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Appendix B.46

NR Band n70



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1. Effective (Isotropic) Radiated Power Output Data

1.1 15k_SISO_5MHz_NTNV_EIRP

1.1.1 Test Result

| 5G NR n70 SCS=15kHz SISO 5MHz NTN | | | | | | | | | | |
|-----------------------------------|-----------------|-----------------|----------------------|------|-----|-----------|------|-----|-------|---------|
| Modulation | Frequency (MHz) | RB Allocation | Conducted Power(dBm) | | | EIRP(dBm) | | | Limit | Verdict |
| | | | Ant1 | Ant2 | Sum | Ant1 | Ant2 | Sum | | |
| DFT-s-OFDM PI/2 BPSK | 1697.5 | Edge_1RB_Left | 22.46 | / | / | 25.16 | / | / | <=30 | Pass |
| | | Edge_1RB_Right | 22.31 | / | / | 25.01 | / | / | <=30 | Pass |
| | | Outer_Full | 22.42 | / | / | 25.12 | / | / | <=30 | Pass |
| | | Inner_Full | 22.87 | / | / | 25.57 | / | / | <=30 | Pass |
| | | Inner_1RB_Left | 22.92 | / | / | 25.62 | / | / | <=30 | Pass |
| | | Inner_1RB_Right | 22.87 | / | / | 25.57 | / | / | <=30 | Pass |
| | 1702.5 | Edge_1RB_Left | 22.22 | / | / | 24.92 | / | / | <=30 | Pass |
| | | Edge_1RB_Right | 22.35 | / | / | 25.05 | / | / | <=30 | Pass |
| | | Outer_Full | 22.31 | / | / | 25.01 | / | / | <=30 | Pass |
| | | Inner_Full | 22.72 | / | / | 25.42 | / | / | <=30 | Pass |
| | | Inner_1RB_Left | 22.72 | / | / | 25.42 | / | / | <=30 | Pass |
| | | Inner_1RB_Right | 22.80 | / | / | 25.5 | / | / | <=30 | Pass |
| | 1707.5 | Edge_1RB_Left | 22.39 | / | / | 25.09 | / | / | <=30 | Pass |
| | | Edge_1RB_Right | 22.48 | / | / | 25.18 | / | / | <=30 | Pass |
| | | Outer_Full | 22.42 | / | / | 25.12 | / | / | <=30 | Pass |
| | | Inner_Full | 22.95 | / | / | 25.65 | / | / | <=30 | Pass |
| | | Inner_1RB_Left | 22.93 | / | / | 25.63 | / | / | <=30 | Pass |
| | | Inner_1RB_Right | 23.05 | / | / | 25.75 | / | / | <=30 | Pass |
| DFT-s-OFDM QPSK | 1697.5 | Edge_1RB_Left | 21.87 | / | / | 24.57 | / | / | <=30 | Pass |
| | | Edge_1RB_Right | 21.89 | / | / | 24.59 | / | / | <=30 | Pass |
| | | Outer_Full | 21.79 | / | / | 24.49 | / | / | <=30 | Pass |
| | | Inner_Full | 22.77 | / | / | 25.47 | / | / | <=30 | Pass |
| | | Inner_1RB_Left | 22.77 | / | / | 25.47 | / | / | <=30 | Pass |
| | | Inner_1RB_Right | 22.82 | / | / | 25.52 | / | / | <=30 | Pass |
| | 1702.5 | Edge_1RB_Left | 21.74 | / | / | 24.44 | / | / | <=30 | Pass |
| | | Edge_1RB_Right | 21.79 | / | / | 24.49 | / | / | <=30 | Pass |
| | | Outer_Full | 21.73 | / | / | 24.43 | / | / | <=30 | Pass |
| | | Inner_Full | 22.73 | / | / | 25.43 | / | / | <=30 | Pass |
| | | Inner_1RB_Left | 22.79 | / | / | 25.49 | / | / | <=30 | Pass |
| | | Inner_1RB_Right | 22.80 | / | / | 25.5 | / | / | <=30 | Pass |
| | 1707.5 | Edge_1RB_Left | 21.96 | / | / | 24.66 | / | / | <=30 | Pass |
| | | Edge_1RB_Right | 22.07 | / | / | 24.77 | / | / | <=30 | Pass |
| | | Outer_Full | 21.98 | / | / | 24.68 | / | / | <=30 | Pass |
| | | Inner_Full | 22.94 | / | / | 25.64 | / | / | <=30 | Pass |
| | | Inner_1RB_Left | 22.87 | / | / | 25.57 | / | / | <=30 | Pass |
| | | Inner_1RB_Right | 23.00 | / | / | 25.7 | / | / | <=30 | Pass |
| DFT-s-OFDM 16 QAM | 1697.5 | Edge_1RB_Left | 20.86 | / | / | 23.56 | / | / | <=30 | Pass |



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|--------------------|--------|-----------------|-------|---|---|-------|---|---|------|------|
| | | Edge_1RB_Right | 20.89 | / | / | 23.59 | / | / | <=30 | Pass |
| | | Outer_Full | 20.85 | / | / | 23.55 | / | / | <=30 | Pass |
| | | Inner_Full | 21.85 | / | / | 24.55 | / | / | <=30 | Pass |
| | | Inner_1RB_Left | 21.73 | / | / | 24.43 | / | / | <=30 | Pass |
| | | Inner_1RB_Right | 21.75 | / | / | 24.45 | / | / | <=30 | Pass |
| | 1702.5 | Edge_1RB_Left | 20.82 | / | / | 23.52 | / | / | <=30 | Pass |
| | | Edge_1RB_Right | 20.84 | / | / | 23.54 | / | / | <=30 | Pass |
| | | Outer_Full | 20.81 | / | / | 23.51 | / | / | <=30 | Pass |
| | | Inner_Full | 21.72 | / | / | 24.42 | / | / | <=30 | Pass |
| | | Inner_1RB_Left | 21.71 | / | / | 24.41 | / | / | <=30 | Pass |
| | 1707.5 | Inner_1RB_Right | 21.81 | / | / | 24.51 | / | / | <=30 | Pass |
| | | Edge_1RB_Left | 20.98 | / | / | 23.68 | / | / | <=30 | Pass |
| | | Edge_1RB_Right | 21.08 | / | / | 23.78 | / | / | <=30 | Pass |
| | | Outer_Full | 21.01 | / | / | 23.71 | / | / | <=30 | Pass |
| | | Inner_Full | 22.03 | / | / | 24.73 | / | / | <=30 | Pass |
| DFT-s-OFDM 64 QAM | 1697.5 | Inner_1RB_Left | 21.90 | / | / | 24.6 | / | / | <=30 | Pass |
| | | Inner_1RB_Right | 22.05 | / | / | 24.75 | / | / | <=30 | Pass |
| | | Edge_1RB_Left | 20.49 | / | / | 23.19 | / | / | <=30 | Pass |
| | | Edge_1RB_Right | 20.44 | / | / | 23.14 | / | / | <=30 | Pass |
| | | Outer_Full | 20.37 | / | / | 23.07 | / | / | <=30 | Pass |
| | 1702.5 | Inner_Full | 20.43 | / | / | 23.13 | / | / | <=30 | Pass |
| | | Inner_1RB_Left | 20.59 | / | / | 23.29 | / | / | <=30 | Pass |
| | | Inner_1RB_Right | 20.48 | / | / | 23.18 | / | / | <=30 | Pass |
| | | Edge_1RB_Left | 20.48 | / | / | 23.18 | / | / | <=30 | Pass |
| | | Edge_1RB_Right | 20.56 | / | / | 23.26 | / | / | <=30 | Pass |
| | 1707.5 | Outer_Full | 20.34 | / | / | 23.04 | / | / | <=30 | Pass |
| | | Inner_Full | 20.34 | / | / | 23.04 | / | / | <=30 | Pass |
| | | Inner_1RB_Left | 20.43 | / | / | 23.13 | / | / | <=30 | Pass |
| | | Inner_1RB_Right | 20.54 | / | / | 23.24 | / | / | <=30 | Pass |
| | | Edge_1RB_Left | 20.61 | / | / | 23.31 | / | / | <=30 | Pass |
| DFT-s-OFDM 256 QAM | 1697.5 | Edge_1RB_Right | 20.69 | / | / | 23.39 | / | / | <=30 | Pass |
| | | Outer_Full | 20.49 | / | / | 23.19 | / | / | <=30 | Pass |
| | | Inner_Full | 20.59 | / | / | 23.29 | / | / | <=30 | Pass |
| | | Inner_1RB_Left | 20.59 | / | / | 23.29 | / | / | <=30 | Pass |
| | | Inner_1RB_Right | 20.78 | / | / | 23.48 | / | / | <=30 | Pass |
| | 1702.5 | Edge_1RB_Left | 17.80 | / | / | 20.5 | / | / | <=30 | Pass |
| | | Edge_1RB_Right | 17.80 | / | / | 20.5 | / | / | <=30 | Pass |
| | | Outer_Full | 18.22 | / | / | 20.92 | / | / | <=30 | Pass |
| | | Inner_Full | 18.27 | / | / | 20.97 | / | / | <=30 | Pass |
| | | Inner_1RB_Left | 17.84 | / | / | 20.54 | / | / | <=30 | Pass |
| | 1707.5 | Inner_1RB_Right | 17.75 | / | / | 20.45 | / | / | <=30 | Pass |
| | | Edge_1RB_Left | 17.73 | / | / | 20.43 | / | / | <=30 | Pass |
| | | Edge_1RB_Right | 17.79 | / | / | 20.49 | / | / | <=30 | Pass |
| | | Outer_Full | 18.23 | / | / | 20.93 | / | / | <=30 | Pass |
| | | Inner_Full | 18.28 | / | / | 20.98 | / | / | <=30 | Pass |
| | 1707.5 | Inner_1RB_Left | 17.72 | / | / | 20.42 | / | / | <=30 | Pass |
| | | Inner_1RB_Right | 17.73 | / | / | 20.43 | / | / | <=30 | Pass |
| | | Edge_1RB_Left | 17.86 | / | / | 20.56 | / | / | <=30 | Pass |



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|----------------|--------|-----------------|-----------------|-----------------|-------|-------|-------|-------|------|------|------|------|
| CP-OFDM QPSK | 1697.5 | Edge_1RB_Right | 18.02 | / | / | 20.72 | / | / | <=30 | Pass | | |
| | | Outer_Full | 18.46 | / | / | 21.16 | / | / | <=30 | Pass | | |
| | | Inner_Full | 18.44 | / | / | 21.14 | / | / | <=30 | Pass | | |
| | | Inner_1RB_Left | 17.91 | / | / | 20.61 | / | / | <=30 | Pass | | |
| | | Inner_1RB_Right | 17.98 | / | / | 20.68 | / | / | <=30 | Pass | | |
| | 1702.5 | 1697.5 | Edge_1RB_Left | 19.80 | / | / | 22.5 | / | / | <=30 | Pass | |
| | | | Edge_1RB_Right | 19.69 | / | / | 22.39 | / | / | <=30 | Pass | |
| | | | Outer_Full | 19.86 | / | / | 22.56 | / | / | <=30 | Pass | |
| | | | Inner_Full | 21.21 | / | / | 23.91 | / | / | <=30 | Pass | |
| | | | Inner_1RB_Left | 21.19 | / | / | 23.89 | / | / | <=30 | Pass | |
| | | 1702.5 | 1702.5 | Inner_1RB_Right | 21.10 | / | / | 23.8 | / | / | <=30 | Pass |
| | | | | Edge_1RB_Left | 19.83 | / | / | 22.53 | / | / | <=30 | Pass |
| | | | | Edge_1RB_Right | 19.85 | / | / | 22.55 | / | / | <=30 | Pass |
| | | | | Outer_Full | 19.76 | / | / | 22.46 | / | / | <=30 | Pass |
| | | | | Inner_Full | 21.36 | / | / | 24.06 | / | / | <=30 | Pass |
| 1707.5 | 1707.5 | Inner_1RB_Left | 21.13 | / | / | 23.83 | / | / | <=30 | Pass | | |
| | | Inner_1RB_Right | 21.24 | / | / | 23.94 | / | / | <=30 | Pass | | |
| | | Edge_1RB_Left | 19.88 | / | / | 22.58 | / | / | <=30 | Pass | | |
| | | Edge_1RB_Right | 20.09 | / | / | 22.79 | / | / | <=30 | Pass | | |
| | | Outer_Full | 19.99 | / | / | 22.69 | / | / | <=30 | Pass | | |
| CP-OFDM 16 QAM | 1697.5 | Inner_Full | 21.58 | / | / | 24.28 | / | / | <=30 | Pass | | |
| | | Inner_1RB_Left | 21.34 | / | / | 24.04 | / | / | <=30 | Pass | | |
| | | Inner_1RB_Right | 21.49 | / | / | 24.19 | / | / | <=30 | Pass | | |
| | | Edge_1RB_Left | 19.77 | / | / | 22.47 | / | / | <=30 | Pass | | |
| | | Edge_1RB_Right | 19.80 | / | / | 22.5 | / | / | <=30 | Pass | | |
| | 1702.5 | 1697.5 | Outer_Full | 19.87 | / | / | 22.57 | / | / | <=30 | Pass | |
| | | | Inner_Full | 20.71 | / | / | 23.41 | / | / | <=30 | Pass | |
| | | | Inner_1RB_Left | 20.97 | / | / | 23.67 | / | / | <=30 | Pass | |
| | | | Inner_1RB_Right | 20.95 | / | / | 23.65 | / | / | <=30 | Pass | |
| | | | Edge_1RB_Left | 19.67 | / | / | 22.37 | / | / | <=30 | Pass | |
| | | 1702.5 | 1702.5 | Edge_1RB_Right | 19.68 | / | / | 22.38 | / | / | <=30 | Pass |
| | | | | Outer_Full | 19.82 | / | / | 22.52 | / | / | <=30 | Pass |
| | | | | Inner_Full | 20.68 | / | / | 23.38 | / | / | <=30 | Pass |
| | | | | Inner_1RB_Left | 20.69 | / | / | 23.39 | / | / | <=30 | Pass |
| | | | | Inner_1RB_Right | 20.84 | / | / | 23.54 | / | / | <=30 | Pass |
| 1707.5 | 1707.5 | Edge_1RB_Left | 19.84 | / | / | 22.54 | / | / | <=30 | Pass | | |
| | | Edge_1RB_Right | 20.02 | / | / | 22.72 | / | / | <=30 | Pass | | |
| | | Outer_Full | 20.02 | / | / | 22.72 | / | / | <=30 | Pass | | |
| | | Inner_Full | 20.85 | / | / | 23.55 | / | / | <=30 | Pass | | |
| | | Inner_1RB_Left | 21.06 | / | / | 23.76 | / | / | <=30 | Pass | | |
| CP-OFDM 64 QAM | 1697.5 | Inner_1RB_Right | 21.16 | / | / | 23.86 | / | / | <=30 | Pass | | |
| | | Edge_1RB_Left | 19.40 | / | / | 22.1 | / | / | <=30 | Pass | | |
| | | Edge_1RB_Right | 19.33 | / | / | 22.03 | / | / | <=30 | Pass | | |
| | | Outer_Full | 19.33 | / | / | 22.03 | / | / | <=30 | Pass | | |
| | | Inner_Full | 19.39 | / | / | 22.09 | / | / | <=30 | Pass | | |
| | 1702.5 | 1697.5 | Inner_1RB_Left | 19.42 | / | / | 22.12 | / | / | <=30 | Pass | |
| | | | Inner_1RB_Right | 19.33 | / | / | 22.03 | / | / | <=30 | Pass | |
| | | | Edge_1RB_Left | 19.25 | / | / | 21.95 | / | / | <=30 | Pass | |



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| CP-OFDM 256 QAM | 1707.5 | Edge_1RB_Right | 19.41 | / | / | 22.11 | / | / | <=30 | Pass | |
| | | Outer_Full | 19.28 | / | / | 21.98 | / | / | <=30 | Pass | |
| | | Inner_Full | 19.33 | / | / | 22.03 | / | / | <=30 | Pass | |
| | | Inner_1RB_Left | 19.32 | / | / | 22.02 | / | / | <=30 | Pass | |
| | | Inner_1RB_Right | 19.36 | / | / | 22.06 | / | / | <=30 | Pass | |
| | 1707.5 | Edge_1RB_Right | 19.48 | / | / | 22.18 | / | / | <=30 | Pass | |
| | | Edge_1RB_Right | 19.61 | / | / | 22.31 | / | / | <=30 | Pass | |
| | | Outer_Full | 19.51 | / | / | 22.21 | / | / | <=30 | Pass | |
| | | Inner_Full | 19.54 | / | / | 22.24 | / | / | <=30 | Pass | |
| | | Inner_1RB_Left | 19.45 | / | / | 22.15 | / | / | <=30 | Pass | |
| | 1697.5 | 1702.5 | Inner_1RB_Right | 19.59 | / | / | 22.29 | / | / | <=30 | Pass |
| | | | Edge_1RB_Left | 15.88 | / | / | 18.58 | / | / | <=30 | Pass |
| | | 1707.5 | Edge_1RB_Right | 15.88 | / | / | 18.58 | / | / | <=30 | Pass |
| | | | Outer_Full | 16.28 | / | / | 18.98 | / | / | <=30 | Pass |
| | | | Inner_Full | 16.39 | / | / | 19.09 | / | / | <=30 | Pass |
| Inner_1RB_Left | | | 15.87 | / | / | 18.57 | / | / | <=30 | Pass | |
| Inner_1RB_Right | | | 15.88 | / | / | 18.58 | / | / | <=30 | Pass | |
| 1702.5 | | | Edge_1RB_Left | 15.85 | / | / | 18.55 | / | / | <=30 | Pass |
| | | | Edge_1RB_Right | 15.86 | / | / | 18.56 | / | / | <=30 | Pass |
| 1707.5 | | | Outer_Full | 16.25 | / | / | 18.95 | / | / | <=30 | Pass |
| | Inner_Full | 16.33 | / | / | 19.03 | / | / | <=30 | Pass | | |
| | Inner_1RB_Left | 15.88 | / | / | 18.58 | / | / | <=30 | Pass | | |
| | Inner_1RB_Right | 15.81 | / | / | 18.51 | / | / | <=30 | Pass | | |
| | Edge_1RB_Left | 15.94 | / | / | 18.64 | / | / | <=30 | Pass | | |
| | Edge_1RB_Right | 16.14 | / | / | 18.84 | / | / | <=30 | Pass | | |
| 1707.5 | Outer_Full | 16.41 | / | / | 19.11 | / | / | <=30 | Pass | | |
| | Inner_Full | 16.52 | / | / | 19.22 | / | / | <=30 | Pass | | |
| | Inner_1RB_Left | 15.94 | / | / | 18.64 | / | / | <=30 | Pass | | |
| | Inner_1RB_Right | 16.13 | / | / | 18.83 | / | / | <=30 | Pass | | |

Note1: Antenna Gain: Ant1: 2.7dBi;
 Note2: EIRP=Conducted Power+Antenna Gain

1.2 15k_SISO_10MHz_NTNV_EIRP

1.2.1 Test Result

| 5G NR n70 SCS=15kHz SISO 10MHz NTN | | | | | | | | | | |
|------------------------------------|-----------------|-----------------|----------------------|------|-----|-----------|------|-----|-------|---------|
| Modulation | Frequency (MHz) | RB Allocation | Conducted Power(dBm) | | | EIRP(dBm) | | | | Verdict |
| | | | Ant1 | Ant2 | Sum | Ant1 | Ant2 | Sum | Limit | |
| DFT-s-OFDM PI/2 BPSK | 1700 | Edge_1RB_Left | 22.35 | / | / | 25.05 | / | / | <=30 | Pass |
| | | Edge_1RB_Right | 22.32 | / | / | 25.02 | / | / | <=30 | Pass |
| | | Outer_Full | 22.37 | / | / | 25.07 | / | / | <=30 | Pass |
| | | Inner_Full | 22.83 | / | / | 25.53 | / | / | <=30 | Pass |
| | | Inner_1RB_Left | 22.87 | / | / | 25.57 | / | / | <=30 | Pass |
| | | Inner_1RB_Right | 22.82 | / | / | 25.52 | / | / | <=30 | Pass |
| | 1702.5 | Edge_1RB_Left | 22.23 | / | / | 24.93 | / | / | <=30 | Pass |



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| | | | | | | | | | | |
|-------------------|-----------------|-----------------|-------|---|-------|-------|---|------|------|------|
| | | Edge_1RB_Right | 22.37 | / | / | 25.07 | / | / | <=30 | Pass |
| | | Outer_Full | 22.33 | / | / | 25.03 | / | / | <=30 | Pass |
| | | Inner_Full | 22.77 | / | / | 25.47 | / | / | <=30 | Pass |
| | | Inner_1RB_Left | 22.69 | / | / | 25.39 | / | / | <=30 | Pass |
| | | Inner_1RB_Right | 22.84 | / | / | 25.54 | / | / | <=30 | Pass |
| | 1705 | Edge_1RB_Right | 22.37 | / | / | 25.07 | / | / | <=30 | Pass |
| | | Edge_1RB_Right | 22.50 | / | / | 25.2 | / | / | <=30 | Pass |
| | | Outer_Full | 22.42 | / | / | 25.12 | / | / | <=30 | Pass |
| | | Inner_Full | 22.97 | / | / | 25.67 | / | / | <=30 | Pass |
| | | Inner_1RB_Left | 22.79 | / | / | 25.49 | / | / | <=30 | Pass |
| DFT-s-OFDM QPSK | 1700 | Inner_1RB_Right | 23.00 | / | / | 25.7 | / | / | <=30 | Pass |
| | | Edge_1RB_Left | 21.80 | / | / | 24.5 | / | / | <=30 | Pass |
| | | Edge_1RB_Right | 21.75 | / | / | 24.45 | / | / | <=30 | Pass |
| | | Outer_Full | 21.79 | / | / | 24.49 | / | / | <=30 | Pass |
| | | Inner_Full | 22.78 | / | / | 25.48 | / | / | <=30 | Pass |
| | 1702.5 | Inner_1RB_Left | 22.78 | / | / | 25.48 | / | / | <=30 | Pass |
| | | Inner_1RB_Right | 22.81 | / | / | 25.51 | / | / | <=30 | Pass |
| | | Edge_1RB_Left | 21.73 | / | / | 24.43 | / | / | <=30 | Pass |
| | | Edge_1RB_Right | 21.81 | / | / | 24.51 | / | / | <=30 | Pass |
| | | Outer_Full | 21.79 | / | / | 24.49 | / | / | <=30 | Pass |
| 1705 | Inner_Full | 22.78 | / | / | 25.48 | / | / | <=30 | Pass | |
| | Inner_1RB_Left | 22.68 | / | / | 25.38 | / | / | <=30 | Pass | |
| | Inner_1RB_Right | 22.77 | / | / | 25.47 | / | / | <=30 | Pass | |
| | Edge_1RB_Left | 21.83 | / | / | 24.53 | / | / | <=30 | Pass | |
| | Edge_1RB_Right | 22.05 | / | / | 24.75 | / | / | <=30 | Pass | |
| DFT-s-OFDM 16 QAM | 1700 | Outer_Full | 21.94 | / | / | 24.64 | / | / | <=30 | Pass |
| | | Inner_Full | 22.93 | / | / | 25.63 | / | / | <=30 | Pass |
| | | Inner_1RB_Left | 22.83 | / | / | 25.53 | / | / | <=30 | Pass |
| | | Inner_1RB_Right | 23.05 | / | / | 25.75 | / | / | <=30 | Pass |
| | | Edge_1RB_Left | 20.85 | / | / | 23.55 | / | / | <=30 | Pass |
| | 1702.5 | Edge_1RB_Right | 20.83 | / | / | 23.53 | / | / | <=30 | Pass |
| | | Outer_Full | 20.88 | / | / | 23.58 | / | / | <=30 | Pass |
| | | Inner_Full | 21.85 | / | / | 24.55 | / | / | <=30 | Pass |
| | | Inner_1RB_Left | 21.72 | / | / | 24.42 | / | / | <=30 | Pass |
| | | Inner_1RB_Right | 21.83 | / | / | 24.53 | / | / | <=30 | Pass |
| 1705 | Edge_1RB_Left | 20.77 | / | / | 23.47 | / | / | <=30 | Pass | |
| | Edge_1RB_Right | 20.84 | / | / | 23.54 | / | / | <=30 | Pass | |
| | Outer_Full | 20.83 | / | / | 23.53 | / | / | <=30 | Pass | |
| | Inner_Full | 21.86 | / | / | 24.56 | / | / | <=30 | Pass | |
| | Inner_1RB_Left | 21.78 | / | / | 24.48 | / | / | <=30 | Pass | |
| DFT-s-OFDM 64 QAM | 1700 | Inner_1RB_Right | 21.83 | / | / | 24.53 | / | / | <=30 | Pass |
| | | Edge_1RB_Left | 20.84 | / | / | 23.54 | / | / | <=30 | Pass |
| | | Edge_1RB_Right | 21.03 | / | / | 23.73 | / | / | <=30 | Pass |
| | | Outer_Full | 20.96 | / | / | 23.66 | / | / | <=30 | Pass |
| | | Inner_Full | 22.01 | / | / | 24.71 | / | / | <=30 | Pass |
| | | Inner_1RB_Left | 21.86 | / | / | 24.56 | / | / | <=30 | Pass |
| | | Inner_1RB_Right | 21.99 | / | / | 24.69 | / | / | <=30 | Pass |
| | | Edge_1RB_Left | 20.55 | / | / | 23.25 | / | / | <=30 | Pass |



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|--------------------|--------|-----------------|-------|---|---|-------|---|---|------|------|
| | | Edge_1RB_Right | 20.46 | / | / | 23.16 | / | / | <=30 | Pass |
| | | Outer_Full | 20.44 | / | / | 23.14 | / | / | <=30 | Pass |
| | | Inner_Full | 20.37 | / | / | 23.07 | / | / | <=30 | Pass |
| | | Inner_1RB_Left | 20.52 | / | / | 23.22 | / | / | <=30 | Pass |
| | | Inner_1RB_Right | 20.49 | / | / | 23.19 | / | / | <=30 | Pass |
| | 1702.5 | Edge_1RB_Left | 20.48 | / | / | 23.18 | / | / | <=30 | Pass |
| | | Edge_1RB_Right | 20.54 | / | / | 23.24 | / | / | <=30 | Pass |
| | | Outer_Full | 20.41 | / | / | 23.11 | / | / | <=30 | Pass |
| | | Inner_Full | 20.32 | / | / | 23.02 | / | / | <=30 | Pass |
| | | Inner_1RB_Left | 20.36 | / | / | 23.06 | / | / | <=30 | Pass |
| | 1705 | Inner_1RB_Right | 20.53 | / | / | 23.23 | / | / | <=30 | Pass |
| | | Edge_1RB_Left | 20.61 | / | / | 23.31 | / | / | <=30 | Pass |
| | | Edge_1RB_Right | 20.71 | / | / | 23.41 | / | / | <=30 | Pass |
| | | Outer_Full | 20.51 | / | / | 23.21 | / | / | <=30 | Pass |
| | | Inner_Full | 20.46 | / | / | 23.16 | / | / | <=30 | Pass |
| DFT-s-OFDM 256 QAM | 1700 | Inner_1RB_Left | 20.58 | / | / | 23.28 | / | / | <=30 | Pass |
| | | Inner_1RB_Right | 20.67 | / | / | 23.37 | / | / | <=30 | Pass |
| | | Edge_1RB_Left | 17.79 | / | / | 20.49 | / | / | <=30 | Pass |
| | | Edge_1RB_Right | 17.78 | / | / | 20.48 | / | / | <=30 | Pass |
| | | Outer_Full | 18.30 | / | / | 21 | / | / | <=30 | Pass |
| | 1702.5 | Inner_Full | 18.30 | / | / | 21 | / | / | <=30 | Pass |
| | | Inner_1RB_Left | 17.86 | / | / | 20.56 | / | / | <=30 | Pass |
| | | Inner_1RB_Right | 17.75 | / | / | 20.45 | / | / | <=30 | Pass |
| | | Edge_1RB_Left | 17.78 | / | / | 20.48 | / | / | <=30 | Pass |
| | | Edge_1RB_Right | 17.91 | / | / | 20.61 | / | / | <=30 | Pass |
| | 1705 | Outer_Full | 18.27 | / | / | 20.97 | / | / | <=30 | Pass |
| | | Inner_Full | 18.22 | / | / | 20.92 | / | / | <=30 | Pass |
| | | Inner_1RB_Left | 17.75 | / | / | 20.45 | / | / | <=30 | Pass |
| | | Inner_1RB_Right | 17.90 | / | / | 20.6 | / | / | <=30 | Pass |
| | | Edge_1RB_Left | 17.78 | / | / | 20.48 | / | / | <=30 | Pass |
| CP-OFDM QPSK | 1700 | Edge_1RB_Right | 17.95 | / | / | 20.65 | / | / | <=30 | Pass |
| | | Outer_Full | 18.38 | / | / | 21.08 | / | / | <=30 | Pass |
| | | Inner_Full | 18.35 | / | / | 21.05 | / | / | <=30 | Pass |
| | | Inner_1RB_Left | 17.78 | / | / | 20.48 | / | / | <=30 | Pass |
| | | Inner_1RB_Right | 18.01 | / | / | 20.71 | / | / | <=30 | Pass |
| | 1702.5 | Edge_1RB_Left | 19.98 | / | / | 22.68 | / | / | <=30 | Pass |
| | | Edge_1RB_Right | 19.94 | / | / | 22.64 | / | / | <=30 | Pass |
| | | Outer_Full | 19.77 | / | / | 22.47 | / | / | <=30 | Pass |
| | | Inner_Full | 21.28 | / | / | 23.98 | / | / | <=30 | Pass |
| | | Inner_1RB_Left | 21.33 | / | / | 24.03 | / | / | <=30 | Pass |
| | 1705 | Inner_1RB_Right | 21.20 | / | / | 23.9 | / | / | <=30 | Pass |
| | | Edge_1RB_Left | 19.76 | / | / | 22.46 | / | / | <=30 | Pass |
| | | Edge_1RB_Right | 19.85 | / | / | 22.55 | / | / | <=30 | Pass |
| | | Outer_Full | 19.82 | / | / | 22.52 | / | / | <=30 | Pass |
| | | Inner_Full | 21.25 | / | / | 23.95 | / | / | <=30 | Pass |
| | 1705 | Inner_1RB_Left | 21.17 | / | / | 23.87 | / | / | <=30 | Pass |
| | | Inner_1RB_Right | 21.39 | / | / | 24.09 | / | / | <=30 | Pass |
| | | Edge_1RB_Left | 19.72 | / | / | 22.42 | / | / | <=30 | Pass |



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|-----------------|-----------------|-----------------|-------|---|-------|-------|---|------|------|------|
| | | Edge_1RB_Right | 20.04 | / | / | 22.74 | / | / | <=30 | Pass |
| | | Outer_Full | 19.90 | / | / | 22.6 | / | / | <=30 | Pass |
| | | Inner_Full | 21.46 | / | / | 24.16 | / | / | <=30 | Pass |
| | | Inner_1RB_Left | 21.26 | / | / | 23.96 | / | / | <=30 | Pass |
| | | Inner_1RB_Right | 21.48 | / | / | 24.18 | / | / | <=30 | Pass |
| CP-OFDM 16 QAM | 1700 | Edge_1RB_Left | 19.63 | / | / | 22.33 | / | / | <=30 | Pass |
| | | Edge_1RB_Right | 19.72 | / | / | 22.42 | / | / | <=30 | Pass |
| | | Outer_Full | 19.81 | / | / | 22.51 | / | / | <=30 | Pass |
| | | Inner_Full | 20.80 | / | / | 23.5 | / | / | <=30 | Pass |
| | | Inner_1RB_Left | 20.90 | / | / | 23.6 | / | / | <=30 | Pass |
| | 1702.5 | Inner_1RB_Right | 20.90 | / | / | 23.6 | / | / | <=30 | Pass |
| | | Edge_1RB_Left | 19.74 | / | / | 22.44 | / | / | <=30 | Pass |
| | | Edge_1RB_Right | 19.74 | / | / | 22.44 | / | / | <=30 | Pass |
| | | Outer_Full | 19.78 | / | / | 22.48 | / | / | <=30 | Pass |
| | | Inner_Full | 20.89 | / | / | 23.59 | / | / | <=30 | Pass |
| | 1705 | Inner_1RB_Left | 20.58 | / | / | 23.28 | / | / | <=30 | Pass |
| | | Inner_1RB_Right | 20.91 | / | / | 23.61 | / | / | <=30 | Pass |
| | | Edge_1RB_Left | 19.81 | / | / | 22.51 | / | / | <=30 | Pass |
| | | Edge_1RB_Right | 20.07 | / | / | 22.77 | / | / | <=30 | Pass |
| | | Outer_Full | 19.89 | / | / | 22.59 | / | / | <=30 | Pass |
| CP-OFDM 64 QAM | 1700 | Inner_Full | 20.99 | / | / | 23.69 | / | / | <=30 | Pass |
| | | Inner_1RB_Left | 20.89 | / | / | 23.59 | / | / | <=30 | Pass |
| | | Inner_1RB_Right | 20.99 | / | / | 23.69 | / | / | <=30 | Pass |
| | | Edge_1RB_Left | 19.33 | / | / | 22.03 | / | / | <=30 | Pass |
| | | Edge_1RB_Right | 19.28 | / | / | 21.98 | / | / | <=30 | Pass |
| | 1702.5 | Outer_Full | 19.33 | / | / | 22.03 | / | / | <=30 | Pass |
| | | Inner_Full | 19.36 | / | / | 22.06 | / | / | <=30 | Pass |
| | | Inner_1RB_Left | 19.42 | / | / | 22.12 | / | / | <=30 | Pass |
| | | Inner_1RB_Right | 19.27 | / | / | 21.97 | / | / | <=30 | Pass |
| | | Edge_1RB_Left | 19.31 | / | / | 22.01 | / | / | <=30 | Pass |
| | 1705 | Edge_1RB_Right | 19.52 | / | / | 22.22 | / | / | <=30 | Pass |
| | | Outer_Full | 19.30 | / | / | 22 | / | / | <=30 | Pass |
| | | Inner_Full | 19.39 | / | / | 22.09 | / | / | <=30 | Pass |
| | | Inner_1RB_Left | 19.31 | / | / | 22.01 | / | / | <=30 | Pass |
| | | Inner_1RB_Right | 19.54 | / | / | 22.24 | / | / | <=30 | Pass |
| CP-OFDM 256 QAM | 1700 | Edge_1RB_Left | 19.36 | / | / | 22.06 | / | / | <=30 | Pass |
| | | Edge_1RB_Right | 19.56 | / | / | 22.26 | / | / | <=30 | Pass |
| | | Outer_Full | 19.49 | / | / | 22.19 | / | / | <=30 | Pass |
| | | Inner_Full | 19.56 | / | / | 22.26 | / | / | <=30 | Pass |
| | | Inner_1RB_Left | 19.35 | / | / | 22.05 | / | / | <=30 | Pass |
| 1702.5 | Inner_1RB_Right | 19.51 | / | / | 22.21 | / | / | <=30 | Pass | |
| | Edge_1RB_Left | 15.96 | / | / | 18.66 | / | / | <=30 | Pass | |
| | Edge_1RB_Right | 15.95 | / | / | 18.65 | / | / | <=30 | Pass | |
| | Outer_Full | 16.24 | / | / | 18.94 | / | / | <=30 | Pass | |
| | Inner_Full | 16.35 | / | / | 19.05 | / | / | <=30 | Pass | |
| | Inner_1RB_Left | 15.98 | / | / | 18.68 | / | / | <=30 | Pass | |
| | | Inner_1RB_Right | 15.99 | / | / | 18.69 | / | / | <=30 | Pass |
| | | Edge_1RB_Left | 15.96 | / | / | 18.66 | / | / | <=30 | Pass |



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|-----------------|-----------------|-------|---|-------|-------|---|------|------|------|
| 1705 | Edge_1RB_Right | 16.00 | / | / | 18.7 | / | / | <=30 | Pass |
| | Outer_Full | 16.27 | / | / | 18.97 | / | / | <=30 | Pass |
| | Inner_Full | 16.29 | / | / | 18.99 | / | / | <=30 | Pass |
| | Inner_1RB_Left | 15.98 | / | / | 18.68 | / | / | <=30 | Pass |
| | Inner_1RB_Right | 16.02 | / | / | 18.72 | / | / | <=30 | Pass |
| | Edge_1RB_Left | 15.83 | / | / | 18.53 | / | / | <=30 | Pass |
| | Edge_1RB_Right | 16.01 | / | / | 18.71 | / | / | <=30 | Pass |
| | Outer_Full | 16.36 | / | / | 19.06 | / | / | <=30 | Pass |
| | Inner_Full | 16.45 | / | / | 19.15 | / | / | <=30 | Pass |
| | Inner_1RB_Left | 15.96 | / | / | 18.66 | / | / | <=30 | Pass |
| Inner_1RB_Right | 16.16 | / | / | 18.86 | / | / | <=30 | Pass | |

Note1: Antenna Gain: Ant1: 2.7dBi;
Note2: EIRP=Conducted Power+Antenna Gain

1.3 15k_SISO_15MHz_NTNV_EIRP

1.3.1 Test Result

| 5G NR n70 SCS=15kHz SISO 15MHz NTNv | | | | | | | | | | |
|-------------------------------------|-----------------|-----------------|----------------------|------|-----|-----------|------|-----|-------|---------|
| Modulation | Frequency (MHz) | RB Allocation | Conducted Power(dBm) | | | EIRP(dBm) | | | | Verdict |
| | | | Ant1 | Ant2 | Sum | Ant1 | Ant2 | Sum | Limit | |
| DFT-s-OFDM PI/2 BPSK | 1702.5 | Edge_1RB_Left | 22.22 | / | / | 24.92 | / | / | <=30 | Pass |
| | | Edge_1RB_Right | 22.31 | / | / | 25.01 | / | / | <=30 | Pass |
| | | Outer_Full | 22.30 | / | / | 25 | / | / | <=30 | Pass |
| | | Inner_Full | 22.76 | / | / | 25.46 | / | / | <=30 | Pass |
| | | Inner_1RB_Left | 22.66 | / | / | 25.36 | / | / | <=30 | Pass |
| | | Inner_1RB_Right | 22.81 | / | / | 25.51 | / | / | <=30 | Pass |
| | 1702.5 | Edge_1RB_Left | 22.22 | / | / | 24.92 | / | / | <=30 | Pass |
| | | Edge_1RB_Right | 22.42 | / | / | 25.12 | / | / | <=30 | Pass |
| | | Outer_Full | 22.26 | / | / | 24.96 | / | / | <=30 | Pass |
| | | Inner_Full | 22.74 | / | / | 25.44 | / | / | <=30 | Pass |
| | | Inner_1RB_Left | 22.76 | / | / | 25.46 | / | / | <=30 | Pass |
| | | Inner_1RB_Right | 22.88 | / | / | 25.58 | / | / | <=30 | Pass |
| | 1702.5 | Edge_1RB_Left | 22.32 | / | / | 25.02 | / | / | <=30 | Pass |
| | | Edge_1RB_Right | 22.31 | / | / | 25.01 | / | / | <=30 | Pass |
| | | Outer_Full | 22.26 | / | / | 24.96 | / | / | <=30 | Pass |
| | | Inner_Full | 22.74 | / | / | 25.44 | / | / | <=30 | Pass |
| | | Inner_1RB_Left | 22.65 | / | / | 25.35 | / | / | <=30 | Pass |
| | | Inner_1RB_Right | 22.82 | / | / | 25.52 | / | / | <=30 | Pass |
| DFT-s-OFDM QPSK | 1702.5 | Edge_1RB_Left | 21.70 | / | / | 24.4 | / | / | <=30 | Pass |
| | | Edge_1RB_Right | 21.87 | / | / | 24.57 | / | / | <=30 | Pass |
| | | Outer_Full | 21.86 | / | / | 24.56 | / | / | <=30 | Pass |
| | | Inner_Full | 22.75 | / | / | 25.45 | / | / | <=30 | Pass |
| | | Inner_1RB_Left | 22.72 | / | / | 25.42 | / | / | <=30 | Pass |
| | | Inner_1RB_Right | 22.88 | / | / | 25.58 | / | / | <=30 | Pass |
| | 1702.5 | Edge_1RB_Left | 21.83 | / | / | 24.53 | / | / | <=30 | Pass |



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| | | | | | | | | | | |
|-------------------|-----------------|-----------------|-------|---|-------|-------|---|------|------|------|
| | | Edge_1RB_Right | 21.90 | / | / | 24.6 | / | / | <=30 | Pass |
| | | Outer_Full | 21.85 | / | / | 24.55 | / | / | <=30 | Pass |
| | | Inner_Full | 22.75 | / | / | 25.45 | / | / | <=30 | Pass |
| | | Inner_1RB_Left | 22.73 | / | / | 25.43 | / | / | <=30 | Pass |
| | | Inner_1RB_Right | 22.89 | / | / | 25.59 | / | / | <=30 | Pass |
| | 1702.5 | Edge_1RB_Right | 21.71 | / | / | 24.41 | / | / | <=30 | Pass |
| | | Edge_1RB_Right | 21.80 | / | / | 24.5 | / | / | <=30 | Pass |
| | | Outer_Full | 21.71 | / | / | 24.41 | / | / | <=30 | Pass |
| | | Inner_Full | 22.80 | / | / | 25.5 | / | / | <=30 | Pass |
| | | Inner_1RB_Left | 22.63 | / | / | 25.33 | / | / | <=30 | Pass |
| DFT-s-OFDM 16 QAM | 1702.5 | Inner_1RB_Right | 22.79 | / | / | 25.49 | / | / | <=30 | Pass |
| | | Edge_1RB_Left | 20.73 | / | / | 23.43 | / | / | <=30 | Pass |
| | | Edge_1RB_Right | 20.88 | / | / | 23.58 | / | / | <=30 | Pass |
| | | Outer_Full | 20.72 | / | / | 23.42 | / | / | <=30 | Pass |
| | | Inner_Full | 21.79 | / | / | 24.49 | / | / | <=30 | Pass |
| | 1702.5 | Inner_1RB_Left | 21.65 | / | / | 24.35 | / | / | <=30 | Pass |
| | | Inner_1RB_Right | 21.84 | / | / | 24.54 | / | / | <=30 | Pass |
| | | Edge_1RB_Left | 20.68 | / | / | 23.38 | / | / | <=30 | Pass |
| | | Edge_1RB_Right | 20.75 | / | / | 23.45 | / | / | <=30 | Pass |
| | | Outer_Full | 20.74 | / | / | 23.44 | / | / | <=30 | Pass |
| 1702.5 | Inner_Full | 21.70 | / | / | 24.4 | / | / | <=30 | Pass | |
| | Inner_1RB_Left | 21.64 | / | / | 24.34 | / | / | <=30 | Pass | |
| | Inner_1RB_Right | 21.78 | / | / | 24.48 | / | / | <=30 | Pass | |
| | Edge_1RB_Left | 20.62 | / | / | 23.32 | / | / | <=30 | Pass | |
| | Edge_1RB_Right | 20.78 | / | / | 23.48 | / | / | <=30 | Pass | |
| DFT-s-OFDM 64 QAM | 1702.5 | Outer_Full | 20.78 | / | / | 23.48 | / | / | <=30 | Pass |
| | | Inner_Full | 21.67 | / | / | 24.37 | / | / | <=30 | Pass |
| | | Inner_1RB_Left | 21.62 | / | / | 24.32 | / | / | <=30 | Pass |
| | | Inner_1RB_Right | 21.72 | / | / | 24.42 | / | / | <=30 | Pass |
| | | Edge_1RB_Left | 20.38 | / | / | 23.08 | / | / | <=30 | Pass |
| | 1702.5 | Edge_1RB_Right | 20.55 | / | / | 23.25 | / | / | <=30 | Pass |
| | | Outer_Full | 20.24 | / | / | 22.94 | / | / | <=30 | Pass |
| | | Inner_Full | 20.34 | / | / | 23.04 | / | / | <=30 | Pass |
| | | Inner_1RB_Left | 20.42 | / | / | 23.12 | / | / | <=30 | Pass |
| | | Inner_1RB_Right | 20.42 | / | / | 23.12 | / | / | <=30 | Pass |
| 1702.5 | Edge_1RB_Left | 20.43 | / | / | 23.13 | / | / | <=30 | Pass | |
| | Edge_1RB_Right | 20.60 | / | / | 23.3 | / | / | <=30 | Pass | |
| | Outer_Full | 20.32 | / | / | 23.02 | / | / | <=30 | Pass | |
| | Inner_Full | 20.21 | / | / | 22.91 | / | / | <=30 | Pass | |
| | Inner_1RB_Left | 20.33 | / | / | 23.03 | / | / | <=30 | Pass | |
| 1702.5 | Inner_1RB_Right | 20.42 | / | / | 23.12 | / | / | <=30 | Pass | |
| | Edge_1RB_Left | 20.48 | / | / | 23.18 | / | / | <=30 | Pass | |
| | Edge_1RB_Right | 20.57 | / | / | 23.27 | / | / | <=30 | Pass | |
| | Outer_Full | 20.27 | / | / | 22.97 | / | / | <=30 | Pass | |
| | Inner_Full | 20.29 | / | / | 22.99 | / | / | <=30 | Pass | |
| DFT-s-OFDM 256 | 1702.5 | Inner_1RB_Left | 20.36 | / | / | 23.06 | / | / | <=30 | Pass |
| | | Inner_1RB_Right | 20.56 | / | / | 23.26 | / | / | <=30 | Pass |
| | | Edge_1RB_Left | 17.61 | / | / | 20.31 | / | / | <=30 | Pass |



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|----------------|-----------------|-----------------|-------|---|-------|-------|---|------|------|------|
| QAM | | Edge_1RB_Right | 17.79 | / | / | 20.49 | / | / | <=30 | Pass |
| | | Outer_Full | 18.27 | / | / | 20.97 | / | / | <=30 | Pass |
| | | Inner_Full | 18.17 | / | / | 20.87 | / | / | <=30 | Pass |
| | | Inner_1RB_Left | 17.65 | / | / | 20.35 | / | / | <=30 | Pass |
| | | Inner_1RB_Right | 17.75 | / | / | 20.45 | / | / | <=30 | Pass |
| | 1702.5 | Edge_1RB_Left | 17.69 | / | / | 20.39 | / | / | <=30 | Pass |
| | | Edge_1RB_Right | 17.79 | / | / | 20.49 | / | / | <=30 | Pass |
| | | Outer_Full | 18.16 | / | / | 20.86 | / | / | <=30 | Pass |
| | | Inner_Full | 18.18 | / | / | 20.88 | / | / | <=30 | Pass |
| | | Inner_1RB_Left | 17.61 | / | / | 20.31 | / | / | <=30 | Pass |
| | 1702.5 | Inner_1RB_Right | 17.76 | / | / | 20.46 | / | / | <=30 | Pass |
| | | Edge_1RB_Left | 17.65 | / | / | 20.35 | / | / | <=30 | Pass |
| | | Edge_1RB_Right | 17.82 | / | / | 20.52 | / | / | <=30 | Pass |
| | | Outer_Full | 18.23 | / | / | 20.93 | / | / | <=30 | Pass |
| | | Inner_Full | 18.21 | / | / | 20.91 | / | / | <=30 | Pass |
| CP-OFDM QPSK | 1702.5 | Inner_1RB_Left | 17.68 | / | / | 20.38 | / | / | <=30 | Pass |
| | | Inner_1RB_Right | 17.80 | / | / | 20.5 | / | / | <=30 | Pass |
| | | Edge_1RB_Left | 19.67 | / | / | 22.37 | / | / | <=30 | Pass |
| | | Edge_1RB_Right | 19.95 | / | / | 22.65 | / | / | <=30 | Pass |
| | | Outer_Full | 19.83 | / | / | 22.53 | / | / | <=30 | Pass |
| | 1702.5 | Inner_Full | 21.24 | / | / | 23.94 | / | / | <=30 | Pass |
| | | Inner_1RB_Left | 21.15 | / | / | 23.85 | / | / | <=30 | Pass |
| | | Inner_1RB_Right | 21.33 | / | / | 24.03 | / | / | <=30 | Pass |
| | | Edge_1RB_Left | 19.87 | / | / | 22.57 | / | / | <=30 | Pass |
| | | Edge_1RB_Right | 19.93 | / | / | 22.63 | / | / | <=30 | Pass |
| | 1702.5 | Outer_Full | 19.83 | / | / | 22.53 | / | / | <=30 | Pass |
| | | Inner_Full | 21.26 | / | / | 23.96 | / | / | <=30 | Pass |
| | | Inner_1RB_Left | 21.24 | / | / | 23.94 | / | / | <=30 | Pass |
| | | Inner_1RB_Right | 21.39 | / | / | 24.09 | / | / | <=30 | Pass |
| | | Edge_1RB_Left | 19.77 | / | / | 22.47 | / | / | <=30 | Pass |
| 1702.5 | Edge_1RB_Right | 19.84 | / | / | 22.54 | / | / | <=30 | Pass | |
| | Outer_Full | 19.80 | / | / | 22.5 | / | / | <=30 | Pass | |
| | Inner_Full | 21.24 | / | / | 23.94 | / | / | <=30 | Pass | |
| | Inner_1RB_Left | 21.16 | / | / | 23.86 | / | / | <=30 | Pass | |
| | Inner_1RB_Right | 21.31 | / | / | 24.01 | / | / | <=30 | Pass | |
| CP-OFDM 16 QAM | 1702.5 | Edge_1RB_Left | 19.82 | / | / | 22.52 | / | / | <=30 | Pass |
| | | Edge_1RB_Right | 19.86 | / | / | 22.56 | / | / | <=30 | Pass |
| | | Outer_Full | 19.77 | / | / | 22.47 | / | / | <=30 | Pass |
| | | Inner_Full | 20.92 | / | / | 23.62 | / | / | <=30 | Pass |
| | | Inner_1RB_Left | 20.80 | / | / | 23.5 | / | / | <=30 | Pass |
| | 1702.5 | Inner_1RB_Right | 20.91 | / | / | 23.61 | / | / | <=30 | Pass |
| | | Edge_1RB_Left | 19.69 | / | / | 22.39 | / | / | <=30 | Pass |
| | | Edge_1RB_Right | 19.76 | / | / | 22.46 | / | / | <=30 | Pass |
| | | Outer_Full | 19.67 | / | / | 22.37 | / | / | <=30 | Pass |
| | | Inner_Full | 20.90 | / | / | 23.6 | / | / | <=30 | Pass |
| | 1702.5 | Inner_1RB_Left | 20.70 | / | / | 23.4 | / | / | <=30 | Pass |
| | | Inner_1RB_Right | 20.74 | / | / | 23.44 | / | / | <=30 | Pass |
| | | Edge_1RB_Left | 19.78 | / | / | 22.48 | / | / | <=30 | Pass |



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|-----------------|----------------|-----------------|-------|---|-------|-------|---|------|------|------|
| | | Edge_1RB_Right | 19.95 | / | / | 22.65 | / | / | <=30 | Pass |
| | | Outer_Full | 19.80 | / | / | 22.5 | / | / | <=30 | Pass |
| | | Inner_Full | 20.92 | / | / | 23.62 | / | / | <=30 | Pass |
| | | Inner_1RB_Left | 20.78 | / | / | 23.48 | / | / | <=30 | Pass |
| | | Inner_1RB_Right | 20.94 | / | / | 23.64 | / | / | <=30 | Pass |
| CP-OFDM 64 QAM | 1702.5 | Edge_1RB_Left | 19.22 | / | / | 21.92 | / | / | <=30 | Pass |
| | | Edge_1RB_Right | 19.42 | / | / | 22.12 | / | / | <=30 | Pass |
| | | Outer_Full | 19.21 | / | / | 21.91 | / | / | <=30 | Pass |
| | | Inner_Full | 19.26 | / | / | 21.96 | / | / | <=30 | Pass |
| | | Inner_1RB_Left | 19.24 | / | / | 21.94 | / | / | <=30 | Pass |
| | 1702.5 | Inner_1RB_Right | 19.45 | / | / | 22.15 | / | / | <=30 | Pass |
| | | Edge_1RB_Left | 19.27 | / | / | 21.97 | / | / | <=30 | Pass |
| | | Edge_1RB_Right | 19.44 | / | / | 22.14 | / | / | <=30 | Pass |
| | | Outer_Full | 19.21 | / | / | 21.91 | / | / | <=30 | Pass |
| | | Inner_Full | 19.21 | / | / | 21.91 | / | / | <=30 | Pass |
| | 1702.5 | Inner_1RB_Left | 19.26 | / | / | 21.96 | / | / | <=30 | Pass |
| | | Inner_1RB_Right | 19.35 | / | / | 22.05 | / | / | <=30 | Pass |
| | | Edge_1RB_Left | 19.25 | / | / | 21.95 | / | / | <=30 | Pass |
| | | Edge_1RB_Right | 19.39 | / | / | 22.09 | / | / | <=30 | Pass |
| | | Outer_Full | 19.33 | / | / | 22.03 | / | / | <=30 | Pass |
| CP-OFDM 256 QAM | 1702.5 | Inner_Full | 19.25 | / | / | 21.95 | / | / | <=30 | Pass |
| | | Inner_1RB_Left | 19.27 | / | / | 21.97 | / | / | <=30 | Pass |
| | | Inner_1RB_Right | 19.40 | / | / | 22.1 | / | / | <=30 | Pass |
| | | Edge_1RB_Left | 15.87 | / | / | 18.57 | / | / | <=30 | Pass |
| | | Edge_1RB_Right | 16.04 | / | / | 18.74 | / | / | <=30 | Pass |
| | 1702.5 | Outer_Full | 16.32 | / | / | 19.02 | / | / | <=30 | Pass |
| | | Inner_Full | 16.20 | / | / | 18.9 | / | / | <=30 | Pass |
| | | Inner_1RB_Left | 15.78 | / | / | 18.48 | / | / | <=30 | Pass |
| | | Inner_1RB_Right | 15.99 | / | / | 18.69 | / | / | <=30 | Pass |
| | | Edge_1RB_Left | 15.85 | / | / | 18.55 | / | / | <=30 | Pass |
| | 1702.5 | Edge_1RB_Right | 15.99 | / | / | 18.69 | / | / | <=30 | Pass |
| | | Outer_Full | 16.32 | / | / | 19.02 | / | / | <=30 | Pass |
| | | Inner_Full | 16.23 | / | / | 18.93 | / | / | <=30 | Pass |
| | | Inner_1RB_Left | 15.82 | / | / | 18.52 | / | / | <=30 | Pass |
| | | Inner_1RB_Right | 15.89 | / | / | 18.59 | / | / | <=30 | Pass |
| 1702.5 | Edge_1RB_Left | 15.82 | / | / | 18.52 | / | / | <=30 | Pass | |
| | Edge_1RB_Right | 16.01 | / | / | 18.71 | / | / | <=30 | Pass | |
| | Outer_Full | 16.26 | / | / | 18.96 | / | / | <=30 | Pass | |
| | Inner_Full | 16.28 | / | / | 18.98 | / | / | <=30 | Pass | |
| | Inner_1RB_Left | 15.85 | / | / | 18.55 | / | / | <=30 | Pass | |
| | | Inner_1RB_Right | 15.97 | / | / | 18.67 | / | / | <=30 | Pass |

Note1: Antenna Gain: Ant1: 2.7dBi;

Note2: EIRP=Conducted Power+Antenna Gain



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2. Frequency Stability

2.1 15k_SISO_5MHz

2.1.1 Test Result

| 5G NR n70 SCS=15kHz SISO 5MHz | | | | | | | | |
|-------------------------------|-----------------|---------------|------------|-------|------------------|-----------------------|---------|---------|
| Modulation | Frequency (MHz) | RB Allocation | Temp. (°C) | Volt. | Freq. Error (Hz) | Freq. vs. rated (ppm) | | Verdict |
| | | | | | | Result | Limit | |
| DFT-s-OFDM PI/2 BPSK | 1702.5 | Outer_Full | 20 | LV | -3.20 | -0.0019 | / | Pass |
| | | | | HV | -3.10 | -0.0018 | / | Pass |
| | | | -30 | NV | 1.10 | 0.0006 | / | Pass |
| | | | | NV | 0.70 | 0.0004 | / | Pass |
| | | | -10 | NV | 1.00 | 0.0006 | / | Pass |
| | | | | 0 | NV | -4.00 | -0.0023 | / |
| | | | 10 | NV | -4.80 | -0.0028 | / | Pass |
| | | | 20 | NV | -3.00 | -0.0018 | / | Pass |
| | | | 30 | NV | -1.70 | -0.0010 | / | Pass |
| | | | 40 | NV | -2.80 | -0.0016 | / | Pass |
| 50 | NV | 2.10 | 0.0012 | / | Pass | | | |
| DFT-s-OFDM QPSK | 1702.5 | Outer_Full | 20 | LV | 1.20 | 0.0007 | / | Pass |
| | | | | HV | -2.90 | -0.0017 | / | Pass |
| | | | -30 | NV | -4.90 | -0.0029 | / | Pass |
| | | | | NV | -4.20 | -0.0025 | / | Pass |
| | | | -10 | NV | -1.70 | -0.0010 | / | Pass |
| | | | | 0 | NV | -4.20 | -0.0025 | / |
| | | | 10 | NV | -4.50 | -0.0026 | / | Pass |
| | | | 20 | NV | -2.70 | -0.0016 | / | Pass |
| | | | 30 | NV | -3.10 | -0.0018 | / | Pass |
| | | | 40 | NV | -1.60 | -0.0009 | / | Pass |
| 50 | NV | -2.00 | -0.0012 | / | Pass | | | |
| DFT-s-OFDM 16 QAM | 1702.5 | Outer_Full | 20 | LV | -2.50 | -0.0015 | / | Pass |
| | | | | HV | 1.60 | 0.0009 | / | Pass |
| | | | -30 | NV | -1.40 | -0.0008 | / | Pass |
| | | | | NV | -3.60 | -0.0021 | / | Pass |
| | | | -10 | NV | -2.10 | -0.0012 | / | Pass |
| | | | | 0 | NV | 1.70 | 0.0010 | / |
| | | | 10 | NV | -1.30 | -0.0008 | / | Pass |
| | | | 20 | NV | -6.40 | -0.0038 | / | Pass |
| | | | 30 | NV | 1.10 | 0.0006 | / | Pass |
| | | | 40 | NV | 1.10 | 0.0006 | / | Pass |
| 50 | NV | -3.80 | -0.0022 | / | Pass | | | |
| DFT-s-OFDM 64 QAM | 1702.5 | Outer_Full | 20 | LV | 0.90 | 0.0005 | / | Pass |
| | | | | HV | -0.80 | -0.0005 | / | Pass |
| | | | -30 | NV | -1.80 | -0.0011 | / | Pass |
| | | | | NV | 1.20 | 0.0007 | / | Pass |



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|--------------------|--------|------------|-----|----|--------|---------|----|-------|---------|---|------|
| | | | -10 | NV | -6.00 | -0.0035 | / | Pass | | | |
| | | | 0 | NV | 2.00 | 0.0012 | / | Pass | | | |
| | | | 10 | NV | -4.00 | -0.0023 | / | Pass | | | |
| | | | 20 | NV | -2.90 | -0.0017 | / | Pass | | | |
| | | | 30 | NV | 1.00 | 0.0006 | / | Pass | | | |
| | | | 40 | NV | -4.20 | -0.0025 | / | Pass | | | |
| | | | 50 | NV | 2.80 | 0.0016 | / | Pass | | | |
| DFT-s-OFDM 256 QAM | 1702.5 | Outer_Full | 20 | LV | 1.80 | 0.0011 | / | Pass | | | |
| | | | | HV | -4.10 | -0.0024 | / | Pass | | | |
| | | | | | | -30 | NV | 2.40 | 0.0014 | / | Pass |
| | | | | | | -20 | NV | -3.20 | -0.0019 | / | Pass |
| | | | | | | -10 | NV | -1.80 | -0.0011 | / | Pass |
| | | | | | | 0 | NV | -2.50 | -0.0015 | / | Pass |
| | | | | | | 10 | NV | -3.40 | -0.0020 | / | Pass |
| | | | | | | 20 | NV | -1.00 | -0.0006 | / | Pass |
| | | | | | | 30 | NV | -3.10 | -0.0018 | / | Pass |
| | | | | | | 40 | NV | -5.30 | -0.0031 | / | Pass |
| | | | 50 | NV | -3.60 | -0.0021 | / | Pass | | | |
| CP-OFDM QPSK | 1702.5 | Outer_Full | 20 | LV | -8.00 | -0.0047 | / | Pass | | | |
| | | | | HV | -4.60 | -0.0027 | / | Pass | | | |
| | | | | | | -30 | NV | -5.30 | -0.0031 | / | Pass |
| | | | | | | -20 | NV | -5.50 | -0.0032 | / | Pass |
| | | | | | | -10 | NV | -4.80 | -0.0028 | / | Pass |
| | | | | | | 0 | NV | -6.40 | -0.0038 | / | Pass |
| | | | | | | 10 | NV | -6.70 | -0.0039 | / | Pass |
| | | | | | | 20 | NV | -7.20 | -0.0042 | / | Pass |
| | | | | | | 30 | NV | -3.70 | -0.0022 | / | Pass |
| | | | | | | 40 | NV | -5.00 | -0.0029 | / | Pass |
| | | | 50 | NV | -3.80 | -0.0022 | / | Pass | | | |
| CP-OFDM 16 QAM | 1702.5 | Outer_Full | 20 | LV | -7.20 | -0.0042 | / | Pass | | | |
| | | | | HV | -5.10 | -0.0030 | / | Pass | | | |
| | | | | | | -30 | NV | -3.80 | -0.0022 | / | Pass |
| | | | | | | -20 | NV | -1.10 | -0.0006 | / | Pass |
| | | | | | | -10 | NV | -1.30 | -0.0008 | / | Pass |
| | | | | | | 0 | NV | -6.00 | -0.0035 | / | Pass |
| | | | | | | 10 | NV | -5.30 | -0.0031 | / | Pass |
| | | | | | | 20 | NV | -4.50 | -0.0026 | / | Pass |
| | | | | | | 30 | NV | -8.20 | -0.0048 | / | Pass |
| | | | | | | 40 | NV | -4.30 | -0.0025 | / | Pass |
| | | | 50 | NV | -10.00 | -0.0059 | / | Pass | | | |
| CP-OFDM 64 QAM | 1702.5 | Outer_Full | 20 | LV | -5.10 | -0.0030 | / | Pass | | | |
| | | | | HV | -8.40 | -0.0049 | / | Pass | | | |
| | | | | | | -30 | NV | -6.10 | -0.0036 | / | Pass |
| | | | | | | -20 | NV | -6.70 | -0.0039 | / | Pass |
| | | | | | | -10 | NV | -5.40 | -0.0032 | / | Pass |
| | | | | | | 0 | NV | -1.70 | -0.0010 | / | Pass |
| | | | | | | 10 | NV | -5.40 | -0.0032 | / | Pass |
| | | | 20 | NV | -6.80 | -0.0040 | / | Pass | | | |



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| | | | | | | | | |
|-----------------|--------|------------|-----|----|-------|---------|---|------|
| | | | 30 | NV | -8.60 | -0.0051 | / | Pass |
| | | | 40 | NV | -5.40 | -0.0032 | / | Pass |
| | | | 50 | NV | -5.50 | -0.0032 | / | Pass |
| CP-OFDM 256 QAM | 1702.5 | Outer_Full | 20 | LV | -7.10 | -0.0042 | / | Pass |
| | | | | HV | -5.80 | -0.0034 | / | Pass |
| | | | -30 | NV | -6.20 | -0.0036 | / | Pass |
| | | | -20 | NV | -3.50 | -0.0021 | / | Pass |
| | | | -10 | NV | -3.70 | -0.0022 | / | Pass |
| | | | 0 | NV | -5.90 | -0.0035 | / | Pass |
| | | | 10 | NV | -5.20 | -0.0031 | / | Pass |
| | | | 20 | NV | -6.60 | -0.0039 | / | Pass |
| | | | 30 | NV | -5.80 | -0.0034 | / | Pass |
| | | | 40 | NV | -8.30 | -0.0049 | / | Pass |
| | | | 50 | NV | -2.80 | -0.0016 | / | Pass |

2.2 15k_SISO_10MHz

2.2.1 Test Result

| 5G NR n70 SCS=15kHz SISO 10MHz | | | | | | | | |
|--------------------------------|-----------------|---------------|------------|-------|------------------|-----------------------|-------|---------|
| Modulation | Frequency (MHz) | RB Allocation | Temp. (°C) | Volt. | Freq. Error (Hz) | Freq. vs. rated (ppm) | | Verdict |
| | | | | | | Result | Limit | |
| DFT-s-OFDM PI/2 BPSK | 1702.5 | Outer_Full | 20 | LV | -8.40 | -0.0049 | / | Pass |
| | | | | HV | -7.30 | -0.0043 | / | Pass |
| | | | -30 | NV | -7.60 | -0.0045 | / | Pass |
| | | | -20 | NV | -4.80 | -0.0028 | / | Pass |
| | | | -10 | NV | -1.70 | -0.0010 | / | Pass |
| | | | 0 | NV | -2.60 | -0.0015 | / | Pass |
| | | | 10 | NV | -11.60 | -0.0068 | / | Pass |
| | | | 20 | NV | -7.10 | -0.0042 | / | Pass |
| | | | 30 | NV | -8.20 | -0.0048 | / | Pass |
| | | | 40 | NV | -3.30 | -0.0019 | / | Pass |
| | | | 50 | NV | -6.60 | -0.0039 | / | Pass |
| DFT-s-OFDM QPSK | 1702.5 | Outer_Full | 20 | LV | 2.80 | 0.0016 | / | Pass |
| | | | | HV | -1.70 | -0.0010 | / | Pass |
| | | | -30 | NV | -4.10 | -0.0024 | / | Pass |
| | | | -20 | NV | -0.90 | -0.0005 | / | Pass |
| | | | -10 | NV | -1.10 | -0.0006 | / | Pass |
| | | | 0 | NV | -2.30 | -0.0014 | / | Pass |
| | | | 10 | NV | 3.30 | 0.0019 | / | Pass |
| | | | 20 | NV | -5.90 | -0.0035 | / | Pass |
| | | | 30 | NV | 3.00 | 0.0018 | / | Pass |
| | | | 40 | NV | -1.80 | -0.0011 | / | Pass |
| | | | 50 | NV | -2.30 | -0.0014 | / | Pass |
| DFT-s-OFDM 16 QAM | 1702.5 | Outer_Full | 20 | LV | 2.70 | 0.0016 | / | Pass |
| | | | | HV | -2.50 | -0.0015 | / | Pass |



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| | | | | | | | | |
|-------------------|--------------|------------|------------|---------|--------|---------|---------|------|
| | | | -30 | NV | -2.70 | -0.0016 | / | Pass |
| | | | -20 | NV | -3.20 | -0.0019 | / | Pass |
| | | | -10 | NV | -4.40 | -0.0026 | / | Pass |
| | | | 0 | NV | -2.20 | -0.0013 | / | Pass |
| | | | 10 | NV | -3.70 | -0.0022 | / | Pass |
| | | | 20 | NV | -6.50 | -0.0038 | / | Pass |
| | | | 30 | NV | -4.60 | -0.0027 | / | Pass |
| | | | 40 | NV | -5.30 | -0.0031 | / | Pass |
| | | | 50 | NV | -3.40 | -0.0020 | / | Pass |
| DFT-s-OFDM 64 QAM | 1702.5 | Outer_Full | 20 | LV | -2.30 | -0.0014 | / | Pass |
| | | | | HV | -3.60 | -0.0021 | / | Pass |
| | | | -30 | NV | 3.00 | 0.0018 | / | Pass |
| | | | | NV | -2.00 | -0.0012 | / | Pass |
| | | | -10 | NV | -1.60 | -0.0009 | / | Pass |
| | | | | NV | -5.50 | -0.0032 | / | Pass |
| | | | 10 | NV | -5.40 | -0.0032 | / | Pass |
| | | | | NV | -2.60 | -0.0015 | / | Pass |
| | | | 30 | NV | -2.60 | -0.0015 | / | Pass |
| | | | | NV | -2.40 | -0.0014 | / | Pass |
| 50 | NV | 1.20 | 0.0007 | / | Pass | | | |
| | 20 | LV | 2.30 | 0.0014 | / | Pass | | |
| -30 | | NV | -1.10 | -0.0006 | / | Pass | | |
| | -20 | NV | -3.20 | -0.0019 | / | Pass | | |
| -10 | | NV | 4.00 | 0.0023 | / | Pass | | |
| | 0 | NV | -0.90 | -0.0005 | / | Pass | | |
| 10 | | NV | -1.30 | -0.0008 | / | Pass | | |
| | 20 | NV | 3.30 | 0.0019 | / | Pass | | |
| 30 | | NV | -4.80 | -0.0028 | / | Pass | | |
| | 40 | NV | -3.70 | -0.0022 | / | Pass | | |
| 50 | | NV | -2.80 | -0.0016 | / | Pass | | |
| | CP-OFDM QPSK | 1702.5 | Outer_Full | 20 | LV | -6.40 | -0.0038 | / |
| HV | | | | | -7.00 | -0.0041 | / | Pass |
| -30 | | | | NV | -7.40 | -0.0043 | / | Pass |
| | | | | NV | -9.10 | -0.0053 | / | Pass |
| -10 | | | | NV | -12.30 | -0.0072 | / | Pass |
| | | | | NV | -7.80 | -0.0046 | / | Pass |
| 10 | | | | NV | -11.20 | -0.0066 | / | Pass |
| | | | | NV | -11.40 | -0.0067 | / | Pass |
| 30 | | | | NV | -8.50 | -0.0050 | / | Pass |
| | | | | NV | -9.00 | -0.0053 | / | Pass |
| 50 | NV | -8.10 | -0.0048 | / | Pass | | | |
| | 20 | LV | -6.20 | -0.0036 | / | Pass | | |
| -30 | | NV | -8.40 | -0.0049 | / | Pass | | |
| | -20 | NV | -2.20 | -0.0013 | / | Pass | | |
| -10 | | NV | -11.00 | -0.0065 | / | Pass | | |
| | 0 | NV | -9.00 | -0.0053 | / | Pass | | |
| CP-OFDM 16 QAM | | 1702.5 | Outer_Full | 0 | NV | -6.50 | -0.0038 | / |



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|-----------------|--------|------------|-----|----|--------|---------|---|------|
| | | | 10 | NV | -10.30 | -0.0060 | / | Pass |
| | | | 20 | NV | -11.60 | -0.0068 | / | Pass |
| | | | 30 | NV | -8.50 | -0.0050 | / | Pass |
| | | | 40 | NV | -11.20 | -0.0066 | / | Pass |
| | | | 50 | NV | -10.30 | -0.0060 | / | Pass |
| CP-OFDM 64 QAM | 1702.5 | Outer_Full | 20 | LV | -10.70 | -0.0063 | / | Pass |
| | | | | HV | -3.30 | -0.0019 | / | Pass |
| | | | -30 | NV | -3.90 | -0.0023 | / | Pass |
| | | | -20 | NV | -1.50 | -0.0009 | / | Pass |
| | | | -10 | NV | -3.40 | -0.0020 | / | Pass |
| | | | 0 | NV | -4.10 | -0.0024 | / | Pass |
| | | | 10 | NV | -3.10 | -0.0018 | / | Pass |
| | | | 20 | NV | -3.10 | -0.0018 | / | Pass |
| | | | 30 | NV | -2.70 | -0.0016 | / | Pass |
| | | | 40 | NV | 1.70 | 0.0010 | / | Pass |
| | | | 50 | NV | -4.90 | -0.0029 | / | Pass |
| CP-OFDM 256 QAM | 1702.5 | Outer_Full | 20 | LV | -7.00 | -0.0041 | / | Pass |
| | | | | HV | -1.10 | -0.0006 | / | Pass |
| | | | -30 | NV | -9.00 | -0.0053 | / | Pass |
| | | | -20 | NV | -6.70 | -0.0039 | / | Pass |
| | | | -10 | NV | -1.50 | -0.0009 | / | Pass |
| | | | 0 | NV | -9.00 | -0.0053 | / | Pass |
| | | | 10 | NV | -6.50 | -0.0038 | / | Pass |
| | | | 20 | NV | -6.30 | -0.0037 | / | Pass |
| | | | 30 | NV | -1.30 | -0.0008 | / | Pass |
| | | | 40 | NV | -7.10 | -0.0042 | / | Pass |
| | | | 50 | NV | -9.50 | -0.0056 | / | Pass |

2.3 15k_SISO_15MHz

2.3.1 Test Result

| 5G NR n70 SCS=15kHz SISO 15MHz | | | | | | | | |
|--------------------------------|-----------------|---------------|------------|-------|------------------|-----------------------|-------|---------|
| Modulation | Frequency (MHz) | RB Allocation | Temp. (°C) | Volt. | Freq. Error (Hz) | Freq. vs. rated (ppm) | | Verdict |
| | | | | | | Result | Limit | |
| DFT-s-OFDM PI/2 BPSK | 1702.5 | Outer_Full | 20 | LV | -7.90 | -0.0046 | / | Pass |
| | | | | HV | -1.00 | -0.0006 | / | Pass |
| | | | -30 | NV | 3.10 | 0.0018 | / | Pass |
| | | | -20 | NV | -1.90 | -0.0011 | / | Pass |
| | | | -10 | NV | -2.50 | -0.0015 | / | Pass |
| | | | 0 | NV | -2.40 | -0.0014 | / | Pass |
| | | | 10 | NV | -2.00 | -0.0012 | / | Pass |
| | | | 20 | NV | 1.90 | 0.0011 | / | Pass |
| | | | 30 | NV | -6.40 | -0.0038 | / | Pass |
| | | | 40 | NV | 1.40 | 0.0008 | / | Pass |
| | | | 50 | NV | -4.60 | -0.0027 | / | Pass |



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|--------------------|--------|------------|---------|----|--------|---------|---|------|
| DFT-s-OFDM QPSK | 1702.5 | Outer_Full | 20 | LV | 0.90 | 0.0005 | / | Pass |
| | | | | HV | -1.90 | -0.0011 | / | Pass |
| | | | -30 | NV | 2.40 | 0.0014 | / | Pass |
| | | | | NV | 2.10 | 0.0012 | / | Pass |
| | | | -10 | NV | -5.40 | -0.0032 | / | Pass |
| | | | | NV | -6.40 | -0.0038 | / | Pass |
| | | | 10 | NV | -3.70 | -0.0022 | / | Pass |
| | | | | NV | -4.10 | -0.0024 | / | Pass |
| | | | 30 | NV | -3.30 | -0.0019 | / | Pass |
| | | | | NV | -4.50 | -0.0026 | / | Pass |
| 50 | NV | -4.00 | -0.0023 | / | Pass | | | |
| | NV | -4.00 | -0.0023 | / | Pass | | | |
| DFT-s-OFDM 16 QAM | 1702.5 | Outer_Full | 20 | LV | -1.90 | -0.0011 | / | Pass |
| | | | | HV | -4.50 | -0.0026 | / | Pass |
| | | | -30 | NV | -3.20 | -0.0019 | / | Pass |
| | | | | NV | 1.80 | 0.0011 | / | Pass |
| | | | -10 | NV | -3.70 | -0.0022 | / | Pass |
| | | | | NV | -1.60 | -0.0009 | / | Pass |
| | | | 10 | NV | 1.90 | 0.0011 | / | Pass |
| | | | | NV | -2.60 | -0.0015 | / | Pass |
| | | | 30 | NV | -2.30 | -0.0014 | / | Pass |
| | | | | NV | 0.80 | 0.0005 | / | Pass |
| 50 | NV | -3.10 | -0.0018 | / | Pass | | | |
| | NV | -3.10 | -0.0018 | / | Pass | | | |
| DFT-s-OFDM 64 QAM | 1702.5 | Outer_Full | 20 | LV | 1.20 | 0.0007 | / | Pass |
| | | | | HV | -0.70 | -0.0004 | / | Pass |
| | | | -30 | NV | -7.50 | -0.0044 | / | Pass |
| | | | | NV | -1.30 | -0.0008 | / | Pass |
| | | | -10 | NV | -4.30 | -0.0025 | / | Pass |
| | | | | NV | -6.50 | -0.0038 | / | Pass |
| | | | 10 | NV | 2.80 | 0.0016 | / | Pass |
| | | | | NV | -3.90 | -0.0023 | / | Pass |
| | | | 30 | NV | -4.90 | -0.0029 | / | Pass |
| | | | | NV | -4.40 | -0.0026 | / | Pass |
| 50 | NV | -8.70 | -0.0051 | / | Pass | | | |
| | NV | -8.70 | -0.0051 | / | Pass | | | |
| DFT-s-OFDM 256 QAM | 1702.5 | Outer_Full | 20 | LV | -2.10 | -0.0012 | / | Pass |
| | | | | HV | -0.70 | -0.0004 | / | Pass |
| | | | -30 | NV | -1.70 | -0.0010 | / | Pass |
| | | | | NV | -4.70 | -0.0028 | / | Pass |
| | | | -10 | NV | 1.80 | 0.0011 | / | Pass |
| | | | | NV | 1.20 | 0.0007 | / | Pass |
| | | | 10 | NV | -4.00 | -0.0023 | / | Pass |
| | | | | NV | -4.50 | -0.0026 | / | Pass |
| | | | 30 | NV | -4.50 | -0.0026 | / | Pass |
| | | | | NV | -2.90 | -0.0017 | / | Pass |
| 50 | NV | -2.10 | -0.0012 | / | Pass | | | |
| | NV | -2.10 | -0.0012 | / | Pass | | | |
| CP-OFDM QPSK | 1702.5 | Outer_Full | 20 | LV | -11.90 | -0.0070 | / | Pass |
| | | | | HV | -7.80 | -0.0046 | / | Pass |
| | | | -30 | NV | -8.70 | -0.0051 | / | Pass |
| | | | | NV | -6.00 | -0.0035 | / | Pass |



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| | | | | | | | | | | | |
|-----------------|--------|------------|-----|----|-------|---------|----|-------|---------|---|------|
| | | | -10 | NV | -9.50 | -0.0056 | / | Pass | | | |
| | | | 0 | NV | -8.10 | -0.0048 | / | Pass | | | |
| | | | 10 | NV | -6.40 | -0.0038 | / | Pass | | | |
| | | | 20 | NV | -7.40 | -0.0043 | / | Pass | | | |
| | | | 30 | NV | -7.40 | -0.0043 | / | Pass | | | |
| | | | 40 | NV | -4.50 | -0.0026 | / | Pass | | | |
| | | | 50 | NV | -7.30 | -0.0043 | / | Pass | | | |
| CP-OFDM 16 QAM | 1702.5 | Outer_Full | 20 | LV | -4.20 | -0.0025 | / | Pass | | | |
| | | | | HV | -4.90 | -0.0029 | / | Pass | | | |
| | | | | | | -30 | NV | -6.30 | -0.0037 | / | Pass |
| | | | | | | -20 | NV | -6.80 | -0.0040 | / | Pass |
| | | | | | | -10 | NV | -6.80 | -0.0040 | / | Pass |
| | | | | | | 0 | NV | -7.10 | -0.0042 | / | Pass |
| | | | | | | 10 | NV | -7.40 | -0.0043 | / | Pass |
| | | | | | | 20 | NV | -5.90 | -0.0035 | / | Pass |
| | | | | | | 30 | NV | -4.40 | -0.0026 | / | Pass |
| | | | | | | 40 | NV | -6.90 | -0.0041 | / | Pass |
| | | | 50 | NV | -8.50 | -0.0050 | / | Pass | | | |
| CP-OFDM 64 QAM | 1702.5 | Outer_Full | 20 | LV | -4.00 | -0.0023 | / | Pass | | | |
| | | | | HV | -7.80 | -0.0046 | / | Pass | | | |
| | | | | | | -30 | NV | -7.20 | -0.0042 | / | Pass |
| | | | | | | -20 | NV | -5.60 | -0.0033 | / | Pass |
| | | | | | | -10 | NV | -4.80 | -0.0028 | / | Pass |
| | | | | | | 0 | NV | -4.00 | -0.0023 | / | Pass |
| | | | | | | 10 | NV | -2.30 | -0.0014 | / | Pass |
| | | | | | | 20 | NV | -5.10 | -0.0030 | / | Pass |
| | | | | | | 30 | NV | -5.80 | -0.0034 | / | Pass |
| | | | | | | 40 | NV | -7.30 | -0.0043 | / | Pass |
| | | | 50 | NV | -6.30 | -0.0037 | / | Pass | | | |
| CP-OFDM 256 QAM | 1702.5 | Outer_Full | 20 | LV | -3.20 | -0.0019 | / | Pass | | | |
| | | | | HV | -7.60 | -0.0045 | / | Pass | | | |
| | | | | | | -30 | NV | -7.20 | -0.0042 | / | Pass |
| | | | | | | -20 | NV | -3.50 | -0.0021 | / | Pass |
| | | | | | | -10 | NV | -8.40 | -0.0049 | / | Pass |
| | | | | | | 0 | NV | -7.50 | -0.0044 | / | Pass |
| | | | | | | 10 | NV | -5.10 | -0.0030 | / | Pass |
| | | | | | | 20 | NV | -5.40 | -0.0032 | / | Pass |
| | | | | | | 30 | NV | -3.30 | -0.0019 | / | Pass |
| | | | | | | 40 | NV | -4.20 | -0.0025 | / | Pass |
| | | | 50 | NV | -5.20 | -0.0031 | / | Pass | | | |



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3. 99% & 26dB Bandwidth

3.1 15k_SISO_5MHz_NTNV

3.1.1 Test Result

| 5G NR n70 SCS=15kHz SISO 5MHz NTNv | | | | | | |
|------------------------------------|-----------------|---------------|---------------------|----------------------|-------------|---------|
| Modulation | Frequency (MHz) | RB Allocation | 99% Bandwidth (MHz) | 26dB Bandwidth (MHz) | Limit (MHz) | Verdict |
| DFT-s-OFDM PI/2 BPSK | 1697.5 | Outer_Full | 4.54 | 5.01 | / | Pass |
| | 1702.5 | Outer_Full | 4.53 | 5.08 | / | Pass |
| | 1707.5 | Outer_Full | 4.54 | 5.07 | / | Pass |
| DFT-s-OFDM QPSK | 1697.5 | Outer_Full | 4.53 | 5.04 | / | Pass |
| | 1702.5 | Outer_Full | 4.52 | 5.05 | / | Pass |
| | 1707.5 | Outer_Full | 4.53 | 5.04 | / | Pass |
| DFT-s-OFDM 16 QAM | 1697.5 | Outer_Full | 4.54 | 5.07 | / | Pass |
| | 1702.5 | Outer_Full | 4.55 | 5.06 | / | Pass |
| | 1707.5 | Outer_Full | 4.56 | 5.05 | / | Pass |
| DFT-s-OFDM 64 QAM | 1697.5 | Outer_Full | 4.54 | 5.07 | / | Pass |
| | 1702.5 | Outer_Full | 4.52 | 5.04 | / | Pass |
| | 1707.5 | Outer_Full | 4.52 | 5.07 | / | Pass |
| DFT-s-OFDM 256 QAM | 1697.5 | Outer_Full | 4.53 | 5.09 | / | Pass |
| | 1702.5 | Outer_Full | 4.52 | 5.06 | / | Pass |
| | 1707.5 | Outer_Full | 4.51 | 5.02 | / | Pass |
| CP-OFDM QPSK | 1697.5 | Outer_Full | 4.52 | 5.07 | / | Pass |
| | 1702.5 | Outer_Full | 4.52 | 5.06 | / | Pass |
| | 1707.5 | Outer_Full | 4.53 | 5.10 | / | Pass |
| CP-OFDM 16 QAM | 1697.5 | Outer_Full | 4.58 | 5.12 | / | Pass |
| | 1702.5 | Outer_Full | 4.56 | 5.14 | / | Pass |
| | 1707.5 | Outer_Full | 4.54 | 5.09 | / | Pass |
| CP-OFDM 64 QAM | 1697.5 | Outer_Full | 4.53 | 5.07 | / | Pass |
| | 1702.5 | Outer_Full | 4.54 | 5.10 | / | Pass |
| | 1707.5 | Outer_Full | 4.54 | 5.07 | / | Pass |
| CP-OFDM 256 QAM | 1697.5 | Outer_Full | 4.53 | 5.10 | / | Pass |
| | 1702.5 | Outer_Full | 4.53 | 5.12 | / | Pass |
| | 1707.5 | Outer_Full | 4.53 | 5.13 | / | Pass |



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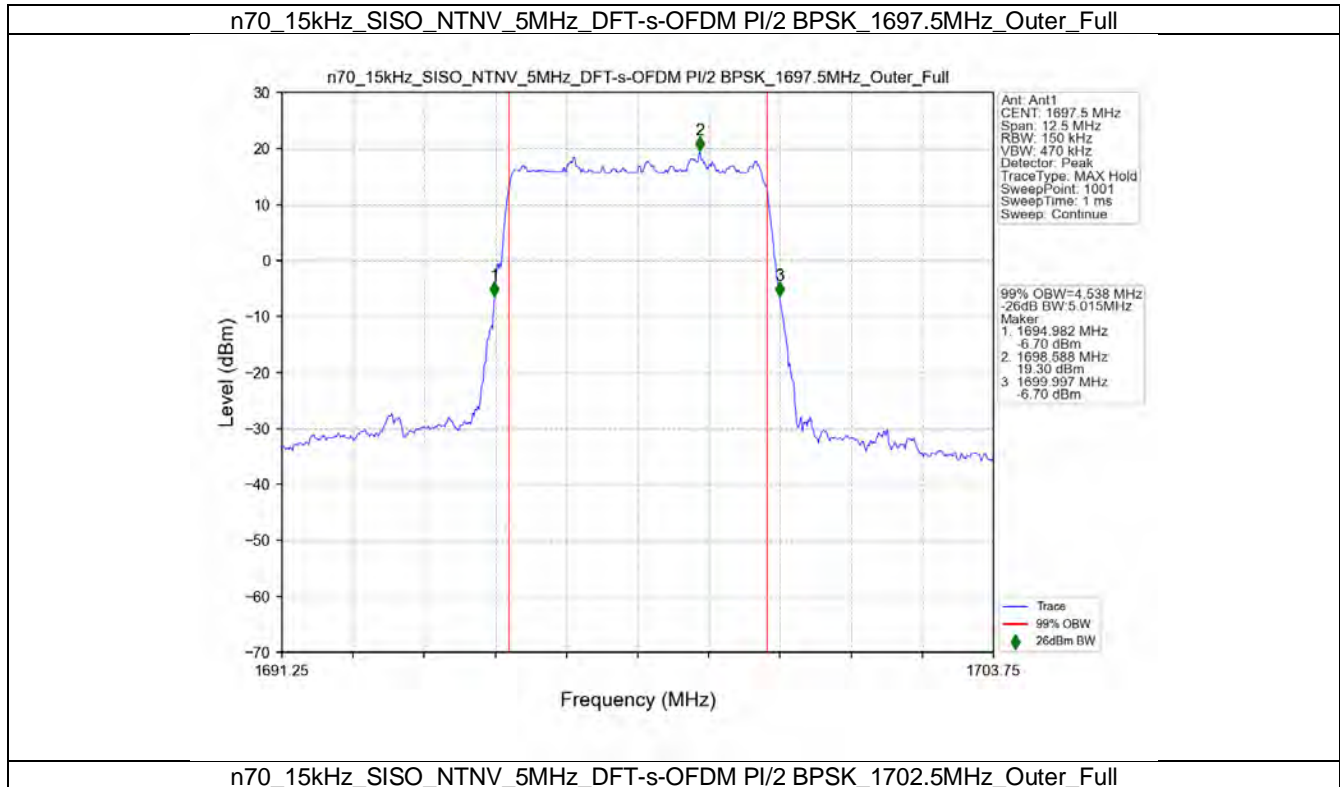
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3.1.2 Test Graph



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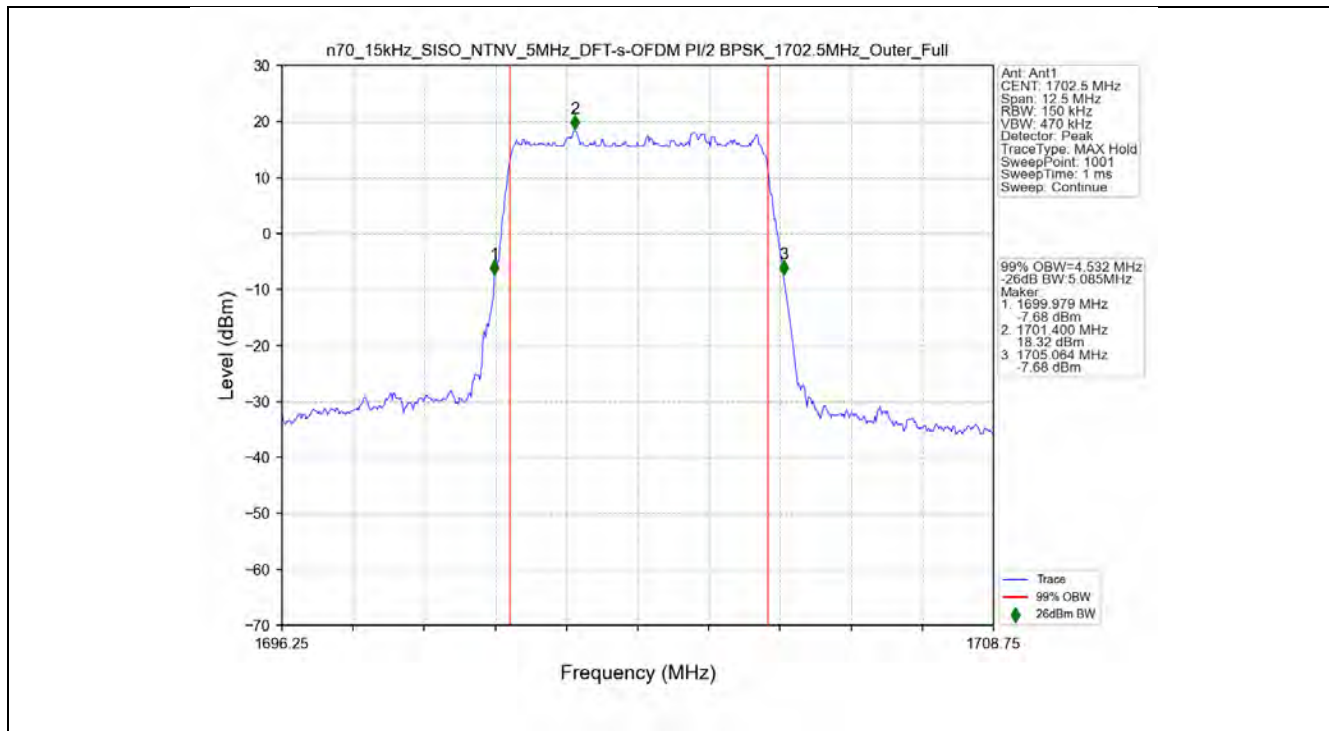
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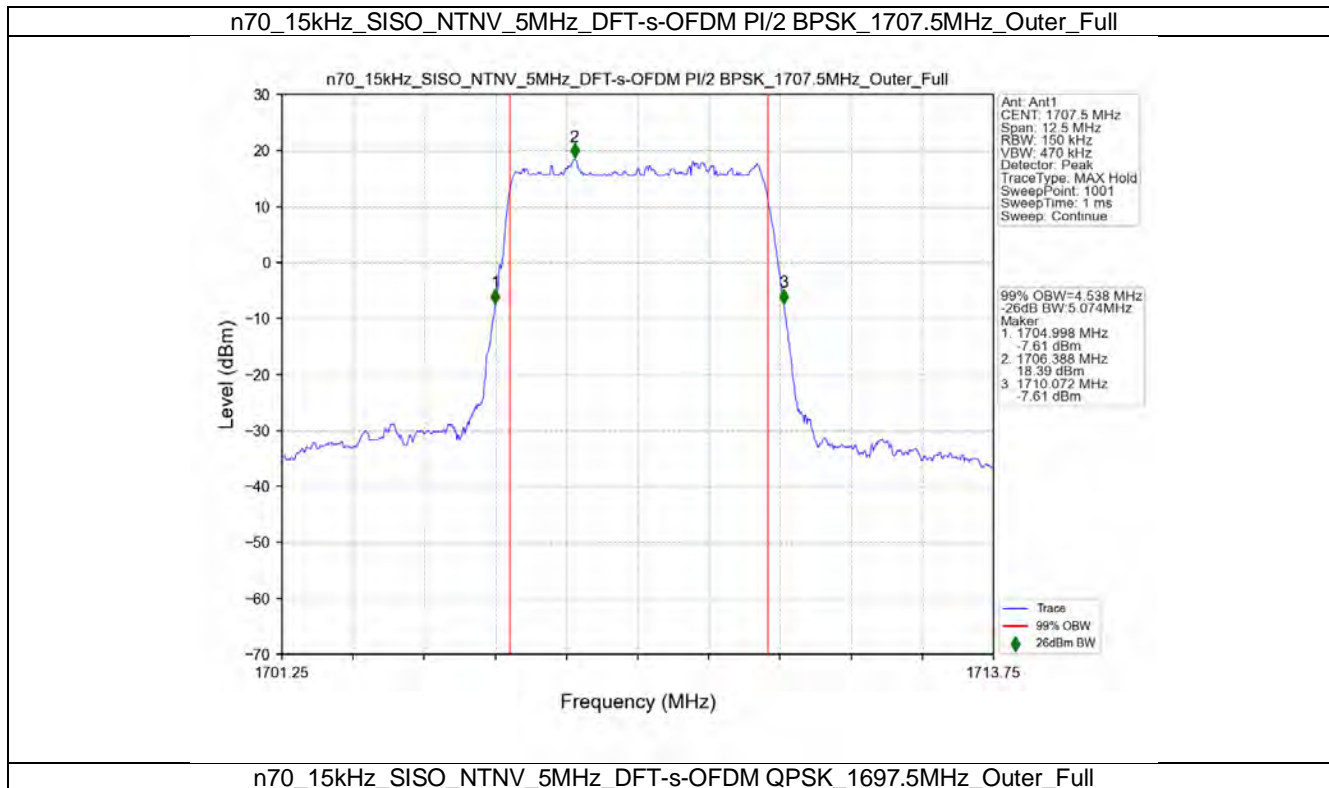
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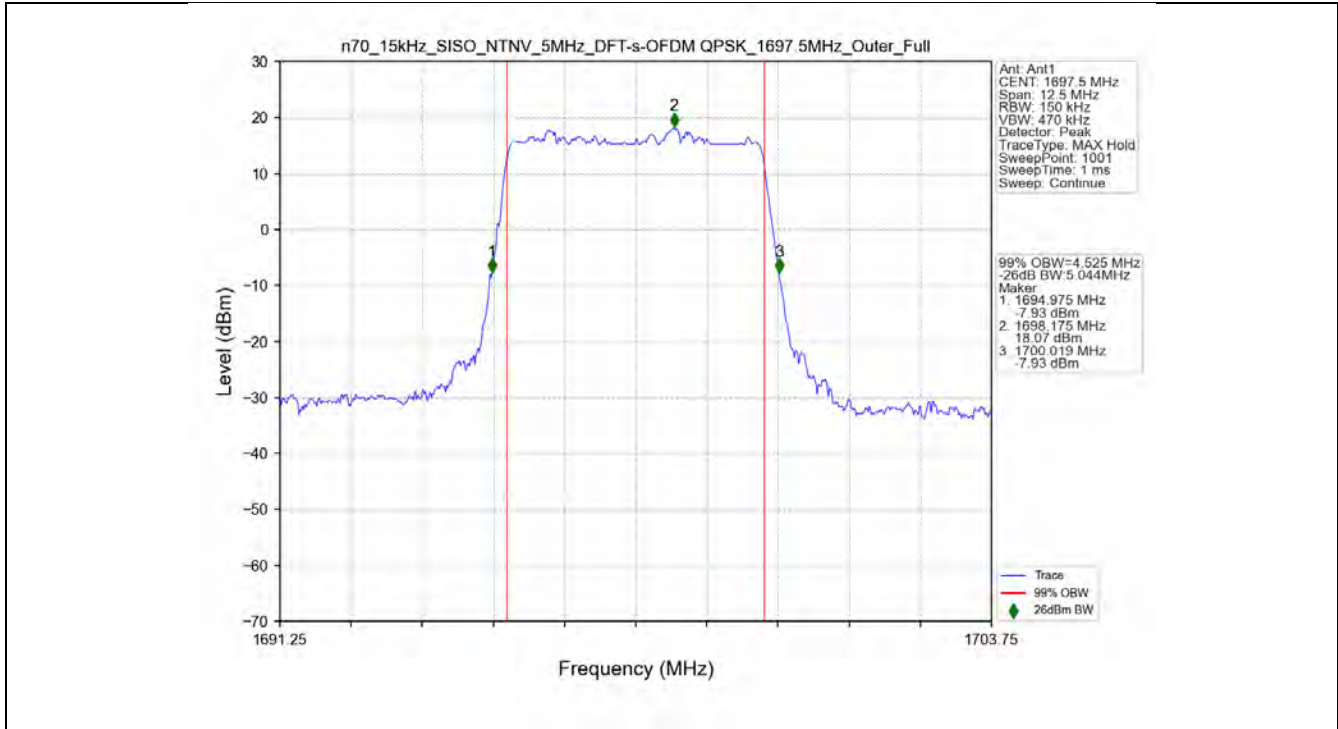


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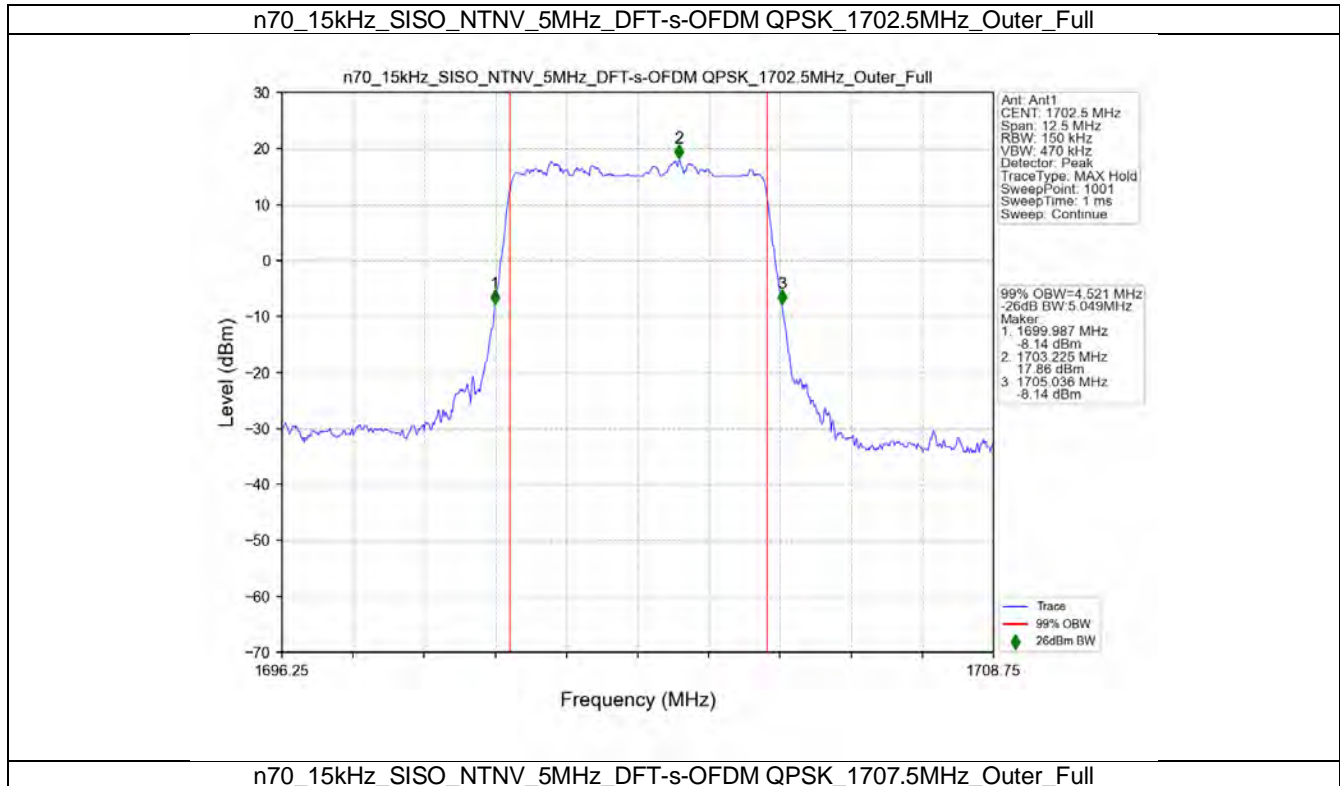


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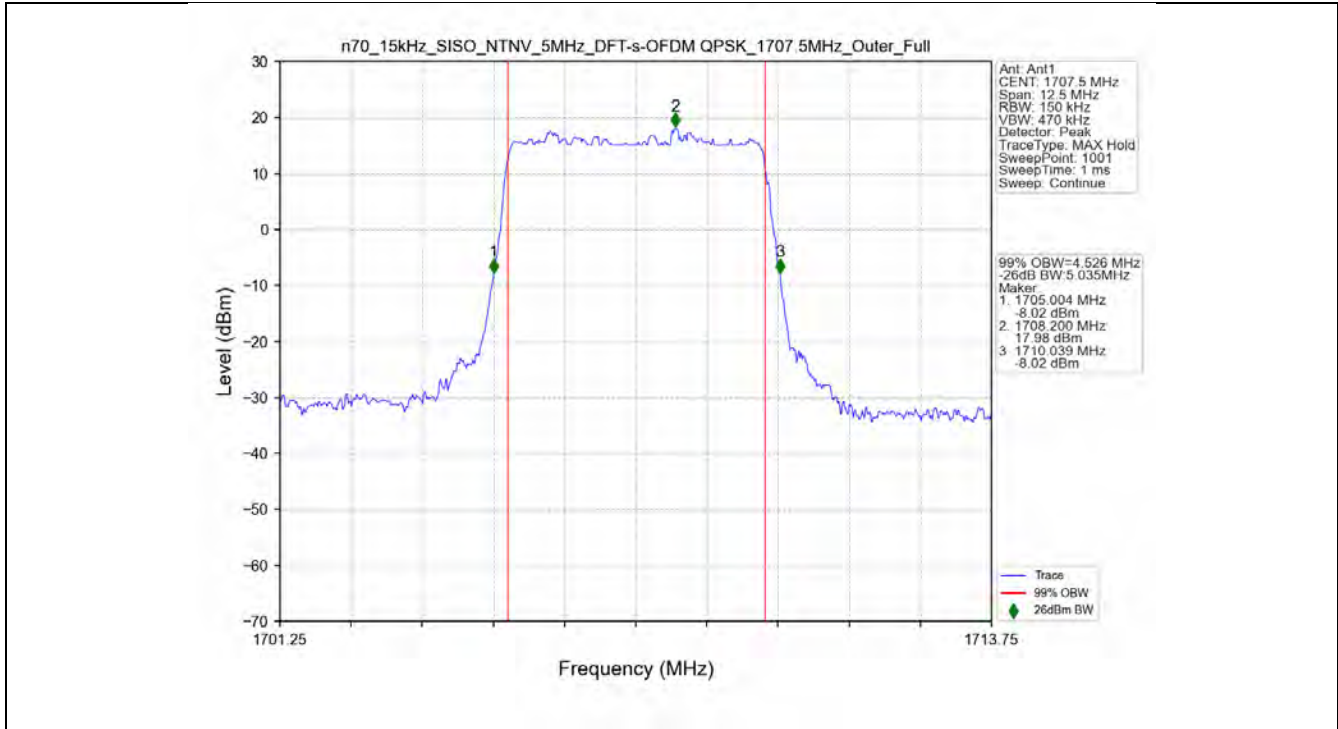


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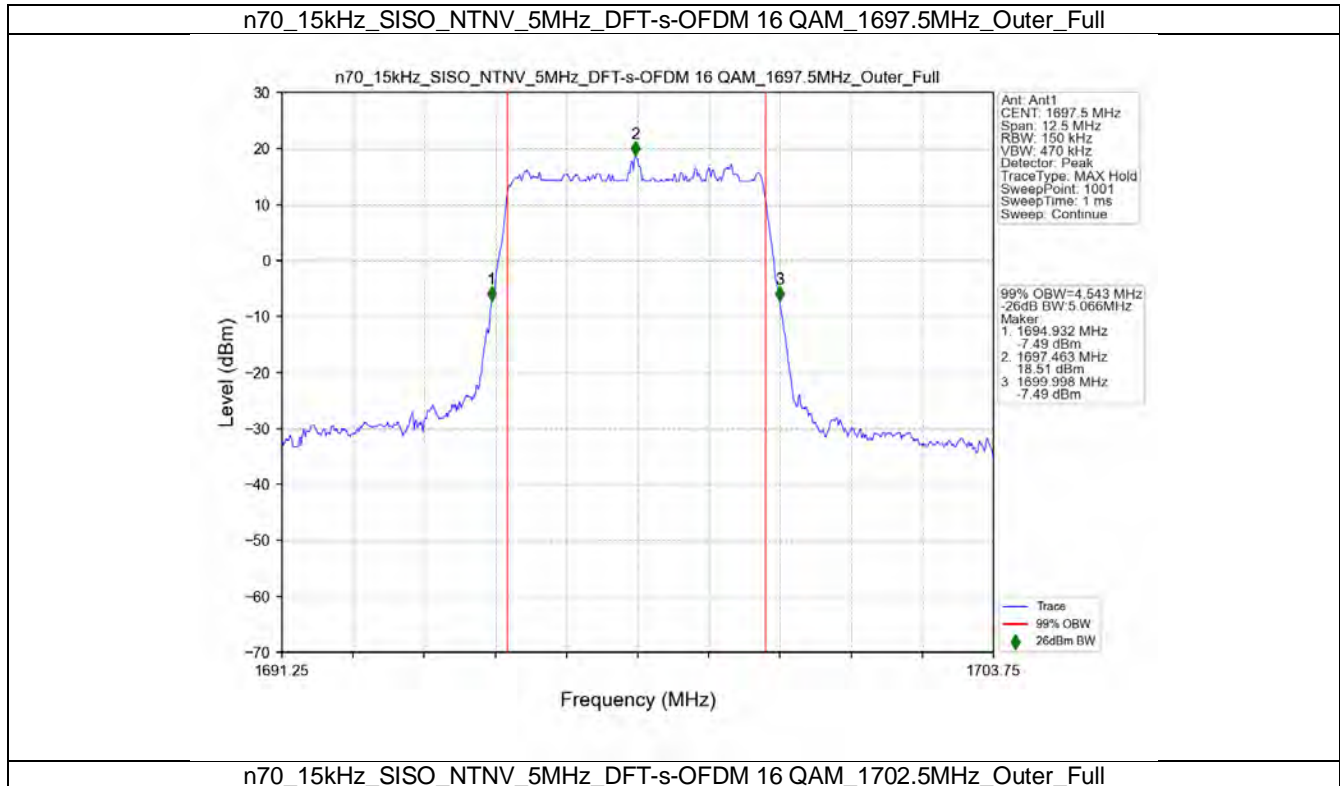


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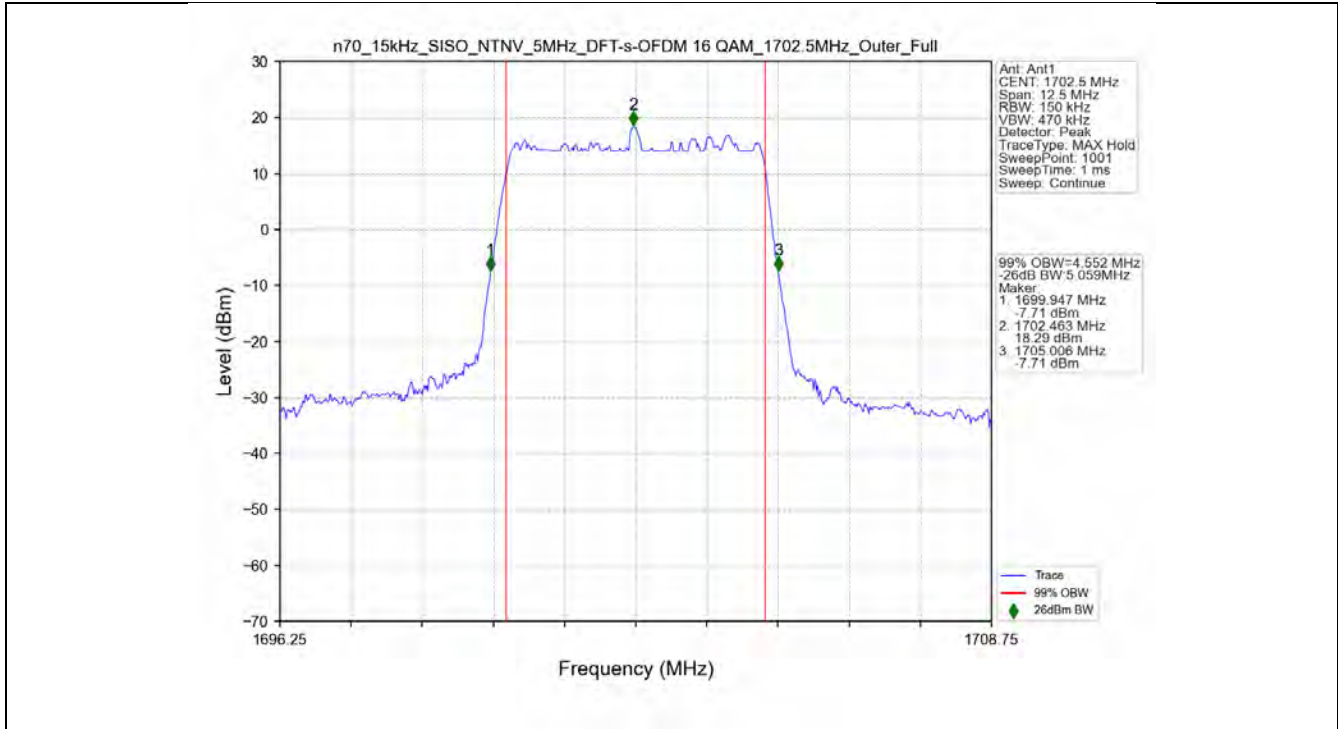


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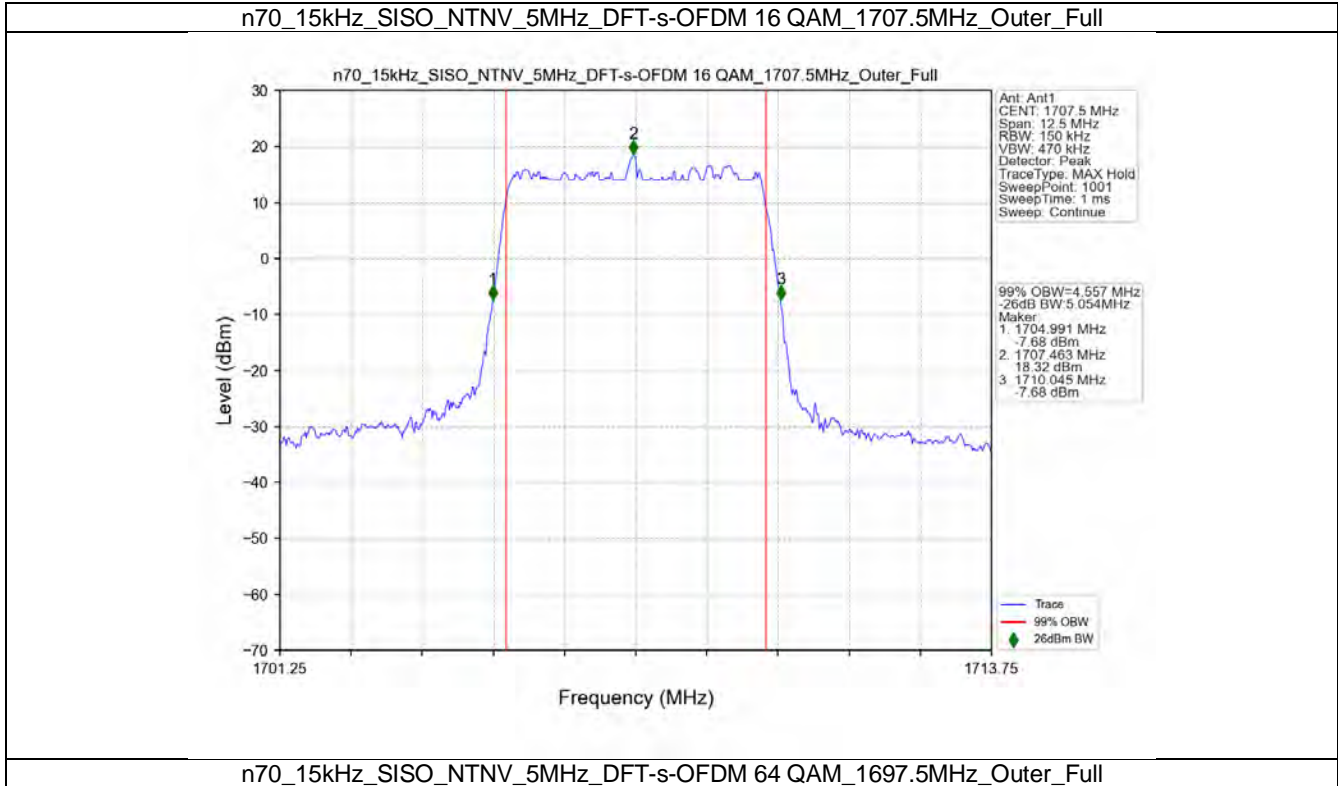


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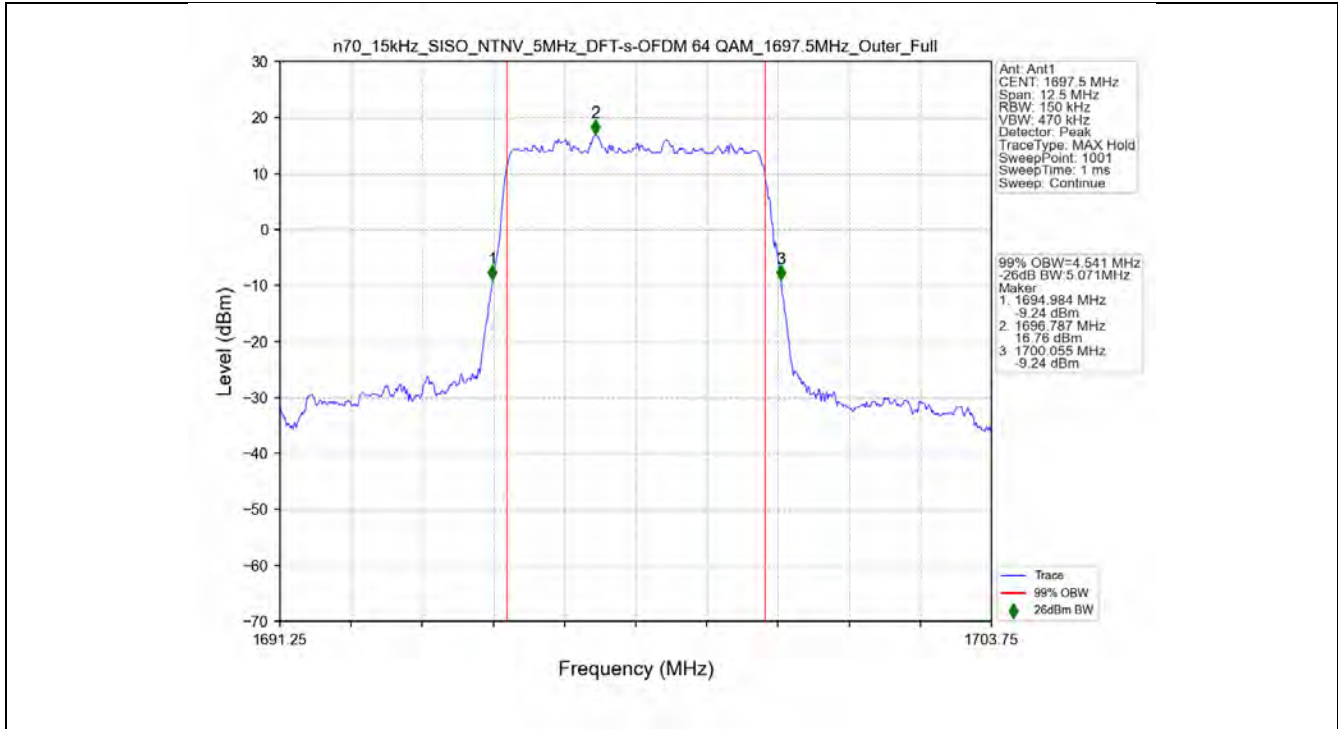


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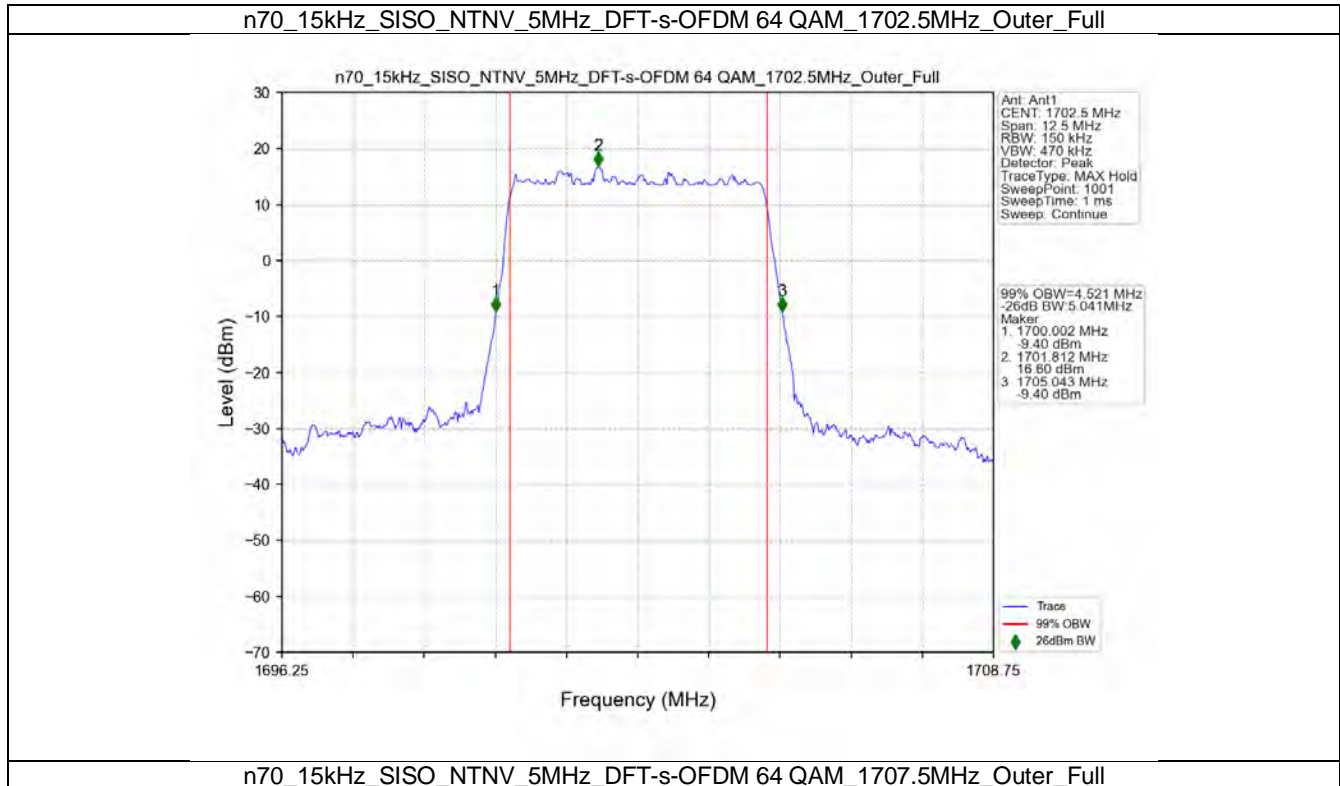


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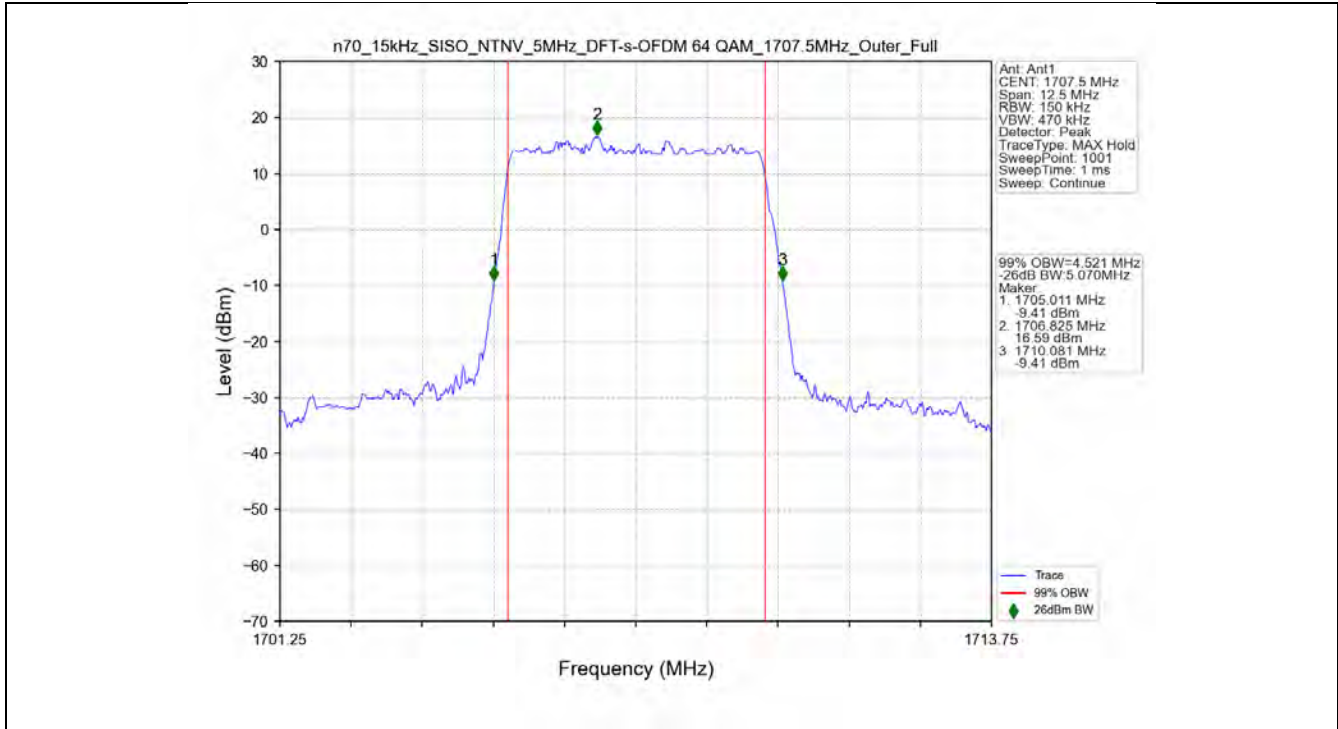


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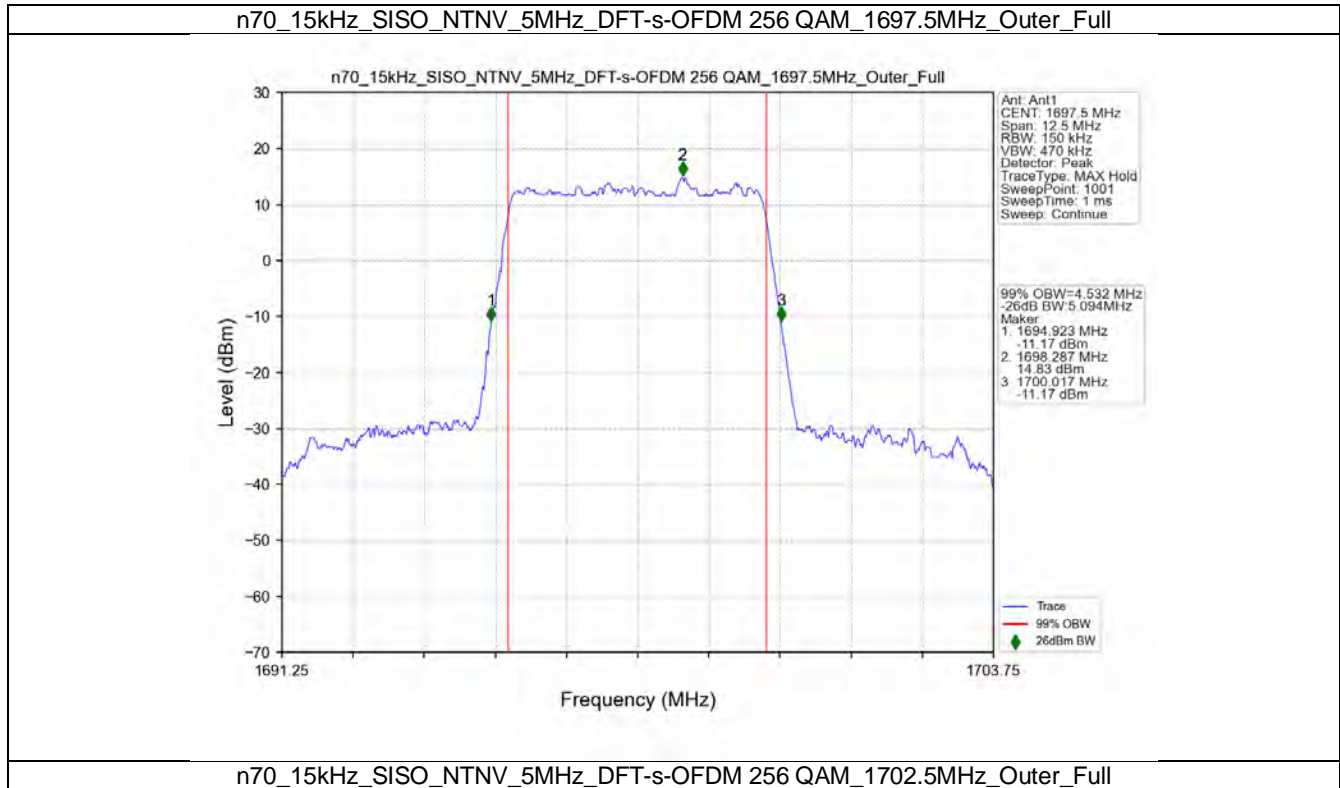


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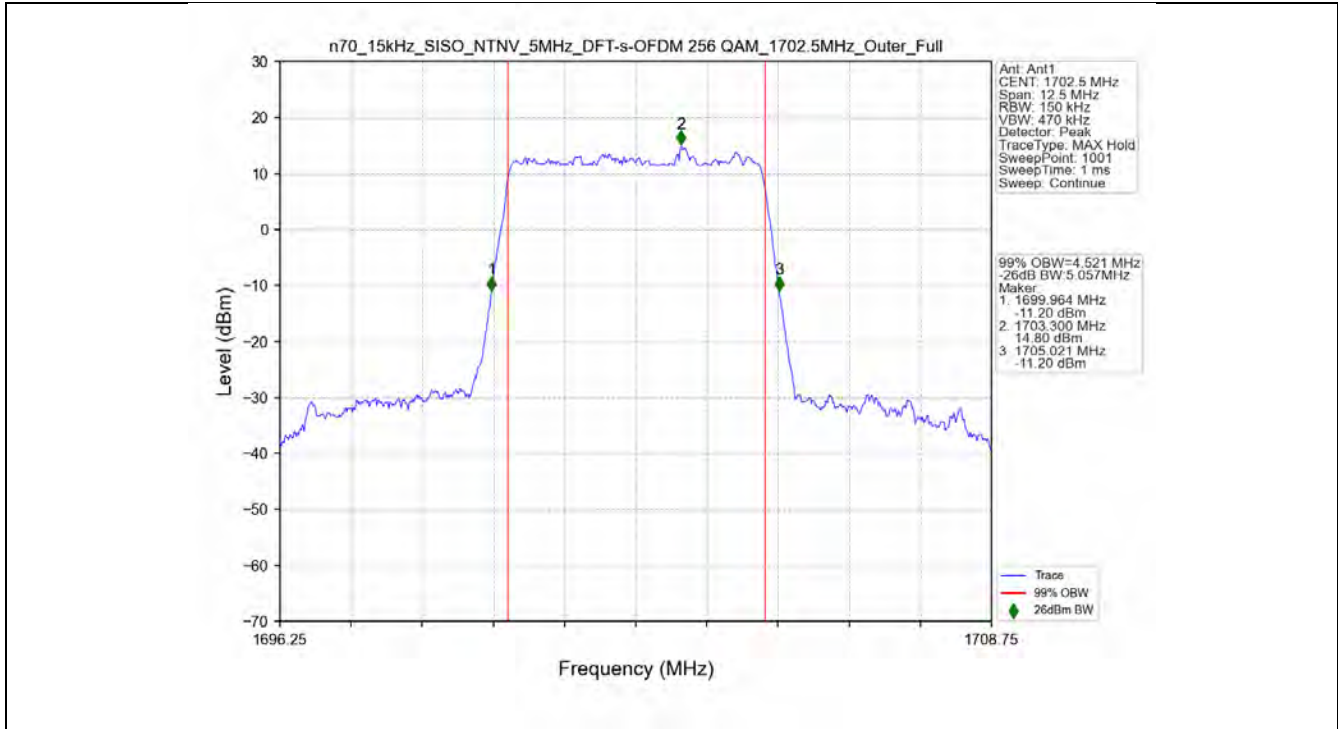


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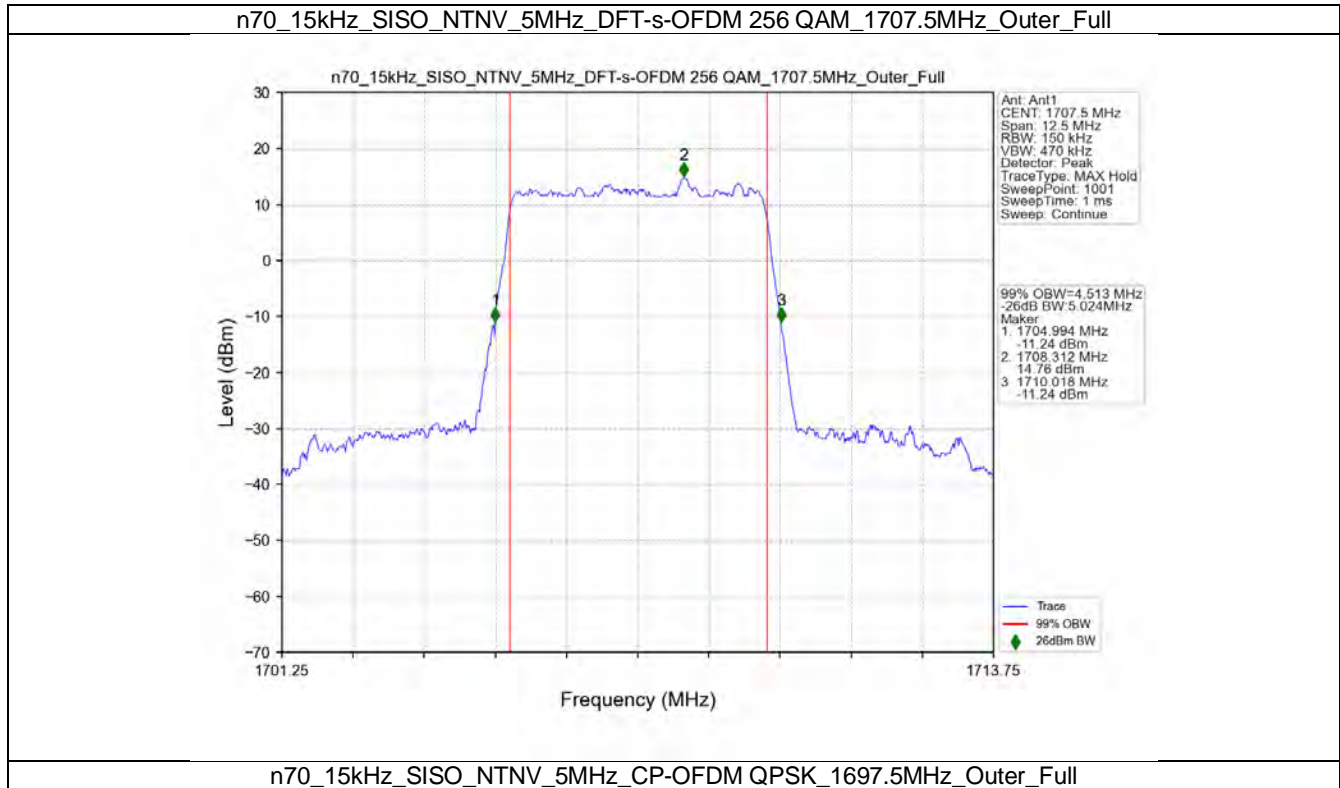


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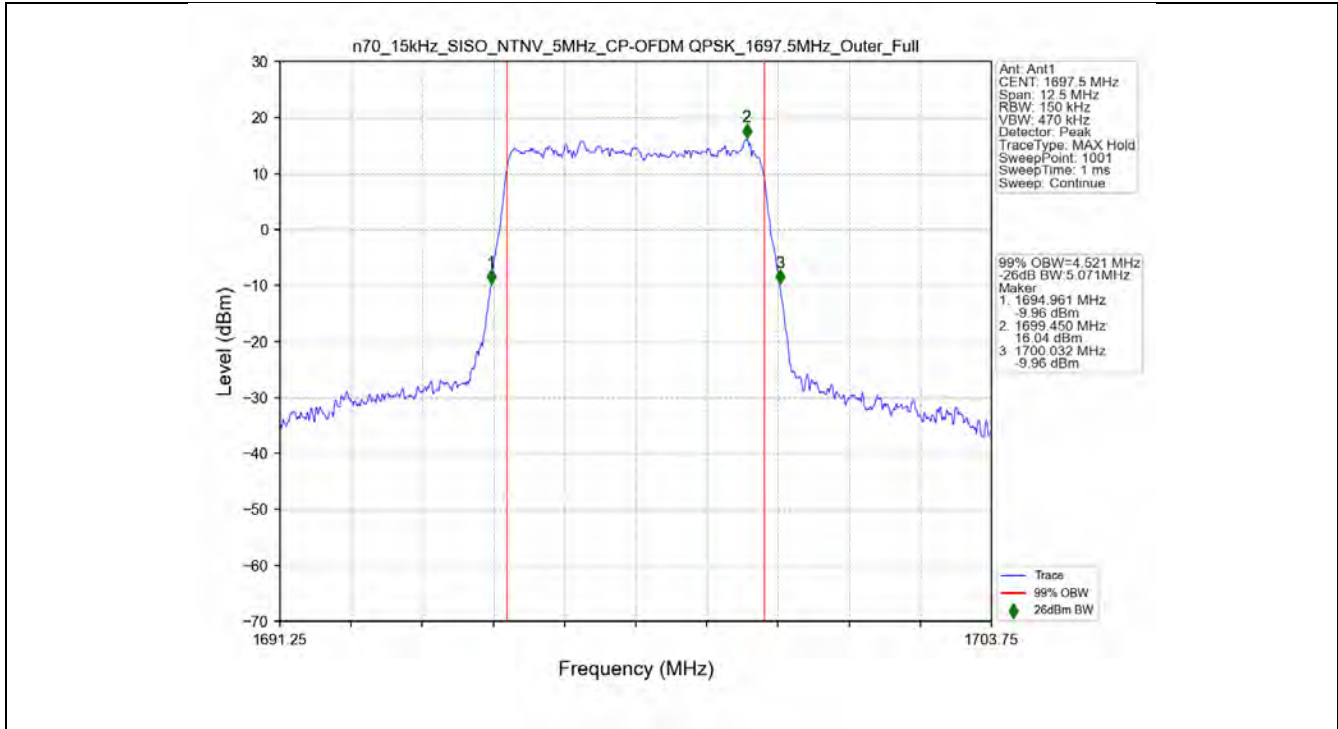


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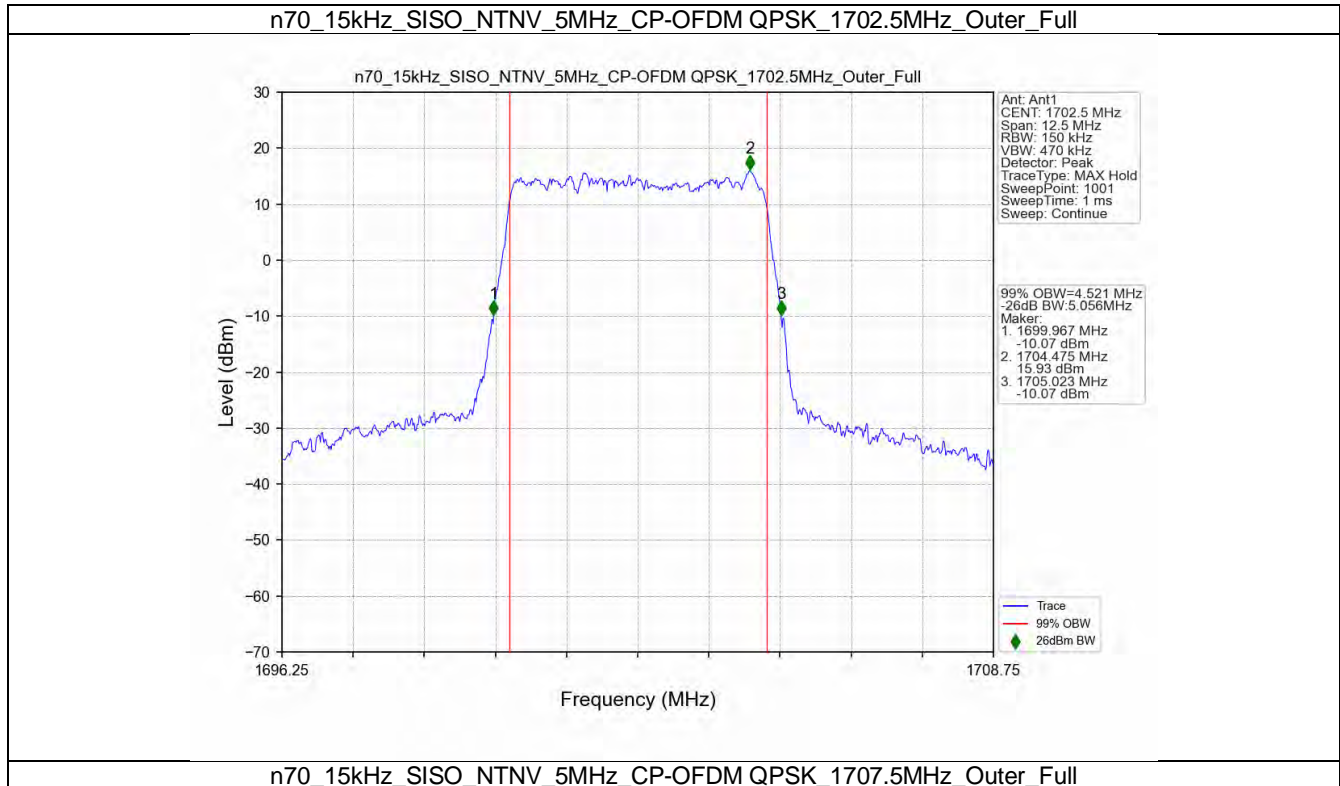


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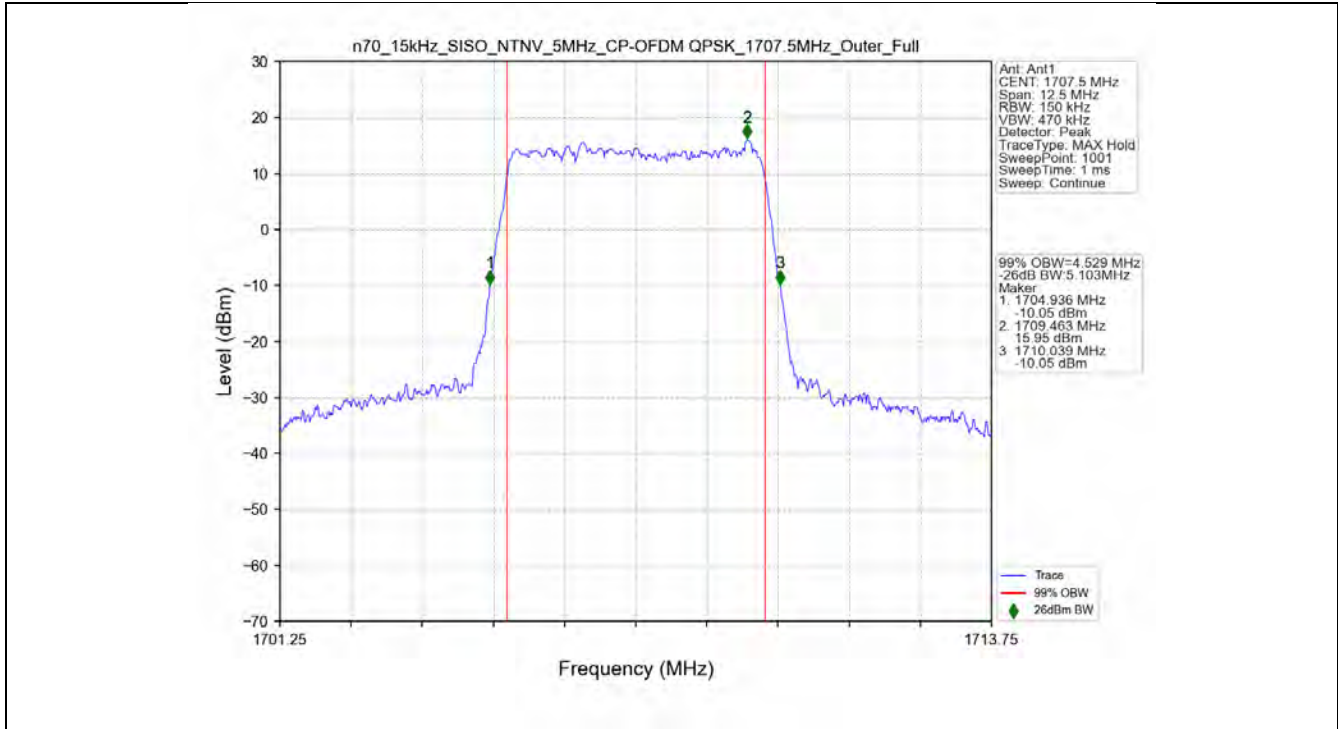


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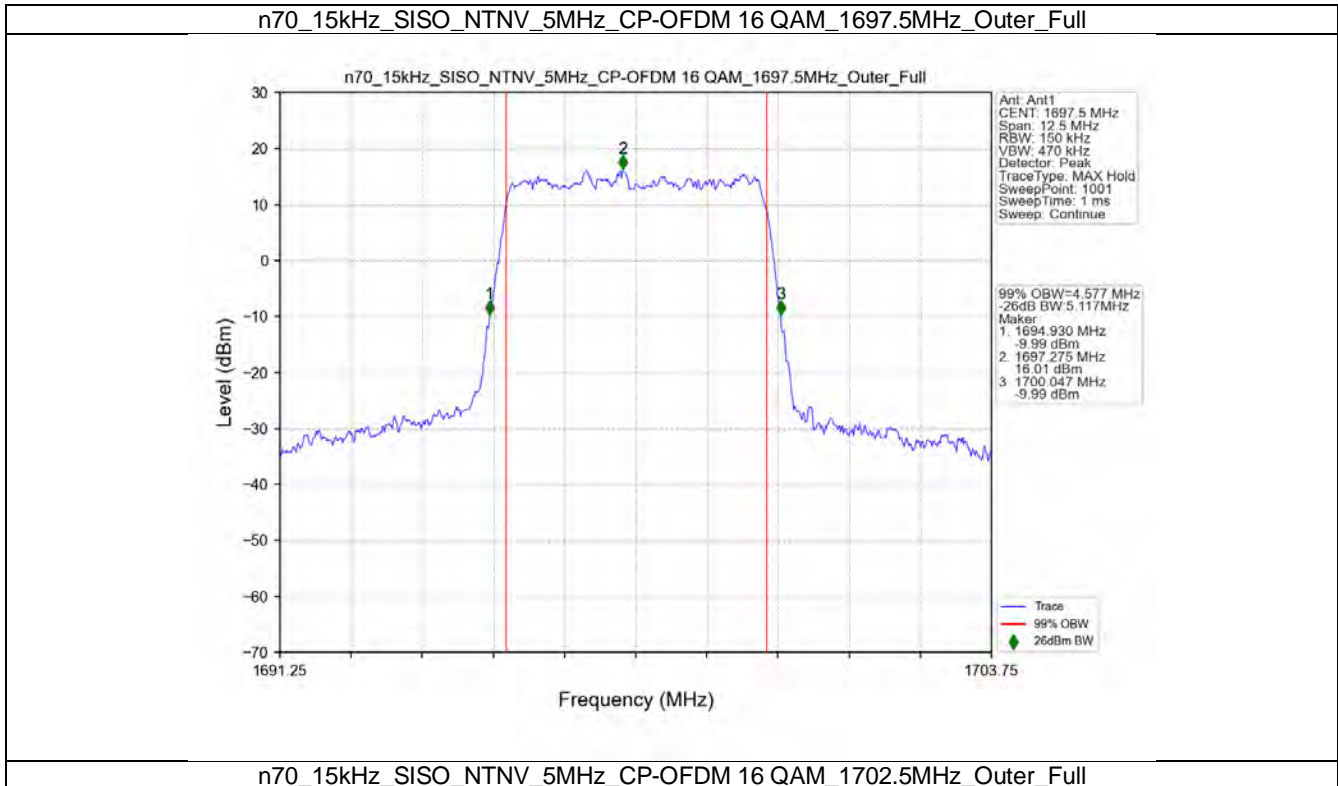


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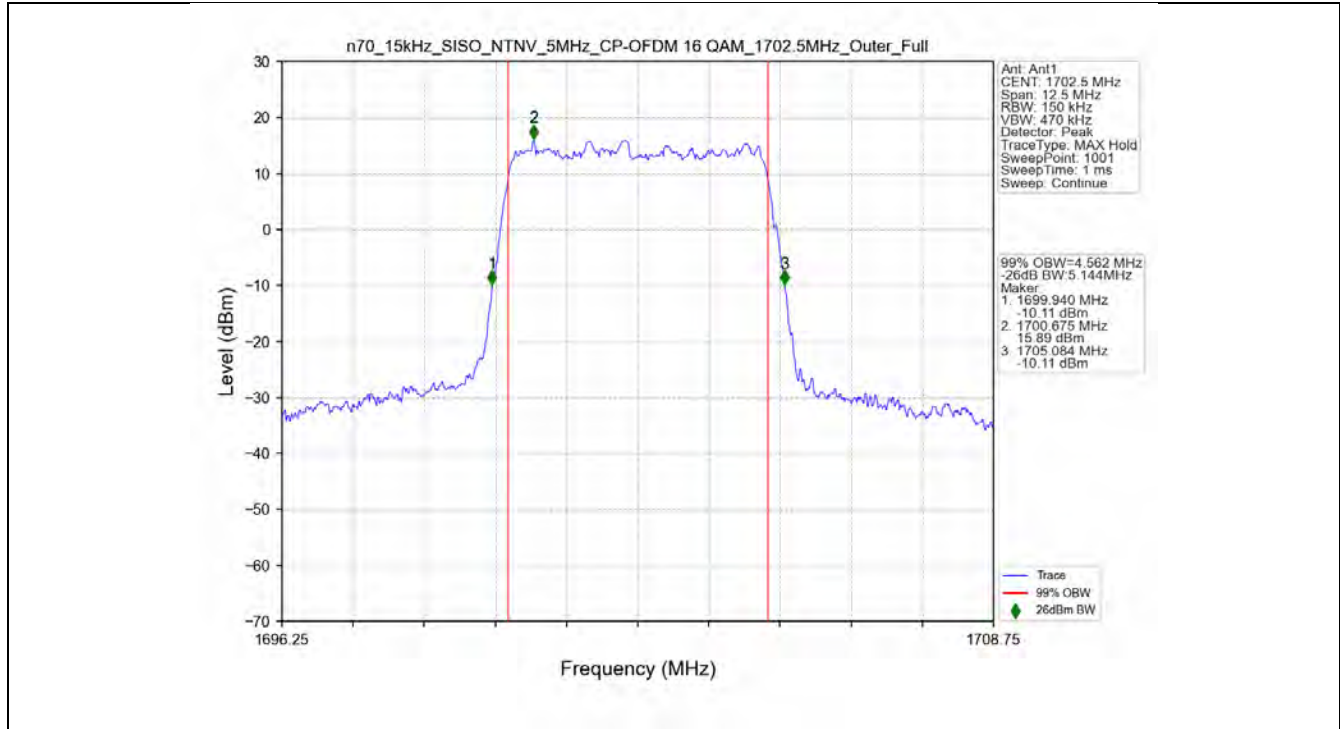


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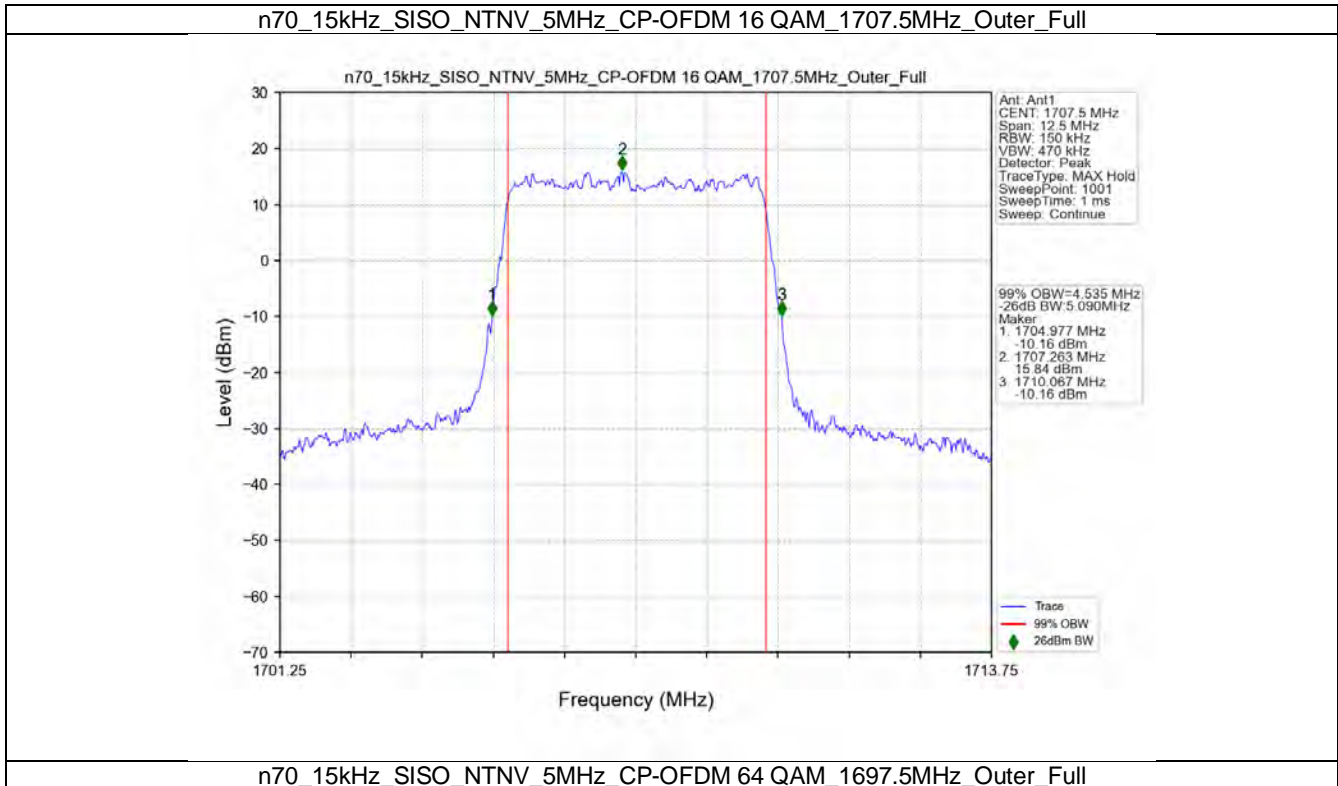


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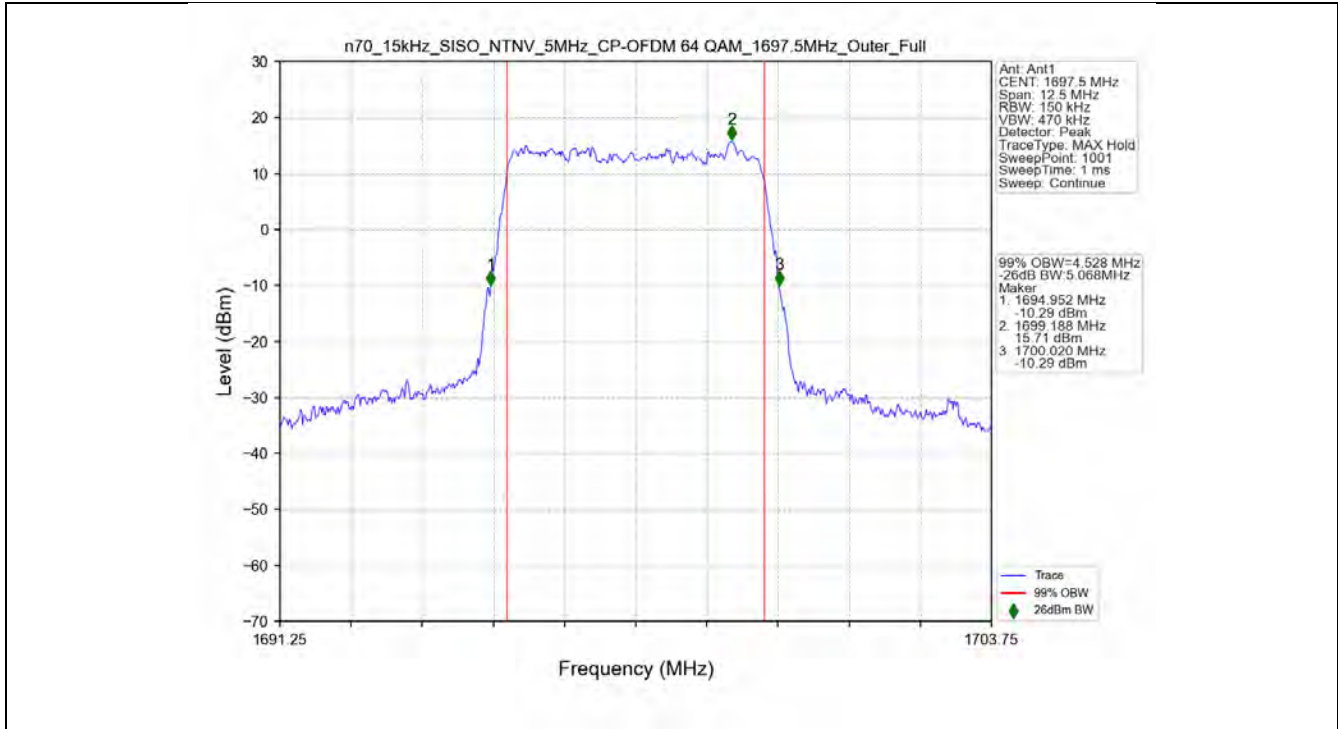


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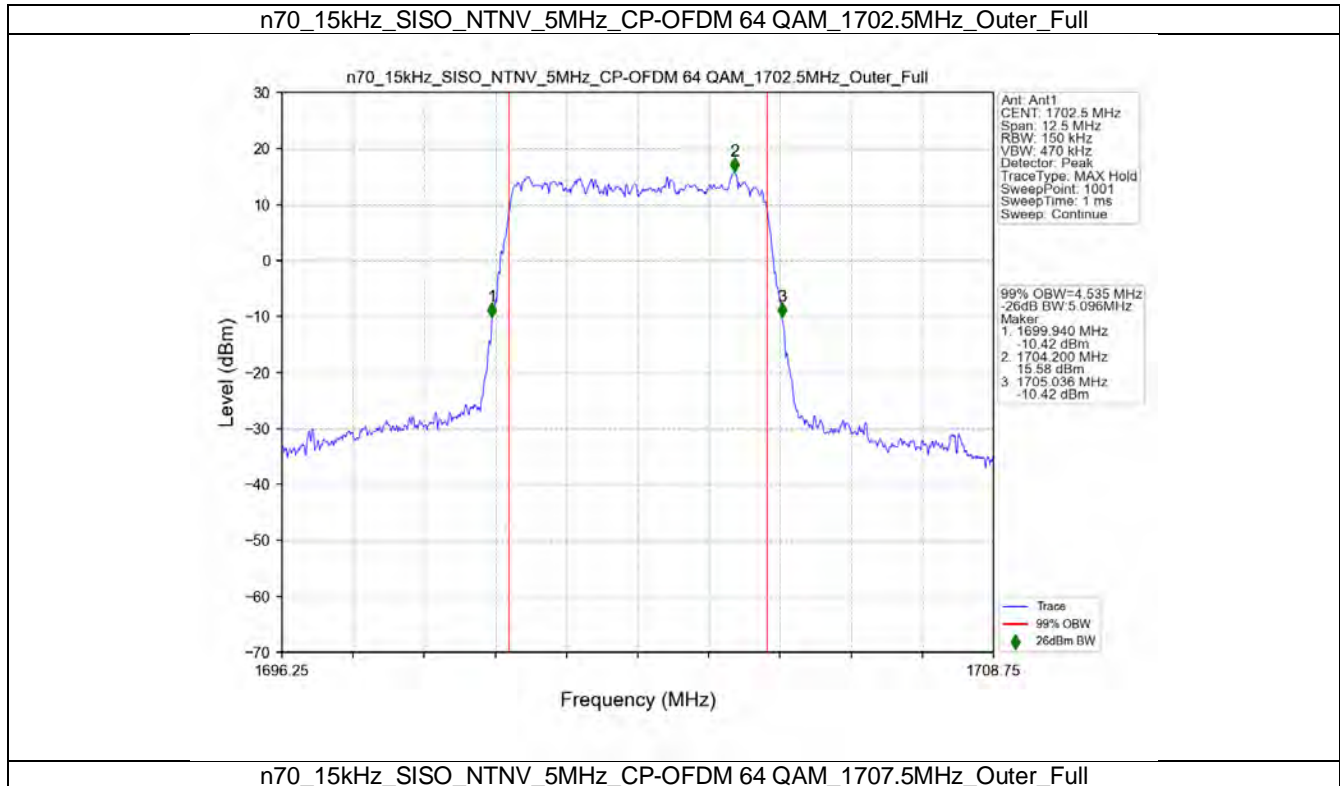


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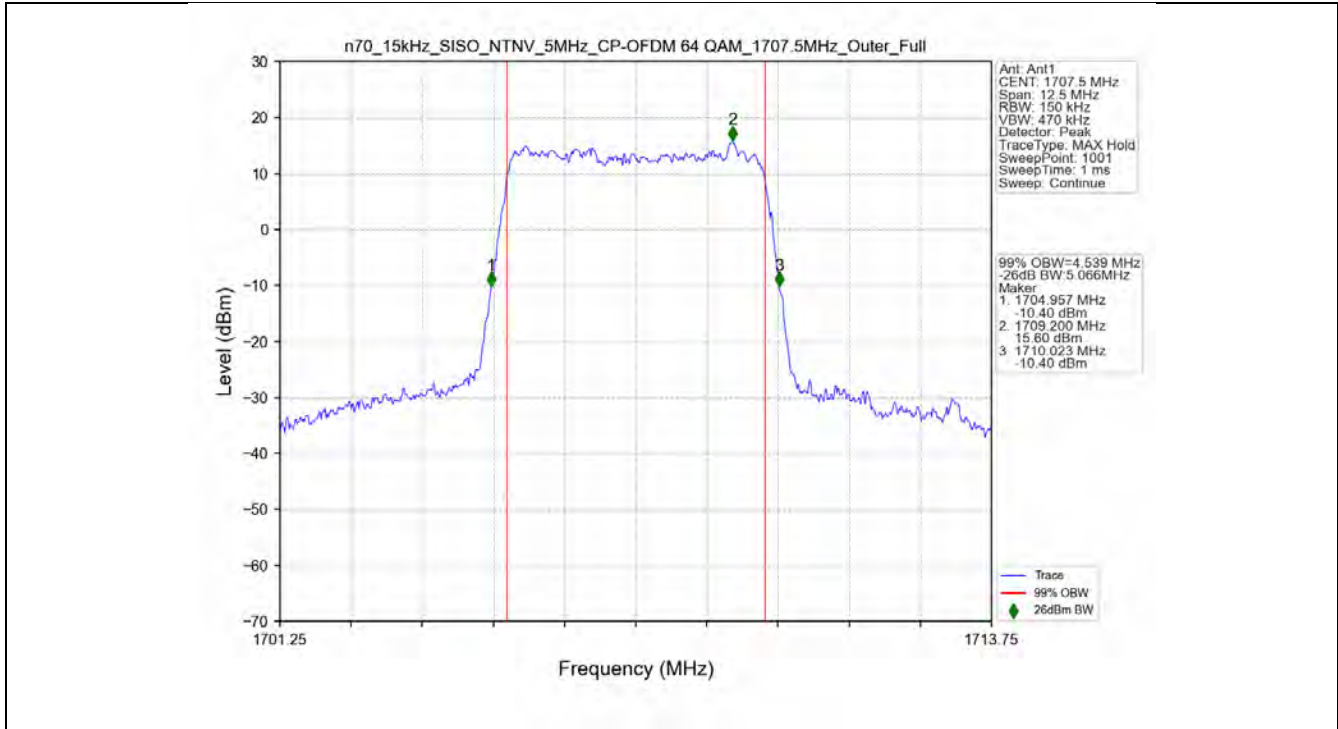


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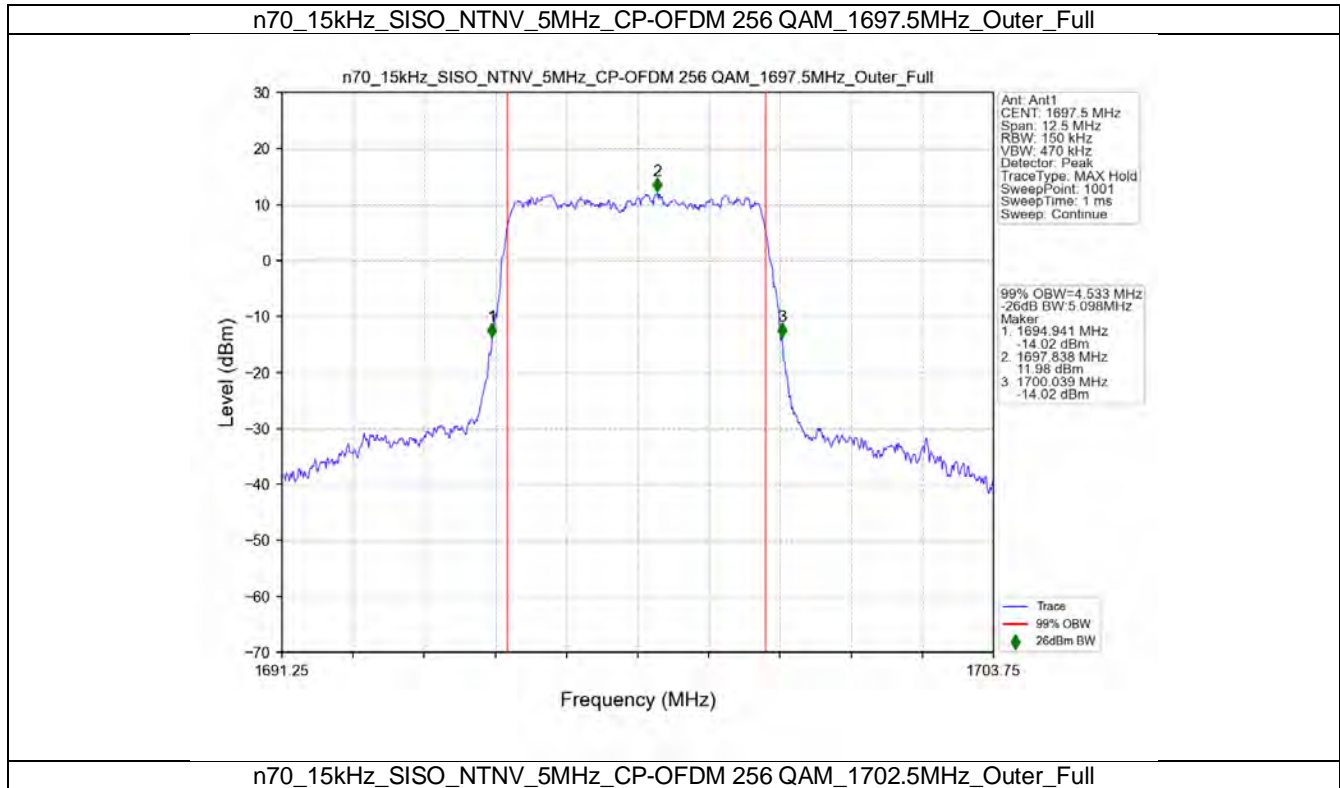


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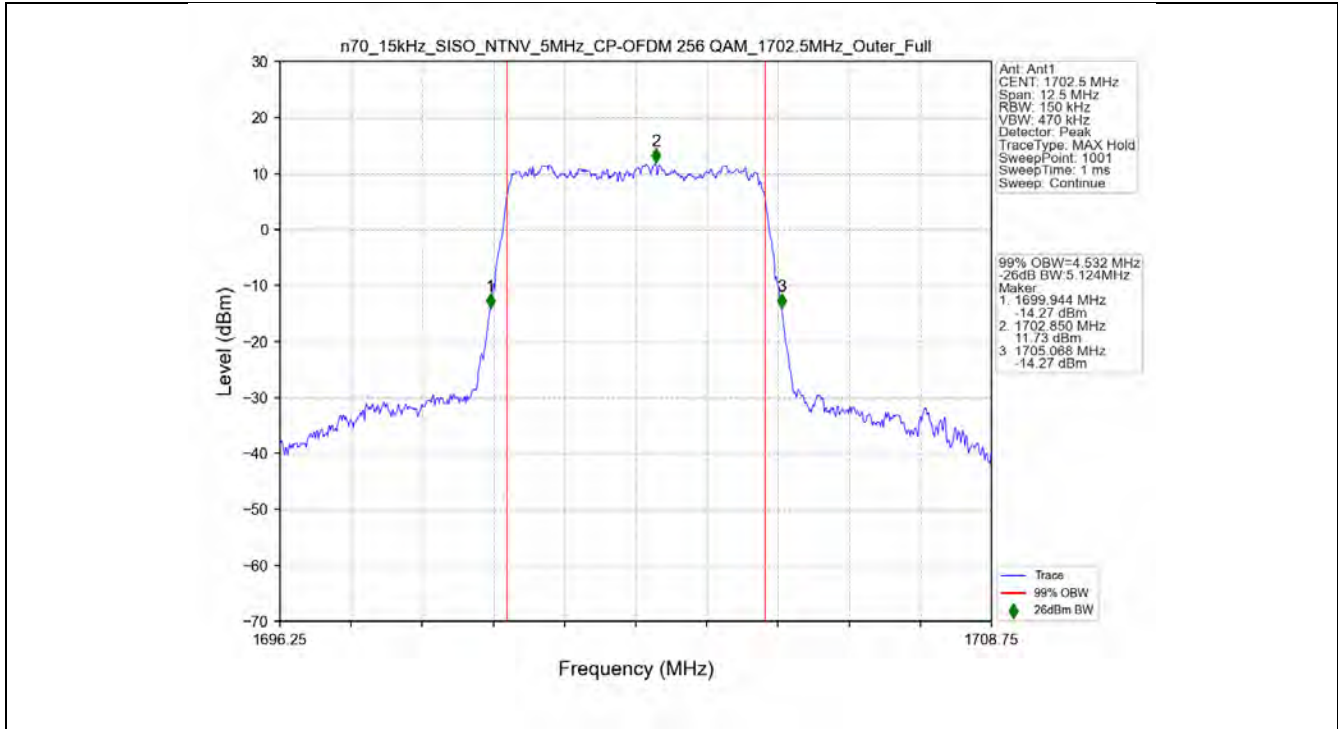


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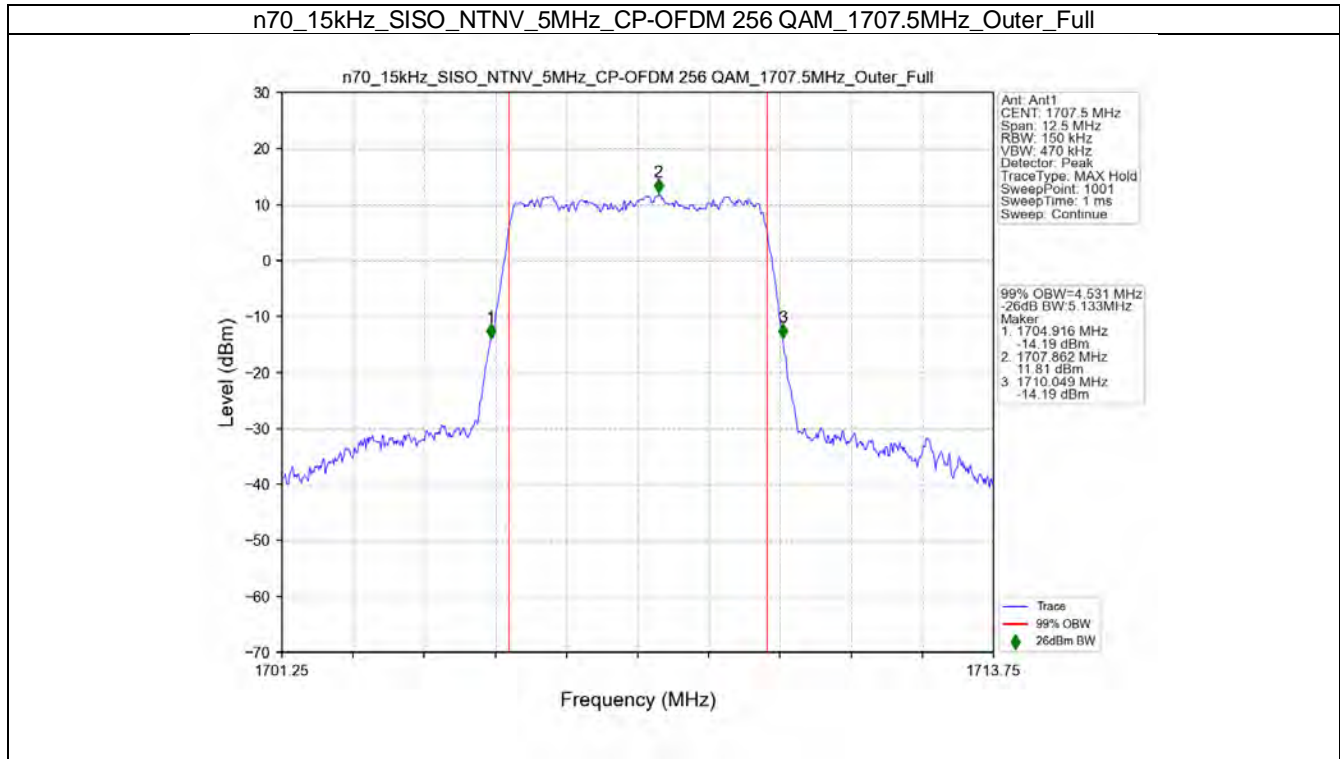


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3.2 15k_SISO_10MHz_NTNV

3.2.1 Test Result

| 5G NR n70 SCS=15kHz SISO 10MHz NNTV | | | | | | |
|-------------------------------------|-----------------|---------------|---------------------|----------------------|-------------|---------|
| Modulation | Frequency (MHz) | RB Allocation | 99% Bandwidth (MHz) | 26dB Bandwidth (MHz) | Limit (MHz) | Verdict |
| DFT-s-OFDM PI/2 BPSK | 1700 | Outer_Full | 9.04 | 9.84 | / | Pass |
| | 1702.5 | Outer_Full | 9.04 | 9.81 | / | Pass |
| | 1705 | Outer_Full | 9.04 | 9.82 | / | Pass |
| DFT-s-OFDM QPSK | 1700 | Outer_Full | 9.07 | 9.86 | / | Pass |
| | 1702.5 | Outer_Full | 9.06 | 9.88 | / | Pass |
| | 1705 | Outer_Full | 9.07 | 9.87 | / | Pass |
| DFT-s-OFDM 16 QAM | 1700 | Outer_Full | 9.06 | 9.82 | / | Pass |
| | 1702.5 | Outer_Full | 9.06 | 9.85 | / | Pass |
| | 1705 | Outer_Full | 9.06 | 9.85 | / | Pass |
| DFT-s-OFDM 64 QAM | 1700 | Outer_Full | 9.03 | 9.84 | / | Pass |
| | 1702.5 | Outer_Full | 9.05 | 9.82 | / | Pass |
| | 1705 | Outer_Full | 9.05 | 9.89 | / | Pass |
| DFT-s-OFDM 256 QAM | 1700 | Outer_Full | 9.06 | 9.86 | / | Pass |
| | 1702.5 | Outer_Full | 9.07 | 9.94 | / | Pass |
| | 1705 | Outer_Full | 9.06 | 9.86 | / | Pass |
| CP-OFDM QPSK | 1700 | Outer_Full | 9.37 | 10.23 | / | Pass |
| | 1702.5 | Outer_Full | 9.40 | 10.24 | / | Pass |
| | 1705 | Outer_Full | 9.40 | 10.26 | / | Pass |
| CP-OFDM 16 QAM | 1700 | Outer_Full | 9.38 | 10.18 | / | Pass |
| | 1702.5 | Outer_Full | 9.39 | 10.24 | / | Pass |
| | 1705 | Outer_Full | 9.38 | 10.20 | / | Pass |
| CP-OFDM 64 QAM | 1700 | Outer_Full | 9.37 | 10.17 | / | Pass |
| | 1702.5 | Outer_Full | 9.36 | 10.18 | / | Pass |
| | 1705 | Outer_Full | 9.36 | 10.14 | / | Pass |
| CP-OFDM 256 QAM | 1700 | Outer_Full | 9.40 | 10.21 | / | Pass |
| | 1702.5 | Outer_Full | 9.40 | 10.18 | / | Pass |
| | 1705 | Outer_Full | 9.41 | 10.20 | / | Pass |



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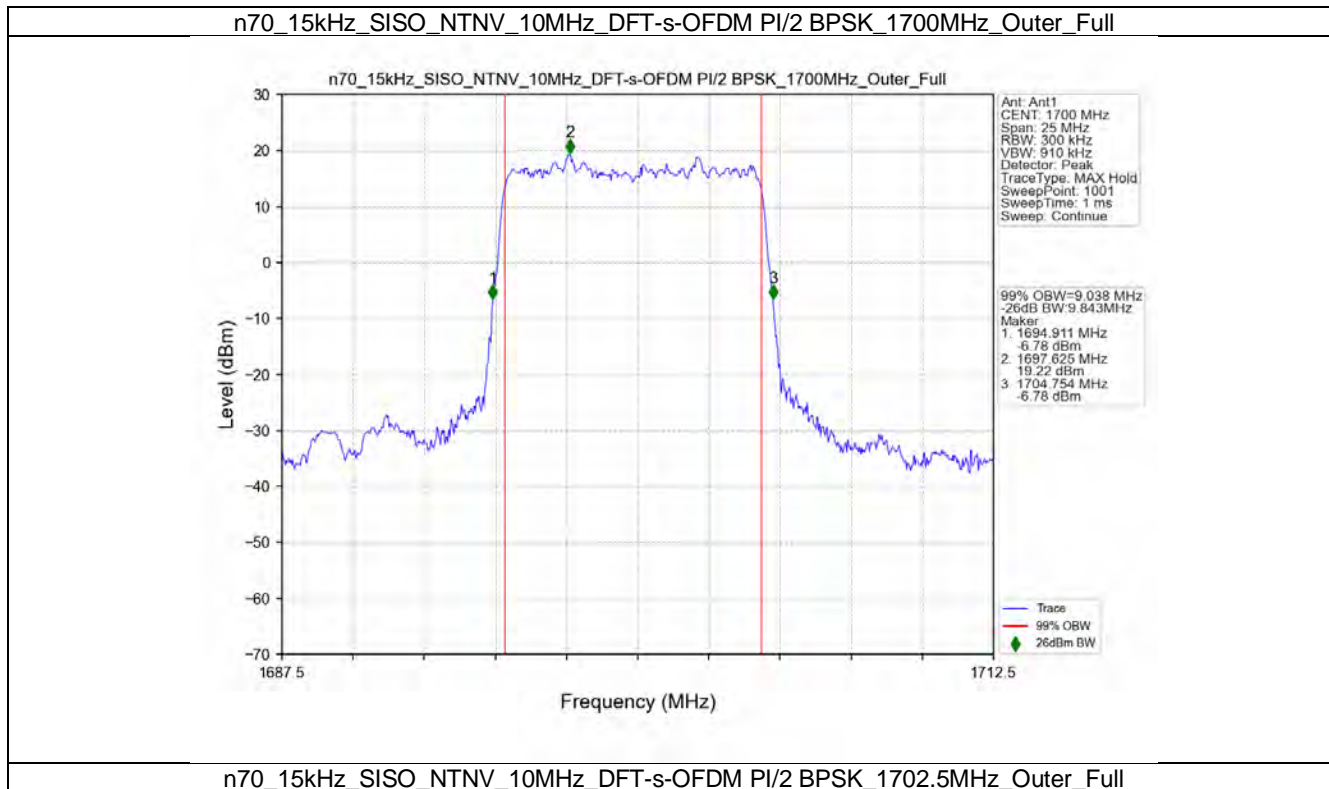
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3.2.2 Test Graph



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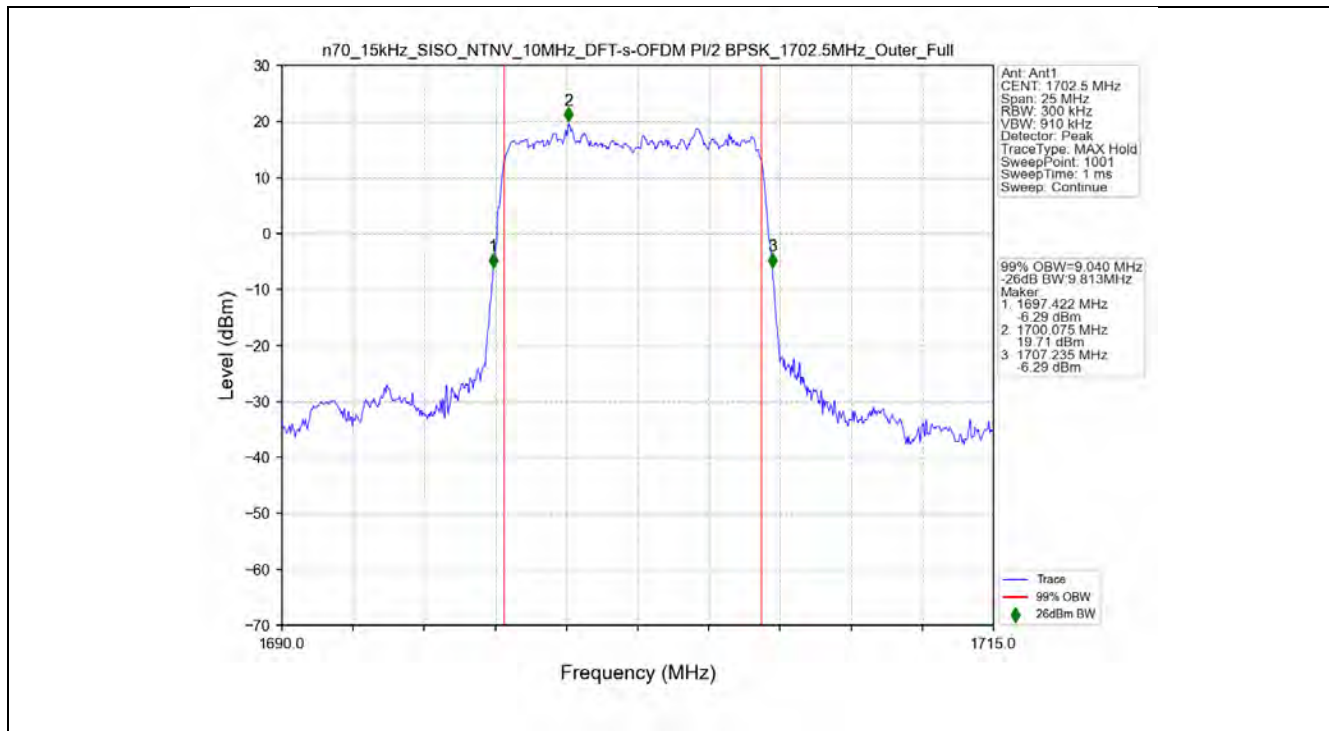
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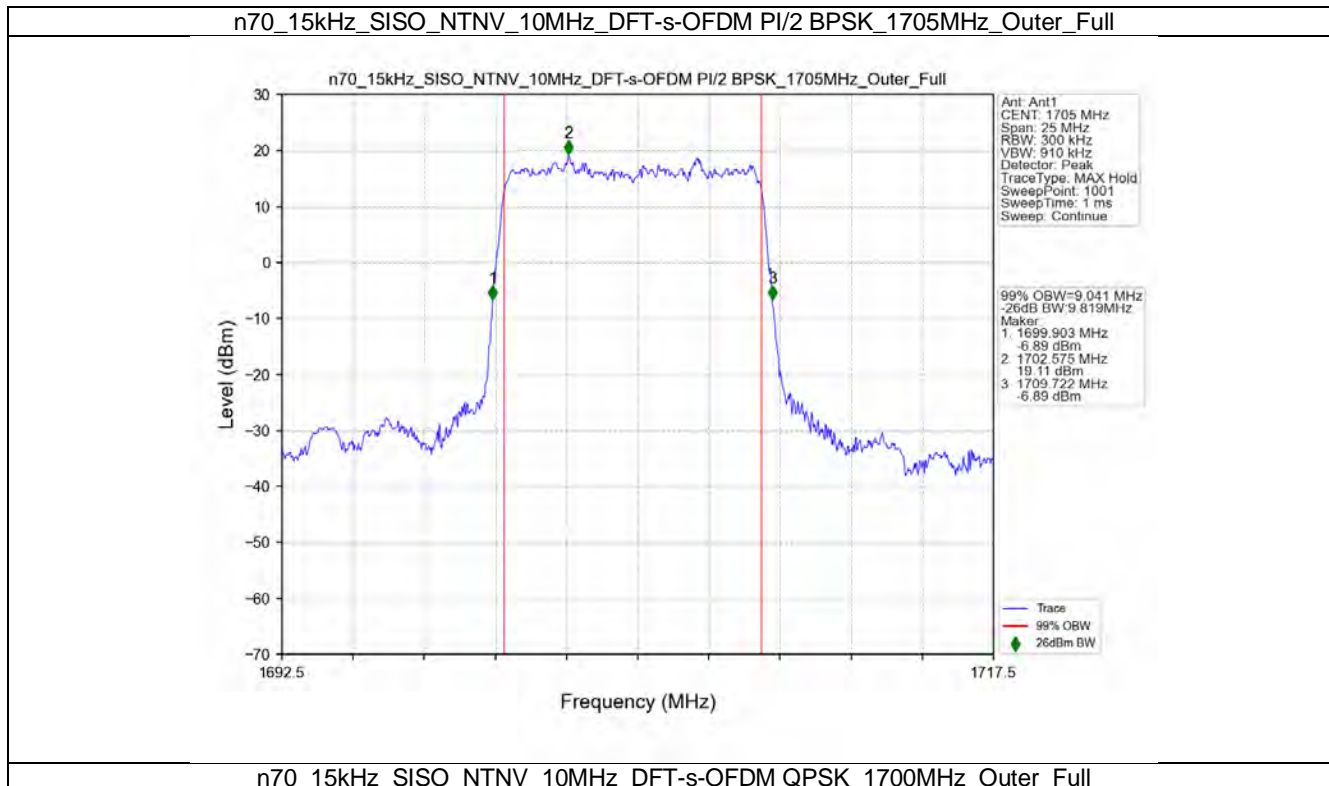
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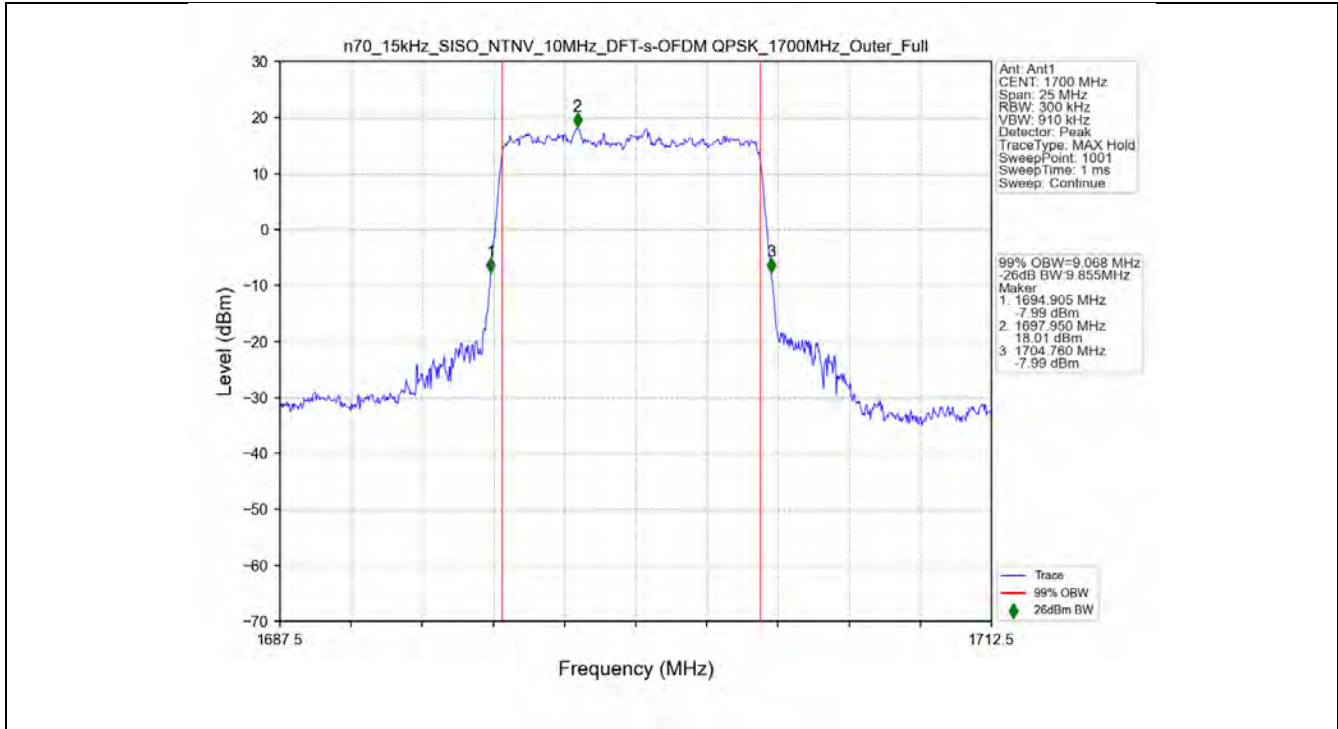


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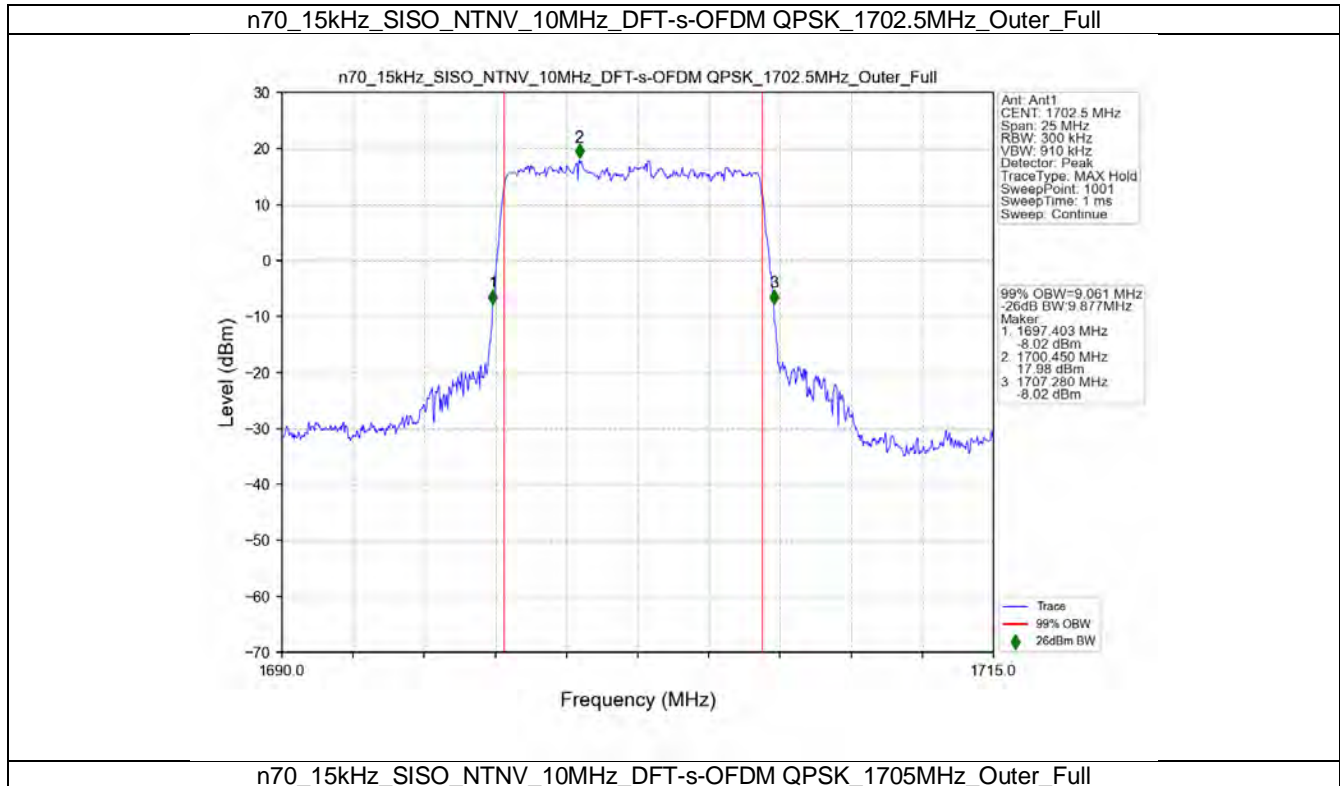


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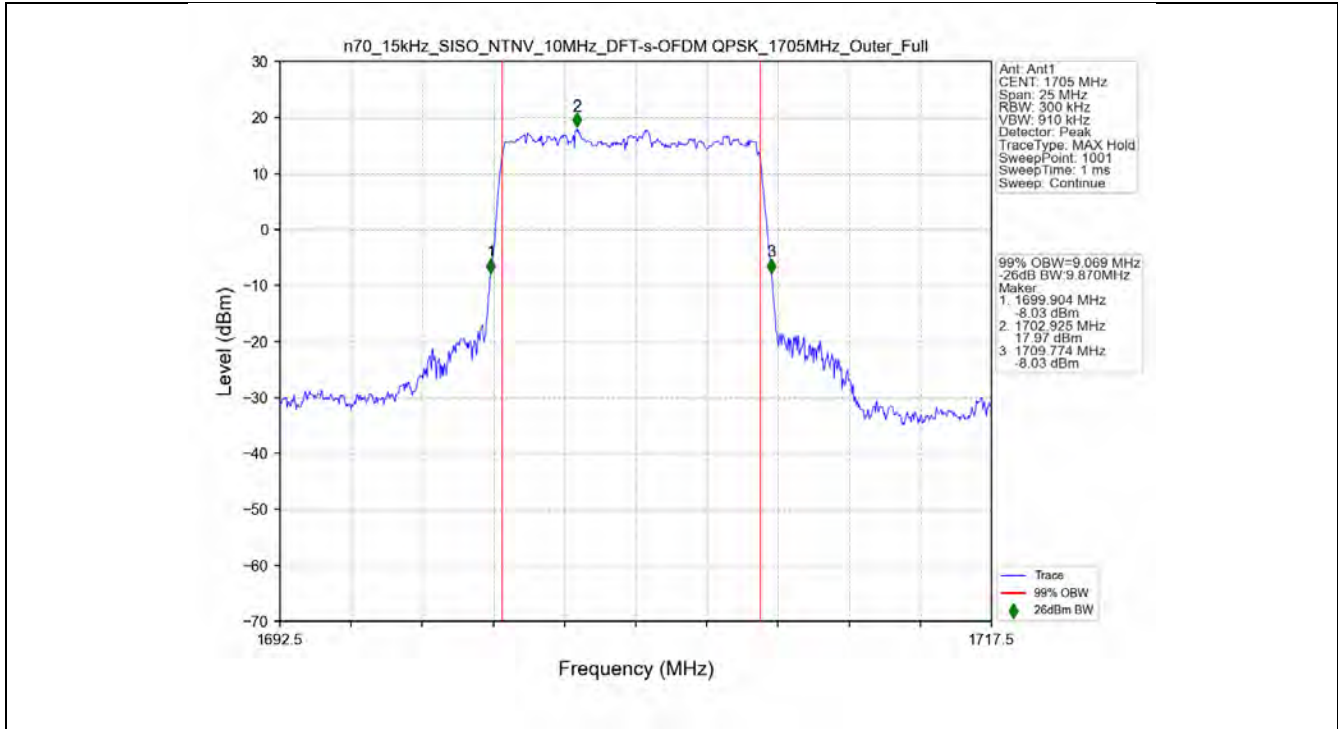


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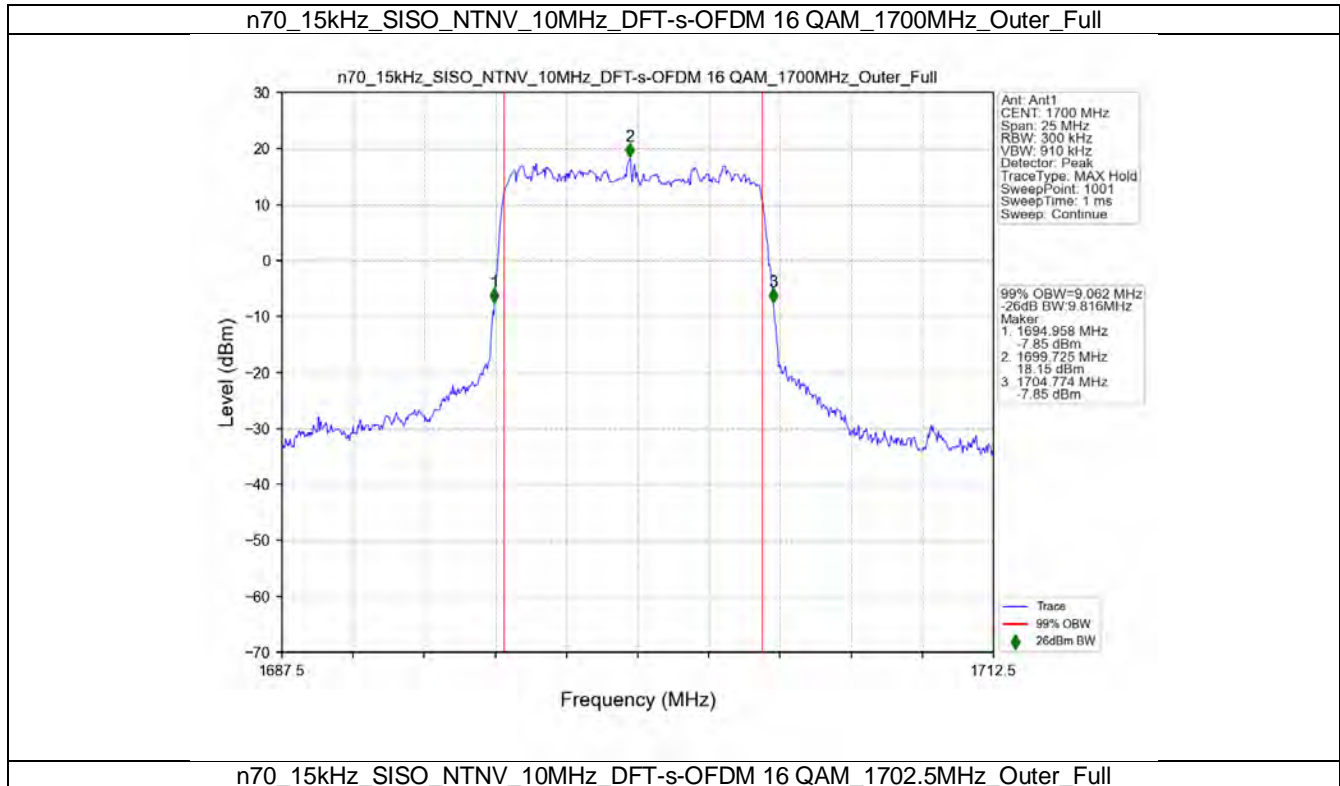


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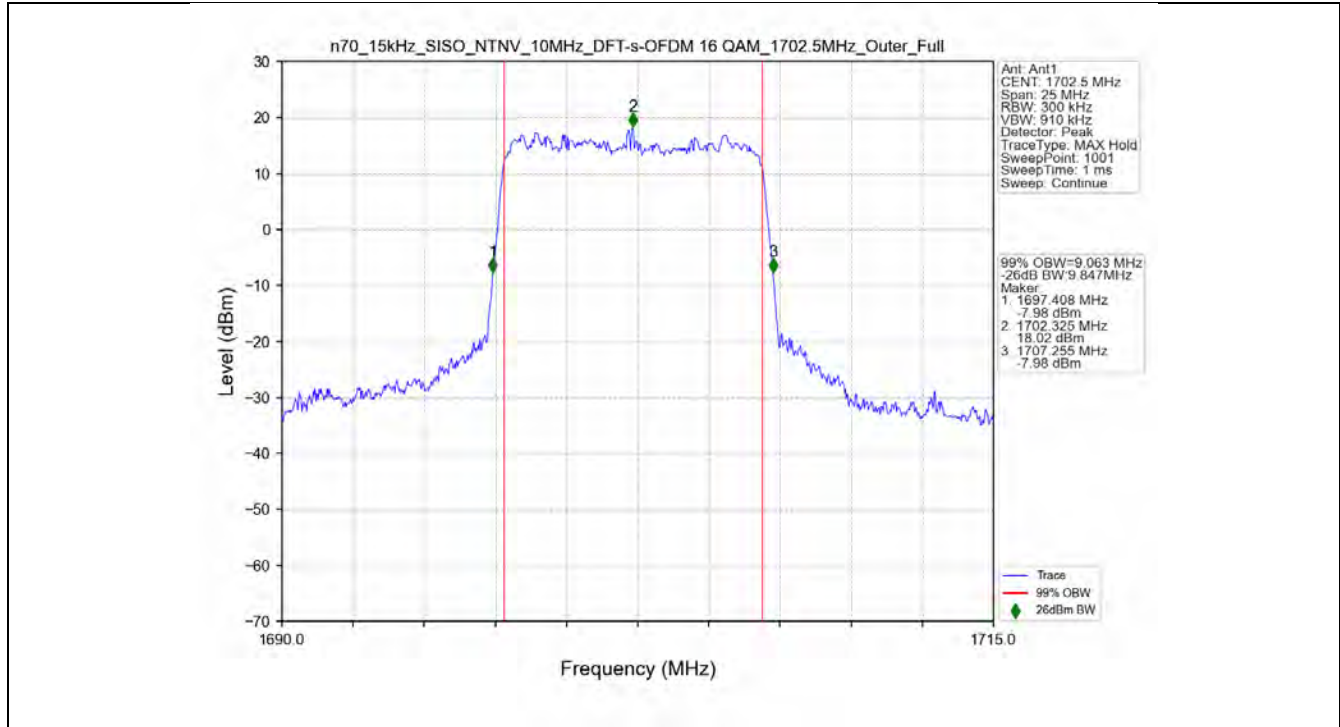


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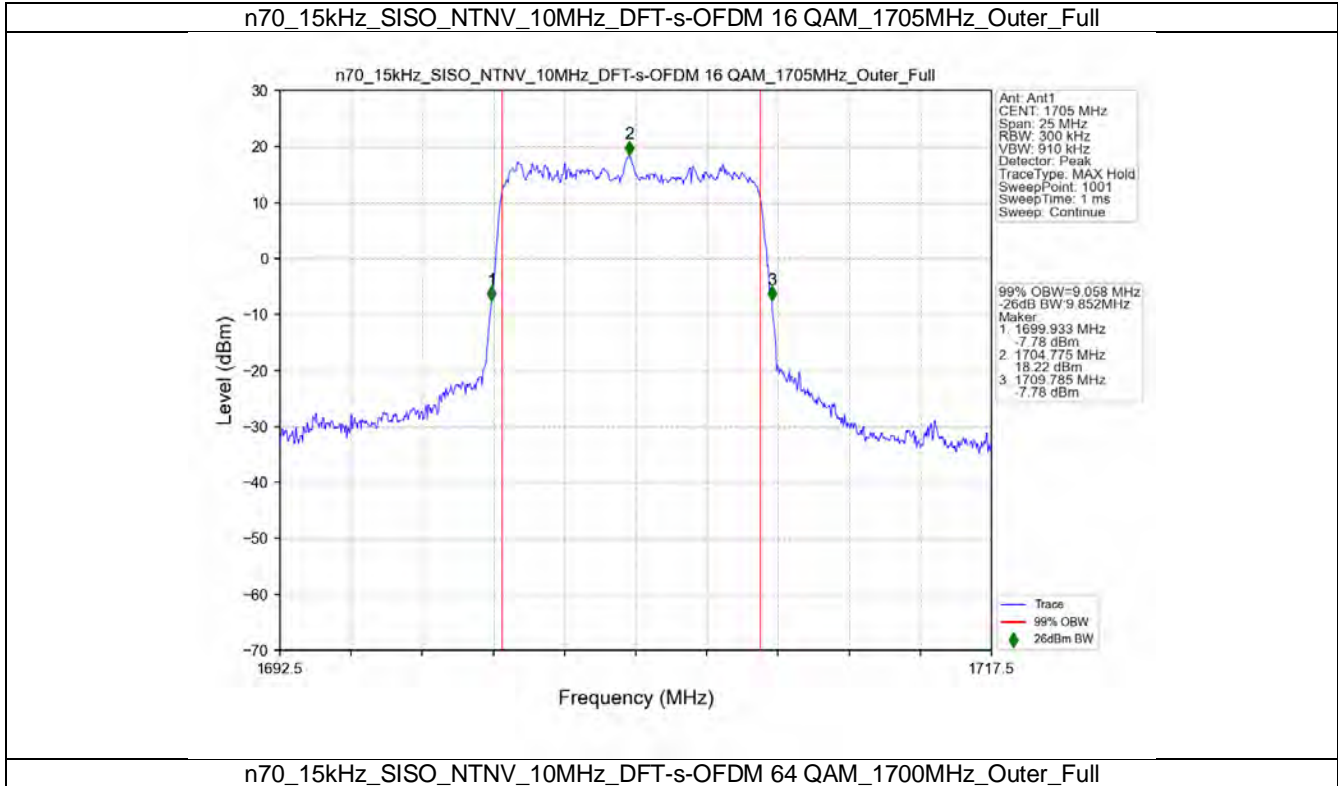


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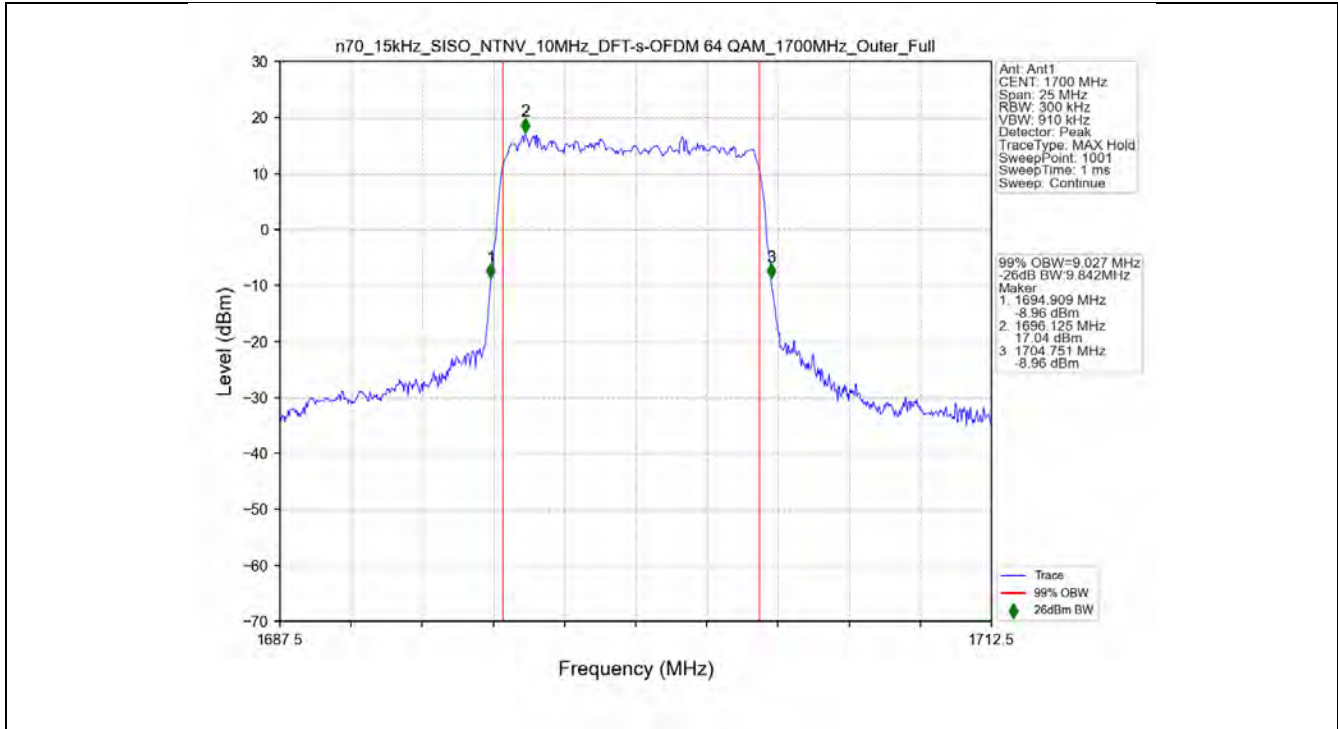


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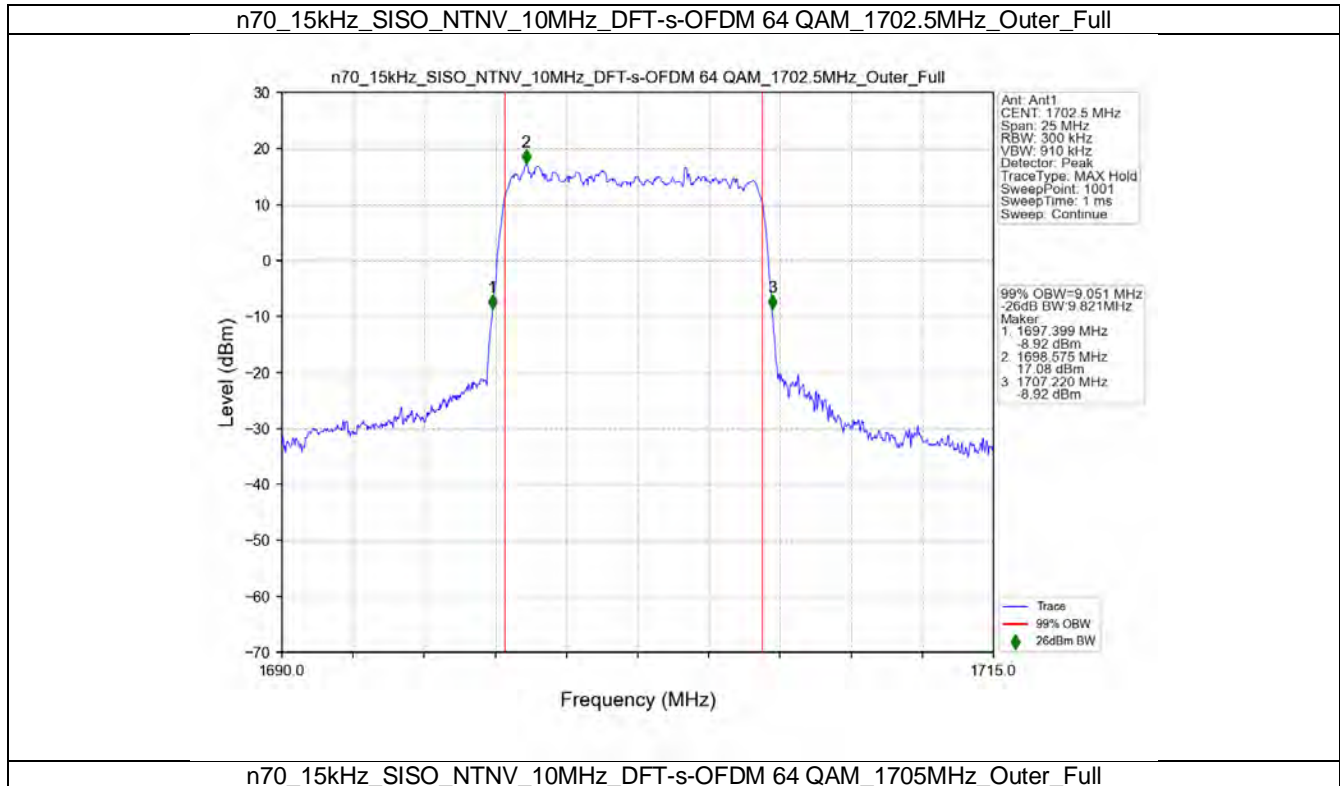


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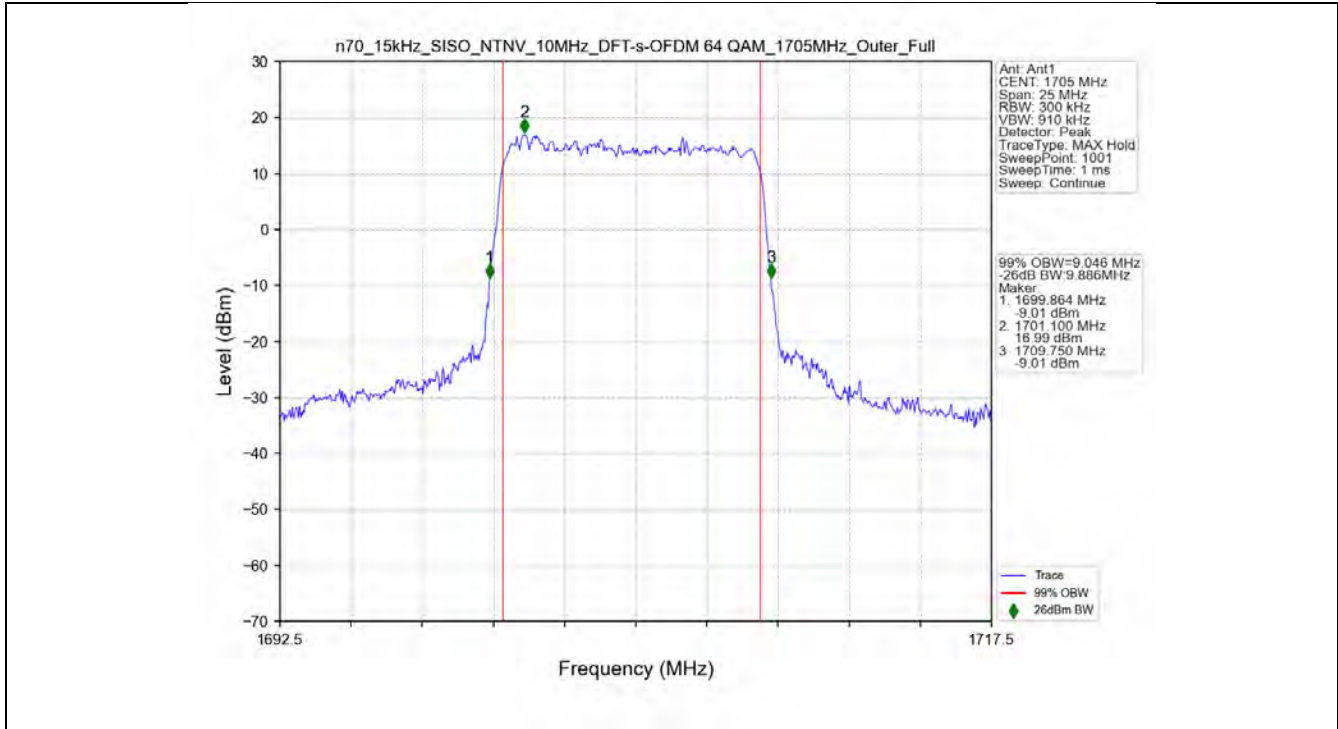


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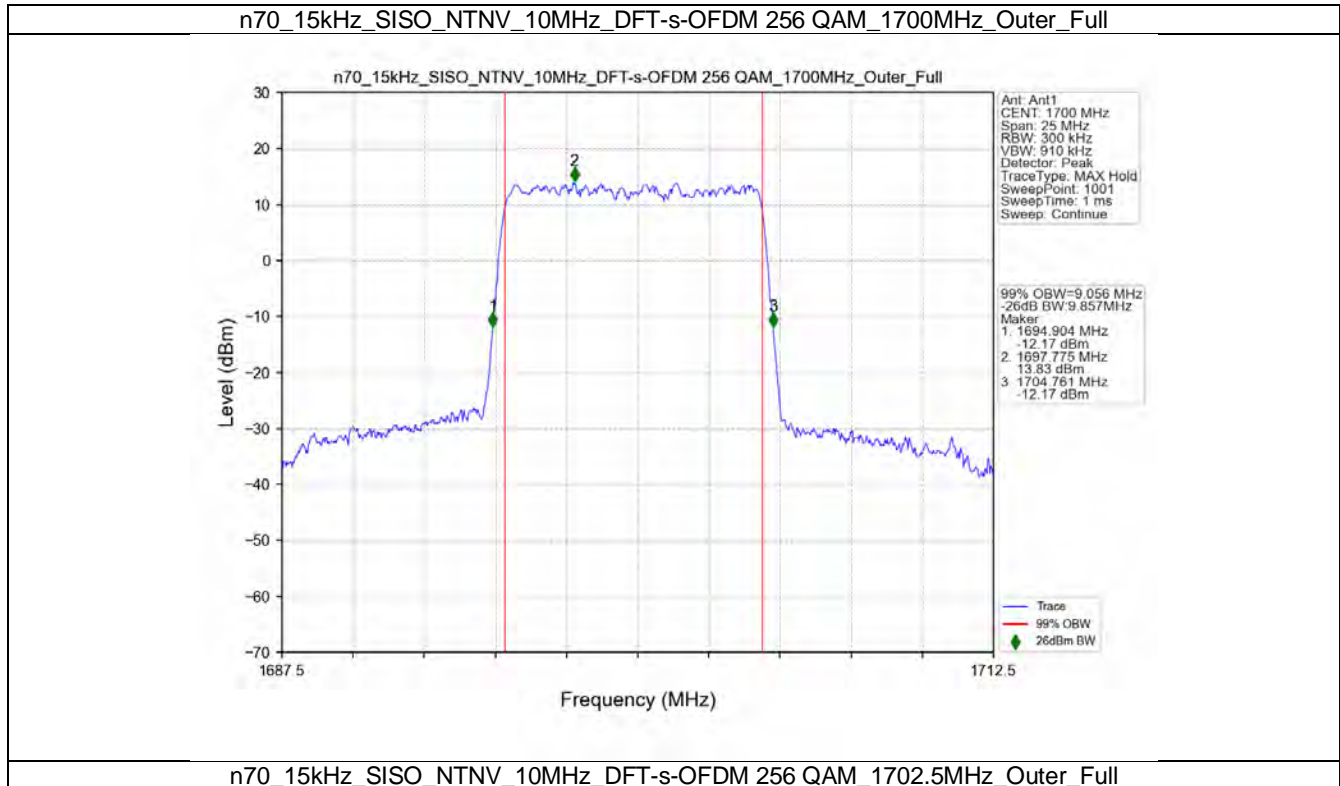


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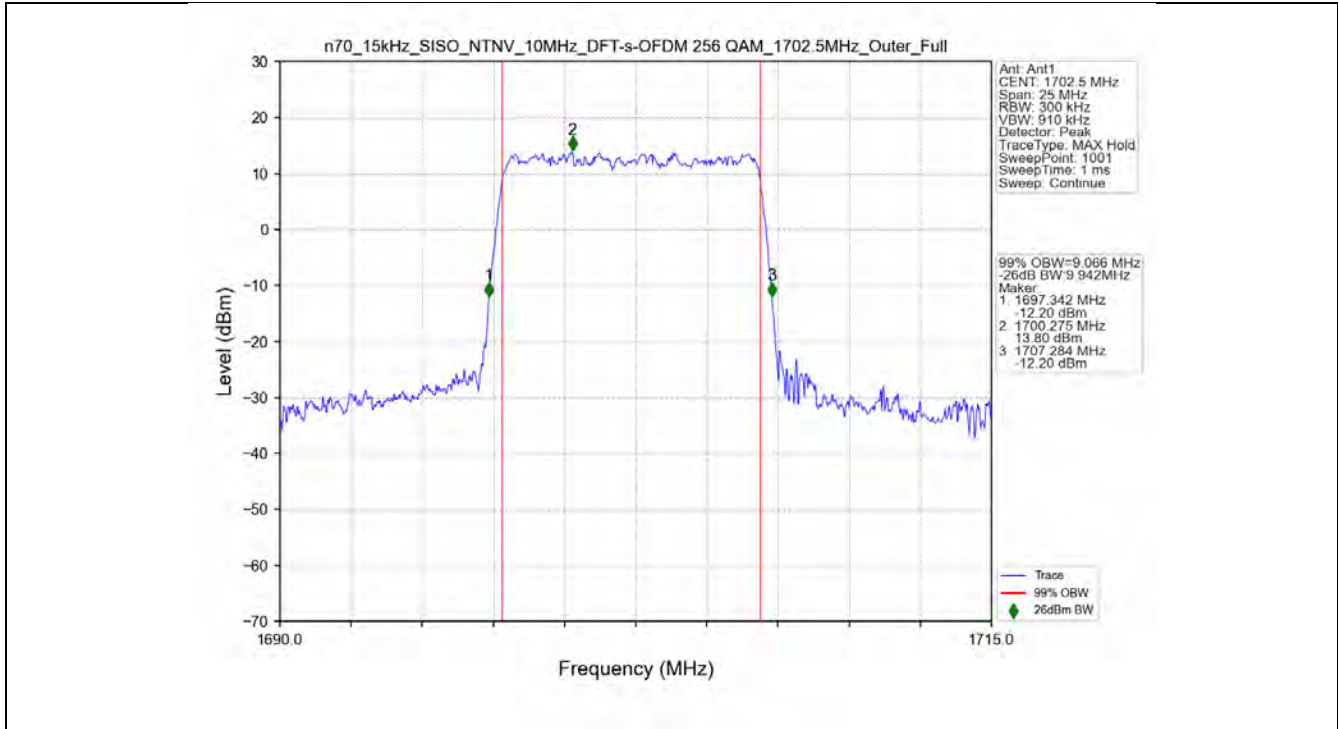


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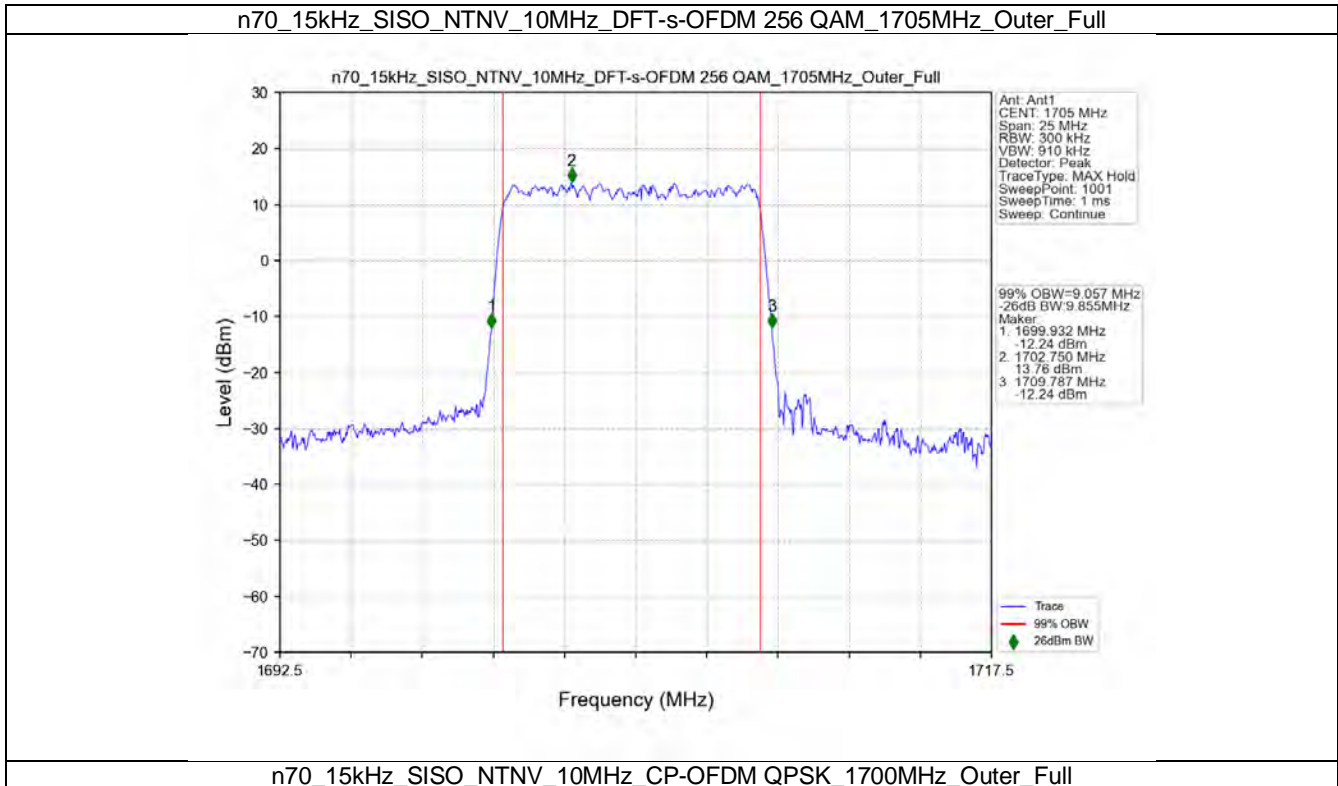


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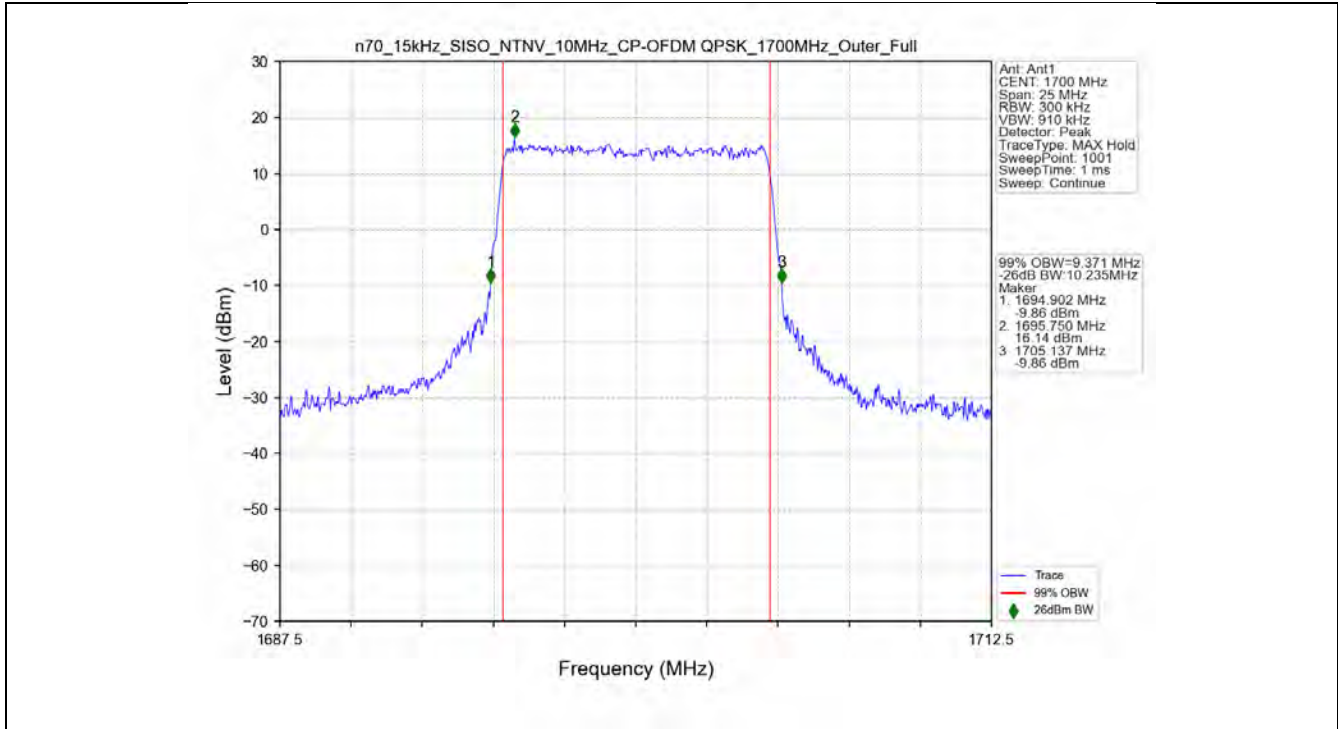


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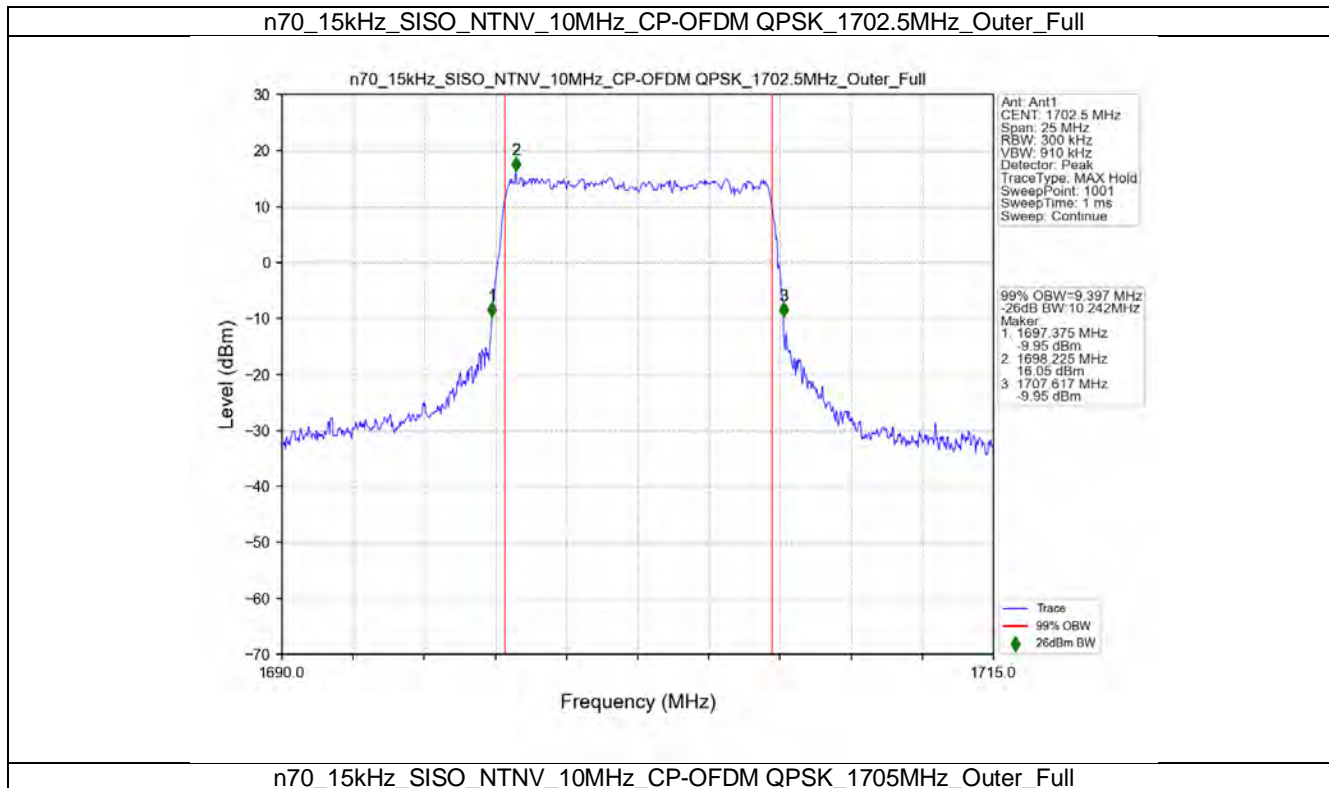
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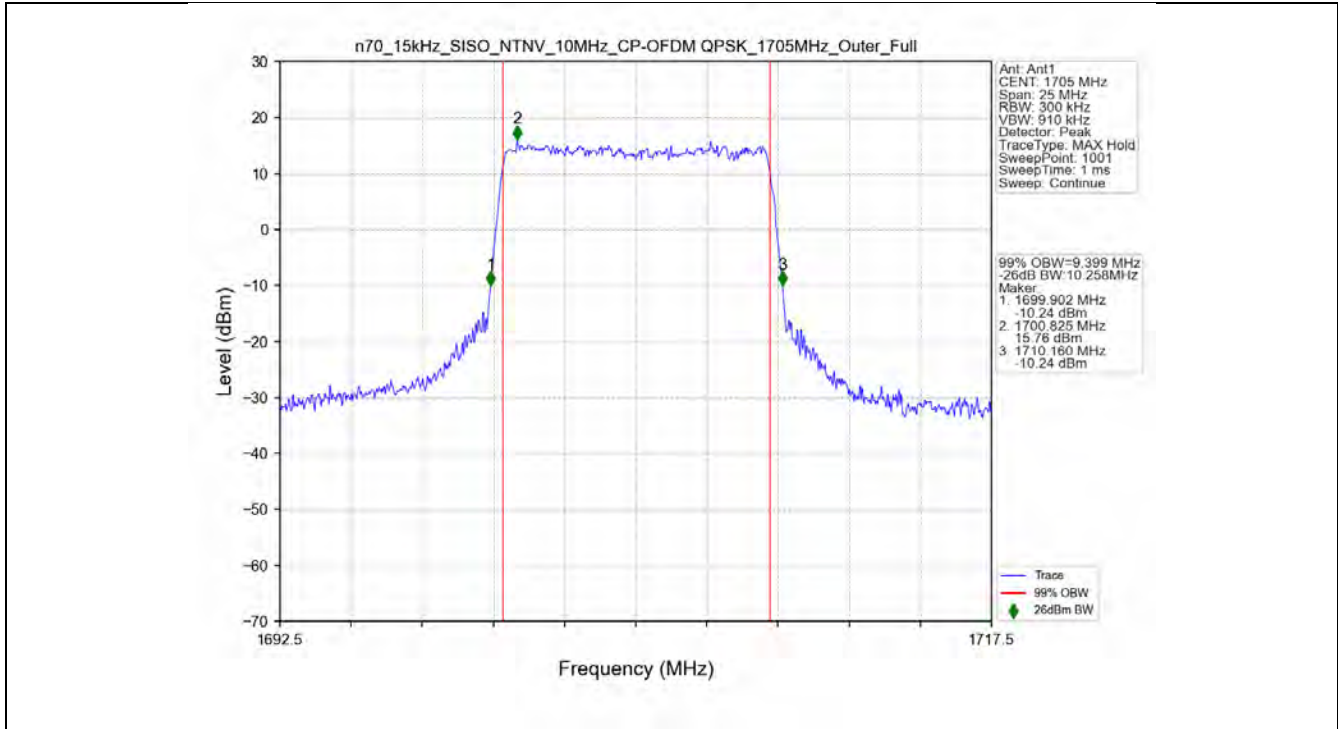


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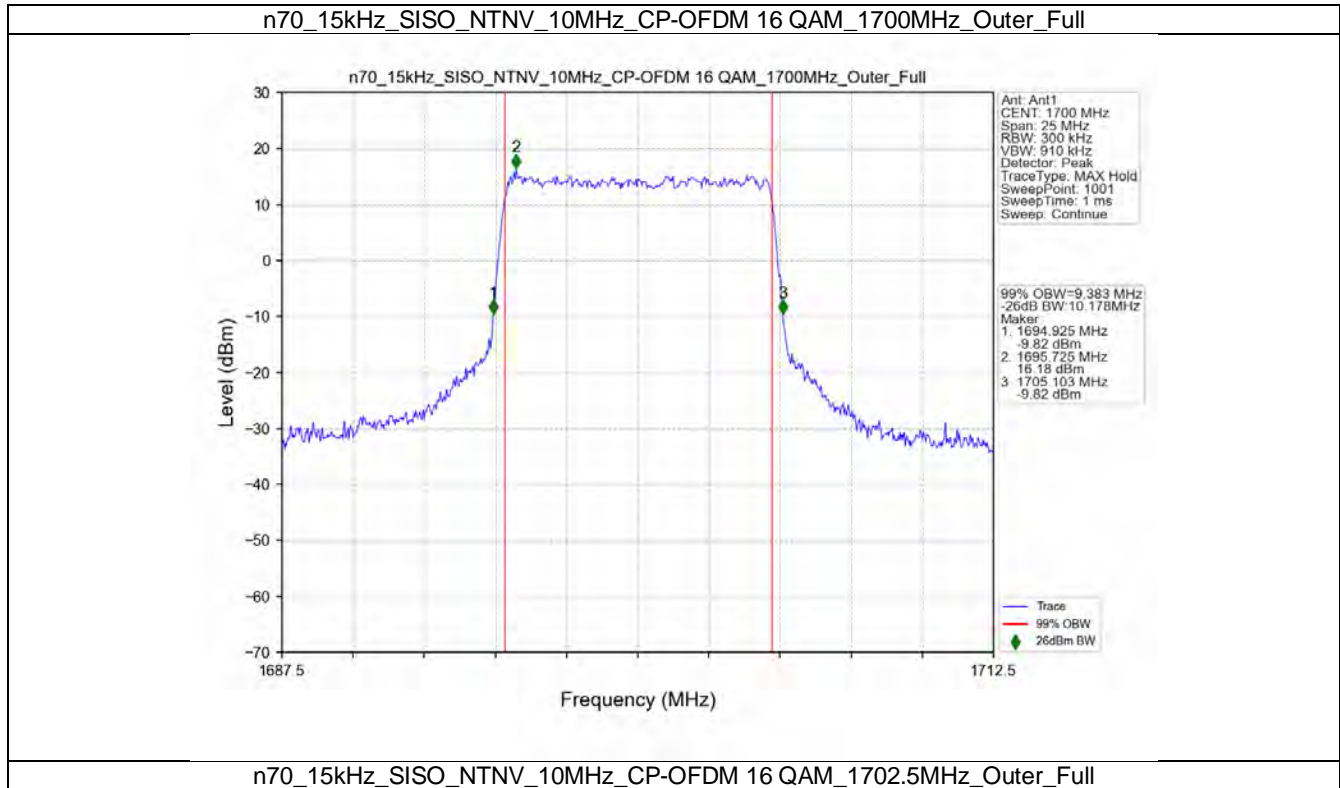


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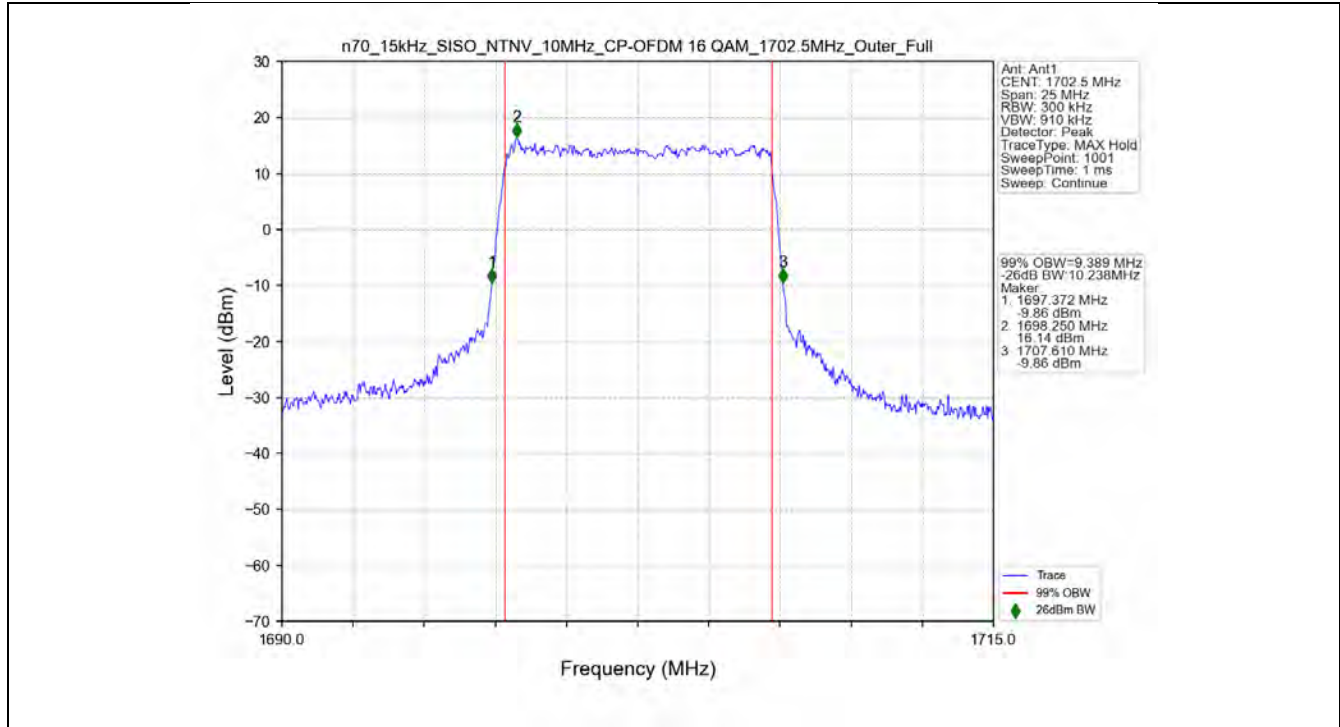


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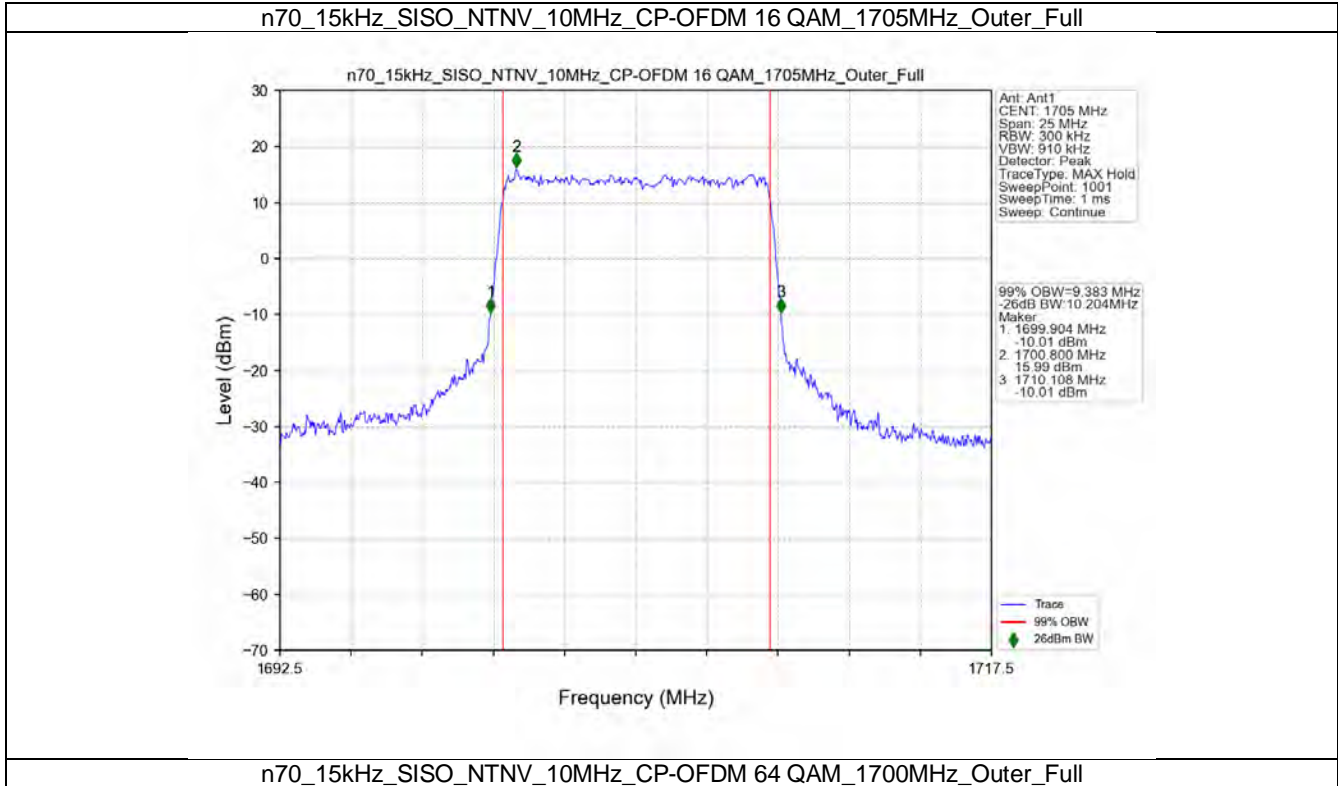


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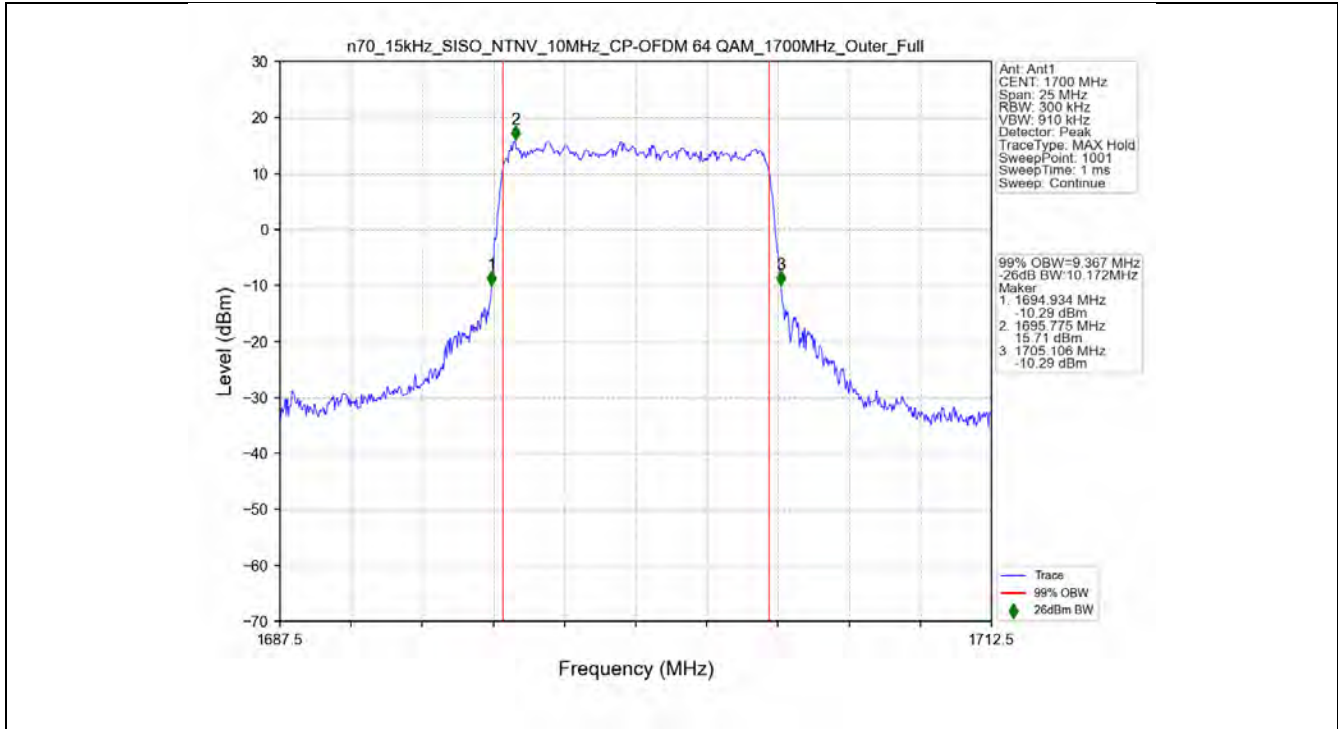


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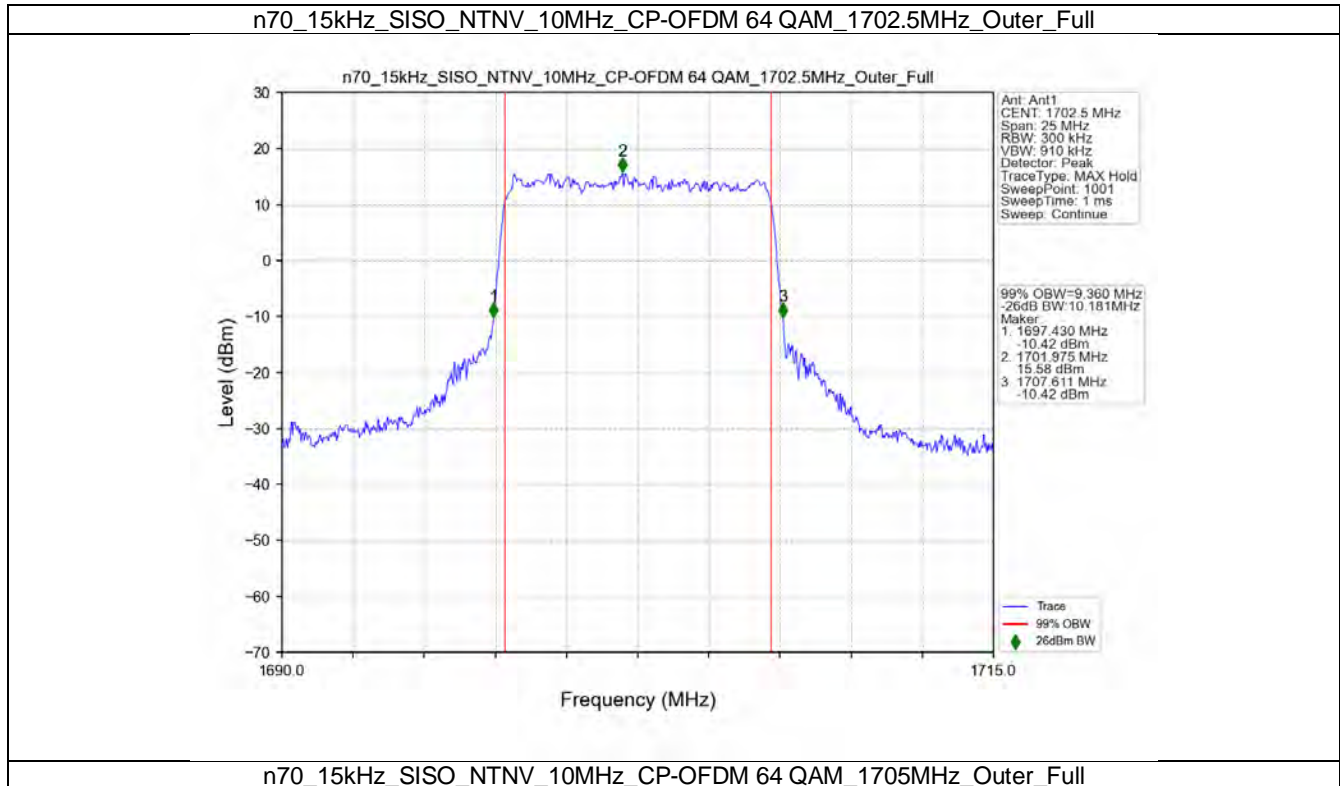


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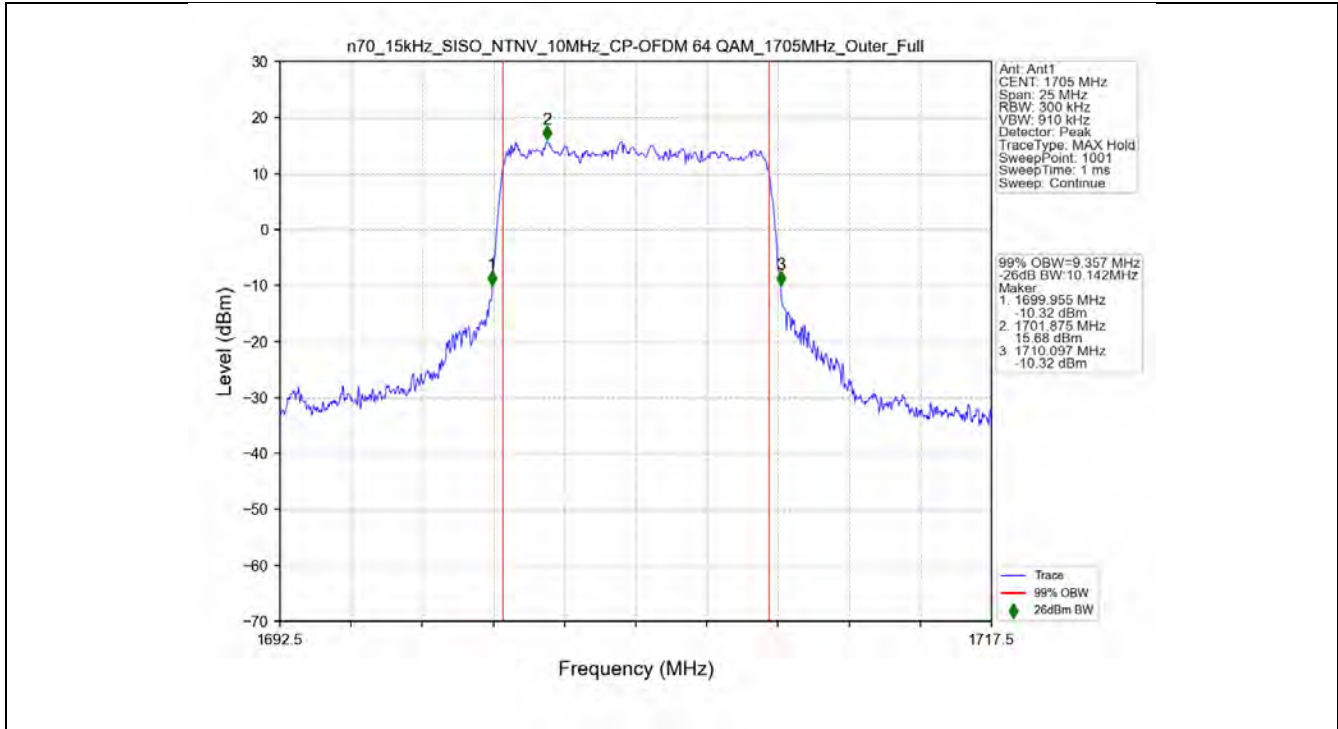


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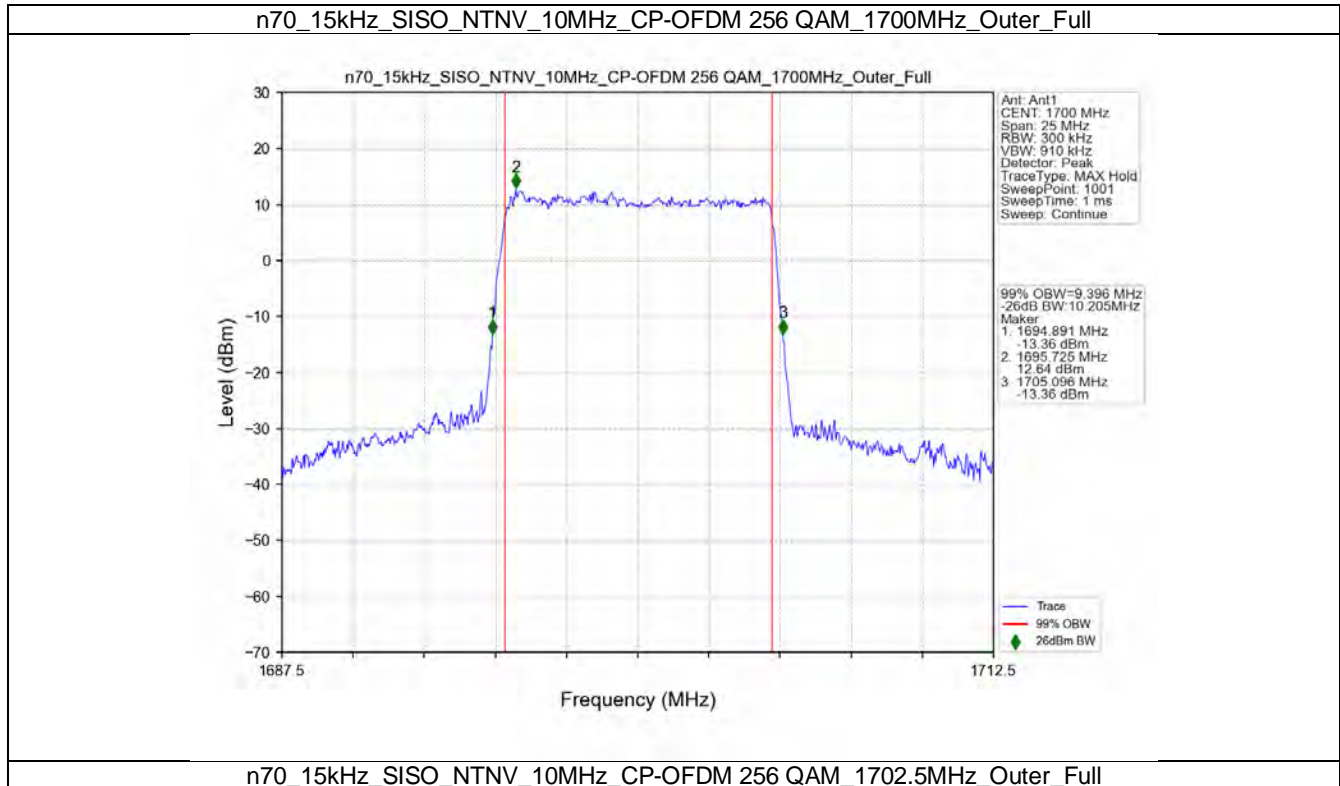


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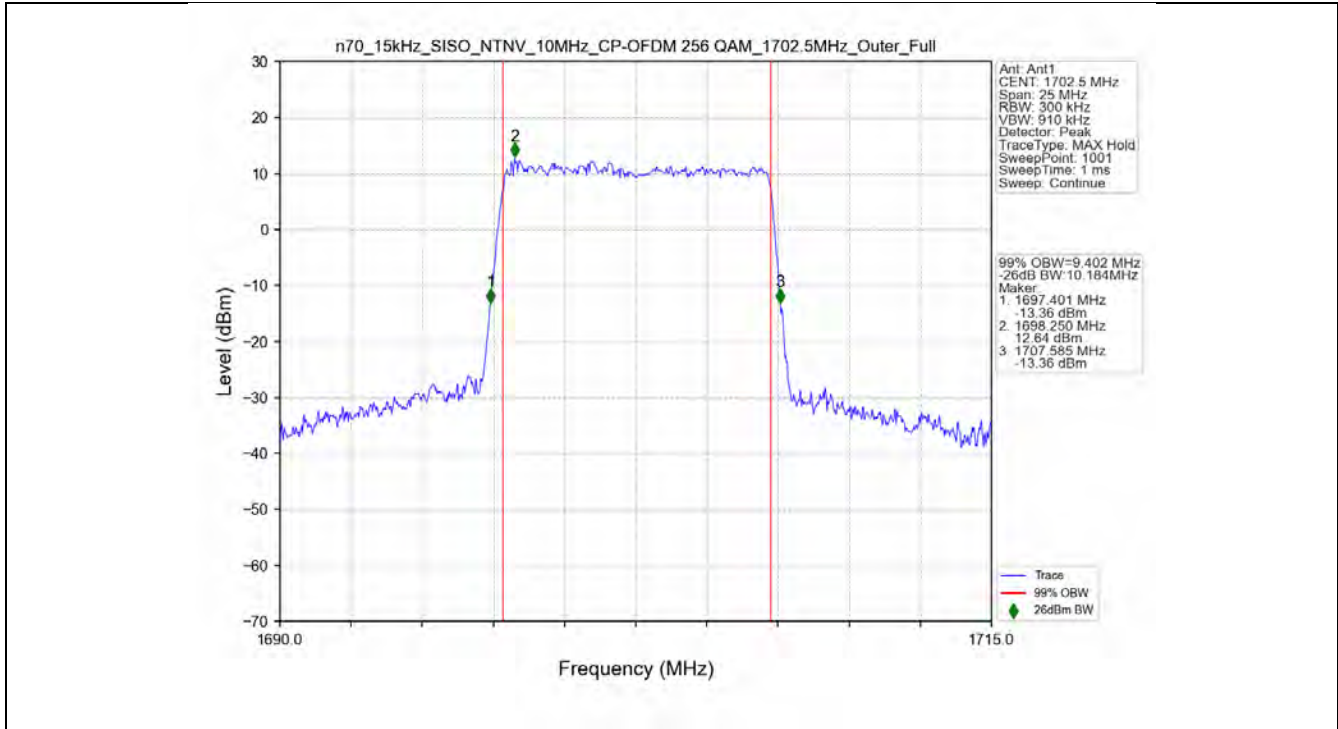


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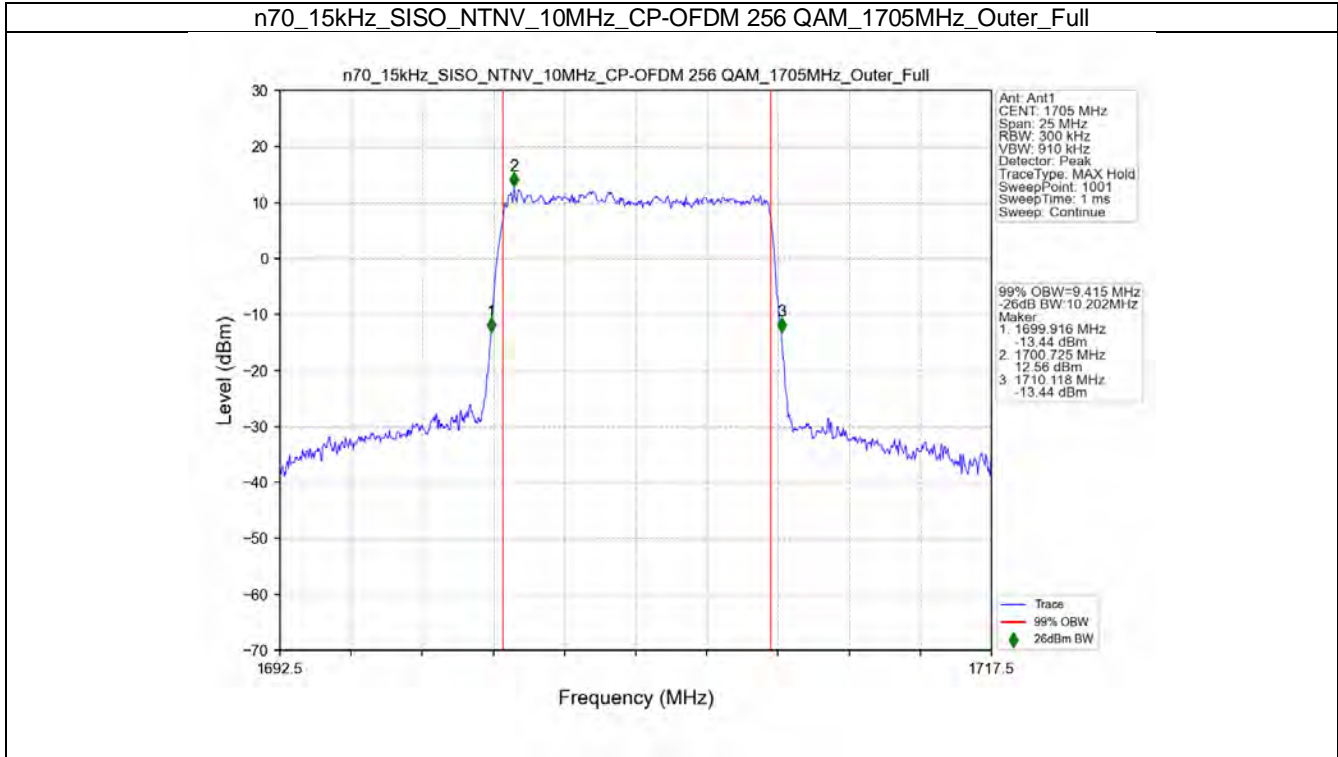


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3.3 15k_SISO_15MHz_NTNV

3.3.1 Test Result

| 5G NR n70 SCS=15kHz SISO 15MHz NNTV | | | | | | |
|-------------------------------------|-----------------|---------------|---------------------|----------------------|-------------|---------|
| Modulation | Frequency (MHz) | RB Allocation | 99% Bandwidth (MHz) | 26dB Bandwidth (MHz) | Limit (MHz) | Verdict |
| DFT-s-OFDM PI/2 BPSK | 1702.5 | Outer_Full | 13.58 | 14.64 | / | Pass |
| | 1702.5 | Outer_Full | 13.58 | 14.63 | / | Pass |
| | 1702.5 | Outer_Full | 13.58 | 14.64 | / | Pass |
| DFT-s-OFDM QPSK | 1702.5 | Outer_Full | 13.59 | 14.63 | / | Pass |
| | 1702.5 | Outer_Full | 13.60 | 14.65 | / | Pass |
| | 1702.5 | Outer_Full | 13.59 | 14.65 | / | Pass |
| DFT-s-OFDM 16 QAM | 1702.5 | Outer_Full | 13.65 | 14.66 | / | Pass |
| | 1702.5 | Outer_Full | 13.64 | 14.65 | / | Pass |
| | 1702.5 | Outer_Full | 13.63 | 14.62 | / | Pass |
| DFT-s-OFDM 64 QAM | 1702.5 | Outer_Full | 13.54 | 14.64 | / | Pass |
| | 1702.5 | Outer_Full | 13.55 | 14.65 | / | Pass |
| | 1702.5 | Outer_Full | 13.56 | 14.64 | / | Pass |
| DFT-s-OFDM 256 QAM | 1702.5 | Outer_Full | 13.59 | 14.73 | / | Pass |
| | 1702.5 | Outer_Full | 13.59 | 14.73 | / | Pass |
| | 1702.5 | Outer_Full | 13.59 | 14.76 | / | Pass |
| CP-OFDM QPSK | 1702.5 | Outer_Full | 14.28 | 15.37 | / | Pass |
| | 1702.5 | Outer_Full | 14.27 | 15.36 | / | Pass |
| | 1702.5 | Outer_Full | 14.26 | 15.30 | / | Pass |
| CP-OFDM 16 QAM | 1702.5 | Outer_Full | 14.28 | 15.34 | / | Pass |
| | 1702.5 | Outer_Full | 14.29 | 15.34 | / | Pass |
| | 1702.5 | Outer_Full | 14.25 | 15.33 | / | Pass |
| CP-OFDM 64 QAM | 1702.5 | Outer_Full | 14.31 | 15.38 | / | Pass |
| | 1702.5 | Outer_Full | 14.26 | 15.36 | / | Pass |
| | 1702.5 | Outer_Full | 14.30 | 15.43 | / | Pass |
| CP-OFDM 256 QAM | 1702.5 | Outer_Full | 14.26 | 15.34 | / | Pass |
| | 1702.5 | Outer_Full | 14.26 | 15.33 | / | Pass |
| | 1702.5 | Outer_Full | 14.27 | 15.34 | / | Pass |



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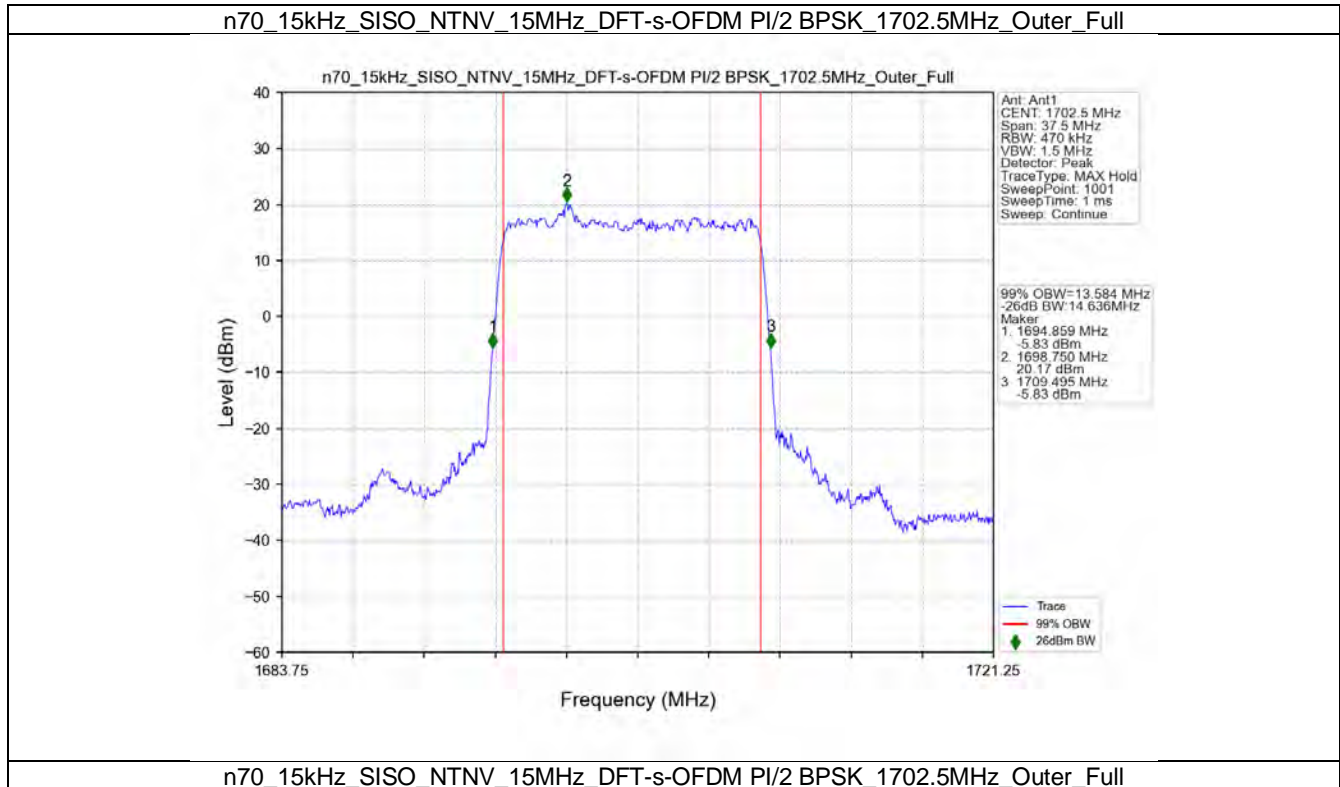
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3.3.2 Test Graph



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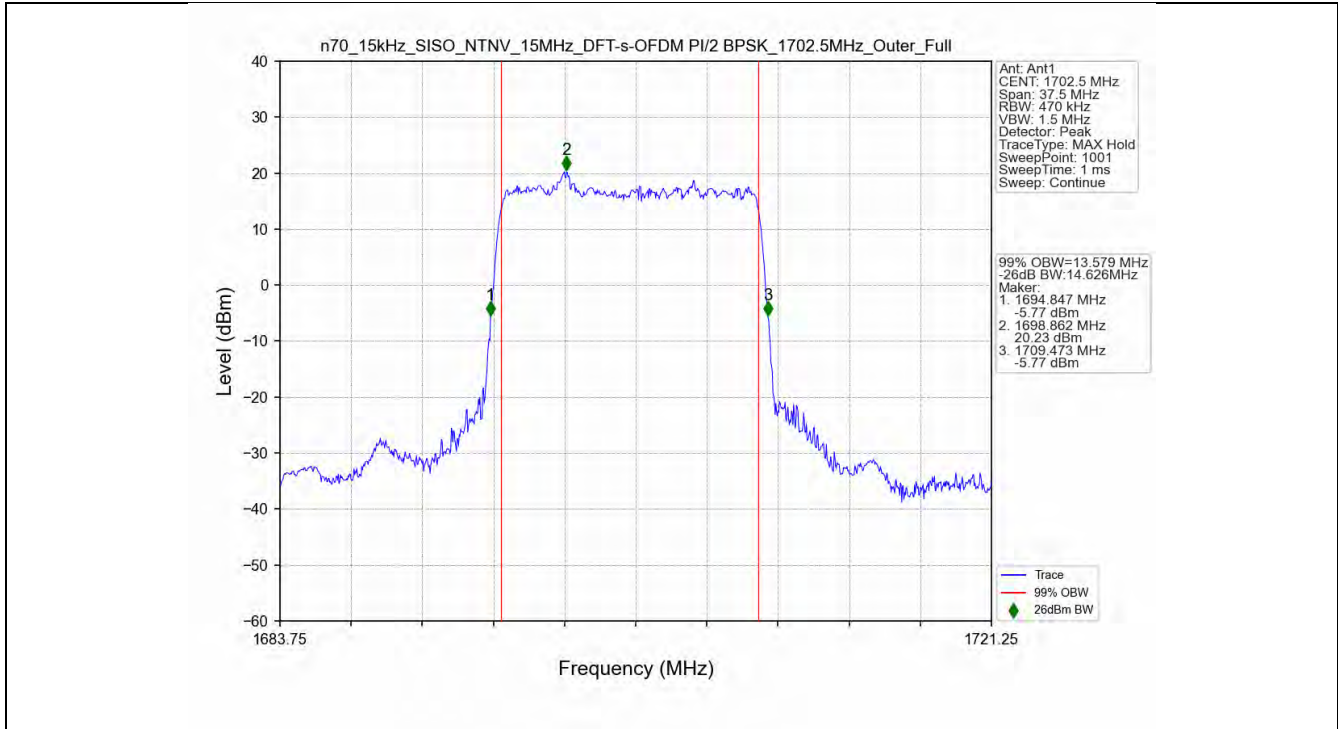


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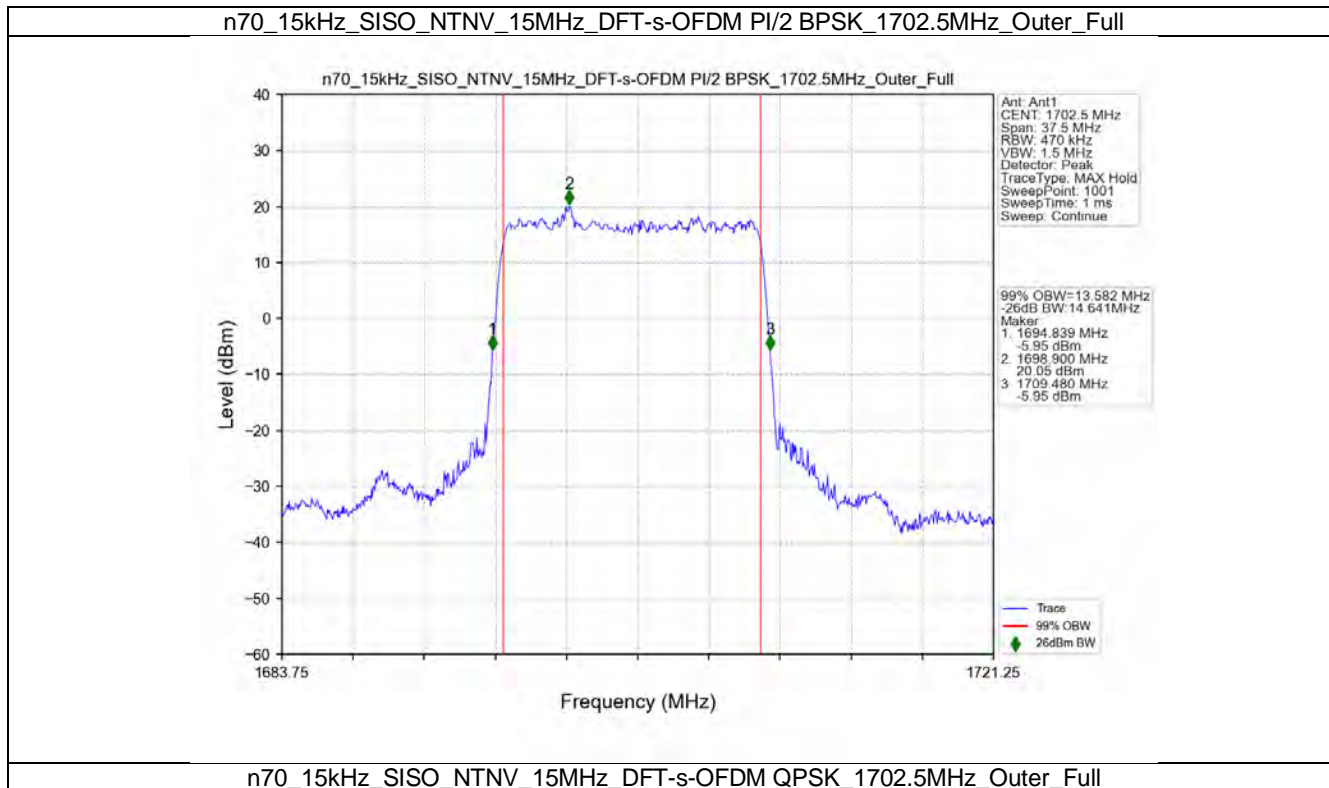
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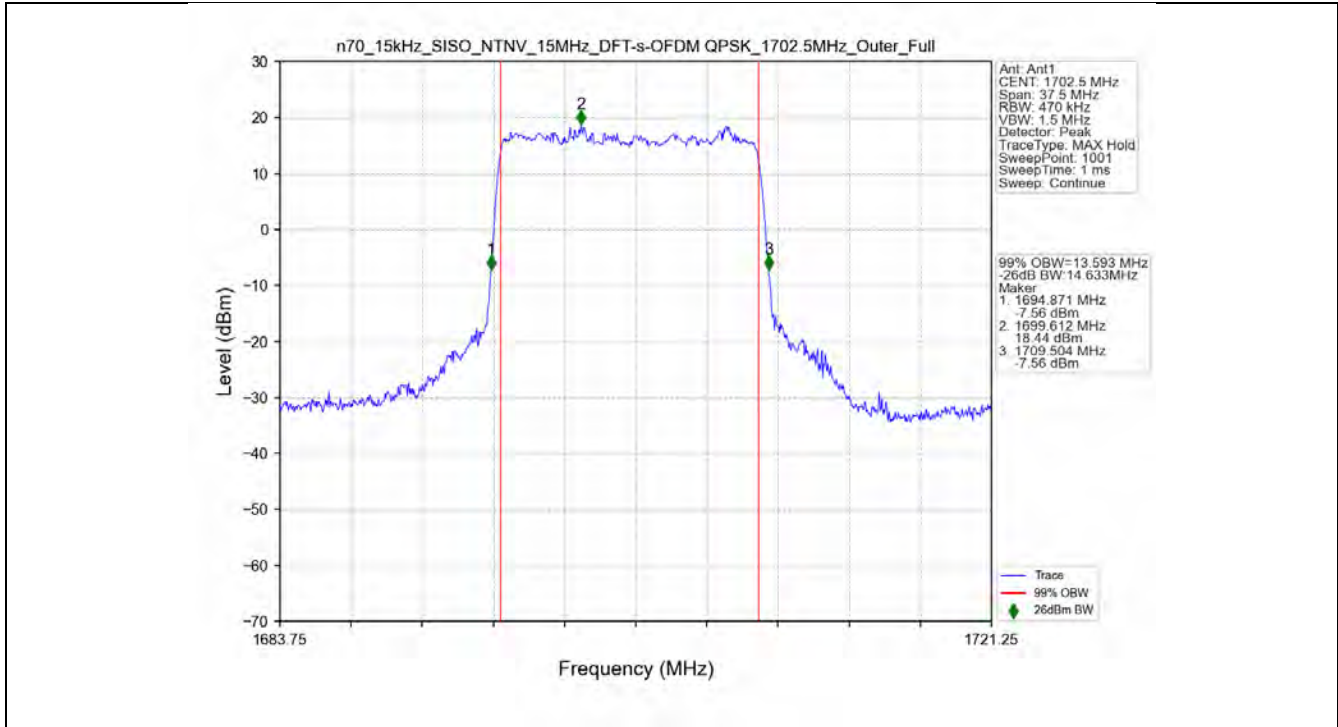


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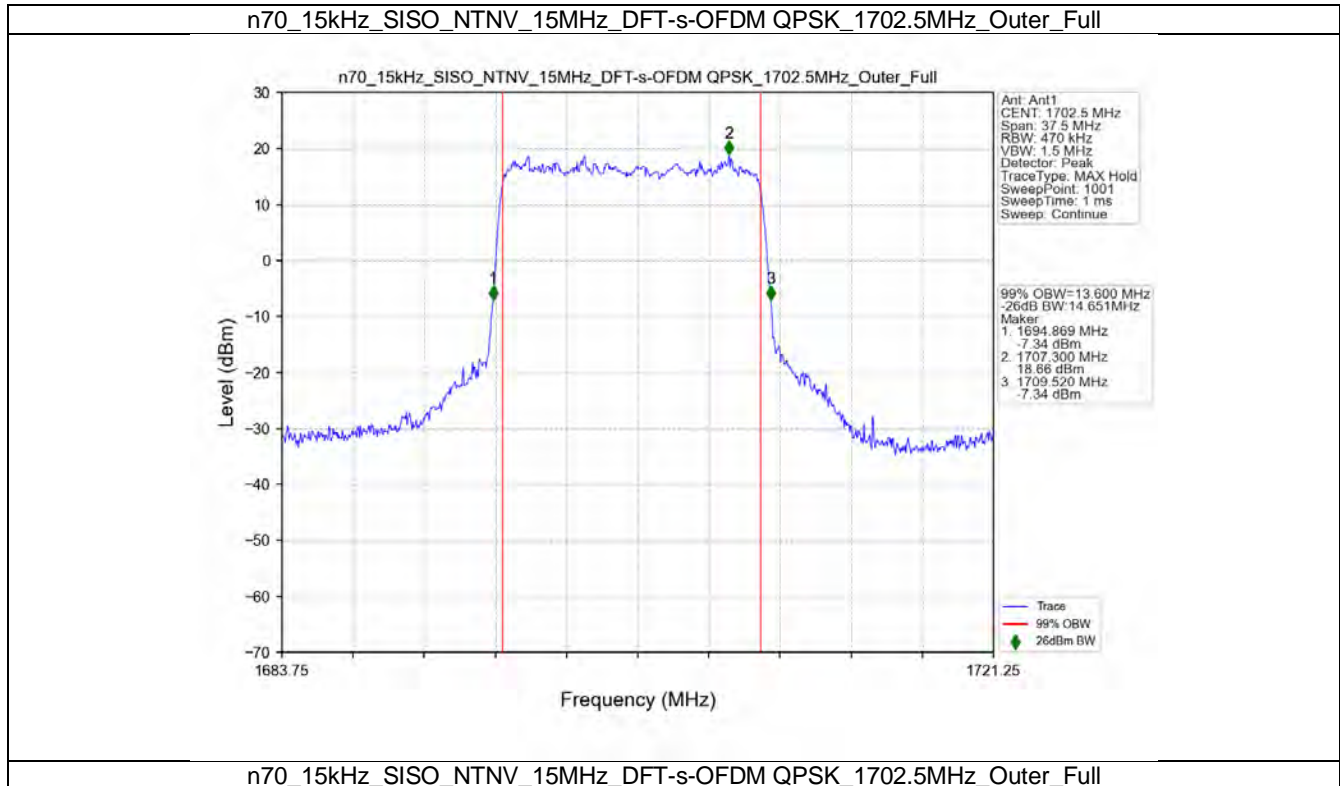


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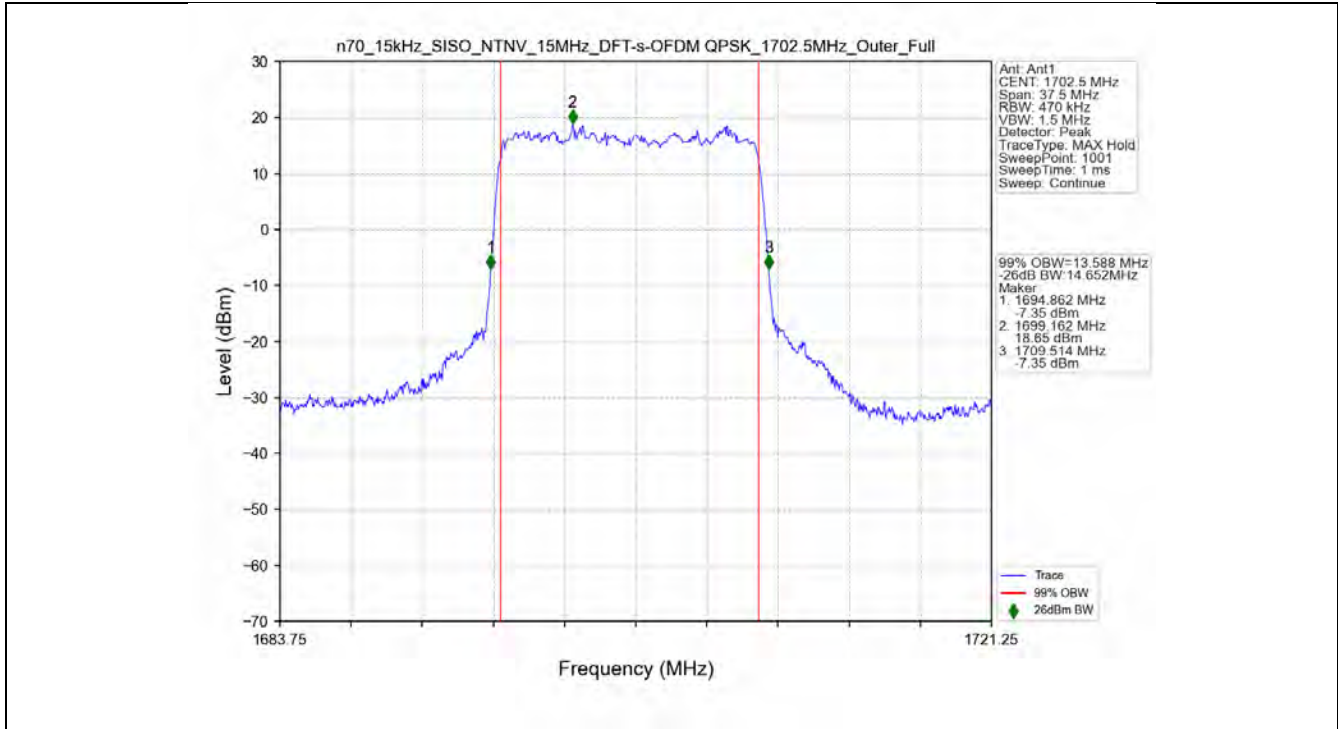


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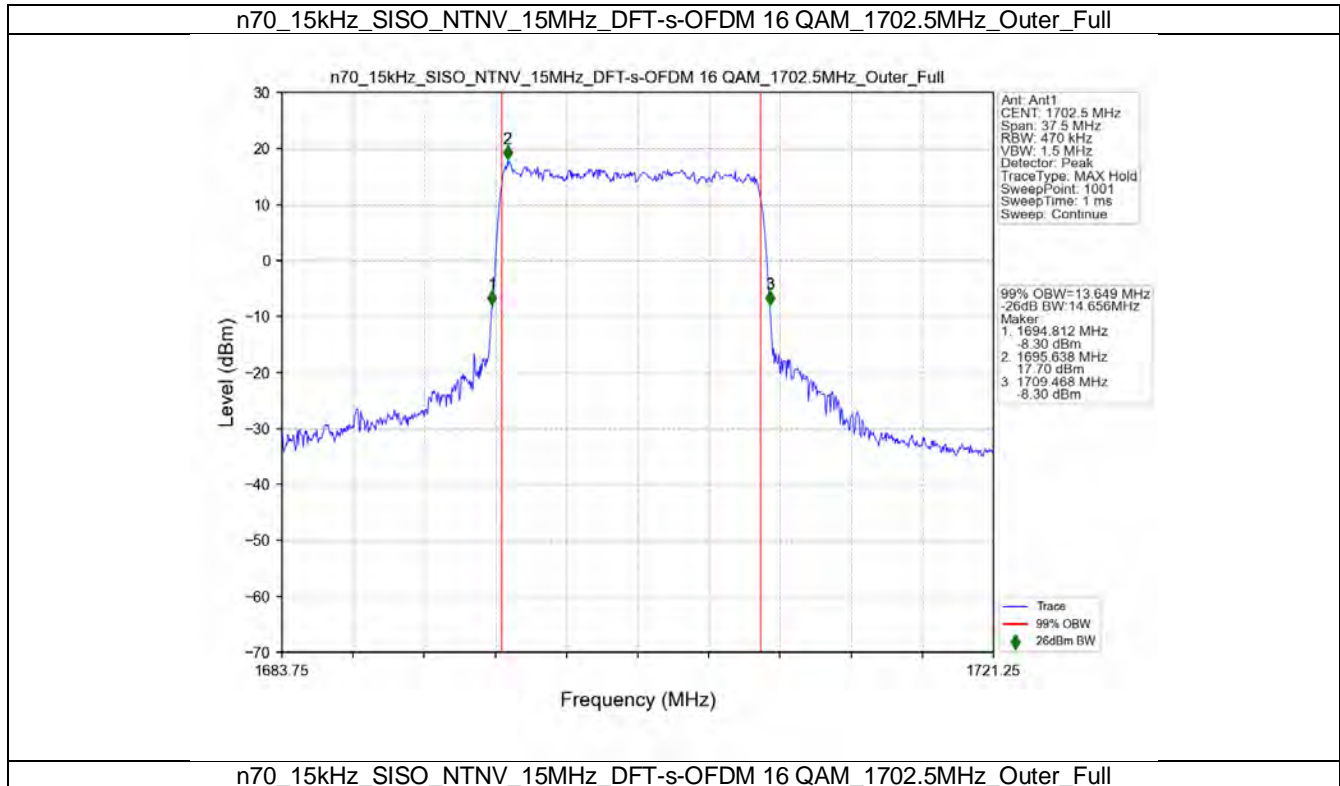


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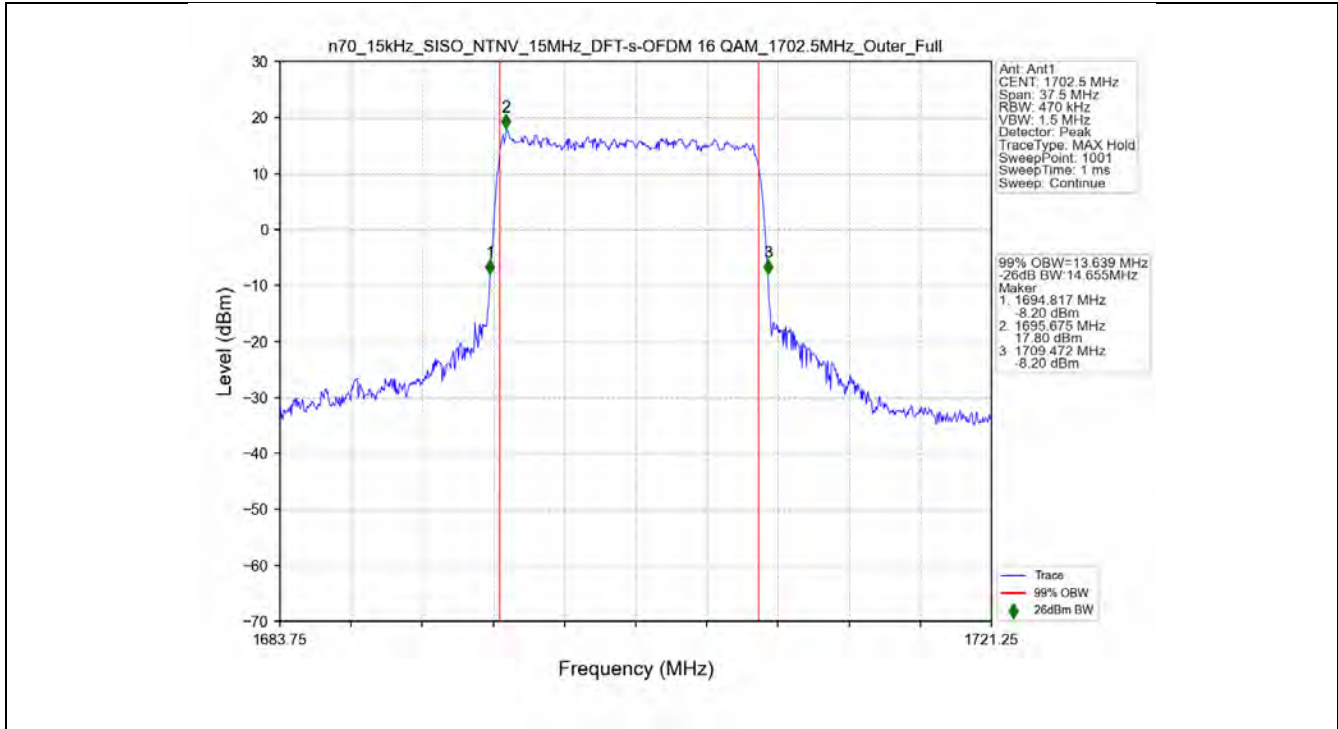


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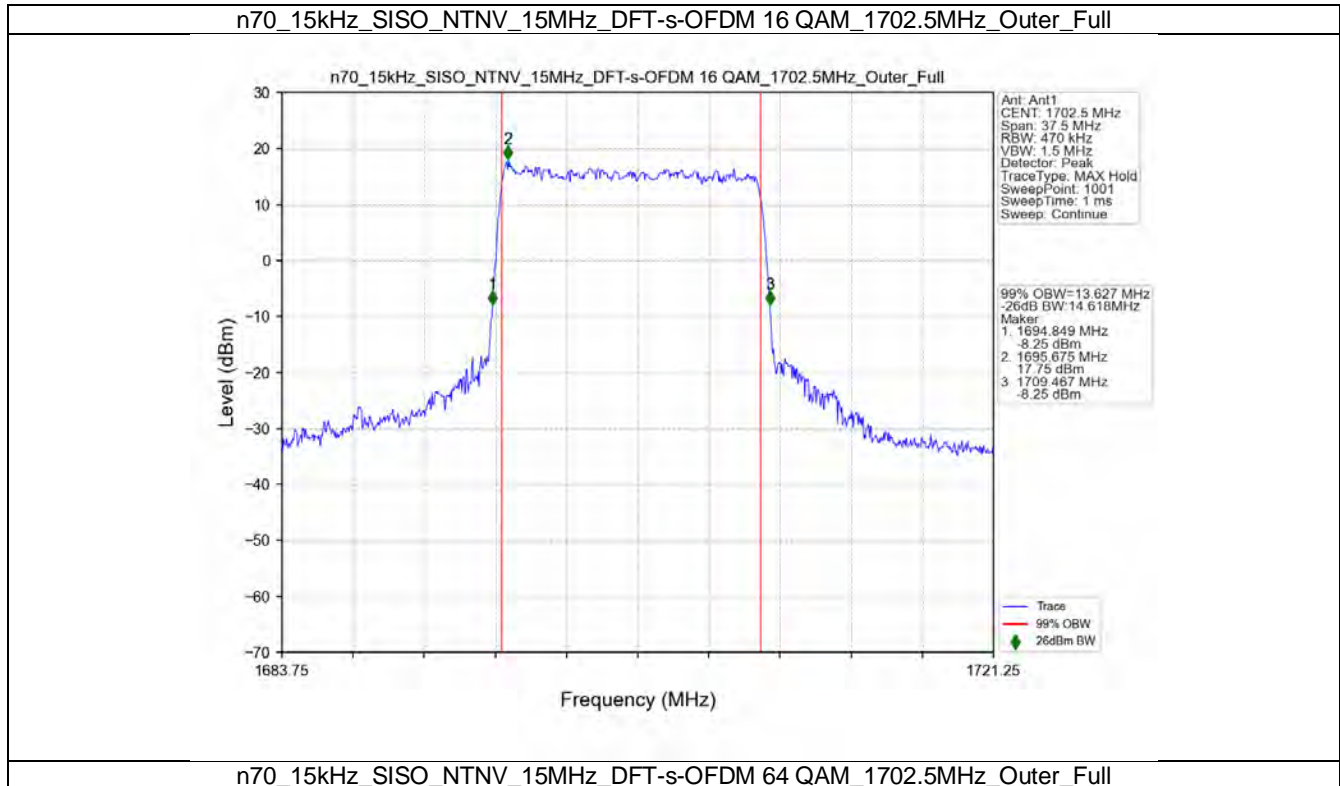


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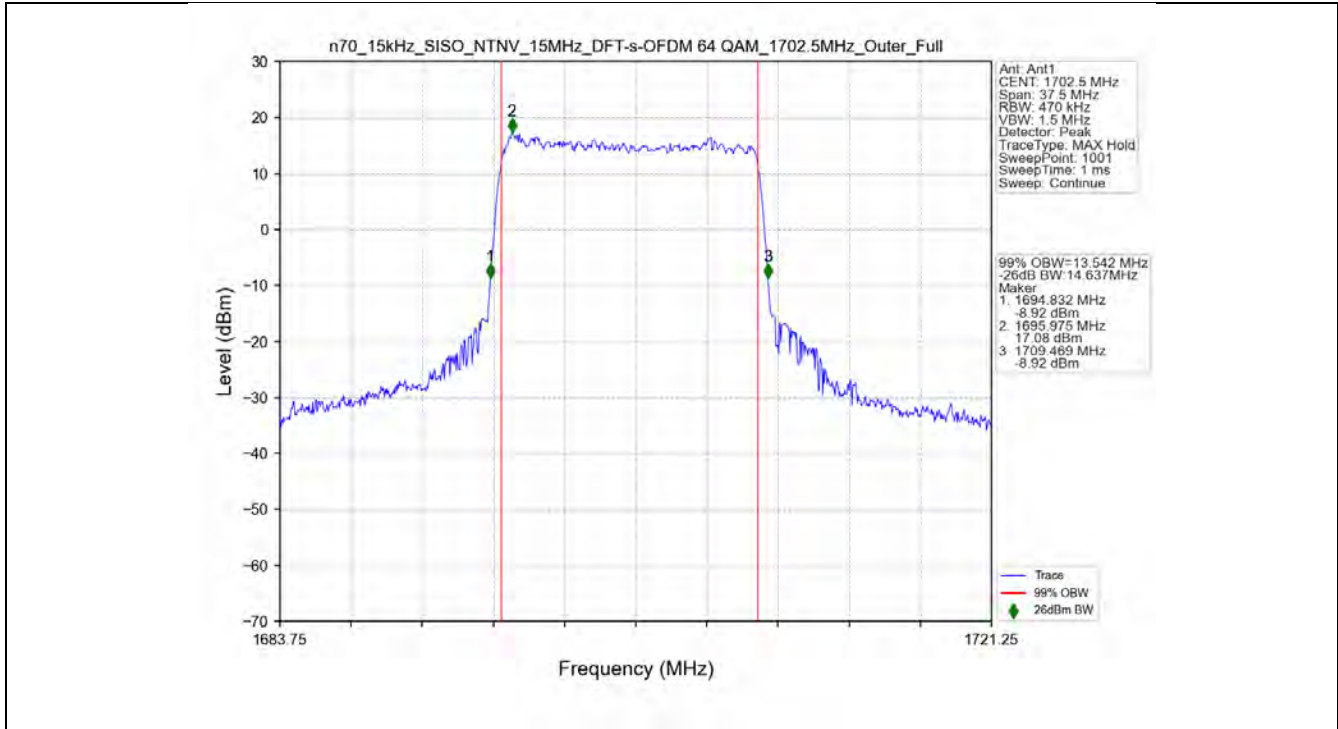


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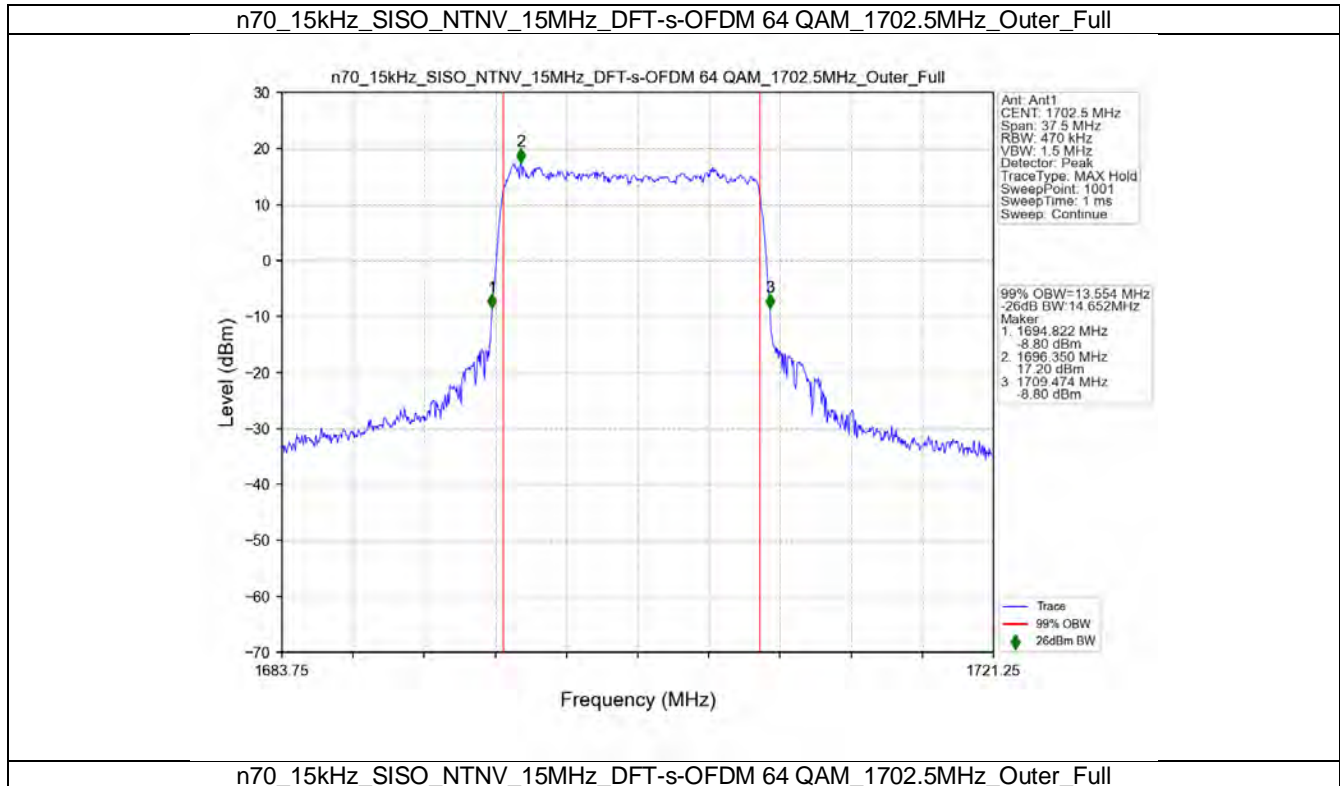


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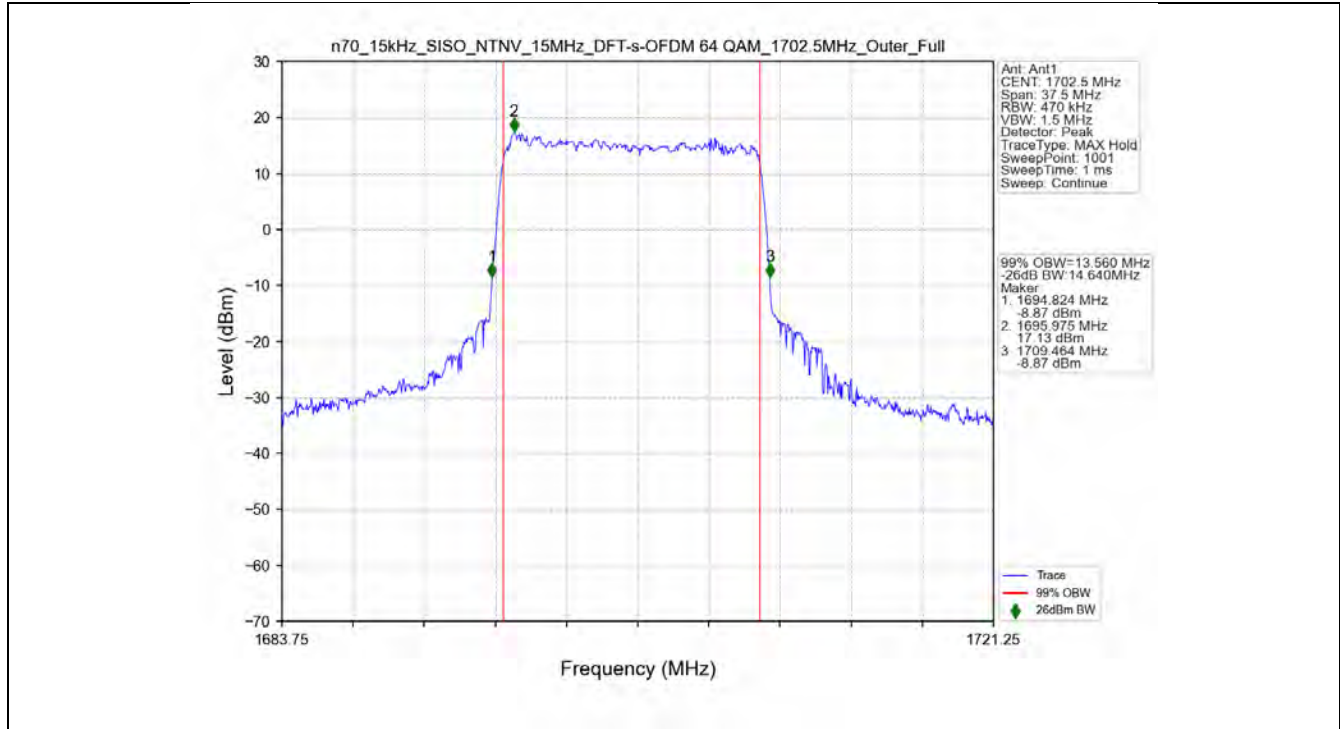


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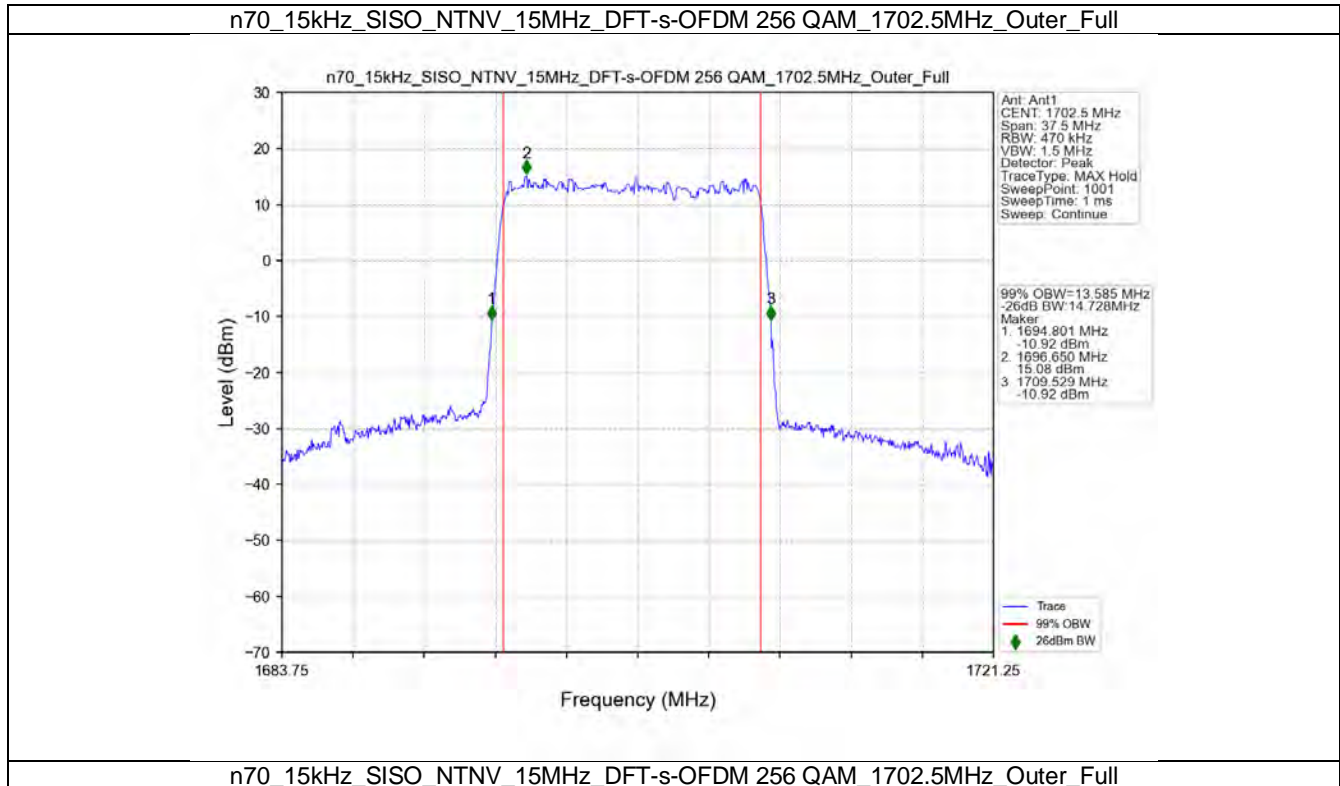


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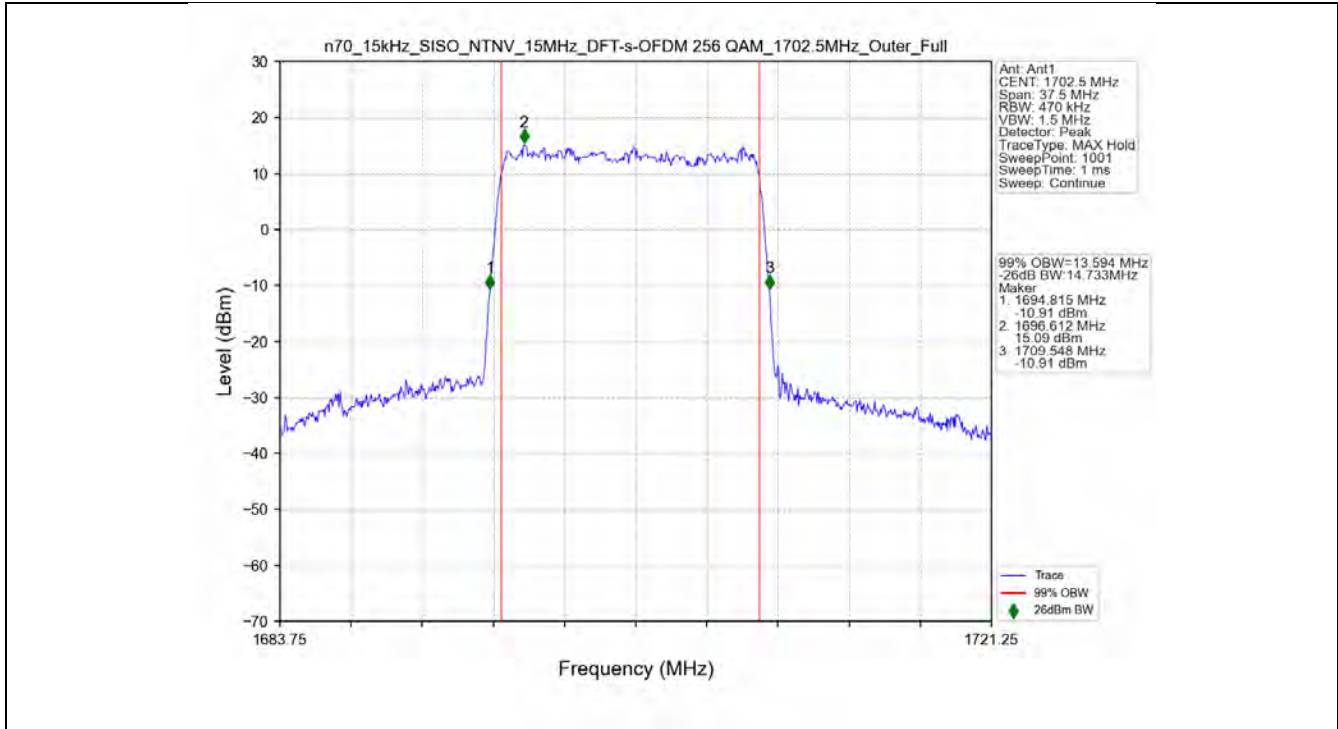


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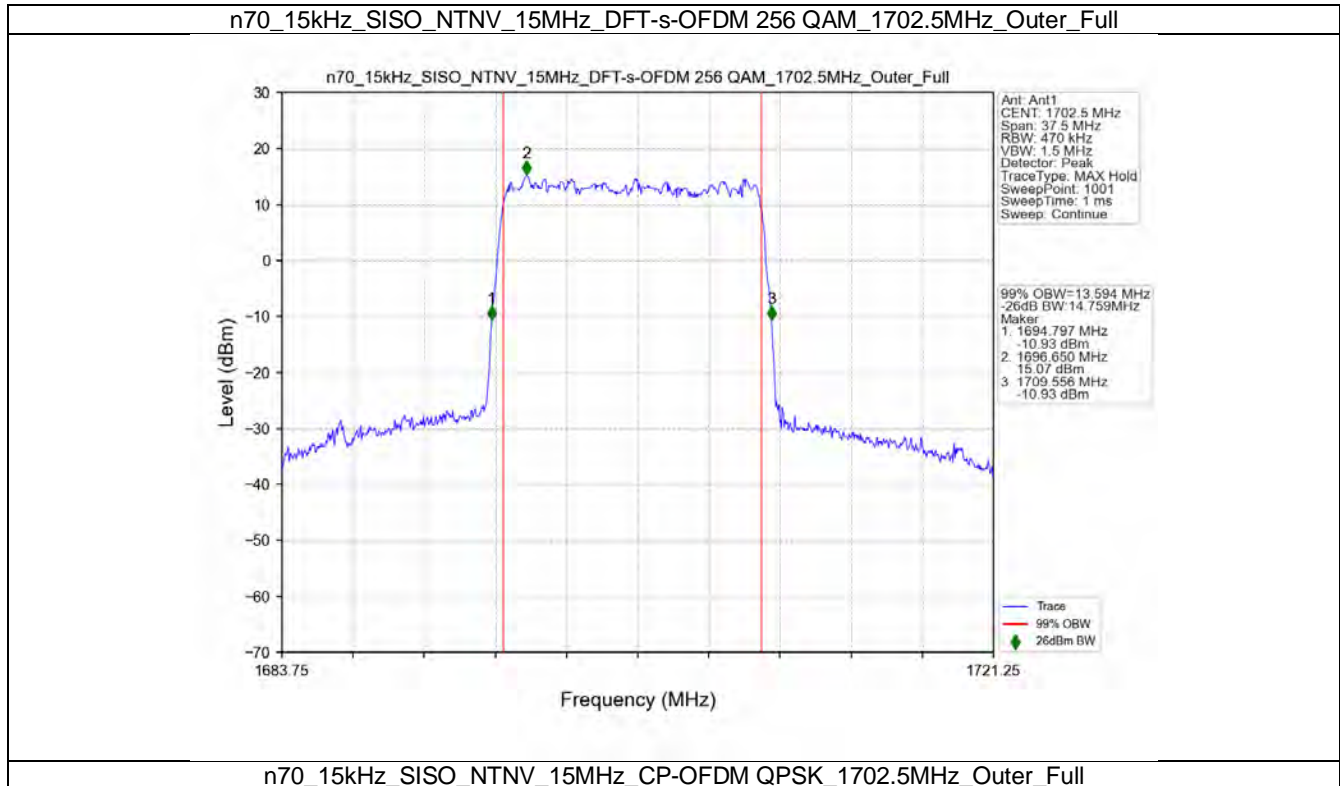


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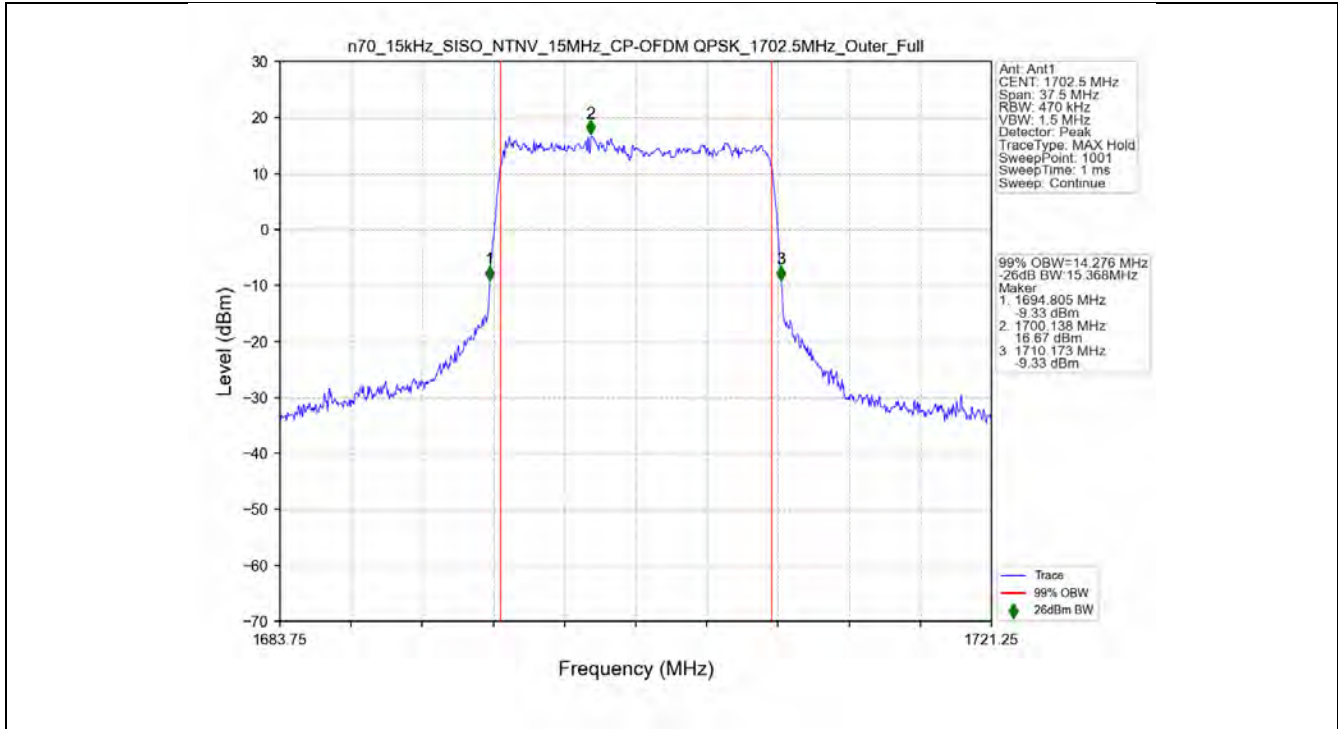


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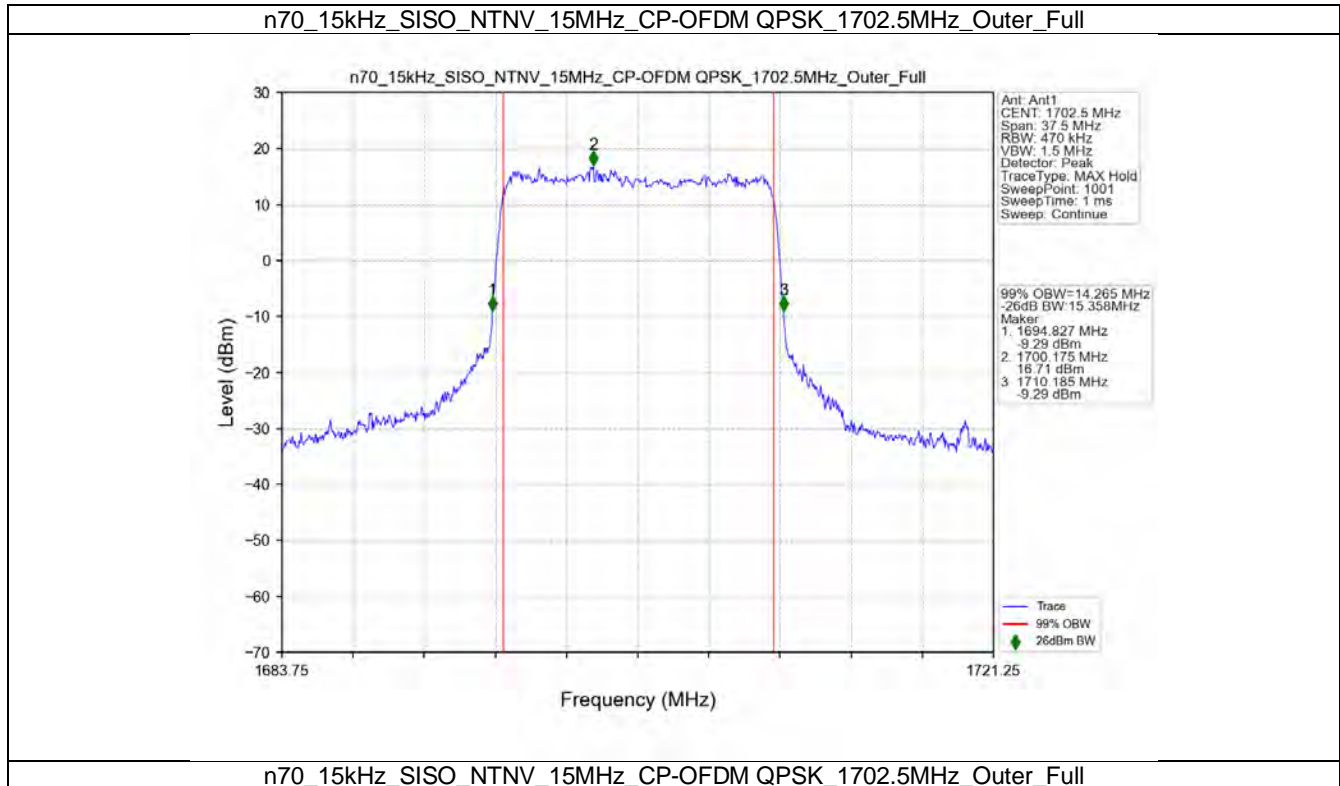


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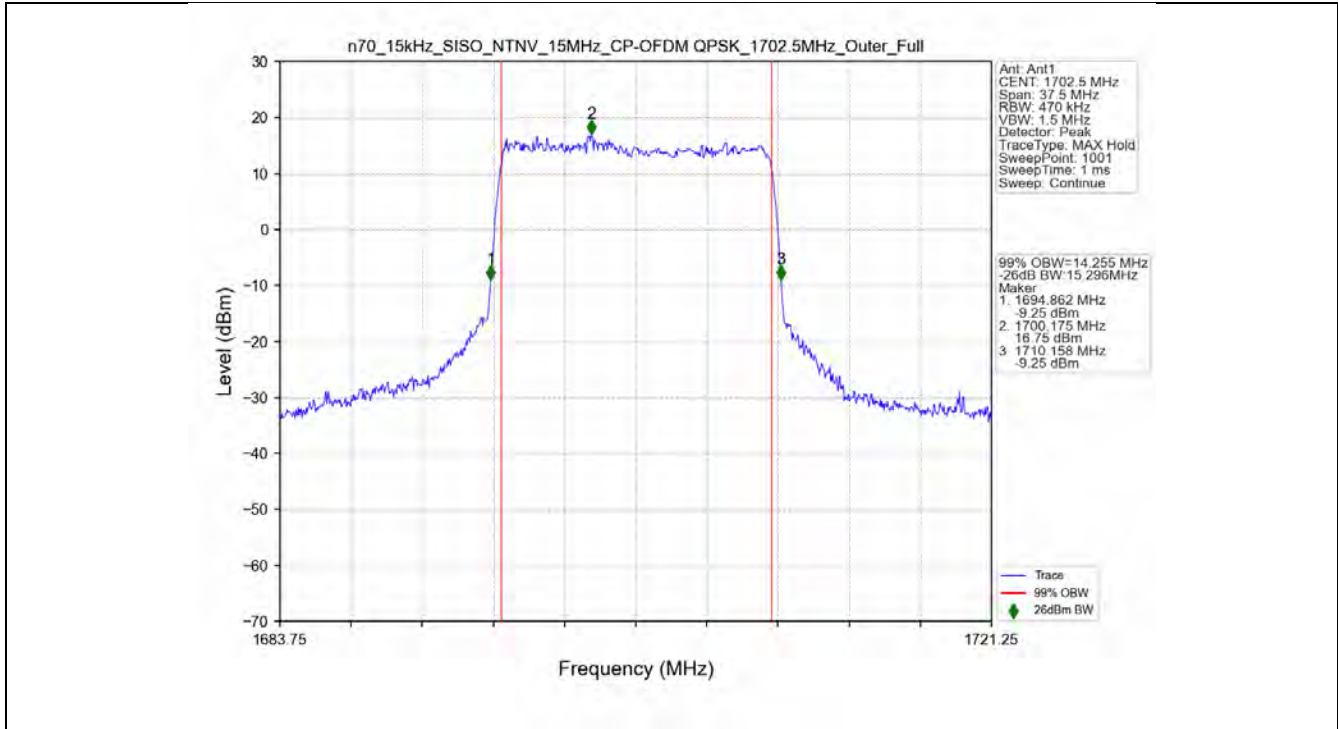


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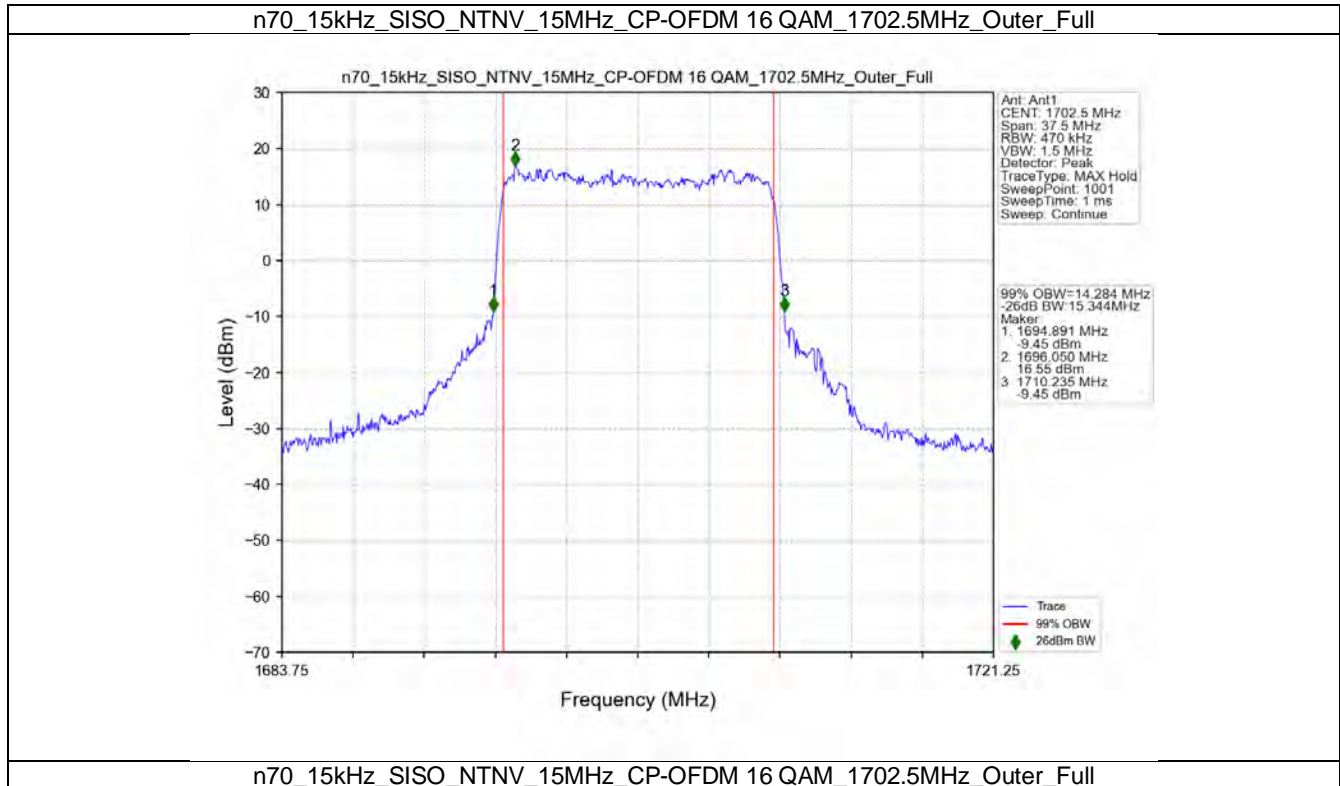


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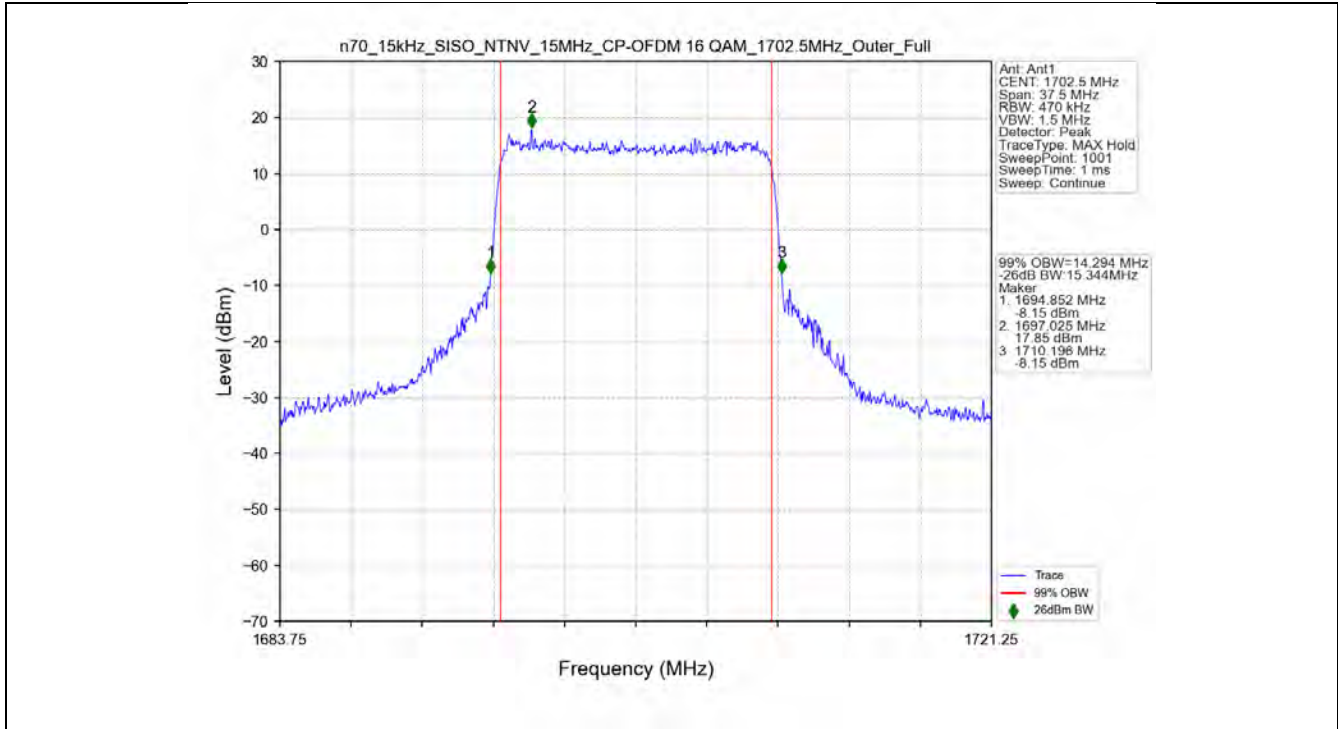


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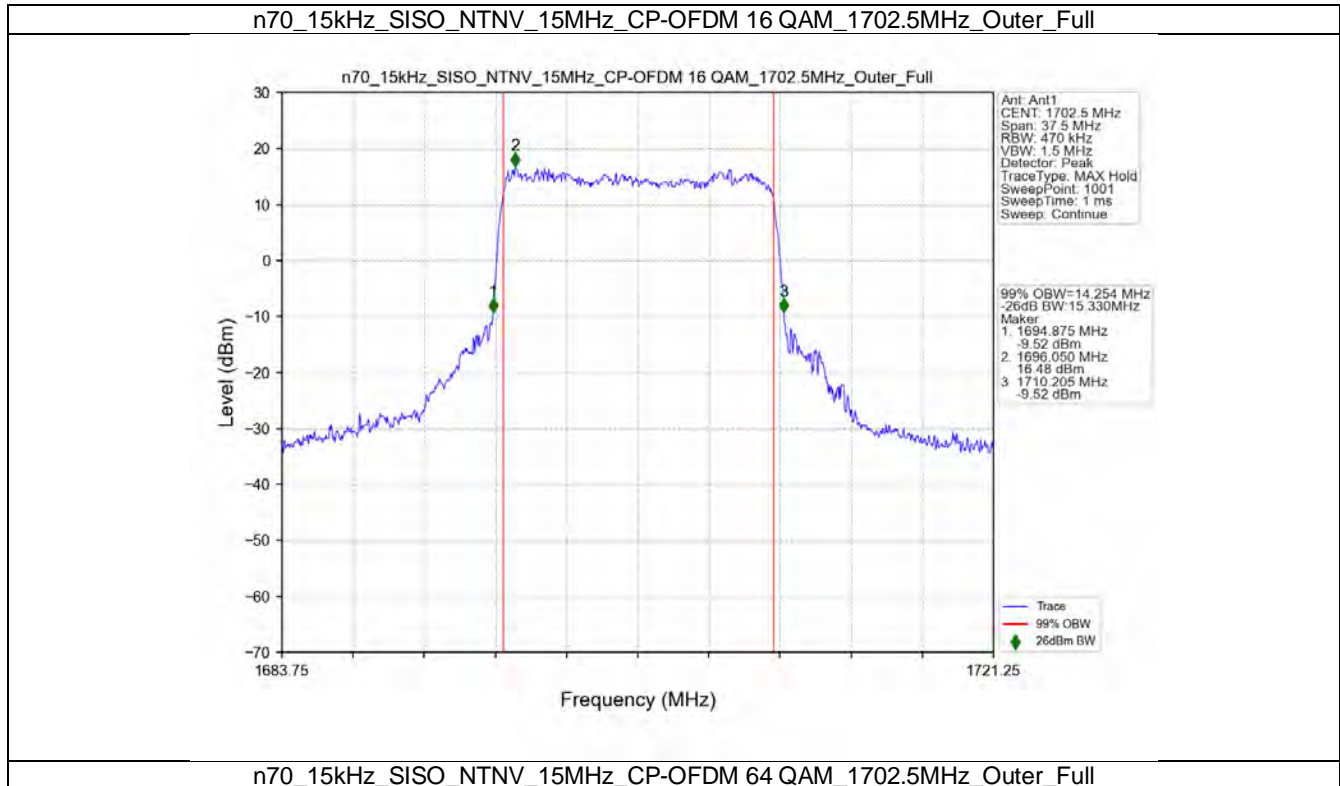


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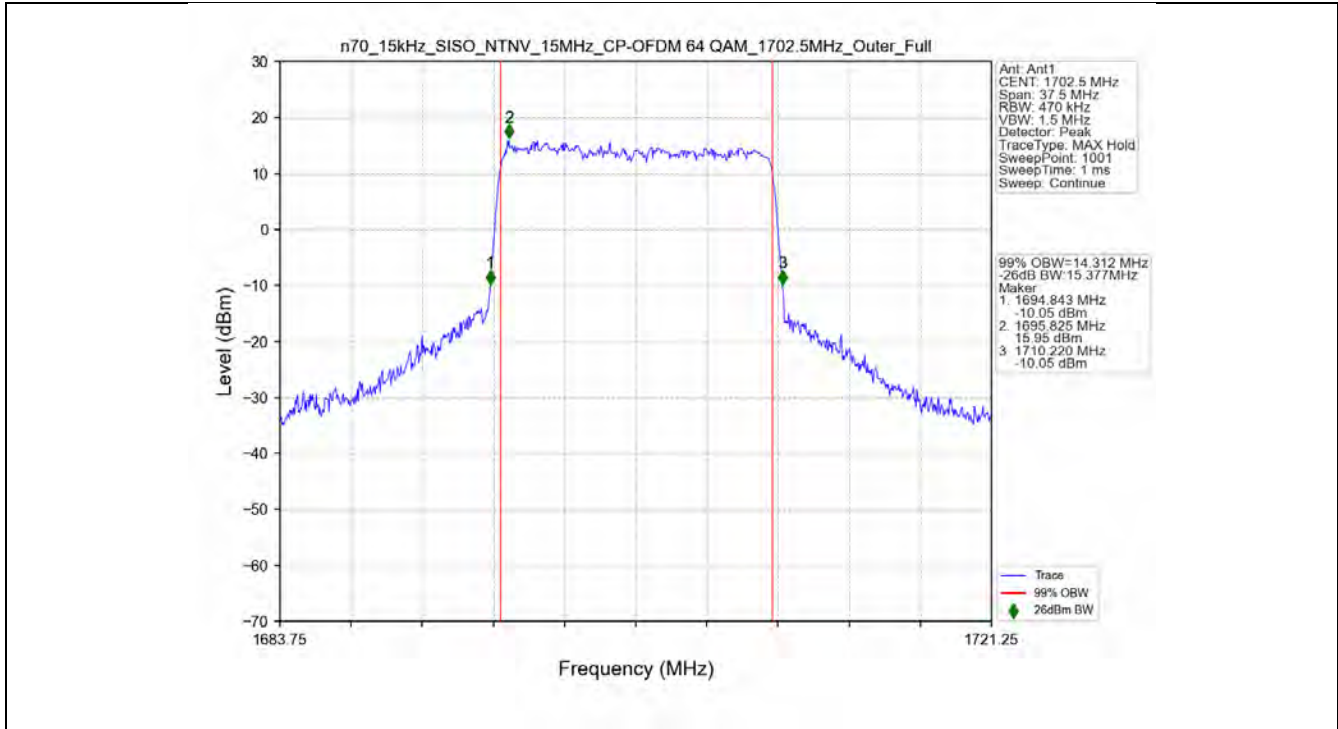


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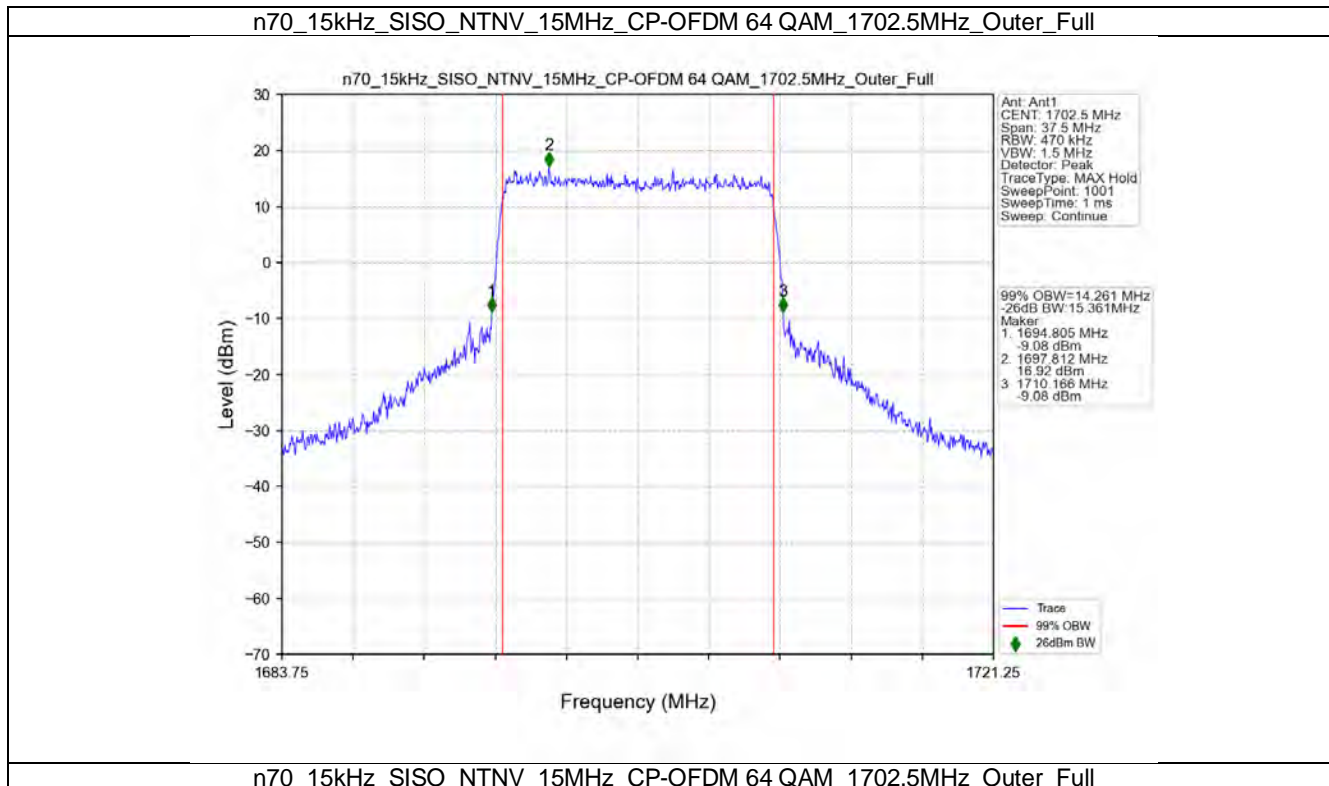
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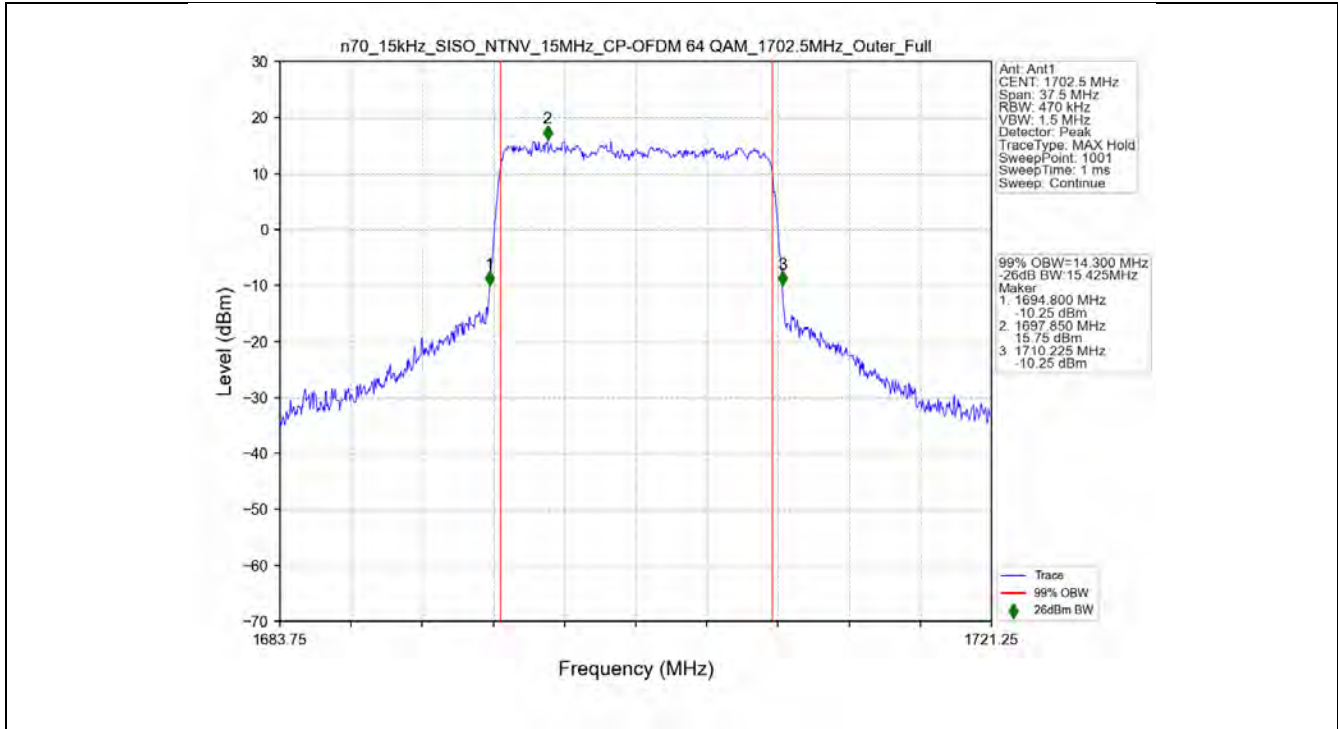


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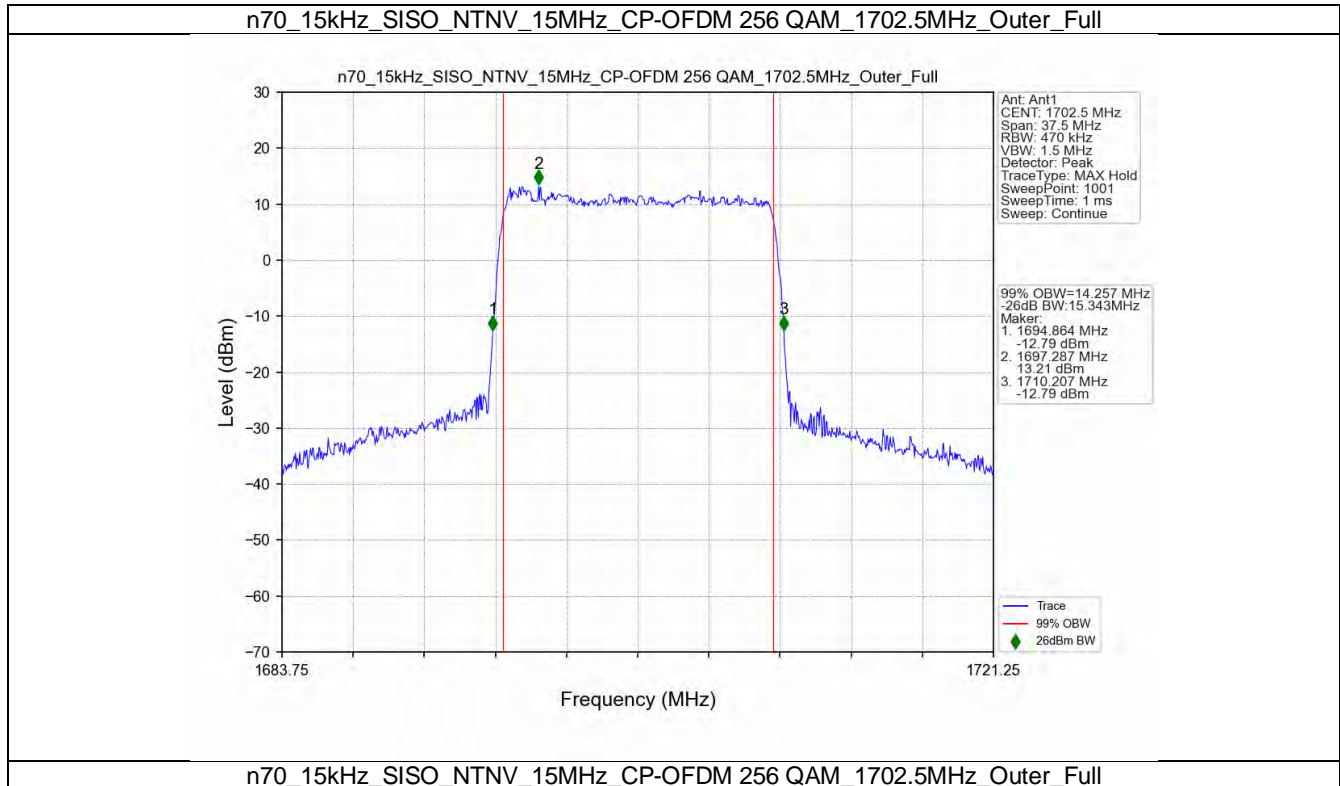


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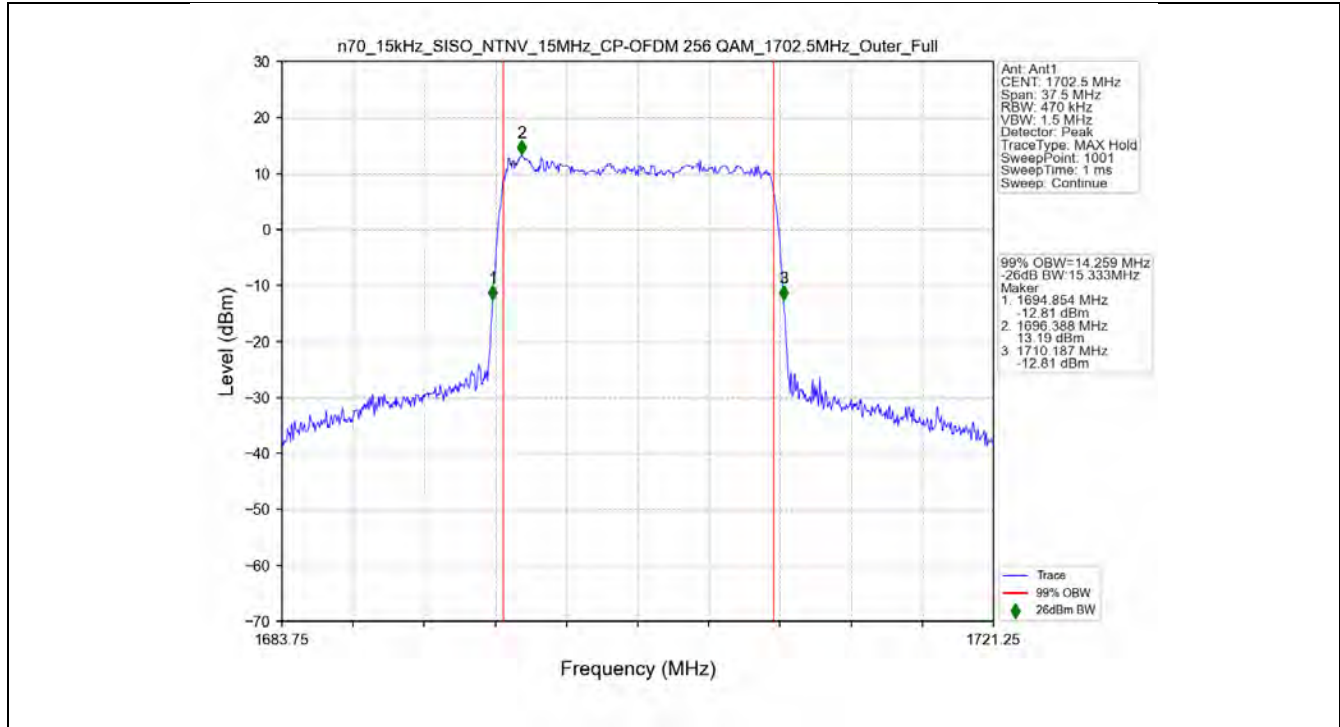


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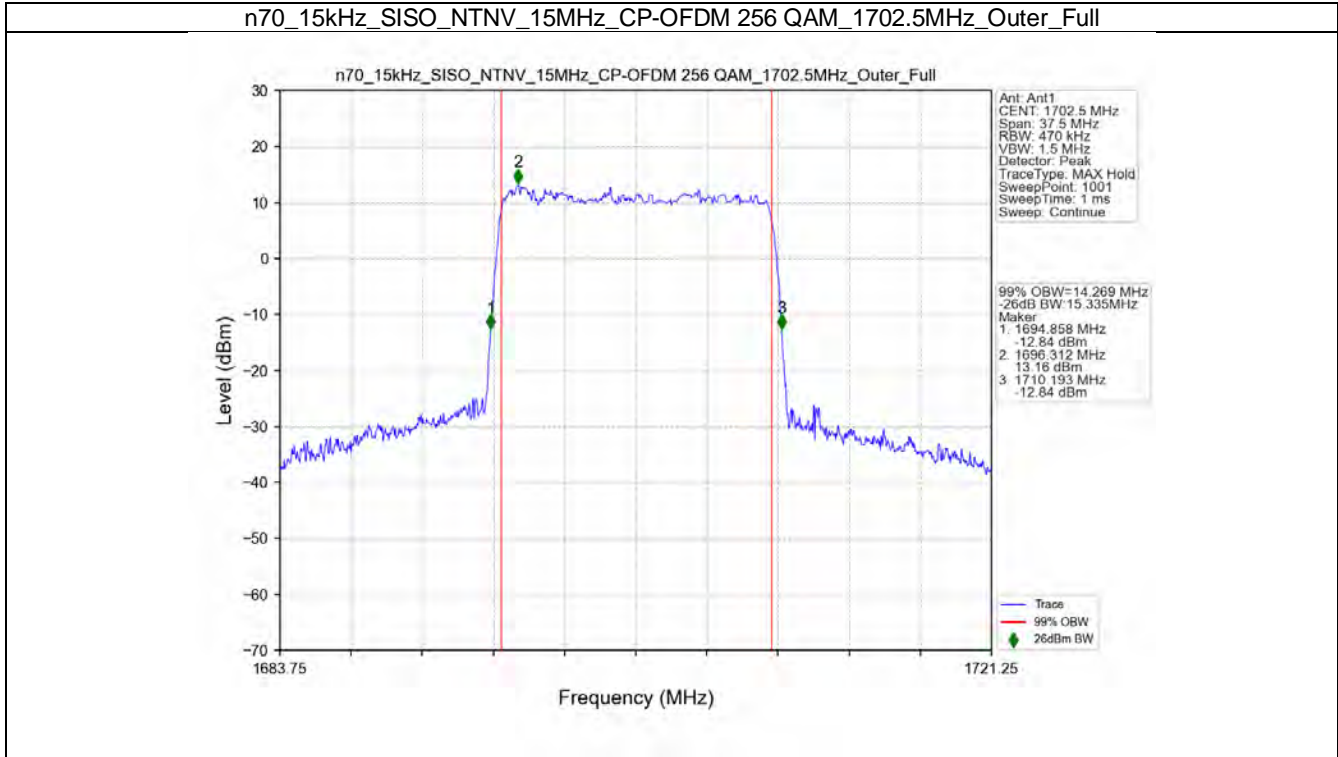


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4. Peak-Average Ratio

4.1 15k_SISO_5MHz_NTNV

4.1.1 Test Result

| 5G NR n70 SCS=15kHz SISO 5MHz NTN | | | | | | | |
|-----------------------------------|-----------------|---------------|-------------------------|------|-----|-------|---------|
| Modulation | Frequency (MHz) | RB Allocation | Peak-Average Ratio (dB) | | | Limit | Verdict |
| | | | Ant1 | Ant2 | Sum | | |
| DFT-s-OFDM PI/2 BPSK | 1697.5 | Outer_Full | 4.36 | / | / | <=13 | Pass |
| | 1702.5 | Outer_Full | 3.92 | / | / | <=13 | Pass |
| | 1707.5 | Outer_Full | 3.92 | / | / | <=13 | Pass |
| DFT-s-OFDM QPSK | 1697.5 | Outer_Full | 5.17 | / | / | <=13 | Pass |
| | 1702.5 | Outer_Full | 4.48 | / | / | <=13 | Pass |
| | 1707.5 | Outer_Full | 5.32 | / | / | <=13 | Pass |
| DFT-s-OFDM 16 QAM | 1697.5 | Outer_Full | 6.22 | / | / | <=13 | Pass |
| | 1702.5 | Outer_Full | 5.68 | / | / | <=13 | Pass |
| | 1707.5 | Outer_Full | 6.43 | / | / | <=13 | Pass |
| DFT-s-OFDM 64 QAM | 1697.5 | Outer_Full | 6.54 | / | / | <=13 | Pass |
| | 1702.5 | Outer_Full | 6.13 | / | / | <=13 | Pass |
| | 1707.5 | Outer_Full | 6.54 | / | / | <=13 | Pass |
| DFT-s-OFDM 256 QAM | 1697.5 | Outer_Full | 6.50 | / | / | <=13 | Pass |
| | 1702.5 | Outer_Full | 6.43 | / | / | <=13 | Pass |
| | 1707.5 | Outer_Full | 6.53 | / | / | <=13 | Pass |
| CP-OFDM QPSK | 1697.5 | Outer_Full | 7.41 | / | / | <=13 | Pass |
| | 1702.5 | Outer_Full | 6.60 | / | / | <=13 | Pass |
| | 1707.5 | Outer_Full | 6.57 | / | / | <=13 | Pass |
| CP-OFDM 16 QAM | 1697.5 | Outer_Full | 7.51 | / | / | <=13 | Pass |
| | 1702.5 | Outer_Full | 6.74 | / | / | <=13 | Pass |
| | 1707.5 | Outer_Full | 6.75 | / | / | <=13 | Pass |
| CP-OFDM 64 QAM | 1697.5 | Outer_Full | 8.00 | / | / | <=13 | Pass |
| | 1702.5 | Outer_Full | 7.24 | / | / | <=13 | Pass |
| | 1707.5 | Outer_Full | 7.24 | / | / | <=13 | Pass |
| CP-OFDM 256 QAM | 1697.5 | Outer_Full | 8.51 | / | / | <=13 | Pass |
| | 1702.5 | Outer_Full | 8.52 | / | / | <=13 | Pass |
| | 1707.5 | Outer_Full | 8.53 | / | / | <=13 | Pass |



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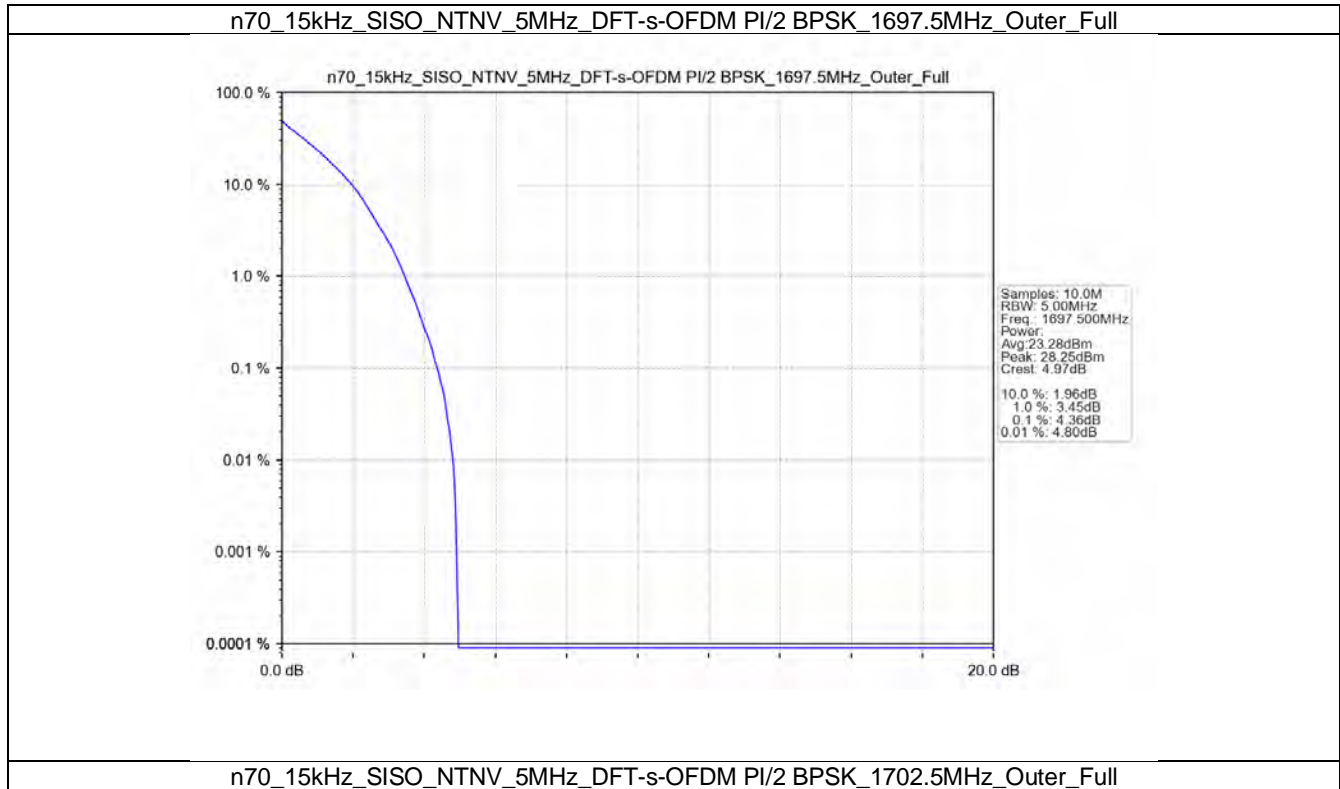
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4.1.2 Test Graph



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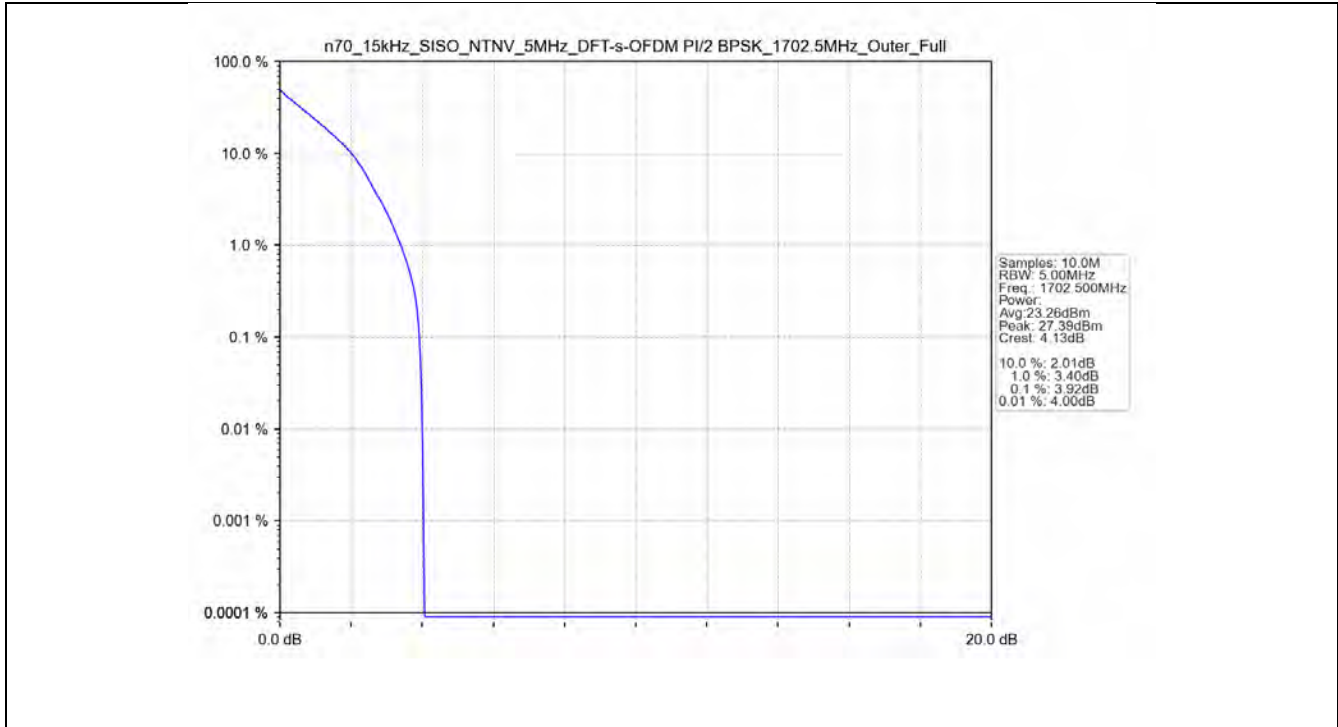


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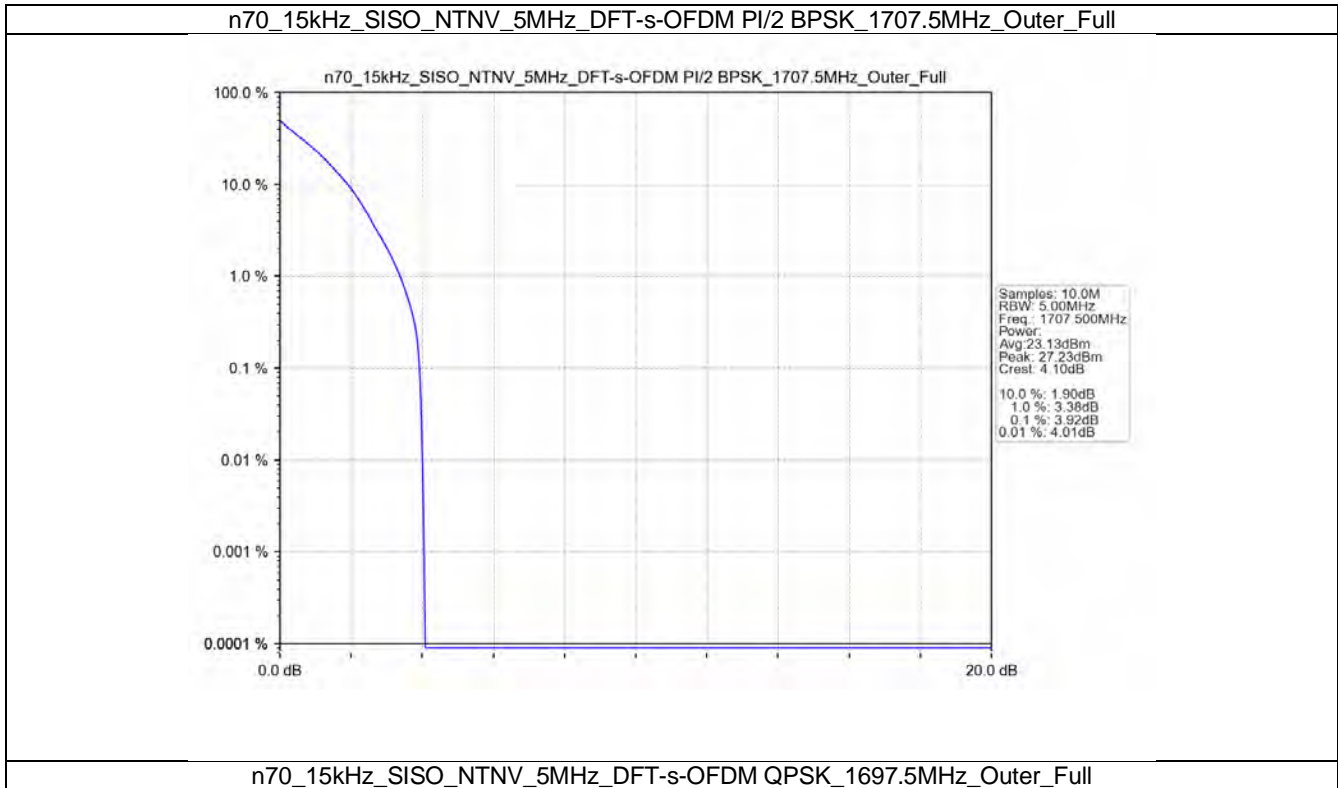


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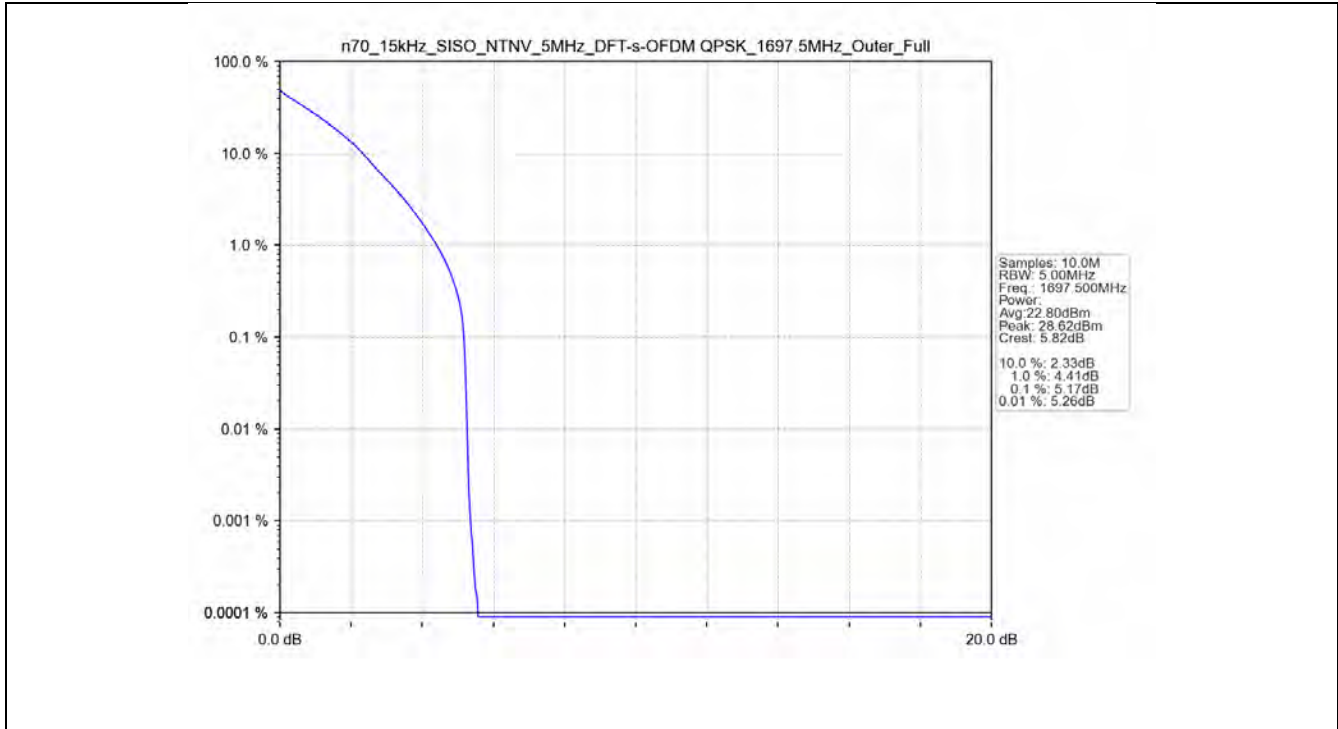


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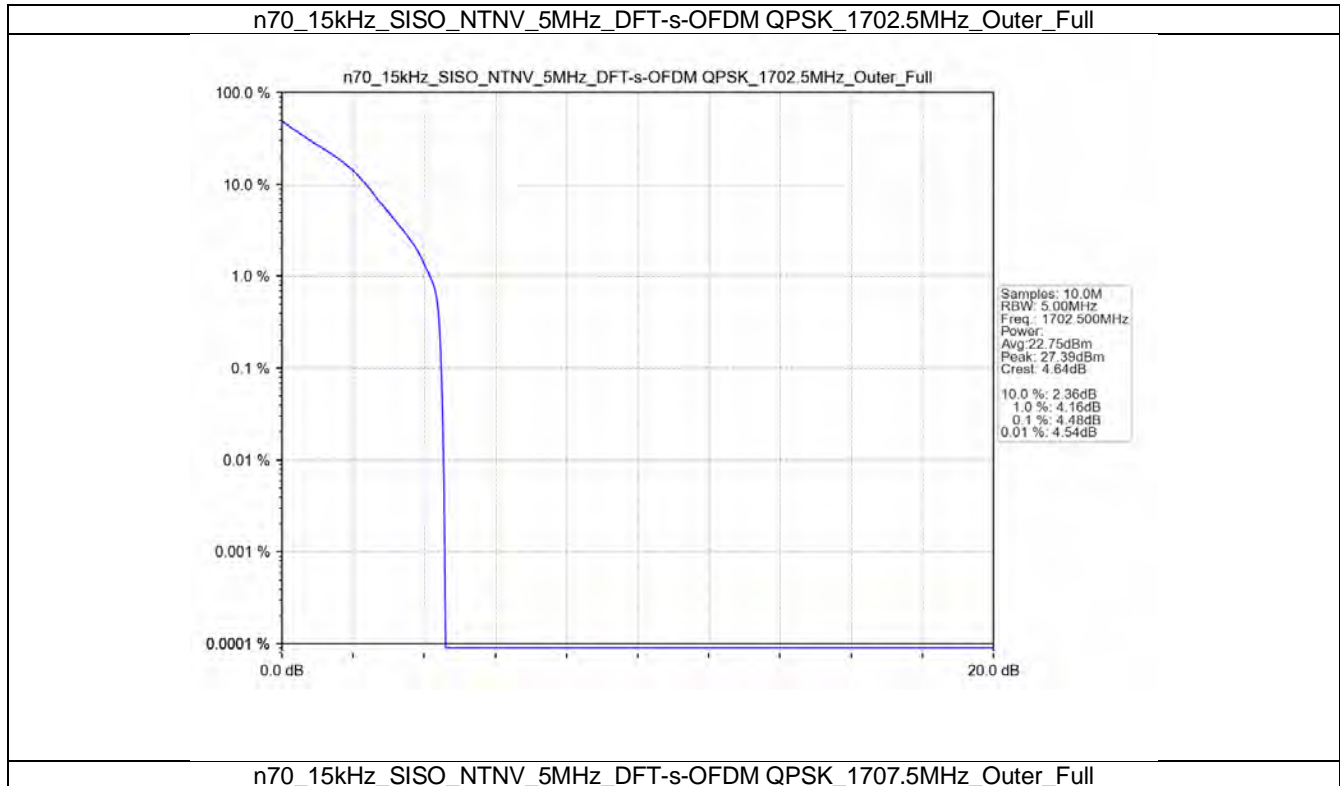


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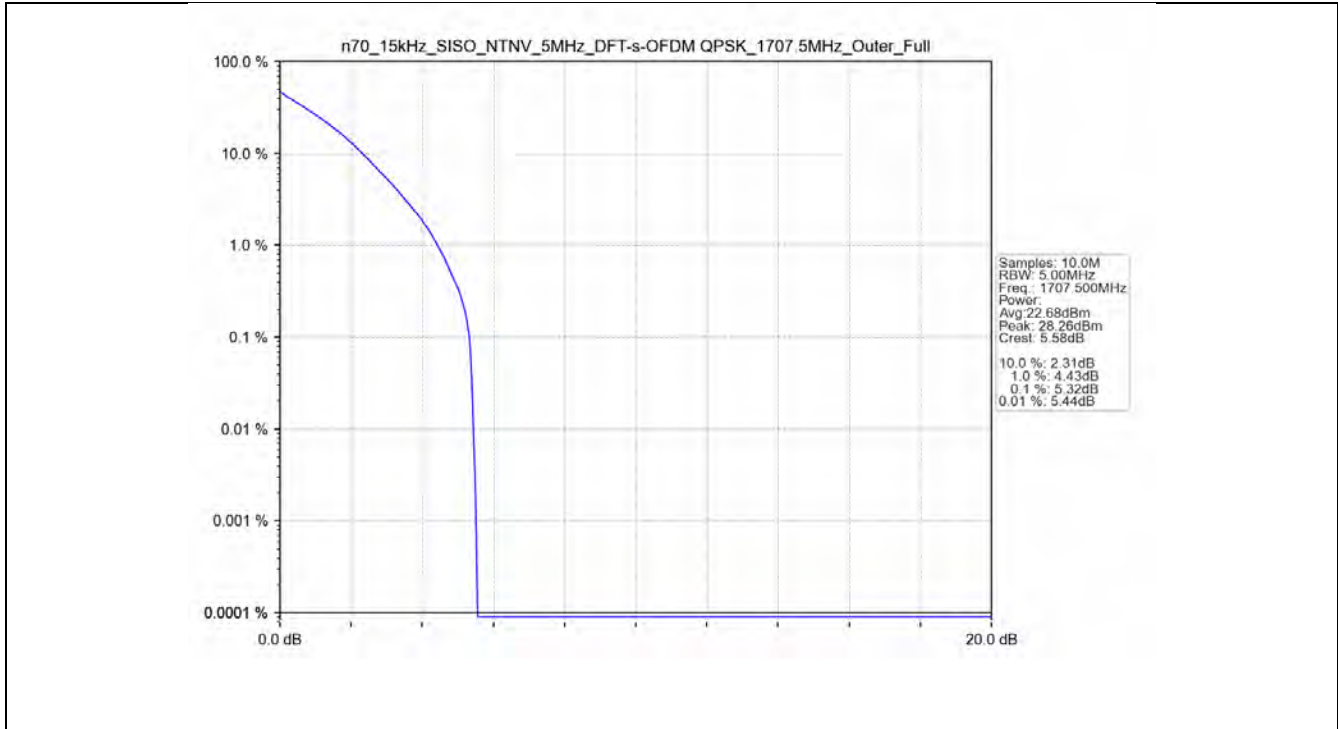


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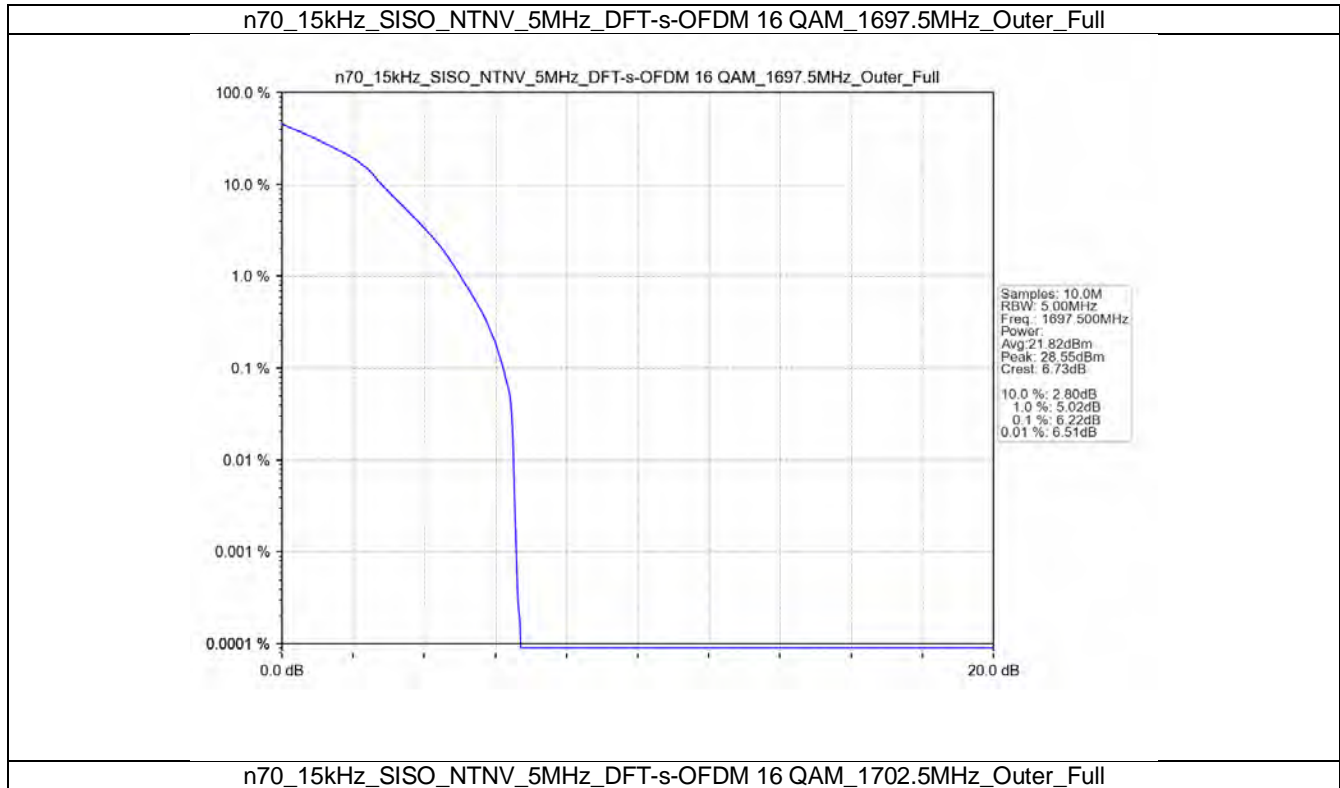


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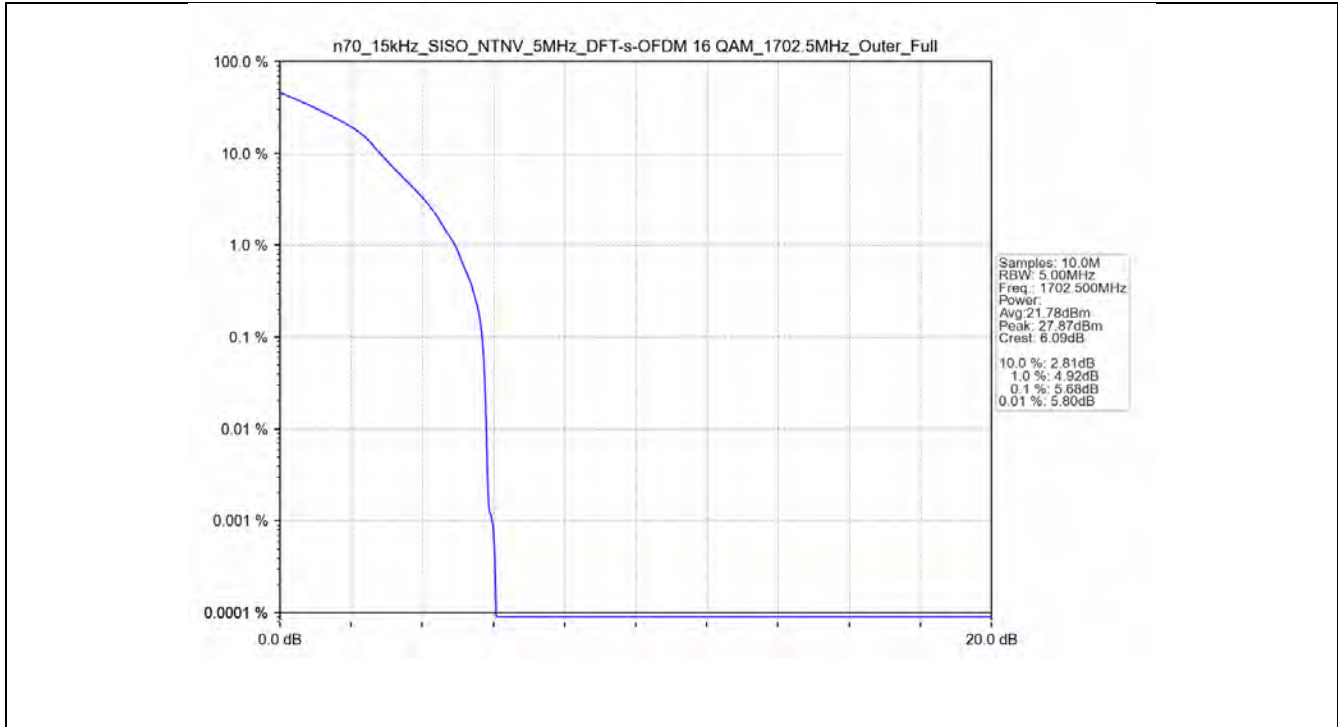


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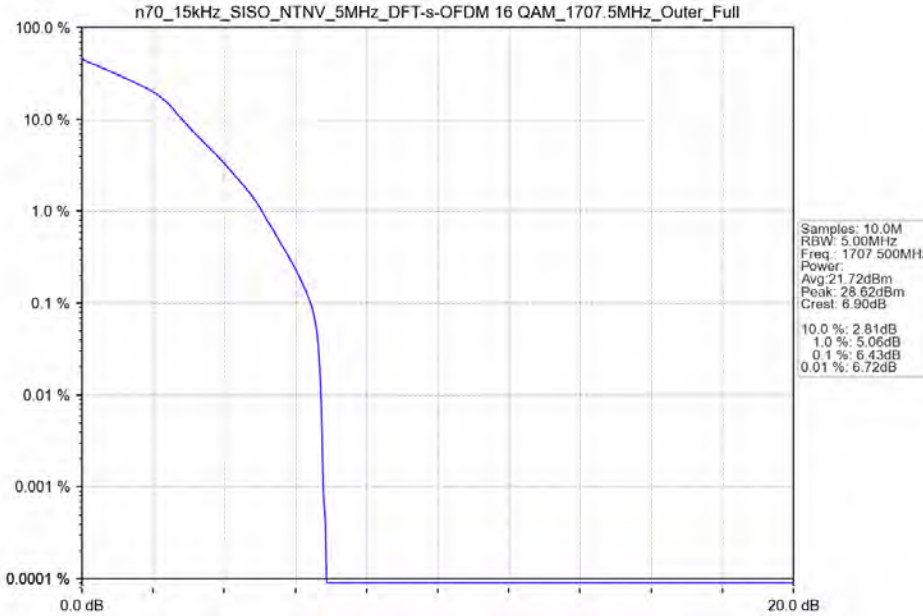
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n70_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM 16 QAM_1707.5MHz_Outer_Full



n70_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM 64 QAM_1697.5MHz_Outer_Full



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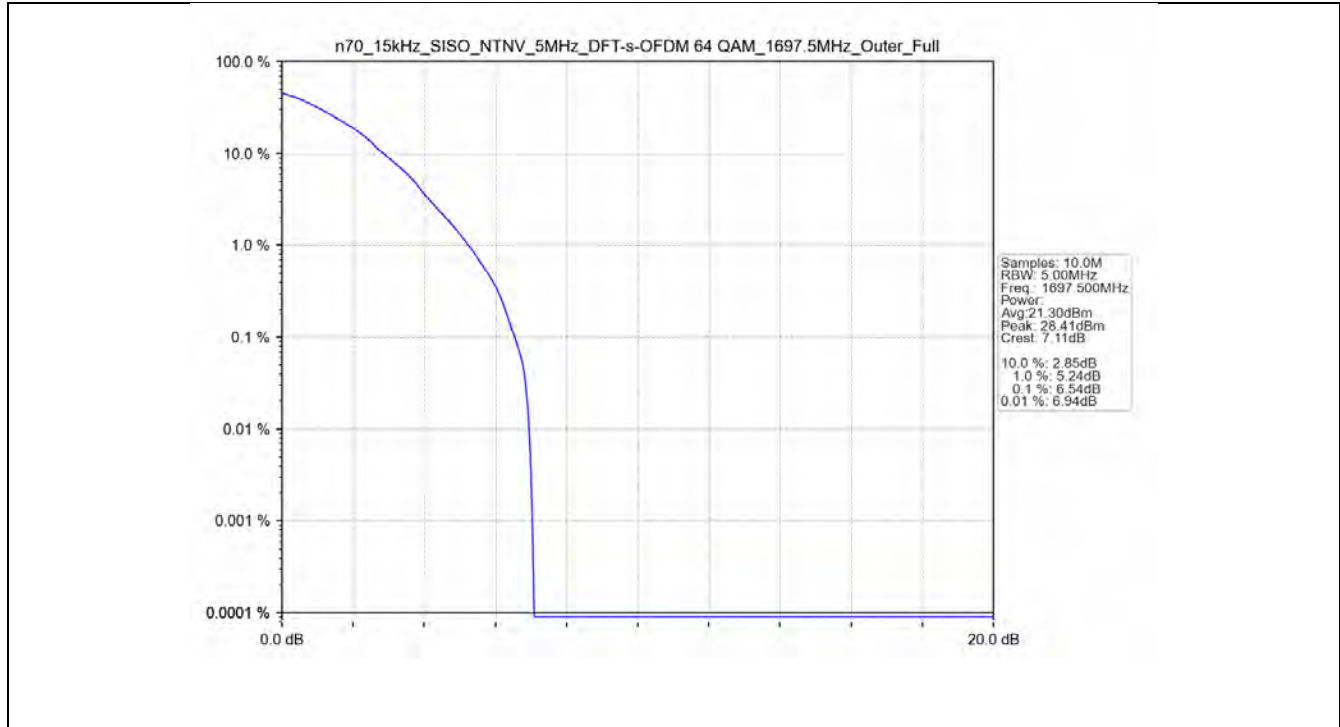


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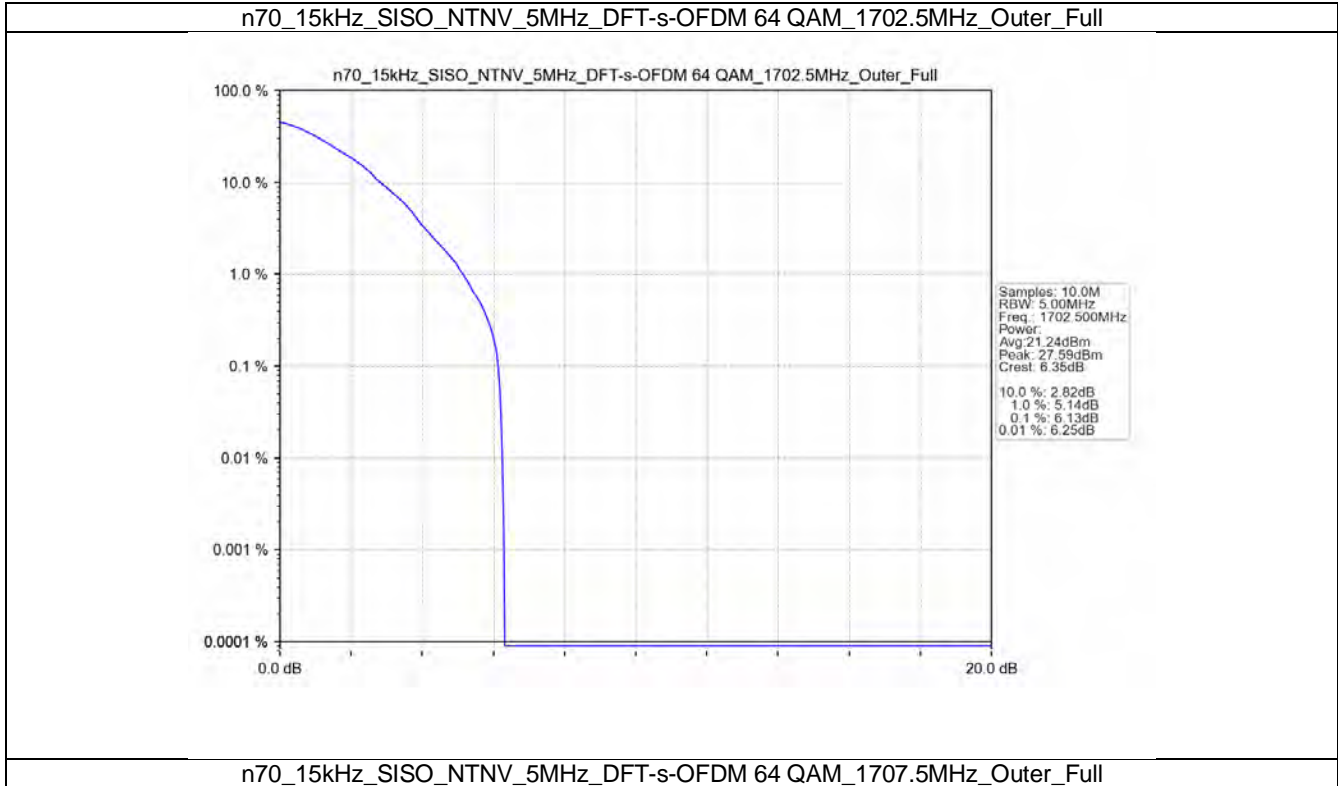


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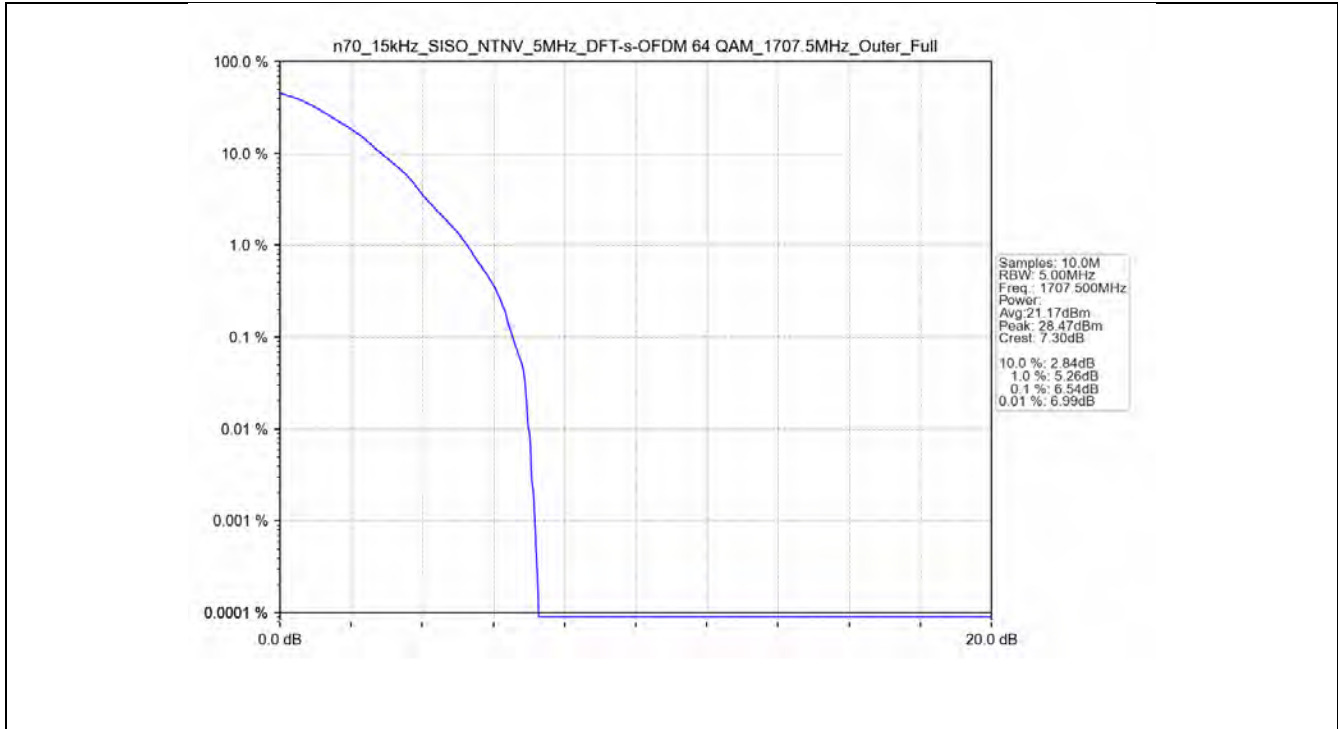


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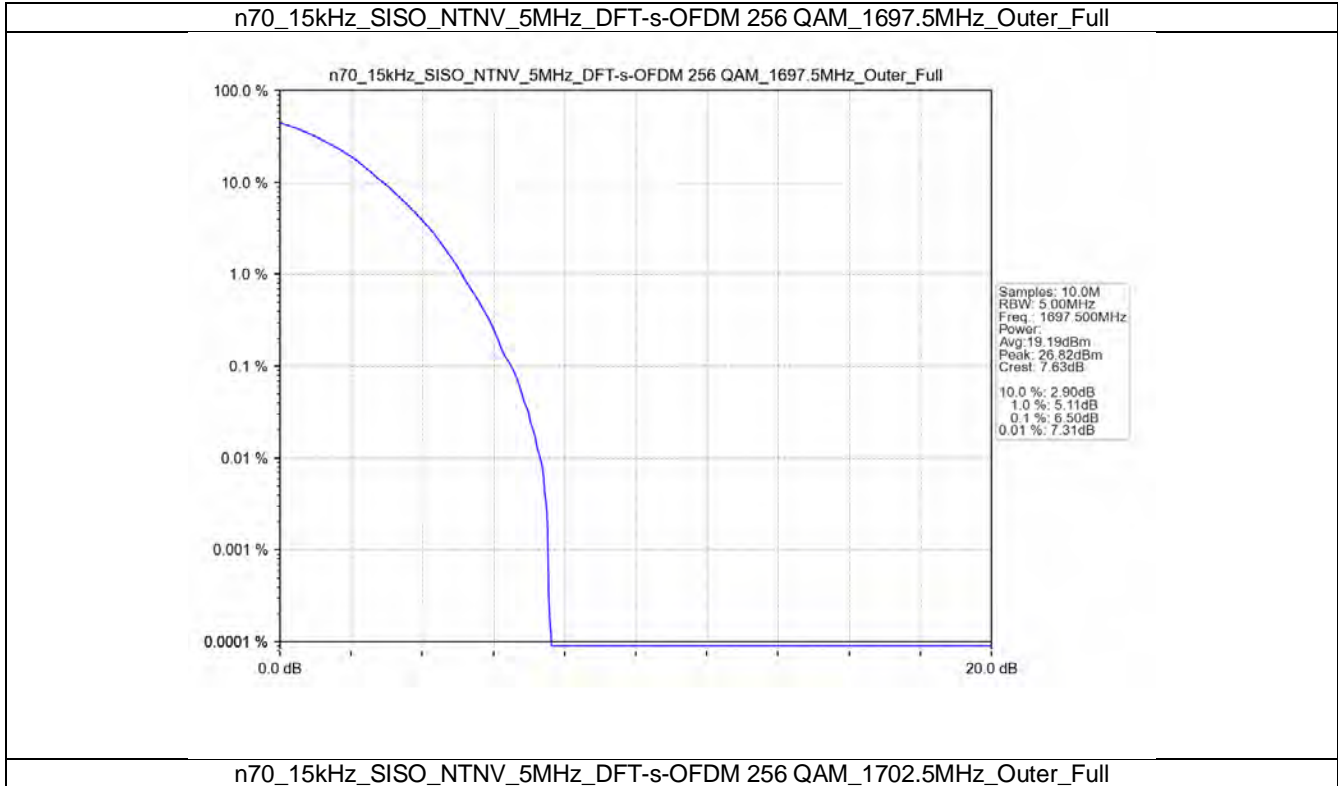


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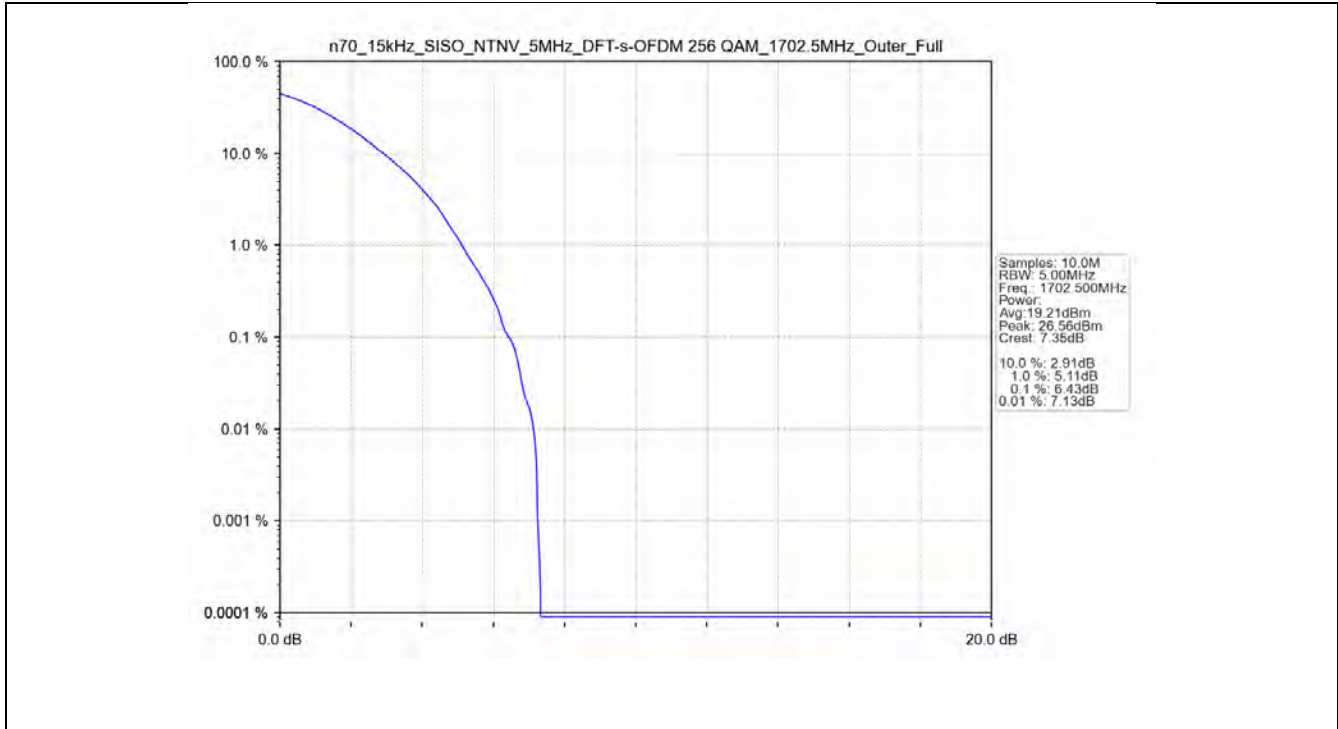


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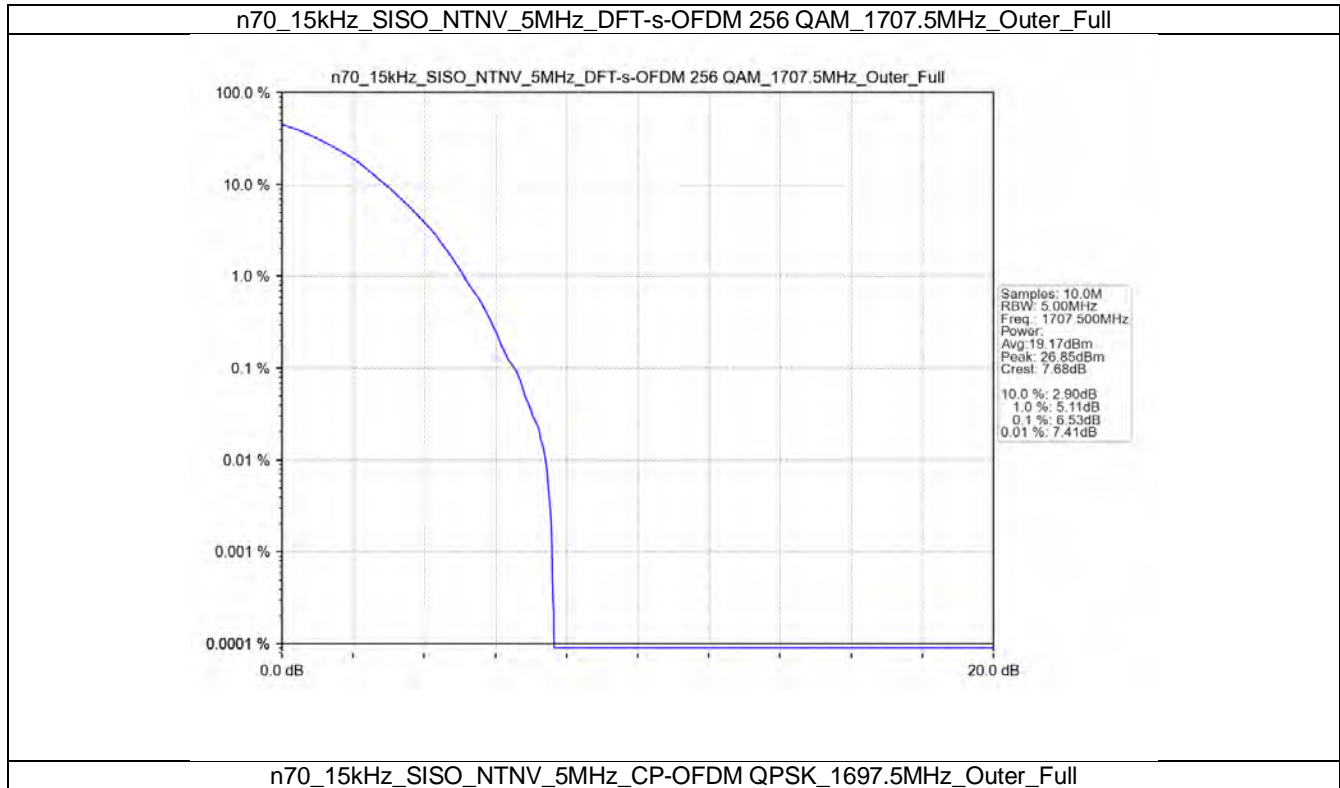


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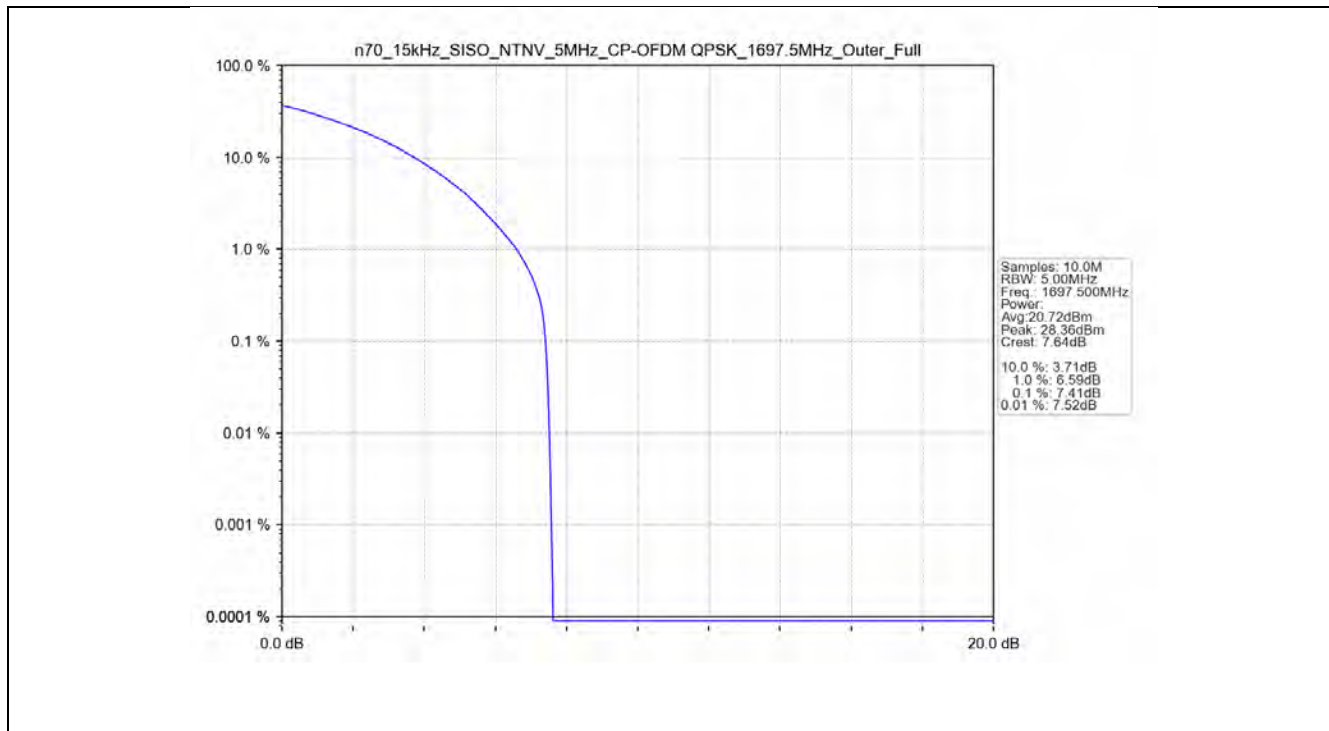
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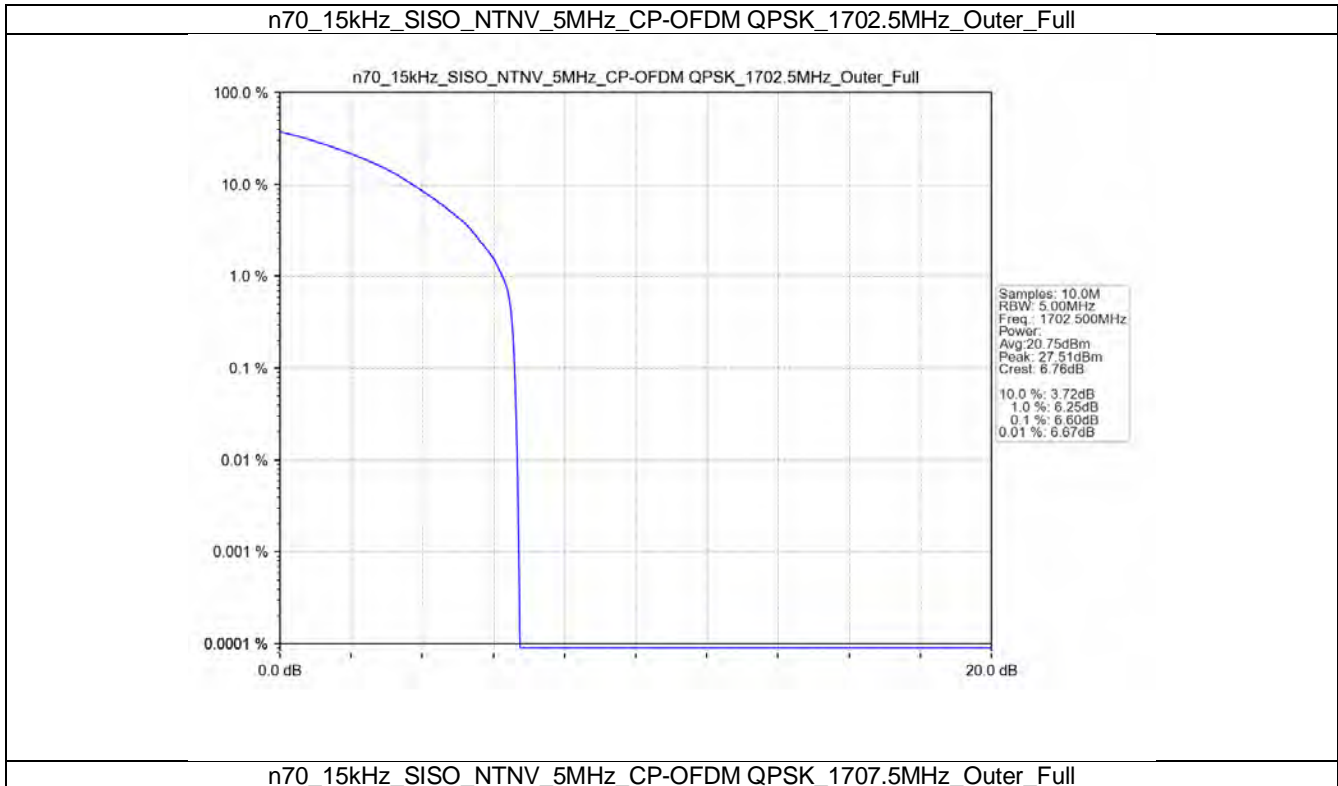


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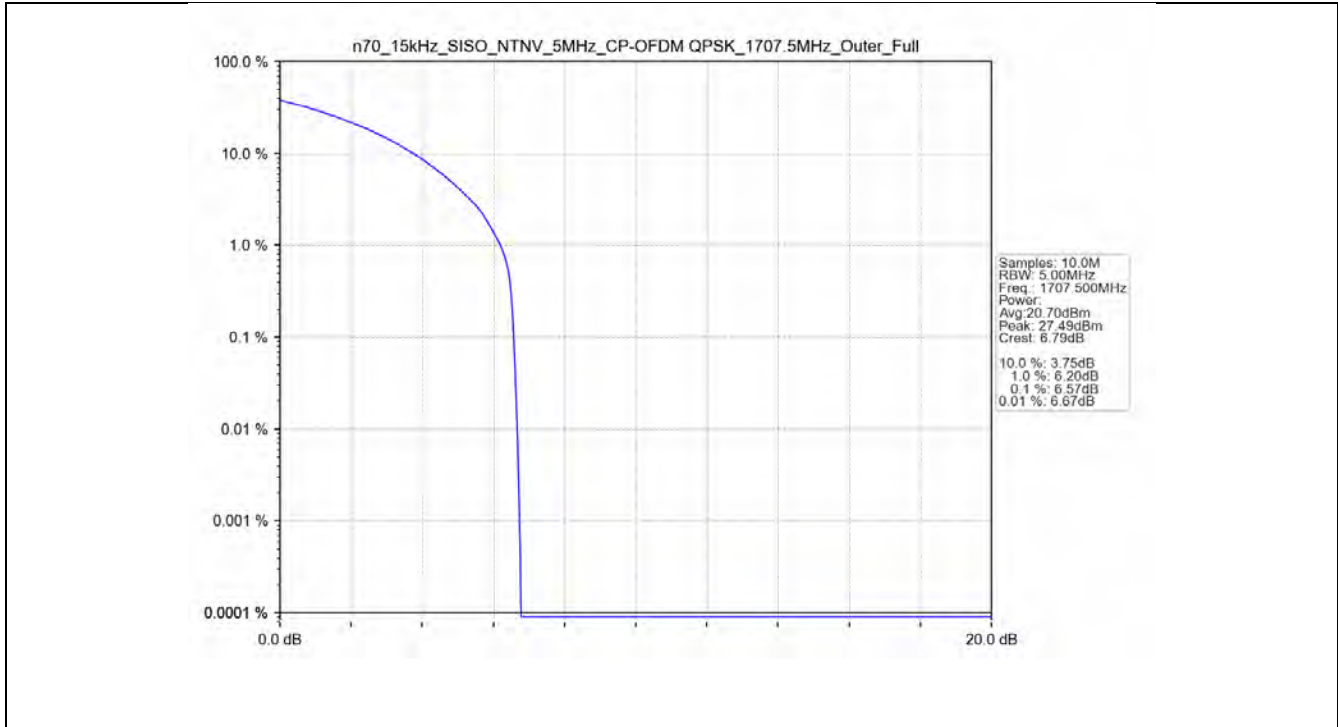


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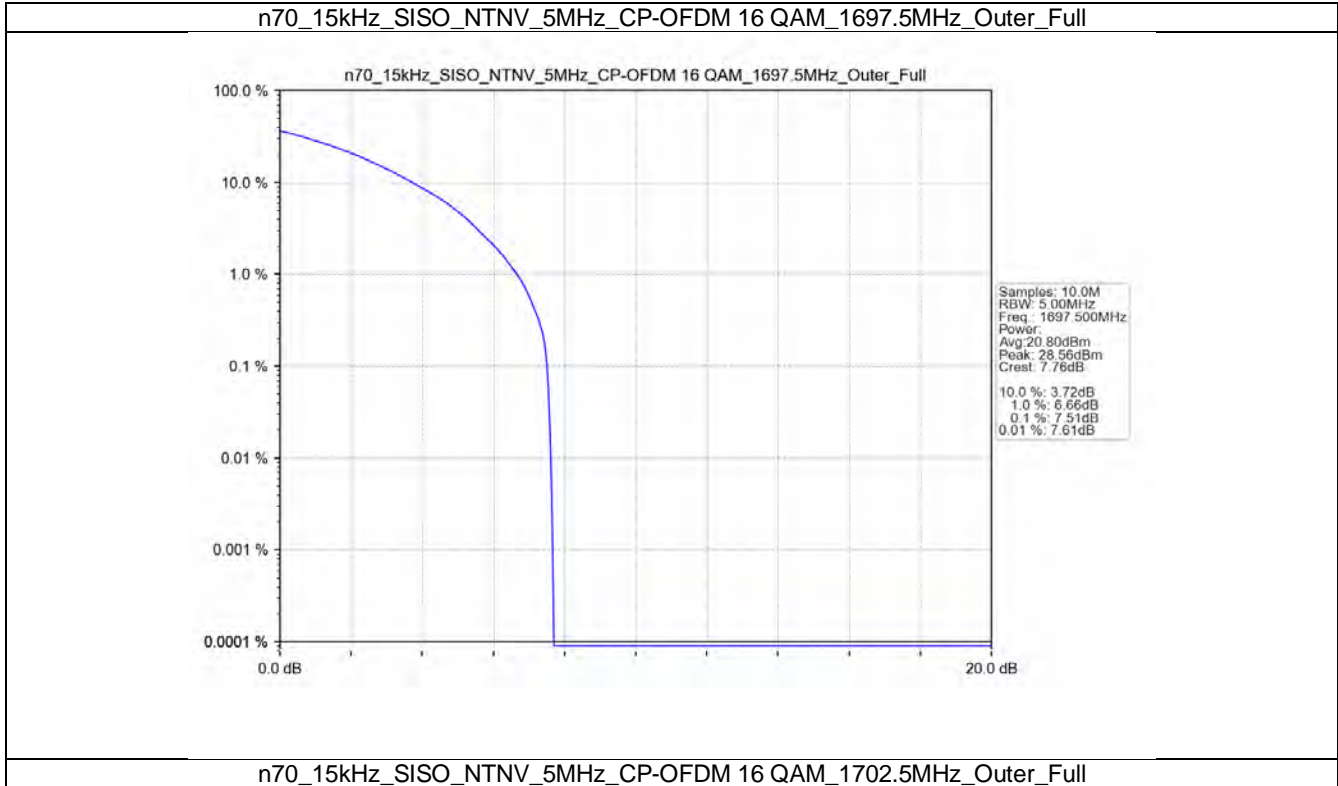


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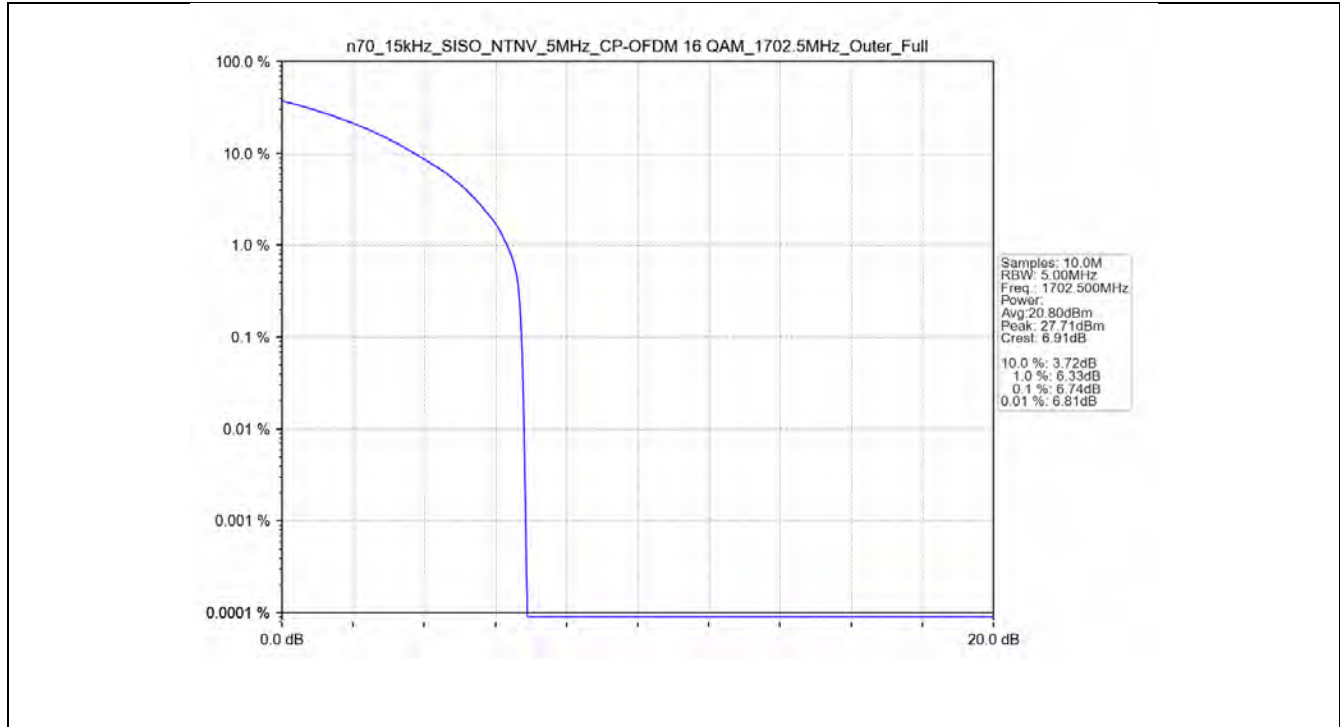


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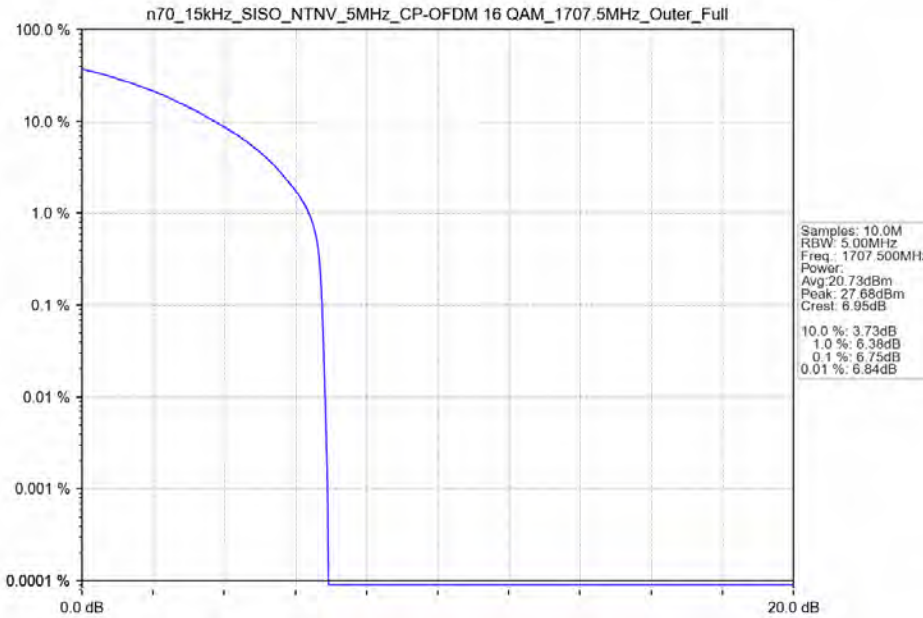
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n70_15kHz_SISO_NTNV_5MHz_CP-OFDM 16 QAM_1707.5MHz_Outer_Full



n70_15kHz_SISO_NTNV_5MHz_CP-OFDM 64 QAM_1697.5MHz_Outer_Full



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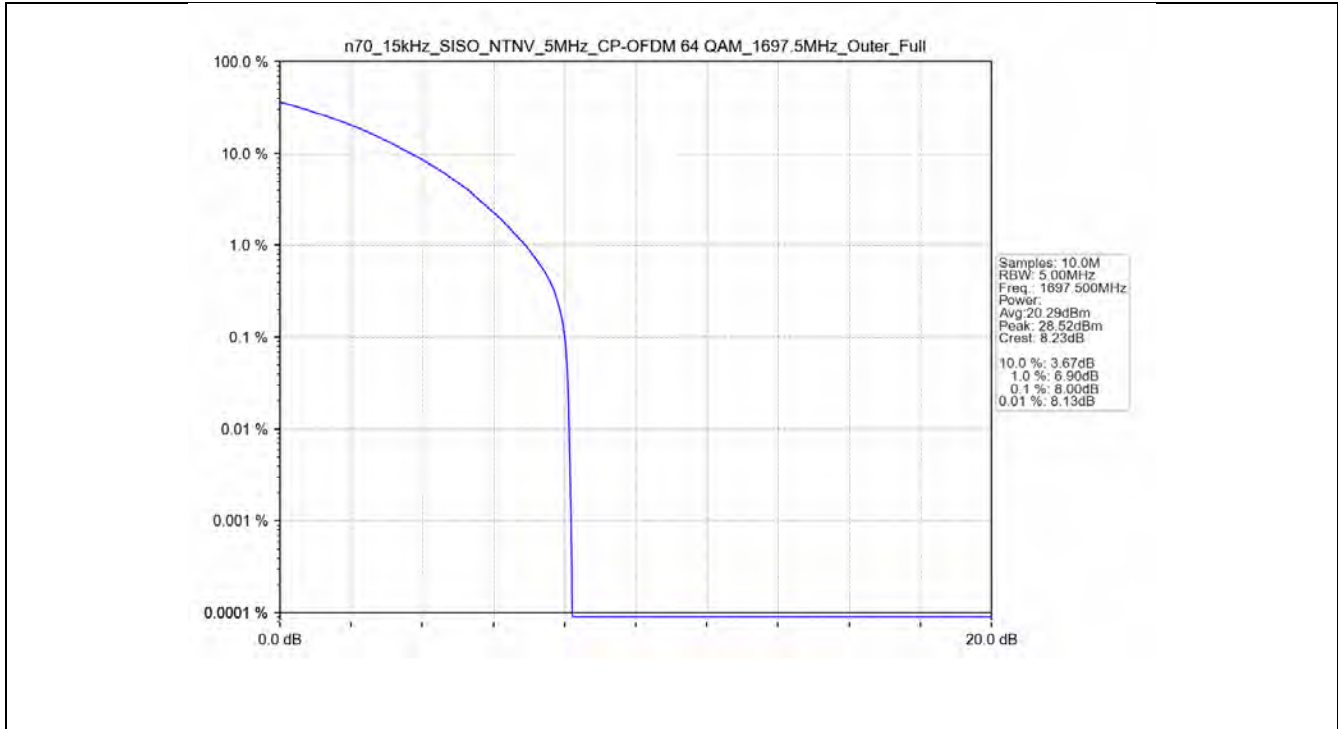


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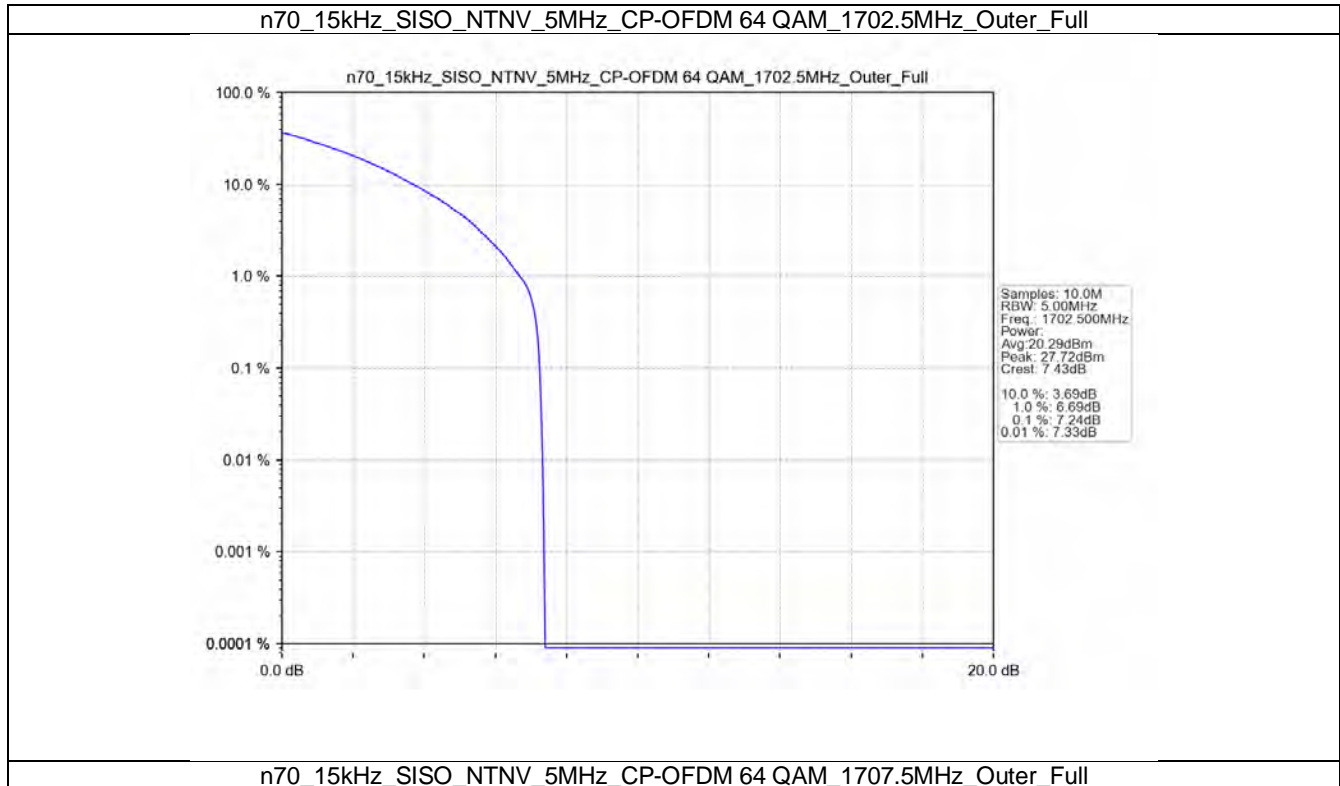


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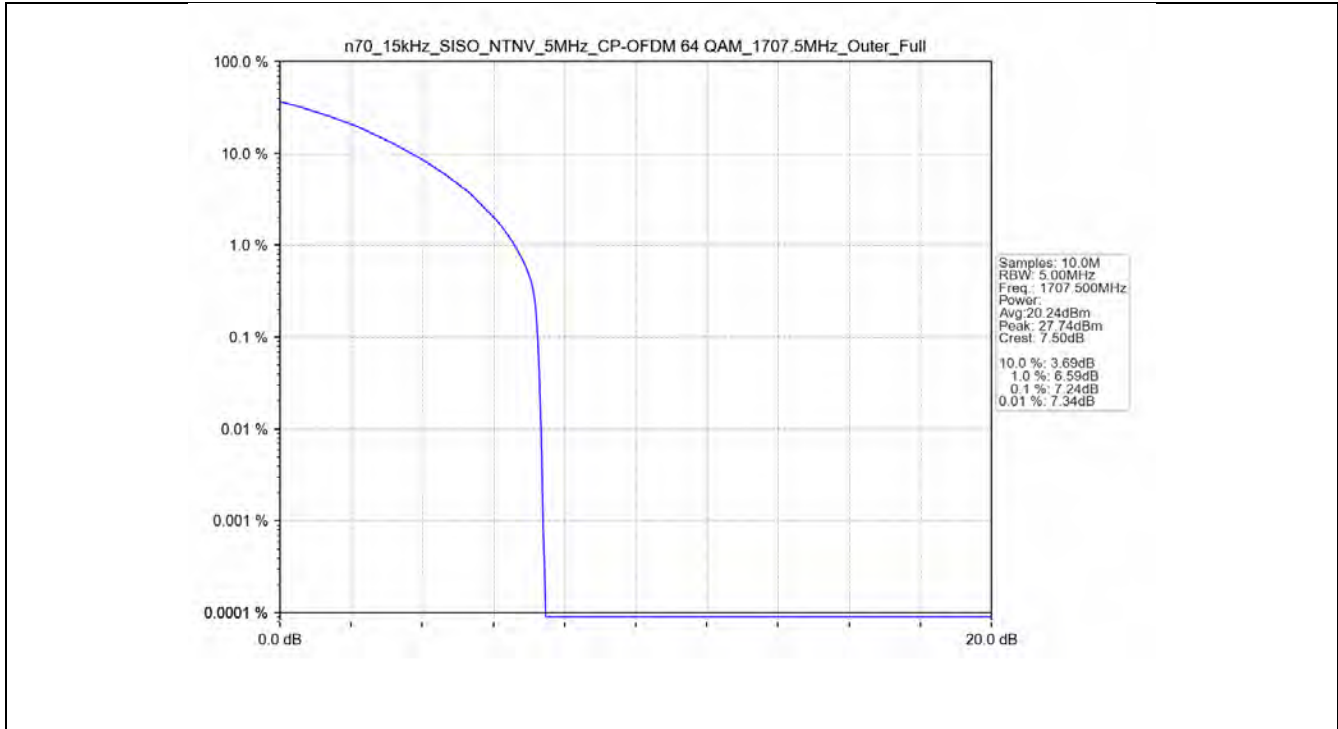


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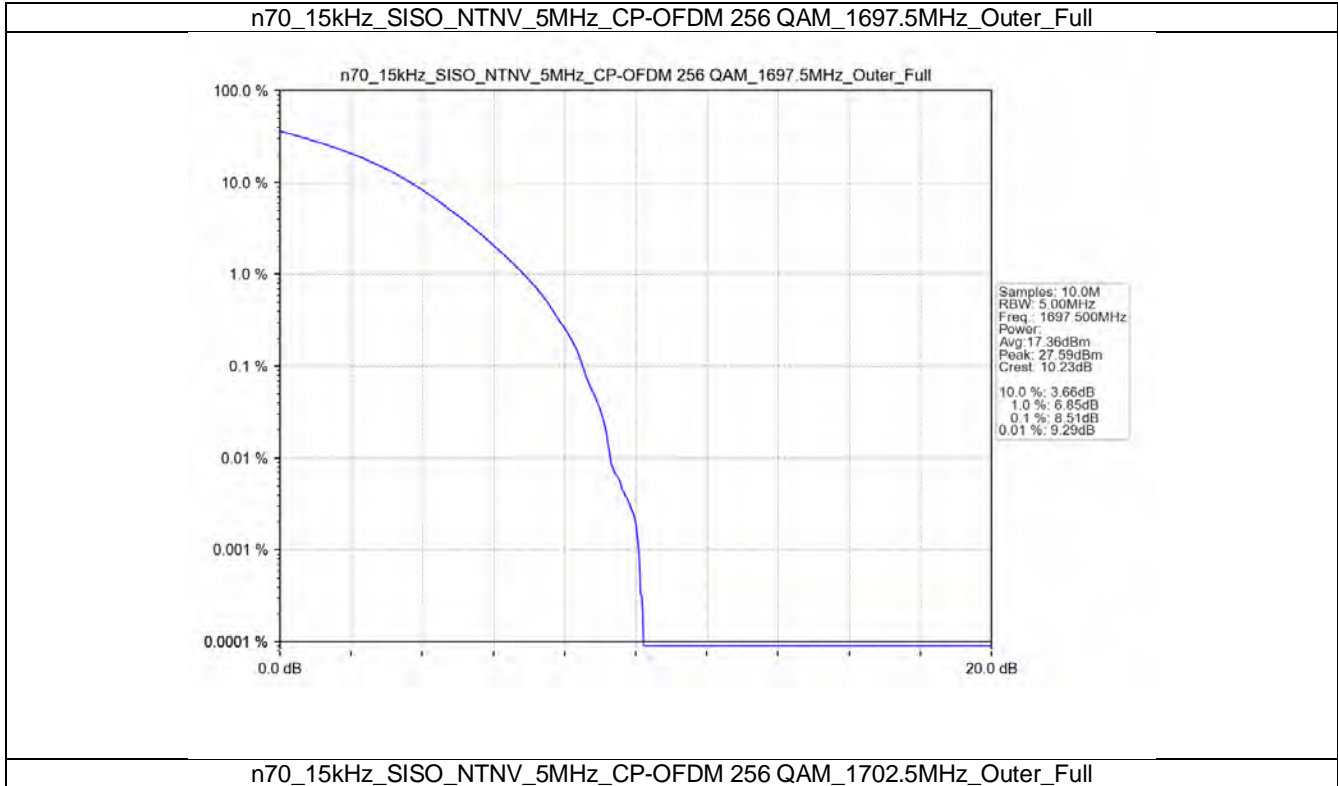


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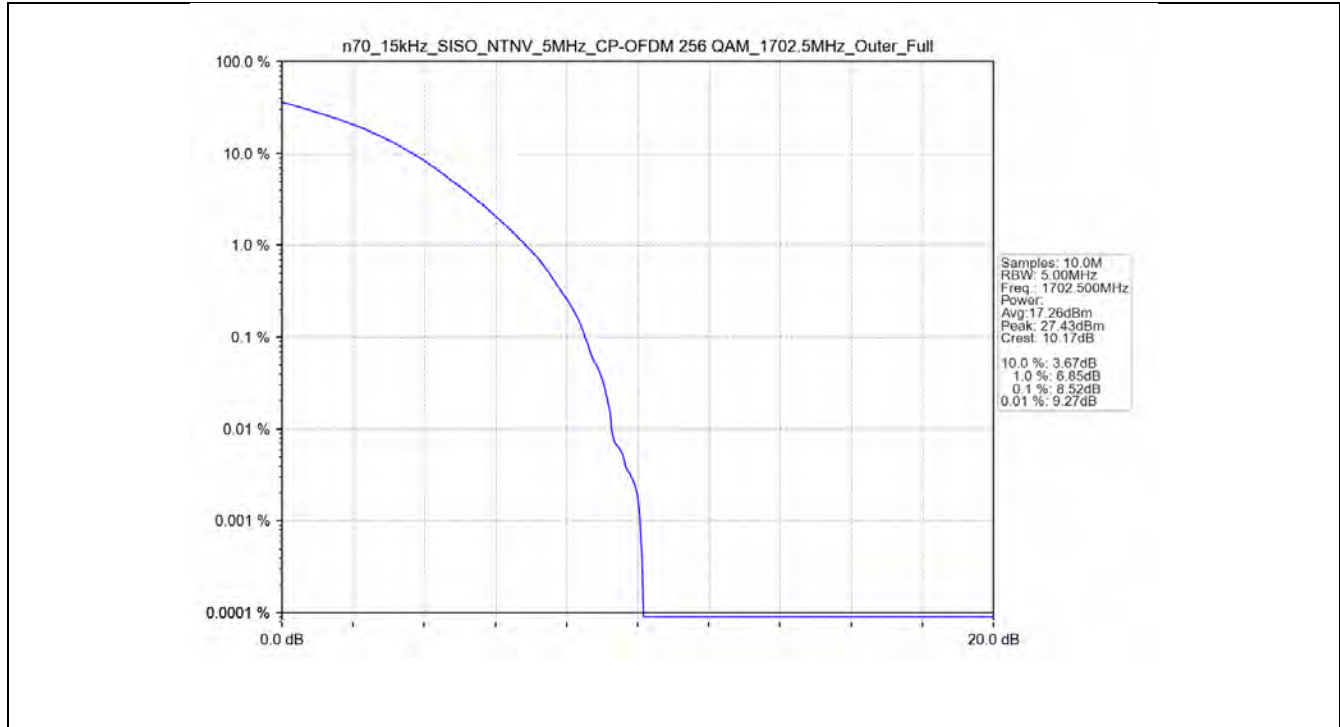


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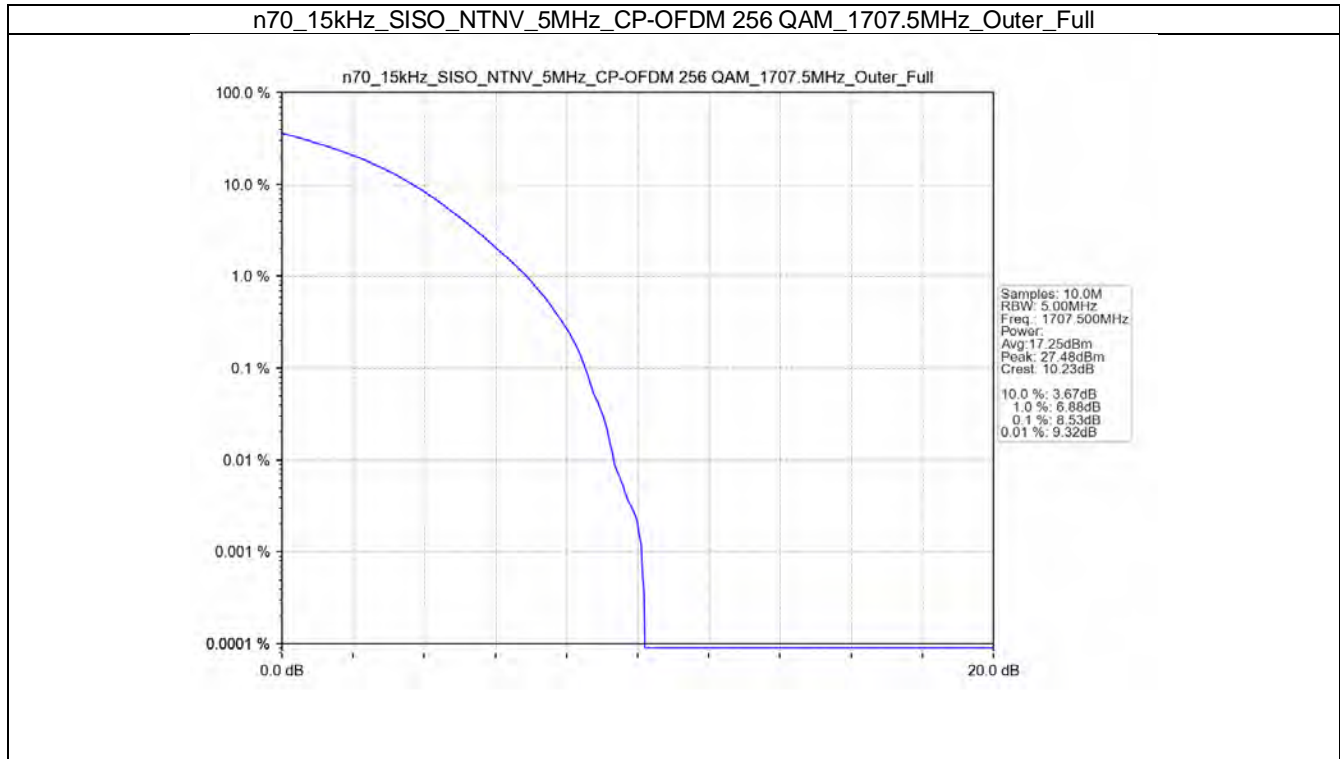


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4.2 15k_SISO_10MHz_NTNV

4.2.1 Test Result

| 5G NR n70 SCS=15kHz SISO 10MHz NTN | | | | | | | |
|------------------------------------|-----------------|---------------|-------------------------|------|-----|-------|---------|
| Modulation | Frequency (MHz) | RB Allocation | Peak-Average Ratio (dB) | | | | Verdict |
| | | | Ant1 | Ant2 | Sum | Limit | |
| DFT-s-OFDM PI/2 BPSK | 1700 | Outer_Full | 4.06 | / | / | <=13 | Pass |
| | 1702.5 | Outer_Full | 4.10 | / | / | <=13 | Pass |
| | 1705 | Outer_Full | 4.05 | / | / | <=13 | Pass |
| DFT-s-OFDM QPSK | 1700 | Outer_Full | 4.76 | / | / | <=13 | Pass |
| | 1702.5 | Outer_Full | 4.72 | / | / | <=13 | Pass |
| | 1705 | Outer_Full | 4.65 | / | / | <=13 | Pass |
| DFT-s-OFDM 16 QAM | 1700 | Outer_Full | 5.67 | / | / | <=13 | Pass |
| | 1702.5 | Outer_Full | 5.68 | / | / | <=13 | Pass |
| | 1705 | Outer_Full | 5.73 | / | / | <=13 | Pass |
| DFT-s-OFDM 64 QAM | 1700 | Outer_Full | 6.08 | / | / | <=13 | Pass |
| | 1702.5 | Outer_Full | 6.16 | / | / | <=13 | Pass |
| | 1705 | Outer_Full | 6.14 | / | / | <=13 | Pass |
| DFT-s-OFDM 256 QAM | 1700 | Outer_Full | 6.66 | / | / | <=13 | Pass |
| | 1702.5 | Outer_Full | 6.66 | / | / | <=13 | Pass |
| | 1705 | Outer_Full | 6.66 | / | / | <=13 | Pass |
| CP-OFDM QPSK | 1700 | Outer_Full | 6.86 | / | / | <=13 | Pass |
| | 1702.5 | Outer_Full | 6.91 | / | / | <=13 | Pass |
| | 1705 | Outer_Full | 6.83 | / | / | <=13 | Pass |
| CP-OFDM 16 QAM | 1700 | Outer_Full | 6.84 | / | / | <=13 | Pass |
| | 1702.5 | Outer_Full | 6.88 | / | / | <=13 | Pass |
| | 1705 | Outer_Full | 6.90 | / | / | <=13 | Pass |
| CP-OFDM 64 QAM | 1700 | Outer_Full | 7.32 | / | / | <=13 | Pass |
| | 1702.5 | Outer_Full | 7.31 | / | / | <=13 | Pass |
| | 1705 | Outer_Full | 7.32 | / | / | <=13 | Pass |
| CP-OFDM 256 QAM | 1700 | Outer_Full | 8.64 | / | / | <=13 | Pass |
| | 1702.5 | Outer_Full | 8.70 | / | / | <=13 | Pass |
| | 1705 | Outer_Full | 8.65 | / | / | <=13 | Pass |



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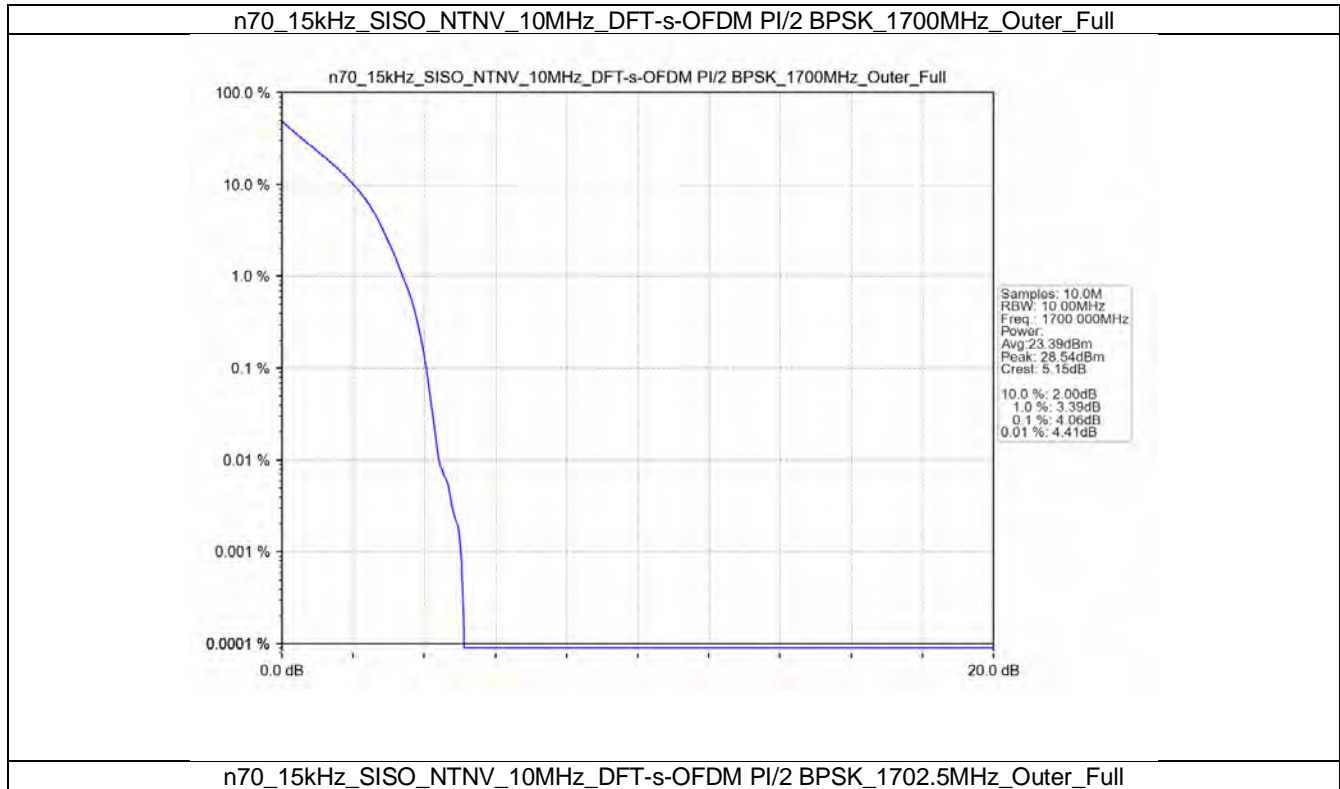
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4.2.2 Test Graph



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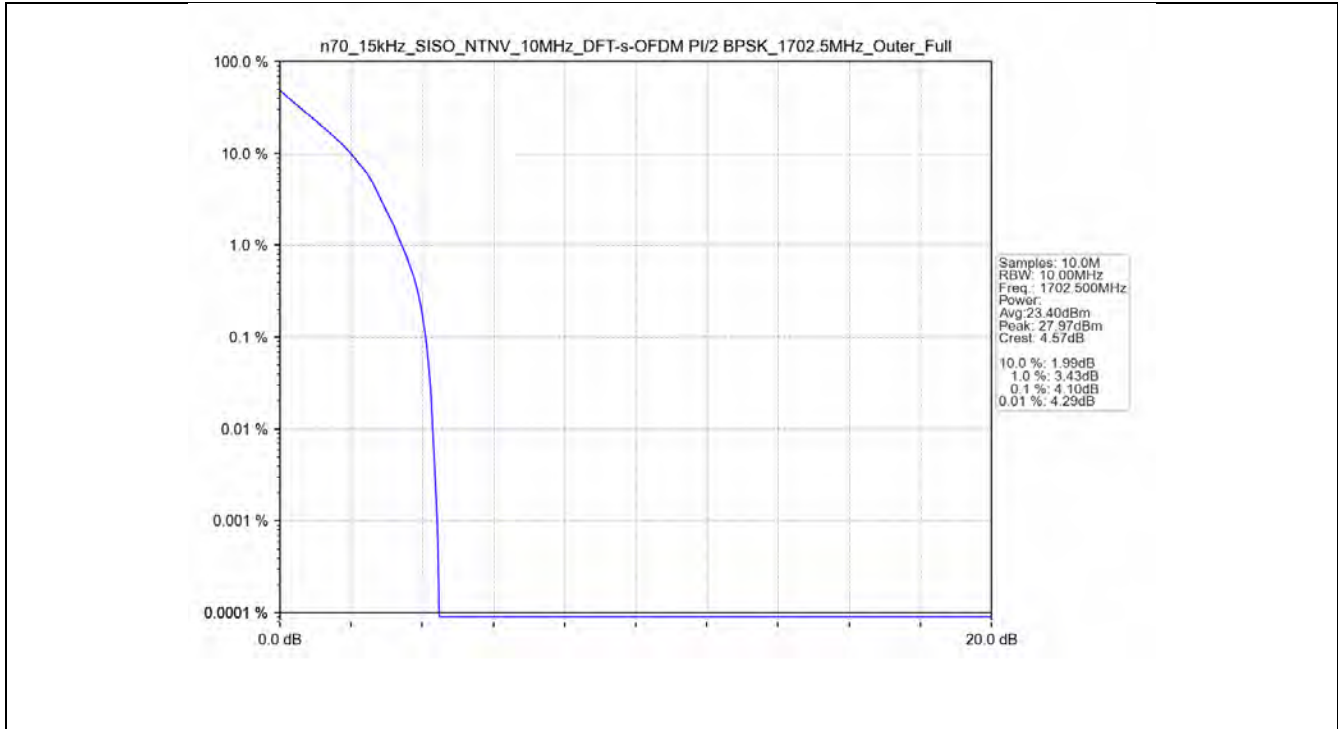


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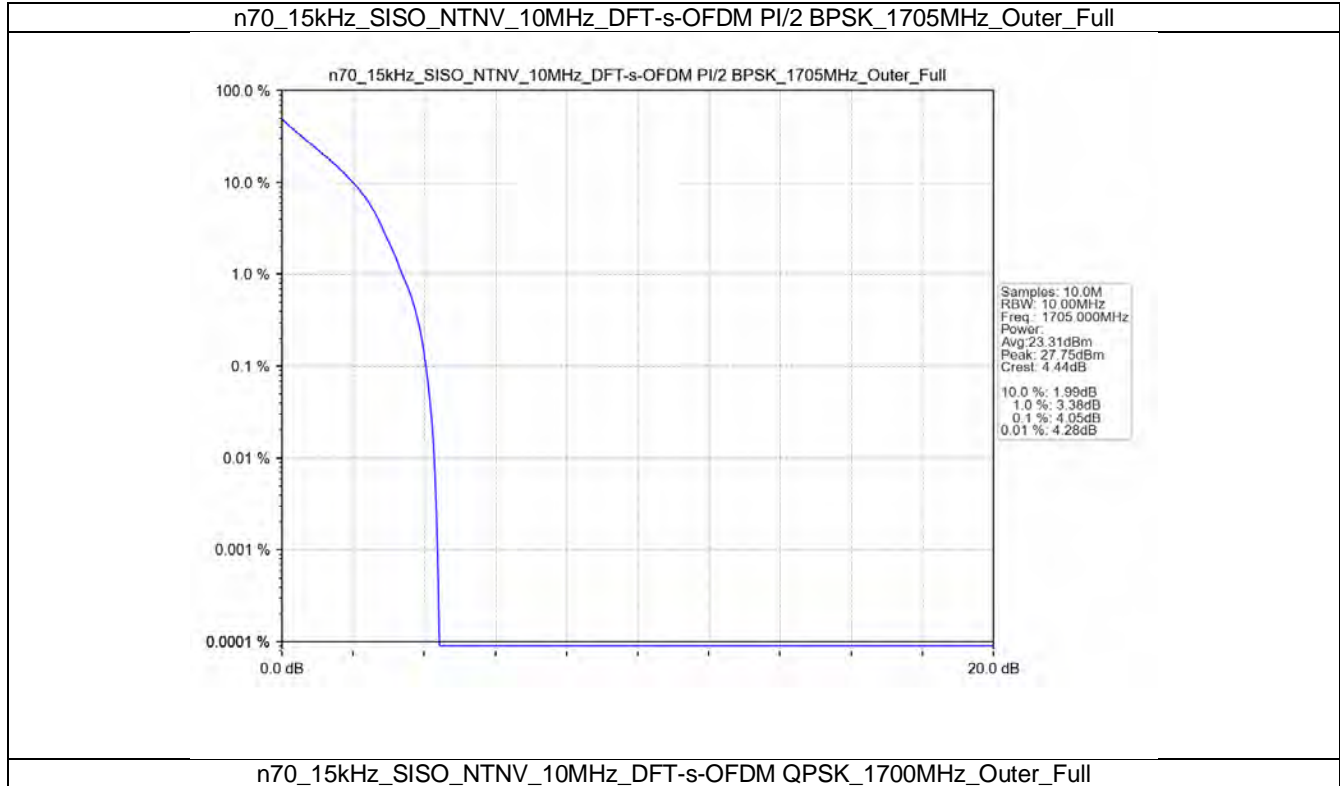


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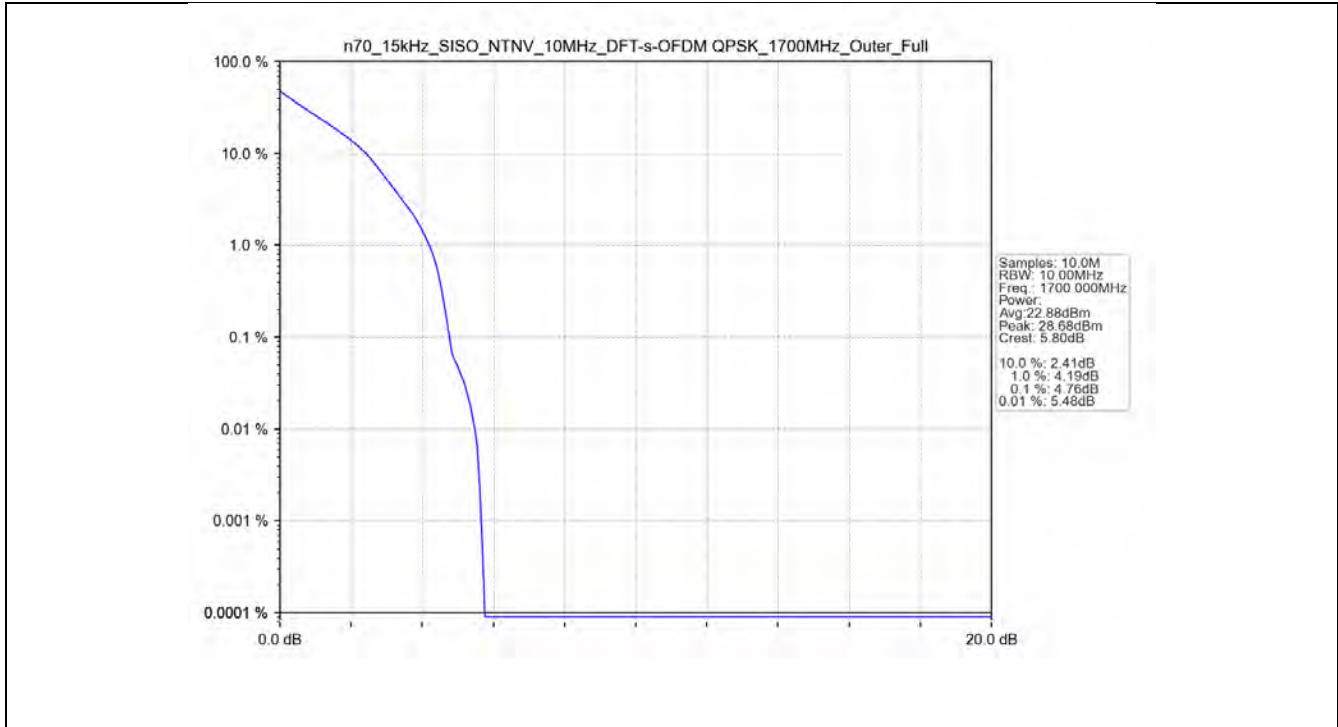


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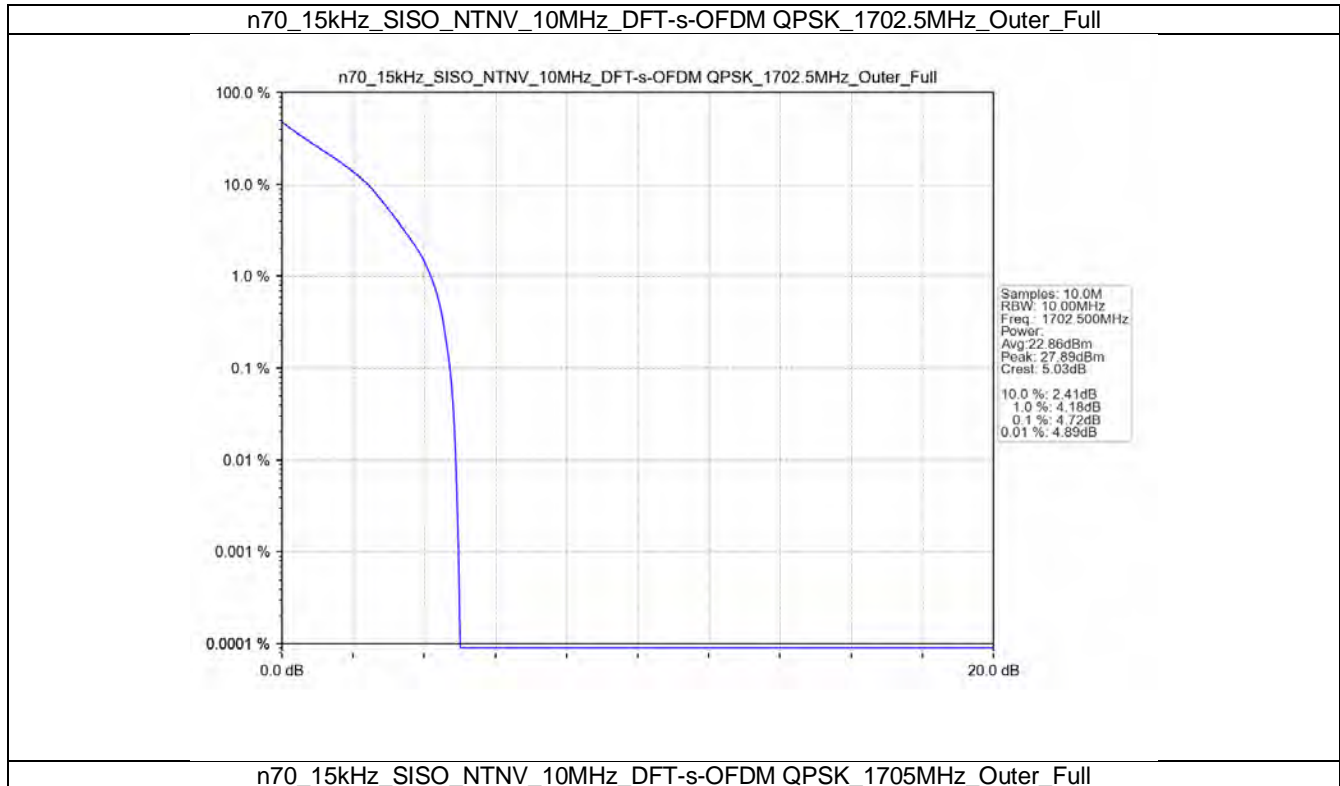


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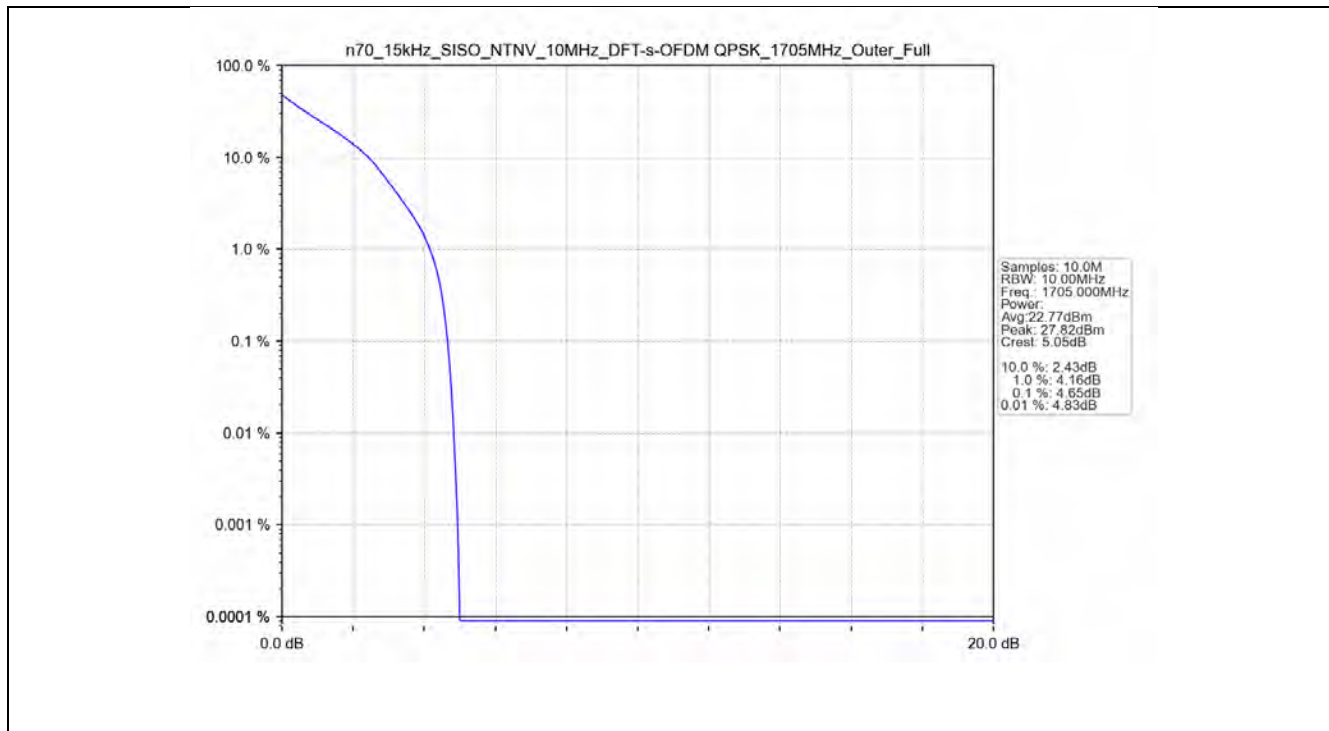
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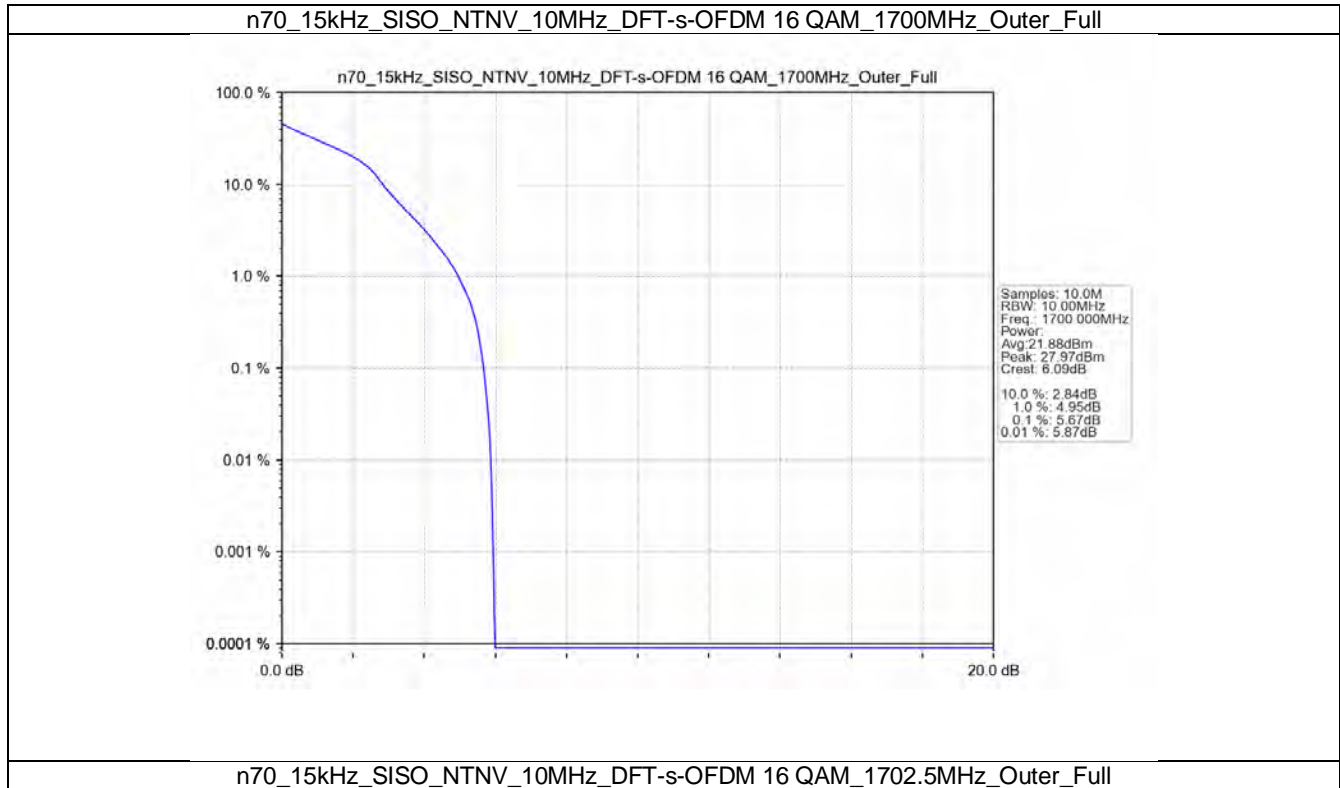


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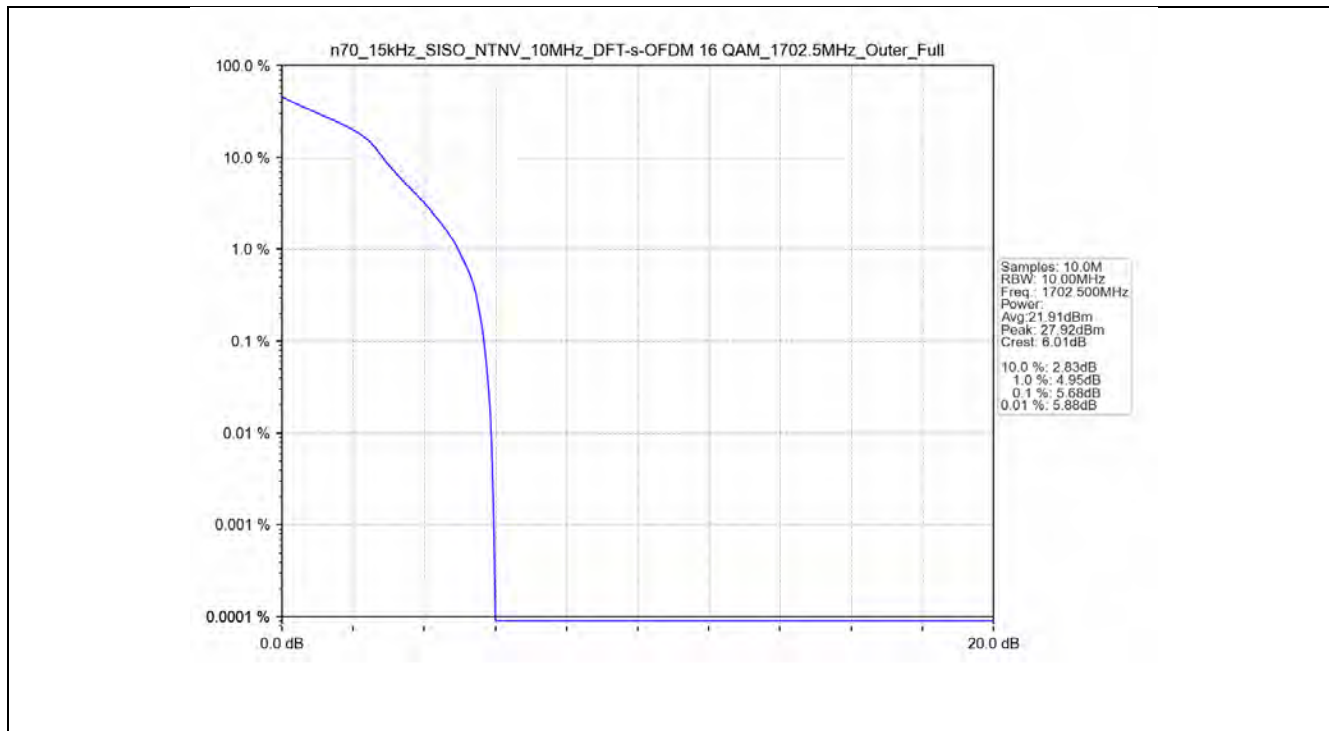
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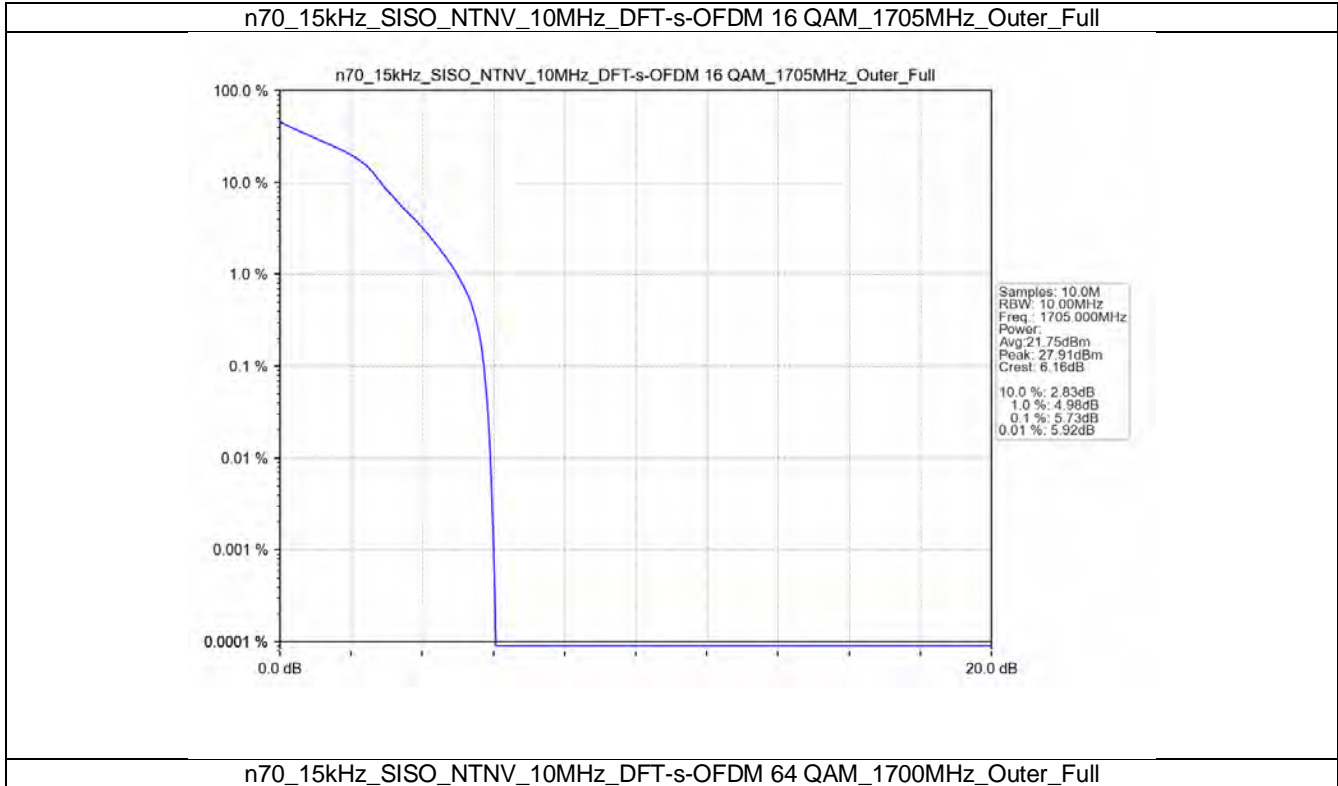


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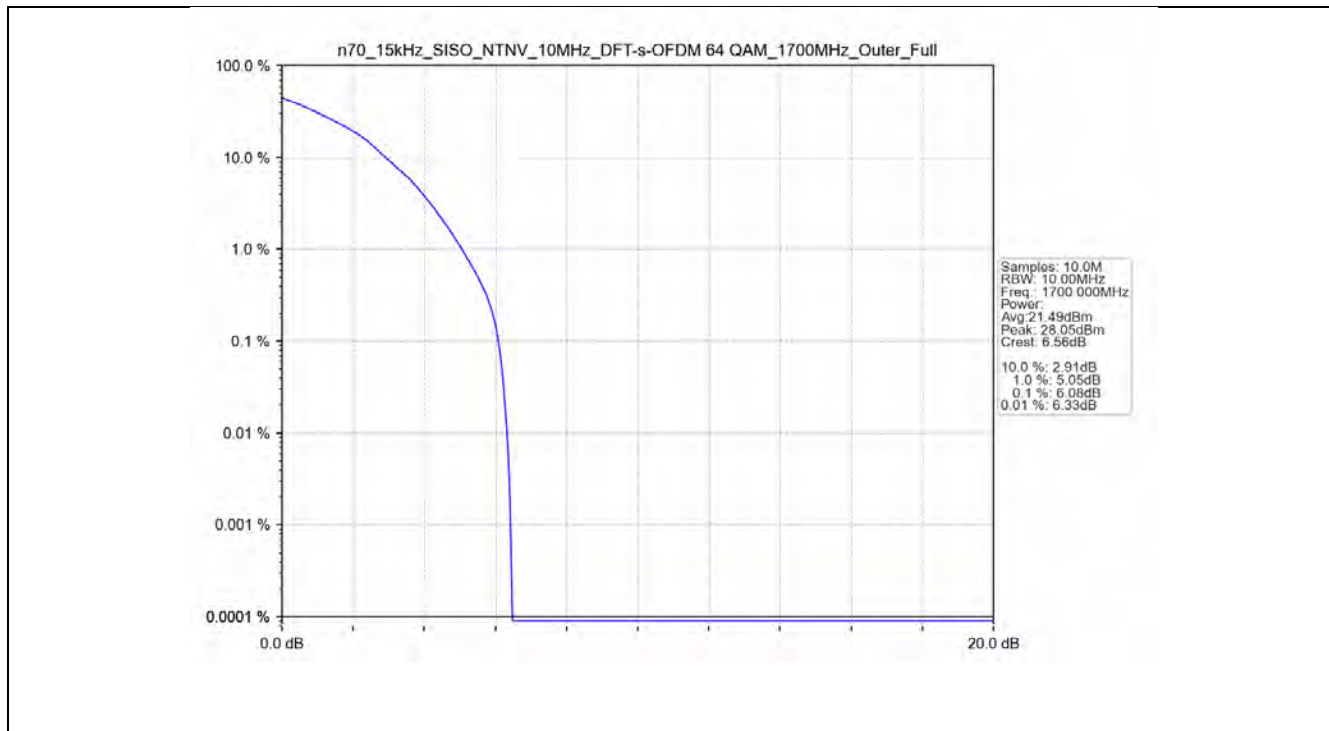
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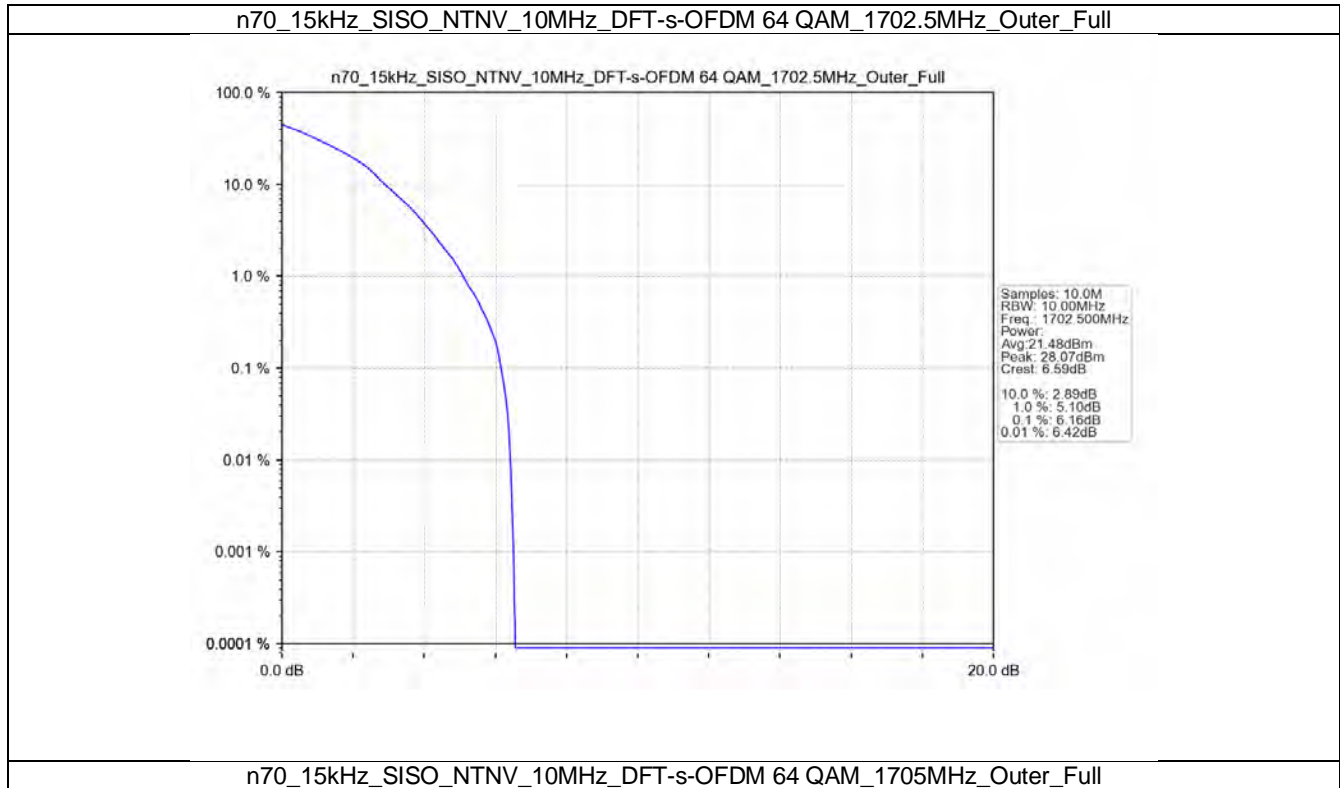


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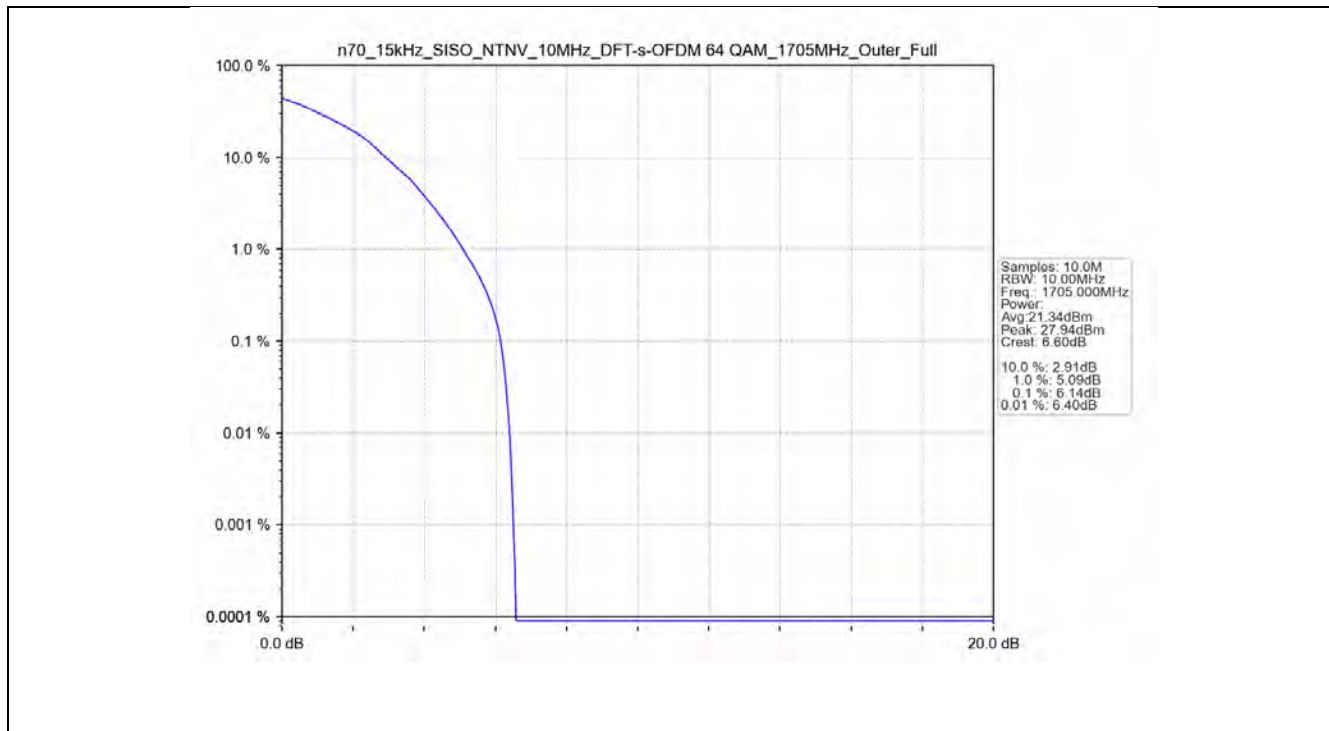
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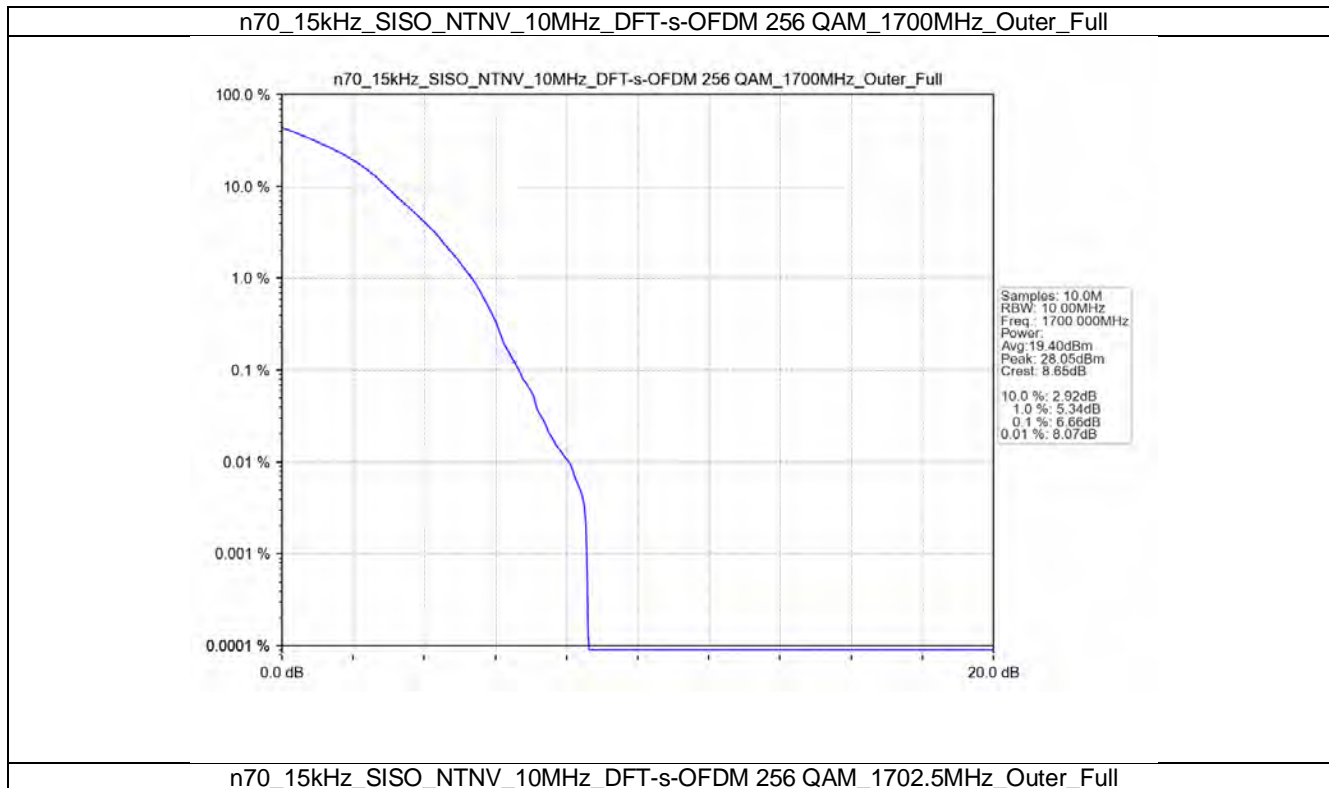
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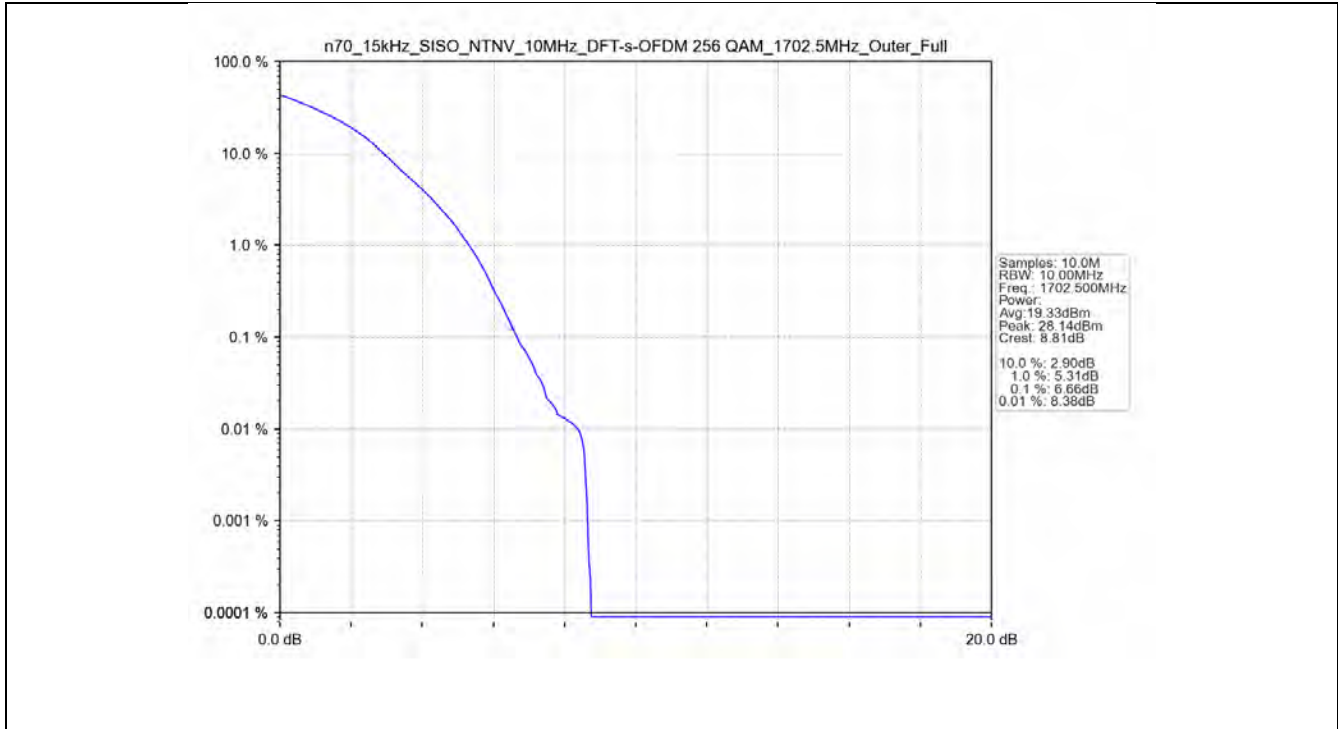


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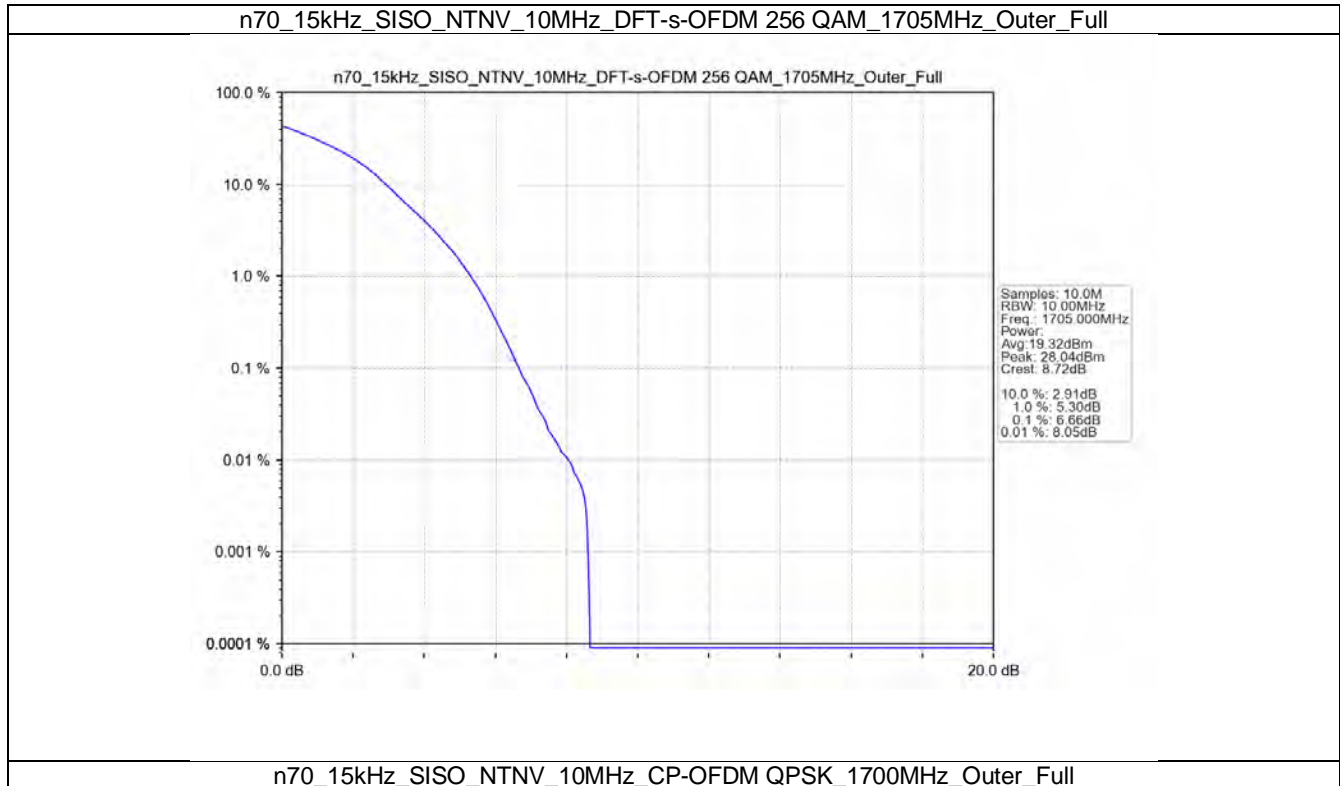


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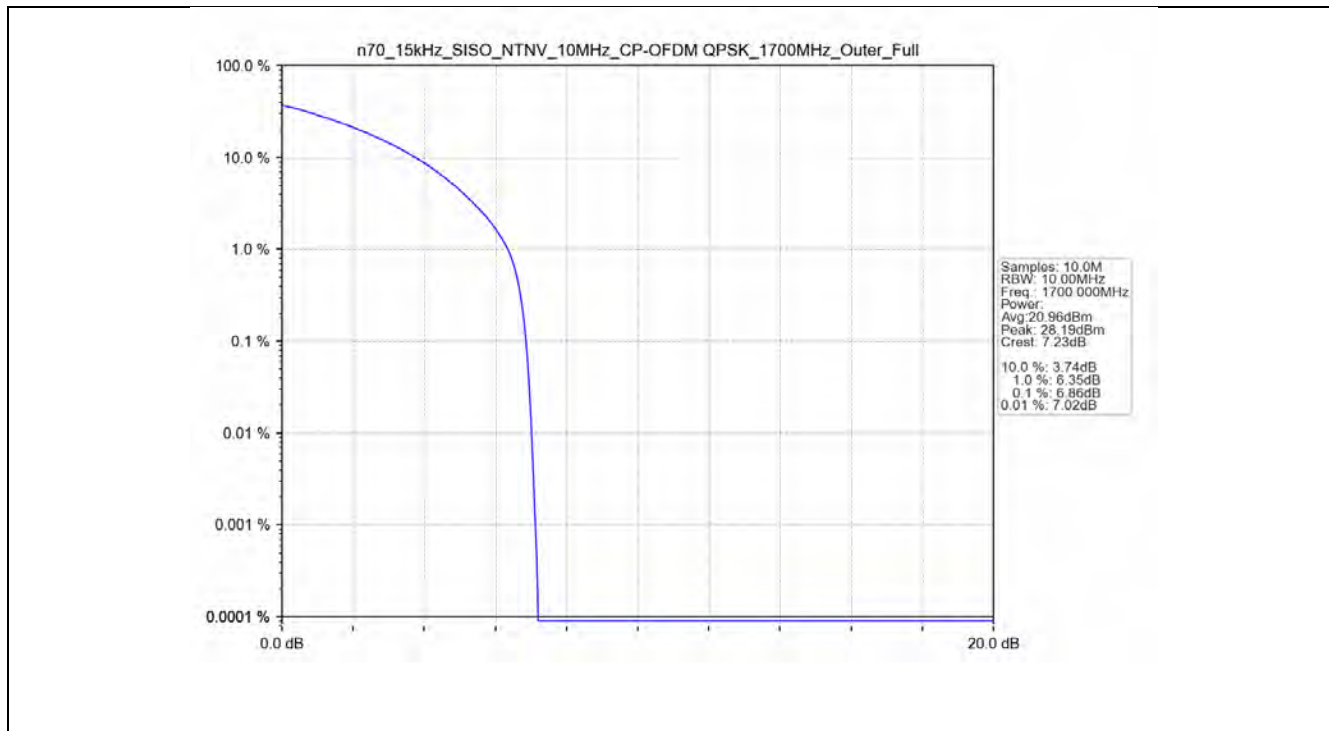
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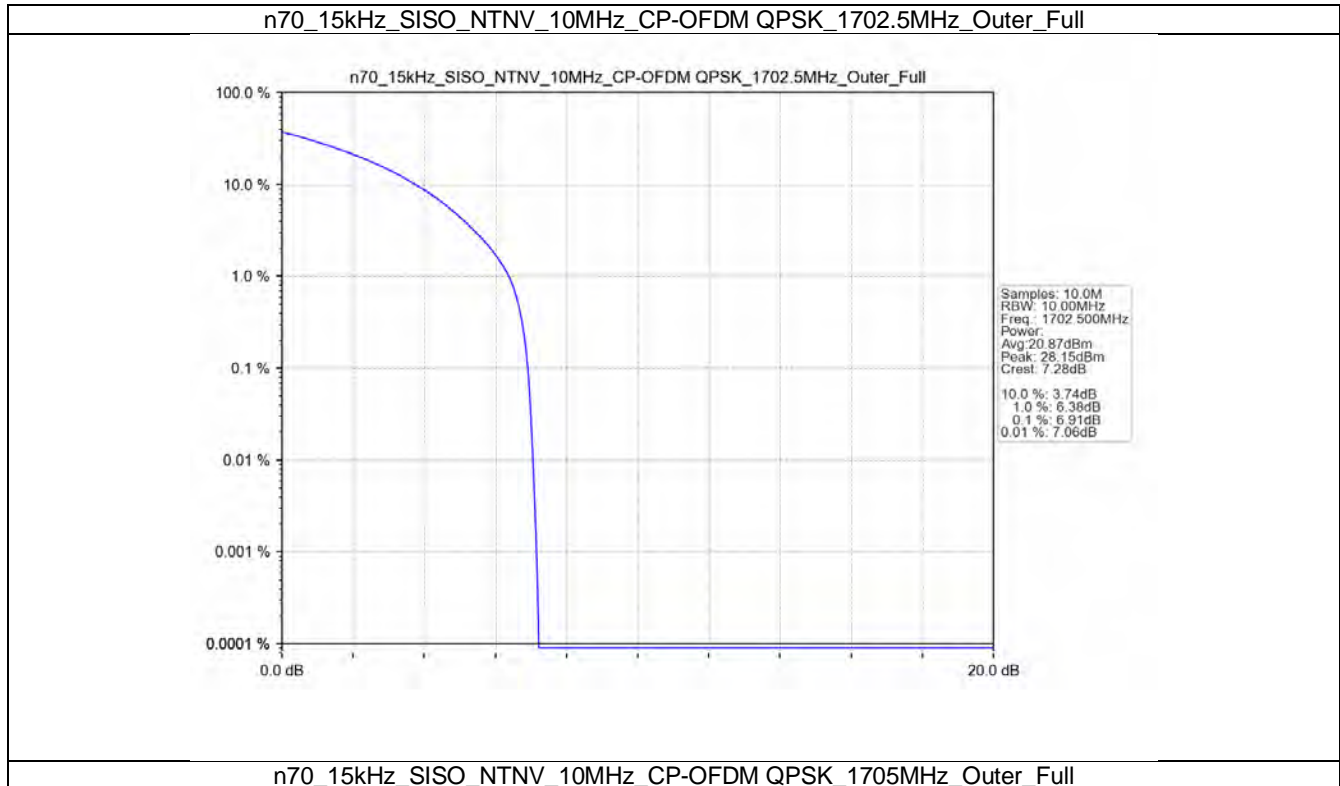


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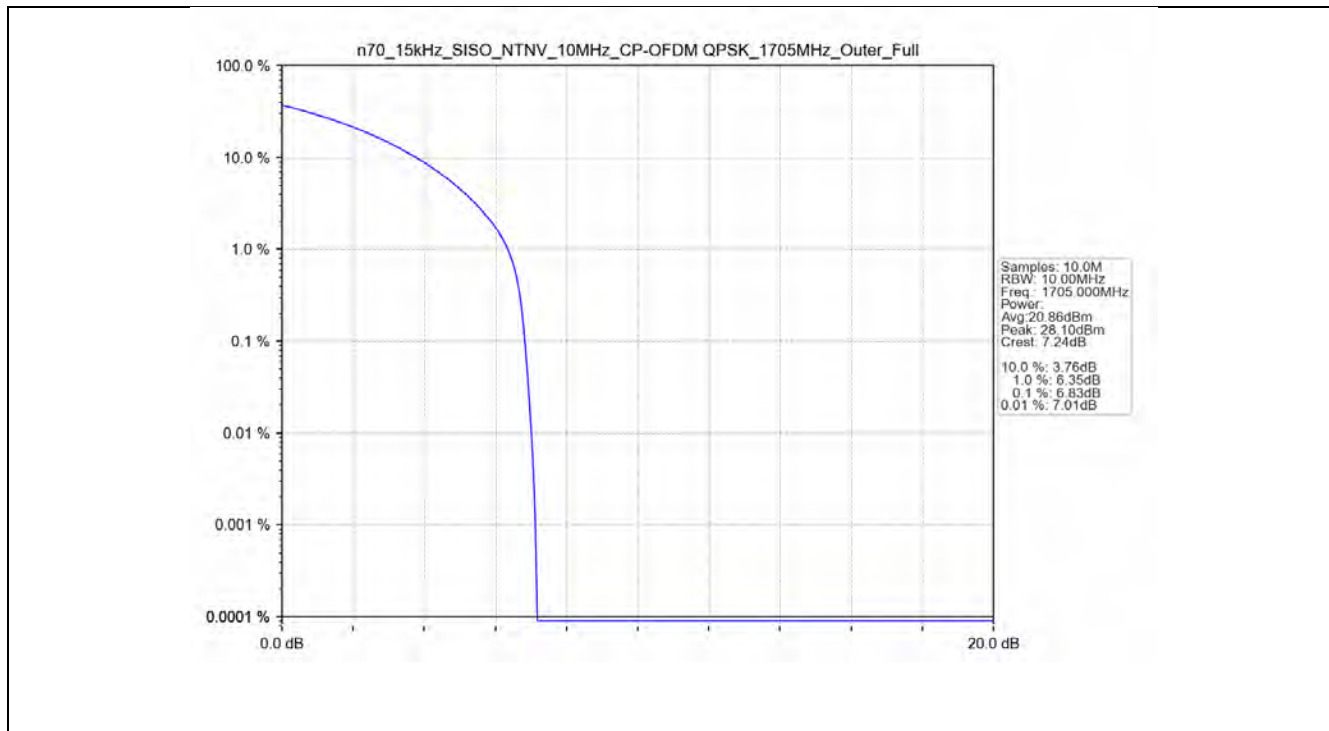
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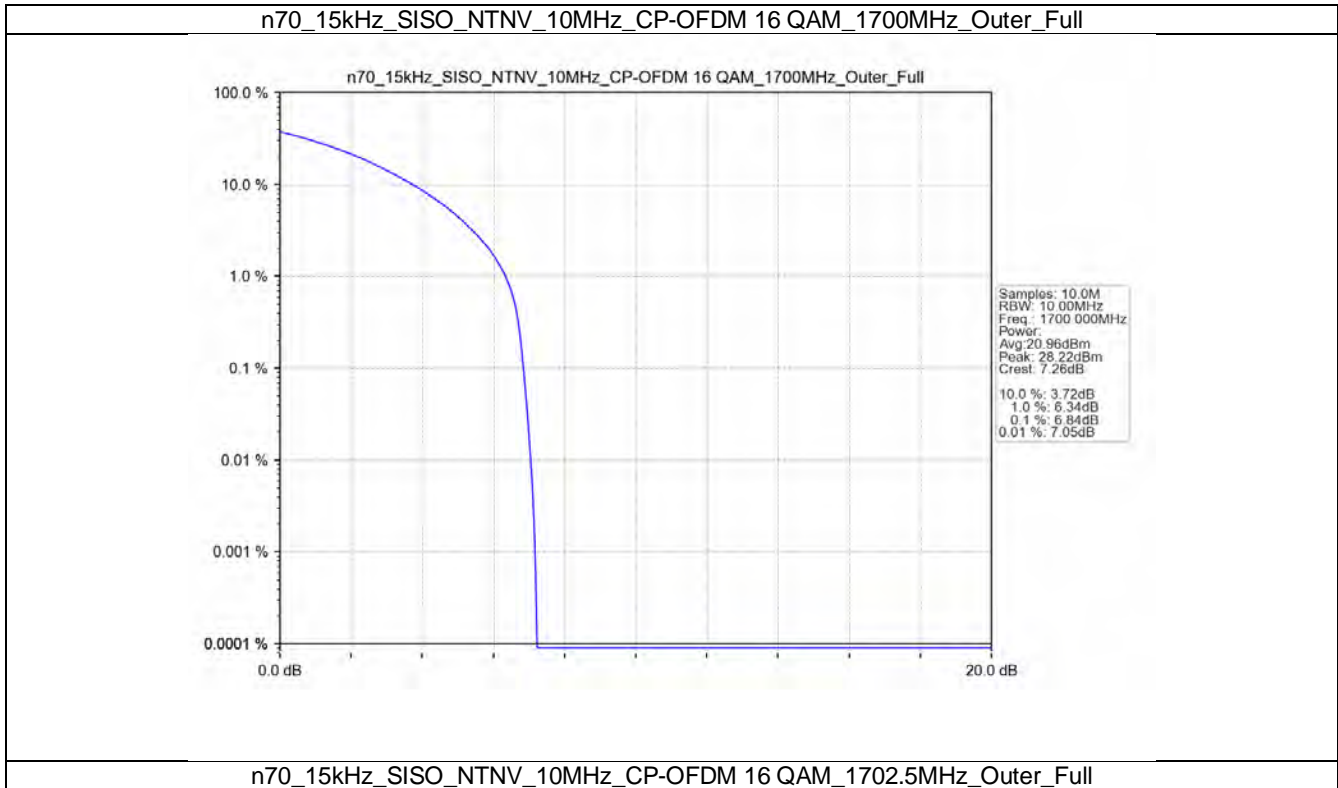


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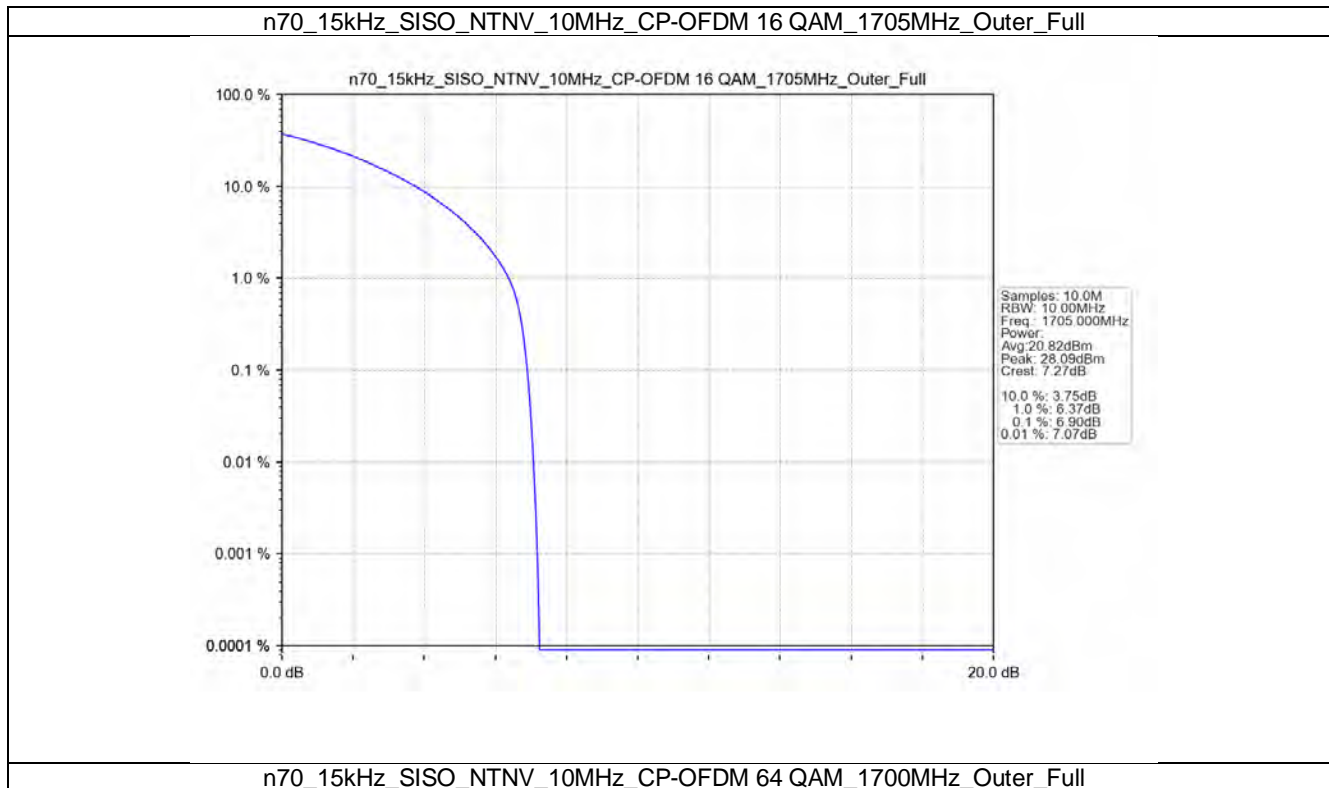
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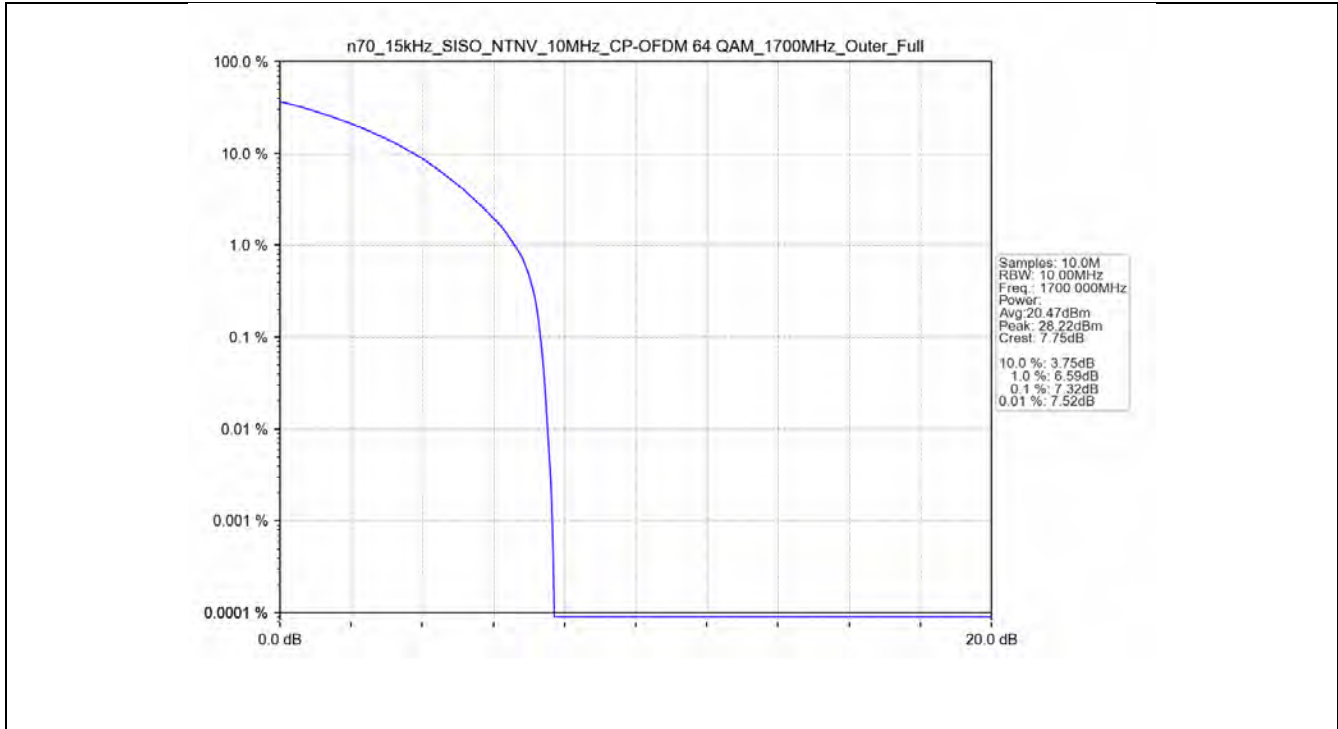


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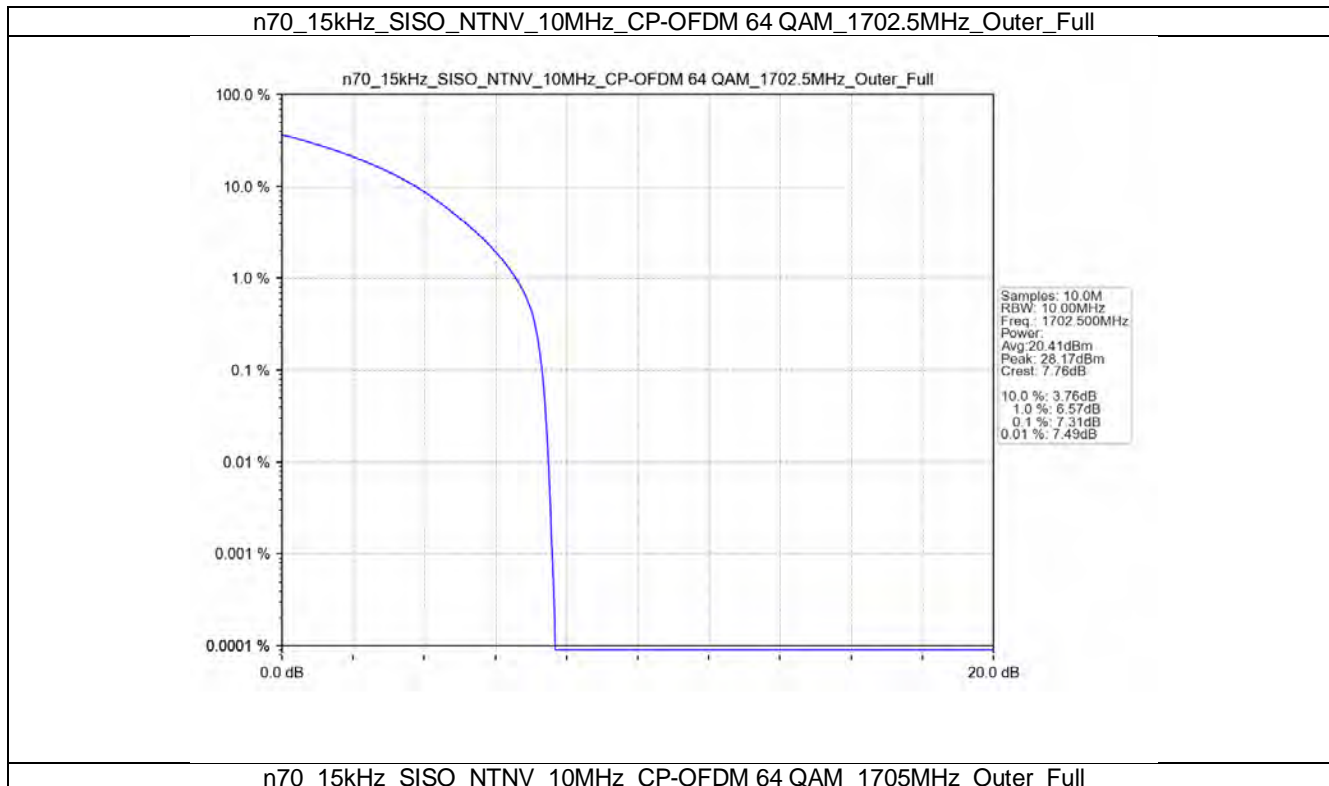
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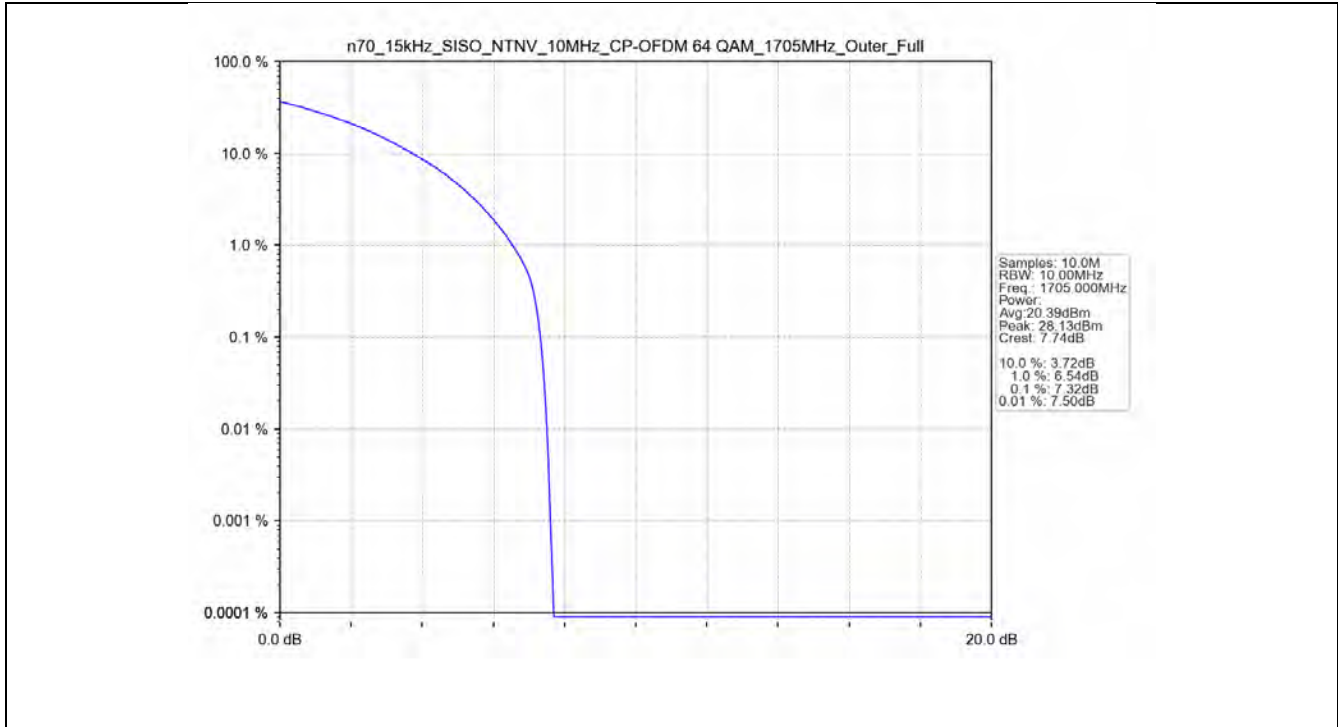


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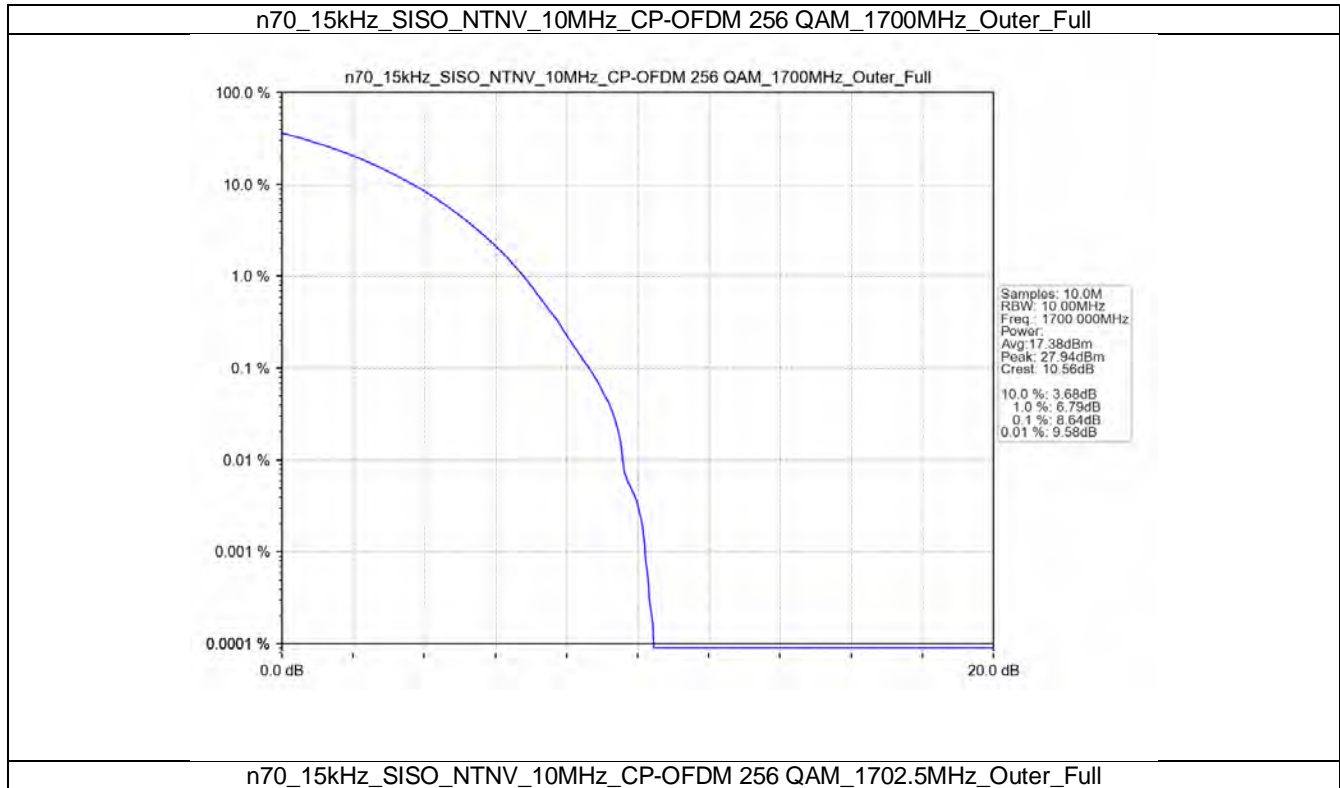


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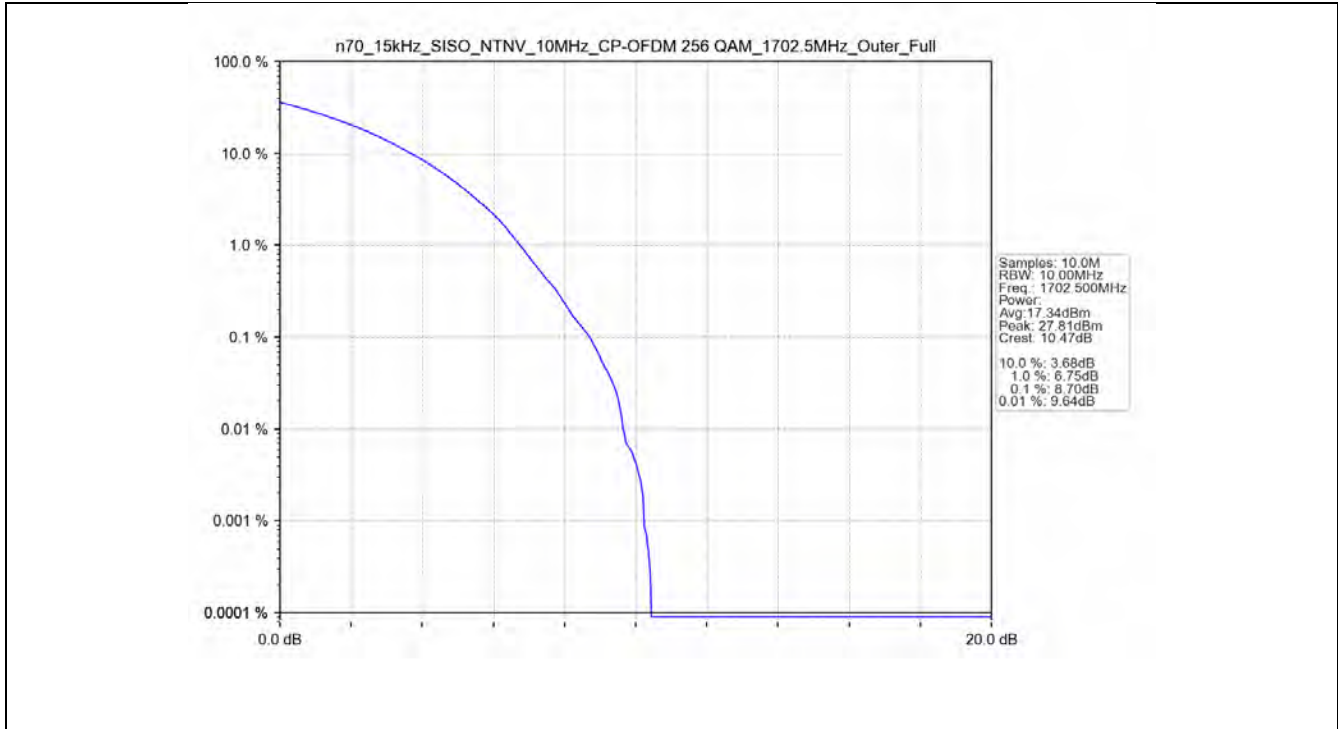


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4.3 15k_SISO_15MHz_NTNV

4.3.1 Test Result

| 5G NR n70 SCS=15kHz SISO 15MHz NTNv | | | | | | | |
|-------------------------------------|-----------------|---------------|-------------------------|------|-----|-------|---------|
| Modulation | Frequency (MHz) | RB Allocation | Peak-Average Ratio (dB) | | | | Verdict |
| | | | Ant1 | Ant2 | Sum | Limit | |
| DFT-s-OFDM PI/2 BPSK | 1702.5 | Outer_Full | 4.10 | / | / | <=13 | Pass |
| | 1702.5 | Outer_Full | 4.21 | / | / | <=13 | Pass |
| | 1702.5 | Outer_Full | 4.12 | / | / | <=13 | Pass |
| DFT-s-OFDM QPSK | 1702.5 | Outer_Full | 4.66 | / | / | <=13 | Pass |
| | 1702.5 | Outer_Full | 4.79 | / | / | <=13 | Pass |
| | 1702.5 | Outer_Full | 4.64 | / | / | <=13 | Pass |
| DFT-s-OFDM 16 QAM | 1702.5 | Outer_Full | 5.60 | / | / | <=13 | Pass |
| | 1702.5 | Outer_Full | 5.75 | / | / | <=13 | Pass |
| | 1702.5 | Outer_Full | 5.60 | / | / | <=13 | Pass |
| DFT-s-OFDM 64 QAM | 1702.5 | Outer_Full | 6.09 | / | / | <=13 | Pass |
| | 1702.5 | Outer_Full | 6.21 | / | / | <=13 | Pass |
| | 1702.5 | Outer_Full | 6.11 | / | / | <=13 | Pass |
| DFT-s-OFDM 256 QAM | 1702.5 | Outer_Full | 6.74 | / | / | <=13 | Pass |
| | 1702.5 | Outer_Full | 6.72 | / | / | <=13 | Pass |
| | 1702.5 | Outer_Full | 6.72 | / | / | <=13 | Pass |
| CP-OFDM QPSK | 1702.5 | Outer_Full | 6.85 | / | / | <=13 | Pass |
| | 1702.5 | Outer_Full | 6.89 | / | / | <=13 | Pass |
| | 1702.5 | Outer_Full | 6.81 | / | / | <=13 | Pass |
| CP-OFDM 16 QAM | 1702.5 | Outer_Full | 6.87 | / | / | <=13 | Pass |
| | 1702.5 | Outer_Full | 6.92 | / | / | <=13 | Pass |
| | 1702.5 | Outer_Full | 6.84 | / | / | <=13 | Pass |
| CP-OFDM 64 QAM | 1702.5 | Outer_Full | 7.51 | / | / | <=13 | Pass |
| | 1702.5 | Outer_Full | 7.56 | / | / | <=13 | Pass |
| | 1702.5 | Outer_Full | 7.52 | / | / | <=13 | Pass |
| CP-OFDM 256 QAM | 1702.5 | Outer_Full | 8.49 | / | / | <=13 | Pass |
| | 1702.5 | Outer_Full | 8.48 | / | / | <=13 | Pass |
| | 1702.5 | Outer_Full | 8.50 | / | / | <=13 | Pass |



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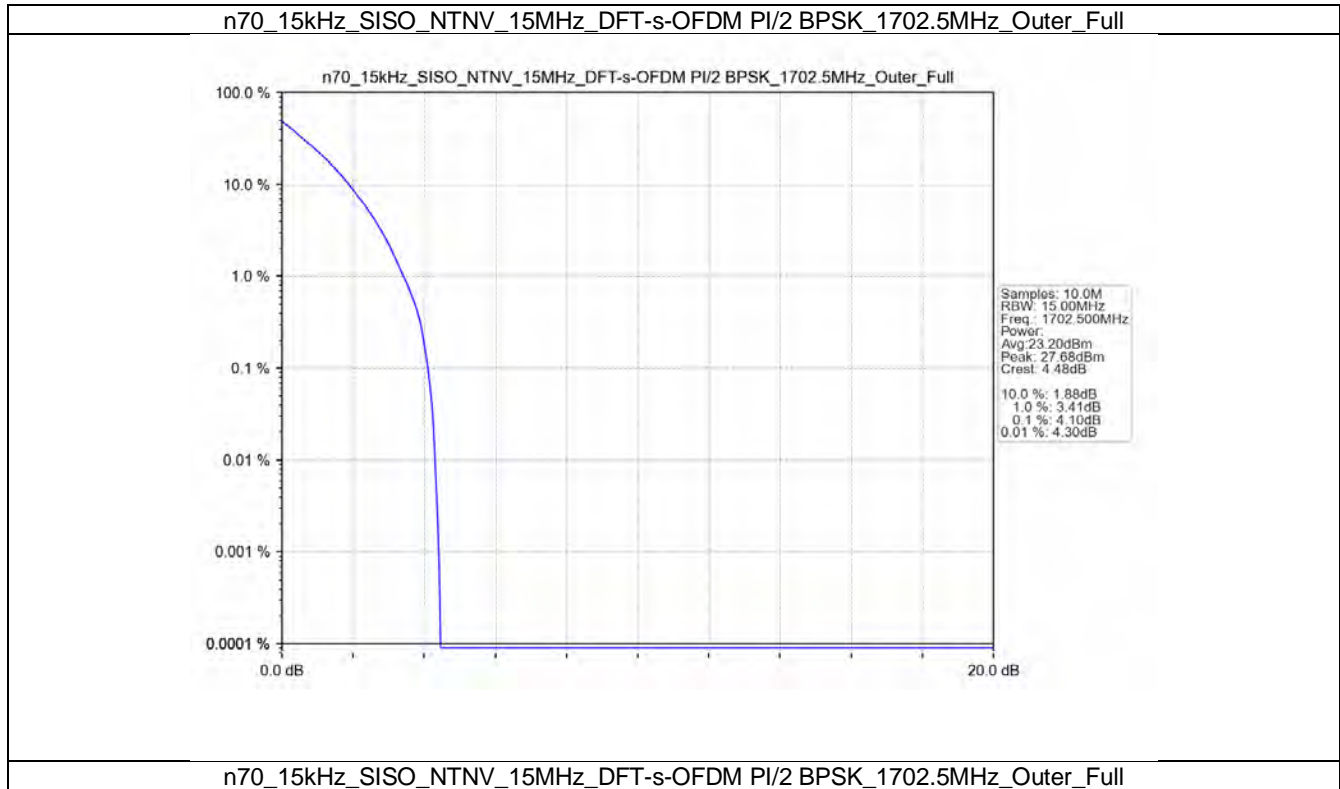
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4.3.2 Test Graph



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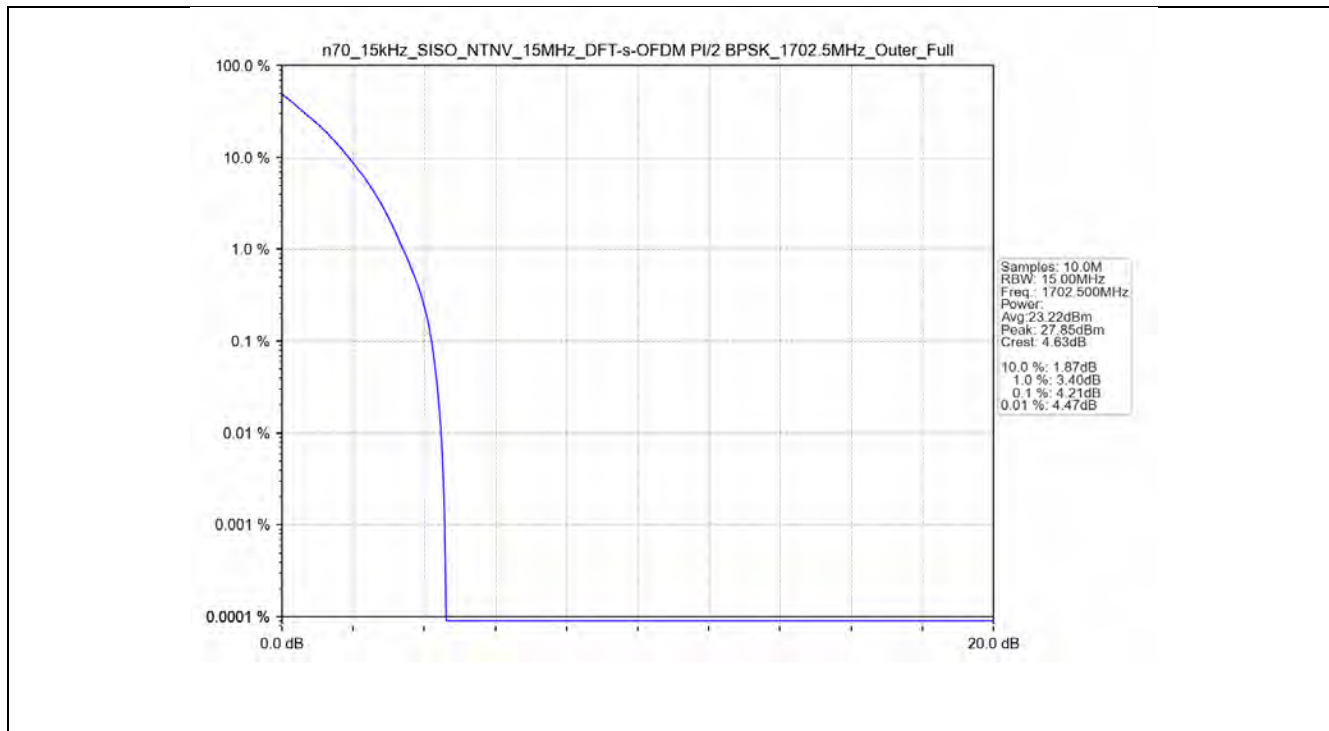
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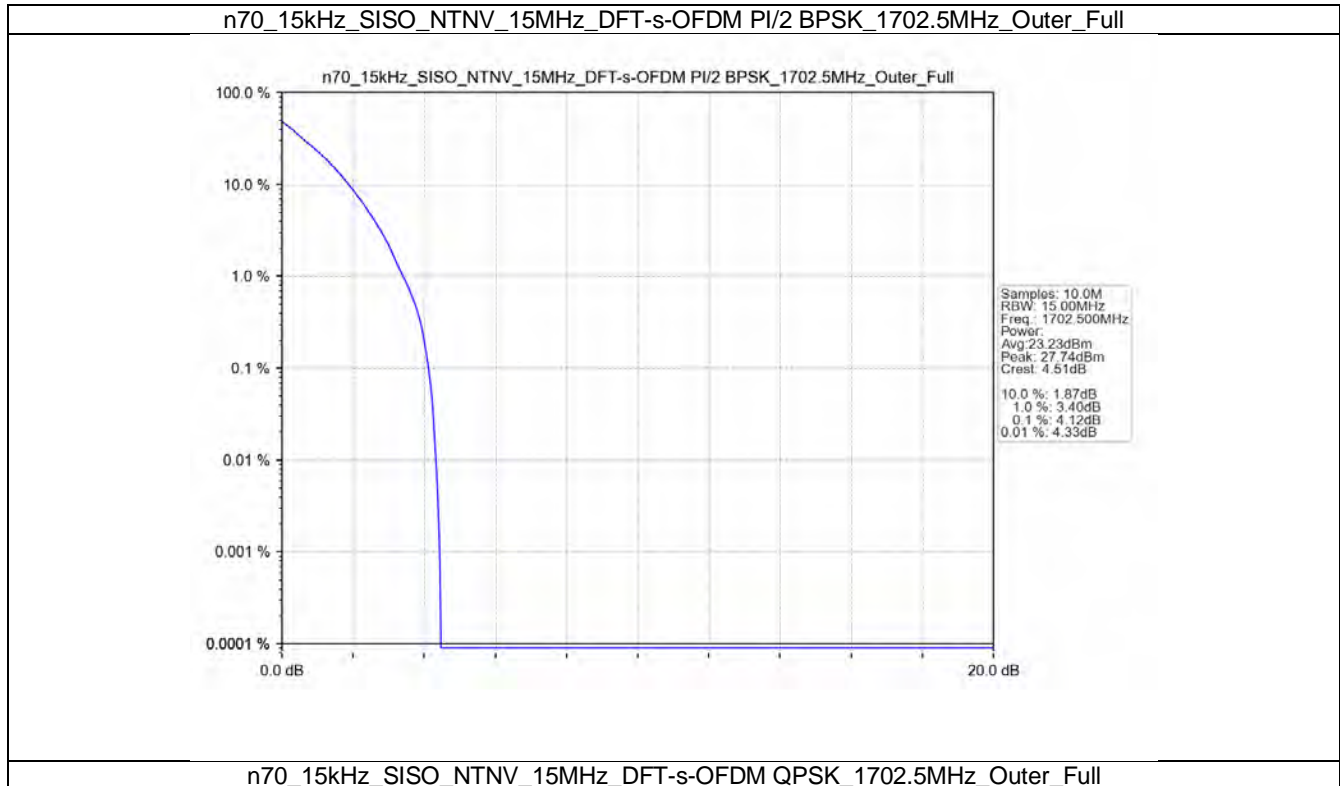


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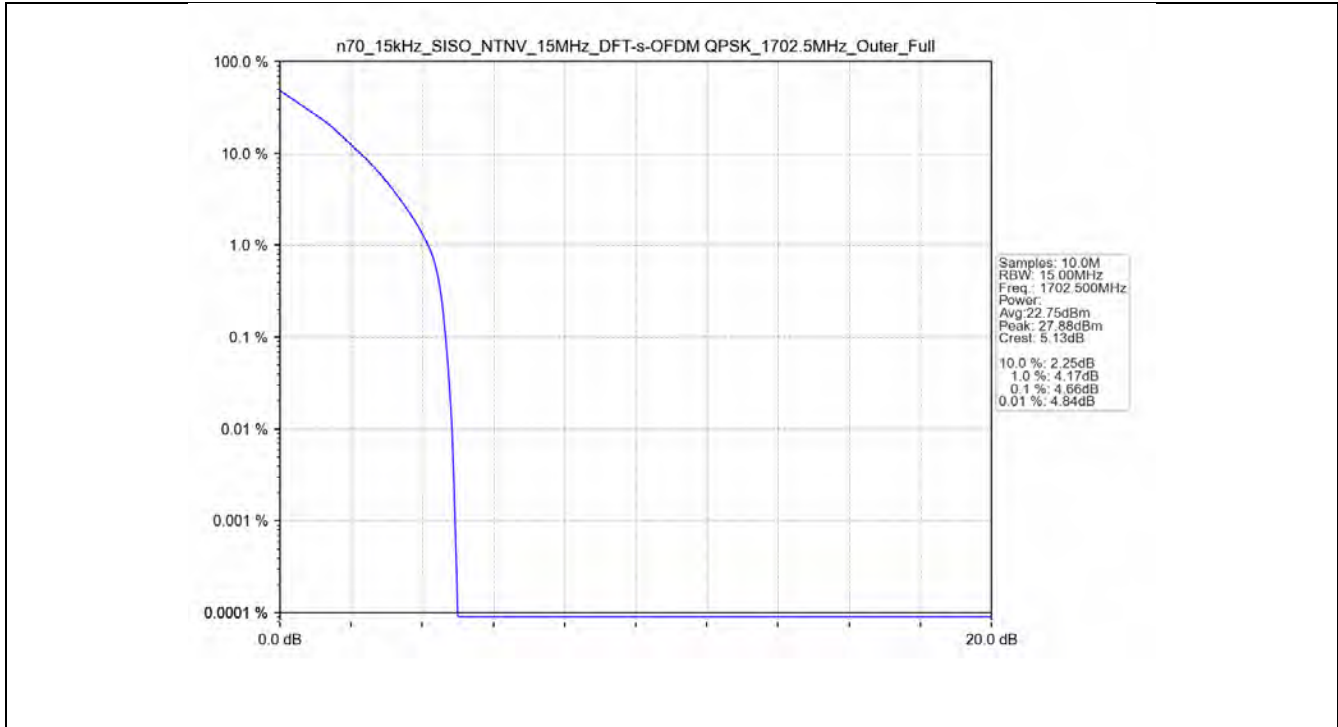


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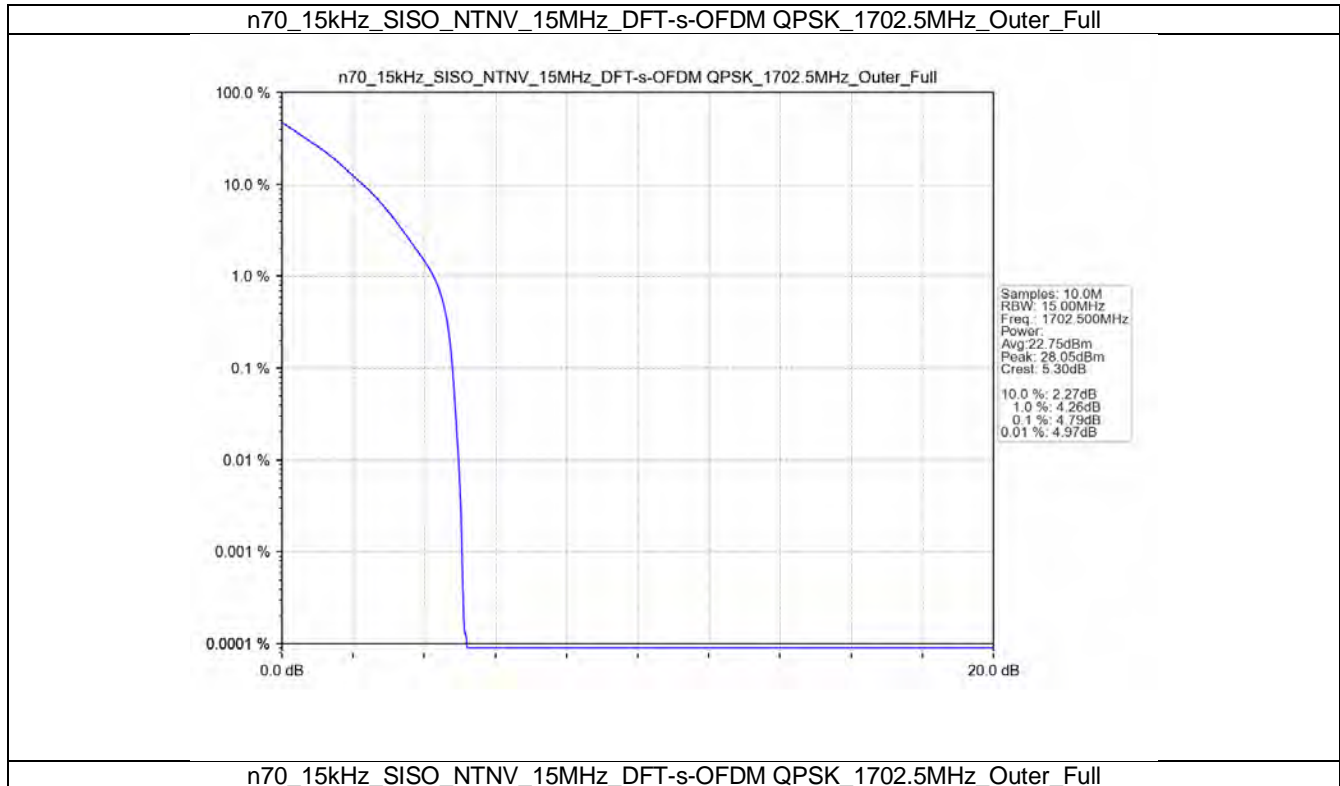


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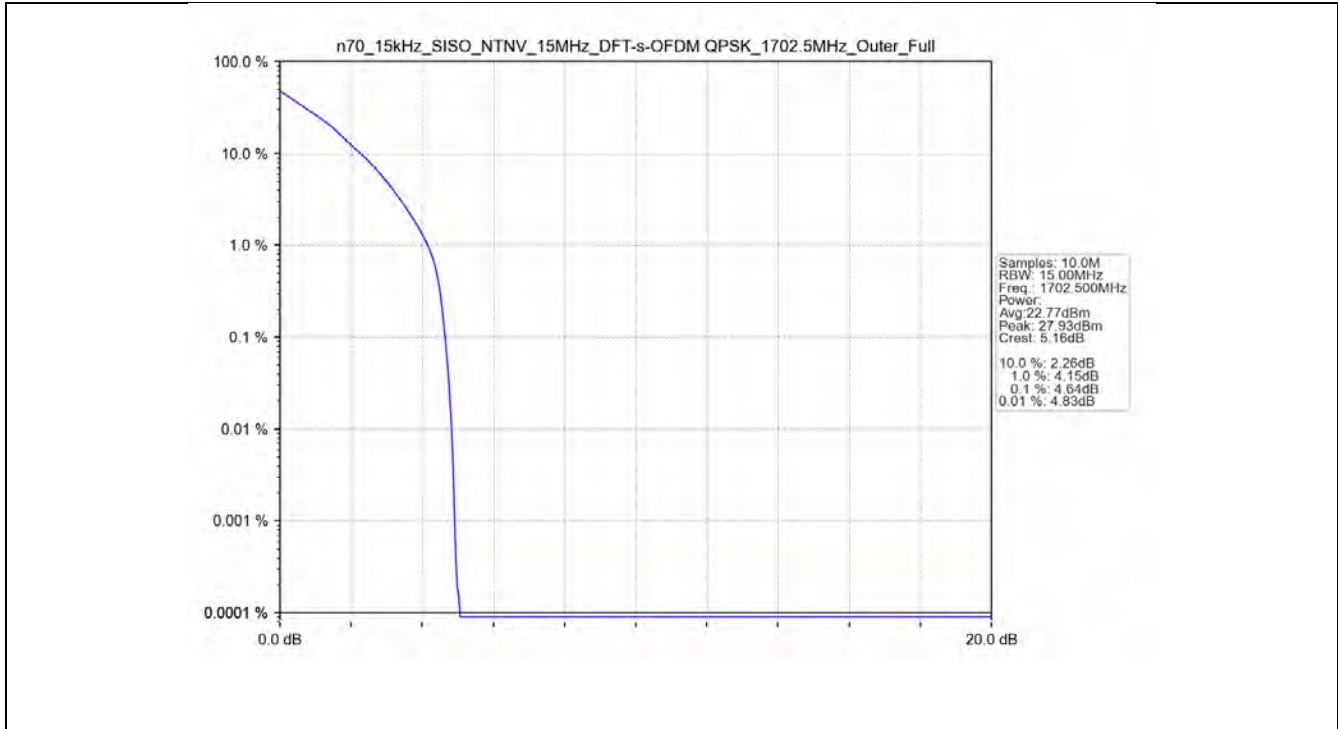


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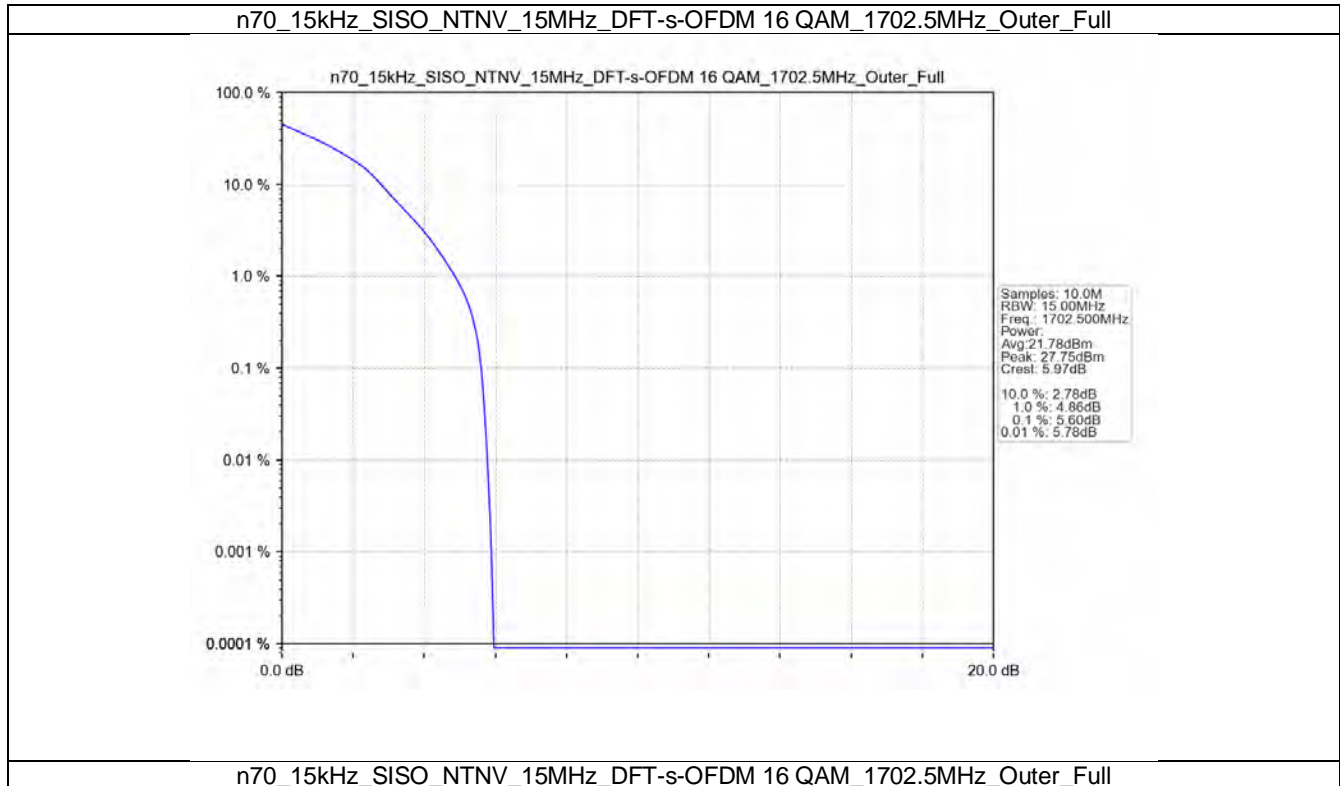


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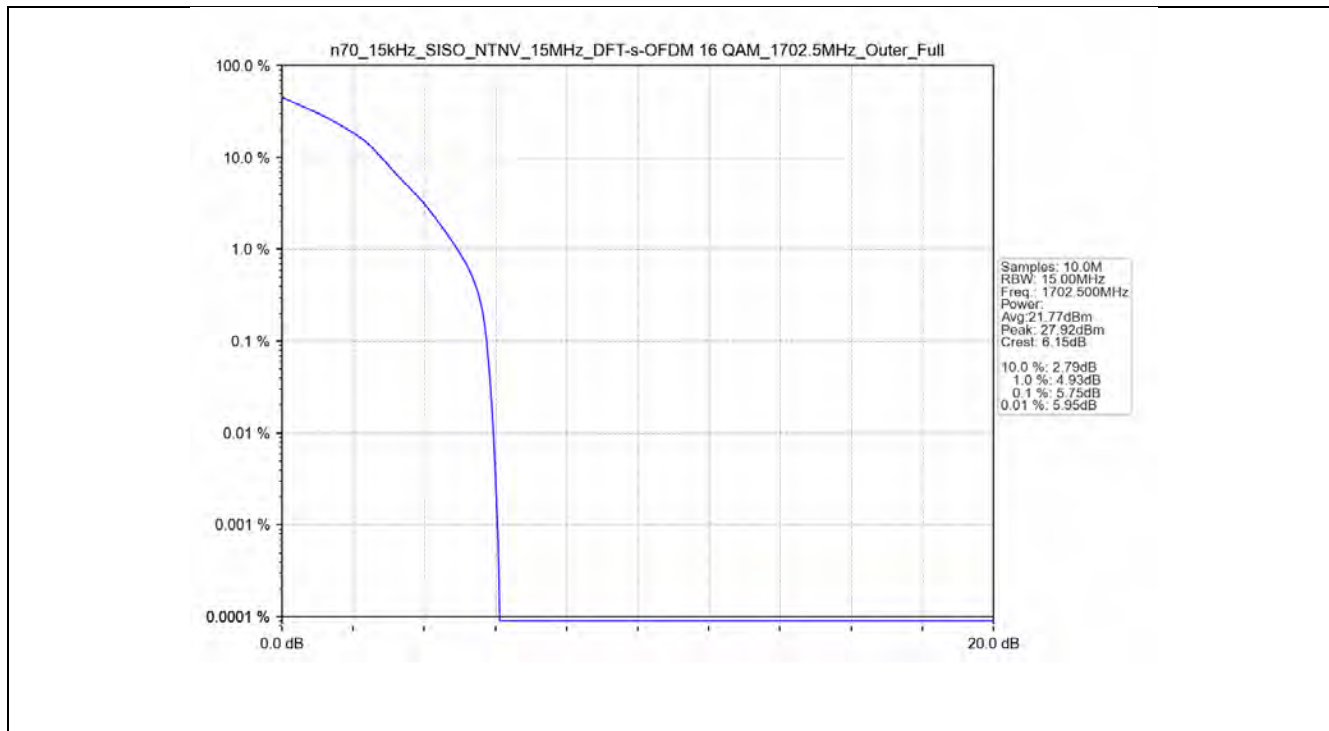
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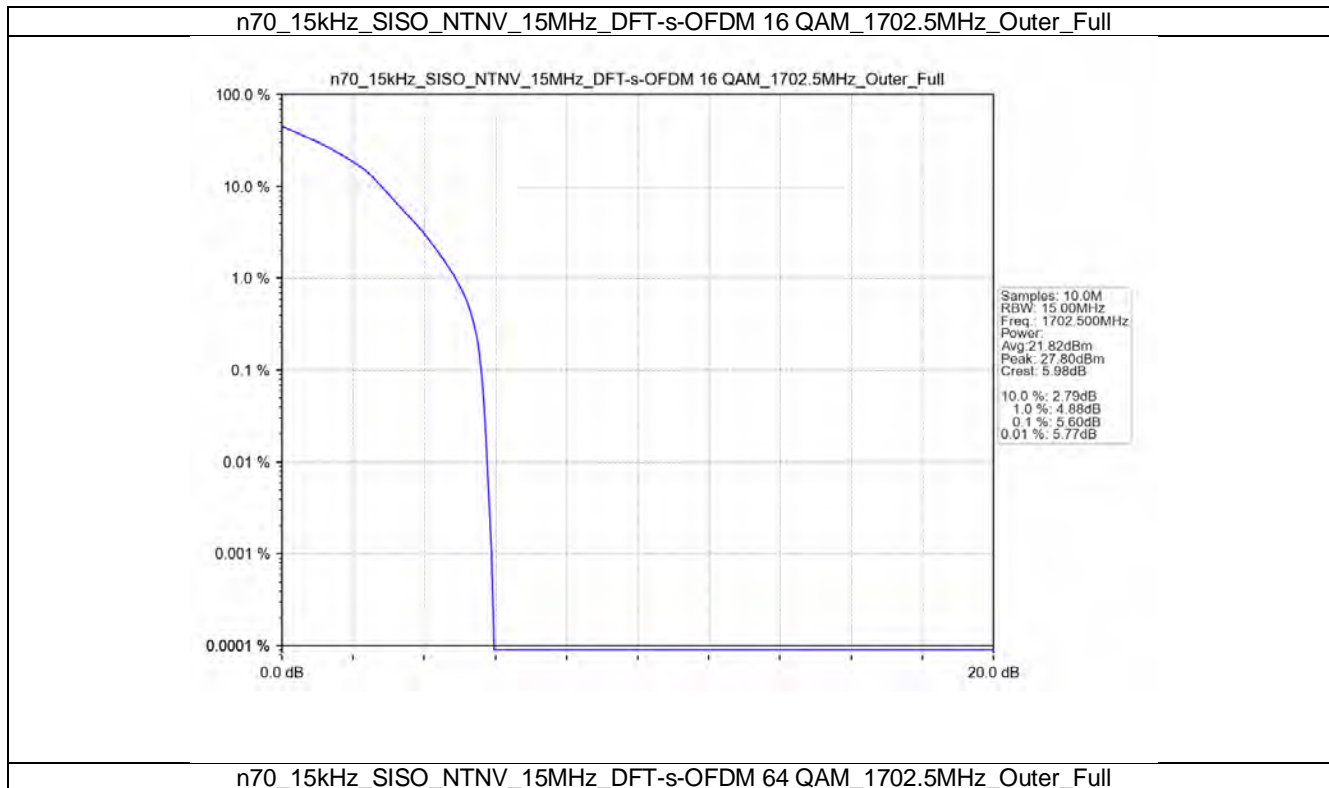
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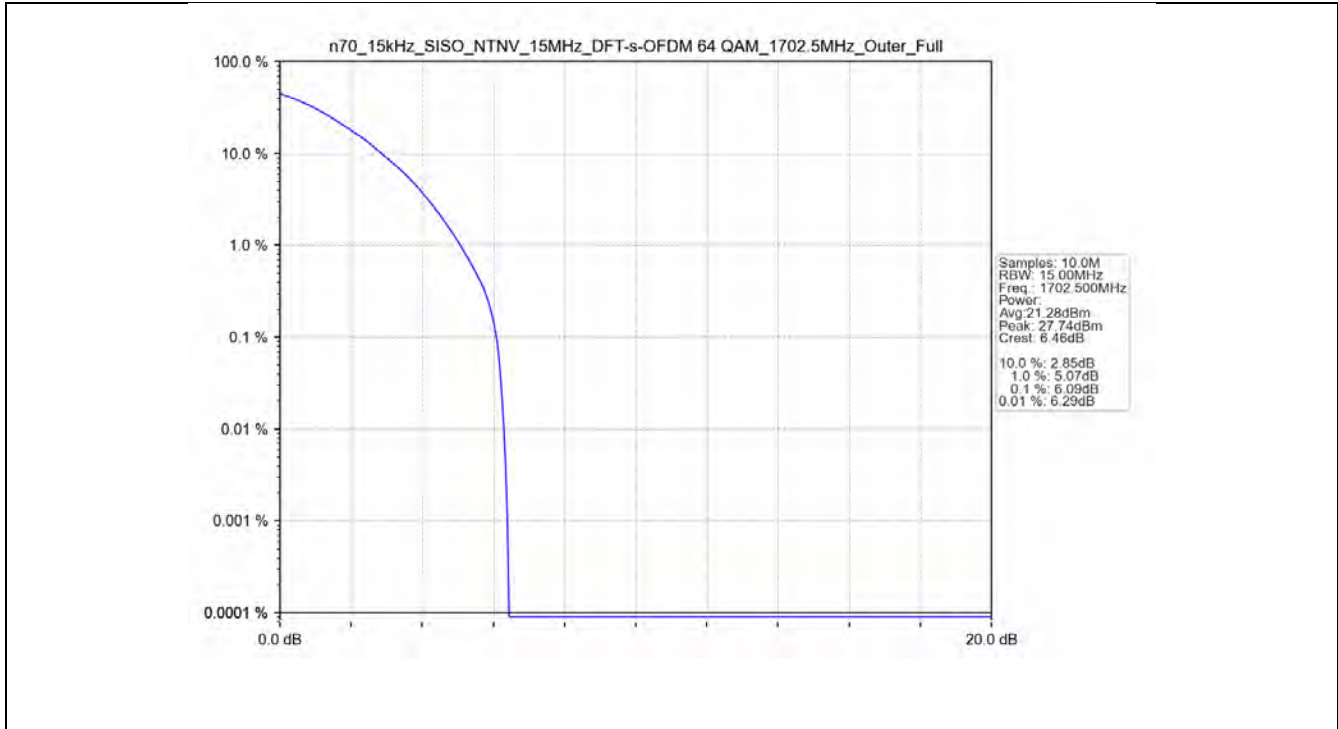


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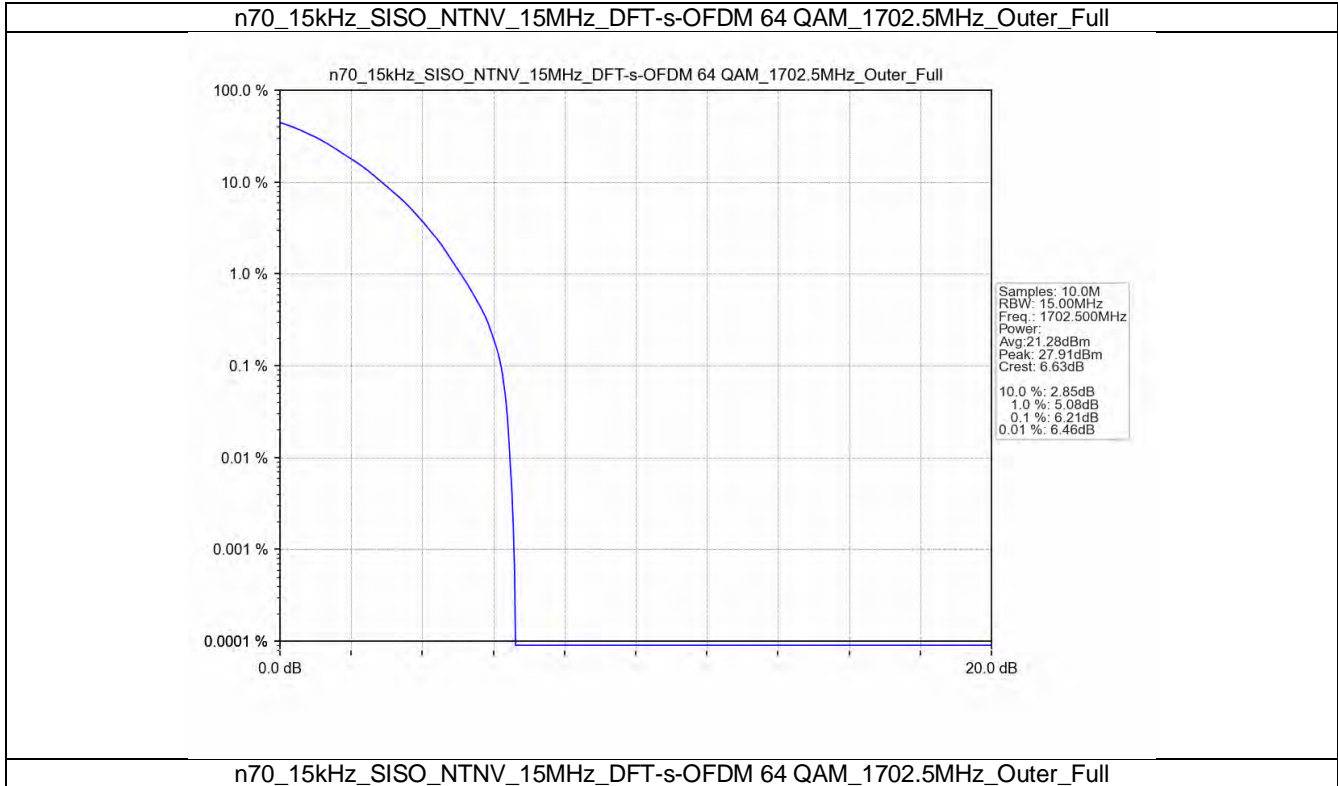


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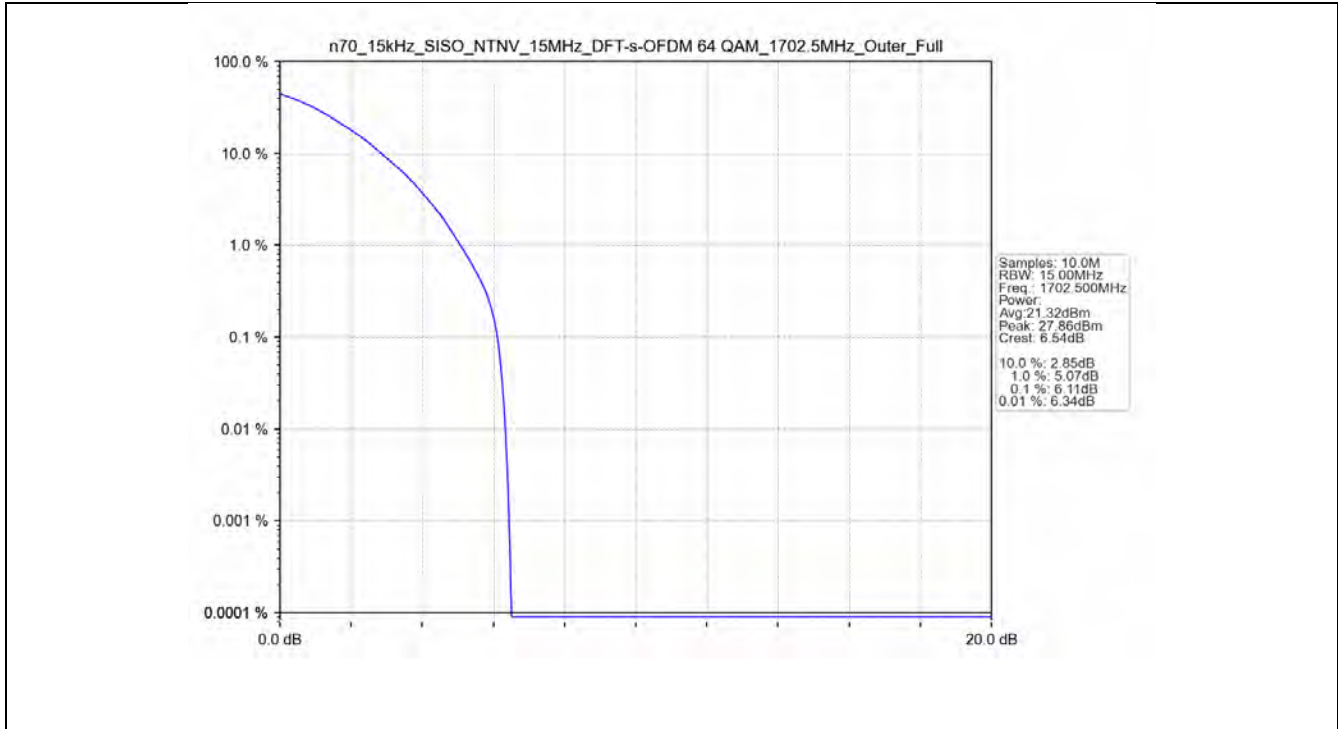


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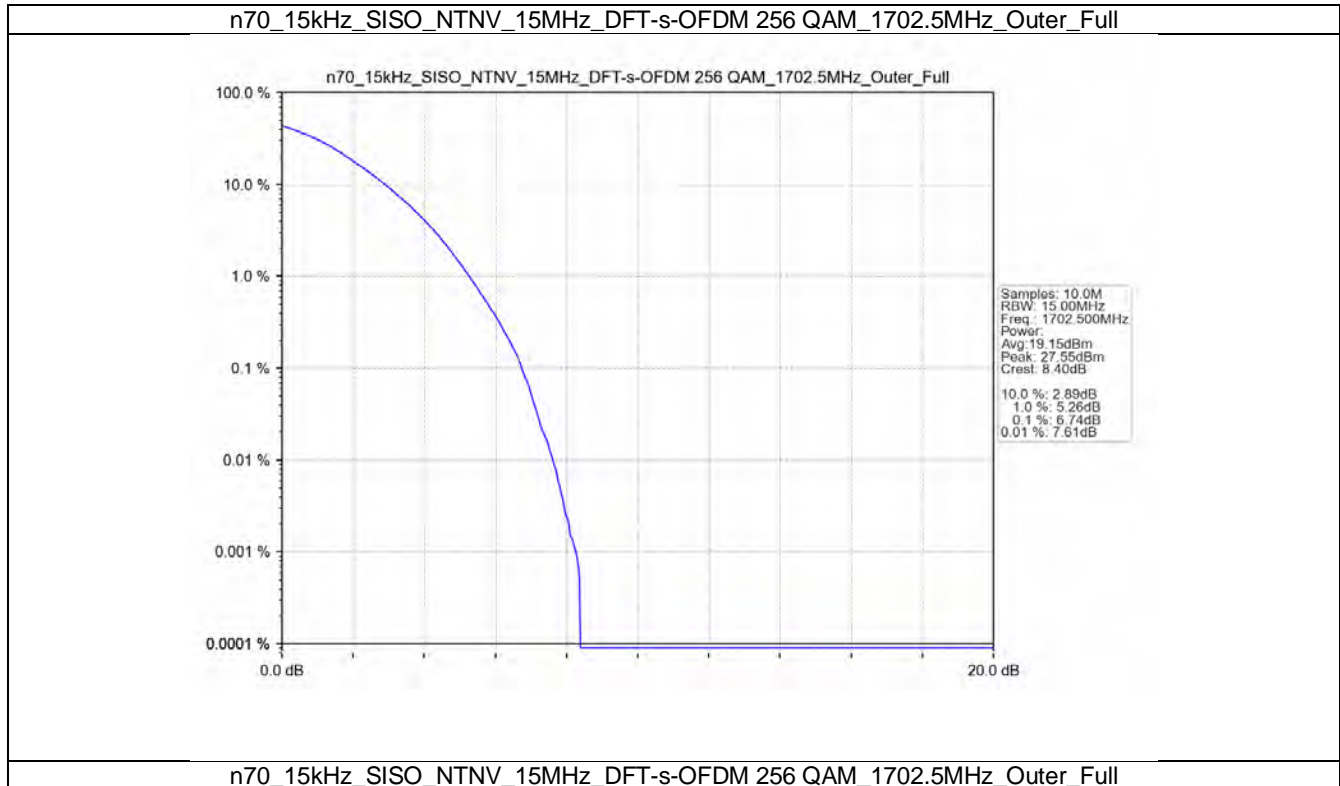


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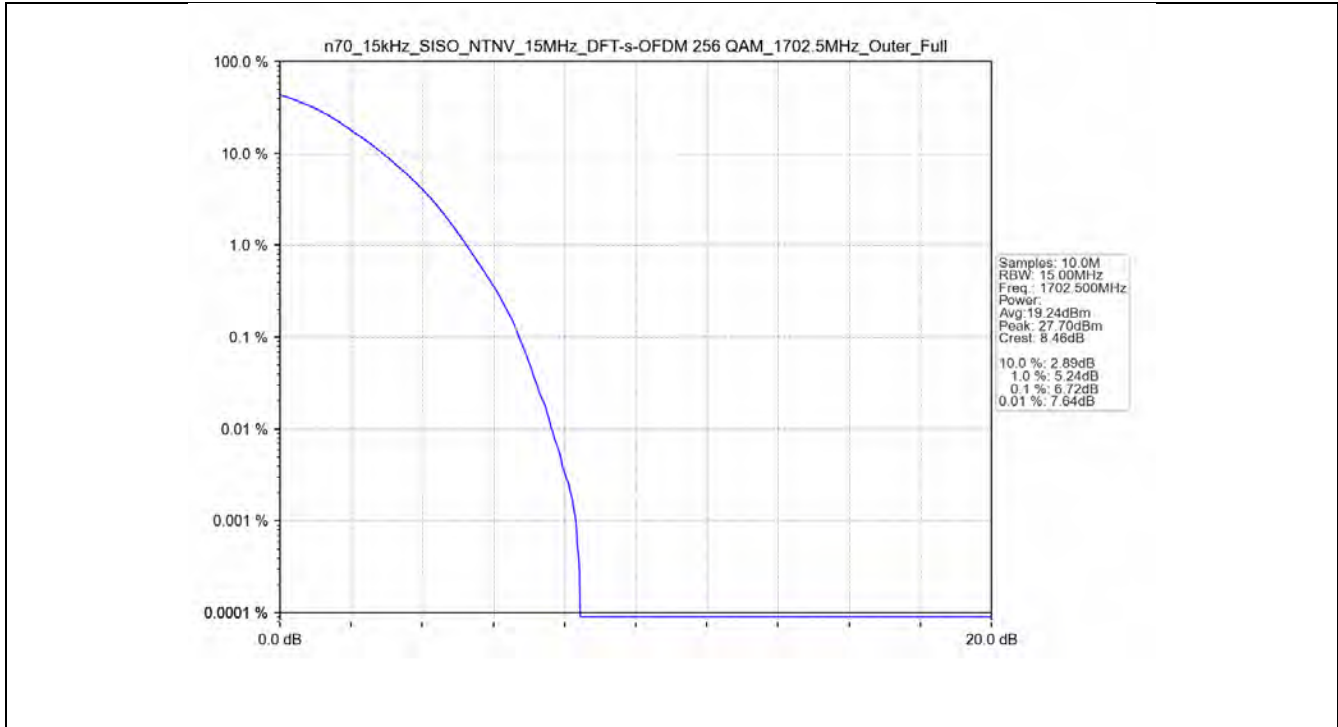


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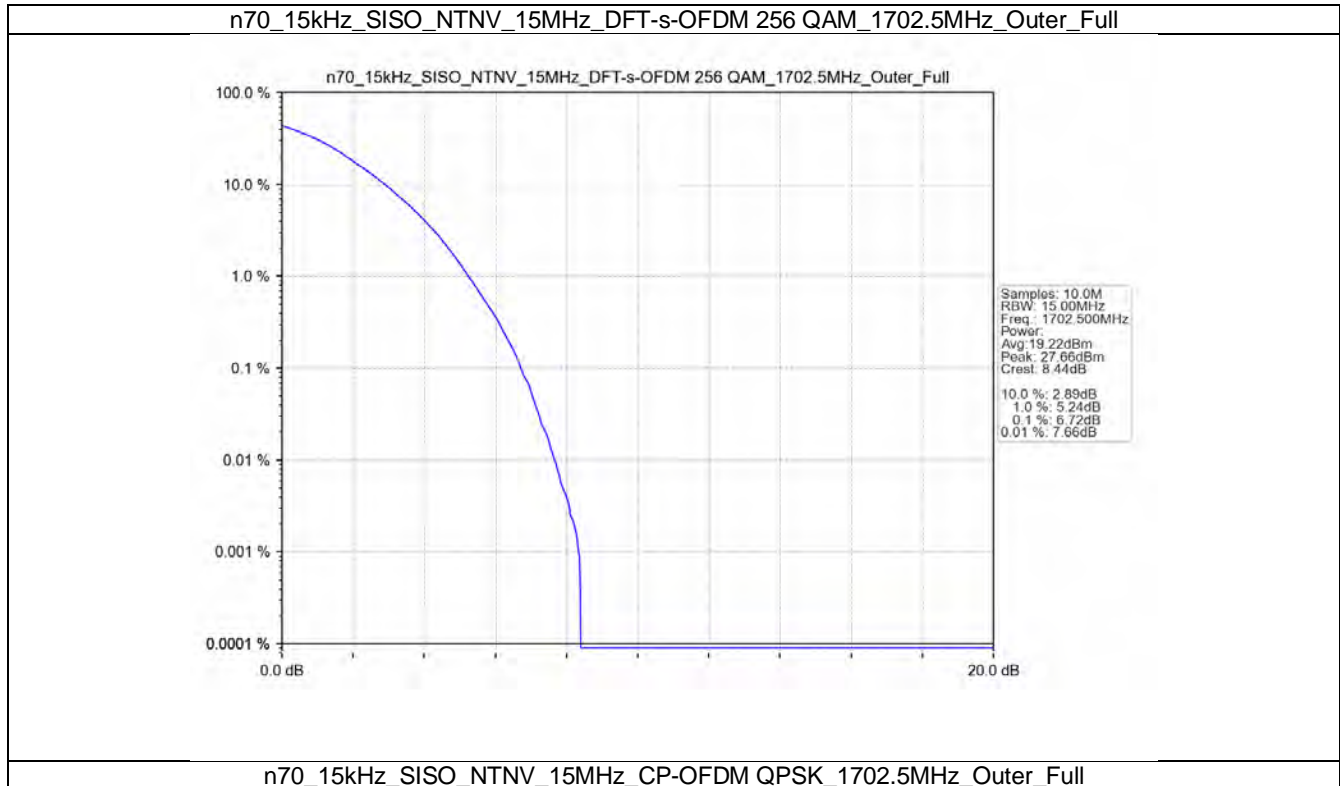


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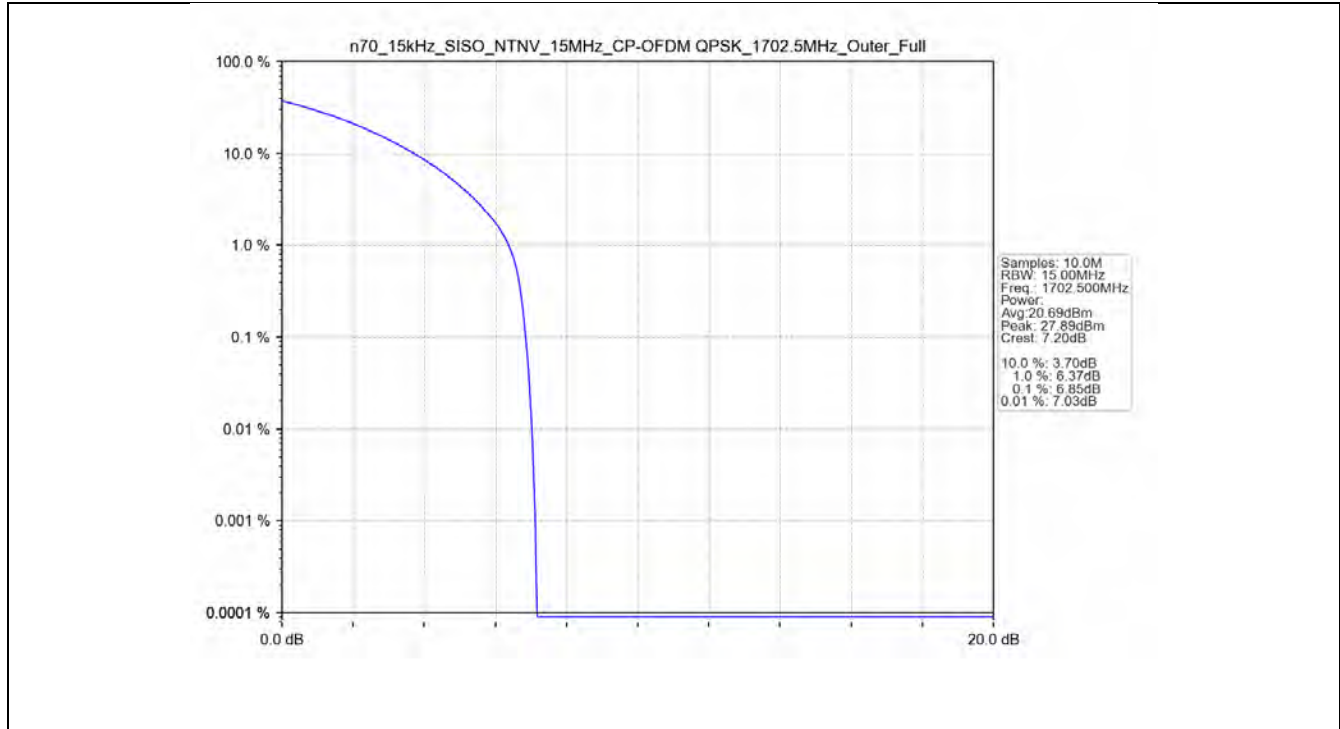


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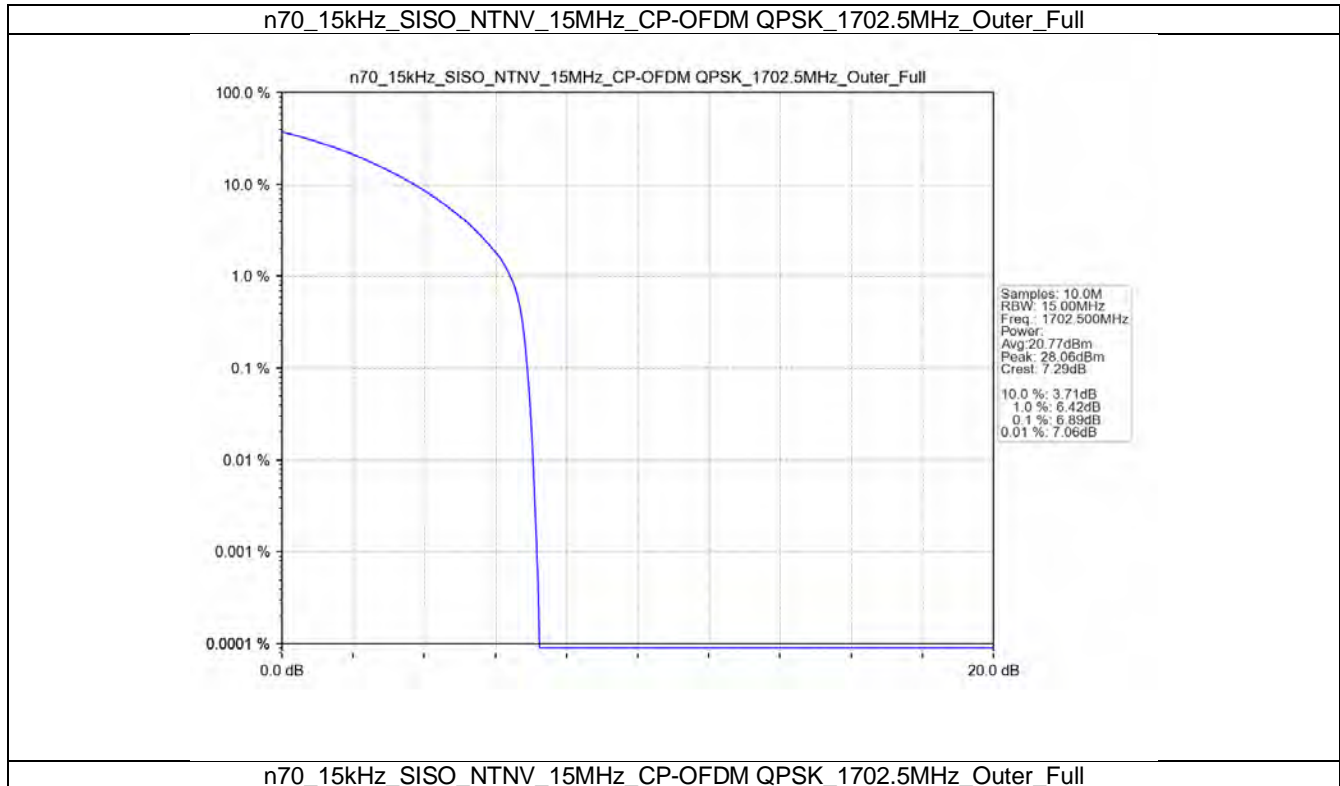


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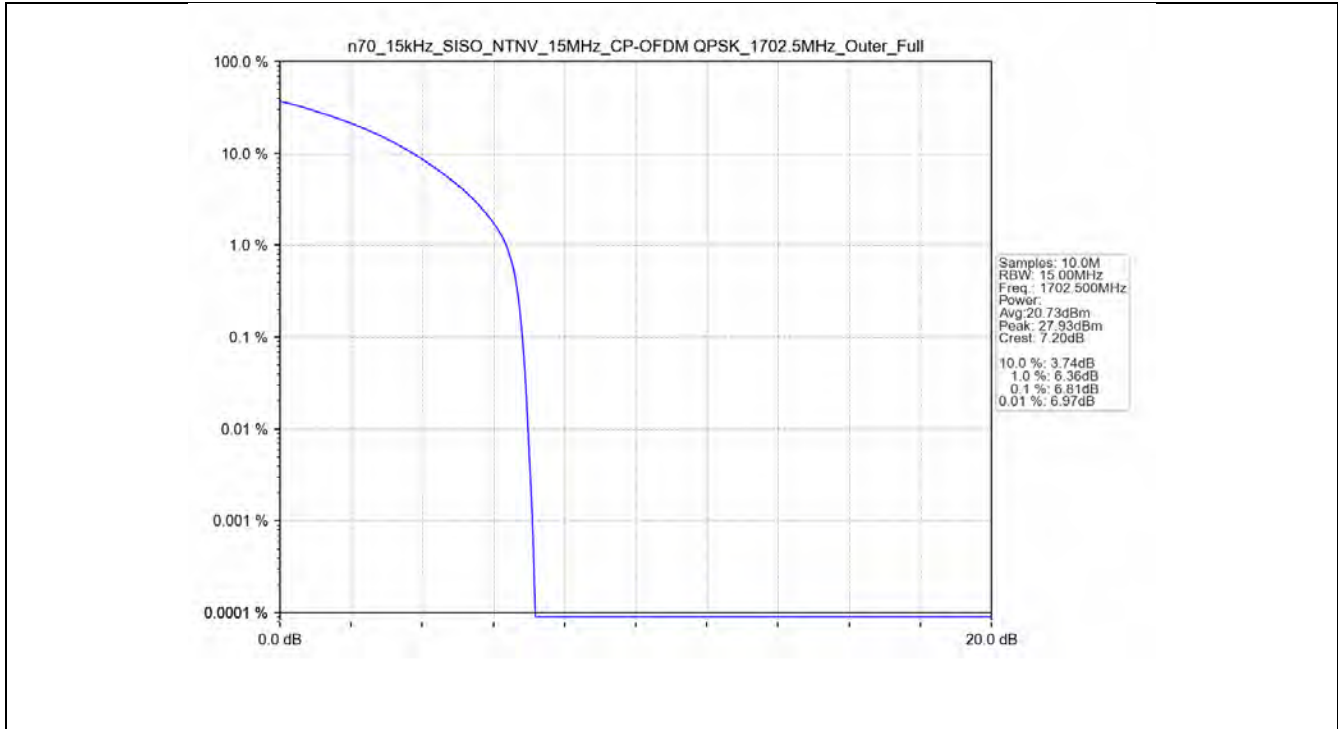


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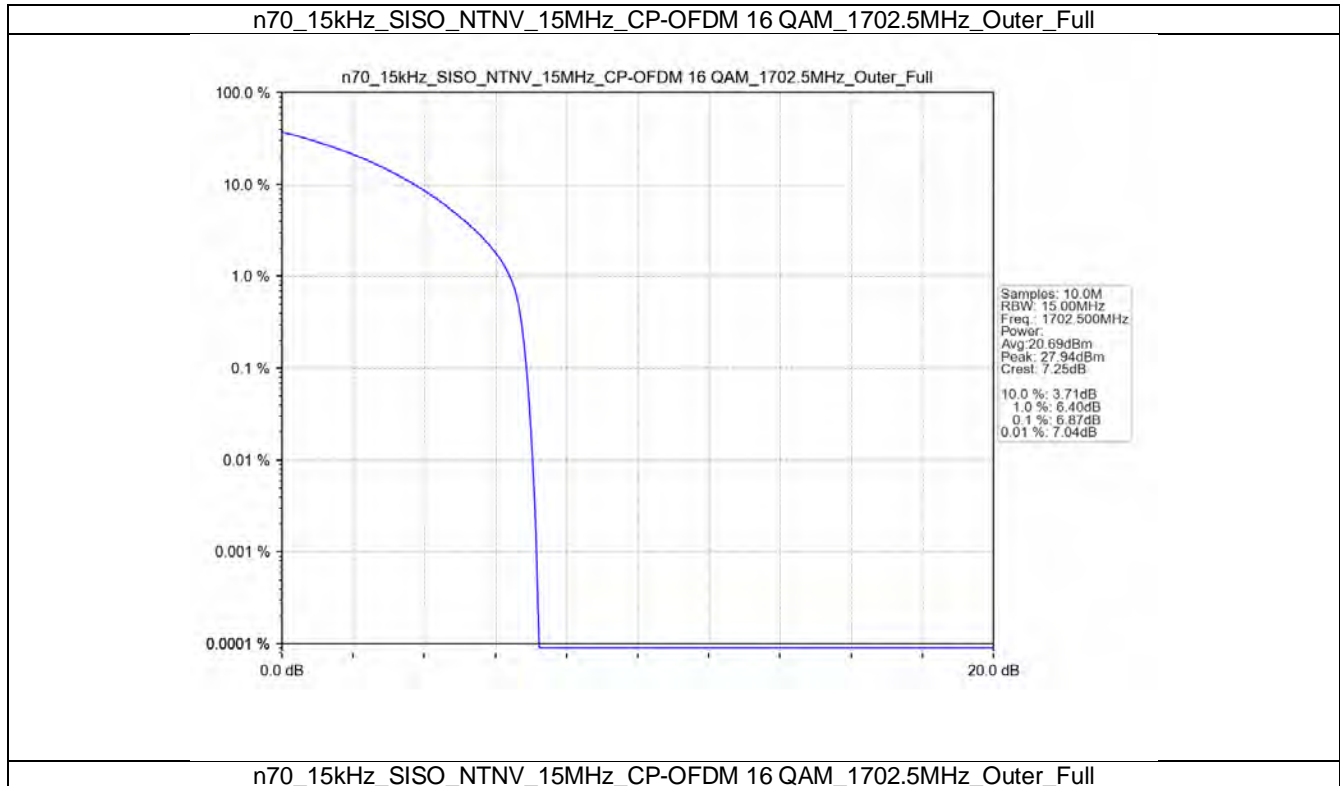


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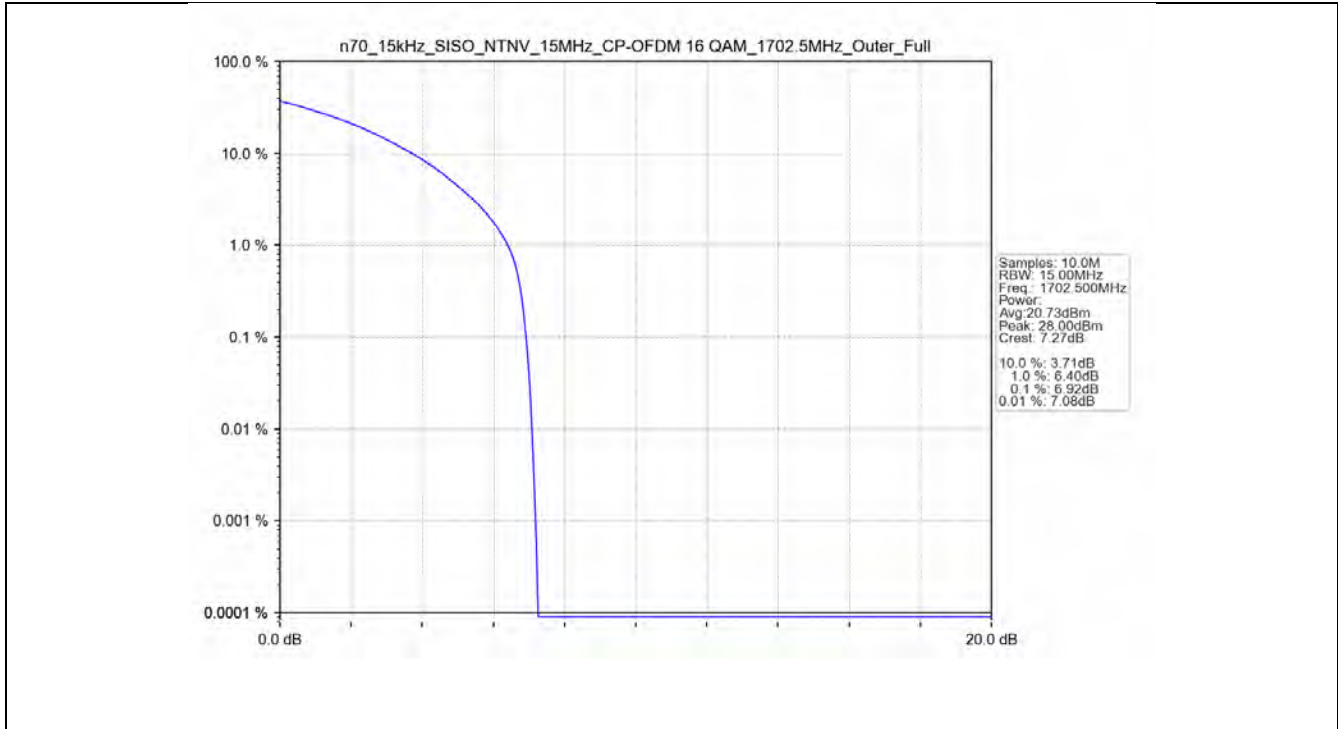


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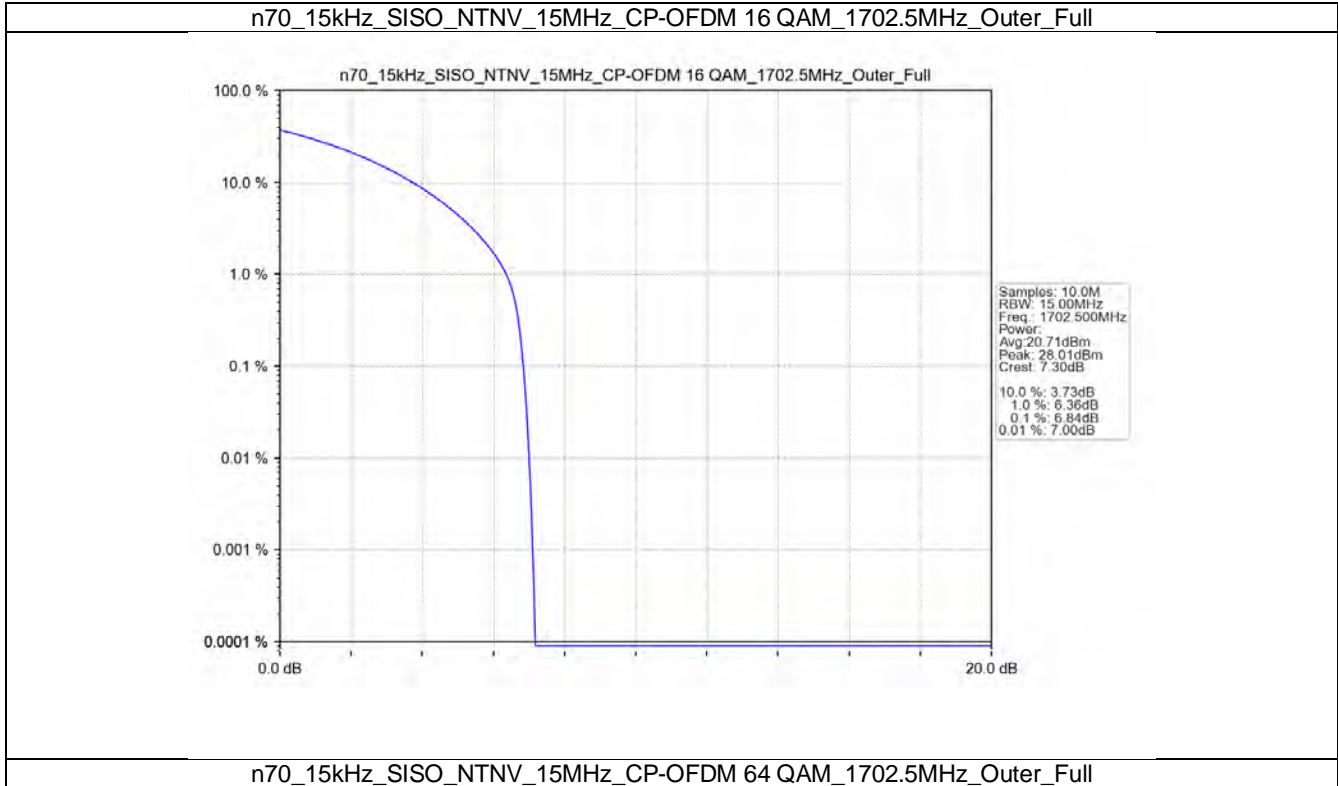


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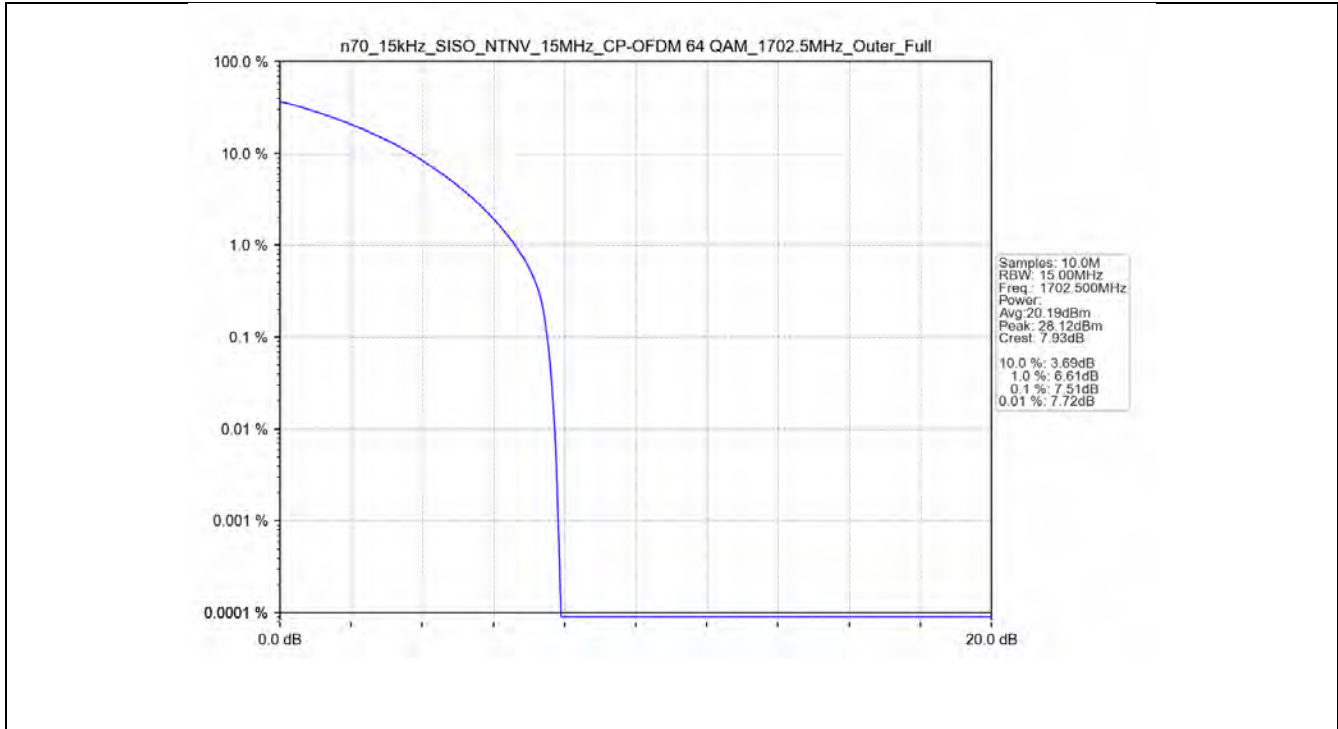


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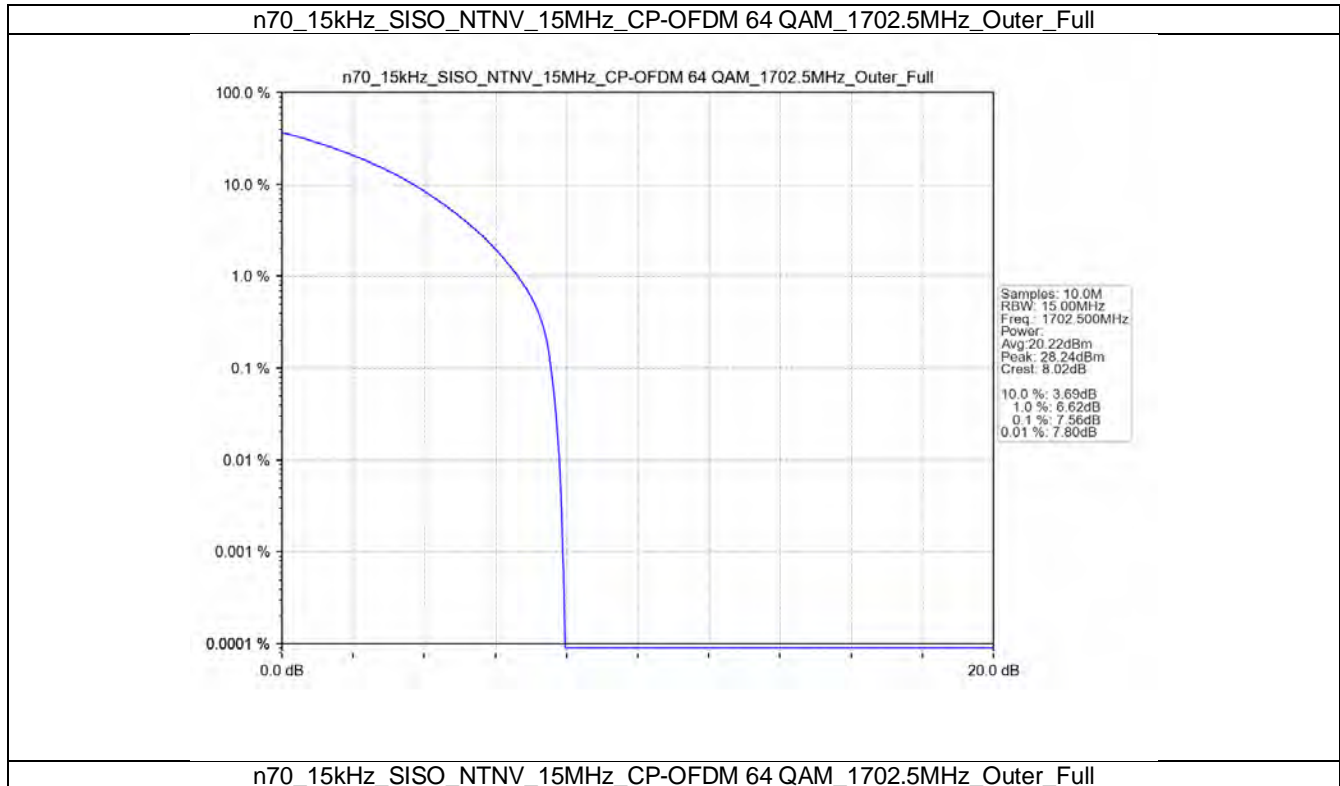


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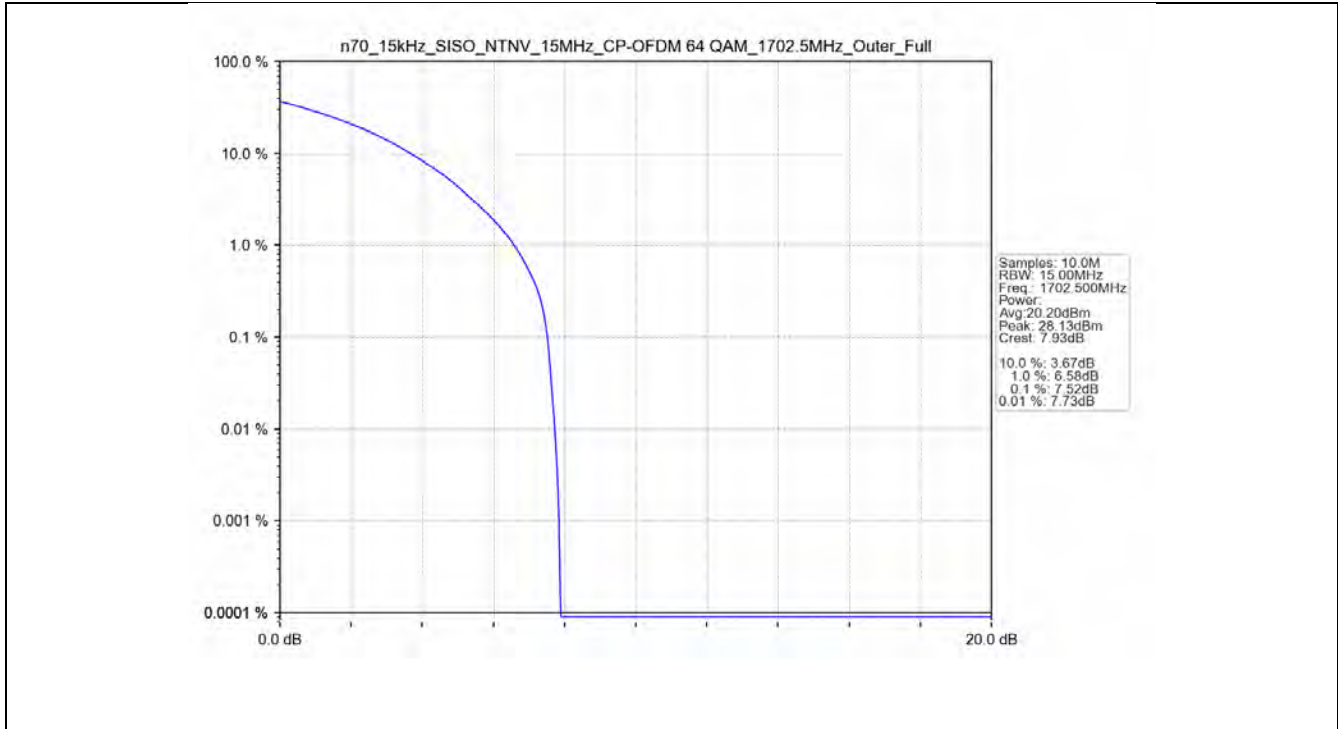


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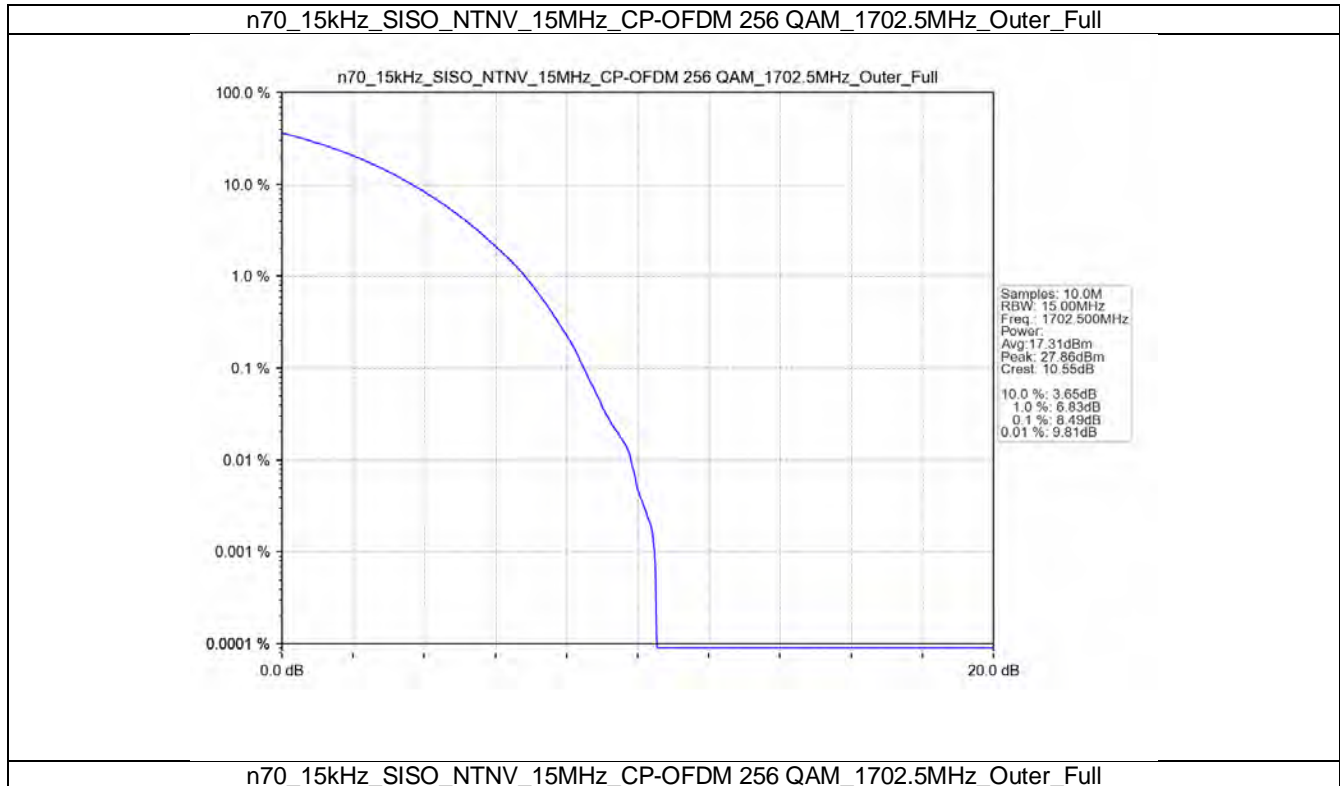


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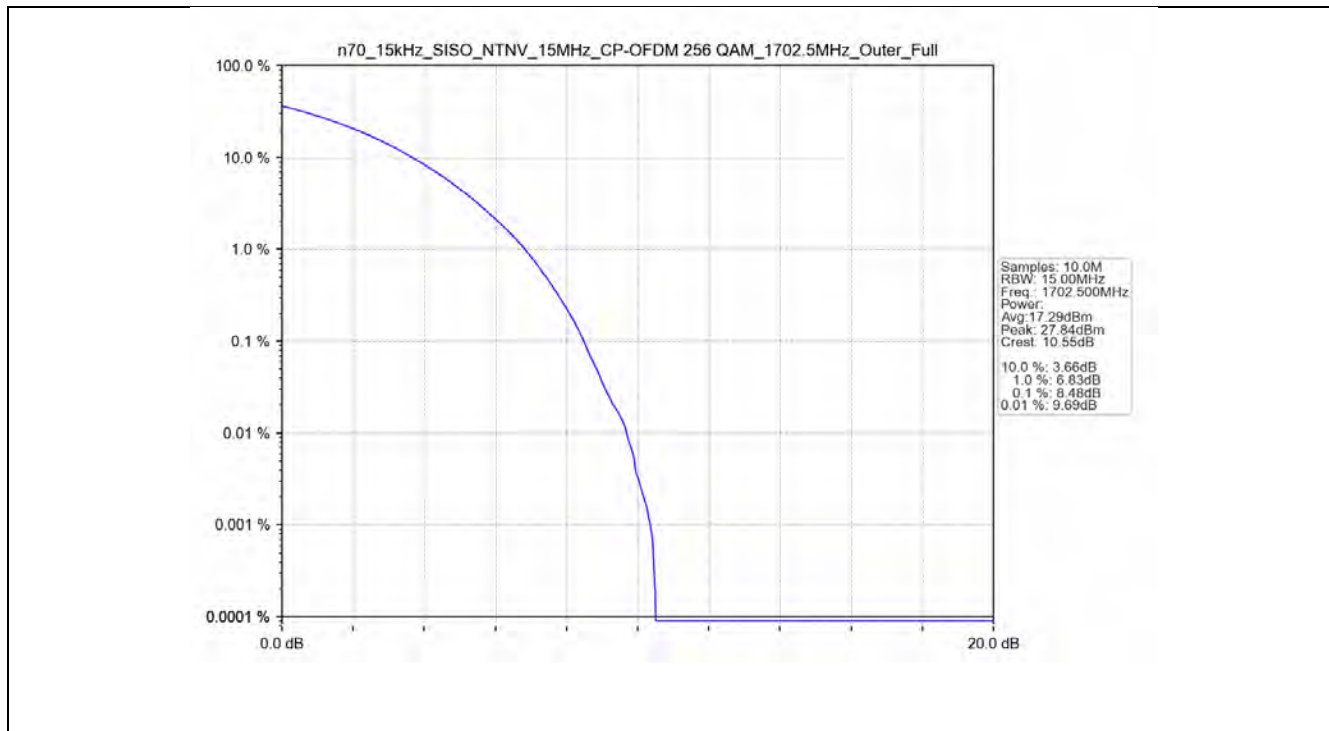
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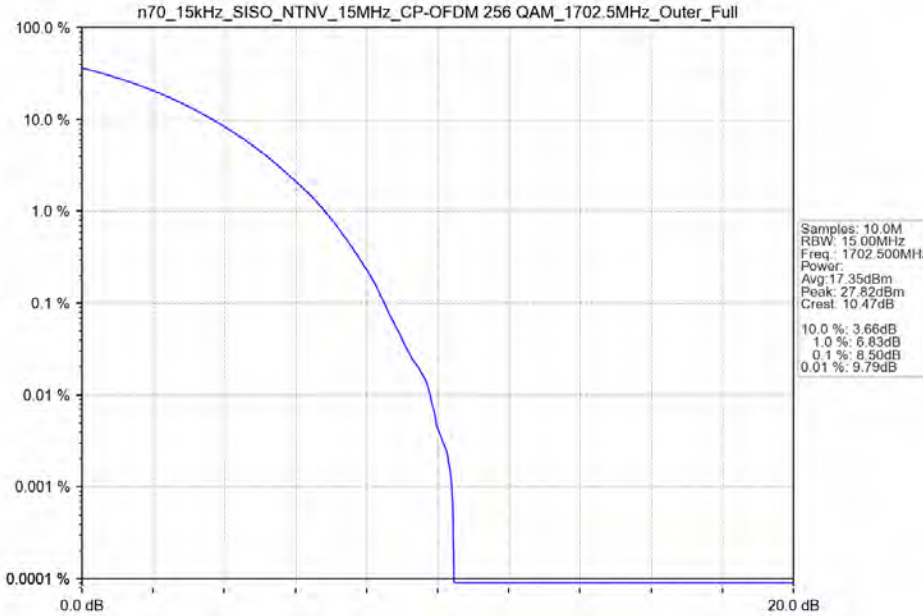
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n70_15kHz_SISO_NTNV_15MHz_CP-OFDM 256 QAM_1702.5MHz_Outer_Full



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5. Spurious Emission & Band Edges

5.1 15k_SISO_5MHz_NTNV

5.1.1 Test Result

| 5G NR n70 SCS=15kHz SISO 5MHz NTN | | | | | | |
|-----------------------------------|-----------------|---------------------|---------------------|------|------|---------|
| Modulation | Frequency (MHz) | RB Allocation | Spurious Emission | | | Verdict |
| | | | Ant1 | Ant2 | Sum | |
| DFT-s-OFDM PI/2 BPSK | 1697.5 | Edge_1RB_Left | Refer To Test Graph | | | Pass |
| | | Outer_Full | Refer To Test Graph | | | Pass |
| | | Inner_1RB_Left | Refer To Test Graph | | | Pass |
| | 1702.5 | Edge_1RB_Left | Refer To Test Graph | | | Pass |
| | | Edge_1RB_Right | Refer To Test Graph | | | Pass |
| | | Outer_Full | Refer To Test Graph | | | Pass |
| 1707.5 | Inner_1RB_Right | Refer To Test Graph | | | Pass | |
| | 1697.5 | Edge_1RB_Left | Refer To Test Graph | | | Pass |
| | | Outer_Full | Refer To Test Graph | | | Pass |
| Inner_1RB_Left | | Refer To Test Graph | | | Pass | |
| 1702.5 | Edge_1RB_Left | Refer To Test Graph | | | Pass | |
| | Edge_1RB_Right | Refer To Test Graph | | | Pass | |
| | Outer_Full | Refer To Test Graph | | | Pass | |
| 1707.5 | Inner_1RB_Right | Refer To Test Graph | | | Pass | |
| | 1697.5 | Edge_1RB_Left | Refer To Test Graph | | | Pass |
| | | Outer_Full | Refer To Test Graph | | | Pass |
| Inner_1RB_Left | | Refer To Test Graph | | | Pass | |
| 1702.5 | Edge_1RB_Left | Refer To Test Graph | | | Pass | |
| | Edge_1RB_Right | Refer To Test Graph | | | Pass | |
| | Outer_Full | Refer To Test Graph | | | Pass | |
| 1707.5 | Inner_1RB_Right | Refer To Test Graph | | | Pass | |



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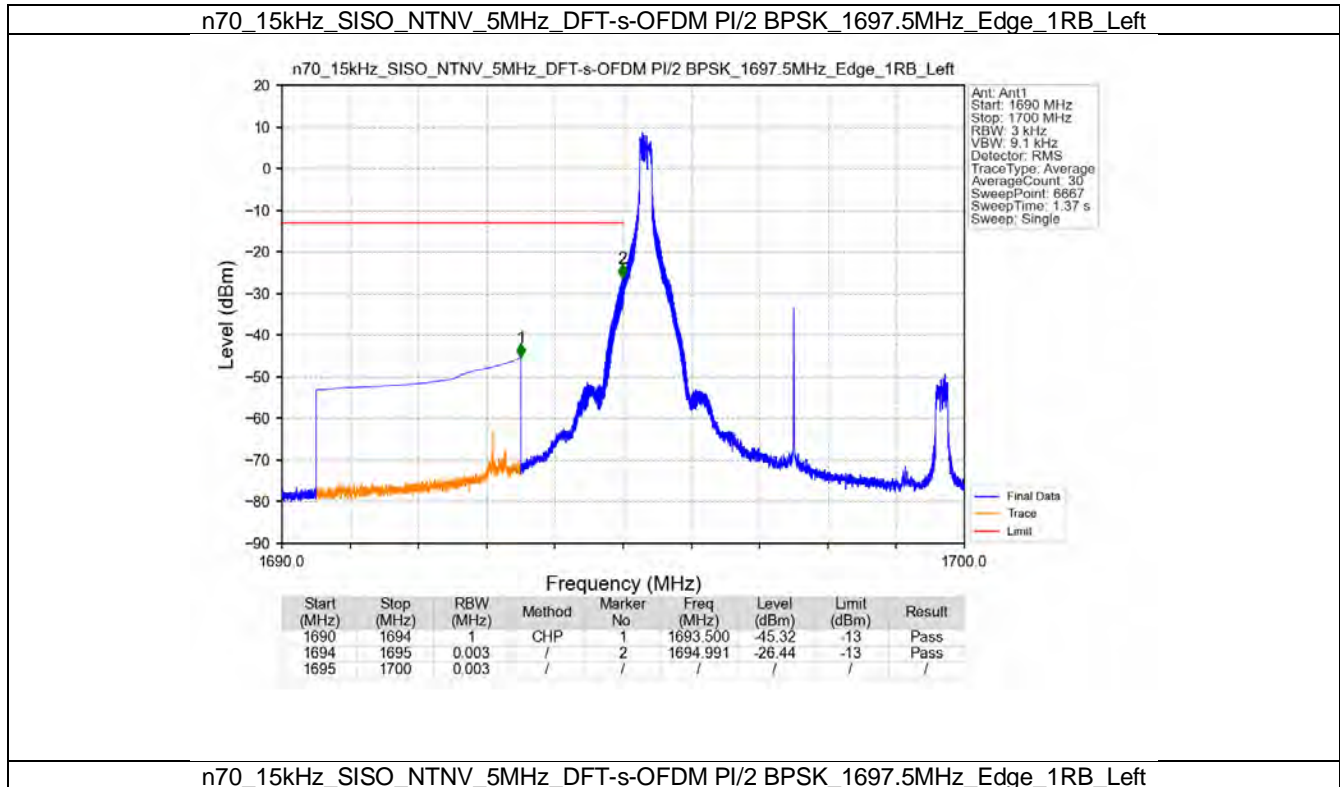
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5.1.2 Test Graph



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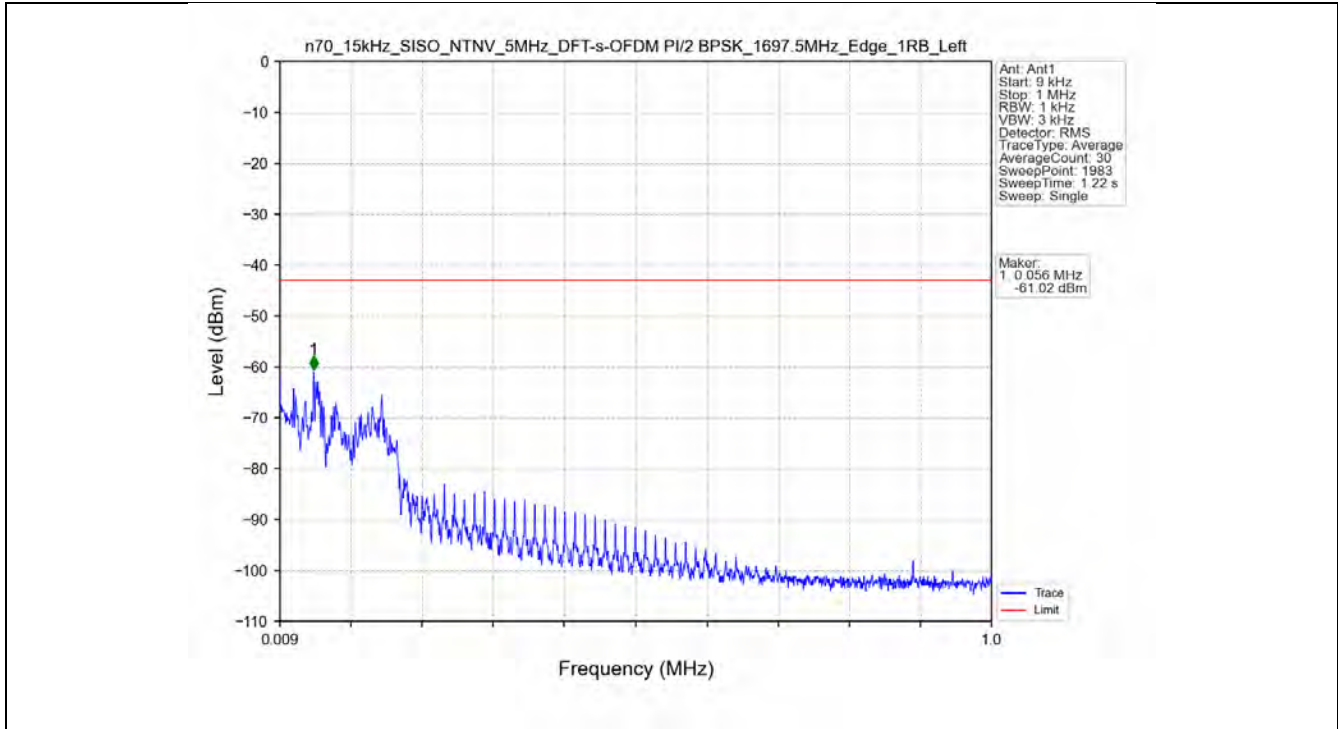


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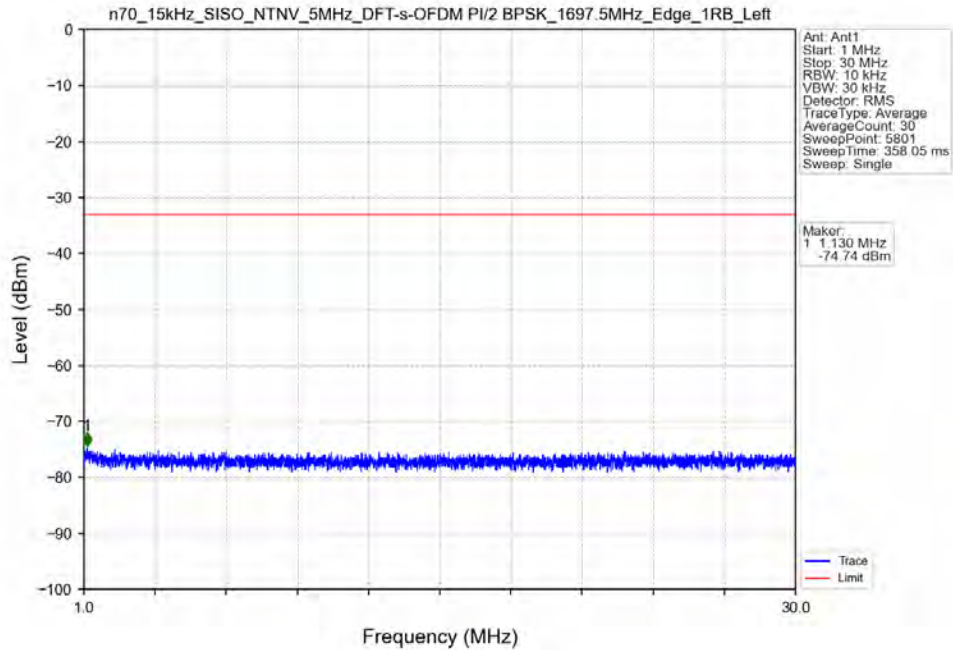
**SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch**

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n70_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_1697.5MHz_Edge_1RB_Left



n70_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_1697.5MHz_Edge_1RB_Left



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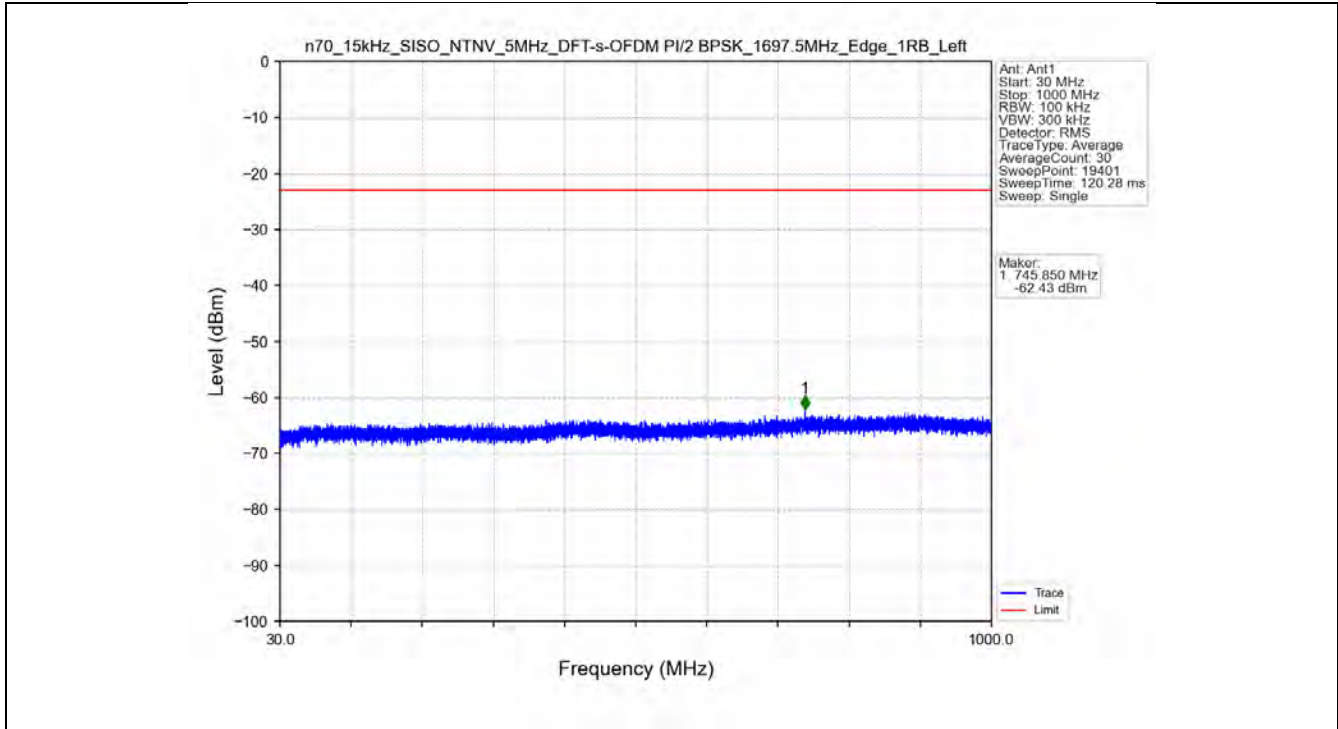


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