

## Conducted output power for NR FR1

| Band           | SCS<br>(kHz) | Bandwidth<br>(MHz) | UL<br>Channel | RB<br>Allocation | Modulation | Power<br>(dBm) | Gain<br>(dBm) | EIRP<br>(dBm) | EIRP<br>Limit<br>(dBm) | Verdict |
|----------------|--------------|--------------------|---------------|------------------|------------|----------------|---------------|---------------|------------------------|---------|
| n77(3700-3980) | 30           | 10                 | 647000        | 12@6             | DFT_BPSK   | 27.39          | -1.95         | 25.44         | 30                     | PASS    |
| n77(3700-3980) | 30           | 10                 | 647000        | 1@1              | DFT_BPSK   | 27.32          | -1.95         | 25.37         | 30                     | PASS    |
| n77(3700-3980) | 30           | 10                 | 647000        | 1@22             | DFT_BPSK   | 27.33          | -1.95         | 25.38         | 30                     | PASS    |
| n77(3700-3980) | 30           | 10                 | 647000        | 12@6             | DFT_QPSK   | 27.4           | -1.95         | 25.45         | 30                     | PASS    |
| n77(3700-3980) | 30           | 10                 | 647000        | 1@1              | DFT_QPSK   | 27.16          | -1.95         | 25.21         | 30                     | PASS    |
| n77(3700-3980) | 30           | 10                 | 647000        | 1@22             | DFT_QPSK   | 27.19          | -1.95         | 25.24         | 30                     | PASS    |
| n77(3700-3980) | 30           | 10                 | 647000        | 12@6             | DFT_QAM16  | 26.43          | -1.95         | 24.48         | 30                     | PASS    |
| n77(3700-3980) | 30           | 10                 | 647000        | 1@1              | DFT_QAM16  | 26.32          | -1.95         | 24.37         | 30                     | PASS    |
| n77(3700-3980) | 30           | 10                 | 647000        | 1@22             | DFT_QAM16  | 26.45          | -1.95         | 24.5          | 30                     | PASS    |
| n77(3700-3980) | 30           | 10                 | 647000        | 12@6             | DFT_QAM64  | 24.96          | -1.95         | 23.01         | 30                     | PASS    |
| n77(3700-3980) | 30           | 10                 | 647000        | 1@1              | DFT_QAM64  | 24.77          | -1.95         | 22.82         | 30                     | PASS    |
| n77(3700-3980) | 30           | 10                 | 647000        | 1@22             | DFT_QAM64  | 24.7           | -1.95         | 22.75         | 30                     | PASS    |
| n77(3700-3980) | 30           | 10                 | 647000        | 12@6             | DFT_QAM256 | 22.9           | -1.95         | 20.95         | 30                     | PASS    |
| n77(3700-3980) | 30           | 10                 | 647000        | 1@1              | DFT_QAM256 | 22.92          | -1.95         | 20.97         | 30                     | PASS    |
| n77(3700-3980) | 30           | 10                 | 647000        | 1@22             | DFT_QAM256 | 22.95          | -1.95         | 21            | 30                     | PASS    |
| n77(3700-3980) | 30           | 10                 | 647000        | 12@6             | CP_QPSK    | 25.8           | -1.95         | 23.85         | 30                     | PASS    |
| n77(3700-3980) | 30           | 10                 | 647000        | 1@1              | CP_QPSK    | 25.85          | -1.95         | 23.9          | 30                     | PASS    |
| n77(3700-3980) | 30           | 10                 | 647000        | 1@22             | CP_QPSK    | 25.88          | -1.95         | 23.93         | 30                     | PASS    |
| n77(3700-3980) | 30           | 10                 | 647000        | 12@6             | CP_QAM16   | 25.38          | -1.95         | 23.43         | 30                     | PASS    |
| n77(3700-3980) | 30           | 10                 | 647000        | 1@1              | CP_QAM16   | 25.17          | -1.95         | 23.22         | 30                     | PASS    |
| n77(3700-3980) | 30           | 10                 | 647000        | 1@22             | CP_QAM16   | 25.12          | -1.95         | 23.17         | 30                     | PASS    |
| n77(3700-3980) | 30           | 10                 | 647000        | 12@6             | CP_QAM64   | 23.91          | -1.95         | 21.96         | 30                     | PASS    |
| n77(3700-3980) | 30           | 10                 | 647000        | 1@1              | CP_QAM64   | 24.01          | -1.95         | 22.06         | 30                     | PASS    |
| n77(3700-3980) | 30           | 10                 | 647000        | 1@22             | CP_QAM64   | 24.04          | -1.95         | 22.09         | 30                     | PASS    |
| n77(3700-3980) | 30           | 10                 | 647000        | 12@6             | CP_QAM256  | 20.96          | -1.95         | 19.01         | 30                     | PASS    |
| n77(3700-3980) | 30           | 10                 | 647000        | 1@1              | CP_QAM256  | 21.53          | -1.95         | 19.58         | 30                     | PASS    |
| n77(3700-3980) | 30           | 10                 | 647000        | 1@22             | CP_QAM256  | 21.51          | -1.95         | 19.56         | 30                     | PASS    |
| n77(3700-3980) | 30           | 10                 | 656000        | 12@6             | DFT_BPSK   | 26.75          | -1.95         | 24.8          | 30                     | PASS    |
| n77(3700-3980) | 30           | 10                 | 656000        | 1@1              | DFT_BPSK   | 26.6           | -1.95         | 24.65         | 30                     | PASS    |
| n77(3700-3980) | 30           | 10                 | 656000        | 1@22             | DFT_BPSK   | 26.69          | -1.95         | 24.74         | 30                     | PASS    |
| n77(3700-3980) | 30           | 10                 | 656000        | 12@6             | DFT_QPSK   | 26.77          | -1.95         | 24.82         | 30                     | PASS    |
| n77(3700-3980) | 30           | 10                 | 656000        | 1@1              | DFT_QPSK   | 26.51          | -1.95         | 24.56         | 30                     | PASS    |
| n77(3700-3980) | 30           | 10                 | 656000        | 1@22             | DFT_QPSK   | 26.52          | -1.95         | 24.57         | 30                     | PASS    |
| n77(3700-3980) | 30           | 10                 | 656000        | 12@6             | DFT_QAM16  | 25.74          | -1.95         | 23.79         | 30                     | PASS    |
| n77(3700-3980) | 30           | 10                 | 656000        | 1@1              | DFT_QAM16  | 25.82          | -1.95         | 23.87         | 30                     | PASS    |
| n77(3700-3980) | 30           | 10                 | 656000        | 1@22             | DFT_QAM16  | 25.84          | -1.95         | 23.89         | 30                     | PASS    |

|                |    |    |        |      |            |       |       |       |    |      |
|----------------|----|----|--------|------|------------|-------|-------|-------|----|------|
| n77(3700-3980) | 30 | 10 | 656000 | 12@6 | DFT_QAM64  | 24.23 | -1.95 | 22.28 | 30 | PASS |
| n77(3700-3980) | 30 | 10 | 656000 | 1@1  | DFT_QAM64  | 24.01 | -1.95 | 22.06 | 30 | PASS |
| n77(3700-3980) | 30 | 10 | 656000 | 1@22 | DFT_QAM64  | 24.37 | -1.95 | 22.42 | 30 | PASS |
| n77(3700-3980) | 30 | 10 | 656000 | 12@6 | DFT_QAM256 | 22.23 | -1.95 | 20.28 | 30 | PASS |
| n77(3700-3980) | 30 | 10 | 656000 | 1@1  | DFT_QAM256 | 21.74 | -1.95 | 19.79 | 30 | PASS |
| n77(3700-3980) | 30 | 10 | 656000 | 1@22 | DFT_QAM256 | 21.87 | -1.95 | 19.92 | 30 | PASS |
| n77(3700-3980) | 30 | 10 | 656000 | 12@6 | CP_QPSK    | 25.07 | -1.95 | 23.12 | 30 | PASS |
| n77(3700-3980) | 30 | 10 | 656000 | 1@1  | CP_QPSK    | 25.27 | -1.95 | 23.32 | 30 | PASS |
| n77(3700-3980) | 30 | 10 | 656000 | 1@22 | CP_QPSK    | 25.27 | -1.95 | 23.32 | 30 | PASS |
| n77(3700-3980) | 30 | 10 | 656000 | 12@6 | CP_QAM16   | 24.76 | -1.95 | 22.81 | 30 | PASS |
| n77(3700-3980) | 30 | 10 | 656000 | 1@1  | CP_QAM16   | 24.84 | -1.95 | 22.89 | 30 | PASS |
| n77(3700-3980) | 30 | 10 | 656000 | 1@22 | CP_QAM16   | 24.9  | -1.95 | 22.95 | 30 | PASS |
| n77(3700-3980) | 30 | 10 | 656000 | 12@6 | CP_QAM64   | 23.29 | -1.95 | 21.34 | 30 | PASS |
| n77(3700-3980) | 30 | 10 | 656000 | 1@1  | CP_QAM64   | 23.79 | -1.95 | 21.84 | 30 | PASS |
| n77(3700-3980) | 30 | 10 | 656000 | 1@22 | CP_QAM64   | 23.87 | -1.95 | 21.92 | 30 | PASS |
| n77(3700-3980) | 30 | 10 | 656000 | 12@6 | CP_QAM256  | 20.58 | -1.95 | 18.63 | 30 | PASS |
| n77(3700-3980) | 30 | 10 | 656000 | 1@1  | CP_QAM256  | 20.87 | -1.95 | 18.92 | 30 | PASS |
| n77(3700-3980) | 30 | 10 | 656000 | 1@22 | CP_QAM256  | 20.63 | -1.95 | 18.68 | 30 | PASS |
| n77(3700-3980) | 30 | 10 | 665000 | 12@6 | DFT_BPSK   | 27.37 | -1.95 | 25.42 | 30 | PASS |
| n77(3700-3980) | 30 | 10 | 665000 | 1@1  | DFT_BPSK   | 27.19 | -1.95 | 25.24 | 30 | PASS |
| n77(3700-3980) | 30 | 10 | 665000 | 1@22 | DFT_BPSK   | 27.34 | -1.95 | 25.39 | 30 | PASS |
| n77(3700-3980) | 30 | 10 | 665000 | 12@6 | DFT_QPSK   | 27.36 | -1.95 | 25.41 | 30 | PASS |
| n77(3700-3980) | 30 | 10 | 665000 | 1@1  | DFT_QPSK   | 27.11 | -1.95 | 25.16 | 30 | PASS |
| n77(3700-3980) | 30 | 10 | 665000 | 1@22 | DFT_QPSK   | 27.16 | -1.95 | 25.21 | 30 | PASS |
| n77(3700-3980) | 30 | 10 | 665000 | 12@6 | DFT_QAM16  | 26.42 | -1.95 | 24.47 | 30 | PASS |
| n77(3700-3980) | 30 | 10 | 665000 | 1@1  | DFT_QAM16  | 26.36 | -1.95 | 24.41 | 30 | PASS |
| n77(3700-3980) | 30 | 10 | 665000 | 1@22 | DFT_QAM16  | 26.58 | -1.95 | 24.63 | 30 | PASS |
| n77(3700-3980) | 30 | 10 | 665000 | 12@6 | DFT_QAM64  | 24.95 | -1.95 | 23    | 30 | PASS |
| n77(3700-3980) | 30 | 10 | 665000 | 1@1  | DFT_QAM64  | 24.65 | -1.95 | 22.7  | 30 | PASS |
| n77(3700-3980) | 30 | 10 | 665000 | 1@22 | DFT_QAM64  | 24.95 | -1.95 | 23    | 30 | PASS |
| n77(3700-3980) | 30 | 10 | 665000 | 12@6 | DFT_QAM256 | 22.81 | -1.95 | 20.86 | 30 | PASS |
| n77(3700-3980) | 30 | 10 | 665000 | 1@1  | DFT_QAM256 | 22.4  | -1.95 | 20.45 | 30 | PASS |
| n77(3700-3980) | 30 | 10 | 665000 | 1@22 | DFT_QAM256 | 22.92 | -1.95 | 20.97 | 30 | PASS |
| n77(3700-3980) | 30 | 10 | 665000 | 12@6 | CP_QPSK    | 25.85 | -1.95 | 23.9  | 30 | PASS |
| n77(3700-3980) | 30 | 10 | 665000 | 1@1  | CP_QPSK    | 25.77 | -1.95 | 23.82 | 30 | PASS |
| n77(3700-3980) | 30 | 10 | 665000 | 1@22 | CP_QPSK    | 25.87 | -1.95 | 23.92 | 30 | PASS |
| n77(3700-3980) | 30 | 10 | 665000 | 12@6 | CP_QAM16   | 25.53 | -1.95 | 23.58 | 30 | PASS |
| n77(3700-3980) | 30 | 10 | 665000 | 1@1  | CP_QAM16   | 25.54 | -1.95 | 23.59 | 30 | PASS |
| n77(3700-3980) | 30 | 10 | 665000 | 1@22 | CP_QAM16   | 25.44 | -1.95 | 23.49 | 30 | PASS |
| n77(3700-3980) | 30 | 10 | 665000 | 12@6 | CP_QAM64   | 23.93 | -1.95 | 21.98 | 30 | PASS |
| n77(3700-3980) | 30 | 10 | 665000 | 1@1  | CP_QAM64   | 24.44 | -1.95 | 22.49 | 30 | PASS |
| n77(3700-3980) | 30 | 10 | 665000 | 1@22 | CP_QAM64   | 23.84 | -1.95 | 21.89 | 30 | PASS |
| n77(3700-3980) | 30 | 10 | 665000 | 12@6 | CP_QAM256  | 21.2  | -1.95 | 19.25 | 30 | PASS |
| n77(3700-3980) | 30 | 10 | 665000 | 1@1  | CP_QAM256  | 21.28 | -1.95 | 19.33 | 30 | PASS |

|                |    |    |        |      |            |       |       |       |    |      |
|----------------|----|----|--------|------|------------|-------|-------|-------|----|------|
| n77(3700-3980) | 30 | 10 | 665000 | 1@22 | CP_QAM256  | 21.62 | -1.95 | 19.67 | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 647168 | 18@9 | DFT_BPSK   | 27.36 | -1.95 | 25.41 | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 647168 | 1@1  | DFT_BPSK   | 27.24 | -1.95 | 25.29 | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 647168 | 1@36 | DFT_BPSK   | 27.14 | -1.95 | 25.19 | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 647168 | 18@9 | DFT_QPSK   | 27.26 | -1.95 | 25.31 | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 647168 | 1@1  | DFT_QPSK   | 27.02 | -1.95 | 25.07 | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 647168 | 1@36 | DFT_QPSK   | 27.08 | -1.95 | 25.13 | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 647168 | 18@9 | DFT_QAM16  | 26.31 | -1.95 | 24.36 | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 647168 | 1@1  | DFT_QAM16  | 26.5  | -1.95 | 24.55 | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 647168 | 1@36 | DFT_QAM16  | 26.45 | -1.95 | 24.5  | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 647168 | 18@9 | DFT_QAM64  | 24.84 | -1.95 | 22.89 | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 647168 | 1@1  | DFT_QAM64  | 24.61 | -1.95 | 22.66 | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 647168 | 1@36 | DFT_QAM64  | 24.61 | -1.95 | 22.66 | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 647168 | 18@9 | DFT_QAM256 | 22.82 | -1.95 | 20.87 | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 647168 | 1@1  | DFT_QAM256 | 22.99 | -1.95 | 21.04 | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 647168 | 1@36 | DFT_QAM256 | 23.03 | -1.95 | 21.08 | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 647168 | 19@9 | CP_QPSK    | 25.8  | -1.95 | 23.85 | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 647168 | 1@1  | CP_QPSK    | 25.6  | -1.95 | 23.65 | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 647168 | 1@36 | CP_QPSK    | 25.5  | -1.95 | 23.55 | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 647168 | 19@9 | CP_QAM16   | 25.29 | -1.95 | 23.34 | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 647168 | 1@1  | CP_QAM16   | 25.34 | -1.95 | 23.39 | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 647168 | 1@36 | CP_QAM16   | 25.31 | -1.95 | 23.36 | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 647168 | 19@9 | CP_QAM64   | 23.76 | -1.95 | 21.81 | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 647168 | 1@1  | CP_QAM64   | 23.7  | -1.95 | 21.75 | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 647168 | 1@36 | CP_QAM64   | 23.68 | -1.95 | 21.73 | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 647168 | 19@9 | CP_QAM256  | 20.92 | -1.95 | 18.97 | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 647168 | 1@1  | CP_QAM256  | 21.5  | -1.95 | 19.55 | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 647168 | 1@36 | CP_QAM256  | 21.53 | -1.95 | 19.58 | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 656000 | 18@9 | DFT_BPSK   | 26.64 | -1.95 | 24.69 | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 656000 | 1@1  | DFT_BPSK   | 26.68 | -1.95 | 24.73 | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 656000 | 1@36 | DFT_BPSK   | 26.85 | -1.95 | 24.9  | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 656000 | 18@9 | DFT_QPSK   | 26.66 | -1.95 | 24.71 | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 656000 | 1@1  | DFT_QPSK   | 26.42 | -1.95 | 24.47 | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 656000 | 1@36 | DFT_QPSK   | 26.73 | -1.95 | 24.78 | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 656000 | 18@9 | DFT_QAM16  | 25.77 | -1.95 | 23.82 | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 656000 | 1@1  | DFT_QAM16  | 25.5  | -1.95 | 23.55 | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 656000 | 1@36 | DFT_QAM16  | 26.24 | -1.95 | 24.29 | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 656000 | 18@9 | DFT_QAM64  | 24.28 | -1.95 | 22.33 | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 656000 | 1@1  | DFT_QAM64  | 24.34 | -1.95 | 22.39 | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 656000 | 1@36 | DFT_QAM64  | 24.51 | -1.95 | 22.56 | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 656000 | 18@9 | DFT_QAM256 | 22.24 | -1.95 | 20.29 | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 656000 | 1@1  | DFT_QAM256 | 21.89 | -1.95 | 19.94 | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 656000 | 1@36 | DFT_QAM256 | 22.74 | -1.95 | 20.79 | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 656000 | 19@9 | CP_QPSK    | 25.19 | -1.95 | 23.24 | 30 | PASS |

|                |    |    |        |       |            |       |       |       |    |      |
|----------------|----|----|--------|-------|------------|-------|-------|-------|----|------|
| n77(3700-3980) | 30 | 15 | 656000 | 1@1   | CP_QPSK    | 25.06 | -1.95 | 23.11 | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 656000 | 1@36  | CP_QPSK    | 25.38 | -1.95 | 23.43 | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 656000 | 19@9  | CP_QAM16   | 24.64 | -1.95 | 22.69 | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 656000 | 1@1   | CP_QAM16   | 24.52 | -1.95 | 22.57 | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 656000 | 1@36  | CP_QAM16   | 25.18 | -1.95 | 23.23 | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 656000 | 19@9  | CP_QAM64   | 23.23 | -1.95 | 21.28 | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 656000 | 1@1   | CP_QAM64   | 23.57 | -1.95 | 21.62 | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 656000 | 1@36  | CP_QAM64   | 23.97 | -1.95 | 22.02 | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 656000 | 19@9  | CP_QAM256  | 20.48 | -1.95 | 18.53 | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 656000 | 1@1   | CP_QAM256  | 20.76 | -1.95 | 18.81 | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 656000 | 1@36  | CP_QAM256  | 20.9  | -1.95 | 18.95 | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 664832 | 18@9  | DFT_BPSK   | 27.4  | -1.95 | 25.45 | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 664832 | 1@1   | DFT_BPSK   | 27.13 | -1.95 | 25.18 | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 664832 | 1@36  | DFT_BPSK   | 27.39 | -1.95 | 25.44 | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 664832 | 18@9  | DFT_QPSK   | 27.36 | -1.95 | 25.41 | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 664832 | 1@1   | DFT_QPSK   | 26.87 | -1.95 | 24.92 | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 664832 | 1@36  | DFT_QPSK   | 27.34 | -1.95 | 25.39 | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 664832 | 18@9  | DFT_QAM16  | 26.42 | -1.95 | 24.47 | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 664832 | 1@1   | DFT_QAM16  | 25.95 | -1.95 | 24    | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 664832 | 1@36  | DFT_QAM16  | 26.77 | -1.95 | 24.82 | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 664832 | 18@9  | DFT_QAM64  | 25.04 | -1.95 | 23.09 | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 664832 | 1@1   | DFT_QAM64  | 24.78 | -1.95 | 22.83 | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 664832 | 1@36  | DFT_QAM64  | 25.1  | -1.95 | 23.15 | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 664832 | 18@9  | DFT_QAM256 | 22.91 | -1.95 | 20.96 | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 664832 | 1@1   | DFT_QAM256 | 22.31 | -1.95 | 20.36 | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 664832 | 1@36  | DFT_QAM256 | 23.25 | -1.95 | 21.3  | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 664832 | 19@9  | CP_QPSK    | 25.88 | -1.95 | 23.93 | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 664832 | 1@1   | CP_QPSK    | 25.69 | -1.95 | 23.74 | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 664832 | 1@36  | CP_QPSK    | 25.86 | -1.95 | 23.91 | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 664832 | 19@9  | CP_QAM16   | 25.32 | -1.95 | 23.37 | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 664832 | 1@1   | CP_QAM16   | 25.33 | -1.95 | 23.38 | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 664832 | 1@36  | CP_QAM16   | 25.34 | -1.95 | 23.39 | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 664832 | 19@9  | CP_QAM64   | 23.91 | -1.95 | 21.96 | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 664832 | 1@1   | CP_QAM64   | 24.03 | -1.95 | 22.08 | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 664832 | 1@36  | CP_QAM64   | 24.59 | -1.95 | 22.64 | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 664832 | 19@9  | CP_QAM256  | 21.04 | -1.95 | 19.09 | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 664832 | 1@1   | CP_QAM256  | 21.05 | -1.95 | 19.1  | 30 | PASS |
| n77(3700-3980) | 30 | 15 | 664832 | 1@36  | CP_QAM256  | 21.27 | -1.95 | 19.32 | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 647334 | 25@12 | DFT_BPSK   | 27.25 | -1.95 | 25.3  | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 647334 | 1@1   | DFT_BPSK   | 27.18 | -1.95 | 25.23 | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 647334 | 1@49  | DFT_BPSK   | 27.19 | -1.95 | 25.24 | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 647334 | 25@12 | DFT_QPSK   | 27.39 | -1.95 | 25.44 | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 647334 | 1@1   | DFT_QPSK   | 27.25 | -1.95 | 25.3  | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 647334 | 1@49  | DFT_QPSK   | 27.17 | -1.95 | 25.22 | 30 | PASS |

|                |    |    |        |       |            |       |       |       |    |      |
|----------------|----|----|--------|-------|------------|-------|-------|-------|----|------|
| n77(3700-3980) | 30 | 20 | 647334 | 25@12 | DFT_QAM16  | 26.39 | -1.95 | 24.44 | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 647334 | 1@1   | DFT_QAM16  | 26.64 | -1.95 | 24.69 | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 647334 | 1@49  | DFT_QAM16  | 26.12 | -1.95 | 24.17 | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 647334 | 25@12 | DFT_QAM64  | 24.9  | -1.95 | 22.95 | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 647334 | 1@1   | DFT_QAM64  | 24.96 | -1.95 | 23.01 | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 647334 | 1@49  | DFT_QAM64  | 24.66 | -1.95 | 22.71 | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 647334 | 25@12 | DFT_QAM256 | 23    | -1.95 | 21.05 | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 647334 | 1@1   | DFT_QAM256 | 22.59 | -1.95 | 20.64 | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 647334 | 1@49  | DFT_QAM256 | 22.61 | -1.95 | 20.66 | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 647334 | 25@12 | CP_QPSK    | 25.78 | -1.95 | 23.83 | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 647334 | 1@1   | CP_QPSK    | 25.79 | -1.95 | 23.84 | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 647334 | 1@49  | CP_QPSK    | 25.77 | -1.95 | 23.82 | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 647334 | 25@12 | CP_QAM16   | 25.48 | -1.95 | 23.53 | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 647334 | 1@1   | CP_QAM16   | 25.15 | -1.95 | 23.2  | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 647334 | 1@49  | CP_QAM16   | 25.09 | -1.95 | 23.14 | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 647334 | 25@12 | CP_QAM64   | 23.93 | -1.95 | 21.98 | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 647334 | 1@1   | CP_QAM64   | 24.08 | -1.95 | 22.13 | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 647334 | 1@49  | CP_QAM64   | 24.35 | -1.95 | 22.4  | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 647334 | 25@12 | CP_QAM256  | 21.13 | -1.95 | 19.18 | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 647334 | 1@1   | CP_QAM256  | 21.17 | -1.95 | 19.22 | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 647334 | 1@49  | CP_QAM256  | 21.08 | -1.95 | 19.13 | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 656000 | 25@12 | DFT_BPSK   | 26.73 | -1.95 | 24.78 | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 656000 | 1@1   | DFT_BPSK   | 26.51 | -1.95 | 24.56 | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 656000 | 1@49  | DFT_BPSK   | 26.78 | -1.95 | 24.83 | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 656000 | 25@12 | DFT_QPSK   | 26.69 | -1.95 | 24.74 | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 656000 | 1@1   | DFT_QPSK   | 26.42 | -1.95 | 24.47 | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 656000 | 1@49  | DFT_QPSK   | 26.71 | -1.95 | 24.76 | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 656000 | 25@12 | DFT_QAM16  | 25.77 | -1.95 | 23.82 | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 656000 | 1@1   | DFT_QAM16  | 25.67 | -1.95 | 23.72 | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 656000 | 1@49  | DFT_QAM16  | 25.96 | -1.95 | 24.01 | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 656000 | 25@12 | DFT_QAM64  | 24.3  | -1.95 | 22.35 | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 656000 | 1@1   | DFT_QAM64  | 24.03 | -1.95 | 22.08 | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 656000 | 1@49  | DFT_QAM64  | 24.53 | -1.95 | 22.58 | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 656000 | 25@12 | DFT_QAM256 | 22.38 | -1.95 | 20.43 | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 656000 | 1@1   | DFT_QAM256 | 21.75 | -1.95 | 19.8  | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 656000 | 1@49  | DFT_QAM256 | 22.06 | -1.95 | 20.11 | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 656000 | 25@12 | CP_QPSK    | 25.16 | -1.95 | 23.21 | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 656000 | 1@1   | CP_QPSK    | 25.13 | -1.95 | 23.18 | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 656000 | 1@49  | CP_QPSK    | 25.31 | -1.95 | 23.36 | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 656000 | 25@12 | CP_QAM16   | 24.67 | -1.95 | 22.72 | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 656000 | 1@1   | CP_QAM16   | 24.5  | -1.95 | 22.55 | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 656000 | 1@49  | CP_QAM16   | 25.08 | -1.95 | 23.13 | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 656000 | 25@12 | CP_QAM64   | 23.4  | -1.95 | 21.45 | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 656000 | 1@1   | CP_QAM64   | 23.45 | -1.95 | 21.5  | 30 | PASS |

|                |    |    |        |       |            |       |       |       |    |      |
|----------------|----|----|--------|-------|------------|-------|-------|-------|----|------|
| n77(3700-3980) | 30 | 20 | 656000 | 1@49  | CP_QAM64   | 23.71 | -1.95 | 21.76 | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 656000 | 25@12 | CP_QAM256  | 20.4  | -1.95 | 18.45 | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 656000 | 1@1   | CP_QAM256  | 20.73 | -1.95 | 18.78 | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 656000 | 1@49  | CP_QAM256  | 20.92 | -1.95 | 18.97 | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 664666 | 25@12 | DFT_BPSK   | 27.32 | -1.95 | 25.37 | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 664666 | 1@1   | DFT_BPSK   | 26.77 | -1.95 | 24.82 | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 664666 | 1@49  | DFT_BPSK   | 27.24 | -1.95 | 25.29 | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 664666 | 25@12 | DFT_QPSK   | 27.25 | -1.95 | 25.3  | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 664666 | 1@1   | DFT_QPSK   | 26.66 | -1.95 | 24.71 | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 664666 | 1@49  | DFT_QPSK   | 27.26 | -1.95 | 25.31 | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 664666 | 25@12 | DFT_QAM16  | 26.3  | -1.95 | 24.35 | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 664666 | 1@1   | DFT_QAM16  | 25.99 | -1.95 | 24.04 | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 664666 | 1@49  | DFT_QAM16  | 26.24 | -1.95 | 24.29 | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 664666 | 25@12 | DFT_QAM64  | 24.76 | -1.95 | 22.81 | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 664666 | 1@1   | DFT_QAM64  | 24.29 | -1.95 | 22.34 | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 664666 | 1@49  | DFT_QAM64  | 24.75 | -1.95 | 22.8  | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 664666 | 25@12 | DFT_QAM256 | 22.89 | -1.95 | 20.94 | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 664666 | 1@1   | DFT_QAM256 | 22.03 | -1.95 | 20.08 | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 664666 | 1@49  | DFT_QAM256 | 23.19 | -1.95 | 21.24 | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 664666 | 25@12 | CP_QPSK    | 25.71 | -1.95 | 23.76 | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 664666 | 1@1   | CP_QPSK    | 25.26 | -1.95 | 23.31 | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 664666 | 1@49  | CP_QPSK    | 25.67 | -1.95 | 23.72 | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 664666 | 25@12 | CP_QAM16   | 25.36 | -1.95 | 23.41 | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 664666 | 1@1   | CP_QAM16   | 24.8  | -1.95 | 22.85 | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 664666 | 1@49  | CP_QAM16   | 25.21 | -1.95 | 23.26 | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 664666 | 25@12 | CP_QAM64   | 23.83 | -1.95 | 21.88 | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 664666 | 1@1   | CP_QAM64   | 24.04 | -1.95 | 22.09 | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 664666 | 1@49  | CP_QAM64   | 24.21 | -1.95 | 22.26 | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 664666 | 25@12 | CP_QAM256  | 21.05 | -1.95 | 19.1  | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 664666 | 1@1   | CP_QAM256  | 20.93 | -1.95 | 18.98 | 30 | PASS |
| n77(3700-3980) | 30 | 20 | 664666 | 1@49  | CP_QAM256  | 21.23 | -1.95 | 19.28 | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 647668 | 36@18 | DFT_BPSK   | 27.25 | -1.95 | 25.3  | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 647668 | 1@1   | DFT_BPSK   | 27.05 | -1.95 | 25.1  | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 647668 | 1@76  | DFT_BPSK   | 27.09 | -1.95 | 25.14 | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 647668 | 36@18 | DFT_QPSK   | 27.3  | -1.95 | 25.35 | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 647668 | 1@1   | DFT_QPSK   | 26.89 | -1.95 | 24.94 | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 647668 | 1@76  | DFT_QPSK   | 26.88 | -1.95 | 24.93 | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 647668 | 36@18 | DFT_QAM16  | 26.28 | -1.95 | 24.33 | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 647668 | 1@1   | DFT_QAM16  | 25.99 | -1.95 | 24.04 | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 647668 | 1@76  | DFT_QAM16  | 25.96 | -1.95 | 24.01 | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 647668 | 36@18 | DFT_QAM64  | 24.84 | -1.95 | 22.89 | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 647668 | 1@1   | DFT_QAM64  | 24.83 | -1.95 | 22.88 | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 647668 | 1@76  | DFT_QAM64  | 24.5  | -1.95 | 22.55 | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 647668 | 36@18 | DFT_QAM256 | 22.91 | -1.95 | 20.96 | 30 | PASS |

|                |    |    |        |       |            |       |       |       |    |      |
|----------------|----|----|--------|-------|------------|-------|-------|-------|----|------|
| n77(3700-3980) | 30 | 30 | 647668 | 1@1   | DFT_QAM256 | 22.33 | -1.95 | 20.38 | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 647668 | 1@76  | DFT_QAM256 | 22.43 | -1.95 | 20.48 | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 647668 | 39@19 | CP_QPSK    | 25.74 | -1.95 | 23.79 | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 647668 | 1@1   | CP_QPSK    | 25.37 | -1.95 | 23.42 | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 647668 | 1@76  | CP_QPSK    | 25.58 | -1.95 | 23.63 | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 647668 | 39@19 | CP_QAM16   | 25.32 | -1.95 | 23.37 | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 647668 | 1@1   | CP_QAM16   | 25.29 | -1.95 | 23.34 | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 647668 | 1@76  | CP_QAM16   | 24.92 | -1.95 | 22.97 | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 647668 | 39@19 | CP_QAM64   | 23.9  | -1.95 | 21.95 | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 647668 | 1@1   | CP_QAM64   | 23.89 | -1.95 | 21.94 | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 647668 | 1@76  | CP_QAM64   | 24.27 | -1.95 | 22.32 | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 647668 | 39@19 | CP_QAM256  | 20.97 | -1.95 | 19.02 | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 647668 | 1@1   | CP_QAM256  | 20.92 | -1.95 | 18.97 | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 647668 | 1@76  | CP_QAM256  | 20.95 | -1.95 | 19    | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 656000 | 36@18 | DFT_BPSK   | 26.65 | -1.95 | 24.7  | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 656000 | 1@1   | DFT_BPSK   | 26.41 | -1.95 | 24.46 | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 656000 | 1@76  | DFT_BPSK   | 26.81 | -1.95 | 24.86 | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 656000 | 36@18 | DFT_QPSK   | 26.61 | -1.95 | 24.66 | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 656000 | 1@1   | DFT_QPSK   | 26.2  | -1.95 | 24.25 | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 656000 | 1@76  | DFT_QPSK   | 26.56 | -1.95 | 24.61 | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 656000 | 36@18 | DFT_QAM16  | 25.68 | -1.95 | 23.73 | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 656000 | 1@1   | DFT_QAM16  | 25.79 | -1.95 | 23.84 | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 656000 | 1@76  | DFT_QAM16  | 26.11 | -1.95 | 24.16 | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 656000 | 36@18 | DFT_QAM64  | 24.22 | -1.95 | 22.27 | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 656000 | 1@1   | DFT_QAM64  | 24.1  | -1.95 | 22.15 | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 656000 | 1@76  | DFT_QAM64  | 24.41 | -1.95 | 22.46 | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 656000 | 36@18 | DFT_QAM256 | 22.27 | -1.95 | 20.32 | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 656000 | 1@1   | DFT_QAM256 | 21.62 | -1.95 | 19.67 | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 656000 | 1@76  | DFT_QAM256 | 22.45 | -1.95 | 20.5  | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 656000 | 39@19 | CP_QPSK    | 25.12 | -1.95 | 23.17 | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 656000 | 1@1   | CP_QPSK    | 24.7  | -1.95 | 22.75 | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 656000 | 1@76  | CP_QPSK    | 25.09 | -1.95 | 23.14 | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 656000 | 39@19 | CP_QAM16   | 24.71 | -1.95 | 22.76 | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 656000 | 1@1   | CP_QAM16   | 24.31 | -1.95 | 22.36 | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 656000 | 1@76  | CP_QAM16   | 24.63 | -1.95 | 22.68 | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 656000 | 39@19 | CP_QAM64   | 23.33 | -1.95 | 21.38 | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 656000 | 1@1   | CP_QAM64   | 23.23 | -1.95 | 21.28 | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 656000 | 1@76  | CP_QAM64   | 23.64 | -1.95 | 21.69 | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 656000 | 39@19 | CP_QAM256  | 20.42 | -1.95 | 18.47 | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 656000 | 1@1   | CP_QAM256  | 20.4  | -1.95 | 18.45 | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 656000 | 1@76  | CP_QAM256  | 20.67 | -1.95 | 18.72 | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 664332 | 36@18 | DFT_BPSK   | 26.94 | -1.95 | 24.99 | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 664332 | 1@1   | DFT_BPSK   | 26.44 | -1.95 | 24.49 | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 664332 | 1@76  | DFT_BPSK   | 27.25 | -1.95 | 25.3  | 30 | PASS |

|                |    |    |        |       |            |       |       |       |    |      |
|----------------|----|----|--------|-------|------------|-------|-------|-------|----|------|
| n77(3700-3980) | 30 | 30 | 664332 | 36@18 | DFT_QPSK   | 26.97 | -1.95 | 25.02 | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 664332 | 1@1   | DFT_QPSK   | 26.24 | -1.95 | 24.29 | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 664332 | 1@76  | DFT_QPSK   | 27.08 | -1.95 | 25.13 | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 664332 | 36@18 | DFT_QAM16  | 25.95 | -1.95 | 24    | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 664332 | 1@1   | DFT_QAM16  | 25.31 | -1.95 | 23.36 | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 664332 | 1@76  | DFT_QAM16  | 26.07 | -1.95 | 24.12 | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 664332 | 36@18 | DFT_QAM64  | 24.48 | -1.95 | 22.53 | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 664332 | 1@1   | DFT_QAM64  | 24.16 | -1.95 | 22.21 | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 664332 | 1@76  | DFT_QAM64  | 24.87 | -1.95 | 22.92 | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 664332 | 36@18 | DFT_QAM256 | 22.59 | -1.95 | 20.64 | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 664332 | 1@1   | DFT_QAM256 | 21.68 | -1.95 | 19.73 | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 664332 | 1@76  | DFT_QAM256 | 22.45 | -1.95 | 20.5  | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 664332 | 39@19 | CP_QPSK    | 25.45 | -1.95 | 23.5  | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 664332 | 1@1   | CP_QPSK    | 24.75 | -1.95 | 22.8  | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 664332 | 1@76  | CP_QPSK    | 25.64 | -1.95 | 23.69 | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 664332 | 39@19 | CP_QAM16   | 25.02 | -1.95 | 23.07 | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 664332 | 1@1   | CP_QAM16   | 24.68 | -1.95 | 22.73 | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 664332 | 1@76  | CP_QAM16   | 25.44 | -1.95 | 23.49 | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 664332 | 39@19 | CP_QAM64   | 23.56 | -1.95 | 21.61 | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 664332 | 1@1   | CP_QAM64   | 23.64 | -1.95 | 21.69 | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 664332 | 1@76  | CP_QAM64   | 24.11 | -1.95 | 22.16 | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 664332 | 39@19 | CP_QAM256  | 20.8  | -1.95 | 18.85 | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 664332 | 1@1   | CP_QAM256  | 20.55 | -1.95 | 18.6  | 30 | PASS |
| n77(3700-3980) | 30 | 30 | 664332 | 1@76  | CP_QAM256  | 21.31 | -1.95 | 19.36 | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 648000 | 50@25 | DFT_BPSK   | 27.29 | -1.95 | 25.34 | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 648000 | 1@1   | DFT_BPSK   | 26.94 | -1.95 | 24.99 | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 648000 | 1@104 | DFT_BPSK   | 26.91 | -1.95 | 24.96 | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 648000 | 50@25 | DFT_QPSK   | 27.32 | -1.95 | 25.37 | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 648000 | 1@1   | DFT_QPSK   | 26.85 | -1.95 | 24.9  | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 648000 | 1@104 | DFT_QPSK   | 26.83 | -1.95 | 24.88 | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 648000 | 50@25 | DFT_QAM16  | 26.26 | -1.95 | 24.31 | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 648000 | 1@1   | DFT_QAM16  | 25.8  | -1.95 | 23.85 | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 648000 | 1@104 | DFT_QAM16  | 25.79 | -1.95 | 23.84 | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 648000 | 50@25 | DFT_QAM64  | 24.82 | -1.95 | 22.87 | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 648000 | 1@1   | DFT_QAM64  | 24.33 | -1.95 | 22.38 | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 648000 | 1@104 | DFT_QAM64  | 24.64 | -1.95 | 22.69 | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 648000 | 50@25 | DFT_QAM256 | 22.9  | -1.95 | 20.95 | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 648000 | 1@1   | DFT_QAM256 | 22.26 | -1.95 | 20.31 | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 648000 | 1@104 | DFT_QAM256 | 22.2  | -1.95 | 20.25 | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 648000 | 53@26 | CP_QPSK    | 25.72 | -1.95 | 23.77 | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 648000 | 1@1   | CP_QPSK    | 25.42 | -1.95 | 23.47 | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 648000 | 1@104 | CP_QPSK    | 25.38 | -1.95 | 23.43 | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 648000 | 53@26 | CP_QAM16   | 25.13 | -1.95 | 23.18 | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 648000 | 1@1   | CP_QAM16   | 25.08 | -1.95 | 23.13 | 30 | PASS |

|                |    |    |        |       |            |       |       |       |    |      |
|----------------|----|----|--------|-------|------------|-------|-------|-------|----|------|
| n77(3700-3980) | 30 | 40 | 648000 | 1@104 | CP_QAM16   | 25.18 | -1.95 | 23.23 | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 648000 | 53@26 | CP_QAM64   | 23.8  | -1.95 | 21.85 | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 648000 | 1@1   | CP_QAM64   | 24    | -1.95 | 22.05 | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 648000 | 1@104 | CP_QAM64   | 23.8  | -1.95 | 21.85 | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 648000 | 53@26 | CP_QAM256  | 20.9  | -1.95 | 18.95 | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 648000 | 1@1   | CP_QAM256  | 20.68 | -1.95 | 18.73 | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 648000 | 1@104 | CP_QAM256  | 20.73 | -1.95 | 18.78 | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 656000 | 50@25 | DFT_BPSK   | 26.69 | -1.95 | 24.74 | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 656000 | 1@1   | DFT_BPSK   | 26.37 | -1.95 | 24.42 | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 656000 | 1@104 | DFT_BPSK   | 26.52 | -1.95 | 24.57 | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 656000 | 50@25 | DFT_QPSK   | 26.6  | -1.95 | 24.65 | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 656000 | 1@1   | DFT_QPSK   | 26.14 | -1.95 | 24.19 | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 656000 | 1@104 | DFT_QPSK   | 26.38 | -1.95 | 24.43 | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 656000 | 50@25 | DFT_QAM16  | 25.62 | -1.95 | 23.67 | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 656000 | 1@1   | DFT_QAM16  | 25.23 | -1.95 | 23.28 | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 656000 | 1@104 | DFT_QAM16  | 25.45 | -1.95 | 23.5  | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 656000 | 50@25 | DFT_QAM64  | 24.07 | -1.95 | 22.12 | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 656000 | 1@1   | DFT_QAM64  | 23.79 | -1.95 | 21.84 | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 656000 | 1@104 | DFT_QAM64  | 24.13 | -1.95 | 22.18 | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 656000 | 50@25 | DFT_QAM256 | 22.21 | -1.95 | 20.26 | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 656000 | 1@1   | DFT_QAM256 | 21.86 | -1.95 | 19.91 | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 656000 | 1@104 | DFT_QAM256 | 22.22 | -1.95 | 20.27 | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 656000 | 53@26 | CP_QPSK    | 25.04 | -1.95 | 23.09 | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 656000 | 1@1   | CP_QPSK    | 24.89 | -1.95 | 22.94 | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 656000 | 1@104 | CP_QPSK    | 25.16 | -1.95 | 23.21 | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 656000 | 53@26 | CP_QAM16   | 24.56 | -1.95 | 22.61 | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 656000 | 1@1   | CP_QAM16   | 24.2  | -1.95 | 22.25 | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 656000 | 1@104 | CP_QAM16   | 24.75 | -1.95 | 22.8  | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 656000 | 53@26 | CP_QAM64   | 23.22 | -1.95 | 21.27 | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 656000 | 1@1   | CP_QAM64   | 23.5  | -1.95 | 21.55 | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 656000 | 1@104 | CP_QAM64   | 23.83 | -1.95 | 21.88 | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 656000 | 53@26 | CP_QAM256  | 20.37 | -1.95 | 18.42 | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 656000 | 1@1   | CP_QAM256  | 20.23 | -1.95 | 18.28 | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 656000 | 1@104 | CP_QAM256  | 20.56 | -1.95 | 18.61 | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 664000 | 50@25 | DFT_BPSK   | 26.81 | -1.95 | 24.86 | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 664000 | 1@1   | DFT_BPSK   | 26.41 | -1.95 | 24.46 | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 664000 | 1@104 | DFT_BPSK   | 26.92 | -1.95 | 24.97 | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 664000 | 50@25 | DFT_QPSK   | 26.67 | -1.95 | 24.72 | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 664000 | 1@1   | DFT_QPSK   | 26.28 | -1.95 | 24.33 | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 664000 | 1@104 | DFT_QPSK   | 26.68 | -1.95 | 24.73 | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 664000 | 50@25 | DFT_QAM16  | 25.71 | -1.95 | 23.76 | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 664000 | 1@1   | DFT_QAM16  | 25.69 | -1.95 | 23.74 | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 664000 | 1@104 | DFT_QAM16  | 25.8  | -1.95 | 23.85 | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 664000 | 50@25 | DFT_QAM64  | 24.24 | -1.95 | 22.29 | 30 | PASS |

|                |    |    |        |       |            |       |       |       |    |      |
|----------------|----|----|--------|-------|------------|-------|-------|-------|----|------|
| n77(3700-3980) | 30 | 40 | 664000 | 1@1   | DFT_QAM64  | 23.87 | -1.95 | 21.92 | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 664000 | 1@104 | DFT_QAM64  | 24.6  | -1.95 | 22.65 | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 664000 | 50@25 | DFT_QAM256 | 22.34 | -1.95 | 20.39 | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 664000 | 1@1   | DFT_QAM256 | 21.66 | -1.95 | 19.71 | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 664000 | 1@104 | DFT_QAM256 | 22.89 | -1.95 | 20.94 | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 664000 | 53@26 | CP_QPSK    | 25.17 | -1.95 | 23.22 | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 664000 | 1@1   | CP_QPSK    | 24.83 | -1.95 | 22.88 | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 664000 | 1@104 | CP_QPSK    | 25.35 | -1.95 | 23.4  | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 664000 | 53@26 | CP_QAM16   | 24.73 | -1.95 | 22.78 | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 664000 | 1@1   | CP_QAM16   | 24.34 | -1.95 | 22.39 | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 664000 | 1@104 | CP_QAM16   | 24.8  | -1.95 | 22.85 | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 664000 | 53@26 | CP_QAM64   | 23.34 | -1.95 | 21.39 | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 664000 | 1@1   | CP_QAM64   | 23.63 | -1.95 | 21.68 | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 664000 | 1@104 | CP_QAM64   | 24.08 | -1.95 | 22.13 | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 664000 | 53@26 | CP_QAM256  | 20.43 | -1.95 | 18.48 | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 664000 | 1@1   | CP_QAM256  | 20.49 | -1.95 | 18.54 | 30 | PASS |
| n77(3700-3980) | 30 | 40 | 664000 | 1@104 | CP_QAM256  | 20.84 | -1.95 | 18.89 | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 648334 | 64@32 | DFT_BPSK   | 27.26 | -1.95 | 25.31 | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 648334 | 1@1   | DFT_BPSK   | 26.98 | -1.95 | 25.03 | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 648334 | 1@131 | DFT_BPSK   | 27.01 | -1.95 | 25.06 | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 648334 | 64@32 | DFT_QPSK   | 27.22 | -1.95 | 25.27 | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 648334 | 1@1   | DFT_QPSK   | 26.89 | -1.95 | 24.94 | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 648334 | 1@131 | DFT_QPSK   | 27.07 | -1.95 | 25.12 | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 648334 | 64@32 | DFT_QAM16  | 26.3  | -1.95 | 24.35 | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 648334 | 1@1   | DFT_QAM16  | 25.94 | -1.95 | 23.99 | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 648334 | 1@131 | DFT_QAM16  | 26.43 | -1.95 | 24.48 | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 648334 | 64@32 | DFT_QAM64  | 24.78 | -1.95 | 22.83 | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 648334 | 1@1   | DFT_QAM64  | 24.48 | -1.95 | 22.53 | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 648334 | 1@131 | DFT_QAM64  | 24.69 | -1.95 | 22.74 | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 648334 | 64@32 | DFT_QAM256 | 22.76 | -1.95 | 20.81 | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 648334 | 1@1   | DFT_QAM256 | 22.31 | -1.95 | 20.36 | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 648334 | 1@131 | DFT_QAM256 | 22.3  | -1.95 | 20.35 | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 648334 | 67@33 | CP_QPSK    | 25.6  | -1.95 | 23.65 | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 648334 | 1@1   | CP_QPSK    | 25.35 | -1.95 | 23.4  | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 648334 | 1@131 | CP_QPSK    | 25.58 | -1.95 | 23.63 | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 648334 | 67@33 | CP_QAM16   | 25.15 | -1.95 | 23.2  | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 648334 | 1@1   | CP_QAM16   | 24.98 | -1.95 | 23.03 | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 648334 | 1@131 | CP_QAM16   | 24.88 | -1.95 | 22.93 | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 648334 | 67@33 | CP_QAM64   | 23.72 | -1.95 | 21.77 | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 648334 | 1@1   | CP_QAM64   | 23.91 | -1.95 | 21.96 | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 648334 | 1@131 | CP_QAM64   | 23.95 | -1.95 | 22    | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 648334 | 67@33 | CP_QAM256  | 20.89 | -1.95 | 18.94 | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 648334 | 1@1   | CP_QAM256  | 20.9  | -1.95 | 18.95 | 30 | PASS |

|                |    |    |        |       |            |       |       |       |    |      |
|----------------|----|----|--------|-------|------------|-------|-------|-------|----|------|
| n77(3700-3980) | 30 | 50 | 648334 | 1@131 | CP_QAM256  | 21.15 | -1.95 | 19.2  | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 656000 | 64@32 | DFT_BPSK   | 26.68 | -1.95 | 24.73 | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 656000 | 1@1   | DFT_BPSK   | 26.56 | -1.95 | 24.61 | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 656000 | 1@131 | DFT_BPSK   | 26.78 | -1.95 | 24.83 | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 656000 | 64@32 | DFT_QPSK   | 26.73 | -1.95 | 24.78 | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 656000 | 1@1   | DFT_QPSK   | 26.48 | -1.95 | 24.53 | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 656000 | 1@131 | DFT_QPSK   | 26.54 | -1.95 | 24.59 | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 656000 | 64@32 | DFT_QAM16  | 25.75 | -1.95 | 23.8  | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 656000 | 1@1   | DFT_QAM16  | 25.75 | -1.95 | 23.8  | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 656000 | 1@131 | DFT_QAM16  | 25.64 | -1.95 | 23.69 | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 656000 | 64@32 | DFT_QAM64  | 24.29 | -1.95 | 22.34 | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 656000 | 1@1   | DFT_QAM64  | 24.37 | -1.95 | 22.42 | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 656000 | 1@131 | DFT_QAM64  | 24.17 | -1.95 | 22.22 | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 656000 | 64@32 | DFT_QAM256 | 22.37 | -1.95 | 20.42 | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 656000 | 1@1   | DFT_QAM256 | 22.58 | -1.95 | 20.63 | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 656000 | 1@131 | DFT_QAM256 | 22.65 | -1.95 | 20.7  | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 656000 | 67@33 | CP_QPSK    | 25.18 | -1.95 | 23.23 | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 656000 | 1@1   | CP_QPSK    | 25.38 | -1.95 | 23.43 | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 656000 | 1@131 | CP_QPSK    | 25.32 | -1.95 | 23.37 | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 656000 | 67@33 | CP_QAM16   | 24.66 | -1.95 | 22.71 | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 656000 | 1@1   | CP_QAM16   | 24.61 | -1.95 | 22.66 | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 656000 | 1@131 | CP_QAM16   | 25.01 | -1.95 | 23.06 | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 656000 | 67@33 | CP_QAM64   | 23.29 | -1.95 | 21.34 | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 656000 | 1@1   | CP_QAM64   | 23.94 | -1.95 | 21.99 | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 656000 | 1@131 | CP_QAM64   | 23.42 | -1.95 | 21.47 | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 656000 | 67@33 | CP_QAM256  | 20.41 | -1.95 | 18.46 | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 656000 | 1@1   | CP_QAM256  | 20.81 | -1.95 | 18.86 | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 656000 | 1@131 | CP_QAM256  | 20.62 | -1.95 | 18.67 | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 663666 | 64@32 | DFT_BPSK   | 26.85 | -1.95 | 24.9  | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 663666 | 1@1   | DFT_BPSK   | 26.75 | -1.95 | 24.8  | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 663666 | 1@131 | DFT_BPSK   | 27.32 | -1.95 | 25.37 | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 663666 | 64@32 | DFT_QPSK   | 26.74 | -1.95 | 24.79 | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 663666 | 1@1   | DFT_QPSK   | 26.57 | -1.95 | 24.62 | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 663666 | 1@131 | DFT_QPSK   | 27.13 | -1.95 | 25.18 | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 663666 | 64@32 | DFT_QAM16  | 25.79 | -1.95 | 23.84 | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 663666 | 1@1   | DFT_QAM16  | 25.93 | -1.95 | 23.98 | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 663666 | 1@131 | DFT_QAM16  | 26.11 | -1.95 | 24.16 | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 663666 | 64@32 | DFT_QAM64  | 24.32 | -1.95 | 22.37 | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 663666 | 1@1   | DFT_QAM64  | 24.2  | -1.95 | 22.25 | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 663666 | 1@131 | DFT_QAM64  | 24.89 | -1.95 | 22.94 | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 663666 | 64@32 | DFT_QAM256 | 22.43 | -1.95 | 20.48 | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 663666 | 1@1   | DFT_QAM256 | 22.36 | -1.95 | 20.41 | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 663666 | 1@131 | DFT_QAM256 | 22.87 | -1.95 | 20.92 | 30 | PASS |

|                |    |    |        |       |            |       |       |       |    |      |
|----------------|----|----|--------|-------|------------|-------|-------|-------|----|------|
| n77(3700-3980) | 30 | 50 | 663666 | 67@33 | CP_QPSK    | 25.24 | -1.95 | 23.29 | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 663666 | 1@1   | CP_QPSK    | 24.99 | -1.95 | 23.04 | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 663666 | 1@131 | CP_QPSK    | 25.51 | -1.95 | 23.56 | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 663666 | 67@33 | CP_QAM16   | 24.87 | -1.95 | 22.92 | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 663666 | 1@1   | CP_QAM16   | 24.71 | -1.95 | 22.76 | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 663666 | 1@131 | CP_QAM16   | 25.14 | -1.95 | 23.19 | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 663666 | 67@33 | CP_QAM64   | 23.3  | -1.95 | 21.35 | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 663666 | 1@1   | CP_QAM64   | 23.8  | -1.95 | 21.85 | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 663666 | 1@131 | CP_QAM64   | 24.35 | -1.95 | 22.4  | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 663666 | 67@33 | CP_QAM256  | 20.53 | -1.95 | 18.58 | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 663666 | 1@1   | CP_QAM256  | 21.09 | -1.95 | 19.14 | 30 | PASS |
| n77(3700-3980) | 30 | 50 | 663666 | 1@131 | CP_QAM256  | 21.58 | -1.95 | 19.63 | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 648668 | 81@40 | DFT_BPSK   | 27.27 | -1.95 | 25.32 | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 648668 | 1@1   | DFT_BPSK   | 26.92 | -1.95 | 24.97 | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 648668 | 1@160 | DFT_BPSK   | 26.9  | -1.95 | 24.95 | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 648668 | 81@40 | DFT_QPSK   | 27.28 | -1.95 | 25.33 | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 648668 | 1@1   | DFT_QPSK   | 26.71 | -1.95 | 24.76 | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 648668 | 1@160 | DFT_QPSK   | 26.69 | -1.95 | 24.74 | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 648668 | 81@40 | DFT_QAM16  | 26.35 | -1.95 | 24.4  | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 648668 | 1@1   | DFT_QAM16  | 25.94 | -1.95 | 23.99 | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 648668 | 1@160 | DFT_QAM16  | 25.84 | -1.95 | 23.89 | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 648668 | 81@40 | DFT_QAM64  | 24.84 | -1.95 | 22.89 | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 648668 | 1@1   | DFT_QAM64  | 24.52 | -1.95 | 22.57 | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 648668 | 1@160 | DFT_QAM64  | 24.51 | -1.95 | 22.56 | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 648668 | 81@40 | DFT_QAM256 | 22.91 | -1.95 | 20.96 | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 648668 | 1@1   | DFT_QAM256 | 22.56 | -1.95 | 20.61 | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 648668 | 1@160 | DFT_QAM256 | 22.51 | -1.95 | 20.56 | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 648668 | 81@40 | CP_QPSK    | 25.73 | -1.95 | 23.78 | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 648668 | 1@1   | CP_QPSK    | 25.4  | -1.95 | 23.45 | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 648668 | 1@160 | CP_QPSK    | 25.19 | -1.95 | 23.24 | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 648668 | 81@40 | CP_QAM16   | 25.31 | -1.95 | 23.36 | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 648668 | 1@1   | CP_QAM16   | 24.89 | -1.95 | 22.94 | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 648668 | 1@160 | CP_QAM16   | 25.07 | -1.95 | 23.12 | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 648668 | 81@40 | CP_QAM64   | 23.83 | -1.95 | 21.88 | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 648668 | 1@1   | CP_QAM64   | 23.3  | -1.95 | 21.35 | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 648668 | 1@160 | CP_QAM64   | 23.83 | -1.95 | 21.88 | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 648668 | 81@40 | CP_QAM256  | 20.97 | -1.95 | 19.02 | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 648668 | 1@1   | CP_QAM256  | 20.82 | -1.95 | 18.87 | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 648668 | 1@160 | CP_QAM256  | 20.7  | -1.95 | 18.75 | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 656000 | 81@40 | DFT_BPSK   | 26.77 | -1.95 | 24.82 | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 656000 | 1@1   | DFT_BPSK   | 26.54 | -1.95 | 24.59 | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 656000 | 1@160 | DFT_BPSK   | 26.47 | -1.95 | 24.52 | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 656000 | 81@40 | DFT_QPSK   | 26.73 | -1.95 | 24.78 | 30 | PASS |

|                |    |    |        |       |            |       |       |       |    |      |
|----------------|----|----|--------|-------|------------|-------|-------|-------|----|------|
| n77(3700-3980) | 30 | 60 | 656000 | 1@1   | DFT_QPSK   | 26.33 | -1.95 | 24.38 | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 656000 | 1@160 | DFT_QPSK   | 26.33 | -1.95 | 24.38 | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 656000 | 81@40 | DFT_QAM16  | 25.7  | -1.95 | 23.75 | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 656000 | 1@1   | DFT_QAM16  | 25.88 | -1.95 | 23.93 | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 656000 | 1@160 | DFT_QAM16  | 25.79 | -1.95 | 23.84 | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 656000 | 81@40 | DFT_QAM64  | 24.29 | -1.95 | 22.34 | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 656000 | 1@1   | DFT_QAM64  | 23.97 | -1.95 | 22.02 | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 656000 | 1@160 | DFT_QAM64  | 24.2  | -1.95 | 22.25 | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 656000 | 81@40 | DFT_QAM256 | 22.35 | -1.95 | 20.4  | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 656000 | 1@1   | DFT_QAM256 | 22.13 | -1.95 | 20.18 | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 656000 | 1@160 | DFT_QAM256 | 21.62 | -1.95 | 19.67 | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 656000 | 81@40 | CP_QPSK    | 25.15 | -1.95 | 23.2  | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 656000 | 1@1   | CP_QPSK    | 24.94 | -1.95 | 22.99 | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 656000 | 1@160 | CP_QPSK    | 24.93 | -1.95 | 22.98 | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 656000 | 81@40 | CP_QAM16   | 24.69 | -1.95 | 22.74 | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 656000 | 1@1   | CP_QAM16   | 24.38 | -1.95 | 22.43 | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 656000 | 1@160 | CP_QAM16   | 24.4  | -1.95 | 22.45 | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 656000 | 81@40 | CP_QAM64   | 23.28 | -1.95 | 21.33 | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 656000 | 1@1   | CP_QAM64   | 23.38 | -1.95 | 21.43 | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 656000 | 1@160 | CP_QAM64   | 23.59 | -1.95 | 21.64 | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 656000 | 81@40 | CP_QAM256  | 20.38 | -1.95 | 18.43 | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 656000 | 1@1   | CP_QAM256  | 20.46 | -1.95 | 18.51 | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 656000 | 1@160 | CP_QAM256  | 20.62 | -1.95 | 18.67 | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 663332 | 81@40 | DFT_BPSK   | 26.87 | -1.95 | 24.92 | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 663332 | 1@1   | DFT_BPSK   | 26.27 | -1.95 | 24.32 | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 663332 | 1@160 | DFT_BPSK   | 27.1  | -1.95 | 25.15 | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 663332 | 81@40 | DFT_QPSK   | 26.8  | -1.95 | 24.85 | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 663332 | 1@1   | DFT_QPSK   | 25.99 | -1.95 | 24.04 | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 663332 | 1@160 | DFT_QPSK   | 27.02 | -1.95 | 25.07 | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 663332 | 81@40 | DFT_QAM16  | 25.8  | -1.95 | 23.85 | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 663332 | 1@1   | DFT_QAM16  | 25.1  | -1.95 | 23.15 | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 663332 | 1@160 | DFT_QAM16  | 26.43 | -1.95 | 24.48 | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 663332 | 81@40 | DFT_QAM64  | 24.31 | -1.95 | 22.36 | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 663332 | 1@1   | DFT_QAM64  | 23.67 | -1.95 | 21.72 | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 663332 | 1@160 | DFT_QAM64  | 24.79 | -1.95 | 22.84 | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 663332 | 81@40 | DFT_QAM256 | 22.44 | -1.95 | 20.49 | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 663332 | 1@1   | DFT_QAM256 | 22.01 | -1.95 | 20.06 | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 663332 | 1@160 | DFT_QAM256 | 22.81 | -1.95 | 20.86 | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 663332 | 81@40 | CP_QPSK    | 25.28 | -1.95 | 23.33 | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 663332 | 1@1   | CP_QPSK    | 24.53 | -1.95 | 22.58 | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 663332 | 1@160 | CP_QPSK    | 25.46 | -1.95 | 23.51 | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 663332 | 81@40 | CP_QAM16   | 24.77 | -1.95 | 22.82 | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 663332 | 1@1   | CP_QAM16   | 24.15 | -1.95 | 22.2  | 30 | PASS |

|                |    |    |        |        |            |       |       |       |    |      |
|----------------|----|----|--------|--------|------------|-------|-------|-------|----|------|
| n77(3700-3980) | 30 | 60 | 663332 | 1@160  | CP_QAM16   | 25.38 | -1.95 | 23.43 | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 663332 | 81@40  | CP_QAM64   | 23.38 | -1.95 | 21.43 | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 663332 | 1@1    | CP_QAM64   | 23.1  | -1.95 | 21.15 | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 663332 | 1@160  | CP_QAM64   | 24.23 | -1.95 | 22.28 | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 663332 | 81@40  | CP_QAM256  | 20.49 | -1.95 | 18.54 | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 663332 | 1@1    | CP_QAM256  | 20.41 | -1.95 | 18.46 | 30 | PASS |
| n77(3700-3980) | 30 | 60 | 663332 | 1@160  | CP_QAM256  | 20.97 | -1.95 | 19.02 | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 649334 | 108@54 | DFT_BPSK   | 27.32 | -1.95 | 25.37 | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 649334 | 1@1    | DFT_BPSK   | 26.88 | -1.95 | 24.93 | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 649334 | 1@215  | DFT_BPSK   | 26.82 | -1.95 | 24.87 | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 649334 | 108@54 | DFT_QPSK   | 27.35 | -1.95 | 25.4  | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 649334 | 1@1    | DFT_QPSK   | 26.78 | -1.95 | 24.83 | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 649334 | 1@215  | DFT_QPSK   | 26.59 | -1.95 | 24.64 | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 649334 | 108@54 | DFT_QAM16  | 26.34 | -1.95 | 24.39 | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 649334 | 1@1    | DFT_QAM16  | 26.26 | -1.95 | 24.31 | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 649334 | 1@215  | DFT_QAM16  | 26.12 | -1.95 | 24.17 | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 649334 | 108@54 | DFT_QAM64  | 25.01 | -1.95 | 23.06 | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 649334 | 1@1    | DFT_QAM64  | 24.33 | -1.95 | 22.38 | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 649334 | 1@215  | DFT_QAM64  | 24.29 | -1.95 | 22.34 | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 649334 | 108@54 | DFT_QAM256 | 22.96 | -1.95 | 21.01 | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 649334 | 1@1    | DFT_QAM256 | 22.62 | -1.95 | 20.67 | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 649334 | 1@215  | DFT_QAM256 | 22.51 | -1.95 | 20.56 | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 649334 | 109@54 | CP_QPSK    | 25.75 | -1.95 | 23.8  | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 649334 | 1@1    | CP_QPSK    | 25.15 | -1.95 | 23.2  | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 649334 | 1@215  | CP_QPSK    | 25.02 | -1.95 | 23.07 | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 649334 | 109@54 | CP_QAM16   | 25.29 | -1.95 | 23.34 | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 649334 | 1@1    | CP_QAM16   | 24.92 | -1.95 | 22.97 | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 649334 | 1@215  | CP_QAM16   | 24.84 | -1.95 | 22.89 | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 649334 | 109@54 | CP_QAM64   | 23.83 | -1.95 | 21.88 | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 649334 | 1@1    | CP_QAM64   | 23.77 | -1.95 | 21.82 | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 649334 | 1@215  | CP_QAM64   | 23.68 | -1.95 | 21.73 | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 649334 | 109@54 | CP_QAM256  | 21.05 | -1.95 | 19.1  | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 649334 | 1@1    | CP_QAM256  | 21.09 | -1.95 | 19.14 | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 649334 | 1@215  | CP_QAM256  | 21    | -1.95 | 19.05 | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 656000 | 108@54 | DFT_BPSK   | 26.89 | -1.95 | 24.94 | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 656000 | 1@1    | DFT_BPSK   | 26.53 | -1.95 | 24.58 | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 656000 | 1@215  | DFT_BPSK   | 26.33 | -1.95 | 24.38 | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 656000 | 108@54 | DFT_QPSK   | 26.87 | -1.95 | 24.92 | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 656000 | 1@1    | DFT_QPSK   | 26.3  | -1.95 | 24.35 | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 656000 | 1@215  | DFT_QPSK   | 26.13 | -1.95 | 24.18 | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 656000 | 108@54 | DFT_QAM16  | 25.86 | -1.95 | 23.91 | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 656000 | 1@1    | DFT_QAM16  | 25.56 | -1.95 | 23.61 | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 656000 | 1@215  | DFT_QAM16  | 25.44 | -1.95 | 23.49 | 30 | PASS |

|                |    |    |        |        |            |       |       |       |    |      |
|----------------|----|----|--------|--------|------------|-------|-------|-------|----|------|
| n77(3700-3980) | 30 | 80 | 656000 | 108@54 | DFT_QAM64  | 24.48 | -1.95 | 22.53 | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 656000 | 1@1    | DFT_QAM64  | 24.01 | -1.95 | 22.06 | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 656000 | 1@215  | DFT_QAM64  | 23.93 | -1.95 | 21.98 | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 656000 | 108@54 | DFT_QAM256 | 22.52 | -1.95 | 20.57 | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 656000 | 1@1    | DFT_QAM256 | 22.21 | -1.95 | 20.26 | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 656000 | 1@215  | DFT_QAM256 | 21.98 | -1.95 | 20.03 | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 656000 | 109@54 | CP_QPSK    | 25.35 | -1.95 | 23.4  | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 656000 | 1@1    | CP_QPSK    | 25.2  | -1.95 | 23.25 | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 656000 | 1@215  | CP_QPSK    | 24.92 | -1.95 | 22.97 | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 656000 | 109@54 | CP_QAM16   | 24.85 | -1.95 | 22.9  | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 656000 | 1@1    | CP_QAM16   | 24.44 | -1.95 | 22.49 | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 656000 | 1@215  | CP_QAM16   | 24.64 | -1.95 | 22.69 | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 656000 | 109@54 | CP_QAM64   | 23.4  | -1.95 | 21.45 | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 656000 | 1@1    | CP_QAM64   | 23.37 | -1.95 | 21.42 | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 656000 | 1@215  | CP_QAM64   | 23.27 | -1.95 | 21.32 | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 656000 | 109@54 | CP_QAM256  | 20.58 | -1.95 | 18.63 | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 656000 | 1@1    | CP_QAM256  | 20.59 | -1.95 | 18.64 | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 656000 | 1@215  | CP_QAM256  | 20.28 | -1.95 | 18.33 | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 662666 | 108@54 | DFT_BPSK   | 26.9  | -1.95 | 24.95 | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 662666 | 1@1    | DFT_BPSK   | 26.49 | -1.95 | 24.54 | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 662666 | 1@215  | DFT_BPSK   | 27.04 | -1.95 | 25.09 | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 662666 | 108@54 | DFT_QPSK   | 26.84 | -1.95 | 24.89 | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 662666 | 1@1    | DFT_QPSK   | 26.25 | -1.95 | 24.3  | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 662666 | 1@215  | DFT_QPSK   | 26.86 | -1.95 | 24.91 | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 662666 | 108@54 | DFT_QAM16  | 25.93 | -1.95 | 23.98 | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 662666 | 1@1    | DFT_QAM16  | 25.36 | -1.95 | 23.41 | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 662666 | 1@215  | DFT_QAM16  | 26.14 | -1.95 | 24.19 | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 662666 | 108@54 | DFT_QAM64  | 24.41 | -1.95 | 22.46 | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 662666 | 1@1    | DFT_QAM64  | 24.06 | -1.95 | 22.11 | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 662666 | 1@215  | DFT_QAM64  | 24.79 | -1.95 | 22.84 | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 662666 | 108@54 | DFT_QAM256 | 22.43 | -1.95 | 20.48 | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 662666 | 1@1    | DFT_QAM256 | 21.59 | -1.95 | 19.64 | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 662666 | 1@215  | DFT_QAM256 | 22.25 | -1.95 | 20.3  | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 662666 | 109@54 | CP_QPSK    | 25.31 | -1.95 | 23.36 | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 662666 | 1@1    | CP_QPSK    | 24.93 | -1.95 | 22.98 | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 662666 | 1@215  | CP_QPSK    | 25.53 | -1.95 | 23.58 | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 662666 | 109@54 | CP_QAM16   | 24.84 | -1.95 | 22.89 | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 662666 | 1@1    | CP_QAM16   | 24.74 | -1.95 | 22.79 | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 662666 | 1@215  | CP_QAM16   | 25.31 | -1.95 | 23.36 | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 662666 | 109@54 | CP_QAM64   | 23.35 | -1.95 | 21.4  | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 662666 | 1@1    | CP_QAM64   | 23.61 | -1.95 | 21.66 | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 662666 | 1@215  | CP_QAM64   | 23.98 | -1.95 | 22.03 | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 662666 | 109@54 | CP_QAM256  | 20.61 | -1.95 | 18.66 | 30 | PASS |

|                |    |    |        |        |            |       |       |       |    |      |
|----------------|----|----|--------|--------|------------|-------|-------|-------|----|------|
| n77(3700-3980) | 30 | 80 | 662666 | 1@1    | CP_QAM256  | 20.57 | -1.95 | 18.62 | 30 | PASS |
| n77(3700-3980) | 30 | 80 | 662666 | 1@215  | CP_QAM256  | 20.98 | -1.95 | 19.03 | 30 | PASS |
| n77(3700-3980) | 30 | 90 | 649668 | 120@60 | DFT_BPSK   | 27.28 | -1.95 | 25.33 | 30 | PASS |
| n77(3700-3980) | 30 | 90 | 649668 | 1@1    | DFT_BPSK   | 26.72 | -1.95 | 24.77 | 30 | PASS |
| n77(3700-3980) | 30 | 90 | 649668 | 1@243  | DFT_BPSK   | 26.53 | -1.95 | 24.58 | 30 | PASS |
| n77(3700-3980) | 30 | 90 | 649668 | 120@60 | DFT_QPSK   | 27.27 | -1.95 | 25.32 | 30 | PASS |
| n77(3700-3980) | 30 | 90 | 649668 | 1@1    | DFT_QPSK   | 26.63 | -1.95 | 24.68 | 30 | PASS |
| n77(3700-3980) | 30 | 90 | 649668 | 1@243  | DFT_QPSK   | 26.42 | -1.95 | 24.47 | 30 | PASS |
| n77(3700-3980) | 30 | 90 | 649668 | 120@60 | DFT_QAM16  | 26.32 | -1.95 | 24.37 | 30 | PASS |
| n77(3700-3980) | 30 | 90 | 649668 | 1@1    | DFT_QAM16  | 25.86 | -1.95 | 23.91 | 30 | PASS |
| n77(3700-3980) | 30 | 90 | 649668 | 1@243  | DFT_QAM16  | 25.66 | -1.95 | 23.71 | 30 | PASS |
| n77(3700-3980) | 30 | 90 | 649668 | 120@60 | DFT_QAM64  | 24.87 | -1.95 | 22.92 | 30 | PASS |
| n77(3700-3980) | 30 | 90 | 649668 | 1@1    | DFT_QAM64  | 24.11 | -1.95 | 22.16 | 30 | PASS |
| n77(3700-3980) | 30 | 90 | 649668 | 1@243  | DFT_QAM64  | 23.96 | -1.95 | 22.01 | 30 | PASS |
| n77(3700-3980) | 30 | 90 | 649668 | 120@60 | DFT_QAM256 | 22.85 | -1.95 | 20.9  | 30 | PASS |
| n77(3700-3980) | 30 | 90 | 649668 | 1@1    | DFT_QAM256 | 22.6  | -1.95 | 20.65 | 30 | PASS |
| n77(3700-3980) | 30 | 90 | 649668 | 1@243  | DFT_QAM256 | 22.49 | -1.95 | 20.54 | 30 | PASS |
| n77(3700-3980) | 30 | 90 | 649668 | 123@61 | CP_QPSK    | 25.78 | -1.95 | 23.83 | 30 | PASS |
| n77(3700-3980) | 30 | 90 | 649668 | 1@1    | CP_QPSK    | 25.08 | -1.95 | 23.13 | 30 | PASS |
| n77(3700-3980) | 30 | 90 | 649668 | 1@243  | CP_QPSK    | 24.86 | -1.95 | 22.91 | 30 | PASS |
| n77(3700-3980) | 30 | 90 | 649668 | 123@61 | CP_QAM16   | 25.26 | -1.95 | 23.31 | 30 | PASS |
| n77(3700-3980) | 30 | 90 | 649668 | 1@1    | CP_QAM16   | 24.6  | -1.95 | 22.65 | 30 | PASS |
| n77(3700-3980) | 30 | 90 | 649668 | 1@243  | CP_QAM16   | 24.41 | -1.95 | 22.46 | 30 | PASS |
| n77(3700-3980) | 30 | 90 | 649668 | 123@61 | CP_QAM64   | 23.73 | -1.95 | 21.78 | 30 | PASS |
| n77(3700-3980) | 30 | 90 | 649668 | 1@1    | CP_QAM64   | 23.65 | -1.95 | 21.7  | 30 | PASS |
| n77(3700-3980) | 30 | 90 | 649668 | 1@243  | CP_QAM64   | 23.55 | -1.95 | 21.6  | 30 | PASS |
| n77(3700-3980) | 30 | 90 | 649668 | 123@61 | CP_QAM256  | 21.01 | -1.95 | 19.06 | 30 | PASS |
| n77(3700-3980) | 30 | 90 | 649668 | 1@1    | CP_QAM256  | 21.06 | -1.95 | 19.11 | 30 | PASS |
| n77(3700-3980) | 30 | 90 | 649668 | 1@243  | CP_QAM256  | 20.8  | -1.95 | 18.85 | 30 | PASS |
| n77(3700-3980) | 30 | 90 | 656000 | 120@60 | DFT_BPSK   | 26.81 | -1.95 | 24.86 | 30 | PASS |
| n77(3700-3980) | 30 | 90 | 656000 | 1@1    | DFT_BPSK   | 26.35 | -1.95 | 24.4  | 30 | PASS |
| n77(3700-3980) | 30 | 90 | 656000 | 1@243  | DFT_BPSK   | 26.32 | -1.95 | 24.37 | 30 | PASS |
| n77(3700-3980) | 30 | 90 | 656000 | 120@60 | DFT_QPSK   | 26.81 | -1.95 | 24.86 | 30 | PASS |
| n77(3700-3980) | 30 | 90 | 656000 | 1@1    | DFT_QPSK   | 26.24 | -1.95 | 24.29 | 30 | PASS |
| n77(3700-3980) | 30 | 90 | 656000 | 1@243  | DFT_QPSK   | 26.23 | -1.95 | 24.28 | 30 | PASS |
| n77(3700-3980) | 30 | 90 | 656000 | 120@60 | DFT_QAM16  | 25.86 | -1.95 | 23.91 | 30 | PASS |
| n77(3700-3980) | 30 | 90 | 656000 | 1@1    | DFT_QAM16  | 25.41 | -1.95 | 23.46 | 30 | PASS |
| n77(3700-3980) | 30 | 90 | 656000 | 1@243  | DFT_QAM16  | 25.39 | -1.95 | 23.44 | 30 | PASS |
| n77(3700-3980) | 30 | 90 | 656000 | 120@60 | DFT_QAM64  | 24.38 | -1.95 | 22.43 | 30 | PASS |
| n77(3700-3980) | 30 | 90 | 656000 | 1@1    | DFT_QAM64  | 23.75 | -1.95 | 21.8  | 30 | PASS |
| n77(3700-3980) | 30 | 90 | 656000 | 1@243  | DFT_QAM64  | 23.81 | -1.95 | 21.86 | 30 | PASS |
| n77(3700-3980) | 30 | 90 | 656000 | 120@60 | DFT_QAM256 | 22.41 | -1.95 | 20.46 | 30 | PASS |
| n77(3700-3980) | 30 | 90 | 656000 | 1@1    | DFT_QAM256 | 22.12 | -1.95 | 20.17 | 30 | PASS |

|                |    |     |        |        |            |       |       |       |    |      |
|----------------|----|-----|--------|--------|------------|-------|-------|-------|----|------|
| n77(3700-3980) | 30 | 90  | 656000 | 1@243  | DFT_QAM256 | 22.17 | -1.95 | 20.22 | 30 | PASS |
| n77(3700-3980) | 30 | 90  | 656000 | 123@61 | CP_QPSK    | 25.33 | -1.95 | 23.38 | 30 | PASS |
| n77(3700-3980) | 30 | 90  | 656000 | 1@1    | CP_QPSK    | 24.95 | -1.95 | 23    | 30 | PASS |
| n77(3700-3980) | 30 | 90  | 656000 | 1@243  | CP_QPSK    | 24.94 | -1.95 | 22.99 | 30 | PASS |
| n77(3700-3980) | 30 | 90  | 656000 | 123@61 | CP_QAM16   | 24.78 | -1.95 | 22.83 | 30 | PASS |
| n77(3700-3980) | 30 | 90  | 656000 | 1@1    | CP_QAM16   | 24.3  | -1.95 | 22.35 | 30 | PASS |
| n77(3700-3980) | 30 | 90  | 656000 | 1@243  | CP_QAM16   | 24.28 | -1.95 | 22.33 | 30 | PASS |
| n77(3700-3980) | 30 | 90  | 656000 | 123@61 | CP_QAM64   | 23.33 | -1.95 | 21.38 | 30 | PASS |
| n77(3700-3980) | 30 | 90  | 656000 | 1@1    | CP_QAM64   | 23.05 | -1.95 | 21.1  | 30 | PASS |
| n77(3700-3980) | 30 | 90  | 656000 | 1@243  | CP_QAM64   | 23.2  | -1.95 | 21.25 | 30 | PASS |
| n77(3700-3980) | 30 | 90  | 656000 | 123@61 | CP_QAM256  | 20.56 | -1.95 | 18.61 | 30 | PASS |
| n77(3700-3980) | 30 | 90  | 656000 | 1@1    | CP_QAM256  | 20.74 | -1.95 | 18.79 | 30 | PASS |
| n77(3700-3980) | 30 | 90  | 656000 | 1@243  | CP_QAM256  | 20.64 | -1.95 | 18.69 | 30 | PASS |
| n77(3700-3980) | 30 | 90  | 662332 | 120@60 | DFT_BPSK   | 26.8  | -1.95 | 24.85 | 30 | PASS |
| n77(3700-3980) | 30 | 90  | 662332 | 1@1    | DFT_BPSK   | 26.35 | -1.95 | 24.4  | 30 | PASS |
| n77(3700-3980) | 30 | 90  | 662332 | 1@243  | DFT_BPSK   | 26.94 | -1.95 | 24.99 | 30 | PASS |
| n77(3700-3980) | 30 | 90  | 662332 | 120@60 | DFT_QPSK   | 26.84 | -1.95 | 24.89 | 30 | PASS |
| n77(3700-3980) | 30 | 90  | 662332 | 1@1    | DFT_QPSK   | 26.25 | -1.95 | 24.3  | 30 | PASS |
| n77(3700-3980) | 30 | 90  | 662332 | 1@243  | DFT_QPSK   | 26.88 | -1.95 | 24.93 | 30 | PASS |
| n77(3700-3980) | 30 | 90  | 662332 | 120@60 | DFT_QAM16  | 25.85 | -1.95 | 23.9  | 30 | PASS |
| n77(3700-3980) | 30 | 90  | 662332 | 1@1    | DFT_QAM16  | 25.52 | -1.95 | 23.57 | 30 | PASS |
| n77(3700-3980) | 30 | 90  | 662332 | 1@243  | DFT_QAM16  | 26.08 | -1.95 | 24.13 | 30 | PASS |
| n77(3700-3980) | 30 | 90  | 662332 | 120@60 | DFT_QAM64  | 24.4  | -1.95 | 22.45 | 30 | PASS |
| n77(3700-3980) | 30 | 90  | 662332 | 1@1    | DFT_QAM64  | 23.82 | -1.95 | 21.87 | 30 | PASS |
| n77(3700-3980) | 30 | 90  | 662332 | 1@243  | DFT_QAM64  | 24.36 | -1.95 | 22.41 | 30 | PASS |
| n77(3700-3980) | 30 | 90  | 662332 | 120@60 | DFT_QAM256 | 22.38 | -1.95 | 20.43 | 30 | PASS |
| n77(3700-3980) | 30 | 90  | 662332 | 1@1    | DFT_QAM256 | 22.38 | -1.95 | 20.43 | 30 | PASS |
| n77(3700-3980) | 30 | 90  | 662332 | 1@243  | DFT_QAM256 | 22.98 | -1.95 | 21.03 | 30 | PASS |
| n77(3700-3980) | 30 | 90  | 662332 | 123@61 | CP_QPSK    | 25.34 | -1.95 | 23.39 | 30 | PASS |
| n77(3700-3980) | 30 | 90  | 662332 | 1@1    | CP_QPSK    | 24.85 | -1.95 | 22.9  | 30 | PASS |
| n77(3700-3980) | 30 | 90  | 662332 | 1@243  | CP_QPSK    | 25.34 | -1.95 | 23.39 | 30 | PASS |
| n77(3700-3980) | 30 | 90  | 662332 | 123@61 | CP_QAM16   | 24.73 | -1.95 | 22.78 | 30 | PASS |
| n77(3700-3980) | 30 | 90  | 662332 | 1@1    | CP_QAM16   | 24.3  | -1.95 | 22.35 | 30 | PASS |
| n77(3700-3980) | 30 | 90  | 662332 | 1@243  | CP_QAM16   | 24.81 | -1.95 | 22.86 | 30 | PASS |
| n77(3700-3980) | 30 | 90  | 662332 | 123@61 | CP_QAM64   | 23.32 | -1.95 | 21.37 | 30 | PASS |
| n77(3700-3980) | 30 | 90  | 662332 | 1@1    | CP_QAM64   | 23.45 | -1.95 | 21.5  | 30 | PASS |
| n77(3700-3980) | 30 | 90  | 662332 | 1@243  | CP_QAM64   | 24.1  | -1.95 | 22.15 | 30 | PASS |
| n77(3700-3980) | 30 | 90  | 662332 | 123@61 | CP_QAM256  | 20.61 | -1.95 | 18.66 | 30 | PASS |
| n77(3700-3980) | 30 | 90  | 662332 | 1@1    | CP_QAM256  | 20.78 | -1.95 | 18.83 | 30 | PASS |
| n77(3700-3980) | 30 | 90  | 662332 | 1@243  | CP_QAM256  | 21.34 | -1.95 | 19.39 | 30 | PASS |
| n77(3700-3980) | 30 | 100 | 650000 | 135@67 | DFT_BPSK   | 27.13 | -1.95 | 25.18 | 30 | PASS |
| n77(3700-3980) | 30 | 100 | 650000 | 1@1    | DFT_BPSK   | 26.26 | -1.95 | 24.31 | 30 | PASS |
| n77(3700-3980) | 30 | 100 | 650000 | 1@271  | DFT_BPSK   | 26.59 | -1.95 | 24.64 | 30 | PASS |

|                |    |     |        |        |            |       |       |       |    |      |
|----------------|----|-----|--------|--------|------------|-------|-------|-------|----|------|
| n77(3700-3980) | 30 | 100 | 650000 | 135@67 | DFT_QPSK   | 27.26 | -1.95 | 25.31 | 30 | PASS |
| n77(3700-3980) | 30 | 100 | 650000 | 1@1    | DFT_QPSK   | 26.21 | -1.95 | 24.26 | 30 | PASS |
| n77(3700-3980) | 30 | 100 | 650000 | 1@271  | DFT_QPSK   | 26.41 | -1.95 | 24.46 | 30 | PASS |
| n77(3700-3980) | 30 | 100 | 650000 | 135@67 | DFT_QAM16  | 26.25 | -1.95 | 24.3  | 30 | PASS |
| n77(3700-3980) | 30 | 100 | 650000 | 1@1    | DFT_QAM16  | 25.74 | -1.95 | 23.79 | 30 | PASS |
| n77(3700-3980) | 30 | 100 | 650000 | 1@271  | DFT_QAM16  | 25.84 | -1.95 | 23.89 | 30 | PASS |
| n77(3700-3980) | 30 | 100 | 650000 | 135@67 | DFT_QAM64  | 24.84 | -1.95 | 22.89 | 30 | PASS |
| n77(3700-3980) | 30 | 100 | 650000 | 1@1    | DFT_QAM64  | 23.79 | -1.95 | 21.84 | 30 | PASS |
| n77(3700-3980) | 30 | 100 | 650000 | 1@271  | DFT_QAM64  | 23.85 | -1.95 | 21.9  | 30 | PASS |
| n77(3700-3980) | 30 | 100 | 650000 | 135@67 | DFT_QAM256 | 22.79 | -1.95 | 20.84 | 30 | PASS |
| n77(3700-3980) | 30 | 100 | 650000 | 1@1    | DFT_QAM256 | 22.12 | -1.95 | 20.17 | 30 | PASS |
| n77(3700-3980) | 30 | 100 | 650000 | 1@271  | DFT_QAM256 | 22.55 | -1.95 | 20.6  | 30 | PASS |
| n77(3700-3980) | 30 | 100 | 650000 | 137@68 | CP_QPSK    | 25.71 | -1.95 | 23.76 | 30 | PASS |
| n77(3700-3980) | 30 | 100 | 650000 | 1@1    | CP_QPSK    | 24.66 | -1.95 | 22.71 | 30 | PASS |
| n77(3700-3980) | 30 | 100 | 650000 | 1@271  | CP_QPSK    | 24.84 | -1.95 | 22.89 | 30 | PASS |
| n77(3700-3980) | 30 | 100 | 650000 | 137@68 | CP_QAM16   | 25.25 | -1.95 | 23.3  | 30 | PASS |
| n77(3700-3980) | 30 | 100 | 650000 | 1@1    | CP_QAM16   | 24.23 | -1.95 | 22.28 | 30 | PASS |
| n77(3700-3980) | 30 | 100 | 650000 | 1@271  | CP_QAM16   | 24.34 | -1.95 | 22.39 | 30 | PASS |
| n77(3700-3980) | 30 | 100 | 650000 | 137@68 | CP_QAM64   | 23.78 | -1.95 | 21.83 | 30 | PASS |
| n77(3700-3980) | 30 | 100 | 650000 | 1@1    | CP_QAM64   | 23.26 | -1.95 | 21.31 | 30 | PASS |
| n77(3700-3980) | 30 | 100 | 650000 | 1@271  | CP_QAM64   | 23.47 | -1.95 | 21.52 | 30 | PASS |
| n77(3700-3980) | 30 | 100 | 650000 | 137@68 | CP_QAM256  | 21.06 | -1.95 | 19.11 | 30 | PASS |
| n77(3700-3980) | 30 | 100 | 650000 | 1@1    | CP_QAM256  | 20.65 | -1.95 | 18.7  | 30 | PASS |
| n77(3700-3980) | 30 | 100 | 650000 | 1@271  | CP_QAM256  | 20.84 | -1.95 | 18.89 | 30 | PASS |
| n77(3700-3980) | 30 | 100 | 656000 | 135@67 | DFT_BPSK   | 27.05 | -1.95 | 25.1  | 30 | PASS |
| n77(3700-3980) | 30 | 100 | 656000 | 1@1    | DFT_BPSK   | 26.2  | -1.95 | 24.25 | 30 | PASS |
| n77(3700-3980) | 30 | 100 | 656000 | 1@271  | DFT_BPSK   | 26.22 | -1.95 | 24.27 | 30 | PASS |
| n77(3700-3980) | 30 | 100 | 656000 | 135@67 | DFT_QPSK   | 27.03 | -1.95 | 25.08 | 30 | PASS |
| n77(3700-3980) | 30 | 100 | 656000 | 1@1    | DFT_QPSK   | 26.15 | -1.95 | 24.2  | 30 | PASS |
| n77(3700-3980) | 30 | 100 | 656000 | 1@271  | DFT_QPSK   | 26.21 | -1.95 | 24.26 | 30 | PASS |
| n77(3700-3980) | 30 | 100 | 656000 | 135@67 | DFT_QAM16  | 25.94 | -1.95 | 23.99 | 30 | PASS |
| n77(3700-3980) | 30 | 100 | 656000 | 1@1    | DFT_QAM16  | 25.28 | -1.95 | 23.33 | 30 | PASS |
| n77(3700-3980) | 30 | 100 | 656000 | 1@271  | DFT_QAM16  | 25.31 | -1.95 | 23.36 | 30 | PASS |
| n77(3700-3980) | 30 | 100 | 656000 | 135@67 | DFT_QAM64  | 24.56 | -1.95 | 22.61 | 30 | PASS |
| n77(3700-3980) | 30 | 100 | 656000 | 1@1    | DFT_QAM64  | 23.64 | -1.95 | 21.69 | 30 | PASS |
| n77(3700-3980) | 30 | 100 | 656000 | 1@271  | DFT_QAM64  | 23.6  | -1.95 | 21.65 | 30 | PASS |
| n77(3700-3980) | 30 | 100 | 656000 | 135@67 | DFT_QAM256 | 22.49 | -1.95 | 20.54 | 30 | PASS |
| n77(3700-3980) | 30 | 100 | 656000 | 1@1    | DFT_QAM256 | 21.95 | -1.95 | 20    | 30 | PASS |
| n77(3700-3980) | 30 | 100 | 656000 | 1@271  | DFT_QAM256 | 21.94 | -1.95 | 19.99 | 30 | PASS |
| n77(3700-3980) | 30 | 100 | 656000 | 137@68 | CP_QPSK    | 25.44 | -1.95 | 23.49 | 30 | PASS |
| n77(3700-3980) | 30 | 100 | 656000 | 1@1    | CP_QPSK    | 24.82 | -1.95 | 22.87 | 30 | PASS |
| n77(3700-3980) | 30 | 100 | 656000 | 1@271  | CP_QPSK    | 24.89 | -1.95 | 22.94 | 30 | PASS |
| n77(3700-3980) | 30 | 100 | 656000 | 137@68 | CP_QAM16   | 25.04 | -1.95 | 23.09 | 30 | PASS |

|                |    |     |        |        |            |       |       |       |    |       |
|----------------|----|-----|--------|--------|------------|-------|-------|-------|----|-------|
| n77(3700-3980) | 30 | 100 | 656000 | 1@1    | CP_QAM16   | 24.19 | -1.95 | 22.24 | 30 | PASS  |
| n77(3700-3980) | 30 | 100 | 656000 | 1@271  | CP_QAM16   | 24.1  | -1.95 | 22.15 | 30 | PASS  |
| n77(3700-3980) | 30 | 100 | 656000 | 137@68 | CP_QAM64   | 23.56 | -1.95 | 21.61 | 30 | PASS  |
| n77(3700-3980) | 30 | 100 | 656000 | 1@1    | CP_QAM64   | 22.9  | -1.95 | 20.95 | 30 | PASS  |
| n77(3700-3980) | 30 | 100 | 656000 | 1@271  | CP_QAM64   | 22.87 | -1.95 | 20.92 | 30 | PASS  |
| n77(3700-3980) | 30 | 100 | 656000 | 137@68 | CP_QAM256  | 20.79 | -1.95 | 18.84 | 30 | PASS  |
| n77(3700-3980) | 30 | 100 | 656000 | 1@1    | CP_QAM256  | 20.56 | -1.95 | 18.61 | 30 | PASS  |
| n77(3700-3980) | 30 | 100 | 656000 | 1@271  | CP_QAM256  | 20.64 | -1.95 | 18.69 | 30 | PASS  |
| n77(3700-3980) | 30 | 100 | 662000 | 135@67 | DFT_BPSK   | 26.82 | -1.95 | 24.87 | 30 | PASS  |
| n77(3700-3980) | 30 | 100 | 662000 | 1@1    | DFT_BPSK   | 26.09 | -1.95 | 24.14 | 30 | PASS  |
| n77(3700-3980) | 30 | 100 | 662000 | 1@271  | DFT_BPSK   | 26.28 | -1.95 | 24.33 | 30 | PASS  |
| n77(3700-3980) | 30 | 100 | 662000 | 135@67 | DFT_QPSK   | 26.8  | -1.95 | 24.85 | 30 | PASS  |
| n77(3700-3980) | 30 | 100 | 662000 | 1@1    | DFT_QPSK   | 26.14 | -1.95 | 24.19 | 30 | PASS  |
| n77(3700-3980) | 30 | 100 | 662000 | 1@271  | DFT_QPSK   | 26.24 | -1.95 | 24.29 | 30 | PASS  |
| n77(3700-3980) | 30 | 100 | 662000 | 135@67 | DFT_QAM16  | 25.81 | -1.95 | 23.86 | 30 | PASS  |
| n77(3700-3980) | 30 | 100 | 662000 | 1@1    | DFT_QAM16  | 25.31 | -1.95 | 23.36 | 30 | PASS  |
| n77(3700-3980) | 30 | 100 | 662000 | 1@271  | DFT_QAM16  | 25.45 | -1.95 | 23.5  | 30 | PASS  |
| n77(3700-3980) | 30 | 100 | 662000 | 135@67 | DFT_QAM64  | 24.41 | -1.95 | 22.46 | 30 | PASS  |
| n77(3700-3980) | 30 | 100 | 662000 | 1@1    | DFT_QAM64  | 23.63 | -1.95 | 21.68 | 30 | PASS  |
| n77(3700-3980) | 30 | 100 | 662000 | 1@271  | DFT_QAM64  | 23.74 | -1.95 | 21.79 | 30 | PASS  |
| n77(3700-3980) | 30 | 100 | 662000 | 135@67 | DFT_QAM256 | 22.42 | -1.95 | 20.47 | 30 | PASS  |
| n77(3700-3980) | 30 | 100 | 662000 | 1@1    | DFT_QAM256 | 21.89 | -1.95 | 19.94 | 30 | PASS  |
| n77(3700-3980) | 30 | 100 | 662000 | 1@271  | DFT_QAM256 | 22.15 | -1.95 | 20.2  | 30 | PASS  |
| n77(3700-3980) | 30 | 100 | 662000 | 137@68 | CP_QPSK    | 25.16 | -1.95 | 23.21 | 30 | PASS  |
| n77(3700-3980) | 30 | 100 | 662000 | 1@1    | CP_QPSK    | 24.74 | -1.95 | 22.79 | 30 | PASS  |
| n77(3700-3980) | 30 | 100 | 662000 | 1@271  | CP_QPSK    | 25.05 | -1.95 | 23.1  | 30 | PASS  |
| n77(3700-3980) | 30 | 100 | 662000 | 137@68 | CP_QAM16   | 24.79 | -1.95 | 22.84 | 30 | PASS  |
| n77(3700-3980) | 30 | 100 | 662000 | 1@1    | CP_QAM16   | 24.02 | -1.95 | 22.07 | 30 | PASS  |
| n77(3700-3980) | 30 | 100 | 662000 | 1@271  | CP_QAM16   | 24.28 | -1.95 | 22.33 | 30 | PASS  |
| n77(3700-3980) | 30 | 100 | 662000 | 137@68 | CP_QAM64   | 23.24 | -1.95 | 21.29 | 30 | PASS  |
| n77(3700-3980) | 30 | 100 | 662000 | 1@1    | CP_QAM64   | 22.84 | -1.95 | 20.89 | 30 | PASS  |
| n77(3700-3980) | 30 | 100 | 662000 | 1@271  | CP_QAM64   | 23.27 | -1.95 | 21.32 | 30 | PASS  |
| n77(3700-3980) | 30 | 100 | 662000 | 137@68 | CP_QAM256  | 20.62 | -1.95 | 16.52 | 30 | 18.67 |
| n77(3700-3980) | 30 | 100 | 662000 | 1@1    | CP_QAM256  | 20.5  | -1.95 | 16.4  | 30 | 18.55 |
| n77(3700-3980) | 30 | 100 | 662000 | 1@271  | CP_QAM256  | 20.74 | -1.95 | 16.64 | 30 | 18.79 |

## 2 Frequency stability for NR FR1

NT:

| Band           | SCS<br>(kHz) | Bandwidth<br>(MHz) | UL<br>Channel | RB<br>Allocation | Modulation | Voltage<br>(Vdc) | Result(Hz) | Result<br>(ppm) | Limit<br>(ppm)                                   | Verdict |
|----------------|--------------|--------------------|---------------|------------------|------------|------------------|------------|-----------------|--------------------------------------------------|---------|
| n77(3700-3980) | 15           | 100                | 656000        | 135@67           | DFT_BPSK   | 3.89             | -27.61     | -0.01           | Within<br>authorized<br>band for<br>5G NR<br>n77 | PASS    |
| n77(3700-3980) | 15           | 100                | 656000        | 135@67           | DFT_BPSK   | 3.45             | -30.37     | -0.01           |                                                  | PASS    |
| n77(3700-3980) | 15           | 100                | 656000        | 135@67           | DFT_BPSK   | 4.48             | -29.85     | -0.01           |                                                  | PASS    |
| n77(3700-3980) | 15           | 100                | 656000        | 135@67           | DFT_QPSK   | 3.89             | -30.96     | -0.01           |                                                  | PASS    |
| n77(3700-3980) | 15           | 100                | 656000        | 135@67           | DFT_QPSK   | 3.45             | -31.44     | -0.01           |                                                  | PASS    |
| n77(3700-3980) | 15           | 100                | 656000        | 135@67           | DFT_QPSK   | 4.48             | -30.25     | -0.01           |                                                  | PASS    |

Note: Only the worst case shown in the report.

NV:

| Band           | SCS<br>(kHz) | Bandwidth<br>(MHz) | UL<br>Channel | RB<br>Allocation | Modulation | Voltage<br>(Vdc) | Result(Hz) | Result<br>(ppm) | Limit<br>(ppm)                                   | Verdict |
|----------------|--------------|--------------------|---------------|------------------|------------|------------------|------------|-----------------|--------------------------------------------------|---------|
| n77(3700-3980) | 15           | 100                | 656000        | 135@67           | DFT_BPSK   | -30              | -13.87     | 0.00            | Within<br>authorized<br>band for<br>5G NR<br>n77 | PASS    |
| n77(3700-3980) | 15           | 100                | 656000        | 135@67           | DFT_BPSK   | -20              | -11.86     | 0.00            |                                                  | PASS    |
| n77(3700-3980) | 15           | 100                | 656000        | 135@67           | DFT_BPSK   | -10              | -15.75     | 0.00            |                                                  | PASS    |
| n77(3700-3980) | 15           | 100                | 656000        | 135@67           | DFT_BPSK   | 0                | -12.73     | 0.00            |                                                  | PASS    |
| n77(3700-3980) | 15           | 100                | 656000        | 135@67           | DFT_BPSK   | 10               | -11.33     | 0.00            |                                                  | PASS    |
| n77(3700-3980) | 15           | 100                | 656000        | 135@67           | DFT_BPSK   | 20               | -12.94     | 0.00            |                                                  | PASS    |
| n77(3700-3980) | 15           | 100                | 656000        | 135@67           | DFT_BPSK   | 30               | -16.59     | 0.00            |                                                  | PASS    |
| n77(3700-3980) | 15           | 100                | 656000        | 135@67           | DFT_BPSK   | 40               | -10.39     | 0.00            |                                                  | PASS    |
| n77(3700-3980) | 15           | 100                | 656000        | 135@67           | DFT_BPSK   | 50               | -17.4      | 0.00            |                                                  | PASS    |
| n77(3700-3980) | 15           | 100                | 656000        | 135@67           | DFT_QPSK   | -30              | -16        | 0.00            |                                                  | PASS    |
| n77(3700-3980) | 15           | 100                | 656000        | 135@67           | DFT_QPSK   | -20              | -13.53     | 0.00            |                                                  | PASS    |
| n77(3700-3980) | 15           | 100                | 656000        | 135@67           | DFT_QPSK   | -10              | -12.54     | 0.00            |                                                  | PASS    |
| n77(3700-3980) | 15           | 100                | 656000        | 135@67           | DFT_QPSK   | 0                | -12.07     | 0.00            |                                                  | PASS    |
| n77(3700-3980) | 15           | 100                | 656000        | 135@67           | DFT_QPSK   | 10               | -13.82     | 0.00            |                                                  | PASS    |
| n77(3700-3980) | 15           | 100                | 656000        | 135@67           | DFT_QPSK   | 20               | -14.11     | 0.00            |                                                  | PASS    |
| n77(3700-3980) | 15           | 100                | 656000        | 135@67           | DFT_QPSK   | 30               | -12.15     | 0.00            |                                                  | PASS    |
| n77(3700-3980) | 15           | 100                | 656000        | 135@67           | DFT_QPSK   | 40               | -12.63     | 0.00            |                                                  | PASS    |
| n77(3700-3980) | 15           | 100                | 656000        | 135@67           | DFT_QPSK   | 50               | -14.16     | 0.00            |                                                  | PASS    |

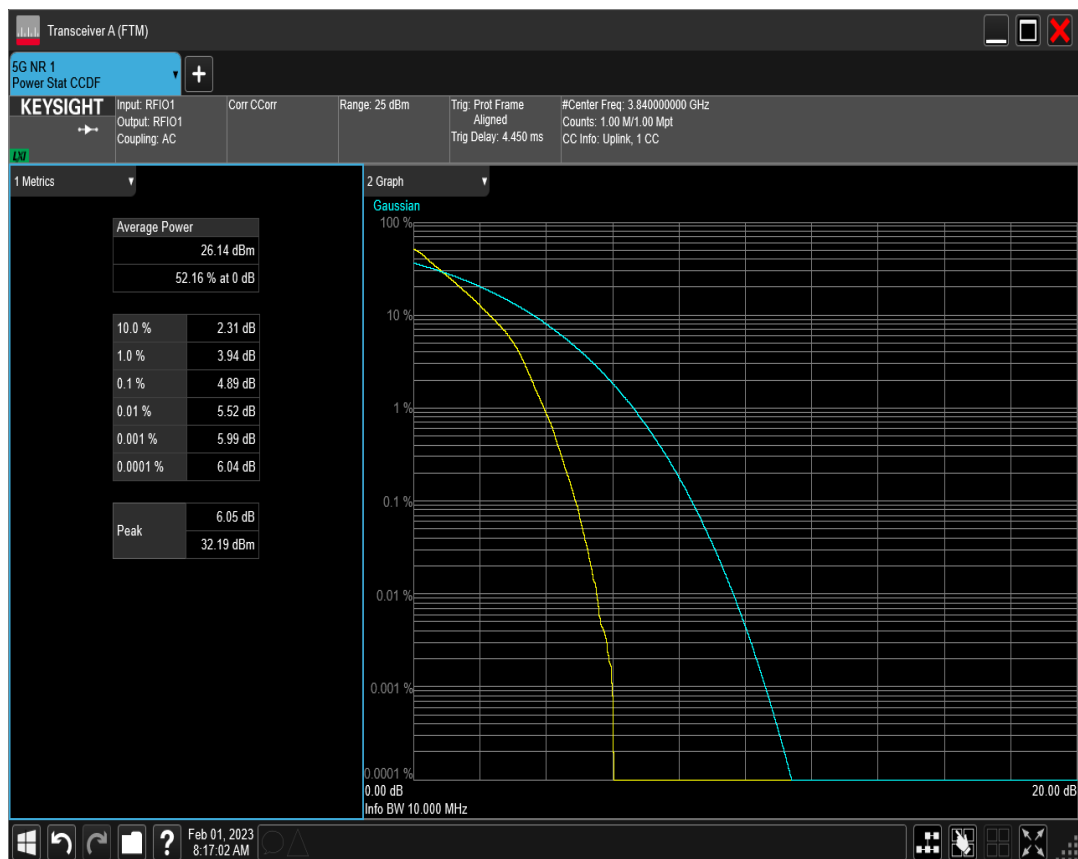
Note: Only the worst case shown in the report.

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

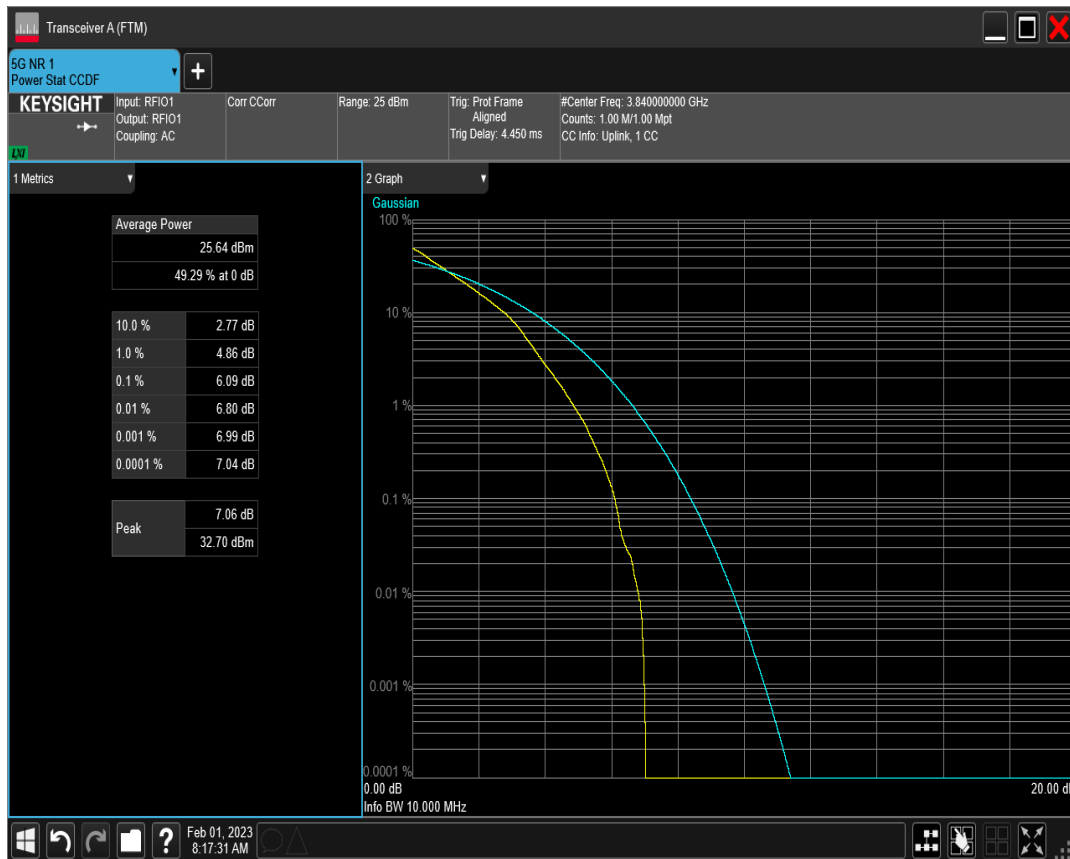
| Band           | SCS<br>(kHz) | Bandwidth<br>(MHz) | UL<br>Channel | RB<br>Allocation | Modulation | Result<br>(dB) | high Limit<br>(dB) | Verdict |
|----------------|--------------|--------------------|---------------|------------------|------------|----------------|--------------------|---------|
| n77(3700-3980) | 30           | 10                 | 656000        | 24@0             | DFT_BPSK   | 4.89           | 13                 | PASS    |
| n77(3700-3980) | 30           | 10                 | 656000        | 24@0             | DFT_QPSK   | 6.09           | 13                 | PASS    |
| n77(3700-3980) | 30           | 10                 | 656000        | 24@0             | DFT_QAM16  | 6.81           | 13                 | PASS    |
| n77(3700-3980) | 30           | 10                 | 656000        | 24@0             | DFT_QAM64  | 7.01           | 13                 | PASS    |
| n77(3700-3980) | 30           | 10                 | 656000        | 24@0             | DFT_QAM256 | 7.17           | 13                 | PASS    |
| n77(3700-3980) | 30           | 15                 | 656000        | 36@0             | DFT_BPSK   | 4.97           | 13                 | PASS    |
| n77(3700-3980) | 30           | 15                 | 656000        | 36@0             | DFT_QPSK   | 6.19           | 13                 | PASS    |
| n77(3700-3980) | 30           | 15                 | 656000        | 36@0             | DFT_QAM16  | 6.94           | 13                 | PASS    |
| n77(3700-3980) | 30           | 15                 | 656000        | 36@0             | DFT_QAM64  | 7.05           | 13                 | PASS    |
| n77(3700-3980) | 30           | 15                 | 656000        | 36@0             | DFT_QAM256 | 7.25           | 13                 | PASS    |
| n77(3700-3980) | 30           | 20                 | 656000        | 50@0             | DFT_BPSK   | 4.78           | 13                 | PASS    |
| n77(3700-3980) | 30           | 20                 | 656000        | 50@0             | DFT_QPSK   | 6.13           | 13                 | PASS    |
| n77(3700-3980) | 30           | 20                 | 656000        | 50@0             | DFT_QAM16  | 6.87           | 13                 | PASS    |
| n77(3700-3980) | 30           | 20                 | 656000        | 50@0             | DFT_QAM64  | 7.19           | 13                 | PASS    |
| n77(3700-3980) | 30           | 20                 | 656000        | 50@0             | DFT_QAM256 | 7.11           | 13                 | PASS    |
| n77(3700-3980) | 30           | 30                 | 656000        | 75@0             | DFT_BPSK   | 4.86           | 13                 | PASS    |
| n77(3700-3980) | 30           | 30                 | 656000        | 75@0             | DFT_QPSK   | 6.17           | 13                 | PASS    |
| n77(3700-3980) | 30           | 30                 | 656000        | 75@0             | DFT_QAM16  | 6.95           | 13                 | PASS    |
| n77(3700-3980) | 30           | 30                 | 656000        | 75@0             | DFT_QAM64  | 7.11           | 13                 | PASS    |
| n77(3700-3980) | 30           | 30                 | 656000        | 75@0             | DFT_QAM256 | 7.21           | 13                 | PASS    |
| n77(3700-3980) | 30           | 40                 | 656000        | 100@0            | DFT_BPSK   | 4.88           | 13                 | PASS    |
| n77(3700-3980) | 30           | 40                 | 656000        | 100@0            | DFT_QPSK   | 6.09           | 13                 | PASS    |
| n77(3700-3980) | 30           | 40                 | 656000        | 100@0            | DFT_QAM16  | 6.87           | 13                 | PASS    |
| n77(3700-3980) | 30           | 40                 | 656000        | 100@0            | DFT_QAM64  | 6.98           | 13                 | PASS    |
| n77(3700-3980) | 30           | 40                 | 656000        | 100@0            | DFT_QAM256 | 7.26           | 13                 | PASS    |
| n77(3700-3980) | 30           | 50                 | 656000        | 128@0            | DFT_BPSK   | 5.15           | 13                 | PASS    |
| n77(3700-3980) | 30           | 50                 | 656000        | 128@0            | DFT_QPSK   | 6.12           | 13                 | PASS    |
| n77(3700-3980) | 30           | 50                 | 656000        | 128@0            | DFT_QAM16  | 6.88           | 13                 | PASS    |
| n77(3700-3980) | 30           | 50                 | 656000        | 128@0            | DFT_QAM64  | 6.99           | 13                 | PASS    |
| n77(3700-3980) | 30           | 50                 | 656000        | 128@0            | DFT_QAM256 | 7.08           | 13                 | PASS    |
| n77(3700-3980) | 30           | 60                 | 656000        | 162@0            | DFT_BPSK   | 4.81           | 13                 | PASS    |
| n77(3700-3980) | 30           | 60                 | 656000        | 162@0            | DFT_QPSK   | 6.18           | 13                 | PASS    |
| n77(3700-3980) | 30           | 60                 | 656000        | 162@0            | DFT_QAM16  | 6.95           | 13                 | PASS    |
| n77(3700-3980) | 30           | 60                 | 656000        | 162@0            | DFT_QAM64  | 7.17           | 13                 | PASS    |
| n77(3700-3980) | 30           | 60                 | 656000        | 162@0            | DFT_QAM256 | 7.30           | 13                 | PASS    |
| n77(3700-3980) | 30           | 80                 | 656000        | 216@0            | DFT_BPSK   | 5.49           | 13                 | PASS    |
| n77(3700-3980) | 30           | 80                 | 656000        | 216@0            | DFT_QPSK   | 6.18           | 13                 | PASS    |
| n77(3700-3980) | 30           | 80                 | 656000        | 216@0            | DFT_QAM16  | 6.84           | 13                 | PASS    |

|                |    |     |        |       |            |      |    |      |
|----------------|----|-----|--------|-------|------------|------|----|------|
| n77(3700-3980) | 30 | 80  | 656000 | 216@0 | DFT_QAM64  | 7.00 | 13 | PASS |
| n77(3700-3980) | 30 | 80  | 656000 | 216@0 | DFT_QAM256 | 7.07 | 13 | PASS |
| n77(3700-3980) | 30 | 90  | 656000 | 240@0 | DFT_BPSK   | 5.23 | 13 | PASS |
| n77(3700-3980) | 30 | 90  | 656000 | 240@0 | DFT_QPSK   | 6.13 | 13 | PASS |
| n77(3700-3980) | 30 | 90  | 656000 | 240@0 | DFT_QAM16  | 6.86 | 13 | PASS |
| n77(3700-3980) | 30 | 90  | 656000 | 240@0 | DFT_QAM64  | 7.15 | 13 | PASS |
| n77(3700-3980) | 30 | 90  | 656000 | 240@0 | DFT_QAM256 | 7.10 | 13 | PASS |
| n77(3700-3980) | 30 | 100 | 656000 | 270@0 | DFT_BPSK   | 5.55 | 13 | PASS |
| n77(3700-3980) | 30 | 100 | 656000 | 270@0 | DFT_QPSK   | 6.09 | 13 | PASS |
| n77(3700-3980) | 30 | 100 | 656000 | 270@0 | DFT_QAM16  | 6.87 | 13 | PASS |
| n77(3700-3980) | 30 | 100 | 656000 | 270@0 | DFT_QAM64  | 7.11 | 13 | PASS |
| n77(3700-3980) | 30 | 100 | 656000 | 270@0 | DFT_QAM256 | 7.01 | 13 | PASS |

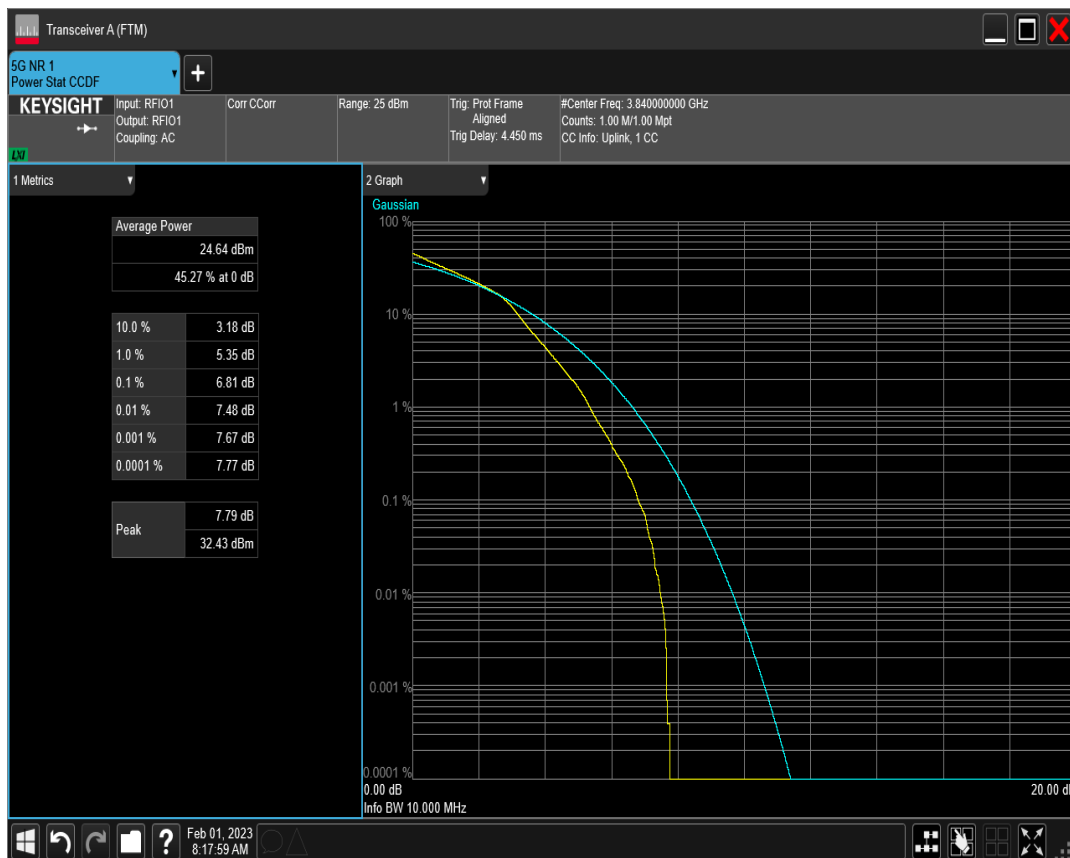
n77(3700-3980) SCS=30kHz DFT\_BPSK BW=10MHz Channel=656000 RB=24@0



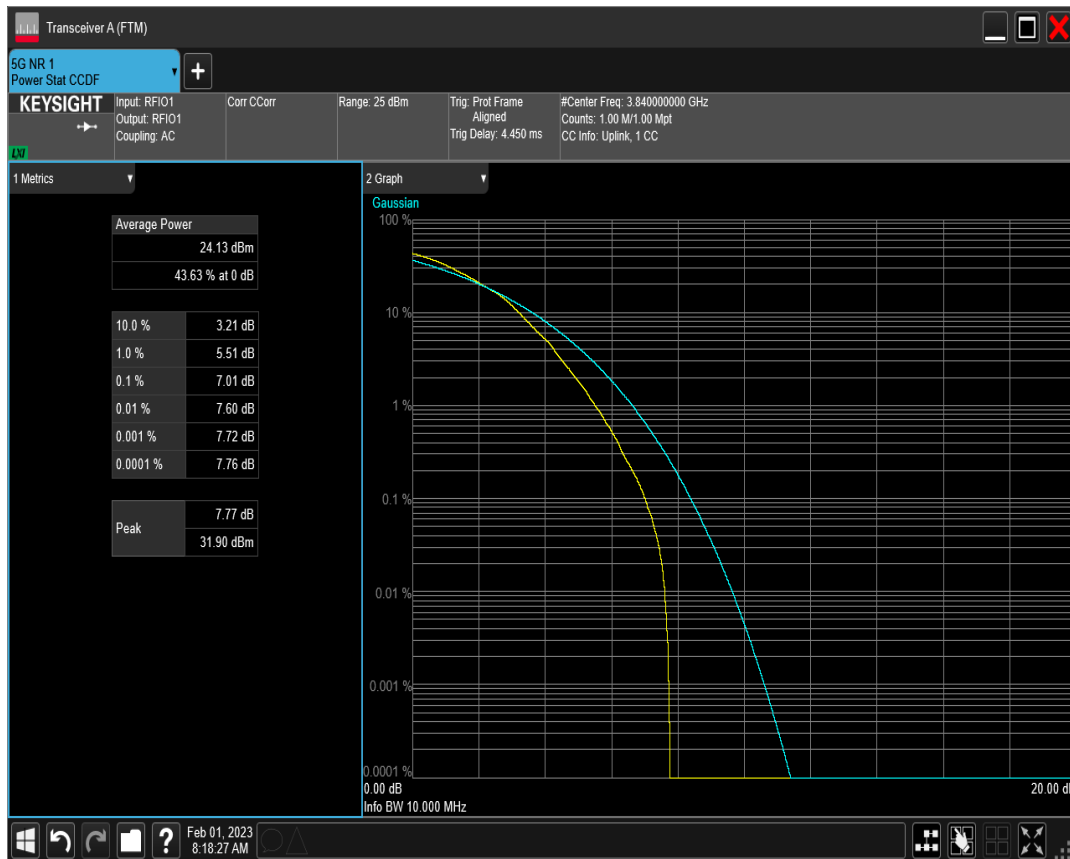
n77(3700-3980) SCS=30kHz DFT\_QPSK BW=10MHz Channel=656000 RB=24@0



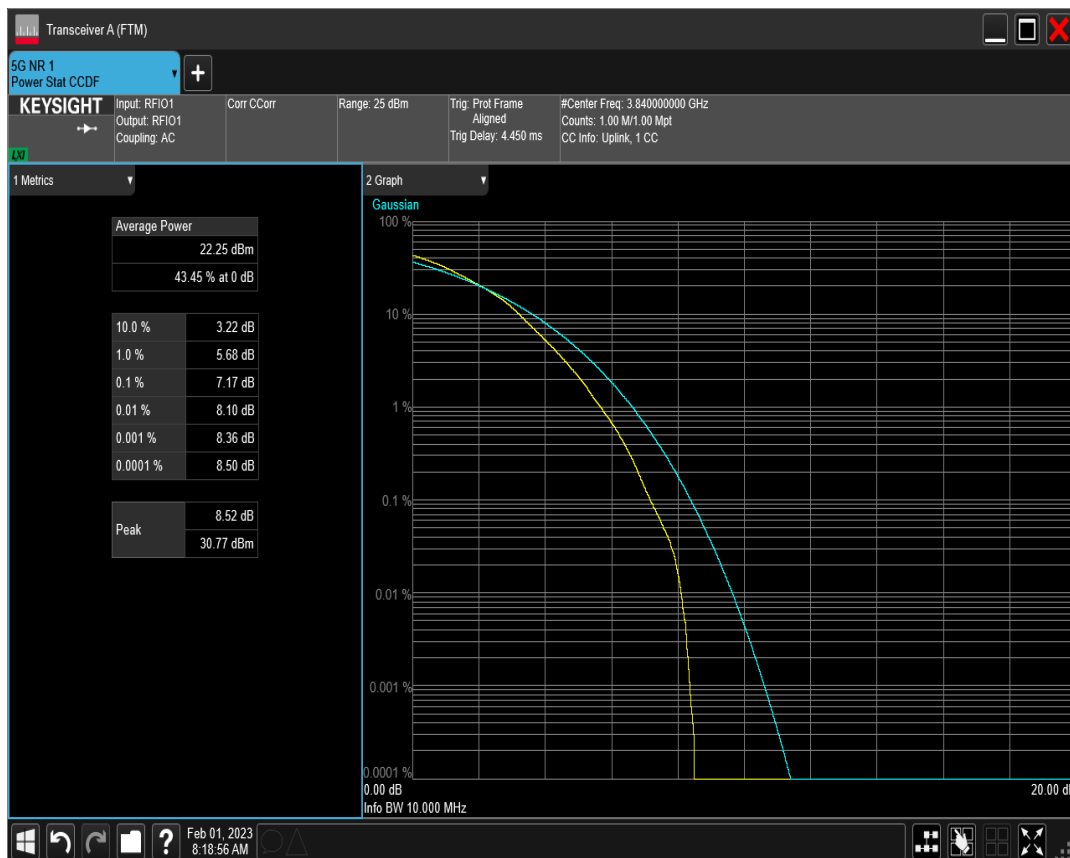
n77(3700-3980) SCS=30kHz DFT\_QAM16 BW=10MHz Channel=656000 RB=24@0



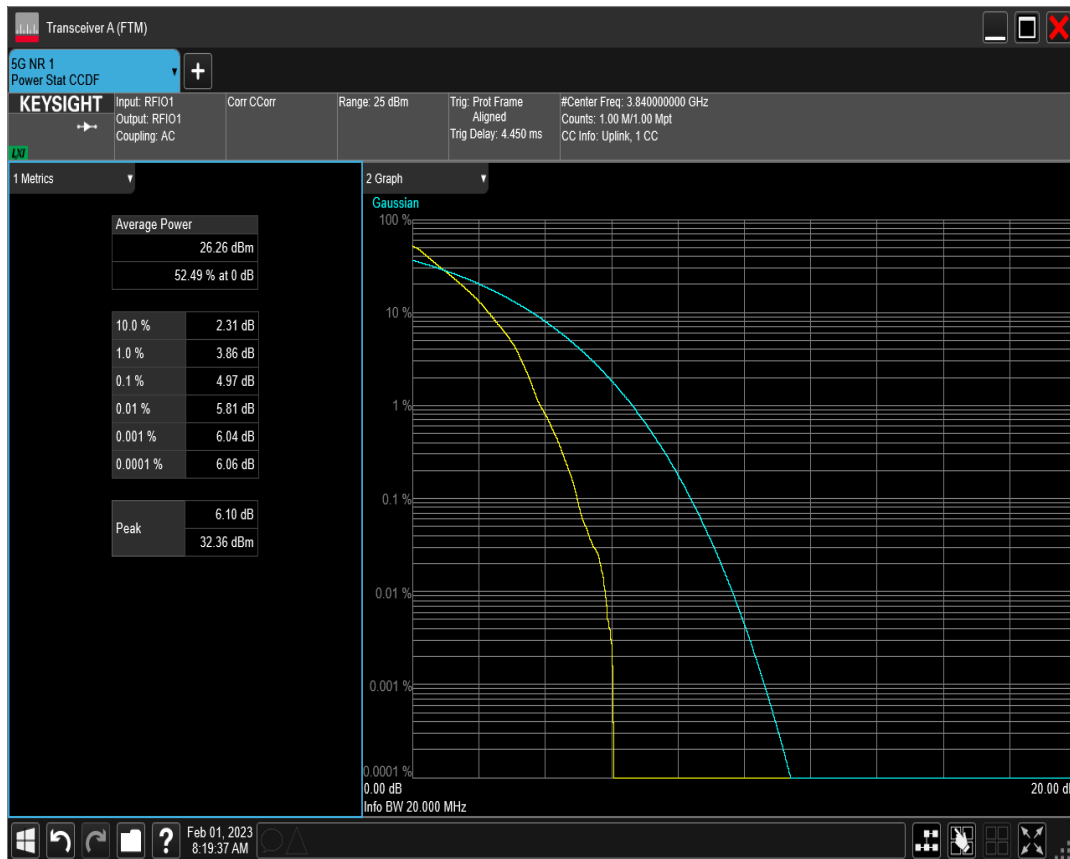
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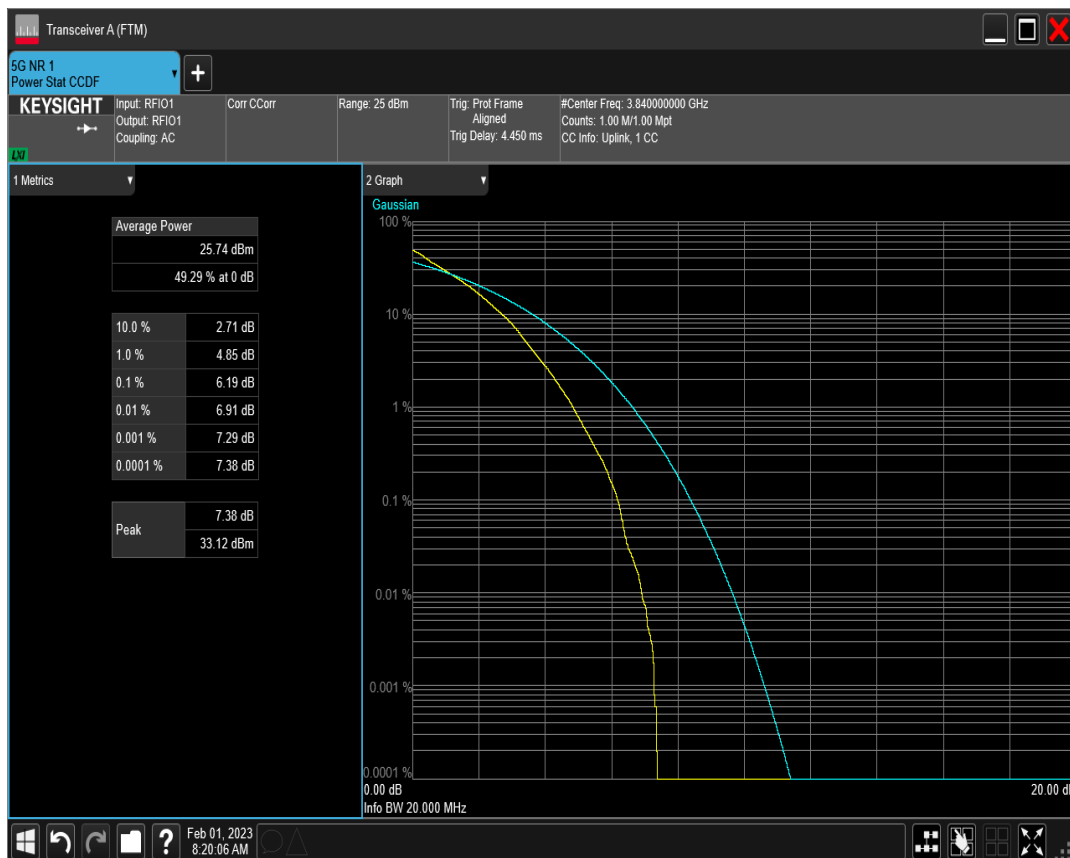
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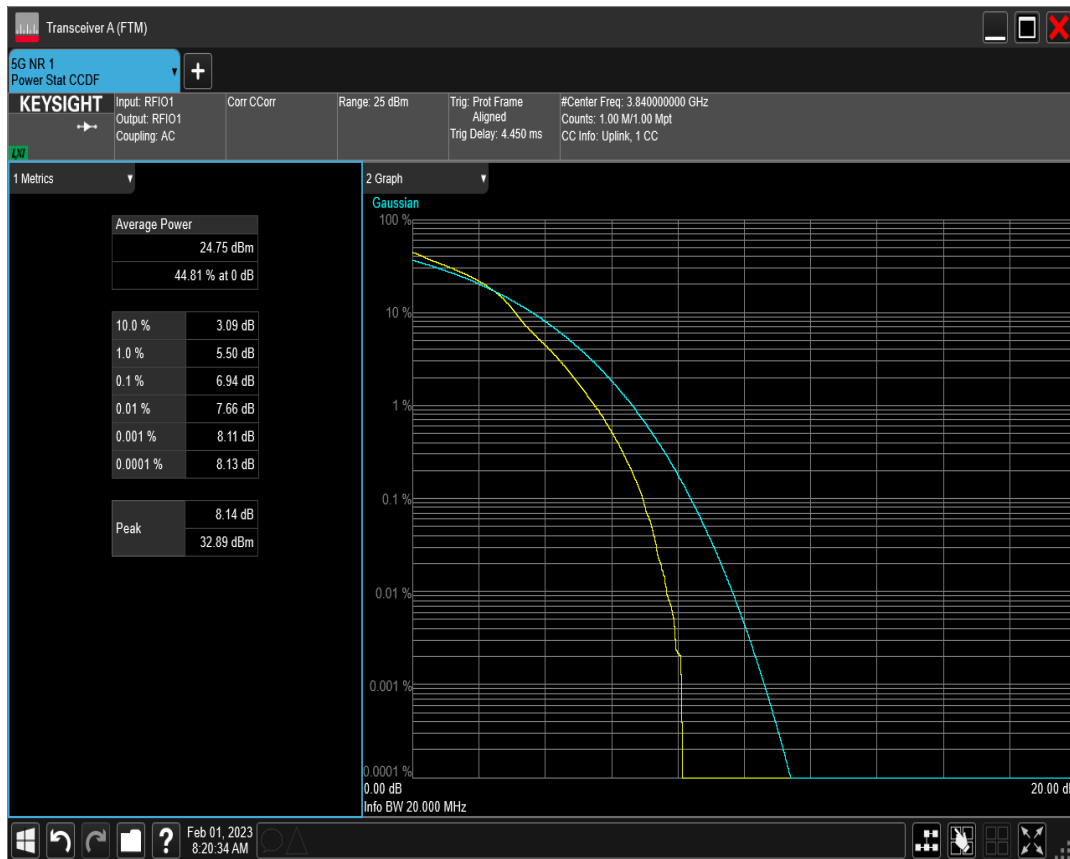
n77(3700-3980) SCS=30kHz DFT\_BPSK BW=15MHz Channel=656000 RB=36@0



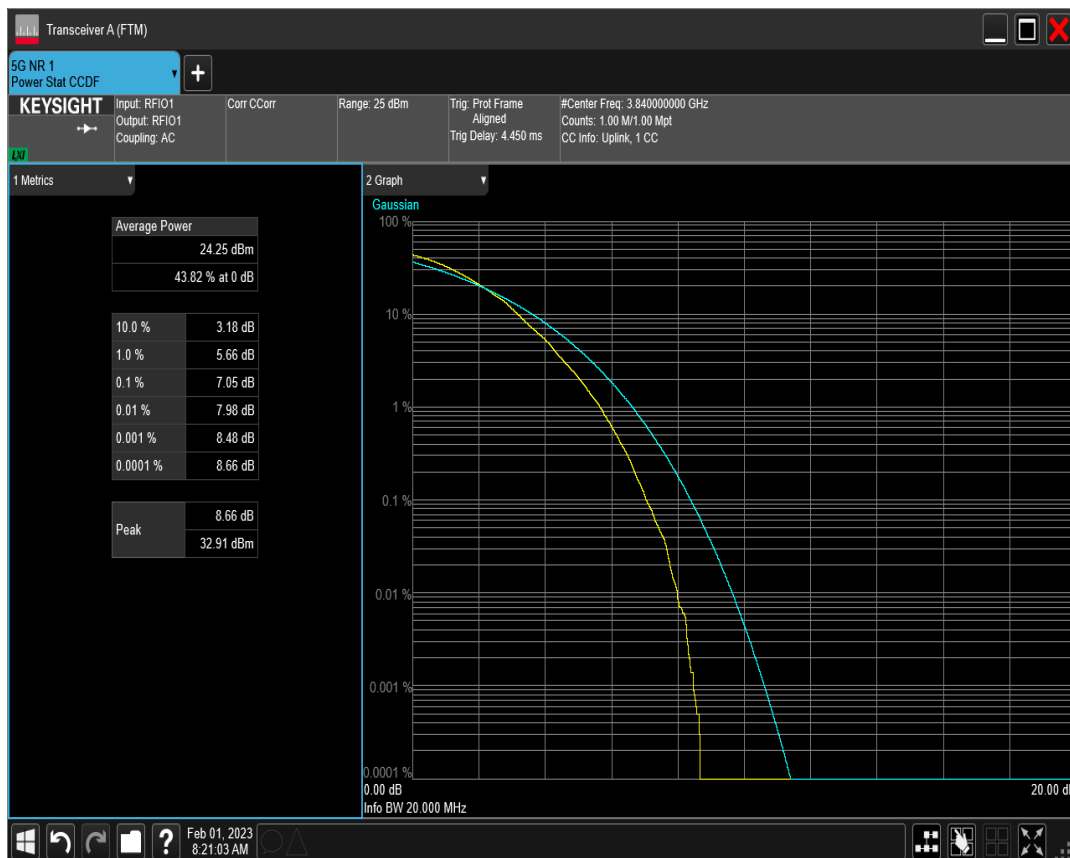
n77(3700-3980) SCS=30kHz DFT\_QPSK BW=15MHz Channel=656000 RB=36@0



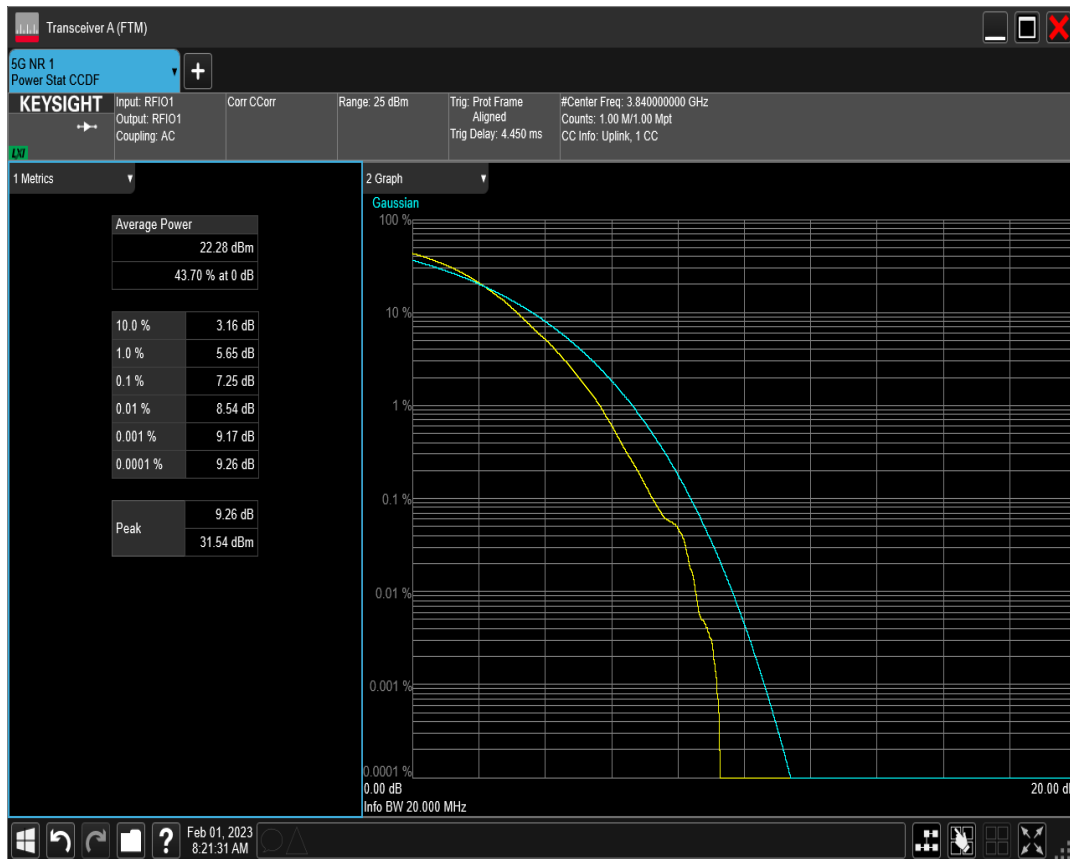
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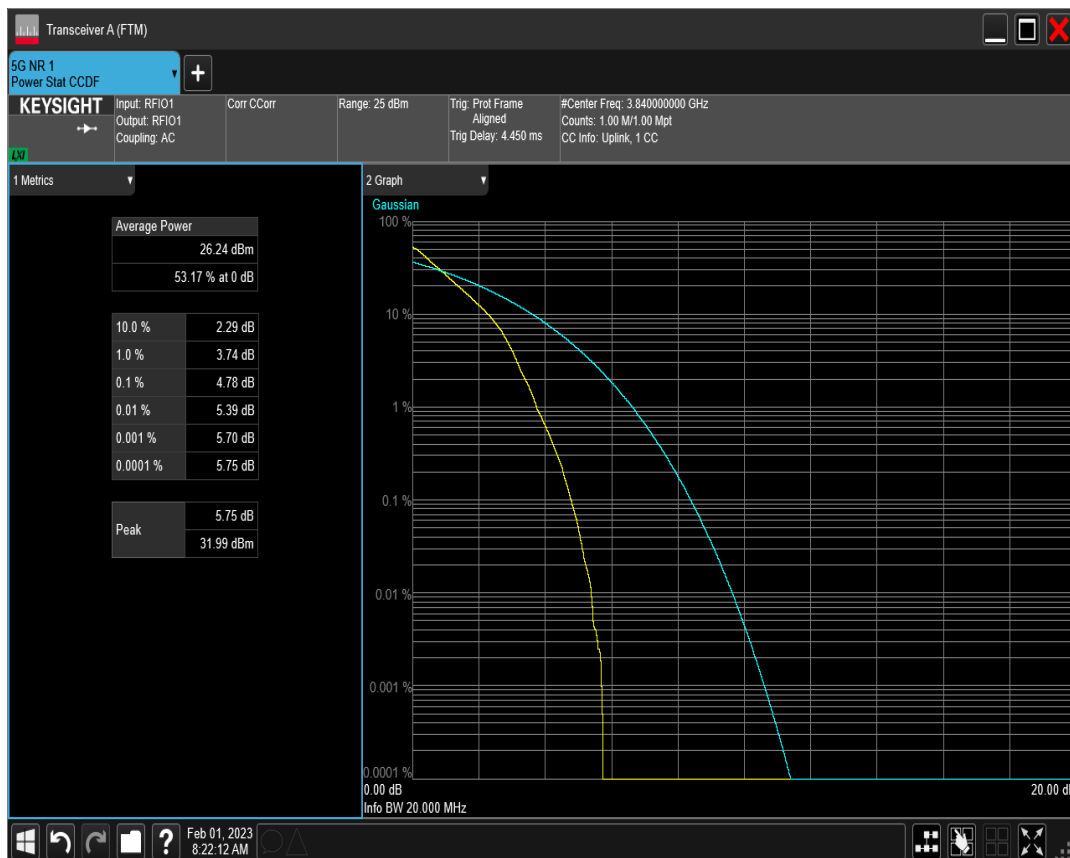
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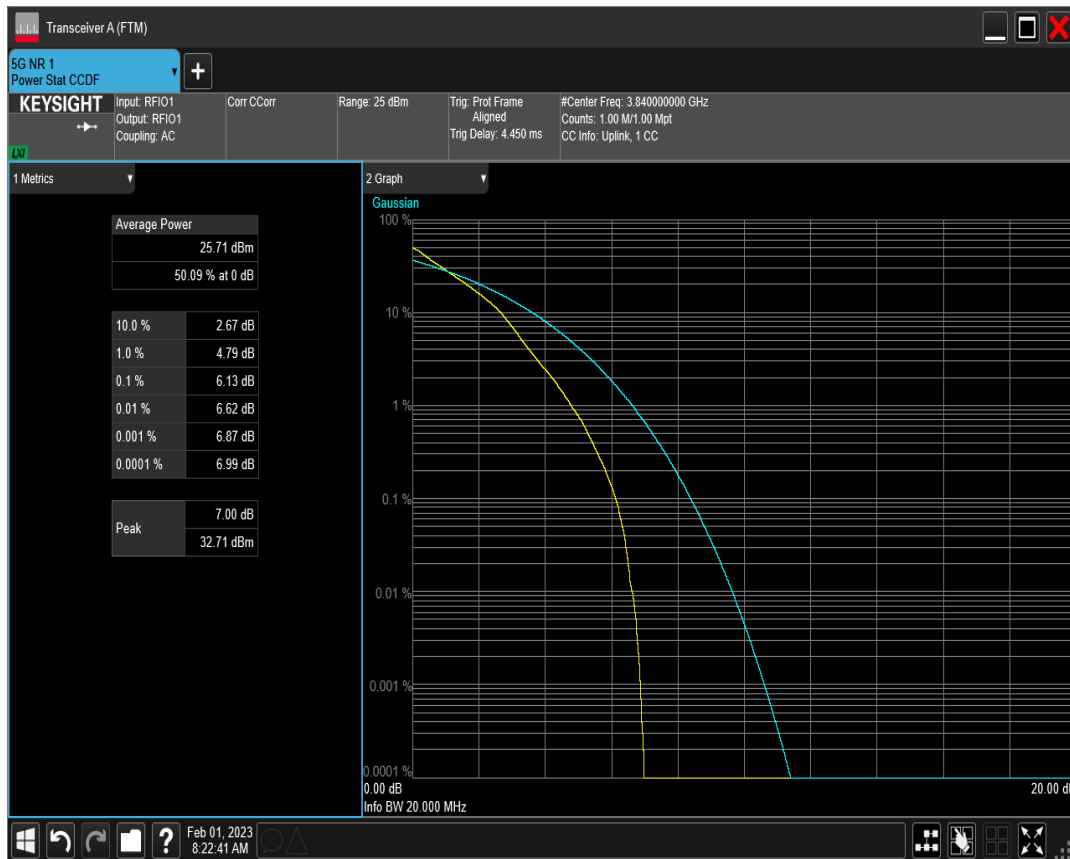
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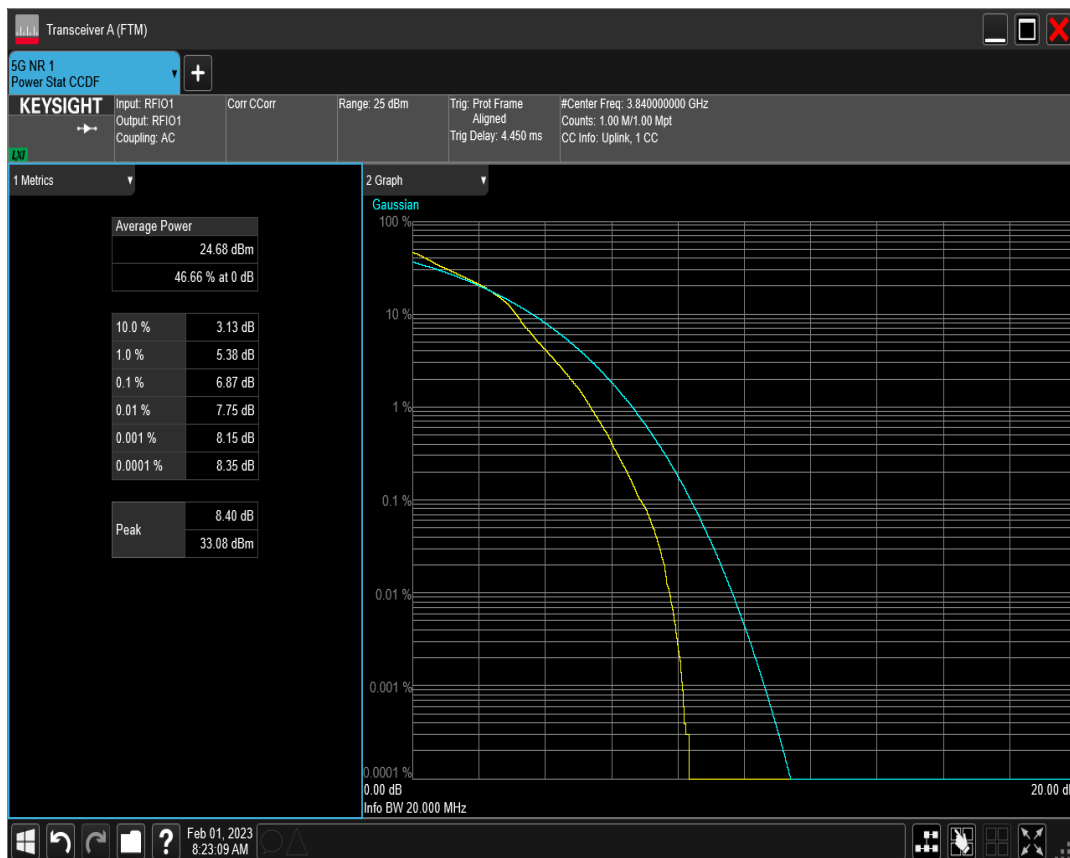
n77(3700-3980) SCS=30kHz DFT\_BPSK BW=20MHz Channel=656000 RB=50@0



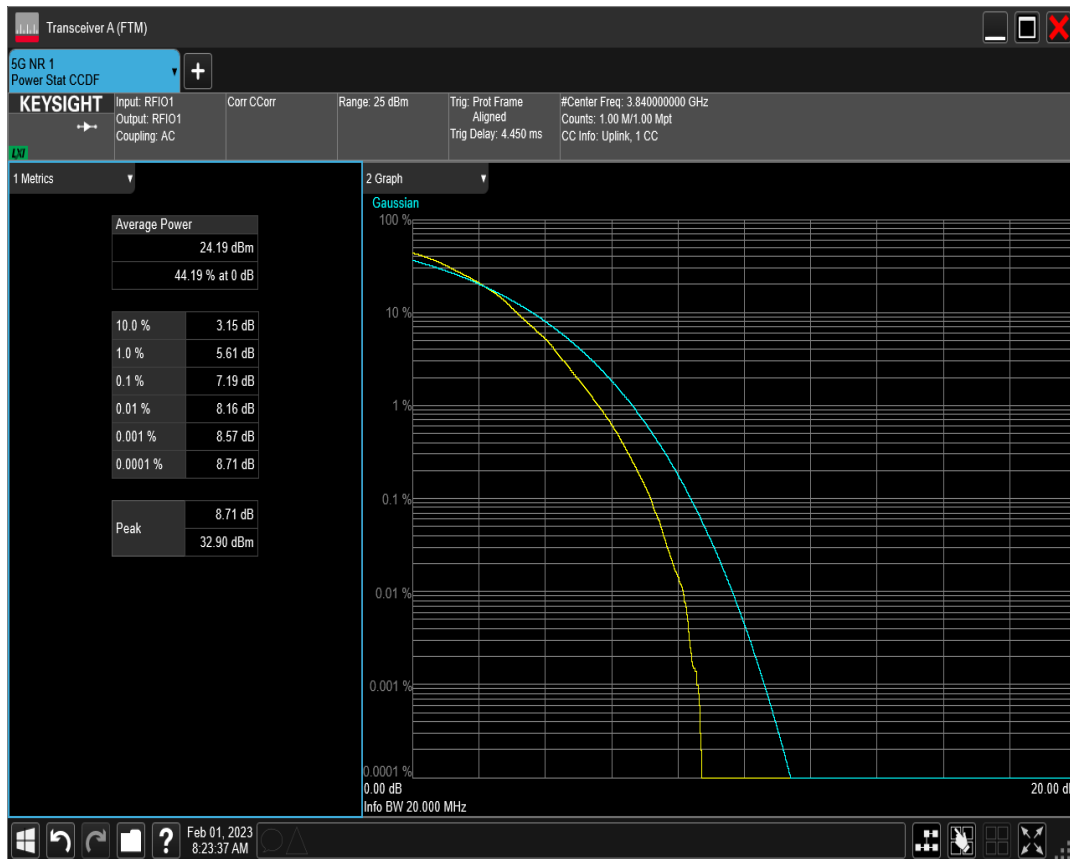
n77(3700-3980) SCS=30kHz DFT\_QPSK BW=20MHz Channel=656000 RB=50@0



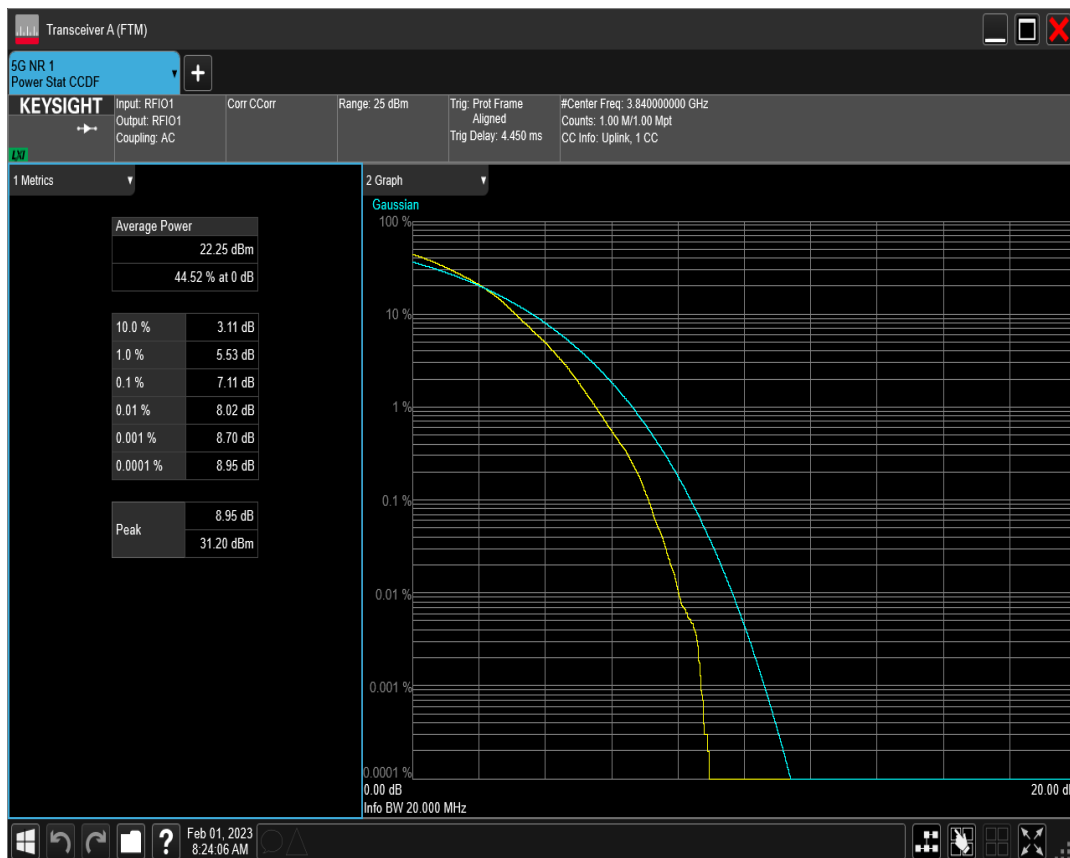
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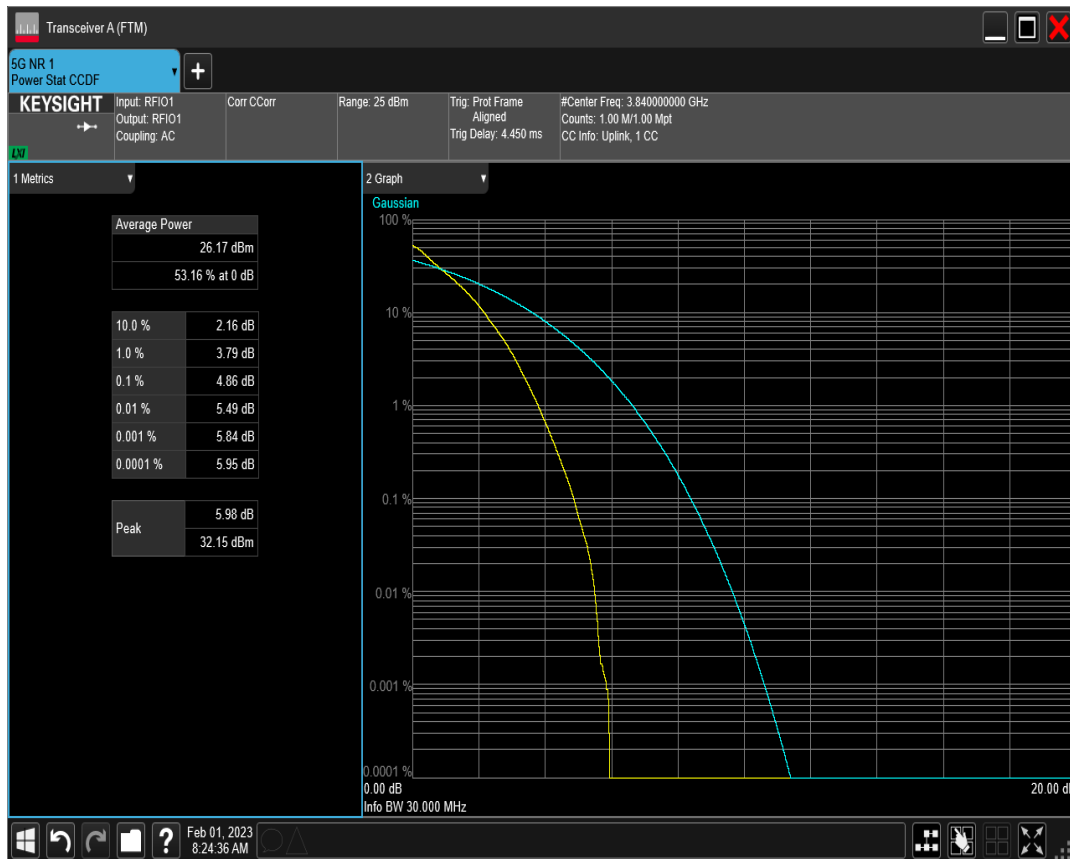
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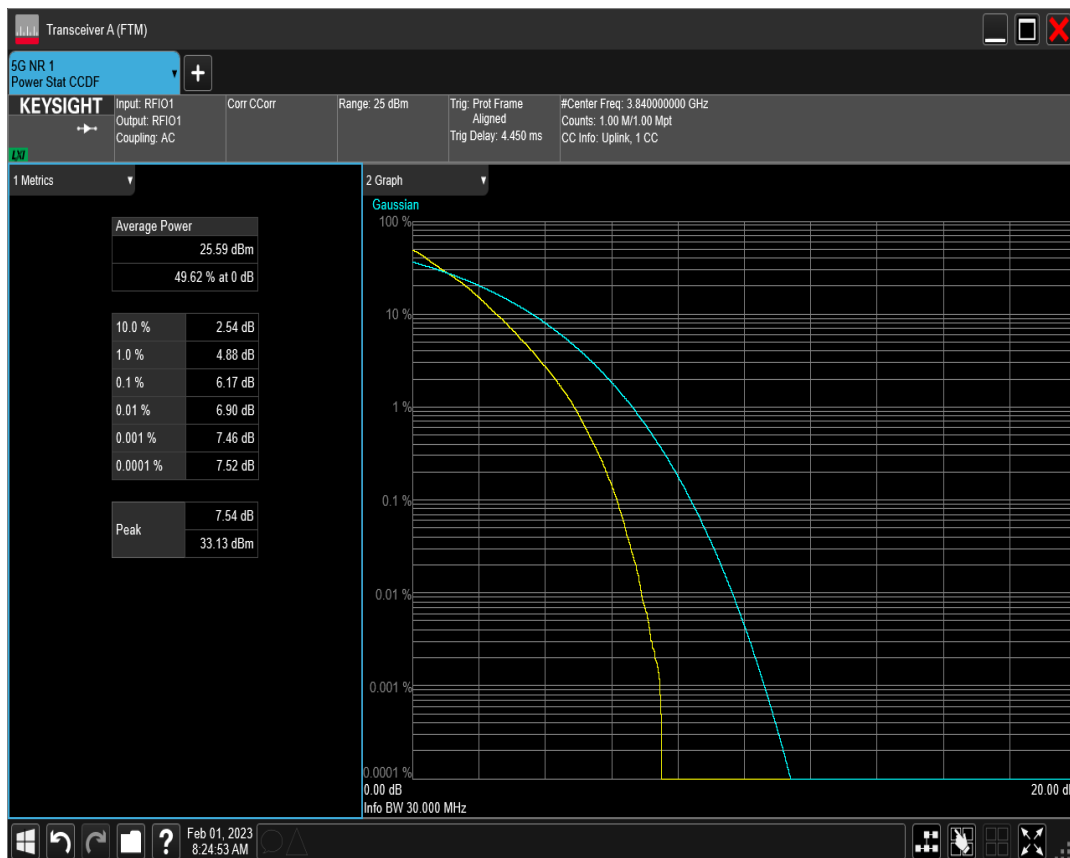
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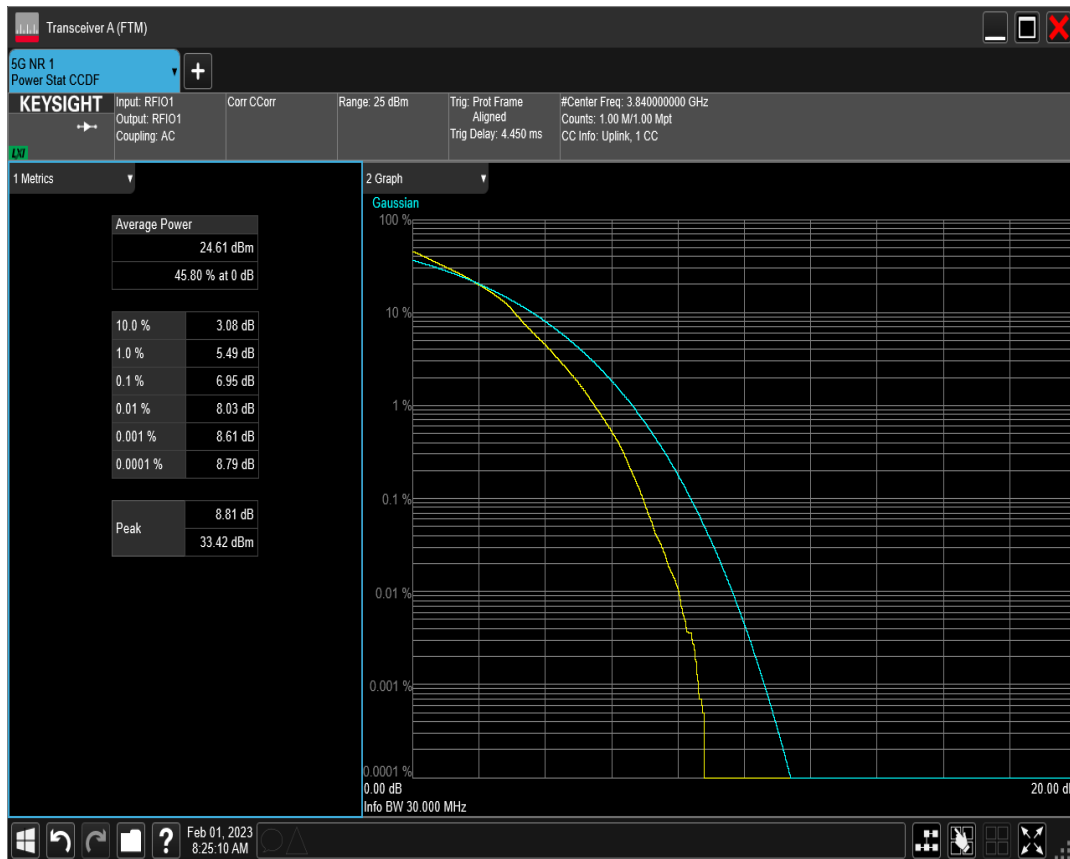
n77(3700-3980) SCS=30kHz DFT\_BPSK BW=30MHz Channel=656000 RB=75@0



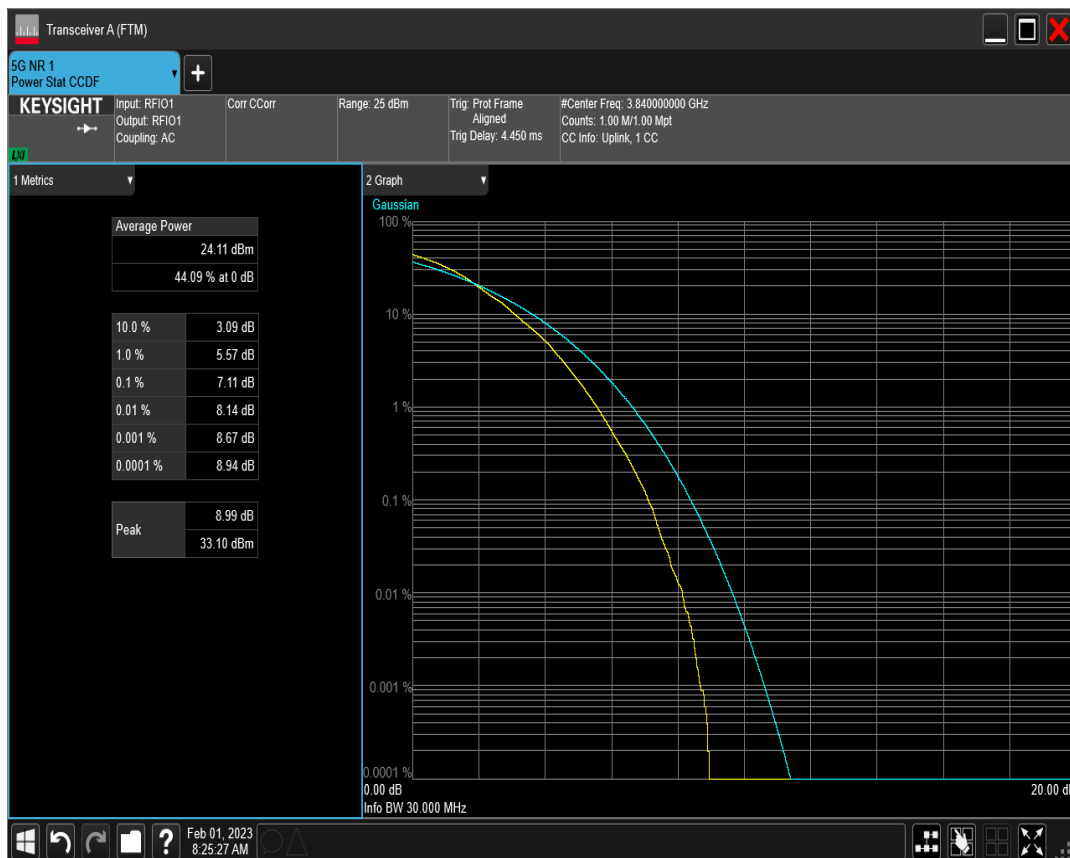
n77(3700-3980) SCS=30kHz DFT\_QPSK BW=30MHz Channel=656000 RB=75@0



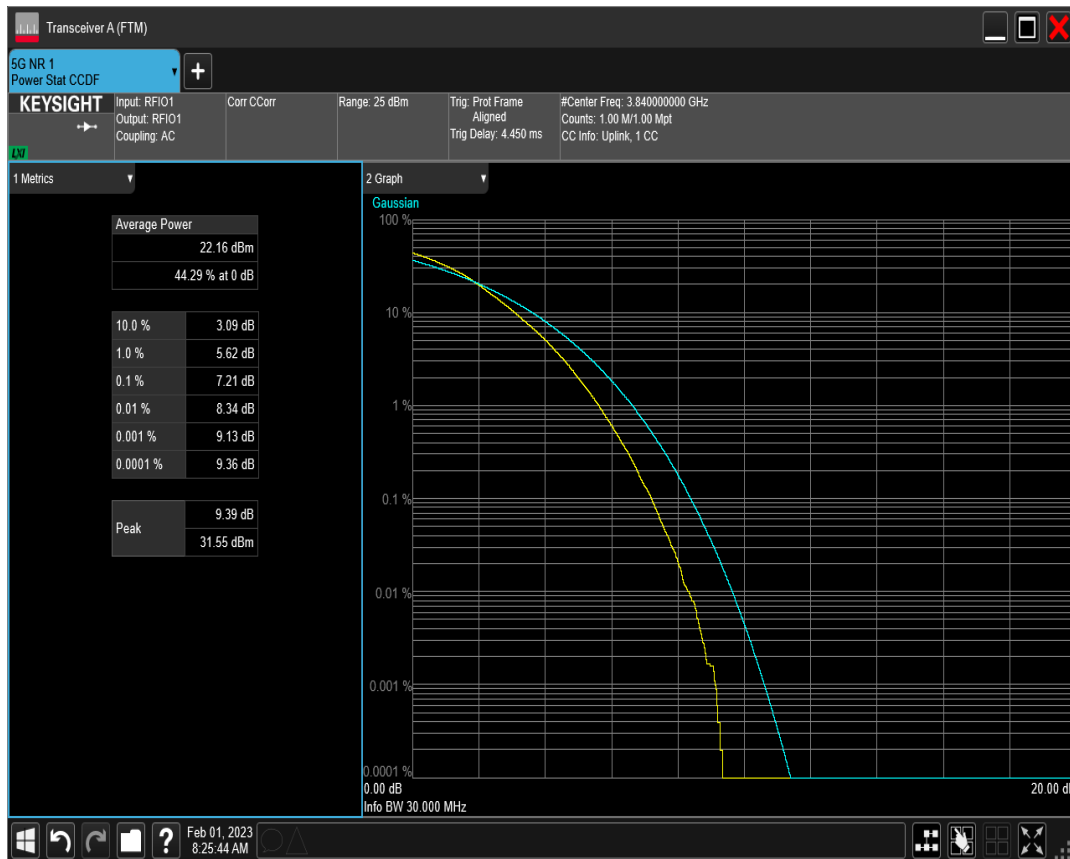
n77(3700-3980) SCS=30kHz DFT\_QAM16 BW=30MHz Channel=656000 RB=75@0



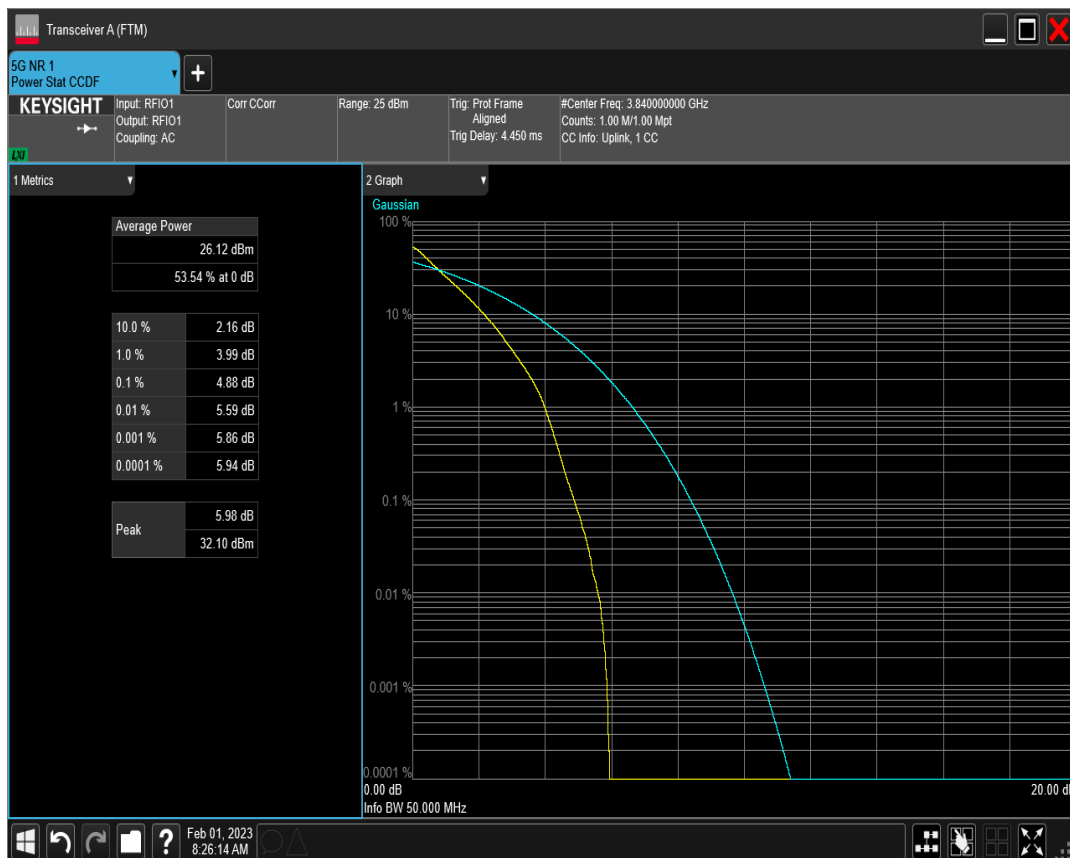
n77(3700-3980) SCS=30kHz DFT\_QAM64 BW=30MHz Channel=656000 RB=75@0



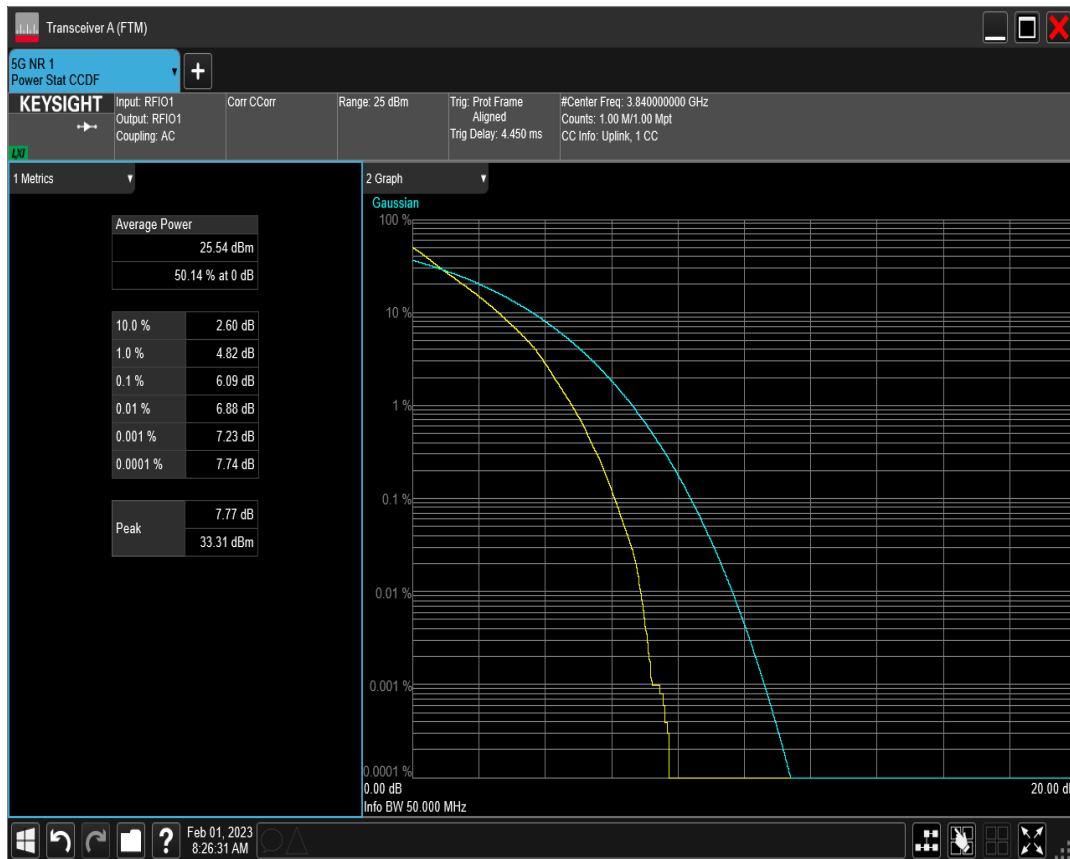
n77(3700-3980) SCS=30kHz DFT\_QAM256 BW=30MHz Channel=656000 RB=75@0



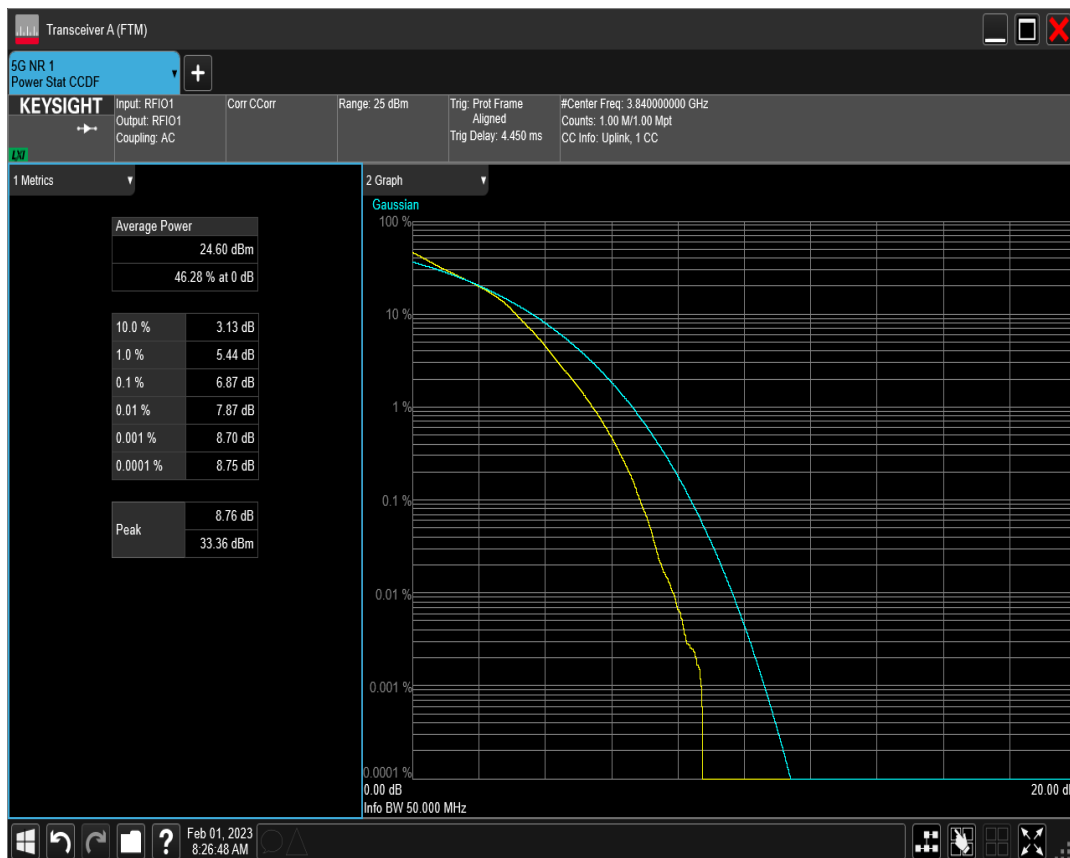
n77(3700-3980) SCS=30kHz DFT\_BPSK BW=40MHz Channel=656000 RB=100@0



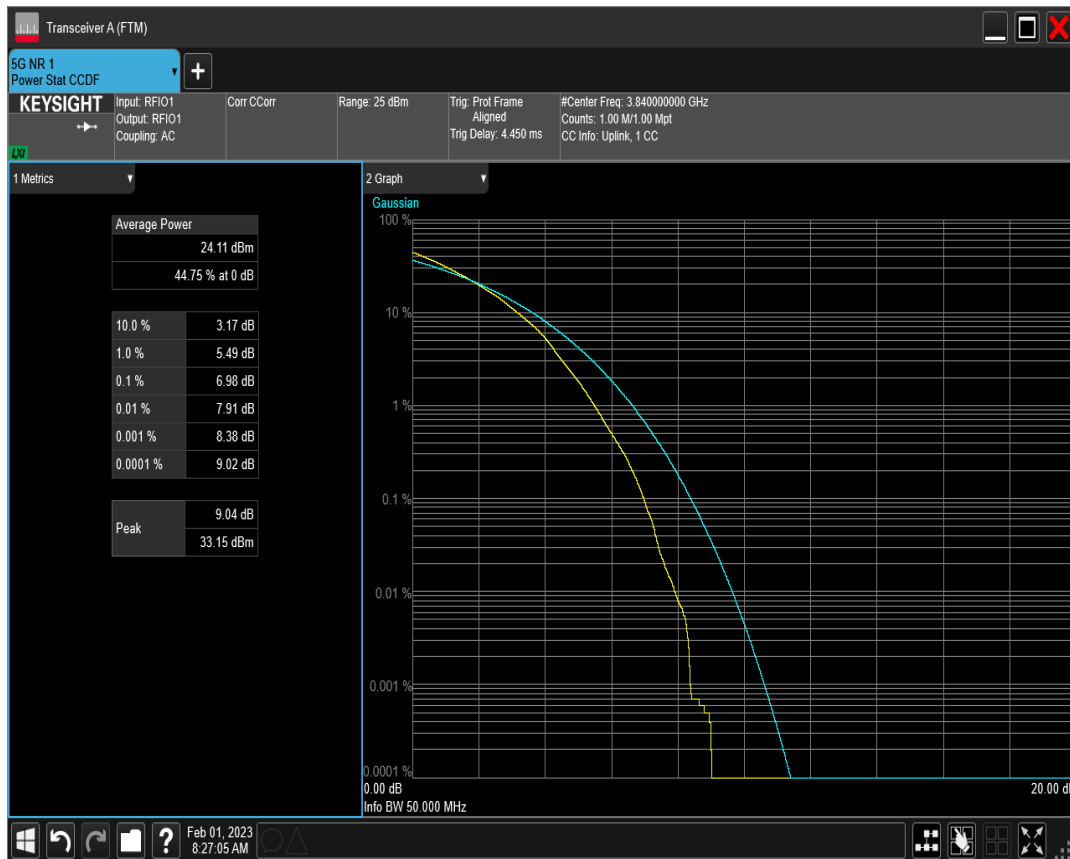
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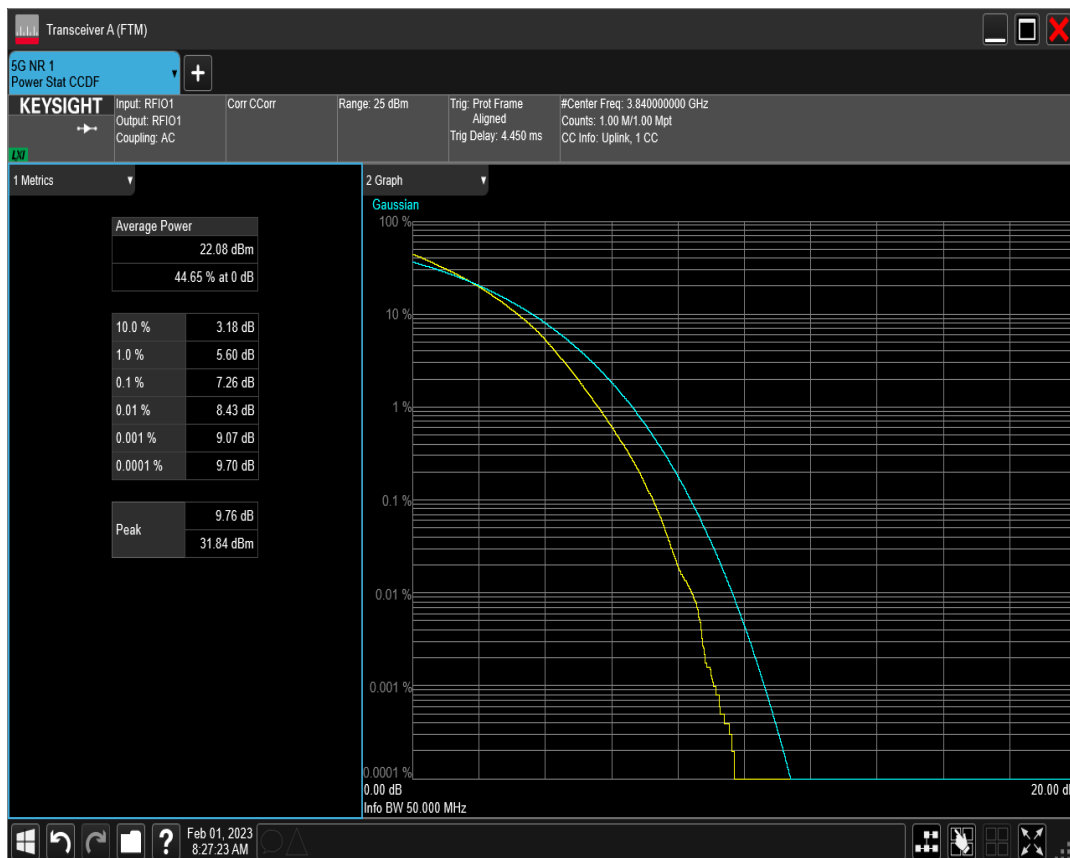
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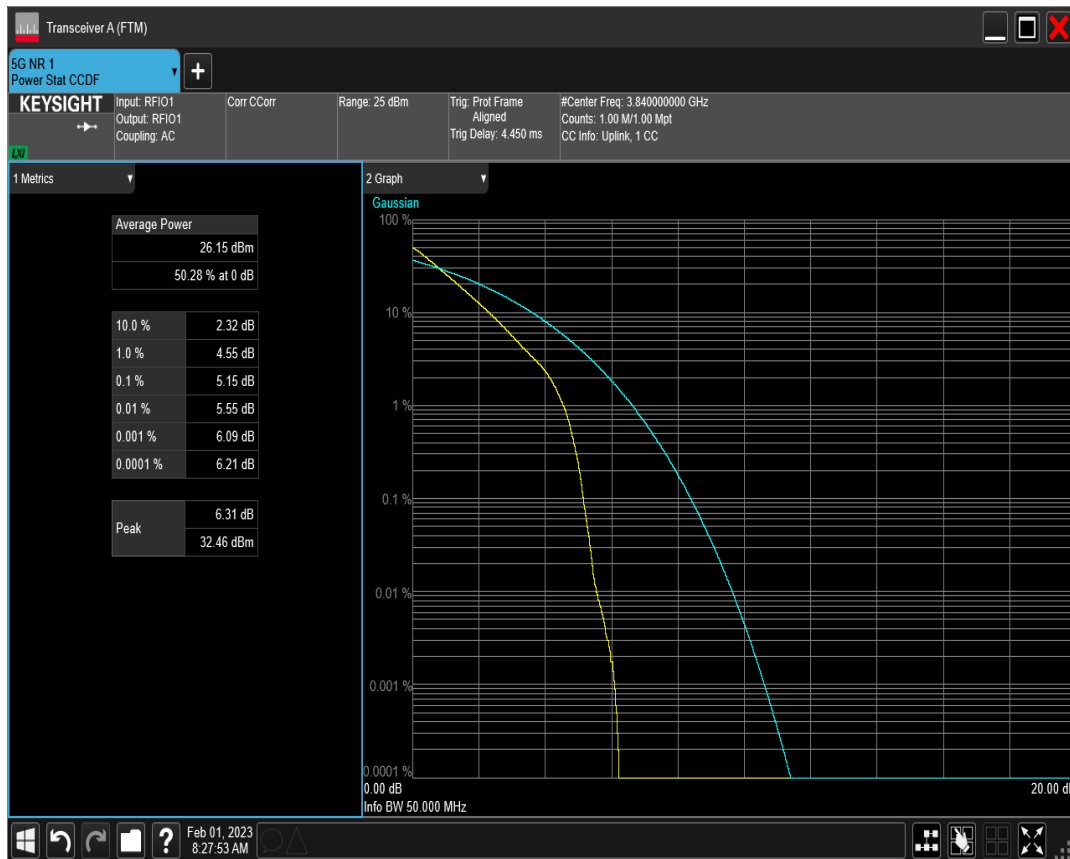
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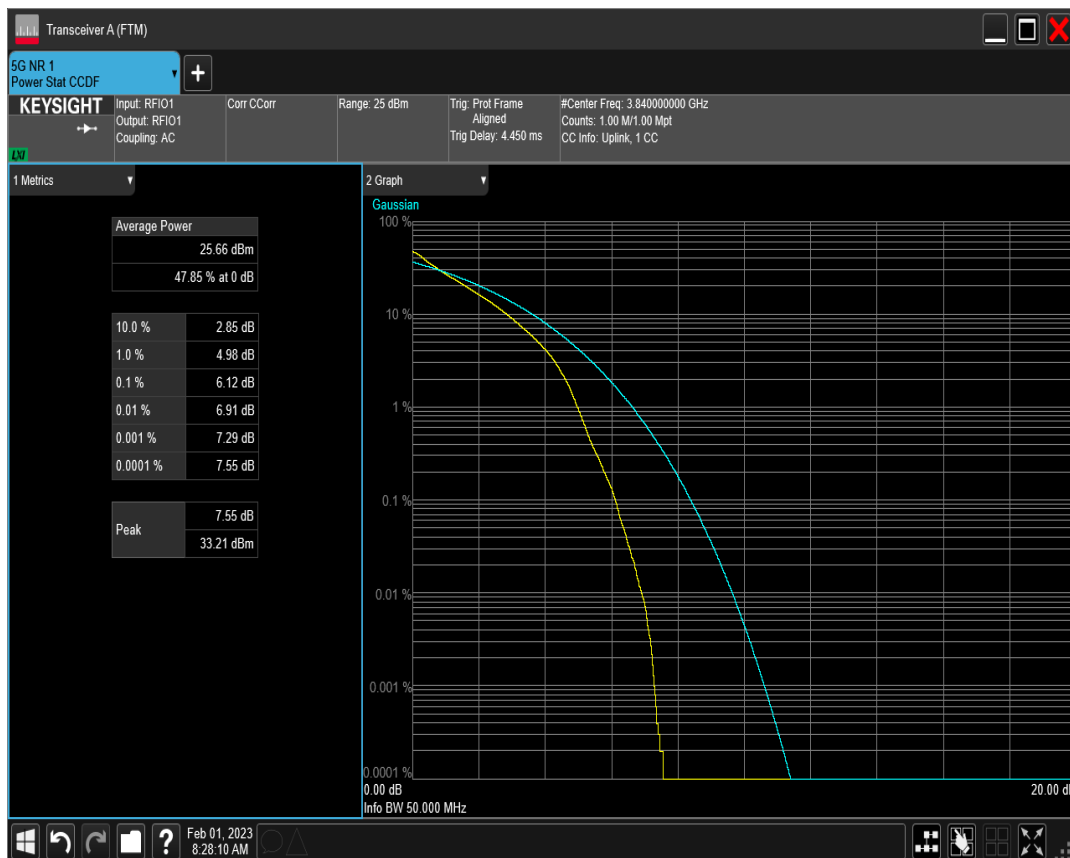
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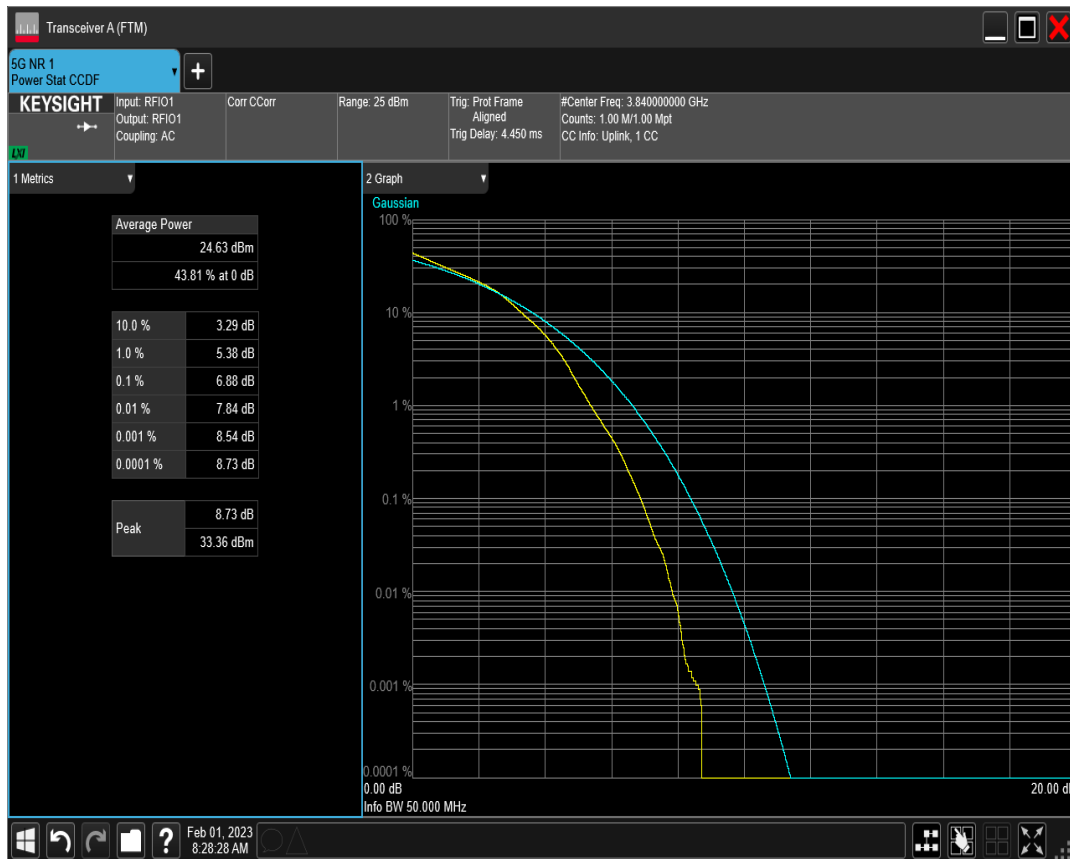
n77(3700-3980) SCS=30kHz DFT\_BPSK BW=50MHz Channel=656000 RB=128@0



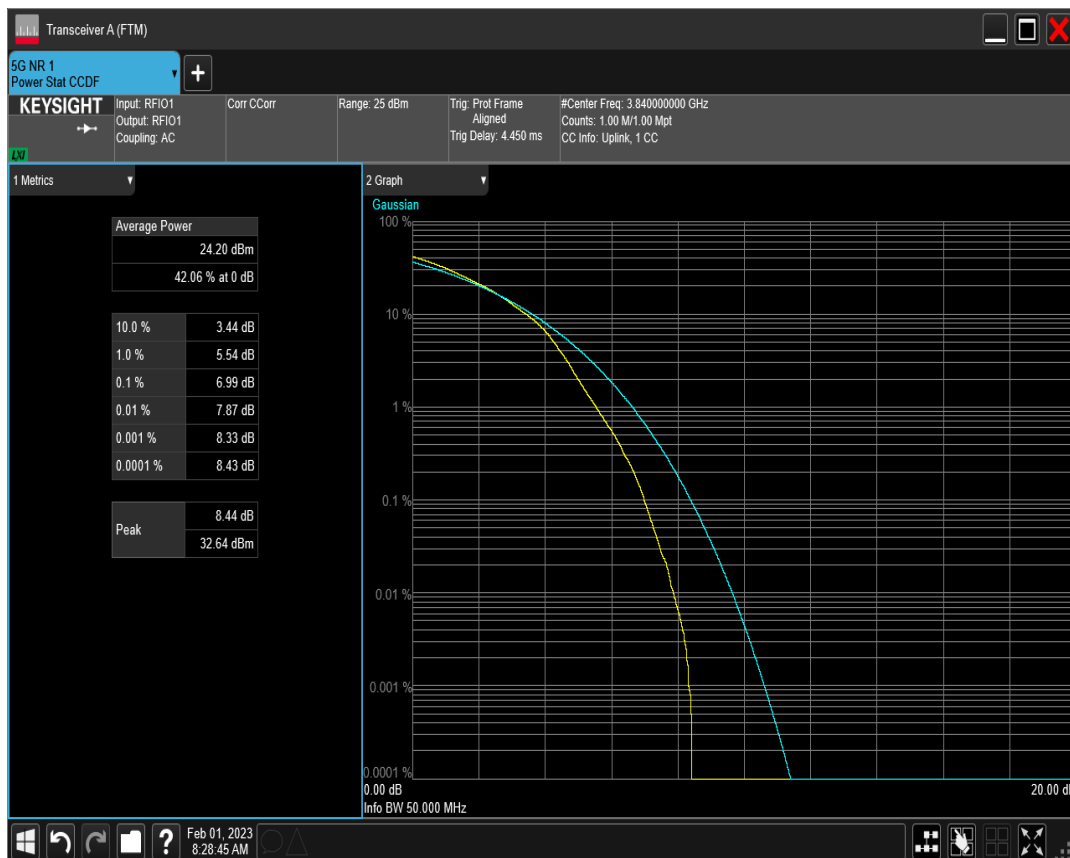
n77(3700-3980) SCS=30kHz DFT\_QPSK BW=50MHz Channel=656000 RB=128@0



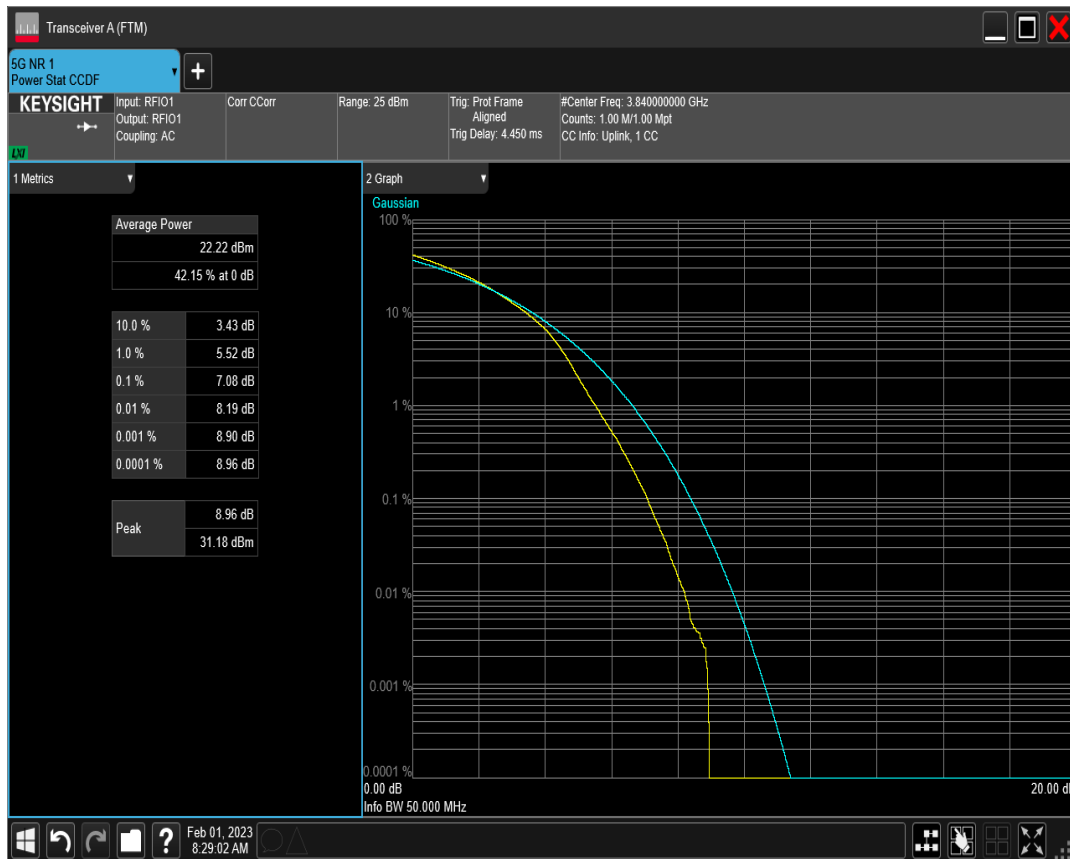
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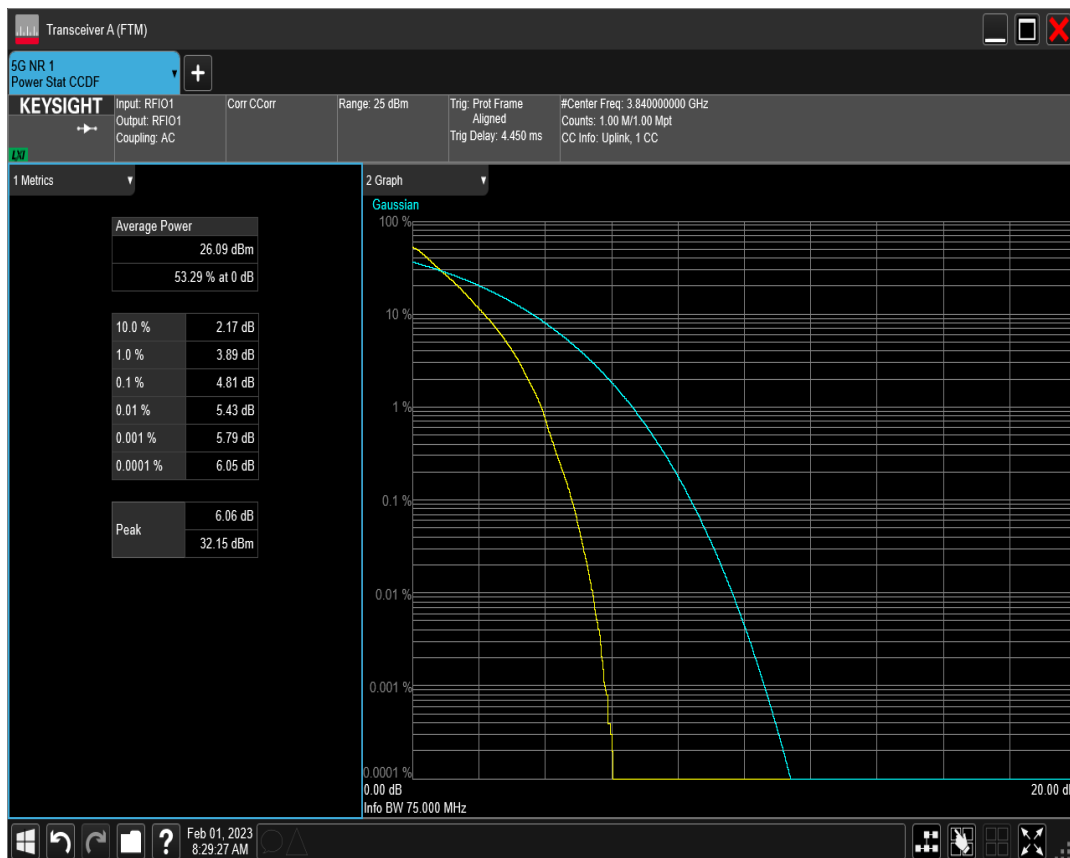
n77(3700-3980) SCS=30kHz DFT\_QAM64 BW=50MHz Channel=656000 RB=128@0



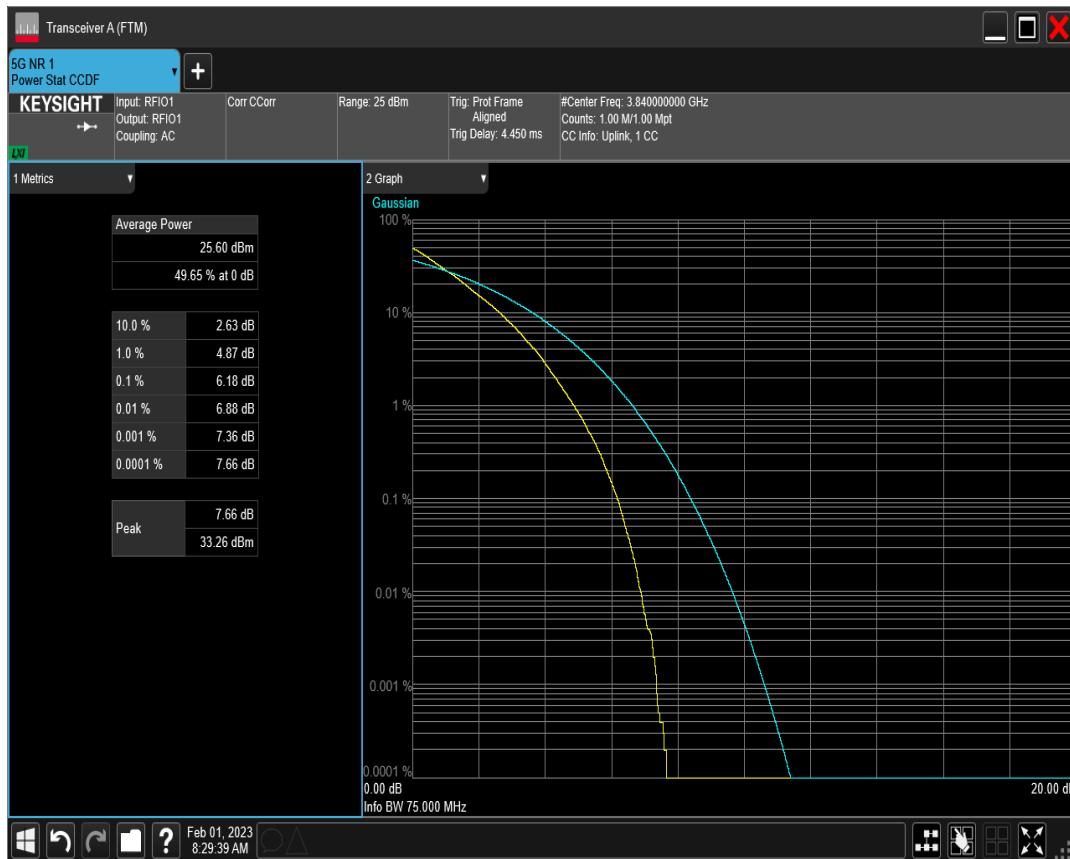
n77(3700-3980) SCS=30kHz DFT\_QAM256 BW=50MHz Channel=656000 RB=128@0



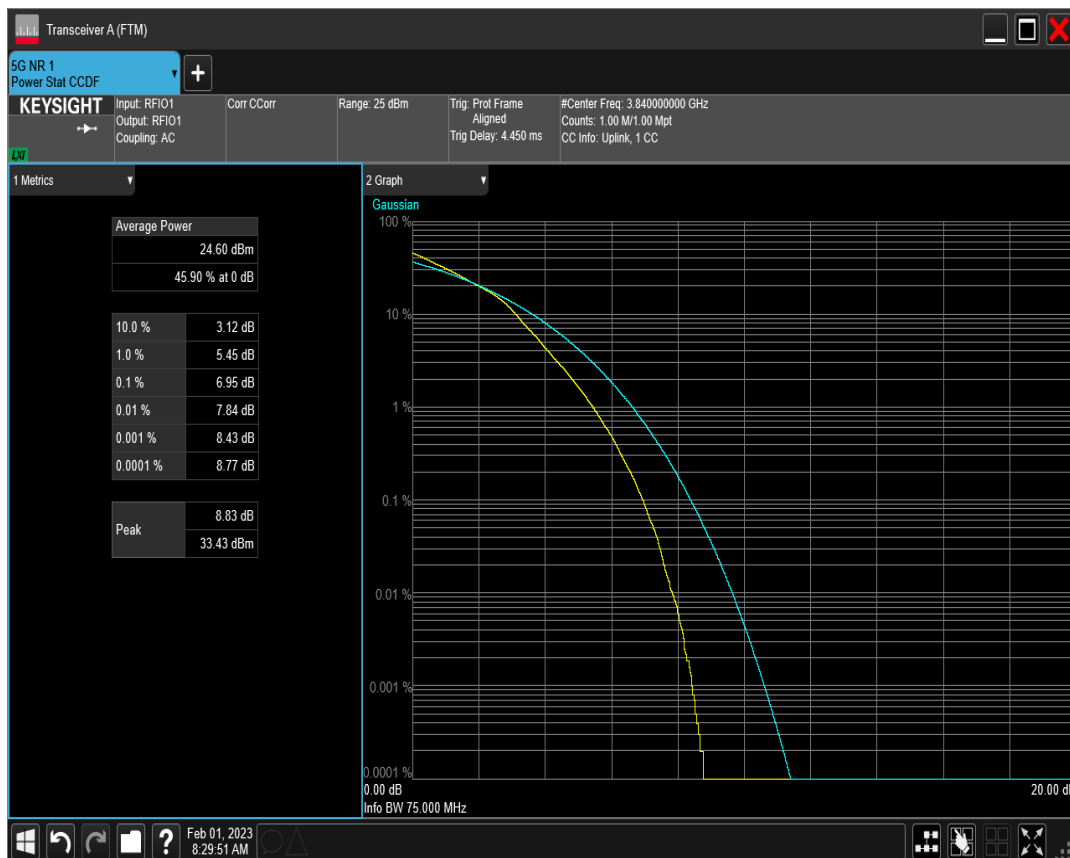
n77(3700-3980) SCS=30kHz DFT\_BPSK BW=60MHz Channel=656000 RB=162@0



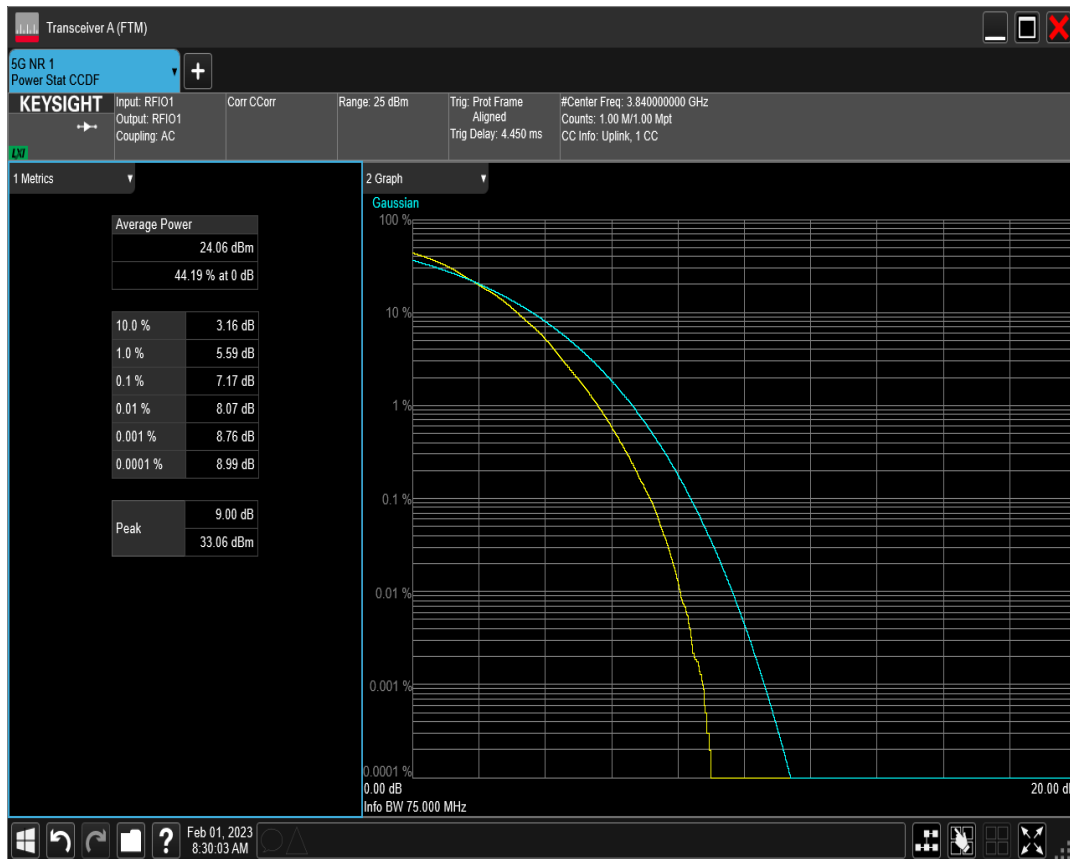
n77(3700-3980) SCS=30kHz DFT\_QPSK BW=60MHz Channel=656000 RB=162@0



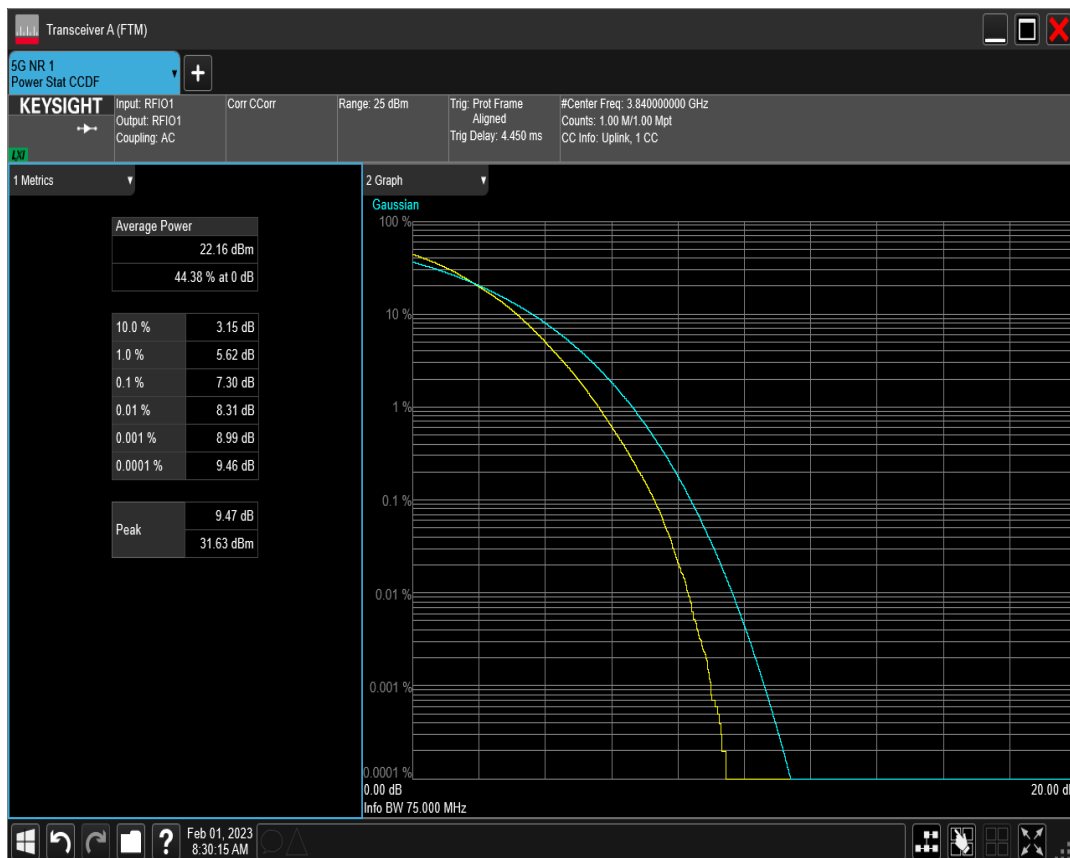
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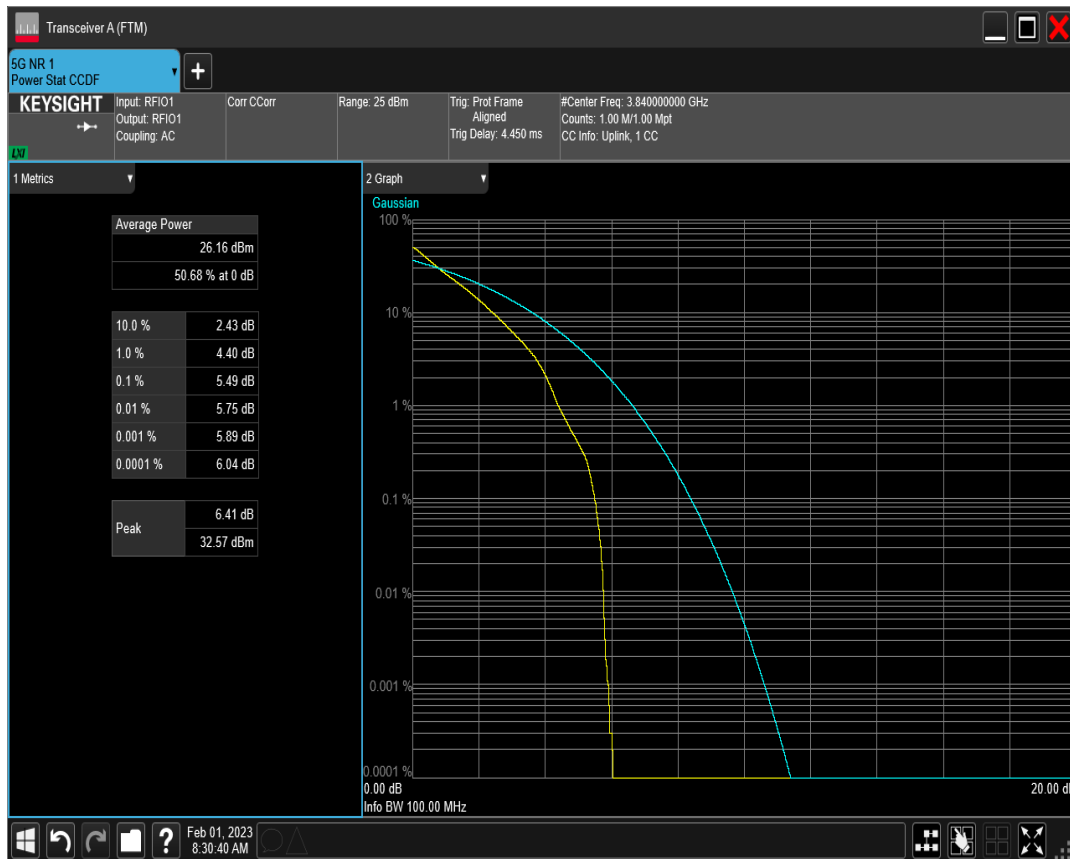
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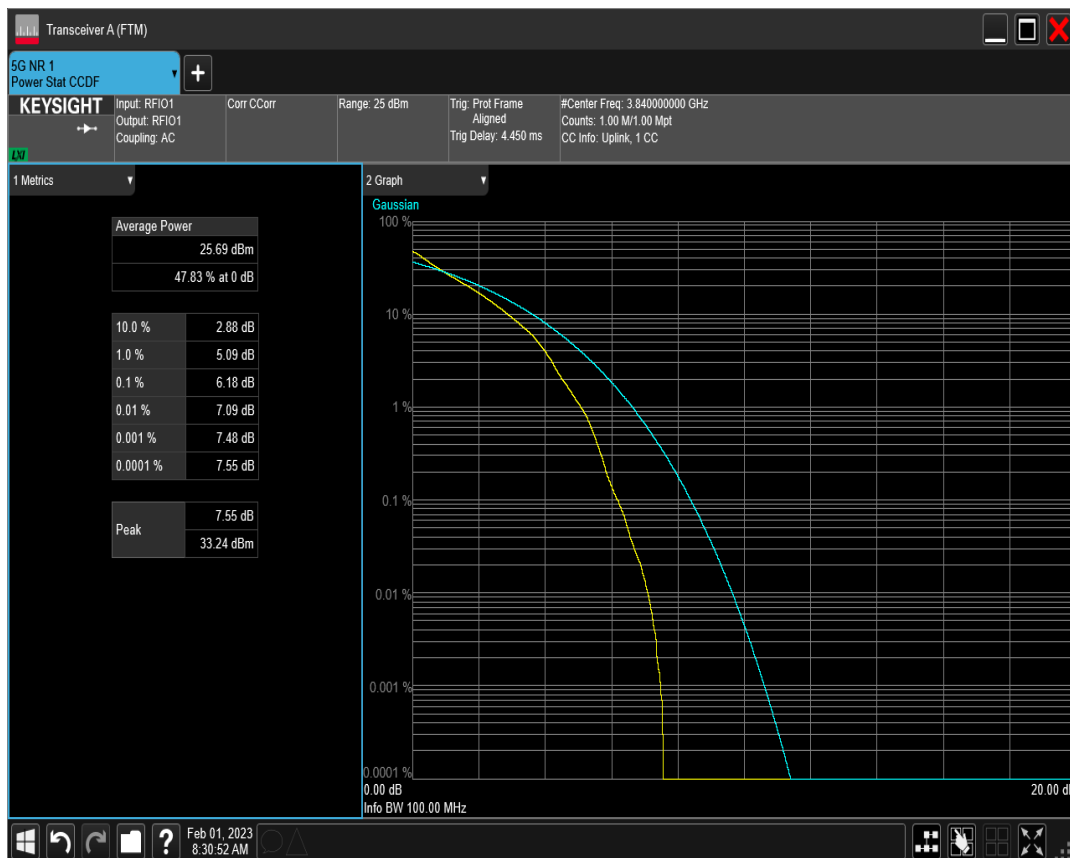
n77(3700-3980) SCS=30kHz DFT\_QAM256 BW=60MHz Channel=656000 RB=162@0



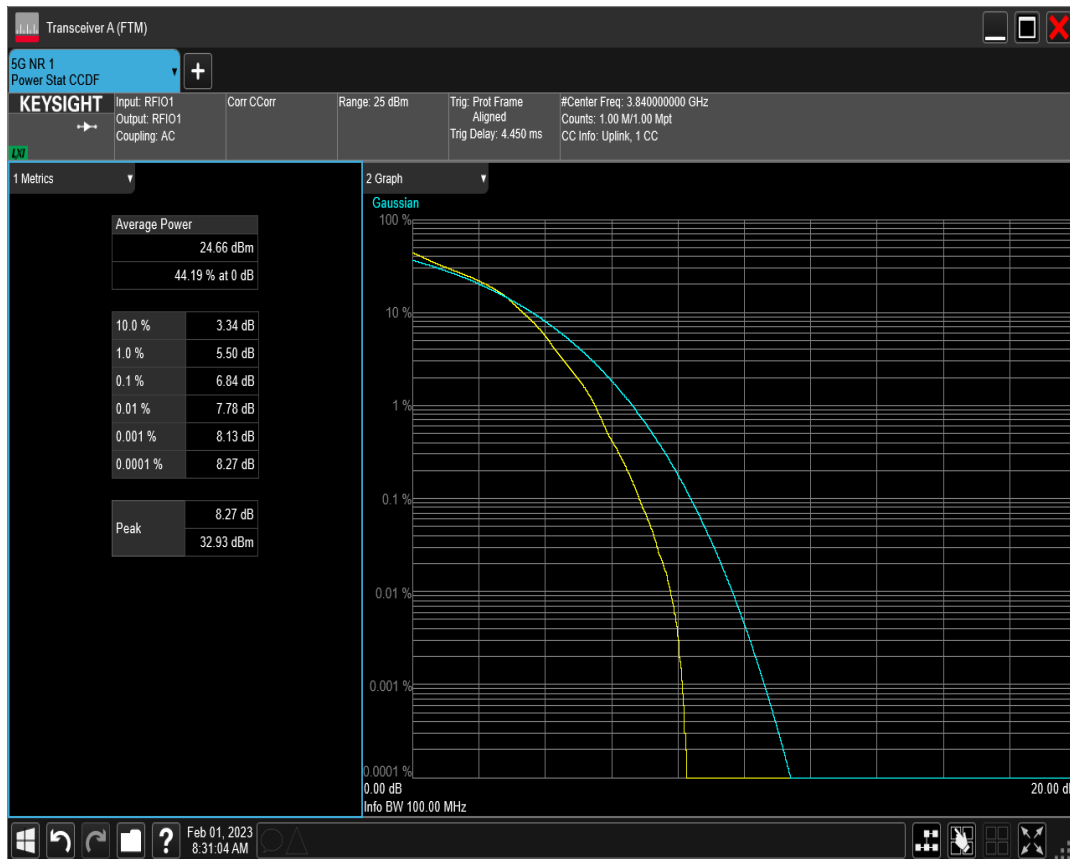
n77(3700-3980) SCS=30kHz DFT\_BPSK BW=80MHz Channel=656000 RB=216@0



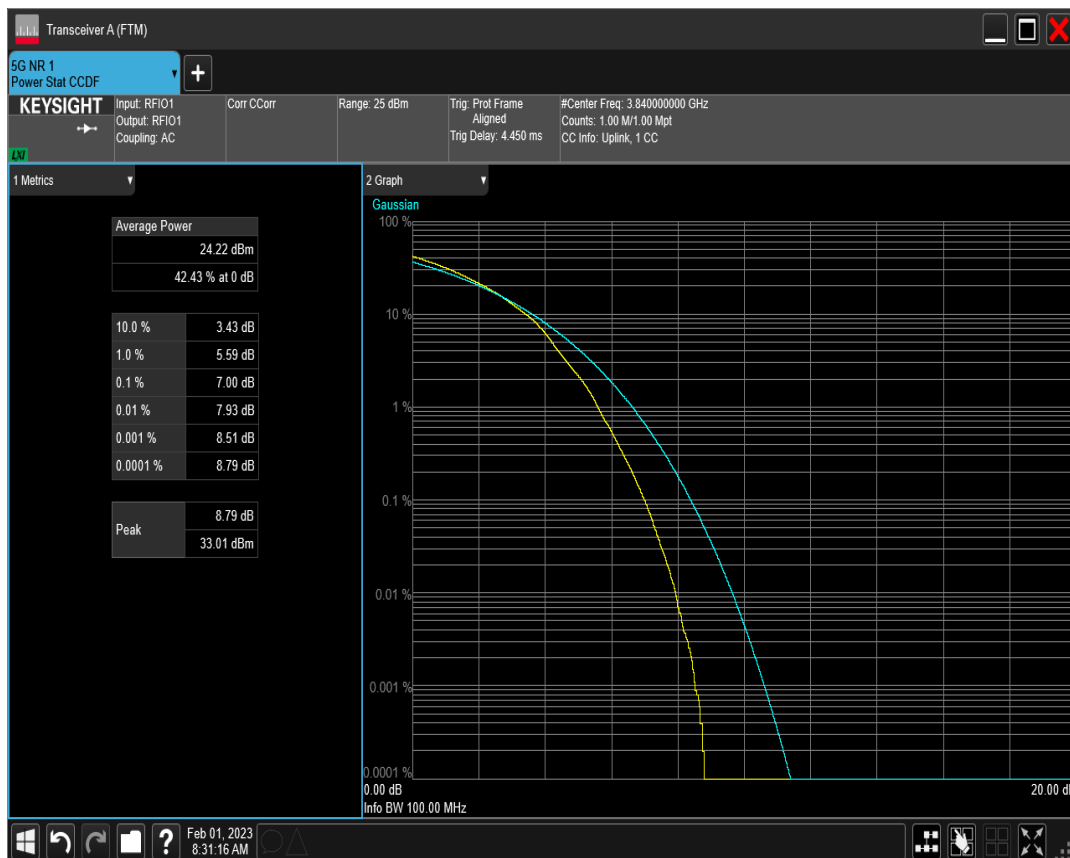
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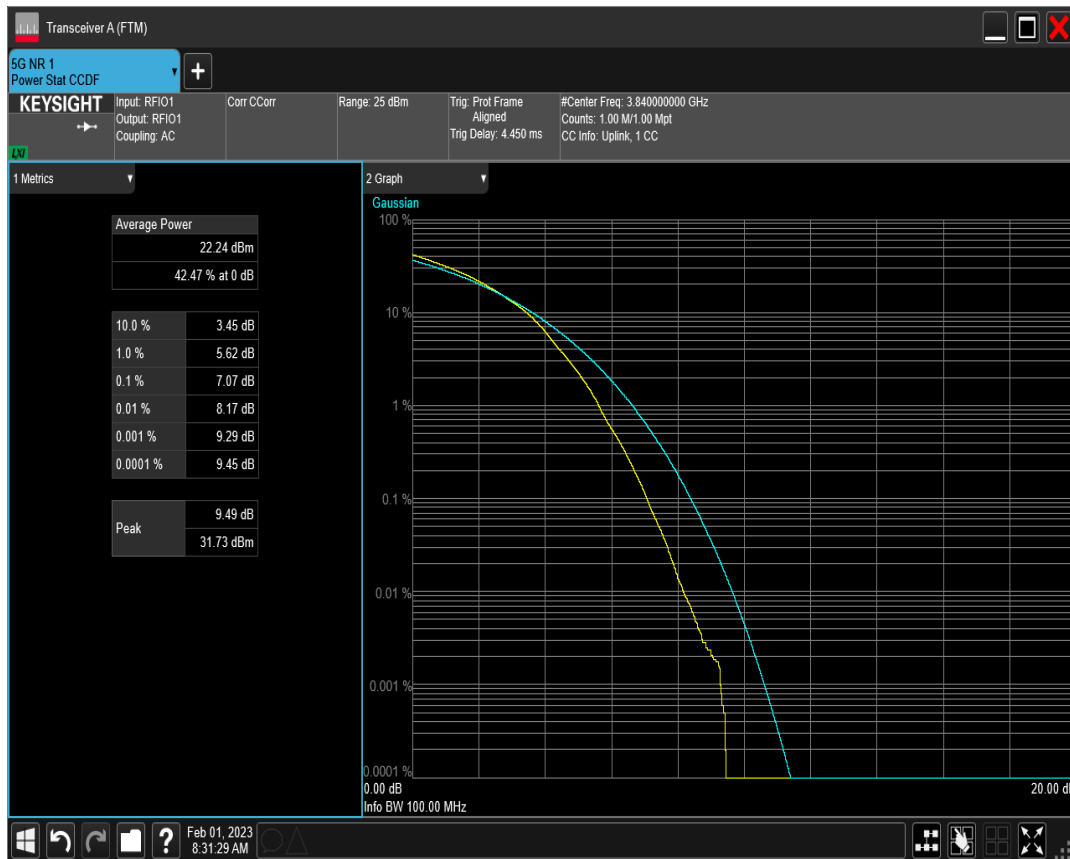
n77(3700-3980) SCS=30kHz DFT\_QAM16 BW=80MHz Channel=656000 RB=216@0



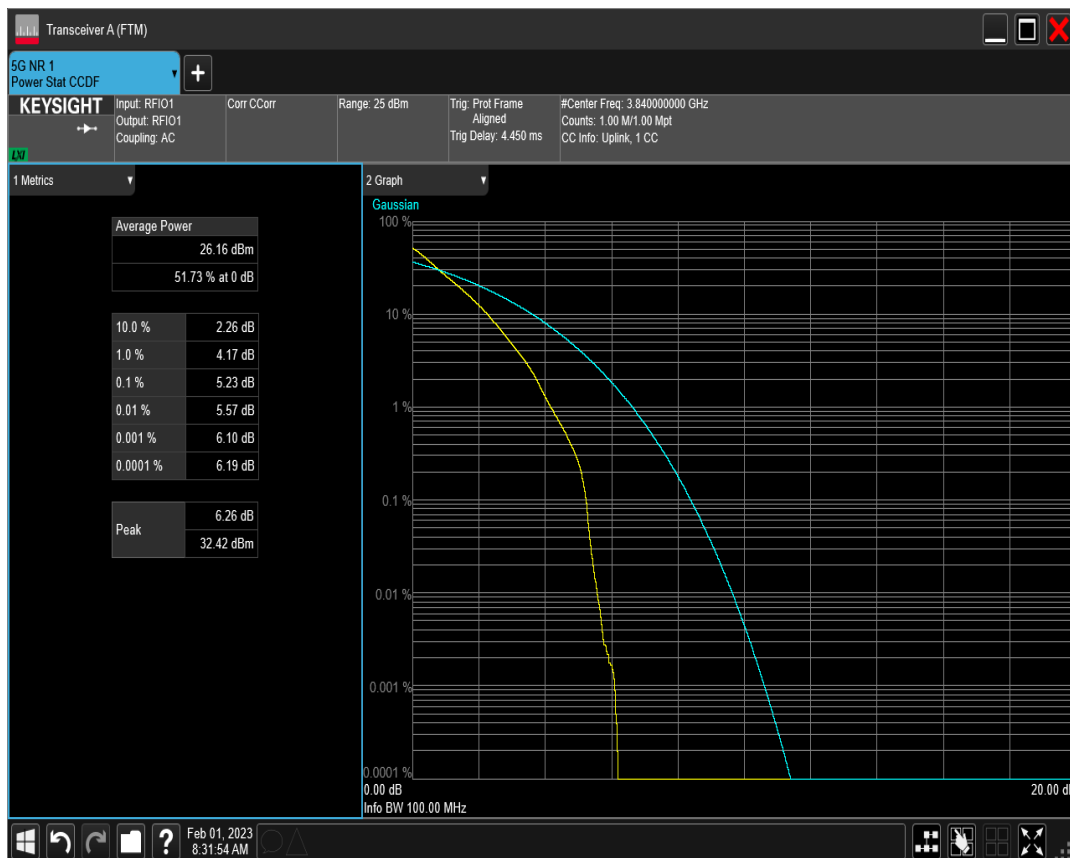
n77(3700-3980) SCS=30kHz DFT\_QAM64 BW=80MHz Channel=656000 RB=216@0



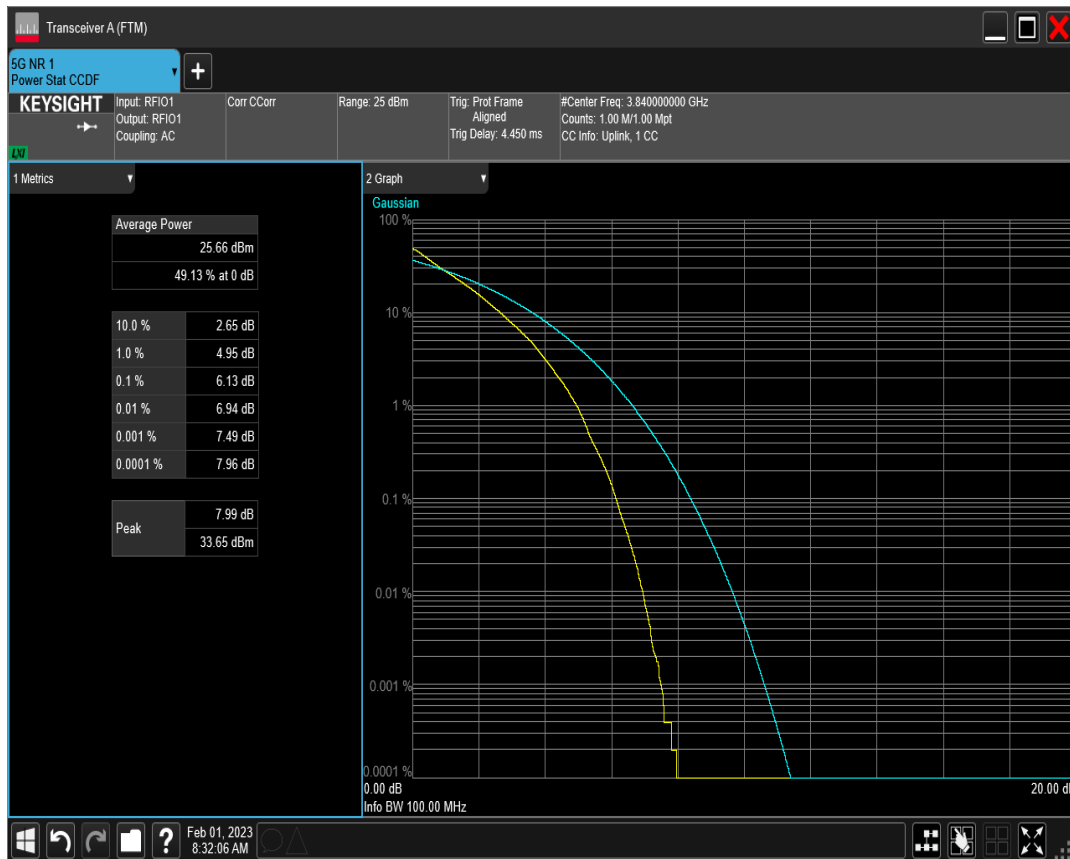
n77(3700-3980) SCS=30kHz DFT\_QAM256 BW=80MHz Channel=656000 RB=216@0



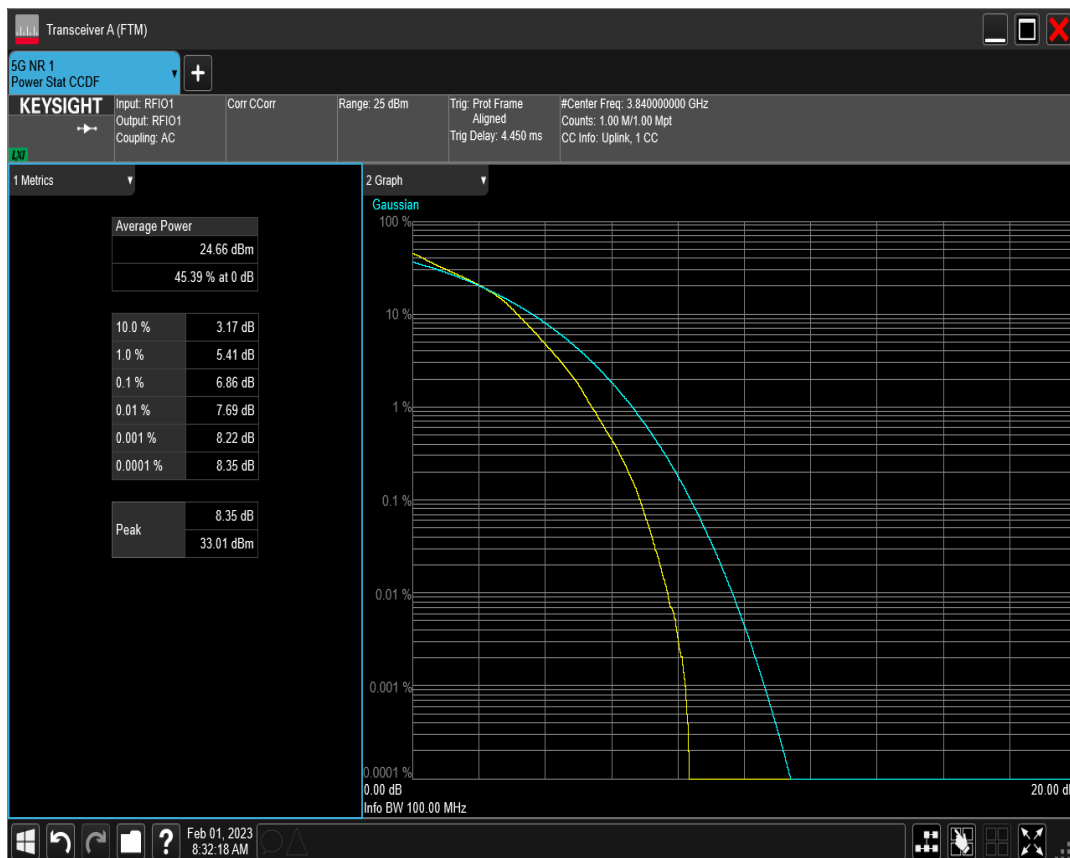
n77(3700-3980) SCS=30kHz DFT\_BPSK BW=90MHz Channel=656000 RB=240@0



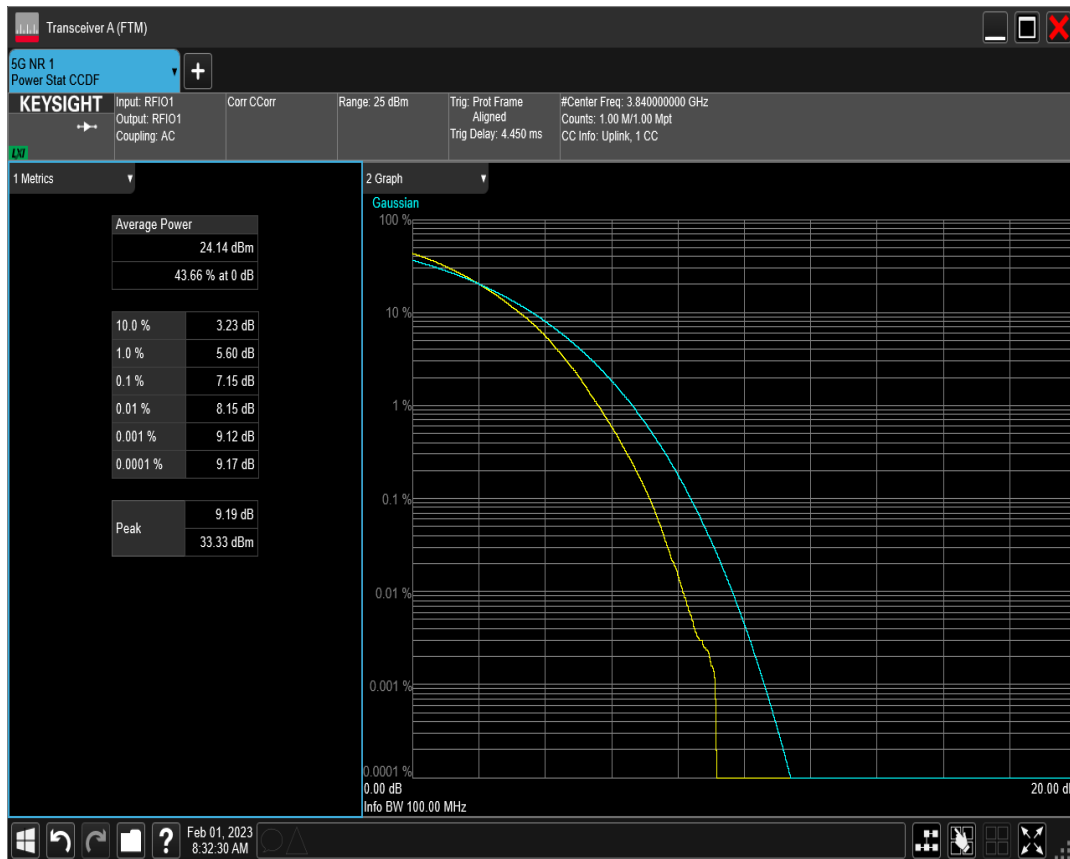
n77(3700-3980) SCS=30kHz DFT\_QPSK BW=90MHz Channel=656000 RB=240@0



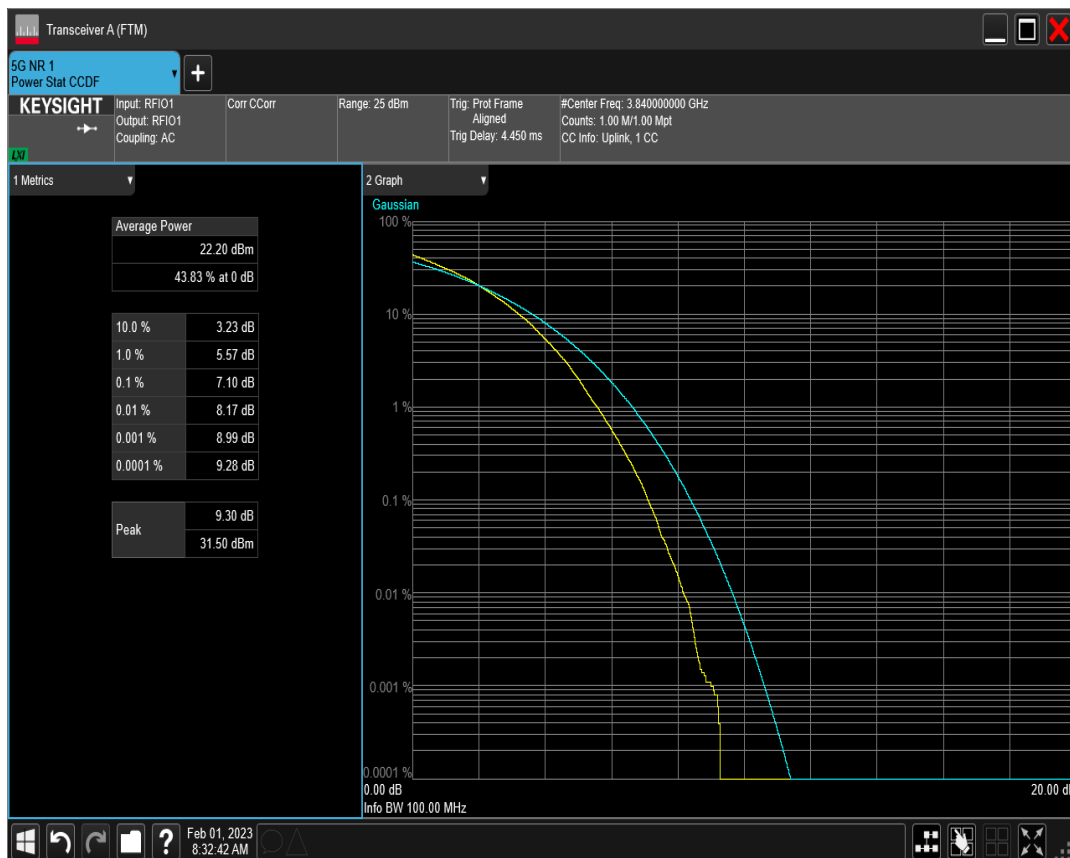
n77(3700-3980) SCS=30kHz DFT\_QAM16 BW=90MHz Channel=656000 RB=240@0



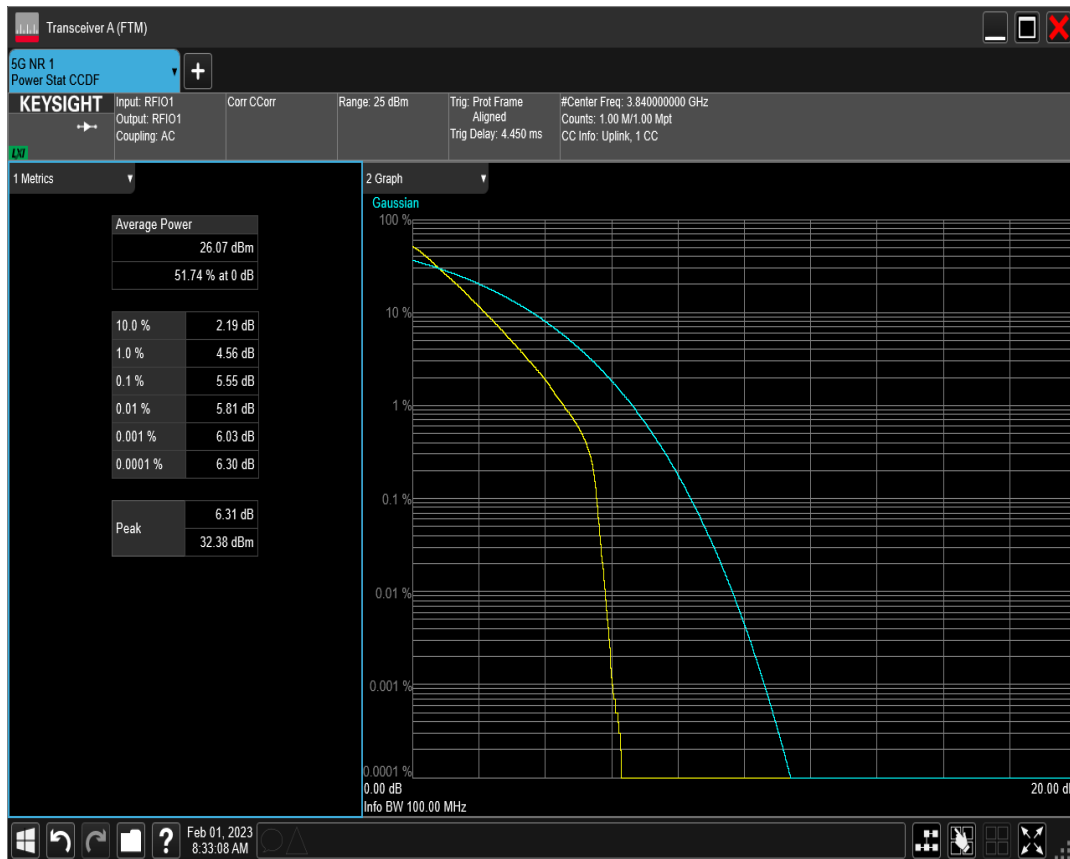
n77(3700-3980) SCS=30kHz DFT\_QAM64 BW=90MHz Channel=656000 RB=240@0



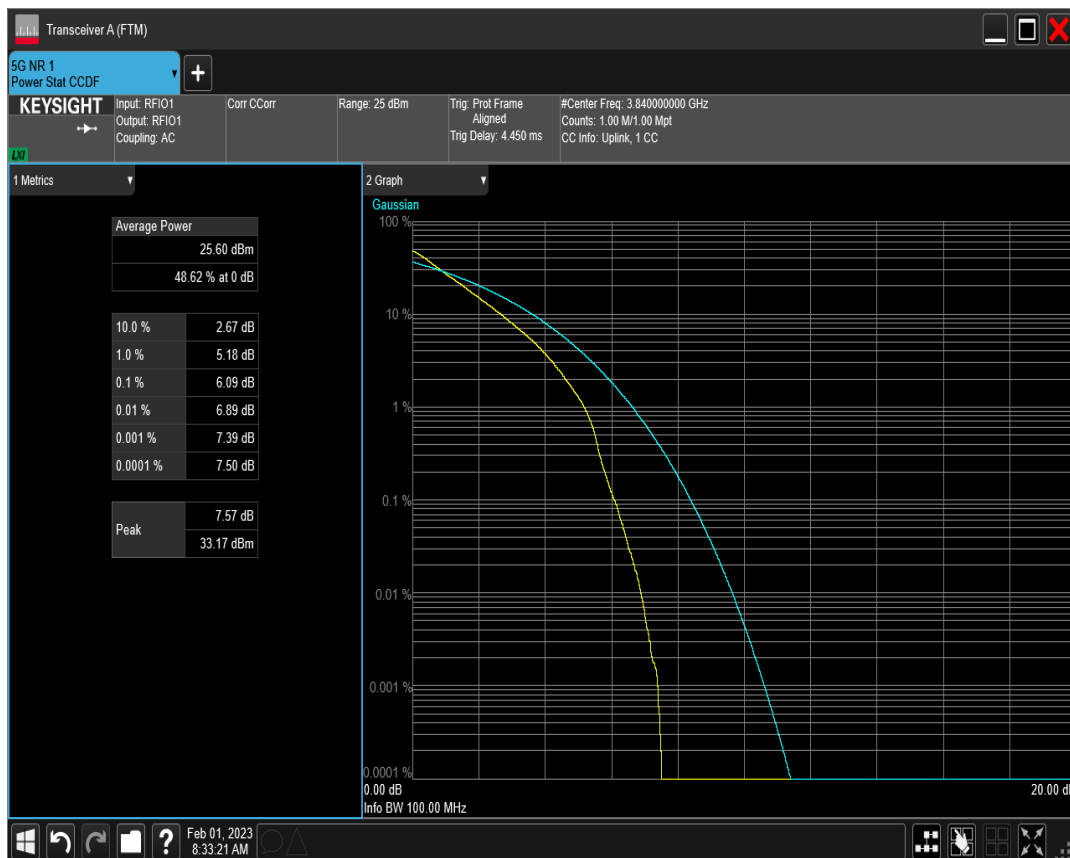
n77(3700-3980) SCS=30kHz DFT\_QAM256 BW=90MHz Channel=656000 RB=240@0



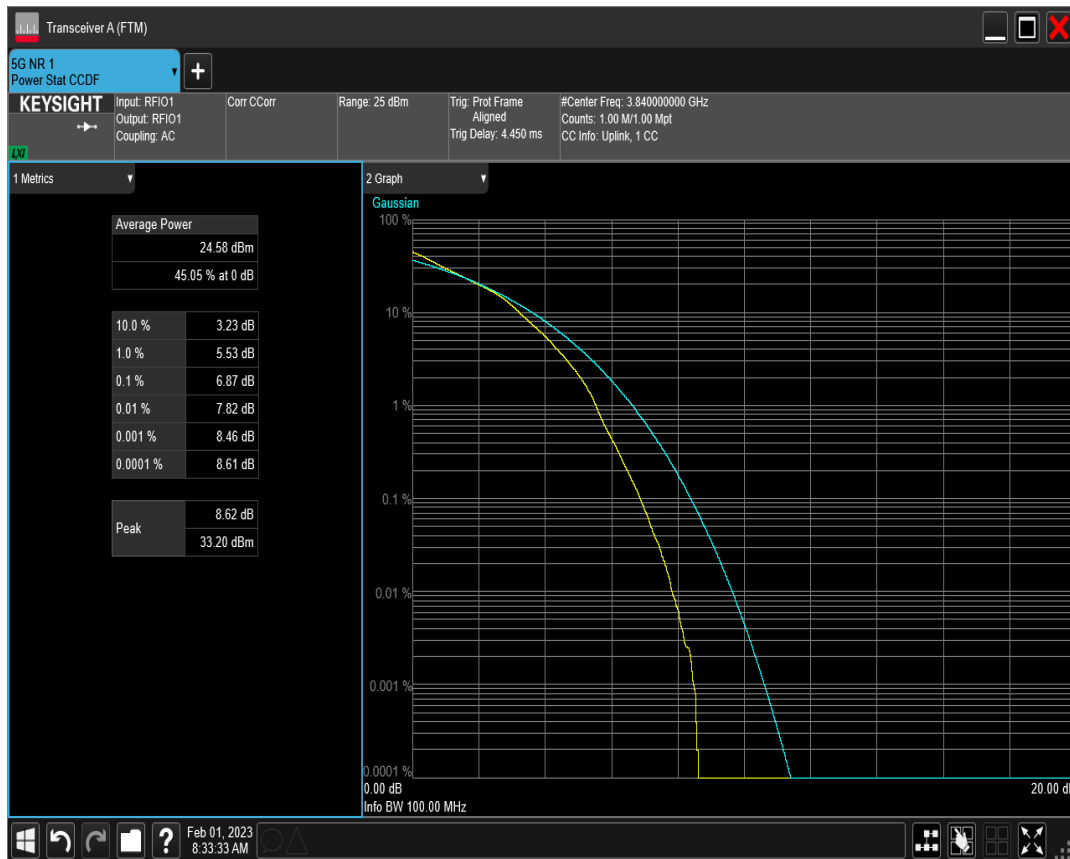
n77(3700-3980) SCS=30kHz DFT\_BPSK BW=100MHz Channel=656000 RB=270@0



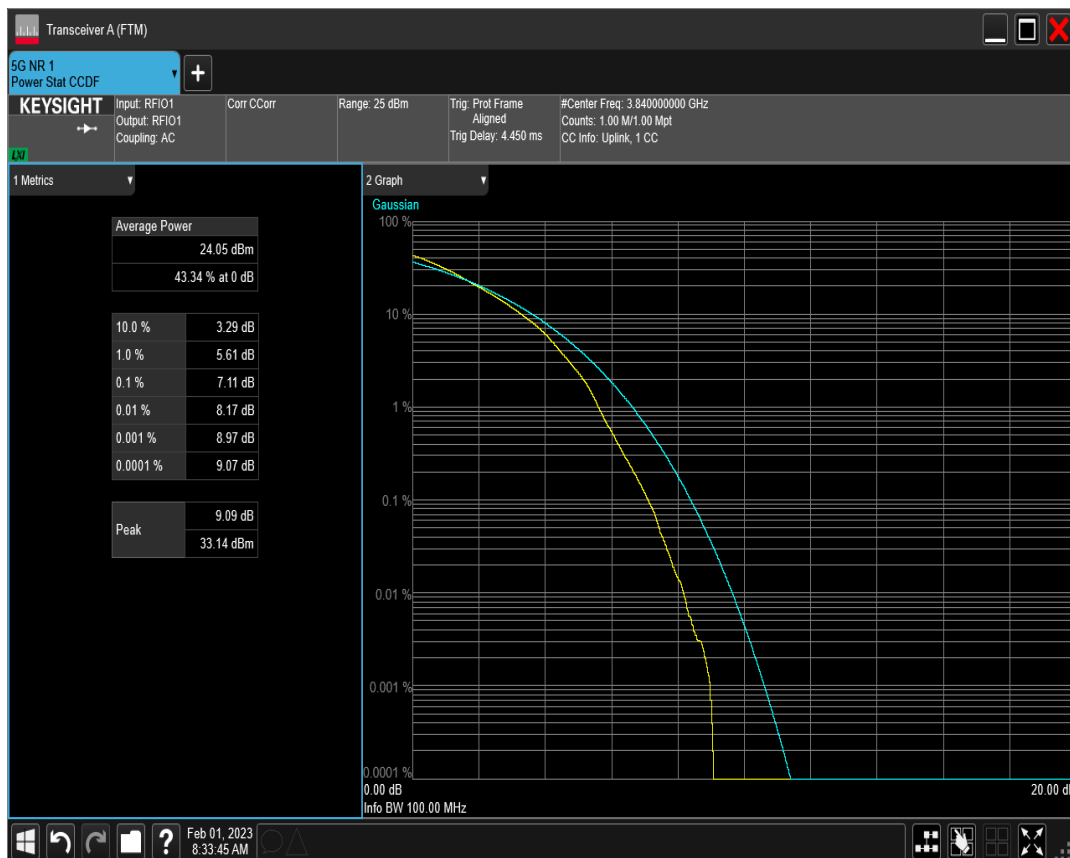
n77(3700-3980) SCS=30kHz DFT\_QPSK BW=100MHz Channel=656000 RB=270@0



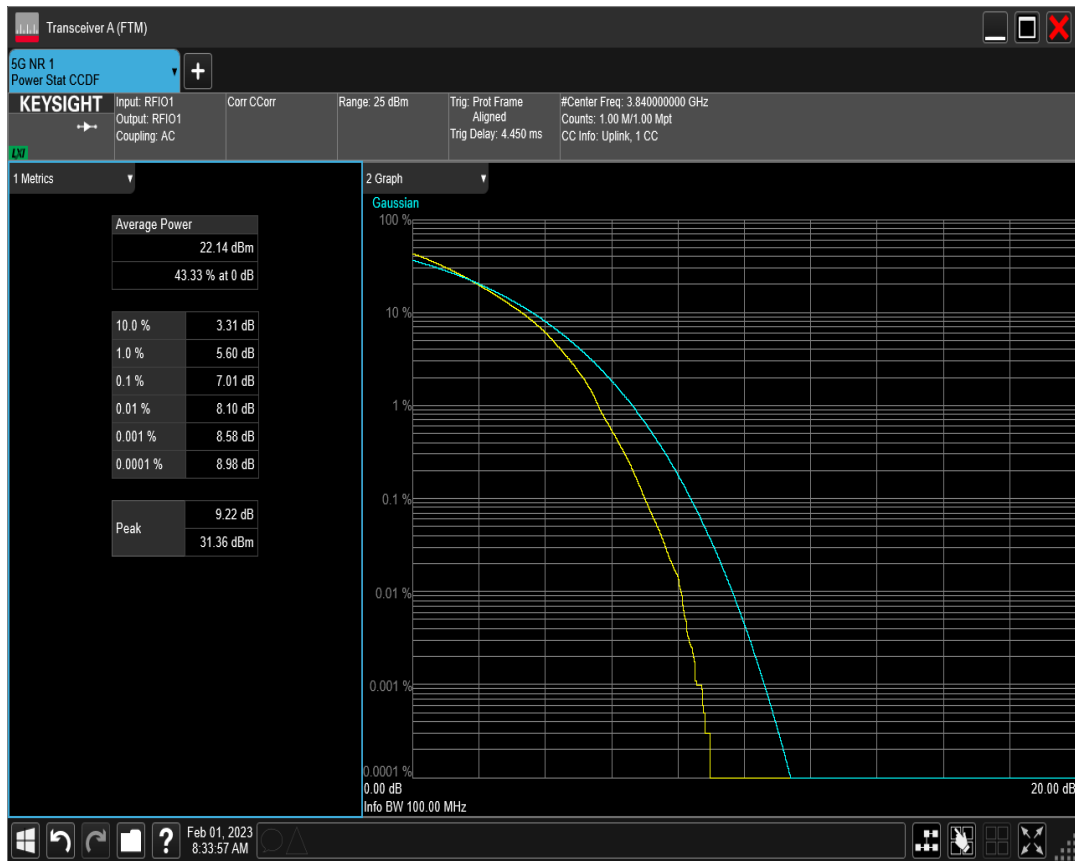
n77(3700-3980) SCS=30kHz DFT\_QAM16 BW=100MHz Channel=656000 RB=270@0



n77(3700-3980) SCS=30kHz DFT\_QAM64 BW=100MHz Channel=656000 RB=270@0



n77(3700-3980) SCS=30kHz DFT\_QAM256 BW=100MHz Channel=656000 RB=270@0



## 4 Occupied bandwidth for NR FR1

| Band           | SCS<br>(kHz) | Bandwidth<br>(MHz) | UL<br>Channel | RB<br>Allocation | Modulation | 99% OBW<br>(MHz) | -26dB EBW<br>(MHz) | Verdict |
|----------------|--------------|--------------------|---------------|------------------|------------|------------------|--------------------|---------|
| n77(3700-3980) | 30           | 10                 | 647000        | 24@0             | DFT_BPSK   | 8.610            | 9.170              | PASS    |
| n77(3700-3980) | 30           | 10                 | 647000        | 24@0             | DFT_QPSK   | 8.610            | 9.190              | PASS    |
| n77(3700-3980) | 30           | 10                 | 647000        | 24@0             | DFT_QAM16  | 8.610            | 9.240              | PASS    |
| n77(3700-3980) | 30           | 10                 | 647000        | 24@0             | DFT_QAM64  | 8.610            | 9.160              | PASS    |
| n77(3700-3980) | 30           | 10                 | 647000        | 24@0             | DFT_QAM256 | 8.610            | 9.180              | PASS    |
| n77(3700-3980) | 30           | 10                 | 647000        | 24@0             | CP_QPSK    | 8.620            | 9.230              | PASS    |
| n77(3700-3980) | 30           | 10                 | 656000        | 24@0             | DFT_BPSK   | 8.620            | 9.270              | PASS    |
| n77(3700-3980) | 30           | 10                 | 656000        | 24@0             | DFT_QPSK   | 8.610            | 9.180              | PASS    |
| n77(3700-3980) | 30           | 10                 | 656000        | 24@0             | DFT_QAM16  | 8.610            | 9.180              | PASS    |
| n77(3700-3980) | 30           | 10                 | 656000        | 24@0             | DFT_QAM64  | 8.610            | 9.220              | PASS    |
| n77(3700-3980) | 30           | 10                 | 656000        | 24@0             | DFT_QAM256 | 8.620            | 9.190              | PASS    |
| n77(3700-3980) | 30           | 10                 | 656000        | 24@0             | CP_QPSK    | 8.620            | 9.180              | PASS    |
| n77(3700-3980) | 30           | 10                 | 665000        | 24@0             | DFT_BPSK   | 8.640            | 9.230              | PASS    |
| n77(3700-3980) | 30           | 10                 | 665000        | 24@0             | DFT_QPSK   | 8.610            | 9.210              | PASS    |
| n77(3700-3980) | 30           | 10                 | 665000        | 24@0             | DFT_QAM16  | 8.620            | 9.240              | PASS    |
| n77(3700-3980) | 30           | 10                 | 665000        | 24@0             | DFT_QAM64  | 8.620            | 9.160              | PASS    |
| n77(3700-3980) | 30           | 10                 | 665000        | 24@0             | DFT_QAM256 | 8.620            | 9.170              | PASS    |
| n77(3700-3980) | 30           | 10                 | 665000        | 24@0             | CP_QPSK    | 8.640            | 9.270              | PASS    |
| n77(3700-3980) | 30           | 15                 | 647168        | 36@0             | DFT_BPSK   | 13.510           | 13.750             | PASS    |
| n77(3700-3980) | 30           | 15                 | 647168        | 36@0             | DFT_QPSK   | 13.470           | 13.760             | PASS    |
| n77(3700-3980) | 30           | 15                 | 647168        | 36@0             | DFT_QAM16  | 13.510           | 13.750             | PASS    |
| n77(3700-3980) | 30           | 15                 | 647168        | 36@0             | DFT_QAM64  | 13.510           | 13.730             | PASS    |
| n77(3700-3980) | 30           | 15                 | 647168        | 36@0             | DFT_QAM256 | 13.520           | 13.750             | PASS    |
| n77(3700-3980) | 30           | 15                 | 647168        | 38@0             | CP_QPSK    | 13.640           | 14.430             | PASS    |
| n77(3700-3980) | 30           | 15                 | 656000        | 36@0             | DFT_BPSK   | 13.510           | 13.730             | PASS    |
| n77(3700-3980) | 30           | 15                 | 656000        | 36@0             | DFT_QPSK   | 13.500           | 13.740             | PASS    |
| n77(3700-3980) | 30           | 15                 | 656000        | 36@0             | DFT_QAM16  | 13.510           | 13.730             | PASS    |
| n77(3700-3980) | 30           | 15                 | 656000        | 36@0             | DFT_QAM64  | 13.500           | 13.800             | PASS    |
| n77(3700-3980) | 30           | 15                 | 656000        | 36@0             | DFT_QAM256 | 13.520           | 13.750             | PASS    |
| n77(3700-3980) | 30           | 15                 | 656000        | 38@0             | CP_QPSK    | 13.630           | 14.440             | PASS    |
| n77(3700-3980) | 30           | 15                 | 664832        | 36@0             | DFT_BPSK   | 13.520           | 13.760             | PASS    |
| n77(3700-3980) | 30           | 15                 | 664832        | 36@0             | DFT_QPSK   | 13.500           | 13.750             | PASS    |
| n77(3700-3980) | 30           | 15                 | 664832        | 36@0             | DFT_QAM16  | 13.510           | 13.790             | PASS    |
| n77(3700-3980) | 30           | 15                 | 664832        | 36@0             | DFT_QAM64  | 13.510           | 13.760             | PASS    |
| n77(3700-3980) | 30           | 15                 | 664832        | 36@0             | DFT_QAM256 | 13.520           | 13.760             | PASS    |
| n77(3700-3980) | 30           | 15                 | 664832        | 38@0             | CP_QPSK    | 13.640           | 14.450             | PASS    |
| n77(3700-3980) | 30           | 20                 | 647334        | 50@0             | DFT_BPSK   | 18.160           | 18.930             | PASS    |
| n77(3700-3980) | 30           | 20                 | 647334        | 50@0             | DFT_QPSK   | 18.110           | 18.960             | PASS    |

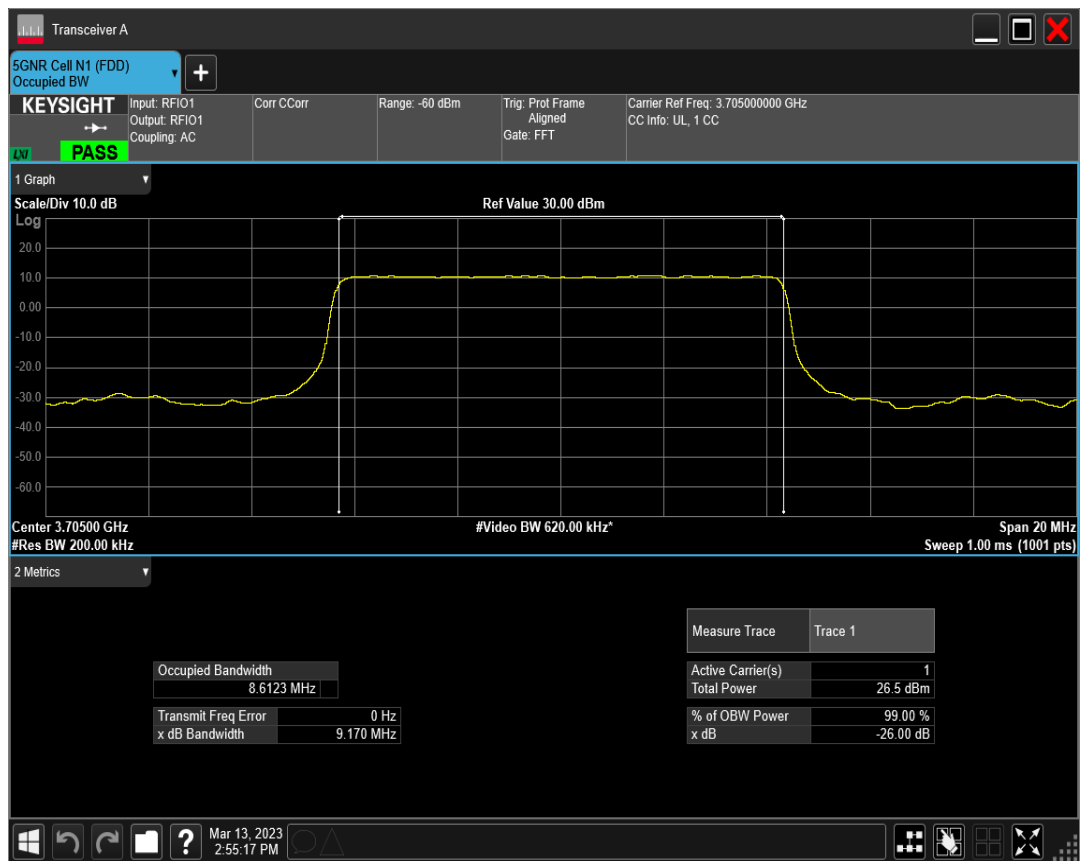
|                |    |    |        |       |            |        |        |      |
|----------------|----|----|--------|-------|------------|--------|--------|------|
| n77(3700-3980) | 30 | 20 | 647334 | 50@0  | DFT_QAM16  | 18.080 | 18.910 | PASS |
| n77(3700-3980) | 30 | 20 | 647334 | 50@0  | DFT_QAM64  | 18.090 | 18.910 | PASS |
| n77(3700-3980) | 30 | 20 | 647334 | 50@0  | DFT_QAM256 | 18.090 | 18.890 | PASS |
| n77(3700-3980) | 30 | 20 | 647334 | 51@0  | CP_QPSK    | 18.270 | 19.300 | PASS |
| n77(3700-3980) | 30 | 20 | 656000 | 50@0  | DFT_BPSK   | 18.100 | 18.940 | PASS |
| n77(3700-3980) | 30 | 20 | 656000 | 50@0  | DFT_QPSK   | 18.110 | 18.950 | PASS |
| n77(3700-3980) | 30 | 20 | 656000 | 50@0  | DFT_QAM16  | 18.040 | 18.920 | PASS |
| n77(3700-3980) | 30 | 20 | 656000 | 50@0  | DFT_QAM64  | 18.090 | 18.930 | PASS |
| n77(3700-3980) | 30 | 20 | 656000 | 50@0  | DFT_QAM256 | 18.090 | 18.920 | PASS |
| n77(3700-3980) | 30 | 20 | 656000 | 51@0  | CP_QPSK    | 18.270 | 19.320 | PASS |
| n77(3700-3980) | 30 | 20 | 664666 | 50@0  | DFT_BPSK   | 18.100 | 18.930 | PASS |
| n77(3700-3980) | 30 | 20 | 664666 | 50@0  | DFT_QPSK   | 18.090 | 18.940 | PASS |
| n77(3700-3980) | 30 | 20 | 664666 | 50@0  | DFT_QAM16  | 18.080 | 18.940 | PASS |
| n77(3700-3980) | 30 | 20 | 664666 | 50@0  | DFT_QAM64  | 18.100 | 18.930 | PASS |
| n77(3700-3980) | 30 | 20 | 664666 | 50@0  | DFT_QAM256 | 18.090 | 18.950 | PASS |
| n77(3700-3980) | 30 | 20 | 664666 | 51@0  | CP_QPSK    | 18.280 | 19.340 | PASS |
| n77(3700-3980) | 30 | 30 | 647668 | 75@0  | DFT_BPSK   | 27.740 | 28.430 | PASS |
| n77(3700-3980) | 30 | 30 | 647668 | 75@0  | DFT_QPSK   | 27.660 | 28.430 | PASS |
| n77(3700-3980) | 30 | 30 | 647668 | 75@0  | DFT_QAM16  | 27.730 | 28.450 | PASS |
| n77(3700-3980) | 30 | 30 | 647668 | 75@0  | DFT_QAM64  | 27.610 | 28.440 | PASS |
| n77(3700-3980) | 30 | 30 | 647668 | 75@0  | DFT_QAM256 | 27.640 | 28.440 | PASS |
| n77(3700-3980) | 30 | 30 | 647668 | 78@0  | CP_QPSK    | 27.980 | 29.540 | PASS |
| n77(3700-3980) | 30 | 30 | 656000 | 75@0  | DFT_BPSK   | 27.640 | 28.480 | PASS |
| n77(3700-3980) | 30 | 30 | 656000 | 75@0  | DFT_QPSK   | 27.640 | 28.470 | PASS |
| n77(3700-3980) | 30 | 30 | 656000 | 75@0  | DFT_QAM16  | 27.650 | 28.500 | PASS |
| n77(3700-3980) | 30 | 30 | 656000 | 75@0  | DFT_QAM64  | 27.620 | 28.450 | PASS |
| n77(3700-3980) | 30 | 30 | 656000 | 75@0  | DFT_QAM256 | 27.640 | 28.450 | PASS |
| n77(3700-3980) | 30 | 30 | 656000 | 78@0  | CP_QPSK    | 27.980 | 29.550 | PASS |
| n77(3700-3980) | 30 | 30 | 664332 | 75@0  | DFT_BPSK   | 27.620 | 28.470 | PASS |
| n77(3700-3980) | 30 | 30 | 664332 | 75@0  | DFT_QPSK   | 27.650 | 28.490 | PASS |
| n77(3700-3980) | 30 | 30 | 664332 | 75@0  | DFT_QAM16  | 27.740 | 28.470 | PASS |
| n77(3700-3980) | 30 | 30 | 664332 | 75@0  | DFT_QAM64  | 27.620 | 28.480 | PASS |
| n77(3700-3980) | 30 | 30 | 664332 | 75@0  | DFT_QAM256 | 27.640 | 28.450 | PASS |
| n77(3700-3980) | 30 | 30 | 664332 | 78@0  | CP_QPSK    | 27.980 | 29.540 | PASS |
| n77(3700-3980) | 30 | 40 | 648000 | 100@0 | DFT_BPSK   | 37.650 | 37.890 | PASS |
| n77(3700-3980) | 30 | 40 | 648000 | 100@0 | DFT_QPSK   | 37.610 | 37.890 | PASS |
| n77(3700-3980) | 30 | 40 | 648000 | 100@0 | DFT_QAM16  | 37.630 | 37.880 | PASS |
| n77(3700-3980) | 30 | 40 | 648000 | 100@0 | DFT_QAM64  | 37.610 | 37.860 | PASS |
| n77(3700-3980) | 30 | 40 | 648000 | 100@0 | DFT_QAM256 | 37.620 | 37.880 | PASS |
| n77(3700-3980) | 30 | 40 | 648000 | 106@0 | CP_QPSK    | 37.980 | 40.040 | PASS |
| n77(3700-3980) | 30 | 40 | 656000 | 100@0 | DFT_BPSK   | 37.640 | 37.930 | PASS |
| n77(3700-3980) | 30 | 40 | 656000 | 100@0 | DFT_QPSK   | 37.610 | 37.910 | PASS |
| n77(3700-3980) | 30 | 40 | 656000 | 100@0 | DFT_QAM16  | 37.630 | 37.900 | PASS |

|                |    |    |        |       |            |        |        |      |
|----------------|----|----|--------|-------|------------|--------|--------|------|
| n77(3700-3980) | 30 | 40 | 656000 | 100@0 | DFT_QAM64  | 37.620 | 37.890 | PASS |
| n77(3700-3980) | 30 | 40 | 656000 | 100@0 | DFT_QAM256 | 37.490 | 37.890 | PASS |
| n77(3700-3980) | 30 | 40 | 656000 | 106@0 | CP_QPSK    | 37.990 | 40.060 | PASS |
| n77(3700-3980) | 30 | 40 | 664000 | 100@0 | DFT_BPSK   | 37.630 | 37.930 | PASS |
| n77(3700-3980) | 30 | 40 | 664000 | 100@0 | DFT_QPSK   | 37.510 | 37.910 | PASS |
| n77(3700-3980) | 30 | 40 | 664000 | 100@0 | DFT_QAM16  | 37.620 | 37.900 | PASS |
| n77(3700-3980) | 30 | 40 | 664000 | 100@0 | DFT_QAM64  | 37.610 | 37.890 | PASS |
| n77(3700-3980) | 30 | 40 | 664000 | 100@0 | DFT_QAM256 | 37.600 | 37.910 | PASS |
| n77(3700-3980) | 30 | 40 | 664000 | 106@0 | CP_QPSK    | 37.990 | 40.080 | PASS |
| n77(3700-3980) | 30 | 50 | 648334 | 128@0 | DFT_BPSK   | 47.210 | 48.380 | PASS |
| n77(3700-3980) | 30 | 50 | 648334 | 128@0 | DFT_QPSK   | 47.220 | 48.400 | PASS |
| n77(3700-3980) | 30 | 50 | 648334 | 128@0 | DFT_QAM16  | 47.050 | 48.350 | PASS |
| n77(3700-3980) | 30 | 50 | 648334 | 128@0 | DFT_QAM64  | 47.220 | 48.400 | PASS |
| n77(3700-3980) | 30 | 50 | 648334 | 128@0 | DFT_QAM256 | 47.200 | 48.360 | PASS |
| n77(3700-3980) | 30 | 50 | 648334 | 133@0 | CP_QPSK    | 47.650 | 50.210 | PASS |
| n77(3700-3980) | 30 | 50 | 656000 | 128@0 | DFT_BPSK   | 47.210 | 48.440 | PASS |
| n77(3700-3980) | 30 | 50 | 656000 | 128@0 | DFT_QPSK   | 47.220 | 48.440 | PASS |
| n77(3700-3980) | 30 | 50 | 656000 | 128@0 | DFT_QAM16  | 47.060 | 48.400 | PASS |
| n77(3700-3980) | 30 | 50 | 656000 | 128@0 | DFT_QAM64  | 47.220 | 48.420 | PASS |
| n77(3700-3980) | 30 | 50 | 656000 | 128@0 | DFT_QAM256 | 47.050 | 48.380 | PASS |
| n77(3700-3980) | 30 | 50 | 656000 | 133@0 | CP_QPSK    | 47.660 | 50.270 | PASS |
| n77(3700-3980) | 30 | 50 | 663666 | 128@0 | DFT_BPSK   | 47.090 | 48.430 | PASS |
| n77(3700-3980) | 30 | 50 | 663666 | 128@0 | DFT_QPSK   | 47.210 | 48.450 | PASS |
| n77(3700-3980) | 30 | 50 | 663666 | 128@0 | DFT_QAM16  | 47.050 | 48.420 | PASS |
| n77(3700-3980) | 30 | 50 | 663666 | 128@0 | DFT_QAM64  | 47.200 | 48.450 | PASS |
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| n77(3700-3980) | 30 | 50 | 663666 | 133@0 | CP_QPSK    | 47.660 | 50.280 | PASS |
| n77(3700-3980) | 30 | 60 | 648668 | 162@0 | DFT_BPSK   | 58.080 | 60.990 | PASS |
| n77(3700-3980) | 30 | 60 | 648668 | 162@0 | DFT_QPSK   | 57.950 | 61.000 | PASS |
| n77(3700-3980) | 30 | 60 | 648668 | 162@0 | DFT_QAM16  | 57.940 | 60.990 | PASS |
| n77(3700-3980) | 30 | 60 | 648668 | 162@0 | DFT_QAM64  | 58.080 | 61.010 | PASS |
| n77(3700-3980) | 30 | 60 | 648668 | 162@0 | DFT_QAM256 | 57.950 | 61.000 | PASS |
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| n77(3700-3980) | 30 | 60 | 656000 | 162@0 | DFT_BPSK   | 57.950 | 61.030 | PASS |
| n77(3700-3980) | 30 | 60 | 656000 | 162@0 | DFT_QPSK   | 57.960 | 61.050 | PASS |
| n77(3700-3980) | 30 | 60 | 656000 | 162@0 | DFT_QAM16  | 57.960 | 61.030 | PASS |
| n77(3700-3980) | 30 | 60 | 656000 | 162@0 | DFT_QAM64  | 58.100 | 61.060 | PASS |
| n77(3700-3980) | 30 | 60 | 656000 | 162@0 | DFT_QAM256 | 58.080 | 61.020 | PASS |
| n77(3700-3980) | 30 | 60 | 656000 | 162@0 | CP_QPSK    | 58.080 | 61.050 | PASS |
| n77(3700-3980) | 30 | 60 | 663332 | 162@0 | DFT_BPSK   | 58.090 | 61.080 | PASS |
| n77(3700-3980) | 30 | 60 | 663332 | 162@0 | DFT_QPSK   | 57.950 | 61.070 | PASS |
| n77(3700-3980) | 30 | 60 | 663332 | 162@0 | DFT_QAM16  | 57.960 | 61.060 | PASS |
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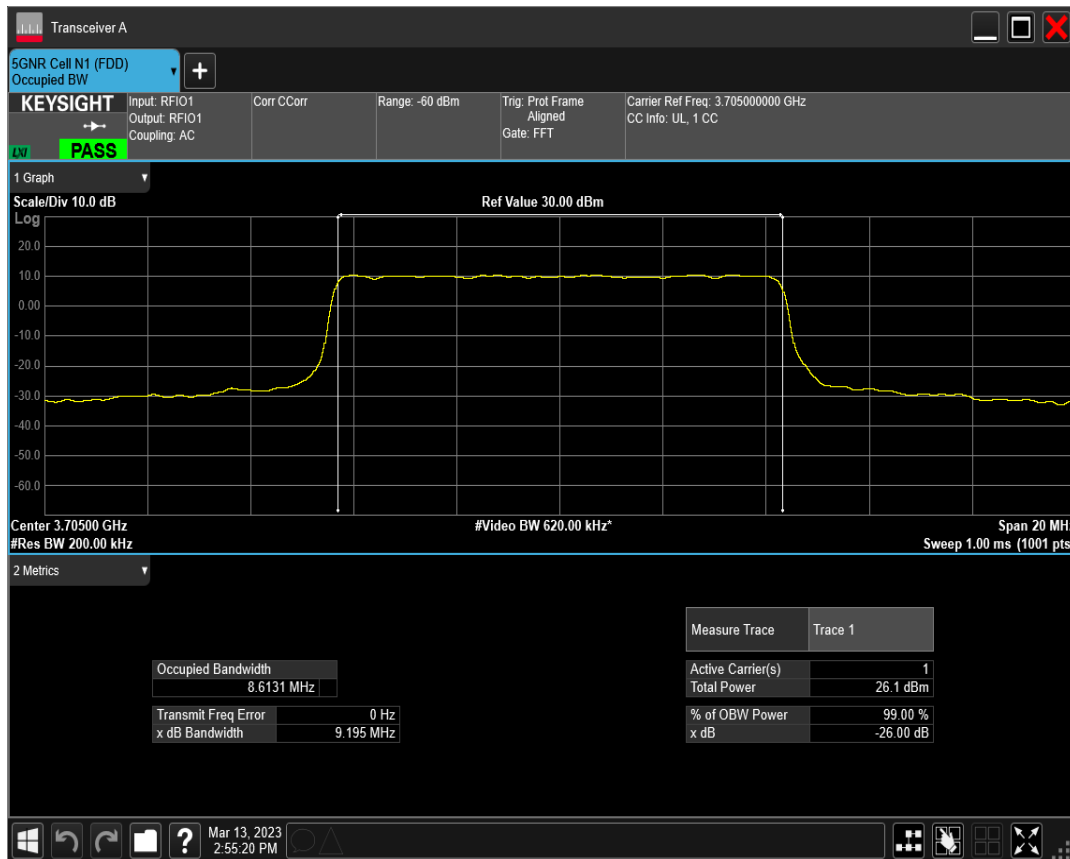
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|----------------|----|-----|--------|-------|------------|--------|---------|------|
| n77(3700-3980) | 30 | 60  | 663332 | 162@0 | DFT_QAM256 | 58.080 | 61.040  | PASS |
| n77(3700-3980) | 30 | 60  | 663332 | 162@0 | CP_QPSK    | 58.080 | 61.090  | PASS |
| n77(3700-3980) | 30 | 80  | 649334 | 216@0 | DFT_BPSK   | 77.480 | 81.330  | PASS |
| n77(3700-3980) | 30 | 80  | 649334 | 216@0 | DFT_QPSK   | 77.490 | 81.340  | PASS |
| n77(3700-3980) | 30 | 80  | 649334 | 216@0 | DFT_QAM16  | 77.480 | 81.360  | PASS |
| n77(3700-3980) | 30 | 80  | 649334 | 216@0 | DFT_QAM64  | 77.470 | 81.330  | PASS |
| n77(3700-3980) | 30 | 80  | 649334 | 216@0 | DFT_QAM256 | 77.480 | 81.340  | PASS |
| n77(3700-3980) | 30 | 80  | 649334 | 217@0 | CP_QPSK    | 77.780 | 81.730  | PASS |
| n77(3700-3980) | 30 | 80  | 656000 | 216@0 | DFT_BPSK   | 77.470 | 81.350  | PASS |
| n77(3700-3980) | 30 | 80  | 656000 | 216@0 | DFT_QPSK   | 77.480 | 81.360  | PASS |
| n77(3700-3980) | 30 | 80  | 656000 | 216@0 | DFT_QAM16  | 77.470 | 81.370  | PASS |
| n77(3700-3980) | 30 | 80  | 656000 | 216@0 | DFT_QAM64  | 77.460 | 81.370  | PASS |
| n77(3700-3980) | 30 | 80  | 656000 | 216@0 | DFT_QAM256 | 77.460 | 81.350  | PASS |
| n77(3700-3980) | 30 | 80  | 656000 | 217@0 | CP_QPSK    | 77.800 | 81.790  | PASS |
| n77(3700-3980) | 30 | 80  | 662666 | 216@0 | DFT_BPSK   | 77.270 | 81.360  | PASS |
| n77(3700-3980) | 30 | 80  | 662666 | 216@0 | DFT_QPSK   | 77.480 | 81.400  | PASS |
| n77(3700-3980) | 30 | 80  | 662666 | 216@0 | DFT_QAM16  | 77.460 | 81.420  | PASS |
| n77(3700-3980) | 30 | 80  | 662666 | 216@0 | DFT_QAM64  | 77.460 | 81.390  | PASS |
| n77(3700-3980) | 30 | 80  | 662666 | 216@0 | DFT_QAM256 | 77.450 | 81.360  | PASS |
| n77(3700-3980) | 30 | 80  | 662666 | 217@0 | CP_QPSK    | 77.800 | 81.850  | PASS |
| n77(3700-3980) | 30 | 90  | 649668 | 240@0 | DFT_BPSK   | 86.900 | 90.520  | PASS |
| n77(3700-3980) | 30 | 90  | 649668 | 240@0 | DFT_QPSK   | 86.860 | 90.520  | PASS |
| n77(3700-3980) | 30 | 90  | 649668 | 240@0 | DFT_QAM16  | 86.770 | 90.470  | PASS |
| n77(3700-3980) | 30 | 90  | 649668 | 240@0 | DFT_QAM64  | 86.790 | 90.440  | PASS |
| n77(3700-3980) | 30 | 90  | 649668 | 240@0 | DFT_QAM256 | 86.880 | 90.520  | PASS |
| n77(3700-3980) | 30 | 90  | 649668 | 245@0 | CP_QPSK    | 87.640 | 92.270  | PASS |
| n77(3700-3980) | 30 | 90  | 656000 | 240@0 | DFT_BPSK   | 86.890 | 90.620  | PASS |
| n77(3700-3980) | 30 | 90  | 656000 | 240@0 | DFT_QPSK   | 86.820 | 90.610  | PASS |
| n77(3700-3980) | 30 | 90  | 656000 | 240@0 | DFT_QAM16  | 86.570 | 90.550  | PASS |
| n77(3700-3980) | 30 | 90  | 656000 | 240@0 | DFT_QAM64  | 86.780 | 90.560  | PASS |
| n77(3700-3980) | 30 | 90  | 656000 | 240@0 | DFT_QAM256 | 86.870 | 90.590  | PASS |
| n77(3700-3980) | 30 | 90  | 656000 | 245@0 | CP_QPSK    | 87.850 | 92.340  | PASS |
| n77(3700-3980) | 30 | 90  | 662332 | 240@0 | DFT_BPSK   | 86.830 | 90.680  | PASS |
| n77(3700-3980) | 30 | 90  | 662332 | 240@0 | DFT_QPSK   | 86.770 | 90.690  | PASS |
| n77(3700-3980) | 30 | 90  | 662332 | 240@0 | DFT_QAM16  | 86.520 | 90.620  | PASS |
| n77(3700-3980) | 30 | 90  | 662332 | 240@0 | DFT_QAM64  | 86.550 | 90.620  | PASS |
| n77(3700-3980) | 30 | 90  | 662332 | 240@0 | DFT_QAM256 | 86.810 | 90.630  | PASS |
| n77(3700-3980) | 30 | 90  | 662332 | 245@0 | CP_QPSK    | 87.850 | 92.440  | PASS |
| n77(3700-3980) | 30 | 100 | 650000 | 270@0 | DFT_BPSK   | 96.880 | 101.580 | PASS |
| n77(3700-3980) | 30 | 100 | 650000 | 270@0 | DFT_QPSK   | 96.860 | 101.560 | PASS |
| n77(3700-3980) | 30 | 100 | 650000 | 270@0 | DFT_QAM16  | 96.920 | 101.590 | PASS |
| n77(3700-3980) | 30 | 100 | 650000 | 270@0 | DFT_QAM64  | 96.940 | 101.620 | PASS |
| n77(3700-3980) | 30 | 100 | 650000 | 270@0 | DFT_QAM256 | 96.900 | 101.590 | PASS |

|                |    |     |        |       |            |        |         |      |
|----------------|----|-----|--------|-------|------------|--------|---------|------|
| n77(3700-3980) | 30 | 100 | 650000 | 273@0 | CP_QPSK    | 97.650 | 102.680 | PASS |
| n77(3700-3980) | 30 | 100 | 656000 | 270@0 | DFT_BPSK   | 96.870 | 101.680 | PASS |
| n77(3700-3980) | 30 | 100 | 656000 | 270@0 | DFT_QPSK   | 96.860 | 101.650 | PASS |
| n77(3700-3980) | 30 | 100 | 656000 | 270@0 | DFT_QAM16  | 96.920 | 101.680 | PASS |
| n77(3700-3980) | 30 | 100 | 656000 | 270@0 | DFT_QAM64  | 96.940 | 101.720 | PASS |
| n77(3700-3980) | 30 | 100 | 656000 | 270@0 | DFT_QAM256 | 96.900 | 101.670 | PASS |
| n77(3700-3980) | 30 | 100 | 656000 | 273@0 | CP_QPSK    | 97.680 | 102.770 | PASS |
| n77(3700-3980) | 30 | 100 | 662000 | 270@0 | DFT_BPSK   | 96.830 | 101.740 | PASS |
| n77(3700-3980) | 30 | 100 | 662000 | 270@0 | DFT_QPSK   | 96.830 | 101.710 | PASS |
| n77(3700-3980) | 30 | 100 | 662000 | 270@0 | DFT_QAM16  | 96.880 | 101.770 | PASS |
| n77(3700-3980) | 30 | 100 | 662000 | 270@0 | DFT_QAM64  | 96.910 | 101.800 | PASS |
| n77(3700-3980) | 30 | 100 | 662000 | 270@0 | DFT_QAM256 | 96.860 | 101.720 | PASS |
| n77(3700-3980) | 30 | 100 | 662000 | 273@0 | CP_QPSK    | 97.680 | 102.860 | PASS |

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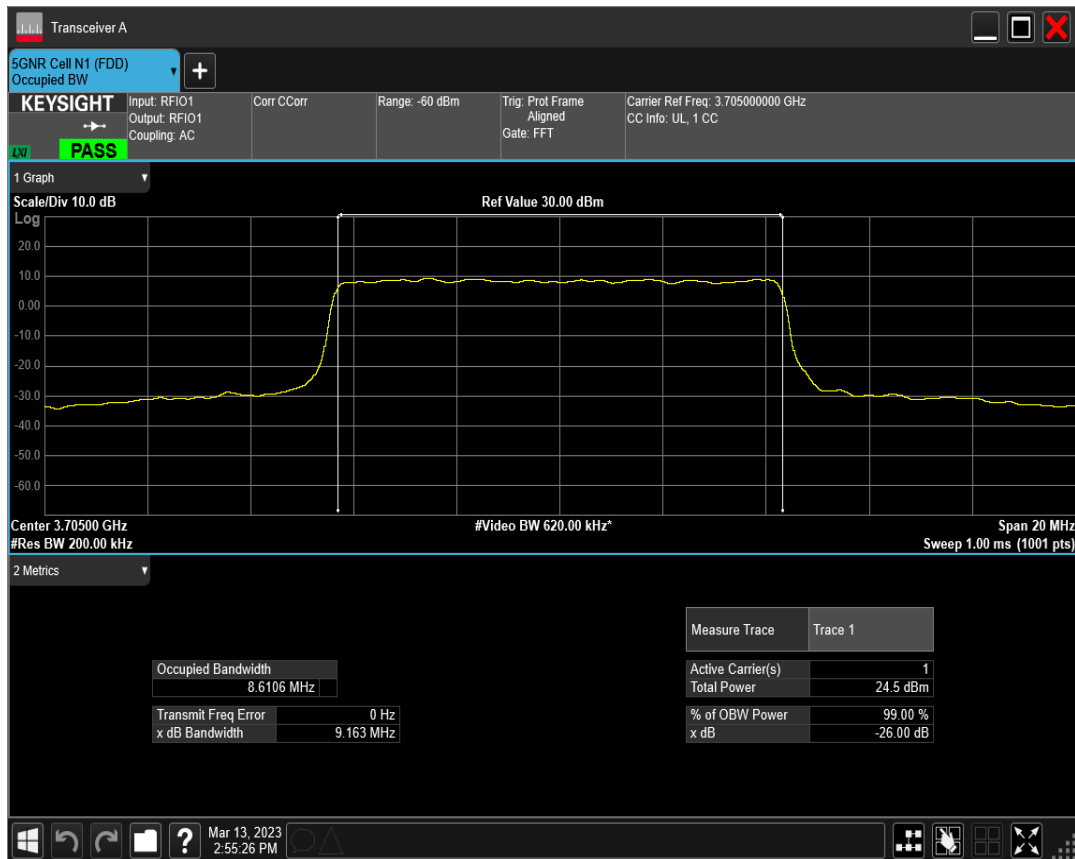
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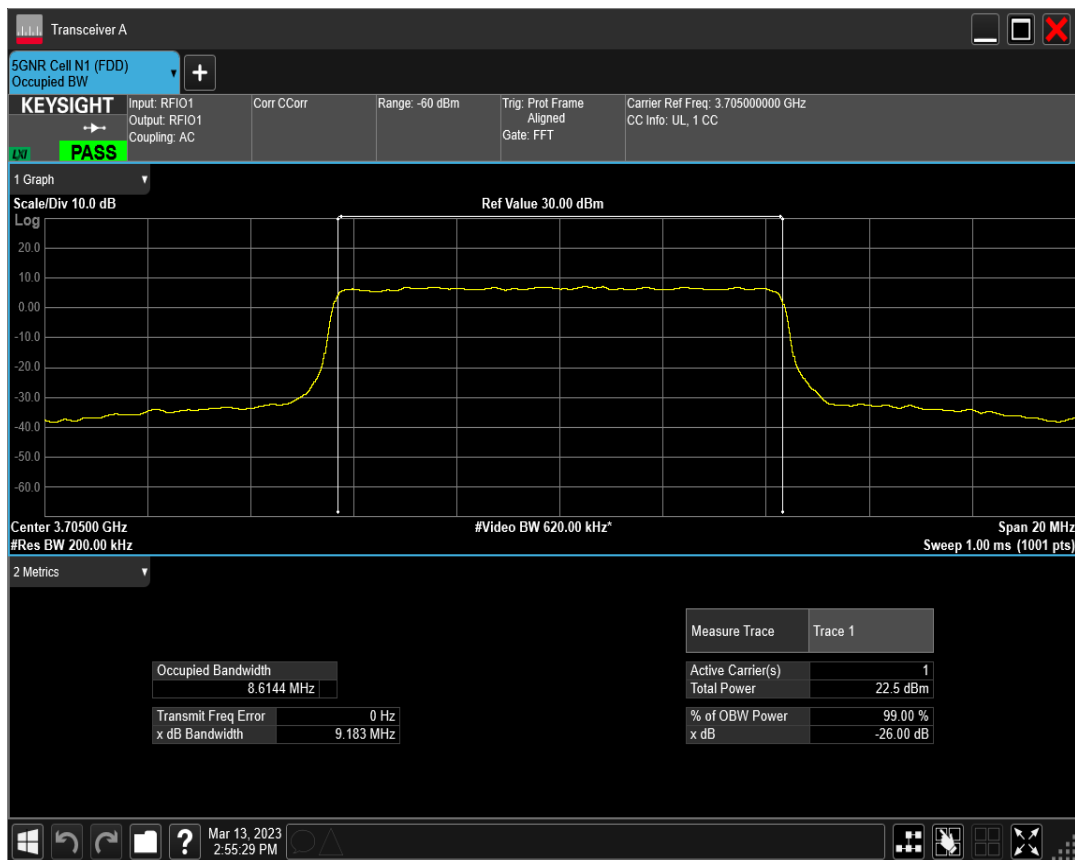
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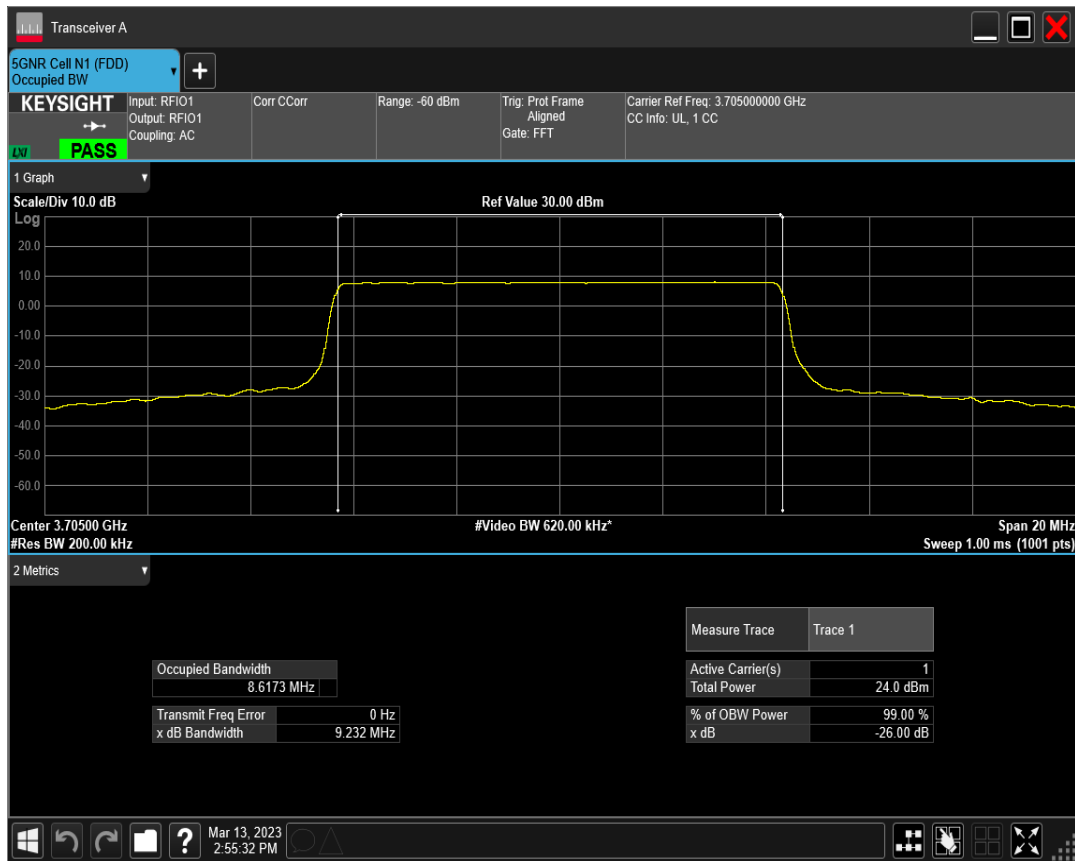
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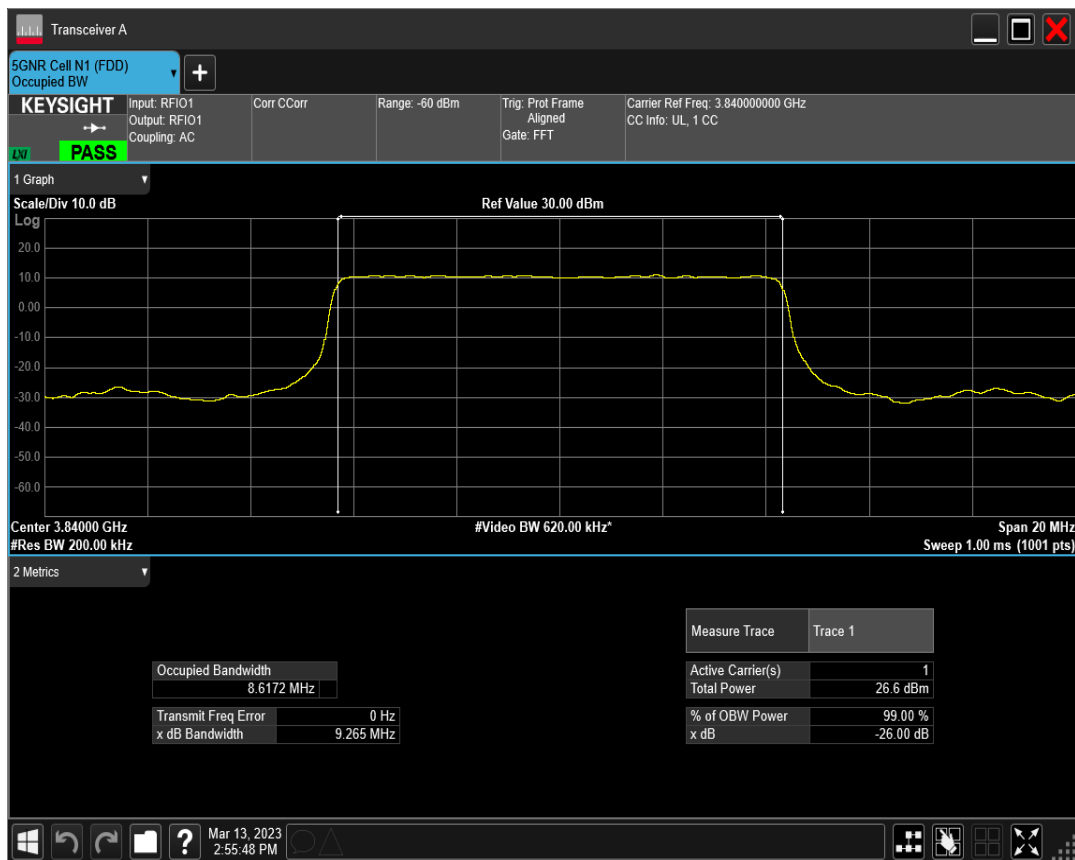
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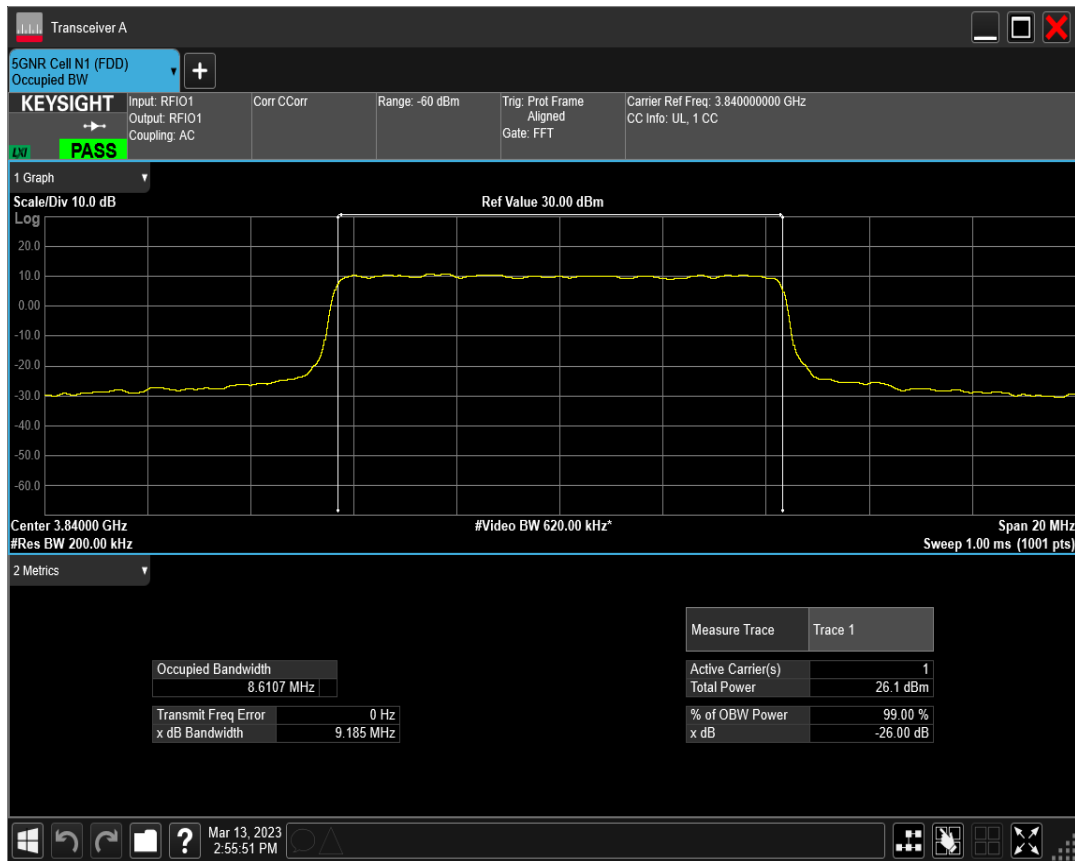
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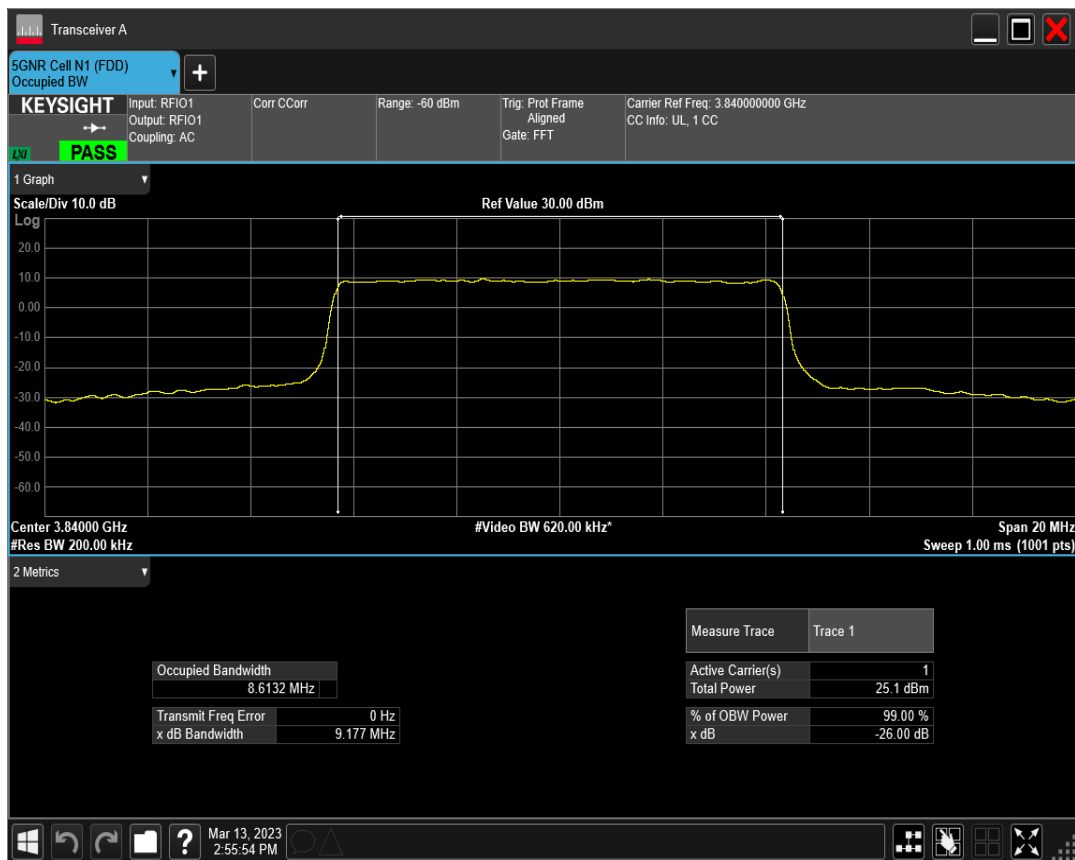
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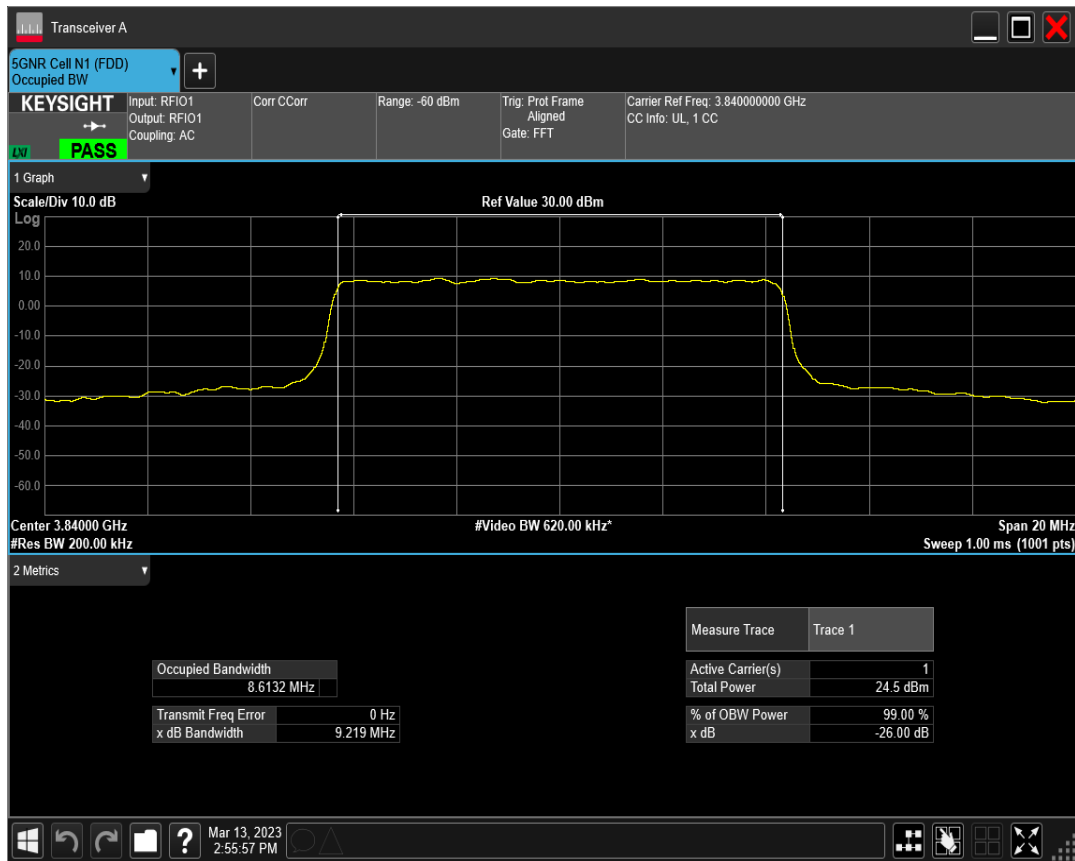
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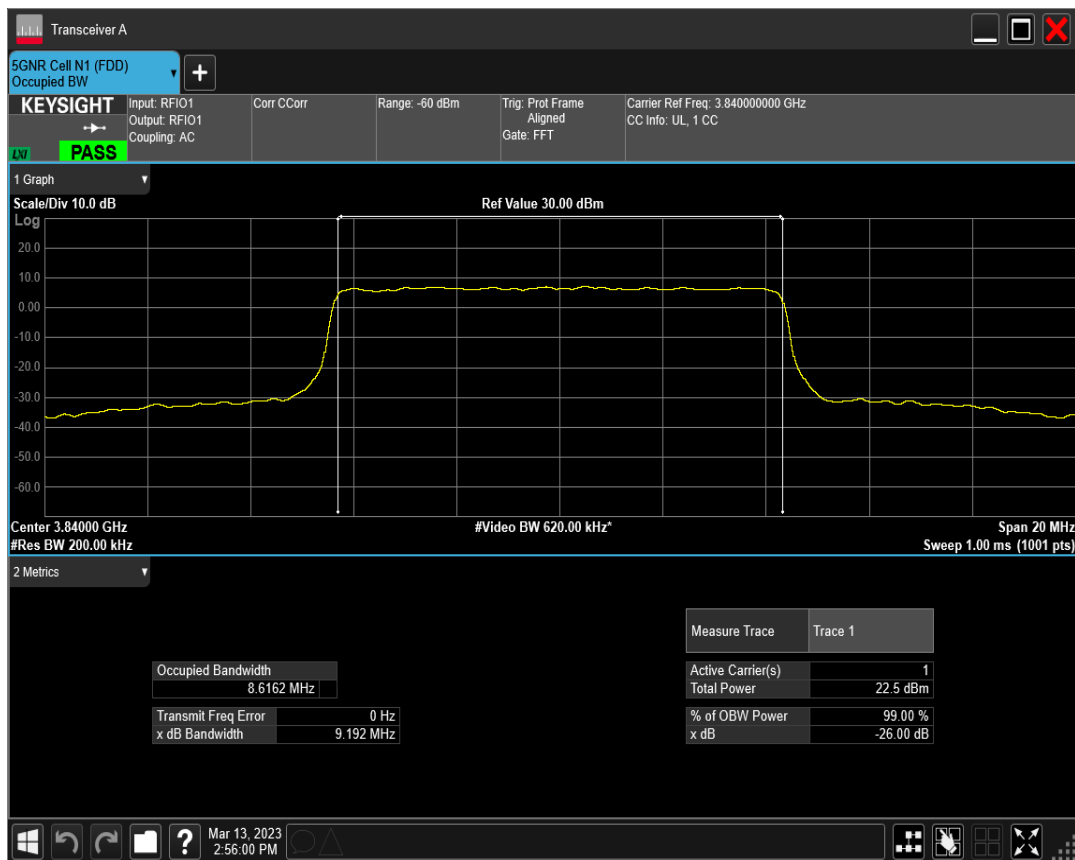
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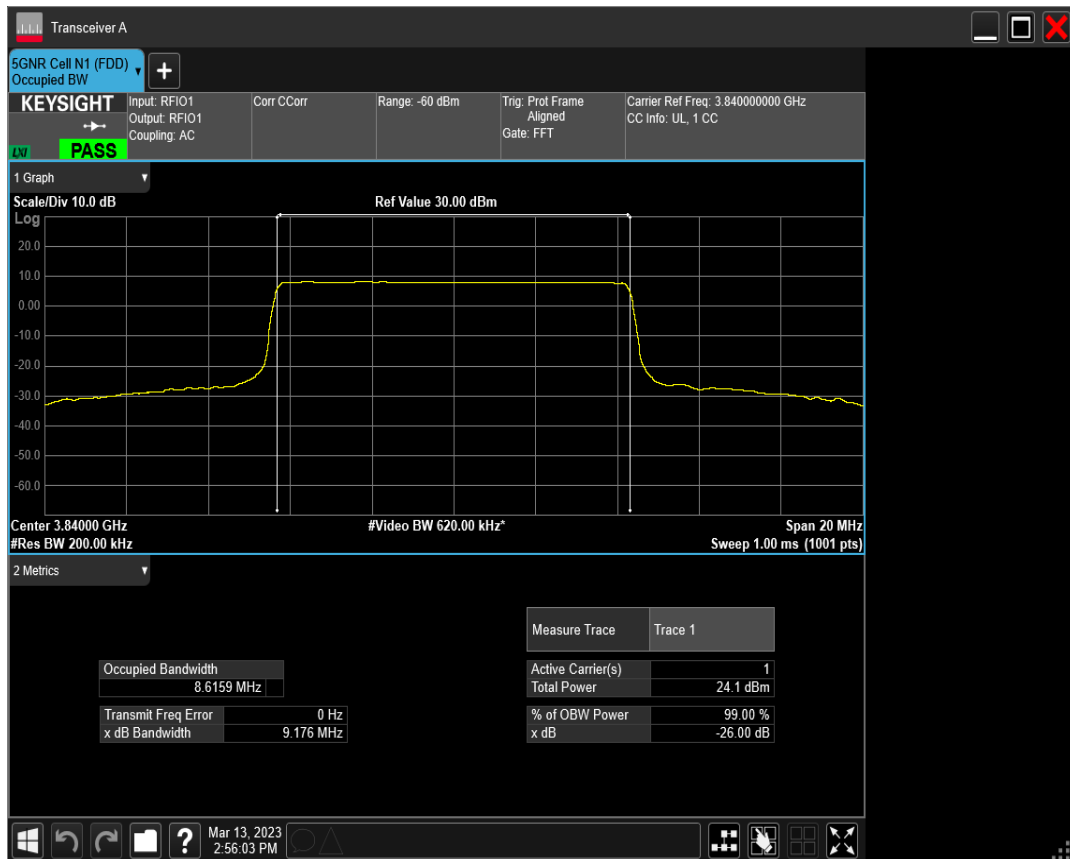
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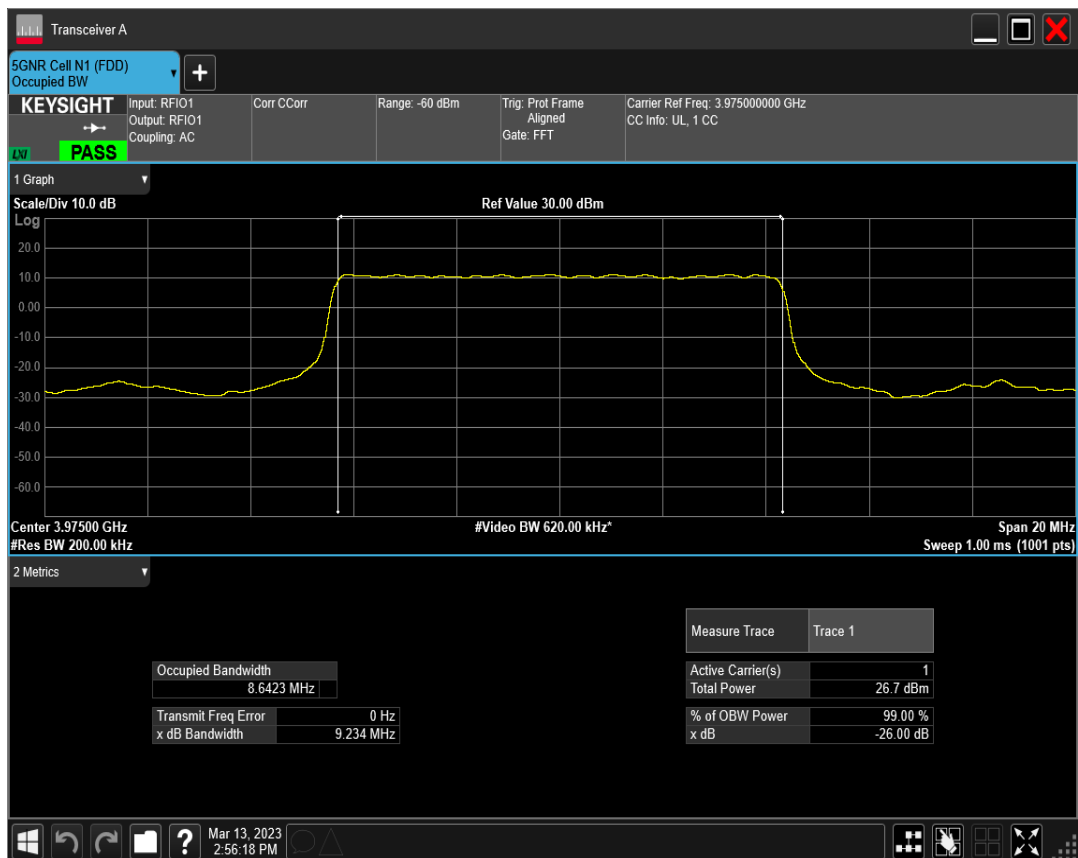
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n77(3700-3980) SCS=30kHz CP\_QPSK BW=10MHz Channel=656000 RB=24@0



n77(3700-3980) SCS=30kHz DFT\_BPSK BW=10MHz Channel=665000 RB=24@0



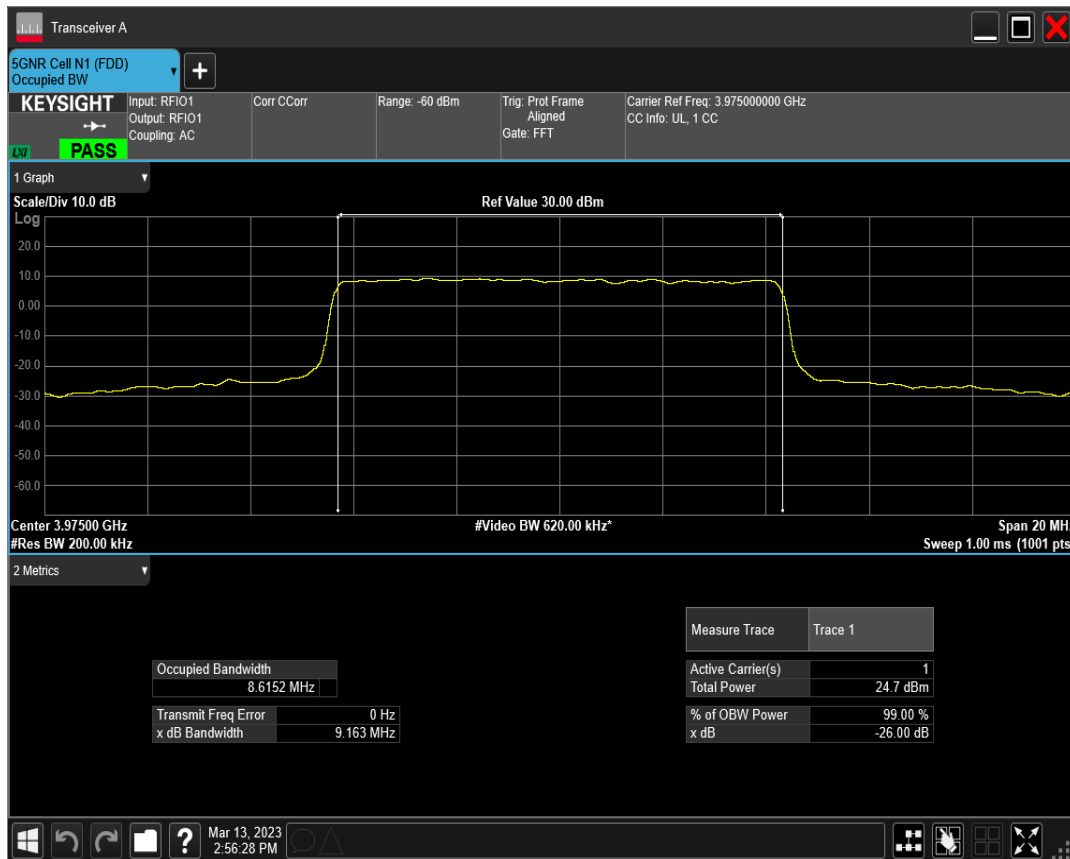
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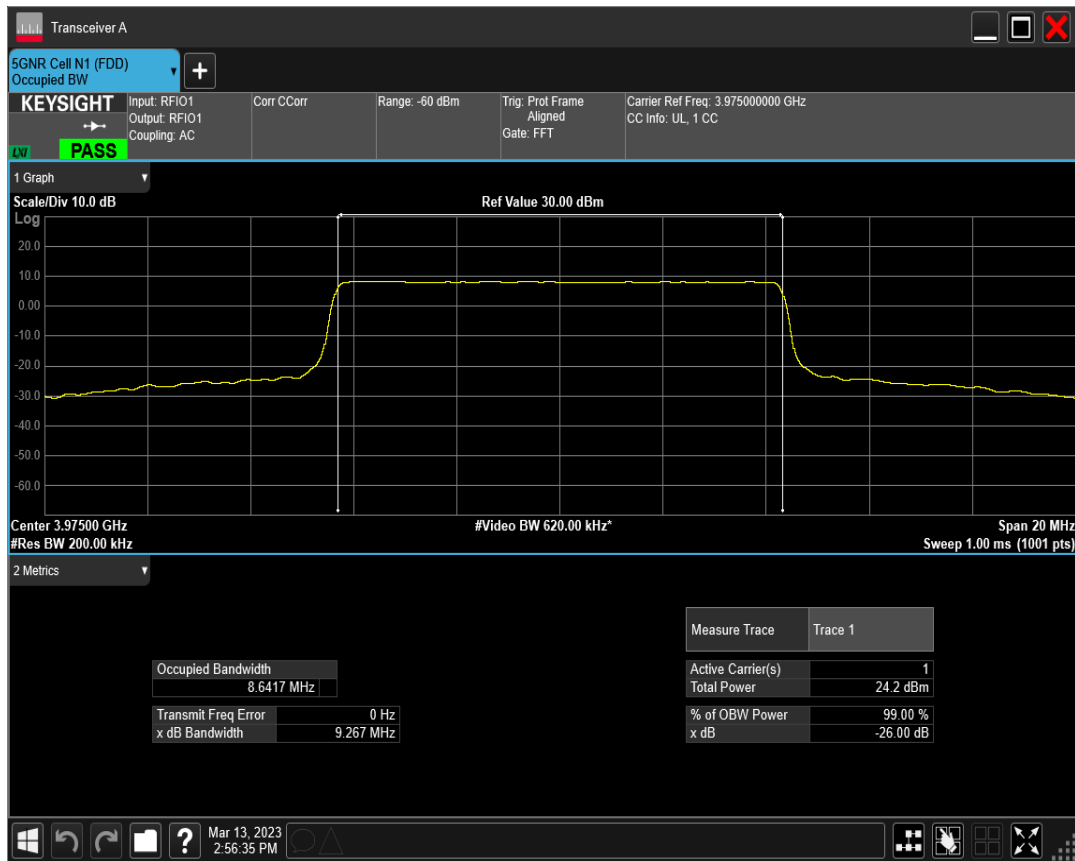
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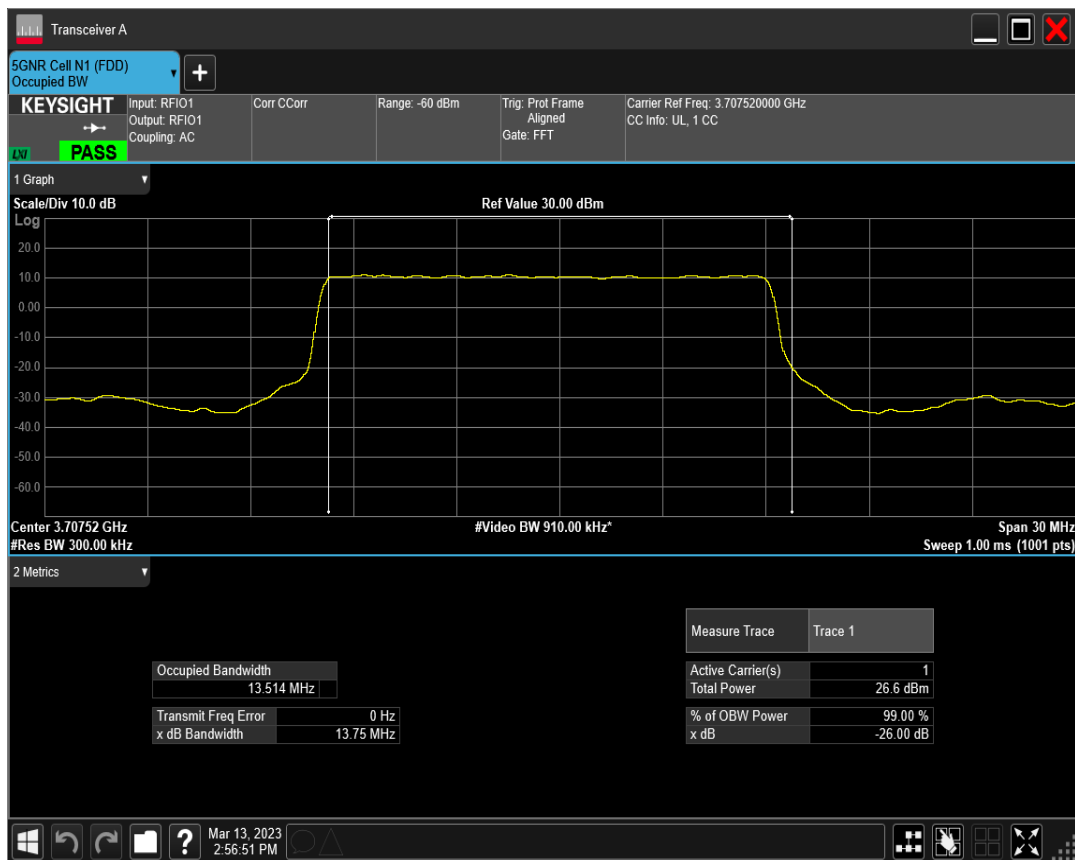
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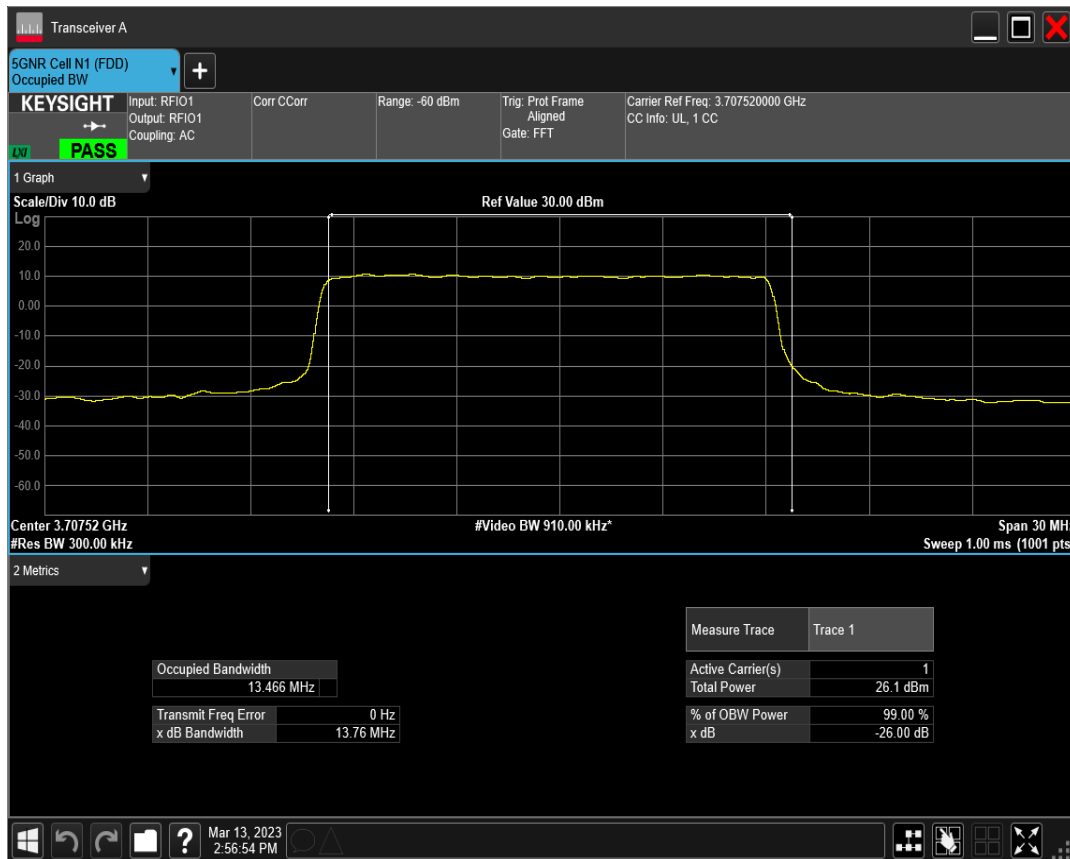
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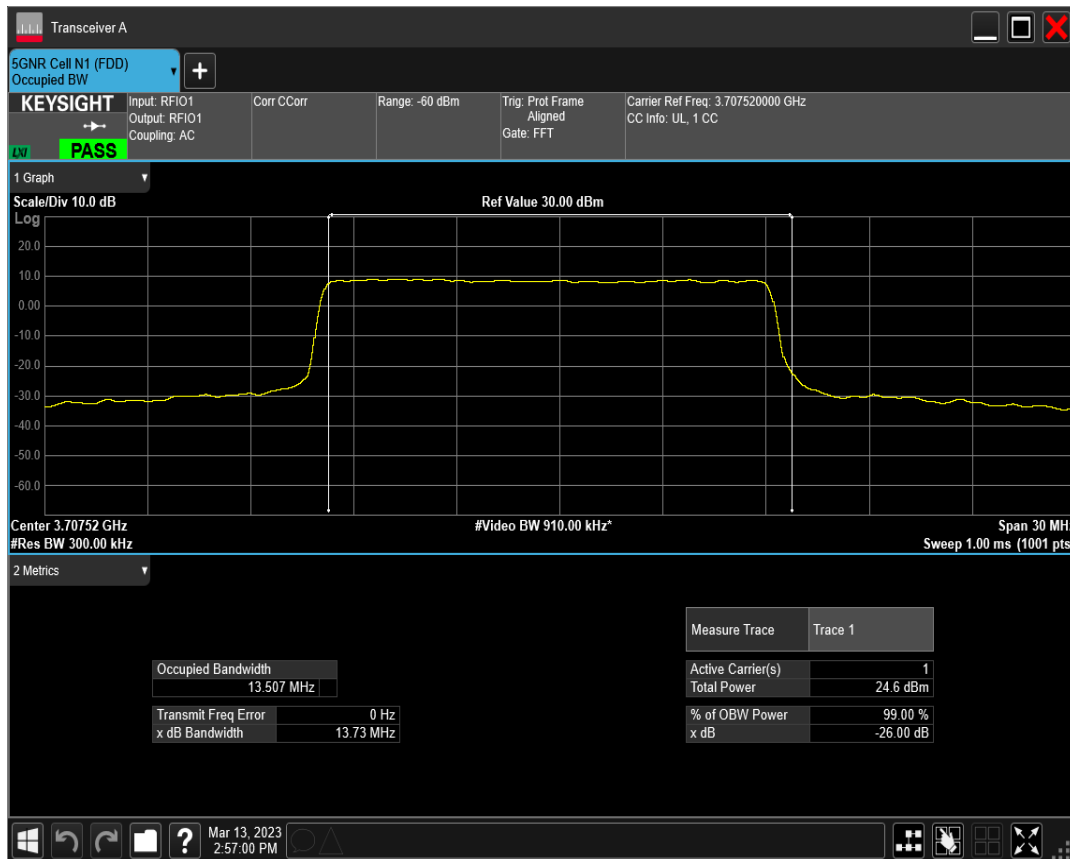
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n77(3700-3980) SCS=30kHz DFT\_QAM16 BW=15MHz Channel=647168 RB=36@0



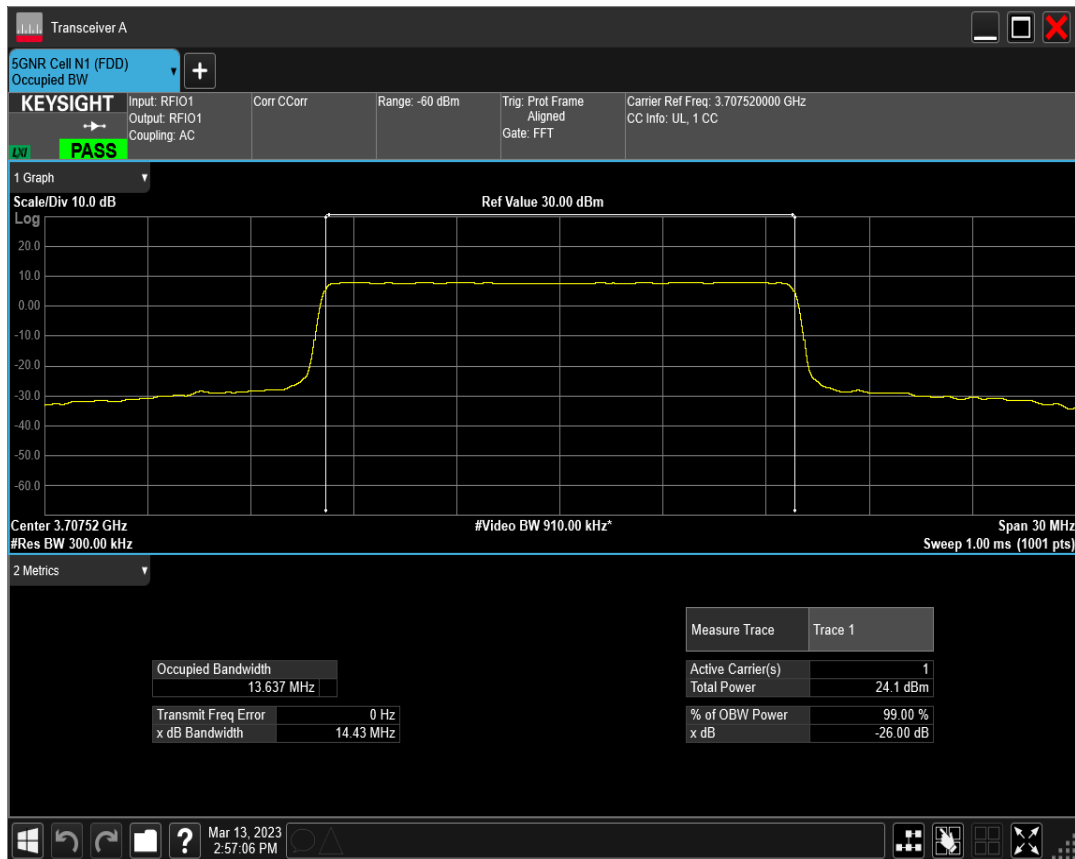
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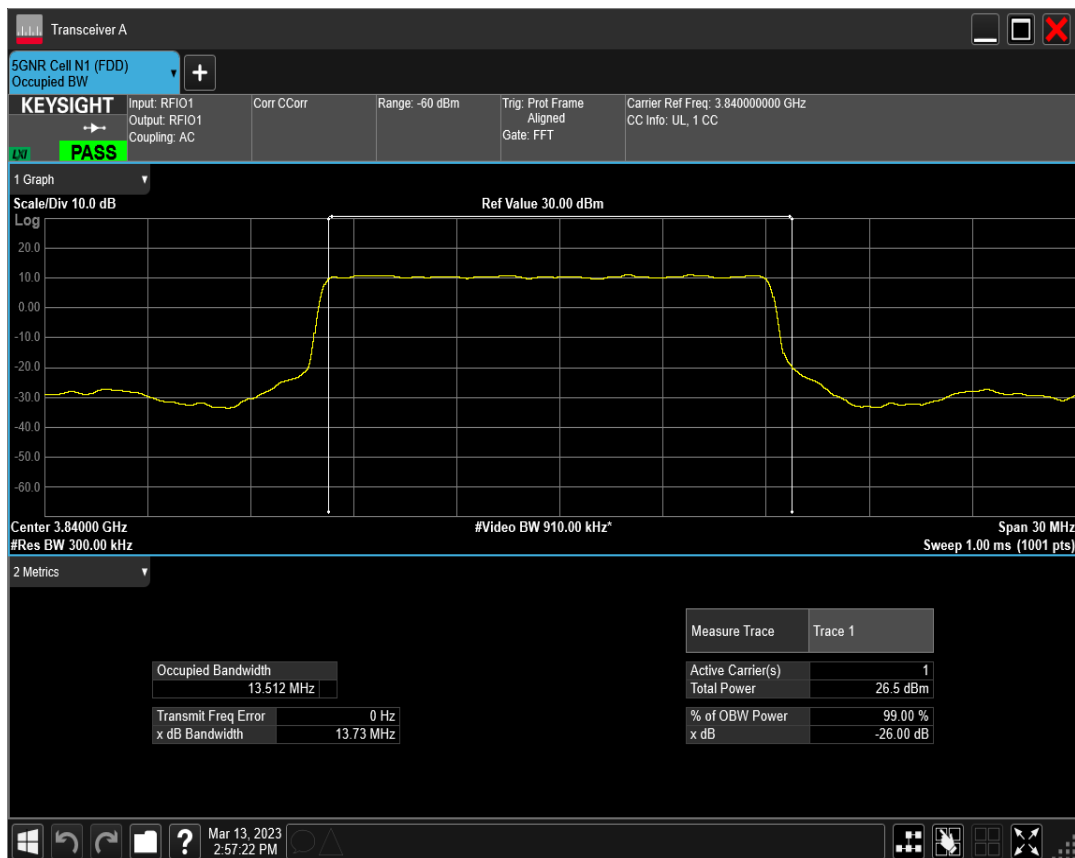
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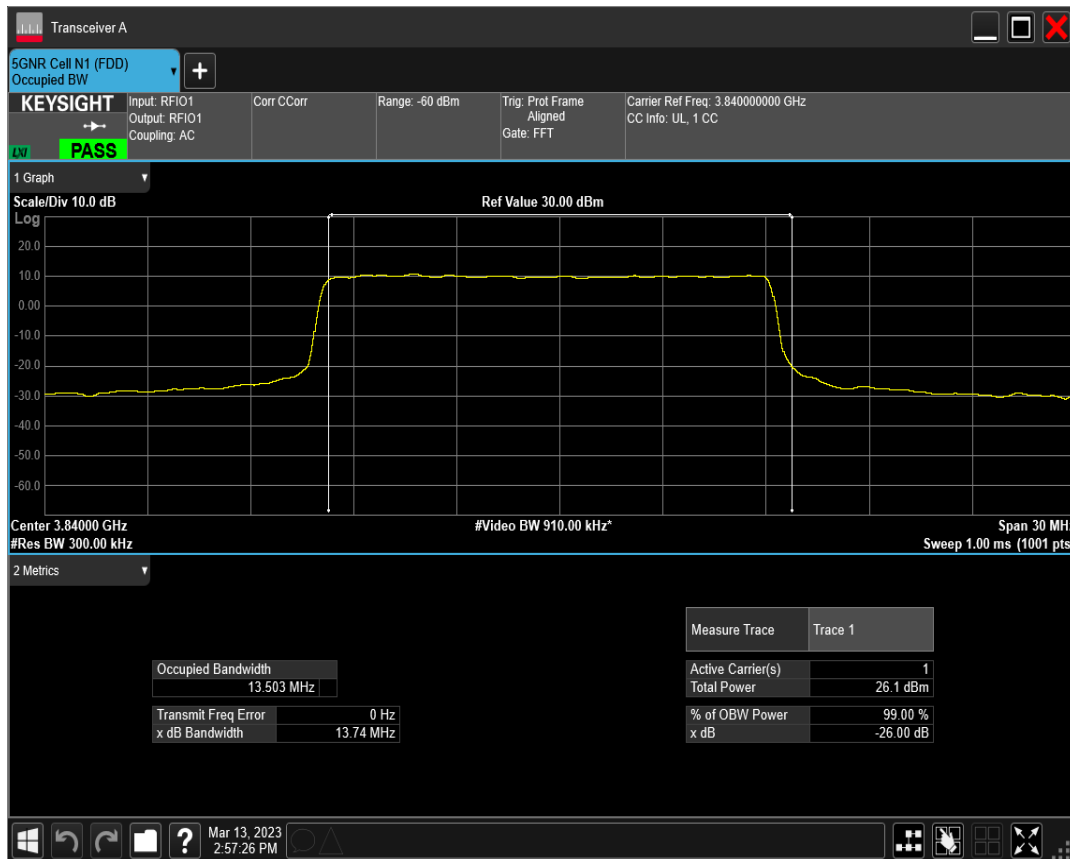
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n77(3700-3980) SCS=30kHz DFT\_BPSK BW=15MHz Channel=656000 RB=36@0



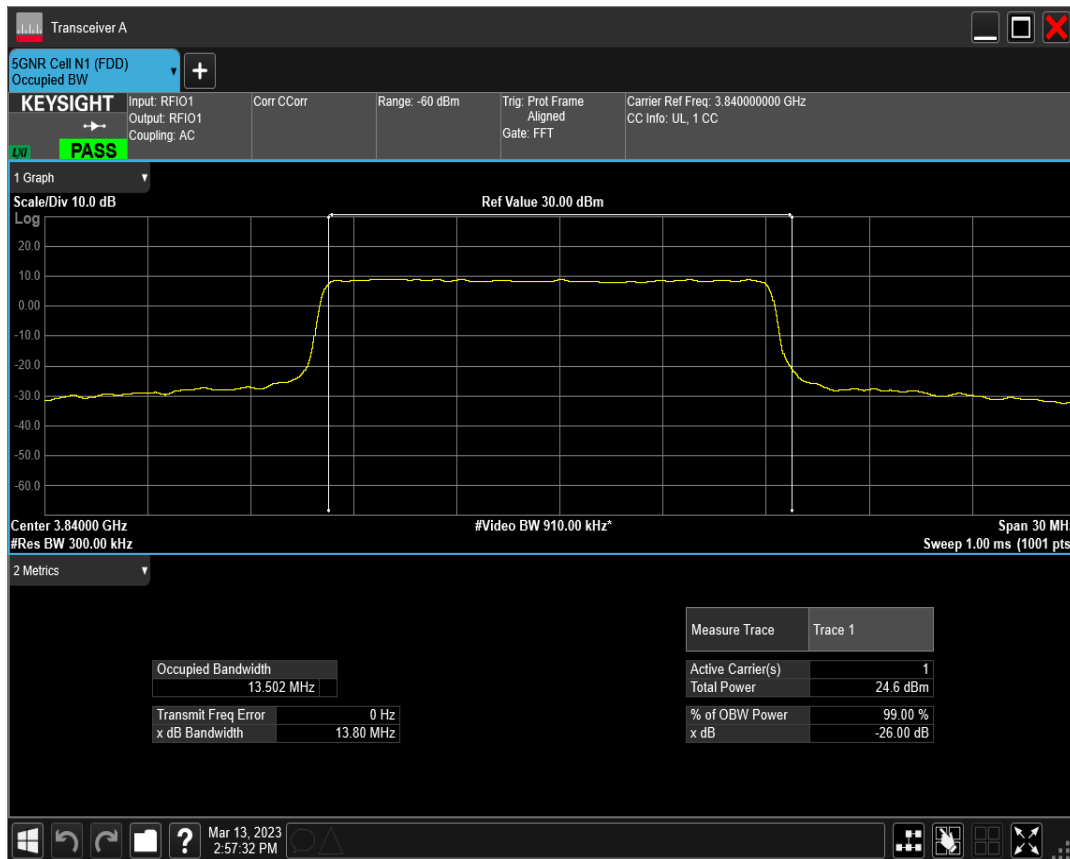
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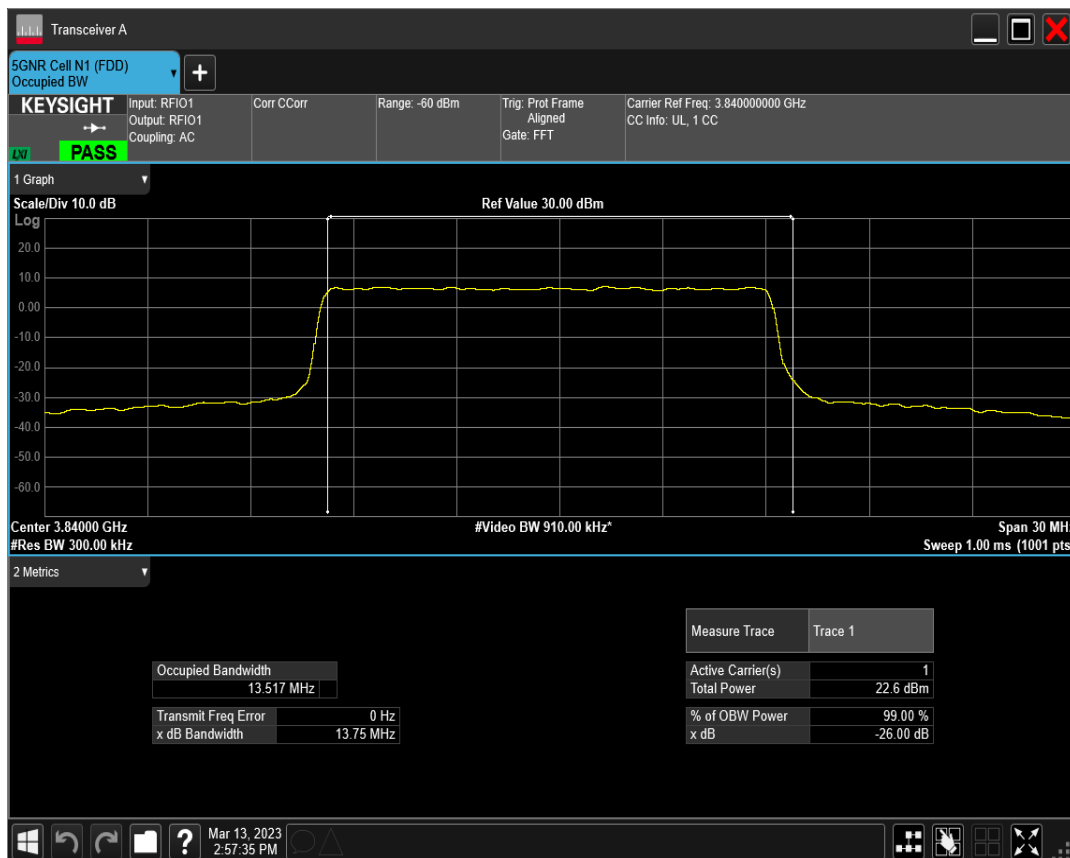
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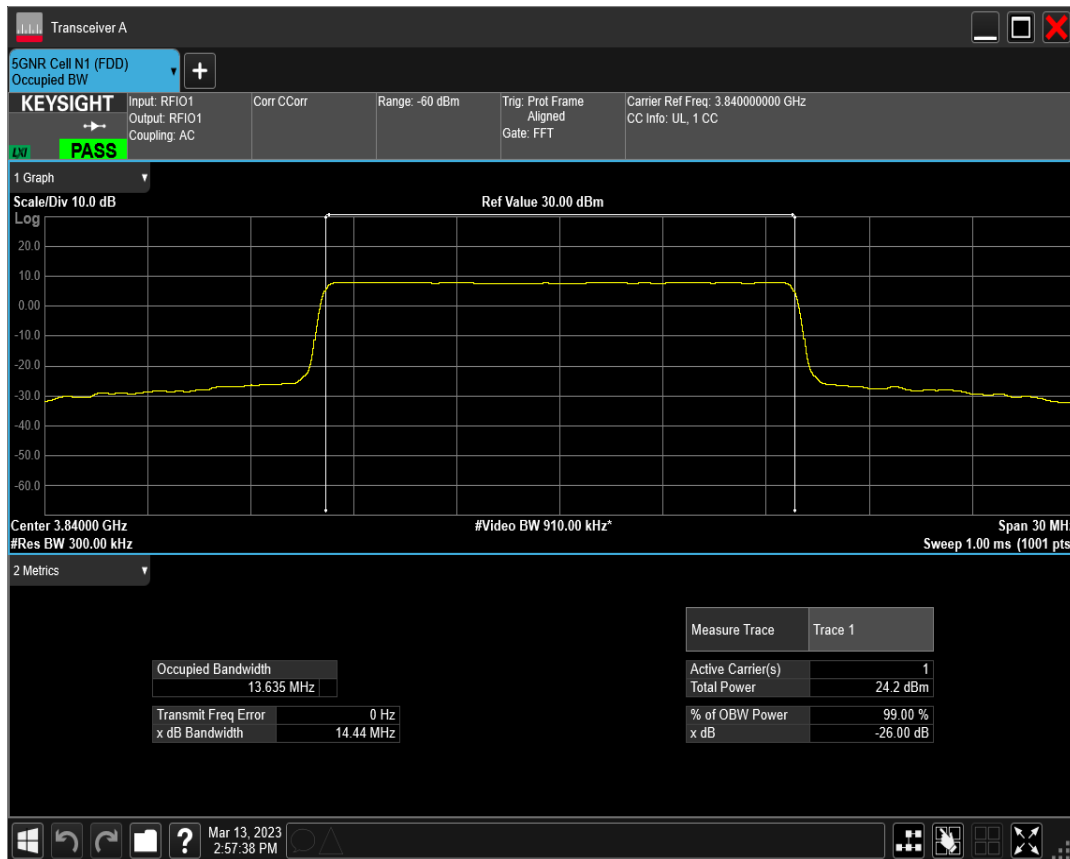
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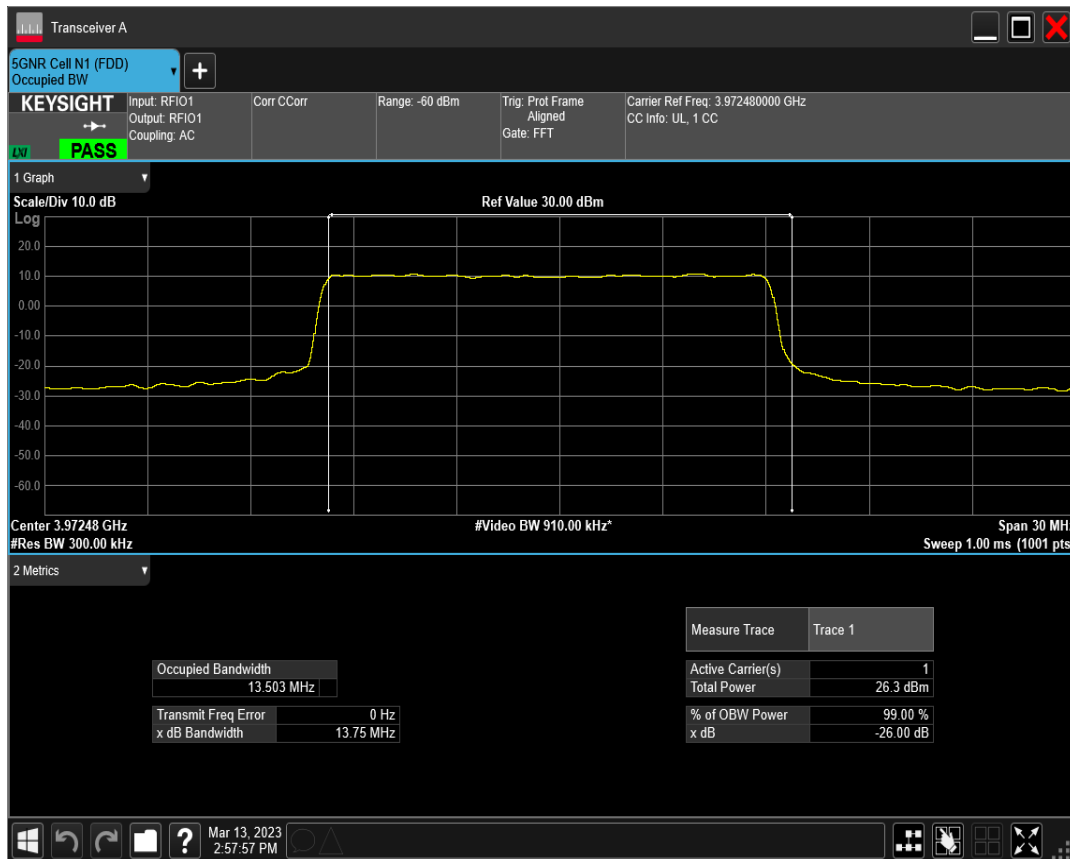
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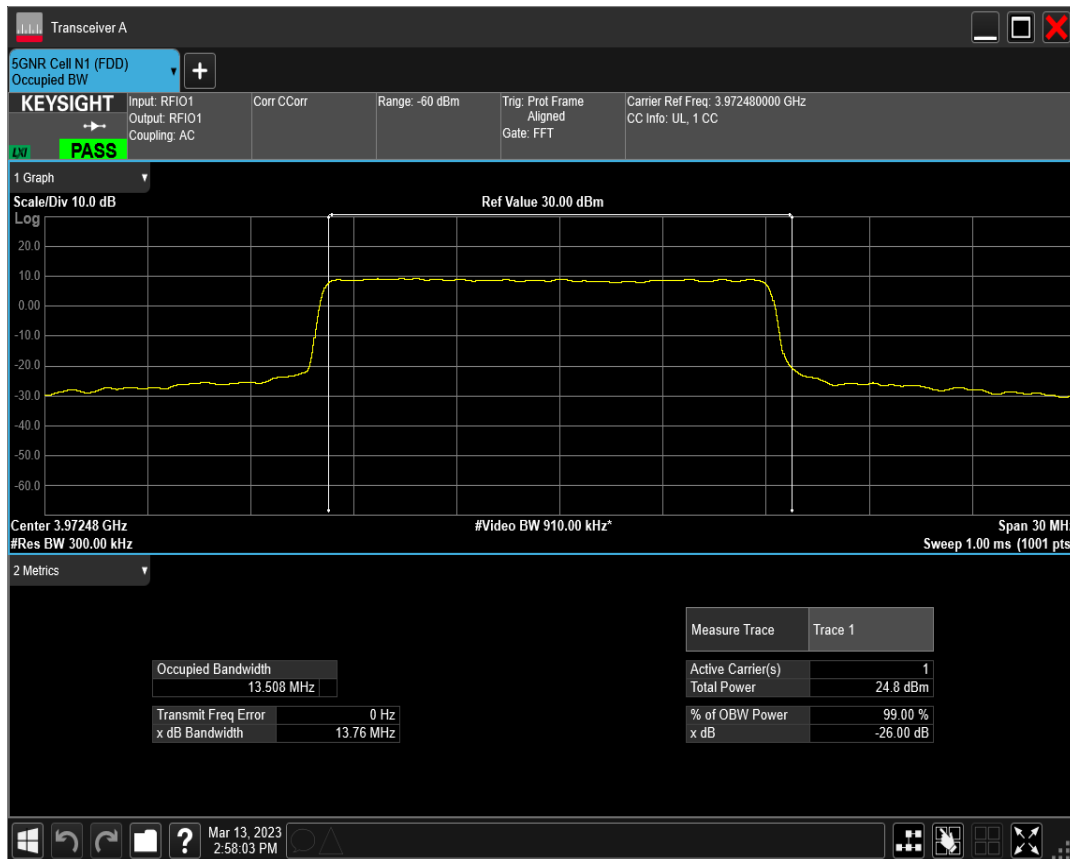
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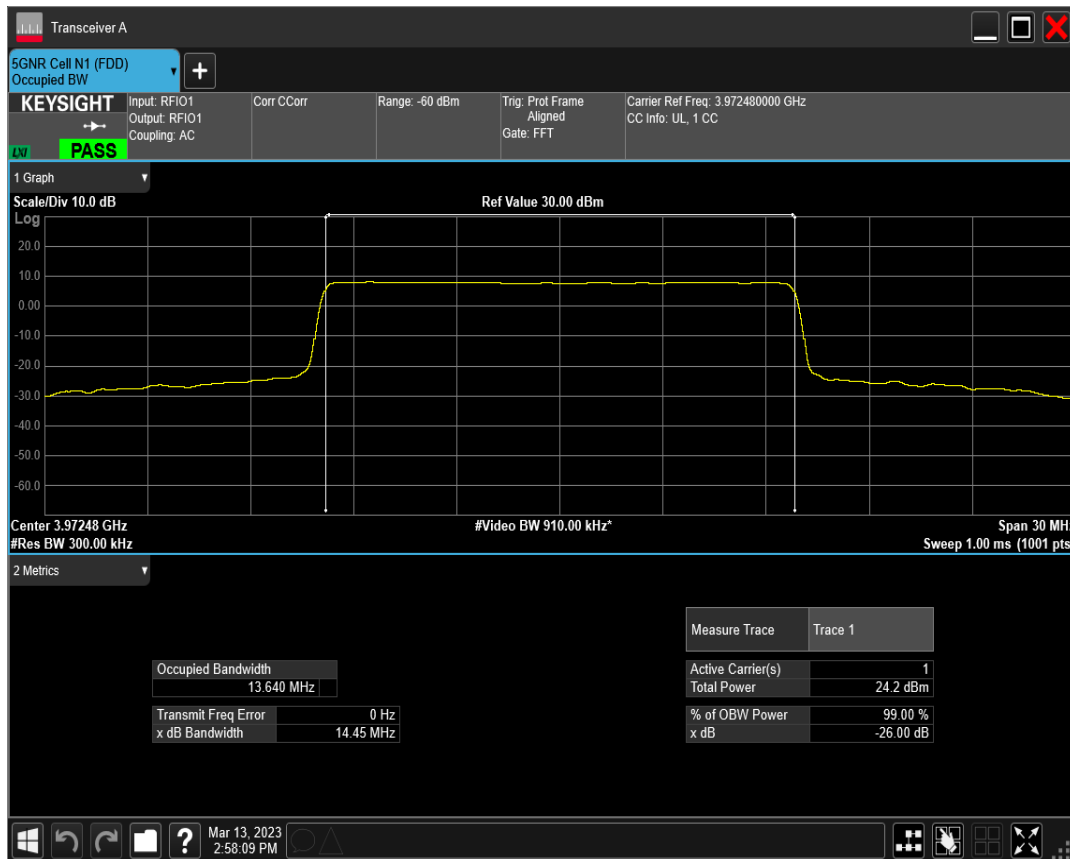
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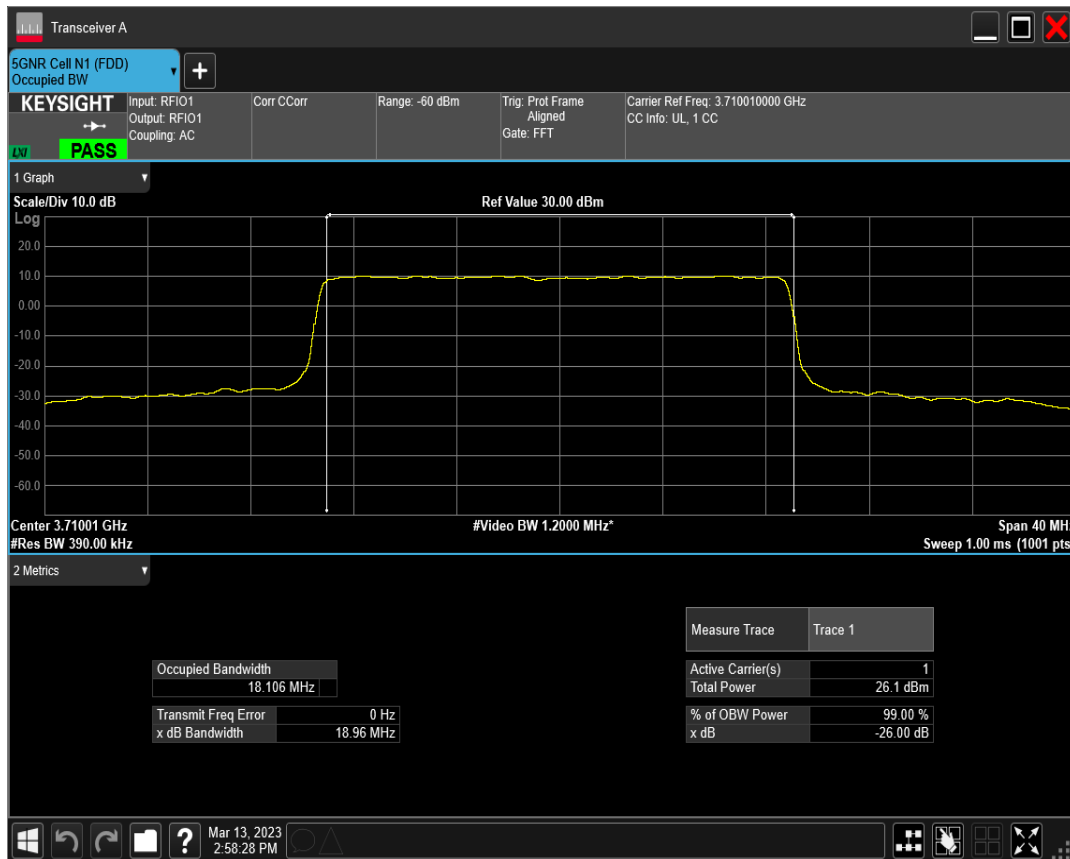
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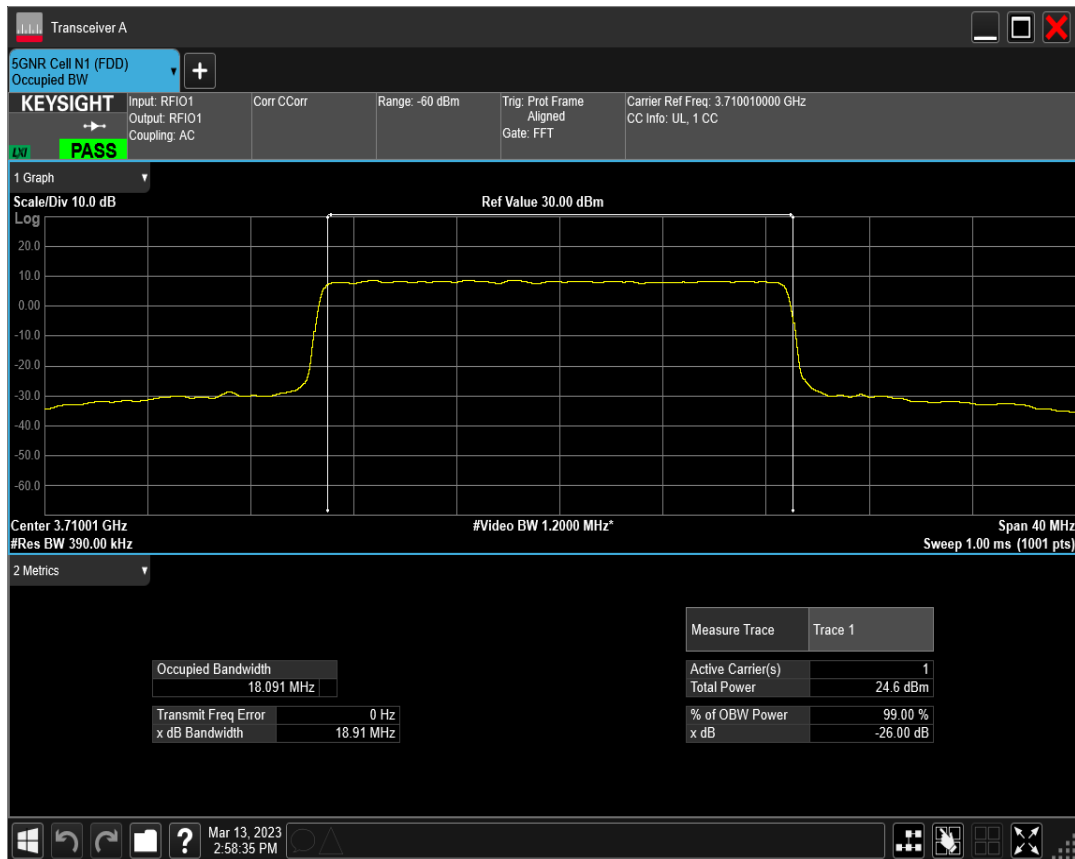
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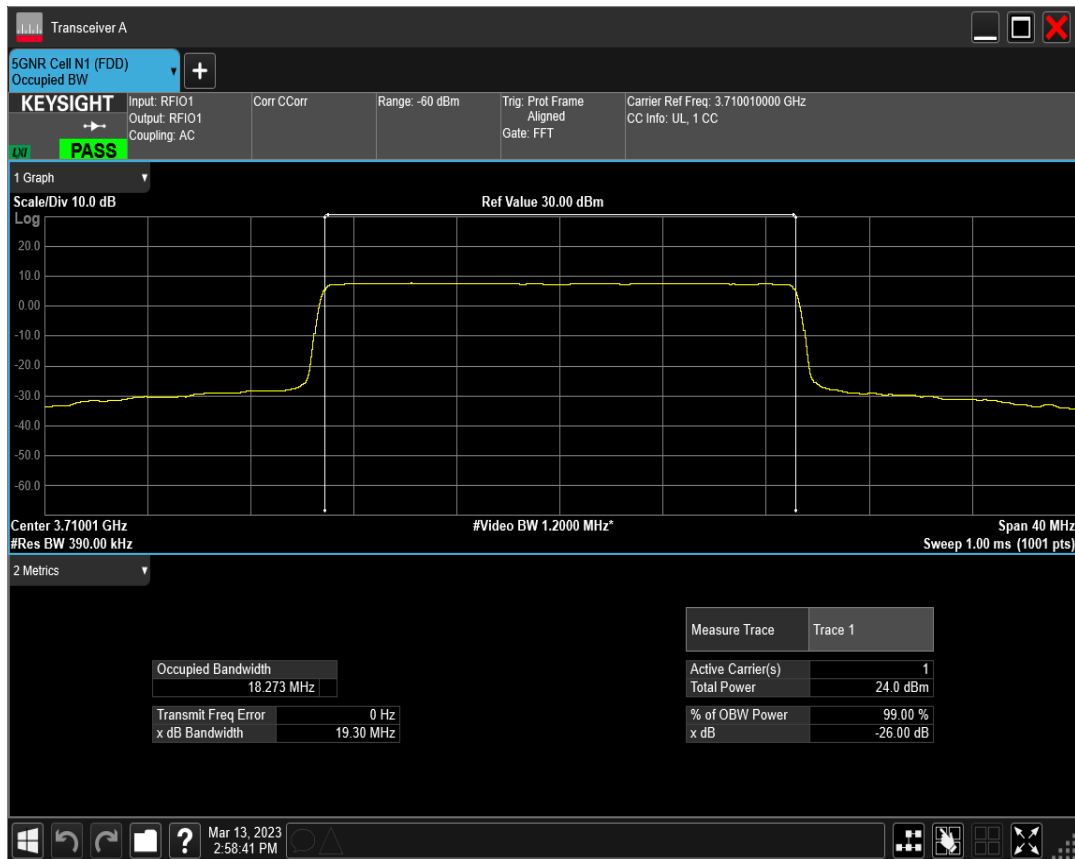
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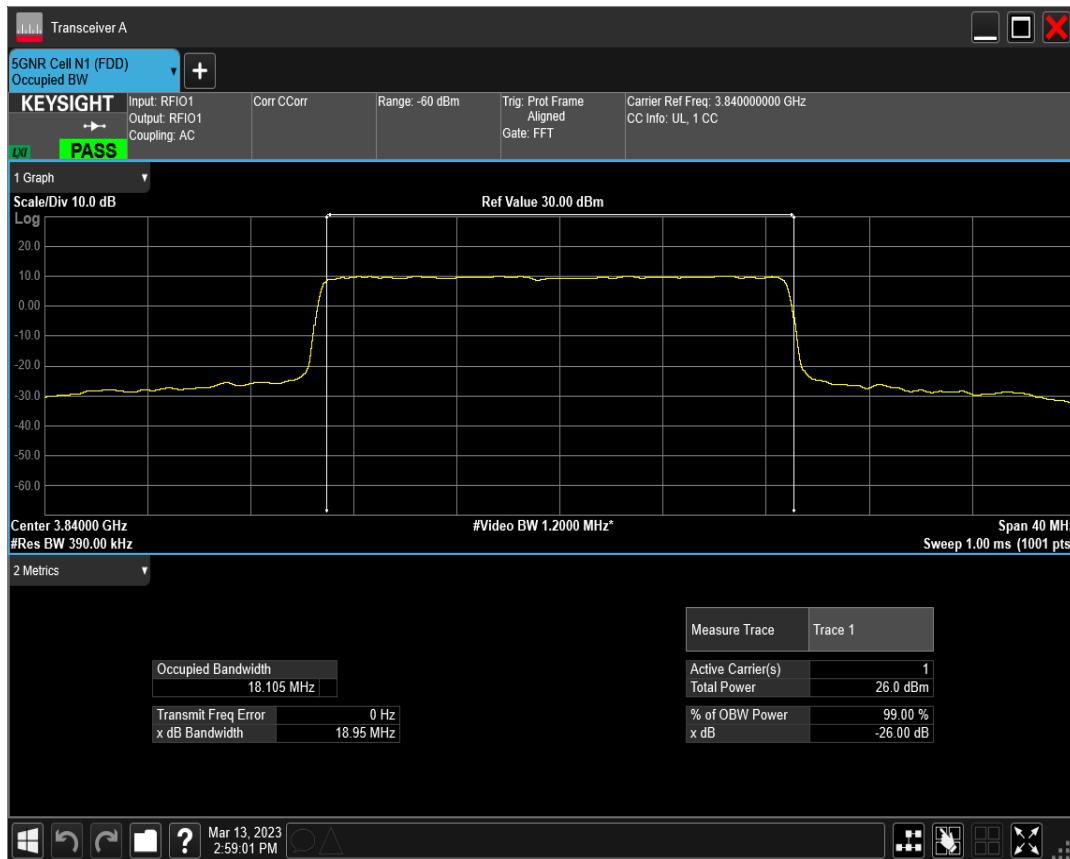
n77(3700-3980) SCS=30kHz CP\_QPSK BW=20MHz Channel=647334 RB=51@0



n77(3700-3980) SCS=30kHz DFT\_BPSK BW=20MHz Channel=656000 RB=50@0



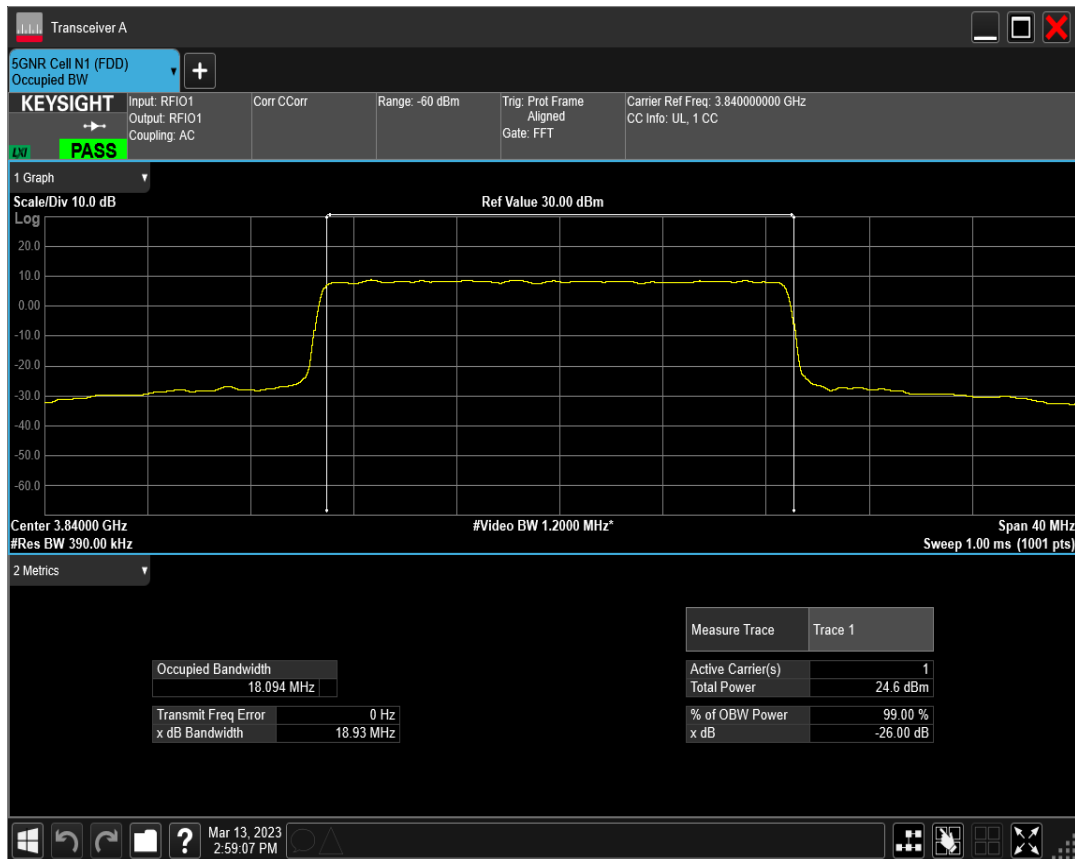
n77(3700-3980) SCS=30kHz DFT\_QPSK BW=20MHz Channel=656000 RB=50@0



n77(3700-3980) SCS=30kHz DFT\_QAM16 BW=20MHz Channel=656000 RB=50@0



n77(3700-3980) SCS=30kHz DFT\_QAM64 BW=20MHz Channel=656000 RB=50@0



n77(3700-3980) SCS=30kHz DFT\_QAM256 BW=20MHz Channel=656000 RB=50@0



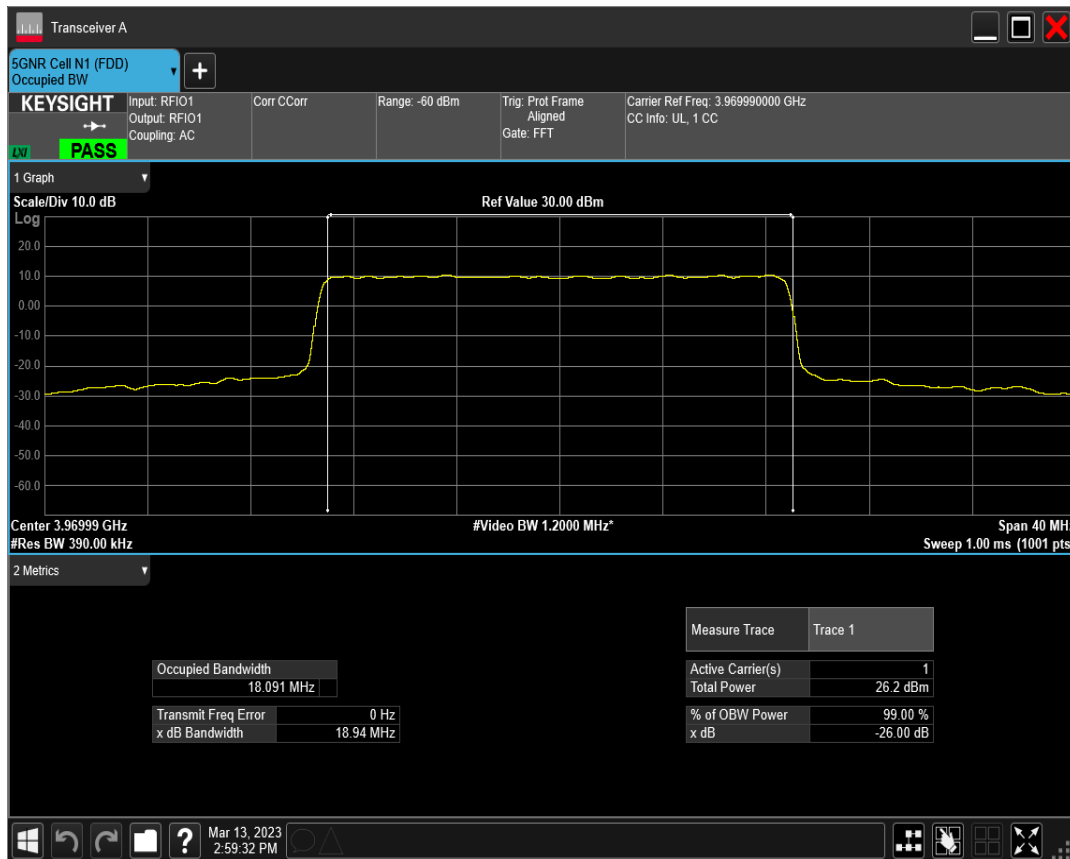
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n77(3700-3980) SCS=30kHz DFT\_BPSK BW=20MHz Channel=664666 RB=50@0



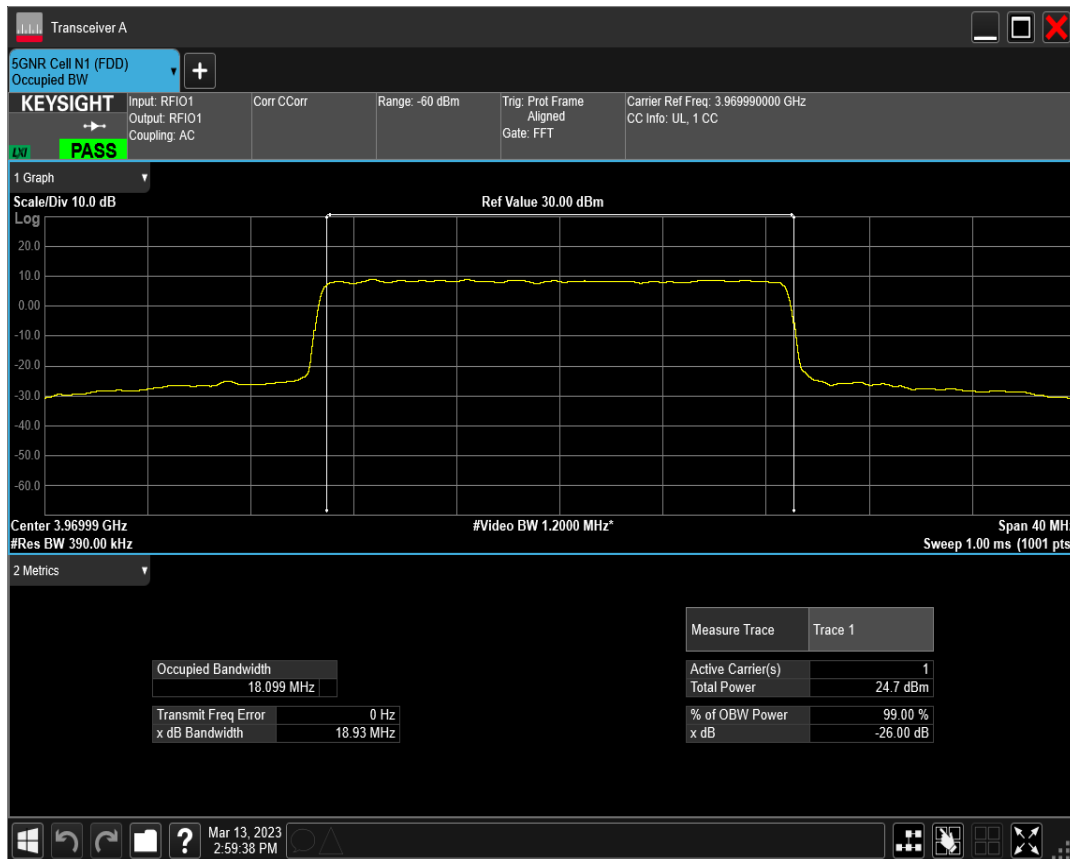
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n77(3700-3980) SCS=30kHz DFT\_QAM16 BW=20MHz Channel=664666 RB=50@0



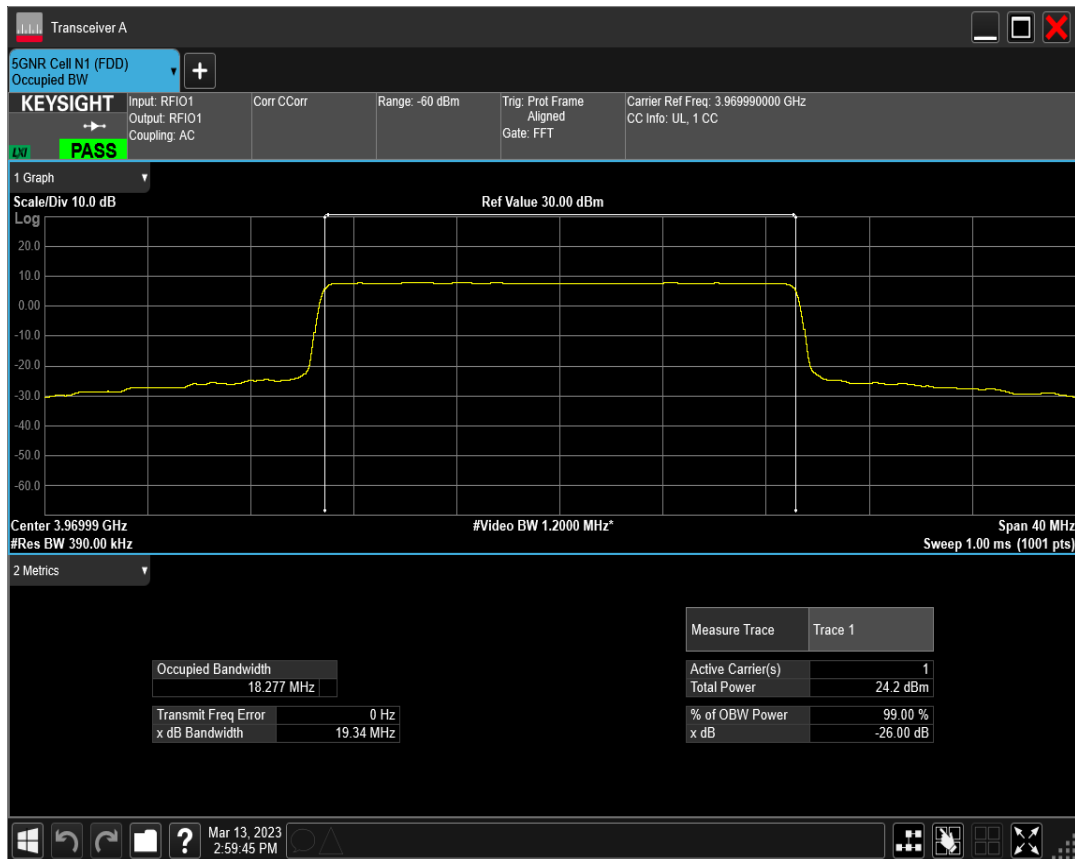
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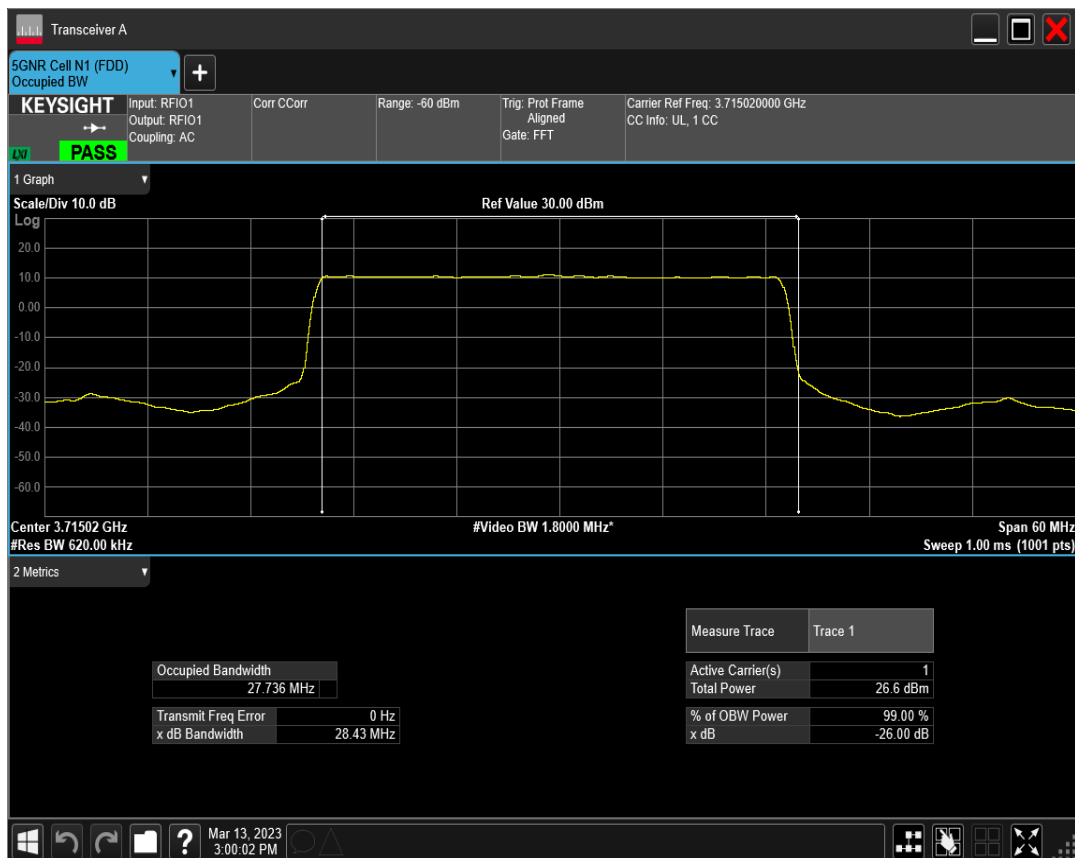
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n77(3700-3980) SCS=30kHz CP\_QPSK BW=20MHz Channel=664666 RB=51@0



n77(3700-3980) SCS=30kHz DFT\_BPSK BW=30MHz Channel=647668 RB=75@0



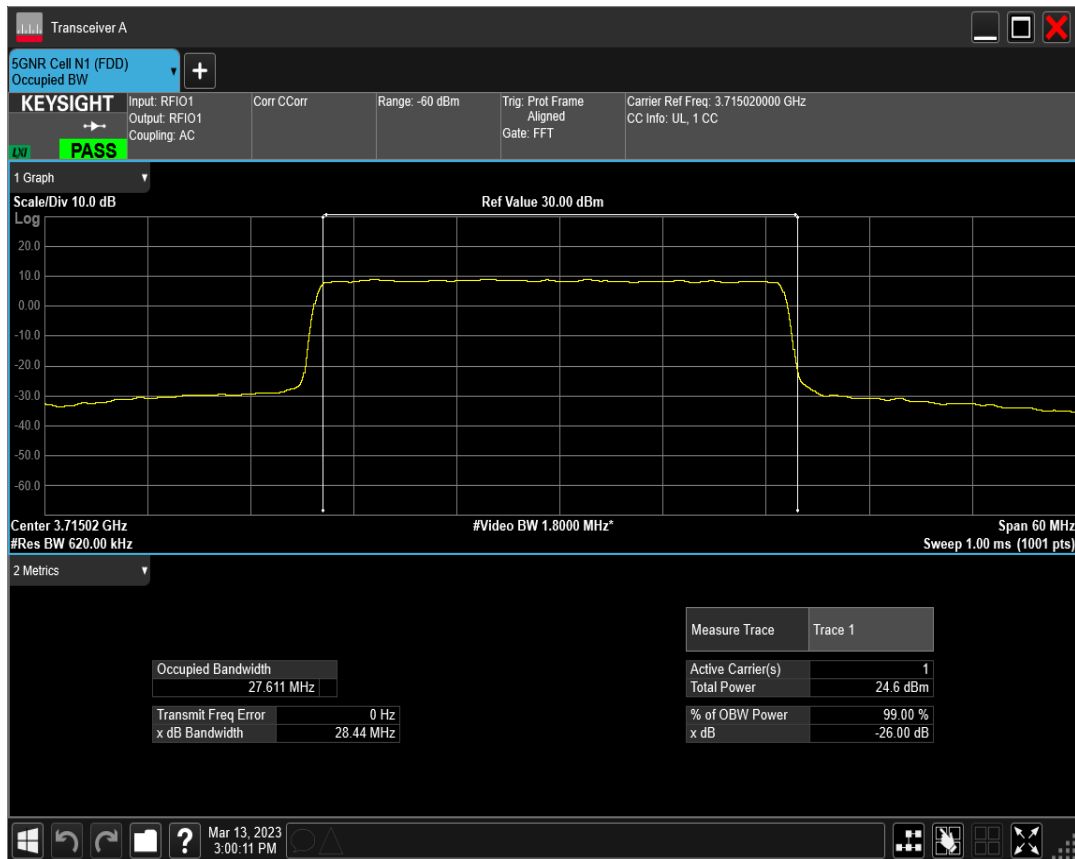
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n77(3700-3980) SCS=30kHz DFT\_QAM16 BW=30MHz Channel=647668 RB=75@0



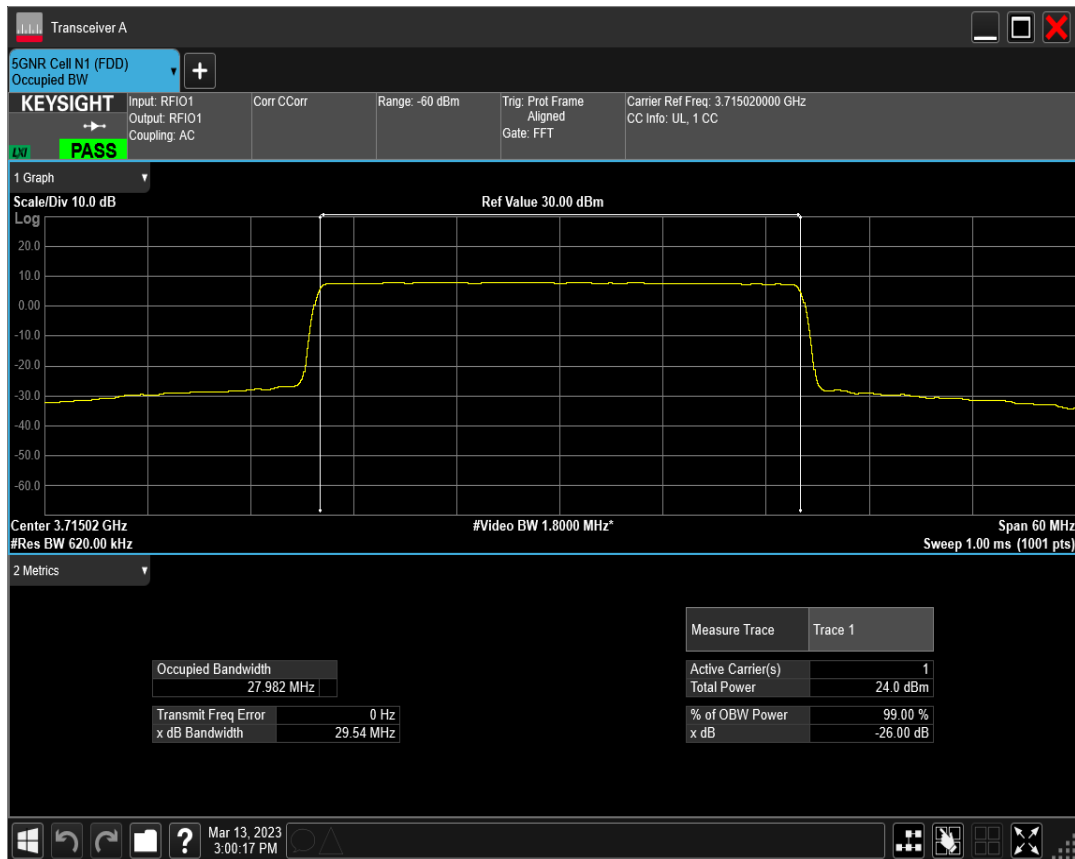
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n77(3700-3980) SCS=30kHz DFT\_QAM256 BW=30MHz Channel=647668 RB=75@0



n77(3700-3980) SCS=30kHz CP\_QPSK BW=30MHz Channel=647668 RB=78@0



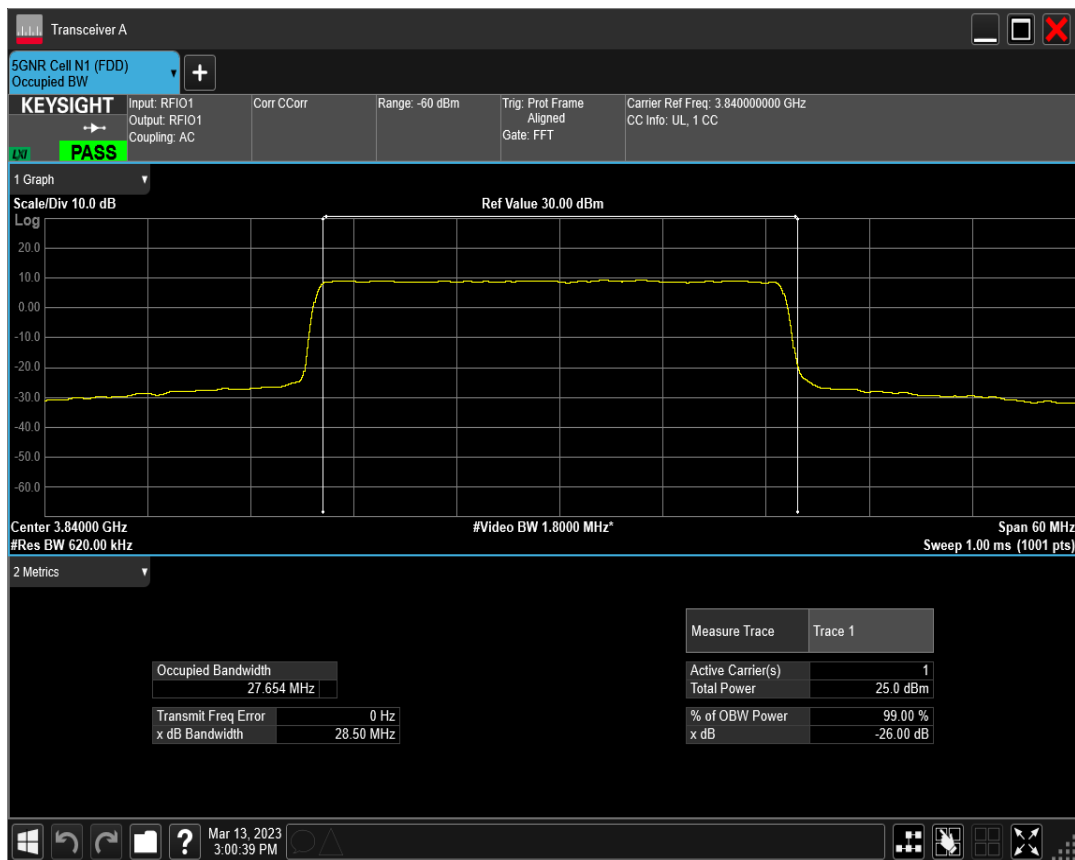
n77(3700-3980) SCS=30kHz DFT\_BPSK BW=30MHz Channel=656000 RB=75@0



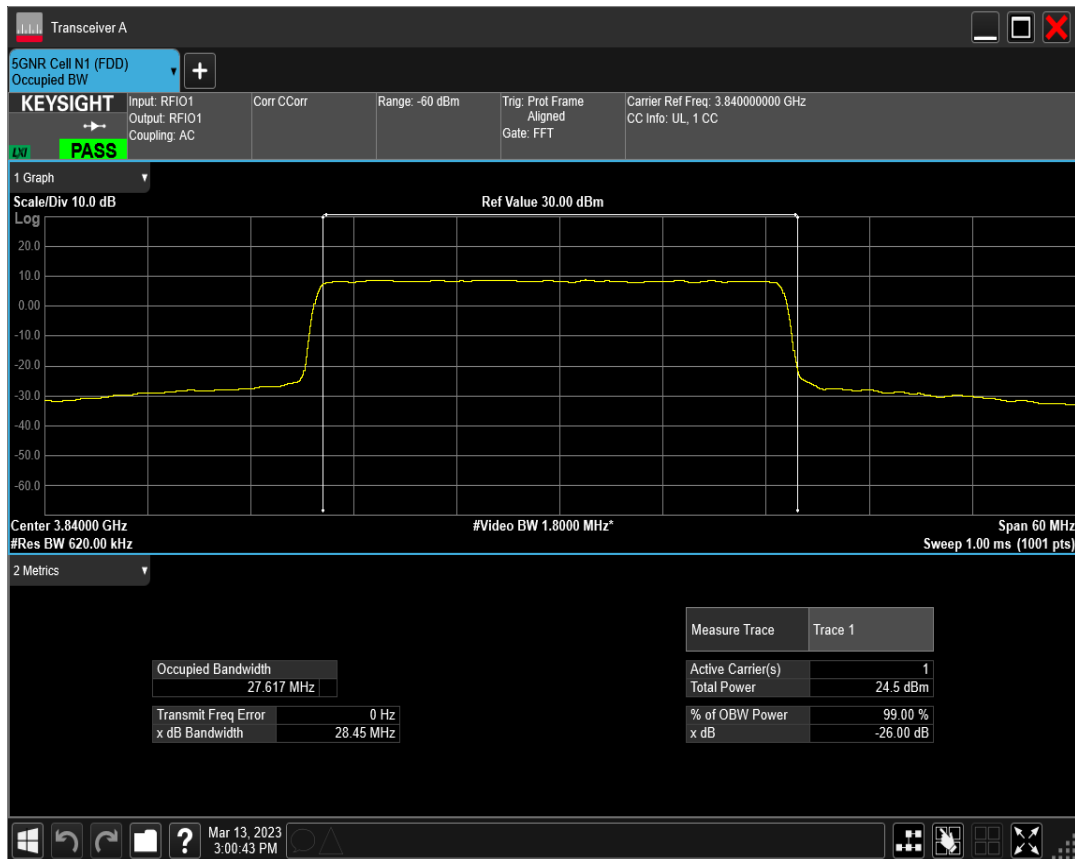
n77(3700-3980) SCS=30kHz DFT\_QPSK BW=30MHz Channel=656000 RB=75@0



n77(3700-3980) SCS=30kHz DFT\_QAM16 BW=30MHz Channel=656000 RB=75@0



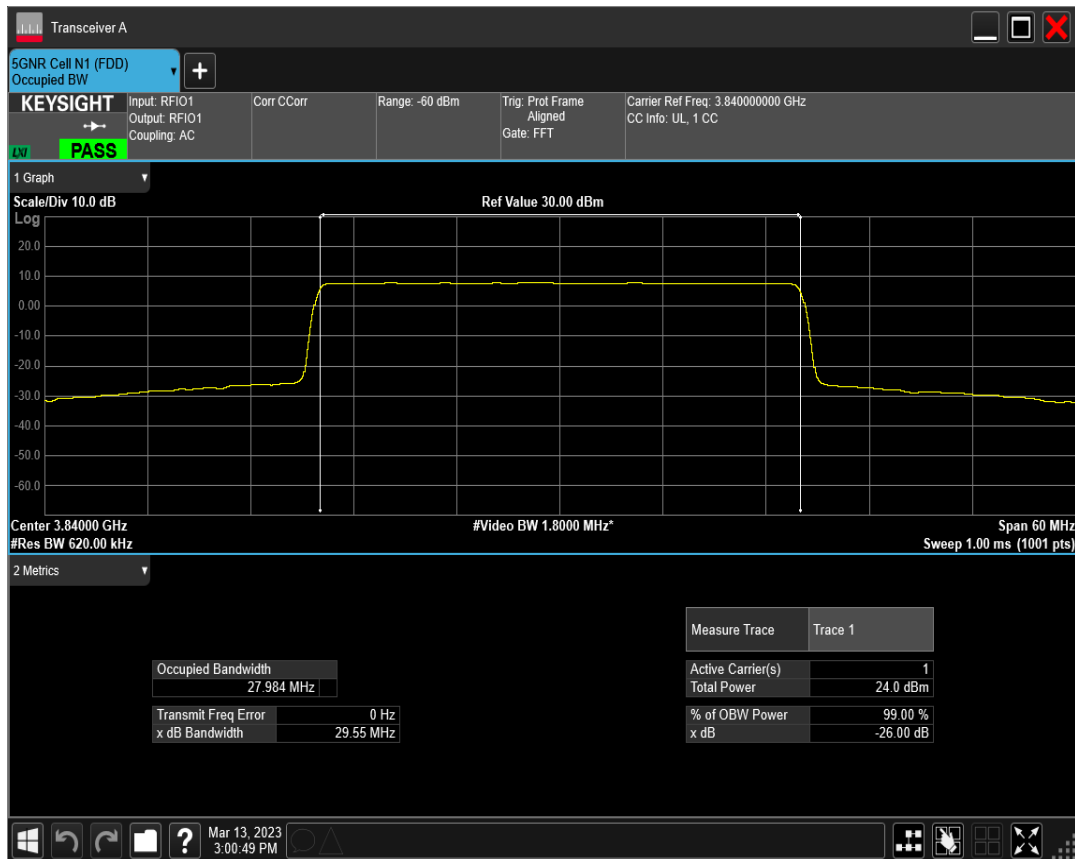
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n77(3700-3980) SCS=30kHz DFT\_QAM256 BW=30MHz Channel=656000 RB=75@0



n77(3700-3980) SCS=30kHz CP\_QPSK BW=30MHz Channel=656000 RB=78@0



n77(3700-3980) SCS=30kHz DFT\_BPSK BW=30MHz Channel=664332 RB=75@0



n77(3700-3980) SCS=30kHz DFT\_QPSK BW=30MHz Channel=664332 RB=75@0