



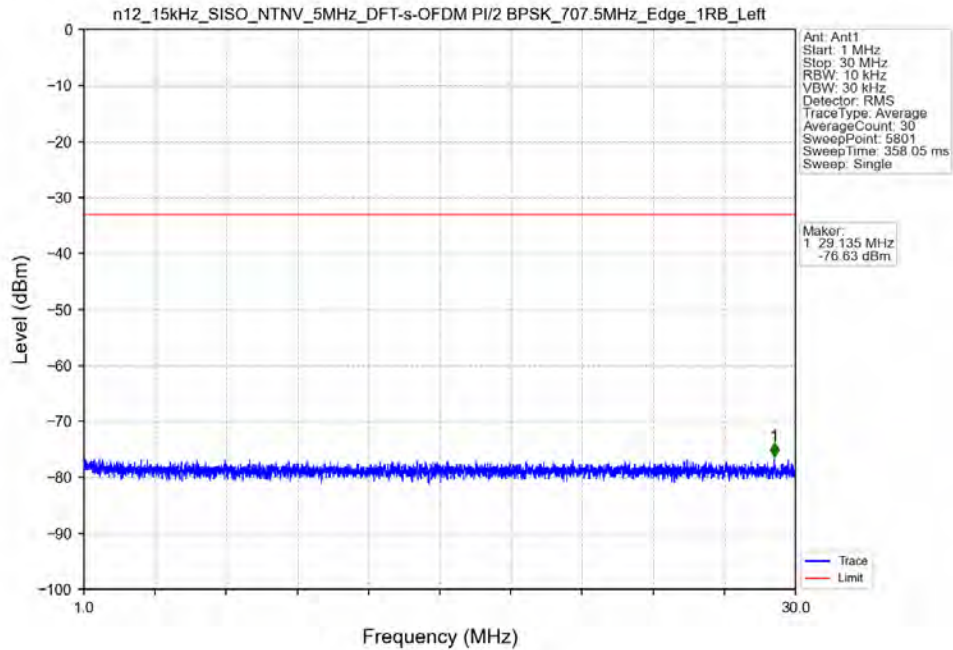
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Shenzhen Branch**

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n12_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_707.5MHz_Edge_1RB_Left



n12_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_707.5MHz_Edge_1RB_Left



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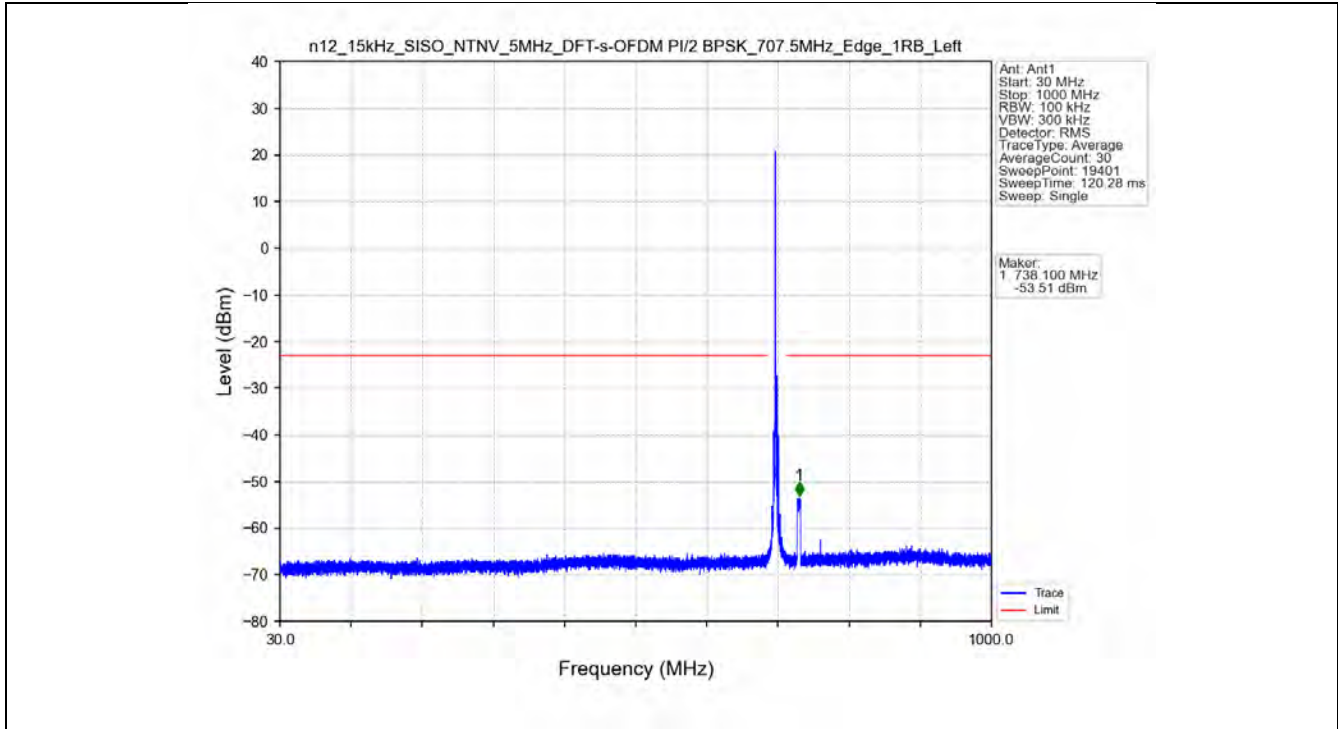


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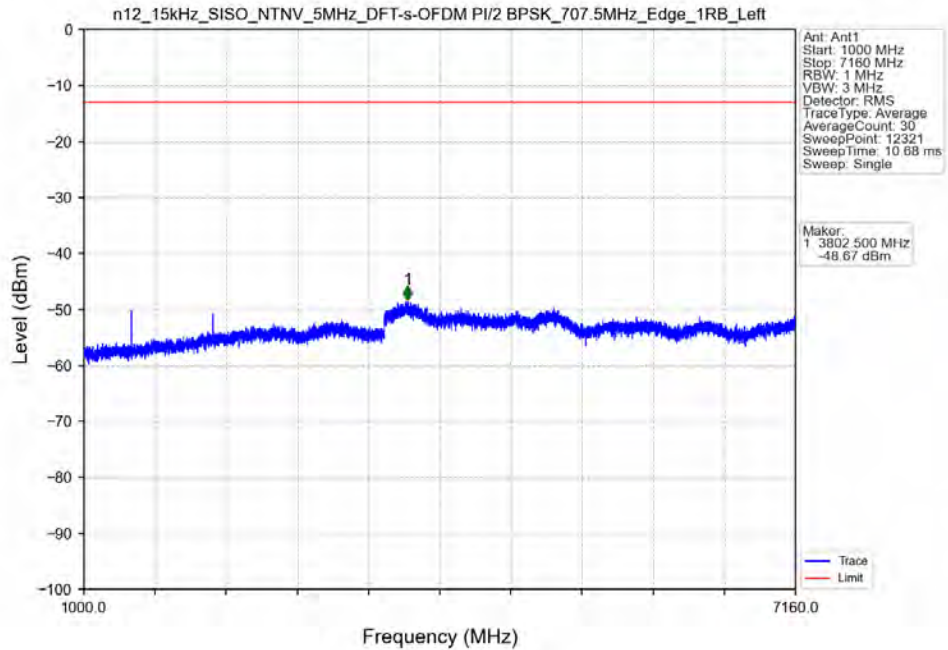
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n12_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_713.5MHz_Edge_1RB_Right



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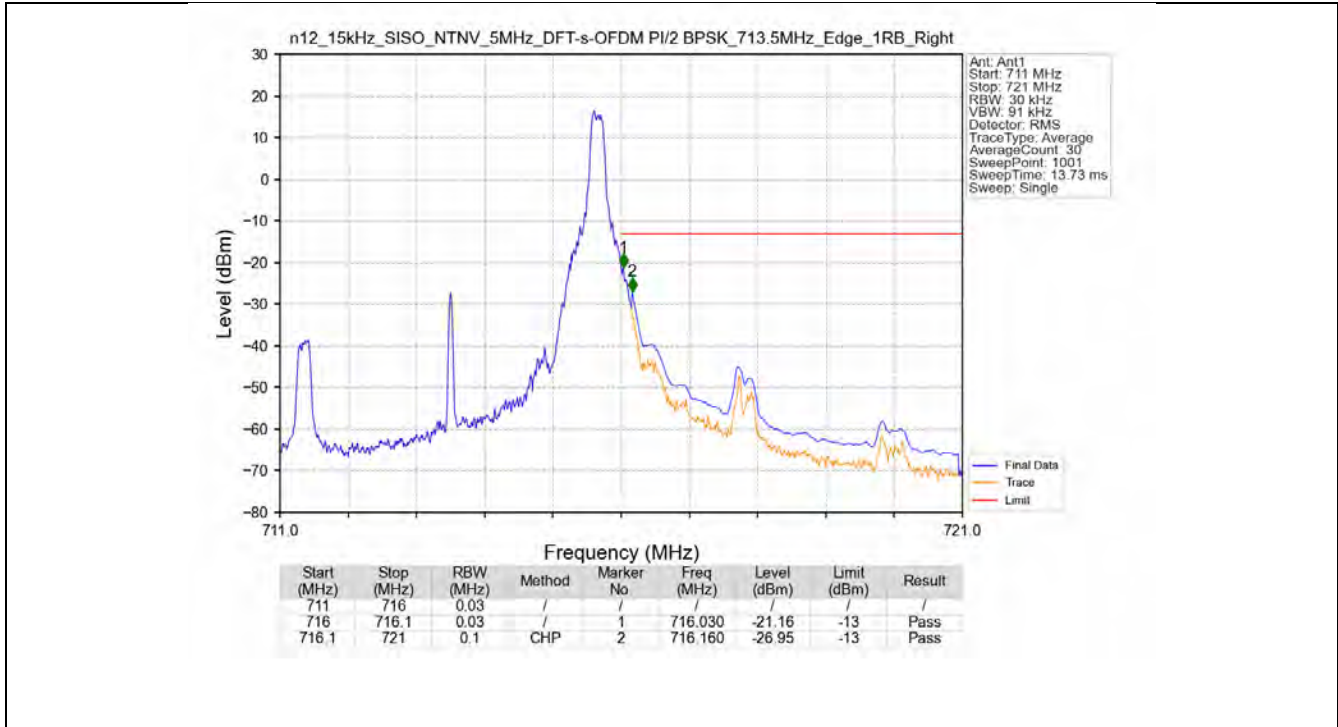


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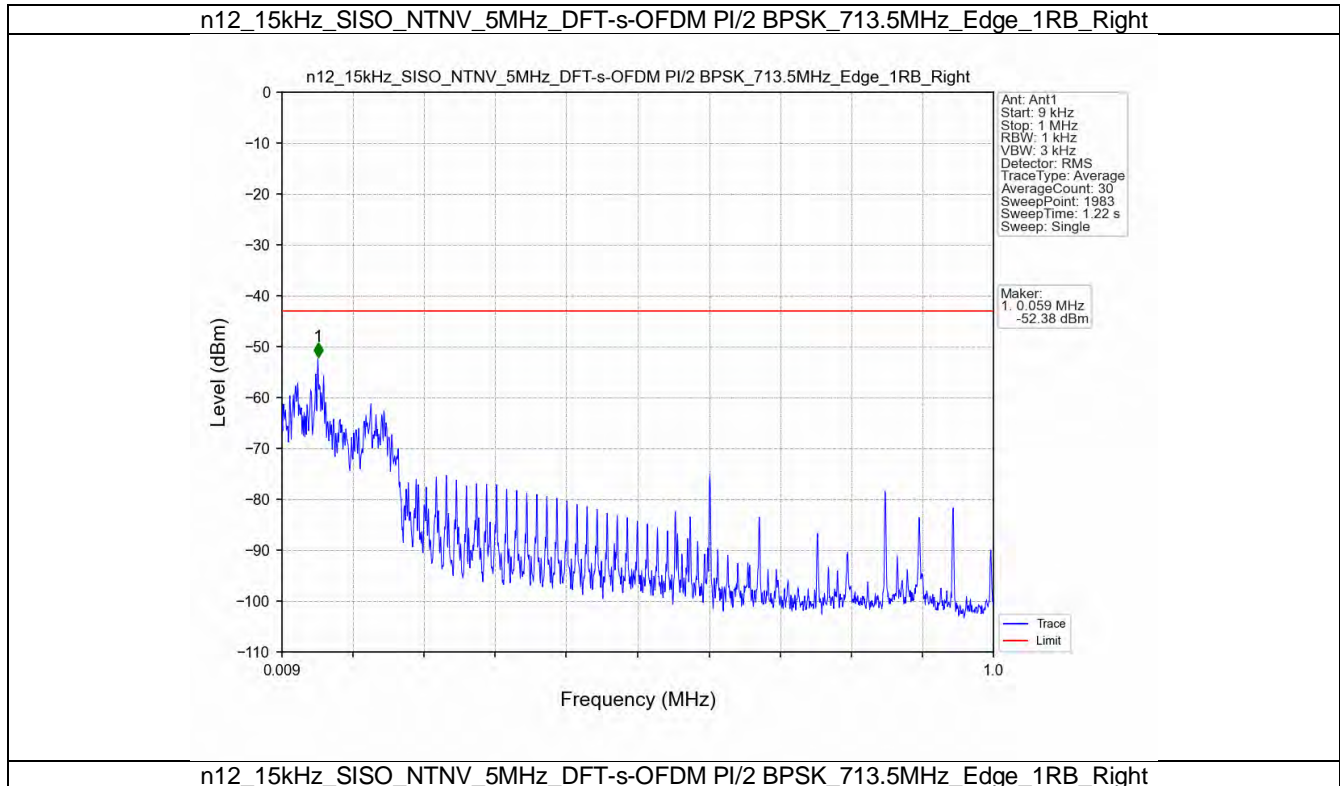


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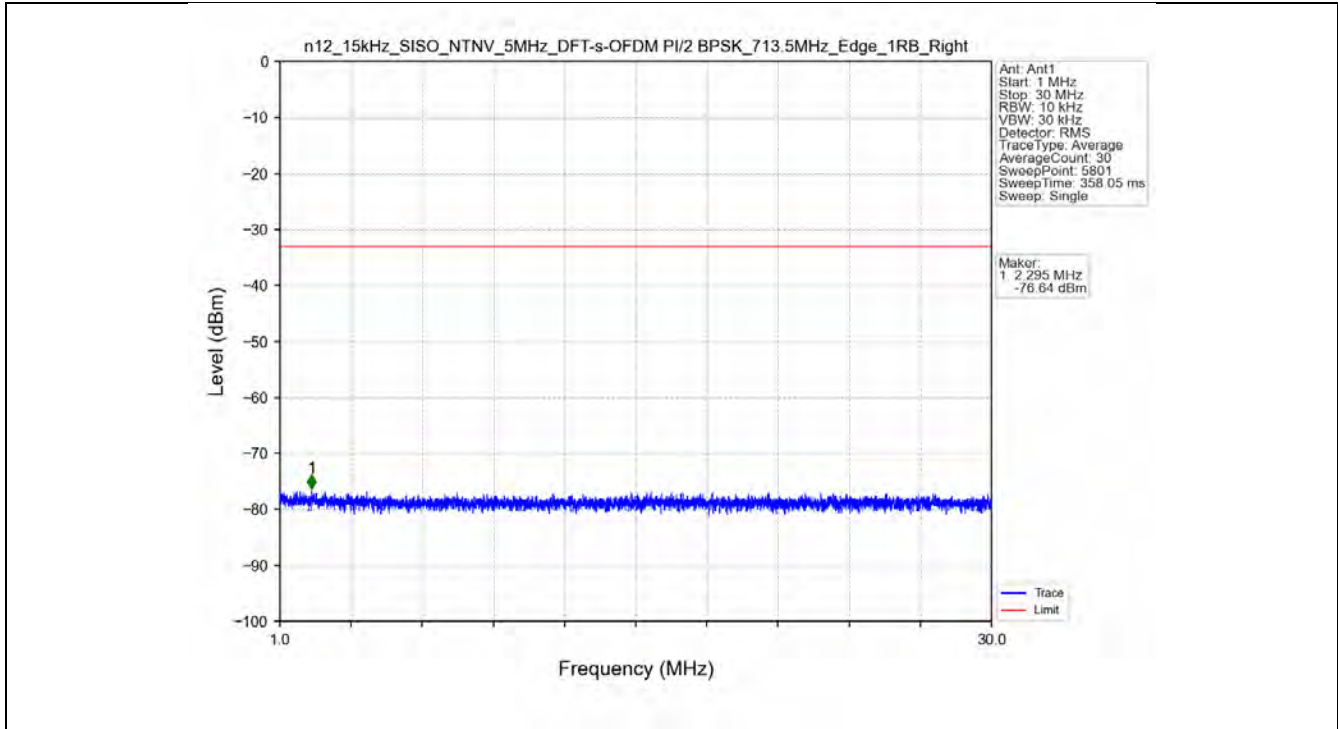


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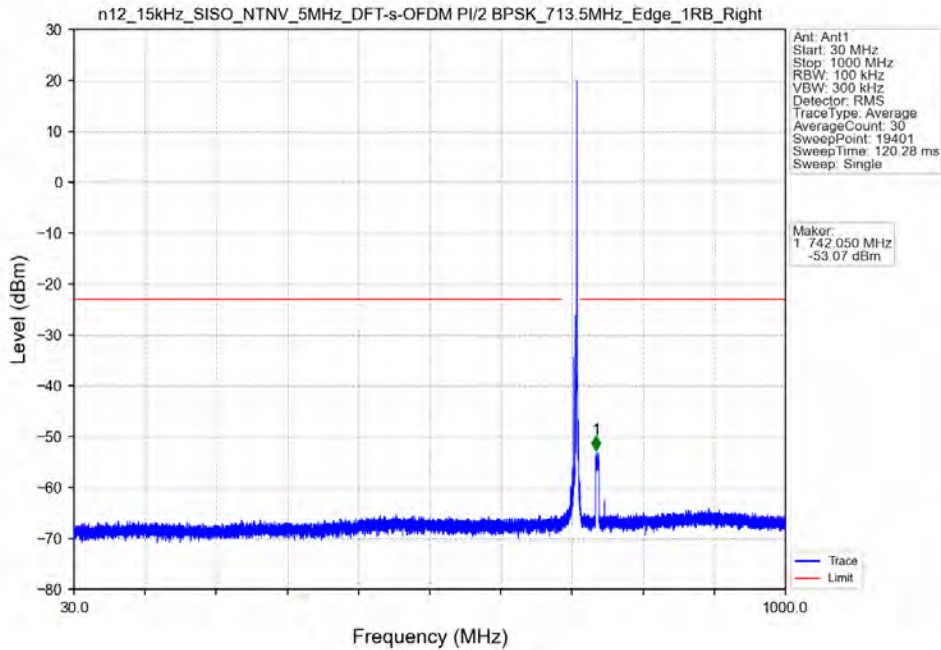
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n12_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_713.5MHz_Edge_1RB_Right



n12_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_713.5MHz_Edge_1RB_Right



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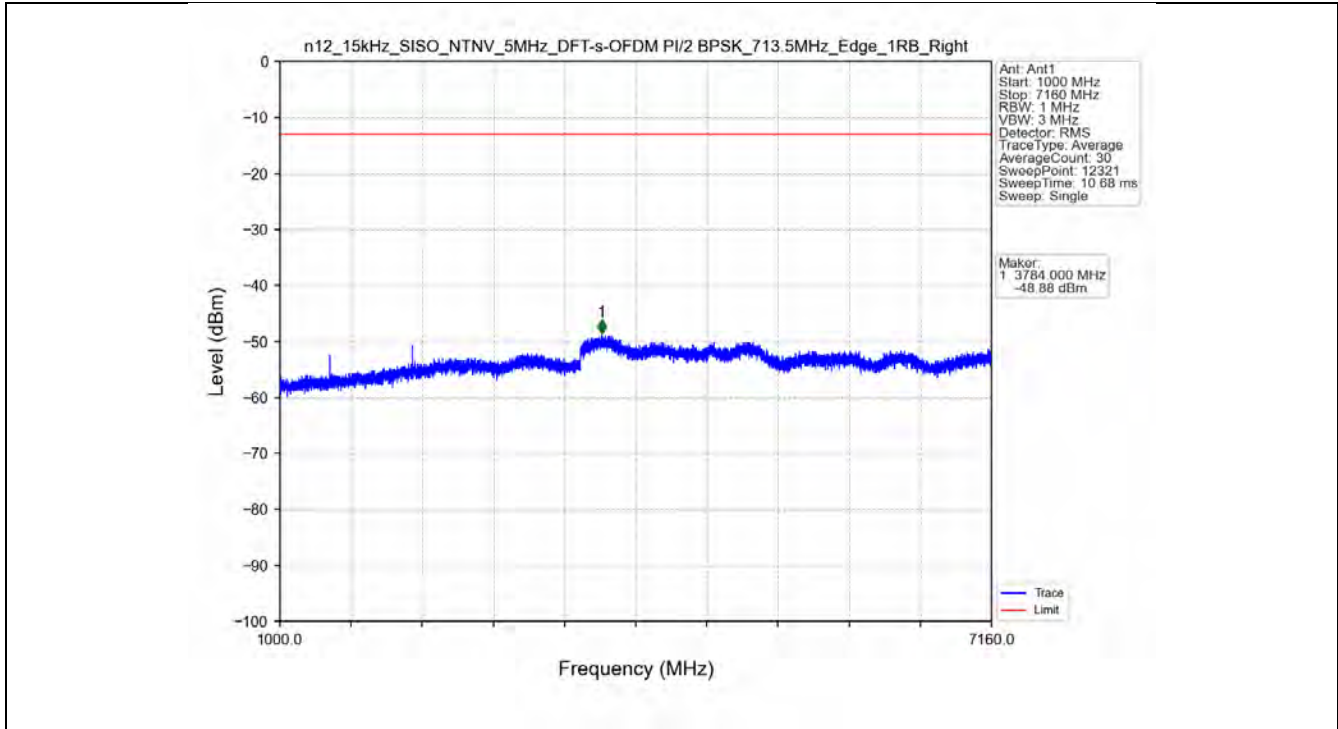


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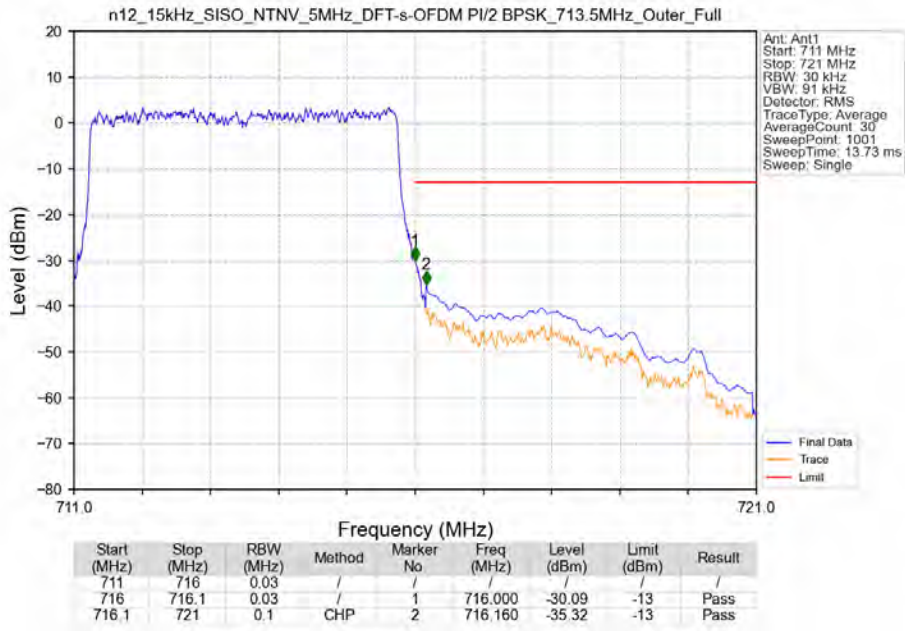
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n12_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_713.5MHz_Outer_Full



n12_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_713.5MHz_Inner_1RB_Right



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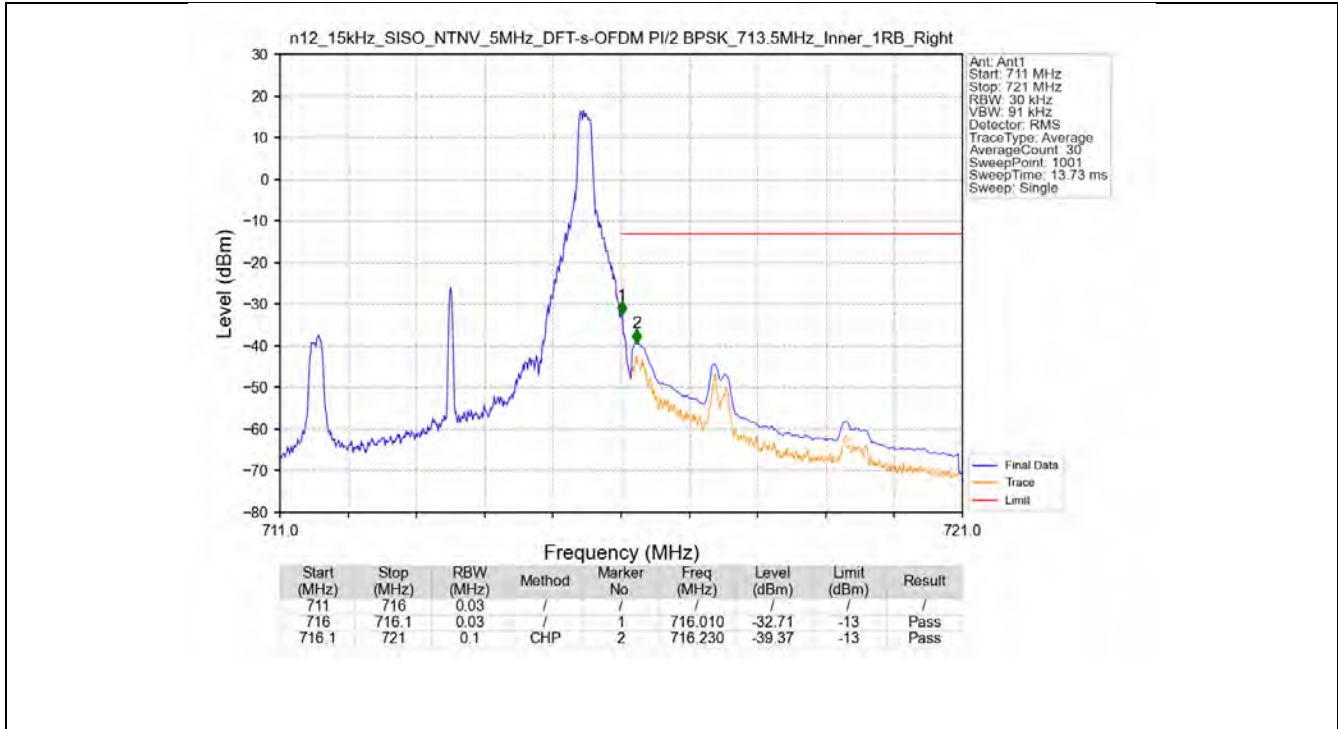


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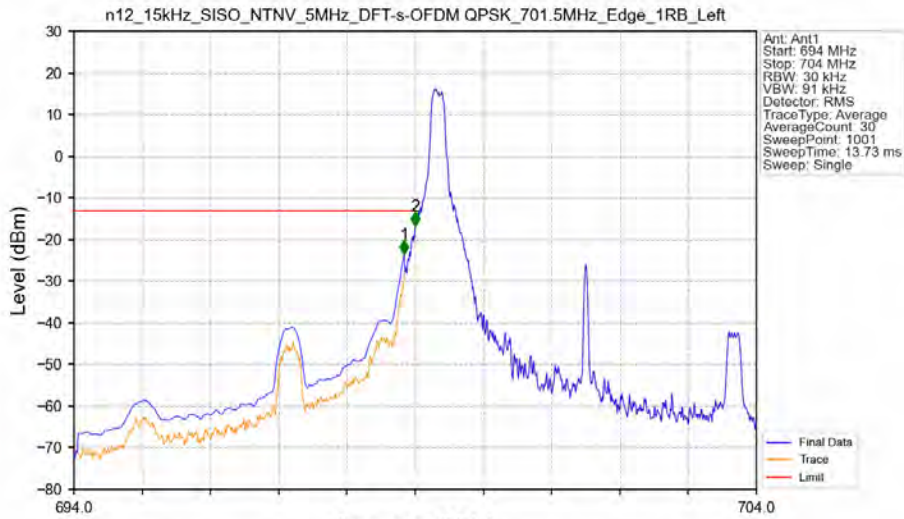
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| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 694 | 698.9 | 0.1 | CHP | 1 | 698.840 | -23.58 | -13 | Pass |
| 698.9 | 699 | 0.03 | / | 2 | 699.000 | -16.70 | -13 | Pass |

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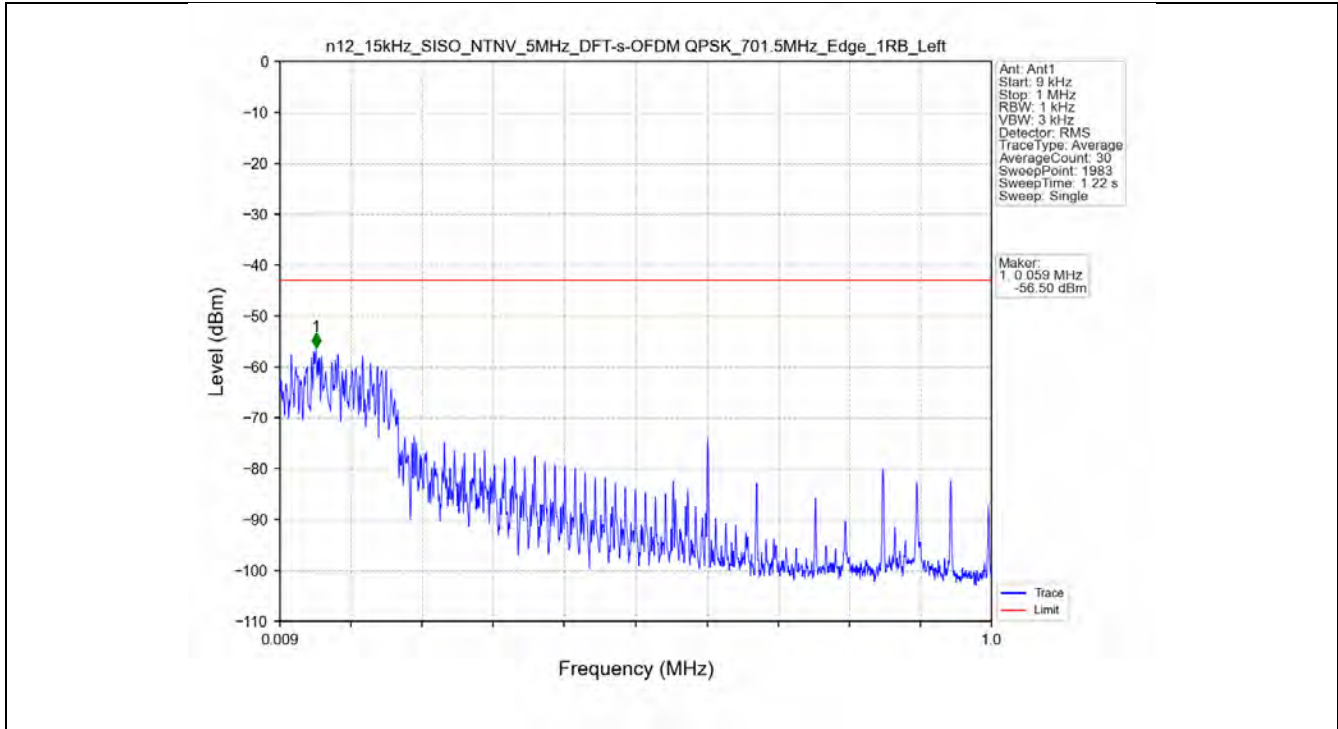


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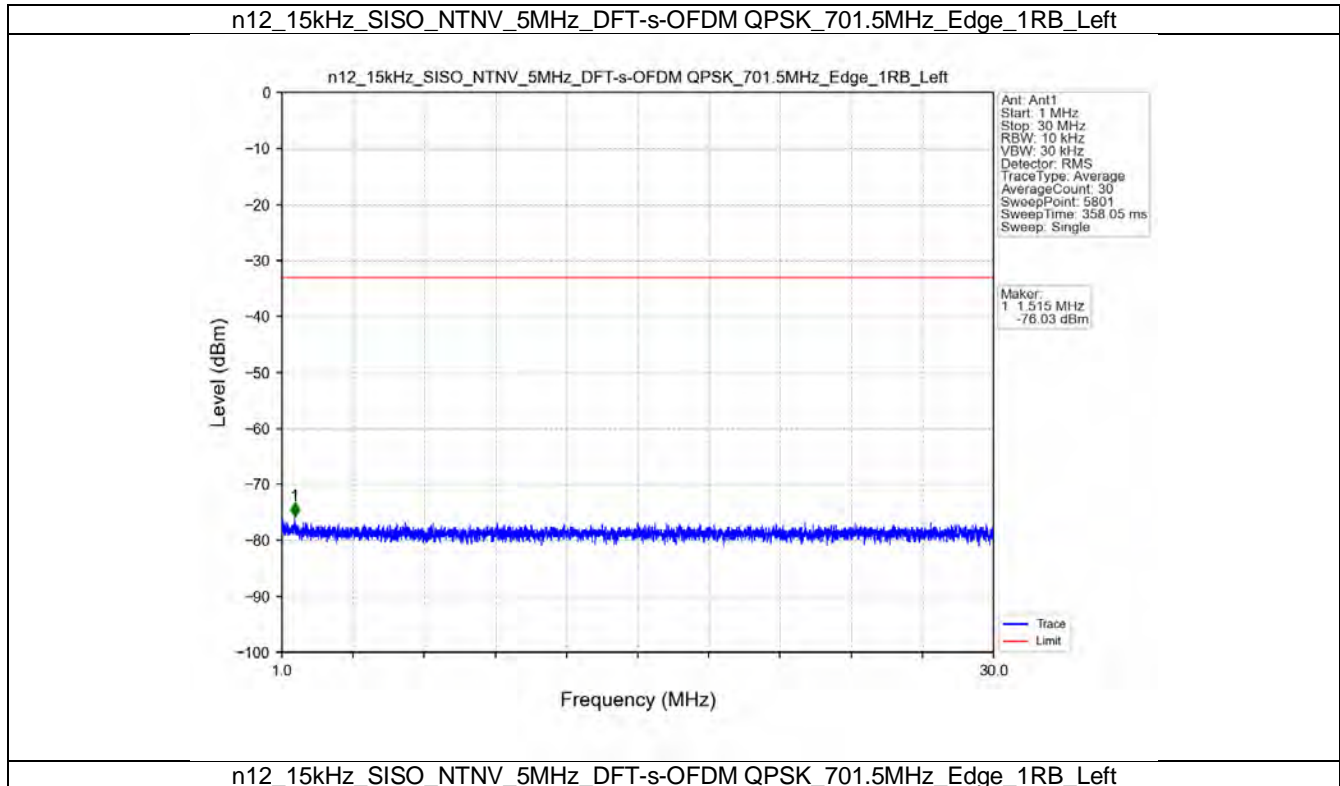


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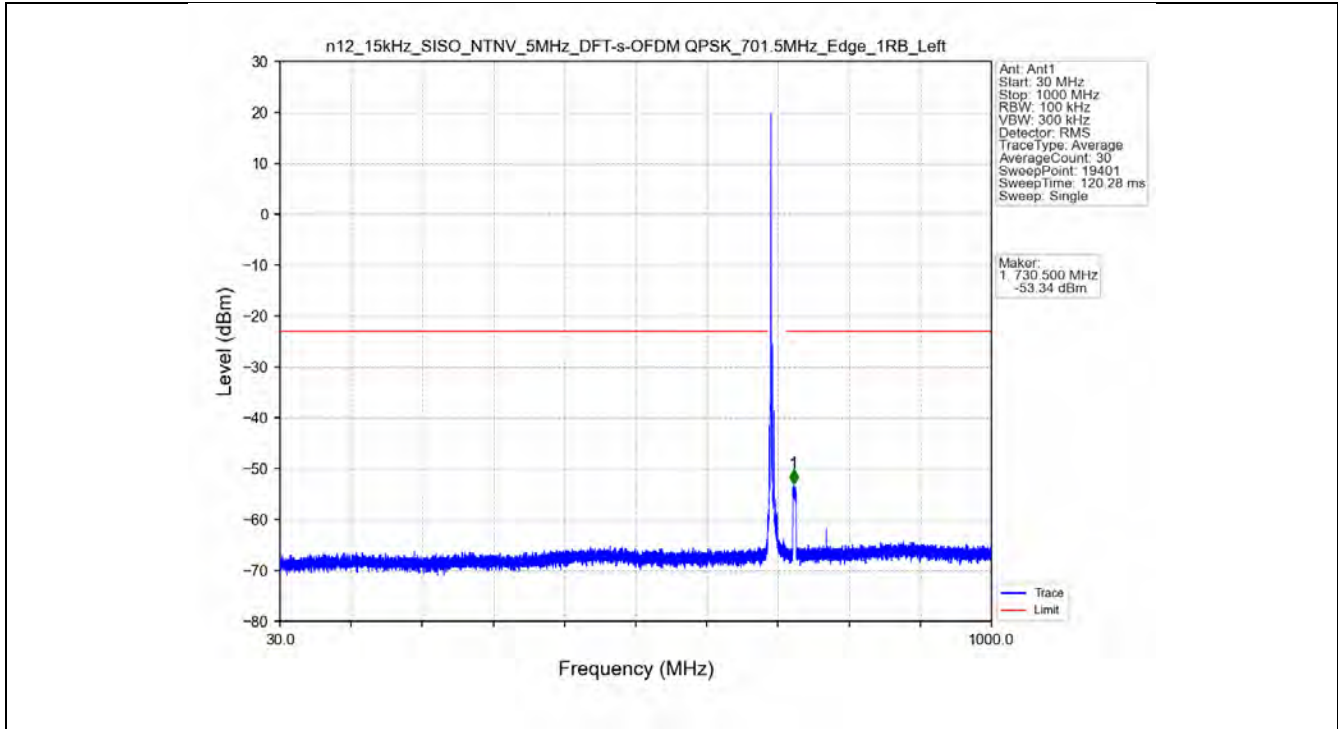


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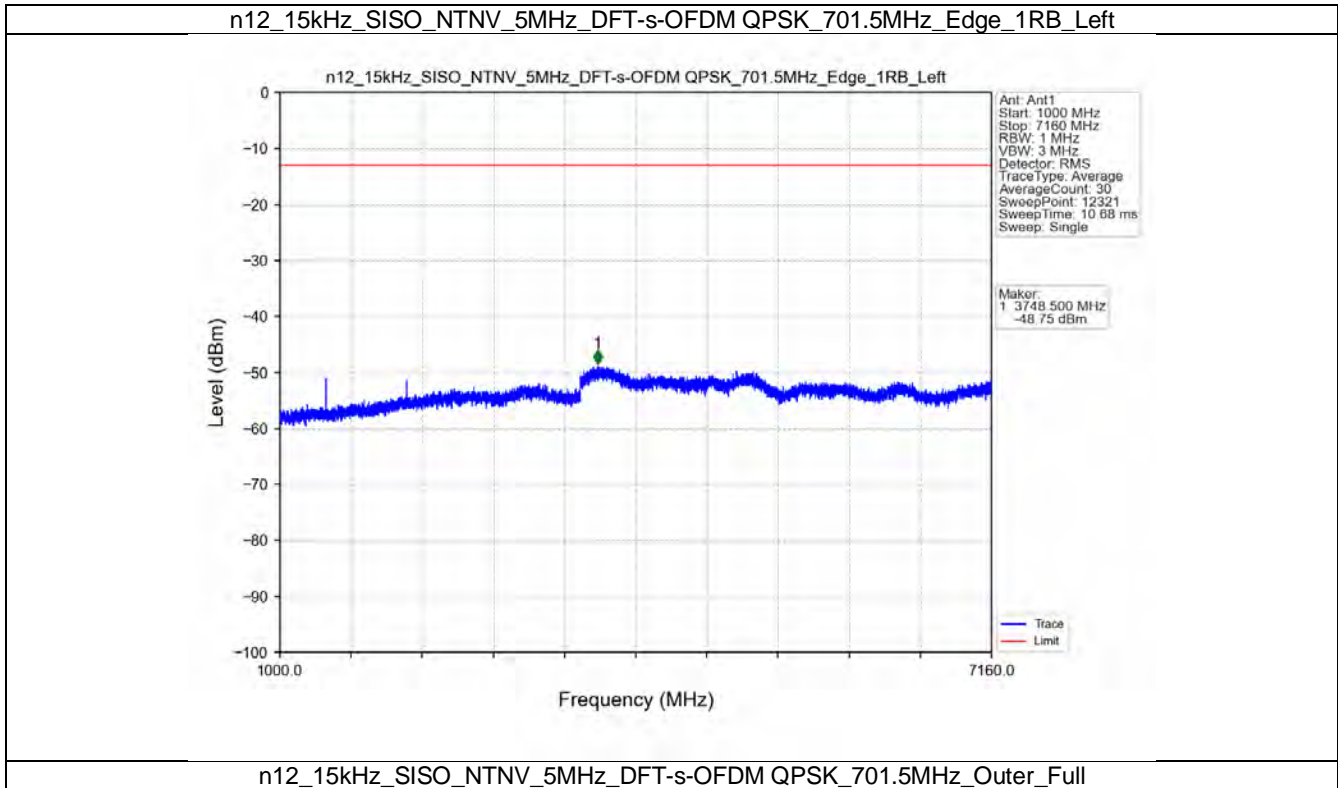


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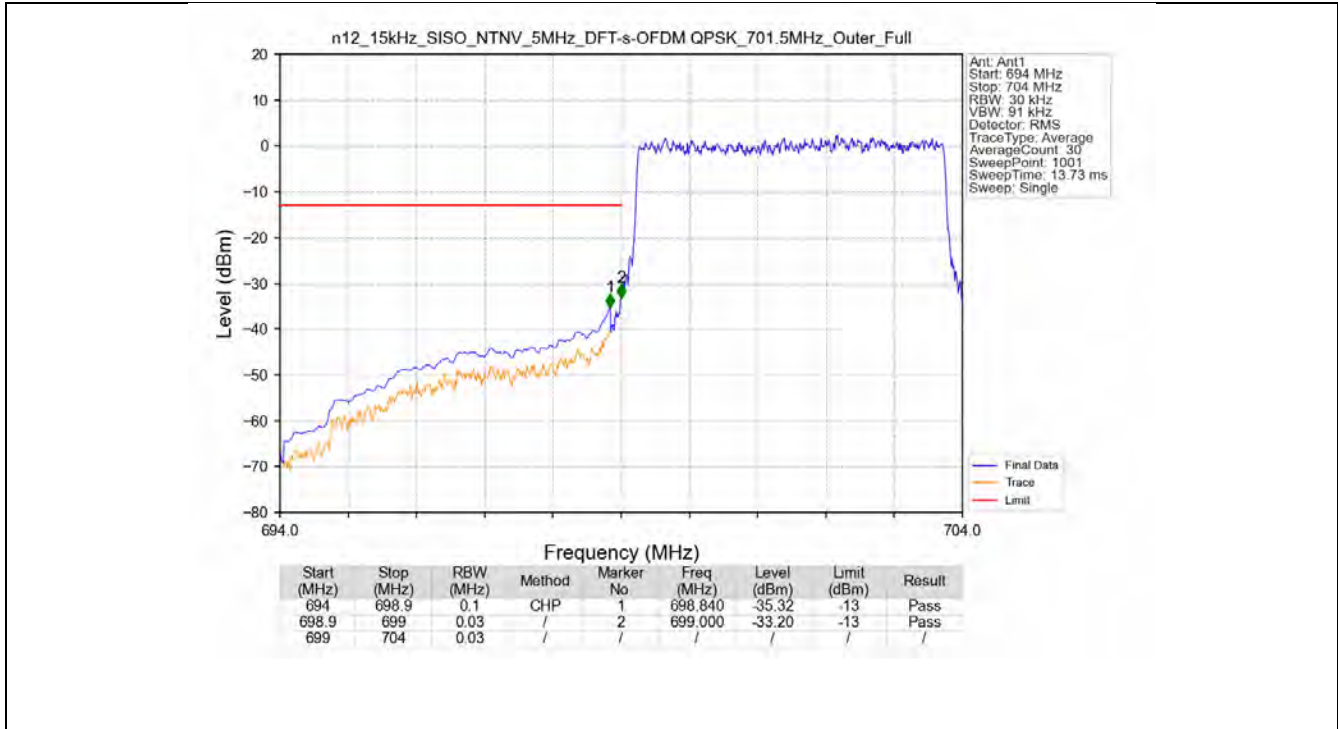


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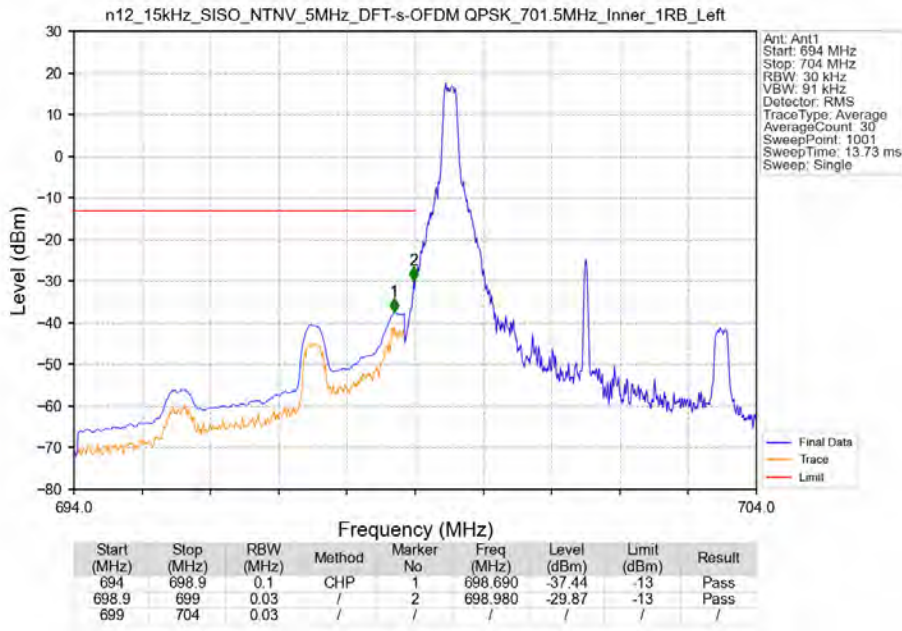
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n12_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_QPSK_701.5MHz_Inner_1RB_Left



n12_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_QPSK_707.5MHz_Edge_1RB_Left



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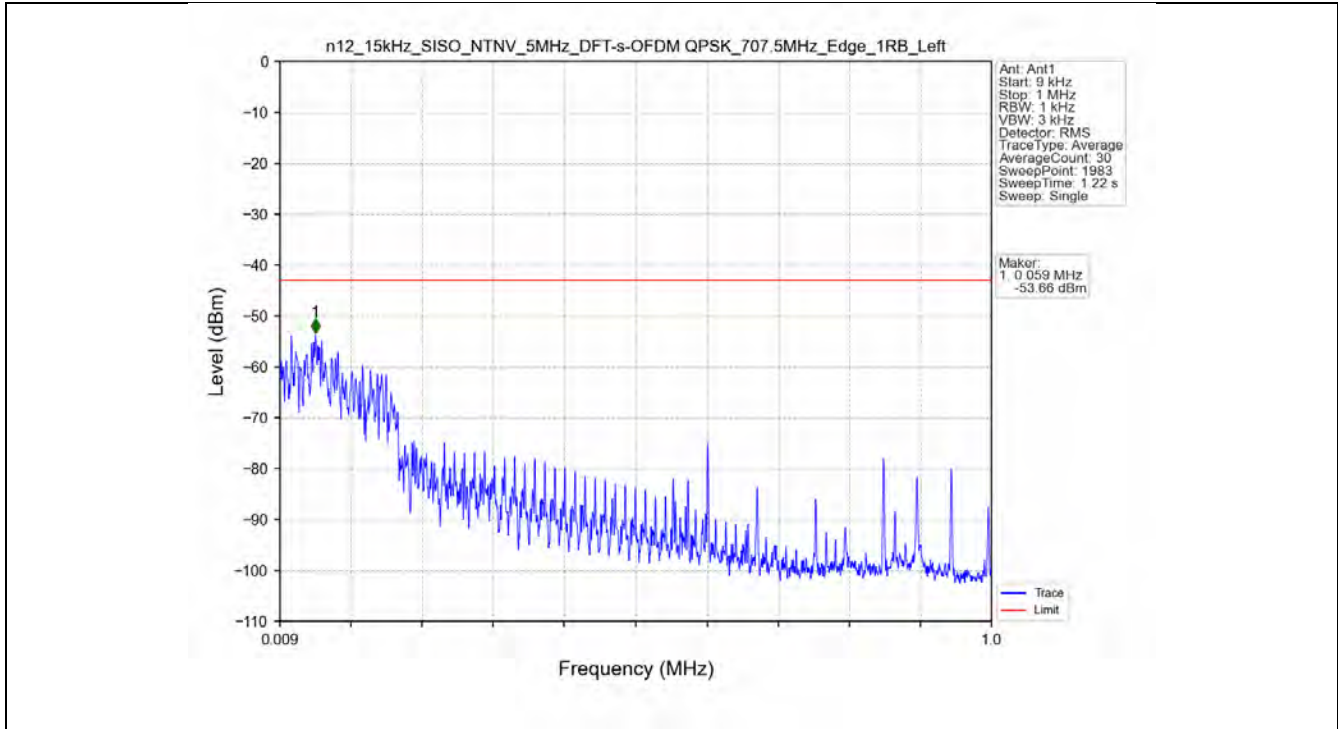


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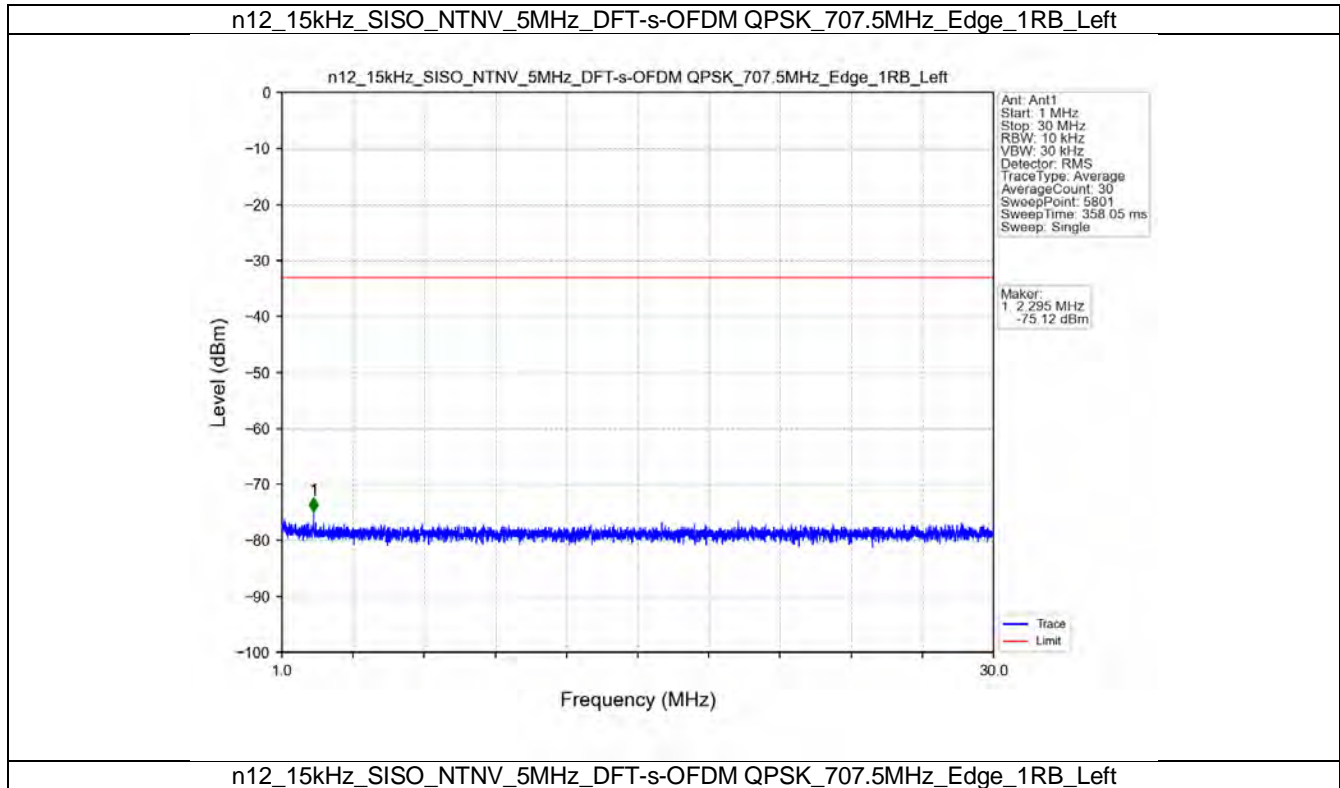


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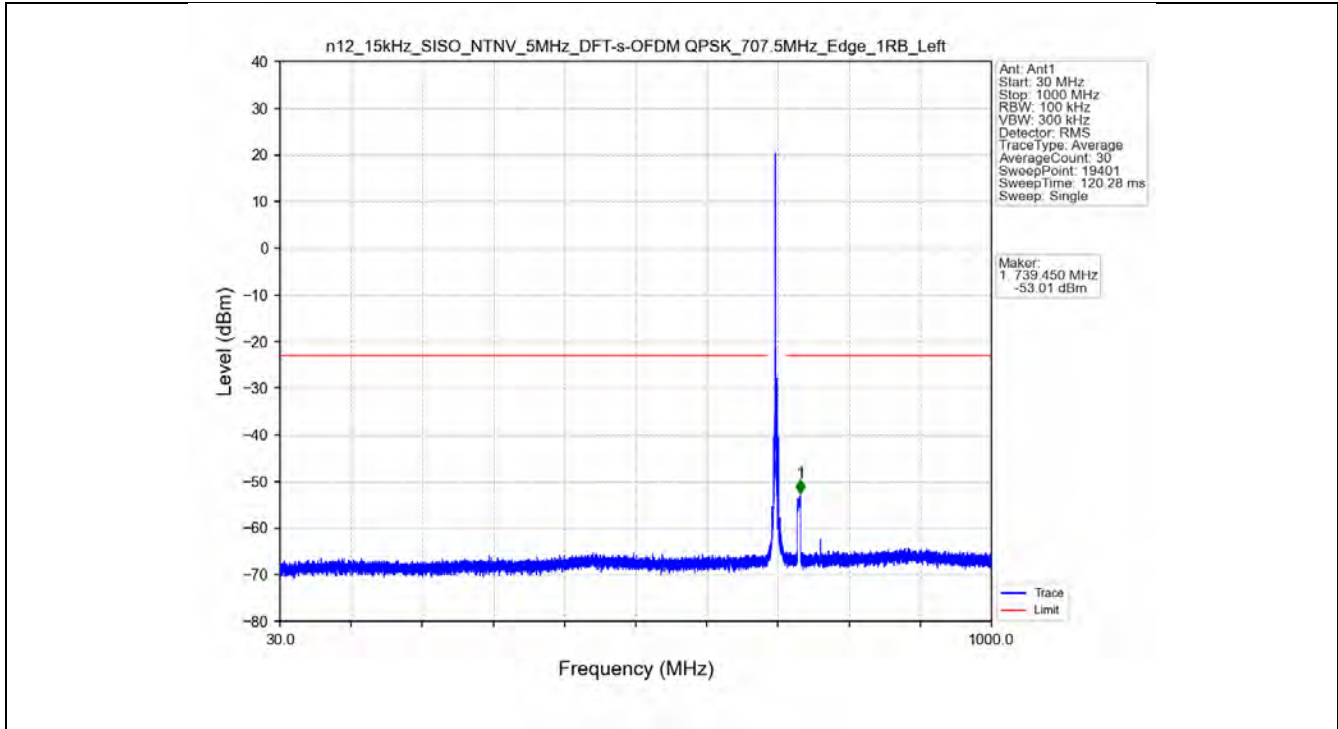


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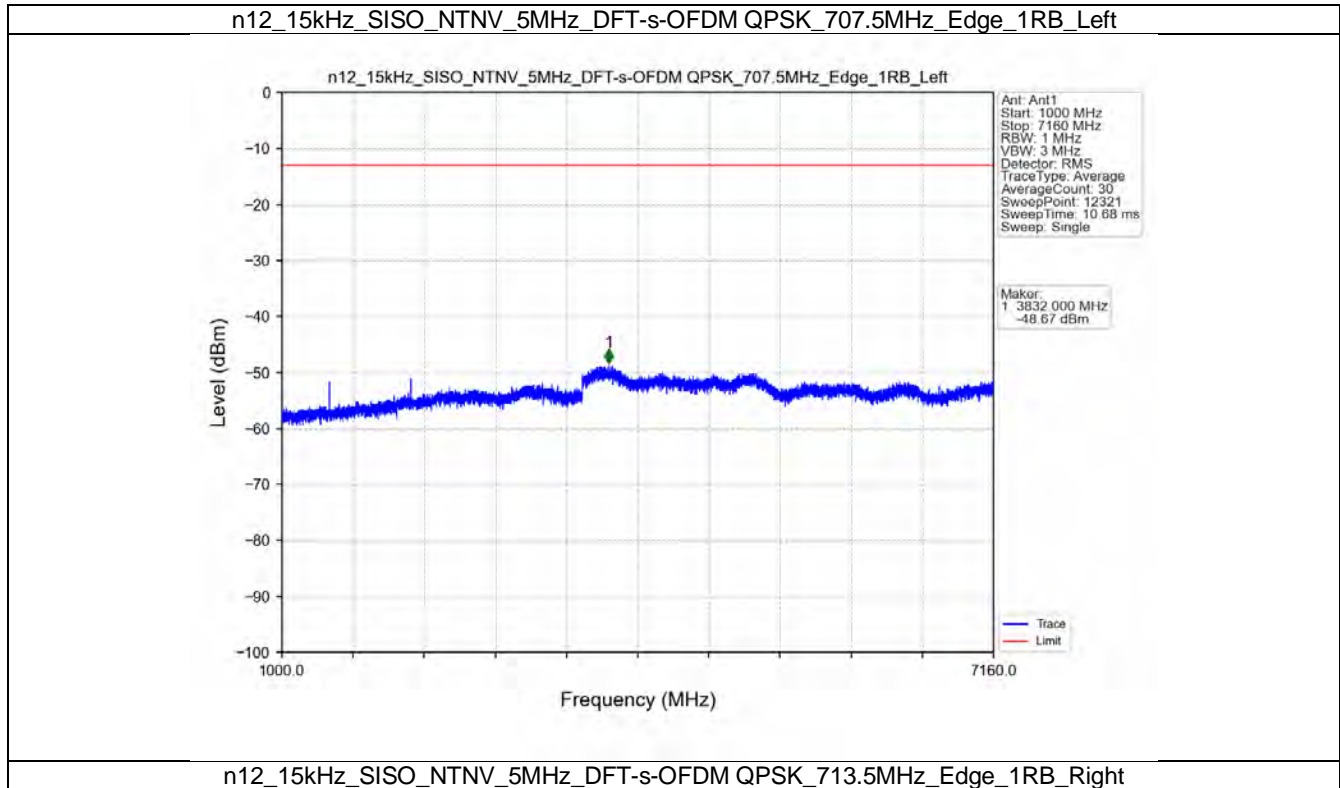


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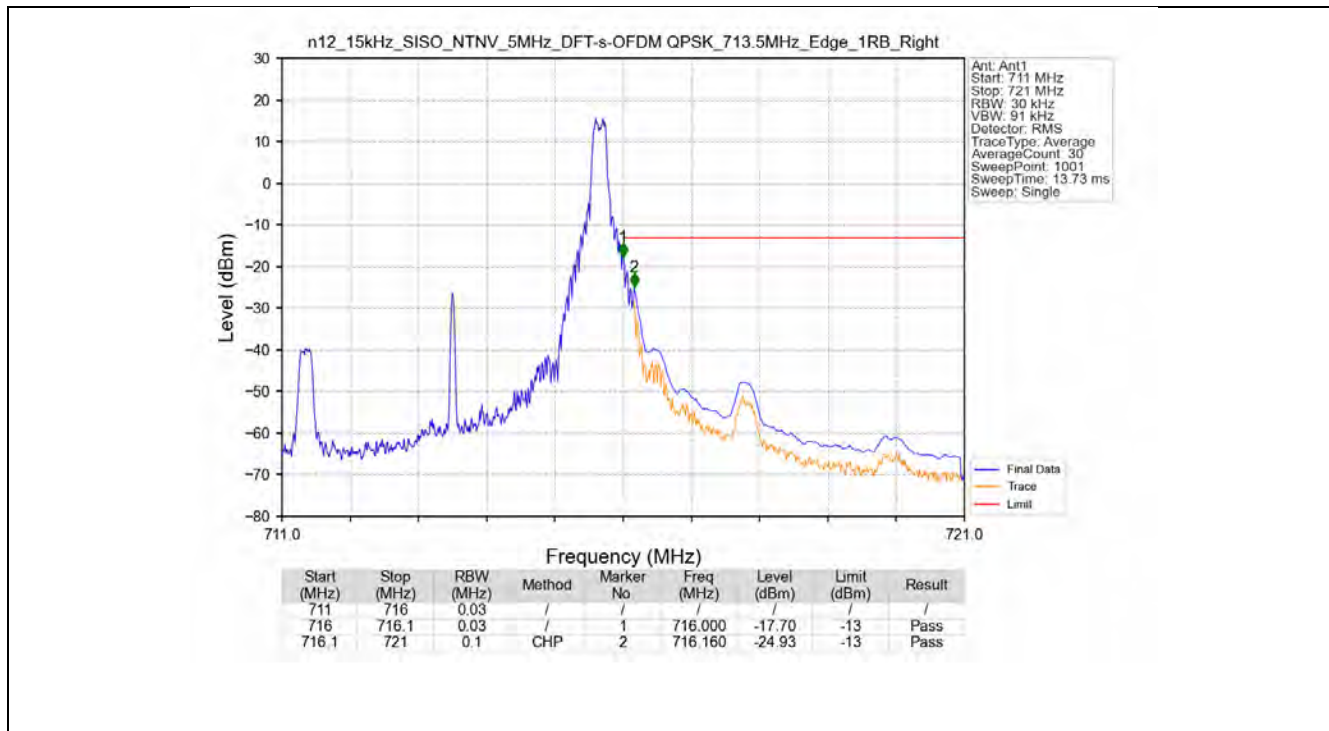
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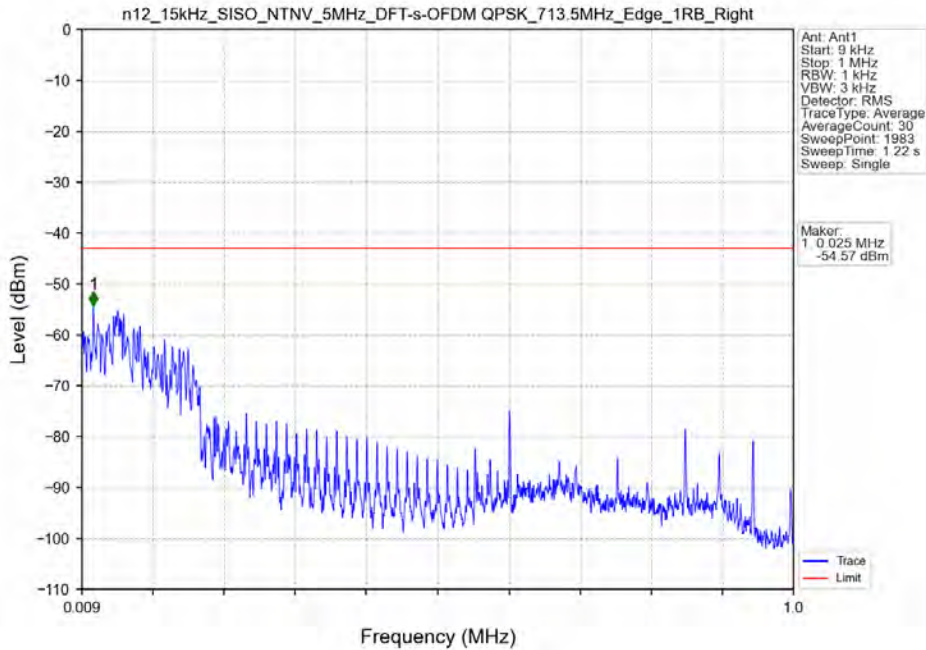
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n12_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_713.5MHz_Edge_1RB_Right



n12_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_713.5MHz_Edge_1RB_Right



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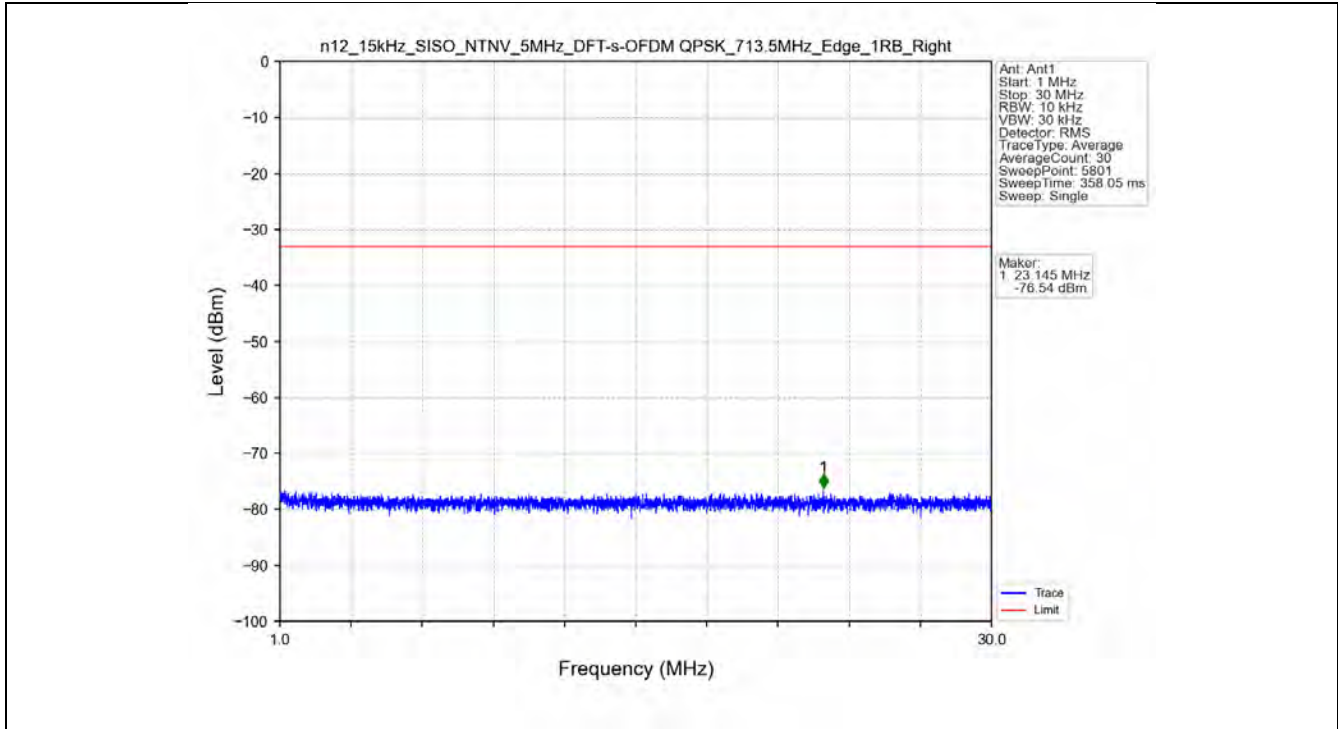


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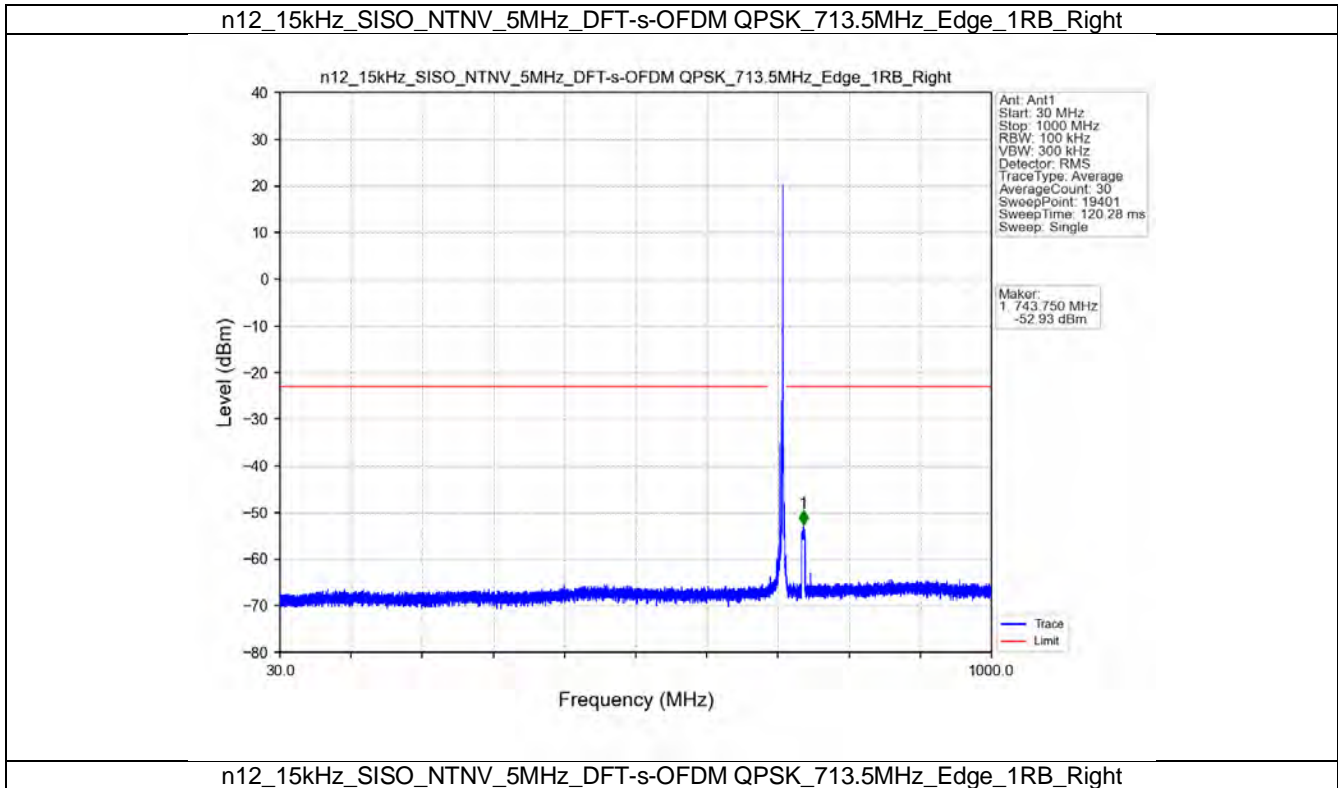


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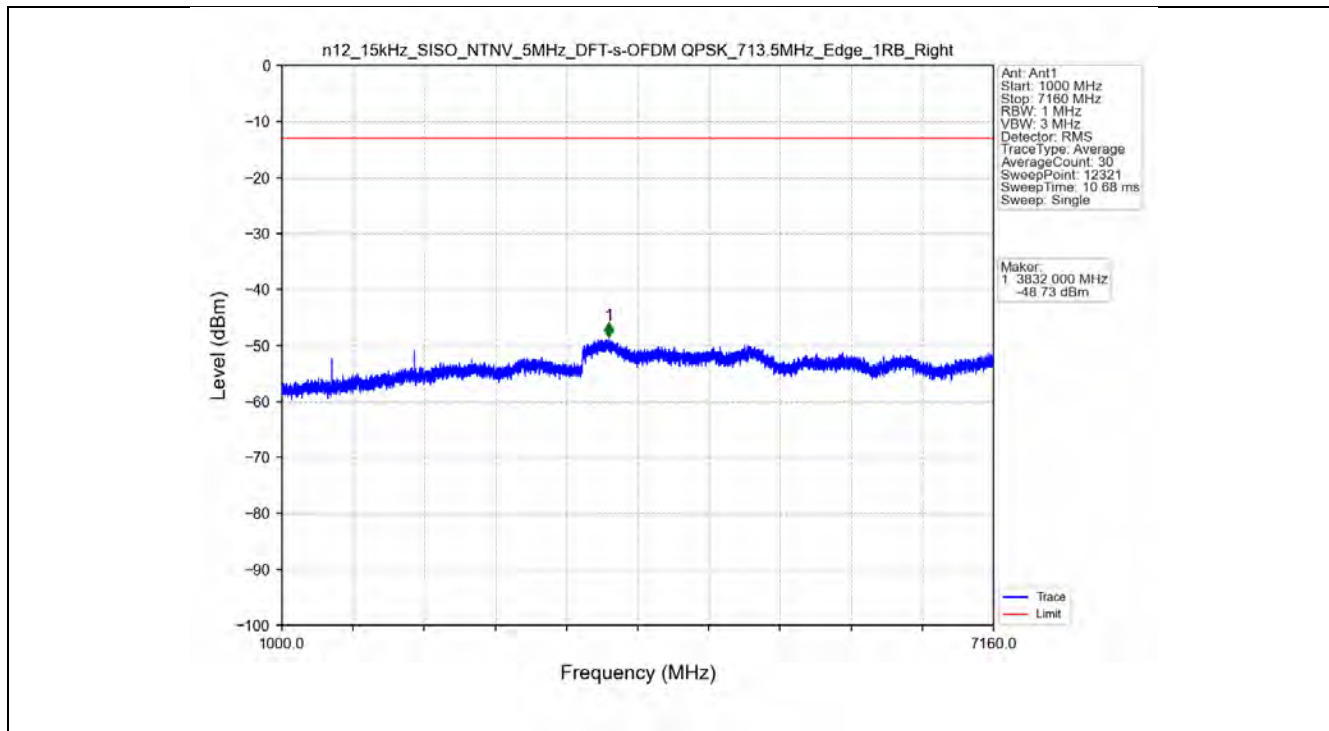
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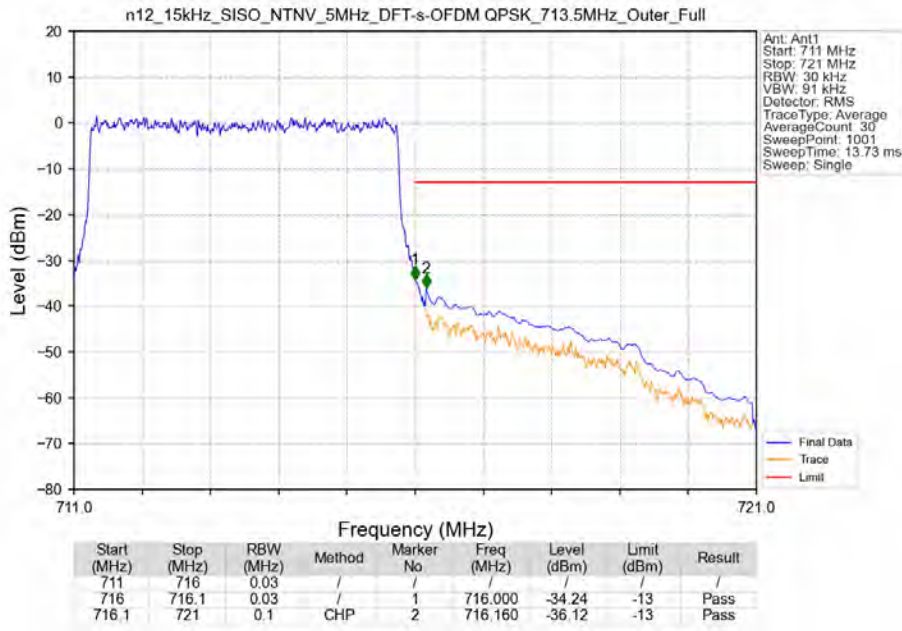
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n12_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_713.5MHz_Inner_1RB_Right



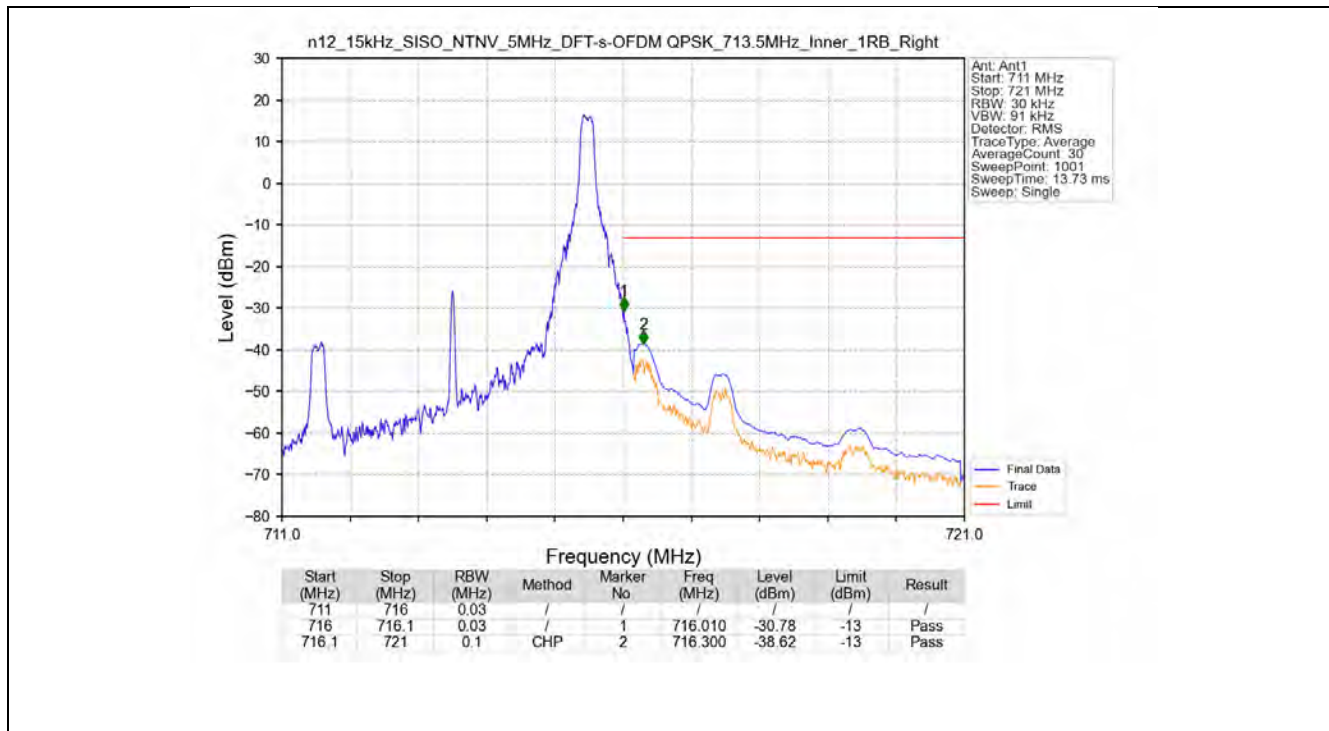
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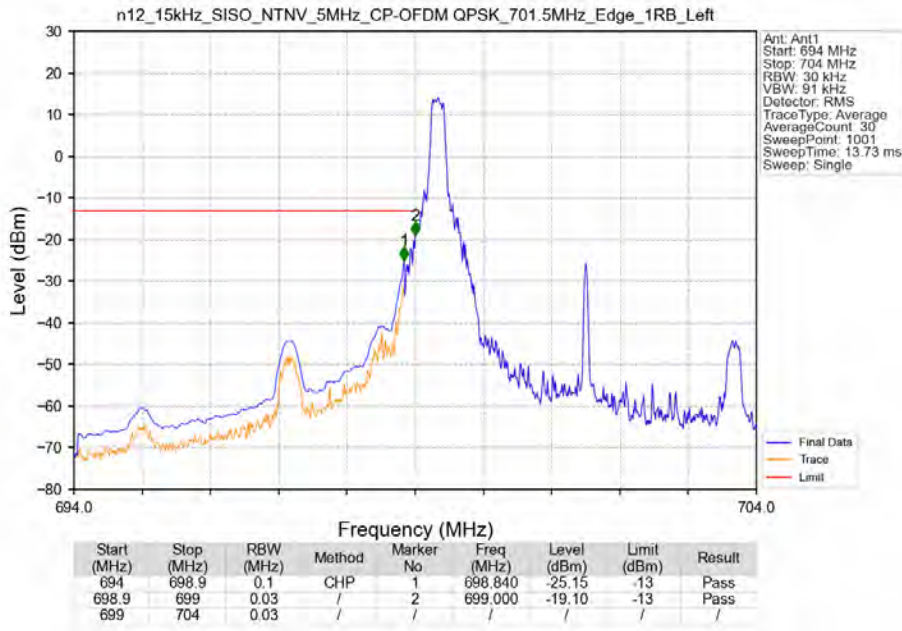
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n12_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_701.5MHz_Edge_1RB_Left



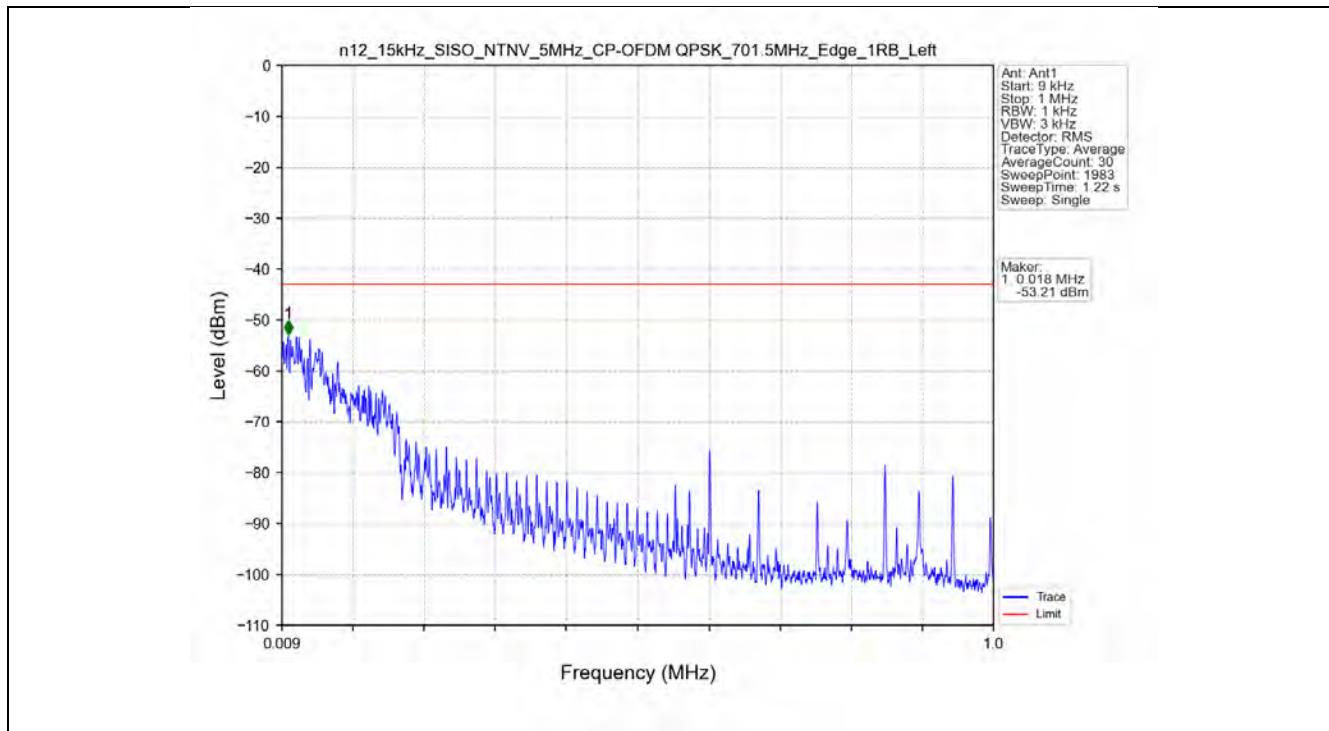
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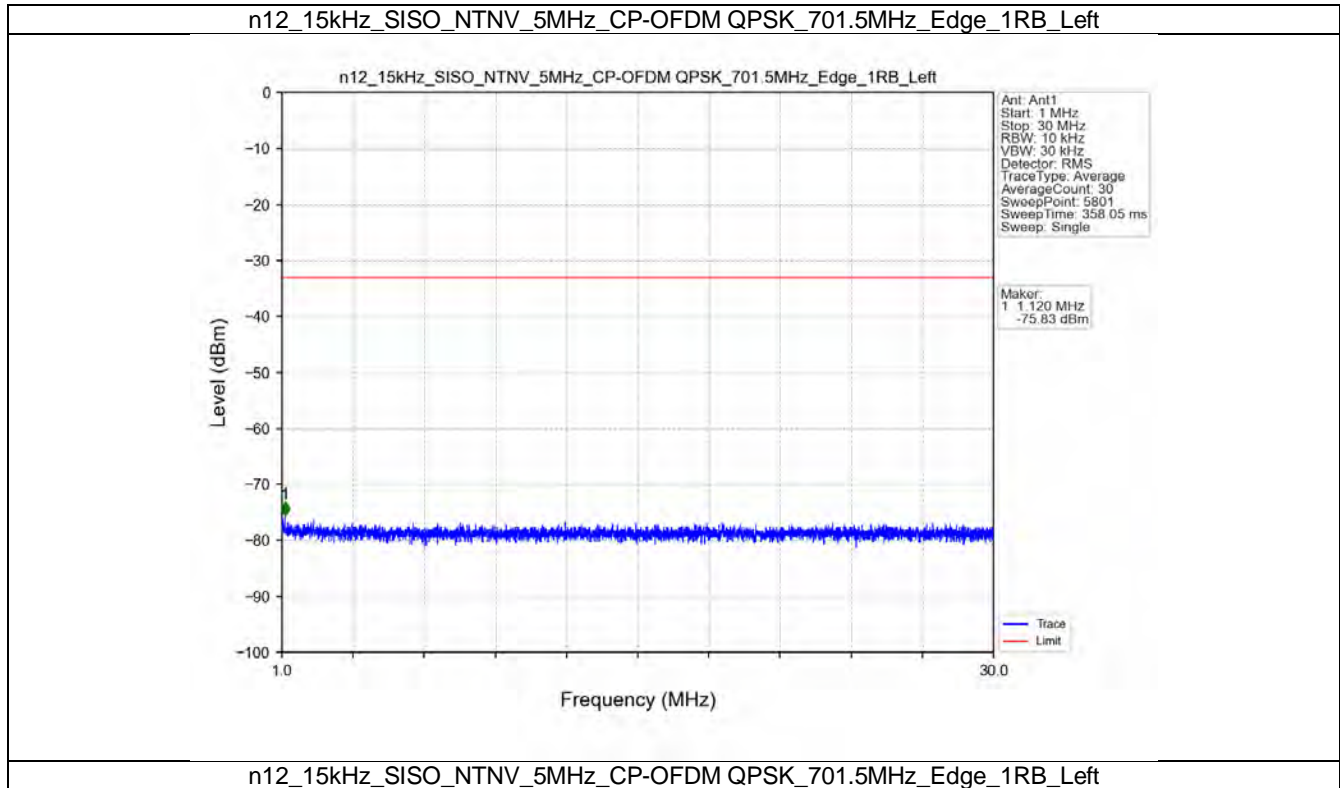


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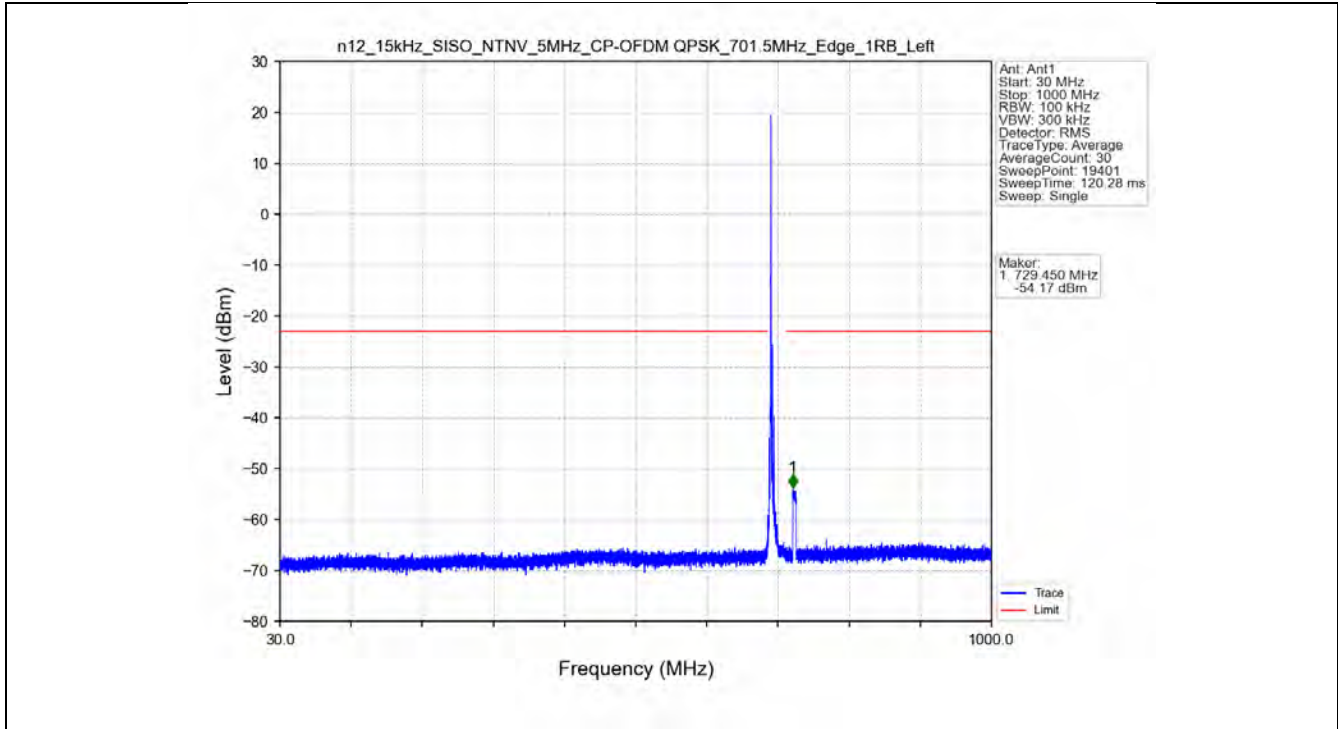


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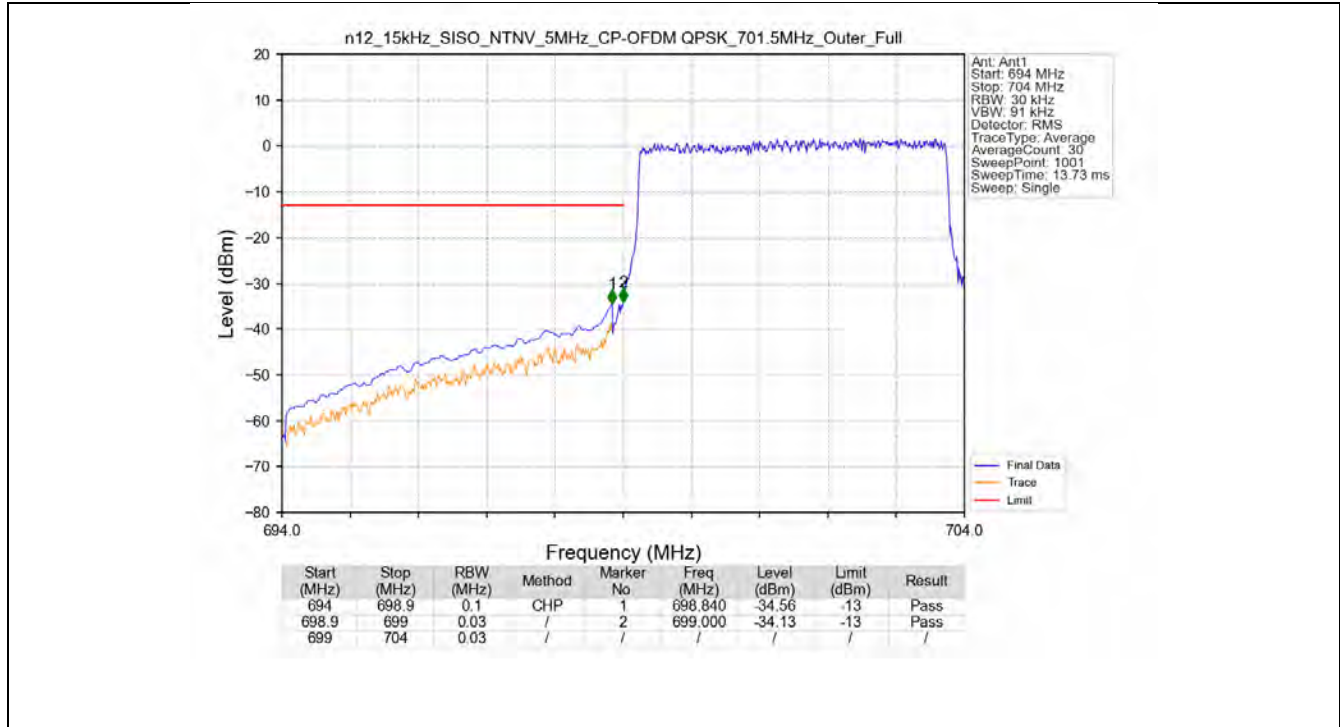


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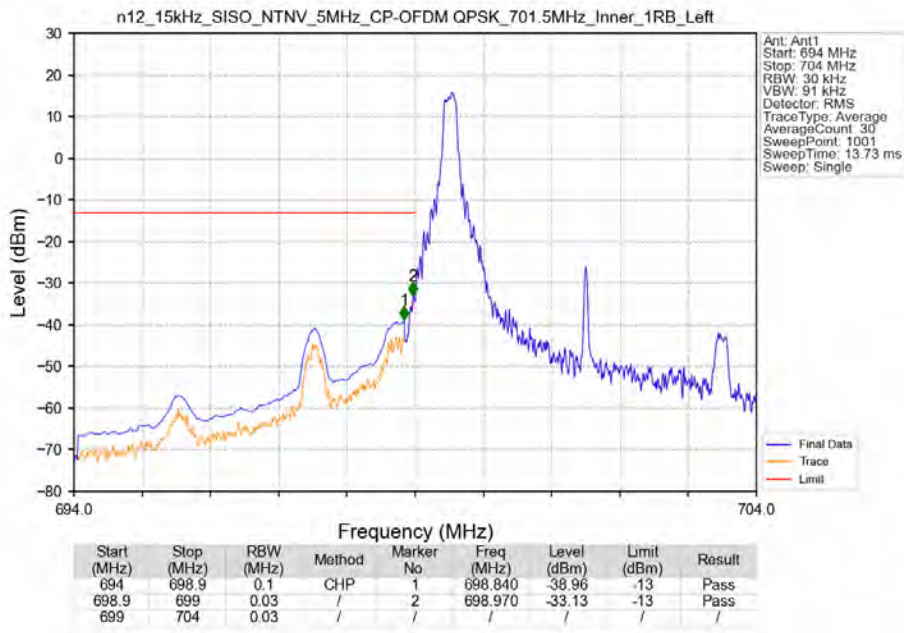
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n12_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_707.5MHz_Edge_1RB_Left



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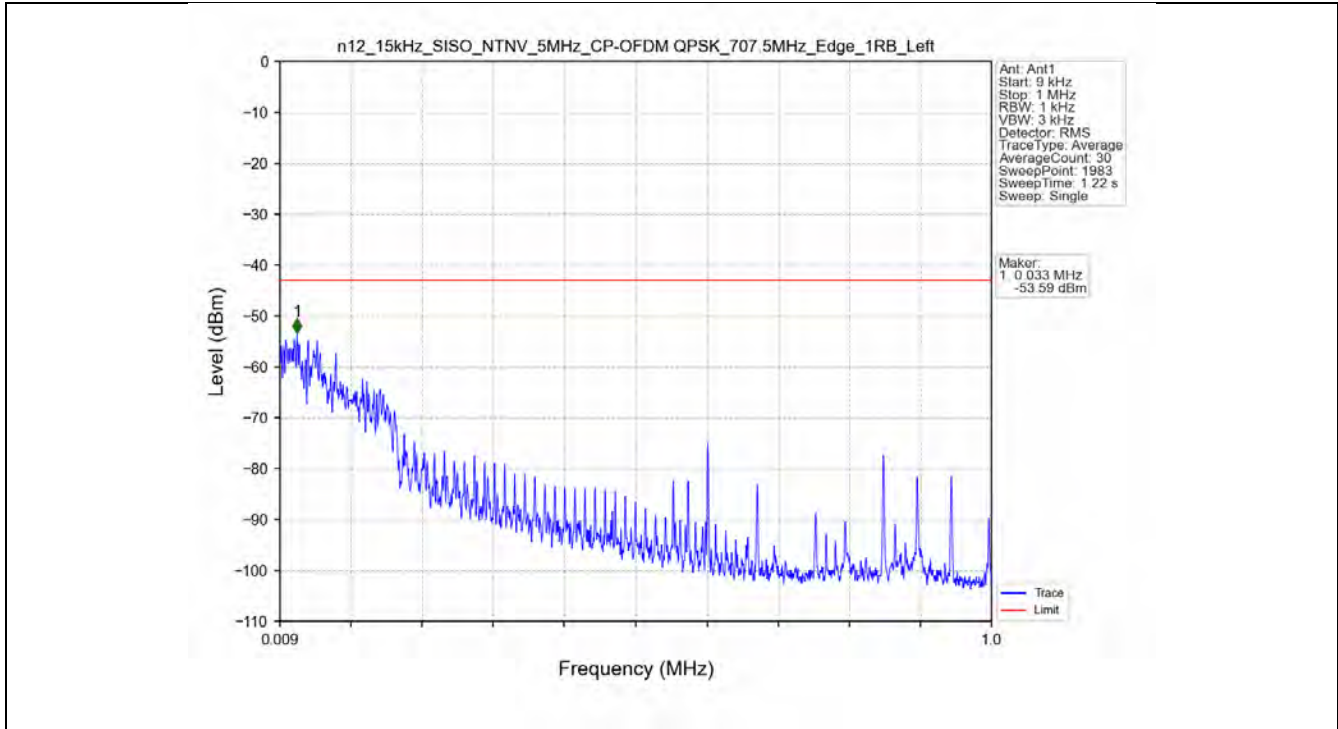


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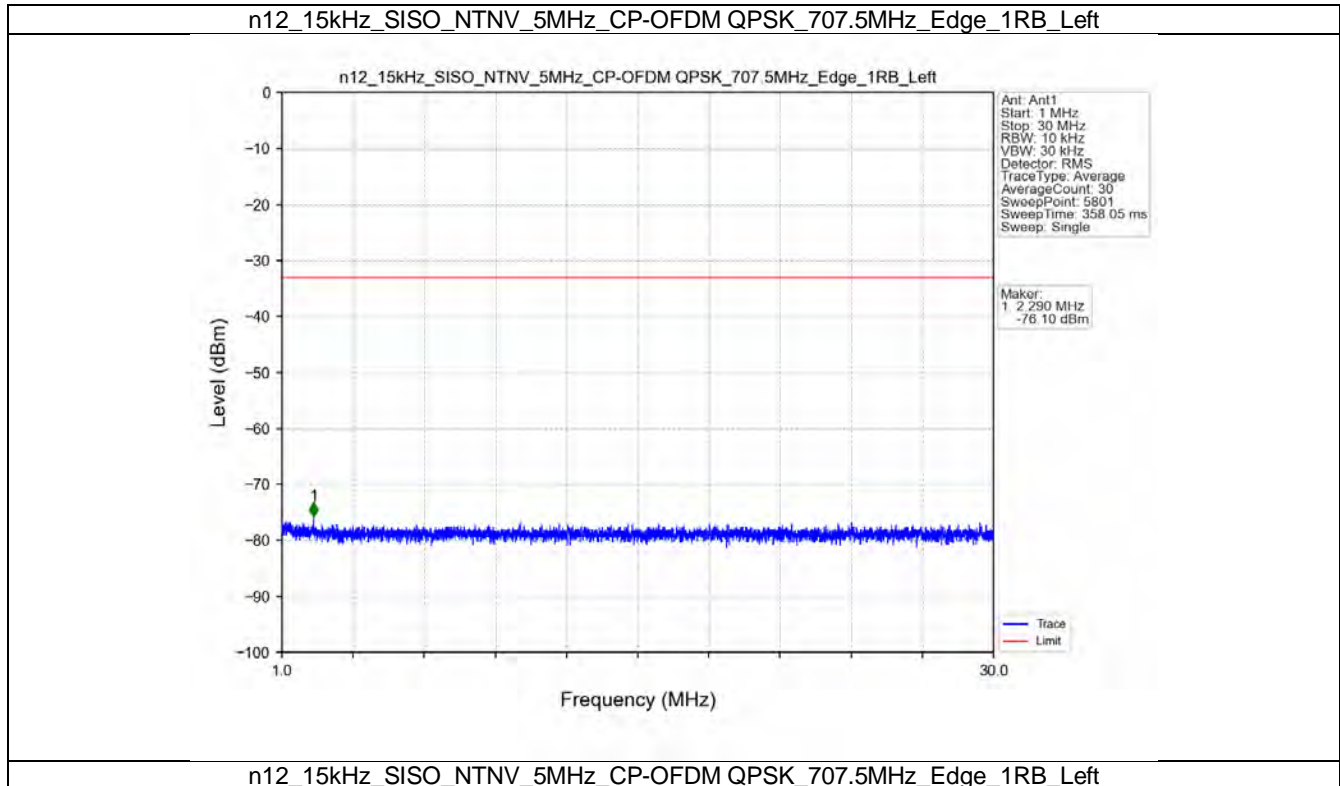


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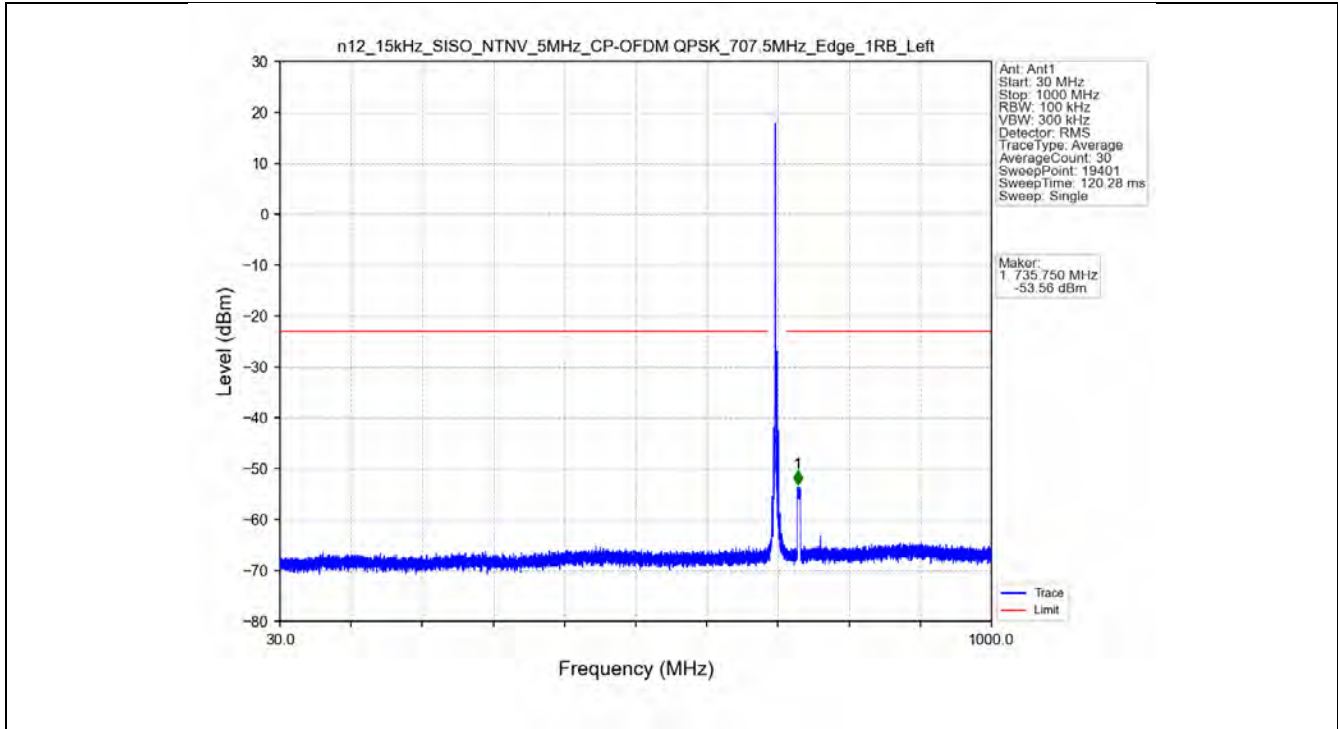


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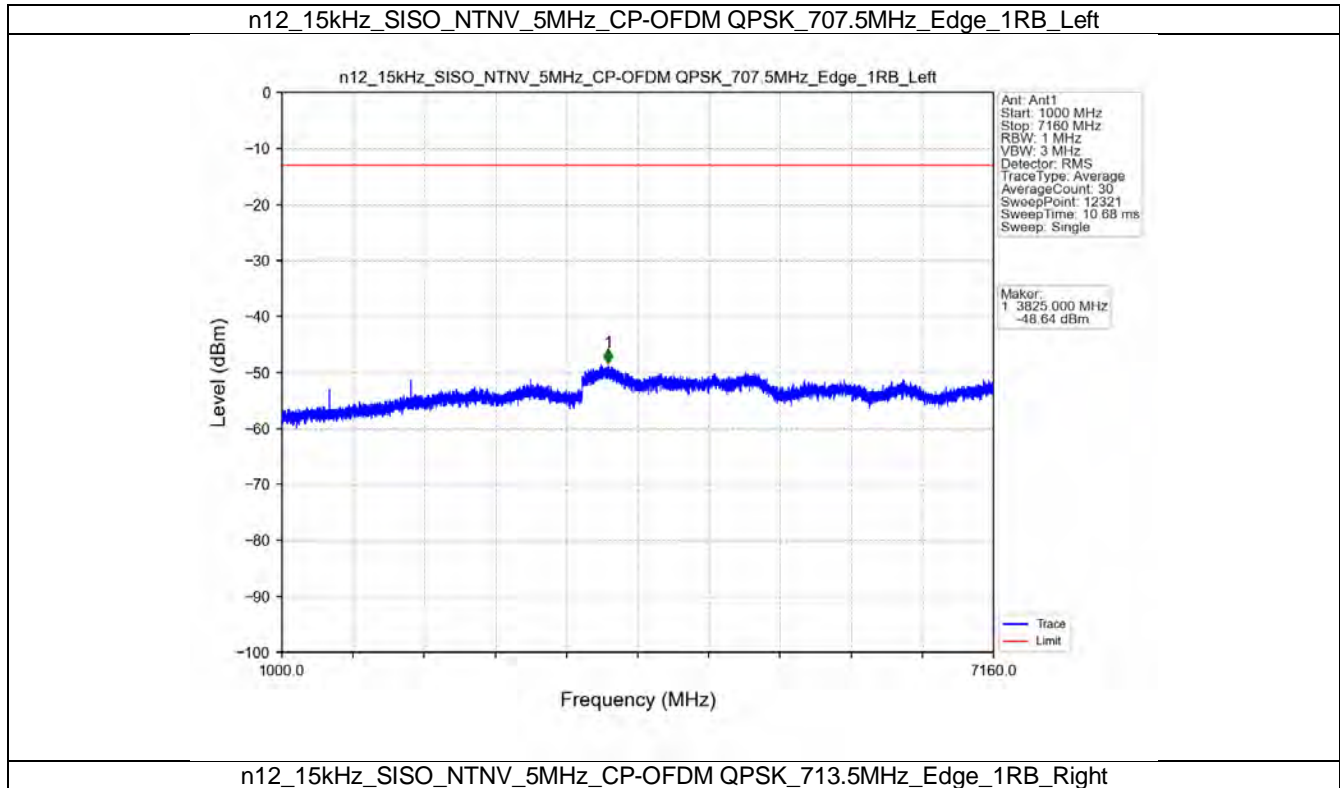


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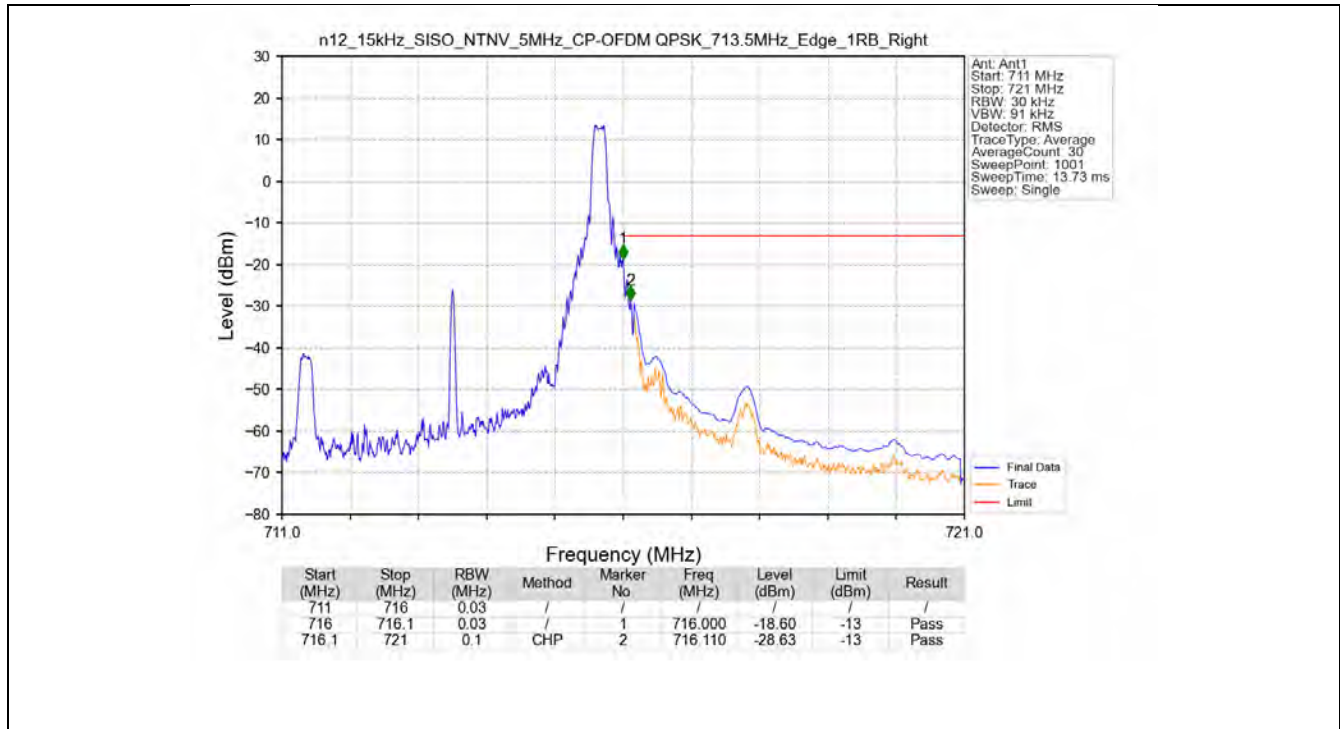


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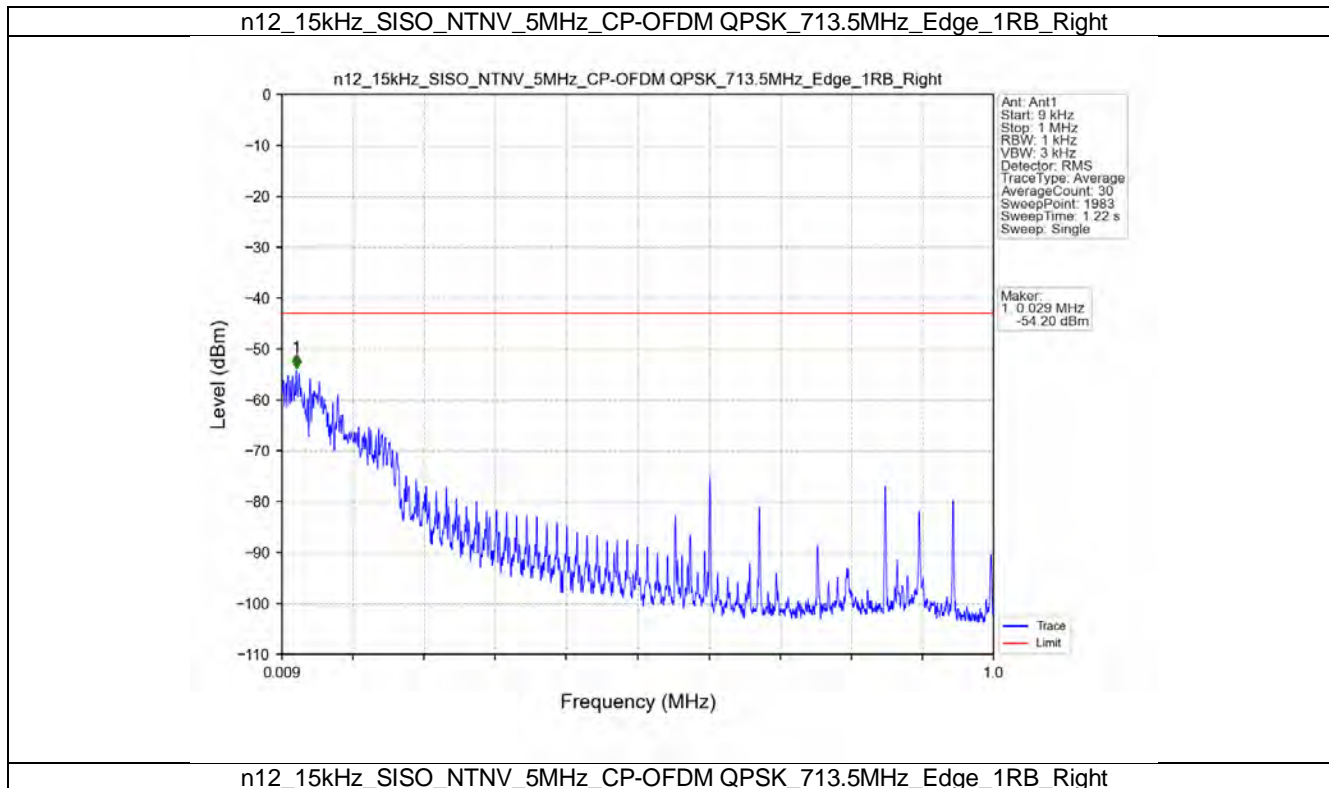
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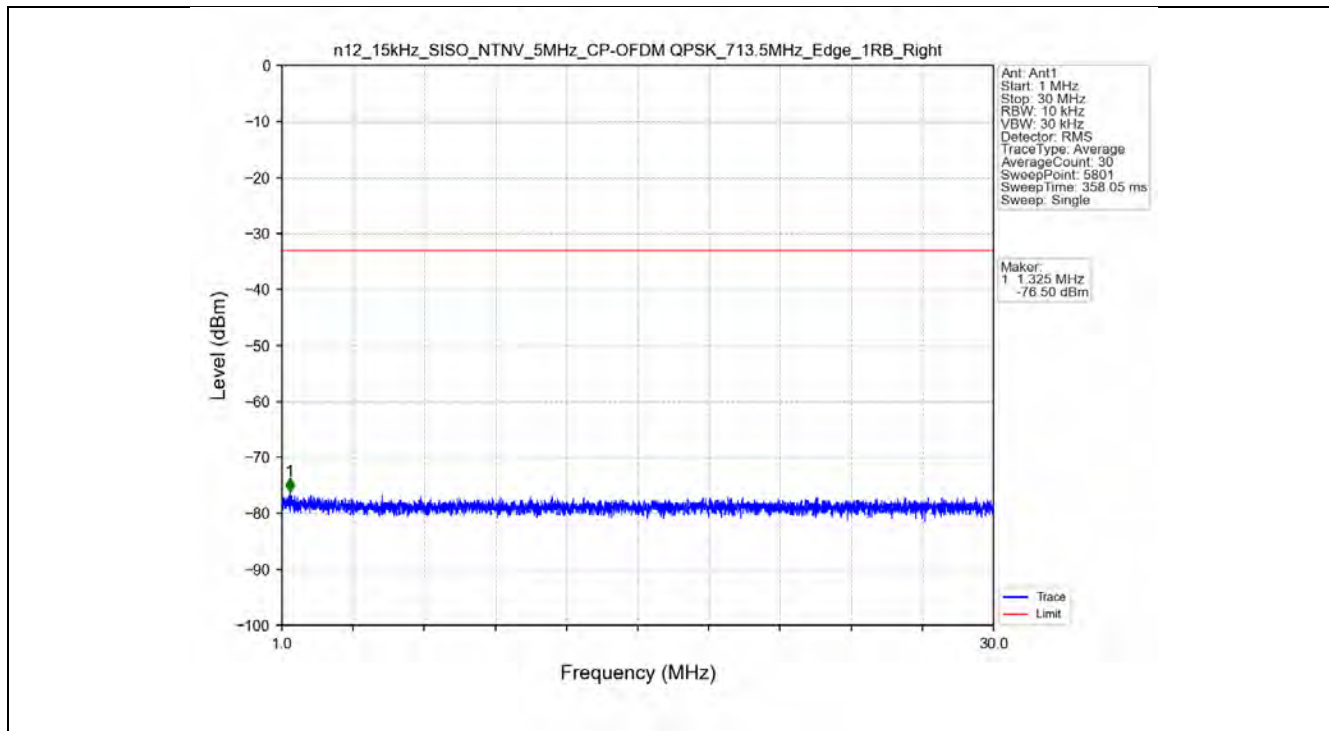
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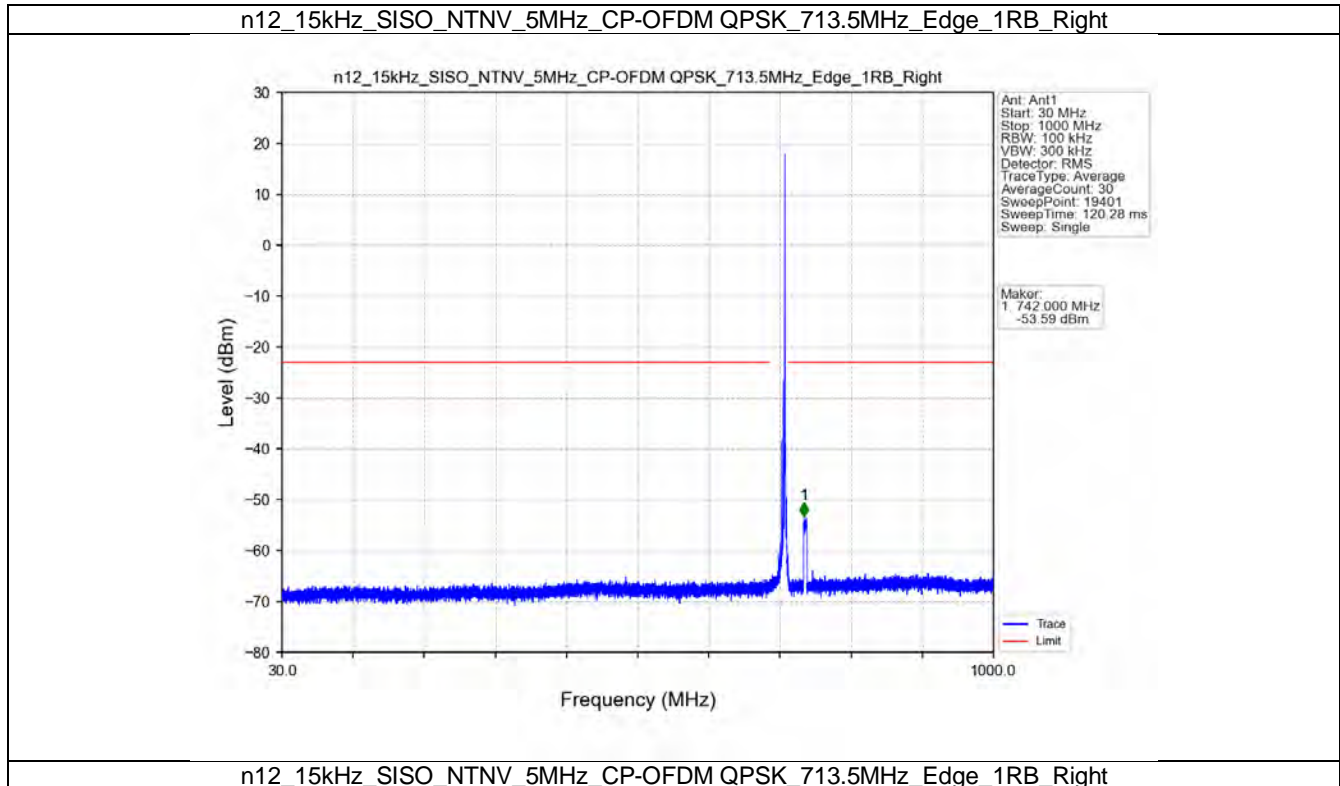


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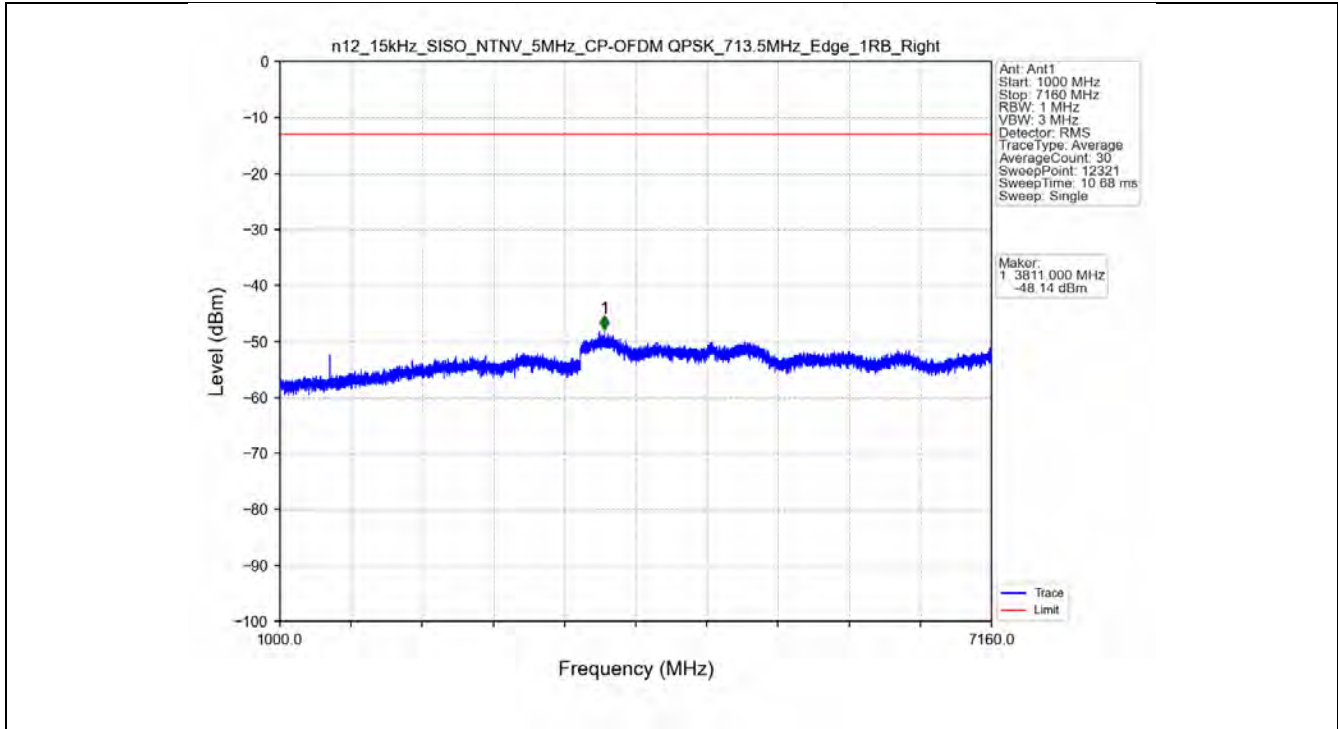


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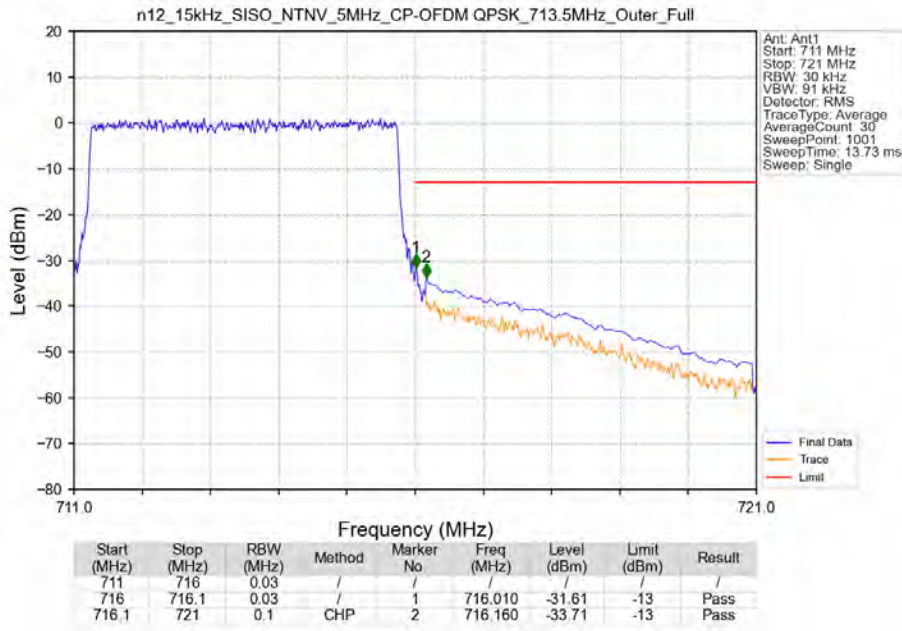
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n12_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_713.5MHz_Outer_Full



n12_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_713.5MHz_Inner_1RB_Right



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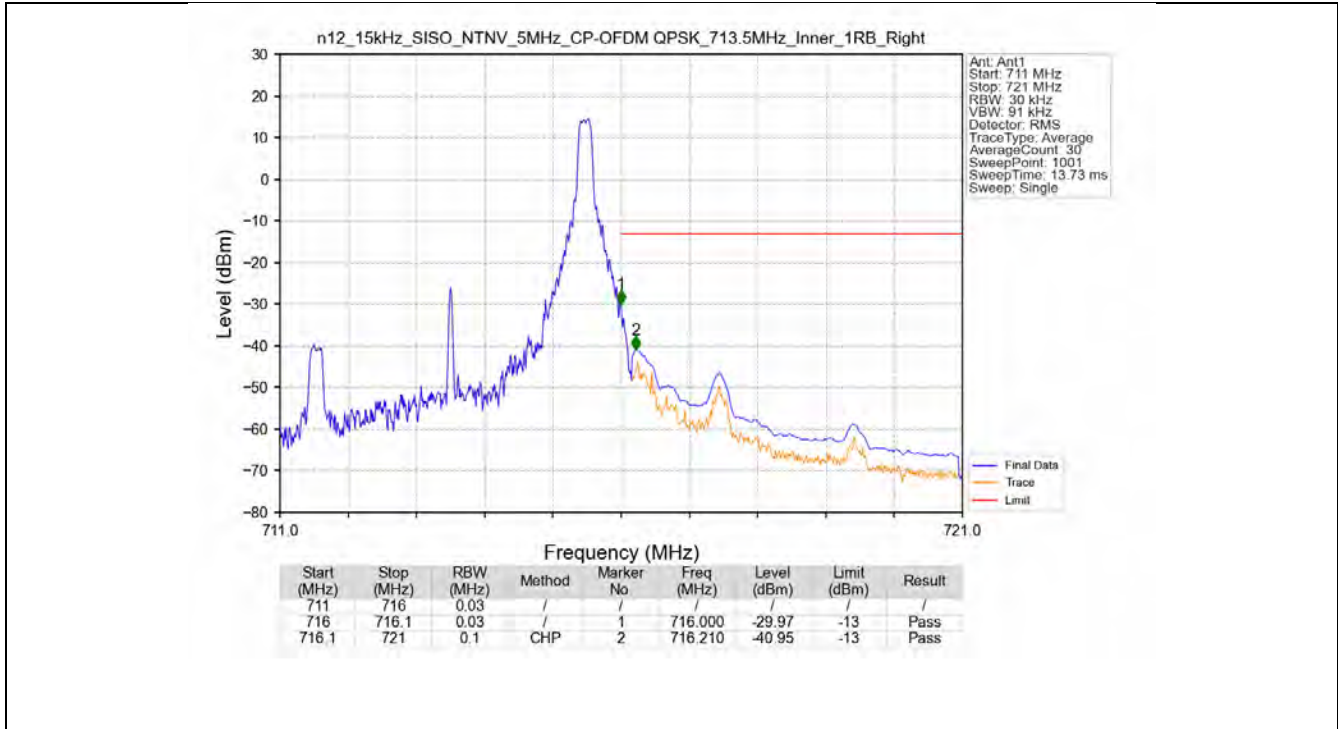


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5.2 15k_SISO_10MHz_NTNV

5.2.1 Test Result

| 5G NR n12 SCS=15kHz SISO 10MHz NTV | | | | | | | |
|------------------------------------|-----------------|---------------------|---------------------|------|-----|-------|---------|
| Modulation | Frequency (MHz) | RB Allocation | Spurious Emission | | | | Verdict |
| | | | Ant1 | Ant2 | Sum | Limit | |
| DFT-s-OFDM PI/2 BPSK | 704 | Edge_1RB_Left | Refer To Test Graph | | | | Pass |
| | | Outer_Full | Refer To Test Graph | | | | Pass |
| | | Inner_1RB_Left | Refer To Test Graph | | | | Pass |
| | 707.5 | Edge_1RB_Left | Refer To Test Graph | | | | Pass |
| | | Edge_1RB_Right | Refer To Test Graph | | | | Pass |
| | | Outer_Full | Refer To Test Graph | | | | Pass |
| DFT-s-OFDM QPSK | 704 | Inner_1RB_Right | Refer To Test Graph | | | | Pass |
| | | Edge_1RB_Left | Refer To Test Graph | | | | Pass |
| | | Outer_Full | Refer To Test Graph | | | | Pass |
| | 707.5 | Inner_1RB_Left | Refer To Test Graph | | | | Pass |
| | | Edge_1RB_Left | Refer To Test Graph | | | | Pass |
| | | Edge_1RB_Right | Refer To Test Graph | | | | Pass |
| CP-OFDM QPSK | 711 | Outer_Full | Refer To Test Graph | | | | Pass |
| | | Inner_1RB_Right | Refer To Test Graph | | | | Pass |
| | | Edge_1RB_Left | Refer To Test Graph | | | | Pass |
| | 704 | Outer_Full | Refer To Test Graph | | | | Pass |
| | | Inner_1RB_Left | Refer To Test Graph | | | | Pass |
| | | Edge_1RB_Left | Refer To Test Graph | | | | Pass |
| 707.5 | Edge_1RB_Left | Refer To Test Graph | | | | Pass | |
| | Edge_1RB_Right | Refer To Test Graph | | | | Pass | |
| | Outer_Full | Refer To Test Graph | | | | Pass | |
| 711 | Inner_1RB_Right | Refer To Test Graph | | | | Pass | |
| | Outer_Full | Refer To Test Graph | | | | Pass | |
| | Inner_1RB_Right | Refer To Test Graph | | | | Pass | |



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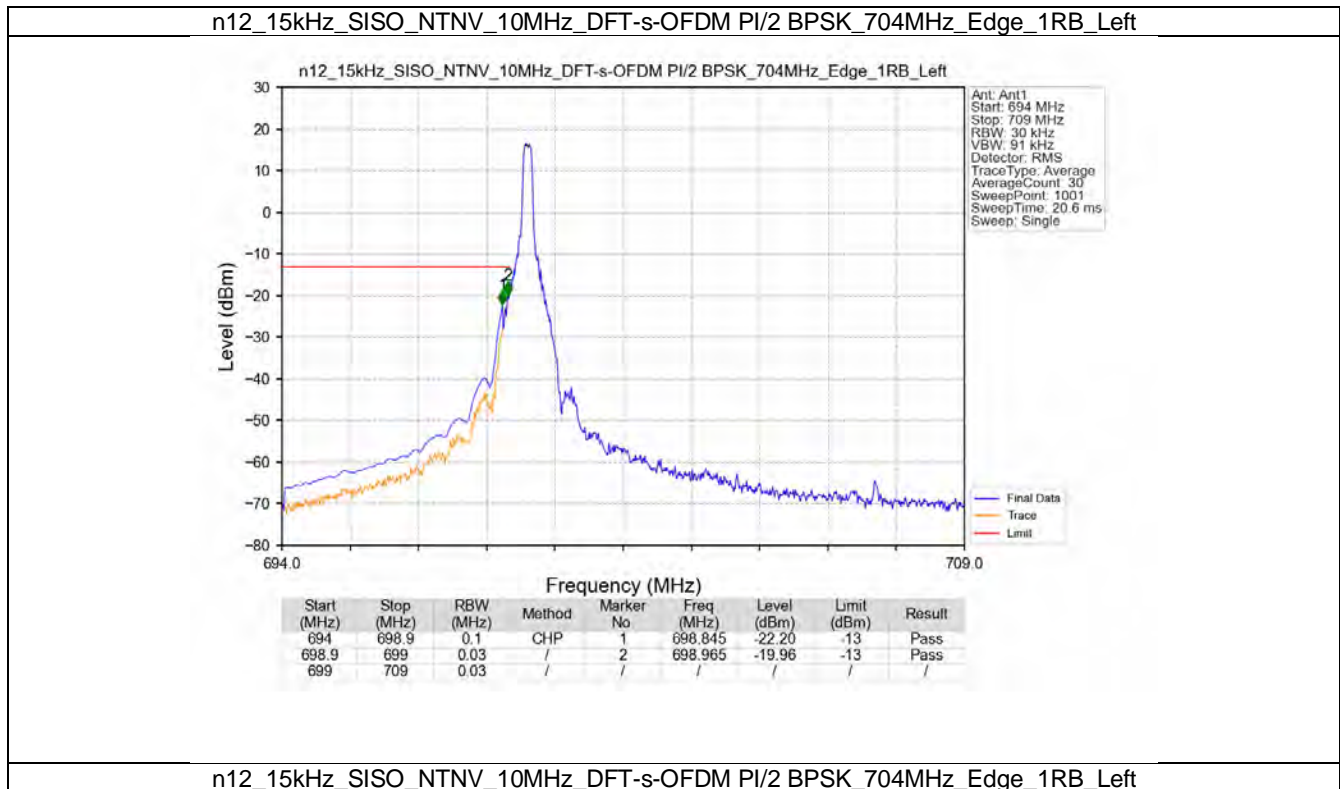
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5.2.2 Test Graph



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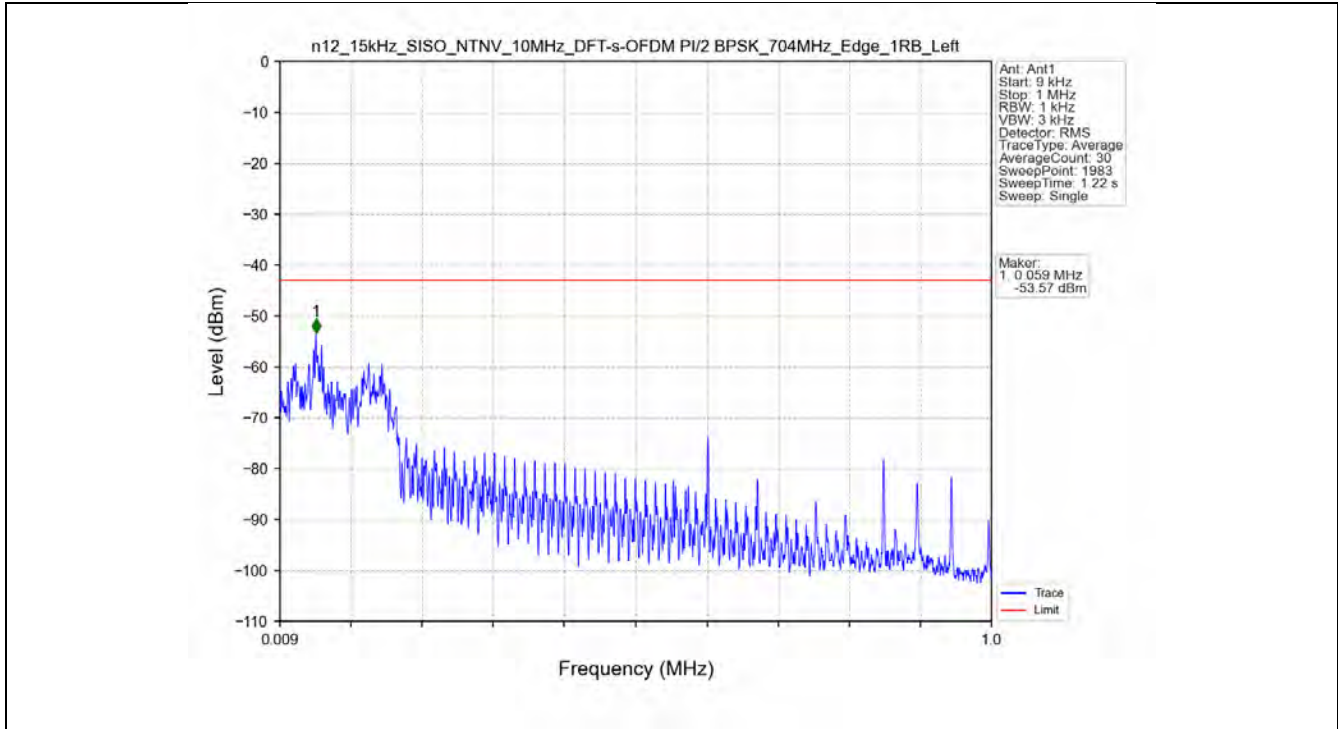


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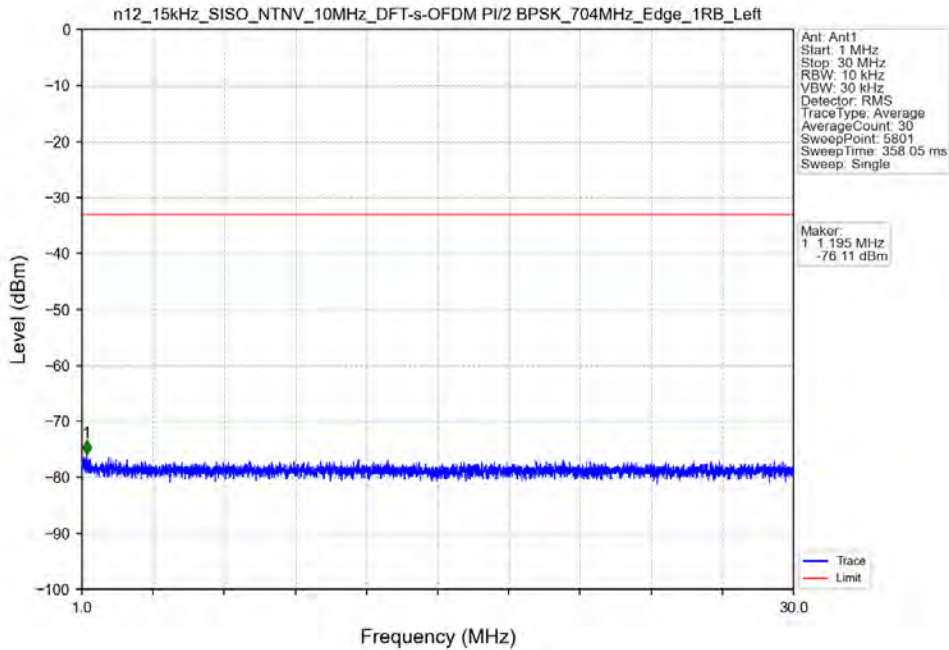
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n12_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_704MHz_Edge_1RB_Left



n12_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_704MHz_Edge_1RB_Left



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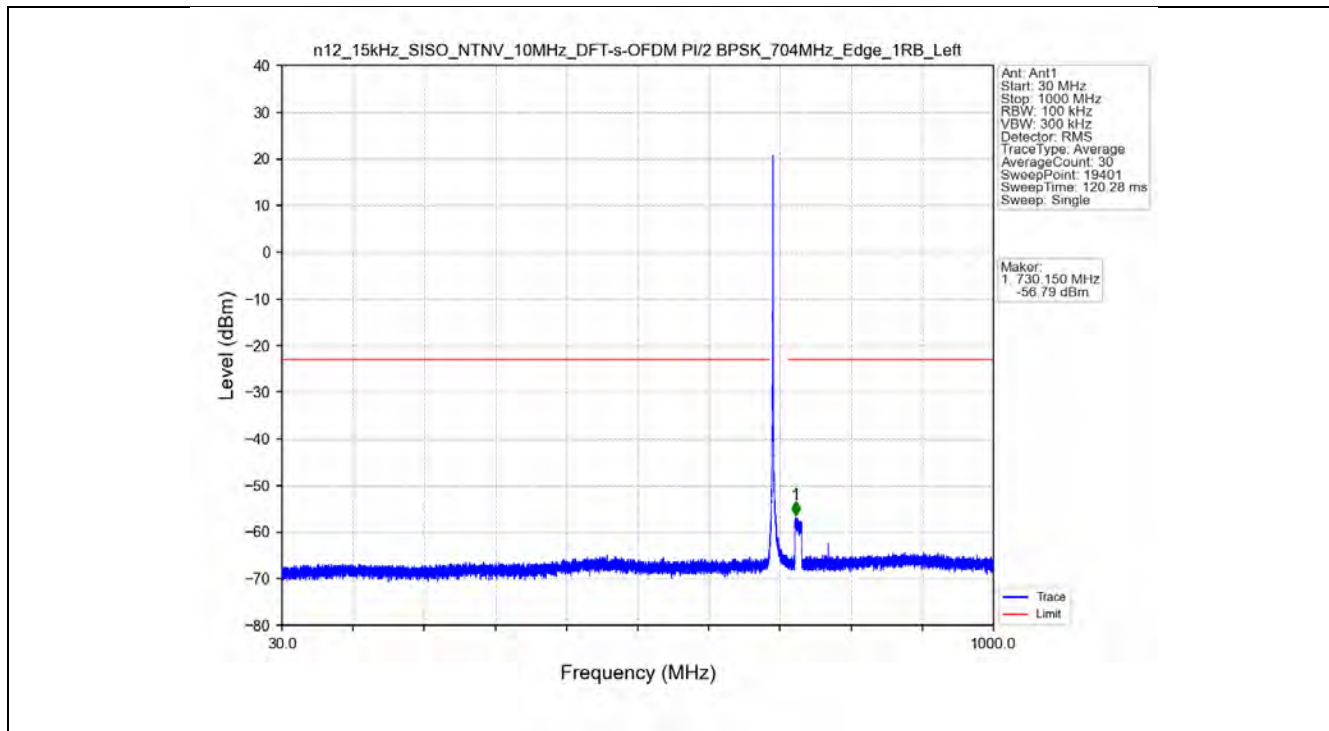
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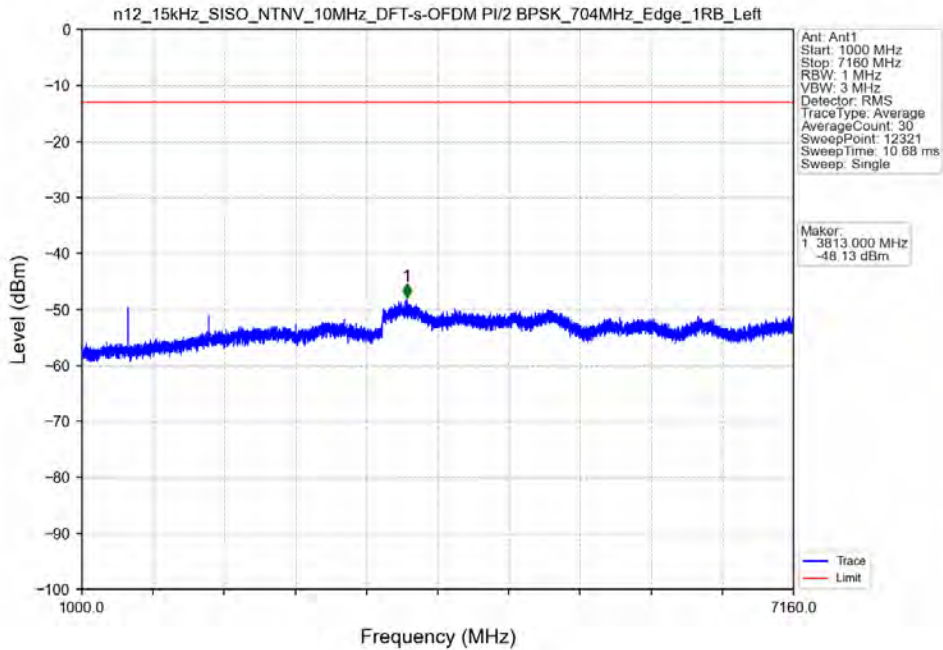
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n12_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_704MHz_Outer_Full



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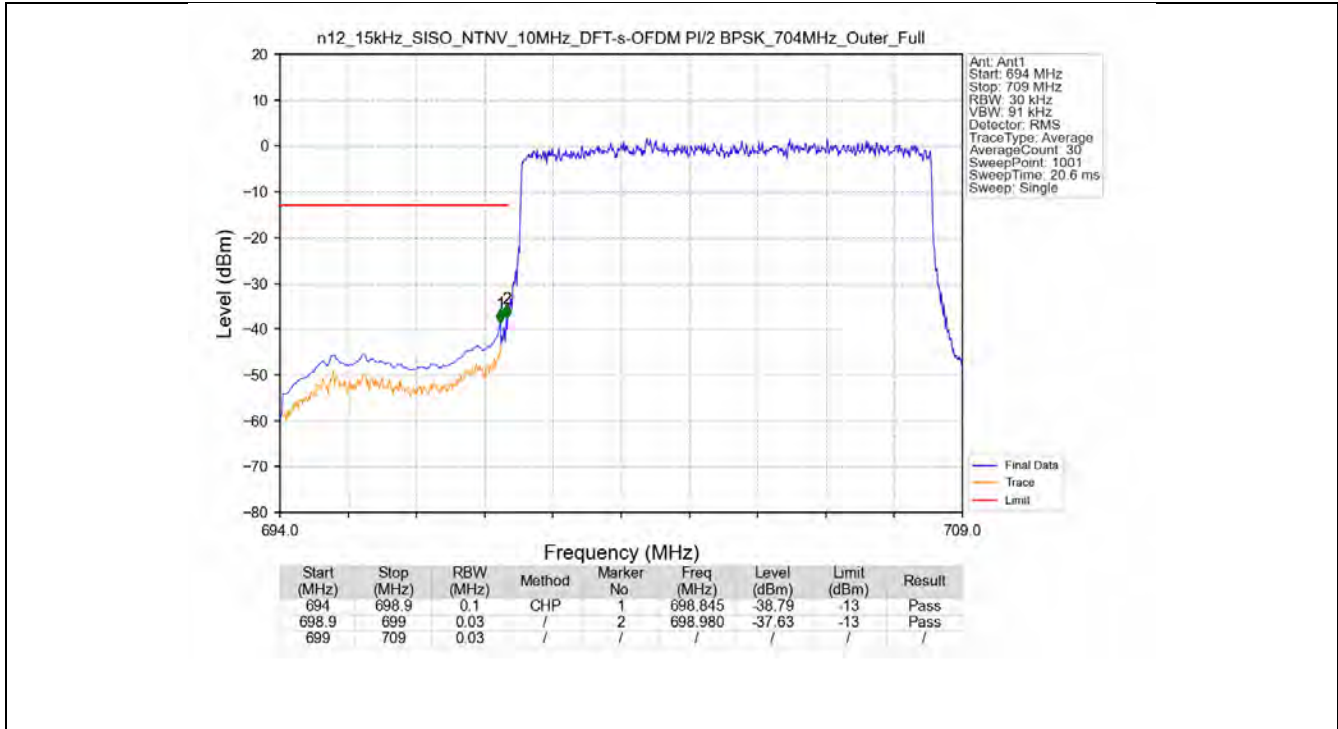


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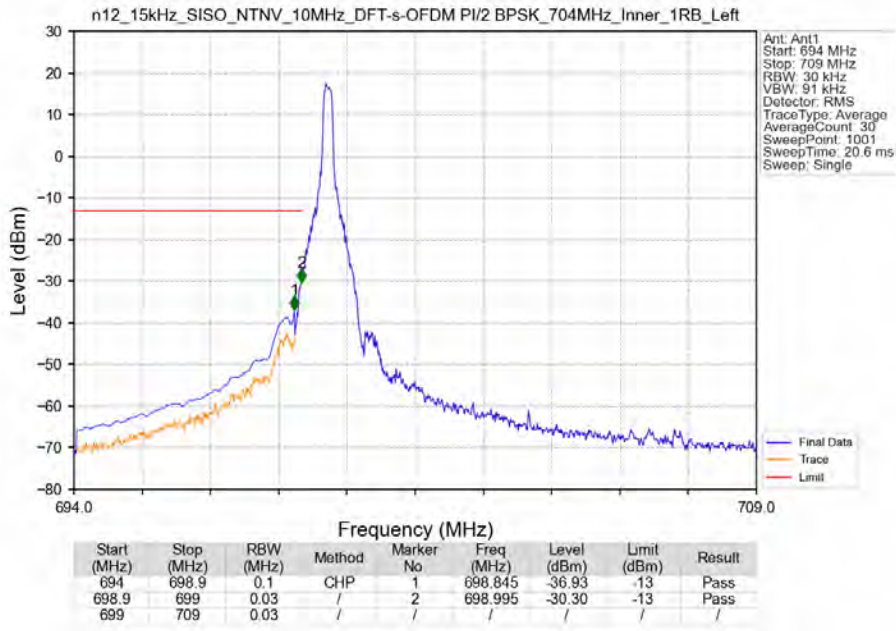
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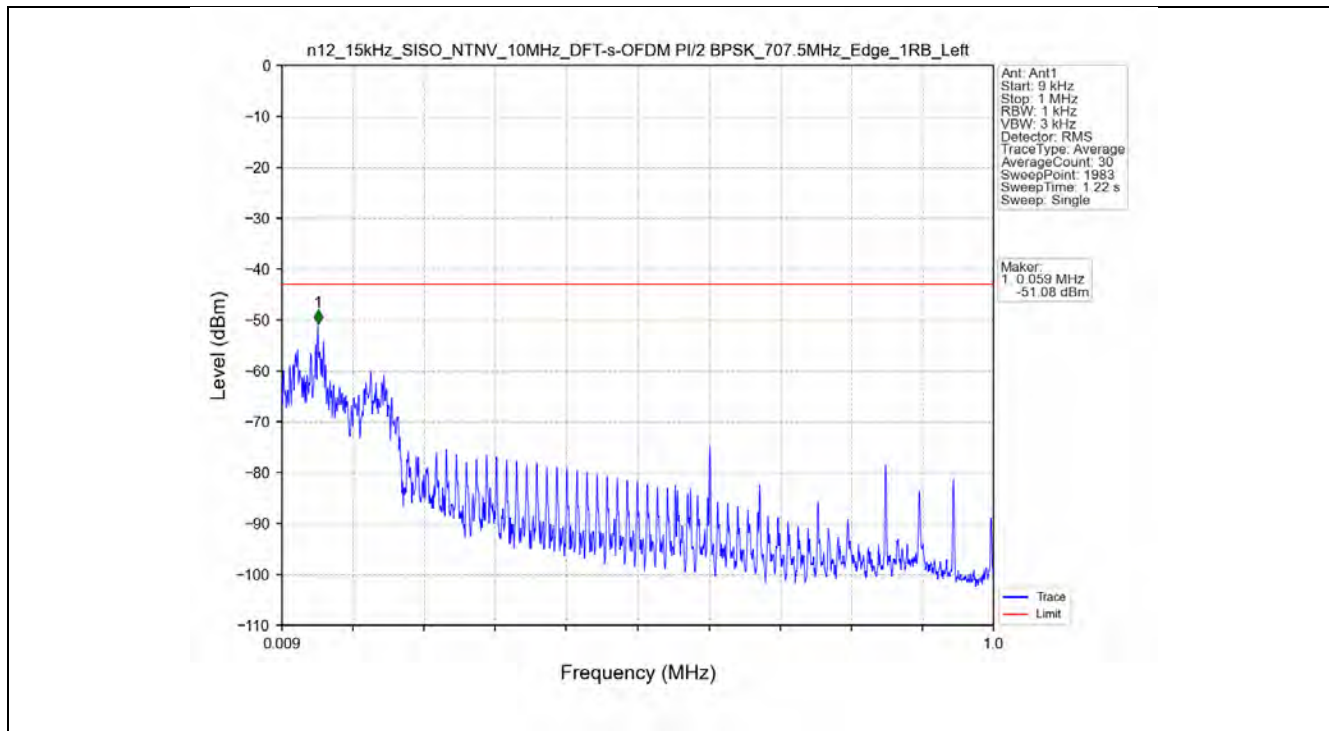
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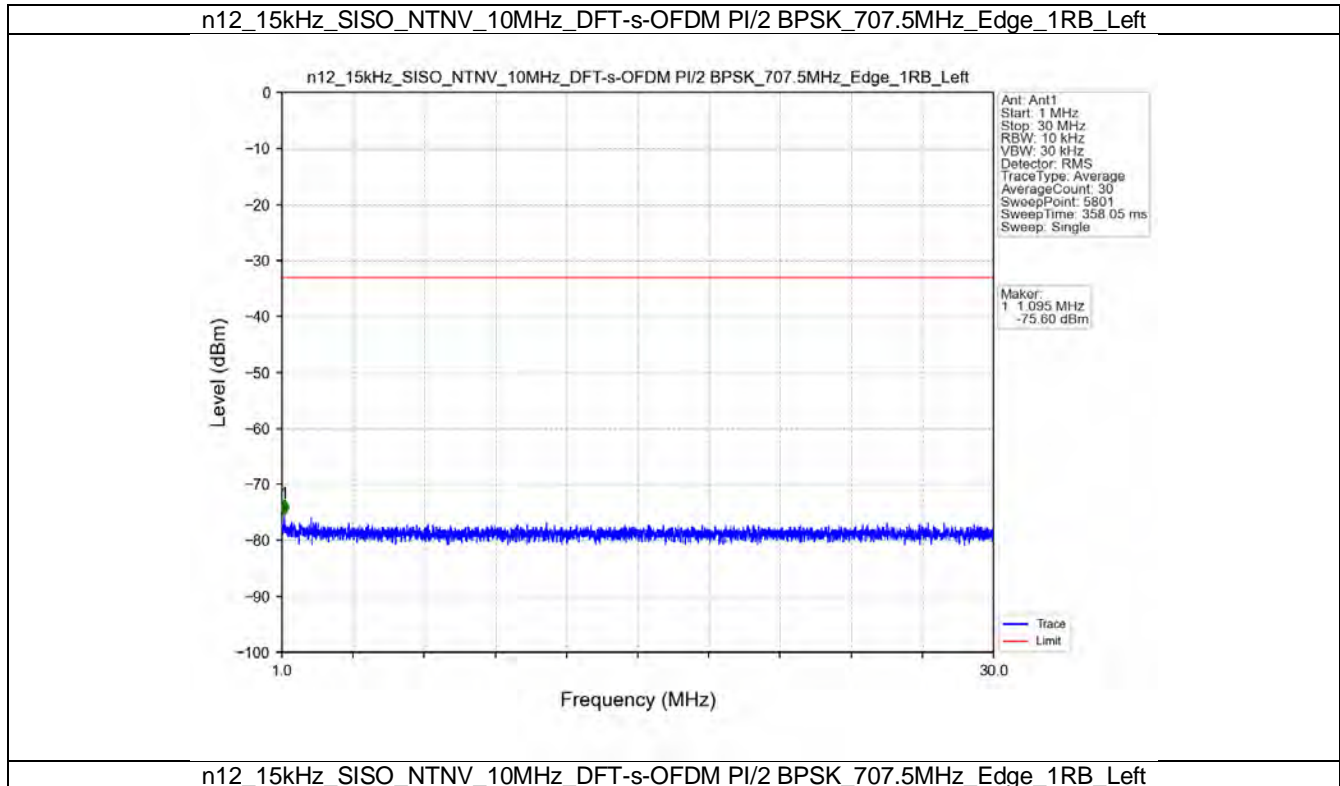


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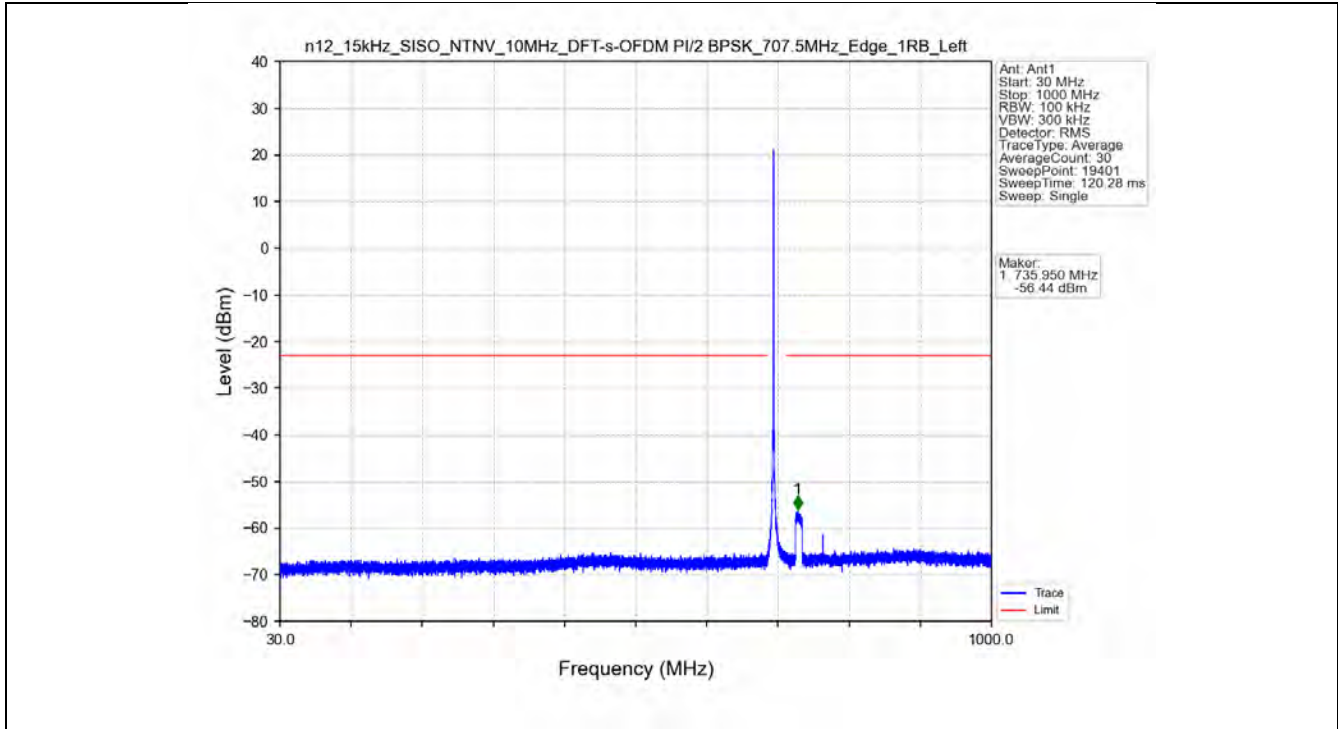


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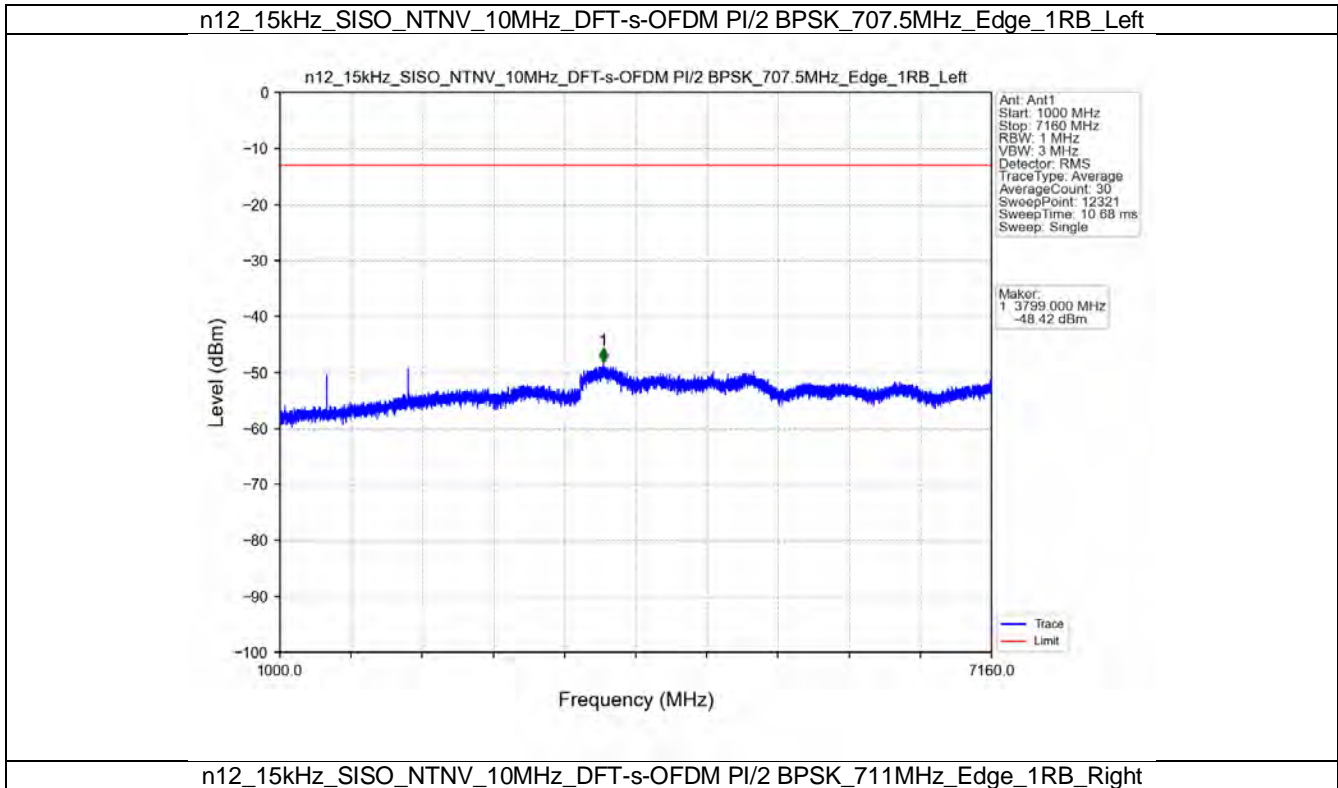


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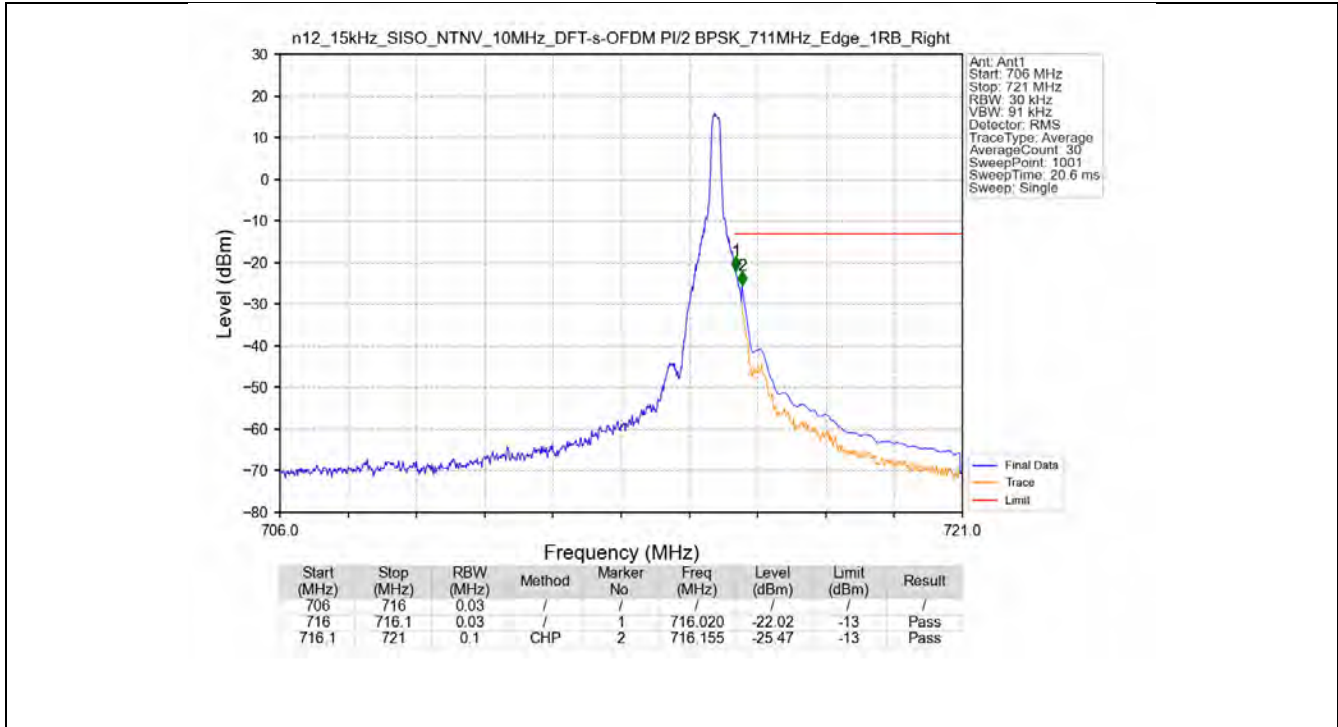


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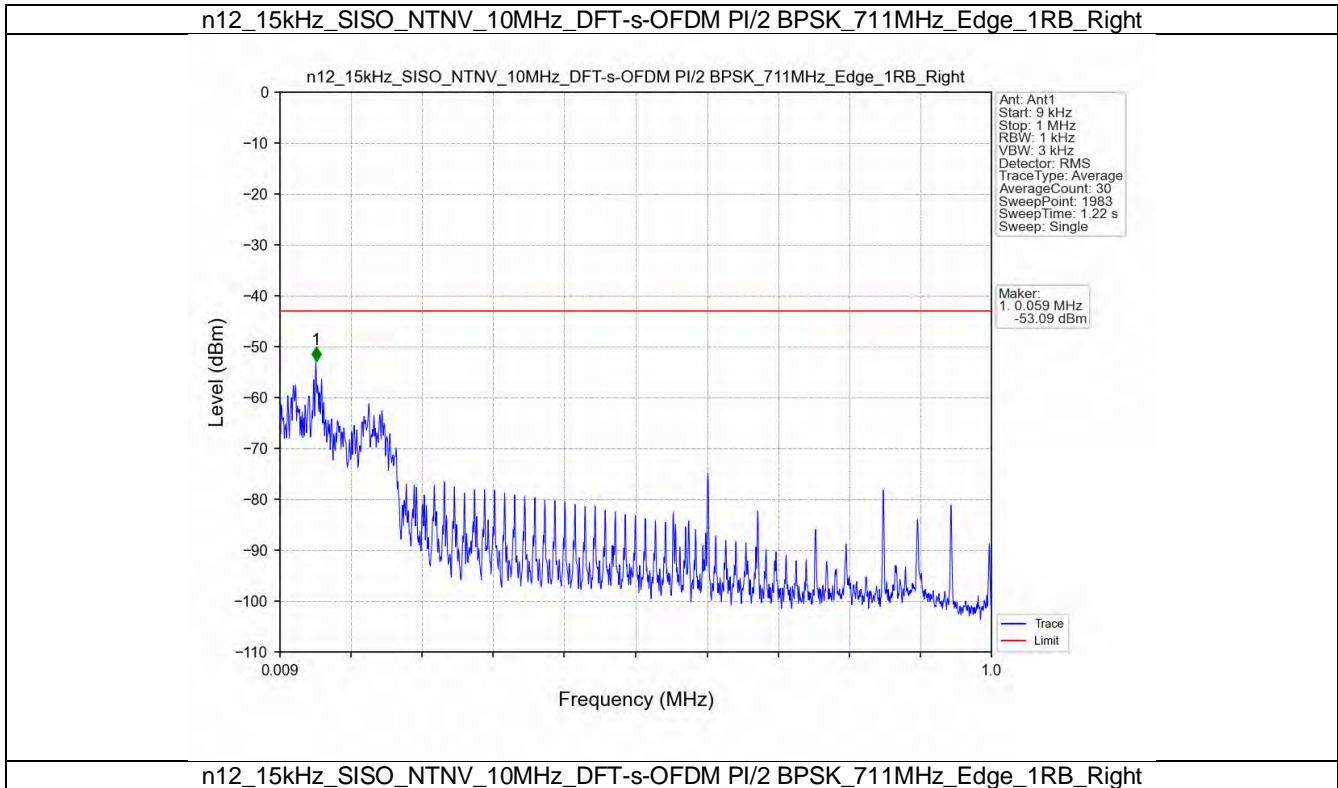


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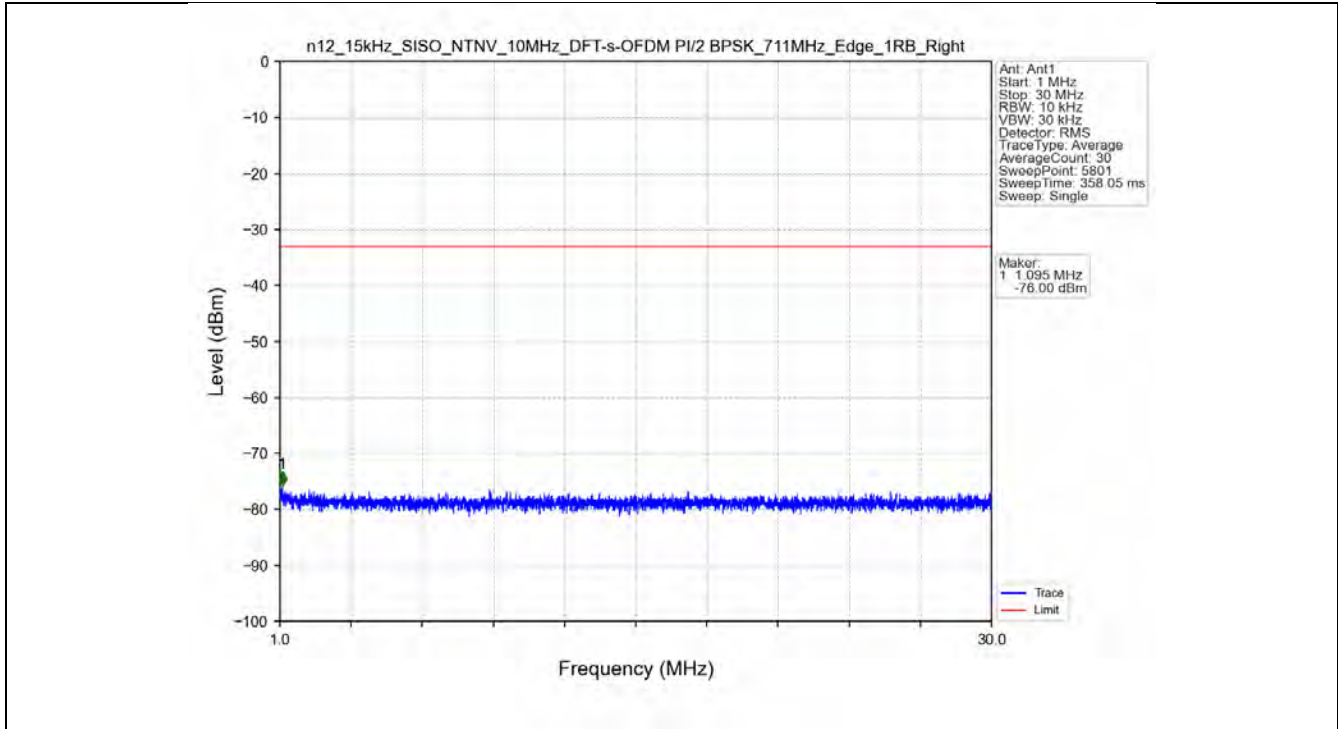


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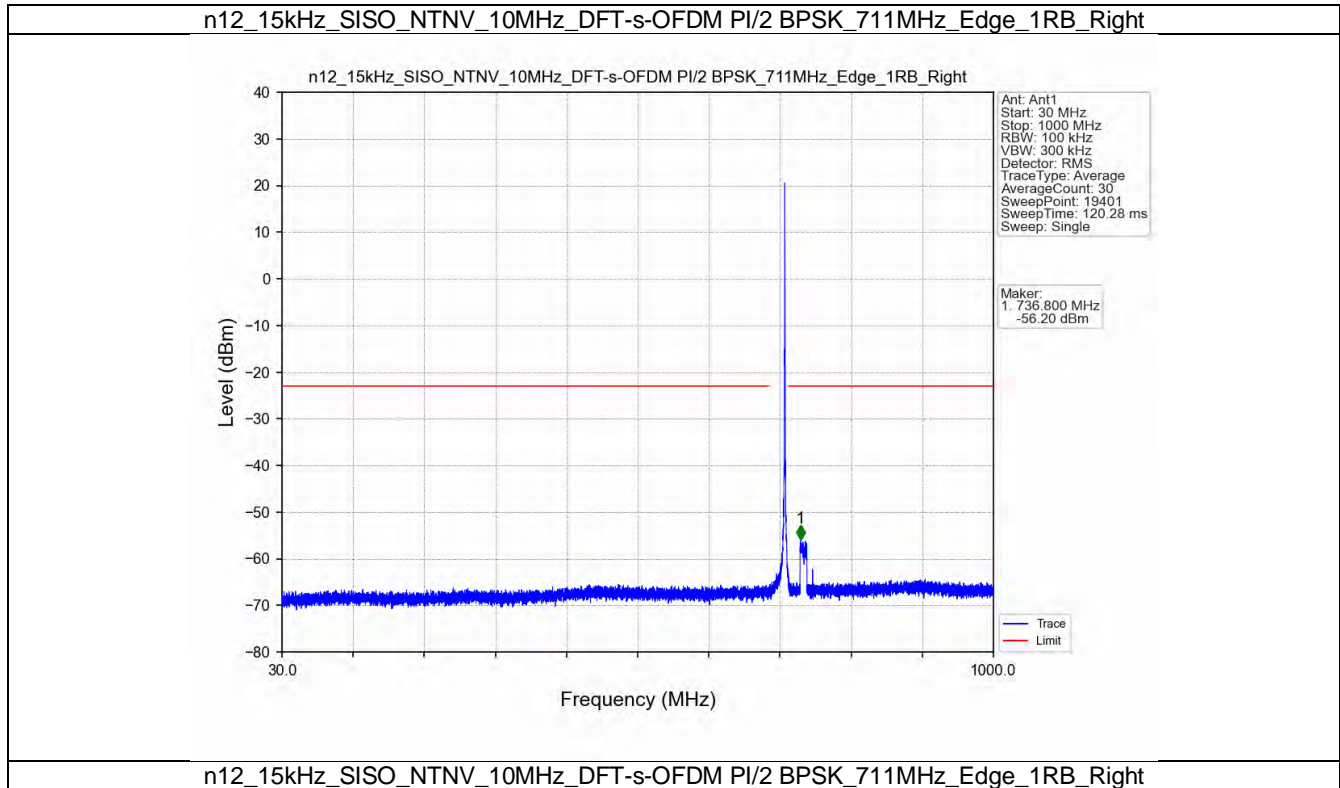


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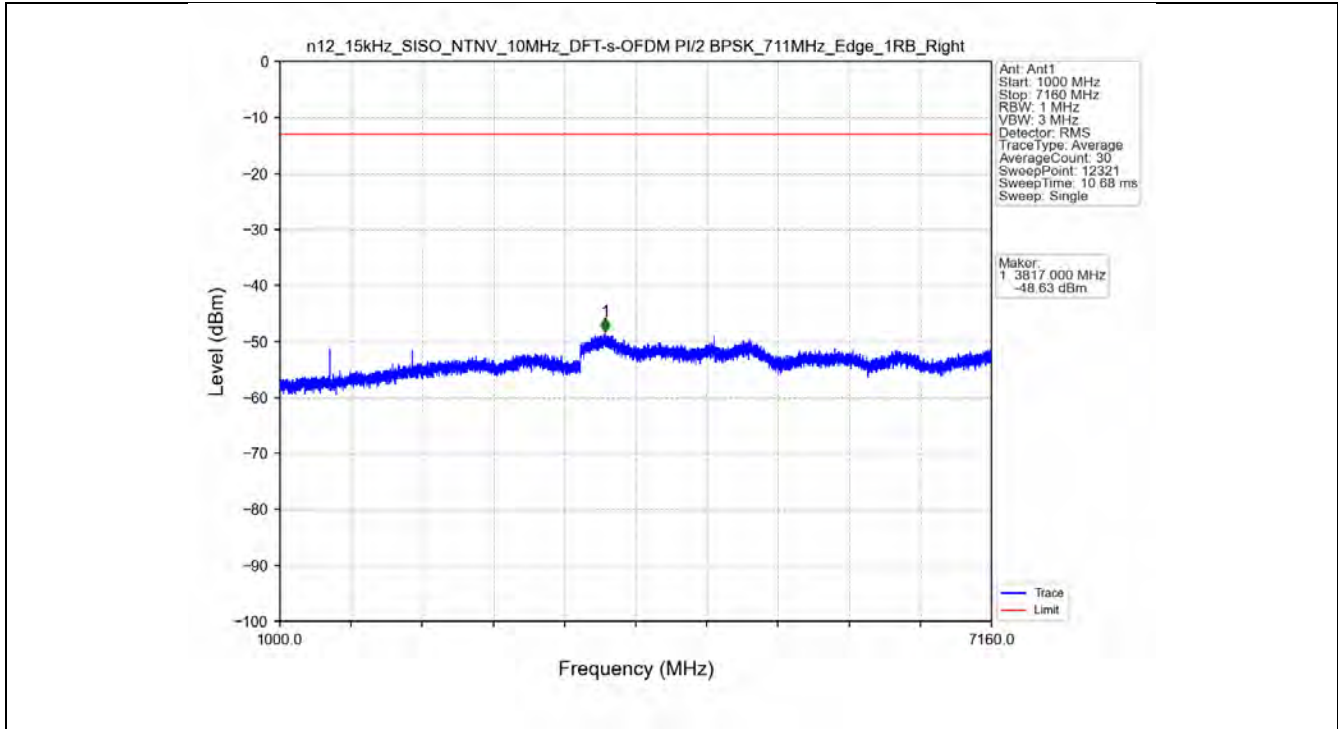


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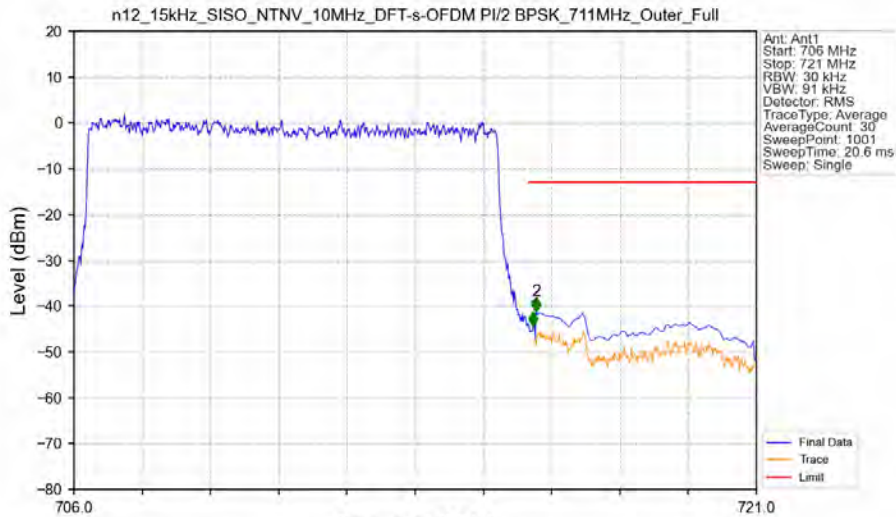
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n12_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_711MHz_Outer_Full



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 706 | 716 | 0.03 | / | / | / | / | / | / |
| 716 | 716.1 | 0.03 | / | 1 | 716.095 | -44.30 | -13 | Pass |
| 716.1 | 721 | 0.1 | CHP | 2 | 716.155 | -41.13 | -13 | Pass |

n12_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_711MHz_Inner_1RB_Right



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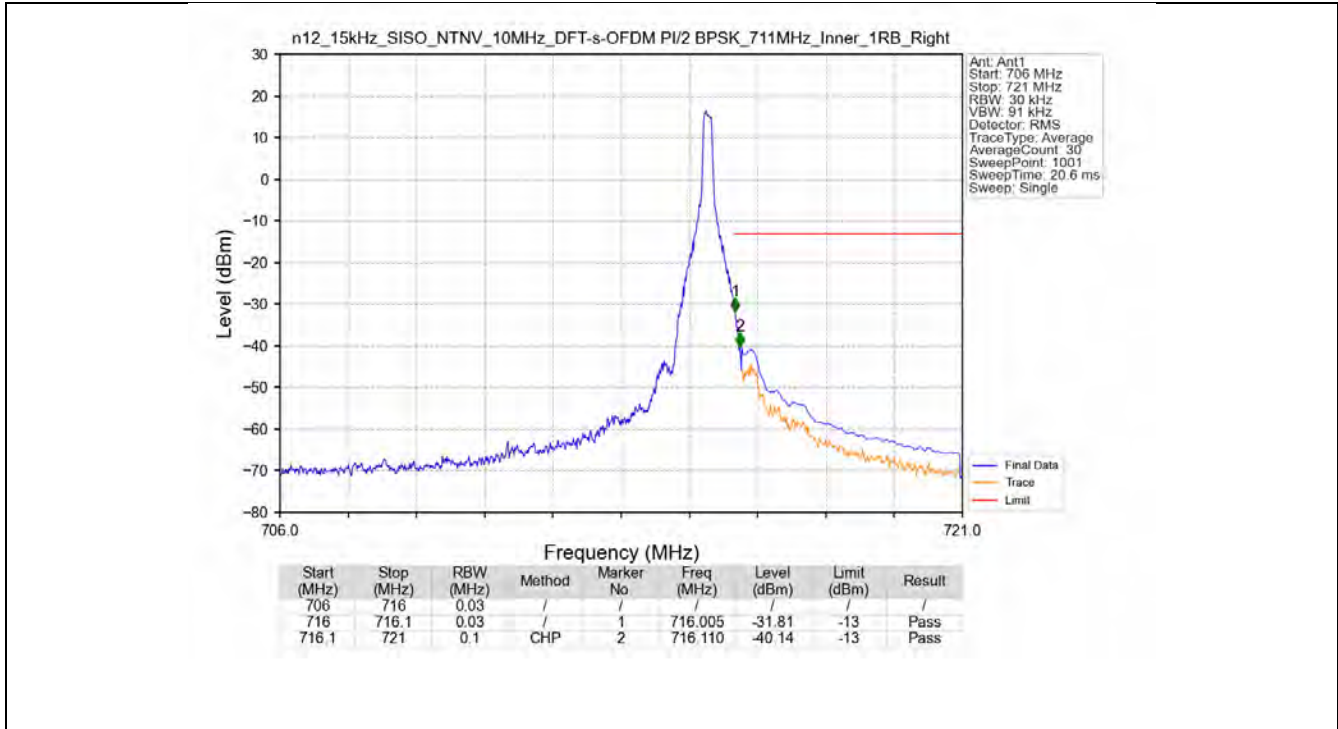


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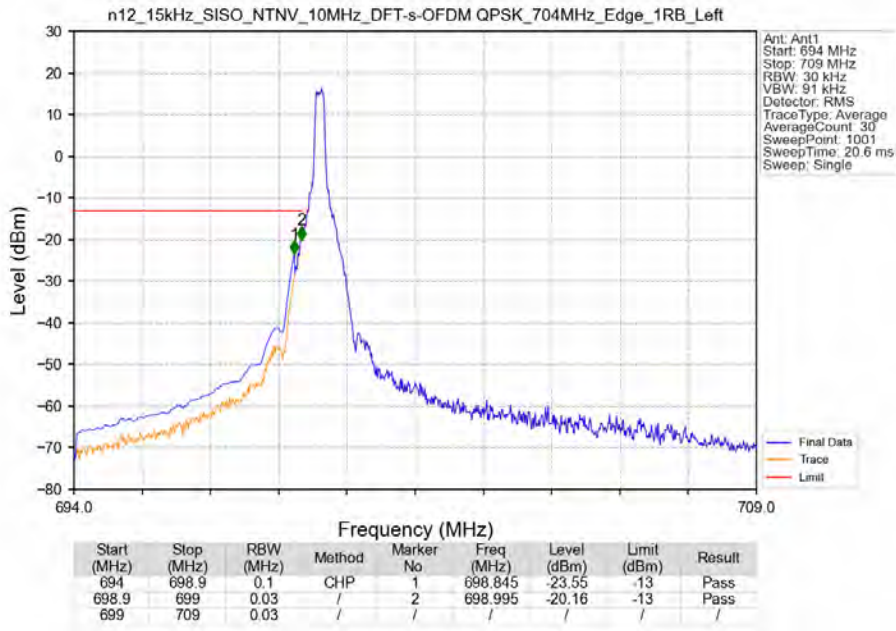
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n12_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_QPSK_704MHz_Edge_1RB_Left



n12_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_QPSK_704MHz_Edge_1RB_Left



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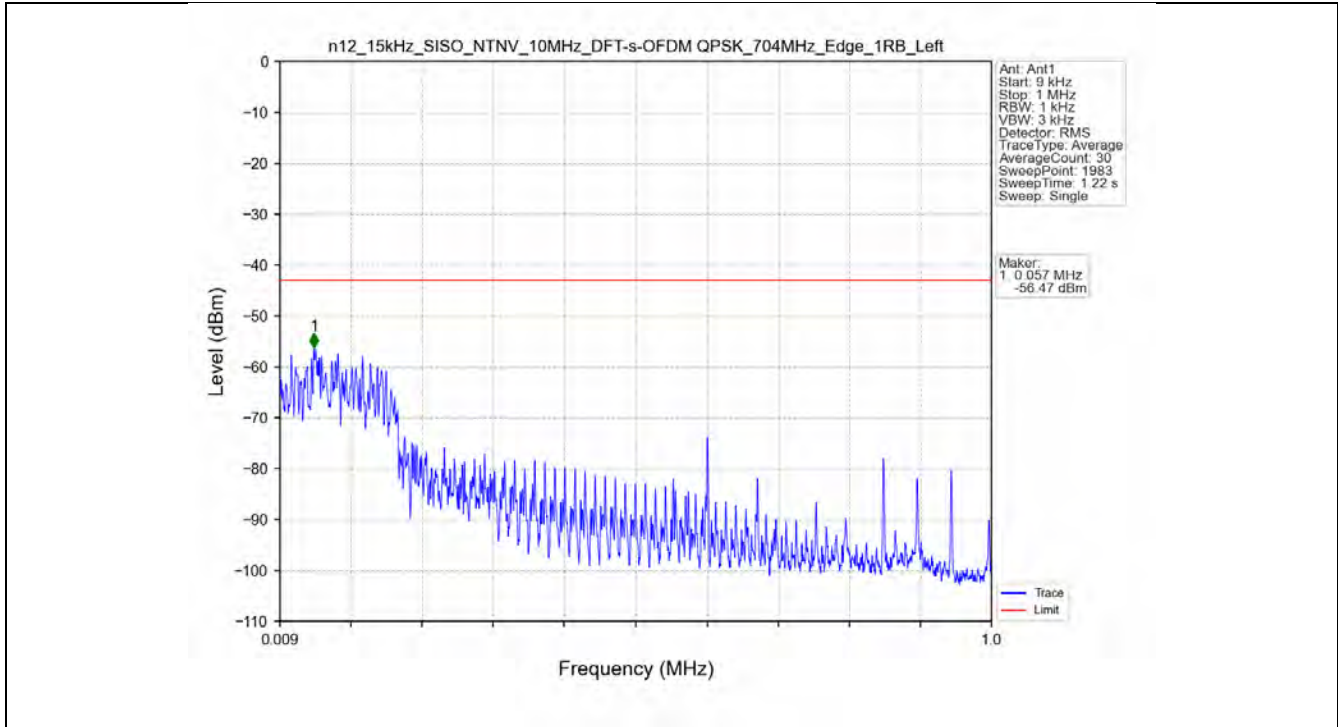


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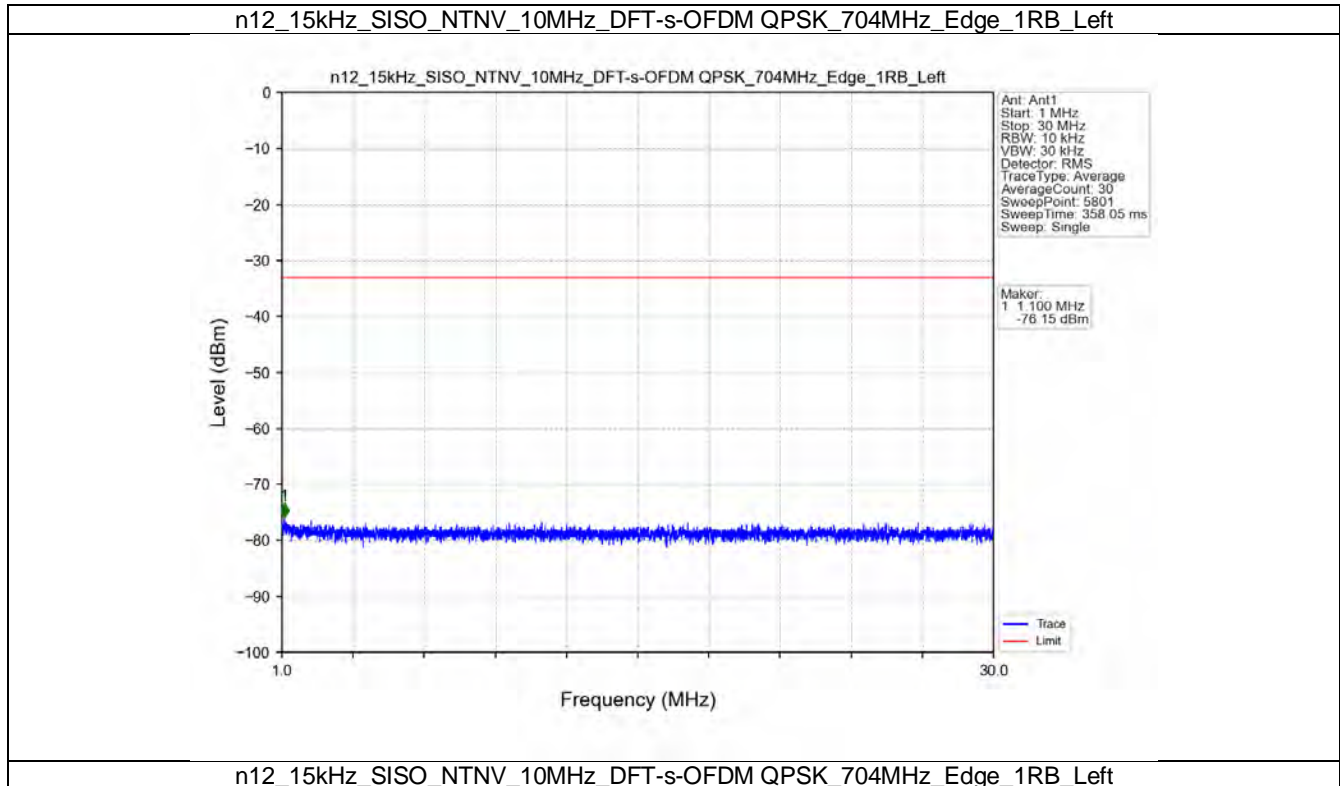


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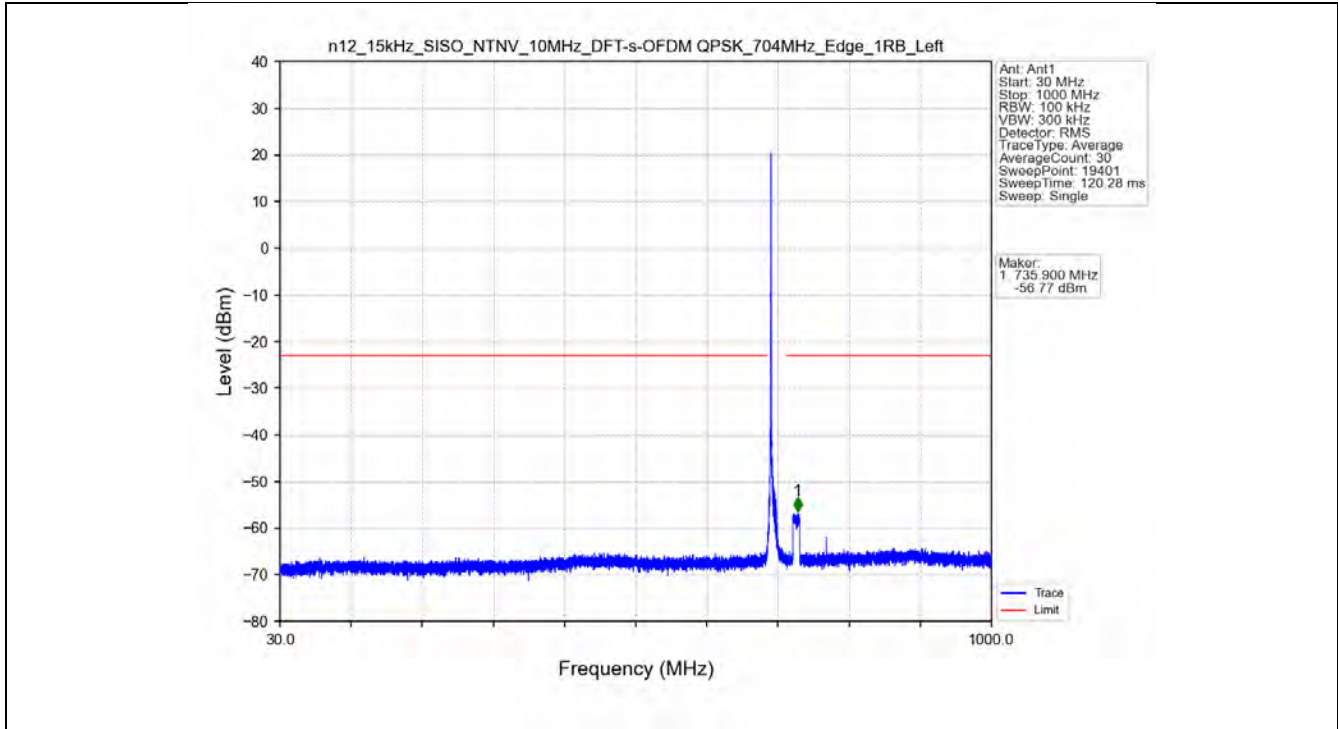


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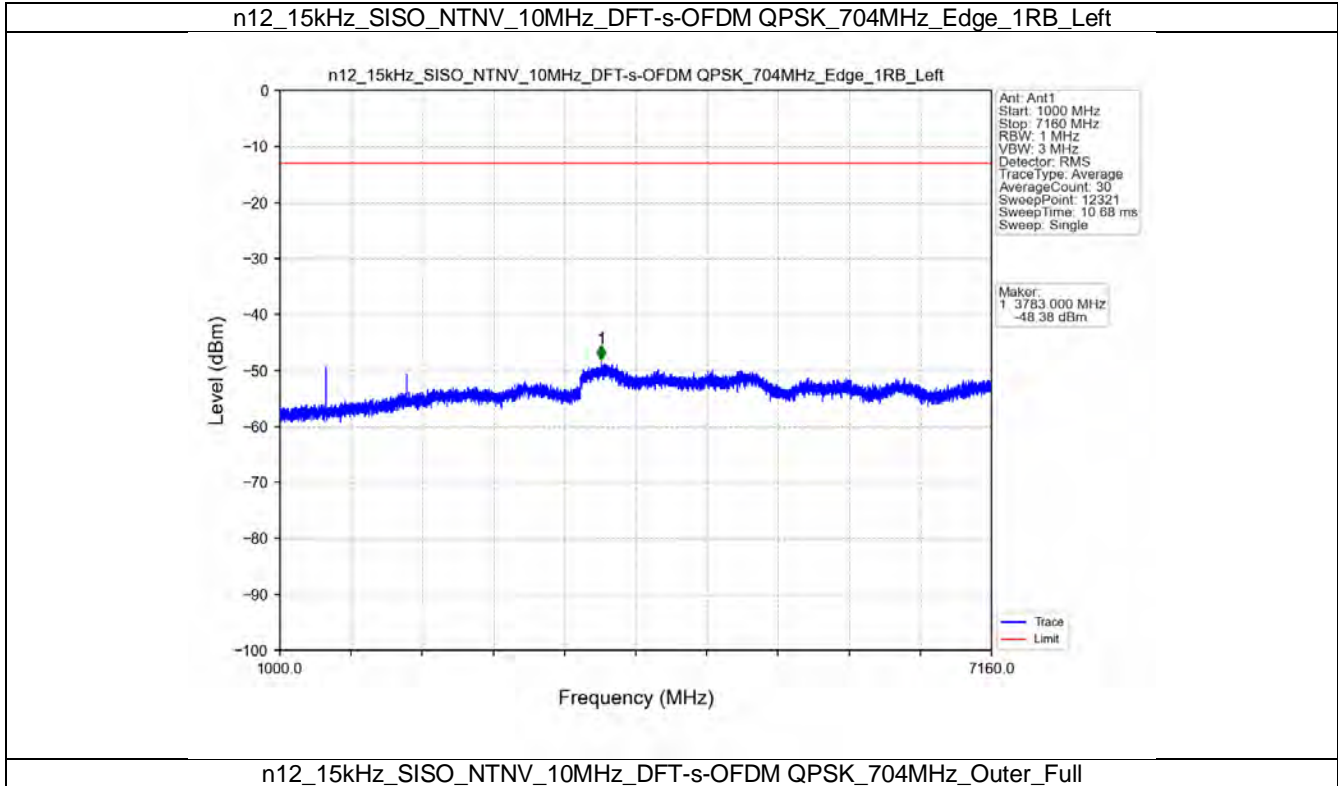


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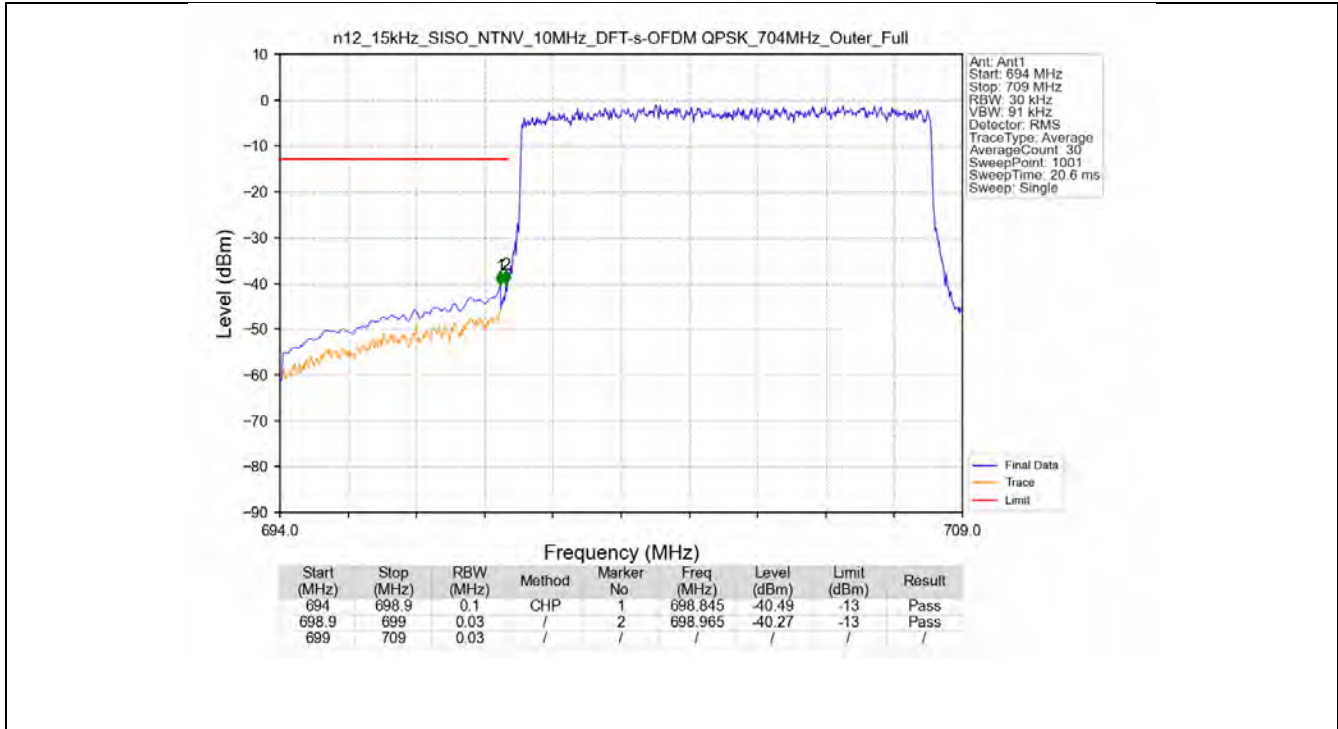


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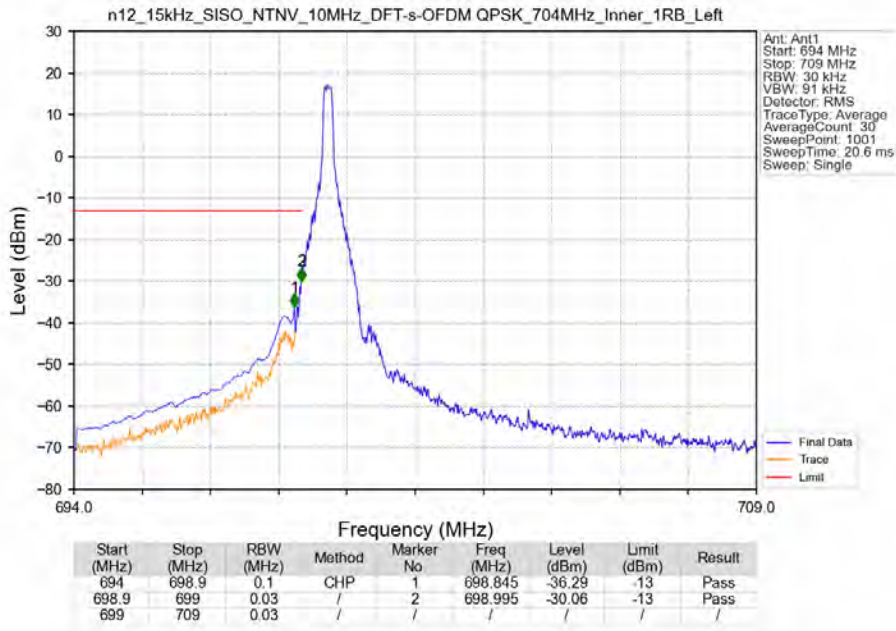
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n12_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_704MHz_Inner_1RB_Left



n12_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_707.5MHz_Edge_1RB_Left



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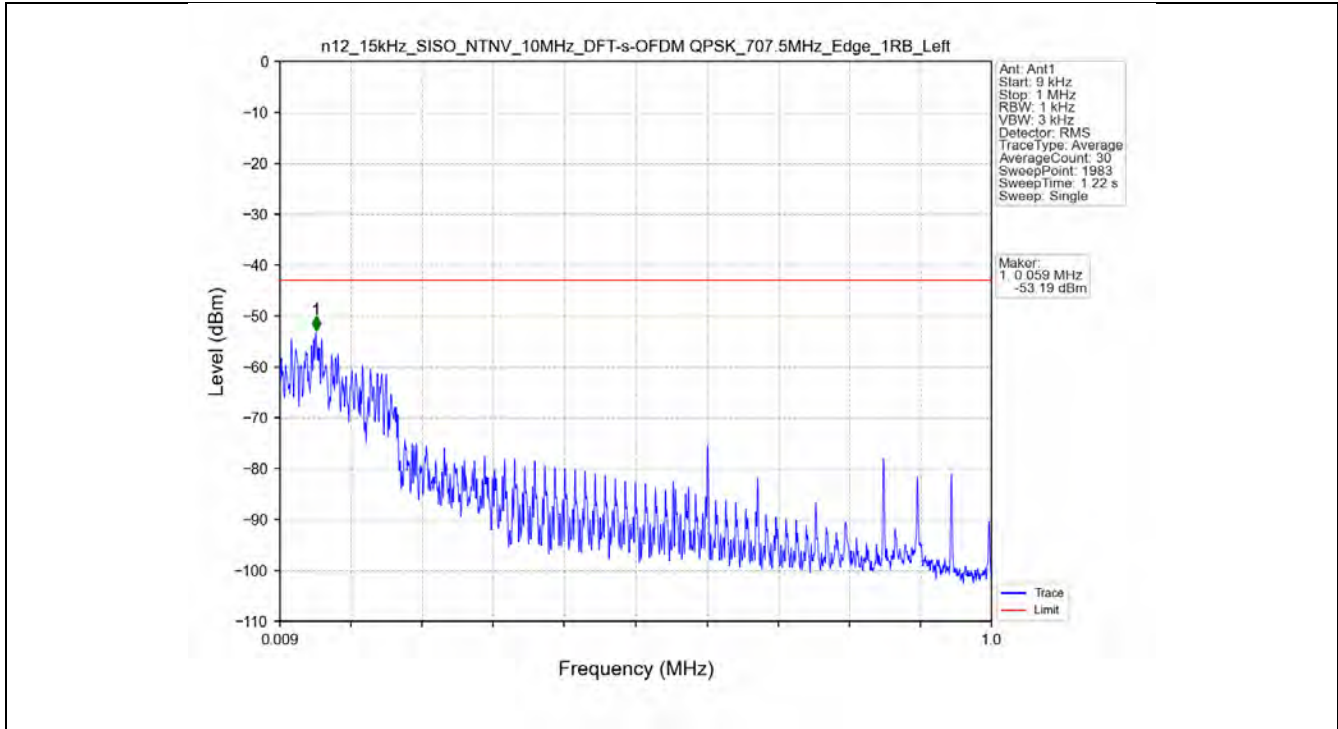


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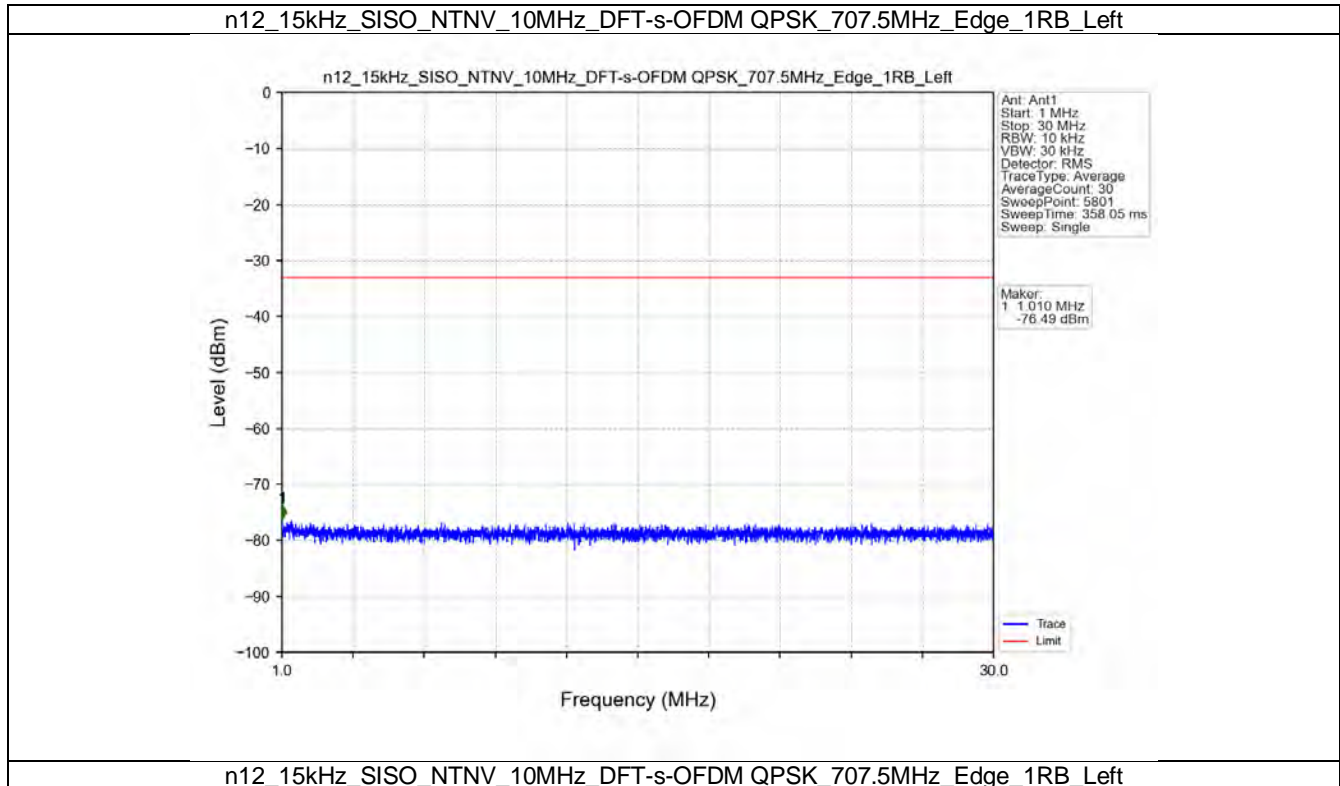


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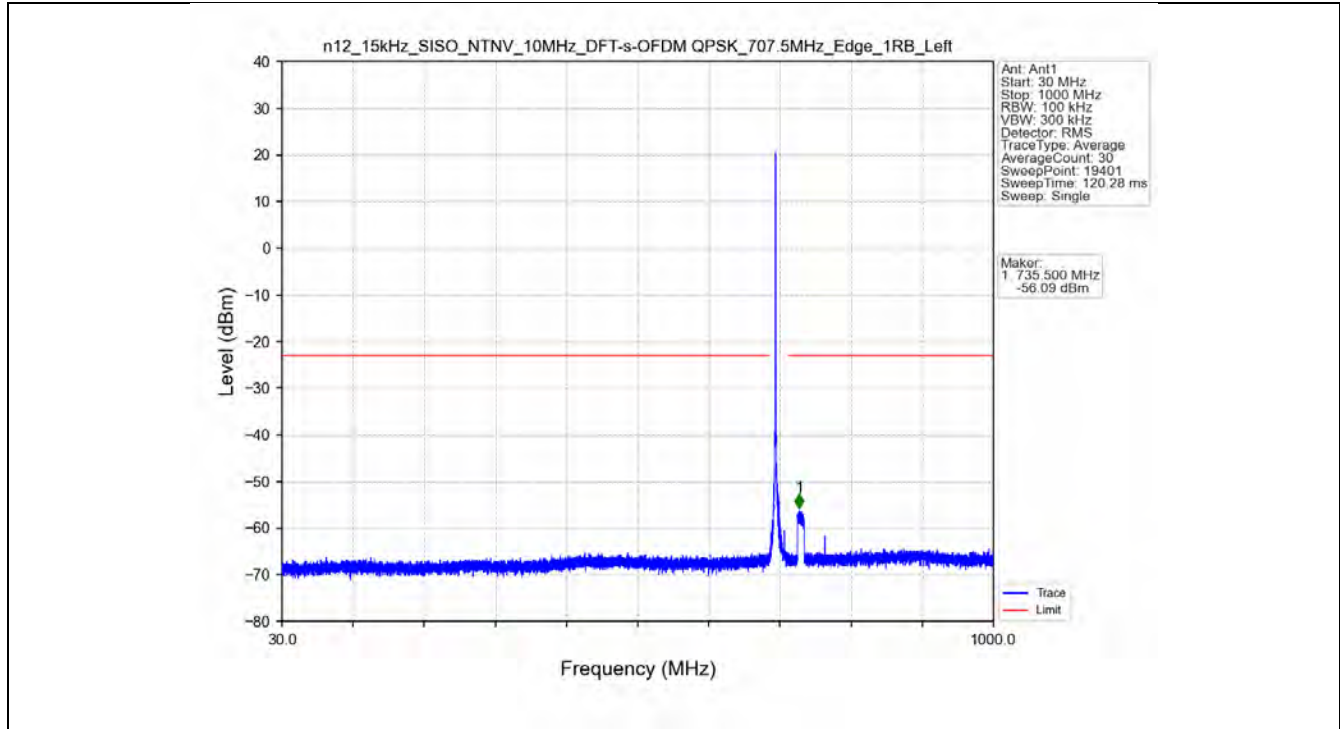


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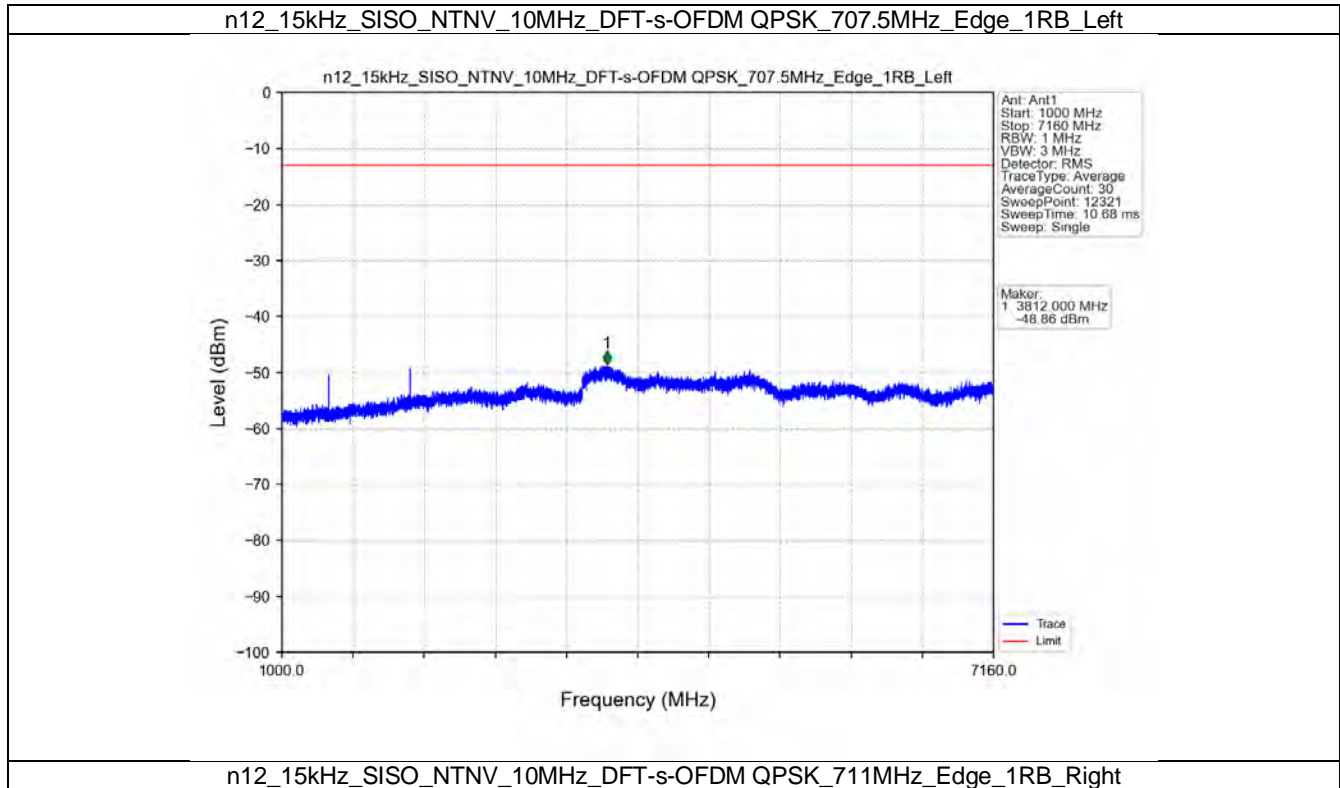


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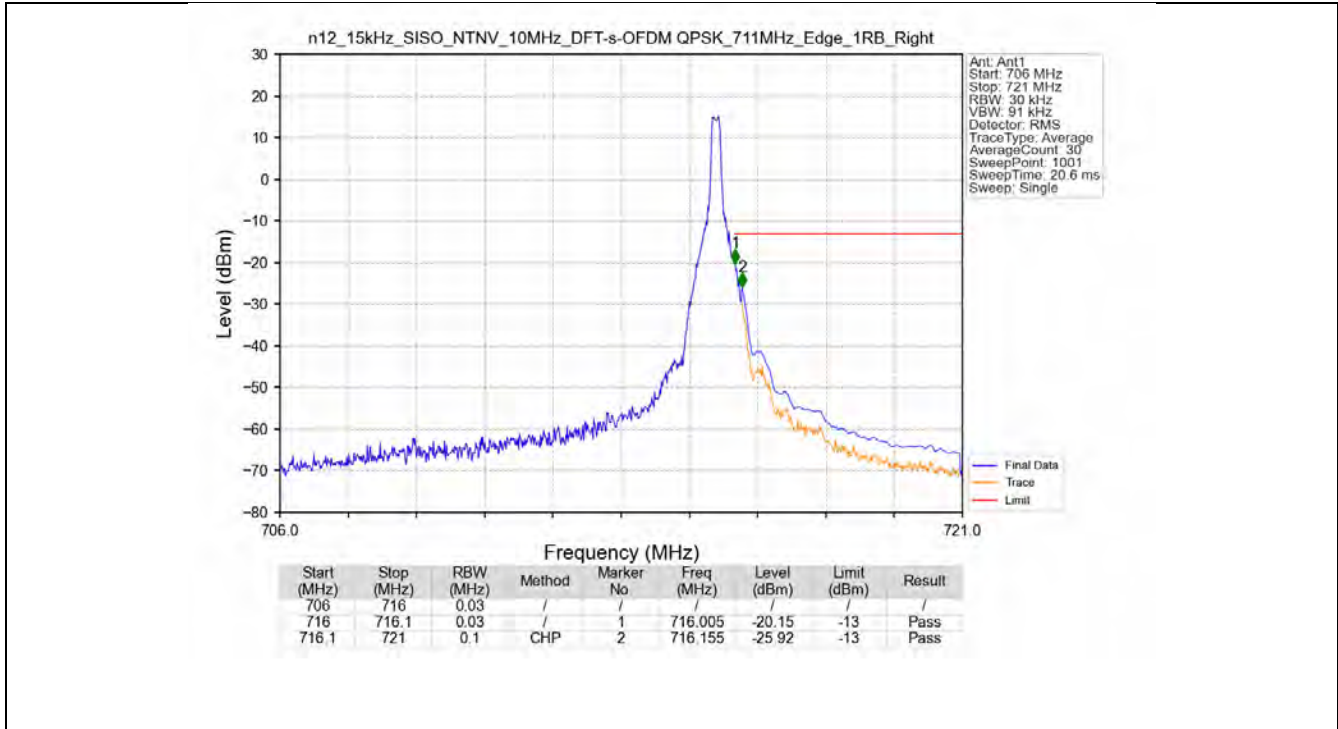


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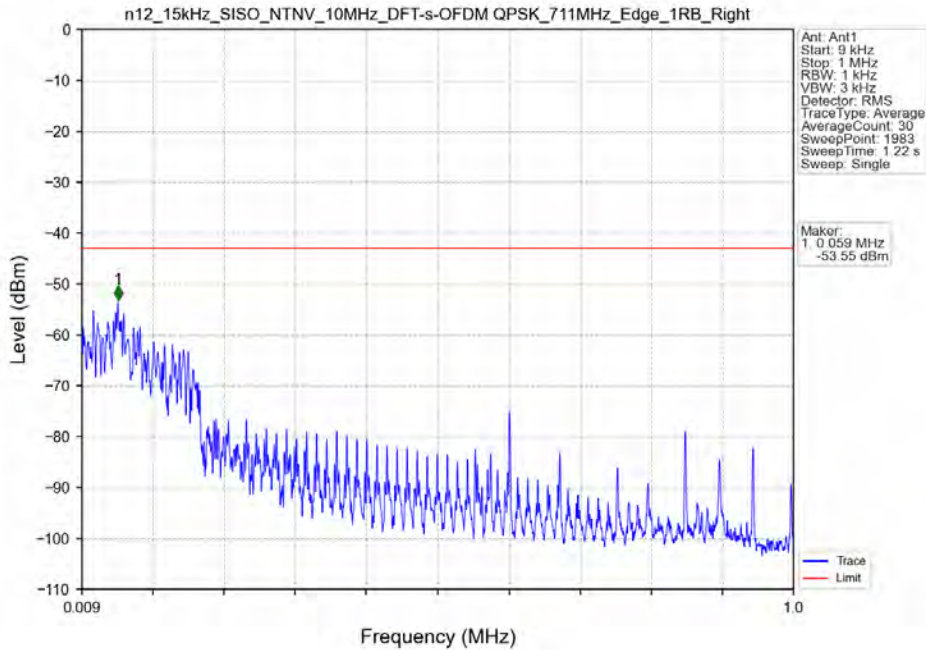
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n12_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_711MHz_Edge_1RB_Right



n12_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_711MHz_Edge_1RB_Right



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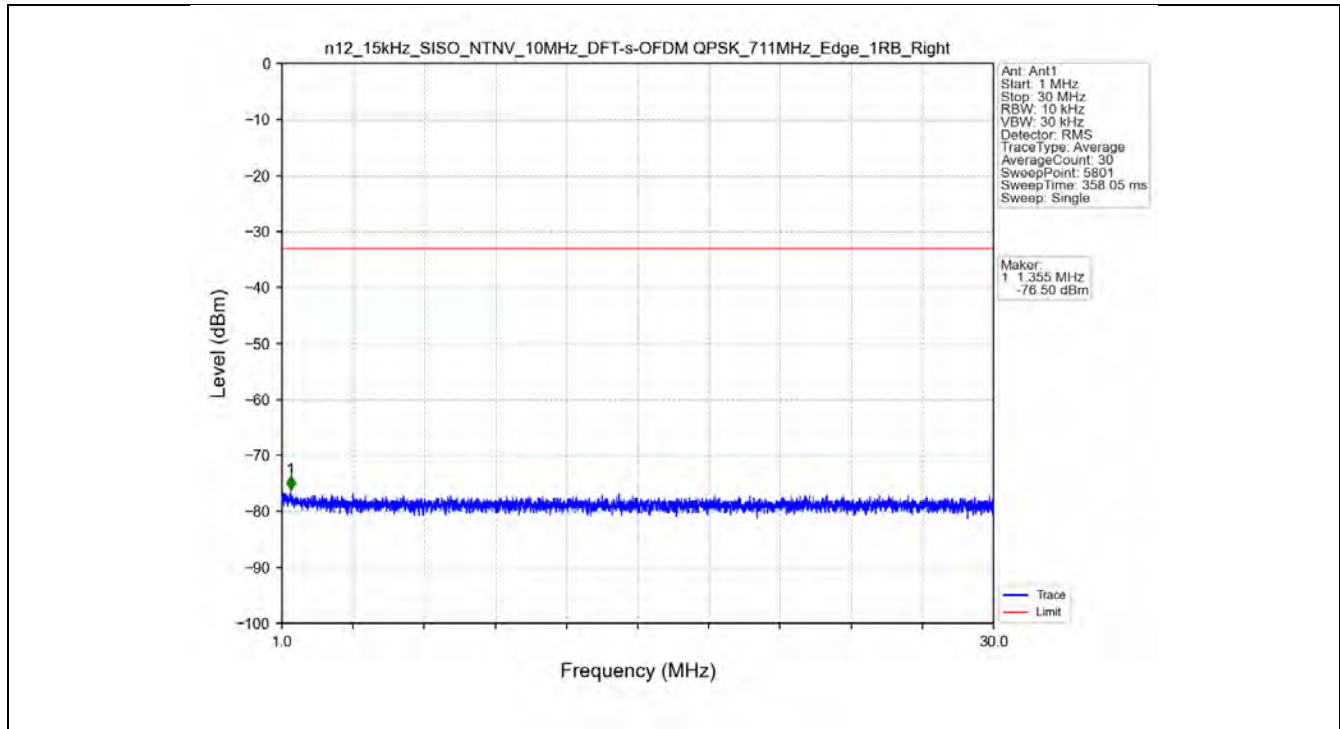


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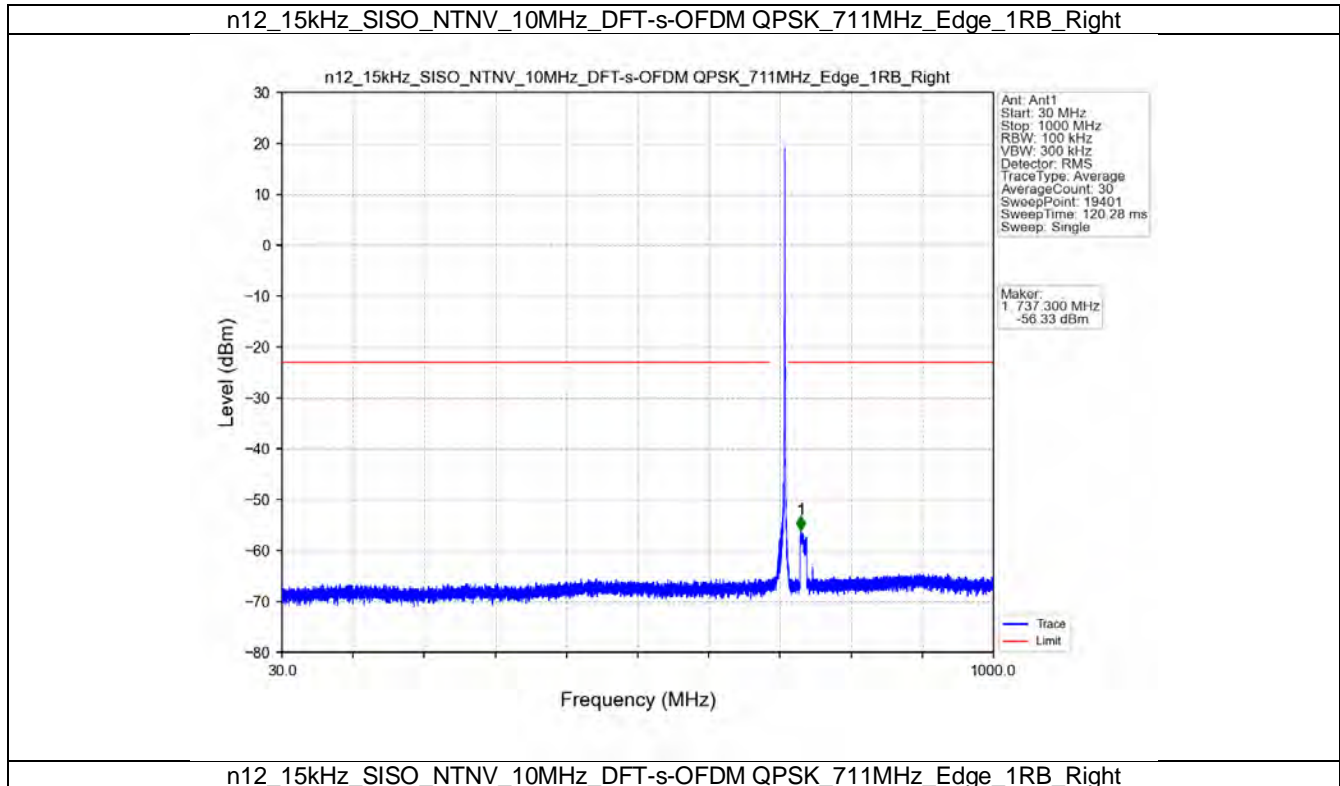


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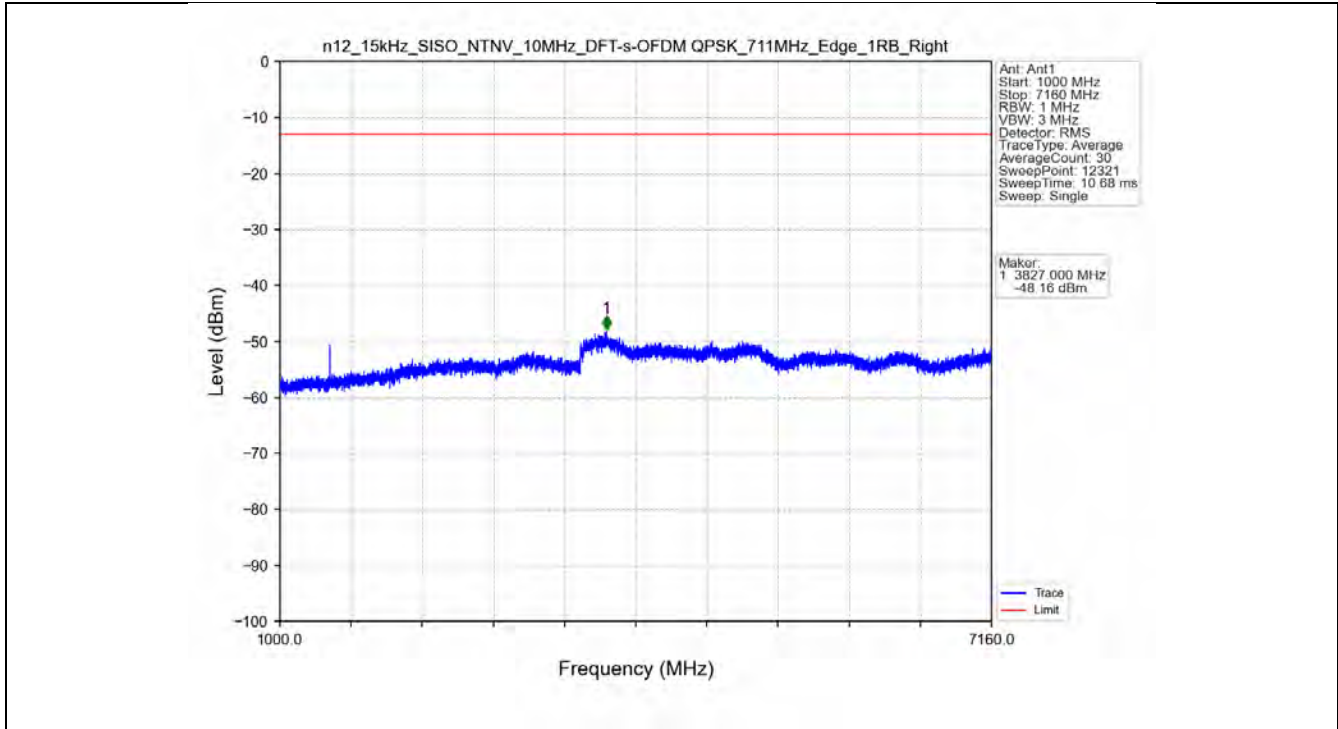


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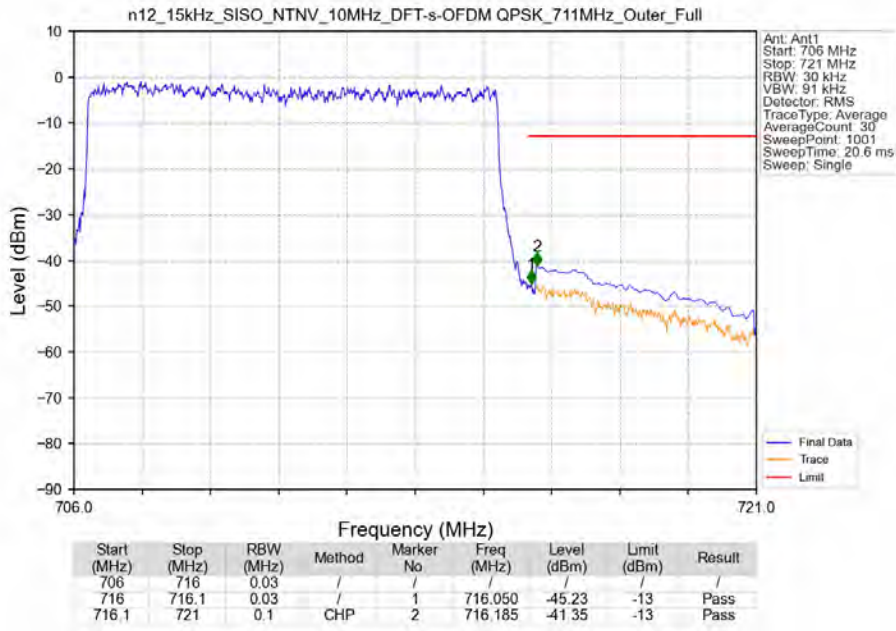
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n12_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_711MHz_Outer_Full



n12_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_711MHz_Inner_1RB_Right



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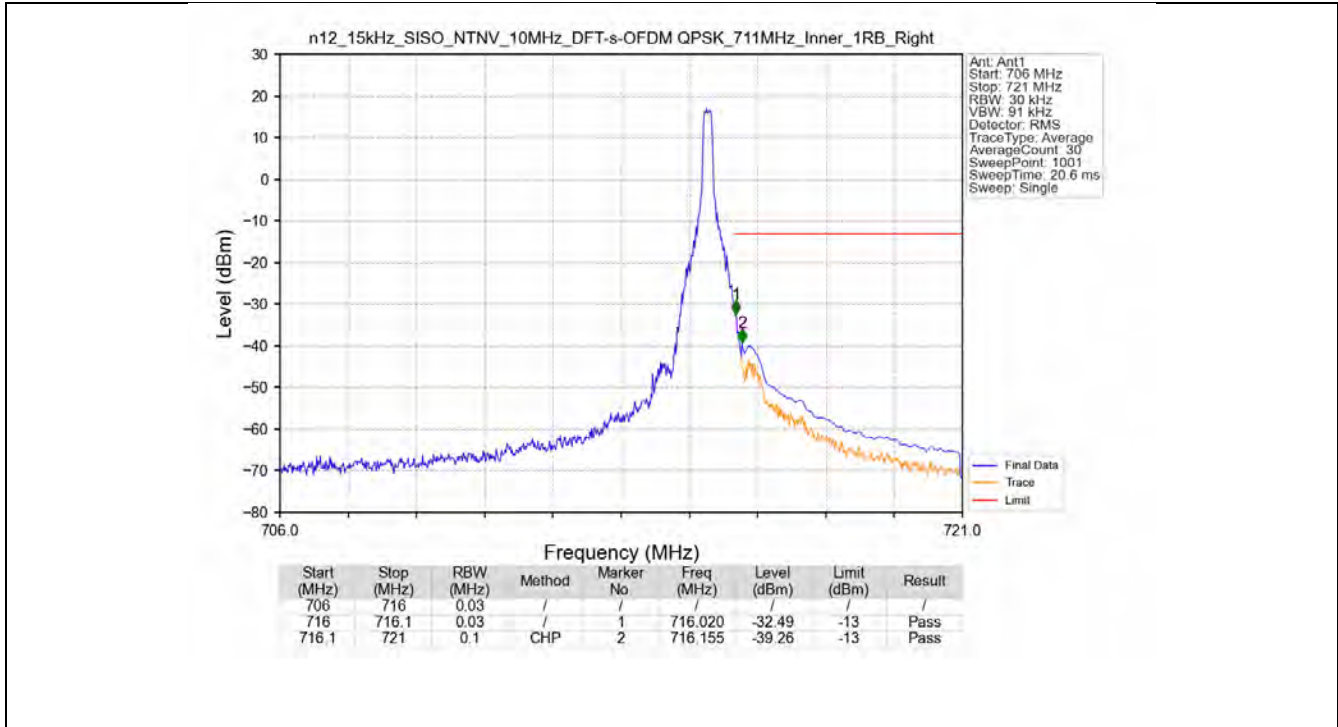


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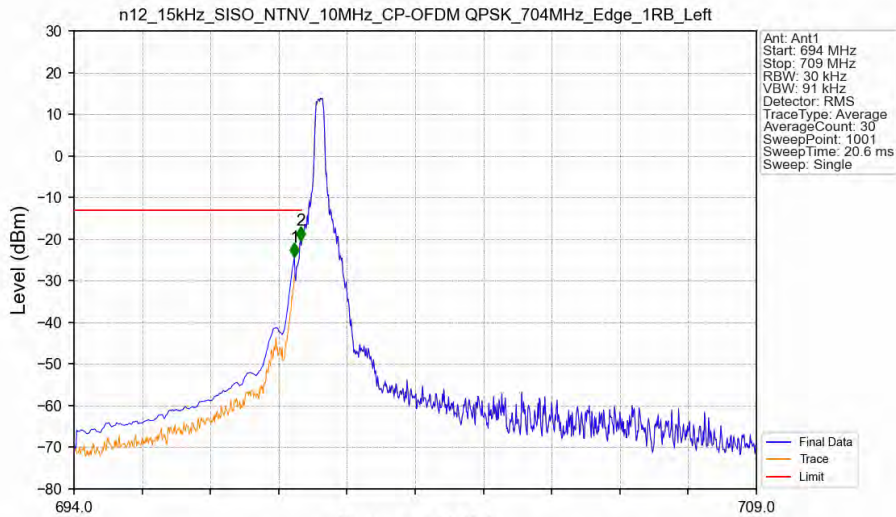
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n12_15kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_704MHz_Edge_1RB_Left



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 694 | 698.9 | 0.1 | CHP | 1 | 698.845 | -24.33 | -13 | Pass |
| 698.9 | 699 | 0.03 | / | 2 | 698.980 | -20.38 | -13 | Pass |
| 699 | 709 | 0.03 | / | / | / | / | / | / |

n12_15kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_704MHz_Edge_1RB_Left



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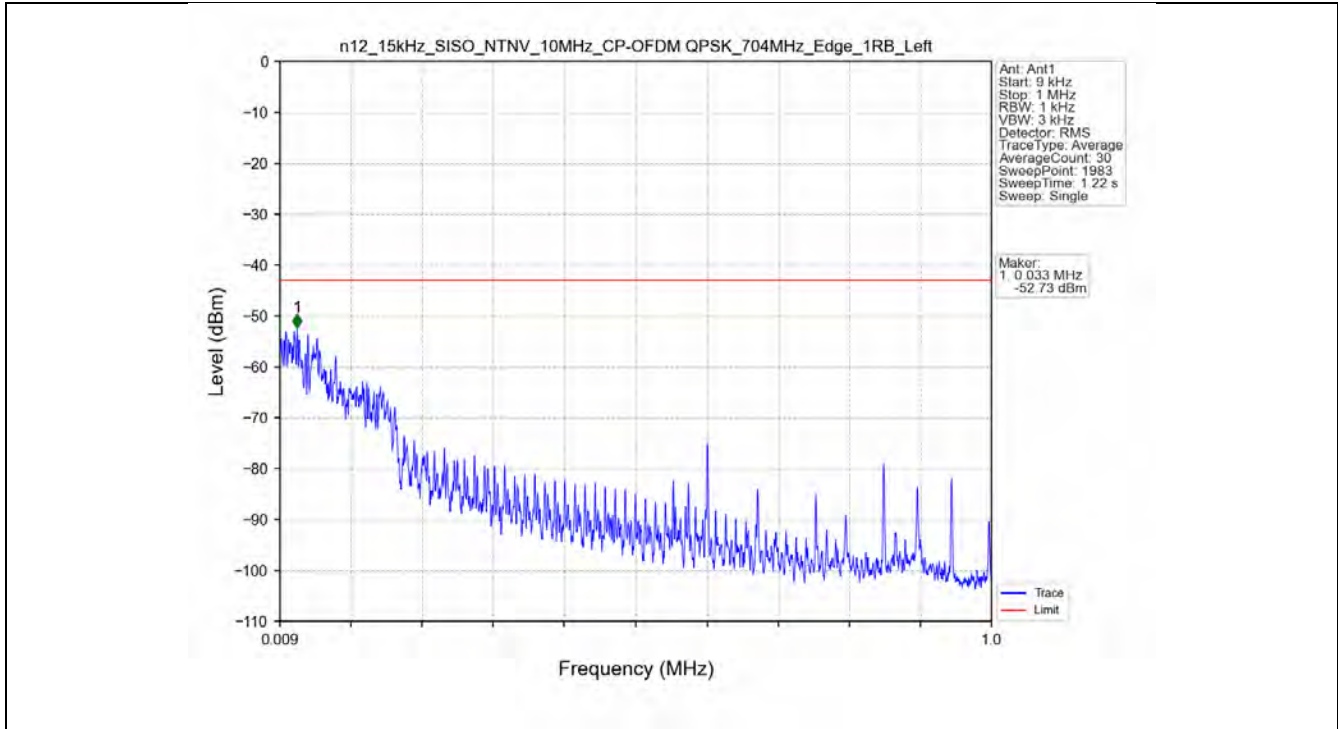


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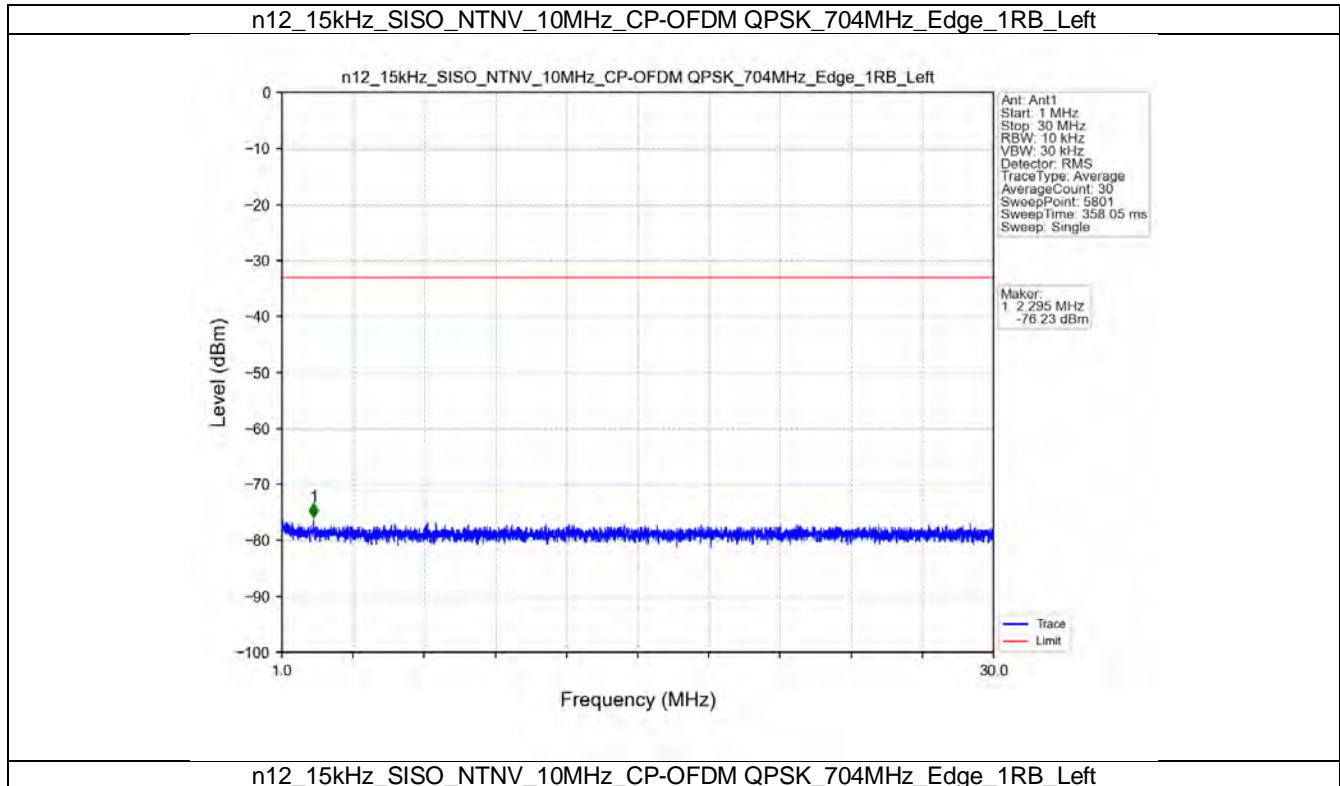


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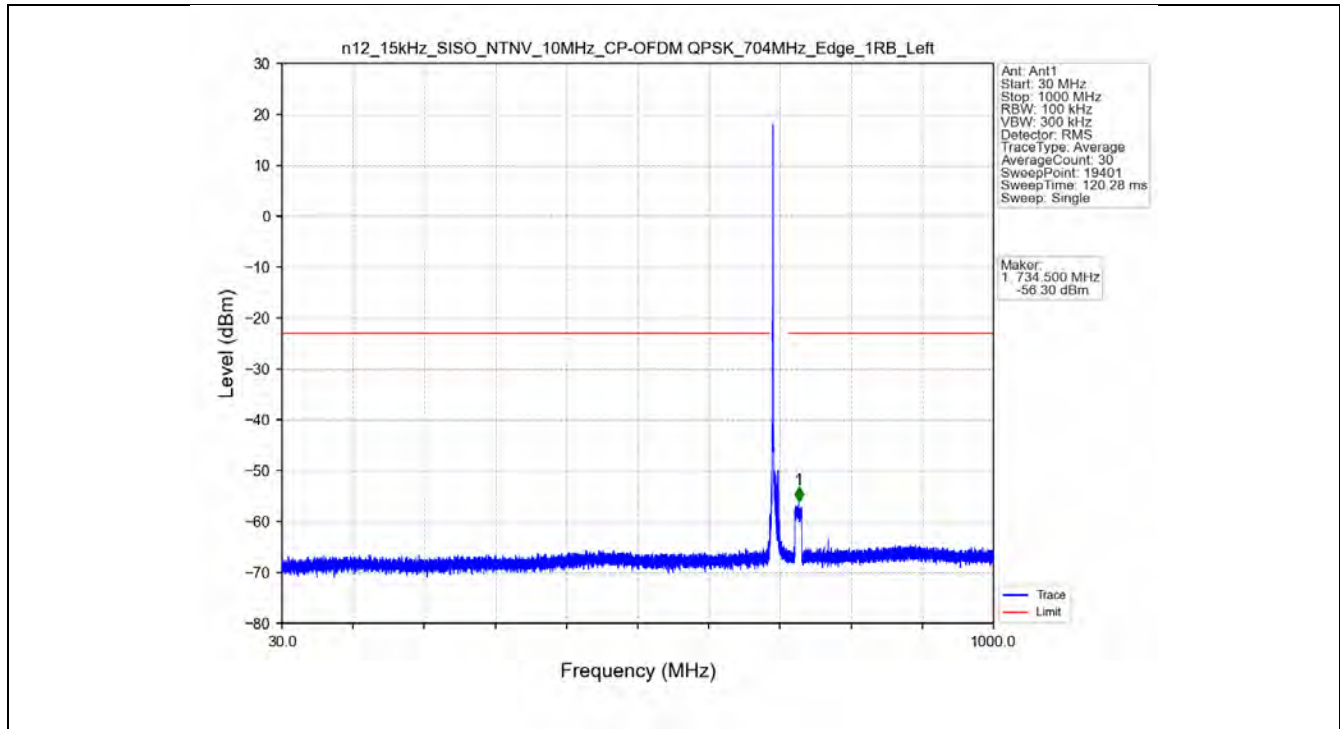


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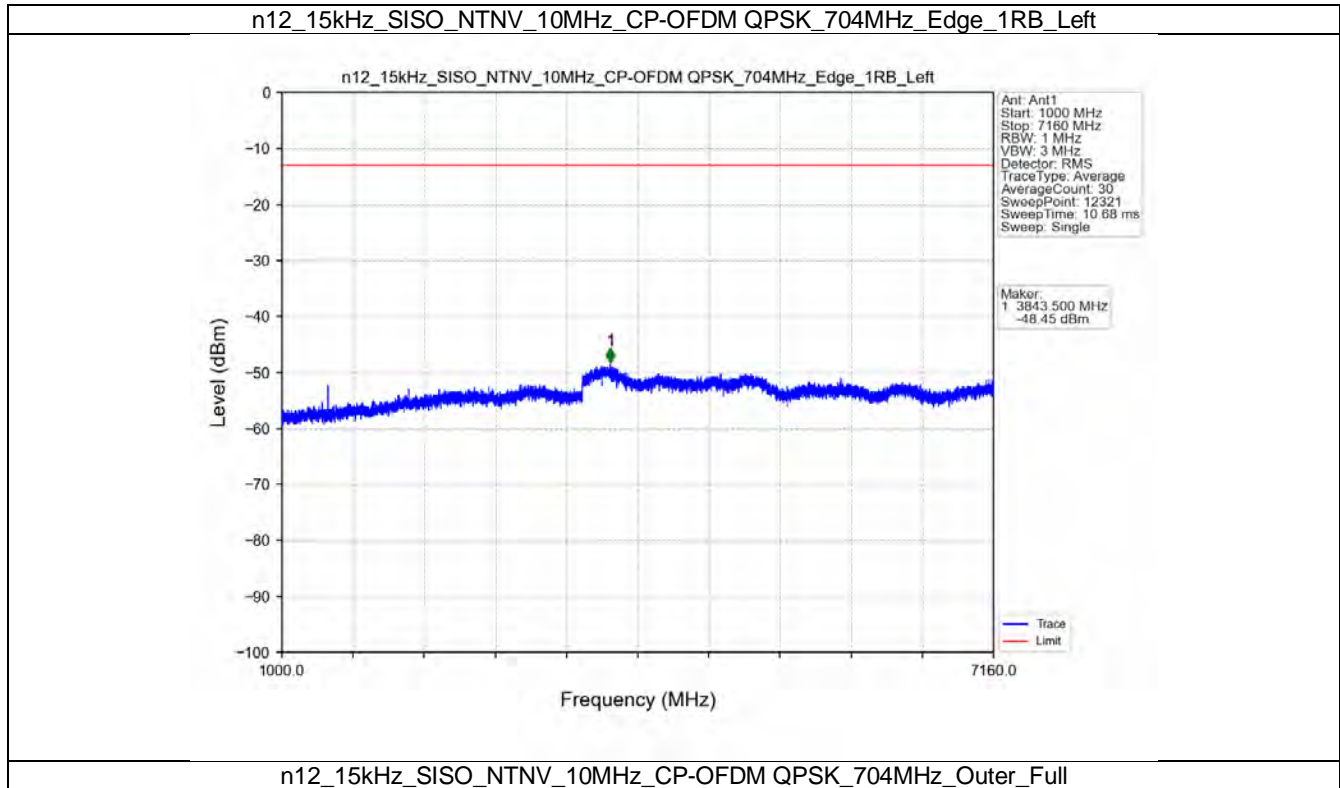


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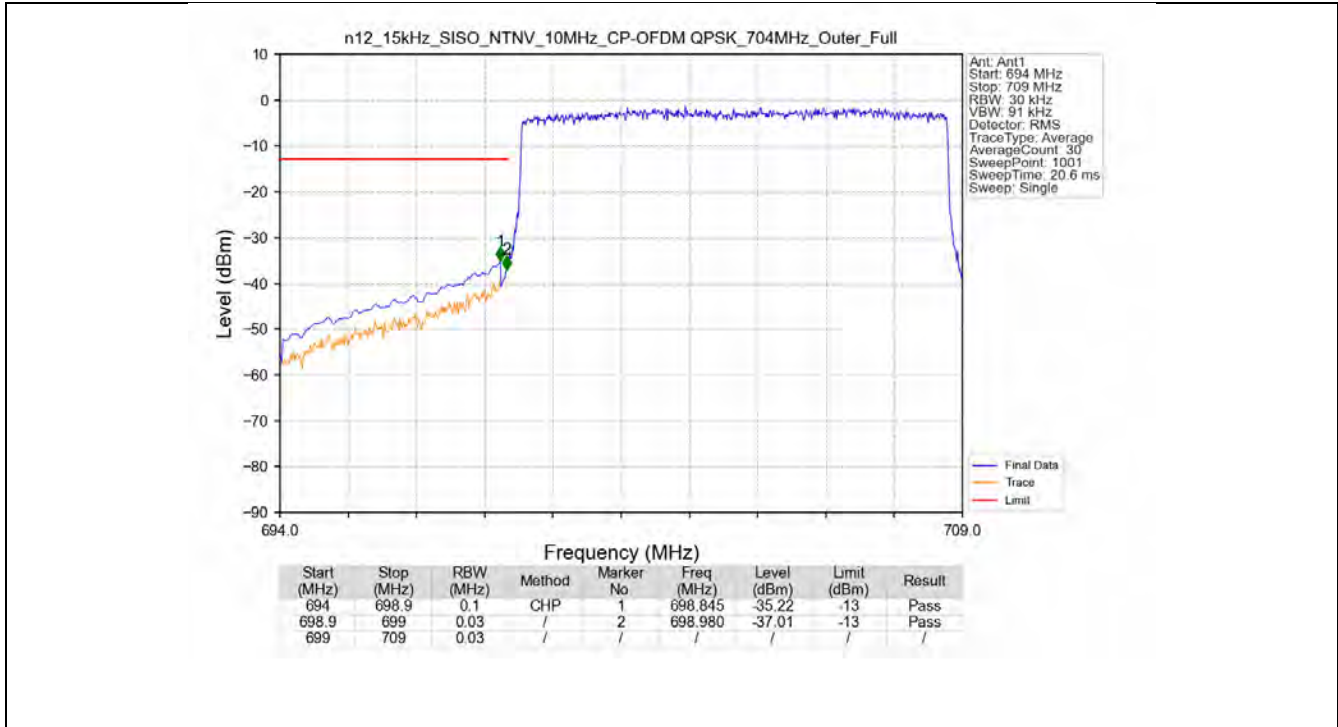


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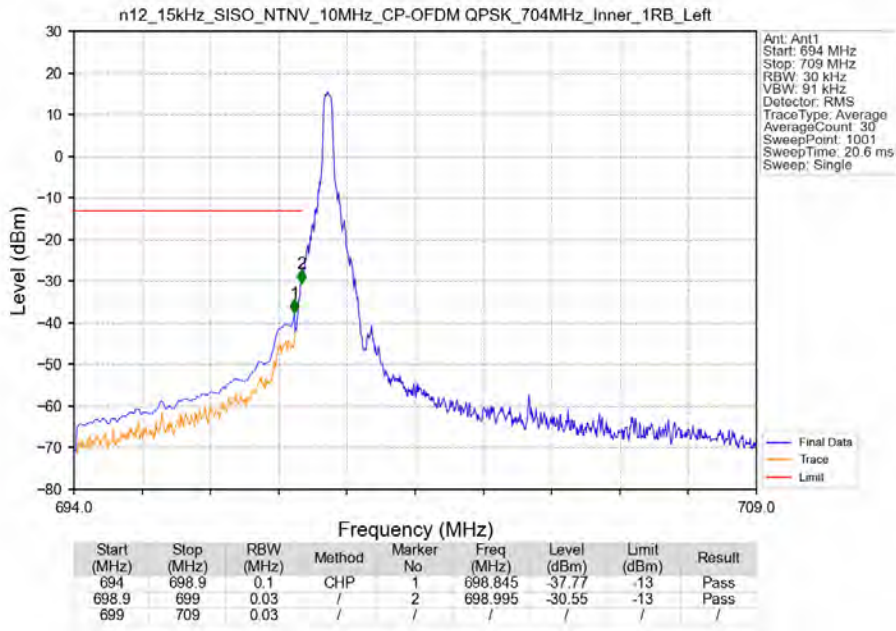
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n12_15kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_704MHz_Inner_1RB_Left



n12_15kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_707.5MHz_Edge_1RB_Left



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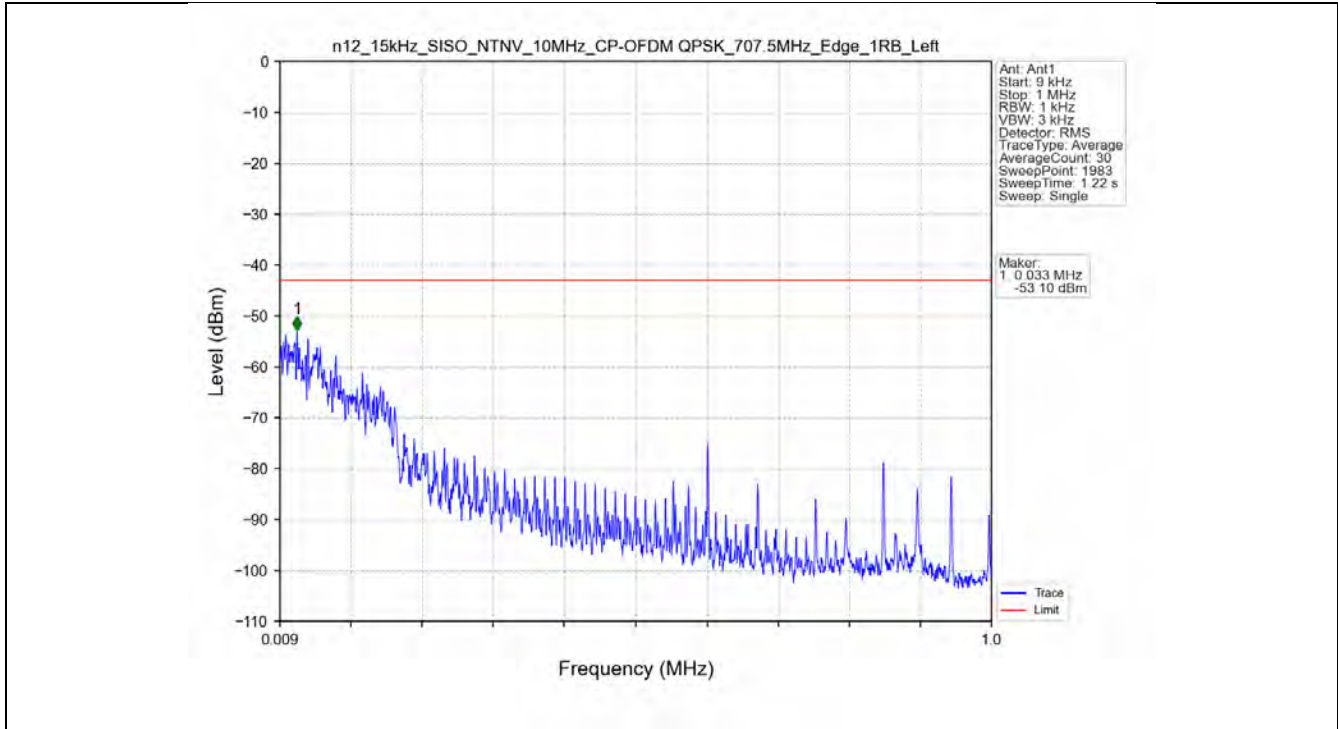


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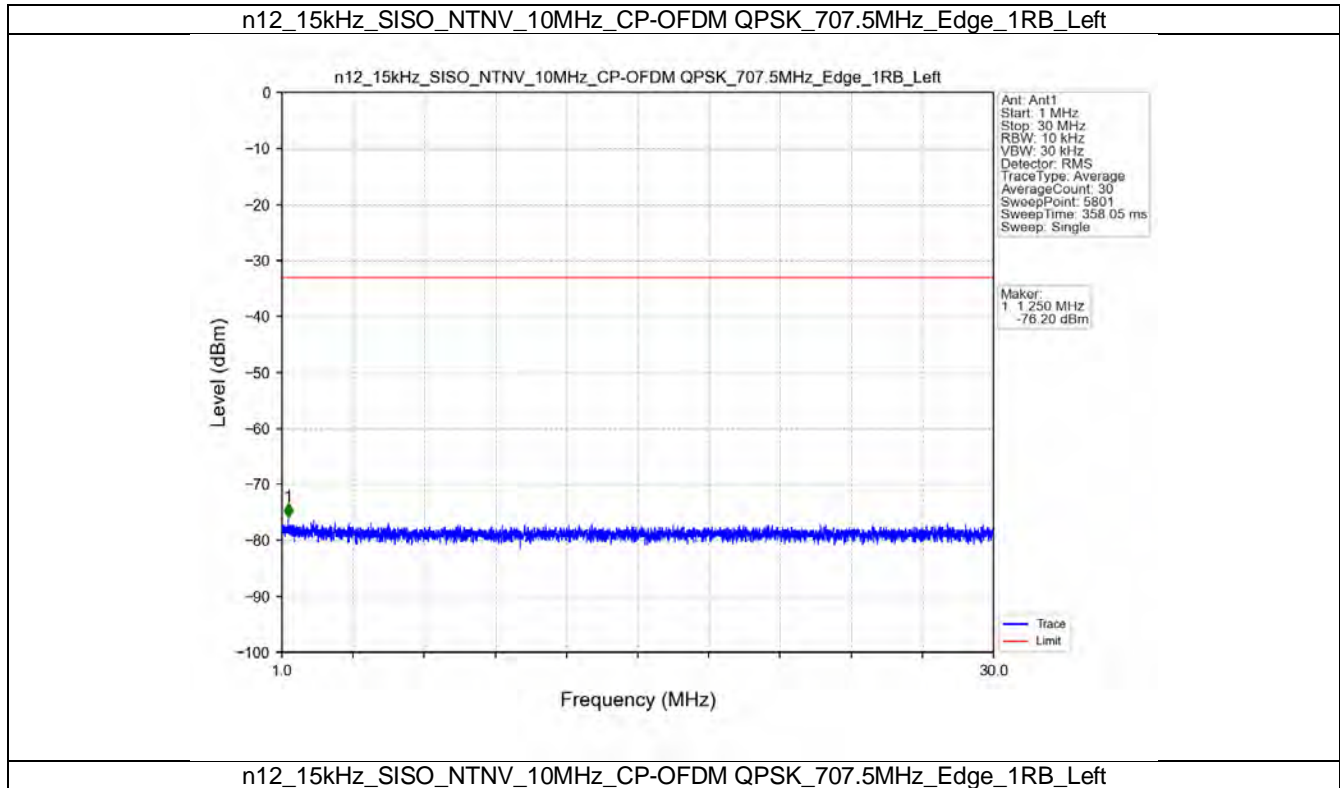


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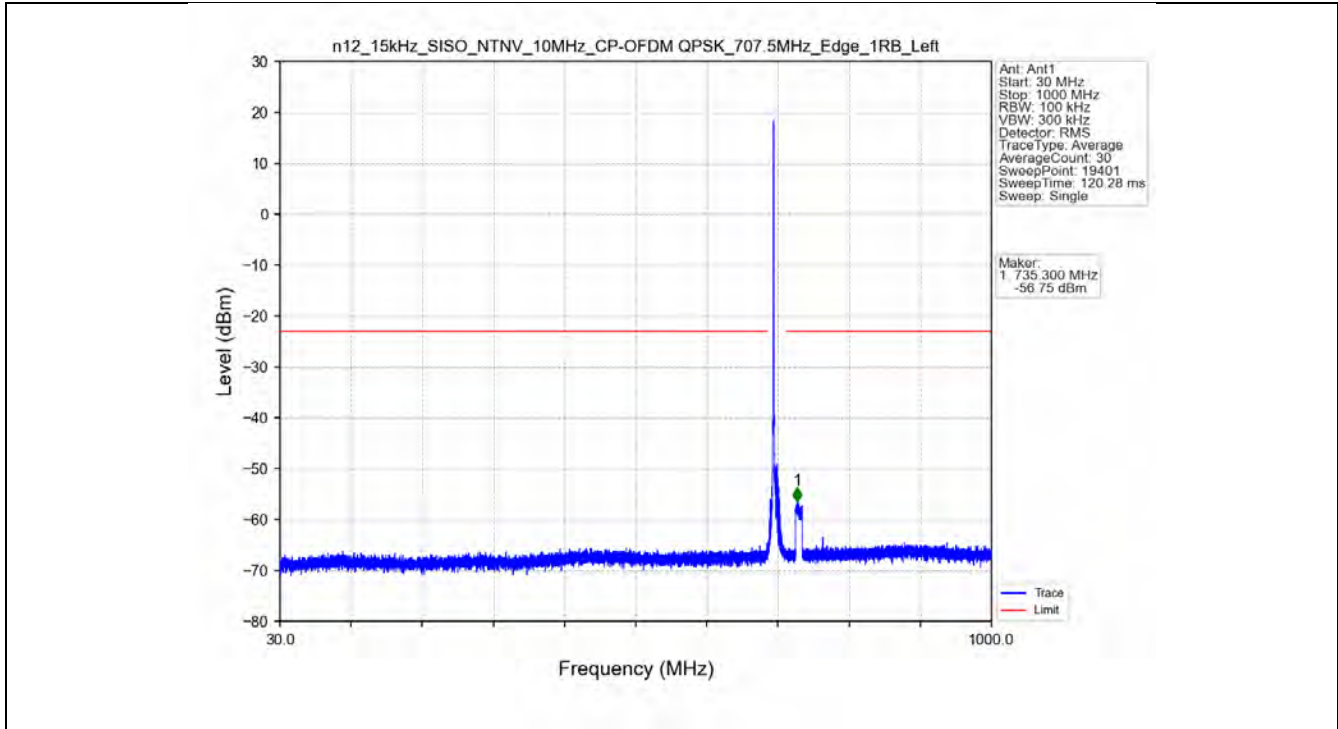


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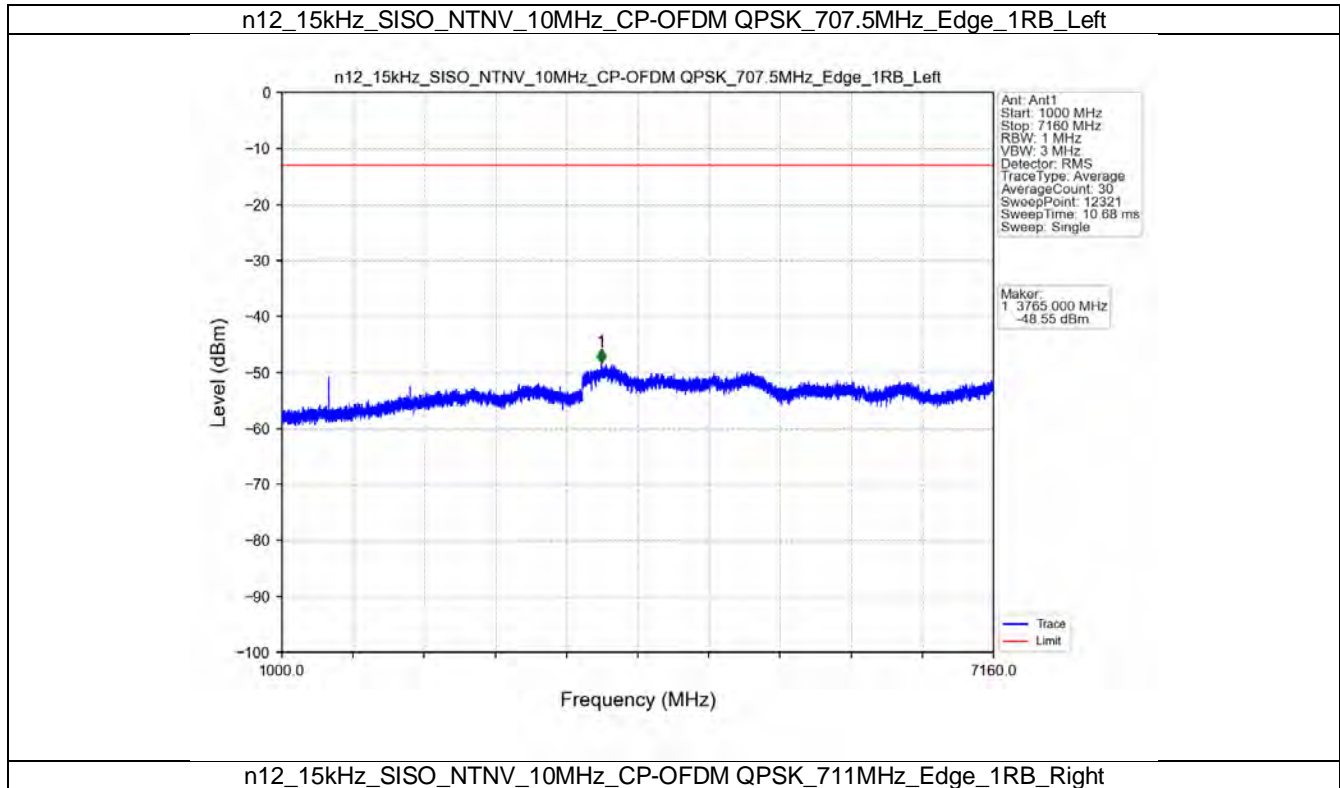


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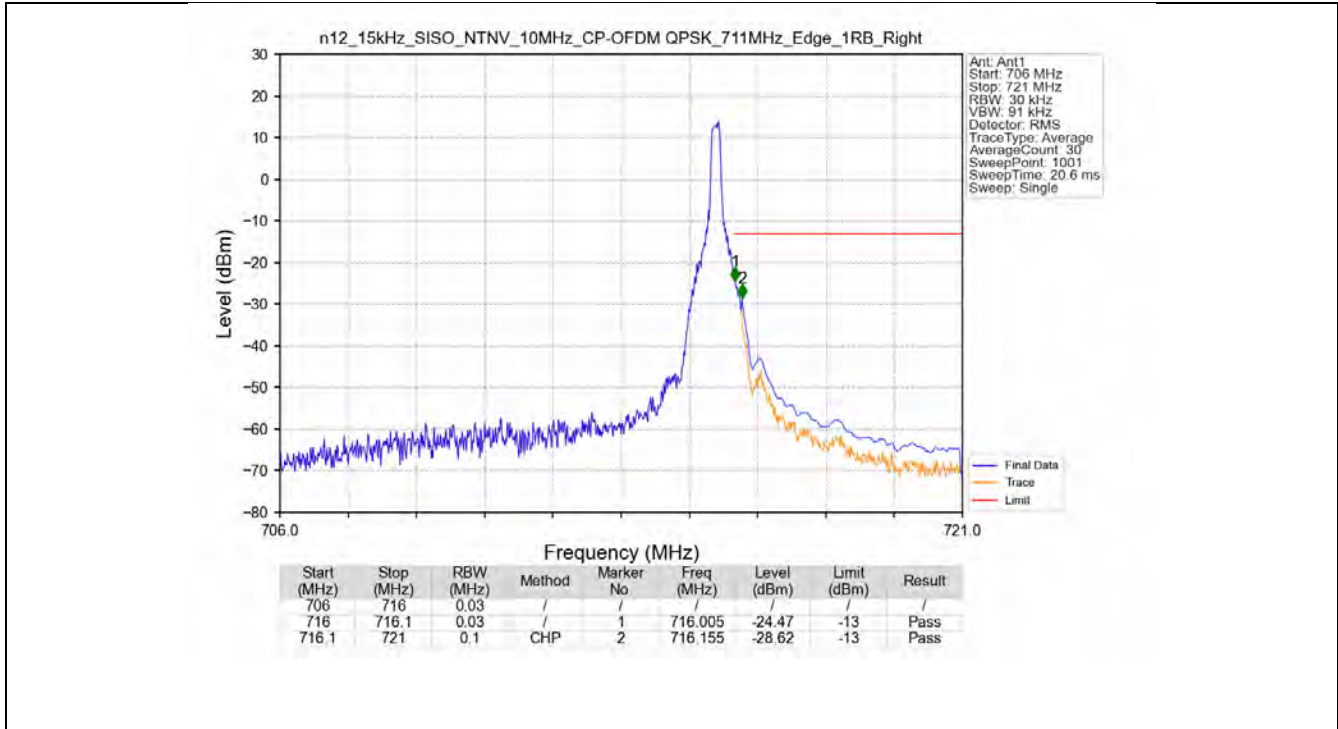


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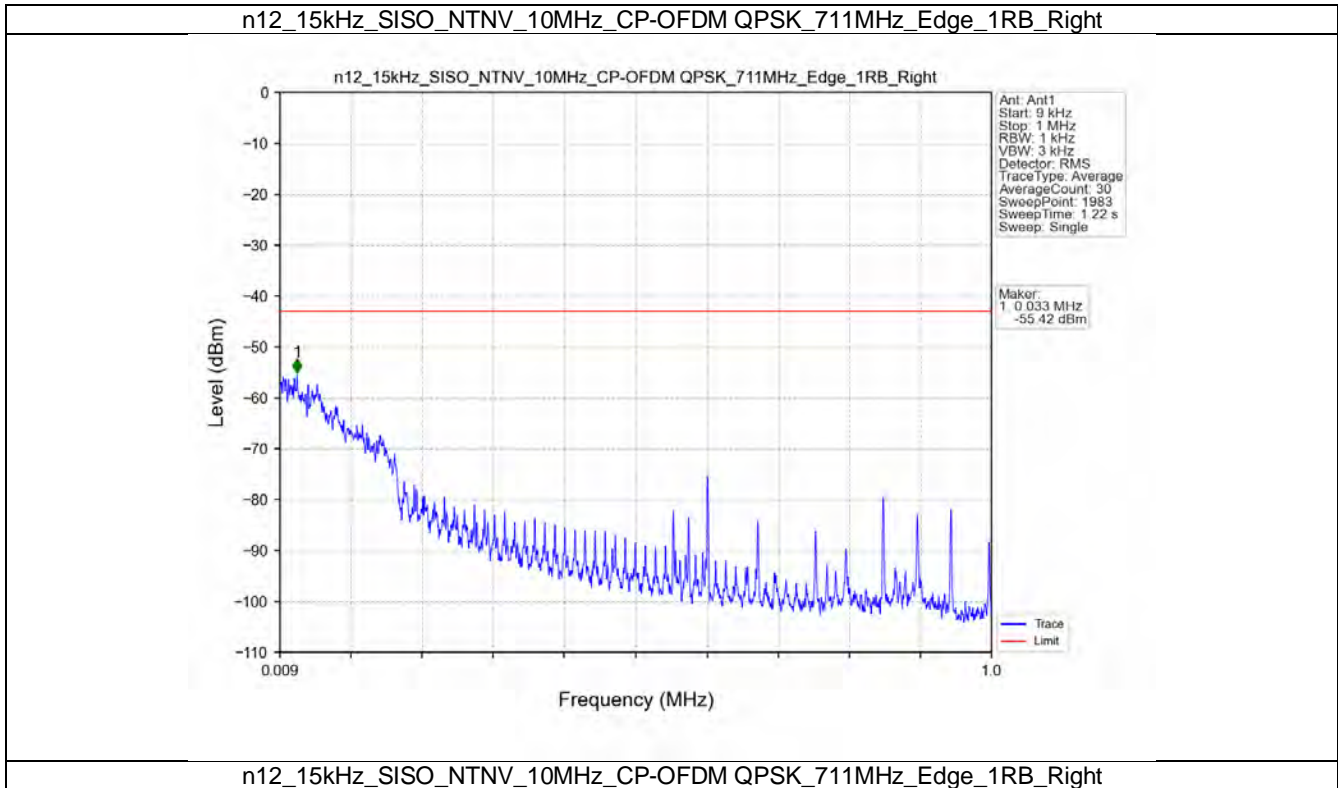


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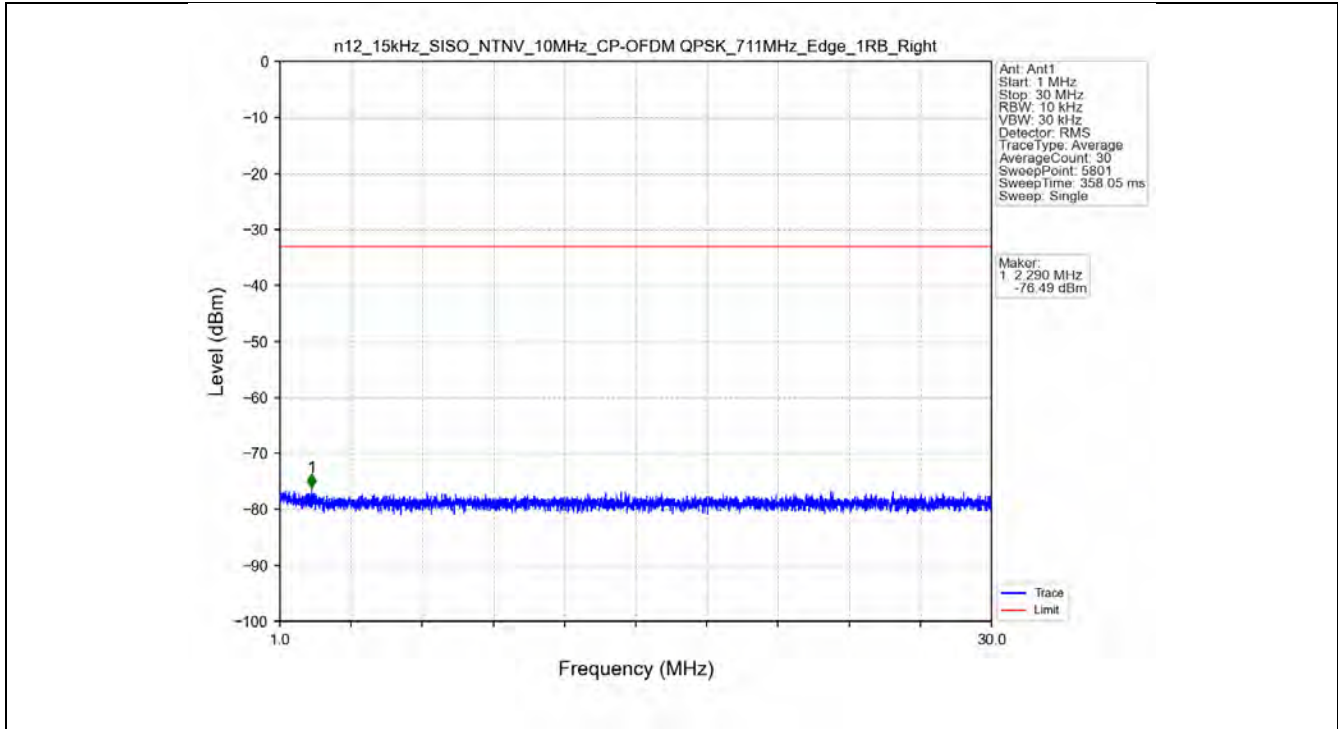


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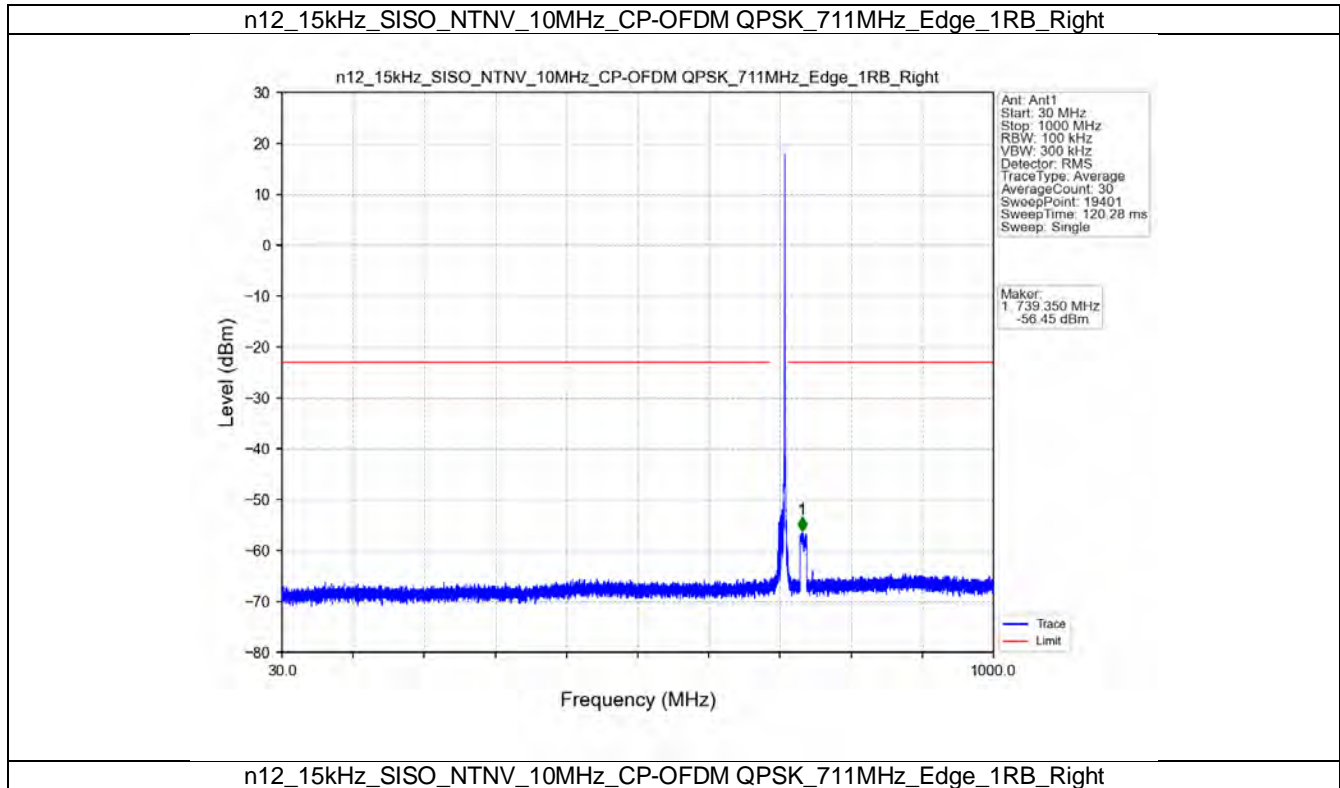


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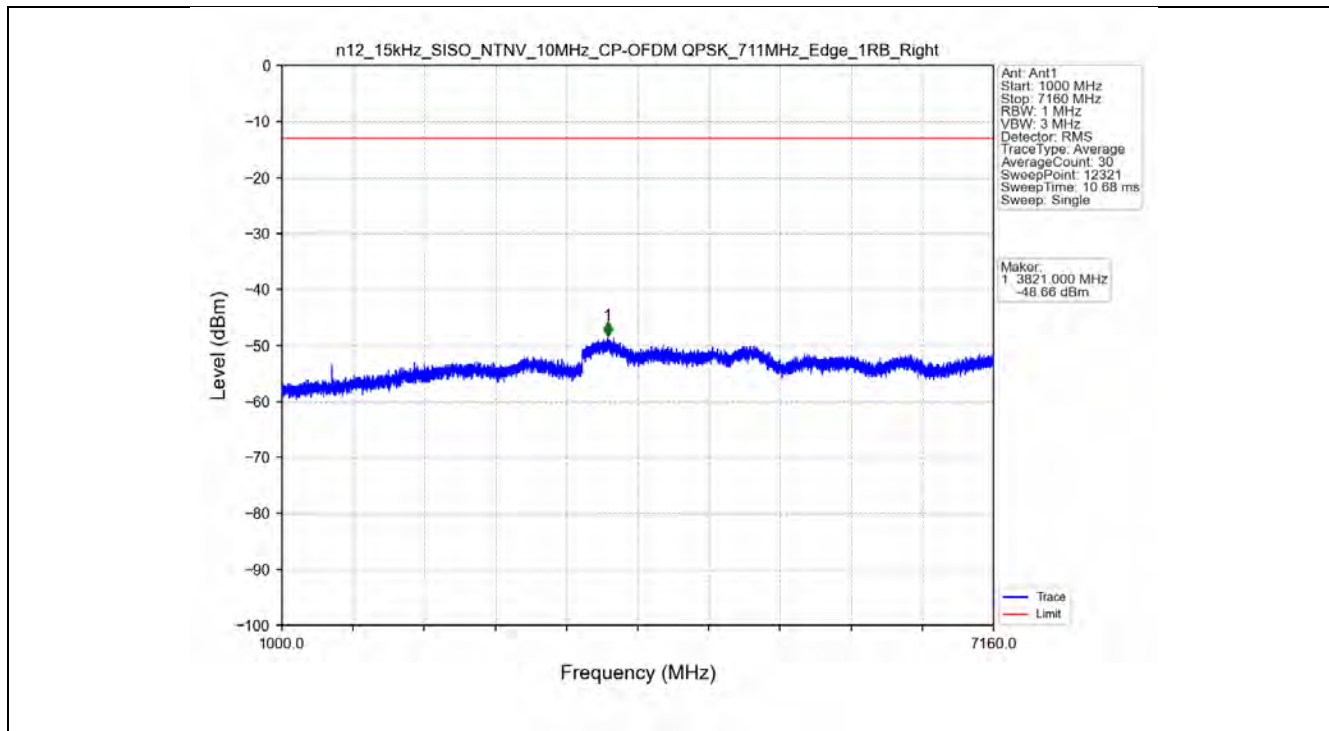
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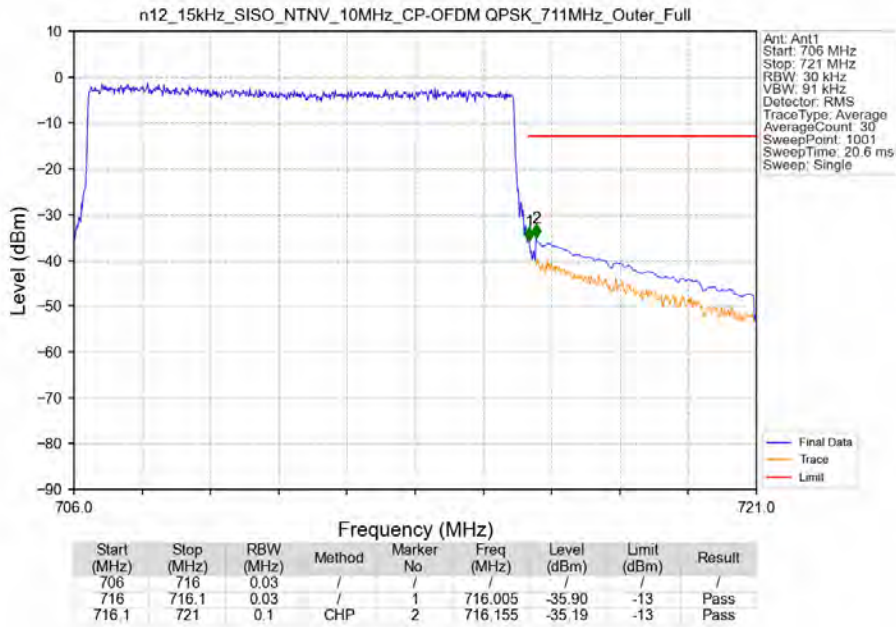
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n12_15kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_711MHz_Outer_Full



n12_15kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_711MHz_Inner_1RB_Right



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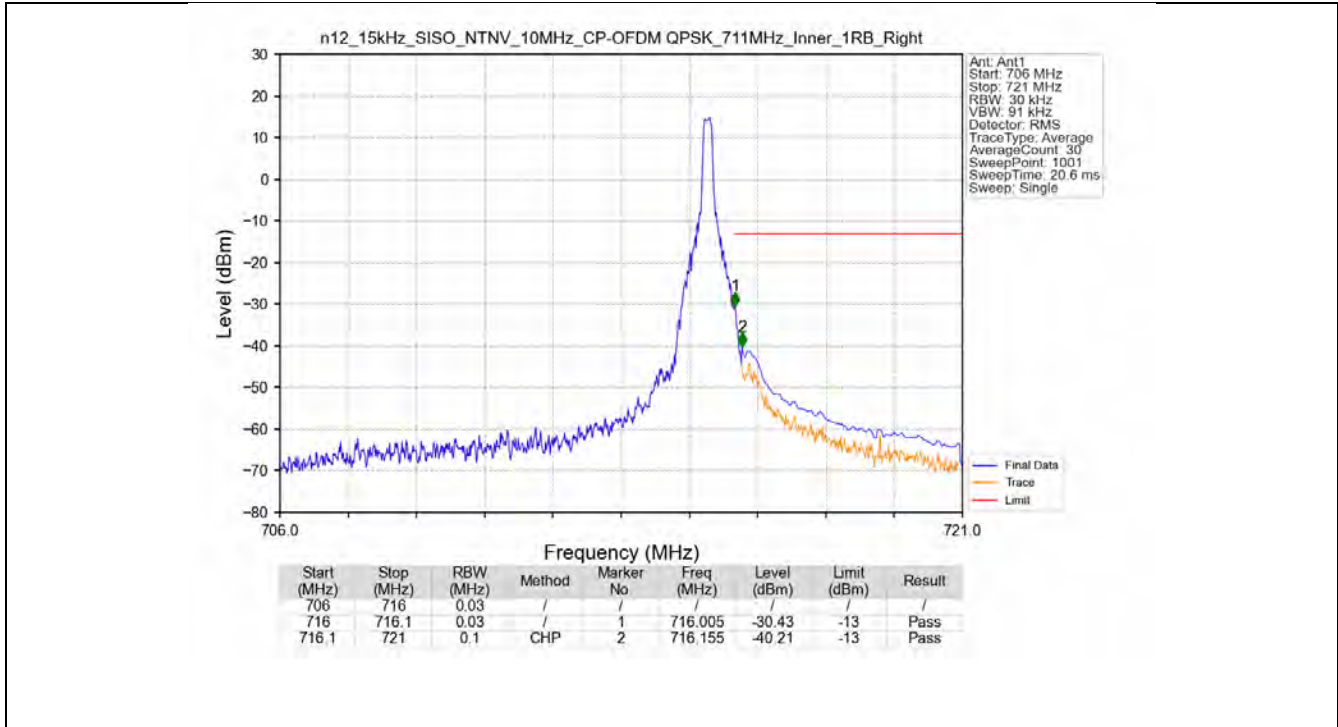


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5.3 15k_SISO_15MHz_NTNV

5.3.1 Test Result

| 5G NR n12 SCS=15kHz SISO 15MHz NTV | | | | | | | |
|------------------------------------|-----------------|---------------------|---------------------|------|-----|-------|---------|
| Modulation | Frequency (MHz) | RB Allocation | Spurious Emission | | | | Verdict |
| | | | Ant1 | Ant2 | Sum | Limit | |
| DFT-s-OFDM PI/2 BPSK | 706.5 | Edge_1RB_Left | Refer To Test Graph | | | | Pass |
| | | Outer_Full | Refer To Test Graph | | | | Pass |
| | | Inner_1RB_Left | Refer To Test Graph | | | | Pass |
| | 707.5 | Edge_1RB_Left | Refer To Test Graph | | | | Pass |
| | | Edge_1RB_Right | Refer To Test Graph | | | | Pass |
| | | Outer_Full | Refer To Test Graph | | | | Pass |
| DFT-s-OFDM QPSK | 706.5 | Inner_1RB_Right | Refer To Test Graph | | | | Pass |
| | | Edge_1RB_Left | Refer To Test Graph | | | | Pass |
| | | Outer_Full | Refer To Test Graph | | | | Pass |
| | 707.5 | Inner_1RB_Left | Refer To Test Graph | | | | Pass |
| | | Edge_1RB_Left | Refer To Test Graph | | | | Pass |
| | | Edge_1RB_Right | Refer To Test Graph | | | | Pass |
| CP-OFDM QPSK | 708.5 | Outer_Full | Refer To Test Graph | | | | Pass |
| | | Inner_1RB_Right | Refer To Test Graph | | | | Pass |
| | | Edge_1RB_Left | Refer To Test Graph | | | | Pass |
| | 706.5 | Outer_Full | Refer To Test Graph | | | | Pass |
| | | Inner_1RB_Left | Refer To Test Graph | | | | Pass |
| | | Edge_1RB_Left | Refer To Test Graph | | | | Pass |
| 707.5 | Edge_1RB_Left | Refer To Test Graph | | | | Pass | |
| | Edge_1RB_Right | Refer To Test Graph | | | | Pass | |
| | Outer_Full | Refer To Test Graph | | | | Pass | |
| 708.5 | Inner_1RB_Right | Refer To Test Graph | | | | Pass | |
| | Outer_Full | Refer To Test Graph | | | | Pass | |
| | Inner_1RB_Right | Refer To Test Graph | | | | Pass | |



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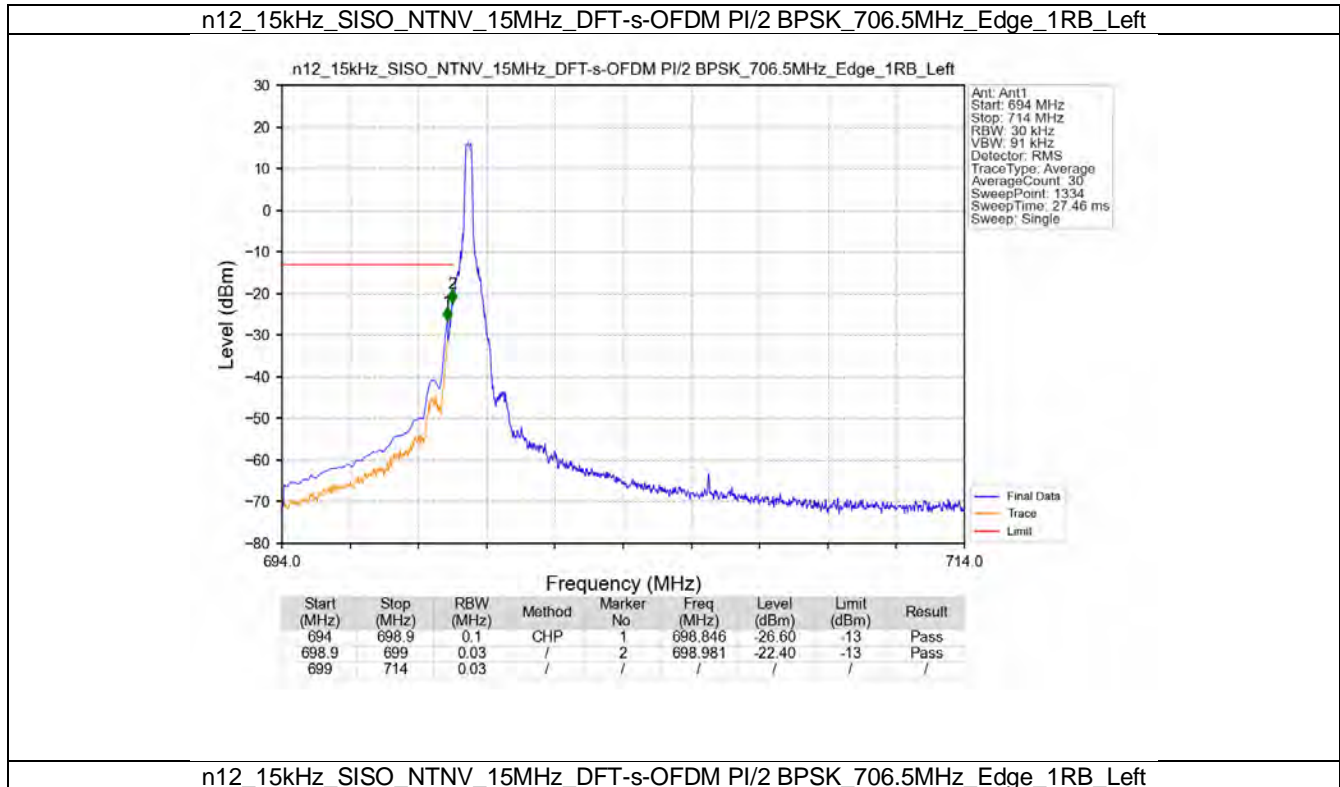
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5.3.2 Test Graph



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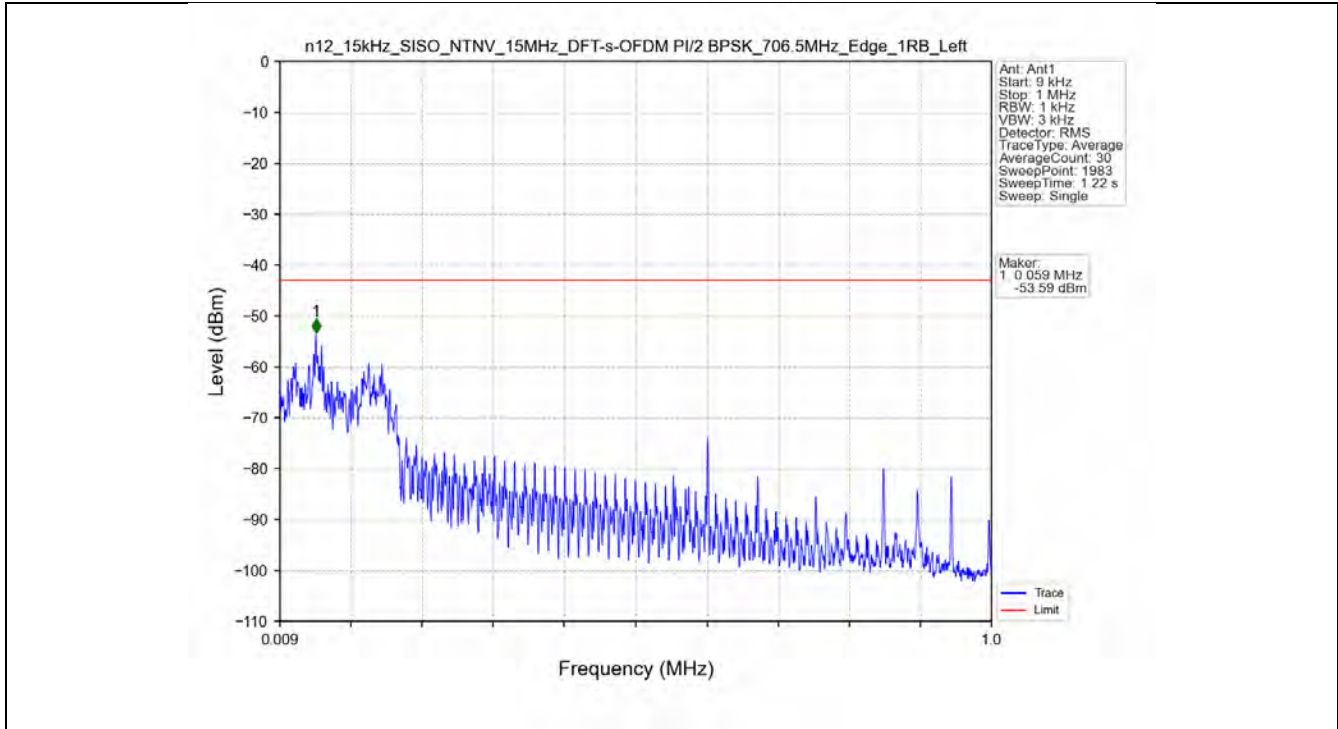


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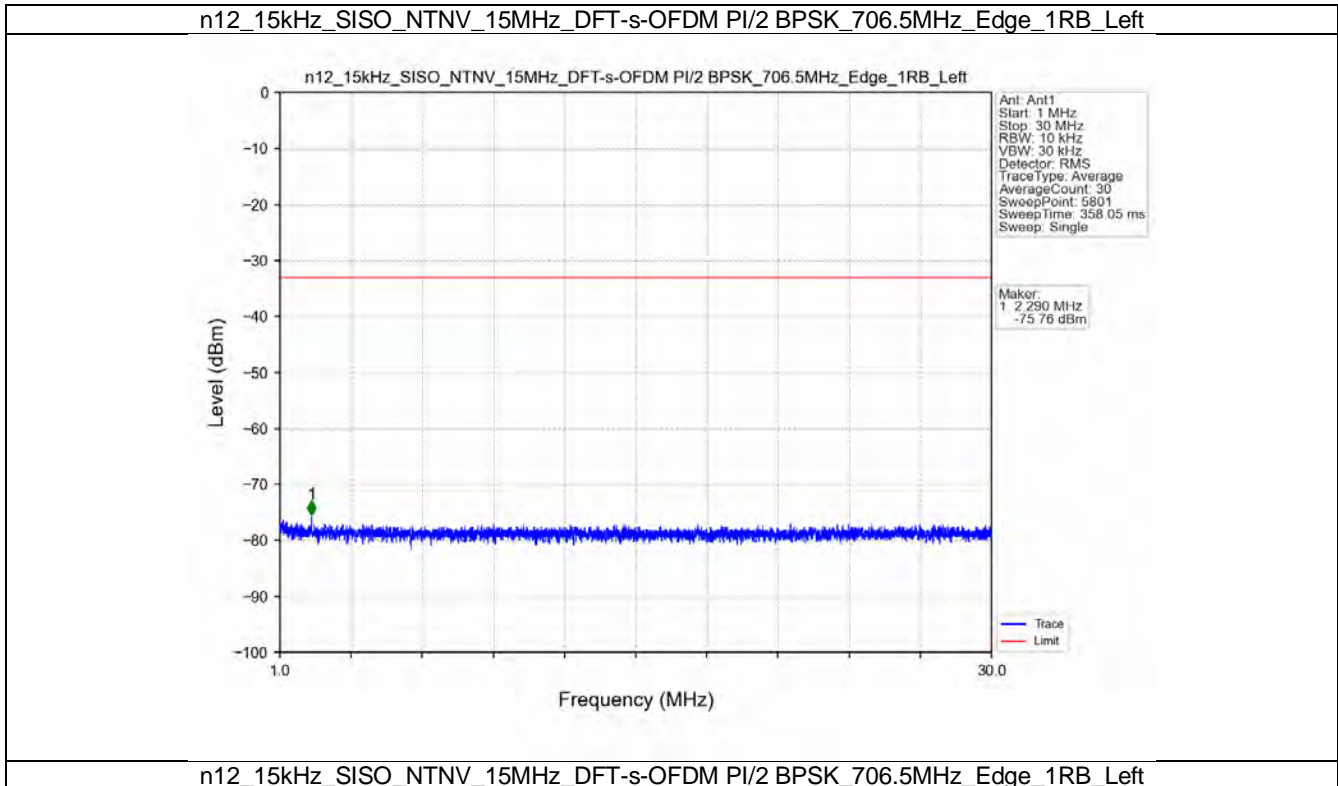


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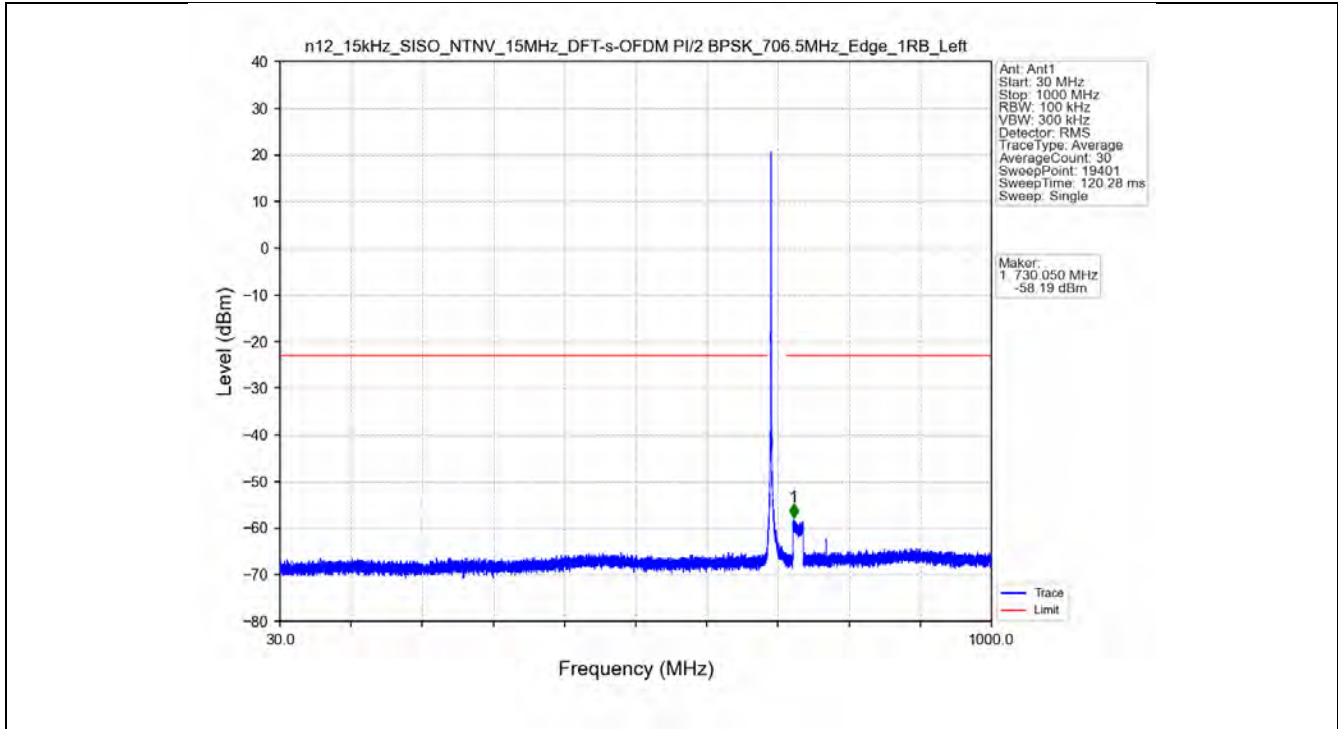


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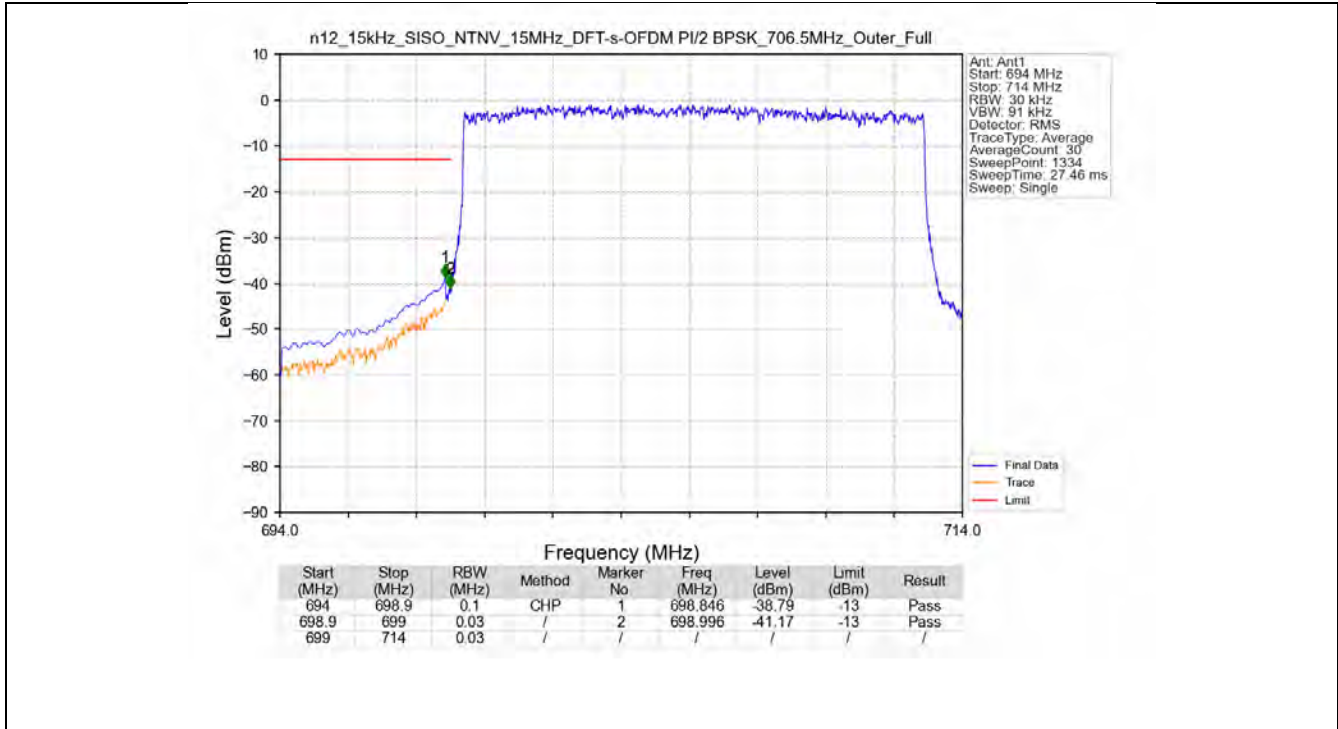


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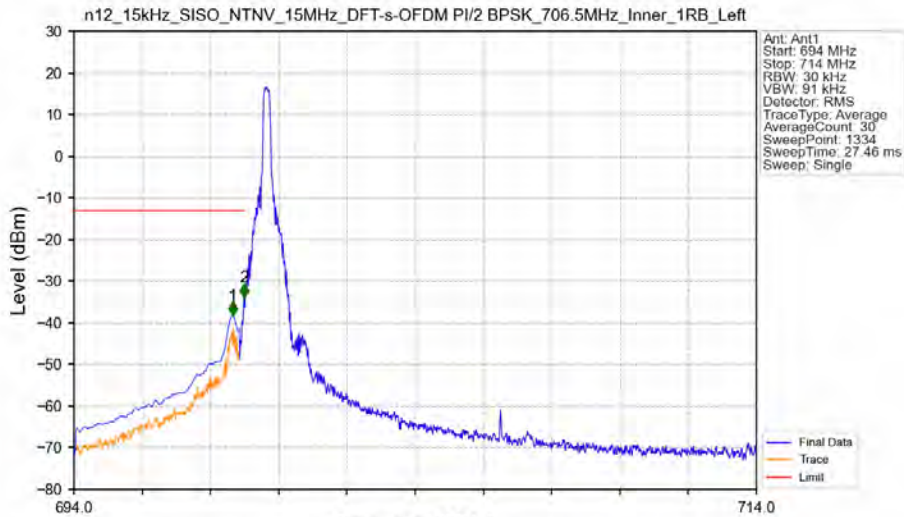
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n12_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_706.5MHz_Inner_1RB_Left



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 694 | 698.9 | 0.1 | CHP | 1 | 698.651 | -38.25 | -13 | Pass |
| 698.9 | 699 | 0.03 | / | 2 | 698.981 | -33.94 | -13 | Pass |
| 699 | 714 | 0.03 | / | / | / | / | / | / |

n12_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_707.5MHz_Edge_1RB_Left



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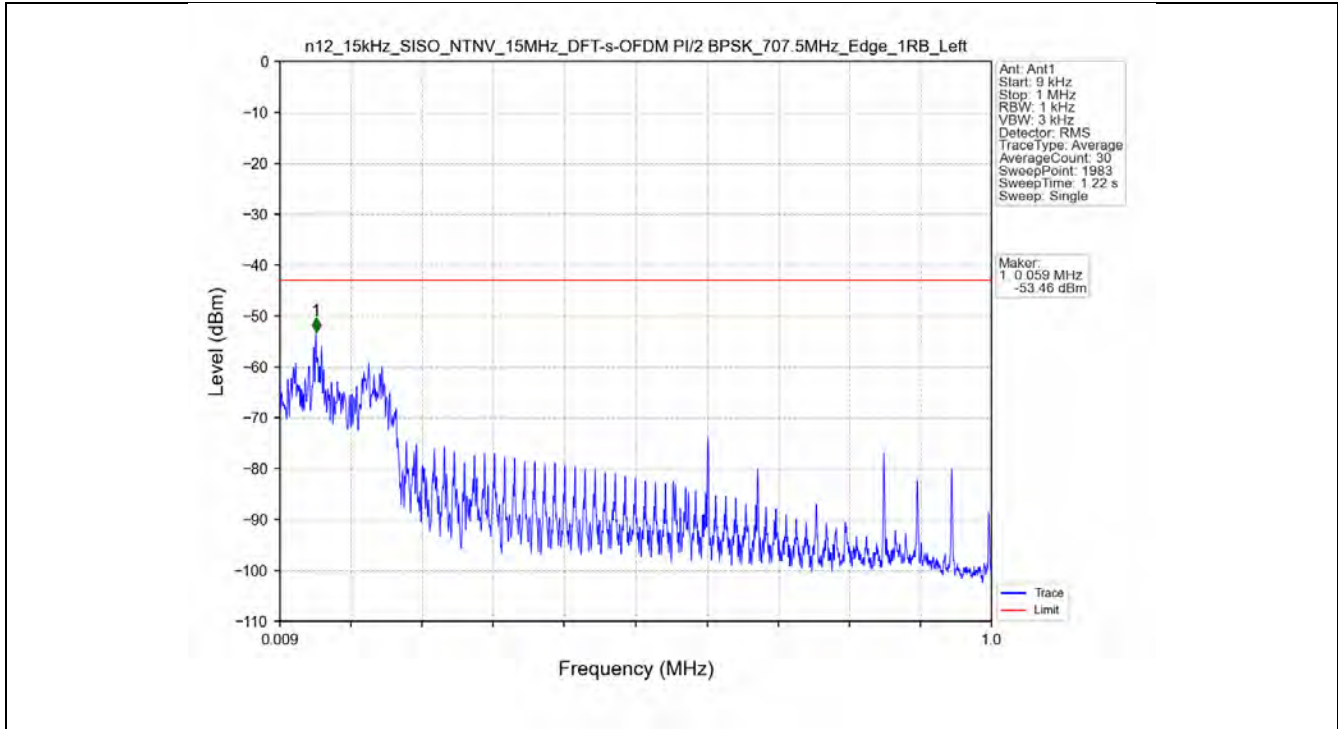


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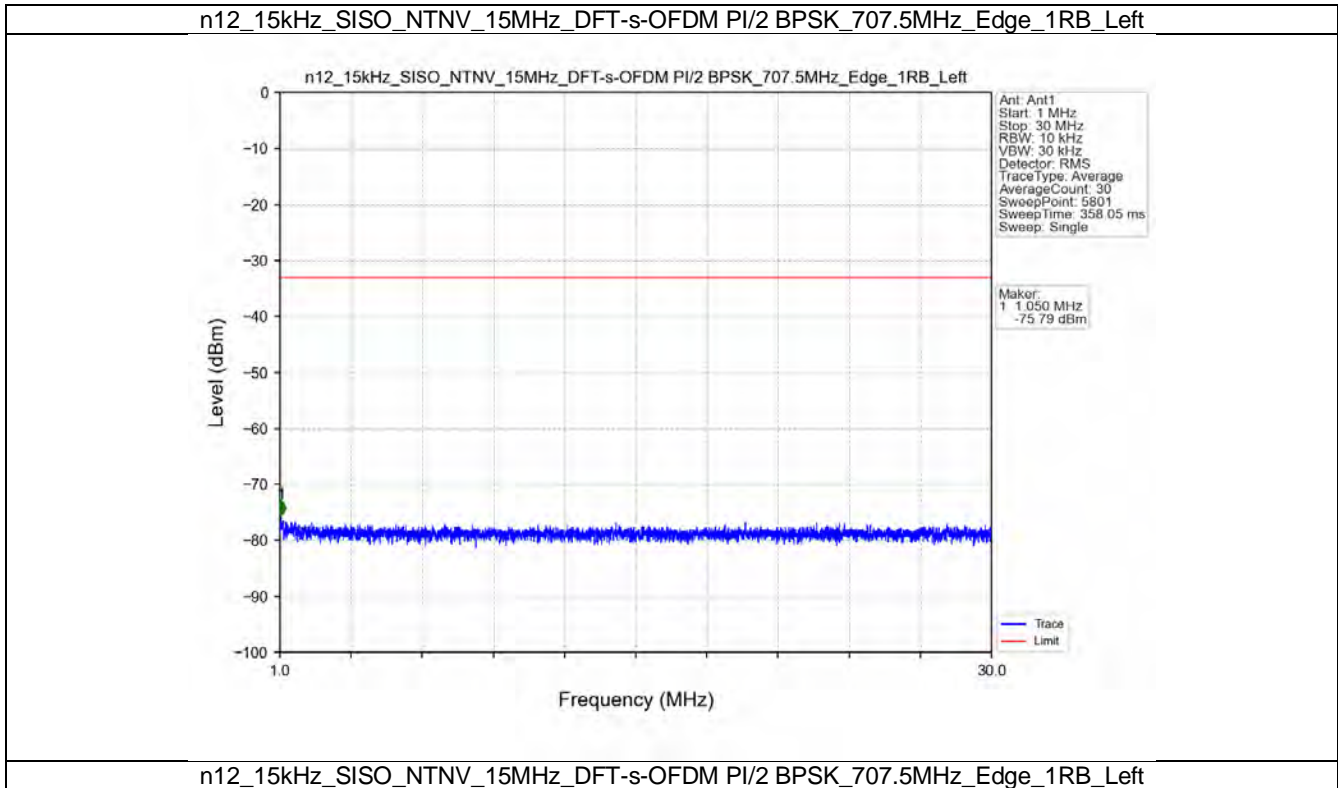


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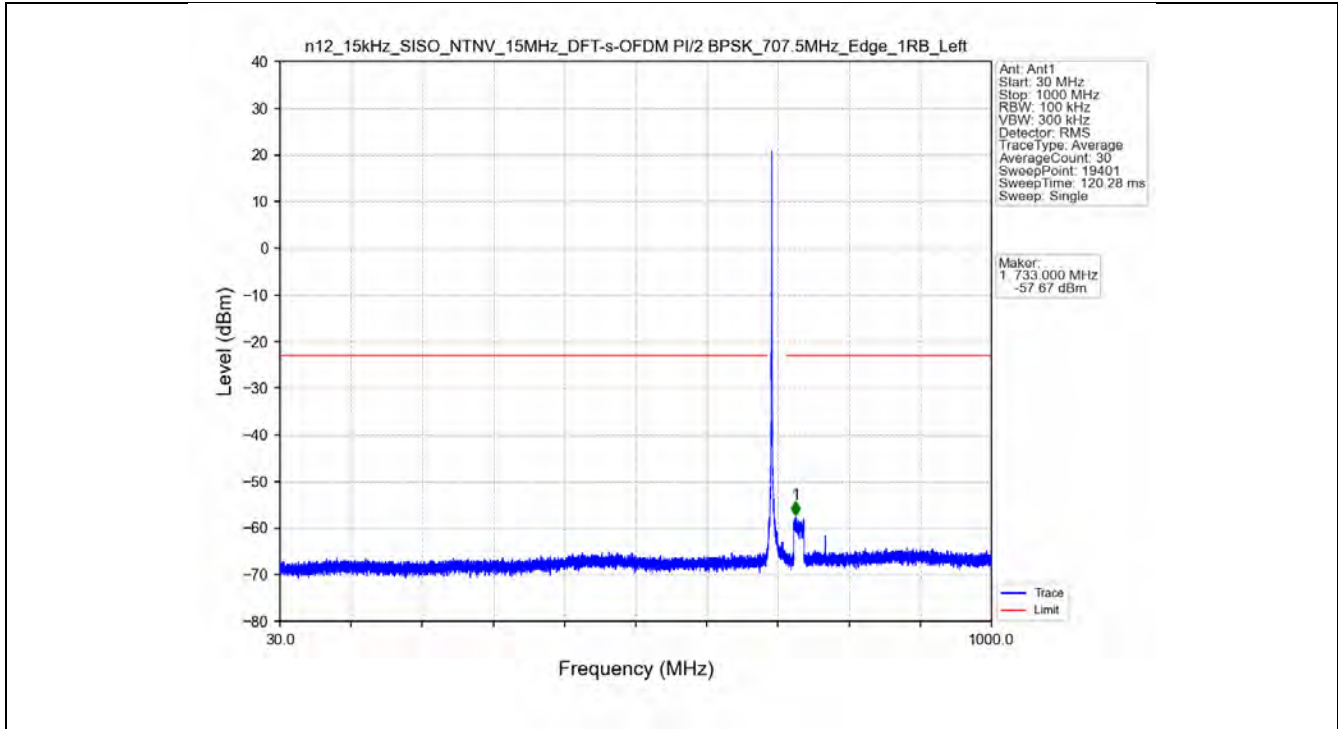


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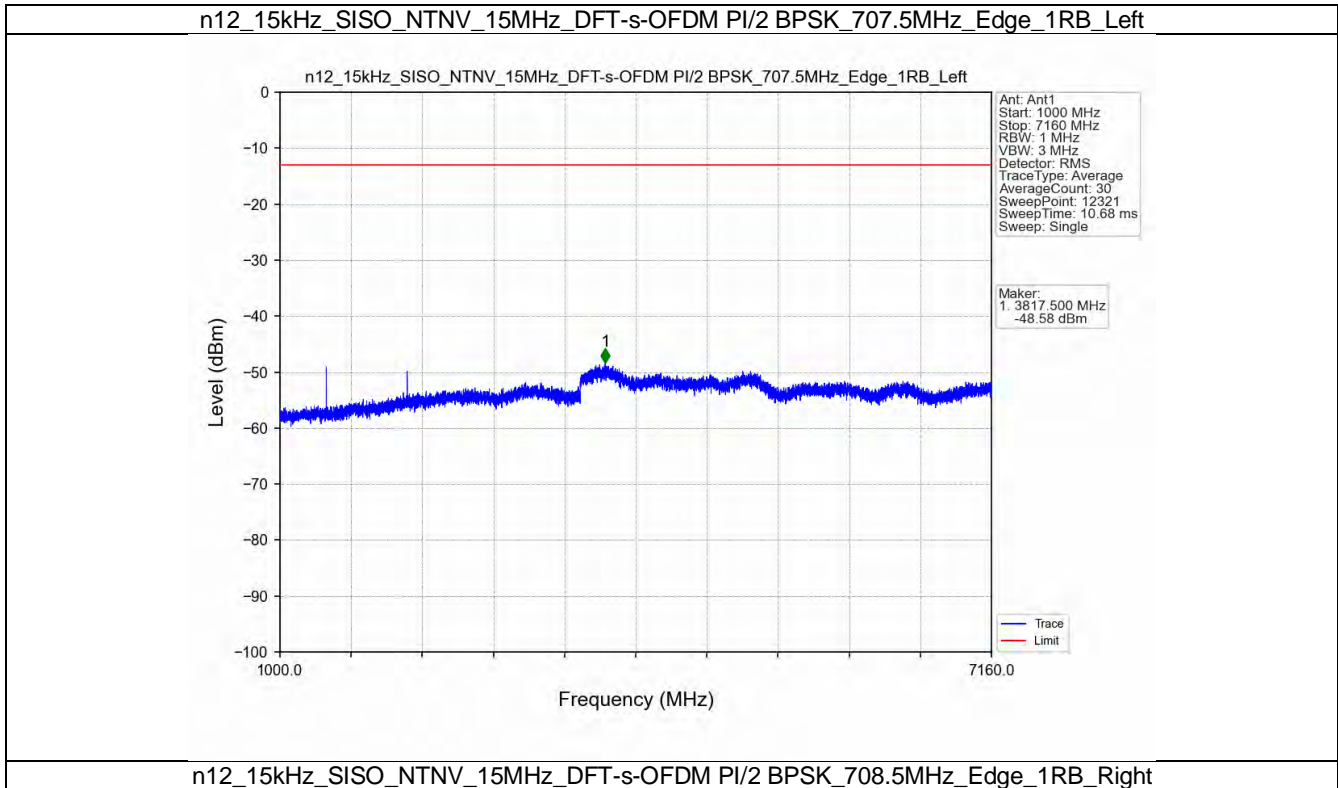


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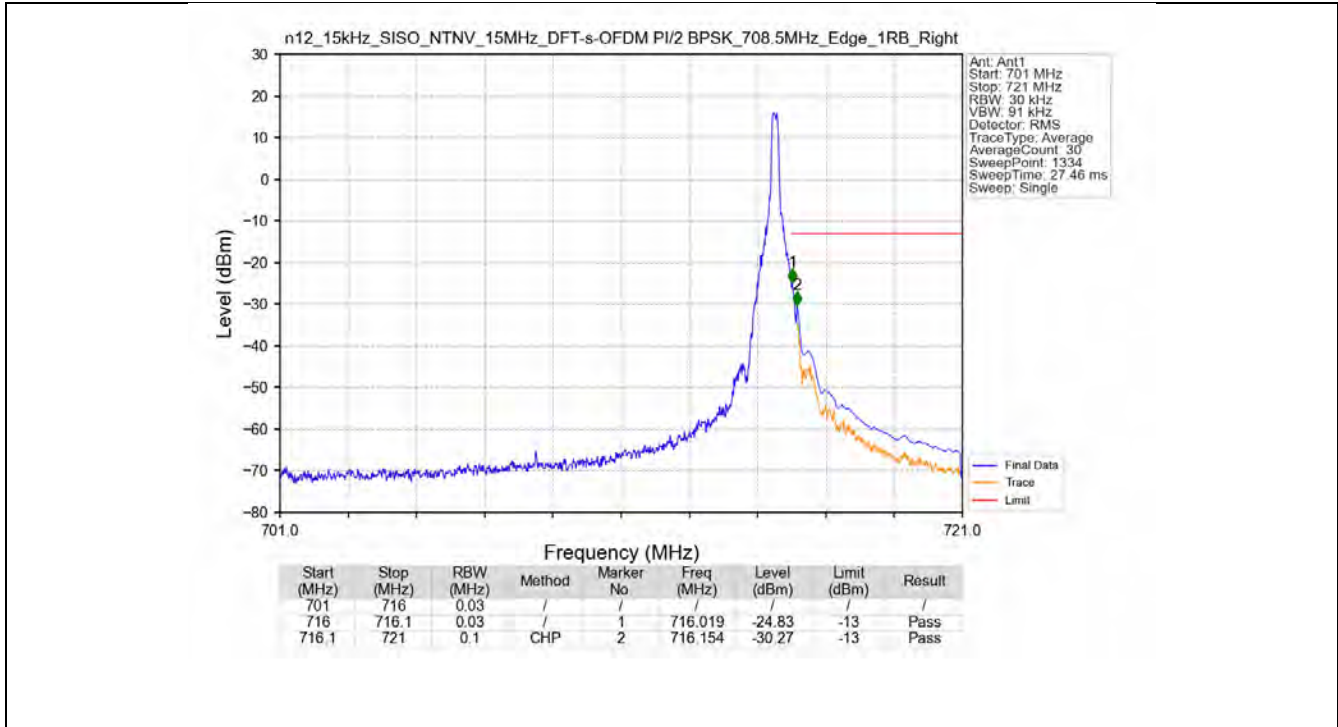


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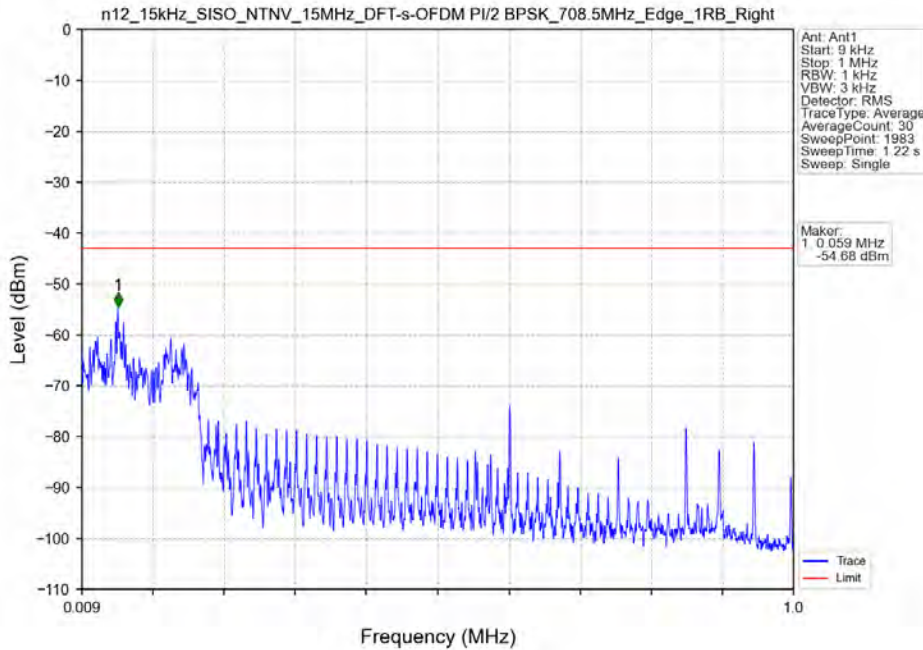
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n12_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_708.5MHz_Edge_1RB_Right



n12_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_708.5MHz_Edge_1RB_Right



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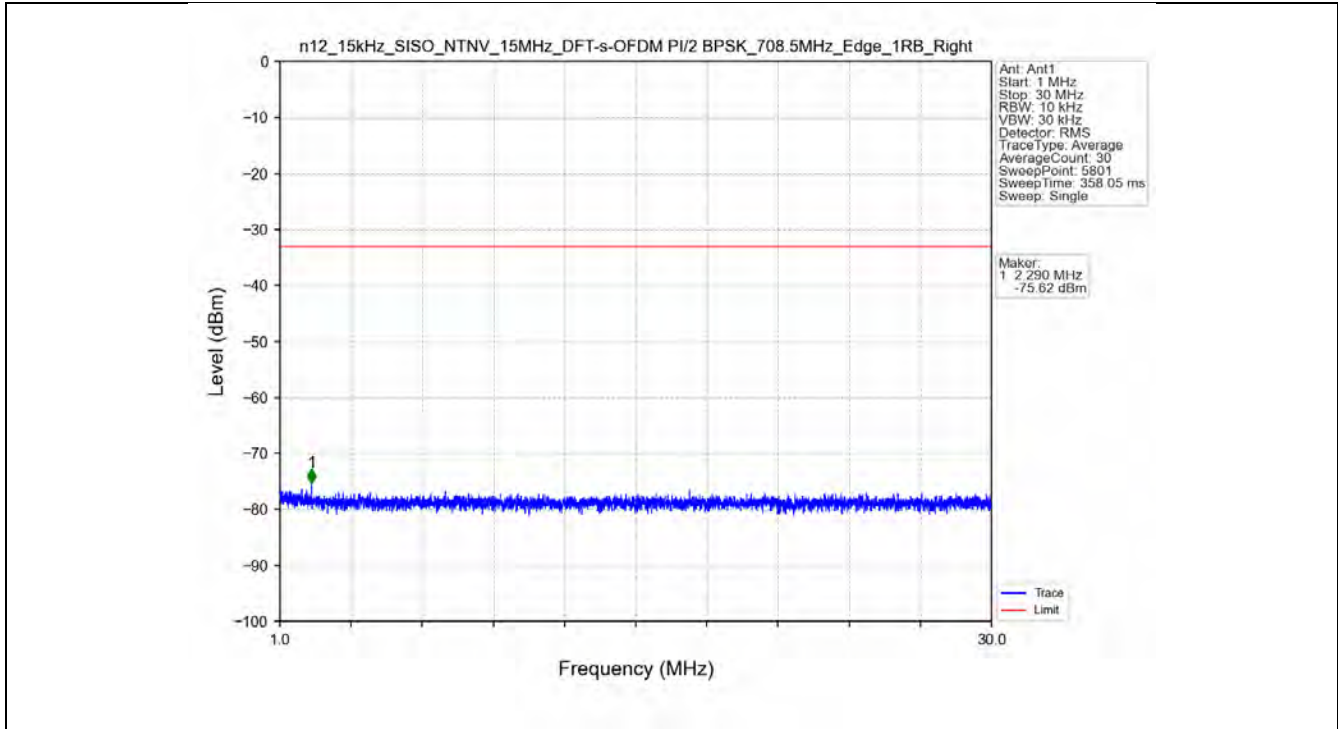


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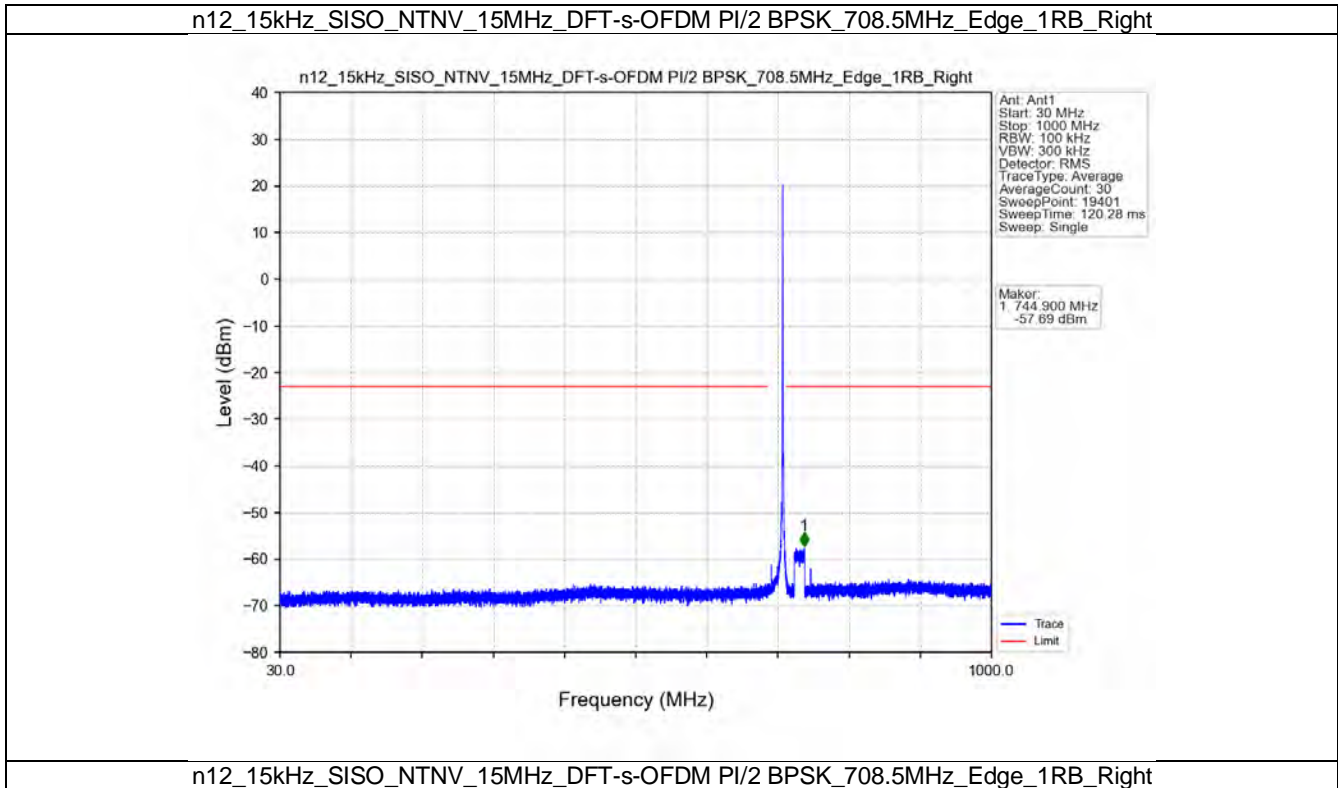


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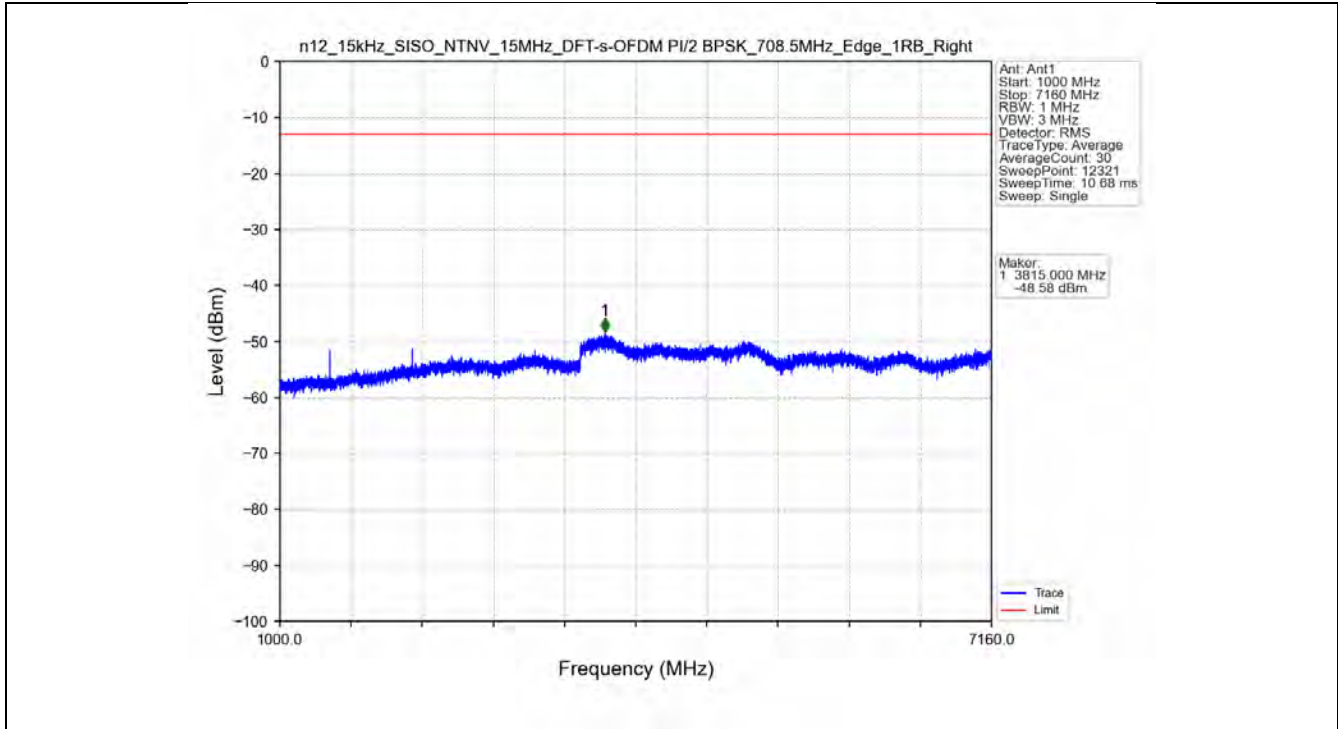


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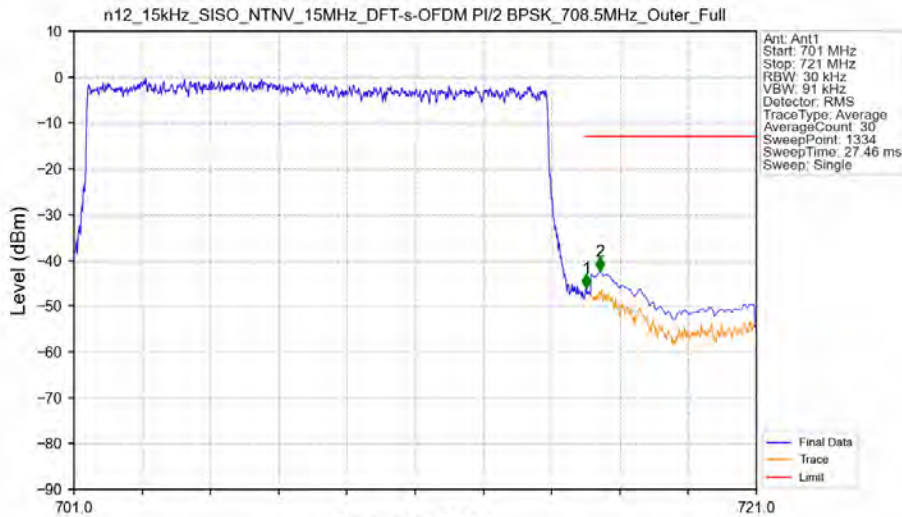
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n12_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_708.5MHz_Outer_Full



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 701 | 716 | 0.03 | / | / | / | / | / | / |
| 716 | 716.1 | 0.03 | / | 1 | 716.019 | -46.10 | -13 | Pass |
| 716.1 | 721 | 0.1 | CHP | 2 | 716.409 | -42.44 | -13 | Pass |

n12_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_708.5MHz_Inner_1RB_Right



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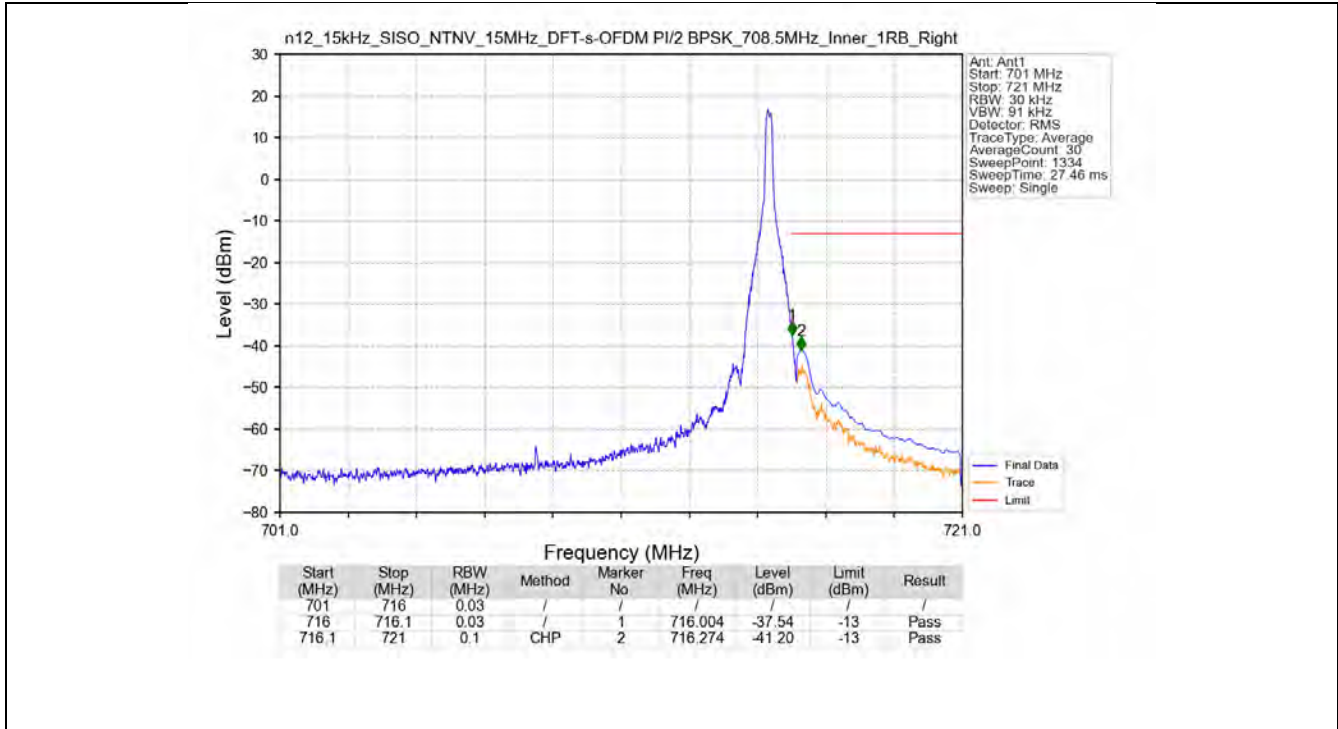


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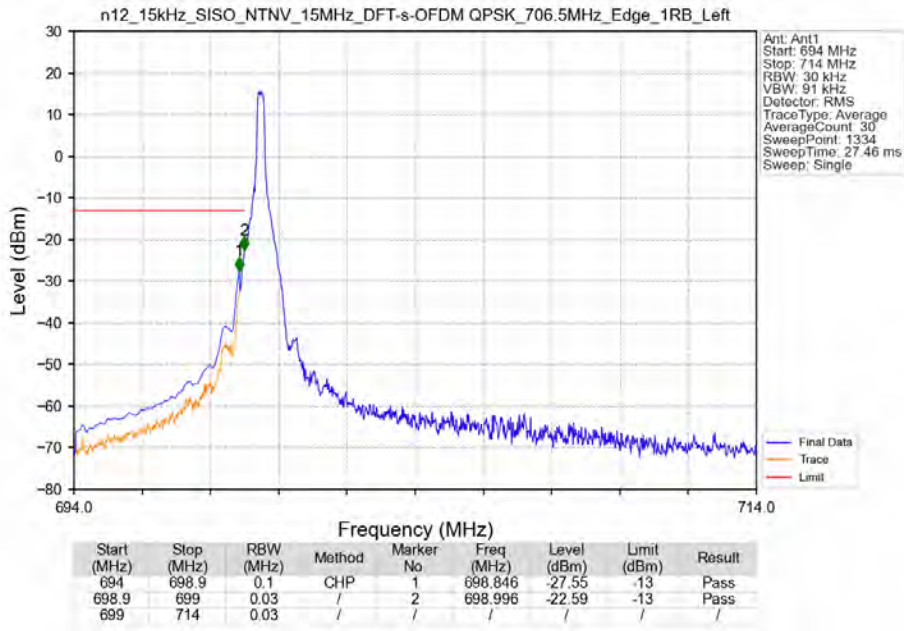
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n12_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_706.5MHz_Edge_1RB_Left



n12_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_706.5MHz_Edge_1RB_Left



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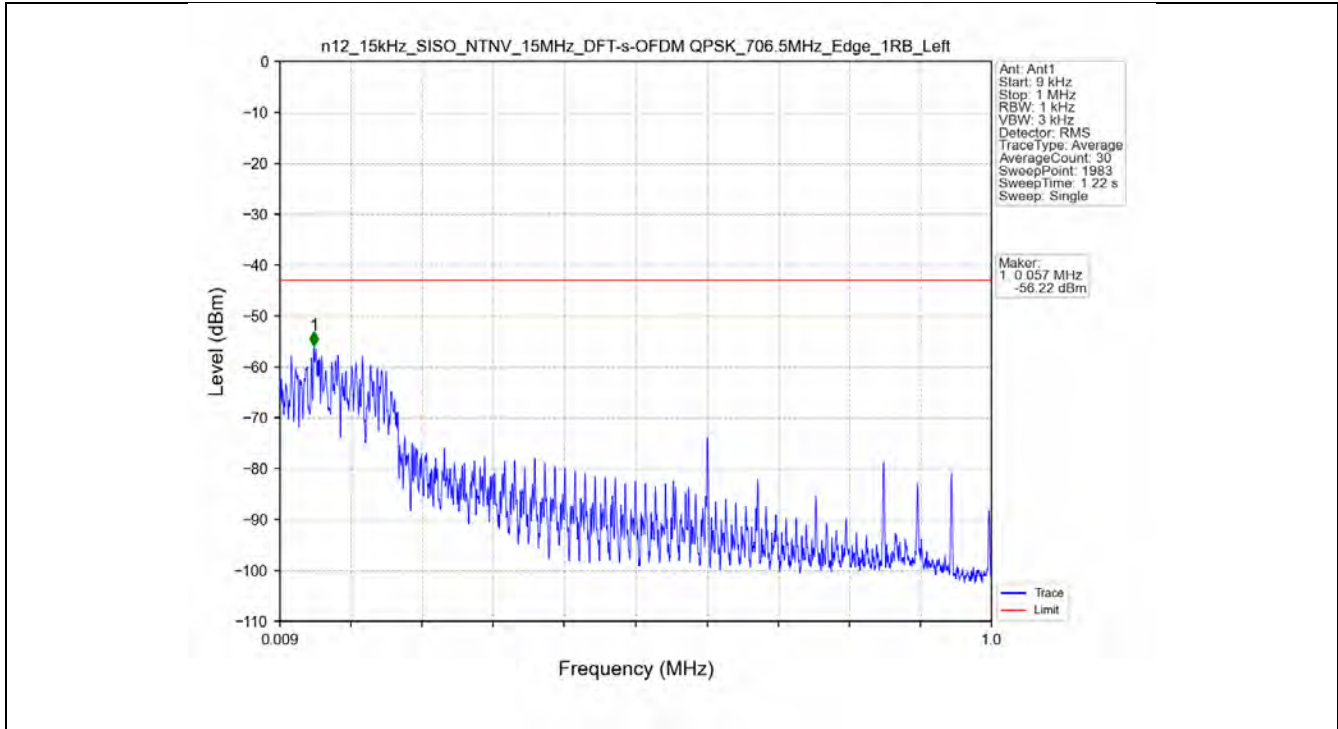


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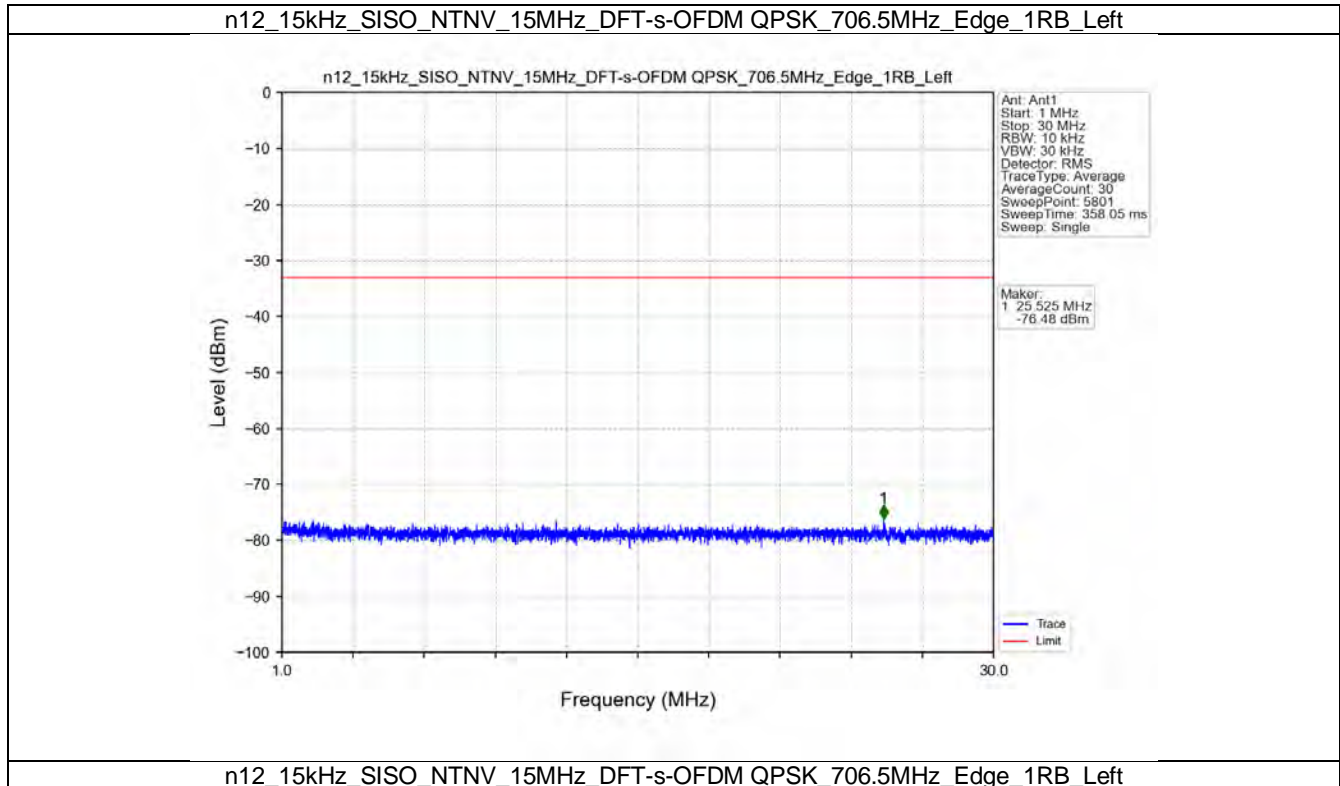


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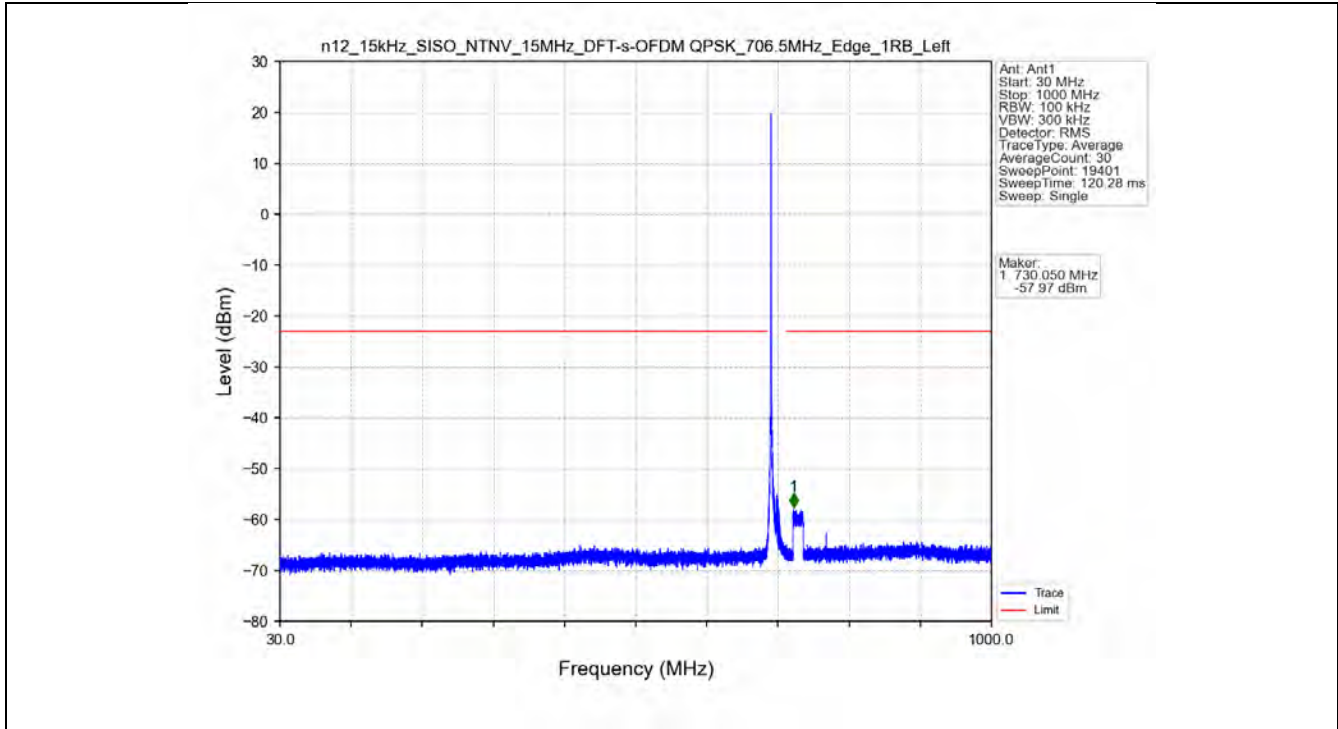


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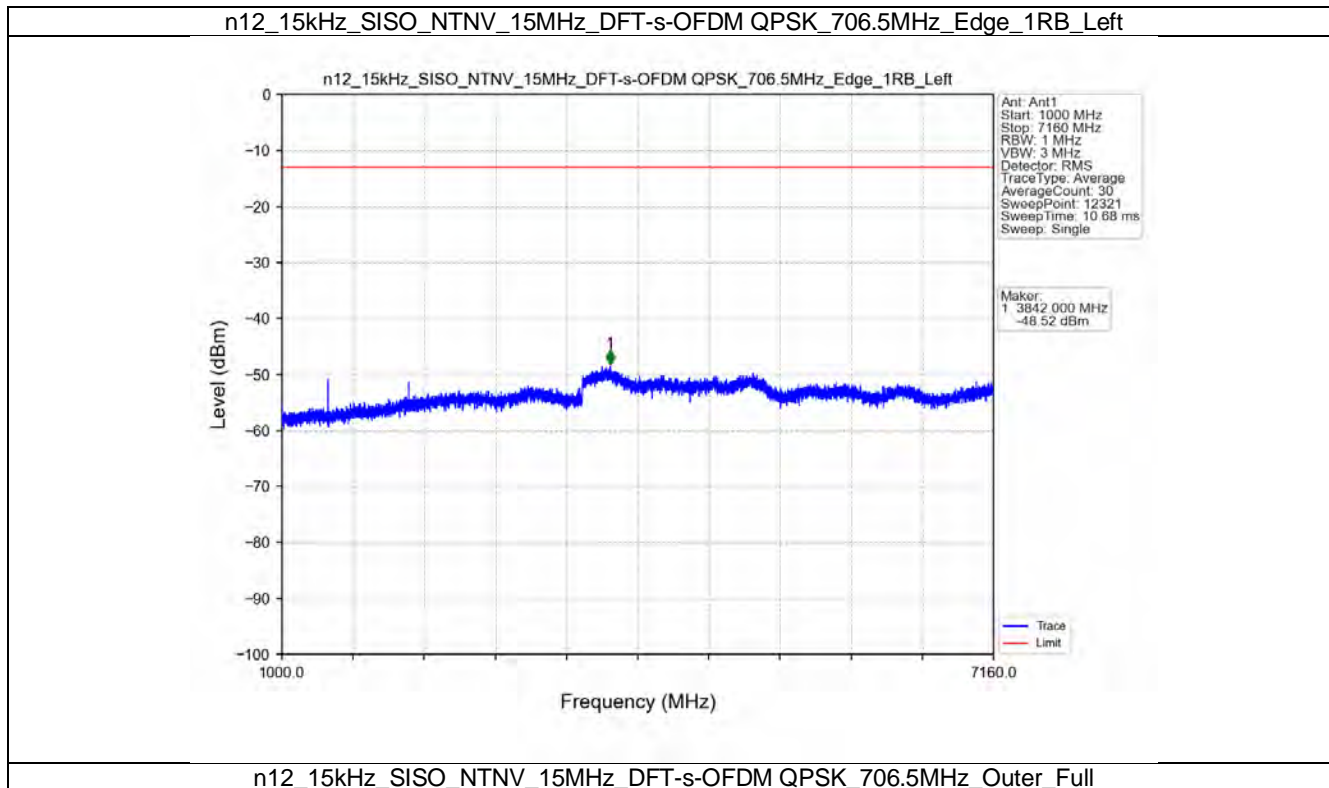
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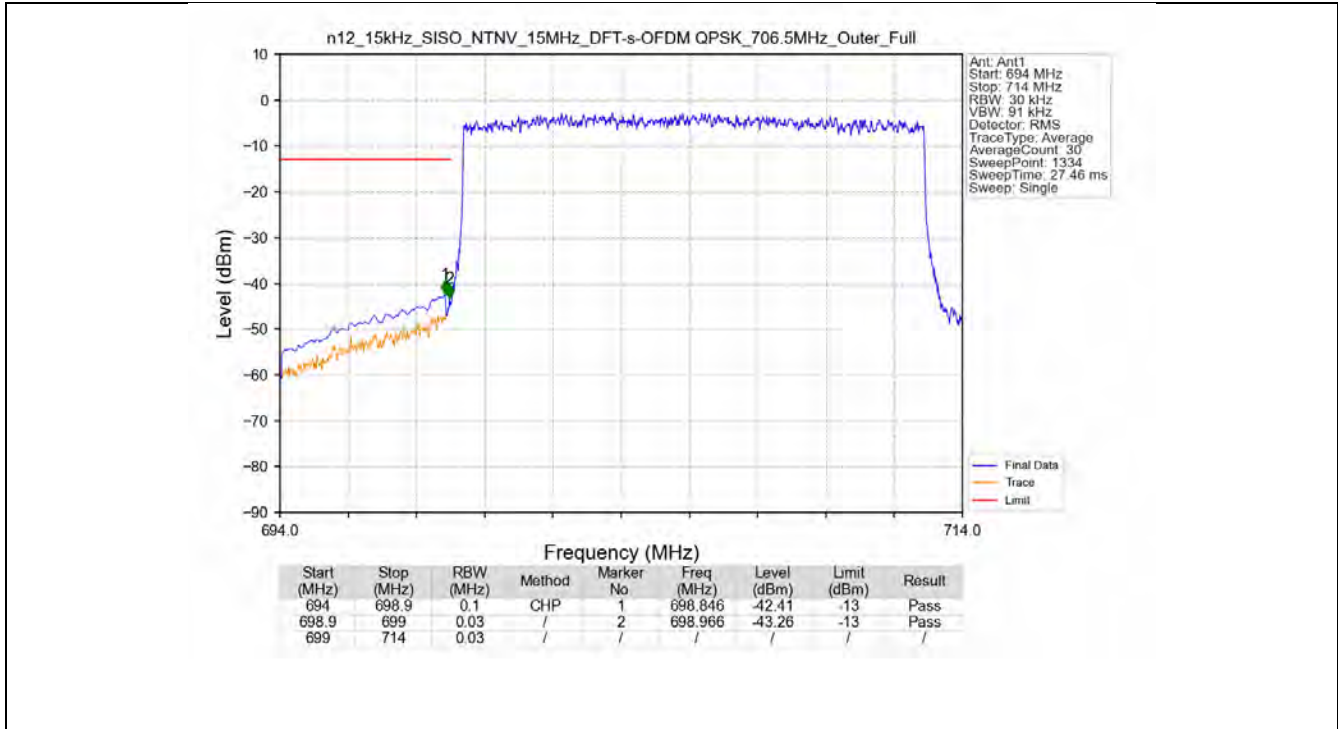


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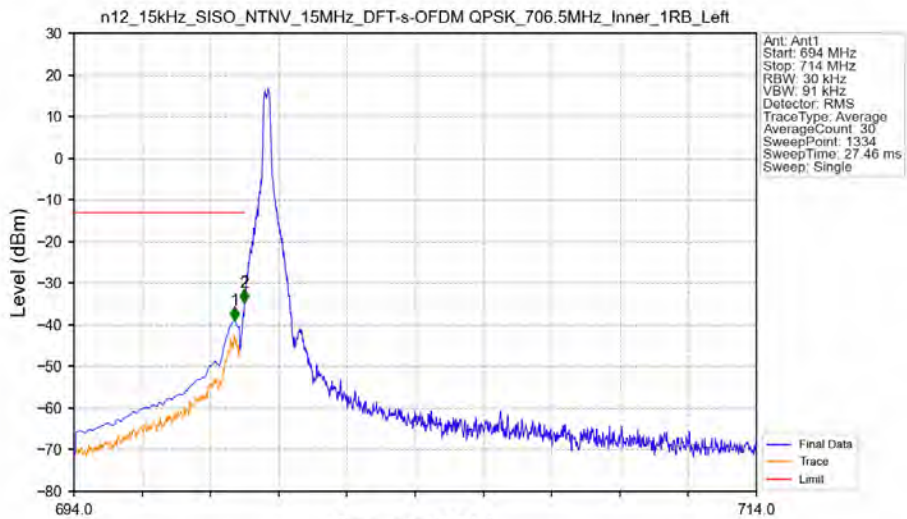
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n12_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_706.5MHz_Inner_1RB_Left



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 694 | 698.9 | 0.1 | CHP | 1 | 698.711 | -38.98 | -13 | Pass |
| 698.9 | 699 | 0.03 | / | 2 | 698.996 | -34.71 | -13 | Pass |
| 699 | 714 | 0.03 | / | / | / | / | / | / |

n12_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_707.5MHz_Edge_1RB_Left



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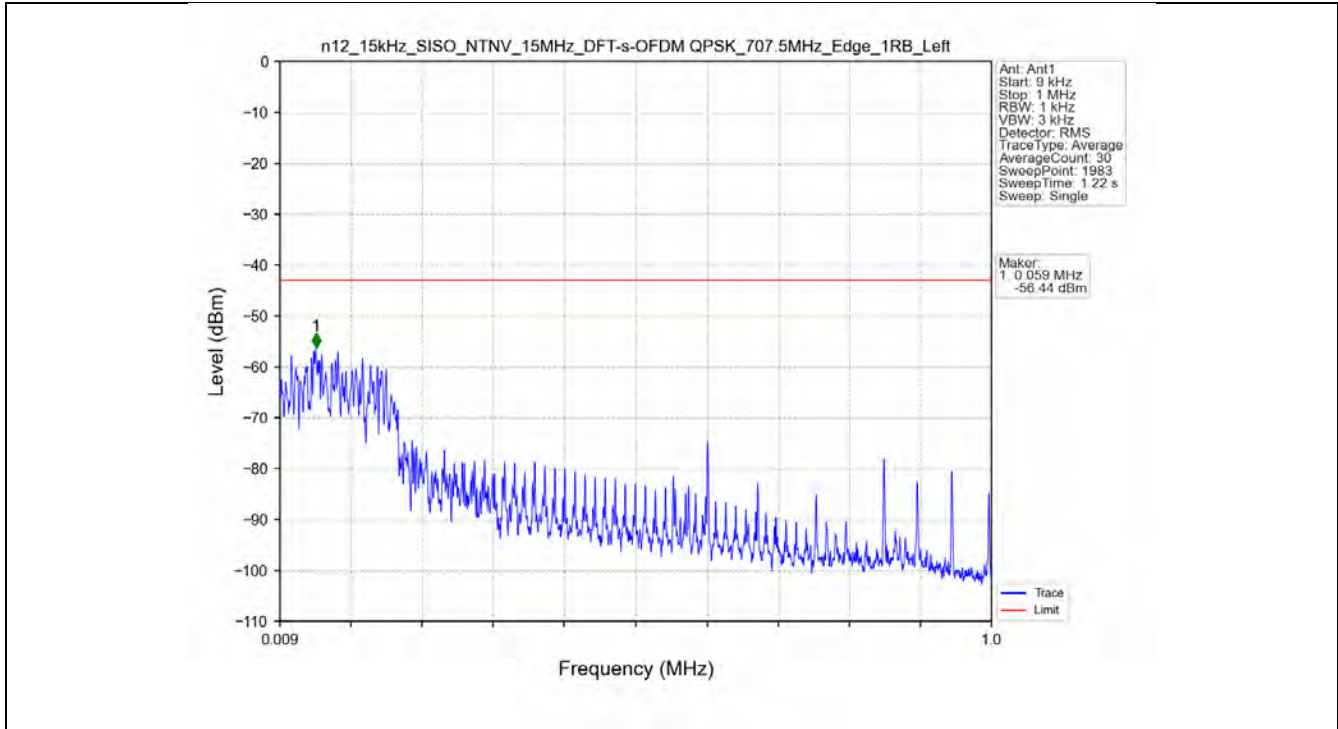


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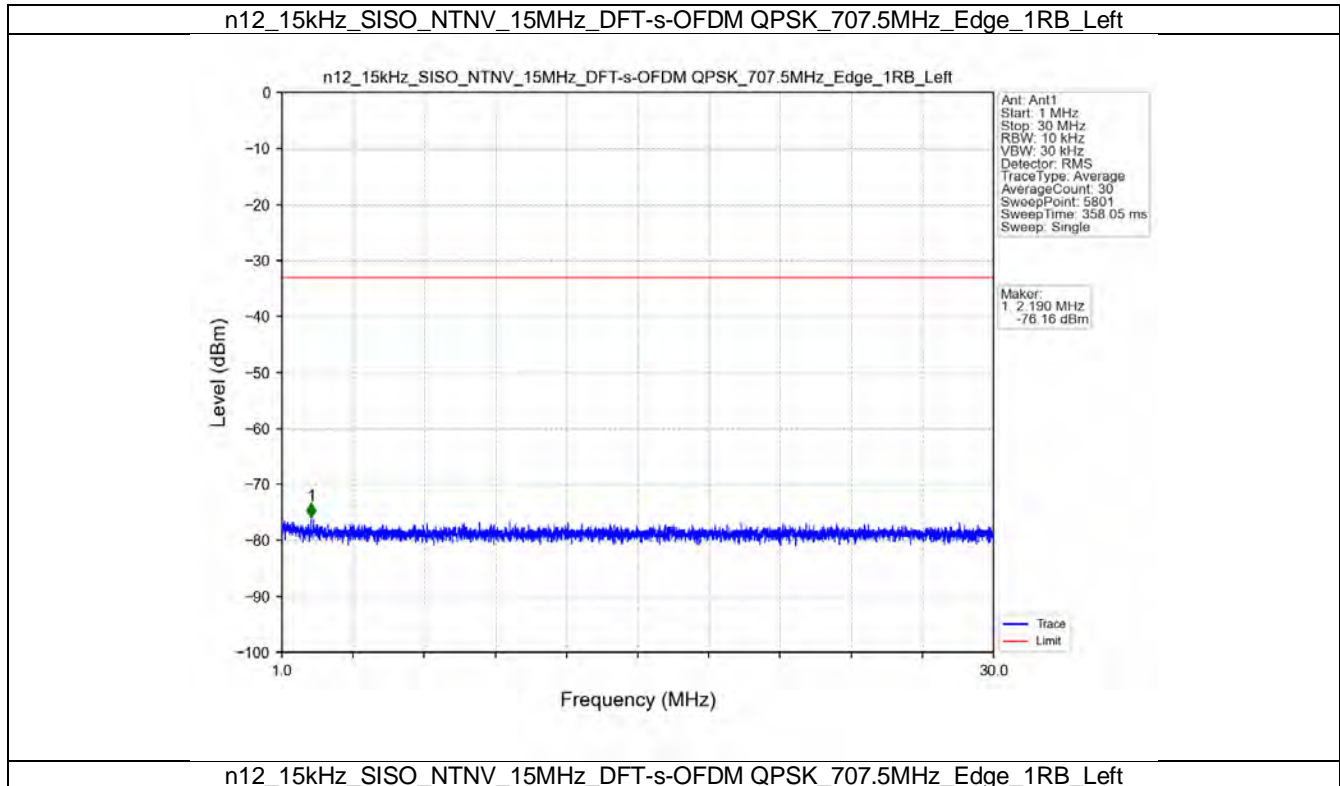


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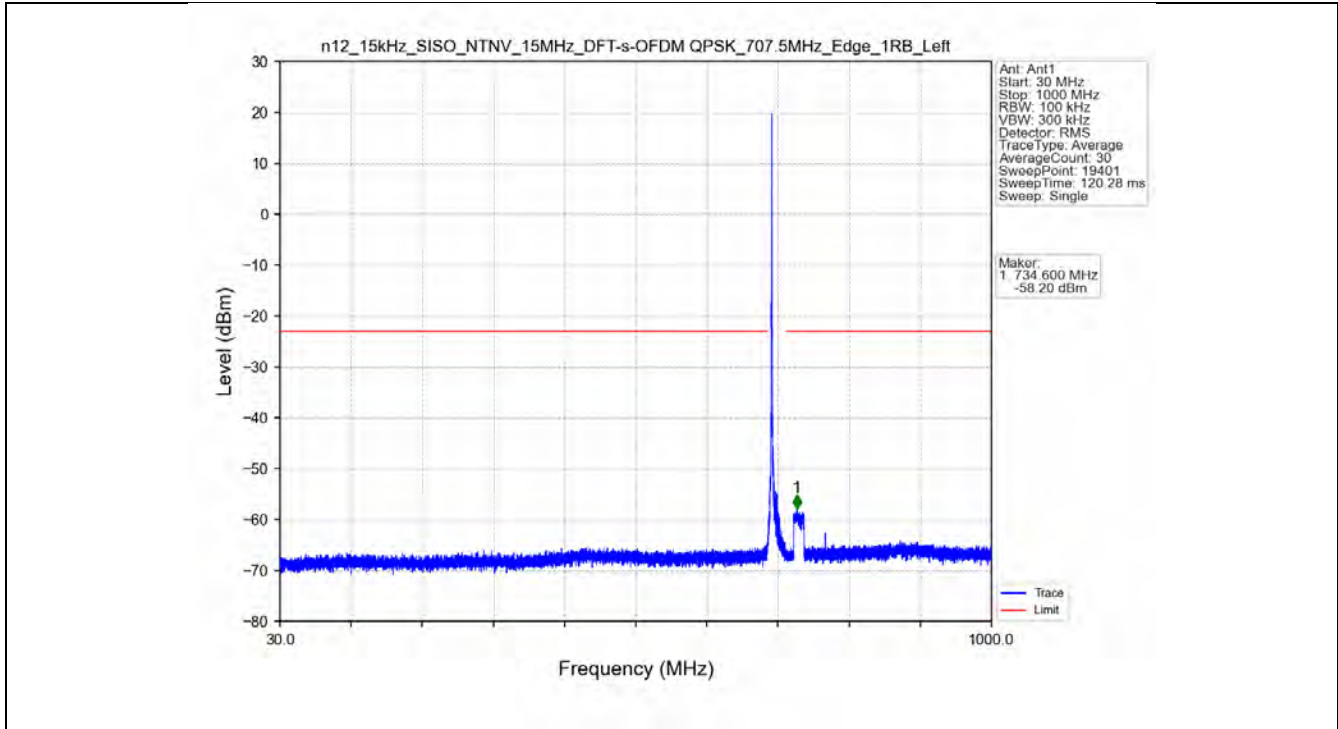


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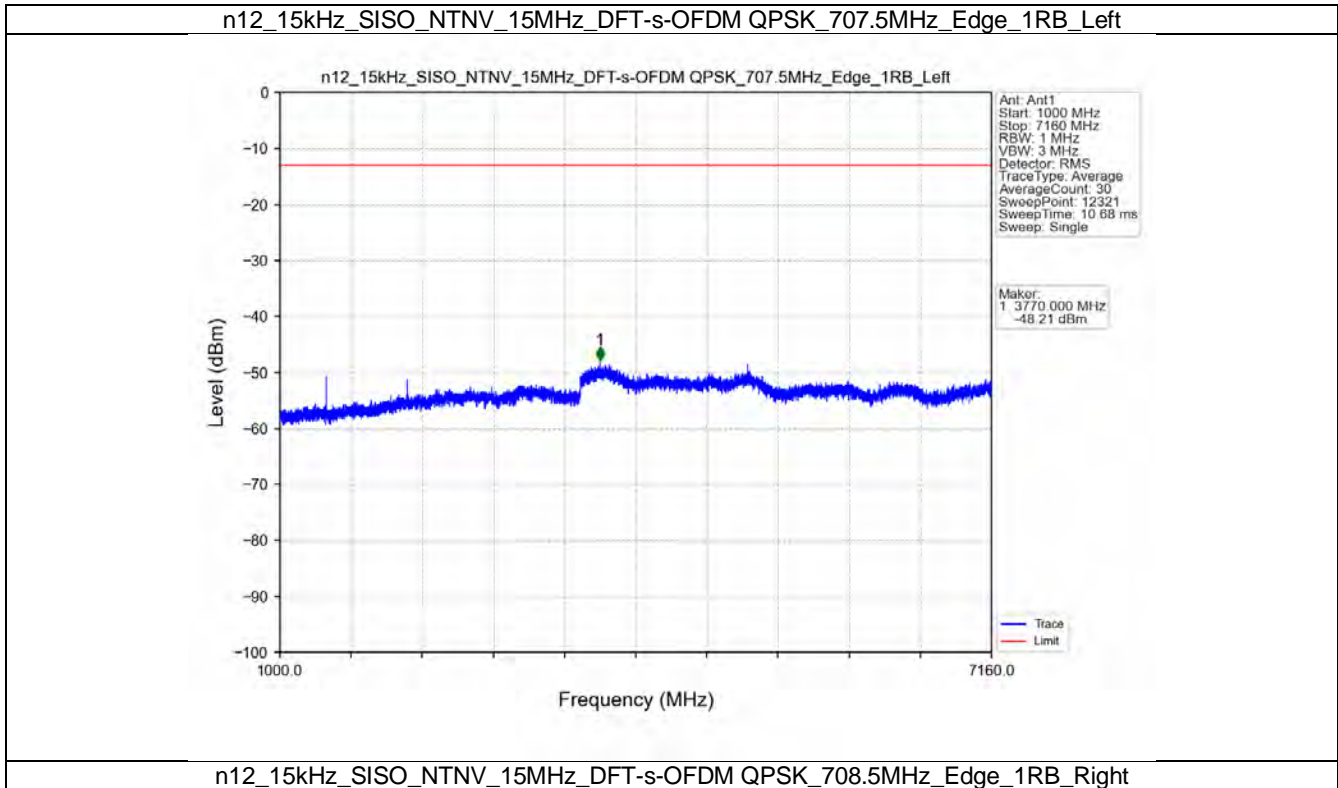


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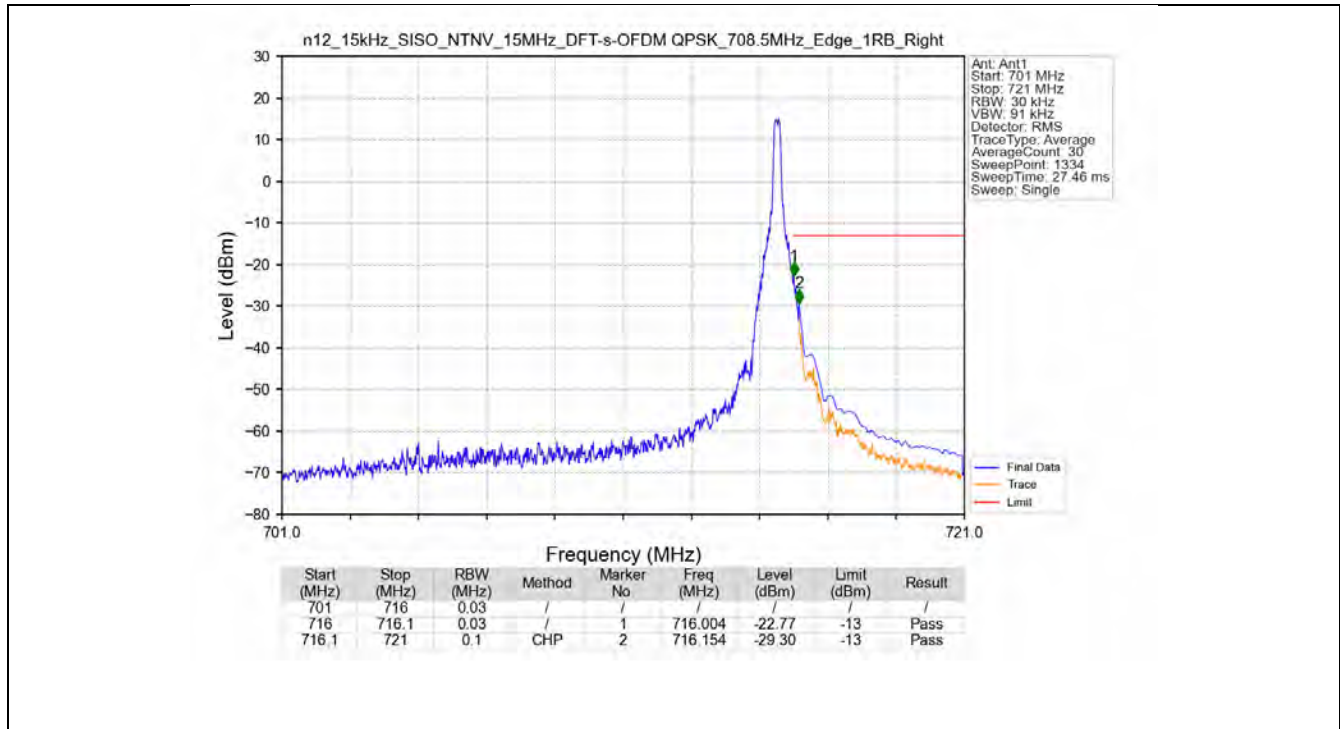


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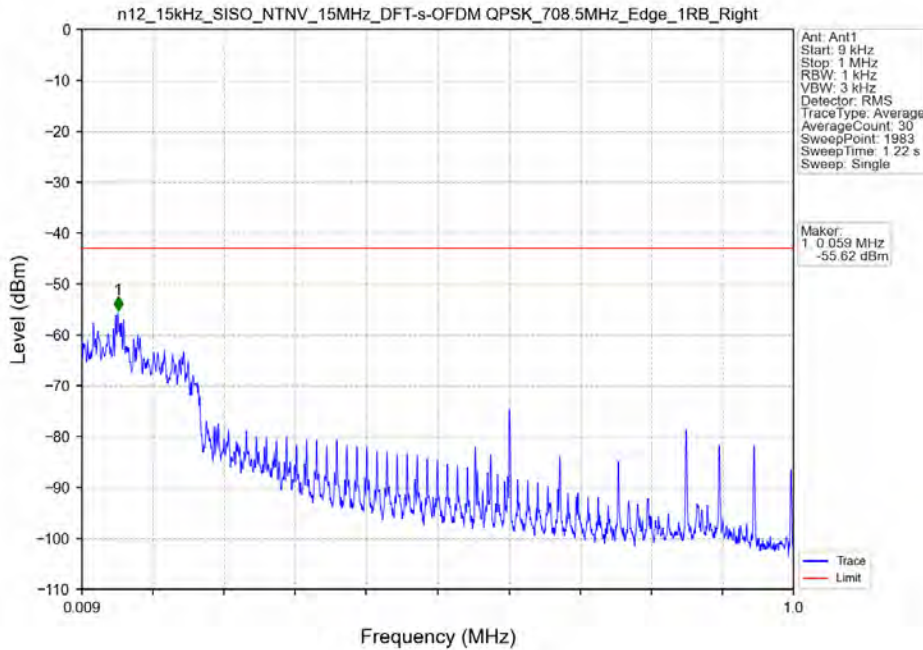
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n12_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_708.5MHz_Edge_1RB_Right



n12_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_708.5MHz_Edge_1RB_Right



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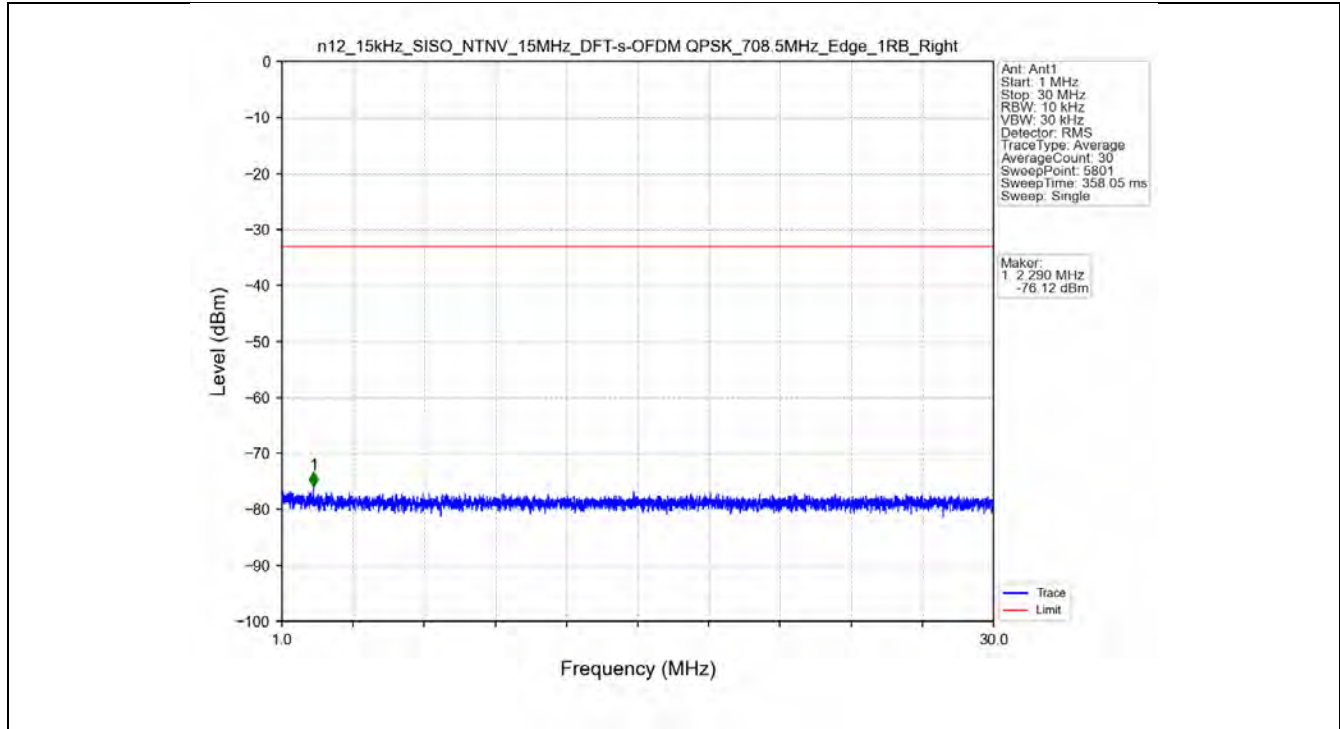


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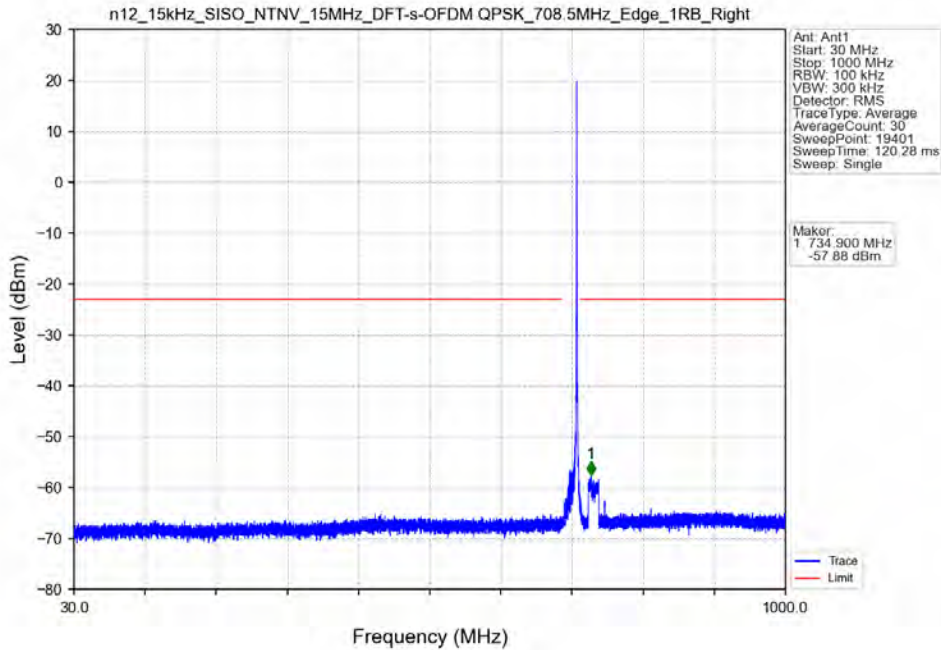
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n12_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_708.5MHz_Edge_1RB_Right



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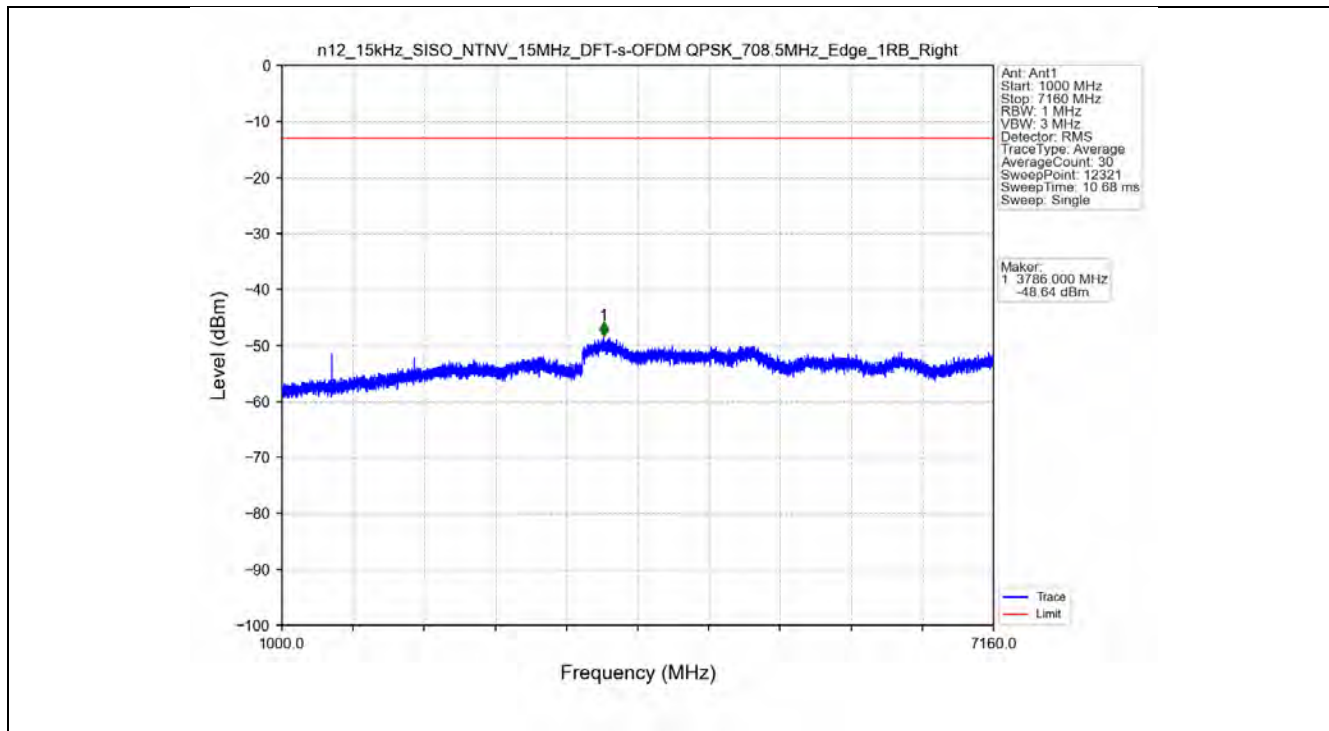
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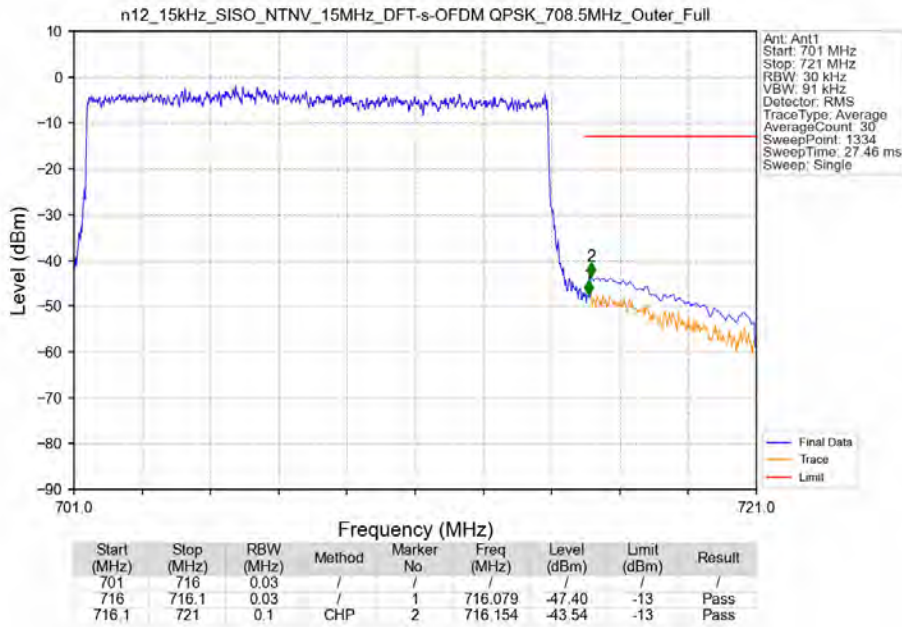
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n12_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM_QPSK_708.5MHz_Outer_Full



n12_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM_QPSK_708.5MHz_Inner_1RB_Right



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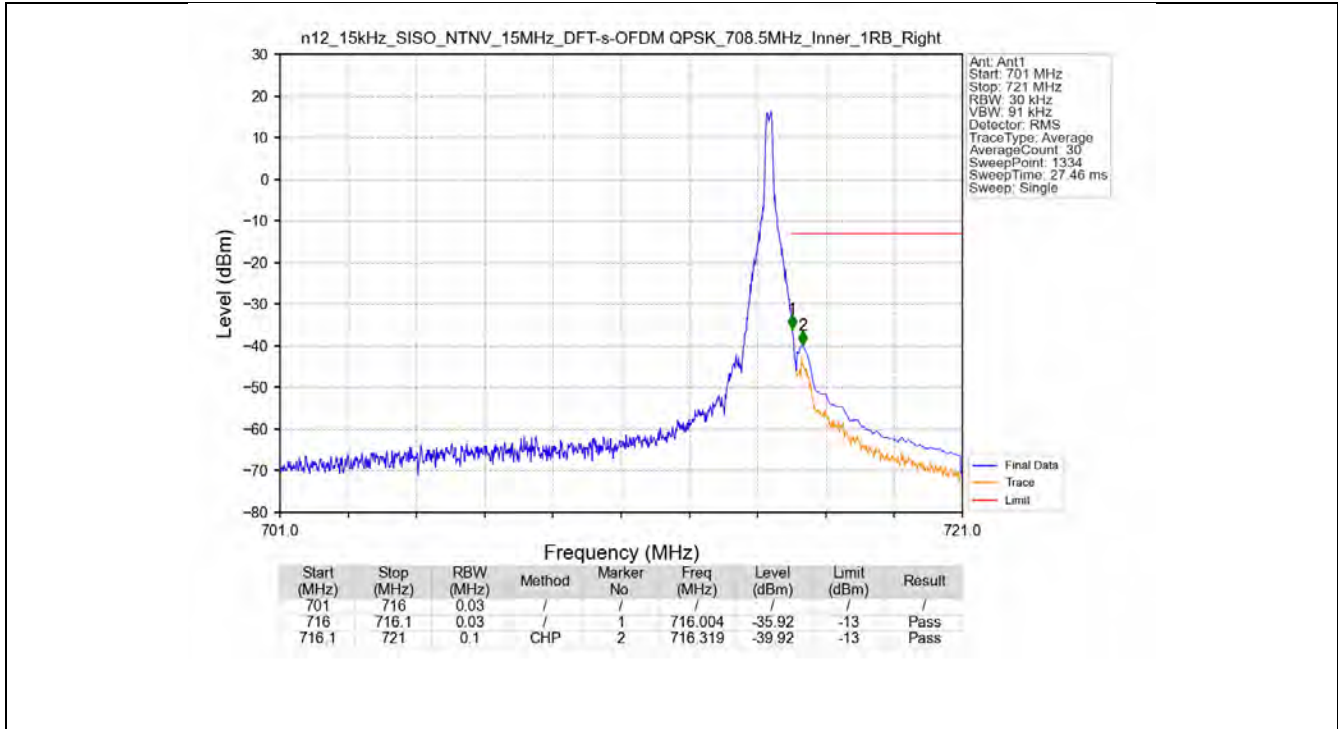


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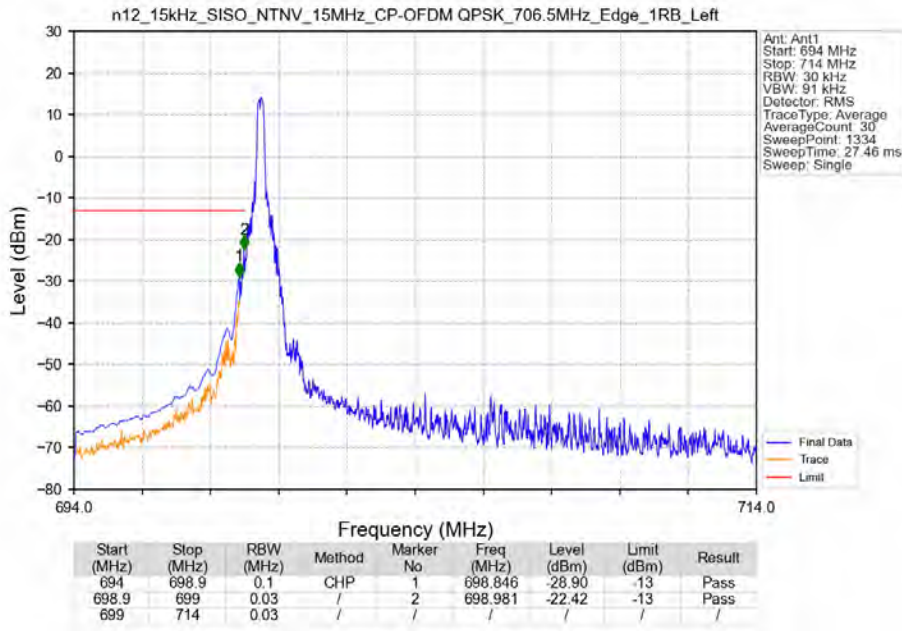
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n12_15kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_706.5MHz_Edge_1RB_Left



n12_15kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_706.5MHz_Edge_1RB_Left



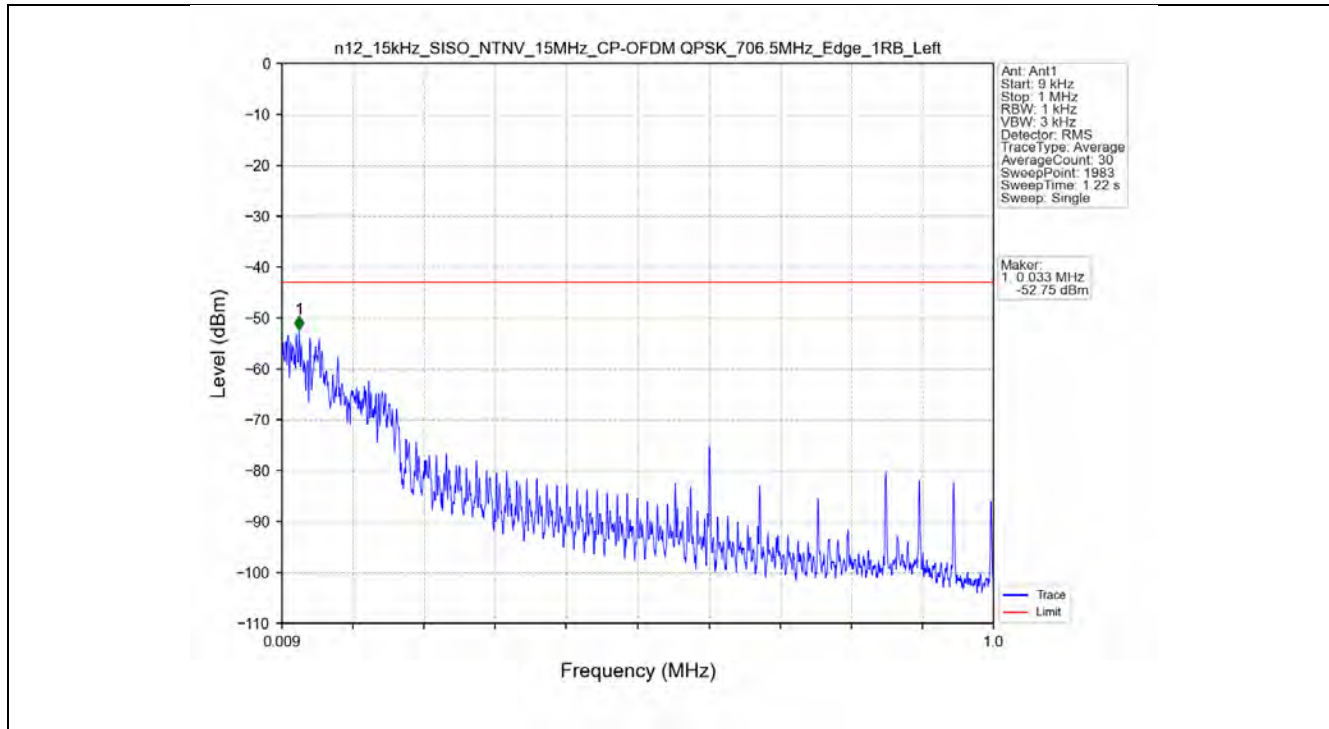
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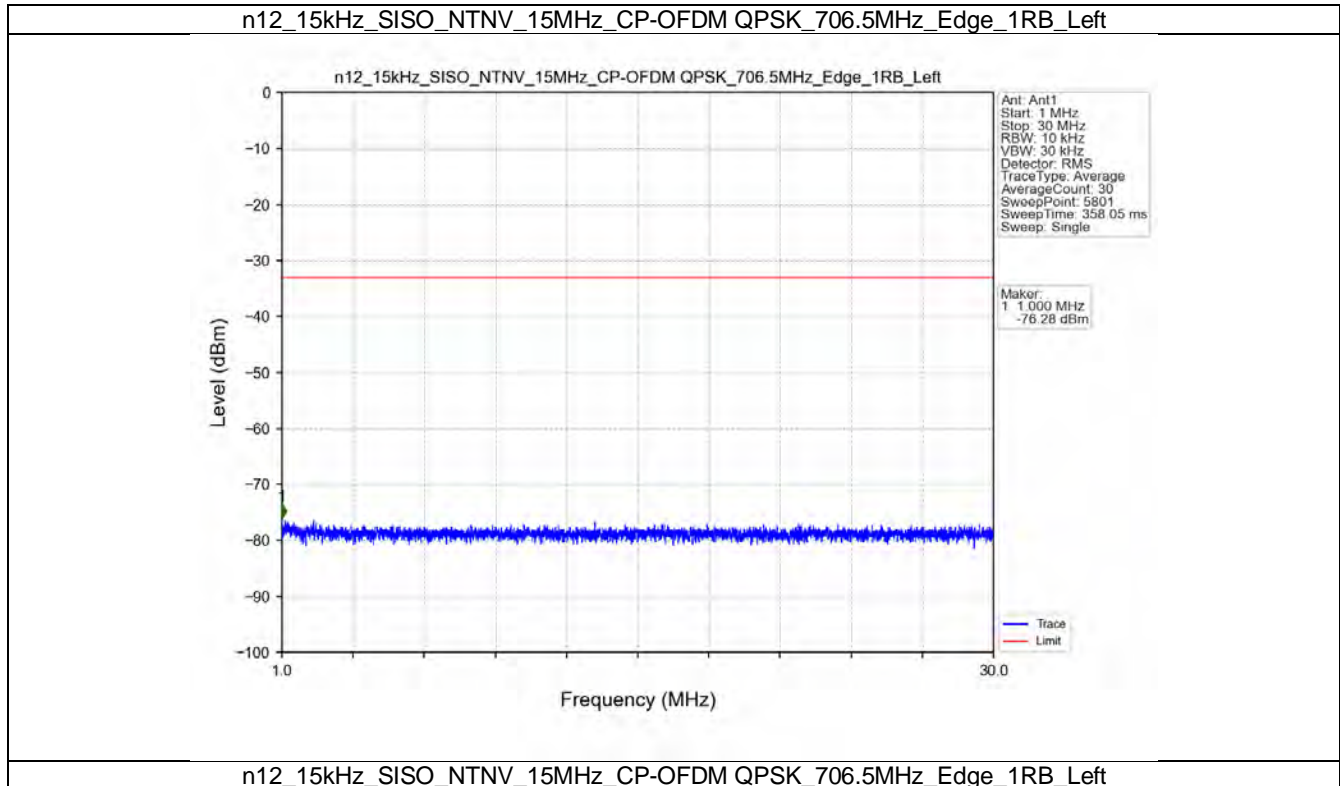


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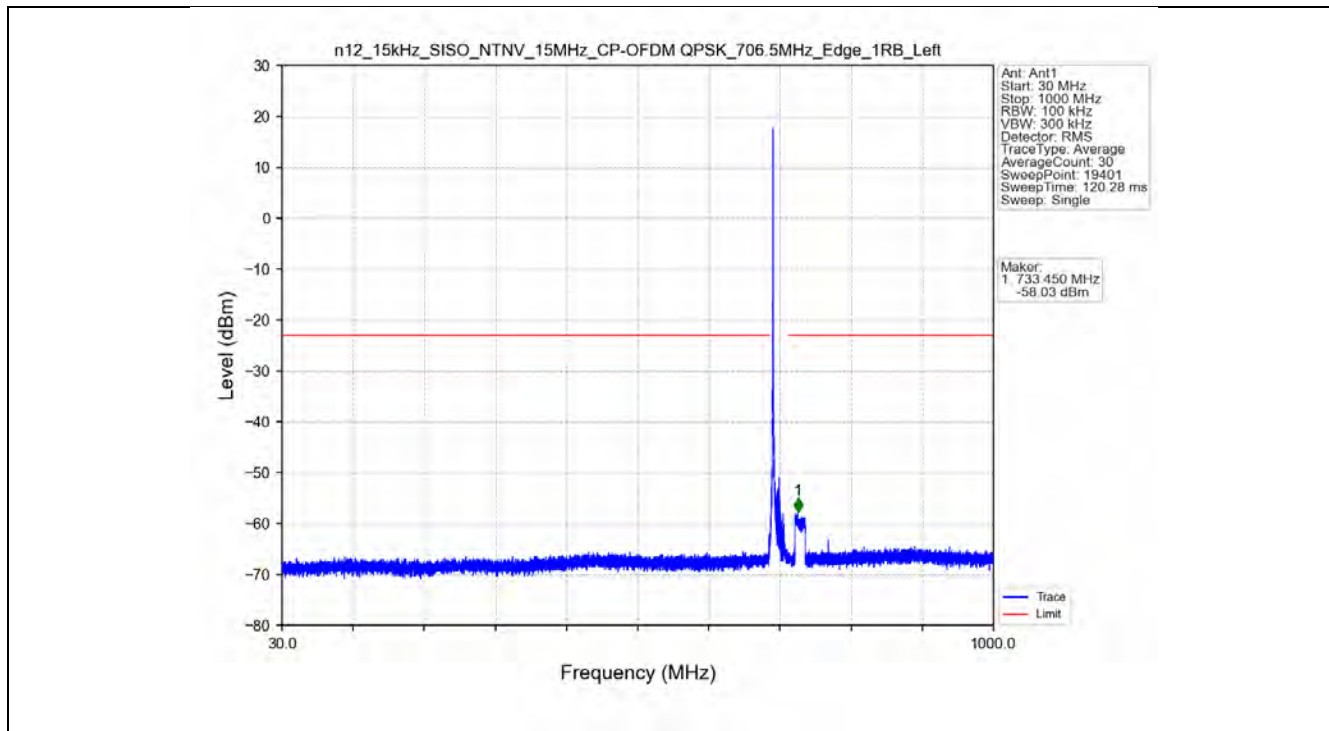
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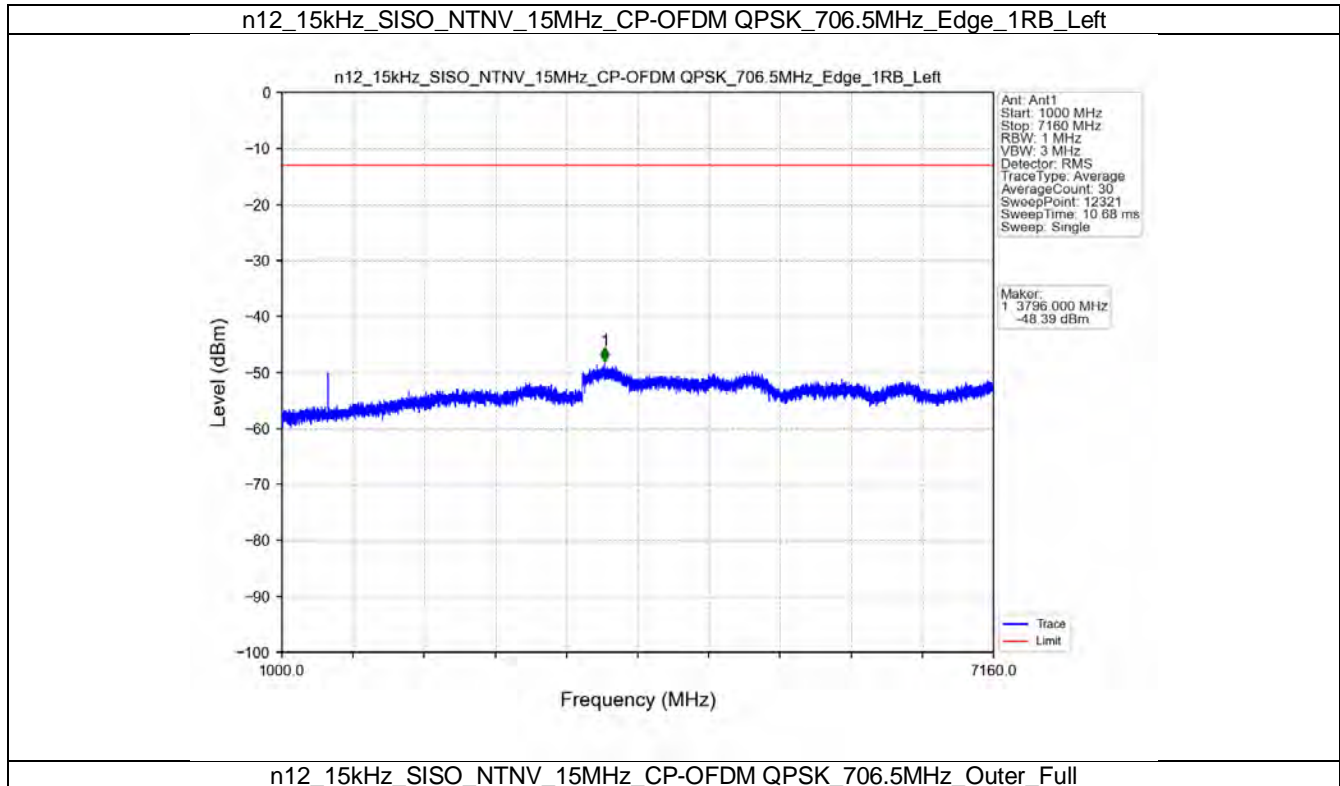


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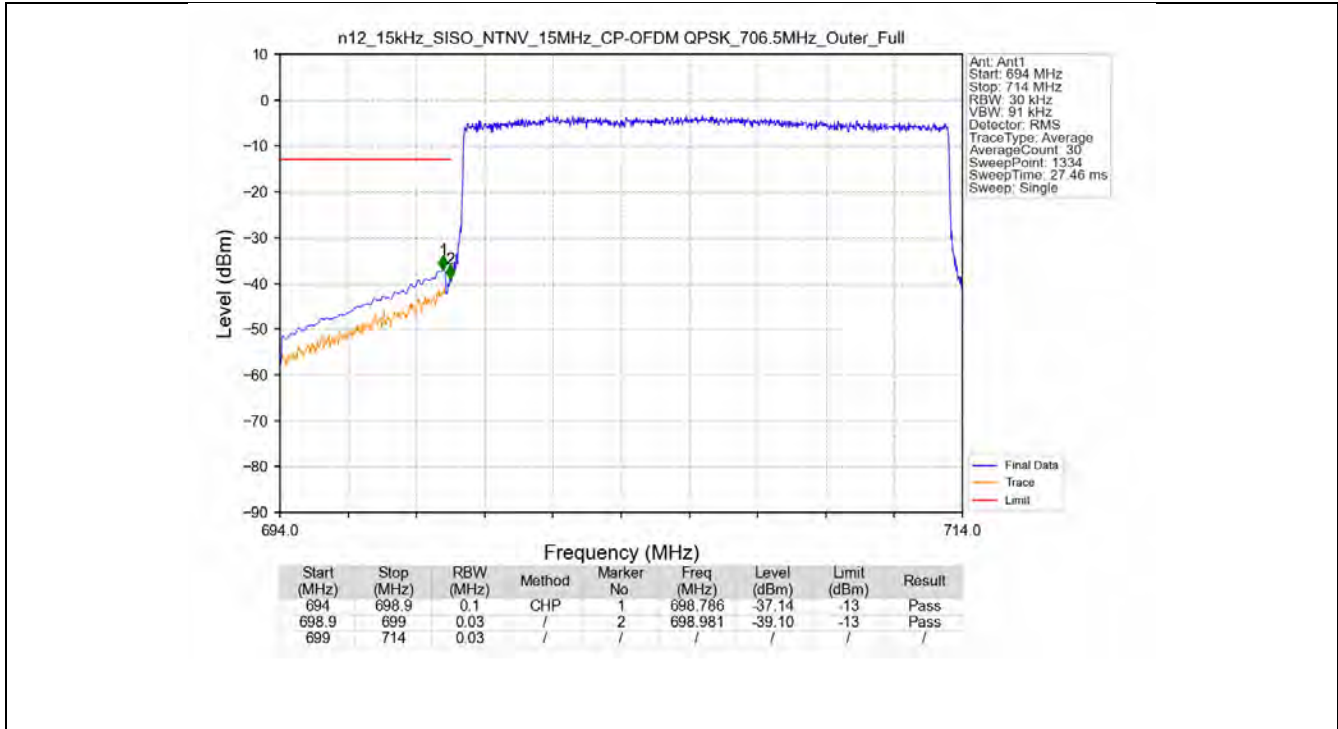


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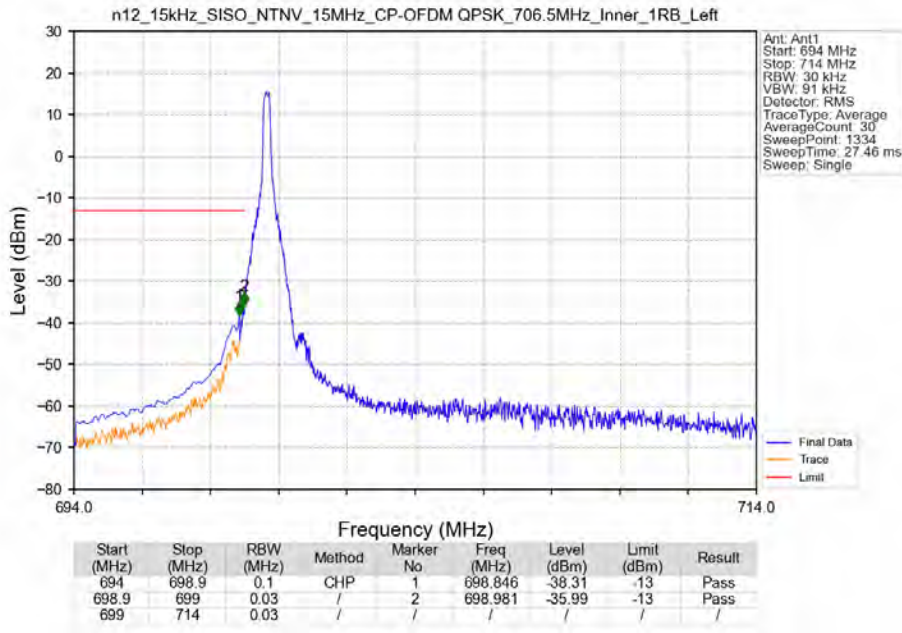
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n12_15kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_706.5MHz_Inner_1RB_Left



n12_15kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_707.5MHz_Edge_1RB_Left



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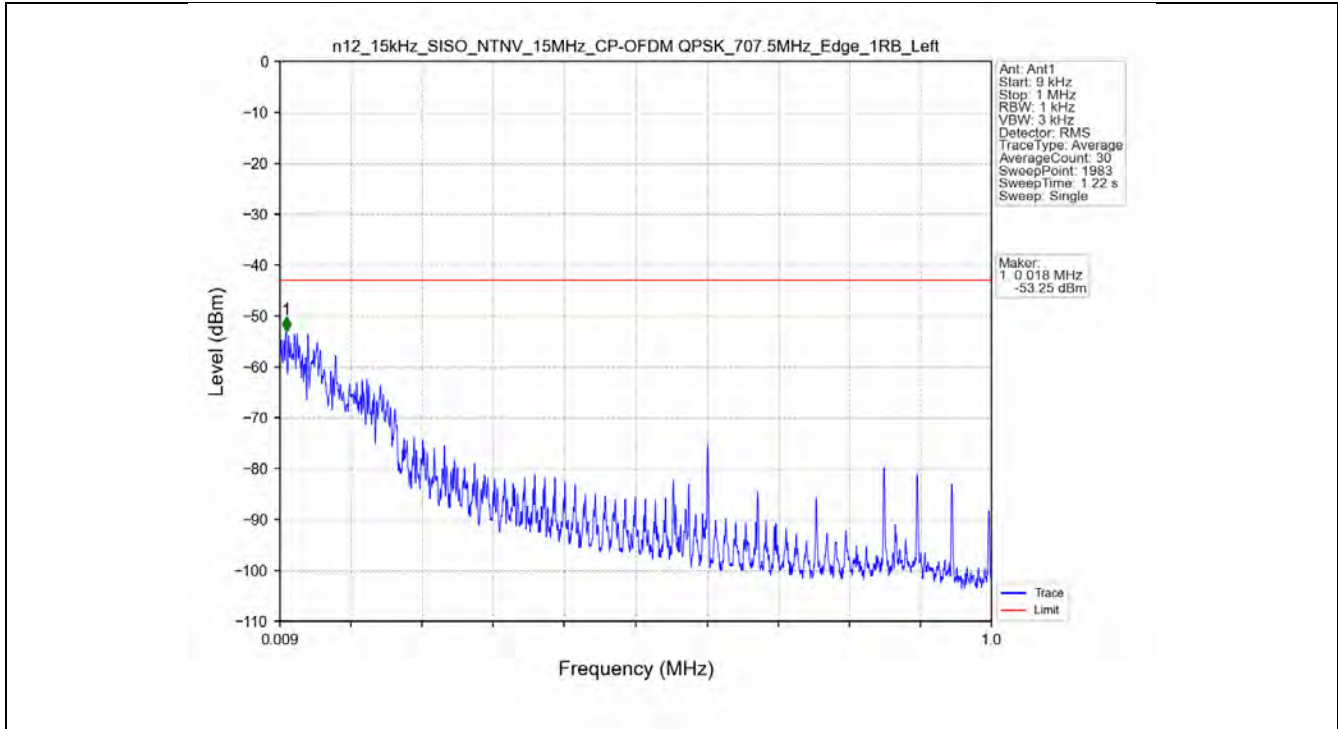


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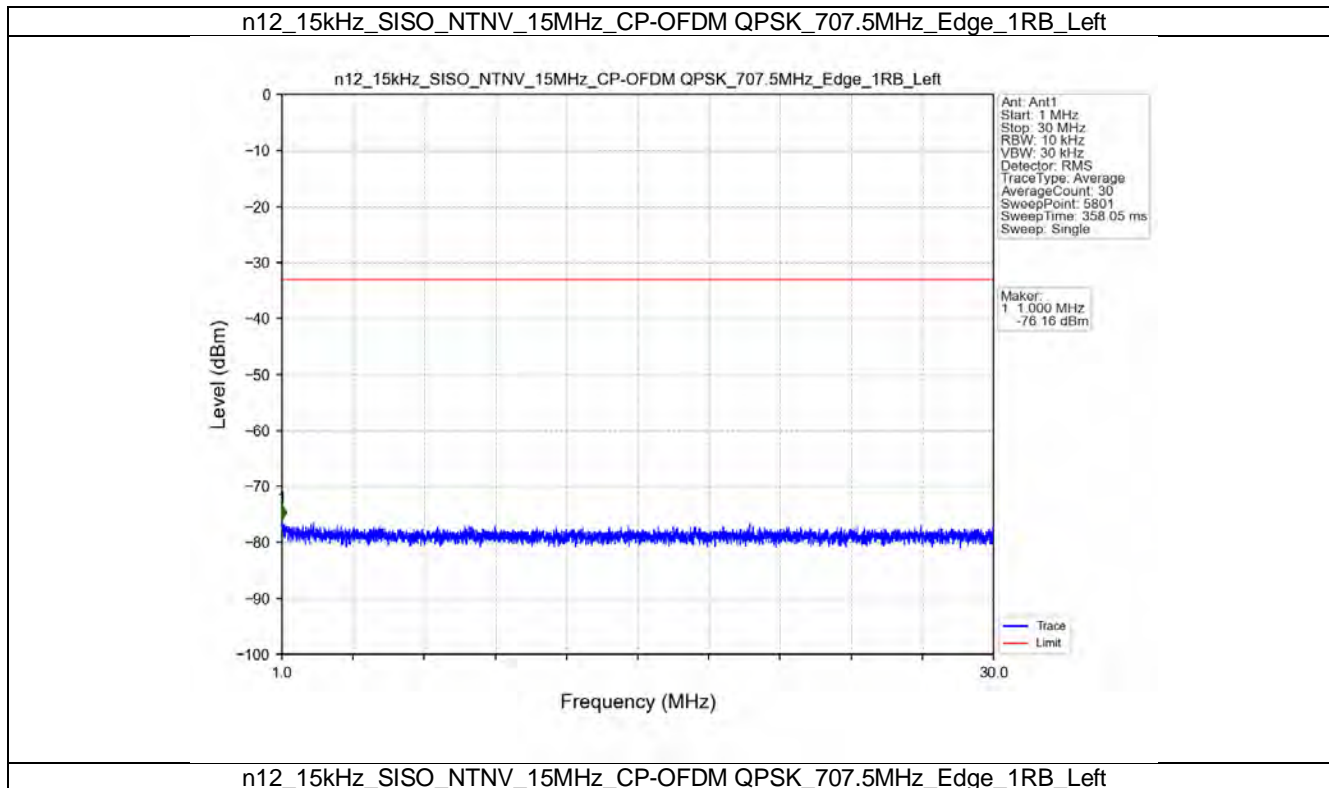
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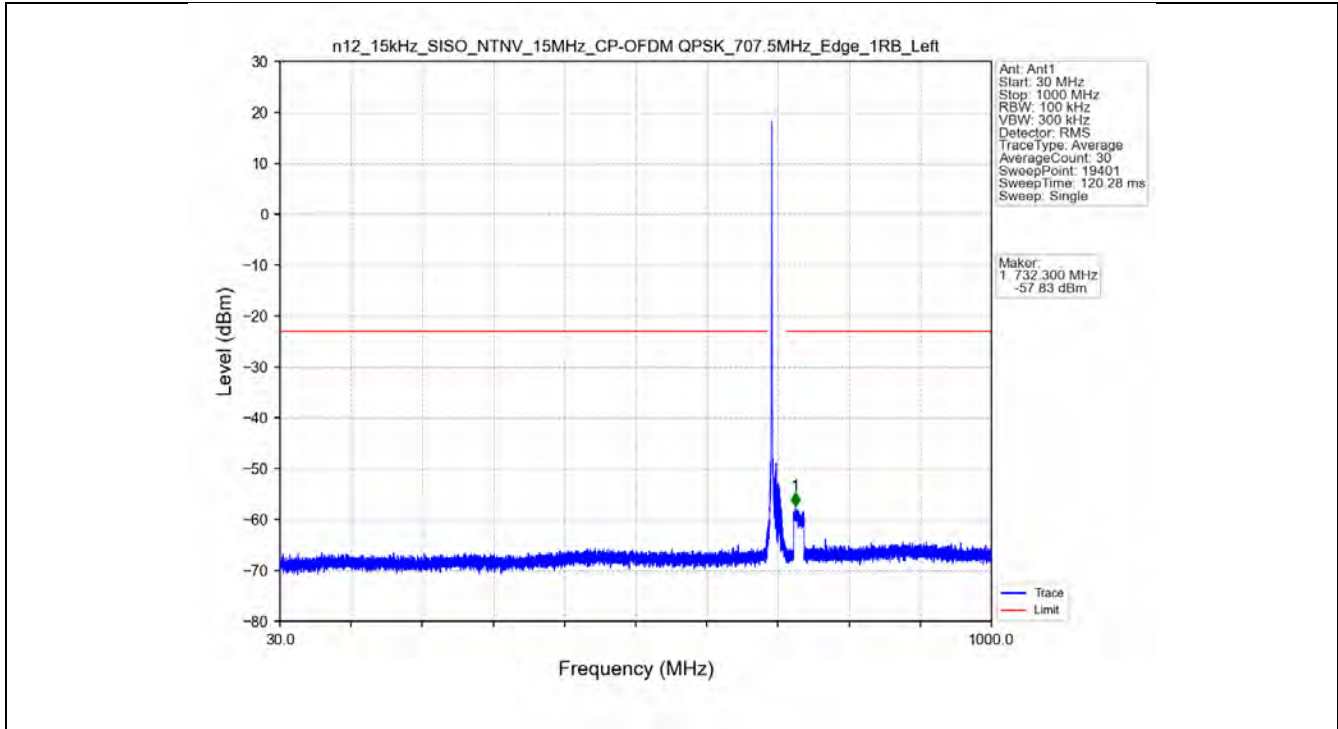


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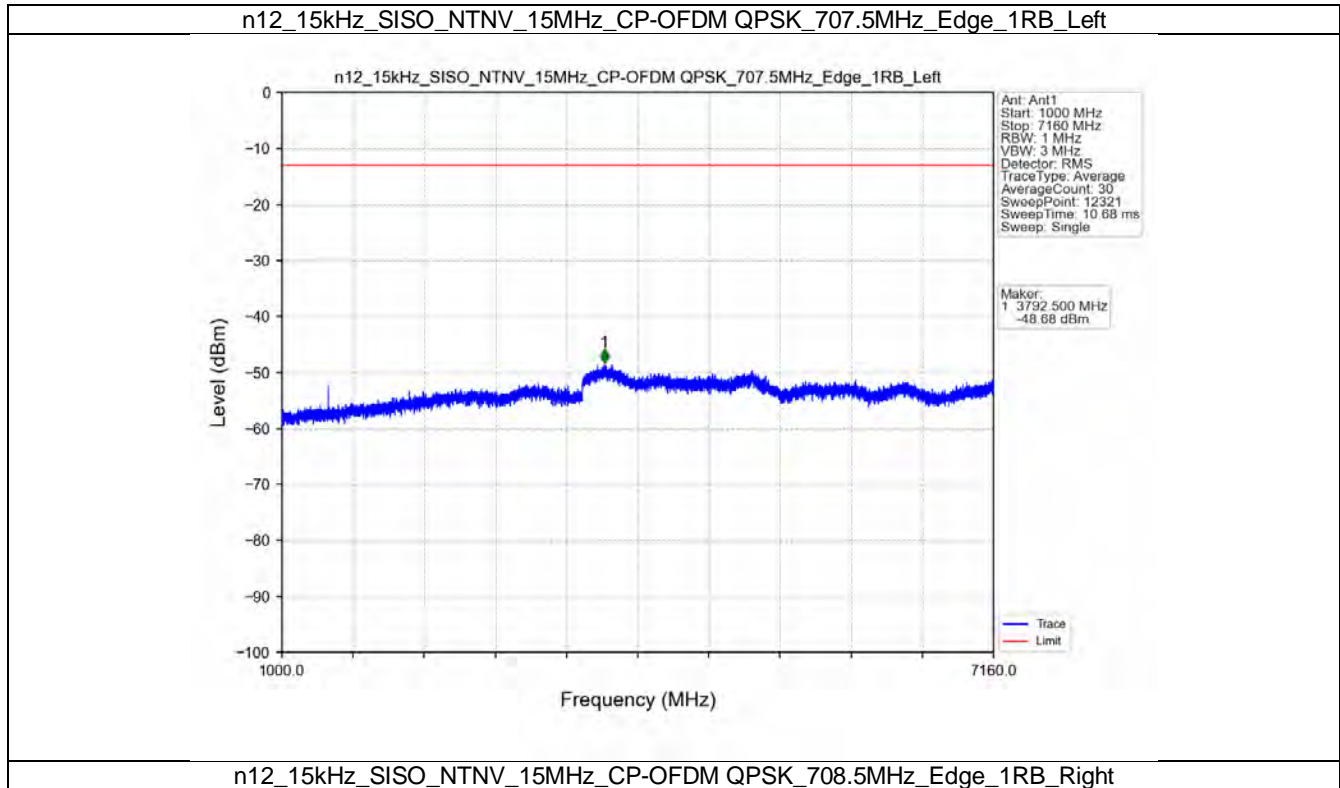


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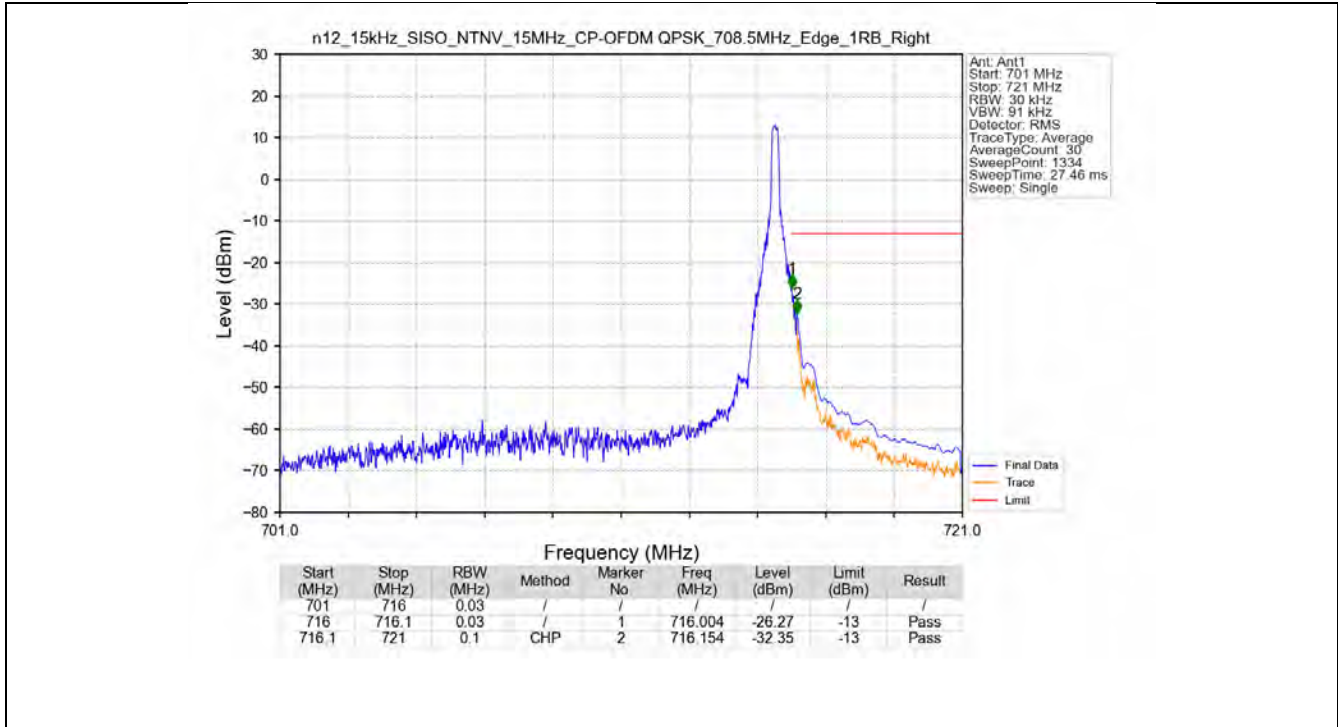


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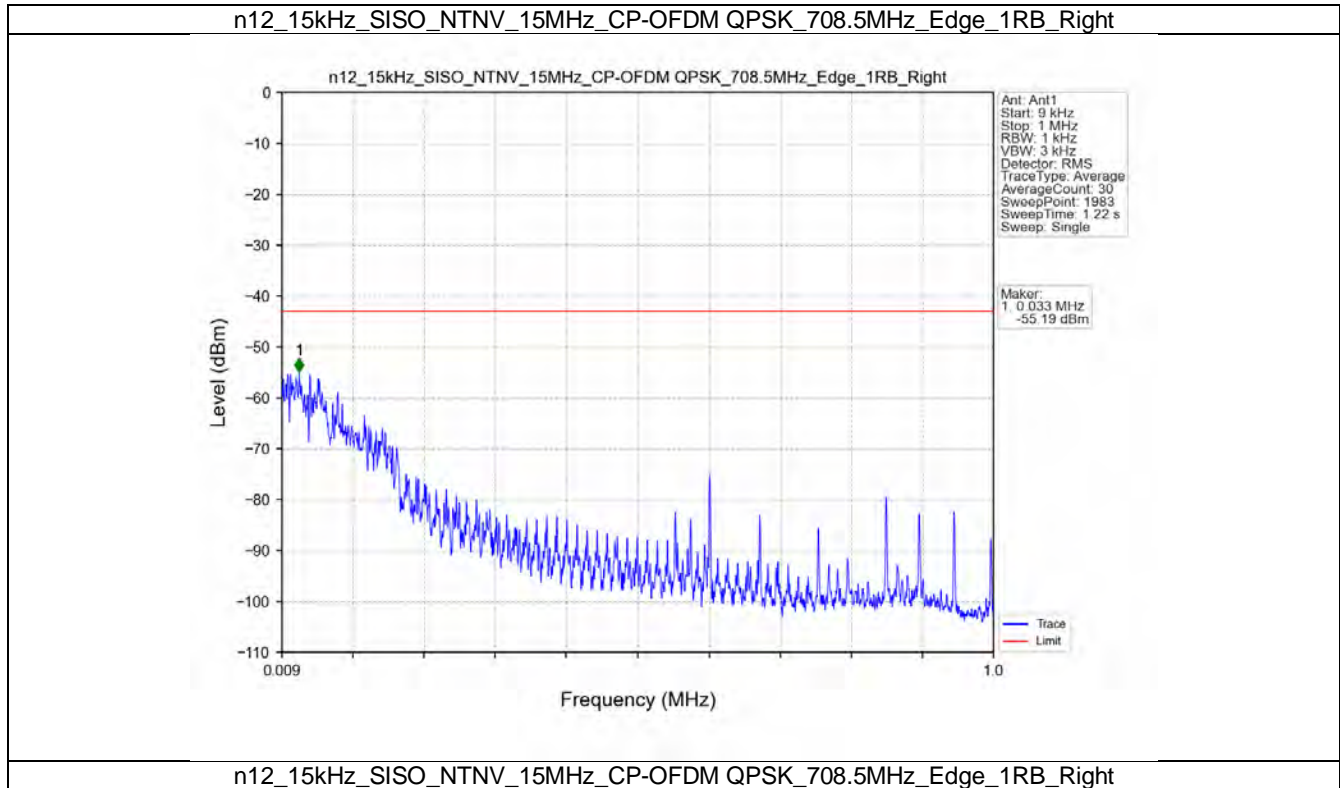


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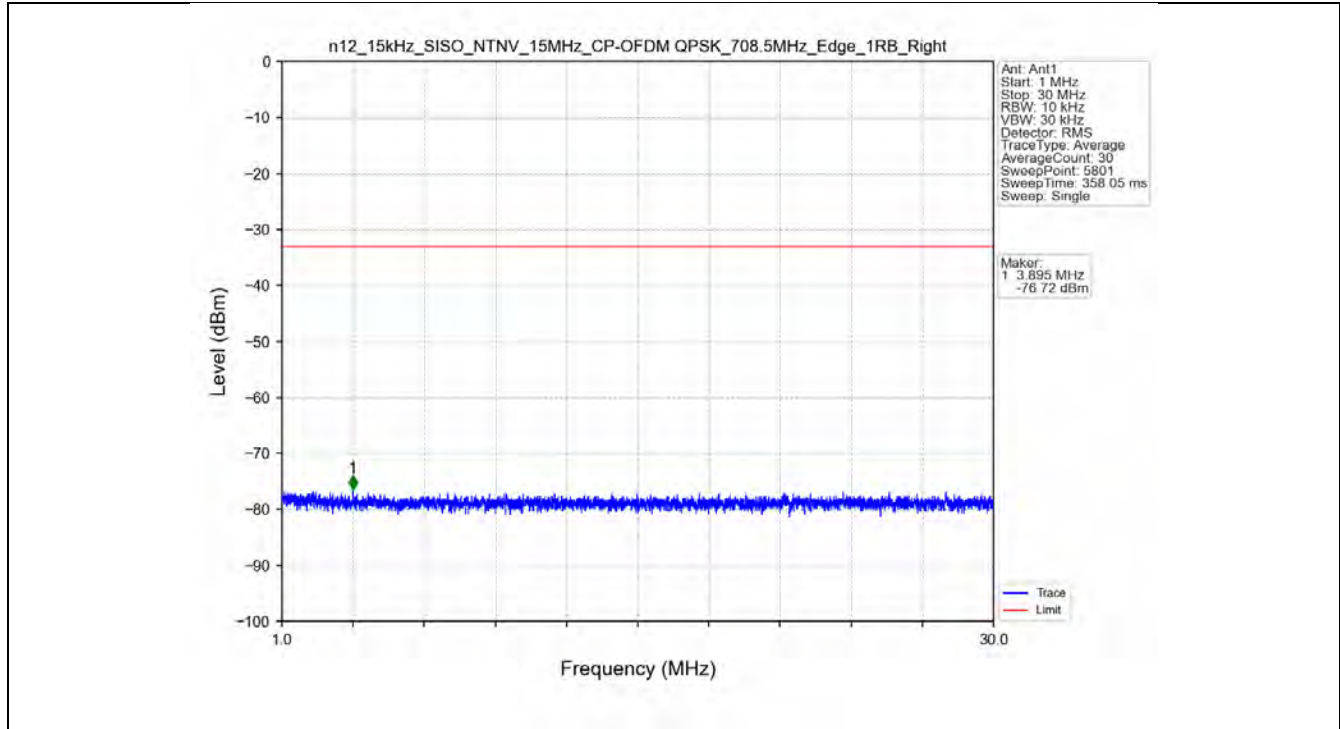


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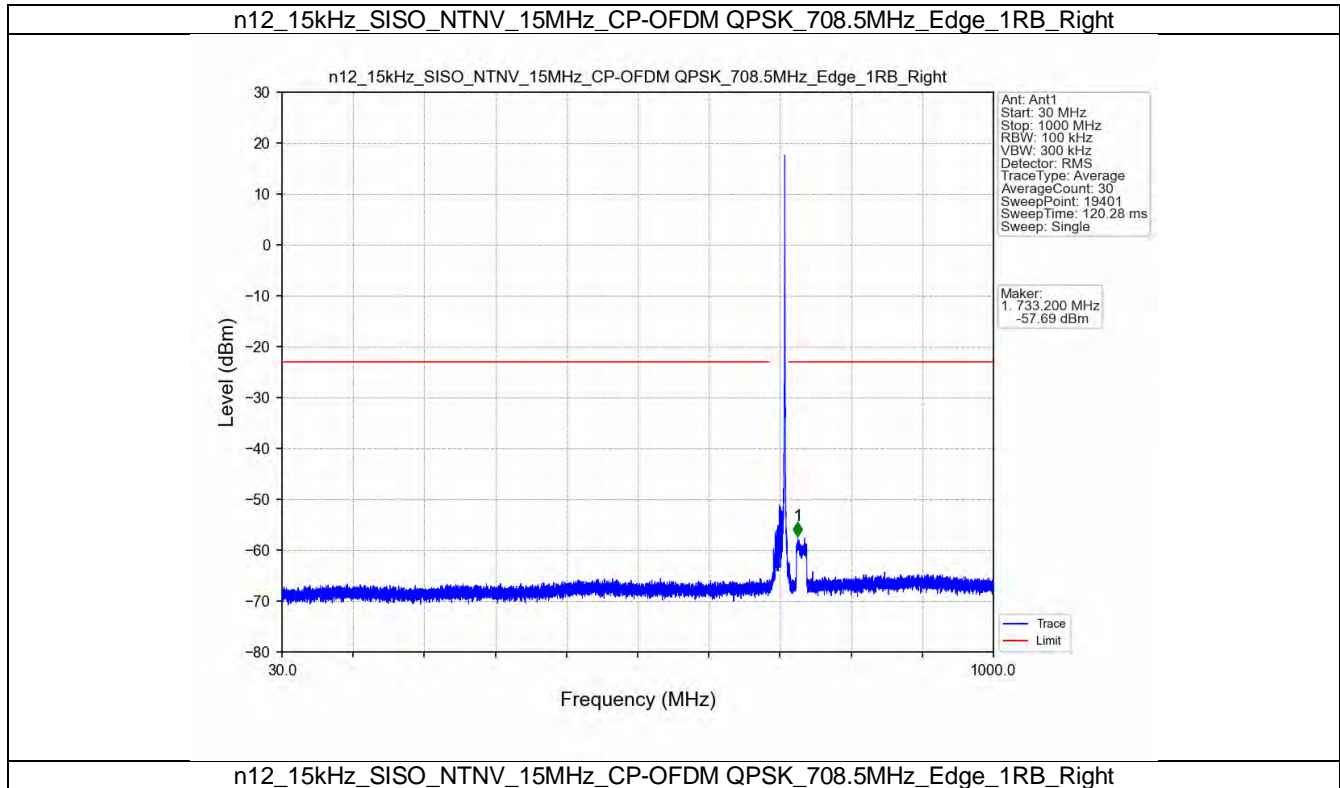


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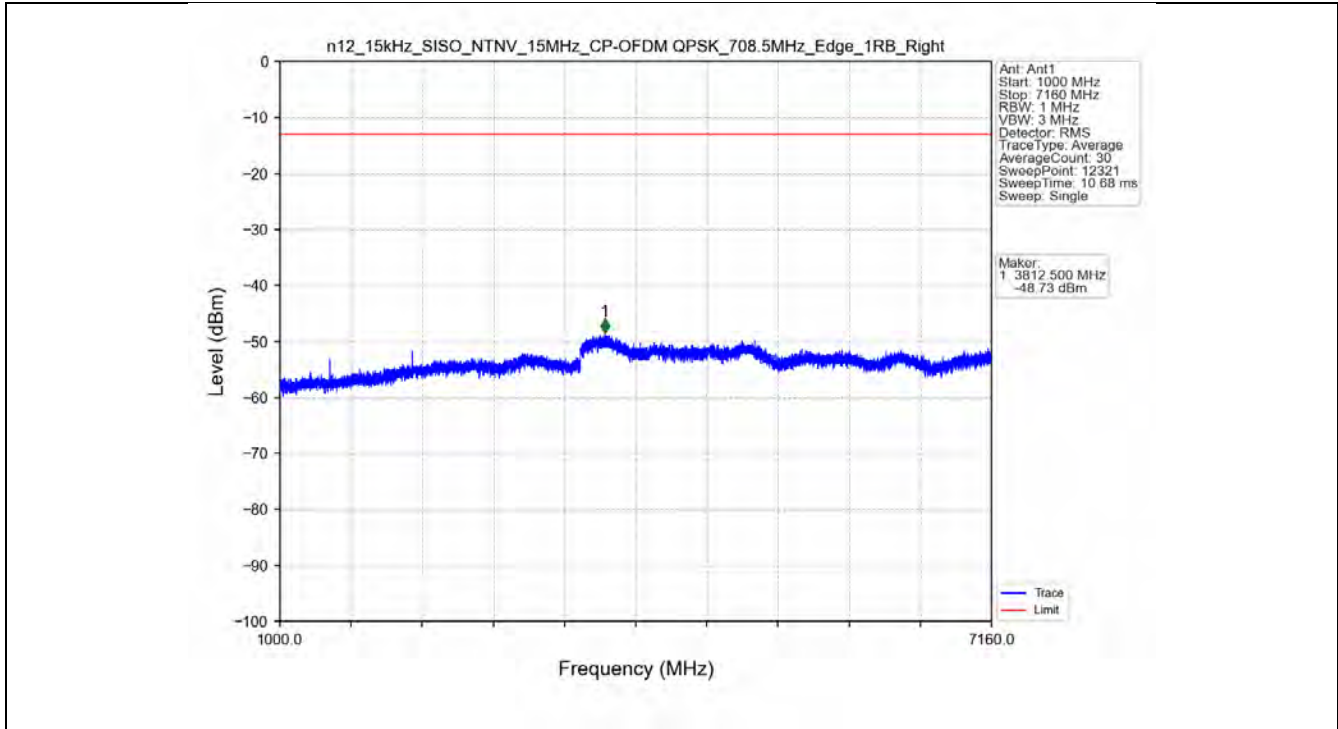


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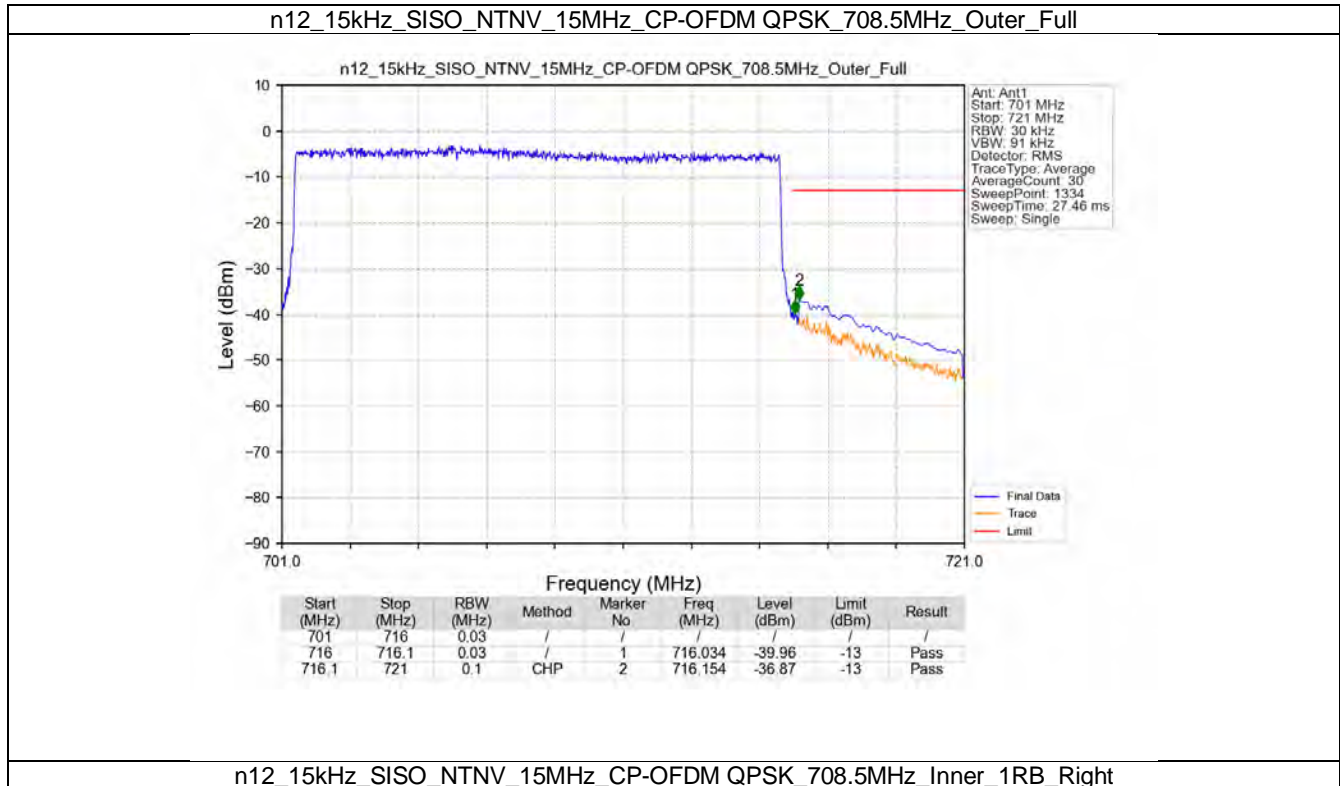


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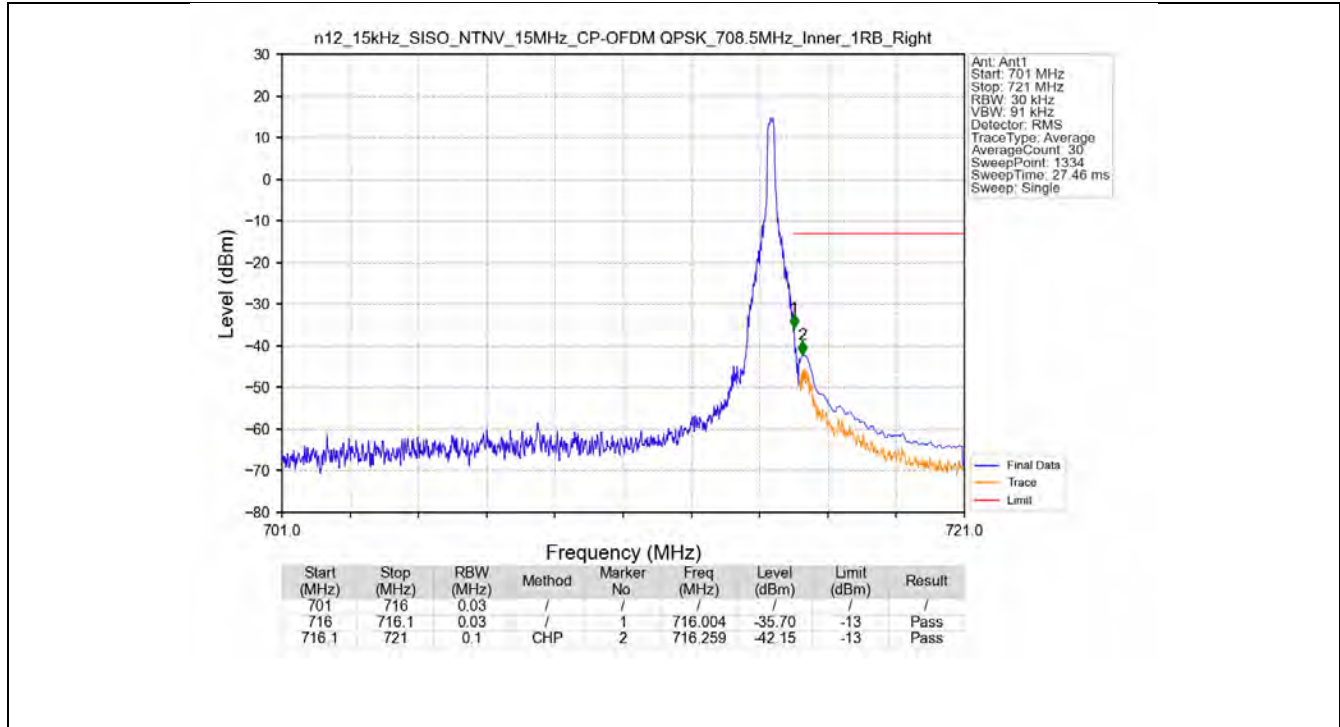


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6. Field Strength of Spurious Radiation

| NR Band 12-Low channel, Modulation: QPSK, Bandwidth: 15MHz, 1RB#0 | | | | | | | | |
|---|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 1399.5 | -65.89 | -13 | -52.89 | -66.96 | 1.64 | 2.71 | Horizontal | Pass |
| 2099.25 | -61.69 | -13 | -48.69 | -63.96 | 2.35 | 4.62 | Horizontal | Pass |
| 2799 | -58.68 | -13 | -45.68 | -61.835 | 2.66 | 5.82 | Horizontal | Pass |
| 1399.5 | -62.81 | -13 | -49.81 | -63.88 | 1.64 | 2.71 | Vertical | Pass |
| 2099.25 | -61.48 | -13 | -48.48 | -63.75 | 2.35 | 4.62 | Vertical | Pass |
| 2799 | -59.75 | -13 | -46.75 | -62.905 | 2.66 | 5.82 | Vertical | Pass |

| NR Band 12-Middle channel, Modulation: QPSK, Bandwidth: 15MHz, 1RB#0 | | | | | | | | |
|--|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 1401.5 | -65.13 | -13 | -52.13 | -66.2 | 1.64 | 2.71 | Horizontal | Pass |
| 2102.25 | -62.01 | -13 | -49.01 | -64.28 | 2.35 | 4.62 | Horizontal | Pass |
| 2803 | -59.22 | -13 | -46.22 | -62.375 | 2.66 | 5.82 | Horizontal | Pass |
| 1401.5 | -63.09 | -13 | -50.09 | -64.16 | 1.64 | 2.71 | Vertical | Pass |
| 2102.25 | -62.63 | -13 | -49.63 | -64.9 | 2.35 | 4.62 | Vertical | Pass |
| 2803 | -57.58 | -13 | -44.58 | -60.735 | 2.66 | 5.82 | Vertical | Pass |

| NR Band 12-High channel, Modulation: QPSK, Bandwidth: 15MHz, 1RB#0 | | | | | | | | |
|--|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 1403.5 | -65.80 | -13 | -52.80 | -66.87 | 1.64 | 2.71 | Horizontal | Pass |
| 2105.25 | -61.67 | -13 | -48.67 | -63.94 | 2.35 | 4.62 | Horizontal | Pass |
| 2807 | -58.18 | -13 | -45.18 | -61.335 | 2.66 | 5.82 | Horizontal | Pass |
| 1403.5 | -62.30 | -13 | -49.30 | -63.37 | 1.64 | 2.71 | Vertical | Pass |
| 2105.25 | -62.61 | -13 | -49.61 | -64.88 | 2.35 | 4.62 | Vertical | Pass |
| 2807 | -58.19 | -13 | -45.19 | -61.345 | 2.66 | 5.82 | Vertical | Pass |

---End of Attachment---



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