78A | 30 | 90 | 633000 | 120@60 | DFT_QPSK   | 27.69 | -2.25 | 25.44 | 349.95 | 1000 | PASS |
| DC_12A_n78A | 30 | 90 | 633000 | 1@1    | DFT_QPSK   | 27.08 | -2.25 | 24.83 | 304.09 | 1000 | PASS |
| DC_12A_n78A | 30 | 90 | 633000 | 1@243  | DFT_QPSK   | 26.48 | -2.25 | 24.23 | 264.85 | 1000 | PASS |
| DC_12A_n78A | 30 | 90 | 633000 | 243@0  | DFT_16QAM  | 25.49 | -2.25 | 23.24 | 210.86 | 1000 | PASS |
| DC_12A_n78A | 30 | 90 | 633000 | 120@60 | DFT_16QAM  | 26.65 | -2.25 | 24.4  | 275.42 | 1000 | PASS |
| DC_12A_n78A | 30 | 90 | 633000 | 1@1    | DFT_16QAM  | 25.86 | -2.25 | 23.61 | 229.61 | 1000 | PASS |
| DC_12A_n78A | 30 | 90 | 633000 | 1@243  | DFT_16QAM  | 25.26 | -2.25 | 23.01 | 199.99 | 1000 | PASS |
| DC_12A_n78A | 30 | 90 | 633000 | 243@0  | DFT_64QAM  | 25.01 | -2.25 | 22.76 | 188.8  | 1000 | PASS |
| DC_12A_n78A | 30 | 90 | 633000 | 120@60 | DFT_64QAM  | 25.18 | -2.25 | 22.93 | 196.34 | 1000 | PASS |
| DC_12A_n78A | 30 | 90 | 633000 | 1@1    | DFT_64QAM  | 24.33 | -2.25 | 22.08 | 161.44 | 1000 | PASS |
| DC_12A_n78A | 30 | 90 | 633000 | 1@243  | DFT_64QAM  | 23.81 | -2.25 | 21.56 | 143.22 | 1000 | PASS |
| DC_12A_n78A | 30 | 90 | 633000 | 243@0  | DFT_256QAM | 22.95 | -2.25 | 20.7  | 117.49 | 1000 | PASS |
| DC_12A_n78A | 30 | 90 | 633000 | 120@60 | DFT_256QAM | 23.16 | -2.25 | 20.91 | 123.31 | 1000 | PASS |
| DC_12A_n78A | 30 | 90 | 633000 | 1@1    | DFT_256QAM | 22.48 | -2.25 | 20.23 | 105.44 | 1000 | PASS |
| DC_12A_n78A | 30 | 90 | 633000 | 1@243  | DFT_256QAM | 21.9  | -2.25 | 19.65 | 92.26  | 1000 | PASS |
| DC_12A_n78A | 30 | 90 | 633000 | 245@0  | CP_QPSK    | 24.43 | -2.25 | 22.18 | 165.2  | 1000 | PASS |
| DC_12A_n78A | 30 | 90 | 633000 | 123@61 | CP_QPSK    | 26.14 | -2.25 | 23.89 | 244.91 | 1000 | PASS |
| DC_12A_n78A | 30 | 90 | 633000 | 1@1    | CP_QPSK    | 25.49 | -2.25 | 23.24 | 210.86 | 1000 | PASS |
| DC_12A_n78A | 30 | 90 | 633000 | 1@243  | CP_QPSK    | 24.91 | -2.25 | 22.66 | 184.5  | 1000 | PASS |

|             |    |    |        |        |            |       |       |       |        |      |      |
|-------------|----|----|--------|--------|------------|-------|-------|-------|--------|------|------|
| DC_12A_n78A | 30 | 90 | 633000 | 245@0  | CP_16QAM   | 24.45 | -2.25 | 22.2  | 165.96 | 1000 | PASS |
| DC_12A_n78A | 30 | 90 | 633000 | 123@61 | CP_16QAM   | 25.62 | -2.25 | 23.37 | 217.27 | 1000 | PASS |
| DC_12A_n78A | 30 | 90 | 633000 | 1@1    | CP_16QAM   | 25.13 | -2.25 | 22.88 | 194.09 | 1000 | PASS |
| DC_12A_n78A | 30 | 90 | 633000 | 1@243  | CP_16QAM   | 24.52 | -2.25 | 22.27 | 168.66 | 1000 | PASS |
| DC_12A_n78A | 30 | 90 | 633000 | 245@0  | CP_64QAM   | 23.92 | -2.25 | 21.67 | 146.89 | 1000 | PASS |
| DC_12A_n78A | 30 | 90 | 633000 | 123@61 | CP_64QAM   | 24.13 | -2.25 | 21.88 | 154.17 | 1000 | PASS |
| DC_12A_n78A | 30 | 90 | 633000 | 1@1    | CP_64QAM   | 23.69 | -2.25 | 21.44 | 139.32 | 1000 | PASS |
| DC_12A_n78A | 30 | 90 | 633000 | 1@243  | CP_64QAM   | 23.08 | -2.25 | 20.83 | 121.06 | 1000 | PASS |
| DC_12A_n78A | 30 | 90 | 633000 | 245@0  | CP_256QAM  | 21.1  | -2.25 | 18.85 | 76.74  | 1000 | PASS |
| DC_12A_n78A | 30 | 90 | 633000 | 123@61 | CP_256QAM  | 21.06 | -2.25 | 18.81 | 76.03  | 1000 | PASS |
| DC_12A_n78A | 30 | 90 | 633000 | 1@1    | CP_256QAM  | 20.5  | -2.25 | 18.25 | 66.83  | 1000 | PASS |
| DC_12A_n78A | 30 | 90 | 633000 | 1@243  | CP_256QAM  | 20.27 | -2.25 | 18.02 | 63.39  | 1000 | PASS |
| DC_12A_n78A | 30 | 90 | 633334 | 243@0  | DFT_BPSK   | 26.98 | -2.25 | 24.73 | 297.17 | 1000 | PASS |
| DC_12A_n78A | 30 | 90 | 633334 | 120@60 | DFT_BPSK   | 27.66 | -2.25 | 25.41 | 347.54 | 1000 | PASS |
| DC_12A_n78A | 30 | 90 | 633334 | 1@1    | DFT_BPSK   | 26.96 | -2.25 | 24.71 | 295.8  | 1000 | PASS |
| DC_12A_n78A | 30 | 90 | 633334 | 1@243  | DFT_BPSK   | 26.36 | -2.25 | 24.11 | 257.63 | 1000 | PASS |
| DC_12A_n78A | 30 | 90 | 633334 | 243@0  | DFT_QPSK   | 26.47 | -2.25 | 24.22 | 264.24 | 1000 | PASS |
| DC_12A_n78A | 30 | 90 | 633334 | 120@60 | DFT_QPSK   | 27.66 | -2.25 | 25.41 | 347.54 | 1000 | PASS |
| DC_12A_n78A | 30 | 90 | 633334 | 1@1    | DFT_QPSK   | 27.1  | -2.25 | 24.85 | 305.49 | 1000 | PASS |
| DC_12A_n78A | 30 | 90 | 633334 | 1@243  | DFT_QPSK   | 26.43 | -2.25 | 24.18 | 261.82 | 1000 | PASS |
| DC_12A_n78A | 30 | 90 | 633334 | 243@0  | DFT_16QAM  | 25.47 | -2.25 | 23.22 | 209.89 | 1000 | PASS |
| DC_12A_n78A | 30 | 90 | 633334 | 120@60 | DFT_16QAM  | 26.65 | -2.25 | 24.4  | 275.42 | 1000 | PASS |
| DC_12A_n78A | 30 | 90 | 633334 | 1@1    | DFT_16QAM  | 25.83 | -2.25 | 23.58 | 228.03 | 1000 | PASS |
| DC_12A_n78A | 30 | 90 | 633334 | 1@243  | DFT_16QAM  | 25.23 | -2.25 | 22.98 | 198.61 | 1000 | PASS |
| DC_12A_n78A | 30 | 90 | 633334 | 243@0  | DFT_64QAM  | 24.97 | -2.25 | 22.72 | 187.07 | 1000 | PASS |
| DC_12A_n78A | 30 | 90 | 633334 | 120@60 | DFT_64QAM  | 25.17 | -2.25 | 22.92 | 195.88 | 1000 | PASS |
| DC_12A_n78A | 30 | 90 | 633334 | 1@1    | DFT_64QAM  | 24.33 | -2.25 | 22.08 | 161.44 | 1000 | PASS |
| DC_12A_n78A | 30 | 90 | 633334 | 1@243  | DFT_64QAM  | 23.68 | -2.25 | 21.43 | 139    | 1000 | PASS |
| DC_12A_n78A | 30 | 90 | 633334 | 243@0  | DFT_256QAM | 22.94 | -2.25 | 20.69 | 117.22 | 1000 | PASS |
| DC_12A_n78A | 30 | 90 | 633334 | 120@60 | DFT_256QAM | 23.16 | -2.25 | 20.91 | 123.31 | 1000 | PASS |
| DC_12A_n78A | 30 | 90 | 633334 | 1@1    | DFT_256QAM | 22.49 | -2.25 | 20.24 | 105.68 | 1000 | PASS |
| DC_12A_n78A | 30 | 90 | 633334 | 1@243  | DFT_256QAM | 21.9  | -2.25 | 19.65 | 92.26  | 1000 | PASS |
| DC_12A_n78A | 30 | 90 | 633334 | 245@0  | CP_QPSK    | 24.45 | -2.25 | 22.2  | 165.96 | 1000 | PASS |
| DC_12A_n78A | 30 | 90 | 633334 | 123@61 | CP_QPSK    | 26.13 | -2.25 | 23.88 | 244.34 | 1000 | PASS |
| DC_12A_n78A | 30 | 90 | 633334 | 1@1    | CP_QPSK    | 25.55 | -2.25 | 23.3  | 213.8  | 1000 | PASS |
| DC_12A_n78A | 30 | 90 | 633334 | 1@243  | CP_QPSK    | 24.93 | -2.25 | 22.68 | 185.35 | 1000 | PASS |
| DC_12A_n78A | 30 | 90 | 633334 | 245@0  | CP_16QAM   | 24.43 | -2.25 | 22.18 | 165.2  | 1000 | PASS |
| DC_12A_n78A | 30 | 90 | 633334 | 123@61 | CP_16QAM   | 25.61 | -2.25 | 23.36 | 216.77 | 1000 | PASS |
| DC_12A_n78A | 30 | 90 | 633334 | 1@1    | CP_16QAM   | 25.16 | -2.25 | 22.91 | 195.43 | 1000 | PASS |
| DC_12A_n78A | 30 | 90 | 633334 | 1@243  | CP_16QAM   | 24.51 | -2.25 | 22.26 | 168.27 | 1000 | PASS |
| DC_12A_n78A | 30 | 90 | 633334 | 245@0  | CP_64QAM   | 23.93 | -2.25 | 21.68 | 147.23 | 1000 | PASS |
| DC_12A_n78A | 30 | 90 | 633334 | 123@61 | CP_64QAM   | 24.11 | -2.25 | 21.86 | 153.46 | 1000 | PASS |
| DC_12A_n78A | 30 | 90 | 633334 | 1@1    | CP_64QAM   | 23.7  | -2.25 | 21.45 | 139.64 | 1000 | PASS |

|             |    |     |        |        |            |       |       |       |        |      |      |
|-------------|----|-----|--------|--------|------------|-------|-------|-------|--------|------|------|
| DC_12A_n78A | 30 | 90  | 633334 | 1@243  | CP_64QAM   | 23.04 | -2.25 | 20.79 | 119.95 | 1000 | PASS |
| DC_12A_n78A | 30 | 90  | 633334 | 245@0  | CP_256QAM  | 21.09 | -2.25 | 18.84 | 76.56  | 1000 | PASS |
| DC_12A_n78A | 30 | 90  | 633334 | 123@61 | CP_256QAM  | 21.22 | -2.25 | 18.97 | 78.89  | 1000 | PASS |
| DC_12A_n78A | 30 | 90  | 633334 | 1@1    | CP_256QAM  | 20.53 | -2.25 | 18.28 | 67.3   | 1000 | PASS |
| DC_12A_n78A | 30 | 90  | 633334 | 1@243  | CP_256QAM  | 20.27 | -2.25 | 18.02 | 63.39  | 1000 | PASS |
| DC_12A_n78A | 30 | 90  | 633666 | 243@0  | DFT_BPSK   | 26.97 | -2.25 | 24.72 | 296.48 | 1000 | PASS |
| DC_12A_n78A | 30 | 90  | 633666 | 120@60 | DFT_BPSK   | 27.66 | -2.25 | 25.41 | 347.54 | 1000 | PASS |
| DC_12A_n78A | 30 | 90  | 633666 | 1@1    | DFT_BPSK   | 27.02 | -2.25 | 24.77 | 299.92 | 1000 | PASS |
| DC_12A_n78A | 30 | 90  | 633666 | 1@243  | DFT_BPSK   | 26.35 | -2.25 | 24.1  | 257.04 | 1000 | PASS |
| DC_12A_n78A | 30 | 90  | 633666 | 243@0  | DFT_QPSK   | 26.51 | -2.25 | 24.26 | 266.69 | 1000 | PASS |
| DC_12A_n78A | 30 | 90  | 633666 | 120@60 | DFT_QPSK   | 27.67 | -2.25 | 25.42 | 348.34 | 1000 | PASS |
| DC_12A_n78A | 30 | 90  | 633666 | 1@1    | DFT_QPSK   | 27.16 | -2.25 | 24.91 | 309.74 | 1000 | PASS |
| DC_12A_n78A | 30 | 90  | 633666 | 1@243  | DFT_QPSK   | 26.43 | -2.25 | 24.18 | 261.82 | 1000 | PASS |
| DC_12A_n78A | 30 | 90  | 633666 | 243@0  | DFT_16QAM  | 25.49 | -2.25 | 23.24 | 210.86 | 1000 | PASS |
| DC_12A_n78A | 30 | 90  | 633666 | 120@60 | DFT_16QAM  | 26.68 | -2.25 | 24.43 | 277.33 | 1000 | PASS |
| DC_12A_n78A | 30 | 90  | 633666 | 1@1    | DFT_16QAM  | 25.92 | -2.25 | 23.67 | 232.81 | 1000 | PASS |
| DC_12A_n78A | 30 | 90  | 633666 | 1@243  | DFT_16QAM  | 25.21 | -2.25 | 22.96 | 197.7  | 1000 | PASS |
| DC_12A_n78A | 30 | 90  | 633666 | 243@0  | DFT_64QAM  | 24.99 | -2.25 | 22.74 | 187.93 | 1000 | PASS |
| DC_12A_n78A | 30 | 90  | 633666 | 120@60 | DFT_64QAM  | 25.16 | -2.25 | 22.91 | 195.43 | 1000 | PASS |
| DC_12A_n78A | 30 | 90  | 633666 | 1@1    | DFT_64QAM  | 24.42 | -2.25 | 22.17 | 164.82 | 1000 | PASS |
| DC_12A_n78A | 30 | 90  | 633666 | 1@243  | DFT_64QAM  | 23.73 | -2.25 | 21.48 | 140.6  | 1000 | PASS |
| DC_12A_n78A | 30 | 90  | 633666 | 243@0  | DFT_256QAM | 22.97 | -2.25 | 20.72 | 118.03 | 1000 | PASS |
| DC_12A_n78A | 30 | 90  | 633666 | 120@60 | DFT_256QAM | 23.18 | -2.25 | 20.93 | 123.88 | 1000 | PASS |
| DC_12A_n78A | 30 | 90  | 633666 | 1@1    | DFT_256QAM | 22.56 | -2.25 | 20.31 | 107.4  | 1000 | PASS |
| DC_12A_n78A | 30 | 90  | 633666 | 1@243  | DFT_256QAM | 21.88 | -2.25 | 19.63 | 91.83  | 1000 | PASS |
| DC_12A_n78A | 30 | 90  | 633666 | 245@0  | CP_QPSK    | 24.48 | -2.25 | 22.23 | 167.11 | 1000 | PASS |
| DC_12A_n78A | 30 | 90  | 633666 | 123@61 | CP_QPSK    | 26.13 | -2.25 | 23.88 | 244.34 | 1000 | PASS |
| DC_12A_n78A | 30 | 90  | 633666 | 1@1    | CP_QPSK    | 25.63 | -2.25 | 23.38 | 217.77 | 1000 | PASS |
| DC_12A_n78A | 30 | 90  | 633666 | 1@243  | CP_QPSK    | 24.98 | -2.25 | 22.73 | 187.5  | 1000 | PASS |
| DC_12A_n78A | 30 | 90  | 633666 | 245@0  | CP_16QAM   | 24.44 | -2.25 | 22.19 | 165.58 | 1000 | PASS |
| DC_12A_n78A | 30 | 90  | 633666 | 123@61 | CP_16QAM   | 25.61 | -2.25 | 23.36 | 216.77 | 1000 | PASS |
| DC_12A_n78A | 30 | 90  | 633666 | 1@1    | CP_16QAM   | 25.21 | -2.25 | 22.96 | 197.7  | 1000 | PASS |
| DC_12A_n78A | 30 | 90  | 633666 | 1@243  | CP_16QAM   | 24.58 | -2.25 | 22.33 | 171    | 1000 | PASS |
| DC_12A_n78A | 30 | 90  | 633666 | 245@0  | CP_64QAM   | 23.96 | -2.25 | 21.71 | 148.25 | 1000 | PASS |
| DC_12A_n78A | 30 | 90  | 633666 | 123@61 | CP_64QAM   | 24.1  | -2.25 | 21.85 | 153.11 | 1000 | PASS |
| DC_12A_n78A | 30 | 90  | 633666 | 1@1    | CP_64QAM   | 23.77 | -2.25 | 21.52 | 141.91 | 1000 | PASS |
| DC_12A_n78A | 30 | 90  | 633666 | 1@243  | CP_64QAM   | 23.09 | -2.25 | 20.84 | 121.34 | 1000 | PASS |
| DC_12A_n78A | 30 | 90  | 633666 | 245@0  | CP_256QAM  | 21.11 | -2.25 | 18.86 | 76.91  | 1000 | PASS |
| DC_12A_n78A | 30 | 90  | 633666 | 123@61 | CP_256QAM  | 21.23 | -2.25 | 18.98 | 79.07  | 1000 | PASS |
| DC_12A_n78A | 30 | 90  | 633666 | 1@1    | CP_256QAM  | 20.61 | -2.25 | 18.36 | 68.55  | 1000 | PASS |
| DC_12A_n78A | 30 | 90  | 633666 | 1@243  | CP_256QAM  | 20.35 | -2.25 | 18.1  | 64.57  | 1000 | PASS |
| DC_12A_n78A | 30 | 100 | 633334 | 270@0  | DFT_BPSK   | 26.92 | -2.25 | 24.67 | 293.09 | 1000 | PASS |
| DC_12A_n78A | 30 | 100 | 633334 | 135@67 | DFT_BPSK   | 27.65 | -2.25 | 25.4  | 346.74 | 1000 | PASS |

|             |    |     |        |        |            |       |       |       |        |      |      |
|-------------|----|-----|--------|--------|------------|-------|-------|-------|--------|------|------|
| DC_12A_n78A | 30 | 100 | 633334 | 1@1    | DFT_BPSK   | 26.85 | -2.25 | 24.6  | 288.4  | 1000 | PASS |
| DC_12A_n78A | 30 | 100 | 633334 | 1@271  | DFT_BPSK   | 26.16 | -2.25 | 23.91 | 246.04 | 1000 | PASS |
| DC_12A_n78A | 30 | 100 | 633334 | 270@0  | DFT_QPSK   | 26.41 | -2.25 | 24.16 | 260.62 | 1000 | PASS |
| DC_12A_n78A | 30 | 100 | 633334 | 135@67 | DFT_QPSK   | 27.69 | -2.25 | 25.44 | 349.95 | 1000 | PASS |
| DC_12A_n78A | 30 | 100 | 633334 | 1@1    | DFT_QPSK   | 26.94 | -2.25 | 24.69 | 294.44 | 1000 | PASS |
| DC_12A_n78A | 30 | 100 | 633334 | 1@271  | DFT_QPSK   | 26.21 | -2.25 | 23.96 | 248.89 | 1000 | PASS |
| DC_12A_n78A | 30 | 100 | 633334 | 270@0  | DFT_16QAM  | 25.44 | -2.25 | 23.19 | 208.45 | 1000 | PASS |
| DC_12A_n78A | 30 | 100 | 633334 | 135@67 | DFT_16QAM  | 26.67 | -2.25 | 24.42 | 276.69 | 1000 | PASS |
| DC_12A_n78A | 30 | 100 | 633334 | 1@1    | DFT_16QAM  | 25.77 | -2.25 | 23.52 | 224.91 | 1000 | PASS |
| DC_12A_n78A | 30 | 100 | 633334 | 1@271  | DFT_16QAM  | 25    | -2.25 | 22.75 | 188.36 | 1000 | PASS |
| DC_12A_n78A | 30 | 100 | 633334 | 270@0  | DFT_64QAM  | 24.86 | -2.25 | 22.61 | 182.39 | 1000 | PASS |
| DC_12A_n78A | 30 | 100 | 633334 | 135@67 | DFT_64QAM  | 25.15 | -2.25 | 22.9  | 194.98 | 1000 | PASS |
| DC_12A_n78A | 30 | 100 | 633334 | 1@1    | DFT_64QAM  | 24.24 | -2.25 | 21.99 | 158.12 | 1000 | PASS |
| DC_12A_n78A | 30 | 100 | 633334 | 1@271  | DFT_64QAM  | 23.47 | -2.25 | 21.22 | 132.43 | 1000 | PASS |
| DC_12A_n78A | 30 | 100 | 633334 | 270@0  | DFT_256QAM | 22.86 | -2.25 | 20.61 | 115.08 | 1000 | PASS |
| DC_12A_n78A | 30 | 100 | 633334 | 135@67 | DFT_256QAM | 23.14 | -2.25 | 20.89 | 122.74 | 1000 | PASS |
| DC_12A_n78A | 30 | 100 | 633334 | 1@1    | DFT_256QAM | 22.36 | -2.25 | 20.11 | 102.57 | 1000 | PASS |
| DC_12A_n78A | 30 | 100 | 633334 | 1@271  | DFT_256QAM | 21.66 | -2.25 | 19.41 | 87.3   | 1000 | PASS |
| DC_12A_n78A | 30 | 100 | 633334 | 273@0  | CP_QPSK    | 24.4  | -2.25 | 22.15 | 164.06 | 1000 | PASS |
| DC_12A_n78A | 30 | 100 | 633334 | 137@68 | CP_QPSK    | 26.17 | -2.25 | 23.92 | 246.6  | 1000 | PASS |
| DC_12A_n78A | 30 | 100 | 633334 | 1@1    | CP_QPSK    | 25.41 | -2.25 | 23.16 | 207.01 | 1000 | PASS |
| DC_12A_n78A | 30 | 100 | 633334 | 1@271  | CP_QPSK    | 24.74 | -2.25 | 22.49 | 177.42 | 1000 | PASS |
| DC_12A_n78A | 30 | 100 | 633334 | 273@0  | CP_16QAM   | 24.4  | -2.25 | 22.15 | 164.06 | 1000 | PASS |
| DC_12A_n78A | 30 | 100 | 633334 | 137@68 | CP_16QAM   | 25.66 | -2.25 | 23.41 | 219.28 | 1000 | PASS |
| DC_12A_n78A | 30 | 100 | 633334 | 1@1    | CP_16QAM   | 24.99 | -2.25 | 22.74 | 187.93 | 1000 | PASS |
| DC_12A_n78A | 30 | 100 | 633334 | 1@271  | CP_16QAM   | 24.3  | -2.25 | 22.05 | 160.32 | 1000 | PASS |
| DC_12A_n78A | 30 | 100 | 633334 | 273@0  | CP_64QAM   | 23.9  | -2.25 | 21.65 | 146.22 | 1000 | PASS |
| DC_12A_n78A | 30 | 100 | 633334 | 137@68 | CP_64QAM   | 24.13 | -2.25 | 21.88 | 154.17 | 1000 | PASS |
| DC_12A_n78A | 30 | 100 | 633334 | 1@1    | CP_64QAM   | 23.59 | -2.25 | 21.34 | 136.14 | 1000 | PASS |
| DC_12A_n78A | 30 | 100 | 633334 | 1@271  | CP_64QAM   | 22.89 | -2.25 | 20.64 | 115.88 | 1000 | PASS |
| DC_12A_n78A | 30 | 100 | 633334 | 273@0  | CP_256QAM  | 21.06 | -2.25 | 18.81 | 76.03  | 1000 | PASS |
| DC_12A_n78A | 30 | 100 | 633334 | 137@68 | CP_256QAM  | 21.25 | -2.25 | 19    | 79.43  | 1000 | PASS |
| DC_12A_n78A | 30 | 100 | 633334 | 1@1    | CP_256QAM  | 20.28 | -2.25 | 18.03 | 63.53  | 1000 | PASS |
| DC_12A_n78A | 30 | 100 | 633334 | 1@271  | CP_256QAM  | 20.04 | -2.25 | 17.79 | 60.12  | 1000 | PASS |



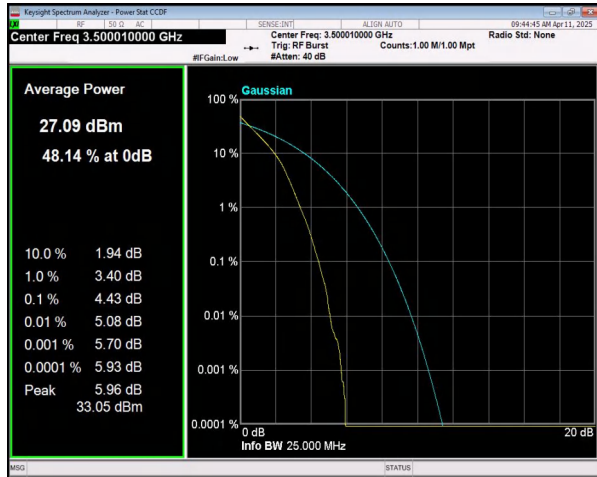
## 2. Frequency Stability

| Temperature (°C) | Voltage (V) | Band           | SCS (kHz) | Bandwidth (MHz) | UL Channel | RB Allocation | Modulation | Result(Hz) | Result (ppm) | Verdict |
|------------------|-------------|----------------|-----------|-----------------|------------|---------------|------------|------------|--------------|---------|
| 20(Ref.)         | 3.85        | n78(3450-3550) | 30        | 100             | 633334     | 270@0         | DFT_BPSK   | -10.6      | -0.00303     | PASS    |
| 20               | 3.27        | n78(3450-3550) | 30        | 100             | 633334     | 270@0         | DFT_BPSK   | -11.2      | -0.0032      | PASS    |
| 20               | 4.4         | n78(3450-3550) | 30        | 100             | 633334     | 270@0         | DFT_BPSK   | -6.1       | -0.00174     | PASS    |
| -30              | 3.85        | n78(3450-3550) | 30        | 100             | 633334     | 270@0         | DFT_BPSK   | -4.2       | -0.0012      | PASS    |
| -20              | 3.85        | n78(3450-3550) | 30        | 100             | 633334     | 270@0         | DFT_BPSK   | -3.8       | -0.00109     | PASS    |
| -10              | 3.85        | n78(3450-3550) | 30        | 100             | 633334     | 270@0         | DFT_BPSK   | -0.3       | -0.00009     | PASS    |
| 0                | 3.85        | n78(3450-3550) | 30        | 100             | 633334     | 270@0         | DFT_BPSK   | -9.6       | -0.00274     | PASS    |
| 10               | 3.85        | n78(3450-3550) | 30        | 100             | 633334     | 270@0         | DFT_BPSK   | -49.4      | -0.01411     | PASS    |
| 30               | 3.85        | n78(3450-3550) | 30        | 100             | 633334     | 270@0         | DFT_BPSK   | -0.6       | -0.00017     | PASS    |
| 40               | 3.85        | n78(3450-3550) | 30        | 100             | 633334     | 270@0         | DFT_BPSK   | -8.69      | -0.00248     | PASS    |
| 50               | 3.85        | n78(3450-3550) | 30        | 100             | 633334     | 270@0         | DFT_BPSK   | 18.8       | 0.00537      | PASS    |

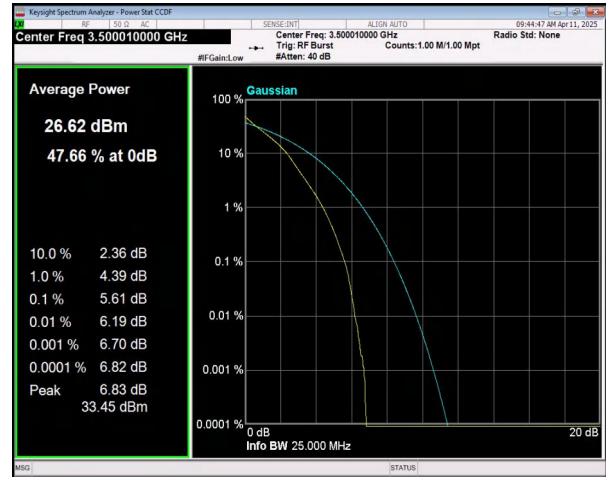
**Note:** The frequency fundamental emissions stay within the authorized frequency block.

### 3. Peak-to-average Ratio

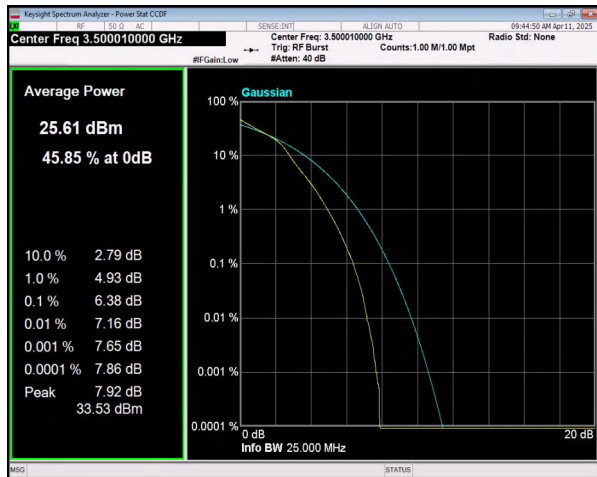
| Band           | SCS<br>(kHz) | Bandwidth<br>(MHz) | UL<br>Channel | RB<br>Allocation | Modulation | Result<br>(dB) | High Limit<br>(dB) | Verdict |
|----------------|--------------|--------------------|---------------|------------------|------------|----------------|--------------------|---------|
| n78(3450-3550) | 30           | 20                 | 633334        | 50@0             | DFT_BPSK   | 4.43           | 13                 | PASS    |
| n78(3450-3550) | 30           | 20                 | 633334        | 50@0             | DFT_QPSK   | 5.61           | 13                 | PASS    |
| n78(3450-3550) | 30           | 20                 | 633334        | 50@0             | DFT_16QAM  | 6.38           | 13                 | PASS    |
| n78(3450-3550) | 30           | 20                 | 633334        | 50@0             | DFT_64QAM  | 6.50           | 13                 | PASS    |
| n78(3450-3550) | 30           | 20                 | 633334        | 50@0             | DFT_256QAM | 6.57           | 13                 | PASS    |



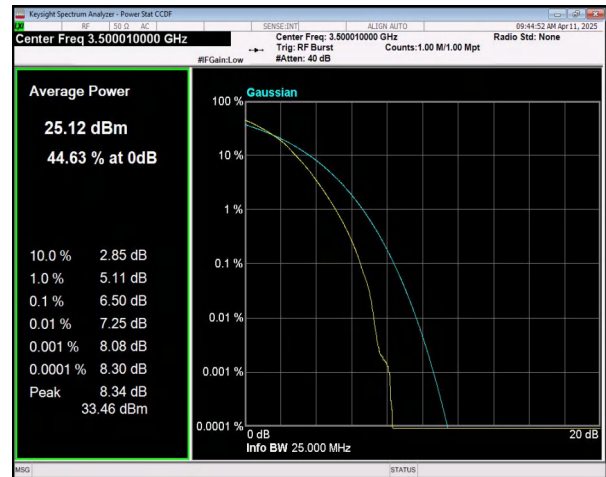
n78(3450-3550) SCS=30kHz DFT\_BPSK BW=20MHz  
Channel=633334 RB=50@0



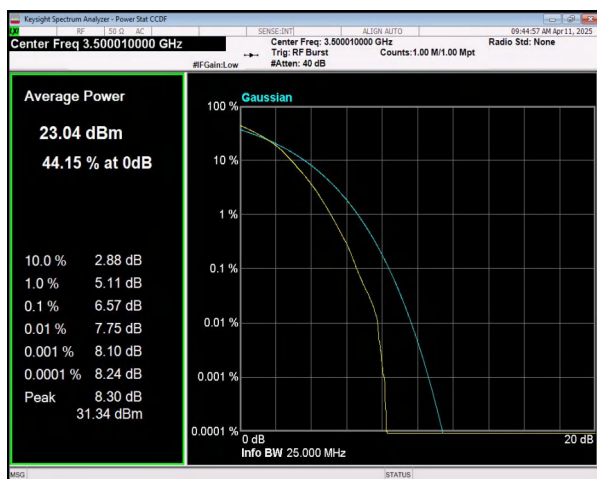
n78(3450-3550) SCS=30kHz DFT\_QPSK BW=20MHz  
Channel=633334 RB=50@0



n78(3450-3550) SCS=30kHz DFT\_16QAM BW=20MHz  
Channel=633334 RB=50@0



n78(3450-3550) SCS=30kHz DFT\_64QAM BW=20MHz  
Channel=633334 RB=50@0



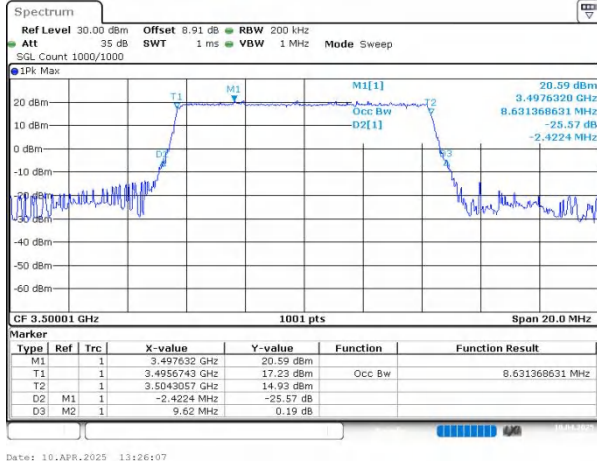
n78(3450-3550) SCS=30kHz DFT\_256QAM BW=20MHz  
Channel=633334 RB=50@0

## 4. Occupied Bandwidth

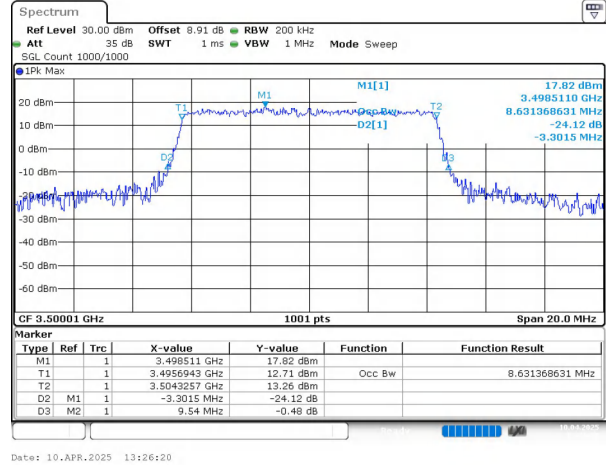
| Band           | SCS<br>(kHz) | Bandwidth<br>(MHz) | UL<br>Channel | UL<br>Frequency<br>(MHz) | RB<br>Allocation | Modulation | 99%<br>OBW<br>(MHz) | -26dB<br>EBW<br>(MHz) | Verdict |
|----------------|--------------|--------------------|---------------|--------------------------|------------------|------------|---------------------|-----------------------|---------|
| n78(3450-3550) | 30           | 10                 | 633334        | 3500.01                  | 24@0             | DFT_BPSK   | 8.631               | 9.620                 | PASS    |
| n78(3450-3550) | 30           | 10                 | 633334        | 3500.01                  | 24@0             | CP_QPSK    | 8.631               | 9.540                 | PASS    |
| n78(3450-3550) | 30           | 10                 | 633334        | 3500.01                  | 24@0             | CP_16QAM   | 8.631               | 9.480                 | PASS    |
| n78(3450-3550) | 30           | 10                 | 633334        | 3500.01                  | 24@0             | CP_64QAM   | 8.611               | 9.640                 | PASS    |
| n78(3450-3550) | 30           | 10                 | 633334        | 3500.01                  | 24@0             | CP_256QAM  | 8.651               | 9.660                 | PASS    |
| n78(3450-3550) | 30           | 15                 | 633334        | 3500.01                  | 36@0             | DFT_BPSK   | 13.007              | 14.220                | PASS    |
| n78(3450-3550) | 30           | 15                 | 633334        | 3500.01                  | 38@0             | CP_QPSK    | 13.606              | 14.760                | PASS    |
| n78(3450-3550) | 30           | 15                 | 633334        | 3500.01                  | 38@0             | CP_16QAM   | 13.636              | 14.790                | PASS    |
| n78(3450-3550) | 30           | 15                 | 633334        | 3500.01                  | 38@0             | CP_64QAM   | 13.606              | 14.820                | PASS    |
| n78(3450-3550) | 30           | 15                 | 633334        | 3500.01                  | 38@0             | CP_256QAM  | 13.636              | 14.880                | PASS    |
| n78(3450-3550) | 30           | 20                 | 633334        | 3500.01                  | 50@0             | DFT_BPSK   | 18.062              | 19.640                | PASS    |
| n78(3450-3550) | 30           | 20                 | 633334        | 3500.01                  | 51@0             | CP_QPSK    | 18.342              | 20.080                | PASS    |
| n78(3450-3550) | 30           | 20                 | 633334        | 3500.01                  | 51@0             | CP_16QAM   | 18.382              | 19.800                | PASS    |
| n78(3450-3550) | 30           | 20                 | 633334        | 3500.01                  | 51@0             | CP_64QAM   | 18.382              | 19.840                | PASS    |
| n78(3450-3550) | 30           | 20                 | 633334        | 3500.01                  | 51@0             | CP_256QAM  | 18.342              | 20.040                | PASS    |
| n78(3450-3550) | 30           | 40                 | 633334        | 3500.01                  | 100@0            | DFT_BPSK   | 35.964              | 38.560                | PASS    |
| n78(3450-3550) | 30           | 40                 | 633334        | 3500.01                  | 106@0            | CP_QPSK    | 38.122              | 40.400                | PASS    |
| n78(3450-3550) | 30           | 40                 | 633334        | 3500.01                  | 106@0            | CP_16QAM   | 38.042              | 40.560                | PASS    |
| n78(3450-3550) | 30           | 40                 | 633334        | 3500.01                  | 106@0            | CP_64QAM   | 38.042              | 41.040                | PASS    |
| n78(3450-3550) | 30           | 40                 | 633334        | 3500.01                  | 106@0            | CP_256QAM  | 38.042              | 40.720                | PASS    |
| n78(3450-3550) | 30           | 50                 | 633334        | 3500.01                  | 128@0            | DFT_BPSK   | 45.854              | 48.600                | PASS    |
| n78(3450-3550) | 30           | 50                 | 633334        | 3500.01                  | 133@0            | CP_QPSK    | 47.652              | 51.200                | PASS    |
| n78(3450-3550) | 30           | 50                 | 633334        | 3500.01                  | 133@0            | CP_16QAM   | 47.552              | 50.500                | PASS    |
| n78(3450-3550) | 30           | 50                 | 633334        | 3500.01                  | 133@0            | CP_64QAM   | 47.552              | 50.600                | PASS    |
| n78(3450-3550) | 30           | 50                 | 633334        | 3500.01                  | 133@0            | CP_256QAM  | 47.552              | 50.200                | PASS    |
| n78(3450-3550) | 30           | 60                 | 633334        | 3500.01                  | 162@0            | DFT_BPSK   | 58.501              | 62.520                | PASS    |
| n78(3450-3550) | 30           | 60                 | 633334        | 3500.01                  | 162@0            | CP_QPSK    | 58.501              | 63.000                | PASS    |
| n78(3450-3550) | 30           | 60                 | 633334        | 3500.01                  | 162@0            | CP_16QAM   | 58.501              | 62.640                | PASS    |
| n78(3450-3550) | 30           | 60                 | 633334        | 3500.01                  | 162@0            | CP_64QAM   | 58.382              | 62.880                | PASS    |
| n78(3450-3550) | 30           | 60                 | 633334        | 3500.01                  | 162@0            | CP_256QAM  | 58.382              | 62.640                | PASS    |
| n78(3450-3550) | 30           | 70                 | 633334        | 3500.01                  | 180@0            | DFT_BPSK   | 64.895              | 70.000                | PASS    |
| n78(3450-3550) | 30           | 70                 | 633334        | 3500.01                  | 189@0            | CP_QPSK    | 68.112              | 76.440                | PASS    |
| n78(3450-3550) | 30           | 70                 | 633334        | 3500.01                  | 189@0            | CP_16QAM   | 67.972              | 72.520                | PASS    |
| n78(3450-3550) | 30           | 70                 | 633334        | 3500.01                  | 189@0            | CP_64QAM   | 67.972              | 72.800                | PASS    |
| n78(3450-3550) | 30           | 70                 | 633334        | 3500.01                  | 189@0            | CP_256QAM  | 68.112              | 72.940                | PASS    |
| n78(3450-3550) | 30           | 80                 | 633334        | 3500.01                  | 216@0            | DFT_BPSK   | 77.522              | 82.400                | PASS    |
| n78(3450-3550) | 30           | 80                 | 633334        | 3500.01                  | 217@0            | CP_QPSK    | 77.842              | 82.560                | PASS    |
| n78(3450-3550) | 30           | 80                 | 633334        | 3500.01                  | 217@0            | CP_16QAM   | 77.842              | 83.040                | PASS    |

|                |    |     |        |         |       |           |        |         |      |
|----------------|----|-----|--------|---------|-------|-----------|--------|---------|------|
| n78(3450-3550) | 30 | 80  | 633334 | 3500.01 | 217@0 | CP_64QAM  | 77.842 | 84.800  | PASS |
| n78(3450-3550) | 30 | 80  | 633334 | 3500.01 | 217@0 | CP_256QAM | 78.002 | 85.120  | PASS |
| n78(3450-3550) | 30 | 90  | 633334 | 3500.01 | 243@0 | DFT_BPSK  | 87.033 | 91.800  | PASS |
| n78(3450-3550) | 30 | 90  | 633334 | 3500.01 | 245@0 | CP_QPSK   | 87.752 | 92.880  | PASS |
| n78(3450-3550) | 30 | 90  | 633334 | 3500.01 | 245@0 | CP_16QAM  | 87.752 | 92.520  | PASS |
| n78(3450-3550) | 30 | 90  | 633334 | 3500.01 | 245@0 | CP_64QAM  | 87.752 | 92.520  | PASS |
| n78(3450-3550) | 30 | 90  | 633334 | 3500.01 | 245@0 | CP_256QAM | 87.572 | 92.700  | PASS |
| n78(3450-3550) | 30 | 100 | 633334 | 3500.01 | 270@0 | DFT_BPSK  | 96.104 | 101.400 | PASS |
| n78(3450-3550) | 30 | 100 | 633334 | 3500.01 | 273@0 | CP_QPSK   | 97.502 | 103.400 | PASS |
| n78(3450-3550) | 30 | 100 | 633334 | 3500.01 | 273@0 | CP_16QAM  | 97.502 | 102.600 | PASS |
| n78(3450-3550) | 30 | 100 | 633334 | 3500.01 | 273@0 | CP_64QAM  | 97.502 | 102.600 | PASS |
| n78(3450-3550) | 30 | 100 | 633334 | 3500.01 | 273@0 | CP_256QAM | 97.303 | 102.600 | PASS |

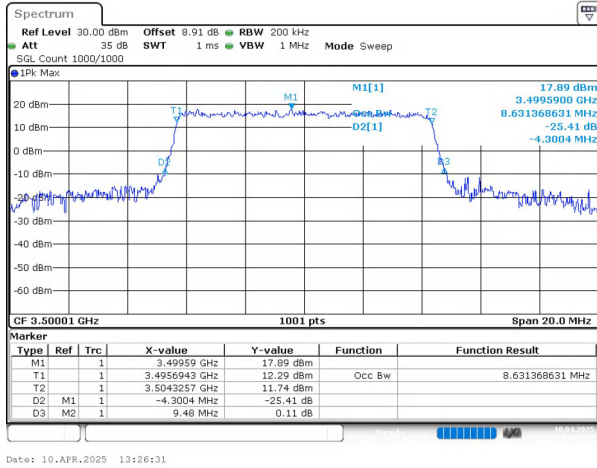




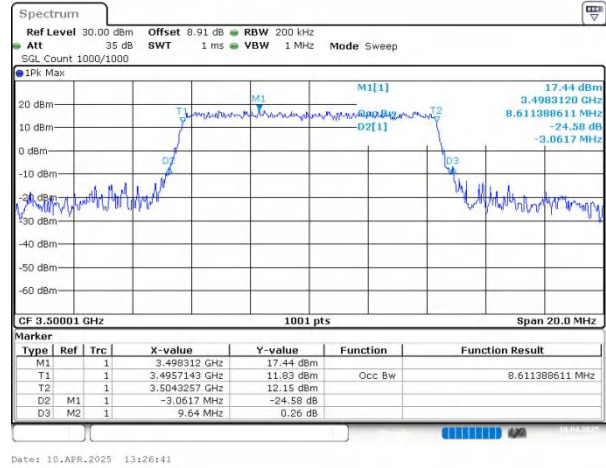
n78(3450-3550) SCS=30kHz DFT\_BPSK BW=10MHz  
Channel=633334 RB=24@0



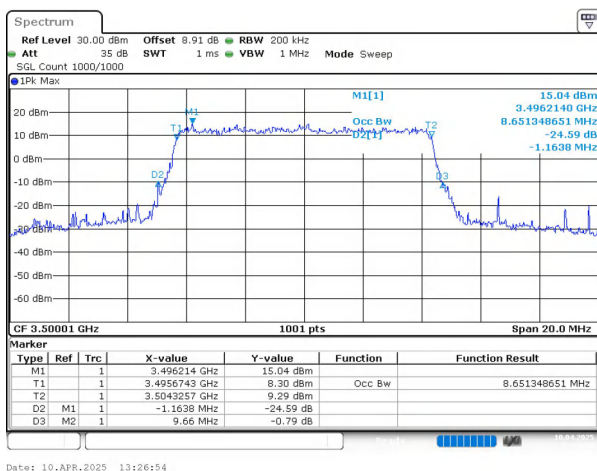
n78(3450-3550) SCS=30kHz CP\_QPSK BW=10MHz  
Channel=633334 RB=24@0



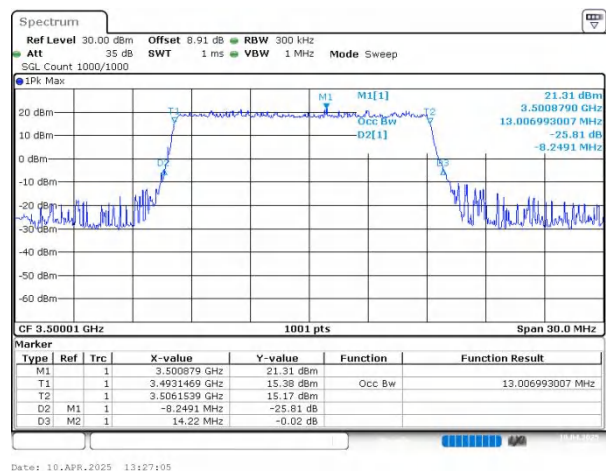
n78(3450-3550) SCS=30kHz CP\_16QAM BW=10MHz  
Channel=633334 RB=24@0



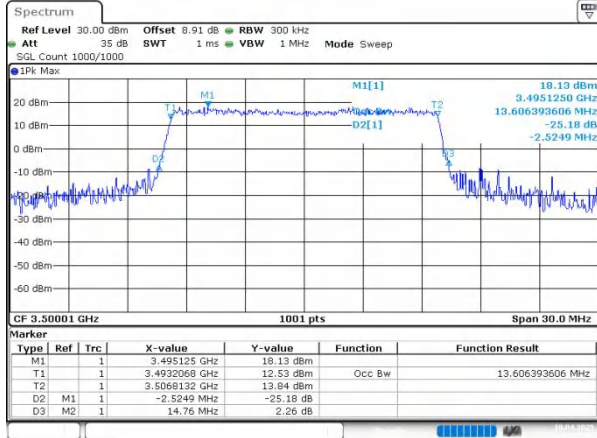
n78(3450-3550) SCS=30kHz CP\_64QAM BW=10MHz  
Channel=633334 RB=24@0



n78(3450-3550) SCS=30kHz CP\_256QAM BW=10MHz  
Channel=633334 RB=24@0



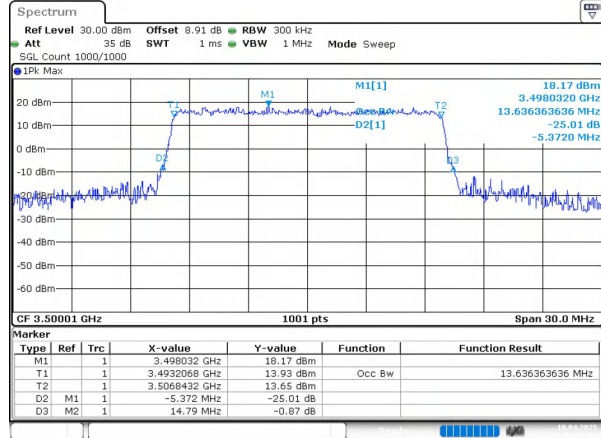
n78(3450-3550) SCS=30kHz DFT\_BPSK BW=15MHz  
Channel=633334 RB=36@0



Date: 10.APR.2025 13:27:12

n78(3450-3550) SCS=30kHz CP\_QPSK BW=15MHz

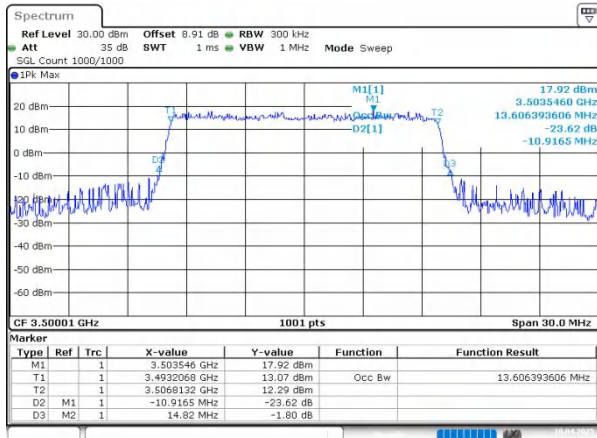
Channel=633334 RB=38@0



Date: 10.APR.2025 13:27:16

n78(3450-3550) SCS=30kHz CP\_16QAM BW=15MHz

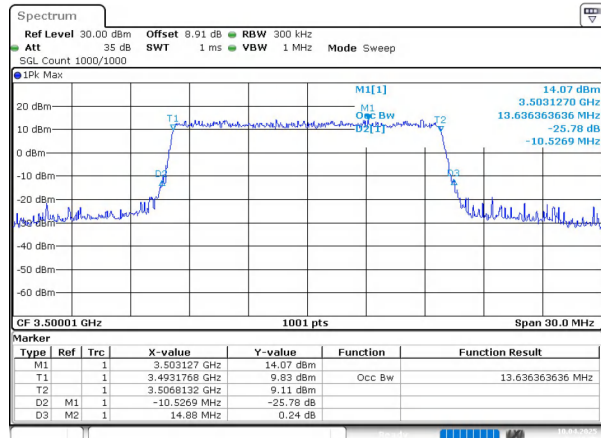
Channel=633334 RB=38@0



Date: 10.APR.2025 13:27:23

n78(3450-3550) SCS=30kHz CP\_64QAM BW=15MHz

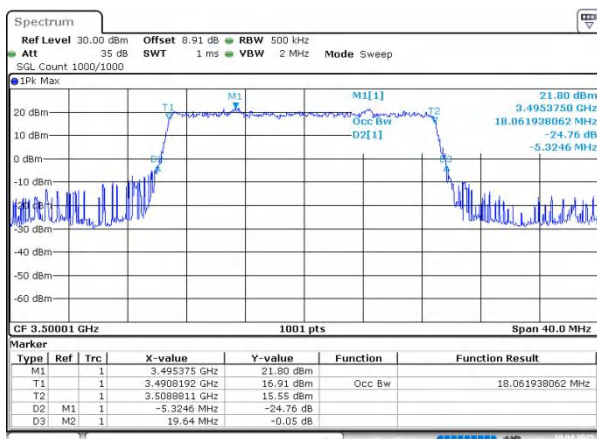
Channel=633334 RB=38@0



Date: 10.APR.2025 13:27:27

n78(3450-3550) SCS=30kHz CP\_256QAM BW=15MHz

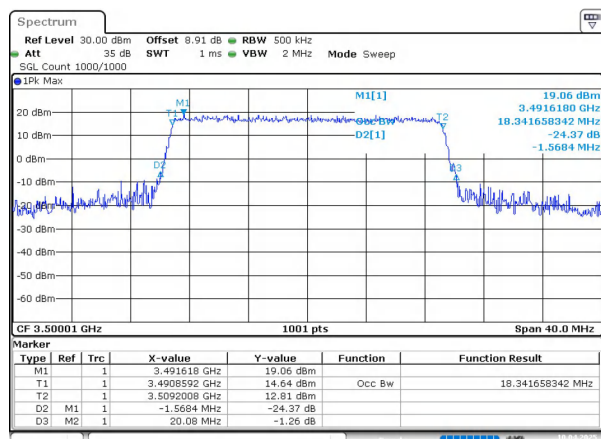
Channel=633334 RB=38@0



Date: 10.APR.2025 13:27:39

n78(3450-3550) SCS=30kHz DFT\_BPSK BW=20MHz

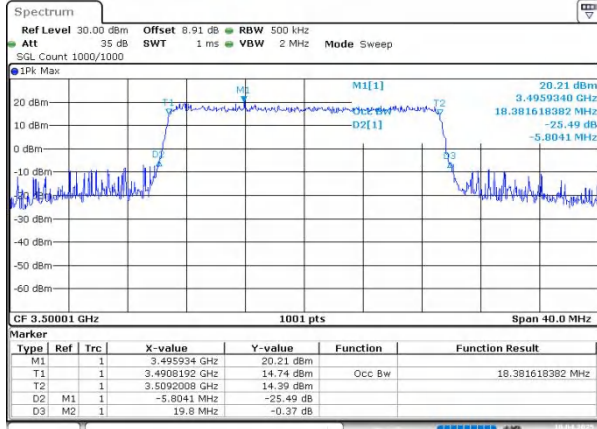
Channel=633334 RB=50@0



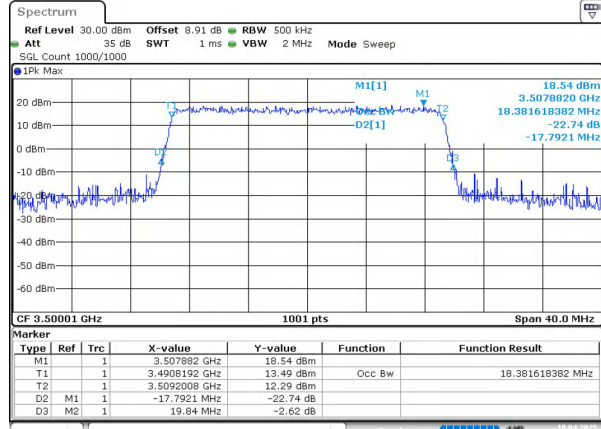
Date: 10.APR.2025 13:27:46

n78(3450-3550) SCS=30kHz CP\_QPSK BW=20MHz

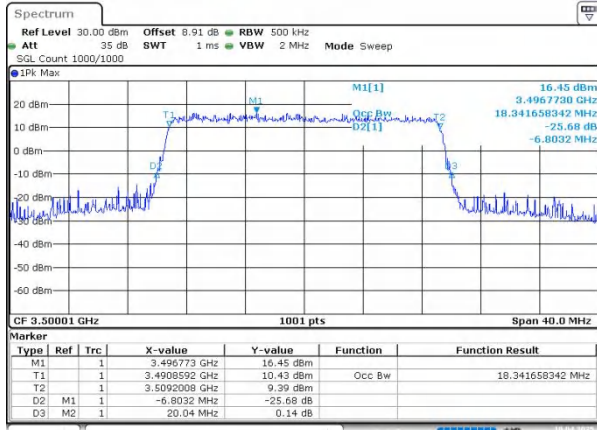
Channel=633334 RB=51@0



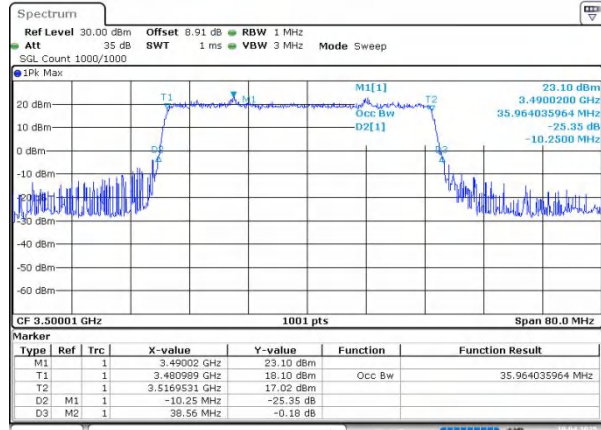
n78(3450-3550) SCS=30kHz CP\_16QAM BW=20MHz  
Channel=633334 RB=51@0



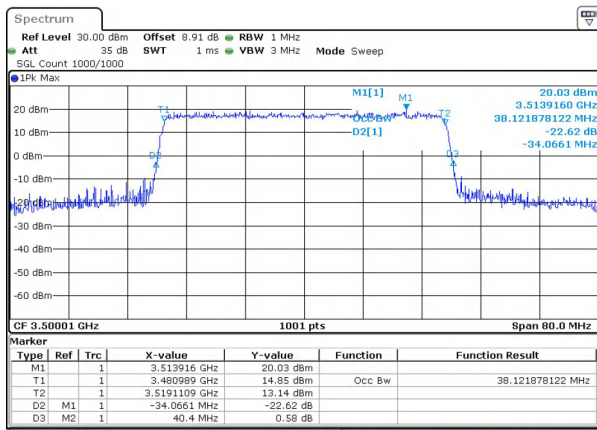
n78(3450-3550) SCS=30kHz CP\_64QAM BW=20MHz  
Channel=633334 RB=51@0



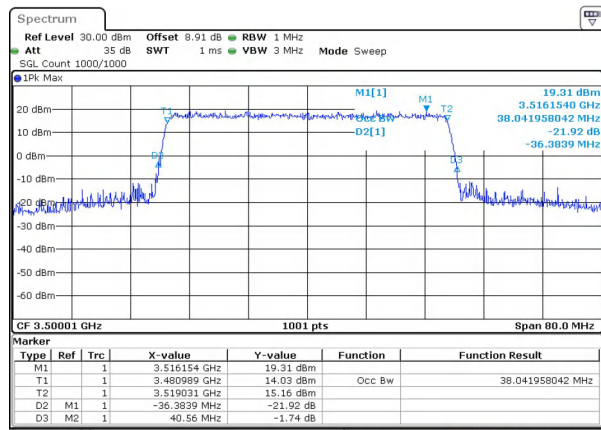
n78(3450-3550) SCS=30kHz CP\_256QAM BW=20MHz  
Channel=633334 RB=51@0



n78(3450-3550) SCS=30kHz DFT\_BPSK BW=40MHz  
Channel=633334 RB=100@0

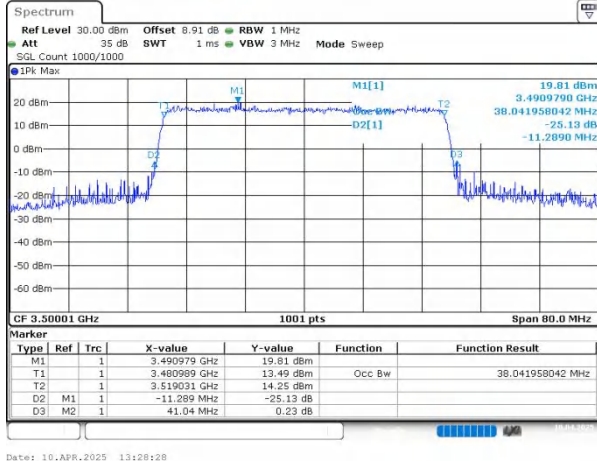


n78(3450-3550) SCS=30kHz CP\_QPSK BW=40MHz  
Channel=633334 RB=106@0



n78(3450-3550) SCS=30kHz CP\_16QAM BW=40MHz  
Channel=633334 RB=106@0

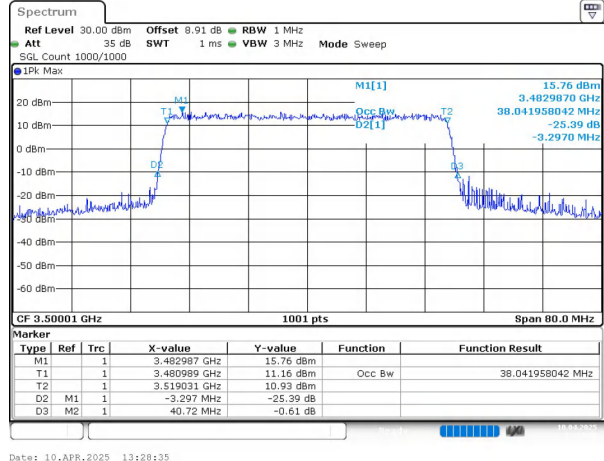




Date: 10.APR.2025 13:28:28

n78(3450-3550) SCS=30kHz CP\_64QAM BW=40MHz

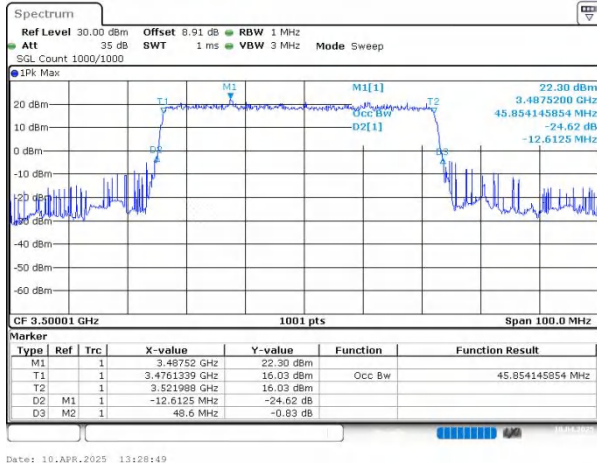
Channel=633334 RB=106@0



Date: 10.APR.2025 13:28:35

n78(3450-3550) SCS=30kHz CP\_256QAM BW=40MHz

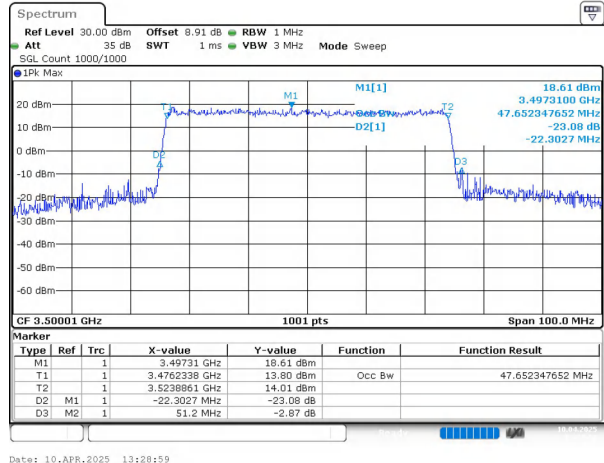
Channel=633334 RB=106@0



Date: 10.APR.2025 13:28:49

n78(3450-3550) SCS=30kHz DFT\_BPSK BW=50MHz

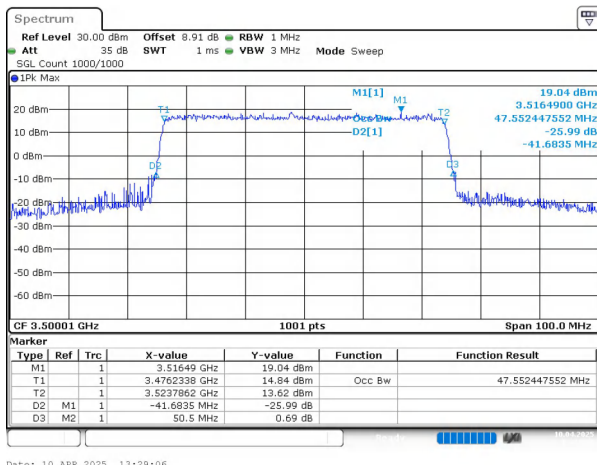
Channel=633334 RB=128@0



Date: 10.APR.2025 13:28:59

n78(3450-3550) SCS=30kHz CP\_QPSK BW=50MHz

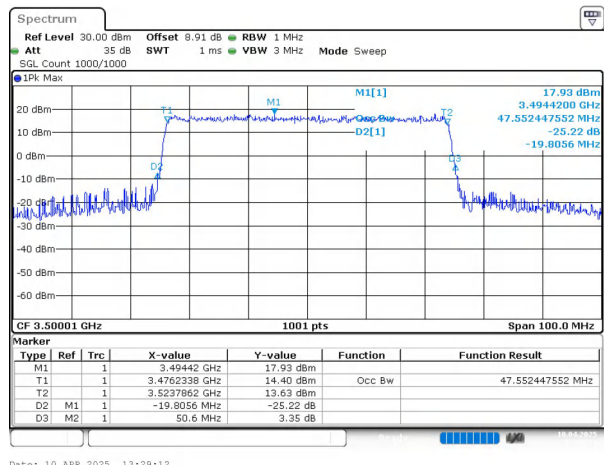
Channel=633334 RB=133@0



Date: 10.APR.2025 13:29:06

n78(3450-3550) SCS=30kHz CP\_16QAM BW=50MHz

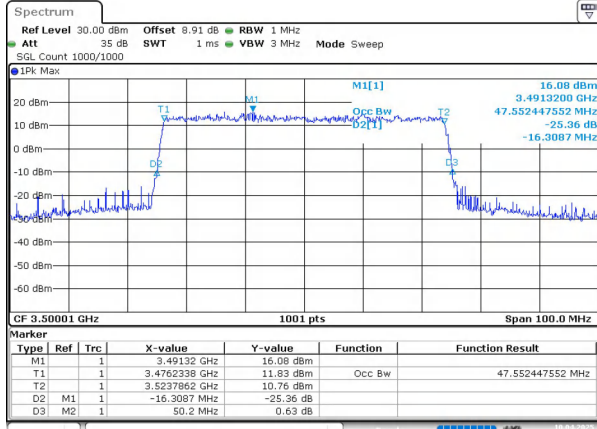
Channel=633334 RB=133@0



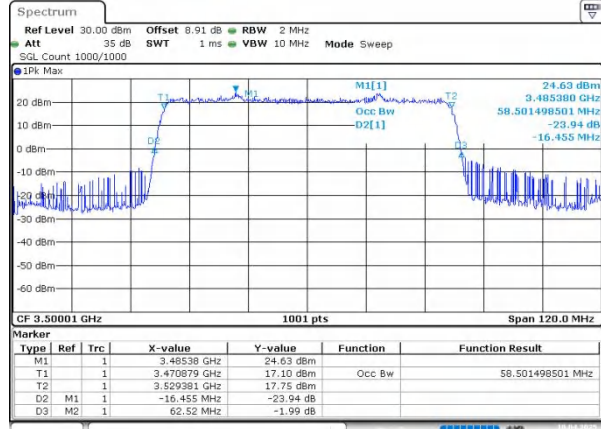
Date: 10.APR.2025 13:29:12

n78(3450-3550) SCS=30kHz CP\_64QAM BW=50MHz

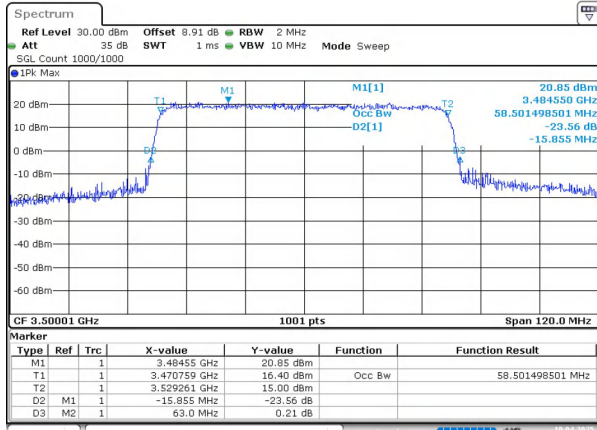
Channel=633334 RB=133@0



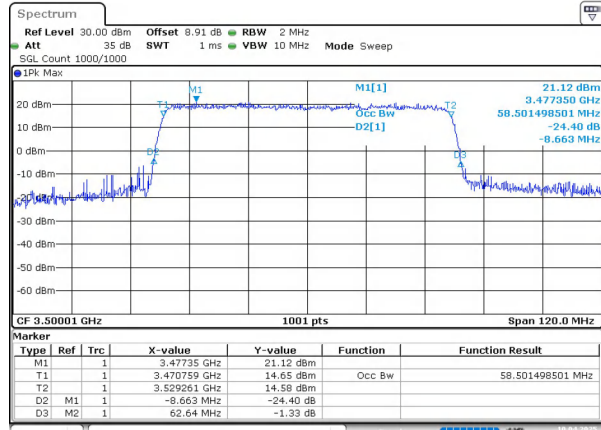
n78(3450-3550) SCS=30kHz CP\_256QAM BW=50MHz  
Channel=633334 RB=133@0



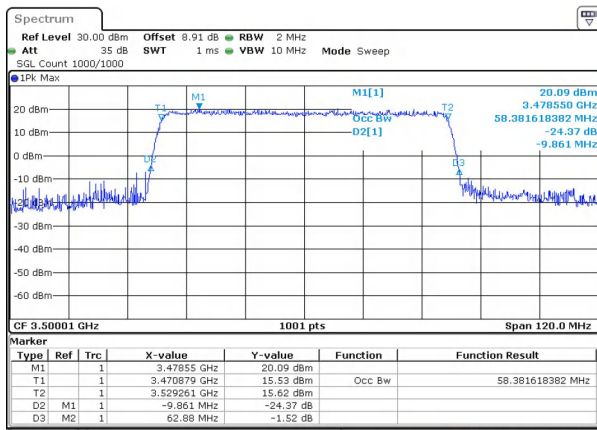
n78(3450-3550) SCS=30kHz DFT\_BPSK BW=60MHz  
Channel=633334 RB=162@0



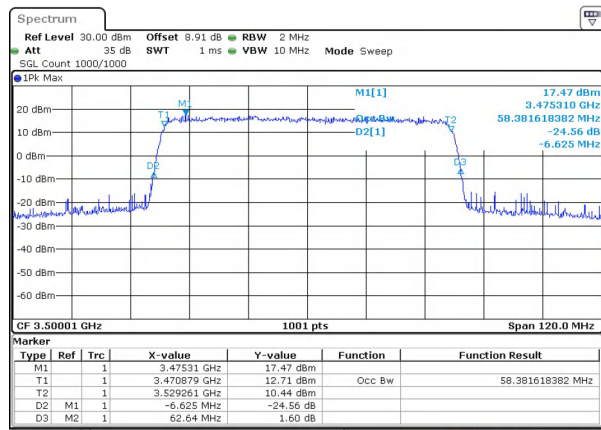
n78(3450-3550) SCS=30kHz CP\_QPSK BW=60MHz  
Channel=633334 RB=162@0



n78(3450-3550) SCS=30kHz CP\_16QAM BW=60MHz  
Channel=633334 RB=162@0

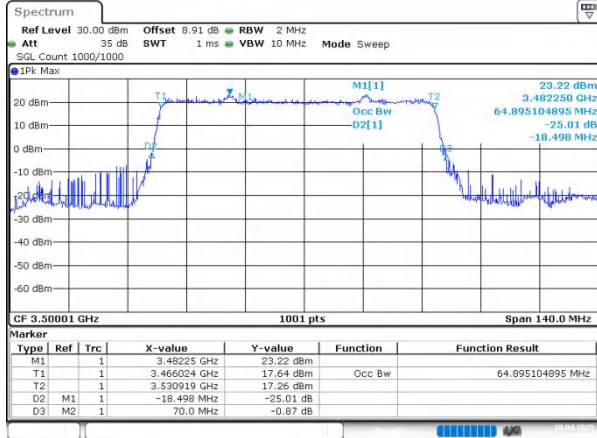


n78(3450-3550) SCS=30kHz CP\_64QAM BW=60MHz  
Channel=633334 RB=162@0



n78(3450-3550) SCS=30kHz CP\_256QAM BW=60MHz  
Channel=633334 RB=162@0

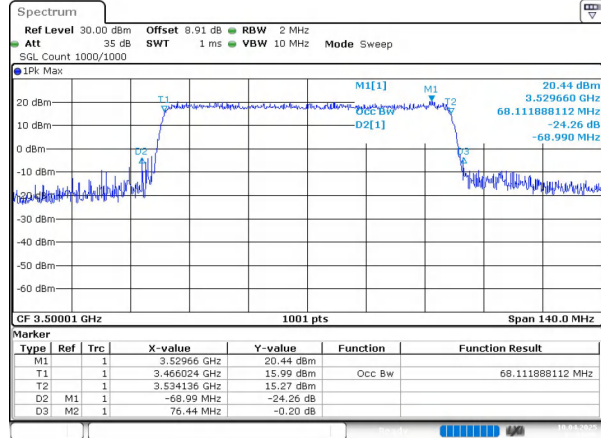




Date: 10.APR.2025 13:30:23

n78(3450-3550) SCS=30kHz DFT\_BPSK BW=70MHz

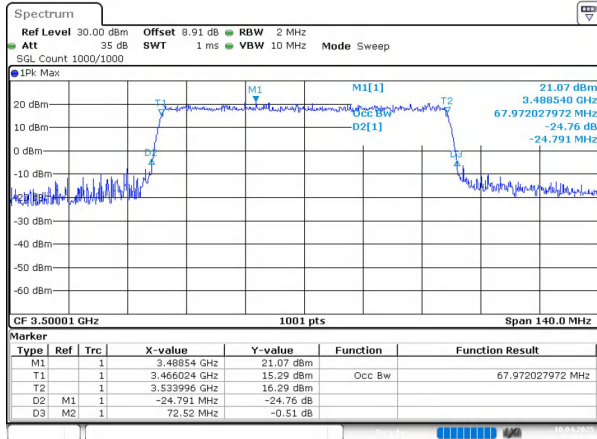
Channel=633334 RB=180@0



Date: 10.APR.2025 13:30:33

n78(3450-3550) SCS=30kHz CP\_QPSK BW=70MHz

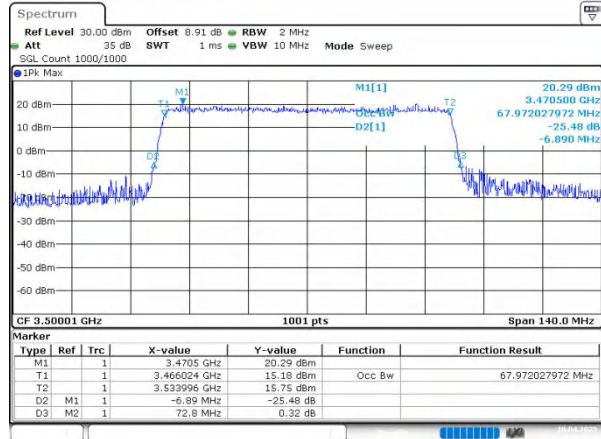
Channel=633334 RB=189@0



Date: 10.APR.2025 13:30:40

n78(3450-3550) SCS=30kHz CP\_16QAM BW=70MHz

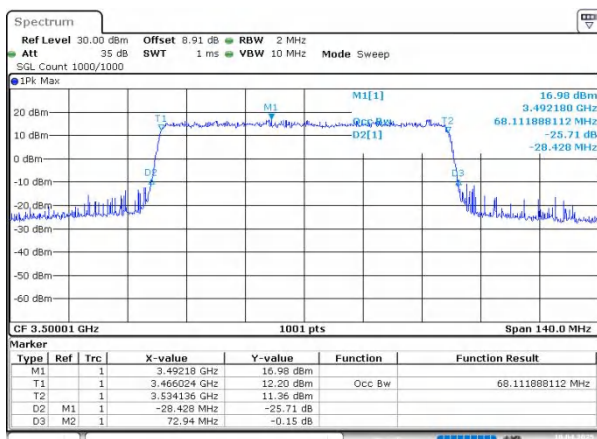
Channel=633334 RB=189@0



Date: 10.APR.2025 13:30:46

n78(3450-3550) SCS=30kHz CP\_64QAM BW=70MHz

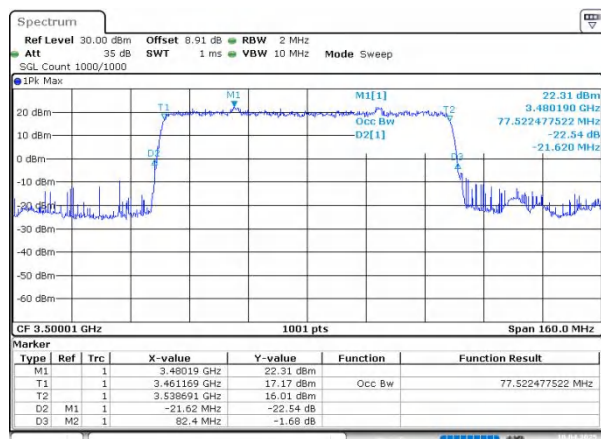
Channel=633334 RB=189@0



Date: 10.APR.2025 13:30:56

n78(3450-3550) SCS=30kHz CP\_256QAM BW=70MHz

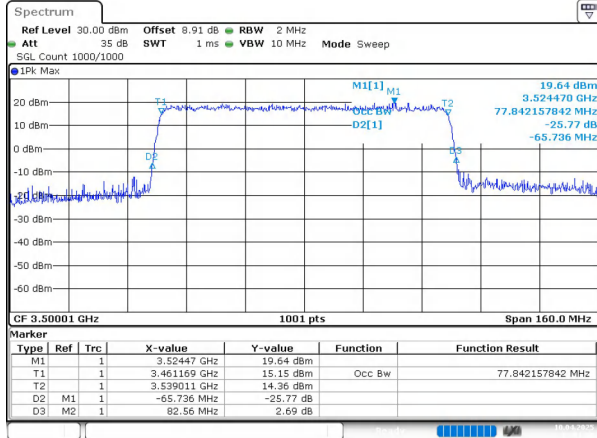
Channel=633334 RB=189@0



Date: 10.APR.2025 13:31:10

n78(3450-3550) SCS=30kHz DFT\_BPSK BW=80MHz

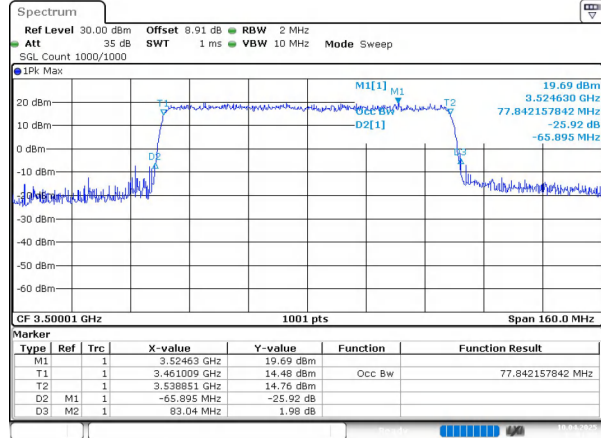
Channel=633334 RB=216@0



Date: 10.APR.2025 13:31:20

n78(3450-3550) SCS=30kHz CP\_QPSK BW=80MHz

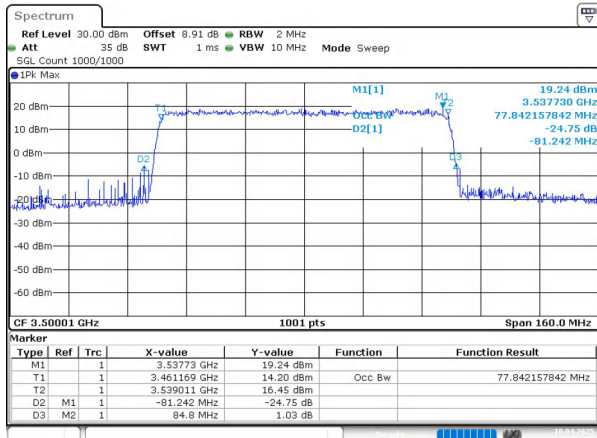
Channel=633334 RB=217@0



Date: 10.APR.2025 13:31:27

n78(3450-3550) SCS=30kHz CP\_16QAM BW=80MHz

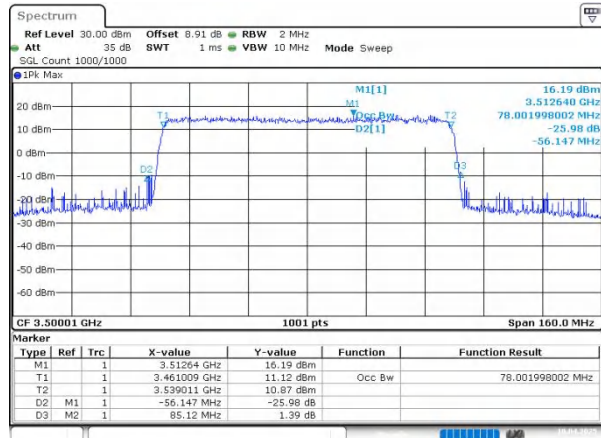
Channel=633334 RB=217@0



Date: 10.APR.2025 13:31:34

n78(3450-3550) SCS=30kHz CP\_64QAM BW=80MHz

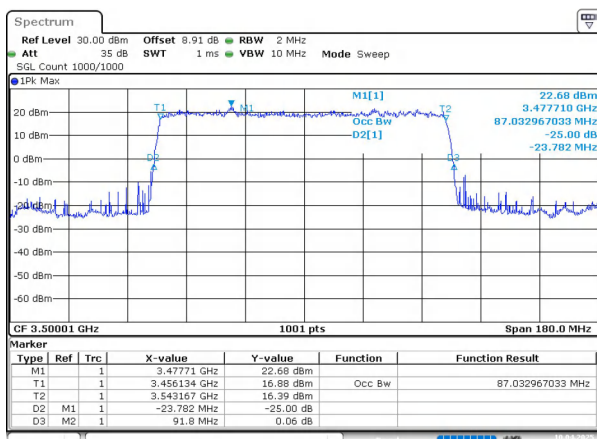
Channel=633334 RB=217@0



Date: 10.APR.2025 13:31:43

n78(3450-3550) SCS=30kHz CP\_256QAM BW=80MHz

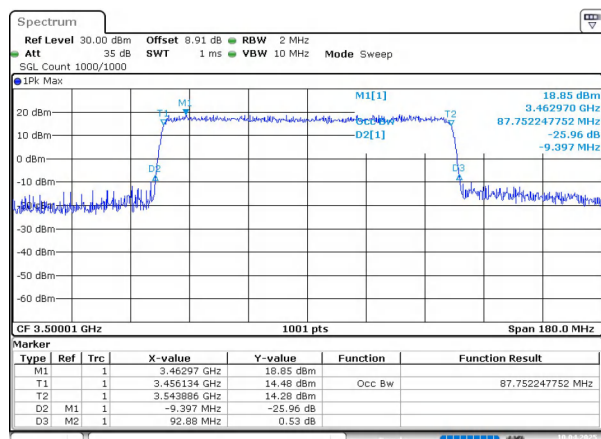
Channel=633334 RB=217@0



Date: 10.APR.2025 13:31:57

n78(3450-3550) SCS=30kHz DFT\_BPSK BW=90MHz

Channel=633334 RB=243@0



Date: 10.APR.2025 13:32:07

n78(3450-3550) SCS=30kHz CP\_QPSK BW=90MHz

Channel=633334 RB=245@0