



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

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| | | | | | | | | |
|-----------------|------|------------|-----|----|--------|---------|---|------|
| | | | 30 | NV | -17.20 | -0.0046 | / | Pass |
| | | | 40 | NV | -15.10 | -0.0040 | / | Pass |
| | | | 50 | NV | -20.30 | -0.0054 | / | Pass |
| CP-OFDM 256 QAM | 3750 | Outer_Full | 20 | LV | -9.20 | -0.0025 | / | Pass |
| | | | | HV | -8.60 | -0.0023 | / | Pass |
| | | | -30 | NV | -15.10 | -0.0040 | / | Pass |
| | | | -20 | NV | -8.10 | -0.0022 | / | Pass |
| | | | -10 | NV | -18.90 | -0.0050 | / | Pass |
| | | | 0 | NV | -22.60 | -0.0060 | / | Pass |
| | | | 10 | NV | -13.60 | -0.0036 | / | Pass |
| | | | 20 | NV | -15.20 | -0.0041 | / | Pass |
| | | | 30 | NV | -18.50 | -0.0049 | / | Pass |
| | | | 40 | NV | -20.90 | -0.0056 | / | Pass |
| | | | 50 | NV | -12.00 | -0.0032 | / | Pass |

2.2 30k_SISO_30MHz

2.2.1 Test Result

| 5G NR n78a SCS=30kHz SISO 30MHz | | | | | | | | |
|---------------------------------|-----------------|---------------|------------|-------|------------------|-----------------------|-------|---------|
| Modulation | Frequency (MHz) | RB Allocation | Temp. (°C) | Volt. | Freq. Error (Hz) | Freq. vs. rated (ppm) | | Verdict |
| | | | | | | Result | Limit | |
| DFT-s-OFDM PI/2 BPSK | 3750 | Outer_Full | 20 | LV | -18.50 | -0.0049 | / | Pass |
| | | | | HV | -3.20 | -0.0009 | / | Pass |
| | | | -30 | NV | 2.90 | 0.0008 | / | Pass |
| | | | -20 | NV | -10.50 | -0.0028 | / | Pass |
| | | | -10 | NV | -9.80 | -0.0026 | / | Pass |
| | | | 0 | NV | -18.40 | -0.0049 | / | Pass |
| | | | 10 | NV | -13.90 | -0.0037 | / | Pass |
| | | | 20 | NV | -16.20 | -0.0043 | / | Pass |
| | | | 30 | NV | -16.70 | -0.0045 | / | Pass |
| | | | 40 | NV | -8.30 | -0.0022 | / | Pass |
| 50 | NV | -14.40 | -0.0038 | / | Pass | | | |
| DFT-s-OFDM QPSK | 3750 | Outer_Full | 20 | LV | -3.90 | -0.0010 | / | Pass |
| | | | | HV | -15.90 | -0.0042 | / | Pass |
| | | | -30 | NV | -14.70 | -0.0039 | / | Pass |
| | | | -20 | NV | -10.40 | -0.0028 | / | Pass |
| | | | -10 | NV | -12.80 | -0.0034 | / | Pass |
| | | | 0 | NV | -3.80 | -0.0010 | / | Pass |
| | | | 10 | NV | 5.90 | 0.0016 | / | Pass |
| | | | 20 | NV | -5.60 | -0.0015 | / | Pass |
| | | | 30 | NV | -14.80 | -0.0039 | / | Pass |
| | | | 40 | NV | -11.00 | -0.0029 | / | Pass |
| 50 | NV | -11.10 | -0.0030 | / | Pass | | | |
| DFT-s-OFDM 16 QAM | 3750 | Outer_Full | 20 | LV | -12.20 | -0.0033 | / | Pass |
| | | | | HV | -14.60 | -0.0039 | / | Pass |



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|--------------------|------|------------|-----|----|--------|---------|---|------|
| | | | -30 | NV | -2.50 | -0.0007 | / | Pass |
| | | | -20 | NV | -7.80 | -0.0021 | / | Pass |
| | | | -10 | NV | -18.40 | -0.0049 | / | Pass |
| | | | 0 | NV | -14.40 | -0.0038 | / | Pass |
| | | | 10 | NV | -6.90 | -0.0018 | / | Pass |
| | | | 20 | NV | -14.20 | -0.0038 | / | Pass |
| | | | 30 | NV | -10.90 | -0.0029 | / | Pass |
| | | | 40 | NV | -25.10 | -0.0067 | / | Pass |
| | | | 50 | NV | -6.40 | -0.0017 | / | Pass |
| DFT-s-OFDM 64 QAM | 3750 | Outer_Full | 20 | LV | -5.30 | -0.0014 | / | Pass |
| | | | | HV | -5.30 | -0.0014 | / | Pass |
| | | | -30 | NV | -8.10 | -0.0022 | / | Pass |
| | | | -20 | NV | -7.00 | -0.0019 | / | Pass |
| | | | -10 | NV | -5.80 | -0.0015 | / | Pass |
| | | | 0 | NV | -7.70 | -0.0021 | / | Pass |
| | | | 10 | NV | 2.20 | 0.0006 | / | Pass |
| | | | 20 | NV | -14.00 | -0.0037 | / | Pass |
| | | | 30 | NV | -20.80 | -0.0055 | / | Pass |
| | | | 40 | NV | 4.90 | 0.0013 | / | Pass |
| | | | 50 | NV | -6.80 | -0.0018 | / | Pass |
| DFT-s-OFDM 256 QAM | 3750 | Outer_Full | 20 | LV | -18.80 | -0.0050 | / | Pass |
| | | | | HV | -3.80 | -0.0010 | / | Pass |
| | | | -30 | NV | -20.70 | -0.0055 | / | Pass |
| | | | -20 | NV | -2.10 | -0.0006 | / | Pass |
| | | | -10 | NV | -9.80 | -0.0026 | / | Pass |
| | | | 0 | NV | -14.10 | -0.0038 | / | Pass |
| | | | 10 | NV | -6.60 | -0.0018 | / | Pass |
| | | | 20 | NV | -18.00 | -0.0048 | / | Pass |
| | | | 30 | NV | -13.70 | -0.0037 | / | Pass |
| | | | 40 | NV | -19.60 | -0.0052 | / | Pass |
| | | | 50 | NV | -6.60 | -0.0018 | / | Pass |
| CP-OFDM QPSK | 3750 | Outer_Full | 20 | LV | -12.40 | -0.0033 | / | Pass |
| | | | | HV | -15.40 | -0.0041 | / | Pass |
| | | | -30 | NV | -15.80 | -0.0042 | / | Pass |
| | | | -20 | NV | -14.60 | -0.0039 | / | Pass |
| | | | -10 | NV | 2.30 | 0.0006 | / | Pass |
| | | | 0 | NV | -19.80 | -0.0053 | / | Pass |
| | | | 10 | NV | -7.90 | -0.0021 | / | Pass |
| | | | 20 | NV | -2.10 | -0.0006 | / | Pass |
| | | | 30 | NV | -10.80 | -0.0029 | / | Pass |
| | | | 40 | NV | -2.70 | -0.0007 | / | Pass |
| | | | 50 | NV | -12.30 | -0.0033 | / | Pass |
| CP-OFDM 16 QAM | 3750 | Outer_Full | 20 | LV | -28.80 | -0.0077 | / | Pass |
| | | | | HV | -4.90 | -0.0013 | / | Pass |
| | | | -30 | NV | -6.90 | -0.0018 | / | Pass |
| | | | -20 | NV | 10.60 | 0.0028 | / | Pass |
| | | | -10 | NV | -8.30 | -0.0022 | / | Pass |
| | | | 0 | NV | -12.10 | -0.0032 | / | Pass |



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|-----------------|------|------------|-----|----|--------|---------|---|------|
| | | | 10 | NV | 4.40 | 0.0012 | / | Pass |
| | | | 20 | NV | -13.10 | -0.0035 | / | Pass |
| | | | 30 | NV | -11.10 | -0.0030 | / | Pass |
| | | | 40 | NV | -19.10 | -0.0051 | / | Pass |
| | | | 50 | NV | -4.60 | -0.0012 | / | Pass |
| CP-OFDM 64 QAM | 3750 | Outer_Full | 20 | LV | -9.10 | -0.0024 | / | Pass |
| | | | | HV | -25.50 | -0.0068 | / | Pass |
| | | | -30 | NV | -1.60 | -0.0004 | / | Pass |
| | | | -20 | NV | -7.20 | -0.0019 | / | Pass |
| | | | -10 | NV | -17.40 | -0.0046 | / | Pass |
| | | | 0 | NV | -20.30 | -0.0054 | / | Pass |
| | | | 10 | NV | -16.60 | -0.0044 | / | Pass |
| | | | 20 | NV | -15.60 | -0.0042 | / | Pass |
| | | | 30 | NV | -9.70 | -0.0026 | / | Pass |
| | | | 40 | NV | -7.60 | -0.0020 | / | Pass |
| | | | 50 | NV | -11.90 | -0.0032 | / | Pass |
| CP-OFDM 256 QAM | 3750 | Outer_Full | 20 | LV | -8.60 | -0.0023 | / | Pass |
| | | | | HV | -8.50 | -0.0023 | / | Pass |
| | | | -30 | NV | -11.70 | -0.0031 | / | Pass |
| | | | -20 | NV | -12.00 | -0.0032 | / | Pass |
| | | | -10 | NV | -13.60 | -0.0036 | / | Pass |
| | | | 0 | NV | -22.80 | -0.0061 | / | Pass |
| | | | 10 | NV | -10.70 | -0.0029 | / | Pass |
| | | | 20 | NV | -2.20 | -0.0006 | / | Pass |
| | | | 30 | NV | -17.00 | -0.0045 | / | Pass |
| | | | 40 | NV | -14.40 | -0.0038 | / | Pass |
| | | | 50 | NV | -8.80 | -0.0023 | / | Pass |

2.3 30k_SISO_40MHz

2.3.1 Test Result

| 5G NR n78a SCS=30kHz SISO 40MHz | | | | | | | | |
|---------------------------------|-----------------|---------------|------------|-------|------------------|-----------------------|-------|---------|
| Modulation | Frequency (MHz) | RB Allocation | Temp. (°C) | Volt. | Freq. Error (Hz) | Freq. vs. rated (ppm) | | Verdict |
| | | | | | | Result | Limit | |
| DFT-s-OFDM PI/2 BPSK | 3750 | Outer_Full | 20 | LV | -24.30 | -0.0065 | / | Pass |
| | | | | HV | -9.70 | -0.0026 | / | Pass |
| | | | -30 | NV | -4.90 | -0.0013 | / | Pass |
| | | | -20 | NV | -9.40 | -0.0025 | / | Pass |
| | | | -10 | NV | -15.30 | -0.0041 | / | Pass |
| | | | 0 | NV | -16.20 | -0.0043 | / | Pass |
| | | | 10 | NV | -17.70 | -0.0047 | / | Pass |
| | | | 20 | NV | -9.70 | -0.0026 | / | Pass |
| | | | 30 | NV | -22.70 | -0.0061 | / | Pass |
| | | | 40 | NV | -16.40 | -0.0044 | / | Pass |
| | | | 50 | NV | -21.70 | -0.0058 | / | Pass |



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|-----------------|------|------------|--------|---------|--------|---------|---------|------|
| DFT-s-OFDM QPSK | 3750 | Outer_Full | 20 | LV | -7.50 | -0.0020 | / | Pass |
| | | | | HV | -7.10 | -0.0019 | / | Pass |
| | | | -30 | NV | -30.50 | -0.0081 | / | Pass |
| | | | | NV | -14.50 | -0.0039 | / | Pass |
| | | | -10 | NV | -14.70 | -0.0039 | / | Pass |
| | | | | 0 | NV | -6.60 | -0.0018 | / |
| | | | 10 | NV | -22.70 | -0.0061 | / | Pass |
| | | | | 20 | NV | -17.90 | -0.0048 | / |
| | | | 30 | NV | -13.30 | -0.0035 | / | Pass |
| 40 | NV | -9.60 | | -0.0026 | / | Pass | | |
| 50 | NV | 13.40 | 0.0036 | / | Pass | | | |
| | 20 | LV | -16.20 | -0.0043 | / | Pass | | |
| -30 | | HV | -21.20 | -0.0057 | / | Pass | | |
| | -20 | NV | -12.20 | -0.0033 | / | Pass | | |
| -10 | | NV | -21.60 | -0.0058 | / | Pass | | |
| | 0 | NV | -9.40 | -0.0025 | / | Pass | | |
| 10 | | NV | -9.60 | -0.0026 | / | Pass | | |
| | 20 | NV | -5.70 | -0.0015 | / | Pass | | |
| 30 | | NV | -8.20 | -0.0022 | / | Pass | | |
| | 40 | NV | -16.60 | -0.0044 | / | Pass | | |
| 50 | | NV | -10.40 | -0.0028 | / | Pass | | |
| | 20 | LV | -9.30 | -0.0025 | / | Pass | | |
| -30 | | HV | -16.00 | -0.0043 | / | Pass | | |
| | -20 | NV | -10.50 | -0.0028 | / | Pass | | |
| -10 | | NV | -7.70 | -0.0021 | / | Pass | | |
| | 0 | NV | -16.80 | -0.0045 | / | Pass | | |
| 10 | | NV | -2.80 | -0.0007 | / | Pass | | |
| | 20 | NV | -18.40 | -0.0049 | / | Pass | | |
| 30 | | NV | -7.00 | -0.0019 | / | Pass | | |
| | 40 | NV | -20.40 | -0.0054 | / | Pass | | |
| 50 | | NV | -12.40 | -0.0033 | / | Pass | | |
| | 20 | LV | -14.40 | -0.0038 | / | Pass | | |
| -30 | | HV | -20.40 | -0.0054 | / | Pass | | |
| | -20 | NV | -12.10 | -0.0032 | / | Pass | | |
| -10 | | NV | -16.50 | -0.0044 | / | Pass | | |
| | 0 | NV | -15.00 | -0.0040 | / | Pass | | |
| 10 | | NV | -26.60 | -0.0071 | / | Pass | | |
| | 20 | NV | -12.80 | -0.0034 | / | Pass | | |
| 30 | | NV | -15.20 | -0.0041 | / | Pass | | |
| | 40 | NV | -24.00 | -0.0064 | / | Pass | | |
| 50 | | NV | -11.80 | -0.0031 | / | Pass | | |
| | 20 | LV | -22.90 | -0.0061 | / | Pass | | |
| -30 | | HV | -20.20 | -0.0054 | / | Pass | | |
| | -20 | NV | -11.70 | -0.0031 | / | Pass | | |
| -20 | | NV | -13.20 | -0.0035 | / | Pass | | |



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| | | | -10 | NV | -18.90 | -0.0050 | / | Pass | | | |
| | | | 0 | NV | 2.40 | 0.0006 | / | Pass | | | |
| | | | 10 | NV | -11.00 | -0.0029 | / | Pass | | | |
| | | | 20 | NV | -6.50 | -0.0017 | / | Pass | | | |
| | | | 30 | NV | -11.10 | -0.0030 | / | Pass | | | |
| | | | 40 | NV | -7.80 | -0.0021 | / | Pass | | | |
| | | | 50 | NV | -14.30 | -0.0038 | / | Pass | | | |
| CP-OFDM 16 QAM | 3750 | Outer_Full | 20 | LV | -15.00 | -0.0040 | / | Pass | | | |
| | | | | HV | -18.80 | -0.0050 | / | Pass | | | |
| | | | | | | -30 | NV | -9.50 | -0.0025 | / | Pass |
| | | | | | | -20 | NV | -22.50 | -0.0060 | / | Pass |
| | | | | | | -10 | NV | -15.10 | -0.0040 | / | Pass |
| | | | | | | 0 | NV | -7.20 | -0.0019 | / | Pass |
| | | | | | | 10 | NV | -12.40 | -0.0033 | / | Pass |
| | | | | | | 20 | NV | -17.40 | -0.0046 | / | Pass |
| | | | | | | 30 | NV | -12.90 | -0.0034 | / | Pass |
| | | | | | | 40 | NV | -32.00 | -0.0085 | / | Pass |
| | | | 50 | NV | -16.70 | -0.0045 | / | Pass | | | |
| CP-OFDM 64 QAM | 3750 | Outer_Full | 20 | LV | -19.20 | -0.0051 | / | Pass | | | |
| | | | | HV | -7.10 | -0.0019 | / | Pass | | | |
| | | | | | | -30 | NV | -5.90 | -0.0016 | / | Pass |
| | | | | | | -20 | NV | -12.60 | -0.0034 | / | Pass |
| | | | | | | -10 | NV | -11.10 | -0.0030 | / | Pass |
| | | | | | | 0 | NV | 6.10 | 0.0016 | / | Pass |
| | | | | | | 10 | NV | -9.70 | -0.0026 | / | Pass |
| | | | | | | 20 | NV | -9.40 | -0.0025 | / | Pass |
| | | | | | | 30 | NV | -8.50 | -0.0023 | / | Pass |
| | | | | | | 40 | NV | -17.50 | -0.0047 | / | Pass |
| | | | 50 | NV | -17.00 | -0.0045 | / | Pass | | | |
| CP-OFDM 256 QAM | 3750 | Outer_Full | 20 | LV | -15.10 | -0.0040 | / | Pass | | | |
| | | | | HV | -13.20 | -0.0035 | / | Pass | | | |
| | | | | | | -30 | NV | -29.20 | -0.0078 | / | Pass |
| | | | | | | -20 | NV | -24.30 | -0.0065 | / | Pass |
| | | | | | | -10 | NV | -16.20 | -0.0043 | / | Pass |
| | | | | | | 0 | NV | -14.20 | -0.0038 | / | Pass |
| | | | | | | 10 | NV | -10.30 | -0.0027 | / | Pass |
| | | | | | | 20 | NV | -8.70 | -0.0023 | / | Pass |
| | | | | | | 30 | NV | -23.20 | -0.0062 | / | Pass |
| | | | | | | 40 | NV | -17.80 | -0.0047 | / | Pass |
| | | | 50 | NV | -17.00 | -0.0045 | / | Pass | | | |

2.4 30k_SISO_50MHz

2.4.1 Test Result

5G NR n78a SCS=30kHz SISO 50MHz



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| Modulation | Frequency (MHz) | RB Allocation | Temp. (°C) | Volt. | Freq. Error (Hz) | Freq. vs. rated (ppm) | | Verdict |
|----------------------|--------------------|---------------|------------|-------|------------------|-----------------------|---------|---------|
| | | | | | | Result | Limit | |
| DFT-s-OFDM PI/2 BPSK | 3750 | Outer_Full | 20 | LV | -19.90 | -0.0053 | / | Pass |
| | | | | HV | -17.10 | -0.0046 | / | Pass |
| | | | -30 | NV | -18.40 | -0.0049 | / | Pass |
| | | | | NV | -8.30 | -0.0022 | / | Pass |
| | | | -10 | NV | -15.20 | -0.0041 | / | Pass |
| | | | | 0 | NV | -3.50 | -0.0009 | / |
| | | | 10 | NV | -16.00 | -0.0043 | / | Pass |
| | | | | 20 | NV | -11.10 | -0.0030 | / |
| | | | 30 | NV | -22.90 | -0.0061 | / | Pass |
| | | | | 40 | NV | -12.20 | -0.0033 | / |
| 50 | NV | -18.50 | -0.0049 | / | Pass | | | |
| | DFT-s-OFDM QPSK | 3750 | Outer_Full | 20 | LV | -20.90 | -0.0056 | / |
| HV | | | | | -13.80 | -0.0037 | / | Pass |
| -30 | | | | NV | -7.60 | -0.0020 | / | Pass |
| | | | | NV | -8.40 | -0.0022 | / | Pass |
| -10 | | | | NV | -16.90 | -0.0045 | / | Pass |
| | | | | 0 | NV | -22.00 | -0.0059 | / |
| 10 | | | | NV | -9.30 | -0.0025 | / | Pass |
| | | | | 20 | NV | -8.60 | -0.0023 | / |
| 30 | | | | NV | -14.50 | -0.0039 | / | Pass |
| | | | | 40 | NV | -14.90 | -0.0040 | / |
| 50 | NV | -3.70 | -0.0010 | / | Pass | | | |
| | DFT-s-OFDM 16 QAM | 3750 | Outer_Full | 20 | LV | -13.80 | -0.0037 | / |
| HV | | | | | -15.40 | -0.0041 | / | Pass |
| -30 | | | | NV | -17.60 | -0.0047 | / | Pass |
| | | | | NV | -7.90 | -0.0021 | / | Pass |
| -10 | | | | NV | -14.90 | -0.0040 | / | Pass |
| | | | | 0 | NV | -20.10 | -0.0054 | / |
| 10 | | | | NV | -20.80 | -0.0055 | / | Pass |
| | | | | 20 | NV | -16.10 | -0.0043 | / |
| 30 | | | | NV | -10.50 | -0.0028 | / | Pass |
| | | | | 40 | NV | -28.00 | -0.0075 | / |
| 50 | NV | -22.90 | -0.0061 | / | Pass | | | |
| | DFT-s-OFDM 64 QAM | 3750 | Outer_Full | 20 | LV | -8.30 | -0.0022 | / |
| HV | | | | | -23.50 | -0.0063 | / | Pass |
| -30 | | | | NV | -10.60 | -0.0028 | / | Pass |
| | | | | NV | -17.40 | -0.0046 | / | Pass |
| -10 | | | | NV | -18.20 | -0.0049 | / | Pass |
| | | | | 0 | NV | -4.90 | -0.0013 | / |
| 10 | | | | NV | -9.90 | -0.0026 | / | Pass |
| | | | | 20 | NV | -5.50 | -0.0015 | / |
| 30 | | | | NV | -6.80 | -0.0018 | / | Pass |
| | | | | 40 | NV | -16.80 | -0.0045 | / |
| 50 | NV | -15.60 | -0.0042 | / | Pass | | | |
| | DFT-s-OFDM 256 QAM | 3750 | Outer_Full | 20 | LV | -7.30 | -0.0019 | / |
| HV | | | | | -16.50 | -0.0044 | / | Pass |



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| | | | | | | | | |
|-----------------|------|------------|---------|----|--------|---------|---|------|
| | | | -30 | NV | -15.10 | -0.0040 | / | Pass |
| | | | -20 | NV | -21.00 | -0.0056 | / | Pass |
| | | | -10 | NV | -21.50 | -0.0057 | / | Pass |
| | | | 0 | NV | -16.10 | -0.0043 | / | Pass |
| | | | 10 | NV | -23.30 | -0.0062 | / | Pass |
| | | | 20 | NV | -7.90 | -0.0021 | / | Pass |
| | | | 30 | NV | -15.90 | -0.0042 | / | Pass |
| | | | 40 | NV | -10.30 | -0.0027 | / | Pass |
| | | | 50 | NV | -18.10 | -0.0048 | / | Pass |
| CP-OFDM QPSK | 3750 | Outer_Full | 20 | LV | -17.20 | -0.0046 | / | Pass |
| | | | | HV | -11.90 | -0.0032 | / | Pass |
| | | | -30 | NV | -21.60 | -0.0058 | / | Pass |
| | | | | NV | -8.60 | -0.0023 | / | Pass |
| | | | -10 | NV | -17.40 | -0.0046 | / | Pass |
| | | | | NV | -15.10 | -0.0040 | / | Pass |
| | | | 10 | NV | -10.40 | -0.0028 | / | Pass |
| | | | 20 | NV | -18.60 | -0.0050 | / | Pass |
| | | | 30 | NV | -10.80 | -0.0029 | / | Pass |
| | | | 40 | NV | -19.60 | -0.0052 | / | Pass |
| 50 | NV | -27.00 | -0.0072 | / | Pass | | | |
| CP-OFDM 16 QAM | 3750 | Outer_Full | 20 | LV | -5.70 | -0.0015 | / | Pass |
| | | | | HV | -19.50 | -0.0052 | / | Pass |
| | | | -30 | NV | -14.10 | -0.0038 | / | Pass |
| | | | | NV | -7.30 | -0.0019 | / | Pass |
| | | | -10 | NV | -11.60 | -0.0031 | / | Pass |
| | | | | NV | -11.90 | -0.0032 | / | Pass |
| | | | 10 | NV | 8.50 | 0.0023 | / | Pass |
| | | | 20 | NV | -18.10 | -0.0048 | / | Pass |
| | | | 30 | NV | -12.90 | -0.0034 | / | Pass |
| | | | 40 | NV | -19.00 | -0.0051 | / | Pass |
| 50 | NV | -8.10 | -0.0022 | / | Pass | | | |
| CP-OFDM 64 QAM | 3750 | Outer_Full | 20 | LV | -9.80 | -0.0026 | / | Pass |
| | | | | HV | -16.80 | -0.0045 | / | Pass |
| | | | -30 | NV | -15.70 | -0.0042 | / | Pass |
| | | | | NV | -10.30 | -0.0027 | / | Pass |
| | | | -10 | NV | -6.40 | -0.0017 | / | Pass |
| | | | | NV | -16.50 | -0.0044 | / | Pass |
| | | | 10 | NV | -3.40 | -0.0009 | / | Pass |
| | | | 20 | NV | -22.70 | -0.0061 | / | Pass |
| | | | 30 | NV | -16.00 | -0.0043 | / | Pass |
| | | | 40 | NV | -9.90 | -0.0026 | / | Pass |
| 50 | NV | -8.90 | -0.0024 | / | Pass | | | |
| CP-OFDM 256 QAM | 3750 | Outer_Full | 20 | LV | -10.80 | -0.0029 | / | Pass |
| | | | | HV | -12.50 | -0.0033 | / | Pass |
| | | | -30 | NV | -7.70 | -0.0021 | / | Pass |
| | | | -20 | NV | -3.50 | -0.0009 | / | Pass |
| | | | -10 | NV | -10.90 | -0.0029 | / | Pass |
| | | | 0 | NV | -17.80 | -0.0047 | / | Pass |



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|--|--|--|----|----|--------|---------|---|------|
| | | | 10 | NV | -11.70 | -0.0031 | / | Pass |
| | | | 20 | NV | -9.60 | -0.0026 | / | Pass |
| | | | 30 | NV | -9.10 | -0.0024 | / | Pass |
| | | | 40 | NV | -13.10 | -0.0035 | / | Pass |
| | | | 50 | NV | -14.40 | -0.0038 | / | Pass |

2.5 30k_SISO_60MHz

2.5.1 Test Result

| 5G NR n78a SCS=30kHz SISO 60MHz | | | | | | | | |
|---------------------------------|-----------------|---------------|------------|-------|------------------|-----------------------|-------|---------|
| Modulation | Frequency (MHz) | RB Allocation | Temp. (°C) | Volt. | Freq. Error (Hz) | Freq. vs. rated (ppm) | | Verdict |
| | | | | | | Result | Limit | |
| DFT-s-OFDM PI/2 BPSK | 3750 | Outer_Full | 20 | LV | -18.00 | -0.0048 | / | Pass |
| | | | | HV | -10.70 | -0.0029 | / | Pass |
| | | | -30 | NV | -8.80 | -0.0023 | / | Pass |
| | | | | NV | -11.70 | -0.0031 | / | Pass |
| | | | -10 | NV | -7.10 | -0.0019 | / | Pass |
| | | | | NV | -13.40 | -0.0036 | / | Pass |
| | | | 10 | NV | -7.60 | -0.0020 | / | Pass |
| | | | | NV | 3.90 | 0.0010 | / | Pass |
| | | | 30 | NV | -18.00 | -0.0048 | / | Pass |
| | | | | NV | -13.80 | -0.0037 | / | Pass |
| 40 | NV | -18.20 | -0.0049 | / | Pass | | | |
| | NV | -18.20 | -0.0049 | / | Pass | | | |
| DFT-s-OFDM QPSK | 3750 | Outer_Full | 20 | LV | -9.10 | -0.0024 | / | Pass |
| | | | | HV | -2.80 | -0.0007 | / | Pass |
| | | | -30 | NV | -12.50 | -0.0033 | / | Pass |
| | | | | NV | 7.70 | 0.0021 | / | Pass |
| | | | -10 | NV | -9.60 | -0.0026 | / | Pass |
| | | | | NV | -18.60 | -0.0050 | / | Pass |
| | | | 10 | NV | -17.30 | -0.0046 | / | Pass |
| | | | | NV | -10.40 | -0.0028 | / | Pass |
| | | | 30 | NV | -9.80 | -0.0026 | / | Pass |
| | | | | NV | -6.60 | -0.0018 | / | Pass |
| 40 | NV | -8.10 | -0.0022 | / | Pass | | | |
| | NV | -8.10 | -0.0022 | / | Pass | | | |
| DFT-s-OFDM 16 QAM | 3750 | Outer_Full | 20 | LV | -7.60 | -0.0020 | / | Pass |
| | | | | HV | -7.00 | -0.0019 | / | Pass |
| | | | -30 | NV | -6.30 | -0.0017 | / | Pass |
| | | | | NV | -13.00 | -0.0035 | / | Pass |
| | | | -10 | NV | -8.50 | -0.0023 | / | Pass |
| | | | | NV | -6.50 | -0.0017 | / | Pass |
| | | | 10 | NV | -16.30 | -0.0043 | / | Pass |
| | | | | NV | -24.70 | -0.0066 | / | Pass |
| | | | 30 | NV | -7.70 | -0.0021 | / | Pass |
| | | | | NV | -5.40 | -0.0014 | / | Pass |
| 40 | NV | -5.40 | -0.0014 | / | Pass | | | |
| | NV | -7.70 | -0.0021 | / | Pass | | | |



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| | | | | | | | | |
|--------------------|------|------------|---------|-----|--------|---------|---------|------|
| DFT-s-OFDM 64 QAM | 3750 | Outer_Full | 20 | LV | 4.90 | 0.0013 | / | Pass |
| | | | | HV | -16.70 | -0.0045 | / | Pass |
| | | | -30 | NV | -15.10 | -0.0040 | / | Pass |
| | | | | NV | -16.20 | -0.0043 | / | Pass |
| | | | -10 | NV | -8.00 | -0.0021 | / | Pass |
| | | | | 0 | NV | -15.20 | -0.0041 | / |
| | | | 10 | NV | -14.50 | -0.0039 | / | Pass |
| | | | 20 | NV | -12.60 | -0.0034 | / | Pass |
| | | | 30 | NV | -13.10 | -0.0035 | / | Pass |
| 40 | NV | -1.90 | -0.0005 | / | Pass | | | |
| 50 | NV | -19.10 | -0.0051 | / | Pass | | | |
| DFT-s-OFDM 256 QAM | 3750 | Outer_Full | 20 | LV | -16.60 | -0.0044 | / | Pass |
| | | | | HV | -6.40 | -0.0017 | / | Pass |
| | | | -30 | NV | -9.70 | -0.0026 | / | Pass |
| | | | | NV | -23.90 | -0.0064 | / | Pass |
| | | | -10 | NV | -7.90 | -0.0021 | / | Pass |
| | | | | 0 | NV | -4.20 | -0.0011 | / |
| | | | 10 | NV | -20.20 | -0.0054 | / | Pass |
| | | | 20 | NV | -10.00 | -0.0027 | / | Pass |
| | | | 30 | NV | -16.60 | -0.0044 | / | Pass |
| 40 | NV | -15.70 | -0.0042 | / | Pass | | | |
| 50 | NV | -8.50 | -0.0023 | / | Pass | | | |
| CP-OFDM QPSK | 3750 | Outer_Full | 20 | LV | -12.20 | -0.0033 | / | Pass |
| | | | | HV | -8.10 | -0.0022 | / | Pass |
| | | | -30 | NV | -11.90 | -0.0032 | / | Pass |
| | | | | NV | -29.00 | -0.0077 | / | Pass |
| | | | -10 | NV | -6.70 | -0.0018 | / | Pass |
| | | | | 0 | NV | -12.00 | -0.0032 | / |
| | | | 10 | NV | -19.90 | -0.0053 | / | Pass |
| | | | 20 | NV | -7.10 | -0.0019 | / | Pass |
| | | | 30 | NV | -21.40 | -0.0057 | / | Pass |
| 40 | NV | -6.70 | -0.0018 | / | Pass | | | |
| 50 | NV | -8.20 | -0.0022 | / | Pass | | | |
| CP-OFDM 16 QAM | 3750 | Outer_Full | 20 | LV | -20.40 | -0.0054 | / | Pass |
| | | | | HV | -10.40 | -0.0028 | / | Pass |
| | | | -30 | NV | -14.90 | -0.0040 | / | Pass |
| | | | | NV | -14.70 | -0.0039 | / | Pass |
| | | | -10 | NV | -11.50 | -0.0031 | / | Pass |
| | | | | 0 | NV | -10.50 | -0.0028 | / |
| | | | 10 | NV | -10.40 | -0.0028 | / | Pass |
| | | | 20 | NV | -9.10 | -0.0024 | / | Pass |
| | | | 30 | NV | -10.40 | -0.0028 | / | Pass |
| 40 | NV | -19.70 | -0.0053 | / | Pass | | | |
| 50 | NV | -17.20 | -0.0046 | / | Pass | | | |
| CP-OFDM 64 QAM | 3750 | Outer_Full | 20 | LV | -15.40 | -0.0041 | / | Pass |
| | | | | HV | -5.80 | -0.0015 | / | Pass |
| | | | -30 | NV | -17.90 | -0.0048 | / | Pass |
| | | | | -20 | NV | -13.00 | -0.0035 | / |



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|-----------------|------|------------|-----|----|--------|---------|---|------|
| | | | -10 | NV | -9.10 | -0.0024 | / | Pass |
| | | | 0 | NV | -6.40 | -0.0017 | / | Pass |
| | | | 10 | NV | -12.90 | -0.0034 | / | Pass |
| | | | 20 | NV | -12.40 | -0.0033 | / | Pass |
| | | | 30 | NV | -9.00 | -0.0024 | / | Pass |
| | | | 40 | NV | -8.10 | -0.0022 | / | Pass |
| | | | 50 | NV | -9.10 | -0.0024 | / | Pass |
| CP-OFDM 256 QAM | 3750 | Outer_Full | 20 | LV | -9.50 | -0.0025 | / | Pass |
| | | | | HV | -16.90 | -0.0045 | / | Pass |
| | | | -30 | NV | -9.60 | -0.0026 | / | Pass |
| | | | -20 | NV | -14.80 | -0.0039 | / | Pass |
| | | | -10 | NV | -5.80 | -0.0015 | / | Pass |
| | | | 0 | NV | -4.50 | -0.0012 | / | Pass |
| | | | 10 | NV | -11.10 | -0.0030 | / | Pass |
| | | | 20 | NV | -1.20 | -0.0003 | / | Pass |
| | | | 30 | NV | -13.20 | -0.0035 | / | Pass |
| | | | 40 | NV | -11.90 | -0.0032 | / | Pass |
| | | | 50 | NV | -14.60 | -0.0039 | / | Pass |

2.6 30k_SISO_70MHz

2.6.1 Test Result

| 5G NR n78a SCS=30kHz SISO 70MHz | | | | | | | | |
|---------------------------------|-----------------|---------------|------------|-------|------------------|-----------------------|-------|---------|
| Modulation | Frequency (MHz) | RB Allocation | Temp. (°C) | Volt. | Freq. Error (Hz) | Freq. vs. rated (ppm) | | Verdict |
| | | | | | | Result | Limit | |
| DFT-s-OFDM PI/2 BPSK | 3750 | Outer_Full | 20 | LV | 5.70 | 0.0015 | / | Pass |
| | | | | HV | 1.60 | 0.0004 | / | Pass |
| | | | -30 | NV | -20.90 | -0.0056 | / | Pass |
| | | | -20 | NV | -10.80 | -0.0029 | / | Pass |
| | | | -10 | NV | -15.60 | -0.0042 | / | Pass |
| | | | 0 | NV | -13.60 | -0.0036 | / | Pass |
| | | | 10 | NV | -13.30 | -0.0035 | / | Pass |
| | | | 20 | NV | -6.30 | -0.0017 | / | Pass |
| | | | 30 | NV | -7.60 | -0.0020 | / | Pass |
| | | | 40 | NV | -8.30 | -0.0022 | / | Pass |
| DFT-s-OFDM QPSK | 3750 | Outer_Full | 20 | LV | -9.20 | -0.0025 | / | Pass |
| | | | | HV | -17.30 | -0.0046 | / | Pass |
| | | | -30 | NV | -12.50 | -0.0033 | / | Pass |
| | | | -20 | NV | -9.80 | -0.0026 | / | Pass |
| | | | -10 | NV | -15.10 | -0.0040 | / | Pass |
| | | | 0 | NV | -16.80 | -0.0045 | / | Pass |
| | | | 10 | NV | -12.90 | -0.0034 | / | Pass |
| | | | 20 | NV | -10.20 | -0.0027 | / | Pass |
| | | | 30 | NV | -2.00 | -0.0005 | / | Pass |



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| | | | | | | | | | | | |
|--------------------|-------|------------|-------------------|------|------------|---------|----|--------|---------|---|------|
| DFT-s-OFDM 16 QAM | 3750 | Outer_Full | 40 | NV | -14.20 | -0.0038 | / | Pass | | | |
| | | | 50 | NV | -14.70 | -0.0039 | / | Pass | | | |
| | | | 20 | LV | 10.40 | 0.0028 | / | Pass | | | |
| | | | | HV | -18.40 | -0.0049 | / | Pass | | | |
| | | | -30 | NV | -9.30 | -0.0025 | / | Pass | | | |
| | | | -20 | NV | -9.50 | -0.0025 | / | Pass | | | |
| | | | -10 | NV | -18.90 | -0.0050 | / | Pass | | | |
| | | | 0 | NV | -17.30 | -0.0046 | / | Pass | | | |
| | | | 10 | NV | -18.00 | -0.0048 | / | Pass | | | |
| | | | 20 | NV | -9.60 | -0.0026 | / | Pass | | | |
| | | | 30 | NV | -1.90 | -0.0005 | / | Pass | | | |
| | | | 40 | NV | -22.20 | -0.0059 | / | Pass | | | |
| | | | 50 | NV | -23.30 | -0.0062 | / | Pass | | | |
| | | | DFT-s-OFDM 64 QAM | 3750 | Outer_Full | 20 | LV | -24.70 | -0.0066 | / | Pass |
| HV | -8.30 | -0.0022 | | | | | / | Pass | | | |
| -30 | NV | -10.60 | | | | -0.0028 | / | Pass | | | |
| -20 | NV | -17.50 | | | | -0.0047 | / | Pass | | | |
| -10 | NV | -3.40 | | | | -0.0009 | / | Pass | | | |
| 0 | NV | 4.10 | | | | 0.0011 | / | Pass | | | |
| 10 | NV | -6.50 | | | | -0.0017 | / | Pass | | | |
| 20 | NV | -17.50 | | | | -0.0047 | / | Pass | | | |
| 30 | NV | -6.00 | | | | -0.0016 | / | Pass | | | |
| 40 | NV | -8.20 | | | | -0.0022 | / | Pass | | | |
| 50 | NV | -17.20 | | | | -0.0046 | / | Pass | | | |
| DFT-s-OFDM 256 QAM | 3750 | Outer_Full | | | | 20 | LV | -20.20 | -0.0054 | / | Pass |
| | | | | | | | HV | -13.20 | -0.0035 | / | Pass |
| | | | | | | -30 | NV | 2.30 | 0.0006 | / | Pass |
| | | | -20 | NV | -12.90 | -0.0034 | / | Pass | | | |
| | | | -10 | NV | -28.90 | -0.0077 | / | Pass | | | |
| | | | 0 | NV | -10.60 | -0.0028 | / | Pass | | | |
| | | | 10 | NV | -13.00 | -0.0035 | / | Pass | | | |
| | | | 20 | NV | -12.40 | -0.0033 | / | Pass | | | |
| | | | 30 | NV | -7.30 | -0.0019 | / | Pass | | | |
| | | | 40 | NV | -13.10 | -0.0035 | / | Pass | | | |
| | | | 50 | NV | -20.10 | -0.0054 | / | Pass | | | |
| | | | CP-OFDM QPSK | 3750 | Outer_Full | 20 | LV | -19.30 | -0.0051 | / | Pass |
| | | | | | | | HV | -16.60 | -0.0044 | / | Pass |
| | | | | | | -30 | NV | -21.20 | -0.0057 | / | Pass |
| -20 | NV | -11.90 | | | | -0.0032 | / | Pass | | | |
| -10 | NV | -11.50 | | | | -0.0031 | / | Pass | | | |
| 0 | NV | -18.60 | | | | -0.0050 | / | Pass | | | |
| 10 | NV | -18.90 | | | | -0.0050 | / | Pass | | | |
| 20 | NV | -19.30 | | | | -0.0051 | / | Pass | | | |
| 30 | NV | 6.20 | | | | 0.0017 | / | Pass | | | |
| 40 | NV | 3.40 | | | | 0.0009 | / | Pass | | | |
| 50 | NV | -14.60 | | | | -0.0039 | / | Pass | | | |
| CP-OFDM 16 QAM | 3750 | Outer_Full | | | | 20 | LV | -21.60 | -0.0058 | / | Pass |
| | | | | | | | HV | -11.40 | -0.0030 | / | Pass |



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| | | | | | | | | |
|-----------------|------|------------|---------|----|--------|---------|---|------|
| | | | -30 | NV | -5.80 | -0.0015 | / | Pass |
| | | | -20 | NV | -4.40 | -0.0012 | / | Pass |
| | | | -10 | NV | -13.10 | -0.0035 | / | Pass |
| | | | 0 | NV | -16.60 | -0.0044 | / | Pass |
| | | | 10 | NV | -16.60 | -0.0044 | / | Pass |
| | | | 20 | NV | -30.40 | -0.0081 | / | Pass |
| | | | 30 | NV | -11.60 | -0.0031 | / | Pass |
| | | | 40 | NV | -4.50 | -0.0012 | / | Pass |
| | | | 50 | NV | -16.00 | -0.0043 | / | Pass |
| CP-OFDM 64 QAM | 3750 | Outer_Full | 20 | LV | -28.70 | -0.0077 | / | Pass |
| | | | | HV | -16.70 | -0.0045 | / | Pass |
| | | | -30 | NV | 7.50 | 0.0020 | / | Pass |
| | | | | NV | -22.00 | -0.0059 | / | Pass |
| | | | -10 | NV | -14.60 | -0.0039 | / | Pass |
| | | | | NV | -11.40 | -0.0030 | / | Pass |
| | | | 10 | NV | -7.20 | -0.0019 | / | Pass |
| | | | | NV | -15.10 | -0.0040 | / | Pass |
| | | | 30 | NV | -0.70 | -0.0002 | / | Pass |
| | | | | NV | -9.90 | -0.0026 | / | Pass |
| 50 | NV | -2.80 | -0.0007 | / | Pass | | | |
| | NV | -19.10 | -0.0051 | / | Pass | | | |
| CP-OFDM 256 QAM | 3750 | Outer_Full | 20 | LV | -9.50 | -0.0025 | / | Pass |
| | | | | HV | -14.10 | -0.0038 | / | Pass |
| | | | -30 | NV | -19.70 | -0.0053 | / | Pass |
| | | | | NV | -8.50 | -0.0023 | / | Pass |
| | | | -10 | NV | -12.30 | -0.0033 | / | Pass |
| | | | | NV | -18.50 | -0.0049 | / | Pass |
| | | | 10 | NV | -15.50 | -0.0041 | / | Pass |
| | | | | NV | -15.80 | -0.0042 | / | Pass |
| | | | 30 | NV | -12.10 | -0.0032 | / | Pass |
| | | | | NV | -14.80 | -0.0039 | / | Pass |
| 50 | NV | -19.10 | -0.0051 | / | Pass | | | |
| | NV | -19.10 | -0.0051 | / | Pass | | | |

2.7 30k_SISO_80MHz

2.7.1 Test Result

| 5G NR n78a SCS=30kHz SISO 80MHz | | | | | | | | |
|---------------------------------|-----------------|---------------|------------|-------|------------------|-----------------------|-------|---------|
| Modulation | Frequency (MHz) | RB Allocation | Temp. (°C) | Volt. | Freq. Error (Hz) | Freq. vs. rated (ppm) | | Verdict |
| | | | | | | Result | Limit | |
| DFT-s-OFDM PI/2 BPSK | 3750 | Outer_Full | 20 | LV | -9.80 | -0.0026 | / | Pass |
| | | | | HV | -11.90 | -0.0032 | / | Pass |
| | | | -30 | NV | -6.20 | -0.0017 | / | Pass |
| | | | | NV | -16.40 | -0.0044 | / | Pass |
| | | | -10 | NV | -13.60 | -0.0036 | / | Pass |
| | | | | NV | -15.70 | -0.0042 | / | Pass |
| | | | 10 | NV | -15.90 | -0.0042 | / | Pass |
| | | | | NV | -15.90 | -0.0042 | / | Pass |



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| | | | | | | | | |
|--------------------|------|------------|-----|----|--------|---------|---|------|
| | | | 20 | NV | -15.80 | -0.0042 | / | Pass |
| | | | 30 | NV | -18.70 | -0.0050 | / | Pass |
| | | | 40 | NV | -17.00 | -0.0045 | / | Pass |
| | | | 50 | NV | -10.10 | -0.0027 | / | Pass |
| DFT-s-OFDM QPSK | 3750 | Outer_Full | 20 | LV | -14.90 | -0.0040 | / | Pass |
| | | | | HV | -15.40 | -0.0041 | / | Pass |
| | | | -30 | NV | -16.40 | -0.0044 | / | Pass |
| | | | -20 | NV | -11.50 | -0.0031 | / | Pass |
| | | | -10 | NV | -14.20 | -0.0038 | / | Pass |
| | | | 0 | NV | -15.80 | -0.0042 | / | Pass |
| | | | 10 | NV | -22.60 | -0.0060 | / | Pass |
| | | | 20 | NV | -24.80 | -0.0066 | / | Pass |
| | | | 30 | NV | -8.00 | -0.0021 | / | Pass |
| | | | 40 | NV | -9.30 | -0.0025 | / | Pass |
| | | | 50 | NV | -10.50 | -0.0028 | / | Pass |
| DFT-s-OFDM 16 QAM | 3750 | Outer_Full | 20 | LV | 2.70 | 0.0007 | / | Pass |
| | | | | HV | -10.90 | -0.0029 | / | Pass |
| | | | -30 | NV | -12.90 | -0.0034 | / | Pass |
| | | | -20 | NV | -15.20 | -0.0041 | / | Pass |
| | | | -10 | NV | -21.00 | -0.0056 | / | Pass |
| | | | 0 | NV | -19.90 | -0.0053 | / | Pass |
| | | | 10 | NV | -10.40 | -0.0028 | / | Pass |
| | | | 20 | NV | -22.90 | -0.0061 | / | Pass |
| | | | 30 | NV | -9.20 | -0.0025 | / | Pass |
| | | | 40 | NV | -9.40 | -0.0025 | / | Pass |
| | | | 50 | NV | -22.80 | -0.0061 | / | Pass |
| DFT-s-OFDM 64 QAM | 3750 | Outer_Full | 20 | LV | -6.00 | -0.0016 | / | Pass |
| | | | | HV | -17.10 | -0.0046 | / | Pass |
| | | | -30 | NV | -29.50 | -0.0079 | / | Pass |
| | | | -20 | NV | -13.30 | -0.0035 | / | Pass |
| | | | -10 | NV | -13.10 | -0.0035 | / | Pass |
| | | | 0 | NV | -11.00 | -0.0029 | / | Pass |
| | | | 10 | NV | -17.30 | -0.0046 | / | Pass |
| | | | 20 | NV | -19.30 | -0.0051 | / | Pass |
| | | | 30 | NV | -13.80 | -0.0037 | / | Pass |
| | | | 40 | NV | -19.50 | -0.0052 | / | Pass |
| | | | 50 | NV | -19.50 | -0.0052 | / | Pass |
| DFT-s-OFDM 256 QAM | 3750 | Outer_Full | 20 | LV | -12.30 | -0.0033 | / | Pass |
| | | | | HV | -18.20 | -0.0049 | / | Pass |
| | | | -30 | NV | -21.70 | -0.0058 | / | Pass |
| | | | -20 | NV | -38.20 | -0.0102 | / | Pass |
| | | | -10 | NV | -11.70 | -0.0031 | / | Pass |
| | | | 0 | NV | -13.30 | -0.0035 | / | Pass |
| | | | 10 | NV | -14.10 | -0.0038 | / | Pass |
| | | | 20 | NV | -12.60 | -0.0034 | / | Pass |
| | | | 30 | NV | -9.50 | -0.0025 | / | Pass |
| | | | 40 | NV | -18.70 | -0.0050 | / | Pass |
| | | | 50 | NV | -18.60 | -0.0050 | / | Pass |



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|--------------|------|------------|---------|---------|--------|---------|---------|------|
| CP-OFDM QPSK | 3750 | Outer_Full | 20 | LV | -14.00 | -0.0037 | / | Pass |
| | | | | HV | -12.90 | -0.0034 | / | Pass |
| | | | -30 | NV | -14.30 | -0.0038 | / | Pass |
| | | | | NV | -3.20 | -0.0009 | / | Pass |
| | | | -10 | NV | -23.00 | -0.0061 | / | Pass |
| | | | | 0 | NV | -5.80 | -0.0015 | / |
| | | | 10 | NV | -7.80 | -0.0021 | / | Pass |
| | | | | 20 | NV | -10.40 | -0.0028 | / |
| | | | 30 | NV | -22.50 | -0.0060 | / | Pass |
| | | | | 40 | NV | -9.30 | -0.0025 | / |
| 50 | NV | -22.70 | -0.0061 | / | Pass | | | |
| | 20 | LV | 2.40 | 0.0006 | / | Pass | | |
| -30 | | HV | -7.90 | -0.0021 | / | Pass | | |
| | -20 | NV | -20.20 | -0.0054 | / | Pass | | |
| -10 | | NV | -21.90 | -0.0058 | / | Pass | | |
| | 0 | NV | -19.00 | -0.0051 | / | Pass | | |
| 10 | | NV | -14.40 | -0.0038 | / | Pass | | |
| | 20 | NV | -7.70 | -0.0021 | / | Pass | | |
| 30 | | NV | -4.00 | -0.0011 | / | Pass | | |
| | 40 | NV | -17.40 | -0.0046 | / | Pass | | |
| 50 | | NV | -9.30 | -0.0025 | / | Pass | | |
| | 20 | LV | -10.70 | -0.0029 | / | Pass | | |
| -30 | | HV | -14.20 | -0.0038 | / | Pass | | |
| | -20 | NV | -22.40 | -0.0060 | / | Pass | | |
| -10 | | NV | -23.50 | -0.0063 | / | Pass | | |
| | 0 | NV | -15.20 | -0.0041 | / | Pass | | |
| 10 | | NV | -21.60 | -0.0058 | / | Pass | | |
| | 20 | NV | -23.90 | -0.0064 | / | Pass | | |
| 30 | | NV | -8.30 | -0.0022 | / | Pass | | |
| | 40 | NV | -13.50 | -0.0036 | / | Pass | | |
| 50 | | NV | -20.20 | -0.0054 | / | Pass | | |
| | 20 | LV | -19.60 | -0.0052 | / | Pass | | |
| -30 | | HV | -16.80 | -0.0045 | / | Pass | | |
| | -20 | NV | -20.60 | -0.0055 | / | Pass | | |
| -10 | | NV | -22.70 | -0.0061 | / | Pass | | |
| | 0 | NV | -13.10 | -0.0035 | / | Pass | | |
| 10 | | NV | -15.50 | -0.0041 | / | Pass | | |
| | 20 | NV | -18.20 | -0.0049 | / | Pass | | |
| 30 | | NV | -17.40 | -0.0046 | / | Pass | | |
| | 40 | NV | -14.30 | -0.0038 | / | Pass | | |
| 50 | | NV | -17.70 | -0.0047 | / | Pass | | |
| | 20 | LV | -19.60 | -0.0052 | / | Pass | | |
| -30 | | HV | -16.80 | -0.0045 | / | Pass | | |
| | -20 | NV | -20.60 | -0.0055 | / | Pass | | |
| -10 | | NV | -22.70 | -0.0061 | / | Pass | | |
| | 0 | NV | -13.10 | -0.0035 | / | Pass | | |
| 10 | | NV | -15.50 | -0.0041 | / | Pass | | |
| | 20 | NV | -18.20 | -0.0049 | / | Pass | | |
| 30 | | NV | -17.40 | -0.0046 | / | Pass | | |
| | 40 | NV | -14.30 | -0.0038 | / | Pass | | |
| 50 | | NV | -17.70 | -0.0047 | / | Pass | | |
| | 20 | LV | -19.60 | -0.0052 | / | Pass | | |
| -30 | | HV | -16.80 | -0.0045 | / | Pass | | |
| | -20 | NV | -20.60 | -0.0055 | / | Pass | | |
| -10 | | NV | -22.70 | -0.0061 | / | Pass | | |
| | 0 | NV | -13.10 | -0.0035 | / | Pass | | |
| 10 | | NV | -15.50 | -0.0041 | / | Pass | | |
| | 20 | NV | -18.20 | -0.0049 | / | Pass | | |
| 30 | | NV | -17.40 | -0.0046 | / | Pass | | |
| | 40 | NV | -14.30 | -0.0038 | / | Pass | | |
| 50 | | NV | -17.70 | -0.0047 | / | Pass | | |

2.8 30k_SISO_90MHz



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2.8.1 Test Result

| 5G NR n78a SCS=30kHz SISO 90MHz | | | | | | | | |
|---------------------------------|-----------------|---------------|------------|-------|------------------|-----------------------|-------|---------|
| Modulation | Frequency (MHz) | RB Allocation | Temp. (°C) | Volt. | Freq. Error (Hz) | Freq. vs. rated (ppm) | | Verdict |
| | | | | | | Result | Limit | |
| DFT-s-OFDM PI/2 BPSK | 3750 | Outer_Full | 20 | LV | -14.80 | -0.0039 | / | Pass |
| | | | | HV | -9.30 | -0.0025 | / | Pass |
| | | | -30 | NV | -17.40 | -0.0046 | / | Pass |
| | | | -20 | NV | -9.30 | -0.0025 | / | Pass |
| | | | -10 | NV | -15.20 | -0.0041 | / | Pass |
| | | | 0 | NV | -6.70 | -0.0018 | / | Pass |
| | | | 10 | NV | -3.60 | -0.0010 | / | Pass |
| | | | 20 | NV | -23.30 | -0.0062 | / | Pass |
| | | | 30 | NV | -9.90 | -0.0026 | / | Pass |
| | | | 40 | NV | -8.60 | -0.0023 | / | Pass |
| 50 | NV | -12.70 | -0.0034 | / | Pass | | | |
| DFT-s-OFDM QPSK | 3750 | Outer_Full | 20 | LV | -9.20 | -0.0025 | / | Pass |
| | | | | HV | -8.40 | -0.0022 | / | Pass |
| | | | -30 | NV | -17.50 | -0.0047 | / | Pass |
| | | | -20 | NV | -12.80 | -0.0034 | / | Pass |
| | | | -10 | NV | -20.00 | -0.0053 | / | Pass |
| | | | 0 | NV | -13.00 | -0.0035 | / | Pass |
| | | | 10 | NV | -15.10 | -0.0040 | / | Pass |
| | | | 20 | NV | -12.00 | -0.0032 | / | Pass |
| | | | 30 | NV | -7.70 | -0.0021 | / | Pass |
| | | | 40 | NV | -8.70 | -0.0023 | / | Pass |
| 50 | NV | -10.20 | -0.0027 | / | Pass | | | |
| DFT-s-OFDM 16 QAM | 3750 | Outer_Full | 20 | LV | -16.80 | -0.0045 | / | Pass |
| | | | | HV | -8.00 | -0.0021 | / | Pass |
| | | | -30 | NV | -10.00 | -0.0027 | / | Pass |
| | | | -20 | NV | -6.30 | -0.0017 | / | Pass |
| | | | -10 | NV | -6.10 | -0.0016 | / | Pass |
| | | | 0 | NV | -9.20 | -0.0025 | / | Pass |
| | | | 10 | NV | -4.60 | -0.0012 | / | Pass |
| | | | 20 | NV | -18.50 | -0.0049 | / | Pass |
| | | | 30 | NV | -7.90 | -0.0021 | / | Pass |
| | | | 40 | NV | -21.20 | -0.0057 | / | Pass |
| 50 | NV | -21.60 | -0.0058 | / | Pass | | | |
| DFT-s-OFDM 64 QAM | 3750 | Outer_Full | 20 | LV | -11.60 | -0.0031 | / | Pass |
| | | | | HV | -15.70 | -0.0042 | / | Pass |
| | | | -30 | NV | -8.00 | -0.0021 | / | Pass |
| | | | -20 | NV | -21.60 | -0.0058 | / | Pass |
| | | | -10 | NV | -10.10 | -0.0027 | / | Pass |
| | | | 0 | NV | -14.90 | -0.0040 | / | Pass |
| | | | 10 | NV | -22.80 | -0.0061 | / | Pass |
| | | | 20 | NV | -12.60 | -0.0034 | / | Pass |
| | | | 30 | NV | -9.50 | -0.0025 | / | Pass |
| | | | 40 | NV | -10.40 | -0.0028 | / | Pass |



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| | | | | | | | | |
|--------------------|--------|------------|-----------------|--------|------------|---------|----|--------|
| DFT-s-OFDM 256 QAM | 3750 | Outer_Full | 50 | NV | -17.40 | -0.0046 | / | Pass |
| | | | 20 | LV | -5.10 | -0.0014 | / | Pass |
| | | | | HV | -19.80 | -0.0053 | / | Pass |
| | | | -30 | NV | -22.00 | -0.0059 | / | Pass |
| | | | -20 | NV | -17.30 | -0.0046 | / | Pass |
| | | | -10 | NV | -11.80 | -0.0031 | / | Pass |
| | | | 0 | NV | -11.40 | -0.0030 | / | Pass |
| | | | 10 | NV | -19.70 | -0.0053 | / | Pass |
| | | | 20 | NV | -11.70 | -0.0031 | / | Pass |
| | | | 30 | NV | -16.80 | -0.0045 | / | Pass |
| | | | 40 | NV | -11.20 | -0.0030 | / | Pass |
| | | | 50 | NV | -5.60 | -0.0015 | / | Pass |
| CP-OFDM QPSK | 3750 | Outer_Full | 20 | LV | -17.40 | -0.0046 | / | Pass |
| | | | | HV | -4.80 | -0.0013 | / | Pass |
| | | | -30 | NV | -10.30 | -0.0027 | / | Pass |
| | | | -20 | NV | -15.20 | -0.0041 | / | Pass |
| | | | -10 | NV | -22.70 | -0.0061 | / | Pass |
| | | | 0 | NV | -14.10 | -0.0038 | / | Pass |
| | | | 10 | NV | -10.00 | -0.0027 | / | Pass |
| | | | 20 | NV | -17.30 | -0.0046 | / | Pass |
| | | | 30 | NV | -6.70 | -0.0018 | / | Pass |
| | | | 40 | NV | -23.90 | -0.0064 | / | Pass |
| | | | 50 | NV | -13.50 | -0.0036 | / | Pass |
| | | | CP-OFDM 16 QAM | 3750 | Outer_Full | 20 | LV | -19.30 |
| HV | -12.10 | -0.0032 | | | | | / | Pass |
| -30 | NV | -21.20 | | | | -0.0057 | / | Pass |
| -20 | NV | -33.00 | | | | -0.0088 | / | Pass |
| -10 | NV | -6.70 | | | | -0.0018 | / | Pass |
| 0 | NV | -17.50 | | | | -0.0047 | / | Pass |
| 10 | NV | -24.50 | | | | -0.0065 | / | Pass |
| 20 | NV | -9.00 | | | | -0.0024 | / | Pass |
| 30 | NV | -19.30 | | | | -0.0051 | / | Pass |
| 40 | NV | -15.90 | | | | -0.0042 | / | Pass |
| 50 | NV | -7.70 | | | | -0.0021 | / | Pass |
| CP-OFDM 64 QAM | 3750 | Outer_Full | | | | 20 | LV | -8.80 |
| | | | HV | -20.60 | -0.0055 | | / | Pass |
| | | | -30 | NV | -5.70 | -0.0015 | / | Pass |
| | | | -20 | NV | -16.00 | -0.0043 | / | Pass |
| | | | -10 | NV | -6.00 | -0.0016 | / | Pass |
| | | | 0 | NV | -9.00 | -0.0024 | / | Pass |
| | | | 10 | NV | -8.20 | -0.0022 | / | Pass |
| | | | 20 | NV | -7.90 | -0.0021 | / | Pass |
| | | | 30 | NV | -9.70 | -0.0026 | / | Pass |
| | | | 40 | NV | -9.60 | -0.0026 | / | Pass |
| | | | 50 | NV | -7.40 | -0.0020 | / | Pass |
| | | | CP-OFDM 256 QAM | 3750 | Outer_Full | 20 | LV | -13.10 |
| HV | -23.50 | -0.0063 | | | | | / | Pass |
| -30 | NV | -8.30 | | | | -0.0022 | / | Pass |



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| | | | | | | | | |
|--|--|--|-----|----|--------|---------|---|------|
| | | | -20 | NV | 5.50 | 0.0015 | / | Pass |
| | | | -10 | NV | -8.00 | -0.0021 | / | Pass |
| | | | 0 | NV | -10.30 | -0.0027 | / | Pass |
| | | | 10 | NV | -14.40 | -0.0038 | / | Pass |
| | | | 20 | NV | -12.70 | -0.0034 | / | Pass |
| | | | 30 | NV | -6.20 | -0.0017 | / | Pass |
| | | | 40 | NV | -15.60 | -0.0042 | / | Pass |
| | | | 50 | NV | -5.90 | -0.0016 | / | Pass |

2.9 30k_SISO_100MHz

2.9.1 Test Result

| 5G NR n78a SCS=30kHz SISO 100MHz | | | | | | | | |
|----------------------------------|-----------------|---------------|------------|-------|------------------|-----------------------|-------|---------|
| Modulation | Frequency (MHz) | RB Allocation | Temp. (°C) | Volt. | Freq. Error (Hz) | Freq. vs. rated (ppm) | | Verdict |
| | | | | | | Result | Limit | |
| DFT-s-OFDM PI/2 BPSK | 3750 | Outer_Full | 20 | LV | -4.10 | -0.0011 | / | Pass |
| | | | | HV | 2.80 | 0.0007 | / | Pass |
| | | | 30 | NV | -21.50 | -0.0057 | / | Pass |
| | | | | NV | -3.90 | -0.0010 | / | Pass |
| | | | | NV | -11.10 | -0.0030 | / | Pass |
| | | | | NV | -22.40 | -0.0060 | / | Pass |
| | | | | NV | -2.30 | -0.0006 | / | Pass |
| | | | | NV | 1.00 | 0.0003 | / | Pass |
| | | | | NV | -4.40 | -0.0012 | / | Pass |
| | | | | NV | -27.90 | -0.0074 | / | Pass |
| 50 | NV | -10.20 | -0.0027 | / | Pass | | | |
| DFT-s-OFDM QPSK | 3750 | Outer_Full | 20 | LV | -17.10 | -0.0046 | / | Pass |
| | | | | HV | -15.10 | -0.0040 | / | Pass |
| | | | 30 | NV | -21.60 | -0.0058 | / | Pass |
| | | | | NV | -9.20 | -0.0025 | / | Pass |
| | | | | NV | -12.80 | -0.0034 | / | Pass |
| | | | | NV | -11.20 | -0.0030 | / | Pass |
| | | | | NV | -17.10 | -0.0046 | / | Pass |
| | | | | NV | -19.40 | -0.0052 | / | Pass |
| | | | | NV | -13.10 | -0.0035 | / | Pass |
| | | | | NV | -22.60 | -0.0060 | / | Pass |
| 50 | NV | -27.10 | -0.0072 | / | Pass | | | |
| DFT-s-OFDM 16 QAM | 3750 | Outer_Full | 20 | LV | -17.40 | -0.0046 | / | Pass |
| | | | | HV | -16.40 | -0.0044 | / | Pass |
| | | | 30 | NV | -15.90 | -0.0042 | / | Pass |
| | | | | NV | 7.90 | 0.0021 | / | Pass |
| | | | | NV | -12.40 | -0.0033 | / | Pass |
| | | | | NV | -5.20 | -0.0014 | / | Pass |
| | | | | NV | -2.50 | -0.0007 | / | Pass |
| | | | | NV | -14.90 | -0.0040 | / | Pass |



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| | | | | | | | | |
|-------------------|--------|------------|--------------------|------|------------|---------|----|--------|
| | | | 30 | NV | -7.90 | -0.0021 | / | Pass |
| | | | 40 | NV | -17.50 | -0.0047 | / | Pass |
| | | | 50 | NV | 4.60 | 0.0012 | / | Pass |
| DFT-s-OFDM 64 QAM | 3750 | Outer_Full | 20 | LV | -11.40 | -0.0030 | / | Pass |
| | | | | HV | -11.20 | -0.0030 | / | Pass |
| | | | -30 | NV | 2.40 | 0.0006 | / | Pass |
| | | | -20 | NV | -10.50 | -0.0028 | / | Pass |
| | | | -10 | NV | -11.80 | -0.0031 | / | Pass |
| | | | 0 | NV | -2.30 | -0.0006 | / | Pass |
| | | | 10 | NV | -8.10 | -0.0022 | / | Pass |
| | | | 20 | NV | -9.20 | -0.0025 | / | Pass |
| | | | 30 | NV | -21.40 | -0.0057 | / | Pass |
| | | | 40 | NV | -11.70 | -0.0031 | / | Pass |
| | | | 50 | NV | 4.20 | 0.0011 | / | Pass |
| | | | DFT-s-OFDM 256 QAM | 3750 | Outer_Full | 20 | LV | -10.50 |
| HV | -10.10 | -0.0027 | | | | | / | Pass |
| -30 | NV | 7.50 | | | | 0.0020 | / | Pass |
| -20 | NV | -7.50 | | | | -0.0020 | / | Pass |
| -10 | NV | -12.40 | | | | -0.0033 | / | Pass |
| 0 | NV | -5.80 | | | | -0.0015 | / | Pass |
| 10 | NV | -6.50 | | | | -0.0017 | / | Pass |
| 20 | NV | -11.50 | | | | -0.0031 | / | Pass |
| 30 | NV | 9.90 | | | | 0.0026 | / | Pass |
| 40 | NV | -12.20 | | | | -0.0033 | / | Pass |
| 50 | NV | -14.80 | | | | -0.0039 | / | Pass |
| CP-OFDM QPSK | 3750 | Outer_Full | | | | 20 | LV | -6.80 |
| | | | HV | 6.60 | 0.0018 | | / | Pass |
| | | | -30 | NV | 8.80 | 0.0023 | / | Pass |
| | | | -20 | NV | -7.80 | -0.0021 | / | Pass |
| | | | -10 | NV | -13.30 | -0.0035 | / | Pass |
| | | | 0 | NV | -20.90 | -0.0056 | / | Pass |
| | | | 10 | NV | -11.20 | -0.0030 | / | Pass |
| | | | 20 | NV | 11.80 | 0.0031 | / | Pass |
| | | | 30 | NV | 2.90 | 0.0008 | / | Pass |
| | | | 40 | NV | -16.90 | -0.0045 | / | Pass |
| | | | 50 | NV | 1.30 | 0.0003 | / | Pass |
| | | | CP-OFDM 16 QAM | 3750 | Outer_Full | 20 | LV | -5.80 |
| HV | -12.10 | -0.0032 | | | | | / | Pass |
| -30 | NV | -12.10 | | | | -0.0032 | / | Pass |
| -20 | NV | -8.10 | | | | -0.0022 | / | Pass |
| -10 | NV | -8.10 | | | | -0.0022 | / | Pass |
| 0 | NV | -9.90 | | | | -0.0026 | / | Pass |
| 10 | NV | -5.30 | | | | -0.0014 | / | Pass |
| 20 | NV | -22.80 | | | | -0.0061 | / | Pass |
| 30 | NV | -7.90 | | | | -0.0021 | / | Pass |
| 40 | NV | -26.80 | | | | -0.0071 | / | Pass |
| 50 | NV | -7.00 | | | | -0.0019 | / | Pass |
| CP-OFDM 64 QAM | 3750 | Outer_Full | | | | 20 | LV | -7.80 |



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| | | | | | | | | | | | |
|-----------------|------|------------|-----|----|--------|---------|----|--------|---------|---|------|
| | | | | HV | -7.80 | -0.0021 | / | Pass | | | |
| | | | -30 | NV | 1.70 | 0.0005 | / | Pass | | | |
| | | | -20 | NV | -13.30 | -0.0035 | / | Pass | | | |
| | | | -10 | NV | -12.10 | -0.0032 | / | Pass | | | |
| | | | 0 | NV | -10.60 | -0.0028 | / | Pass | | | |
| | | | 10 | NV | -9.40 | -0.0025 | / | Pass | | | |
| | | | 20 | NV | -1.40 | -0.0004 | / | Pass | | | |
| | | | 30 | NV | 3.60 | 0.0010 | / | Pass | | | |
| | | | 40 | NV | -12.00 | -0.0032 | / | Pass | | | |
| | | | 50 | NV | -12.50 | -0.0033 | / | Pass | | | |
| CP-OFDM 256 QAM | 3750 | Outer_Full | 20 | LV | -16.90 | -0.0045 | / | Pass | | | |
| | | | | HV | -13.00 | -0.0035 | / | Pass | | | |
| | | | | | | -30 | NV | -8.30 | -0.0022 | / | Pass |
| | | | | | | -20 | NV | -10.30 | -0.0027 | / | Pass |
| | | | | | | -10 | NV | -5.90 | -0.0016 | / | Pass |
| | | | | | | 0 | NV | -14.60 | -0.0039 | / | Pass |
| | | | | | | 10 | NV | -3.80 | -0.0010 | / | Pass |
| | | | | | | 20 | NV | -19.00 | -0.0051 | / | Pass |
| | | | | | | 30 | NV | -6.90 | -0.0018 | / | Pass |
| | | | | | | 40 | NV | -14.60 | -0.0039 | / | Pass |
| | | | 50 | NV | -14.80 | -0.0039 | / | Pass | | | |



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3. 99% & 26dB Bandwidth

3.1 30k_SISO_20MHz_NTNV

3.1.1 Test Result

| 5G NR n78a SCS=30kHz SISO 20MHz NTN | | | | | | |
|-------------------------------------|-----------------|---------------|---------------------|----------------------|-------------|---------|
| Modulation | Frequency (MHz) | RB Allocation | 99% Bandwidth (MHz) | 26dB Bandwidth (MHz) | Limit (MHz) | Verdict |
| DFT-s-OFDM PI/2 BPSK | 3710.01 | Outer_Full | 18.08 | 19.33 | / | Pass |
| | 3750 | Outer_Full | 18.14 | 19.44 | / | Pass |
| | 3789.99 | Outer_Full | 18.06 | 19.13 | / | Pass |
| DFT-s-OFDM QPSK | 3710.01 | Outer_Full | 18.16 | 19.57 | / | Pass |
| | 3750 | Outer_Full | 18.10 | 19.30 | / | Pass |
| | 3789.99 | Outer_Full | 18.13 | 19.35 | / | Pass |
| DFT-s-OFDM 16 QAM | 3710.01 | Outer_Full | 18.14 | 19.34 | / | Pass |
| | 3750 | Outer_Full | 18.07 | 19.41 | / | Pass |
| | 3789.99 | Outer_Full | 18.21 | 19.30 | / | Pass |
| DFT-s-OFDM 64 QAM | 3710.01 | Outer_Full | 18.09 | 19.38 | / | Pass |
| | 3750 | Outer_Full | 18.14 | 19.33 | / | Pass |
| | 3789.99 | Outer_Full | 18.16 | 19.33 | / | Pass |
| DFT-s-OFDM 256 QAM | 3710.01 | Outer_Full | 18.08 | 19.33 | / | Pass |
| | 3750 | Outer_Full | 17.94 | 19.31 | / | Pass |
| | 3789.99 | Outer_Full | 18.06 | 19.35 | / | Pass |
| CP-OFDM QPSK | 3710.01 | Outer_Full | 18.38 | 19.63 | / | Pass |
| | 3750 | Outer_Full | 18.29 | 19.56 | / | Pass |
| | 3789.99 | Outer_Full | 18.37 | 19.68 | / | Pass |
| CP-OFDM 16 QAM | 3710.01 | Outer_Full | 18.16 | 19.65 | / | Pass |
| | 3750 | Outer_Full | 18.49 | 19.80 | / | Pass |
| | 3789.99 | Outer_Full | 18.42 | 19.73 | / | Pass |
| CP-OFDM 64 QAM | 3710.01 | Outer_Full | 18.31 | 19.72 | / | Pass |
| | 3750 | Outer_Full | 18.30 | 19.50 | / | Pass |
| | 3789.99 | Outer_Full | 18.44 | 19.99 | / | Pass |
| CP-OFDM 256 QAM | 3710.01 | Outer_Full | 18.38 | 19.82 | / | Pass |
| | 3750 | Outer_Full | 18.29 | 19.71 | / | Pass |
| | 3789.99 | Outer_Full | 18.36 | 19.62 | / | Pass |



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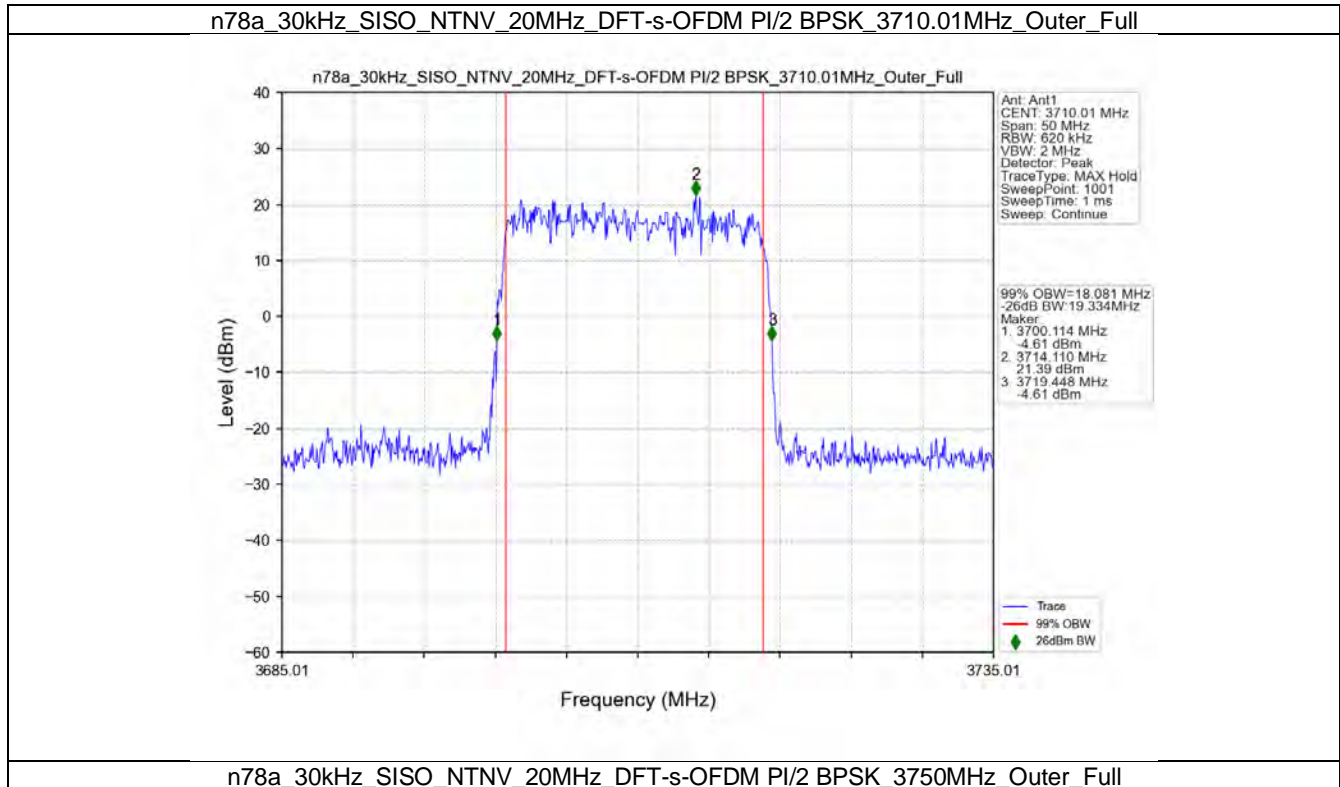
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3.1.2 Test Graph



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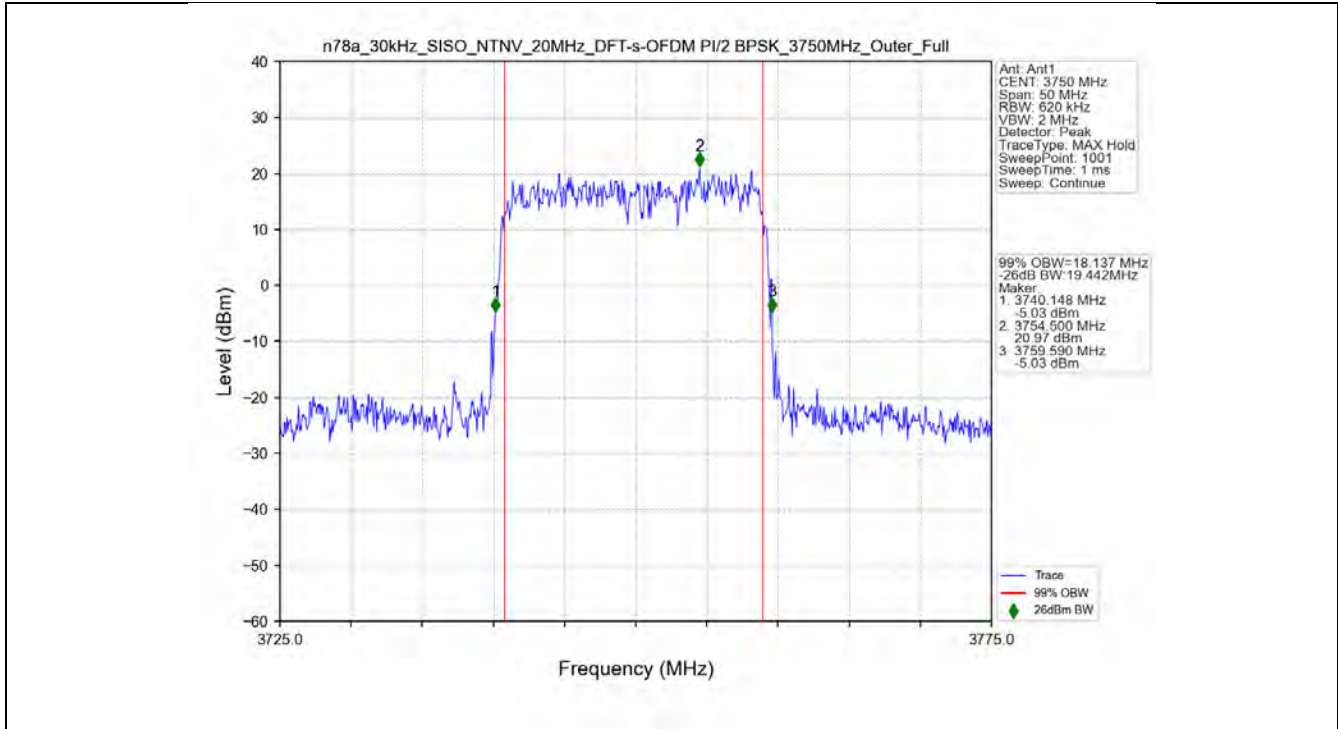


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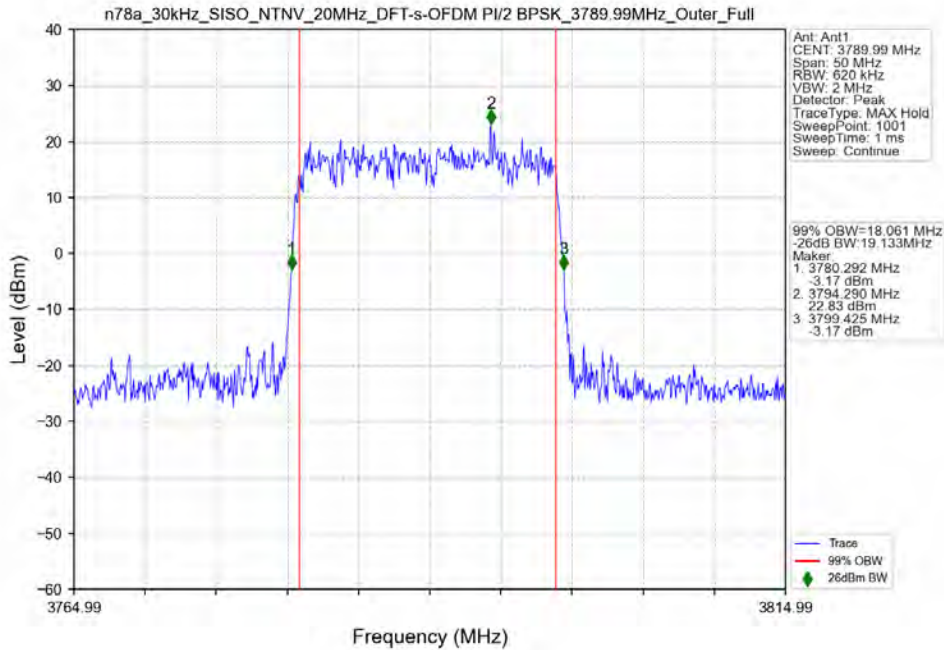
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n78a_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_3789.99MHz_Outer_Full



n78a_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_3710.01MHz_Outer_Full



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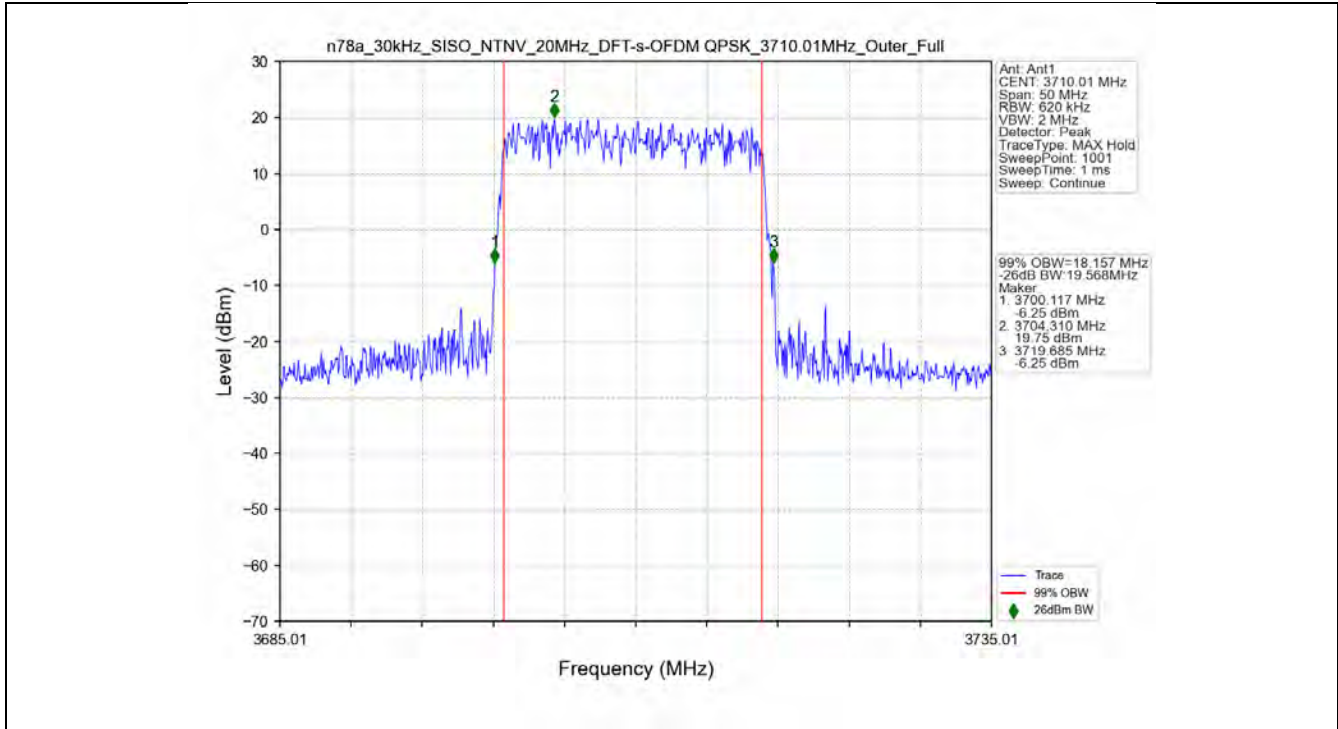


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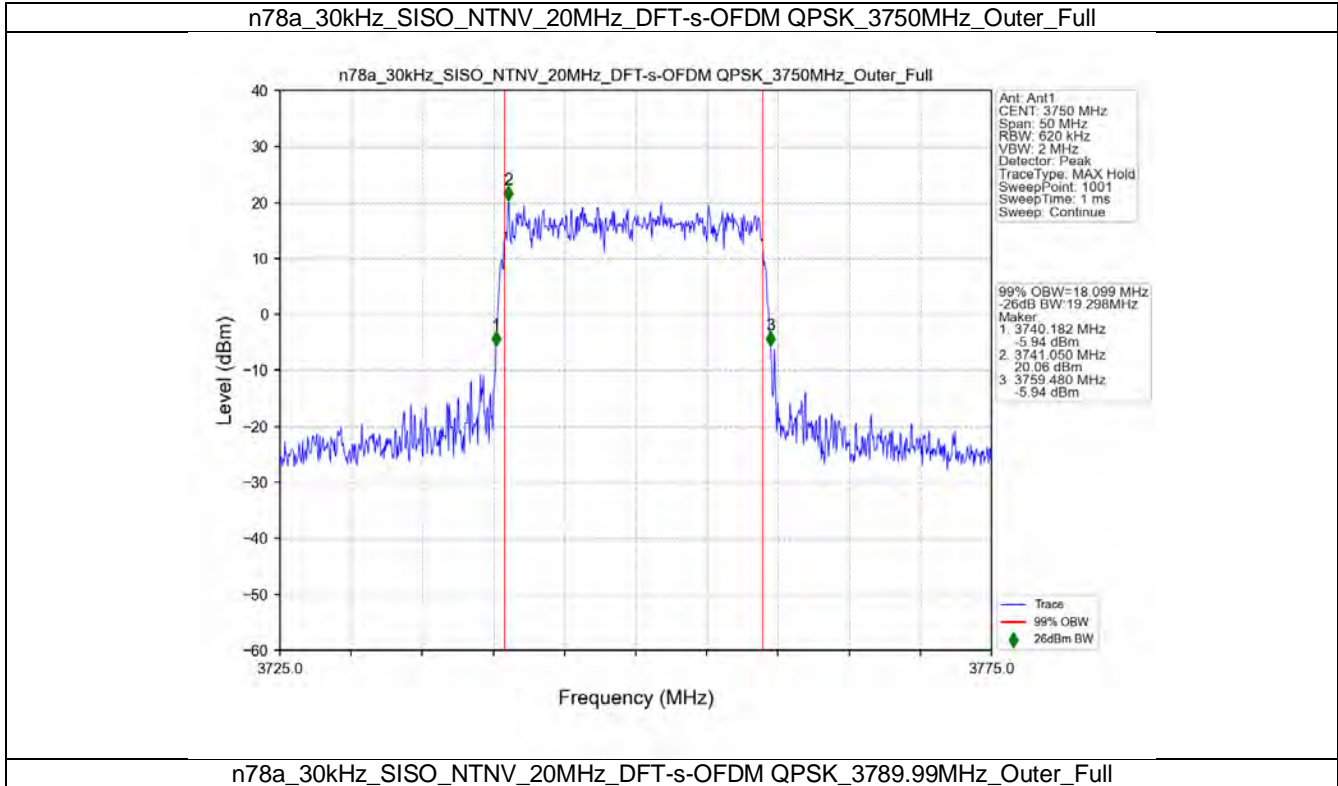


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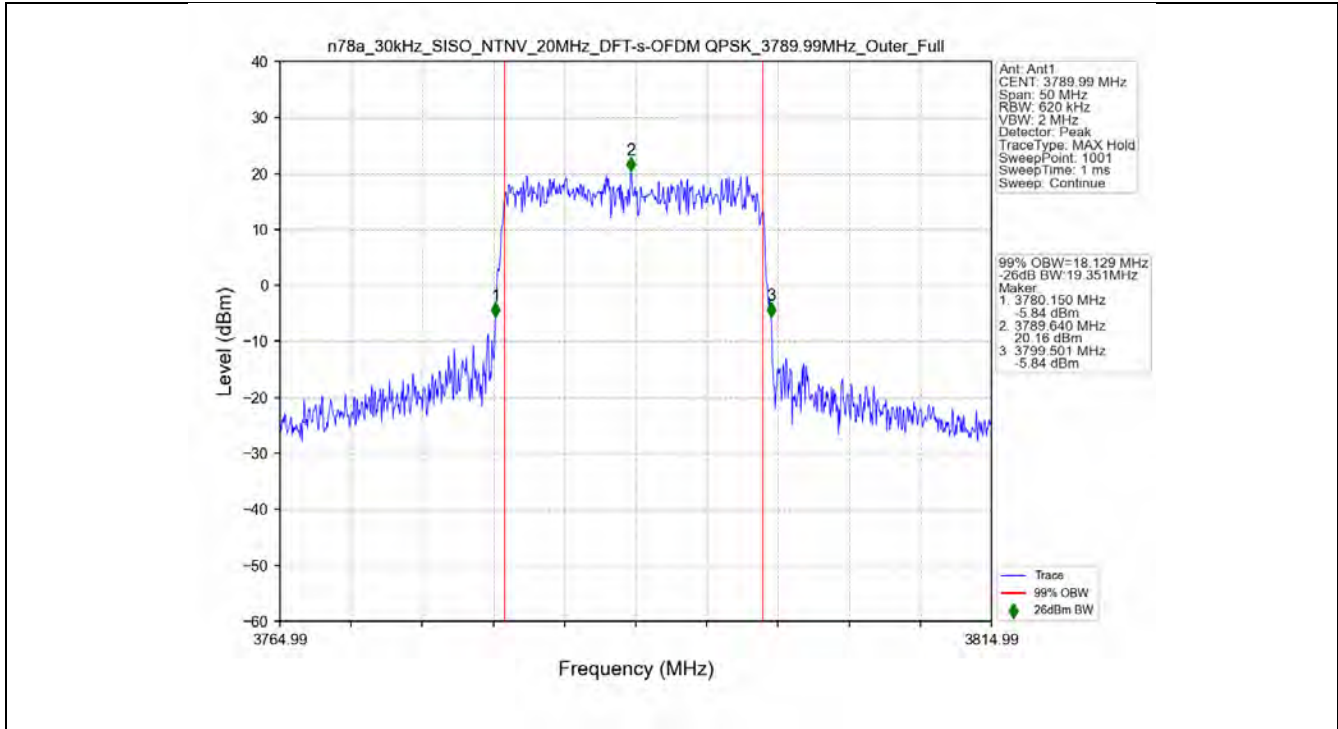


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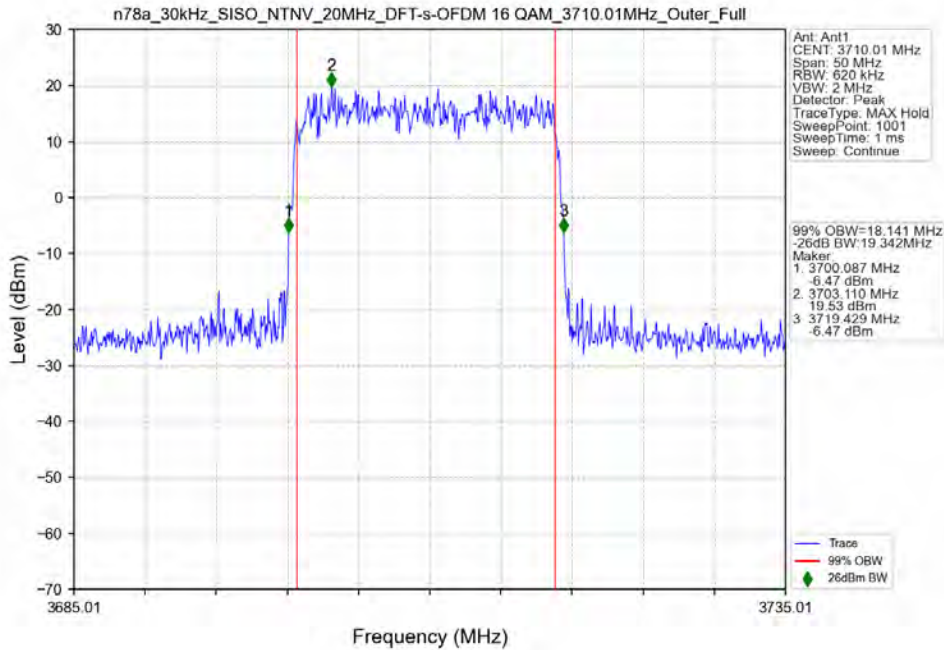
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n78a_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 16 QAM_3710.01MHz_Outer_Full



n78a_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 16 QAM_3750MHz_Outer_Full



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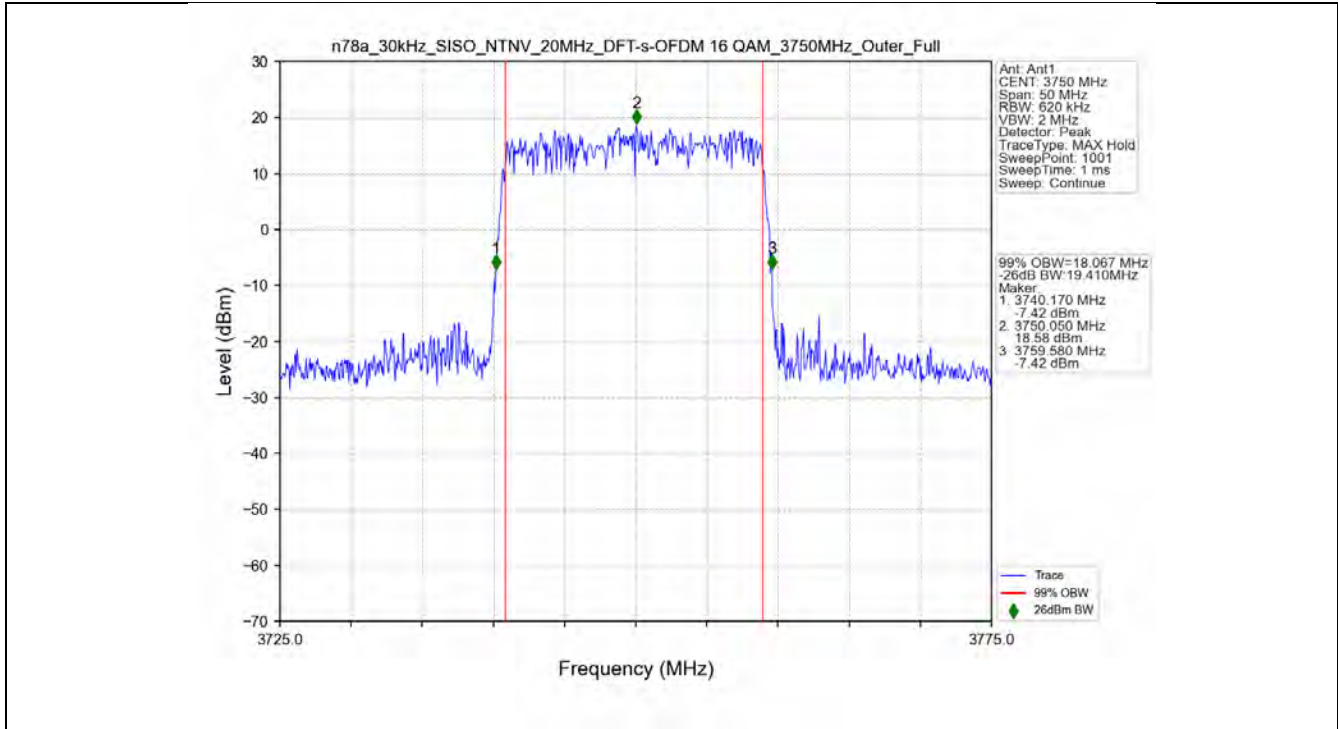


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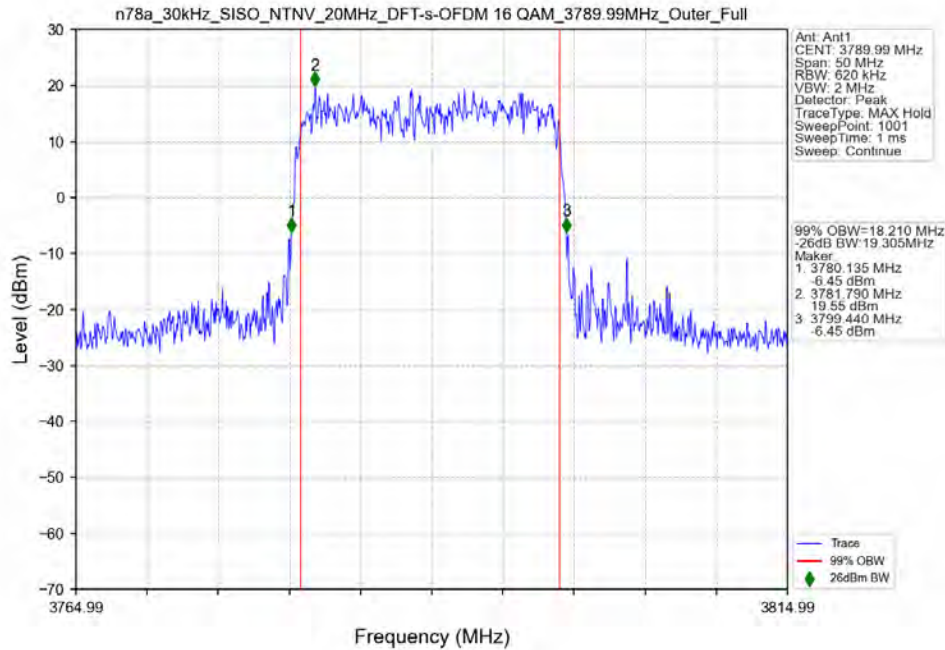
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n78a_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 16 QAM_3789.99MHz_Outer_Full



n78a_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 64 QAM_3710.01MHz_Outer_Full



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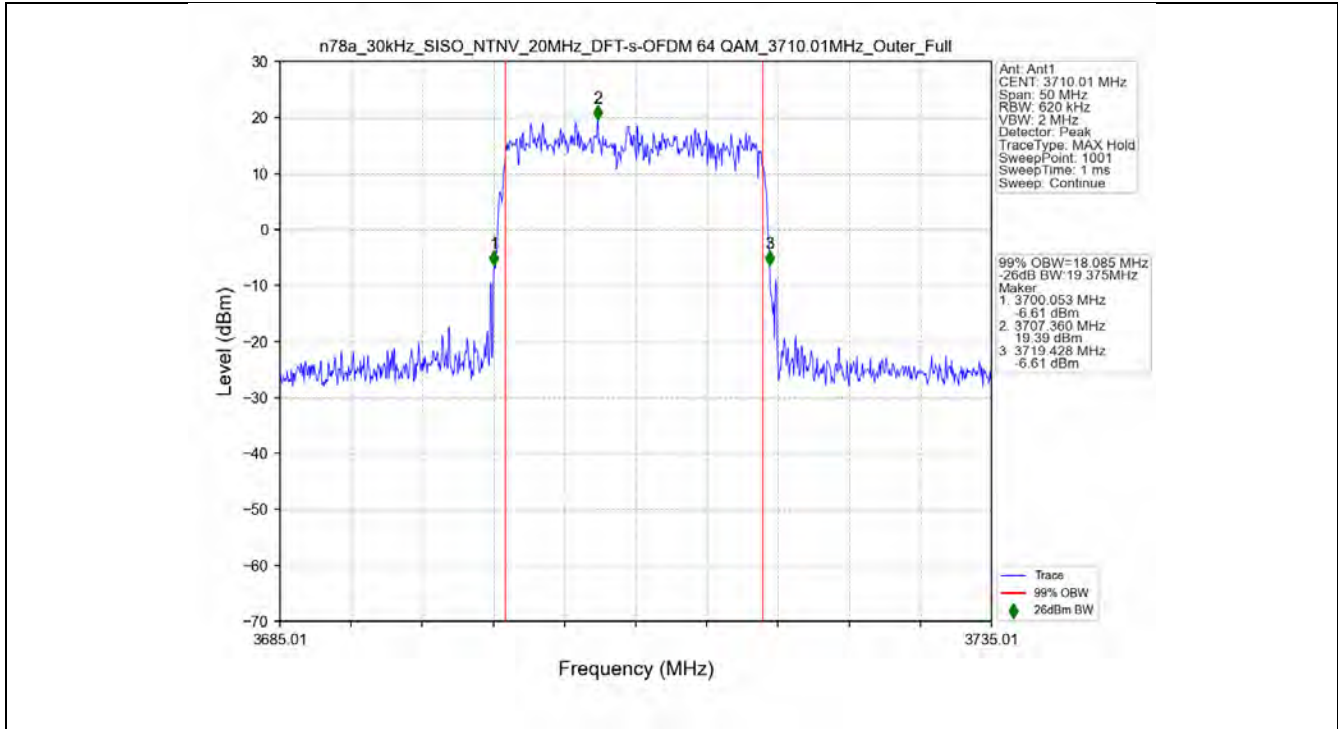


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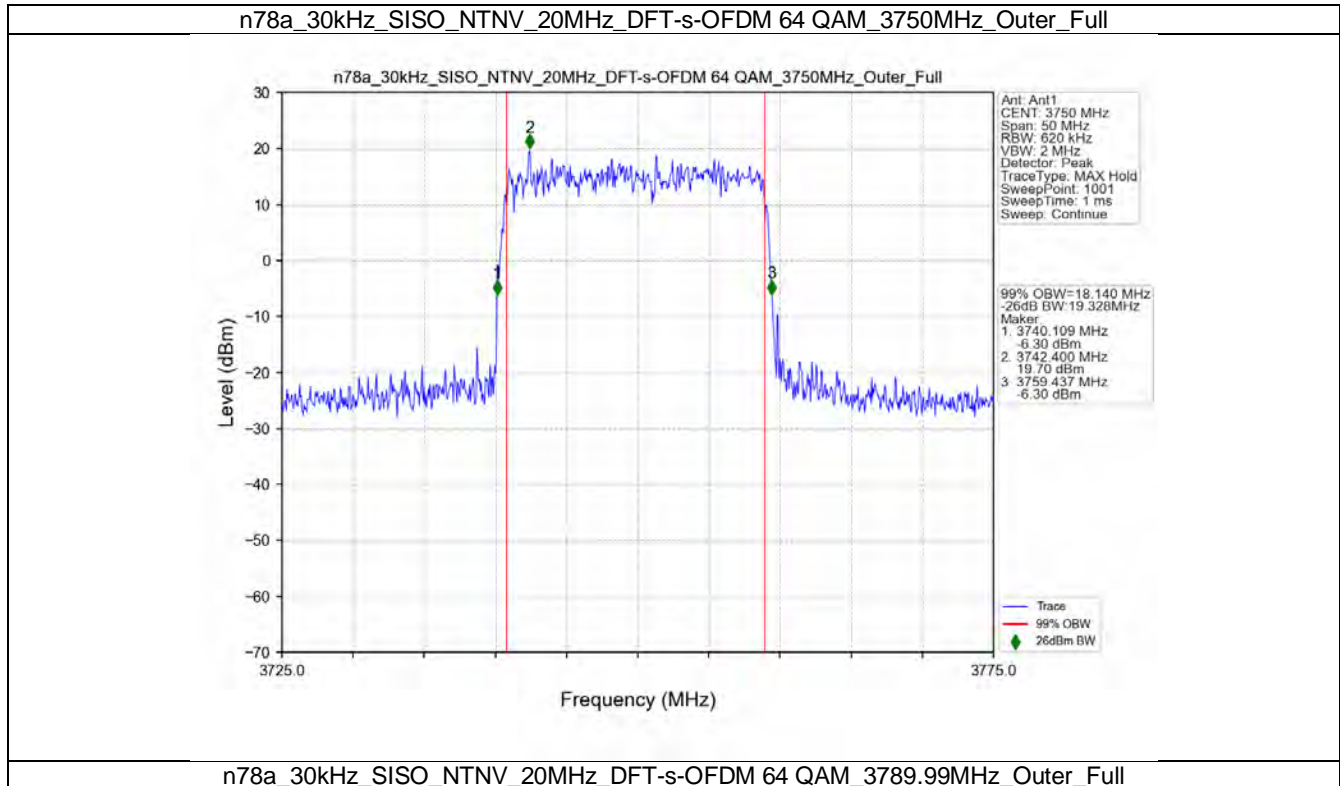


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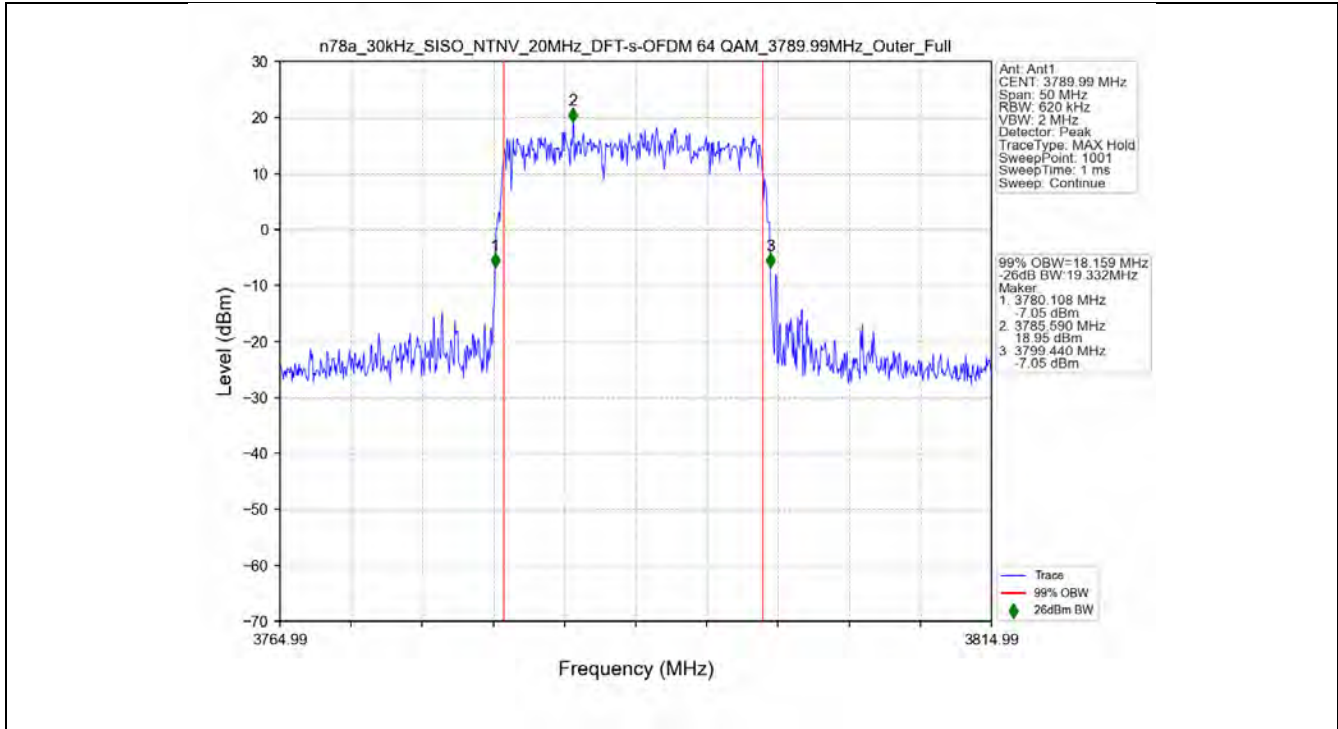


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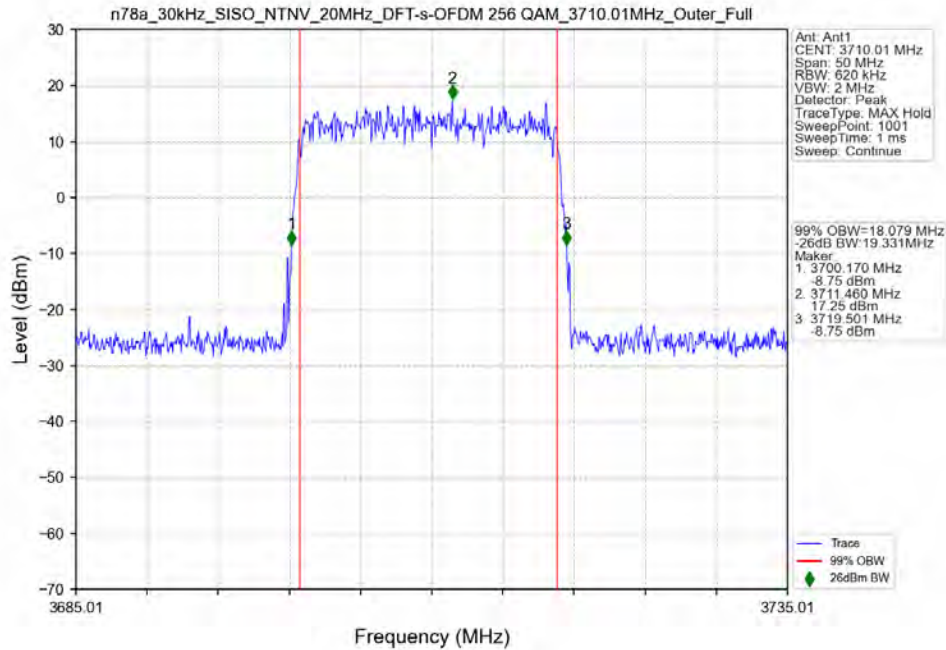
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n78a_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 256 QAM_3750MHz_Outer_Full



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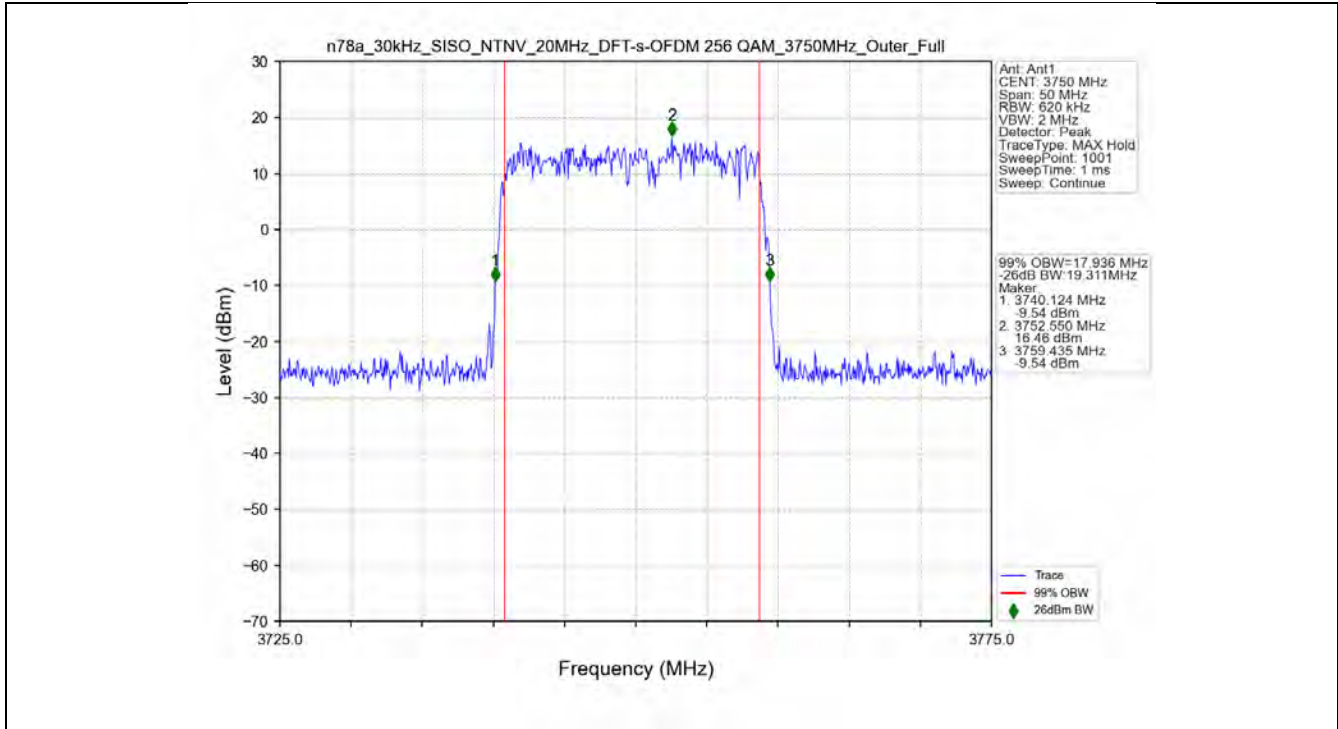


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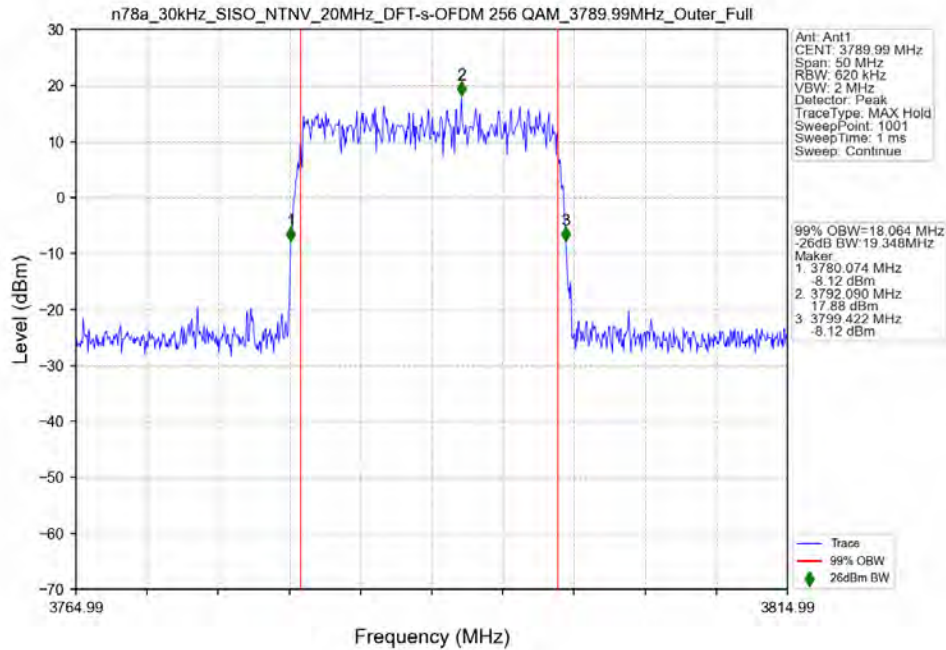
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n78a_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 256 QAM_3789.99MHz_Outer_Full



n78a_30kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_3710.01MHz_Outer_Full



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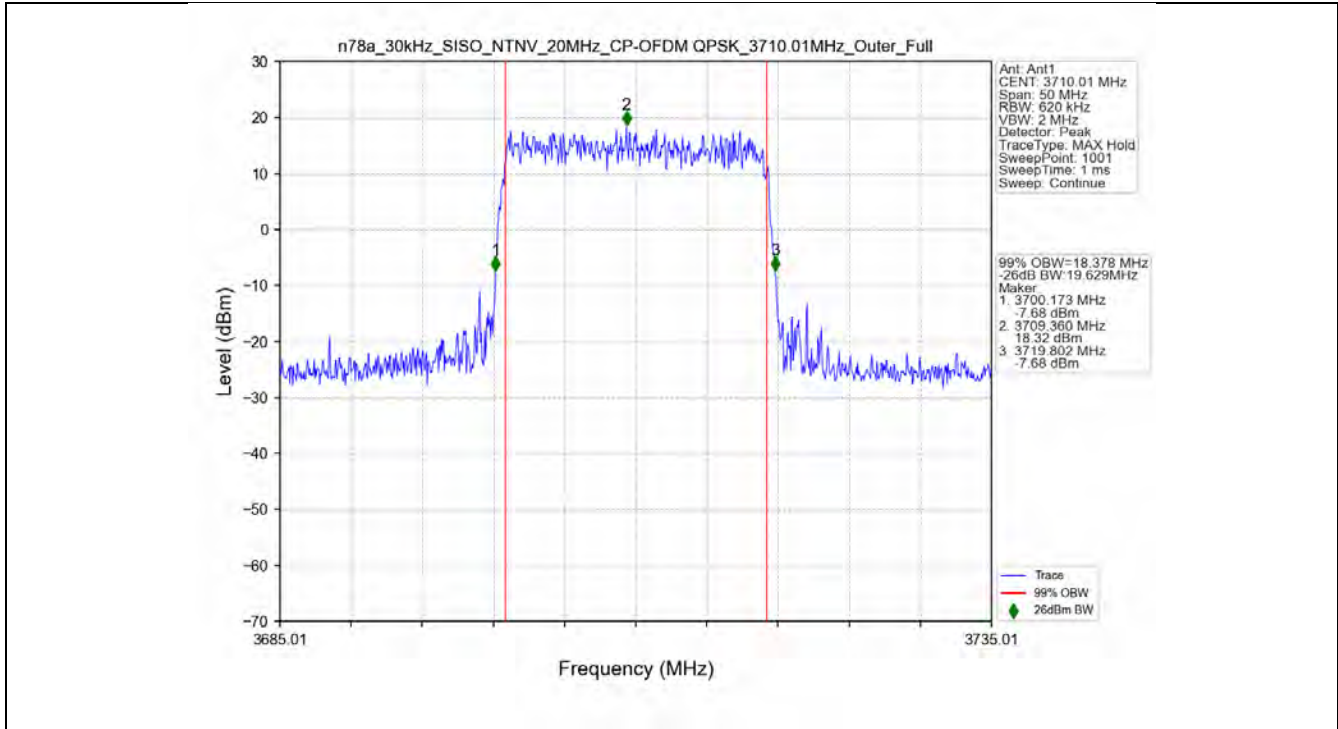


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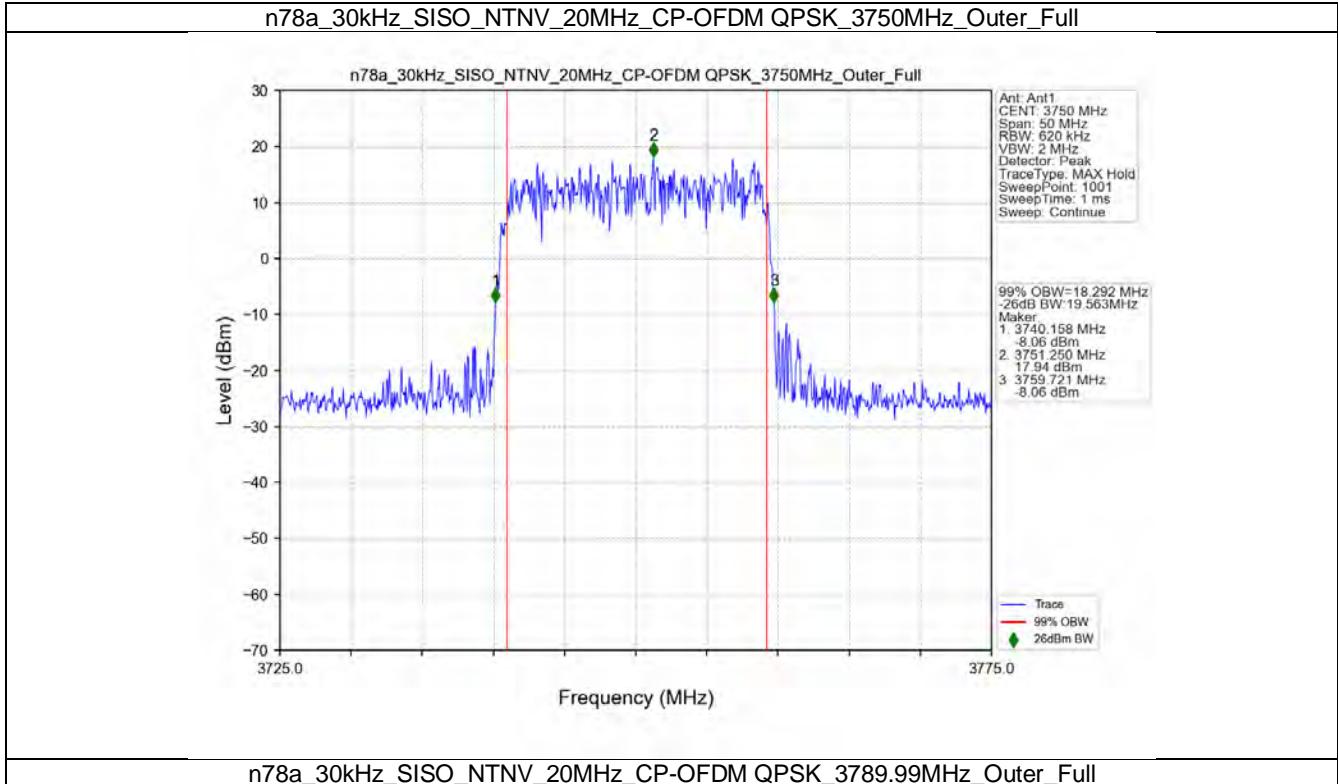


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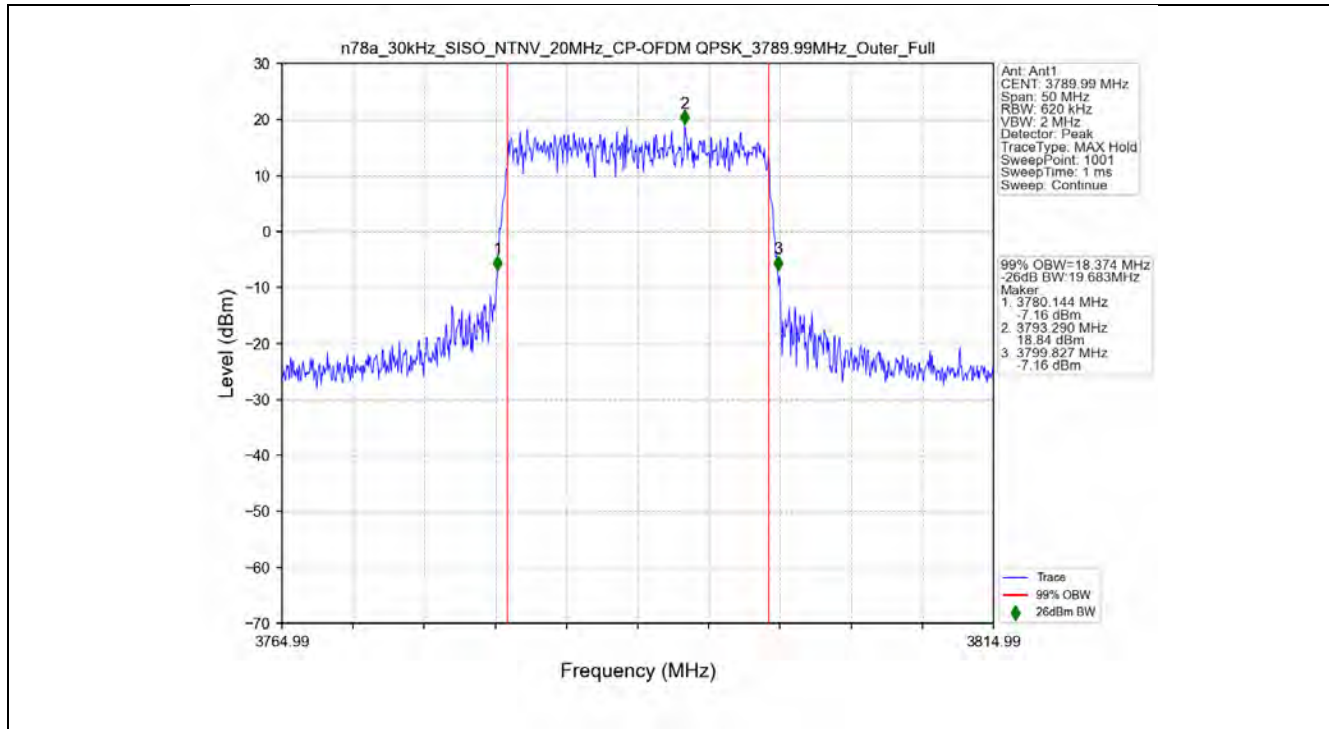
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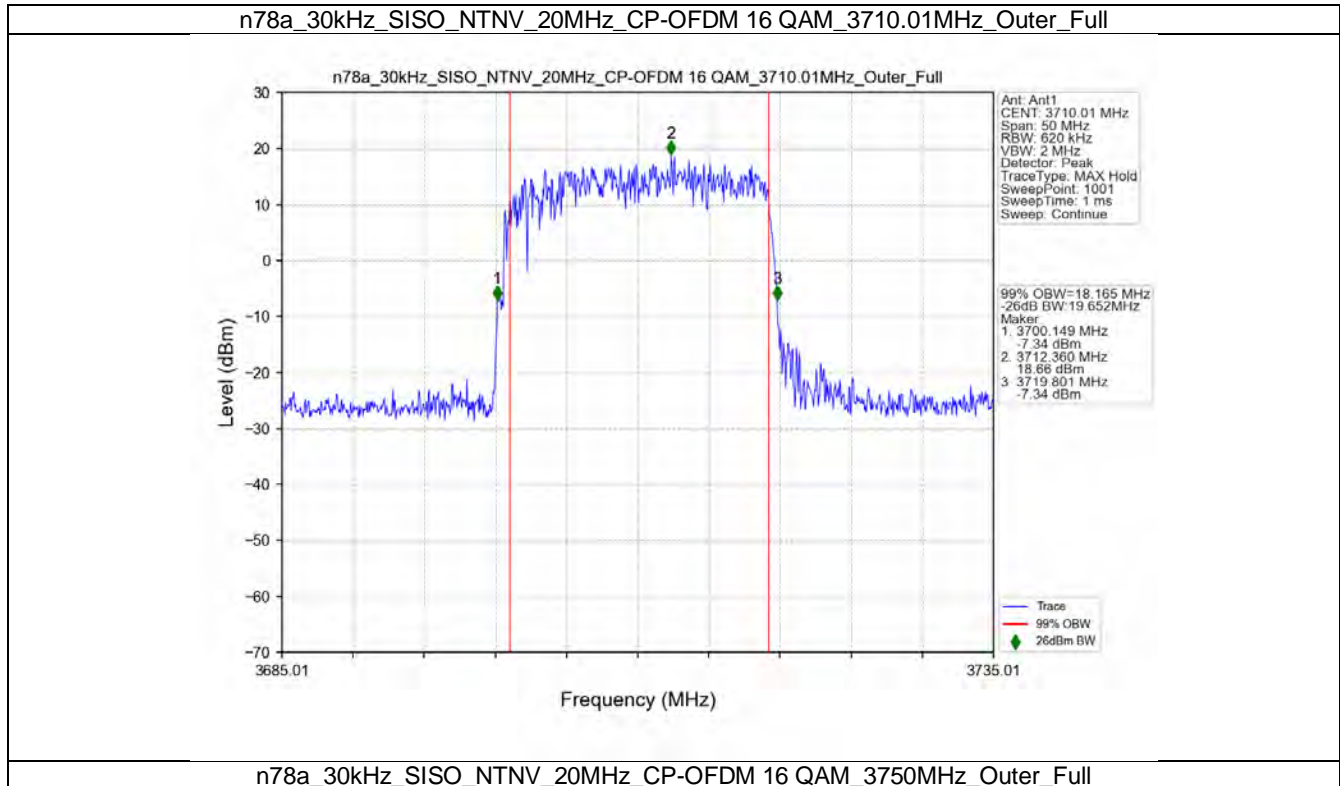


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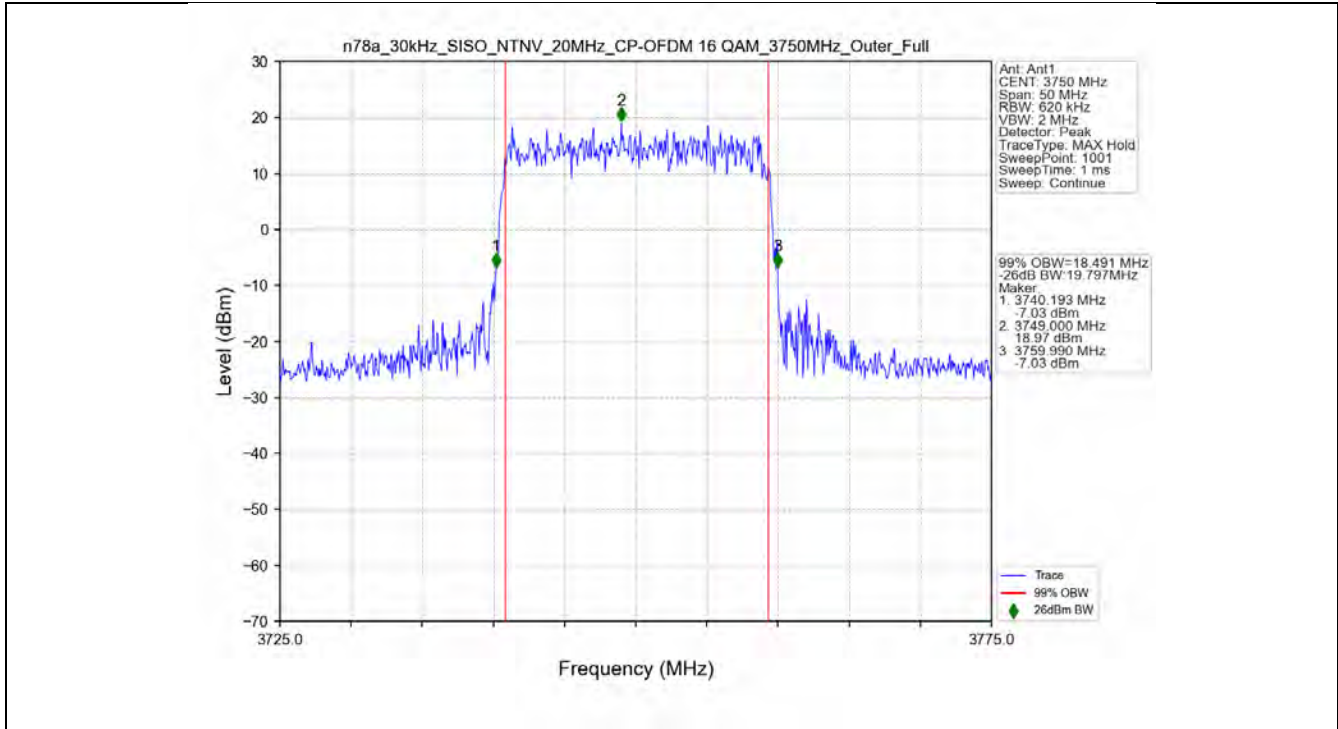


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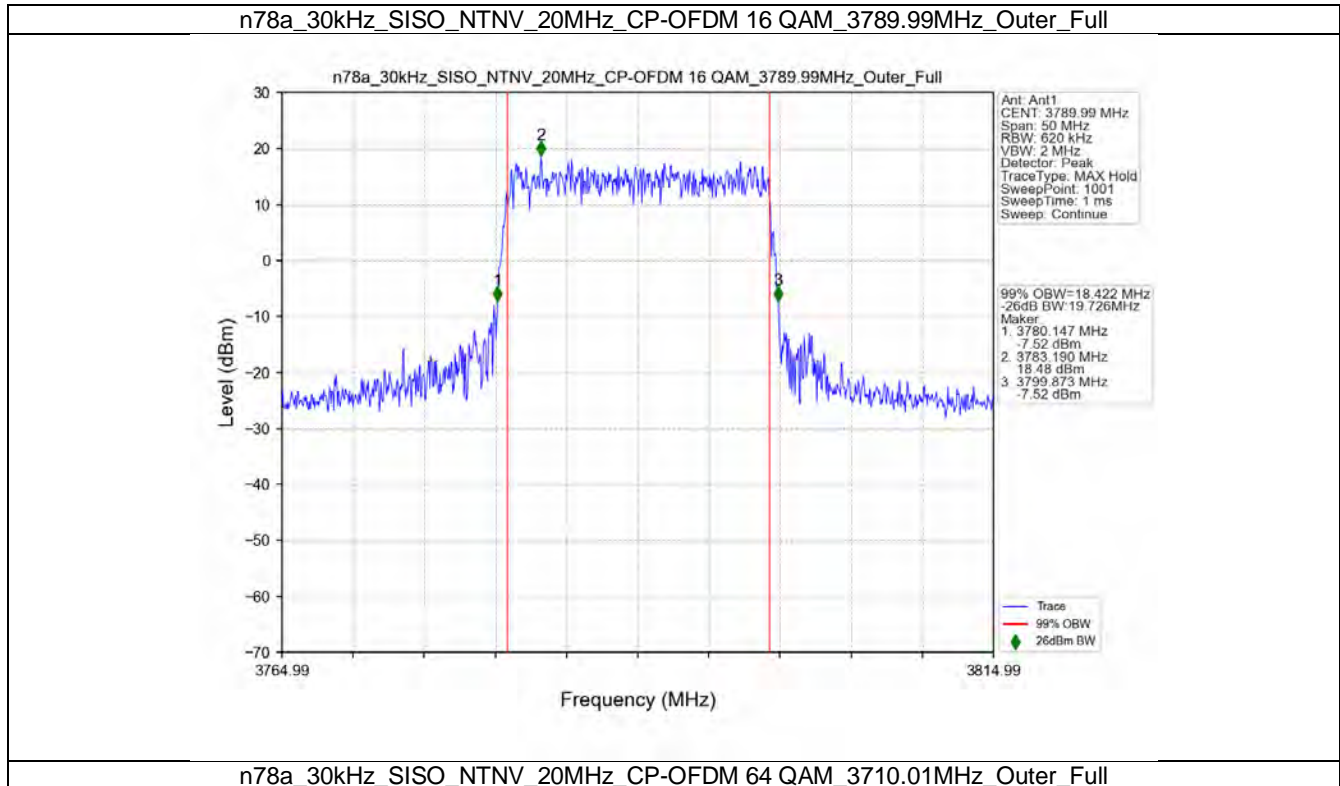


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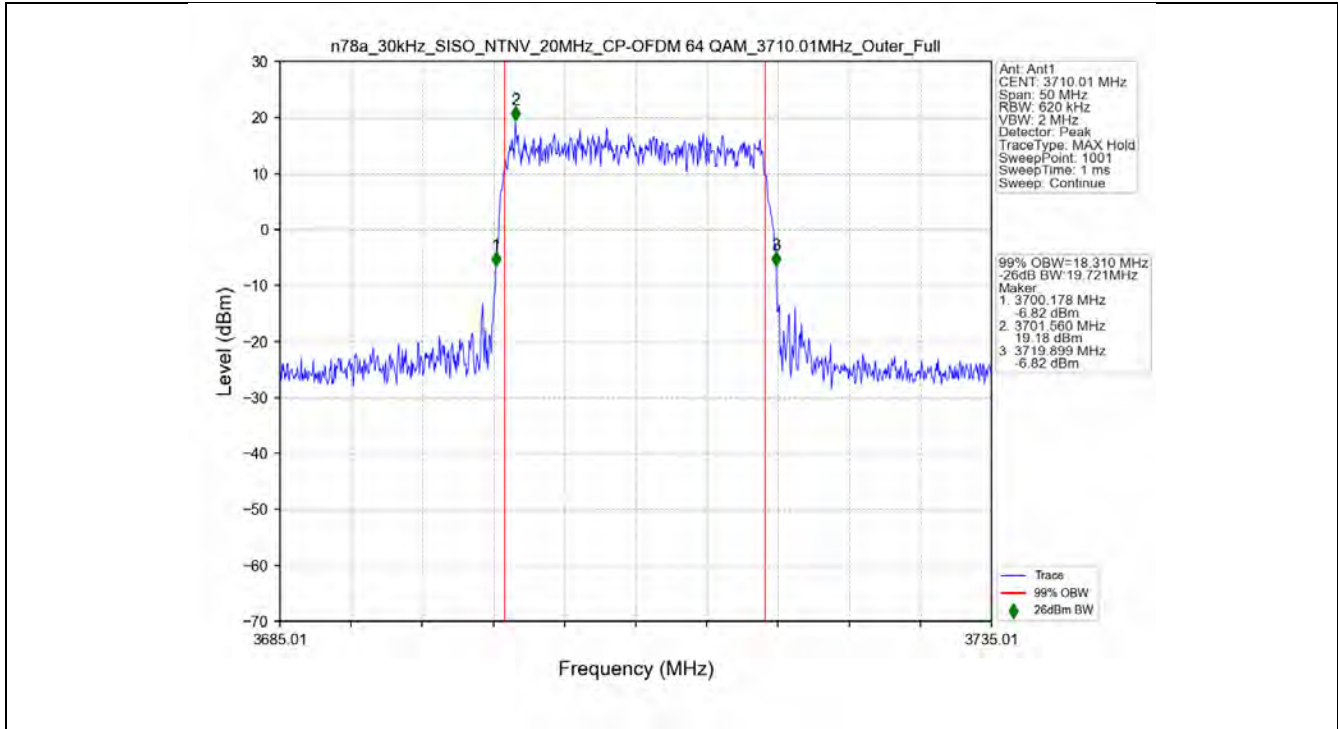


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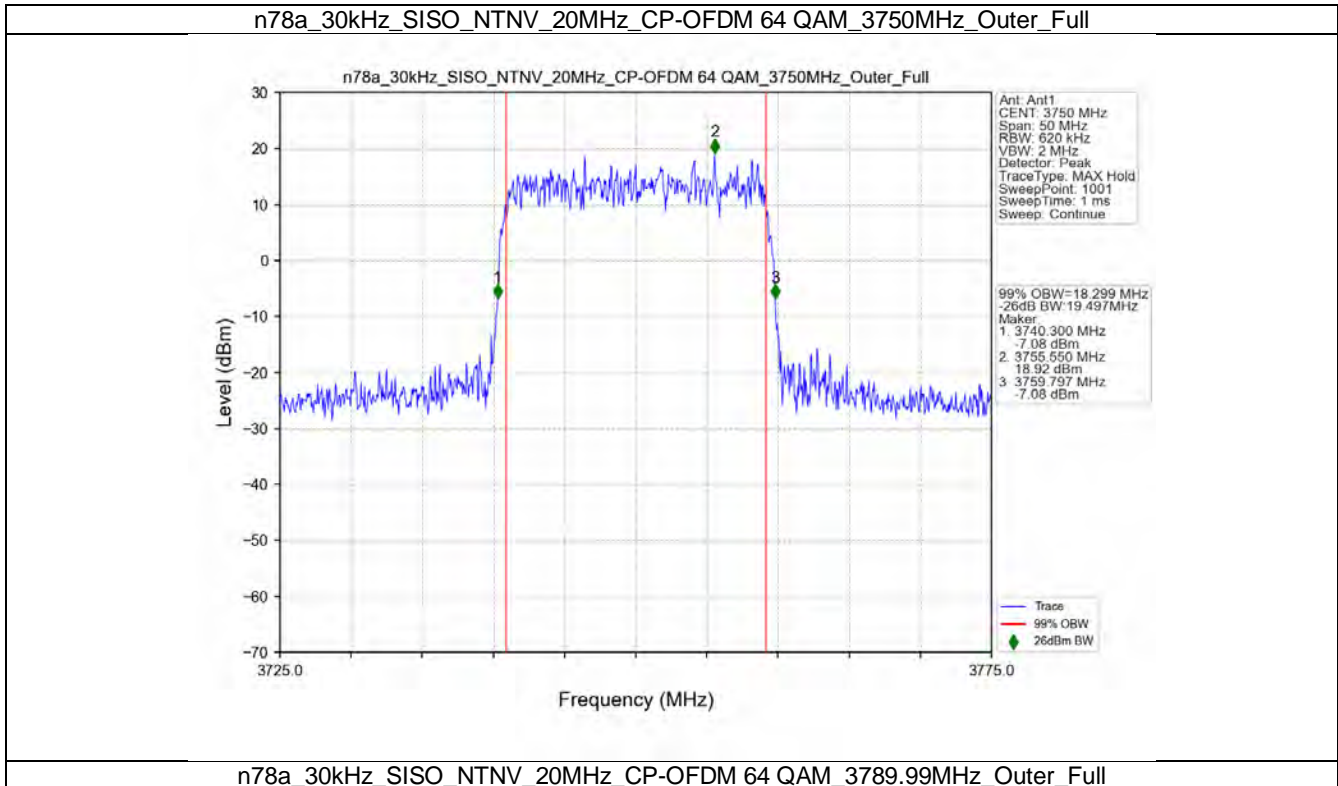


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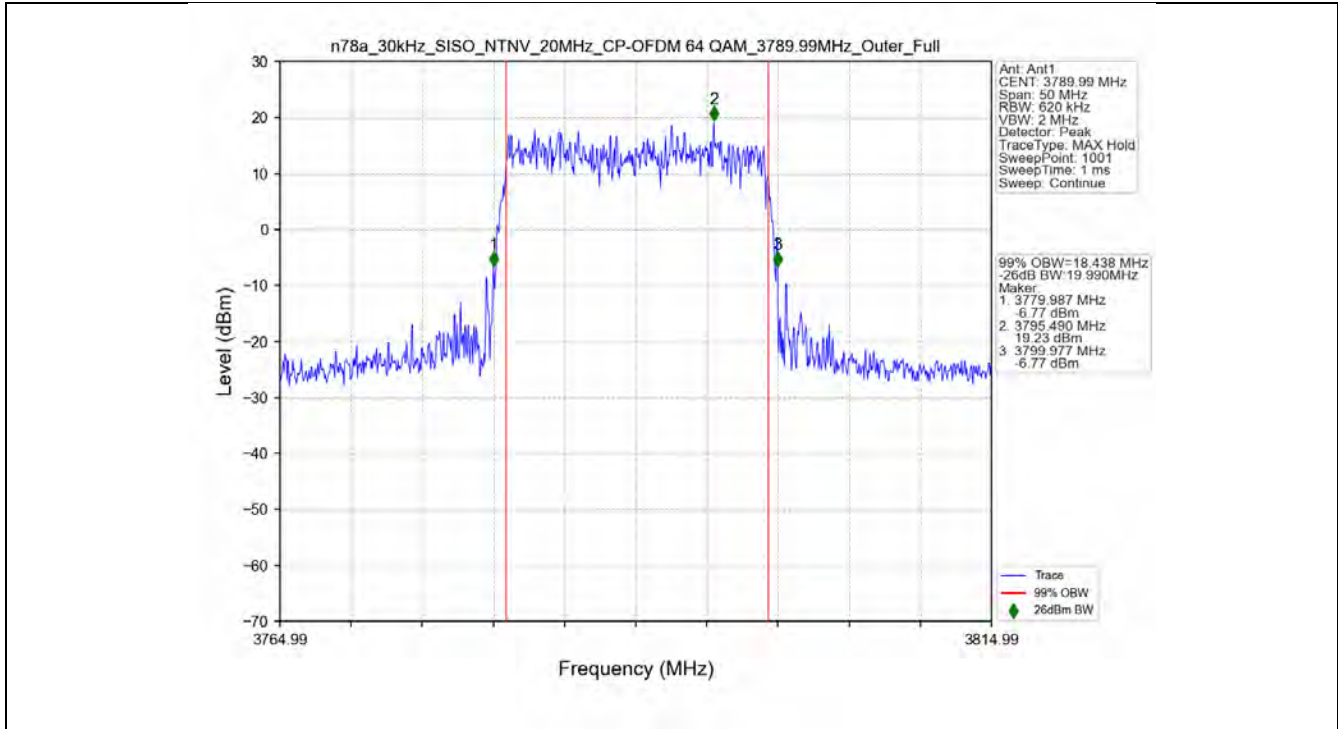


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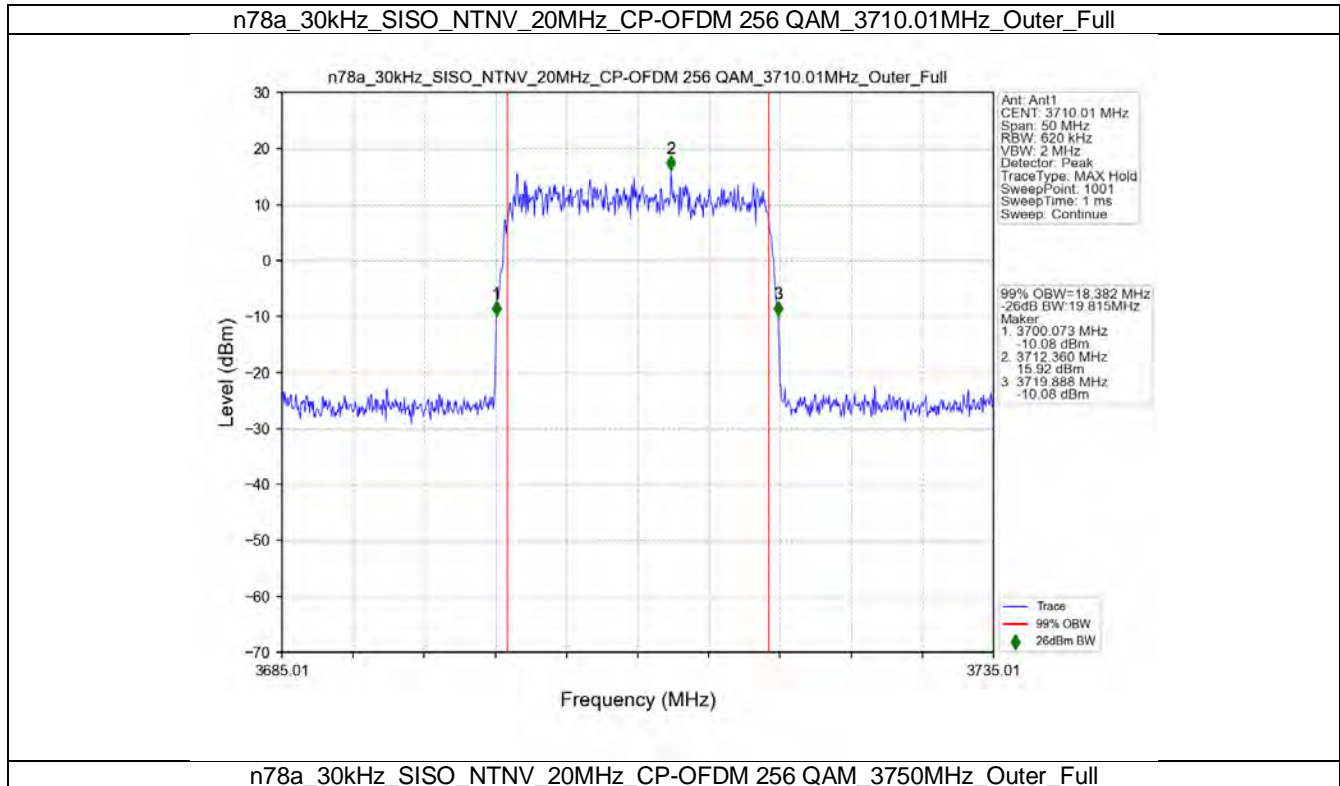


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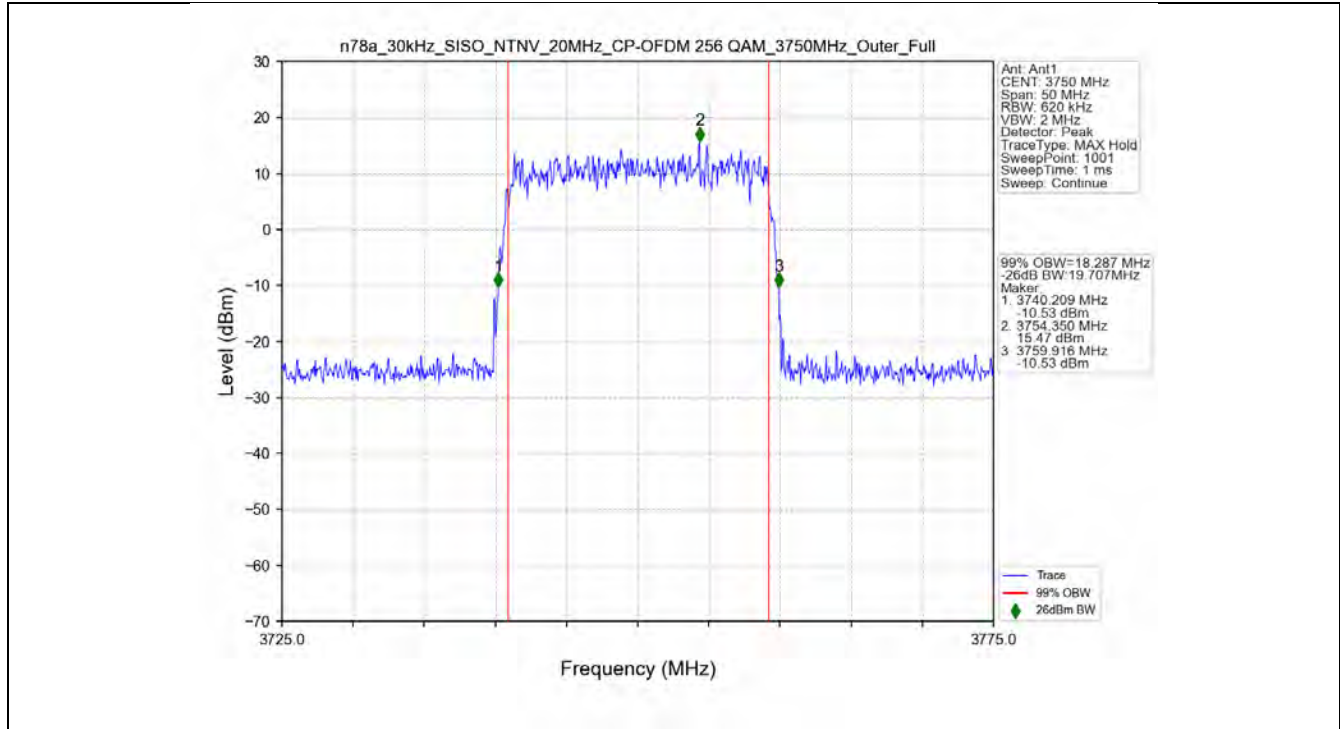


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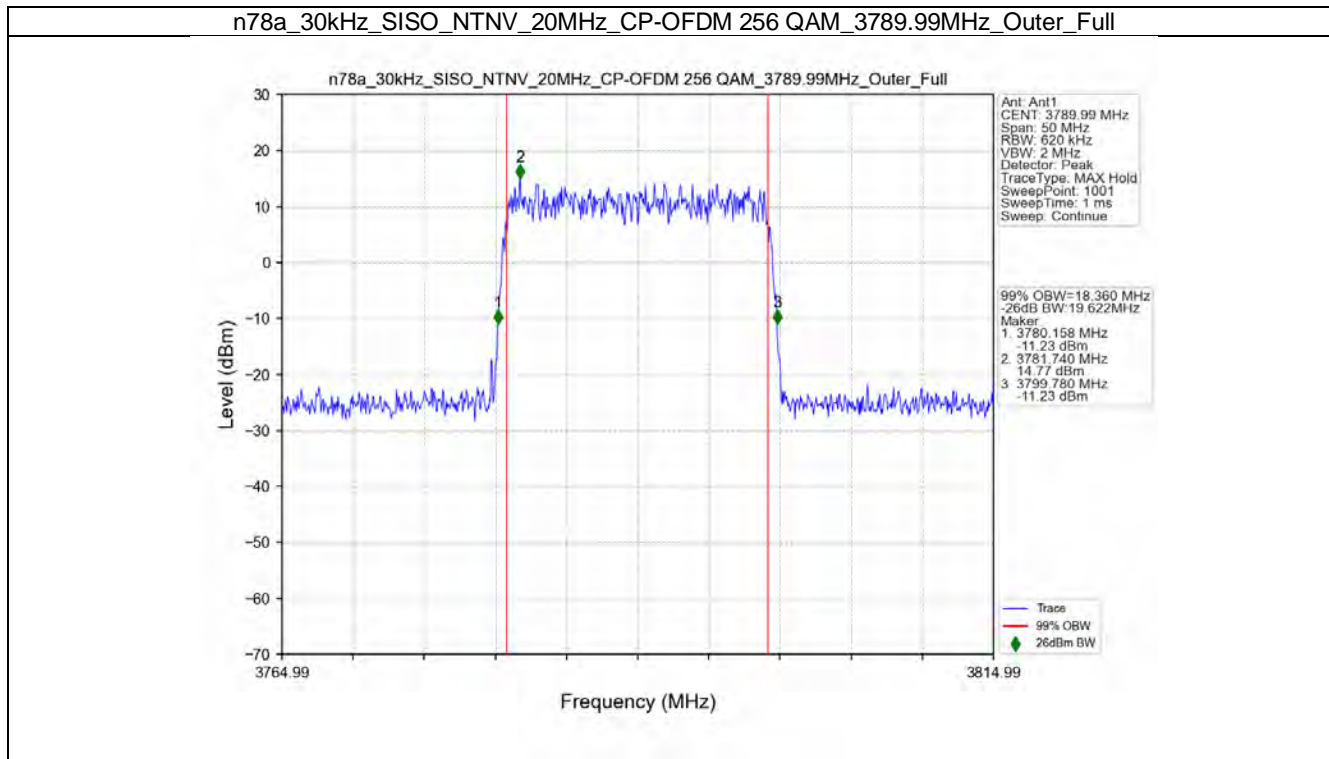
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3.2 30k_SISO_30MHz_NTNV

3.2.1 Test Result

| 5G NR n78a SCS=30kHz SISO 30MHz NNTV | | | | | | |
|--------------------------------------|-----------------|---------------|---------------------|----------------------|-------------|---------|
| Modulation | Frequency (MHz) | RB Allocation | 99% Bandwidth (MHz) | 26dB Bandwidth (MHz) | Limit (MHz) | Verdict |
| DFT-s-OFDM PI/2 BPSK | 3715.02 | Outer_Full | 27.10 | 28.83 | / | Pass |
| | 3750 | Outer_Full | 27.16 | 29.23 | / | Pass |
| | 3784.98 | Outer_Full | 27.17 | 28.89 | / | Pass |
| DFT-s-OFDM QPSK | 3715.02 | Outer_Full | 27.19 | 29.08 | / | Pass |
| | 3750 | Outer_Full | 27.13 | 29.01 | / | Pass |
| | 3784.98 | Outer_Full | 27.11 | 28.93 | / | Pass |
| DFT-s-OFDM 16 QAM | 3715.02 | Outer_Full | 27.11 | 28.81 | / | Pass |
| | 3750 | Outer_Full | 27.13 | 28.91 | / | Pass |
| | 3784.98 | Outer_Full | 27.26 | 29.11 | / | Pass |
| DFT-s-OFDM 64 QAM | 3715.02 | Outer_Full | 27.18 | 28.93 | / | Pass |
| | 3750 | Outer_Full | 27.11 | 28.95 | / | Pass |
| | 3784.98 | Outer_Full | 26.99 | 28.81 | / | Pass |
| DFT-s-OFDM 256 QAM | 3715.02 | Outer_Full | 27.08 | 29.03 | / | Pass |
| | 3750 | Outer_Full | 27.13 | 28.91 | / | Pass |
| | 3784.98 | Outer_Full | 26.96 | 28.82 | / | Pass |
| CP-OFDM QPSK | 3715.02 | Outer_Full | 28.03 | 29.90 | / | Pass |
| | 3750 | Outer_Full | 28.06 | 30.00 | / | Pass |
| | 3784.98 | Outer_Full | 28.18 | 30.07 | / | Pass |
| CP-OFDM 16 QAM | 3715.02 | Outer_Full | 28.00 | 29.93 | / | Pass |
| | 3750 | Outer_Full | 27.91 | 29.90 | / | Pass |
| | 3784.98 | Outer_Full | 28.10 | 30.10 | / | Pass |
| CP-OFDM 64 QAM | 3715.02 | Outer_Full | 28.15 | 29.89 | / | Pass |
| | 3750 | Outer_Full | 28.14 | 32.14 | / | Pass |
| | 3784.98 | Outer_Full | 27.95 | 29.87 | / | Pass |
| CP-OFDM 256 QAM | 3715.02 | Outer_Full | 27.98 | 29.80 | / | Pass |
| | 3750 | Outer_Full | 28.18 | 29.93 | / | Pass |
| | 3784.98 | Outer_Full | 28.18 | 29.95 | / | Pass |



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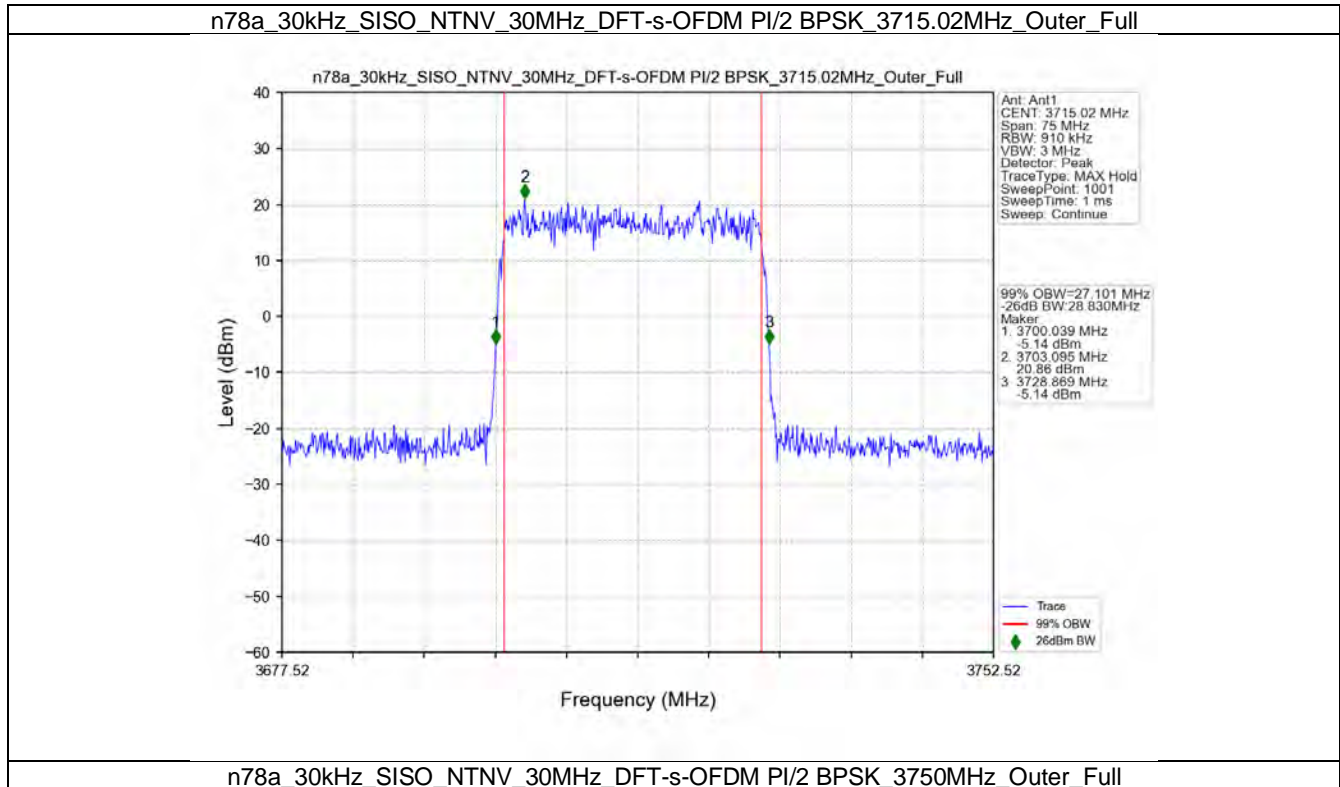
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3.2.2 Test Graph



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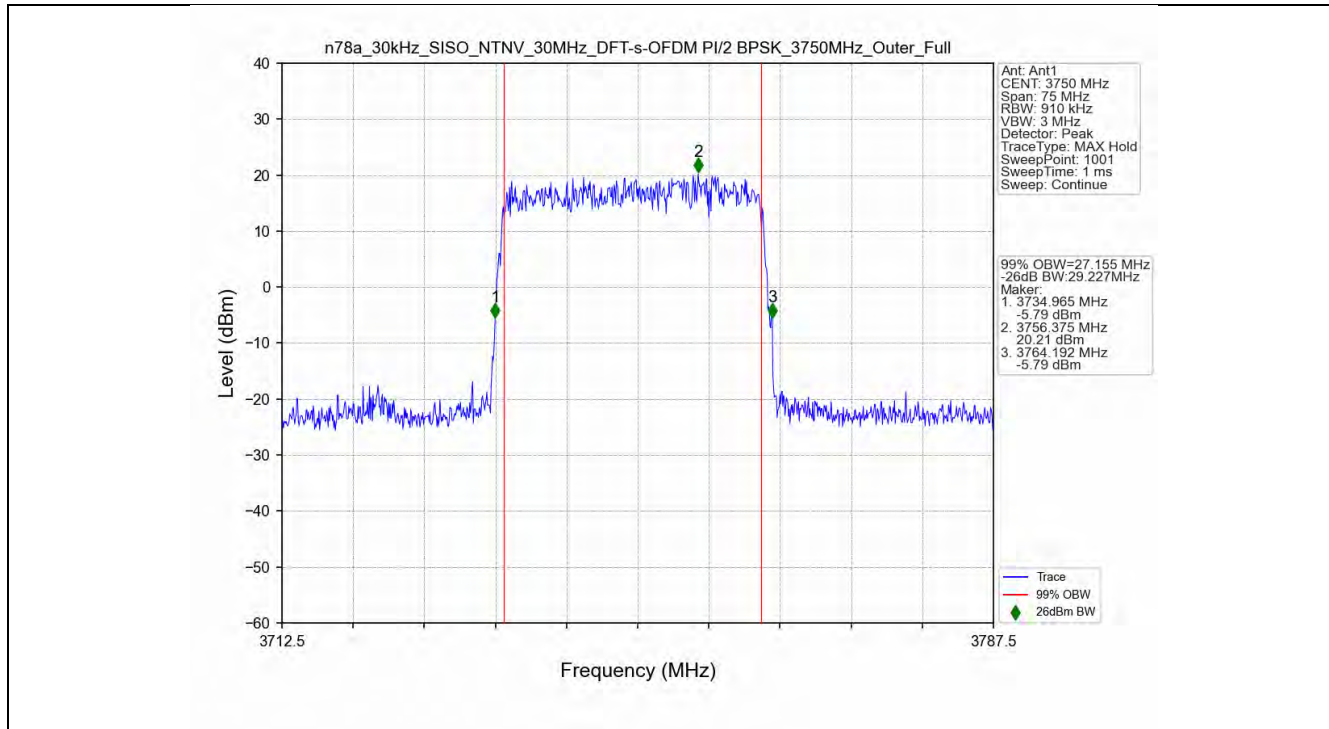
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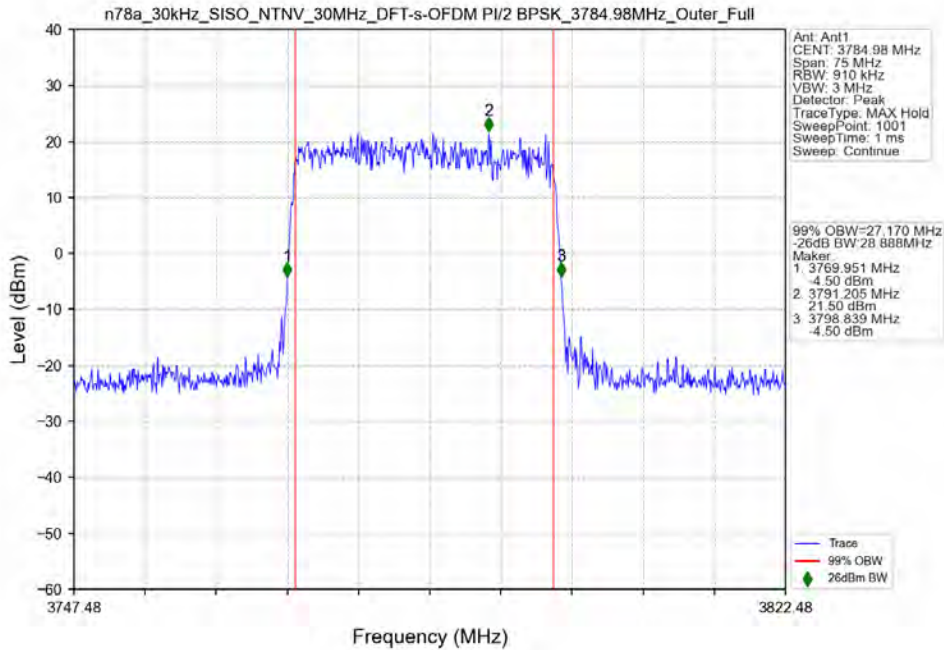
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n78a_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM PI/2 BPSK_3784.98MHz_Outer_Full



n78a_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM QPSK_3715.02MHz_Outer_Full



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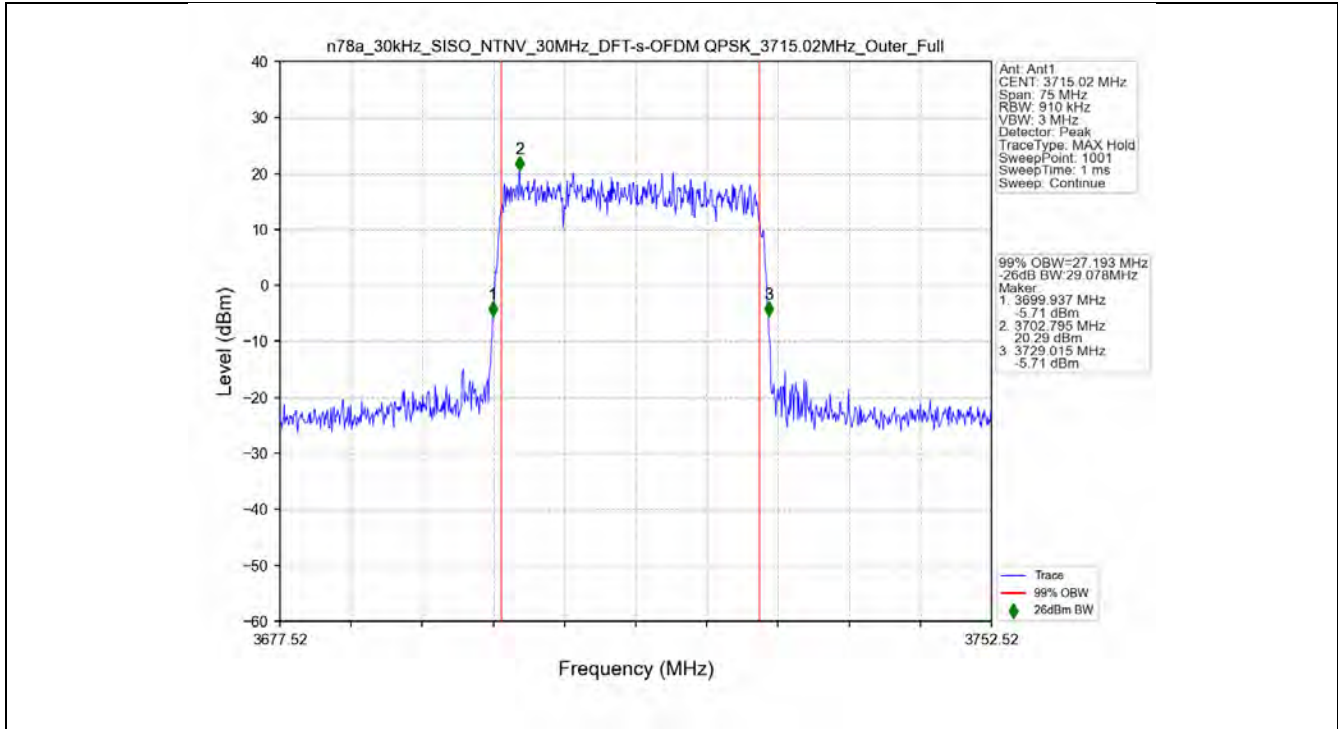


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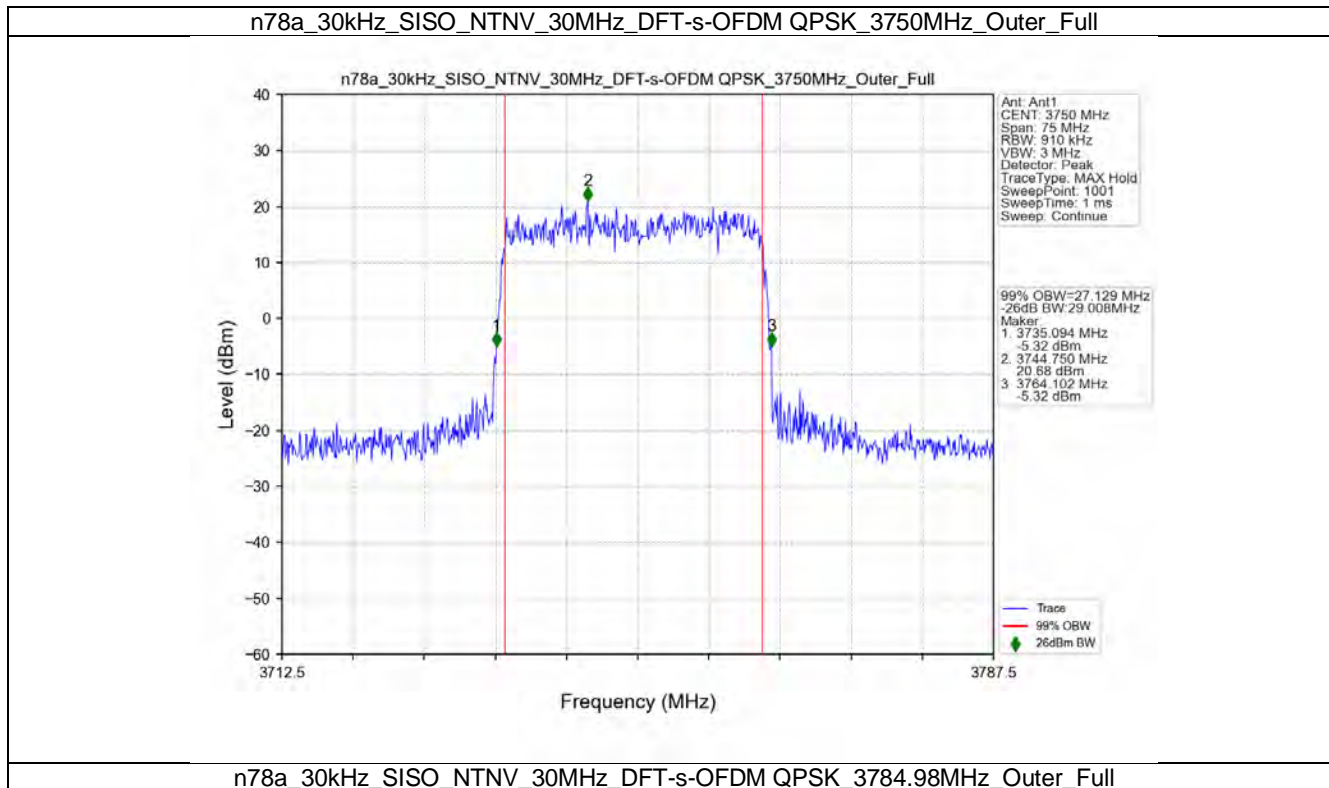
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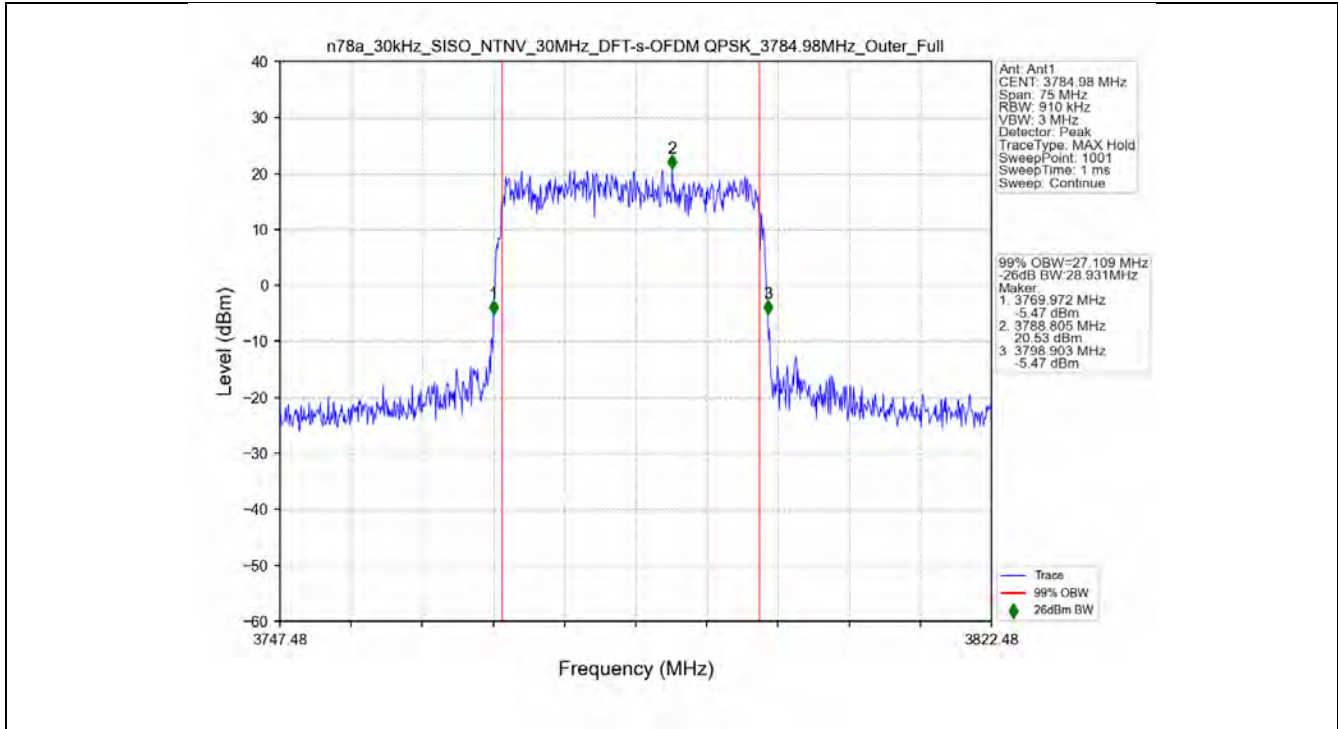


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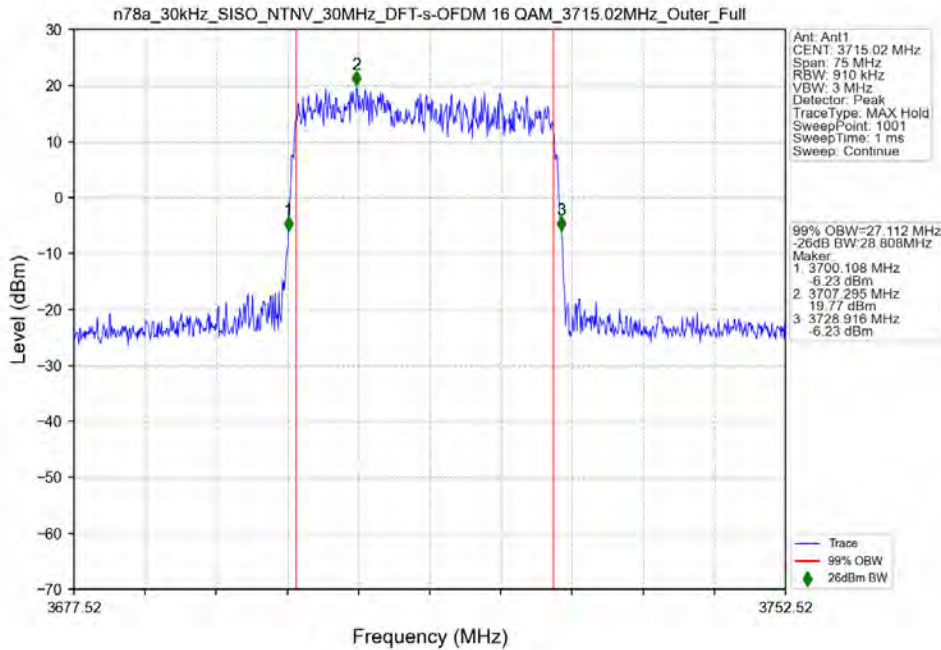
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n78a_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM 16 QAM_3715.02MHz_Outer_Full



n78a_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM 16 QAM_3750MHz_Outer_Full



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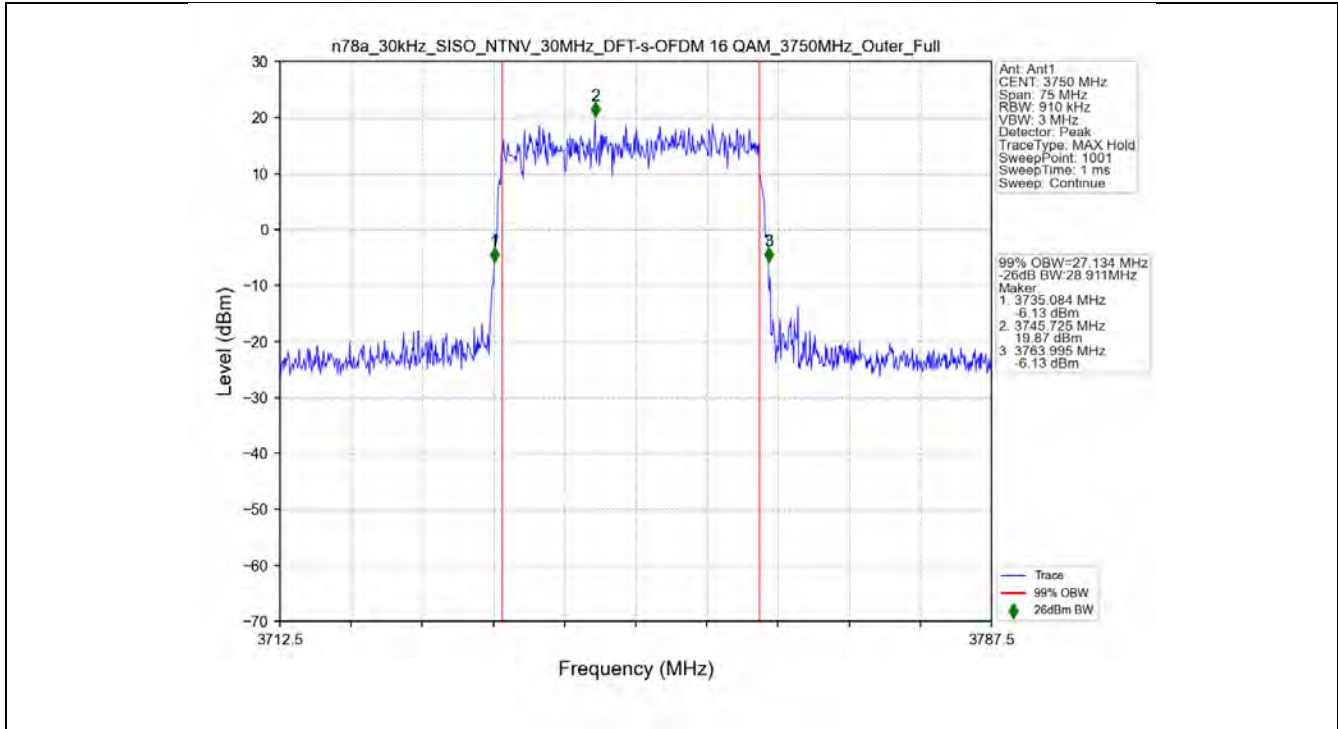


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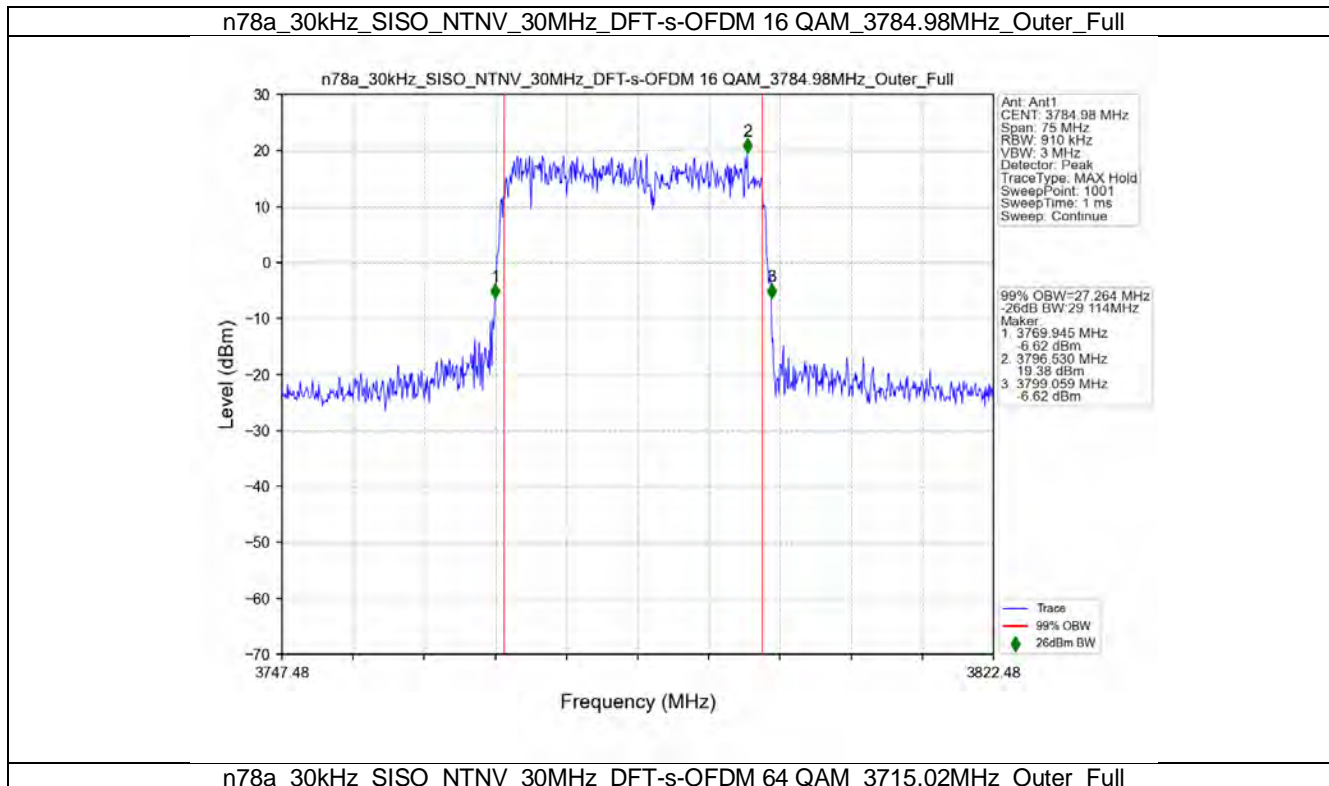
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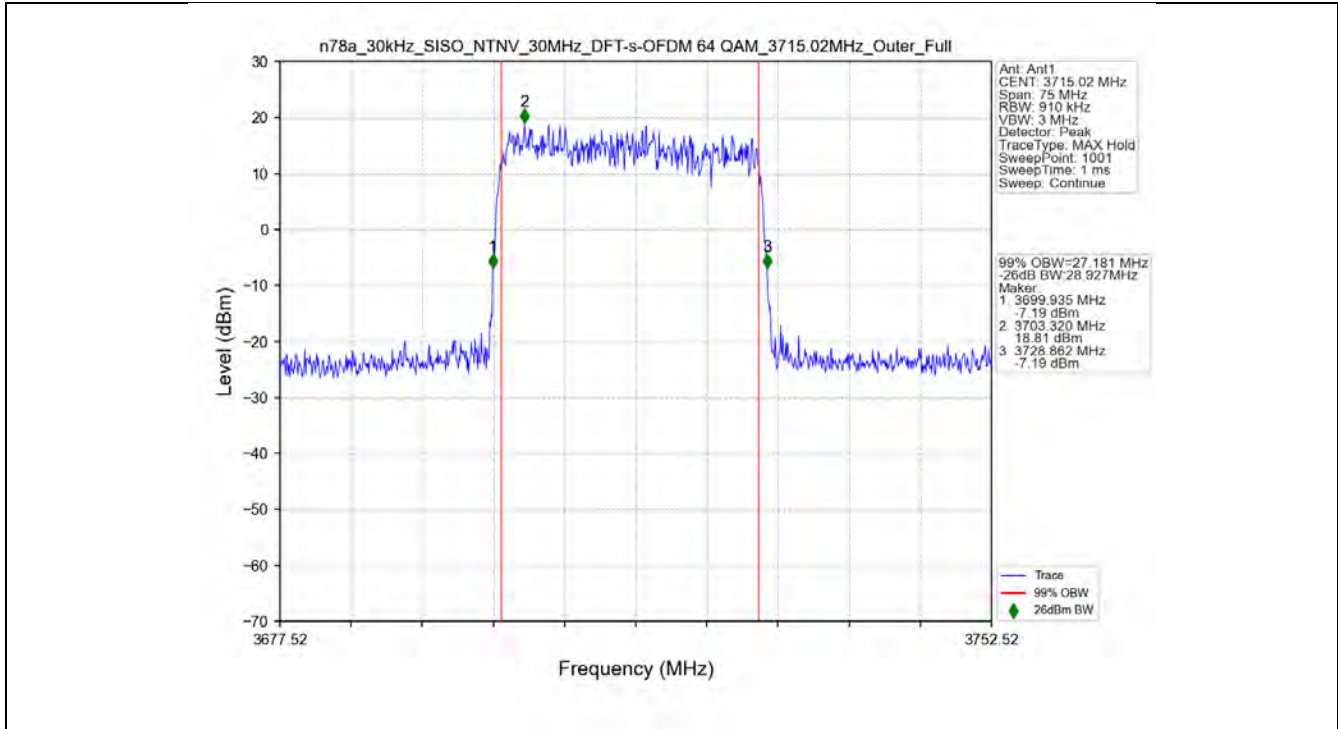


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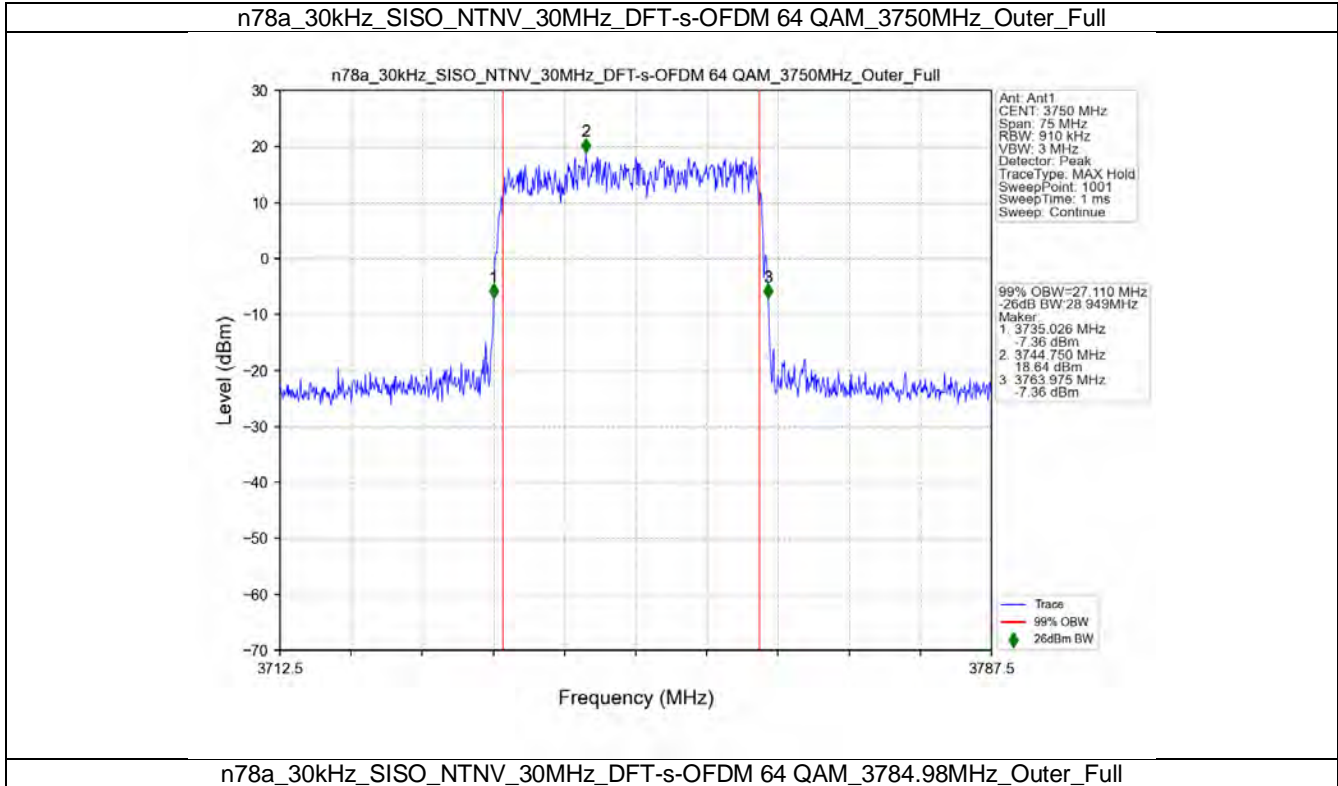


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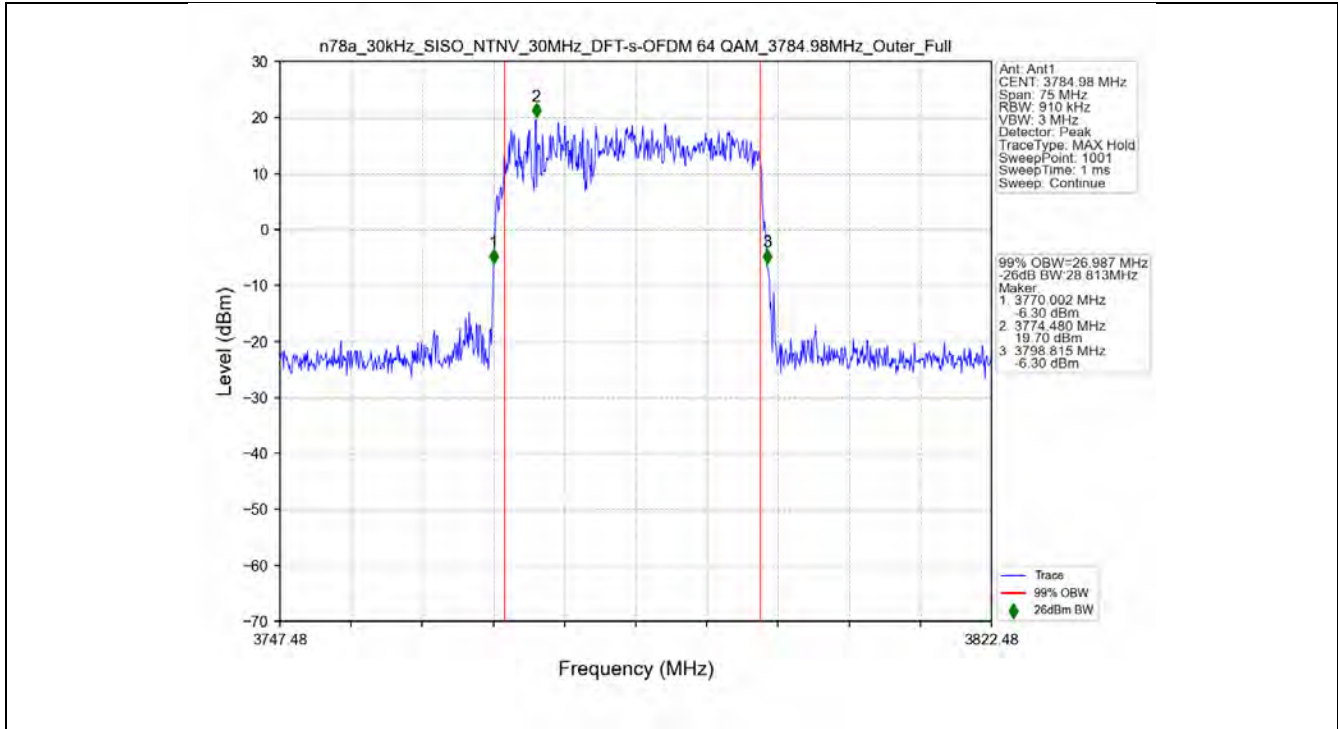


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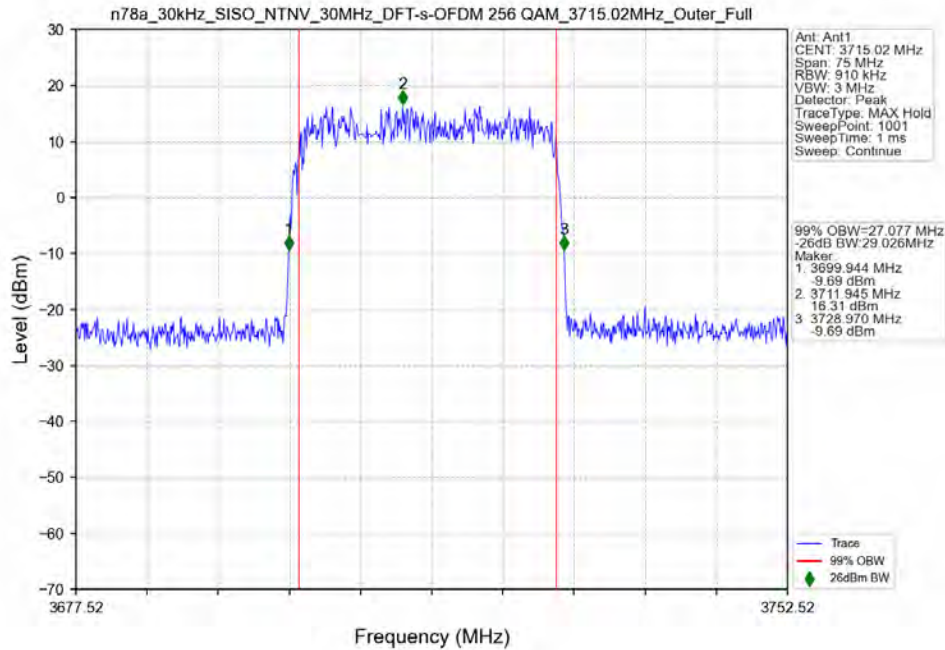
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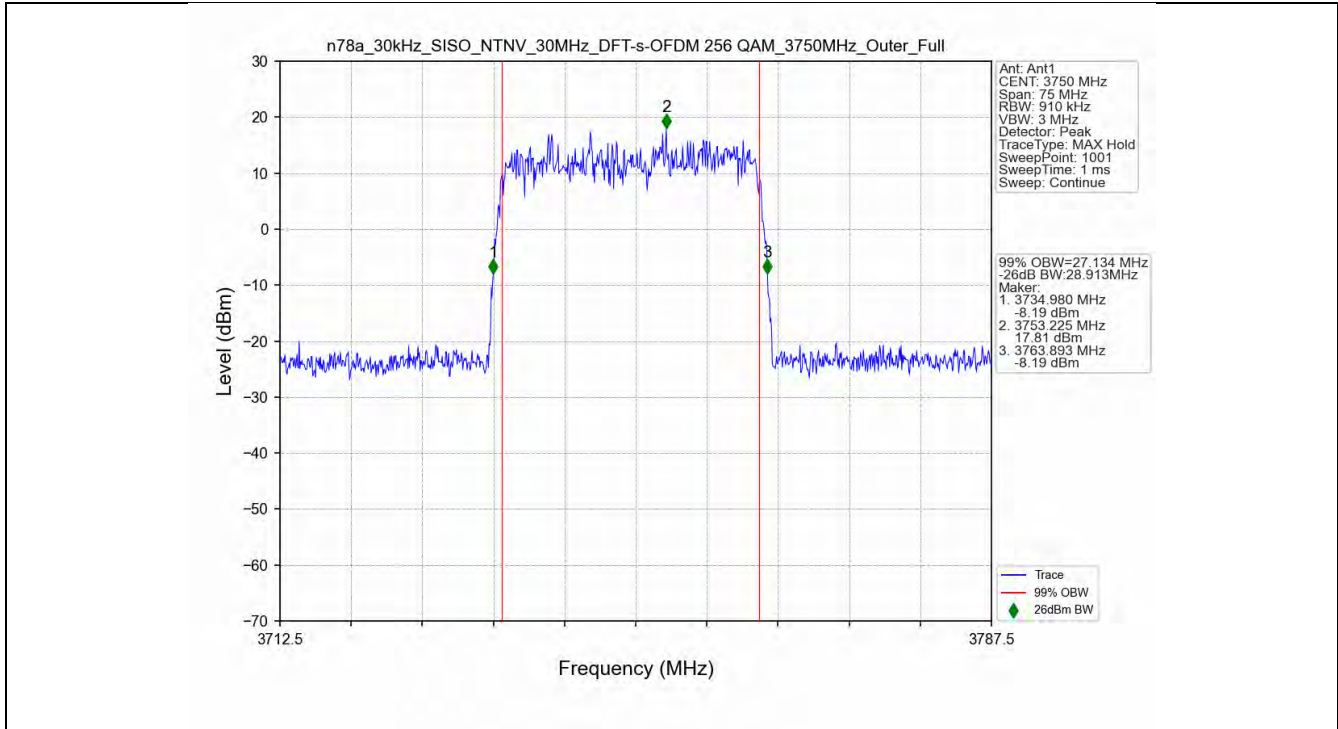


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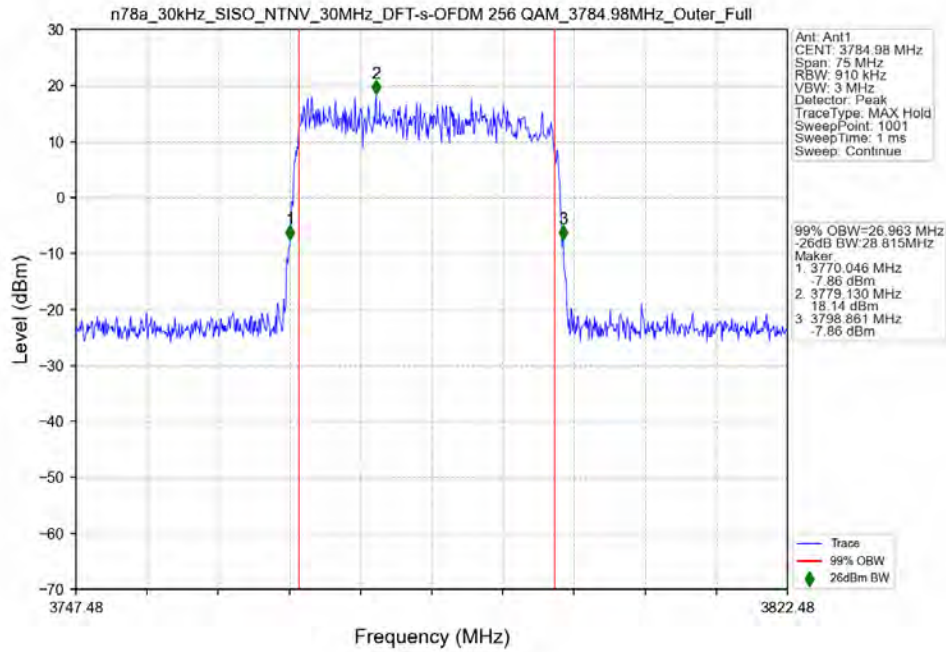
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n78a_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM 256 QAM_3784.98MHz_Outer_Full



n78a_30kHz_SISO_NTNV_30MHz_CP-OFDM QPSK_3715.02MHz_Outer_Full



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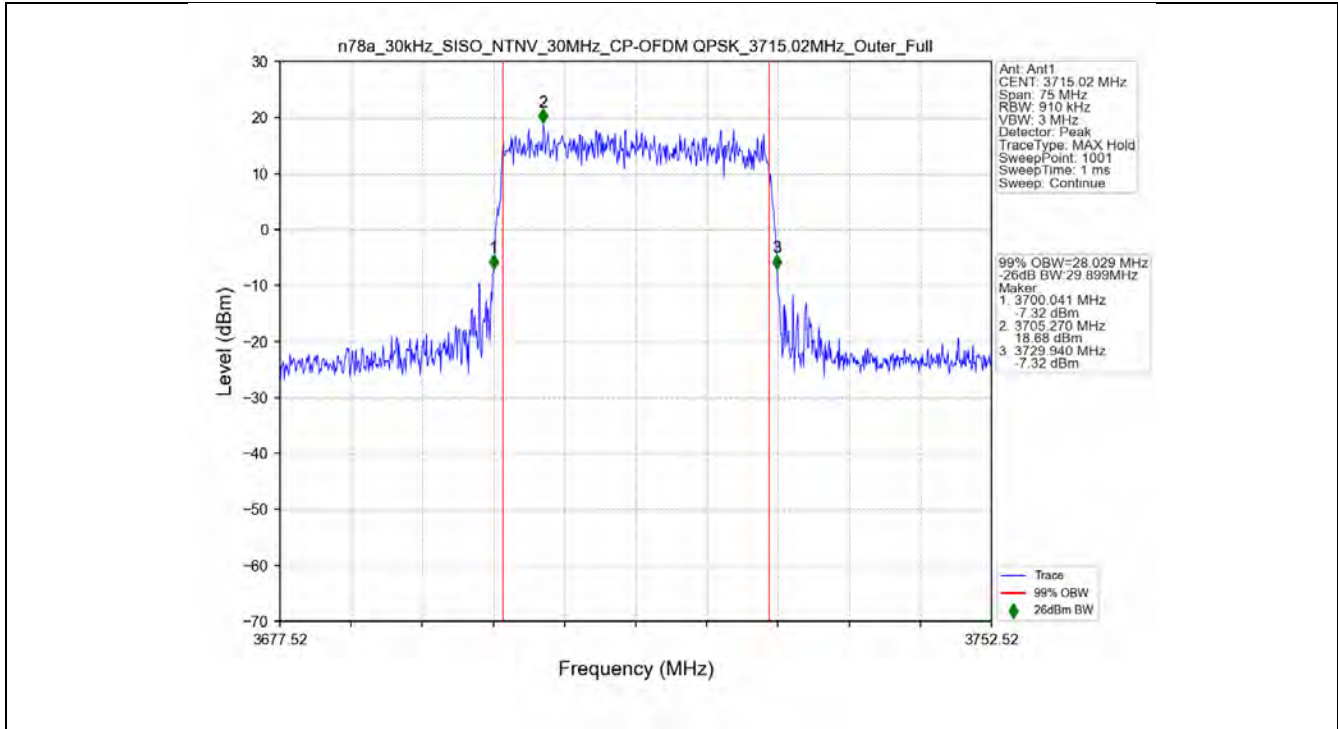


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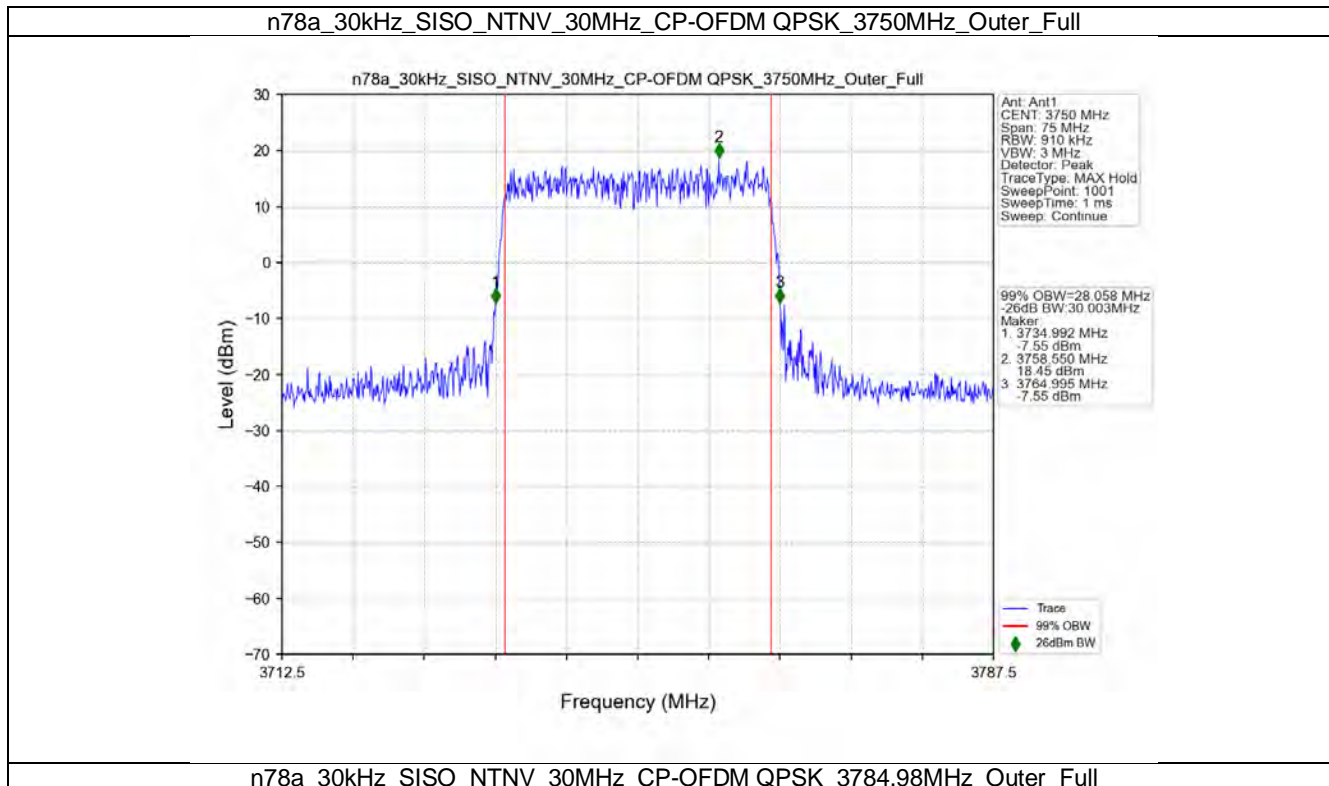
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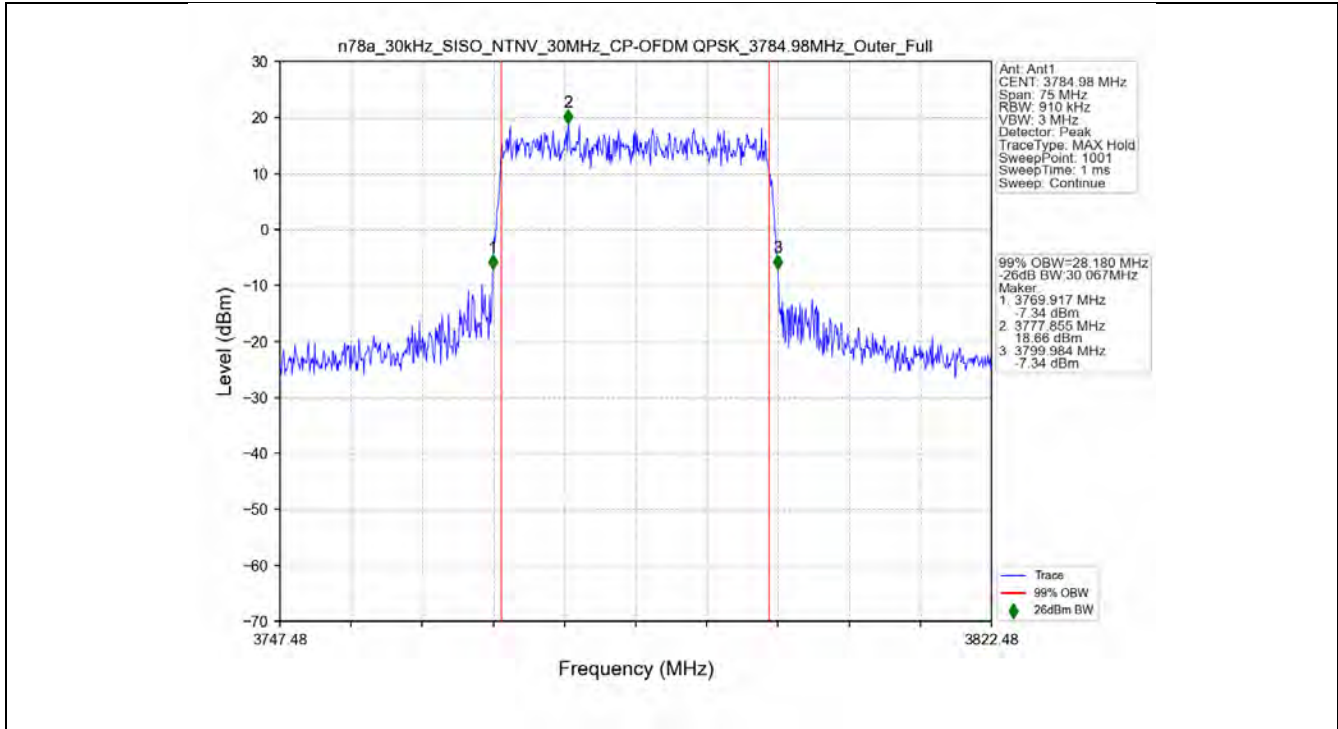


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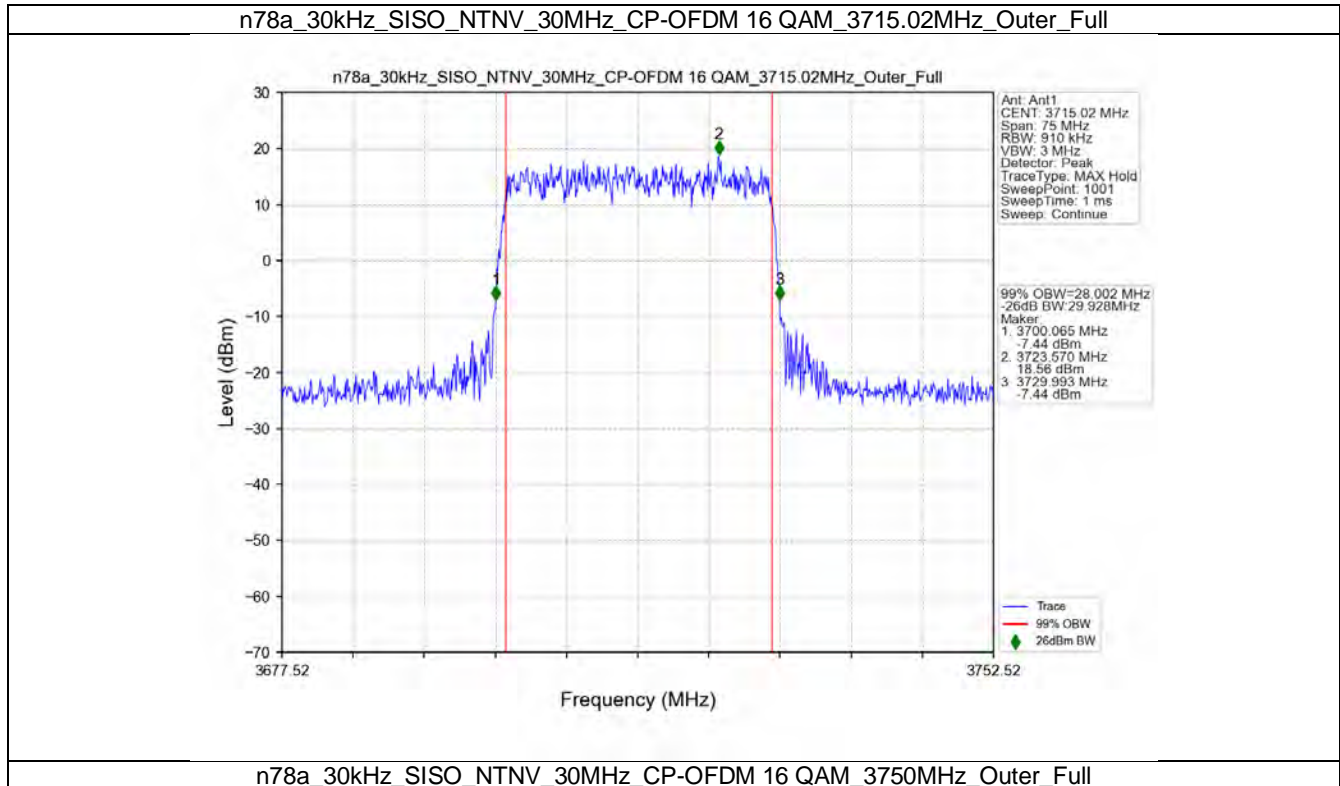


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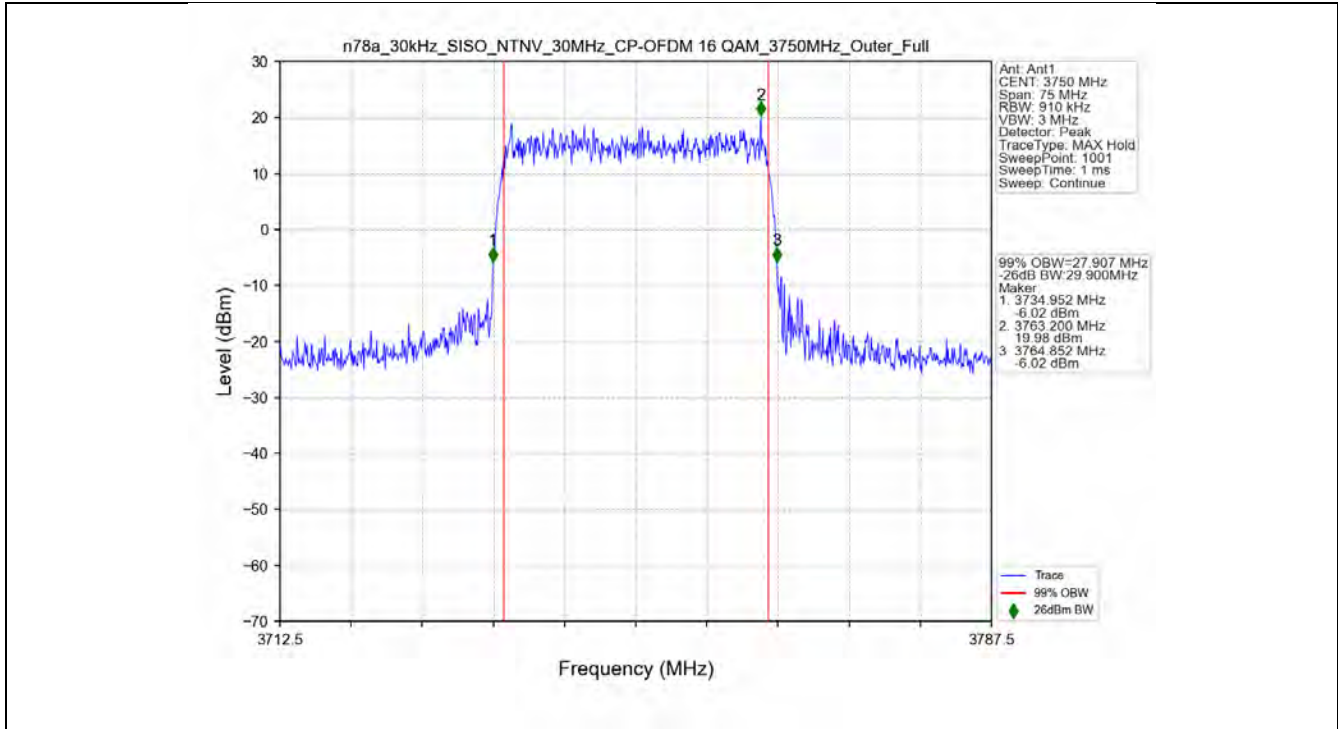


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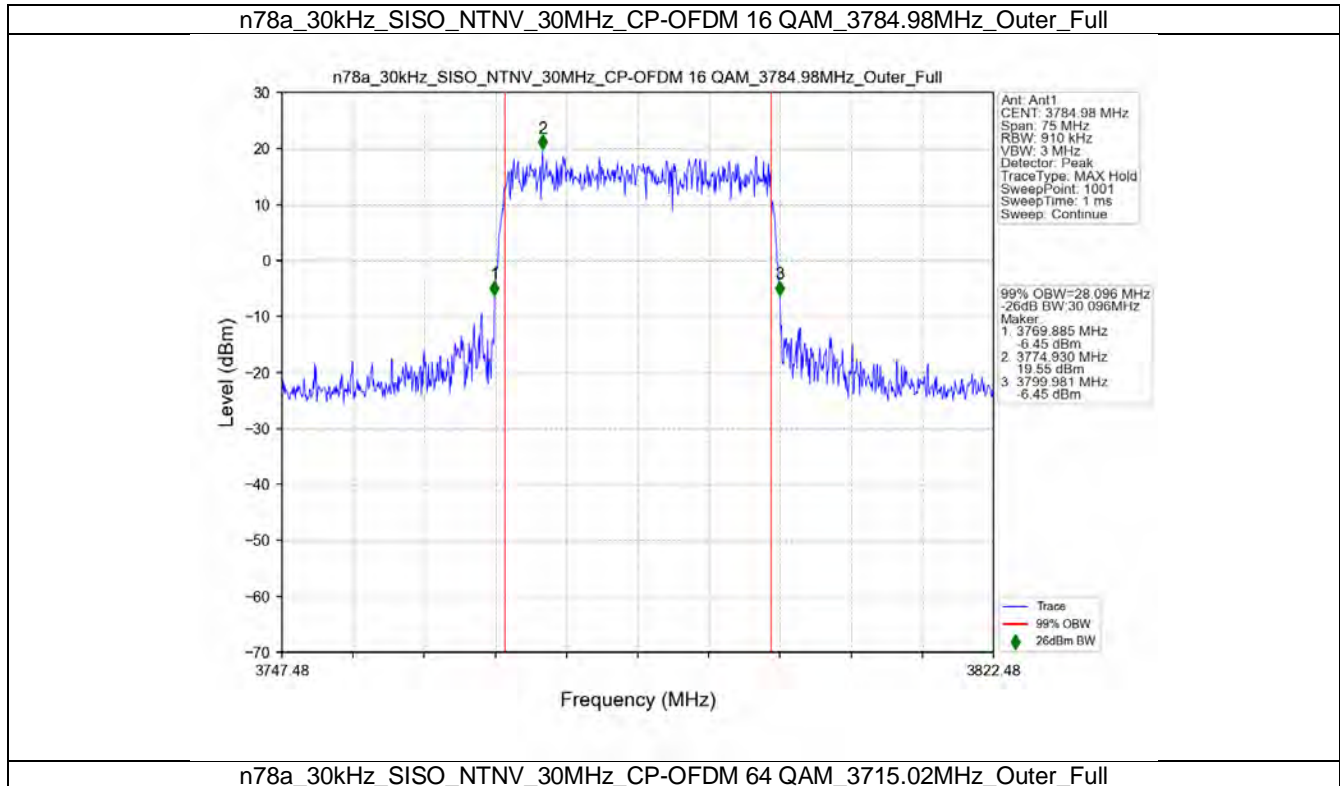


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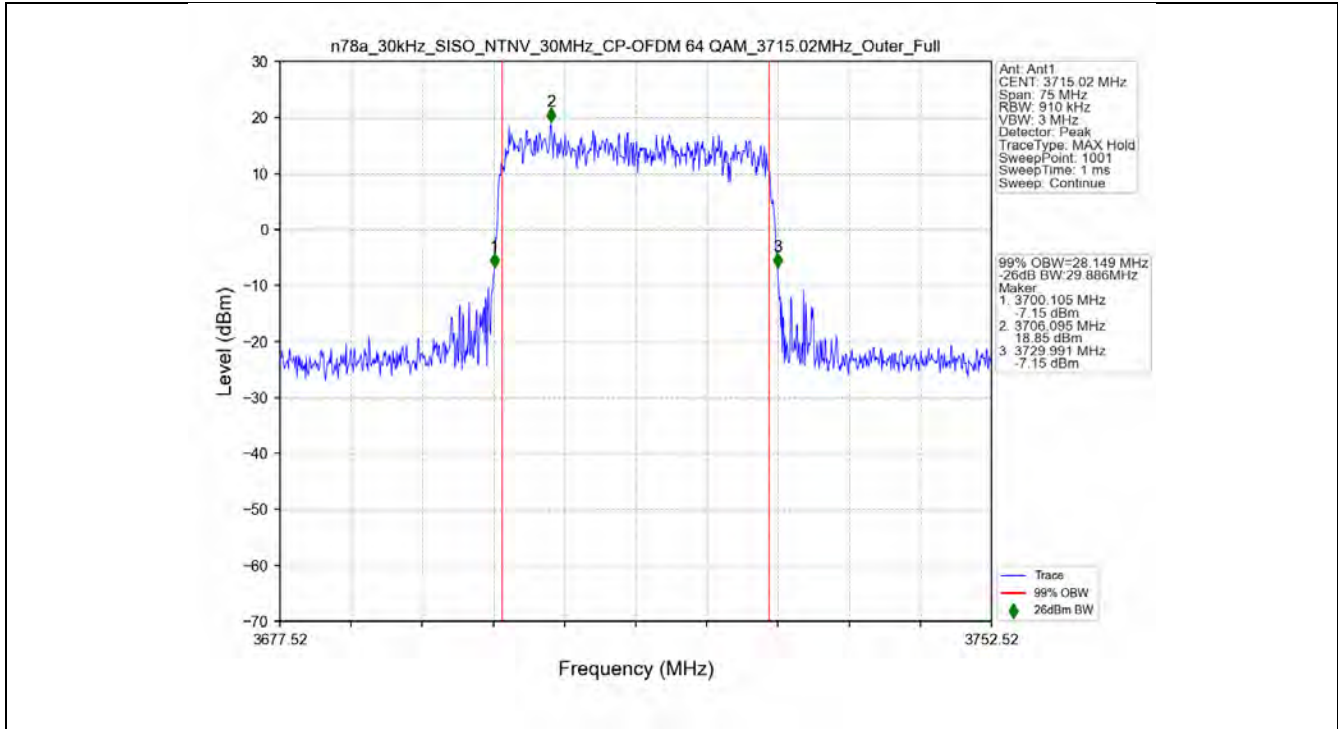


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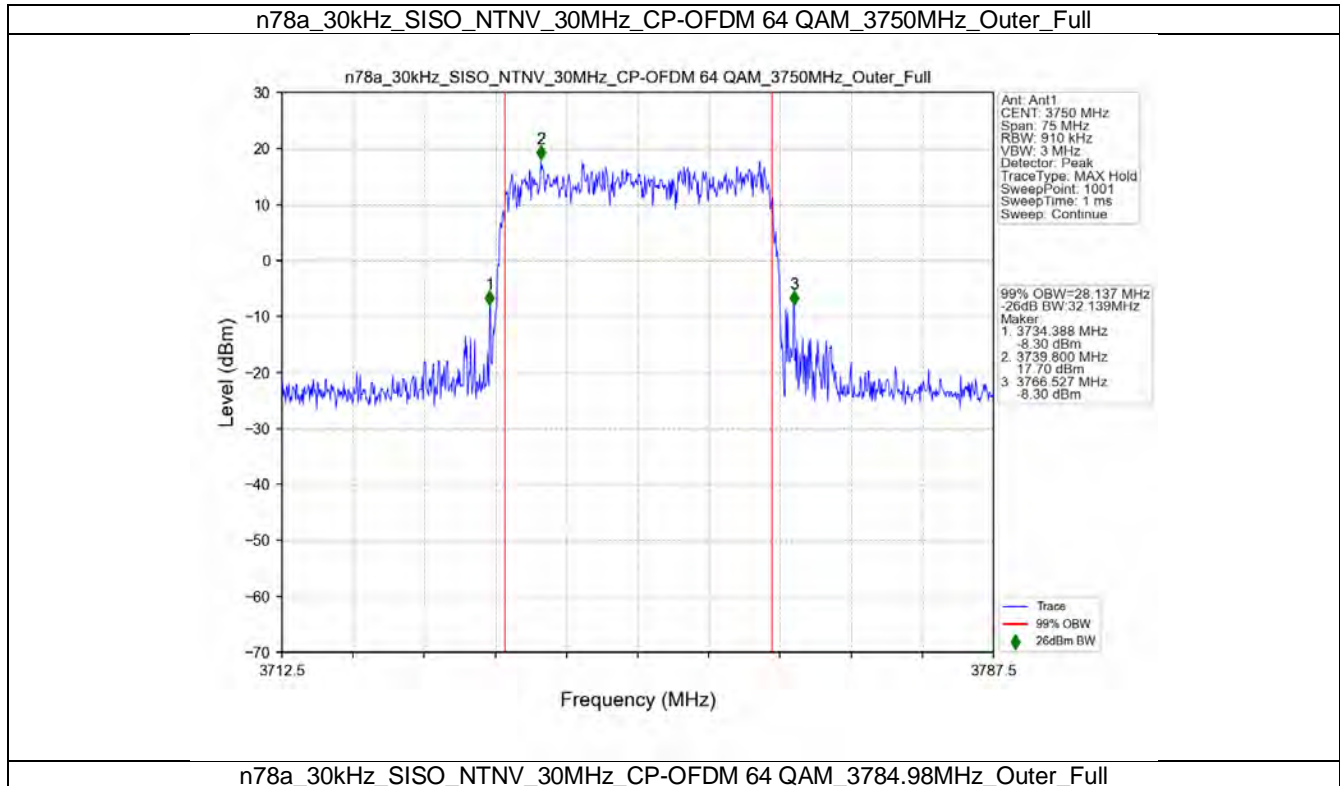


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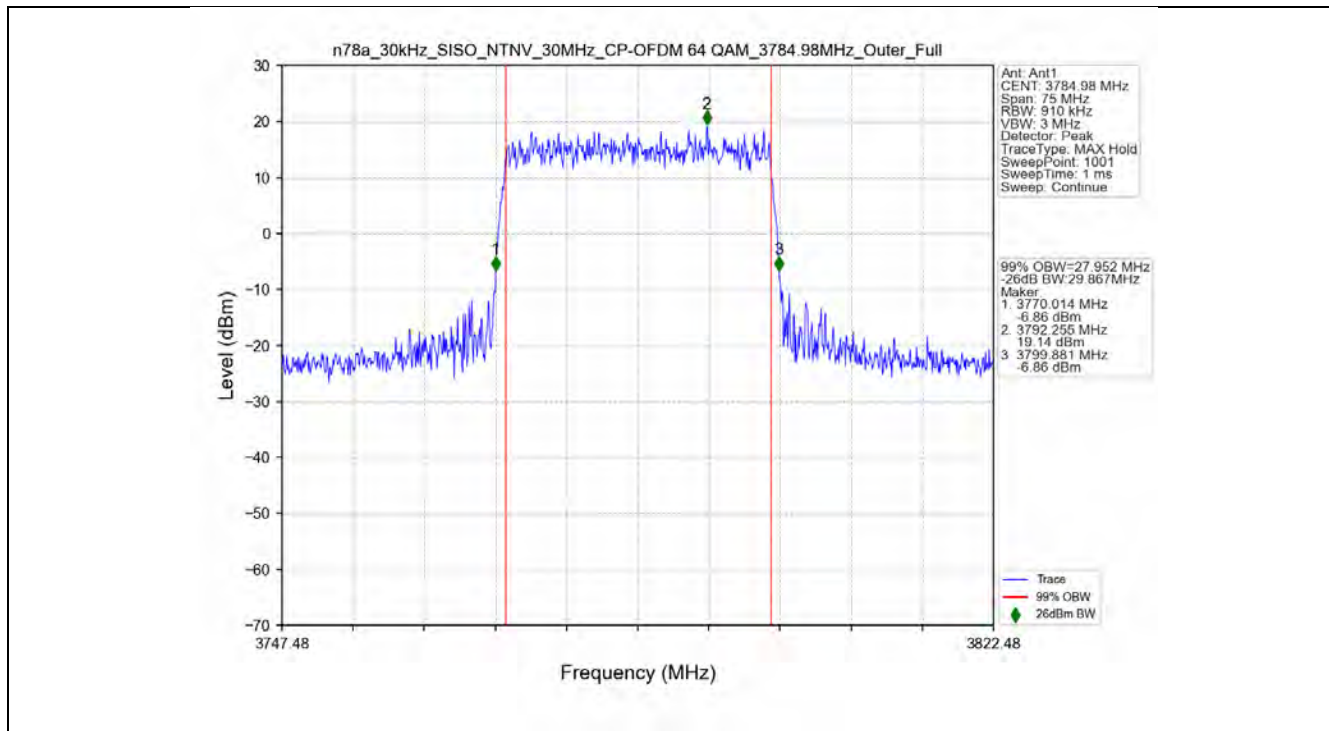
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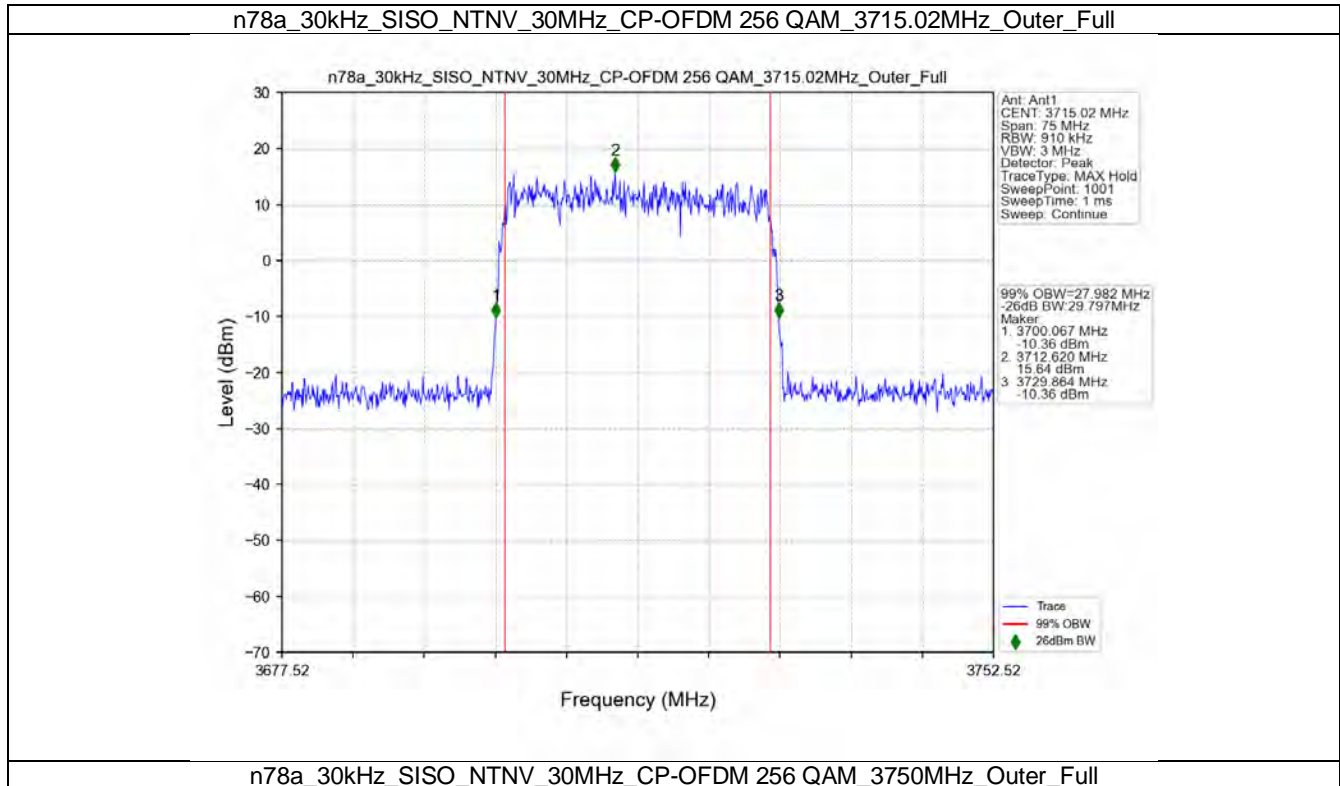


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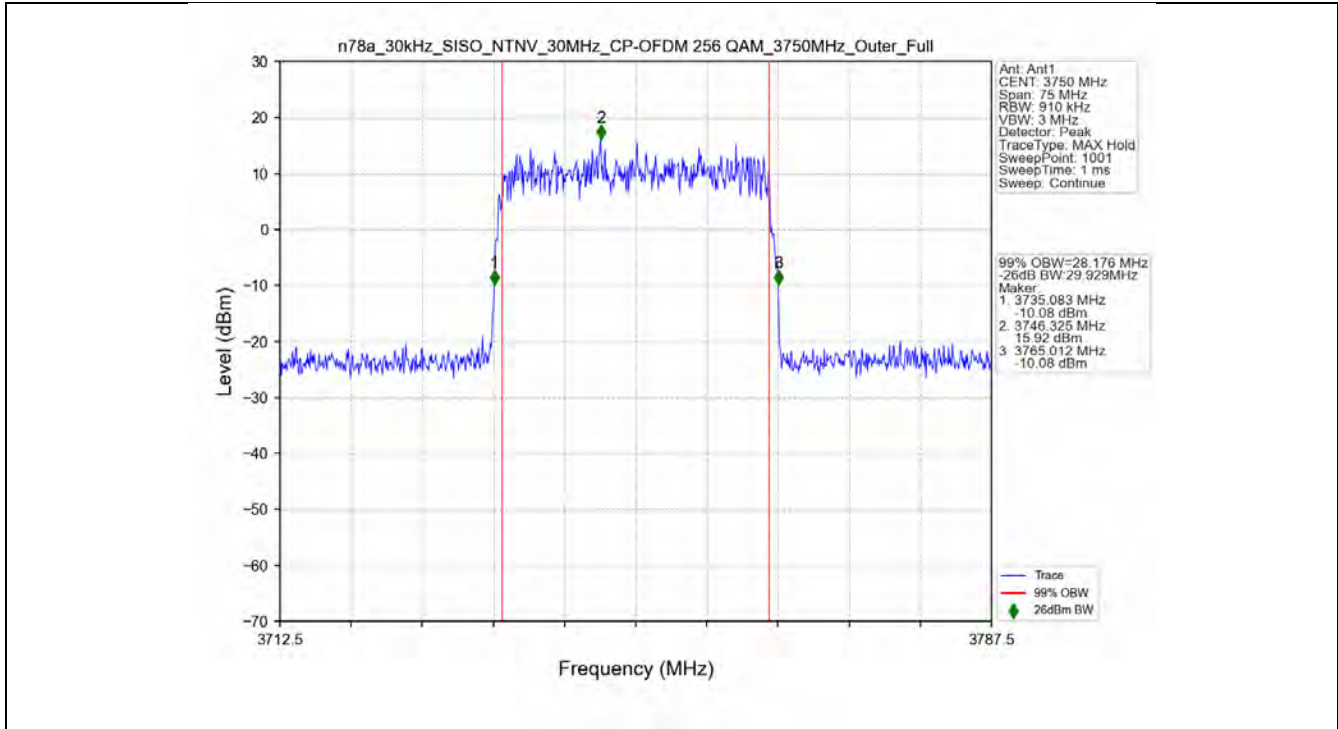


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3.3 30k_SISO_40MHz_NTNV

3.3.1 Test Result

| 5G NR n78a SCS=30kHz SISO 40MHz NNTV | | | | | | |
|--------------------------------------|-----------------|---------------|---------------------|----------------------|-------------|---------|
| Modulation | Frequency (MHz) | RB Allocation | 99% Bandwidth (MHz) | 26dB Bandwidth (MHz) | Limit (MHz) | Verdict |
| DFT-s-OFDM PI/2 BPSK | 3720 | Outer_Full | 36.10 | 38.50 | / | Pass |
| | 3750 | Outer_Full | 36.02 | 38.58 | / | Pass |
| | 3780 | Outer_Full | 35.88 | 38.46 | / | Pass |
| DFT-s-OFDM QPSK | 3720 | Outer_Full | 36.18 | 38.65 | / | Pass |
| | 3750 | Outer_Full | 36.03 | 38.61 | / | Pass |
| | 3780 | Outer_Full | 35.75 | 38.47 | / | Pass |
| DFT-s-OFDM 16 QAM | 3720 | Outer_Full | 36.06 | 38.56 | / | Pass |
| | 3750 | Outer_Full | 36.18 | 38.31 | / | Pass |
| | 3780 | Outer_Full | 35.96 | 38.10 | / | Pass |
| DFT-s-OFDM 64 QAM | 3720 | Outer_Full | 36.08 | 38.38 | / | Pass |
| | 3750 | Outer_Full | 36.02 | 38.15 | / | Pass |
| | 3780 | Outer_Full | 35.84 | 38.05 | / | Pass |
| DFT-s-OFDM 256 QAM | 3720 | Outer_Full | 36.07 | 38.55 | / | Pass |
| | 3750 | Outer_Full | 36.16 | 38.49 | / | Pass |
| | 3780 | Outer_Full | 36.05 | 38.39 | / | Pass |
| CP-OFDM QPSK | 3720 | Outer_Full | 37.98 | 40.56 | / | Pass |
| | 3750 | Outer_Full | 38.03 | 40.78 | / | Pass |
| | 3780 | Outer_Full | 38.06 | 40.61 | / | Pass |
| CP-OFDM 16 QAM | 3720 | Outer_Full | 38.15 | 40.34 | / | Pass |
| | 3750 | Outer_Full | 38.22 | 40.73 | / | Pass |
| | 3780 | Outer_Full | 38.33 | 40.62 | / | Pass |
| CP-OFDM 64 QAM | 3720 | Outer_Full | 38.20 | 40.70 | / | Pass |
| | 3750 | Outer_Full | 37.99 | 40.58 | / | Pass |
| | 3780 | Outer_Full | 38.04 | 40.68 | / | Pass |
| CP-OFDM 256 QAM | 3720 | Outer_Full | 38.14 | 40.53 | / | Pass |
| | 3750 | Outer_Full | 38.28 | 40.50 | / | Pass |
| | 3780 | Outer_Full | 38.15 | 40.61 | / | Pass |



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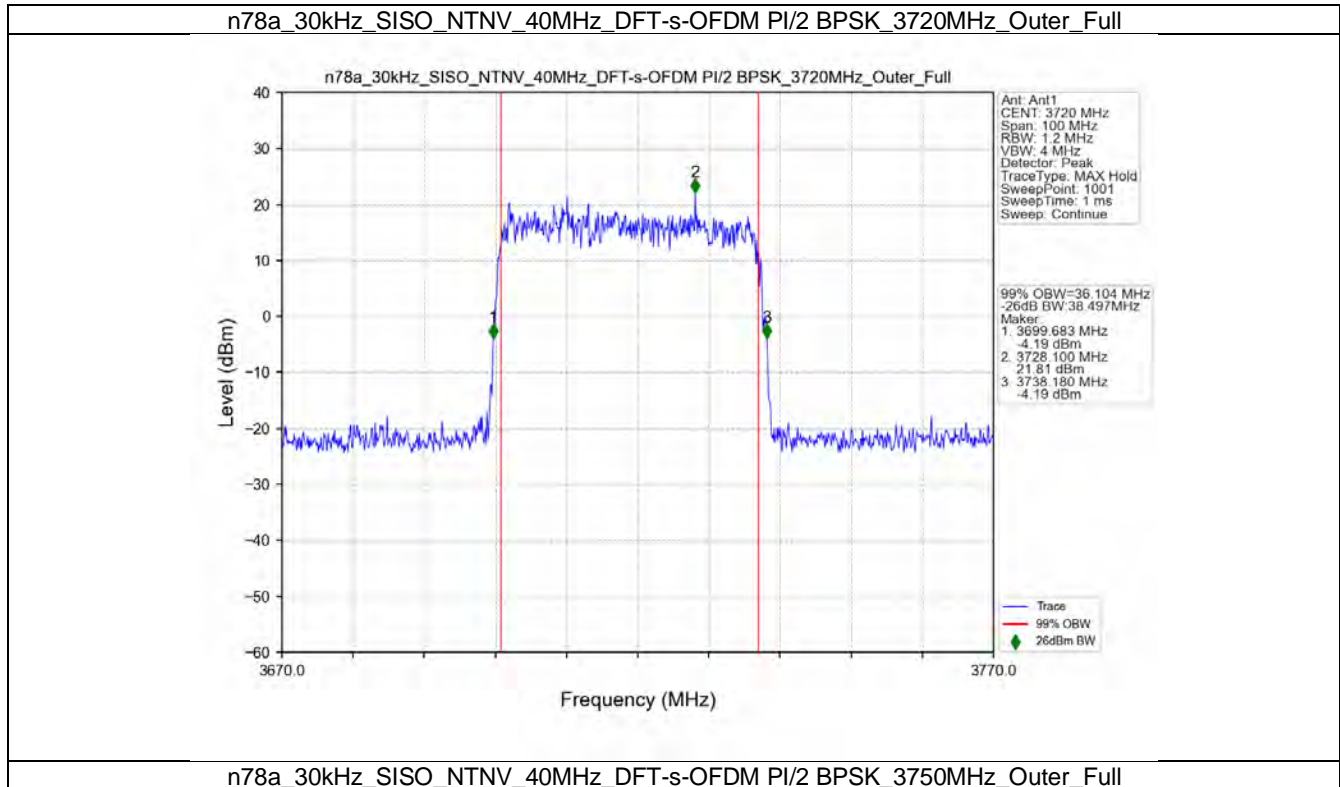
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3.3.2 Test Graph



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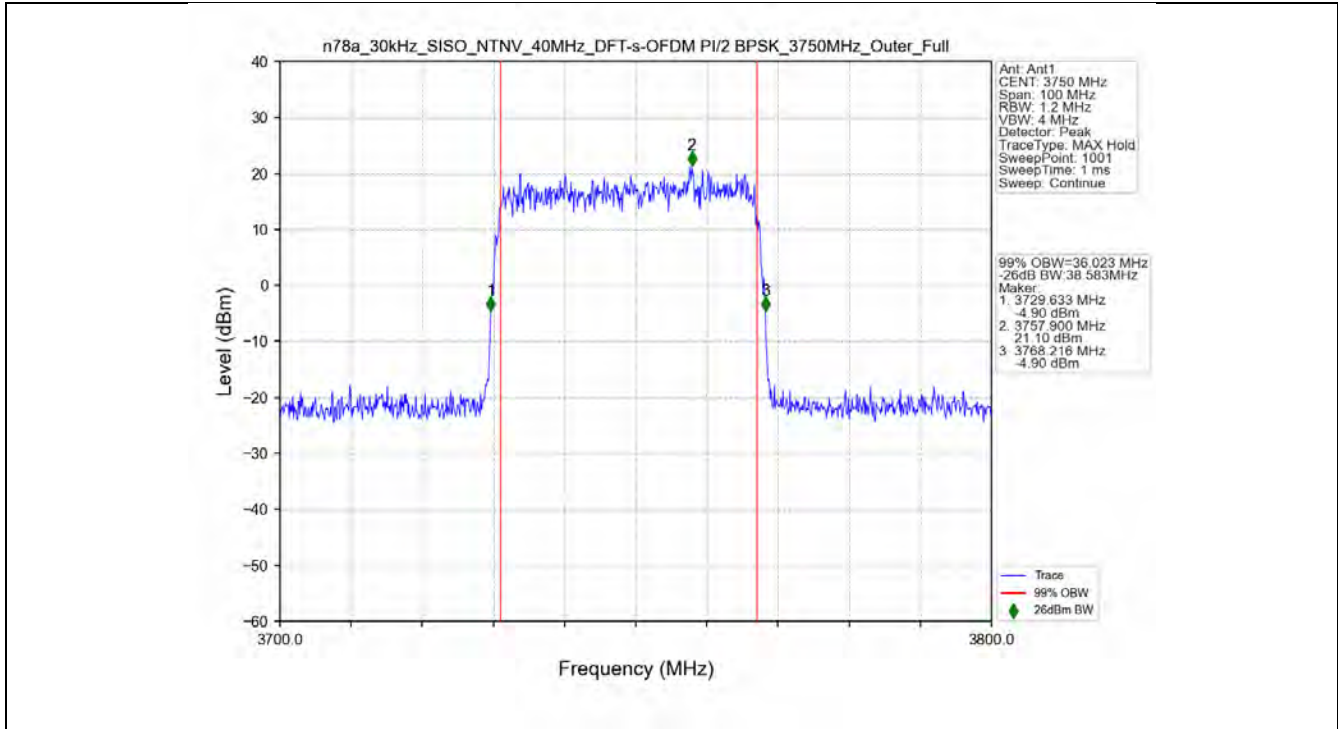


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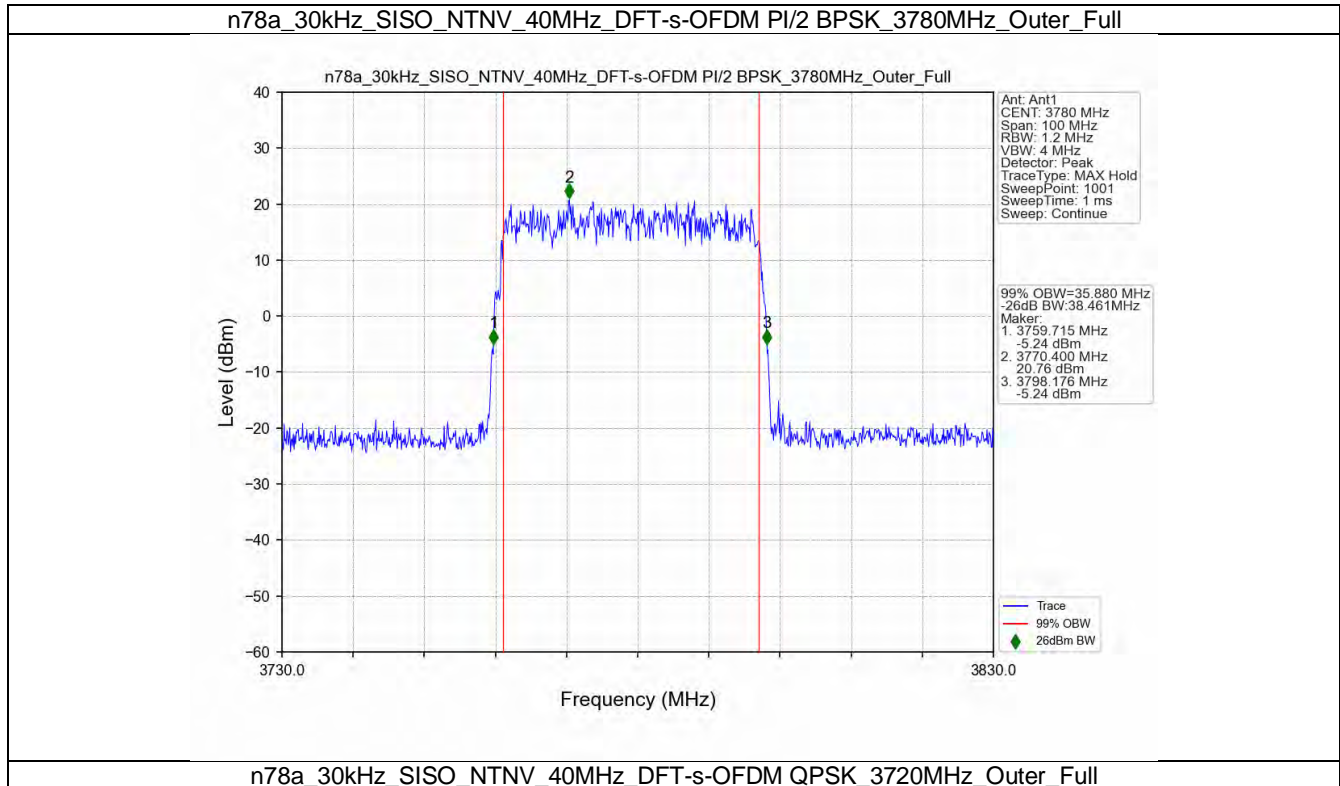


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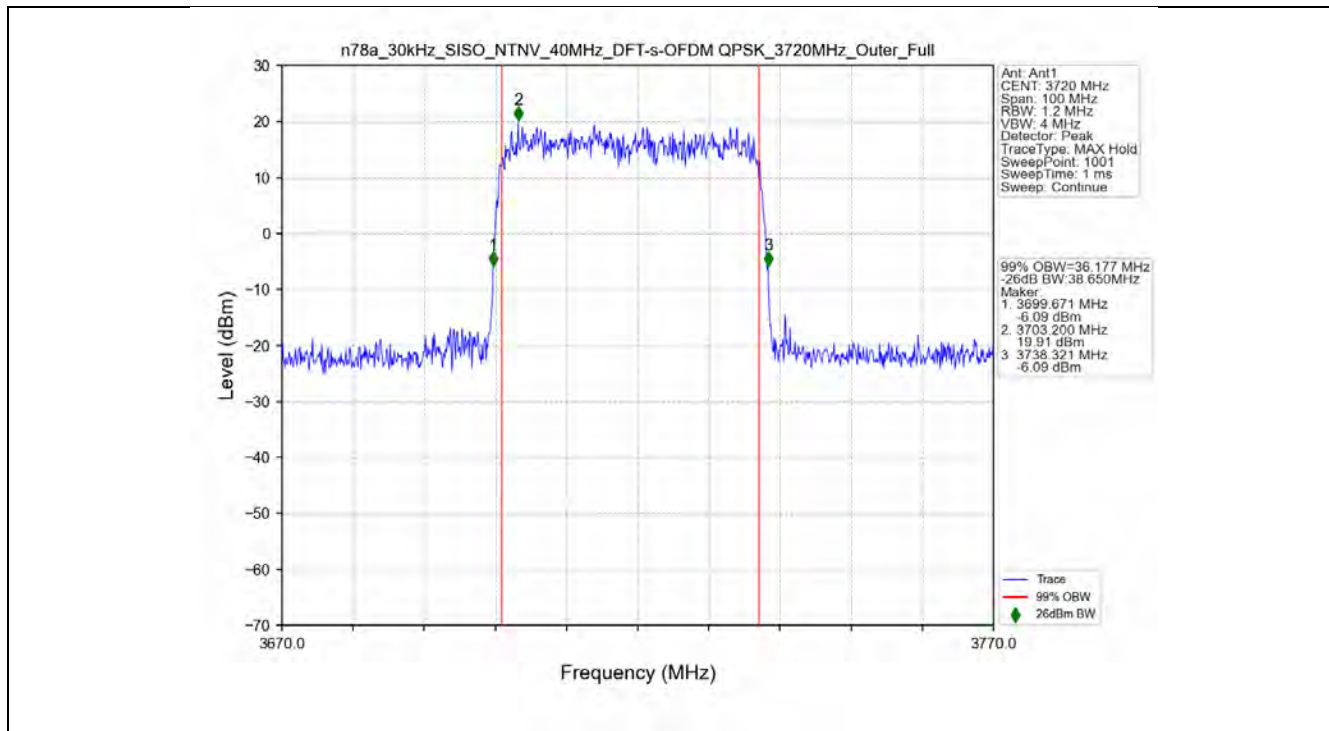
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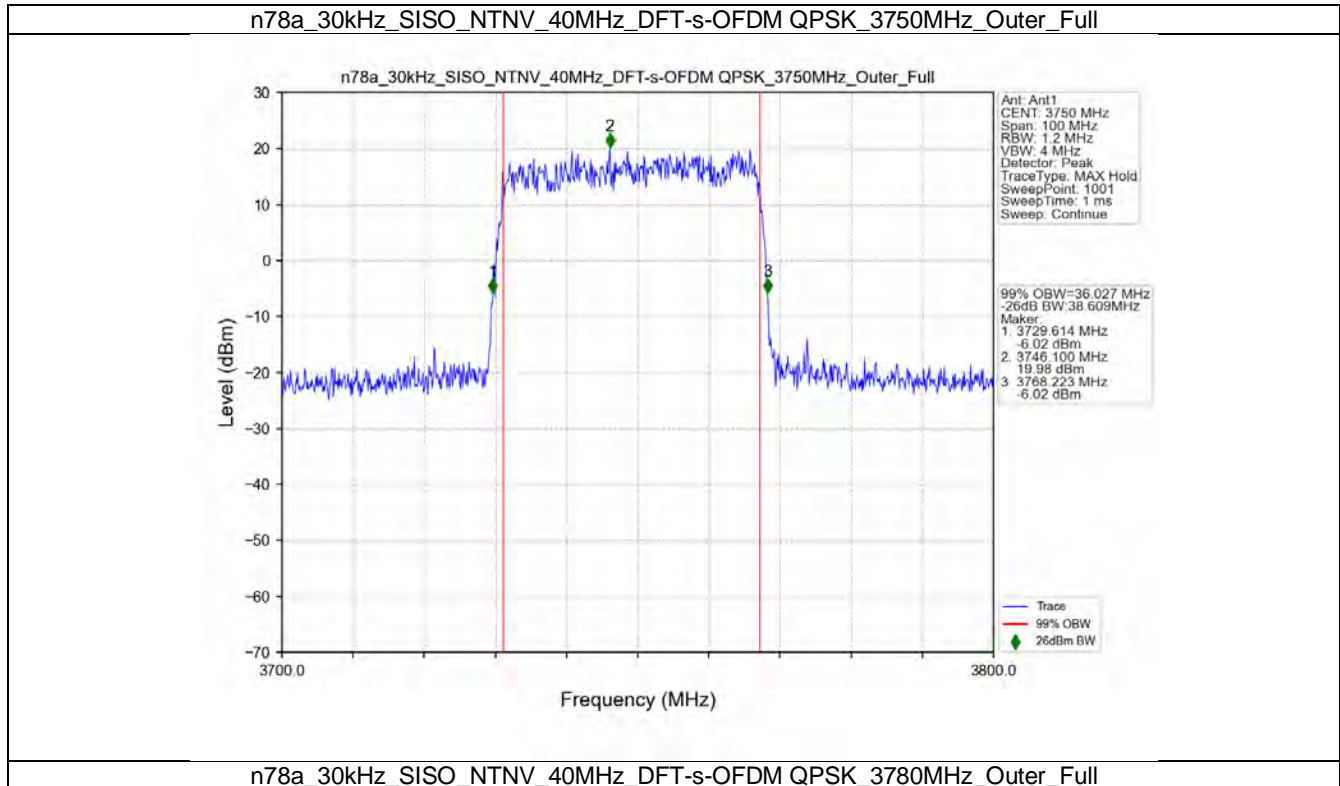


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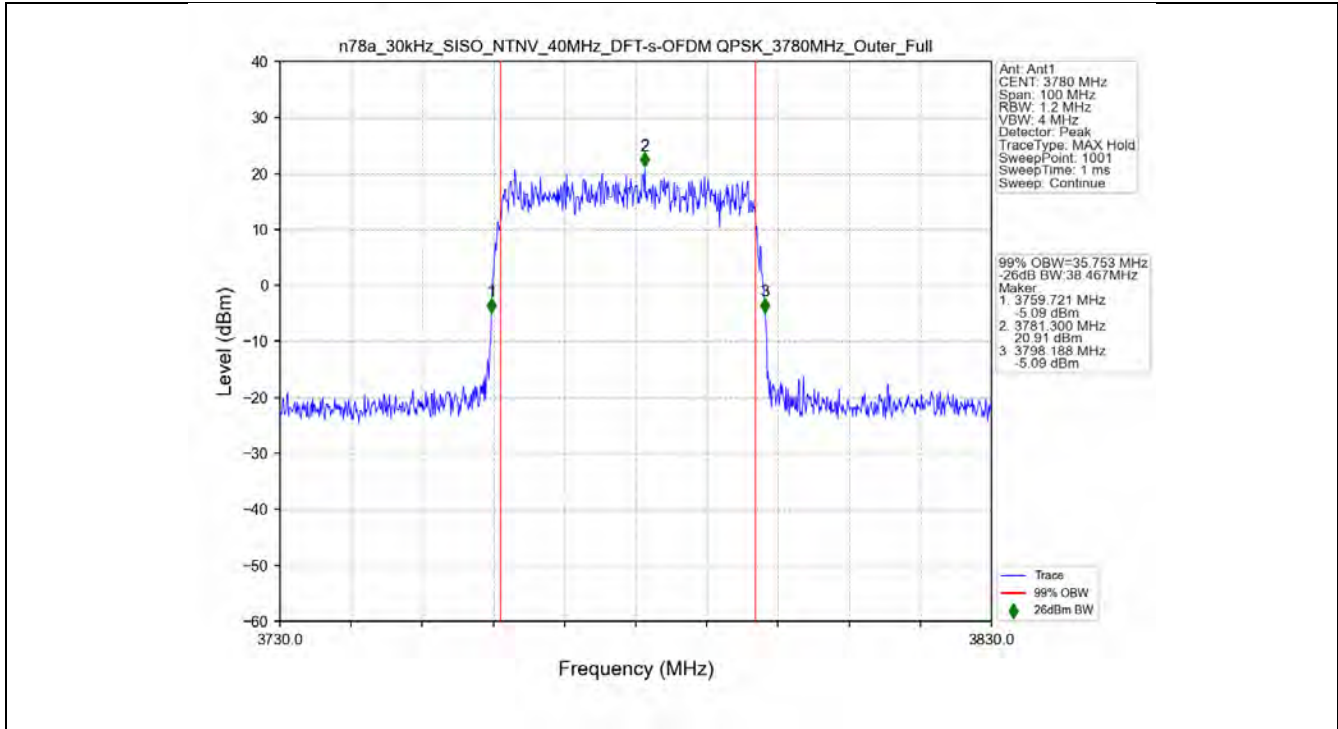


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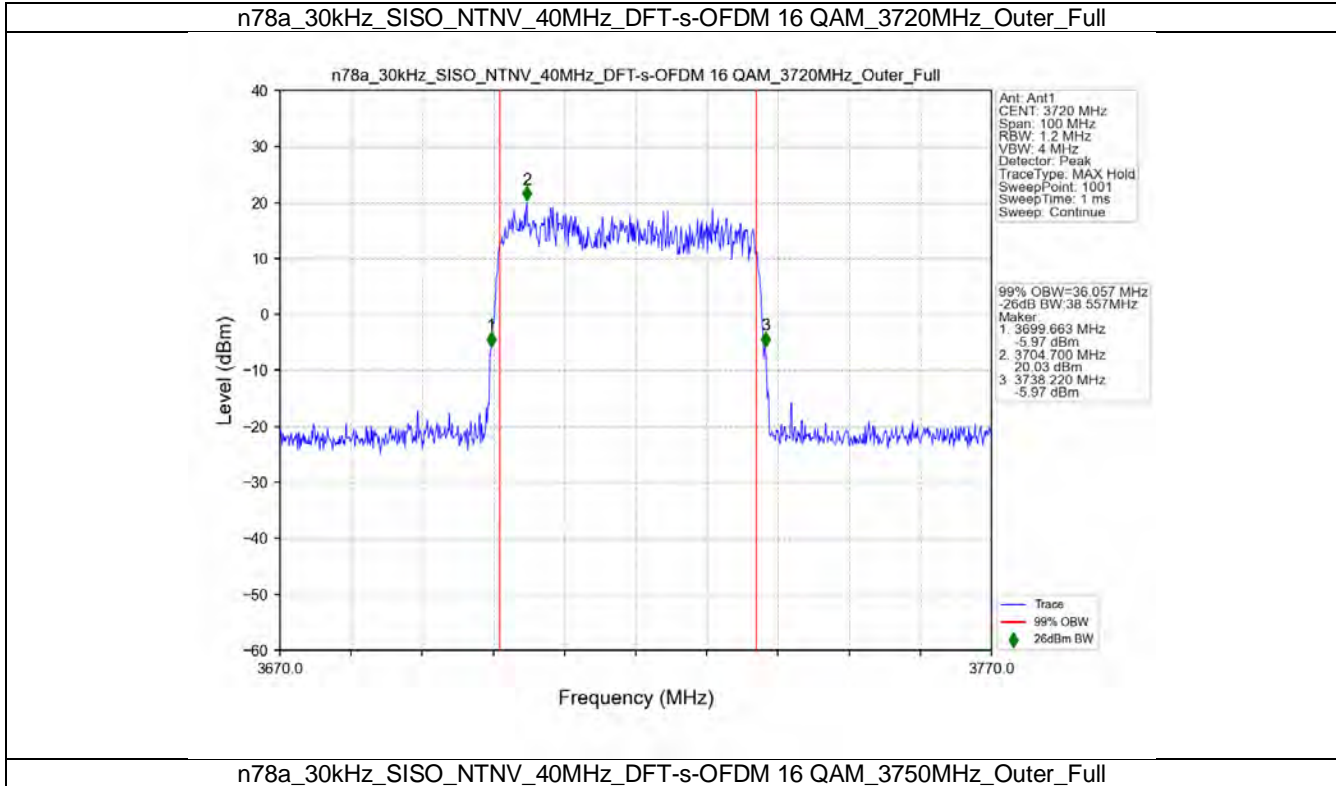


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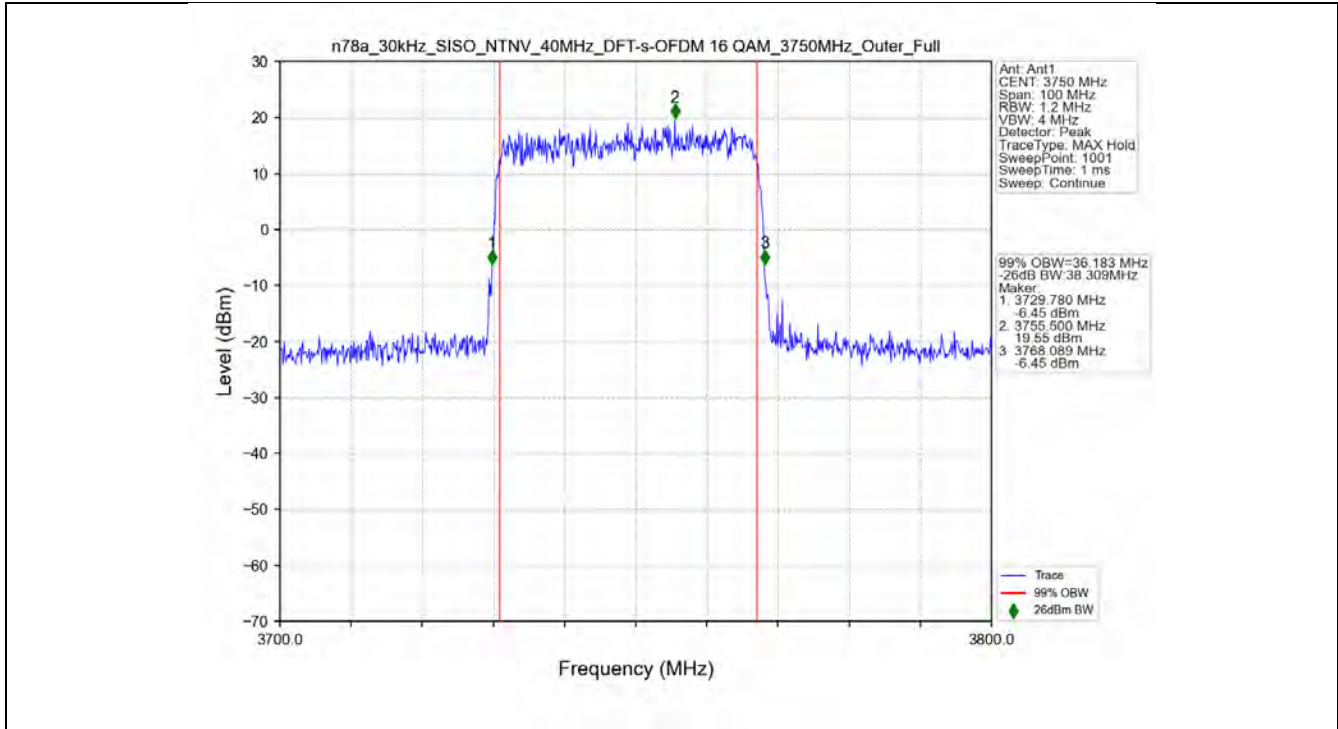


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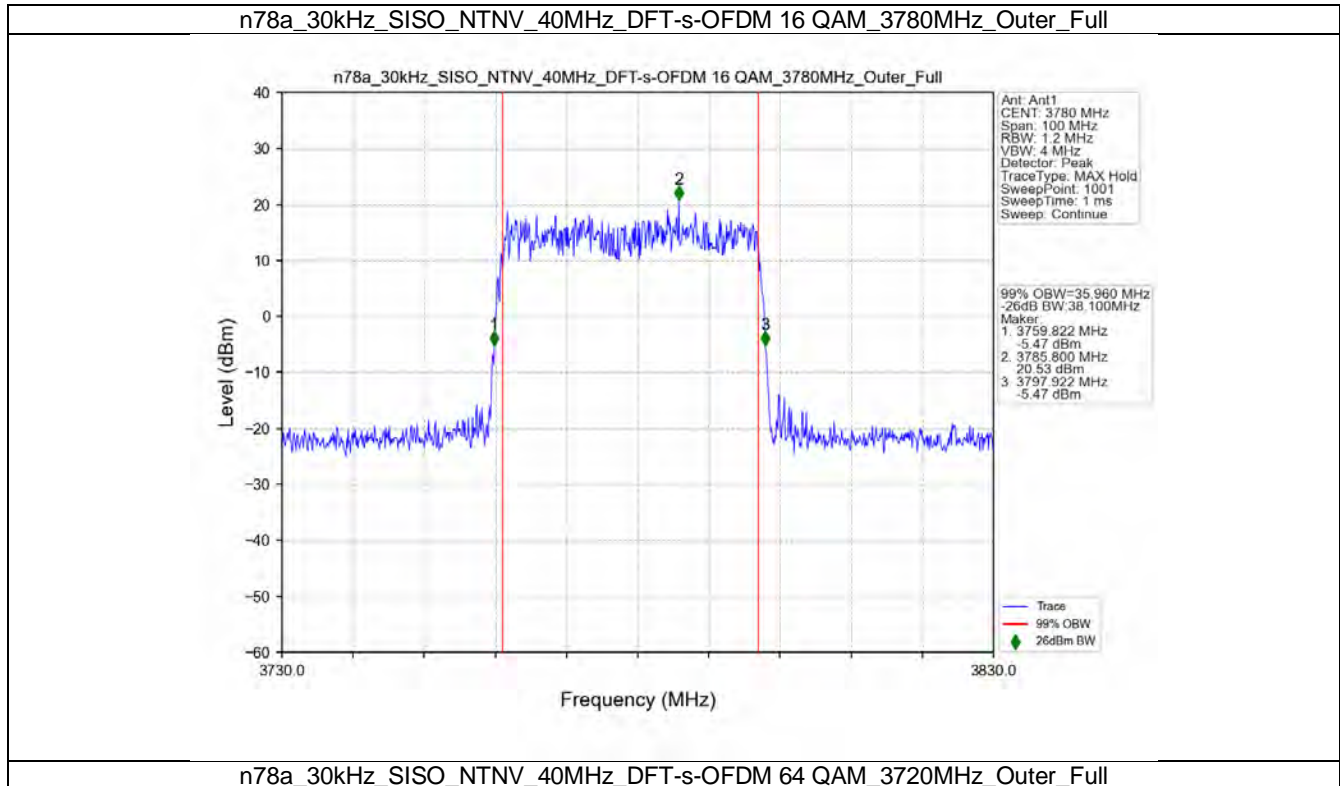


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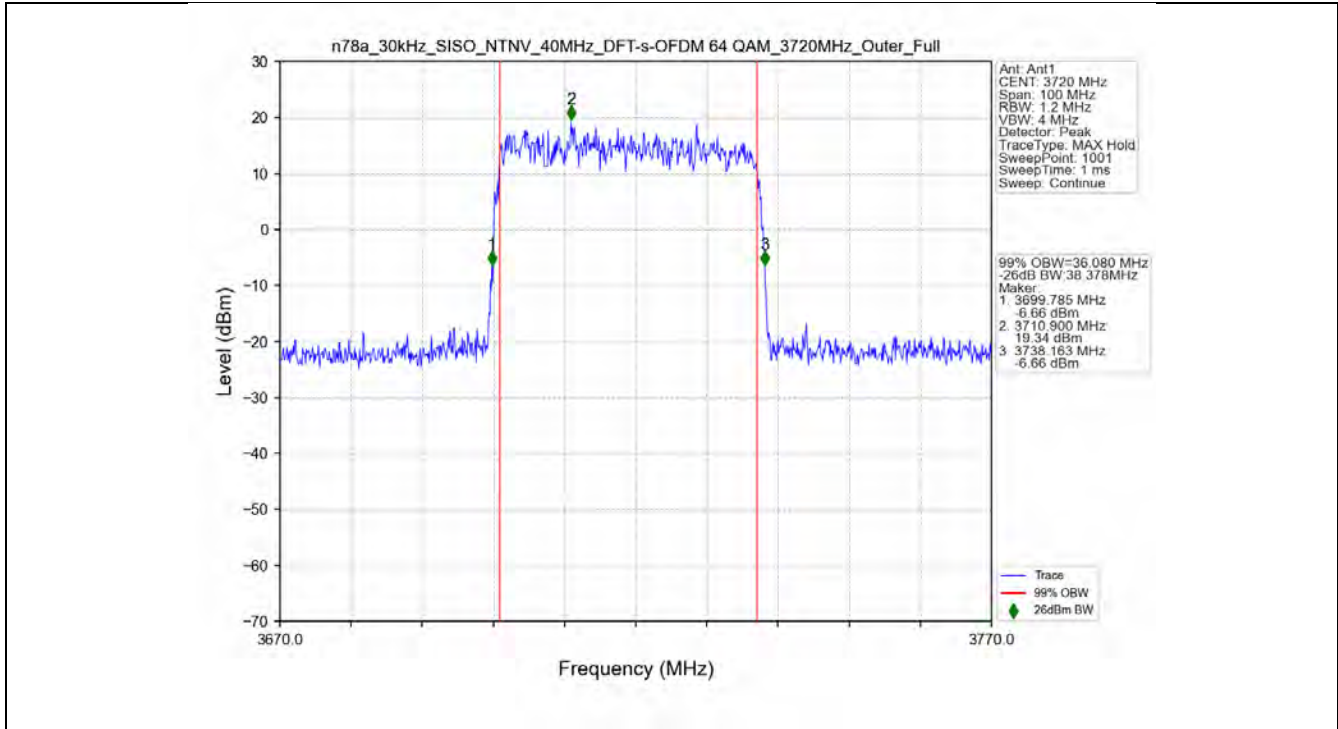


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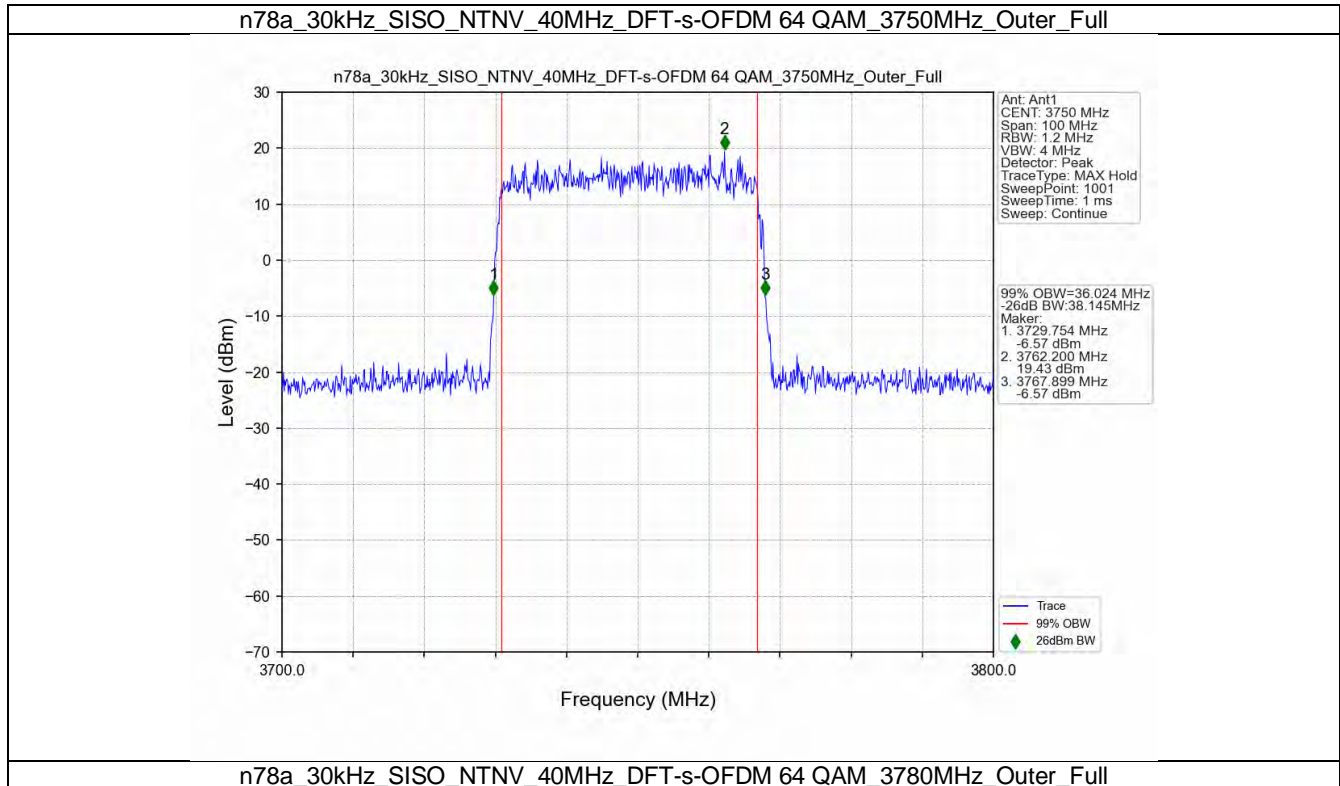


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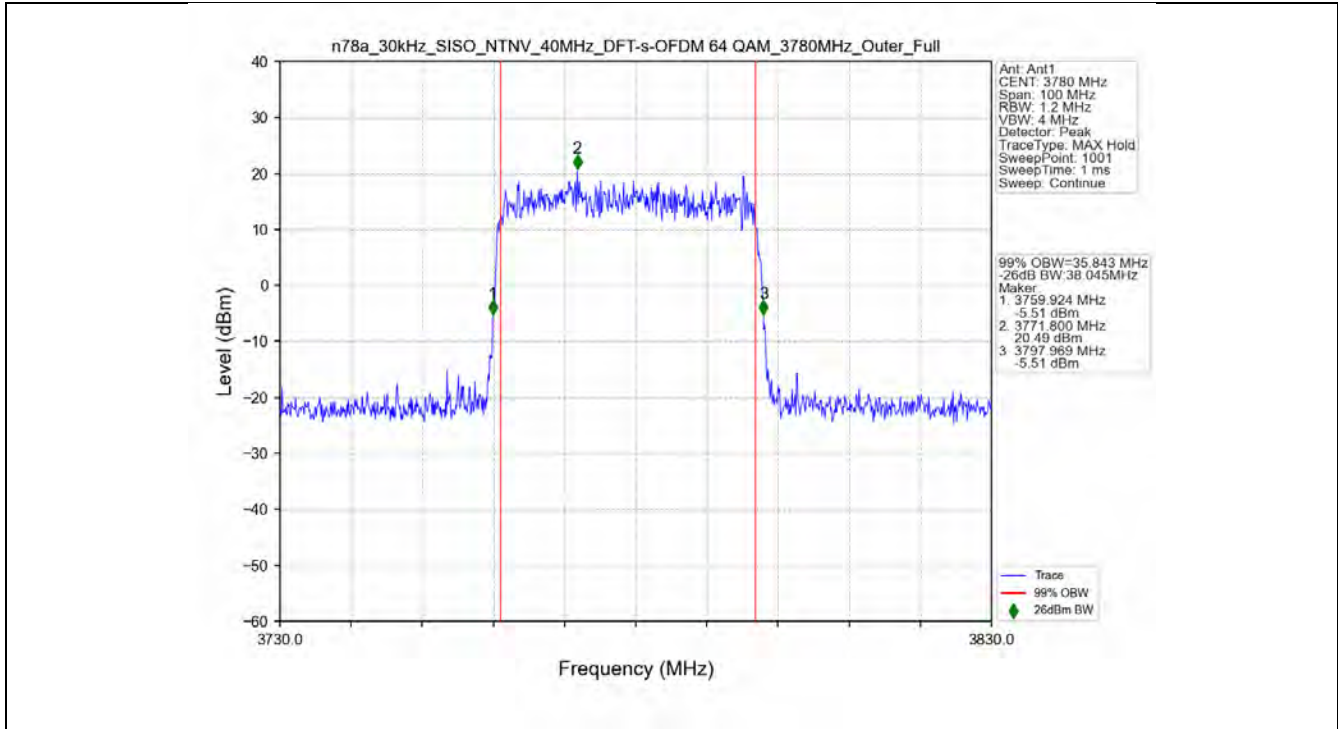


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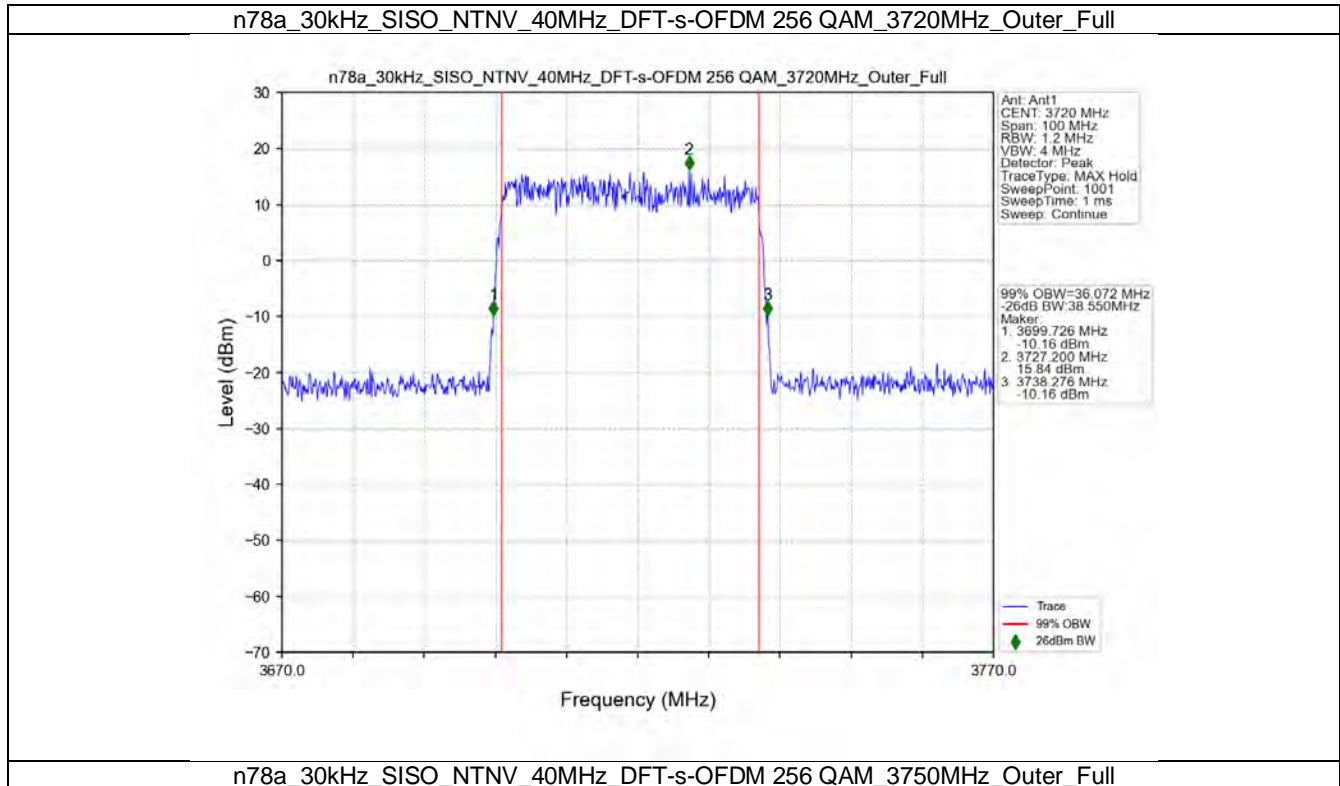


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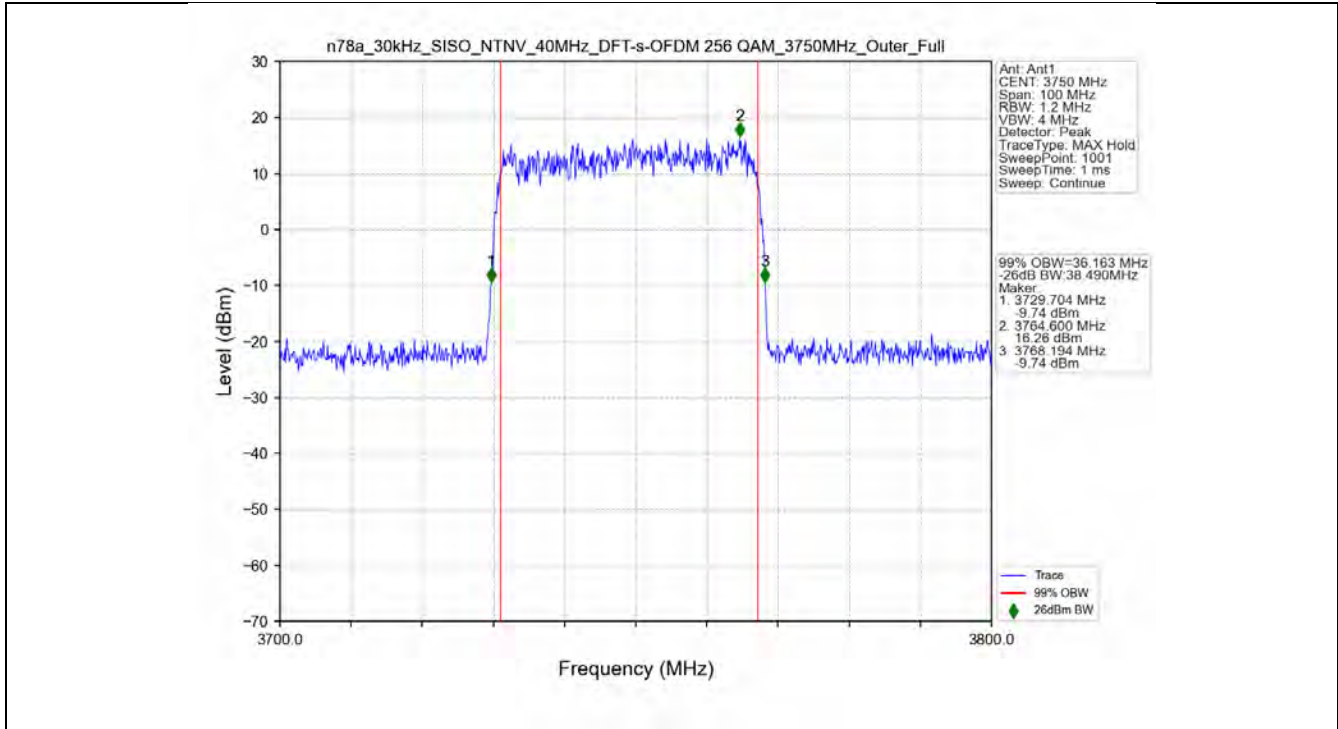


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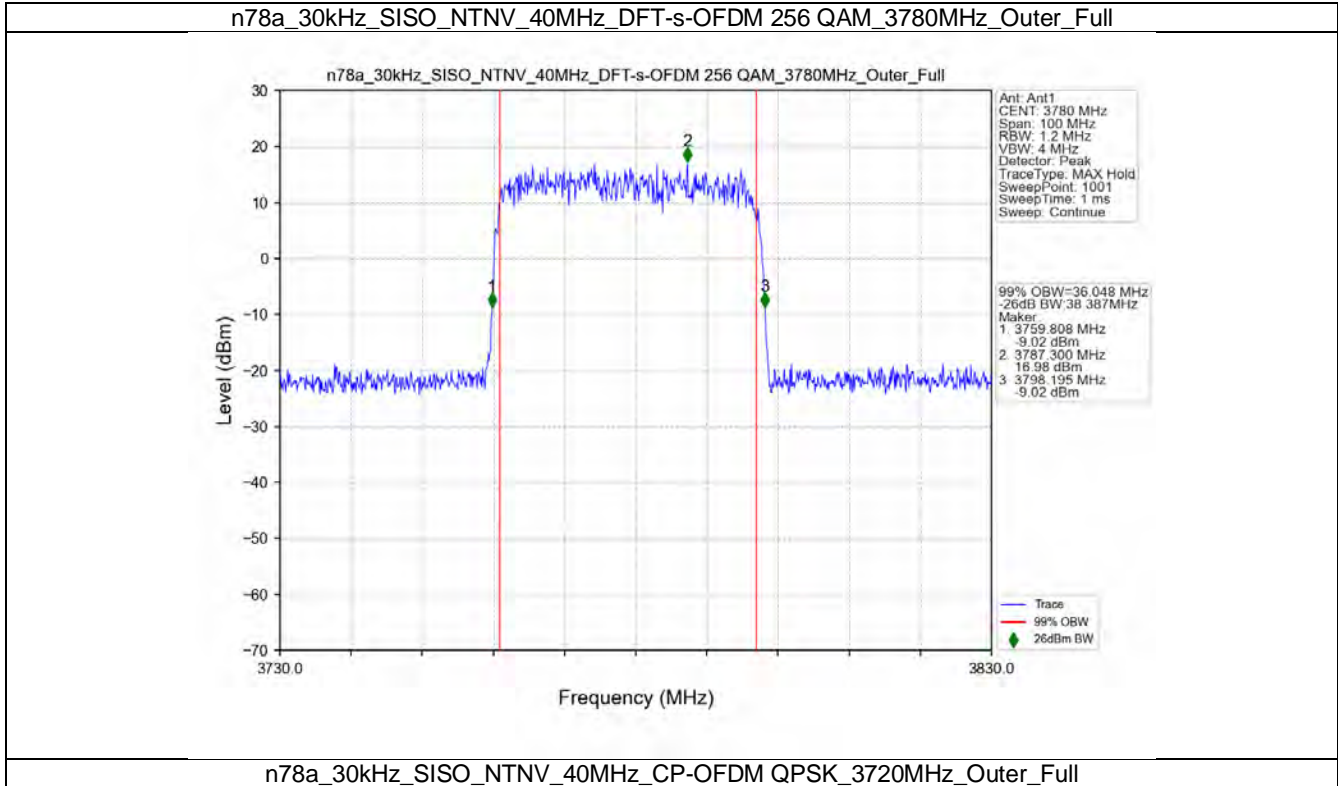


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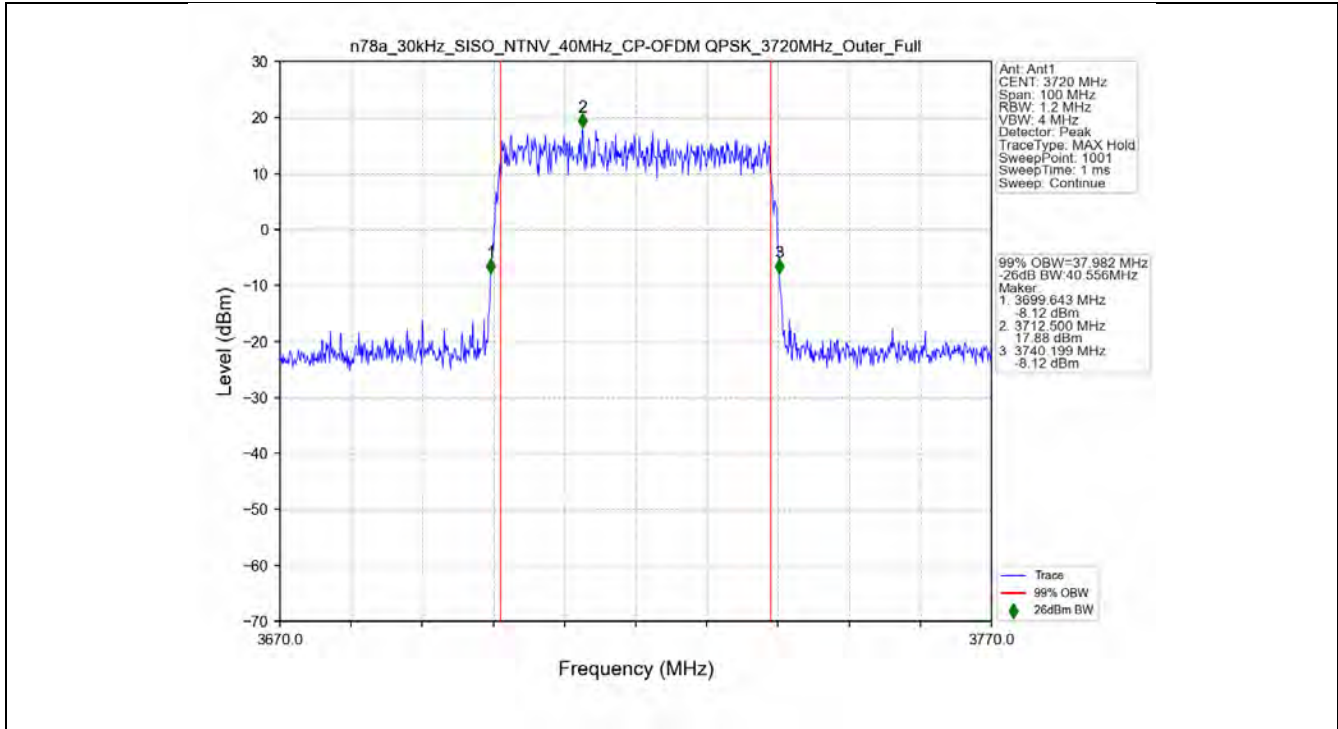


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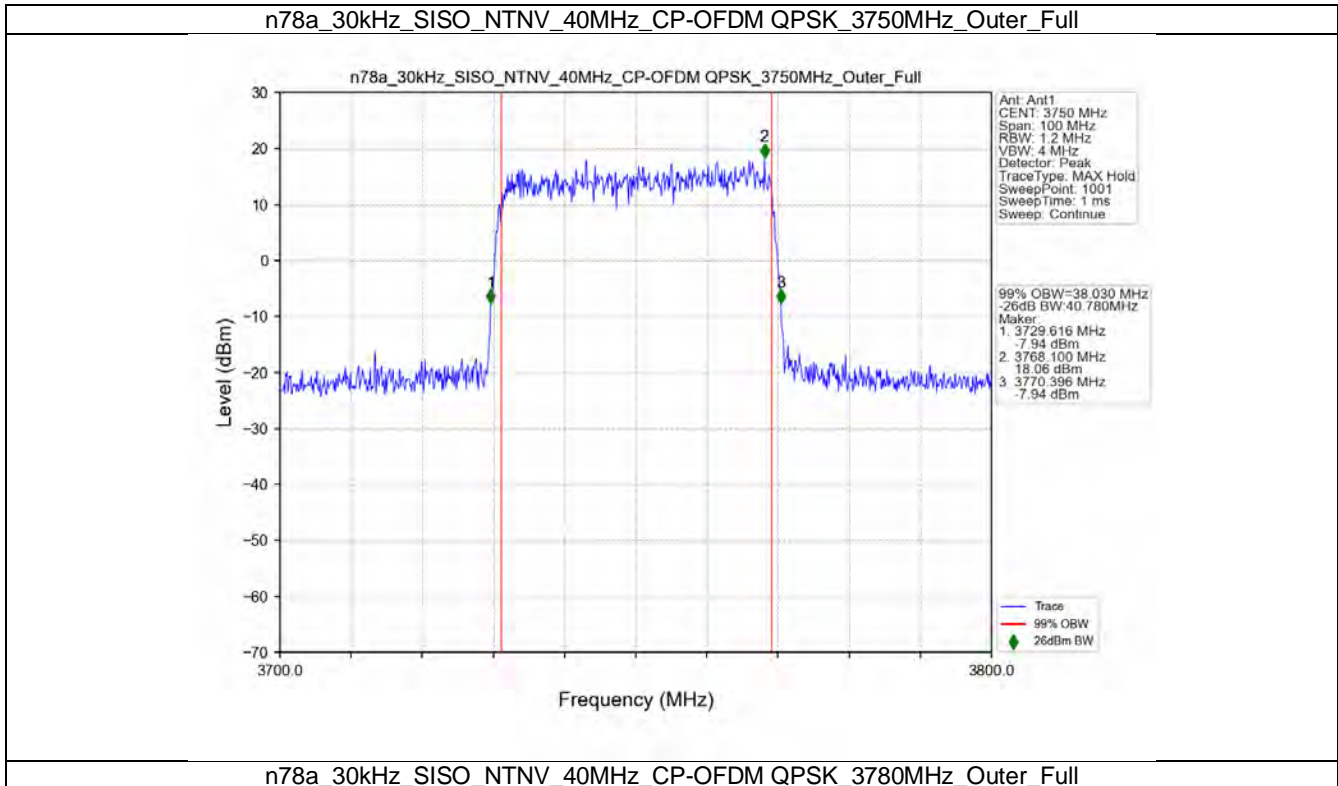


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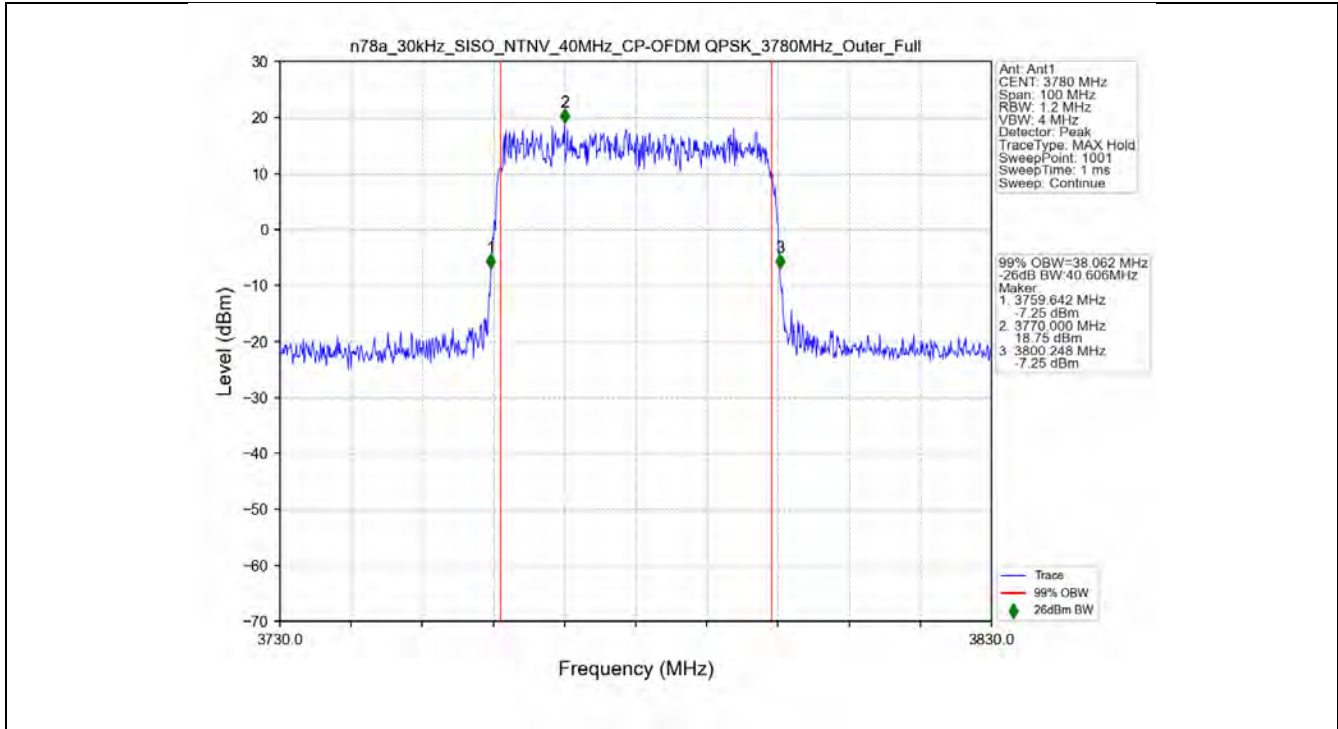


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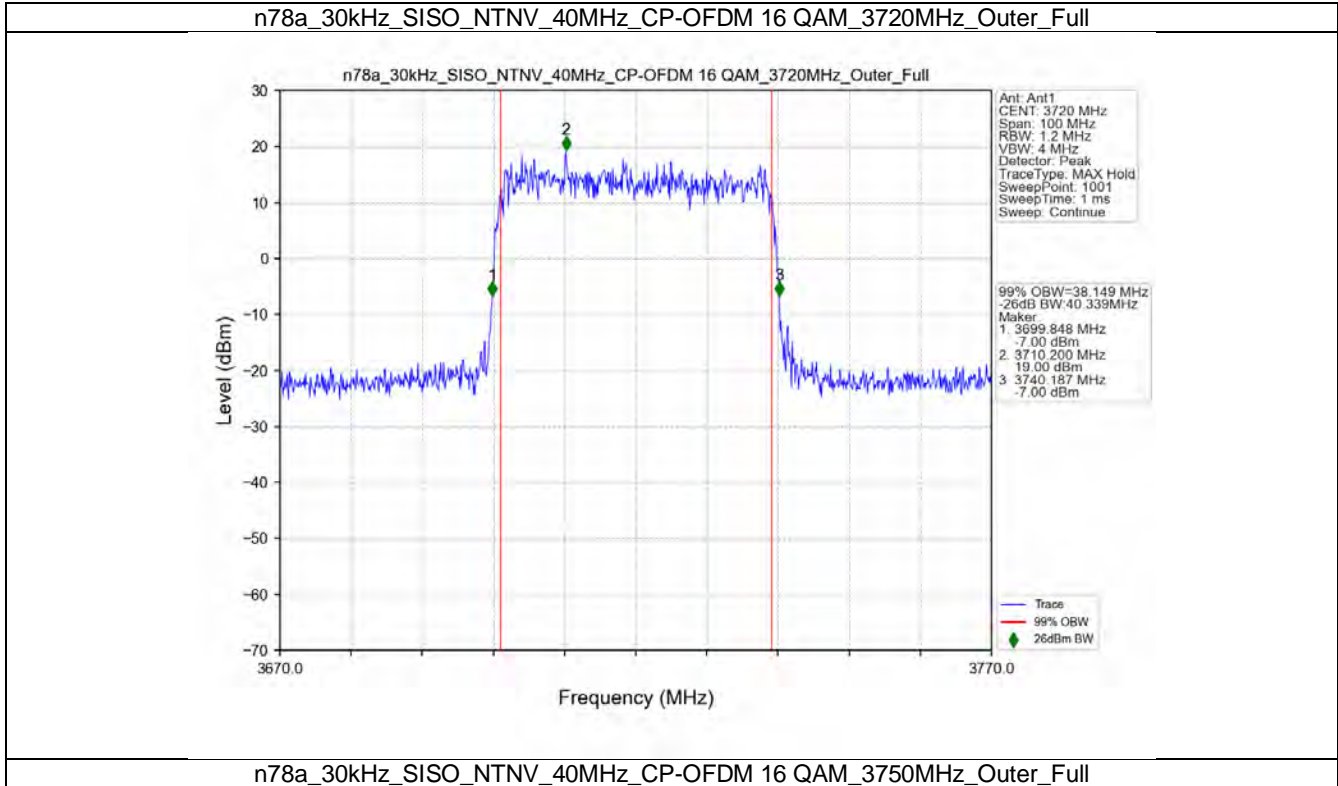


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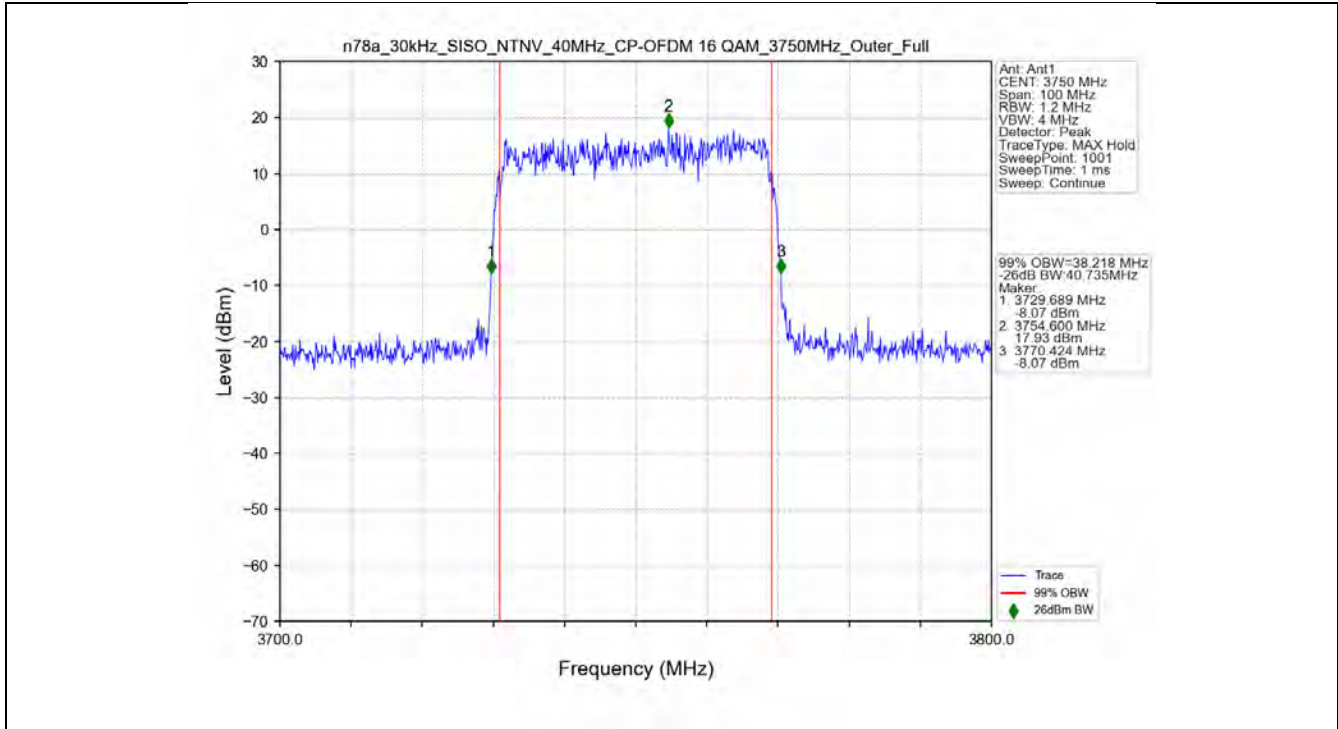


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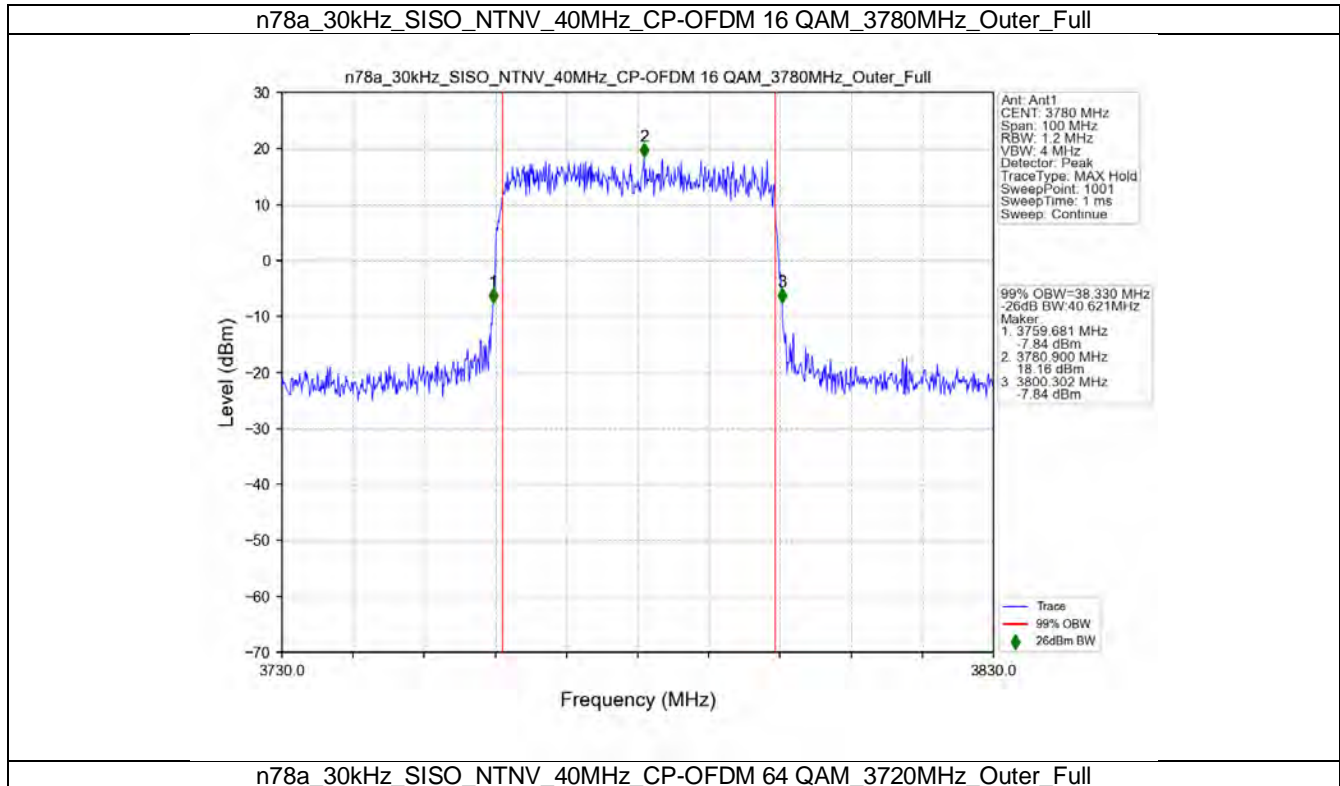


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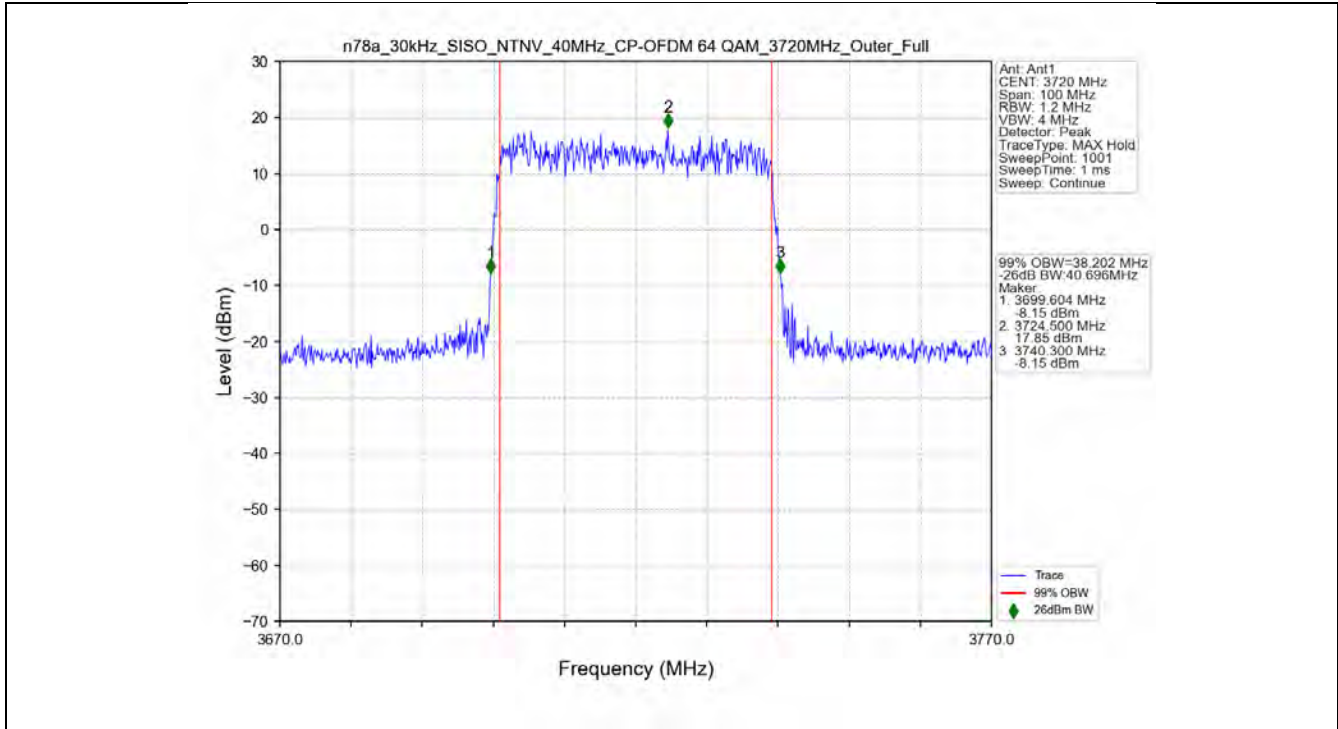


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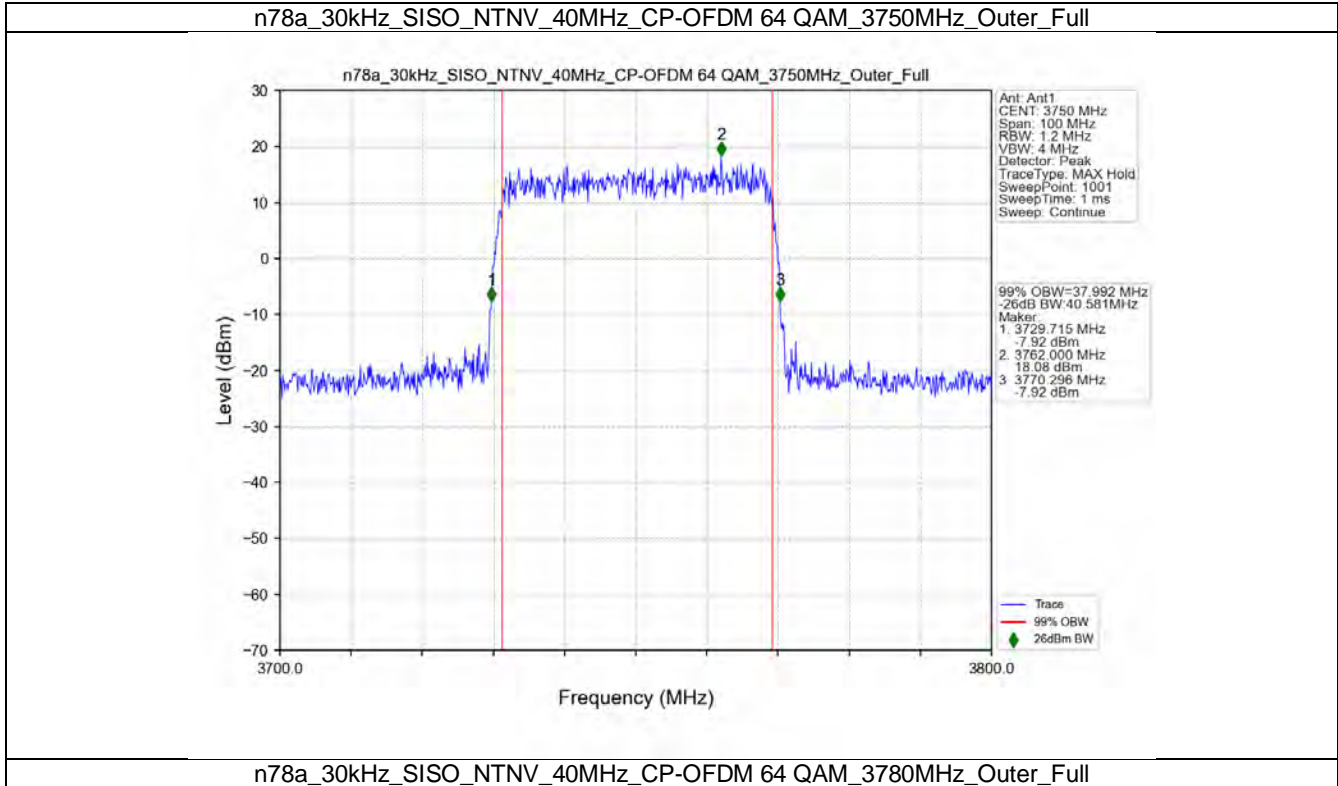


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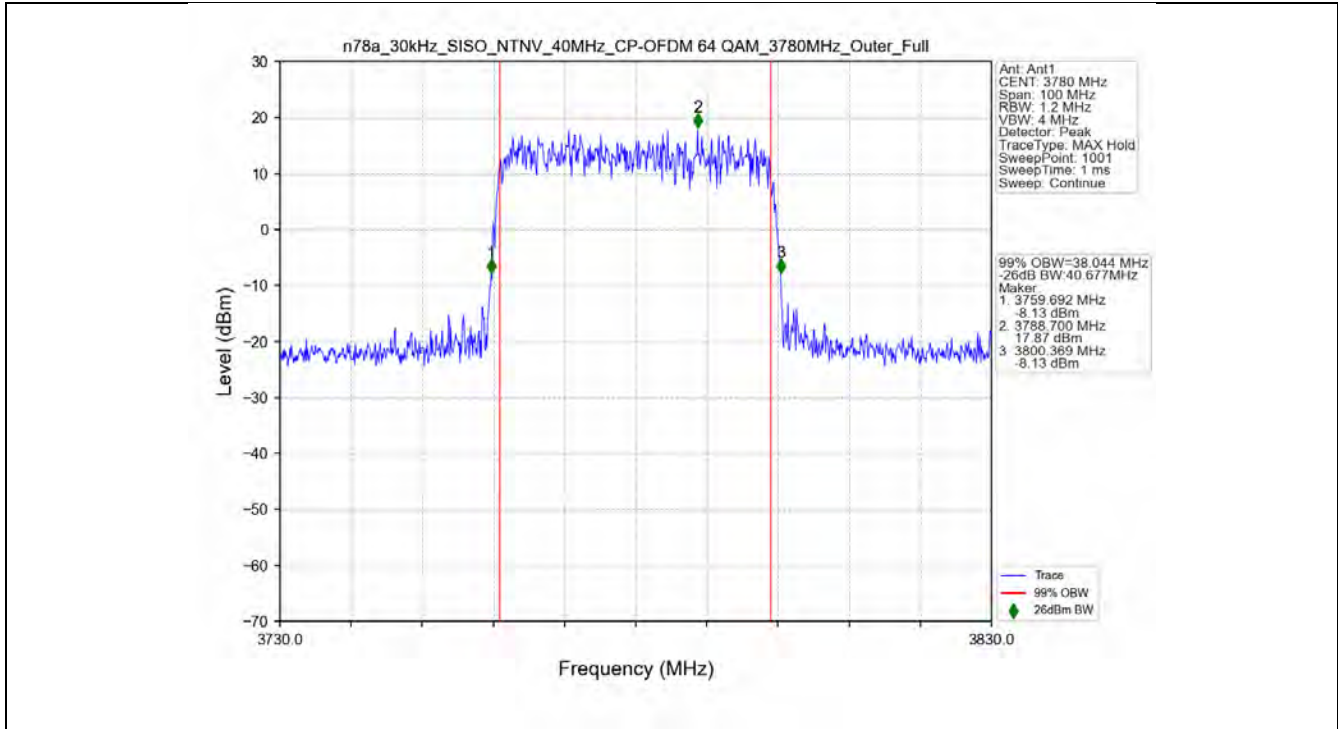


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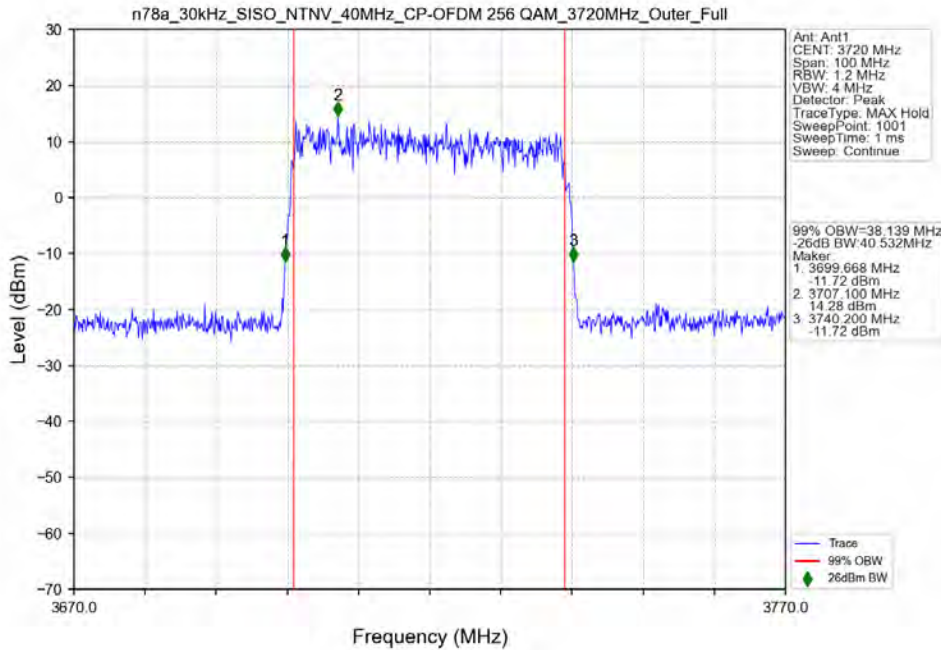
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n78a_30kHz_SISO_NTNV_40MHz_CP-OFDM 256 QAM_3720MHz_Outer_Full



n78a_30kHz_SISO_NTNV_40MHz_CP-OFDM 256 QAM_3750MHz_Outer_Full



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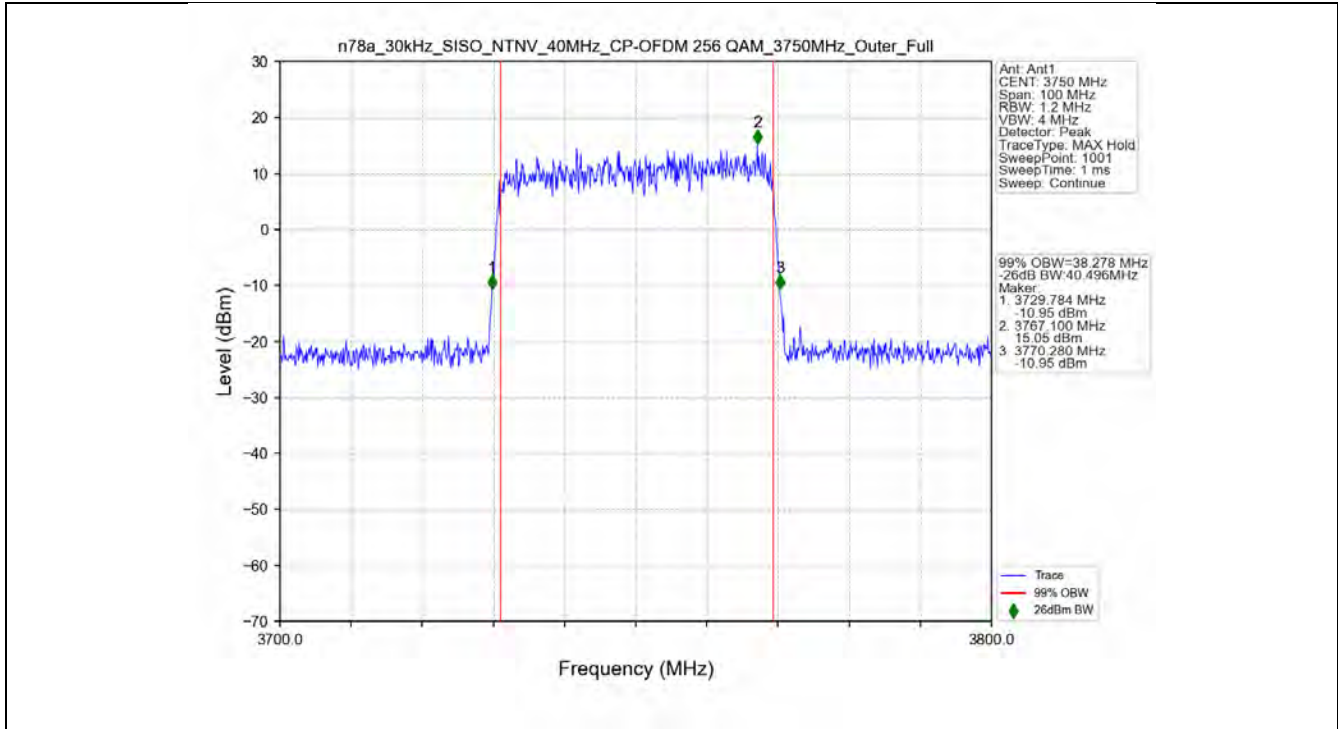


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3.4 30k_SISO_50MHz_NTNV

3.4.1 Test Result

| 5G NR n78a SCS=30kHz SISO 50MHz NTN | | | | | | |
|-------------------------------------|-----------------|---------------|---------------------|----------------------|-------------|---------|
| Modulation | Frequency (MHz) | RB Allocation | 99% Bandwidth (MHz) | 26dB Bandwidth (MHz) | Limit (MHz) | Verdict |
| DFT-s-OFDM PI/2 BPSK | 3725.01 | Outer_Full | 46.09 | 49.29 | / | Pass |
| | 3750 | Outer_Full | 45.98 | 49.21 | / | Pass |
| | 3774.99 | Outer_Full | 46.13 | 49.14 | / | Pass |
| DFT-s-OFDM QPSK | 3725.01 | Outer_Full | 46.23 | 49.05 | / | Pass |
| | 3750 | Outer_Full | 46.02 | 48.81 | / | Pass |
| | 3774.99 | Outer_Full | 45.63 | 48.97 | / | Pass |
| DFT-s-OFDM 16 QAM | 3725.01 | Outer_Full | 46.19 | 49.11 | / | Pass |
| | 3750 | Outer_Full | 46.23 | 48.99 | / | Pass |
| | 3774.99 | Outer_Full | 45.68 | 49.22 | / | Pass |
| DFT-s-OFDM 64 QAM | 3725.01 | Outer_Full | 46.05 | 49.03 | / | Pass |
| | 3750 | Outer_Full | 46.07 | 49.12 | / | Pass |
| | 3774.99 | Outer_Full | 45.92 | 49.17 | / | Pass |
| DFT-s-OFDM 256 QAM | 3725.01 | Outer_Full | 46.18 | 49.08 | / | Pass |
| | 3750 | Outer_Full | 46.00 | 49.35 | / | Pass |
| | 3774.99 | Outer_Full | 46.08 | 49.01 | / | Pass |
| CP-OFDM QPSK | 3725.01 | Outer_Full | 47.98 | 50.95 | / | Pass |
| | 3750 | Outer_Full | 47.77 | 50.65 | / | Pass |
| | 3774.99 | Outer_Full | 47.84 | 50.76 | / | Pass |
| CP-OFDM 16 QAM | 3725.01 | Outer_Full | 47.87 | 50.82 | / | Pass |
| | 3750 | Outer_Full | 48.14 | 51.06 | / | Pass |
| | 3774.99 | Outer_Full | 47.84 | 50.70 | / | Pass |
| CP-OFDM 64 QAM | 3725.01 | Outer_Full | 47.83 | 51.08 | / | Pass |
| | 3750 | Outer_Full | 47.68 | 50.72 | / | Pass |
| | 3774.99 | Outer_Full | 47.32 | 50.82 | / | Pass |
| CP-OFDM 256 QAM | 3725.01 | Outer_Full | 48.05 | 50.80 | / | Pass |
| | 3750 | Outer_Full | 47.88 | 50.91 | / | Pass |
| | 3774.99 | Outer_Full | 47.72 | 50.95 | / | Pass |



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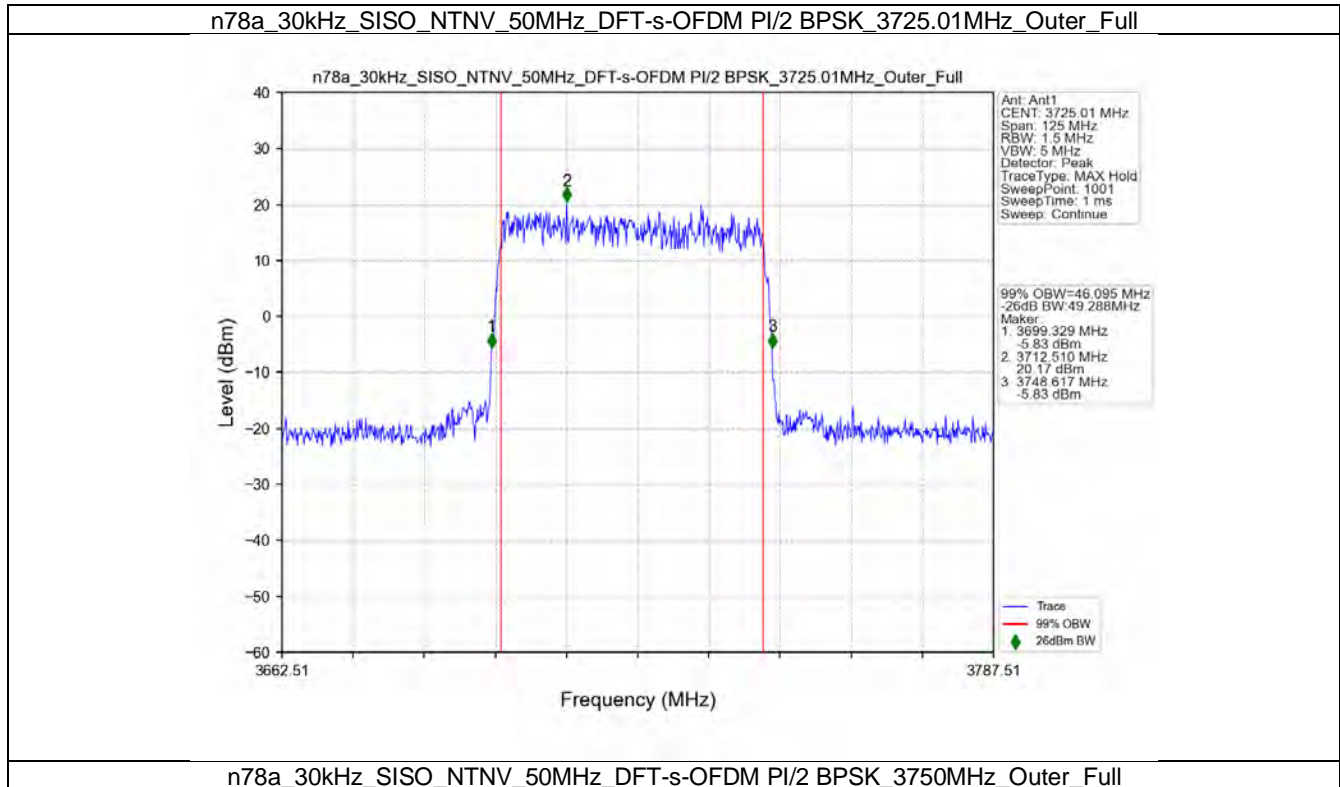
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3.4.2 Test Graph



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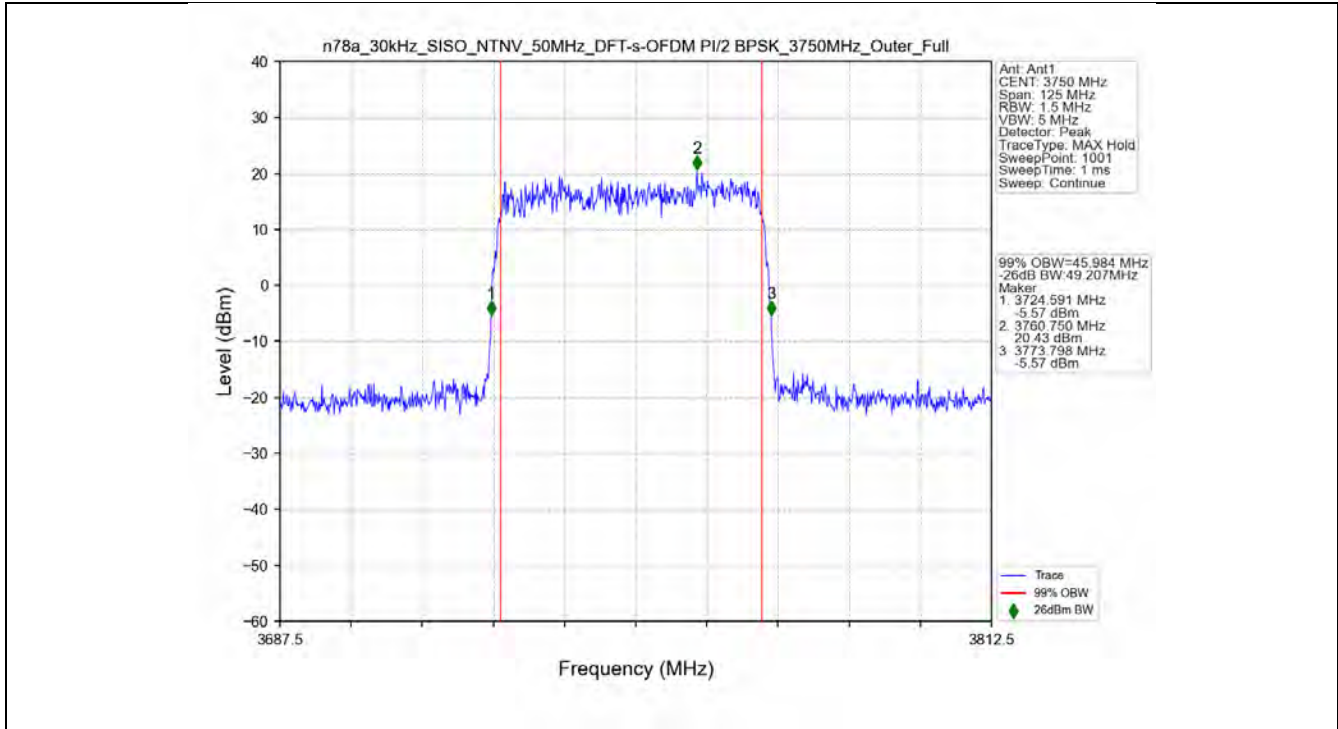


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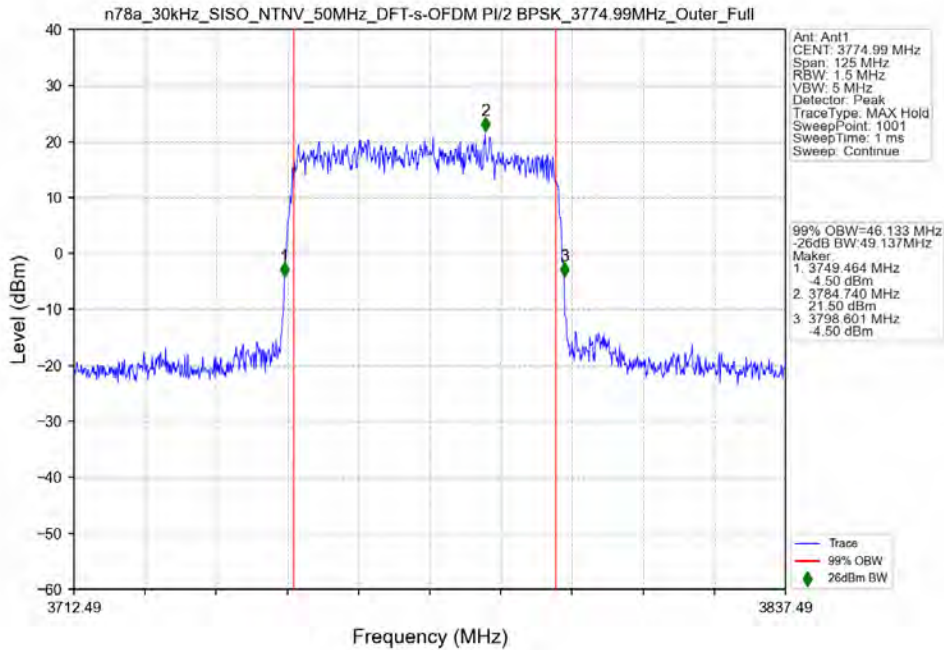
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n78a_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM PI/2 BPSK_3774.99MHz_Outer_Full



n78a_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM QPSK_3725.01MHz_Outer_Full



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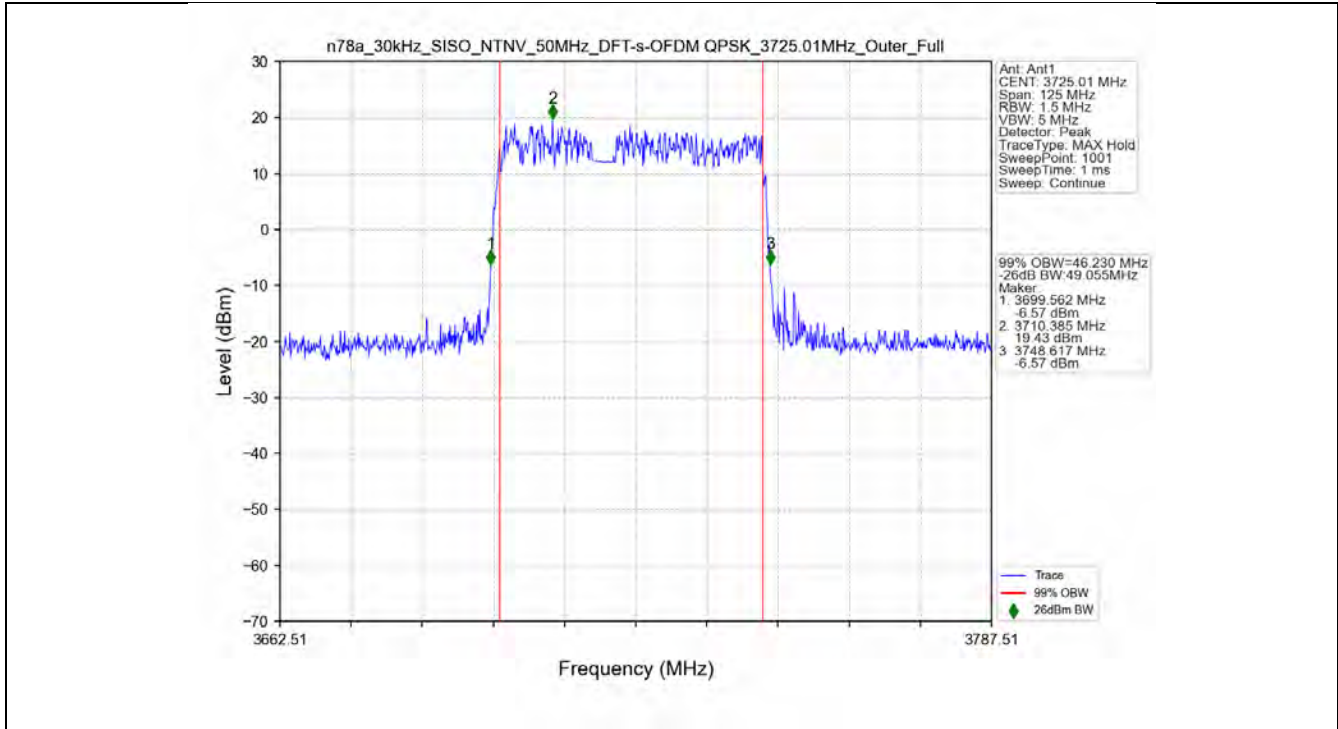


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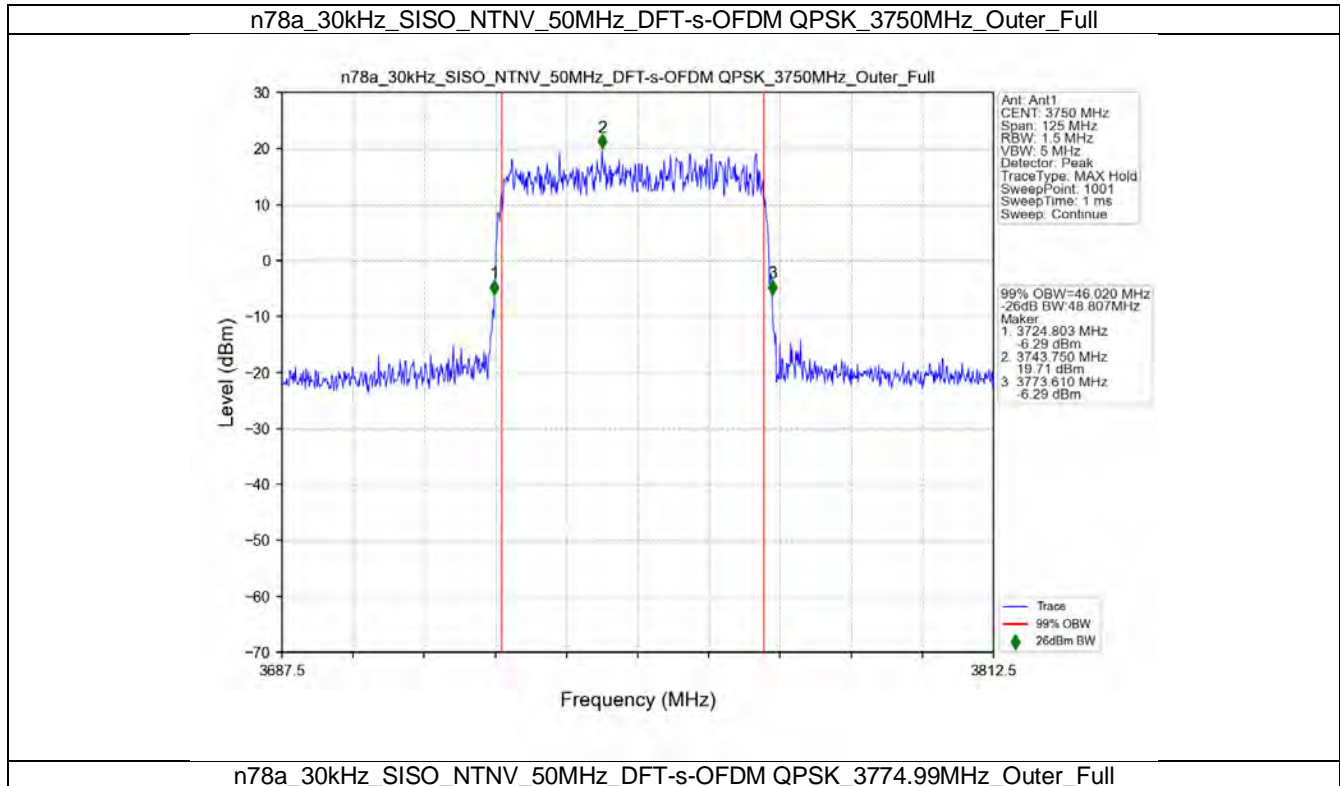


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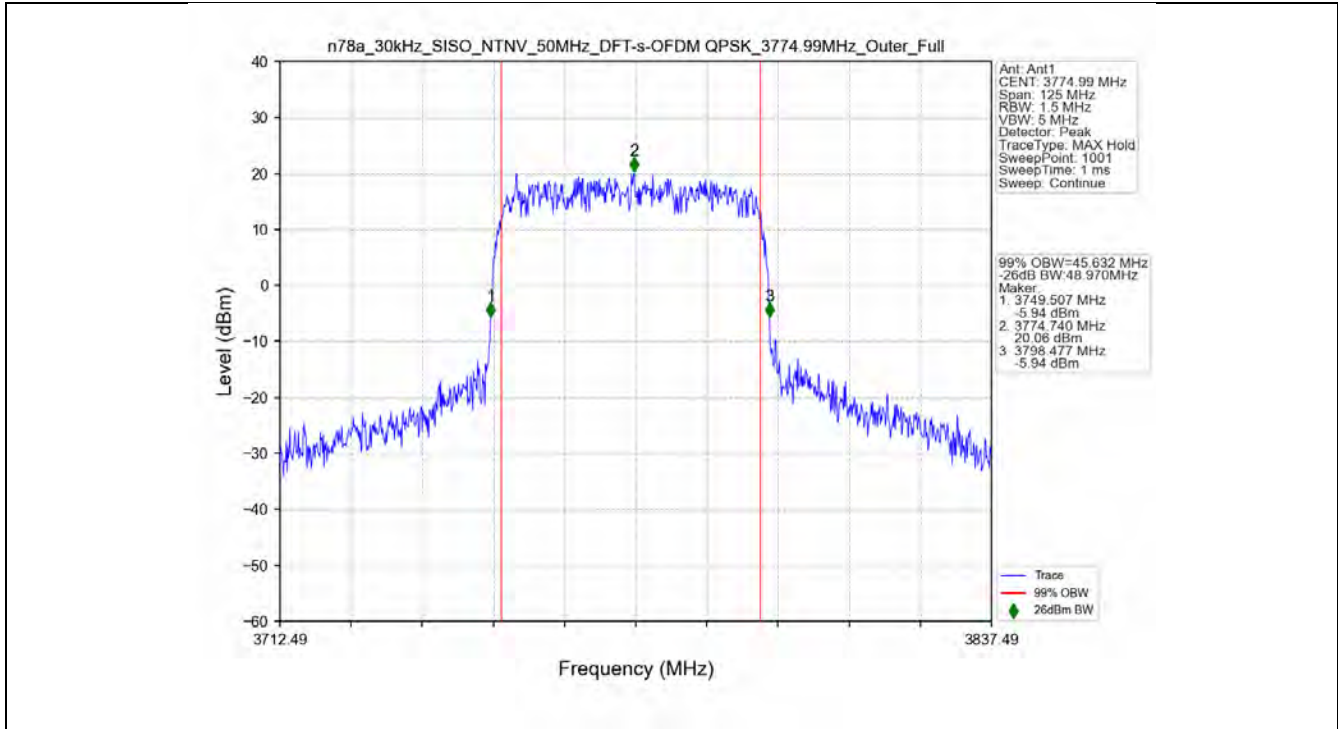


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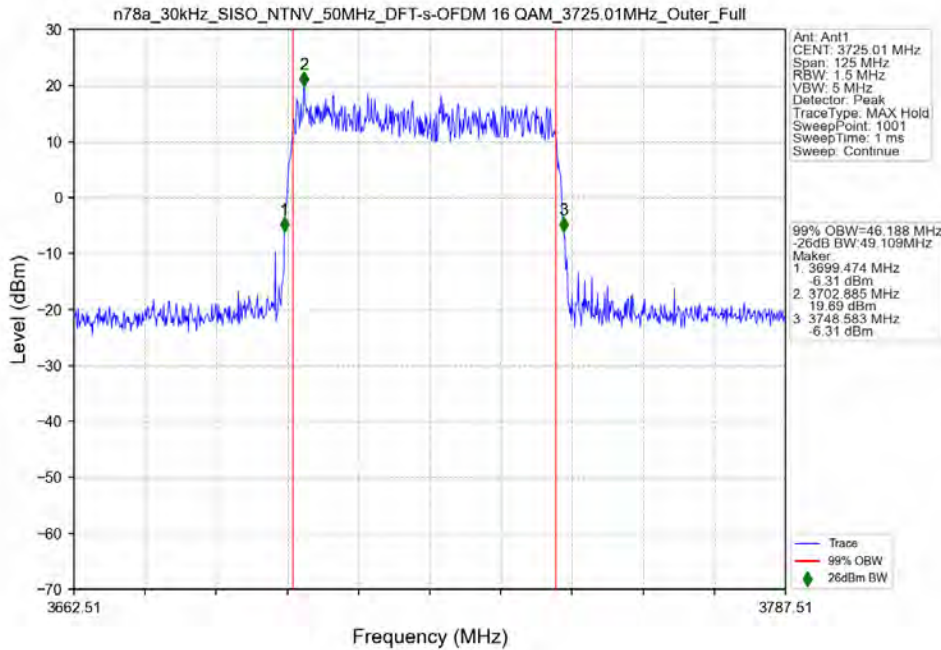
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n78a_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM 16 QAM_3725.01MHz_Outer_Full



n78a_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM 16 QAM_3750MHz_Outer_Full



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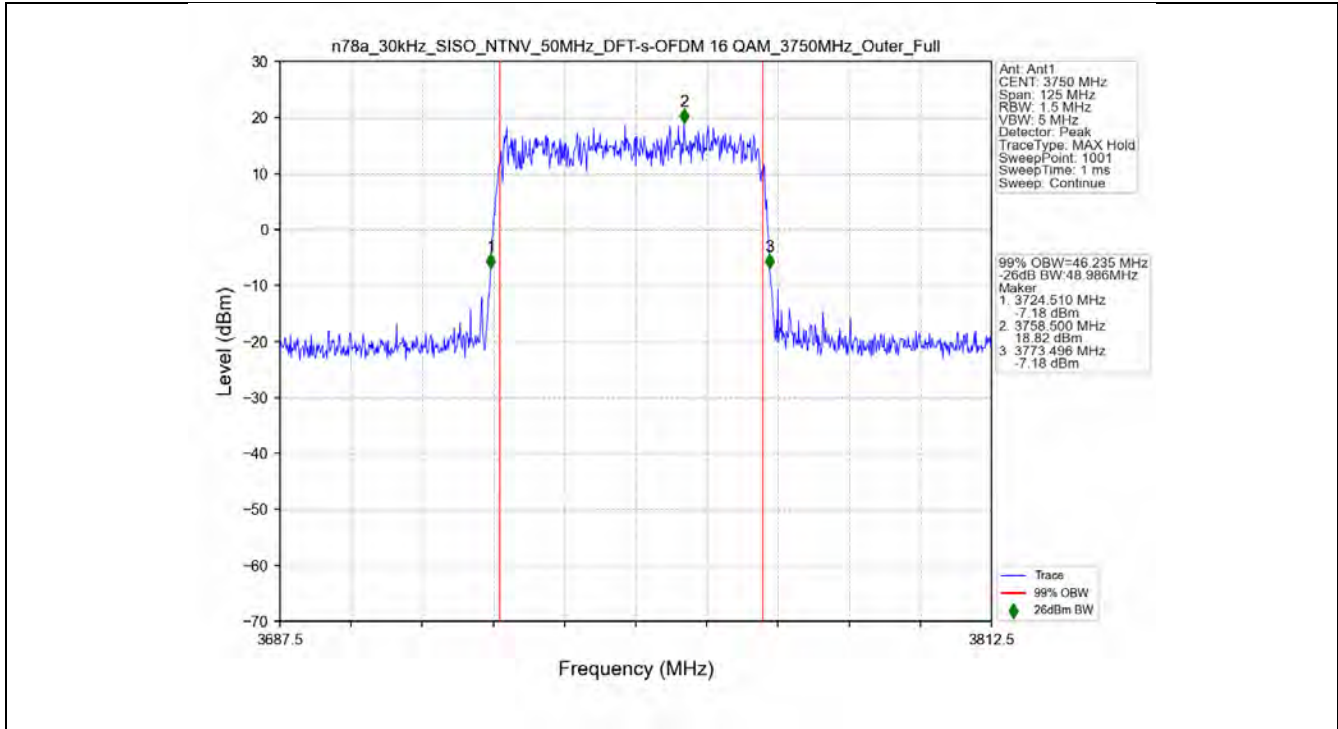


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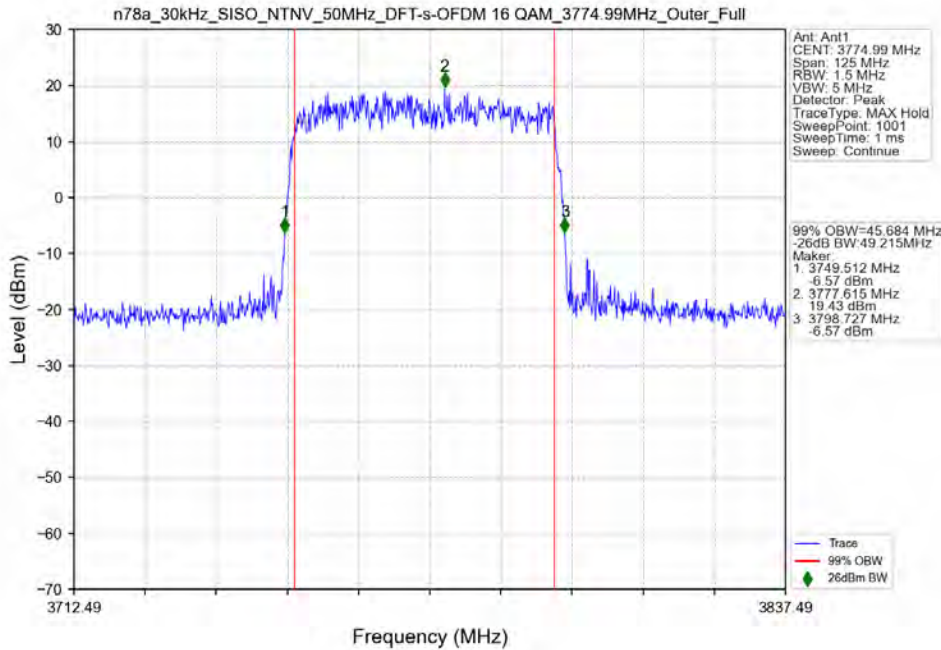
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n78a_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM 16 QAM_3774.99MHz_Outer_Full



n78a_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM 64 QAM_3725.01MHz_Outer_Full



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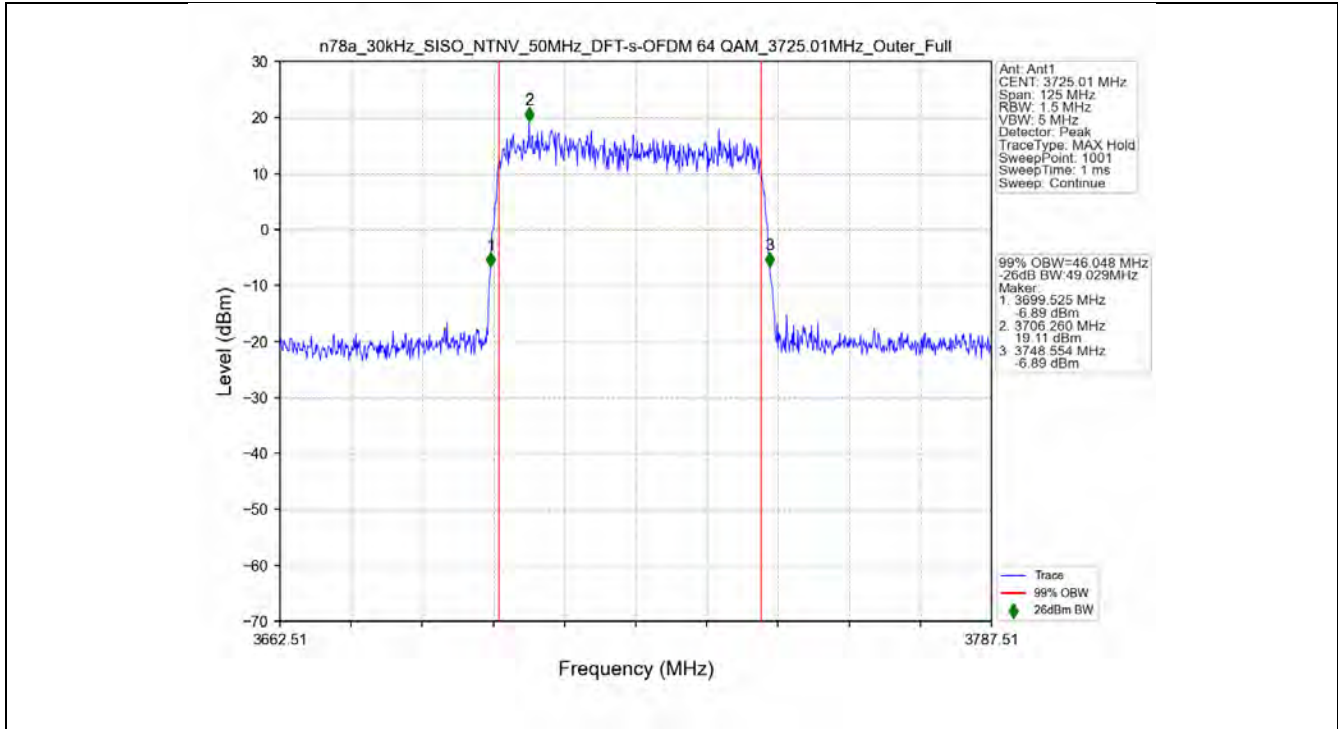


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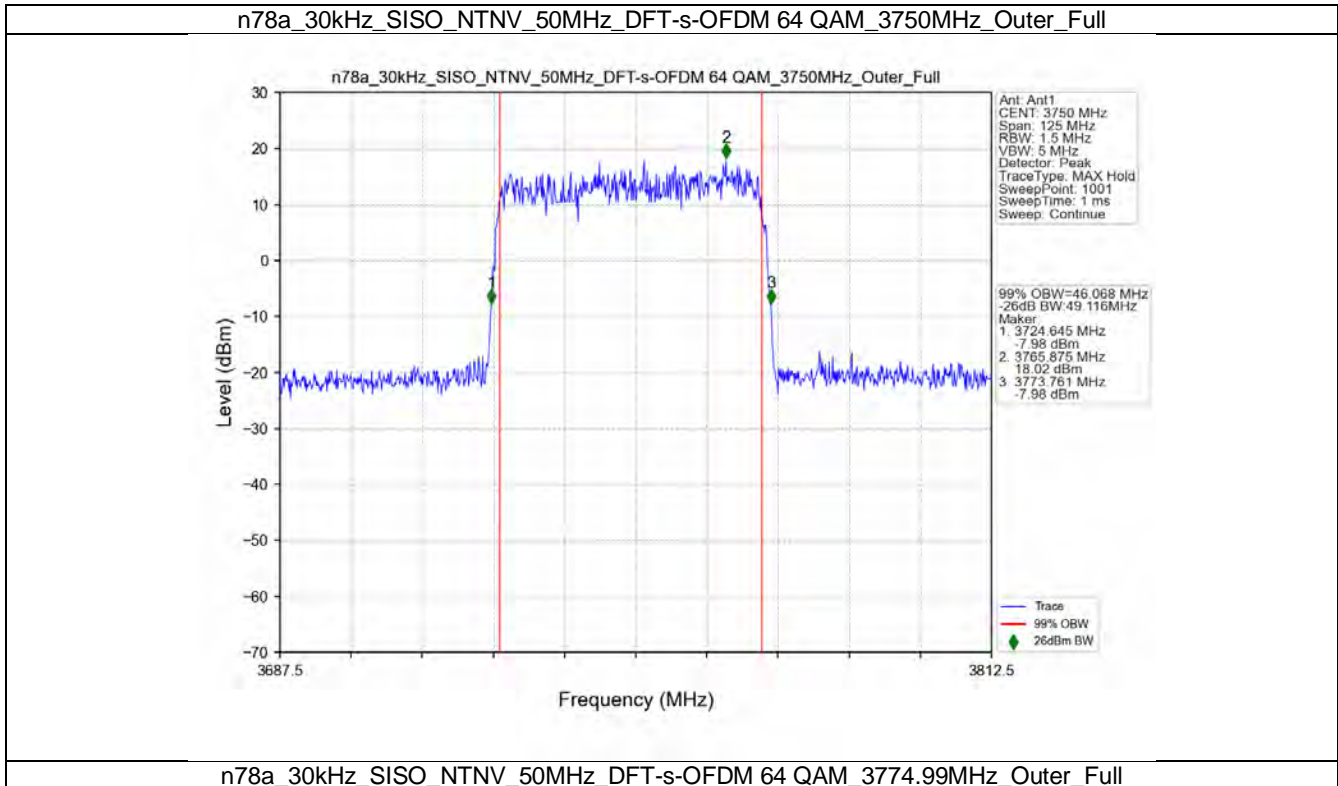


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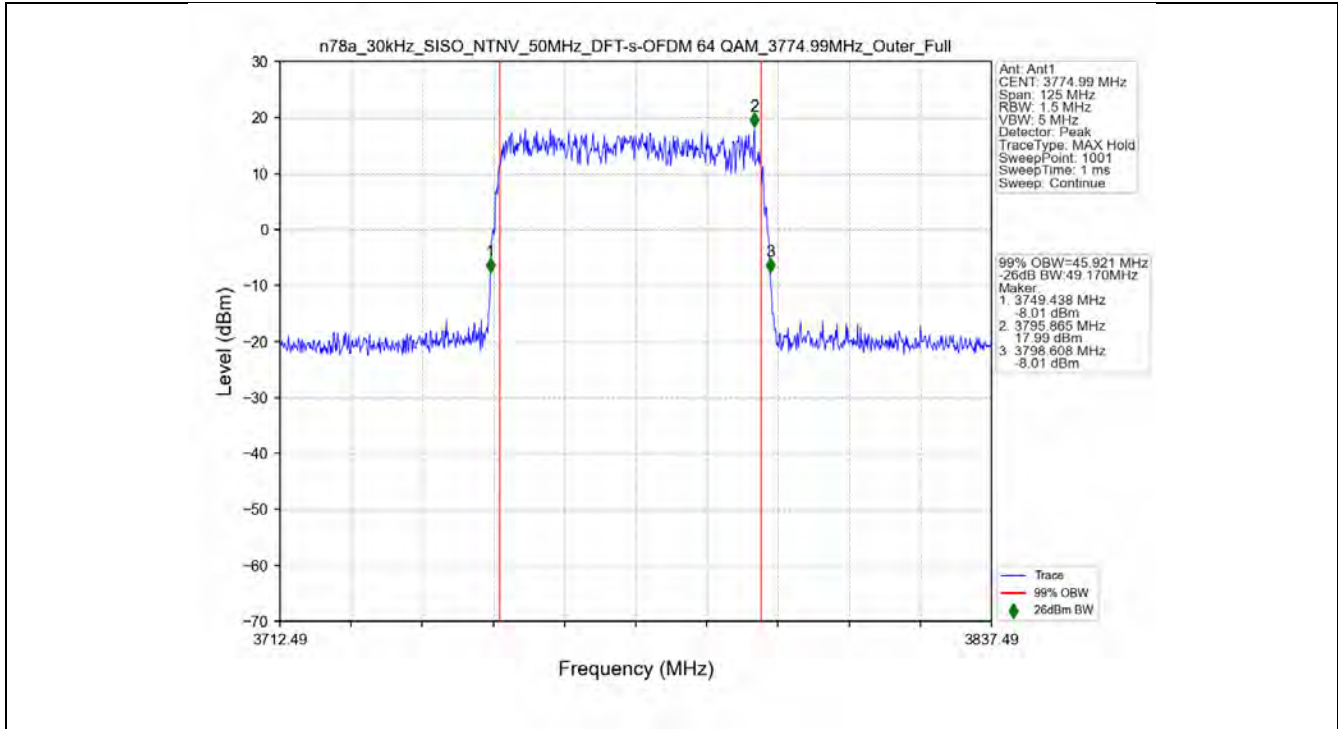


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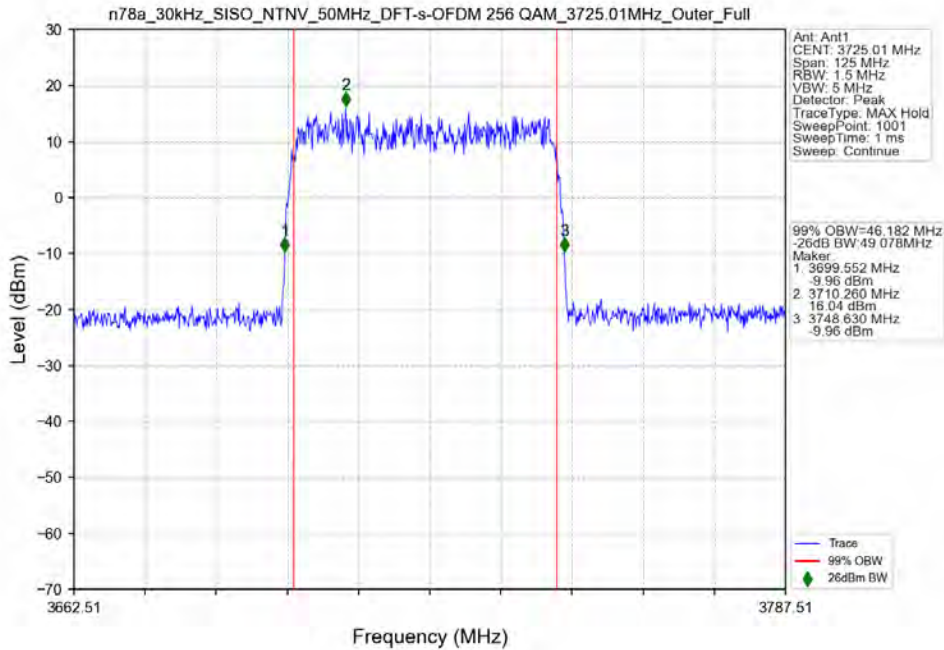
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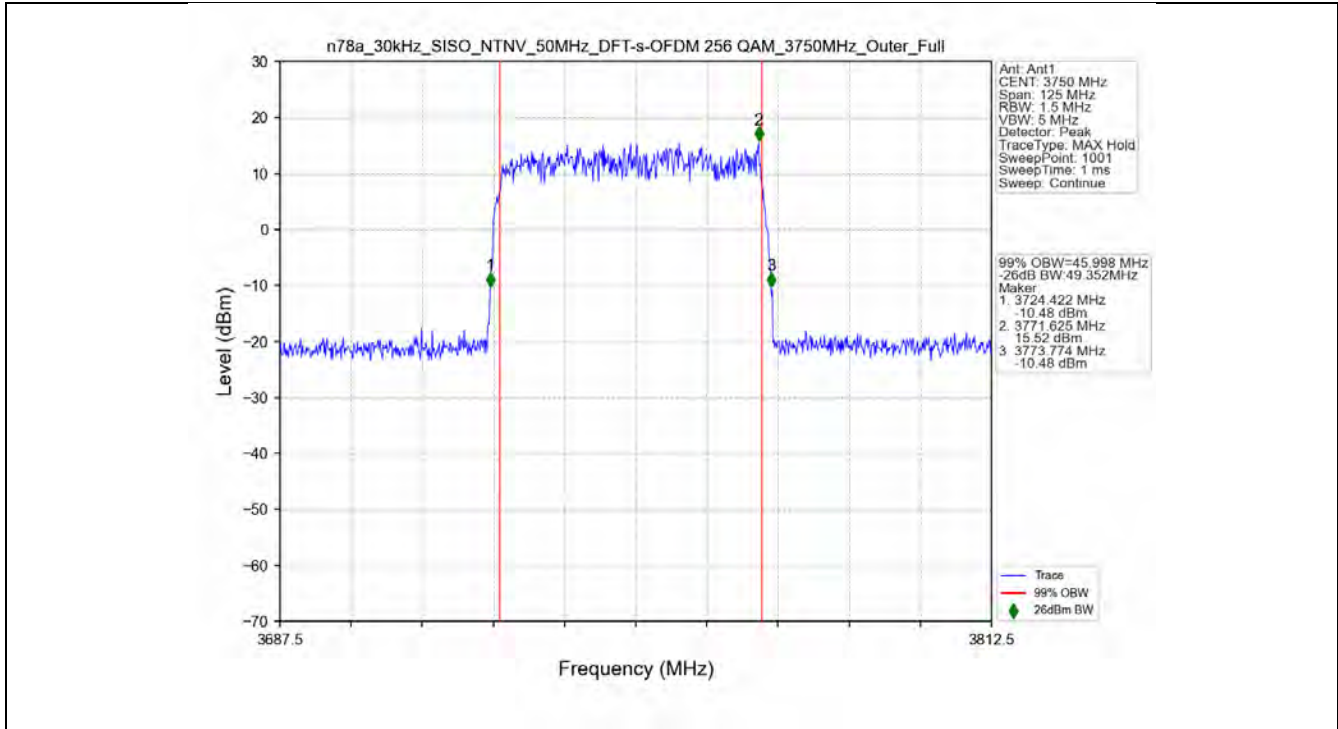


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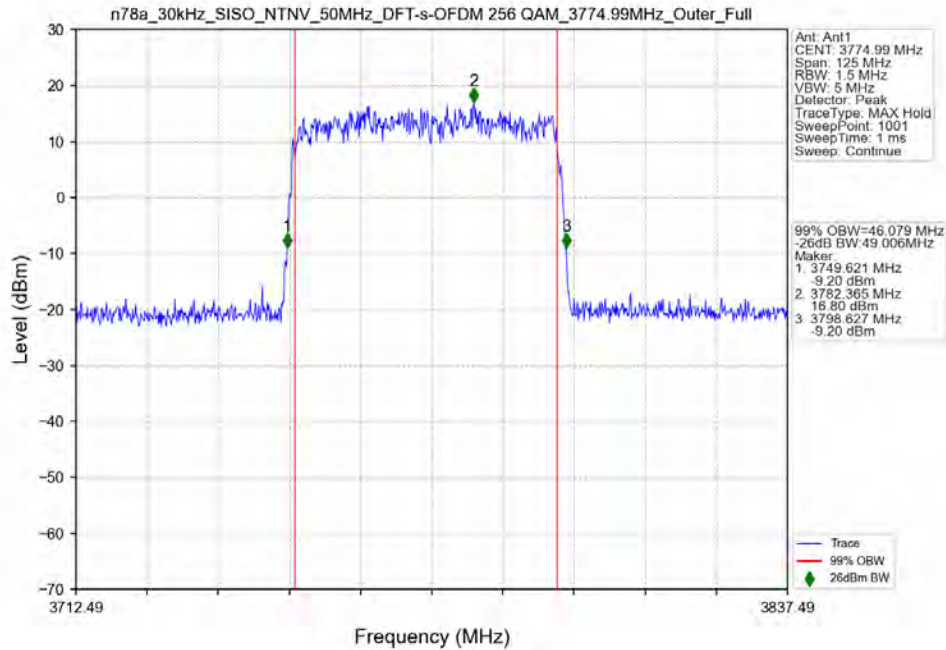
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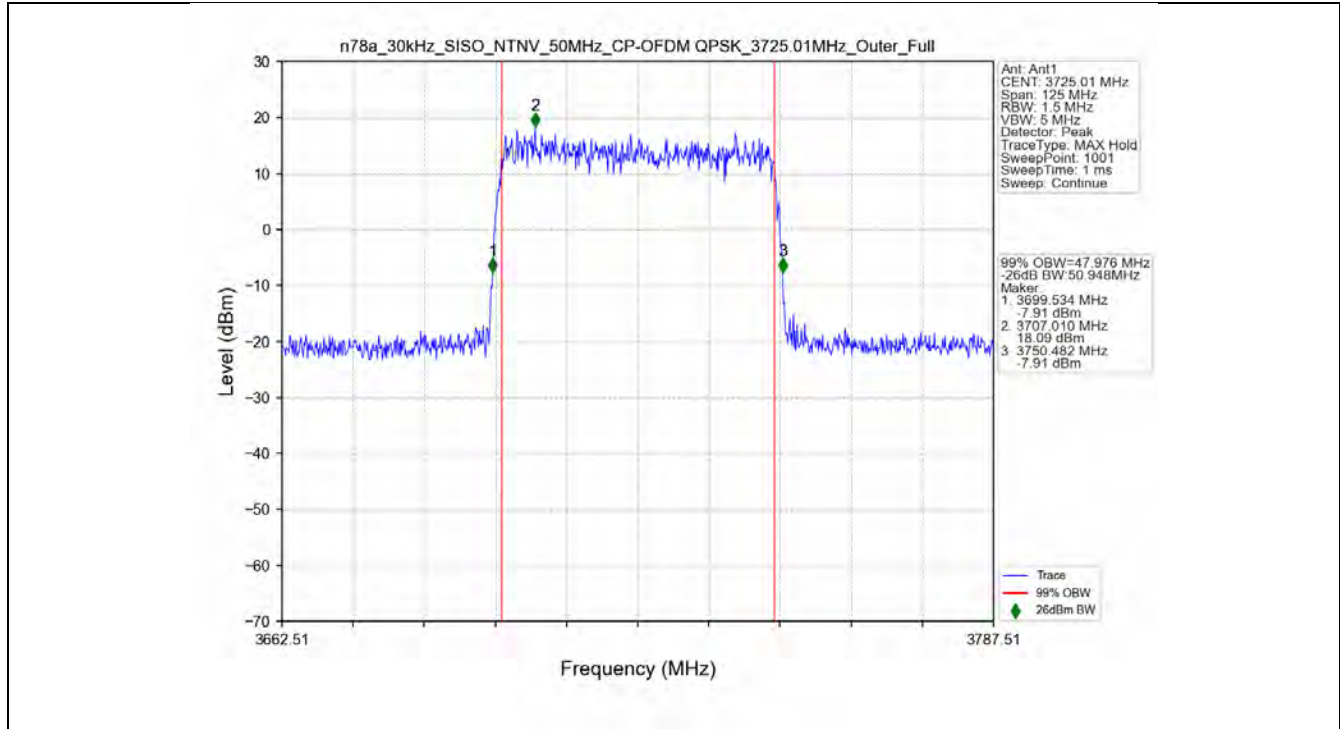


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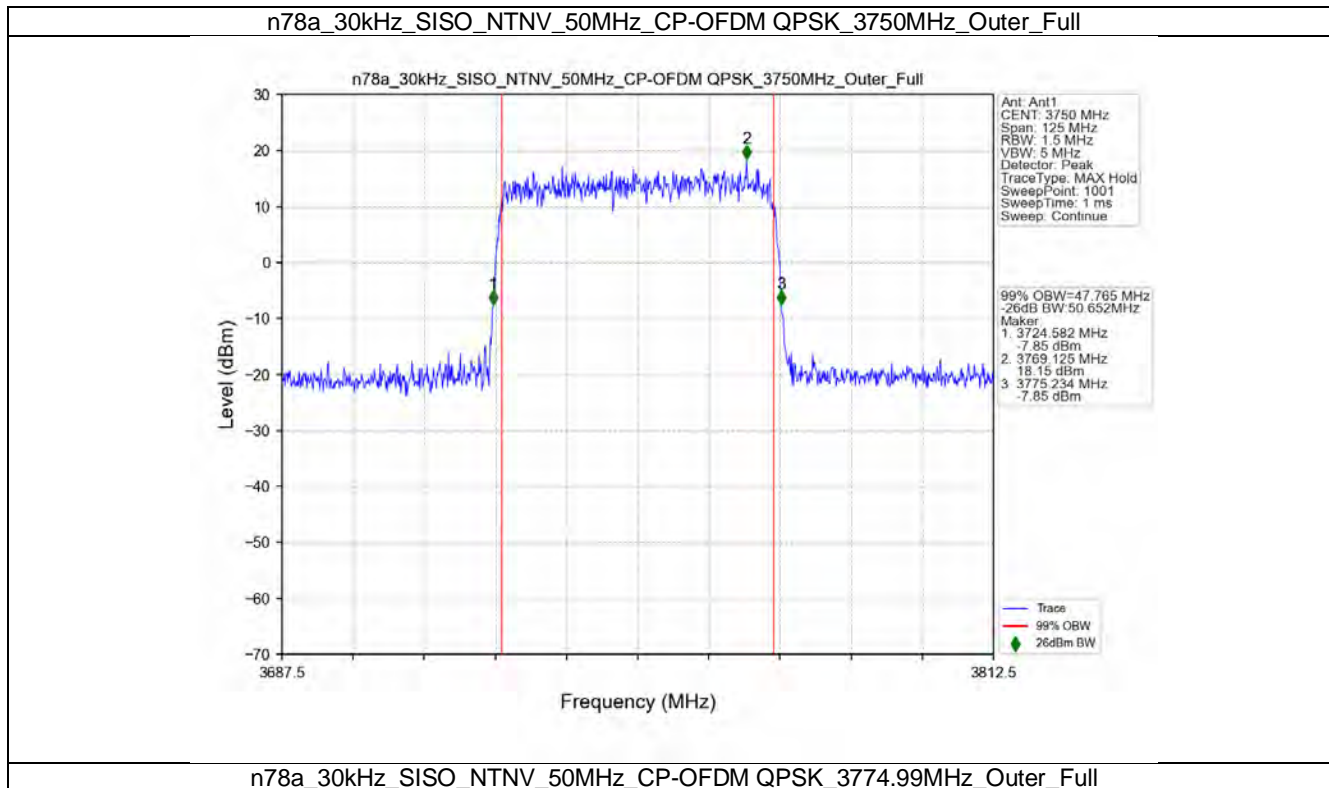
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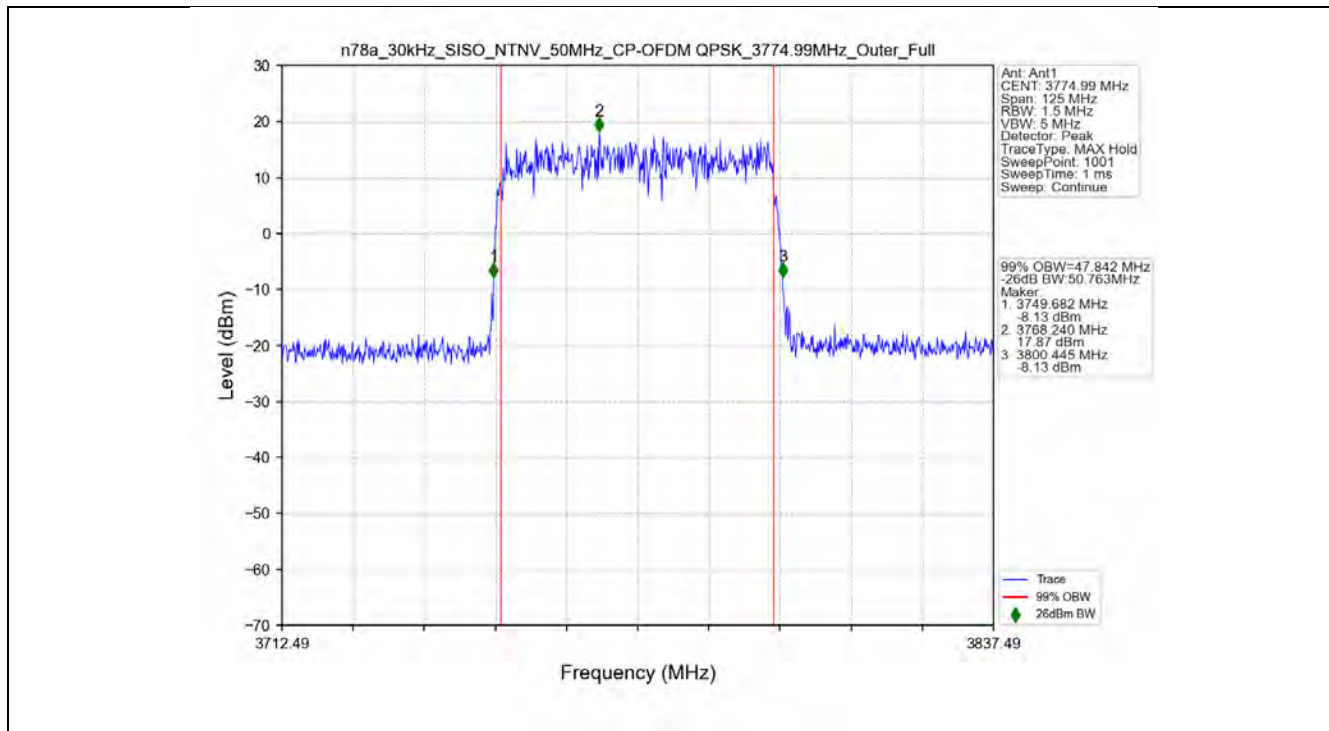
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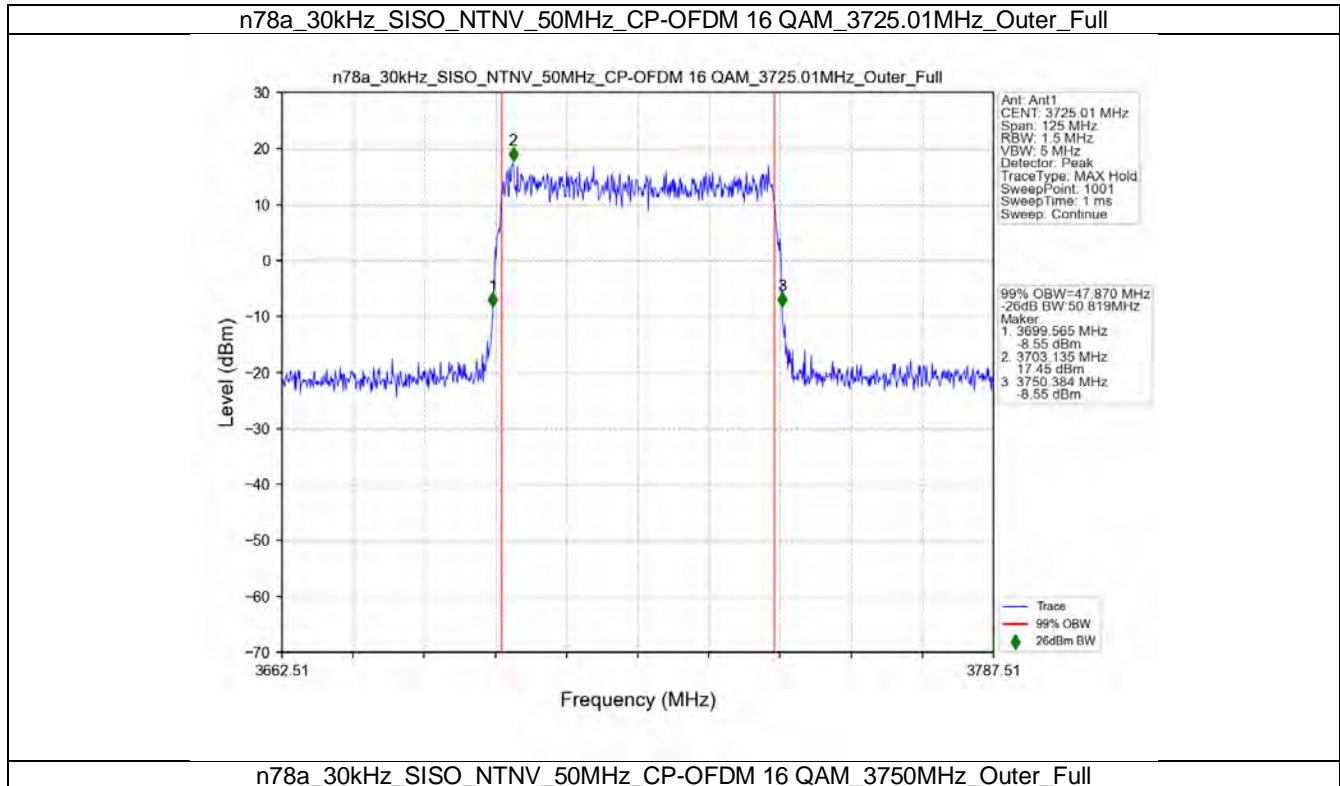


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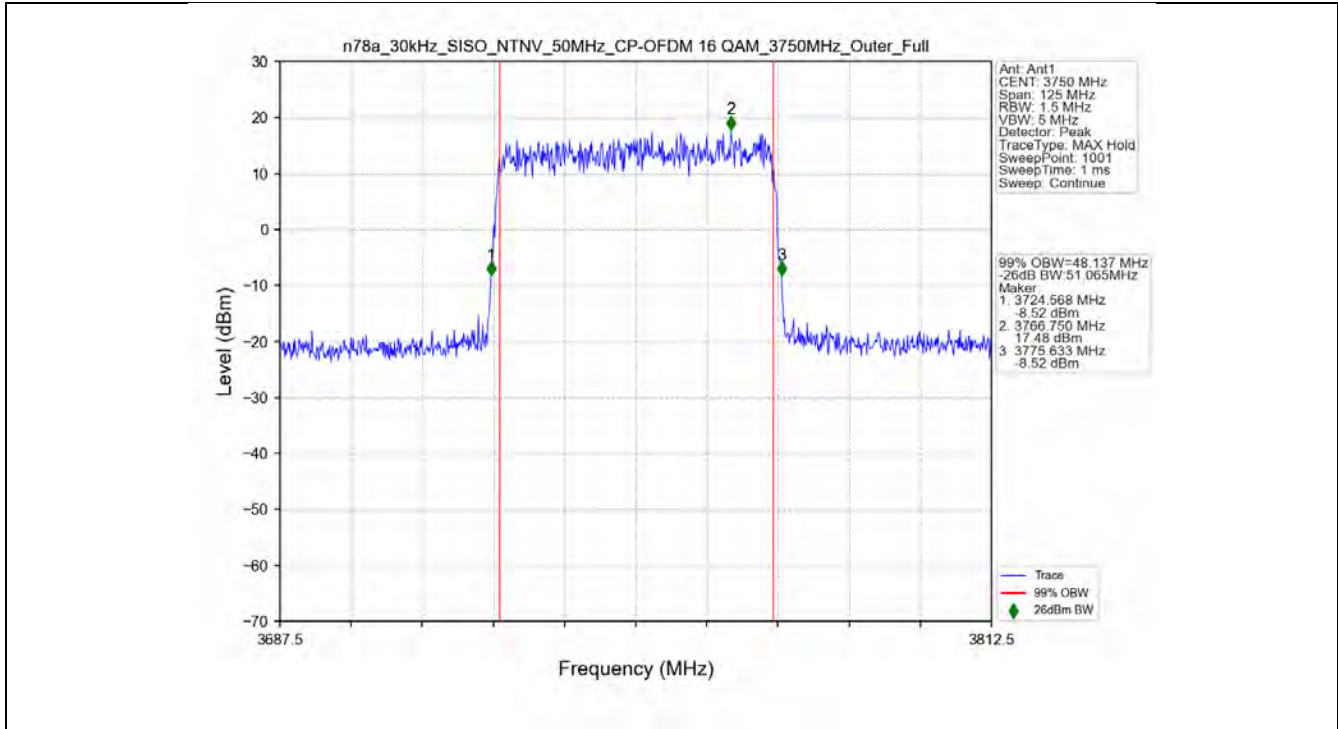


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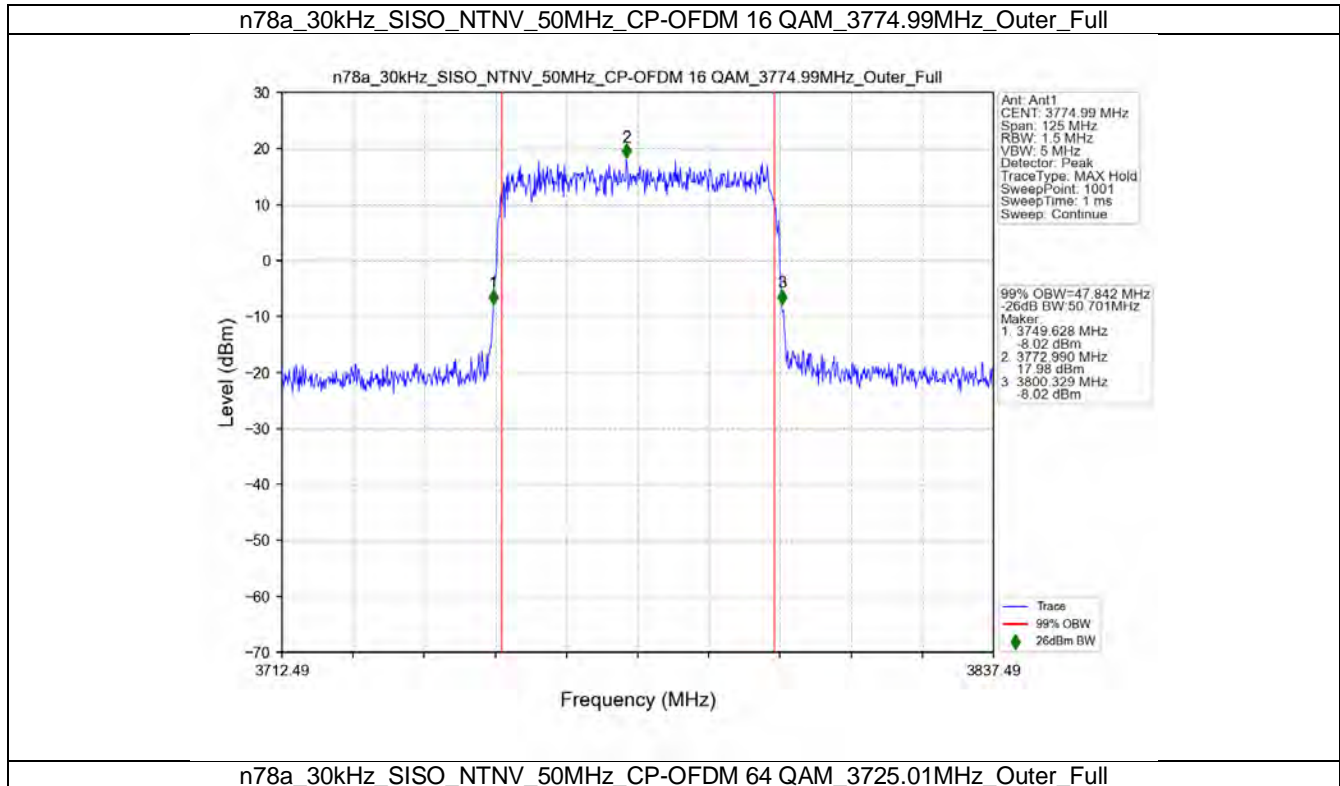


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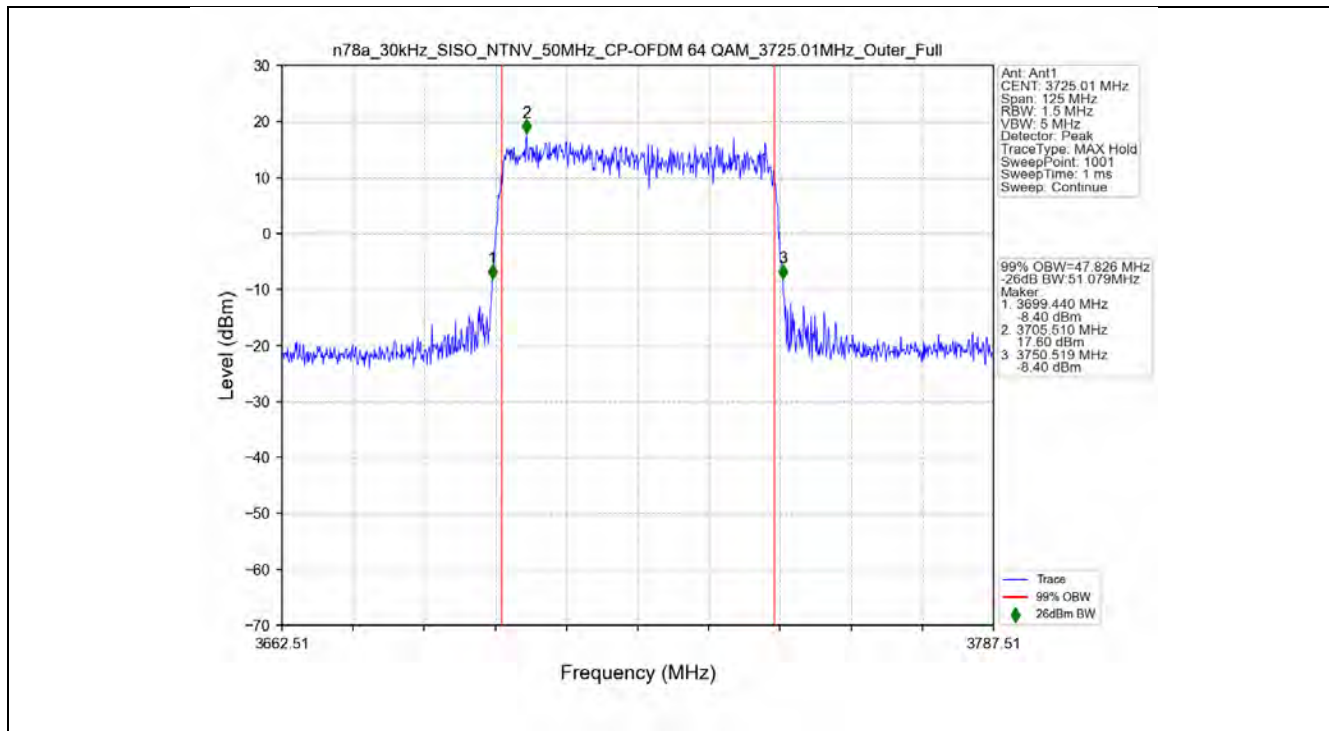
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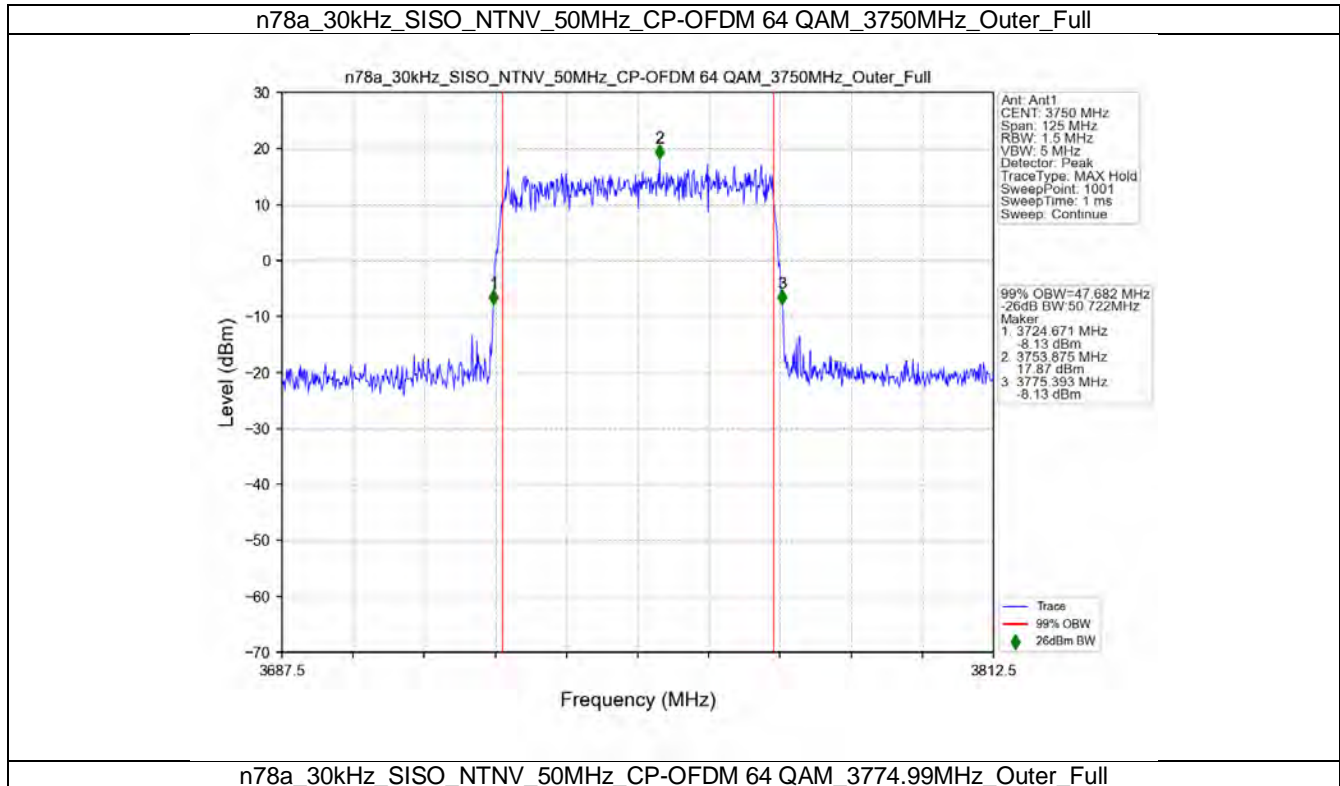


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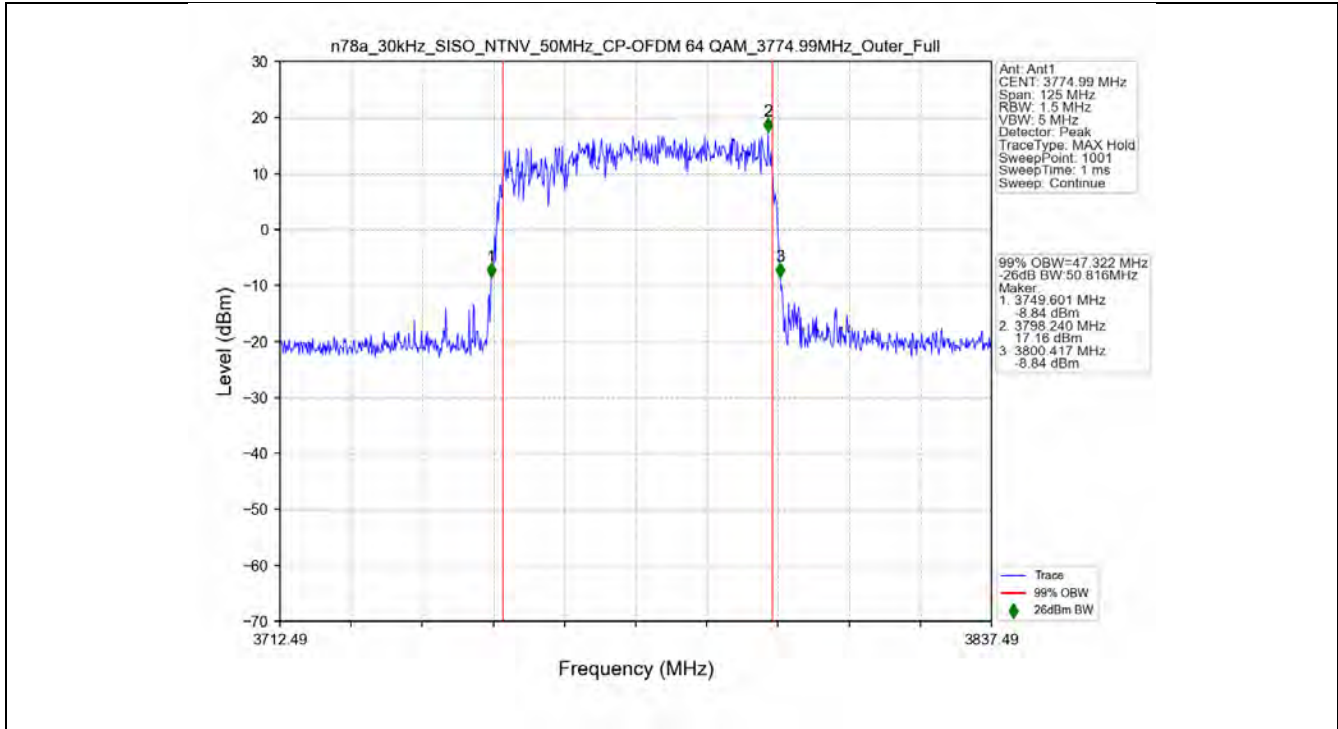


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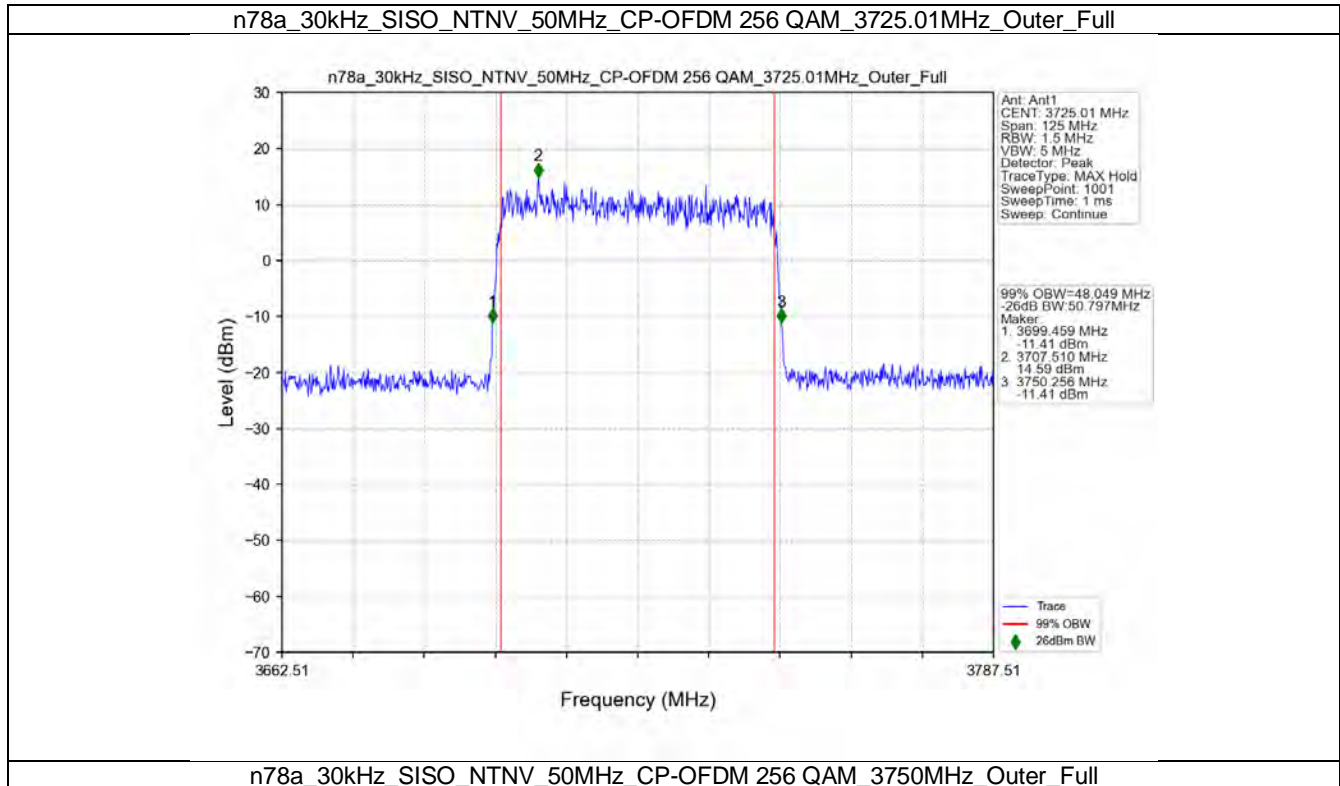


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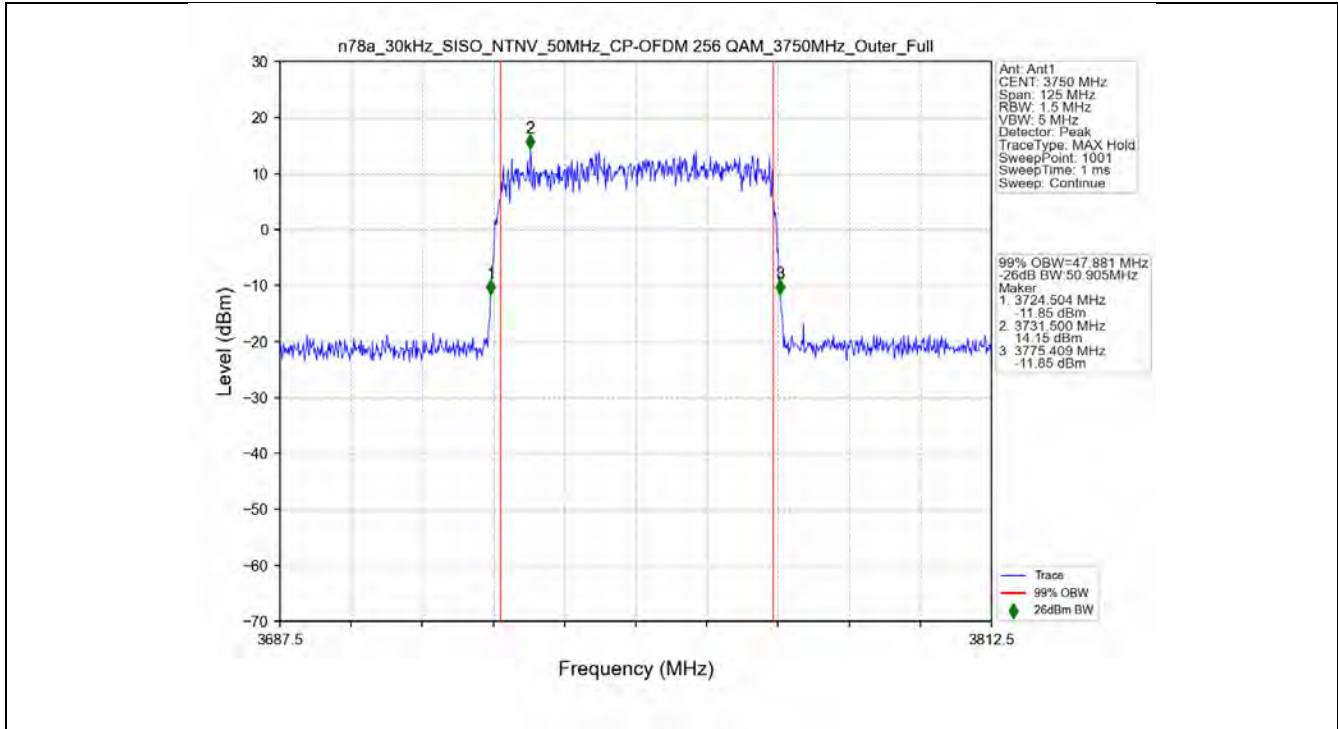


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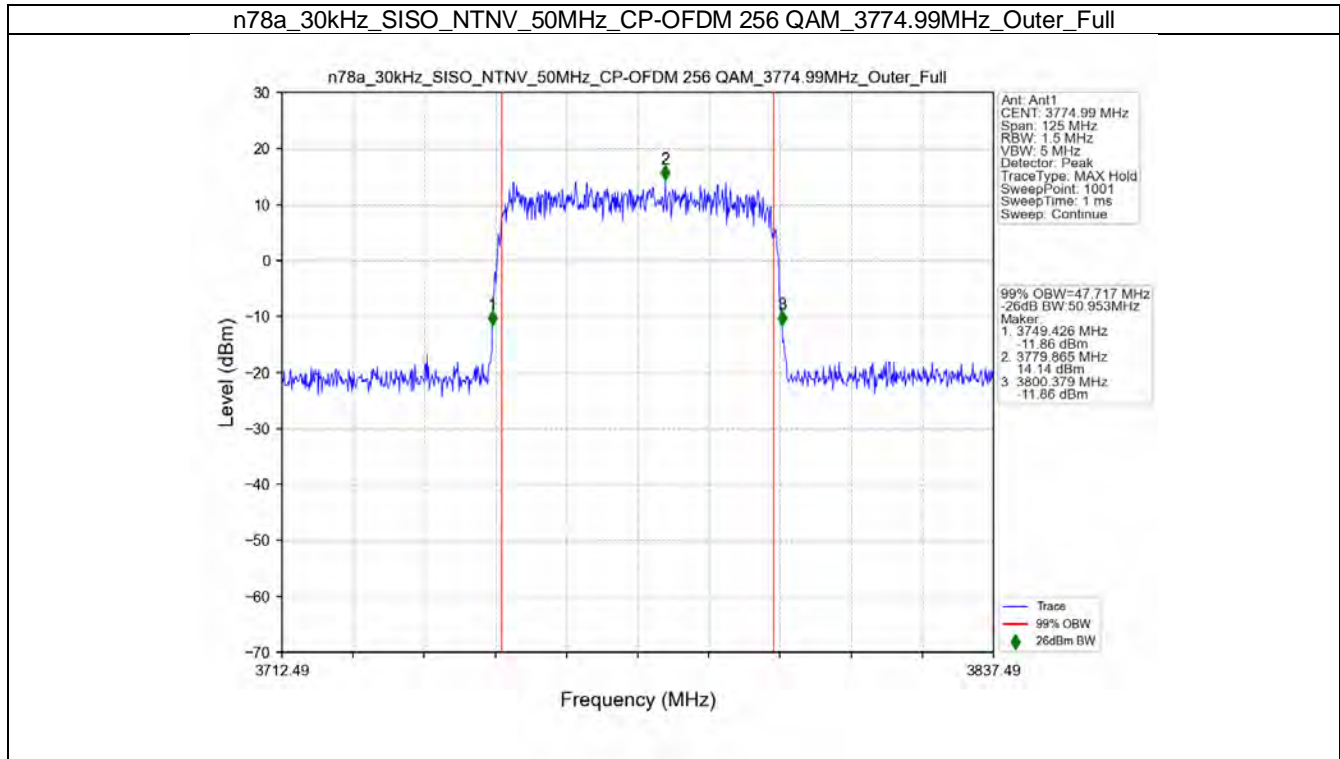


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3.5 30k_SISO_60MHz_NTNV

3.5.1 Test Result

| 5G NR n78a SCS=30kHz SISO 60MHz NTN | | | | | | |
|-------------------------------------|-----------------|---------------|---------------------|----------------------|-------------|---------|
| Modulation | Frequency (MHz) | RB Allocation | 99% Bandwidth (MHz) | 26dB Bandwidth (MHz) | Limit (MHz) | Verdict |
| DFT-s-OFDM PI/2 BPSK | 3730.02 | Outer_Full | 58.16 | 61.83 | / | Pass |
| | 3750 | Outer_Full | 58.53 | 62.23 | / | Pass |
| | 3769.98 | Outer_Full | 57.96 | 61.42 | / | Pass |
| DFT-s-OFDM QPSK | 3730.02 | Outer_Full | 58.72 | 62.29 | / | Pass |
| | 3750 | Outer_Full | 58.45 | 62.42 | / | Pass |
| | 3769.98 | Outer_Full | 58.25 | 62.12 | / | Pass |
| DFT-s-OFDM 16 QAM | 3730.02 | Outer_Full | 58.48 | 62.10 | / | Pass |
| | 3750 | Outer_Full | 58.34 | 61.82 | / | Pass |
| | 3769.98 | Outer_Full | 57.77 | 61.66 | / | Pass |
| DFT-s-OFDM 64 QAM | 3730.02 | Outer_Full | 58.35 | 62.00 | / | Pass |
| | 3750 | Outer_Full | 58.42 | 62.02 | / | Pass |
| | 3769.98 | Outer_Full | 58.23 | 61.82 | / | Pass |
| DFT-s-OFDM 256 QAM | 3730.02 | Outer_Full | 58.37 | 62.11 | / | Pass |
| | 3750 | Outer_Full | 58.38 | 62.10 | / | Pass |
| | 3769.98 | Outer_Full | 57.98 | 62.07 | / | Pass |
| CP-OFDM QPSK | 3730.02 | Outer_Full | 58.46 | 62.16 | / | Pass |
| | 3750 | Outer_Full | 58.17 | 62.02 | / | Pass |
| | 3769.98 | Outer_Full | 58.22 | 61.90 | / | Pass |
| CP-OFDM 16 QAM | 3730.02 | Outer_Full | 58.37 | 61.86 | / | Pass |
| | 3750 | Outer_Full | 58.13 | 62.03 | / | Pass |
| | 3769.98 | Outer_Full | 58.22 | 61.83 | / | Pass |
| CP-OFDM 64 QAM | 3730.02 | Outer_Full | 58.24 | 62.11 | / | Pass |
| | 3750 | Outer_Full | 58.31 | 62.05 | / | Pass |
| | 3769.98 | Outer_Full | 58.00 | 62.10 | / | Pass |
| CP-OFDM 256 QAM | 3730.02 | Outer_Full | 58.38 | 62.17 | / | Pass |
| | 3750 | Outer_Full | 58.25 | 61.87 | / | Pass |
| | 3769.98 | Outer_Full | 58.19 | 61.73 | / | Pass |



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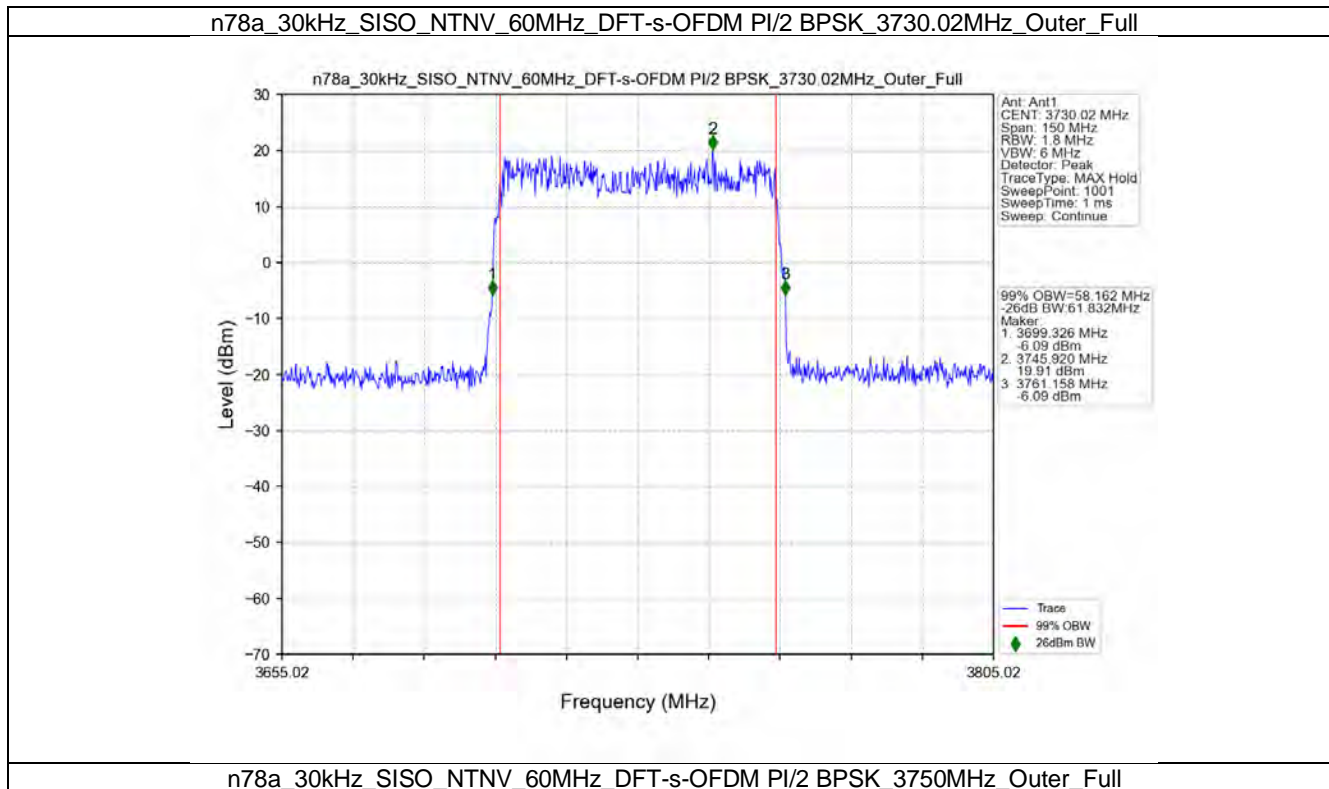
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3.5.2 Test Graph



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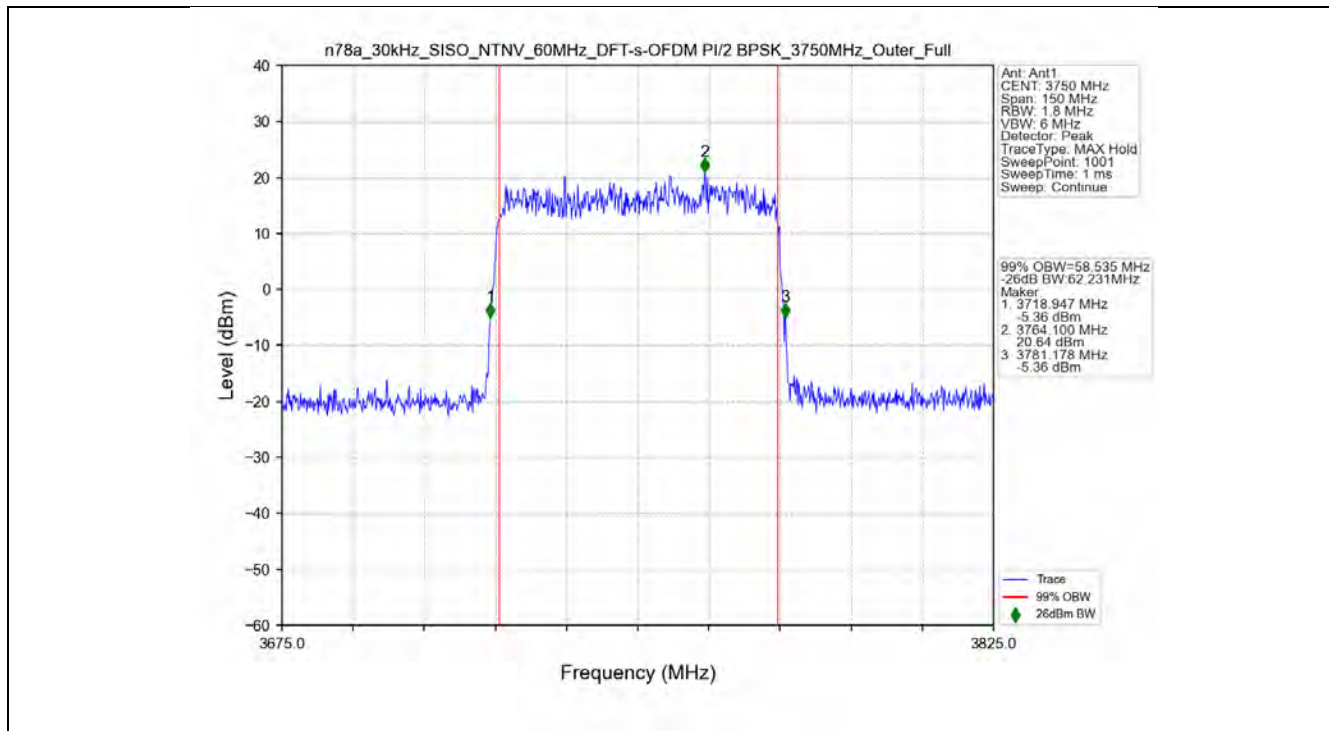
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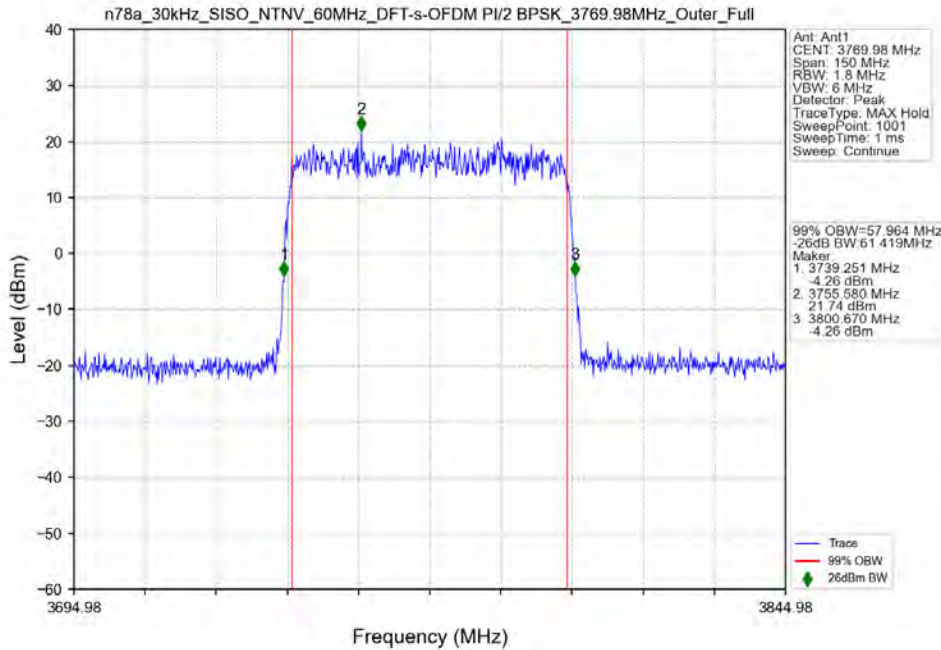
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n78a_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM PI/2 BPSK_3769.98MHz_Outer_Full



n78a_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM QPSK_3730.02MHz_Outer_Full



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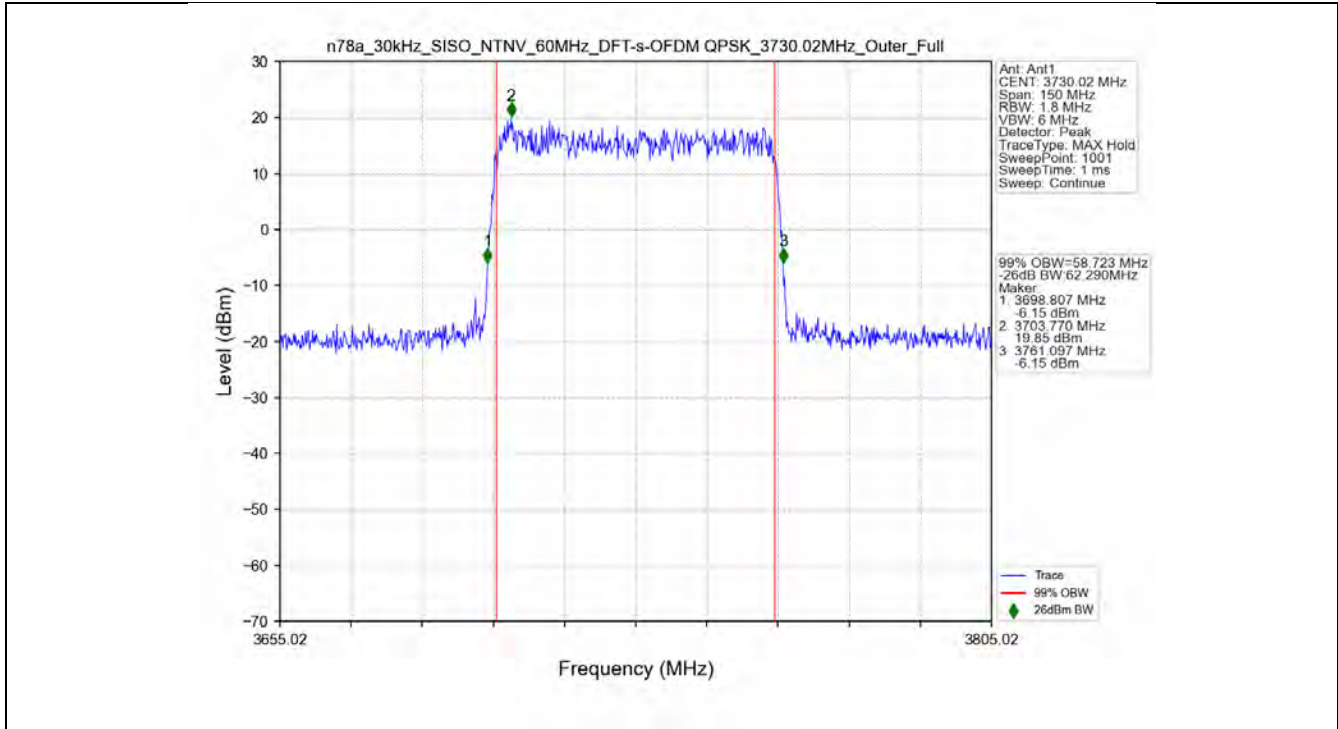


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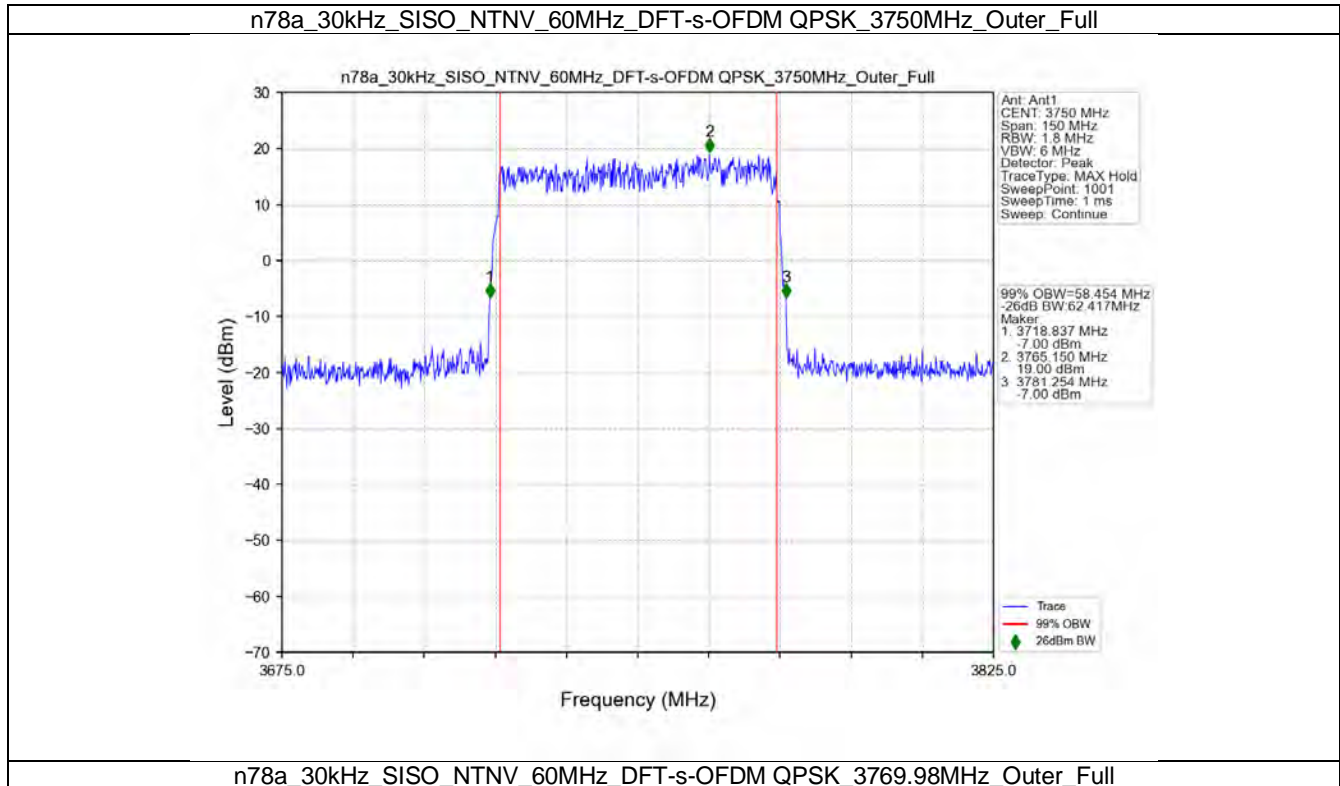


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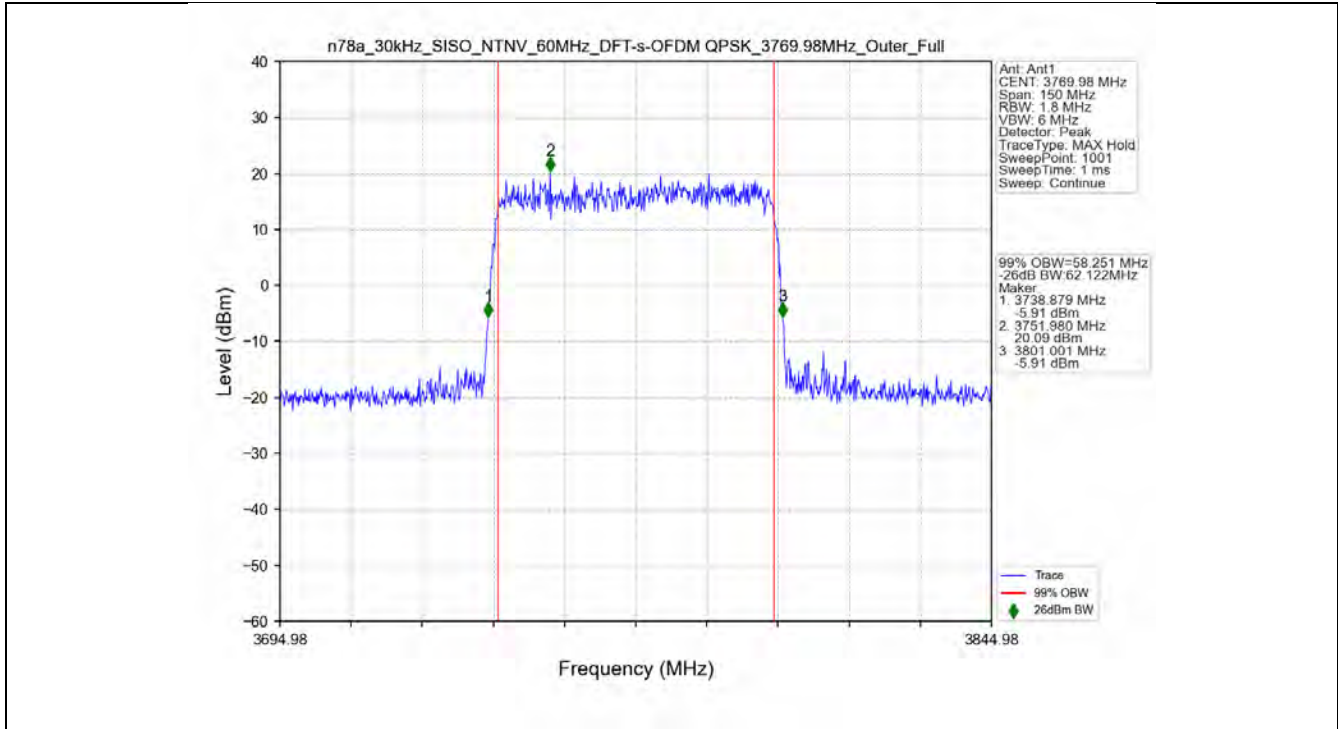


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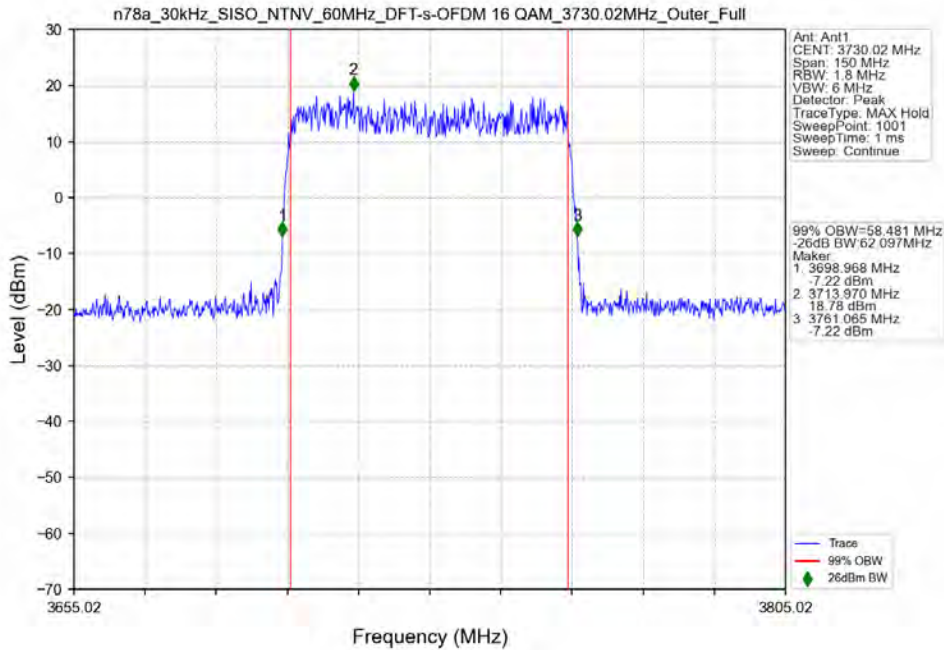
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n78a_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM 16 QAM_3730.02MHz_Outer_Full



n78a_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM 16 QAM_3750MHz_Outer_Full



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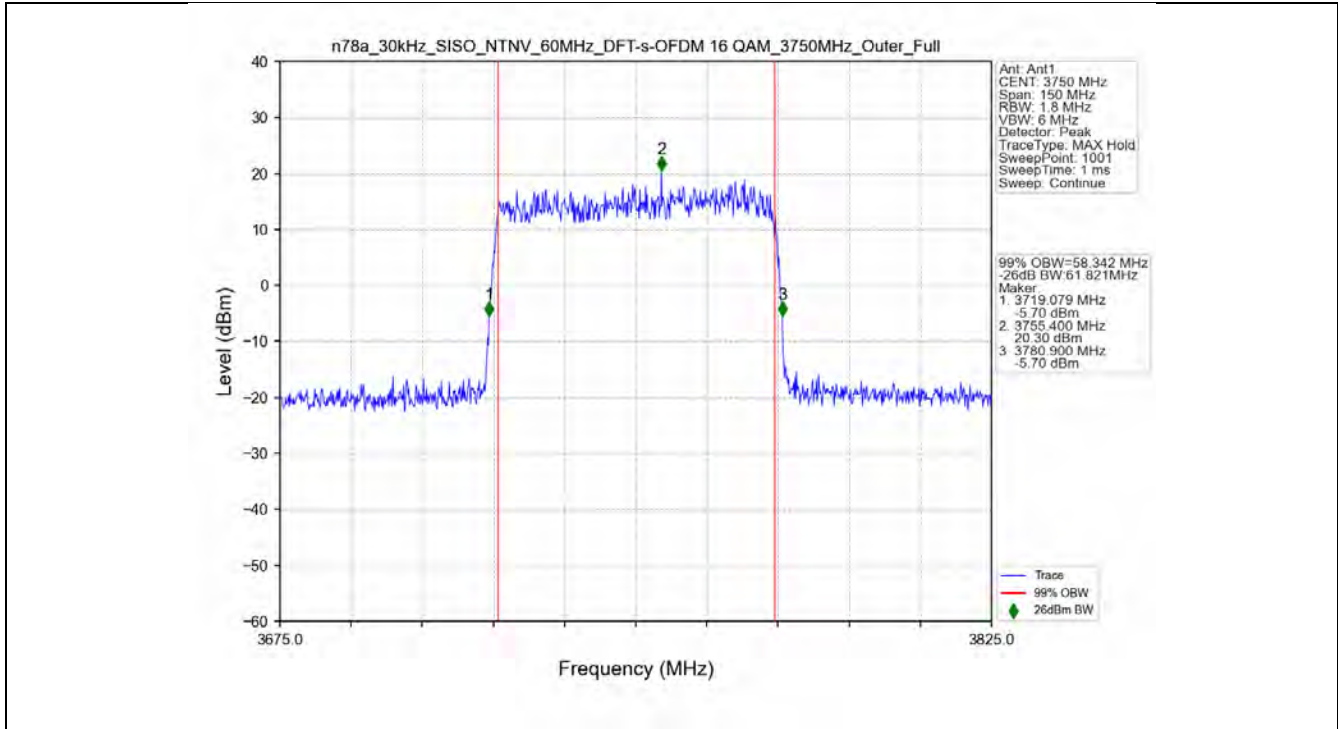


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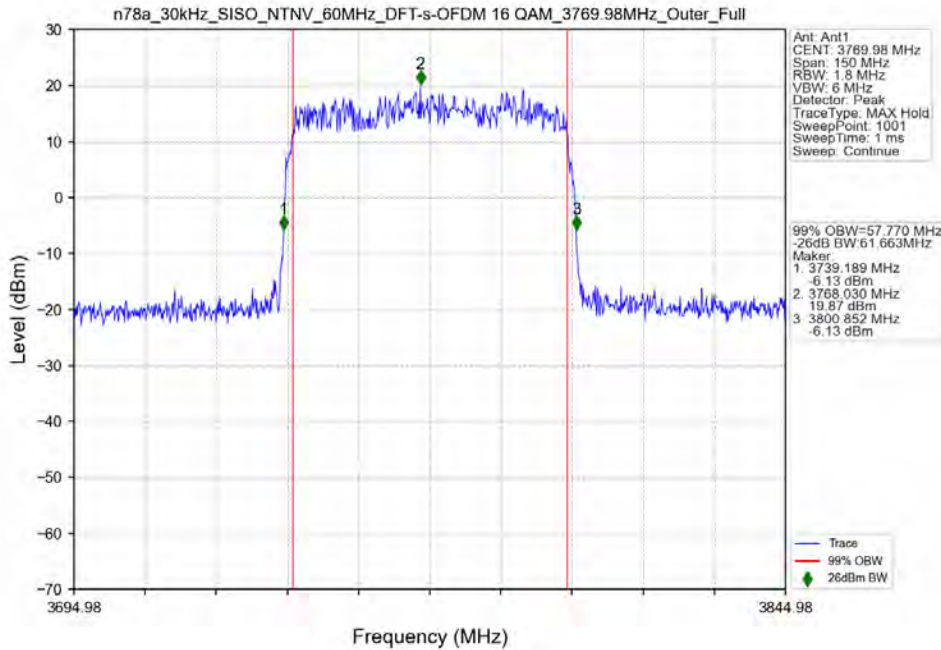
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n78a_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM 16 QAM_3769.98MHz_Outer_Full



n78a_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM 64 QAM_3730.02MHz_Outer_Full



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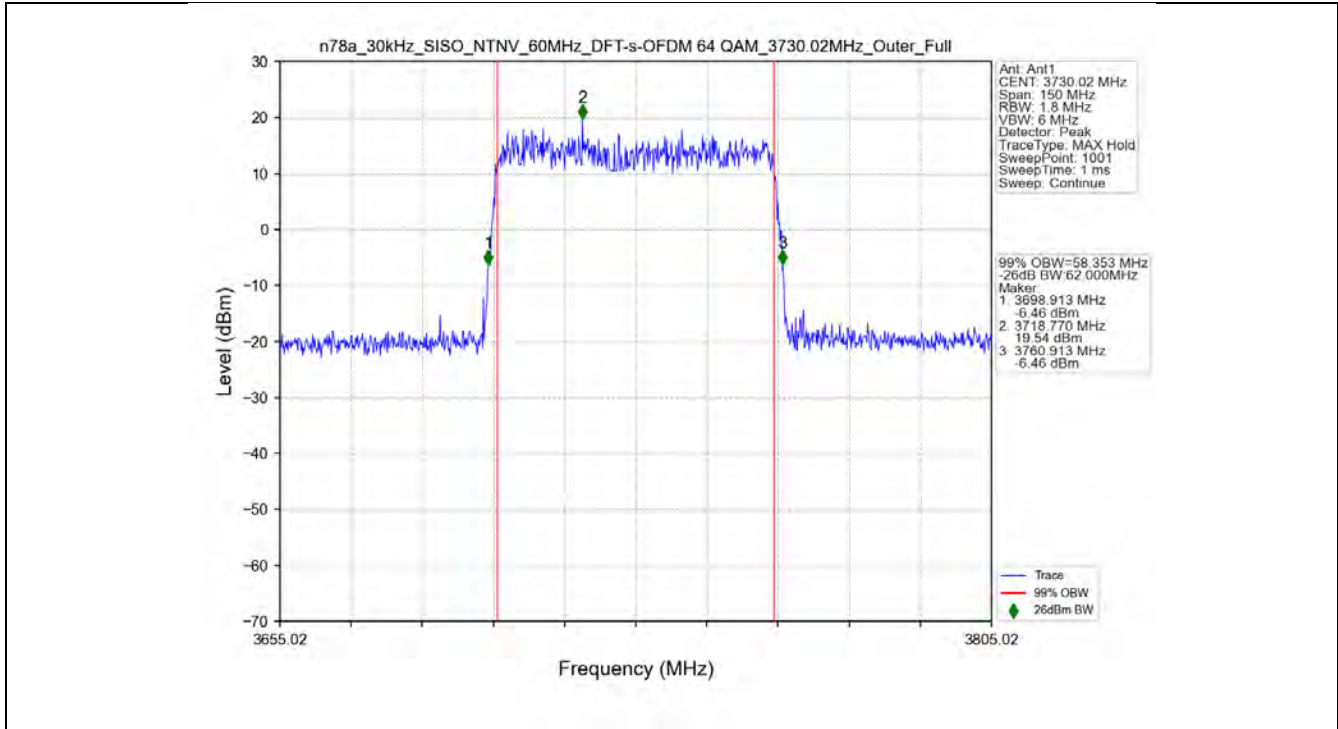


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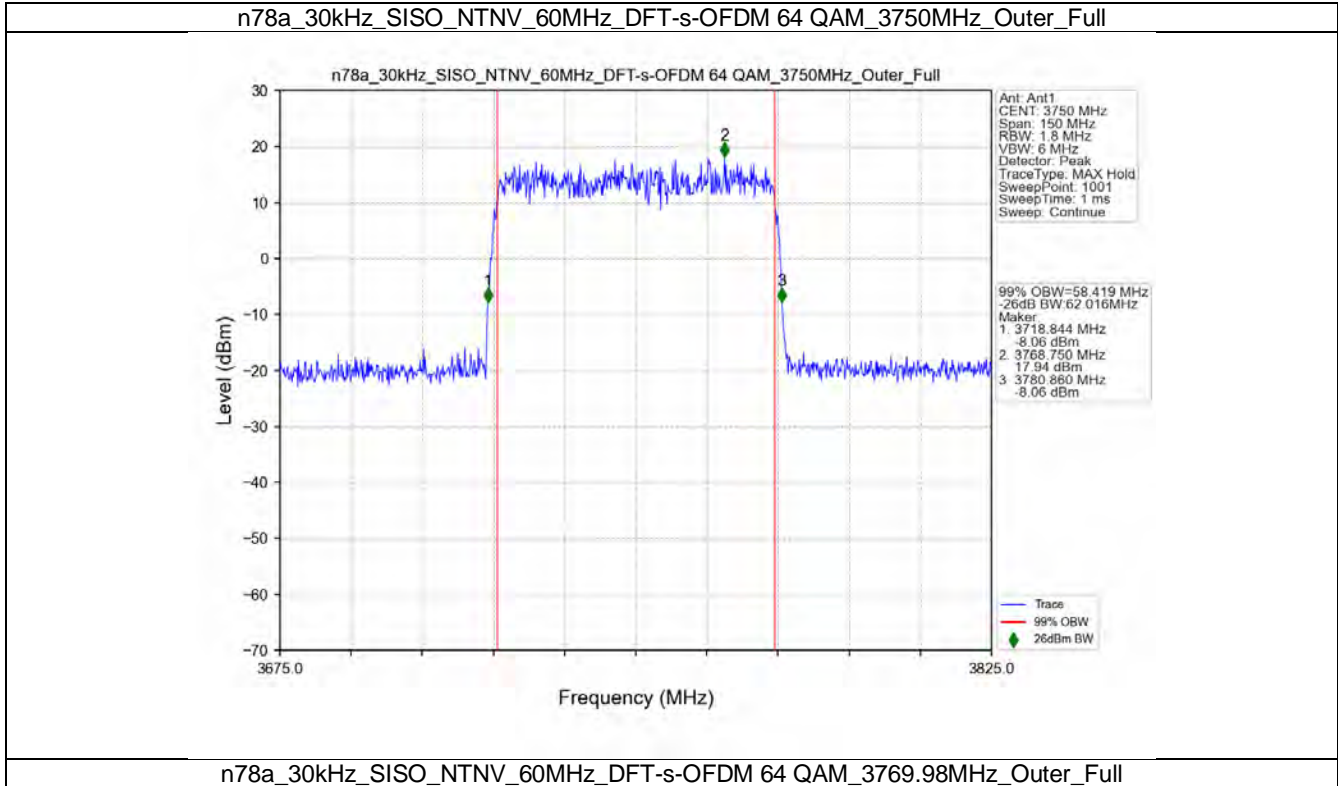


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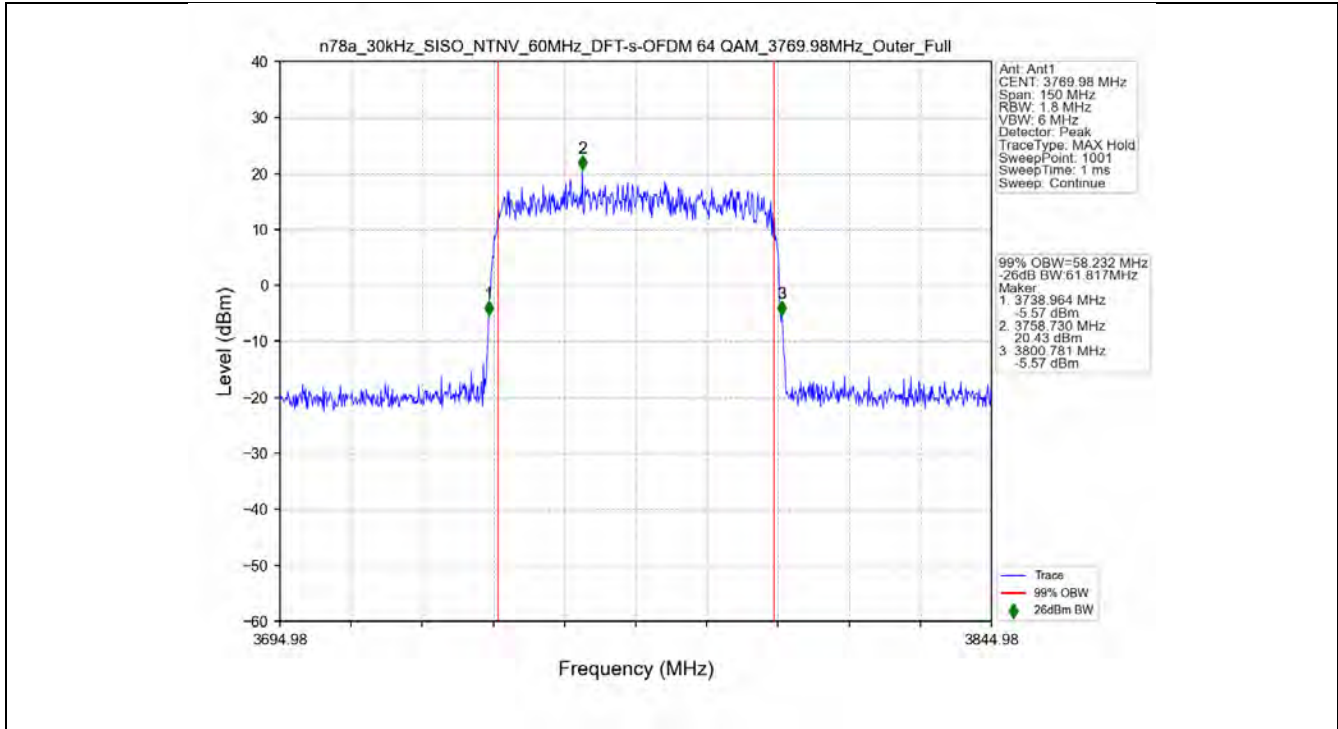


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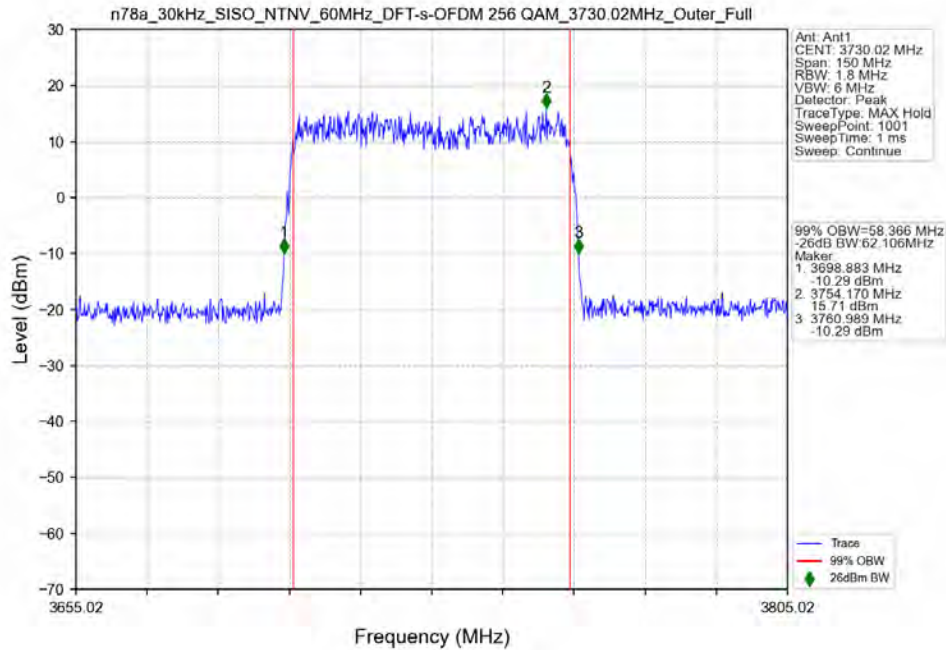
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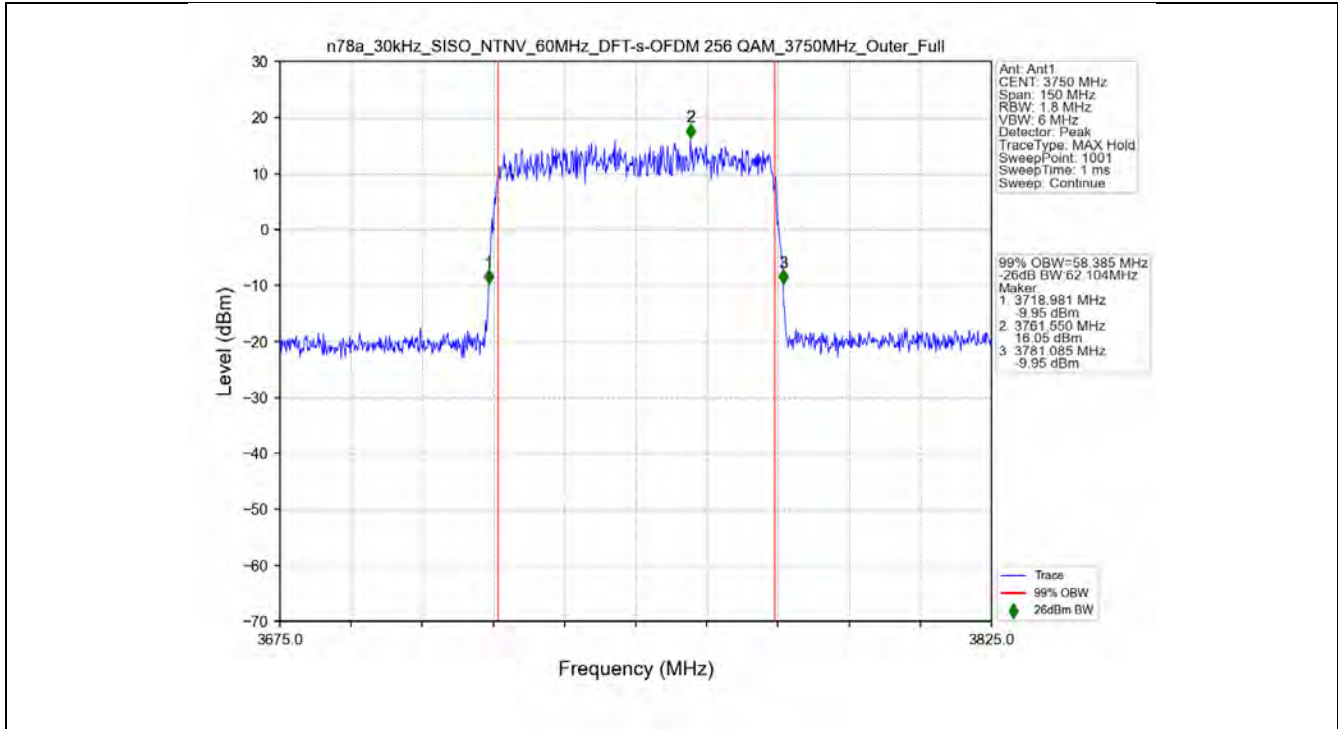


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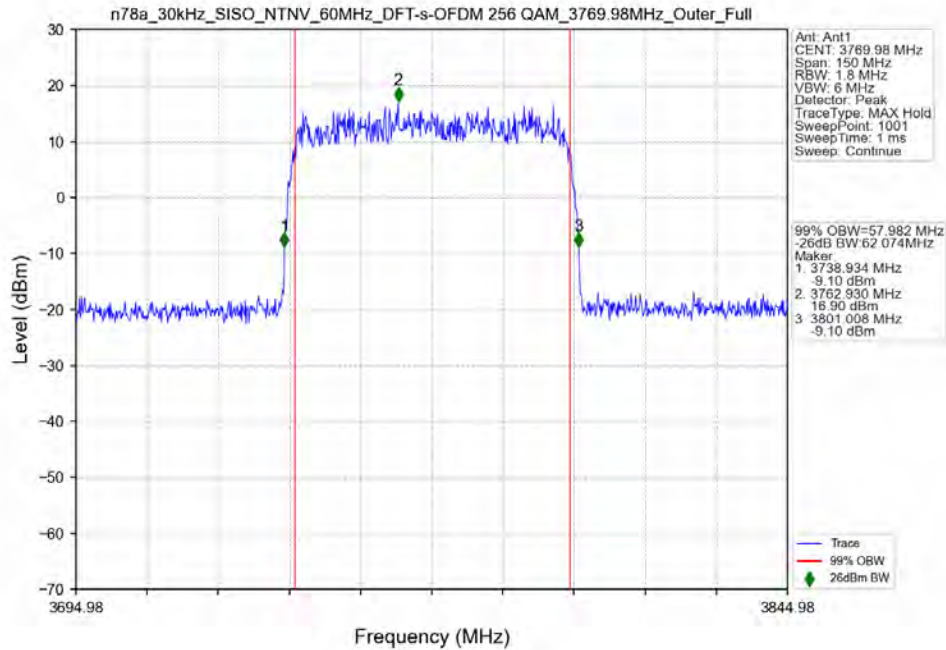
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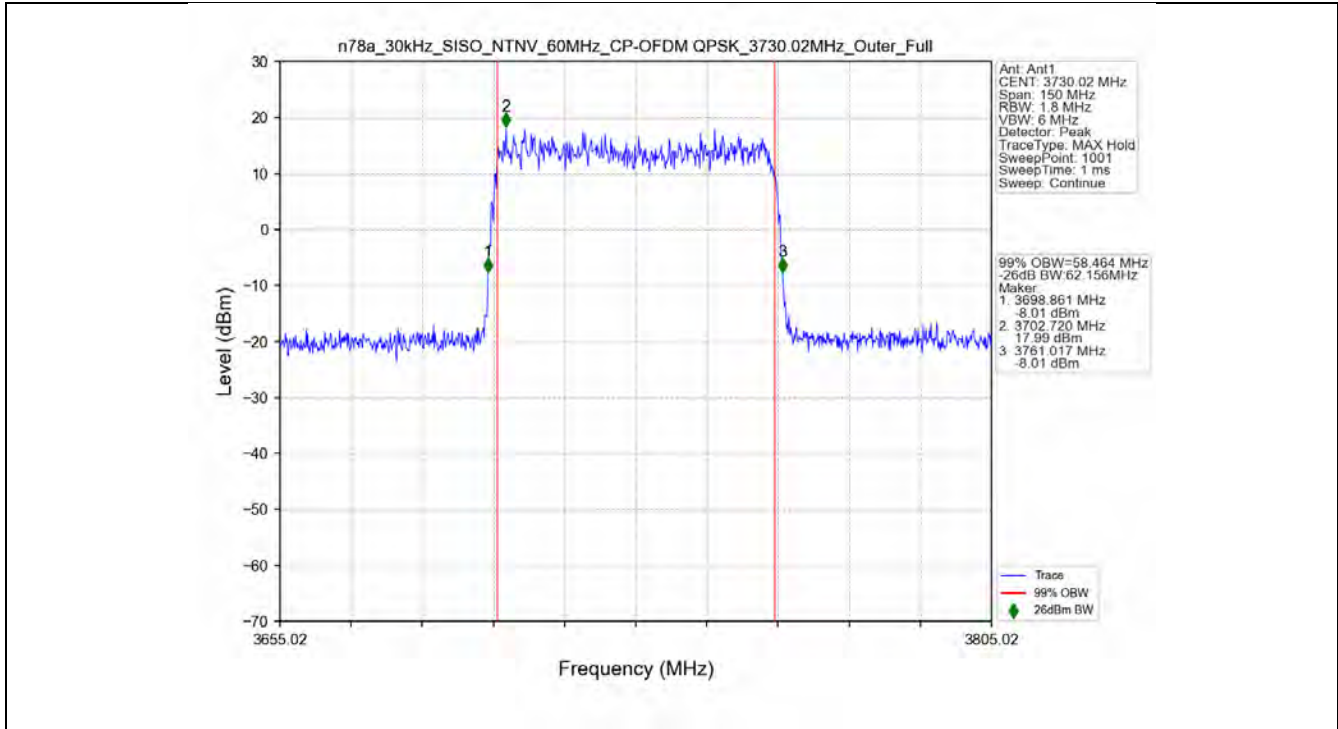


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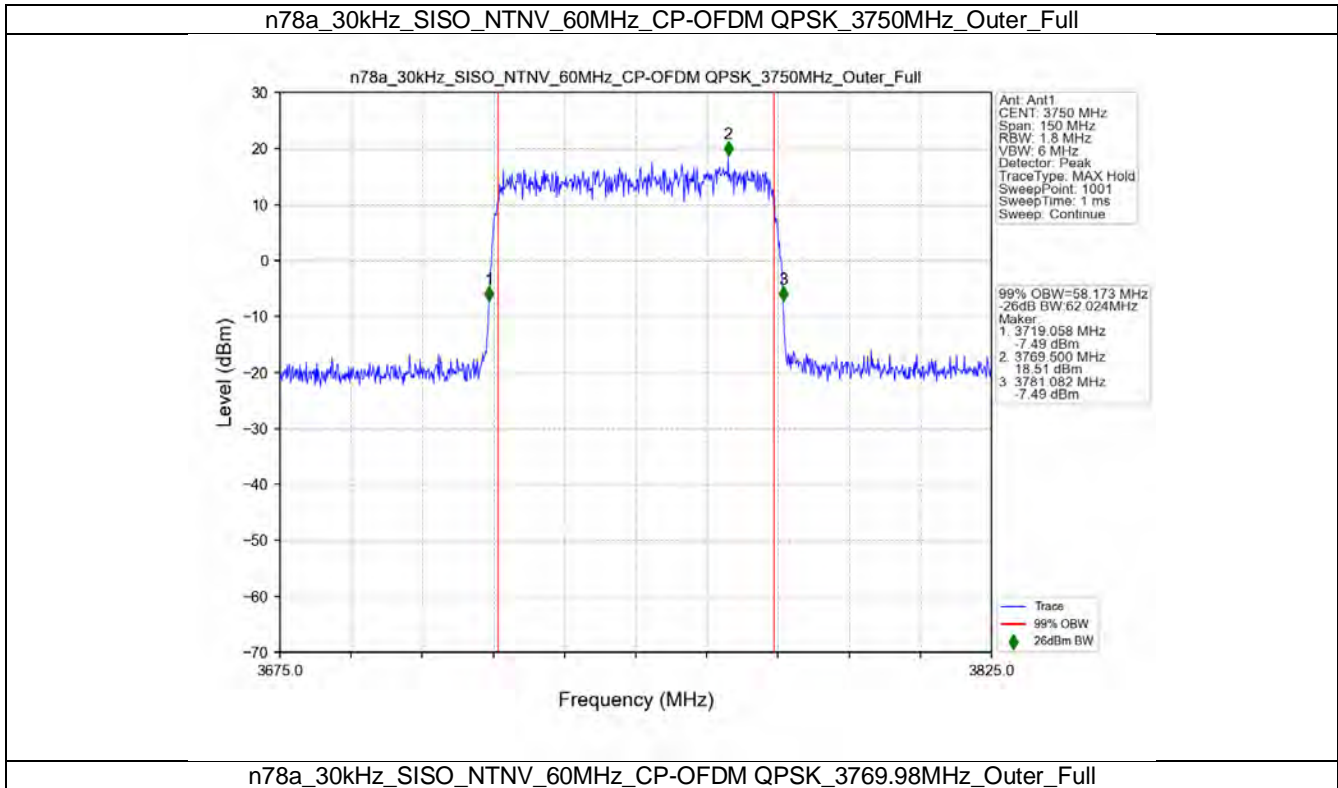


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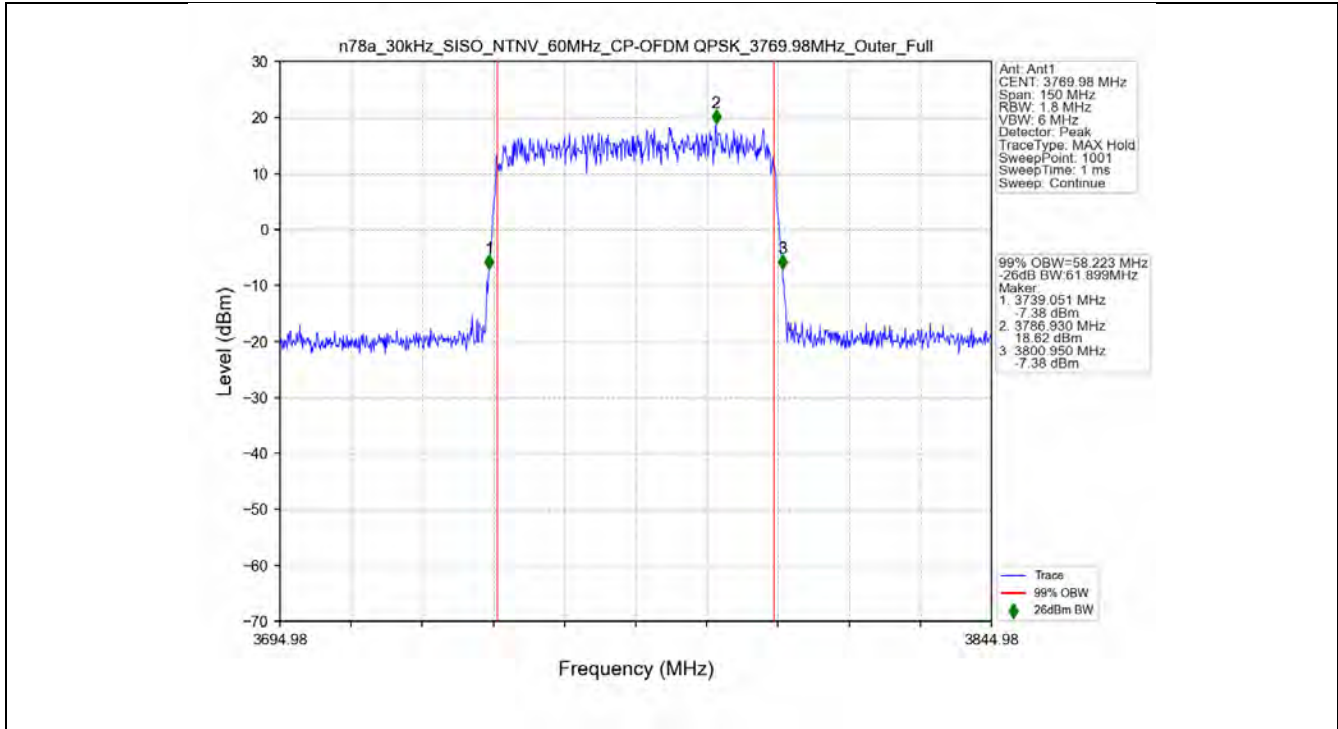


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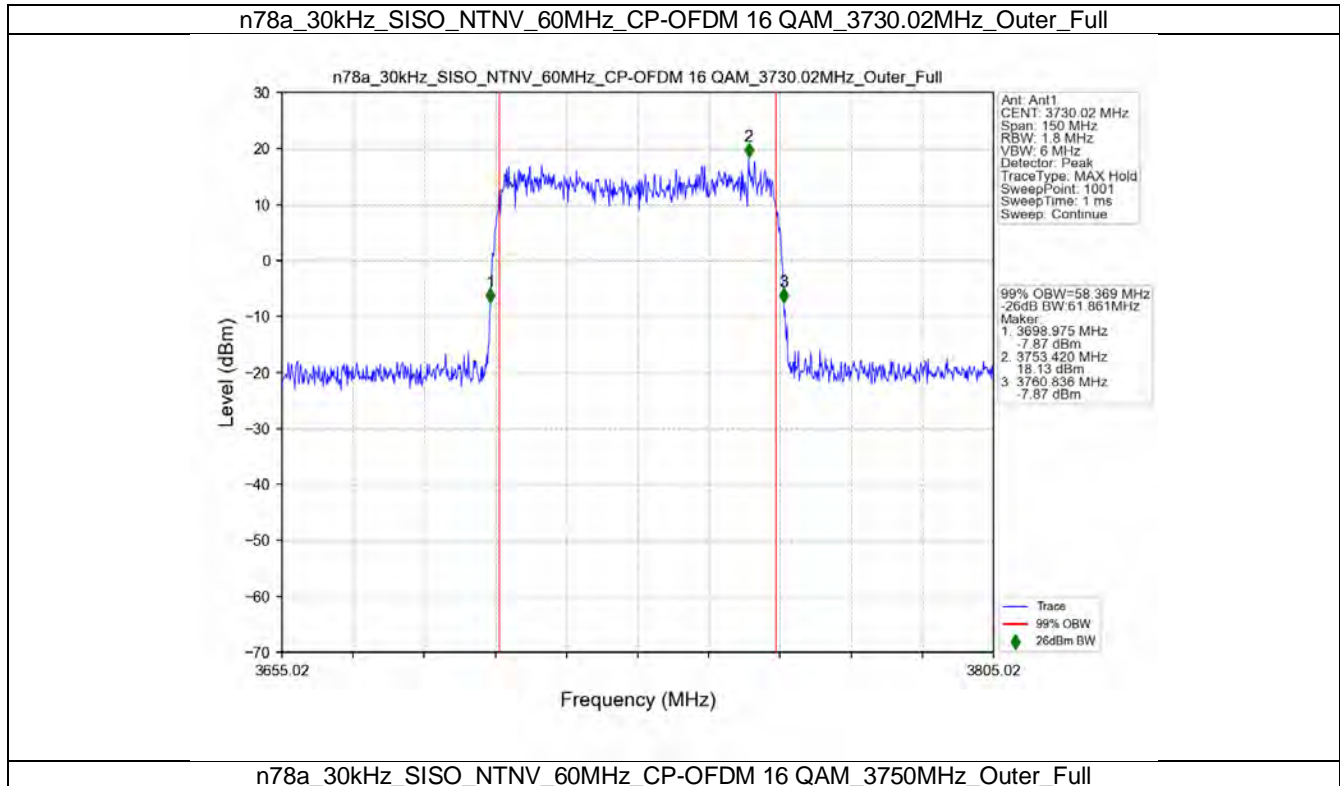


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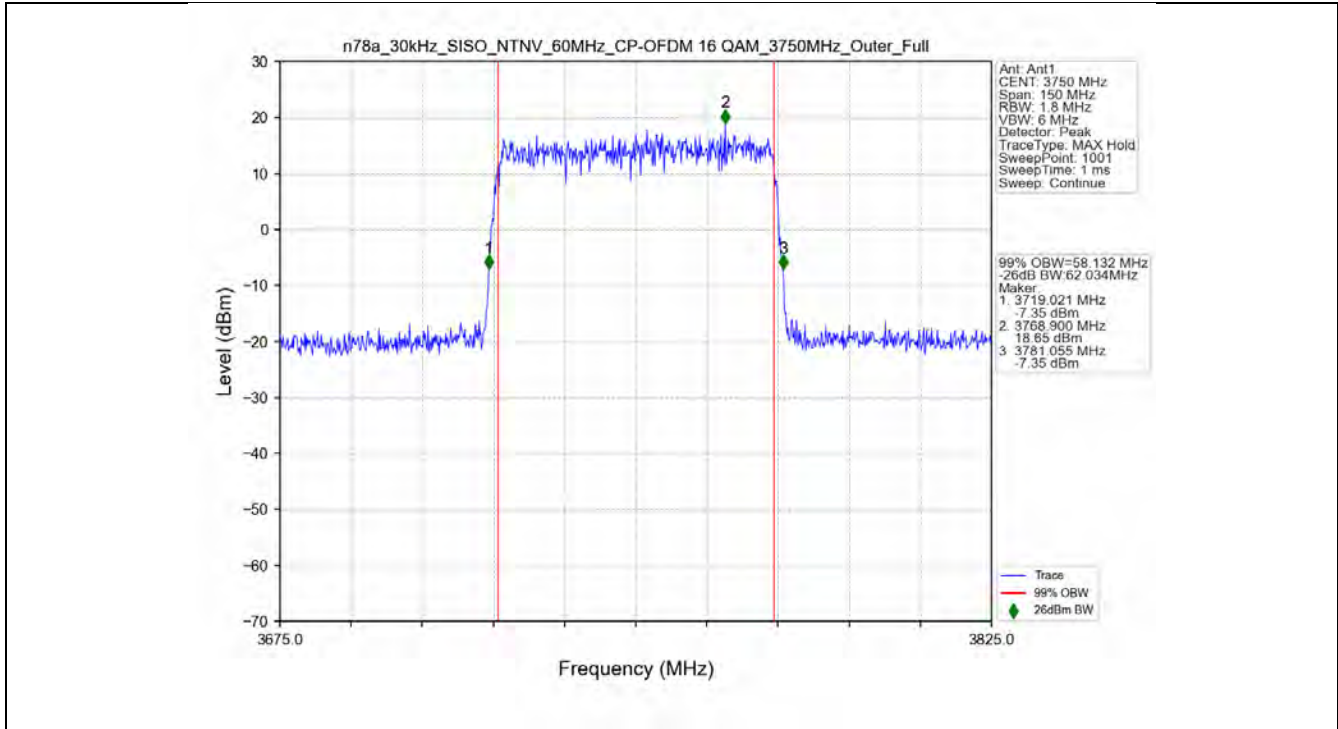


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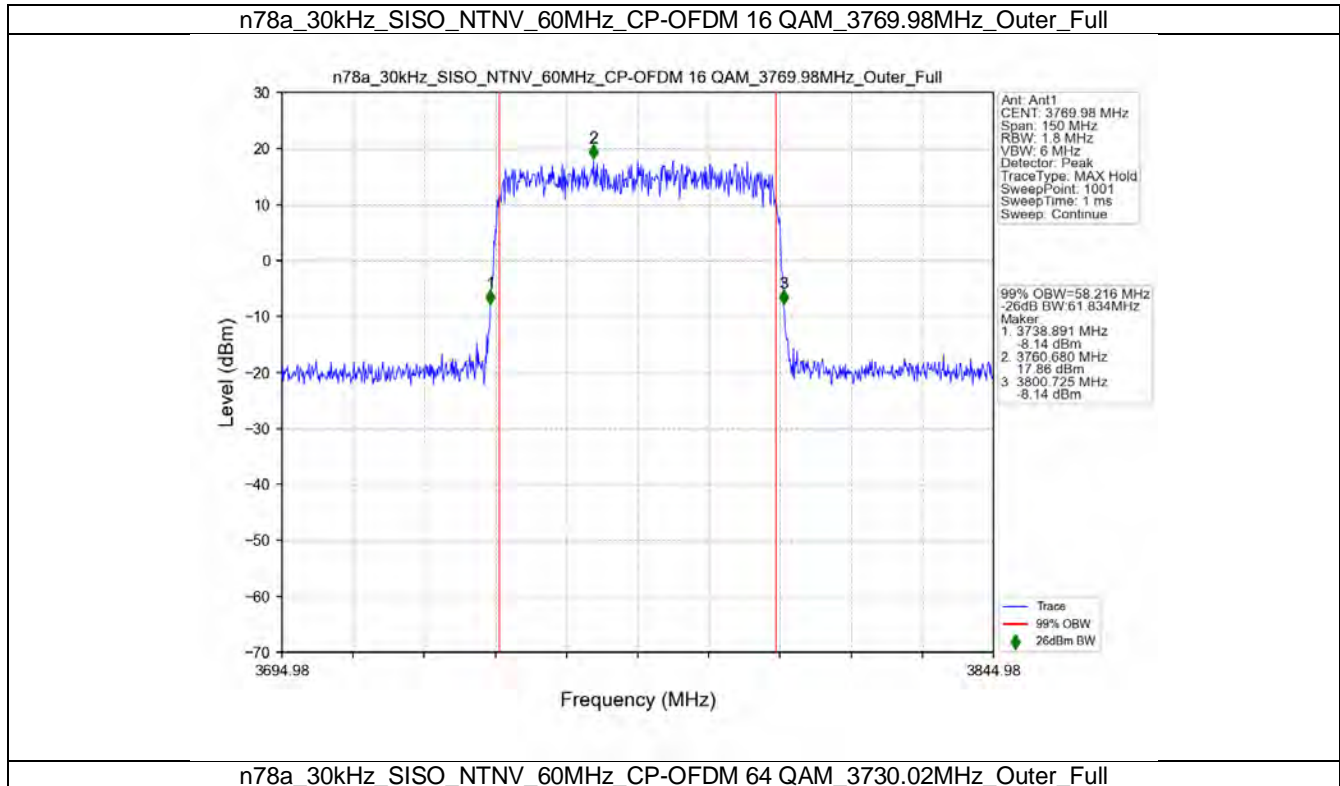


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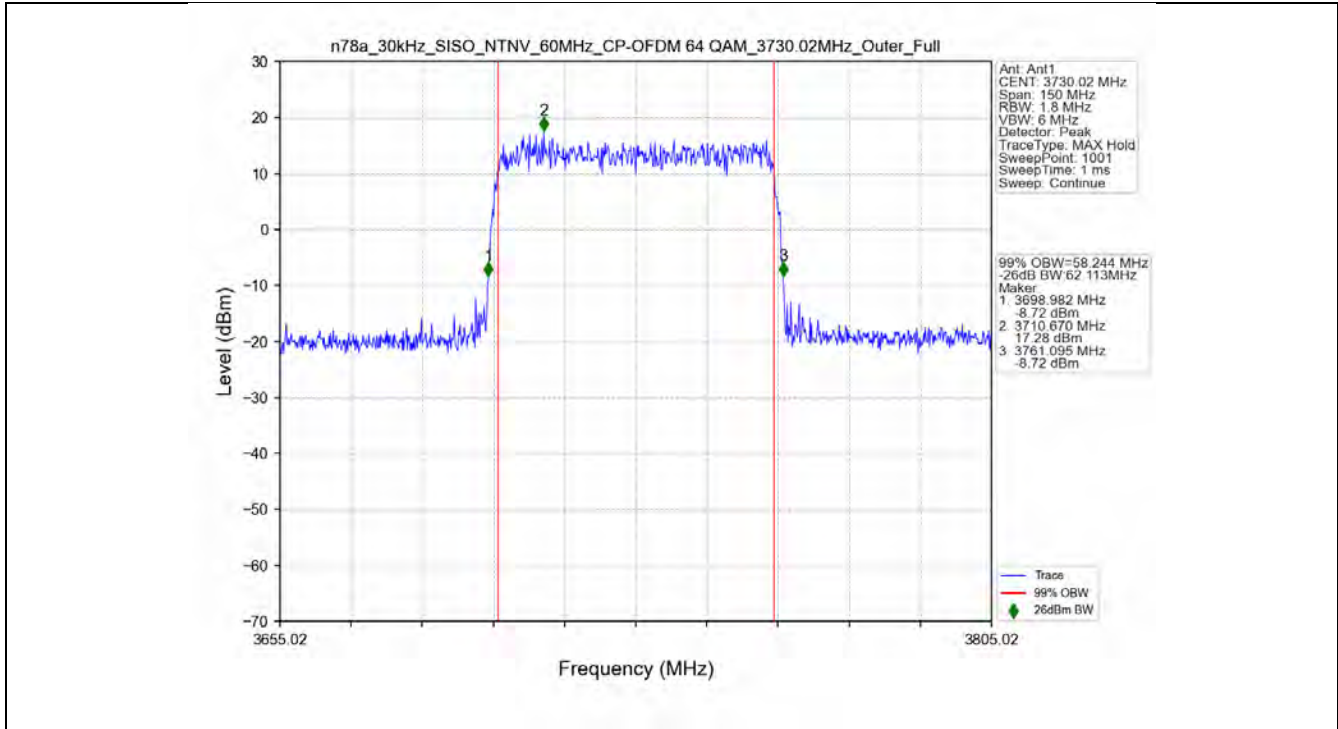


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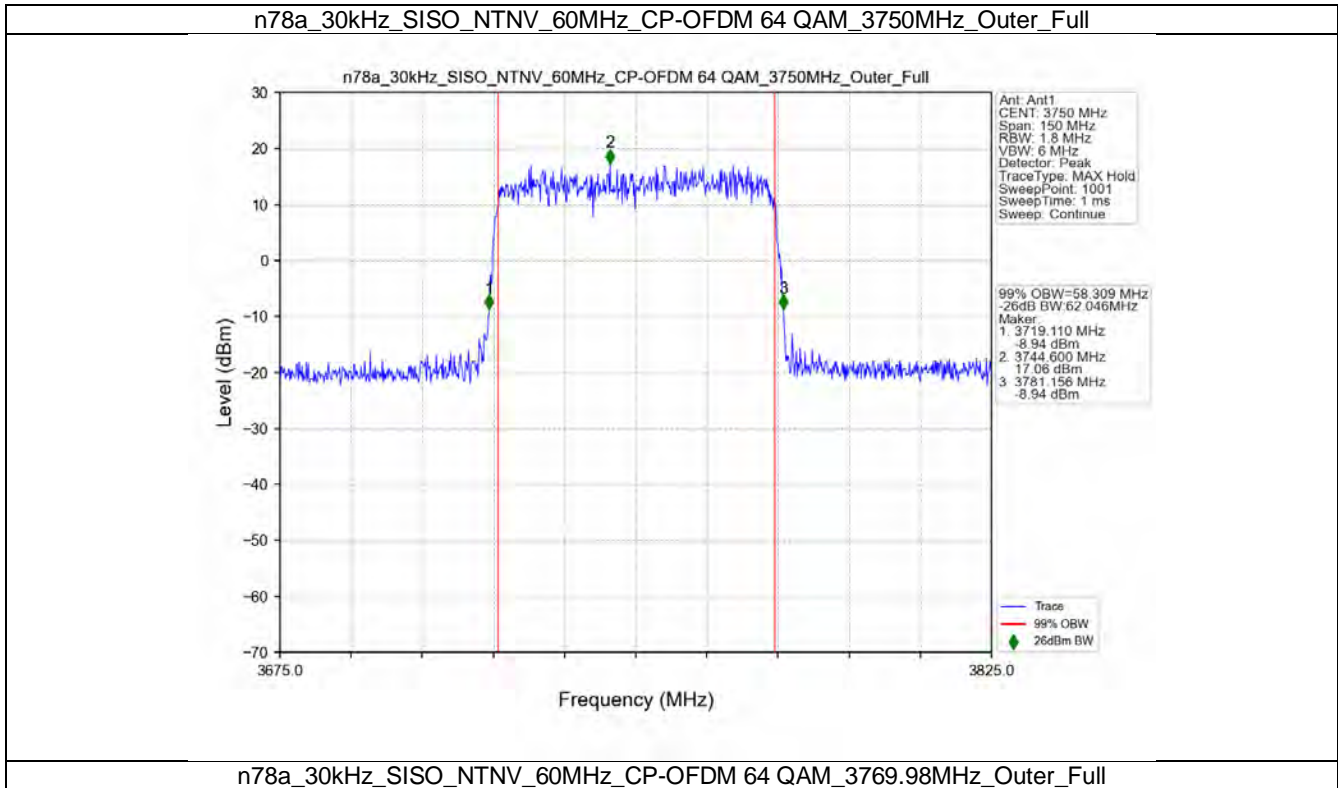


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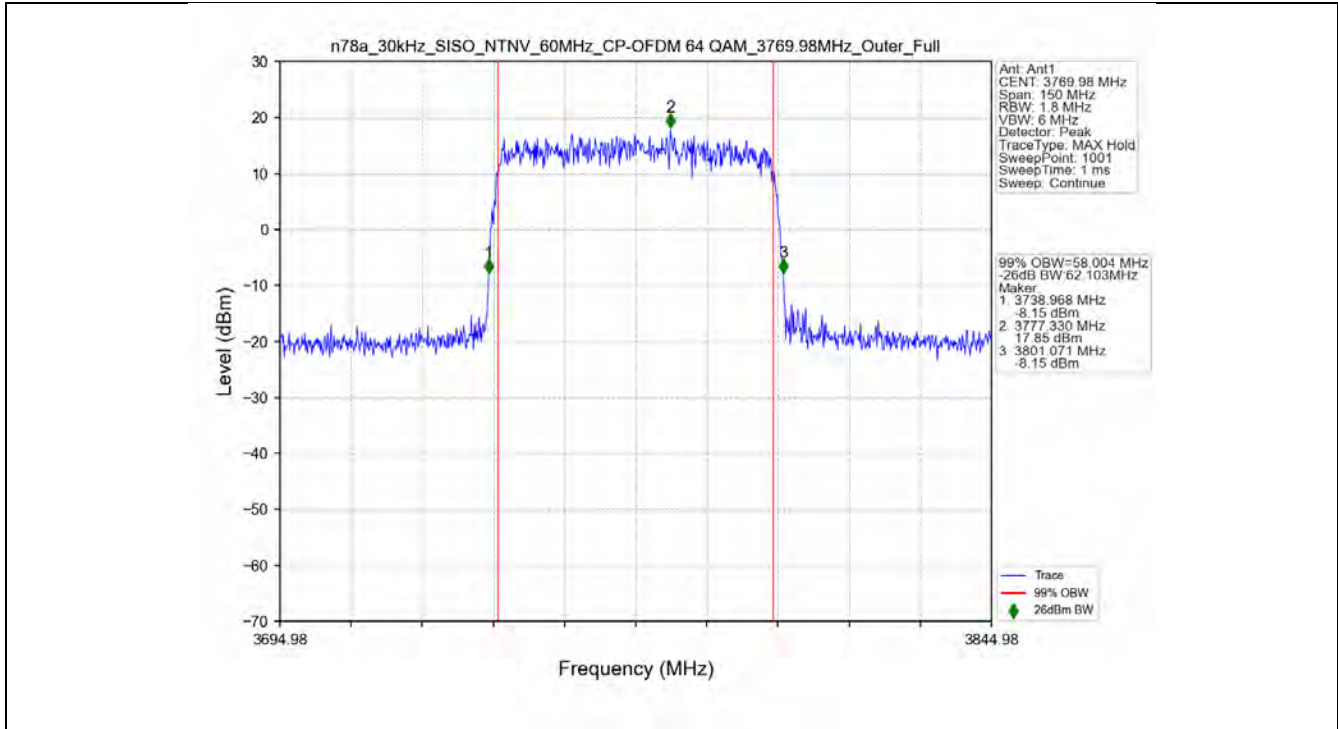


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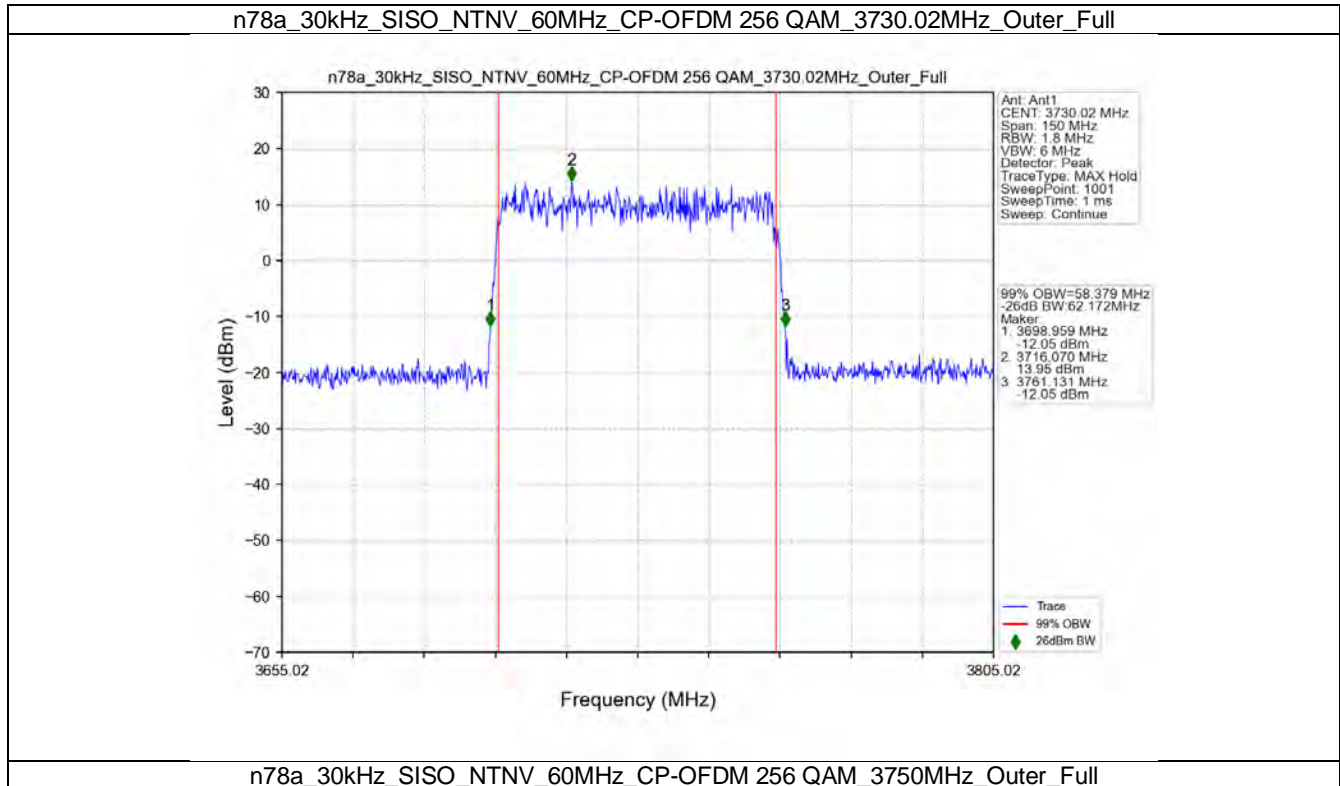


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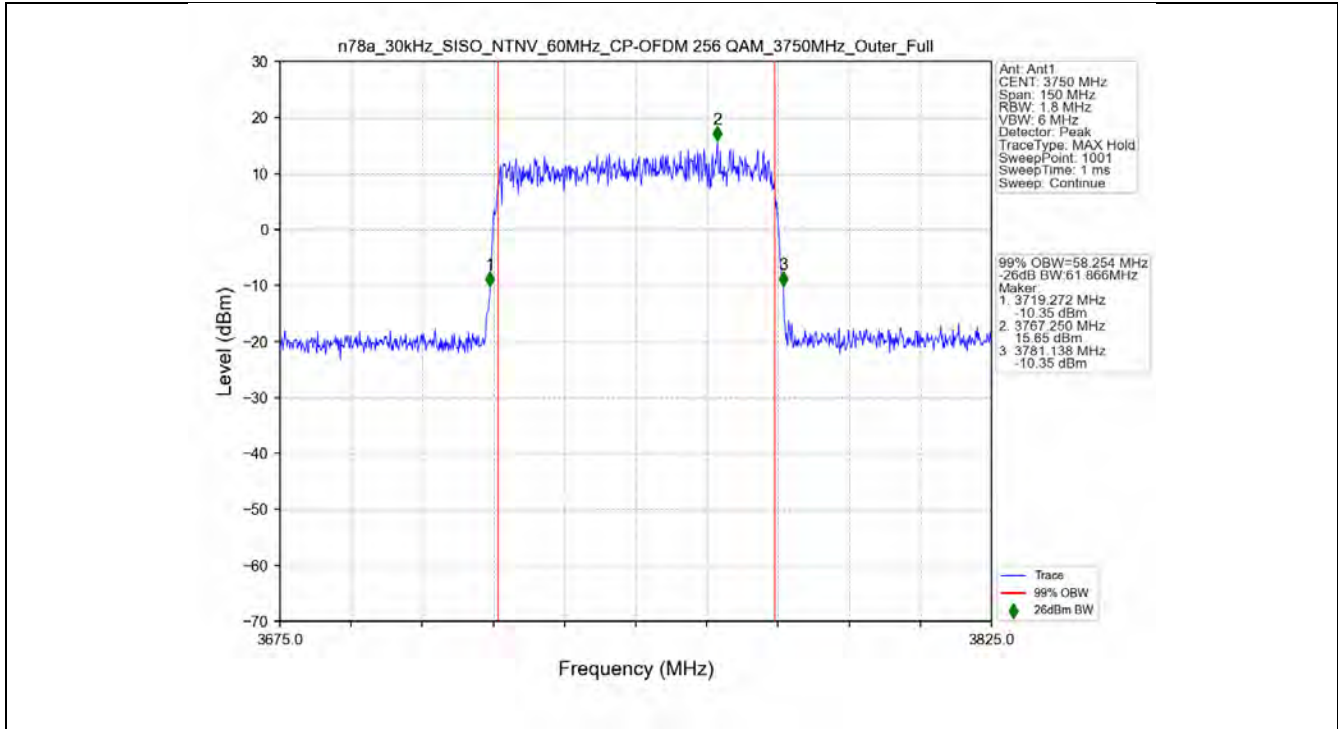


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3.6 30k_SISO_70MHz_NTNV

3.6.1 Test Result

| 5G NR n78a SCS=30kHz SISO 70MHz NNTV | | | | | | |
|--------------------------------------|-----------------|---------------|---------------------|----------------------|-------------|---------|
| Modulation | Frequency (MHz) | RB Allocation | 99% Bandwidth (MHz) | 26dB Bandwidth (MHz) | Limit (MHz) | Verdict |
| DFT-s-OFDM PI/2 BPSK | 3735 | Outer_Full | 64.97 | 69.27 | / | Pass |
| | 3750 | Outer_Full | 64.98 | 69.33 | / | Pass |
| | 3765 | Outer_Full | 64.81 | 69.27 | / | Pass |
| DFT-s-OFDM QPSK | 3735 | Outer_Full | 65.35 | 69.35 | / | Pass |
| | 3750 | Outer_Full | 64.81 | 69.26 | / | Pass |
| | 3765 | Outer_Full | 64.51 | 69.22 | / | Pass |
| DFT-s-OFDM 16 QAM | 3735 | Outer_Full | 65.18 | 69.50 | / | Pass |
| | 3750 | Outer_Full | 64.76 | 68.92 | / | Pass |
| | 3765 | Outer_Full | 64.70 | 69.14 | / | Pass |
| DFT-s-OFDM 64 QAM | 3735 | Outer_Full | 65.03 | 69.65 | / | Pass |
| | 3750 | Outer_Full | 65.16 | 69.33 | / | Pass |
| | 3765 | Outer_Full | 64.60 | 69.24 | / | Pass |
| DFT-s-OFDM 256 QAM | 3735 | Outer_Full | 64.73 | 69.27 | / | Pass |
| | 3750 | Outer_Full | 65.03 | 69.07 | / | Pass |
| | 3765 | Outer_Full | 64.45 | 69.12 | / | Pass |
| CP-OFDM QPSK | 3735 | Outer_Full | 67.99 | 72.75 | / | Pass |
| | 3750 | Outer_Full | 68.01 | 72.51 | / | Pass |
| | 3765 | Outer_Full | 67.89 | 72.88 | / | Pass |
| CP-OFDM 16 QAM | 3735 | Outer_Full | 68.06 | 73.15 | / | Pass |
| | 3750 | Outer_Full | 68.08 | 72.55 | / | Pass |
| | 3765 | Outer_Full | 68.03 | 72.16 | / | Pass |
| CP-OFDM 64 QAM | 3735 | Outer_Full | 68.41 | 76.83 | / | Pass |
| | 3750 | Outer_Full | 68.15 | 73.08 | / | Pass |
| | 3765 | Outer_Full | 67.93 | 75.42 | / | Pass |
| CP-OFDM 256 QAM | 3735 | Outer_Full | 68.14 | 72.53 | / | Pass |
| | 3750 | Outer_Full | 68.15 | 72.79 | / | Pass |
| | 3765 | Outer_Full | 67.94 | 72.47 | / | Pass |



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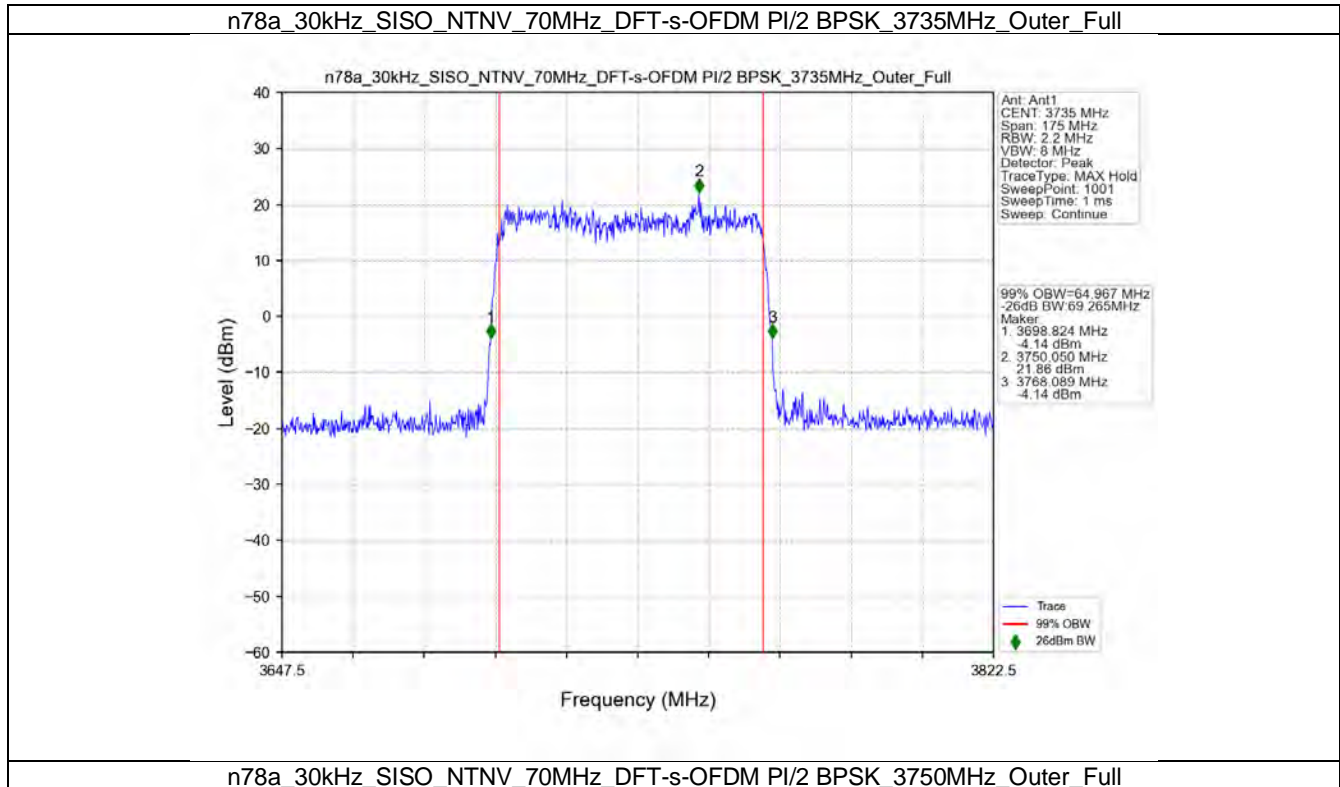
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3.6.2 Test Graph



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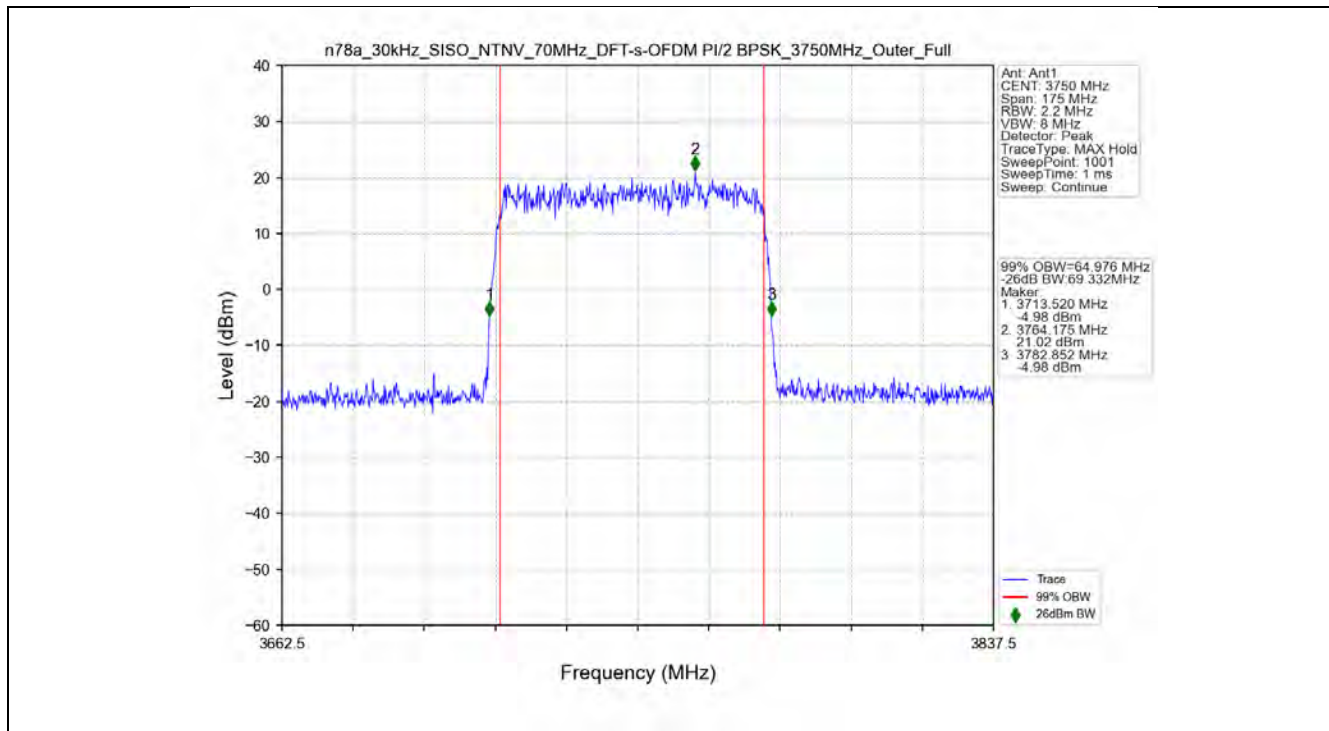
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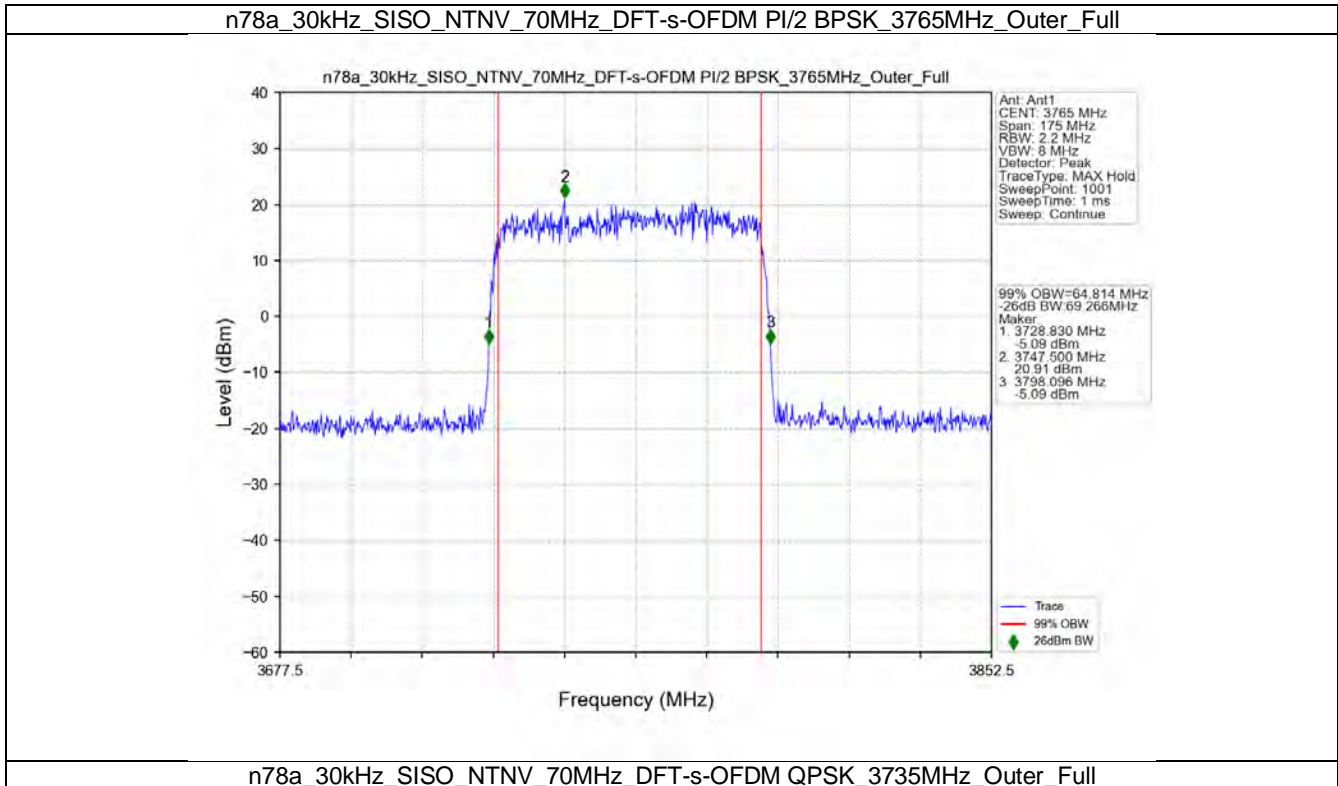


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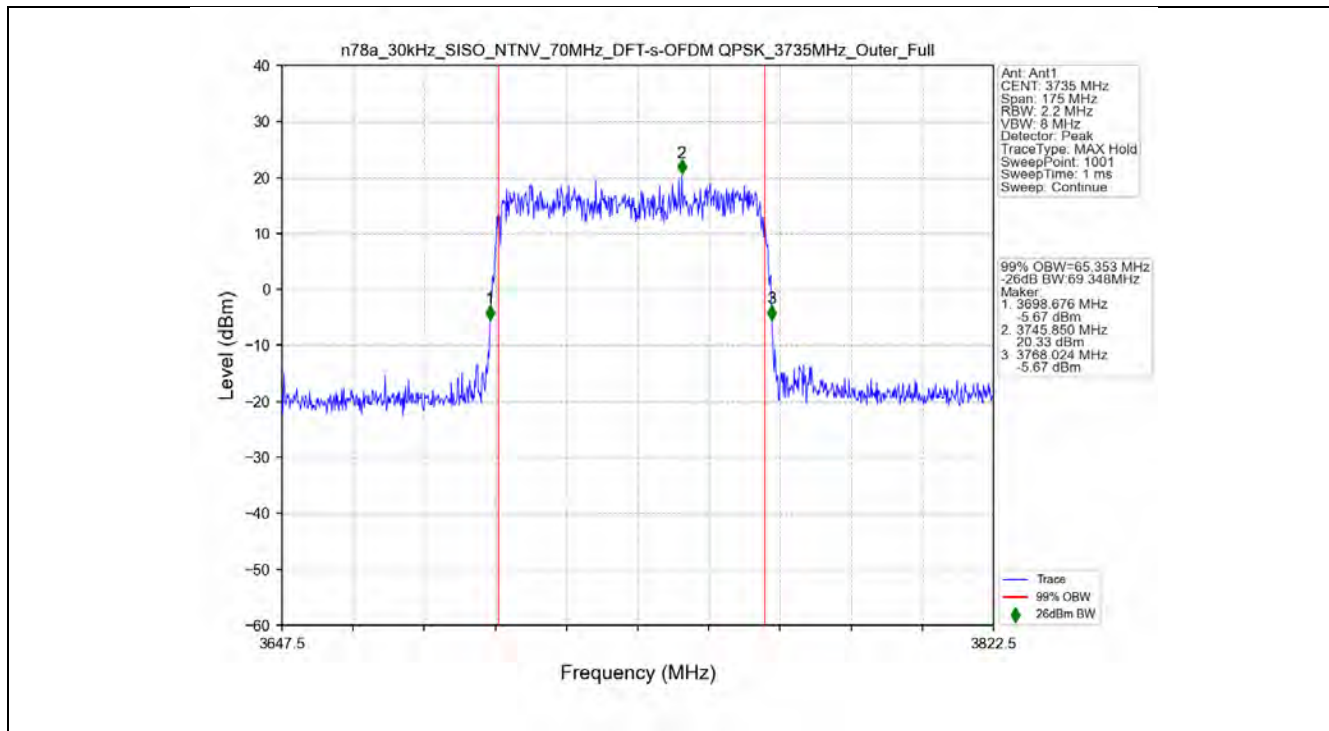
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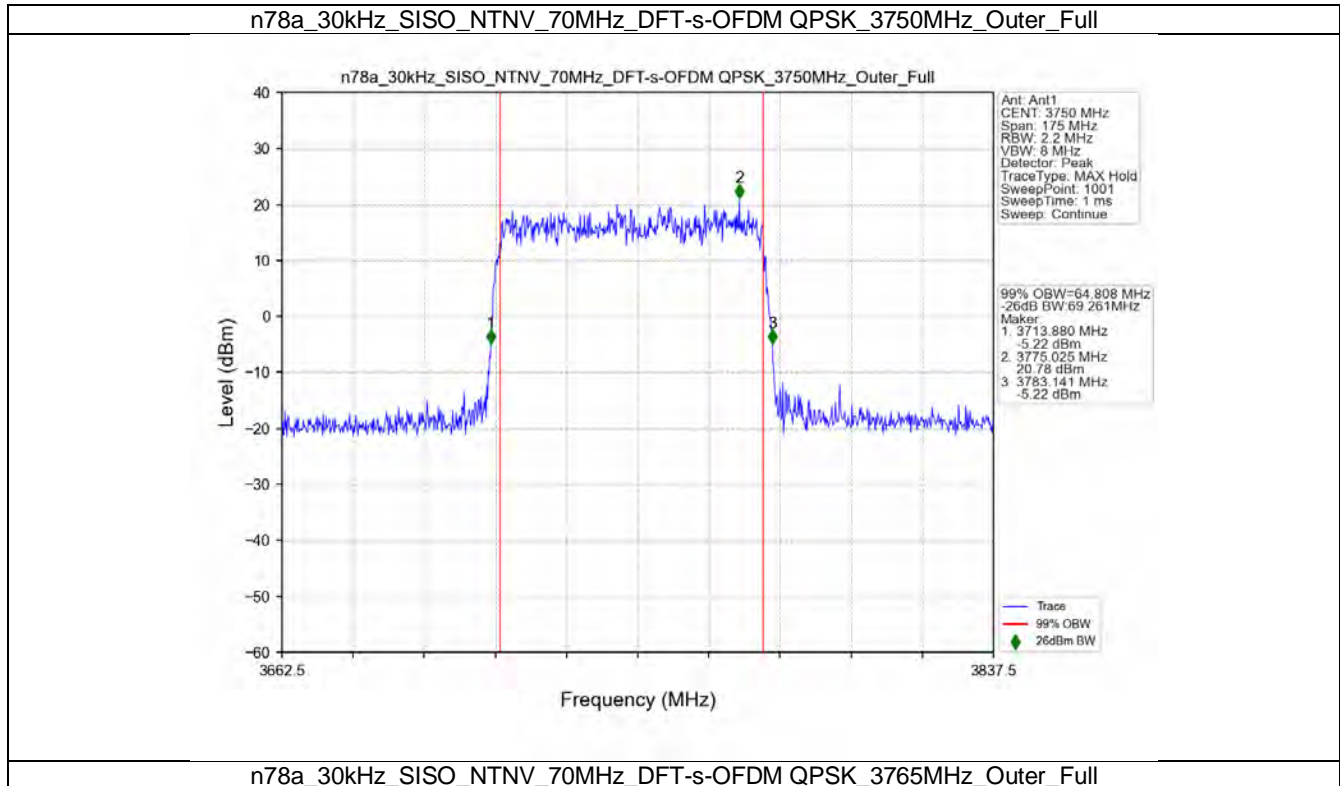


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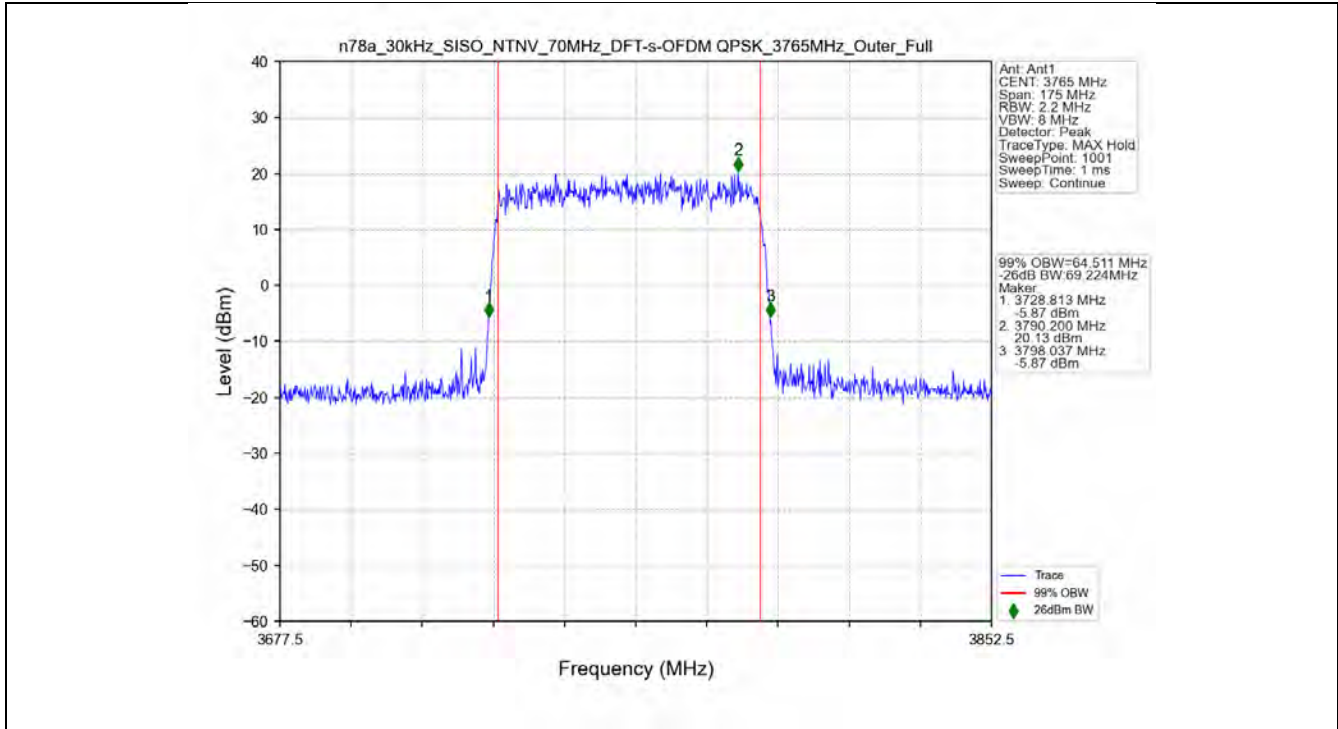


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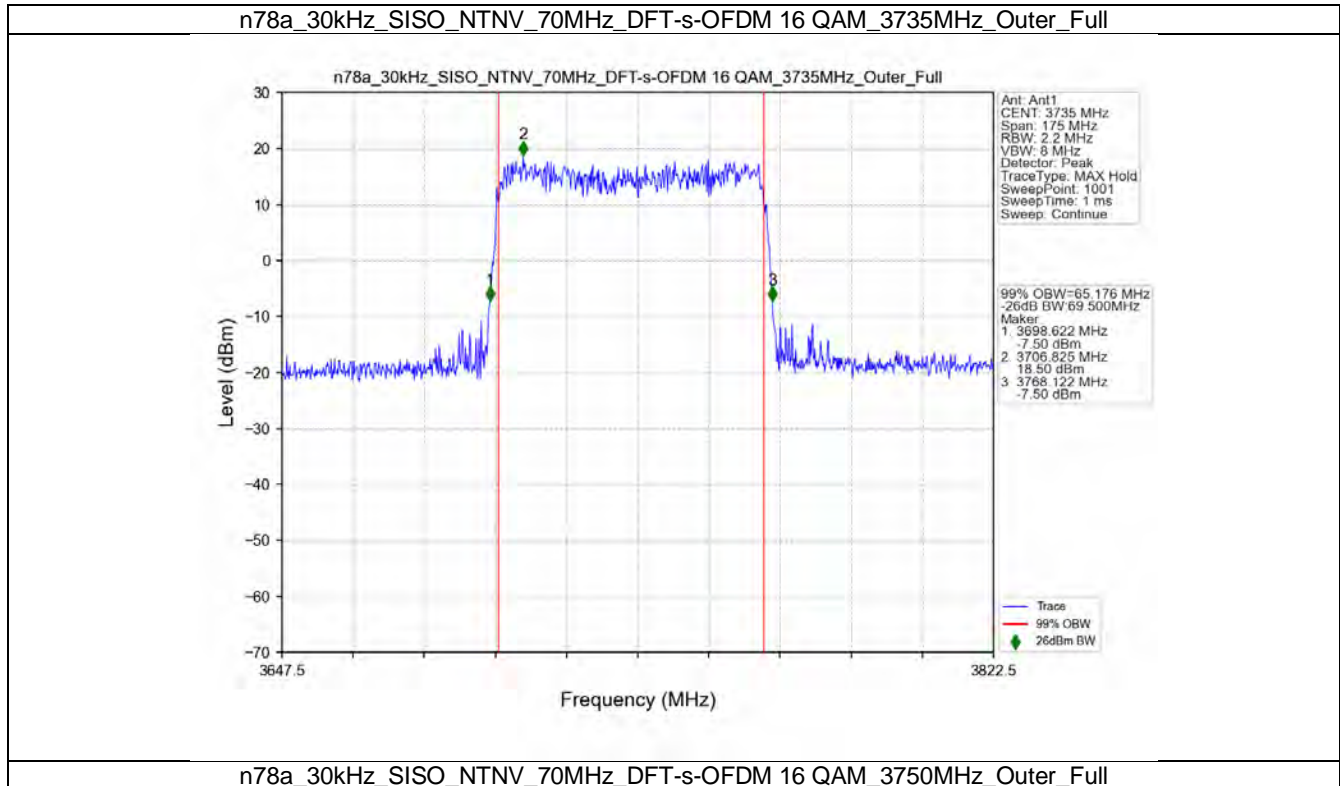


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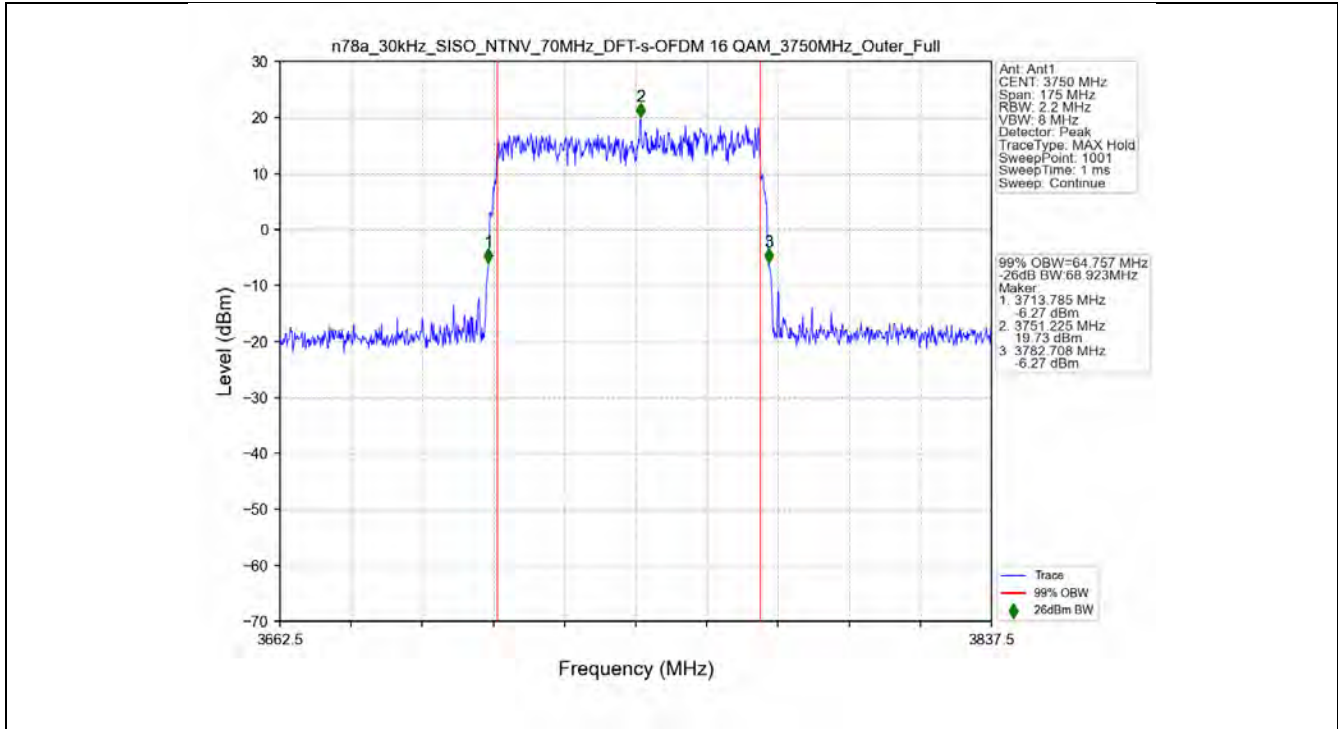


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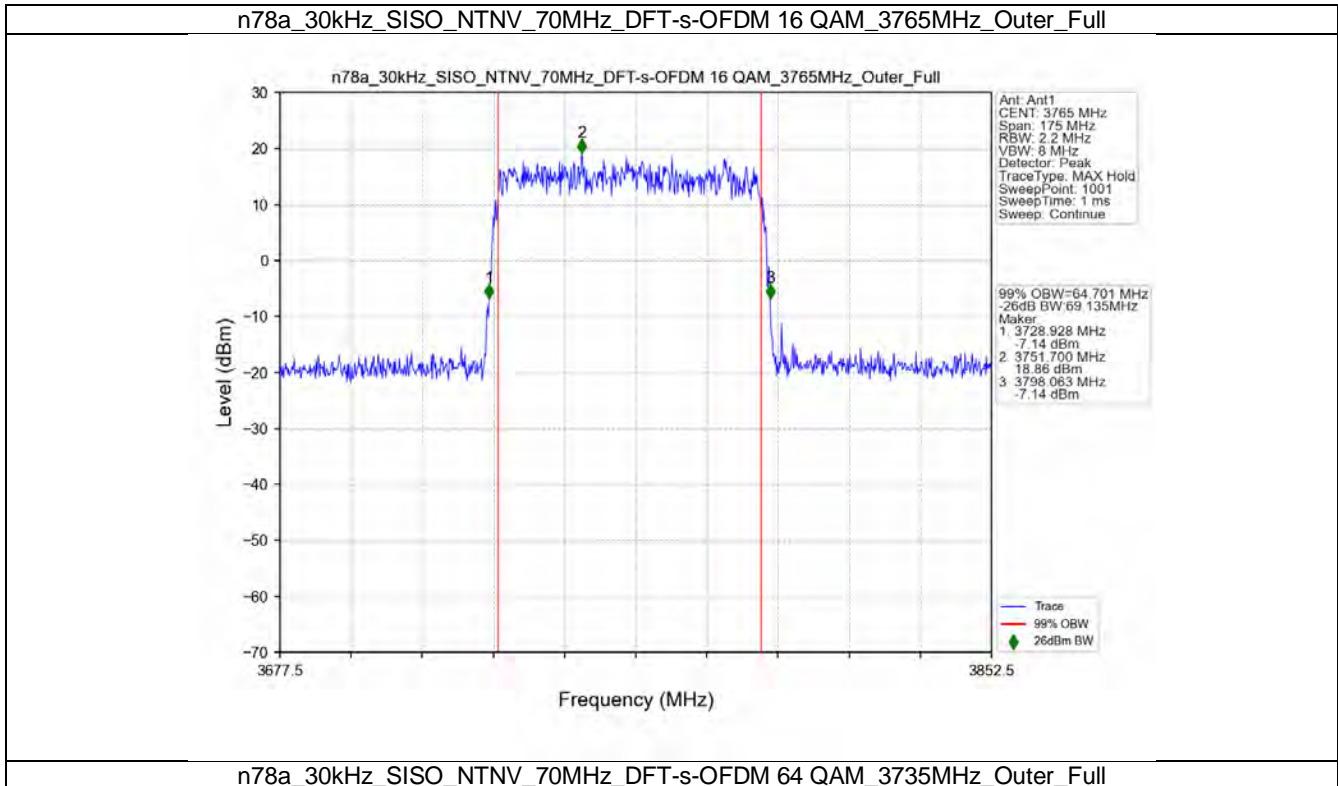


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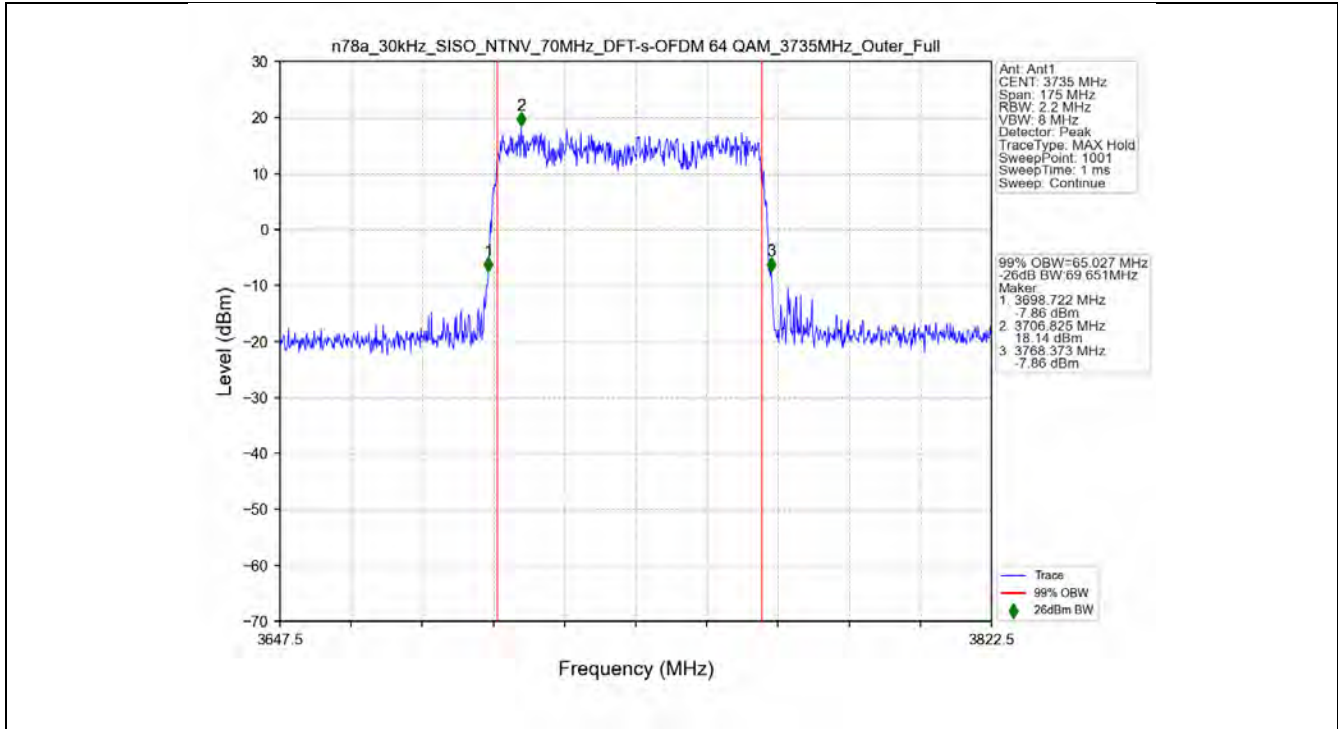


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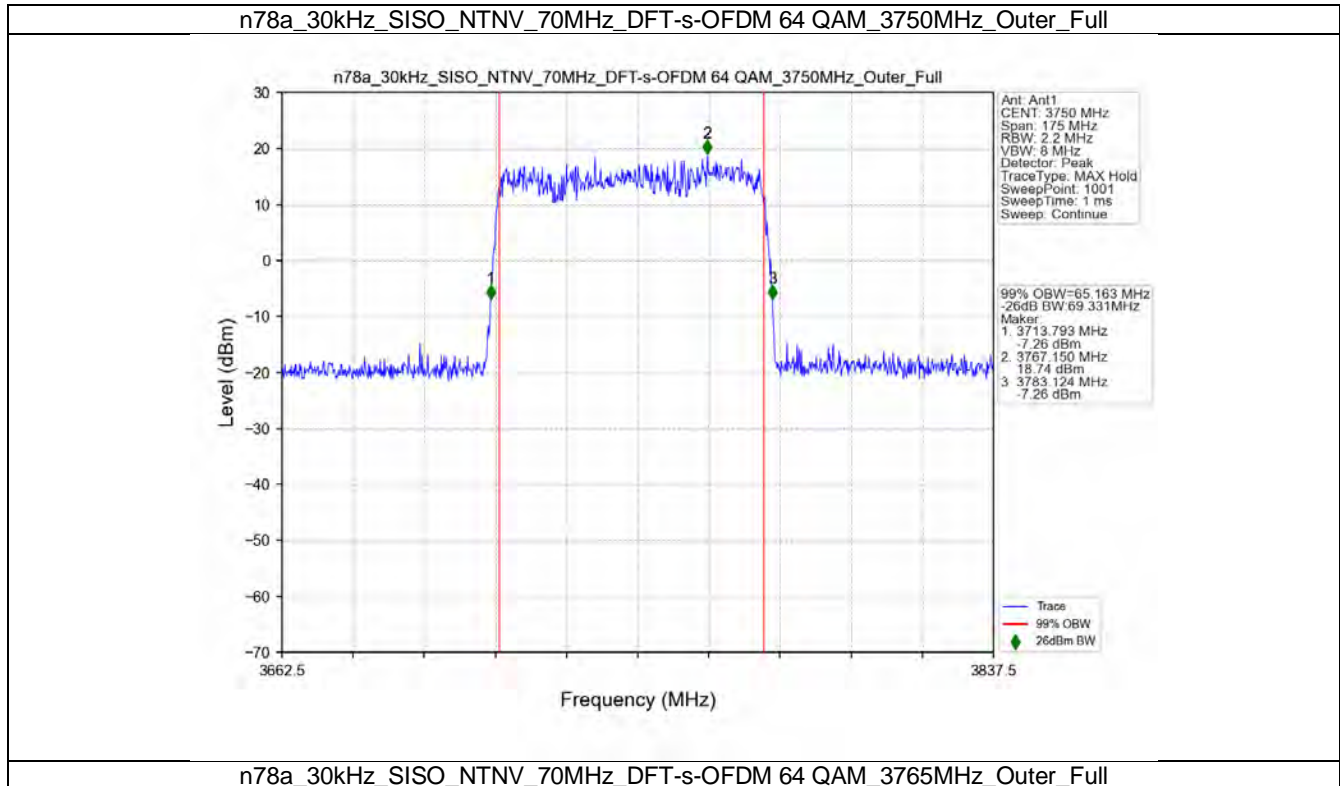


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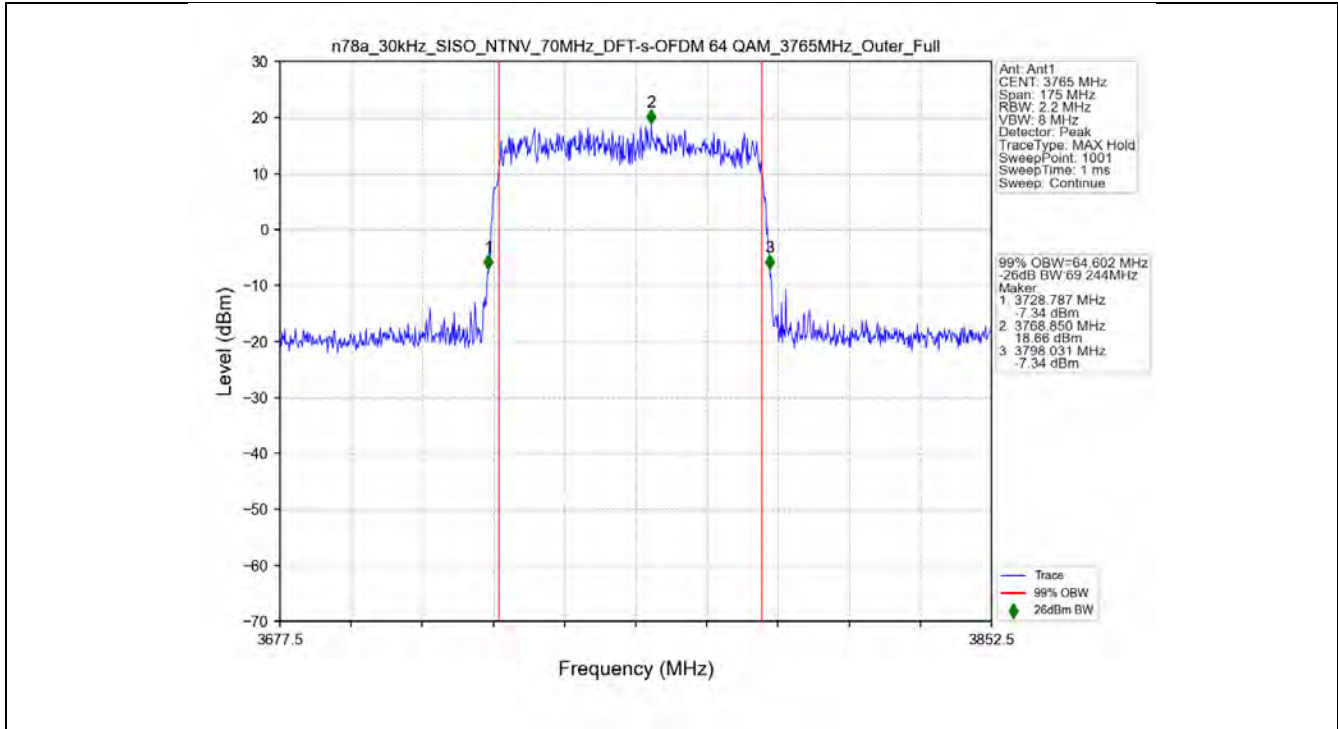


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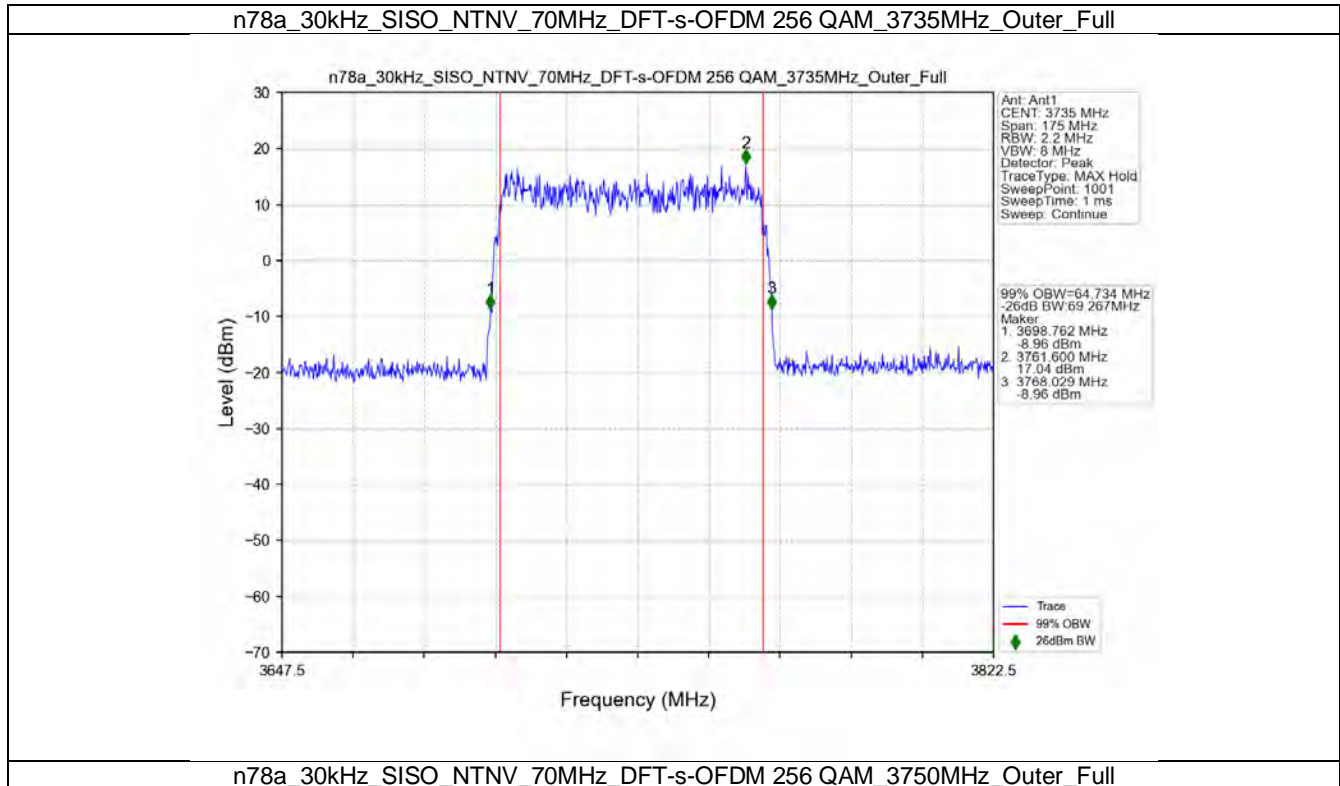


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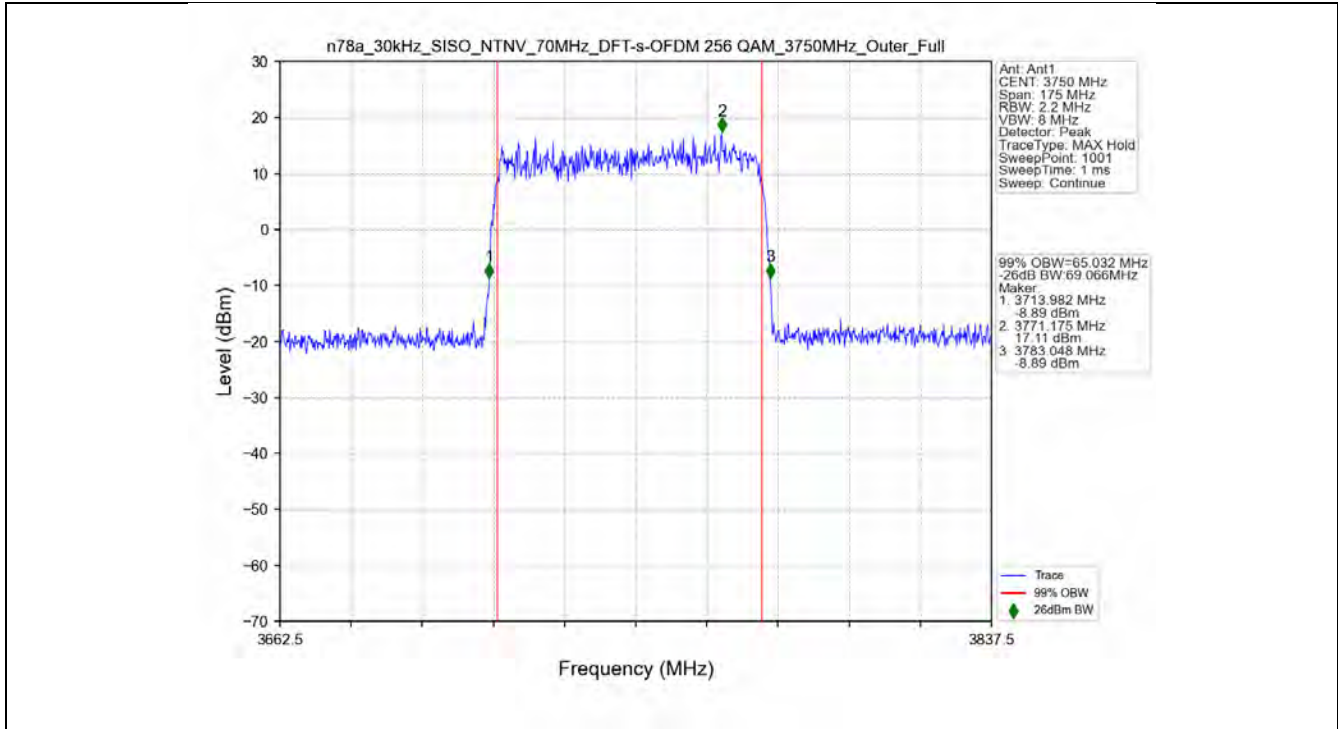


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