



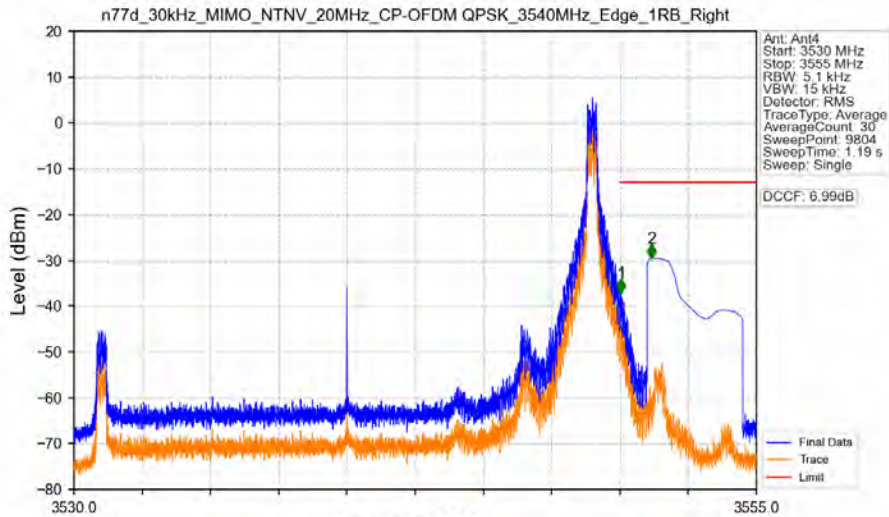
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n77d\_30kHz\_MIMO\_NTNV\_20MHz\_CP-OFDM\_QPSK\_3540MHz\_Edge\_1RB\_Right



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 3530        | 3550       | 0.0051    | /      | /         | /          | /           | /           | /      |
| 3550        | 3551       | 0.0051    | /      | 1         | 3550.040   | -37.09      | -13         | Pass   |
| 3551        | 3555       | 1         | CHP    | 2         | 3551.167   | -29.52      | -13         | Pass   |

n77d\_30kHz\_MIMO\_NTNV\_20MHz\_CP-OFDM\_QPSK\_3540MHz\_Edge\_1RB\_Right



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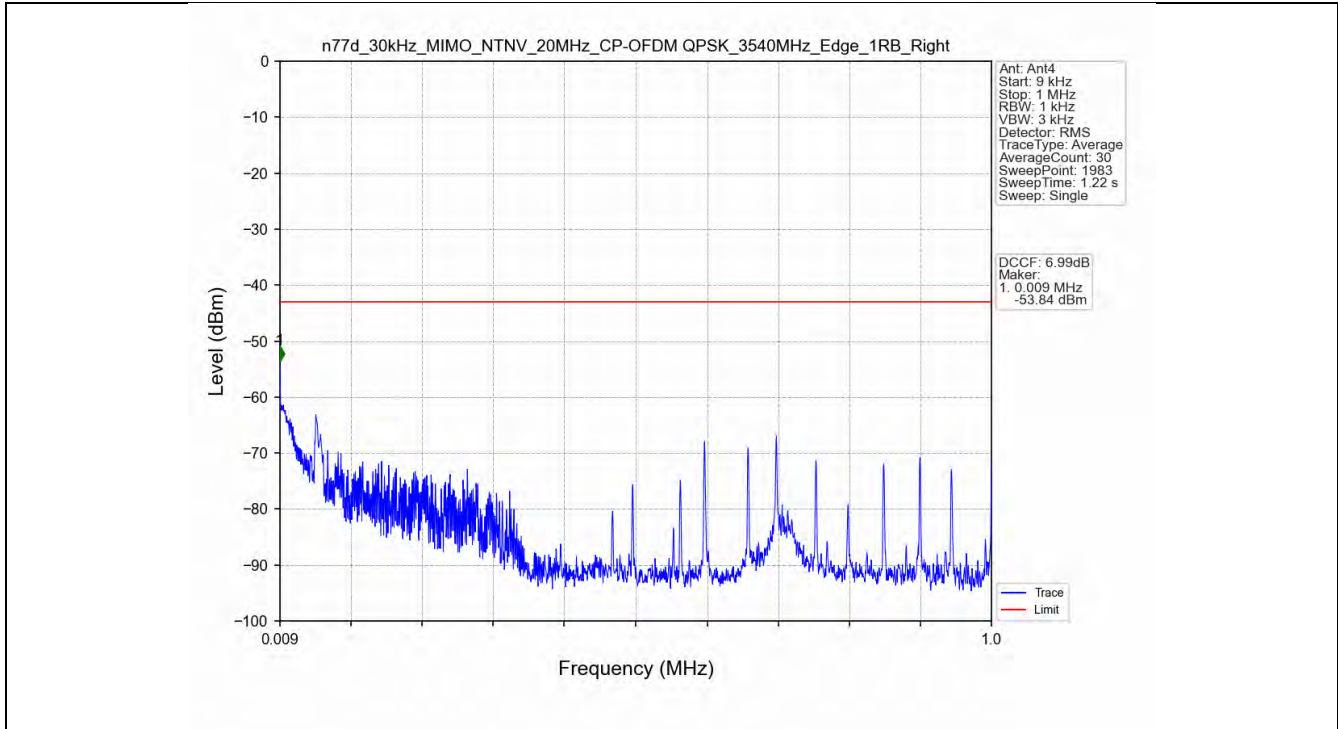


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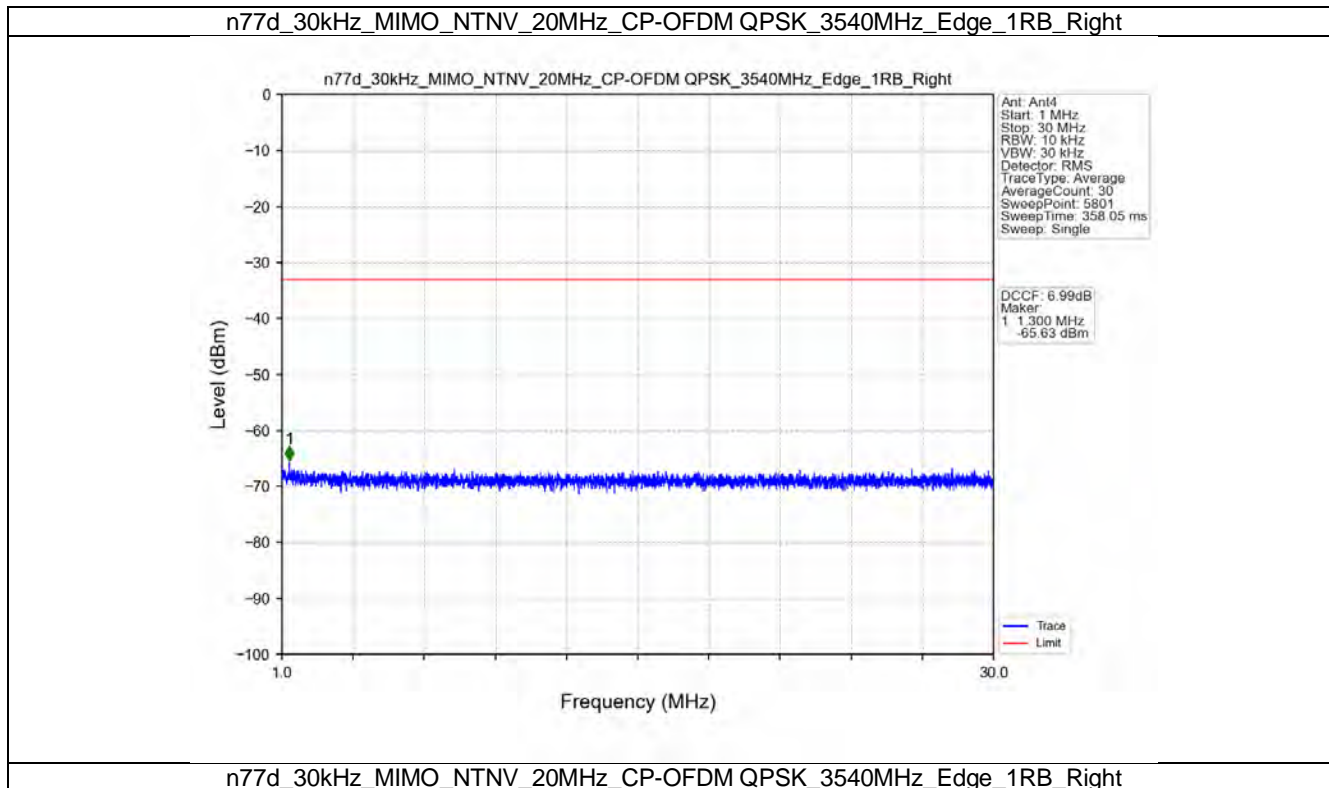
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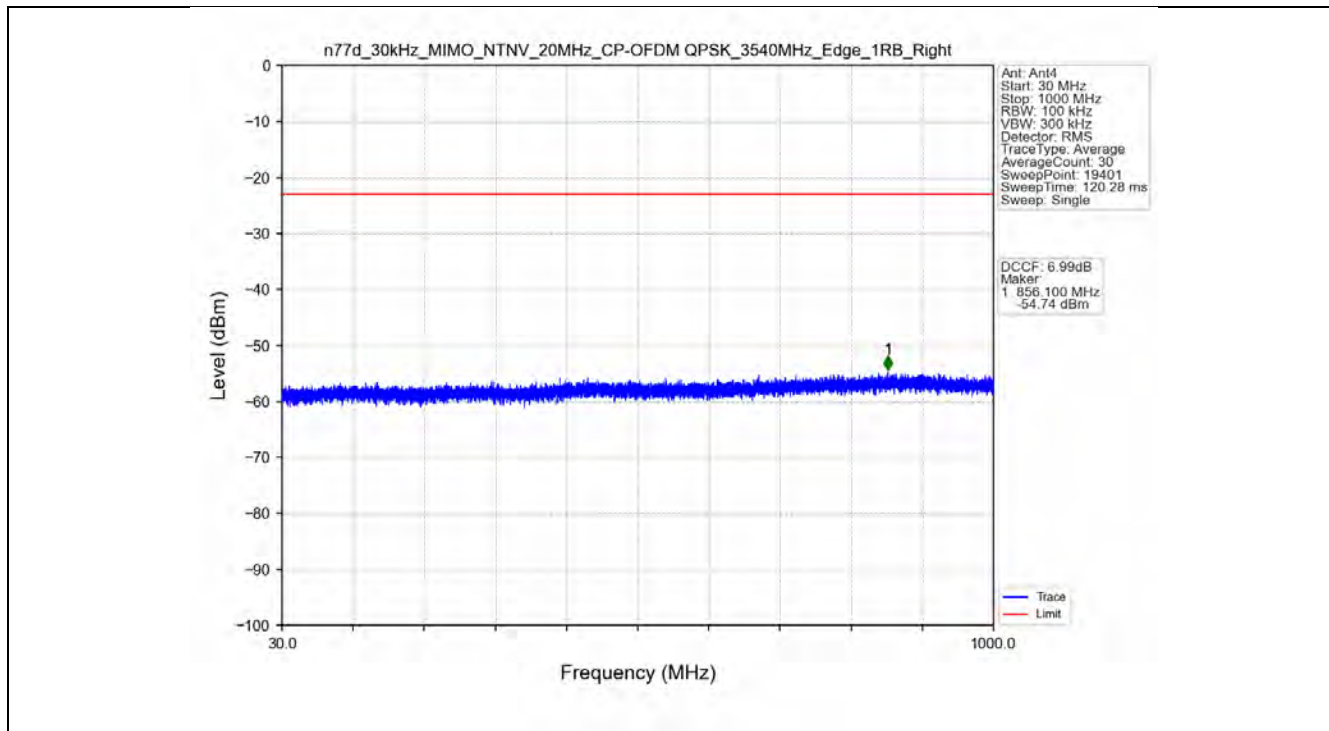
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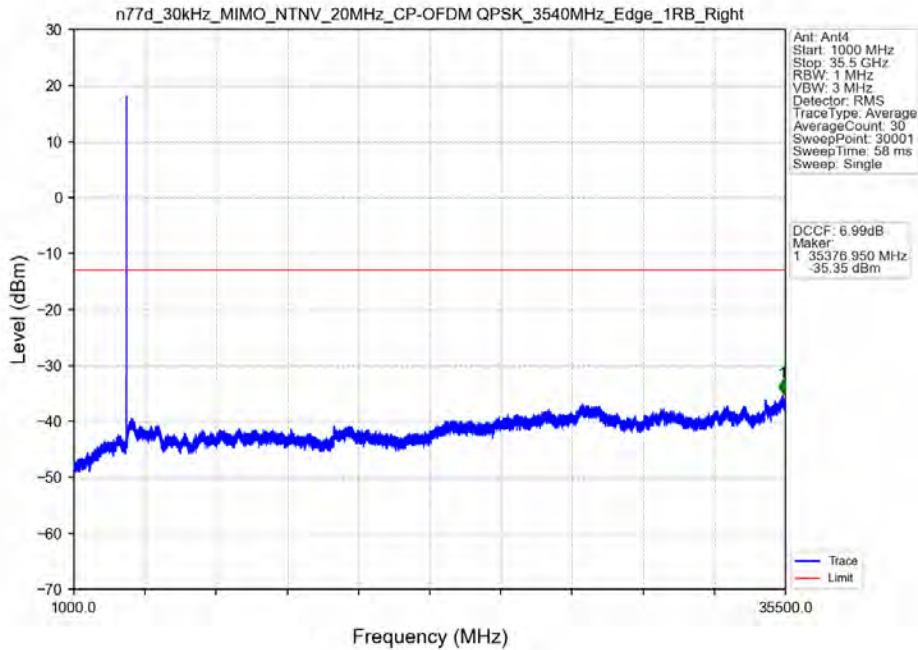
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n77d\_30kHz\_MIMO\_NTNV\_20MHz\_CP-OFDM QPSK\_3540MHz\_Edge\_1RB\_Right



n77d\_30kHz\_MIMO\_NTNV\_20MHz\_CP-OFDM QPSK\_3540MHz\_Edge\_1RB\_Right



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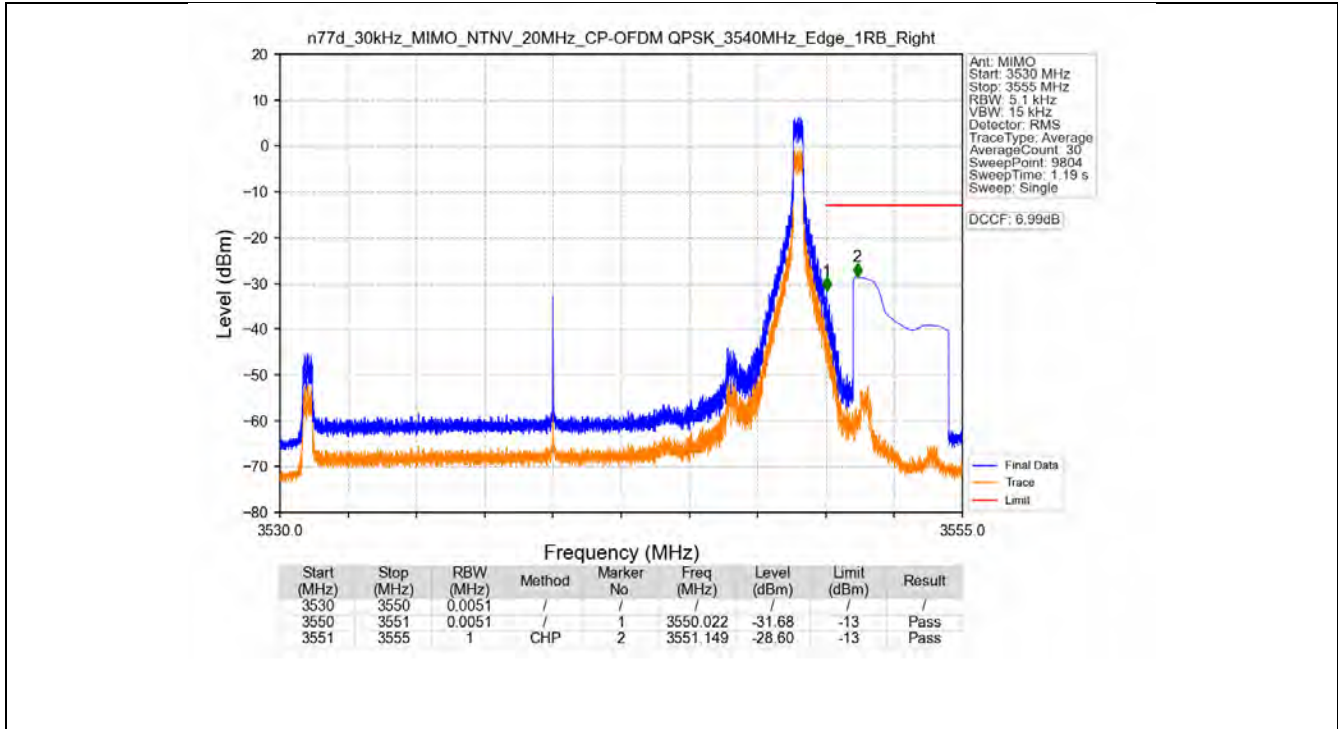


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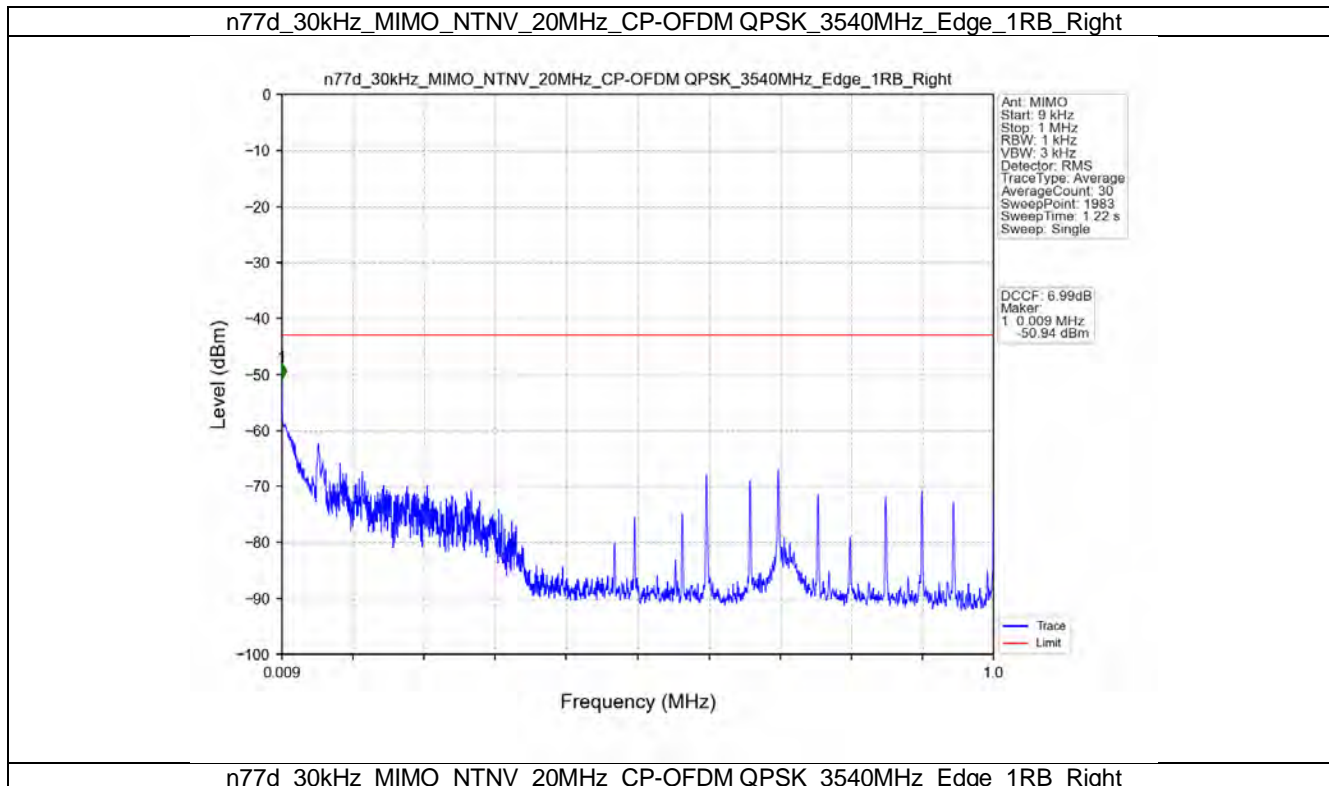
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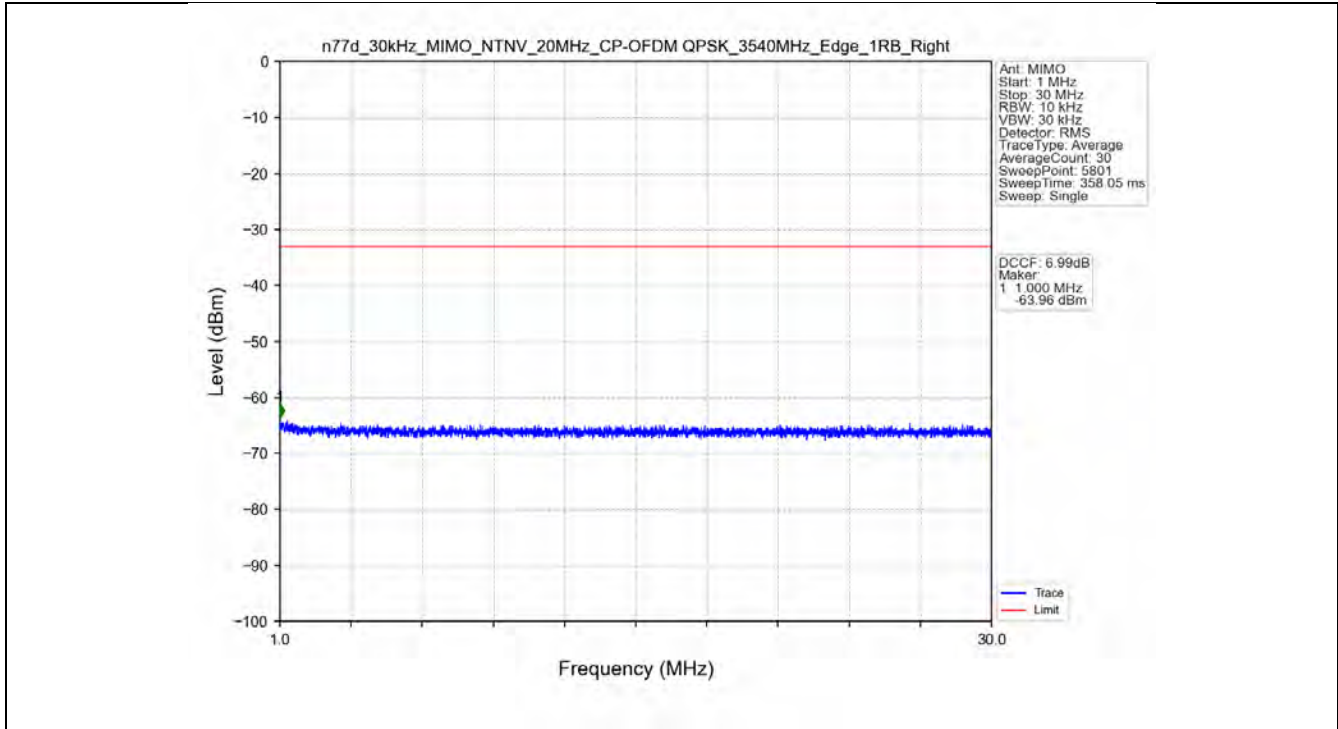


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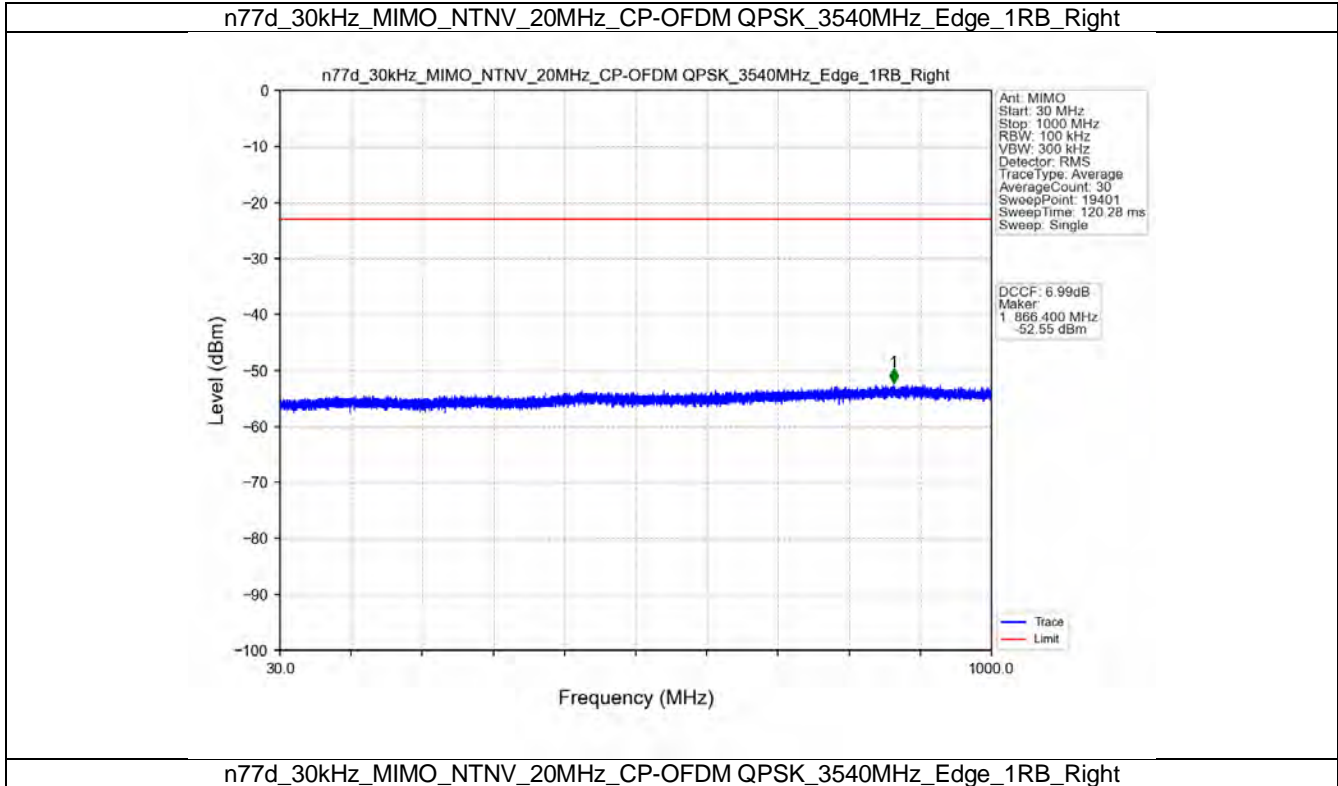


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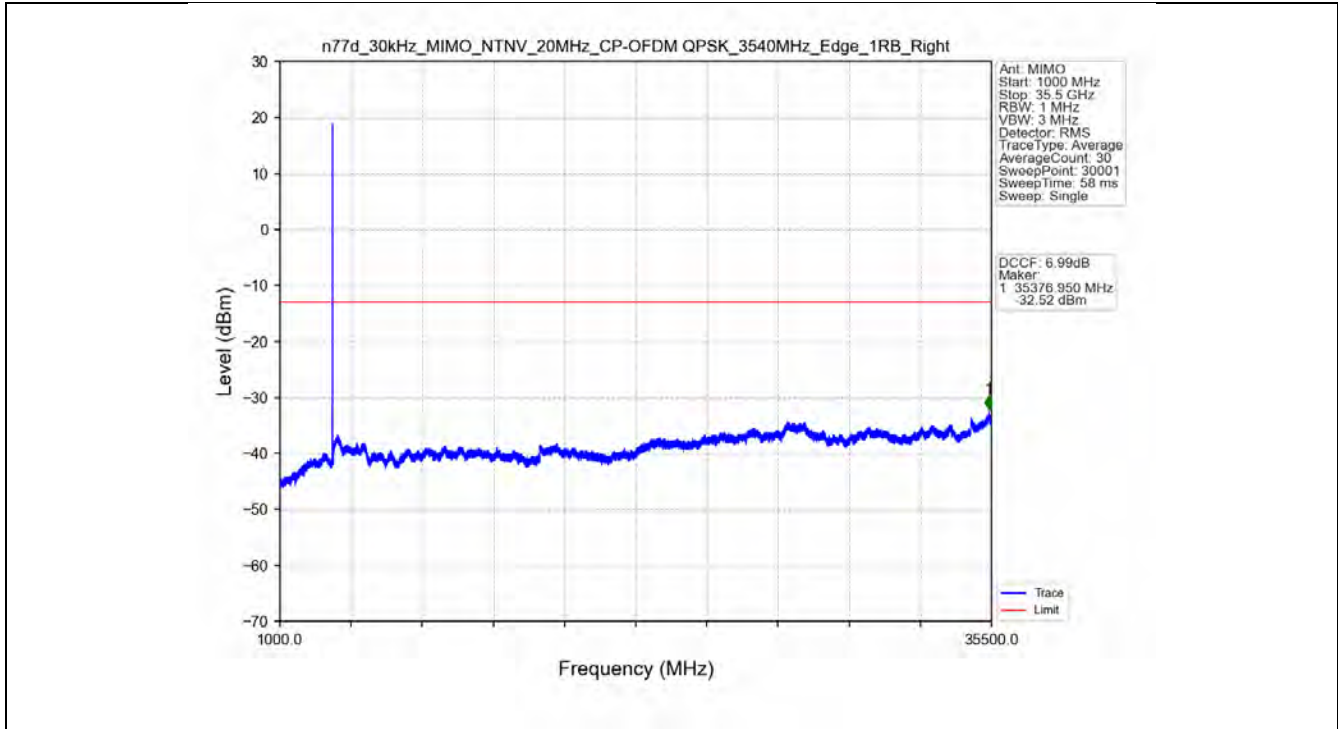


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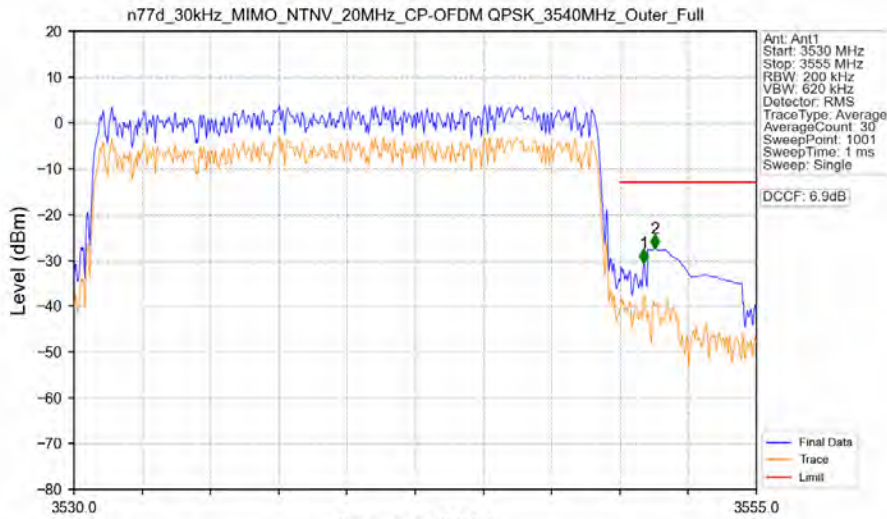
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n77d\_30kHz\_MIMO\_NTNV\_20MHz\_CP-OFDM\_QPSK\_3540MHz\_Outer\_Full



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 3530        | 3550       | 0.2       | /      | /         | /          | /           | /           | /      |
| 3550        | 3551       | 0.2       | /      | 1         | 3550.875   | -30.67      | -13         | Pass   |
| 3551        | 3555       | 1         | CHP    | 2         | 3551.275   | -27.50      | -13         | Pass   |

n77d\_30kHz\_MIMO\_NTNV\_20MHz\_CP-OFDM\_QPSK\_3540MHz\_Outer\_Full



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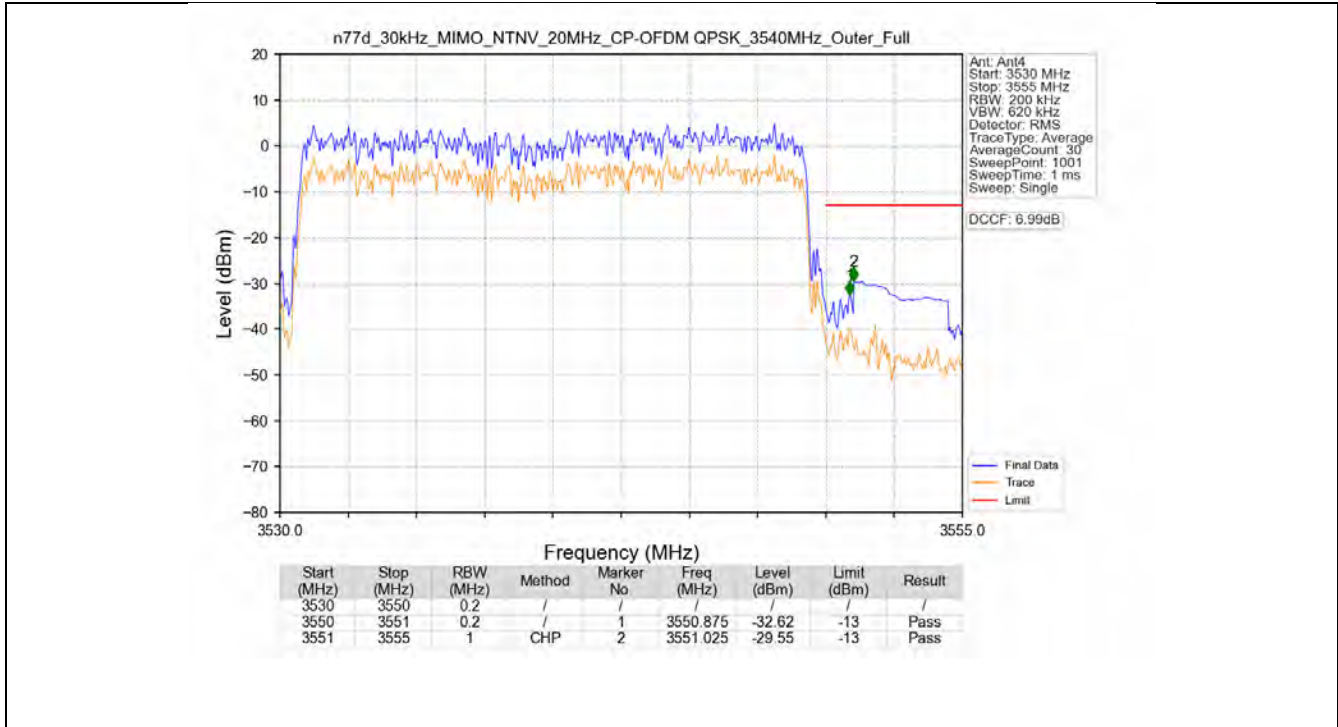


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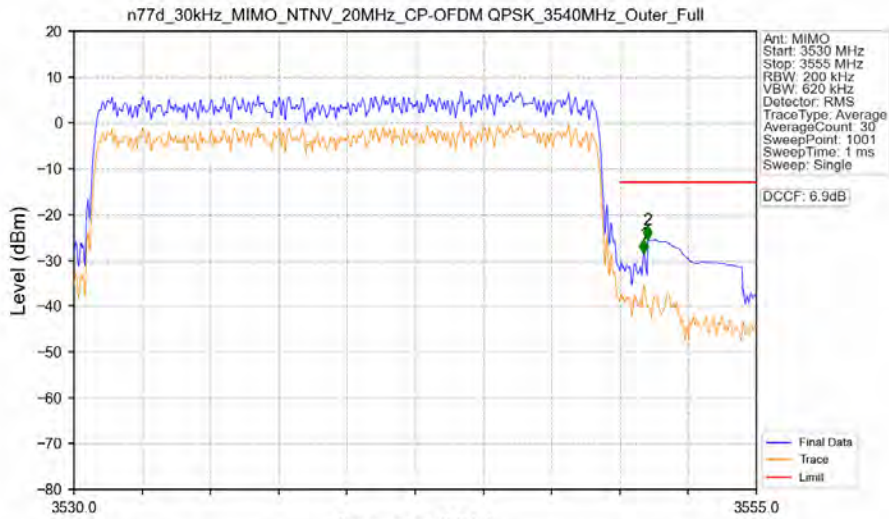
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n77d\_30kHz\_MIMO\_NTNV\_20MHz\_CP-OFDM QPSK\_3540MHz\_Outer\_Full



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 3530        | 3550       | 0.2       | /      | /         | /          | /           | /           | /      |
| 3550        | 3551       | 0.2       | /      | 1         | 3550.875   | -28.56      | -13         | Pass   |
| 3551        | 3555       | 1         | CHP    | 2         | 3551.025   | -25.49      | -13         | Pass   |

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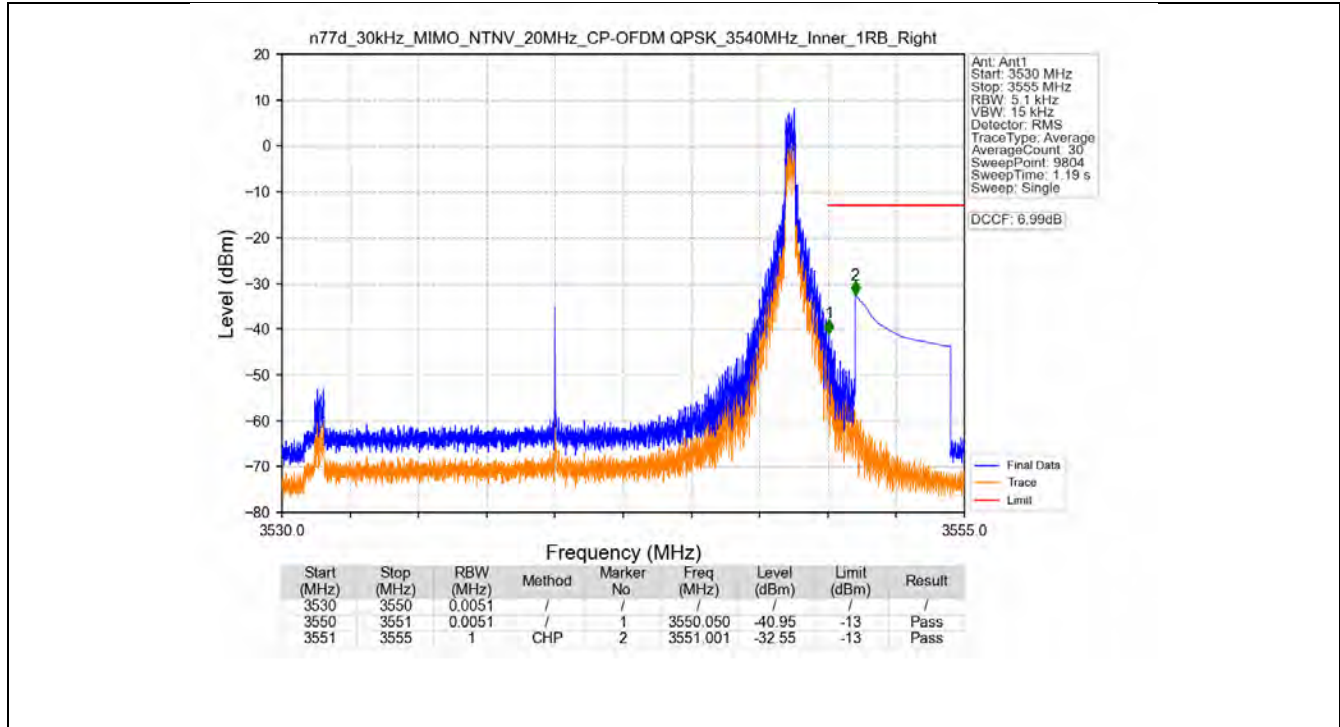


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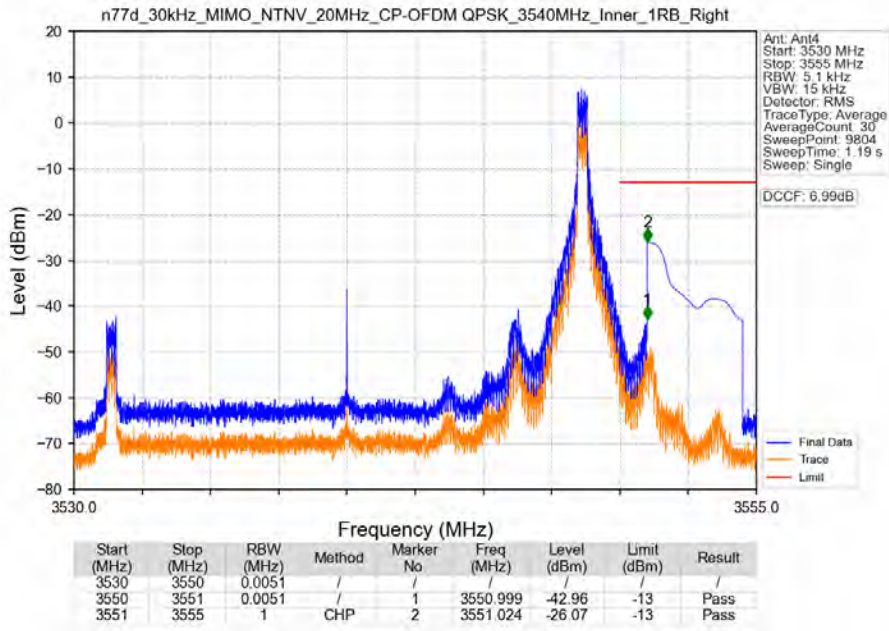
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n77d\_30kHz\_MIMO\_NTNV\_20MHz\_CP-OFDM QPSK\_3540MHz\_Inner\_1RB\_Right



n77d\_30kHz\_MIMO\_NTNV\_20MHz\_CP-OFDM QPSK\_3540MHz\_Inner\_1RB\_Right



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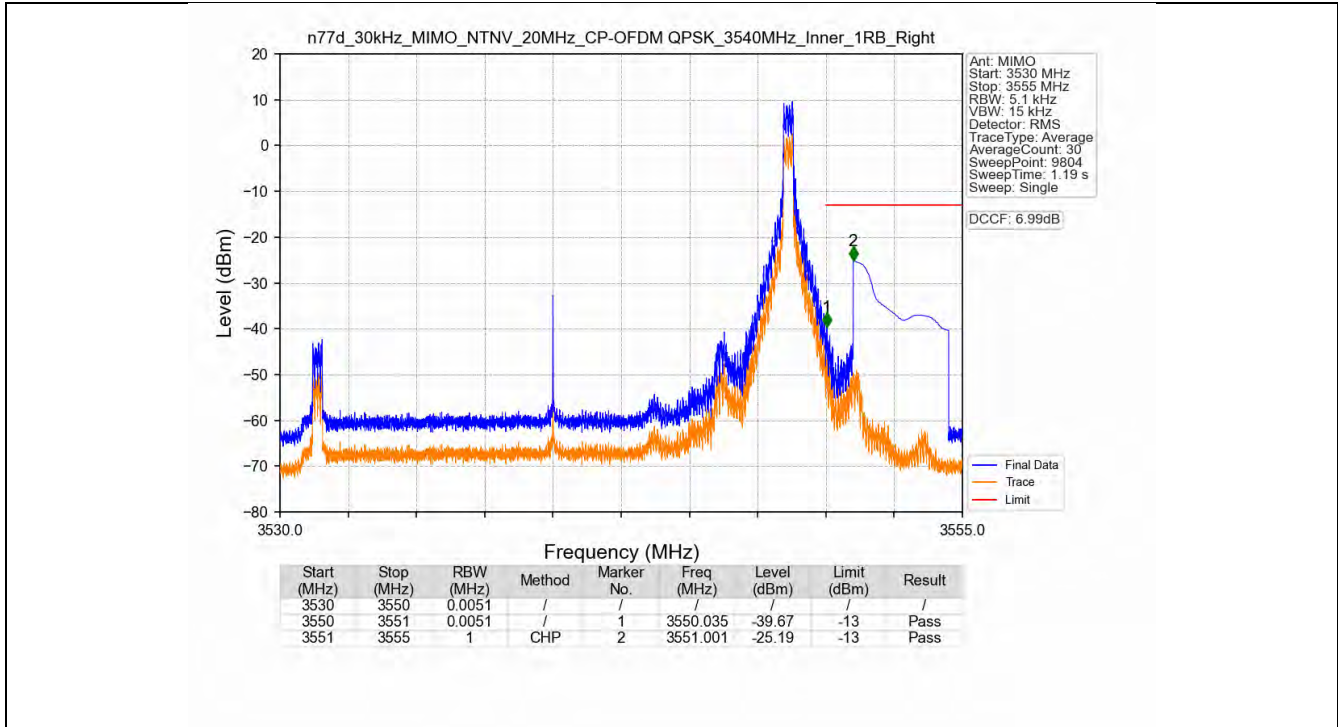


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## 5.8 30k\_MIMO\_30MHz\_NTNV

### 5.8.1 Test Result

| 5G NR n77d SCS=30kHz MIMO 30MHz NTN |                 |                     |                     |      |      |         |
|-------------------------------------|-----------------|---------------------|---------------------|------|------|---------|
| Modulation                          | Frequency (MHz) | RB Allocation       | Spurious Emission   |      |      | Verdict |
|                                     |                 |                     | Ant1                | Ant4 | Sum  |         |
| CP-OFDM<br>QPSK                     | 3465            | Edge_1RB_Left       | Refer To Test Graph |      |      | Pass    |
|                                     |                 |                     | Refer To Test Graph |      |      | Pass    |
|                                     |                 |                     | Refer To Test Graph |      |      | Pass    |
|                                     |                 | Outer_Full          | Refer To Test Graph |      |      | Pass    |
|                                     |                 |                     | Refer To Test Graph |      |      | Pass    |
|                                     |                 |                     | Refer To Test Graph |      |      | Pass    |
|                                     | 3534.99         | Inner_1RB_Left      | Refer To Test Graph |      |      | Pass    |
|                                     |                 |                     | Refer To Test Graph |      |      | Pass    |
|                                     |                 |                     | Refer To Test Graph |      |      | Pass    |
|                                     |                 | Edge_1RB_Right      | Refer To Test Graph |      |      | Pass    |
|                                     |                 |                     | Refer To Test Graph |      |      | Pass    |
|                                     |                 |                     | Refer To Test Graph |      |      | Pass    |
|                                     | Outer_Full      | Refer To Test Graph |                     |      | Pass |         |
|                                     |                 | Refer To Test Graph |                     |      | Pass |         |
|                                     |                 | Refer To Test Graph |                     |      | Pass |         |
|                                     | Inner_1RB_Right | Refer To Test Graph |                     |      | Pass |         |
| Refer To Test Graph                 |                 |                     | Pass                |      |      |         |



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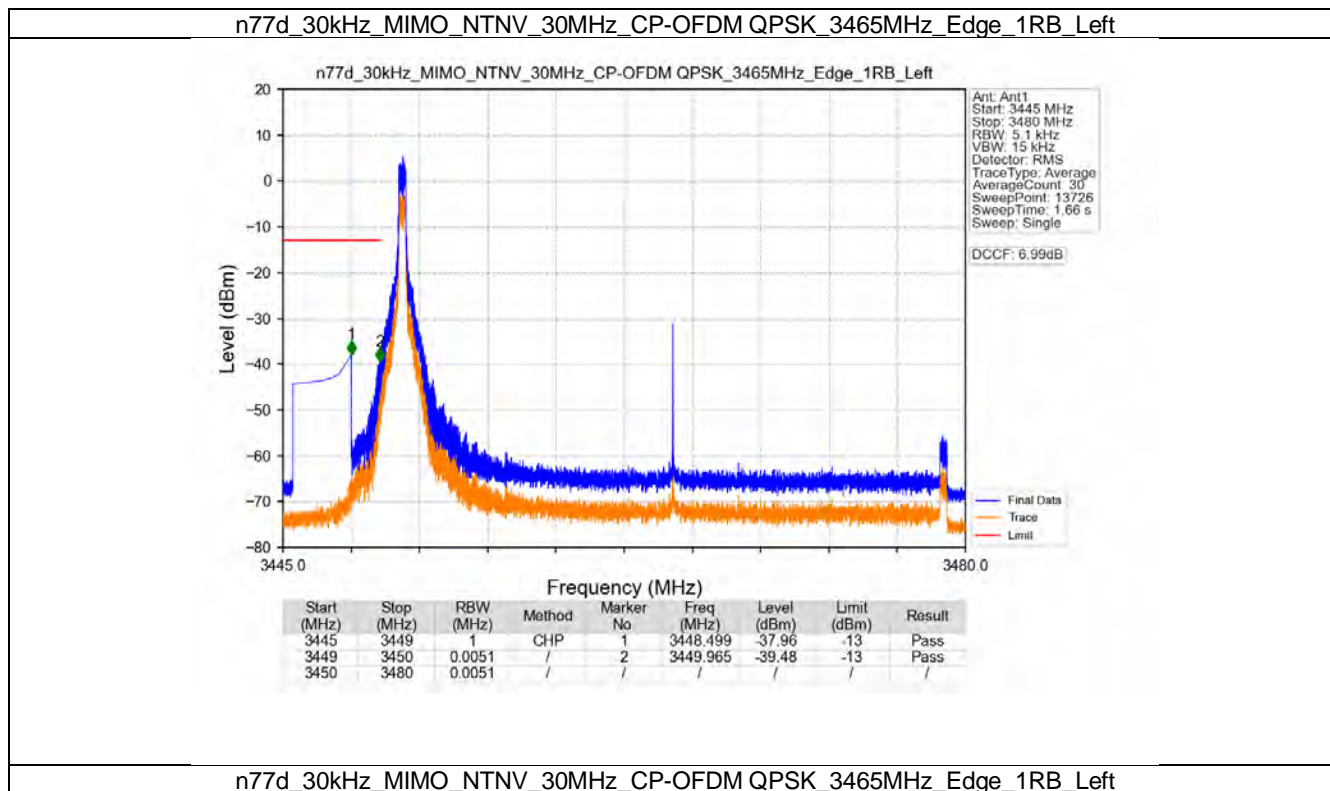
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## 5.8.2 Test Graph



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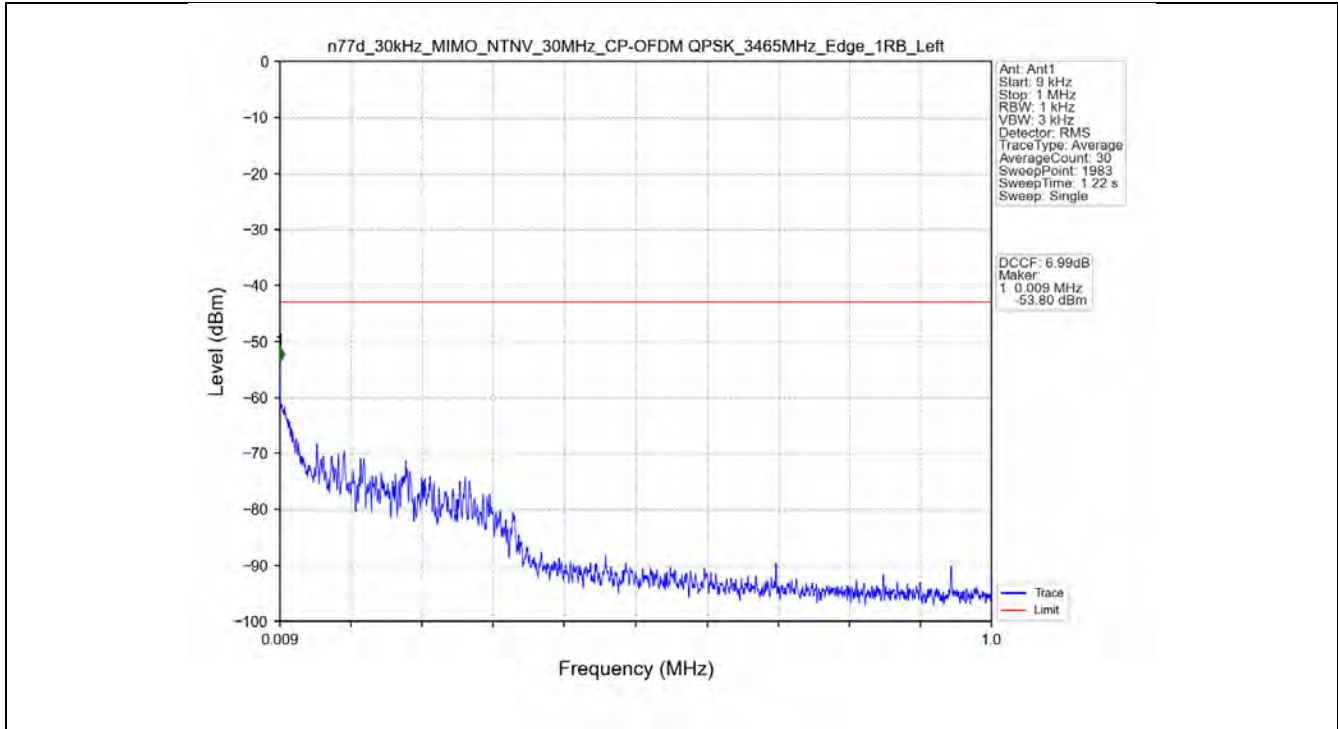


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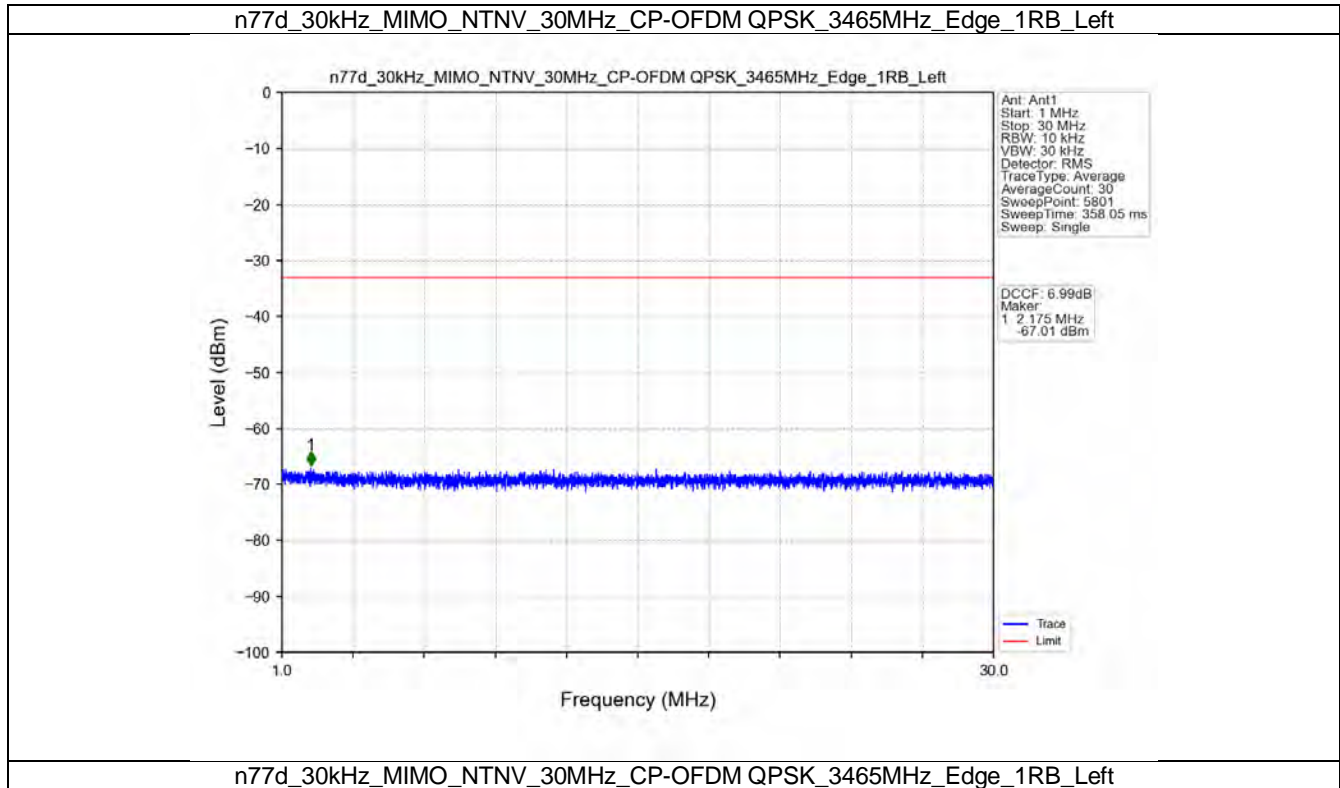


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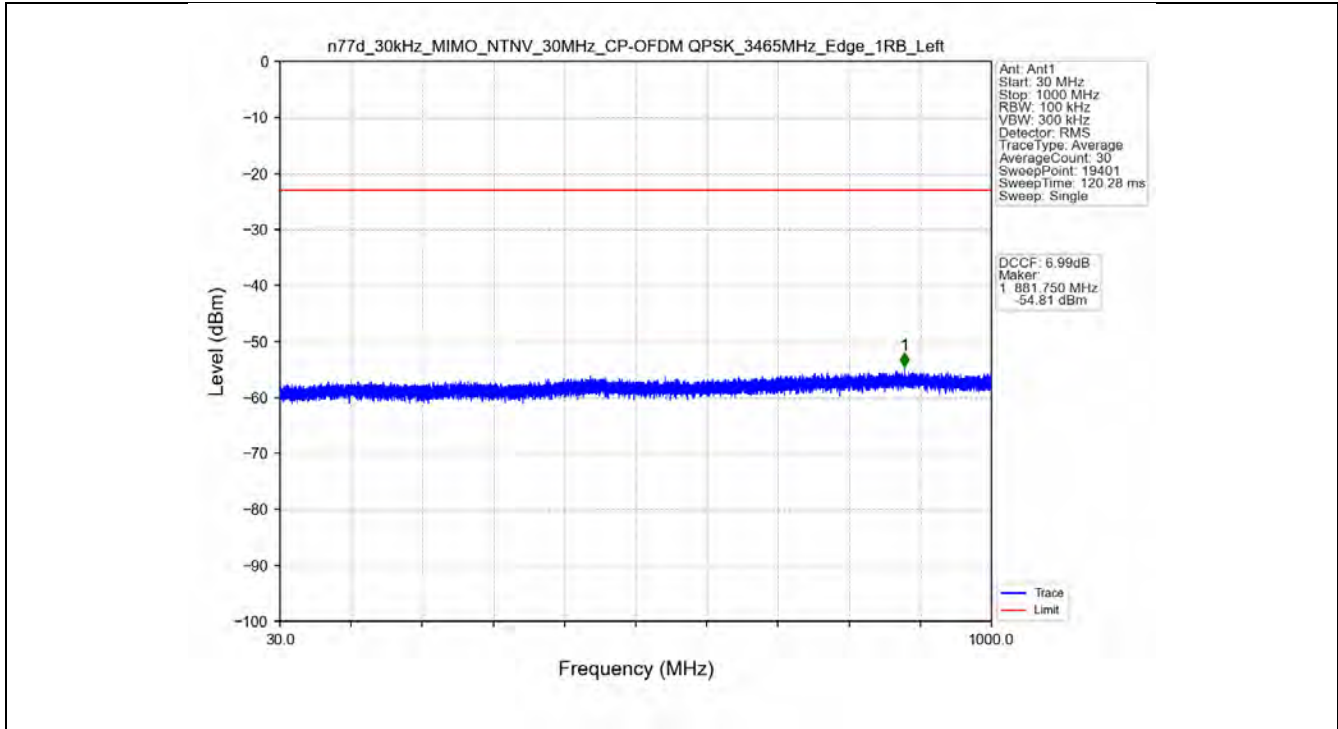


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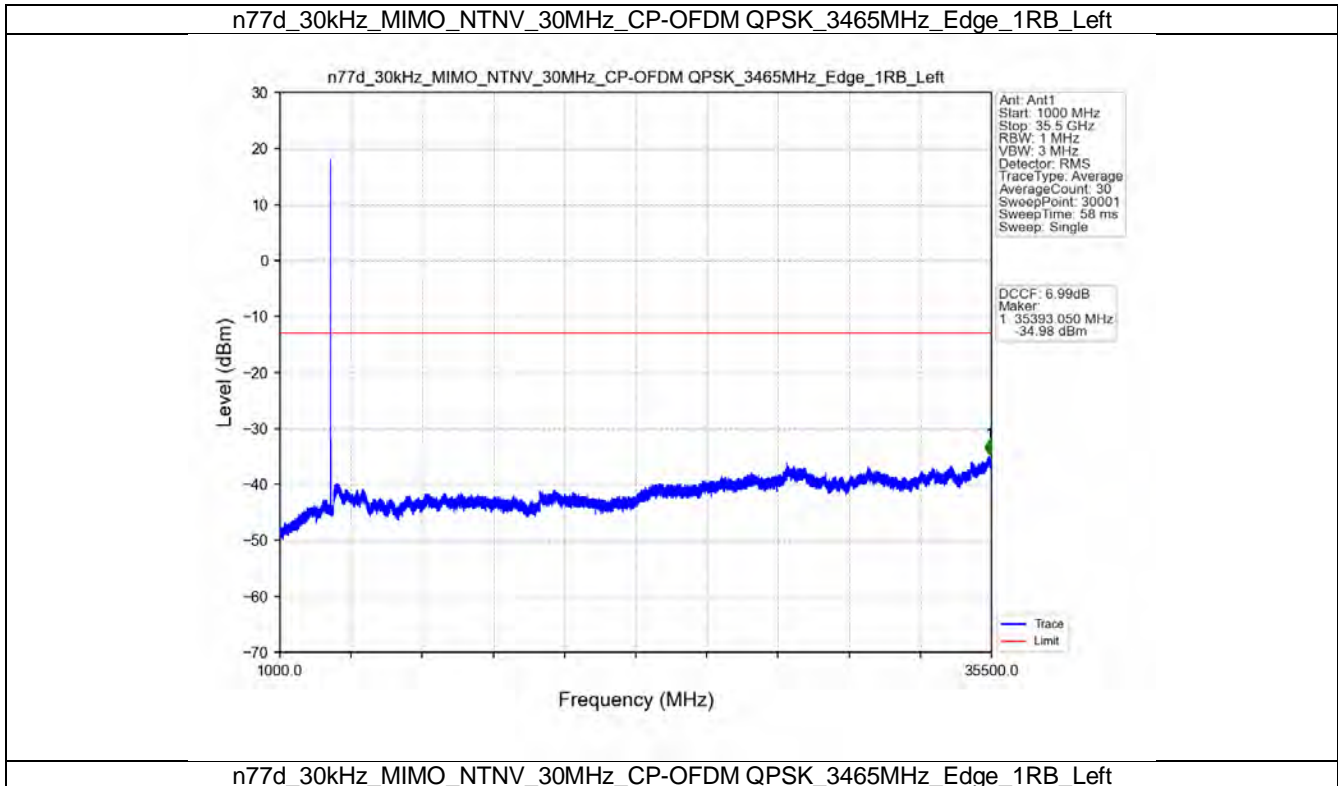


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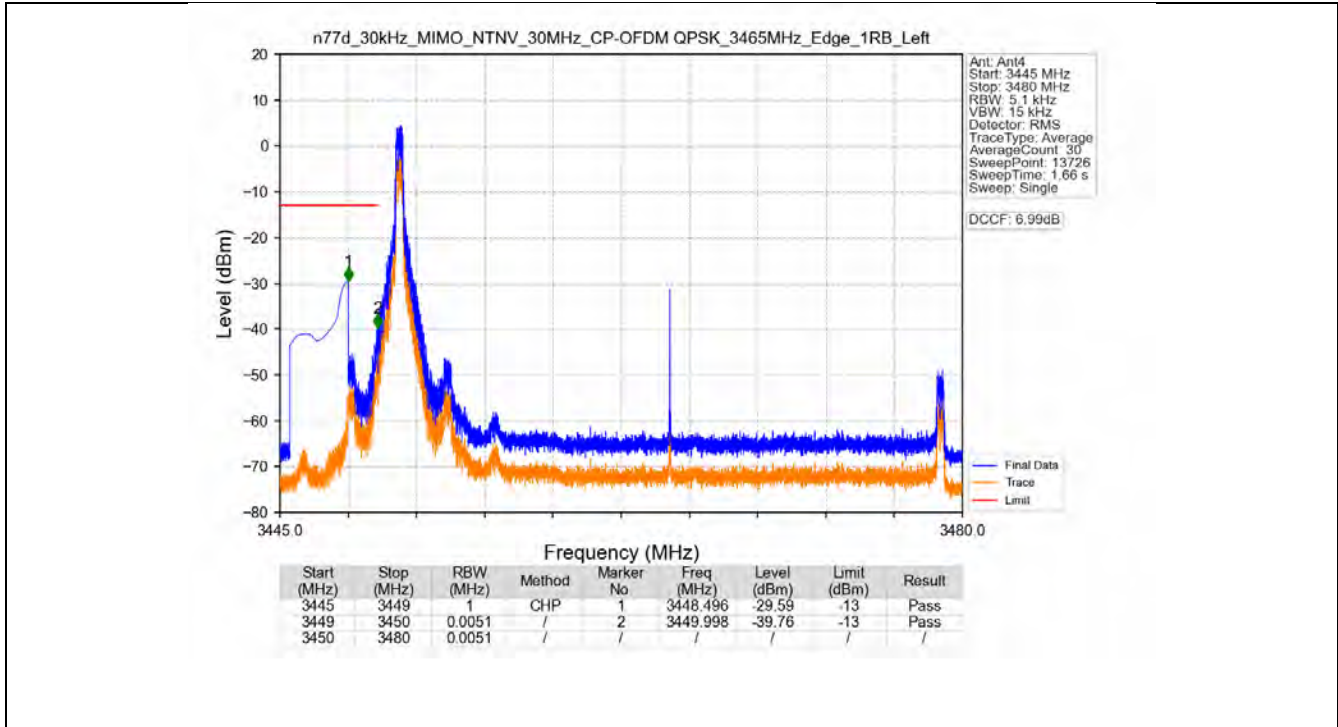


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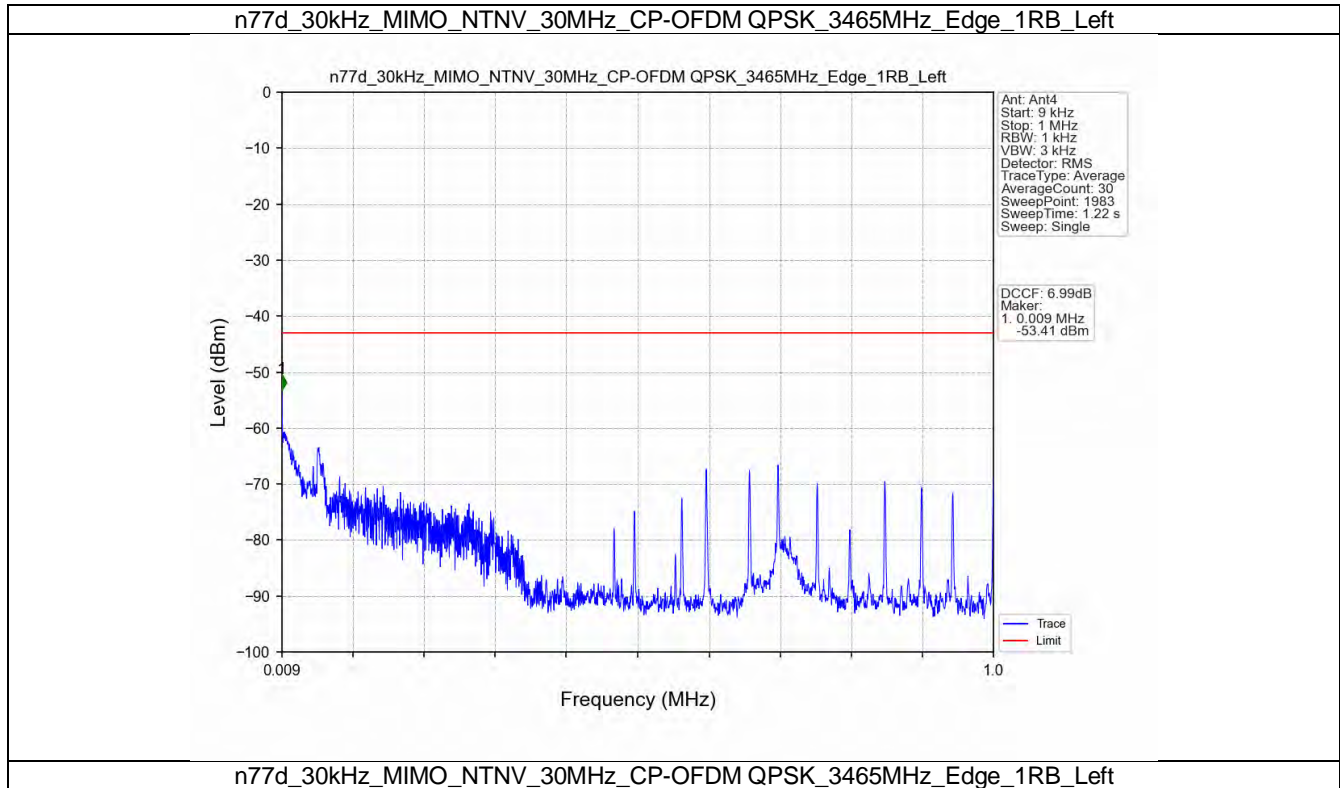


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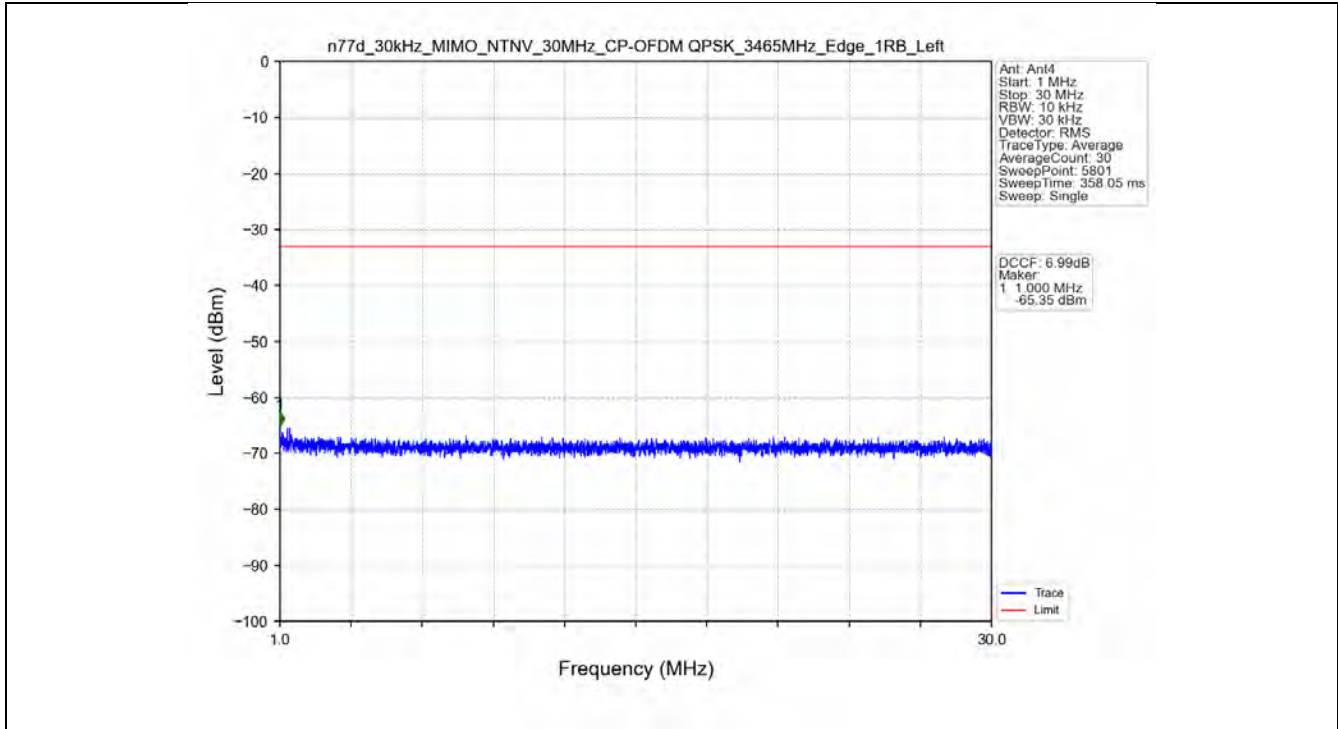


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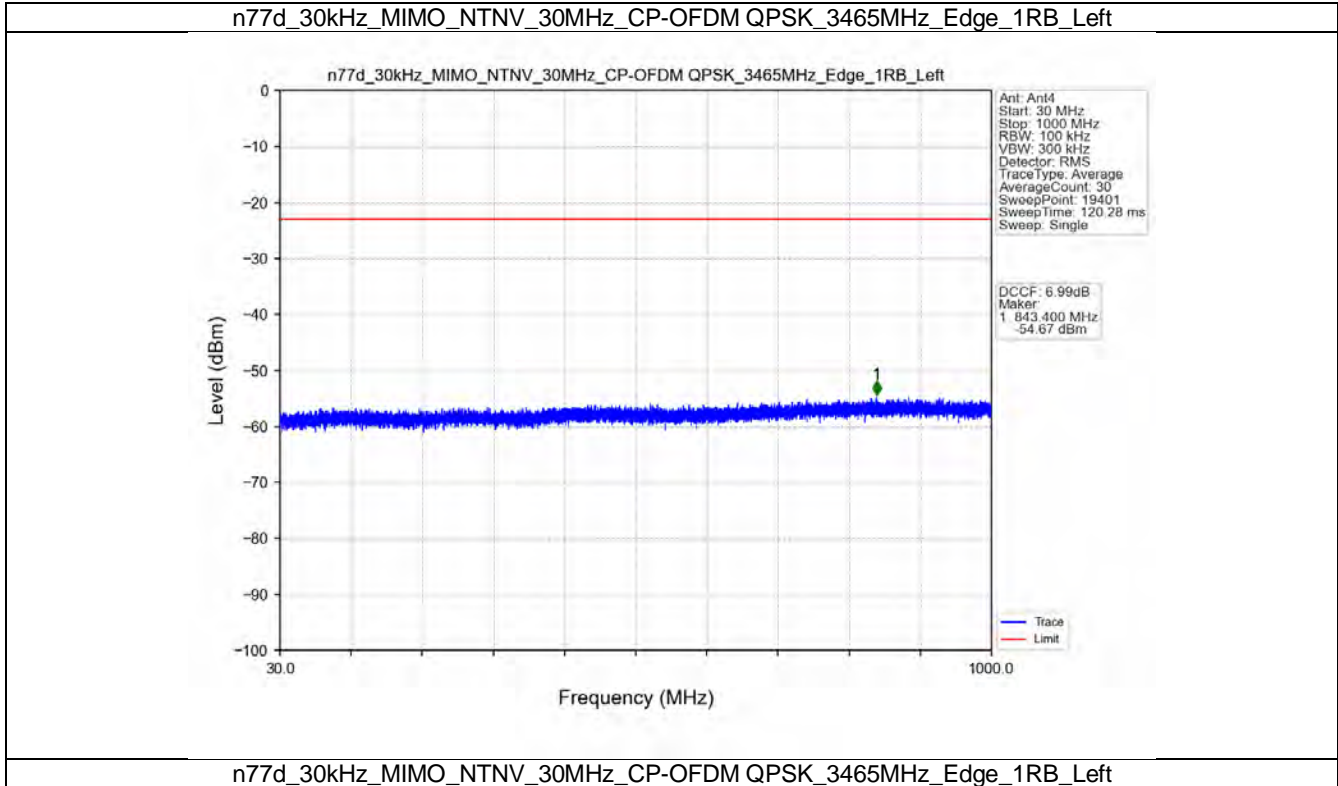


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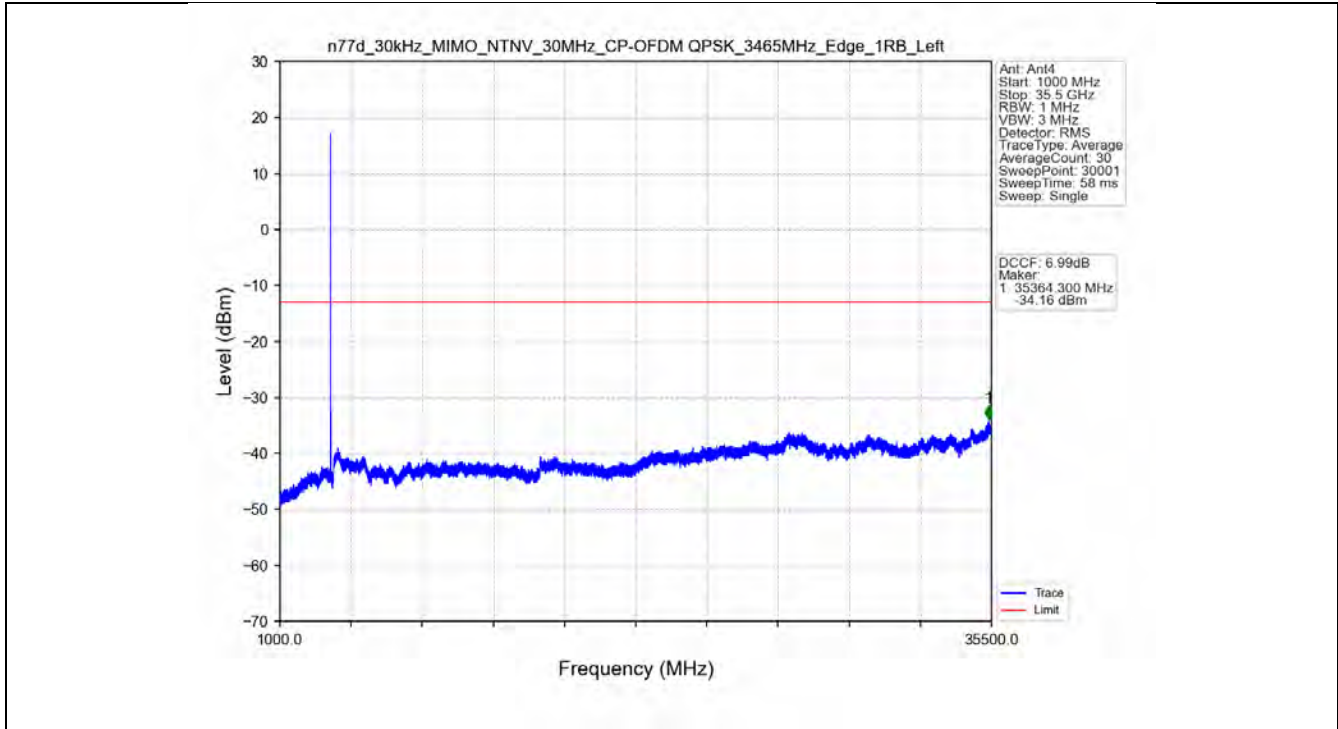


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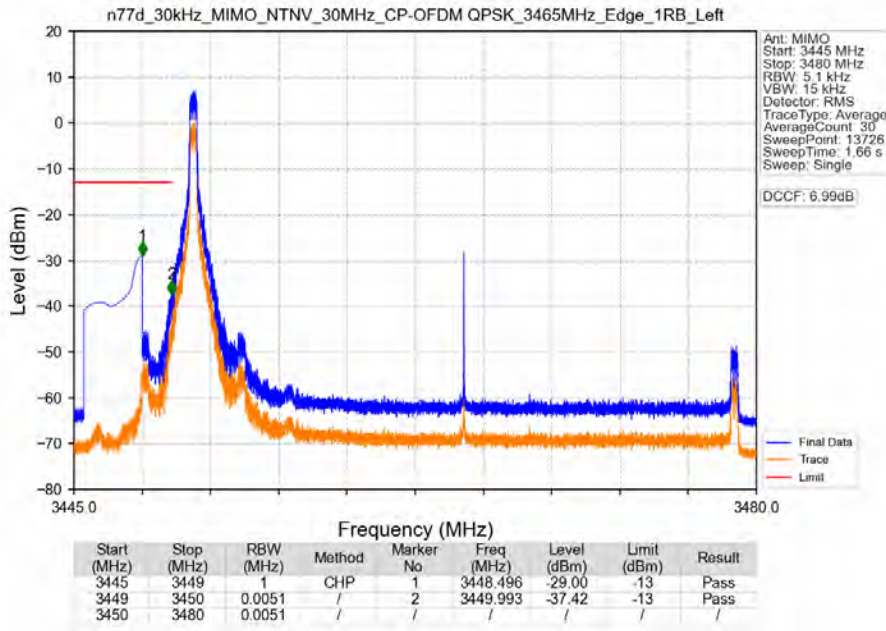
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n77d\_30kHz\_MIMO\_NTNV\_30MHz\_CP-OFDM QPSK\_3465MHz\_Edge\_1RB\_Left



n77d\_30kHz\_MIMO\_NTNV\_30MHz\_CP-OFDM QPSK\_3465MHz\_Edge\_1RB\_Left



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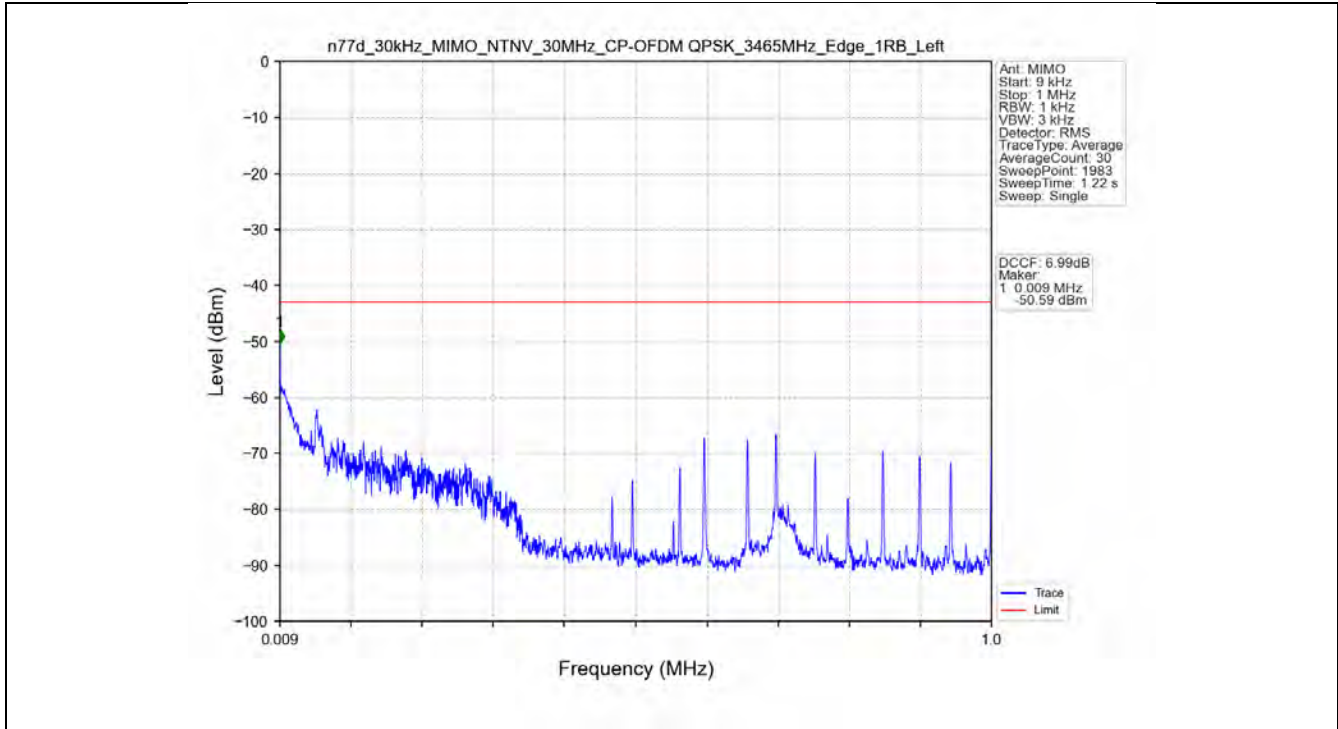


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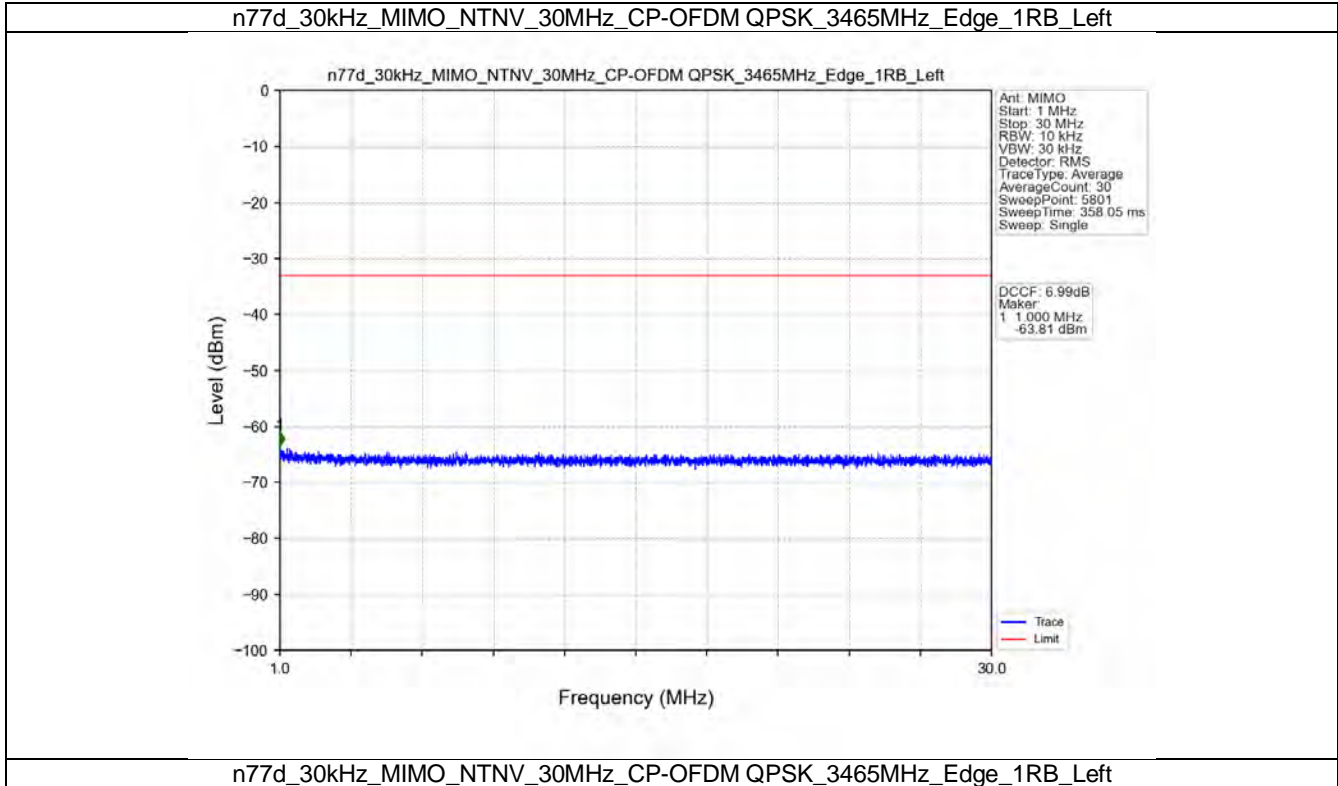


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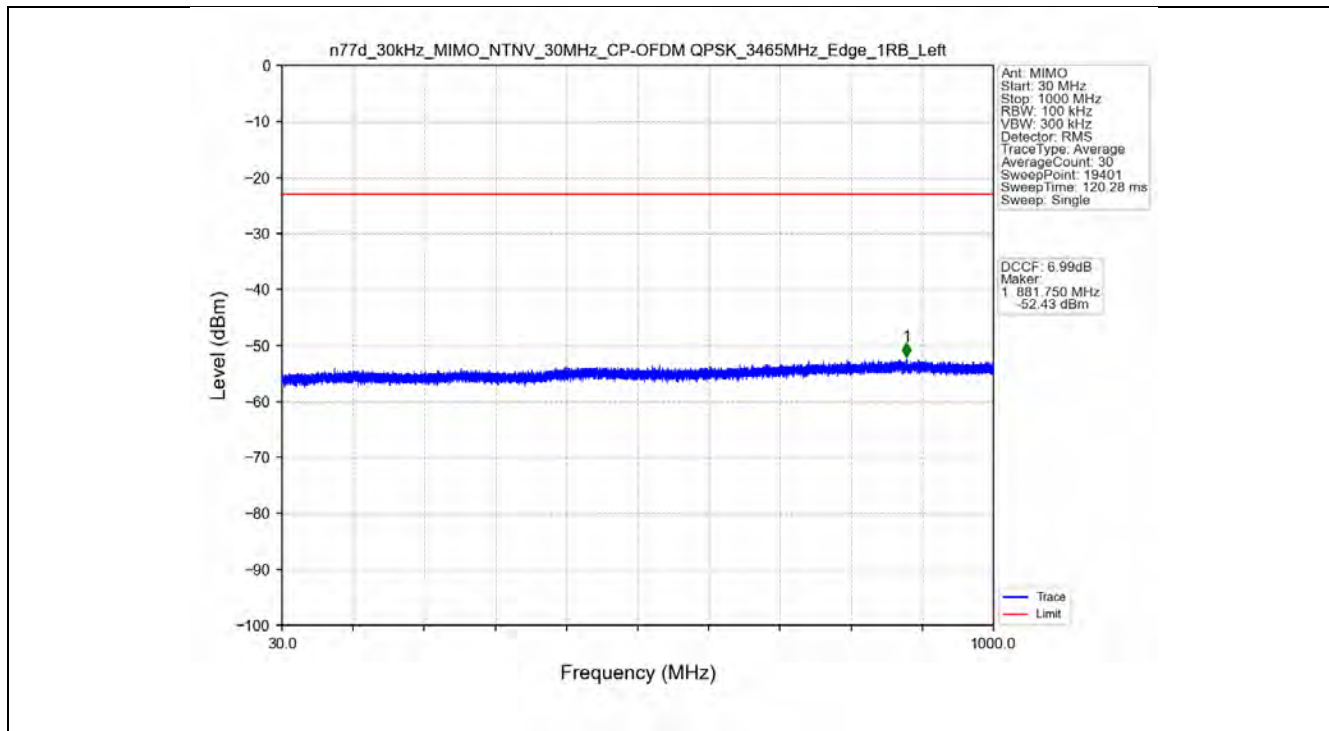
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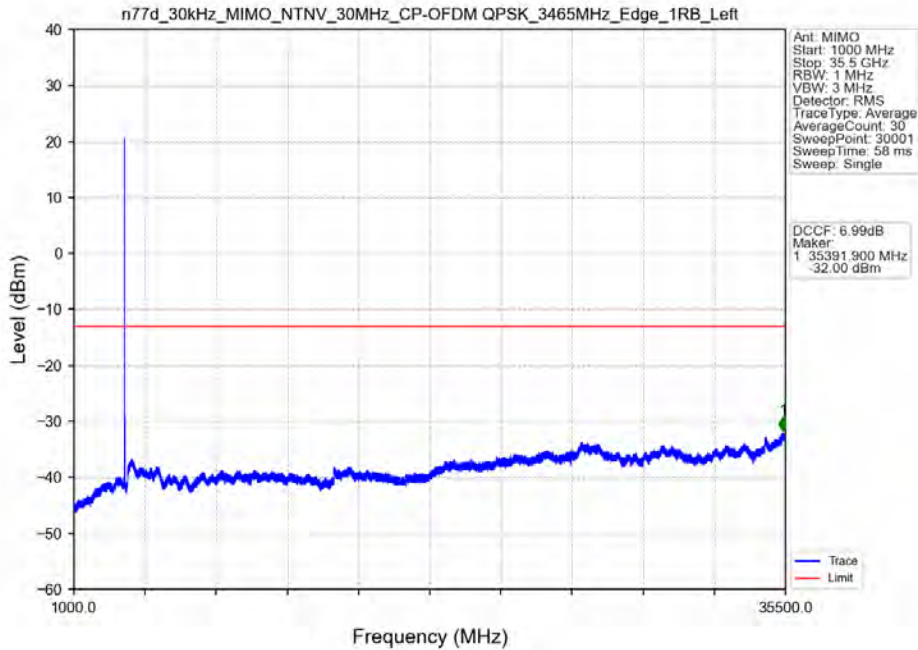
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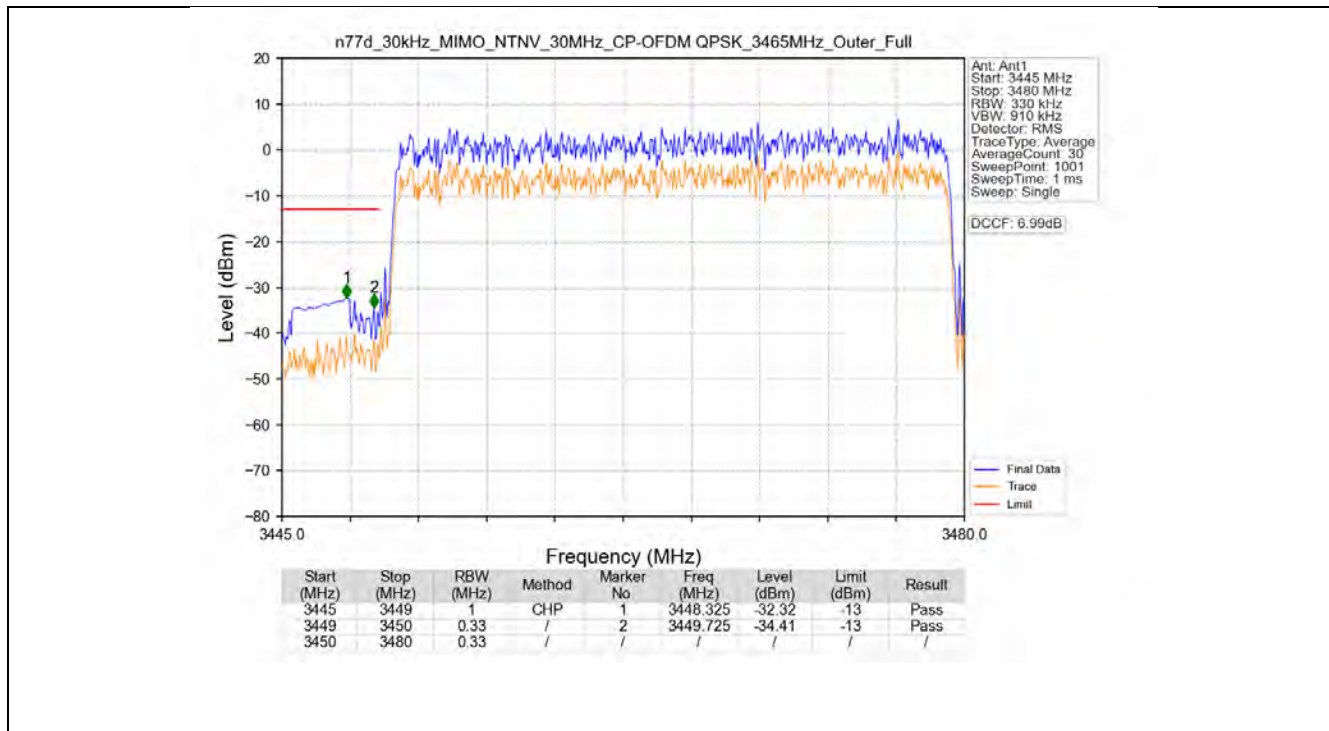
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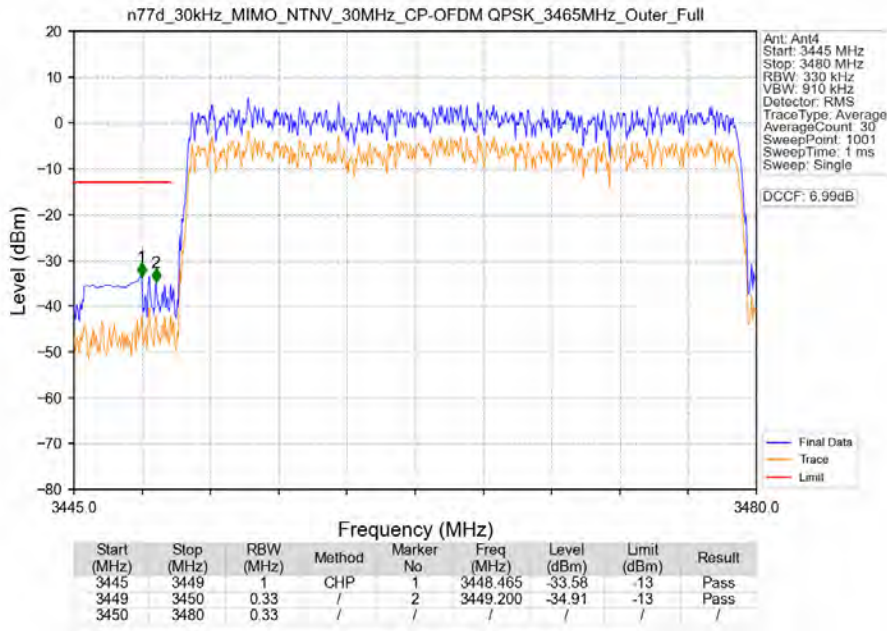
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n77d\_30kHz\_MIMO\_NTNV\_30MHz\_CP-OFDM\_QPSK\_3465MHz\_Outer\_Full



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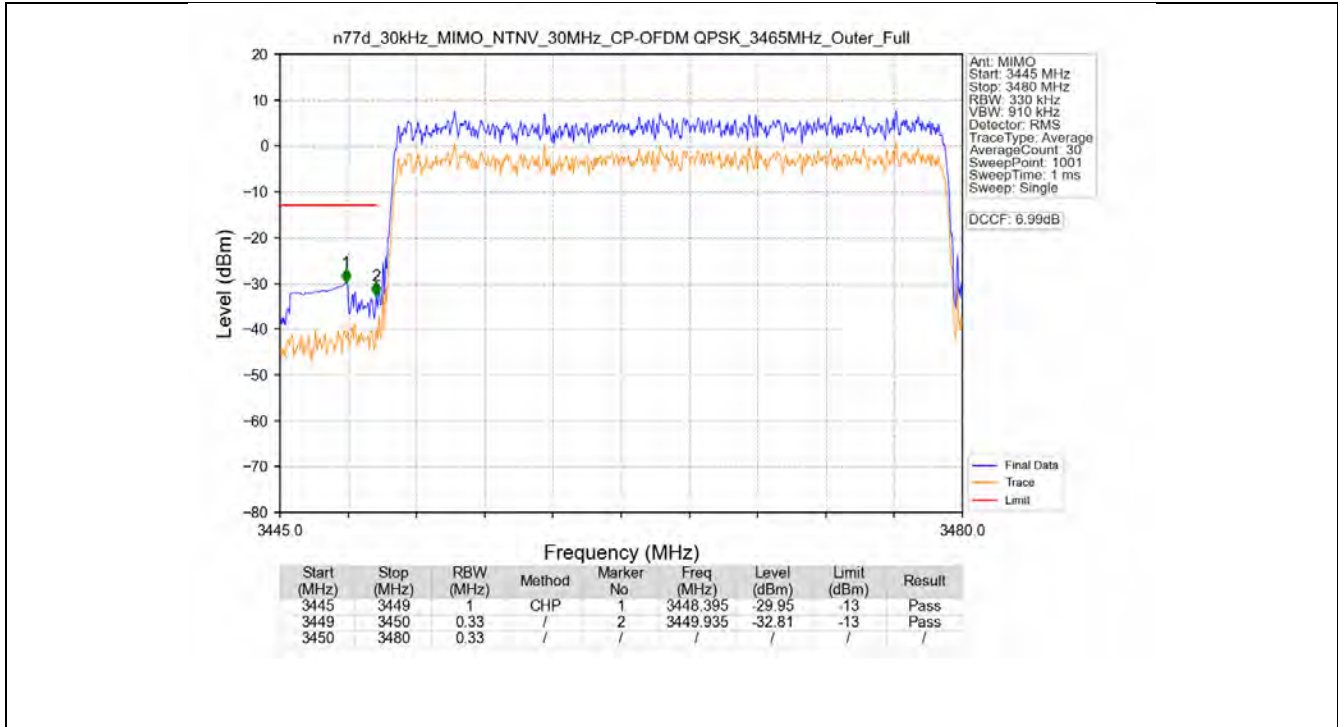


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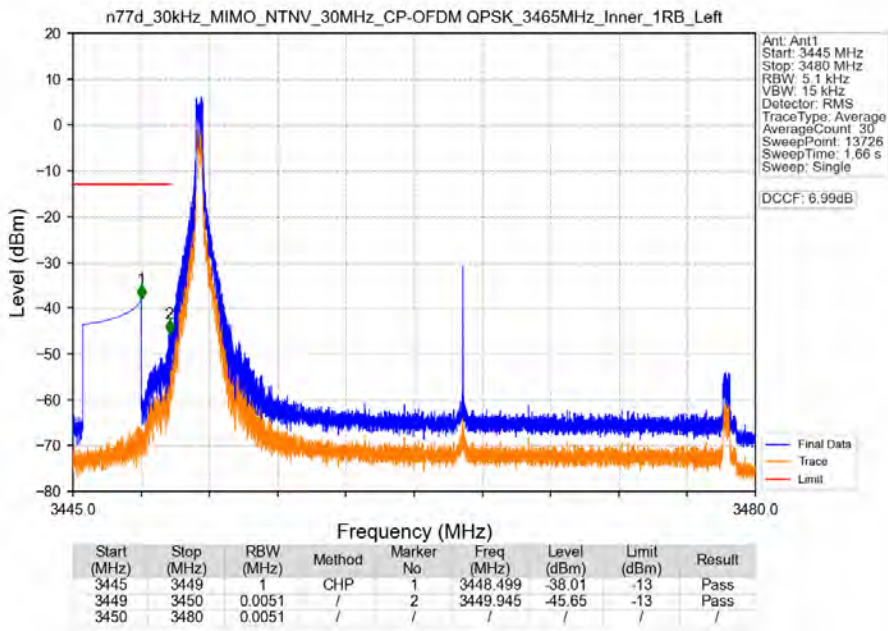




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n77d\_30kHz\_MIMO\_NTNV\_30MHz\_CP-OFDM QPSK\_3465MHz\_Inner\_1RB\_Left



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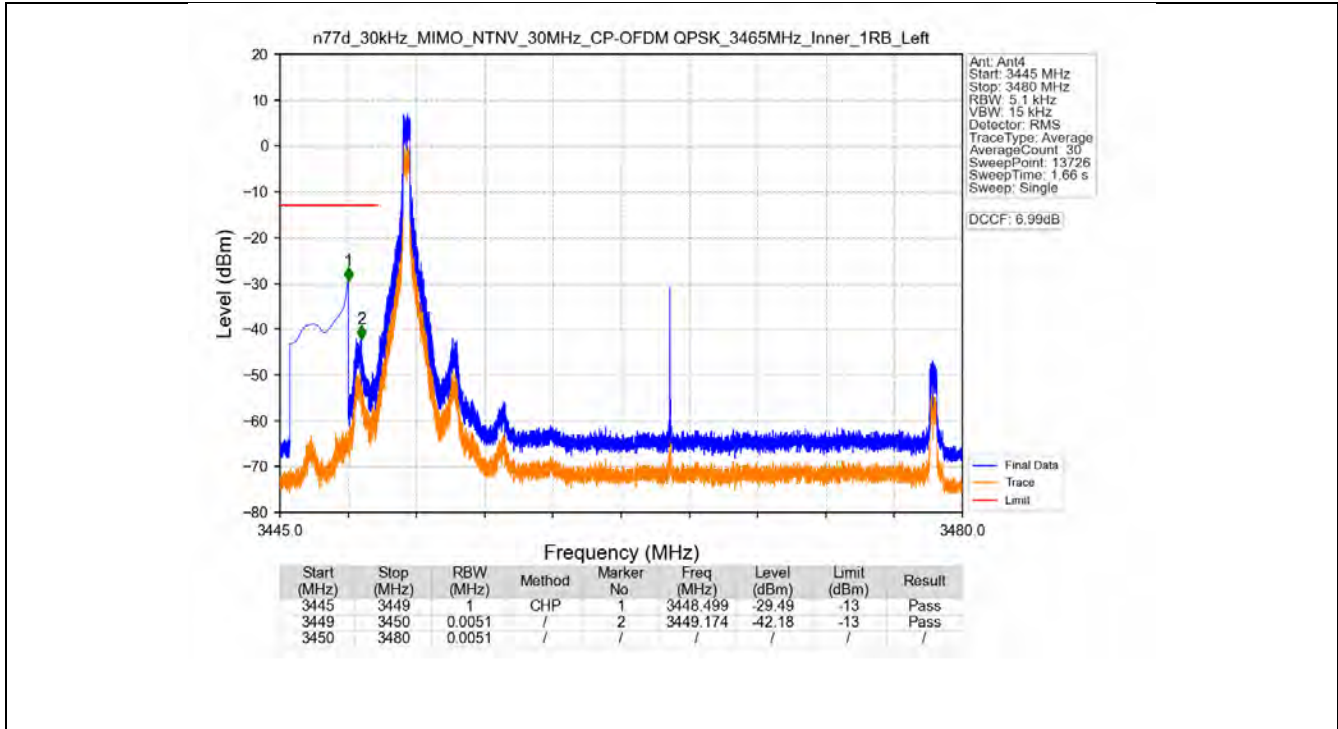


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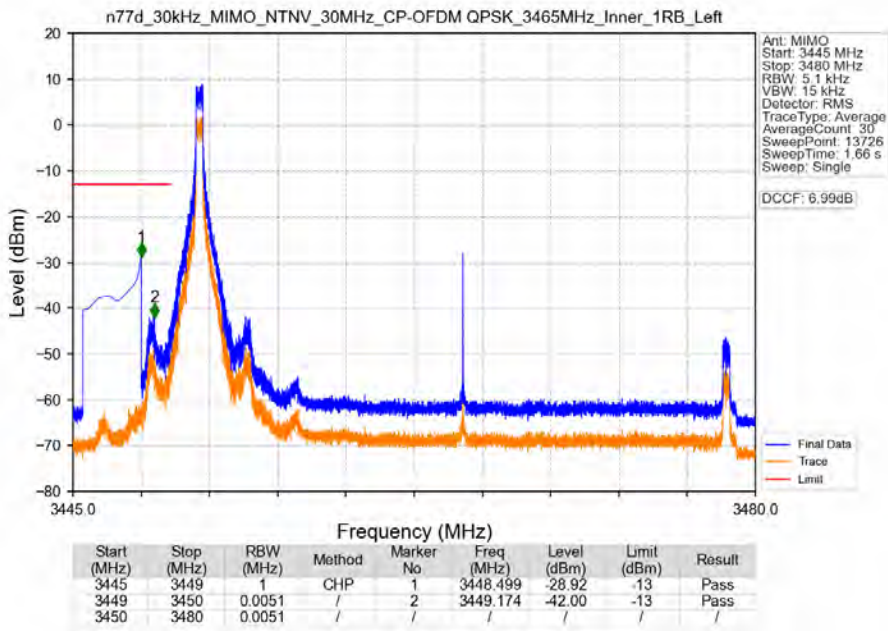
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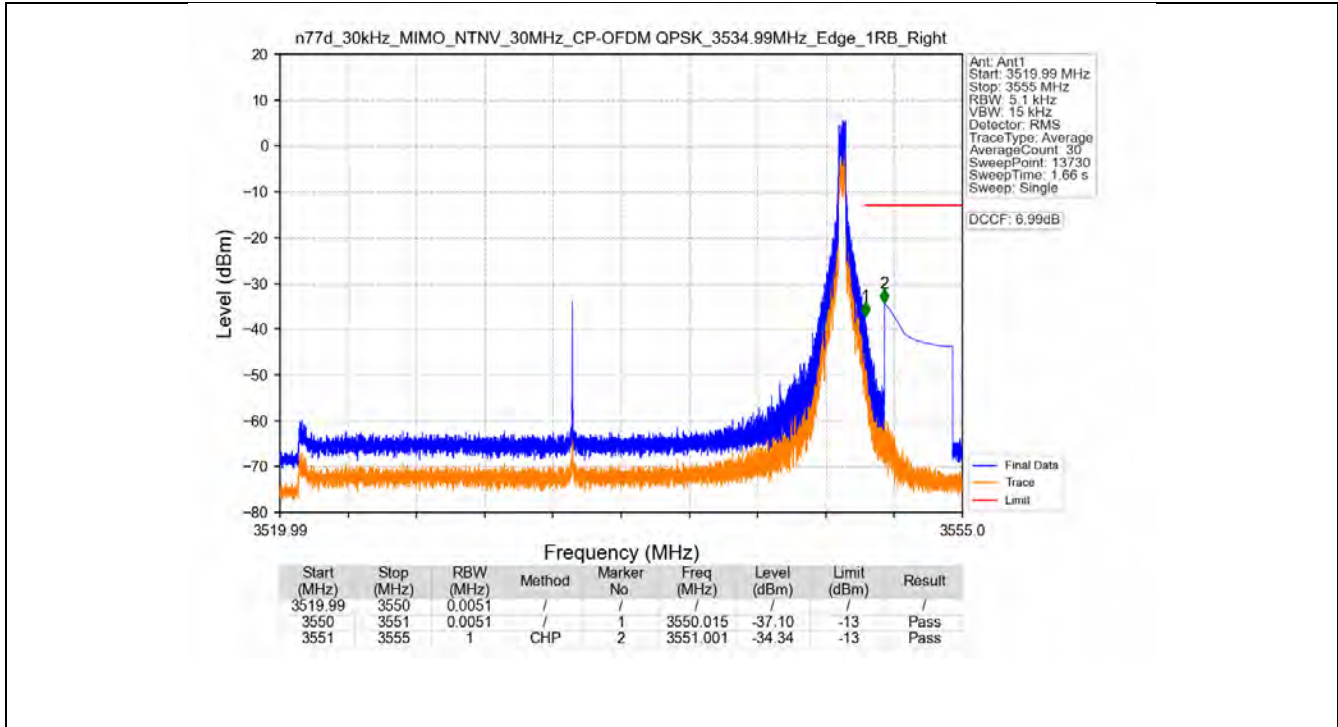


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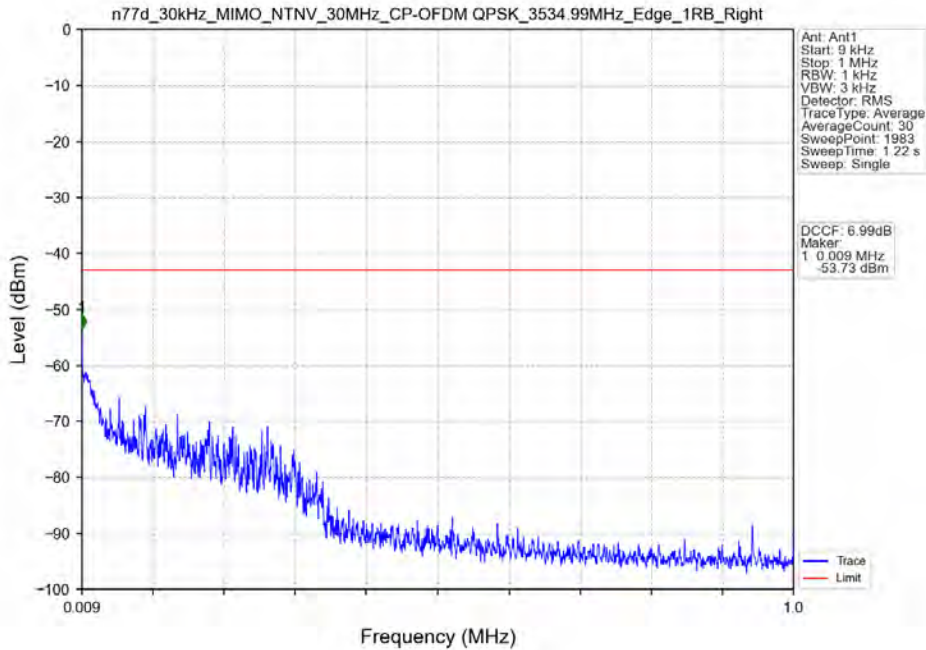
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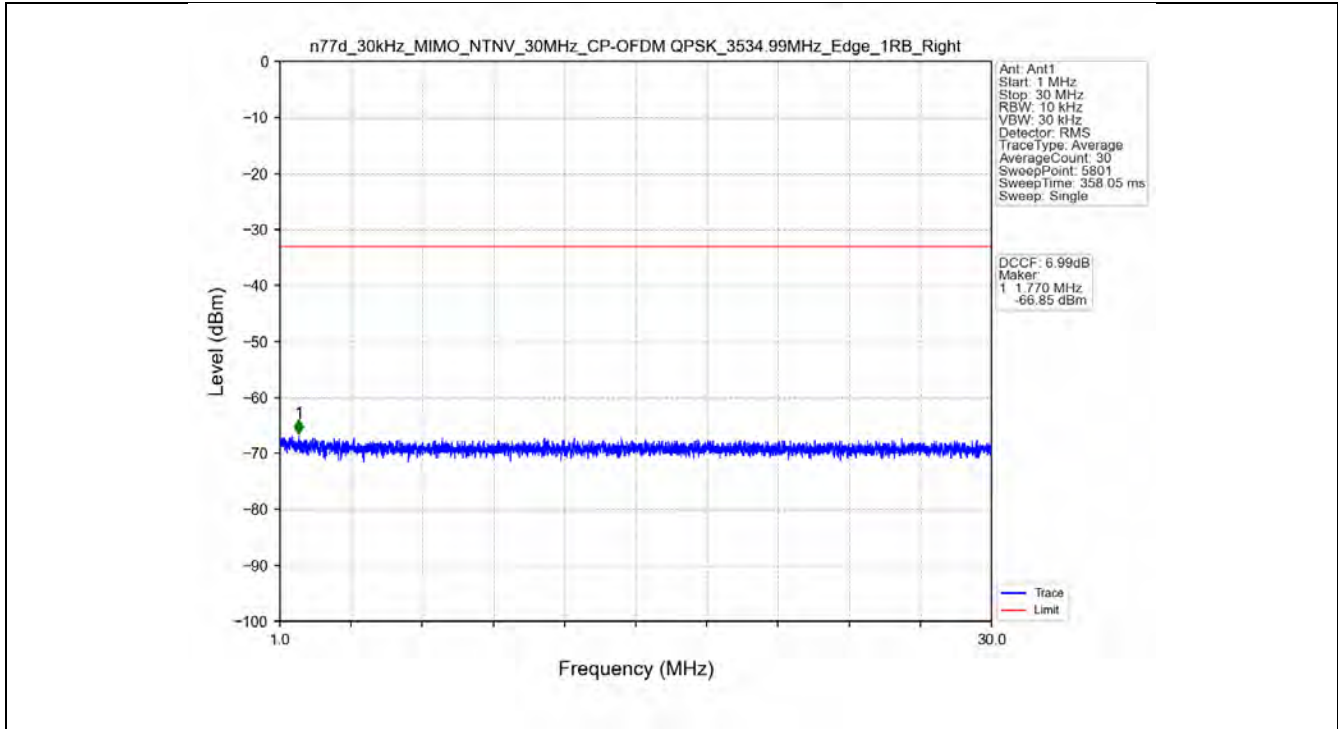


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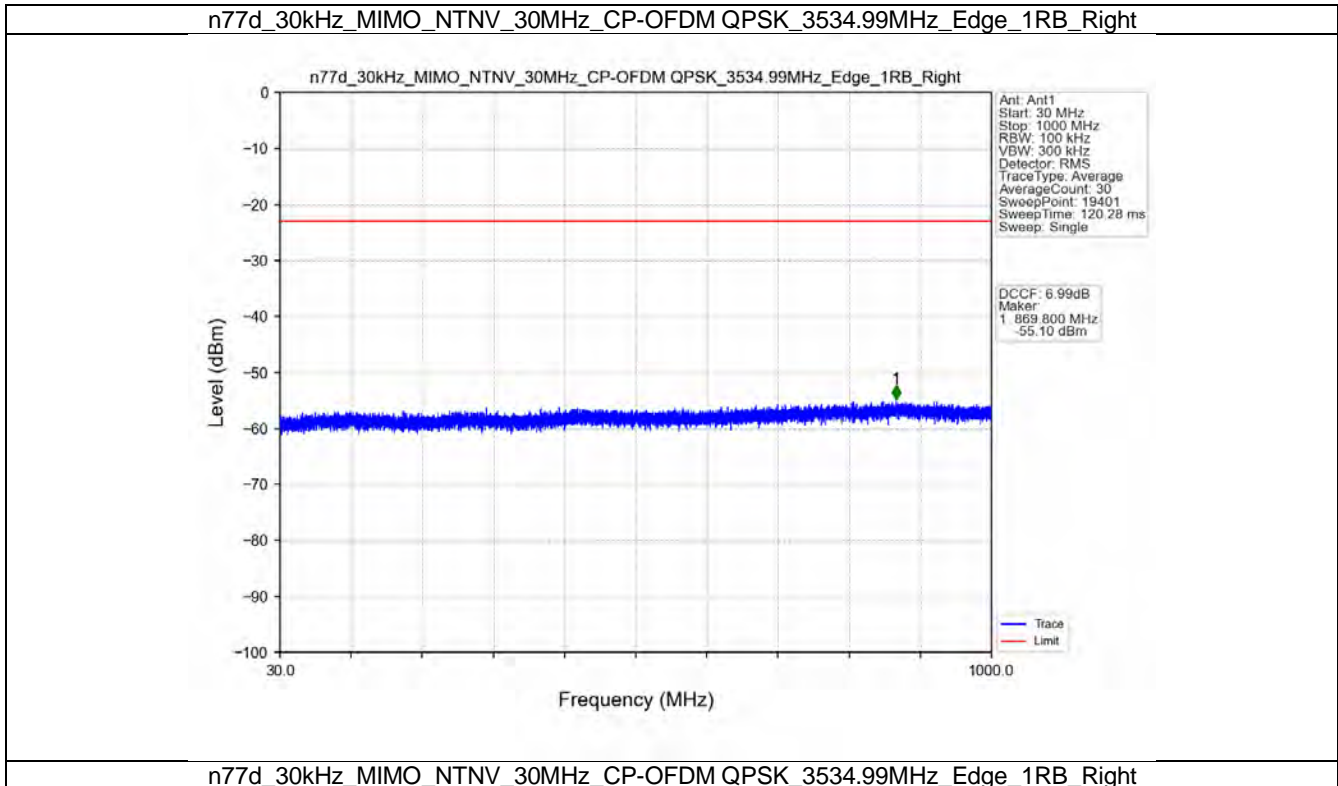


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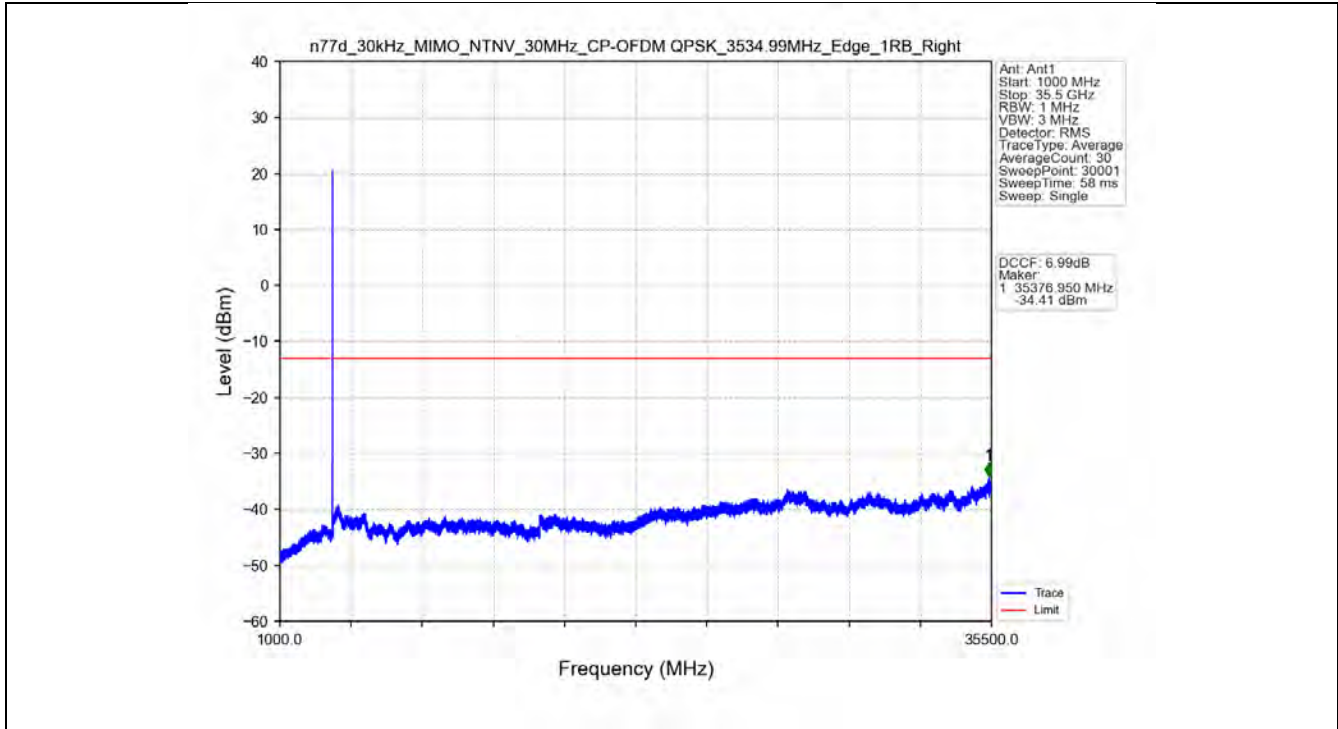


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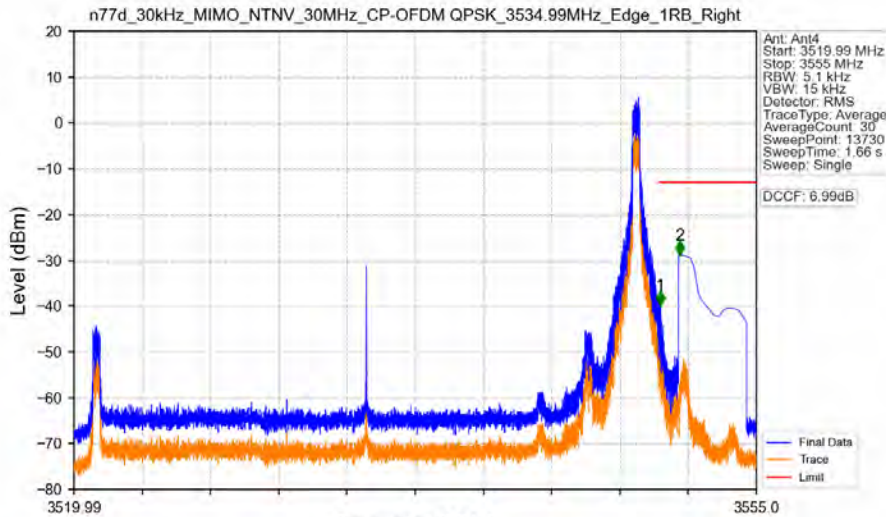
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n77d\_30kHz\_MIMO\_NTNV\_30MHz\_CP-OFDM QPSK\_3534.99MHz\_Edge\_1RB\_Right



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 3519.99     | 3550       | 0.0051    | /      | /         | /          | /           | /           | /      |
| 3550        | 3551       | 0.0051    | /      | 1         | 3550.076   | -39.80      | -13         | Pass   |
| 3551        | 3555       | 1         | CHP    | 2         | 3551.083   | -28.85      | -13         | Pass   |

n77d\_30kHz\_MIMO\_NTNV\_30MHz\_CP-OFDM QPSK\_3534.99MHz\_Edge\_1RB\_Right



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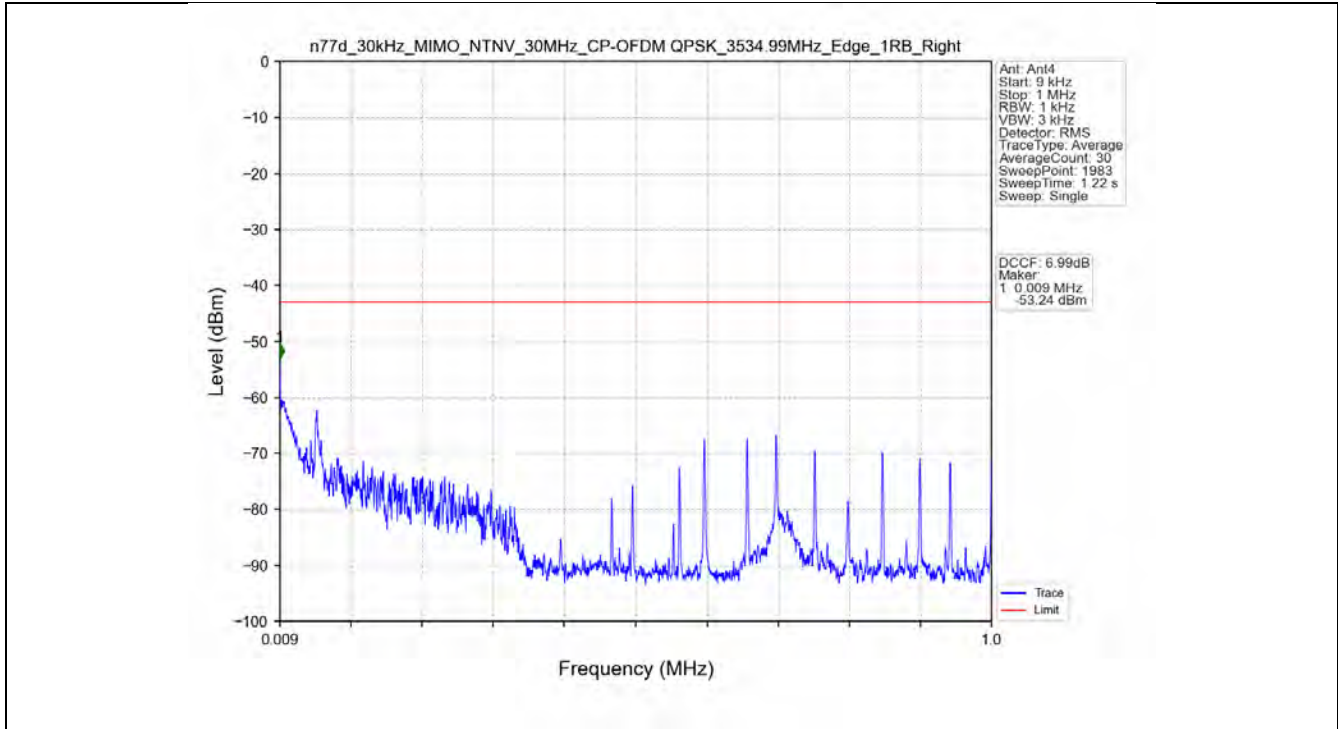


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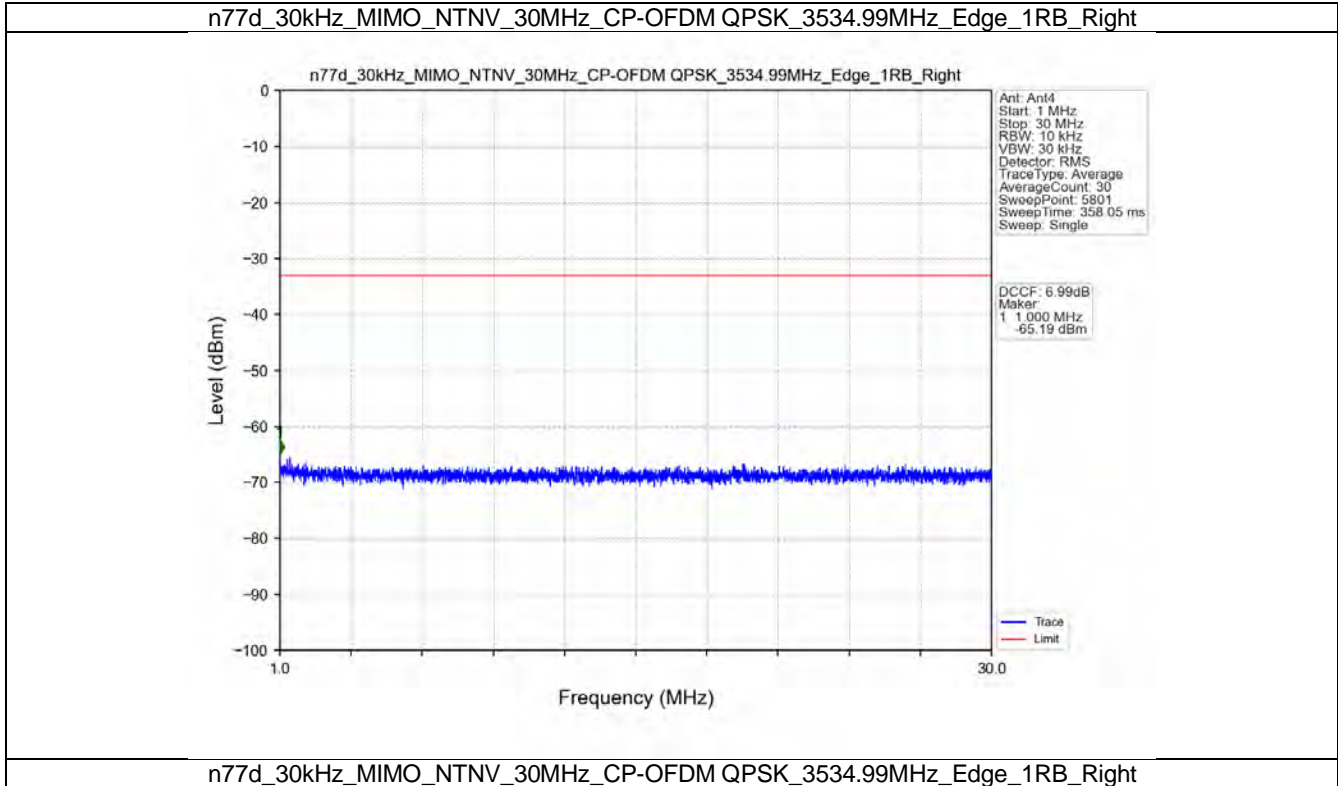


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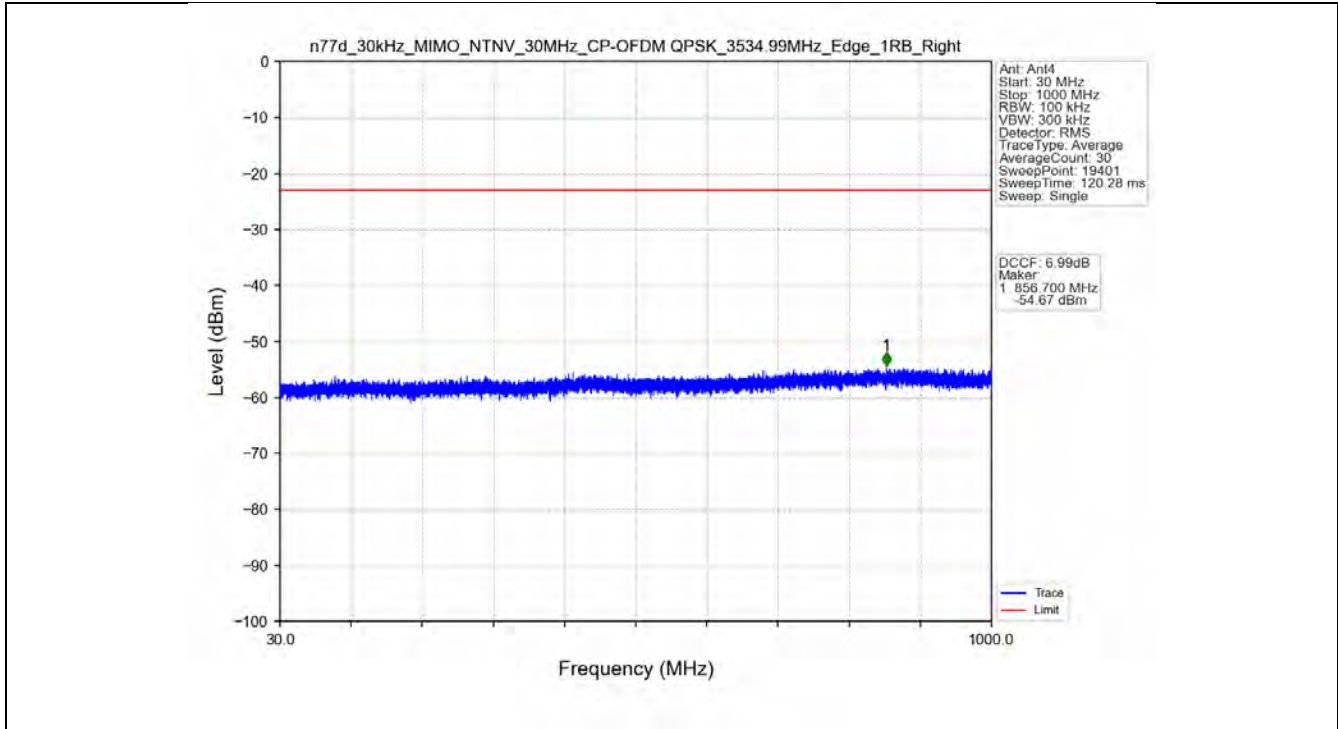


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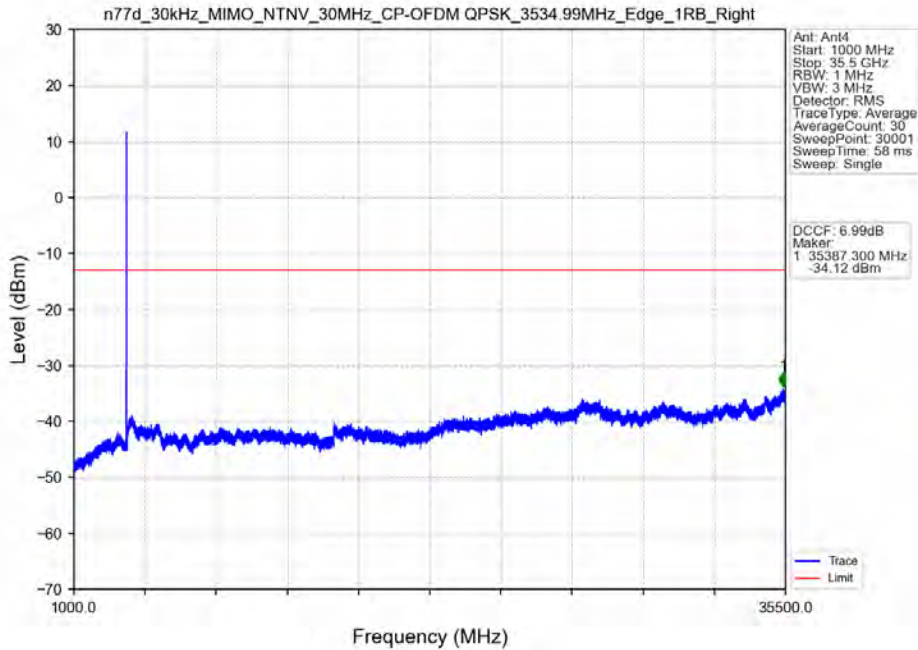
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n77d\_30kHz\_MIMO\_NTNV\_30MHz\_CP-OFDM QPSK\_3534.99MHz\_Edge\_1RB\_Right



n77d\_30kHz\_MIMO\_NTNV\_30MHz\_CP-OFDM QPSK\_3534.99MHz\_Edge\_1RB\_Right



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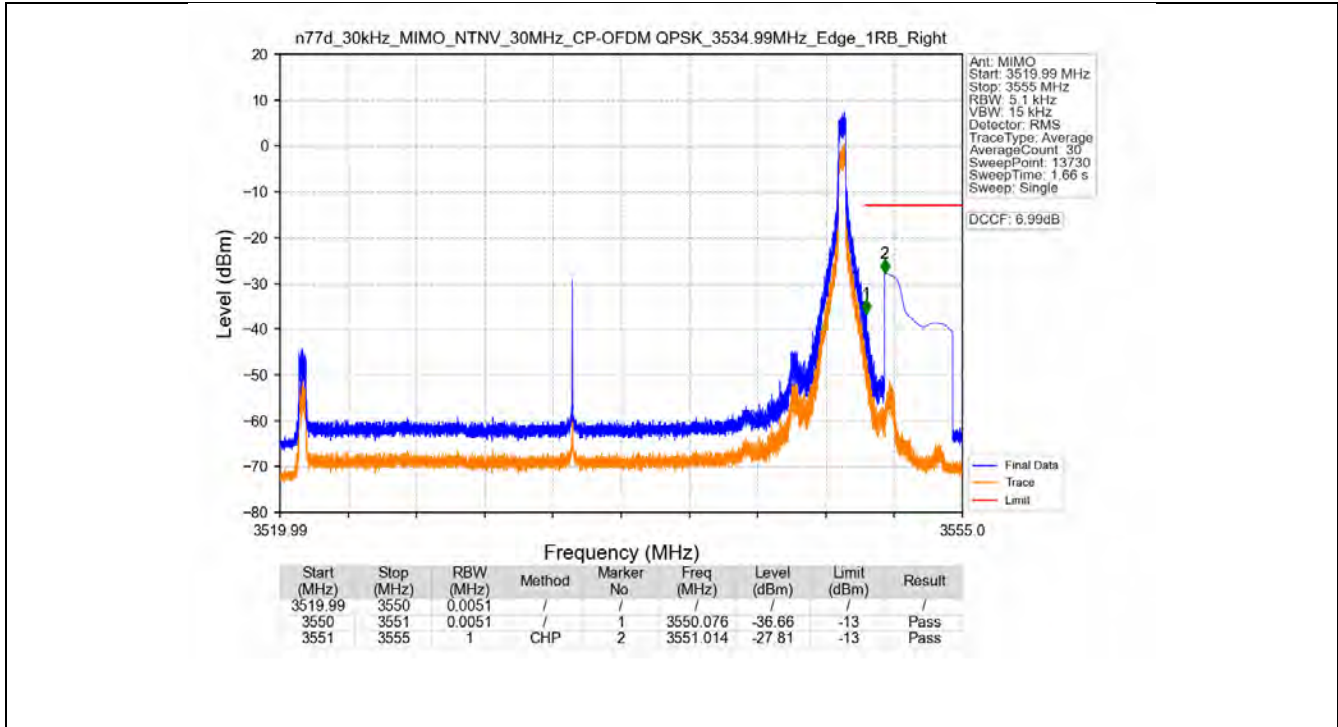


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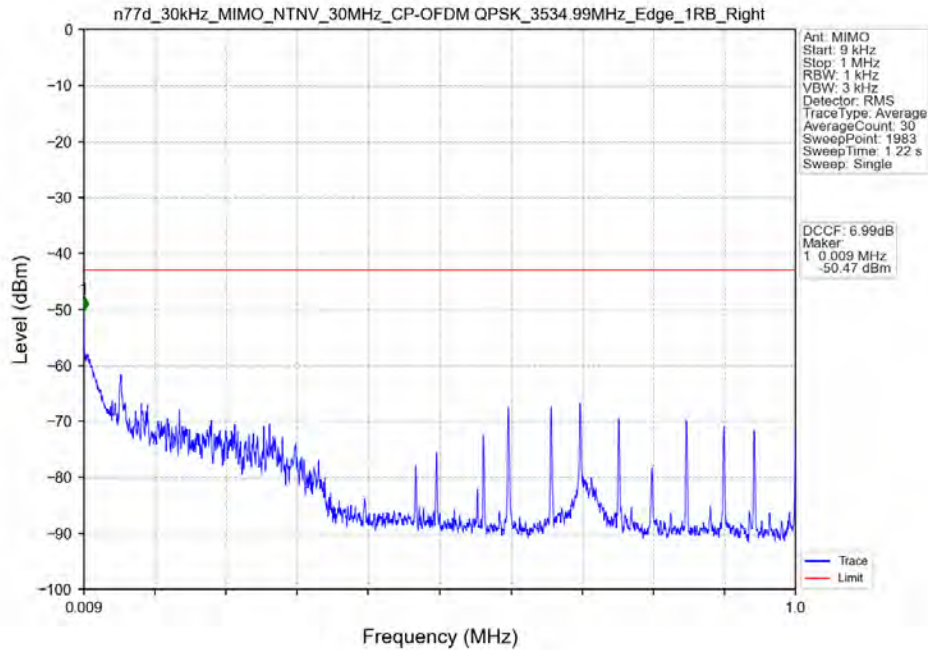
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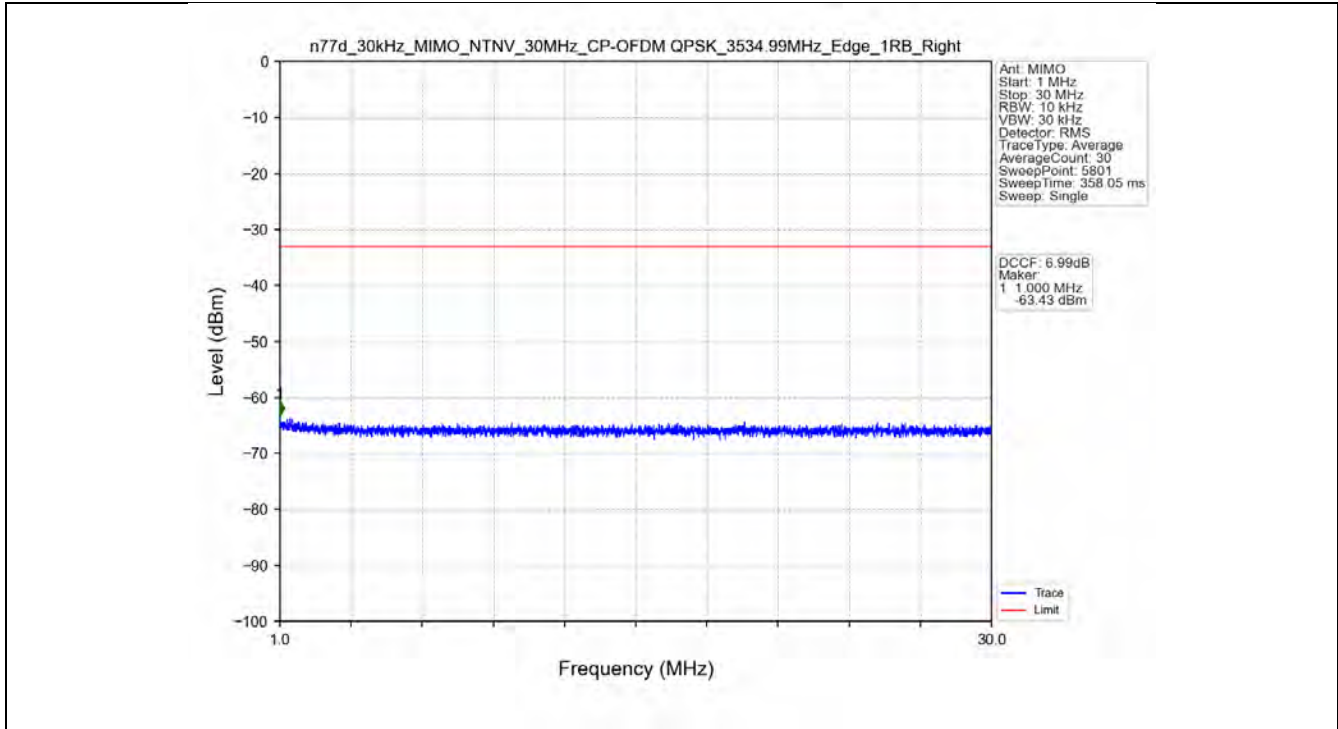


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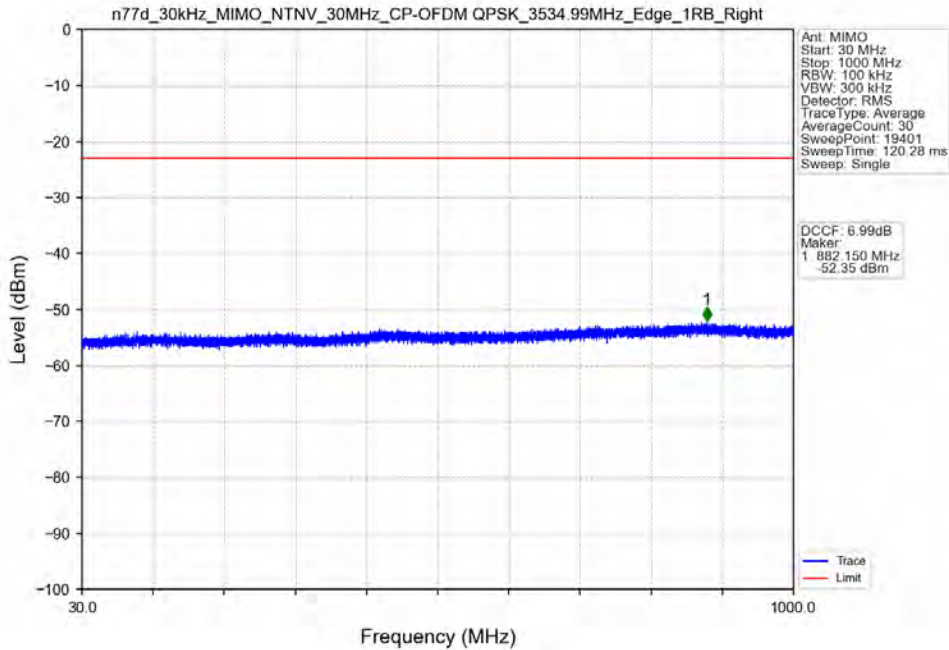
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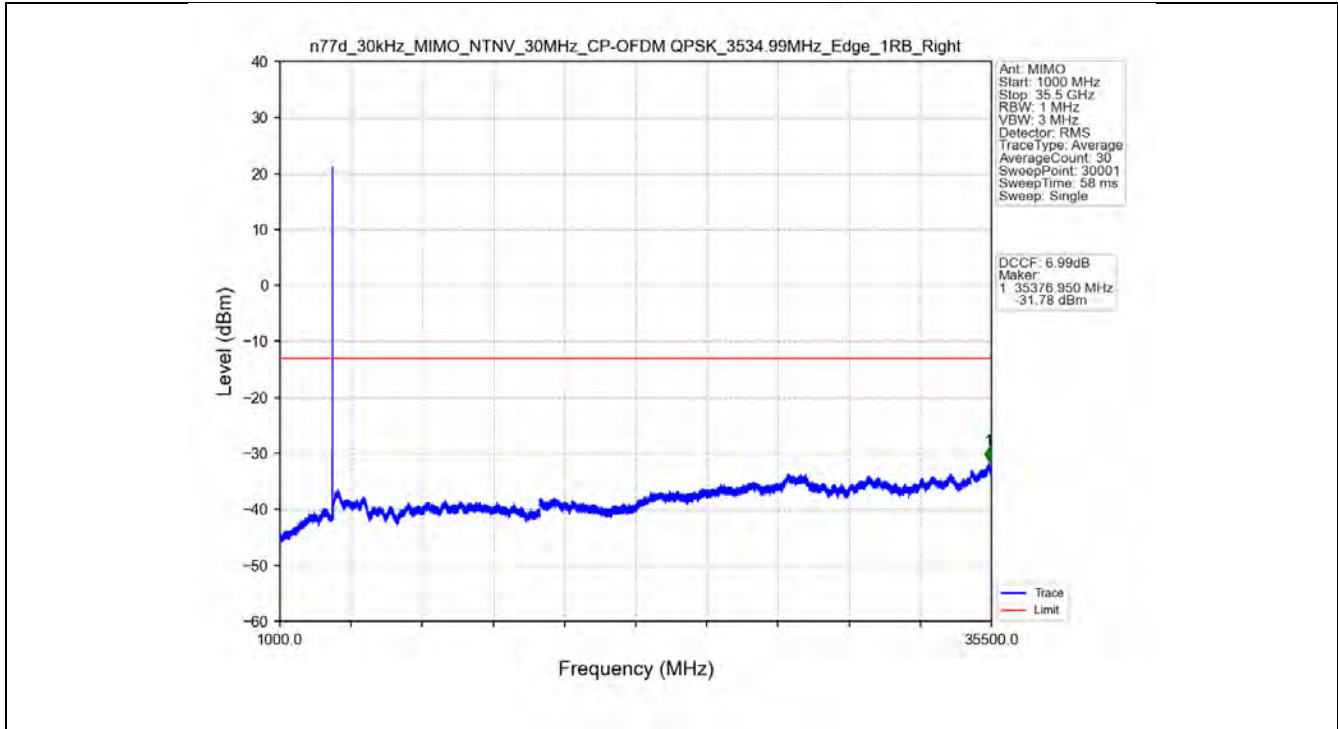


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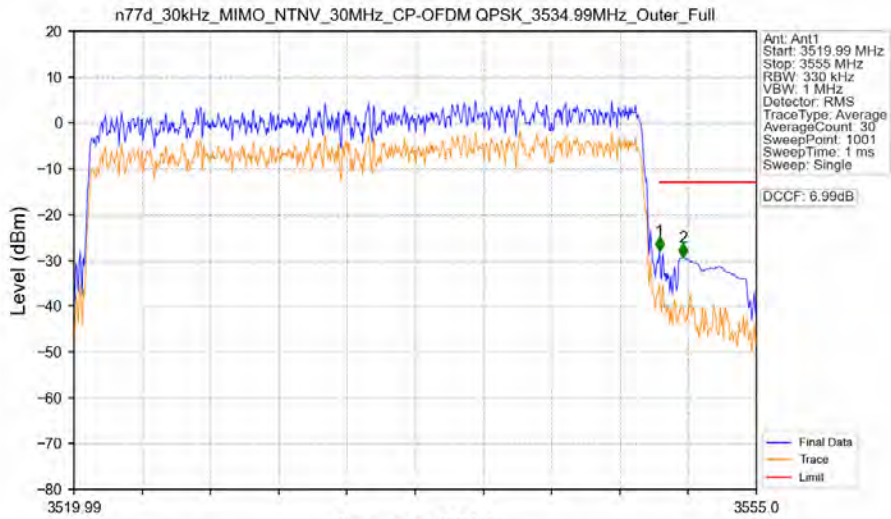
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n77d\_30kHz\_MIMO\_NTNV\_30MHz\_CP-OFDM QPSK\_3534.99MHz\_Outer\_Full



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 3519.99     | 3550       | 0.33      | /      | /         | /          | /           | /           | /      |
| 3550        | 3551       | 0.33      | /      | 1         | 3550.029   | -28.04      | -13         | Pass   |
| 3551        | 3555       | 1         | CHP    | 2         | 3551.254   | -29.43      | -13         | Pass   |

n77d\_30kHz\_MIMO\_NTNV\_30MHz\_CP-OFDM QPSK\_3534.99MHz\_Outer\_Full



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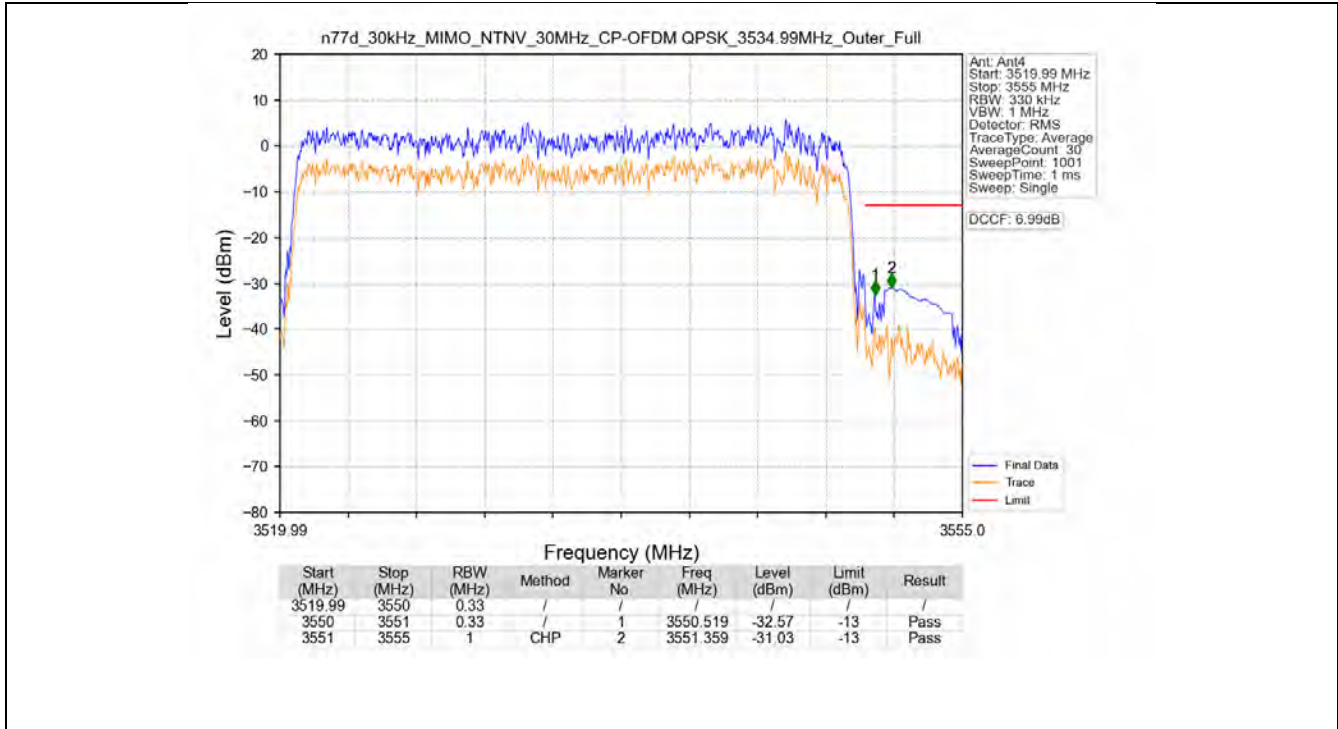


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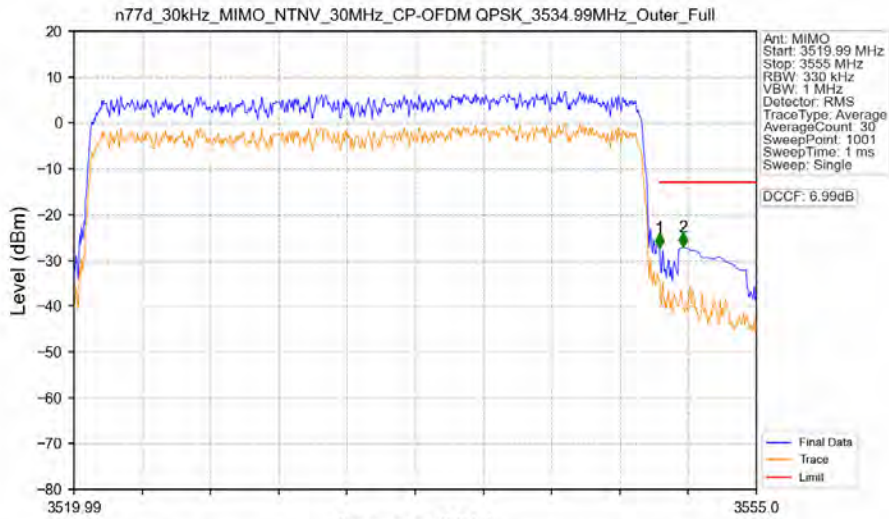
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| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 3519.99     | 3550       | 0.33      | /      | /         | /          | /           | /           | /      |
| 3550        | 3551       | 0.33      | /      | 1         | 3550.029   | -27.28      | -13         | Pass   |
| 3551        | 3555       | 1         | CHP    | 2         | 3551.254   | -27.16      | -13         | Pass   |

n77d\_30kHz\_MIMO\_NTNV\_30MHz\_CP-OFDM QPSK\_3534.99MHz\_Inner\_1RB\_Right



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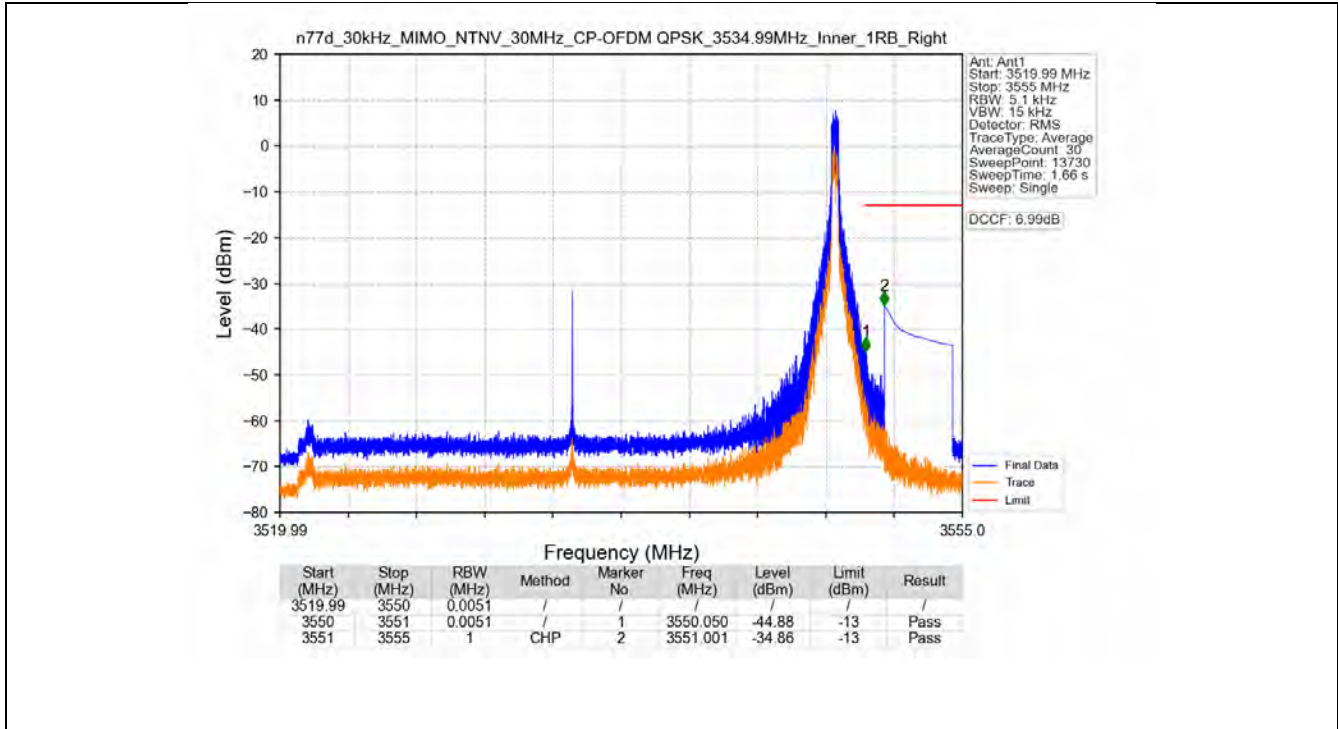


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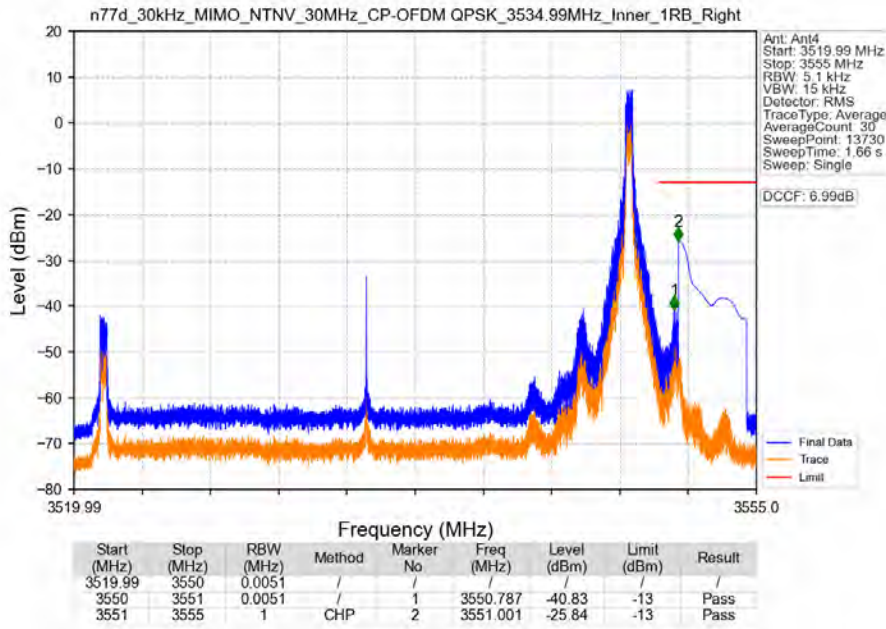
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n77d\_30kHz\_MIMO\_NTNV\_30MHz\_CP-OFDM QPSK\_3534.99MHz\_Inner\_1RB\_Right



n77d\_30kHz\_MIMO\_NTNV\_30MHz\_CP-OFDM QPSK\_3534.99MHz\_Inner\_1RB\_Right



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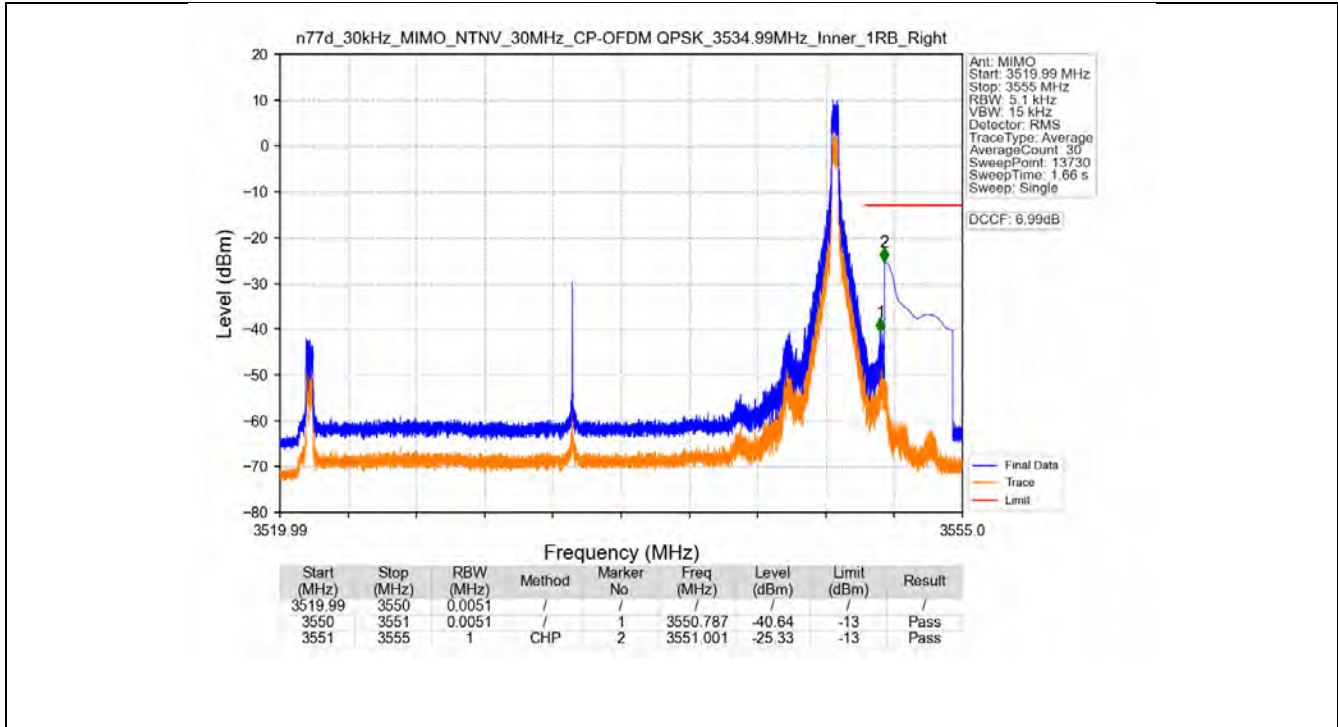


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## 5.9 30k\_MIMO\_40MHz\_NTNV

### 5.9.1 Test Result

| 5G NR n77d SCS=30kHz MIMO 40MHz NTNv |                 |                     |                     |      |      |         |
|--------------------------------------|-----------------|---------------------|---------------------|------|------|---------|
| Modulation                           | Frequency (MHz) | RB Allocation       | Spurious Emission   |      |      | Verdict |
|                                      |                 |                     | Ant1                | Ant4 | Sum  |         |
| CP-OFDM<br>QPSK                      | 3470.01         | Edge_1RB_Left       | Refer To Test Graph |      |      | Pass    |
|                                      |                 |                     | Refer To Test Graph |      |      | Pass    |
|                                      |                 |                     | Refer To Test Graph |      |      | Pass    |
|                                      |                 | Outer_Full          | Refer To Test Graph |      |      | Pass    |
|                                      |                 |                     | Refer To Test Graph |      |      | Pass    |
|                                      |                 |                     | Refer To Test Graph |      |      | Pass    |
|                                      | 3529.98         | Inner_1RB_Left      | Refer To Test Graph |      |      | Pass    |
|                                      |                 |                     | Refer To Test Graph |      |      | Pass    |
|                                      |                 |                     | Refer To Test Graph |      |      | Pass    |
|                                      |                 | Edge_1RB_Right      | Refer To Test Graph |      |      | Pass    |
|                                      |                 |                     | Refer To Test Graph |      |      | Pass    |
|                                      |                 |                     | Refer To Test Graph |      |      | Pass    |
|                                      | Outer_Full      | Refer To Test Graph |                     |      | Pass |         |
|                                      |                 | Refer To Test Graph |                     |      | Pass |         |
|                                      |                 | Refer To Test Graph |                     |      | Pass |         |
|                                      | Inner_1RB_Right | Refer To Test Graph |                     |      | Pass |         |
| Refer To Test Graph                  |                 |                     | Pass                |      |      |         |



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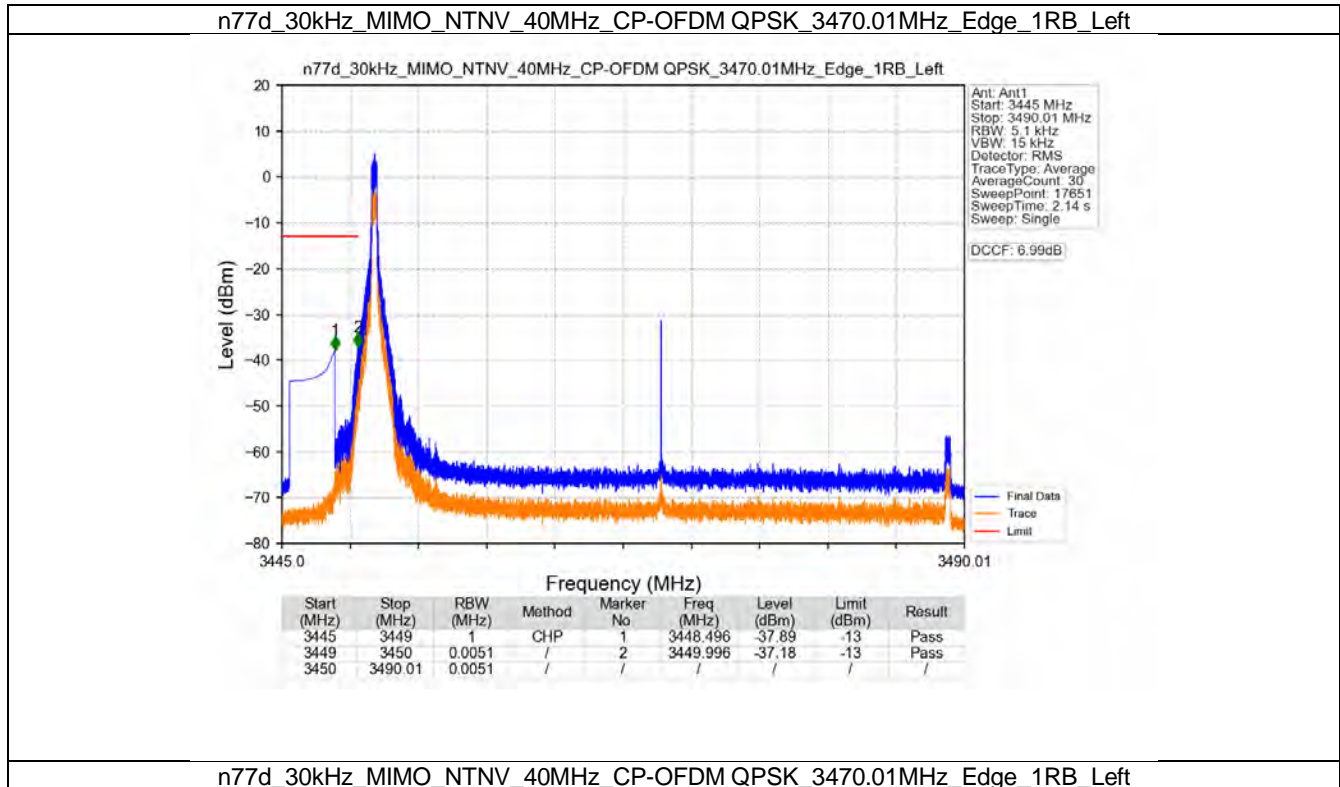
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5.9.2 Test Graph



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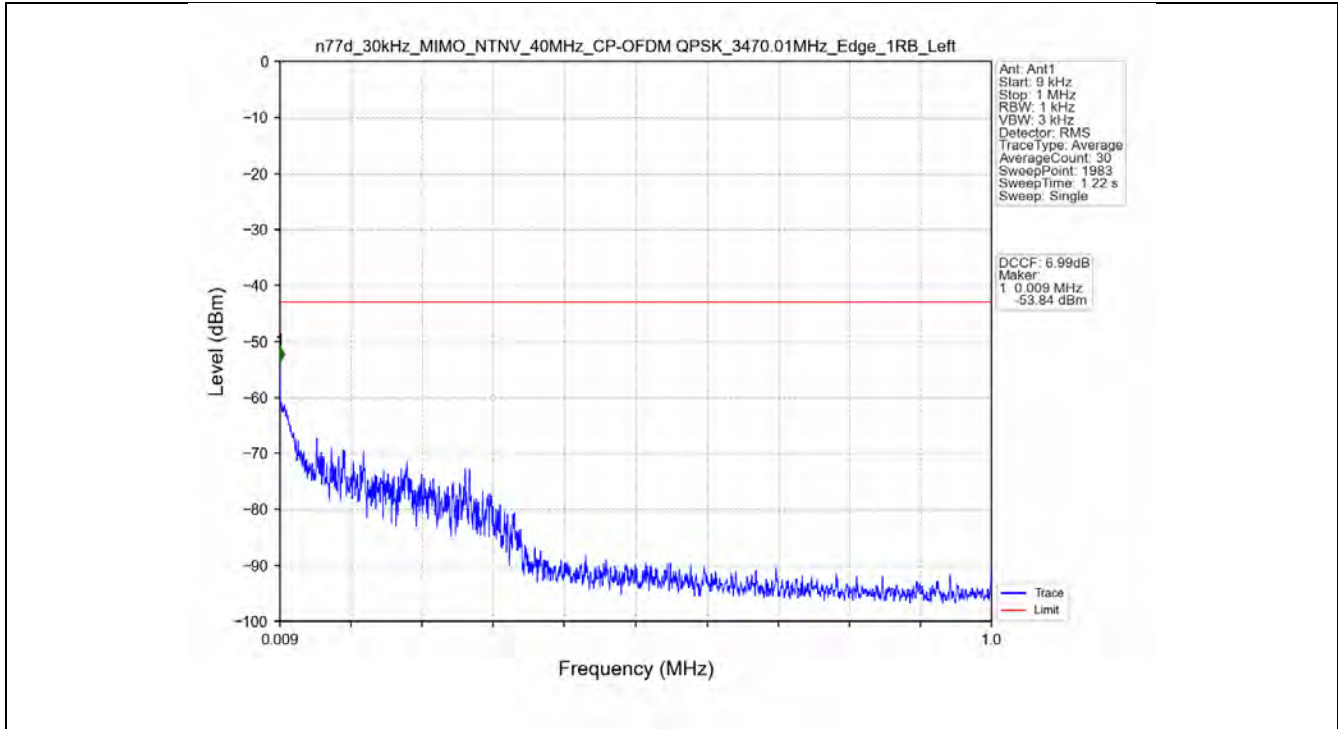


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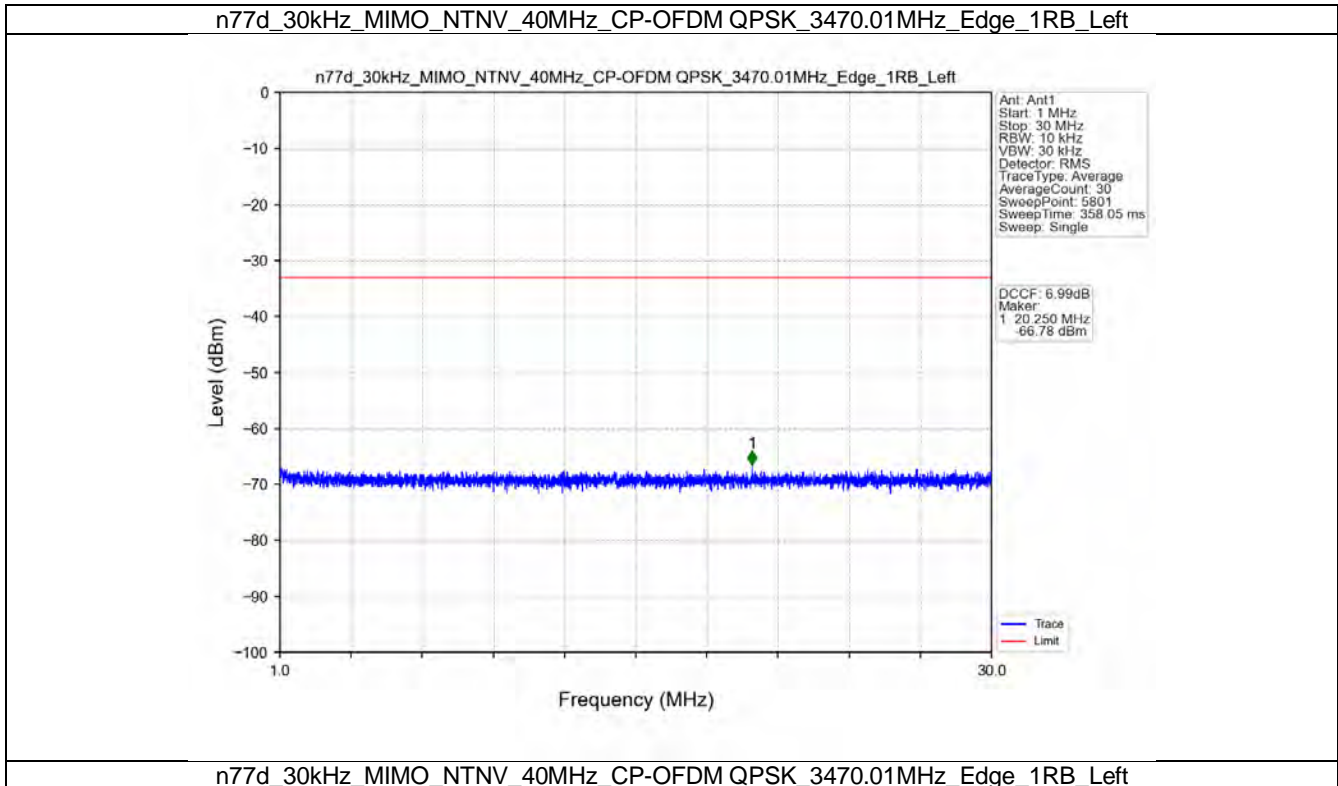


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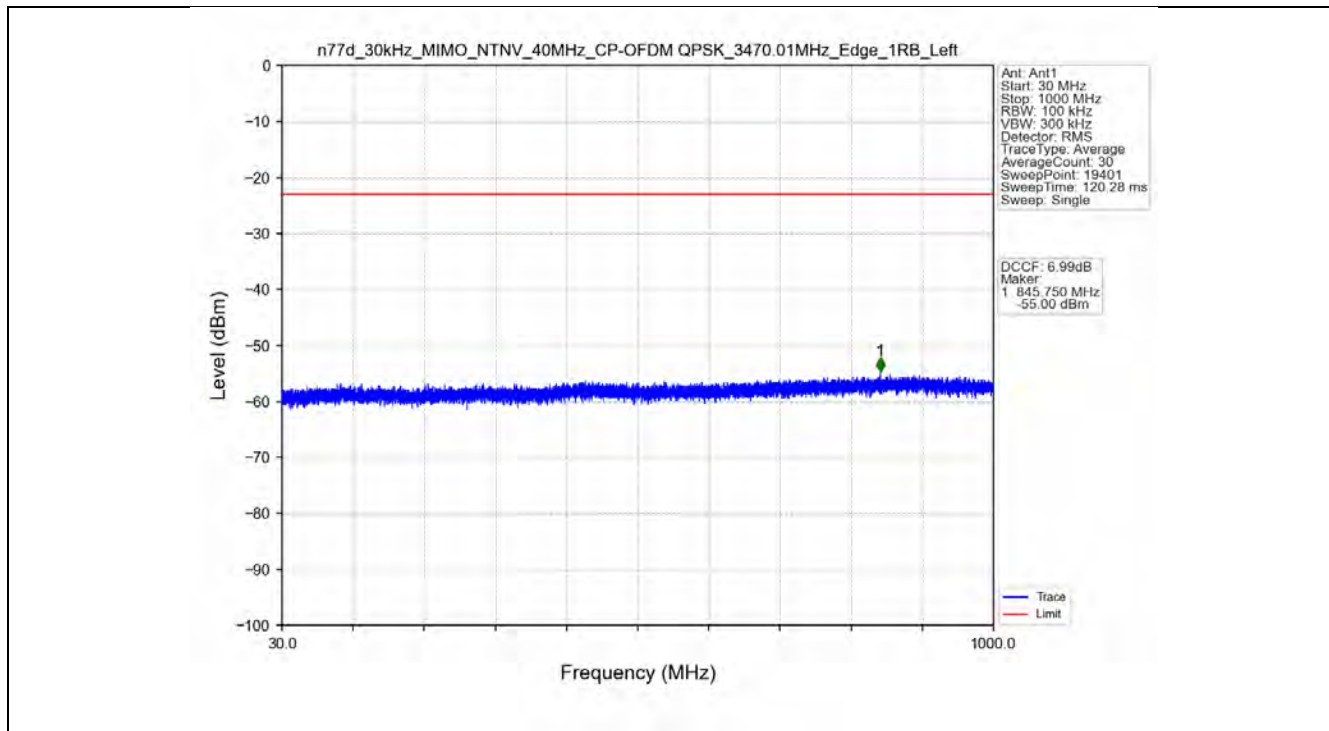
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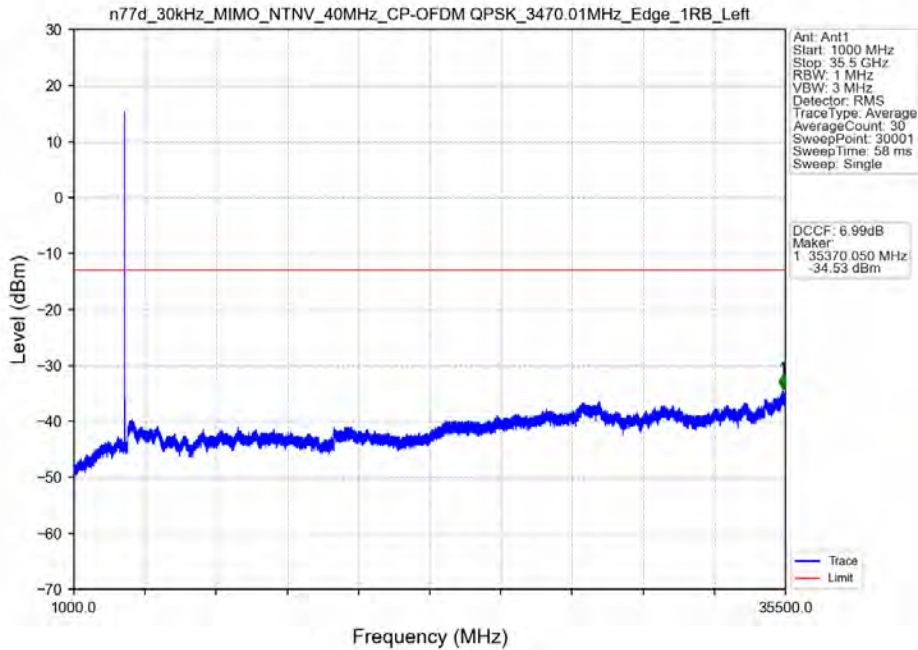
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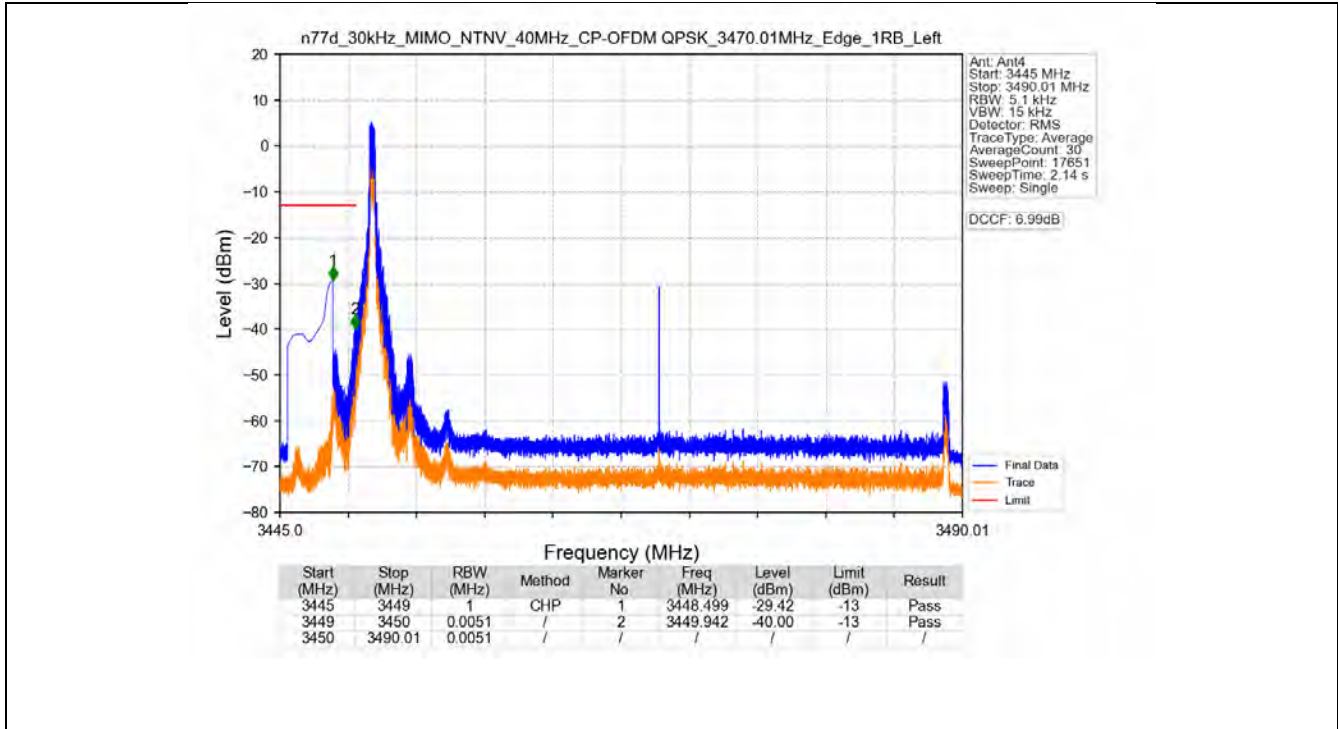


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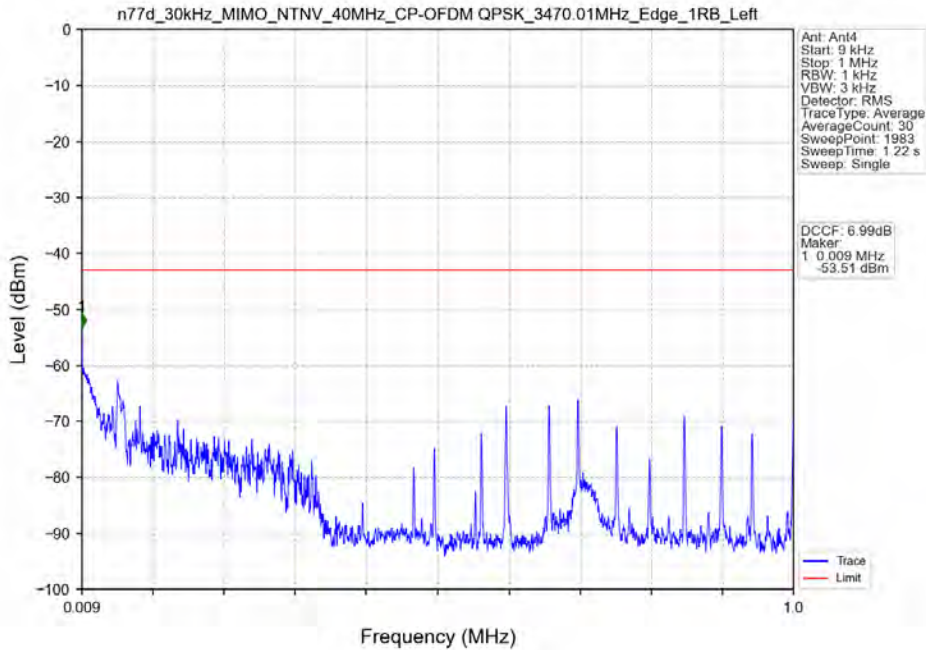
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n77d\_30kHz\_MIMO\_NTNV\_40MHz\_CP-OFDM QPSK\_3470.01MHz\_Edge\_1RB\_Left



n77d\_30kHz\_MIMO\_NTNV\_40MHz\_CP-OFDM QPSK\_3470.01MHz\_Edge\_1RB\_Left



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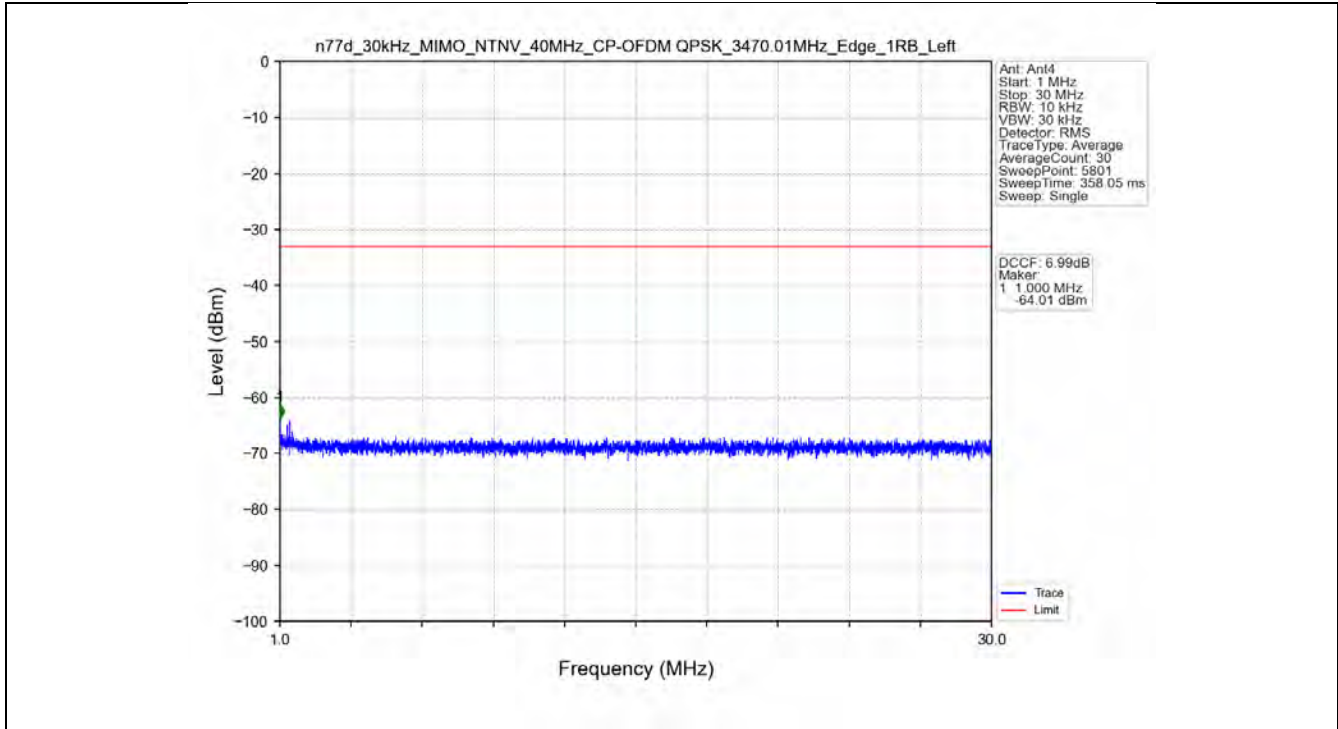


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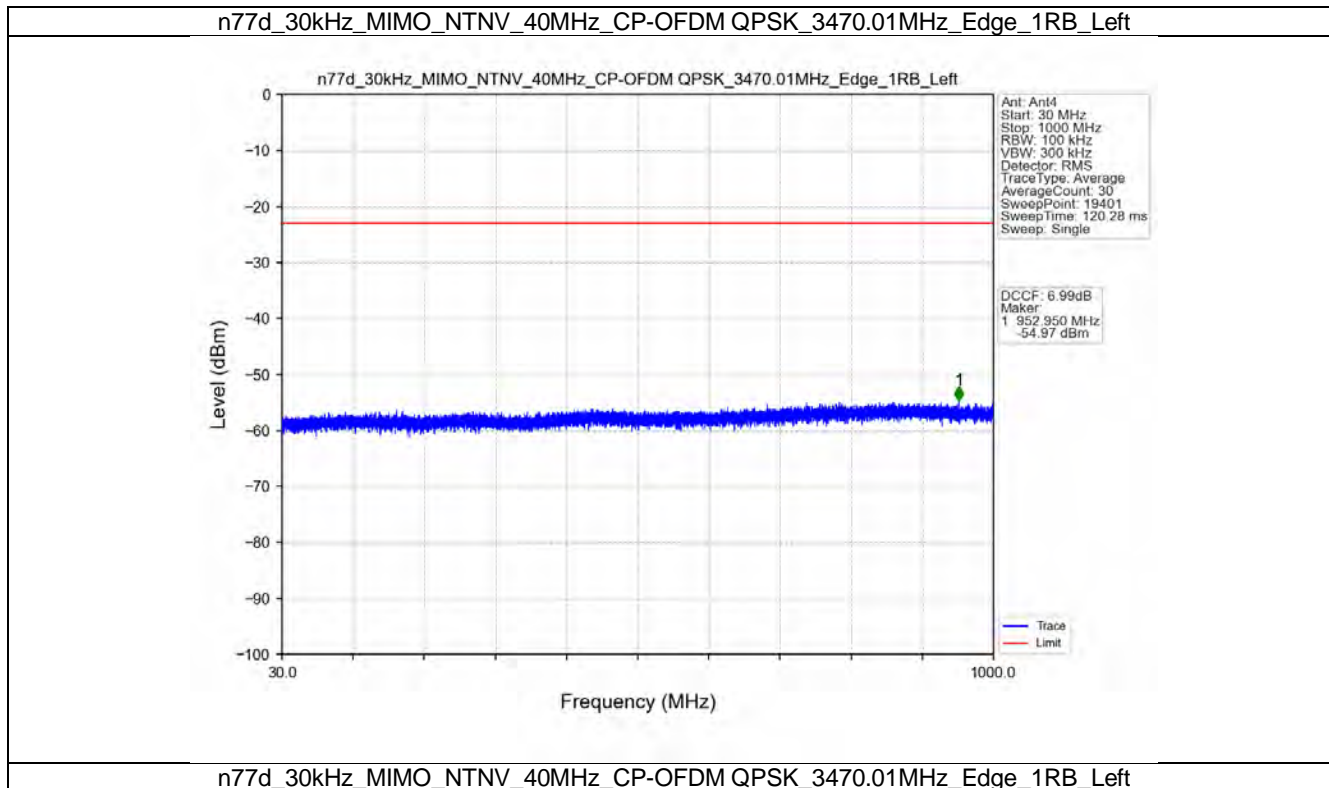
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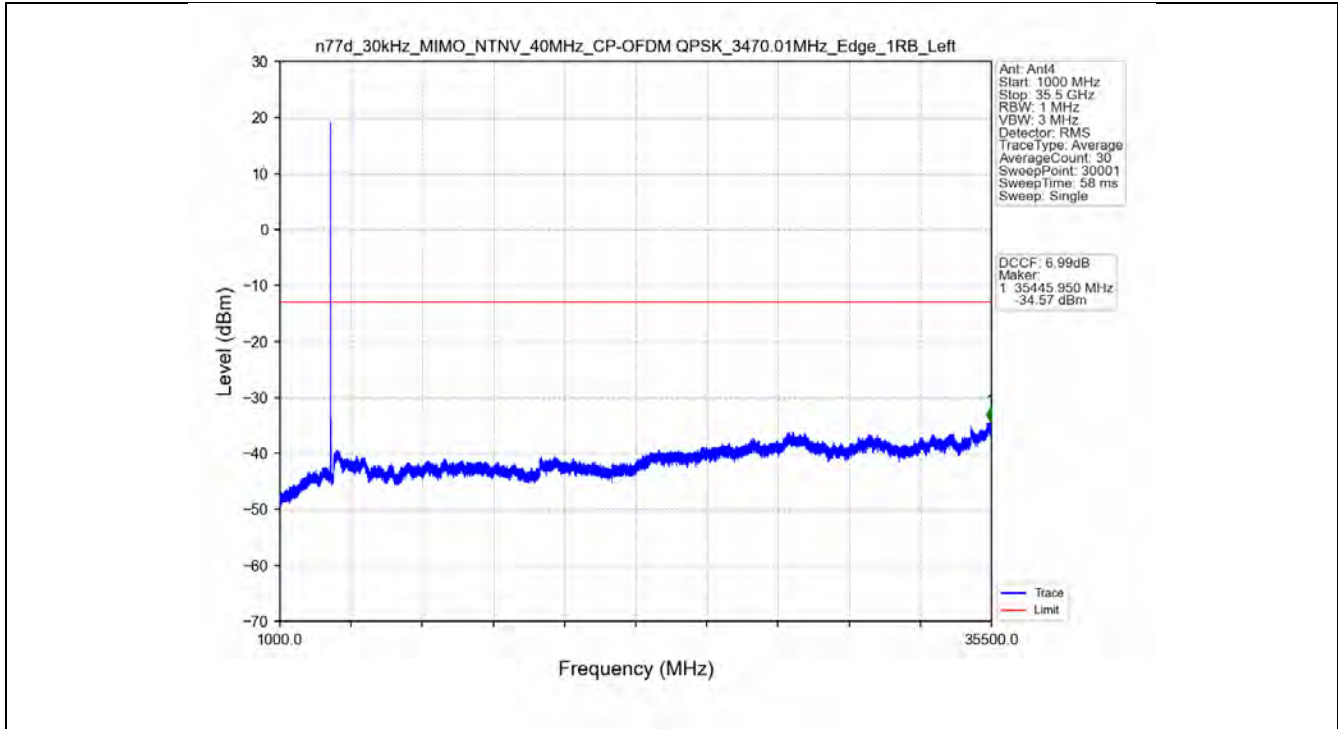


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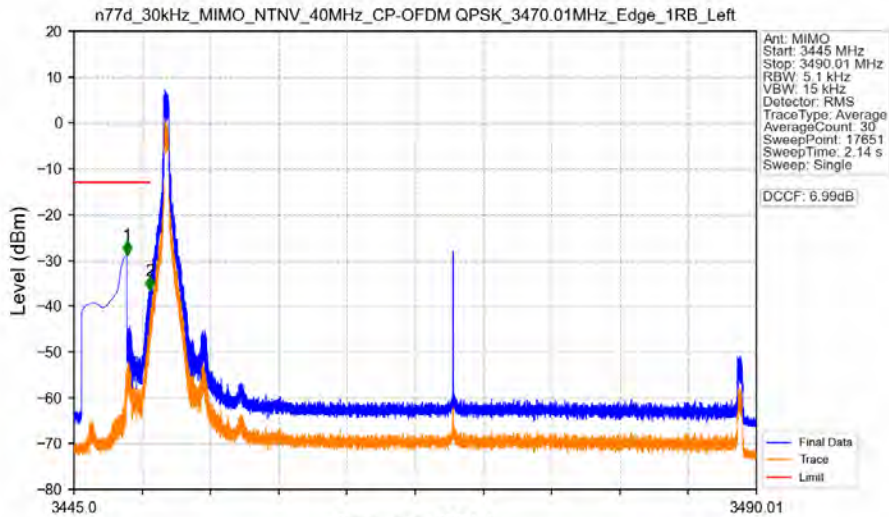
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n77d\_30kHz\_MIMO\_NTNV\_40MHz\_CP-OFDM QPSK\_3470.01MHz\_Edge\_1RB\_Left



n77d\_30kHz\_MIMO\_NTNV\_40MHz\_CP-OFDM QPSK\_3470.01MHz\_Edge\_1RB\_Left



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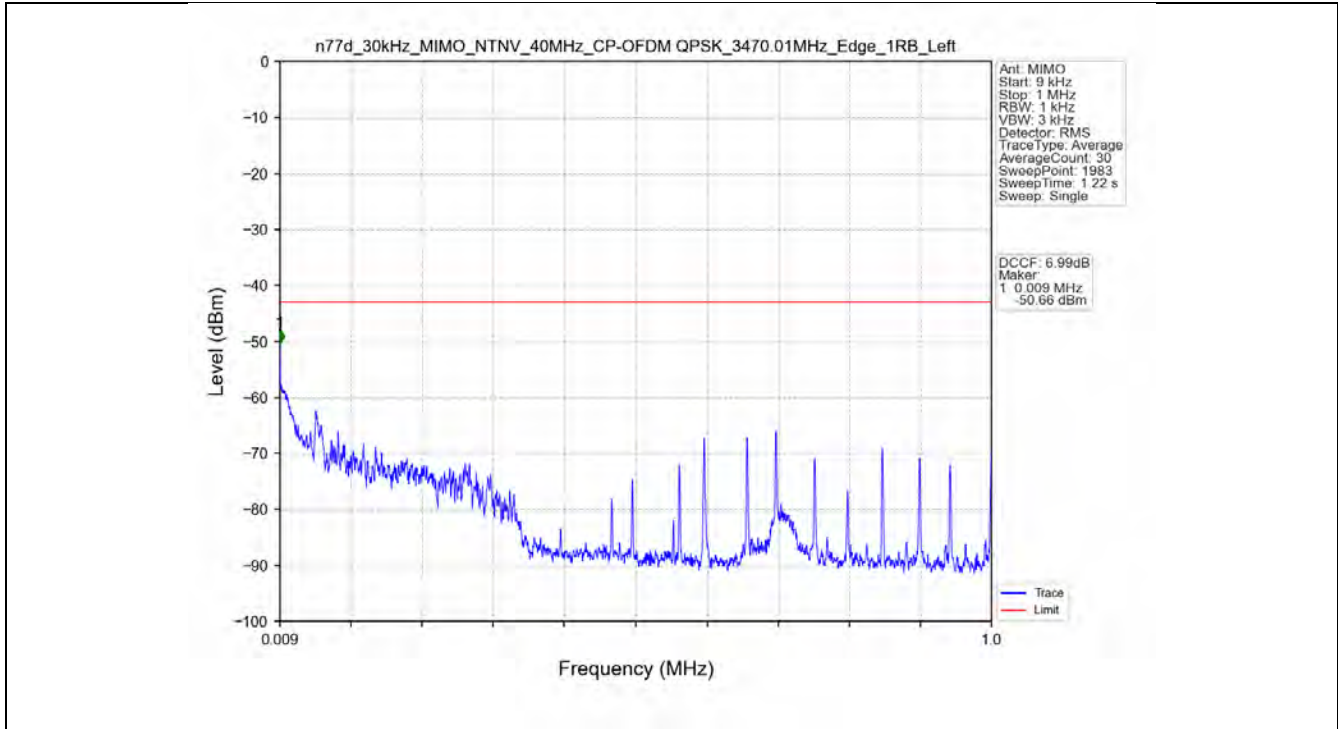


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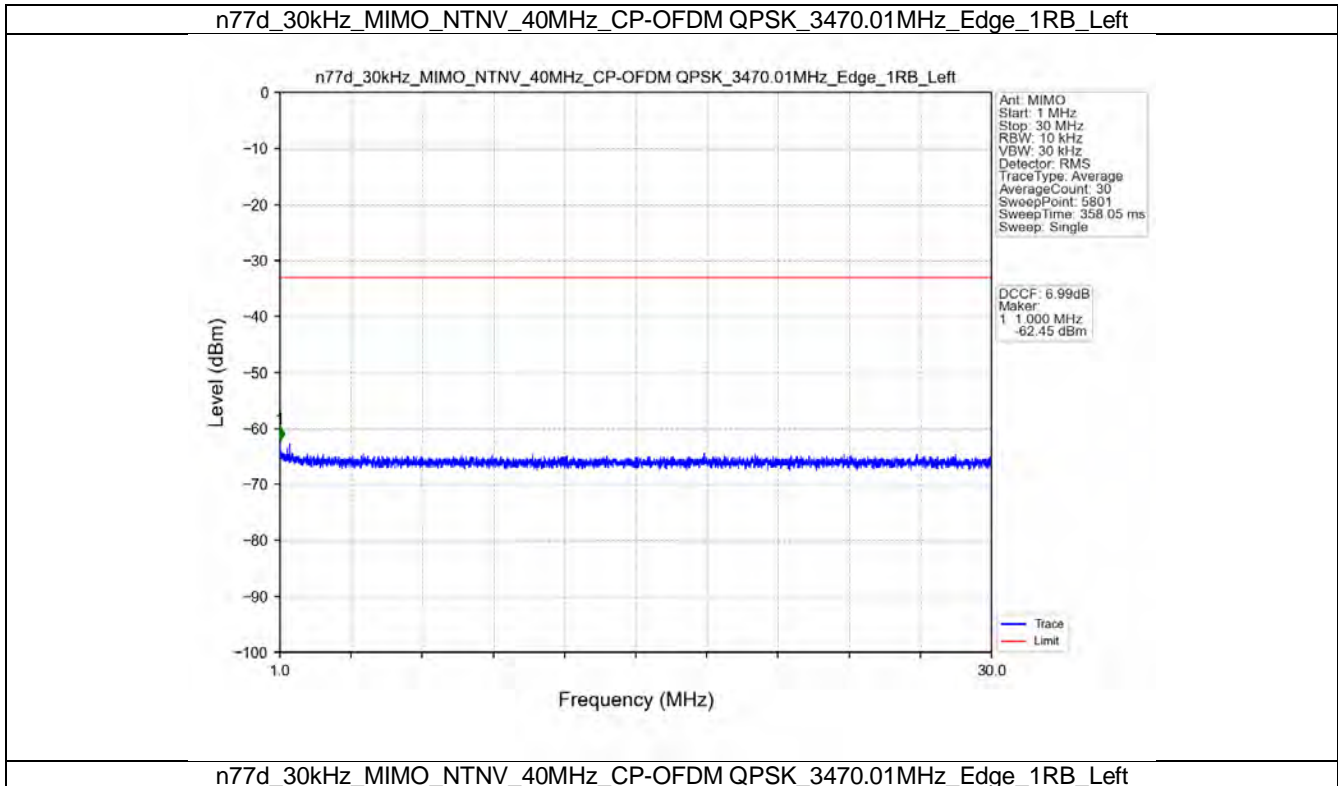


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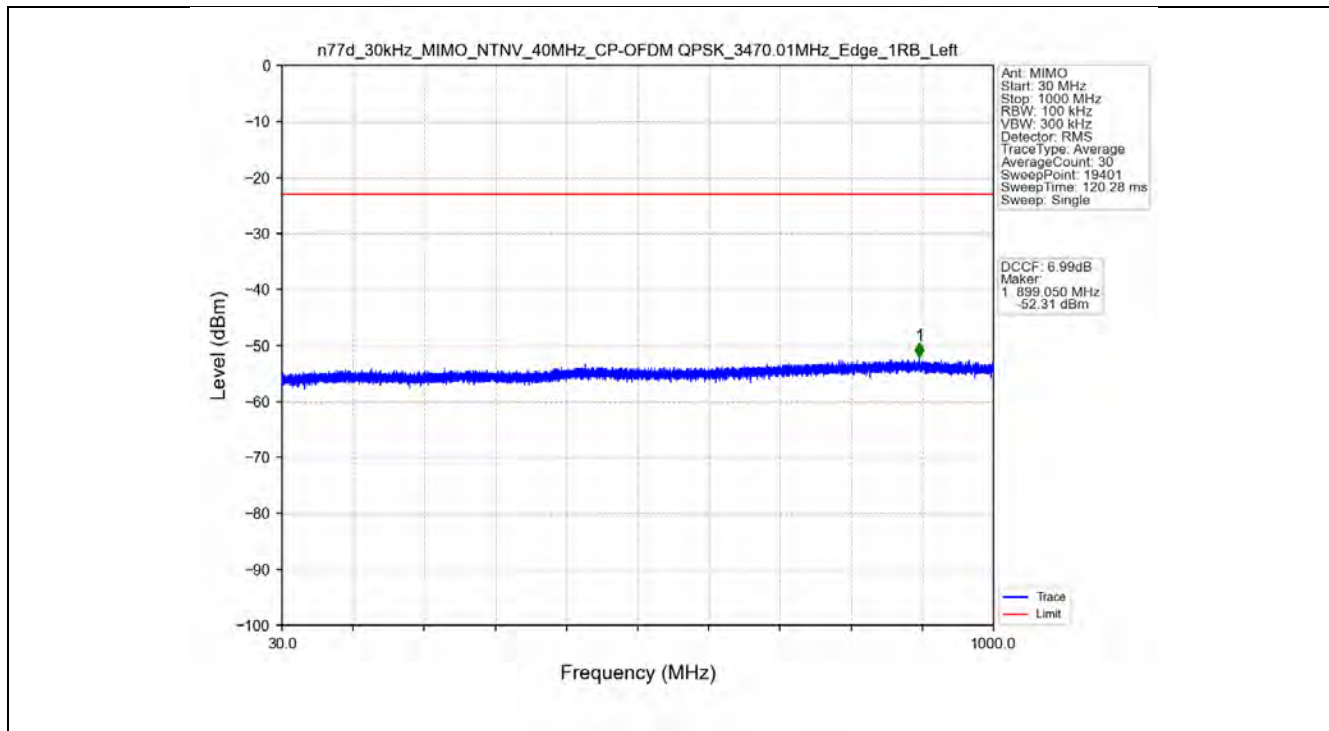
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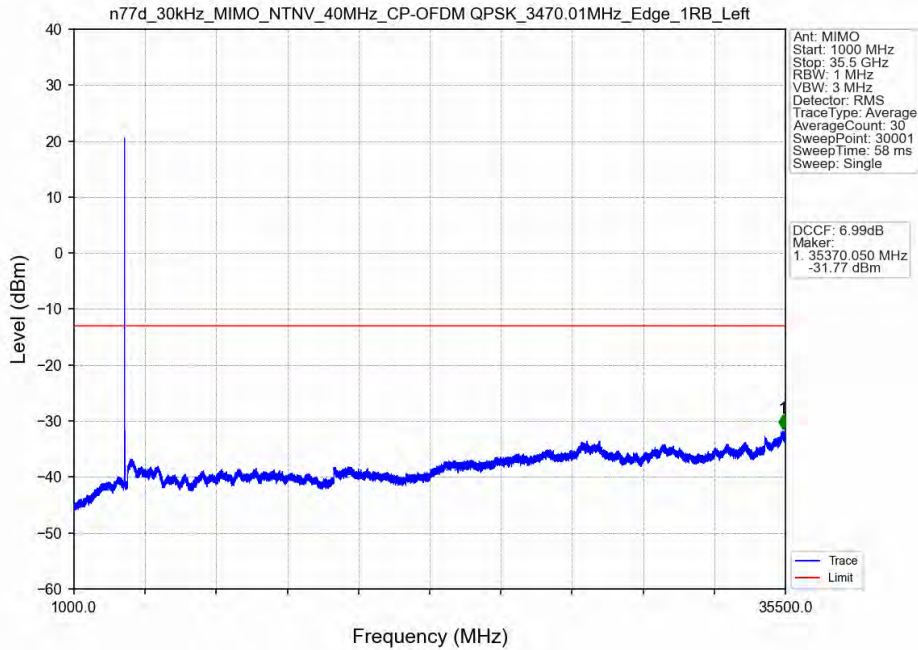
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n77d\_30kHz\_MIMO\_NTNV\_40MHz\_CP-OFDM QPSK\_3470.01MHz\_Edge\_1RB\_Left



n77d\_30kHz\_MIMO\_NTNV\_40MHz\_CP-OFDM QPSK\_3470.01MHz\_Outer\_Full



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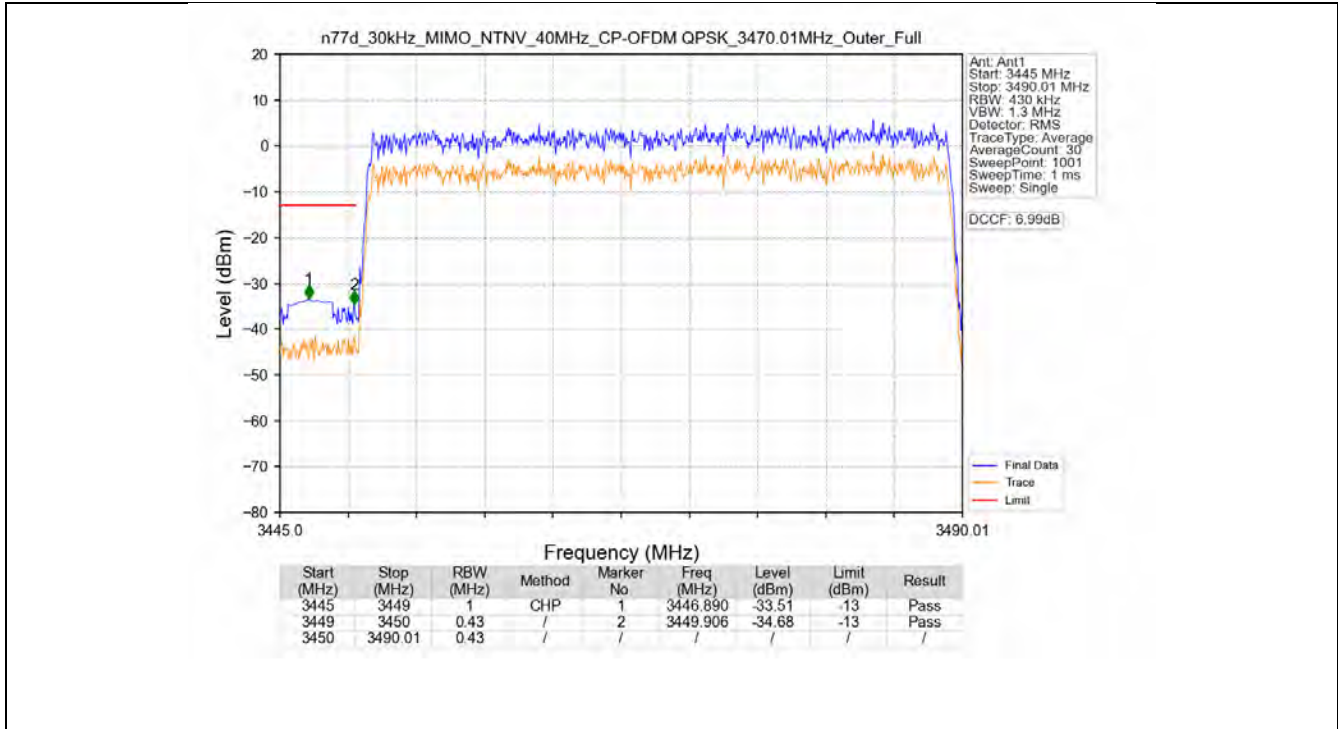


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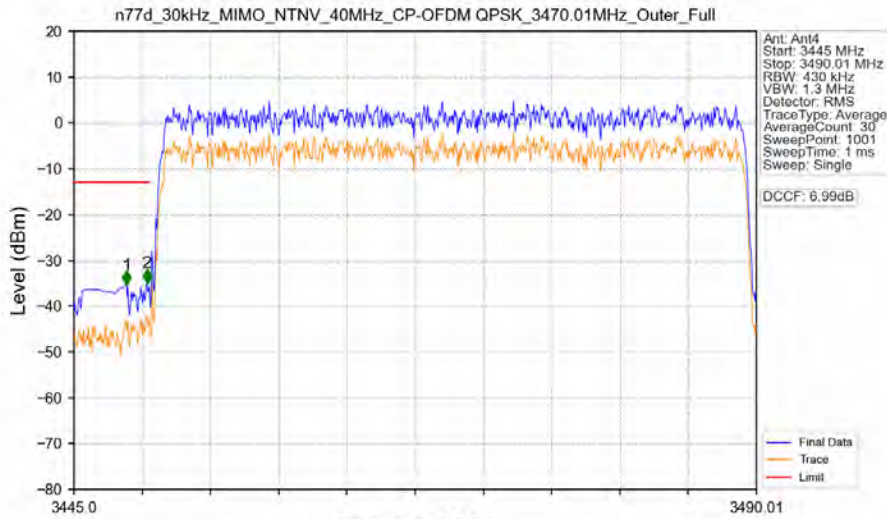
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n77d\_30kHz\_MIMO\_NTNV\_40MHz\_CP-OFDM\_QPSK\_3470.01MHz\_Outer\_Full



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 3445        | 3449       | 1         | CHP    | 1         | 3448.466   | -35.37      | -13         | Pass   |
| 3449        | 3450       | 0.43      | /      | 2         | 3449.816   | -34.95      | -13         | Pass   |
| 3450        | 3490.01    | 0.43      | /      | /         | /          | /           | /           | /      |

n77d\_30kHz\_MIMO\_NTNV\_40MHz\_CP-OFDM\_QPSK\_3470.01MHz\_Outer\_Full



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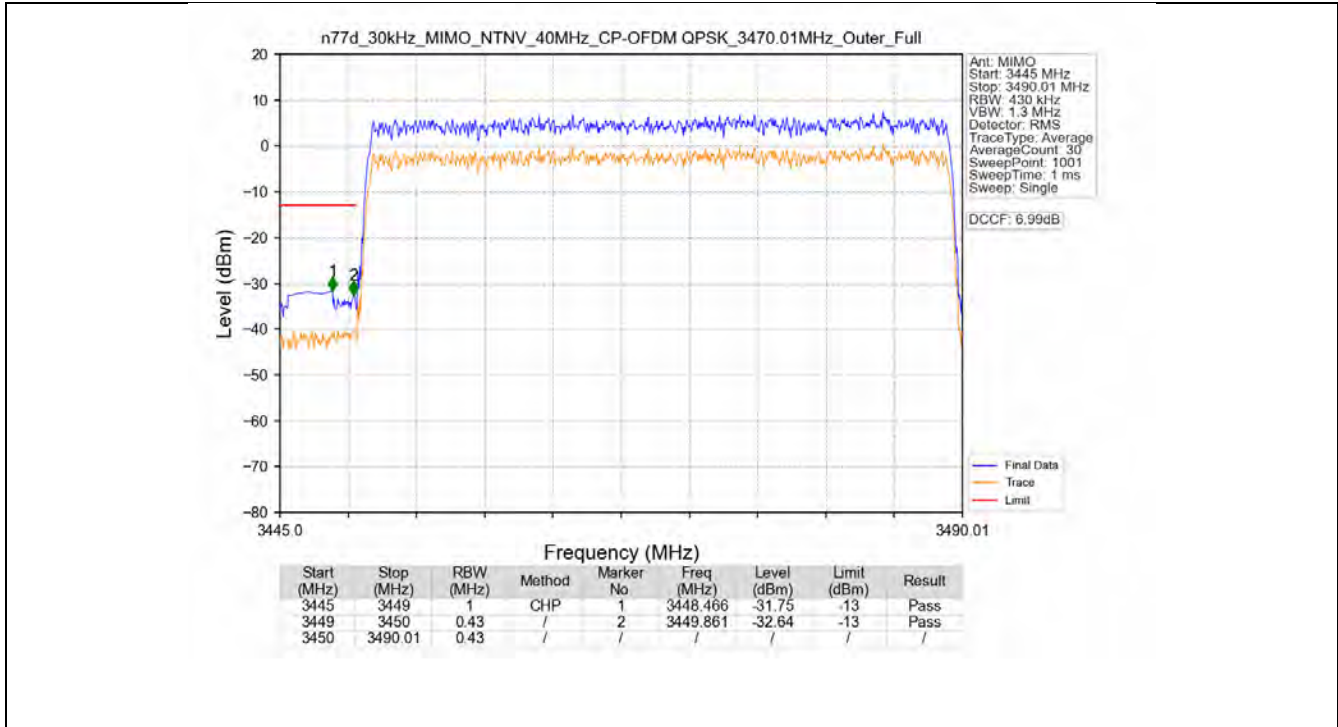


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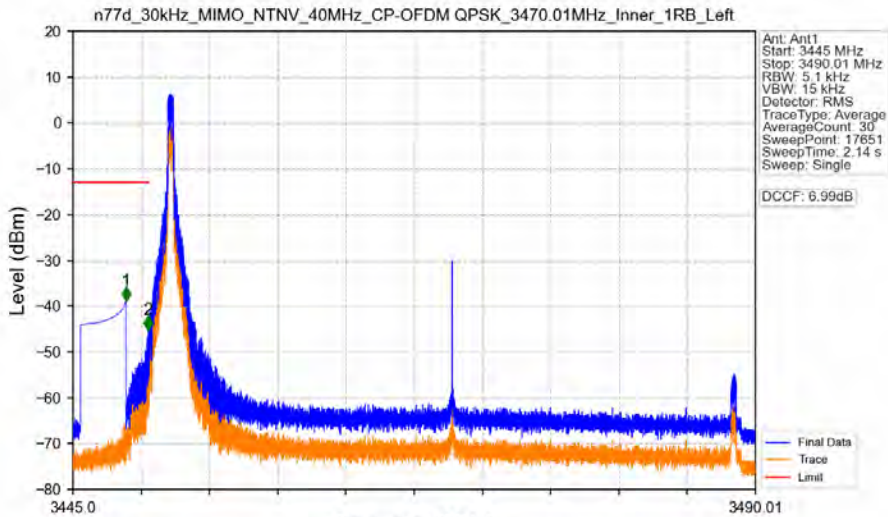
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n77d\_30kHz\_MIMO\_NTNV\_40MHz\_CP-OFDM QPSK\_3470.01MHz\_Inner\_1RB\_Left



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 3445        | 3449       | 1         | CHP    | 1         | 3448.499   | -38.83      | -13         | Pass   |
| 3449        | 3450       | 0.0051    | /      | 2         | 3449.963   | -45.19      | -13         | Pass   |
| 3450        | 3490.01    | 0.0051    | /      | /         | /          | /           | /           | /      |

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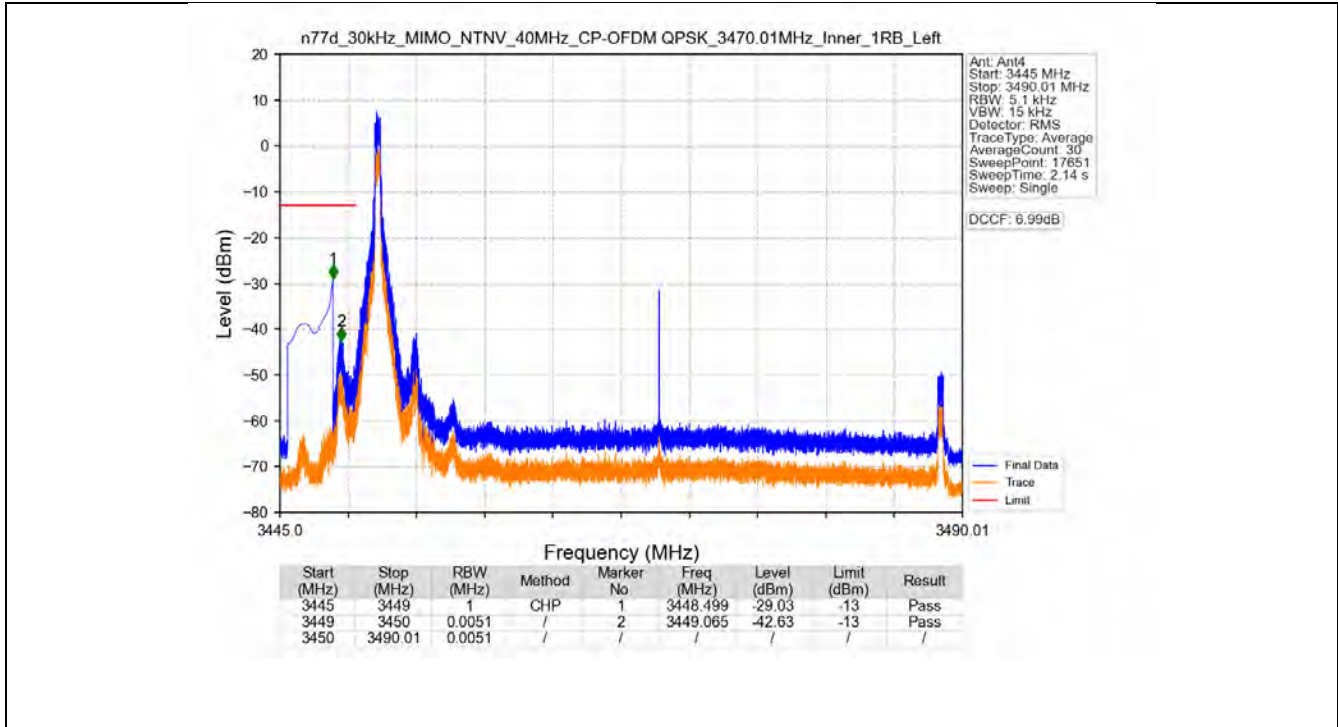


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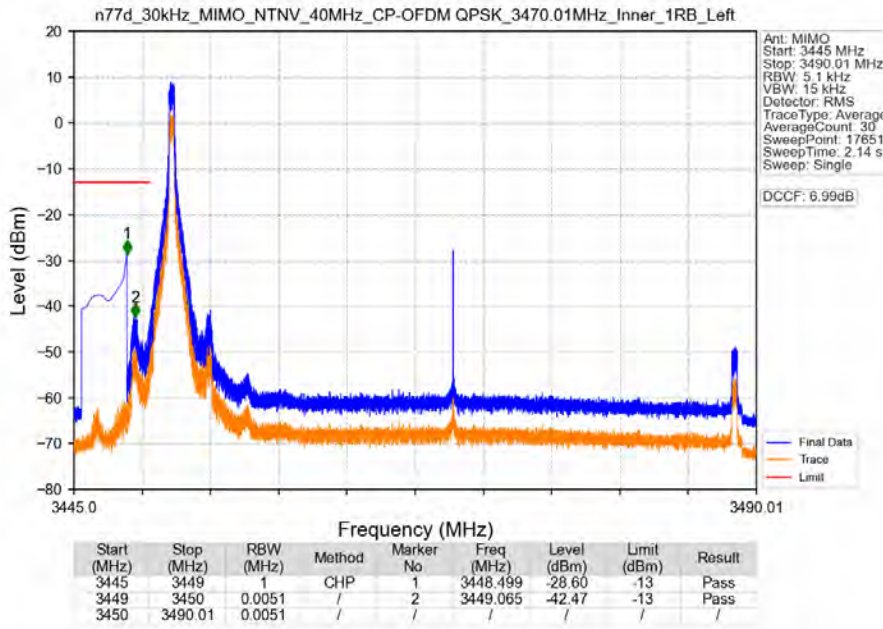
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n77d\_30kHz\_MIMO\_NTNV\_40MHz\_CP-OFDM QPSK\_3529.98MHz\_Edge\_1RB\_Right



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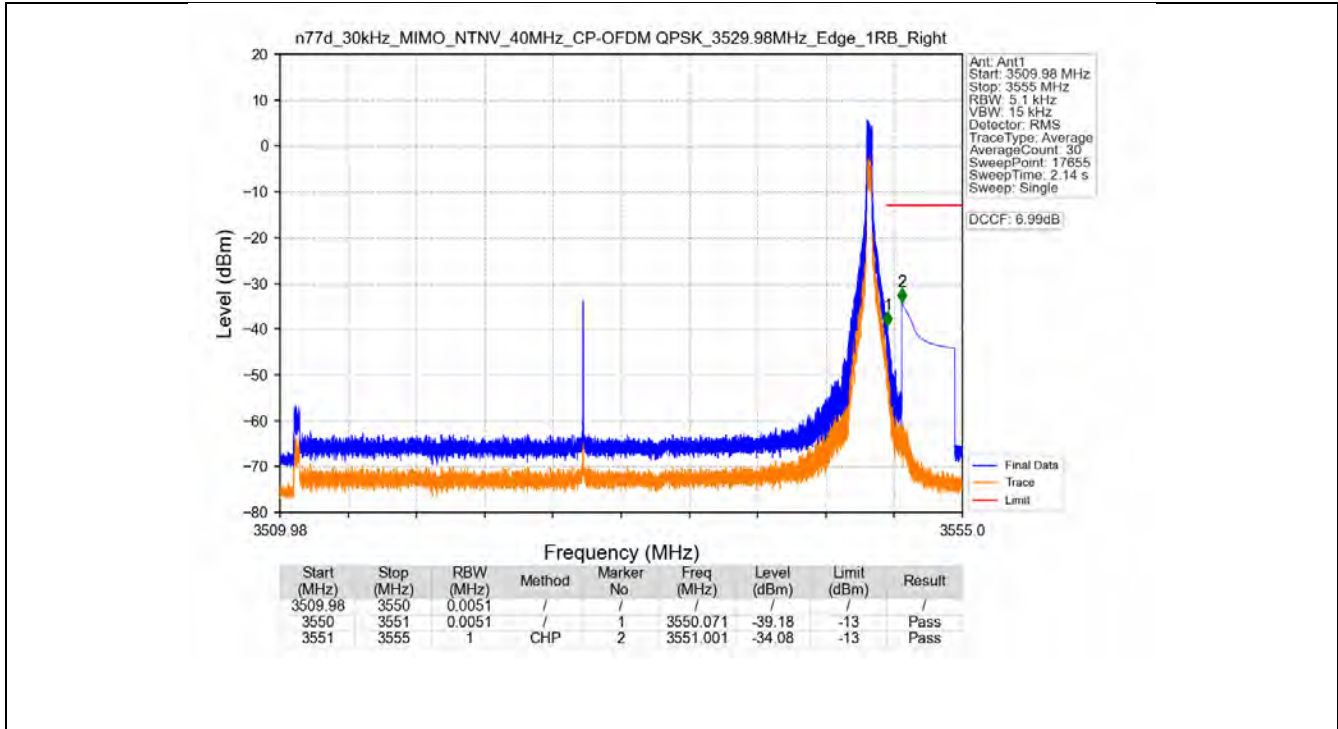


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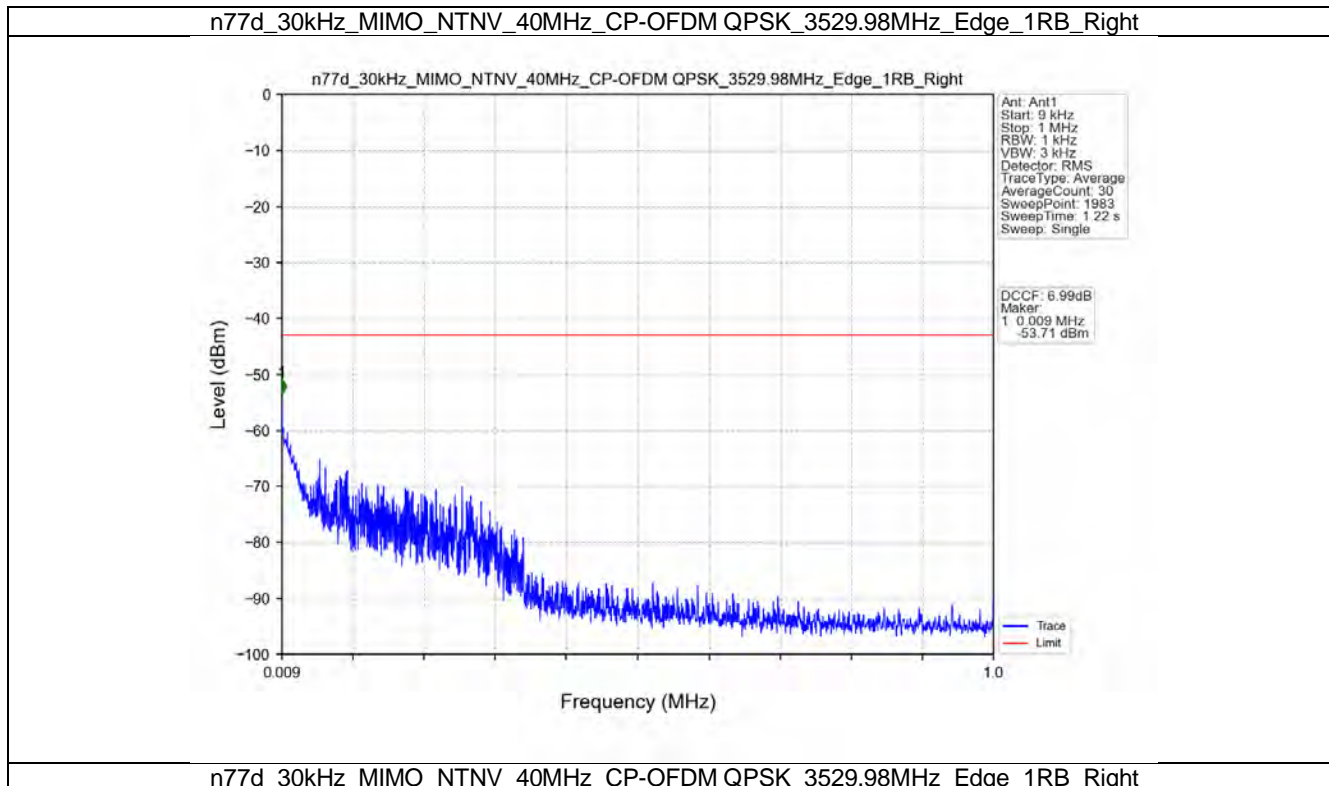
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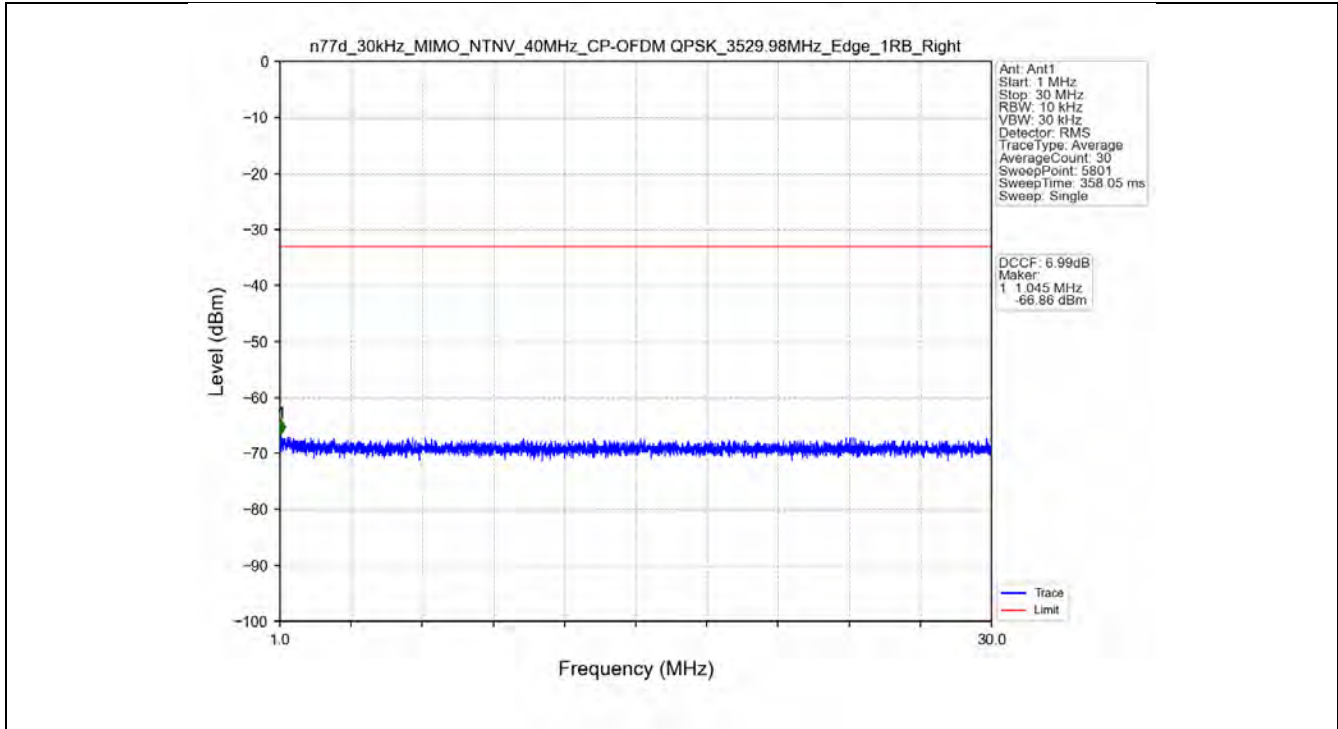


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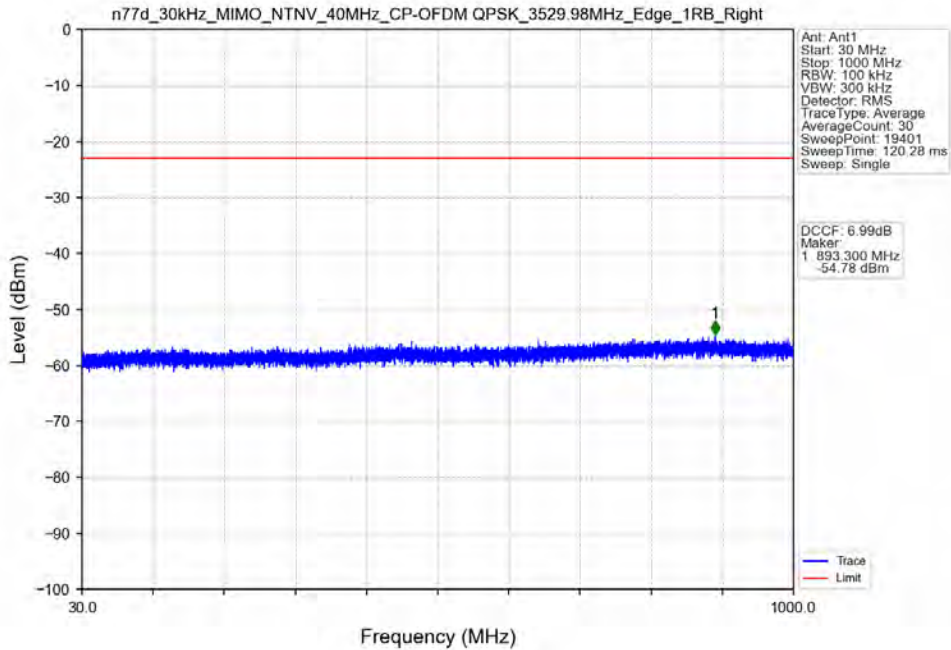
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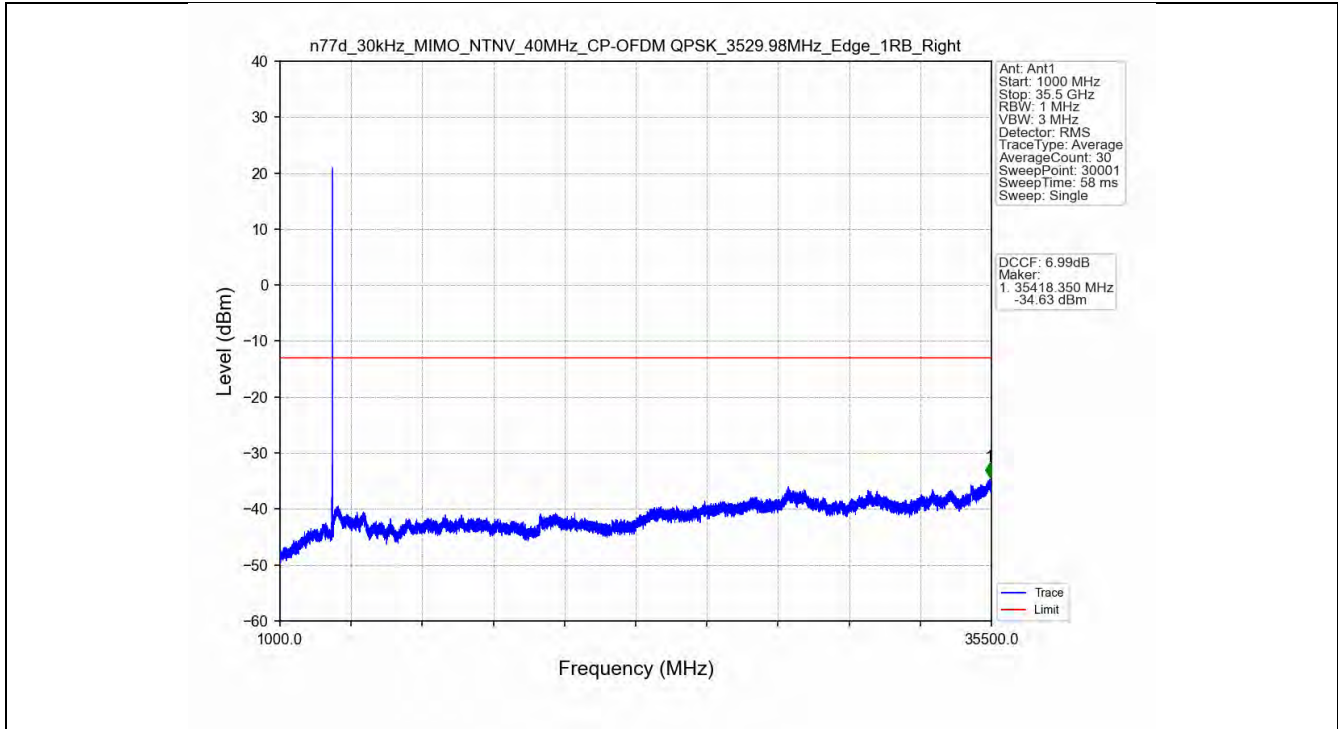


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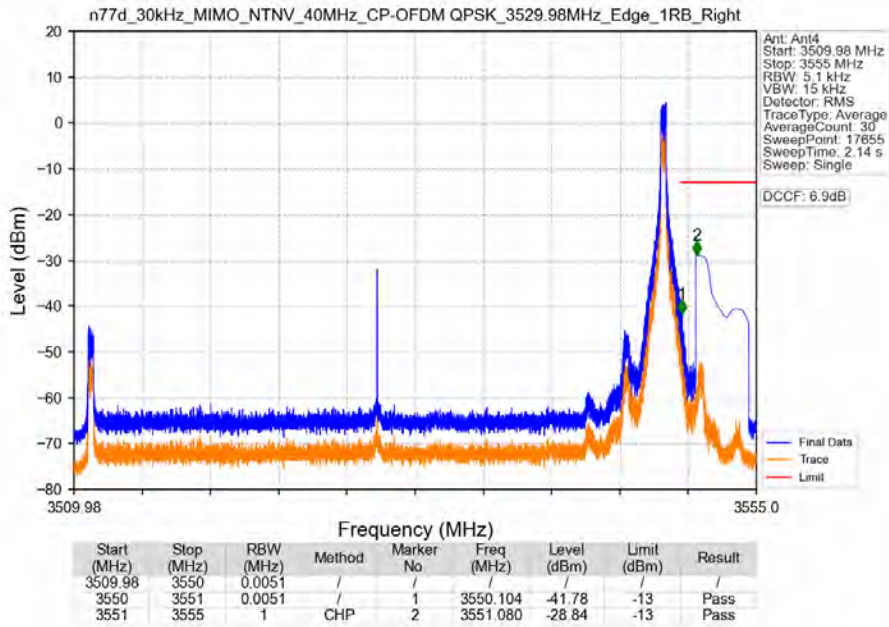
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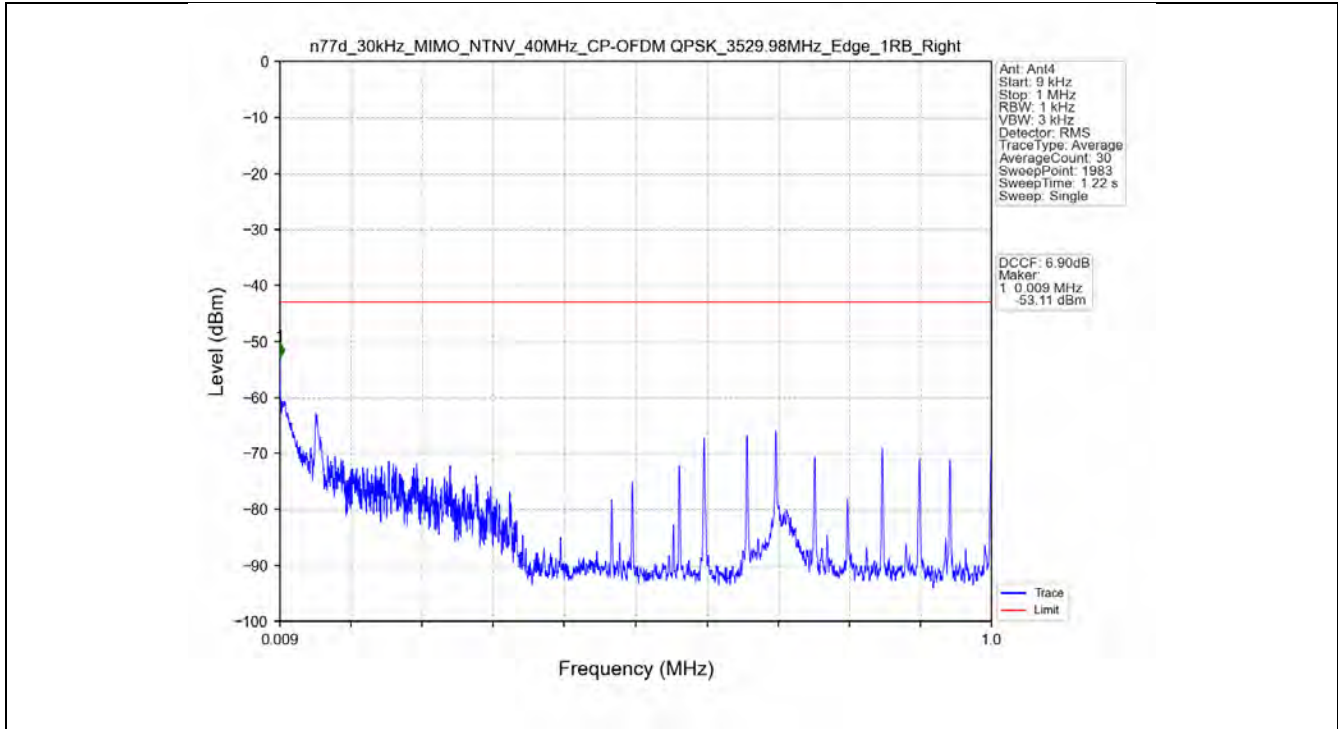


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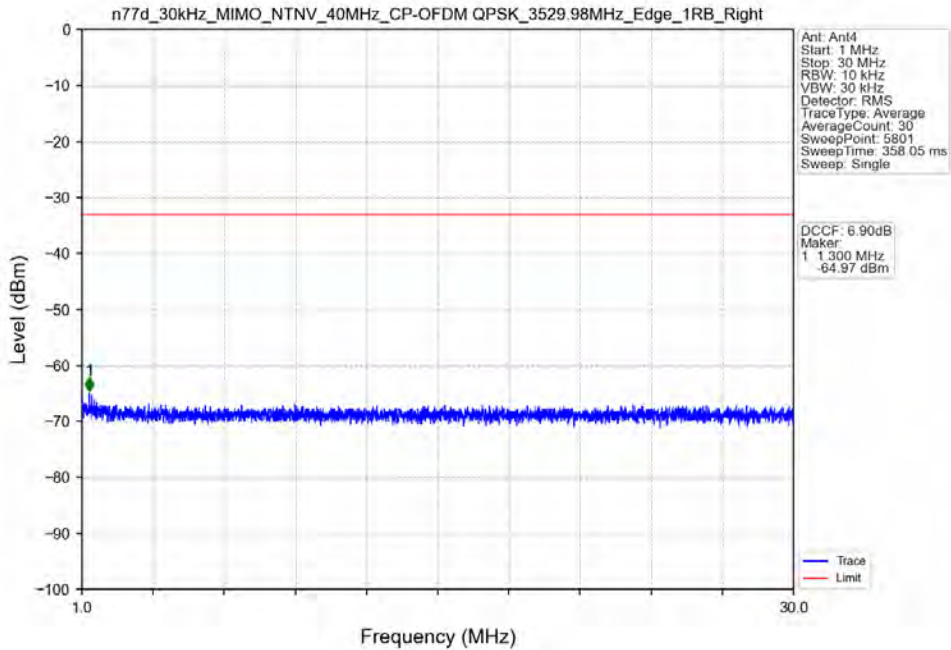
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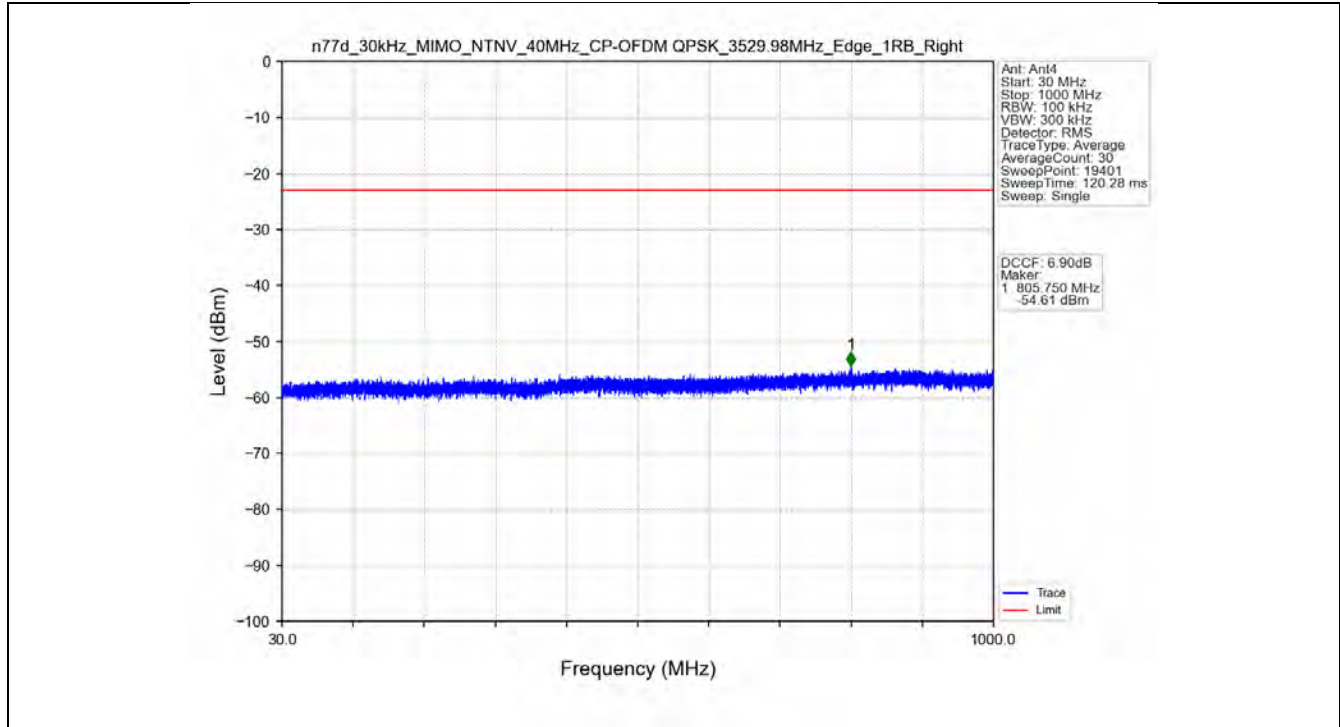


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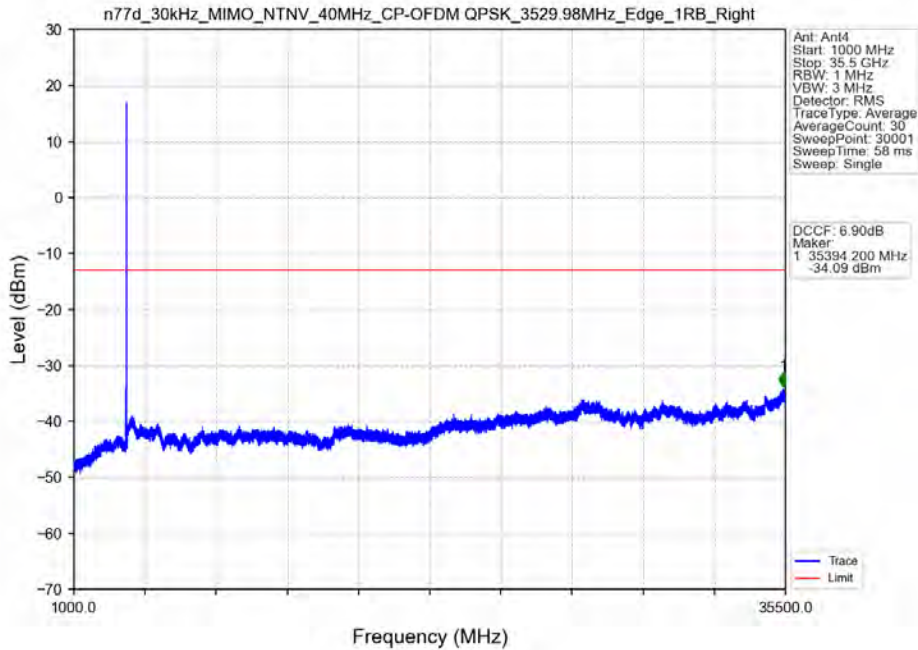
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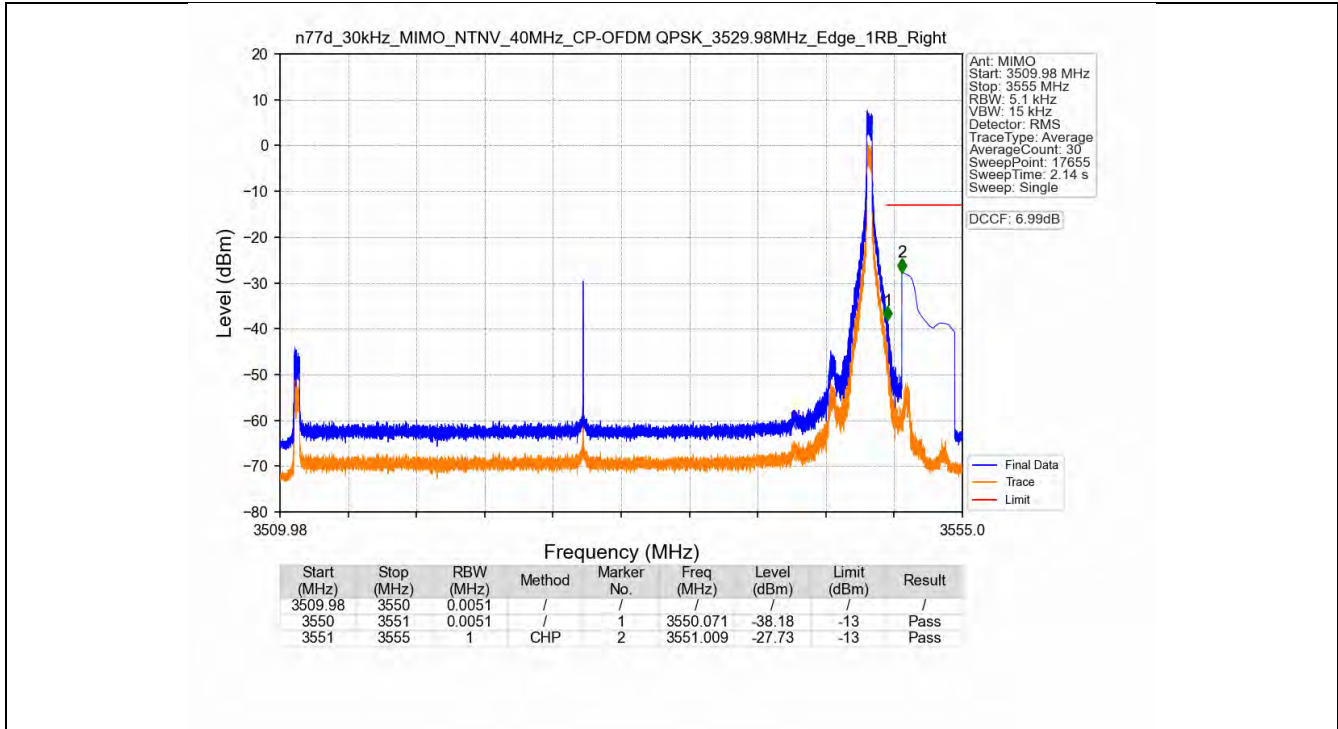


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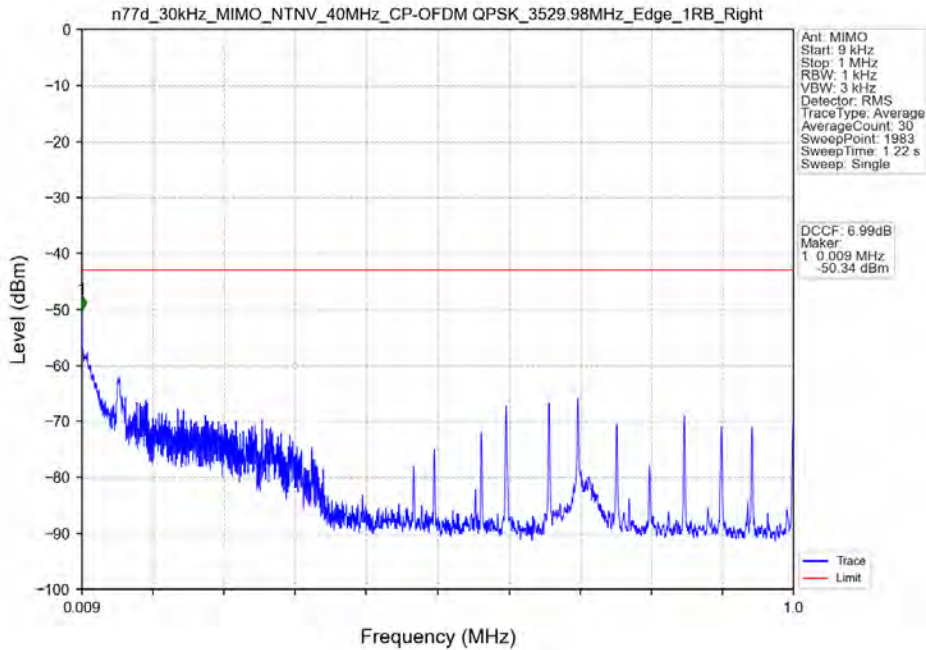
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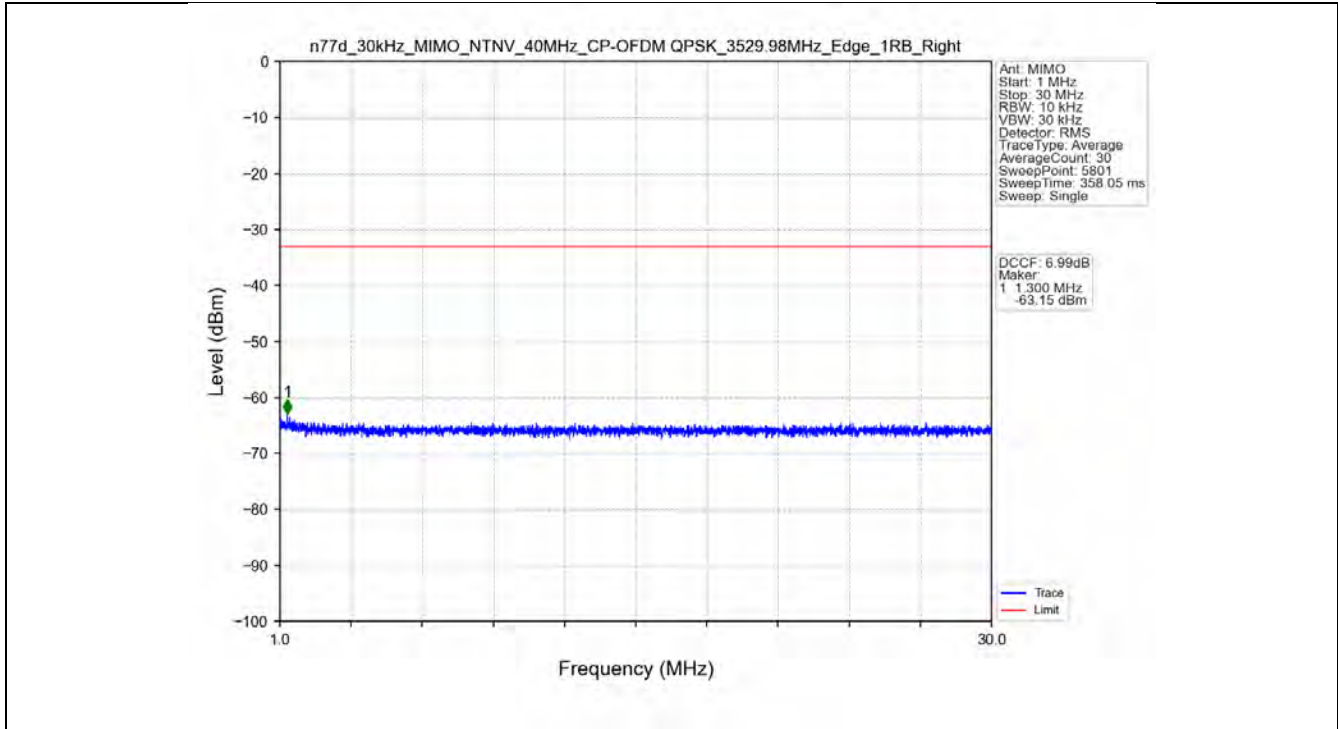


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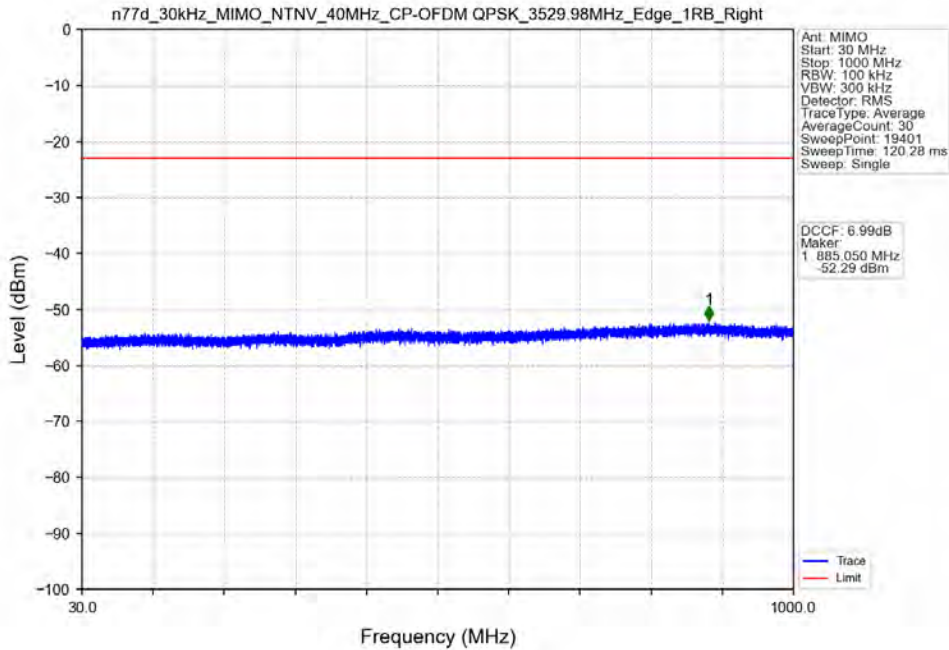
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n77d\_30kHz\_MIMO\_NTNV\_40MHz\_CP-OFDM QPSK\_3529.98MHz\_Edge\_1RB\_Right



n77d\_30kHz\_MIMO\_NTNV\_40MHz\_CP-OFDM QPSK\_3529.98MHz\_Edge\_1RB\_Right



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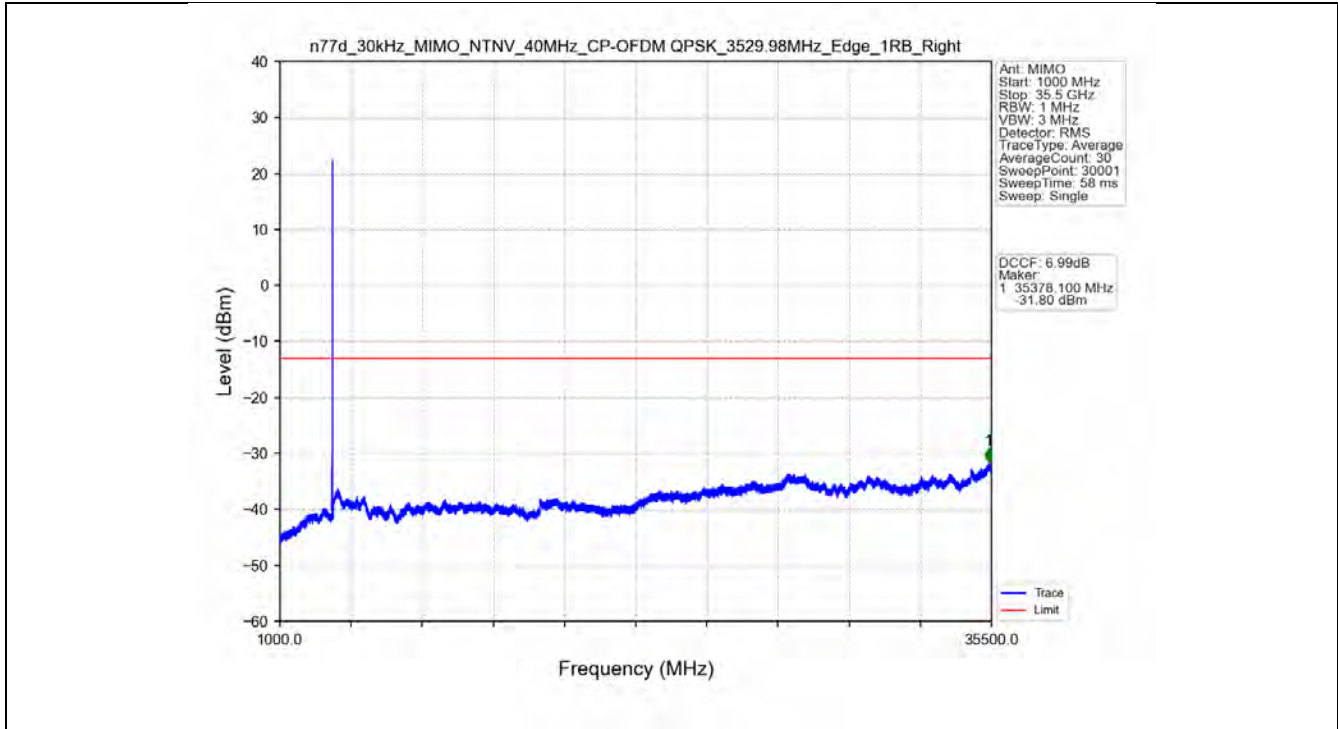


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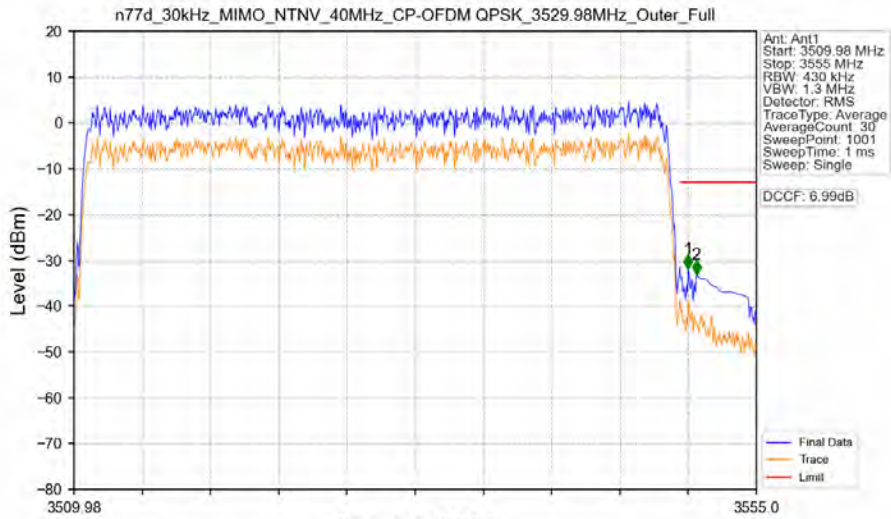
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n77d\_30kHz\_MIMO\_NTNV\_40MHz\_CP-OFDM\_QPSK\_3529.98MHz\_Outer\_Full



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 3509.98     | 3550       | 0.43      | /      | /         | /          | /           | /           | /      |
| 3550        | 3551       | 0.43      | /      | 1         | 3550.498   | -31.91      | -13         | Pass   |
| 3551        | 3555       | 1         | CHP    | 2         | 3551.038   | -33.10      | -13         | Pass   |

n77d\_30kHz\_MIMO\_NTNV\_40MHz\_CP-OFDM\_QPSK\_3529.98MHz\_Outer\_Full



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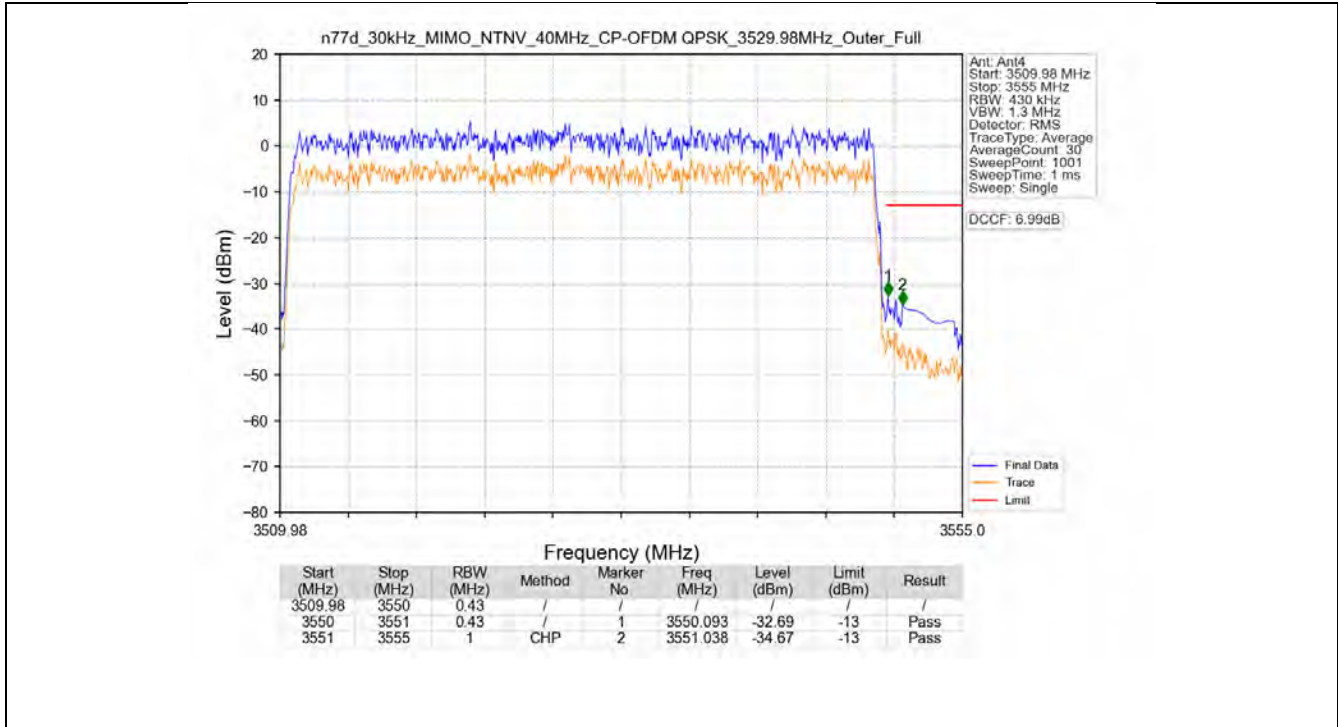


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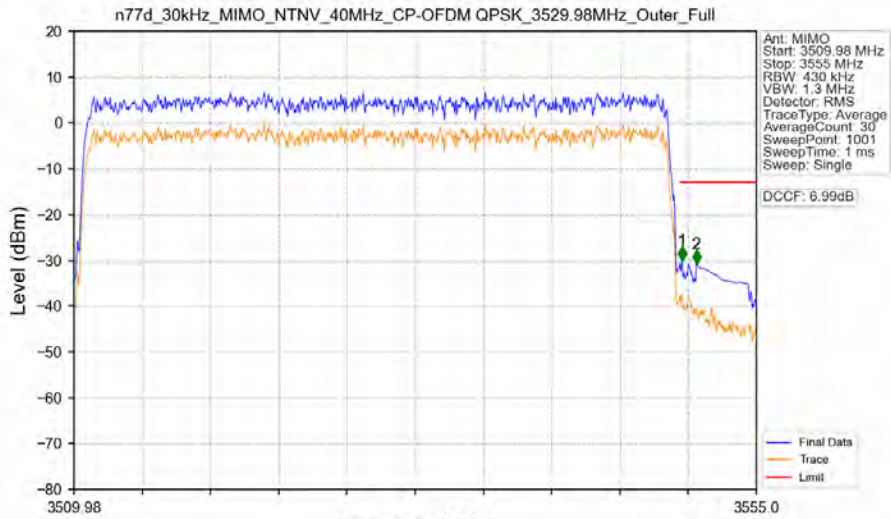
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| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 3509.98     | 3550       | 0.43      | /      | /         | /          | /           | /           | /      |
| 3550        | 3551       | 0.43      | /      | 1         | 3550.093   | -30.16      | -13         | Pass   |
| 3551        | 3555       | 1         | CHP    | 2         | 3551.038   | -30.80      | -13         | Pass   |

n77d\_30kHz\_MIMO\_NTNV\_40MHz\_CP-OFDM QPSK\_3529.98MHz\_Inner\_1RB\_Right



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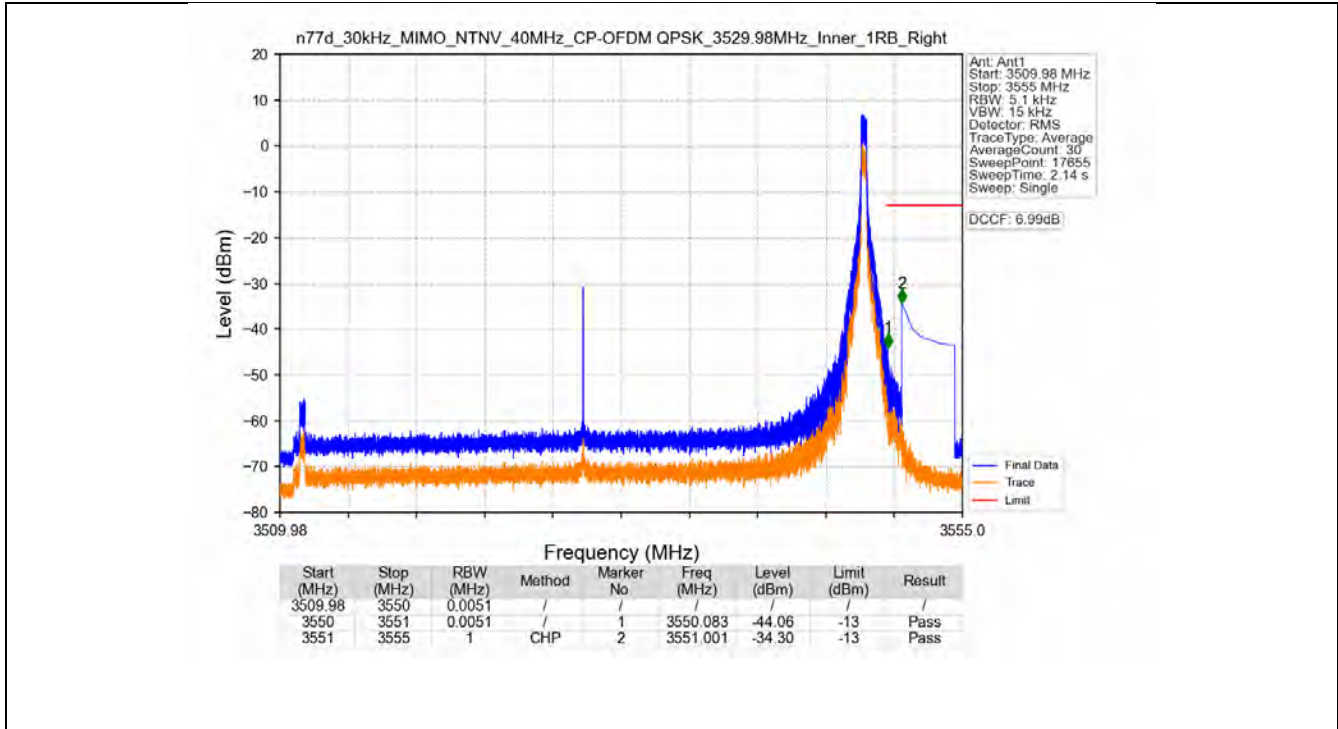


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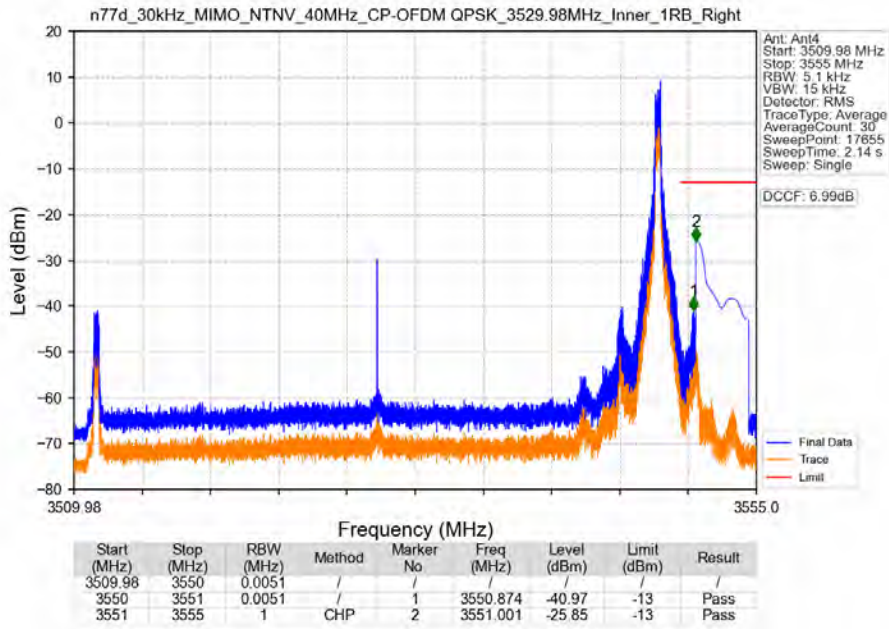
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n77d\_30kHz\_MIMO\_NTNV\_40MHz\_CP-OFDM\_QPSK\_3529.98MHz\_Inner\_1RB\_Right



n77d\_30kHz\_MIMO\_NTNV\_40MHz\_CP-OFDM\_QPSK\_3529.98MHz\_Inner\_1RB\_Right



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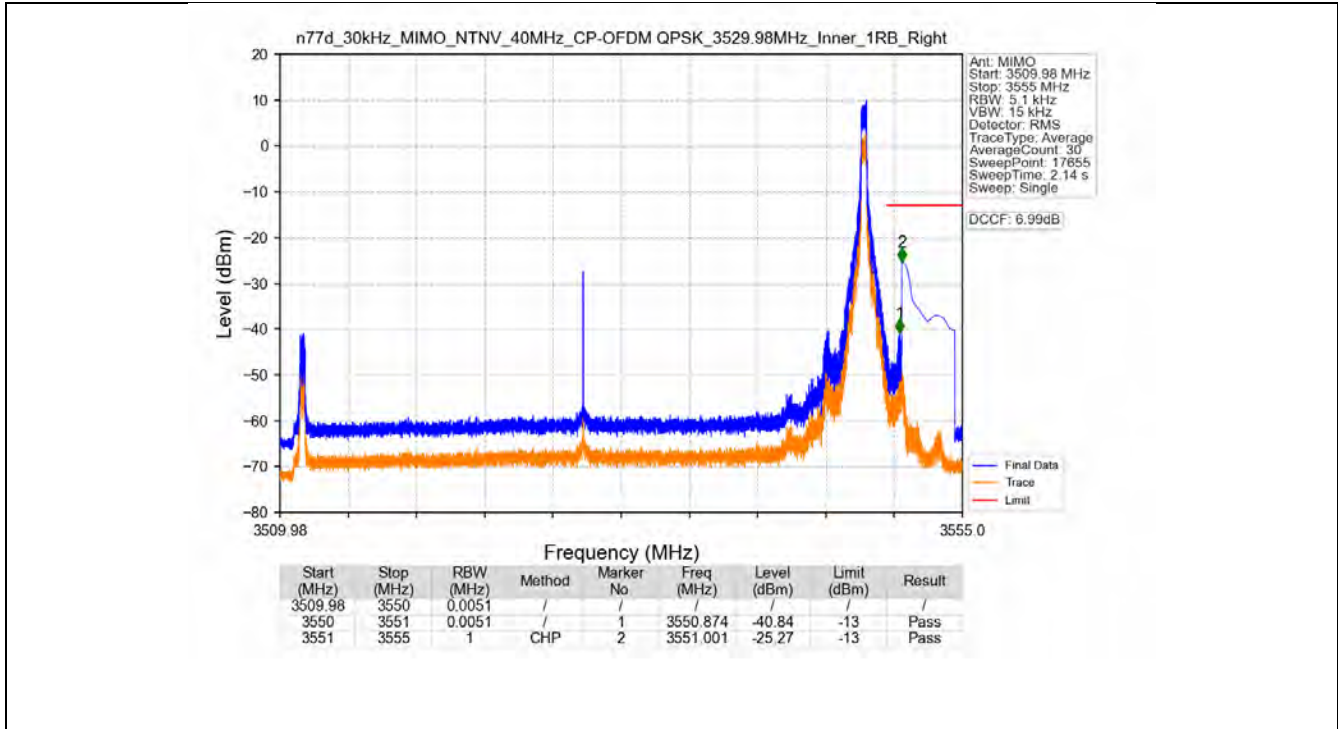


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## 5.10 30k\_MIMO\_60MHz\_NTNV

### 5.10.1 Test Result

| 5G NR n77d SCS=30kHz MIMO 60MHz NTN |                 |                     |                     |      |     |       |         |
|-------------------------------------|-----------------|---------------------|---------------------|------|-----|-------|---------|
| Modulation                          | Frequency (MHz) | RB Allocation       | Spurious Emission   |      |     |       | Verdict |
|                                     |                 |                     | Ant1                | Ant4 | Sum | Limit |         |
| CP-OFDM<br>QPSK                     | 3480            | Edge_1RB_Left       | Refer To Test Graph |      |     |       | Pass    |
|                                     |                 |                     | Refer To Test Graph |      |     |       | Pass    |
|                                     |                 |                     | Refer To Test Graph |      |     |       | Pass    |
|                                     |                 | Outer_Full          | Refer To Test Graph |      |     |       | Pass    |
|                                     |                 |                     | Refer To Test Graph |      |     |       | Pass    |
|                                     |                 |                     | Refer To Test Graph |      |     |       | Pass    |
|                                     | 3519.99         | Inner_1RB_Left      | Refer To Test Graph |      |     |       | Pass    |
|                                     |                 |                     | Refer To Test Graph |      |     |       | Pass    |
|                                     |                 |                     | Refer To Test Graph |      |     |       | Pass    |
|                                     |                 | Edge_1RB_Right      | Refer To Test Graph |      |     |       | Pass    |
|                                     |                 |                     | Refer To Test Graph |      |     |       | Pass    |
|                                     |                 |                     | Refer To Test Graph |      |     |       | Pass    |
|                                     | Outer_Full      | Refer To Test Graph |                     |      |     | Pass  |         |
|                                     |                 | Refer To Test Graph |                     |      |     | Pass  |         |
|                                     |                 | Refer To Test Graph |                     |      |     | Pass  |         |
|                                     | Inner_1RB_Right | Refer To Test Graph |                     |      |     | Pass  |         |
| Refer To Test Graph                 |                 |                     |                     | Pass |     |       |         |



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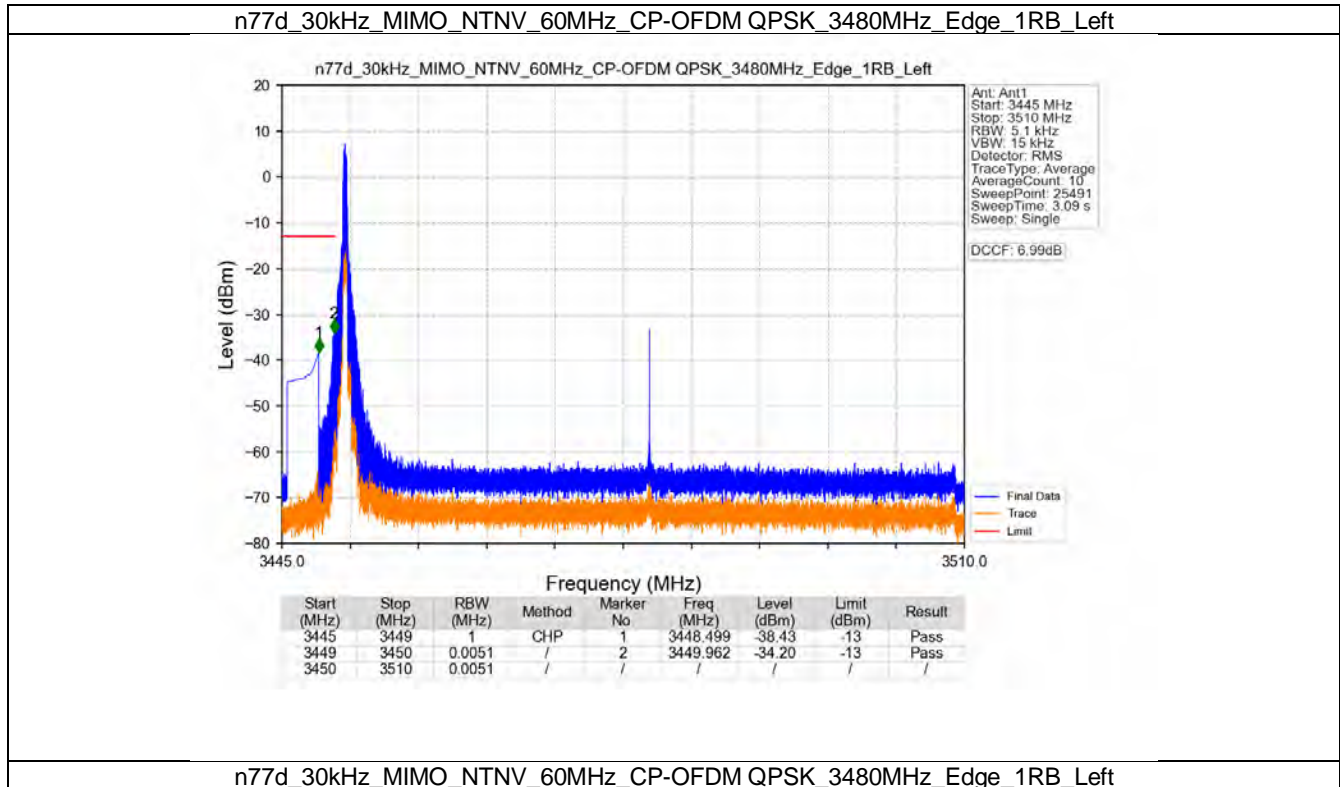
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5.10.2 Test Graph



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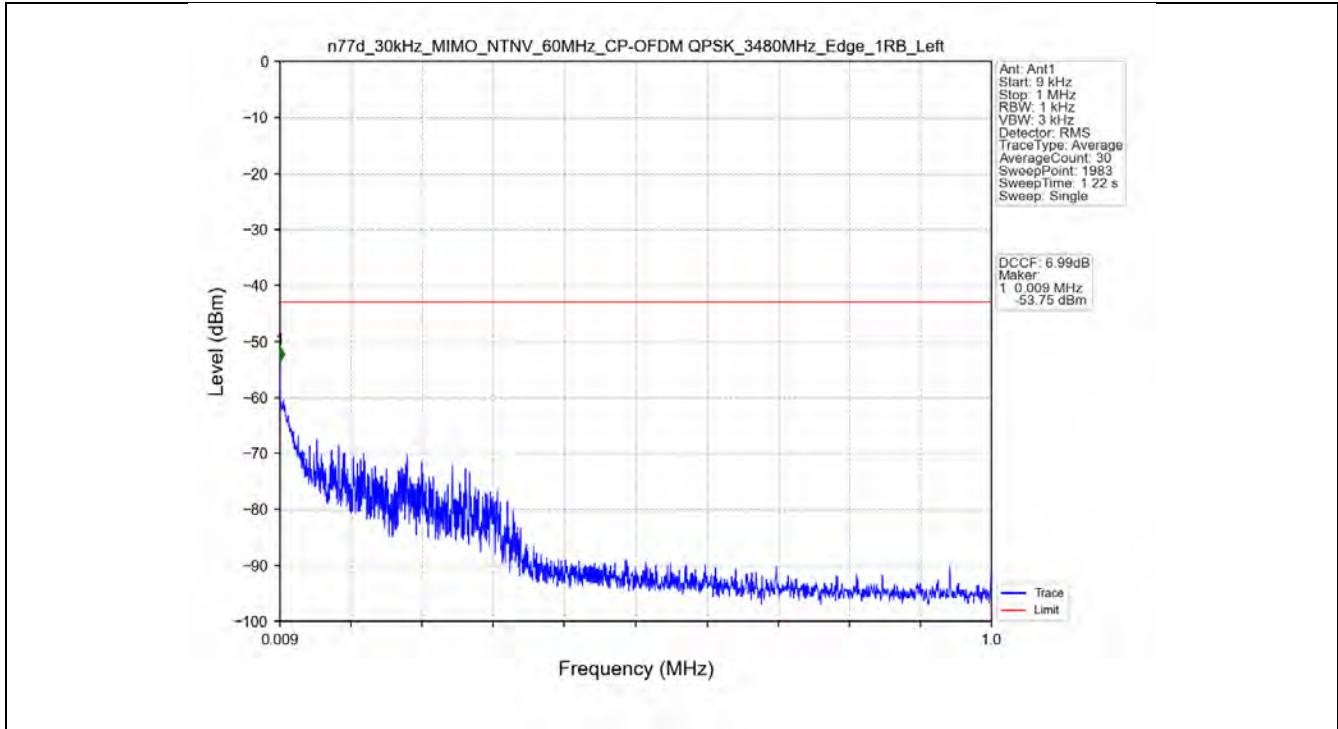


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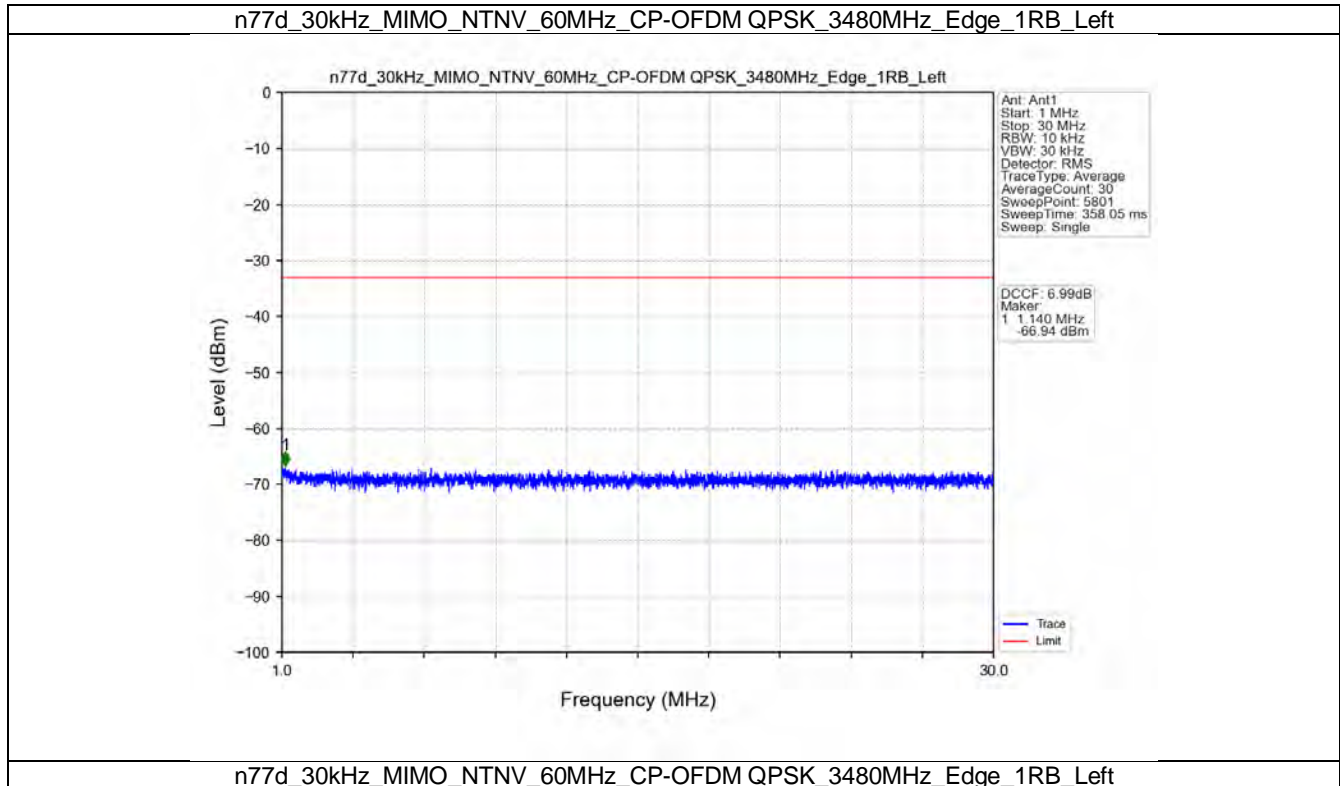


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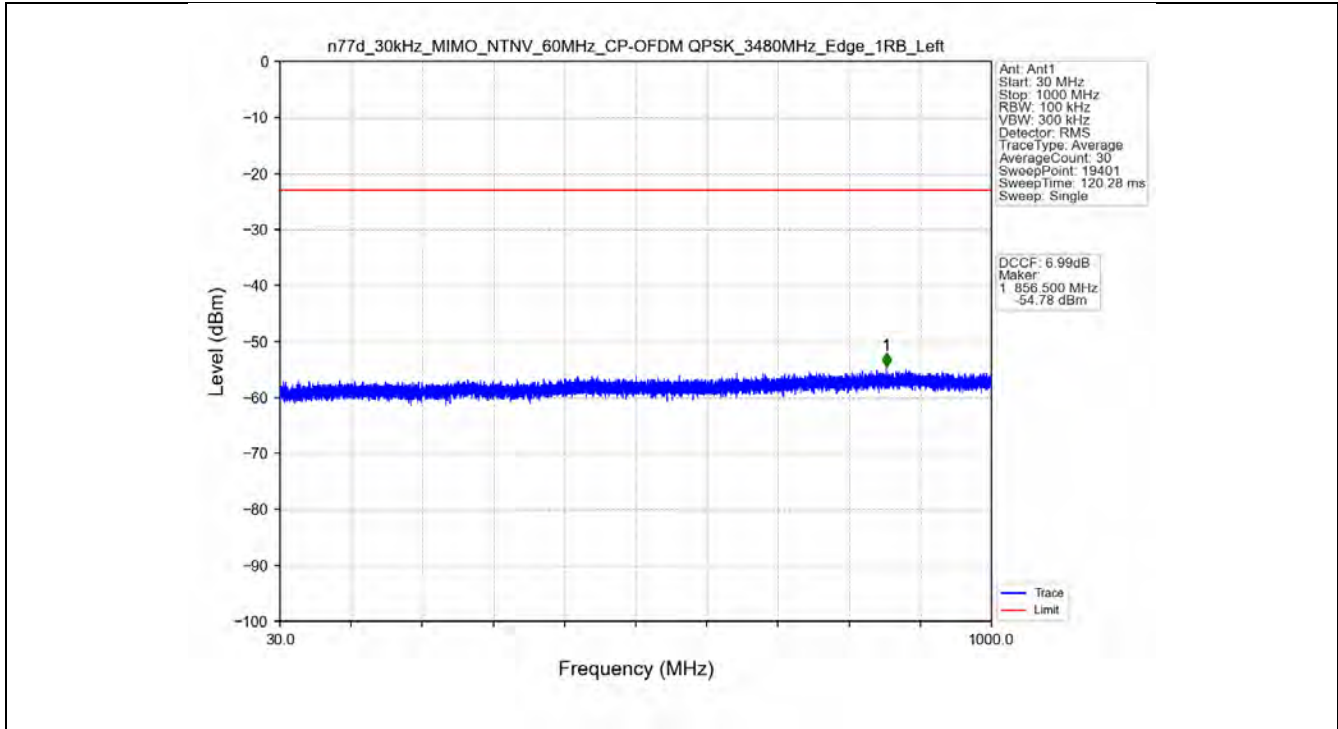


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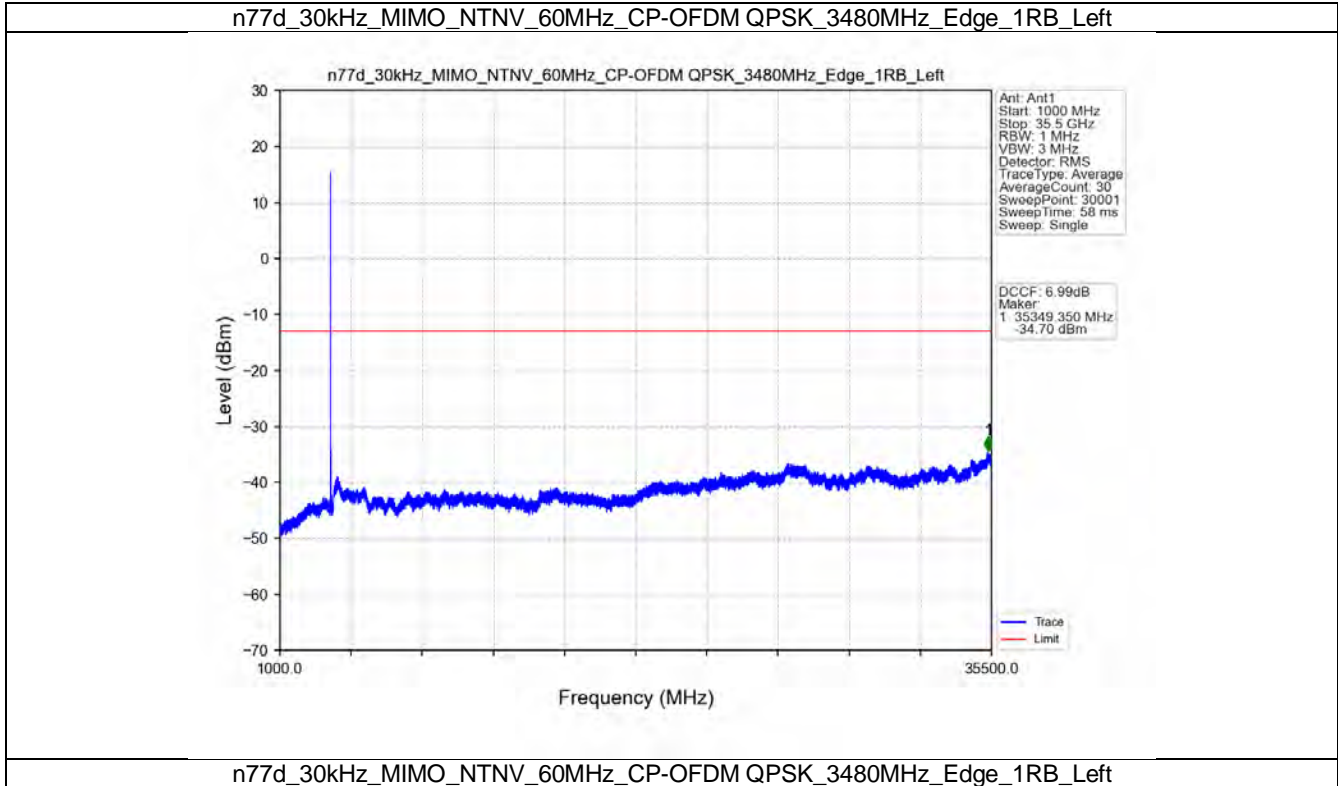


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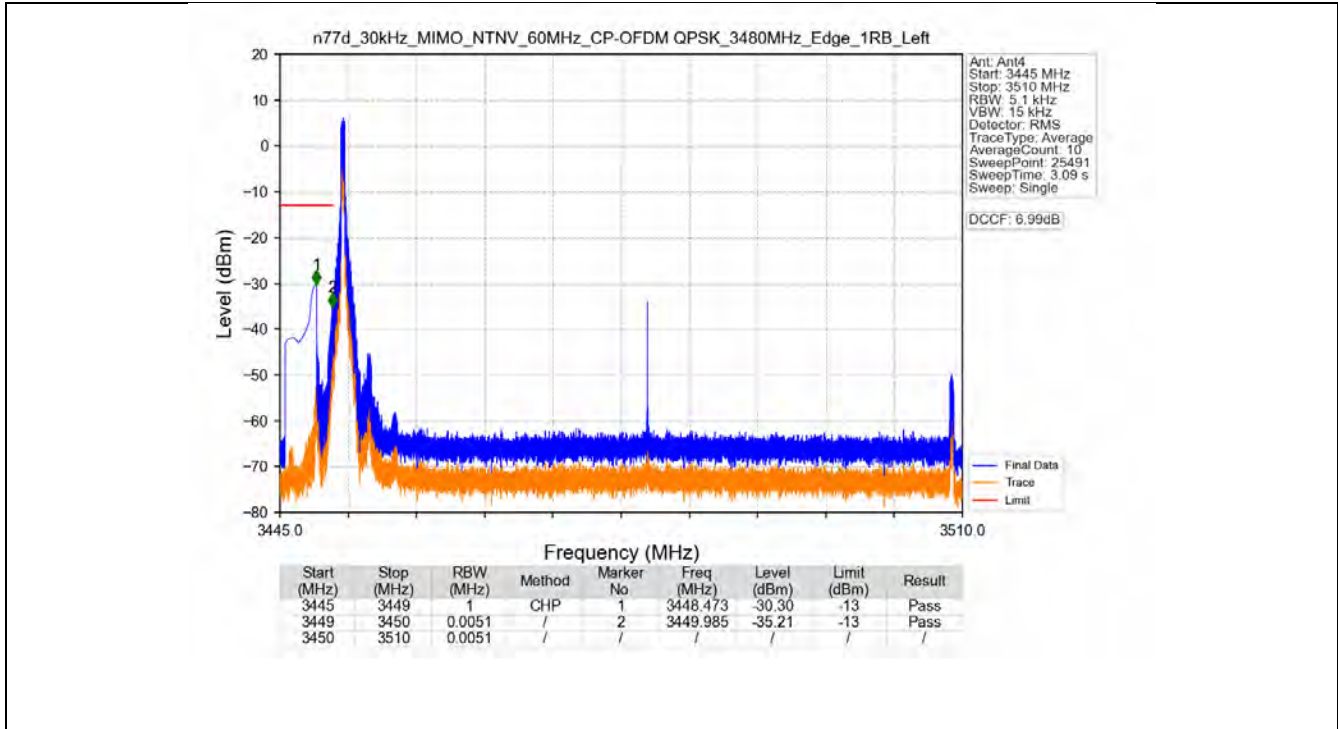


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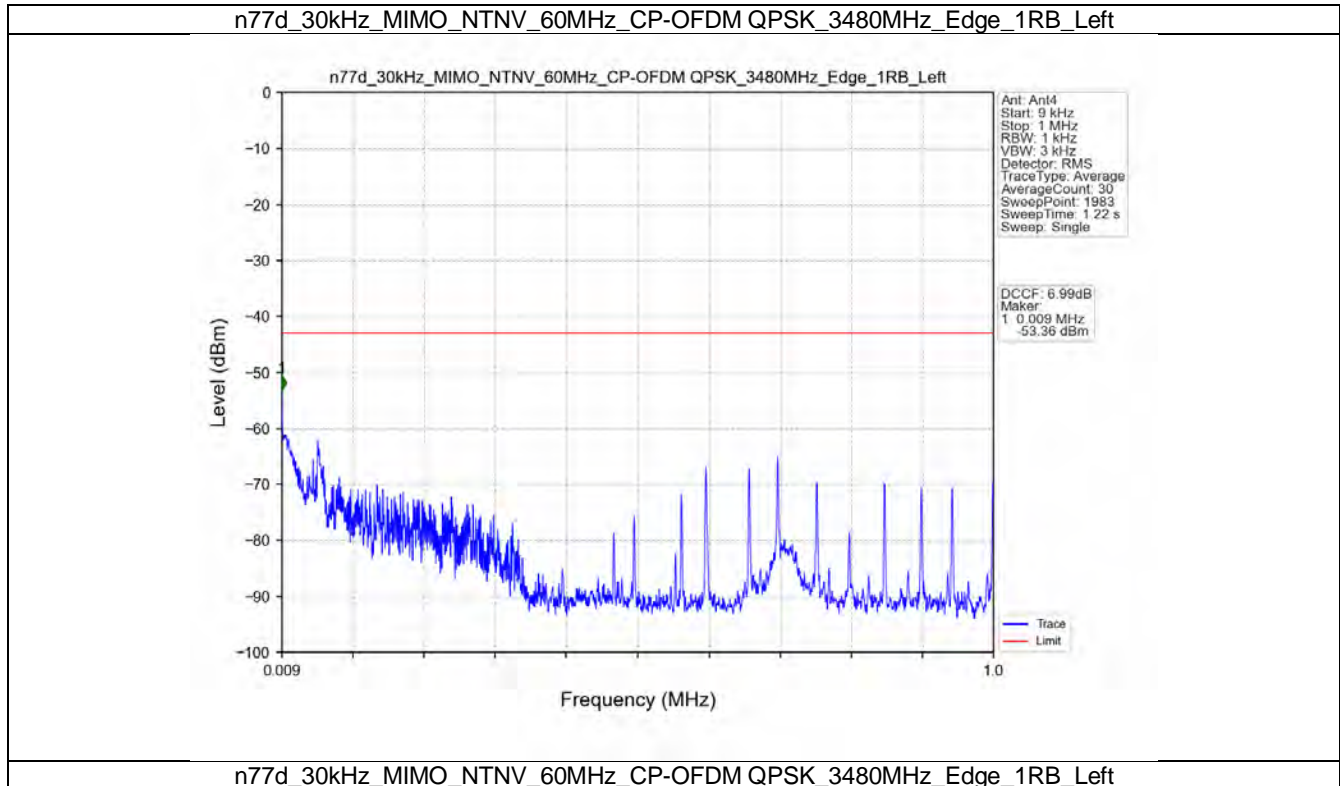


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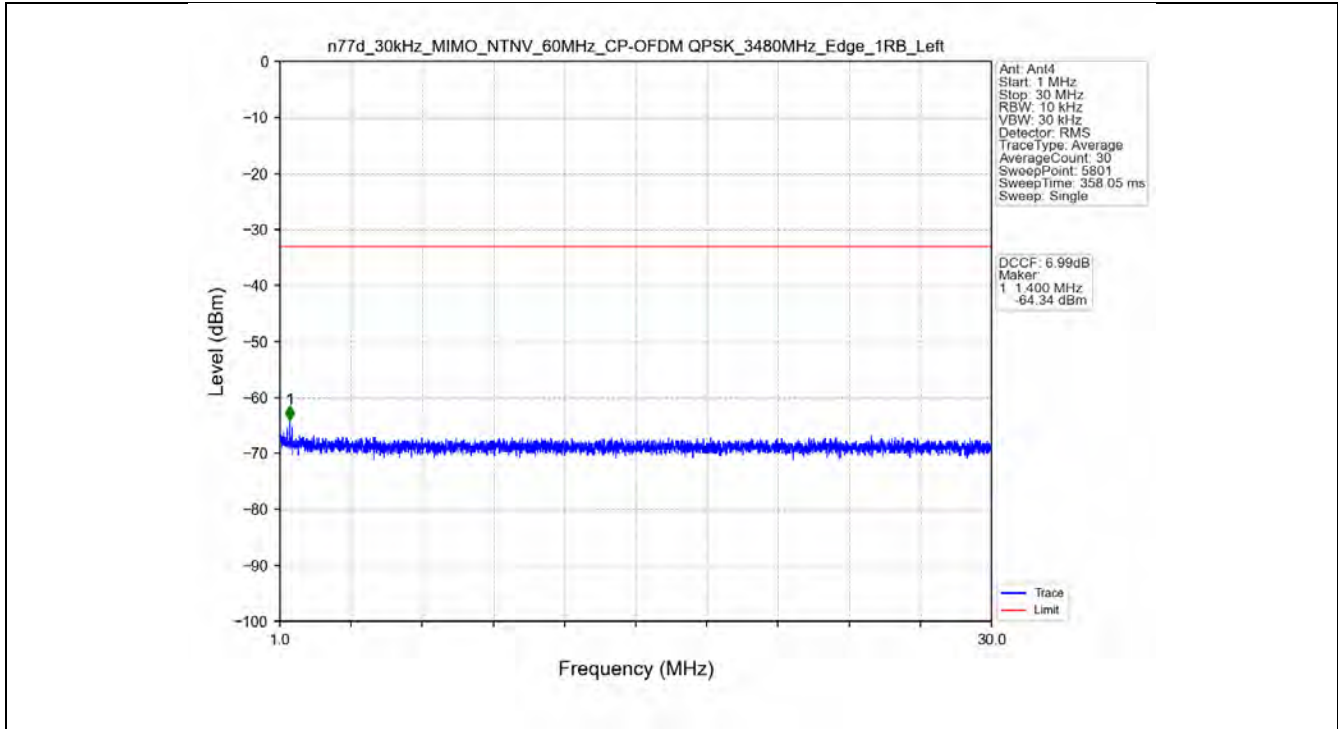


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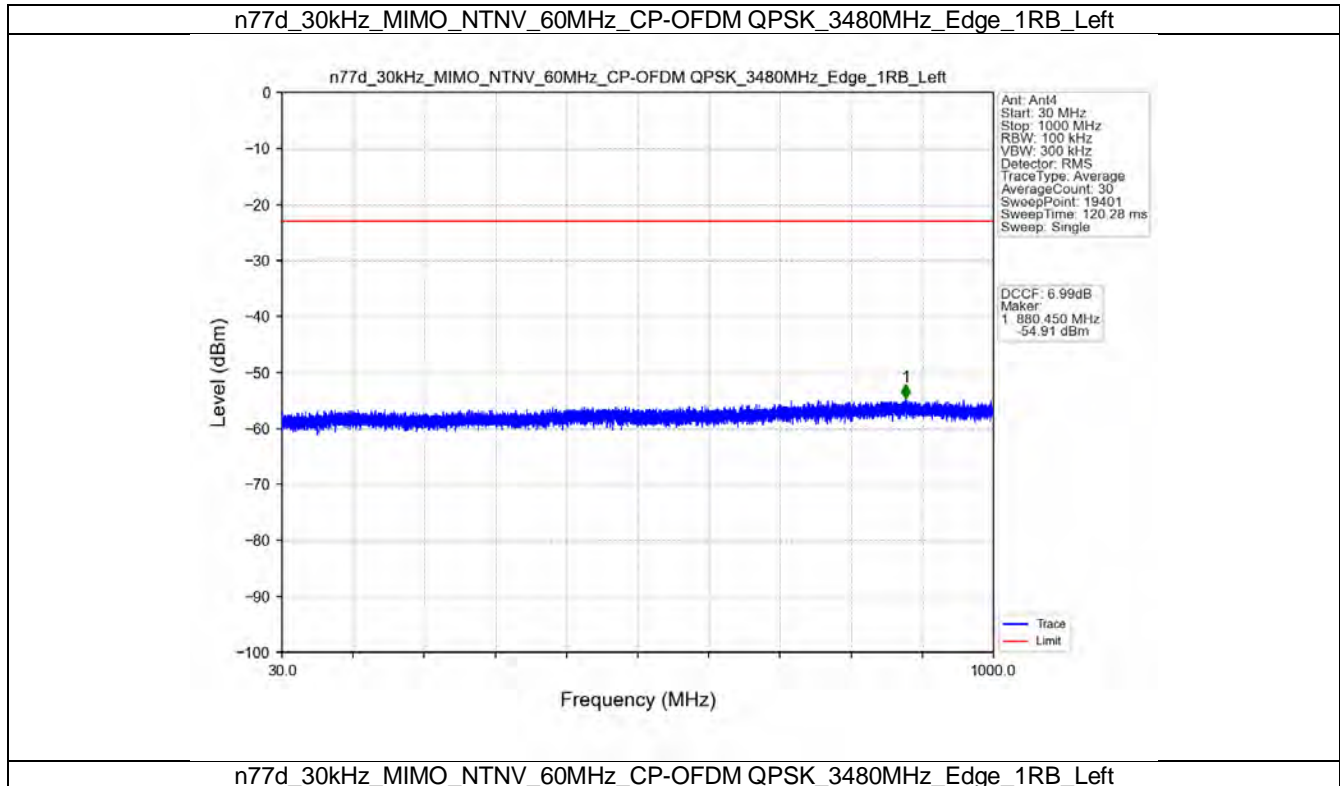


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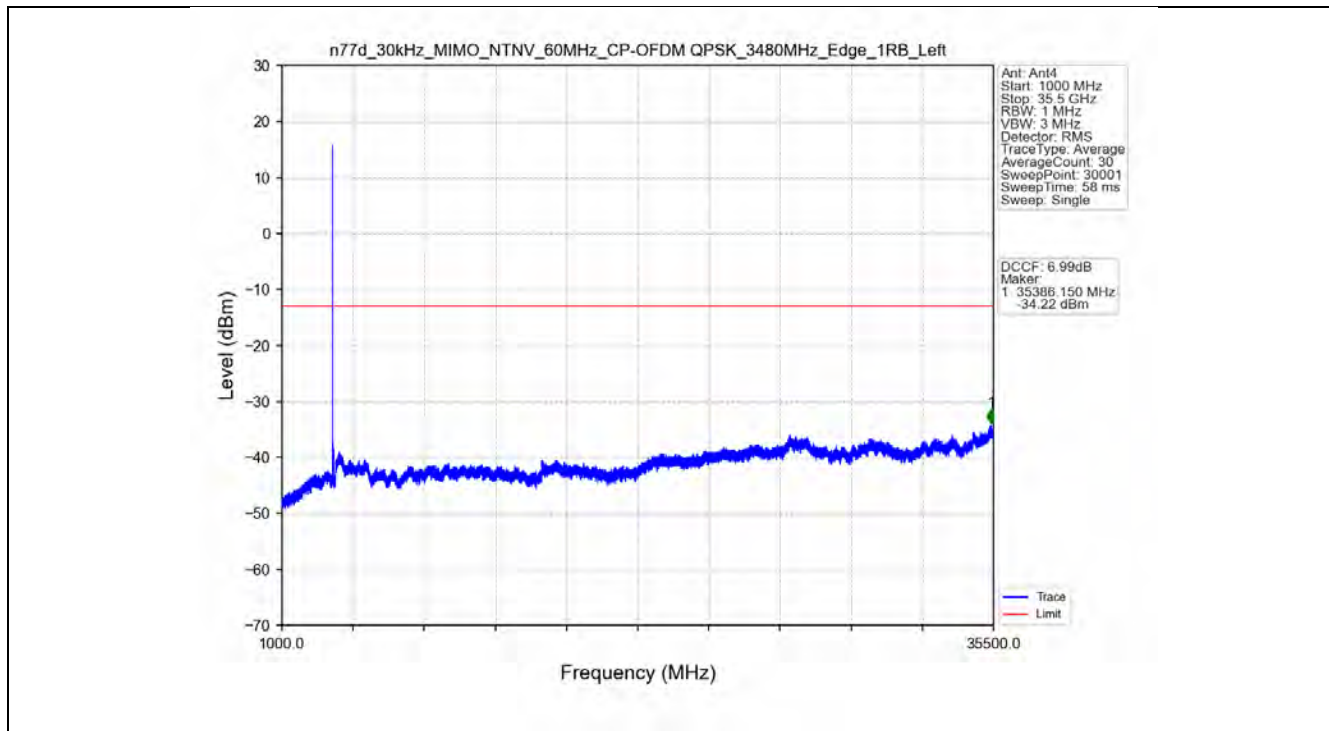
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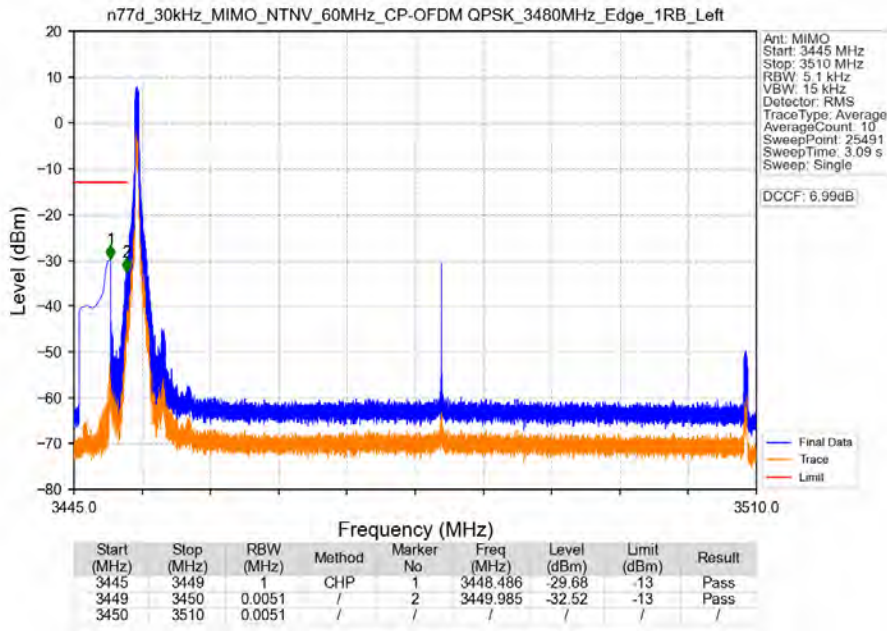
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n77d\_30kHz\_MIMO\_NTNV\_60MHz\_CP-OFDM\_QPSK\_3480MHz\_Edge\_1RB\_Left



n77d\_30kHz\_MIMO\_NTNV\_60MHz\_CP-OFDM\_QPSK\_3480MHz\_Edge\_1RB\_Left



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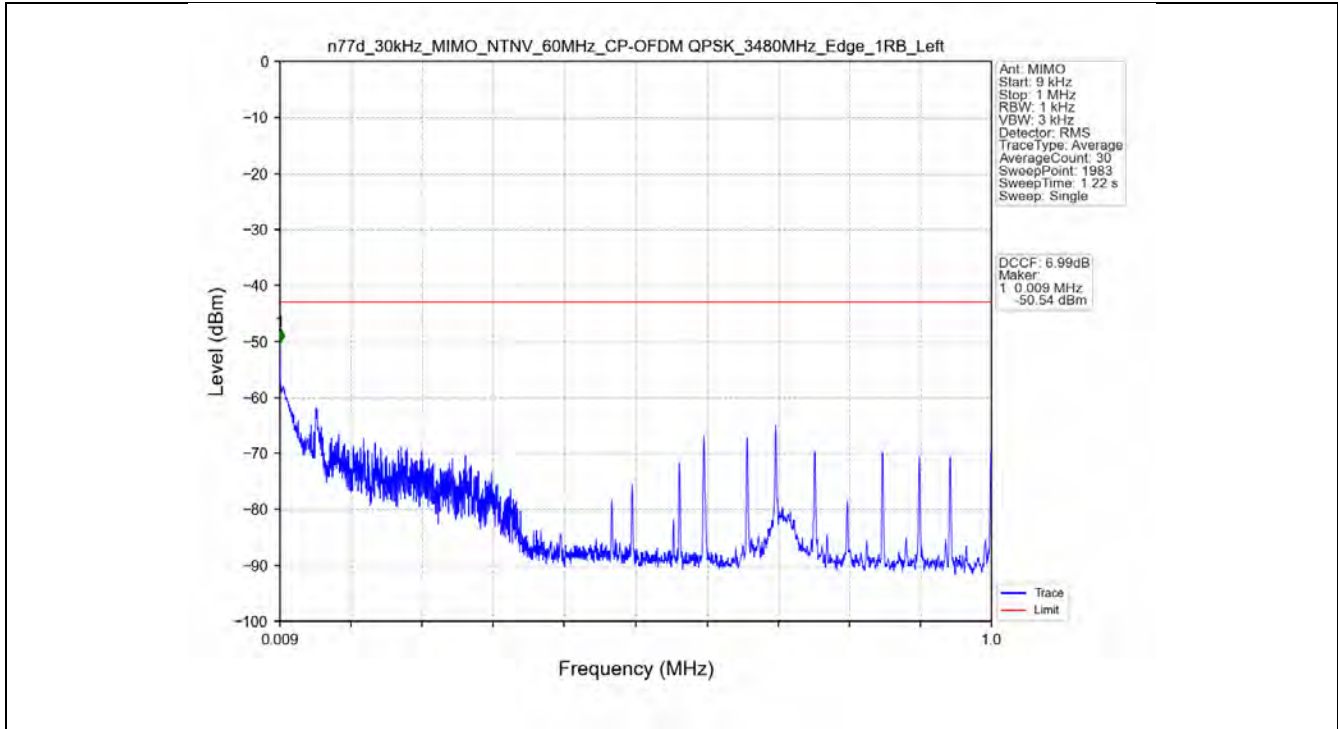


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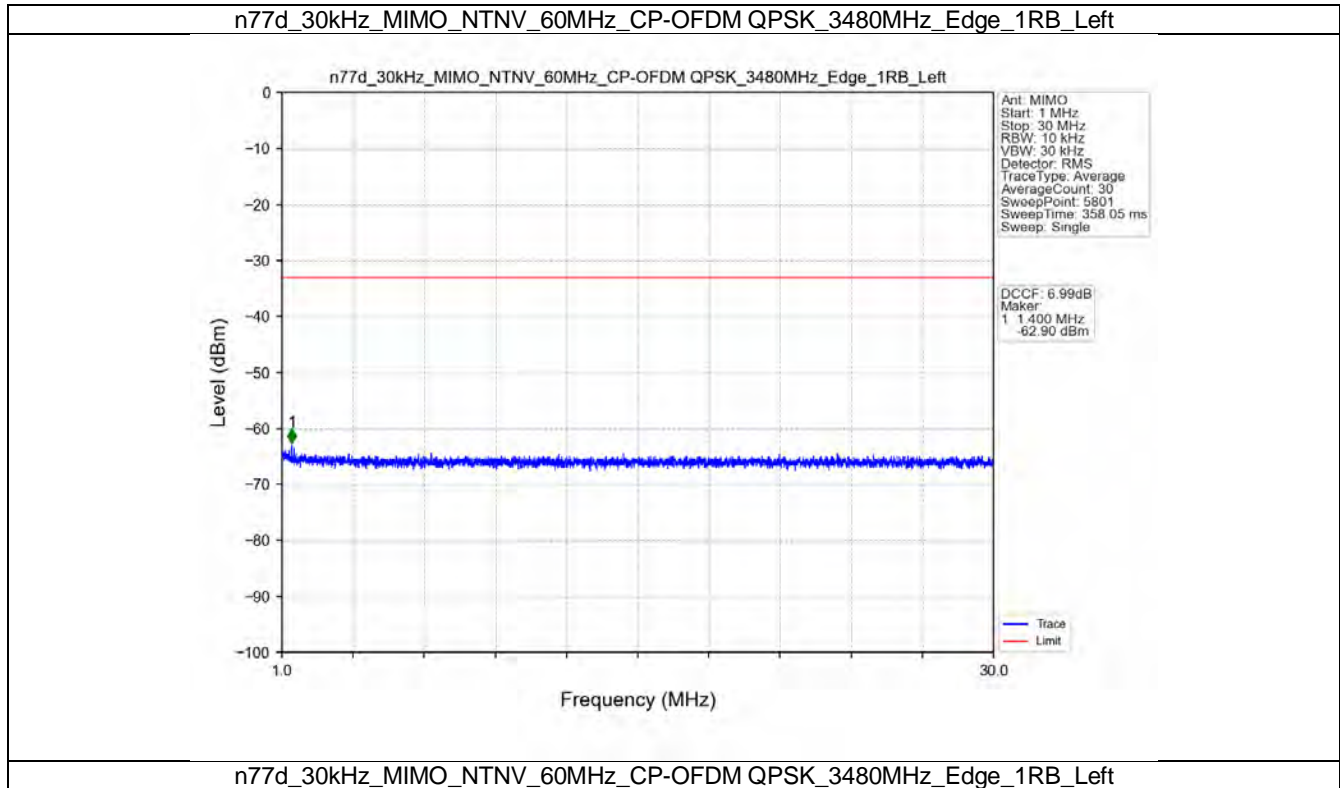


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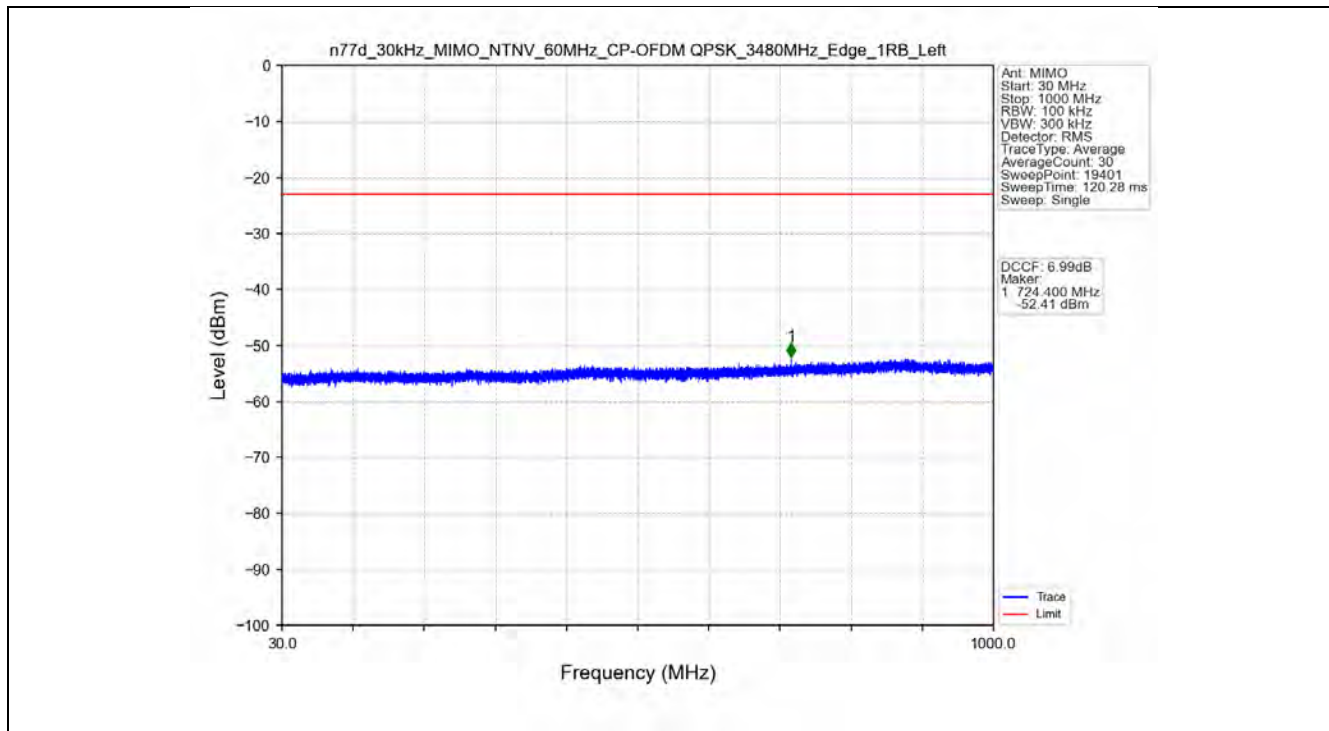
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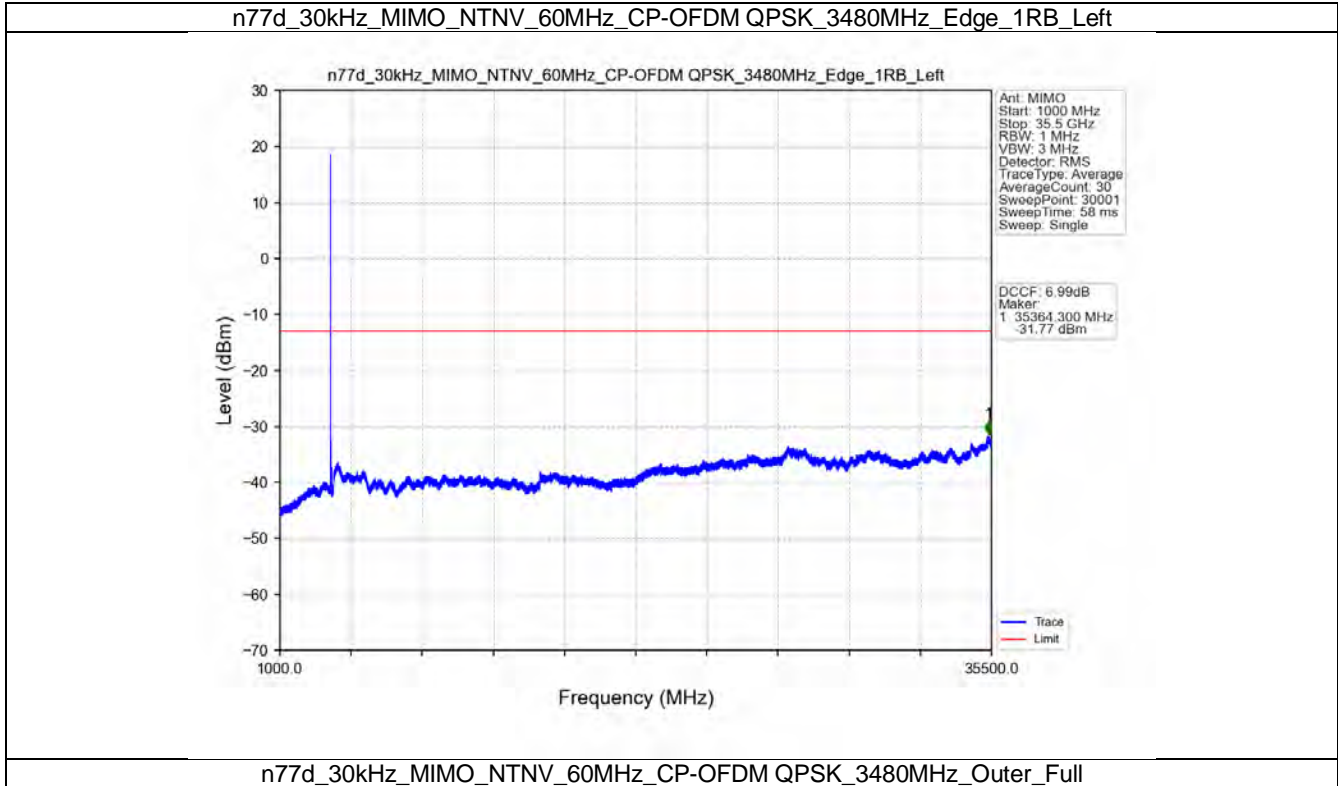


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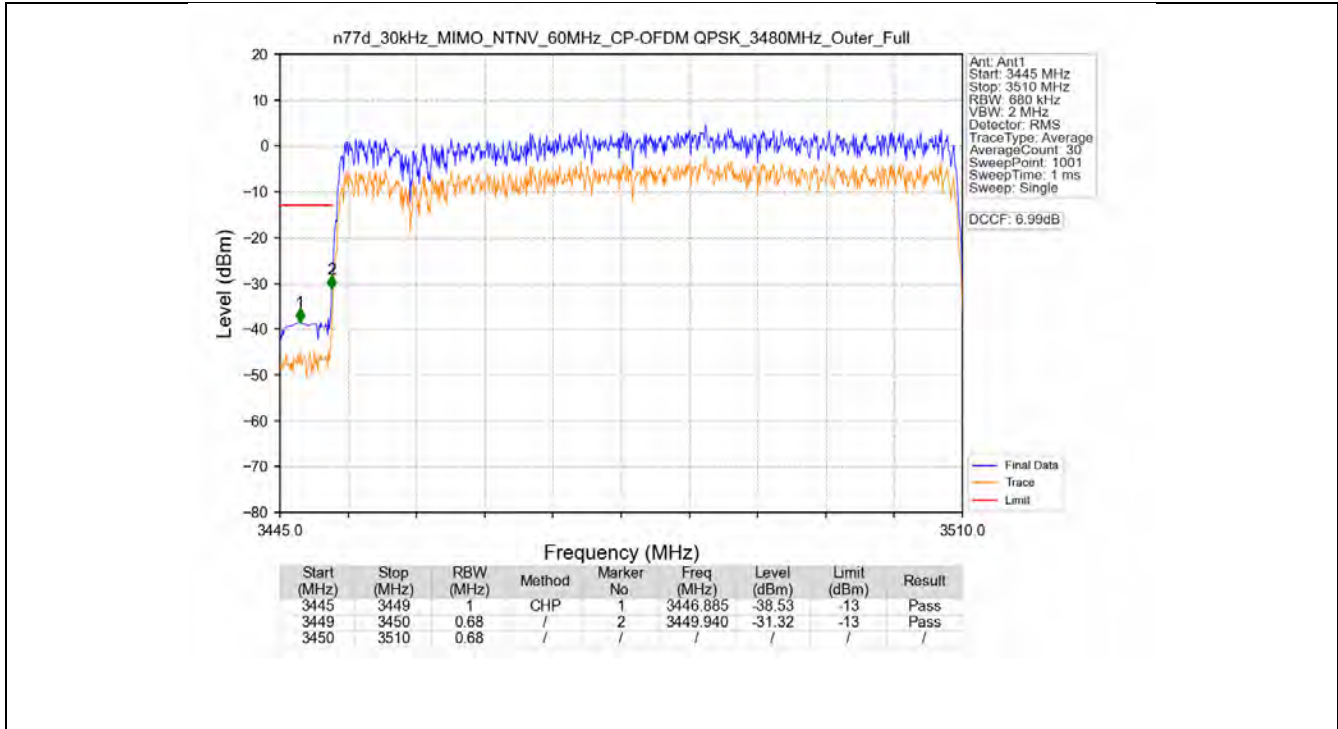


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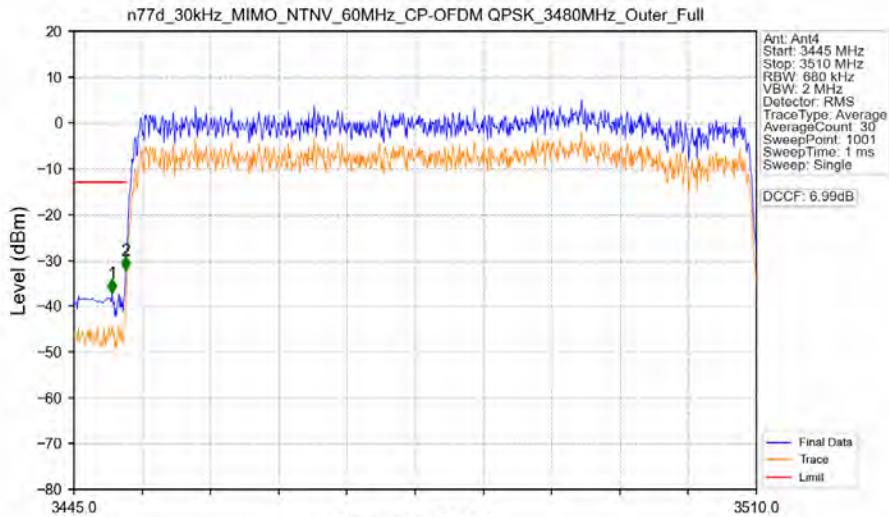
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n77d\_30kHz\_MIMO\_NTNV\_60MHz\_CP-OFDM\_QPSK\_3480MHz\_Outer\_Full



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 3445        | 3449       | 1         | CHP    | 1         | 3448.640   | -37.21      | -13         | Pass   |
| 3449        | 3450       | 0.68      | /      | 2         | 3449.940   | -32.25      | -13         | Pass   |
| 3450        | 3510       | 0.68      | /      | /         | /          | /           | /           | /      |

n77d\_30kHz\_MIMO\_NTNV\_60MHz\_CP-OFDM\_QPSK\_3480MHz\_Outer\_Full



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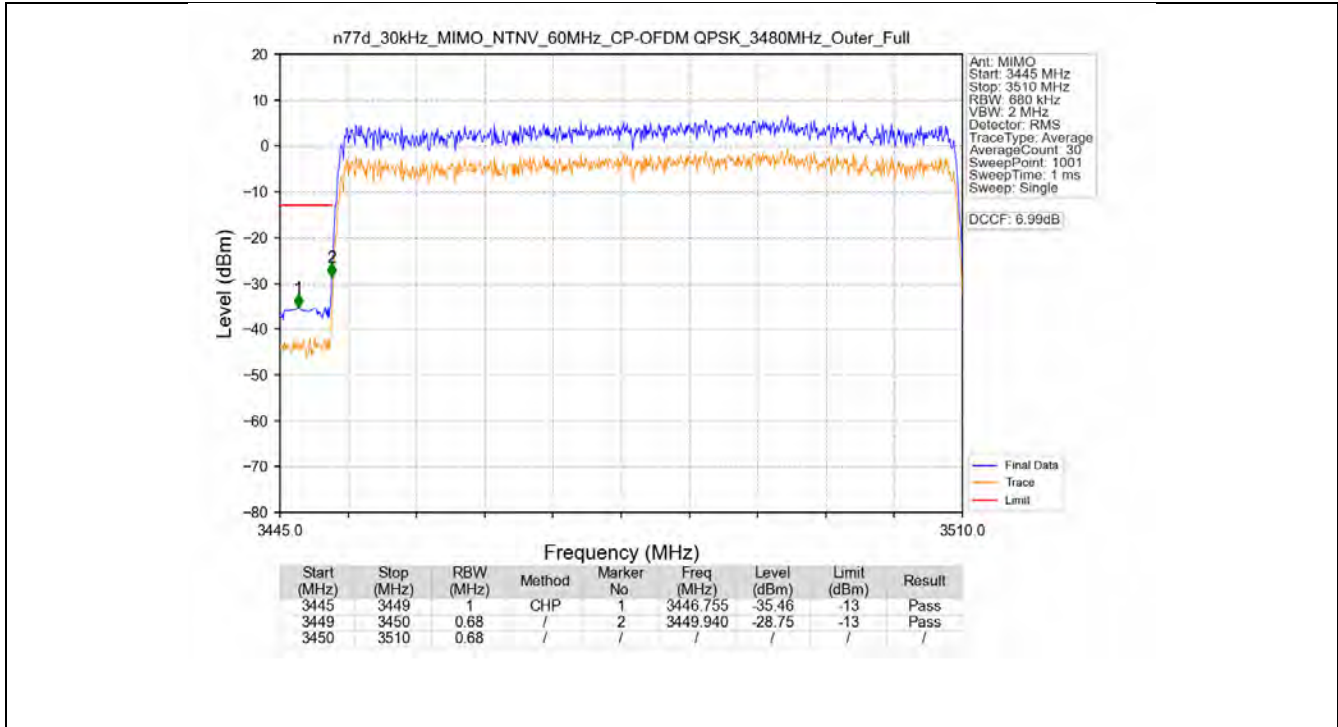


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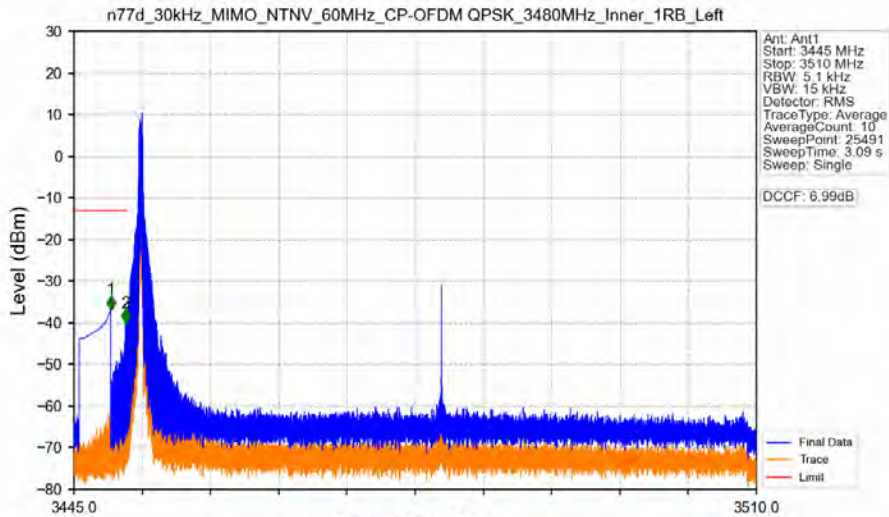
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n77d\_30kHz\_MIMO\_NTNV\_60MHz\_CP-OFDM QPSK\_3480MHz\_Inner\_1RB\_Left



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 3445        | 3449       | 1         | CHP    | 1         | 3448.499   | -36.84      | -13         | Pass   |
| 3449        | 3450       | 0.0051    | /      | 2         | 3449.906   | -40.07      | -13         | Pass   |
| 3450        | 3510       | 0.0051    | /      | /         | /          | /           | /           | /      |

n77d\_30kHz\_MIMO\_NTNV\_60MHz\_CP-OFDM QPSK\_3480MHz\_Inner\_1RB\_Left



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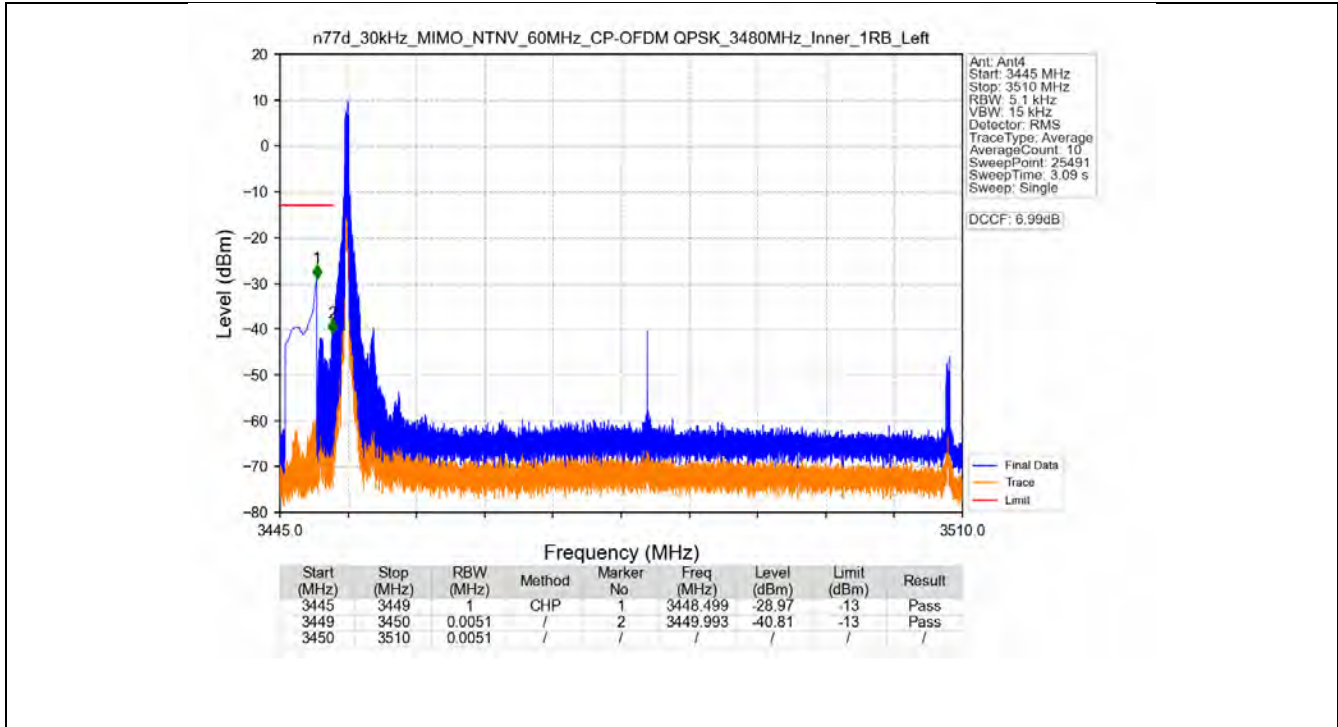


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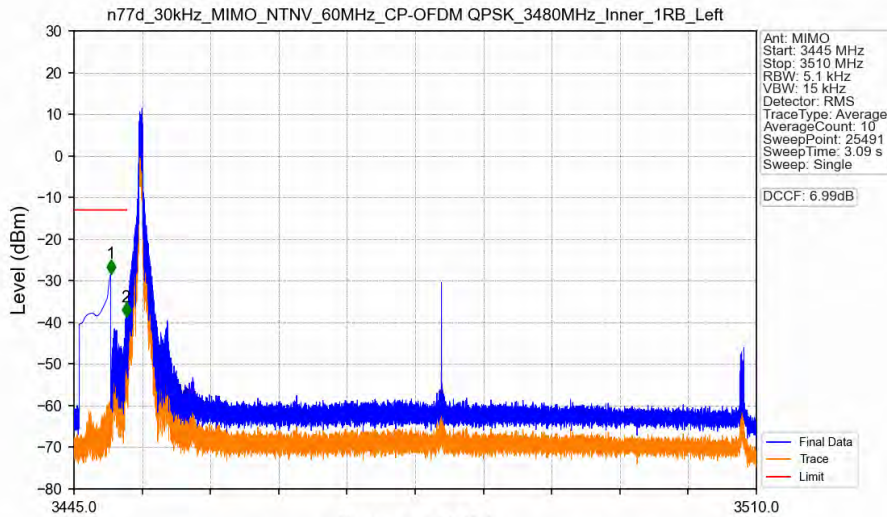
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n77d\_30kHz\_MIMO\_NTNV\_60MHz\_CP-OFDM QPSK\_3480MHz\_Inner\_1RB\_Left



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 3445        | 3449       | 1         | CHP    | 1          | 3448.499   | -28.31      | -13         | Pass   |
| 3449        | 3450       | 0.0051    | /      | 2          | 3449.962   | -38.63      | -13         | Pass   |
| 3450        | 3510       | 0.0051    | /      | /          | /          | /           | /           | /      |

n77d\_30kHz\_MIMO\_NTNV\_60MHz\_CP-OFDM QPSK\_3519.99MHz\_Edge\_1RB\_Right



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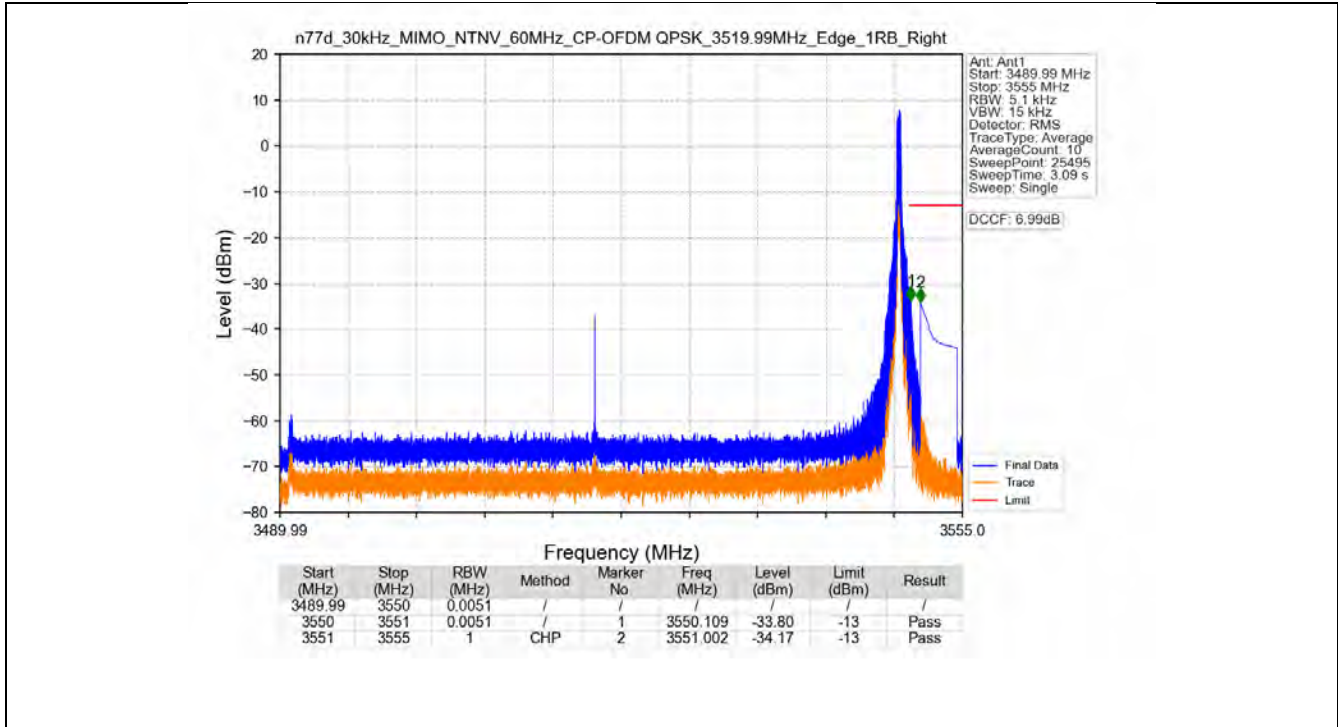


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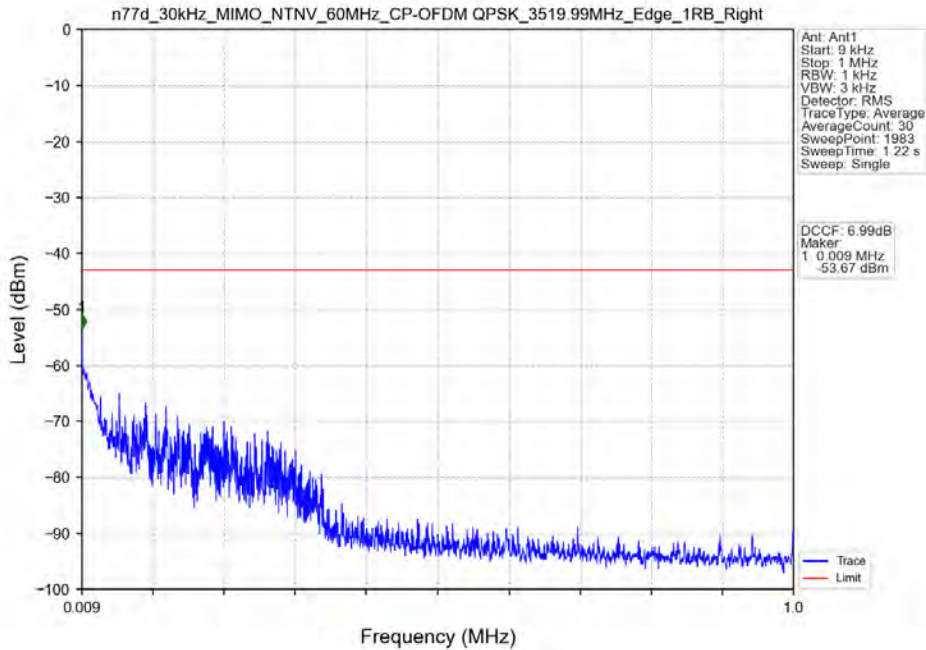
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n77d\_30kHz\_MIMO\_NTNV\_60MHz\_CP-OFDM QPSK\_3519.99MHz\_Edge\_1RB\_Right



n77d\_30kHz\_MIMO\_NTNV\_60MHz\_CP-OFDM QPSK\_3519.99MHz\_Edge\_1RB\_Right



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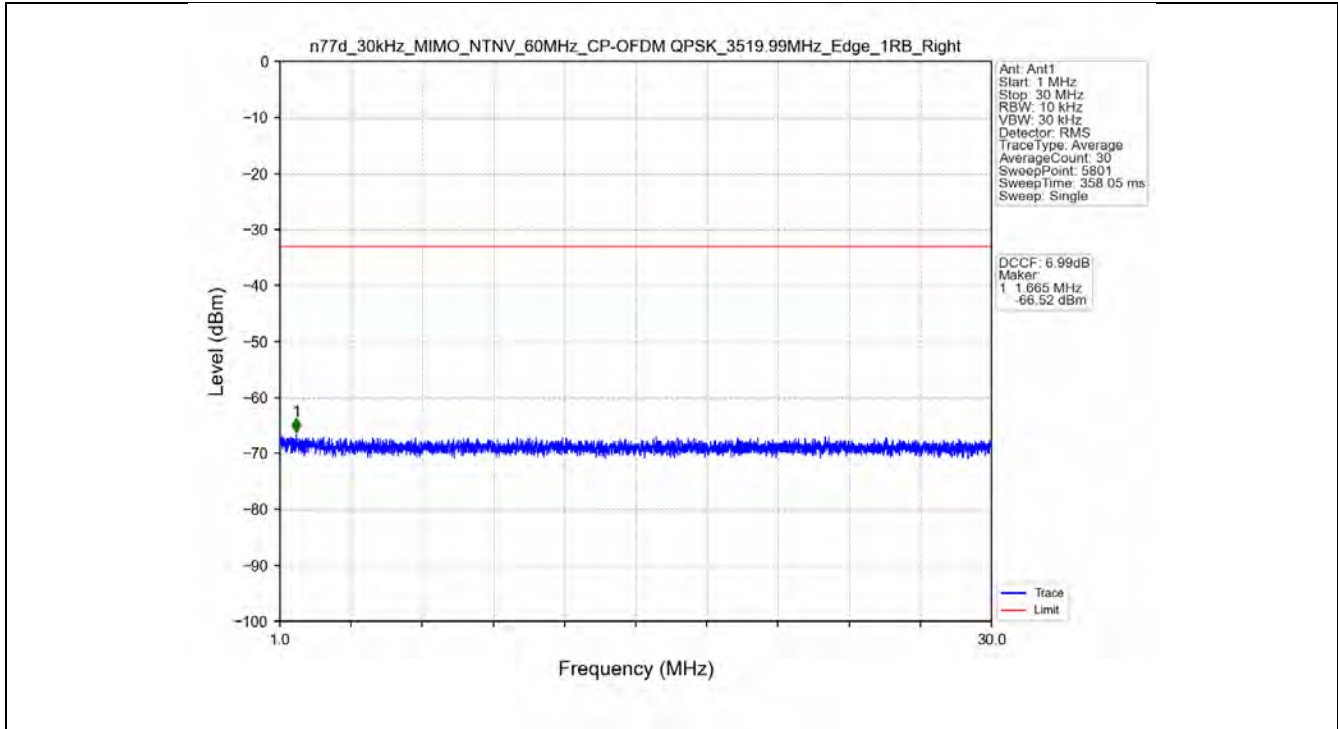


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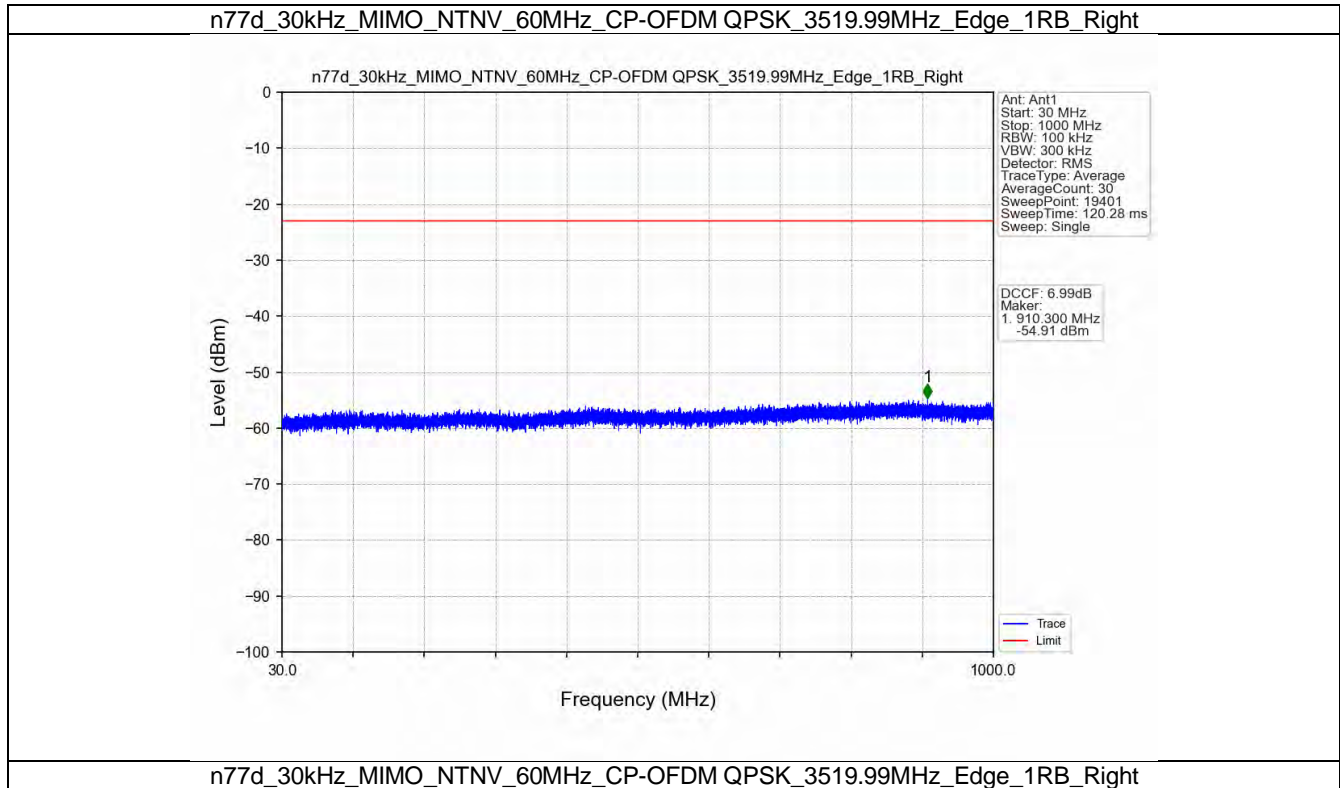


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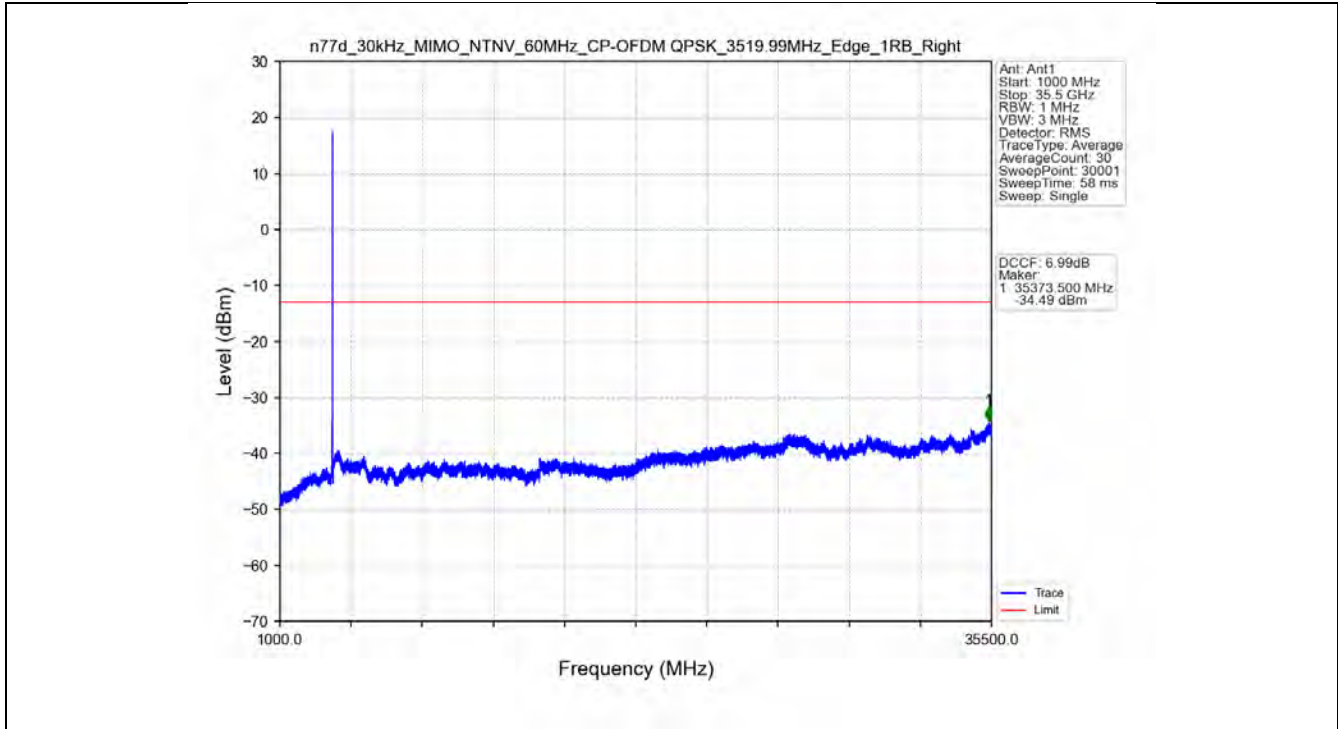


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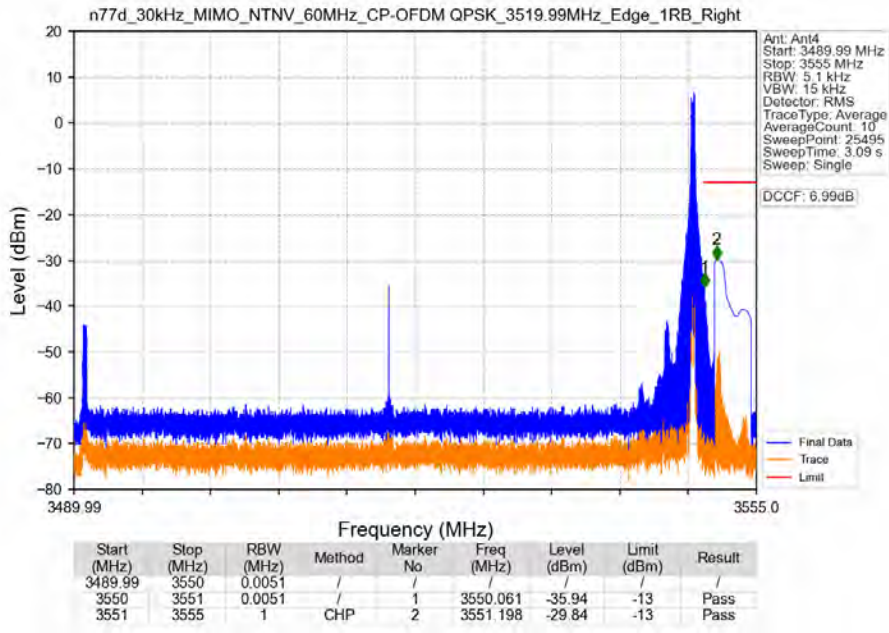
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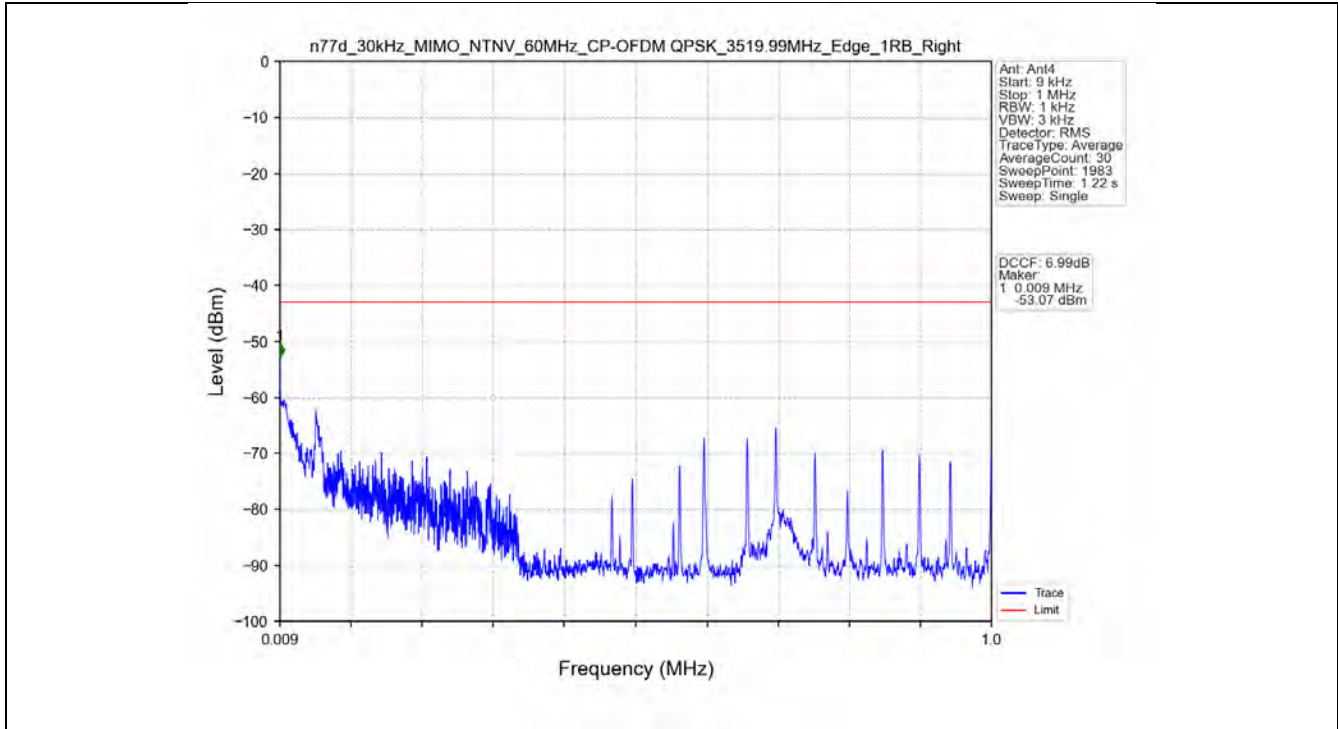


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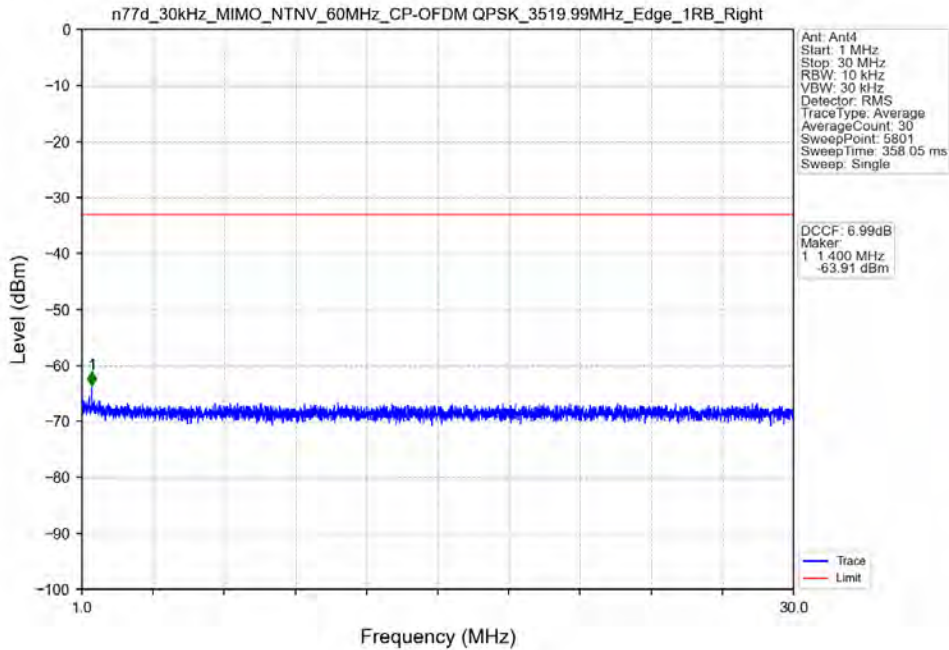
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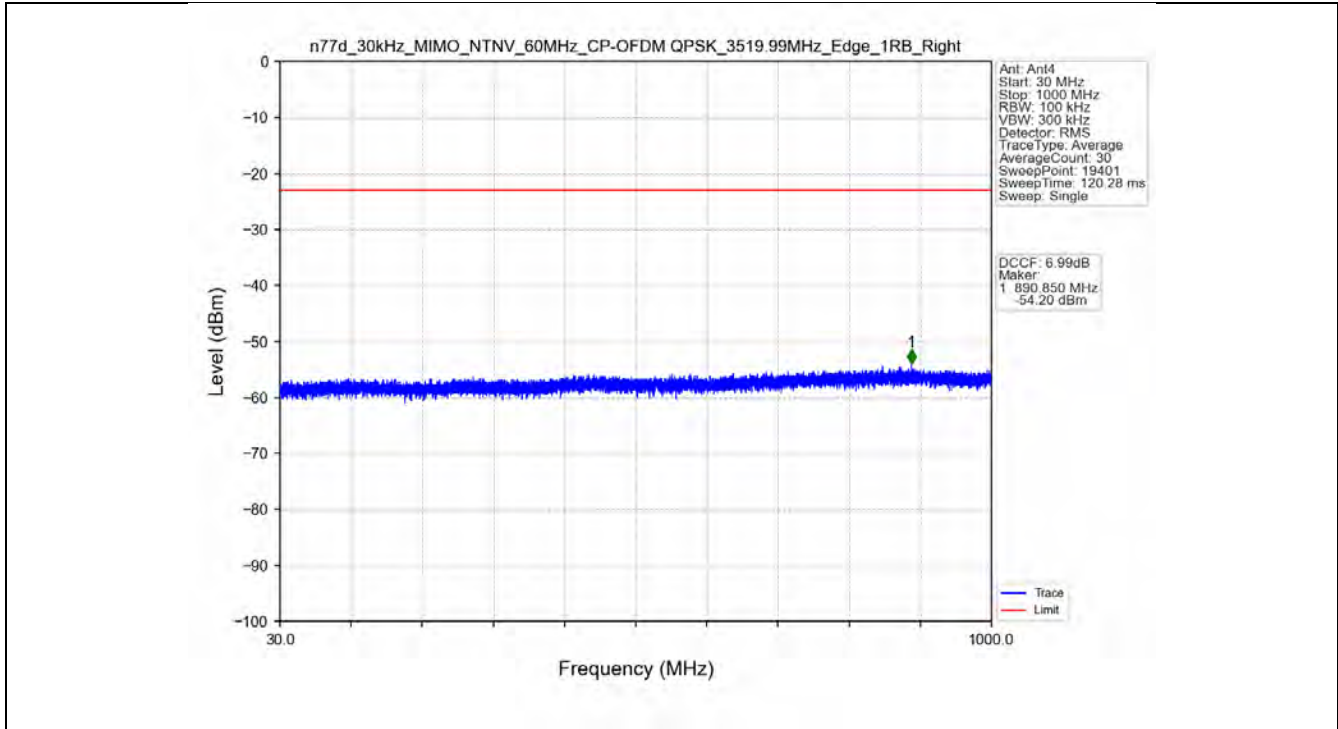


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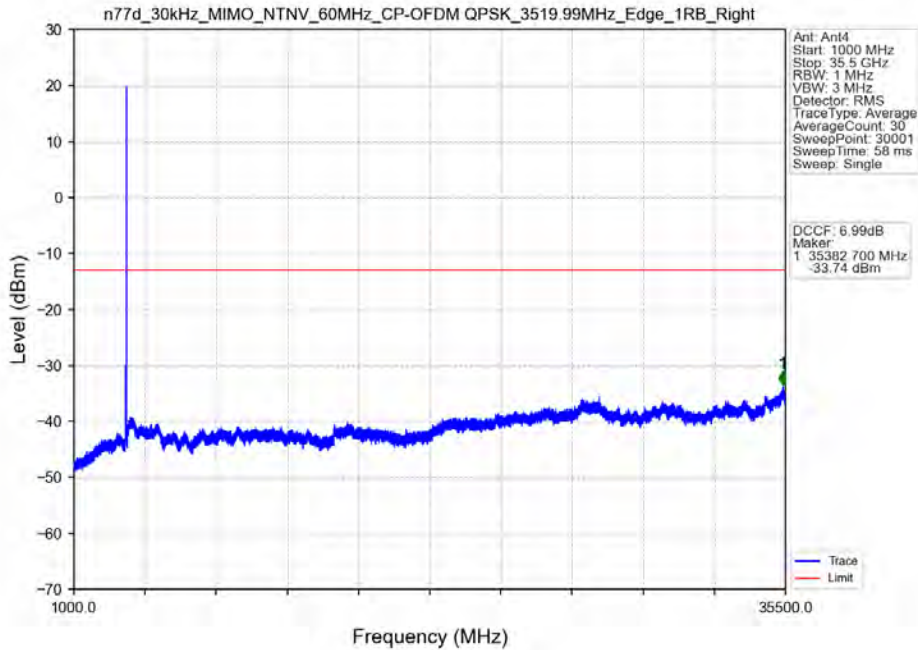
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n77d\_30kHz\_MIMO\_NTNV\_60MHz\_CP-OFDM QPSK\_3519.99MHz\_Edge\_1RB\_Right



n77d\_30kHz\_MIMO\_NTNV\_60MHz\_CP-OFDM QPSK\_3519.99MHz\_Edge\_1RB\_Right



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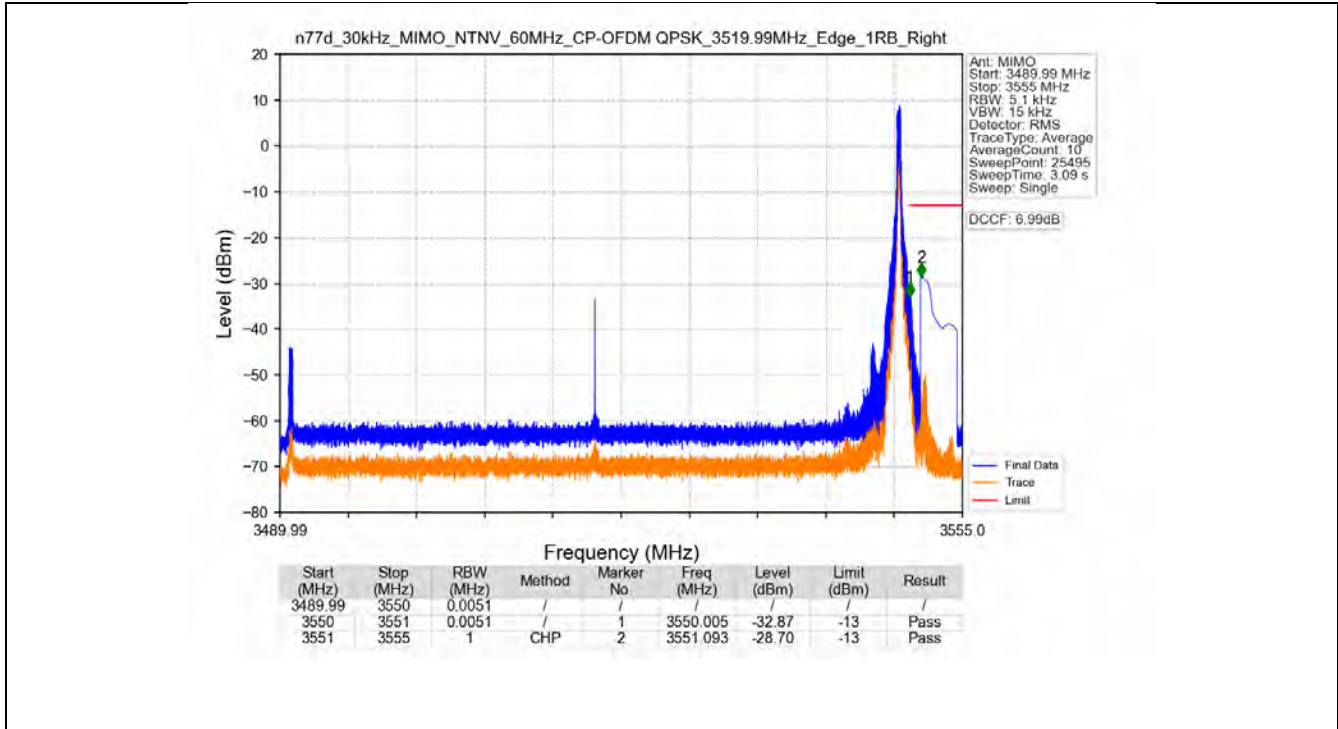


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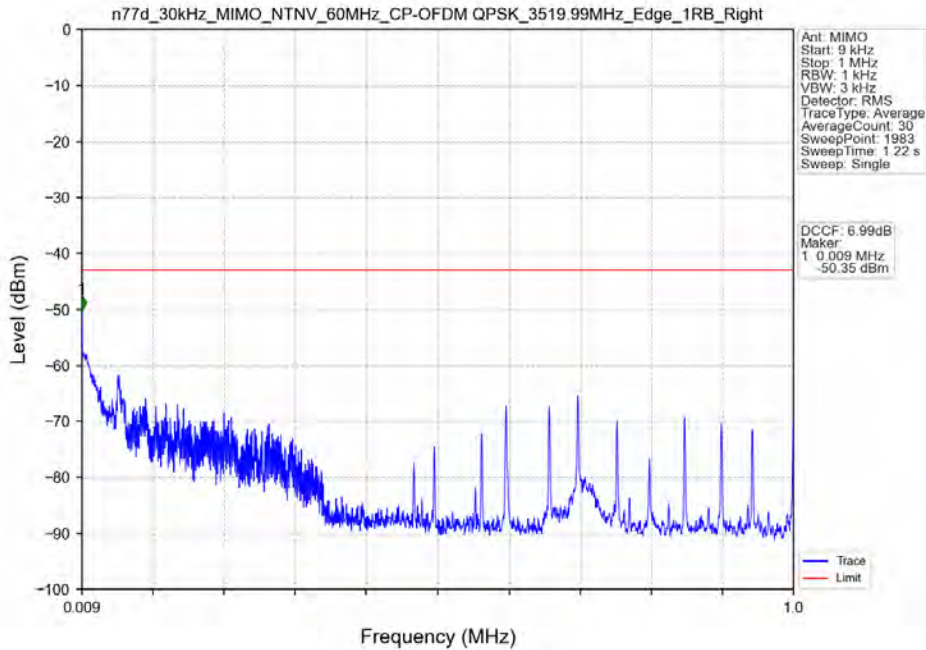
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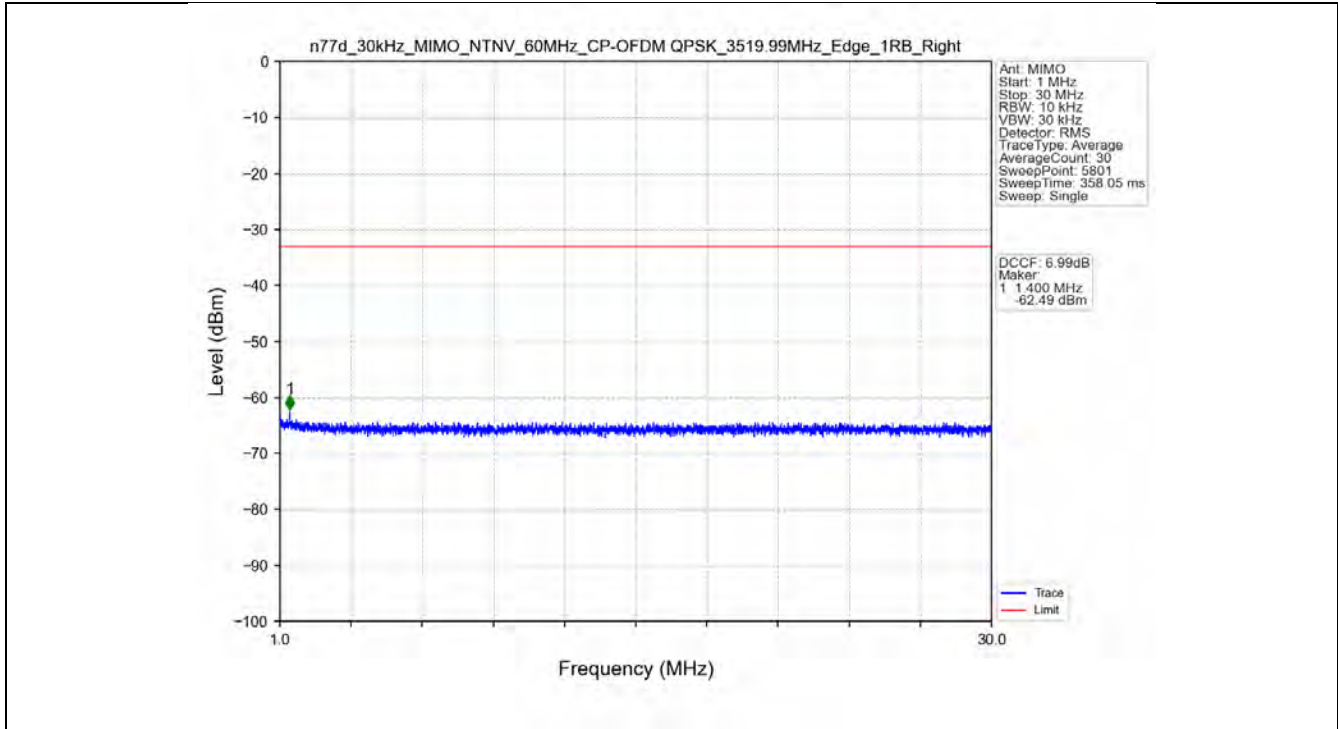


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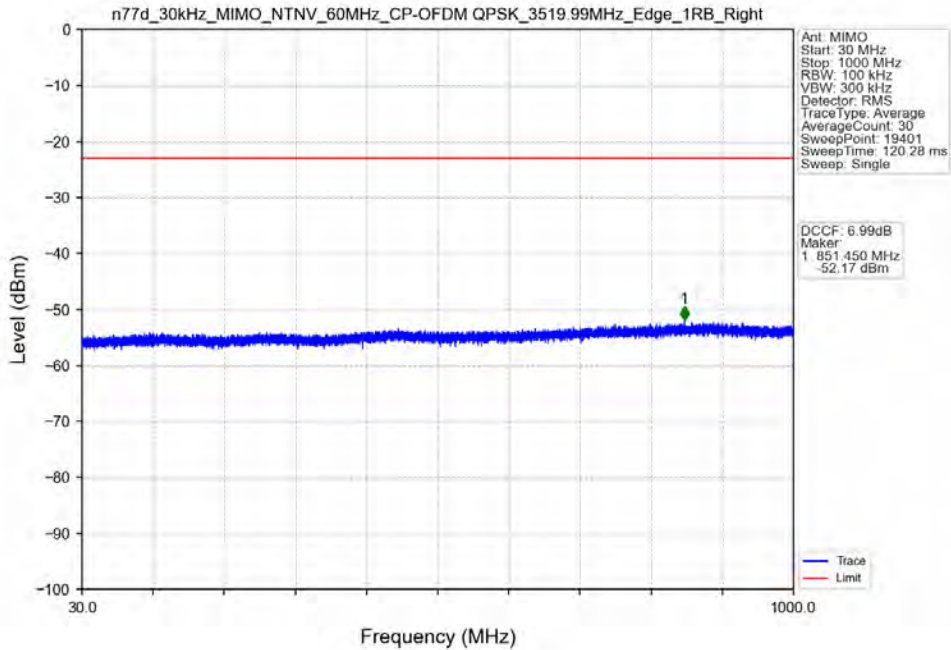
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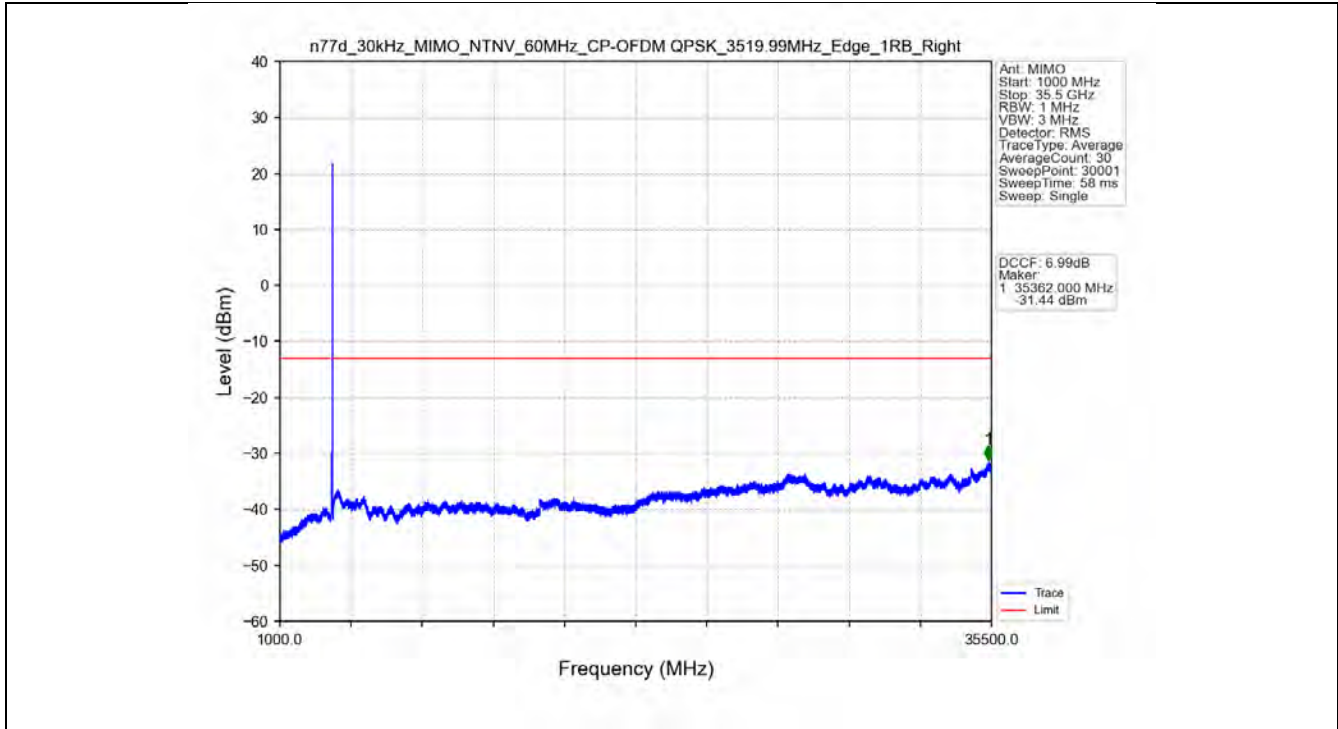


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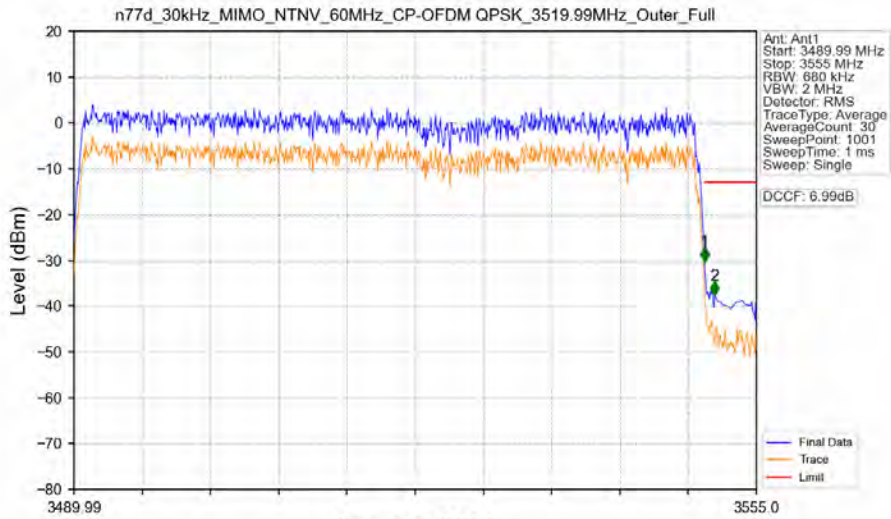
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n77d\_30kHz\_MIMO\_NTNV\_60MHz\_CP-OFDM\_QPSK\_3519.99MHz\_Outer\_Full



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 3489.99     | 3550       | 0.68      | /      | /         | /          | /           | /           | /      |
| 3550        | 3551       | 0.68      | /      | 1         | 3550.059   | -30.27      | -13         | Pass   |
| 3551        | 3555       | 1         | CHP    | 2         | 3551.034   | -37.74      | -13         | Pass   |

n77d\_30kHz\_MIMO\_NTNV\_60MHz\_CP-OFDM\_QPSK\_3519.99MHz\_Outer\_Full



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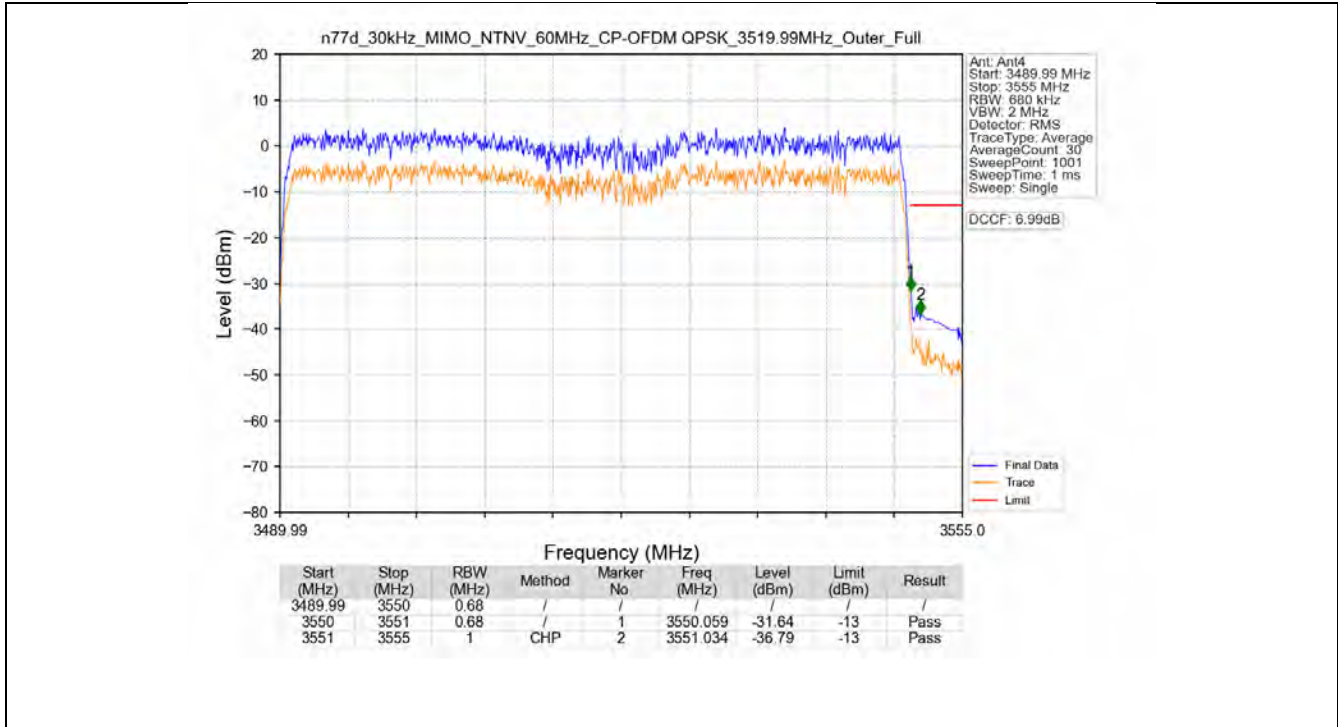


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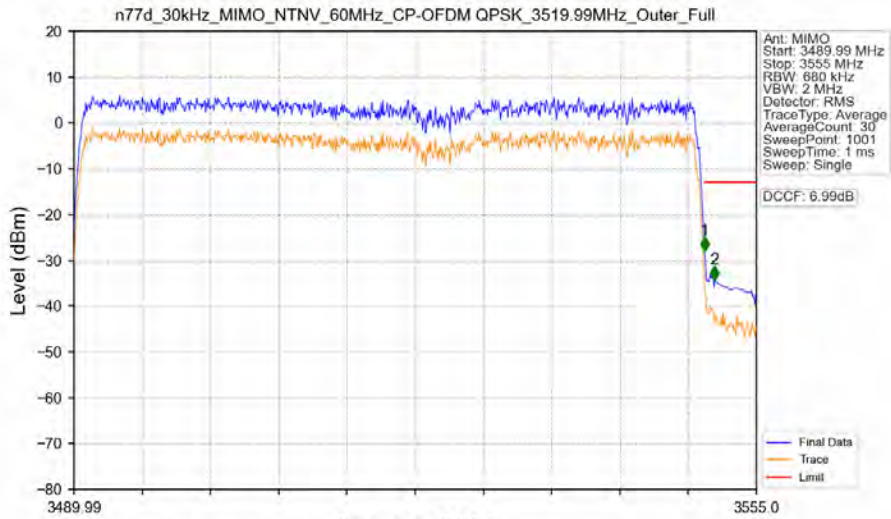
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| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 3489.99     | 3550       | 0.68      | /      | /         | /          | /           | /           | /      |
| 3550        | 3551       | 0.68      | /      | 1         | 3550.059   | -27.89      | -13         | Pass   |
| 3551        | 3555       | 1         | CHP    | 2         | 3551.034   | -34.23      | -13         | Pass   |

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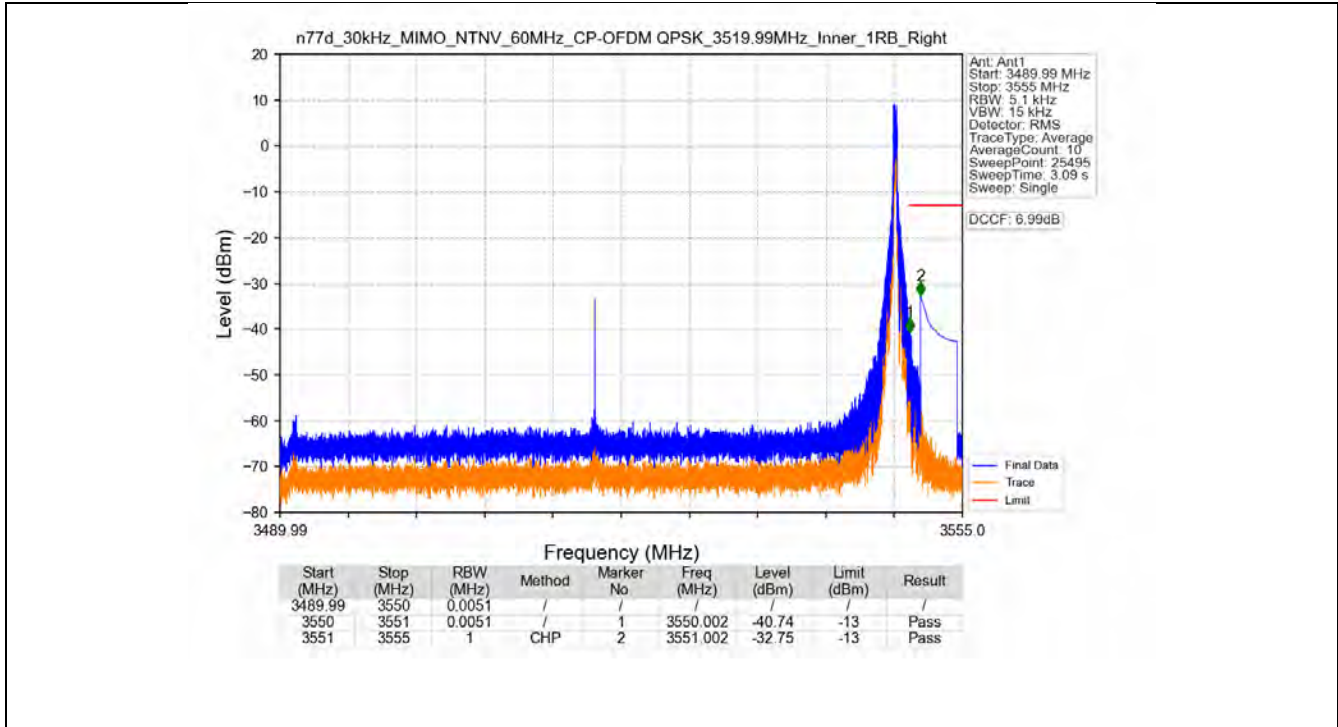


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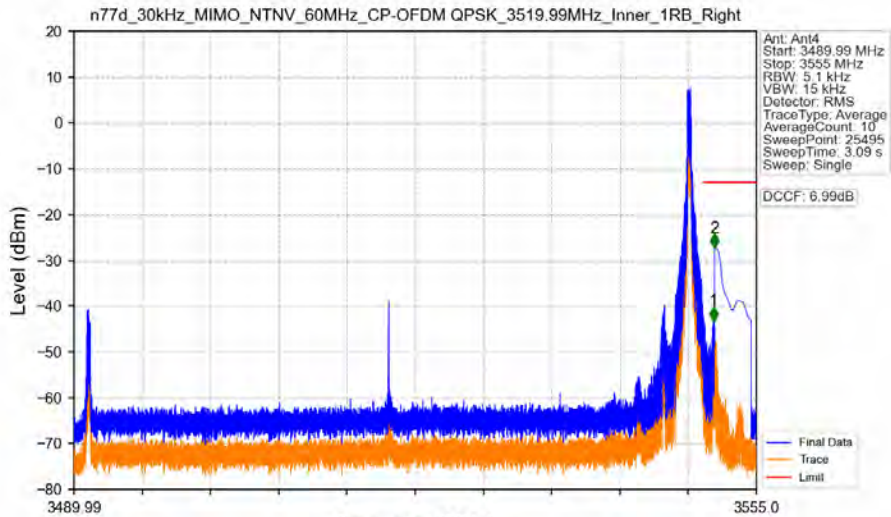
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| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 3489.99     | 3550       | 0.0051    | /      | /         | /          | /           | /           | /      |
| 3550        | 3551       | 0.0051    | /      | 1         | 3550.910   | -43.24      | -13         | Pass   |
| 3551        | 3555       | 1         | CHP    | 2         | 3551.002   | -27.30      | -13         | Pass   |

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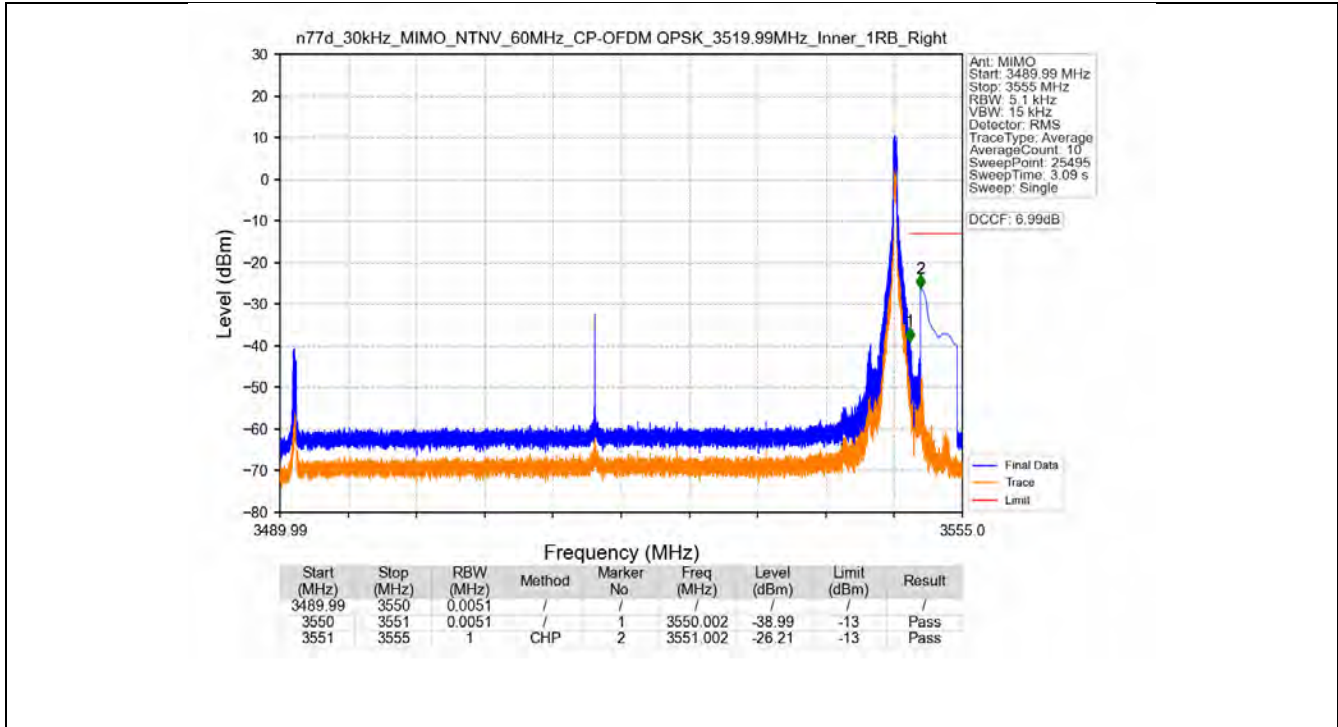


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## 5.11 30k\_MIMO\_80MHz\_NTNV

### 5.11.1 Test Result

| 5G NR n77d SCS=30kHz MIMO 80MHz NNTV |                 |                     |                     |      |     |       |         |
|--------------------------------------|-----------------|---------------------|---------------------|------|-----|-------|---------|
| Modulation                           | Frequency (MHz) | RB Allocation       | Spurious Emission   |      |     |       | Verdict |
|                                      |                 |                     | Ant1                | Ant4 | Sum | Limit |         |
| CP-OFDM<br>QPSK                      | 3490.02         | Edge_1RB_Left       | Refer To Test Graph |      |     |       | Pass    |
|                                      |                 |                     | Refer To Test Graph |      |     |       | Pass    |
|                                      |                 |                     | Refer To Test Graph |      |     |       | Pass    |
|                                      |                 | Outer_Full          | Refer To Test Graph |      |     |       | Pass    |
|                                      |                 |                     | Refer To Test Graph |      |     |       | Pass    |
|                                      |                 |                     | Refer To Test Graph |      |     |       | Pass    |
|                                      | 3510            | Inner_1RB_Left      | Refer To Test Graph |      |     |       | Pass    |
|                                      |                 |                     | Refer To Test Graph |      |     |       | Pass    |
|                                      |                 |                     | Refer To Test Graph |      |     |       | Pass    |
|                                      |                 | Edge_1RB_Right      | Refer To Test Graph |      |     |       | Pass    |
|                                      |                 |                     | Refer To Test Graph |      |     |       | Pass    |
|                                      |                 |                     | Refer To Test Graph |      |     |       | Pass    |
|                                      | Outer_Full      | Refer To Test Graph |                     |      |     | Pass  |         |
|                                      |                 | Refer To Test Graph |                     |      |     | Pass  |         |
|                                      |                 | Refer To Test Graph |                     |      |     | Pass  |         |
|                                      | Inner_1RB_Right | Refer To Test Graph |                     |      |     | Pass  |         |
| Refer To Test Graph                  |                 |                     |                     | Pass |     |       |         |



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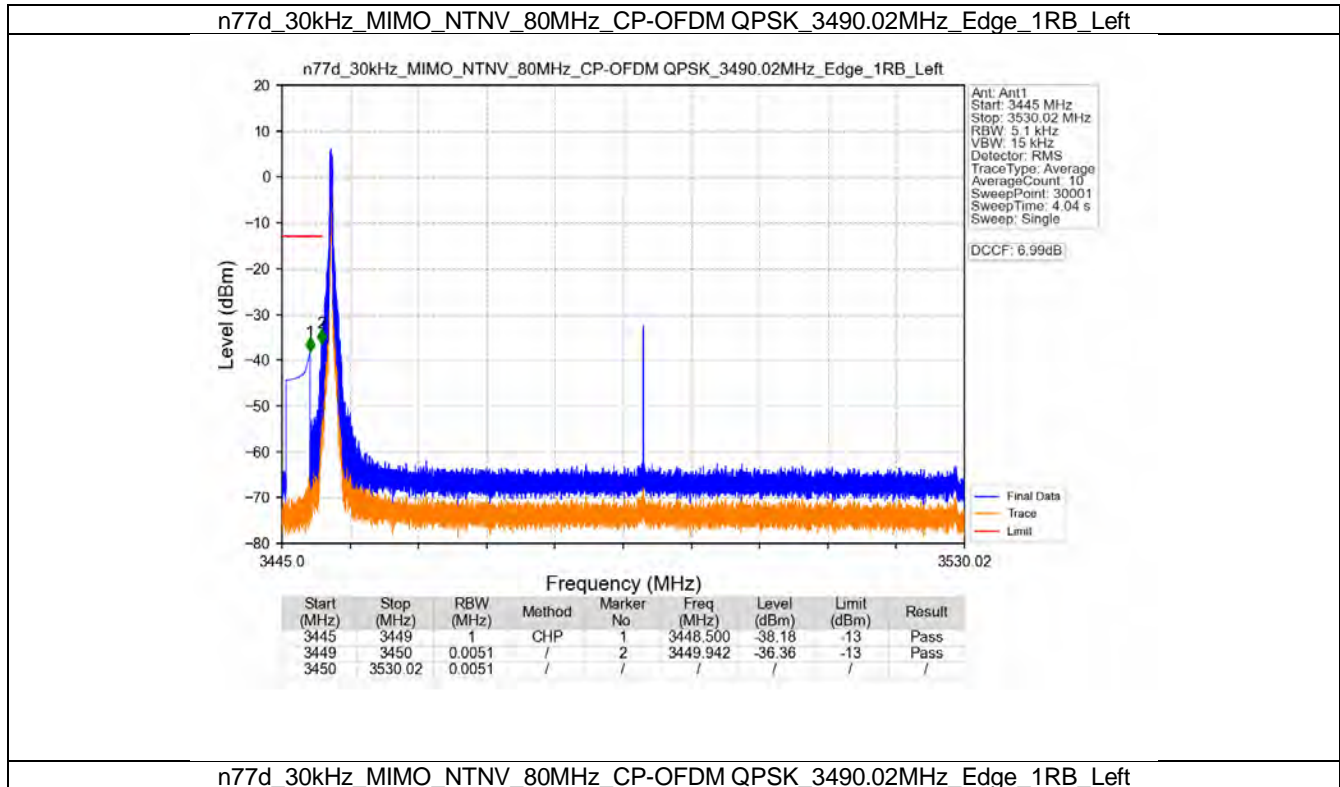
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5.11.2 Test Graph



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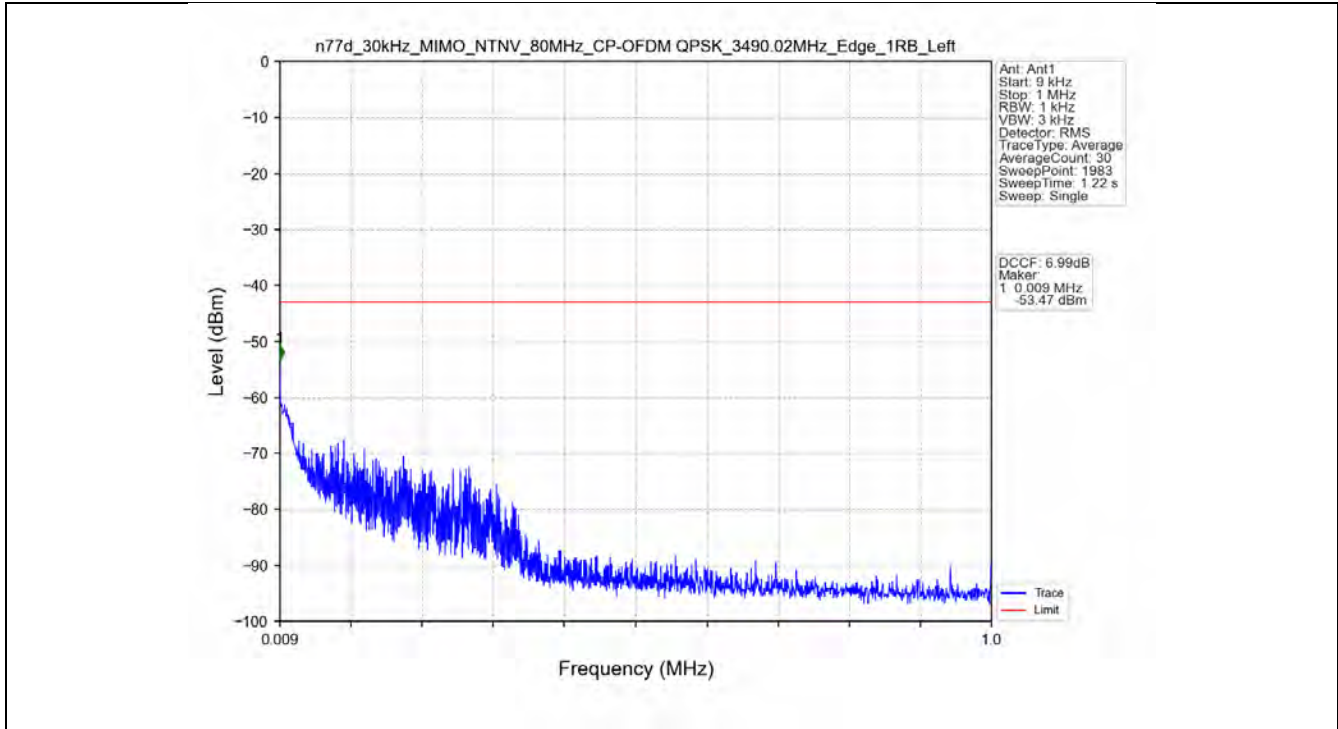


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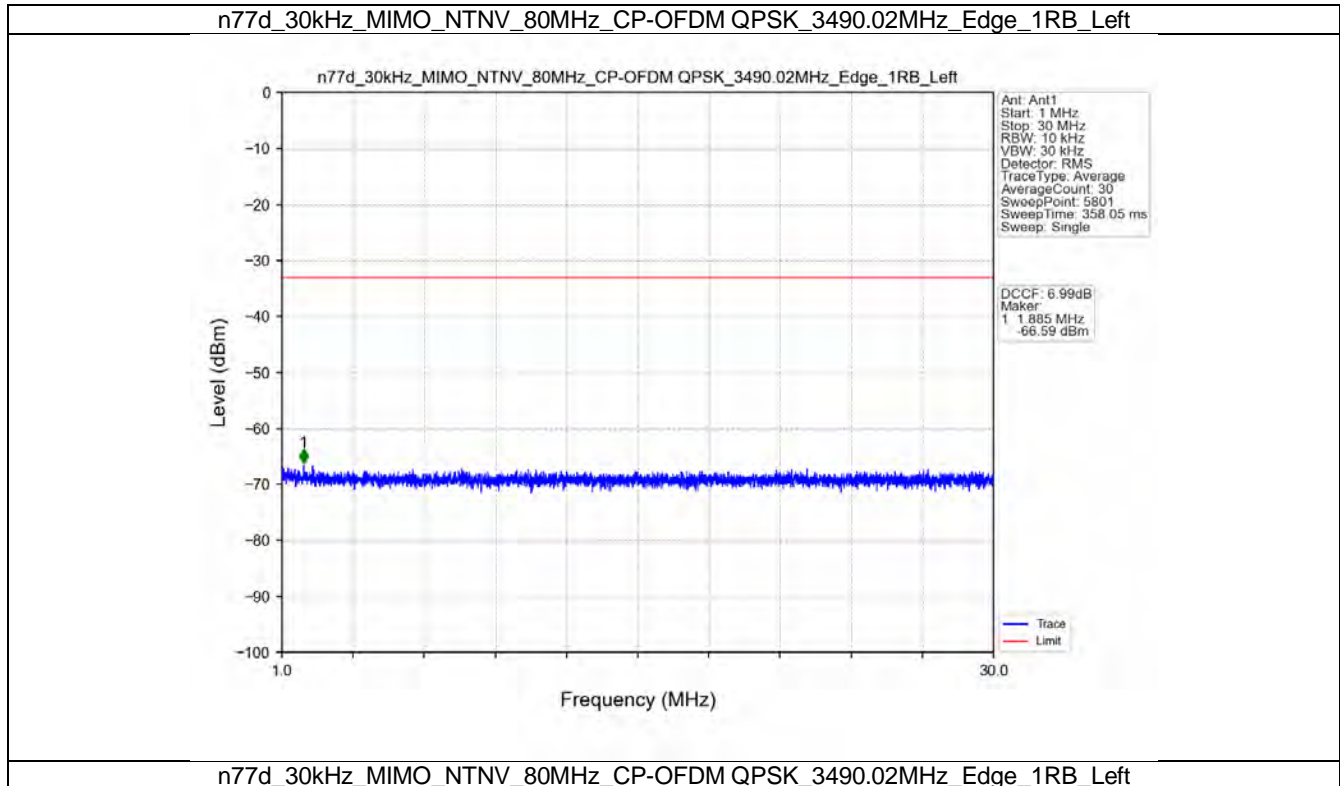


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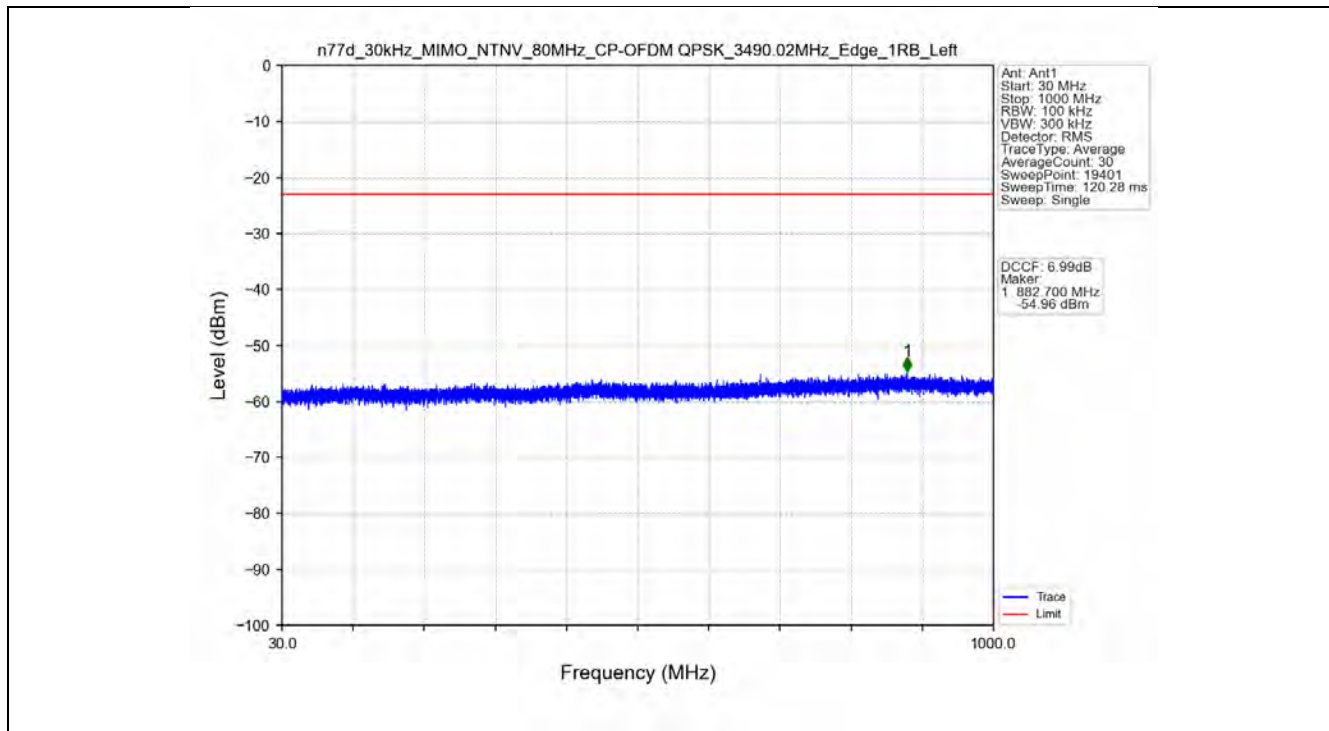
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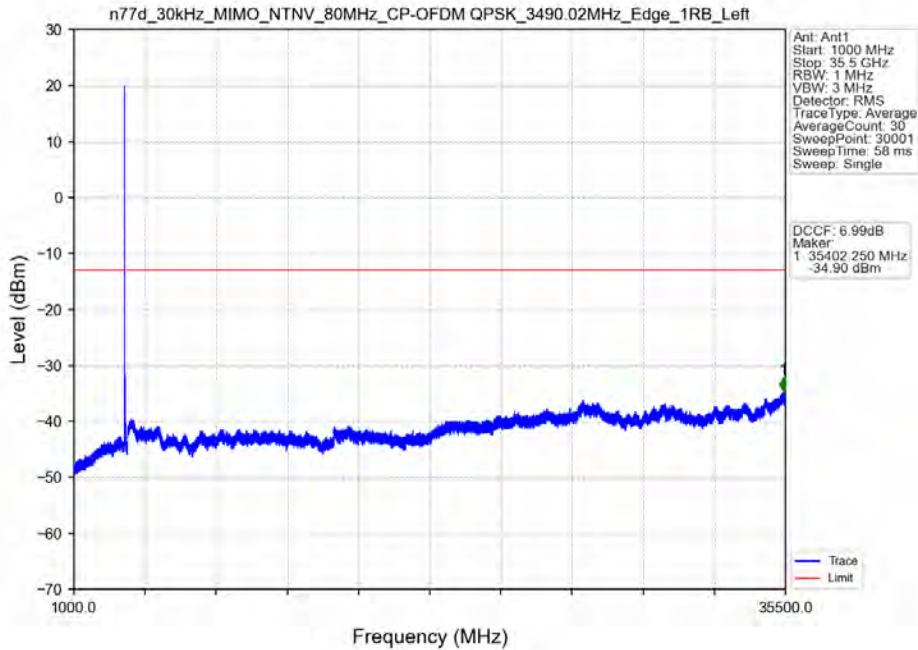
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n77d\_30kHz\_MIMO\_NTNV\_80MHz\_CP-OFDM QPSK\_3490.02MHz\_Edge\_1RB\_Left



n77d\_30kHz\_MIMO\_NTNV\_80MHz\_CP-OFDM QPSK\_3490.02MHz\_Edge\_1RB\_Left



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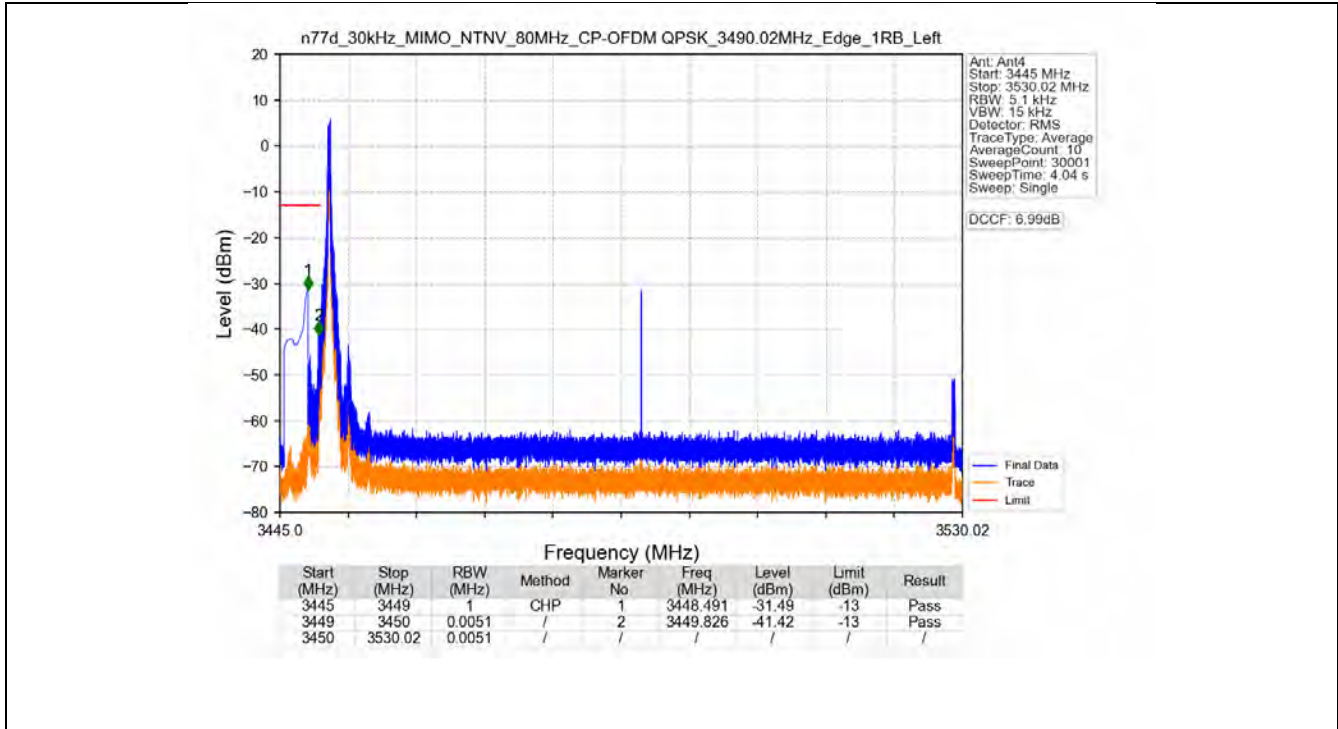


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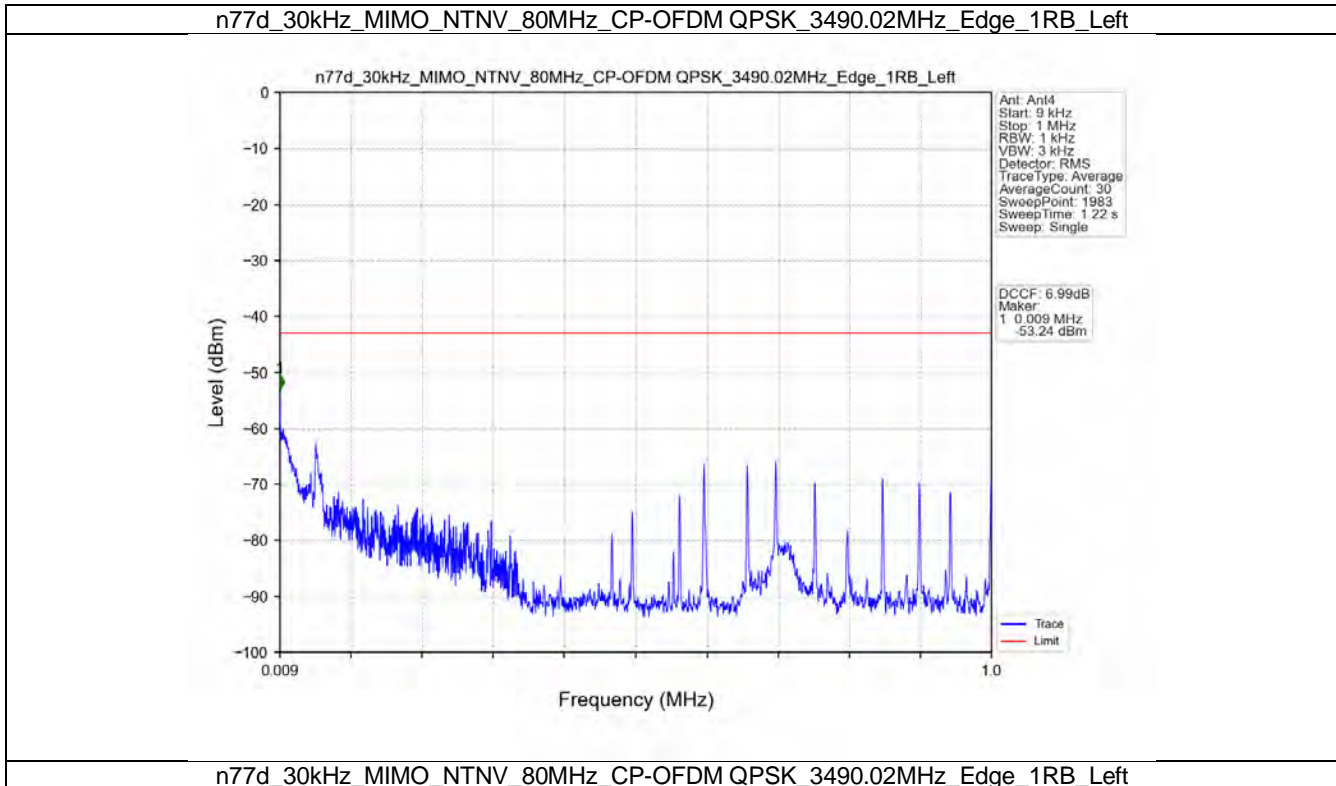


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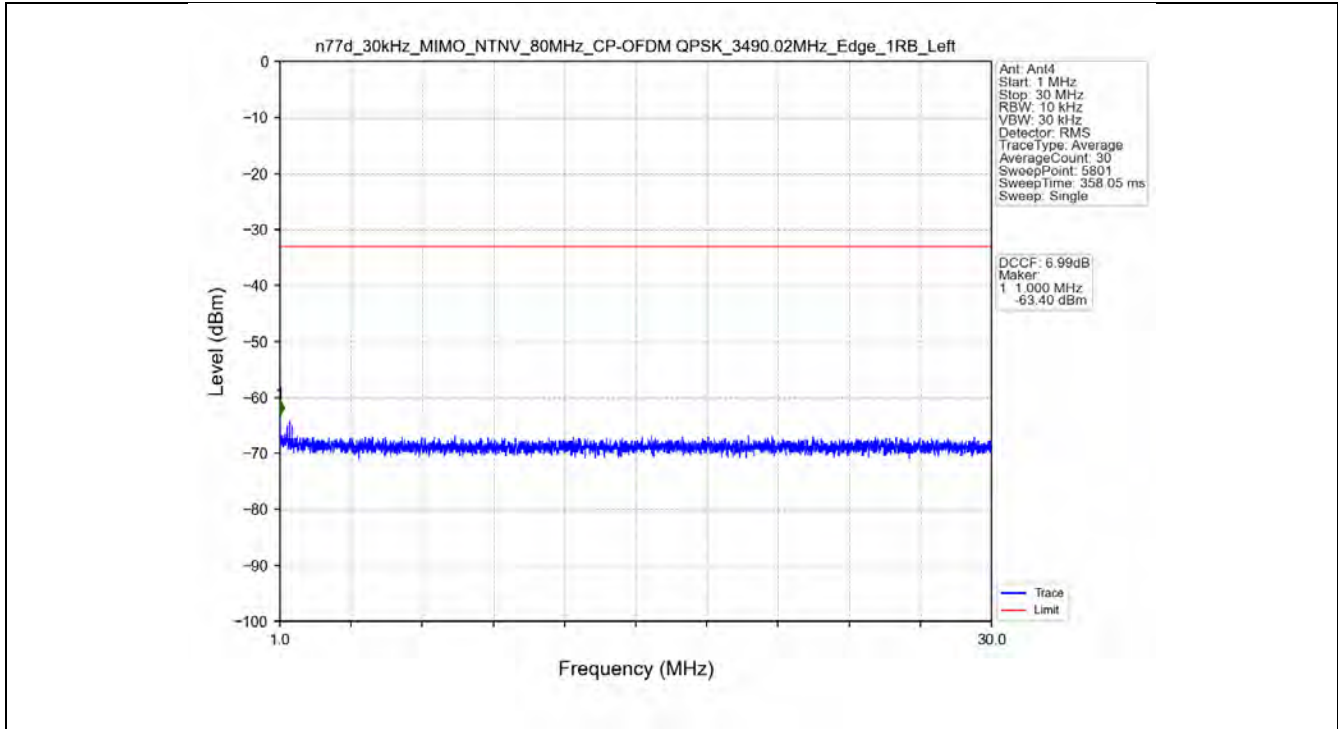


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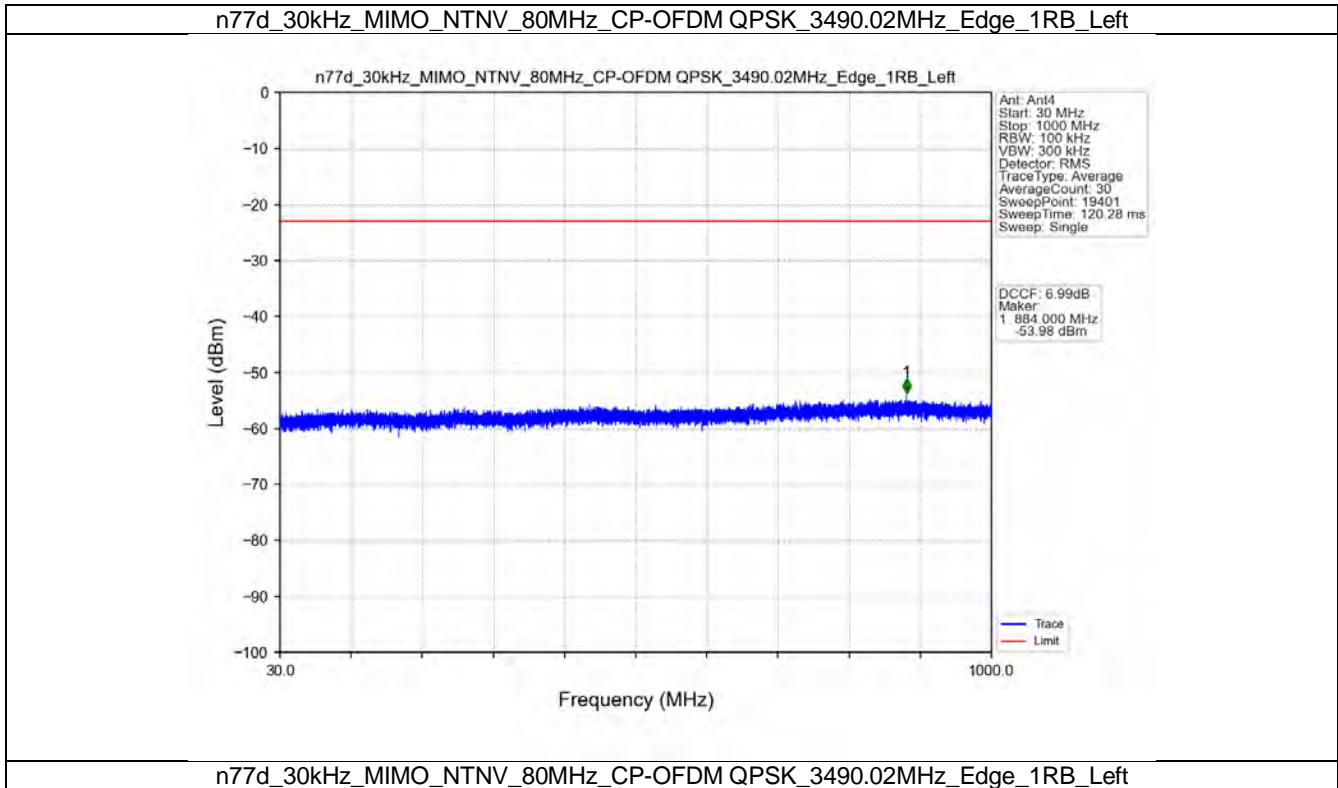


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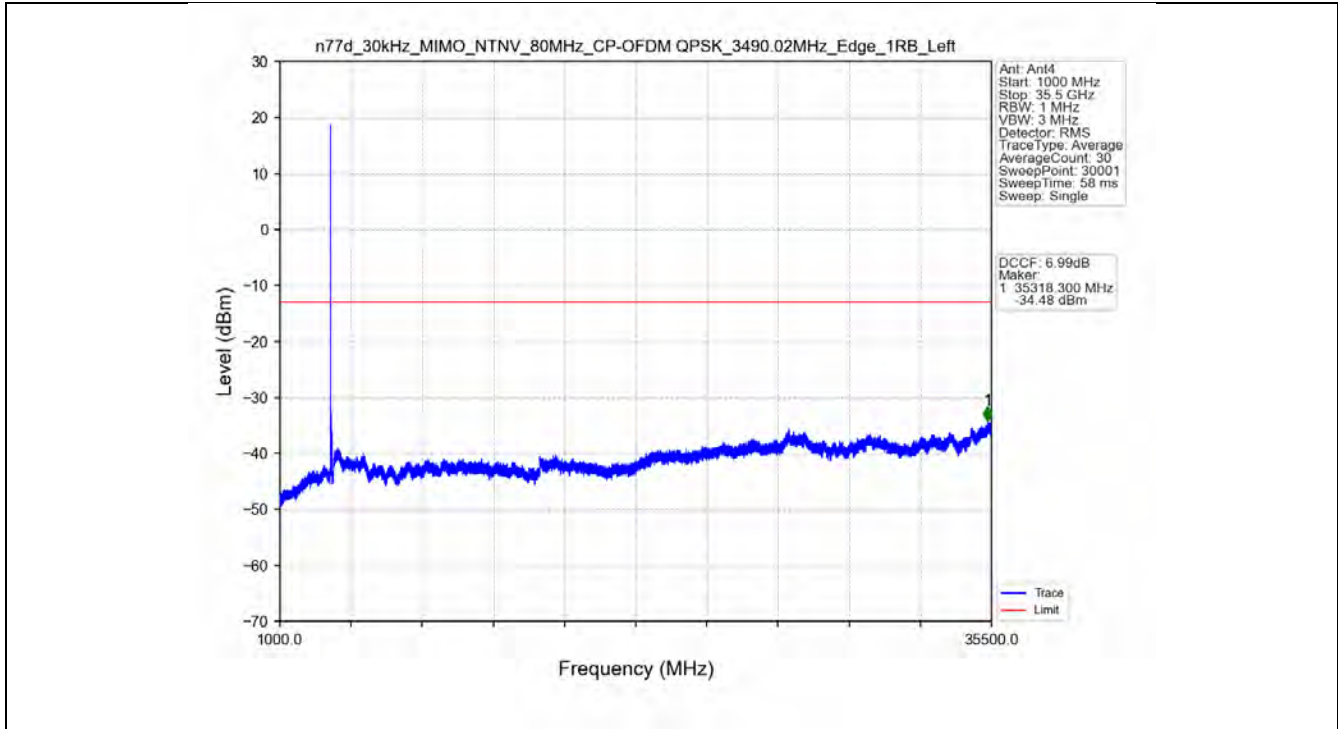


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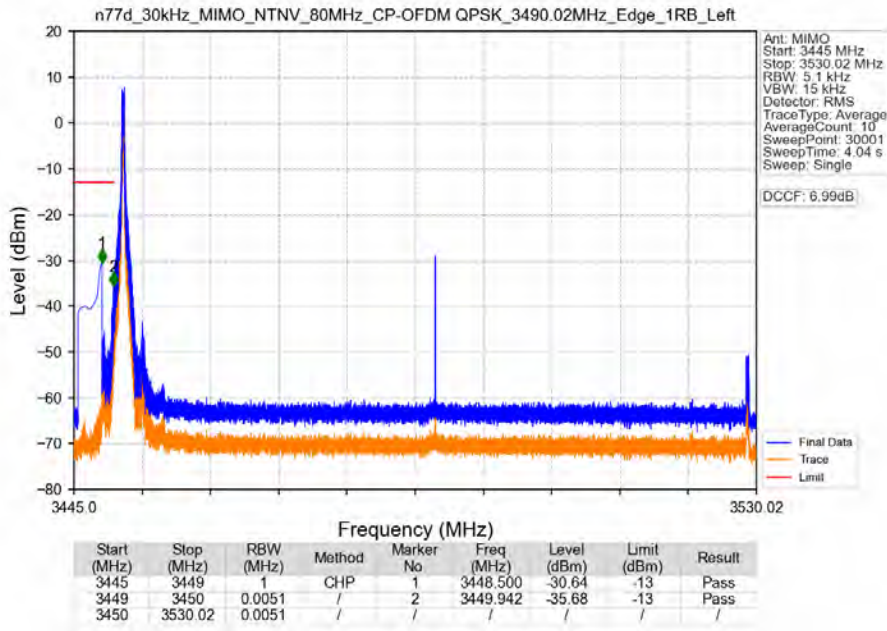
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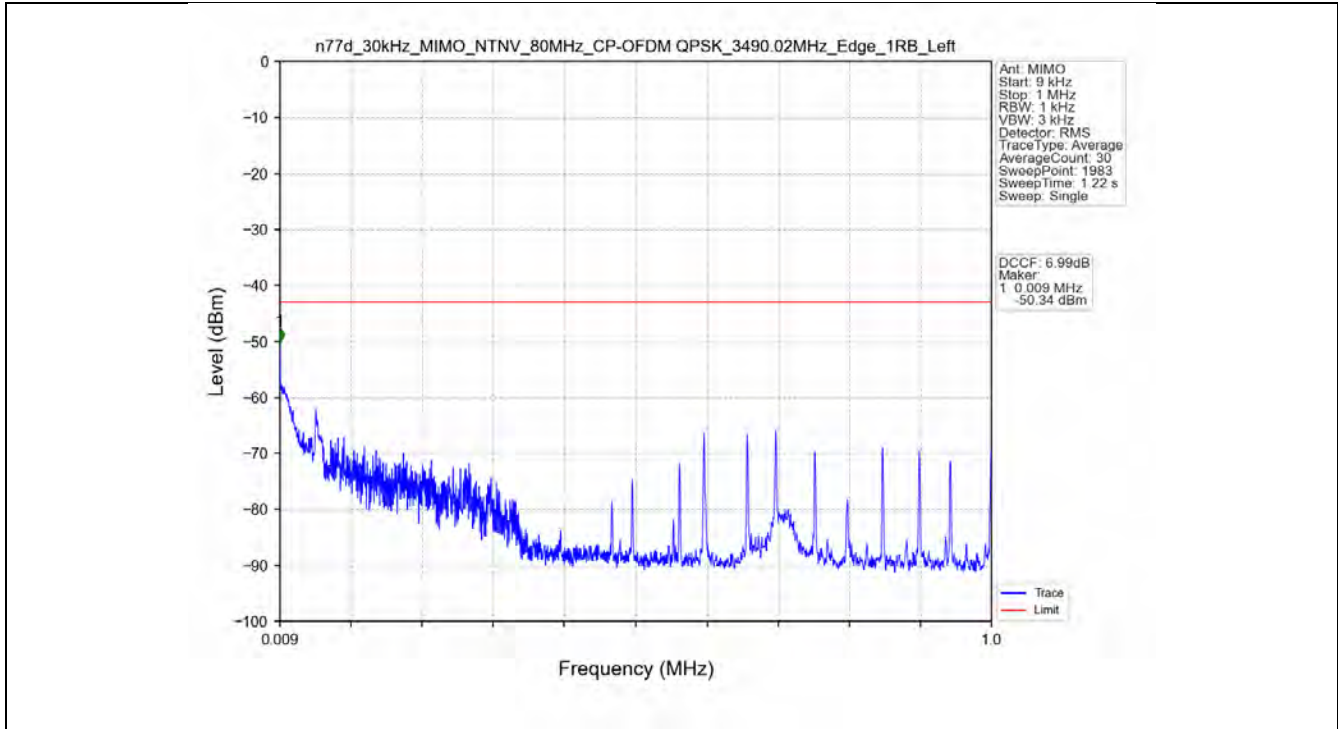


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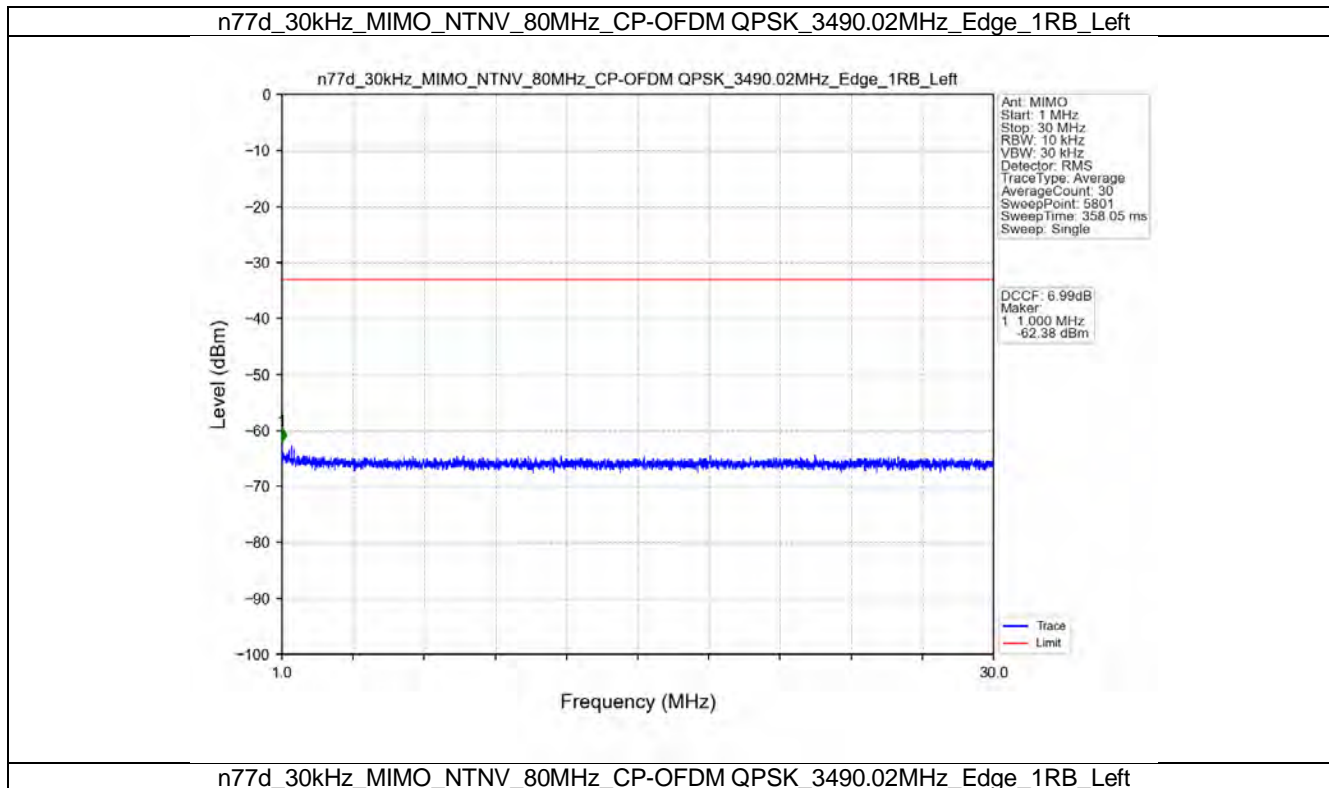
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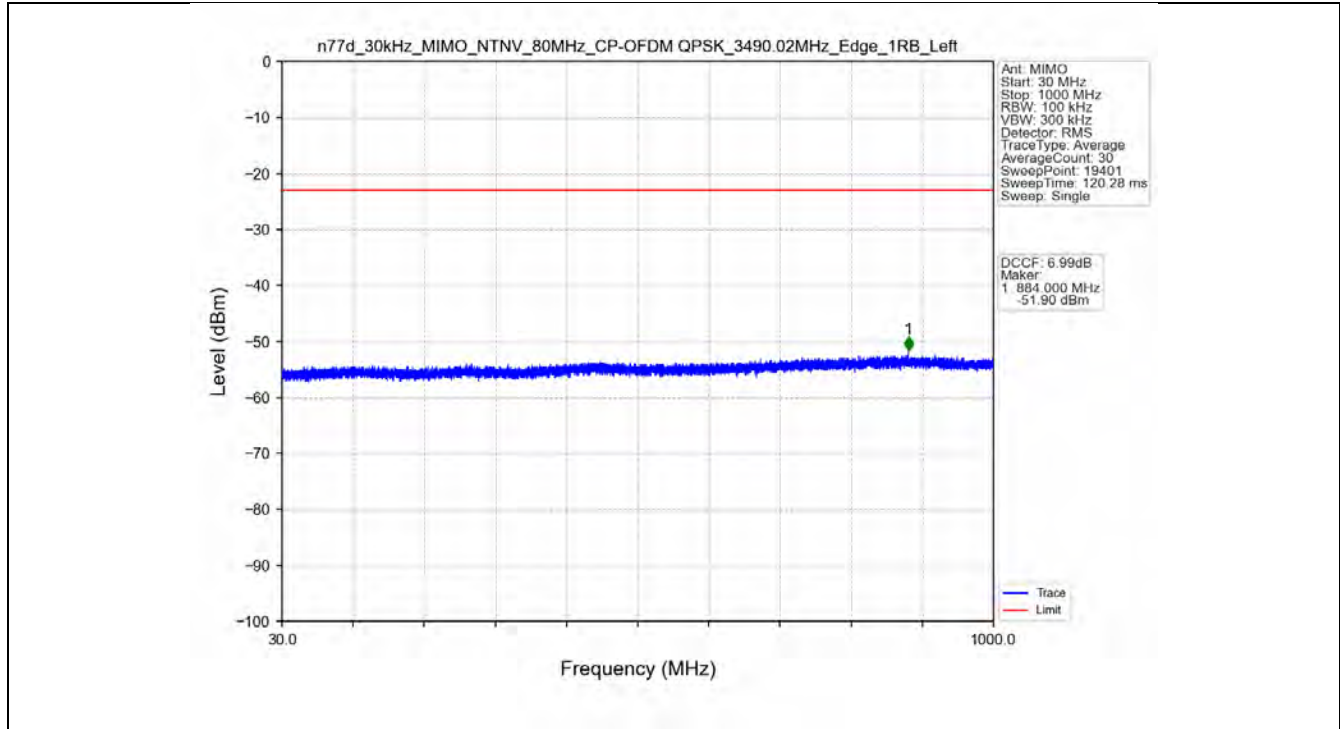
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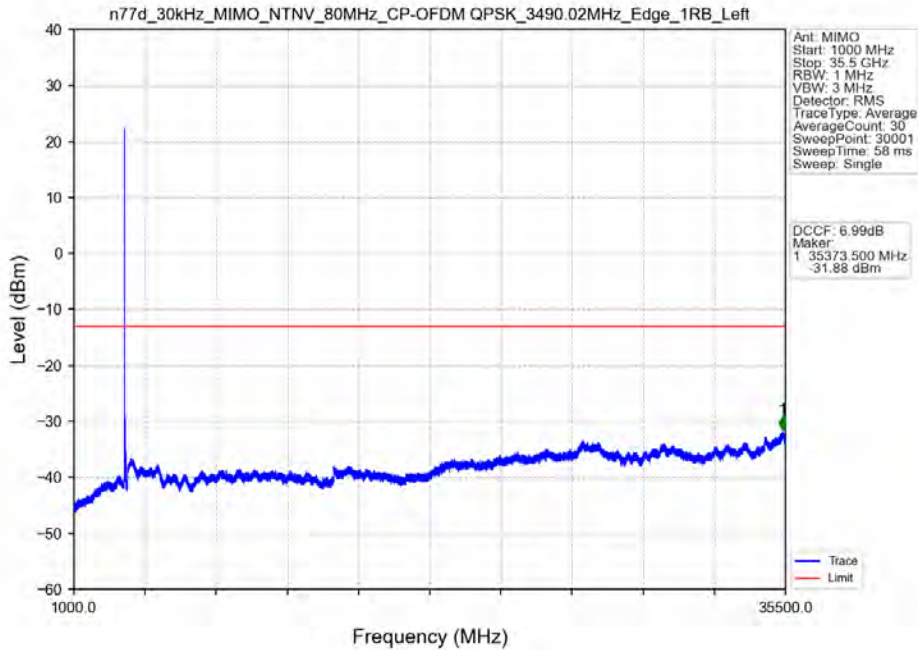
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n77d\_30kHz\_MIMO\_NTNV\_80MHz\_CP-OFDM QPSK\_3490.02MHz\_Edge\_1RB\_Left



n77d\_30kHz\_MIMO\_NTNV\_80MHz\_CP-OFDM QPSK\_3490.02MHz\_Outer\_Full



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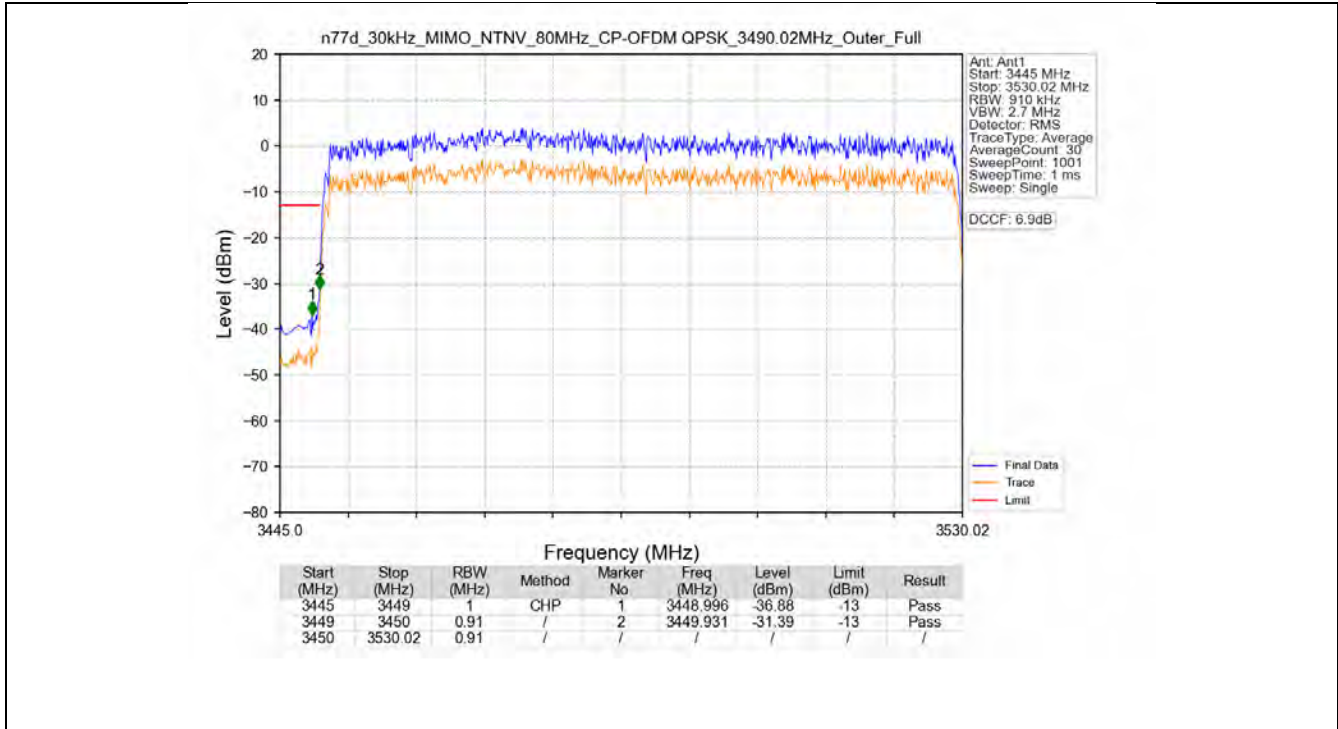


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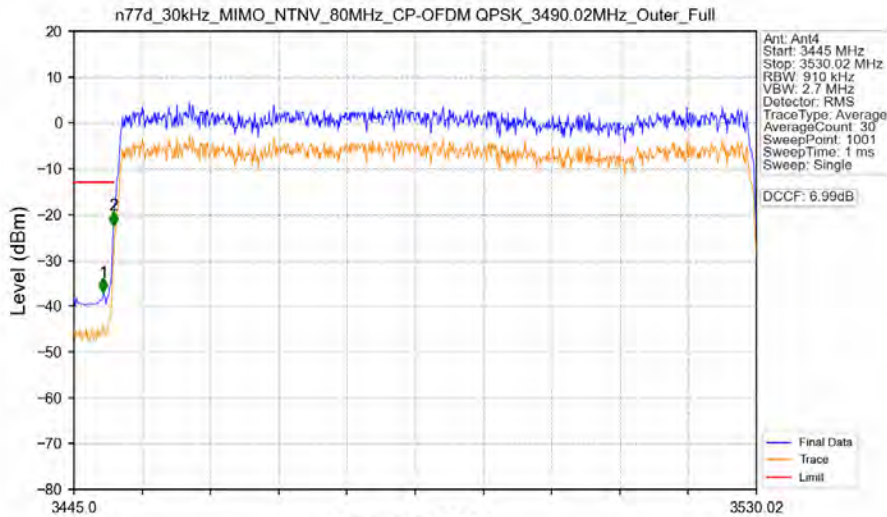
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n77d\_30kHz\_MIMO\_NTNV\_80MHz\_CP-OFDM QPSK\_3490.02MHz\_Outer\_Full



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 3445        | 3449       | 1         | CHP    | 1         | 3448.656   | -37.00      | -13         | Pass   |
| 3449        | 3450       | 0.91      | /      | 2         | 3449.931   | -22.44      | -13         | Pass   |
| 3450        | 3530.02    | 0.91      | /      | /         | /          | /           | /           | /      |

n77d\_30kHz\_MIMO\_NTNV\_80MHz\_CP-OFDM QPSK\_3490.02MHz\_Outer\_Full



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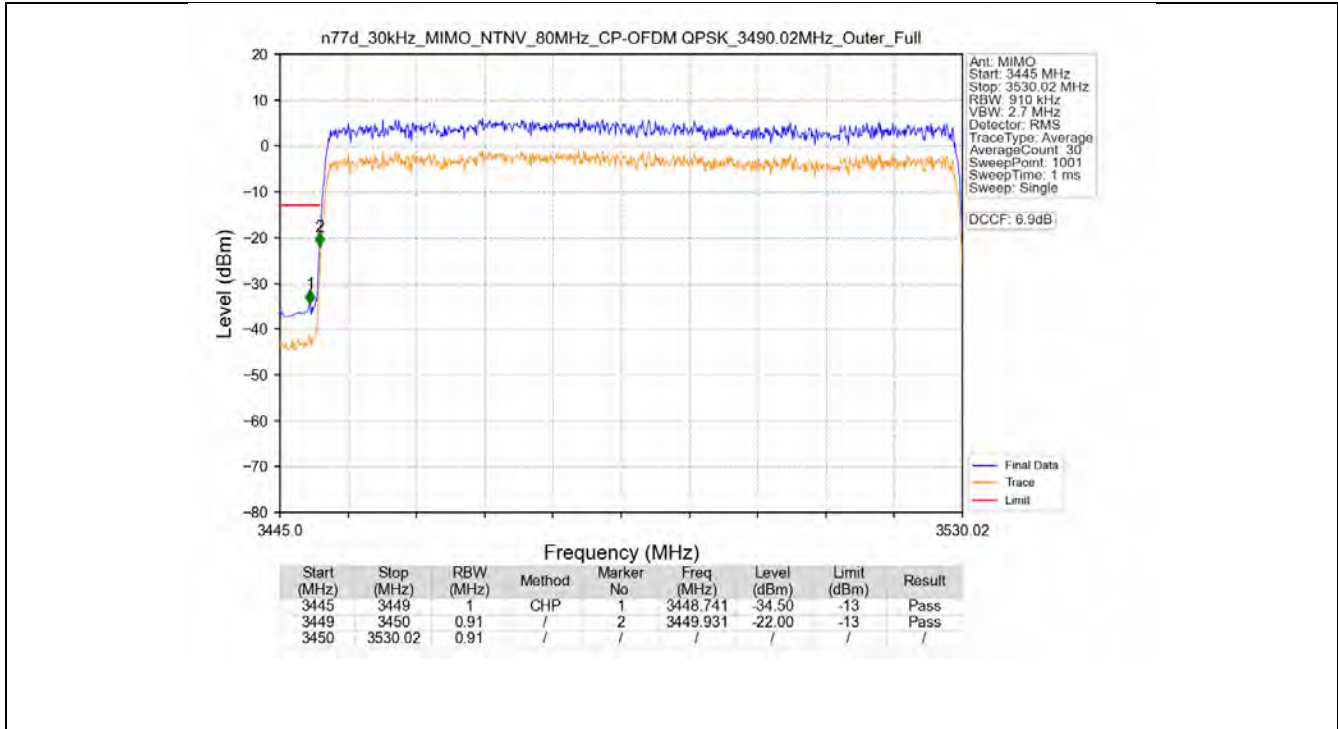


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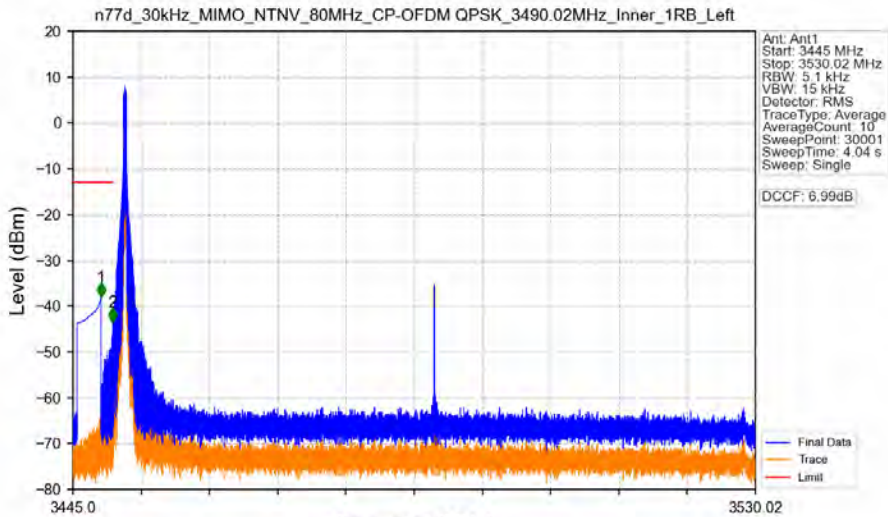
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n77d\_30kHz\_MIMO\_NTNV\_80MHz\_CP-OFDM QPSK\_3490.02MHz\_Inner\_1RB\_Left



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 3445        | 3449       | 1         | CHP    | 1         | 3448.500   | -38.03      | -13         | Pass   |
| 3449        | 3450       | 0.0051    | /      | 2         | 3449.965   | -43.45      | -13         | Pass   |
| 3450        | 3530.02    | 0.0051    | /      | /         | /          | /           | /           | /      |

n77d\_30kHz\_MIMO\_NTNV\_80MHz\_CP-OFDM QPSK\_3490.02MHz\_Inner\_1RB\_Left



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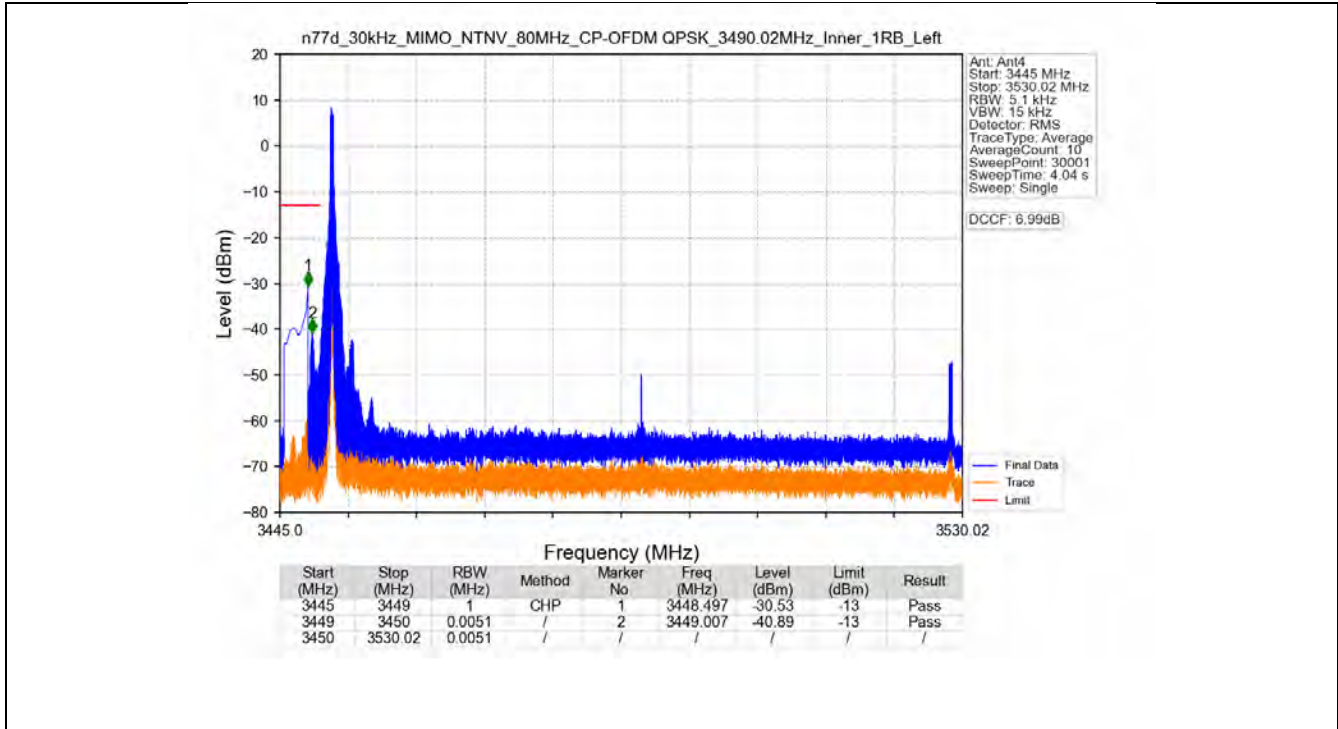


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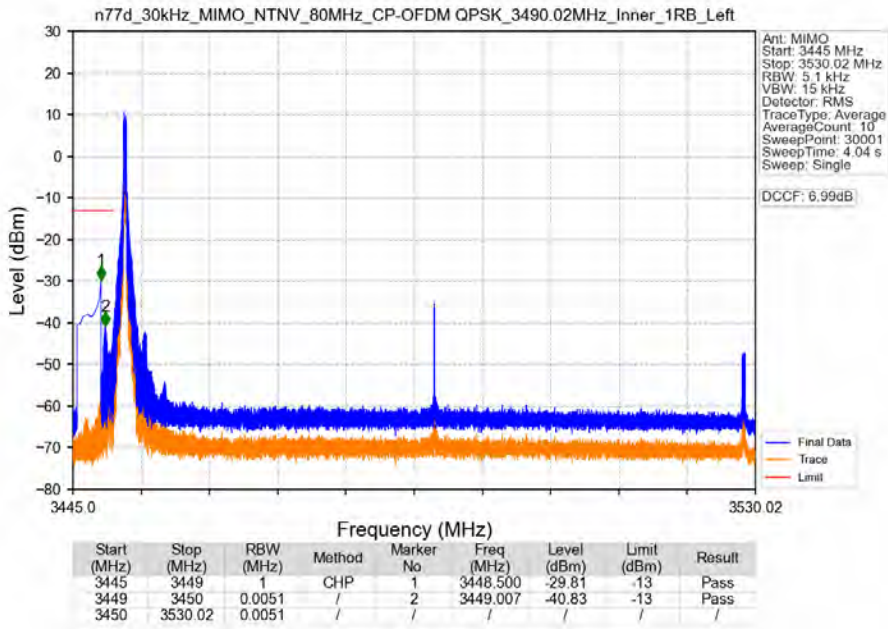
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n77d\_30kHz\_MIMO\_NTNV\_80MHz\_CP-OFDM QPSK\_3490.02MHz\_Inner\_1RB\_Left



n77d\_30kHz\_MIMO\_NTNV\_80MHz\_CP-OFDM QPSK\_3510MHz\_Edge\_1RB\_Right



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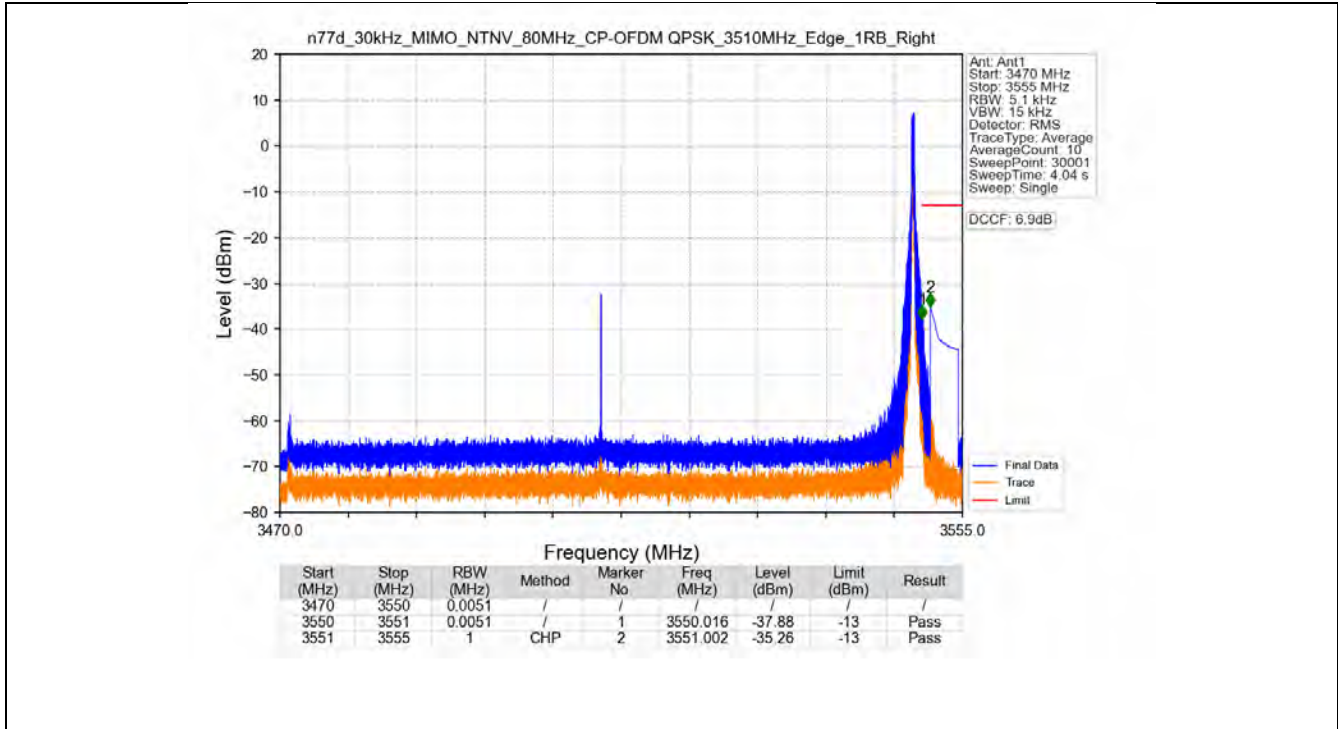


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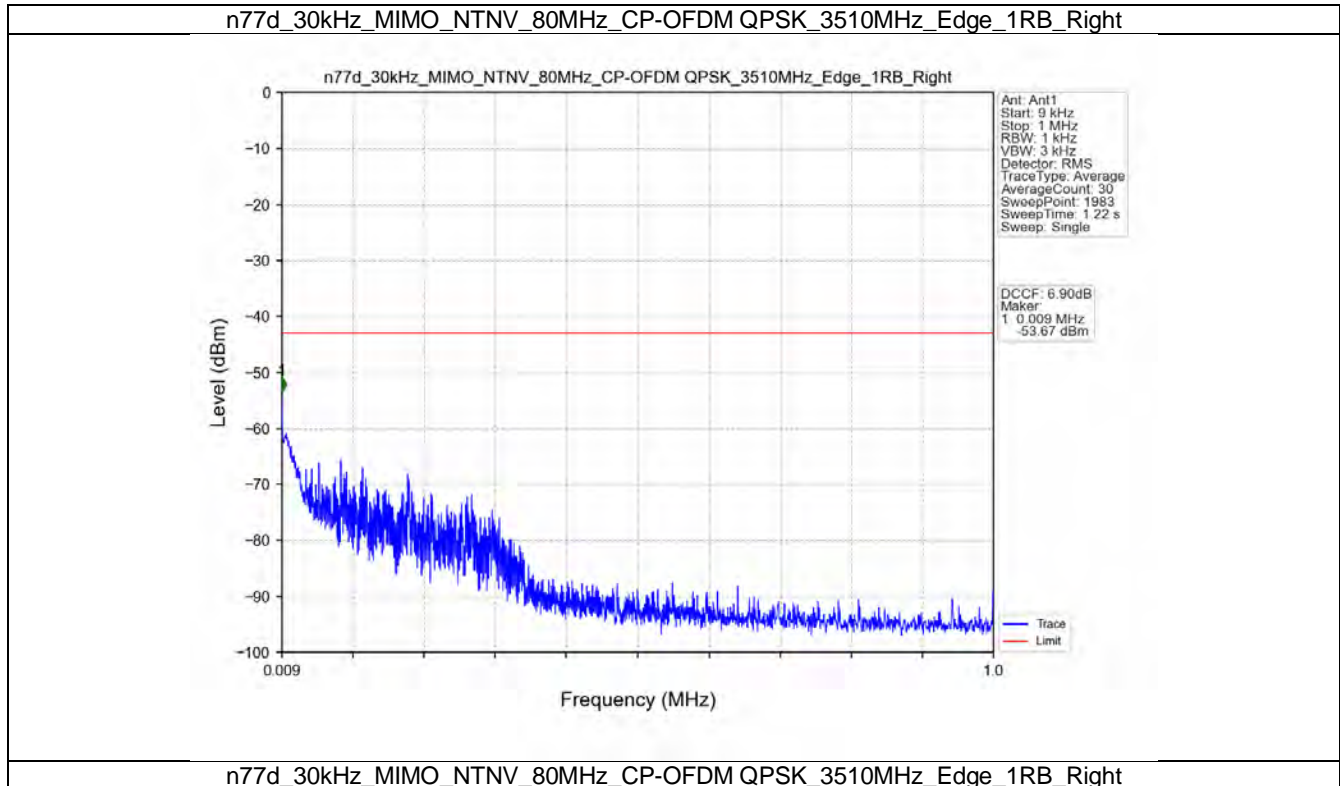


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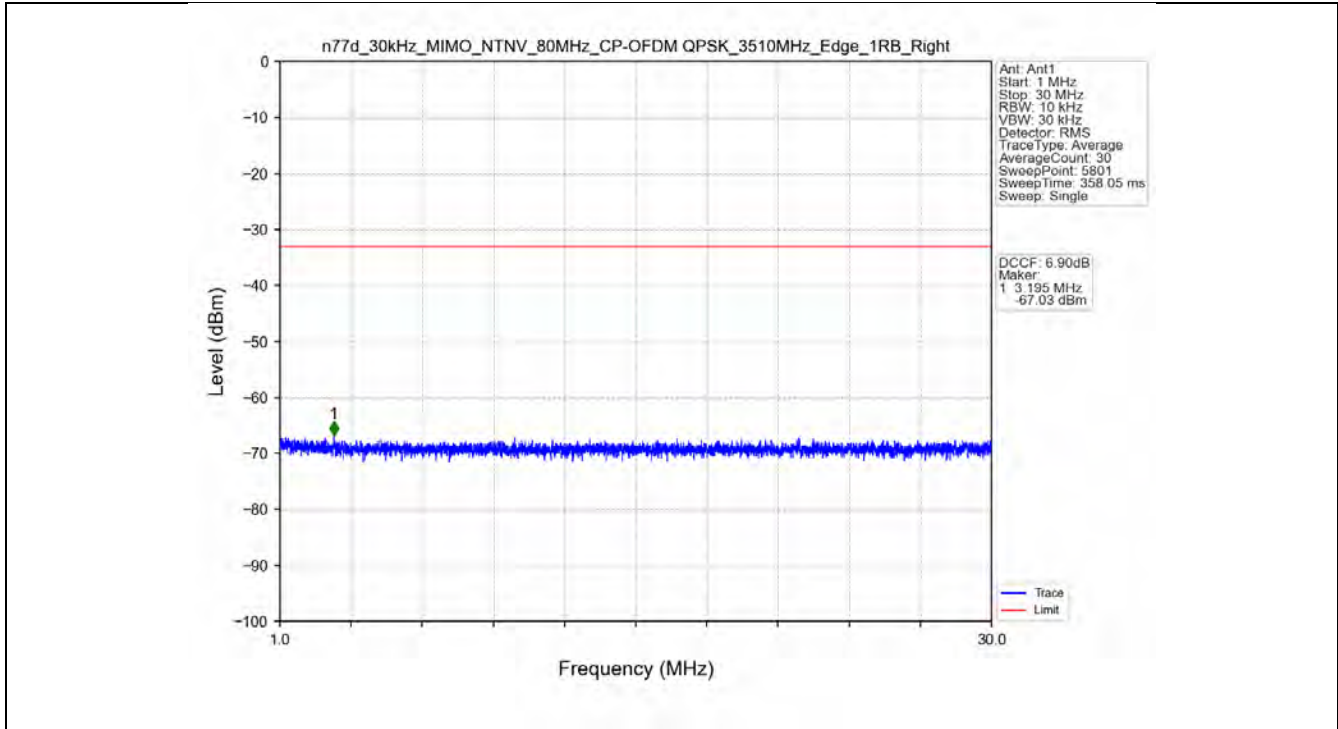


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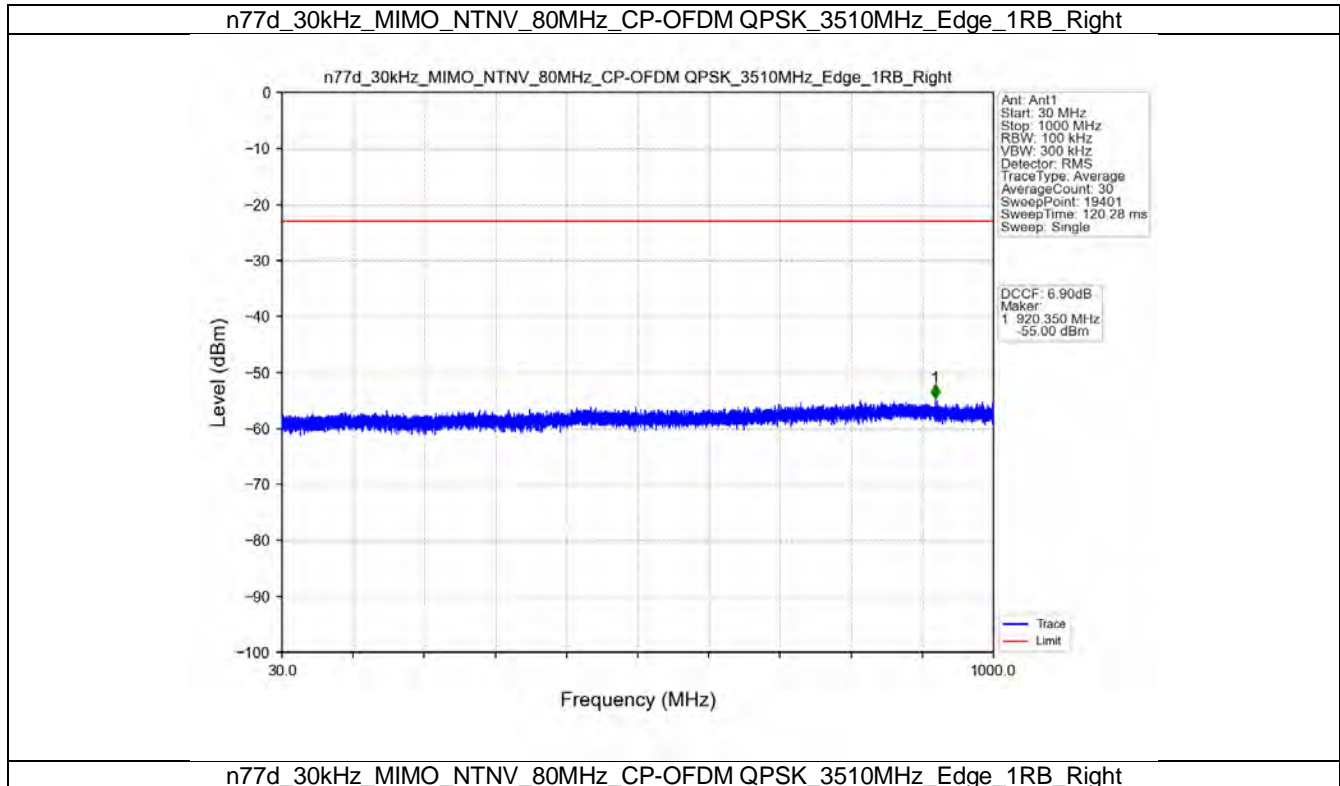


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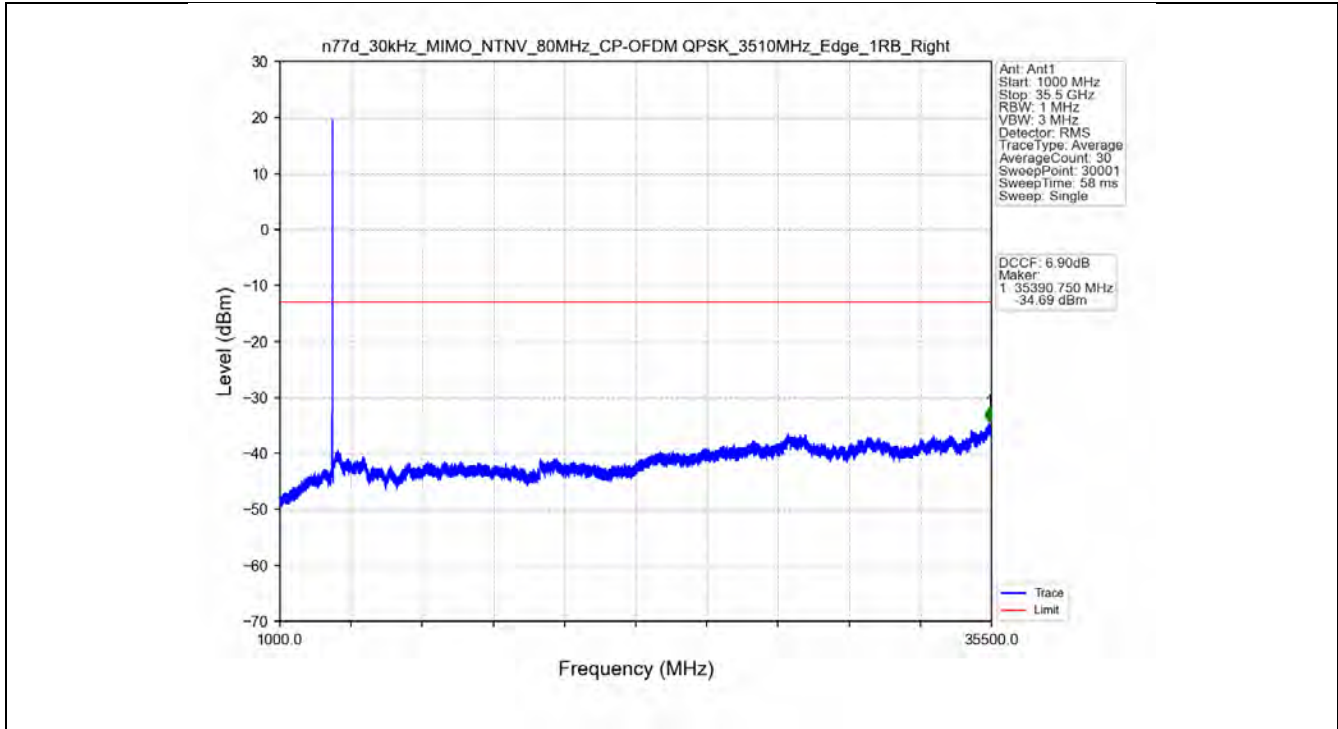


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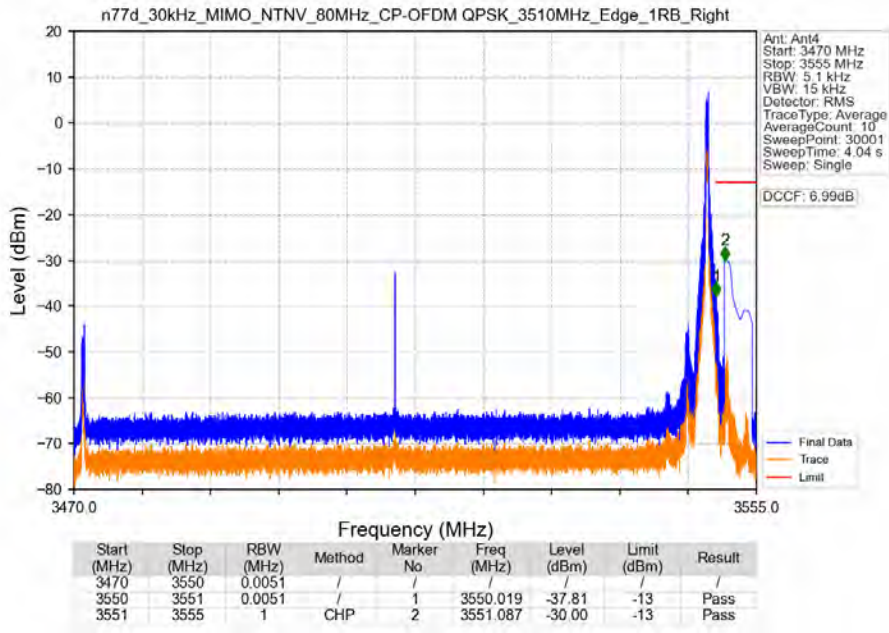
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n77d\_30kHz\_MIMO\_NTNV\_80MHz\_CP-OFDM\_QPSK\_3510MHz\_Edge\_1RB\_Right



n77d\_30kHz\_MIMO\_NTNV\_80MHz\_CP-OFDM\_QPSK\_3510MHz\_Edge\_1RB\_Right



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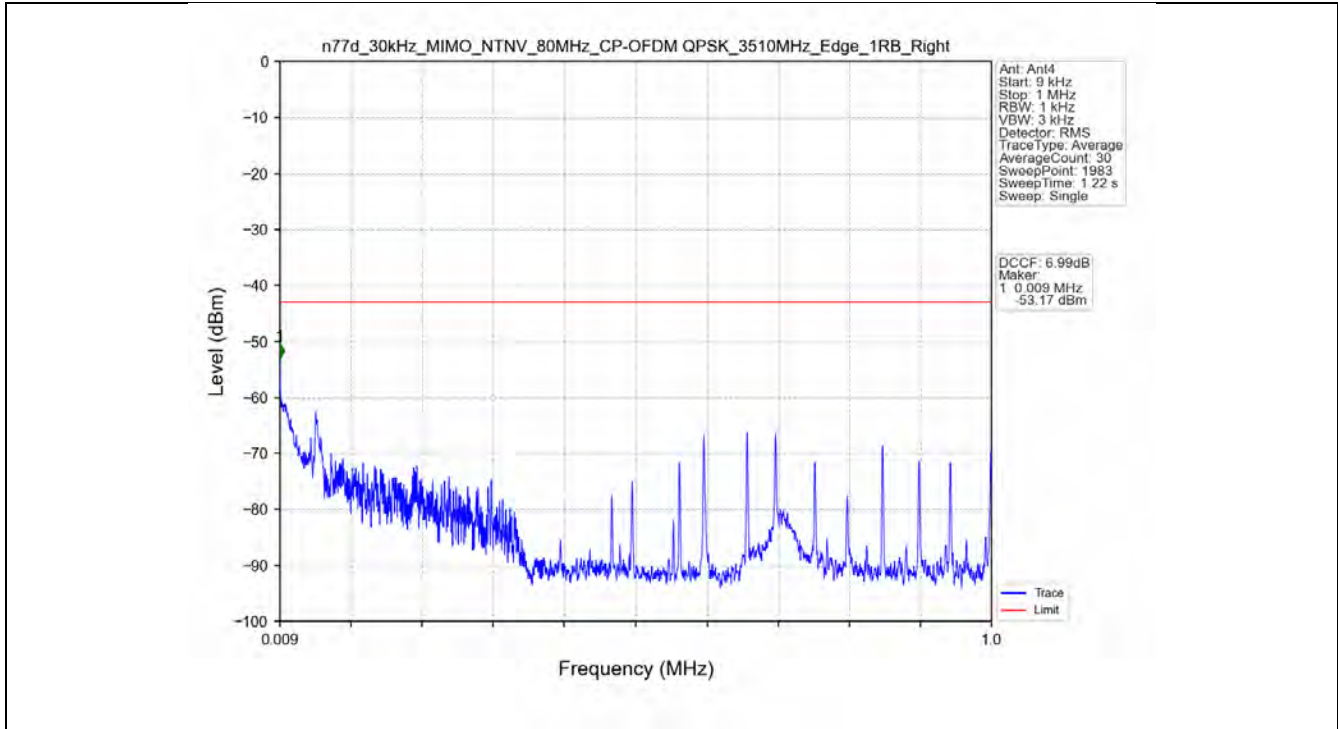


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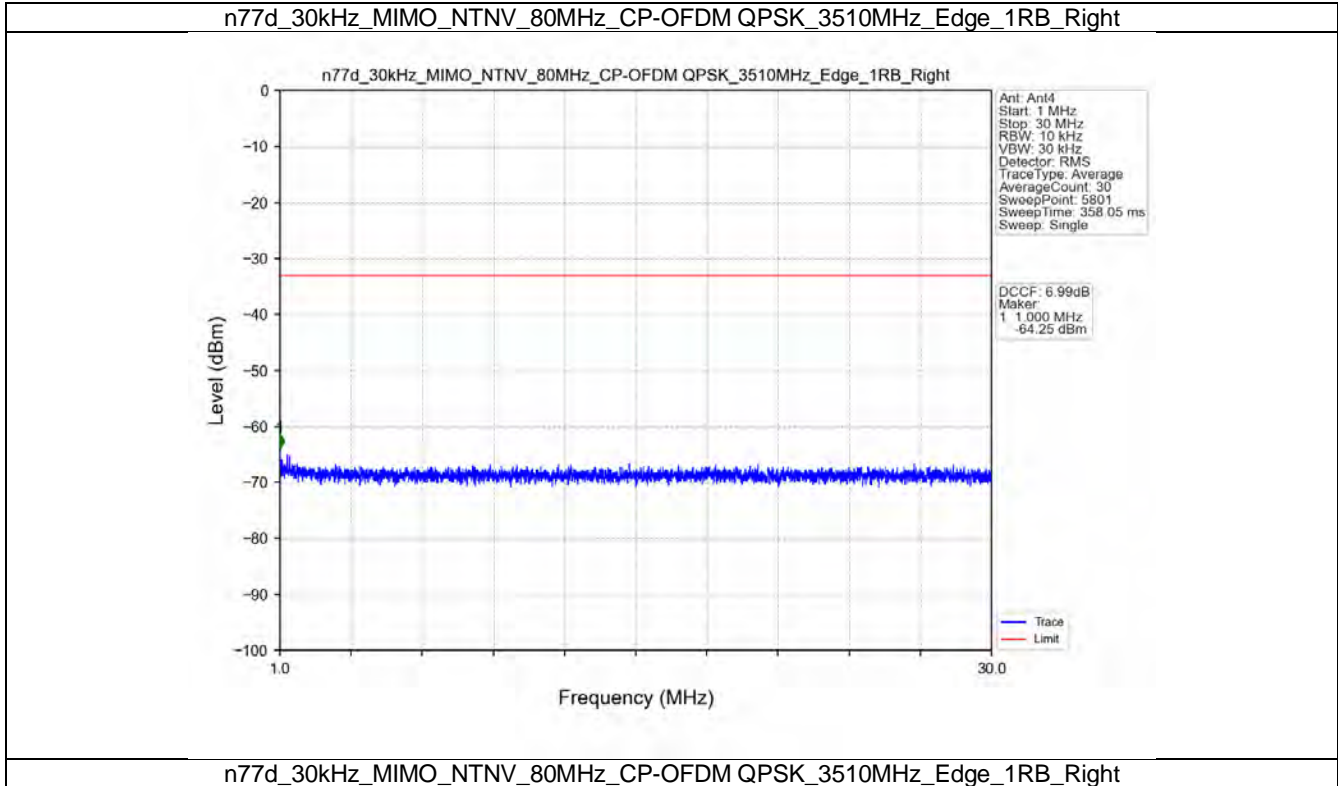


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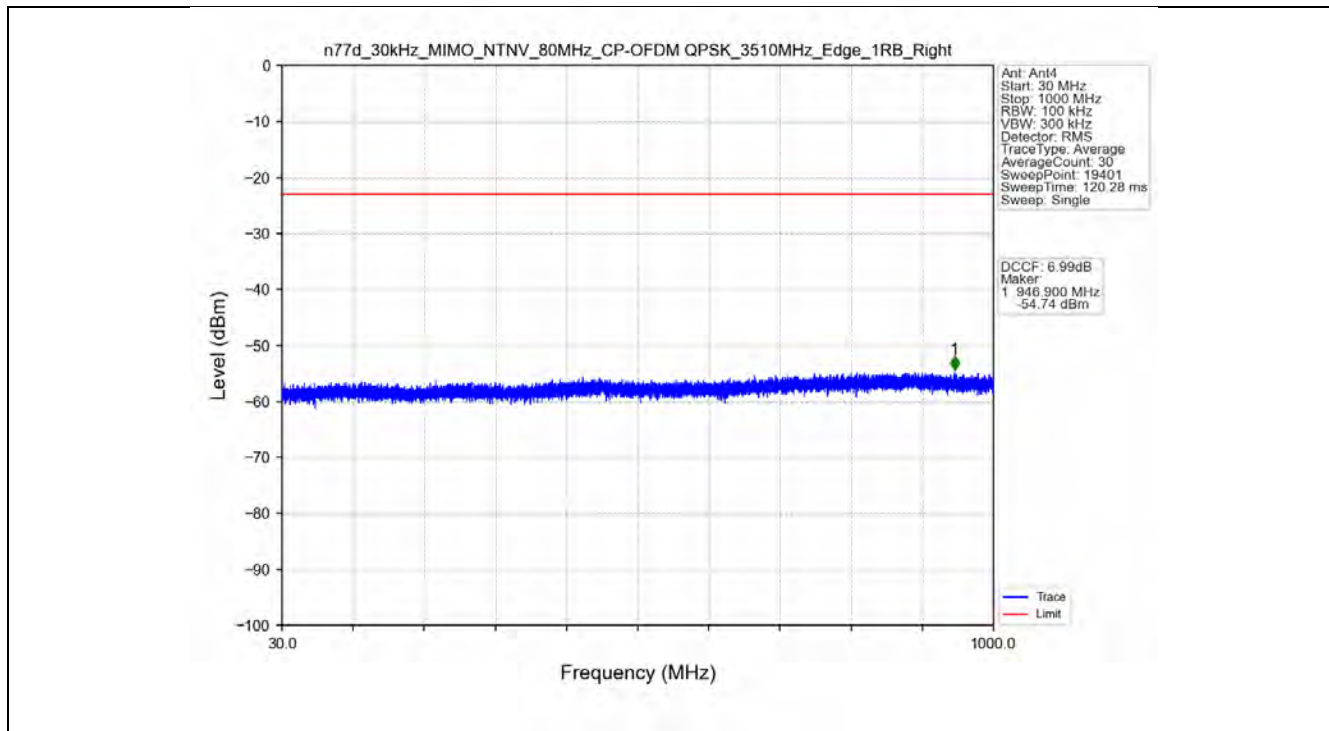
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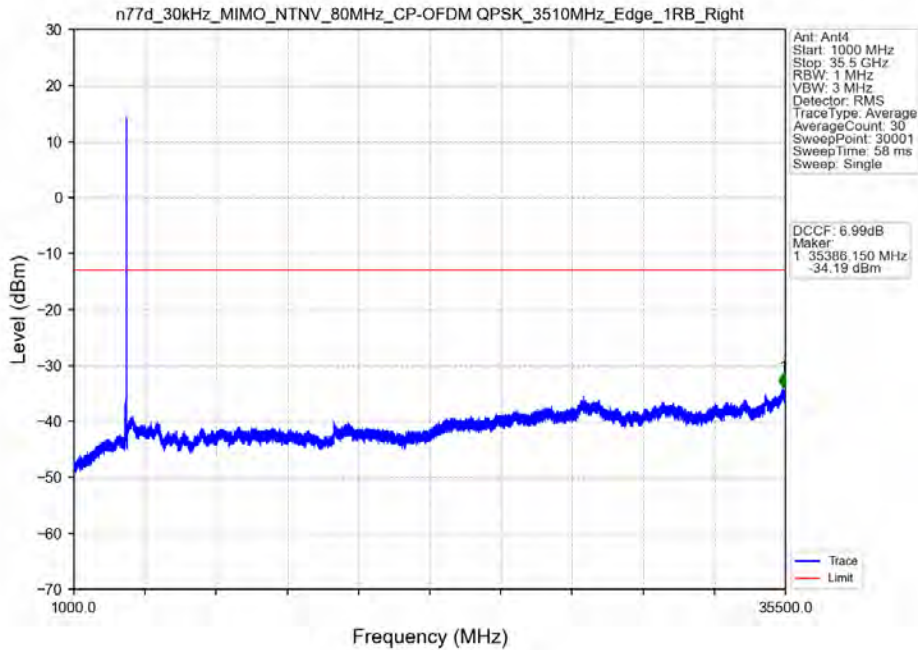
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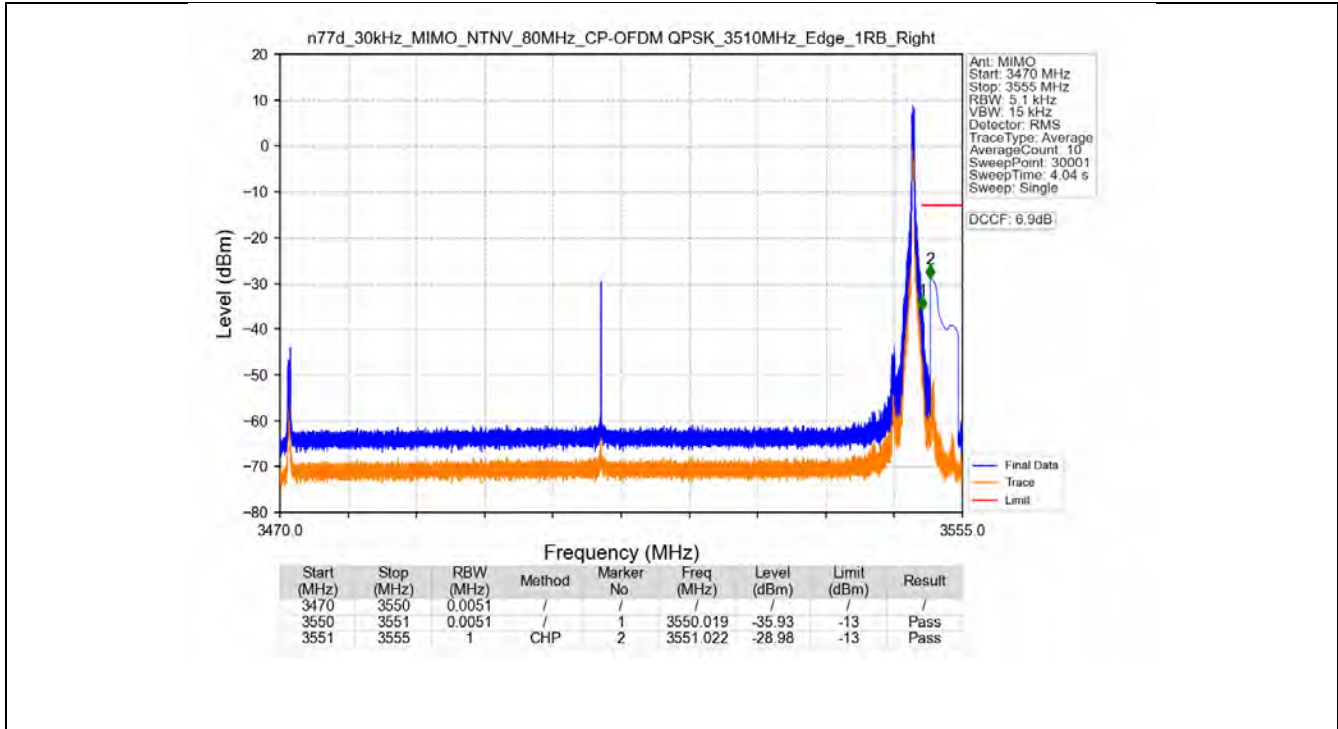


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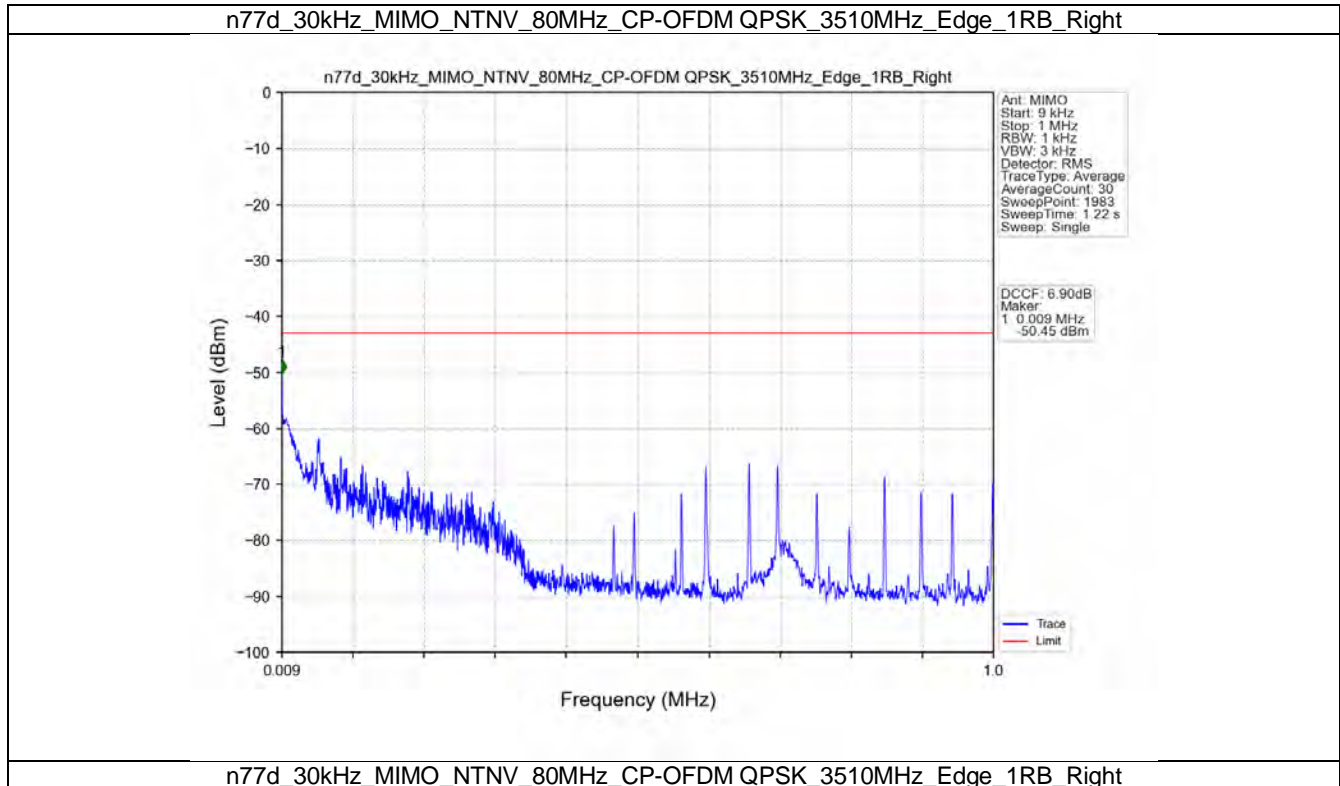


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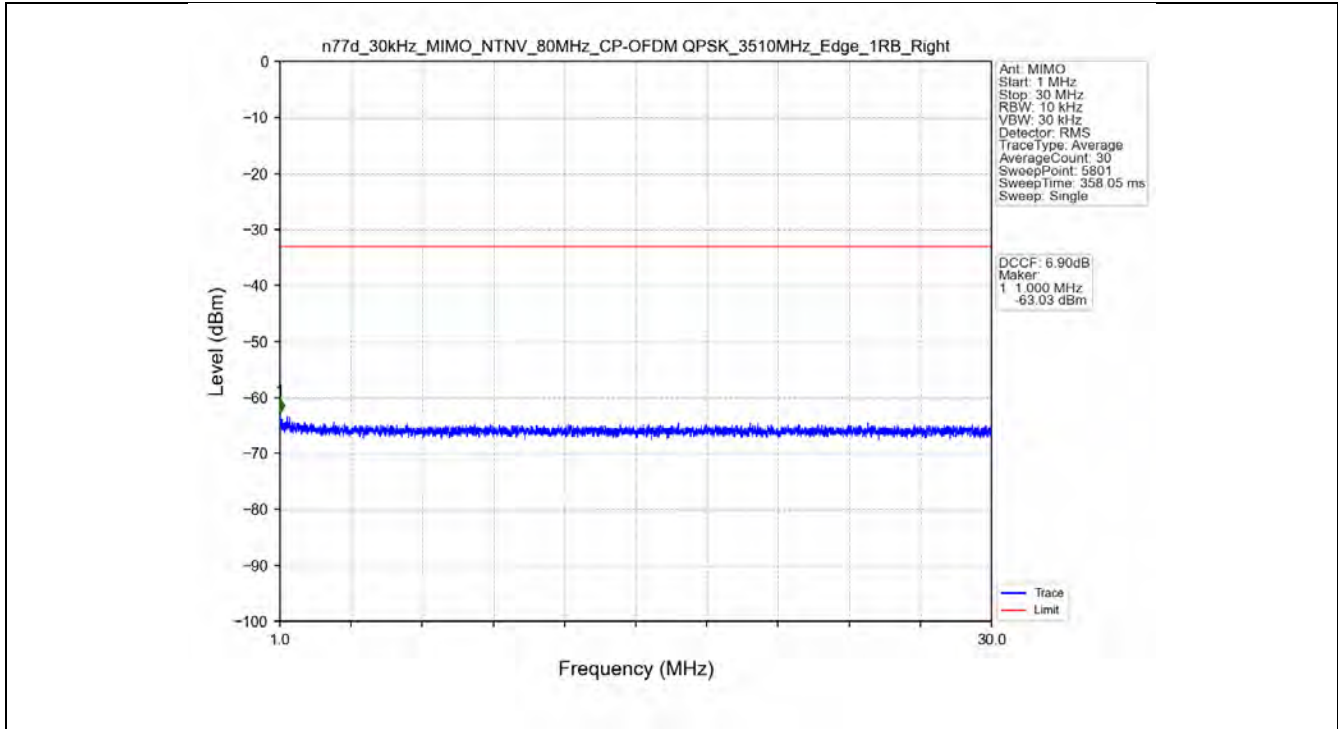


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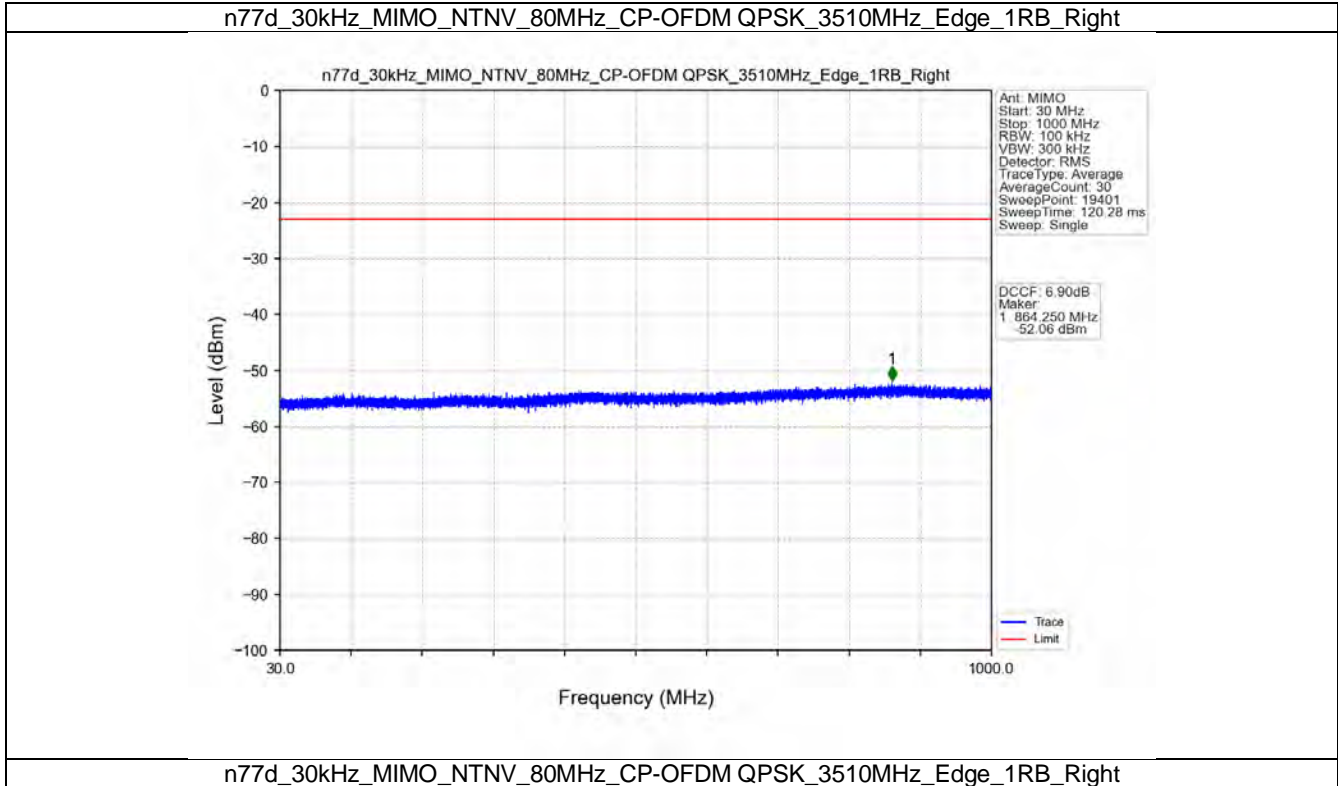


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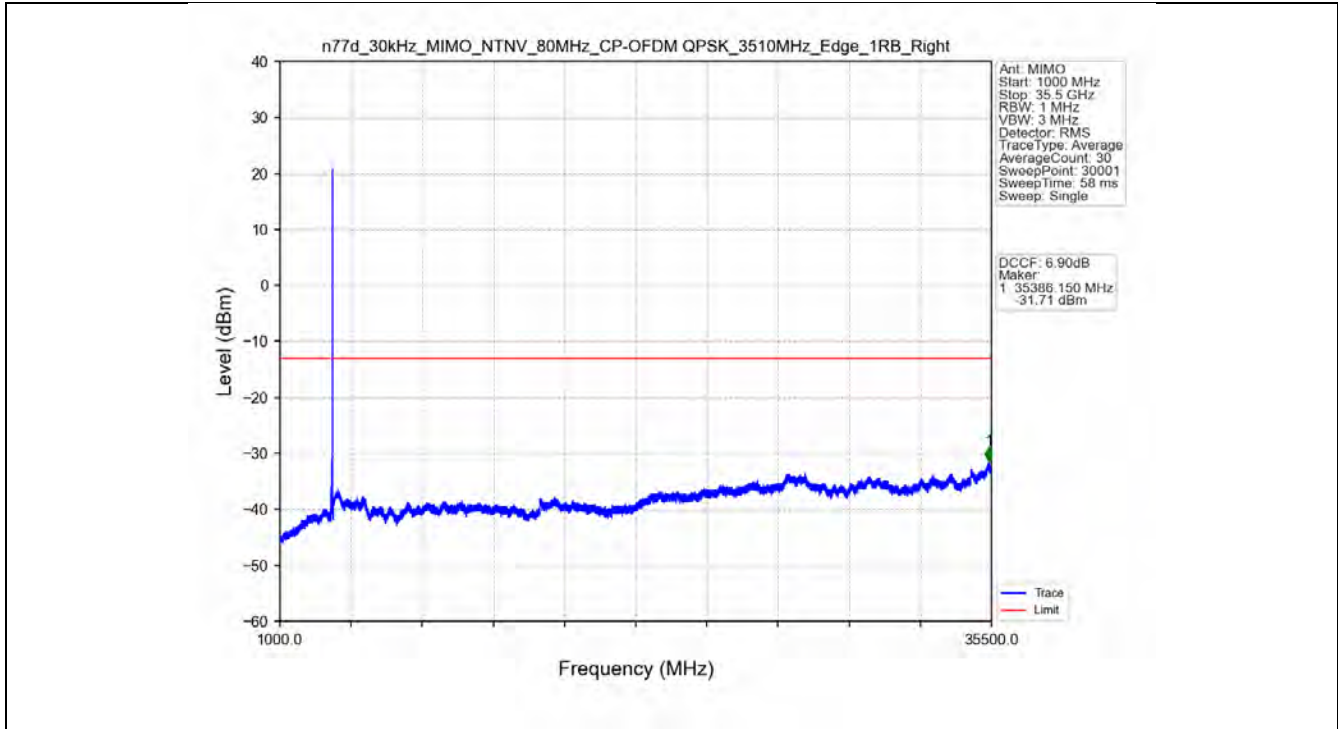


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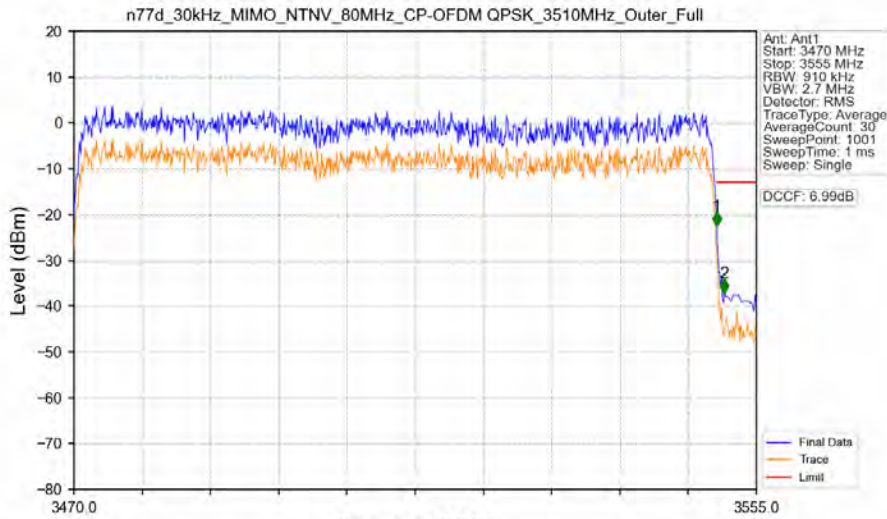
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| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 3470        | 3550       | 0.91      | /      | /         | /          | /           | /           | /      |
| 3550        | 3551       | 0.91      | /      | 1         | 3550.070   | -22.57      | -13         | Pass   |
| 3551        | 3555       | 1         | CHP    | 2         | 3551.005   | -37.18      | -13         | Pass   |

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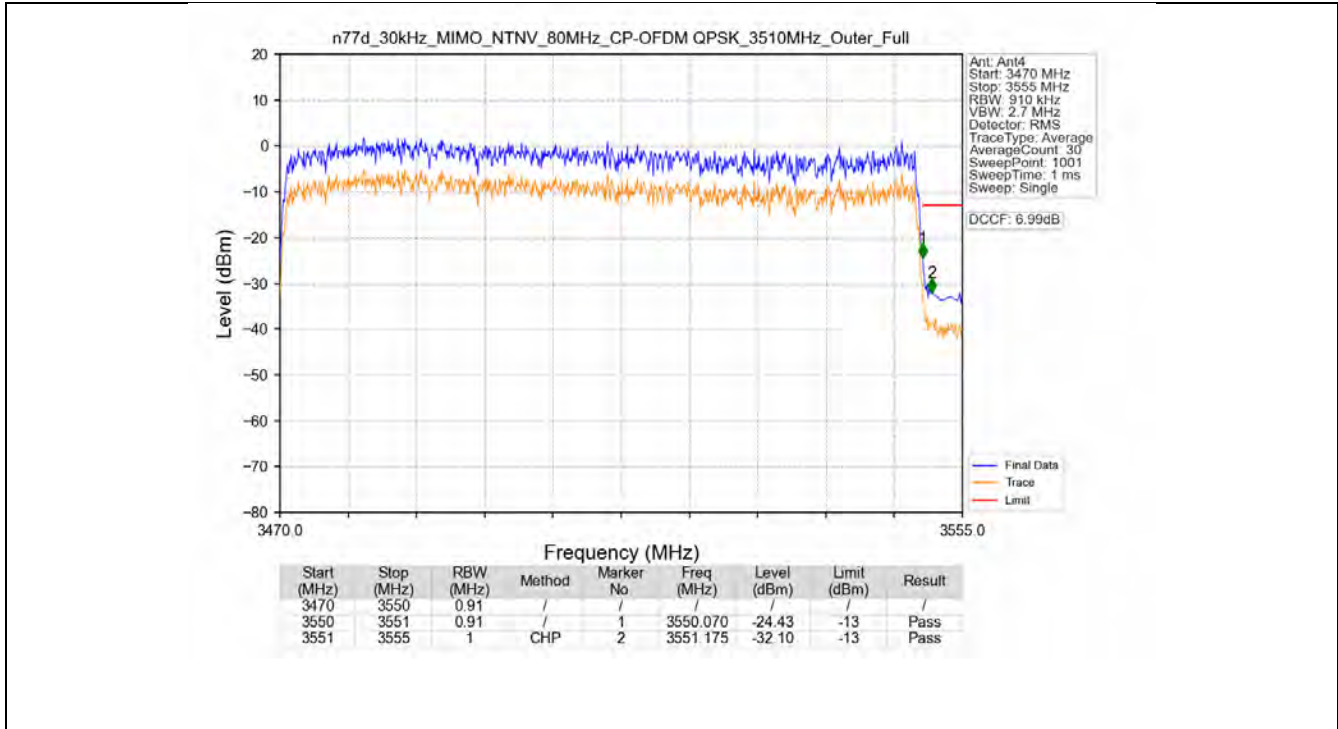


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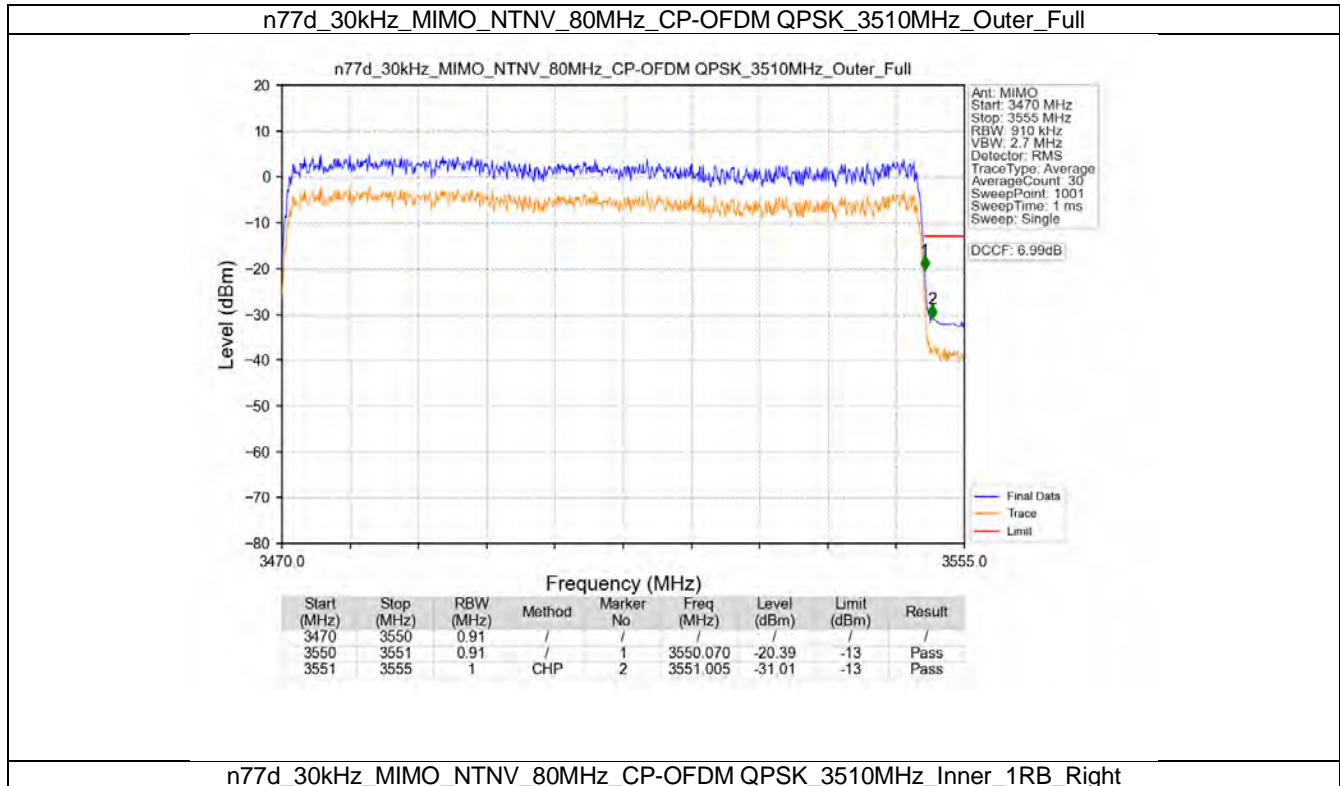


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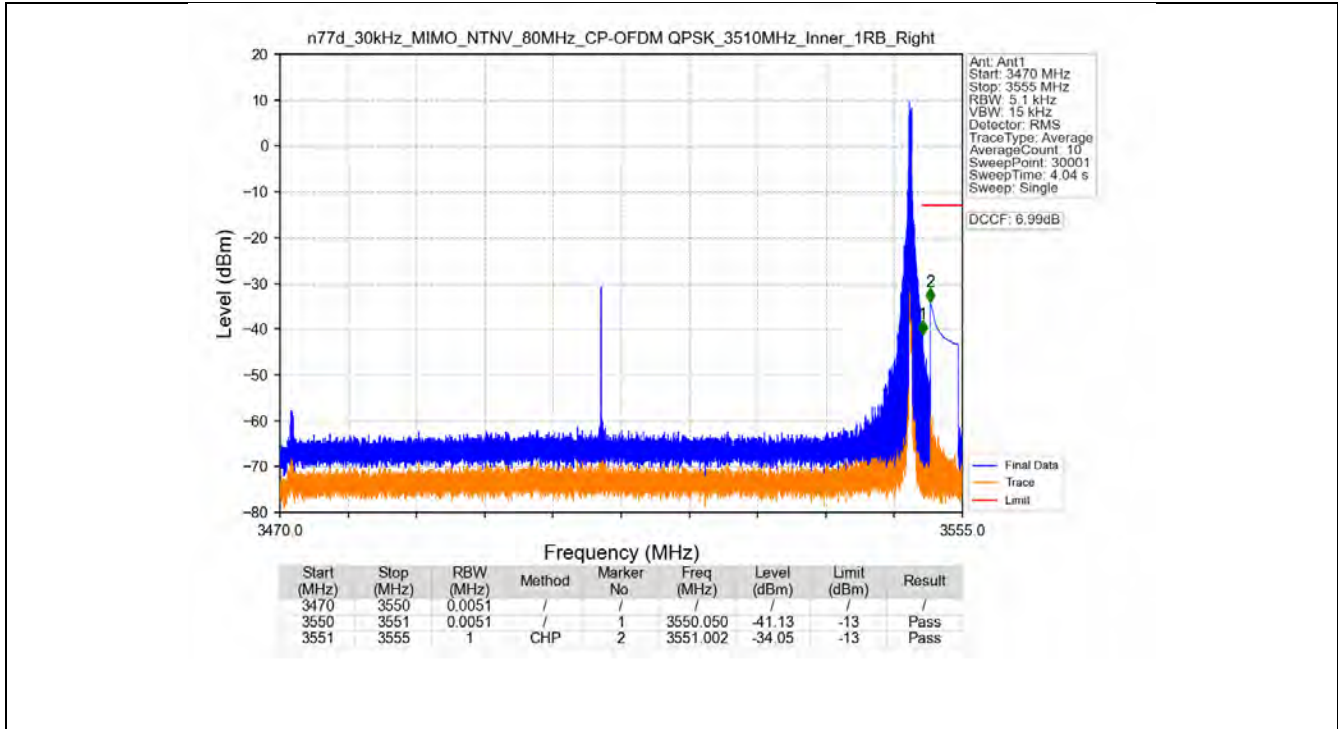


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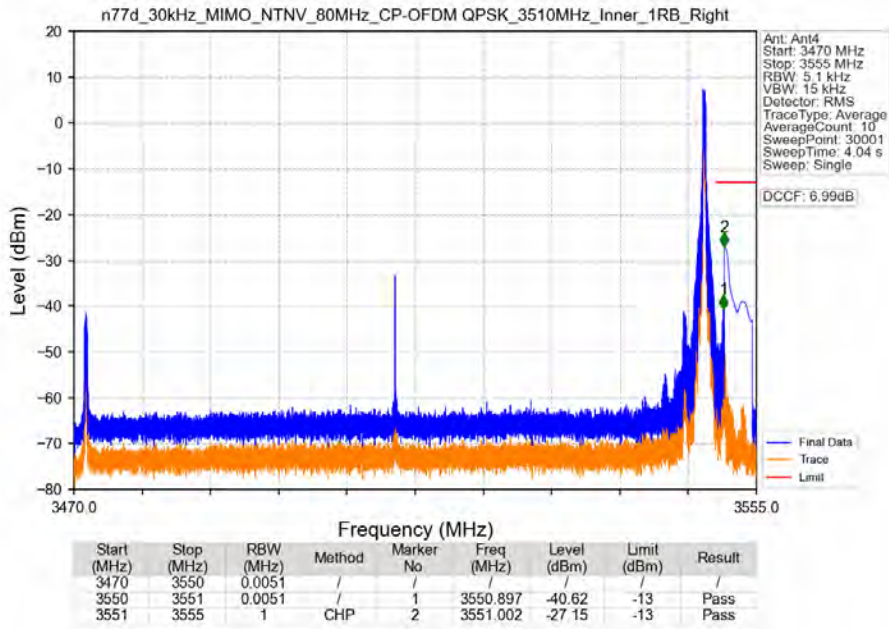
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n77d\_30kHz\_MIMO\_NTNV\_80MHz\_CP-OFDM\_QPSK\_3510MHz\_Inner\_1RB\_Right



n77d\_30kHz\_MIMO\_NTNV\_80MHz\_CP-OFDM\_QPSK\_3510MHz\_Inner\_1RB\_Right



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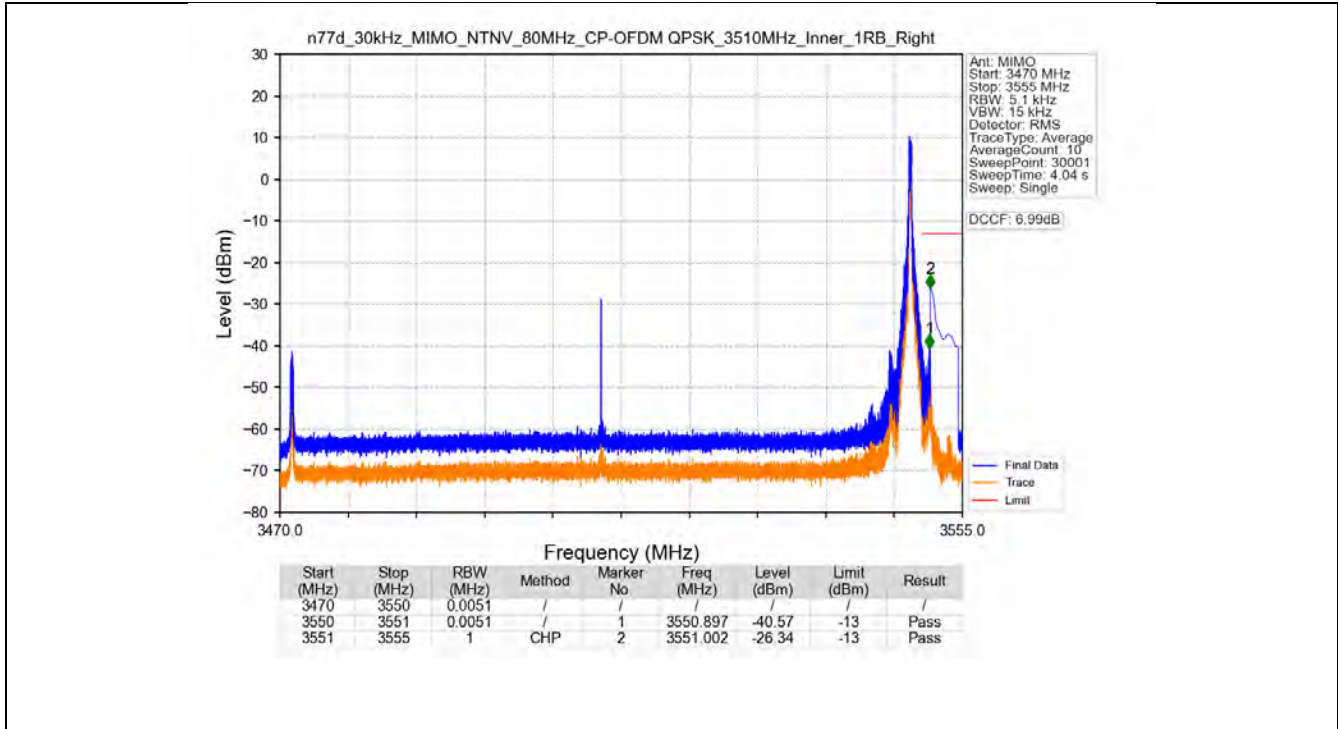


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## 5.12 30k\_MIMO\_100MHz\_NTNV

### 5.12.1 Test Result

| 5G NR n77d SCS=30kHz MIMO 100MHz NTN |                 |                 |                     |      |     |       |         |
|--------------------------------------|-----------------|-----------------|---------------------|------|-----|-------|---------|
| Modulation                           | Frequency (MHz) | RB Allocation   | Spurious Emission   |      |     |       | Verdict |
|                                      |                 |                 | Ant1                | Ant4 | Sum | Limit |         |
| CP-OFDM<br>QPSK                      | 3500.01         | Edge_1RB_Left   | Refer To Test Graph |      |     |       | Pass    |
|                                      |                 |                 | Refer To Test Graph |      |     |       | Pass    |
|                                      |                 |                 | Refer To Test Graph |      |     |       | Pass    |
|                                      |                 | Outer_Full      | Refer To Test Graph |      |     |       | Pass    |
|                                      |                 |                 | Refer To Test Graph |      |     |       | Pass    |
|                                      |                 |                 | Refer To Test Graph |      |     |       | Pass    |
|                                      |                 | Inner_1RB_Left  | Refer To Test Graph |      |     |       | Pass    |
|                                      |                 |                 | Refer To Test Graph |      |     |       | Pass    |
|                                      |                 |                 | Refer To Test Graph |      |     |       | Pass    |
|                                      | 3499.98         | Edge_1RB_Right  | Refer To Test Graph |      |     |       | Pass    |
|                                      |                 |                 | Refer To Test Graph |      |     |       | Pass    |
|                                      |                 |                 | Refer To Test Graph |      |     |       | Pass    |
|                                      |                 | Outer_Full      | Refer To Test Graph |      |     |       | Pass    |
|                                      |                 |                 | Refer To Test Graph |      |     |       | Pass    |
|                                      |                 |                 | Refer To Test Graph |      |     |       | Pass    |
|                                      |                 | Inner_1RB_Right | Refer To Test Graph |      |     |       | Pass    |
|                                      |                 |                 | Refer To Test Graph |      |     |       | Pass    |
|                                      |                 |                 | Refer To Test Graph |      |     |       | Pass    |



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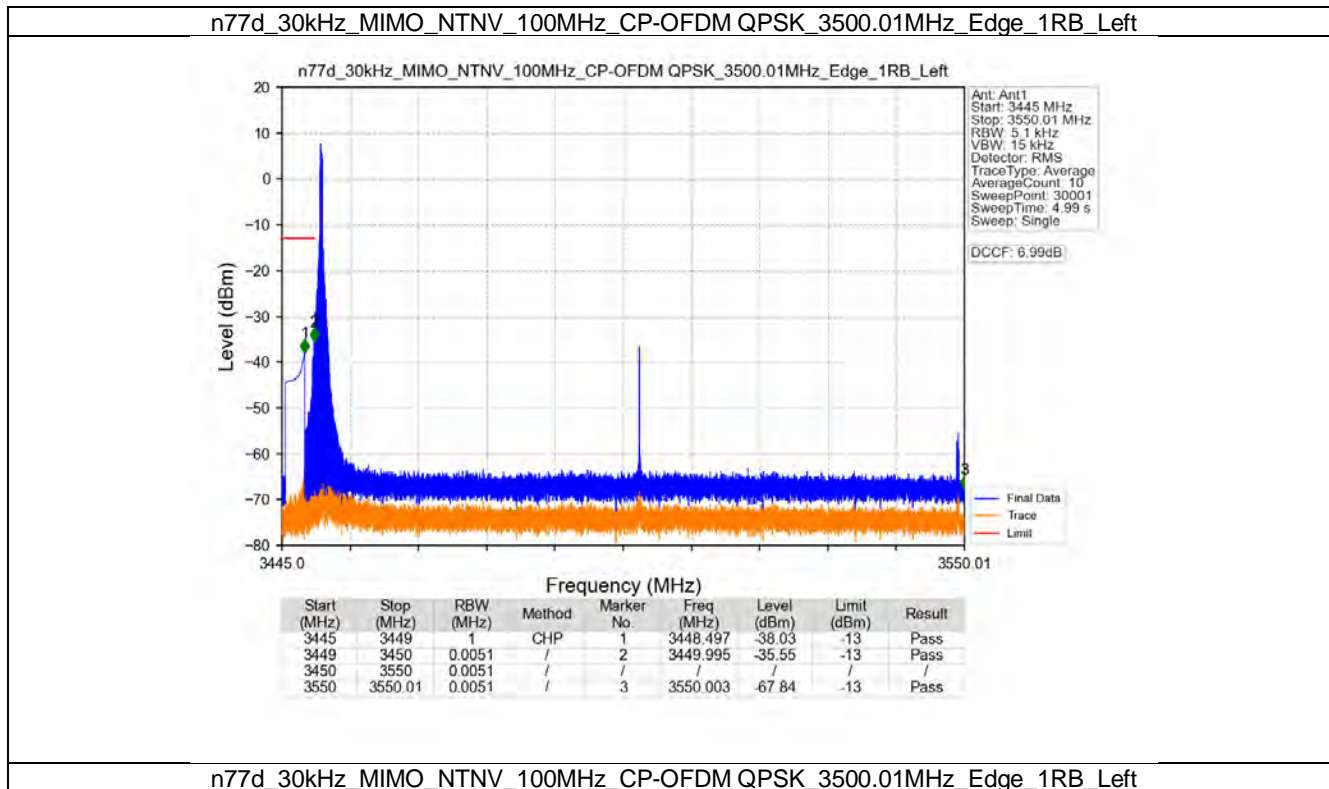
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5.12.2 Test Graph



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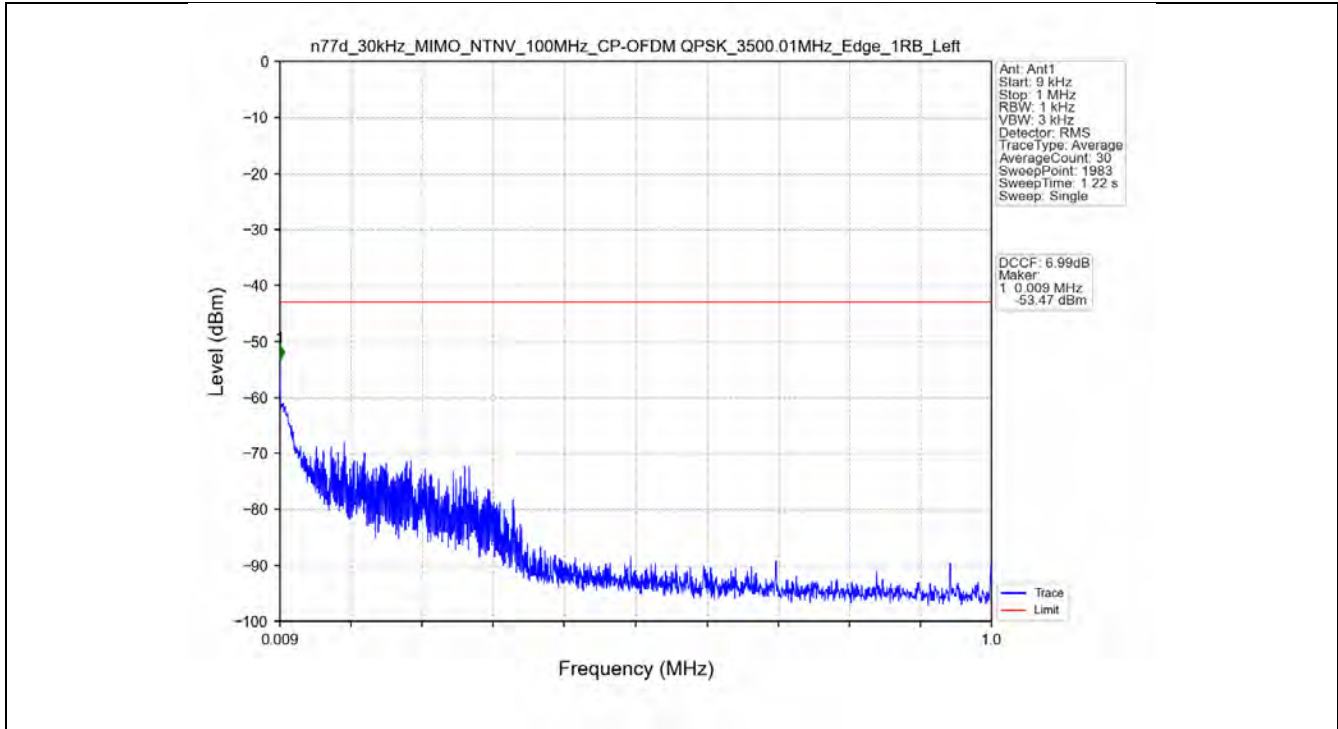


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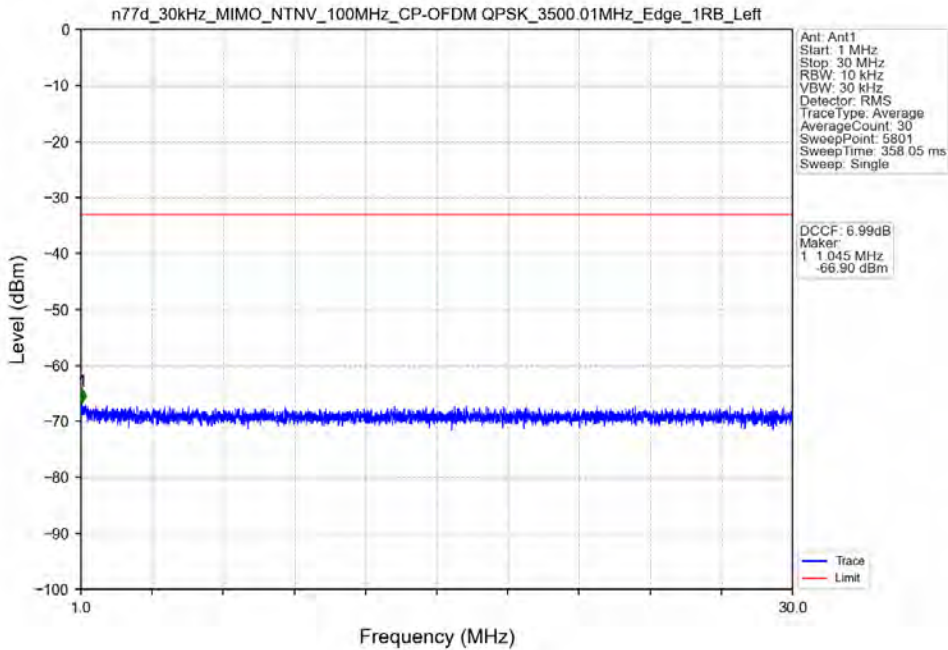
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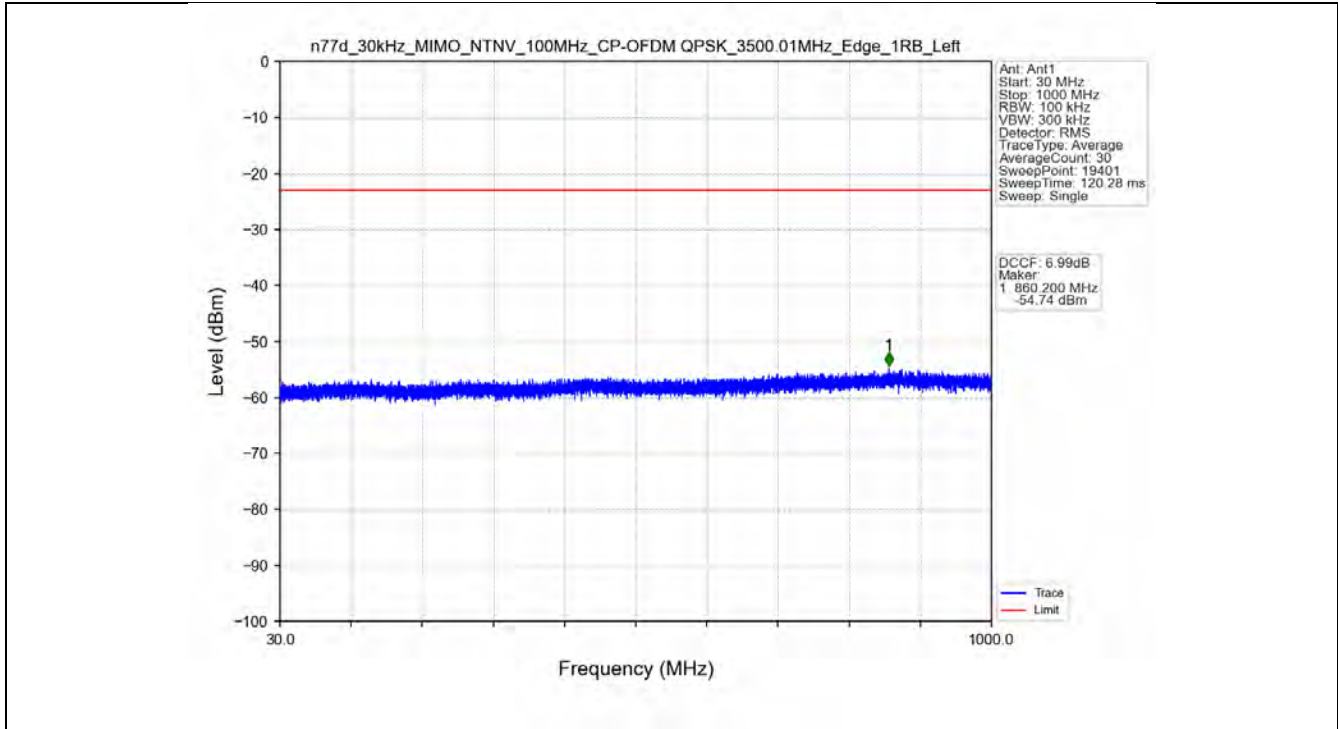


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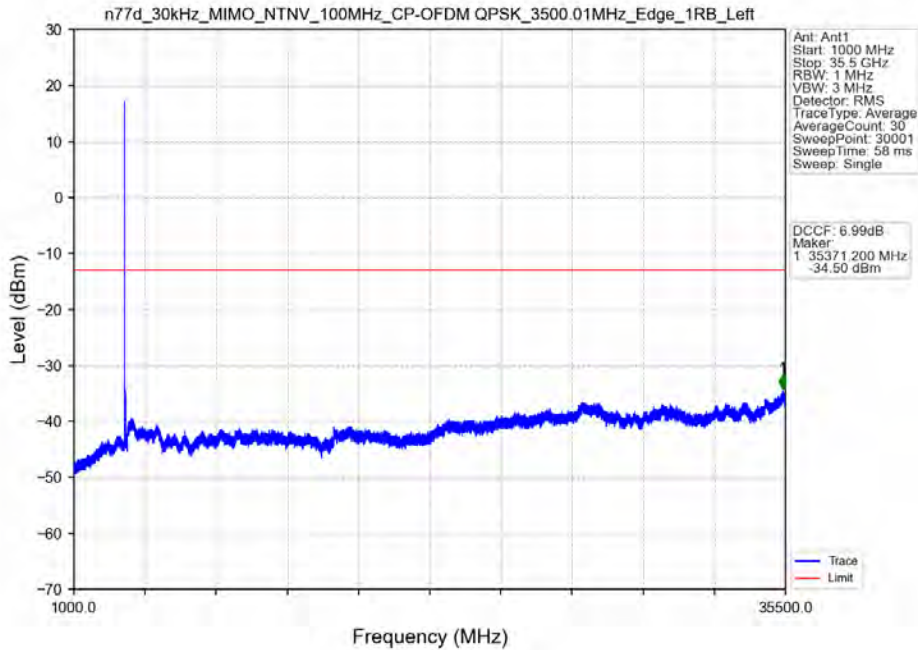
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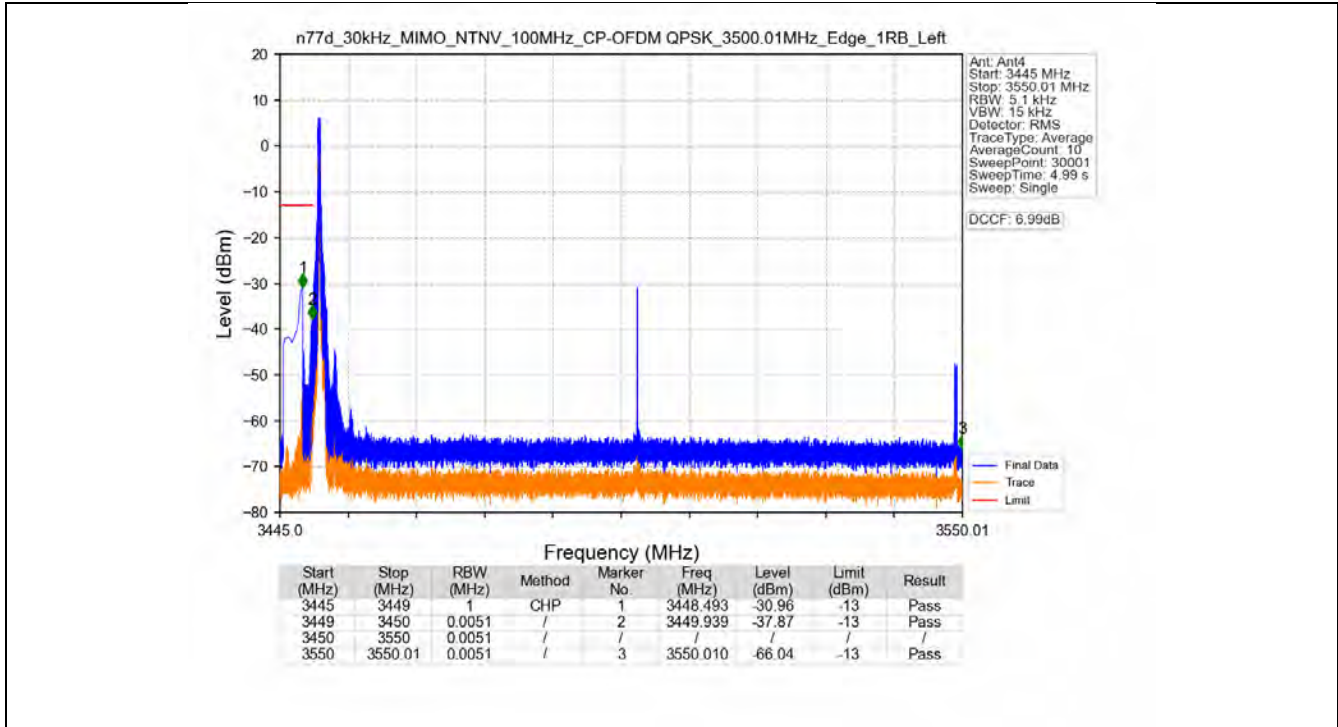


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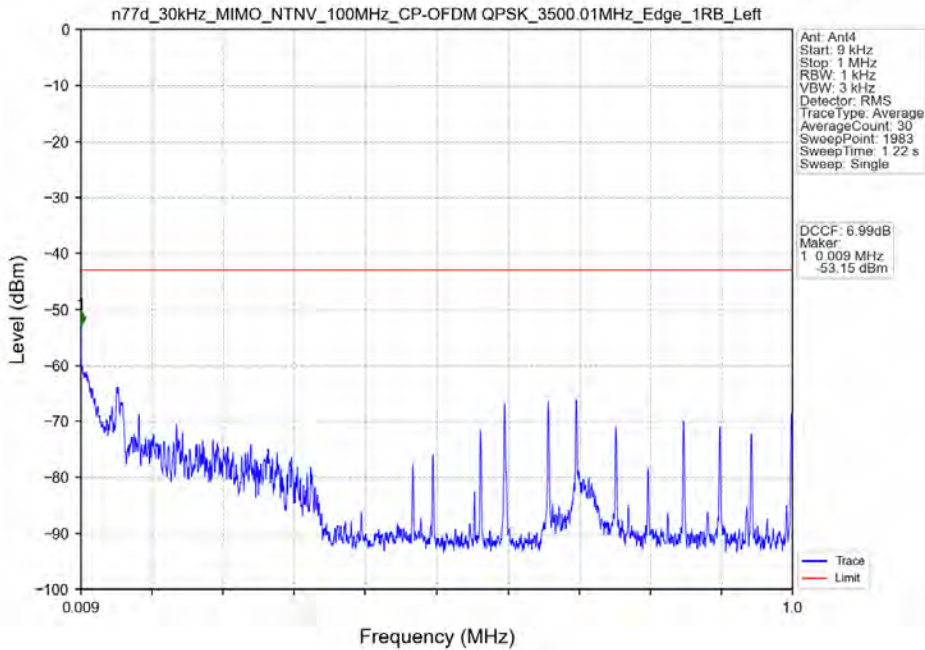
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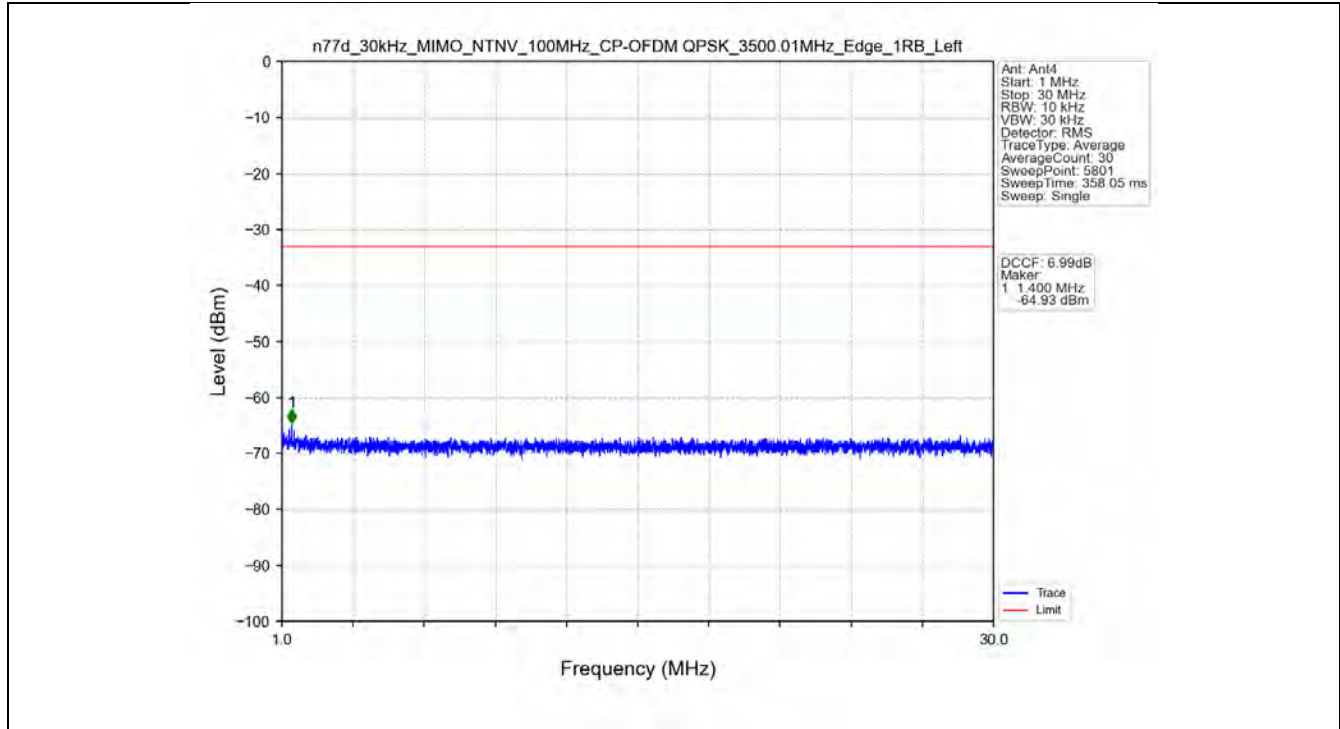


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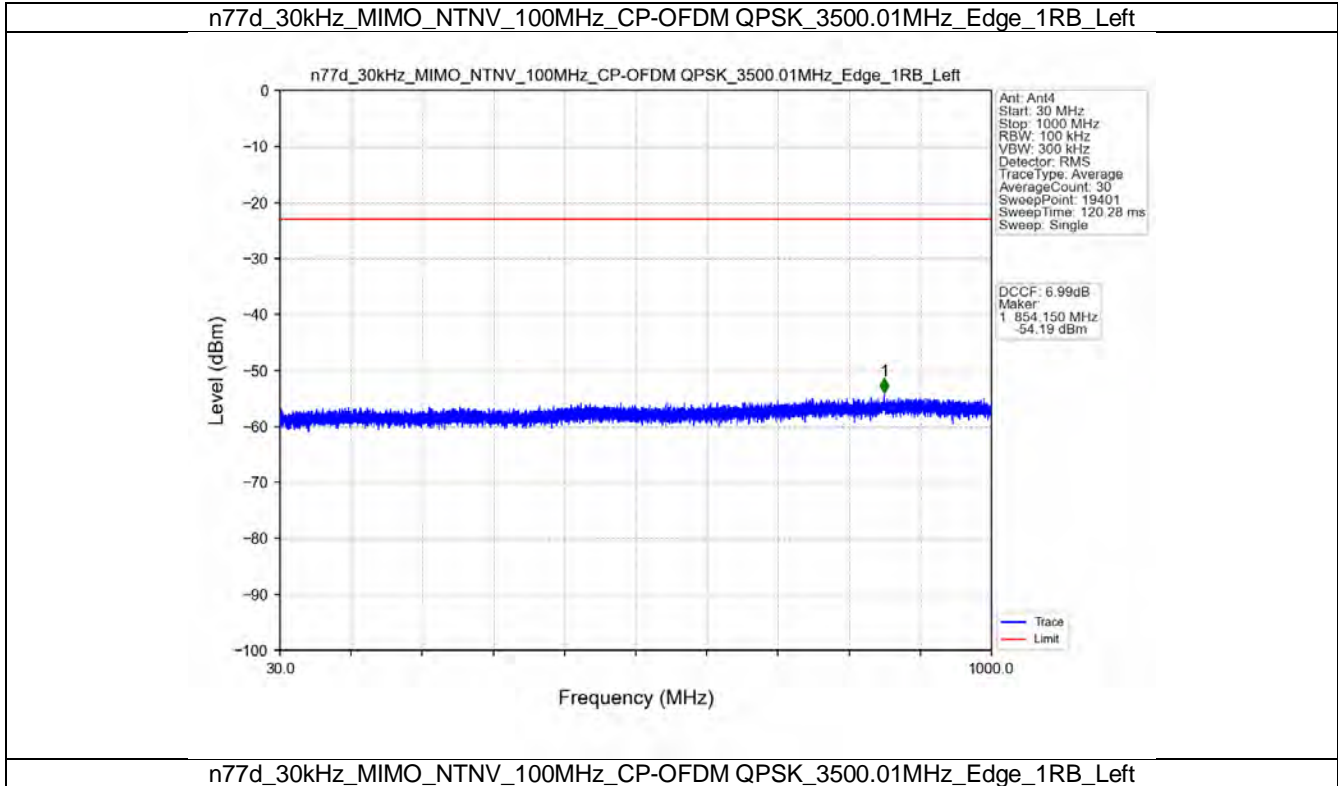


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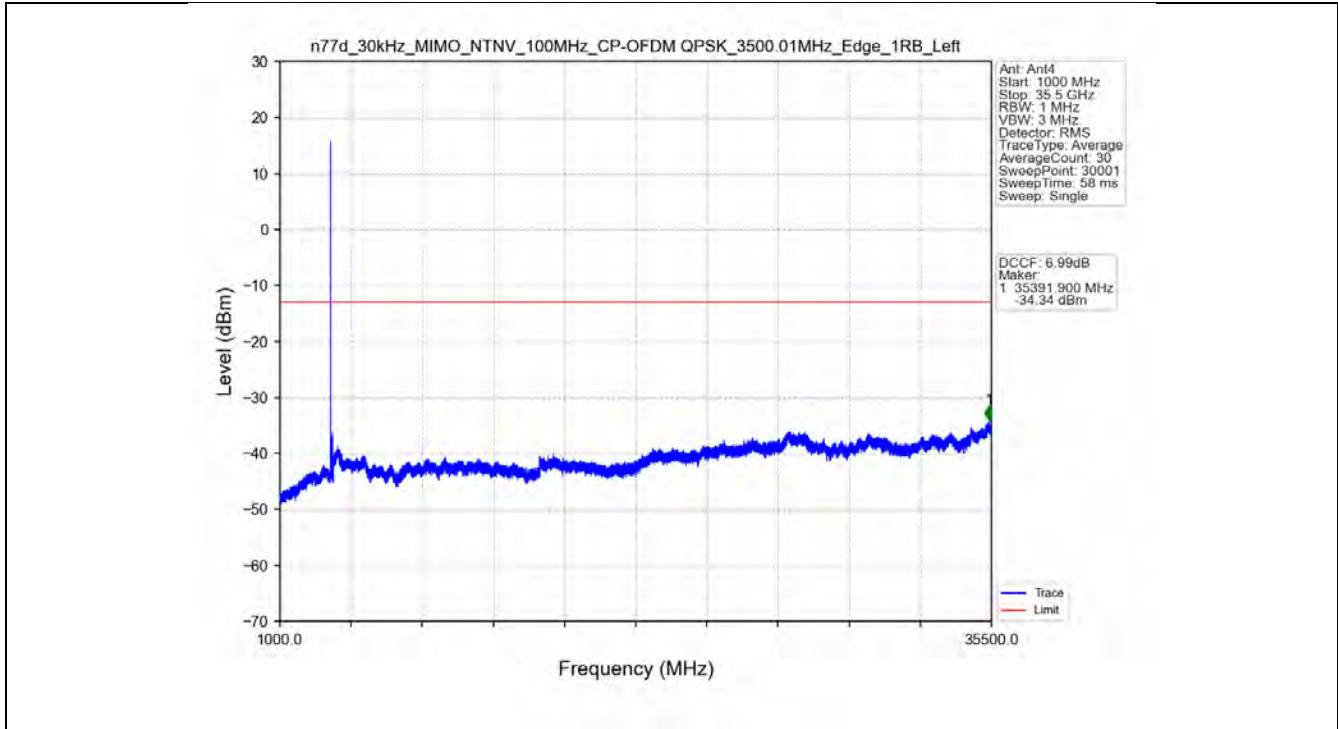


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