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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   | 24.92                                    | -3.3                     | 21.62         | 33.01         | Pass    |
| n38  | 30           | 10                 | 515000        | 24@0             | DFT_QPSK   | 23.99                                    | -3.3                     | 20.69         | 33.01         | Pass    |
| n38  | 30           | 10                 | 515000        | 12@6             | DFT_QPSK   | 25.15                                    | -3.3                     | 21.85         | 33.01         | Pass    |
| n38  | 30           | 10                 | 515000        | 1@1              | DFT_QPSK   | 25.48                                    | -3.3                     | 22.18         | 33.01         | Pass    |
| n38  | 30           | 10                 | 515000        | 1@22             | DFT_QPSK   | 25.7                                     | -3.3                     | 22.40         | 33.01         | Pass    |
| n38  | 30           | 10                 | 515000        | 1@1              | DFT_QAM16  | 24.05                                    | -3.3                     | 20.75         | 33.01         | Pass    |
| n38  | 30           | 10                 | 515000        | 1@1              | DFT_QAM64  | 22.4                                     | -3.3                     | 19.10         | 33.01         | Pass    |
| n38  | 30           | 10                 | 515000        | 1@1              | DFT_QAM256 | 20.65                                    | -3.3                     | 17.35         | 33.01         | Pass    |
| n38  | 30           | 10                 | 515000        | 1@1              | CP_QPSK    | 24.24                                    | -3.3                     | 20.94         | 33.01         | Pass    |
| n38  | 30           | 10                 | 519000        | 1@1              | DFT_BPSK   | 25.22                                    | -3.3                     | 21.92         | 33.01         | Pass    |
| n38  | 30           | 10                 | 519000        | 24@0             | DFT_QPSK   | 24.15                                    | -3.3                     | 20.85         | 33.01         | Pass    |
| n38  | 30           | 10                 | 519000        | 12@6             | DFT_QPSK   | 25.24                                    | -3.3                     | 21.94         | 33.01         | Pass    |
| n38  | 30           | 10                 | 519000        | 1@1              | DFT_QPSK   | 25.02                                    | -3.3                     | 21.72         | 33.01         | Pass    |
| n38  | 30           | 10                 | 519000        | 1@22             | DFT_QPSK   | 24.97                                    | -3.3                     | 21.67         | 33.01         | Pass    |
| n38  | 30           | 10                 | 519000        | 1@1              | DFT_QAM16  | 23.9                                     | -3.3                     | 20.60         | 33.01         | Pass    |
| n38  | 30           | 10                 | 519000        | 1@1              | DFT_QAM64  | 22.8                                     | -3.3                     | 19.50         | 33.01         | Pass    |
| n38  | 30           | 10                 | 519000        | 1@1              | DFT_QAM256 | 20.65                                    | -3.3                     | 17.35         | 33.01         | Pass    |
| n38  | 30           | 10                 | 519000        | 1@1              | CP_QPSK    | 24.14                                    | -3.3                     | 20.84         | 33.01         | Pass    |
| n38  | 30           | 10                 | 523000        | 1@1              | DFT_BPSK   | 25.05                                    | -3.3                     | 21.75         | 33.01         | Pass    |
| n38  | 30           | 10                 | 523000        | 24@0             | DFT_QPSK   | 24.12                                    | -3.3                     | 20.82         | 33.01         | Pass    |
| n38  | 30           | 10                 | 523000        | 12@6             | DFT_QPSK   | 25.18                                    | -3.3                     | 21.88         | 33.01         | Pass    |
| n38  | 30           | 10                 | 523000        | 1@1              | DFT_QPSK   | 24.97                                    | -3.3                     | 21.67         | 33.01         | Pass    |
| n38  | 30           | 10                 | 523000        | 1@22             | DFT_QPSK   | 24.97                                    | -3.3                     | 21.67         | 33.01         | Pass    |
| n38  | 30           | 10                 | 523000        | 1@1              | DFT_QAM16  | 23.61                                    | -3.3                     | 20.31         | 33.01         | Pass    |
| n38  | 30           | 10                 | 523000        | 1@1              | DFT_QAM64  | 22.68                                    | -3.3                     | 19.38         | 33.01         | Pass    |
| n38  | 30           | 10                 | 523000        | 1@1              | DFT_QAM256 | 20.93                                    | -3.3                     | 17.63         | 33.01         | Pass    |
| n38  | 30           | 10                 | 523000        | 1@1              | CP_QPSK    | 23.71                                    | -3.3                     | 20.41         | 33.01         | Pass    |
| n38  | 30           | 15                 | 515500        | 1@1              | DFT_BPSK   | 24.6                                     | -3.3                     | 21.30         | 33.01         | Pass    |
| n38  | 30           | 15                 | 515500        | 36@0             | DFT_QPSK   | 24.12                                    | -3.3                     | 20.82         | 33.01         | Pass    |
| n38  | 30           | 15                 | 515500        | 18@9             | DFT_QPSK   | 24.99                                    | -3.3                     | 21.69         | 33.01         | Pass    |
| n38  | 30           | 15                 | 515500        | 1@1              | DFT_QPSK   | 24.69                                    | -3.3                     | 21.39         | 33.01         | Pass    |
| n38  | 30           | 15                 | 515500        | 1@36             | DFT_QPSK   | 24.72                                    | -3.3                     | 21.42         | 33.01         | Pass    |
| n38  | 30           | 15                 | 515500        | 1@1              | DFT_QAM16  | 23.65                                    | -3.3                     | 20.35         | 33.01         | Pass    |
| n38  | 30           | 15                 | 515500        | 1@1              | DFT_QAM64  | 23.18                                    | -3.3                     | 19.88         | 33.01         | Pass    |
| n38  | 30           | 15                 | 515500        | 1@1              | DFT_QAM256 | 20.19                                    | -3.3                     | 16.89         | 33.01         | Pass    |
| n38  | 30           | 15                 | 515500        | 1@1              | CP_QPSK    | 23.15                                    | -3.3                     | 19.85         | 33.01         | Pass    |
| n38  | 30           | 15                 | 519000        | 1@1              | DFT_BPSK   | 24.7                                     | -3.3                     | 21.40         | 33.01         | Pass    |

|     |    |    |        |       |            |       |      |       |       |      |
|-----|----|----|--------|-------|------------|-------|------|-------|-------|------|
| n38 | 30 | 15 | 519000 | 36@0  | DFT_QPSK   | 24.13 | -3.3 | 20.83 | 33.01 | Pass |
| n38 | 30 | 15 | 519000 | 18@9  | DFT_QPSK   | 25.07 | -3.3 | 21.77 | 33.01 | Pass |
| n38 | 30 | 15 | 519000 | 1@1   | DFT_QPSK   | 24.73 | -3.3 | 21.43 | 33.01 | Pass |
| n38 | 30 | 15 | 519000 | 1@36  | DFT_QPSK   | 24.8  | -3.3 | 21.50 | 33.01 | Pass |
| n38 | 30 | 15 | 519000 | 1@1   | DFT_QAM16  | 23.95 | -3.3 | 20.65 | 33.01 | Pass |
| n38 | 30 | 15 | 519000 | 1@1   | DFT_QAM64  | 22.37 | -3.3 | 19.07 | 33.01 | Pass |
| n38 | 30 | 15 | 519000 | 1@1   | DFT_QAM256 | 20.48 | -3.3 | 17.18 | 33.01 | Pass |
| n38 | 30 | 15 | 519000 | 1@1   | CP_QPSK    | 25    | -3.3 | 21.70 | 33.01 | Pass |
| n38 | 30 | 15 | 522500 | 1@1   | DFT_BPSK   | 25.04 | -3.3 | 21.74 | 33.01 | Pass |
| n38 | 30 | 15 | 522500 | 36@0  | DFT_QPSK   | 24.12 | -3.3 | 20.82 | 33.01 | Pass |
| n38 | 30 | 15 | 522500 | 18@9  | DFT_QPSK   | 25.03 | -3.3 | 21.73 | 33.01 | Pass |
| n38 | 30 | 15 | 522500 | 1@1   | DFT_QPSK   | 25.14 | -3.3 | 21.84 | 33.01 | Pass |
| n38 | 30 | 15 | 522500 | 1@36  | DFT_QPSK   | 25.13 | -3.3 | 21.83 | 33.01 | Pass |
| n38 | 30 | 15 | 522500 | 1@1   | DFT_QAM16  | 23.75 | -3.3 | 20.45 | 33.01 | Pass |
| n38 | 30 | 15 | 522500 | 1@1   | DFT_QAM64  | 22.24 | -3.3 | 18.94 | 33.01 | Pass |
| n38 | 30 | 15 | 522500 | 1@1   | DFT_QAM256 | 20.27 | -3.3 | 16.97 | 33.01 | Pass |
| n38 | 30 | 15 | 522500 | 1@1   | CP_QPSK    | 23.91 | -3.3 | 20.61 | 33.01 | Pass |
| n38 | 30 | 20 | 516000 | 1@1   | DFT_BPSK   | 24.82 | -3.3 | 21.52 | 33.01 | Pass |
| n38 | 30 | 20 | 516000 | 50@0  | DFT_QPSK   | 24.01 | -3.3 | 20.71 | 33.01 | Pass |
| n38 | 30 | 20 | 516000 | 25@12 | DFT_QPSK   | 24.98 | -3.3 | 21.68 | 33.01 | Pass |
| n38 | 30 | 20 | 516000 | 1@1   | DFT_QPSK   | 24.83 | -3.3 | 21.53 | 33.01 | Pass |
| n38 | 30 | 20 | 516000 | 1@49  | DFT_QPSK   | 24.9  | -3.3 | 21.60 | 33.01 | Pass |
| n38 | 30 | 20 | 516000 | 1@1   | DFT_QAM16  | 24.11 | -3.3 | 20.81 | 33.01 | Pass |
| n38 | 30 | 20 | 516000 | 1@1   | DFT_QAM64  | 22.47 | -3.3 | 19.17 | 33.01 | Pass |
| n38 | 30 | 20 | 516000 | 1@1   | DFT_QAM256 | 20.75 | -3.3 | 17.45 | 33.01 | Pass |
| n38 | 30 | 20 | 516000 | 1@1   | CP_QPSK    | 23.04 | -3.3 | 19.74 | 33.01 | Pass |
| n38 | 30 | 20 | 519000 | 1@1   | DFT_BPSK   | 24.79 | -3.3 | 21.49 | 33.01 | Pass |
| n38 | 30 | 20 | 519000 | 50@0  | DFT_QPSK   | 24.05 | -3.3 | 20.75 | 33.01 | Pass |
| n38 | 30 | 20 | 519000 | 25@12 | DFT_QPSK   | 25.05 | -3.3 | 21.75 | 33.01 | Pass |
| n38 | 30 | 20 | 519000 | 1@1   | DFT_QPSK   | 24.9  | -3.3 | 21.60 | 33.01 | Pass |
| n38 | 30 | 20 | 519000 | 1@49  | DFT_QPSK   | 25.35 | -3.3 | 22.05 | 33.01 | Pass |
| n38 | 30 | 20 | 519000 | 1@1   | DFT_QAM16  | 24.49 | -3.3 | 21.19 | 33.01 | Pass |
| n38 | 30 | 20 | 519000 | 1@1   | DFT_QAM64  | 22.66 | -3.3 | 19.36 | 33.01 | Pass |
| n38 | 30 | 20 | 519000 | 1@1   | DFT_QAM256 | 20.53 | -3.3 | 17.23 | 33.01 | Pass |
| n38 | 30 | 20 | 519000 | 1@1   | CP_QPSK    | 23.61 | -3.3 | 20.31 | 33.01 | Pass |
| n38 | 30 | 20 | 522000 | 1@1   | DFT_BPSK   | 24.75 | -3.3 | 21.45 | 33.01 | Pass |
| n38 | 30 | 20 | 522000 | 50@0  | DFT_QPSK   | 24.09 | -3.3 | 20.79 | 33.01 | Pass |
| n38 | 30 | 20 | 522000 | 25@12 | DFT_QPSK   | 25.17 | -3.3 | 21.87 | 33.01 | Pass |
| n38 | 30 | 20 | 522000 | 1@1   | DFT_QPSK   | 24.89 | -3.3 | 21.59 | 33.01 | Pass |
| n38 | 30 | 20 | 522000 | 1@49  | DFT_QPSK   | 24.98 | -3.3 | 21.68 | 33.01 | Pass |
| n38 | 30 | 20 | 522000 | 1@1   | DFT_QAM16  | 24.04 | -3.3 | 20.74 | 33.01 | Pass |
| n38 | 30 | 20 | 522000 | 1@1   | DFT_QAM64  | 22.34 | -3.3 | 19.04 | 33.01 | Pass |
| n38 | 30 | 20 | 522000 | 1@1   | DFT_QAM256 | 20.46 | -3.3 | 17.16 | 33.01 | Pass |
| n38 | 30 | 20 | 522000 | 1@1   | CP_QPSK    | 23.12 | -3.3 | 19.82 | 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   | -2.09      | -0.00081        | -2.5                  | 2.5                    | PASS    |
| n38  | 30           | 10                 | 515000        | 1@1              | DFT_BPSK   | -1.07      | -0.00042        | -2.5                  | 2.5                    | PASS    |
| n38  | 30           | 10                 | 515000        | 1@22             | DFT_BPSK   | -2.07      | -0.00080        | -2.5                  | 2.5                    | PASS    |
| n38  | 30           | 10                 | 515000        | 12@6             | DFT_QPSK   | -5.39      | -0.00209        | -2.5                  | 2.5                    | PASS    |
| n38  | 30           | 10                 | 515000        | 1@1              | DFT_QPSK   | -4.28      | -0.00166        | -2.5                  | 2.5                    | PASS    |
| n38  | 30           | 10                 | 515000        | 1@22             | DFT_QPSK   | -4.47      | -0.00174        | -2.5                  | 2.5                    | PASS    |
| n38  | 30           | 10                 | 519000        | 12@6             | DFT_BPSK   | -6.75      | -0.00260        | -2.5                  | 2.5                    | PASS    |
| n38  | 30           | 10                 | 519000        | 1@1              | DFT_BPSK   | -5.53      | -0.00213        | -2.5                  | 2.5                    | PASS    |
| n38  | 30           | 10                 | 519000        | 1@22             | DFT_BPSK   | -8.31      | -0.00320        | -2.5                  | 2.5                    | PASS    |
| n38  | 30           | 10                 | 519000        | 12@6             | DFT_QPSK   | -6.18      | -0.00238        | -2.5                  | 2.5                    | PASS    |
| n38  | 30           | 10                 | 519000        | 1@1              | DFT_QPSK   | -7.39      | -0.00285        | -2.5                  | 2.5                    | PASS    |
| n38  | 30           | 10                 | 519000        | 1@22             | DFT_QPSK   | -5.74      | -0.00221        | -2.5                  | 2.5                    | PASS    |
| n38  | 30           | 10                 | 523000        | 12@6             | DFT_BPSK   | -6.00      | -0.00229        | -2.5                  | 2.5                    | PASS    |
| n38  | 30           | 10                 | 523000        | 1@1              | DFT_BPSK   | -6.48      | -0.00248        | -2.5                  | 2.5                    | PASS    |
| n38  | 30           | 10                 | 523000        | 1@22             | DFT_BPSK   | -4.21      | -0.00161        | -2.5                  | 2.5                    | PASS    |
| n38  | 30           | 10                 | 523000        | 12@6             | DFT_QPSK   | -4.58      | -0.00175        | -2.5                  | 2.5                    | PASS    |
| n38  | 30           | 10                 | 523000        | 1@1              | DFT_QPSK   | -3.63      | -0.00139        | -2.5                  | 2.5                    | PASS    |
| n38  | 30           | 10                 | 523000        | 1@22             | DFT_QPSK   | -3.72      | -0.00142        | -2.5                  | 2.5                    | PASS    |
| n38  | 30           | 15                 | 515500        | 18@9             | DFT_BPSK   | -1.72      | -0.00067        | -2.5                  | 2.5                    | PASS    |
| n38  | 30           | 15                 | 515500        | 1@1              | DFT_BPSK   | -1.71      | -0.00066        | -2.5                  | 2.5                    | PASS    |
| n38  | 30           | 15                 | 515500        | 1@36             | DFT_BPSK   | -2.93      | -0.00114        | -2.5                  | 2.5                    | PASS    |
| n38  | 30           | 15                 | 515500        | 18@9             | DFT_QPSK   | -0.18      | -0.00007        | -2.5                  | 2.5                    | PASS    |
| n38  | 30           | 15                 | 515500        | 1@1              | DFT_QPSK   | -0.84      | -0.00033        | -2.5                  | 2.5                    | PASS    |
| n38  | 30           | 15                 | 515500        | 1@36             | DFT_QPSK   | -1.06      | -0.00041        | -2.5                  | 2.5                    | PASS    |
| n38  | 30           | 15                 | 519000        | 18@9             | DFT_BPSK   | -1.86      | -0.00072        | -2.5                  | 2.5                    | PASS    |
| n38  | 30           | 15                 | 519000        | 1@1              | DFT_BPSK   | -0.10      | -0.00004        | -2.5                  | 2.5                    | PASS    |
| n38  | 30           | 15                 | 519000        | 1@36             | DFT_BPSK   | -0.10      | -0.00004        | -2.5                  | 2.5                    | PASS    |
| n38  | 30           | 15                 | 519000        | 18@9             | DFT_QPSK   | -6.85      | -0.00264        | -2.5                  | 2.5                    | PASS    |
| n38  | 30           | 15                 | 519000        | 1@1              | DFT_QPSK   | -5.68      | -0.00219        | -2.5                  | 2.5                    | PASS    |
| n38  | 30           | 15                 | 519000        | 1@36             | DFT_QPSK   | -5.28      | -0.00203        | -2.5                  | 2.5                    | PASS    |
| n38  | 30           | 15                 | 522500        | 18@9             | DFT_BPSK   | -6.01      | -0.00230        | -2.5                  | 2.5                    | PASS    |
| n38  | 30           | 15                 | 522500        | 1@1              | DFT_BPSK   | -5.13      | -0.00196        | -2.5                  | 2.5                    | PASS    |
| n38  | 30           | 15                 | 522500        | 1@36             | DFT_BPSK   | -6.09      | -0.00233        | -2.5                  | 2.5                    | PASS    |
| n38  | 30           | 15                 | 522500        | 18@9             | DFT_QPSK   | -6.07      | -0.00232        | -2.5                  | 2.5                    | PASS    |
| n38  | 30           | 15                 | 522500        | 1@1              | DFT_QPSK   | -4.17      | -0.00160        | -2.5                  | 2.5                    | PASS    |
| n38  | 30           | 15                 | 522500        | 1@36             | DFT_QPSK   | -3.93      | -0.00150        | -2.5                  | 2.5                    | PASS    |
| n38  | 30           | 20                 | 516000        | 25@12            | DFT_BPSK   | -5.01      | -0.00194        | -2.5                  | 2.5                    | PASS    |
| n38  | 30           | 20                 | 516000        | 1@1              | DFT_BPSK   | -6.90      | -0.00267        | -2.5                  | 2.5                    | PASS    |
| n38  | 30           | 20                 | 516000        | 1@49             | DFT_BPSK   | -6.52      | -0.00253        | -2.5                  | 2.5                    | PASS    |

|     |    |    |        |       |          |       |          |      |     |      |
|-----|----|----|--------|-------|----------|-------|----------|------|-----|------|
| n38 | 30 | 20 | 516000 | 25@12 | DFT_QPSK | -7.65 | -0.00297 | -2.5 | 2.5 | PASS |
| n38 | 30 | 20 | 516000 | 1@1   | DFT_QPSK | -7.34 | -0.00284 | -2.5 | 2.5 | PASS |
| n38 | 30 | 20 | 516000 | 1@49  | DFT_QPSK | -6.46 | -0.00250 | -2.5 | 2.5 | PASS |
| n38 | 30 | 20 | 519000 | 25@12 | DFT_BPSK | -0.96 | -0.00037 | -2.5 | 2.5 | PASS |
| n38 | 30 | 20 | 519000 | 1@1   | DFT_BPSK | 0.43  | 0.00017  | -2.5 | 2.5 | PASS |
| n38 | 30 | 20 | 519000 | 1@49  | DFT_BPSK | 0.58  | 0.00022  | -2.5 | 2.5 | PASS |
| n38 | 30 | 20 | 519000 | 25@12 | DFT_QPSK | -4.81 | -0.00185 | -2.5 | 2.5 | PASS |
| n38 | 30 | 20 | 519000 | 1@1   | DFT_QPSK | -4.28 | -0.00165 | -2.5 | 2.5 | PASS |
| n38 | 30 | 20 | 519000 | 1@49  | DFT_QPSK | -1.92 | -0.00074 | -2.5 | 2.5 | PASS |
| n38 | 30 | 20 | 522000 | 25@12 | DFT_BPSK | -7.20 | -0.00276 | -2.5 | 2.5 | PASS |
| n38 | 30 | 20 | 522000 | 1@1   | DFT_BPSK | -8.17 | -0.00313 | -2.5 | 2.5 | PASS |
| n38 | 30 | 20 | 522000 | 1@49  | DFT_BPSK | -7.52 | -0.00288 | -2.5 | 2.5 | PASS |
| n38 | 30 | 20 | 522000 | 25@12 | DFT_QPSK | -3.27 | -0.00125 | -2.5 | 2.5 | PASS |
| n38 | 30 | 20 | 522000 | 1@1   | DFT_QPSK | -3.35 | -0.00128 | -2.5 | 2.5 | PASS |
| n38 | 30 | 20 | 522000 | 1@49  | DFT_QPSK | -3.27 | -0.00125 | -2.5 | 2.5 | PASS |

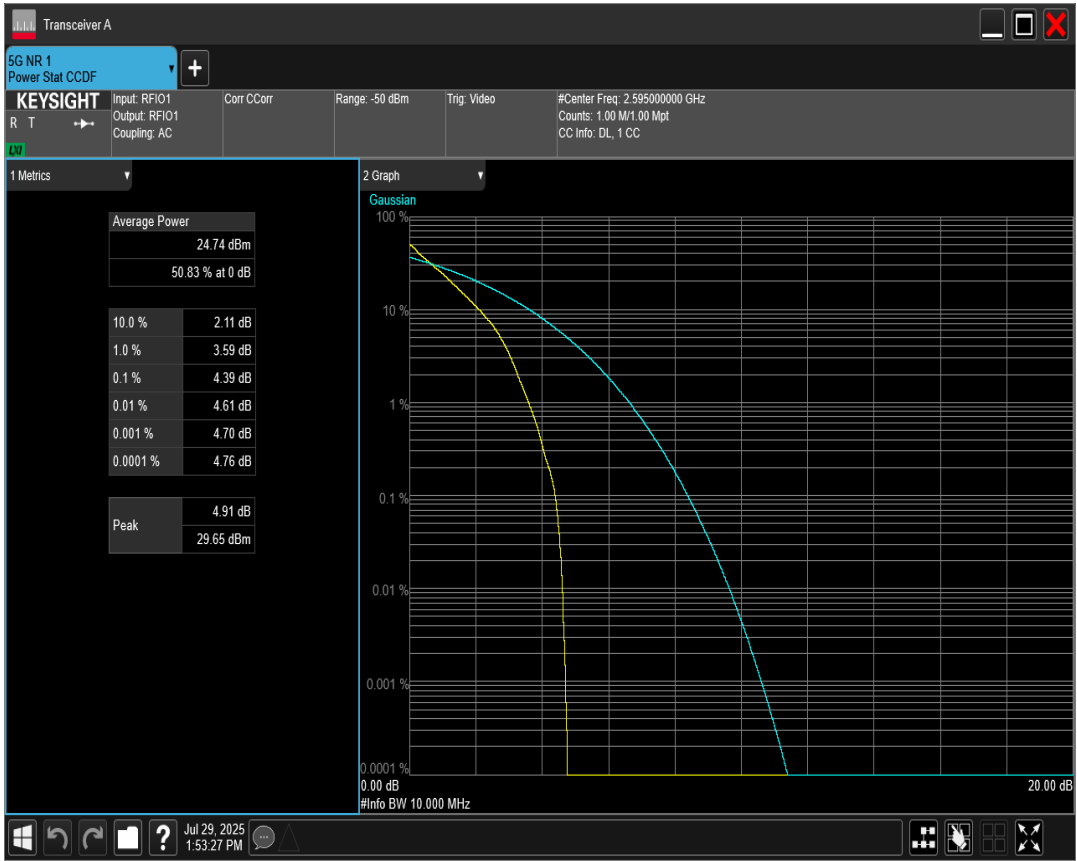
Note: (Voltage: 3.91V, Temperature: 25°C) only reflect the worst mode.

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

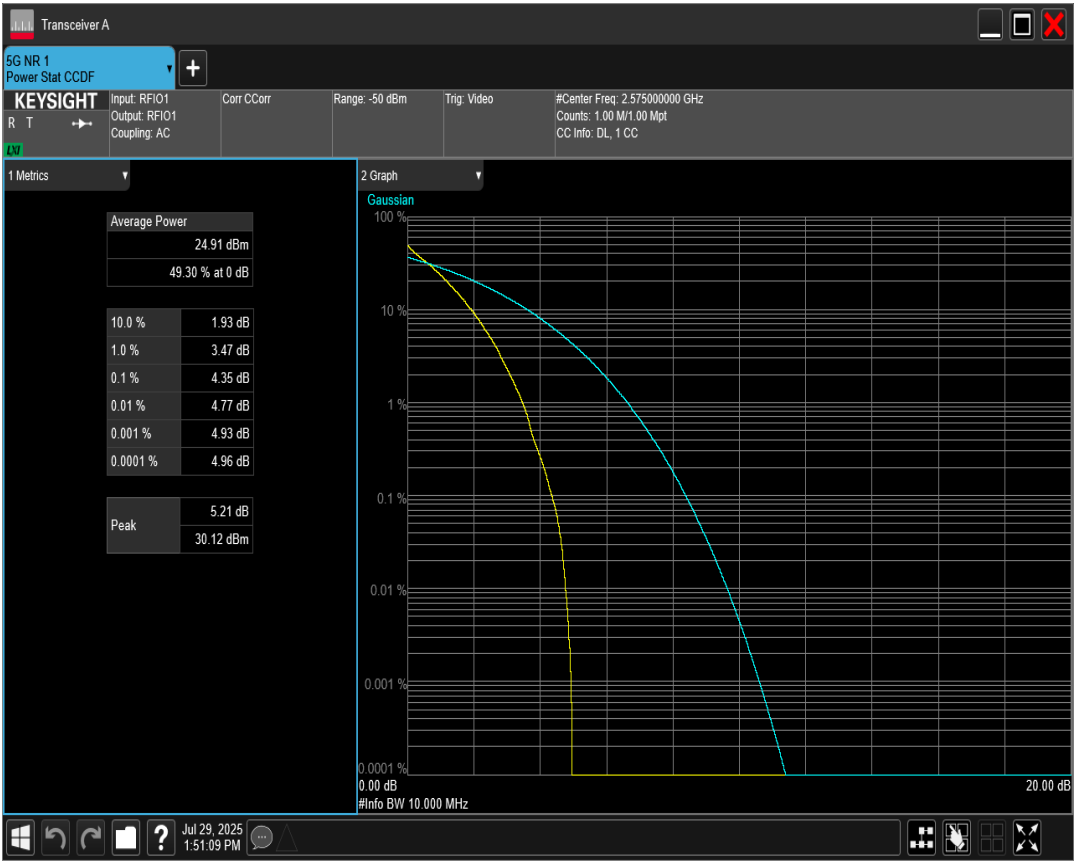
| <i>Band</i> | <i>SCS<br/>(kHz)</i> | <i>Bandwidth<br/>(MHz)</i> | <i>UL<br/>Channel</i> | <i>RB<br/>Allocation</i> | <i>Modulation</i> | <i>Result<br/>(dB)</i> | <i>high<br/>Limit<br/>(dB)</i> | <i>Verdict</i> |
|-------------|----------------------|----------------------------|-----------------------|--------------------------|-------------------|------------------------|--------------------------------|----------------|
| n38         | 30                   | 10                         | 515000                | 24@0                     | DFT_BPSK          | 4.35                   | 13                             | PASS           |
| n38         | 30                   | 10                         | 515000                | 24@0                     | DFT_QPSK          | 5.42                   | 13                             | PASS           |
| n38         | 30                   | 10                         | 515000                | 24@0                     | DFT_QAM16         | 6.23                   | 13                             | PASS           |
| n38         | 30                   | 10                         | 515000                | 24@0                     | DFT_QAM64         | 6.37                   | 13                             | PASS           |
| n38         | 30                   | 10                         | 515000                | 24@0                     | DFT_QAM256        | 6.69                   | 13                             | PASS           |
| n38         | 30                   | 10                         | 519000                | 24@0                     | DFT_BPSK          | 4.39                   | 13                             | PASS           |
| n38         | 30                   | 10                         | 519000                | 24@0                     | DFT_QPSK          | 5.20                   | 13                             | PASS           |
| n38         | 30                   | 10                         | 519000                | 24@0                     | DFT_QAM16         | 5.89                   | 13                             | PASS           |
| n38         | 30                   | 10                         | 519000                | 24@0                     | DFT_QAM64         | 6.16                   | 13                             | PASS           |
| n38         | 30                   | 10                         | 519000                | 24@0                     | DFT_QAM256        | 6.75                   | 13                             | PASS           |
| n38         | 30                   | 10                         | 523000                | 24@0                     | DFT_BPSK          | 4.29                   | 13                             | PASS           |
| n38         | 30                   | 10                         | 523000                | 24@0                     | DFT_QPSK          | 5.40                   | 13                             | PASS           |
| n38         | 30                   | 10                         | 523000                | 24@0                     | DFT_QAM16         | 6.29                   | 13                             | PASS           |
| n38         | 30                   | 10                         | 523000                | 24@0                     | DFT_QAM64         | 6.35                   | 13                             | PASS           |
| n38         | 30                   | 10                         | 523000                | 24@0                     | DFT_QAM256        | 6.78                   | 13                             | PASS           |
| n38         | 30                   | 15                         | 515500                | 36@0                     | DFT_BPSK          | 4.68                   | 13                             | PASS           |
| n38         | 30                   | 15                         | 515500                | 36@0                     | DFT_QPSK          | 5.67                   | 13                             | PASS           |
| n38         | 30                   | 15                         | 515500                | 36@0                     | DFT_QAM16         | 6.21                   | 13                             | PASS           |
| n38         | 30                   | 15                         | 515500                | 36@0                     | DFT_QAM64         | 6.89                   | 13                             | PASS           |
| n38         | 30                   | 15                         | 515500                | 36@0                     | DFT_QAM256        | 6.76                   | 13                             | PASS           |
| n38         | 30                   | 15                         | 519000                | 36@0                     | DFT_BPSK          | 4.59                   | 13                             | PASS           |
| n38         | 30                   | 15                         | 519000                | 36@0                     | DFT_QPSK          | 5.27                   | 13                             | PASS           |
| n38         | 30                   | 15                         | 519000                | 36@0                     | DFT_QAM16         | 5.99                   | 13                             | PASS           |
| n38         | 30                   | 15                         | 519000                | 36@0                     | DFT_QAM64         | 6.48                   | 13                             | PASS           |
| n38         | 30                   | 15                         | 519000                | 36@0                     | DFT_QAM256        | 6.57                   | 13                             | PASS           |
| n38         | 30                   | 15                         | 522500                | 36@0                     | DFT_BPSK          | 4.41                   | 13                             | PASS           |
| n38         | 30                   | 15                         | 522500                | 36@0                     | DFT_QPSK          | 5.22                   | 13                             | PASS           |
| n38         | 30                   | 15                         | 522500                | 36@0                     | DFT_QAM16         | 6.29                   | 13                             | PASS           |
| n38         | 30                   | 15                         | 522500                | 36@0                     | DFT_QAM64         | 6.55                   | 13                             | PASS           |
| n38         | 30                   | 15                         | 522500                | 36@0                     | DFT_QAM256        | 6.87                   | 13                             | PASS           |
| n38         | 30                   | 20                         | 516000                | 50@0                     | DFT_BPSK          | 4.62                   | 13                             | PASS           |
| n38         | 30                   | 20                         | 516000                | 50@0                     | DFT_QPSK          | 5.60                   | 13                             | PASS           |
| n38         | 30                   | 20                         | 516000                | 50@0                     | DFT_QAM16         | 6.45                   | 13                             | PASS           |
| n38         | 30                   | 20                         | 516000                | 50@0                     | DFT_QAM64         | 6.59                   | 13                             | PASS           |
| n38         | 30                   | 20                         | 516000                | 50@0                     | DFT_QAM256        | 6.55                   | 13                             | PASS           |
| n38         | 30                   | 20                         | 519000                | 50@0                     | DFT_BPSK          | 5.05                   | 13                             | PASS           |
| n38         | 30                   | 20                         | 519000                | 50@0                     | DFT_QPSK          | 5.75                   | 13                             | PASS           |
| n38         | 30                   | 20                         | 519000                | 50@0                     | DFT_QAM16         | 6.07                   | 13                             | PASS           |
| n38         | 30                   | 20                         | 519000                | 50@0                     | DFT_QAM64         | 6.74                   | 13                             | PASS           |

|     |    |    |        |      |            |      |    |      |
|-----|----|----|--------|------|------------|------|----|------|
| n38 | 30 | 20 | 519000 | 50@0 | DFT_QAM256 | 6.49 | 13 | PASS |
| n38 | 30 | 20 | 522000 | 50@0 | DFT_BPSK   | 4.46 | 13 | PASS |
| n38 | 30 | 20 | 522000 | 50@0 | DFT_QPSK   | 5.41 | 13 | PASS |
| n38 | 30 | 20 | 522000 | 50@0 | DFT_QAM16  | 6.50 | 13 | PASS |
| n38 | 30 | 20 | 522000 | 50@0 | DFT_QAM64  | 6.67 | 13 | PASS |
| n38 | 30 | 20 | 522000 | 50@0 | DFT_QAM256 | 6.85 | 13 | PASS |

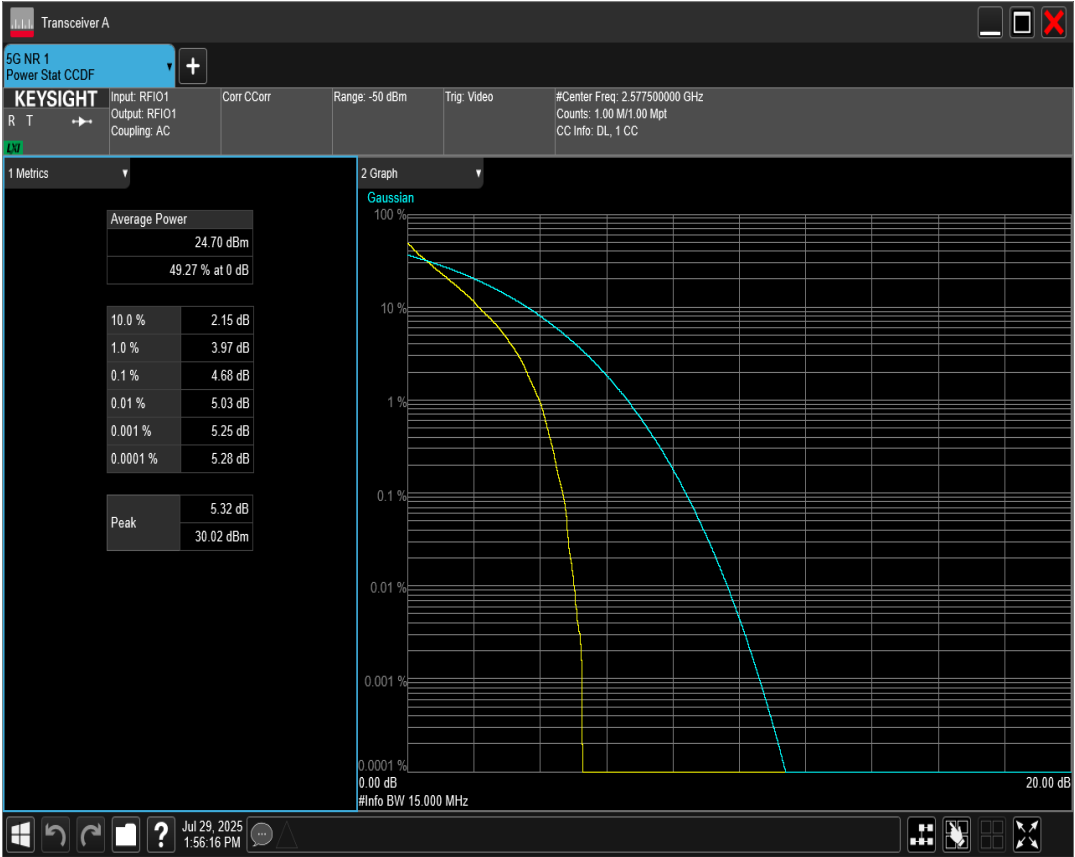
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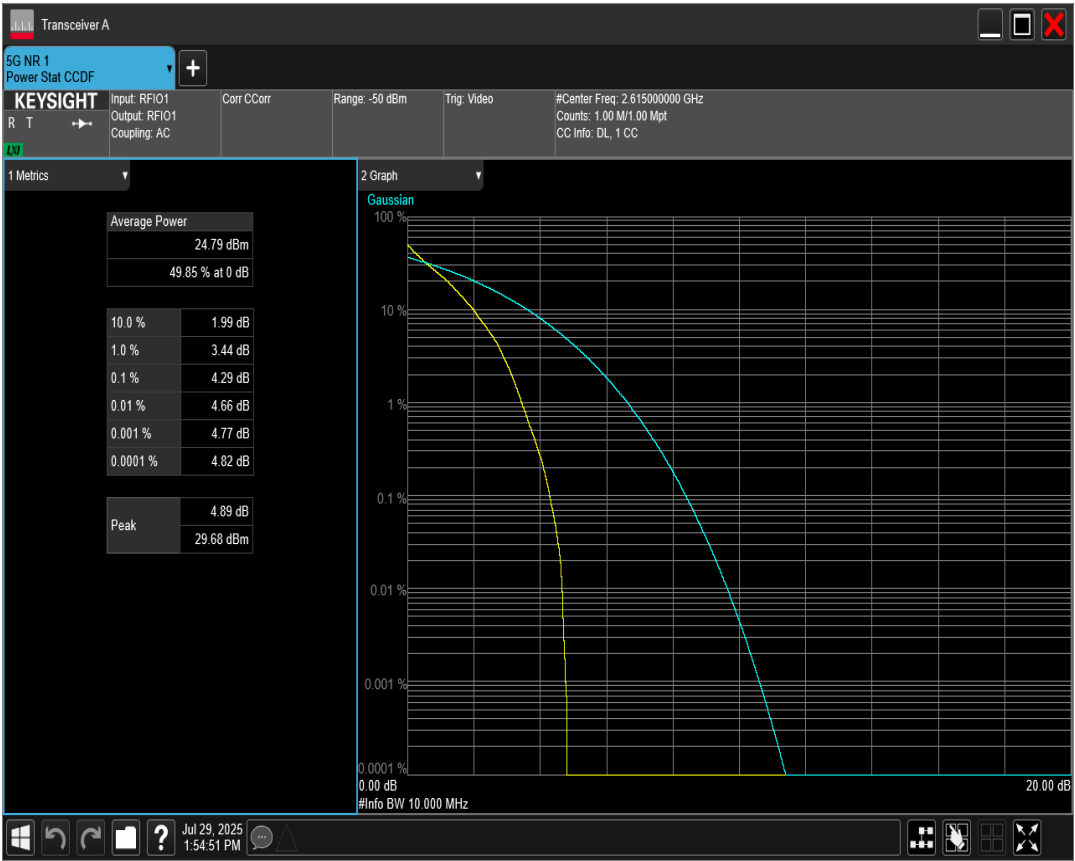
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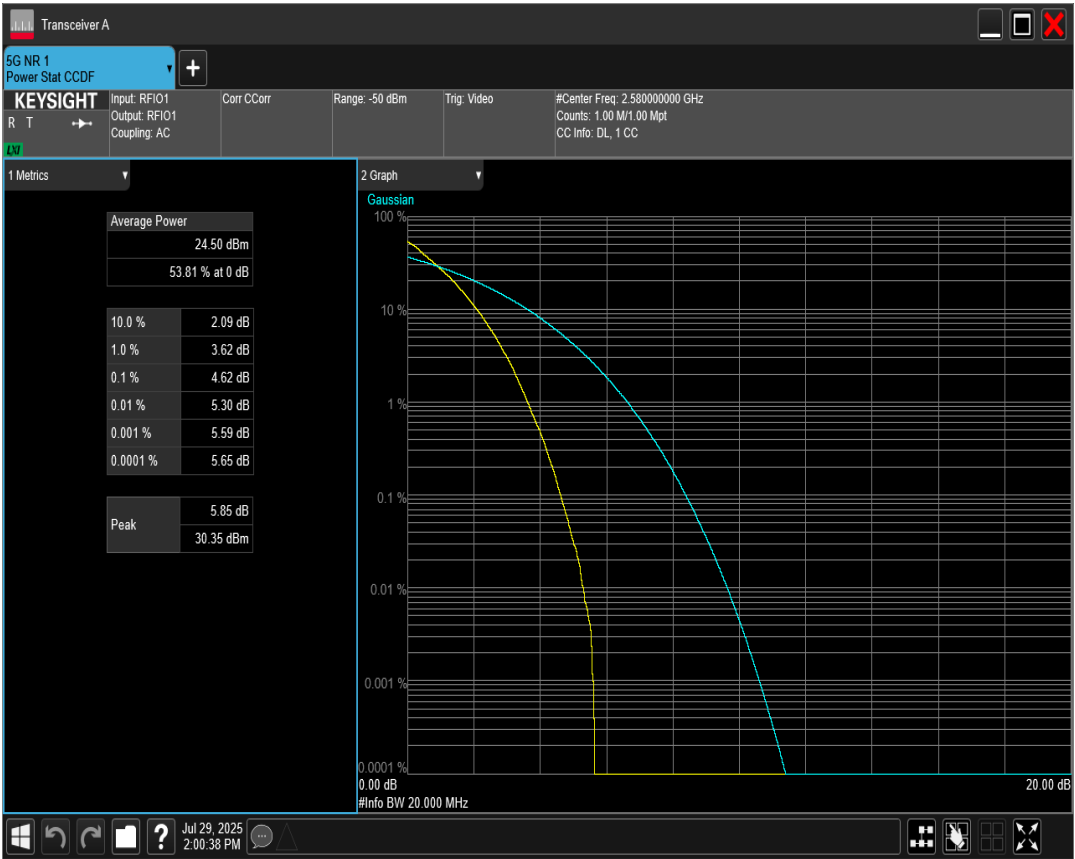
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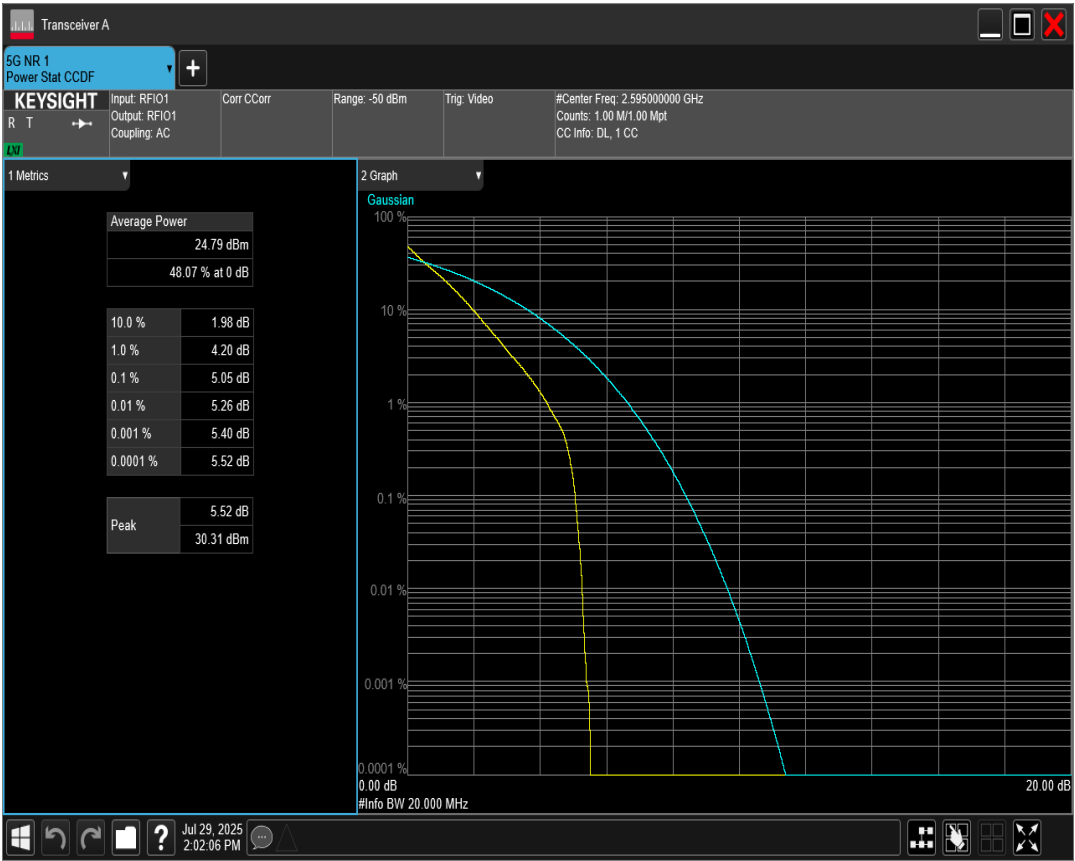
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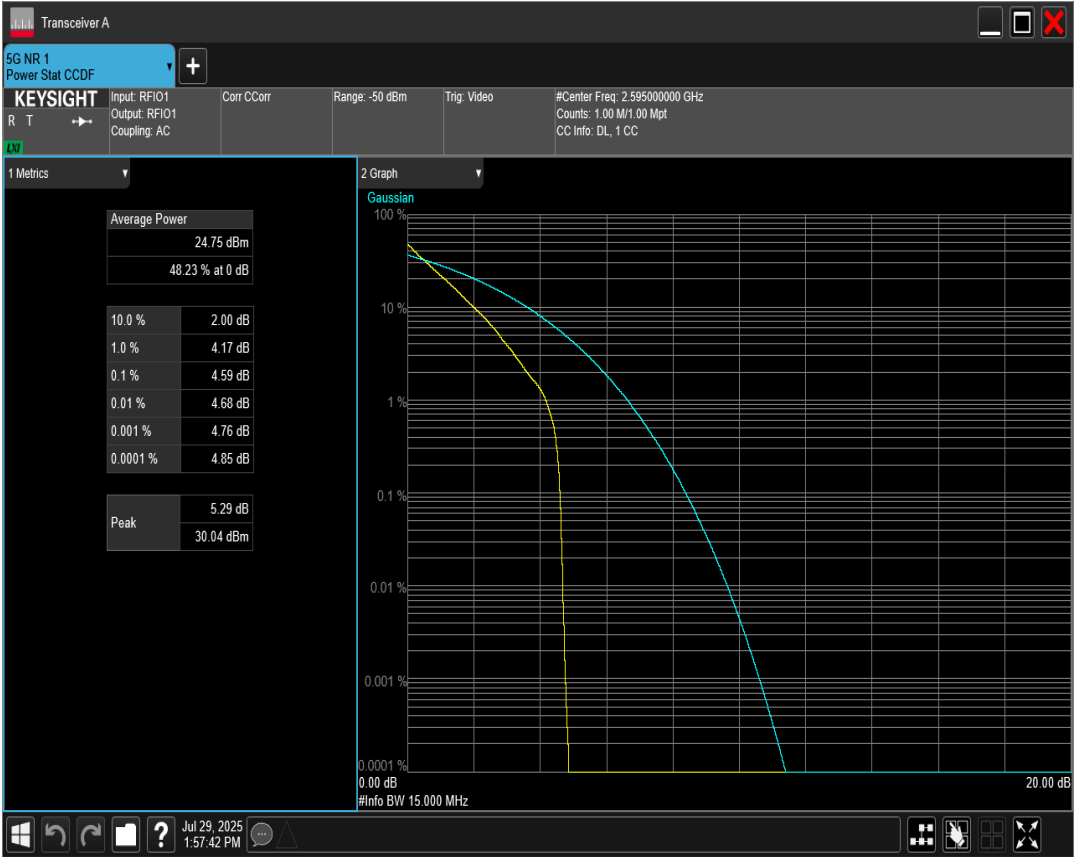
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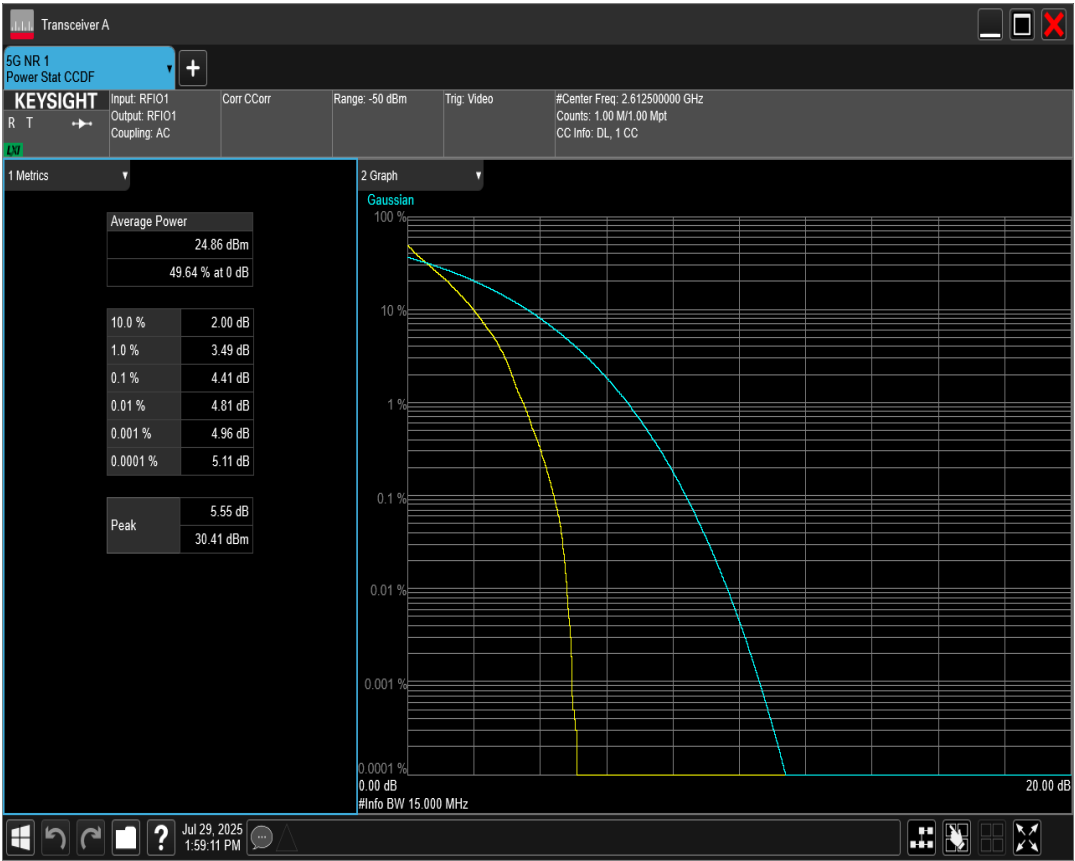
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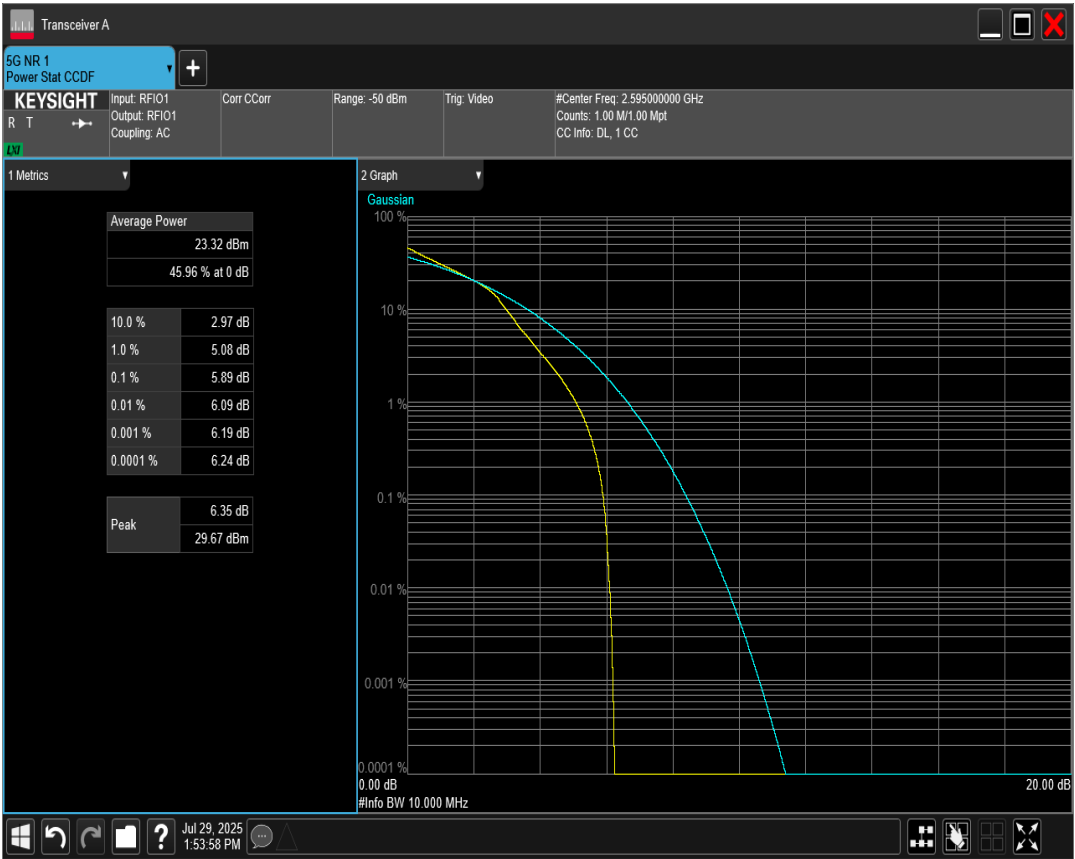
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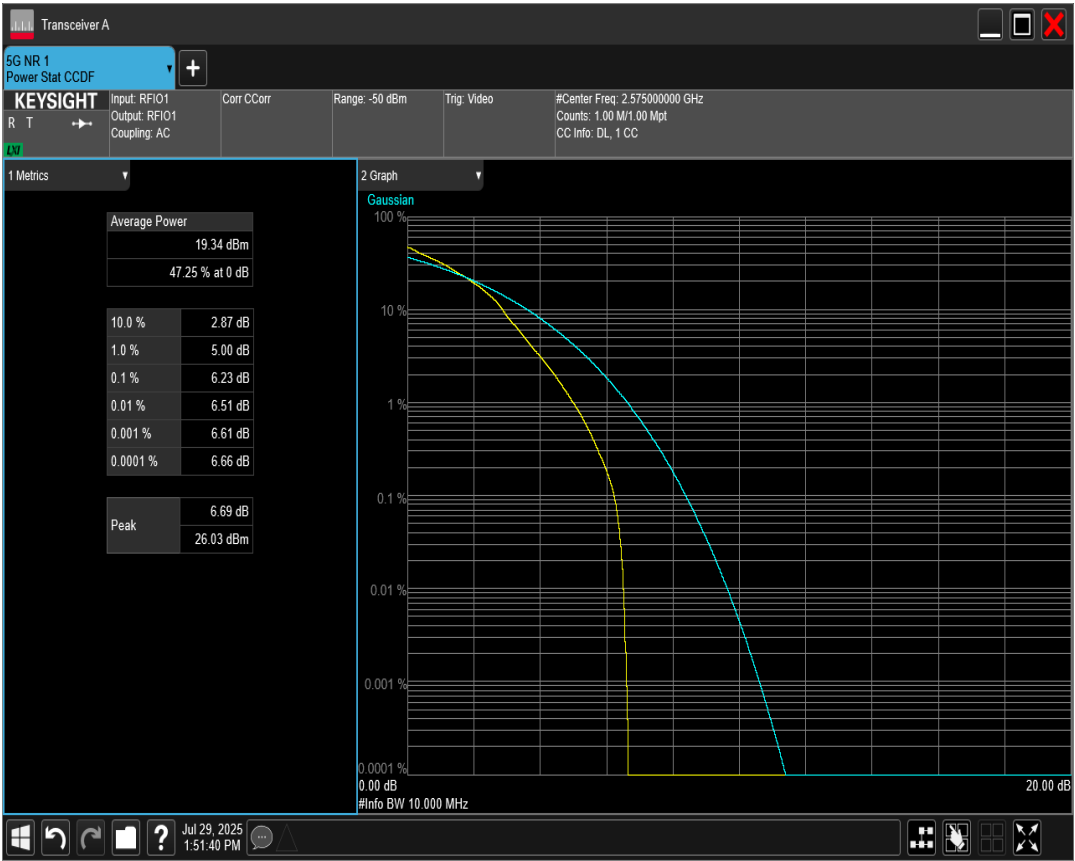
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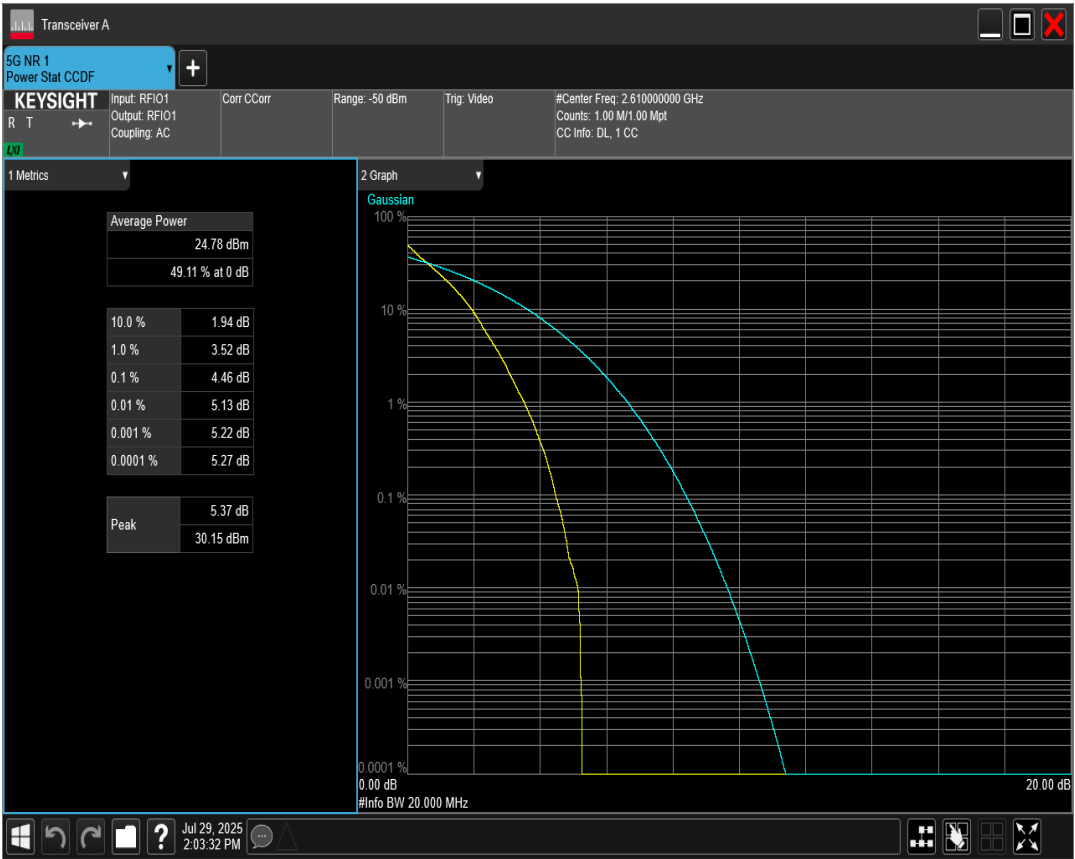
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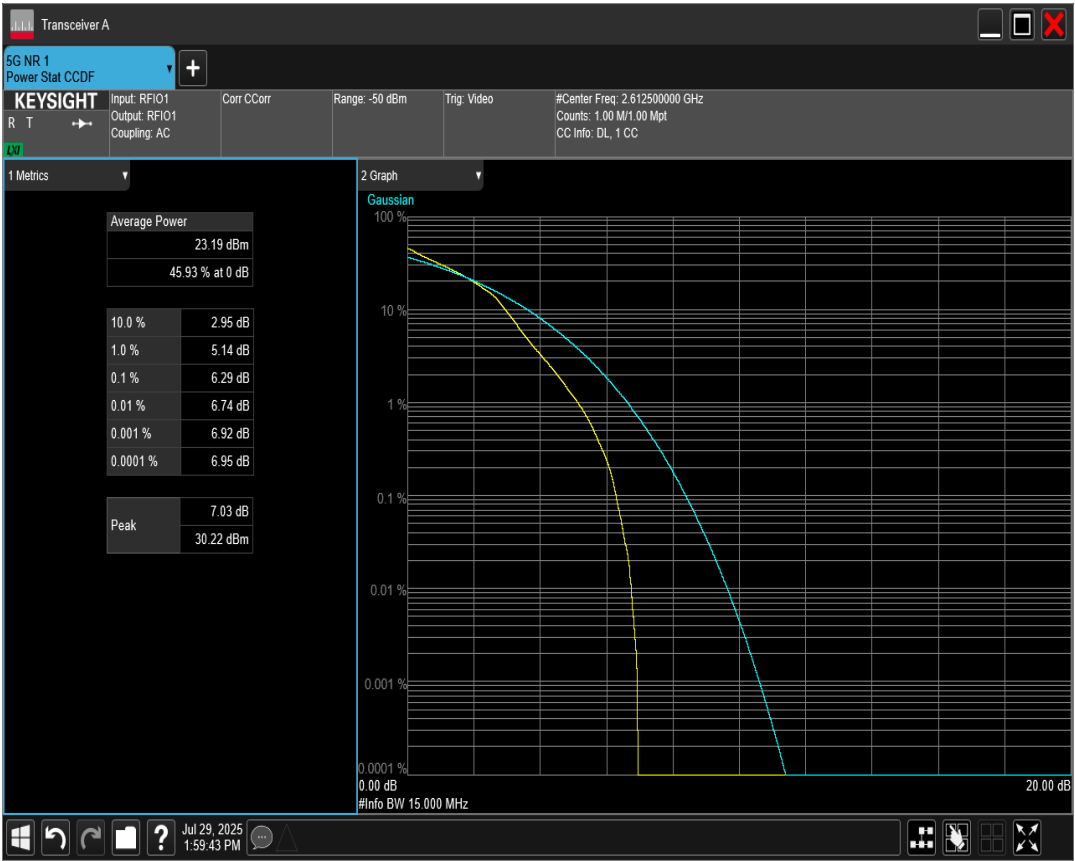
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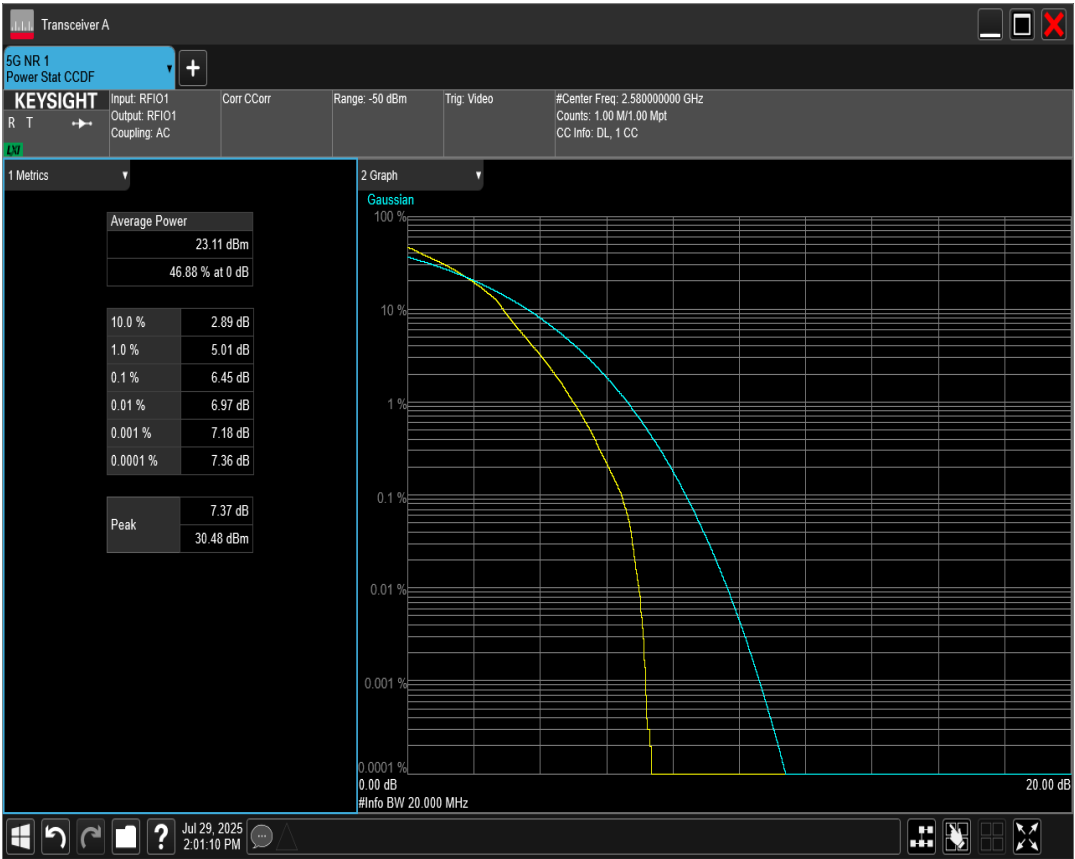
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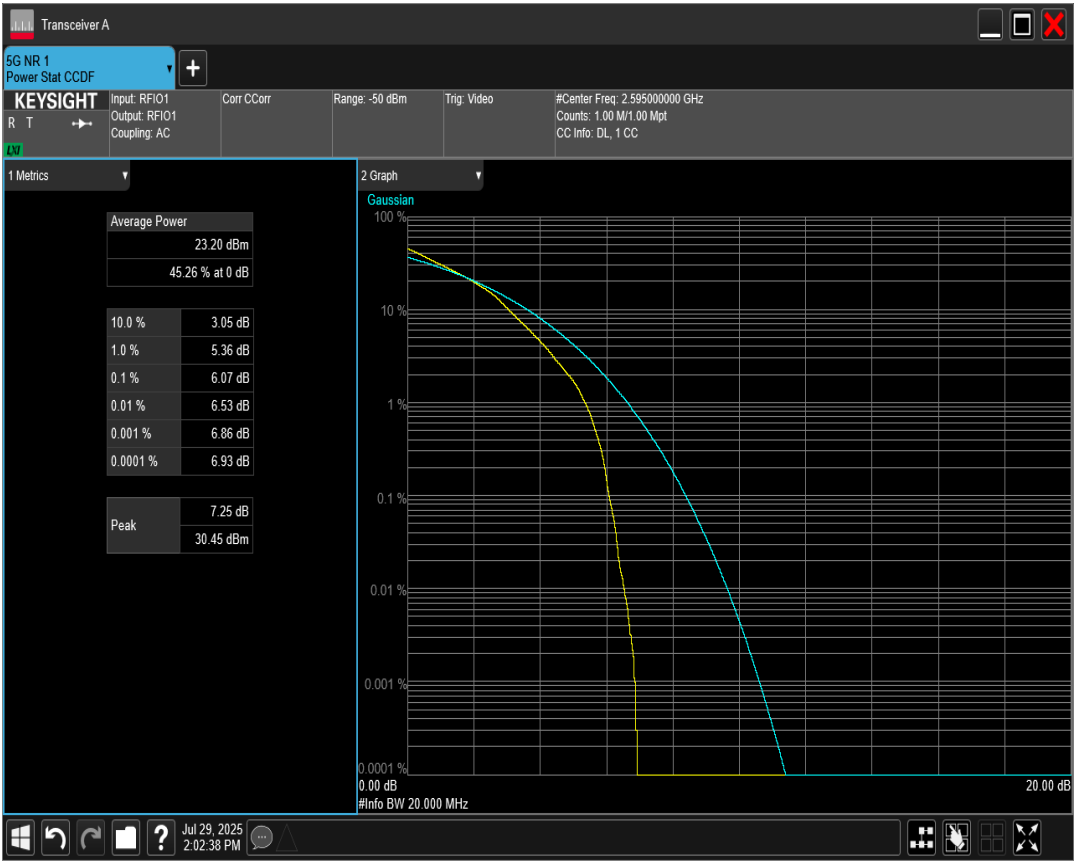
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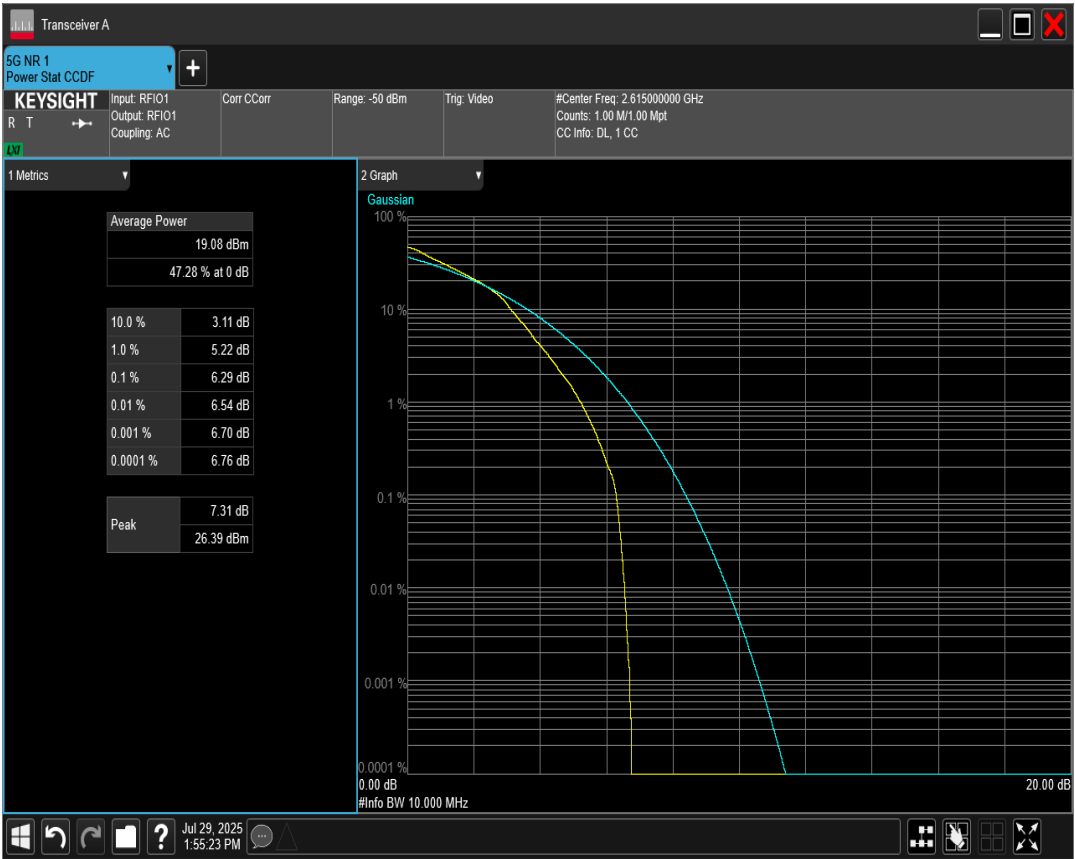
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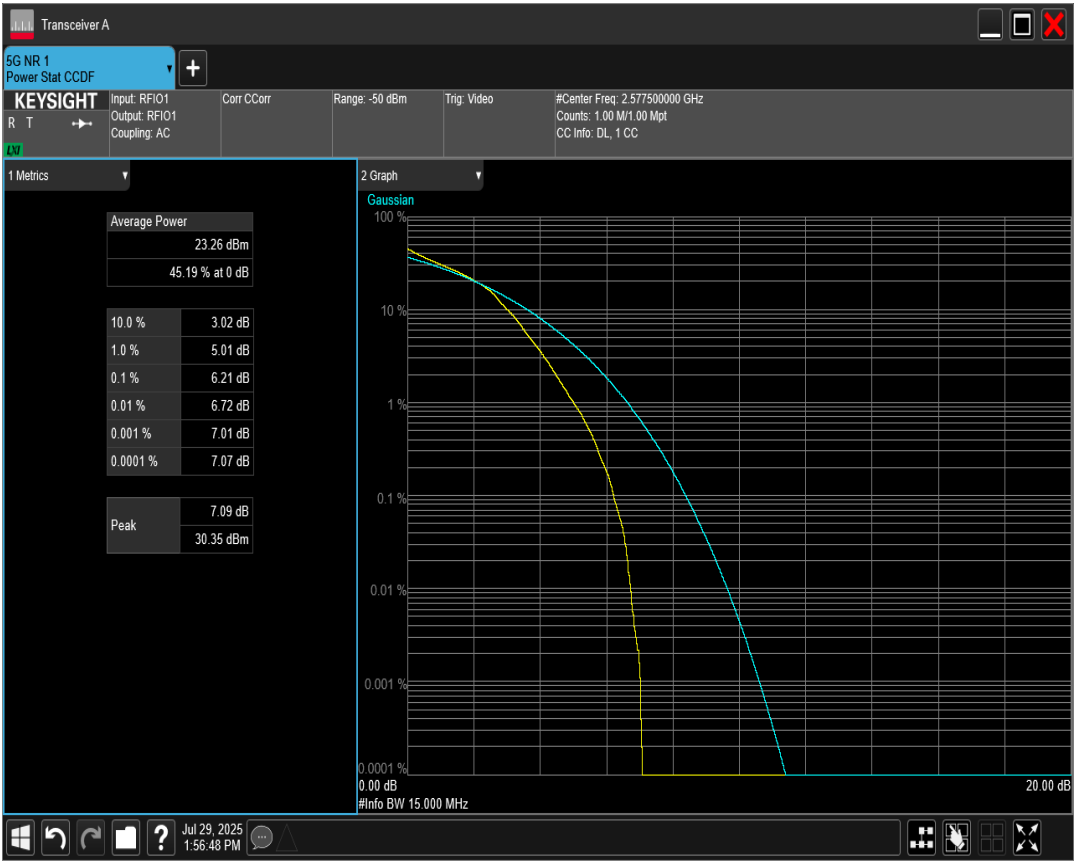
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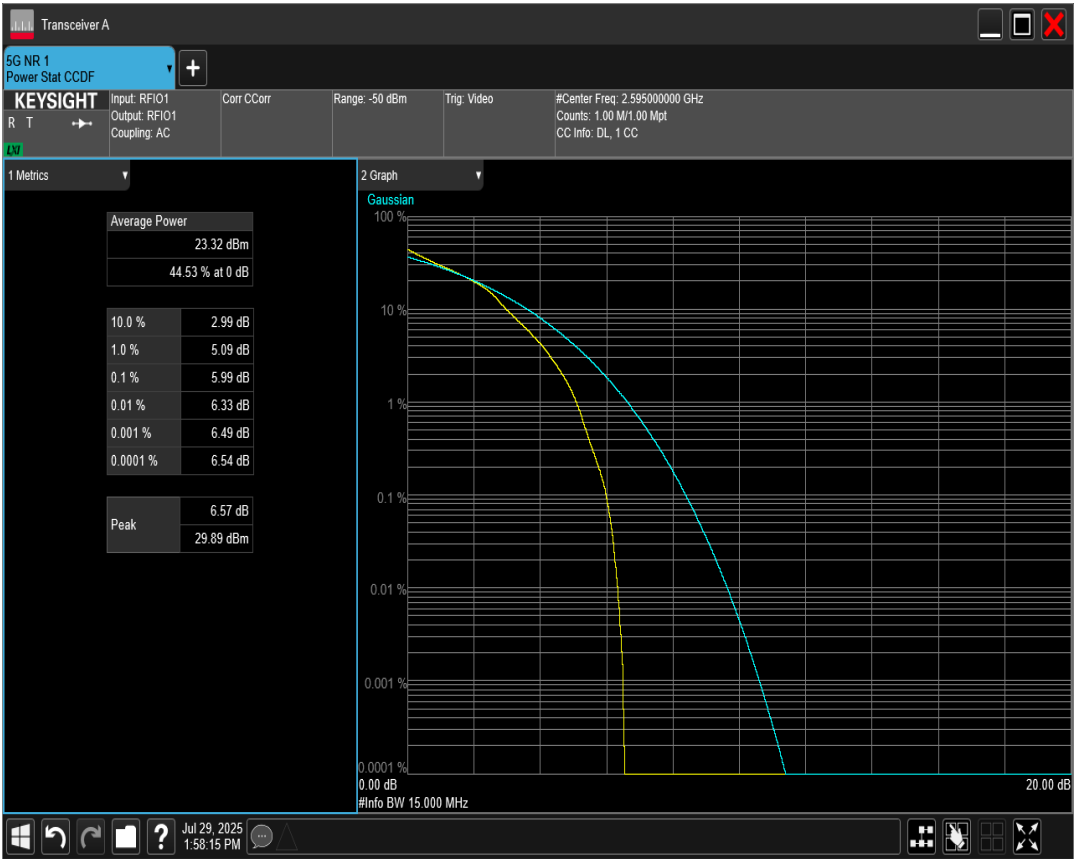
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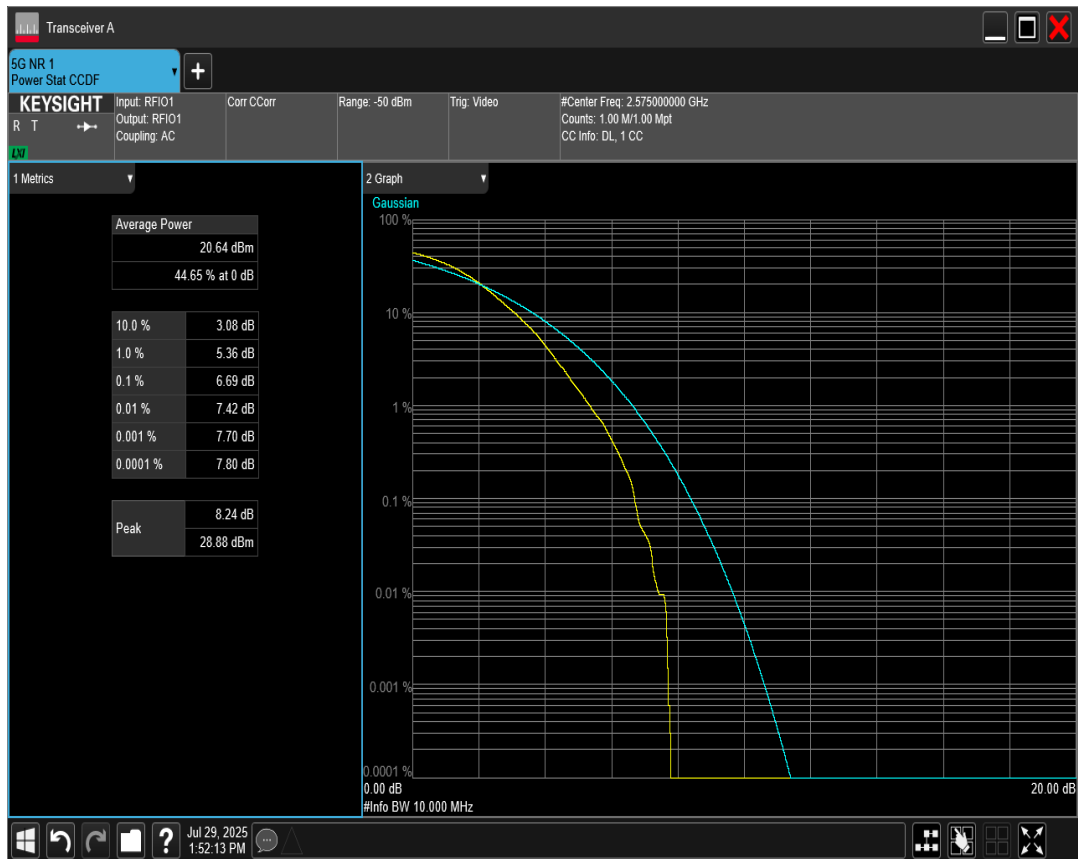
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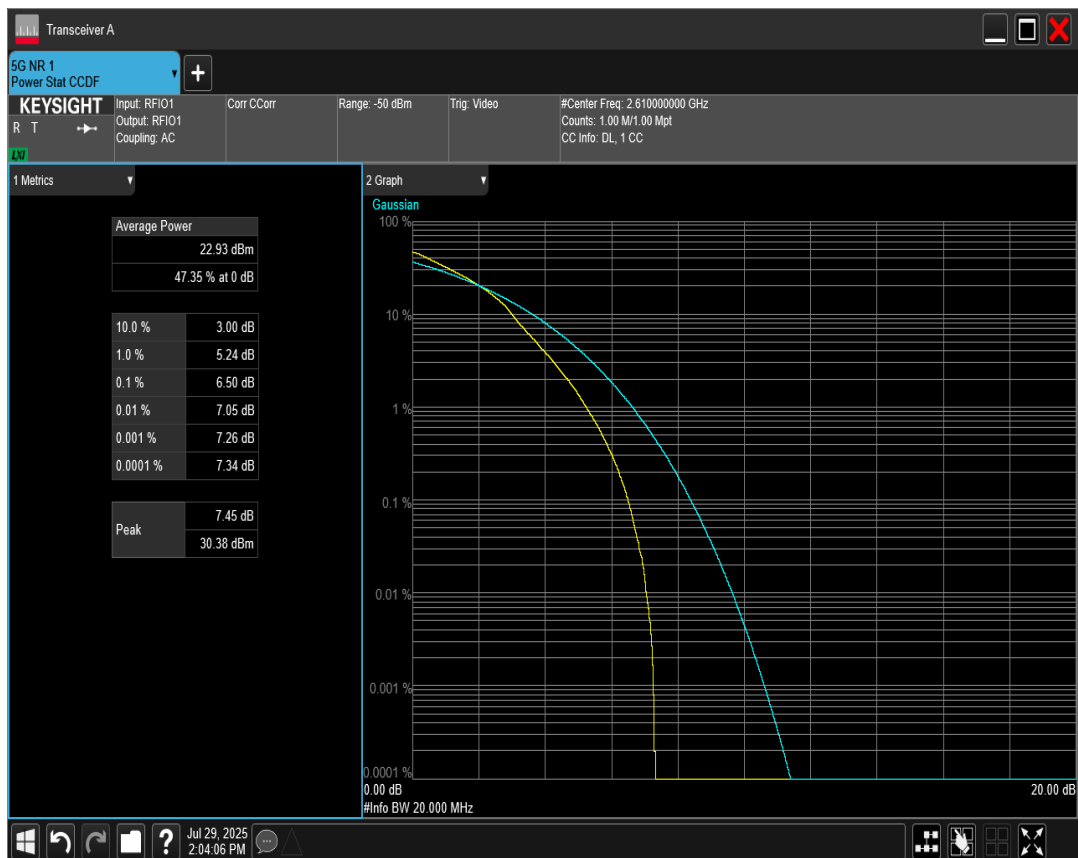
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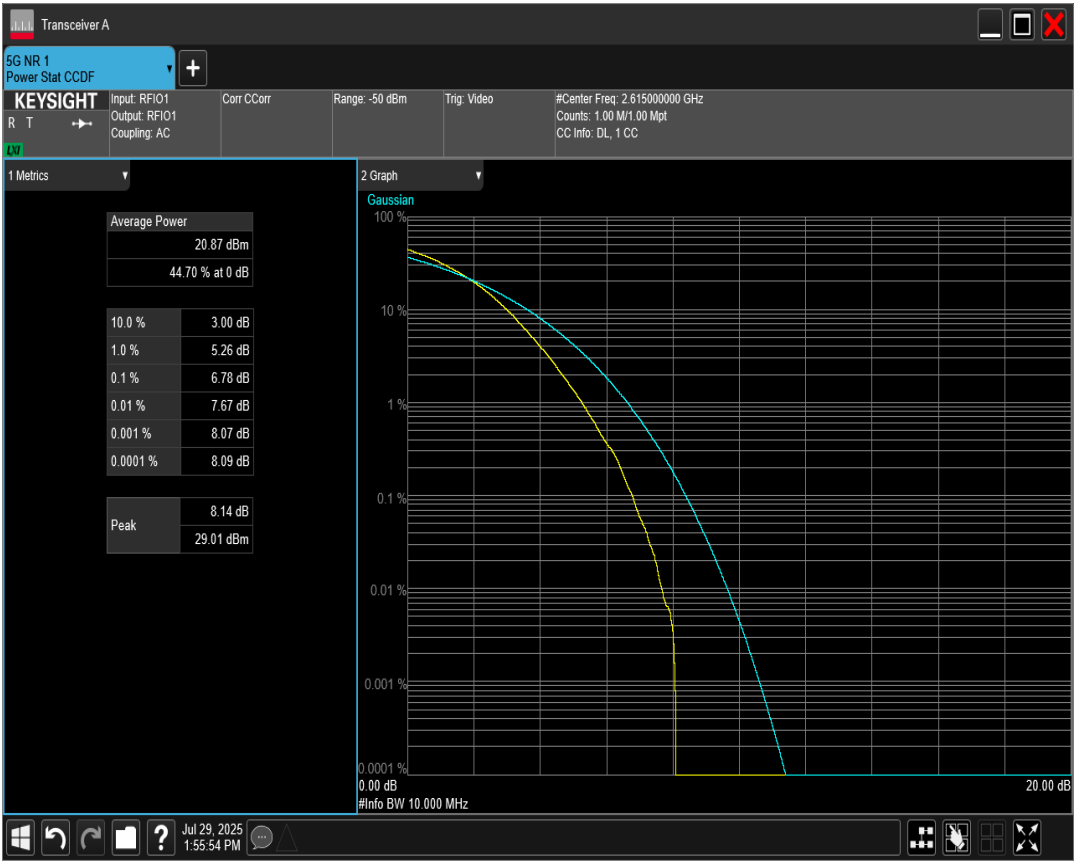
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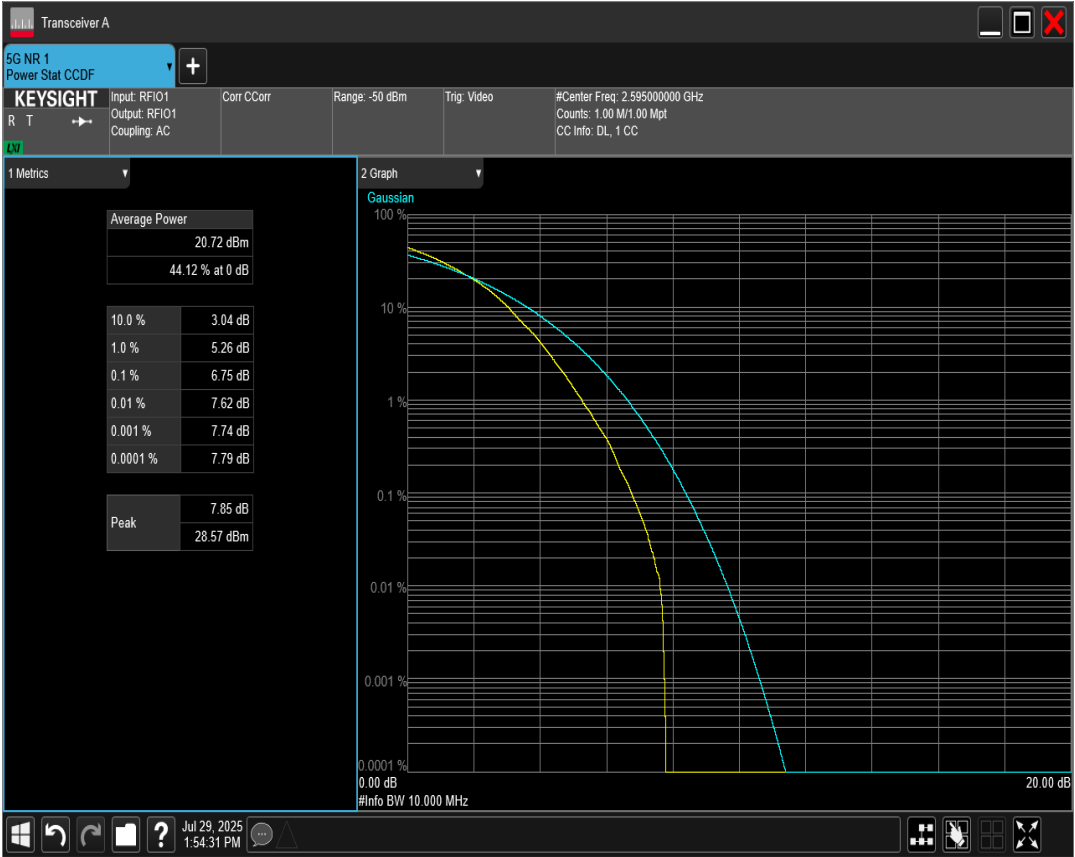
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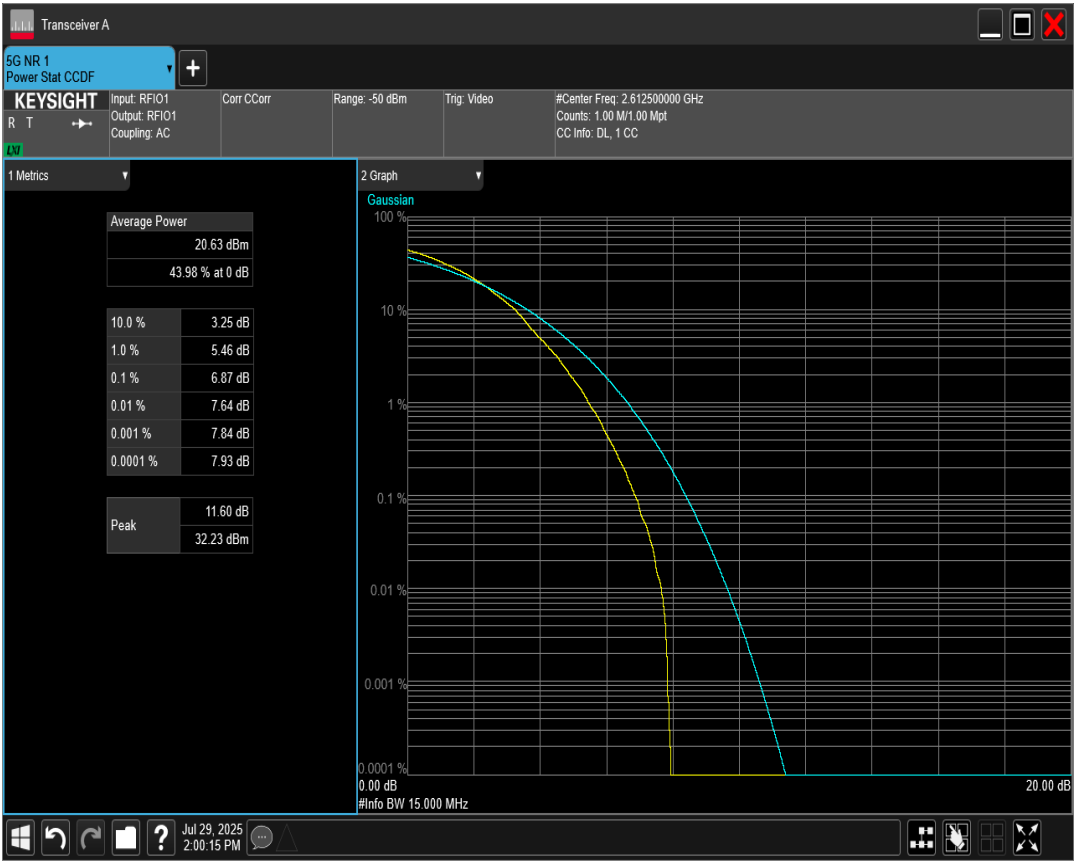
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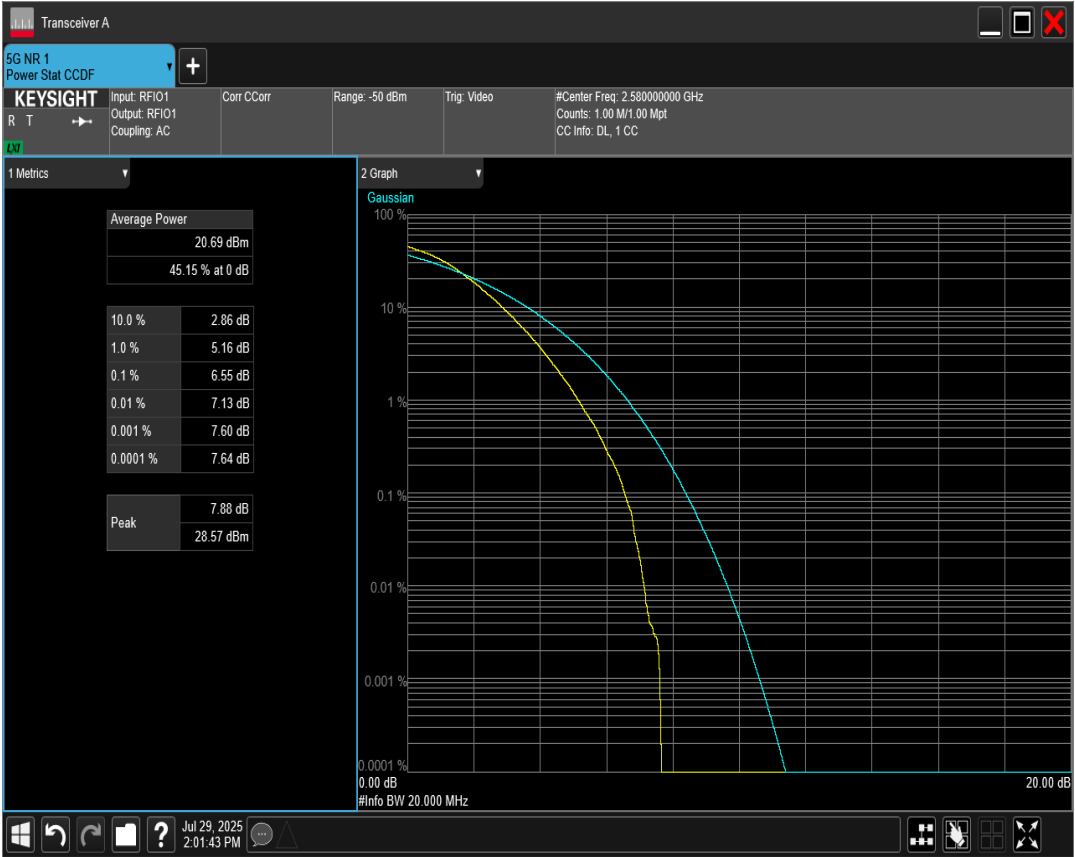
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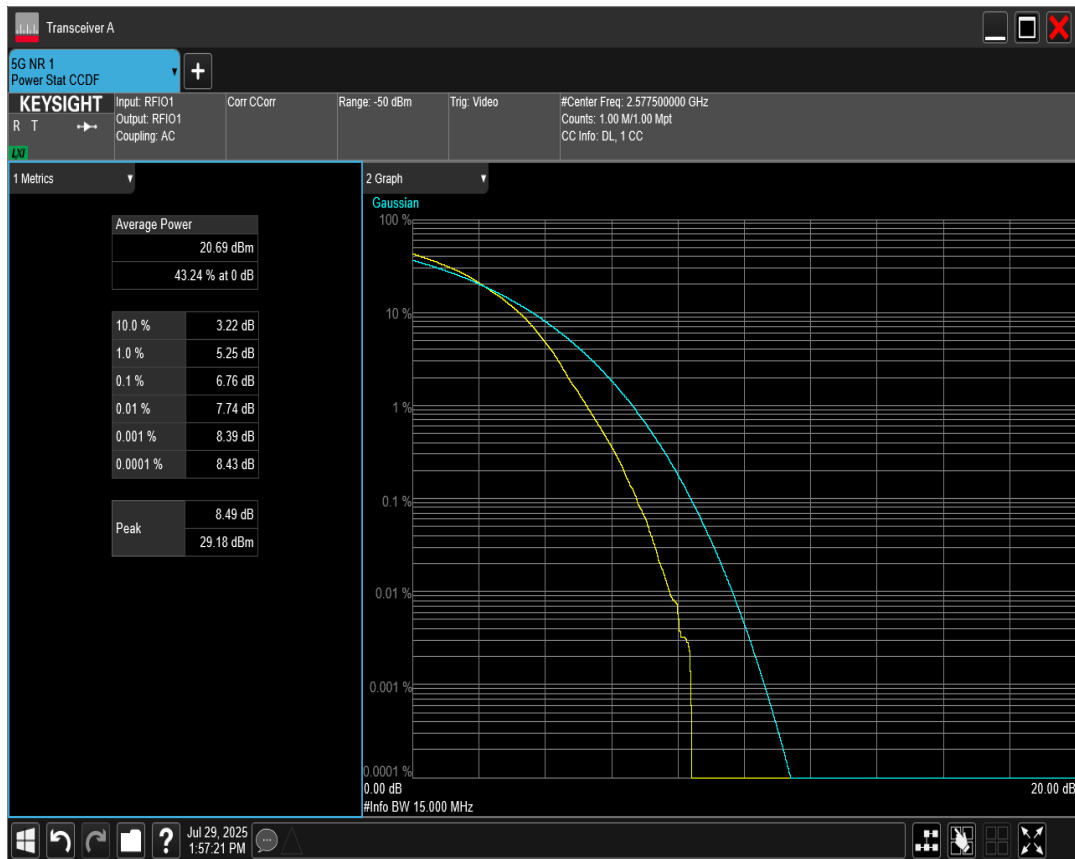
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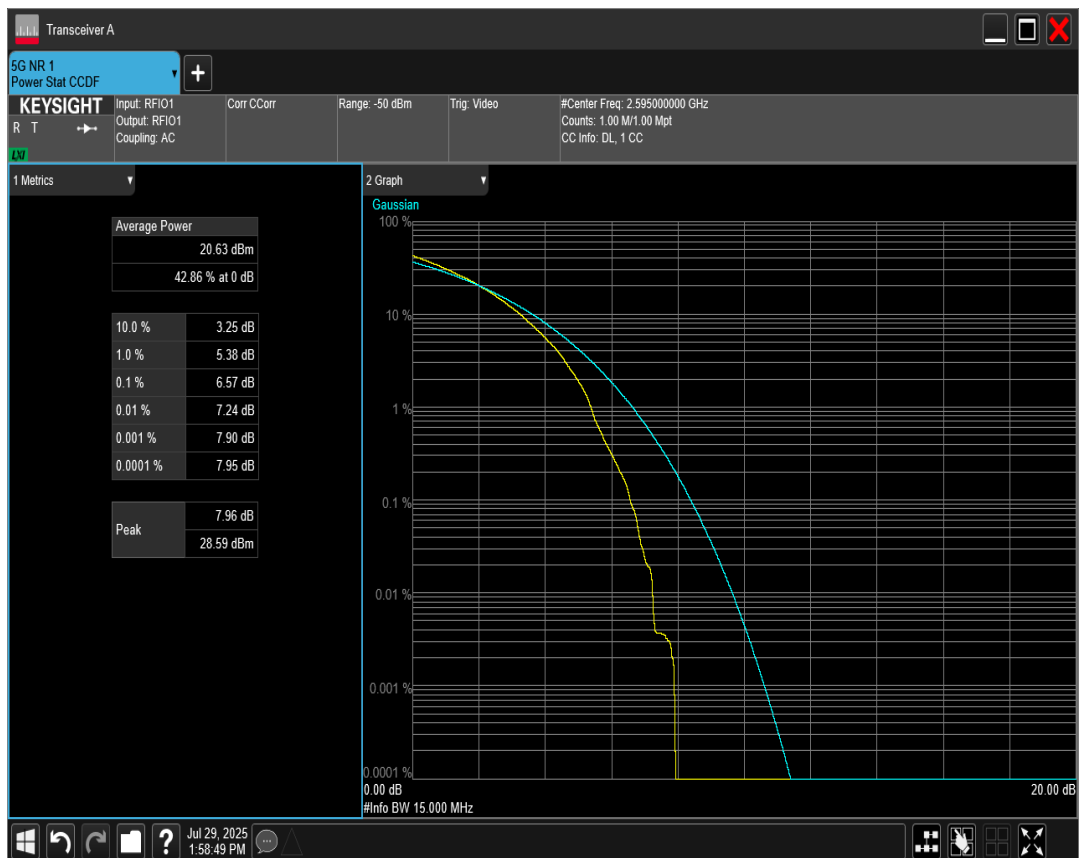
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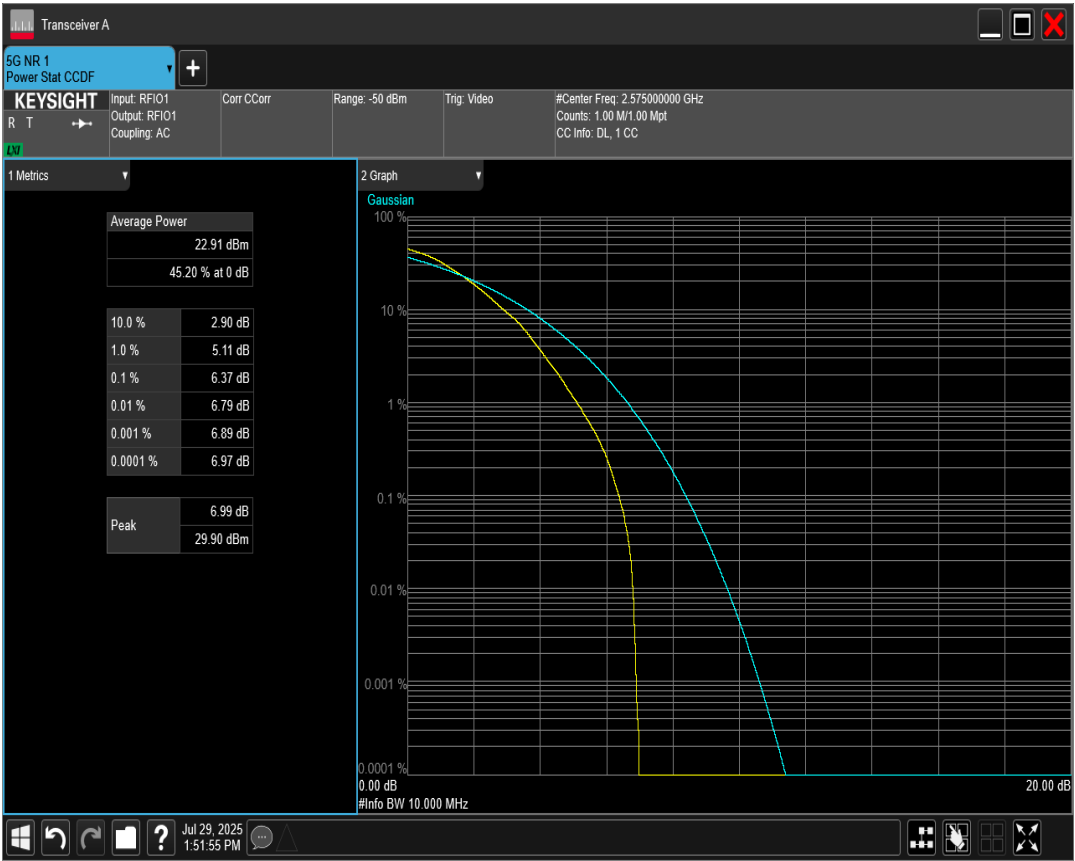
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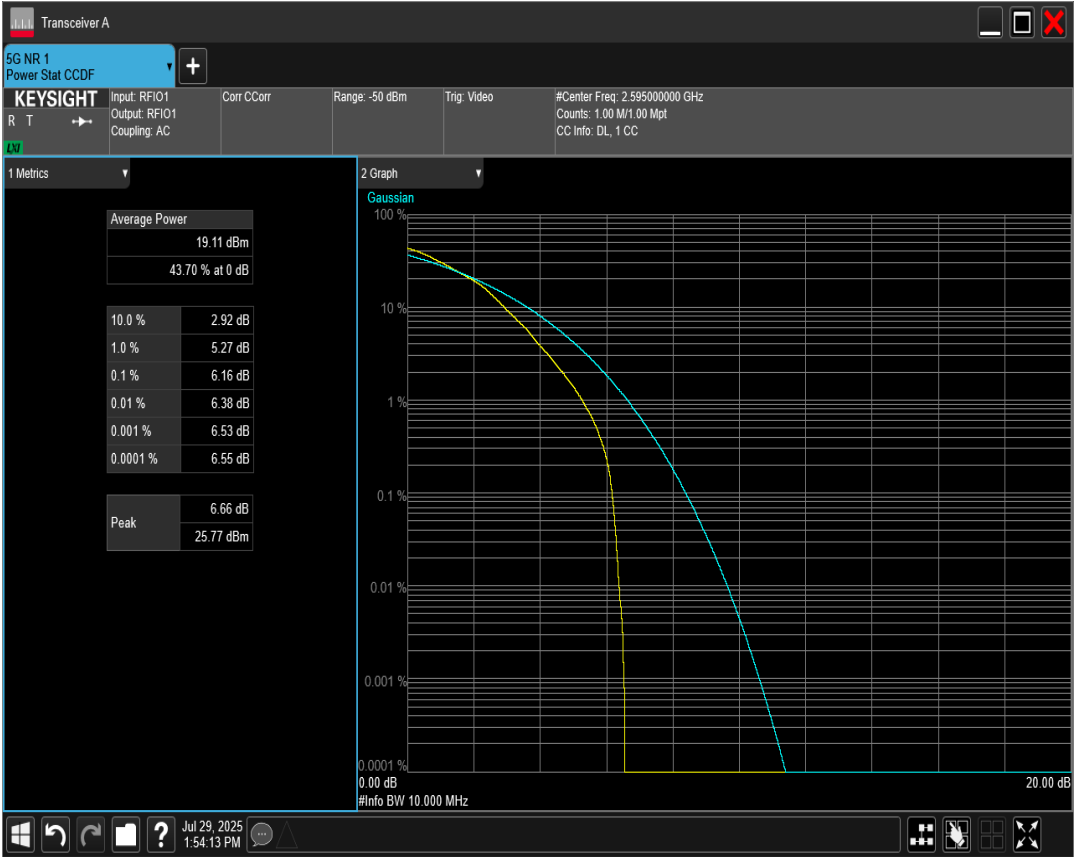
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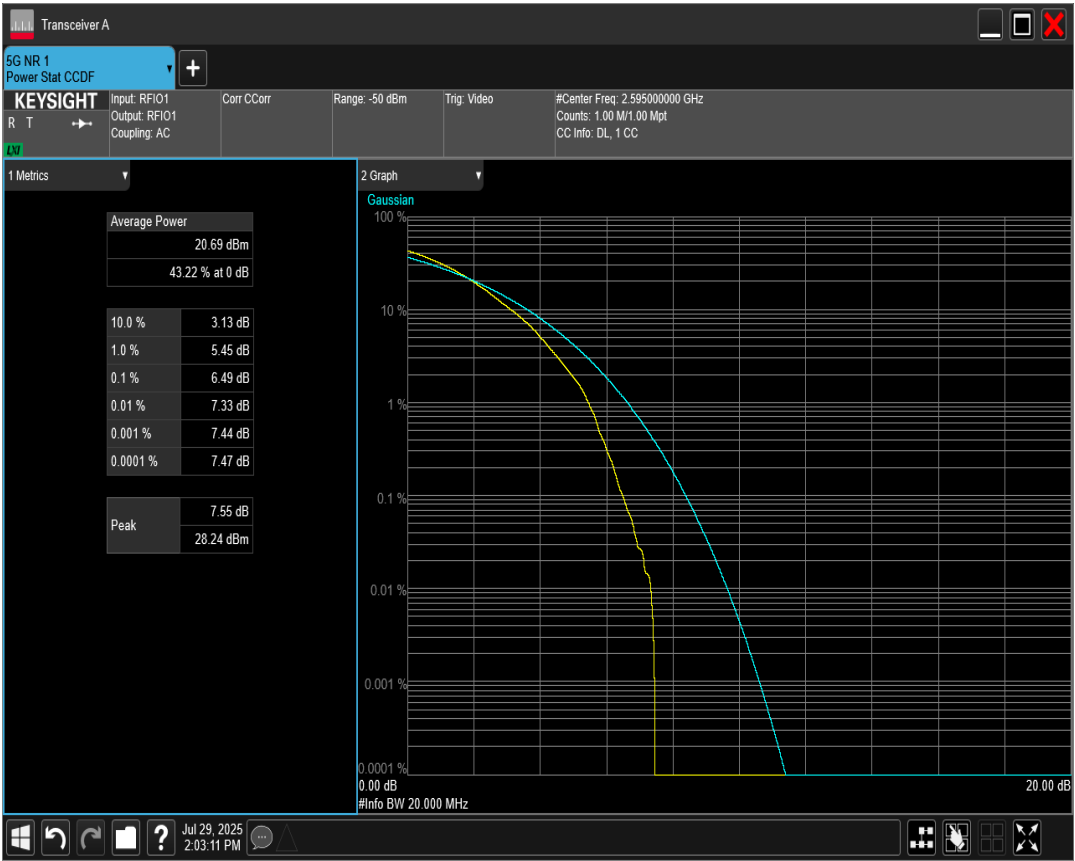
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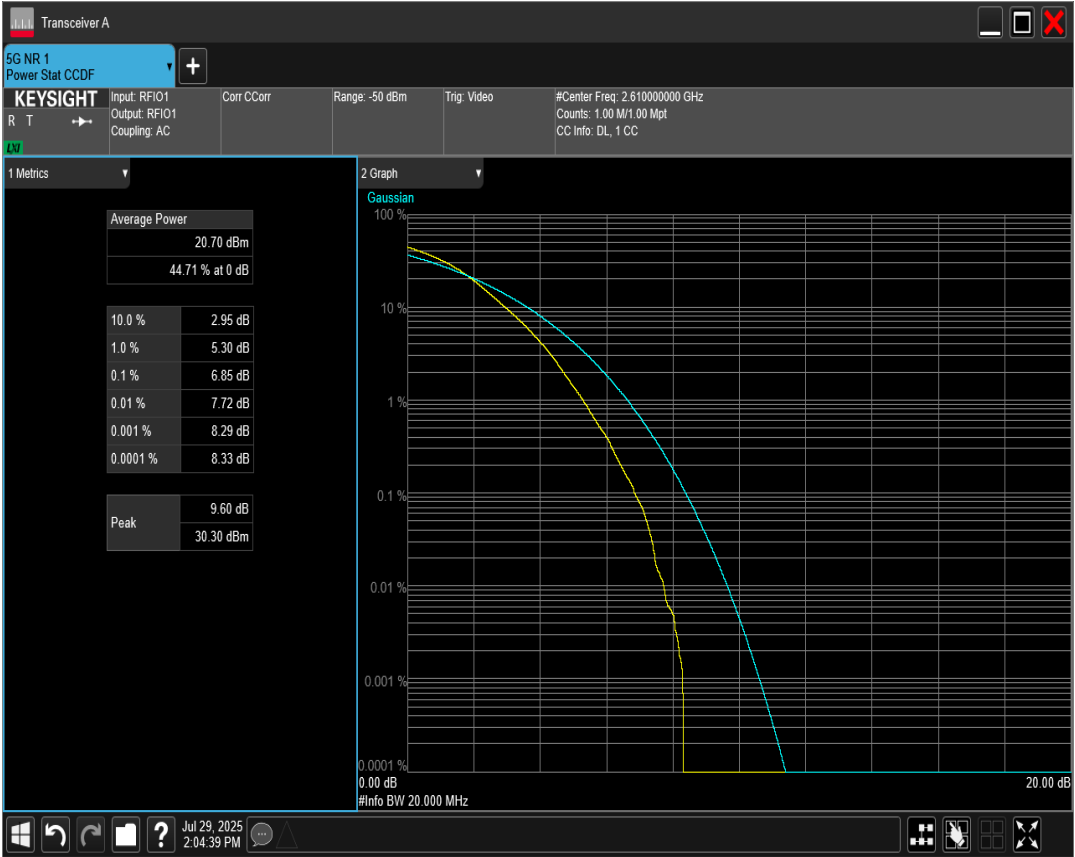
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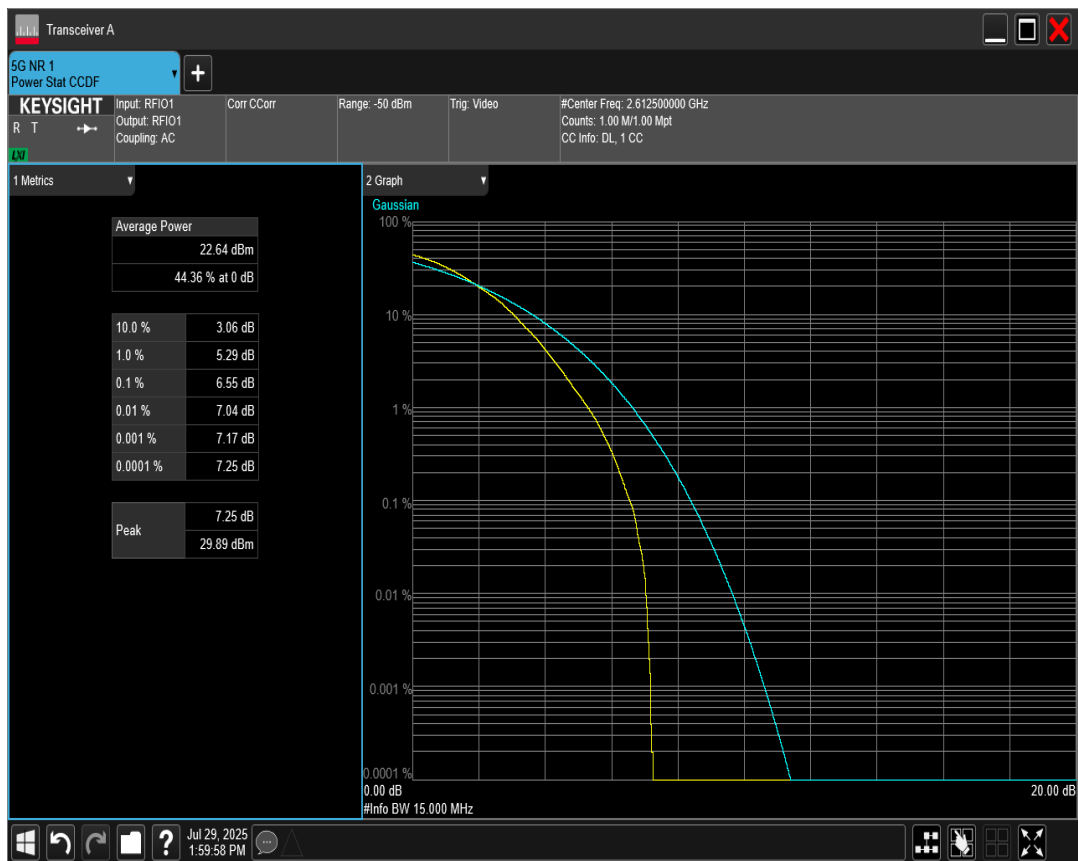
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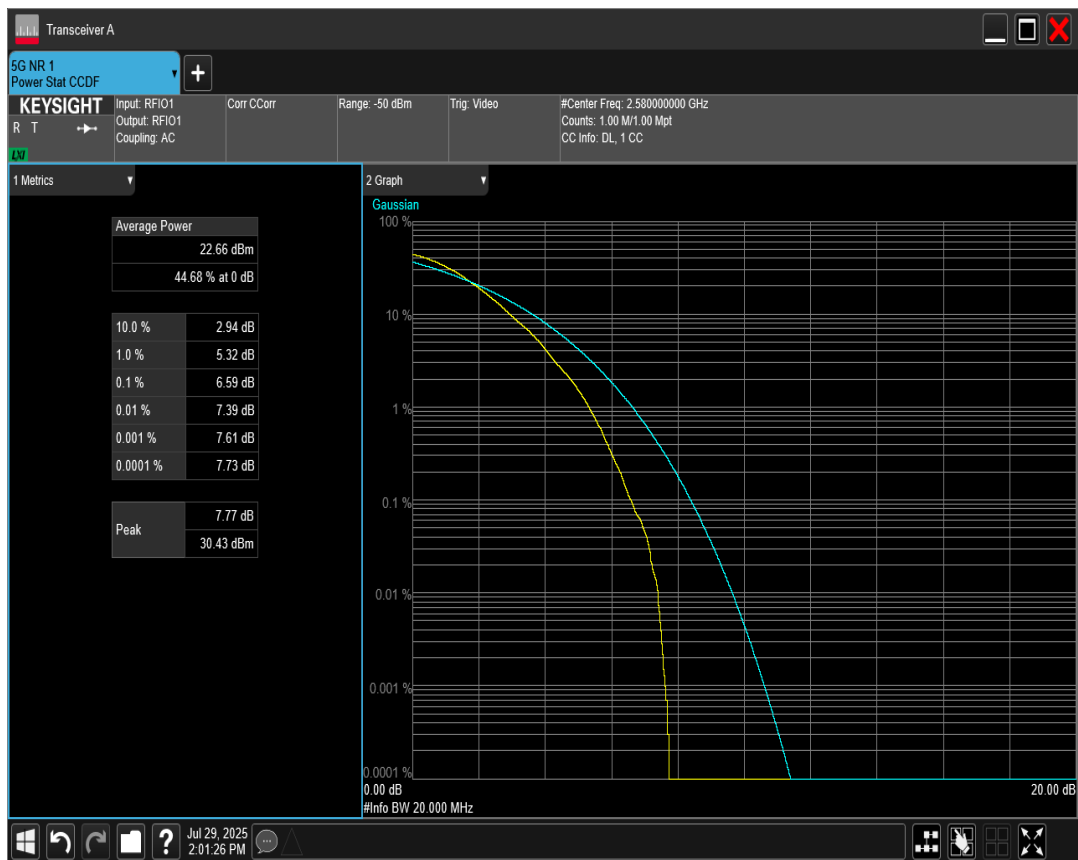
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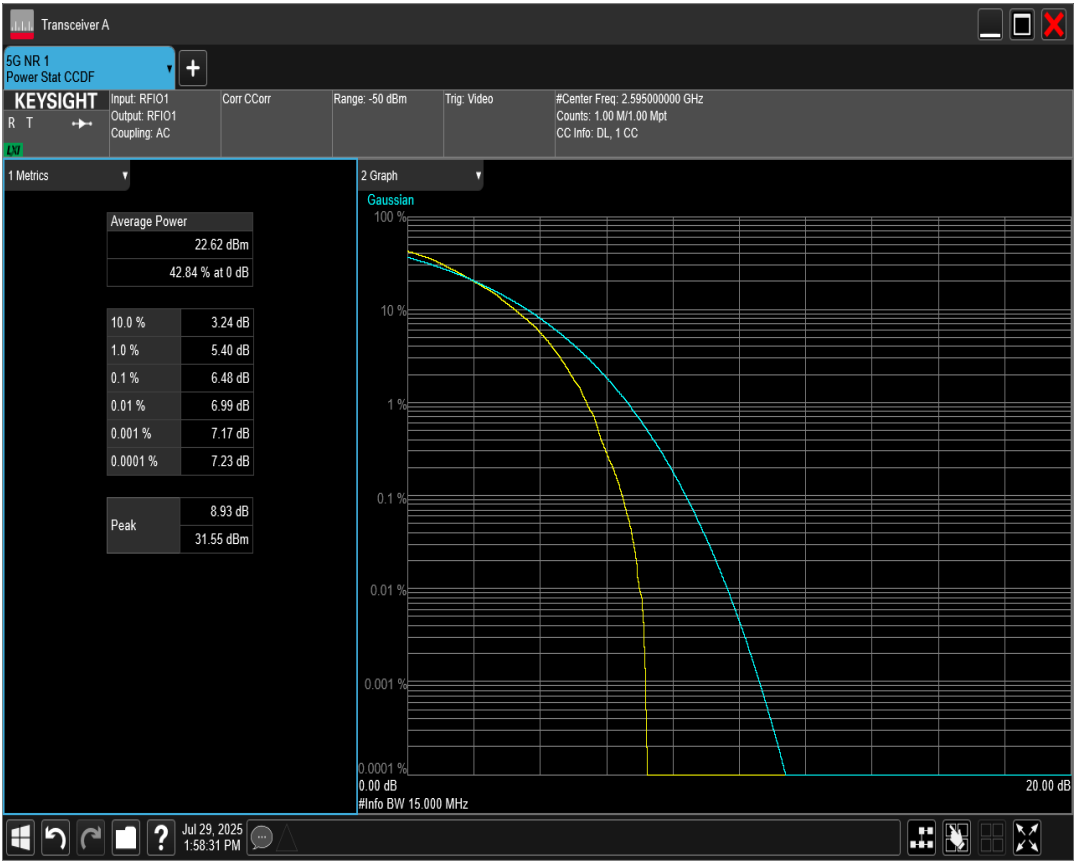
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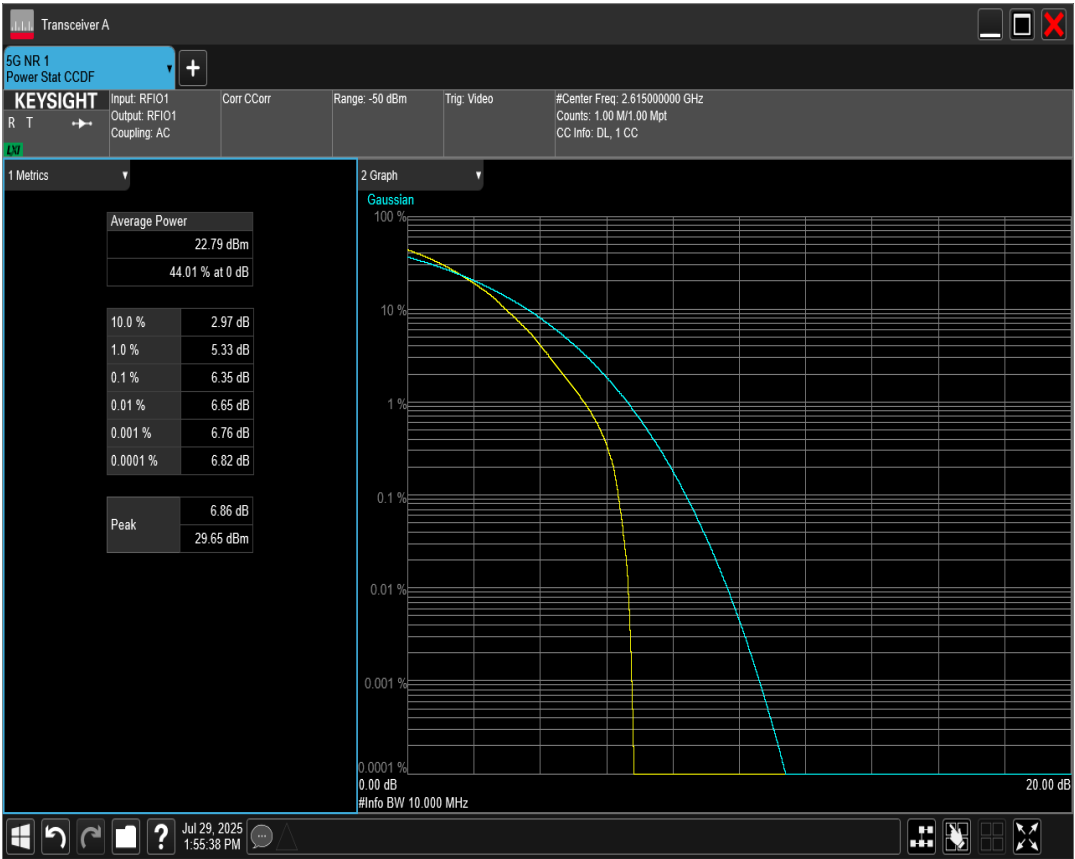
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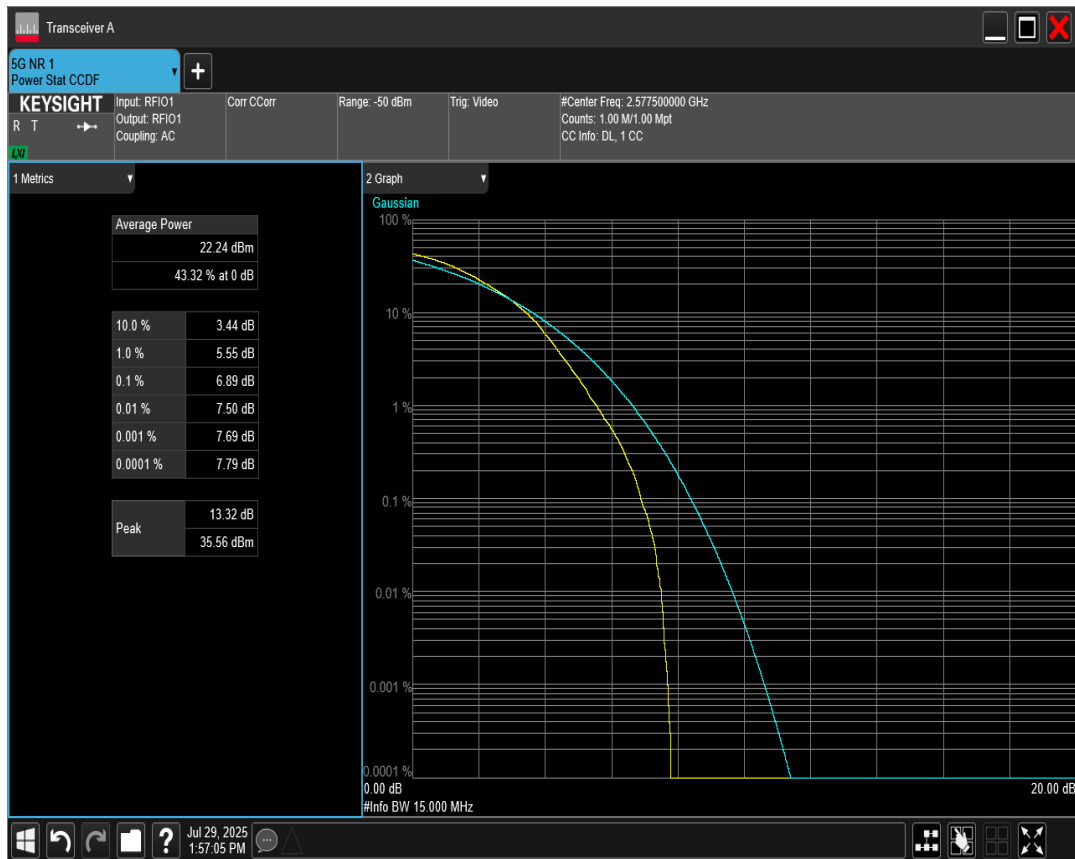
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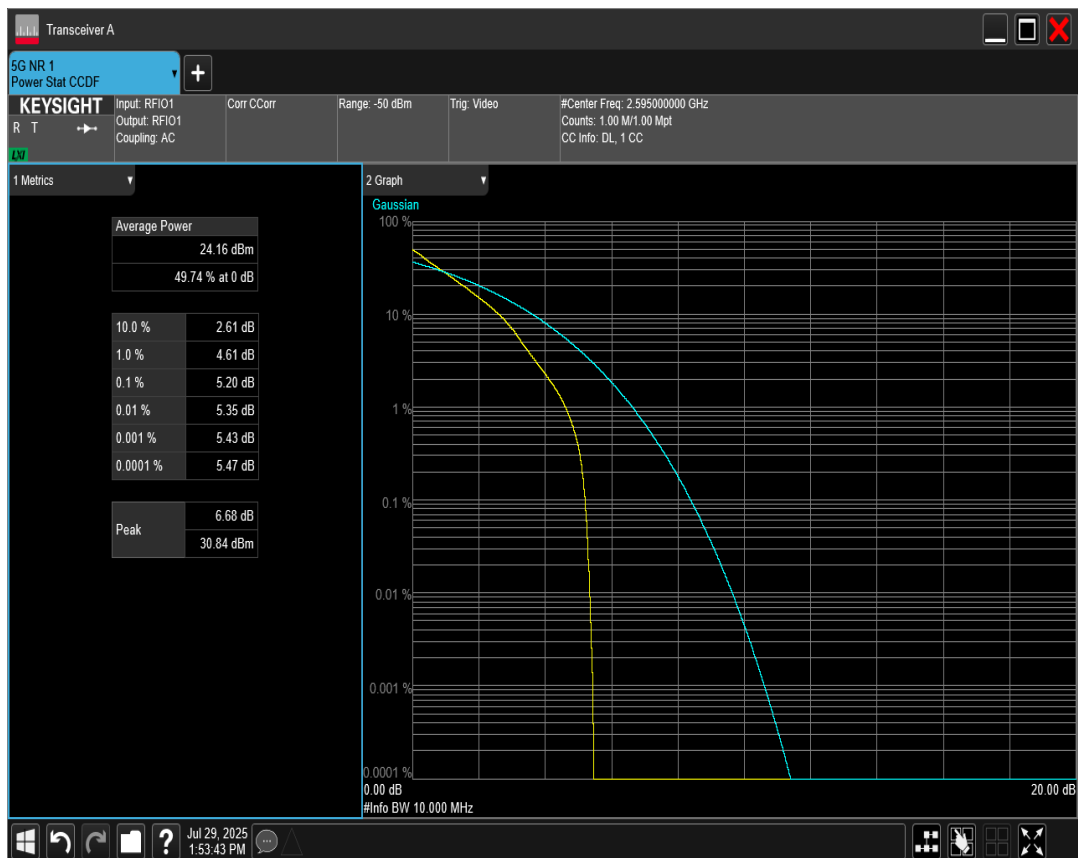
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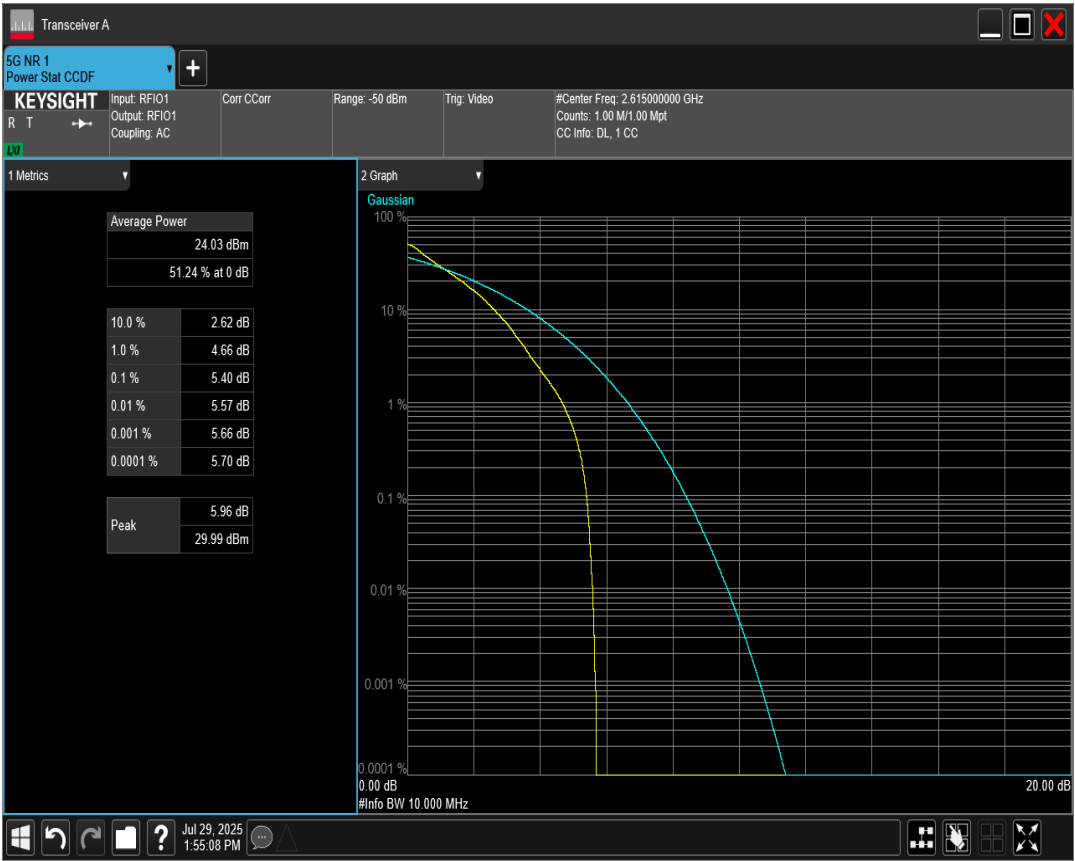
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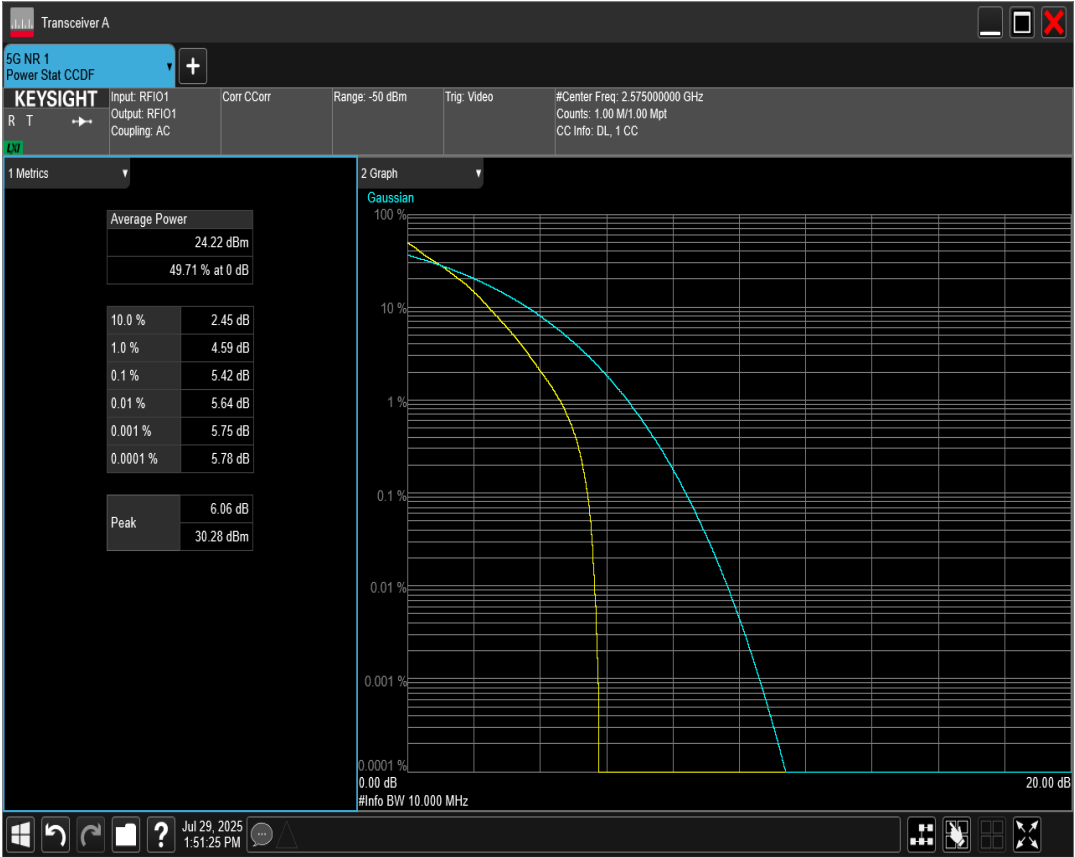
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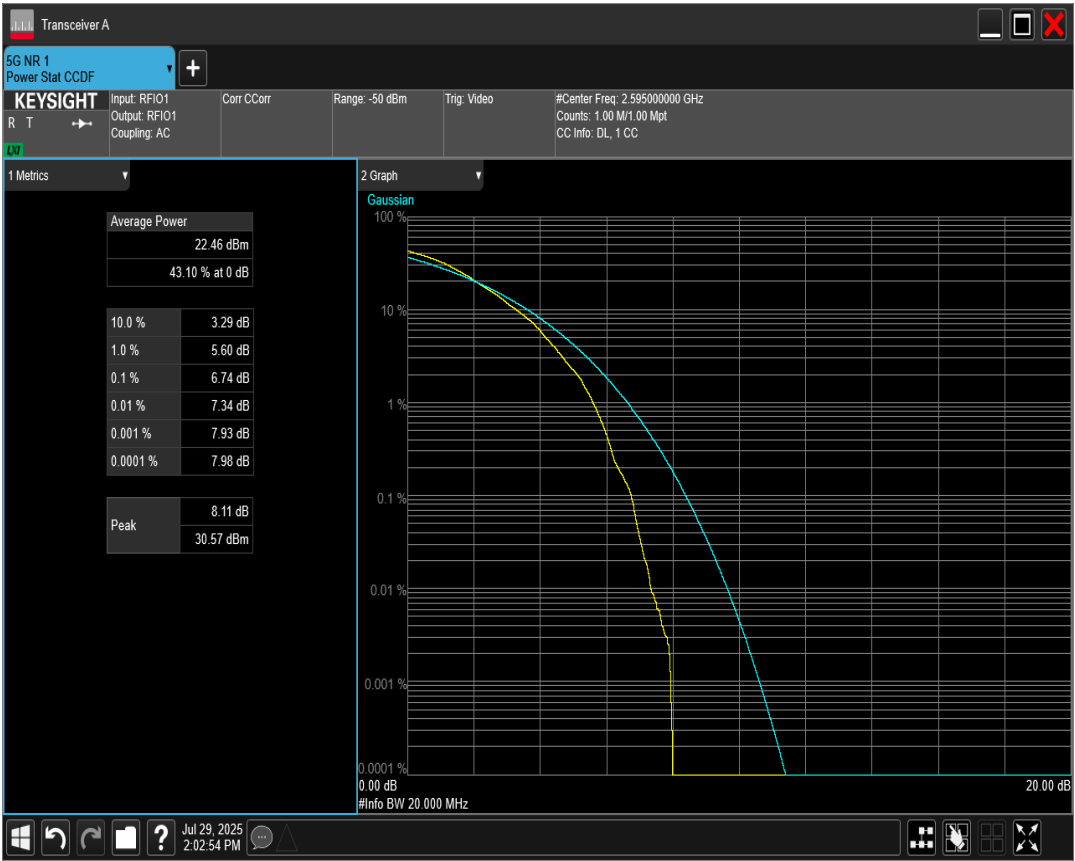
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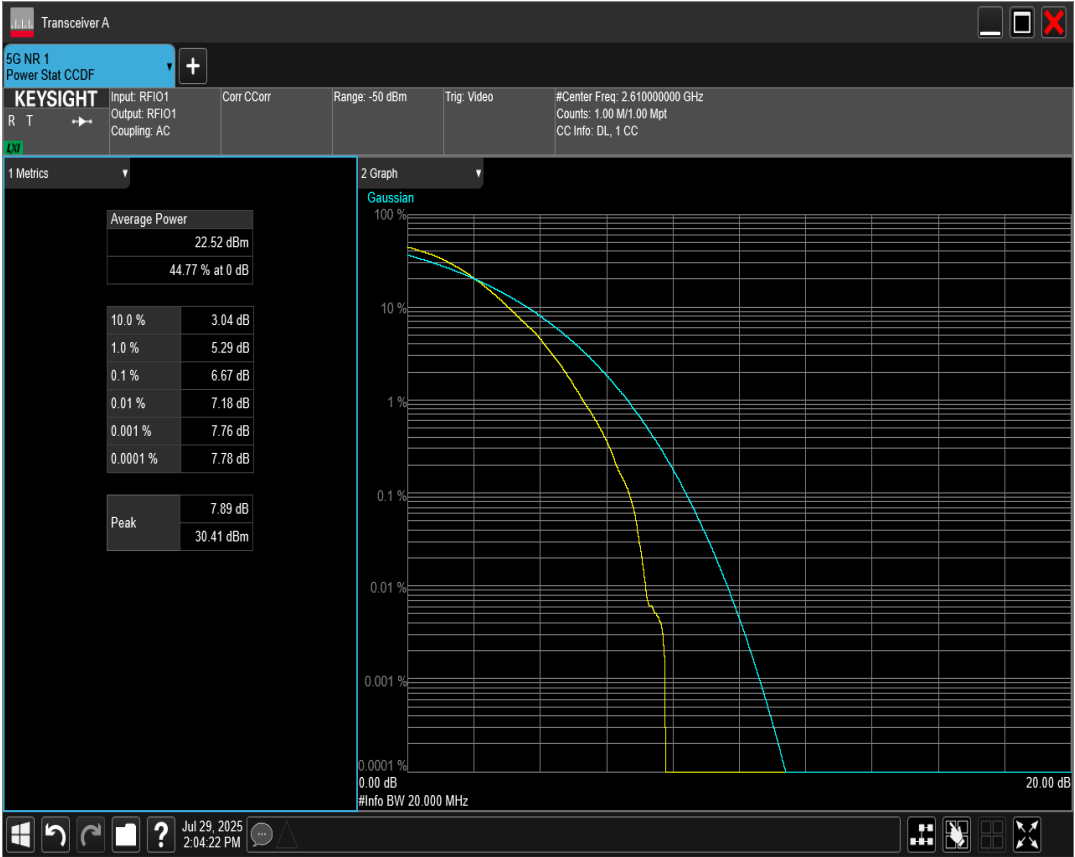
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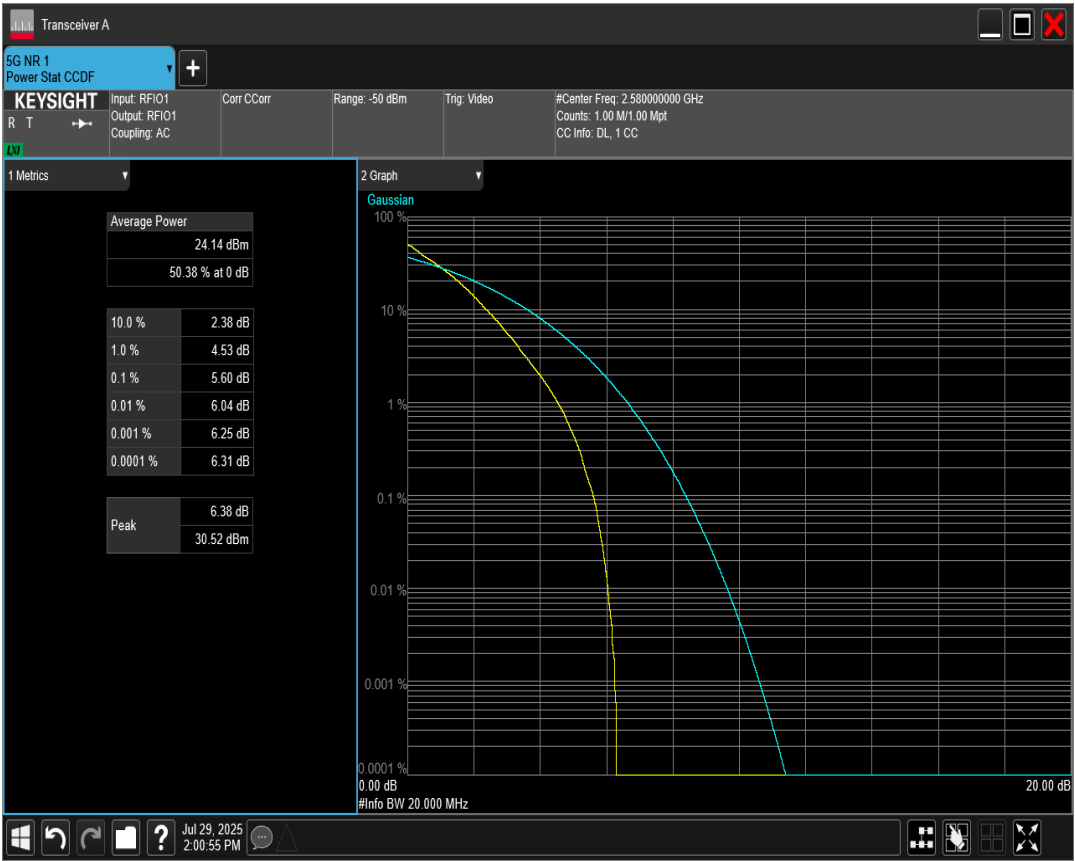
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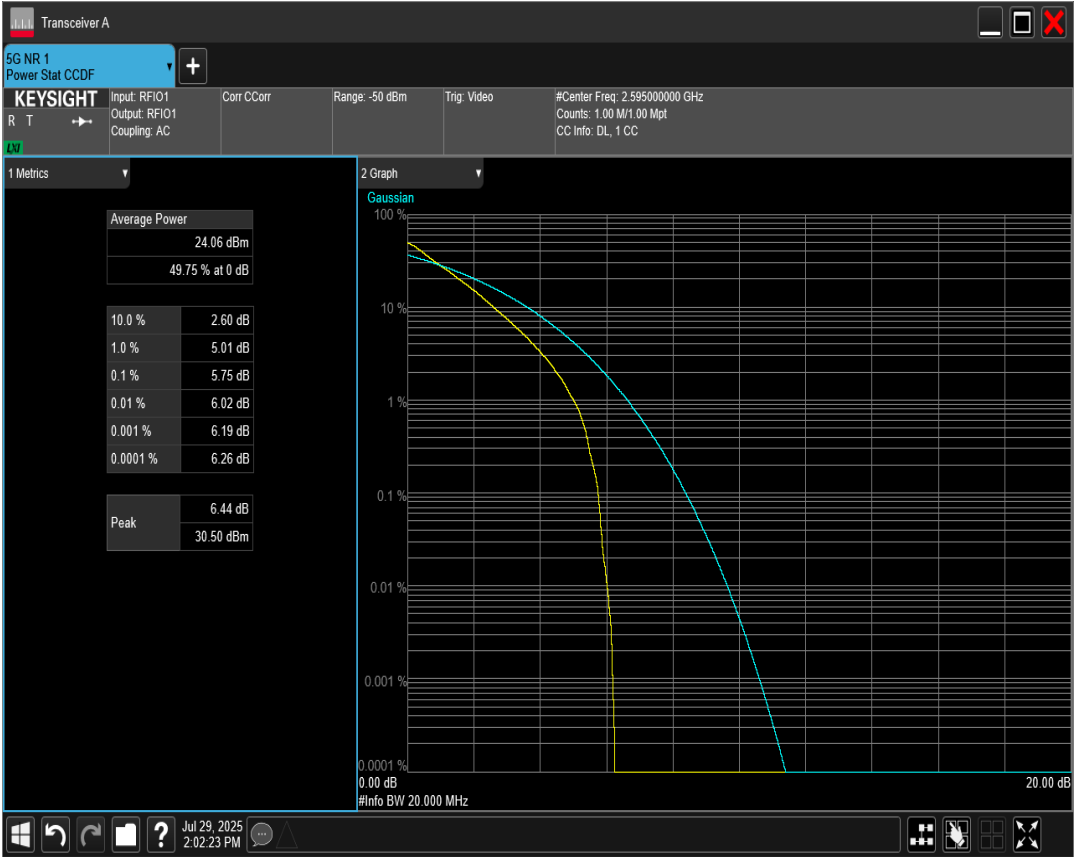
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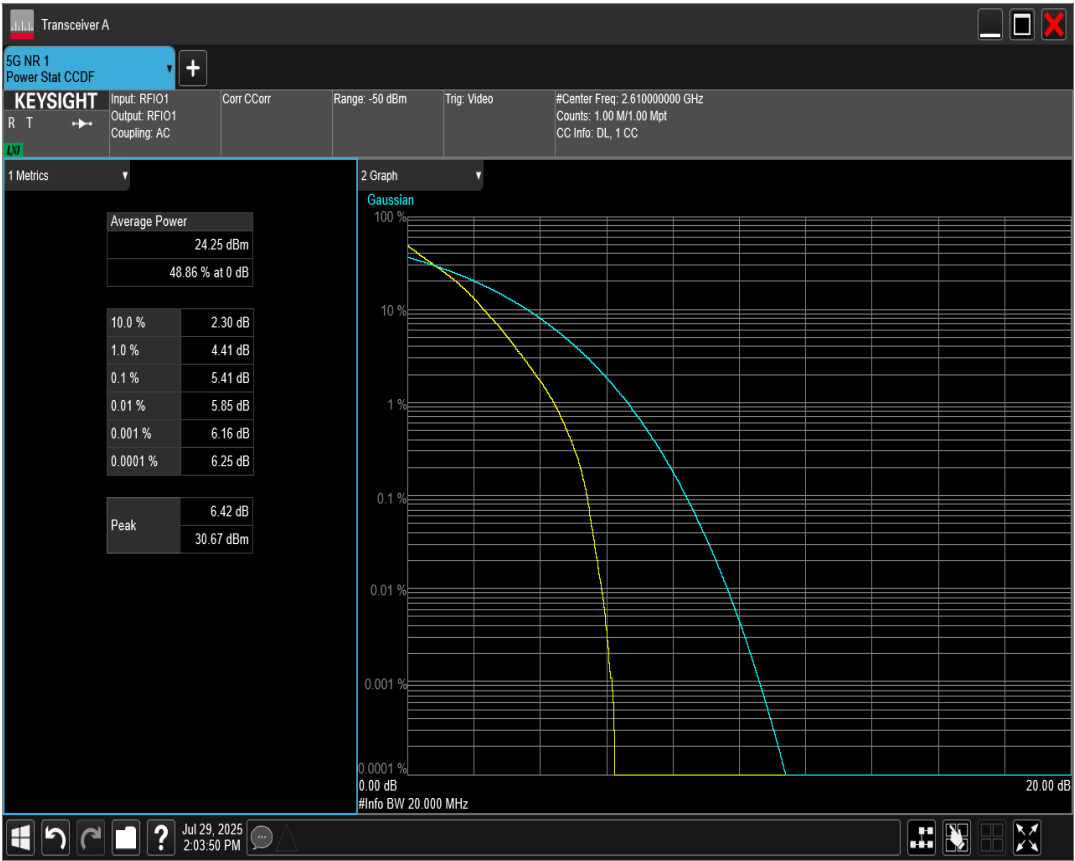
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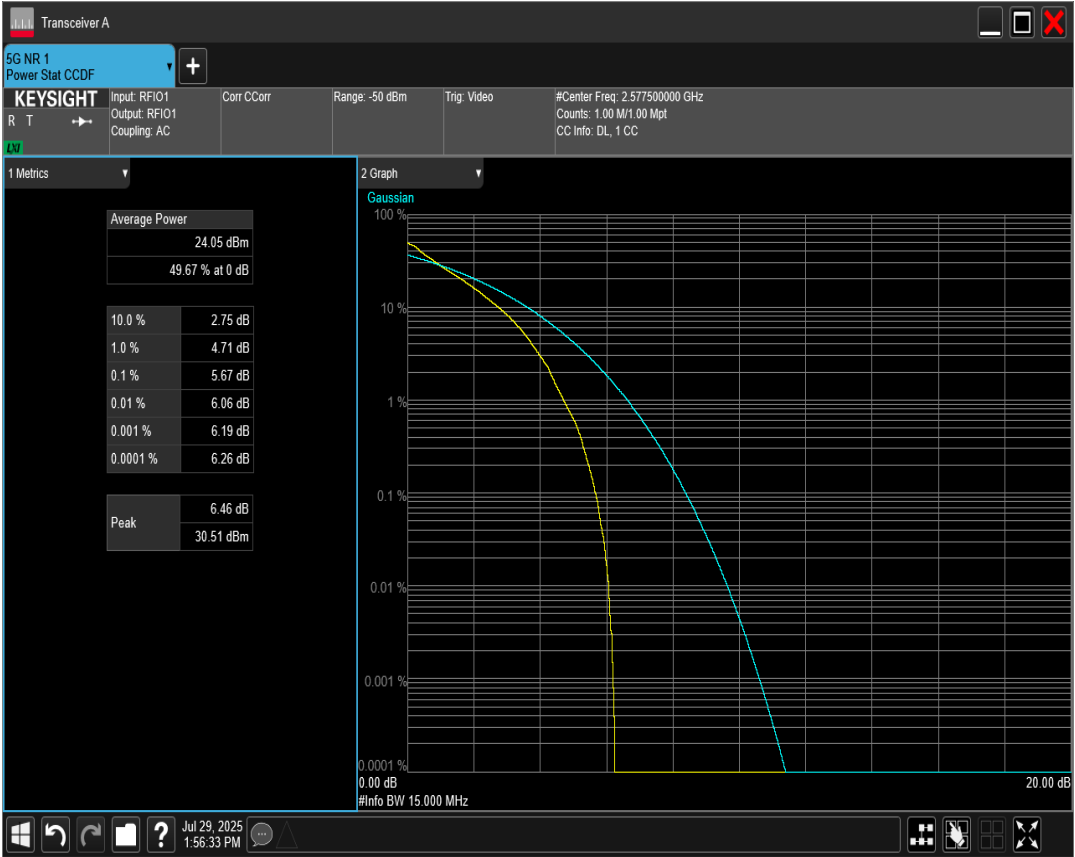
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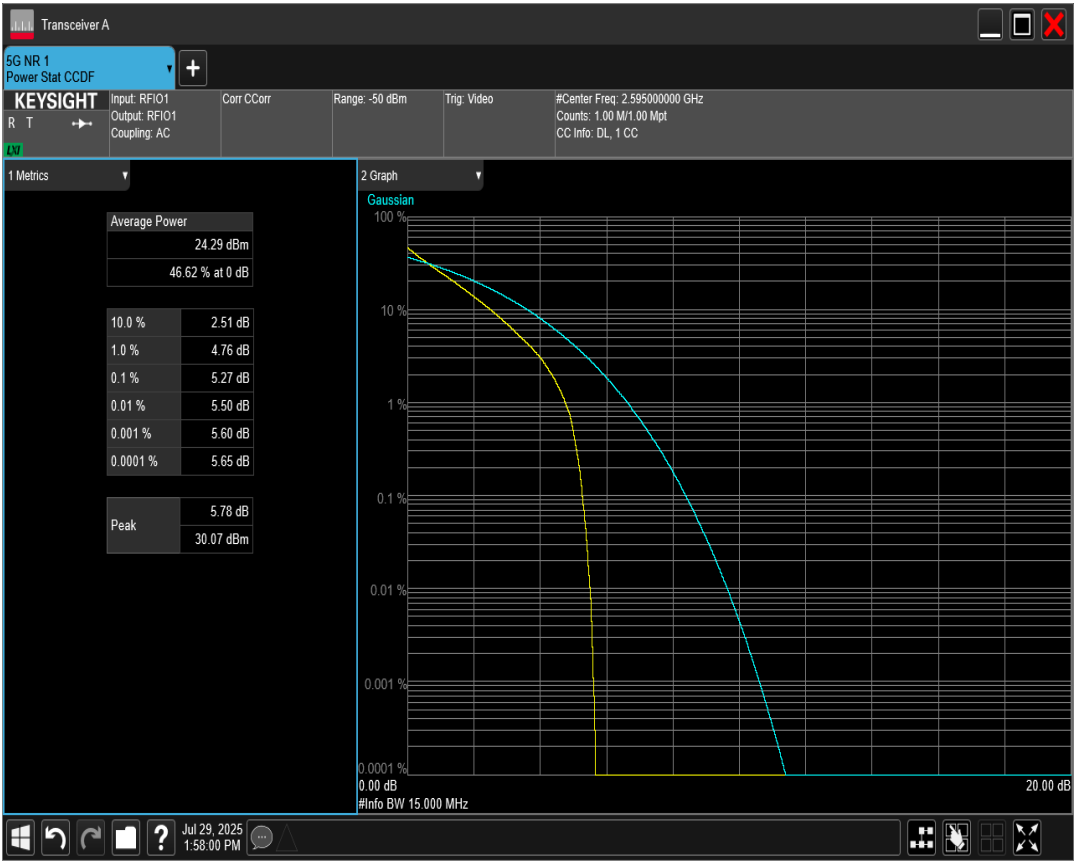
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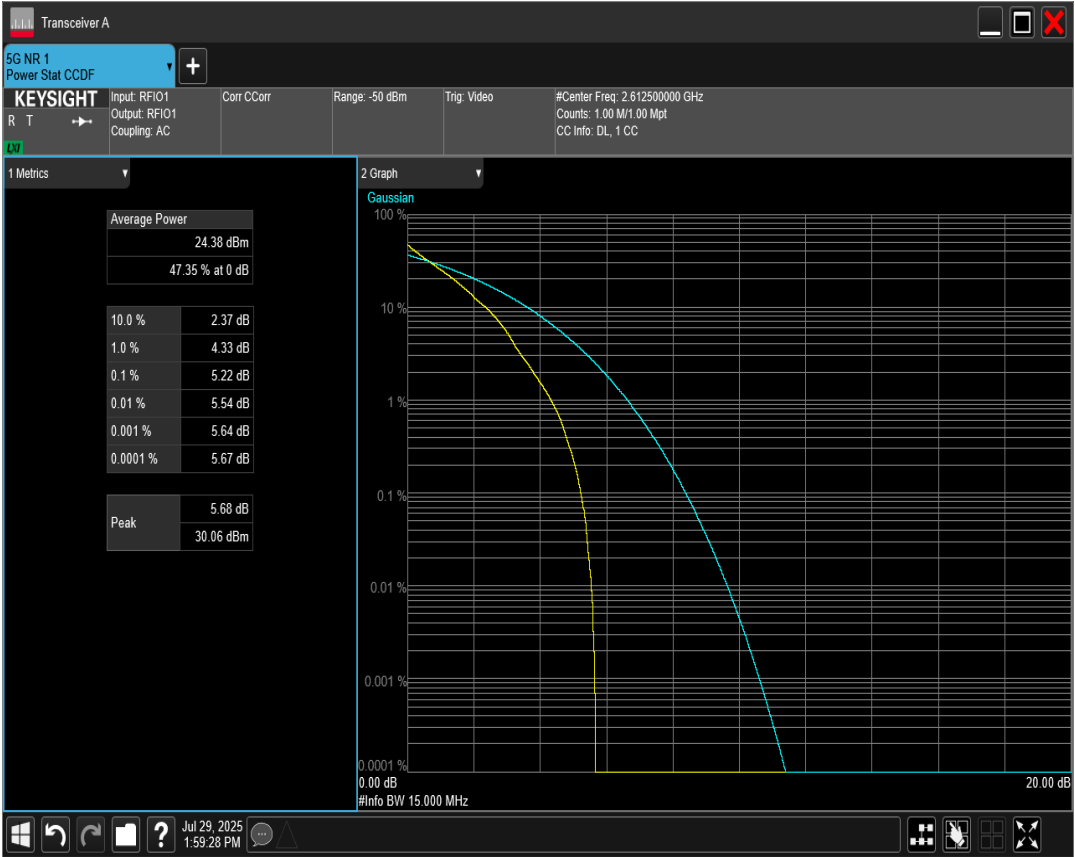
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*n38 SCS=30kHz DFT\_QPSK BW=15MHz Channel=519000 RB=36@0*



*n38 SCS=30kHz DFT\_QPSK BW=15MHz Channel=522500 RB=36@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               | 8.890                 | PASS    |
| n38  | 30           | 10                 | 519000        | 24@0             | DFT_QPSK   | 8.560               | 8.980                 | PASS    |
| n38  | 30           | 10                 | 519000        | 24@0             | DFT_QAM16  | 8.550               | 8.920                 | PASS    |
| n38  | 30           | 10                 | 519000        | 24@0             | DFT_QAM64  | 8.560               | 8.870                 | PASS    |
| n38  | 30           | 10                 | 519000        | 24@0             | DFT_QAM256 | 8.560               | 8.880                 | PASS    |
| n38  | 30           | 15                 | 519000        | 36@0             | DFT_BPSK   | 13.480              | 13.300                | PASS    |
| n38  | 30           | 15                 | 519000        | 36@0             | DFT_QPSK   | 13.500              | 13.310                | PASS    |
| n38  | 30           | 15                 | 519000        | 36@0             | DFT_QAM16  | 13.430              | 13.260                | PASS    |
| n38  | 30           | 15                 | 519000        | 36@0             | DFT_QAM64  | 13.490              | 13.230                | PASS    |
| n38  | 30           | 15                 | 519000        | 36@0             | DFT_QAM256 | 13.440              | 13.230                | PASS    |
| n38  | 30           | 20                 | 519000        | 50@0             | DFT_BPSK   | 18.030              | 18.360                | PASS    |
| n38  | 30           | 20                 | 519000        | 50@0             | DFT_QPSK   | 18.000              | 18.390                | PASS    |
| n38  | 30           | 20                 | 519000        | 50@0             | DFT_QAM16  | 17.960              | 18.270                | PASS    |
| n38  | 30           | 20                 | 519000        | 50@0             | DFT_QAM64  | 17.930              | 18.240                | PASS    |
| n38  | 30           | 20                 | 519000        | 50@0             | DFT_QAM256 | 17.930              | 18.330                | 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\_BPSK BW=20MHz Channel=519000 RB=50@0



n38 SCS=30kHz DFT\_QAM16 BW=10MHz Channel=519000 RB=24@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\_QAM64 BW=10MHz Channel=519000 RB=24@0*



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



*n38 SCS=30kHz DFT\_QAM256 BW=15MHz Channel=519000 RB=36@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\_QPSK BW=20MHz Channel=519000 RB=50@0***



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



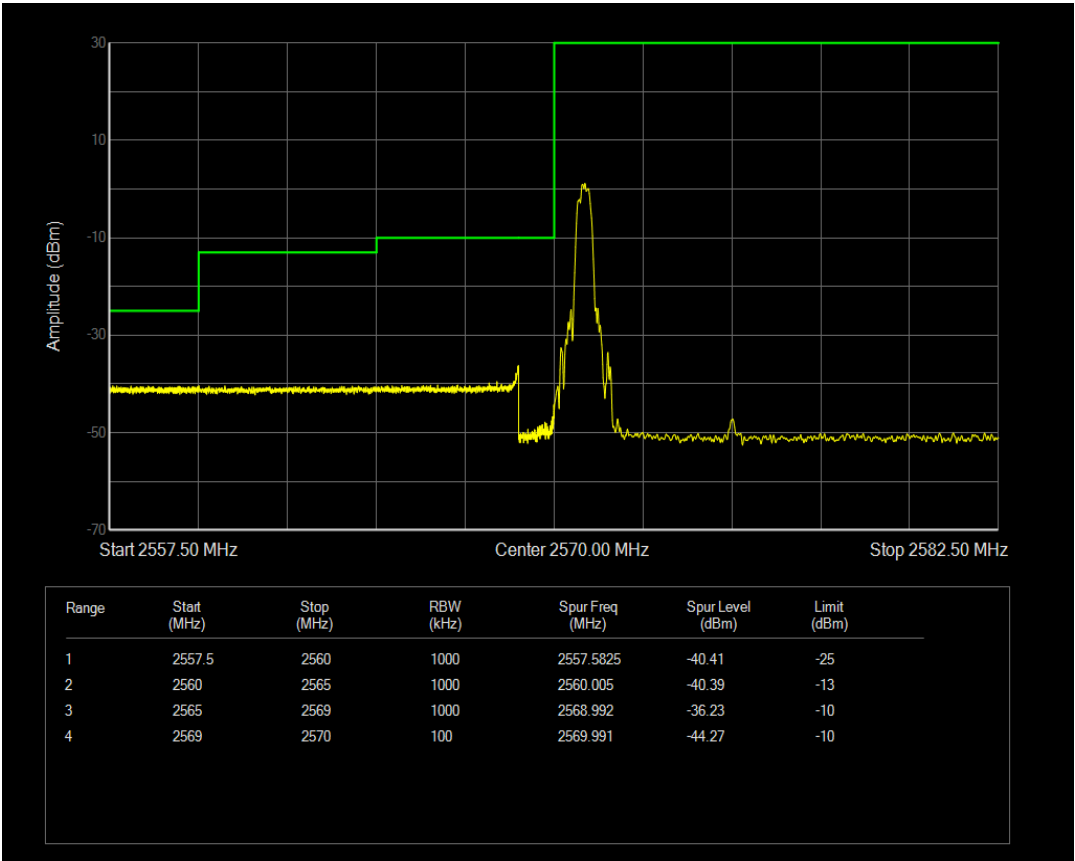
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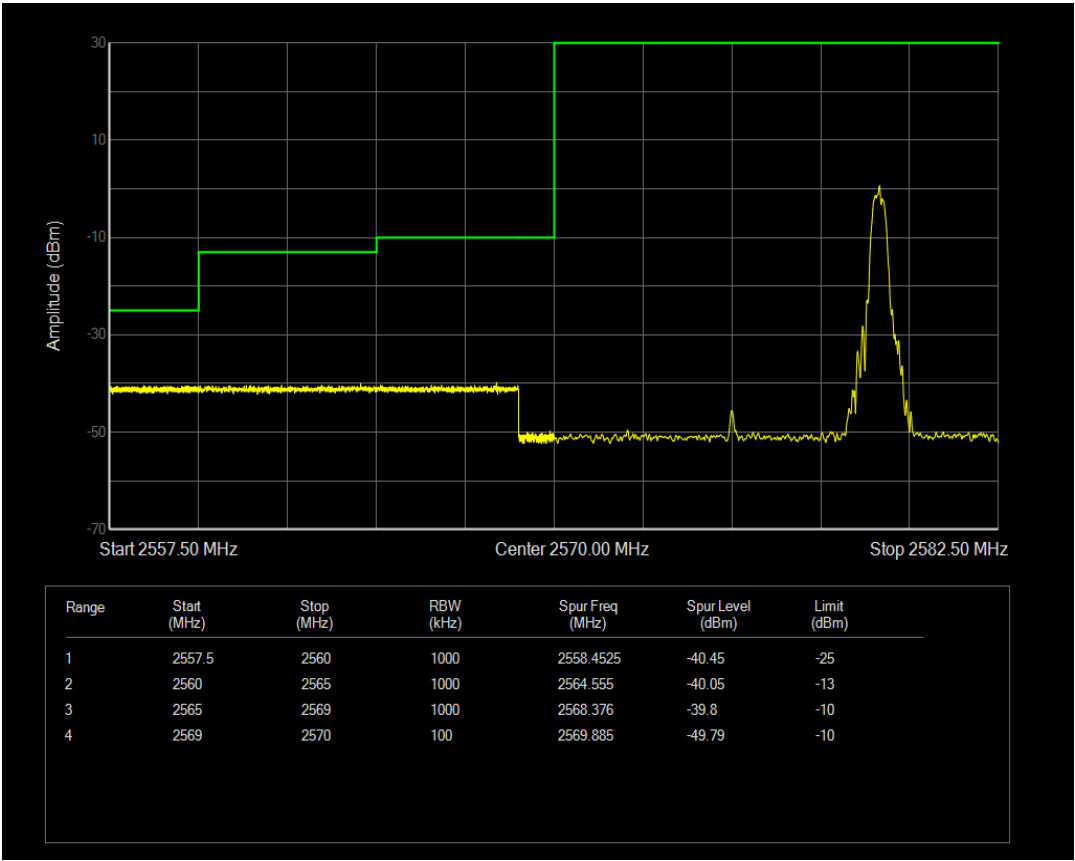
## 5 Band edge for NR FR1

| <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           | 2559.80                        | -39.63                          | -25                    | PASS           |
| n38         | 30                   | 10                         | 515000                | 1@0                      | CP_QPSK           | 2557.58                        | -40.41                          | -25                    | PASS           |
| n38         | 30                   | 10                         | 515000                | 1@23                     | CP_QPSK           | 2558.45                        | -40.45                          | -25                    | PASS           |
| n38         | 30                   | 10                         | 523000                | 24@0                     | CP_QPSK           | 2631.30                        | -37.83                          | -25                    | PASS           |
| n38         | 30                   | 10                         | 523000                | 1@0                      | CP_QPSK           | 2630.56                        | -40.37                          | -25                    | PASS           |
| n38         | 30                   | 10                         | 523000                | 1@23                     | CP_QPSK           | 2632.47                        | -40.49                          | -25                    | PASS           |
| n38         | 30                   | 15                         | 515500                | 38@0                     | CP_QPSK           | 2552.86                        | -39.77                          | -25                    | PASS           |
| n38         | 30                   | 15                         | 515500                | 1@0                      | CP_QPSK           | 2552.17                        | -40.34                          | -25                    | PASS           |
| n38         | 30                   | 15                         | 515500                | 1@37                     | CP_QPSK           | 2551.51                        | -40.22                          | -25                    | PASS           |
| n38         | 30                   | 15                         | 522500                | 38@0                     | CP_QPSK           | 2635.08                        | -38.67                          | -25                    | PASS           |
| n38         | 30                   | 15                         | 522500                | 1@0                      | CP_QPSK           | 2636.95                        | -40.18                          | -25                    | PASS           |
| n38         | 30                   | 15                         | 522500                | 1@37                     | CP_QPSK           | 2635.70                        | -40.19                          | -25                    | PASS           |
| n38         | 30                   | 20                         | 516000                | 51@0                     | CP_QPSK           | 2548.12                        | -39.65                          | -25                    | PASS           |
| n38         | 30                   | 20                         | 516000                | 1@0                      | CP_QPSK           | 2548.37                        | -40.39                          | -25                    | PASS           |
| n38         | 30                   | 20                         | 516000                | 1@50                     | CP_QPSK           | 2548.71                        | -40.26                          | -25                    | PASS           |
| n38         | 30                   | 20                         | 522000                | 51@0                     | CP_QPSK           | 2641.17                        | -39.77                          | -25                    | PASS           |
| n38         | 30                   | 20                         | 522000                | 1@0                      | CP_QPSK           | 2640.14                        | -40.37                          | -25                    | PASS           |
| n38         | 30                   | 20                         | 522000                | 1@50                     | CP_QPSK           | 2643.63                        | -40.44                          | -25                    | PASS           |

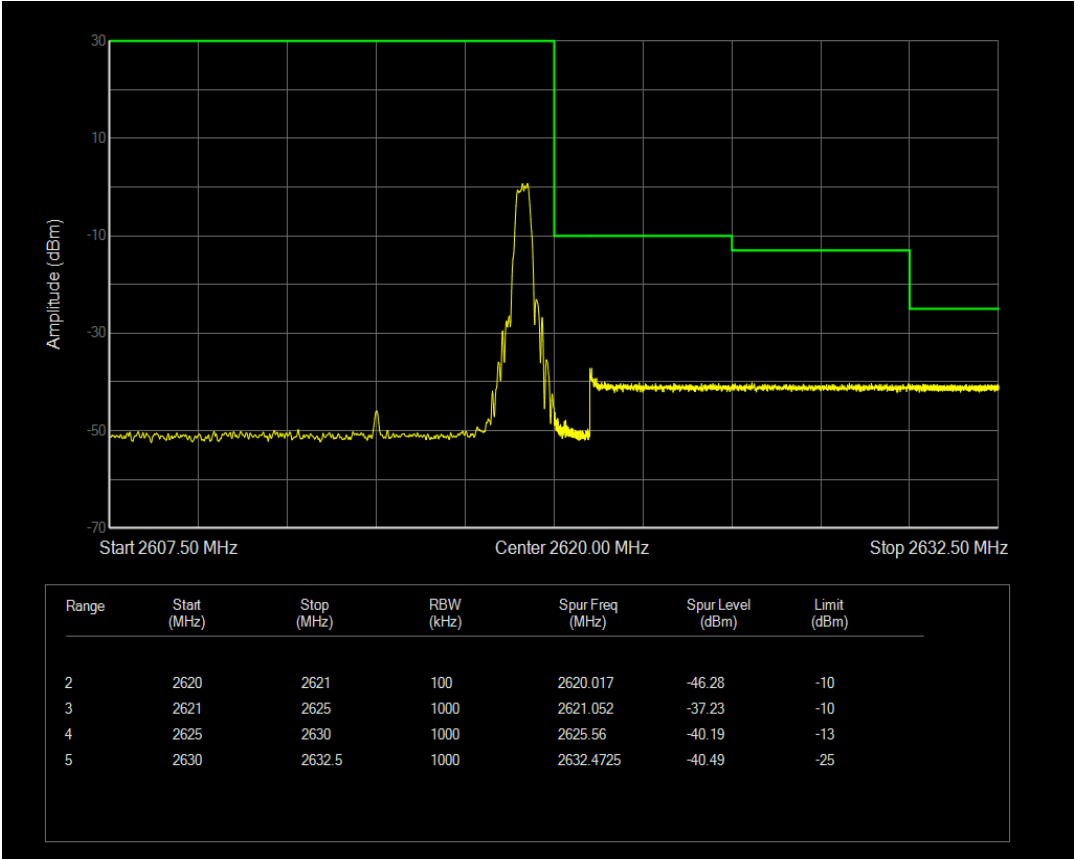
*n38 SCS=30kHz CP\_QPSK BW=10MHz Channel=515000 RB=1@0*



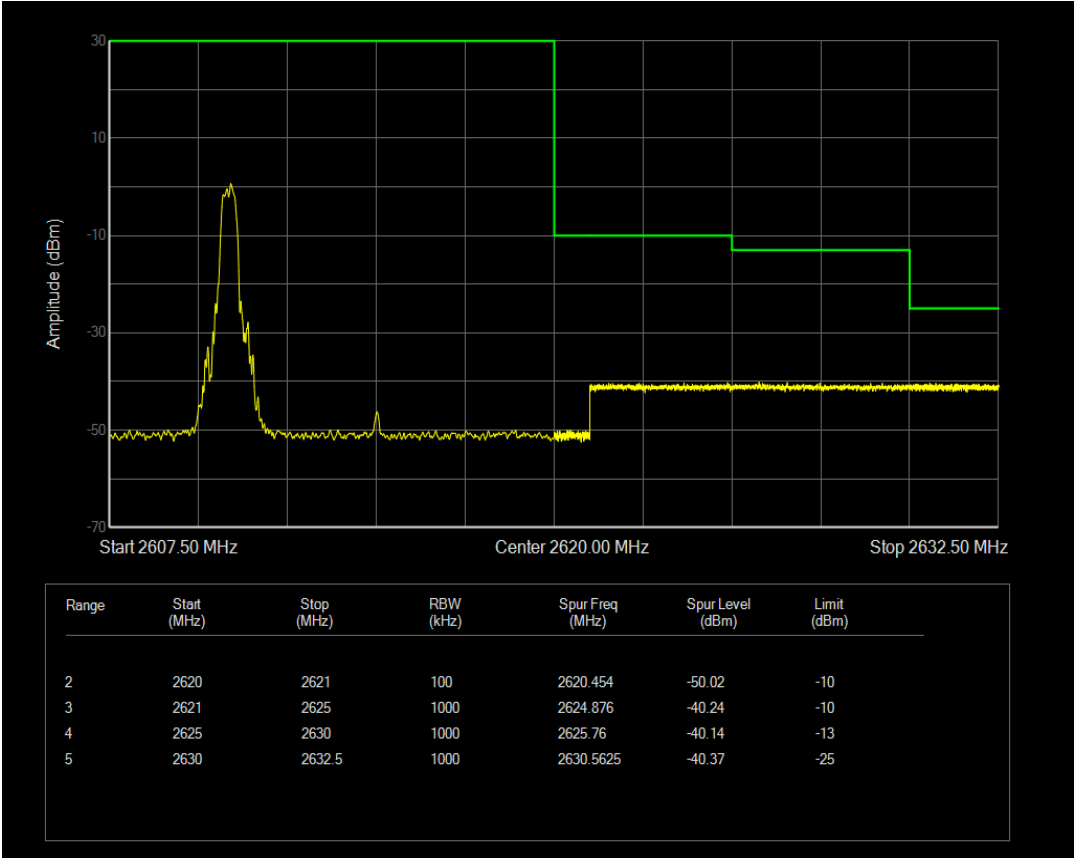
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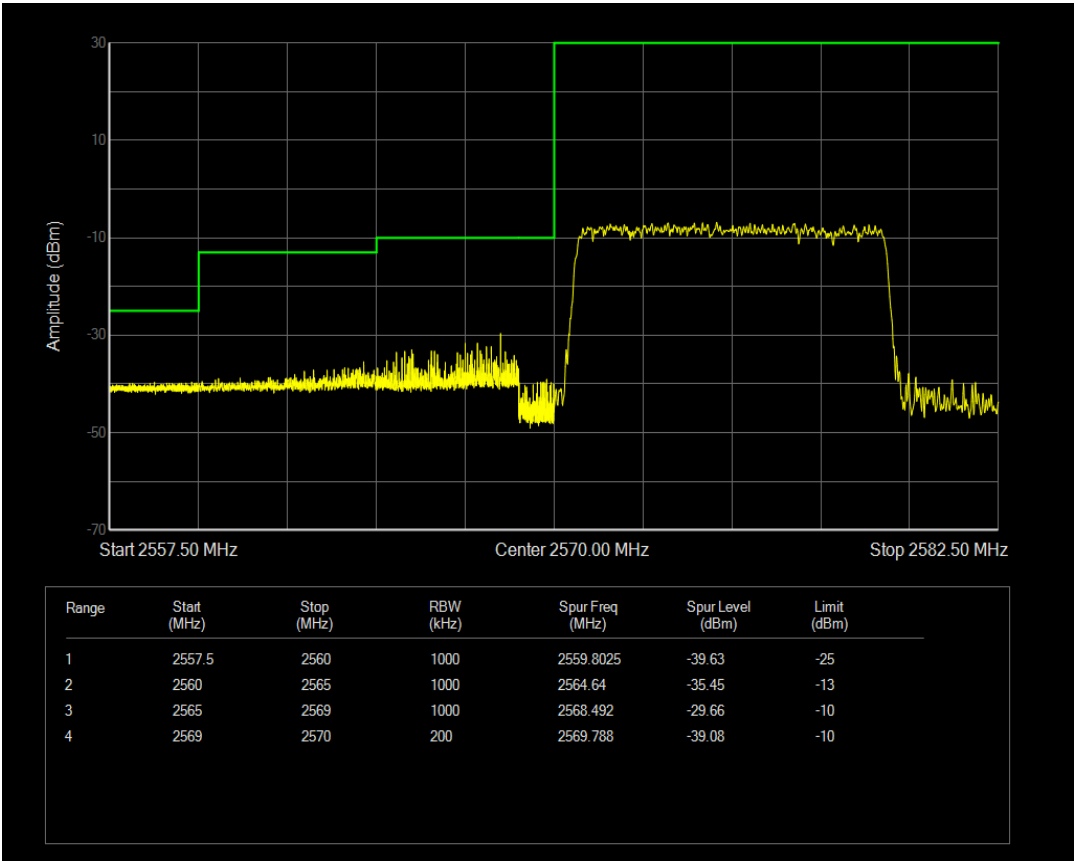
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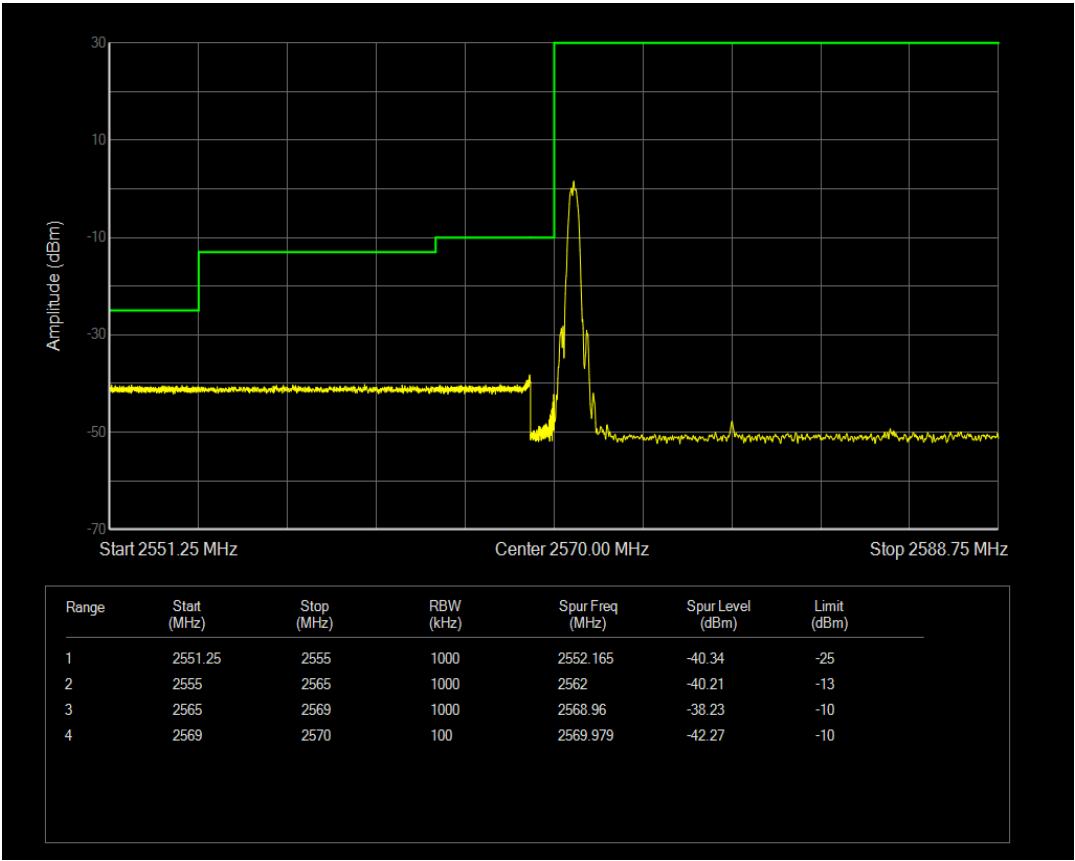
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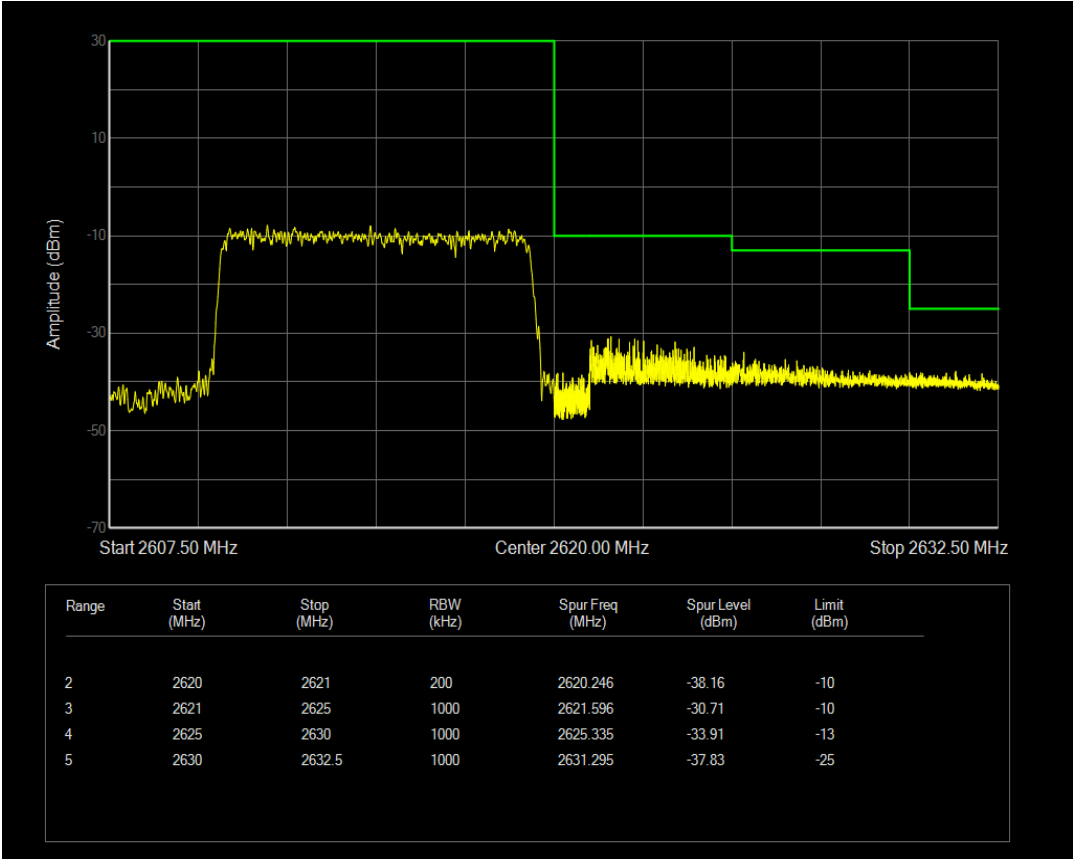
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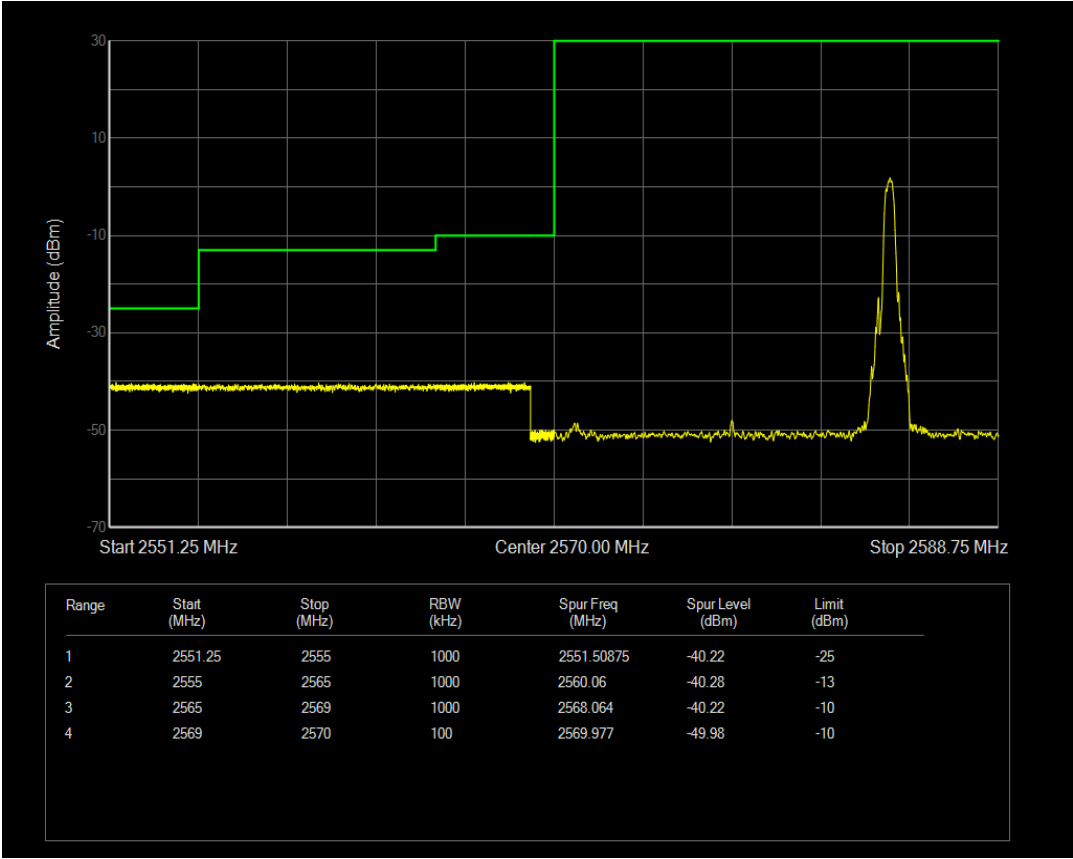
*n38 SCS=30kHz CP\_QPSK BW=15MHz Channel=515500 RB=1@0*



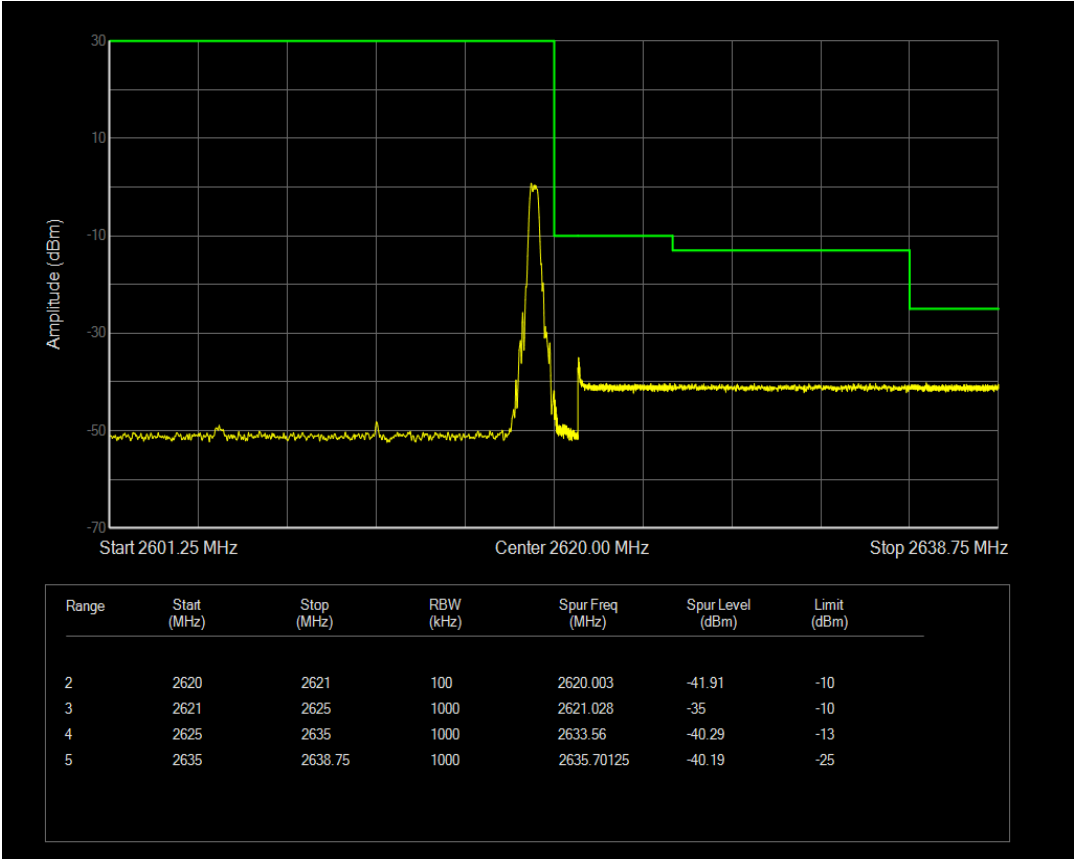
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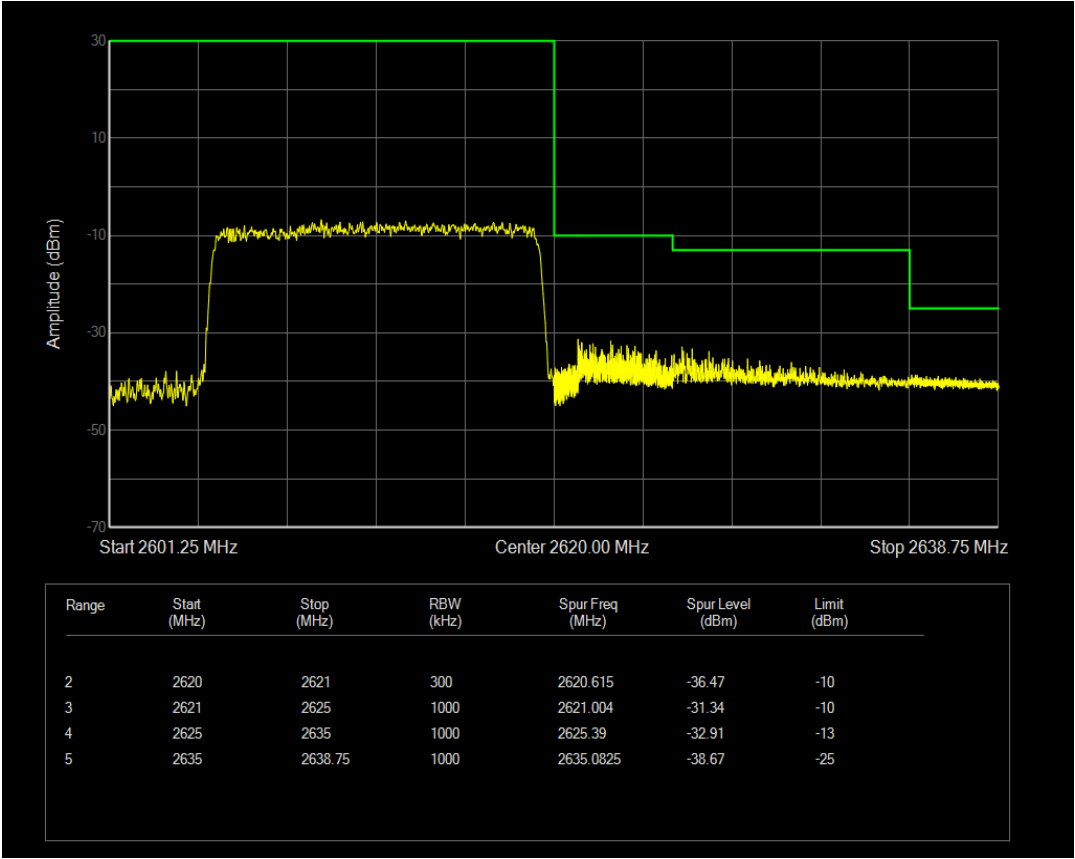
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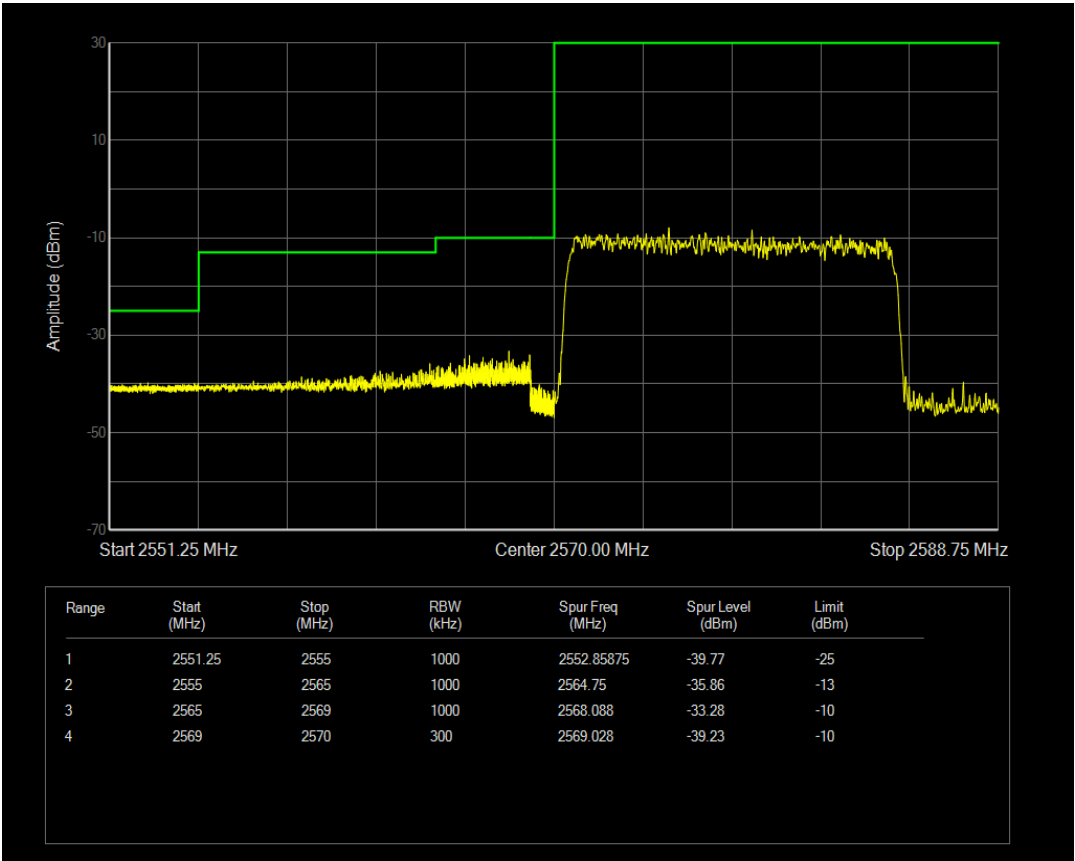
*n38 SCS=30kHz CP\_QPSK BW=15MHz Channel=522500 RB=1@37*



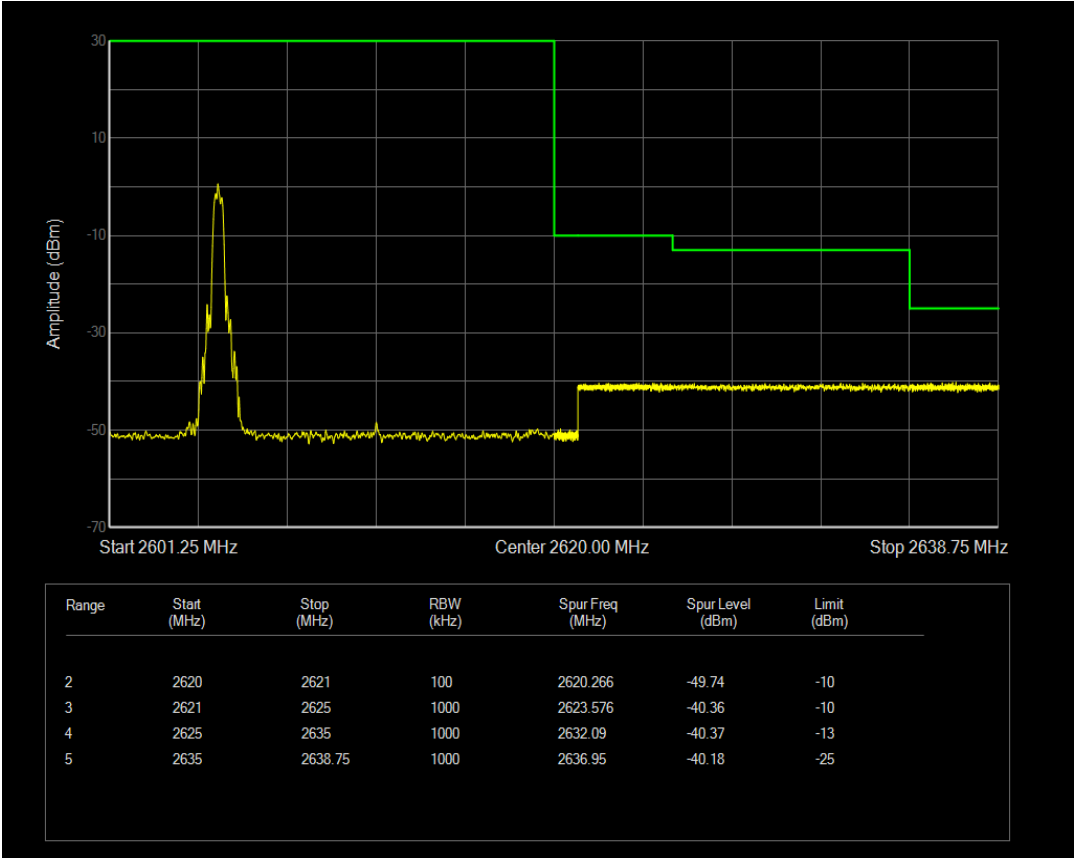
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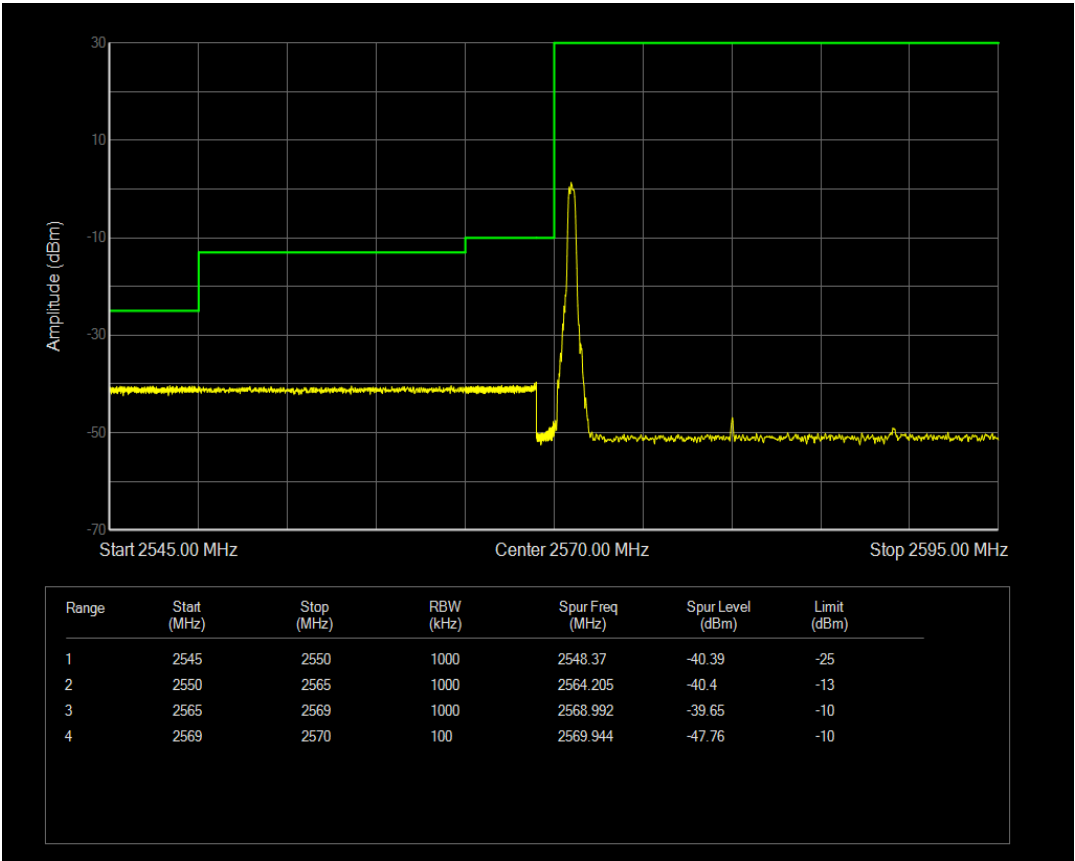
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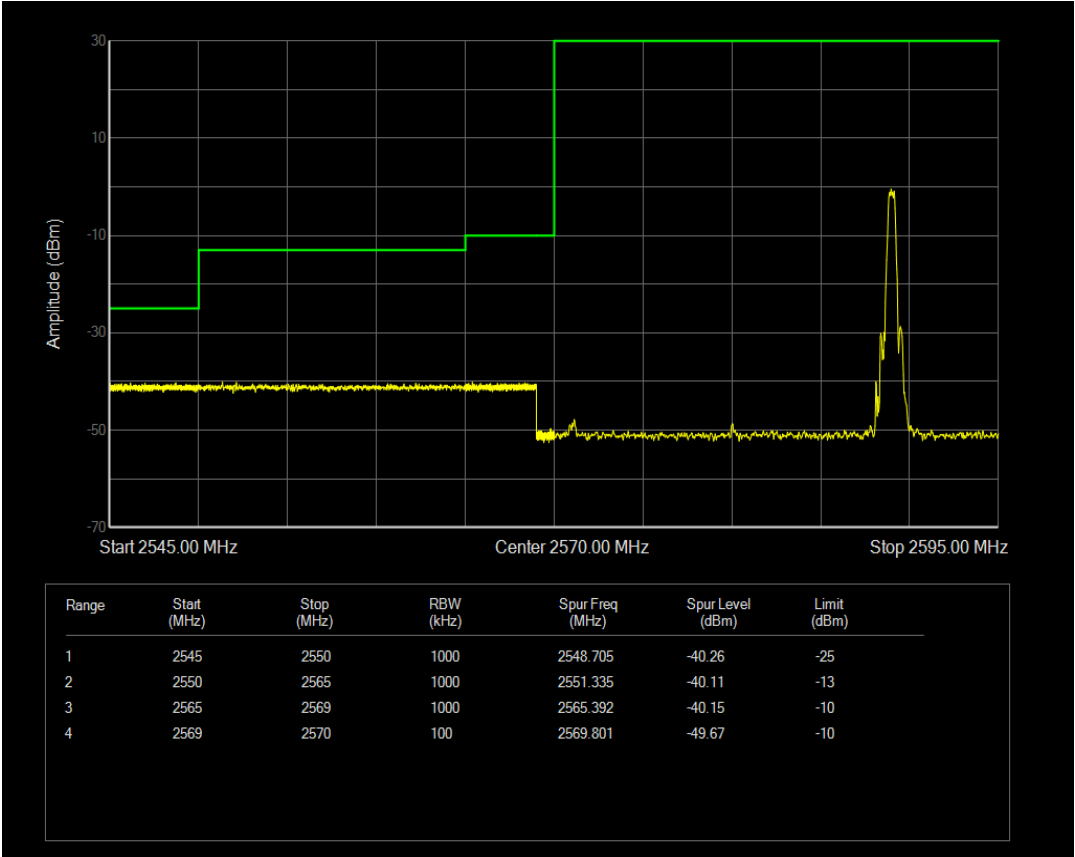
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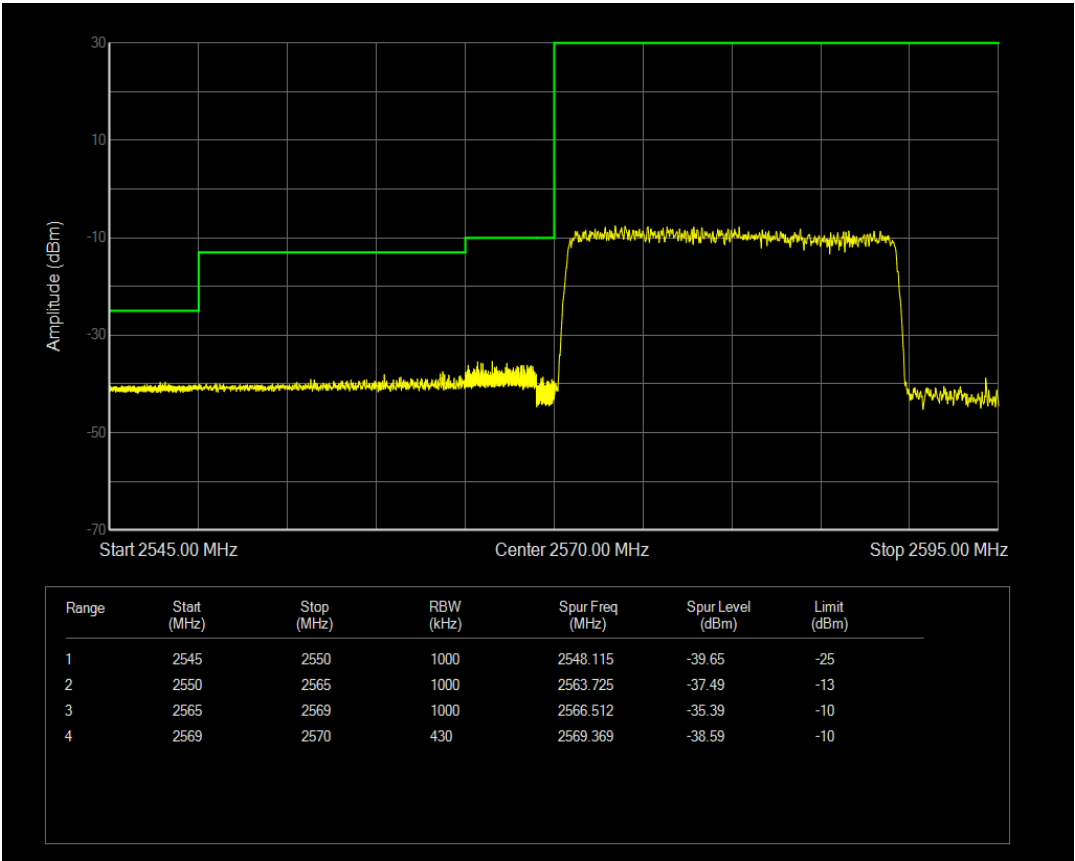
n38 SCS=30kHz CP\_QPSK BW=20MHz Channel=516000 RB=1@0



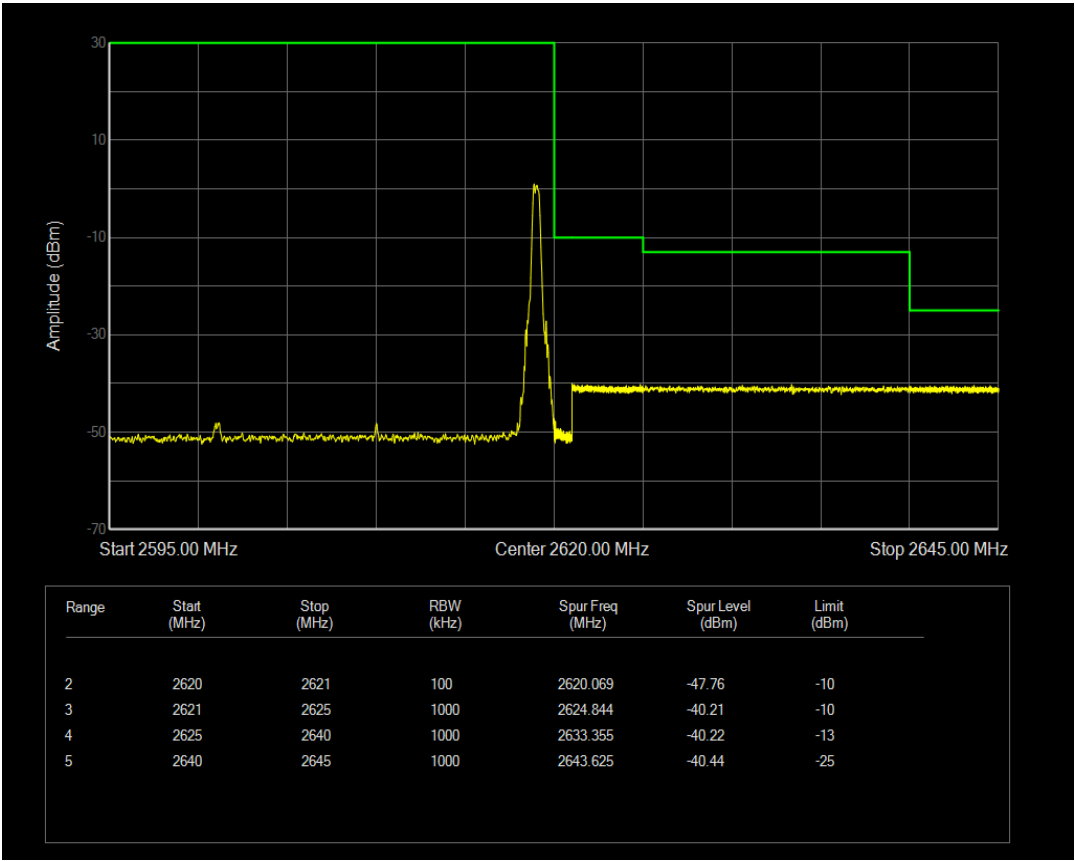
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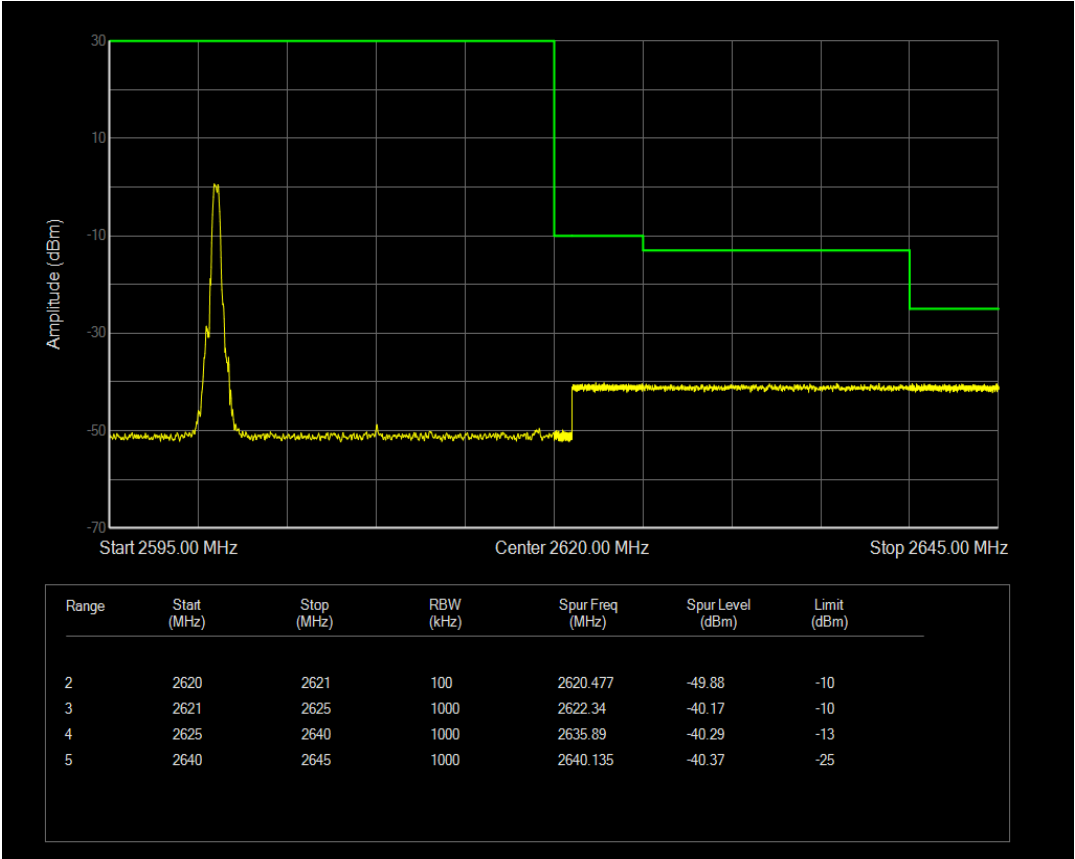
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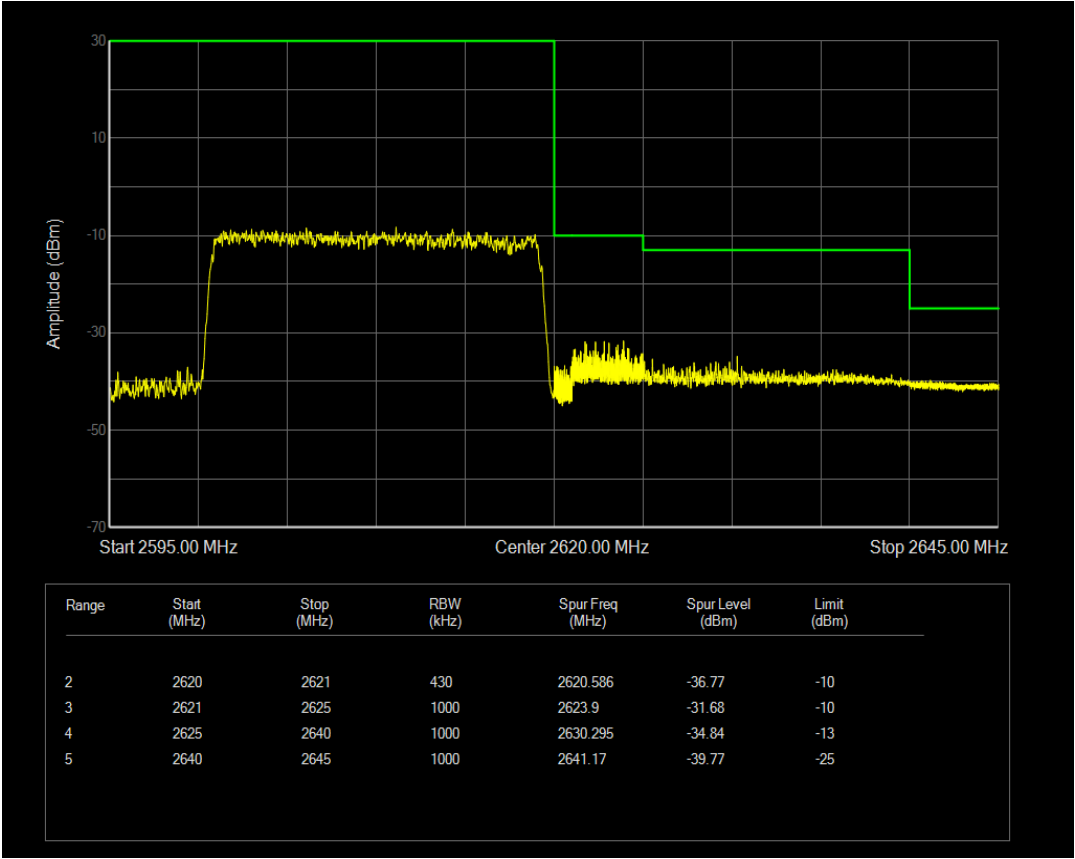
*n38 SCS=30kHz CP\_QPSK BW=20MHz Channel=522000 RB=1@50*



*n38 SCS=30kHz CP\_QPSK BW=20MHz Channel=522000 RB=1@0*



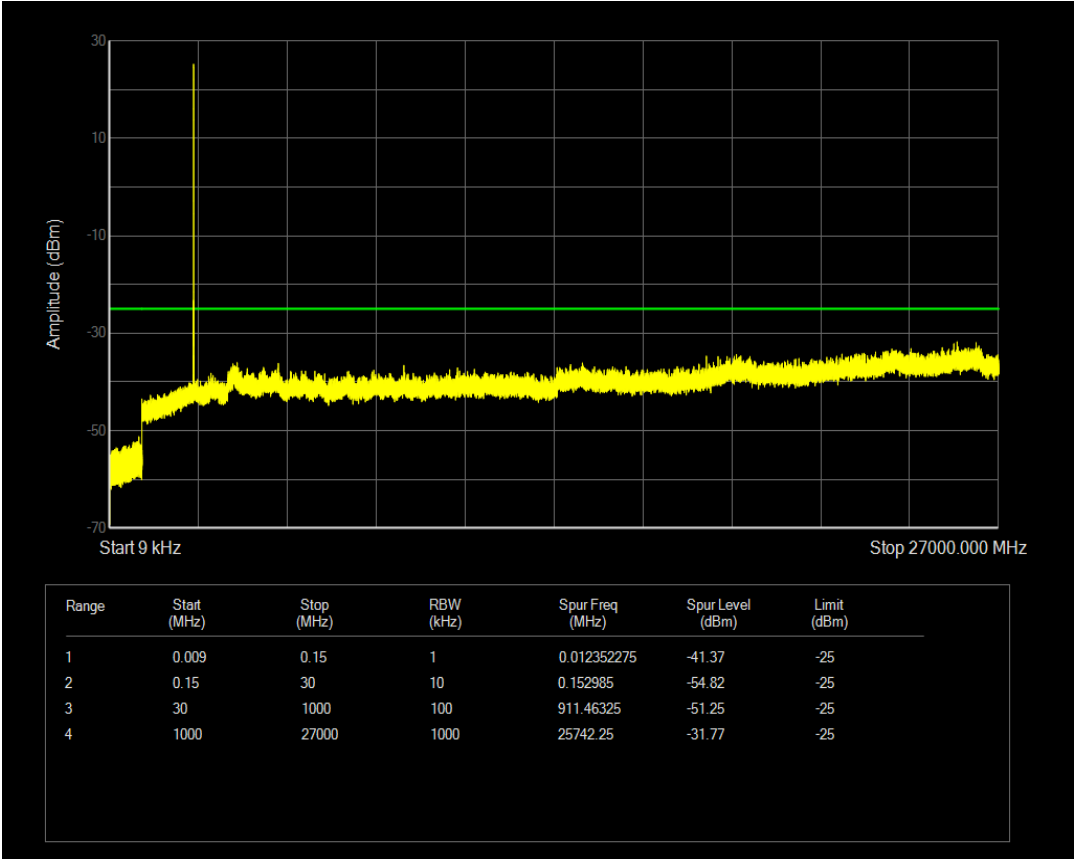
*n38 SCS=30kHz CP\_QPSK BW=20MHz Channel=522000 RB=51@0*



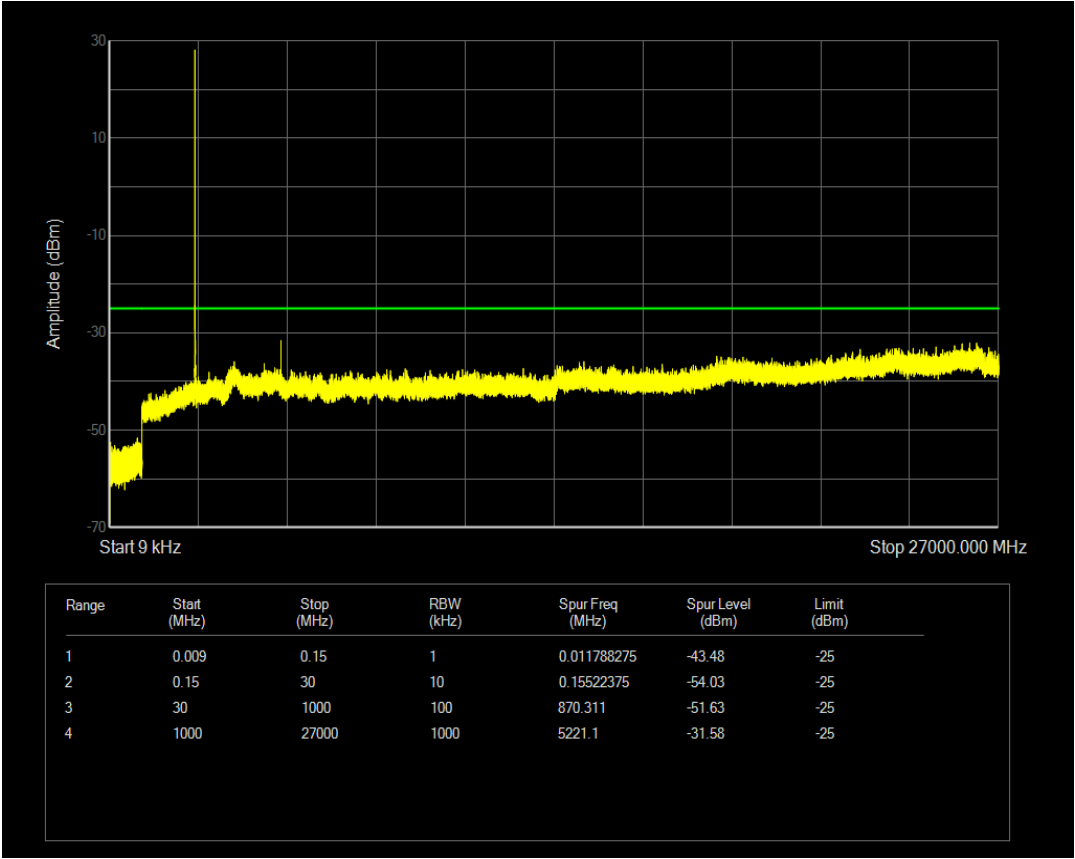
## 6 Out-of-band emissions for NR FR1

| <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           | 25487.45                       | -32.06                          | -25                    | PASS           |
| n38         | 30                   | 10                         | 515000                | 1@0                      | CP_QPSK           | 25742.25                       | -31.77                          | -25                    | PASS           |
| n38         | 30                   | 10                         | 515000                | 1@23                     | CP_QPSK           | 5158.70                        | -31.93                          | -25                    | PASS           |
| n38         | 30                   | 10                         | 523000                | 24@0                     | CP_QPSK           | 26442.30                       | -31.66                          | -25                    | PASS           |
| n38         | 30                   | 10                         | 523000                | 1@0                      | CP_QPSK           | 5221.10                        | -31.58                          | -25                    | PASS           |
| n38         | 30                   | 10                         | 523000                | 1@23                     | CP_QPSK           | 5238.65                        | -29.31                          | -25                    | PASS           |
| n38         | 30                   | 15                         | 515500                | 38@0                     | CP_QPSK           | 25690.25                       | -31.94                          | -25                    | PASS           |
| n38         | 30                   | 15                         | 515500                | 1@0                      | CP_QPSK           | 5141.80                        | -32.27                          | -25                    | PASS           |
| n38         | 30                   | 15                         | 515500                | 1@37                     | CP_QPSK           | 5168.45                        | -32.16                          | -25                    | PASS           |
| n38         | 30                   | 15                         | 522500                | 38@0                     | CP_QPSK           | 26345.45                       | -32.16                          | -25                    | PASS           |
| n38         | 30                   | 15                         | 522500                | 1@0                      | CP_QPSK           | 5212.00                        | -30.63                          | -25                    | PASS           |
| n38         | 30                   | 15                         | 522500                | 1@37                     | CP_QPSK           | 5238.00                        | -29.23                          | -25                    | PASS           |
| n38         | 30                   | 20                         | 516000                | 51@0                     | CP_QPSK           | 25988.60                       | -32.11                          | -25                    | PASS           |
| n38         | 30                   | 20                         | 516000                | 1@0                      | CP_QPSK           | 5142.45                        | -31.31                          | -25                    | PASS           |
| n38         | 30                   | 20                         | 516000                | 1@50                     | CP_QPSK           | 26378.60                       | -32.13                          | -25                    | PASS           |
| n38         | 30                   | 20                         | 522000                | 51@0                     | CP_QPSK           | 26235.60                       | -31.65                          | -25                    | PASS           |
| n38         | 30                   | 20                         | 522000                | 1@0                      | CP_QPSK           | 5202.25                        | -30.62                          | -25                    | PASS           |
| n38         | 30                   | 20                         | 522000                | 1@50                     | CP_QPSK           | 26382.50                       | -32.24                          | -25                    | PASS           |

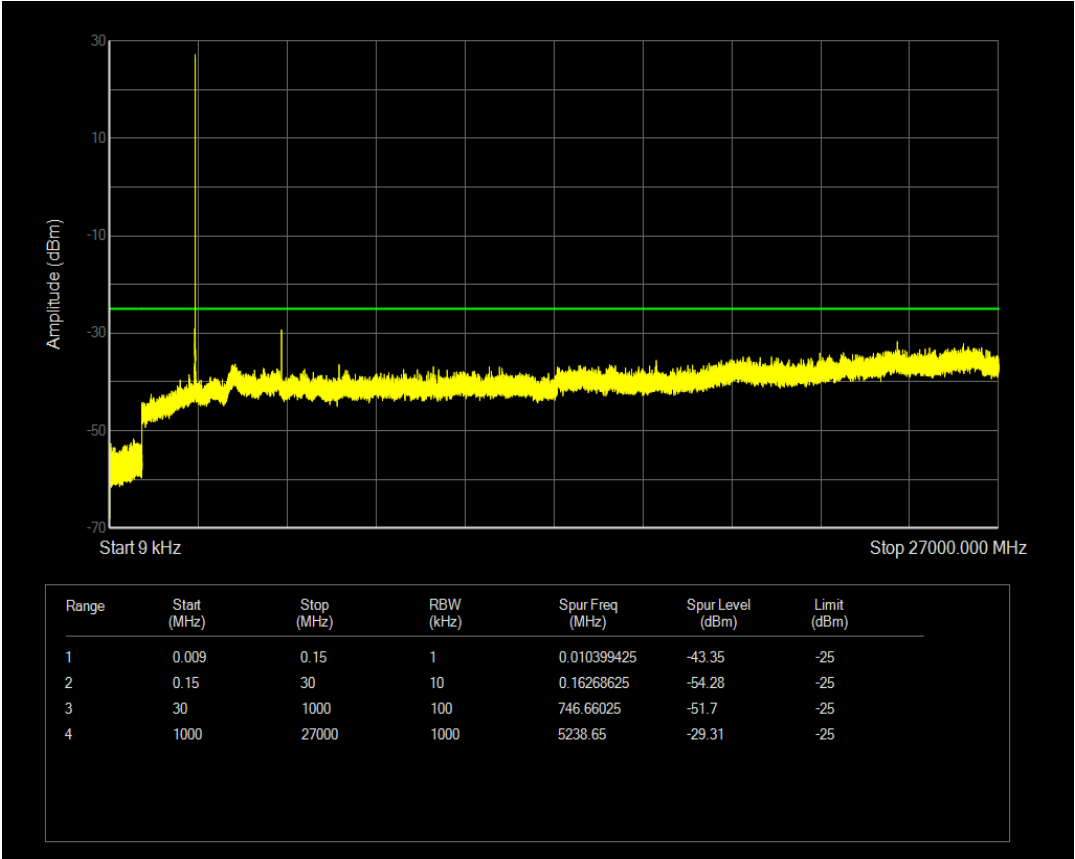
***n38 SCS=30kHz CP\_QPSK BW=10MHz Channel=515000 RB=1@0***



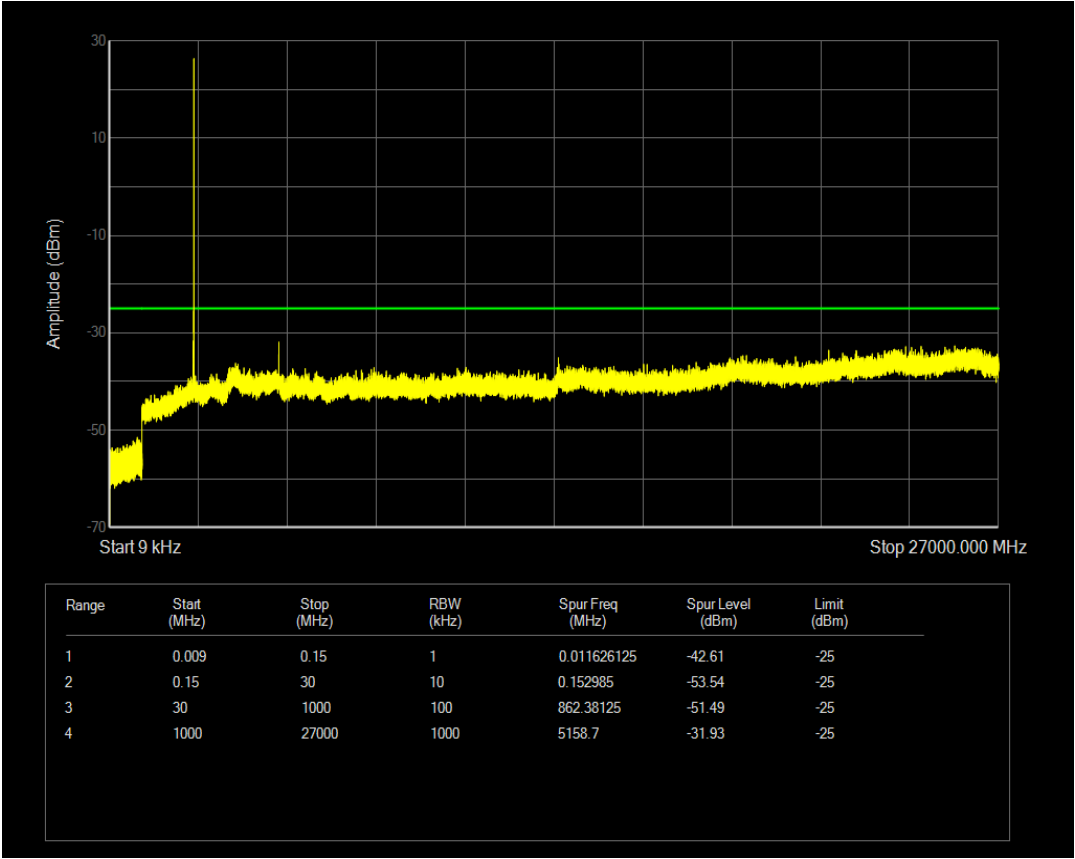
*n38 SCS=30kHz CP\_QPSK BW=10MHz Channel=523000 RB=1@0*



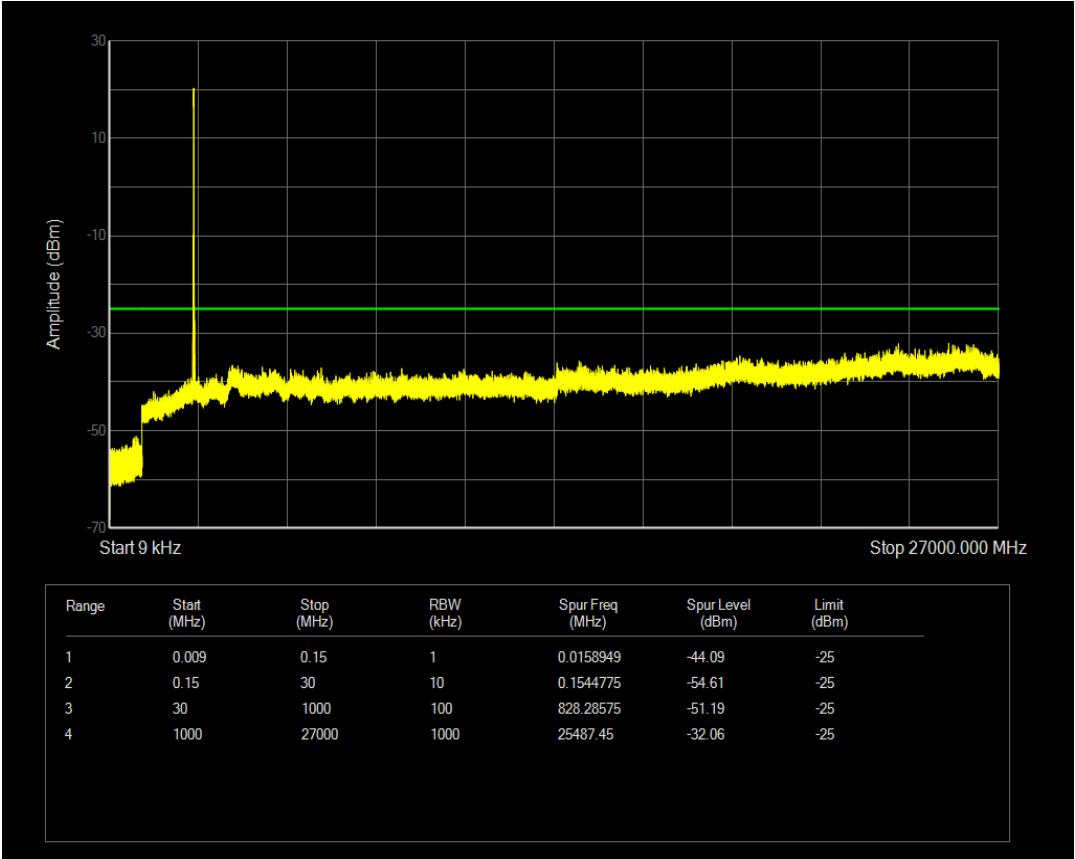
*n38 SCS=30kHz CP\_QPSK BW=10MHz Channel=523000 RB=1@23*



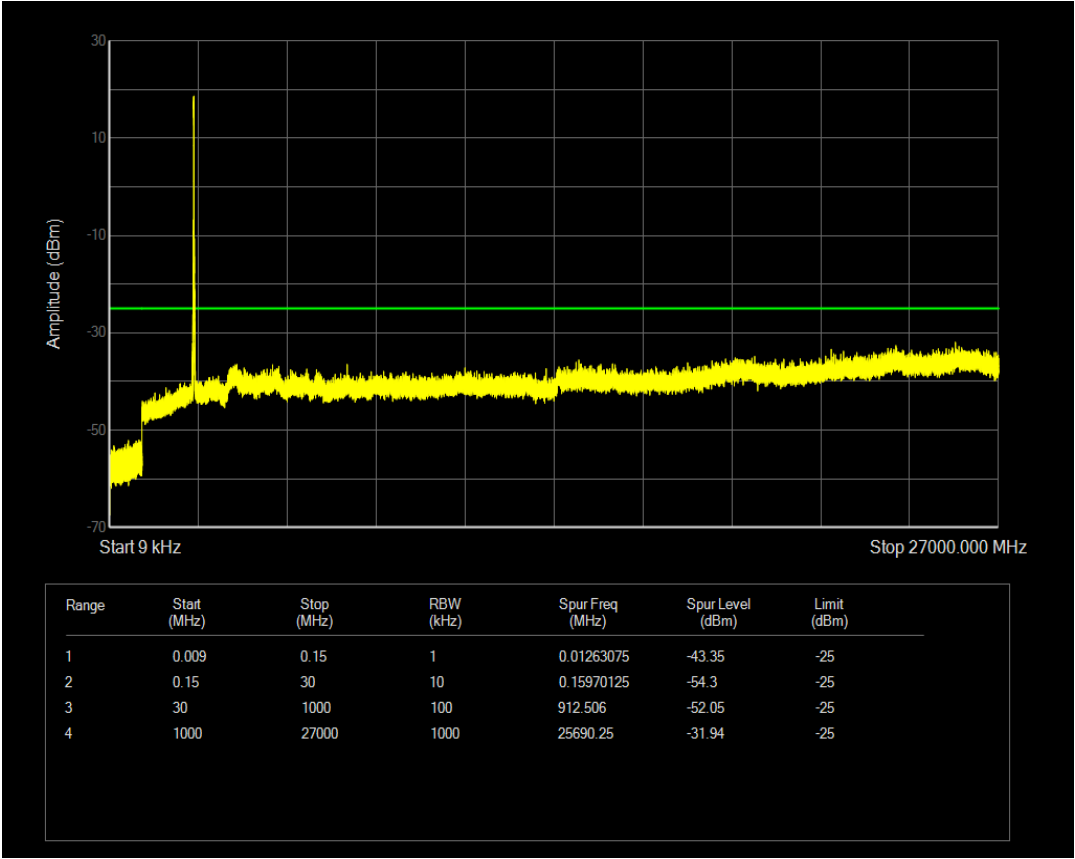
*n38 SCS=30kHz CP\_QPSK BW=10MHz Channel=515000 RB=1@23*



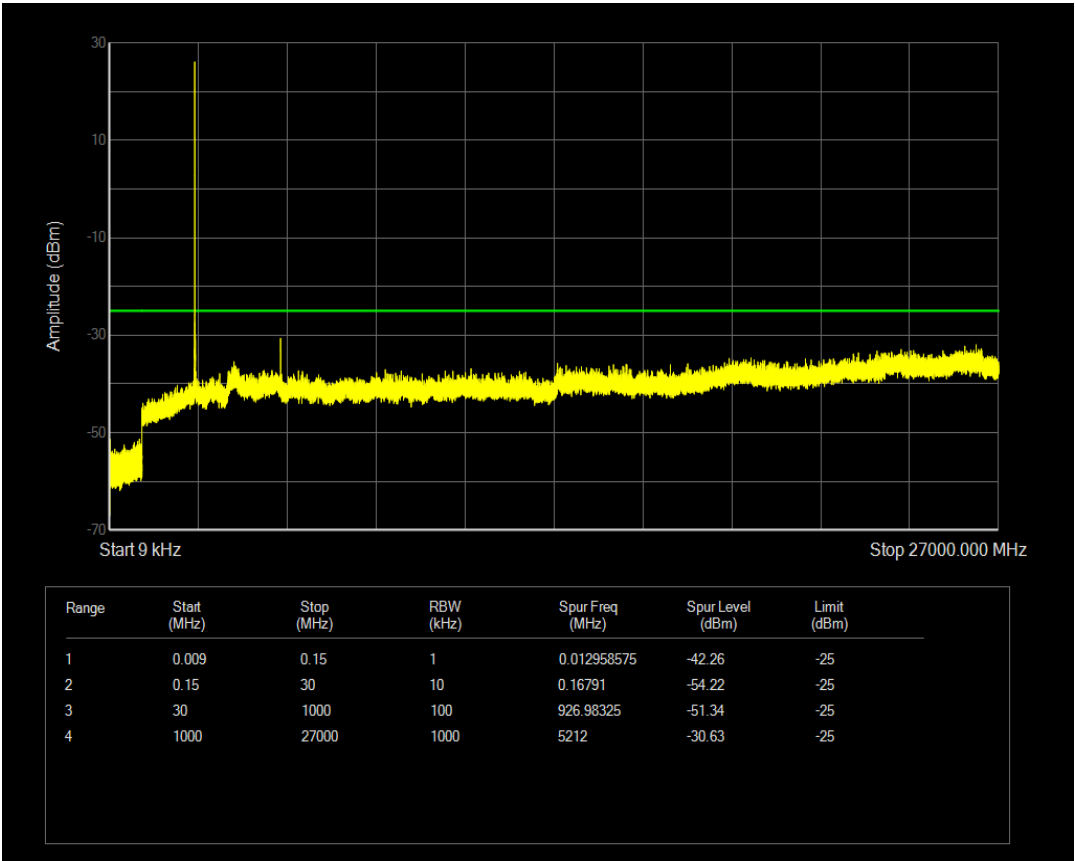
*n38 SCS=30kHz CP\_QPSK BW=10MHz Channel=515000 RB=24@0*



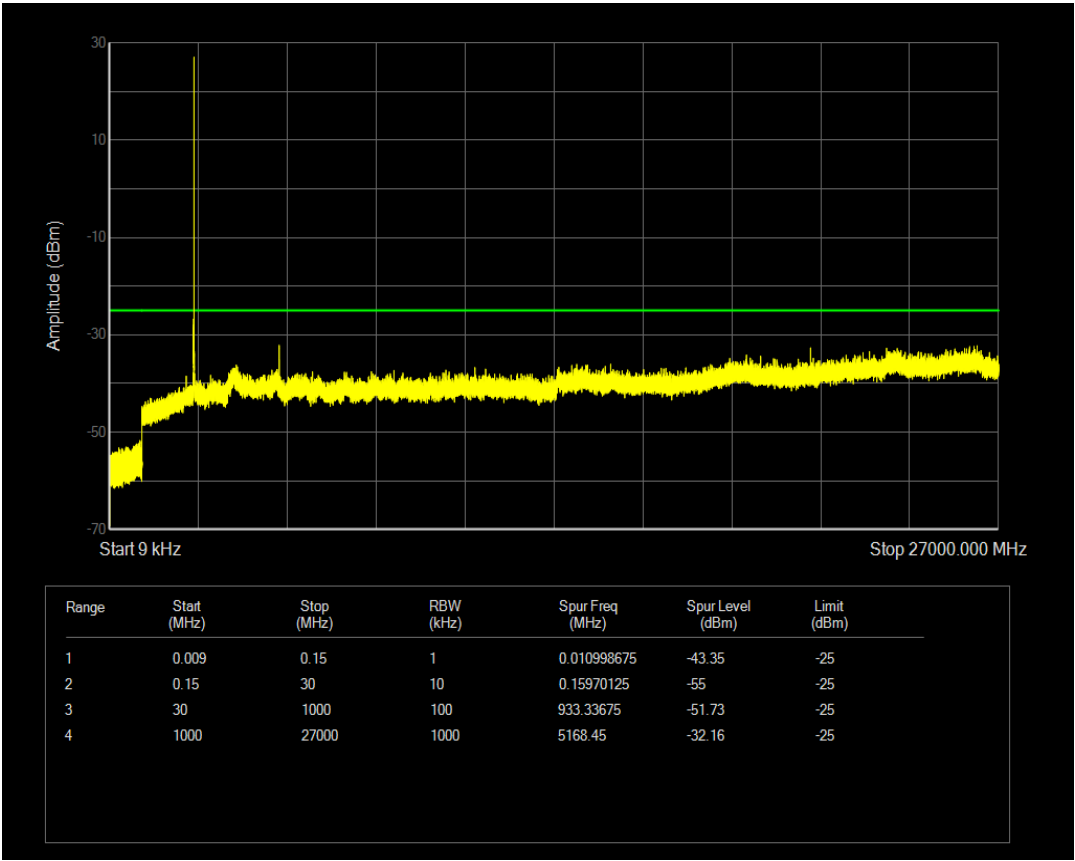
*n38 SCS=30kHz CP\_QPSK BW=15MHz Channel=515500 RB=38@0*



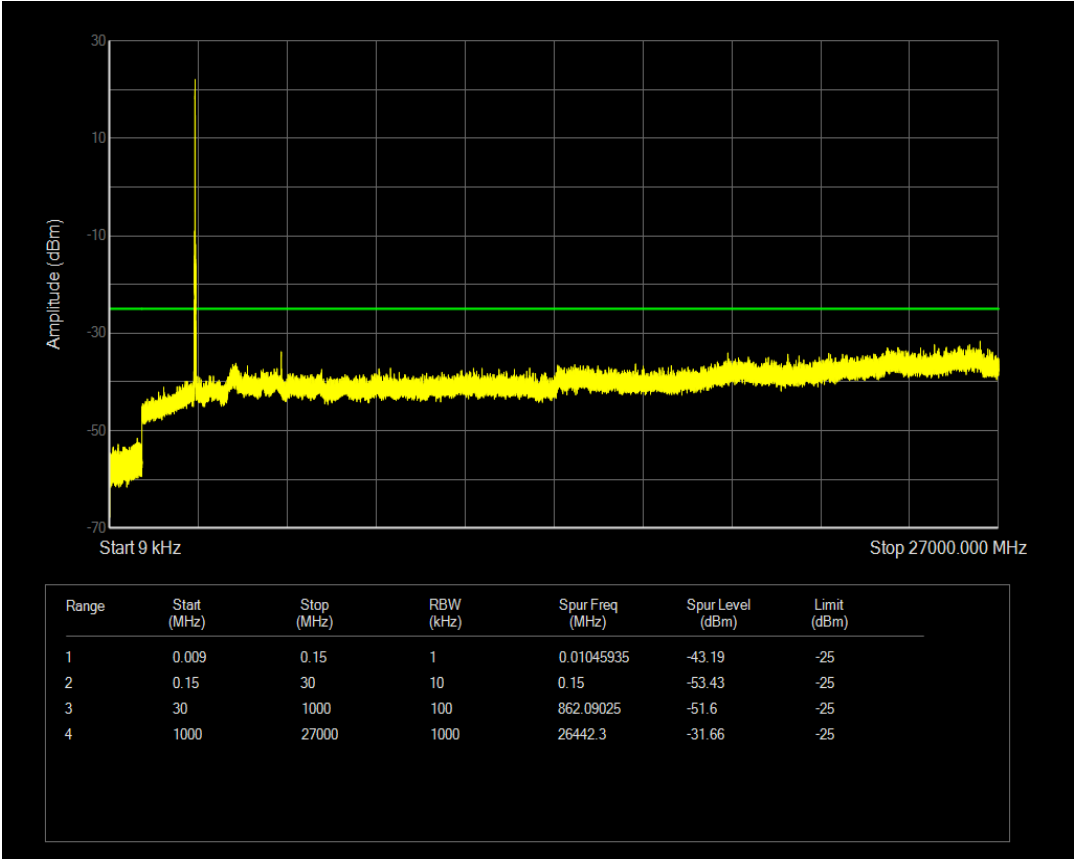
*n38 SCS=30kHz CP\_QPSK BW=15MHz Channel=522500 RB=1@0*



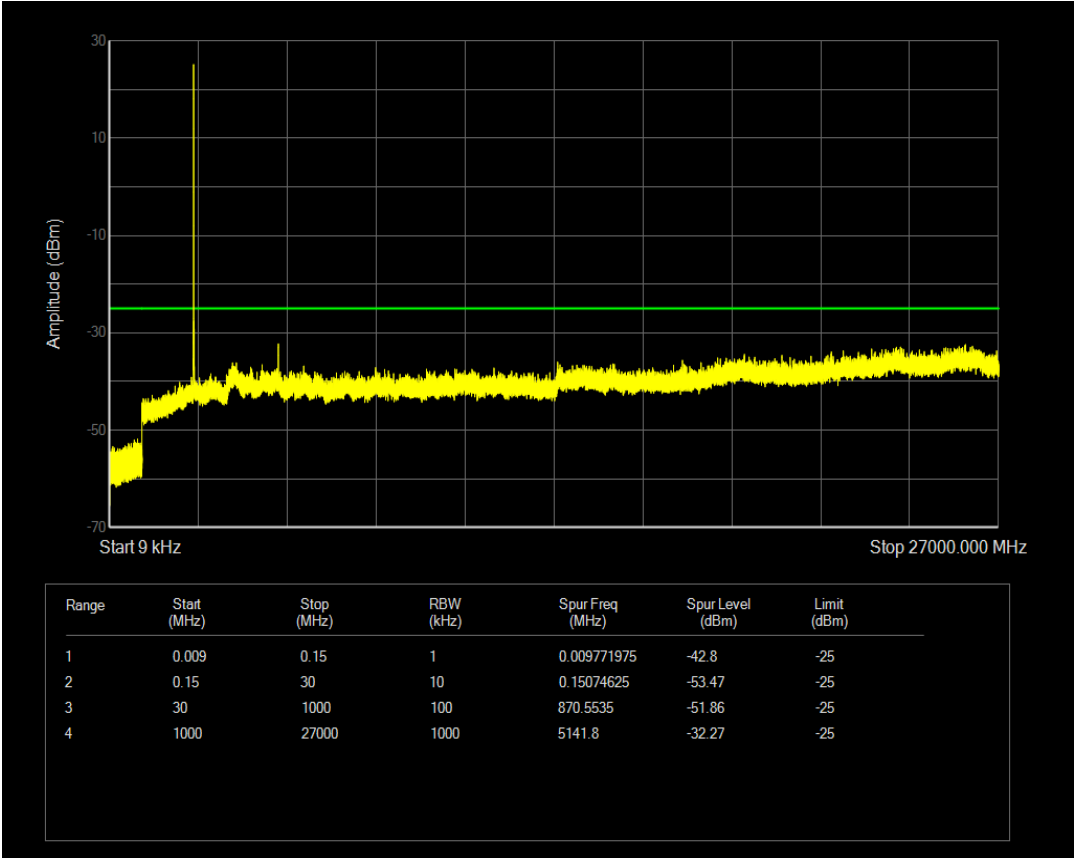
*n38 SCS=30kHz CP\_QPSK BW=15MHz Channel=515500 RB=1@37*



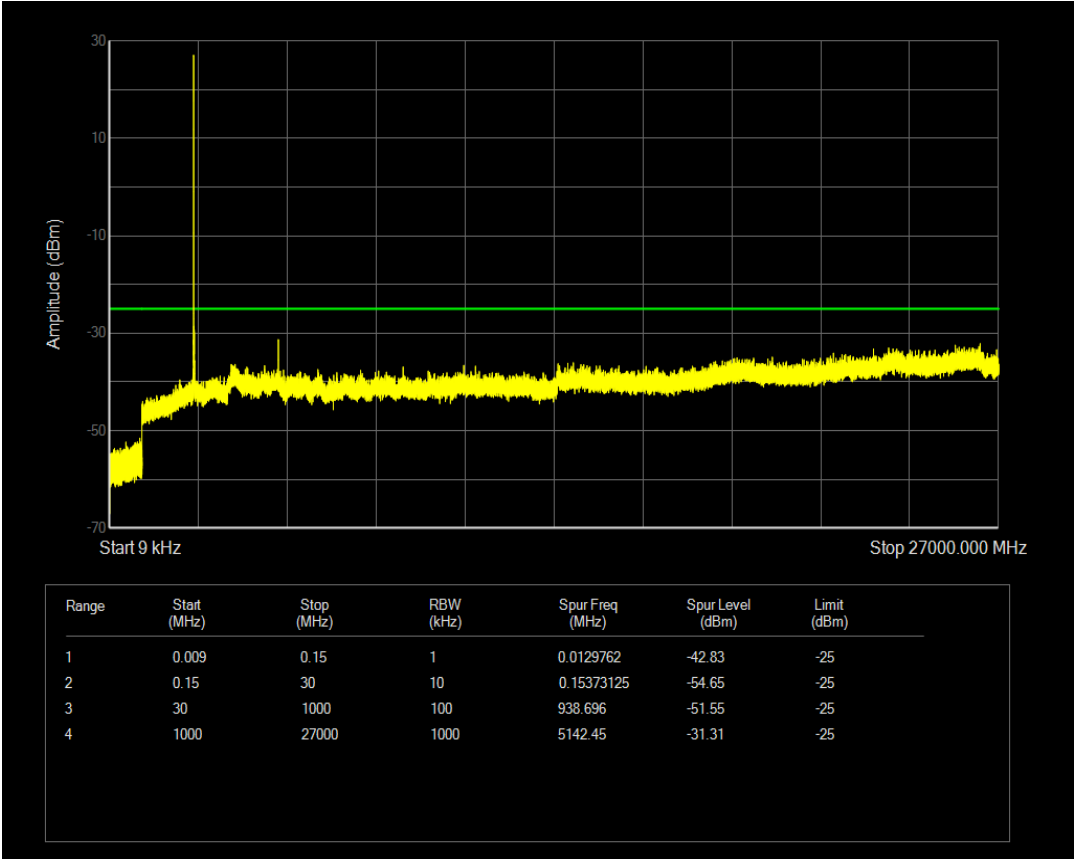
*n38 SCS=30kHz CP\_QPSK BW=10MHz Channel=523000 RB=24@0*



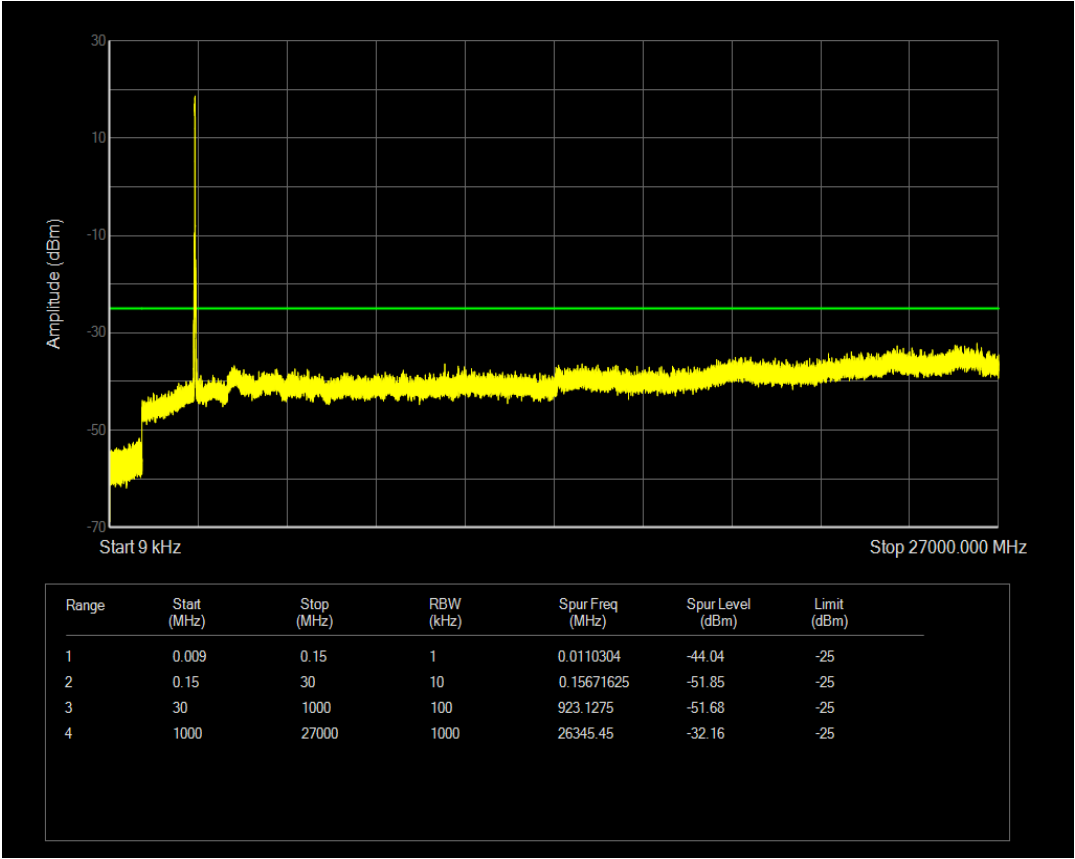
*n38 SCS=30kHz CP\_QPSK BW=15MHz Channel=515500 RB=1@0*



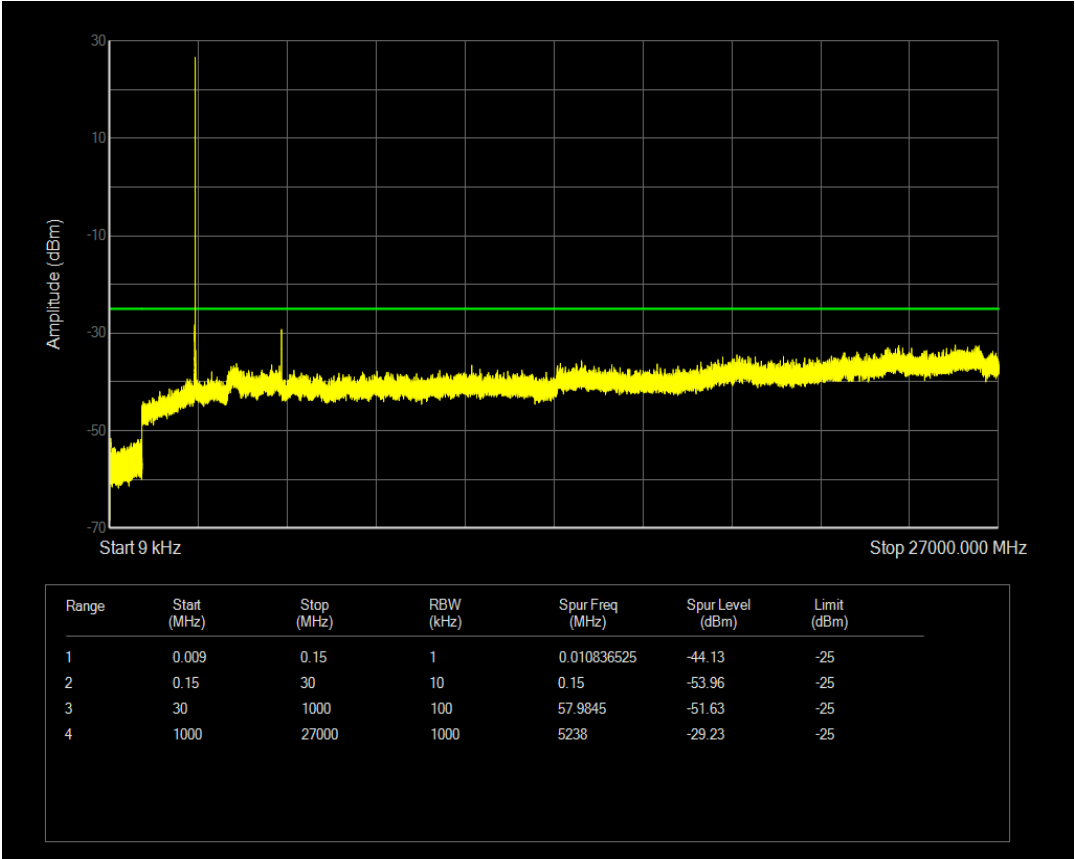
*n38 SCS=30kHz CP\_QPSK BW=20MHz Channel=516000 RB=1@0*



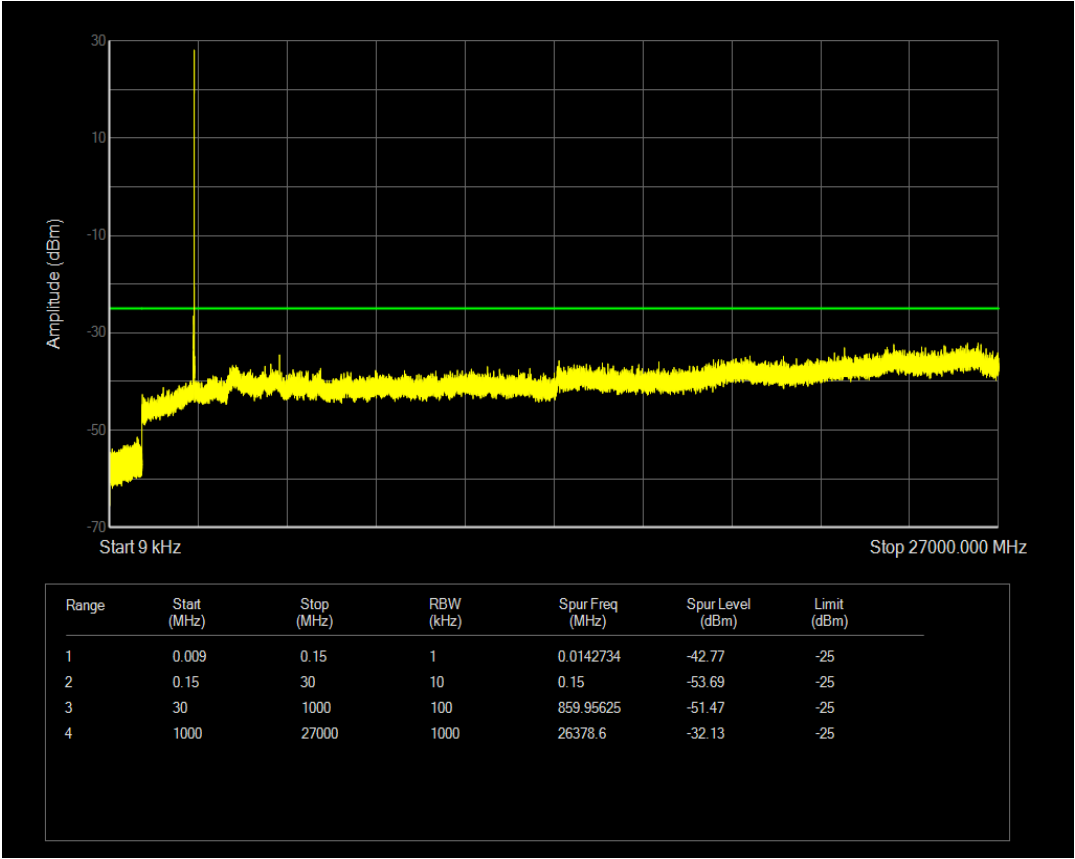
*n38 SCS=30kHz CP\_QPSK BW=15MHz Channel=522500 RB=38@0*



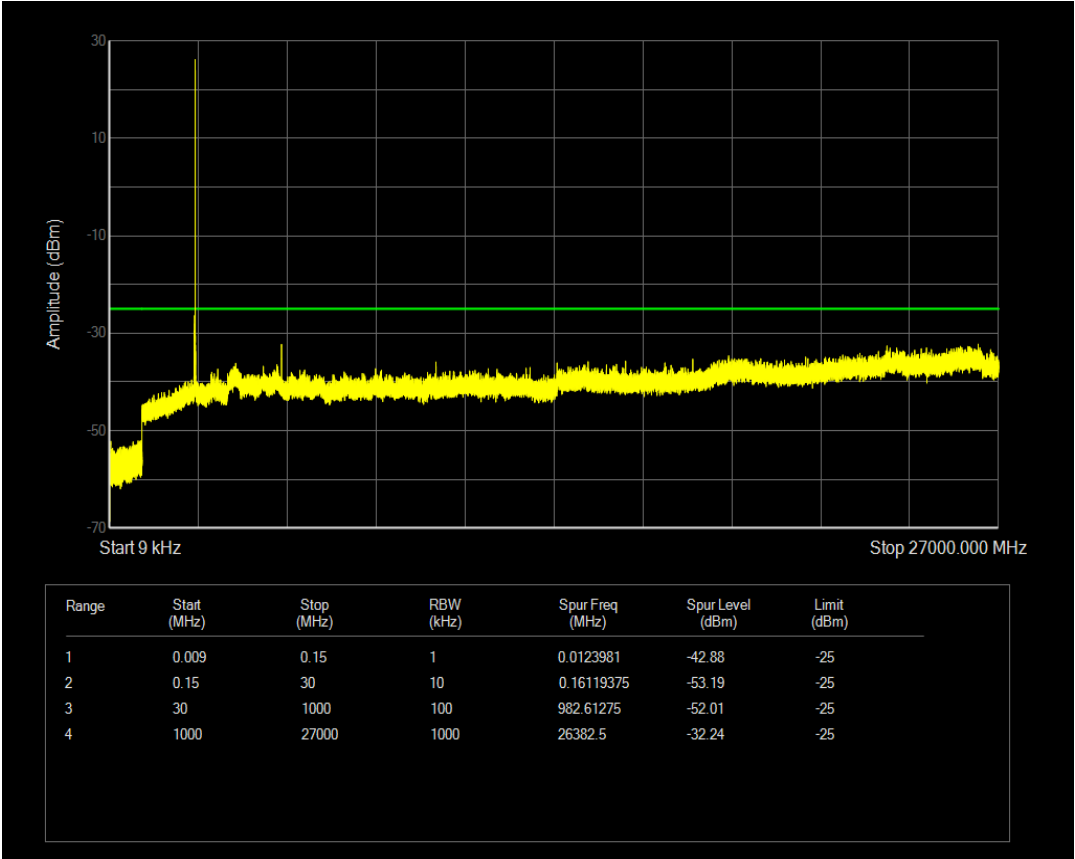
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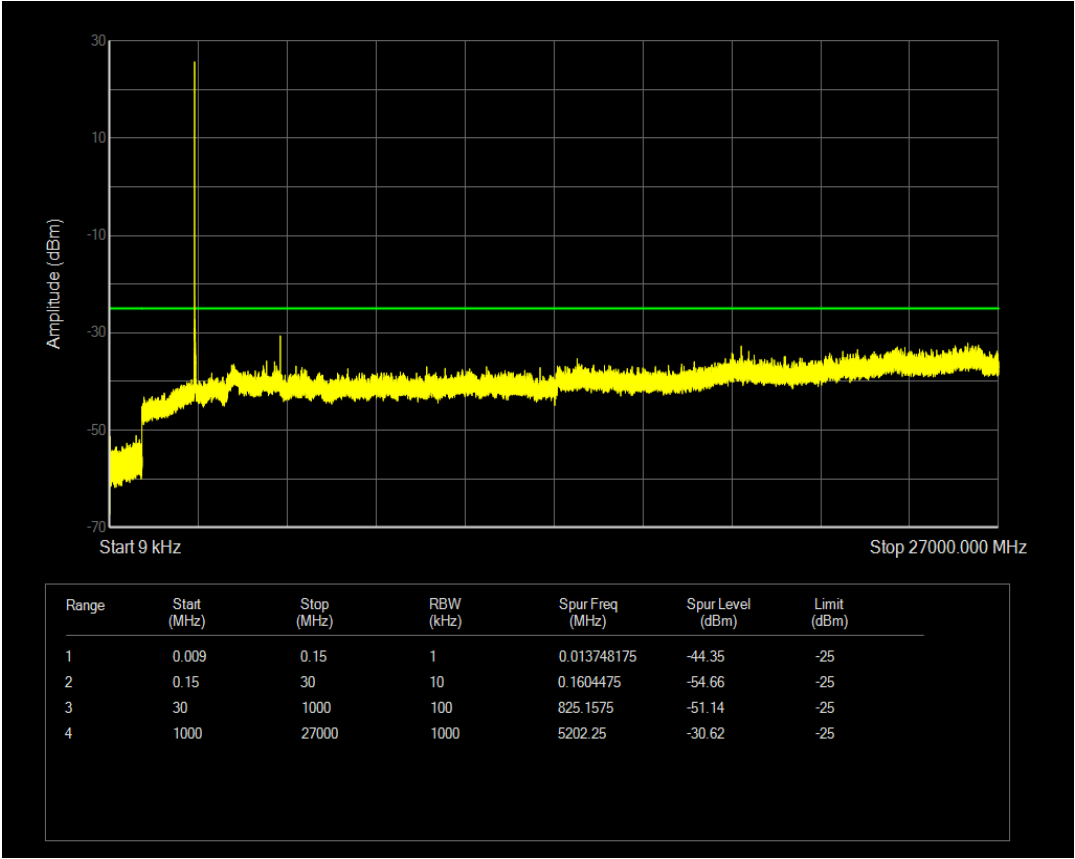
*n38 SCS=30kHz CP\_QPSK BW=20MHz Channel=516000 RB=1@50*



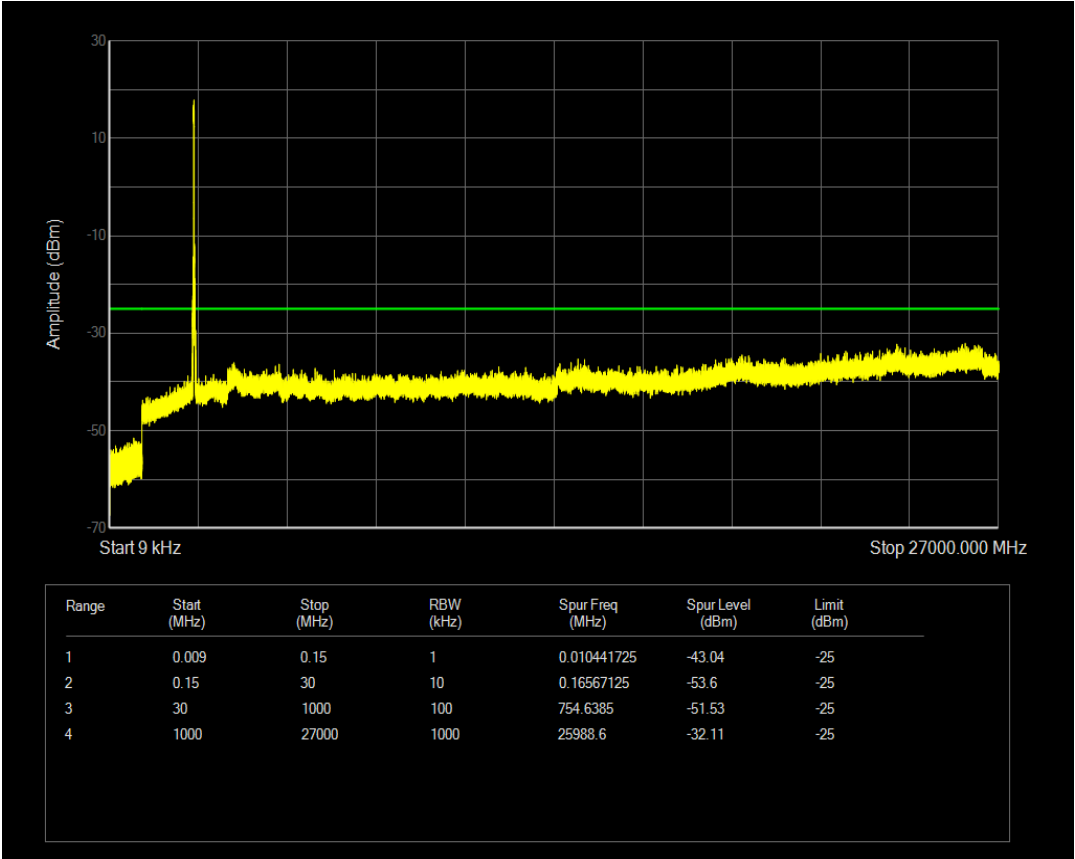
*n38 SCS=30kHz CP\_QPSK BW=20MHz Channel=522000 RB=1@50*



*n38 SCS=30kHz CP\_QPSK BW=20MHz Channel=522000 RB=1@0*



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



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

