# 1. Conducted output power for NR FR1

| Band | SCS (kHz) | Bandwidth (MHz) | UL Channel | RB Allocation | Modulation | Power (dBm) | ERP (dBm) | high Limit (dBm) | Verdict |
|---|---|---|---|---|---|---|---|---|---|
| n71 | 30 | 10 | 133600 | 12@6 | DFT_BPSK | 23.81 | 17.06 | 34.77 | PASS |
| n71 | 30 | 10 | 133600 | 1@1 | DFT_BPSK | 23.69 | 16.94 | 34.77 | PASS |
| n71 | 30 | 10 | 133600 | 1@22 | DFT_BPSK | 23.74 | 16.99 | 34.77 | PASS |
| n71 | 30 | 10 | 133600 | 12@6 | DFT_QPSK | 23.79 | 17.04 | 34.77 | PASS |
| n71 | 30 | 10 | 133600 | 1@1 | DFT_QPSK | 23.60 | 16.85 | 34.77 | PASS |
| n71 | 30 | 10 | 133600 | 1@22 | DFT_QPSK | 23.53 | 16.78 | 34.77 | PASS |
| n71 | 30 | 10 | 133600 | 12@6 | DFT_QAM16 | 22.76 | 16.01 | 34.77 | PASS |
| n71 | 30 | 10 | 133600 | 1@1 | DFT_QAM16 | 22.88 | 16.13 | 34.77 | PASS |
| n71 | 30 | 10 | 133600 | 1@22 | DFT_QAM16 | 22.93 | 16.18 | 34.77 | PASS |
| n71 | 30 | 10 | 133600 | 12@6 | DFT_QAM64 | 21.40 | 14.65 | 34.77 | PASS |
| n71 | 30 | 10 | 133600 | 1@1 | DFT_QAM64 | 21.47 | 14.72 | 34.77 | PASS |
| n71 | 30 | 10 | 133600 | 1@22 | DFT_QAM64 | 21.18 | 14.43 | 34.77 | PASS |
| n71 | 30 | 10 | 133600 | 12@6 | DFT_QAM256 | 19.43 | 12.68 | 34.77 | PASS |
| n71 | 30 | 10 | 133600 | 1@1 | DFT_QAM256 | 19.72 | 12.97 | 34.77 | PASS |
| n71 | 30 | 10 | 133600 | 1@22 | DFT_QAM256 | 19.62 | 12.87 | 34.77 | PASS |
| n71 | 30 | 10 | 133600 | 12@6 | CP_QPSK | 22.42 | 15.67 | 34.77 | PASS |
| n71 | 30 | 10 | 133600 | 1@1 | CP_QPSK | 22.21 | 15.46 | 34.77 | PASS |
| n71 | 30 | 10 | 133600 | 1@22 | CP_QPSK | 22.27 | 15.52 | 34.77 | PASS |
| n71 | 30 | 10 | 133600 | 12@6 | CP_QAM16 | 21.75 | 15 | 34.77 | PASS |
| n71 | 30 | 10 | 133600 | 1@1 | CP_QAM16 | 21.96 | 15.21 | 34.77 | PASS |
| n71 | 30 | 10 | 133600 | 1@22 | CP_QAM16 | 21.74 | 14.99 | 34.77 | PASS |
| n71 | 30 | 10 | 133600 | 12@6 | CP_QAM64 | 20.46 | 13.71 | 34.77 | PASS |
| n71 | 30 | 10 | 133600 | 1@1 | CP_QAM64 | 20.75 | 14 | 34.77 | PASS |
| n71 | 30 | 10 | 133600 | 1@22 | CP_QAM64 | 20.54 | 13.79 | 34.77 | PASS |
| n71 | 30 | 10 | 133600 | 12@6 | CP_QAM256 | 17.52 | 10.77 | 34.77 | PASS |
| n71 | 30 | 10 | 133600 | 1@1 | CP_QAM256 | 17.51 | 10.76 | 34.77 | PASS |
| n71 | 30 | 10 | 133600 | 1@22 | CP_QAM256 | 17.12 | 10.37 | 34.77 | PASS |
| n71 | 30 | 10 | 136100 | 12@6 | DFT_BPSK | 23.61 | 16.86 | 34.77 | PASS |
| n71 | 30 | 10 | 136100 | 1@1 | DFT_BPSK | 23.62 | 16.87 | 34.77 | PASS |
| n71 | 30 | 10 | 136100 | 1@22 | DFT_BPSK | 23.47 | 16.72 | 34.77 | PASS |
| n71 | 30 | 10 | 136100 | 12@6 | DFT_QPSK | 23.53 | 16.78 | 34.77 | PASS |
| n71 | 30 | 10 | 136100 | 1@1 | DFT_QPSK | 23.47 | 16.72 | 34.77 | PASS |
| n71 | 30 | 10 | 136100 | 1@22 | DFT_QPSK | 23.34 | 16.59 | 34.77 | PASS |
| n71 | 30 | 10 | 136100 | 12@6 | DFT_QAM16 | 22.64 | 15.89 | 34.77 | PASS |
| n71 | 30 | 10 | 136100 | 1@1 | DFT_QAM16 | 22.72 | 15.97 | 34.77 | PASS |
| n71 | 30 | 10 | 136100 | 1@22 | DFT_QAM16 | 22.56 | 15.81 | 34.77 | PASS |
| n71 | 30 | 10 | 136100 | 12@6 | DFT_QAM64 | 21.16 | 14.41 | 34.77 | PASS |
| n71 | 30 | 10 | 136100 | 1@1 | DFT_QAM64 | 21.23 | 14.48 | 34.77 | PASS |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| n71 | 30 | 10 | 136100 | 1@22 | DFT_QAM64 | 21.05 | 14.3 | 34.77 | PASS |
| n71 | 30 | 10 | 136100 | 12@6 | DFT_QAM256 | 19.06 | 12.31 | 34.77 | PASS |
| n71 | 30 | 10 | 136100 | 1@1 | DFT_QAM256 | 19.54 | 12.79 | 34.77 | PASS |
| n71 | 30 | 10 | 136100 | 1@22 | DFT_QAM256 | 19.48 | 12.73 | 34.77 | PASS |
| n71 | 30 | 10 | 136100 | 12@6 | CP_QPSK | 22.11 | 15.36 | 34.77 | PASS |
| n71 | 30 | 10 | 136100 | 1@1 | CP_QPSK | 22.02 | 15.27 | 34.77 | PASS |
| n71 | 30 | 10 | 136100 | 1@22 | CP_QPSK | 21.94 | 15.19 | 34.77 | PASS |
| n71 | 30 | 10 | 136100 | 12@6 | CP_QAM16 | 21.53 | 14.78 | 34.77 | PASS |
| n71 | 30 | 10 | 136100 | 1@1 | CP_QAM16 | 21.70 | 14.95 | 34.77 | PASS |
| n71 | 30 | 10 | 136100 | 1@22 | CP_QAM16 | 21.68 | 14.93 | 34.77 | PASS |
| n71 | 30 | 10 | 136100 | 12@6 | CP_QAM64 | 20.25 | 13.5 | 34.77 | PASS |
| n71 | 30 | 10 | 136100 | 1@1 | CP_QAM64 | 19.98 | 13.23 | 34.77 | PASS |
| n71 | 30 | 10 | 136100 | 1@22 | CP_QAM64 | 20.12 | 13.37 | 34.77 | PASS |
| n71 | 30 | 10 | 136100 | 12@6 | CP_QAM256 | 17.02 | 10.27 | 34.77 | PASS |
| n71 | 30 | 10 | 136100 | 1@1 | CP_QAM256 | 17.17 | 10.42 | 34.77 | PASS |
| n71 | 30 | 10 | 136100 | 1@22 | CP_QAM256 | 16.97 | 10.22 | 34.77 | PASS |
| n71 | 30 | 10 | 138600 | 12@6 | DFT_BPSK | 23.57 | 16.82 | 34.77 | PASS |
| n71 | 30 | 10 | 138600 | 1@1 | DFT_BPSK | 23.48 | 16.73 | 34.77 | PASS |
| n71 | 30 | 10 | 138600 | 1@22 | DFT_BPSK | 23.44 | 16.69 | 34.77 | PASS |
| n71 | 30 | 10 | 138600 | 12@6 | DFT_QPSK | 23.50 | 16.75 | 34.77 | PASS |
| n71 | 30 | 10 | 138600 | 1@1 | DFT_QPSK | 23.36 | 16.61 | 34.77 | PASS |
| n71 | 30 | 10 | 138600 | 1@22 | DFT_QPSK | 23.45 | 16.7 | 34.77 | PASS |
| n71 | 30 | 10 | 138600 | 12@6 | DFT_QAM16 | 22.58 | 15.83 | 34.77 | PASS |
| n71 | 30 | 10 | 138600 | 1@1 | DFT_QAM16 | 22.65 | 15.9 | 34.77 | PASS |
| n71 | 30 | 10 | 138600 | 1@22 | DFT_QAM16 | 22.86 | 16.11 | 34.77 | PASS |
| n71 | 30 | 10 | 138600 | 12@6 | DFT_QAM64 | 21.17 | 14.42 | 34.77 | PASS |
| n71 | 30 | 10 | 138600 | 1@1 | DFT_QAM64 | 20.96 | 14.21 | 34.77 | PASS |
| n71 | 30 | 10 | 138600 | 1@22 | DFT_QAM64 | 20.98 | 14.23 | 34.77 | PASS |
| n71 | 30 | 10 | 138600 | 12@6 | DFT_QAM256 | 19.10 | 12.35 | 34.77 | PASS |
| n71 | 30 | 10 | 138600 | 1@1 | DFT_QAM256 | 19.40 | 12.65 | 34.77 | PASS |
| n71 | 30 | 10 | 138600 | 1@22 | DFT_QAM256 | 19.43 | 12.68 | 34.77 | PASS |
| n71 | 30 | 10 | 138600 | 12@6 | CP_QPSK | 22.07 | 15.32 | 34.77 | PASS |
| n71 | 30 | 10 | 138600 | 1@1 | CP_QPSK | 22.27 | 15.52 | 34.77 | PASS |
| n71 | 30 | 10 | 138600 | 1@22 | CP_QPSK | 22.19 | 15.44 | 34.77 | PASS |
| n71 | 30 | 10 | 138600 | 12@6 | CP_QAM16 | 21.48 | 14.73 | 34.77 | PASS |
| n71 | 30 | 10 | 138600 | 1@1 | CP_QAM16 | 21.62 | 14.87 | 34.77 | PASS |
| n71 | 30 | 10 | 138600 | 1@22 | CP_QAM16 | 21.84 | 15.09 | 34.77 | PASS |
| n71 | 30 | 10 | 138600 | 12@6 | CP_QAM64 | 20.11 | 13.36 | 34.77 | PASS |
| n71 | 30 | 10 | 138600 | 1@1 | CP_QAM64 | 20.29 | 13.54 | 34.77 | PASS |
| n71 | 30 | 10 | 138600 | 1@22 | CP_QAM64 | 20.31 | 13.56 | 34.77 | PASS |
| n71 | 30 | 10 | 138600 | 12@6 | CP_QAM256 | 17.08 | 10.33 | 34.77 | PASS |
| n71 | 30 | 10 | 138600 | 1@1 | CP_QAM256 | 16.99 | 10.24 | 34.77 | PASS |
| n71 | 30 | 10 | 138600 | 1@22 | CP_QAM256 | 17.01 | 10.26 | 34.77 | PASS |
| n71 | 30 | 15 | 134100 | 18@9 | DFT_BPSK | 23.71 | 16.96 | 34.77 | PASS |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| n71 | 30 | 15 | 134100 | 1@1 | DFT_BPSK | 23.68 | 16.93 | 34.77 | PASS |
| n71 | 30 | 15 | 134100 | 1@36 | DFT_BPSK | 23.43 | 16.68 | 34.77 | PASS |
| n71 | 30 | 15 | 134100 | 18@9 | DFT_QPSK | 23.67 | 16.92 | 34.77 | PASS |
| n71 | 30 | 15 | 134100 | 1@1 | DFT_QPSK | 23.51 | 16.76 | 34.77 | PASS |
| n71 | 30 | 15 | 134100 | 1@36 | DFT_QPSK | 23.40 | 16.65 | 34.77 | PASS |
| n71 | 30 | 15 | 134100 | 18@9 | DFT_QAM16 | 22.75 | 16 | 34.77 | PASS |
| n71 | 30 | 15 | 134100 | 1@1 | DFT_QAM16 | 22.79 | 16.04 | 34.77 | PASS |
| n71 | 30 | 15 | 134100 | 1@36 | DFT_QAM16 | 22.67 | 15.92 | 34.77 | PASS |
| n71 | 30 | 15 | 134100 | 18@9 | DFT_QAM64 | 21.25 | 14.5 | 34.77 | PASS |
| n71 | 30 | 15 | 134100 | 1@1 | DFT_QAM64 | 21.32 | 14.57 | 34.77 | PASS |
| n71 | 30 | 15 | 134100 | 1@36 | DFT_QAM64 | 21.00 | 14.25 | 34.77 | PASS |
| n71 | 30 | 15 | 134100 | 18@9 | DFT_QAM256 | 19.29 | 12.54 | 34.77 | PASS |
| n71 | 30 | 15 | 134100 | 1@1 | DFT_QAM256 | 18.97 | 12.22 | 34.77 | PASS |
| n71 | 30 | 15 | 134100 | 1@36 | DFT_QAM256 | 19.42 | 12.67 | 34.77 | PASS |
| n71 | 30 | 15 | 134100 | 19@9 | CP_QPSK | 22.23 | 15.48 | 34.77 | PASS |
| n71 | 30 | 15 | 134100 | 1@1 | CP_QPSK | 22.11 | 15.36 | 34.77 | PASS |
| n71 | 30 | 15 | 134100 | 1@36 | CP_QPSK | 22.08 | 15.33 | 34.77 | PASS |
| n71 | 30 | 15 | 134100 | 19@9 | CP_QAM16 | 21.81 | 15.06 | 34.77 | PASS |
| n71 | 30 | 15 | 134100 | 1@1 | CP_QAM16 | 21.85 | 15.1 | 34.77 | PASS |
| n71 | 30 | 15 | 134100 | 1@36 | CP_QAM16 | 21.79 | 15.04 | 34.77 | PASS |
| n71 | 30 | 15 | 134100 | 19@9 | CP_QAM64 | 20.21 | 13.46 | 34.77 | PASS |
| n71 | 30 | 15 | 134100 | 1@1 | CP_QAM64 | 20.67 | 13.92 | 34.77 | PASS |
| n71 | 30 | 15 | 134100 | 1@36 | CP_QAM64 | 20.37 | 13.62 | 34.77 | PASS |
| n71 | 30 | 15 | 134100 | 19@9 | CP_QAM256 | 17.30 | 10.55 | 34.77 | PASS |
| n71 | 30 | 15 | 134100 | 1@1 | CP_QAM256 | 17.25 | 10.5 | 34.77 | PASS |
| n71 | 30 | 15 | 134100 | 1@36 | CP_QAM256 | 16.97 | 10.22 | 34.77 | PASS |
| n71 | 30 | 15 | 136100 | 18@9 | DFT_BPSK | 23.49 | 16.74 | 34.77 | PASS |
| n71 | 30 | 15 | 136100 | 1@1 | DFT_BPSK | 23.64 | 16.89 | 34.77 | PASS |
| n71 | 30 | 15 | 136100 | 1@36 | DFT_BPSK | 23.40 | 16.65 | 34.77 | PASS |
| n71 | 30 | 15 | 136100 | 18@9 | DFT_QPSK | 23.56 | 16.81 | 34.77 | PASS |
| n71 | 30 | 15 | 136100 | 1@1 | DFT_QPSK | 23.45 | 16.7 | 34.77 | PASS |
| n71 | 30 | 15 | 136100 | 1@36 | DFT_QPSK | 23.18 | 16.43 | 34.77 | PASS |
| n71 | 30 | 15 | 136100 | 18@9 | DFT_QAM16 | 22.65 | 15.9 | 34.77 | PASS |
| n71 | 30 | 15 | 136100 | 1@1 | DFT_QAM16 | 22.83 | 16.08 | 34.77 | PASS |
| n71 | 30 | 15 | 136100 | 1@36 | DFT_QAM16 | 22.87 | 16.12 | 34.77 | PASS |
| n71 | 30 | 15 | 136100 | 18@9 | DFT_QAM64 | 21.12 | 14.37 | 34.77 | PASS |
| n71 | 30 | 15 | 136100 | 1@1 | DFT_QAM64 | 21.20 | 14.45 | 34.77 | PASS |
| n71 | 30 | 15 | 136100 | 1@36 | DFT_QAM64 | 20.87 | 14.12 | 34.77 | PASS |
| n71 | 30 | 15 | 136100 | 18@9 | DFT_QAM256 | 19.03 | 12.28 | 34.77 | PASS |
| n71 | 30 | 15 | 136100 | 1@1 | DFT_QAM256 | 19.54 | 12.79 | 34.77 | PASS |
| n71 | 30 | 15 | 136100 | 1@36 | DFT_QAM256 | 19.23 | 12.48 | 34.77 | PASS |
| n71 | 30 | 15 | 136100 | 19@9 | CP_QPSK | 22.05 | 15.3 | 34.77 | PASS |
| n71 | 30 | 15 | 136100 | 1@1 | CP_QPSK | 22.24 | 15.49 | 34.77 | PASS |
| n71 | 30 | 15 | 136100 | 1@36 | CP_QPSK | 21.96 | 15.21 | 34.77 | PASS |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| n71 | 30 | 15 | 136100 | 19@9 | CP_QAM16 | 21.52 | 14.77 | 34.77 | PASS |
| n71 | 30 | 15 | 136100 | 1@1 | CP_QAM16 | 22.15 | 15.4 | 34.77 | PASS |
| n71 | 30 | 15 | 136100 | 1@36 | CP_QAM16 | 21.79 | 15.04 | 34.77 | PASS |
| n71 | 30 | 15 | 136100 | 19@9 | CP_QAM64 | 20.14 | 13.39 | 34.77 | PASS |
| n71 | 30 | 15 | 136100 | 1@1 | CP_QAM64 | 20.47 | 13.72 | 34.77 | PASS |
| n71 | 30 | 15 | 136100 | 1@36 | CP_QAM64 | 20.14 | 13.39 | 34.77 | PASS |
| n71 | 30 | 15 | 136100 | 19@9 | CP_QAM256 | 17.09 | 10.34 | 34.77 | PASS |
| n71 | 30 | 15 | 136100 | 1@1 | CP_QAM256 | 17.10 | 10.35 | 34.77 | PASS |
| n71 | 30 | 15 | 136100 | 1@36 | CP_QAM256 | 16.82 | 10.07 | 34.77 | PASS |
| n71 | 30 | 15 | 138100 | 18@9 | DFT_BPSK | 23.51 | 16.76 | 34.77 | PASS |
| n71 | 30 | 15 | 138100 | 1@1 | DFT_BPSK | 23.48 | 16.73 | 34.77 | PASS |
| n71 | 30 | 15 | 138100 | 1@36 | DFT_BPSK | 23.41 | 16.66 | 34.77 | PASS |
| n71 | 30 | 15 | 138100 | 18@9 | DFT_QPSK | 23.48 | 16.73 | 34.77 | PASS |
| n71 | 30 | 15 | 138100 | 1@1 | DFT_QPSK | 23.26 | 16.51 | 34.77 | PASS |
| n71 | 30 | 15 | 138100 | 1@36 | DFT_QPSK | 23.30 | 16.55 | 34.77 | PASS |
| n71 | 30 | 15 | 138100 | 18@9 | DFT_QAM16 | 22.56 | 15.81 | 34.77 | PASS |
| n71 | 30 | 15 | 138100 | 1@1 | DFT_QAM16 | 22.82 | 16.07 | 34.77 | PASS |
| n71 | 30 | 15 | 138100 | 1@36 | DFT_QAM16 | 22.60 | 15.85 | 34.77 | PASS |
| n71 | 30 | 15 | 138100 | 18@9 | DFT_QAM64 | 21.07 | 14.32 | 34.77 | PASS |
| n71 | 30 | 15 | 138100 | 1@1 | DFT_QAM64 | 21.25 | 14.5 | 34.77 | PASS |
| n71 | 30 | 15 | 138100 | 1@36 | DFT_QAM64 | 21.07 | 14.32 | 34.77 | PASS |
| n71 | 30 | 15 | 138100 | 18@9 | DFT_QAM256 | 19.15 | 12.4 | 34.77 | PASS |
| n71 | 30 | 15 | 138100 | 1@1 | DFT_QAM256 | 18.89 | 12.14 | 34.77 | PASS |
| n71 | 30 | 15 | 138100 | 1@36 | DFT_QAM256 | 19.34 | 12.59 | 34.77 | PASS |
| n71 | 30 | 15 | 138100 | 19@9 | CP_QPSK | 22.02 | 15.27 | 34.77 | PASS |
| n71 | 30 | 15 | 138100 | 1@1 | CP_QPSK | 22.02 | 15.27 | 34.77 | PASS |
| n71 | 30 | 15 | 138100 | 1@36 | CP_QPSK | 21.99 | 15.24 | 34.77 | PASS |
| n71 | 30 | 15 | 138100 | 19@9 | CP_QAM16 | 21.58 | 14.83 | 34.77 | PASS |
| n71 | 30 | 15 | 138100 | 1@1 | CP_QAM16 | 21.94 | 15.19 | 34.77 | PASS |
| n71 | 30 | 15 | 138100 | 1@36 | CP_QAM16 | 21.49 | 14.74 | 34.77 | PASS |
| n71 | 30 | 15 | 138100 | 19@9 | CP_QAM64 | 19.96 | 13.21 | 34.77 | PASS |
| n71 | 30 | 15 | 138100 | 1@1 | CP_QAM64 | 20.13 | 13.38 | 34.77 | PASS |
| n71 | 30 | 15 | 138100 | 1@36 | CP_QAM64 | 20.07 | 13.32 | 34.77 | PASS |
| n71 | 30 | 15 | 138100 | 19@9 | CP_QAM256 | 17.00 | 10.25 | 34.77 | PASS |
| n71 | 30 | 15 | 138100 | 1@1 | CP_QAM256 | 16.92 | 10.17 | 34.77 | PASS |
| n71 | 30 | 15 | 138100 | 1@36 | CP_QAM256 | 16.79 | 10.04 | 34.77 | PASS |
| n71 | 30 | 20 | 134600 | 25@12 | DFT_BPSK | 23.61 | 16.86 | 34.77 | PASS |
| n71 | 30 | 20 | 134600 | 1@1 | DFT_BPSK | 23.58 | 16.83 | 34.77 | PASS |
| n71 | 30 | 20 | 134600 | 1@49 | DFT_BPSK | 23.35 | 16.6 | 34.77 | PASS |
| n71 | 30 | 20 | 134600 | 25@12 | DFT_QPSK | 23.73 | 16.98 | 34.77 | PASS |
| n71 | 30 | 20 | 134600 | 1@1 | DFT_QPSK | 23.58 | 16.83 | 34.77 | PASS |
| n71 | 30 | 20 | 134600 | 1@49 | DFT_QPSK | 23.19 | 16.44 | 34.77 | PASS |
| n71 | 30 | 20 | 134600 | 25@12 | DFT_QAM16 | 22.63 | 15.88 | 34.77 | PASS |
| n71 | 30 | 20 | 134600 | 1@1 | DFT_QAM16 | 22.96 | 16.21 | 34.77 | PASS |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| n71 | 30 | 20 | 134600 | 1@49 | DFT_QAM16 | 22.56 | 15.81 | 34.77 | PASS |
| n71 | 30 | 20 | 134600 | 25@12 | DFT_QAM64 | 21.16 | 14.41 | 34.77 | PASS |
| n71 | 30 | 20 | 134600 | 1@1 | DFT_QAM64 | 21.34 | 14.59 | 34.77 | PASS |
| n71 | 30 | 20 | 134600 | 1@49 | DFT_QAM64 | 21.12 | 14.37 | 34.77 | PASS |
| n71 | 30 | 20 | 134600 | 25@12 | DFT_QAM256 | 19.25 | 12.5 | 34.77 | PASS |
| n71 | 30 | 20 | 134600 | 1@1 | DFT_QAM256 | 19.60 | 12.85 | 34.77 | PASS |
| n71 | 30 | 20 | 134600 | 1@49 | DFT_QAM256 | 18.82 | 12.07 | 34.77 | PASS |
| n71 | 30 | 20 | 134600 | 25@12 | CP_QPSK | 22.21 | 15.46 | 34.77 | PASS |
| n71 | 30 | 20 | 134600 | 1@1 | CP_QPSK | 22.07 | 15.32 | 34.77 | PASS |
| n71 | 30 | 20 | 134600 | 1@49 | CP_QPSK | 21.84 | 15.09 | 34.77 | PASS |
| n71 | 30 | 20 | 134600 | 25@12 | CP_QAM16 | 21.61 | 14.86 | 34.77 | PASS |
| n71 | 30 | 20 | 134600 | 1@1 | CP_QAM16 | 22.20 | 15.45 | 34.77 | PASS |
| n71 | 30 | 20 | 134600 | 1@49 | CP_QAM16 | 21.47 | 14.72 | 34.77 | PASS |
| n71 | 30 | 20 | 134600 | 25@12 | CP_QAM64 | 20.10 | 13.35 | 34.77 | PASS |
| n71 | 30 | 20 | 134600 | 1@1 | CP_QAM64 | 20.32 | 13.57 | 34.77 | PASS |
| n71 | 30 | 20 | 134600 | 1@49 | CP_QAM64 | 19.93 | 13.18 | 34.77 | PASS |
| n71 | 30 | 20 | 134600 | 25@12 | CP_QAM256 | 17.35 | 10.6 | 34.77 | PASS |
| n71 | 30 | 20 | 134600 | 1@1 | CP_QAM256 | 17.16 | 10.41 | 34.77 | PASS |
| n71 | 30 | 20 | 134600 | 1@49 | CP_QAM256 | 16.80 | 10.05 | 34.77 | PASS |
| n71 | 30 | 20 | 136100 | 25@12 | DFT_BPSK | 23.56 | 16.81 | 34.77 | PASS |
| n71 | 30 | 20 | 136100 | 1@1 | DFT_BPSK | 23.62 | 16.87 | 34.77 | PASS |
| n71 | 30 | 20 | 136100 | 1@49 | DFT_BPSK | 23.32 | 16.57 | 34.77 | PASS |
| n71 | 30 | 20 | 136100 | 25@12 | DFT_QPSK | 23.53 | 16.78 | 34.77 | PASS |
| n71 | 30 | 20 | 136100 | 1@1 | DFT_QPSK | 23.48 | 16.73 | 34.77 | PASS |
| n71 | 30 | 20 | 136100 | 1@49 | DFT_QPSK | 23.22 | 16.47 | 34.77 | PASS |
| n71 | 30 | 20 | 136100 | 25@12 | DFT_QAM16 | 22.59 | 15.84 | 34.77 | PASS |
| n71 | 30 | 20 | 136100 | 1@1 | DFT_QAM16 | 22.75 | 16 | 34.77 | PASS |
| n71 | 30 | 20 | 136100 | 1@49 | DFT_QAM16 | 22.71 | 15.96 | 34.77 | PASS |
| n71 | 30 | 20 | 136100 | 25@12 | DFT_QAM64 | 21.10 | 14.35 | 34.77 | PASS |
| n71 | 30 | 20 | 136100 | 1@1 | DFT_QAM64 | 21.27 | 14.52 | 34.77 | PASS |
| n71 | 30 | 20 | 136100 | 1@49 | DFT_QAM64 | 20.89 | 14.14 | 34.77 | PASS |
| n71 | 30 | 20 | 136100 | 25@12 | DFT_QAM256 | 19.15 | 12.4 | 34.77 | PASS |
| n71 | 30 | 20 | 136100 | 1@1 | DFT_QAM256 | 19.50 | 12.75 | 34.77 | PASS |
| n71 | 30 | 20 | 136100 | 1@49 | DFT_QAM256 | 19.29 | 12.54 | 34.77 | PASS |
| n71 | 30 | 20 | 136100 | 25@12 | CP_QPSK | 22.18 | 15.43 | 34.77 | PASS |
| n71 | 30 | 20 | 136100 | 1@1 | CP_QPSK | 22.14 | 15.39 | 34.77 | PASS |
| n71 | 30 | 20 | 136100 | 1@49 | CP_QPSK | 21.98 | 15.23 | 34.77 | PASS |
| n71 | 30 | 20 | 136100 | 25@12 | CP_QAM16 | 21.60 | 14.85 | 34.77 | PASS |
| n71 | 30 | 20 | 136100 | 1@1 | CP_QAM16 | 21.89 | 15.14 | 34.77 | PASS |
| n71 | 30 | 20 | 136100 | 1@49 | CP_QAM16 | 21.43 | 14.68 | 34.77 | PASS |
| n71 | 30 | 20 | 136100 | 25@12 | CP_QAM64 | 20.01 | 13.26 | 34.77 | PASS |
| n71 | 30 | 20 | 136100 | 1@1 | CP_QAM64 | 20.23 | 13.48 | 34.77 | PASS |
| n71 | 30 | 20 | 136100 | 1@49 | CP_QAM64 | 19.96 | 13.21 | 34.77 | PASS |
| n71 | 30 | 20 | 136100 | 25@12 | CP_QAM256 | 17.25 | 10.5 | 34.77 | PASS |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| n71 | 30 | 20 | 136100 | 1@1 | CP_QAM256 | 16.91 | 10.16 | 34.77 | PASS |
| n71 | 30 | 20 | 136100 | 1@49 | CP_QAM256 | 16.69 | 9.94 | 34.77 | PASS |
| n71 | 30 | 20 | 137600 | 25@12 | DFT_BPSK | 23.56 | 16.81 | 34.77 | PASS |
| n71 | 30 | 20 | 137600 | 1@1 | DFT_BPSK | 23.47 | 16.72 | 34.77 | PASS |
| n71 | 30 | 20 | 137600 | 1@49 | DFT_BPSK | 23.41 | 16.66 | 34.77 | PASS |
| n71 | 30 | 20 | 137600 | 25@12 | DFT_QPSK | 23.43 | 16.68 | 34.77 | PASS |
| n71 | 30 | 20 | 137600 | 1@1 | DFT_QPSK | 23.37 | 16.62 | 34.77 | PASS |
| n71 | 30 | 20 | 137600 | 1@49 | DFT_QPSK | 23.30 | 16.55 | 34.77 | PASS |
| n71 | 30 | 20 | 137600 | 25@12 | DFT_QAM16 | 22.62 | 15.87 | 34.77 | PASS |
| n71 | 30 | 20 | 137600 | 1@1 | DFT_QAM16 | 22.65 | 15.9 | 34.77 | PASS |
| n71 | 30 | 20 | 137600 | 1@49 | DFT_QAM16 | 22.87 | 16.12 | 34.77 | PASS |
| n71 | 30 | 20 | 137600 | 25@12 | DFT_QAM64 | 21.03 | 14.28 | 34.77 | PASS |
| n71 | 30 | 20 | 137600 | 1@1 | DFT_QAM64 | 21.00 | 14.25 | 34.77 | PASS |
| n71 | 30 | 20 | 137600 | 1@49 | DFT_QAM64 | 20.95 | 14.2 | 34.77 | PASS |
| n71 | 30 | 20 | 137600 | 25@12 | DFT_QAM256 | 19.19 | 12.44 | 34.77 | PASS |
| n71 | 30 | 20 | 137600 | 1@1 | DFT_QAM256 | 18.71 | 11.96 | 34.77 | PASS |
| n71 | 30 | 20 | 137600 | 1@49 | DFT_QAM256 | 19.27 | 12.52 | 34.77 | PASS |
| n71 | 30 | 20 | 137600 | 25@12 | CP_QPSK | 22.04 | 15.29 | 34.77 | PASS |
| n71 | 30 | 20 | 137600 | 1@1 | CP_QPSK | 22.08 | 15.33 | 34.77 | PASS |
| n71 | 30 | 20 | 137600 | 1@49 | CP_QPSK | 22.11 | 15.36 | 34.77 | PASS |
| n71 | 30 | 20 | 137600 | 25@12 | CP_QAM16 | 21.53 | 14.78 | 34.77 | PASS |
| n71 | 30 | 20 | 137600 | 1@1 | CP_QAM16 | 21.63 | 14.88 | 34.77 | PASS |
| n71 | 30 | 20 | 137600 | 1@49 | CP_QAM16 | 21.48 | 14.73 | 34.77 | PASS |
| n71 | 30 | 20 | 137600 | 25@12 | CP_QAM64 | 20.03 | 13.28 | 34.77 | PASS |
| n71 | 30 | 20 | 137600 | 1@1 | CP_QAM64 | 20.31 | 13.56 | 34.77 | PASS |
| n71 | 30 | 20 | 137600 | 1@49 | CP_QAM64 | 20.19 | 13.44 | 34.77 | PASS |
| n71 | 30 | 20 | 137600 | 25@12 | CP_QAM256 | 17.10 | 10.35 | 34.77 | PASS |
| n71 | 30 | 20 | 137600 | 1@1 | CP_QAM256 | 17.04 | 10.29 | 34.77 | PASS |
| n71 | 30 | 20 | 137600 | 1@49 | CP_QAM256 | 16.85 | 10.1 | 34.77 | PASS |

# 2. Frequency stability for NR FR1

**NT:**

| Band | SCS (kHz) | Bandwidth (MHz) | UL Channel | RB Allocation | Modulation | Voltage (Vdc) | Result(Hz) | Result (ppm) | Limit (ppm) | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| n71 | 30 | 20 | 136100 | 25@12 | DFT_BPSK | 3.87 | -6.08 | -0.01 | Within authorized band for 5G NR n71 | PASS |
| n71 | 30 | 20 | 136100 | 25@12 | DFT_BPSK | 3.50 | -6.36 | -0.01 | | PASS |
| n71 | 30 | 20 | 136100 | 25@12 | DFT_BPSK | 4.45 | -6.30 | -0.01 | | PASS |
| n71 | 30 | 20 | 136100 | 25@12 | DFT_QPSK | 3.87 | -6.81 | -0.01 | | PASS |
| n71 | 30 | 20 | 136100 | 25@12 | DFT_QPSK | 3.50 | -6.82 | -0.01 | | PASS |
| n71 | 30 | 20 | 136100 | 25@12 | DFT_QPSK | 4.45 | -4.78 | -0.01 | | PASS |

*Note: Only the worst case shown in the report.*

**NV:**

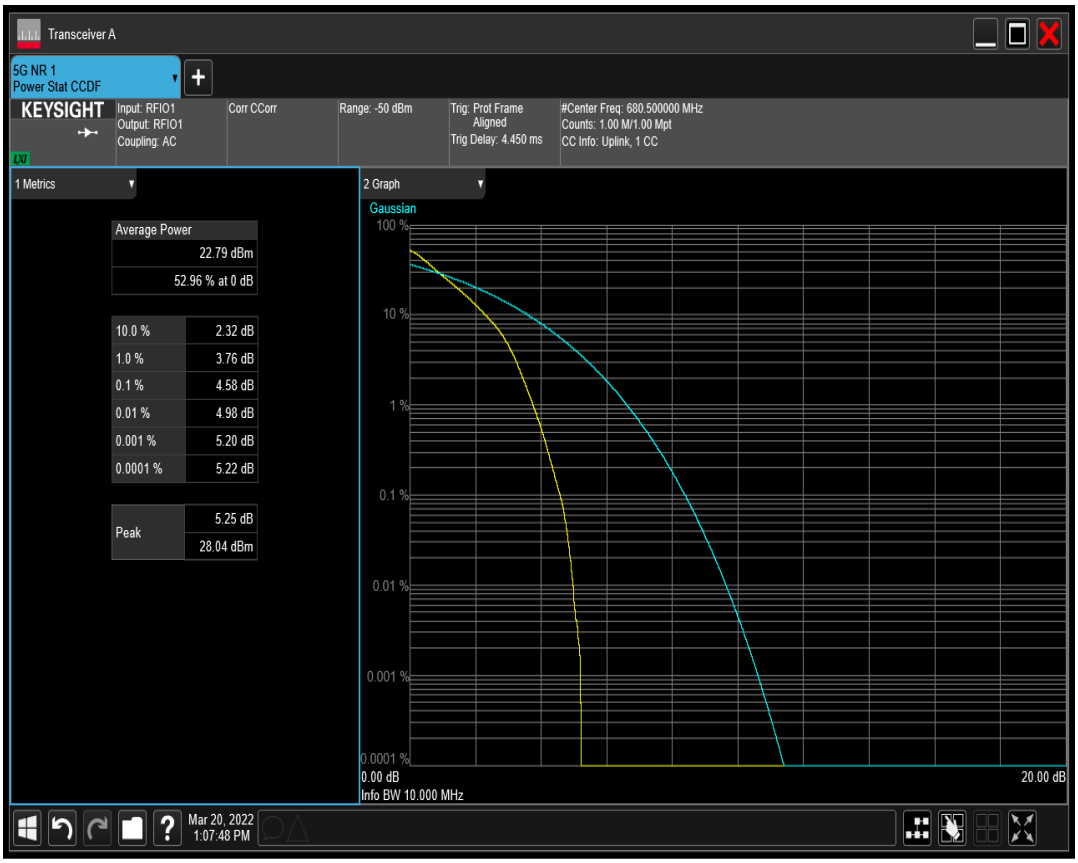
| Band | SCS (kHz) | Bandwidth (MHz) | UL Channel | RB Allocation | Modulation | Temperature(℃) | Result(Hz) | Result (ppm) | Limit (ppm) | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| n71 | 30 | 20 | 136100 | 25@12 | DFT_BPSK | -30 | -6.12 | -6.12 | Within authorized band for 5G NR n71 | PASS |
| n71 | 30 | 20 | 136100 | 25@12 | DFT_BPSK | -20 | -6.72 | -6.72 | | PASS |
| n71 | 30 | 20 | 136100 | 25@12 | DFT_BPSK | -10 | -6.64 | -6.64 | | PASS |
| n71 | 30 | 20 | 136100 | 25@12 | DFT_BPSK | 0 | -7.25 | -7.25 | | PASS |
| n71 | 30 | 20 | 136100 | 25@12 | DFT_BPSK | 10 | -6.94 | -6.94 | | PASS |
| n71 | 30 | 20 | 136100 | 25@12 | DFT_BPSK | 20 | -5.88 | -5.88 | | PASS |
| n71 | 30 | 20 | 136100 | 25@12 | DFT_BPSK | 30 | -6.13 | -6.13 | | PASS |
| n71 | 30 | 20 | 136100 | 25@12 | DFT_BPSK | 40 | -6.36 | -6.36 | | PASS |
| n71 | 30 | 20 | 136100 | 25@12 | DFT_BPSK | 50 | -6.71 | -6.71 | | PASS |
| n71 | 30 | 20 | 136100 | 25@12 | DFT_QPSK | -30 | -6.75 | -6.75 | | PASS |
| n71 | 30 | 20 | 136100 | 25@12 | DFT_QPSK | -20 | -5.08 | -5.08 | | PASS |
| n71 | 30 | 20 | 136100 | 25@12 | DFT_QPSK | -10 | -6.35 | -6.35 | | PASS |
| n71 | 30 | 20 | 136100 | 25@12 | DFT_QPSK | 0 | -6.69 | -6.69 | | PASS |
| n71 | 30 | 20 | 136100 | 25@12 | DFT_QPSK | 10 | -6.63 | -6.63 | | PASS |
| n71 | 30 | 20 | 136100 | 25@12 | DFT_QPSK | 20 | -6.36 | -6.36 | | PASS |
| n71 | 30 | 20 | 136100 | 25@12 | DFT_QPSK | 30 | -7.23 | -7.23 | | PASS |
| n71 | 30 | 20 | 136100 | 25@12 | DFT_QPSK | 40 | -4.35 | -4.35 | | PASS |
| n71 | 30 | 20 | 136100 | 25@12 | DFT_QPSK | 50 | -6.11 | -6.11 | | PASS |

*Note: Only the worst case shown in the report.*

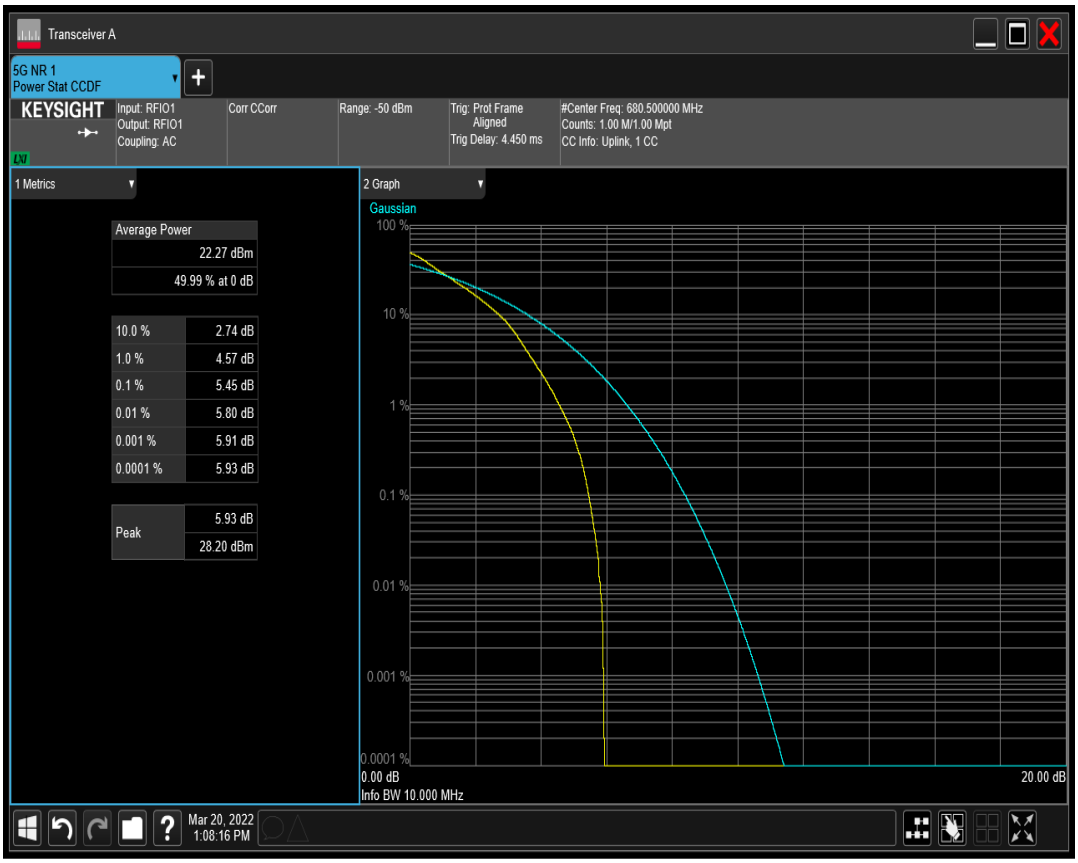
# 3. Peak-to-Average Ratio for NR FR1

| Band | SCS (kHz) | Bandwidth (MHz) | UL Channel | RB Allocation | Modulation | Result (dB) | high Limit (dB) | Verdict |
|---|---|---|---|---|---|---|---|---|
| n71 | 30 | 10 | 136100 | 24@0 | DFT_BPSK | 4.58 | 13 | PASS |
| n71 | 30 | 10 | 136100 | 24@0 | DFT_QPSK | 5.45 | 13 | PASS |
| n71 | 30 | 10 | 136100 | 24@0 | DFT_QAM16 | 6.37 | 13 | PASS |
| n71 | 30 | 10 | 136100 | 24@0 | DFT_QAM64 | 6.70 | 13 | PASS |
| n71 | 30 | 10 | 136100 | 24@0 | DFT_QAM256 | 7.06 | 13 | PASS |
| n71 | 30 | 15 | 136100 | 36@0 | DFT_BPSK | 4.72 | 13 | PASS |
| n71 | 30 | 15 | 136100 | 36@0 | DFT_QPSK | 5.68 | 13 | PASS |
| n71 | 30 | 15 | 136100 | 36@0 | DFT_QAM16 | 6.56 | 13 | PASS |
| n71 | 30 | 15 | 136100 | 36@0 | DFT_QAM64 | 6.75 | 13 | PASS |
| n71 | 30 | 15 | 136100 | 36@0 | DFT_QAM256 | 7.26 | 13 | PASS |
| n71 | 30 | 20 | 136100 | 50@0 | DFT_BPSK | 4.78 | 13 | PASS |
| n71 | 30 | 20 | 136100 | 50@0 | DFT_QPSK | 5.81 | 13 | PASS |
| n71 | 30 | 20 | 136100 | 50@0 | DFT_QAM16 | 6.49 | 13 | PASS |
| n71 | 30 | 20 | 136100 | 50@0 | DFT_QAM64 | 6.94 | 13 | PASS |
| n71 | 30 | 20 | 136100 | 50@0 | DFT_QAM256 | 7.10 | 13 | PASS |

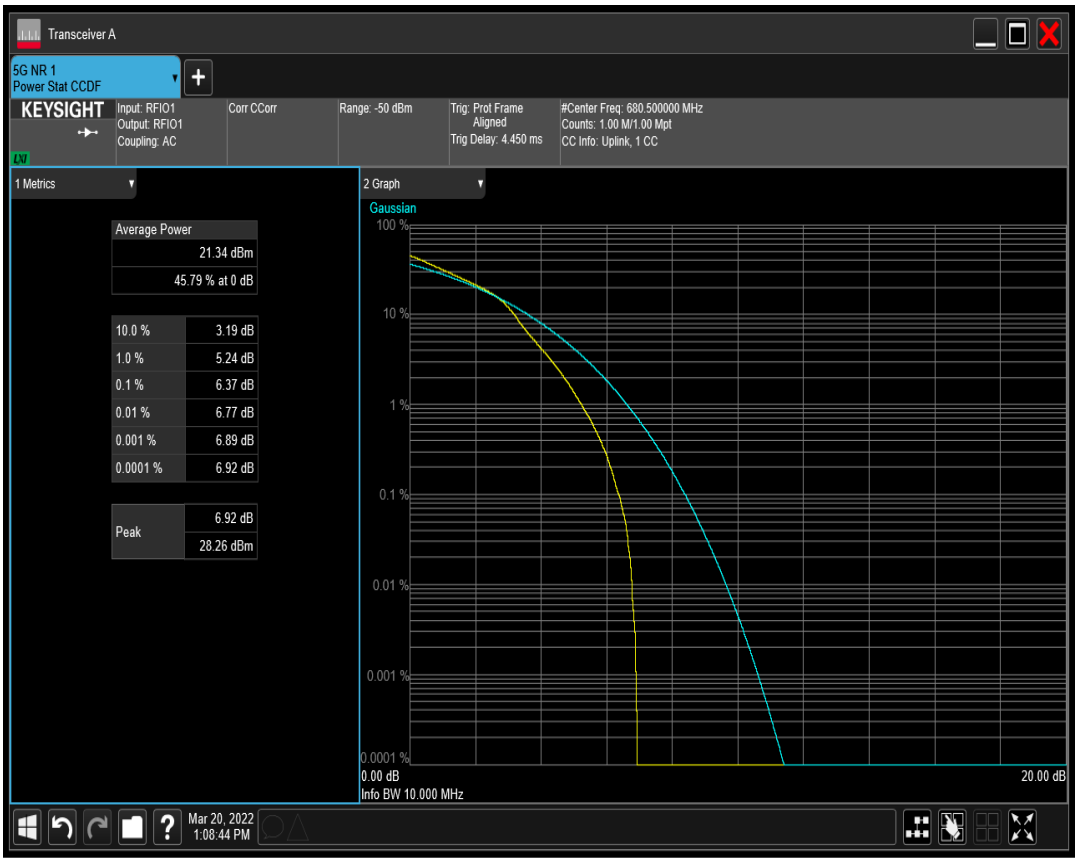
n71 SCS=30kHz DFT_BPSK BW=10MHz Channel=136100 RB=24@0



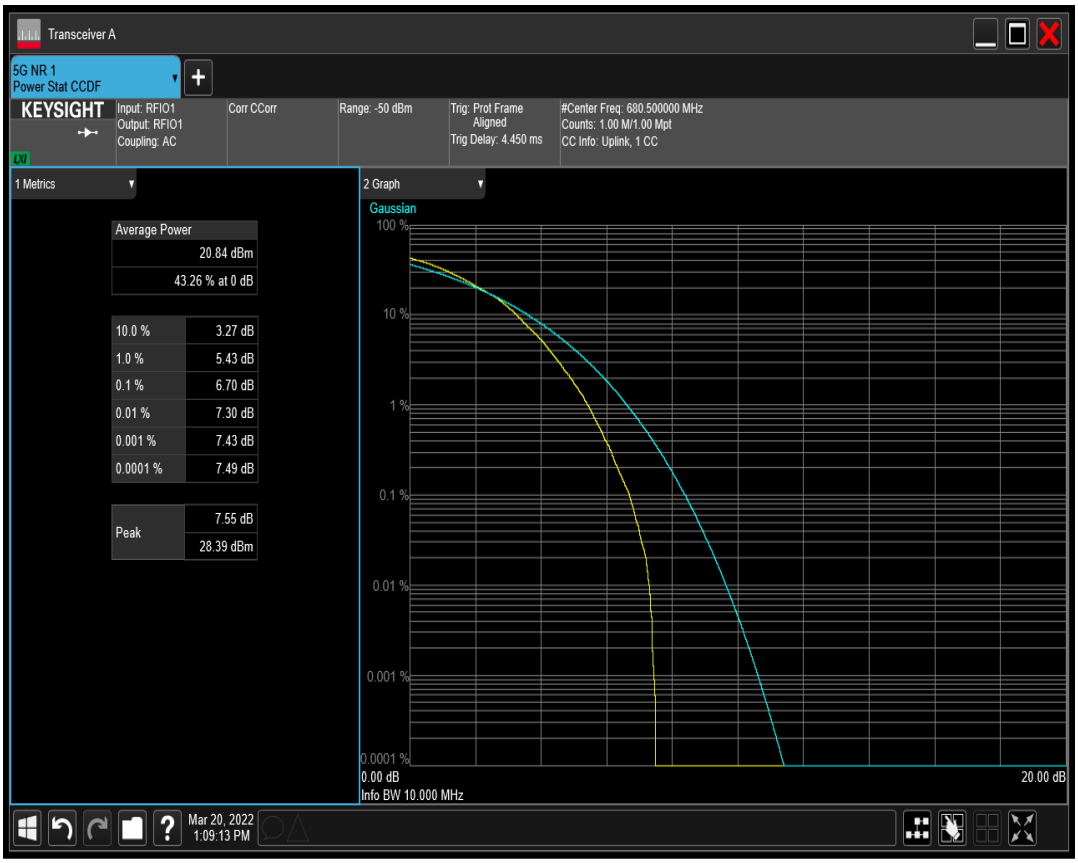

n71 SCS=30kHz DFT_QPSK BW=10MHz Channel=136100 RB=24@0



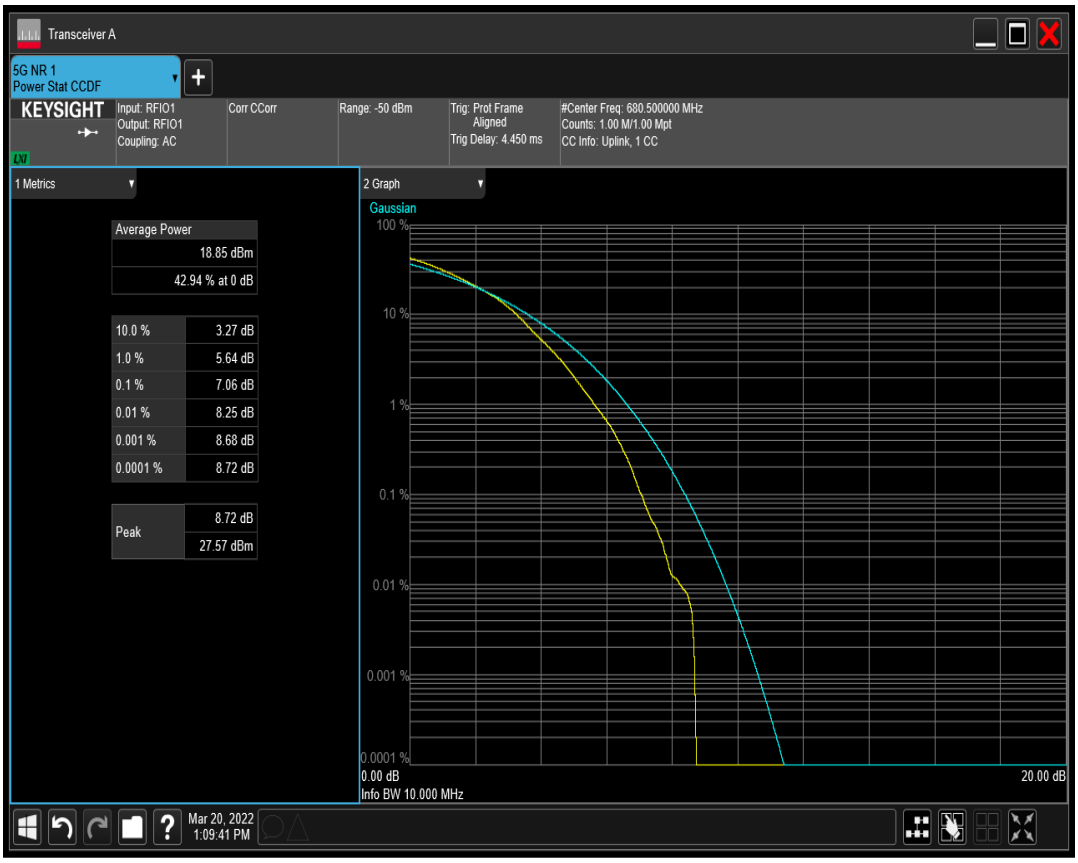

n71 SCS=30kHz DFT_QAM16 BW=10MHz Channel=136100 RB=24@0



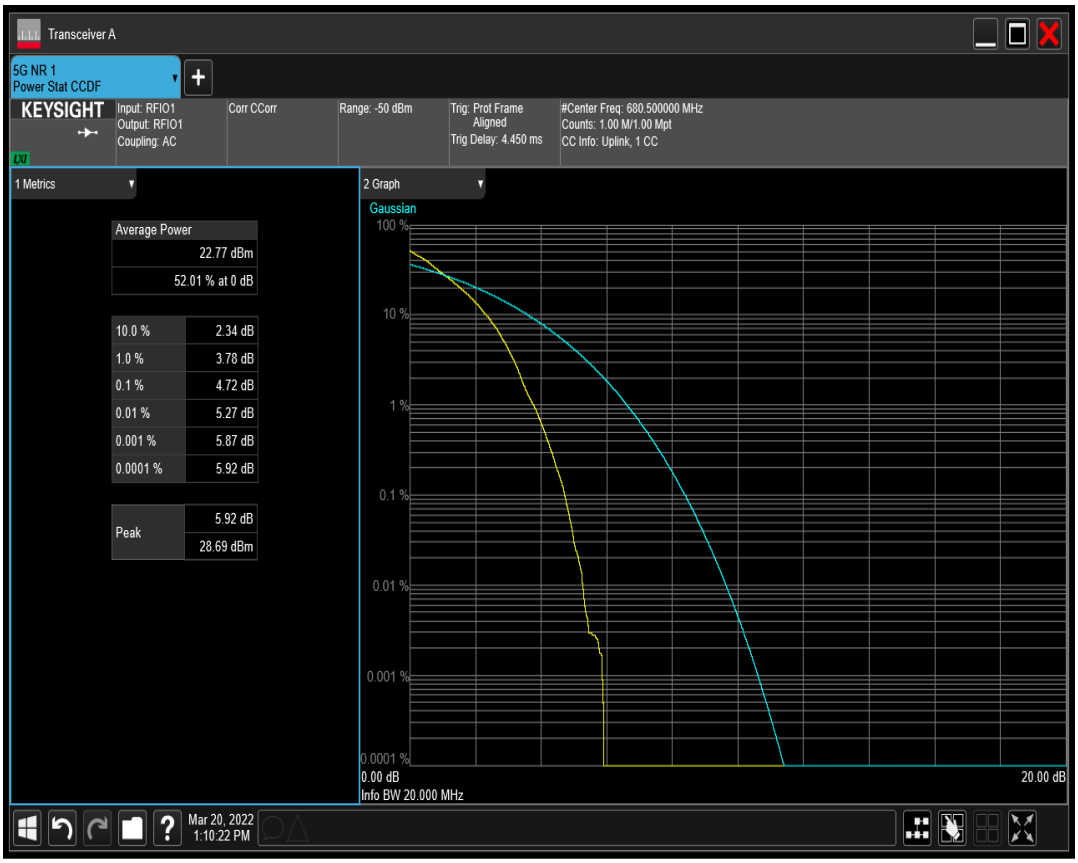

n71 SCS=30kHz DFT_QAM64 BW=10MHz Channel=136100 RB=24@0



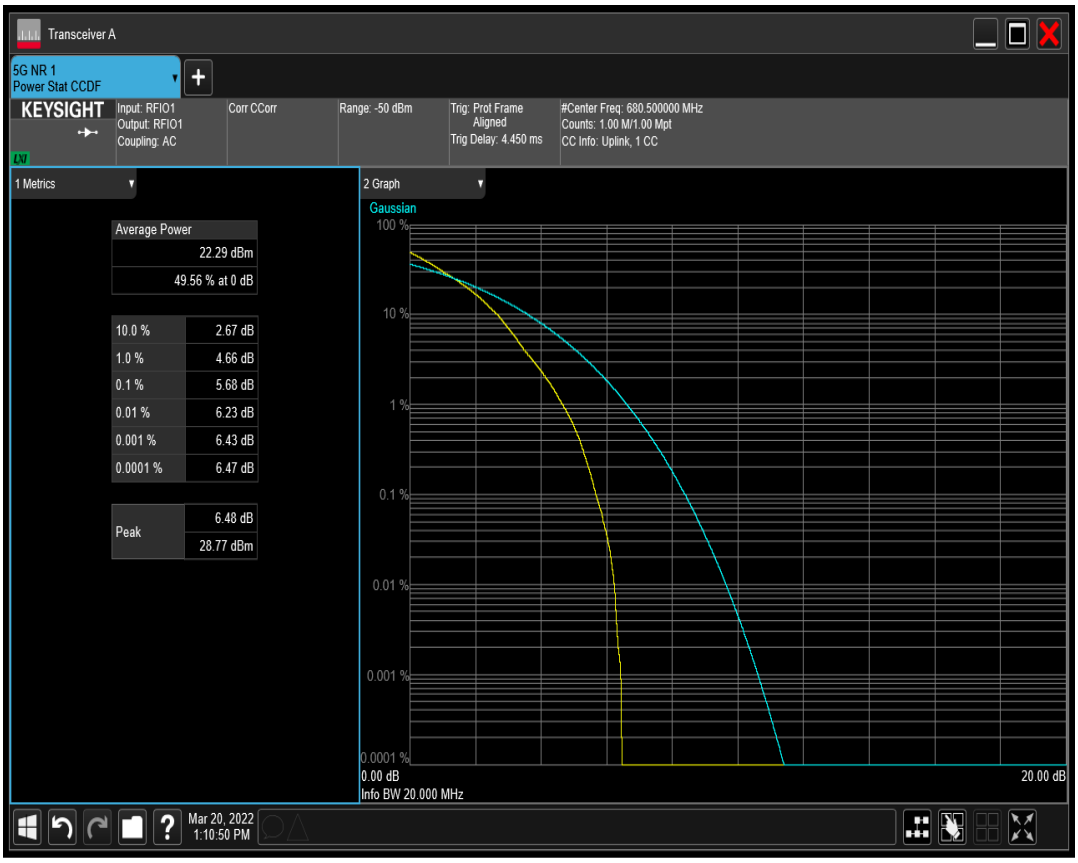

n71 SCS=30kHz DFT_QAM256 BW=10MHz Channel=136100 RB=24@0



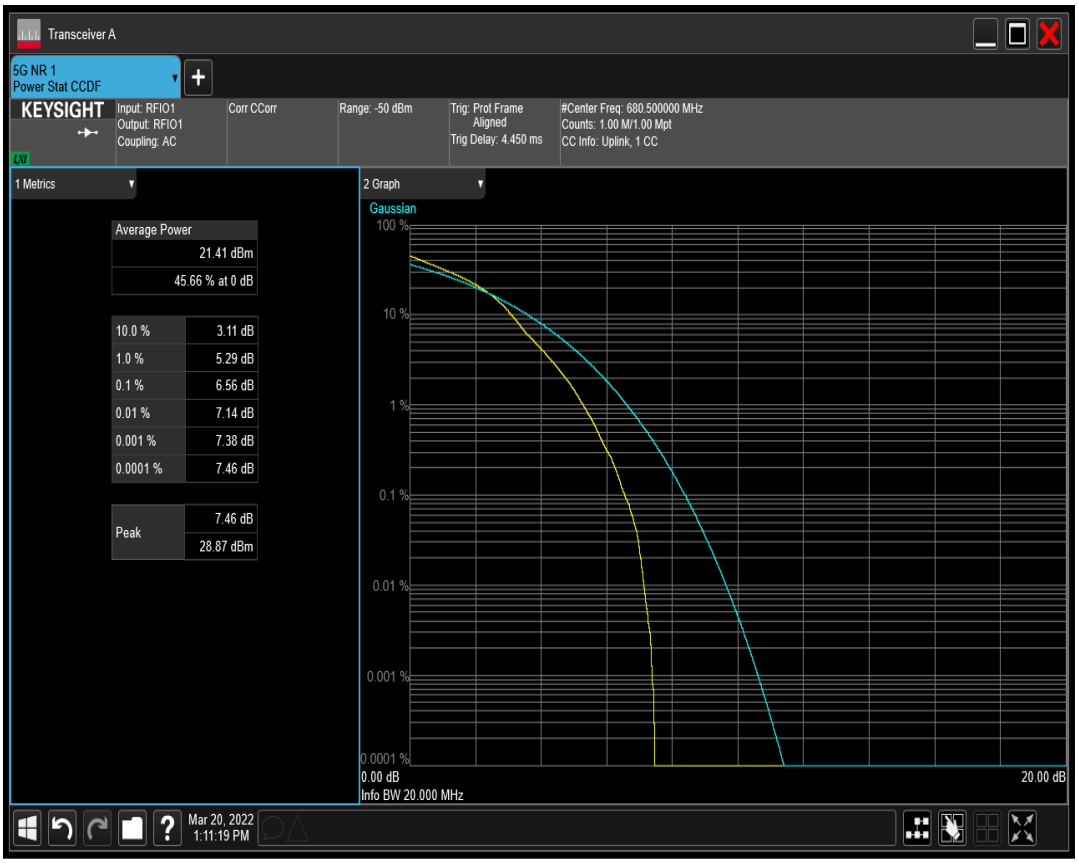

n71 SCS=30kHz DFT_BPSK BW=15MHz Channel=136100 RB=36@0



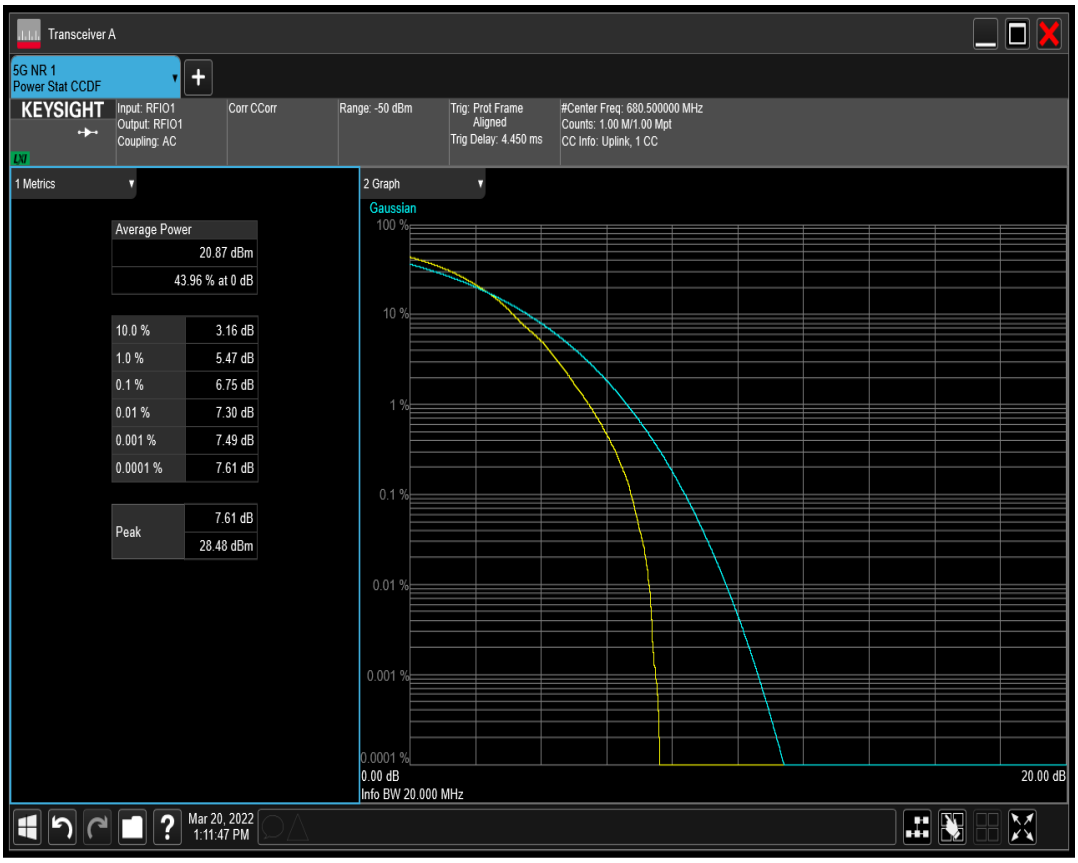

n71 SCS=30kHz DFT_QPSK BW=15MHz Channel=136100 RB=36@0



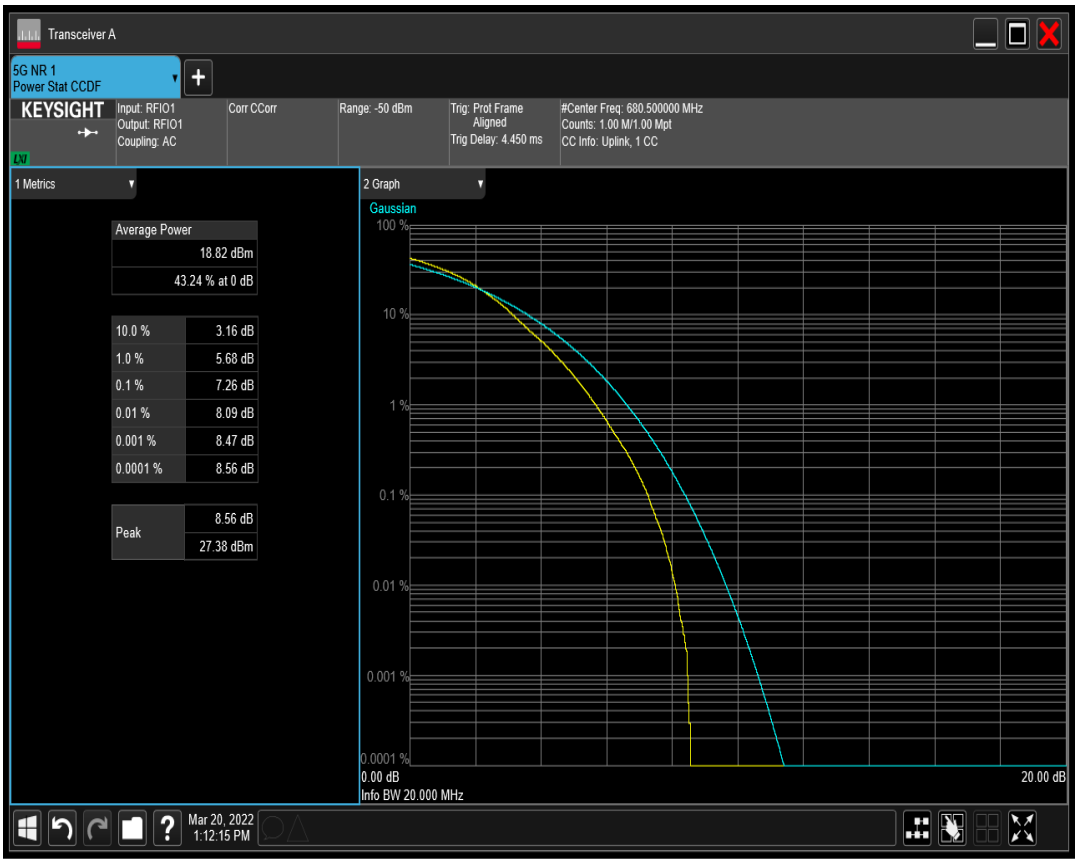

n71 SCS=30kHz DFT_QAM16 BW=15MHz Channel=136100 RB=36@0



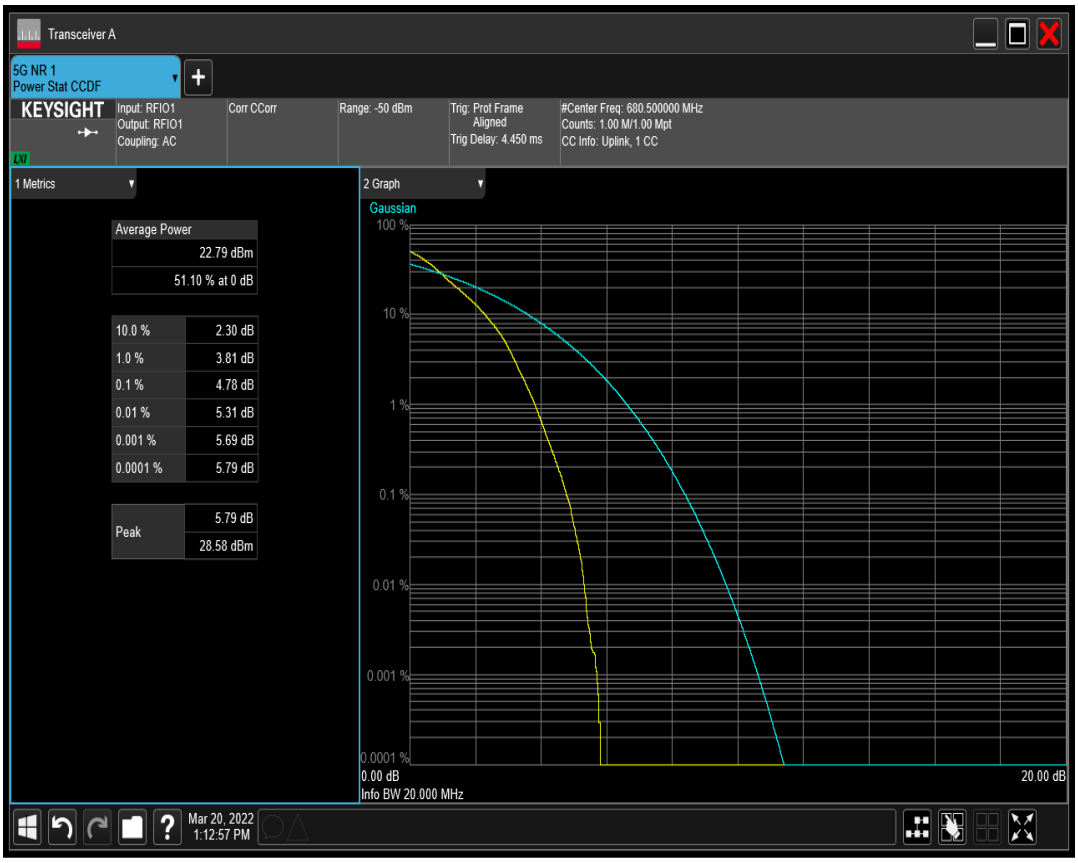

n71 SCS=30kHz DFT_QAM64 BW=15MHz Channel=136100 RB=36@0



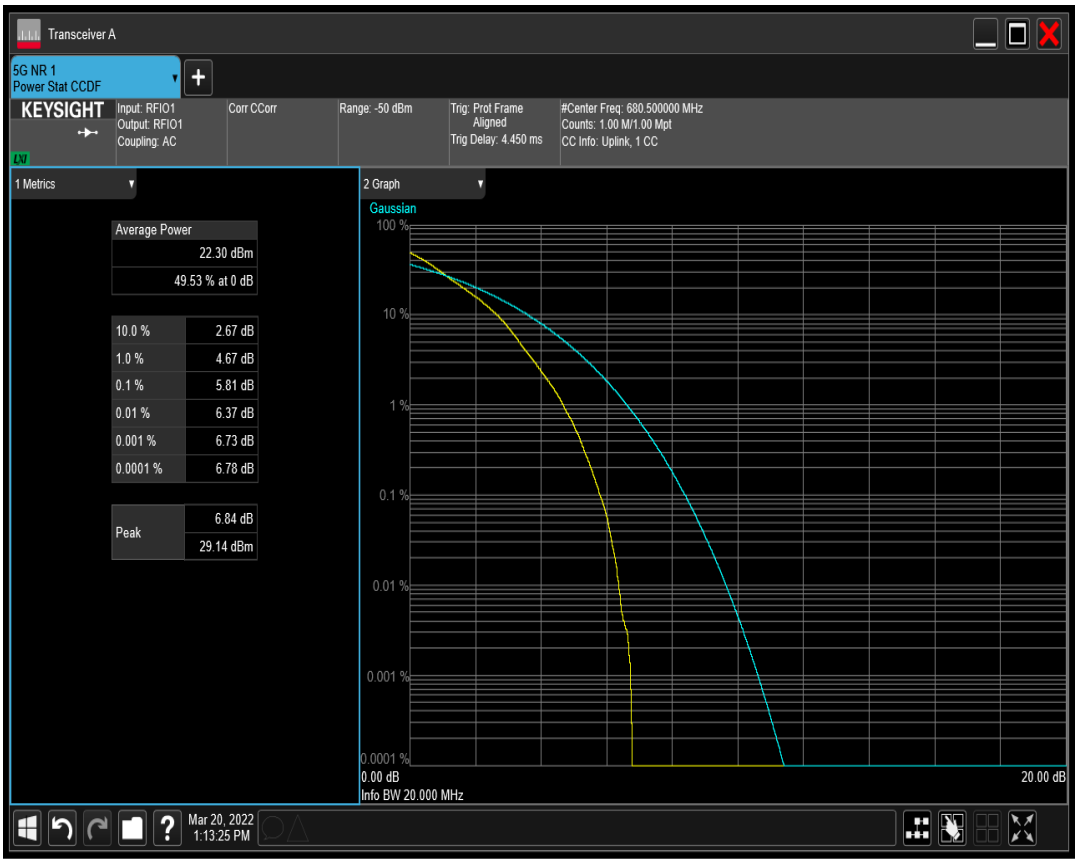

n71 SCS=30kHz DFT_QAM256 BW=15MHz Channel=136100 RB=36@0



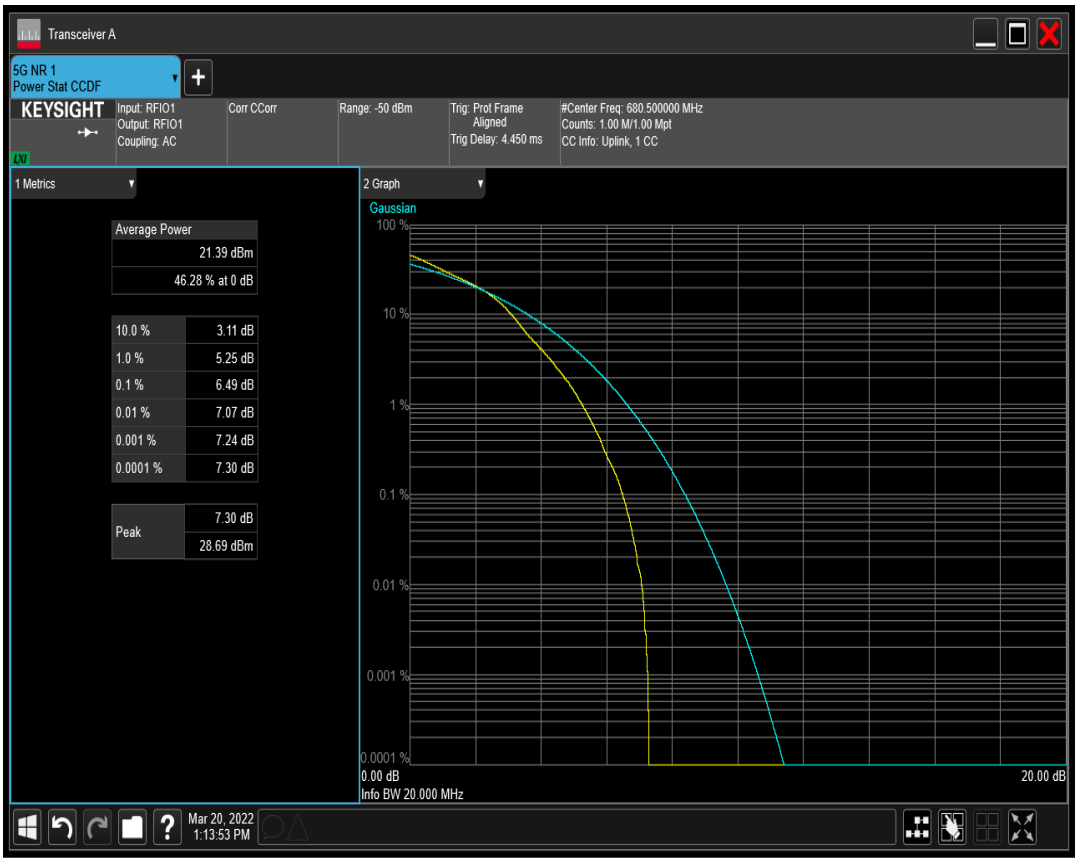

n71 SCS=30kHz DFT_BPSK BW=20MHz Channel=136100 RB=50@0



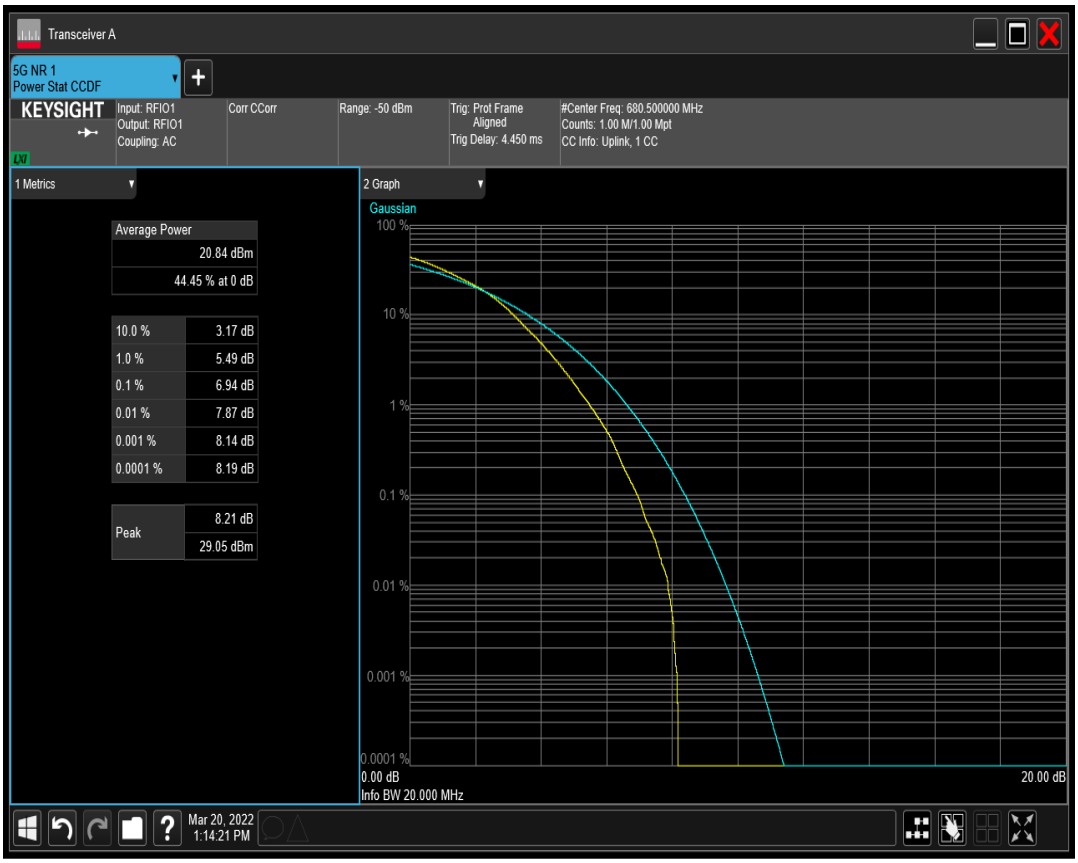

n71 SCS=30kHz DFT_QPSK BW=20MHz Channel=136100 RB=50@0



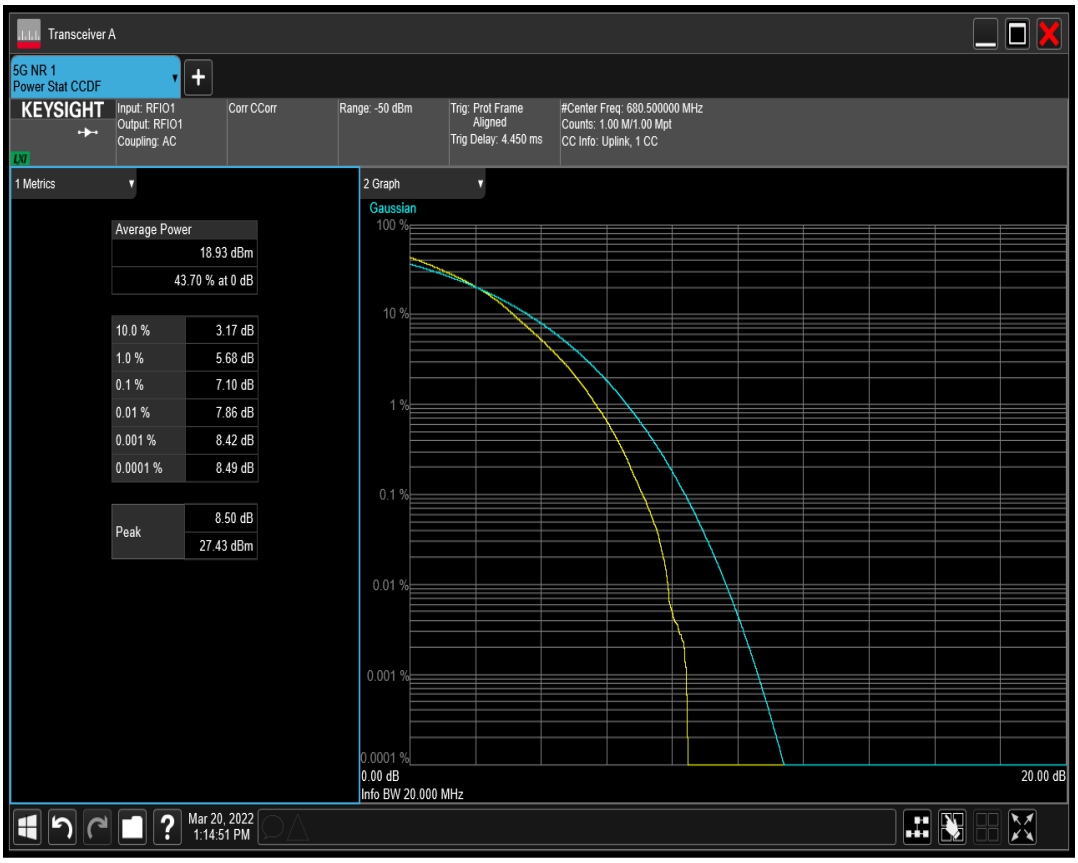

n71 SCS=30kHz DFT_QAM16 BW=20MHz Channel=136100 RB=50@0




n71 SCS=30kHz DFT_QAM64 BW=20MHz Channel=136100 RB=50@0




n71 SCS=30kHz DFT_QAM256 BW=20MHz Channel=136100 RB=50@0

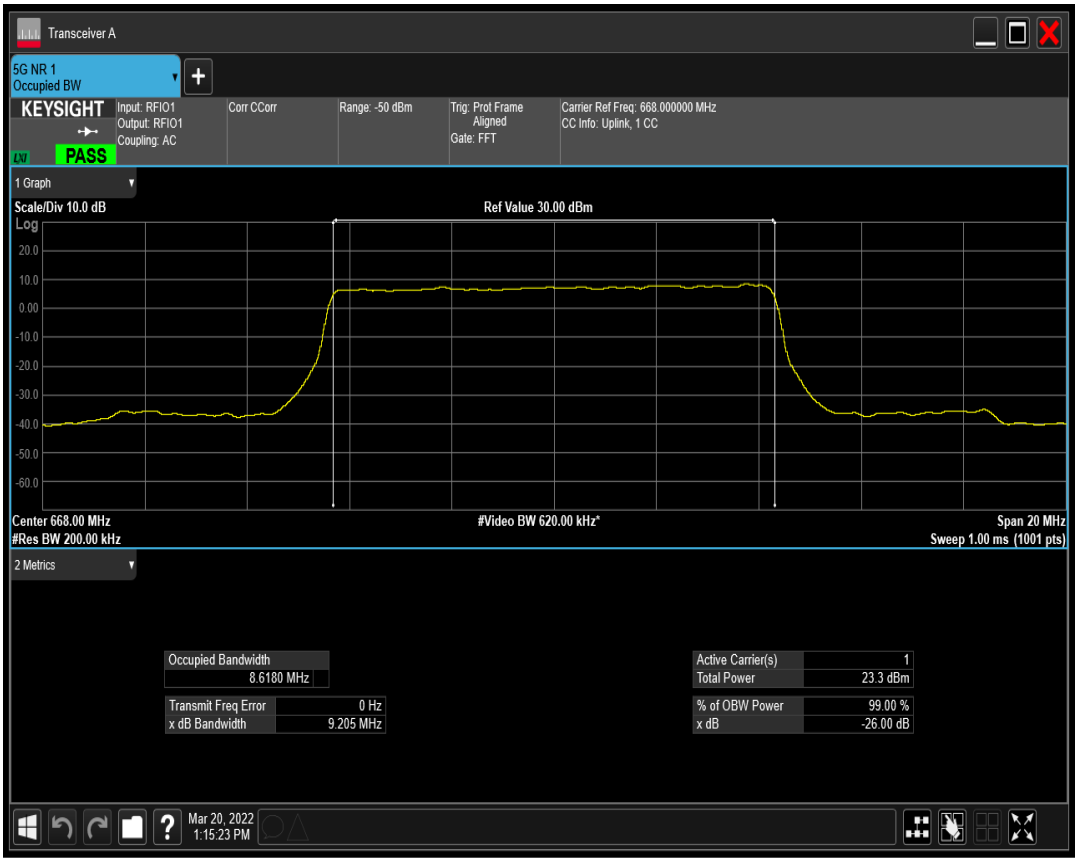


# 4. Occupied bandwidth for NR FR1

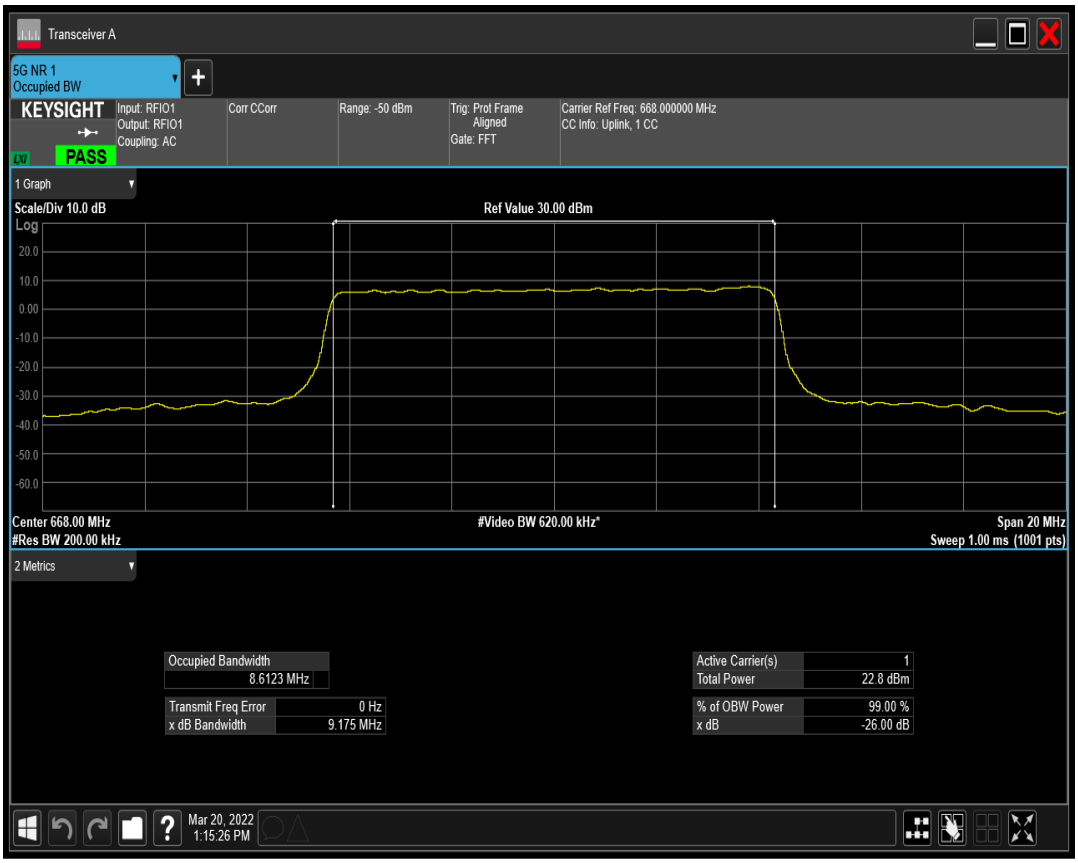
| Band | SCS (kHz) | Bandwidth (MHz) | UL Channel | RB Allocation | Modulation | 99% OBW (MHz) | -26dB EBW (MHz) | Verdict |
|---|---|---|---|---|---|---|---|---|
| n71 | 30 | 10 | 133600 | 24@0 | DFT_BPSK | 8.620 | 9.210 | PASS |
| n71 | 30 | 10 | 133600 | 24@0 | DFT_QPSK | 8.610 | 9.180 | PASS |
| n71 | 30 | 10 | 133600 | 24@0 | DFT_QAM16 | 8.620 | 9.230 | PASS |
| n71 | 30 | 10 | 133600 | 24@0 | DFT_QAM64 | 8.620 | 9.190 | PASS |
| n71 | 30 | 10 | 133600 | 24@0 | DFT_QAM256 | 8.610 | 9.220 | PASS |
| n71 | 30 | 10 | 133600 | 24@0 | CP_QPSK | 8.620 | 9.190 | PASS |
| n71 | 30 | 10 | 136100 | 24@0 | DFT_BPSK | 8.650 | 9.240 | PASS |
| n71 | 30 | 10 | 136100 | 24@0 | DFT_QPSK | 8.620 | 9.210 | PASS |
| n71 | 30 | 10 | 136100 | 24@0 | DFT_QAM16 | 8.620 | 9.240 | PASS |
| n71 | 30 | 10 | 136100 | 24@0 | DFT_QAM64 | 8.640 | 9.200 | PASS |
| n71 | 30 | 10 | 136100 | 24@0 | DFT_QAM256 | 8.610 | 9.220 | PASS |
| n71 | 30 | 10 | 136100 | 24@0 | CP_QPSK | 8.640 | 9.270 | PASS |
| n71 | 30 | 10 | 138600 | 24@0 | DFT_BPSK | 8.640 | 9.220 | PASS |
| n71 | 30 | 10 | 138600 | 24@0 | DFT_QPSK | 8.610 | 9.200 | PASS |
| n71 | 30 | 10 | 138600 | 24@0 | DFT_QAM16 | 8.620 | 9.230 | PASS |
| n71 | 30 | 10 | 138600 | 24@0 | DFT_QAM64 | 8.620 | 9.190 | PASS |
| n71 | 30 | 10 | 138600 | 24@0 | DFT_QAM256 | 8.610 | 9.200 | PASS |
| n71 | 30 | 10 | 138600 | 24@0 | CP_QPSK | 8.610 | 9.200 | PASS |
| n71 | 30 | 15 | 134100 | 36@0 | DFT_BPSK | 13.450 | 13.710 | PASS |
| n71 | 30 | 15 | 134100 | 36@0 | DFT_QPSK | 13.450 | 13.730 | PASS |
| n71 | 30 | 15 | 134100 | 36@0 | DFT_QAM16 | 13.460 | 13.690 | PASS |
| n71 | 30 | 15 | 134100 | 36@0 | DFT_QAM64 | 13.450 | 13.710 | PASS |
| n71 | 30 | 15 | 134100 | 36@0 | DFT_QAM256 | 13.390 | 13.710 | PASS |
| n71 | 30 | 15 | 134100 | 38@0 | CP_QPSK | 13.630 | 14.430 | PASS |
| n71 | 30 | 15 | 136100 | 36@0 | DFT_BPSK | 13.570 | 13.710 | PASS |
| n71 | 30 | 15 | 136100 | 36@0 | DFT_QPSK | 13.570 | 13.730 | PASS |
| n71 | 30 | 15 | 136100 | 36@0 | DFT_QAM16 | 13.520 | 13.700 | PASS |
| n71 | 30 | 15 | 136100 | 36@0 | DFT_QAM64 | 13.570 | 13.710 | PASS |
| n71 | 30 | 15 | 136100 | 36@0 | DFT_QAM256 | 13.510 | 13.750 | PASS |
| n71 | 30 | 15 | 136100 | 38@0 | CP_QPSK | 13.640 | 14.440 | PASS |
| n71 | 30 | 15 | 138100 | 36@0 | DFT_BPSK | 13.450 | 13.740 | PASS |
| n71 | 30 | 15 | 138100 | 36@0 | DFT_QPSK | 13.510 | 13.710 | PASS |
| n71 | 30 | 15 | 138100 | 36@0 | DFT_QAM16 | 13.520 | 13.730 | PASS |
| n71 | 30 | 15 | 138100 | 36@0 | DFT_QAM64 | 13.520 | 13.760 | PASS |
| n71 | 30 | 15 | 138100 | 36@0 | DFT_QAM256 | 13.460 | 13.720 | PASS |
| n71 | 30 | 15 | 138100 | 38@0 | CP_QPSK | 13.630 | 14.420 | PASS |
| n71 | 30 | 20 | 134600 | 50@0 | DFT_BPSK | 18.020 | 18.910 | PASS |
| n71 | 30 | 20 | 134600 | 50@0 | DFT_QPSK | 17.950 | 18.860 | PASS |
| n71 | 30 | 20 | 134600 | 50@0 | DFT_QAM16 | 18.010 | 18.870 | PASS |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| n71 | 30 | 20 | 134600 | 50@0 | DFT_QAM64 | 18.010 | 18.890 | PASS |
| n71 | 30 | 20 | 134600 | 50@0 | DFT_QAM256 | 18.010 | 18.920 | PASS |
| n71 | 30 | 20 | 134600 | 51@0 | CP_QPSK | 18.250 | 19.280 | PASS |
| n71 | 30 | 20 | 136100 | 50@0 | DFT_BPSK | 18.120 | 18.910 | PASS |
| n71 | 30 | 20 | 136100 | 50@0 | DFT_QPSK | 18.100 | 18.910 | PASS |
| n71 | 30 | 20 | 136100 | 50@0 | DFT_QAM16 | 18.120 | 18.920 | PASS |
| n71 | 30 | 20 | 136100 | 50@0 | DFT_QAM64 | 18.110 | 18.920 | PASS |
| n71 | 30 | 20 | 136100 | 50@0 | DFT_QAM256 | 18.110 | 18.940 | PASS |
| n71 | 30 | 20 | 136100 | 51@0 | CP_QPSK | 18.320 | 19.320 | PASS |
| n71 | 30 | 20 | 137600 | 50@0 | DFT_BPSK | 18.100 | 18.930 | PASS |
| n71 | 30 | 20 | 137600 | 50@0 | DFT_QPSK | 18.090 | 18.910 | PASS |
| n71 | 30 | 20 | 137600 | 50@0 | DFT_QAM16 | 18.090 | 18.900 | PASS |
| n71 | 30 | 20 | 137600 | 50@0 | DFT_QAM64 | 18.110 | 18.950 | PASS |
| n71 | 30 | 20 | 137600 | 50@0 | DFT_QAM256 | 18.090 | 18.950 | PASS |
| n71 | 30 | 20 | 137600 | 51@0 | CP_QPSK | 18.270 | 19.310 | PASS |

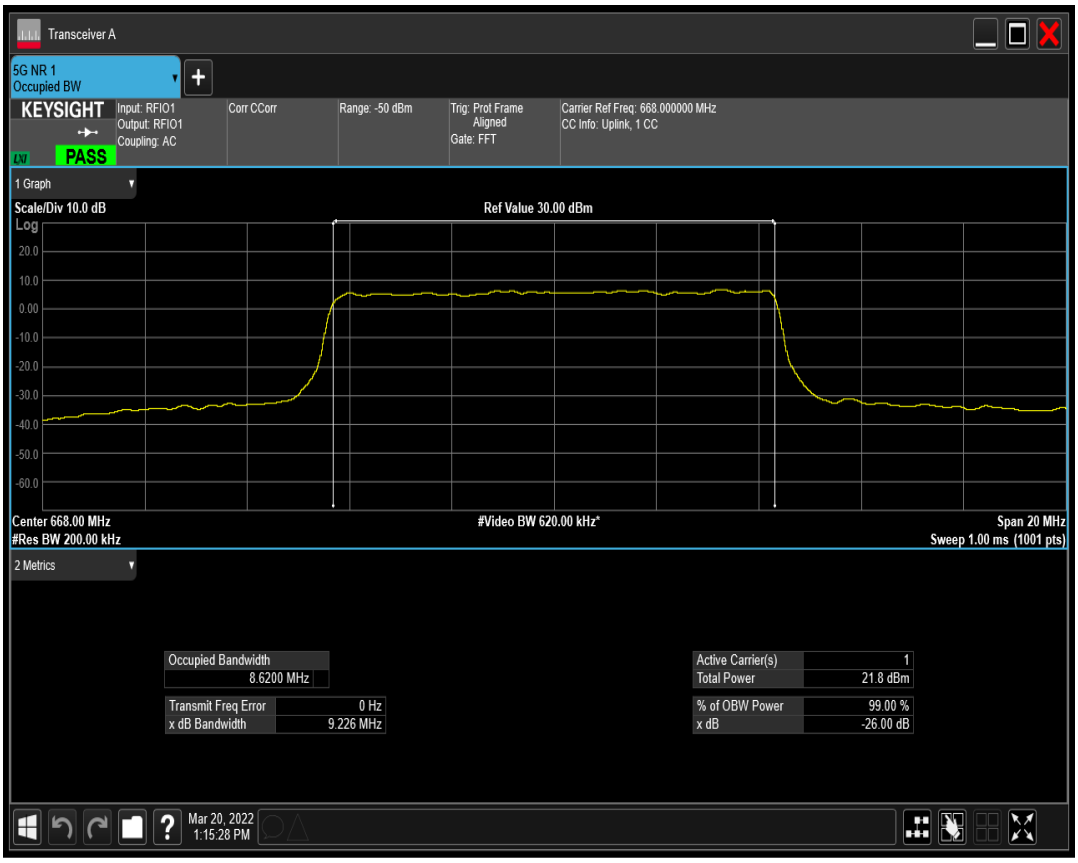
n71 SCS=30kHz DFT_BPSK BW=10MHz Channel=133600 RB=24@0



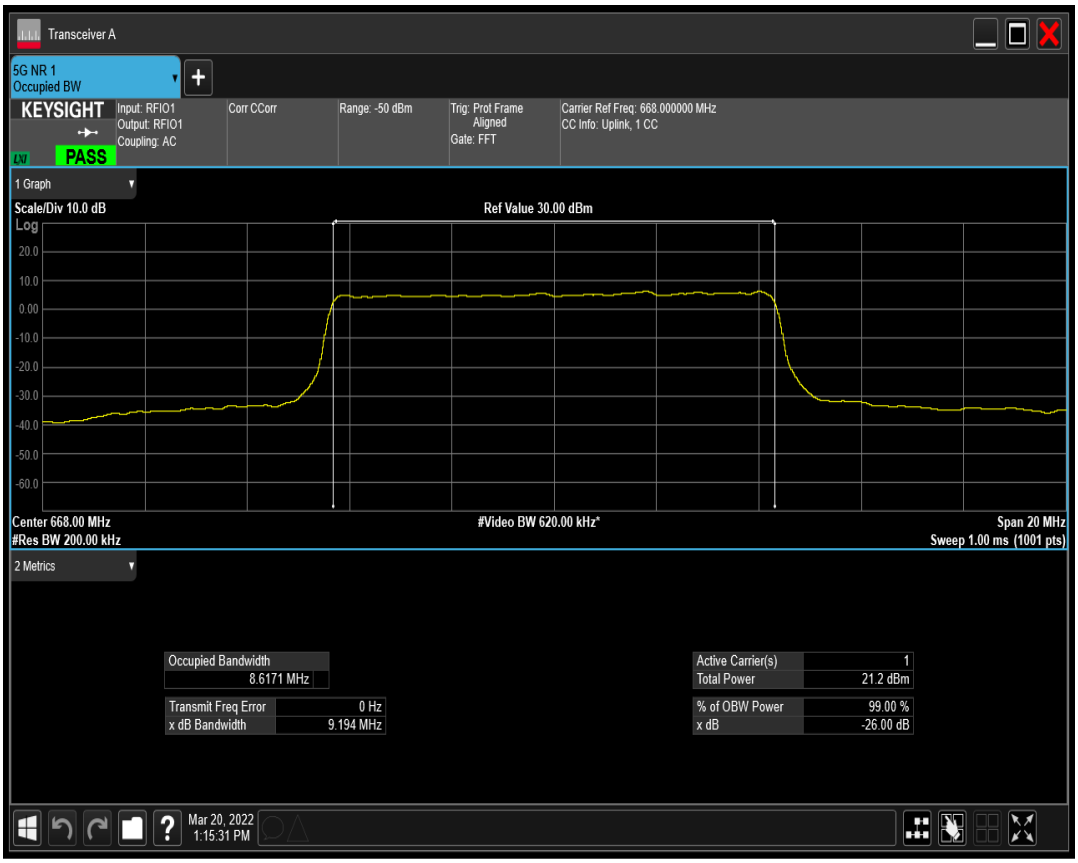

n71 SCS=30kHz DFT_QPSK BW=10MHz Channel=133600 RB=24@0



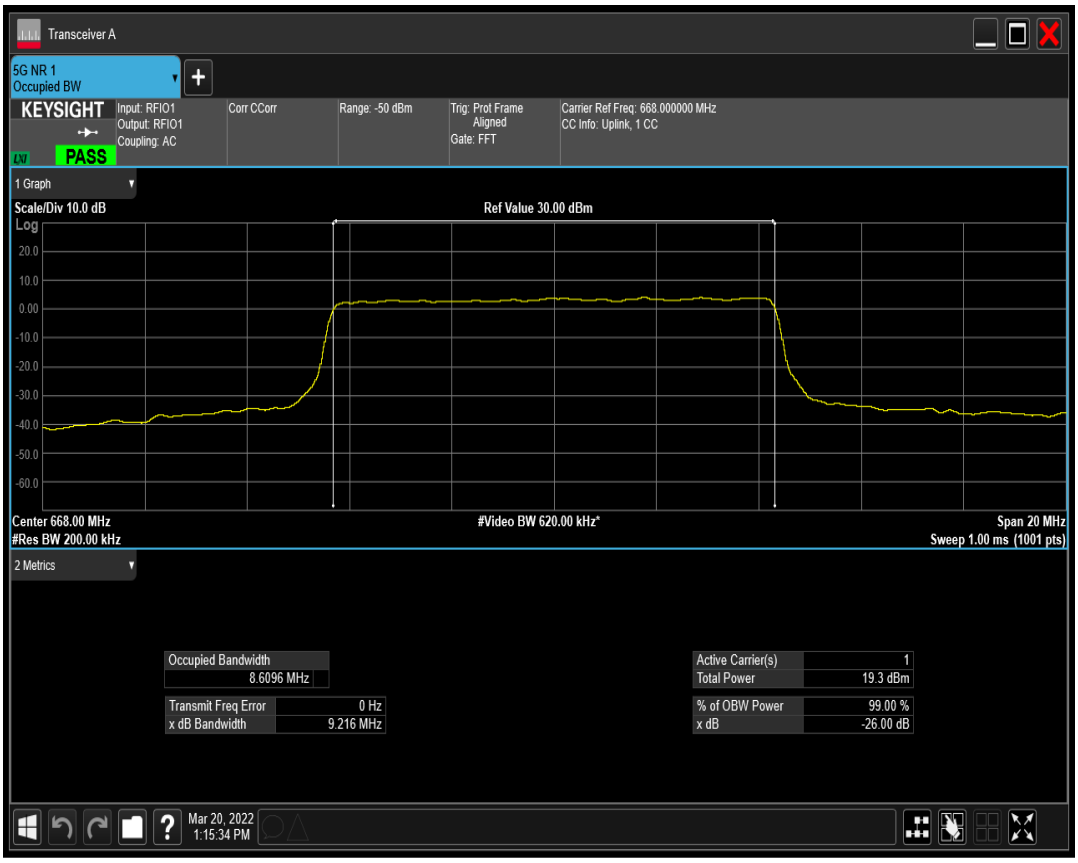

n71 SCS=30kHz DFT_QAM16 BW=10MHz Channel=133600 RB=24@0



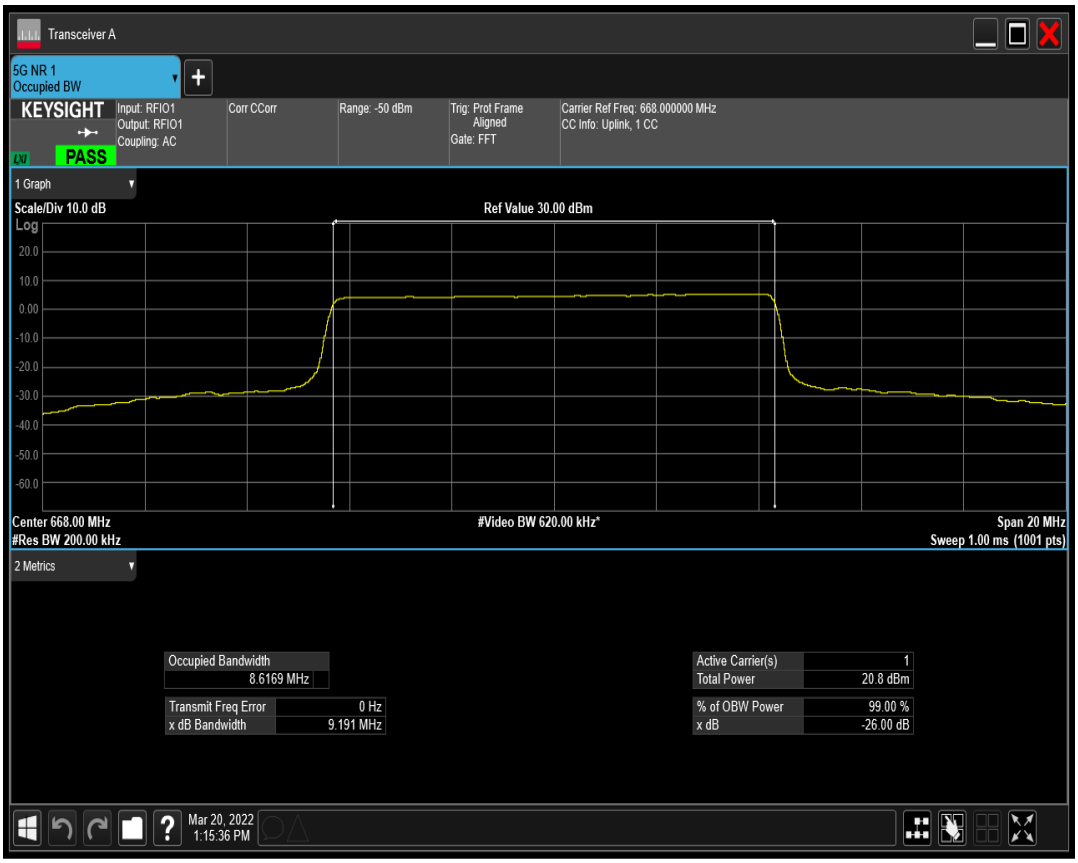

n71 SCS=30kHz DFT_QAM64 BW=10MHz Channel=133600 RB=24@0



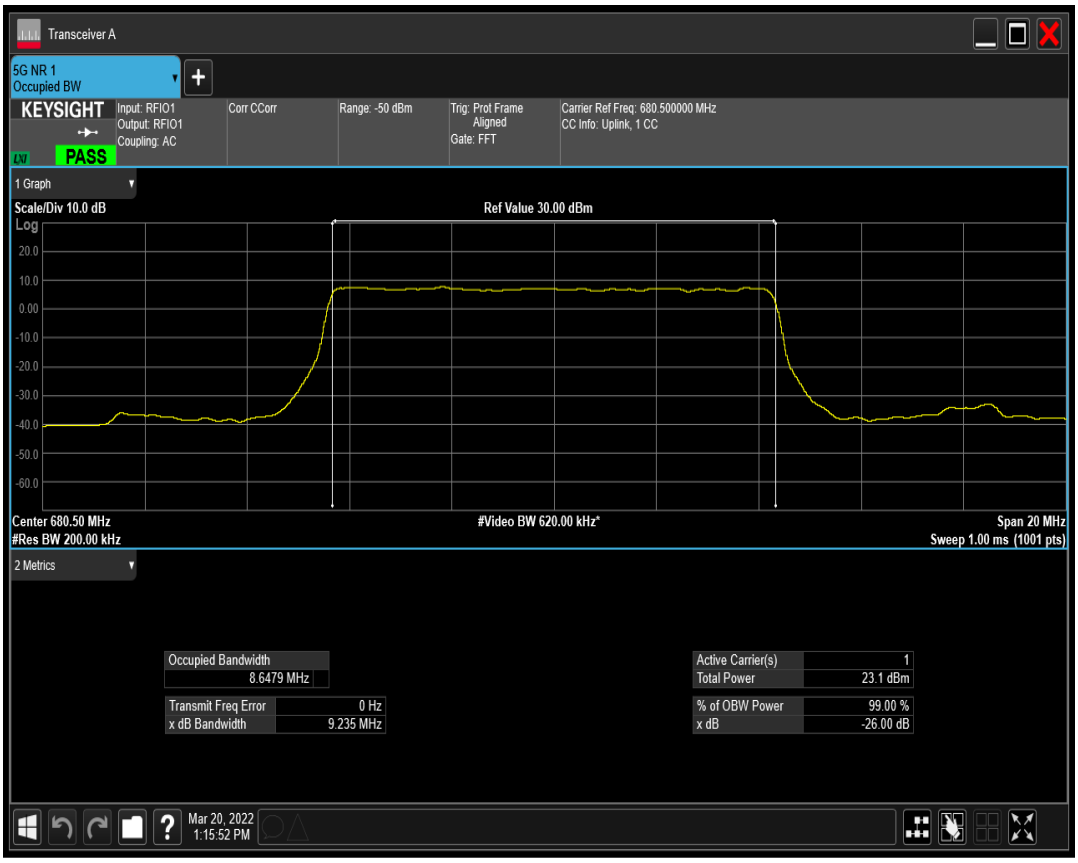

n71 SCS=30kHz DFT_QAM256 BW=10MHz Channel=133600 RB=24@0



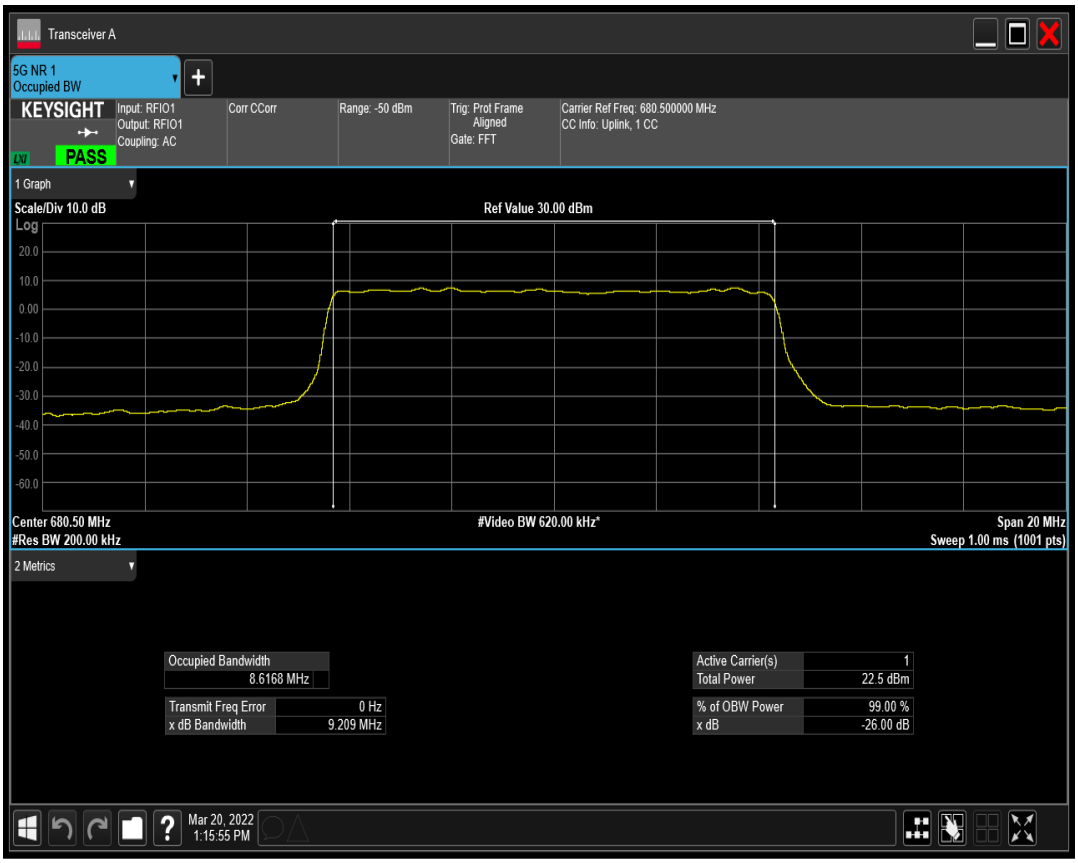

n71 SCS=30kHz CP_QPSK BW=10MHz Channel=133600 RB=24@0



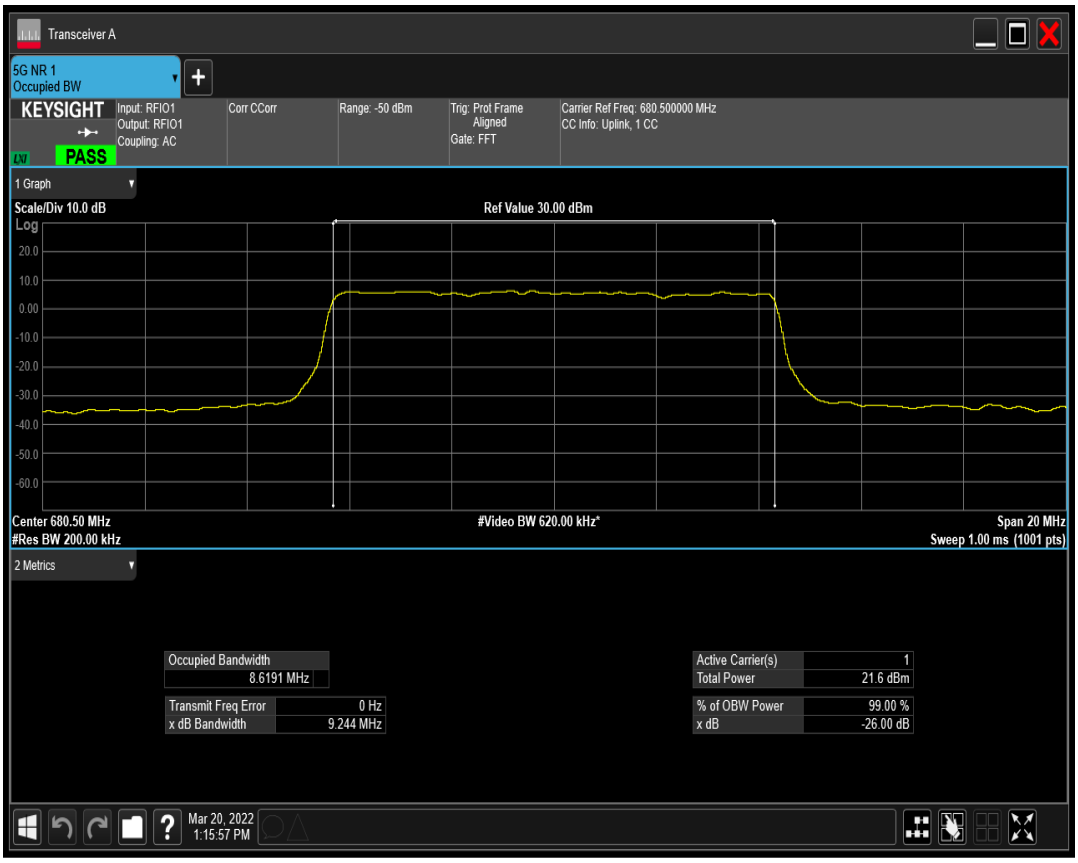

n71 SCS=30kHz DFT_BPSK BW=10MHz Channel=136100 RB=24@0



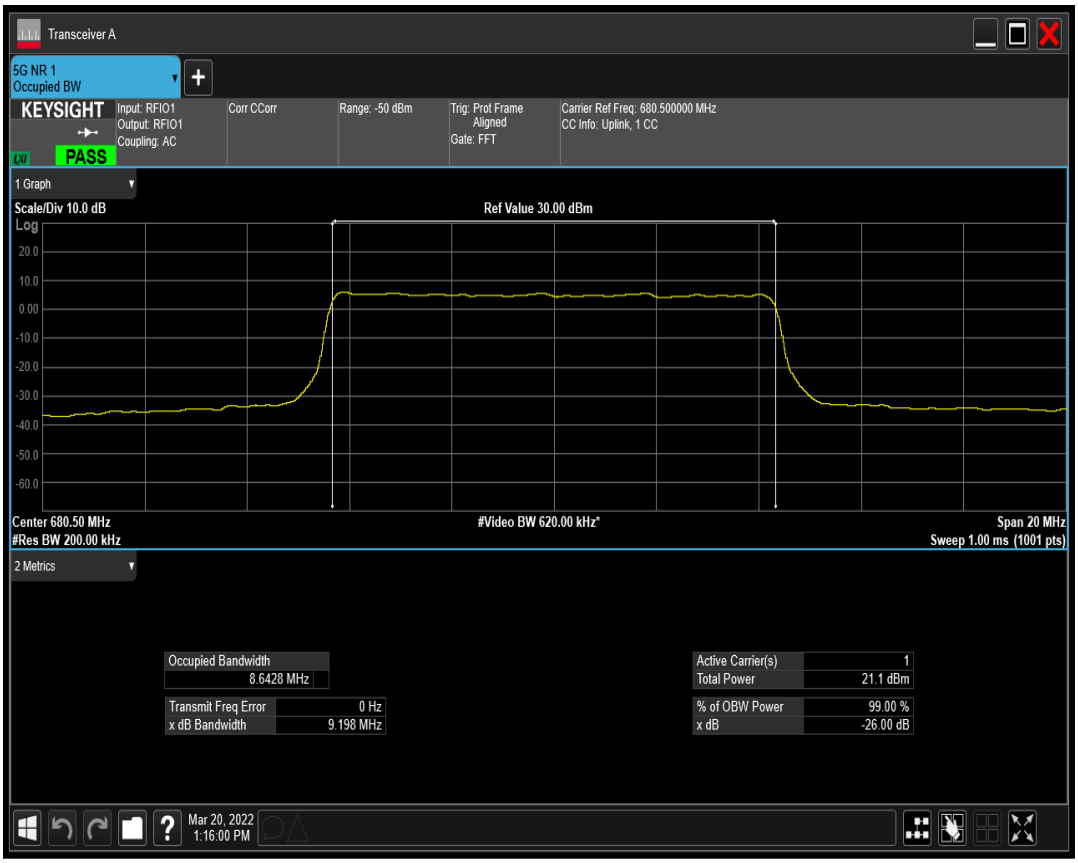

n71 SCS=30kHz DFT_QPSK BW=10MHz Channel=136100 RB=24@0



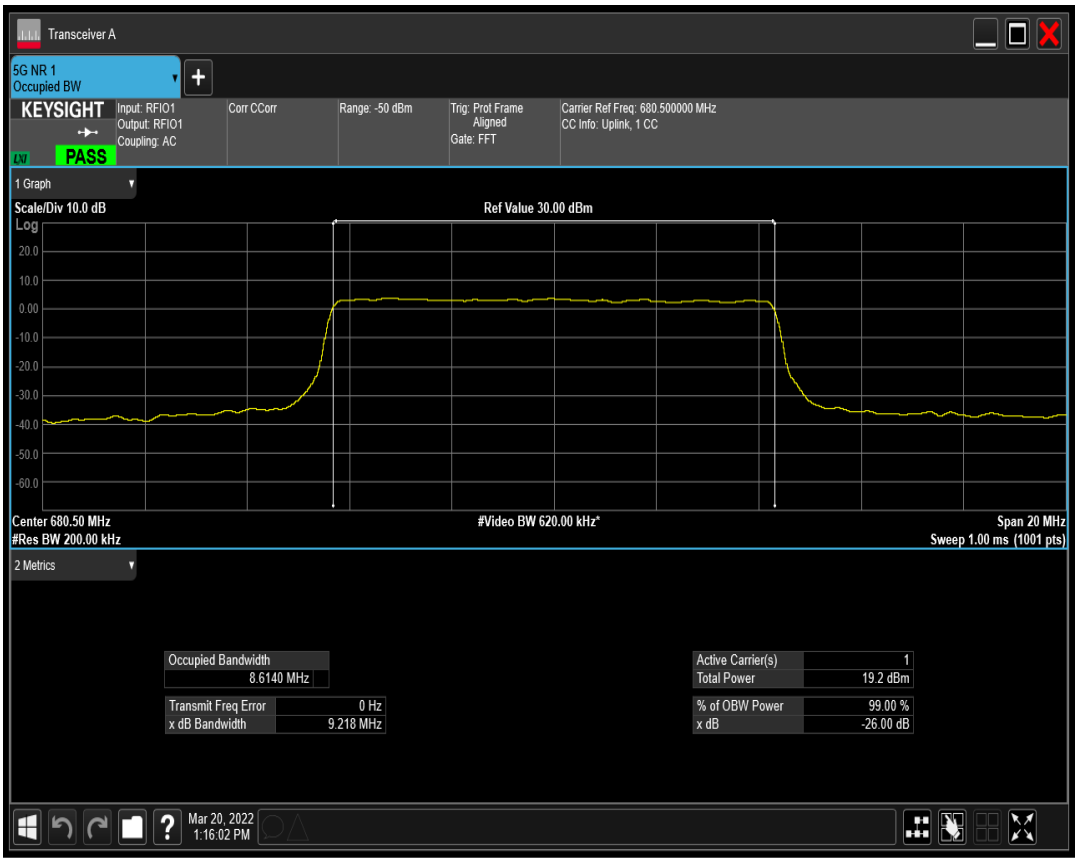

n71 SCS=30kHz DFT_QAM16 BW=10MHz Channel=136100 RB=24@0



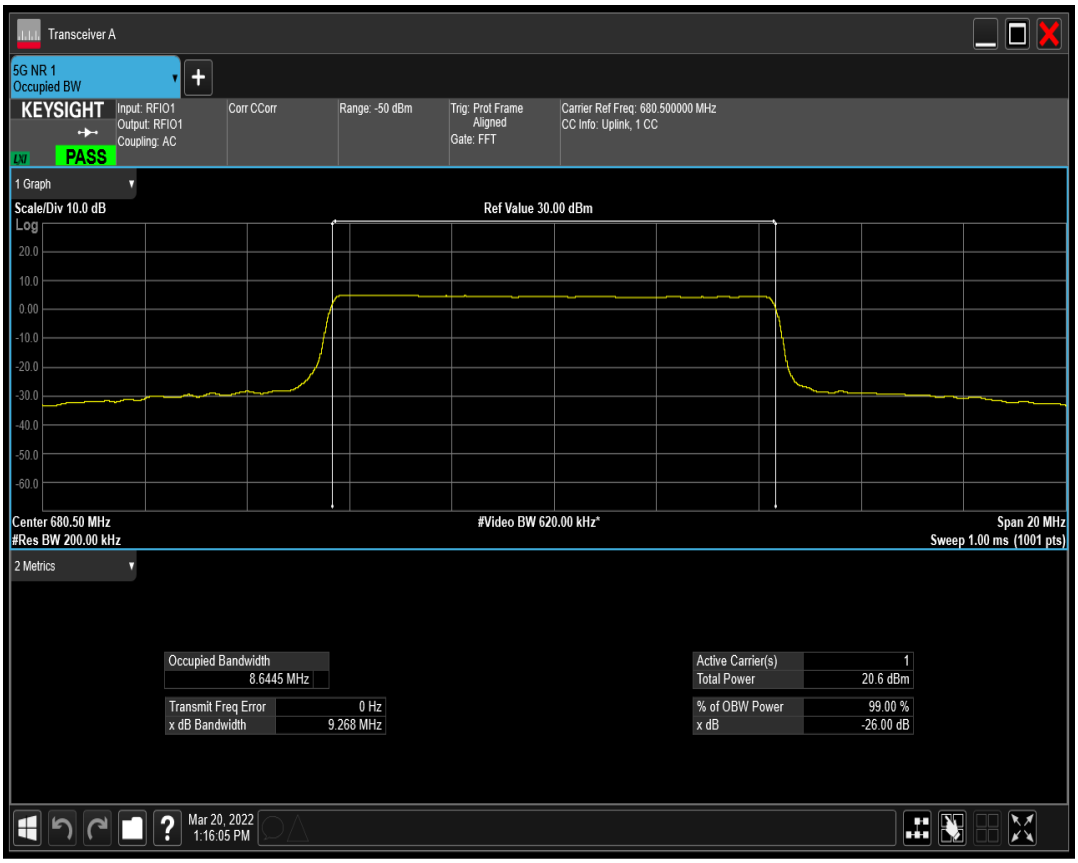

n71 SCS=30kHz DFT_QAM64 BW=10MHz Channel=136100 RB=24@0



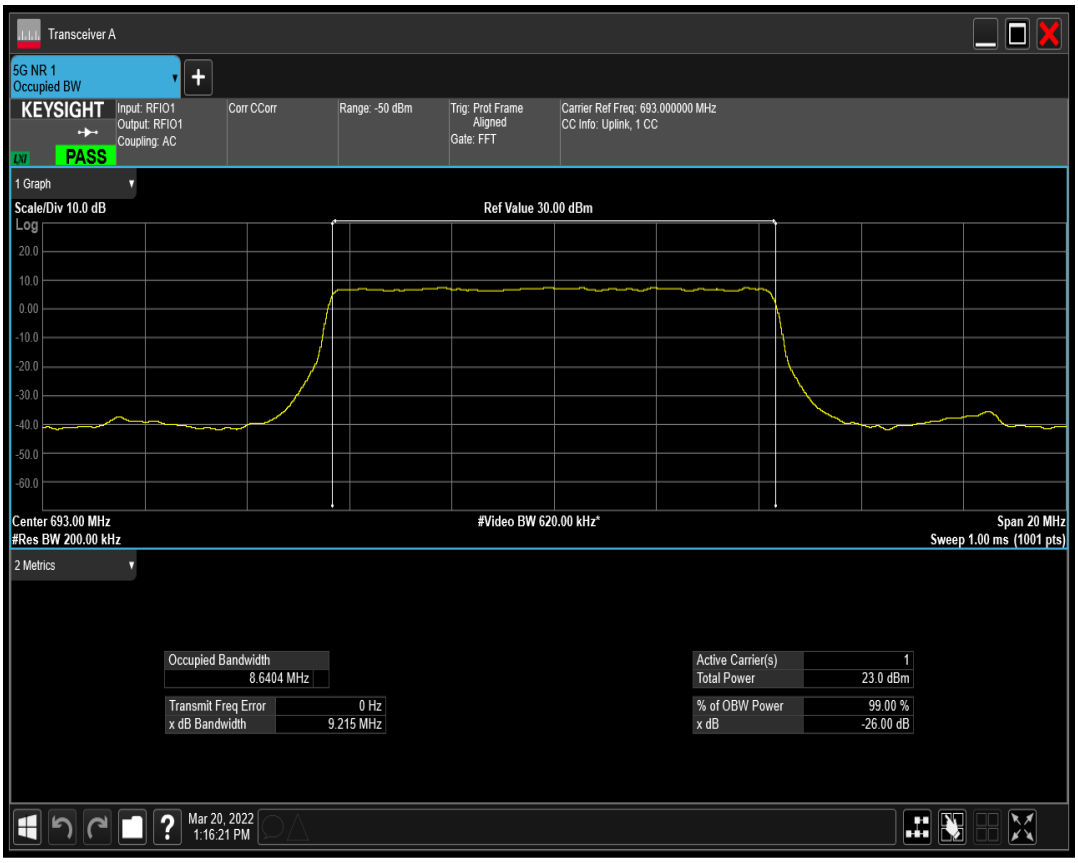

n71 SCS=30kHz DFT_QAM256 BW=10MHz Channel=136100 RB=24@0



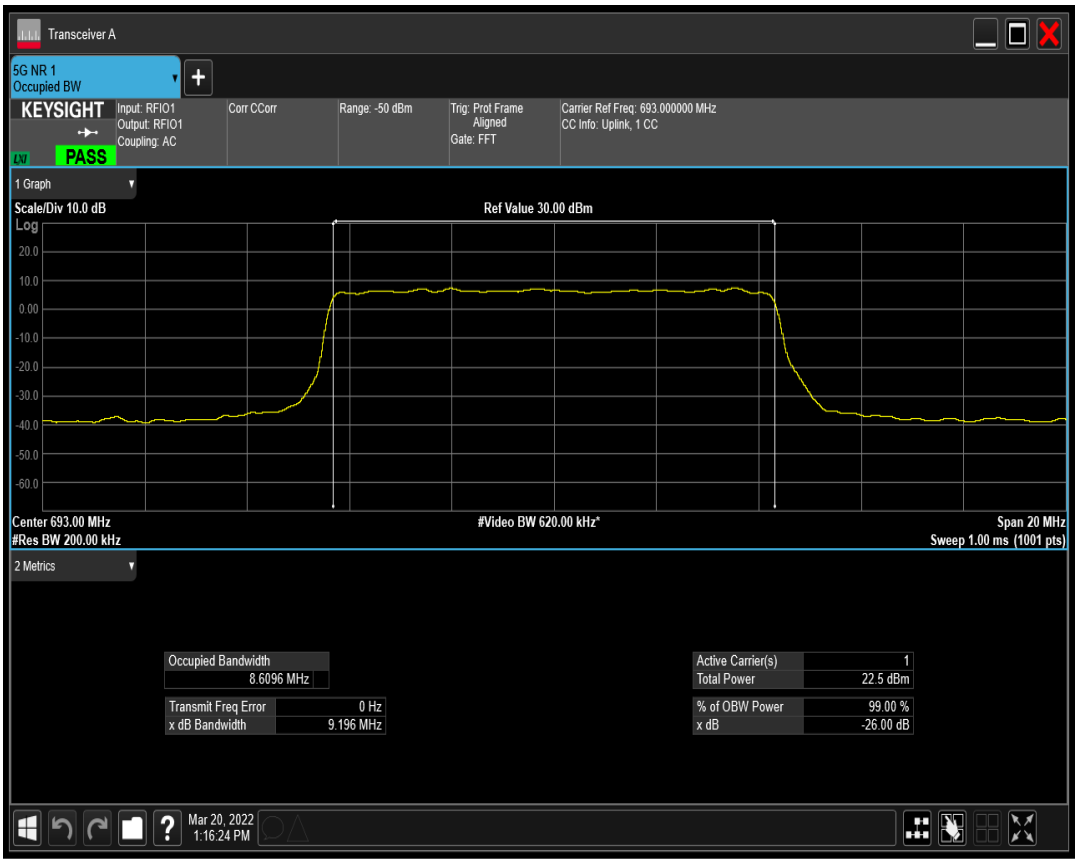

n71 SCS=30kHz CP_QPSK BW=10MHz Channel=136100 RB=24@0



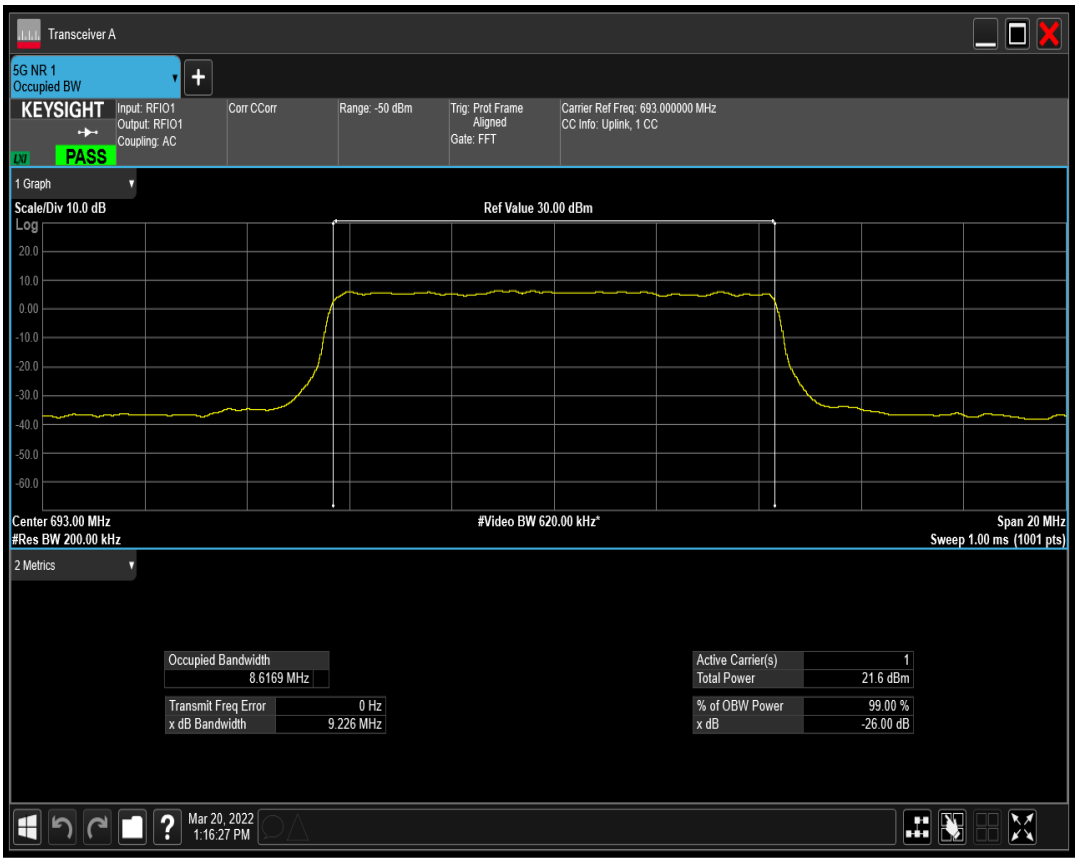

n71 SCS=30kHz DFT_BPSK BW=10MHz Channel=138600 RB=24@0



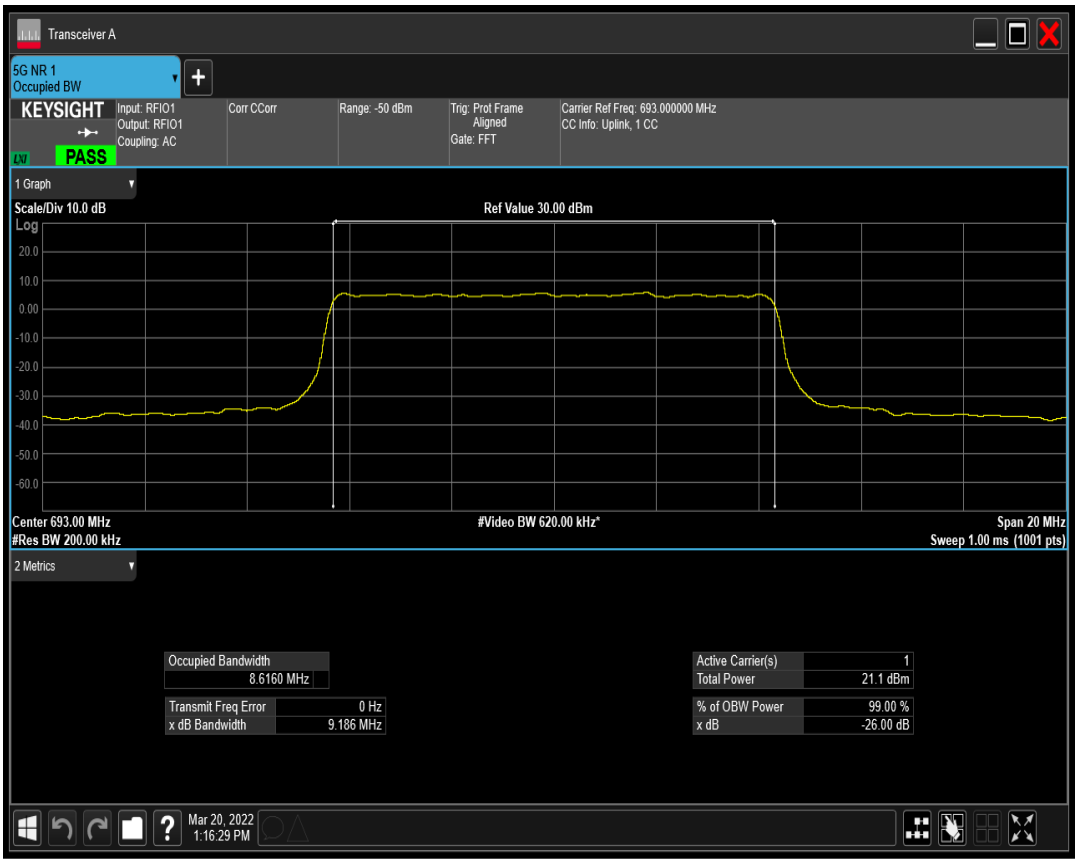

n71 SCS=30kHz DFT_QPSK BW=10MHz Channel=138600 RB=24@0



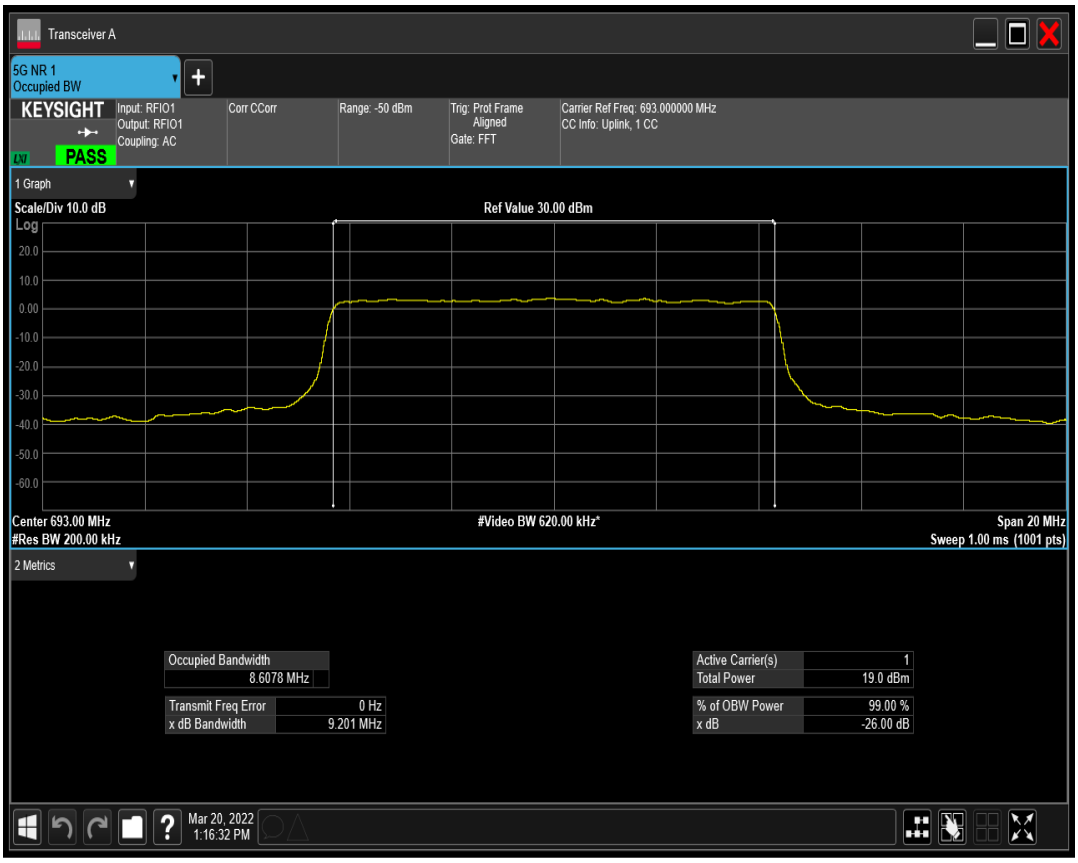

n71 SCS=30kHz DFT_QAM16 BW=10MHz Channel=138600 RB=24@0



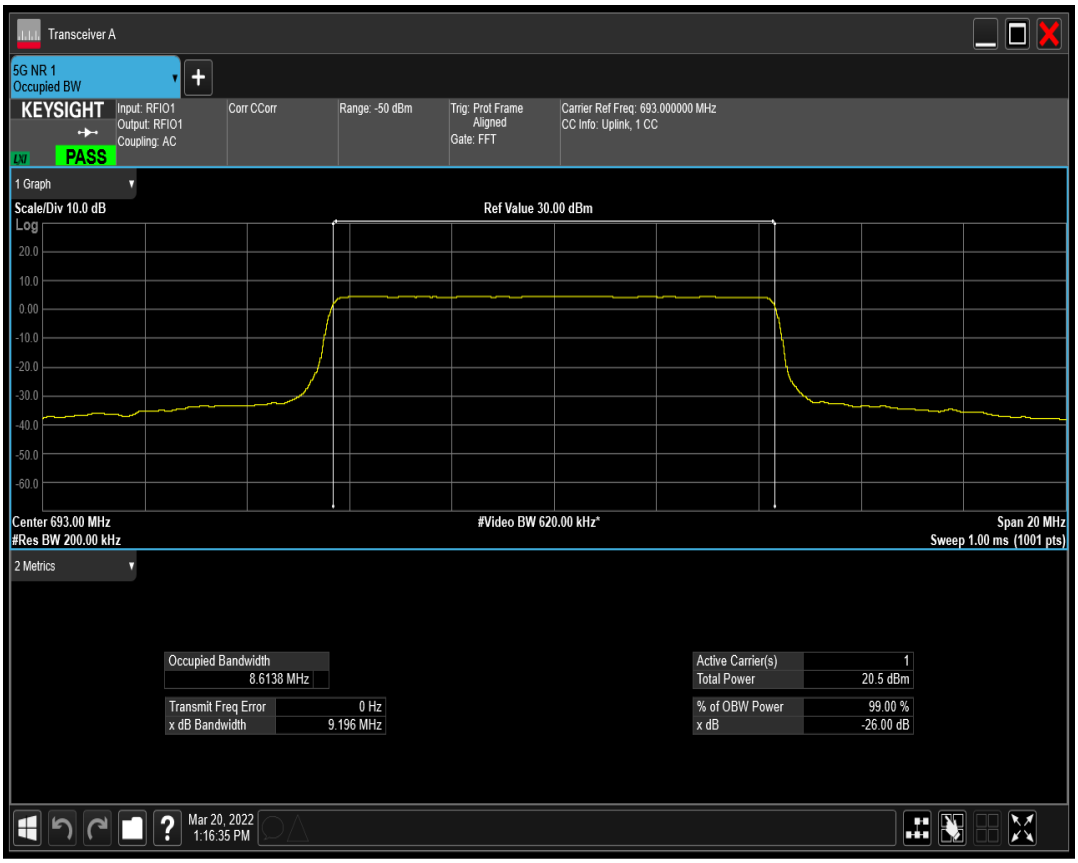

n71 SCS=30kHz DFT_QAM64 BW=10MHz Channel=138600 RB=24@0



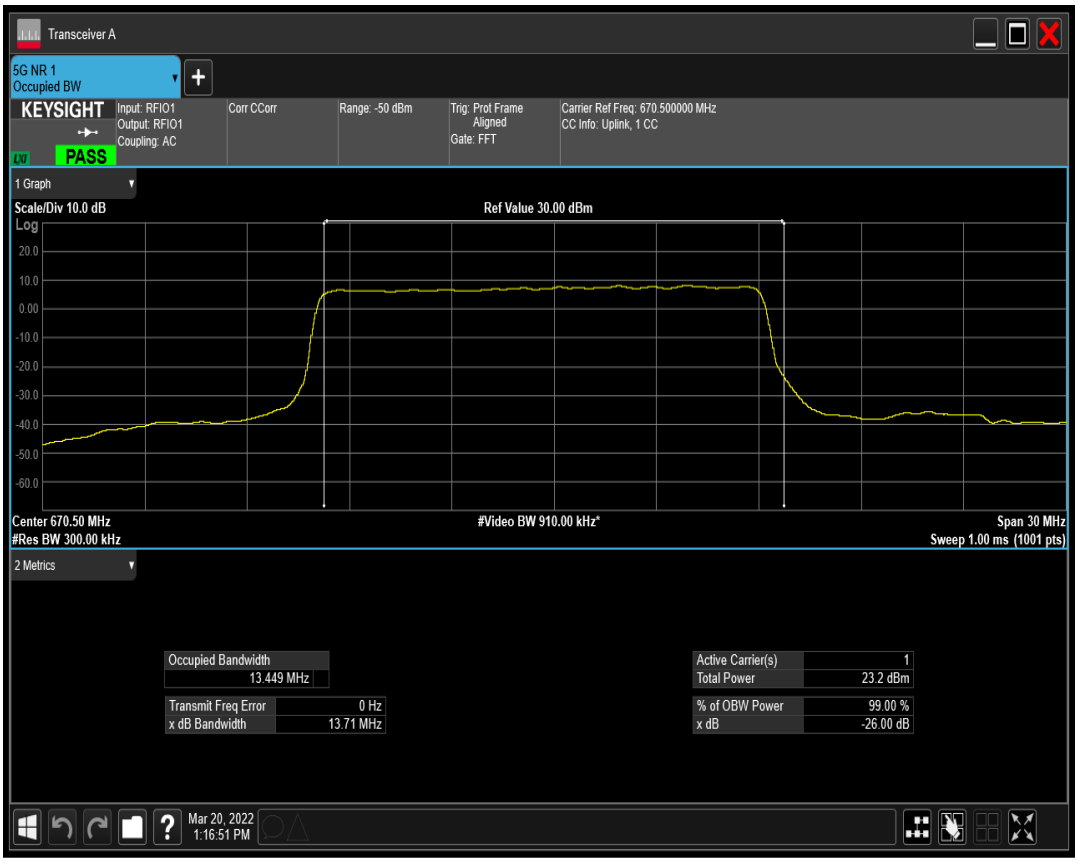

n71 SCS=30kHz DFT_QAM256 BW=10MHz Channel=138600 RB=24@0



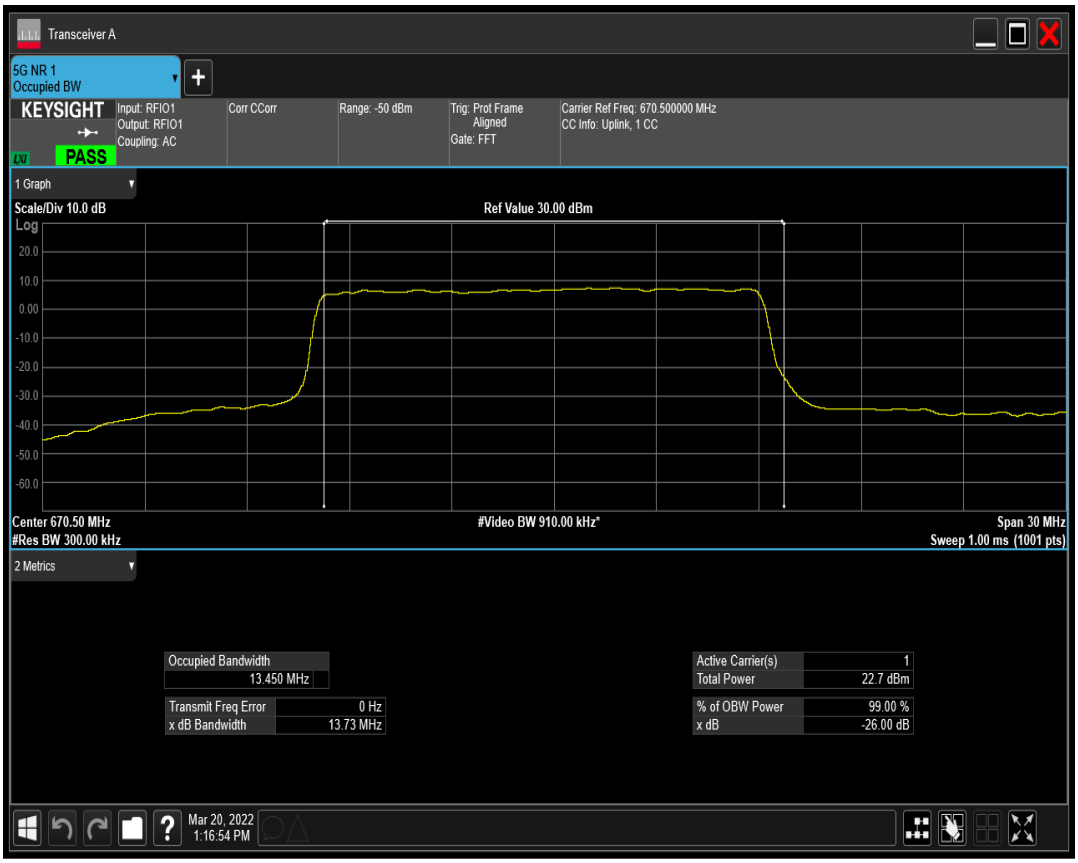

n71 SCS=30kHz CP_QPSK BW=10MHz Channel=138600 RB=24@0



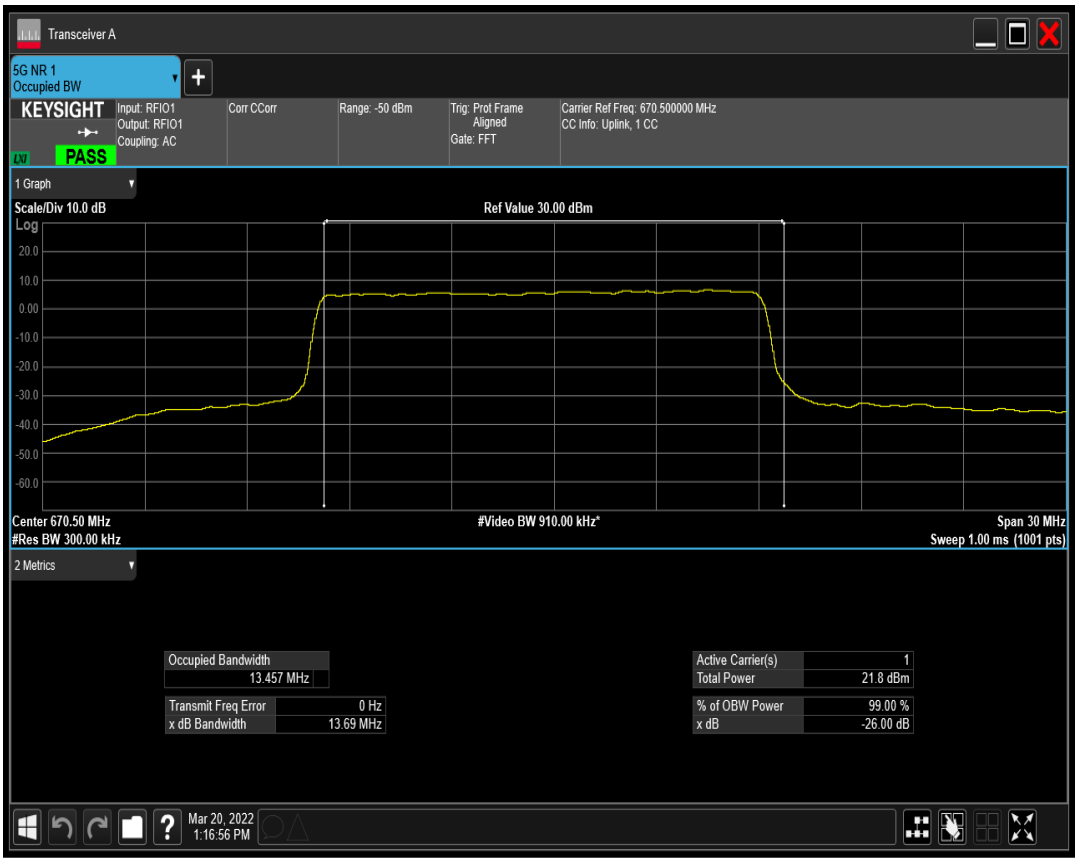

n71 SCS=30kHz DFT_BPSK BW=15MHz Channel=134100 RB=36@0



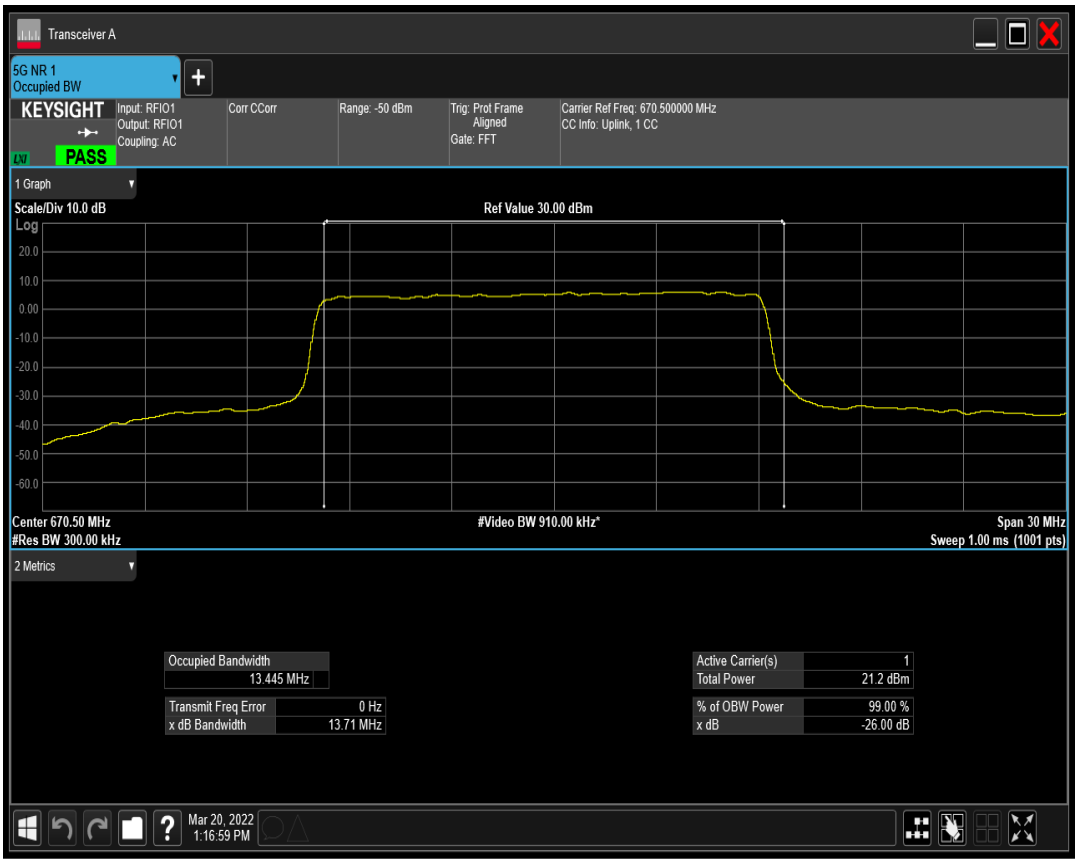

n71 SCS=30kHz DFT_QPSK BW=15MHz Channel=134100 RB=36@0



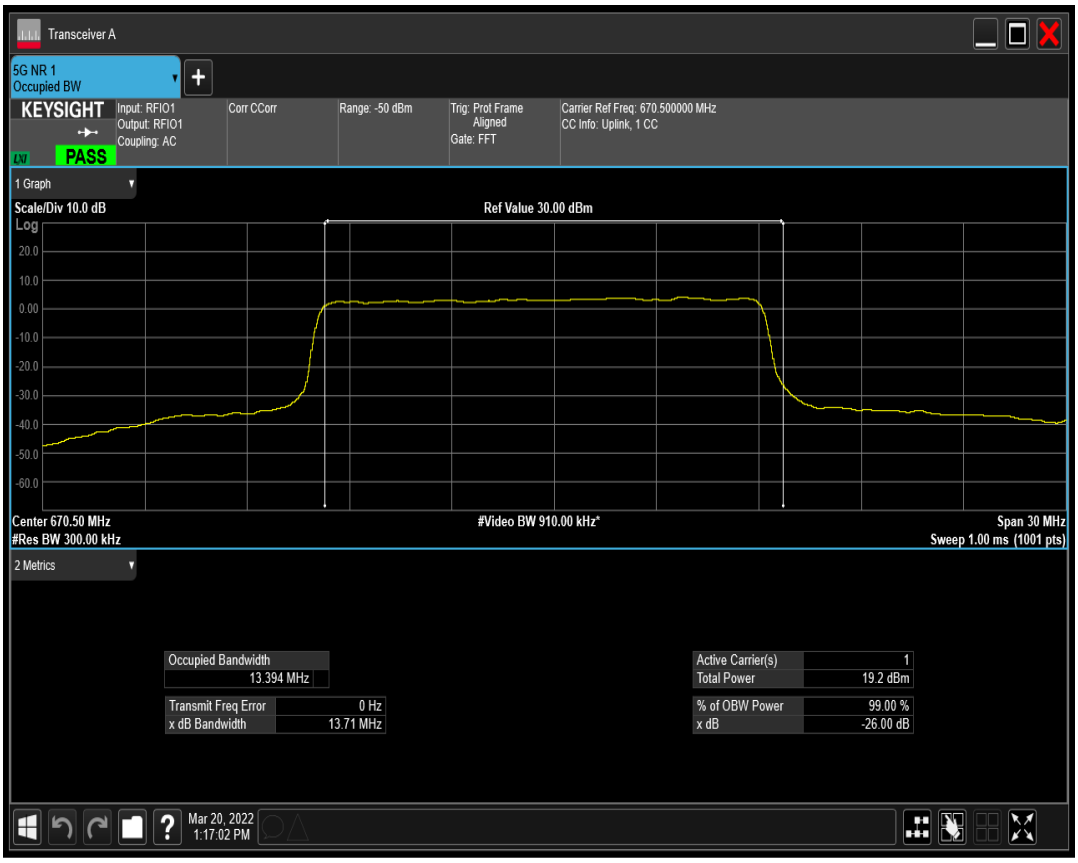

n71 SCS=30kHz DFT_QAM16 BW=15MHz Channel=134100 RB=36@0



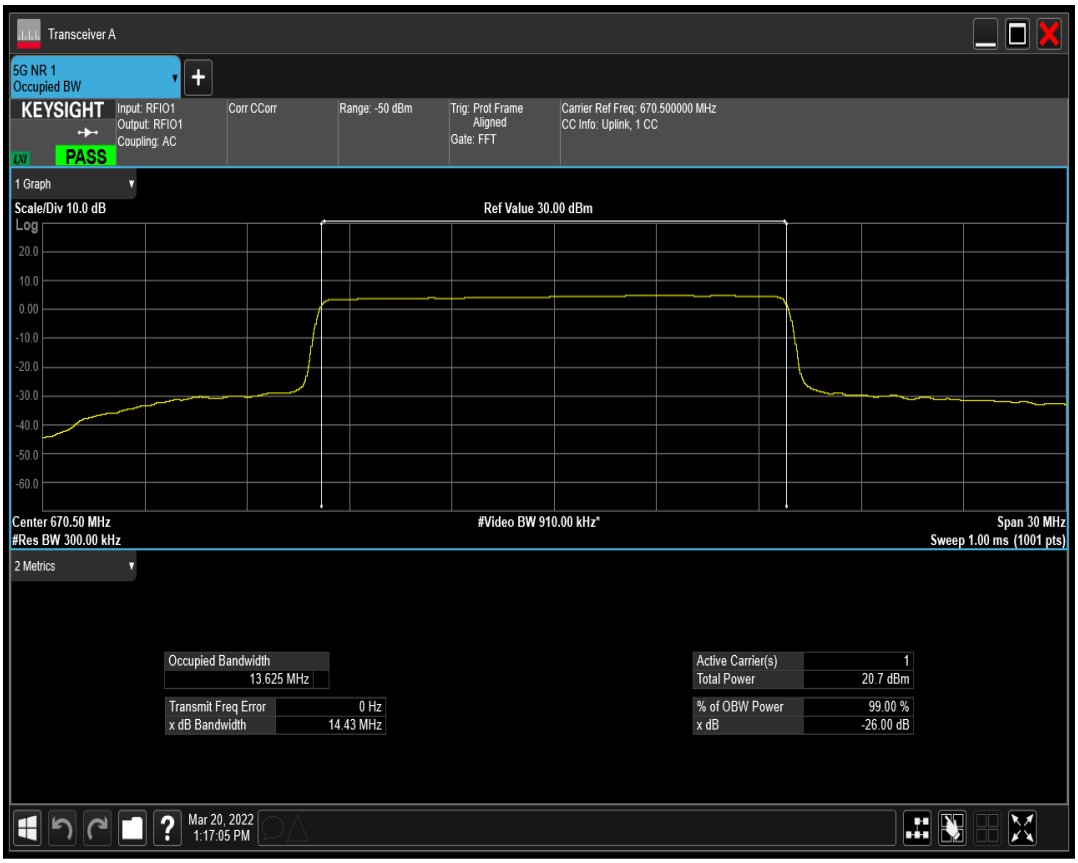

n71 SCS=30kHz DFT_QAM64 BW=15MHz Channel=134100 RB=36@0




n71 SCS=30kHz DFT_QAM256 BW=15MHz Channel=134100 RB=36@0

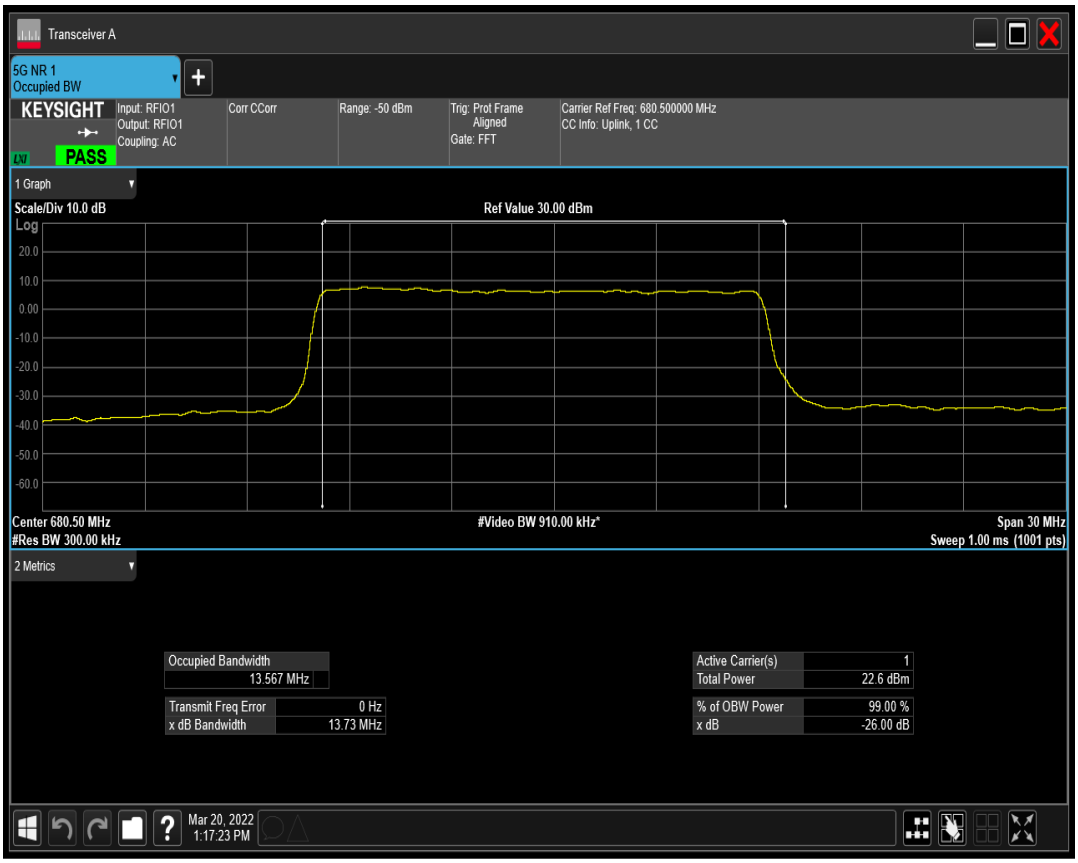



n71 SCS=30kHz CP_QPSK BW=15MHz Channel=134100 RB=38@0

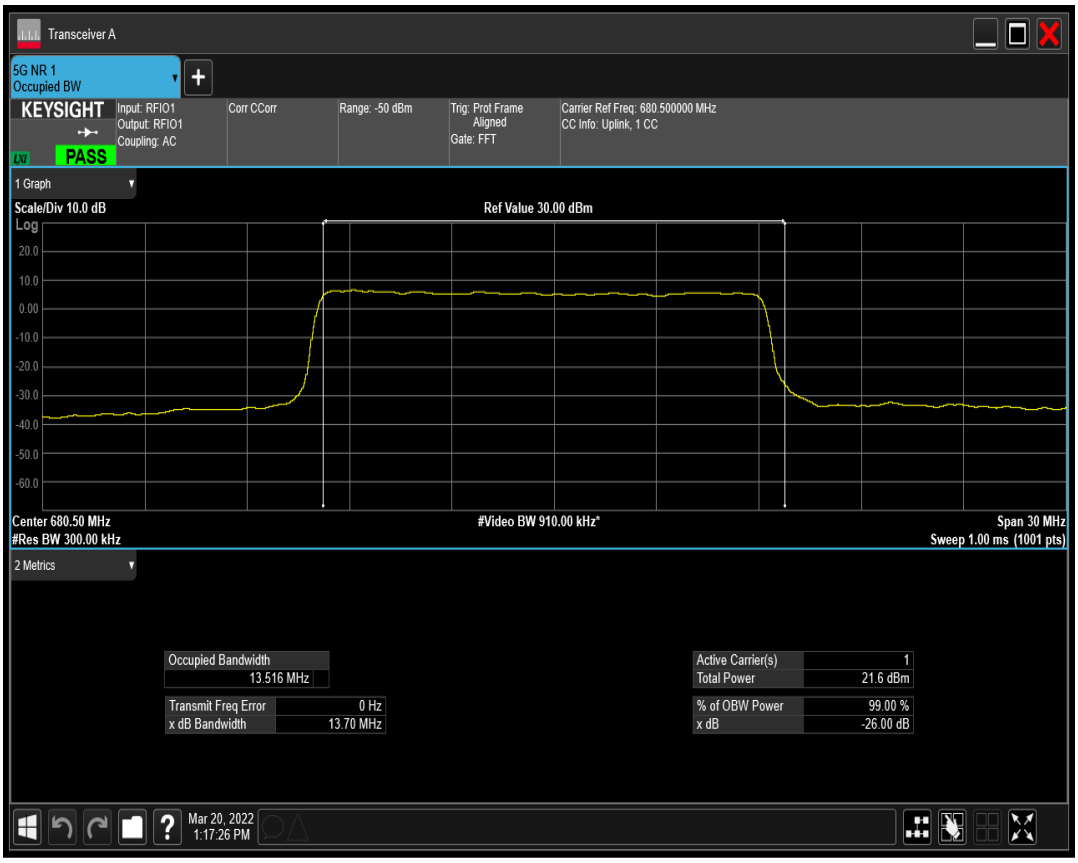



n71 SCS=30kHz DFT_BPSK BW=15MHz Channel=136100 RB=36@0

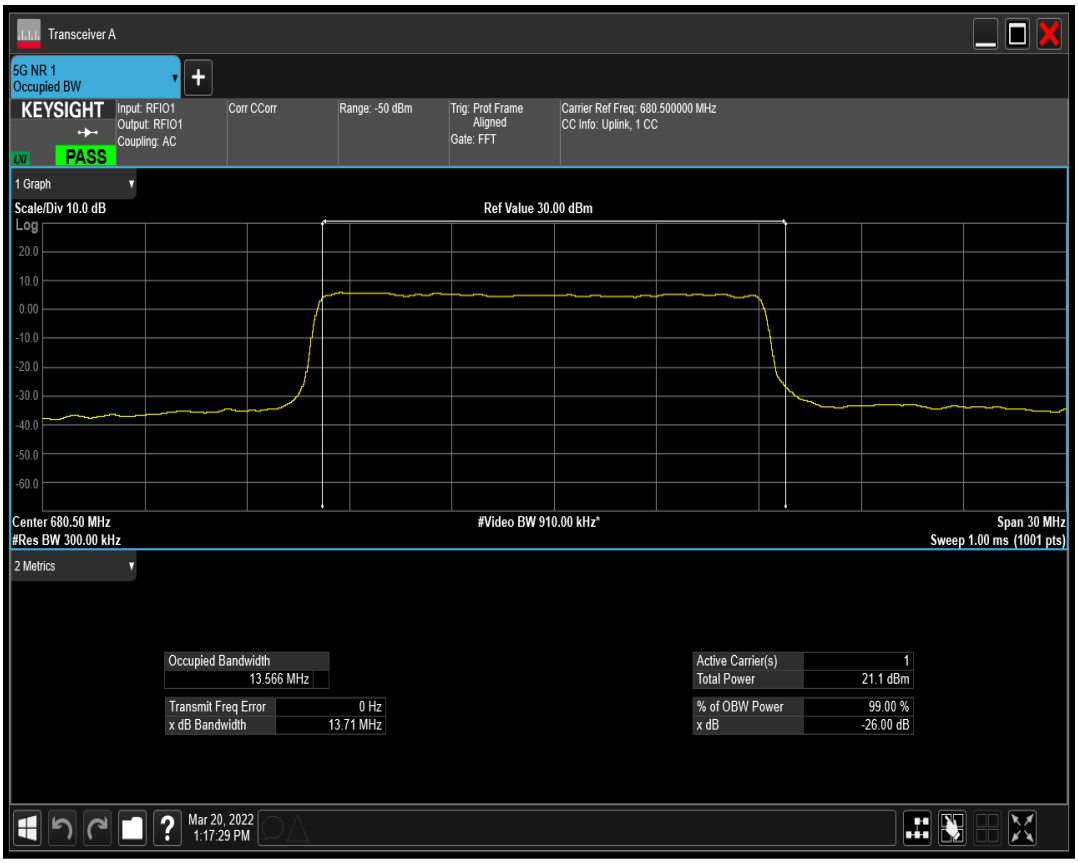
n71 SCS=30kHz DFT_QPSK BW=15MHz Channel=136100 RB=36@0



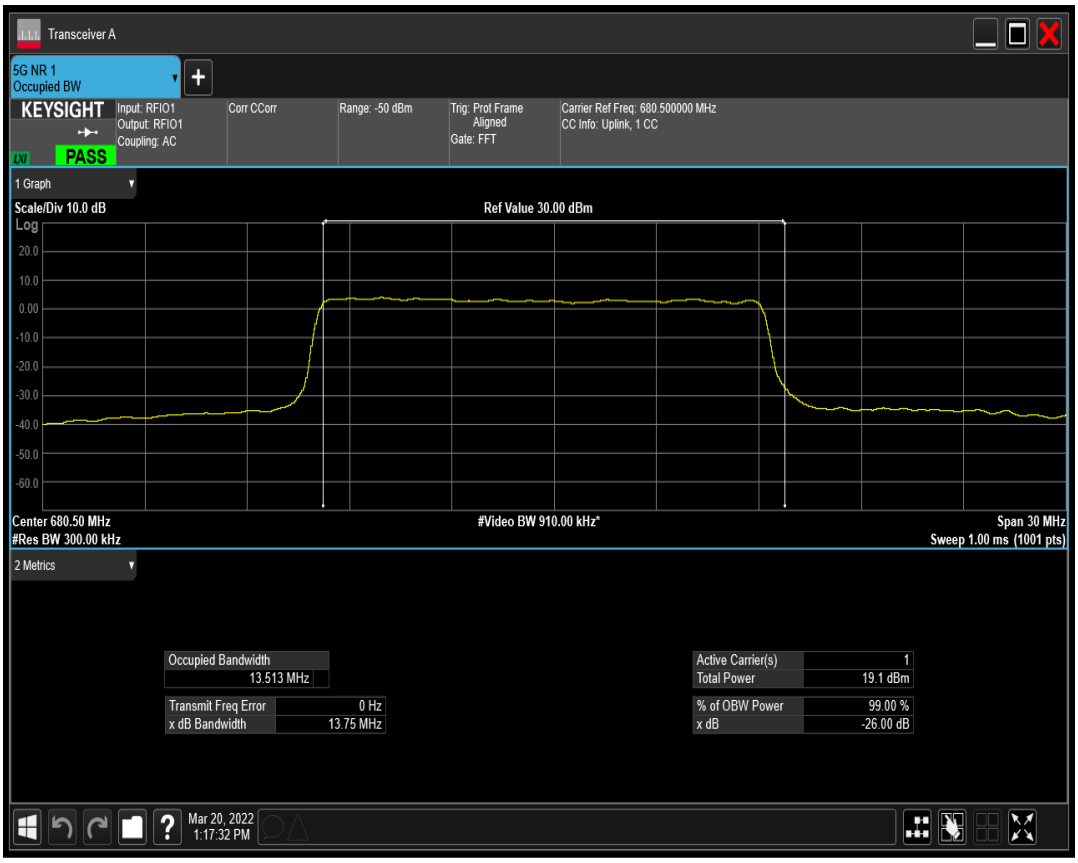

n71 SCS=30kHz DFT_QAM16 BW=15MHz Channel=136100 RB=36@0



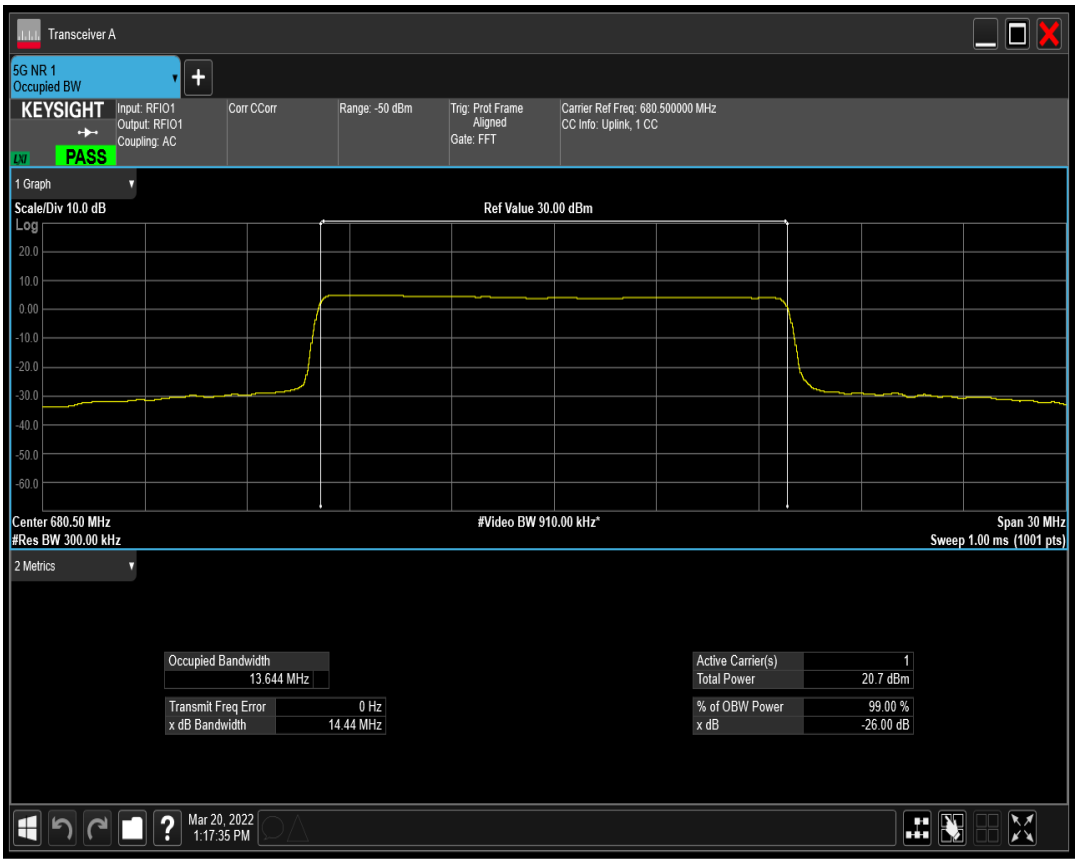

n71 SCS=30kHz DFT_QAM64 BW=15MHz Channel=136100 RB=36@0



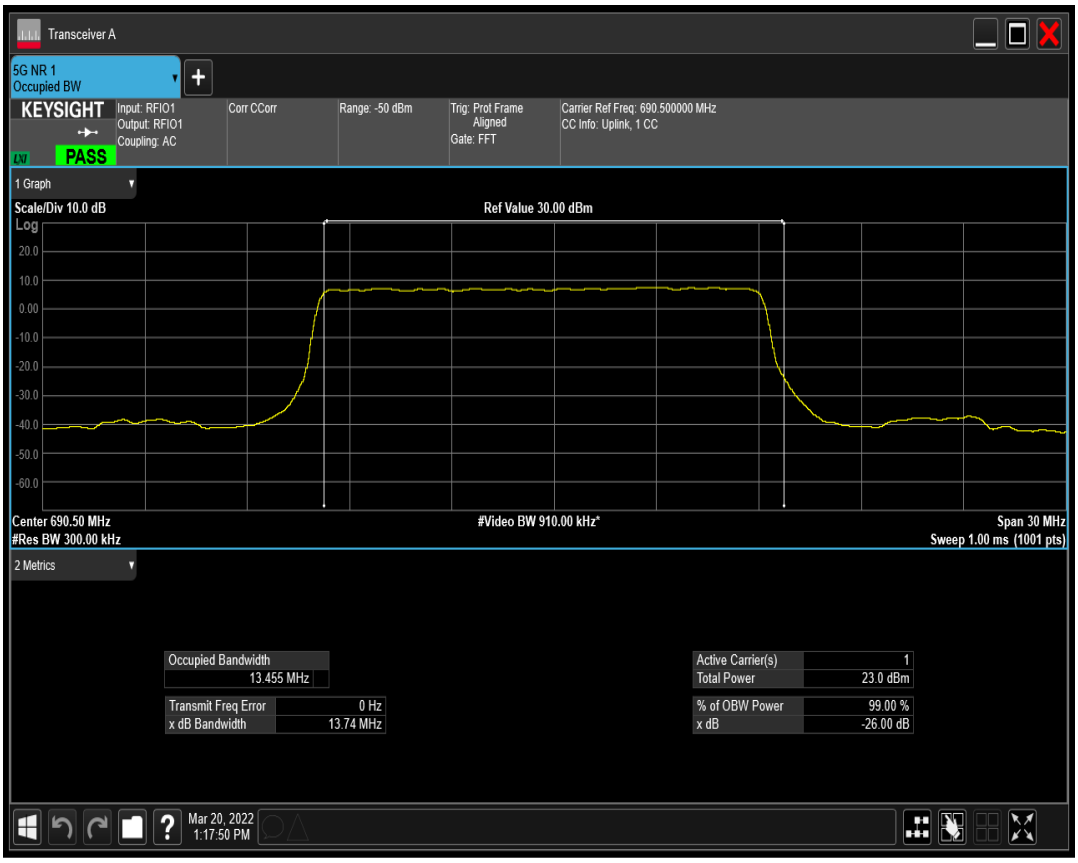

n71 SCS=30kHz DFT_QAM256 BW=15MHz Channel=136100 RB=36@0



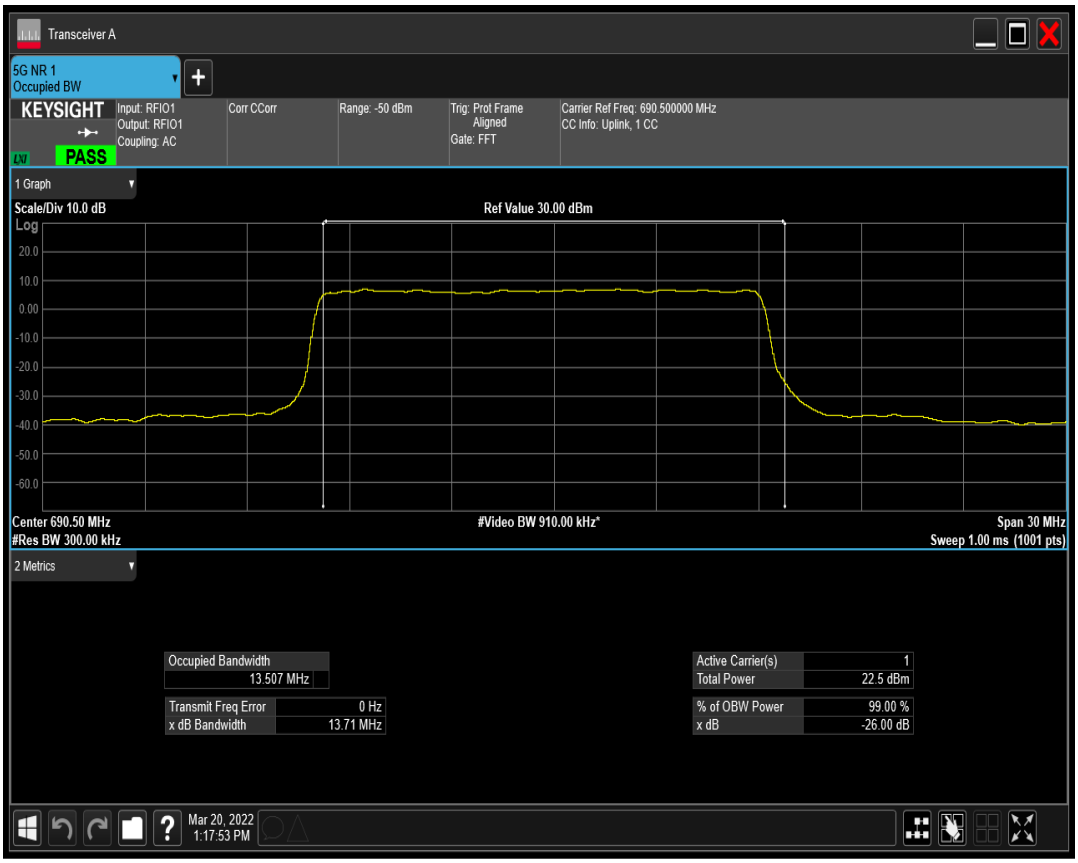

n71 SCS=30kHz CP_QPSK BW=15MHz Channel=136100 RB=38@0



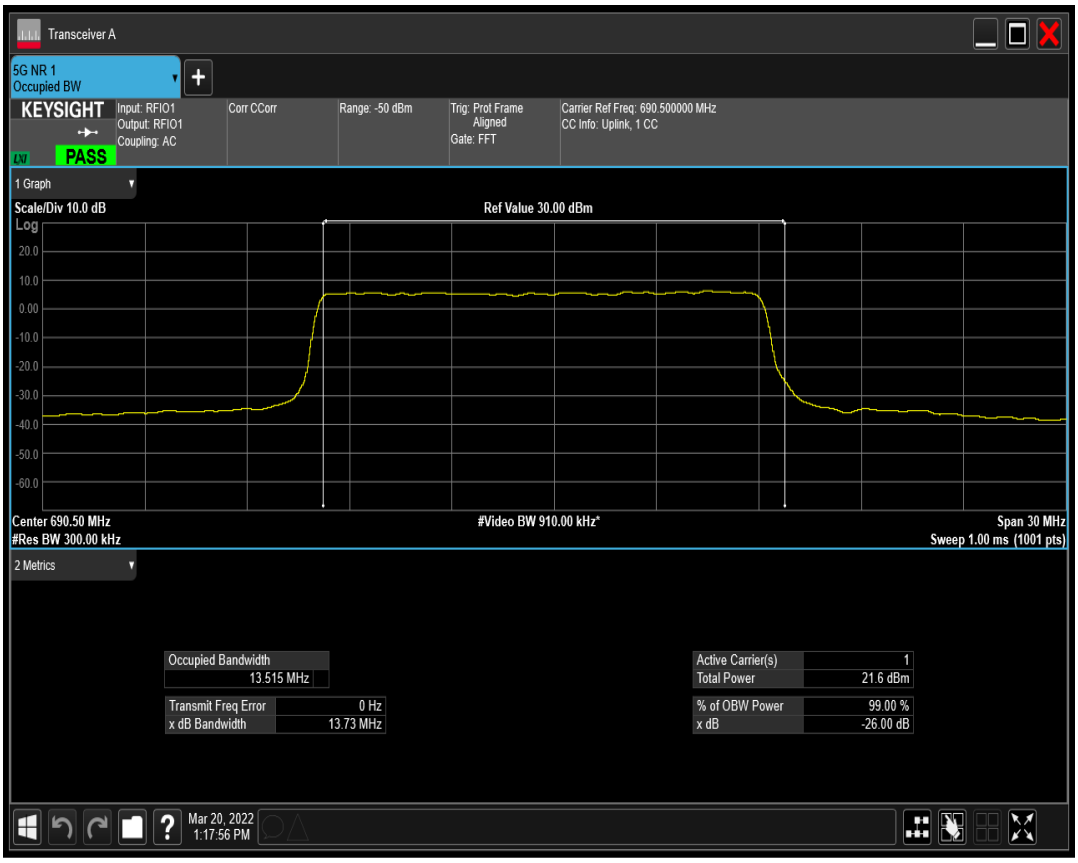

n71 SCS=30kHz DFT_BPSK BW=15MHz Channel=138100 RB=36@0



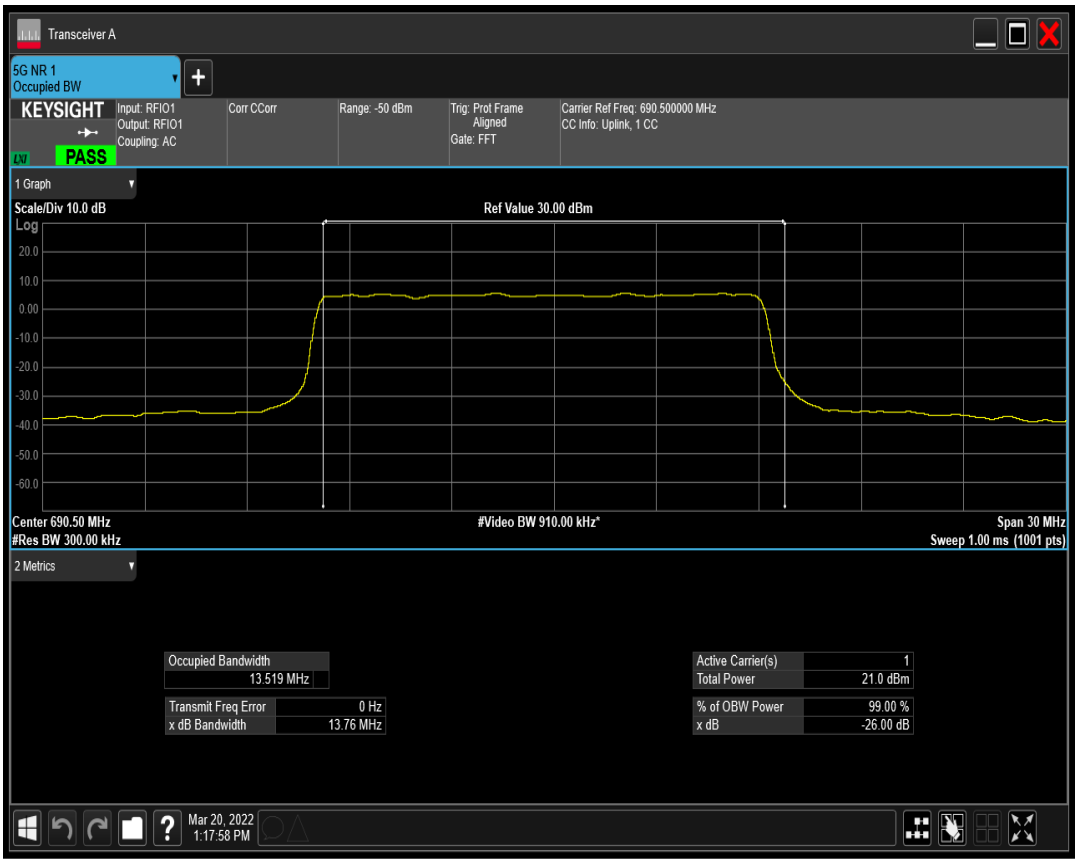

n71 SCS=30kHz DFT_QPSK BW=15MHz Channel=138100 RB=36@0



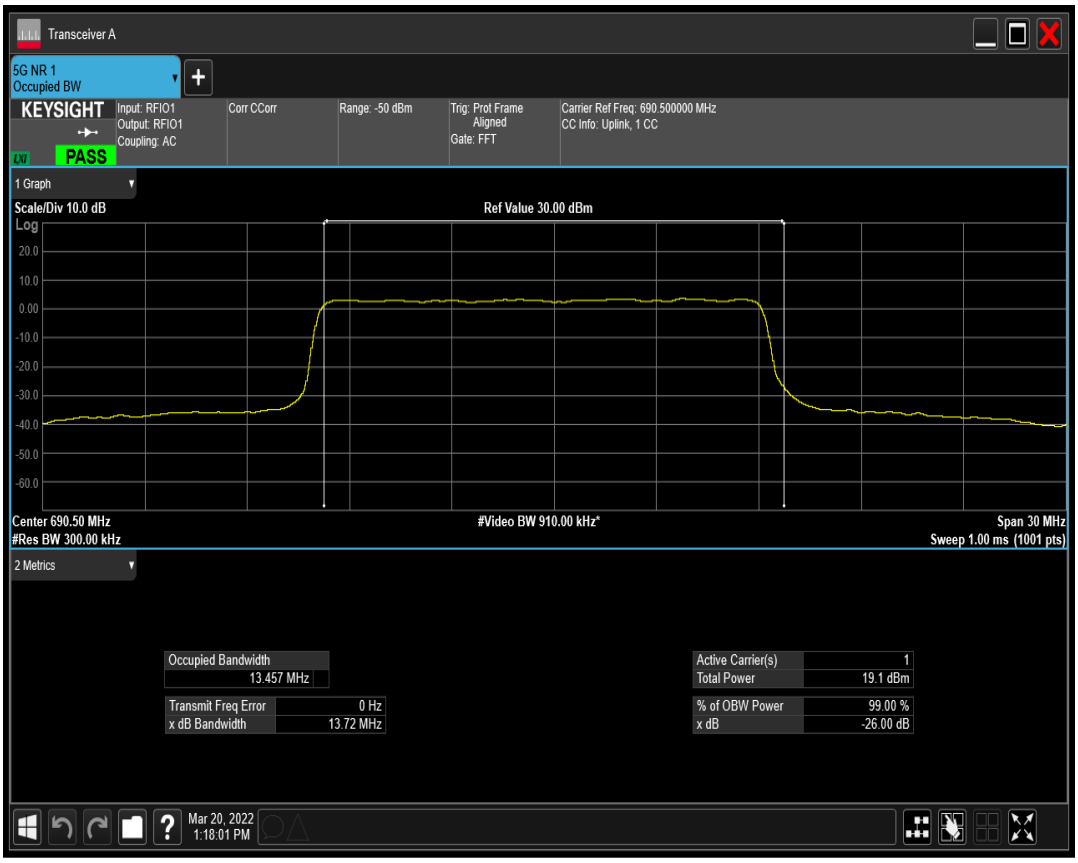

n71 SCS=30kHz DFT_QAM16 BW=15MHz Channel=138100 RB=36@0



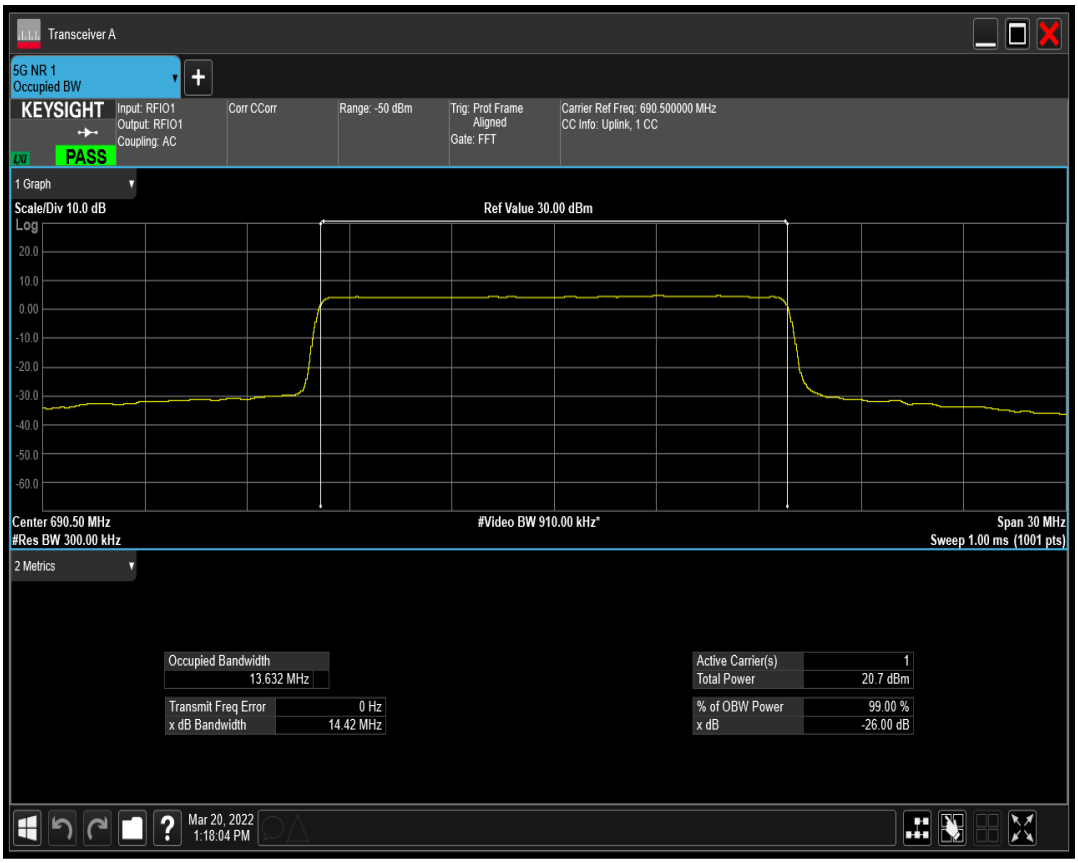

n71 SCS=30kHz DFT_QAM64 BW=15MHz Channel=138100 RB=36@0



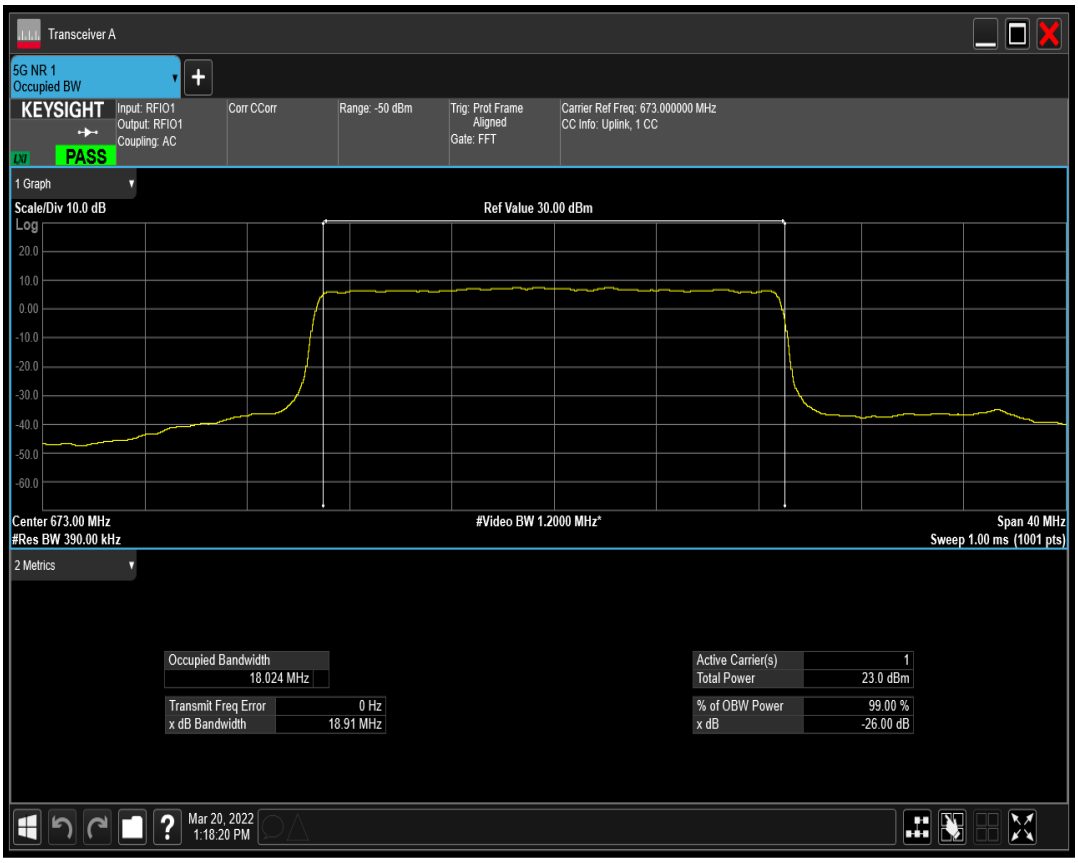

n71 SCS=30kHz DFT_QAM256 BW=15MHz Channel=138100 RB=36@0



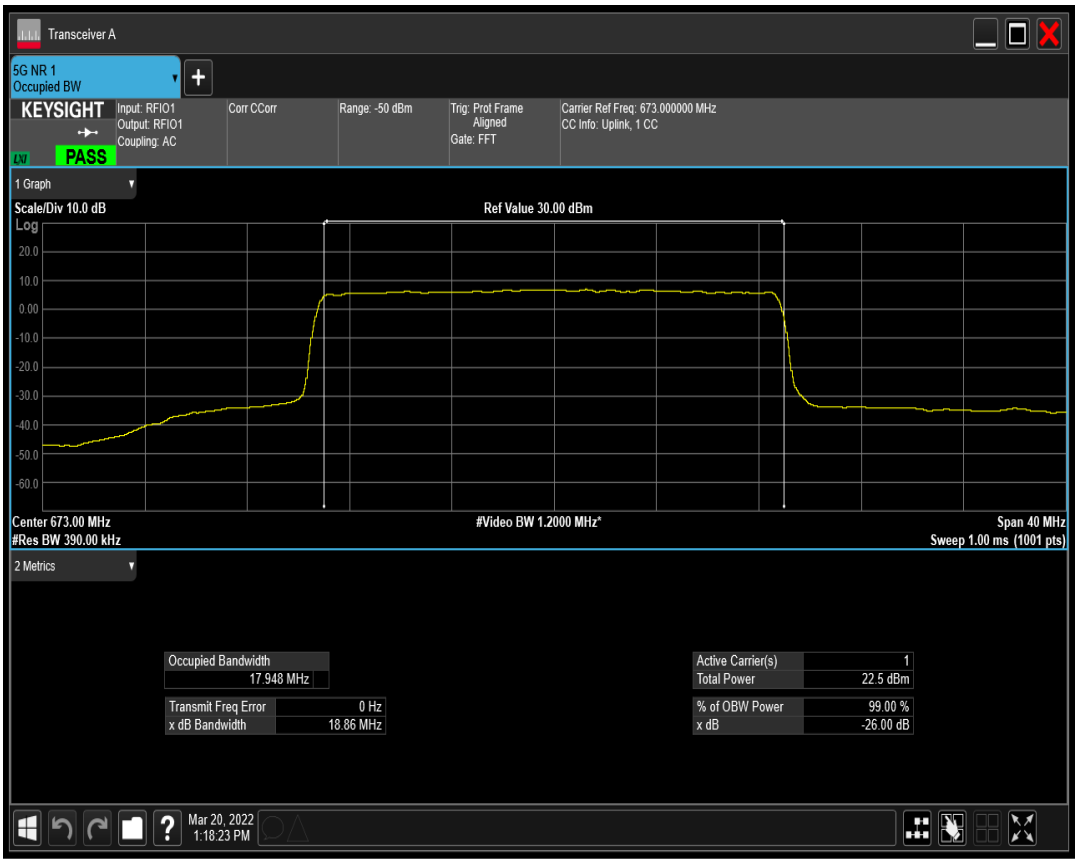

n71 SCS=30kHz CP_QPSK BW=15MHz Channel=138100 RB=38@0



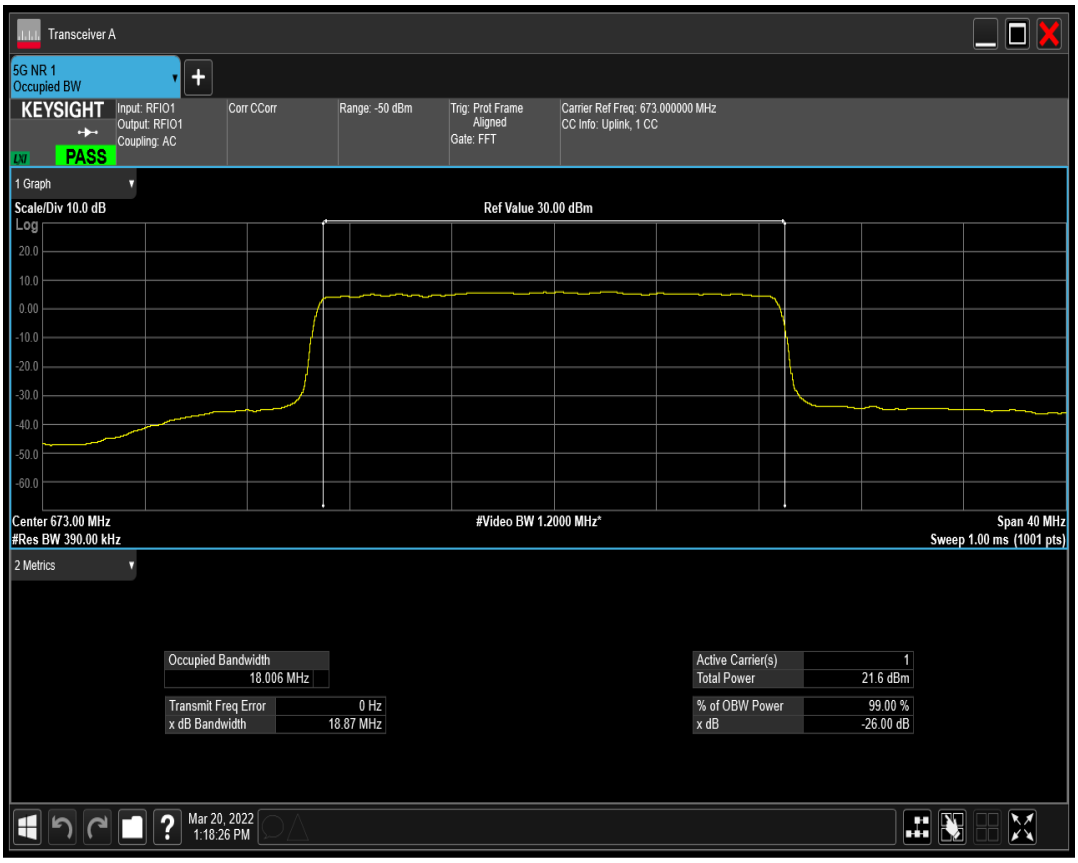

n71 SCS=30kHz DFT_BPSK BW=20MHz Channel=134600 RB=50@0



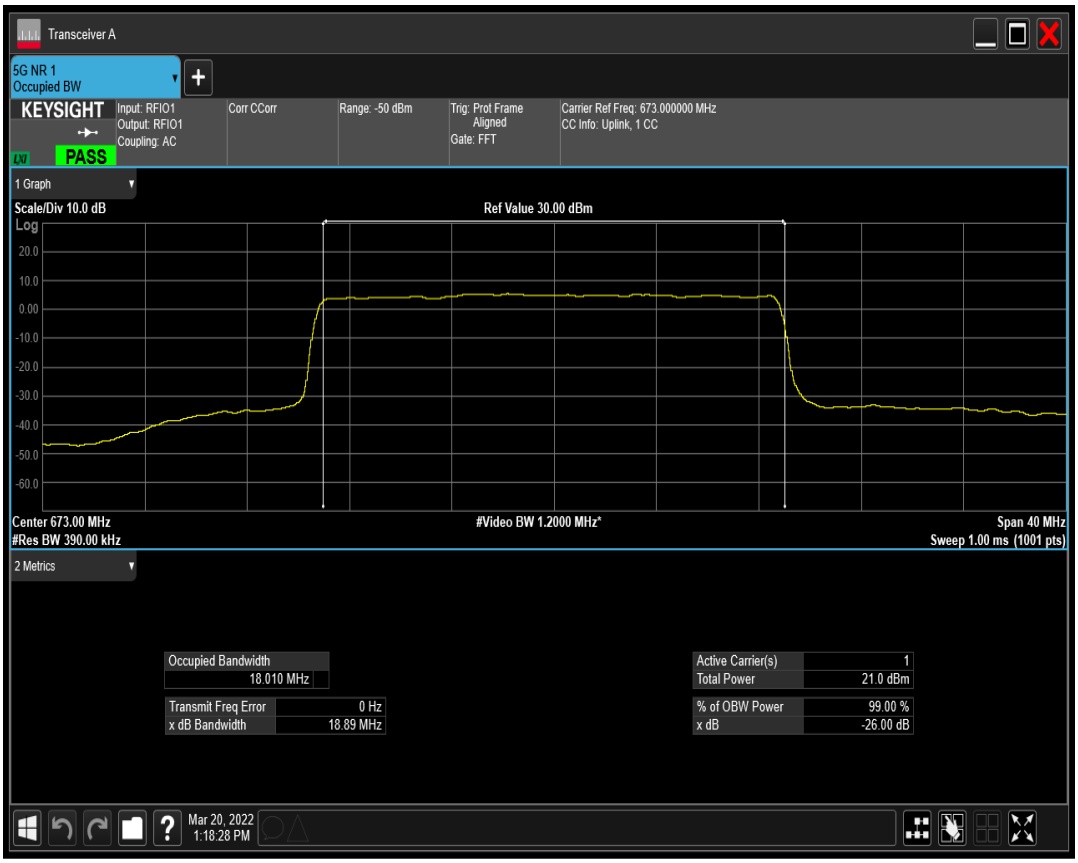

n71 SCS=30kHz DFT_QPSK BW=20MHz Channel=134600 RB=50@0



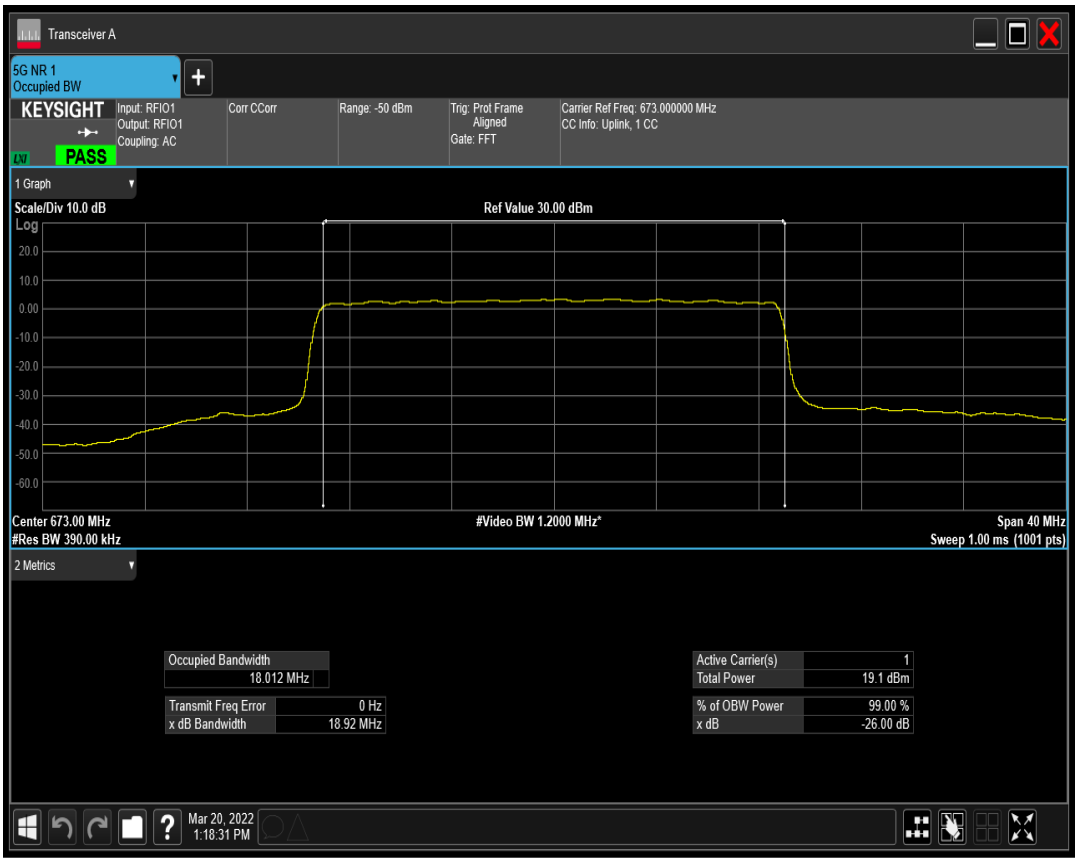

n71 SCS=30kHz DFT_QAM16 BW=20MHz Channel=134600 RB=50@0



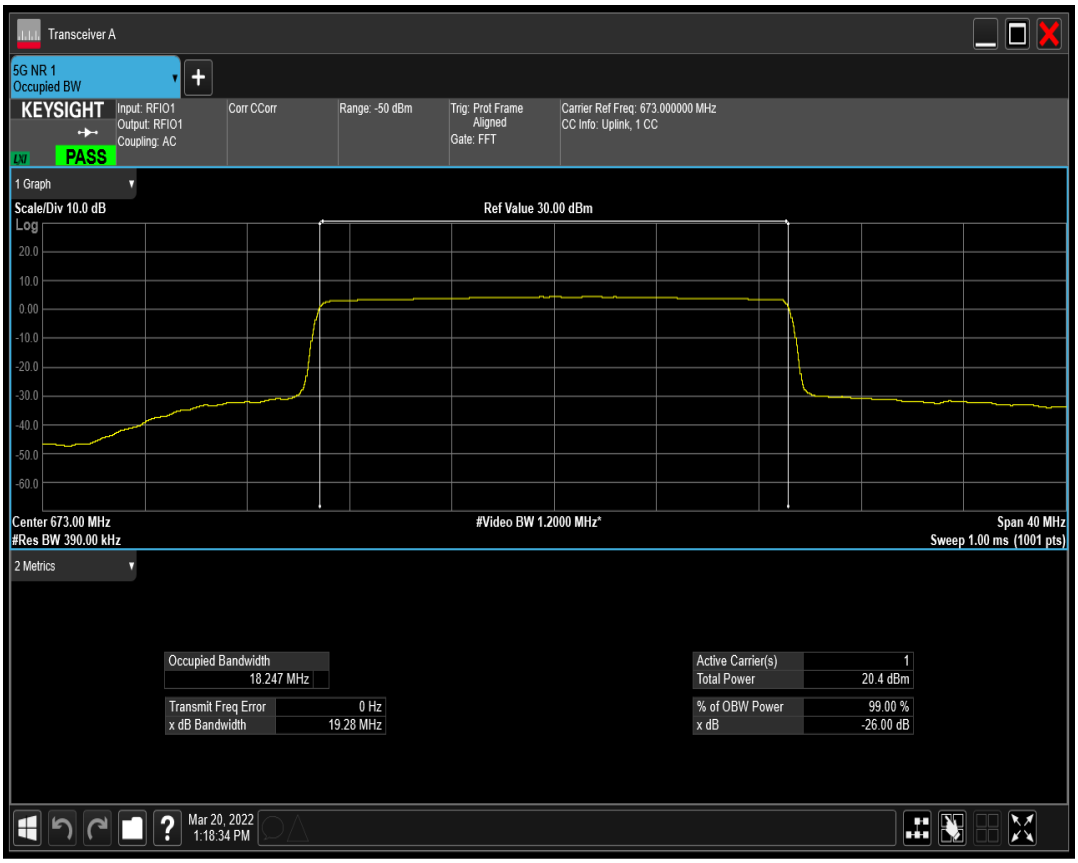

n71 SCS=30kHz DFT_QAM64 BW=20MHz Channel=134600 RB=50@0



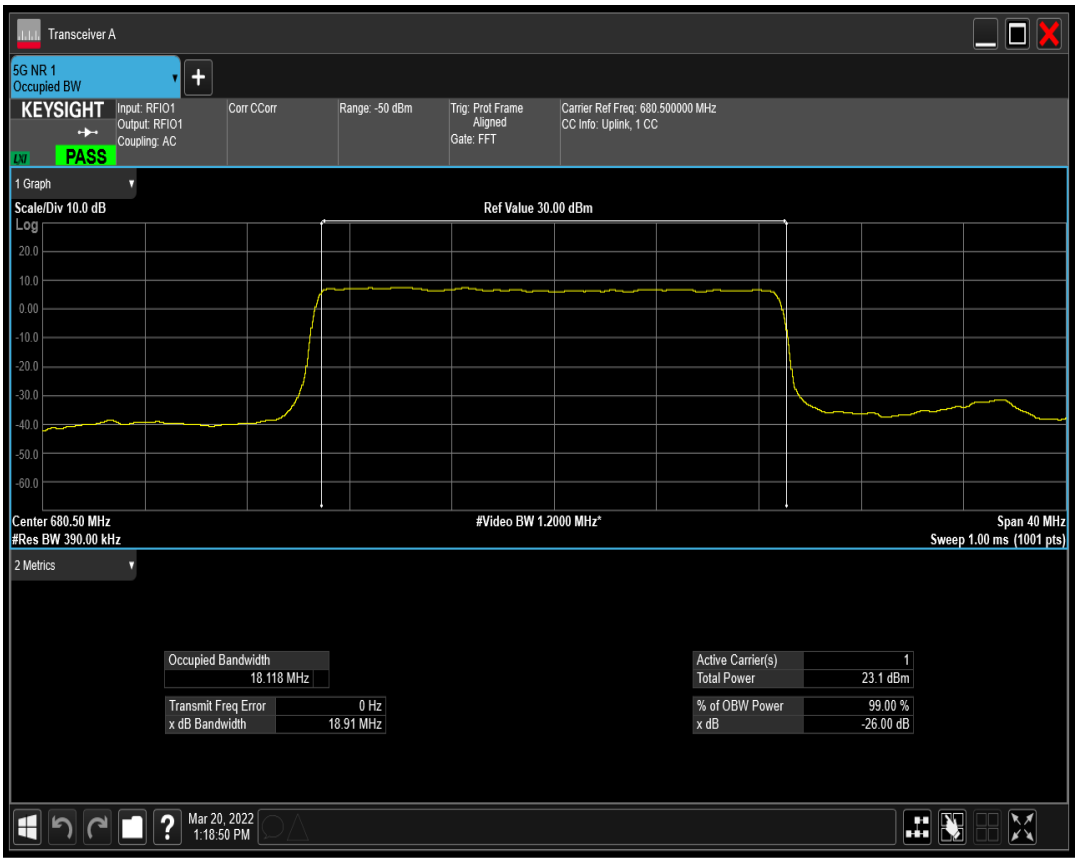

n71 SCS=30kHz DFT_QAM256 BW=20MHz Channel=134600 RB=50@0



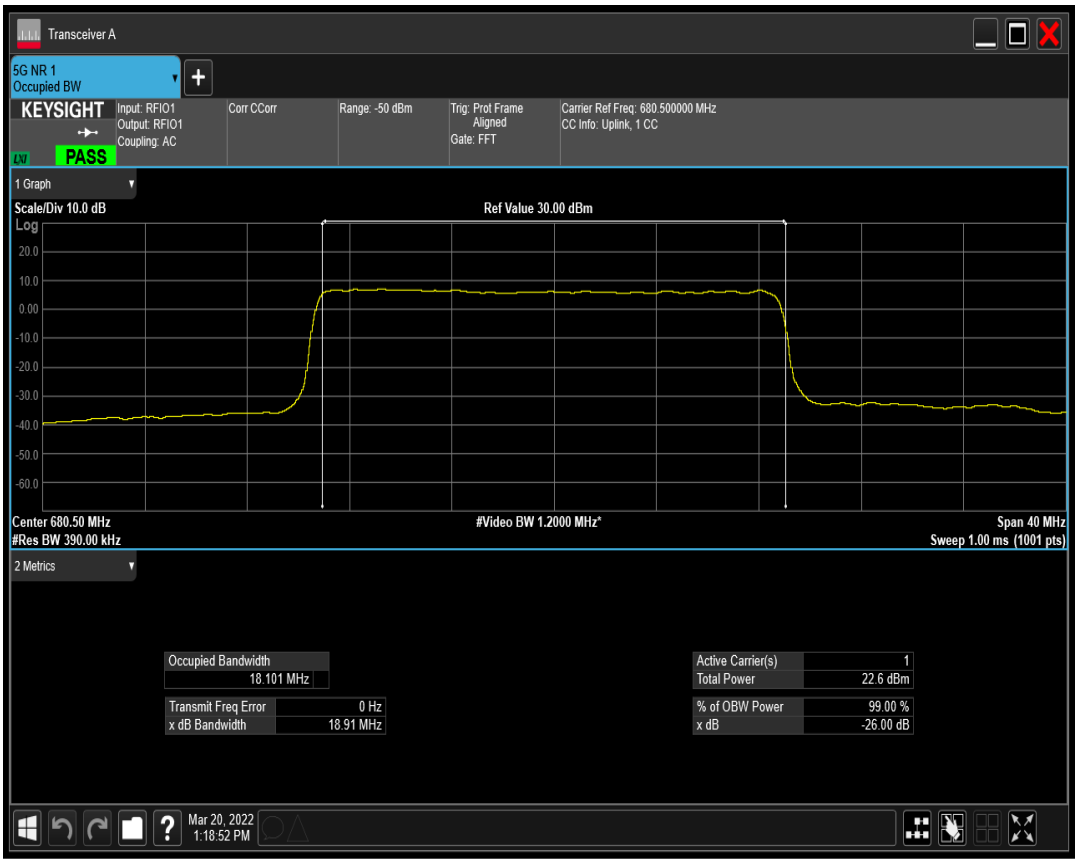

n71 SCS=30kHz CP_QPSK BW=20MHz Channel=134600 RB=51@0



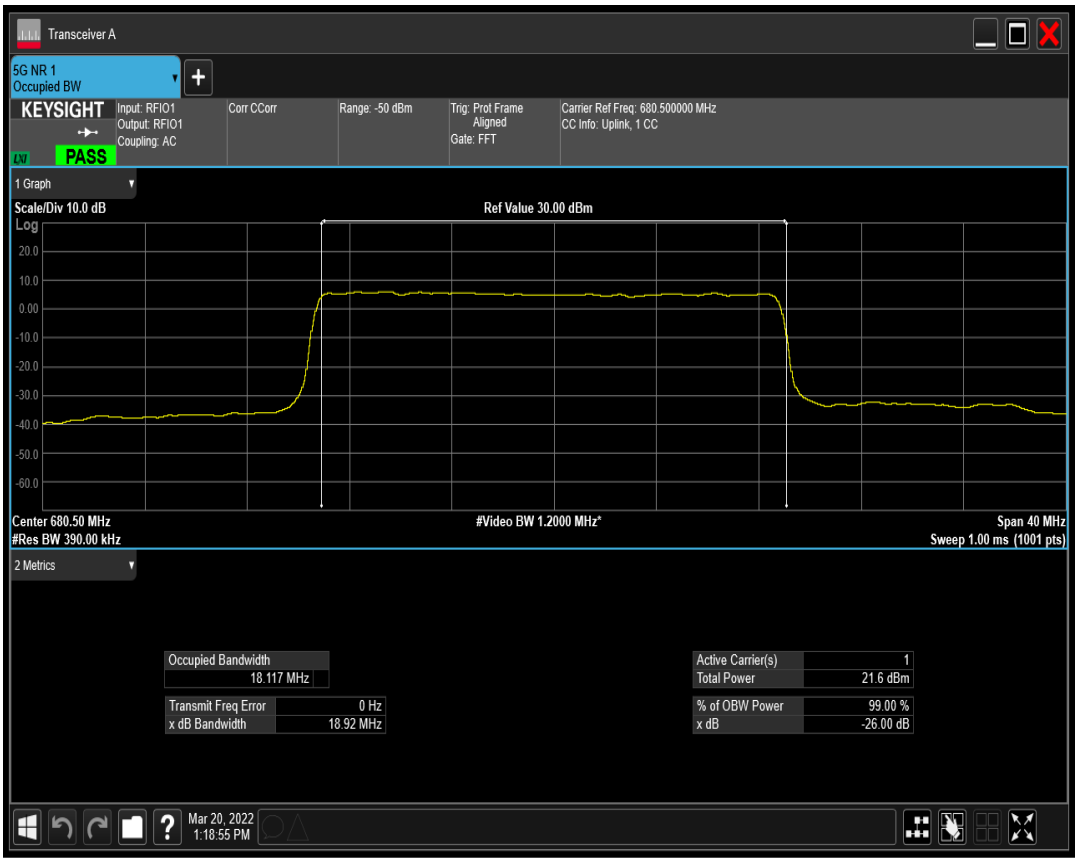

n71 SCS=30kHz DFT_BPSK BW=20MHz Channel=136100 RB=50@0



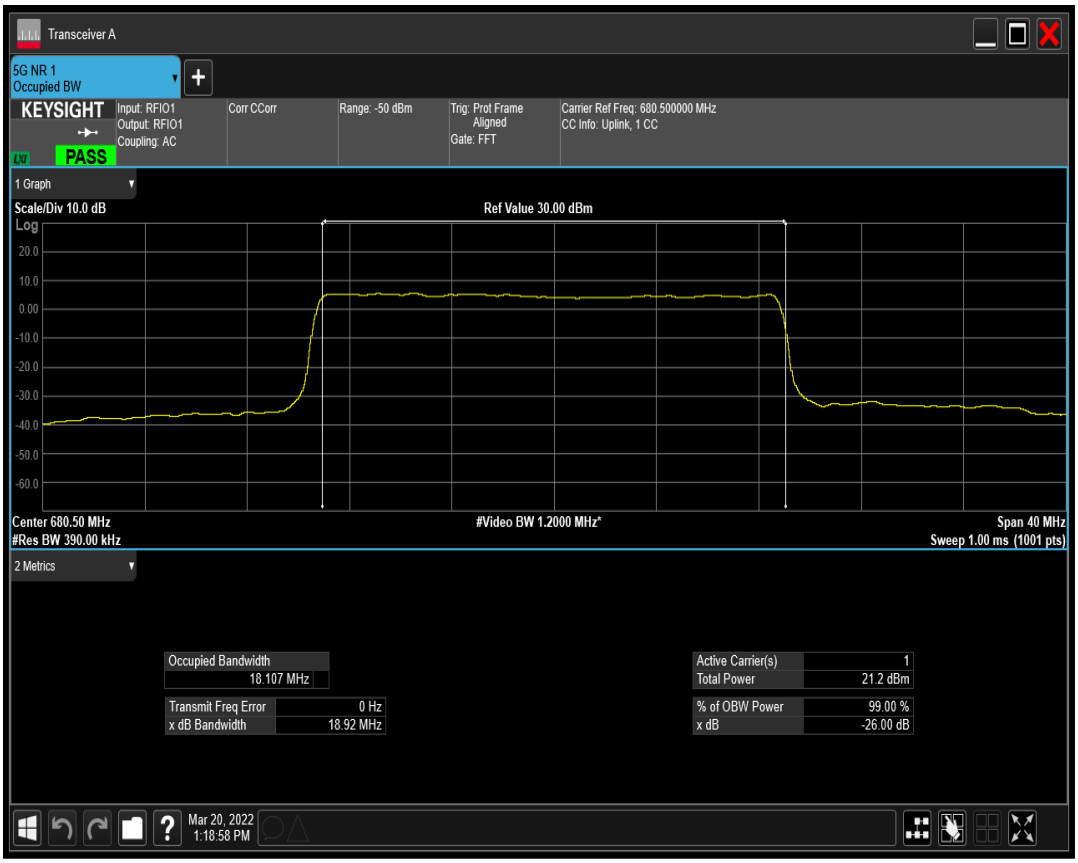

n71 SCS=30kHz DFT_QPSK BW=20MHz Channel=136100 RB=50@0



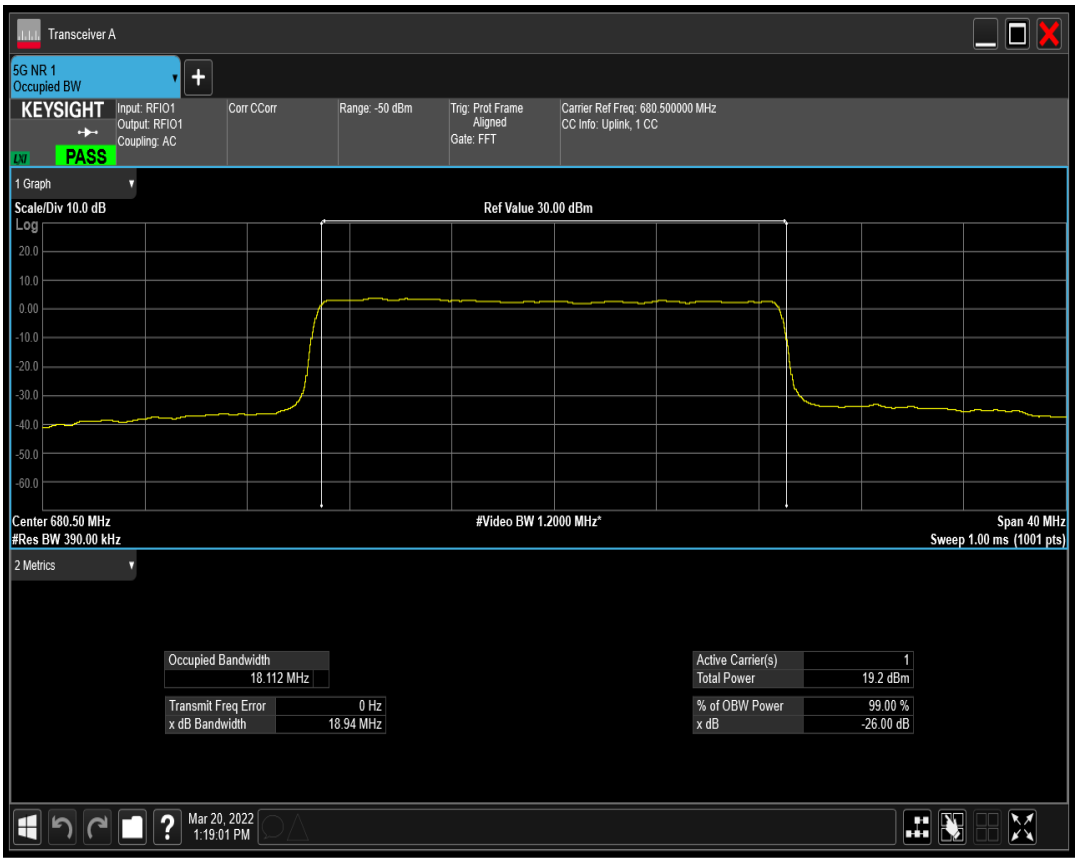

n71 SCS=30kHz DFT_QAM16 BW=20MHz Channel=136100 RB=50@0




n71 SCS=30kHz DFT_QAM64 BW=20MHz Channel=136100 RB=50@0

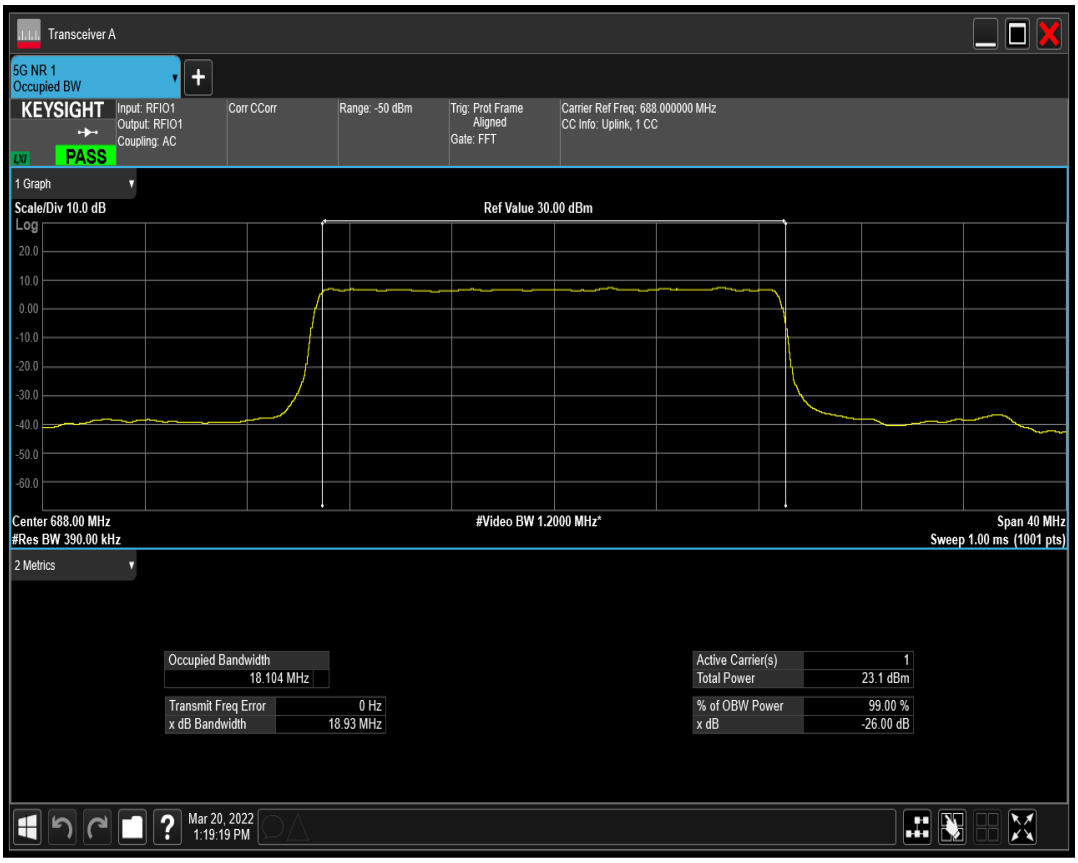



n71 SCS=30kHz DFT_QAM256 BW=20MHz Channel=136100 RB=50@0

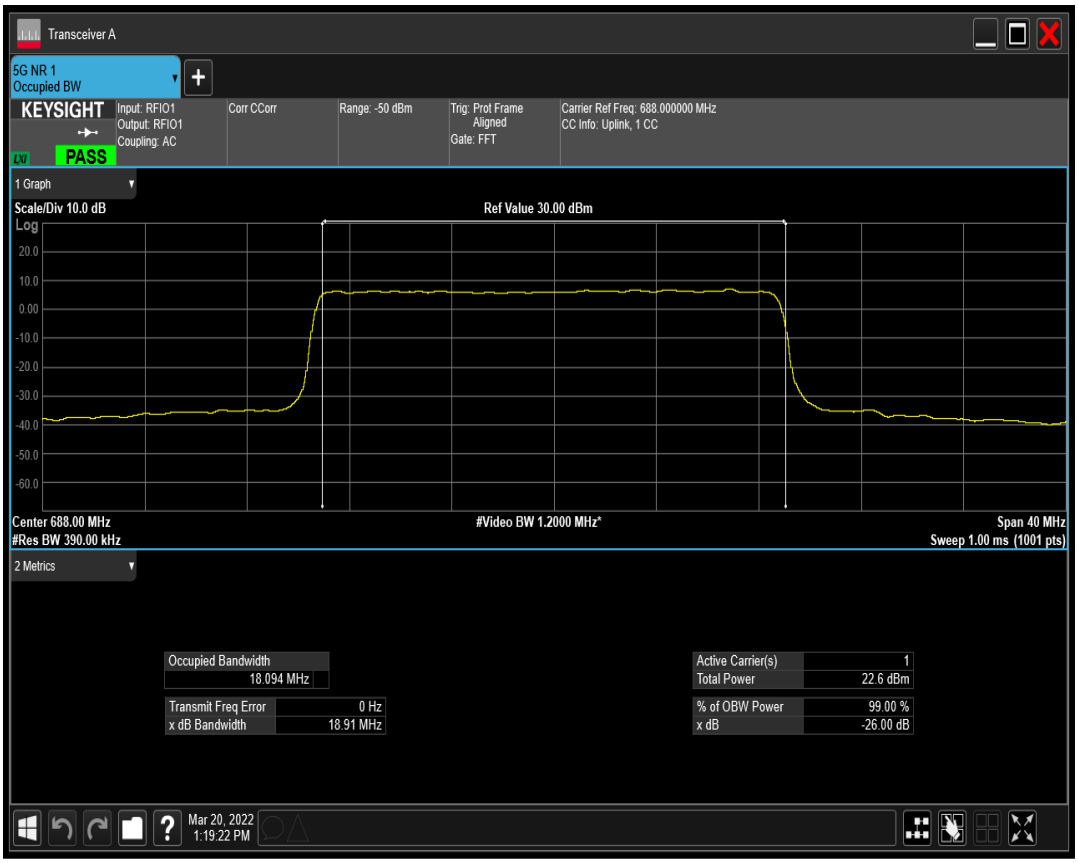



n71 SCS=30kHz CP_QPSK BW=20MHz Channel=136100 RB=51@0

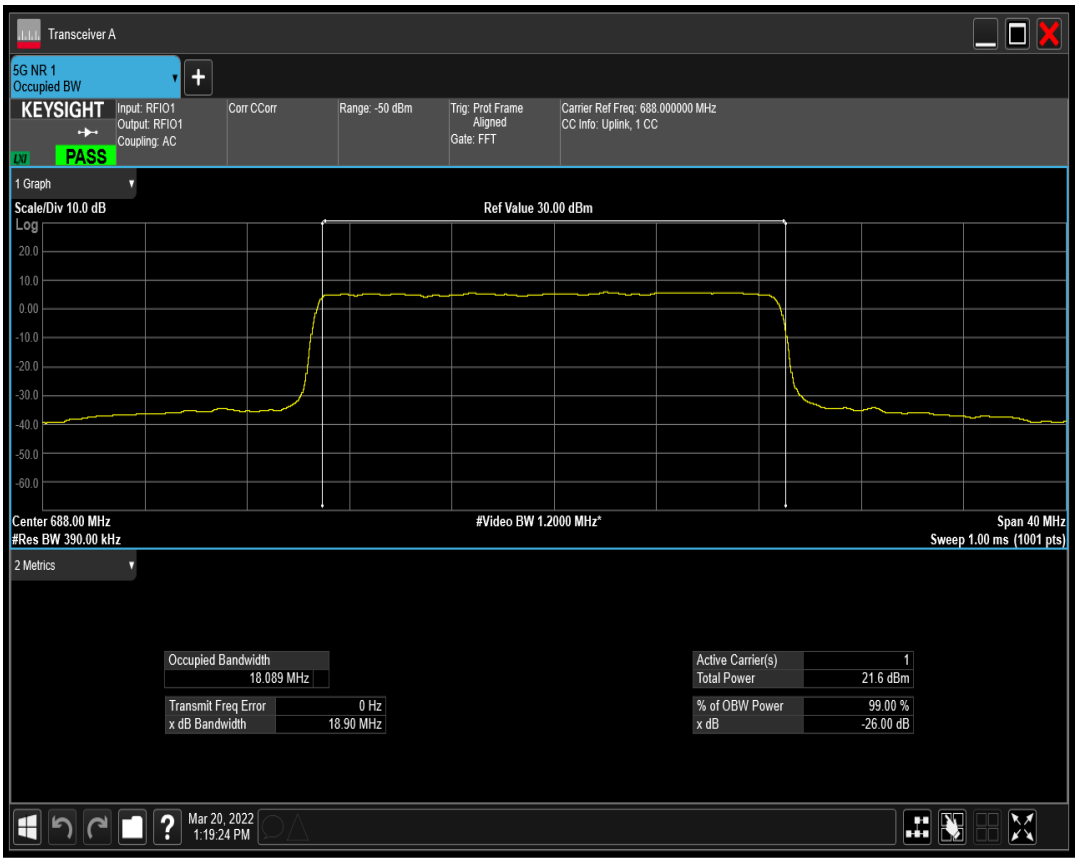
n71 SCS=30kHz DFT_BPSK BW=20MHz Channel=137600 RB=50@0



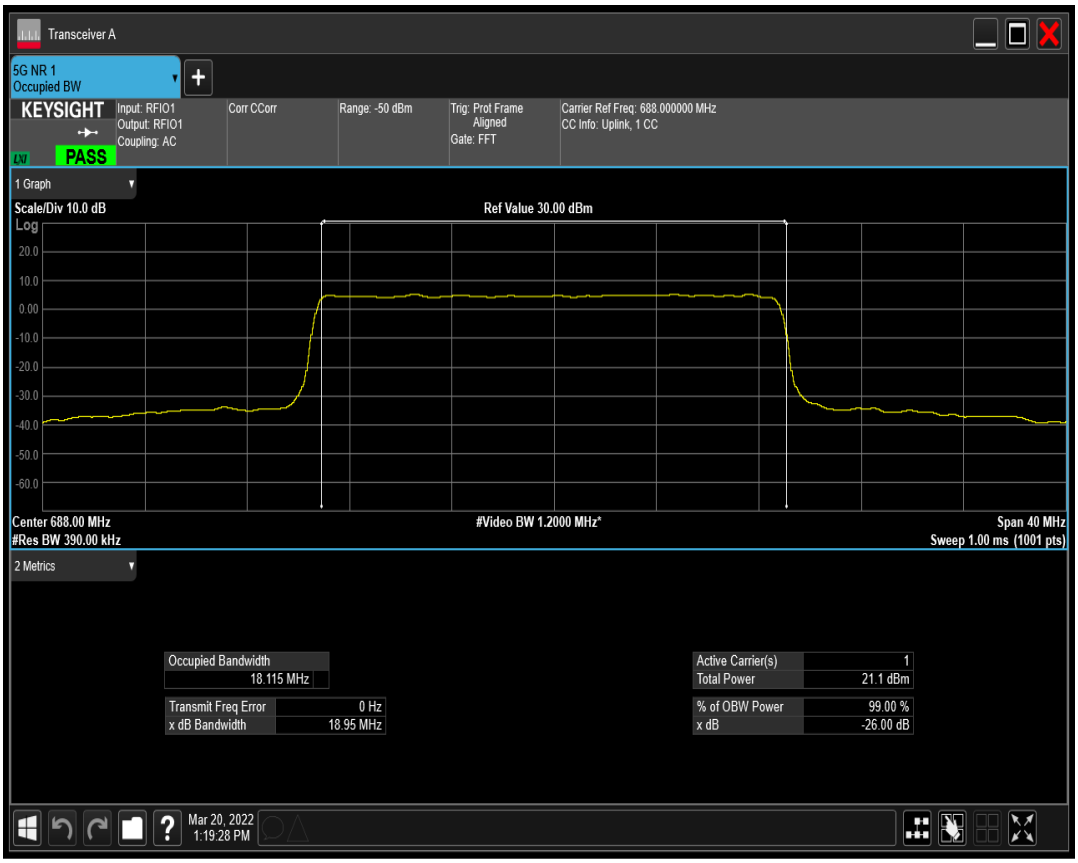

n71 SCS=30kHz DFT_QPSK BW=20MHz Channel=137600 RB=50@0



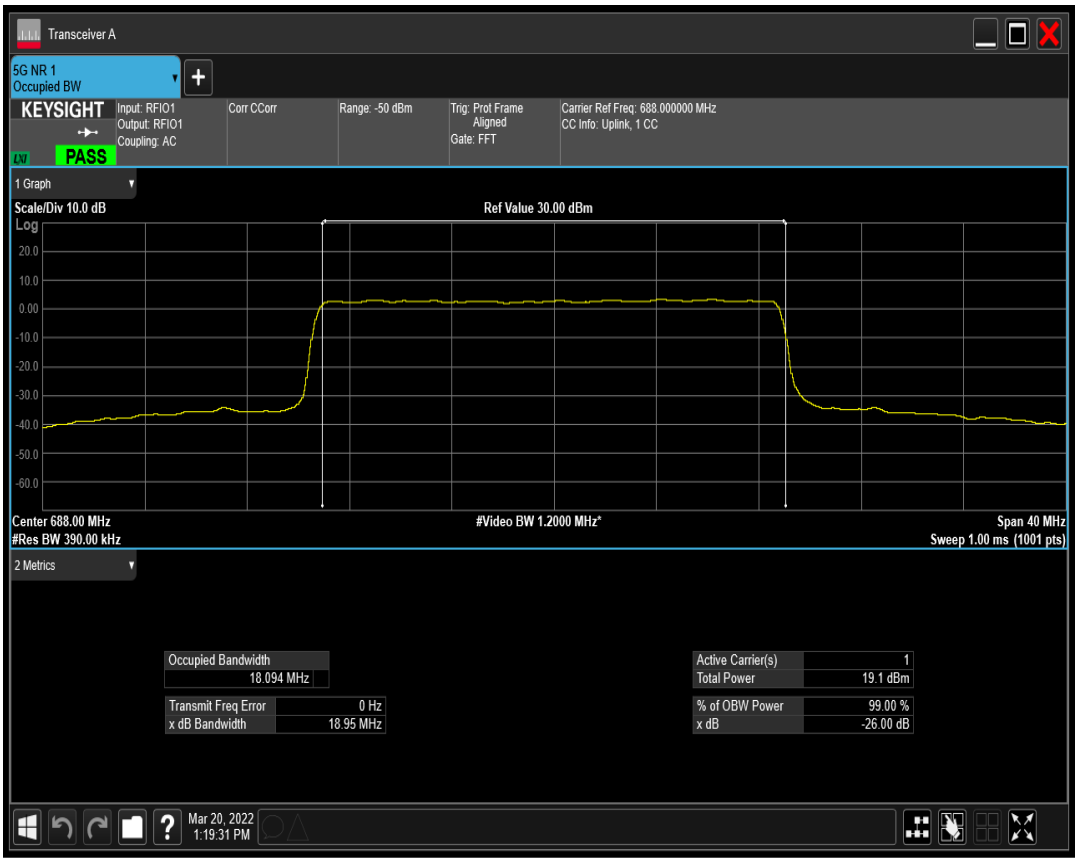

n71 SCS=30kHz DFT_QAM16 BW=20MHz Channel=137600 RB=50@0



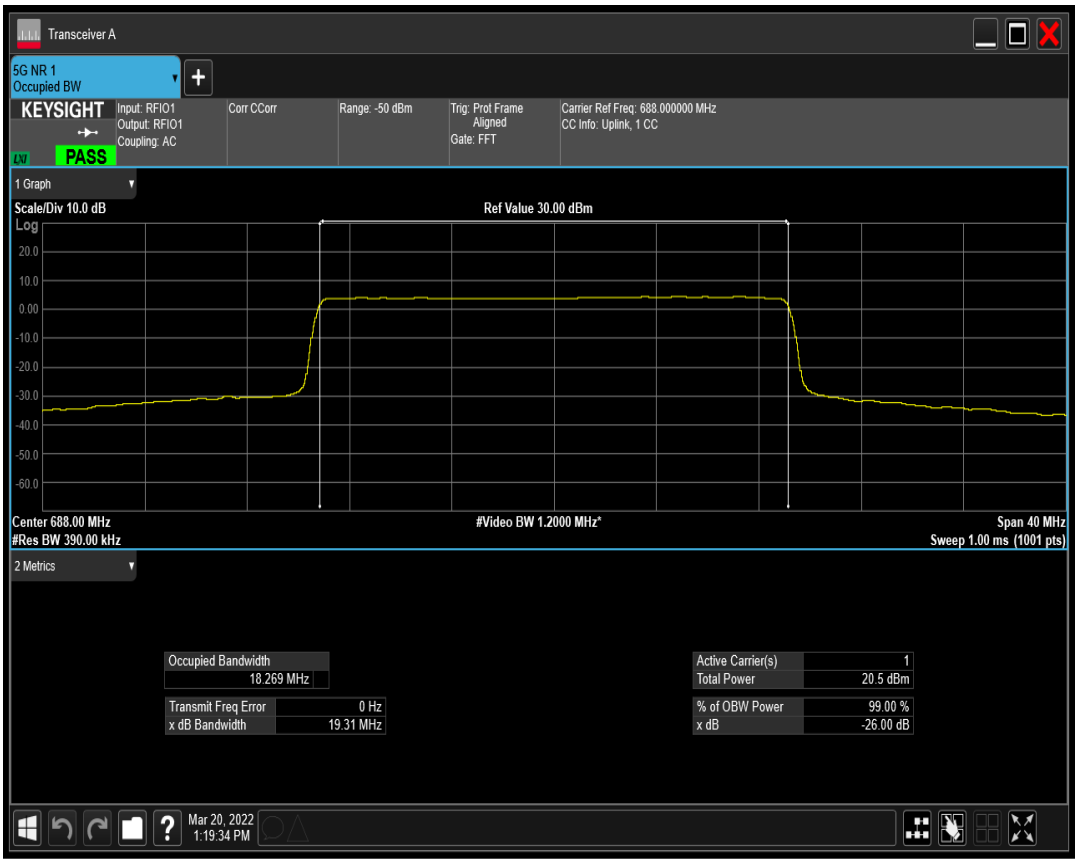

n71 SCS=30kHz DFT_QAM64 BW=20MHz Channel=137600 RB=50@0




n71 SCS=30kHz DFT_QAM256 BW=20MHz Channel=137600 RB=50@0



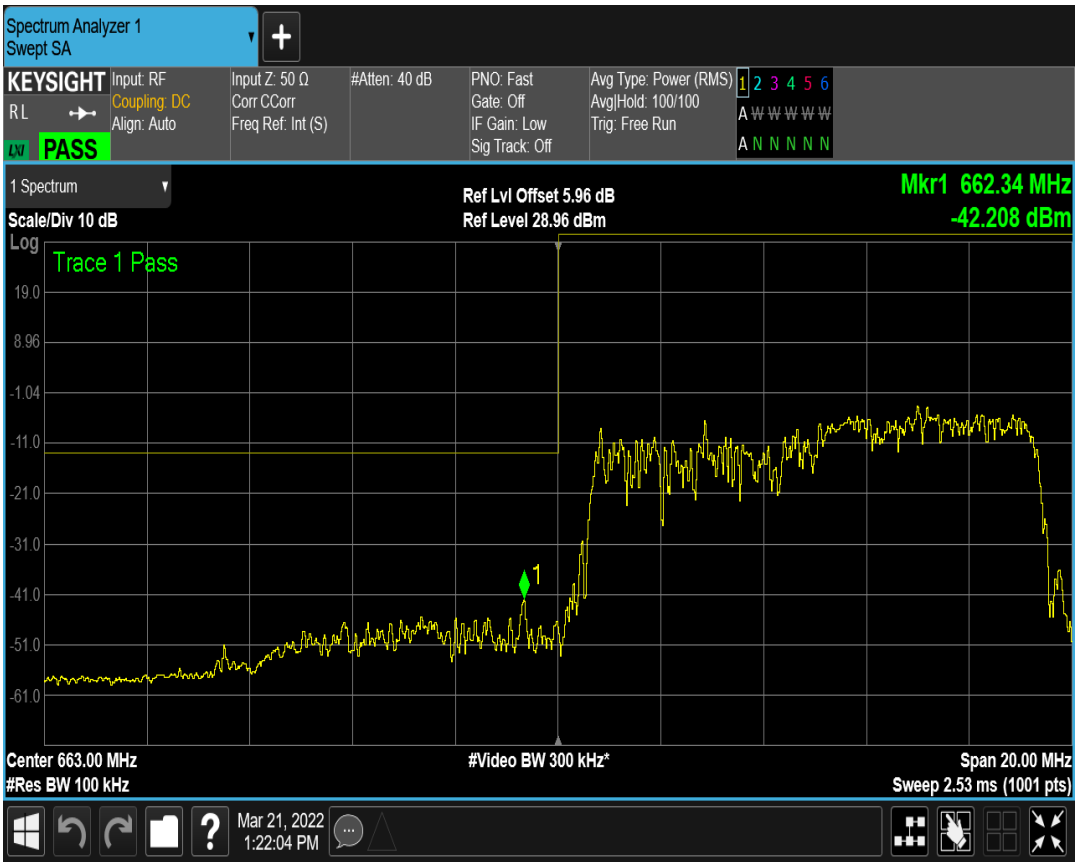

n71 SCS=30kHz CP_QPSK BW=20MHz Channel=137600 RB=51@0


Transceiver A
5G NR 1
Occupied BW
KEYSIGHT
Input: RFIO1
Output: RFIO1
Coupling: AC
Corr CCorr
Range: -50 dBm
Trig: Prot Frame
Aligned
Gate: FFT
Carrier Ref Freq: 688.000000 MHz
CC Info: Uplink, 1 CC
PASS
1 Graph
Scale/Div 10.0 dB
Ref Value 30.00 dBm
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Center 688.00 MHz
#Res BW 390.00 kHz
#Video BW 1.2000 MHz*
Span 40 MHz
Sweep 1.00 ms (1001 pts)
2 Metrics
Occupied Bandwidth
18.269 MHz
Transmit Freq Error
0 Hz
x dB Bandwidth
19.31 MHz
Active Carrier(s)
1
Total Power
20.5 dBm
% of OBW Power
99.00 %
x dB
-26.00 dB
Mar 20, 2022
1:19:34 PM

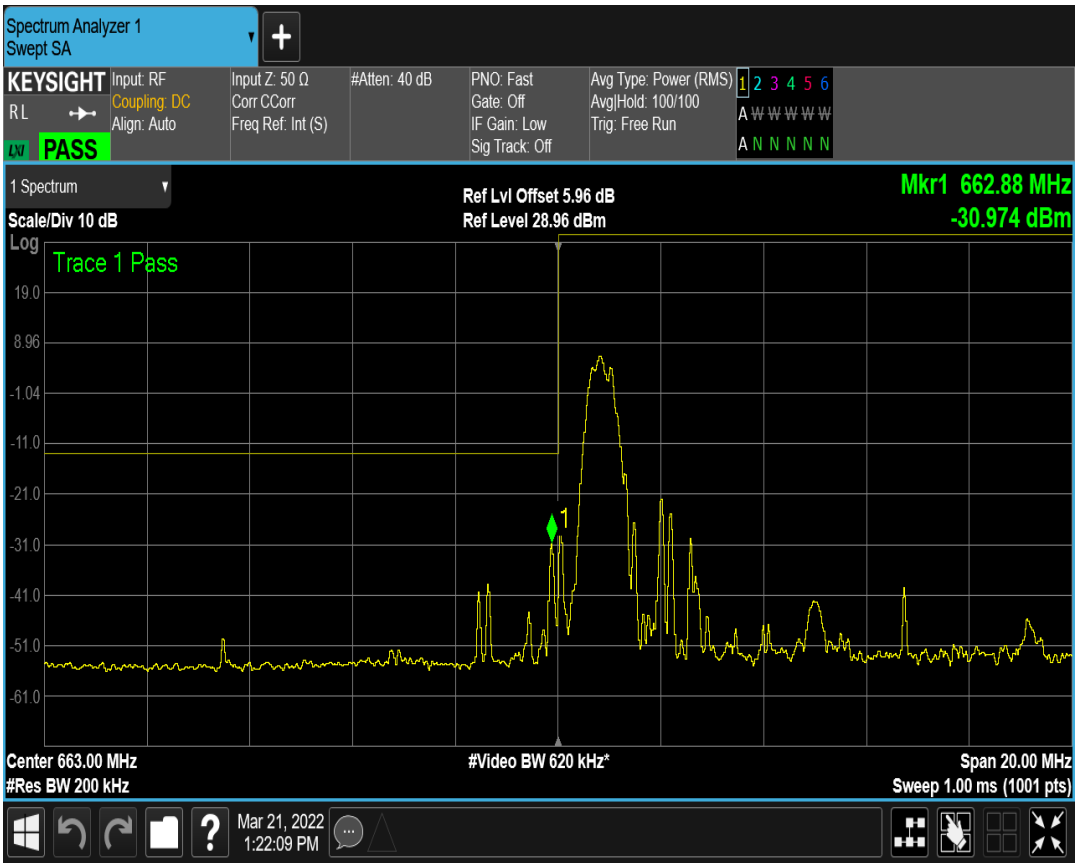
# 5. Band edge for NR FR1

| Band | SCS (kHz) | Bandwidth (MHz) | UL Channel | RB Allocation | Modulation | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) | Verdict |
|---|---|---|---|---|---|---|---|---|---|
| n71 | 30 | 10 | 133600 | 24@0 | DFT_QPSK | 662.34 | -42.20 | -13 | PASS |
| n71 | 30 | 10 | 133600 | 1@0 | DFT_QPSK | 662.88 | -30.97 | -13 | PASS |
| n71 | 30 | 10 | 138600 | 24@0 | DFT_QPSK | 698.00 | -42.11 | -13 | PASS |
| n71 | 30 | 10 | 138600 | 1@23 | DFT_QPSK | 698.10 | -32.54 | -13 | PASS |
| n71 | 30 | 20 | 134600 | 50@0 | DFT_QPSK | 660.36 | -43.14 | -13 | PASS |
| n71 | 30 | 20 | 134600 | 1@0 | DFT_QPSK | 662.80 | -29.45 | -13 | PASS |
| n71 | 30 | 20 | 137600 | 50@0 | DFT_QPSK | 698.00 | -43.49 | -13 | PASS |
| n71 | 30 | 20 | 137600 | 1@50 | DFT_QPSK | 698.32 | -36.09 | -13 | PASS |

n71 SCS=30kHz DFT_QPSK BW=10MHz Channel=133600 RB=24@0

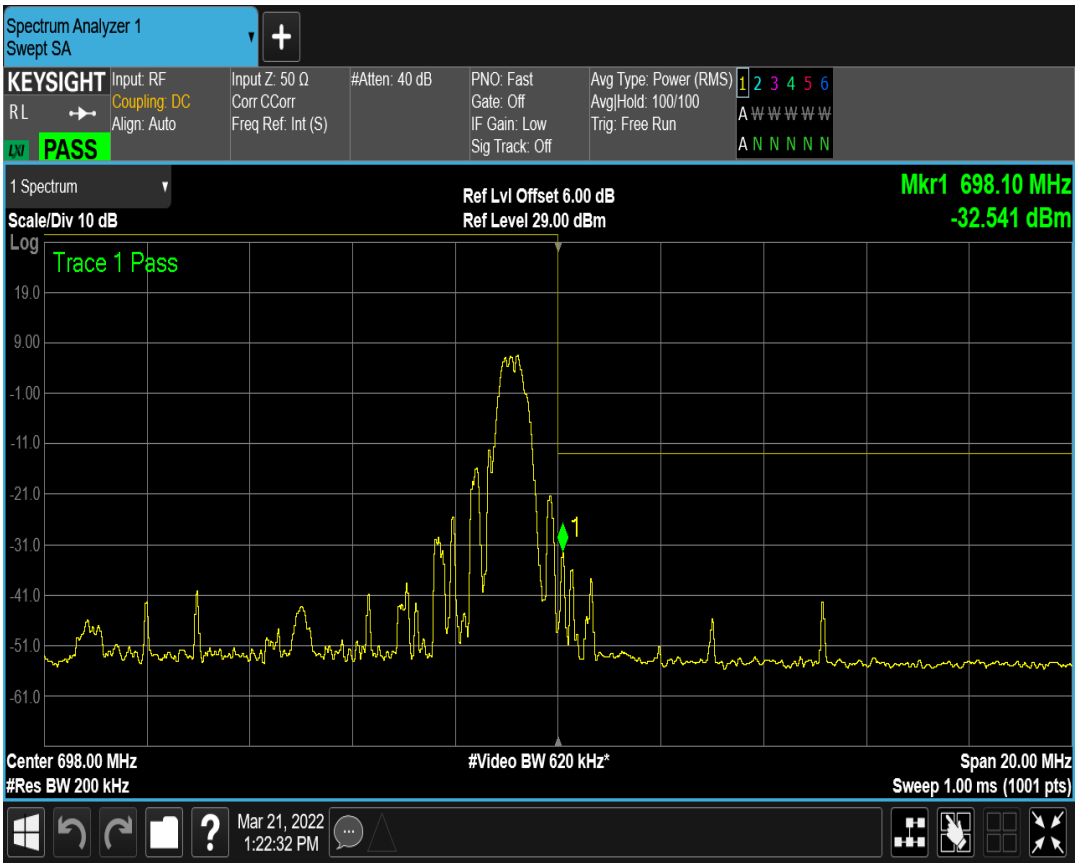



n71 SCS=30kHz DFT_QPSK BW=10MHz Channel=133600 RB=1@0

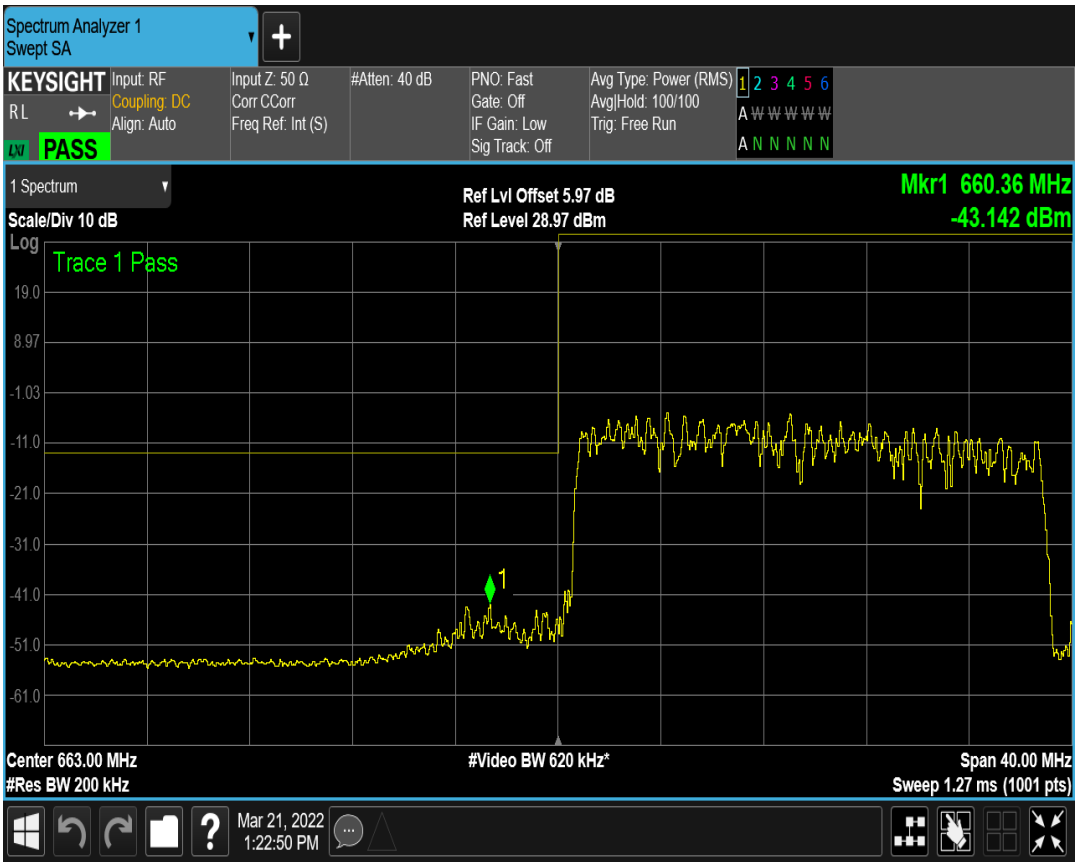



n71 SCS=30kHz DFT_QPSK BW=10MHz Channel=138600 RB=24@0

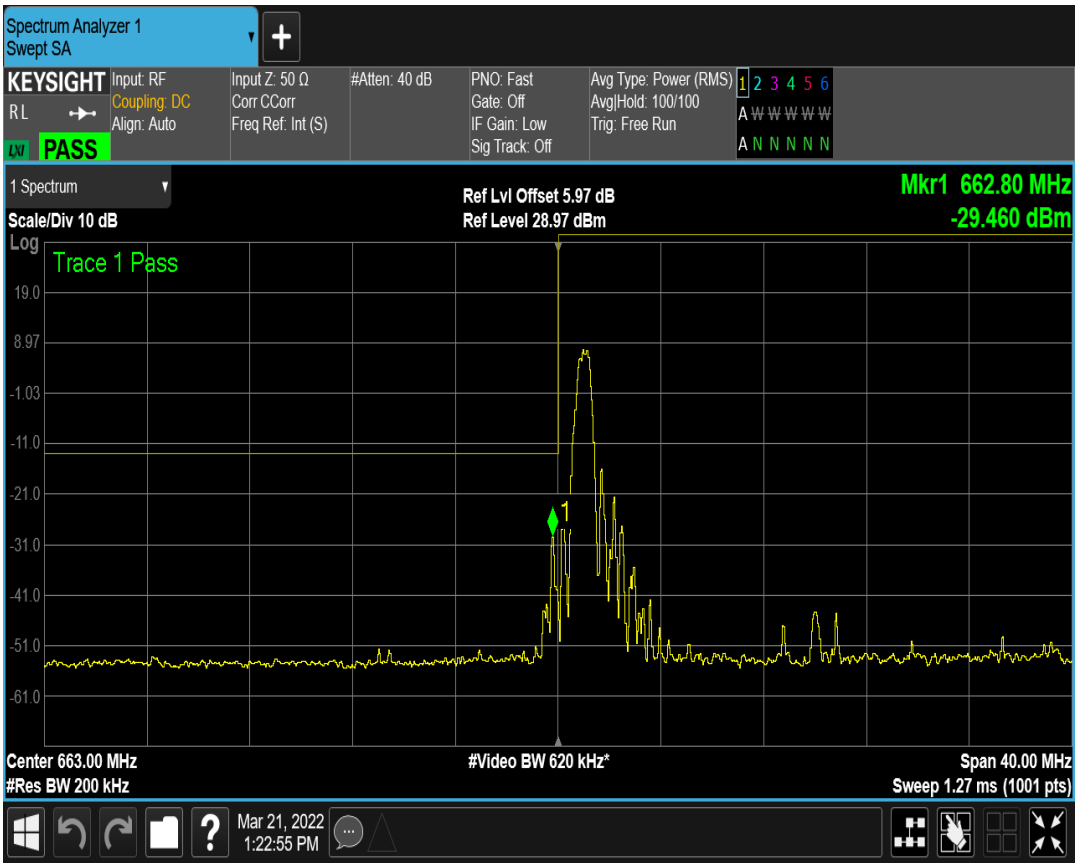
n71 SCS=30kHz DFT_QPSK BW=10MHz Channel=138600 RB=1@23



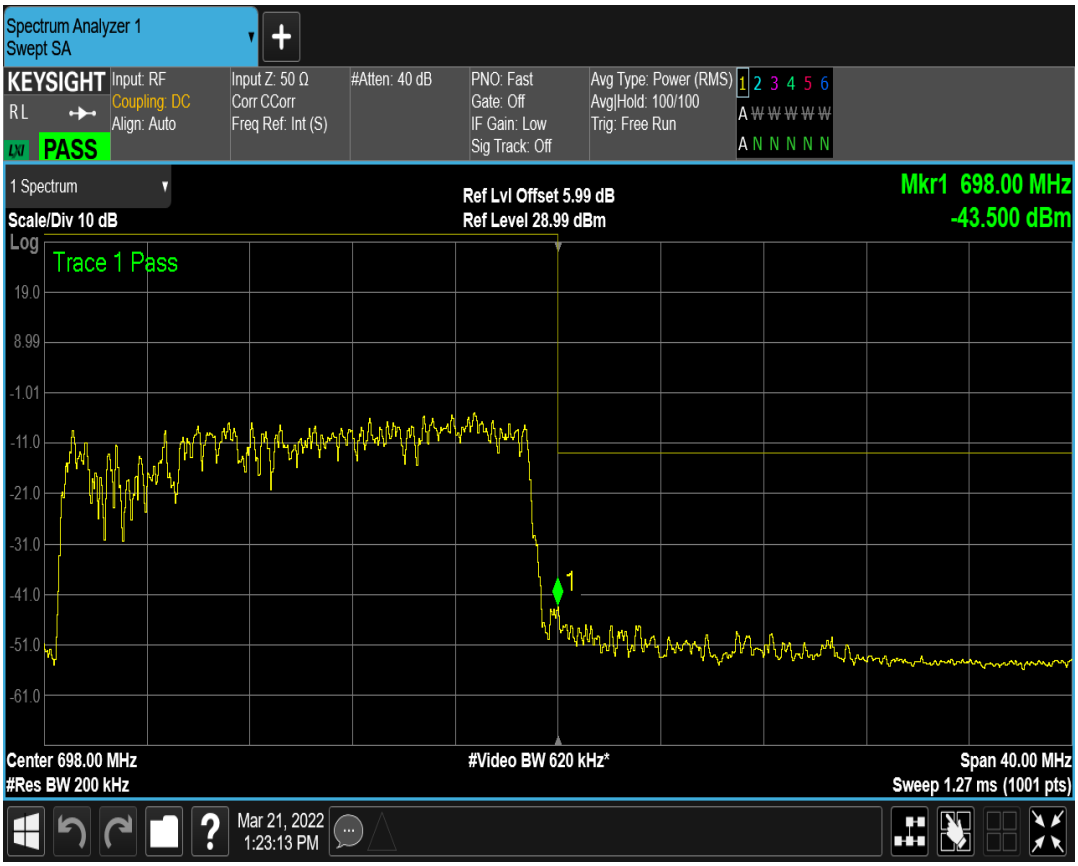

n71 SCS=30kHz DFT_QPSK BW=20MHz Channel=134600 RB=50@0



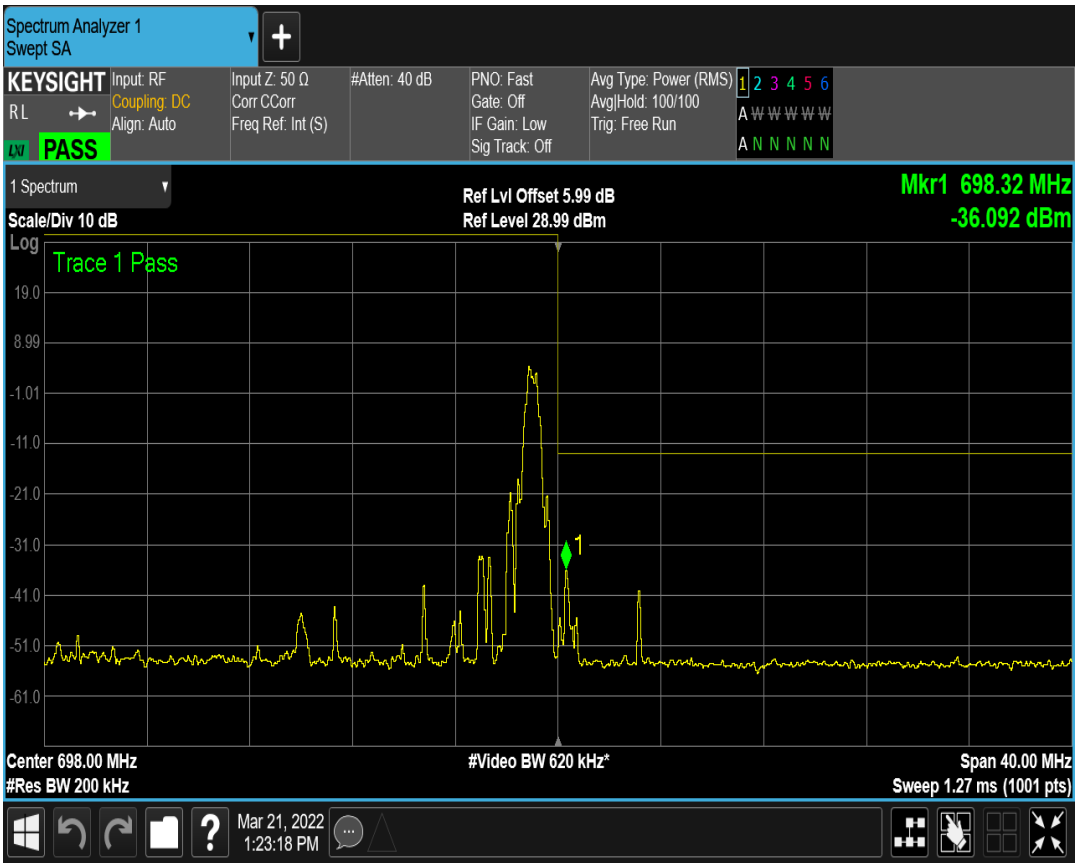

n71 SCS=30kHz DFT_QPSK BW=20MHz Channel=134600 RB=1@0




n71 SCS=30kHz DFT_QPSK BW=20MHz Channel=137600 RB=50@0



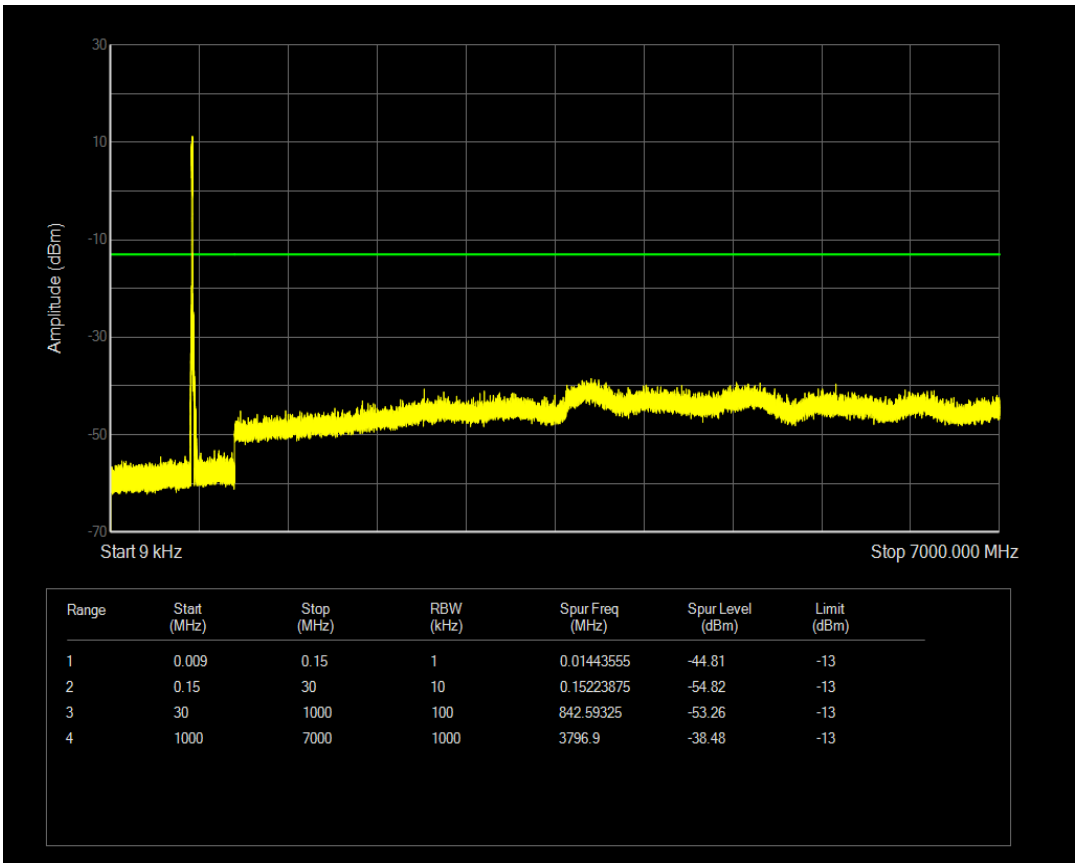

n71 SCS=30kHz DFT_QPSK BW=20MHz Channel=137600 RB=1@50


Spectrum Analyzer 1
Swept SA
KEYSIGHT
RL
PASS
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corr CCorr
Freq Ref: Int (S)
#Atten: 40 dB
PNO: Fast
Gate: Off
IF Gain: Low
Sig Track: Off
Avg Type: Power (RMS)
Avg|Hold: 100/100
Trig: Free Run
1 Spectrum
Scale/Div 10 dB
Log
Ref Lvl Offset 5.99 dB
Ref Level 28.99 dBm
Mkr1 698.32 MHz
-36.092 dBm
Trace 1 Pass
19.0
8.99
-1.01
-11.0
-21.0
-31.0
-41.0
-51.0
-61.0
Center 698.00 MHz
#Res BW 200 kHz
#Video BW 620 kHz*
Span 40.00 MHz
Sweep 1.27 ms (1001 pts)
Mar 21, 2022
1:23:18 PM

# 6. Out-of-band emissions for NR FR1

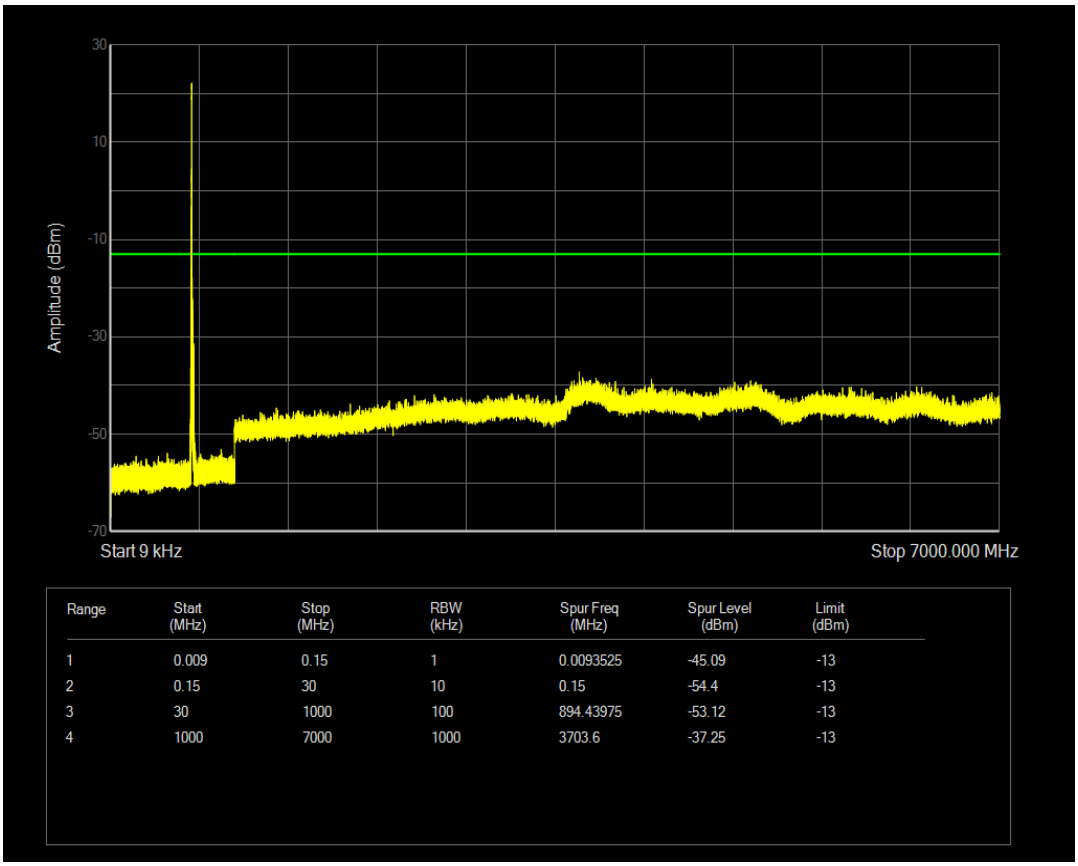
| Band | SCS (kHz) | Bandwidth (MHz) | UL Channel | RB Allocation | Modulation | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) | Verdict |
|---|---|---|---|---|---|---|---|---|---|
| n71 | 30 | 10 | 133600 | 24@0 | DFT_QPSK | 3796.90 | -38.48 | -13 | PASS |
| n71 | 30 | 10 | 133600 | 1@0 | DFT_QPSK | 3703.60 | -37.25 | -13 | PASS |
| n71 | 30 | 10 | 133600 | 1@23 | DFT_QPSK | 3731.65 | -38.06 | -13 | PASS |
| n71 | 30 | 10 | 136100 | 24@0 | DFT_QPSK | 3716.05 | -38.23 | -13 | PASS |
| n71 | 30 | 10 | 136100 | 1@0 | DFT_QPSK | 3821.80 | -37.35 | -13 | PASS |
| n71 | 30 | 10 | 136100 | 1@23 | DFT_QPSK | 5090.20 | -38.55 | -13 | PASS |
| n71 | 30 | 10 | 138600 | 24@0 | DFT_QPSK | 3838.90 | -38.59 | -13 | PASS |
| n71 | 30 | 10 | 138600 | 1@0 | DFT_QPSK | 3840.70 | -38.39 | -13 | PASS |
| n71 | 30 | 10 | 138600 | 1@23 | DFT_QPSK | 3829.30 | -37.79 | -13 | PASS |
| n71 | 30 | 20 | 134600 | 50@0 | DFT_QPSK | 3822.10 | -38.01 | -13 | PASS |
| n71 | 30 | 20 | 134600 | 1@0 | DFT_QPSK | 3722.20 | -37.76 | -13 | PASS |
| n71 | 30 | 20 | 134600 | 1@50 | DFT_QPSK | 3778.45 | -38.19 | -13 | PASS |
| n71 | 30 | 20 | 136100 | 50@0 | DFT_QPSK | 3787.15 | -38.17 | -13 | PASS |
| n71 | 30 | 20 | 136100 | 1@0 | DFT_QPSK | 3781.60 | -37.70 | -13 | PASS |
| n71 | 30 | 20 | 136100 | 1@50 | DFT_QPSK | 3745.15 | -38.52 | -13 | PASS |
| n71 | 30 | 20 | 137600 | 50@0 | DFT_QPSK | 3809.05 | -37.54 | -13 | PASS |
| n71 | 30 | 20 | 137600 | 1@0 | DFT_QPSK | 4952.80 | -38.57 | -13 | PASS |
| n71 | 30 | 20 | 137600 | 1@50 | DFT_QPSK | 3754.30 | -38.14 | -13 | PASS |

n71 SCS=30kHz DFT_QPSK BW=10MHz Channel=133600 RB=24@0



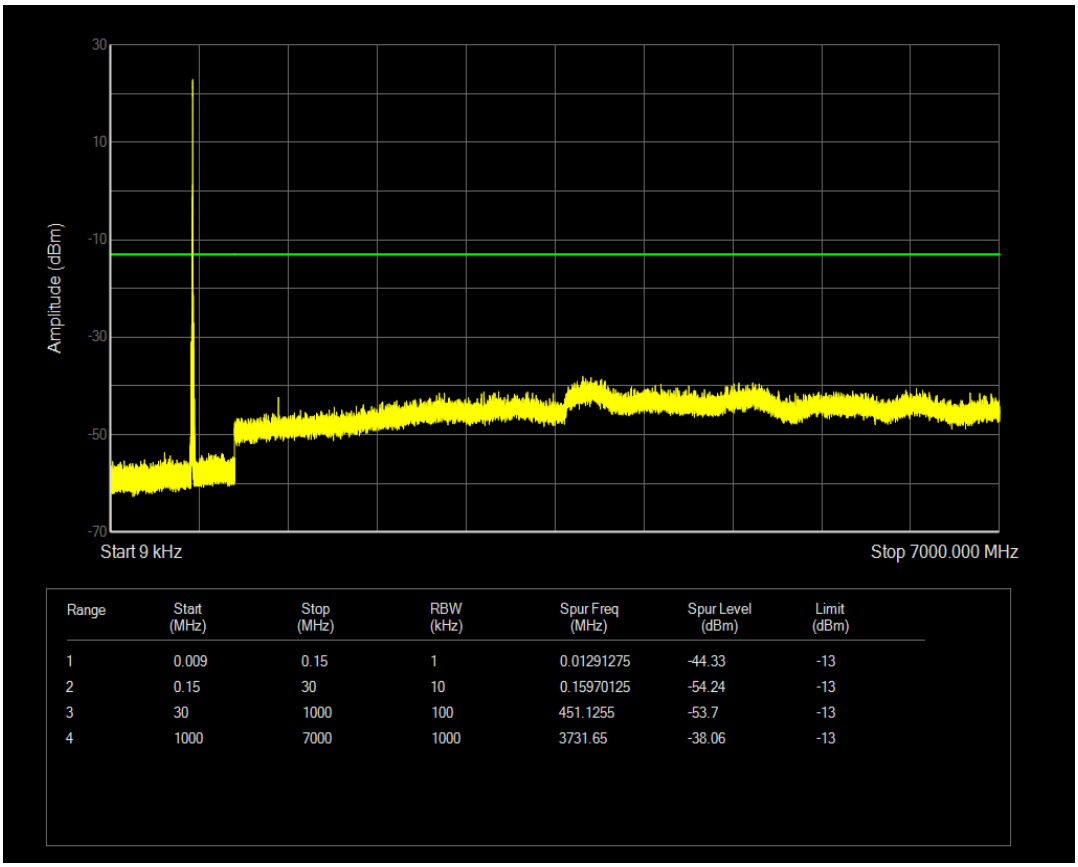

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.01443555 | -44.81 | -13 |
| 2 | 0.15 | 30 | 10 | 0.15223875 | -54.82 | -13 |
| 3 | 30 | 1000 | 100 | 842.59325 | -53.26 | -13 |
| 4 | 1000 | 7000 | 1000 | 3796.9 | -38.48 | -13 |

n71 SCS=30kHz DFT_QPSK BW=10MHz Channel=133600 RB=1@0



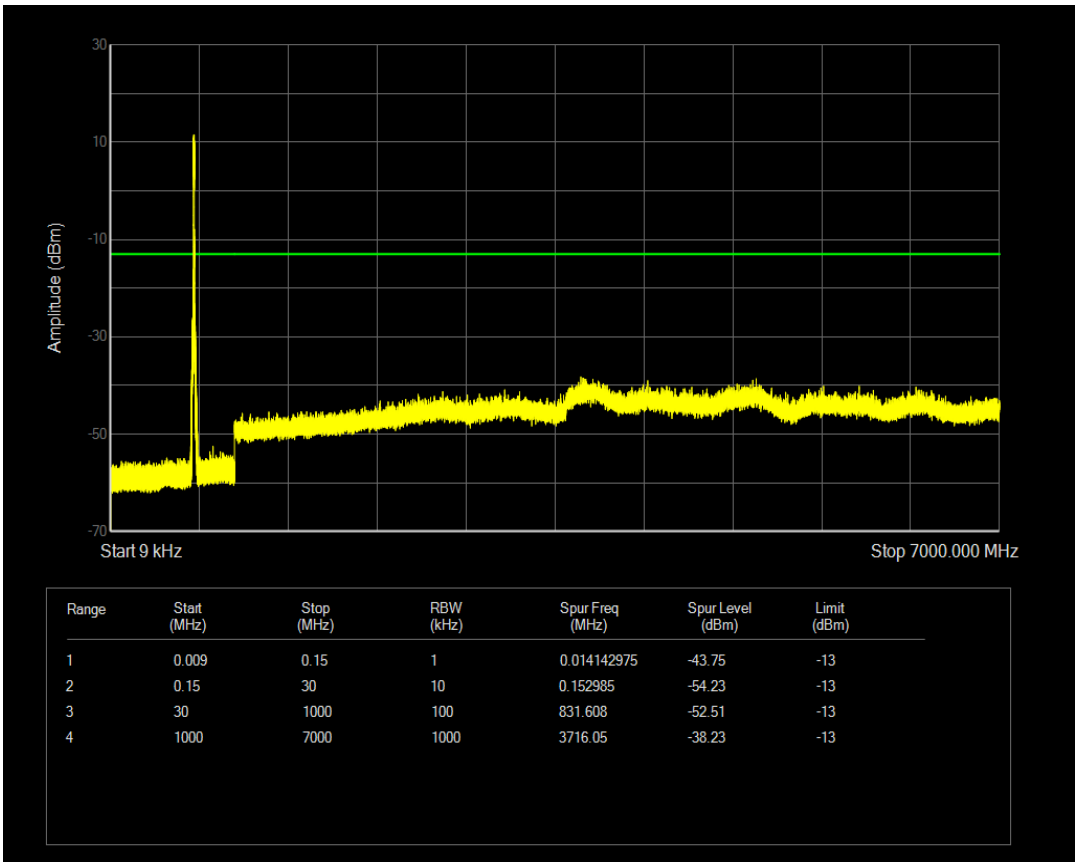

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.0093525 | -45.09 | -13 |
| 2 | 0.15 | 30 | 10 | 0.15 | -54.4 | -13 |
| 3 | 30 | 1000 | 100 | 894.43975 | -53.12 | -13 |
| 4 | 1000 | 7000 | 1000 | 3703.6 | -37.25 | -13 |

n71 SCS=30kHz DFT_QPSK BW=10MHz Channel=133600 RB=1@23



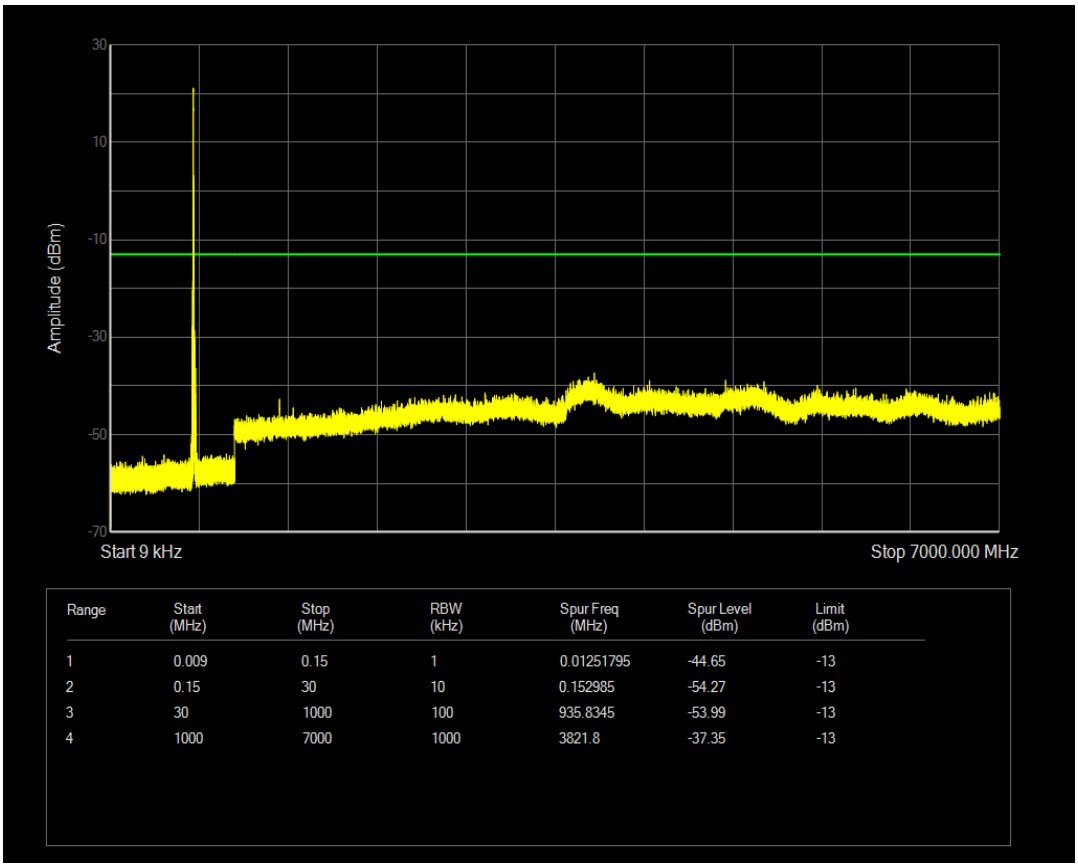

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.01291275 | -44.33 | -13 |
| 2 | 0.15 | 30 | 10 | 0.15970125 | -54.24 | -13 |
| 3 | 30 | 1000 | 100 | 451.1255 | -53.7 | -13 |
| 4 | 1000 | 7000 | 1000 | 3731.65 | -38.06 | -13 |

n71 SCS=30kHz DFT_QPSK BW=10MHz Channel=136100 RB=24@0



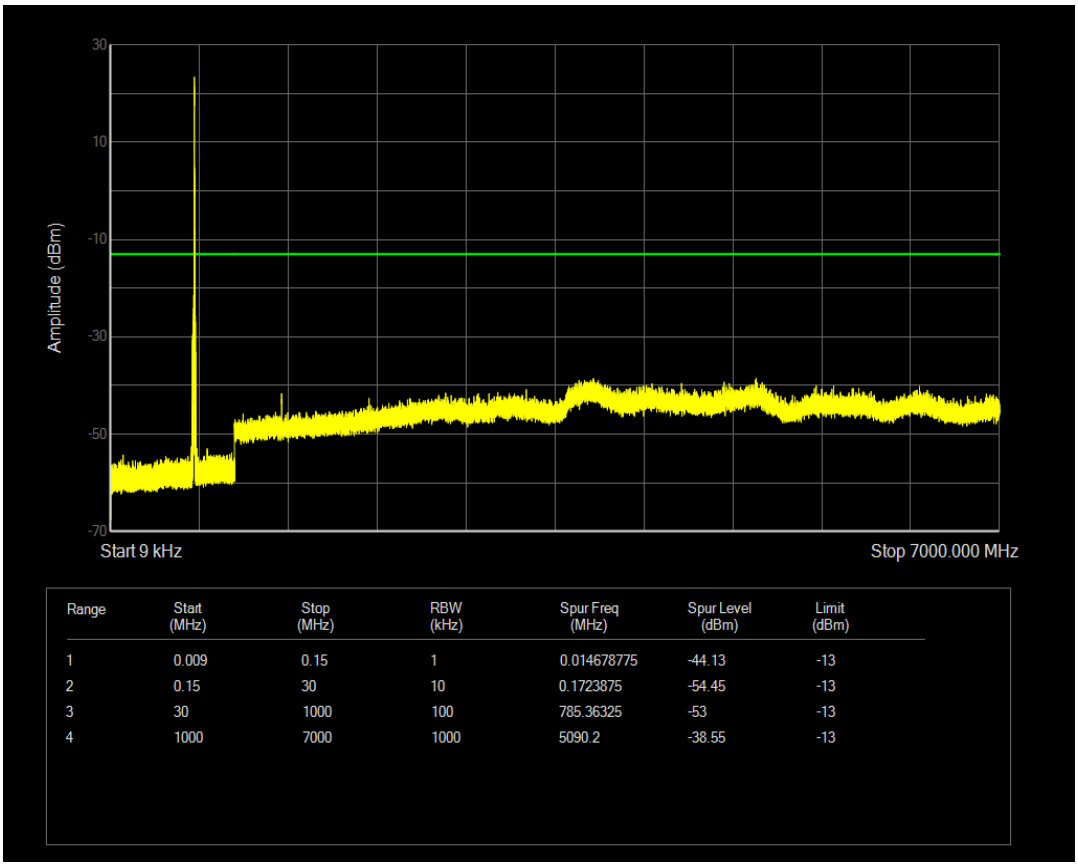

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.014142975 | -43.75 | -13 |
| 2 | 0.15 | 30 | 10 | 0.152985 | -54.23 | -13 |
| 3 | 30 | 1000 | 100 | 831.608 | -52.51 | -13 |
| 4 | 1000 | 7000 | 1000 | 3716.05 | -38.23 | -13 |

n71 SCS=30kHz DFT_QPSK BW=10MHz Channel=136100 RB=1@0



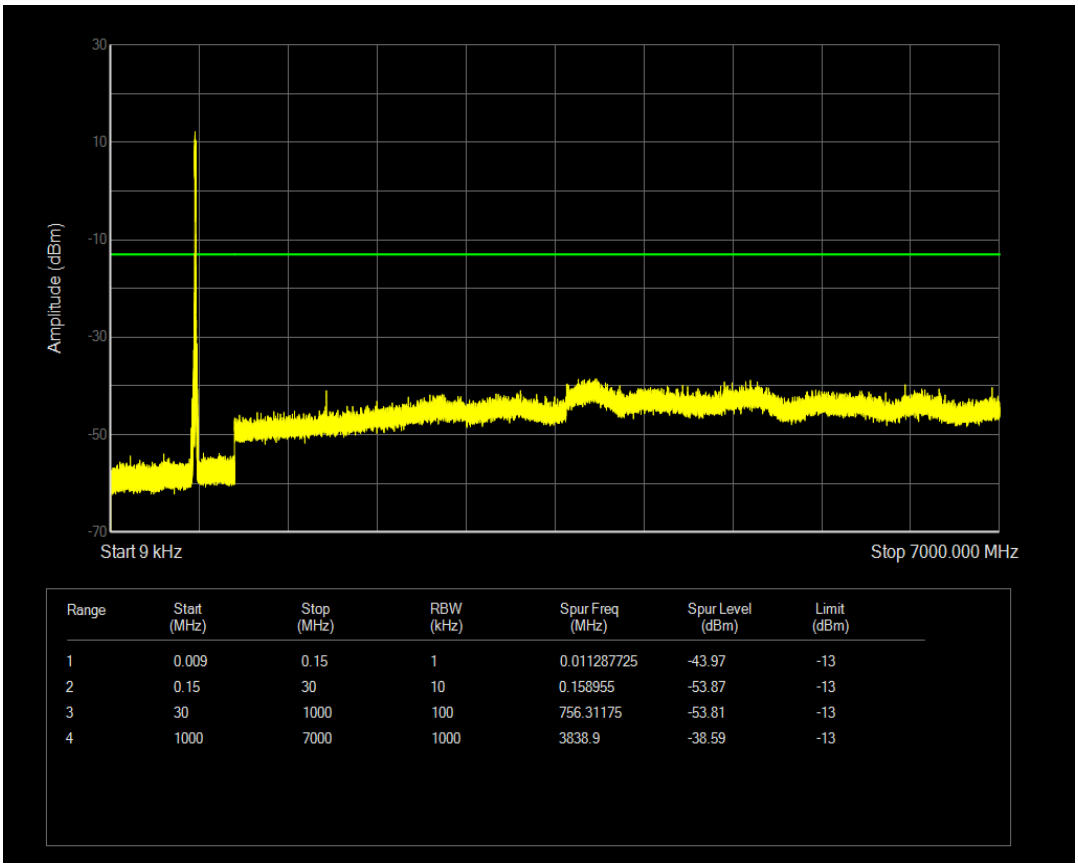

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.01251795 | -44.65 | -13 |
| 2 | 0.15 | 30 | 10 | 0.152985 | -54.27 | -13 |
| 3 | 30 | 1000 | 100 | 935.8345 | -53.99 | -13 |
| 4 | 1000 | 7000 | 1000 | 3821.8 | -37.35 | -13 |

n71 SCS=30kHz DFT_QPSK BW=10MHz Channel=136100 RB=1@23



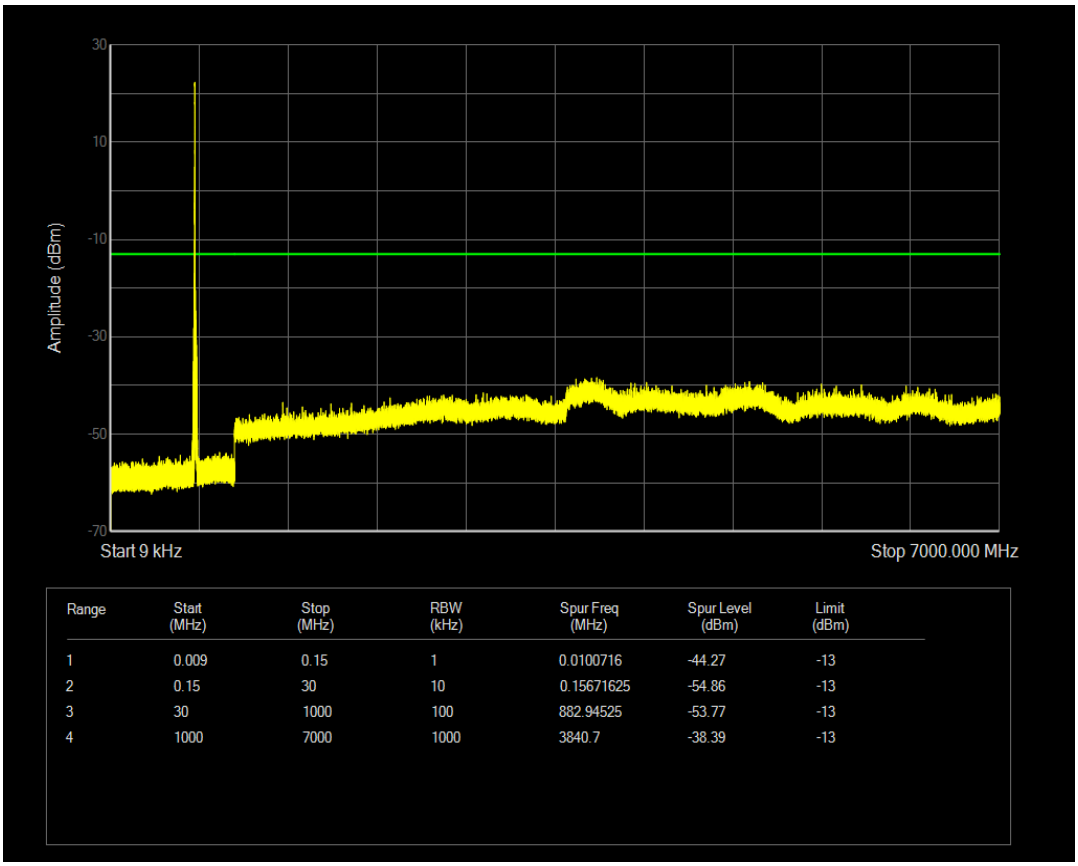

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.014678775 | -44.13 | -13 |
| 2 | 0.15 | 30 | 10 | 0.1723875 | -54.45 | -13 |
| 3 | 30 | 1000 | 100 | 785.36325 | -53 | -13 |
| 4 | 1000 | 7000 | 1000 | 5090.2 | -38.55 | -13 |

n71 SCS=30kHz DFT_QPSK BW=10MHz Channel=138600 RB=24@0



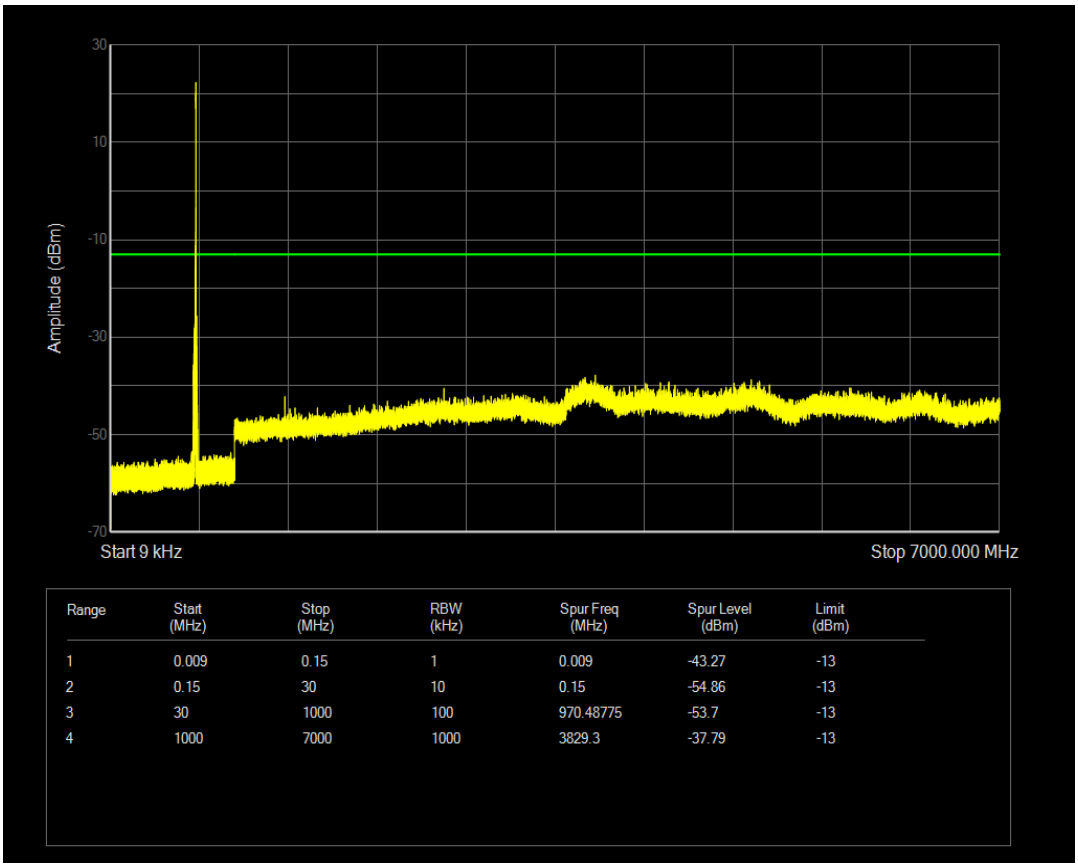

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.011287725 | -43.97 | -13 |
| 2 | 0.15 | 30 | 10 | 0.158955 | -53.87 | -13 |
| 3 | 30 | 1000 | 100 | 756.31175 | -53.81 | -13 |
| 4 | 1000 | 7000 | 1000 | 3838.9 | -38.59 | -13 |

n71 SCS=30kHz DFT_QPSK BW=10MHz Channel=138600 RB=1@0



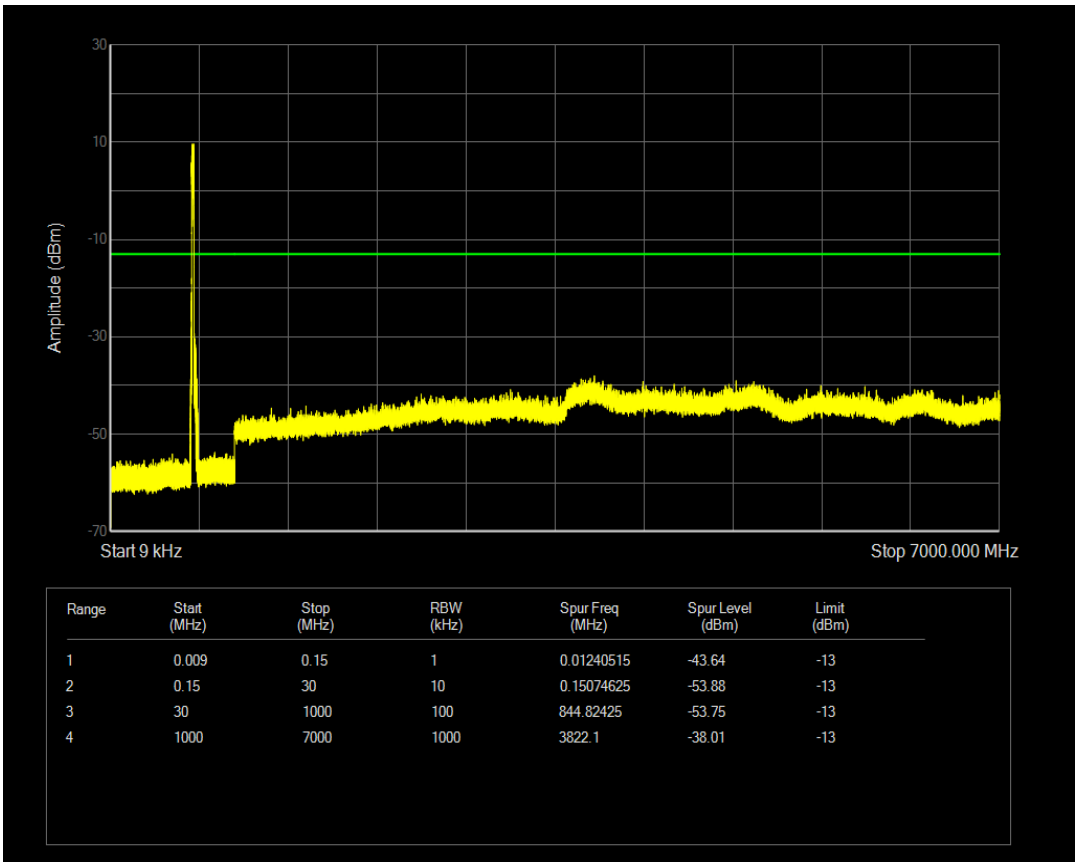

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.0100716 | -44.27 | -13 |
| 2 | 0.15 | 30 | 10 | 0.15671625 | -54.86 | -13 |
| 3 | 30 | 1000 | 100 | 882.94525 | -53.77 | -13 |
| 4 | 1000 | 7000 | 1000 | 3840.7 | -38.39 | -13 |

n71 SCS=30kHz DFT_QPSK BW=10MHz Channel=138600 RB=1@23



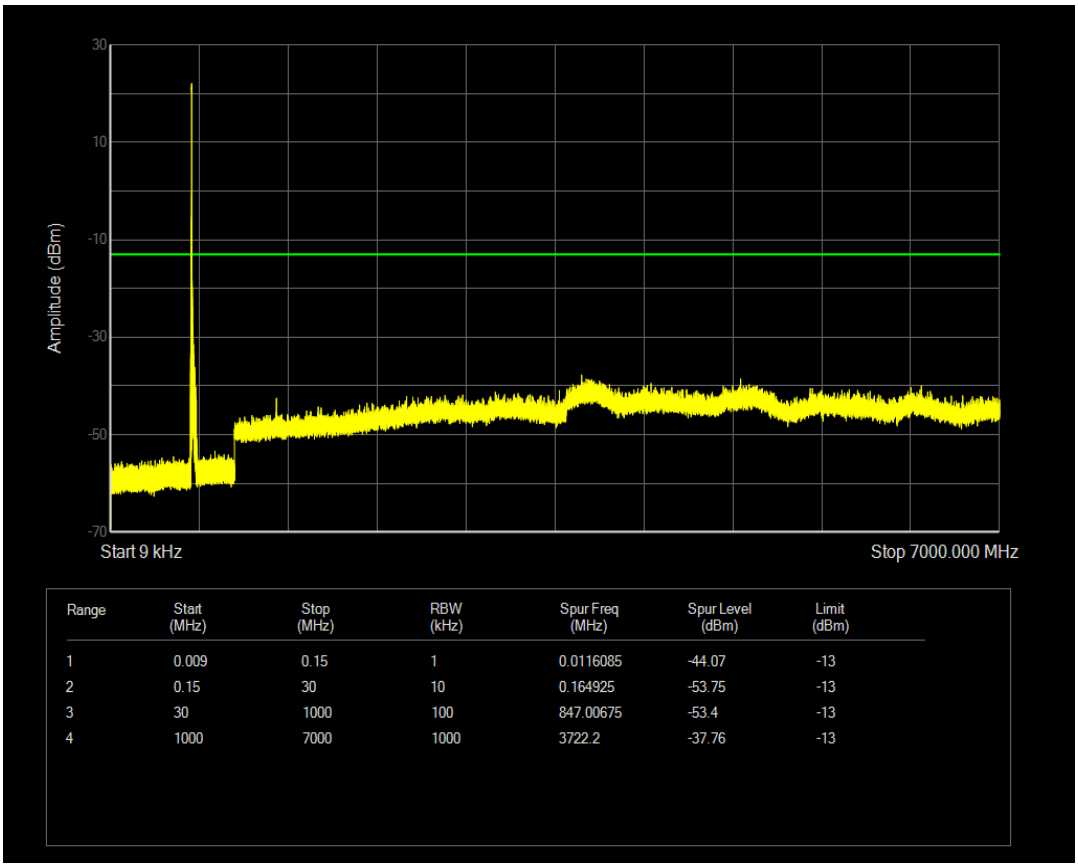

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.009 | -43.27 | -13 |
| 2 | 0.15 | 30 | 10 | 0.15 | -54.86 | -13 |
| 3 | 30 | 1000 | 100 | 970.48775 | -53.7 | -13 |
| 4 | 1000 | 7000 | 1000 | 3829.3 | -37.79 | -13 |

n71 SCS=30kHz DFT_QPSK BW=20MHz Channel=134600 RB=50@0



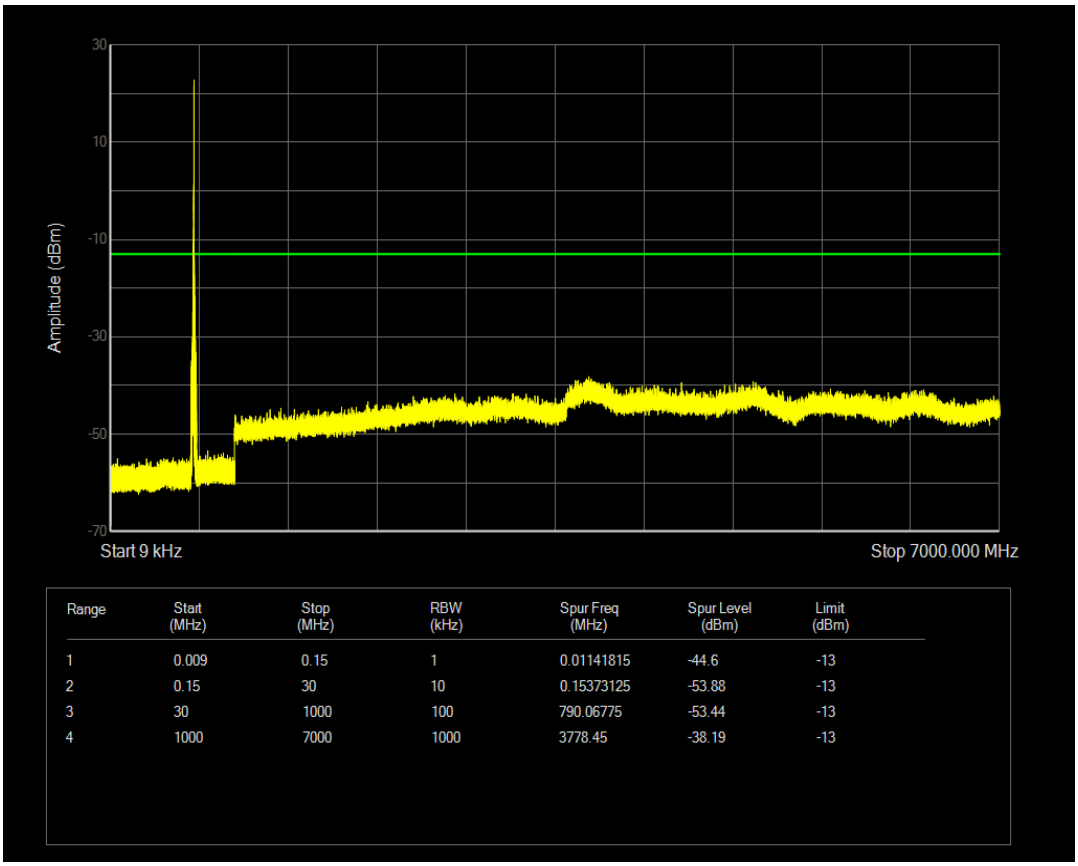

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.01240515 | -43.64 | -13 |
| 2 | 0.15 | 30 | 10 | 0.15074625 | -53.88 | -13 |
| 3 | 30 | 1000 | 100 | 844.82425 | -53.75 | -13 |
| 4 | 1000 | 7000 | 1000 | 3822.1 | -38.01 | -13 |

n71 SCS=30kHz DFT_QPSK BW=20MHz Channel=134600 RB=1@0



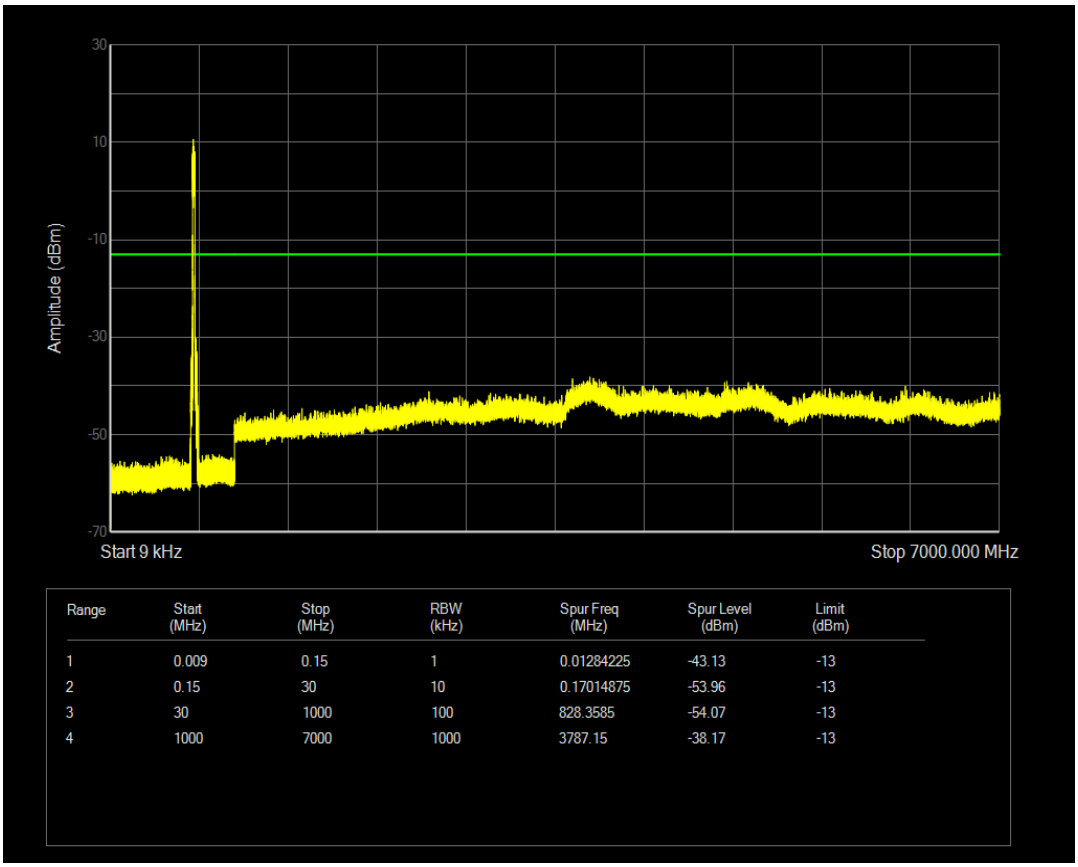

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.0116085 | -44.07 | -13 |
| 2 | 0.15 | 30 | 10 | 0.164925 | -53.75 | -13 |
| 3 | 30 | 1000 | 100 | 847.00675 | -53.4 | -13 |
| 4 | 1000 | 7000 | 1000 | 3722.2 | -37.76 | -13 |

n71 SCS=30kHz DFT_QPSK BW=20MHz Channel=134600 RB=1@50



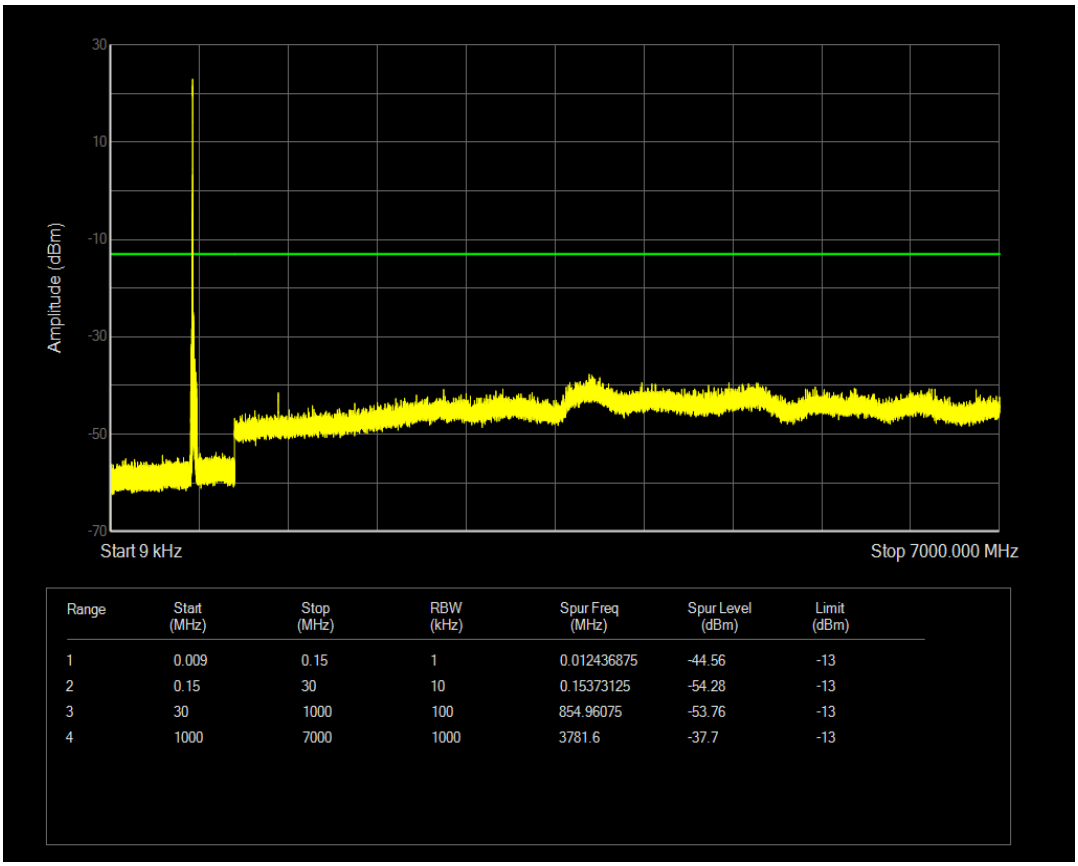

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.01141815 | -44.6 | -13 |
| 2 | 0.15 | 30 | 10 | 0.15373125 | -53.88 | -13 |
| 3 | 30 | 1000 | 100 | 790.06775 | -53.44 | -13 |
| 4 | 1000 | 7000 | 1000 | 3778.45 | -38.19 | -13 |

n71 SCS=30kHz DFT_QPSK BW=20MHz Channel=136100 RB=50@0



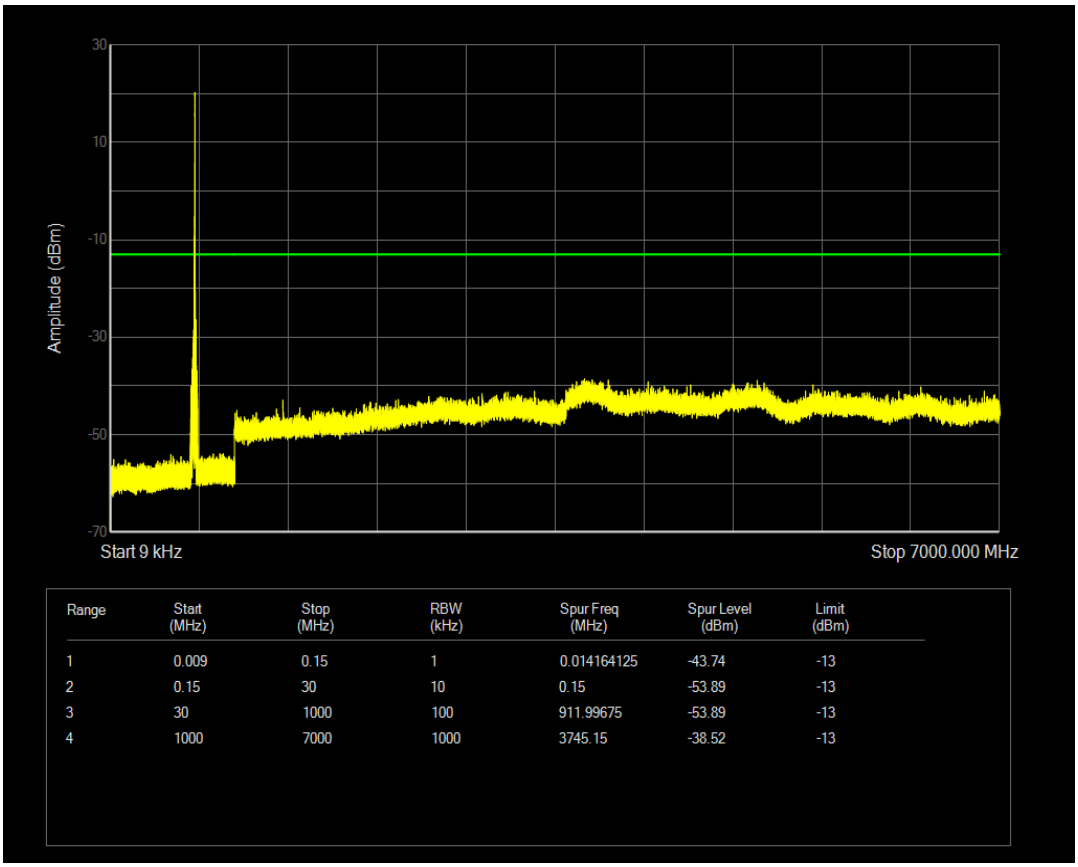

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.01284225 | -43.13 | -13 |
| 2 | 0.15 | 30 | 10 | 0.17014875 | -53.96 | -13 |
| 3 | 30 | 1000 | 100 | 828.3585 | -54.07 | -13 |
| 4 | 1000 | 7000 | 1000 | 3787.15 | -38.17 | -13 |

n71 SCS=30kHz DFT_QPSK BW=20MHz Channel=136100 RB=1@0



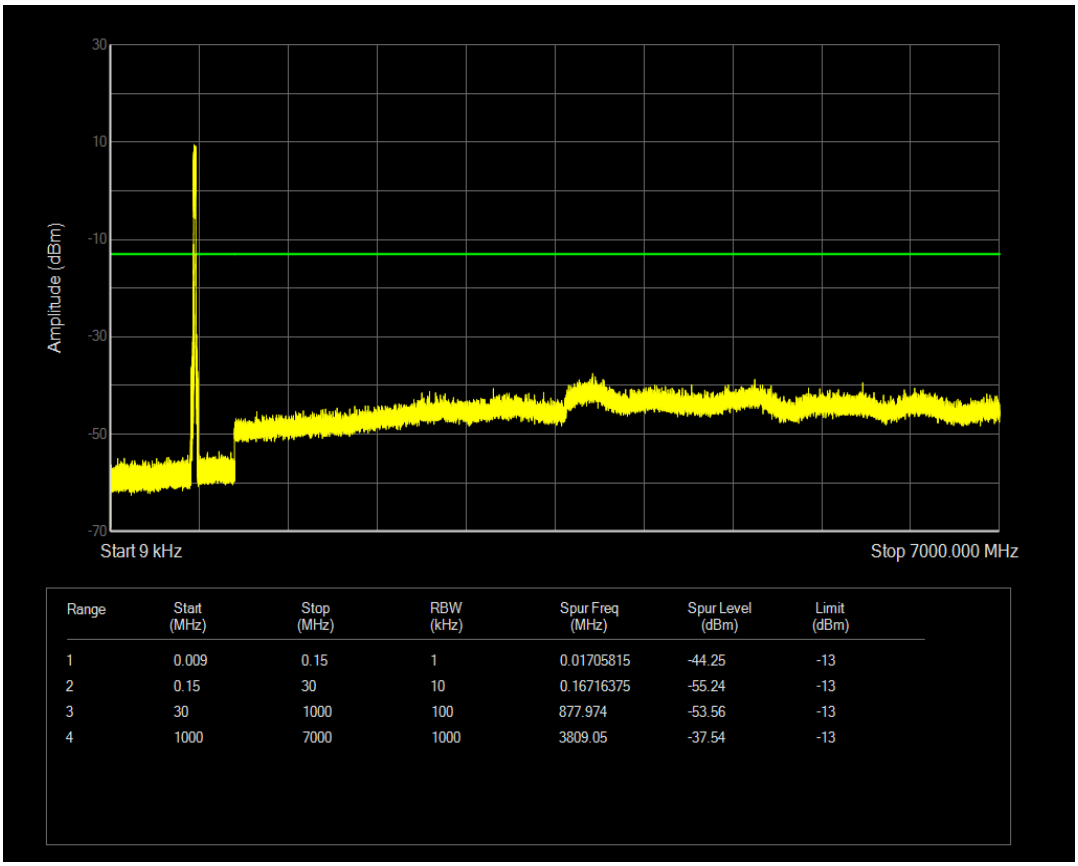

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.012436875 | -44.56 | -13 |
| 2 | 0.15 | 30 | 10 | 0.15373125 | -54.28 | -13 |
| 3 | 30 | 1000 | 100 | 854.96075 | -53.76 | -13 |
| 4 | 1000 | 7000 | 1000 | 3781.6 | -37.7 | -13 |

n71 SCS=30kHz DFT_QPSK BW=20MHz Channel=136100 RB=1@50



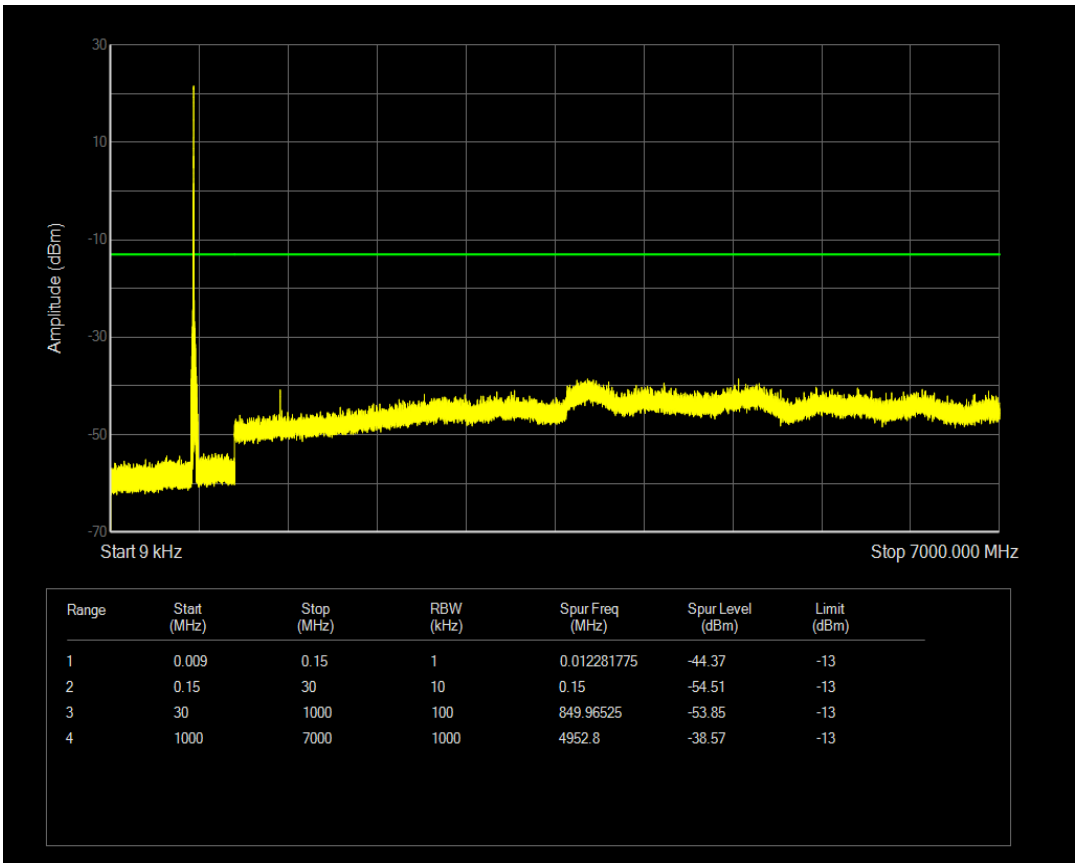

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.014164125 | -43.74 | -13 |
| 2 | 0.15 | 30 | 10 | 0.15 | -53.89 | -13 |
| 3 | 30 | 1000 | 100 | 911.99675 | -53.89 | -13 |
| 4 | 1000 | 7000 | 1000 | 3745.15 | -38.52 | -13 |

n71 SCS=30kHz DFT_QPSK BW=20MHz Channel=137600 RB=50@0



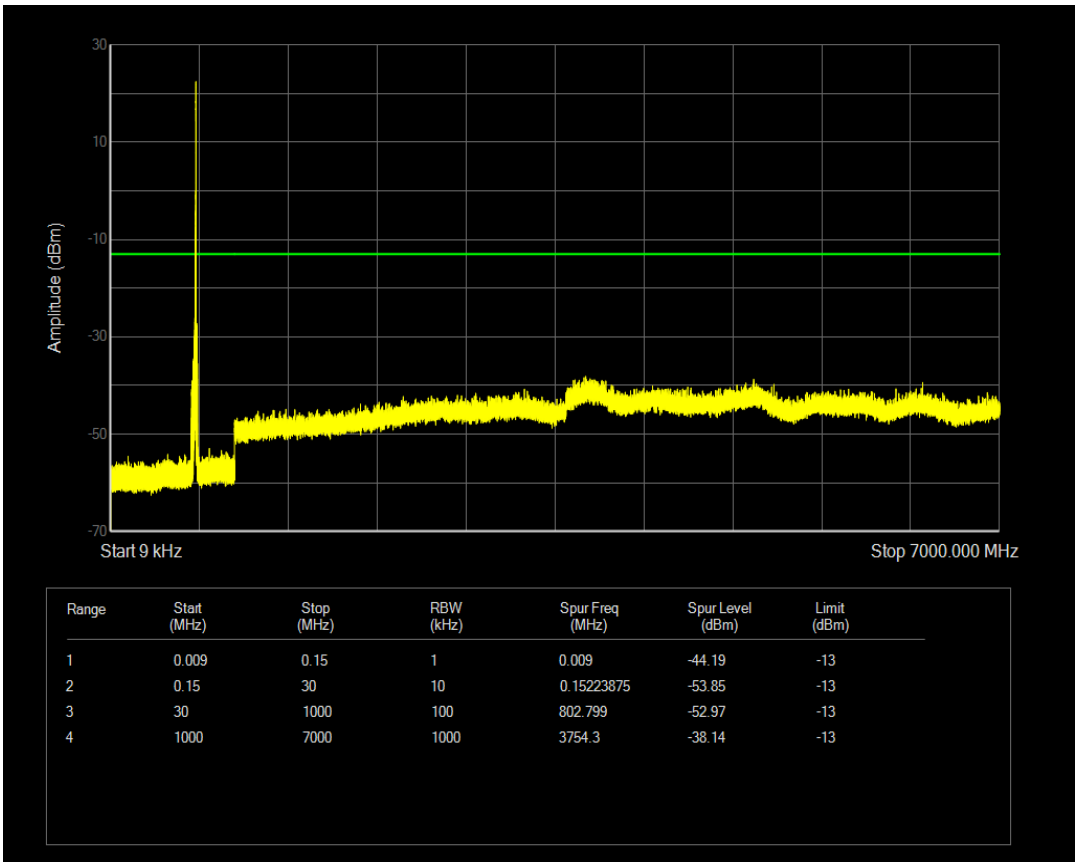

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.01705815 | -44.25 | -13 |
| 2 | 0.15 | 30 | 10 | 0.16716375 | -55.24 | -13 |
| 3 | 30 | 1000 | 100 | 877.974 | -53.56 | -13 |
| 4 | 1000 | 7000 | 1000 | 3809.05 | -37.54 | -13 |

n71 SCS=30kHz DFT_QPSK BW=20MHz Channel=137600 RB=1@0




| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.012281775 | -44.37 | -13 |
| 2 | 0.15 | 30 | 10 | 0.15 | -54.51 | -13 |
| 3 | 30 | 1000 | 100 | 849.96525 | -53.85 | -13 |
| 4 | 1000 | 7000 | 1000 | 4952.8 | -38.57 | -13 |

n71 SCS=30kHz DFT_QPSK BW=20MHz Channel=137600 RB=1@50




| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.009 | -44.19 | -13 |
| 2 | 0.15 | 30 | 10 | 0.15223875 | -53.85 | -13 |
| 3 | 30 | 1000 | 100 | 802.799 | -52.97 | -13 |
| 4 | 1000 | 7000 | 1000 | 3754.3 | -38.14 | -13 |