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## 1 Conducted output power for NR FR1

| Band | SCS<br>(kHz) | Bandwidth<br>(MHz) | UL<br>Channel | RB<br>Allocation | Modulation | Conducted<br>Output AV<br>Power<br>(dBm) | Antenna<br>Gain<br>(dBi) | EIRP<br>(dBm) | Limt<br>(dBm) | Verdict |
|------|--------------|--------------------|---------------|------------------|------------|------------------------------------------|--------------------------|---------------|---------------|---------|
| n38  | 30           | 10                 | 515000        | 1@1              | DFT_BPSK   | 23.57                                    | -0.15                    | 23.42         | 33.01         | PASS    |
| n38  | 30           | 10                 | 515000        | 24@0             | DFT_QPSK   | 22.39                                    | -0.15                    | 22.24         | 33.01         | PASS    |
| n38  | 30           | 10                 | 515000        | 12@6             | DFT_QPSK   | 23.41                                    | -0.15                    | 23.26         | 33.01         | PASS    |
| n38  | 30           | 10                 | 515000        | 1@1              | DFT_QPSK   | 23.53                                    | -0.15                    | 23.38         | 33.01         | PASS    |
| n38  | 30           | 10                 | 515000        | 1@22             | DFT_QPSK   | 23.33                                    | -0.15                    | 23.18         | 33.01         | PASS    |
| n38  | 30           | 10                 | 515000        | 1@1              | DFT_QAM16  | 22.3                                     | -0.15                    | 22.15         | 33.01         | PASS    |
| n38  | 30           | 10                 | 515000        | 1@1              | DFT_QAM64  | 20.74                                    | -0.15                    | 20.59         | 33.01         | PASS    |
| n38  | 30           | 10                 | 515000        | 1@1              | DFT_QAM256 | 18.53                                    | -0.15                    | 18.38         | 33.01         | PASS    |
| n38  | 30           | 10                 | 515000        | 1@1              | CP_QPSK    | 22.04                                    | -0.15                    | 21.89         | 33.01         | PASS    |
| n38  | 30           | 10                 | 519000        | 1@1              | DFT_BPSK   | 23.54                                    | -0.15                    | 23.39         | 33.01         | PASS    |
| n38  | 30           | 10                 | 519000        | 24@0             | DFT_QPSK   | 22.42                                    | -0.15                    | 22.27         | 33.01         | PASS    |
| n38  | 30           | 10                 | 519000        | 12@6             | DFT_QPSK   | 23.43                                    | -0.15                    | 23.28         | 33.01         | PASS    |
| n38  | 30           | 10                 | 519000        | 1@1              | DFT_QPSK   | 23.58                                    | -0.15                    | 23.43         | 33.01         | PASS    |
| n38  | 30           | 10                 | 519000        | 1@22             | DFT_QPSK   | 23.59                                    | -0.15                    | 23.44         | 33.01         | PASS    |
| n38  | 30           | 10                 | 519000        | 1@1              | DFT_QAM16  | 22.39                                    | -0.15                    | 22.24         | 33.01         | PASS    |
| n38  | 30           | 10                 | 519000        | 1@1              | DFT_QAM64  | 21.17                                    | -0.15                    | 21.02         | 33.01         | PASS    |
| n38  | 30           | 10                 | 519000        | 1@1              | DFT_QAM256 | 19.02                                    | -0.15                    | 18.87         | 33.01         | PASS    |
| n38  | 30           | 10                 | 519000        | 1@1              | CP_QPSK    | 22.99                                    | -0.15                    | 22.84         | 33.01         | PASS    |
| n38  | 30           | 10                 | 523000        | 1@1              | DFT_BPSK   | 23.09                                    | -0.15                    | 22.94         | 33.01         | PASS    |
| n38  | 30           | 10                 | 523000        | 24@0             | DFT_QPSK   | 22.22                                    | -0.15                    | 22.07         | 33.01         | PASS    |
| n38  | 30           | 10                 | 523000        | 12@6             | DFT_QPSK   | 23.27                                    | -0.15                    | 23.12         | 33.01         | PASS    |
| n38  | 30           | 10                 | 523000        | 1@1              | DFT_QPSK   | 23.23                                    | -0.15                    | 23.08         | 33.01         | PASS    |
| n38  | 30           | 10                 | 523000        | 1@22             | DFT_QPSK   | 23.16                                    | -0.15                    | 23.01         | 33.01         | PASS    |
| n38  | 30           | 10                 | 523000        | 1@1              | DFT_QAM16  | 22.31                                    | -0.15                    | 22.16         | 33.01         | PASS    |
| n38  | 30           | 10                 | 523000        | 1@1              | DFT_QAM64  | 21.25                                    | -0.15                    | 21.10         | 33.01         | PASS    |
| n38  | 30           | 10                 | 523000        | 1@1              | DFT_QAM256 | 18.62                                    | -0.15                    | 18.47         | 33.01         | PASS    |
| n38  | 30           | 10                 | 523000        | 1@1              | CP_QPSK    | 23.58                                    | -0.15                    | 23.43         | 33.01         | PASS    |
| n38  | 30           | 15                 | 515500        | 1@1              | DFT_BPSK   | 23.27                                    | -0.15                    | 23.12         | 33.01         | PASS    |
| n38  | 30           | 15                 | 515500        | 36@0             | DFT_QPSK   | 22.49                                    | -0.15                    | 22.34         | 33.01         | PASS    |
| n38  | 30           | 15                 | 515500        | 18@9             | DFT_QPSK   | 23.35                                    | -0.15                    | 23.20         | 33.01         | PASS    |
| n38  | 30           | 15                 | 515500        | 1@1              | DFT_QPSK   | 23.24                                    | -0.15                    | 23.09         | 33.01         | PASS    |
| n38  | 30           | 15                 | 515500        | 1@36             | DFT_QPSK   | 23.71                                    | -0.15                    | 23.56         | 33.01         | PASS    |
| n38  | 30           | 15                 | 515500        | 1@1              | DFT_QAM16  | 22.85                                    | -0.15                    | 22.70         | 33.01         | PASS    |
| n38  | 30           | 15                 | 515500        | 1@1              | DFT_QAM64  | 21.28                                    | -0.15                    | 21.13         | 33.01         | PASS    |
| n38  | 30           | 15                 | 515500        | 1@1              | DFT_QAM256 | 18.3                                     | -0.15                    | 18.15         | 33.01         | PASS    |
| n38  | 30           | 15                 | 515500        | 1@1              | CP_QPSK    | 21.91                                    | -0.15                    | 21.76         | 33.01         | PASS    |
| n38  | 30           | 15                 | 519000        | 1@1              | DFT_BPSK   | 23.41                                    | -0.15                    | 23.26         | 33.01         | PASS    |

|     |    |    |        |       |            |       |       |       |       |      |
|-----|----|----|--------|-------|------------|-------|-------|-------|-------|------|
| n38 | 30 | 15 | 519000 | 36@0  | DFT_QPSK   | 22.49 | -0.15 | 22.34 | 33.01 | PASS |
| n38 | 30 | 15 | 519000 | 18@9  | DFT_QPSK   | 23.52 | -0.15 | 23.37 | 33.01 | PASS |
| n38 | 30 | 15 | 519000 | 1@1   | DFT_QPSK   | 23.25 | -0.15 | 23.10 | 33.01 | PASS |
| n38 | 30 | 15 | 519000 | 1@36  | DFT_QPSK   | 23.32 | -0.15 | 23.17 | 33.01 | PASS |
| n38 | 30 | 15 | 519000 | 1@1   | DFT_QAM16  | 22.54 | -0.15 | 22.39 | 33.01 | PASS |
| n38 | 30 | 15 | 519000 | 1@1   | DFT_QAM64  | 20.77 | -0.15 | 20.62 | 33.01 | PASS |
| n38 | 30 | 15 | 519000 | 1@1   | DFT_QAM256 | 18.8  | -0.15 | 18.65 | 33.01 | PASS |
| n38 | 30 | 15 | 519000 | 1@1   | CP_QPSK    | 21.96 | -0.15 | 21.81 | 33.01 | PASS |
| n38 | 30 | 15 | 522500 | 1@1   | DFT_BPSK   | 23.4  | -0.15 | 23.25 | 33.01 | PASS |
| n38 | 30 | 15 | 522500 | 36@0  | DFT_QPSK   | 22.36 | -0.15 | 22.21 | 33.01 | PASS |
| n38 | 30 | 15 | 522500 | 18@9  | DFT_QPSK   | 23.28 | -0.15 | 23.13 | 33.01 | PASS |
| n38 | 30 | 15 | 522500 | 1@1   | DFT_QPSK   | 23.35 | -0.15 | 23.20 | 33.01 | PASS |
| n38 | 30 | 15 | 522500 | 1@36  | DFT_QPSK   | 23.17 | -0.15 | 23.02 | 33.01 | PASS |
| n38 | 30 | 15 | 522500 | 1@1   | DFT_QAM16  | 22.38 | -0.15 | 22.23 | 33.01 | PASS |
| n38 | 30 | 15 | 522500 | 1@1   | DFT_QAM64  | 21.14 | -0.15 | 20.99 | 33.01 | PASS |
| n38 | 30 | 15 | 522500 | 1@1   | DFT_QAM256 | 18.71 | -0.15 | 18.56 | 33.01 | PASS |
| n38 | 30 | 15 | 522500 | 1@1   | CP_QPSK    | 22.04 | -0.15 | 21.89 | 33.01 | PASS |
| n38 | 30 | 20 | 516000 | 1@1   | DFT_BPSK   | 23.16 | -0.15 | 23.01 | 33.01 | PASS |
| n38 | 30 | 20 | 516000 | 50@0  | DFT_QPSK   | 22.4  | -0.15 | 22.25 | 33.01 | PASS |
| n38 | 30 | 20 | 516000 | 25@12 | DFT_QPSK   | 23.4  | -0.15 | 23.25 | 33.01 | PASS |
| n38 | 30 | 20 | 516000 | 1@1   | DFT_QPSK   | 24.41 | -0.15 | 24.26 | 33.01 | PASS |
| n38 | 30 | 20 | 516000 | 1@49  | DFT_QPSK   | 23.34 | -0.15 | 23.19 | 33.01 | PASS |
| n38 | 30 | 20 | 516000 | 1@1   | DFT_QAM16  | 22.06 | -0.15 | 21.91 | 33.01 | PASS |
| n38 | 30 | 20 | 516000 | 1@1   | DFT_QAM64  | 21.45 | -0.15 | 21.30 | 33.01 | PASS |
| n38 | 30 | 20 | 516000 | 1@1   | DFT_QAM256 | 18.76 | -0.15 | 18.61 | 33.01 | PASS |
| n38 | 30 | 20 | 516000 | 1@1   | CP_QPSK    | 21.68 | -0.15 | 21.53 | 33.01 | PASS |
| n38 | 30 | 20 | 519000 | 1@1   | DFT_BPSK   | 23.14 | -0.15 | 22.99 | 33.01 | PASS |
| n38 | 30 | 20 | 519000 | 50@0  | DFT_QPSK   | 22.44 | -0.15 | 22.29 | 33.01 | PASS |
| n38 | 30 | 20 | 519000 | 25@12 | DFT_QPSK   | 23.45 | -0.15 | 23.30 | 33.01 | PASS |
| n38 | 30 | 20 | 519000 | 1@1   | DFT_QPSK   | 23.31 | -0.15 | 23.16 | 33.01 | PASS |
| n38 | 30 | 20 | 519000 | 1@49  | DFT_QPSK   | 23.32 | -0.15 | 23.17 | 33.01 | PASS |
| n38 | 30 | 20 | 519000 | 1@1   | DFT_QAM16  | 22.44 | -0.15 | 22.29 | 33.01 | PASS |
| n38 | 30 | 20 | 519000 | 1@1   | DFT_QAM64  | 20.63 | -0.15 | 20.48 | 33.01 | PASS |
| n38 | 30 | 20 | 519000 | 1@1   | DFT_QAM256 | 18.82 | -0.15 | 18.67 | 33.01 | PASS |
| n38 | 30 | 20 | 519000 | 1@1   | CP_QPSK    | 21.98 | -0.15 | 21.83 | 33.01 | PASS |
| n38 | 30 | 20 | 522000 | 1@1   | DFT_BPSK   | 23.32 | -0.15 | 23.17 | 33.01 | PASS |
| n38 | 30 | 20 | 522000 | 50@0  | DFT_QPSK   | 22.32 | -0.15 | 22.17 | 33.01 | PASS |
| n38 | 30 | 20 | 522000 | 25@12 | DFT_QPSK   | 23.31 | -0.15 | 23.16 | 33.01 | PASS |
| n38 | 30 | 20 | 522000 | 1@1   | DFT_QPSK   | 23.27 | -0.15 | 23.12 | 33.01 | PASS |
| n38 | 30 | 20 | 522000 | 1@49  | DFT_QPSK   | 23.08 | -0.15 | 22.93 | 33.01 | PASS |
| n38 | 30 | 20 | 522000 | 1@1   | DFT_QAM16  | 22.34 | -0.15 | 22.19 | 33.01 | PASS |
| n38 | 30 | 20 | 522000 | 1@1   | DFT_QAM64  | 20.66 | -0.15 | 20.51 | 33.01 | PASS |
| n38 | 30 | 20 | 522000 | 1@1   | DFT_QAM256 | 18.8  | -0.15 | 18.65 | 33.01 | PASS |
| n38 | 30 | 20 | 522000 | 1@1   | CP_QPSK    | 21.63 | -0.15 | 21.48 | 33.01 | PASS |

## 2 Frequency stability for NR FR1

| Band | SCS<br>(kHz) | Bandwidth<br>(MHz) | UL<br>Channel | RB<br>Allocation | Modulation | Result(Hz) | Result<br>(ppm) | Low<br>Limit<br>(ppm) | high<br>Limit<br>(ppm) | Verdict |
|------|--------------|--------------------|---------------|------------------|------------|------------|-----------------|-----------------------|------------------------|---------|
| n38  | 30           | 10                 | 515000        | 12@6             | DFT_BPSK   | -2.44      | -0.00095        | -2.5                  | 2.5                    | PASS    |
| n38  | 30           | 10                 | 515000        | 1@1              | DFT_BPSK   | -3.40      | -0.00132        | -2.5                  | 2.5                    | PASS    |
| n38  | 30           | 10                 | 515000        | 1@22             | DFT_BPSK   | -2.94      | -0.00114        | -2.5                  | 2.5                    | PASS    |
| n38  | 30           | 10                 | 515000        | 12@6             | DFT_QPSK   | -3.23      | -0.00125        | -2.5                  | 2.5                    | PASS    |
| n38  | 30           | 10                 | 515000        | 1@1              | DFT_QPSK   | -1.50      | -0.00058        | -2.5                  | 2.5                    | PASS    |
| n38  | 30           | 10                 | 515000        | 1@22             | DFT_QPSK   | -3.02      | -0.00117        | -2.5                  | 2.5                    | PASS    |
| n38  | 30           | 10                 | 519000        | 12@6             | DFT_BPSK   | -3.22      | -0.00124        | -2.5                  | 2.5                    | PASS    |
| n38  | 30           | 10                 | 519000        | 1@1              | DFT_BPSK   | -3.33      | -0.00128        | -2.5                  | 2.5                    | PASS    |
| n38  | 30           | 10                 | 519000        | 1@22             | DFT_BPSK   | -3.96      | -0.00153        | -2.5                  | 2.5                    | PASS    |
| n38  | 30           | 10                 | 519000        | 12@6             | DFT_QPSK   | -2.74      | -0.00106        | -2.5                  | 2.5                    | PASS    |
| n38  | 30           | 10                 | 519000        | 1@1              | DFT_QPSK   | -4.32      | -0.00166        | -2.5                  | 2.5                    | PASS    |
| n38  | 30           | 10                 | 519000        | 1@22             | DFT_QPSK   | -4.41      | -0.00170        | -2.5                  | 2.5                    | PASS    |
| n38  | 30           | 10                 | 523000        | 12@6             | DFT_BPSK   | -1.57      | -0.00060        | -2.5                  | 2.5                    | PASS    |
| n38  | 30           | 10                 | 523000        | 1@1              | DFT_BPSK   | -1.19      | -0.00046        | -2.5                  | 2.5                    | PASS    |
| n38  | 30           | 10                 | 523000        | 1@22             | DFT_BPSK   | -2.40      | -0.00092        | -2.5                  | 2.5                    | PASS    |
| n38  | 30           | 10                 | 523000        | 12@6             | DFT_QPSK   | -0.02      | -0.00001        | -2.5                  | 2.5                    | PASS    |
| n38  | 30           | 10                 | 523000        | 1@1              | DFT_QPSK   | -0.98      | -0.00037        | -2.5                  | 2.5                    | PASS    |
| n38  | 30           | 10                 | 523000        | 1@22             | DFT_QPSK   | -3.00      | -0.00115        | -2.5                  | 2.5                    | PASS    |
| n38  | 30           | 15                 | 515500        | 18@9             | DFT_BPSK   | -1.53      | -0.00059        | -2.5                  | 2.5                    | PASS    |
| n38  | 30           | 15                 | 515500        | 1@1              | DFT_BPSK   | -4.42      | -0.00171        | -2.5                  | 2.5                    | PASS    |
| n38  | 30           | 15                 | 515500        | 1@36             | DFT_BPSK   | -1.85      | -0.00072        | -2.5                  | 2.5                    | PASS    |
| n38  | 30           | 15                 | 515500        | 18@9             | DFT_QPSK   | -3.67      | -0.00142        | -2.5                  | 2.5                    | PASS    |
| n38  | 30           | 15                 | 515500        | 1@1              | DFT_QPSK   | -2.24      | -0.00087        | -2.5                  | 2.5                    | PASS    |
| n38  | 30           | 15                 | 515500        | 1@36             | DFT_QPSK   | -0.75      | -0.00029        | -2.5                  | 2.5                    | PASS    |
| n38  | 30           | 15                 | 519000        | 18@9             | DFT_BPSK   | -0.46      | -0.00018        | -2.5                  | 2.5                    | PASS    |
| n38  | 30           | 15                 | 519000        | 1@1              | DFT_BPSK   | -1.37      | -0.00053        | -2.5                  | 2.5                    | PASS    |
| n38  | 30           | 15                 | 519000        | 1@36             | DFT_BPSK   | -0.07      | -0.00003        | -2.5                  | 2.5                    | PASS    |
| n38  | 30           | 15                 | 519000        | 18@9             | DFT_QPSK   | 0.86       | 0.00033         | -2.5                  | 2.5                    | PASS    |
| n38  | 30           | 15                 | 519000        | 1@1              | DFT_QPSK   | 0.13       | 0.00005         | -2.5                  | 2.5                    | PASS    |
| n38  | 30           | 15                 | 519000        | 1@36             | DFT_QPSK   | -0.71      | -0.00027        | -2.5                  | 2.5                    | PASS    |
| n38  | 30           | 15                 | 522500        | 18@9             | DFT_BPSK   | -1.38      | -0.00053        | -2.5                  | 2.5                    | PASS    |
| n38  | 30           | 15                 | 522500        | 1@1              | DFT_BPSK   | -0.95      | -0.00036        | -2.5                  | 2.5                    | PASS    |
| n38  | 30           | 15                 | 522500        | 1@36             | DFT_BPSK   | 0.99       | 0.00038         | -2.5                  | 2.5                    | PASS    |
| n38  | 30           | 15                 | 522500        | 18@9             | DFT_QPSK   | -1.14      | -0.00044        | -2.5                  | 2.5                    | PASS    |
| n38  | 30           | 15                 | 522500        | 1@1              | DFT_QPSK   | -1.19      | -0.00046        | -2.5                  | 2.5                    | PASS    |
| n38  | 30           | 15                 | 522500        | 1@36             | DFT_QPSK   | -3.10      | -0.00119        | -2.5                  | 2.5                    | PASS    |
| n38  | 30           | 20                 | 516000        | 25@12            | DFT_BPSK   | -4.45      | -0.00172        | -2.5                  | 2.5                    | PASS    |
| n38  | 30           | 20                 | 516000        | 1@1              | DFT_BPSK   | -3.17      | -0.00123        | -2.5                  | 2.5                    | PASS    |

|     |    |    |        |       |          |       |          |      |     |      |
|-----|----|----|--------|-------|----------|-------|----------|------|-----|------|
| n38 | 30 | 20 | 516000 | 1@49  | DFT_BPSK | -3.82 | -0.00148 | -2.5 | 2.5 | PASS |
| n38 | 30 | 20 | 516000 | 25@12 | DFT_QPSK | -3.47 | -0.00134 | -2.5 | 2.5 | PASS |
| n38 | 30 | 20 | 516000 | 1@1   | DFT_QPSK | -4.30 | -0.00167 | -2.5 | 2.5 | PASS |
| n38 | 30 | 20 | 516000 | 1@49  | DFT_QPSK | -4.06 | -0.00157 | -2.5 | 2.5 | PASS |
| n38 | 30 | 20 | 519000 | 25@12 | DFT_BPSK | 1.72  | 0.00066  | -2.5 | 2.5 | PASS |
| n38 | 30 | 20 | 519000 | 1@1   | DFT_BPSK | 2.53  | 0.00097  | -2.5 | 2.5 | PASS |
| n38 | 30 | 20 | 519000 | 1@49  | DFT_BPSK | 1.44  | 0.00055  | -2.5 | 2.5 | PASS |
| n38 | 30 | 20 | 519000 | 25@12 | DFT_QPSK | 1.38  | 0.00053  | -2.5 | 2.5 | PASS |
| n38 | 30 | 20 | 519000 | 1@1   | DFT_QPSK | 3.16  | 0.00122  | -2.5 | 2.5 | PASS |
| n38 | 30 | 20 | 519000 | 1@49  | DFT_QPSK | 0.79  | 0.00030  | -2.5 | 2.5 | PASS |
| n38 | 30 | 20 | 522000 | 25@12 | DFT_BPSK | 2.38  | 0.00091  | -2.5 | 2.5 | PASS |
| n38 | 30 | 20 | 522000 | 1@1   | DFT_BPSK | 0.59  | 0.00023  | -2.5 | 2.5 | PASS |
| n38 | 30 | 20 | 522000 | 1@49  | DFT_BPSK | 1.38  | 0.00053  | -2.5 | 2.5 | PASS |
| n38 | 30 | 20 | 522000 | 25@12 | DFT_QPSK | -0.87 | -0.00033 | -2.5 | 2.5 | PASS |
| n38 | 30 | 20 | 522000 | 1@1   | DFT_QPSK | -1.37 | -0.00052 | -2.5 | 2.5 | PASS |
| n38 | 30 | 20 | 522000 | 1@49  | DFT_QPSK | -1.41 | -0.00054 | -2.5 | 2.5 | PASS |

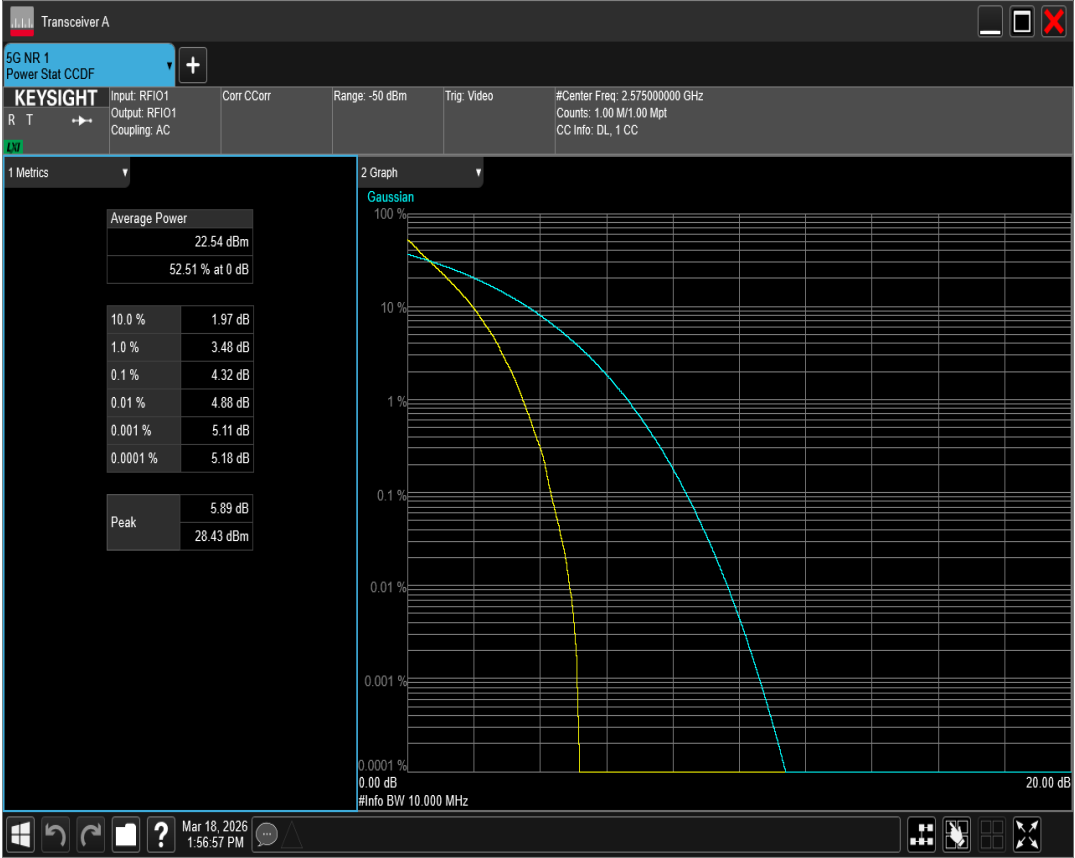
Note: (Voltage: 3.92V, Temperature: 25°C) only reflect the worst mode.

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

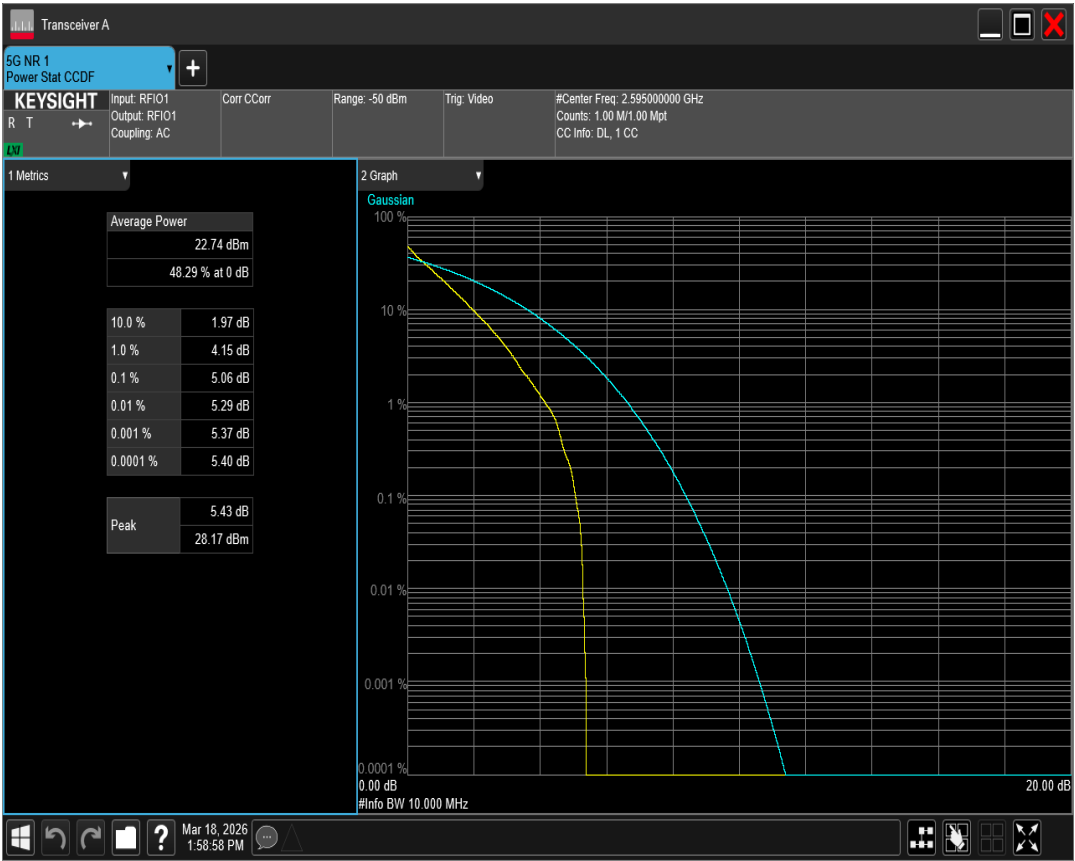
| <i>Band</i> | <i>SCS<br/>(kHz)</i> | <i>Bandwidth<br/>(MHz)</i> | <i>UL<br/>Channel</i> | <i>RB<br/>Allocation</i> | <i>Modulation</i> | <i>Result<br/>(dB)</i> | <i>high<br/>Limit<br/>(dB)</i> | <i>Verdict</i> |
|-------------|----------------------|----------------------------|-----------------------|--------------------------|-------------------|------------------------|--------------------------------|----------------|
| n38         | 30                   | 10                         | 515000                | 24@0                     | DFT_BPSK          | 4.32                   | 13                             | PASS           |
| n38         | 30                   | 10                         | 515000                | 24@0                     | DFT_QPSK          | 5.42                   | 13                             | PASS           |
| n38         | 30                   | 10                         | 515000                | 24@0                     | DFT_QAM16         | 6.27                   | 13                             | PASS           |
| n38         | 30                   | 10                         | 515000                | 24@0                     | DFT_QAM64         | 6.52                   | 13                             | PASS           |
| n38         | 30                   | 10                         | 515000                | 24@0                     | DFT_QAM256        | 6.87                   | 13                             | PASS           |
| n38         | 30                   | 10                         | 519000                | 24@0                     | DFT_BPSK          | 5.06                   | 13                             | PASS           |
| n38         | 30                   | 10                         | 519000                | 24@0                     | DFT_QPSK          | 5.73                   | 13                             | PASS           |
| n38         | 30                   | 10                         | 519000                | 24@0                     | DFT_QAM16         | 6.31                   | 13                             | PASS           |
| n38         | 30                   | 10                         | 519000                | 24@0                     | DFT_QAM64         | 6.48                   | 13                             | PASS           |
| n38         | 30                   | 10                         | 519000                | 24@0                     | DFT_QAM256        | 6.79                   | 13                             | PASS           |
| n38         | 30                   | 10                         | 523000                | 24@0                     | DFT_BPSK          | 4.27                   | 13                             | PASS           |
| n38         | 30                   | 10                         | 523000                | 24@0                     | DFT_QPSK          | 5.80                   | 13                             | PASS           |
| n38         | 30                   | 10                         | 523000                | 24@0                     | DFT_QAM16         | 6.55                   | 13                             | PASS           |
| n38         | 30                   | 10                         | 523000                | 24@0                     | DFT_QAM64         | 6.52                   | 13                             | PASS           |
| n38         | 30                   | 10                         | 523000                | 24@0                     | DFT_QAM256        | 6.86                   | 13                             | PASS           |
| n38         | 30                   | 15                         | 515500                | 36@0                     | DFT_BPSK          | 4.48                   | 13                             | PASS           |
| n38         | 30                   | 15                         | 515500                | 36@0                     | DFT_QPSK          | 5.69                   | 13                             | PASS           |
| n38         | 30                   | 15                         | 515500                | 36@0                     | DFT_QAM16         | 6.32                   | 13                             | PASS           |
| n38         | 30                   | 15                         | 515500                | 36@0                     | DFT_QAM64         | 6.59                   | 13                             | PASS           |
| n38         | 30                   | 15                         | 515500                | 36@0                     | DFT_QAM256        | 6.81                   | 13                             | PASS           |
| n38         | 30                   | 15                         | 519000                | 36@0                     | DFT_BPSK          | 4.30                   | 13                             | PASS           |
| n38         | 30                   | 15                         | 519000                | 36@0                     | DFT_QPSK          | 5.56                   | 13                             | PASS           |
| n38         | 30                   | 15                         | 519000                | 36@0                     | DFT_QAM16         | 6.47                   | 13                             | PASS           |
| n38         | 30                   | 15                         | 519000                | 36@0                     | DFT_QAM64         | 6.65                   | 13                             | PASS           |
| n38         | 30                   | 15                         | 519000                | 36@0                     | DFT_QAM256        | 6.90                   | 13                             | PASS           |
| n38         | 30                   | 15                         | 522500                | 36@0                     | DFT_BPSK          | 4.48                   | 13                             | PASS           |
| n38         | 30                   | 15                         | 522500                | 36@0                     | DFT_QPSK          | 5.74                   | 13                             | PASS           |
| n38         | 30                   | 15                         | 522500                | 36@0                     | DFT_QAM16         | 6.33                   | 13                             | PASS           |
| n38         | 30                   | 15                         | 522500                | 36@0                     | DFT_QAM64         | 6.71                   | 13                             | PASS           |
| n38         | 30                   | 15                         | 522500                | 36@0                     | DFT_QAM256        | 6.76                   | 13                             | PASS           |
| n38         | 30                   | 20                         | 516000                | 50@0                     | DFT_BPSK          | 4.42                   | 13                             | PASS           |
| n38         | 30                   | 20                         | 516000                | 50@0                     | DFT_QPSK          | 5.84                   | 13                             | PASS           |
| n38         | 30                   | 20                         | 516000                | 50@0                     | DFT_QAM16         | 6.72                   | 13                             | PASS           |
| n38         | 30                   | 20                         | 516000                | 50@0                     | DFT_QAM64         | 6.79                   | 13                             | PASS           |
| n38         | 30                   | 20                         | 516000                | 50@0                     | DFT_QAM256        | 6.79                   | 13                             | PASS           |
| n38         | 30                   | 20                         | 519000                | 50@0                     | DFT_BPSK          | 5.27                   | 13                             | PASS           |
| n38         | 30                   | 20                         | 519000                | 50@0                     | DFT_QPSK          | 5.84                   | 13                             | PASS           |
| n38         | 30                   | 20                         | 519000                | 50@0                     | DFT_QAM16         | 6.23                   | 13                             | PASS           |
| n38         | 30                   | 20                         | 519000                | 50@0                     | DFT_QAM64         | 6.81                   | 13                             | PASS           |

|     |    |    |        |      |            |      |    |      |
|-----|----|----|--------|------|------------|------|----|------|
| n38 | 30 | 20 | 519000 | 50@0 | DFT_QAM256 | 6.81 | 13 | PASS |
| n38 | 30 | 20 | 522000 | 50@0 | DFT_BPSK   | 4.88 | 13 | PASS |
| n38 | 30 | 20 | 522000 | 50@0 | DFT_QPSK   | 5.61 | 13 | PASS |
| n38 | 30 | 20 | 522000 | 50@0 | DFT_QAM16  | 6.46 | 13 | PASS |
| n38 | 30 | 20 | 522000 | 50@0 | DFT_QAM64  | 6.86 | 13 | PASS |
| n38 | 30 | 20 | 522000 | 50@0 | DFT_QAM256 | 6.96 | 13 | PASS |

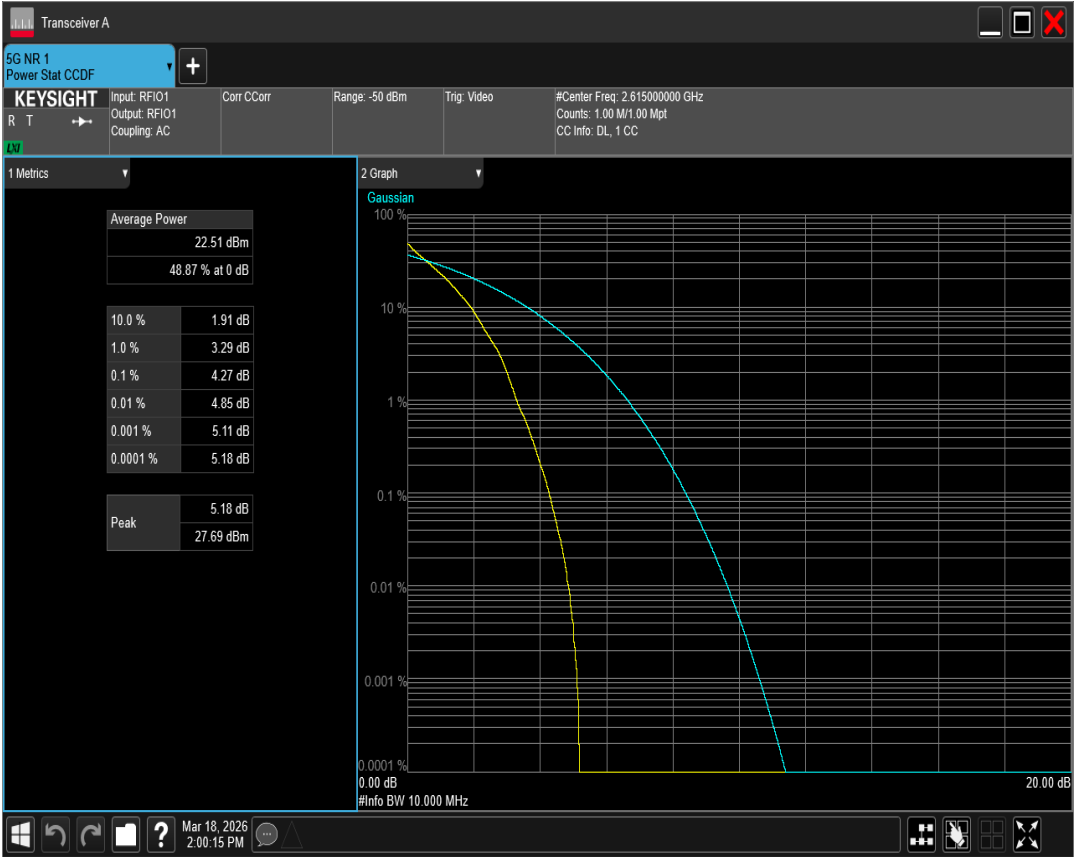
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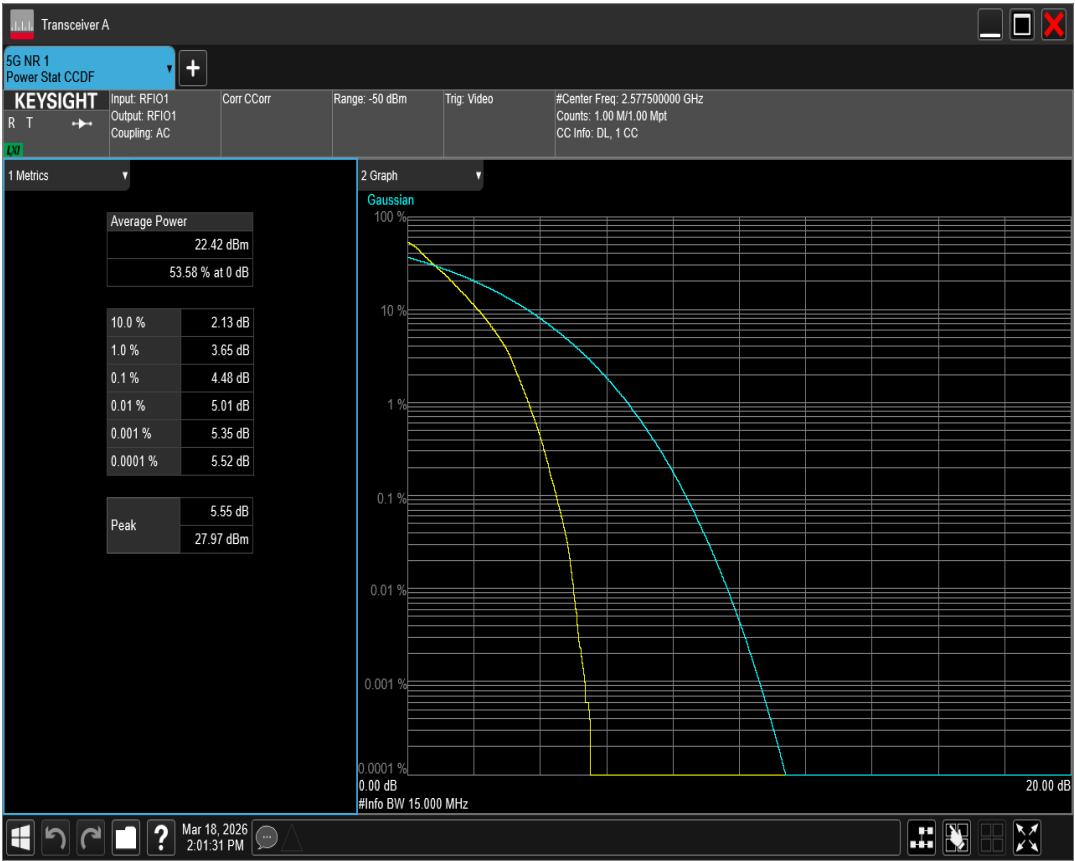
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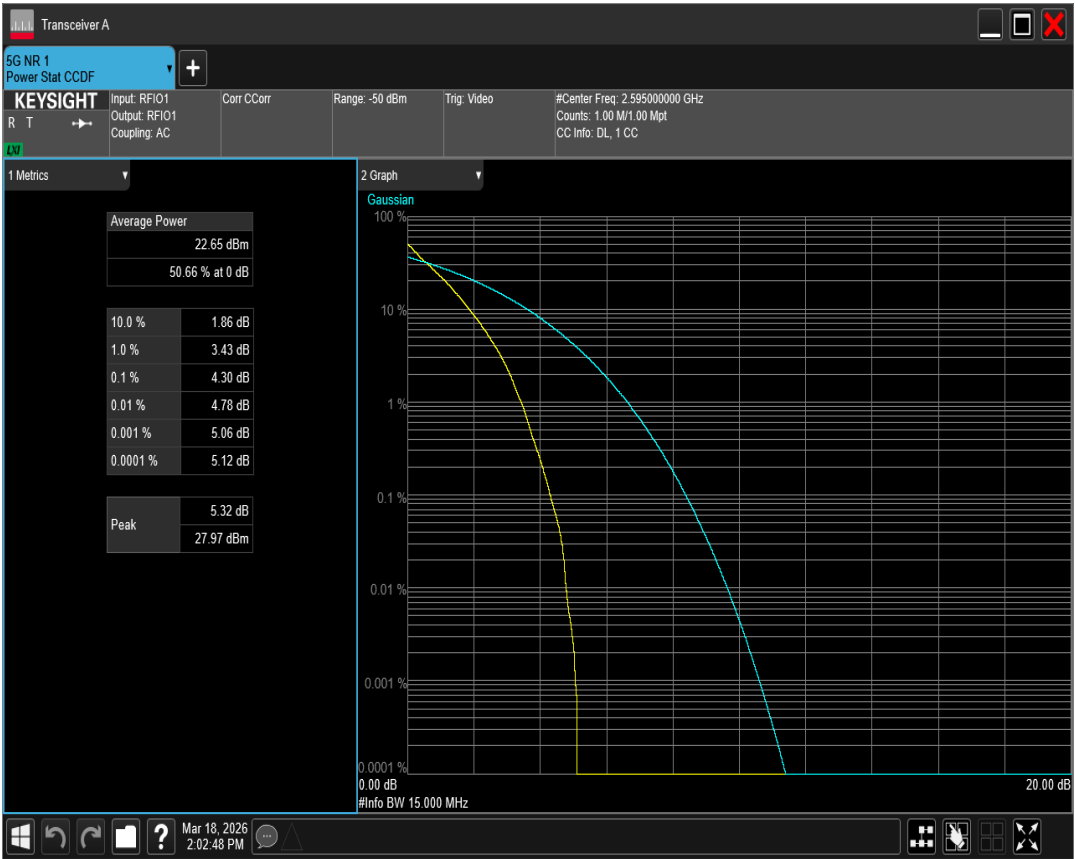
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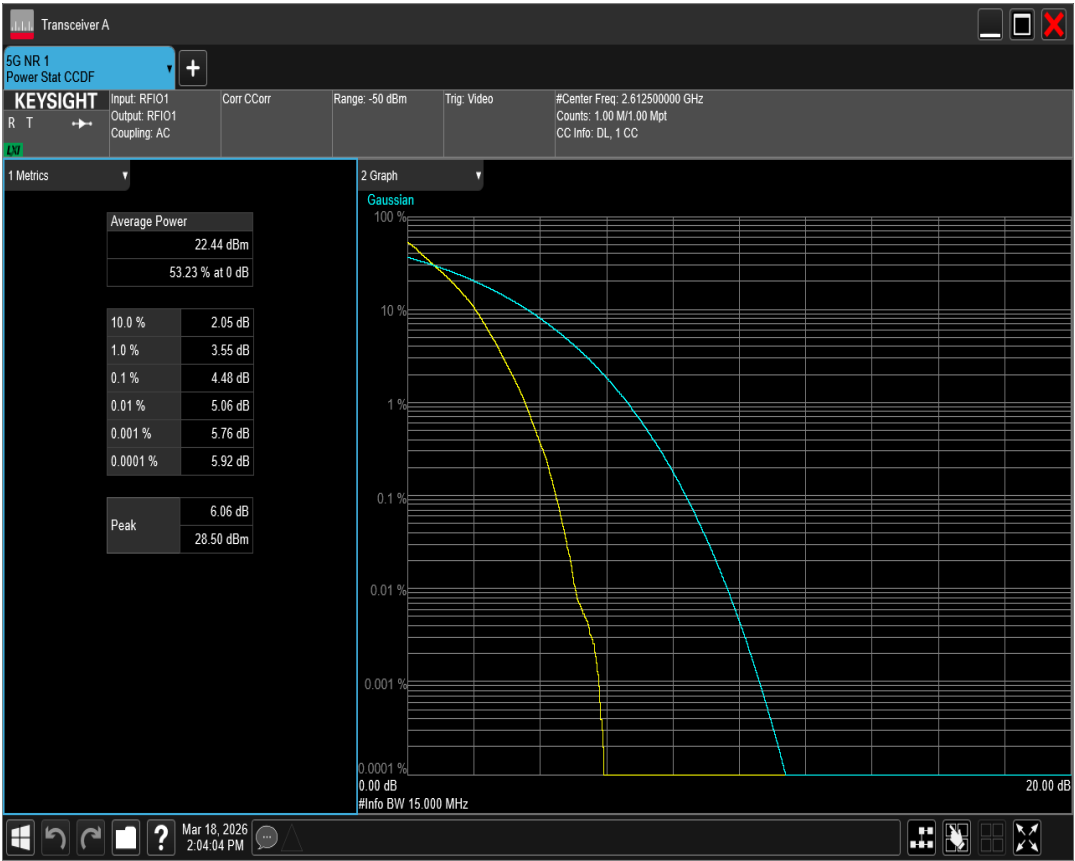
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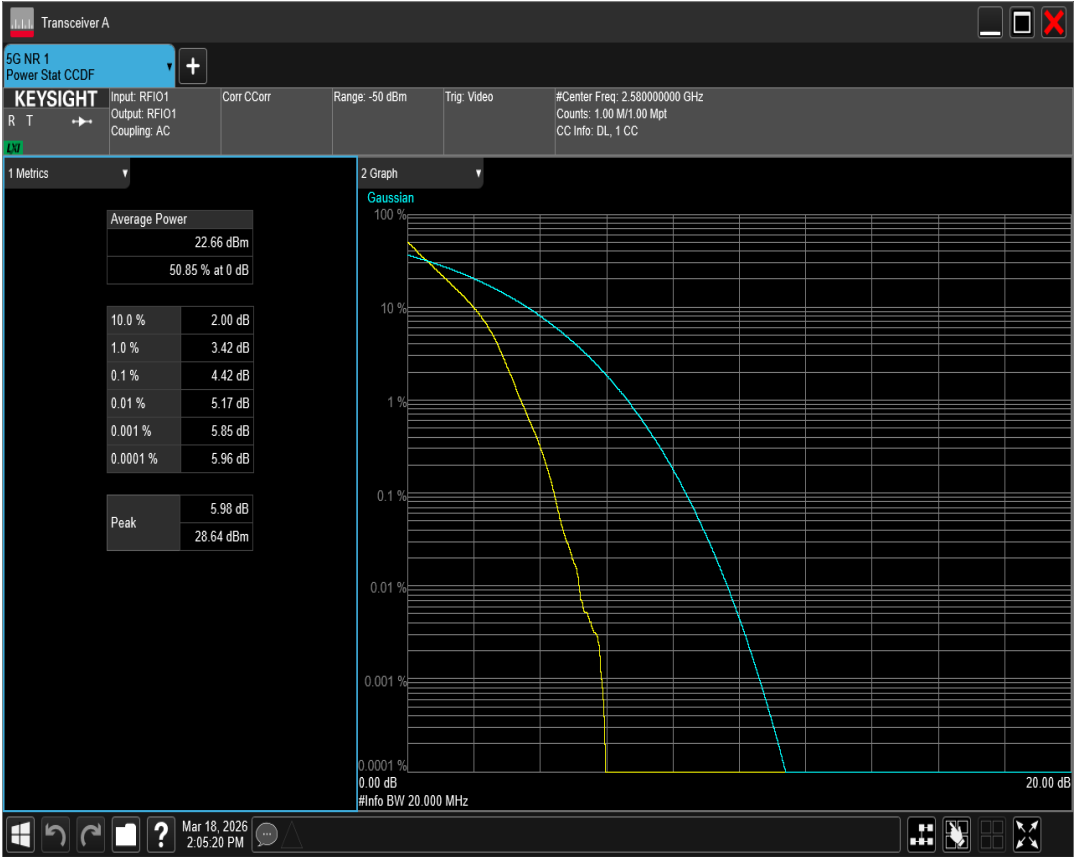
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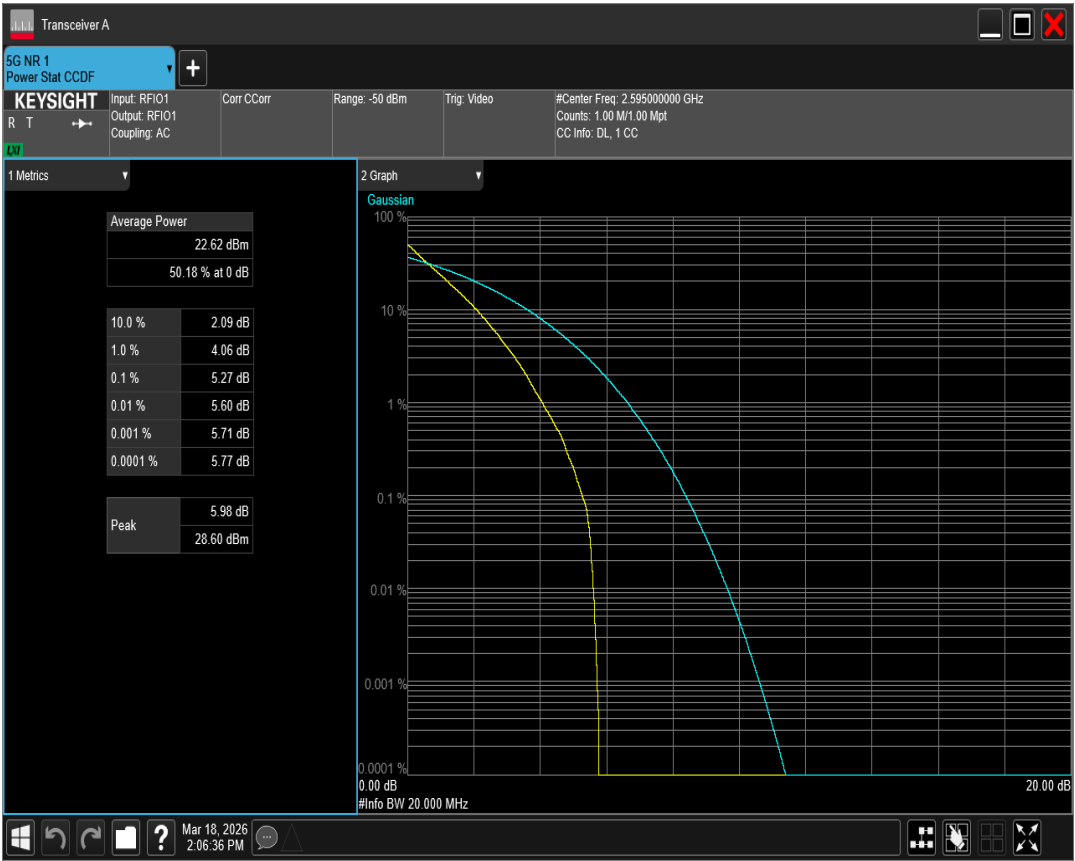
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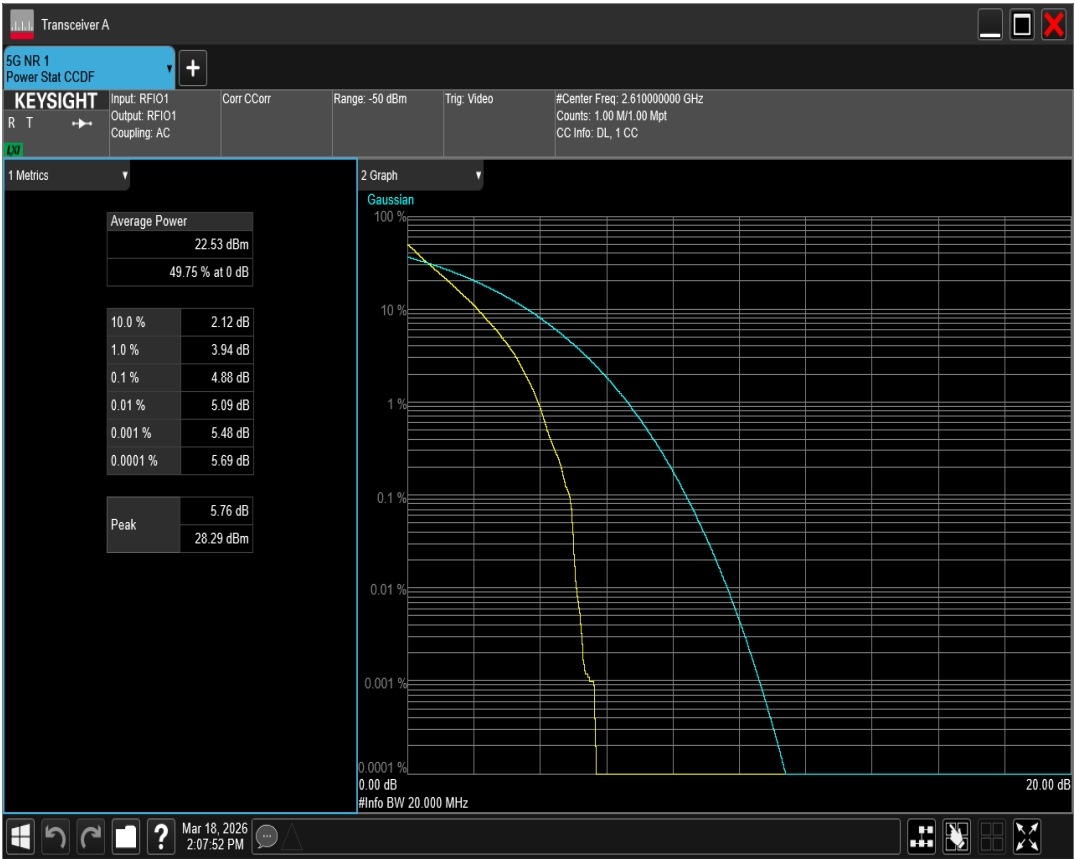
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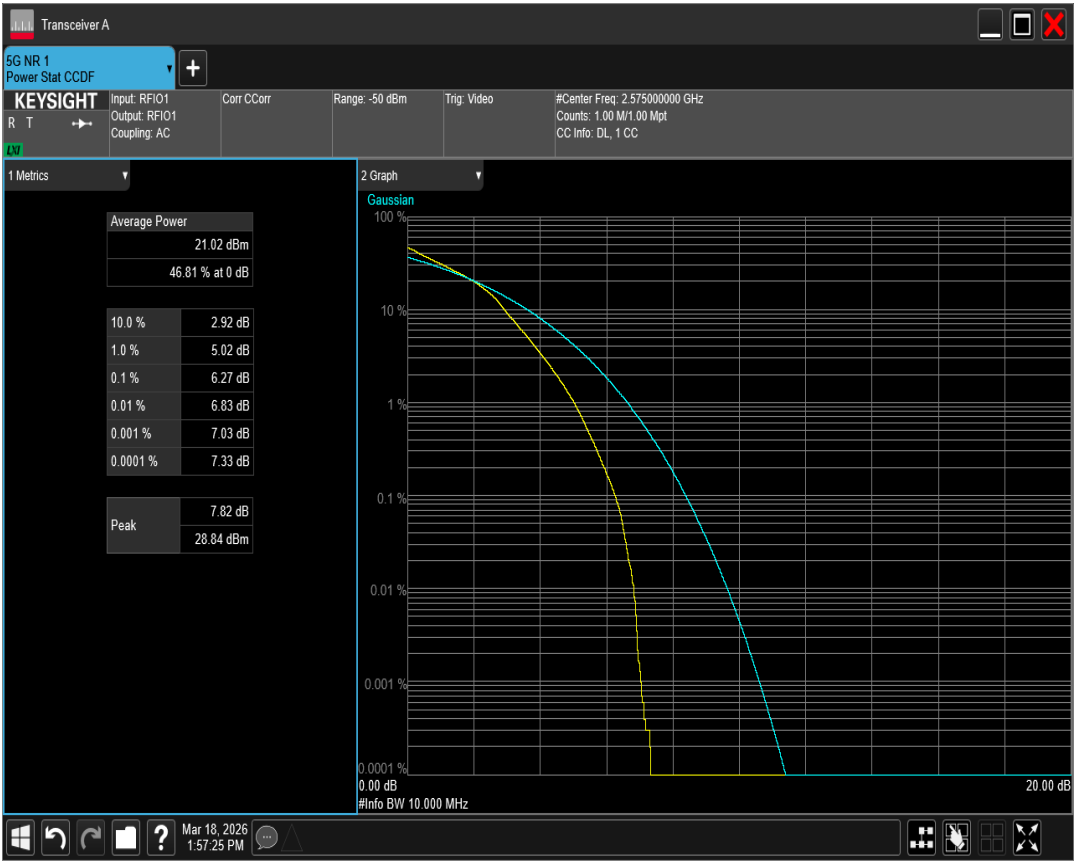
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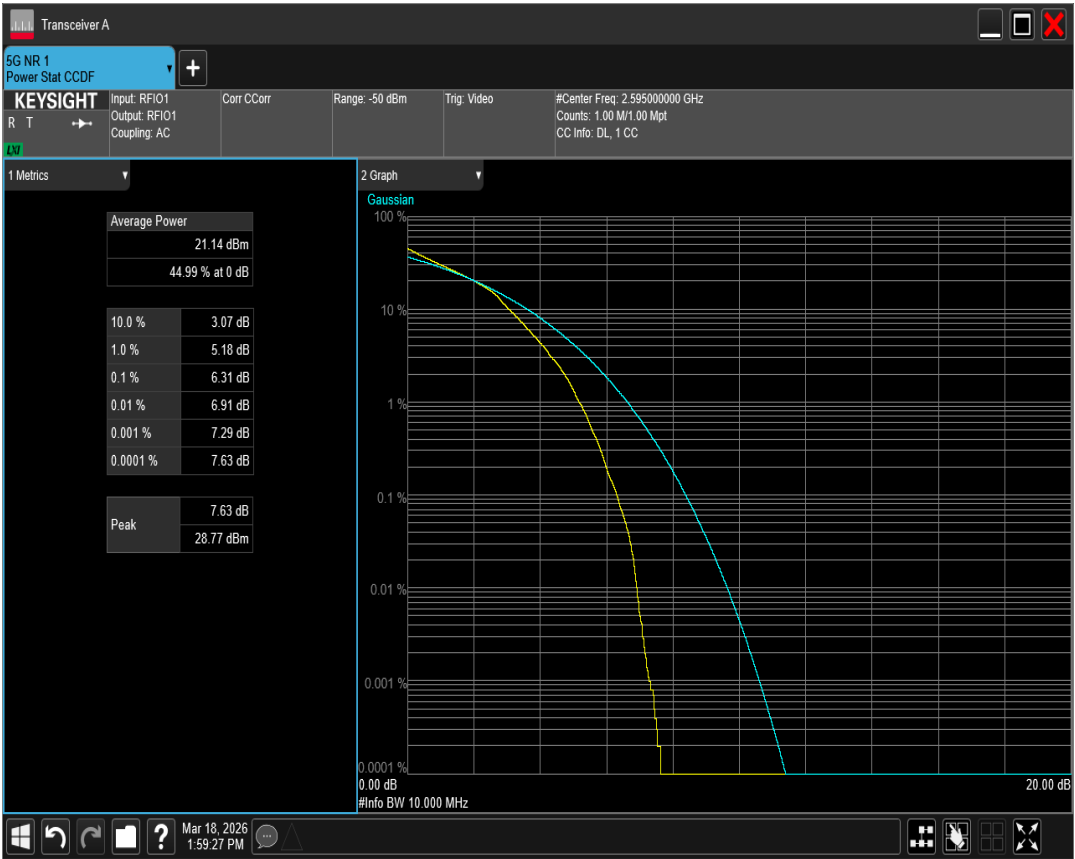
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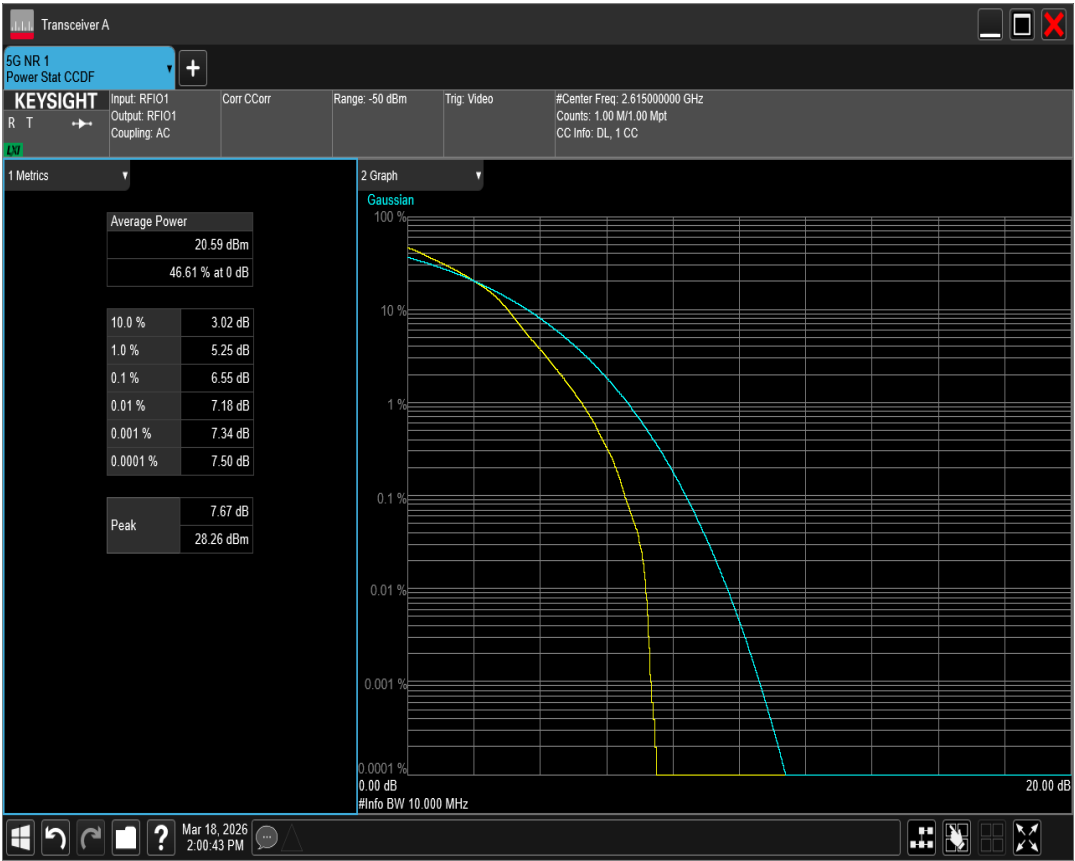
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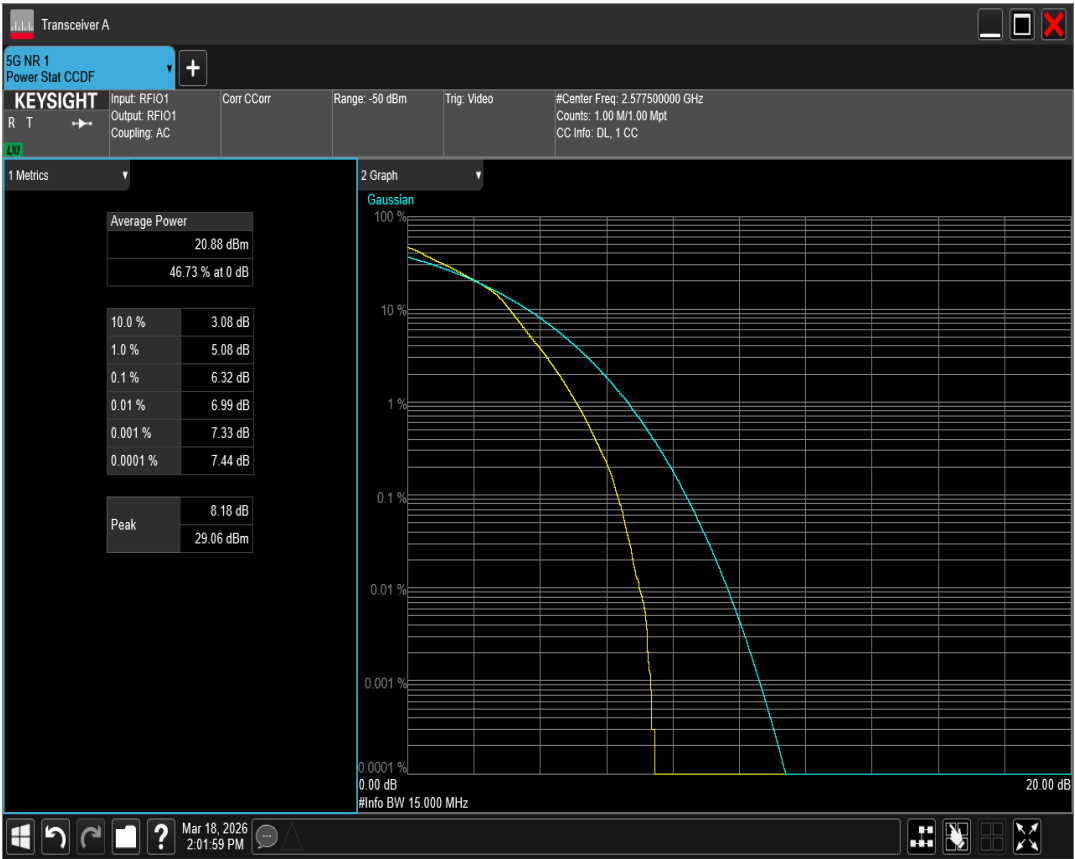
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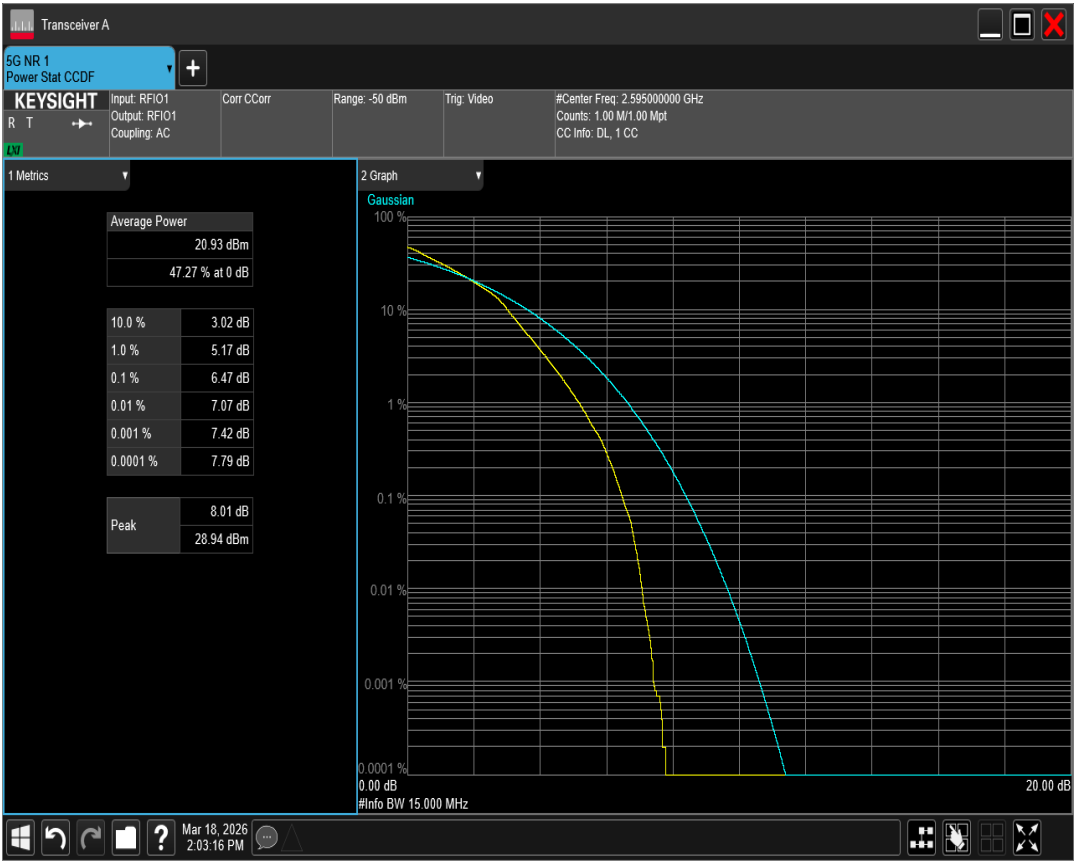
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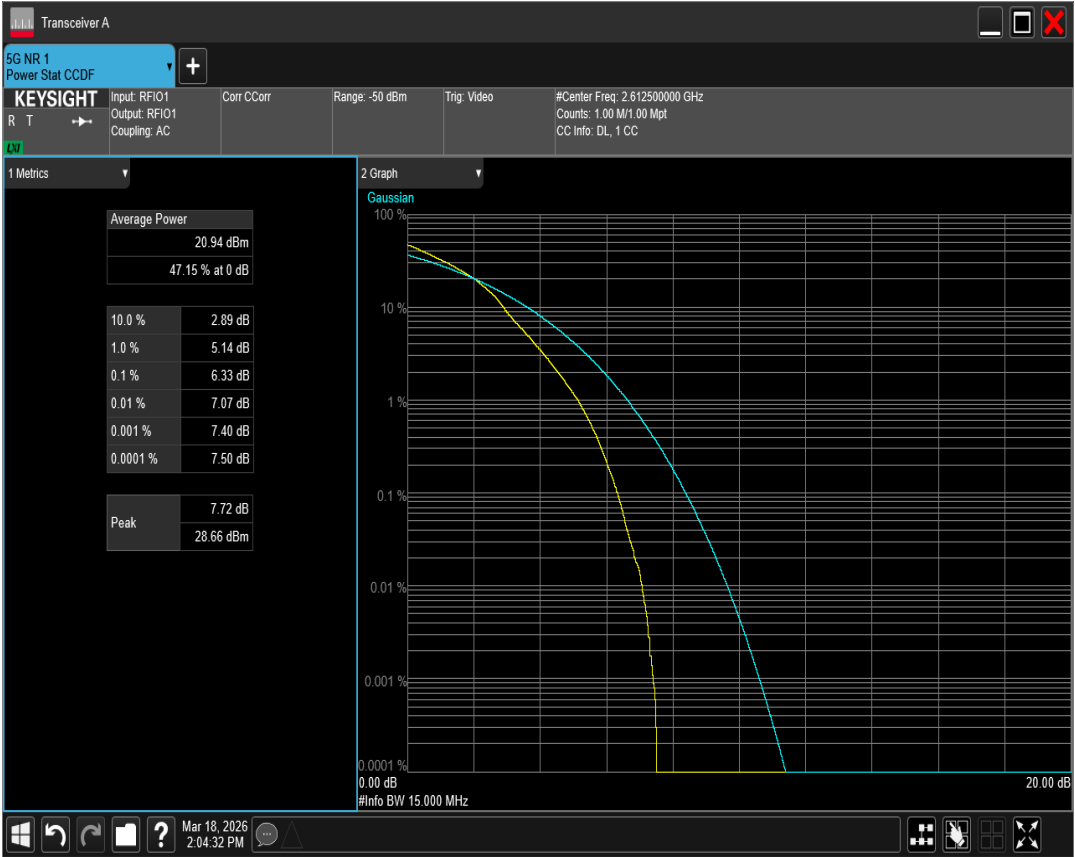
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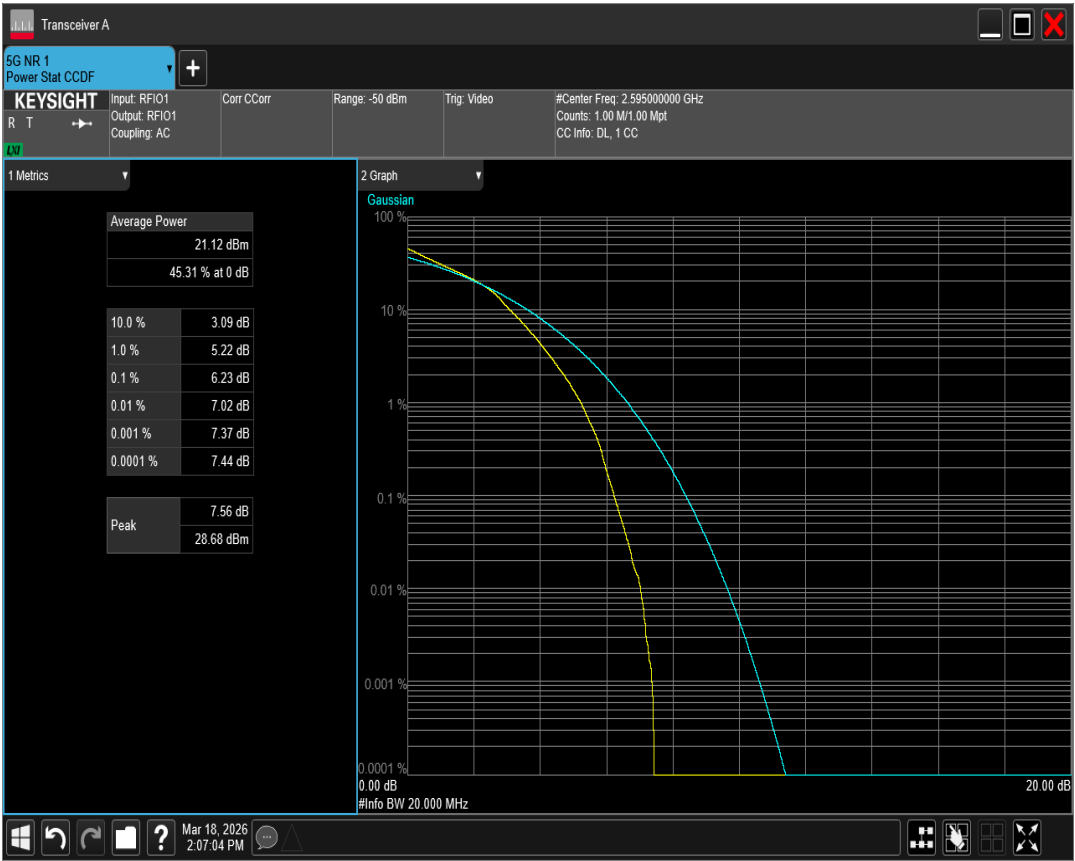
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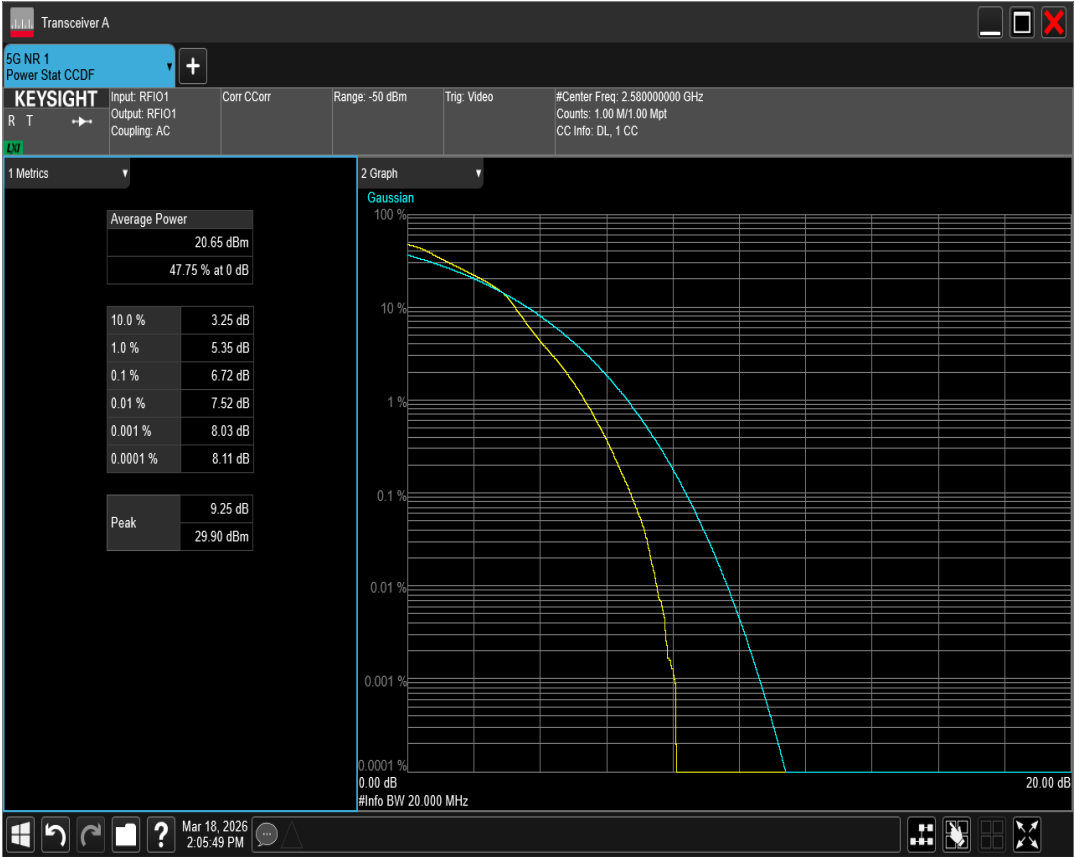
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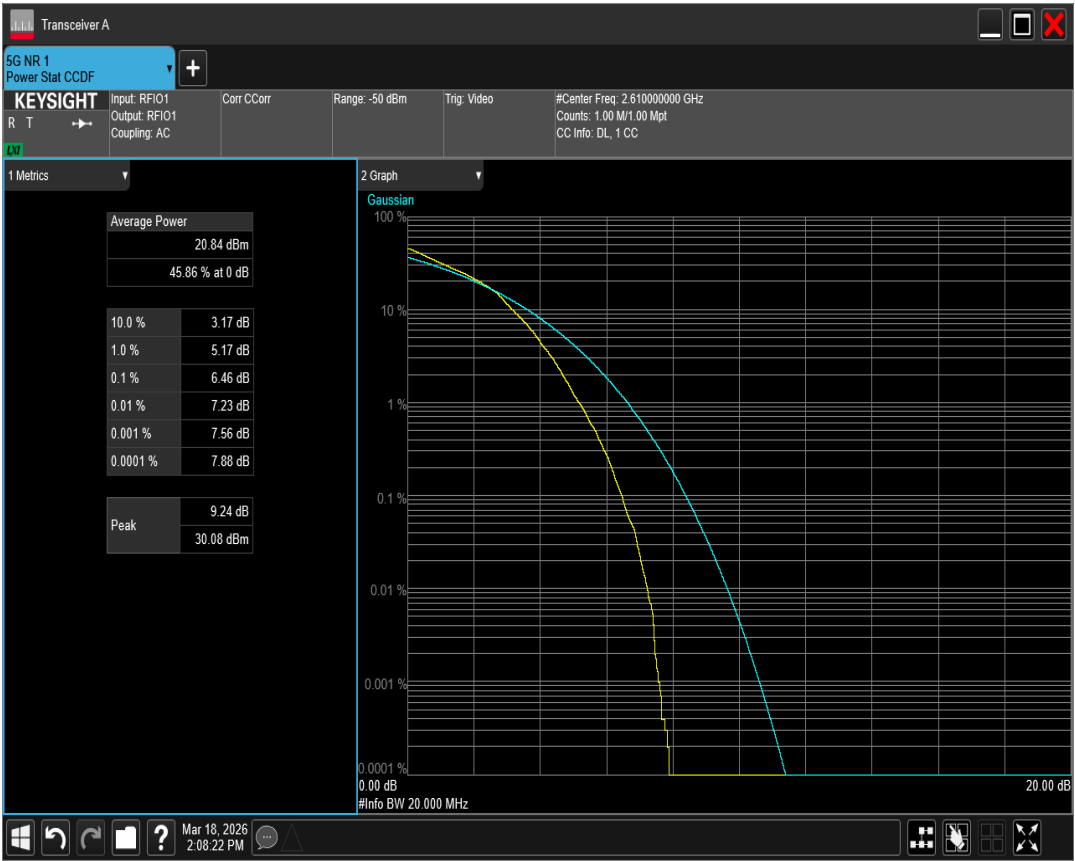
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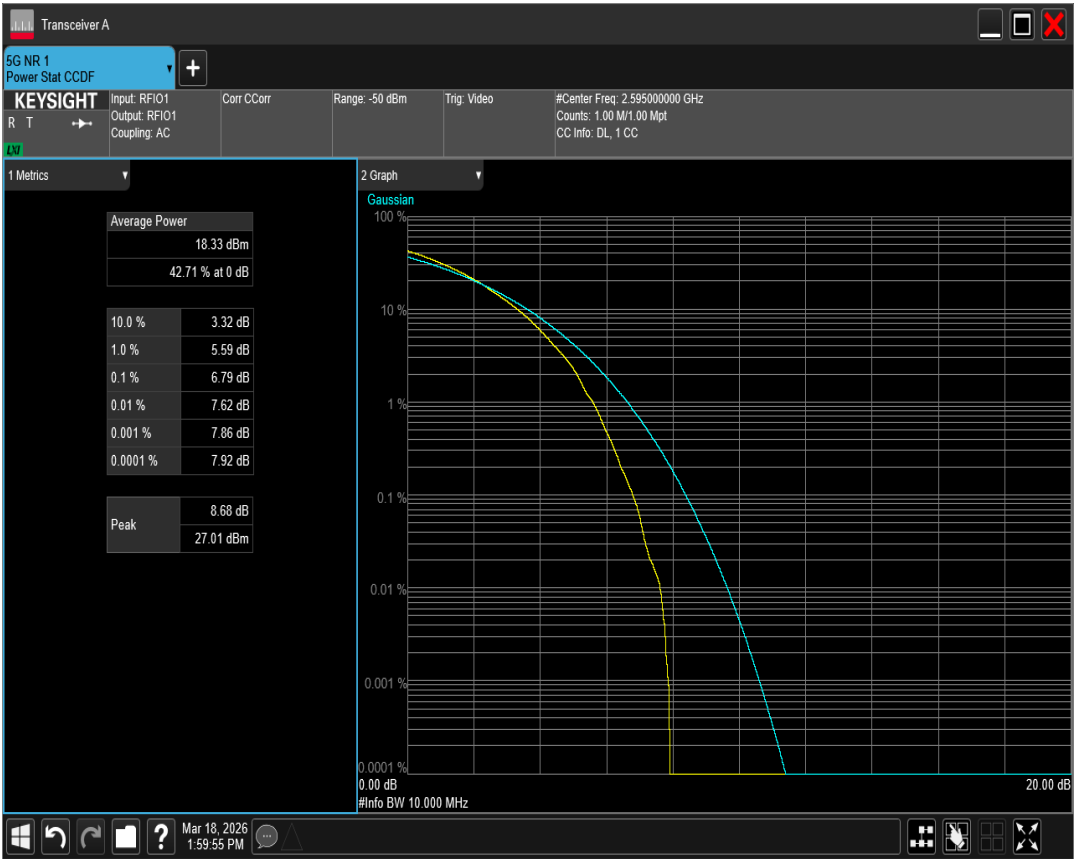
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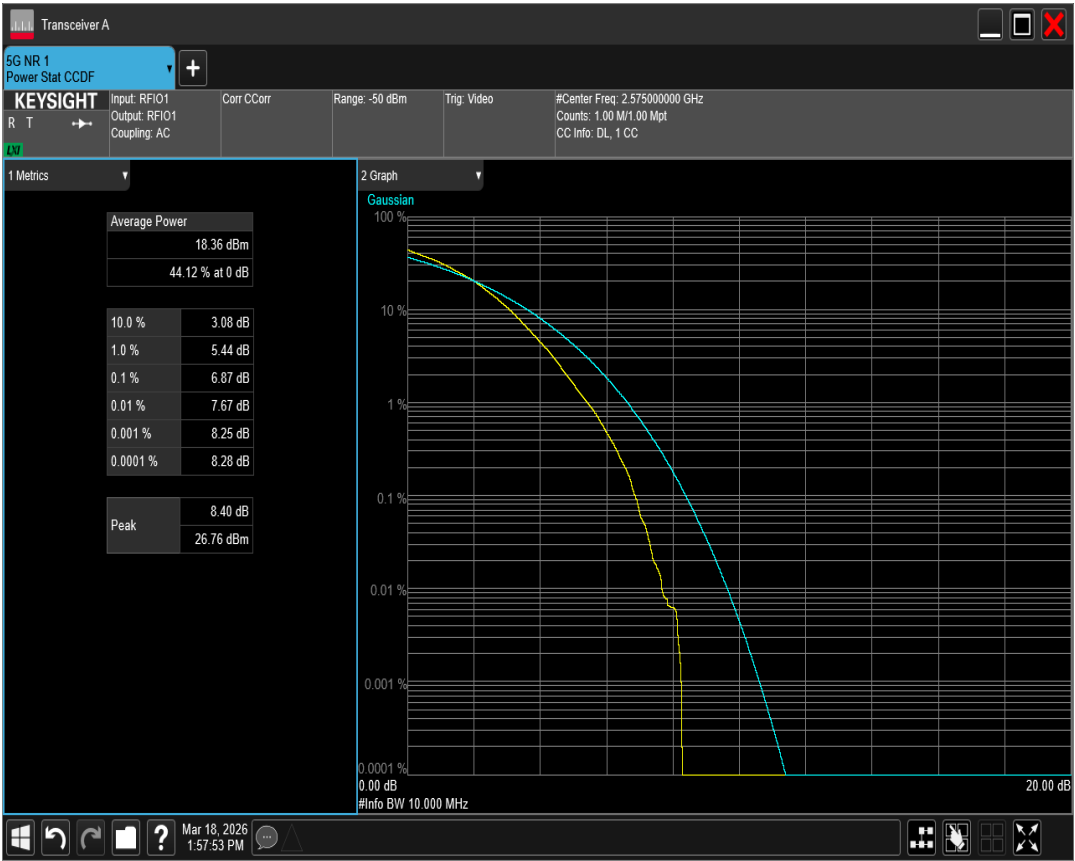
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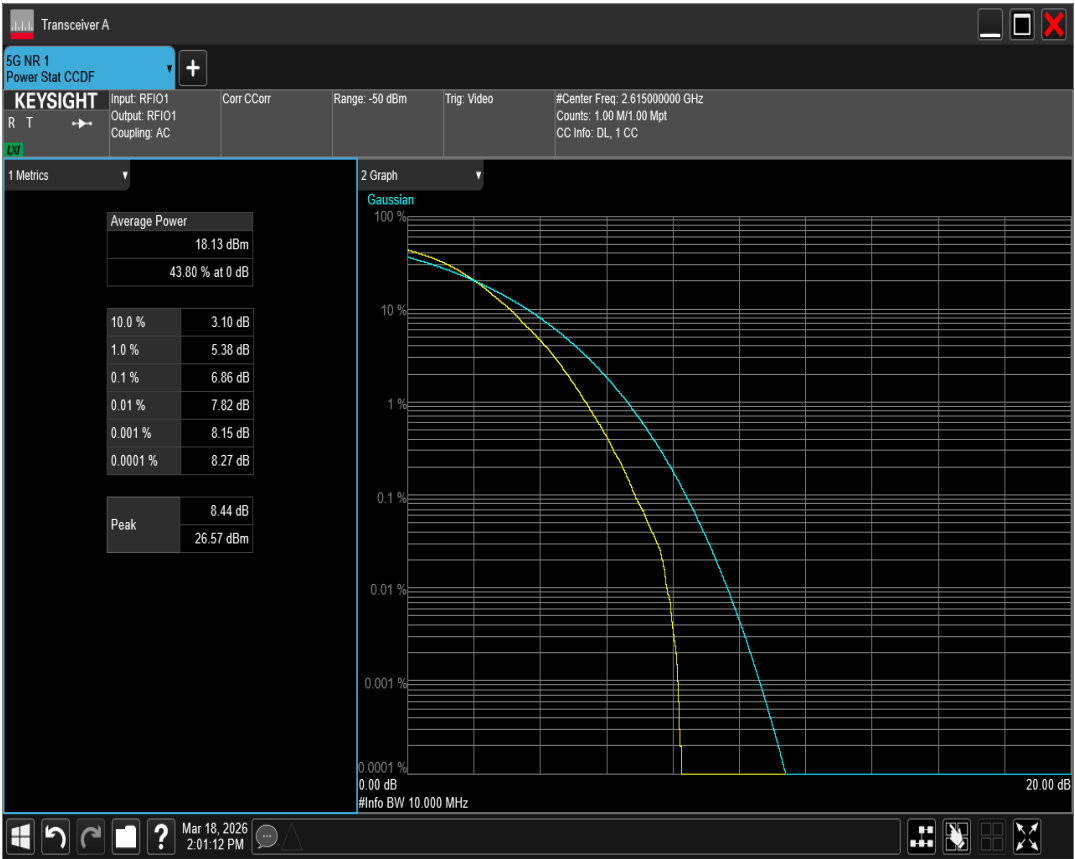
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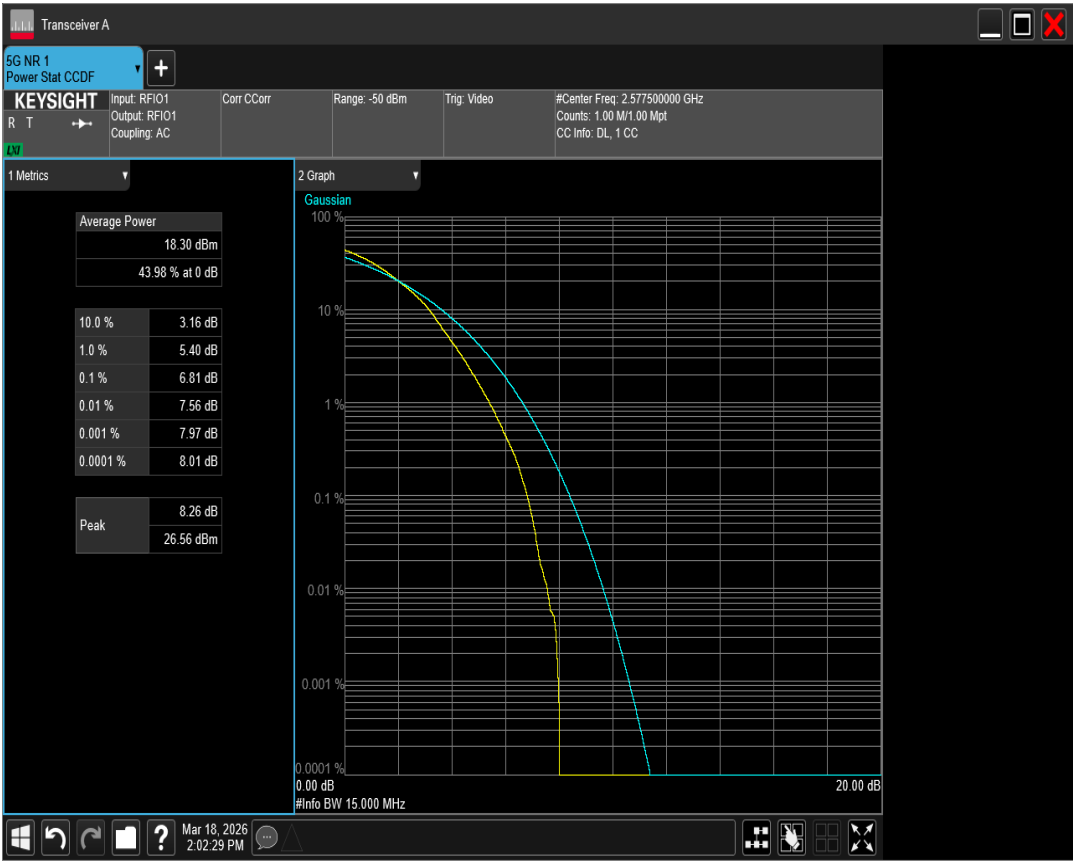
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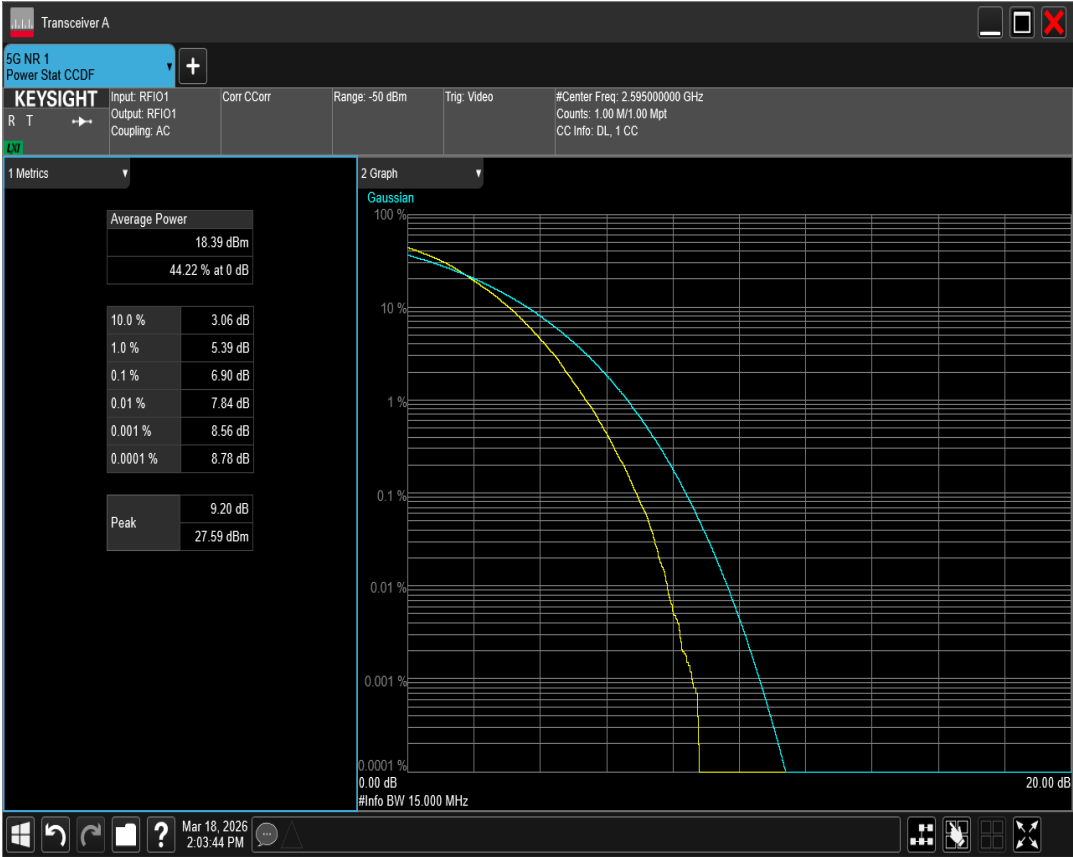
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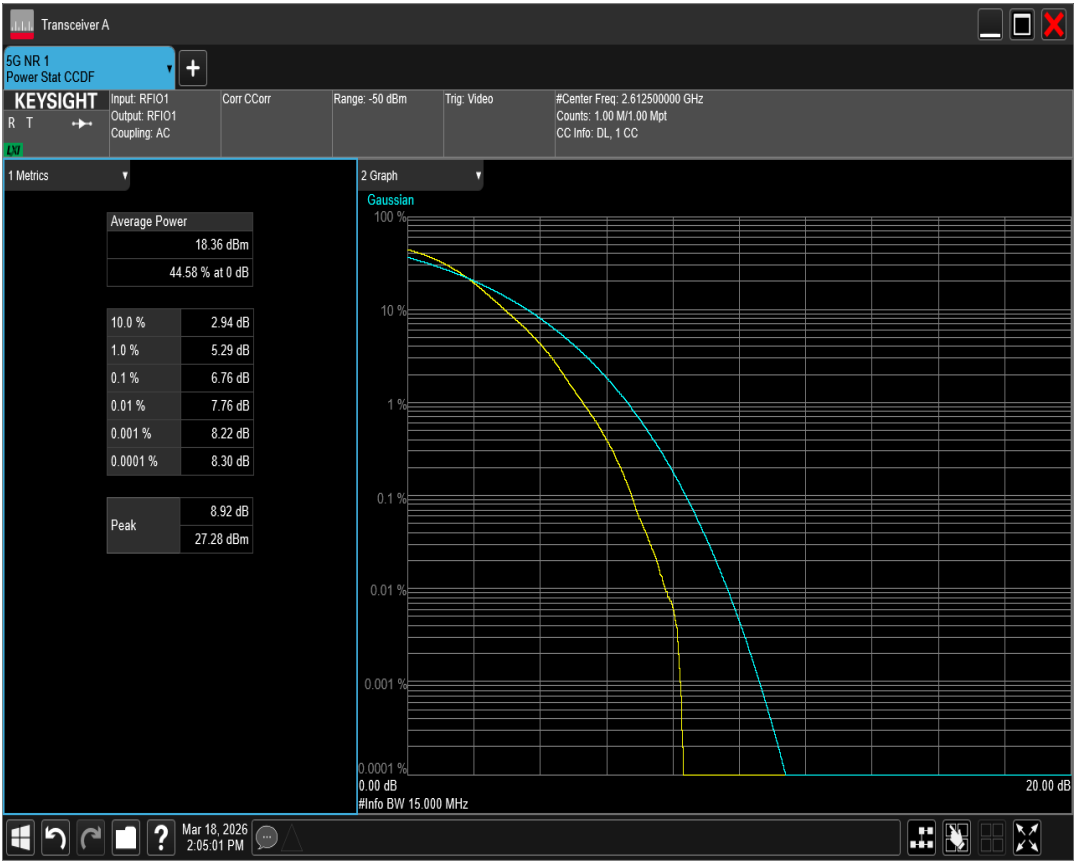
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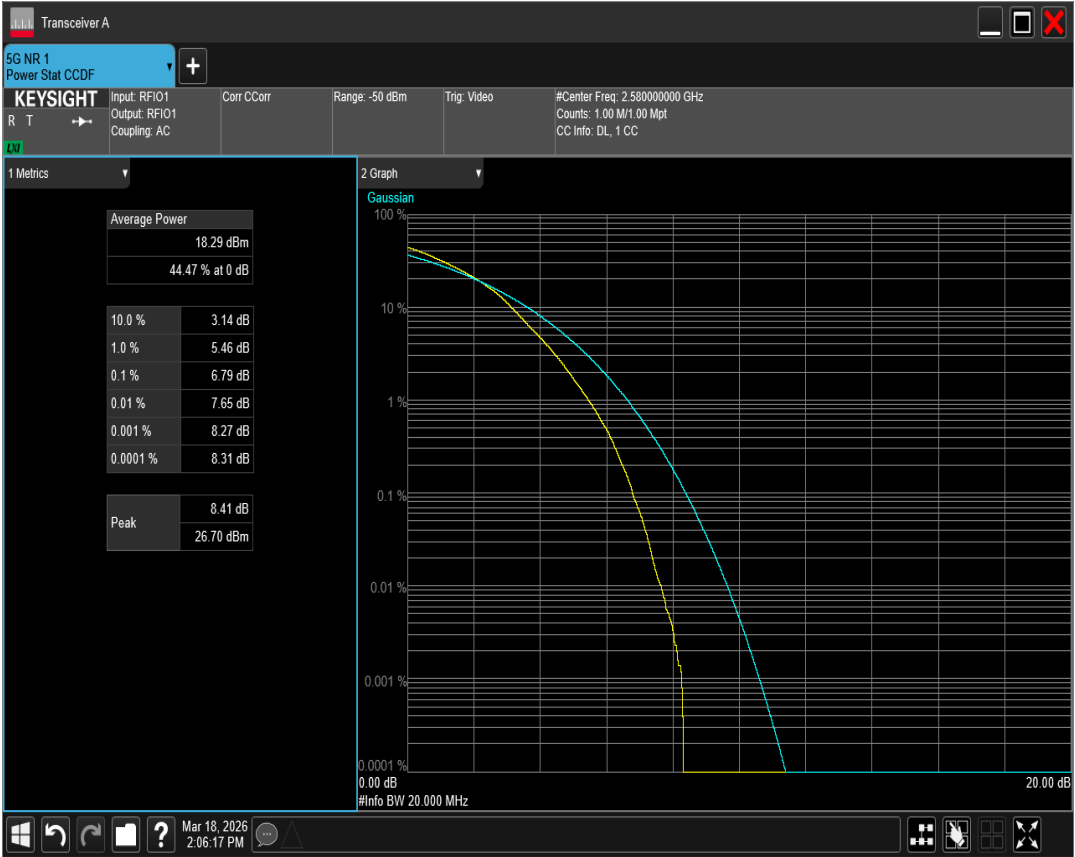
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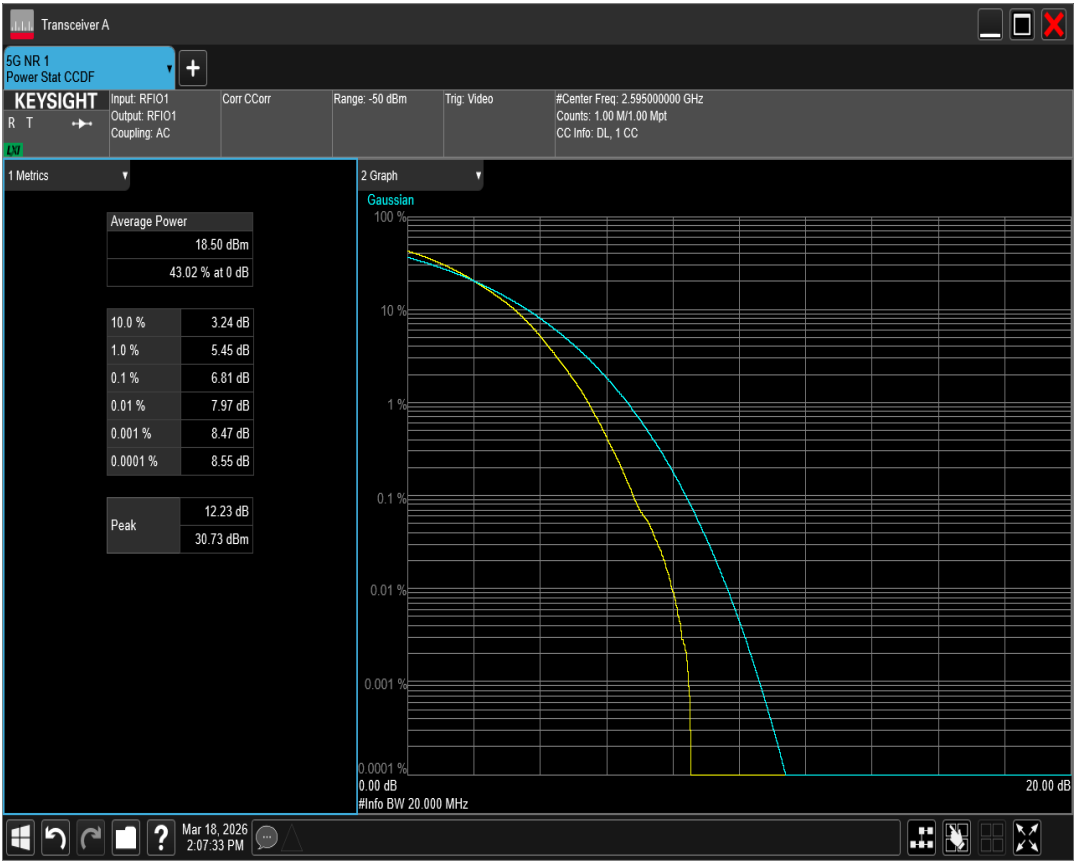
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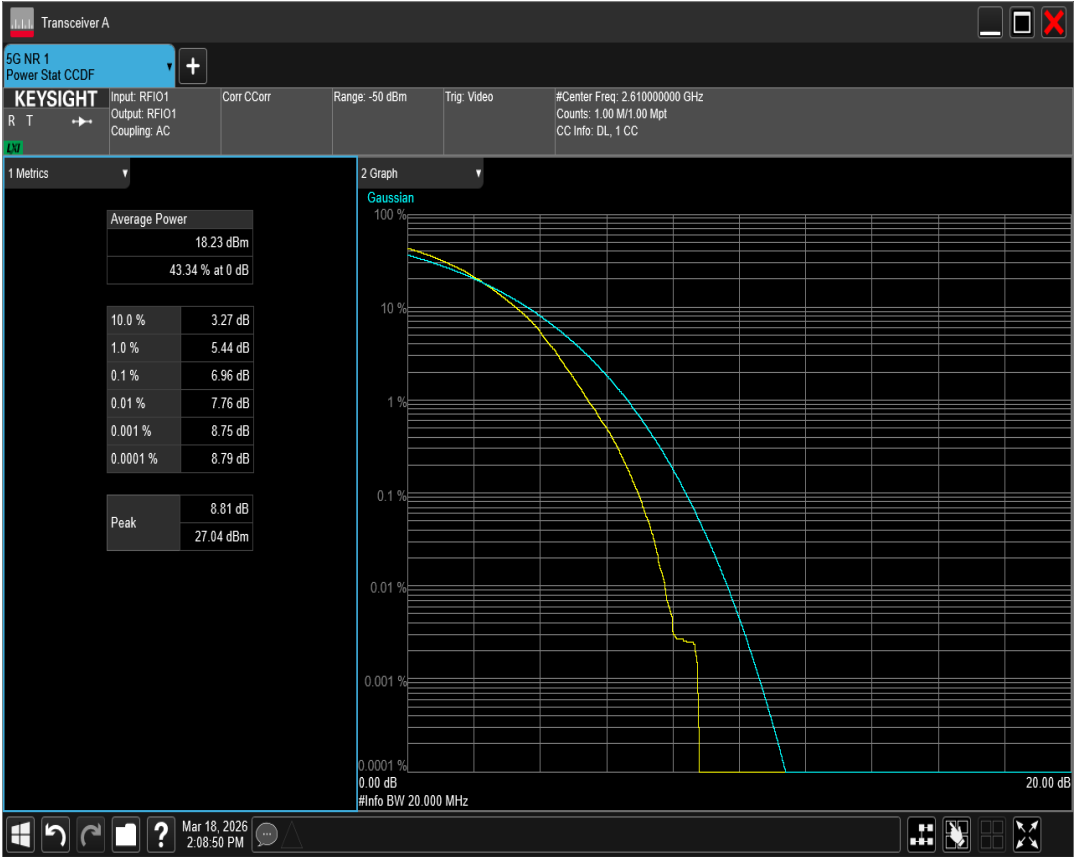
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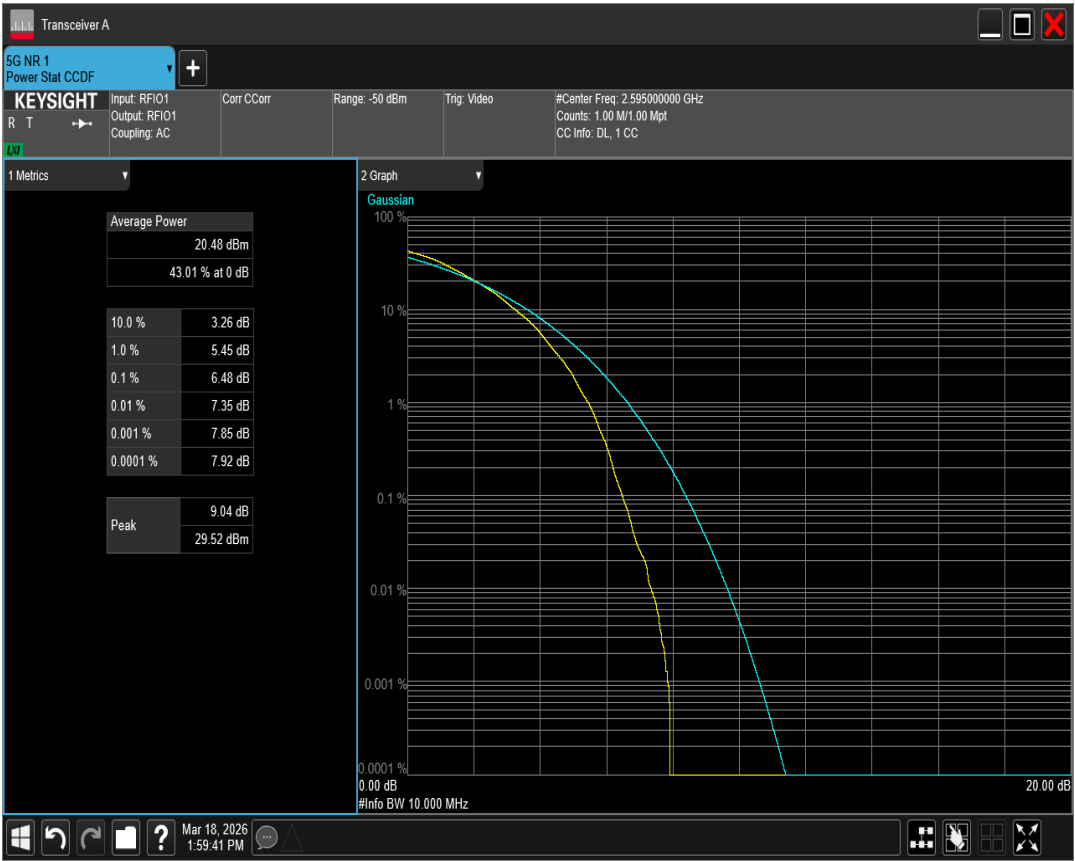
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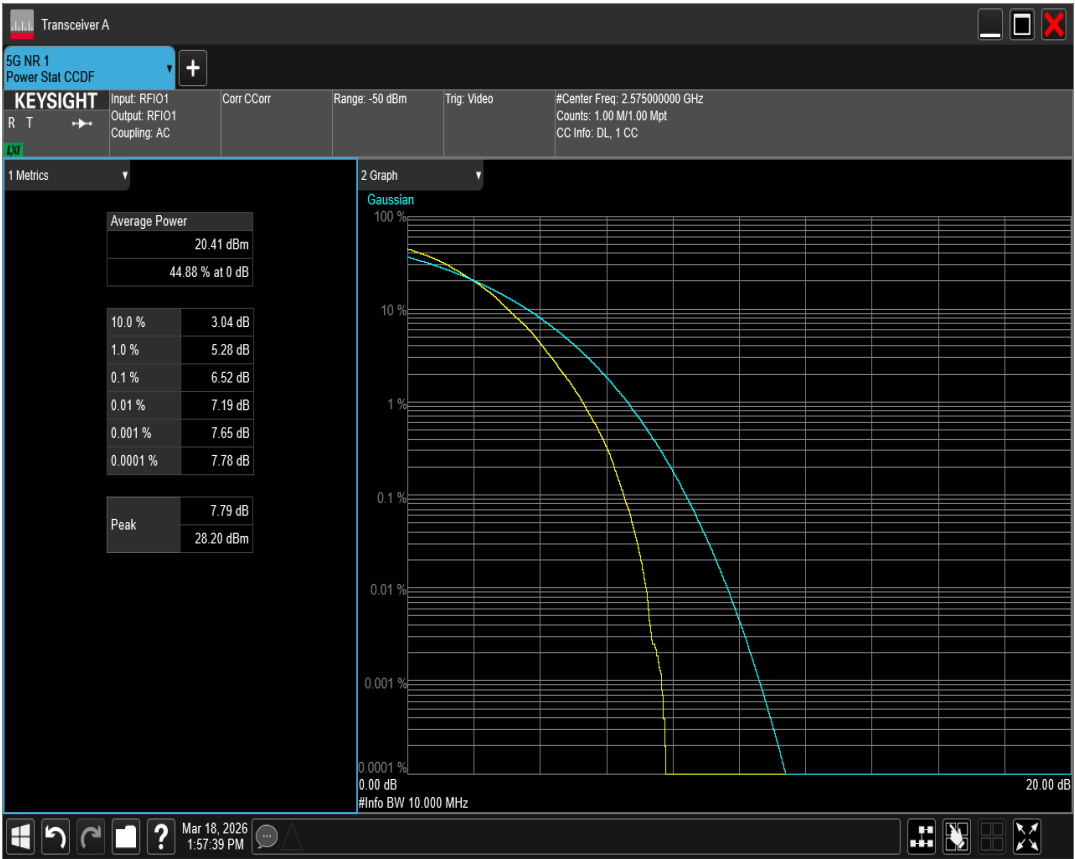
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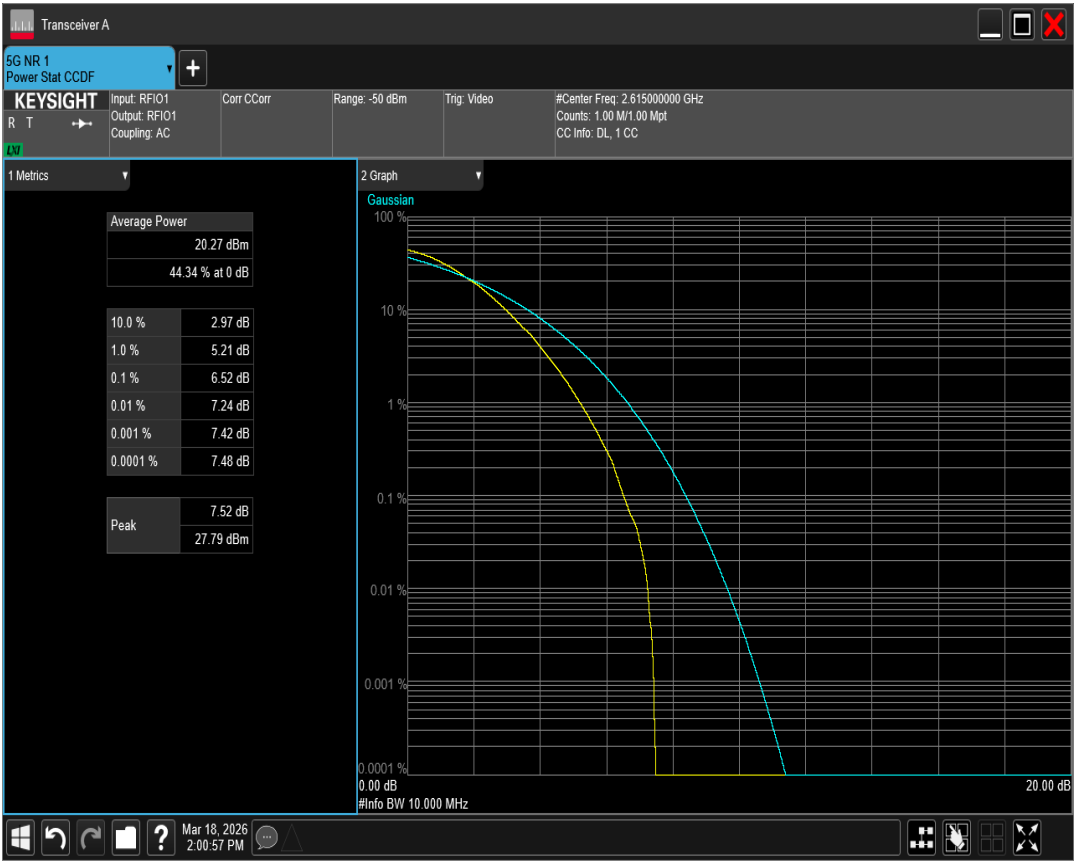
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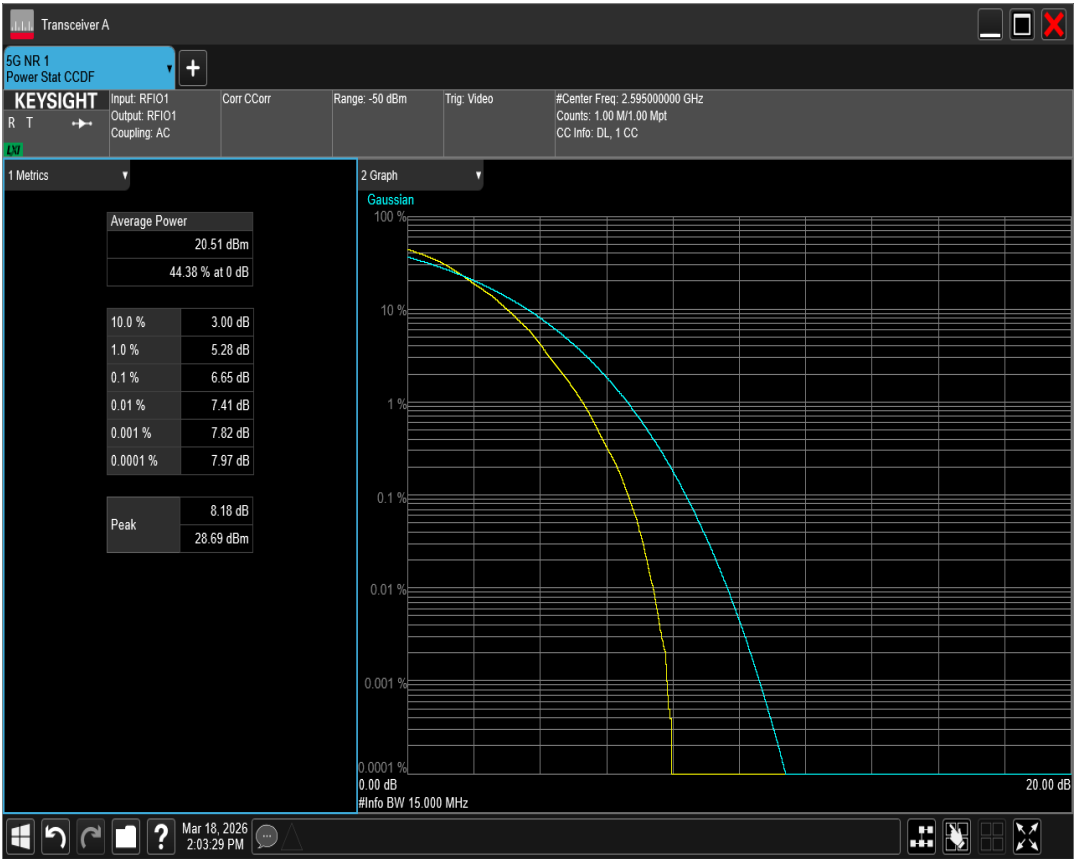
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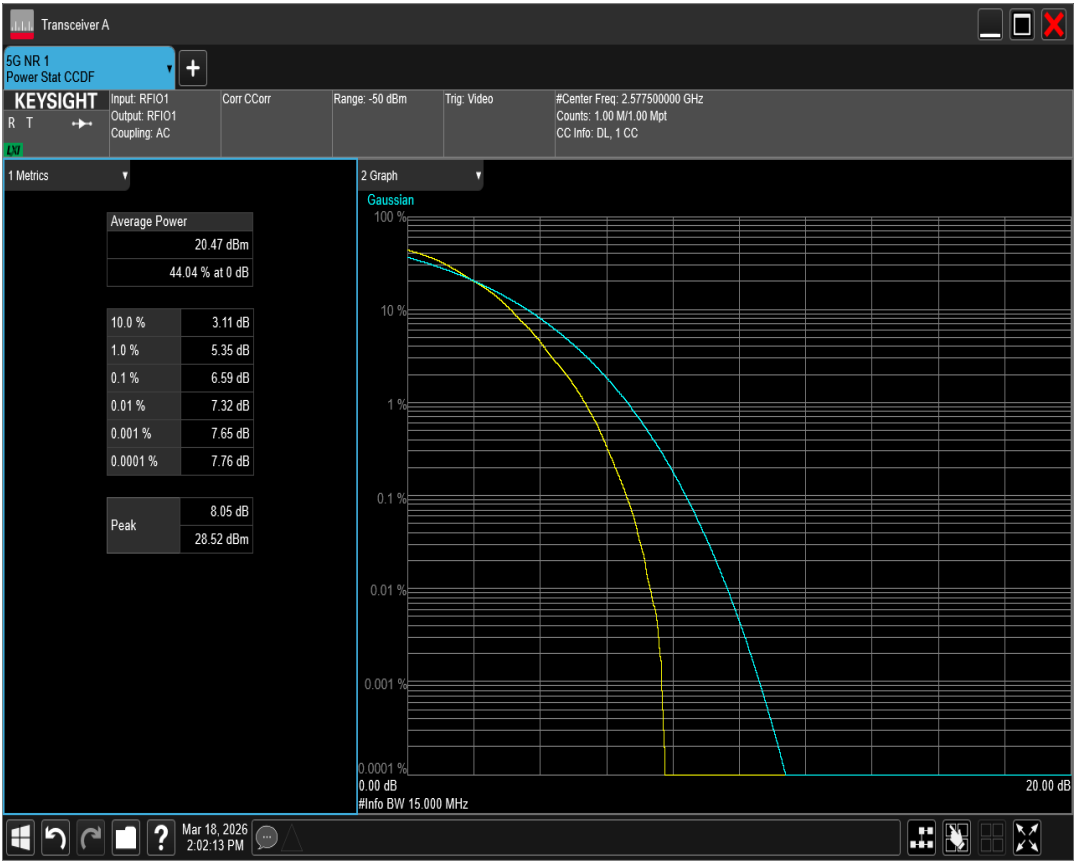
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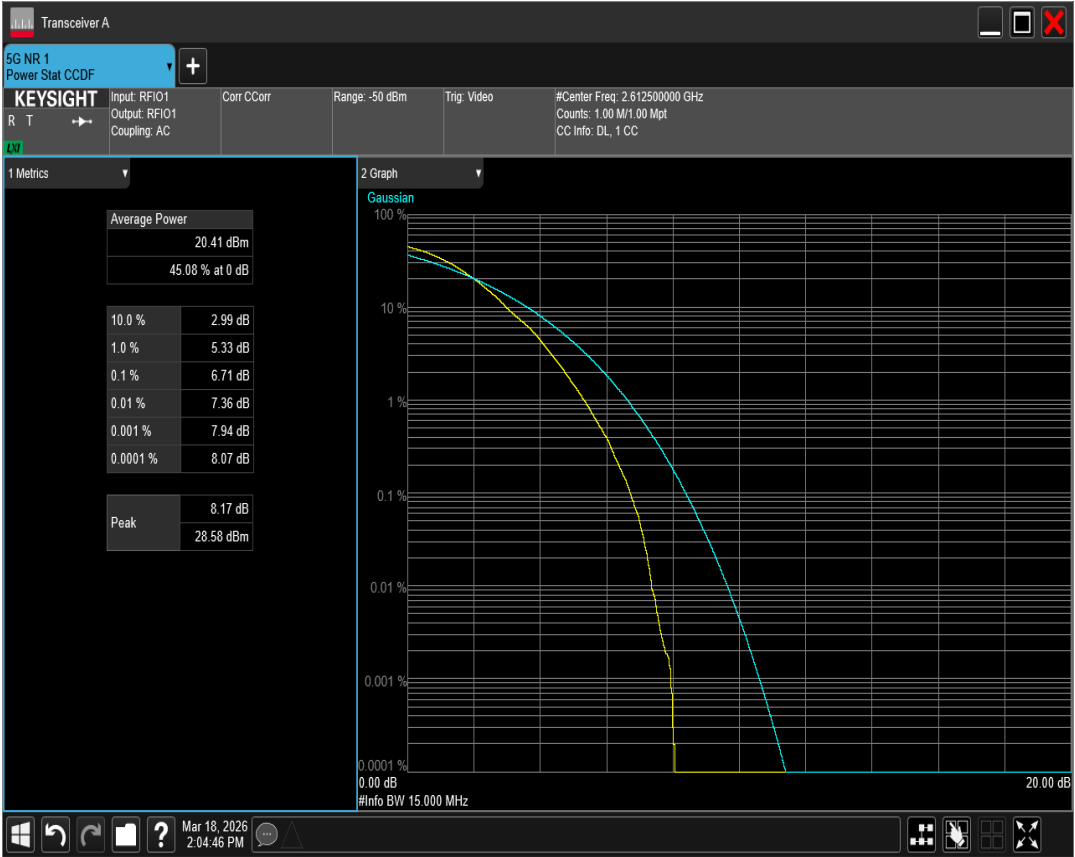
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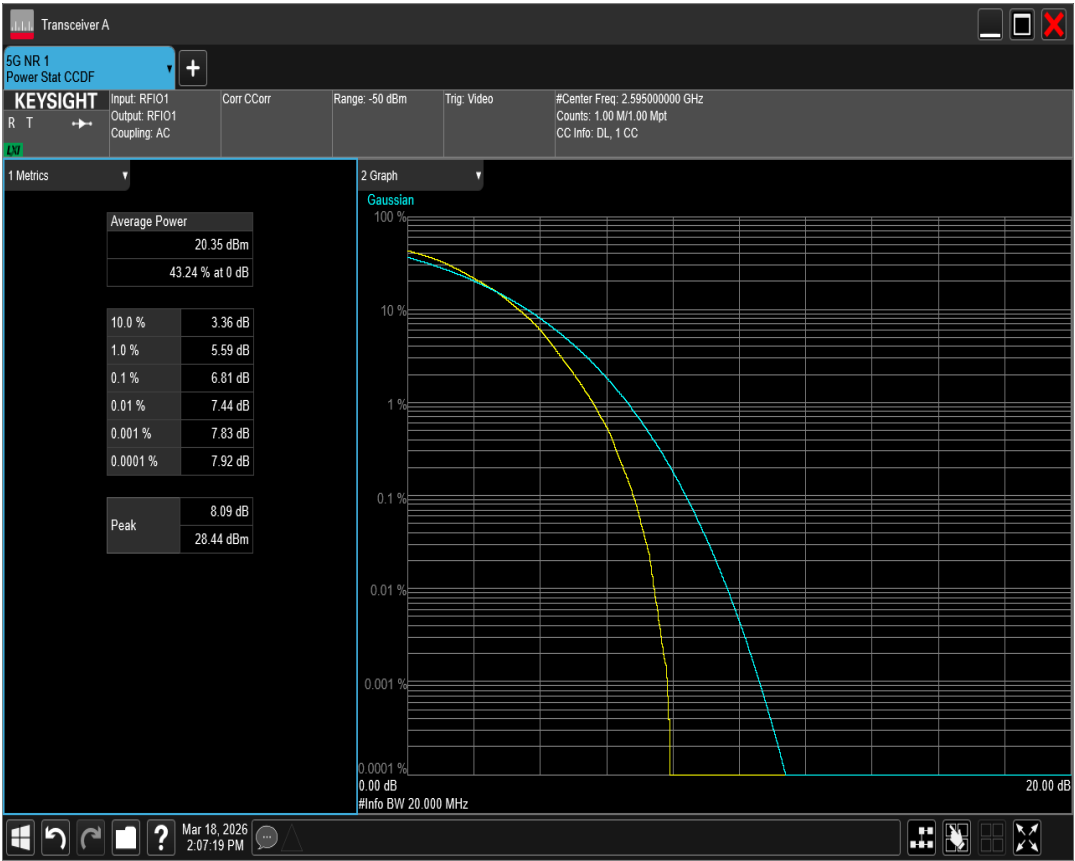
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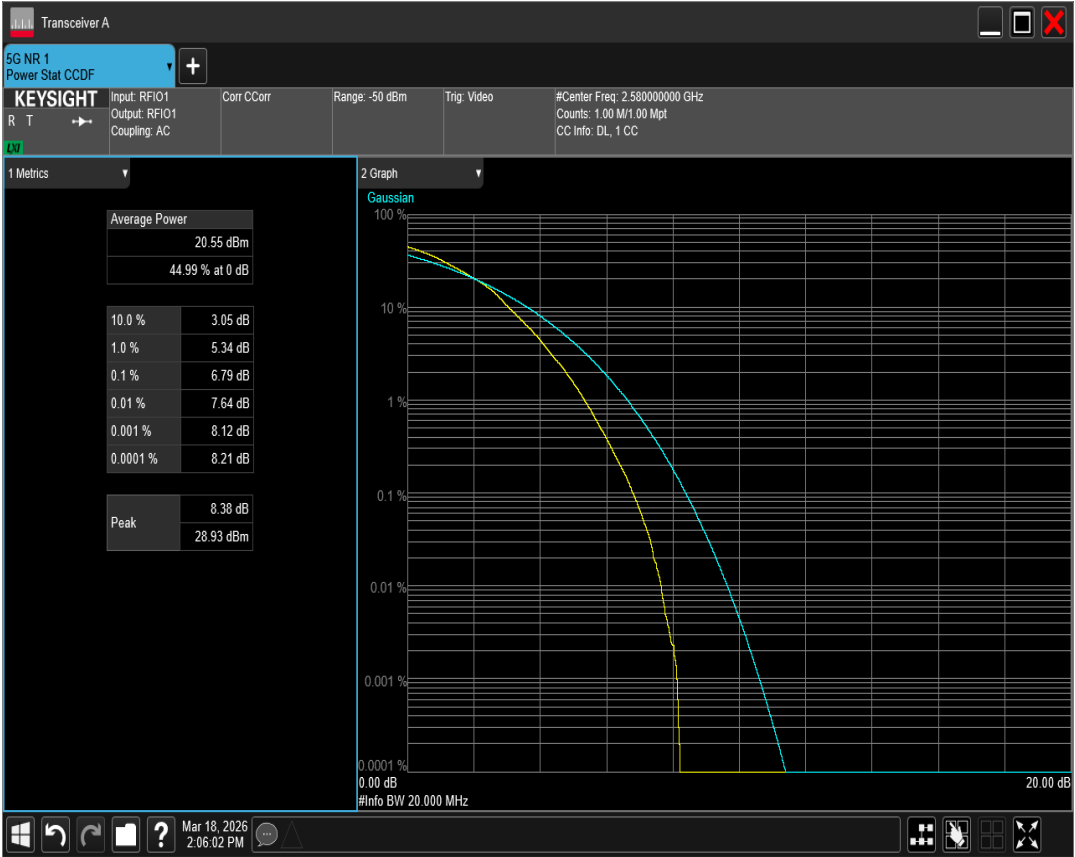
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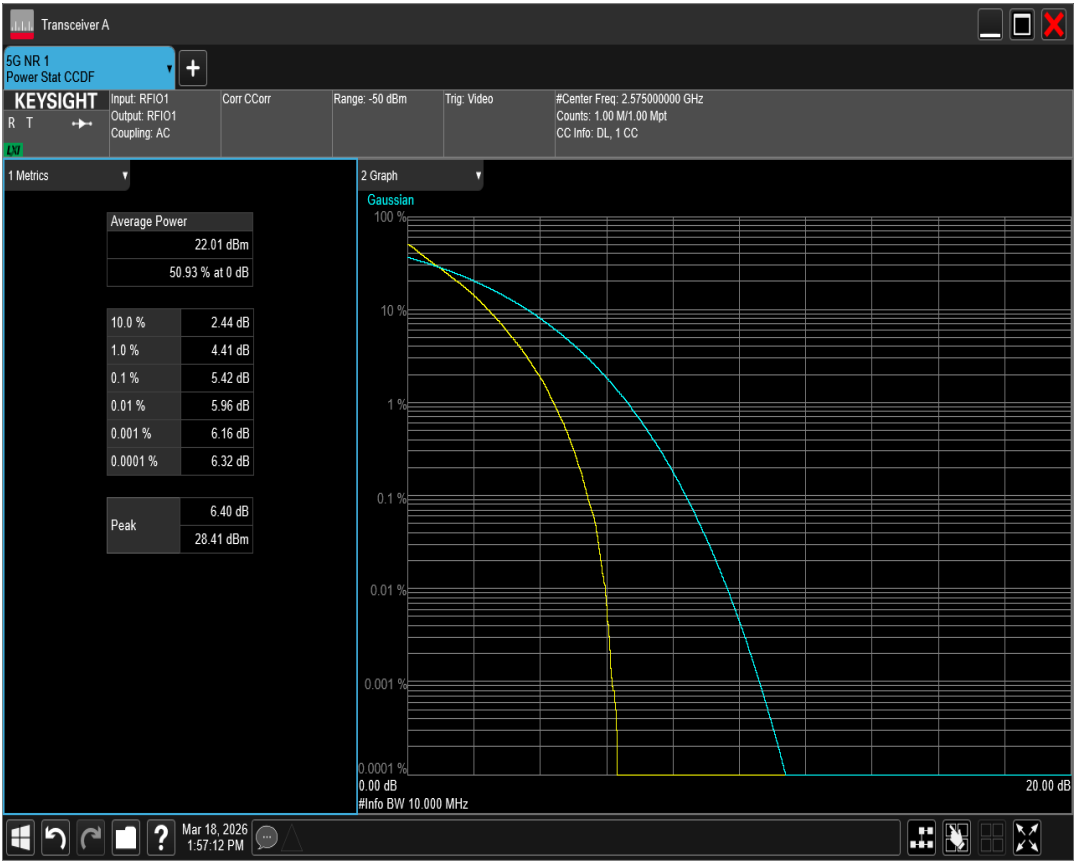
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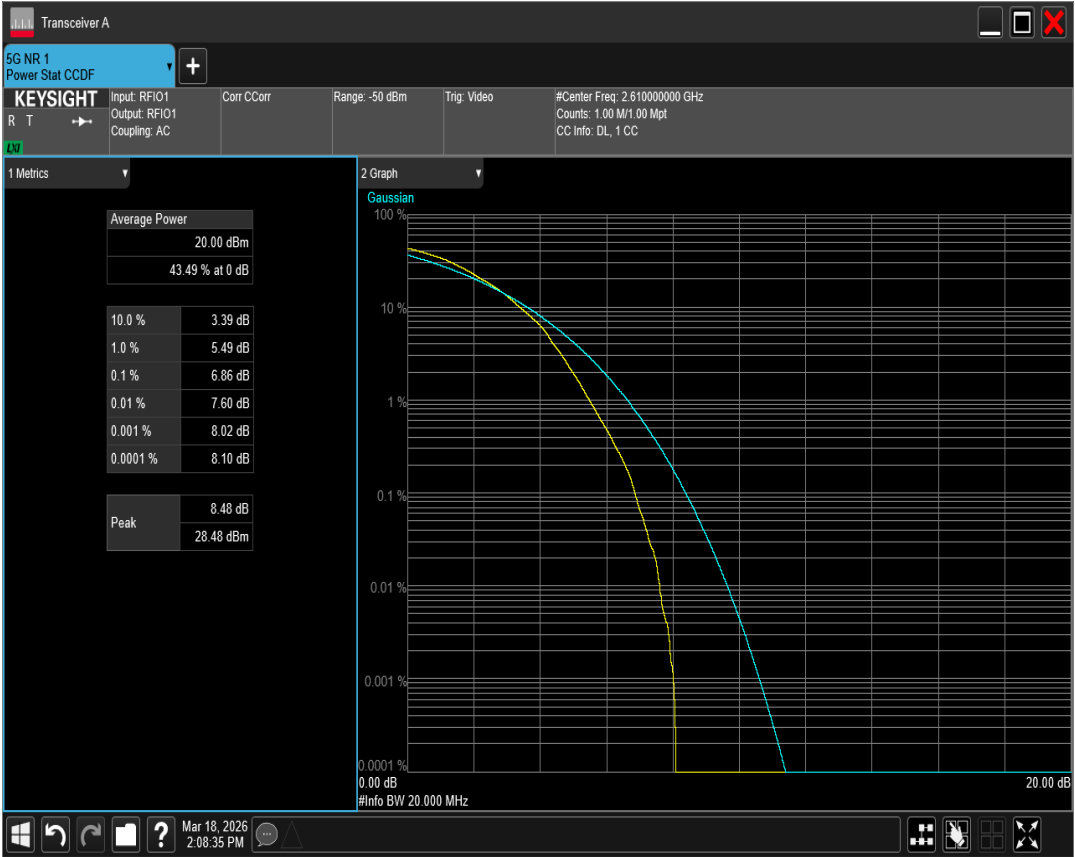
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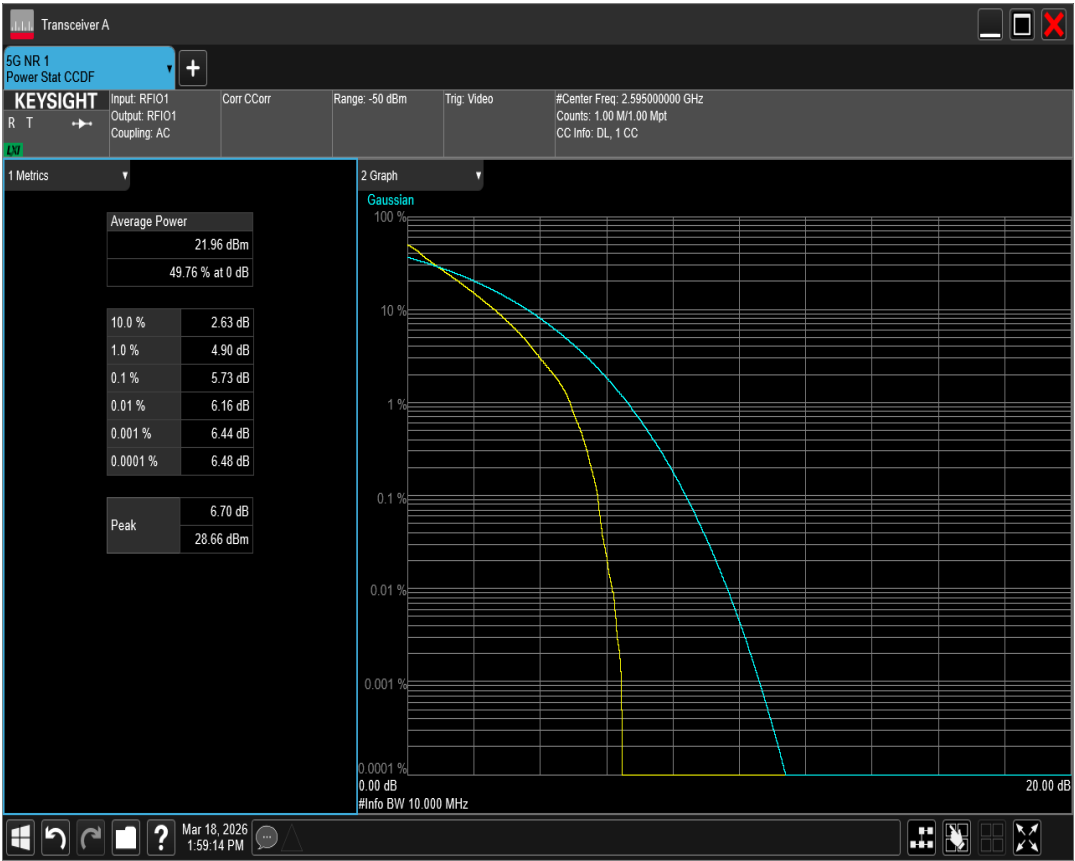
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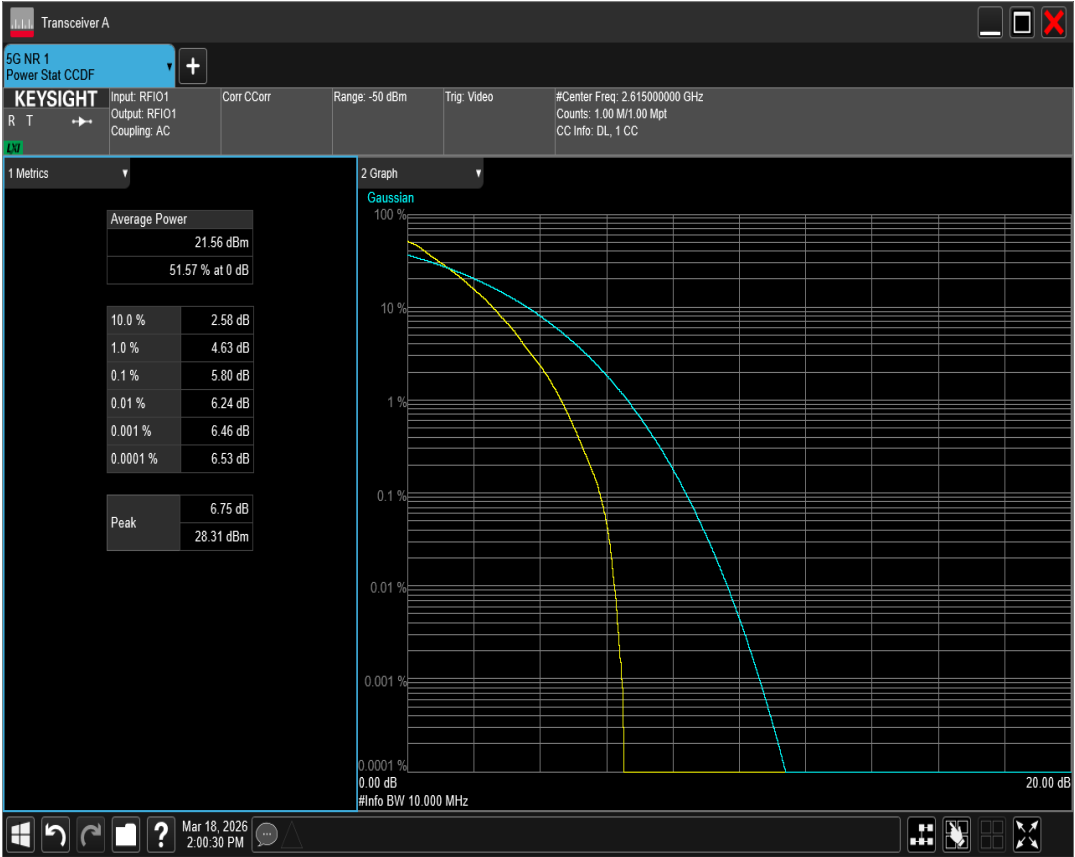
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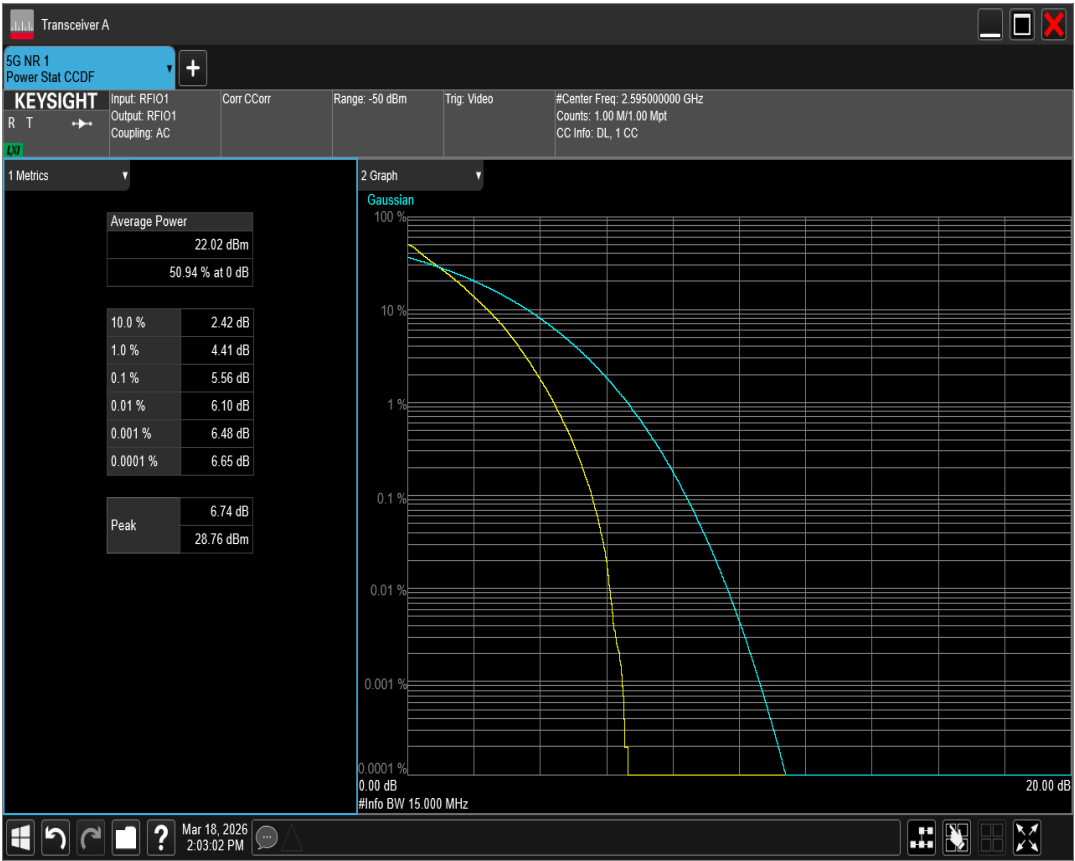
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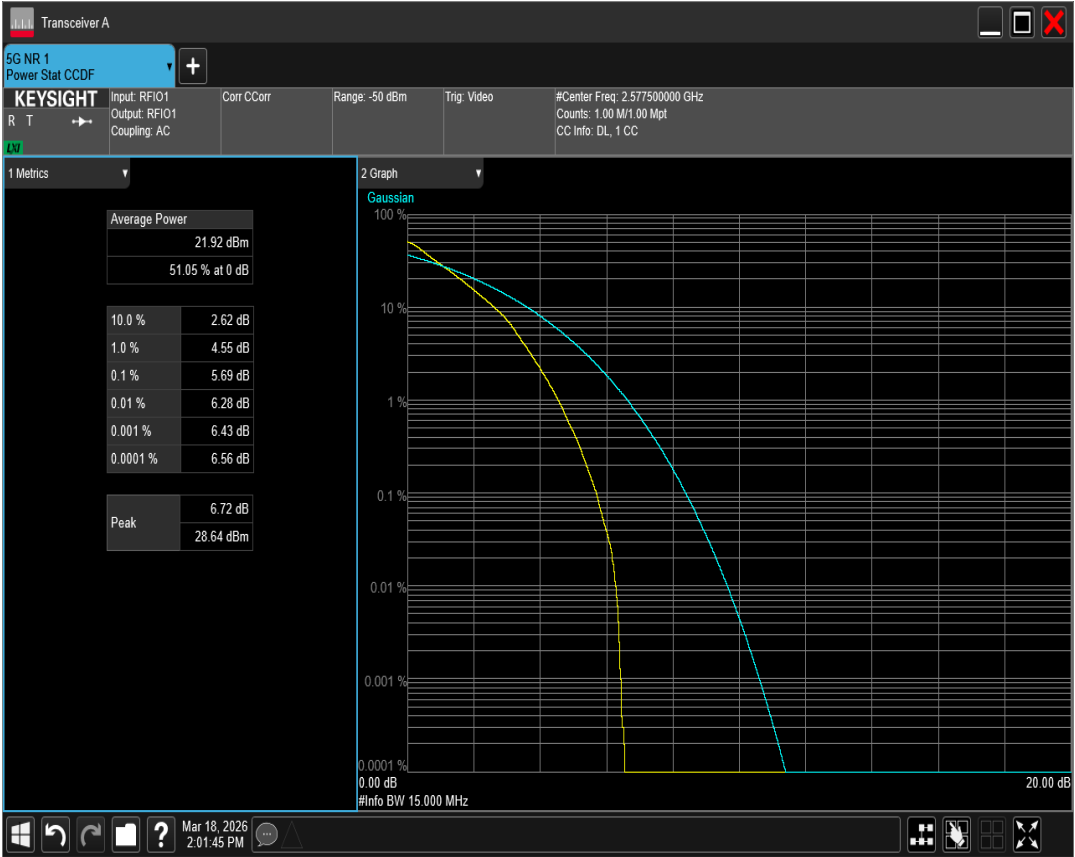
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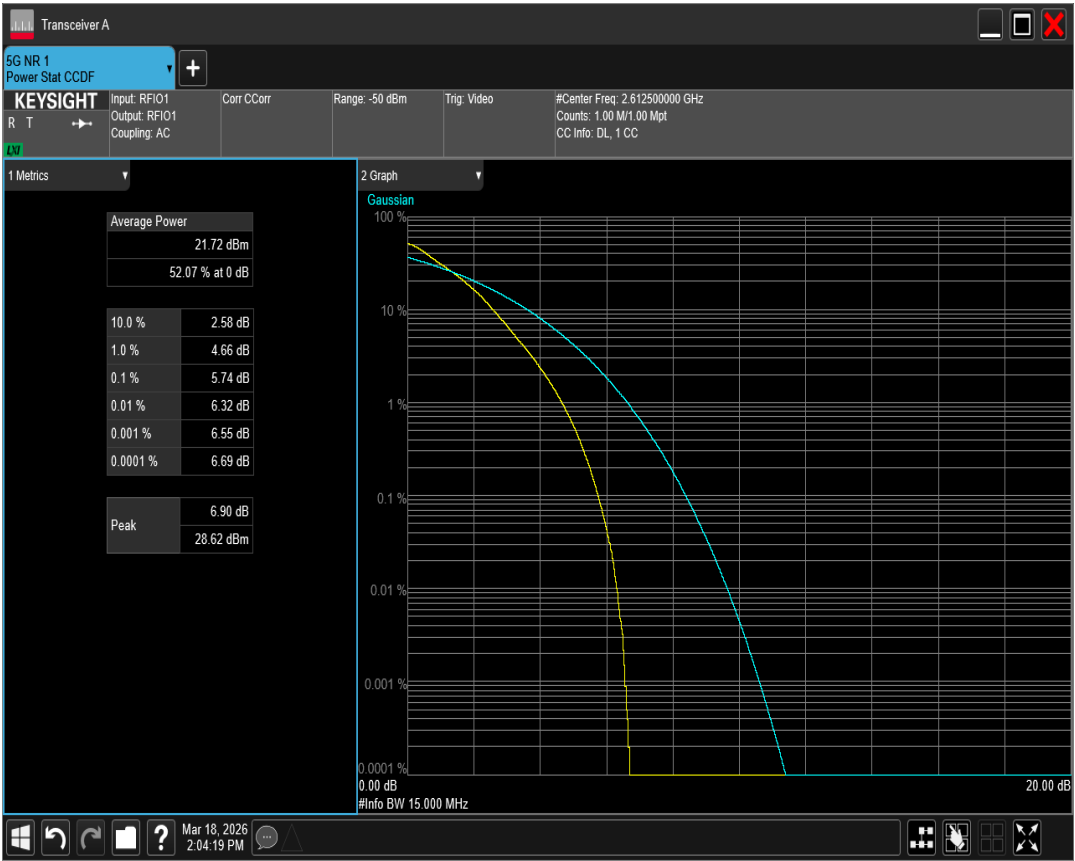
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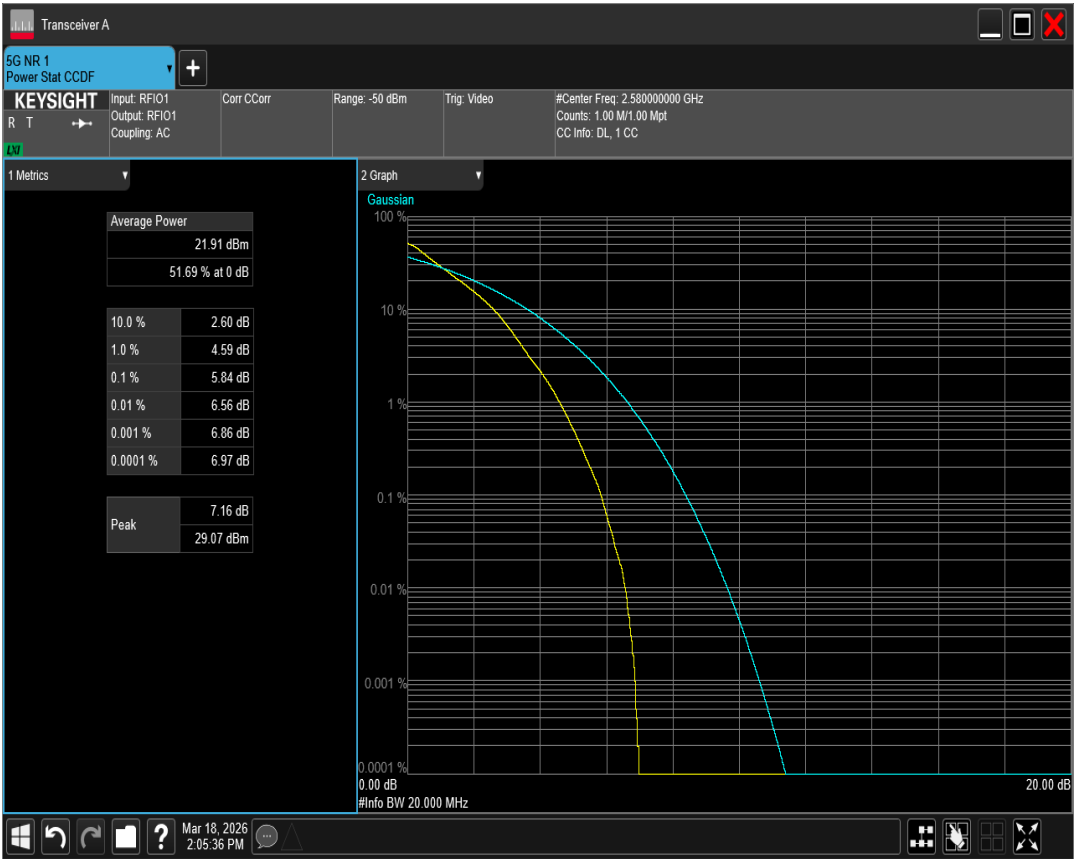
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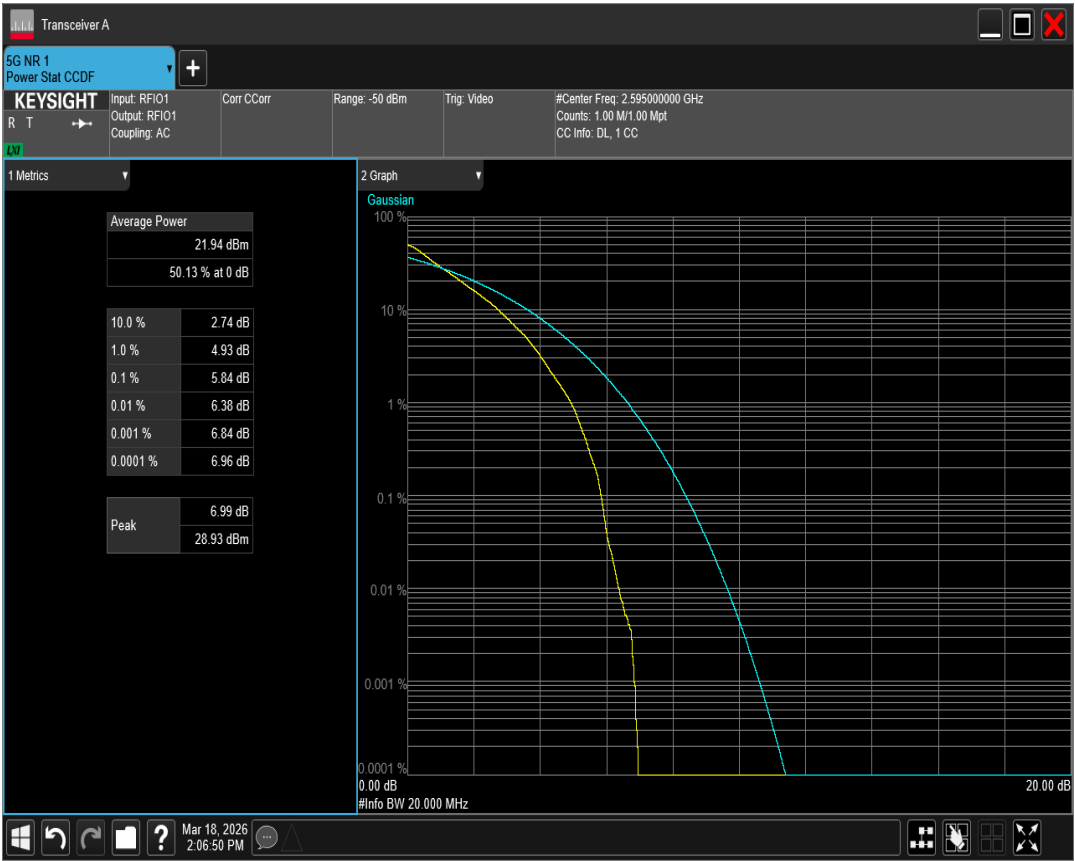
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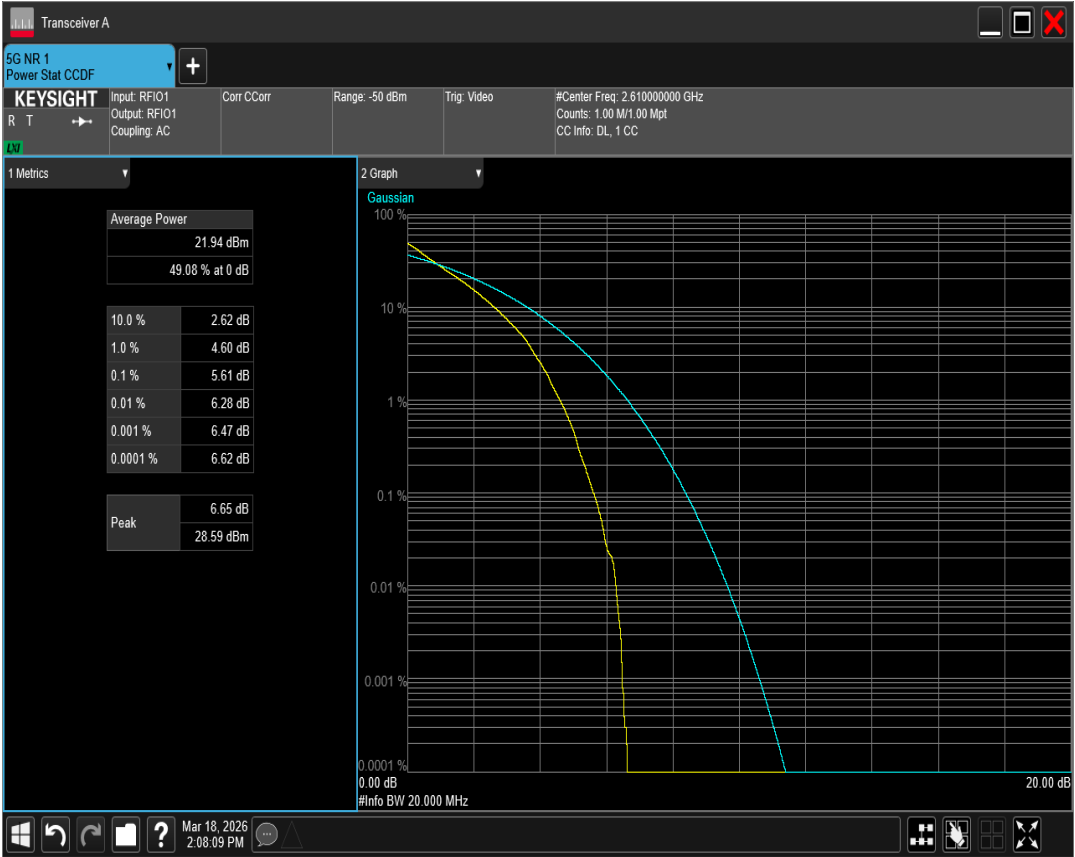
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*n38 SCS=30kHz DFT\_QPSK BW=20MHz Channel=519000 RB=50@0*



*n38 SCS=30kHz DFT\_QPSK BW=20MHz Channel=522000 RB=50@0*



## 4 Occupied bandwidth for NR FR1

| Band | SCS<br>(kHz) | Bandwidth<br>(MHz) | UL<br>Channel | RB<br>Allocation | Modulation | 99%<br>OBW<br>(MHz) | -26dB<br>EBW<br>(MHz) | Verdict |
|------|--------------|--------------------|---------------|------------------|------------|---------------------|-----------------------|---------|
| n38  | 30           | 10                 | 519000        | 24@0             | DFT_BPSK   | 8.540               | 8.920                 | PASS    |
| n38  | 30           | 10                 | 519000        | 24@0             | DFT_QPSK   | 8.570               | 8.980                 | PASS    |
| n38  | 30           | 10                 | 519000        | 24@0             | DFT_QAM16  | 8.520               | 8.840                 | PASS    |
| n38  | 30           | 10                 | 519000        | 24@0             | DFT_QAM64  | 8.530               | 8.950                 | PASS    |
| n38  | 30           | 10                 | 519000        | 24@0             | DFT_QAM256 | 8.550               | 8.910                 | PASS    |
| n38  | 30           | 15                 | 519000        | 36@0             | DFT_BPSK   | 13.440              | 13.310                | PASS    |
| n38  | 30           | 15                 | 519000        | 36@0             | DFT_QPSK   | 13.470              | 13.250                | PASS    |
| n38  | 30           | 15                 | 519000        | 36@0             | DFT_QAM16  | 13.480              | 13.250                | PASS    |
| n38  | 30           | 15                 | 519000        | 36@0             | DFT_QAM64  | 13.480              | 13.250                | PASS    |
| n38  | 30           | 15                 | 519000        | 36@0             | DFT_QAM256 | 13.470              | 13.240                | PASS    |
| n38  | 30           | 20                 | 519000        | 50@0             | DFT_BPSK   | 18.010              | 18.280                | PASS    |
| n38  | 30           | 20                 | 519000        | 50@0             | DFT_QPSK   | 18.000              | 18.250                | PASS    |
| n38  | 30           | 20                 | 519000        | 50@0             | DFT_QAM16  | 17.980              | 18.270                | PASS    |
| n38  | 30           | 20                 | 519000        | 50@0             | DFT_QAM64  | 18.080              | 18.270                | PASS    |
| n38  | 30           | 20                 | 519000        | 50@0             | DFT_QAM256 | 18.080              | 18.290                | PASS    |

**n38 SCS=30kHz DFT\_BPSK BW=10MHz Channel=519000 RB=24@0**



**n38 SCS=30kHz DFT\_BPSK BW=15MHz Channel=519000 RB=36@0**



***n38 SCS=30kHz DFT\_QAM16 BW=10MHz Channel=519000 RB=24@0***



***n38 SCS=30kHz DFT\_BPSK BW=20MHz Channel=519000 RB=50@0***



**n38 SCS=30kHz DFT\_QAM16 BW=20MHz Channel=519000 RB=50@0**



**n38 SCS=30kHz DFT\_QAM16 BW=15MHz Channel=519000 RB=36@0**



*n38 SCS=30kHz DFT\_QAM256 BW=20MHz Channel=519000 RB=50@0*



*n38 SCS=30kHz DFT\_QAM256 BW=15MHz Channel=519000 RB=36@0*



*n38 SCS=30kHz DFT\_QAM256 BW=10MHz Channel=519000 RB=24@0*



*n38 SCS=30kHz DFT\_QAM64 BW=20MHz Channel=519000 RB=50@0*



n38 SCS=30kHz DFT\_QAM64 BW=15MHz Channel=519000 RB=36@0



n38 SCS=30kHz DFT\_QAM64 BW=10MHz Channel=519000 RB=24@0



n38 SCS=30kHz DFT\_QPSK BW=15MHz Channel=519000 RB=36@0



n38 SCS=30kHz DFT\_QPSK BW=10MHz Channel=519000 RB=24@0



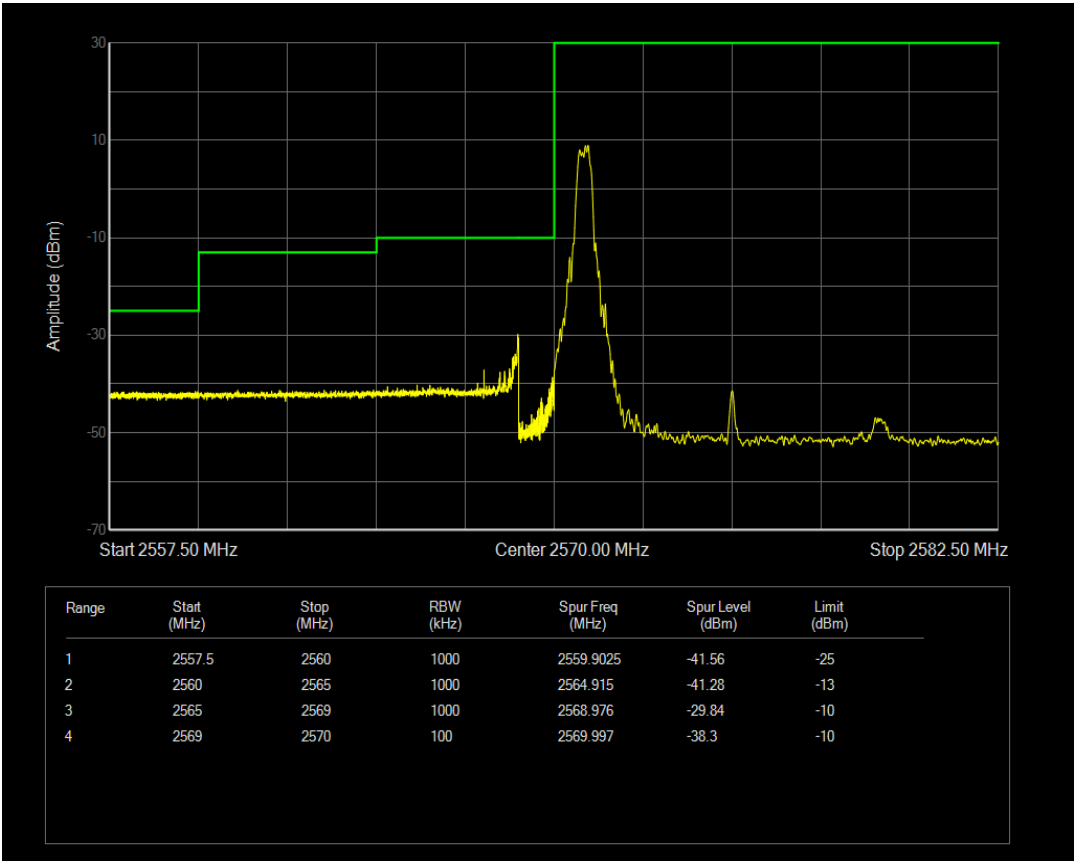
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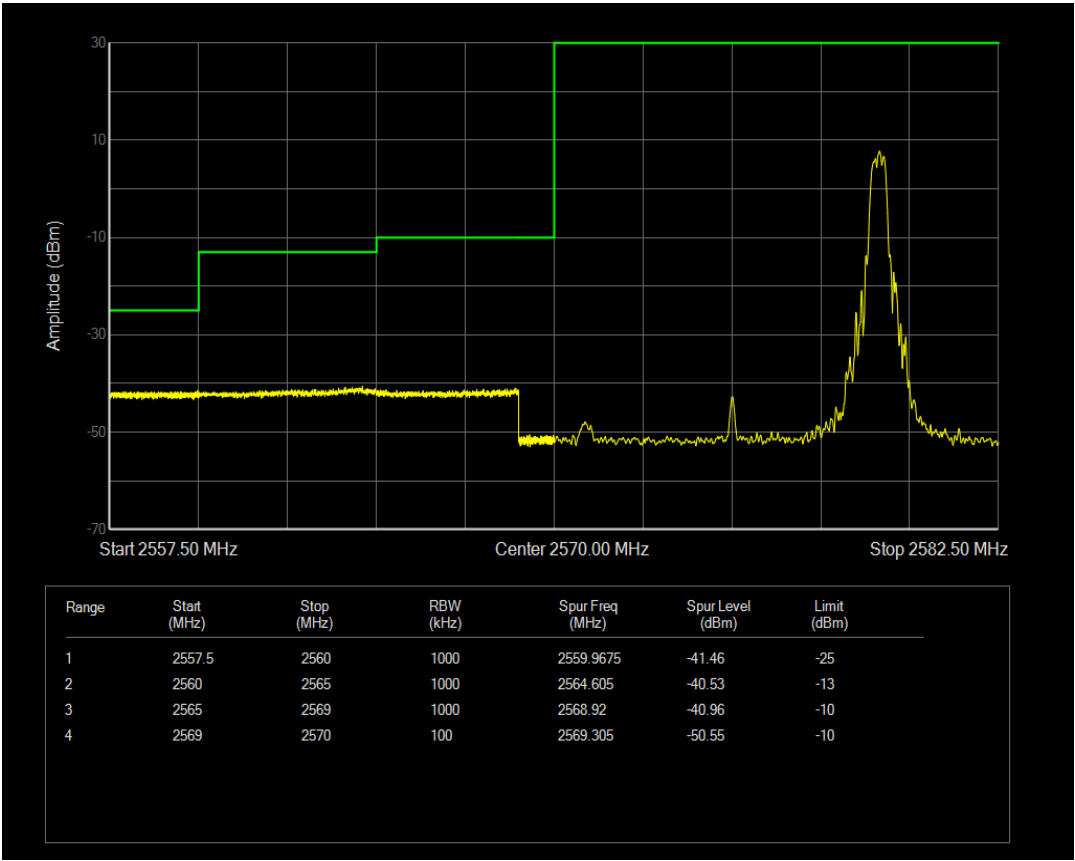
## 5 Band edge for NR FR1

| <i>Band</i> | <i>SCS<br/>(kHz)</i> | <i>Bandwidth<br/>(MHz)</i> | <i>UL<br/>Channel</i> | <i>RB<br/>Allocation</i> | <i>Modulation</i> | <i>Spur<br/>Freq<br/>(MHz)</i> | <i>Spur<br/>Level<br/>(dBm)</i> | <i>Limit<br/>(dBm)</i> | <i>Verdict</i> |
|-------------|----------------------|----------------------------|-----------------------|--------------------------|-------------------|--------------------------------|---------------------------------|------------------------|----------------|
| n38         | 30                   | 10                         | 515000                | 24@0                     | CP_QPSK           | 2559.63                        | -38.36                          | -25                    | PASS           |
| n38         | 30                   | 10                         | 515000                | 1@0                      | CP_QPSK           | 2559.90                        | -41.56                          | -25                    | PASS           |
| n38         | 30                   | 10                         | 515000                | 1@23                     | CP_QPSK           | 2559.97                        | -41.46                          | -25                    | PASS           |
| n38         | 30                   | 10                         | 523000                | 24@0                     | CP_QPSK           | 2630.58                        | -35.18                          | -25                    | PASS           |
| n38         | 30                   | 10                         | 523000                | 1@0                      | CP_QPSK           | 2631.17                        | -41.44                          | -25                    | PASS           |
| n38         | 30                   | 10                         | 523000                | 1@23                     | CP_QPSK           | 2630.09                        | -41.13                          | -25                    | PASS           |
| n38         | 30                   | 15                         | 515500                | 38@0                     | CP_QPSK           | 2568.90                        | -20.63                          | -10                    | PASS           |
| n38         | 30                   | 15                         | 515500                | 1@0                      | CP_QPSK           | 2553.40                        | -41.39                          | -25                    | PASS           |
| n38         | 30                   | 15                         | 515500                | 1@37                     | CP_QPSK           | 2551.78                        | -41.55                          | -25                    | PASS           |
| n38         | 30                   | 15                         | 522500                | 38@0                     | CP_QPSK           | 2636.61                        | -38.18                          | -25                    | PASS           |
| n38         | 30                   | 15                         | 522500                | 1@0                      | CP_QPSK           | 2636.17                        | -41.44                          | -25                    | PASS           |
| n38         | 30                   | 15                         | 522500                | 1@37                     | CP_QPSK           | 2637.84                        | -41.35                          | -25                    | PASS           |
| n38         | 30                   | 20                         | 516000                | 51@0                     | CP_QPSK           | 2549.98                        | -39.96                          | -25                    | PASS           |
| n38         | 30                   | 20                         | 516000                | 1@0                      | CP_QPSK           | 2548.26                        | -41.40                          | -25                    | PASS           |
| n38         | 30                   | 20                         | 516000                | 1@50                     | CP_QPSK           | 2546.37                        | -41.50                          | -25                    | PASS           |
| n38         | 30                   | 20                         | 522000                | 51@0                     | CP_QPSK           | 2640.21                        | -38.67                          | -25                    | PASS           |
| n38         | 30                   | 20                         | 522000                | 1@0                      | CP_QPSK           | 2640.38                        | -41.65                          | -25                    | PASS           |
| n38         | 30                   | 20                         | 522000                | 1@50                     | CP_QPSK           | 2643.15                        | -41.21                          | -25                    | PASS           |

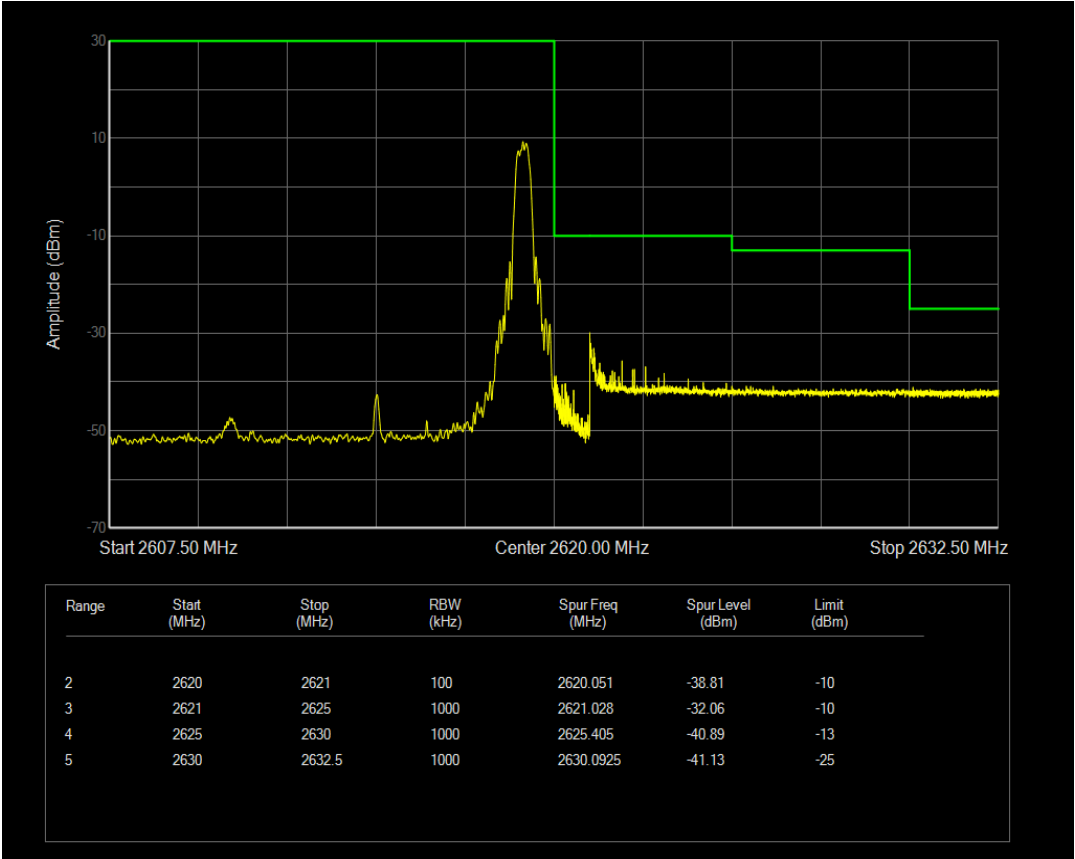
***n38 SCS=30kHz CP\_QPSK BW=10MHz Channel=515000 RB=1@0***



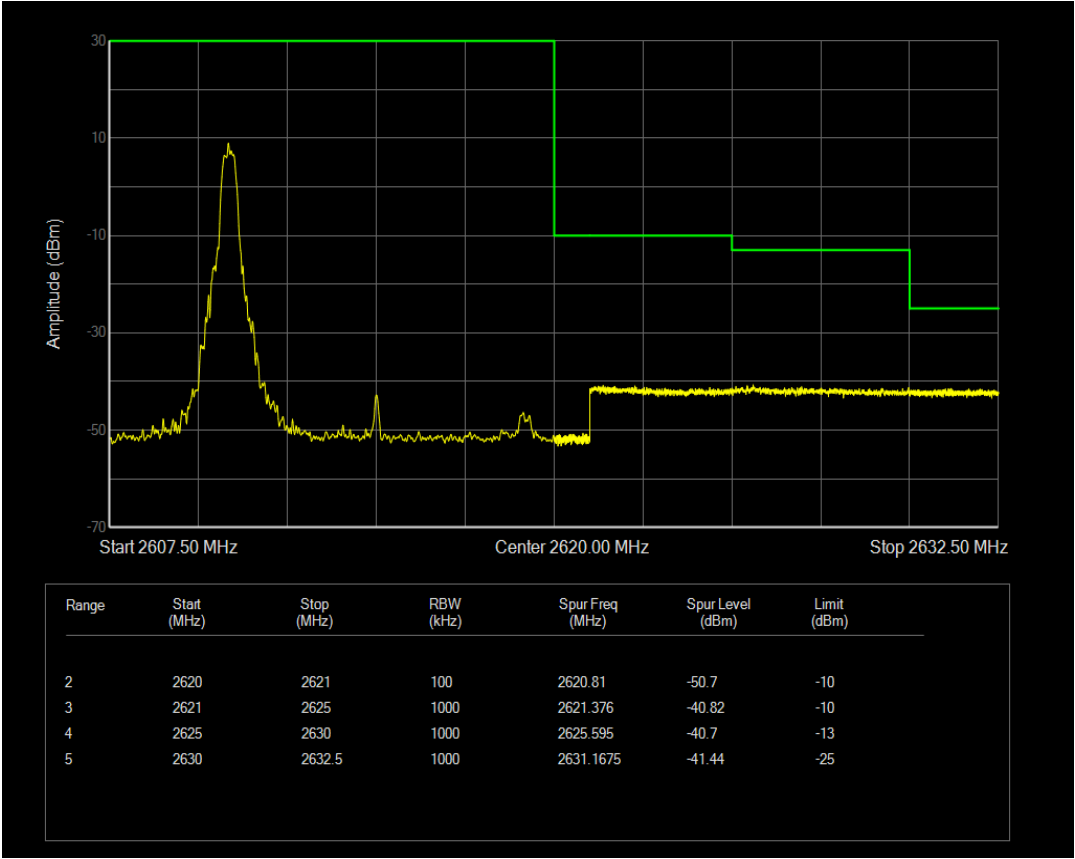
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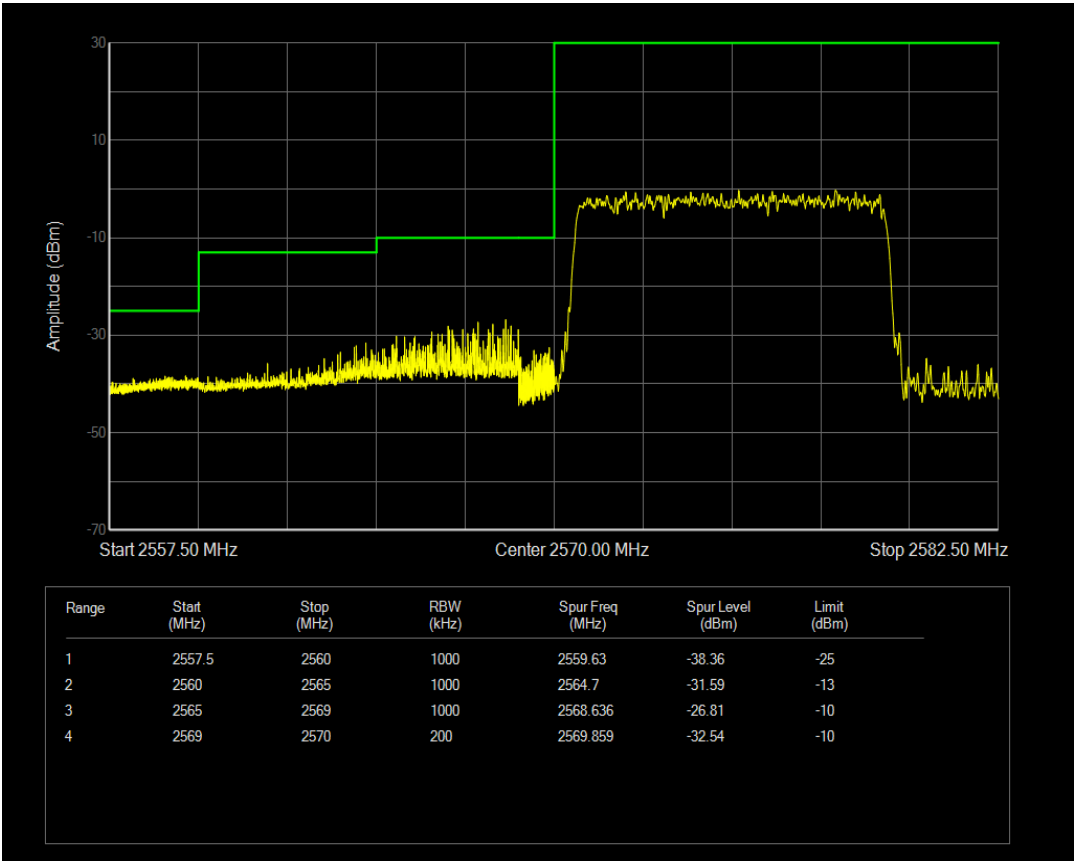
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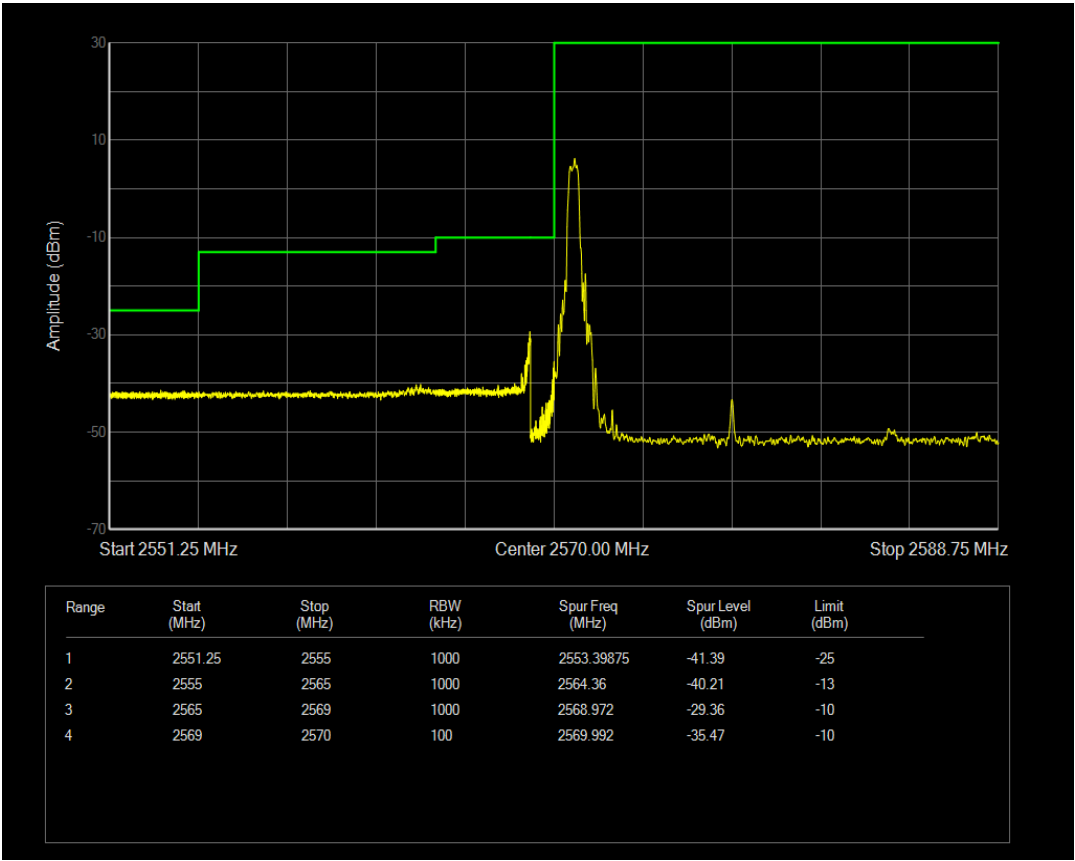
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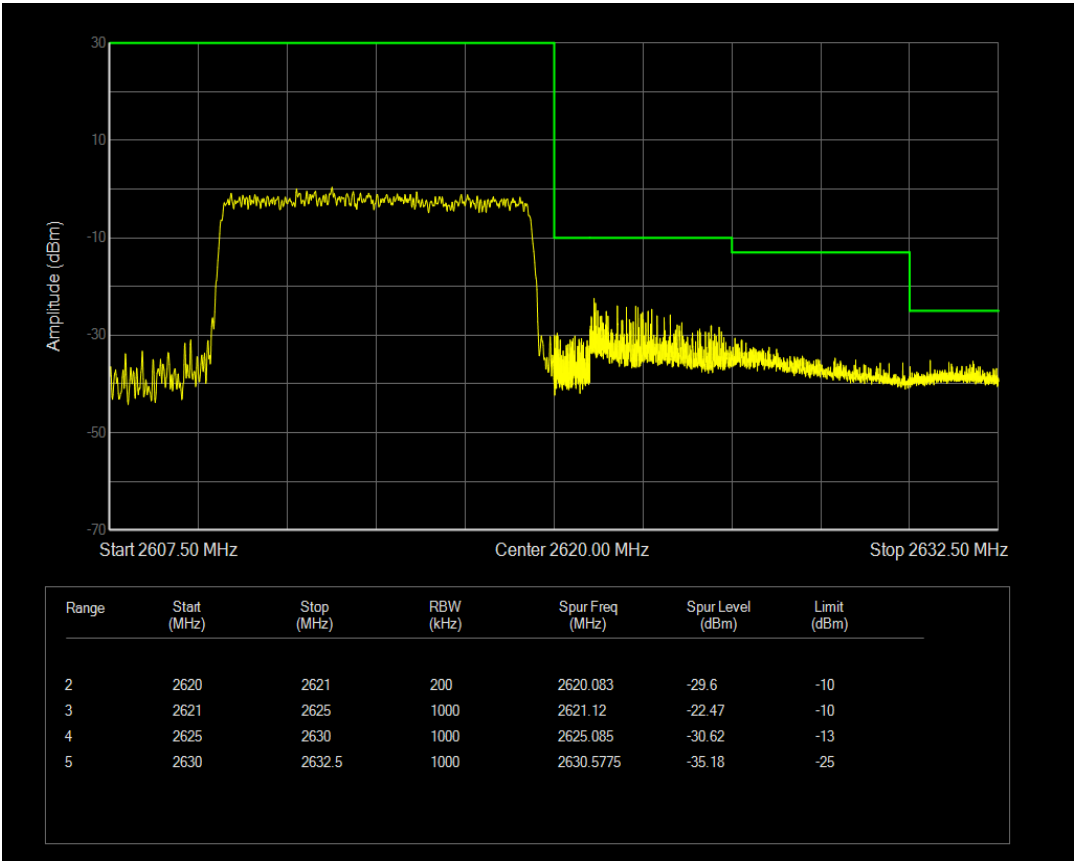
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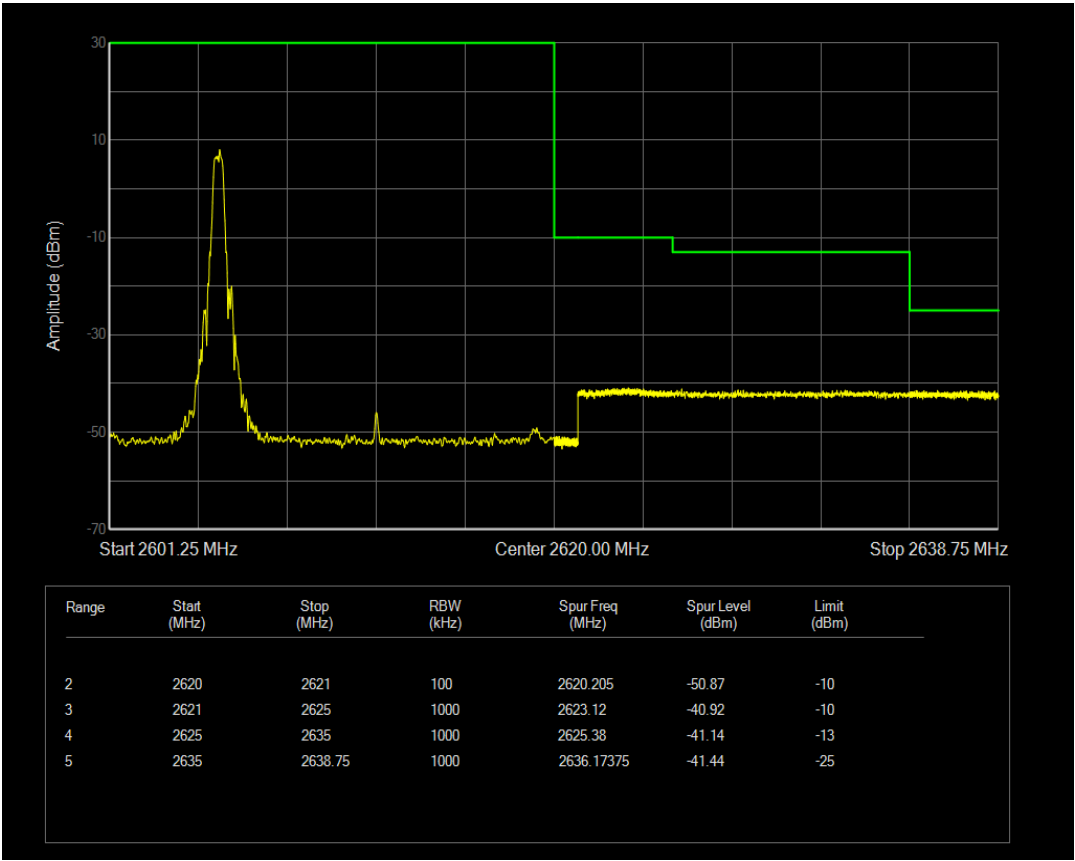
*n38 SCS=30kHz CP\_QPSK BW=15MHz Channel=515500 RB=1@0*



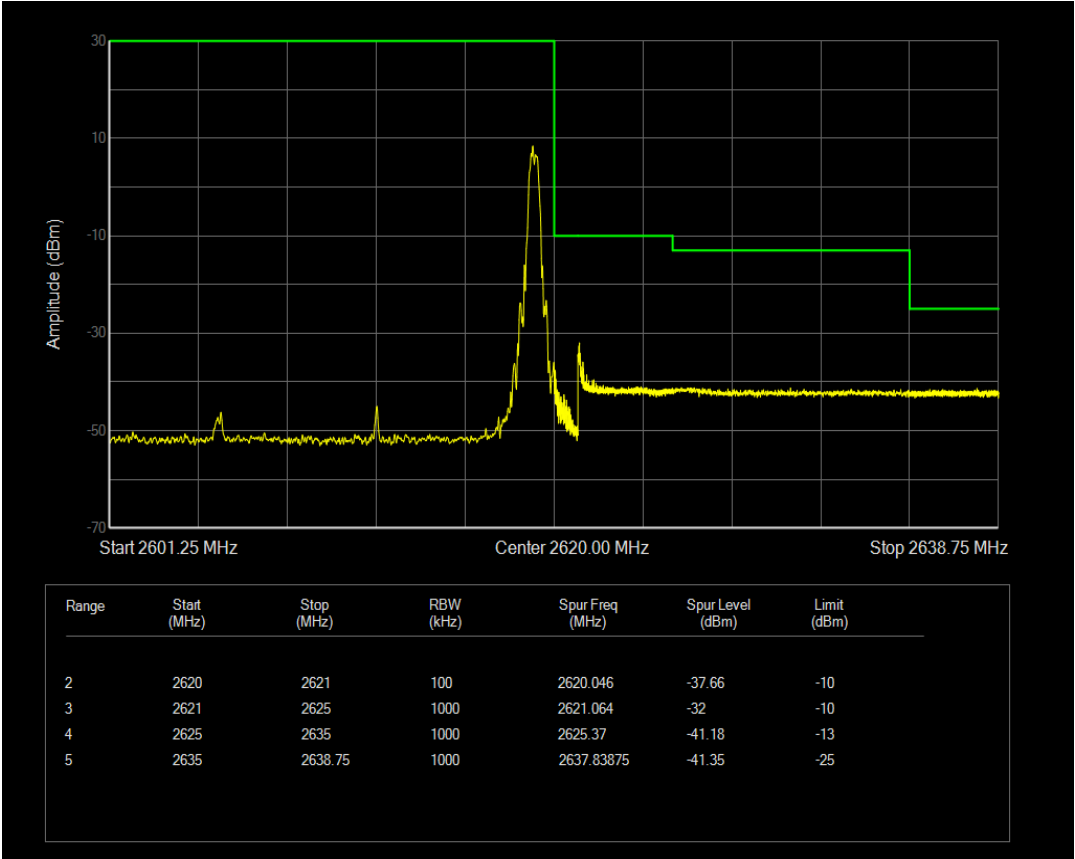
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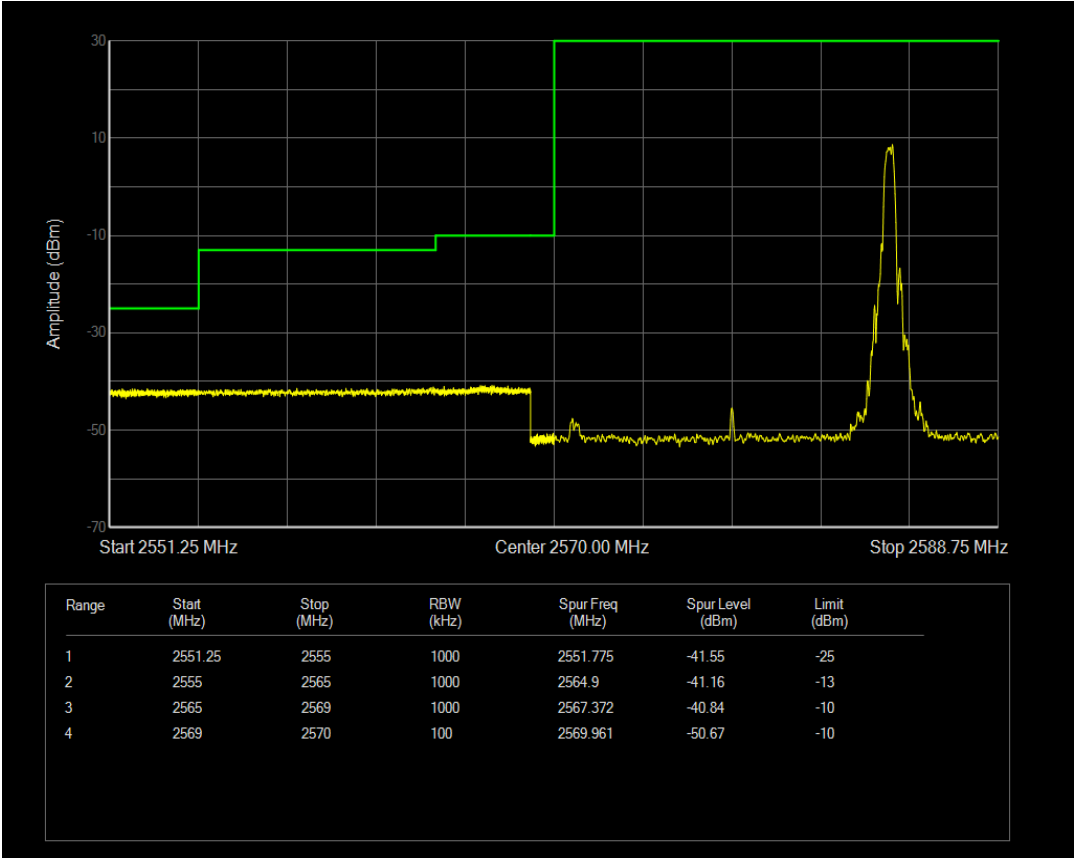
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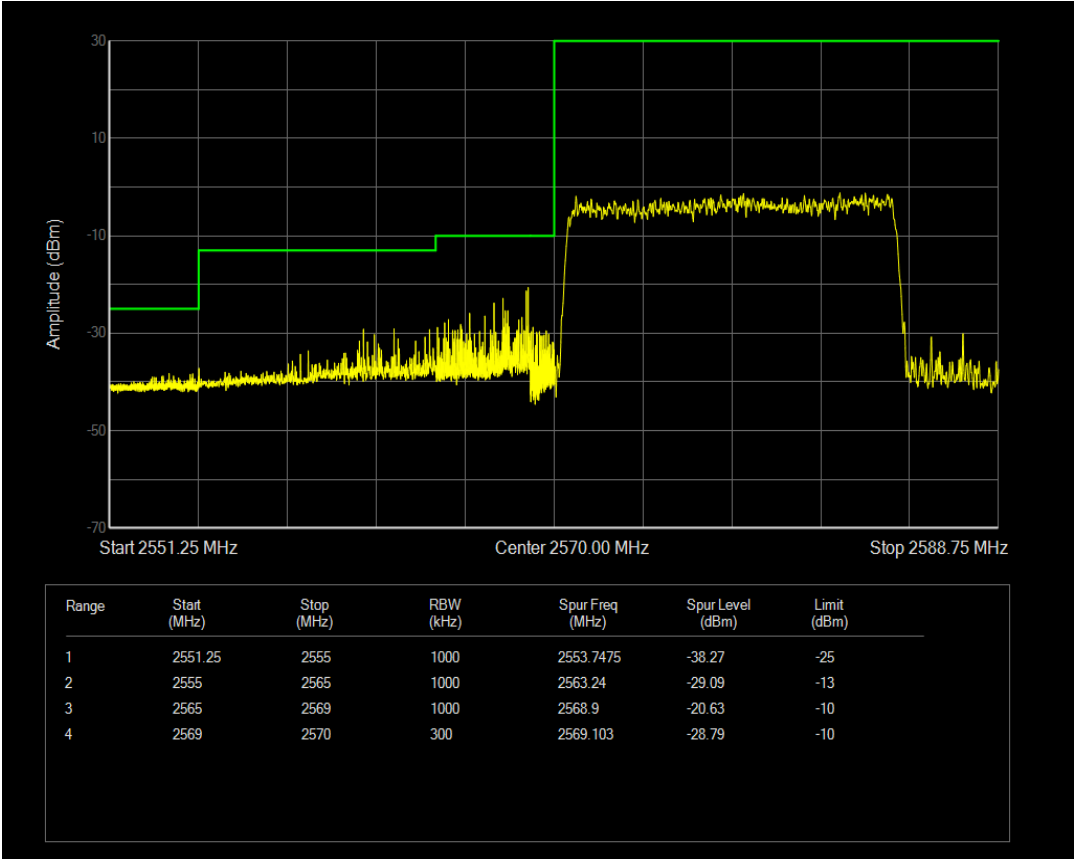
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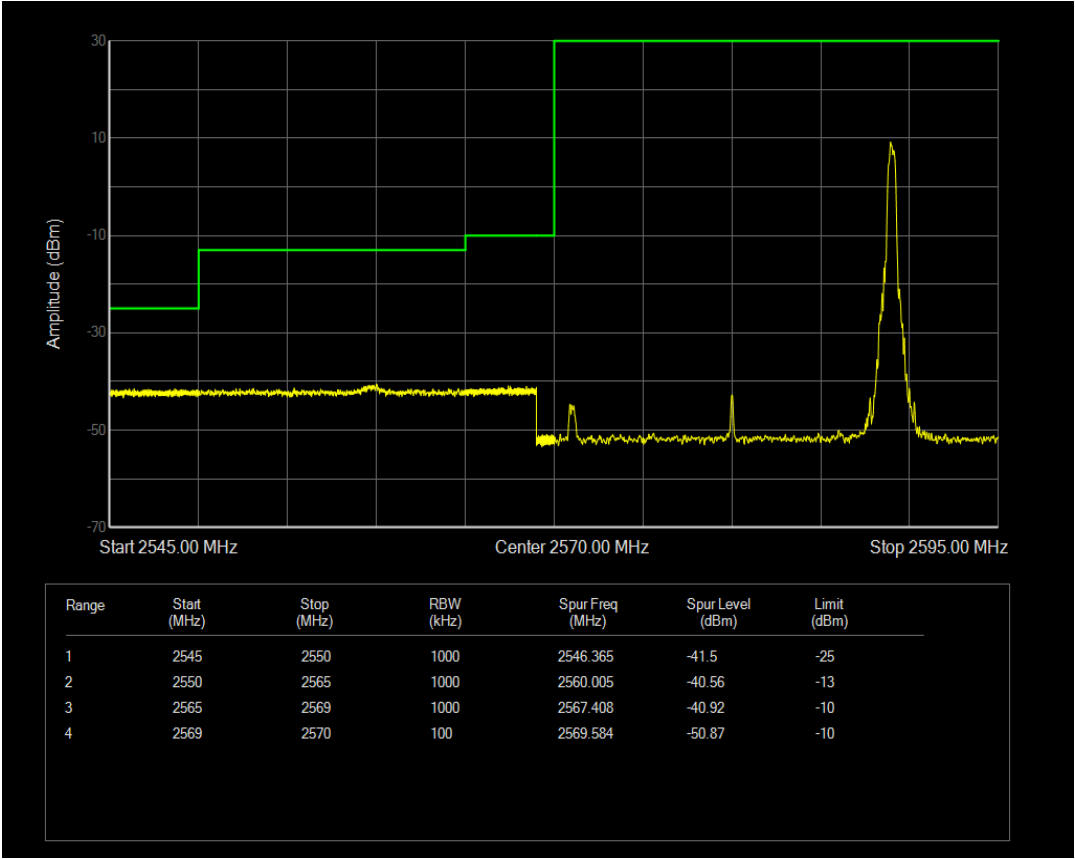
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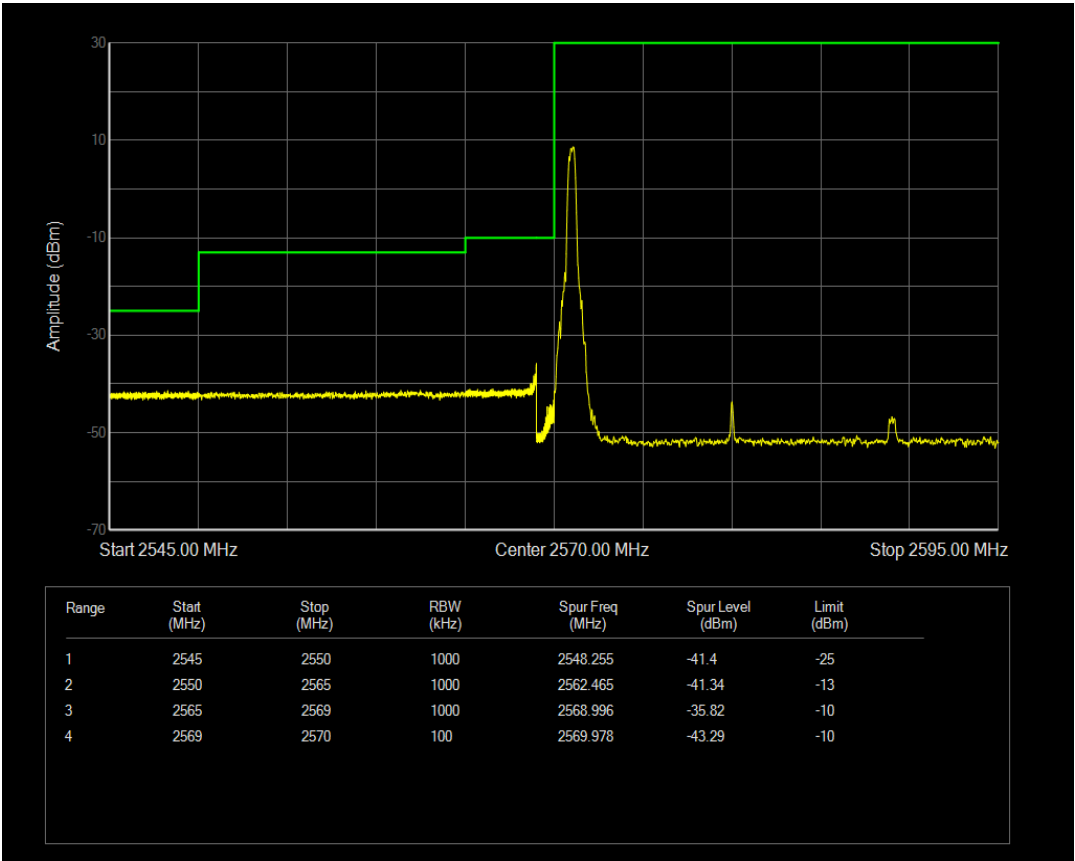
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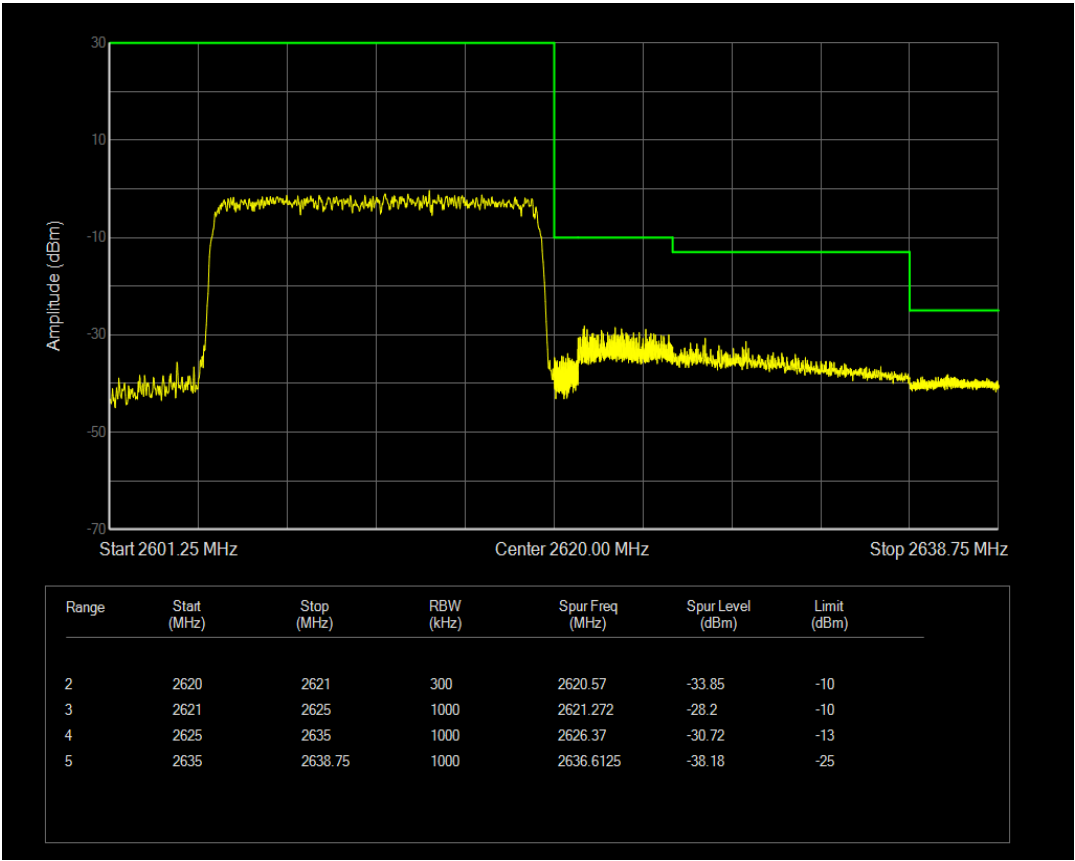
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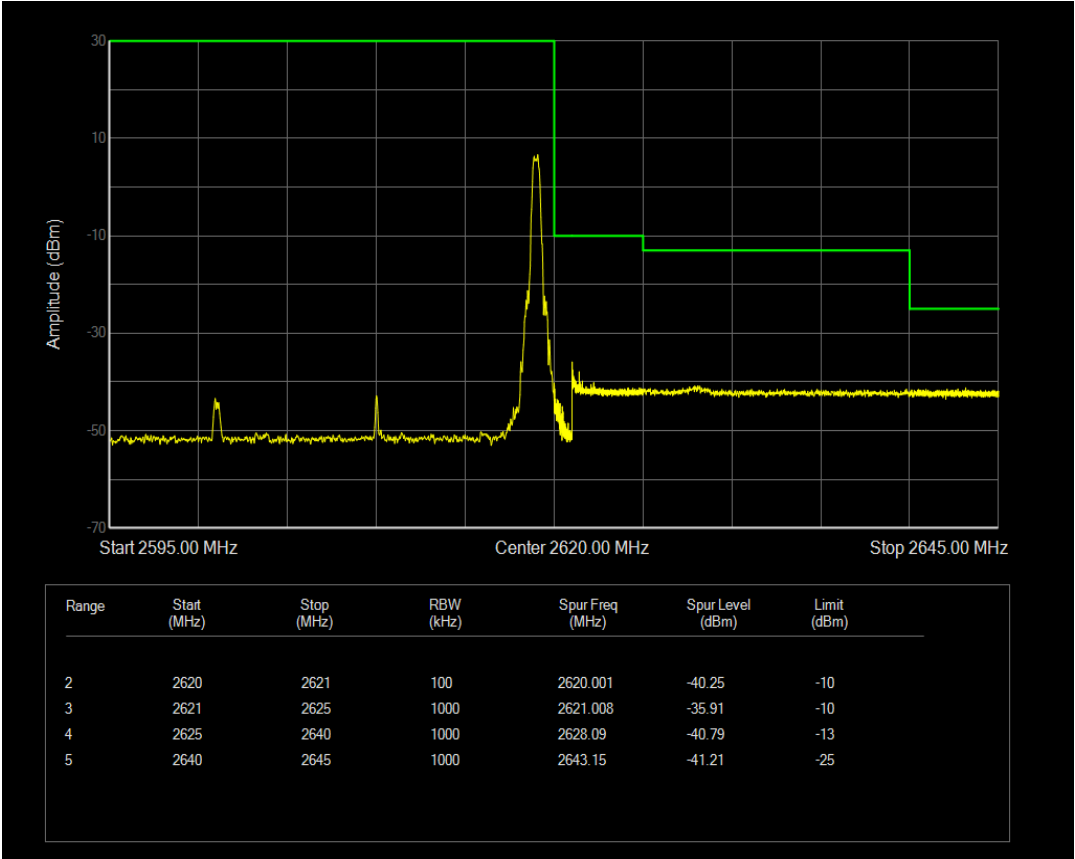
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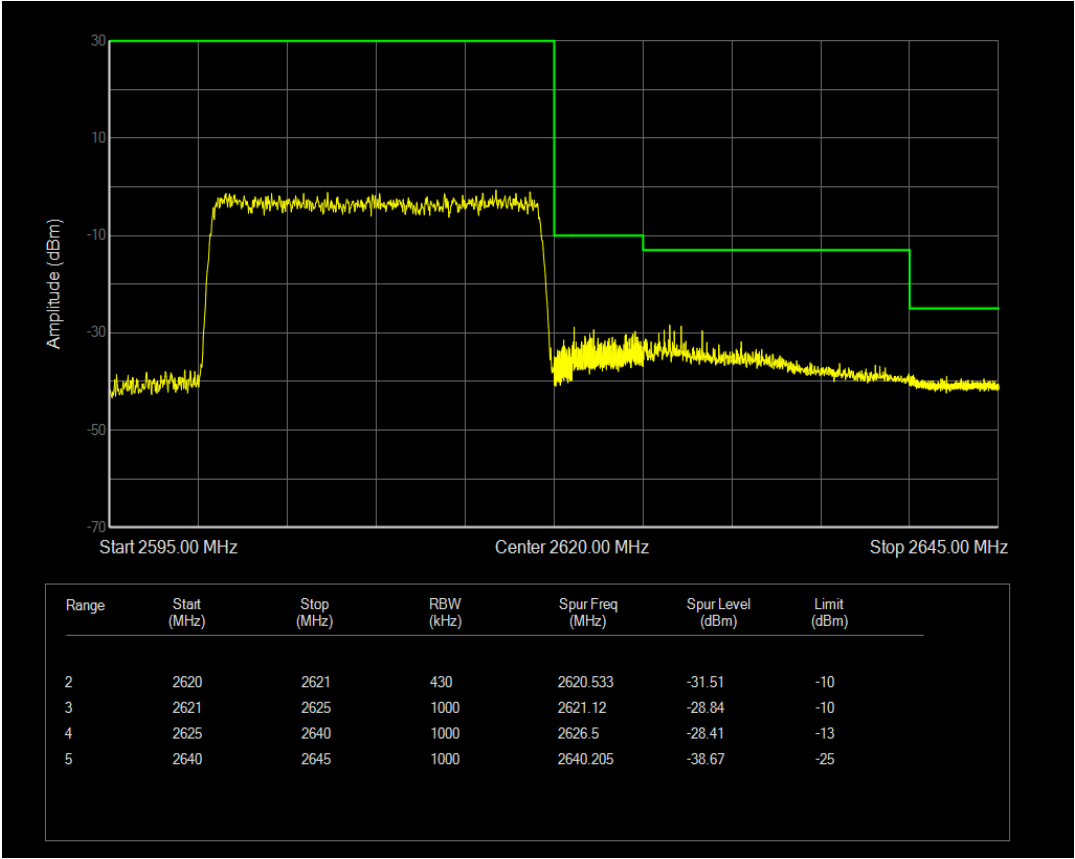
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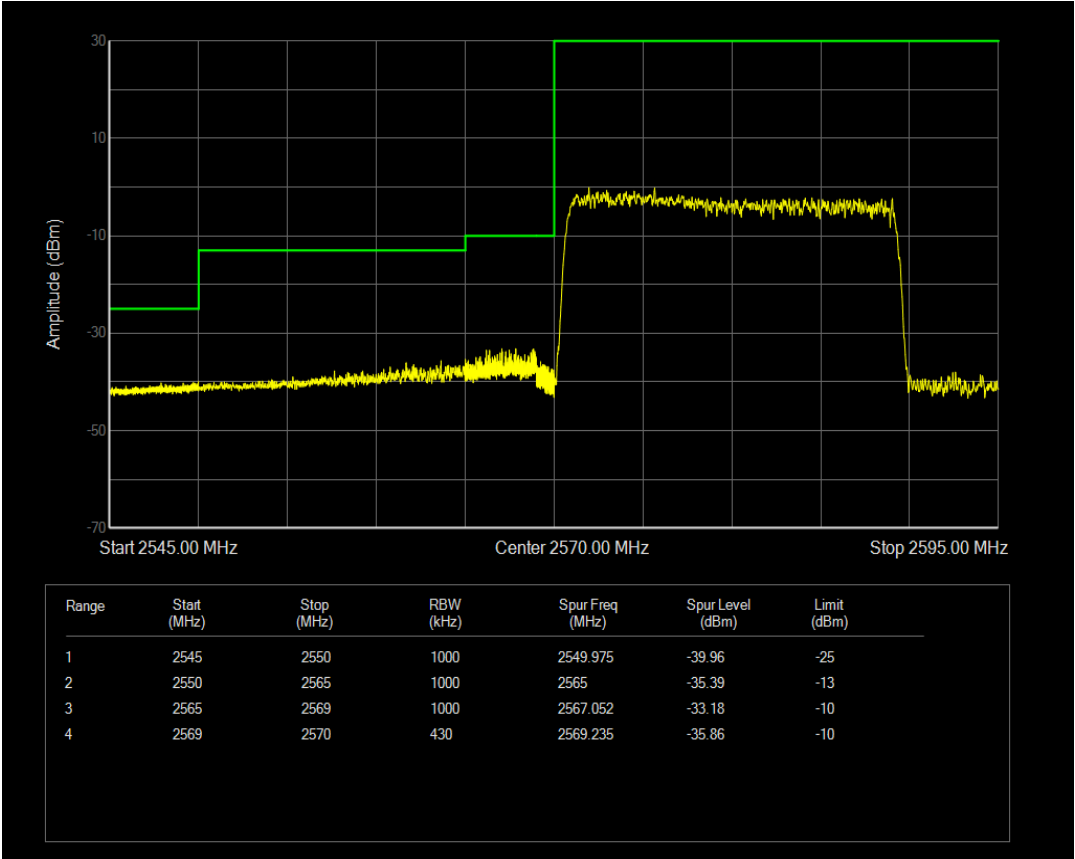
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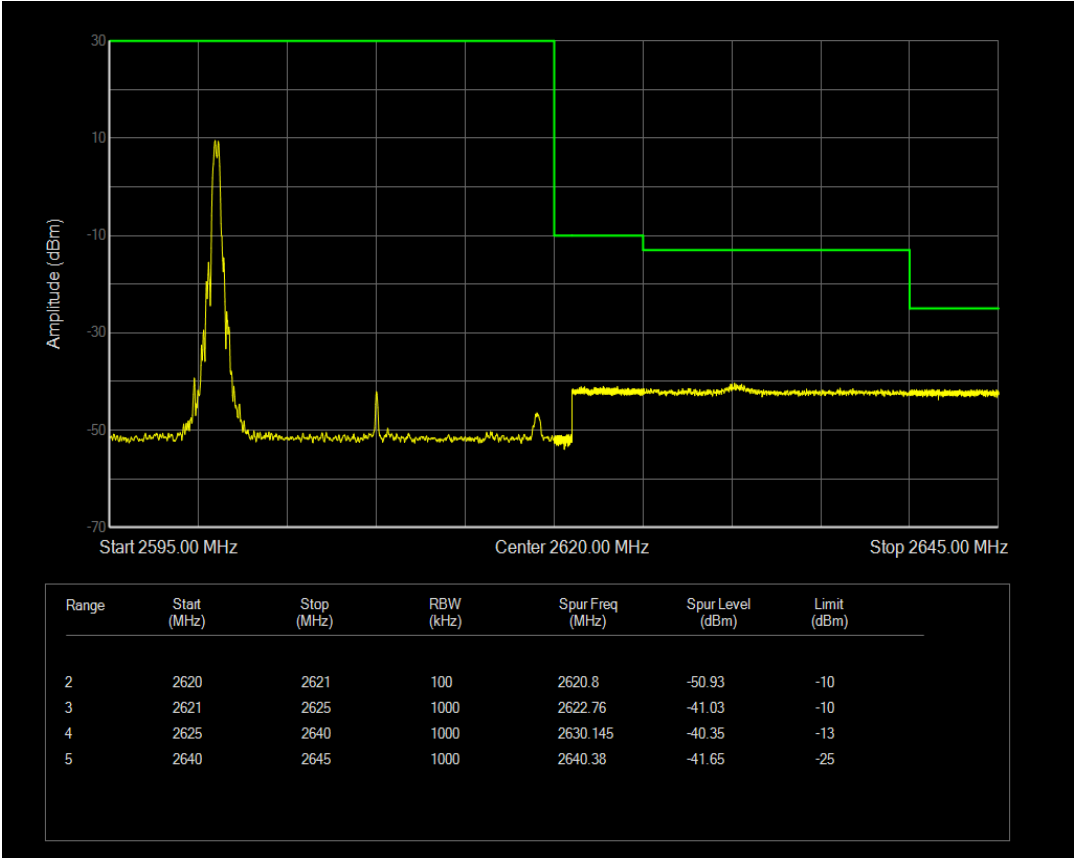
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*n38 SCS=30kHz CP\_QPSK BW=20MHz Channel=516000 RB=51@0*



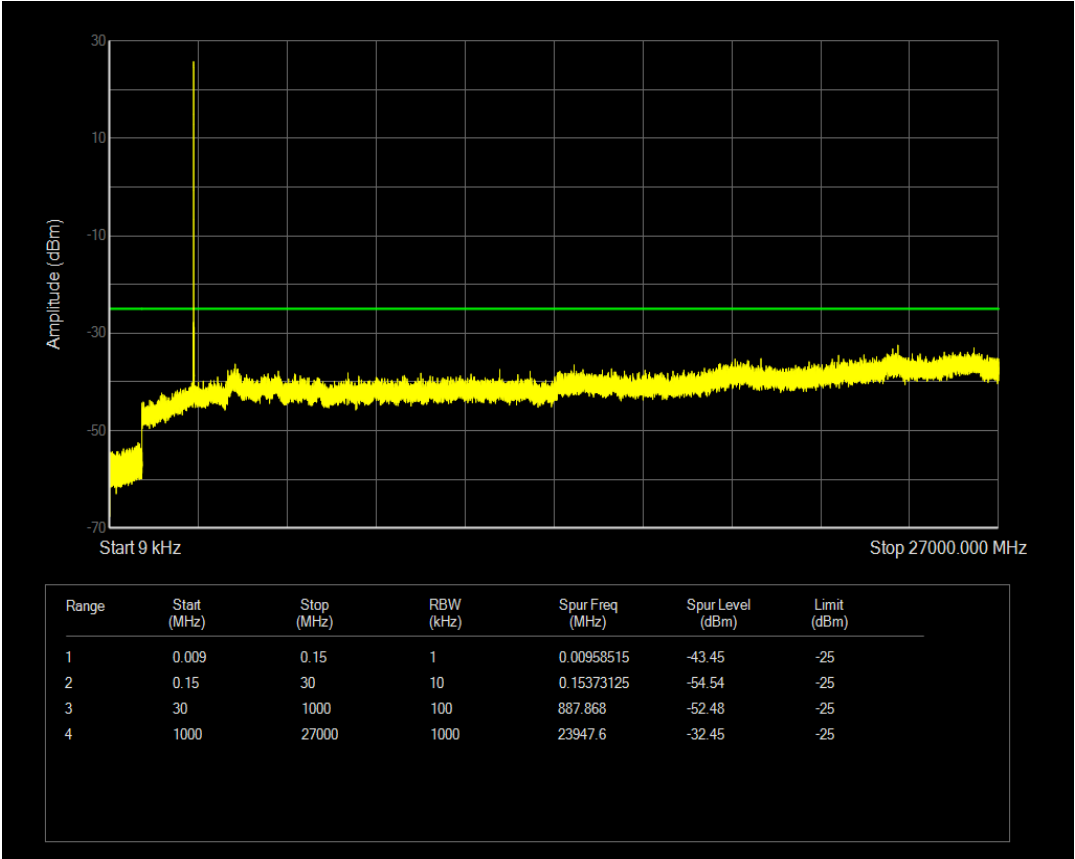
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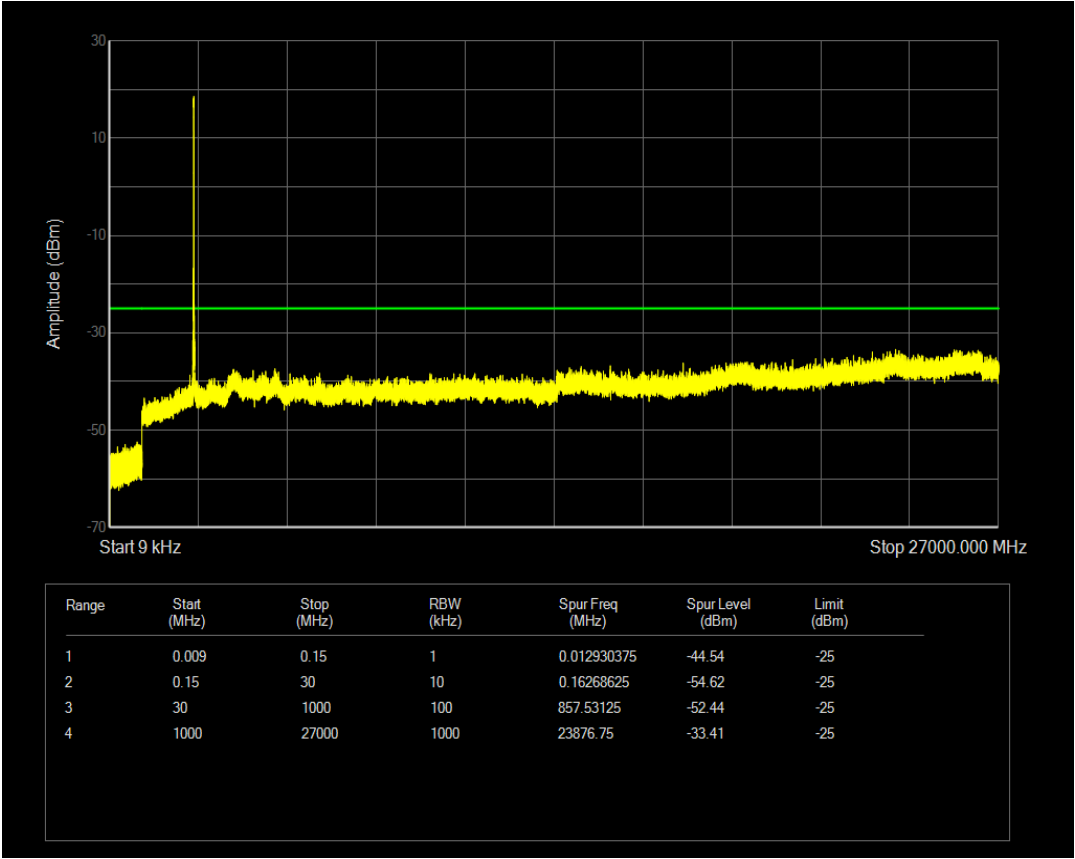
## 6 Out-of-band emissions for NR FR1

| <i>Band</i> | <i>SCS<br/>(kHz)</i> | <i>Bandwidth<br/>(MHz)</i> | <i>UL<br/>Channel</i> | <i>RB<br/>Allocation</i> | <i>Modulation</i> | <i>Spur<br/>Freq<br/>(MHz)</i> | <i>Spur<br/>Level<br/>(dBm)</i> | <i>Limit<br/>(dBm)</i> | <i>Verdict</i> |
|-------------|----------------------|----------------------------|-----------------------|--------------------------|-------------------|--------------------------------|---------------------------------|------------------------|----------------|
| n38         | 30                   | 10                         | 515000                | 24@0                     | CP_QPSK           | 23876.75                       | -33.41                          | -25                    | PASS           |
| n38         | 30                   | 10                         | 515000                | 1@0                      | CP_QPSK           | 23947.60                       | -32.45                          | -25                    | PASS           |
| n38         | 30                   | 10                         | 515000                | 1@23                     | CP_QPSK           | 5158.05                        | -30.78                          | -25                    | PASS           |
| n38         | 30                   | 10                         | 523000                | 24@0                     | CP_QPSK           | 23837.75                       | -32.88                          | -25                    | PASS           |
| n38         | 30                   | 10                         | 523000                | 1@0                      | CP_QPSK           | 26086.10                       | -33.08                          | -25                    | PASS           |
| n38         | 30                   | 10                         | 523000                | 1@23                     | CP_QPSK           | 5238.65                        | -32.51                          | -25                    | PASS           |
| n38         | 30                   | 15                         | 515500                | 38@0                     | CP_QPSK           | 26081.55                       | -32.99                          | -25                    | PASS           |
| n38         | 30                   | 15                         | 515500                | 1@0                      | CP_QPSK           | 25519.95                       | -33.10                          | -25                    | PASS           |
| n38         | 30                   | 15                         | 515500                | 1@37                     | CP_QPSK           | 26176.45                       | -33.09                          | -25                    | PASS           |
| n38         | 30                   | 15                         | 522500                | 38@0                     | CP_QPSK           | 25820.25                       | -33.20                          | -25                    | PASS           |
| n38         | 30                   | 15                         | 522500                | 1@0                      | CP_QPSK           | 25670.10                       | -32.66                          | -25                    | PASS           |
| n38         | 30                   | 15                         | 522500                | 1@37                     | CP_QPSK           | 5238.65                        | -33.08                          | -25                    | PASS           |
| n38         | 30                   | 20                         | 516000                | 51@0                     | CP_QPSK           | 26382.50                       | -33.27                          | -25                    | PASS           |
| n38         | 30                   | 20                         | 516000                | 1@0                      | CP_QPSK           | 25865.10                       | -33.08                          | -25                    | PASS           |
| n38         | 30                   | 20                         | 516000                | 1@50                     | CP_QPSK           | 5177.55                        | -31.00                          | -25                    | PASS           |
| n38         | 30                   | 20                         | 522000                | 51@0                     | CP_QPSK           | 25724.70                       | -32.65                          | -25                    | PASS           |
| n38         | 30                   | 20                         | 522000                | 1@0                      | CP_QPSK           | 5202.25                        | -30.88                          | -25                    | PASS           |
| n38         | 30                   | 20                         | 522000                | 1@50                     | CP_QPSK           | 26099.75                       | -32.22                          | -25                    | PASS           |

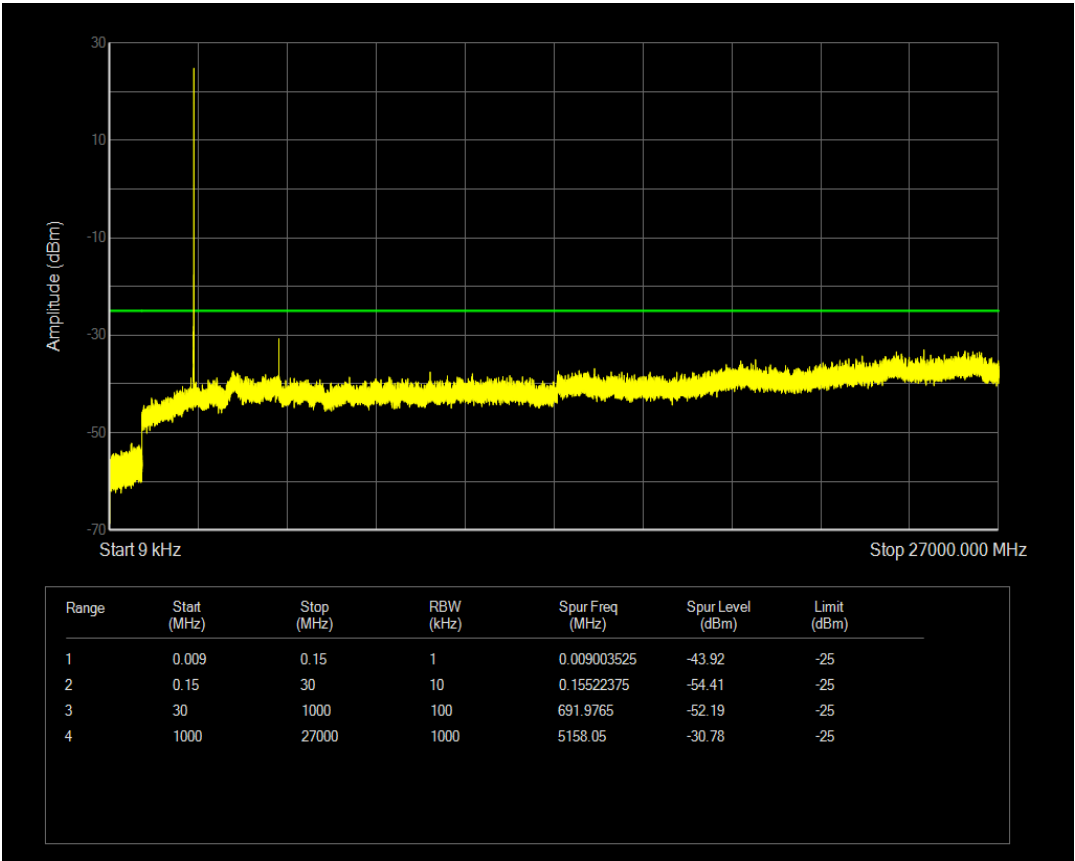
***n38 SCS=30kHz CP\_QPSK BW=10MHz Channel=515000 RB=1@0***



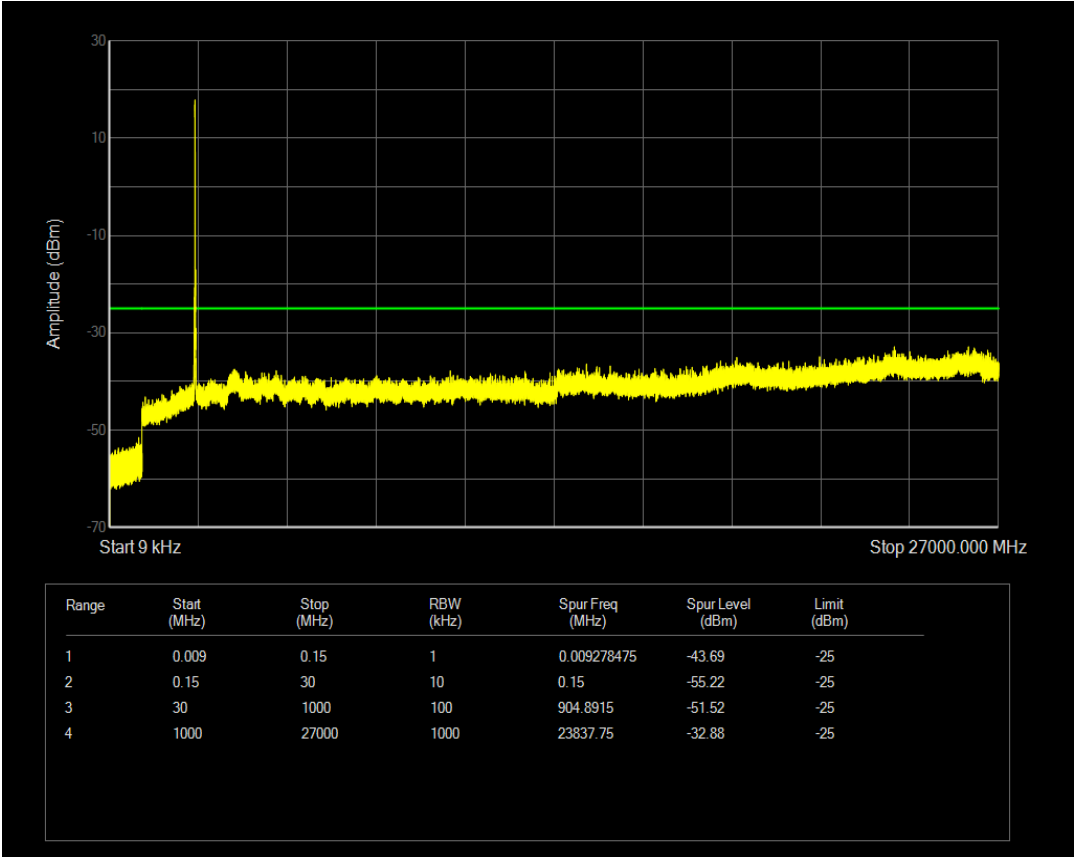
*n38 SCS=30kHz CP\_QPSK BW=10MHz Channel=515000 RB=24@0*



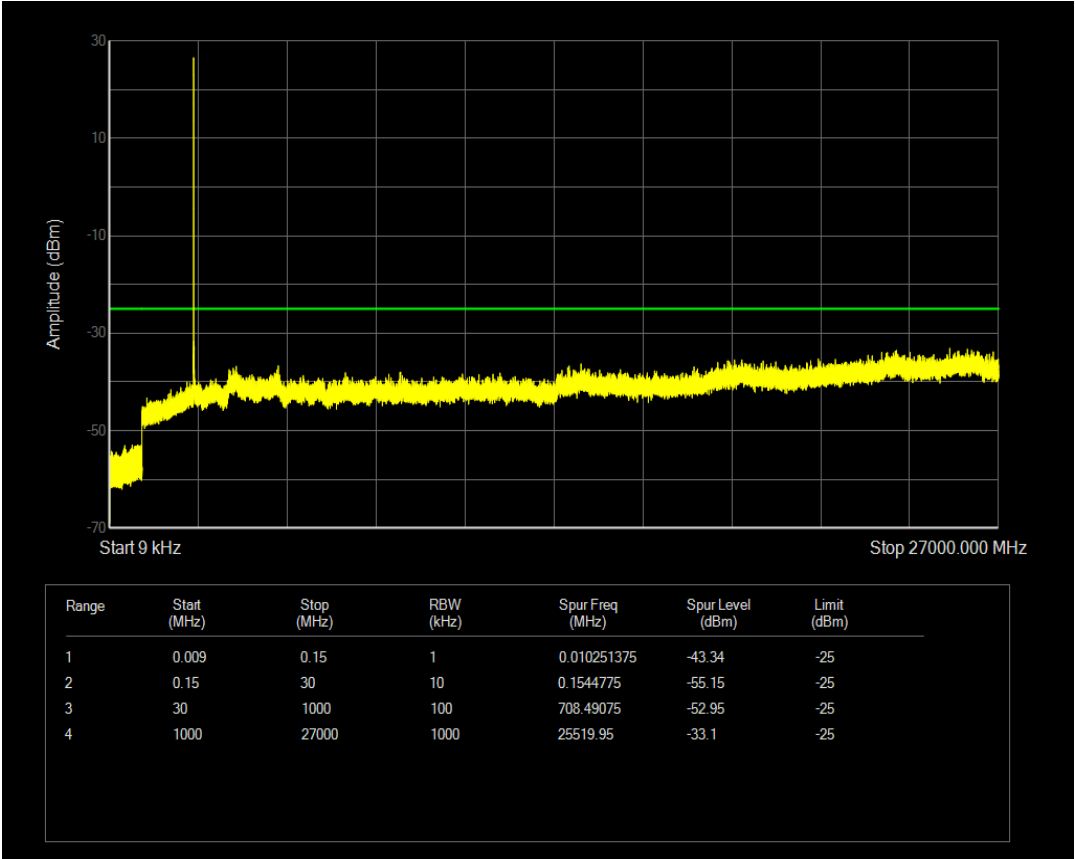
*n38 SCS=30kHz CP\_QPSK BW=10MHz Channel=515000 RB=1@23*



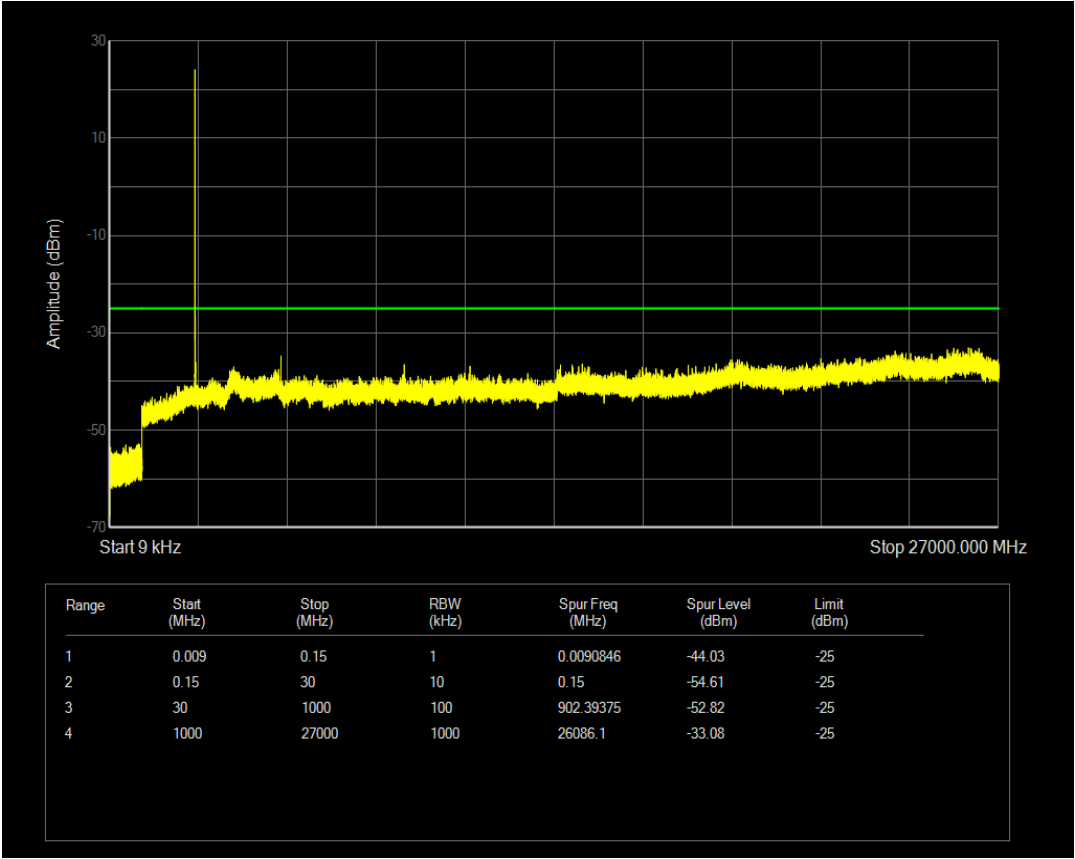
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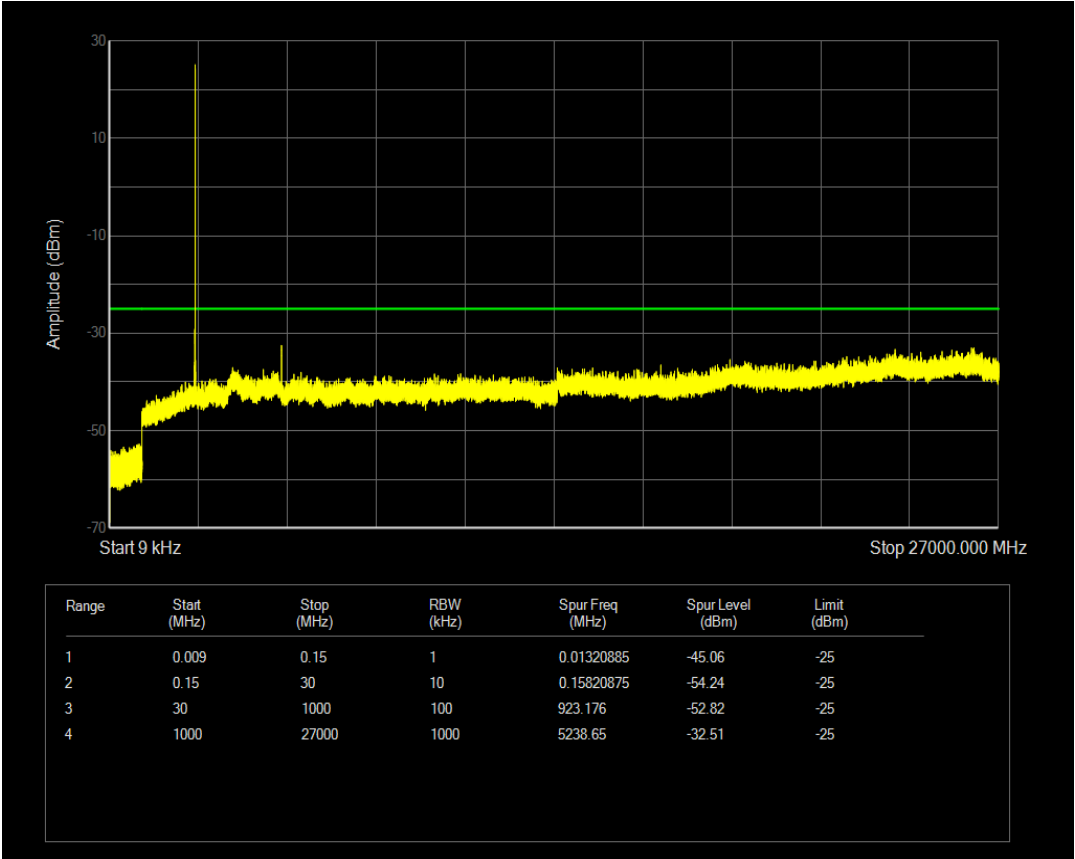
*n38 SCS=30kHz CP\_QPSK BW=15MHz Channel=515500 RB=1@0*



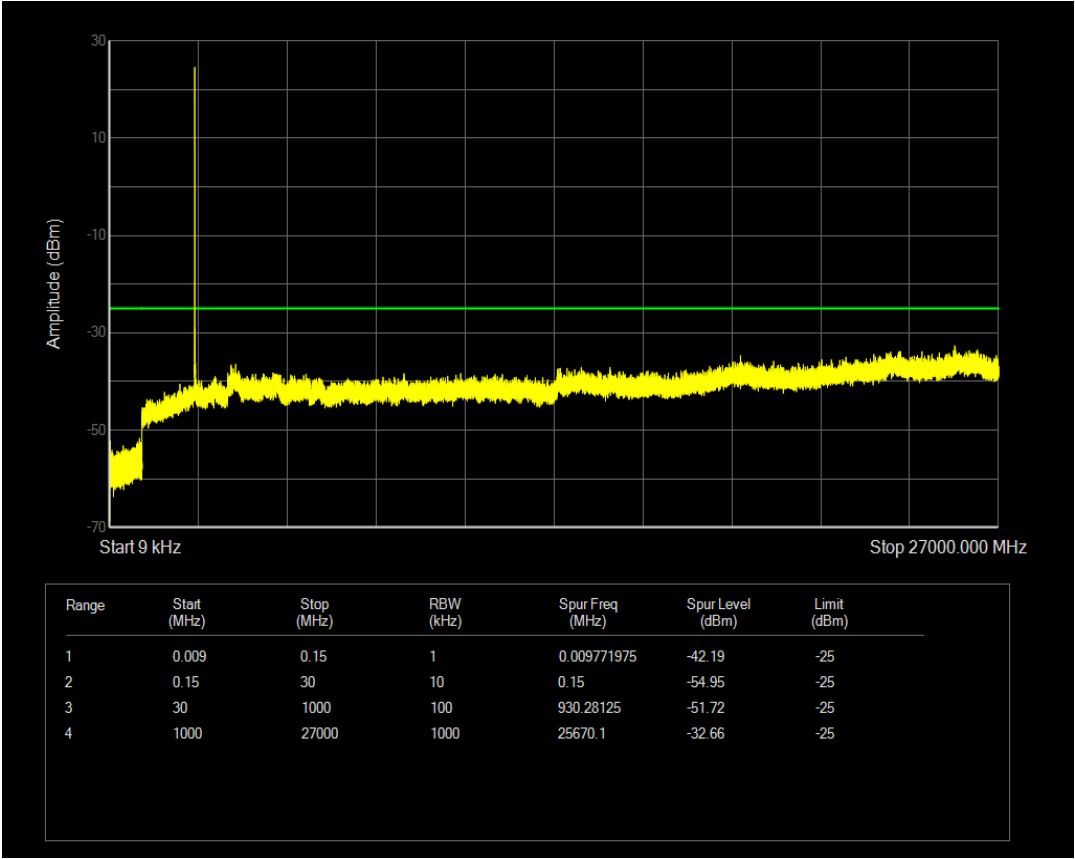
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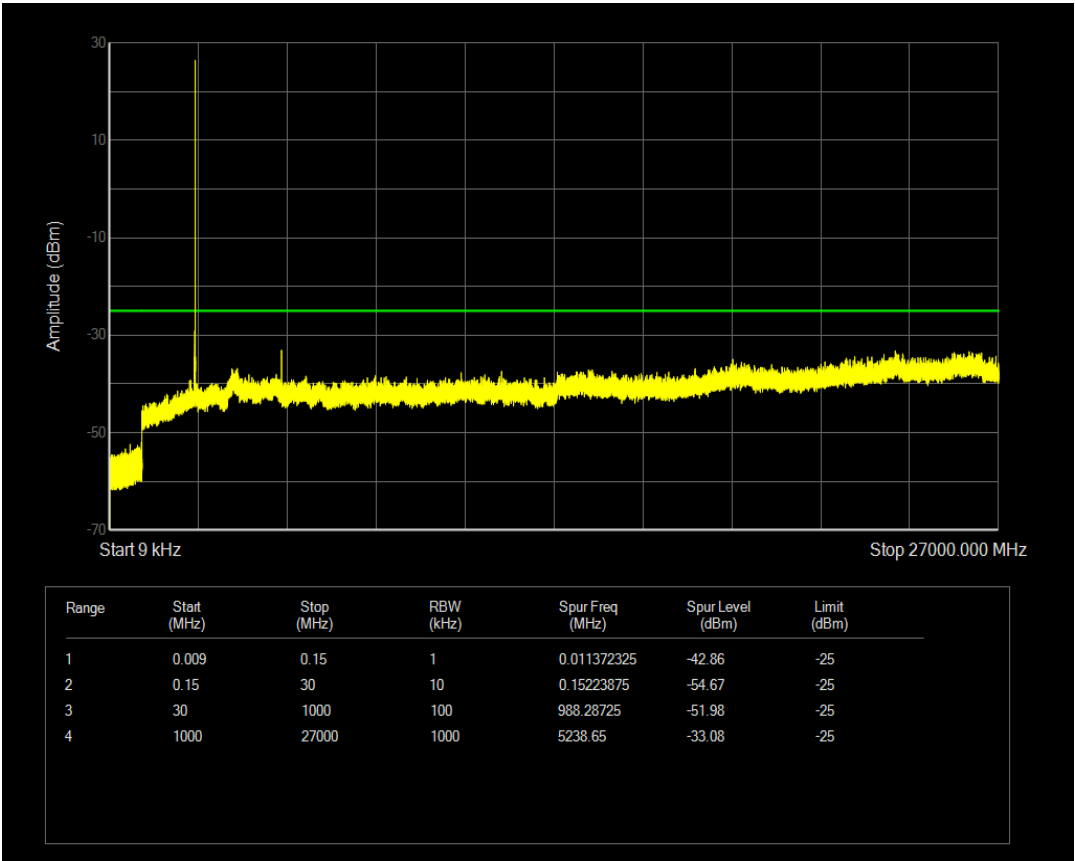
*n38 SCS=30kHz CP\_QPSK BW=10MHz Channel=523000 RB=1@23*



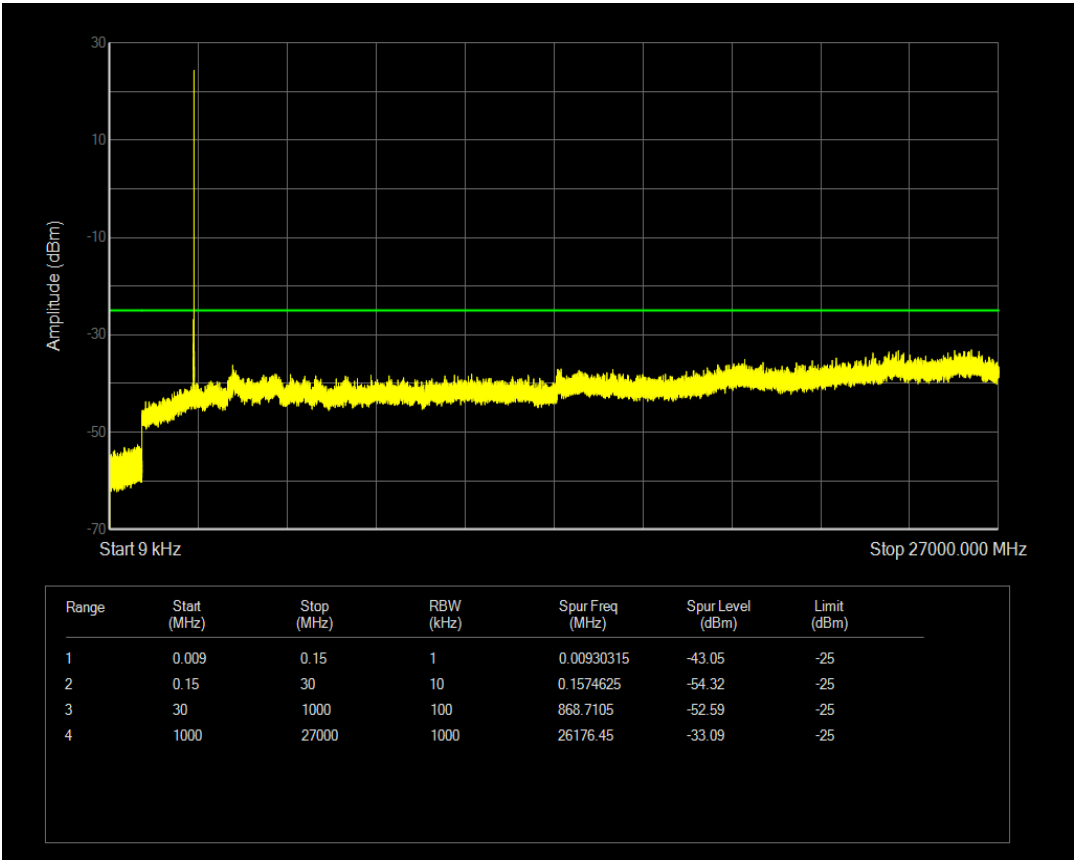
*n38 SCS=30kHz CP\_QPSK BW=15MHz Channel=522500 RB=1@0*



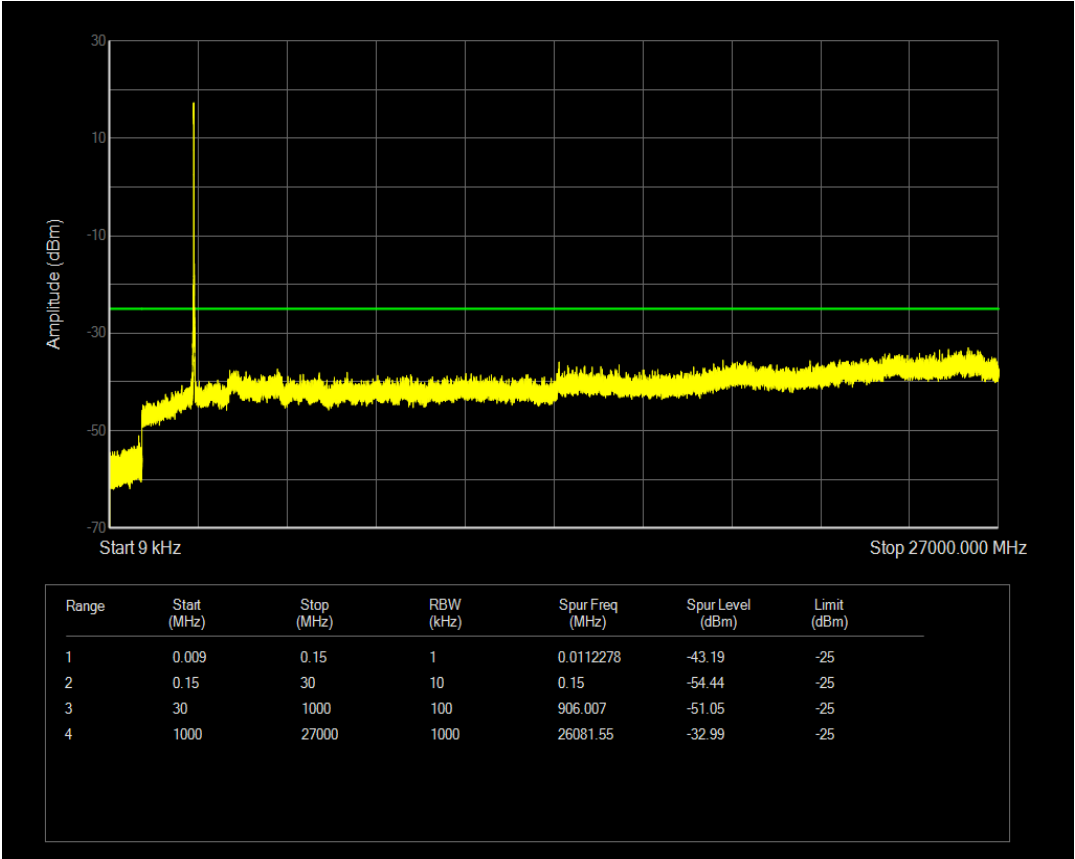
*n38 SCS=30kHz CP\_QPSK BW=15MHz Channel=522500 RB=1@37*



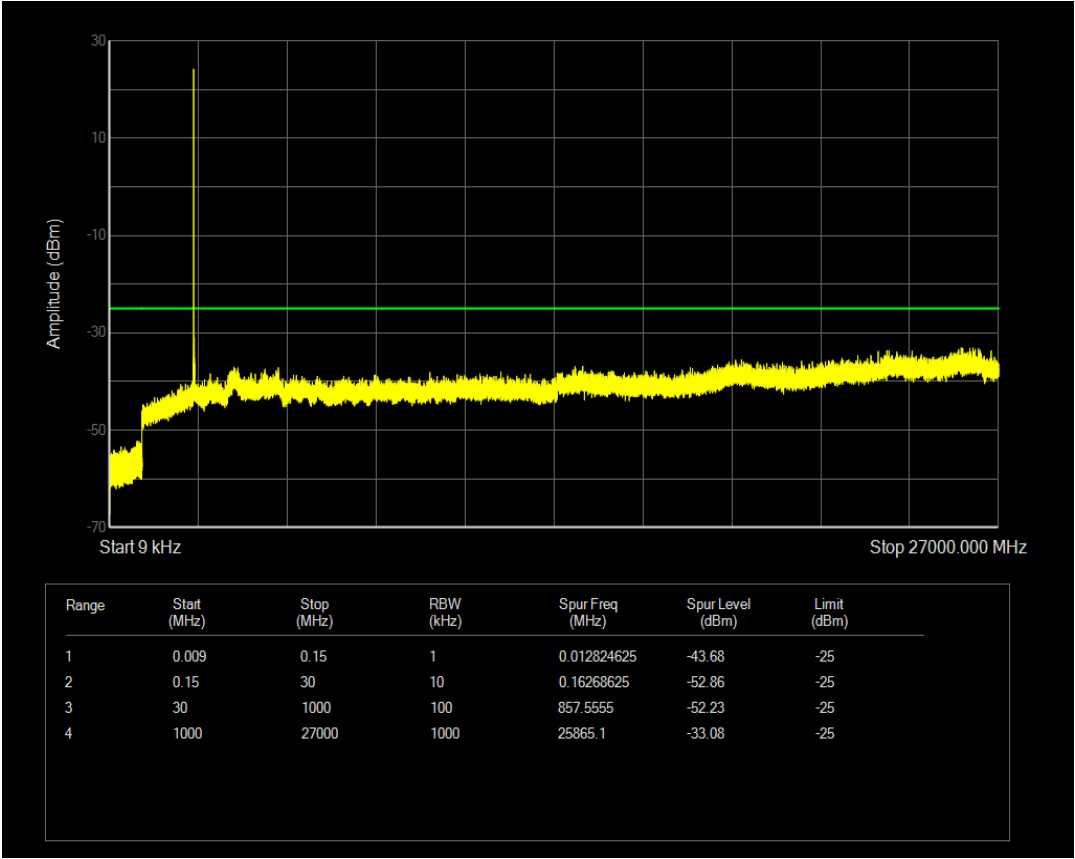
*n38 SCS=30kHz CP\_QPSK BW=15MHz Channel=515500 RB=1@37*



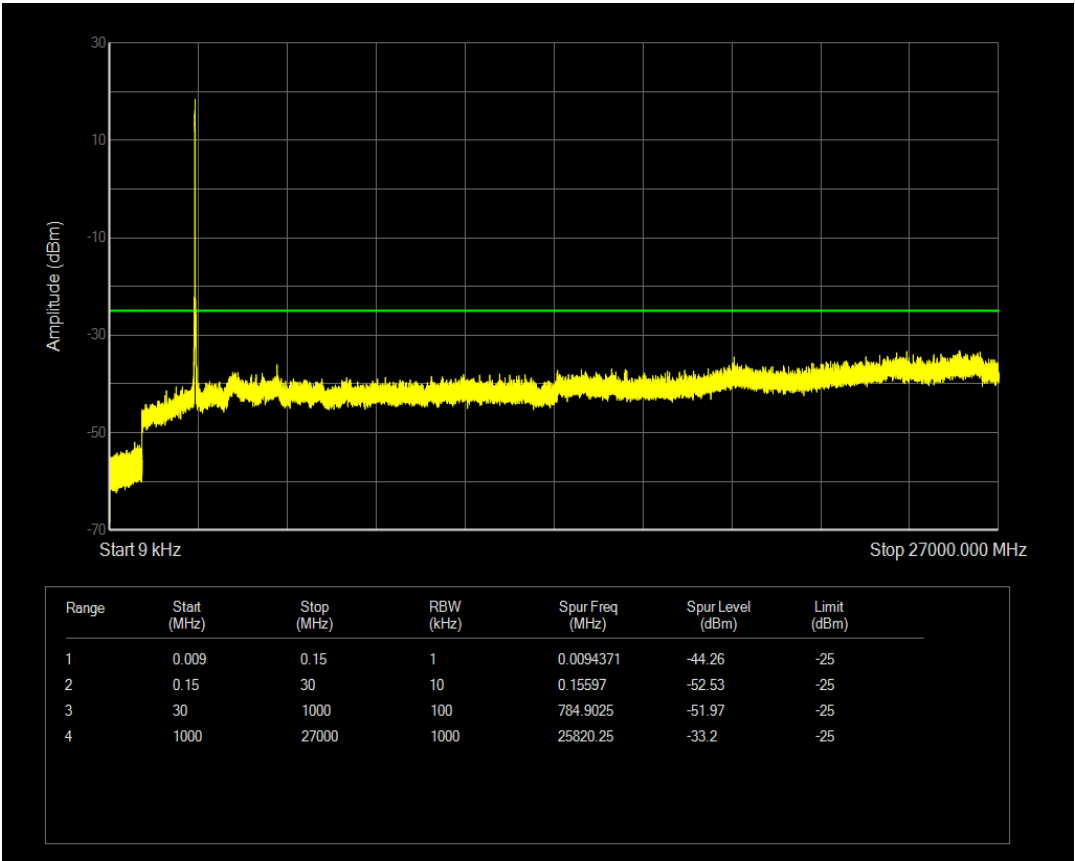
*n38 SCS=30kHz CP\_QPSK BW=15MHz Channel=515500 RB=38@0*



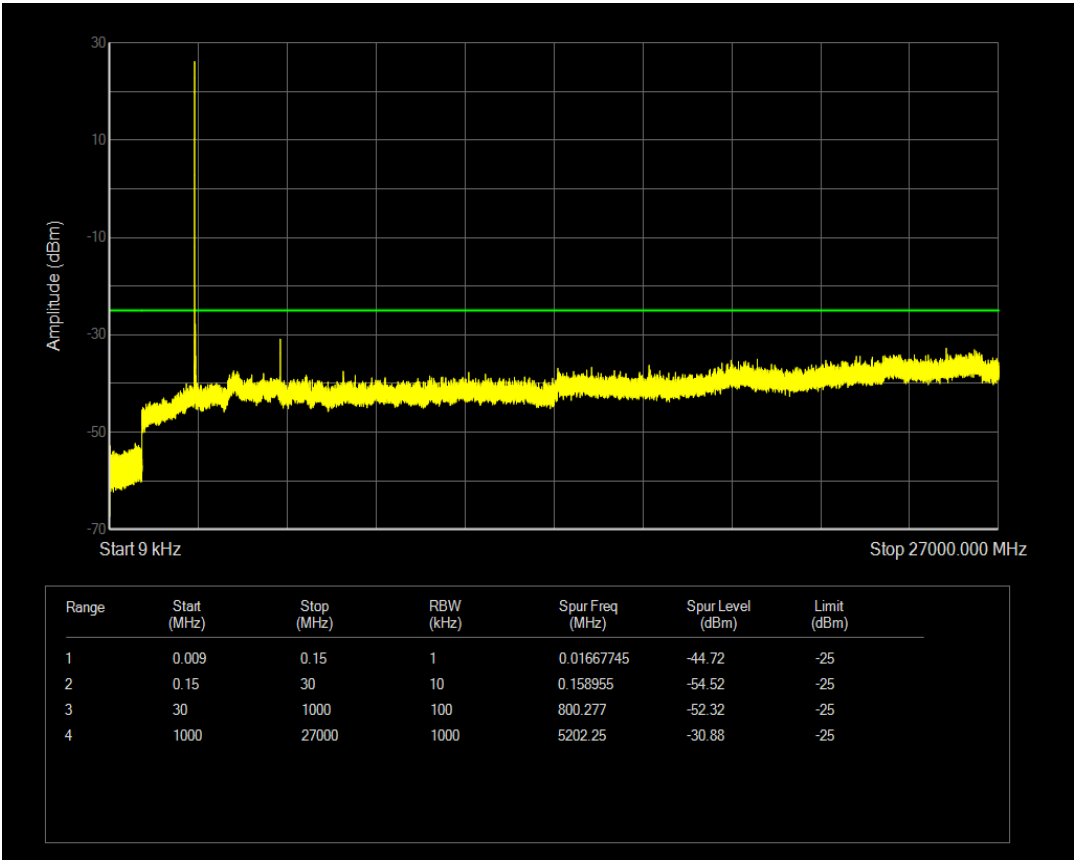
*n38 SCS=30kHz CP\_QPSK BW=20MHz Channel=516000 RB=1@0*



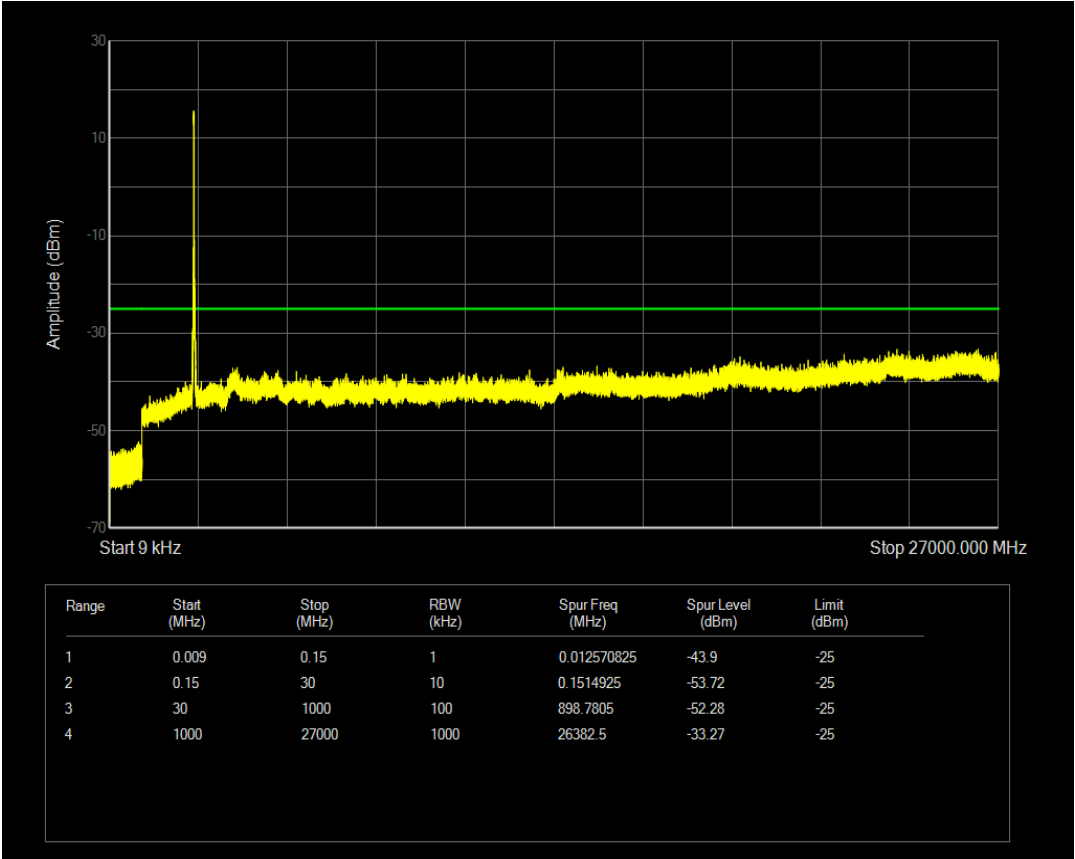
*n38 SCS=30kHz CP\_QPSK BW=15MHz Channel=522500 RB=38@0*



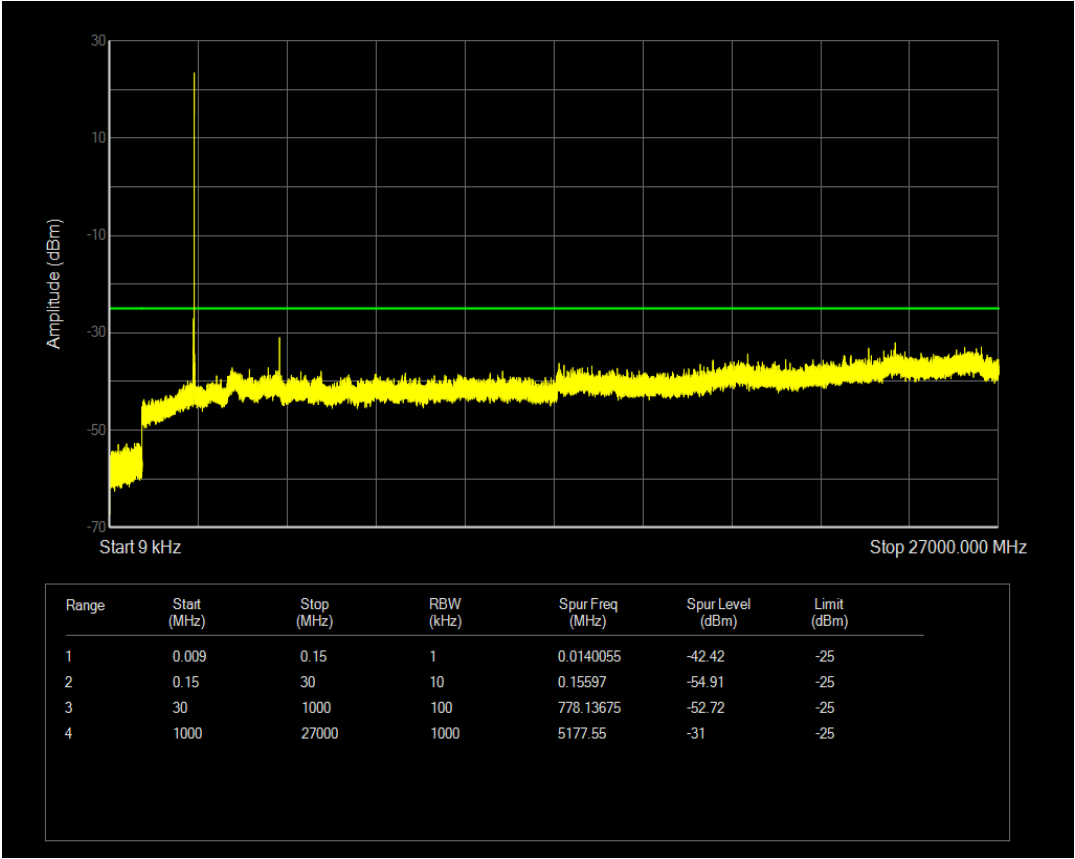
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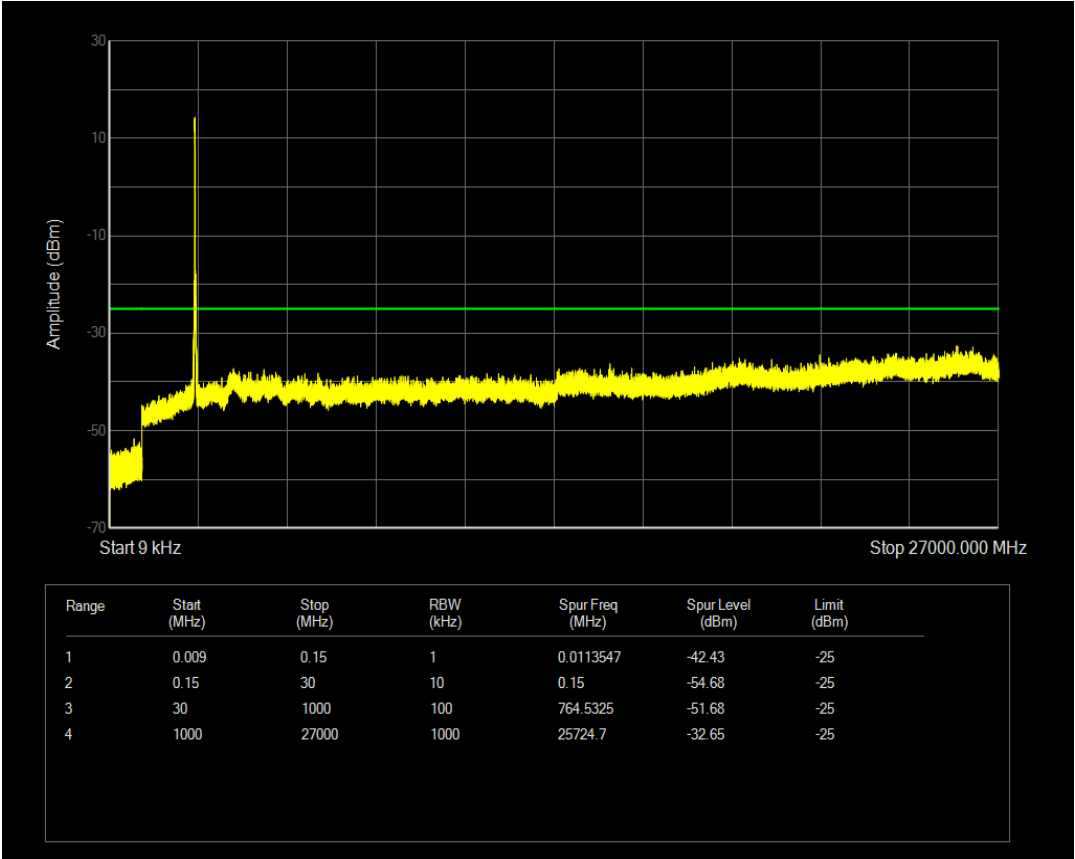
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*n38 SCS=30kHz CP\_QPSK BW=20MHz Channel=516000 RB=1@50*



*n38 SCS=30kHz CP\_QPSK BW=20MHz Channel=522000 RB=51@0*



*n38 SCS=30kHz CP\_QPSK BW=20MHz Channel=522000 RB=1@50*

