



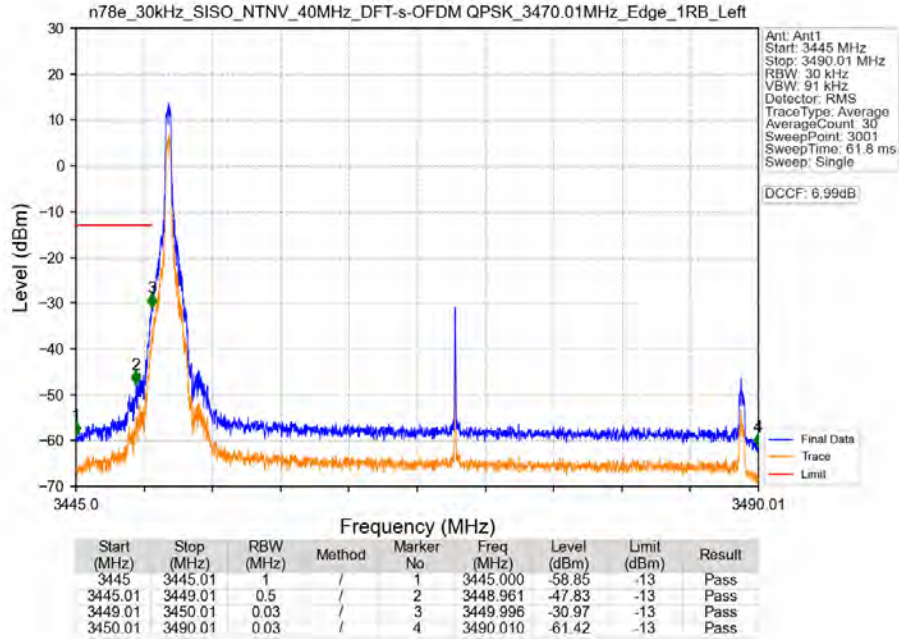
# SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

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n78e\_30kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM\_QPSK\_3470.01MHz\_Edge\_1RB\_Left



n78e\_30kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM\_QPSK\_3470.01MHz\_Edge\_1RB\_Left



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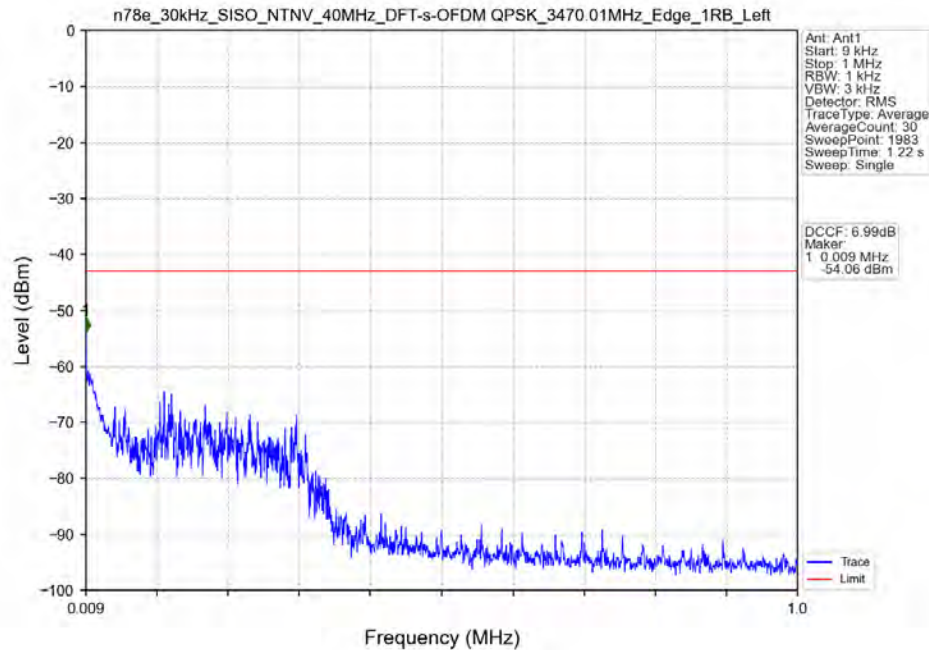


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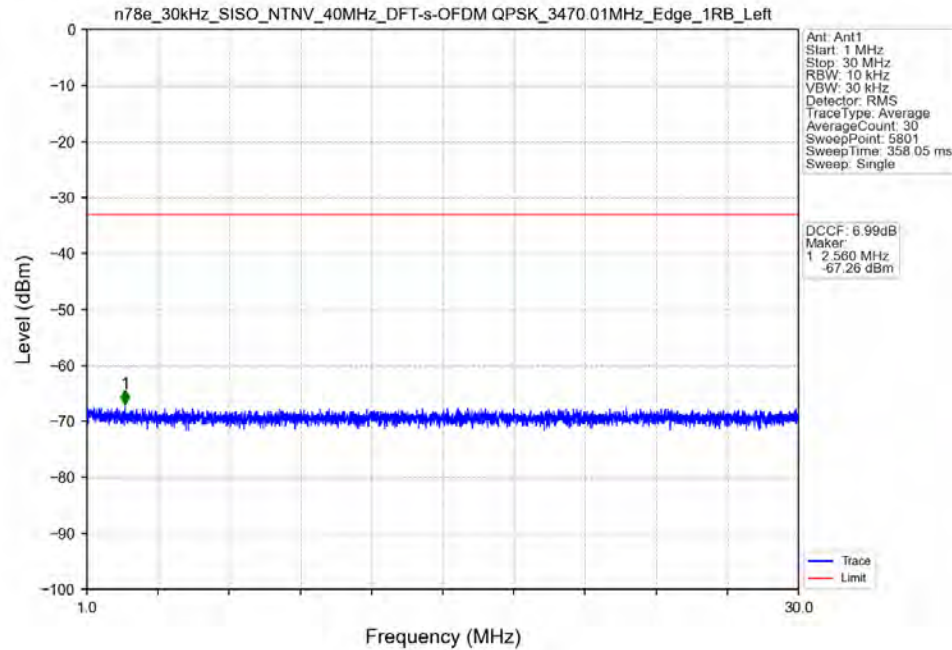
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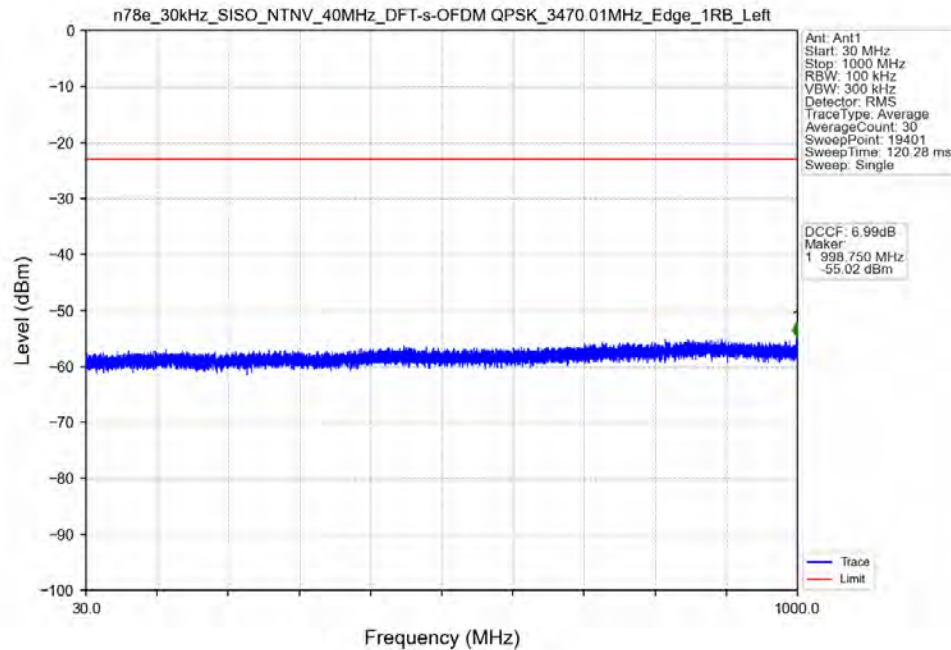


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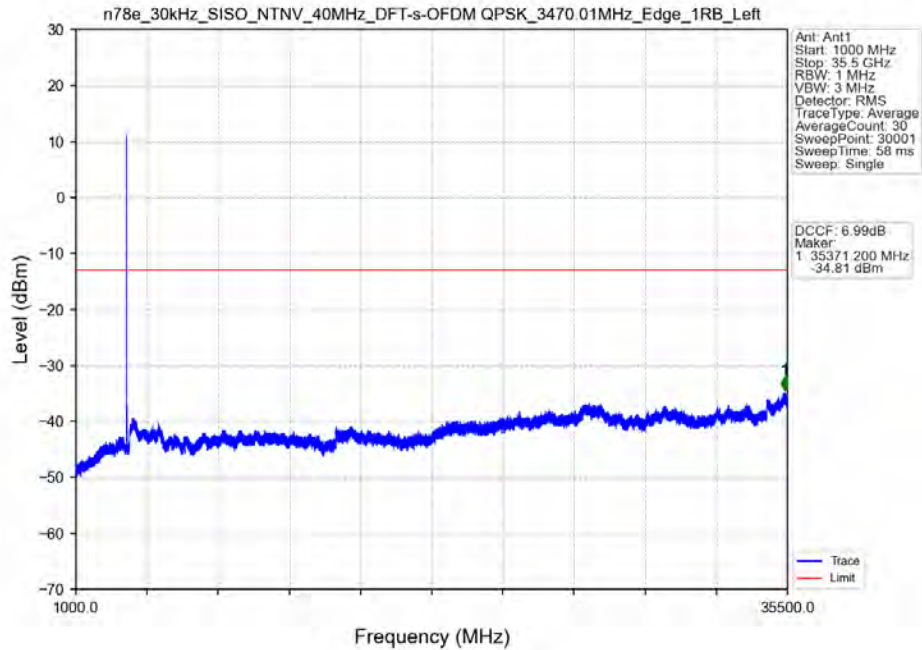
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n78e\_30kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM QPSK\_3470.01MHz\_Outer\_Full



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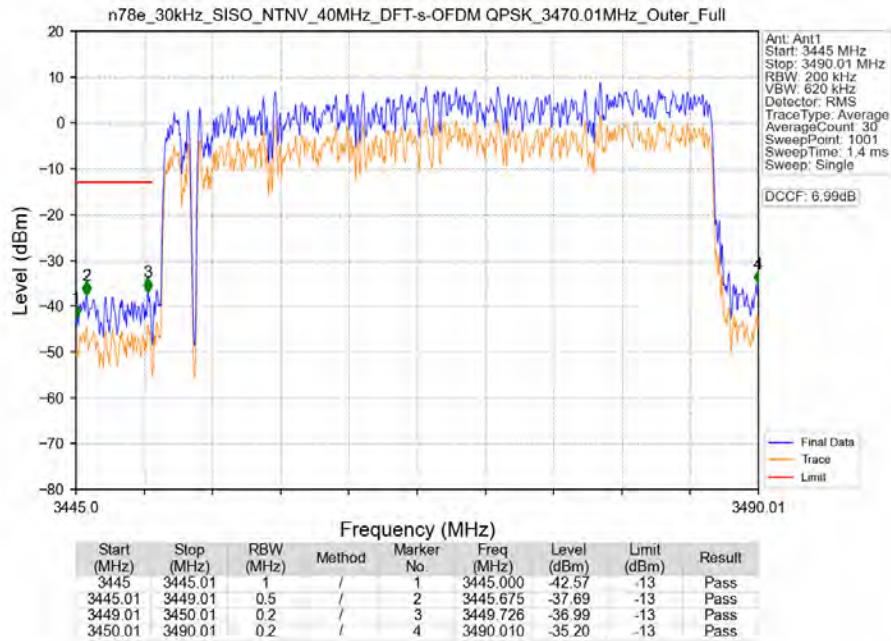


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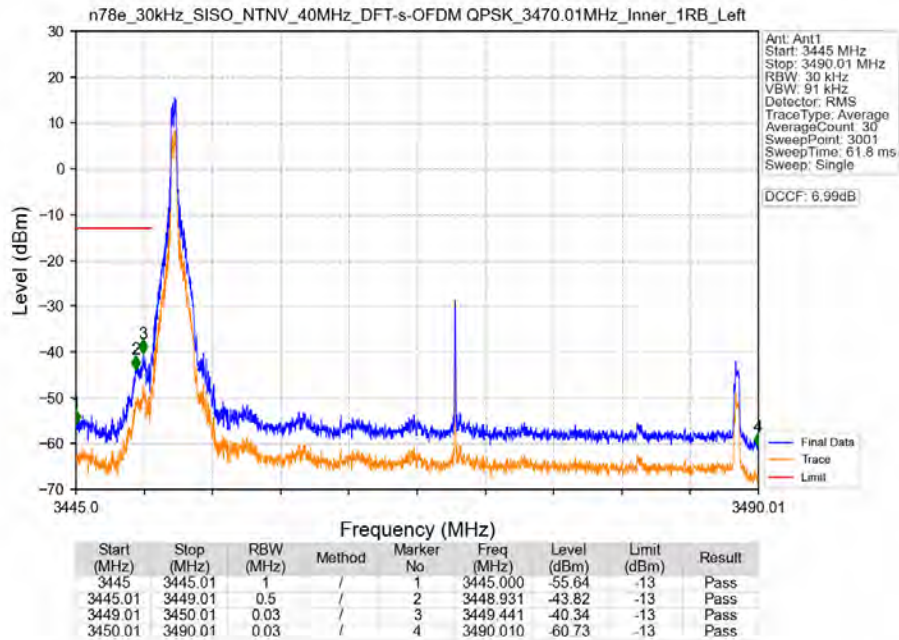
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n78e\_30kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM\_QPSK\_3500.01MHz\_Edge\_1RB\_Left



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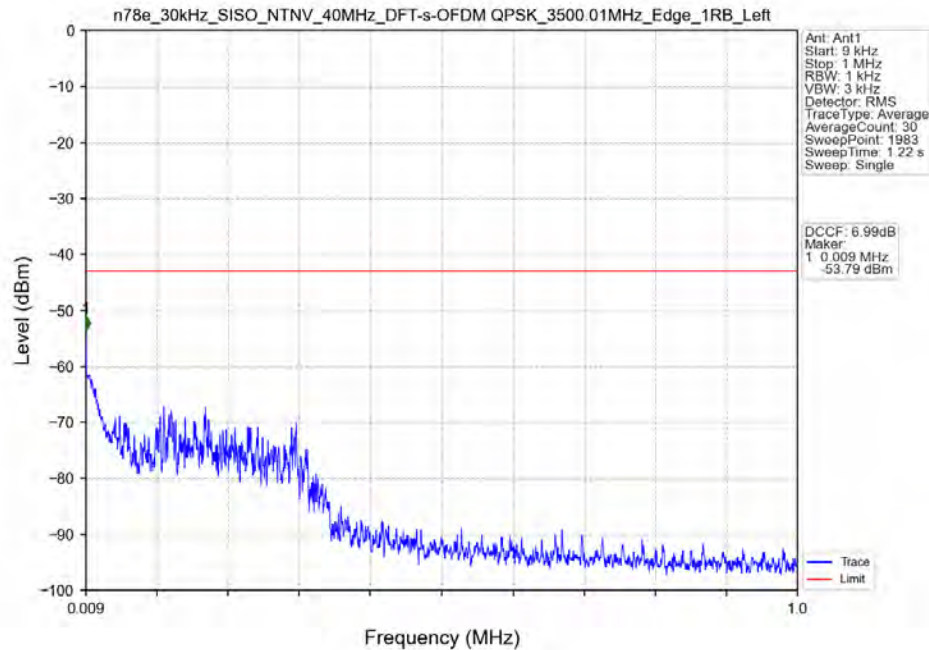


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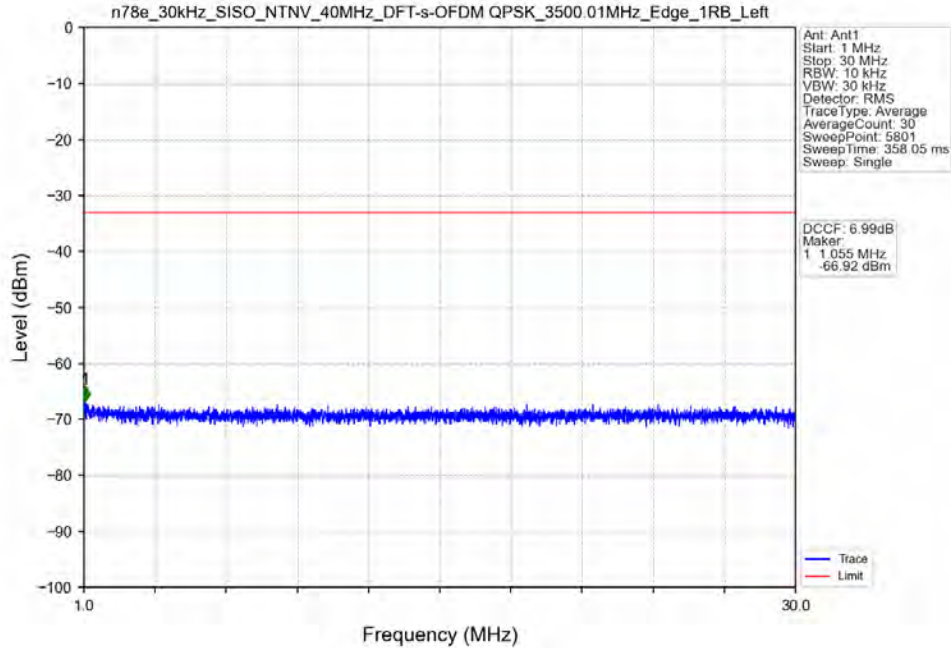
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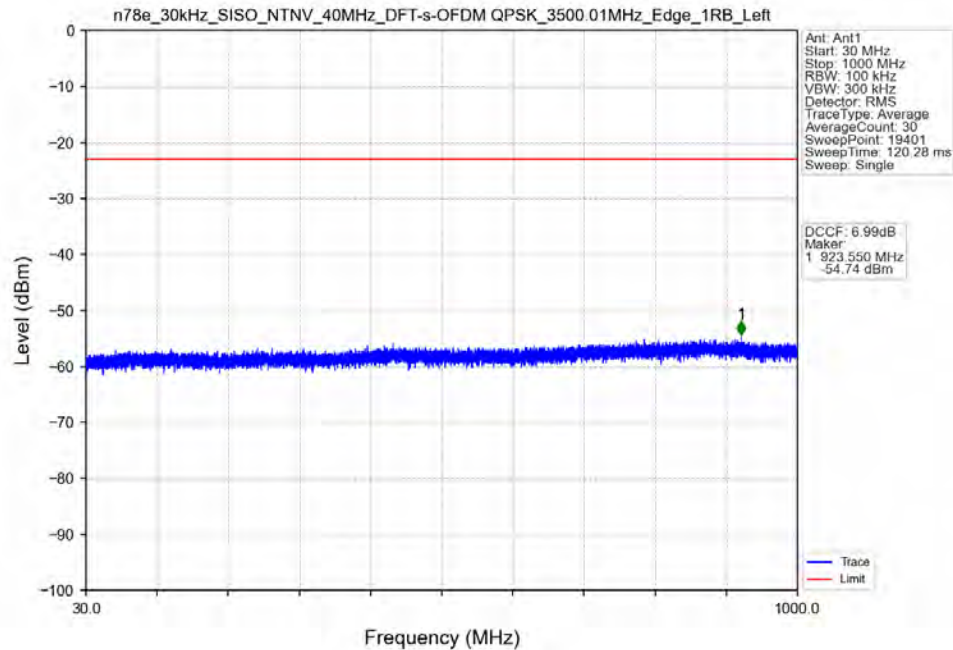


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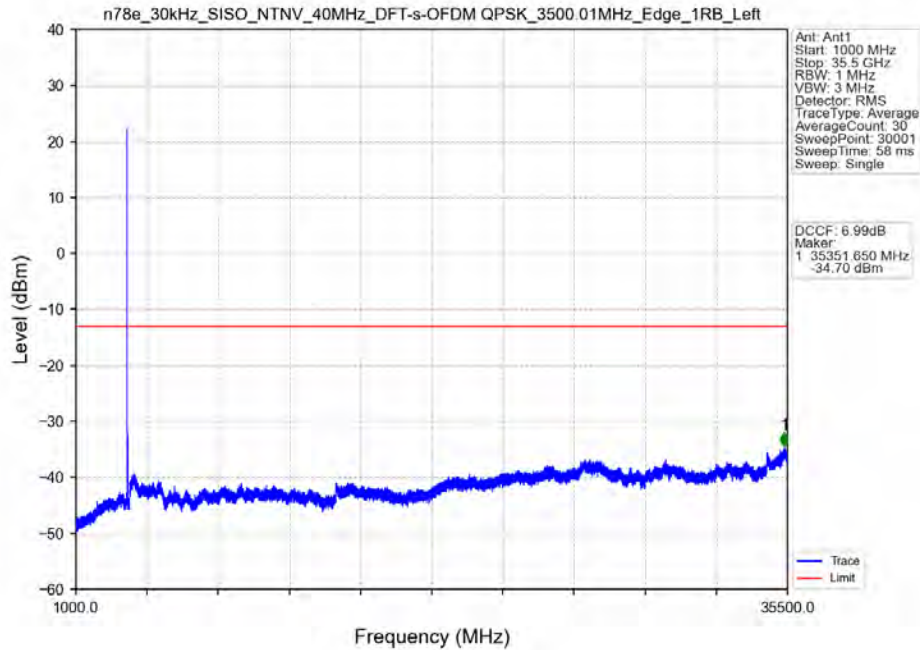
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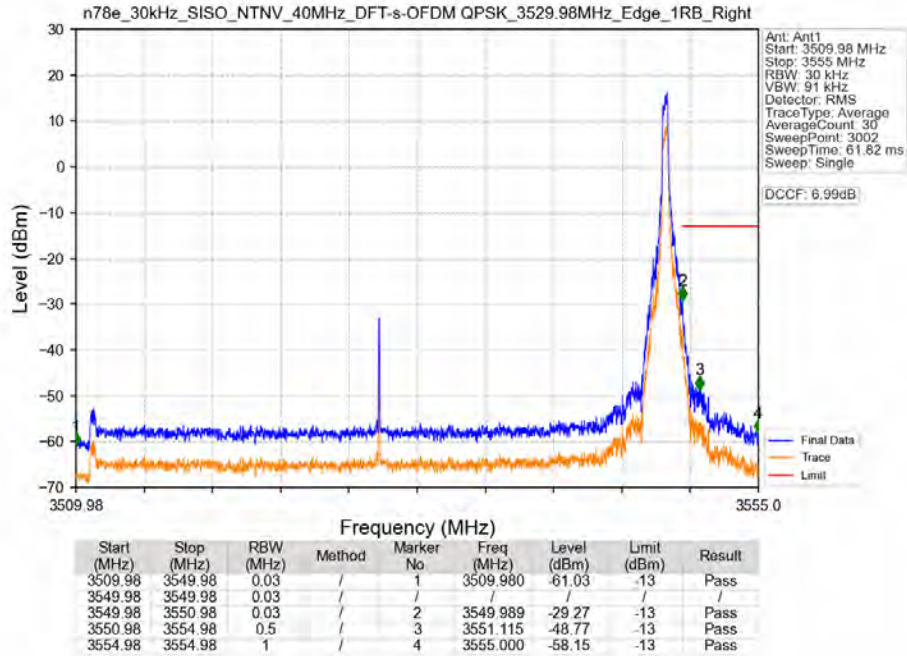


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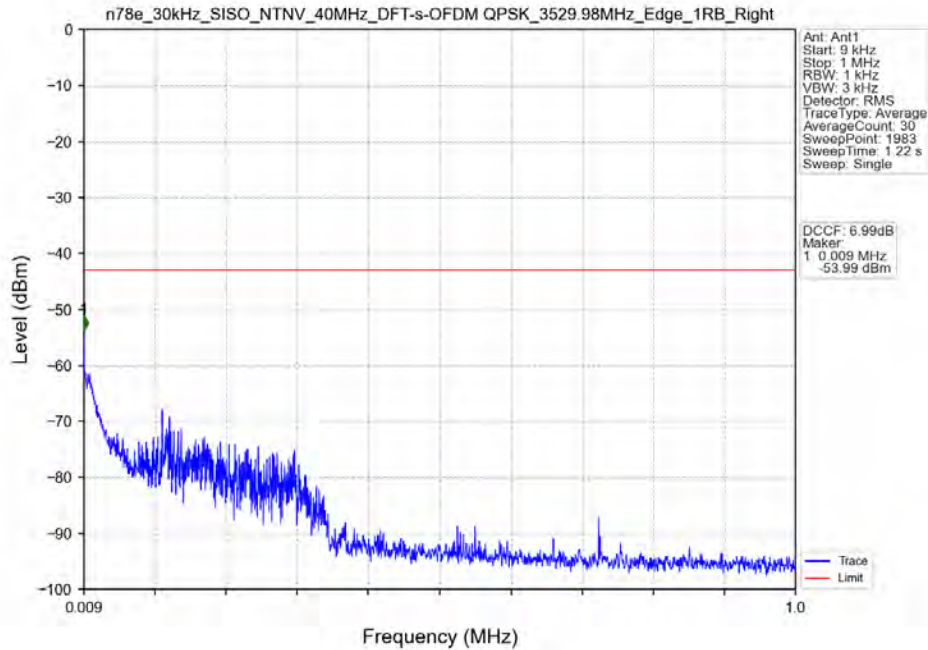
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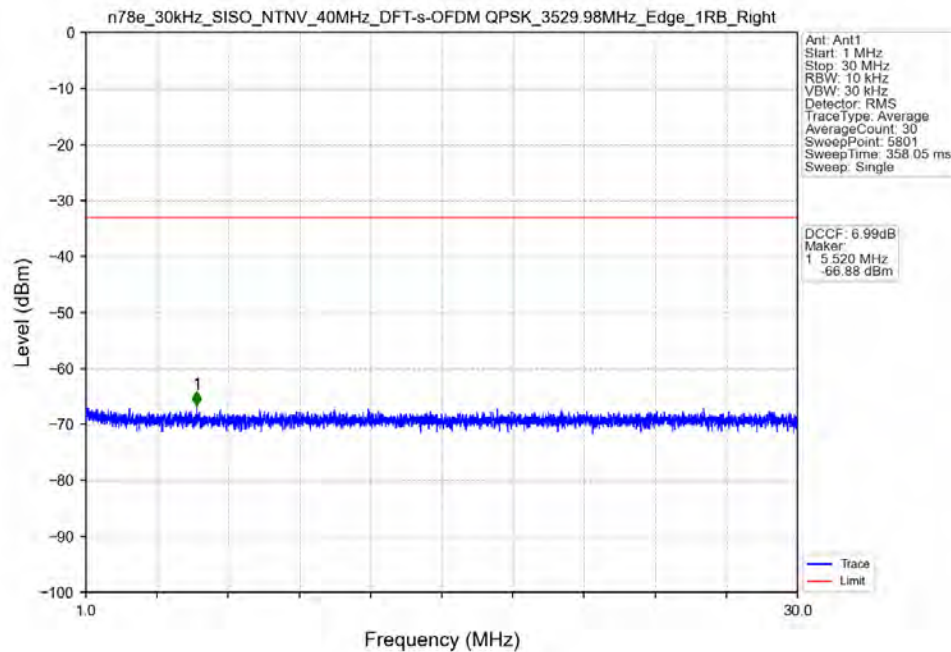


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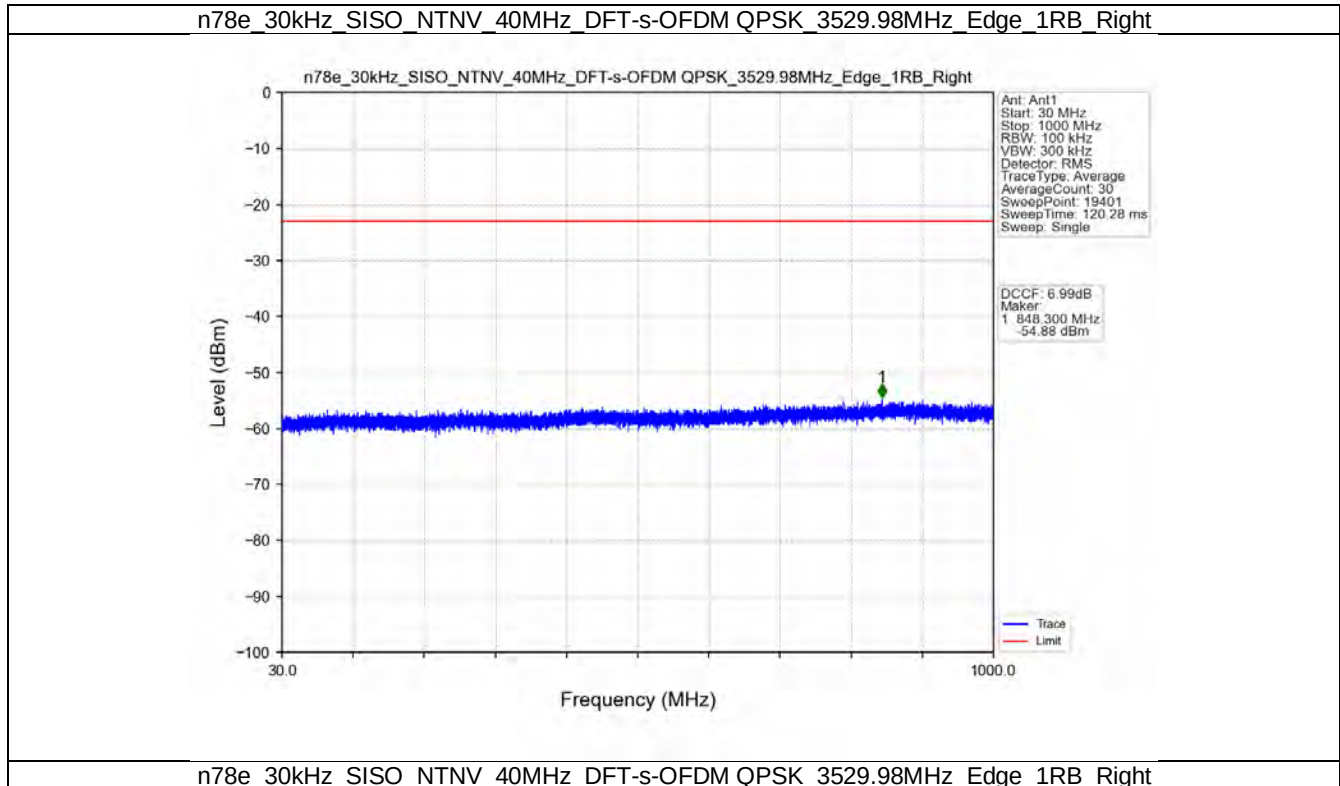


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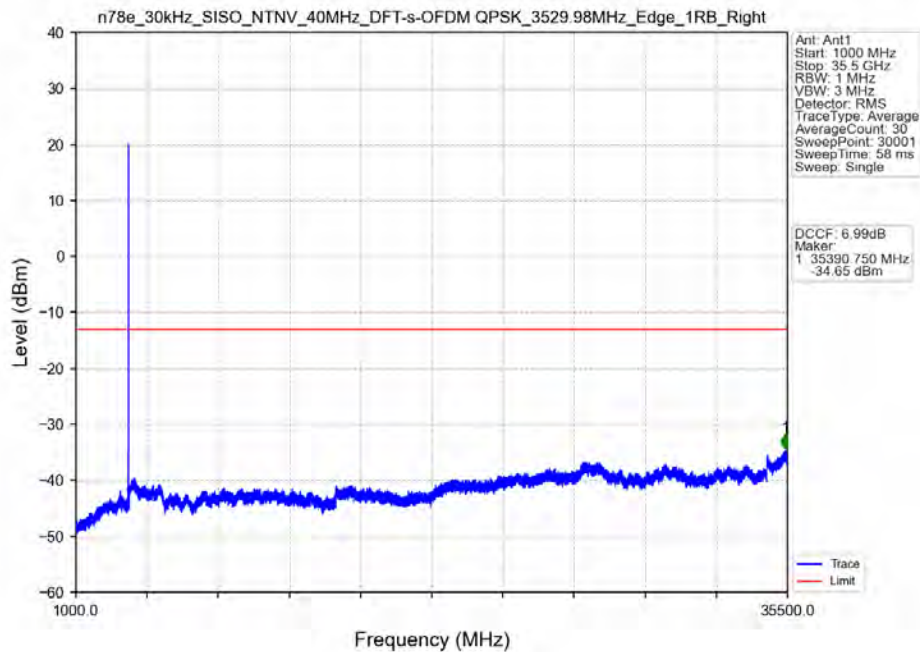


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n78e\_30kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM\_QPSK\_3529.98MHz\_Outer\_Full



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 3509.98     | 3549.98    | 0.2       | /      | 1          | 3509.980   | -33.53      | -13         | Pass   |
| 3549.98     | 3549.98    | 0.2       | /      | /          | /          | /           | /           | /      |
| 3549.98     | 3550.98    | 0.2       | /      | 2          | 3550.228   | -36.12      | -13         | Pass   |
| 3550.98     | 3554.98    | 0.5       | /      | 3          | 3555.000   | -35.10      | -13         | Pass   |

n78e\_30kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM\_QPSK\_3529.98MHz\_Inner\_1RB\_Right



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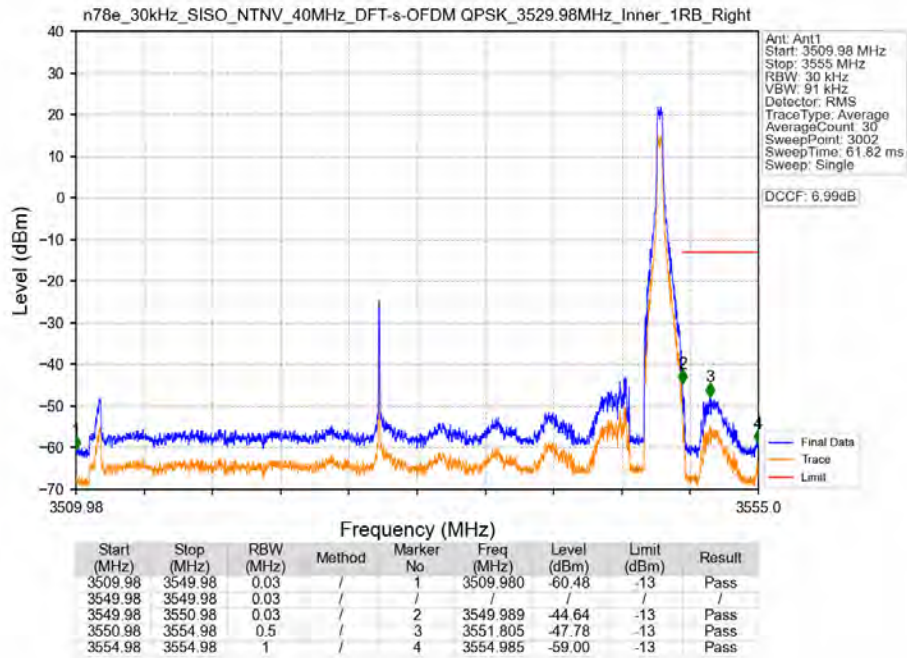


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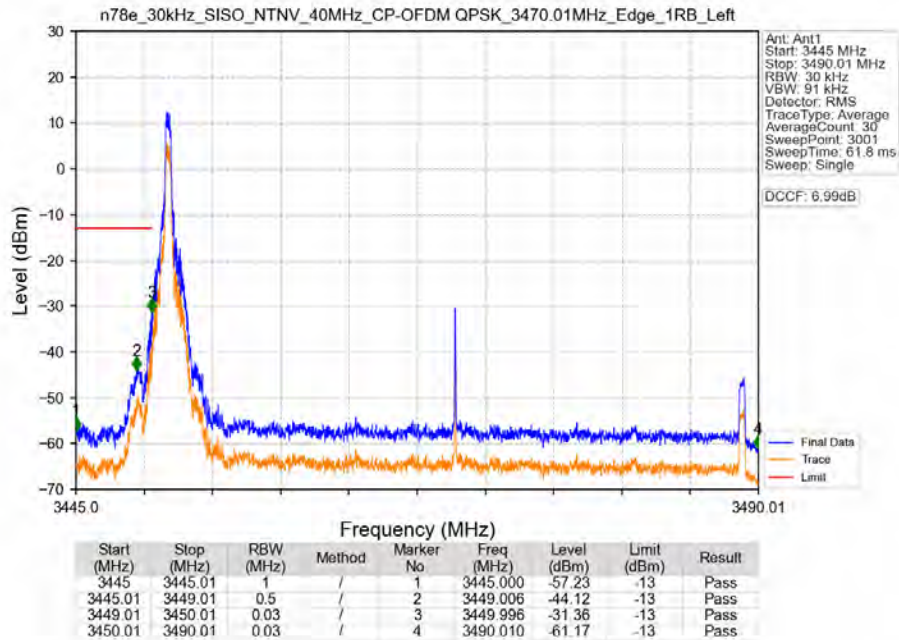
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n78e\_30kHz\_SISO\_NTNV\_40MHz\_CP-OFDM\_QPSK\_3470.01MHz\_Edge\_1RB\_Left



n78e\_30kHz\_SISO\_NTNV\_40MHz\_CP-OFDM\_QPSK\_3470.01MHz\_Edge\_1RB\_Left



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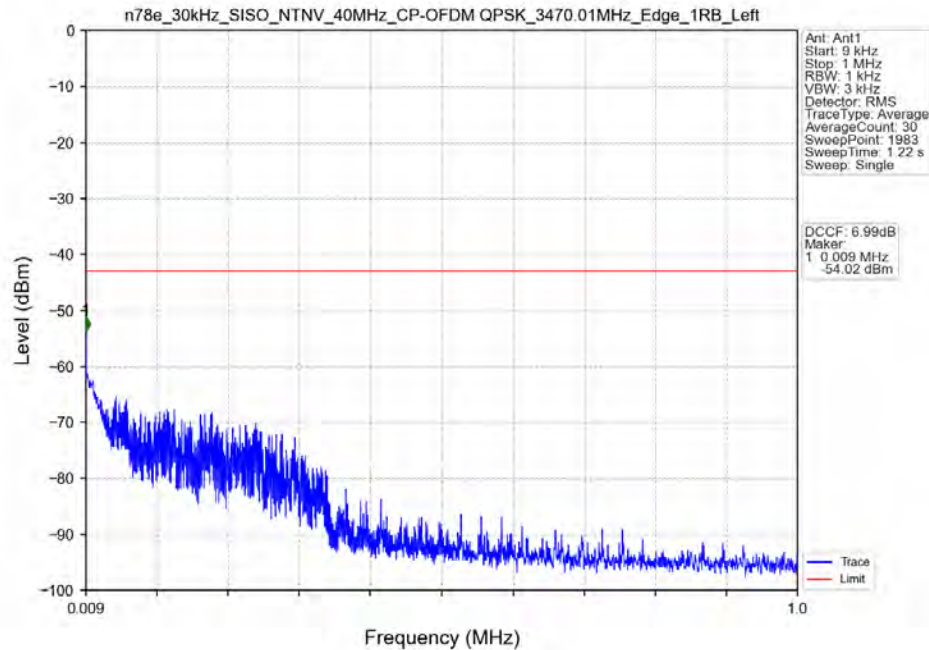


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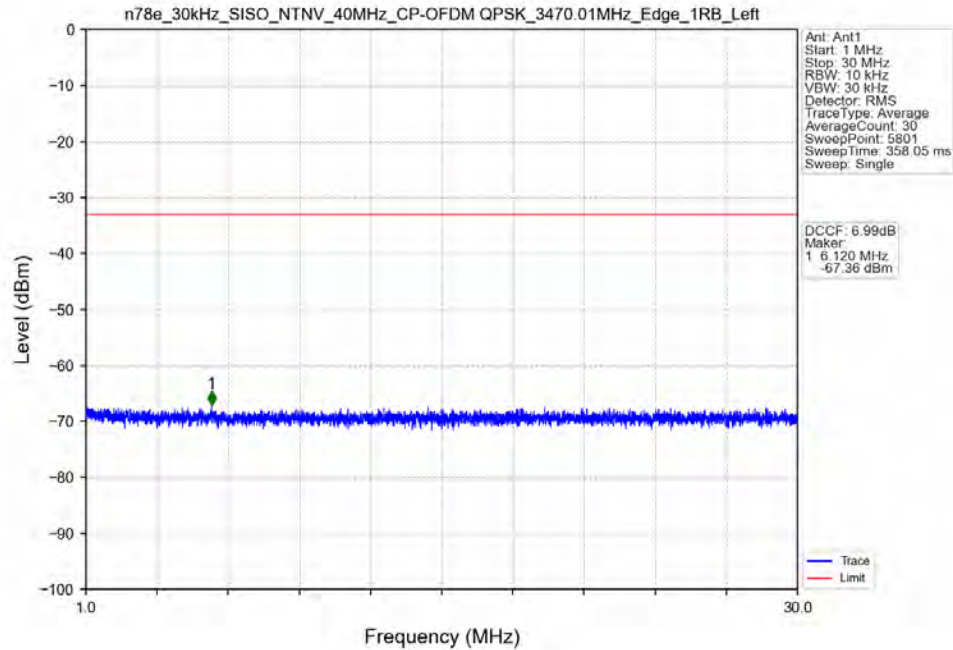
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n78e\_30kHz\_SISO\_NTNV\_40MHz\_CP-OFDM QPSK\_3470.01MHz\_Edge\_1RB\_Left



n78e\_30kHz\_SISO\_NTNV\_40MHz\_CP-OFDM QPSK\_3470.01MHz\_Edge\_1RB\_Left



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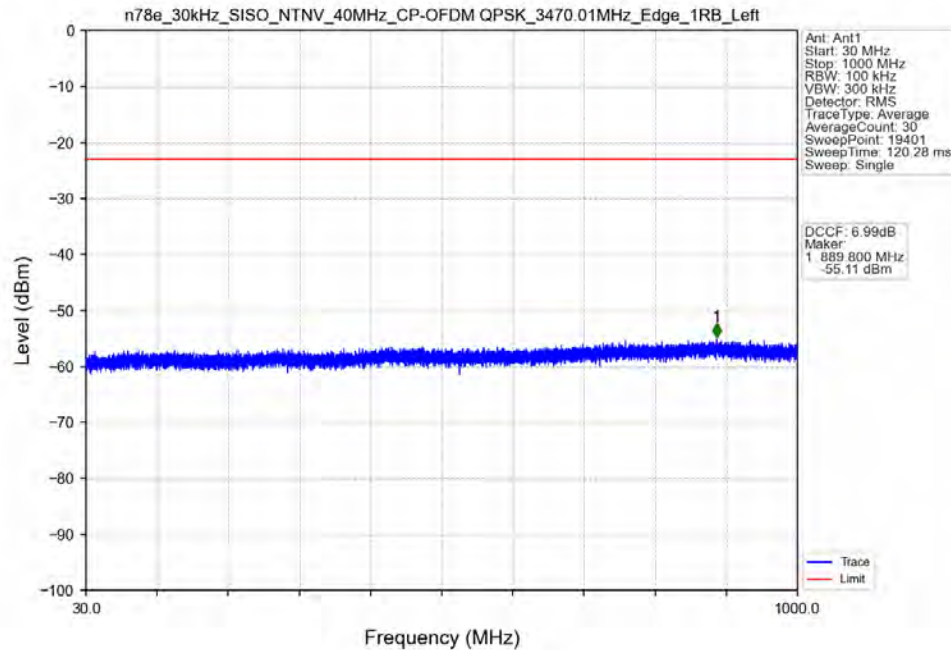


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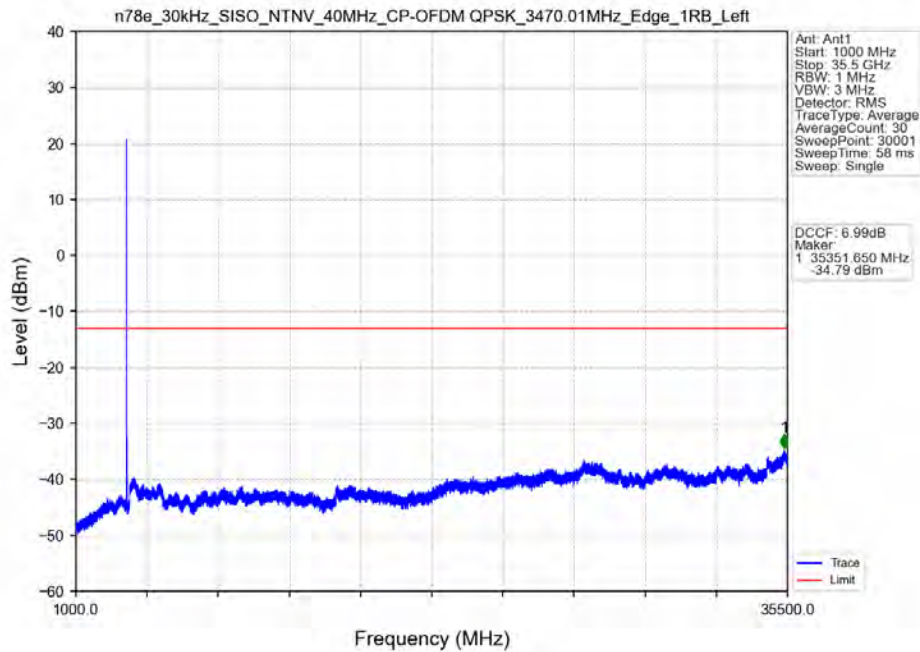
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n78e\_30kHz\_SISO\_NTNV\_40MHz\_CP-OFDM QPSK\_3470.01MHz\_Outer\_Full



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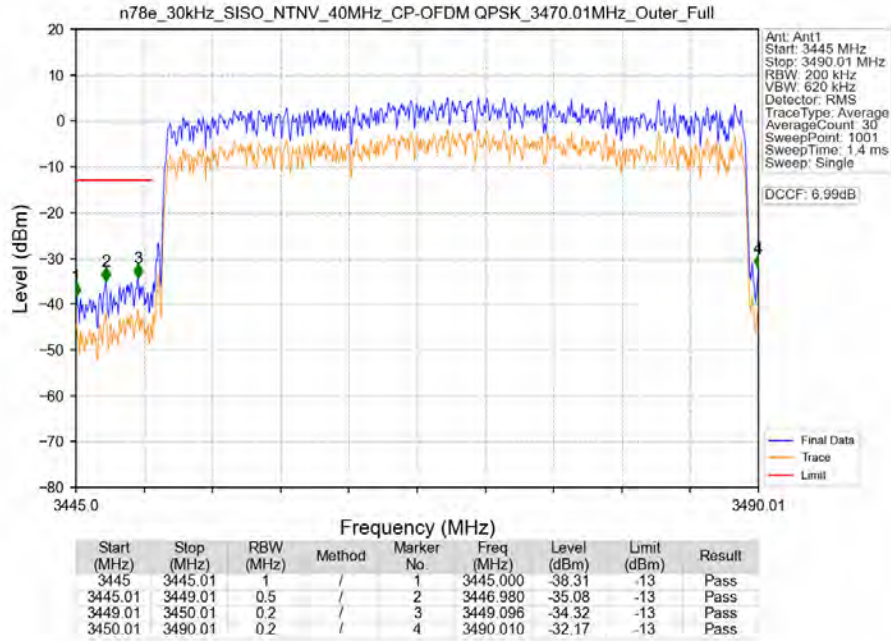


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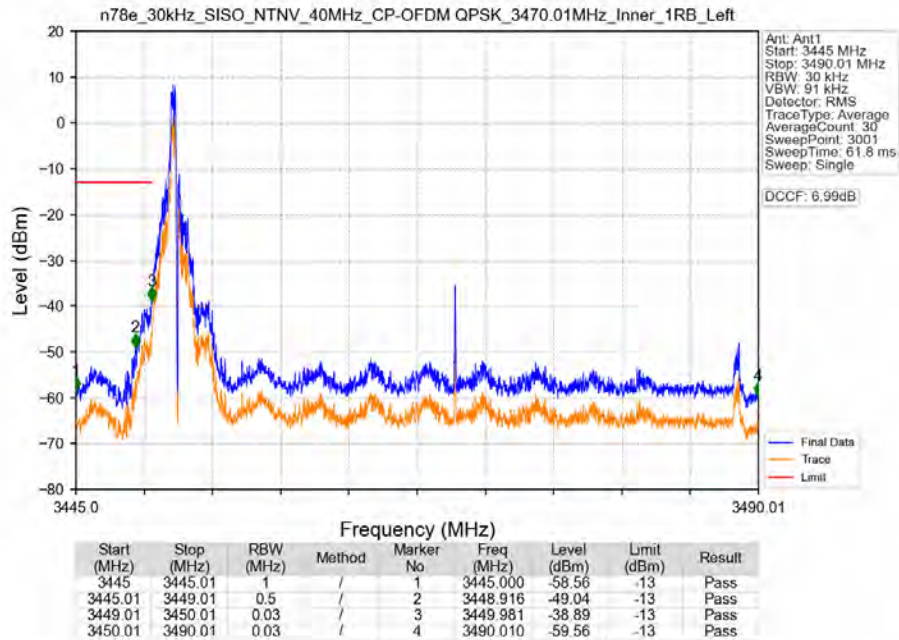
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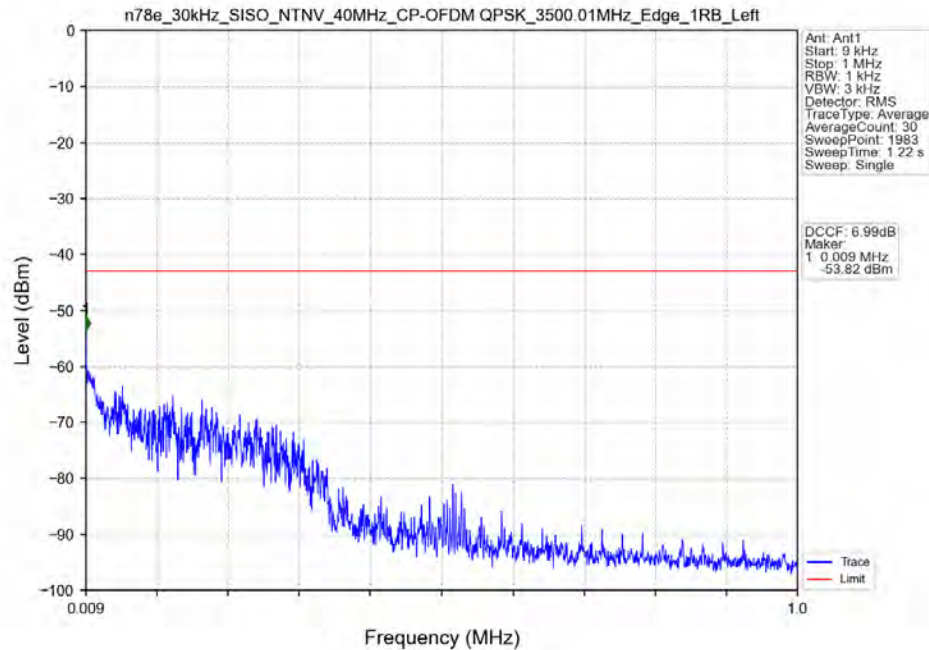


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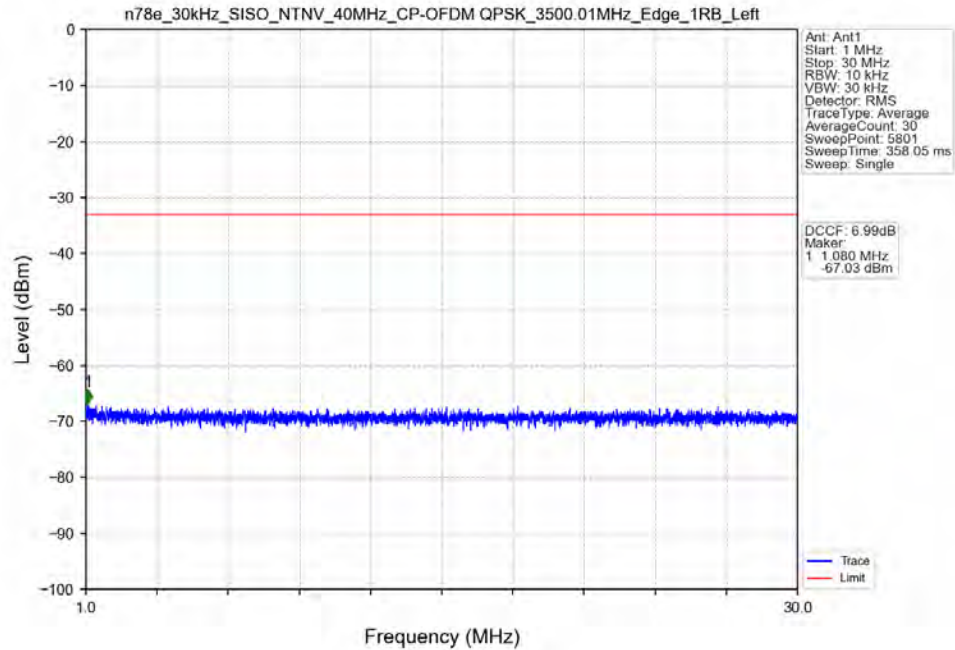
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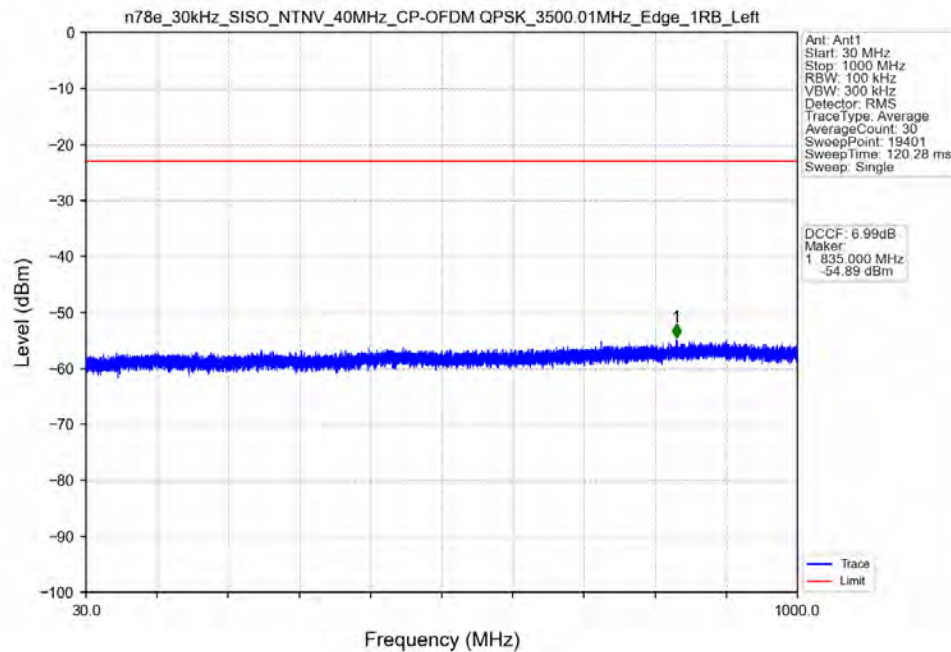


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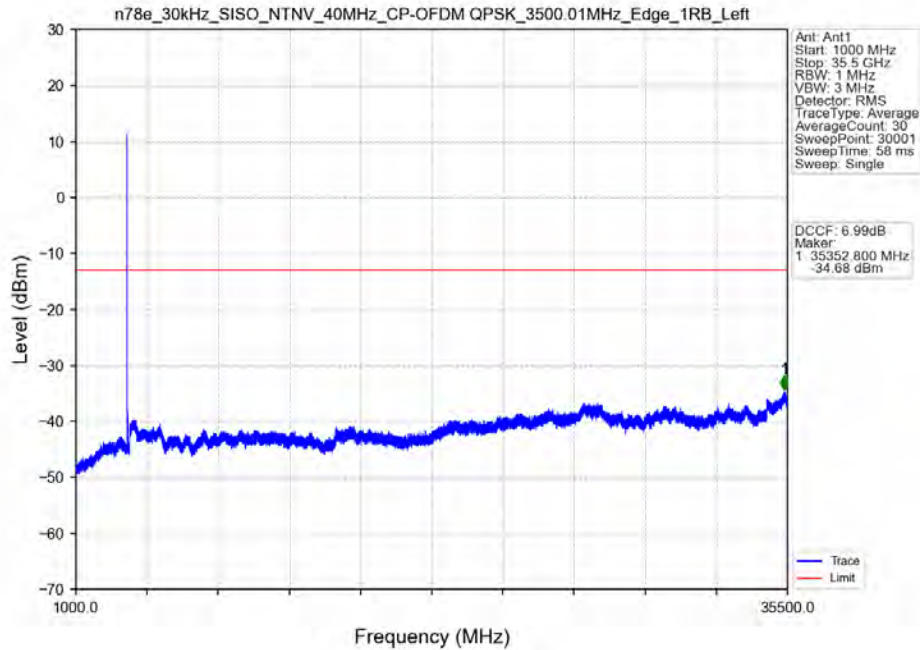
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n78e\_30kHz\_SISO\_NTNV\_40MHz\_CP-OFDM QPSK\_3500.01MHz\_Edge\_1RB\_Left



n78e\_30kHz\_SISO\_NTNV\_40MHz\_CP-OFDM QPSK\_3529.98MHz\_Edge\_1RB\_Right



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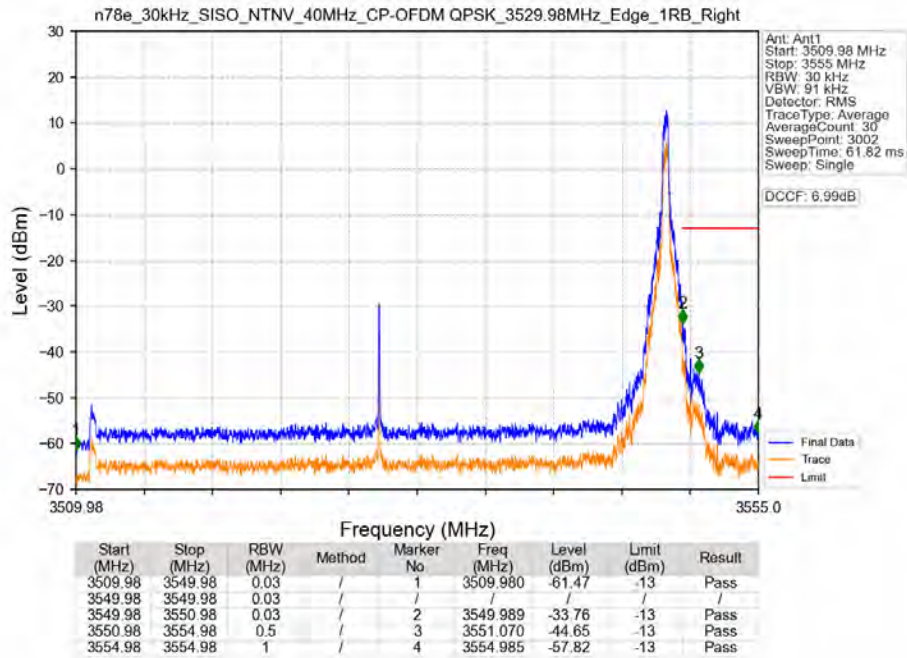


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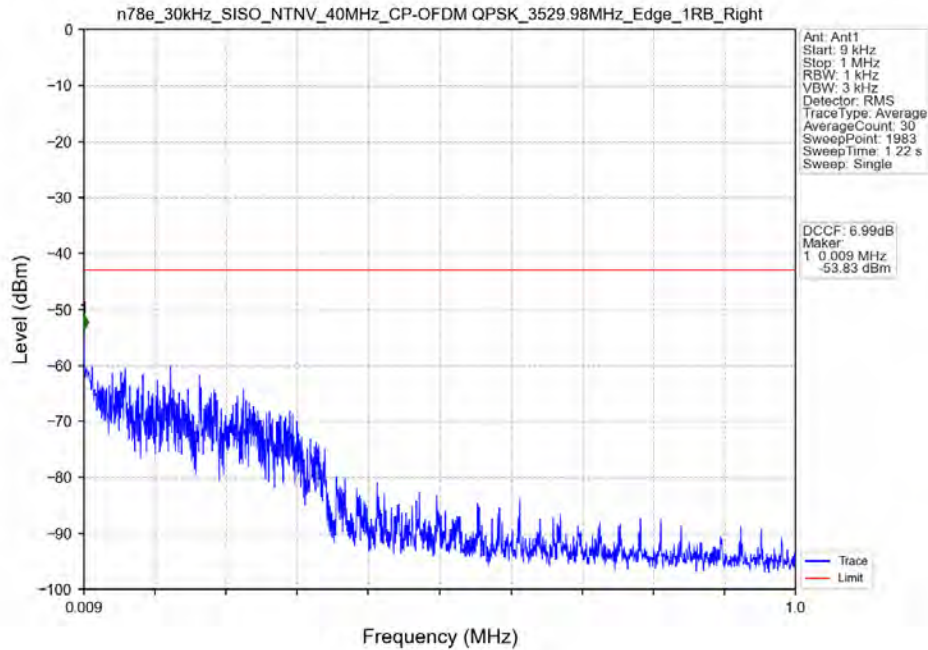
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n78e\_30kHz\_SISO\_NTNV\_40MHz\_CP-OFDM QPSK\_3529.98MHz\_Edge\_1RB\_Right



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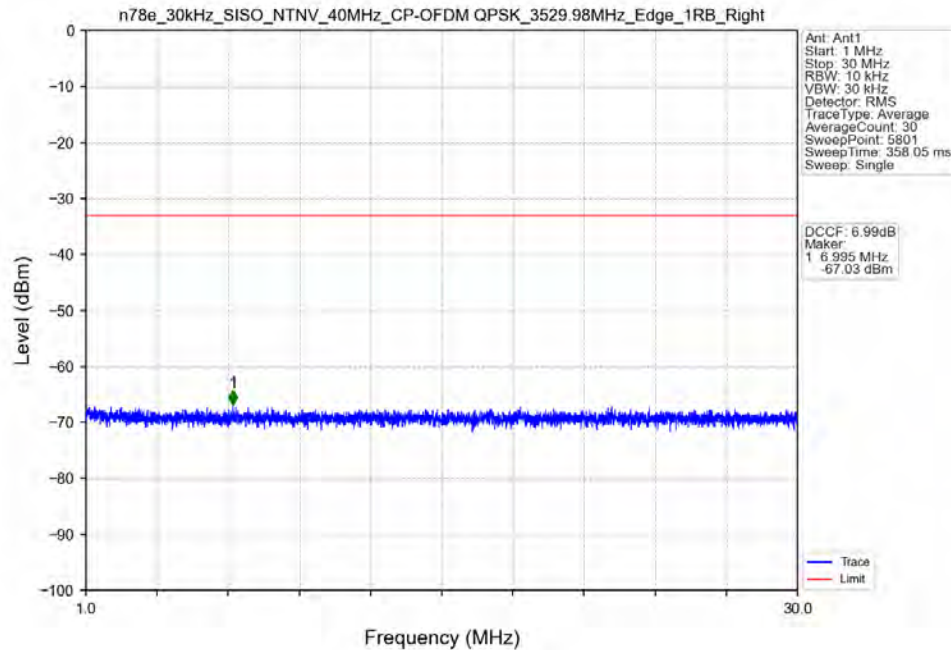


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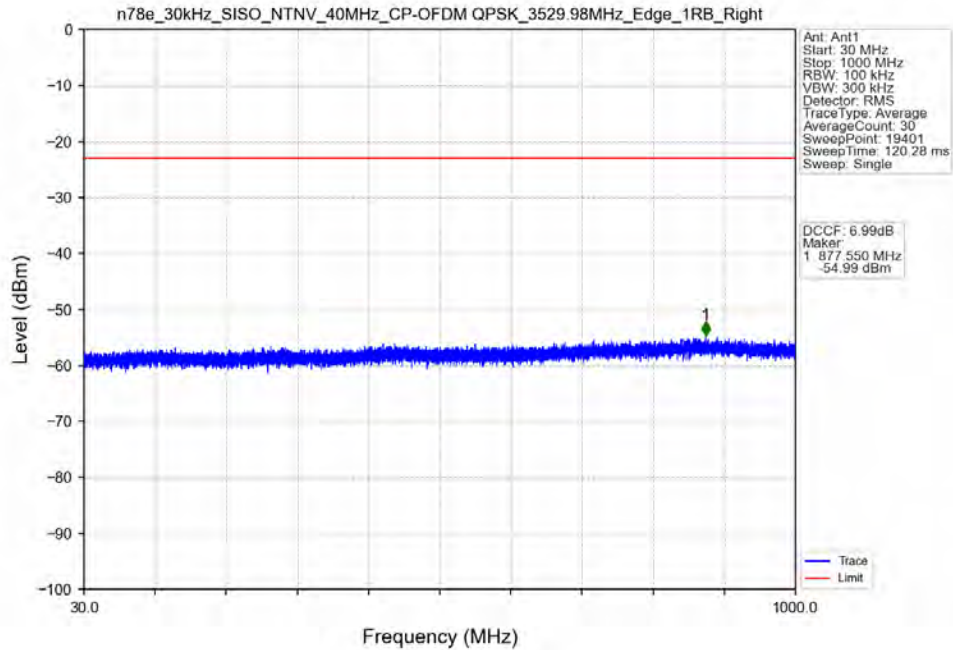
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n78e\_30kHz\_SISO\_NTNV\_40MHz\_CP-OFDM QPSK\_3529.98MHz\_Edge\_1RB\_Right



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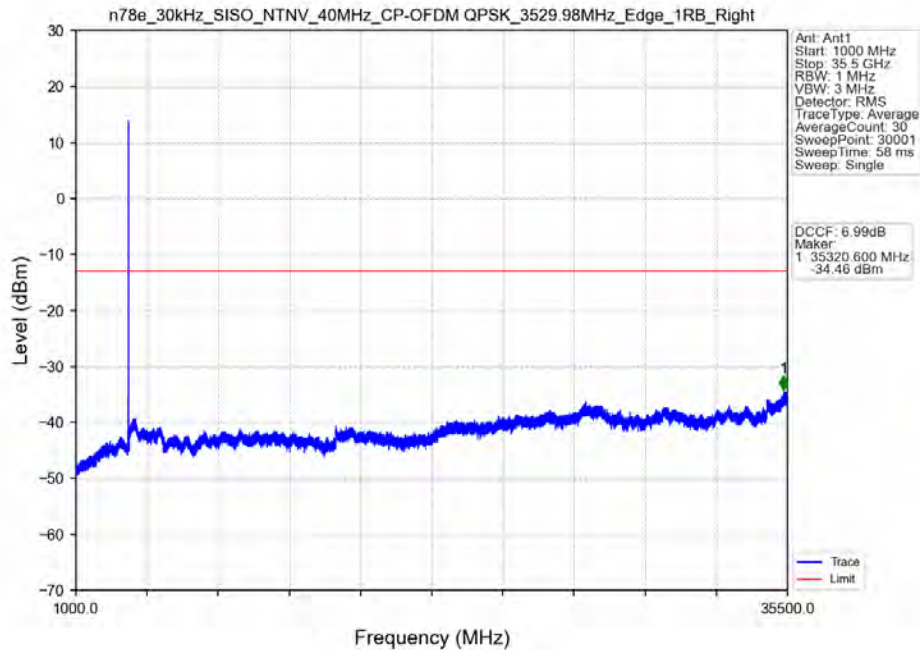


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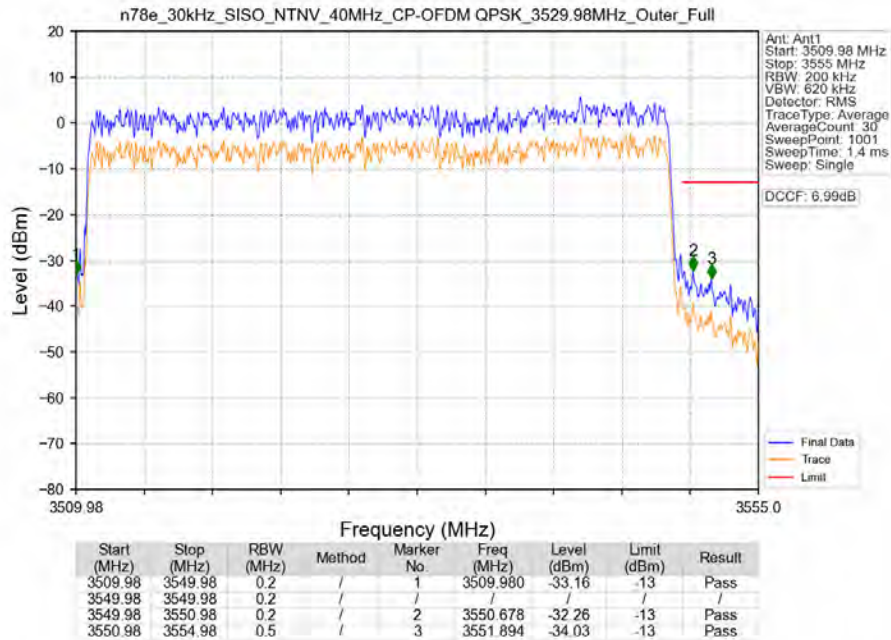
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n78e\_30kHz\_SISO\_NTNV\_40MHz\_CP-OFDM QPSK\_3529.98MHz\_Outer\_Full



n78e\_30kHz\_SISO\_NTNV\_40MHz\_CP-OFDM QPSK\_3529.98MHz\_Inner\_1RB\_Right



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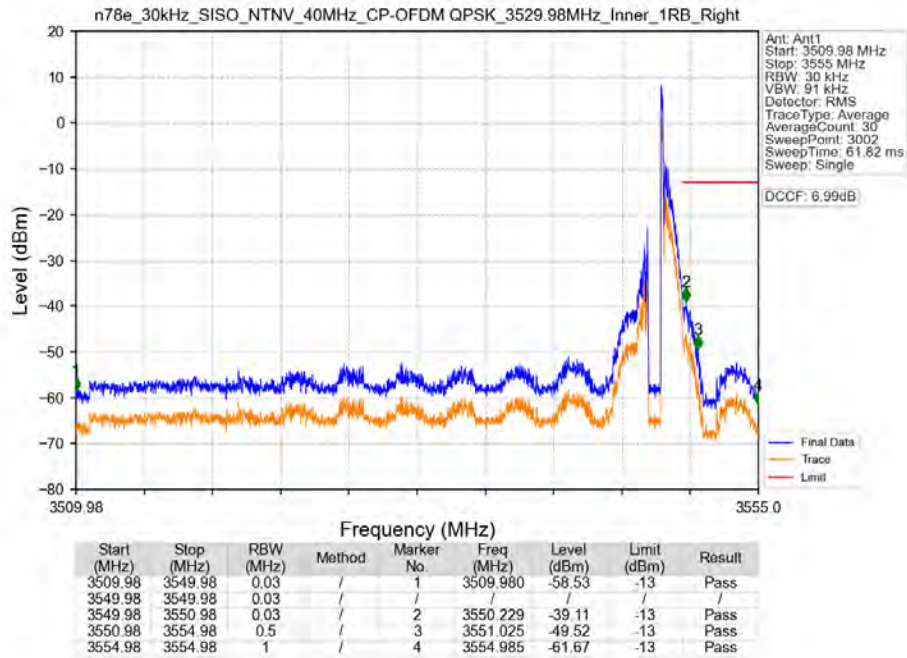


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## 5.4 30k\_SISO\_50MHz\_NTNV

### 5.4.1 Test Result

| 5G NR n78e SCS=30kHz SISO 50MHz NTN |                 |                 |                     |                     |     |       |         |      |
|-------------------------------------|-----------------|-----------------|---------------------|---------------------|-----|-------|---------|------|
| Modulation                          | Frequency (MHz) | RB Allocation   | Spurious Emission   |                     |     |       | Verdict |      |
|                                     |                 |                 | Ant1                | Ant4                | Sum | Limit |         |      |
| DFT-s-OFDM PI/2 BPSK                | 3475.02         | Edge_1RB_Left   | Refer To Test Graph |                     |     |       | Pass    |      |
|                                     |                 | Outer_Full      | Refer To Test Graph |                     |     |       | Pass    |      |
|                                     |                 | Inner_1RB_Left  | Refer To Test Graph |                     |     |       | Pass    |      |
|                                     | 3500.01         | Edge_1RB_Left   | Refer To Test Graph |                     |     |       | Pass    |      |
|                                     |                 | 3525            | Edge_1RB_Right      | Refer To Test Graph |     |       |         | Pass |
|                                     |                 |                 | Outer_Full          | Refer To Test Graph |     |       |         | Pass |
| DFT-s-OFDM QPSK                     | 3475.02         |                 | Inner_1RB_Right     | Refer To Test Graph |     |       |         | Pass |
|                                     |                 | Edge_1RB_Left   | Refer To Test Graph |                     |     |       | Pass    |      |
|                                     |                 | Outer_Full      | Refer To Test Graph |                     |     |       | Pass    |      |
|                                     | 3500.01         | Inner_1RB_Left  | Refer To Test Graph |                     |     |       | Pass    |      |
|                                     |                 | 3525            | Edge_1RB_Left       | Refer To Test Graph |     |       |         | Pass |
|                                     |                 |                 | Edge_1RB_Right      | Refer To Test Graph |     |       |         | Pass |
| CP-OFDM QPSK                        | 3475.02         |                 | Outer_Full          | Refer To Test Graph |     |       |         | Pass |
|                                     |                 | Inner_1RB_Right | Refer To Test Graph |                     |     |       | Pass    |      |
|                                     |                 | Edge_1RB_Left   | Refer To Test Graph |                     |     |       | Pass    |      |
|                                     | 3500.01         | Outer_Full      | Refer To Test Graph |                     |     |       | Pass    |      |
|                                     |                 | 3525            | Edge_1RB_Left       | Refer To Test Graph |     |       |         | Pass |
|                                     |                 |                 | Edge_1RB_Right      | Refer To Test Graph |     |       |         | Pass |



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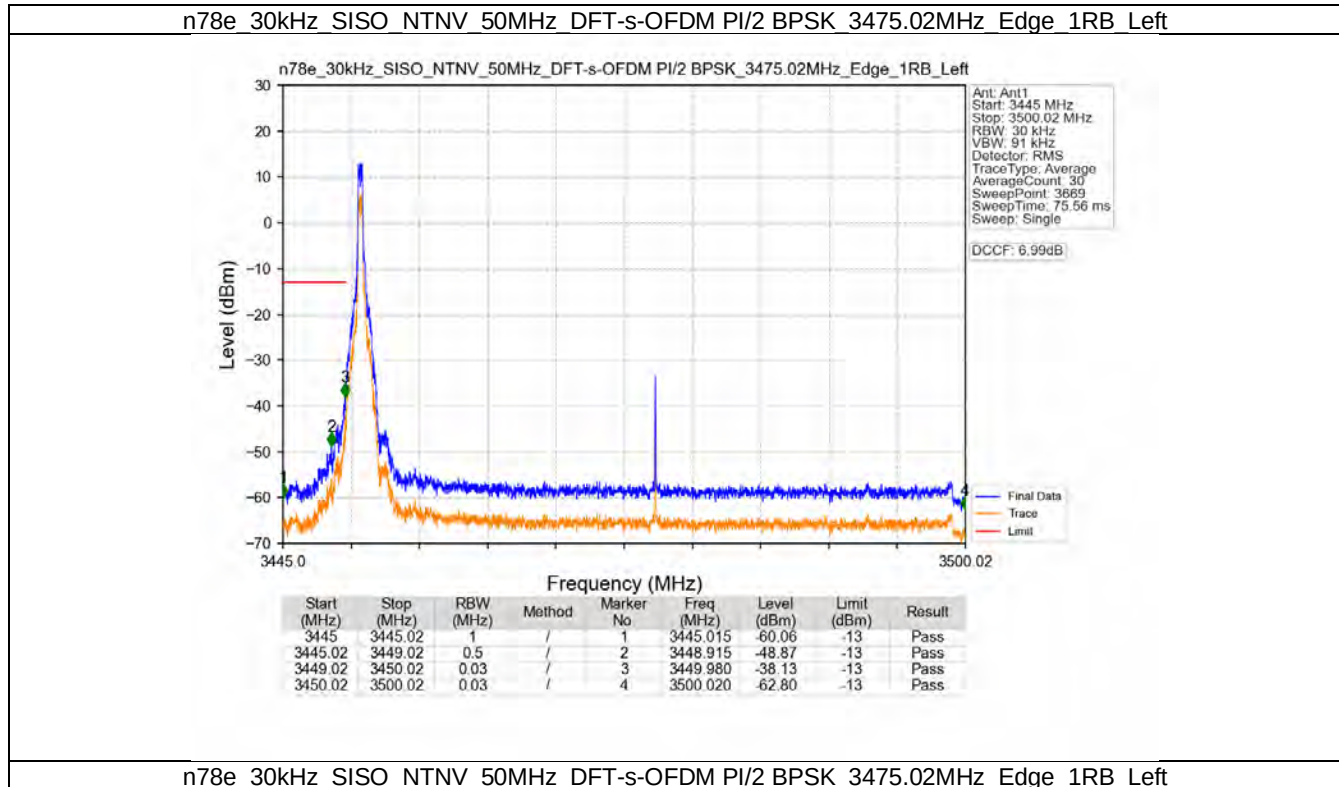
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## 5.4.2 Test Graph



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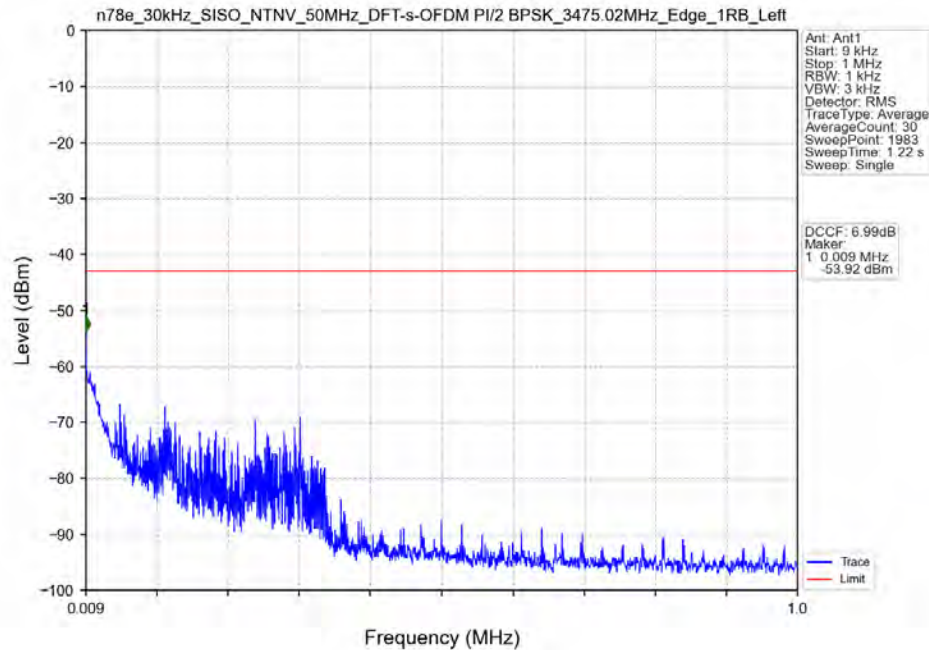


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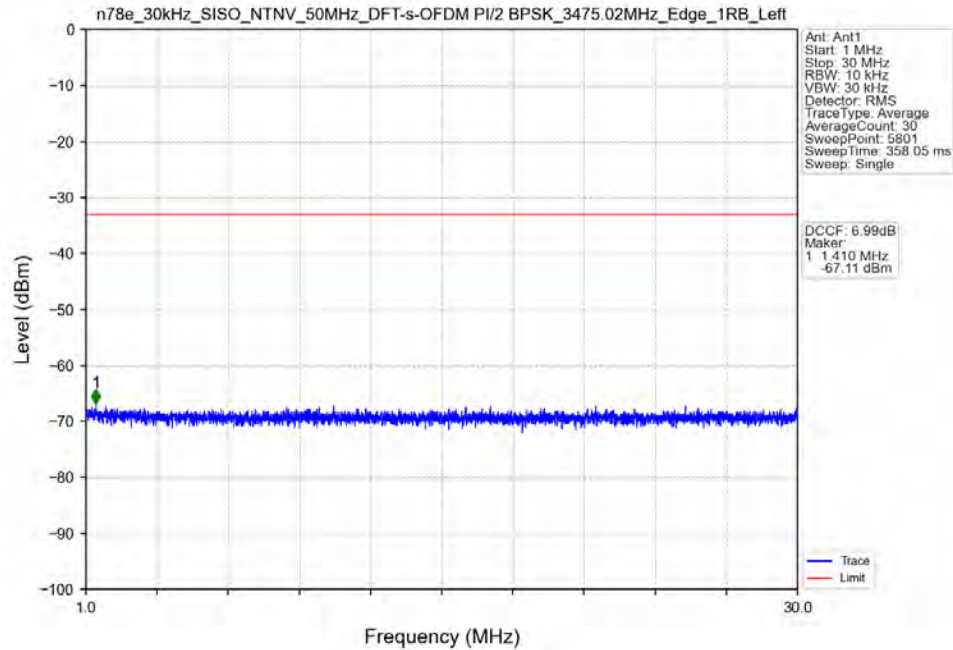
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n78e\_30kHz\_SISO\_NTNV\_50MHz\_DFT-s-OFDM PI/2 BPSK\_3475.02MHz\_Edge\_1RB\_Left



n78e\_30kHz\_SISO\_NTNV\_50MHz\_DFT-s-OFDM PI/2 BPSK\_3475.02MHz\_Edge\_1RB\_Left



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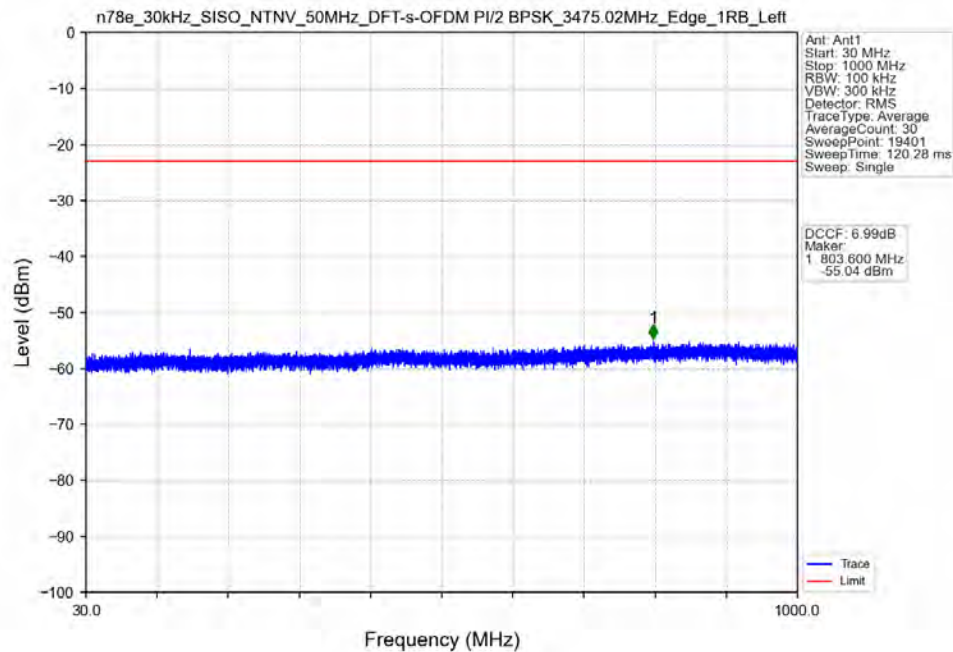


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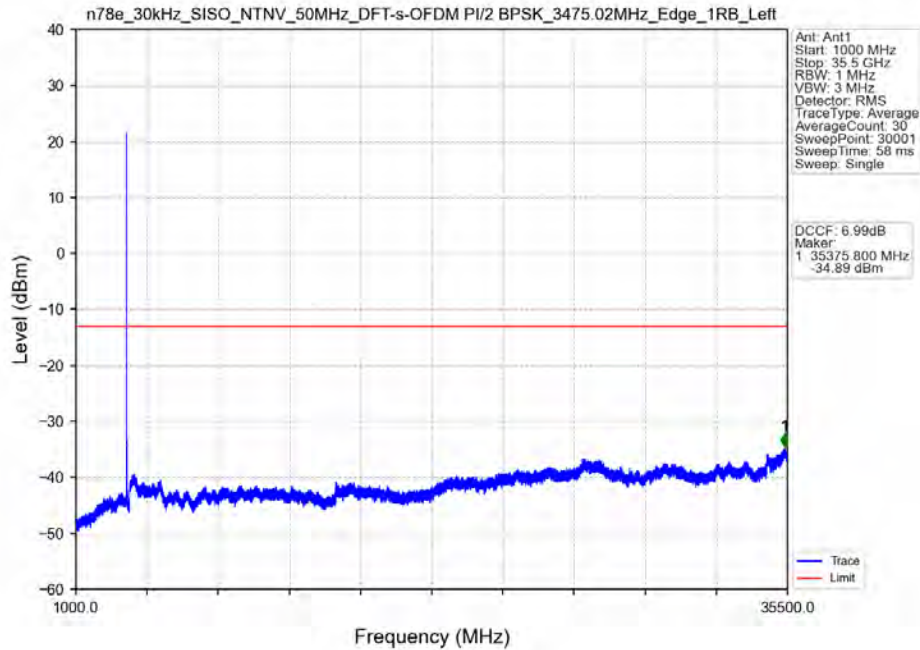
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n78e\_30kHz\_SISO\_NTNV\_50MHz\_DFT-s-OFDM PI/2 BPSK\_3475.02MHz\_Edge\_1RB\_Left



n78e\_30kHz\_SISO\_NTNV\_50MHz\_DFT-s-OFDM PI/2 BPSK\_3475.02MHz\_Outer\_Full



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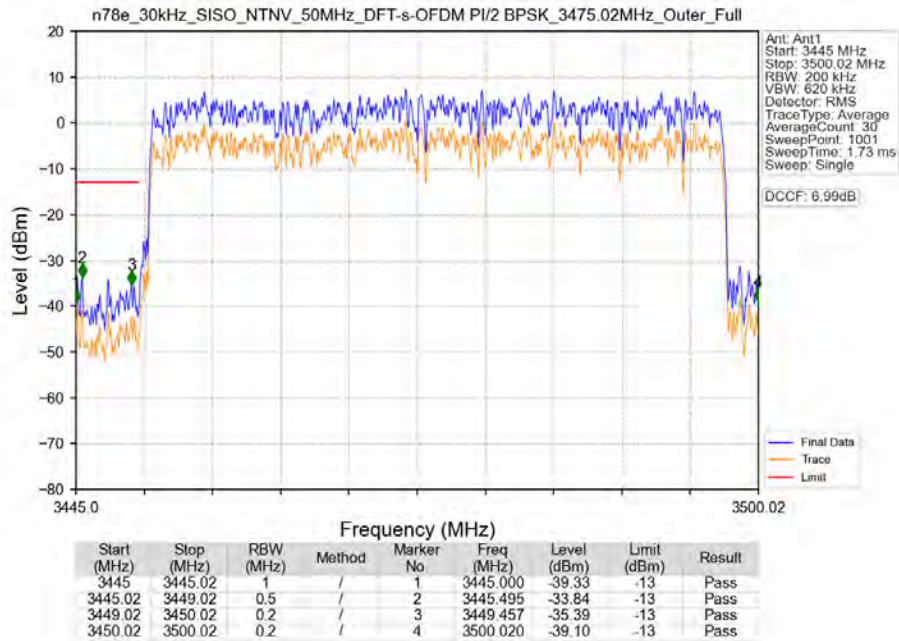


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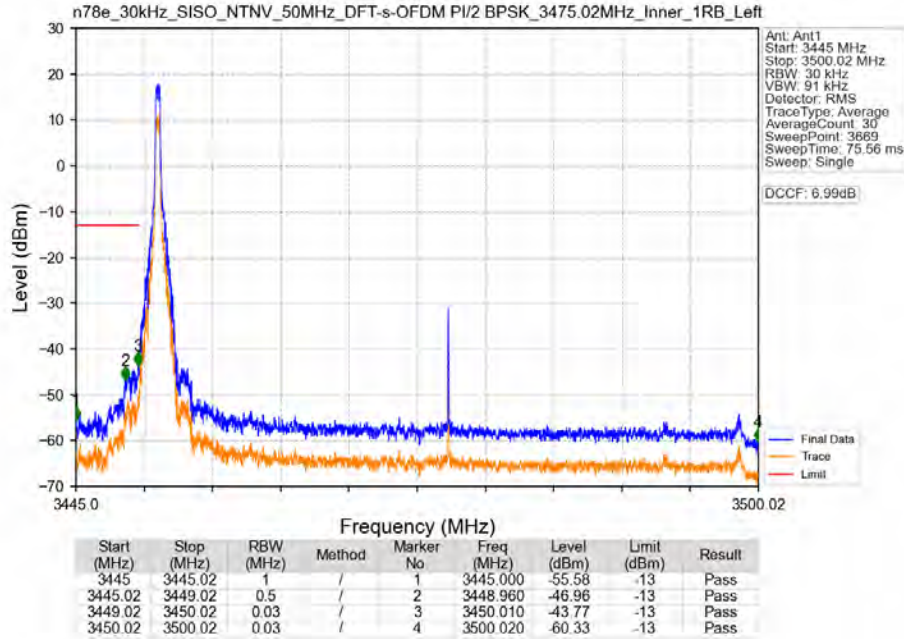
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n78e\_30kHz\_SISO\_NTNV\_50MHz\_DFT-s-OFDM PI/2 BPSK 3500.01MHz\_Edge\_1RB\_Left



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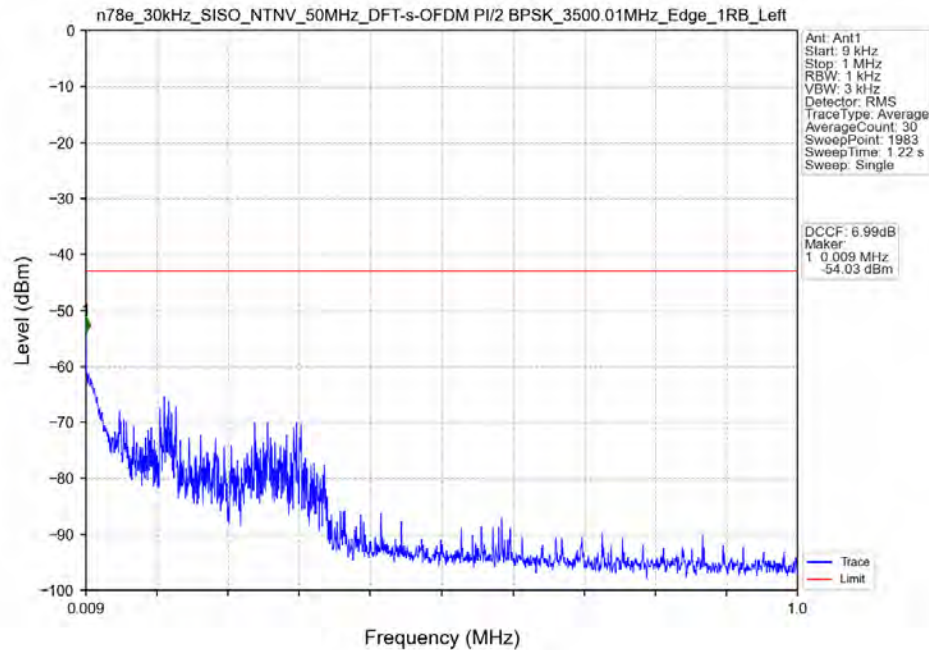


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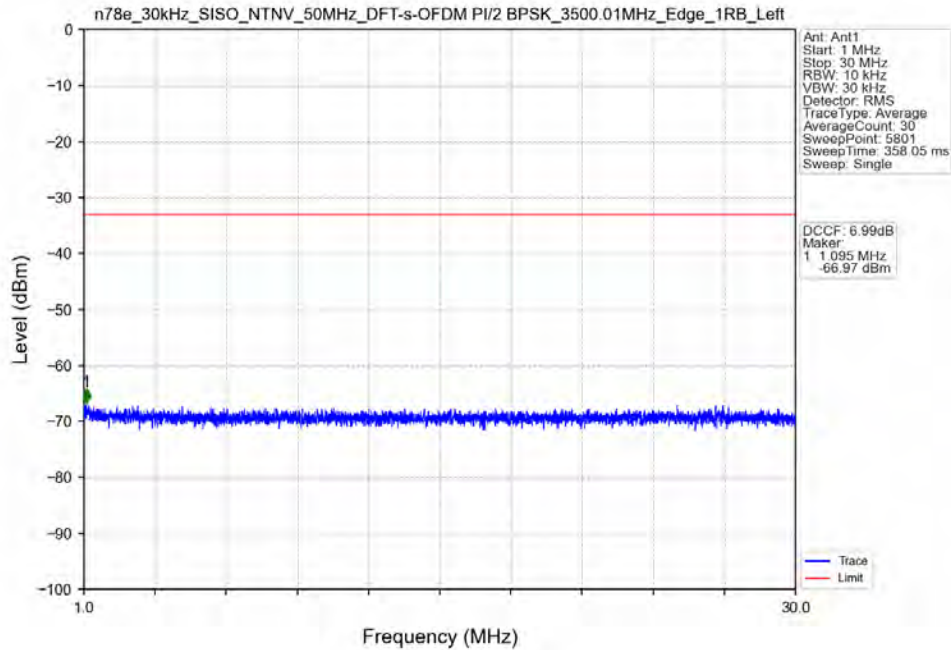
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n78e\_30kHz\_SISO\_NTNV\_50MHz\_DFT-s-OFDM PI/2 BPSK\_3500.01MHz\_Edge\_1RB\_Left



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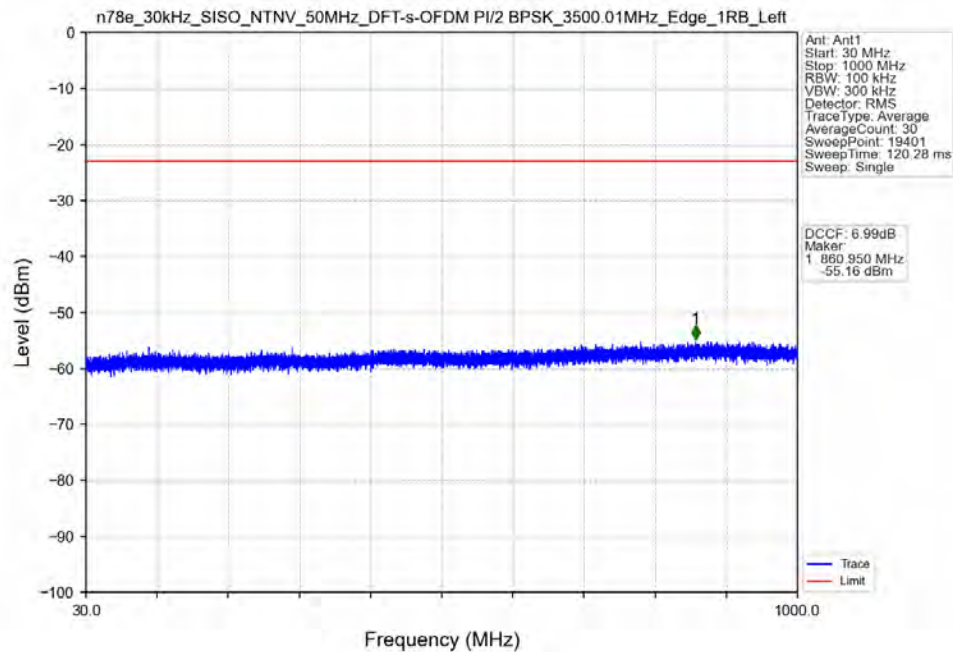


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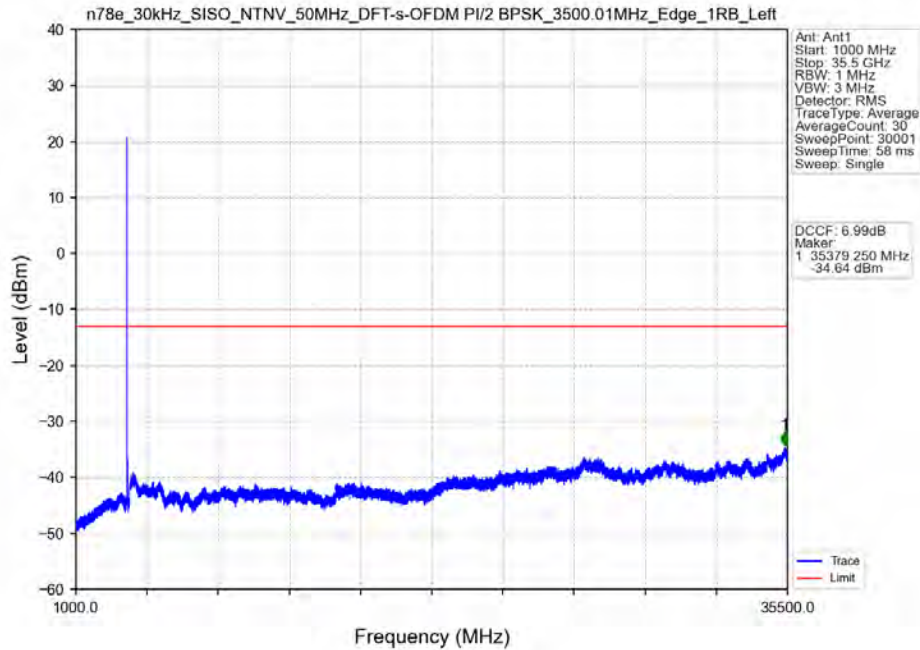
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n78e\_30kHz\_SISO\_NTNV\_50MHz\_DFT-s-OFDM PI/2 BPSK\_3500.01MHz\_Edge\_1RB\_Left



n78e\_30kHz\_SISO\_NTNV\_50MHz\_DFT-s-OFDM PI/2 BPSK\_3525MHz\_Edge\_1RB\_Right



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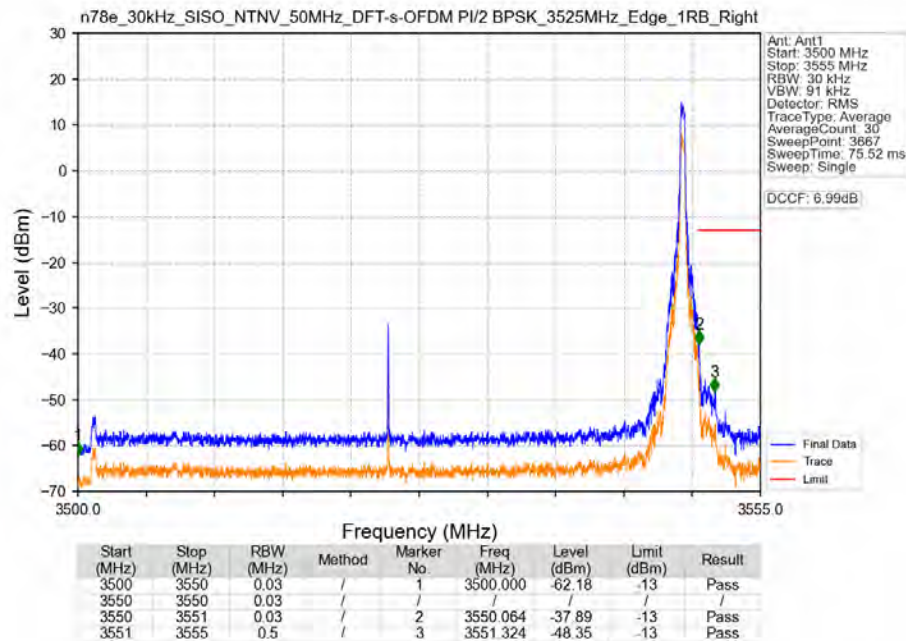


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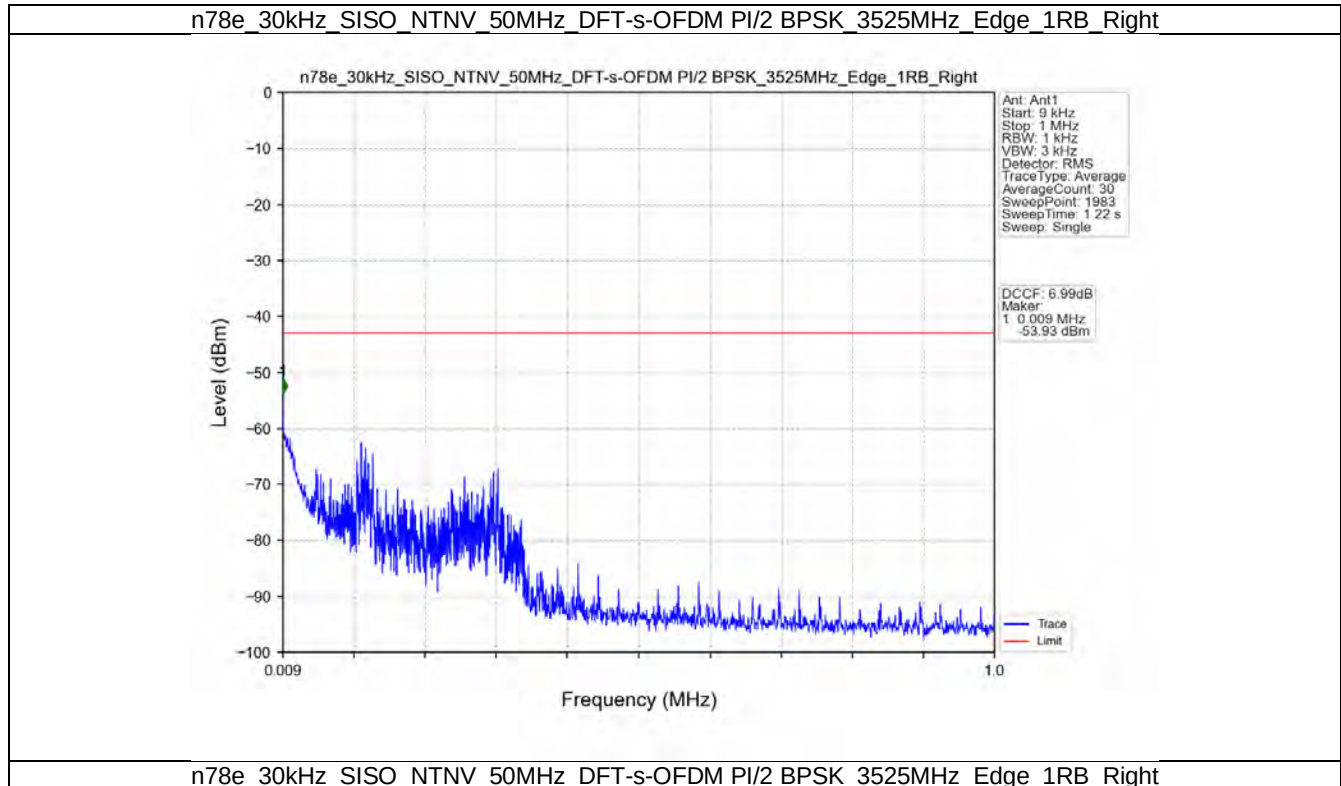


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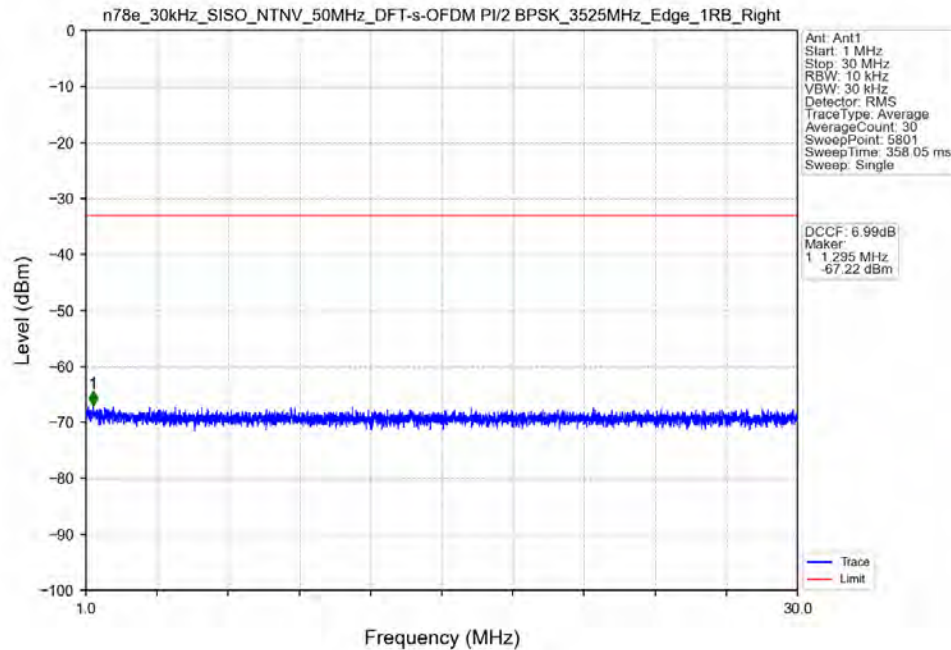


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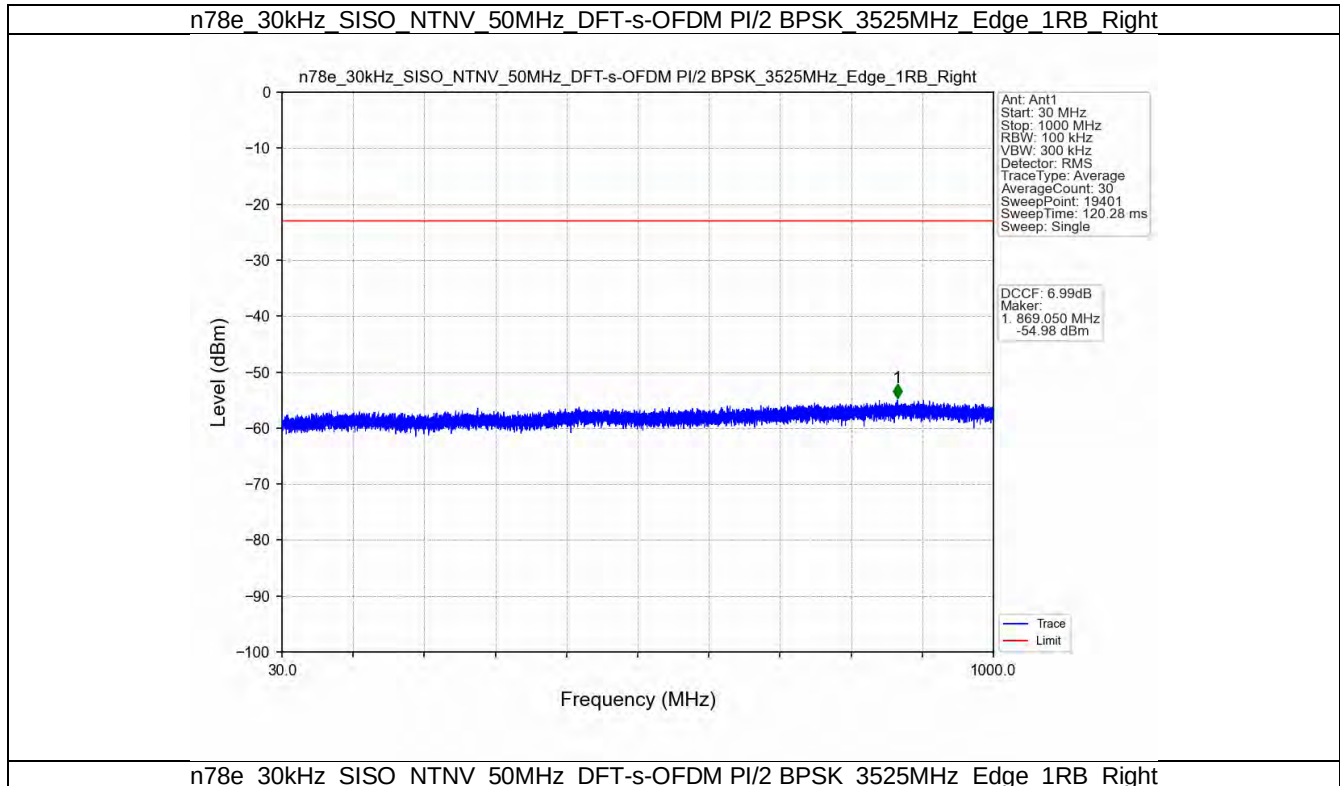


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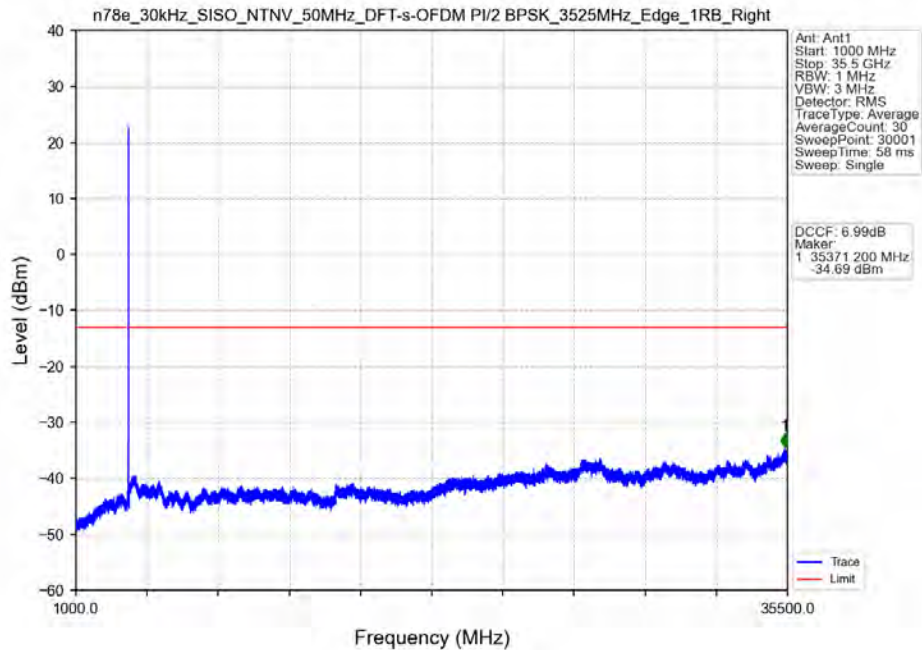


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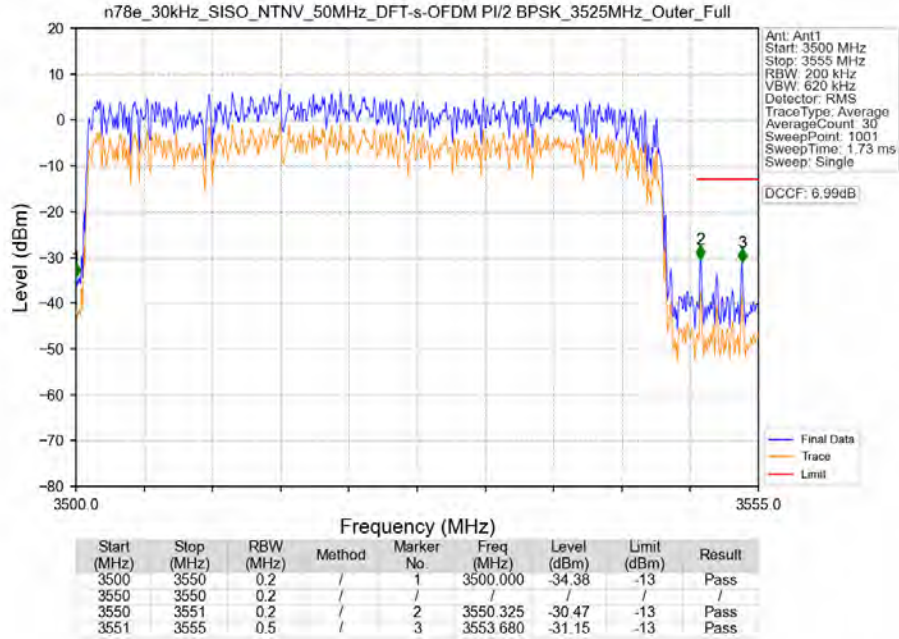
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n78e\_30kHz\_SISO\_NTNV\_50MHz\_DFT-s-OFDM PI/2 BPSK\_3525MHz\_Inner\_1RB\_Right



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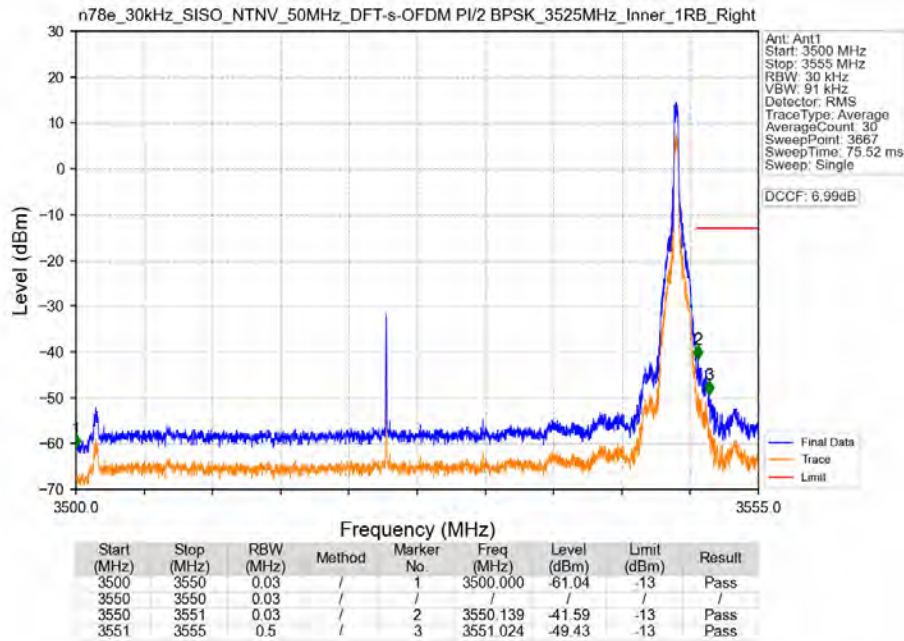


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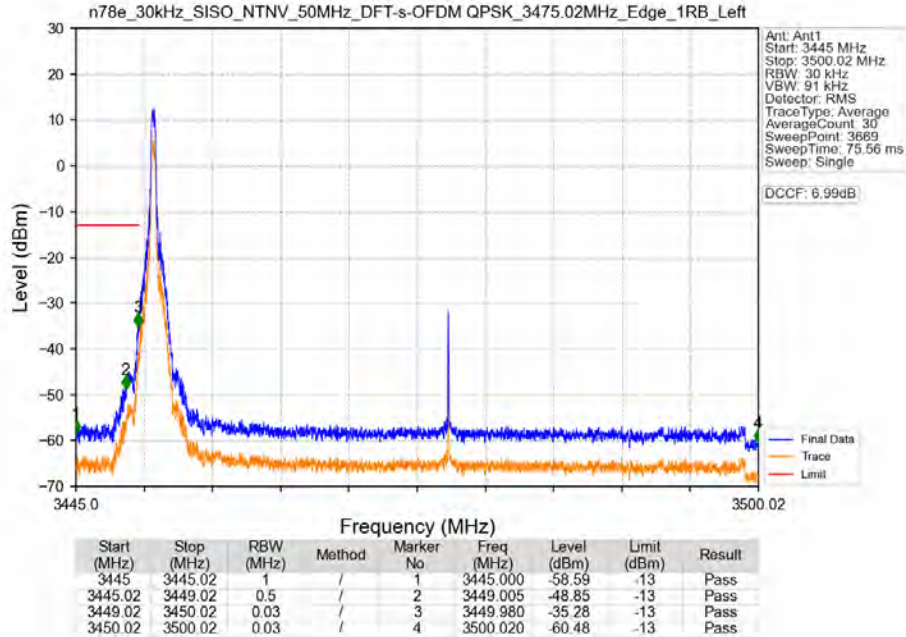
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n78e\_30kHz\_SISO\_NTNV\_50MHz\_DFT-s-OFDM\_QPSK\_3475.02MHz\_Edge\_1RB\_Left



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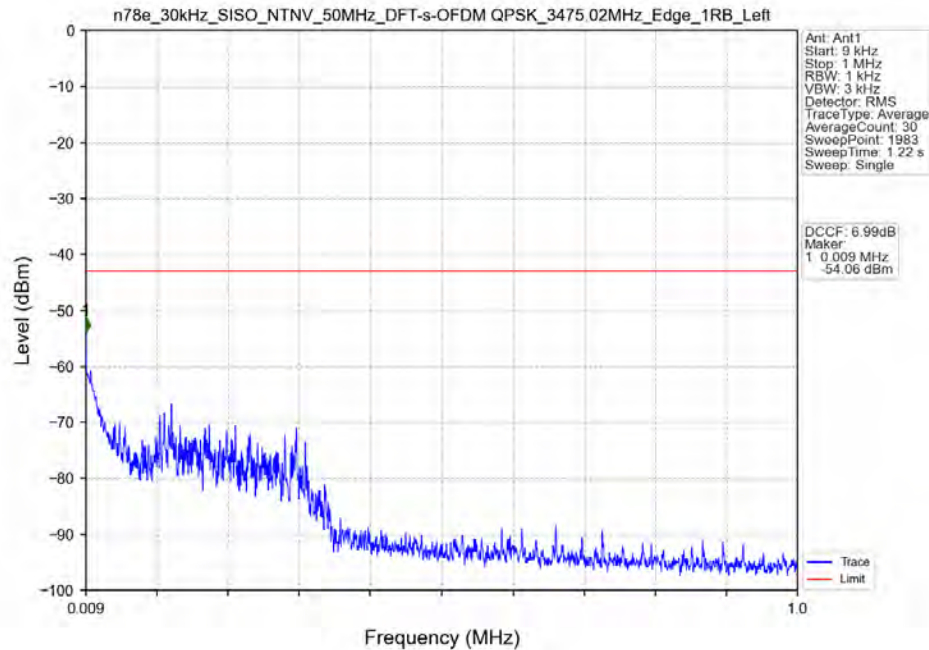


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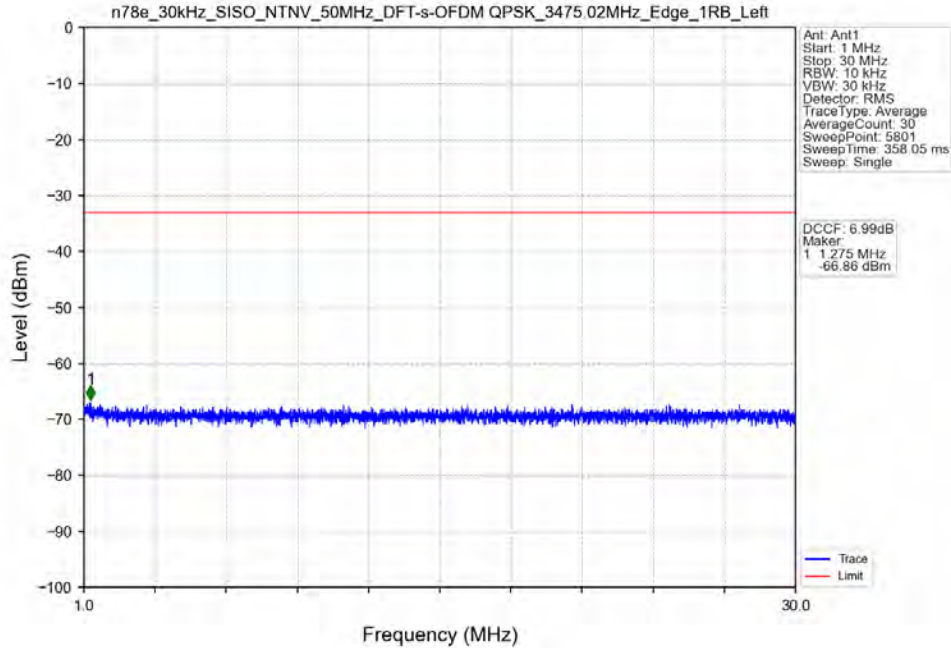
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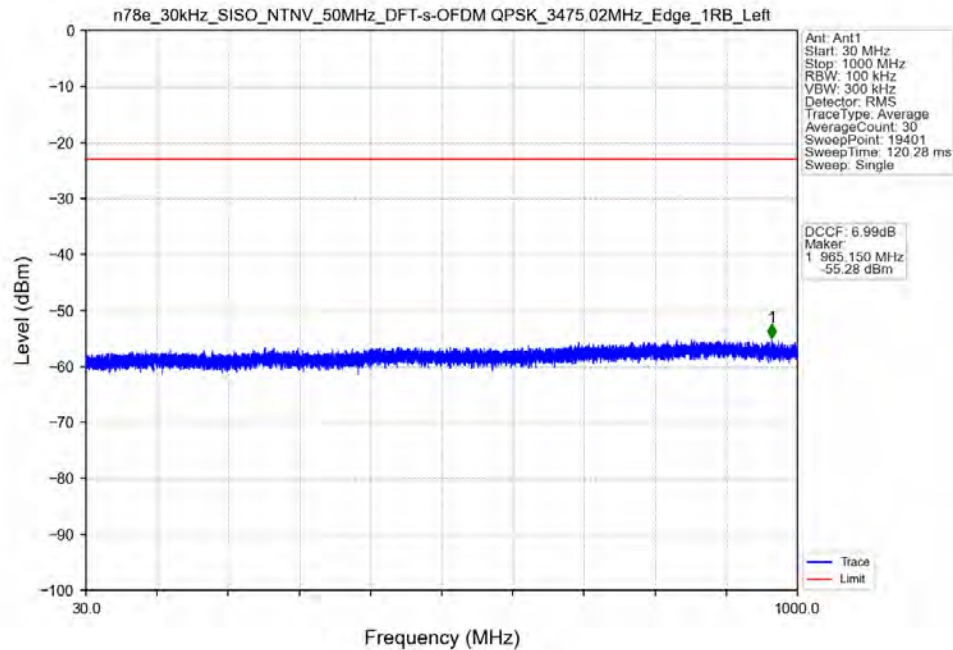


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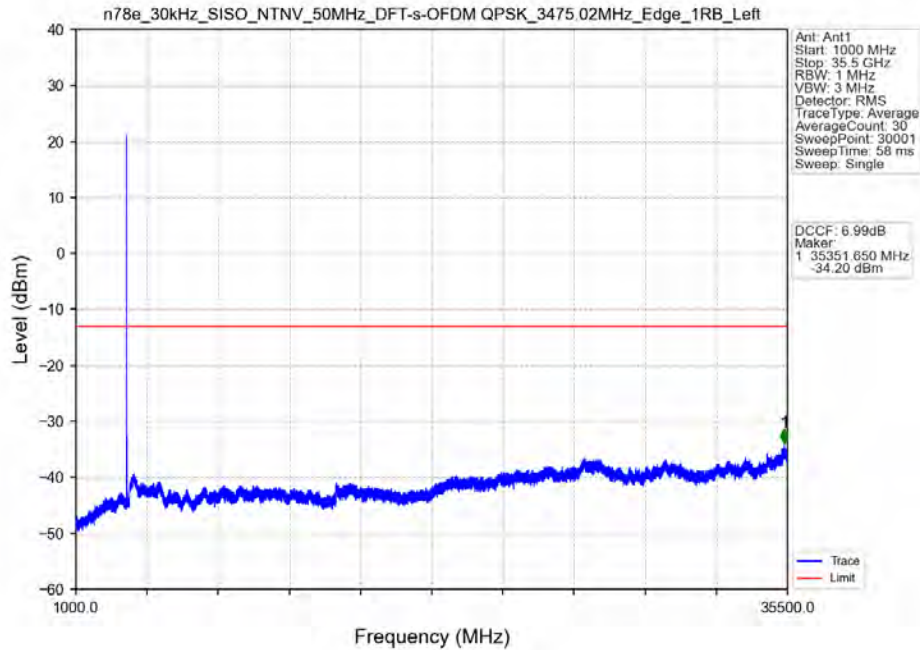
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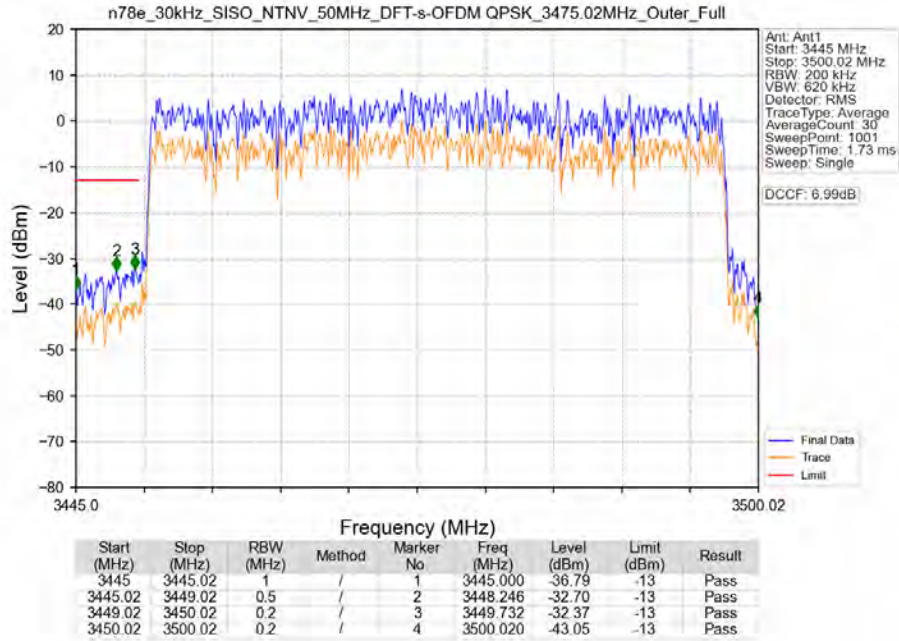


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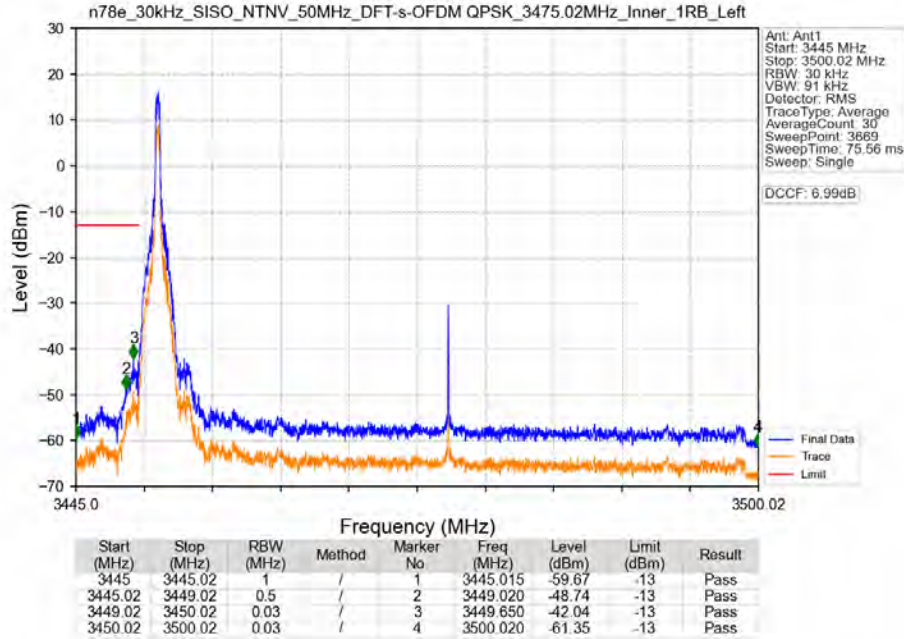
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n78e\_30kHz\_SISO\_NTNV\_50MHz\_DFT-s-OFDM\_QPSK\_3500.01MHz\_Edge\_1RB\_Left



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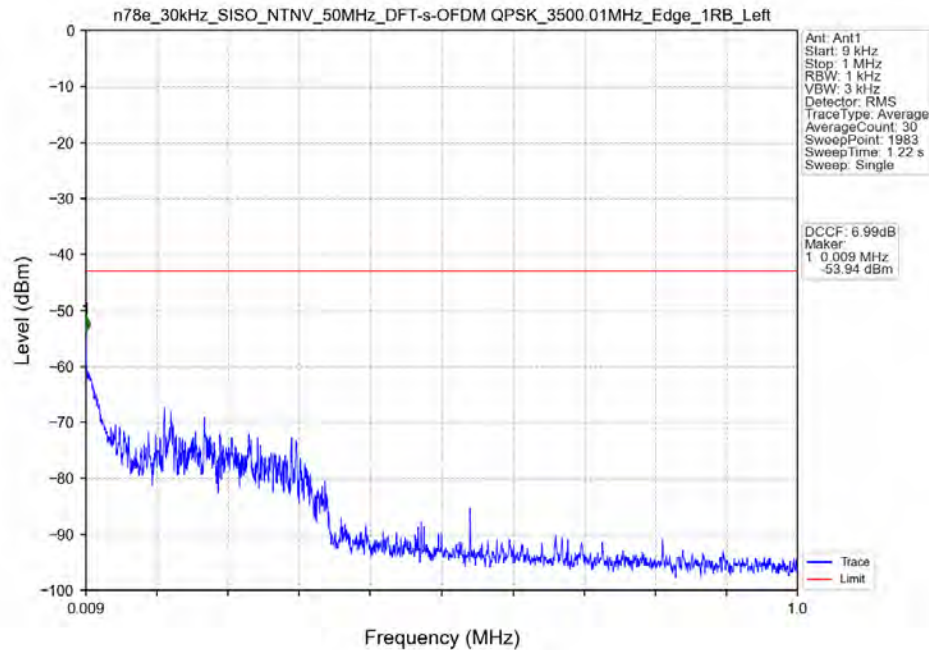


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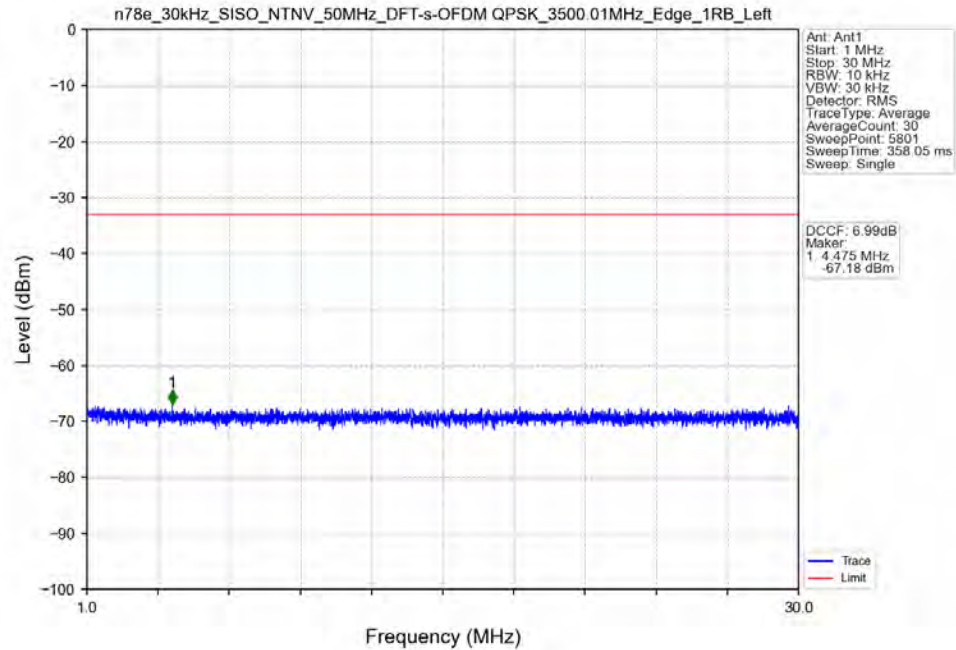
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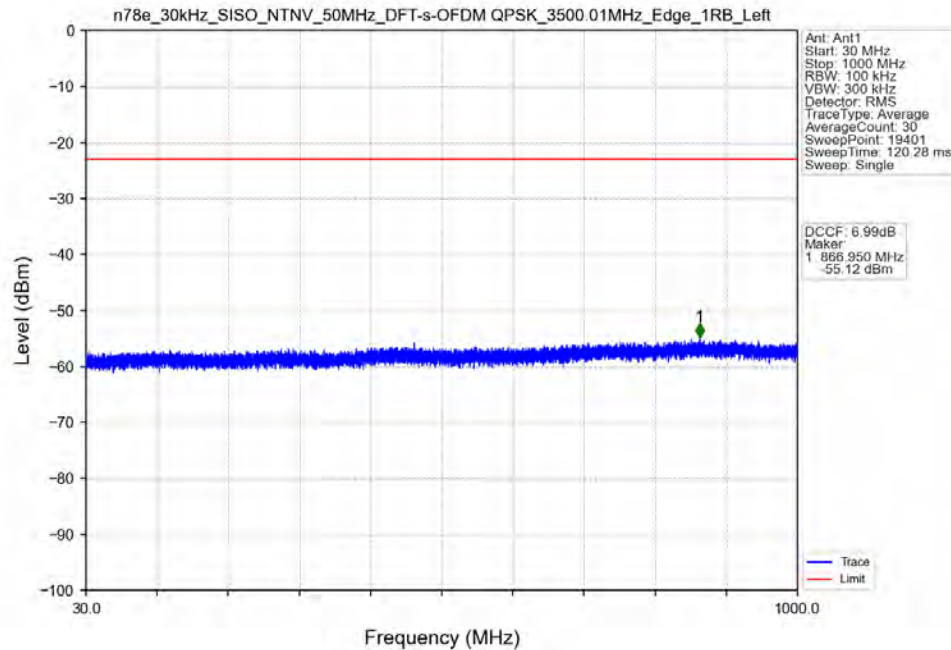


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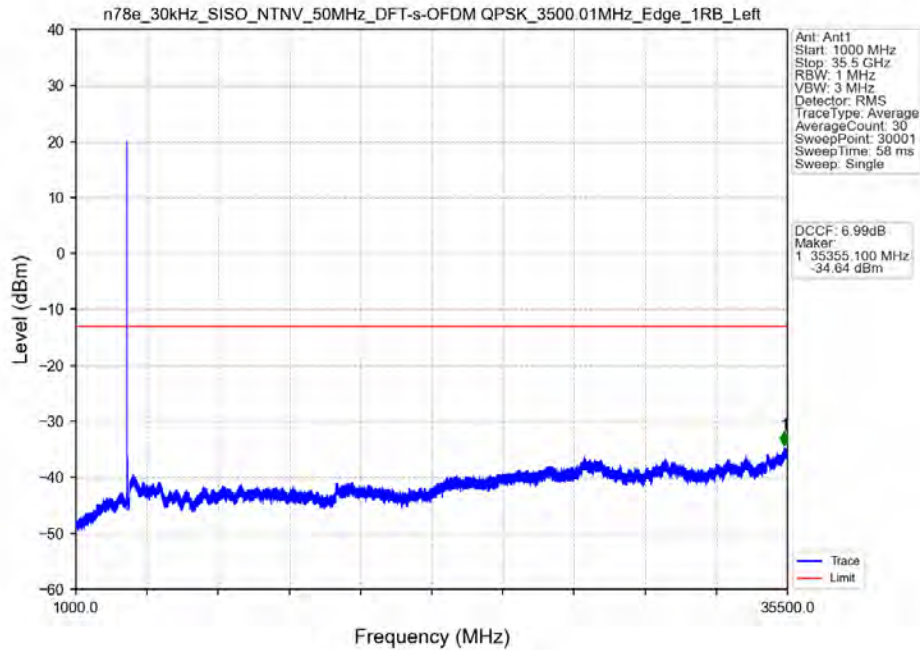
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n78e\_30kHz\_SISO\_NTNV\_50MHz\_DFT-s-OFDM QPSK\_3525MHz\_Edge\_1RB\_Right



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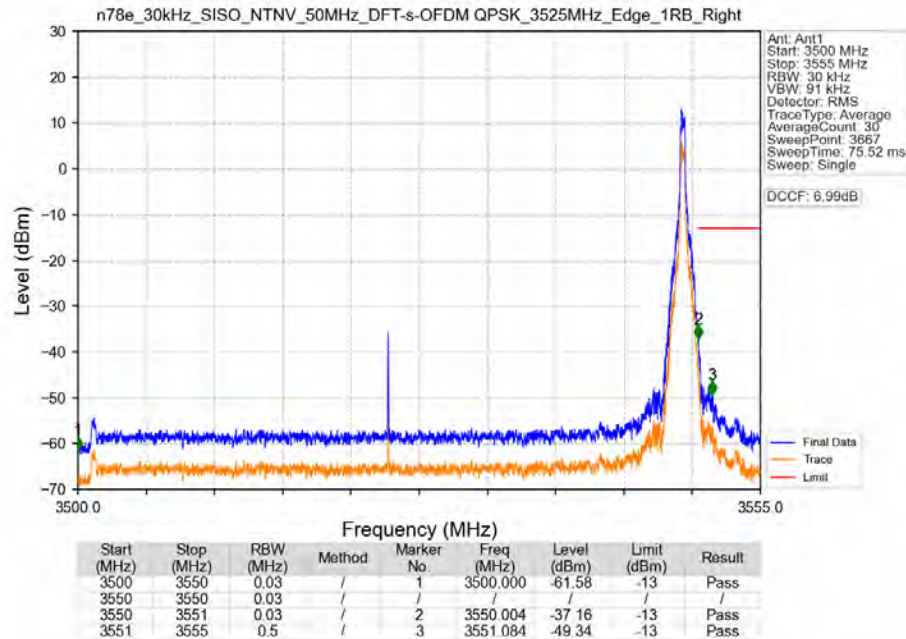


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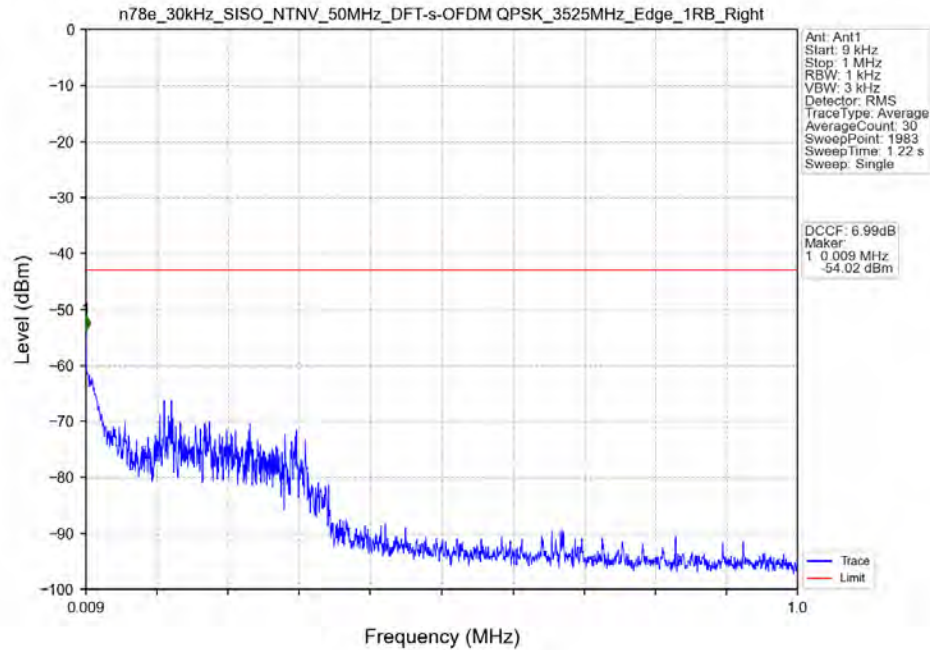
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n78e\_30kHz\_SISO\_NTNV\_50MHz\_DFT-s-OFDM QPSK\_3525MHz\_Edge\_1RB\_Right



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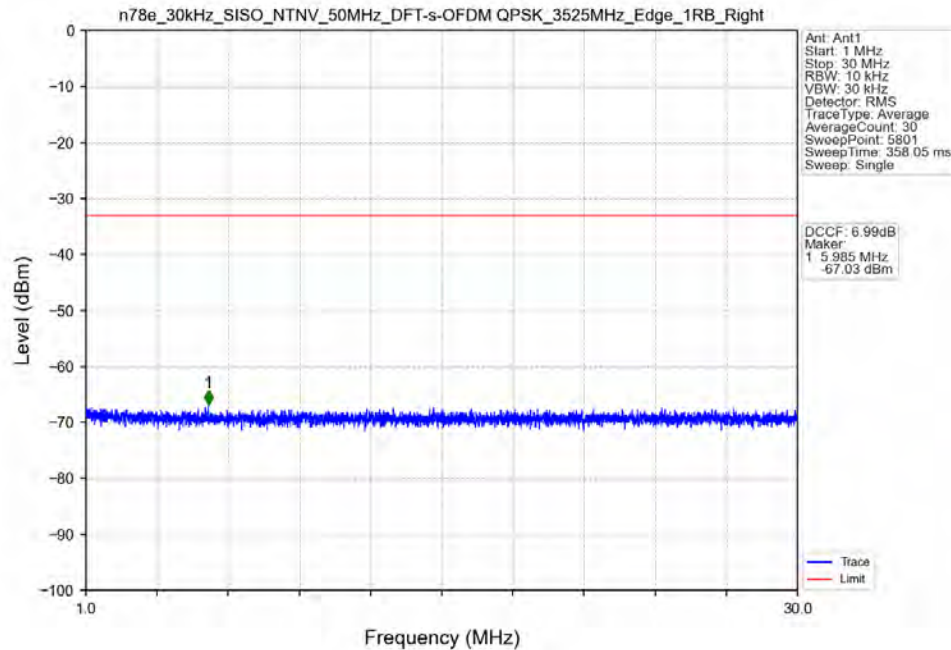


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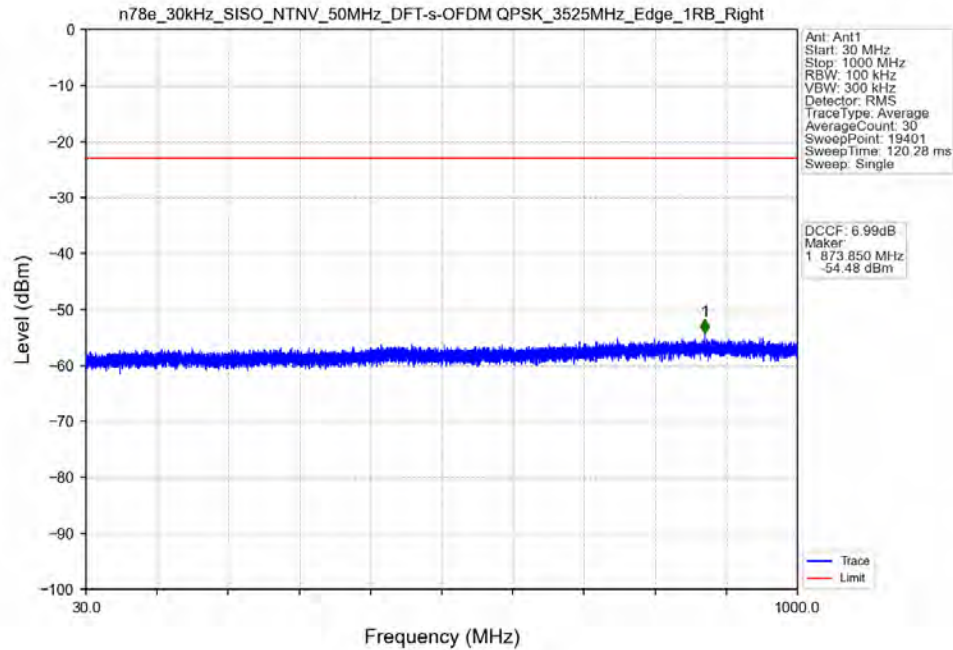
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n78e\_30kHz\_SISO\_NTNV\_50MHz\_DFT-s-OFDM QPSK\_3525MHz\_Edge\_1RB\_Right



n78e\_30kHz\_SISO\_NTNV\_50MHz\_DFT-s-OFDM QPSK\_3525MHz\_Edge\_1RB\_Right



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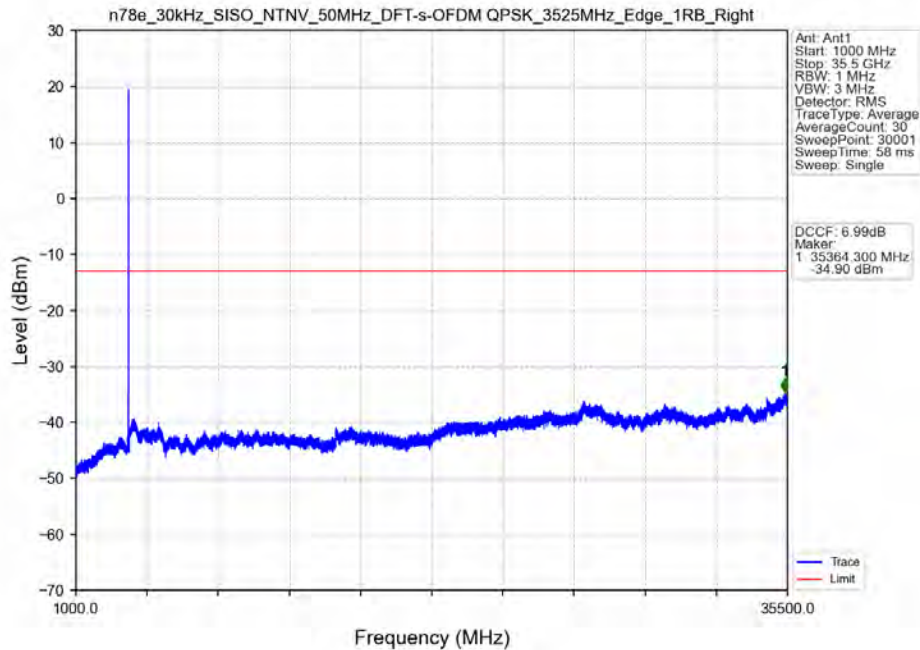


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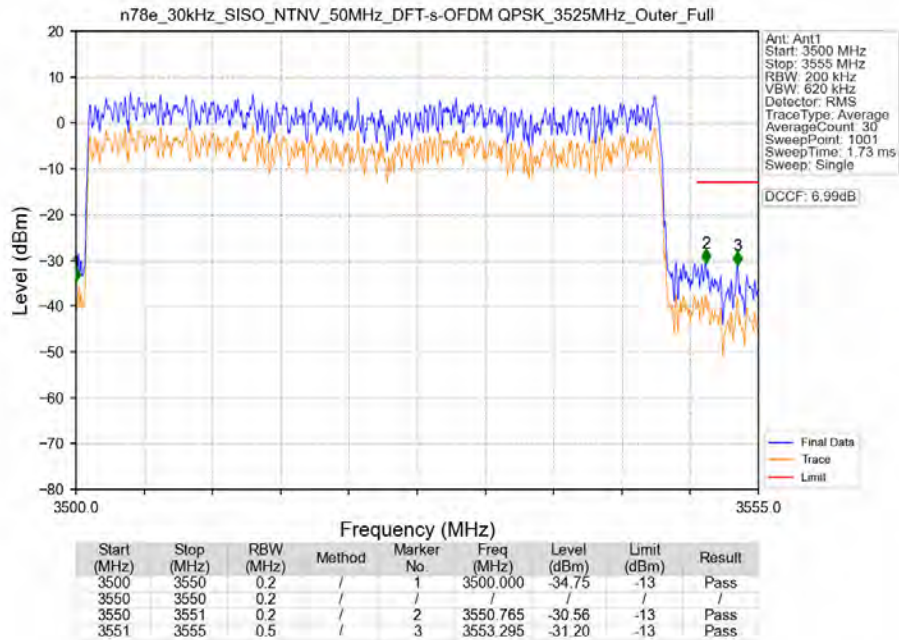
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n78e\_30kHz\_SISO\_NTNV\_50MHz\_DFT-s-OFDM\_QPSK\_3525MHz\_Outer\_Full



n78e\_30kHz\_SISO\_NTNV\_50MHz\_DFT-s-OFDM\_QPSK\_3525MHz\_Inner\_1RB\_Right



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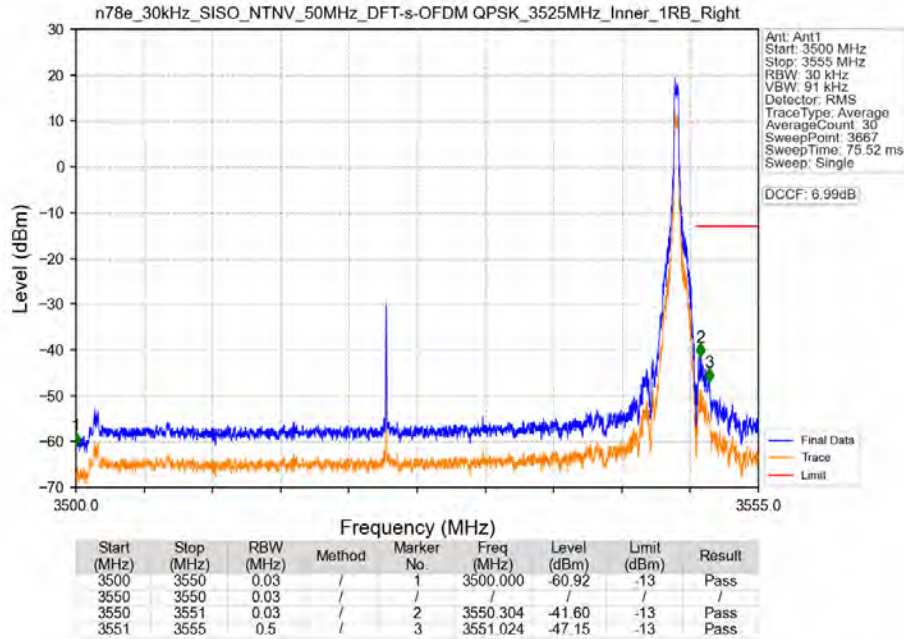


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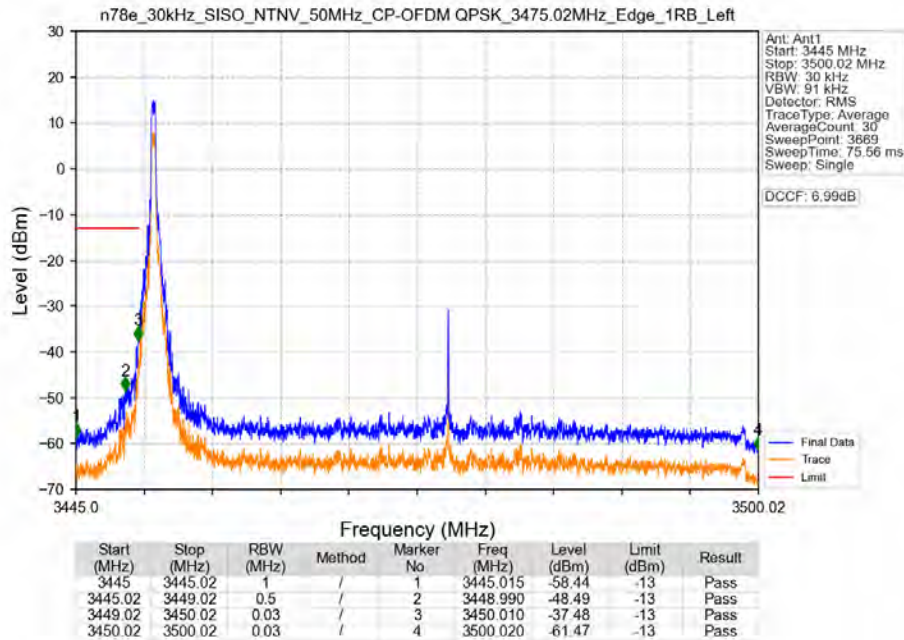
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n78e\_30kHz\_SISO\_NTNV\_50MHz\_CP-OFDM\_QPSK\_3475.02MHz\_Edge\_1RB\_Left



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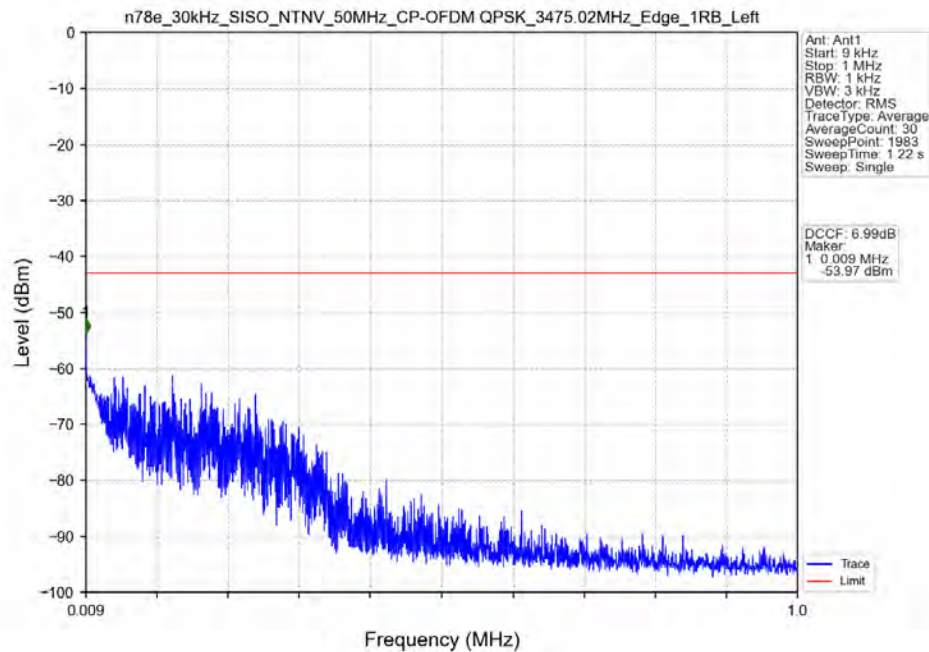


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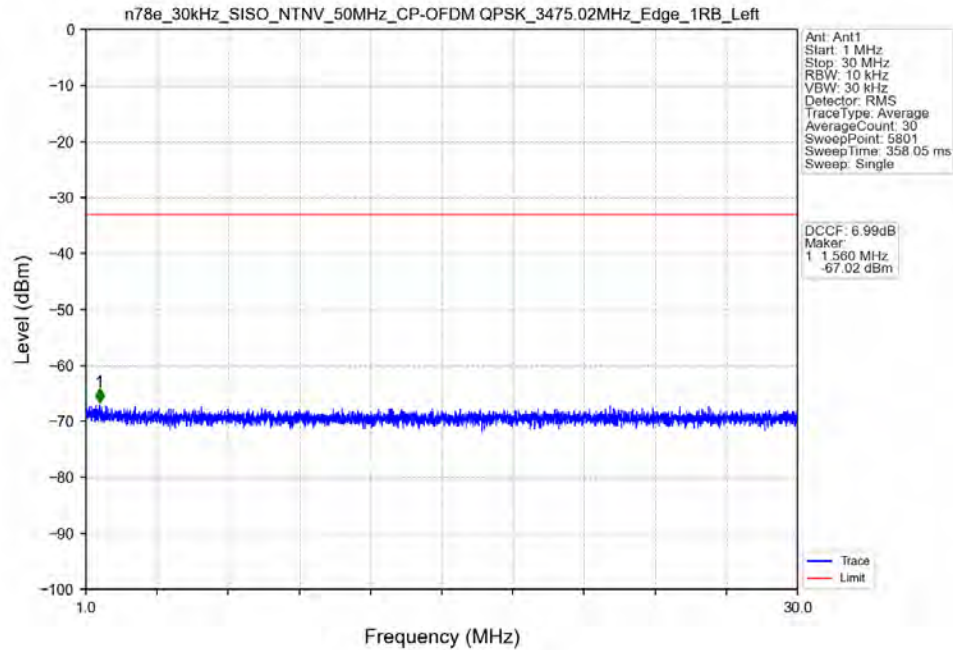
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n78e\_30kHz\_SISO\_NTNV\_50MHz\_CP-OFDM QPSK\_3475.02MHz\_Edge\_1RB\_Left



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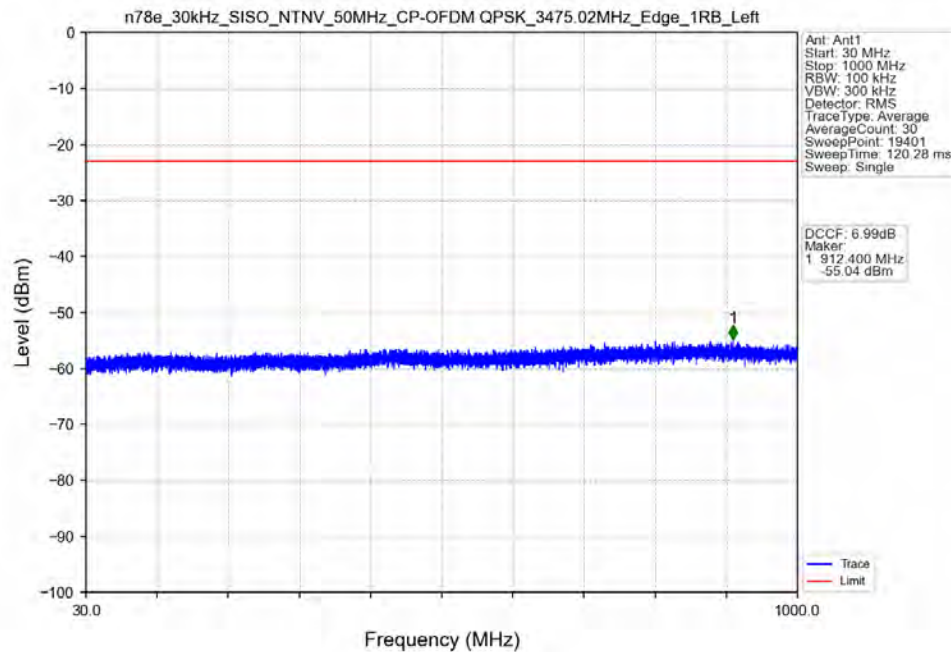


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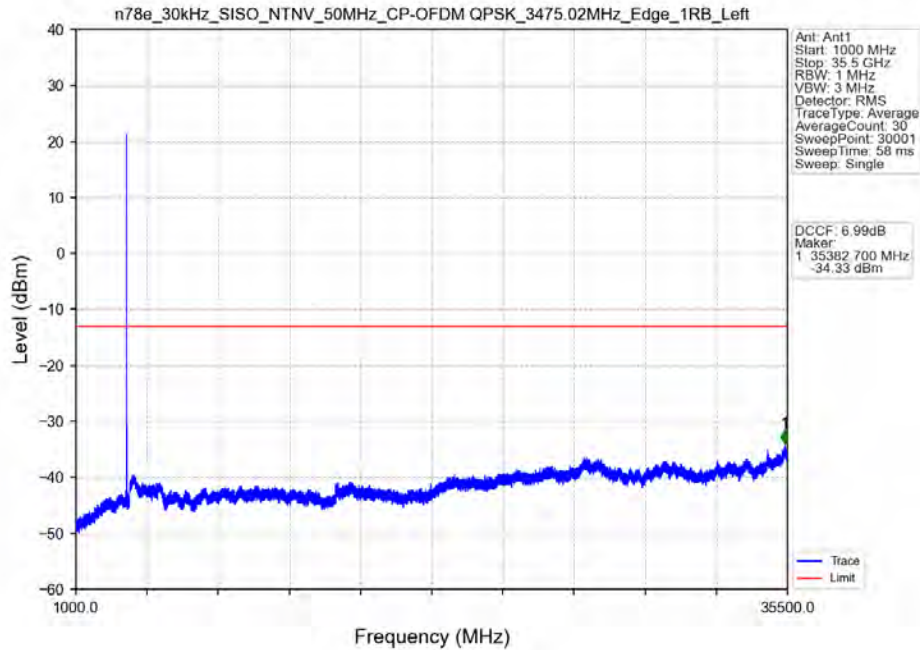
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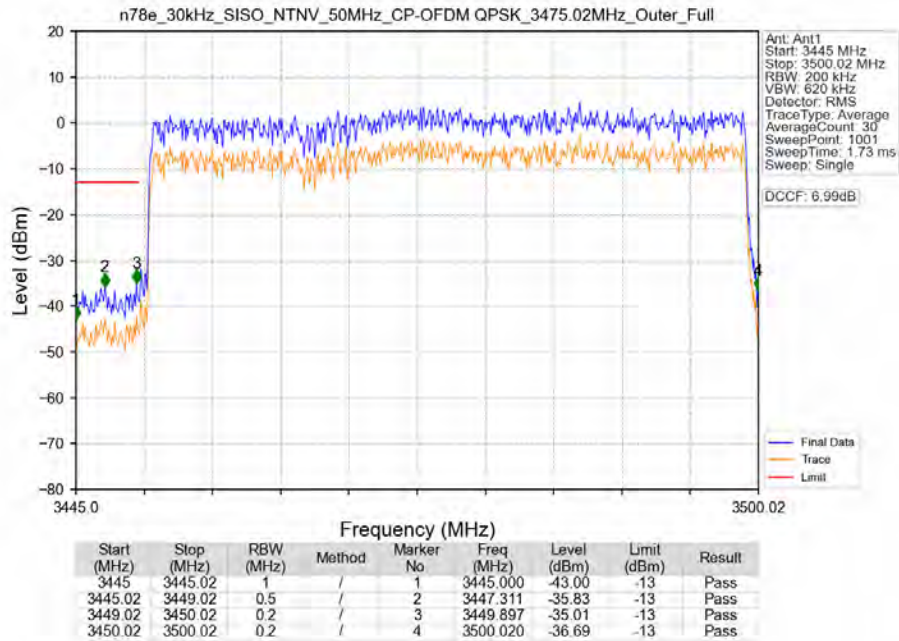


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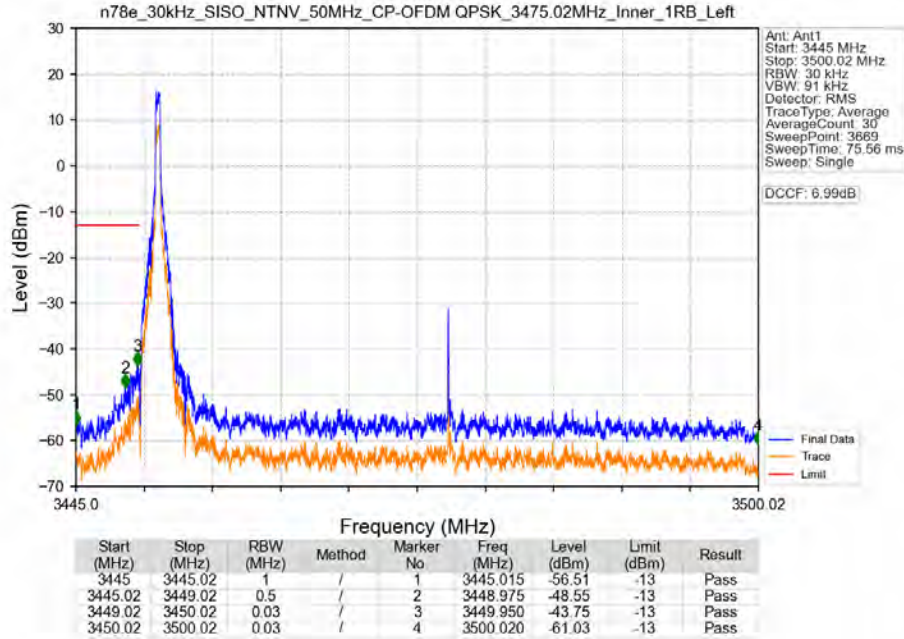
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n78e\_30kHz\_SISO\_NTNV\_50MHz\_CP-OFDM QPSK\_3500.01MHz\_Edge\_1RB\_Left



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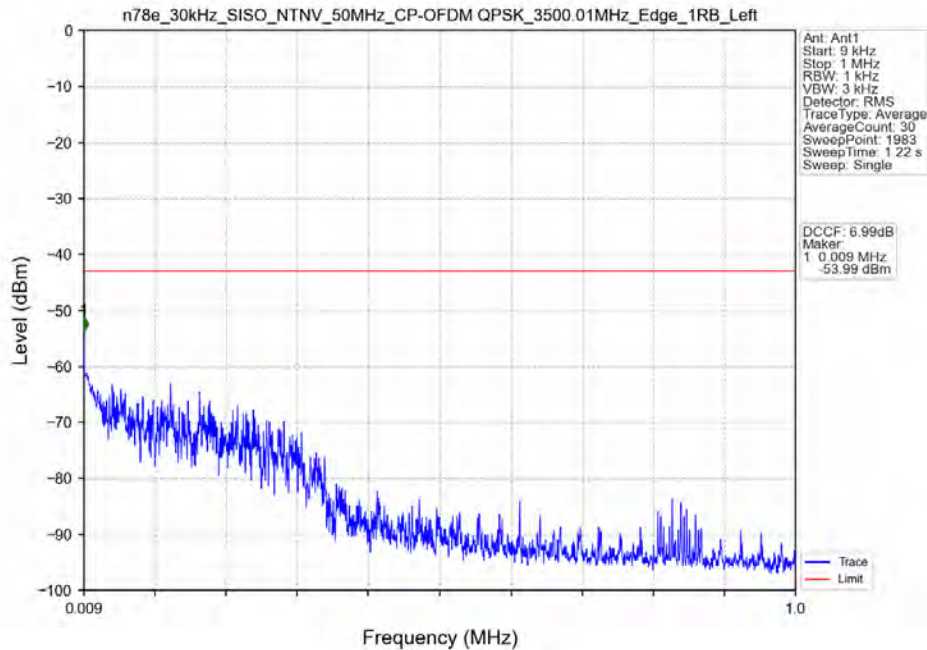


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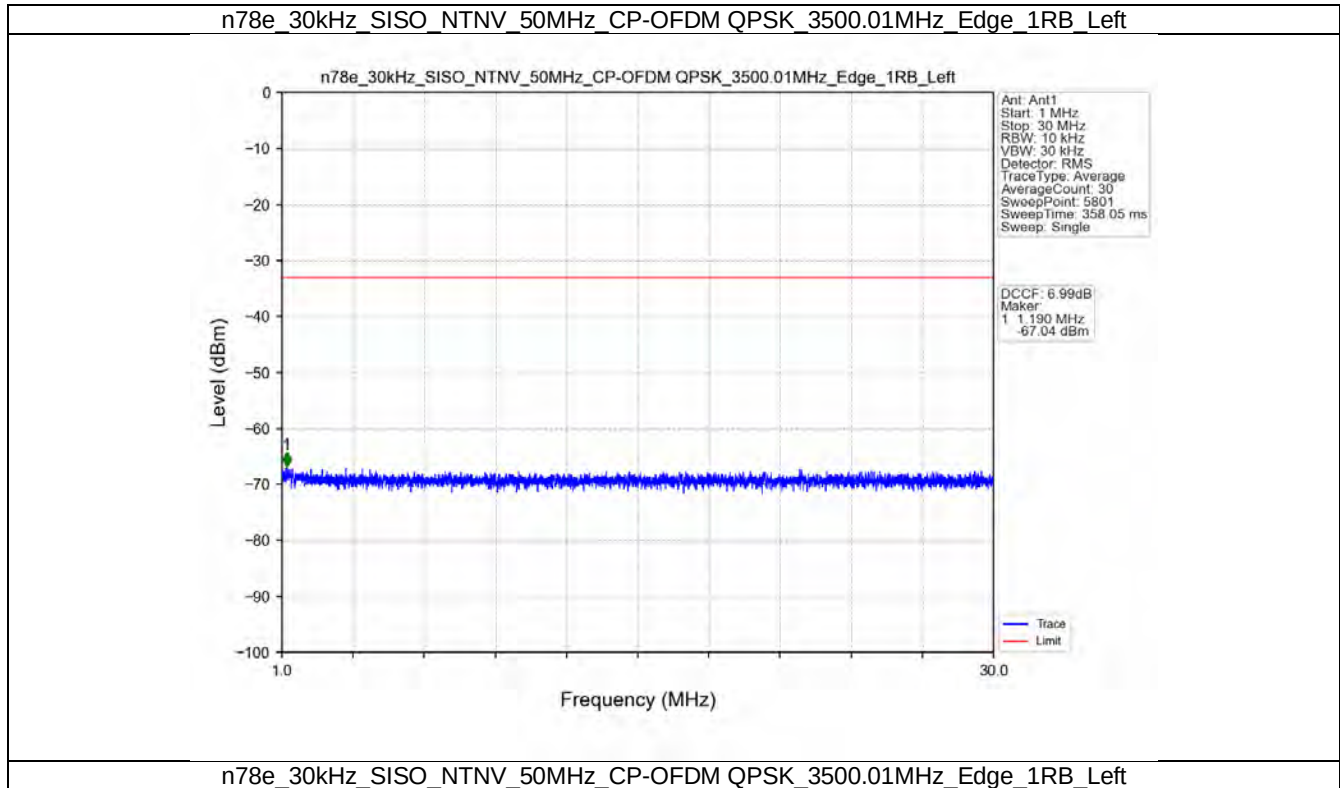


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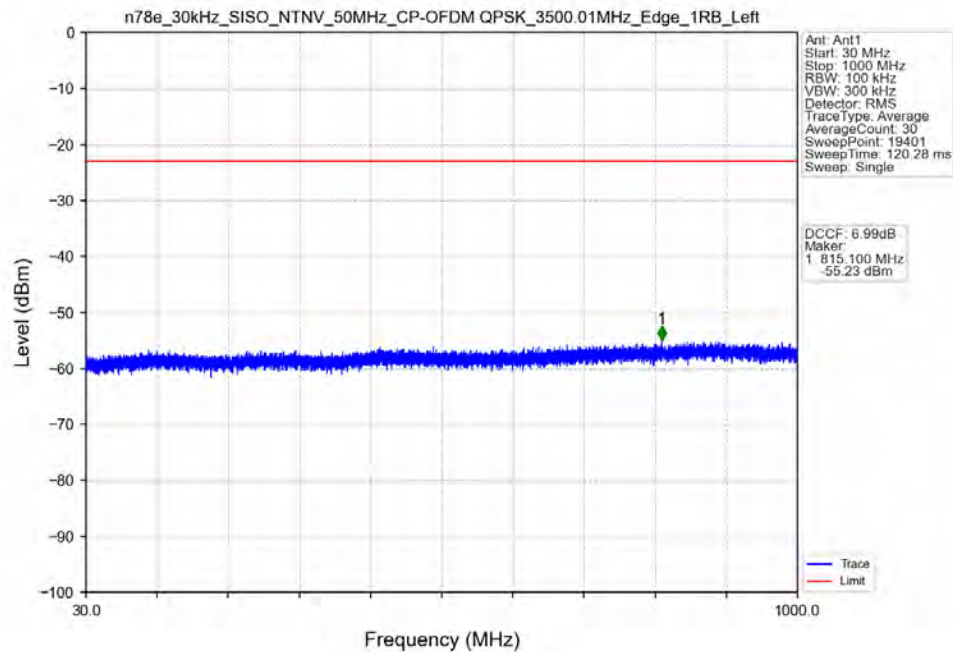


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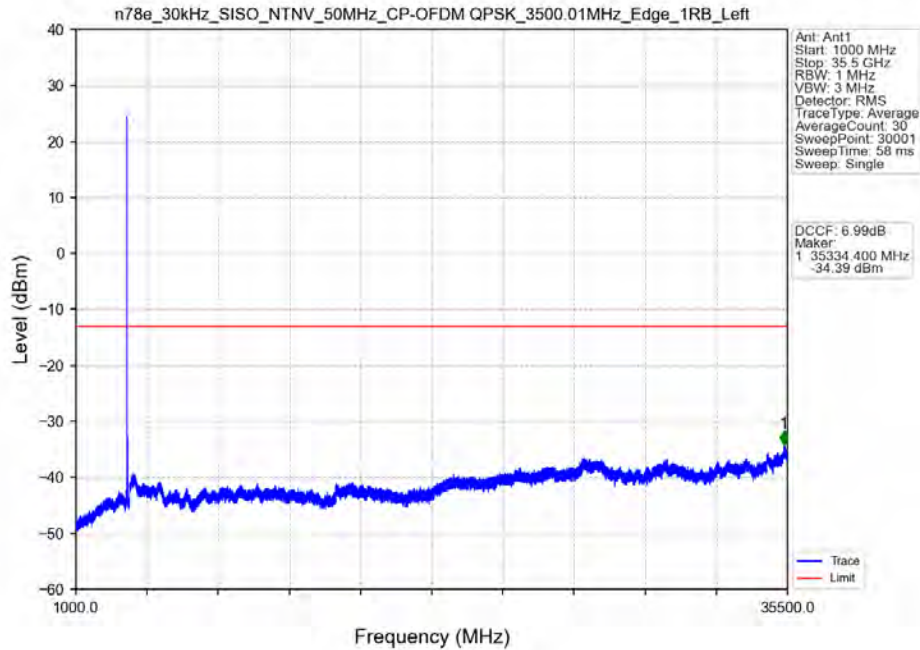
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n78e\_30kHz\_SISO\_NTNV\_50MHz\_CP-OFDM QPSK\_3500.01MHz\_Edge\_1RB\_Left



n78e\_30kHz\_SISO\_NTNV\_50MHz\_CP-OFDM QPSK\_3525MHz\_Edge\_1RB\_Right



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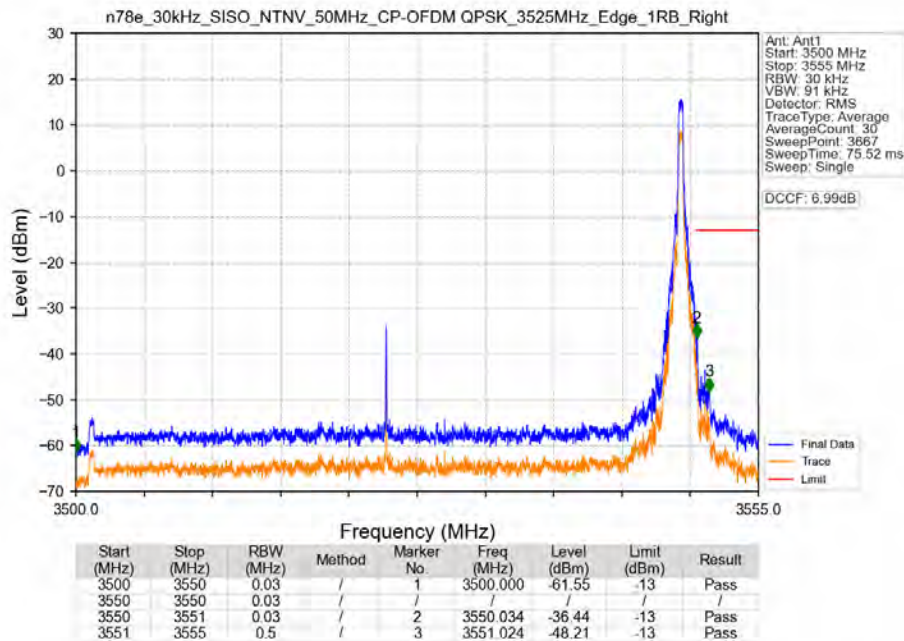


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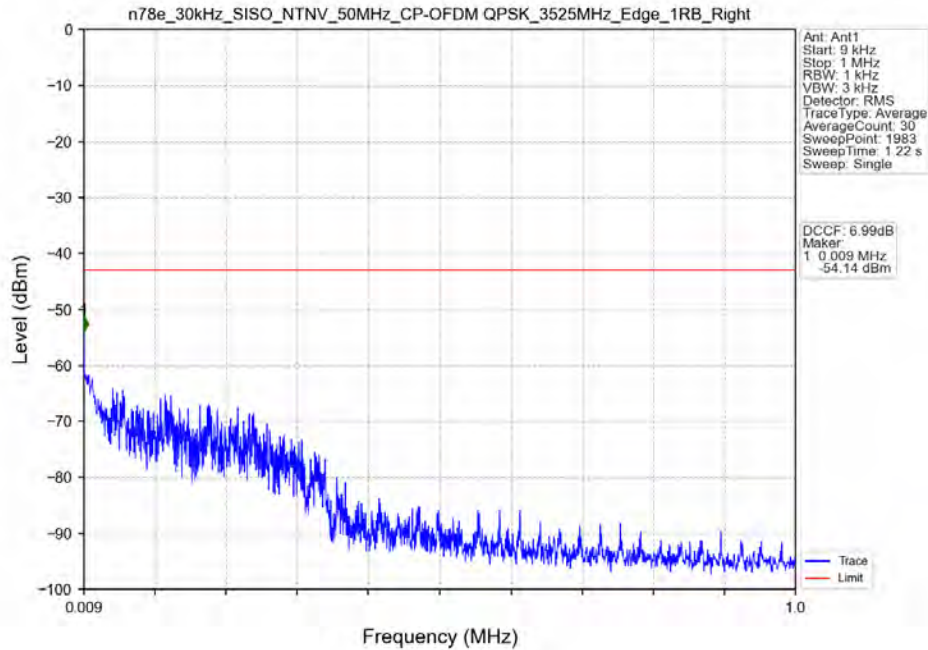
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n78e\_30kHz\_SISO\_NTNV\_50MHz\_CP-OFDM\_QPSK\_3525MHz\_Edge\_1RB\_Right



n78e\_30kHz\_SISO\_NTNV\_50MHz\_CP-OFDM\_QPSK\_3525MHz\_Edge\_1RB\_Right



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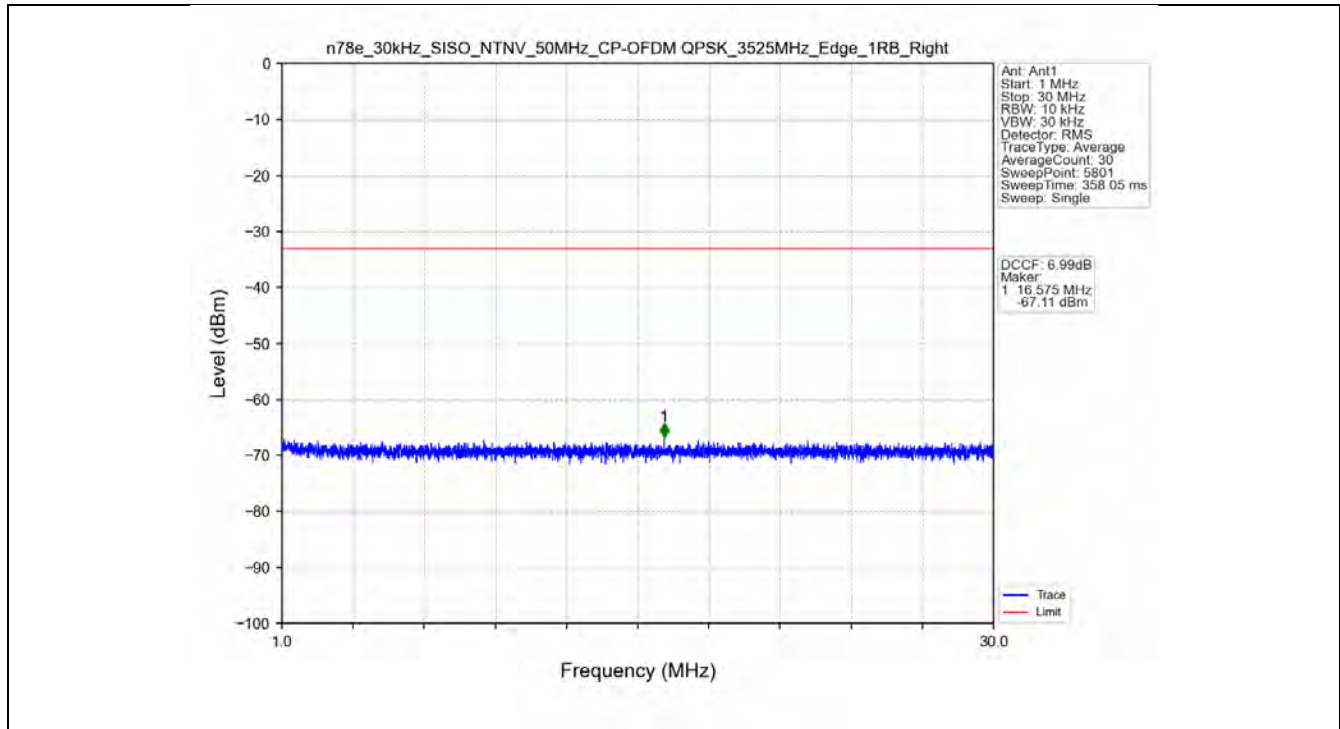


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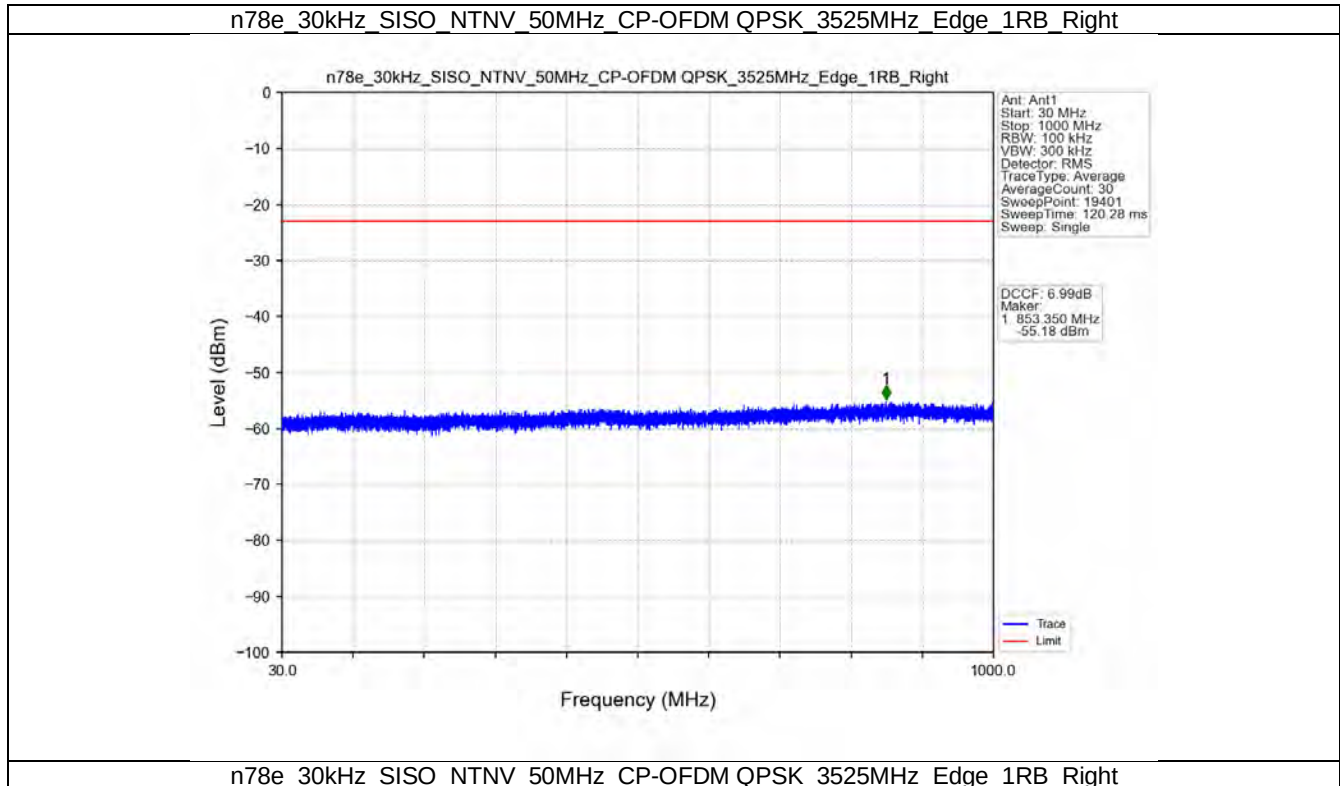


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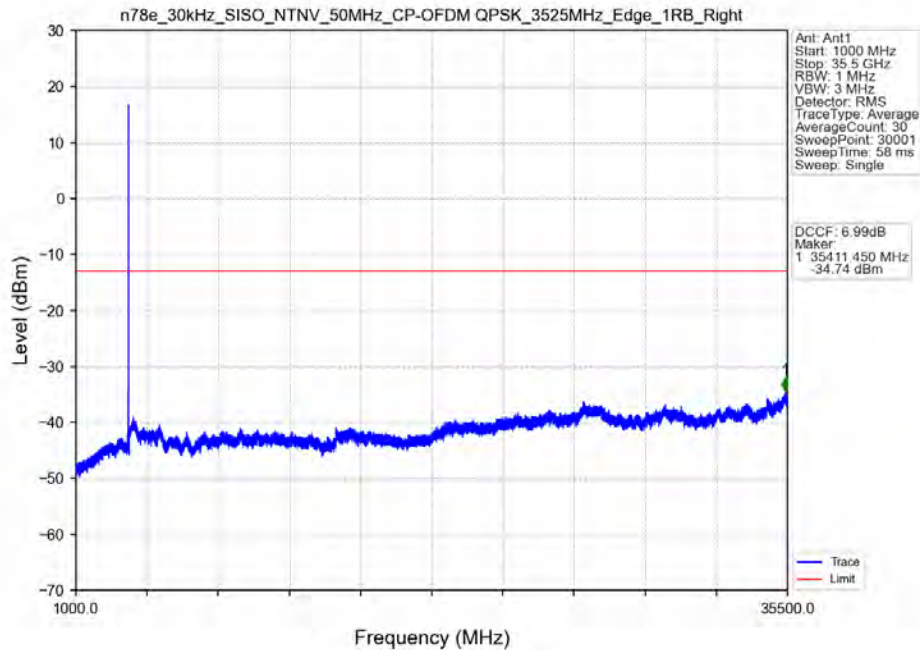


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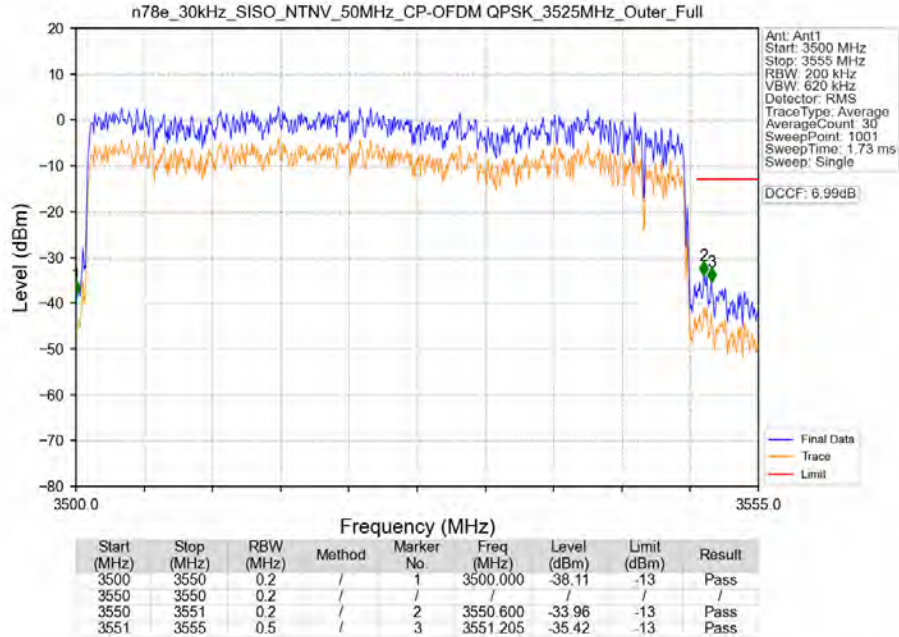
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n78e\_30kHz\_SISO\_NTNV\_50MHz\_CP-OFDM\_QPSK\_3525MHz\_Outer\_Full



n78e\_30kHz\_SISO\_NTNV\_50MHz\_CP-OFDM\_QPSK\_3525MHz\_Inner\_1RB\_Right



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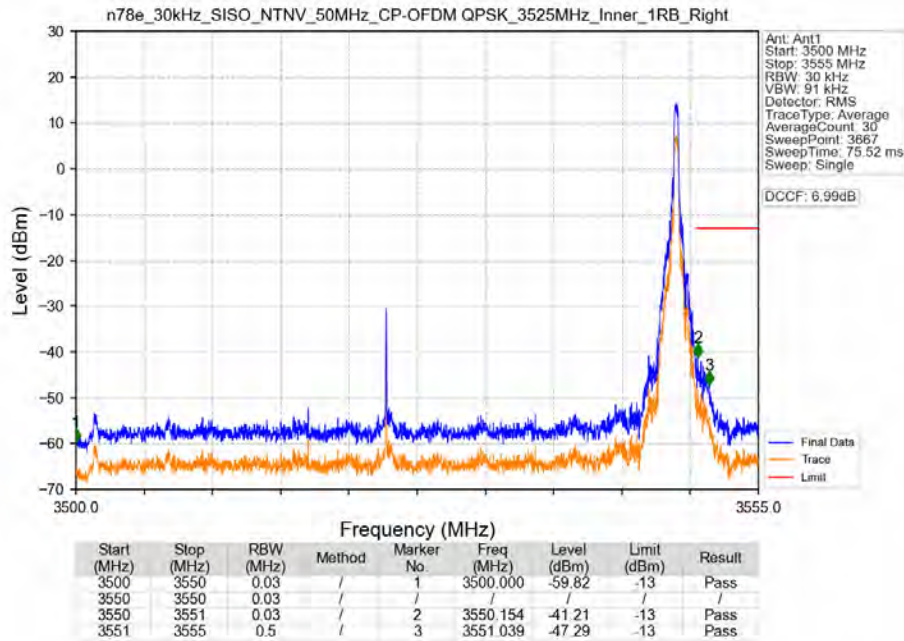


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## 5.5 30k\_SISO\_60MHz\_NTNV

### 5.5.1 Test Result

| 5G NR n78e SCS=30kHz SISO 60MHz NTN |                 |                 |                     |                     |     |       |         |      |
|-------------------------------------|-----------------|-----------------|---------------------|---------------------|-----|-------|---------|------|
| Modulation                          | Frequency (MHz) | RB Allocation   | Spurious Emission   |                     |     |       | Verdict |      |
|                                     |                 |                 | Ant1                | Ant4                | Sum | Limit |         |      |
| DFT-s-OFDM PI/2 BPSK                | 3480            | Edge_1RB_Left   | Refer To Test Graph |                     |     |       | Pass    |      |
|                                     |                 | Outer_Full      | Refer To Test Graph |                     |     |       | Pass    |      |
|                                     |                 | Inner_1RB_Left  | Refer To Test Graph |                     |     |       | Pass    |      |
|                                     | 3500.01         | Edge_1RB_Left   | Refer To Test Graph |                     |     |       | Pass    |      |
|                                     |                 | 3519.99         | Edge_1RB_Right      | Refer To Test Graph |     |       |         | Pass |
|                                     |                 |                 | Outer_Full          | Refer To Test Graph |     |       |         | Pass |
|                                     |                 |                 | Inner_1RB_Right     | Refer To Test Graph |     |       |         | Pass |
| DFT-s-OFDM QPSK                     | 3480            | Edge_1RB_Left   | Refer To Test Graph |                     |     |       | Pass    |      |
|                                     |                 | Outer_Full      | Refer To Test Graph |                     |     |       | Pass    |      |
|                                     |                 | Inner_1RB_Left  | Refer To Test Graph |                     |     |       | Pass    |      |
|                                     | 3500.01         | Edge_1RB_Left   | Refer To Test Graph |                     |     |       | Pass    |      |
|                                     |                 | 3519.99         | Edge_1RB_Right      | Refer To Test Graph |     |       |         | Pass |
|                                     |                 |                 | Outer_Full          | Refer To Test Graph |     |       |         | Pass |
|                                     |                 |                 | Inner_1RB_Right     | Refer To Test Graph |     |       |         | Pass |
| CP-OFDM QPSK                        | 3480            | Edge_1RB_Left   | Refer To Test Graph |                     |     |       | Pass    |      |
|                                     |                 | Outer_Full      | Refer To Test Graph |                     |     |       | Pass    |      |
|                                     |                 | Inner_1RB_Left  | Refer To Test Graph |                     |     |       | Pass    |      |
|                                     | 3500.01         | Edge_1RB_Left   | Refer To Test Graph |                     |     |       | Pass    |      |
|                                     |                 | 3519.99         | Edge_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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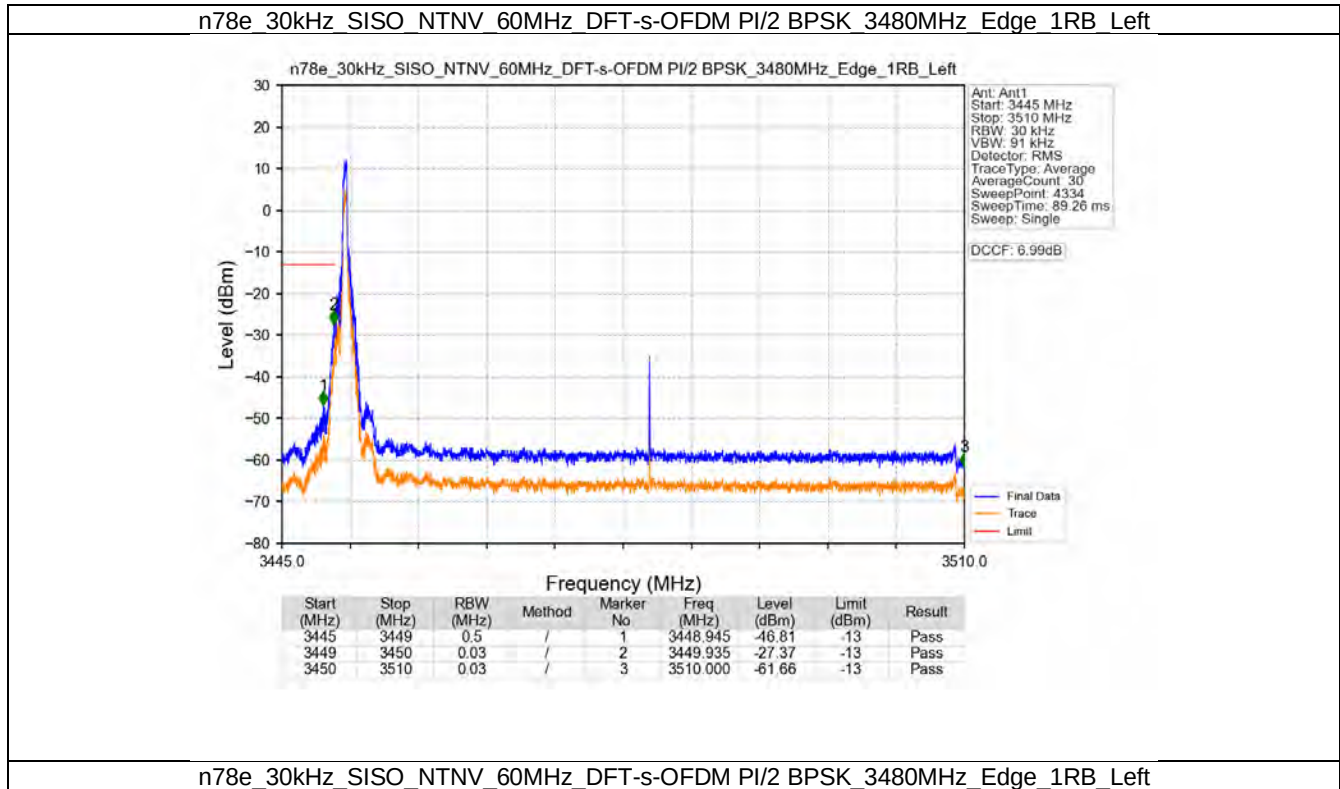
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## 5.5.2 Test Graph



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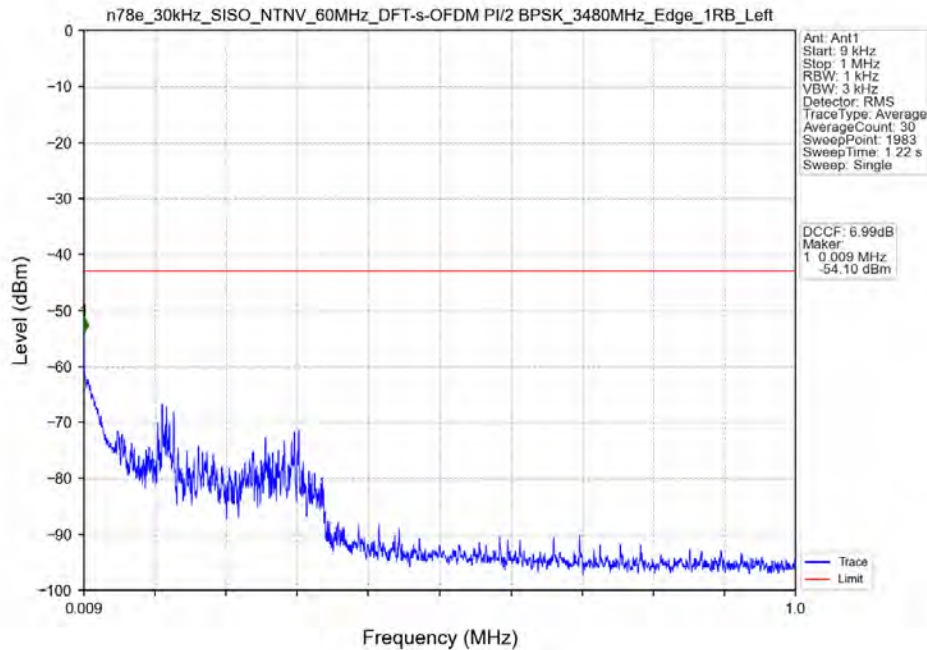


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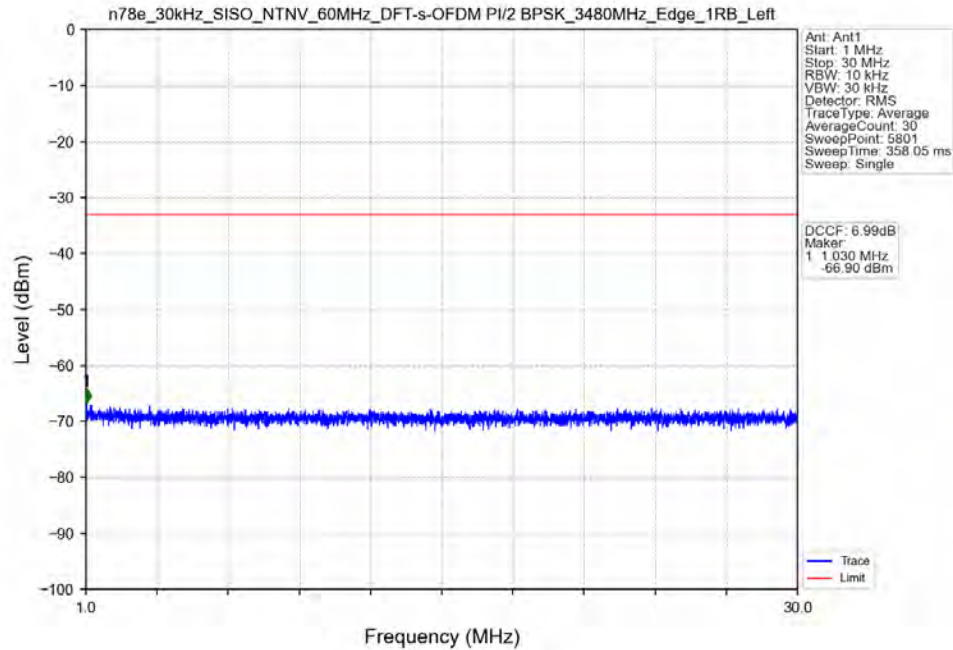
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n78e\_30kHz\_SISO\_NTNV\_60MHz\_DFT-s-OFDM PI/2 BPSK\_3480MHz\_Edge\_1RB\_Left



n78e\_30kHz\_SISO\_NTNV\_60MHz\_DFT-s-OFDM PI/2 BPSK\_3480MHz\_Edge\_1RB\_Left



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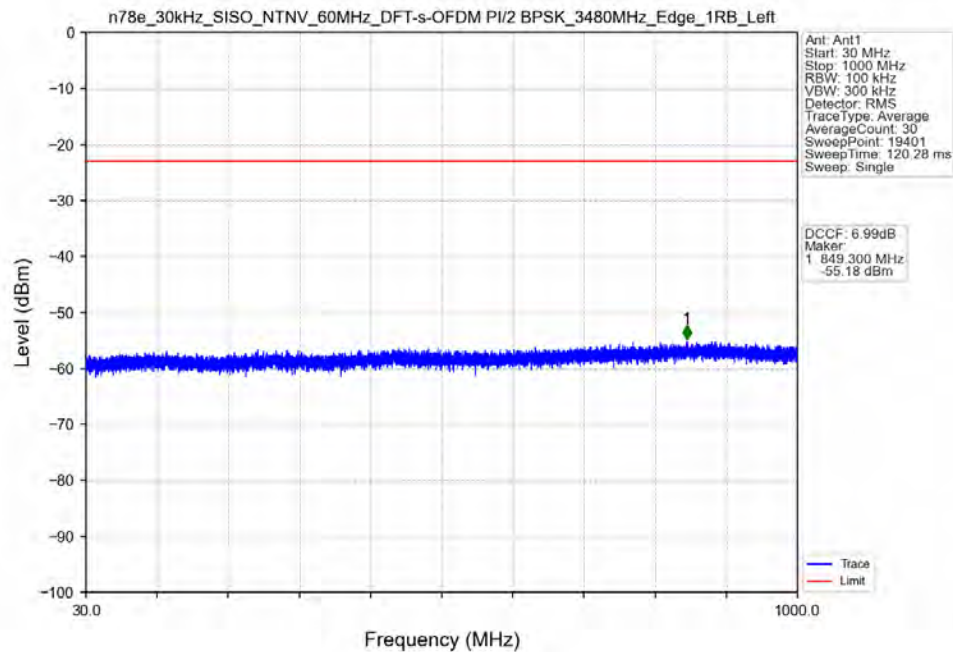


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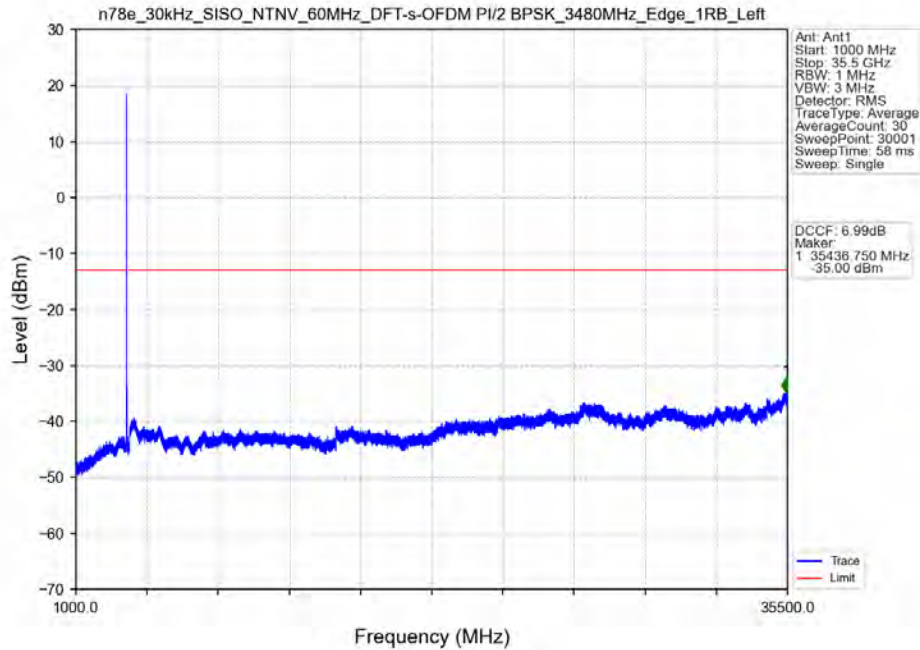
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n78e\_30kHz\_SISO\_NTNV\_60MHz\_DFT-s-OFDM PI/2 BPSK\_3480MHz\_Edge\_1RB\_Left



n78e\_30kHz\_SISO\_NTNV\_60MHz\_DFT-s-OFDM PI/2 BPSK\_3480MHz\_Outer\_Full



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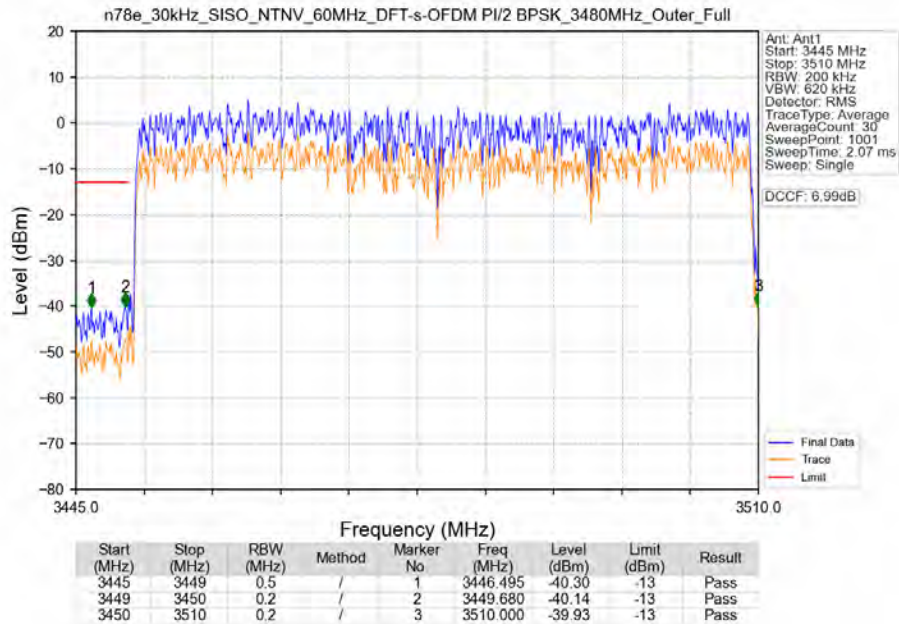


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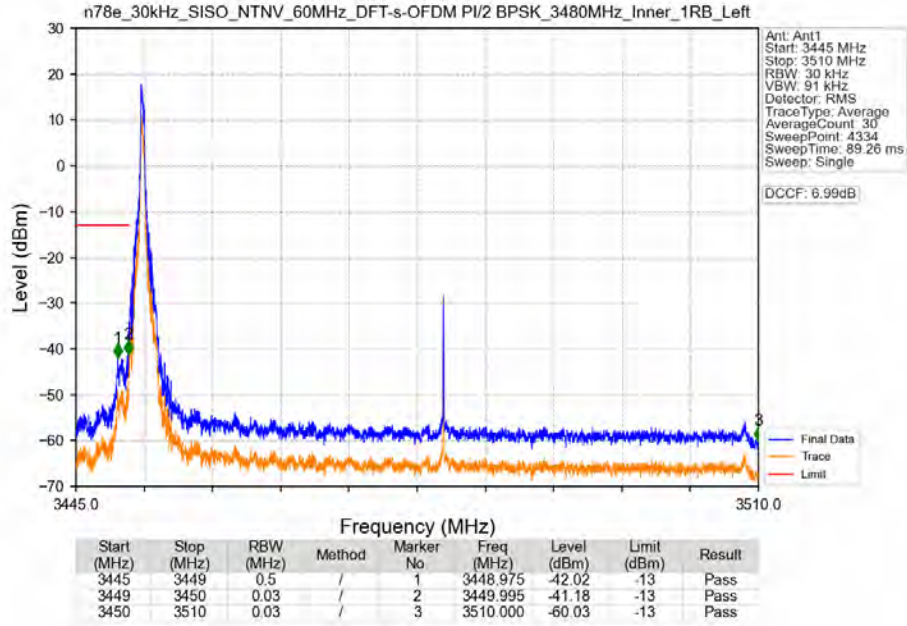
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n78e\_30kHz\_SISO\_NTNV\_60MHz\_DFT-s-OFDM PI/2 BPSK\_3500.01MHz\_Edge\_1RB\_Left



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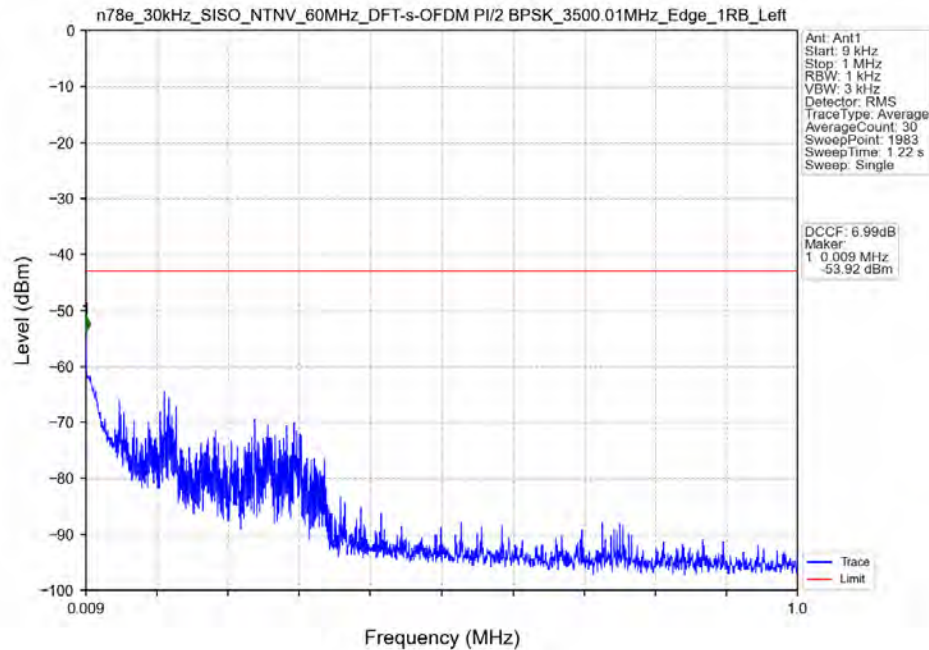


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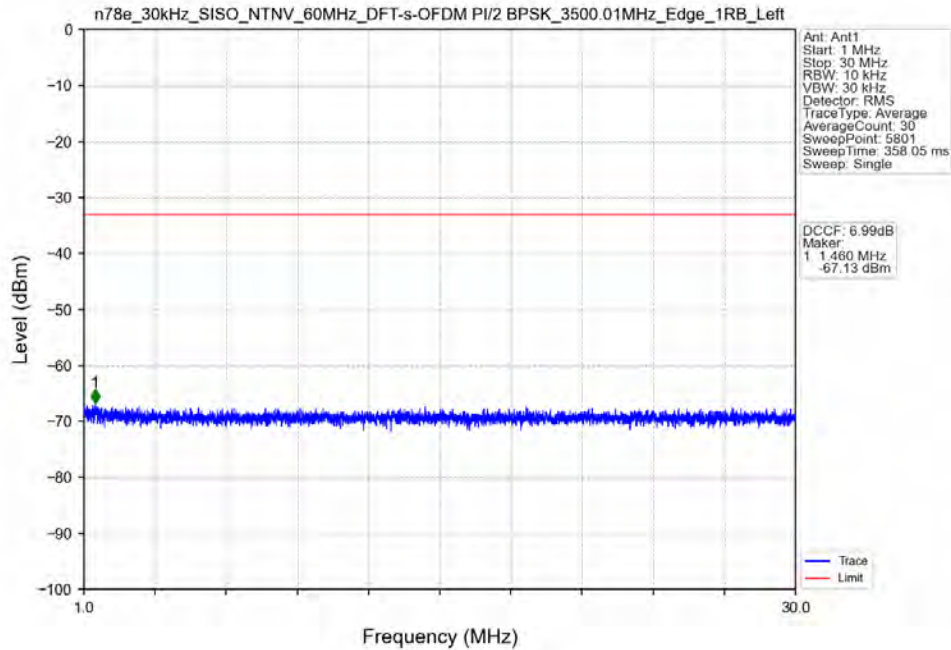
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n78e\_30kHz\_SISO\_NTNV\_60MHz\_DFT-s-OFDM PI/2 BPSK\_3500.01MHz\_Edge\_1RB\_Left



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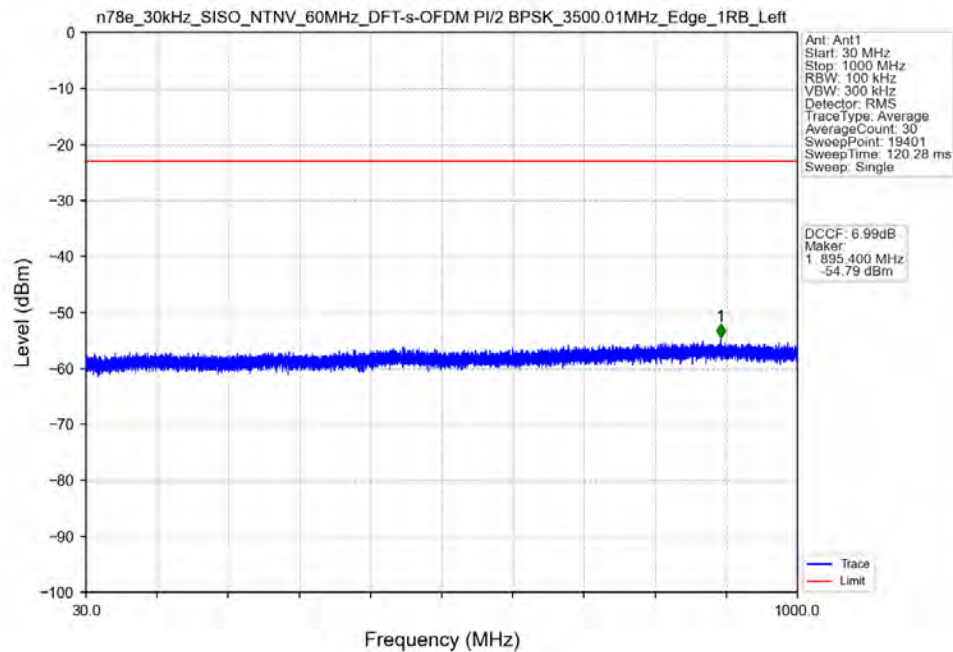


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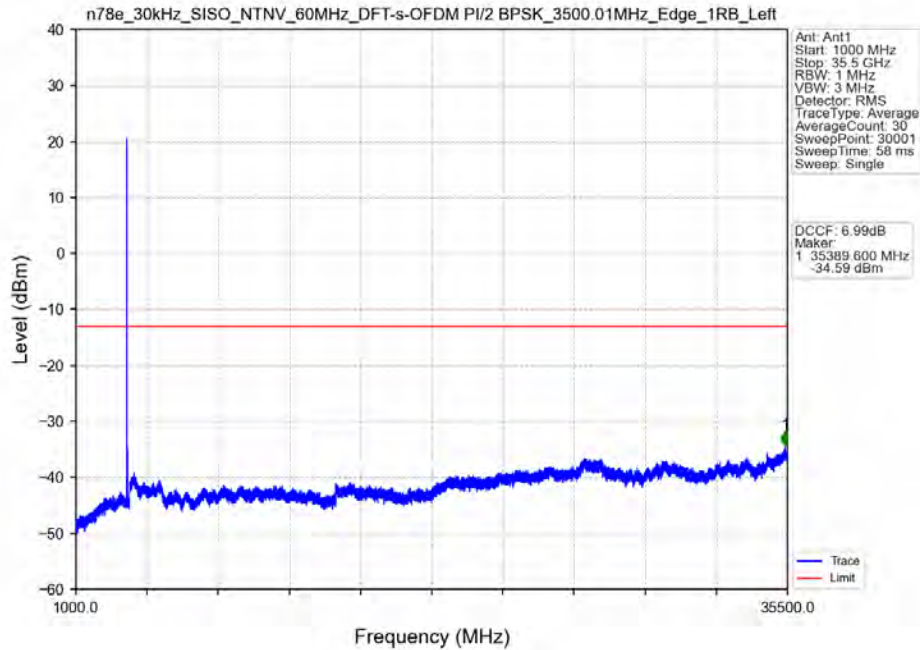
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n78e\_30kHz\_SISO\_NTNV\_60MHz\_DFT-s-OFDM PI/2 BPSK\_3519.99MHz\_Edge\_1RB\_Right



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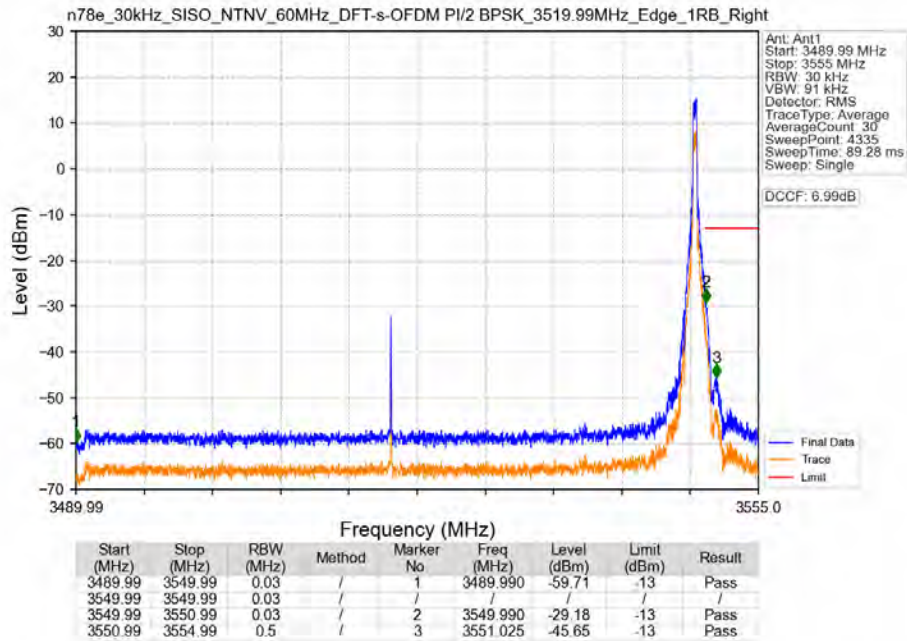


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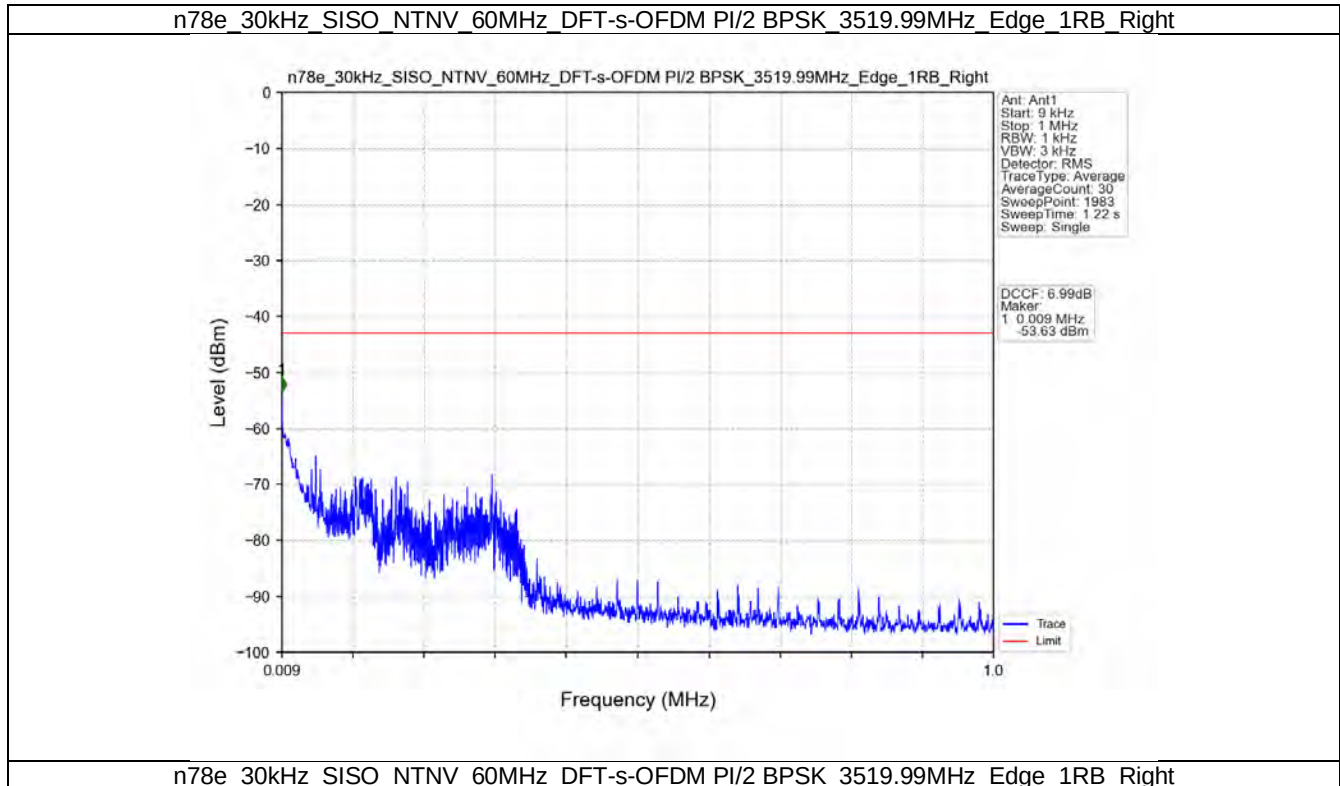


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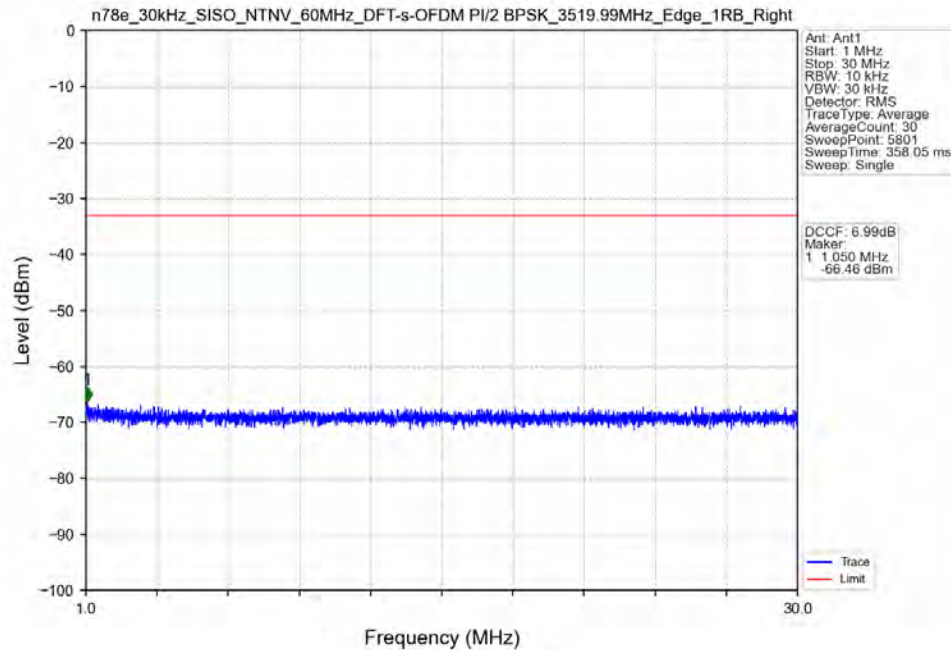


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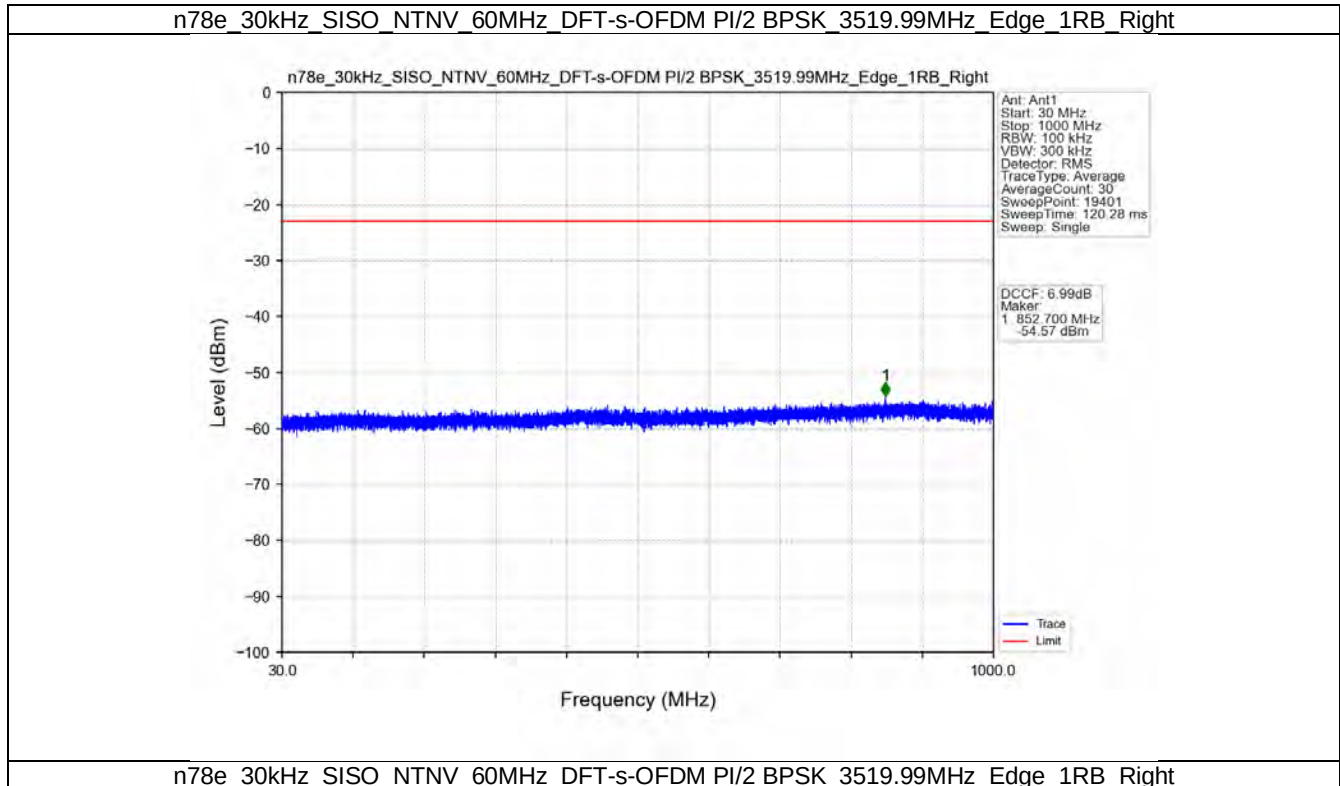


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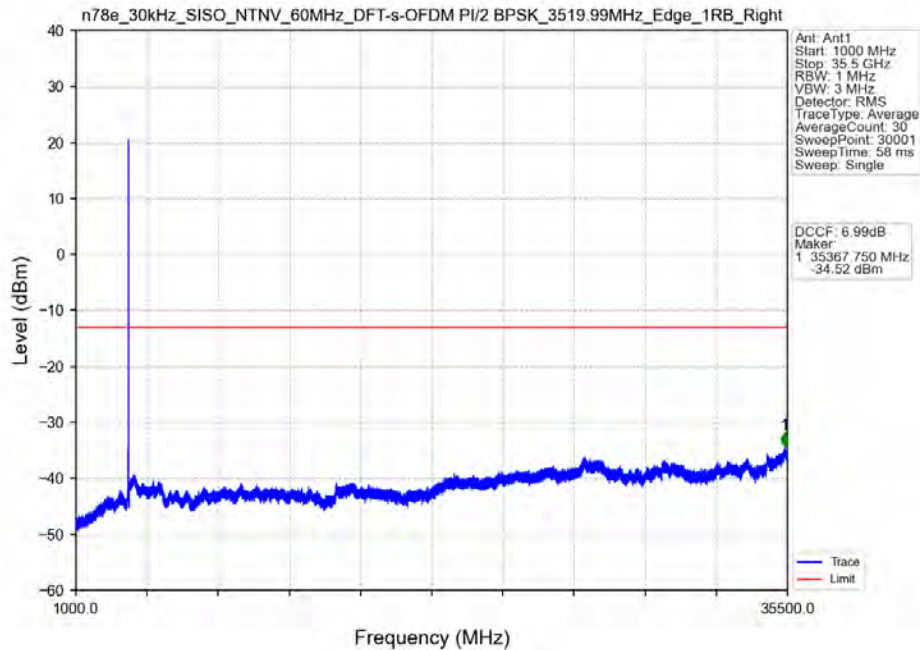


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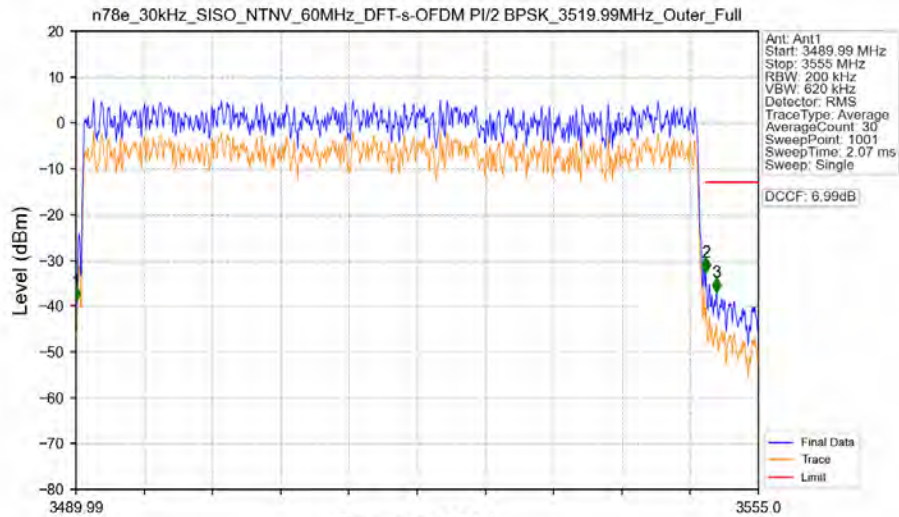
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n78e\_30kHz\_SISO\_NTNV\_60MHz\_DFT-s-OFDM PI/2 BPSK\_3519.99MHz\_Outer\_Full



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 3489.99     | 3549.99    | 0.2       | /      | 1         | 3489.990   | -38.88      | -13         | Pass   |
| 3549.99     | 3549.99    | 0.2       | /      | /         | /          | /           | /           | /      |
| 3549.99     | 3550.99    | 0.2       | /      | 2         | 3549.994   | -32.61      | -13         | Pass   |
| 3550.99     | 3554.99    | 0.5       | /      | 3         | 3551.034   | -36.94      | -13         | Pass   |

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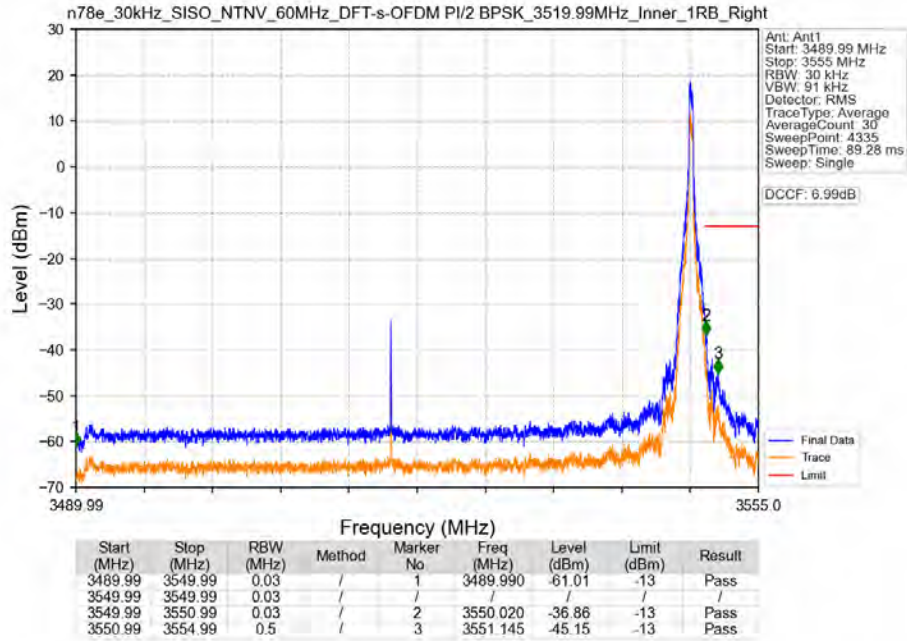


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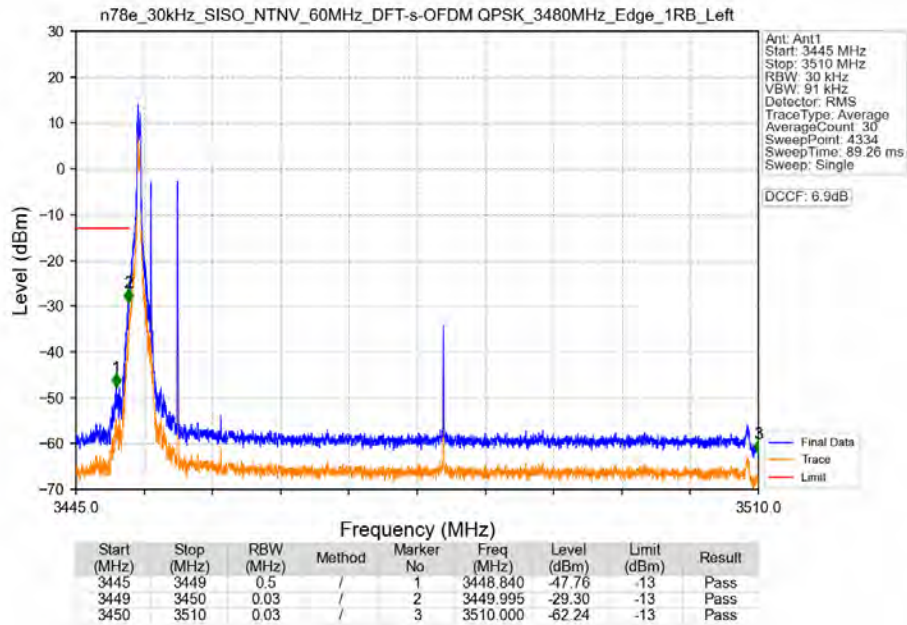
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n78e\_30kHz\_SISO\_NTNV\_60MHz\_DFT-s-OFDM\_QPSK\_3480MHz\_Edge\_1RB\_Left



n78e\_30kHz\_SISO\_NTNV\_60MHz\_DFT-s-OFDM\_QPSK\_3480MHz\_Edge\_1RB\_Left



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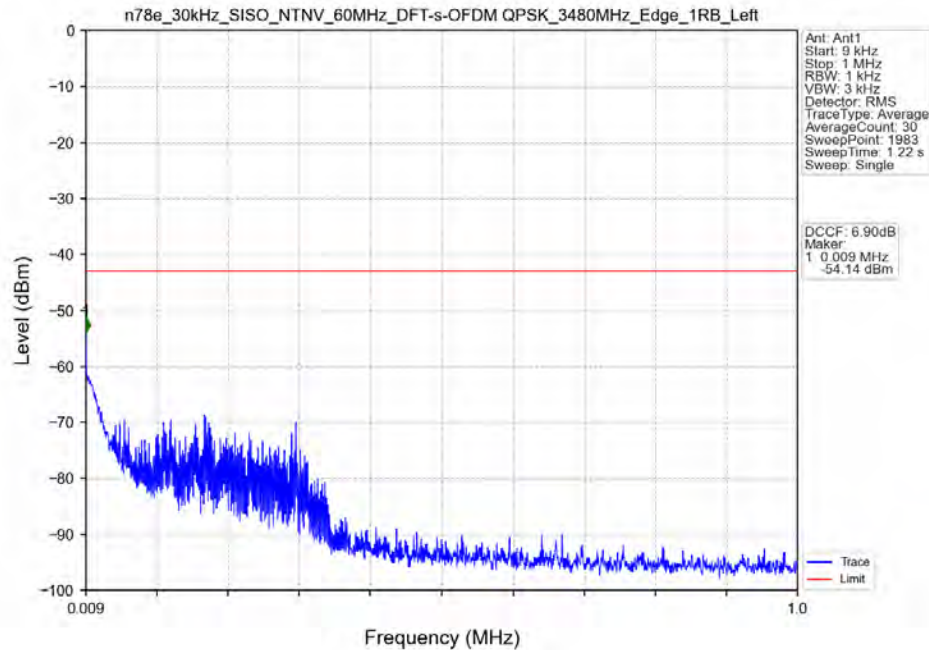


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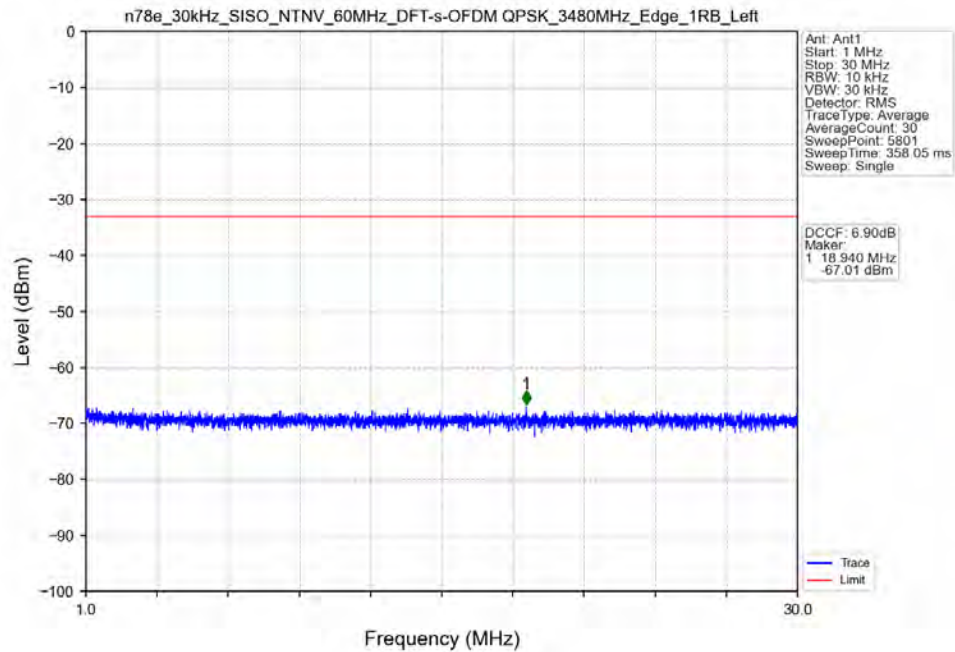
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n78e\_30kHz\_SISO\_NTNV\_60MHz\_DFT-s-OFDM QPSK\_3480MHz\_Edge\_1RB\_Left



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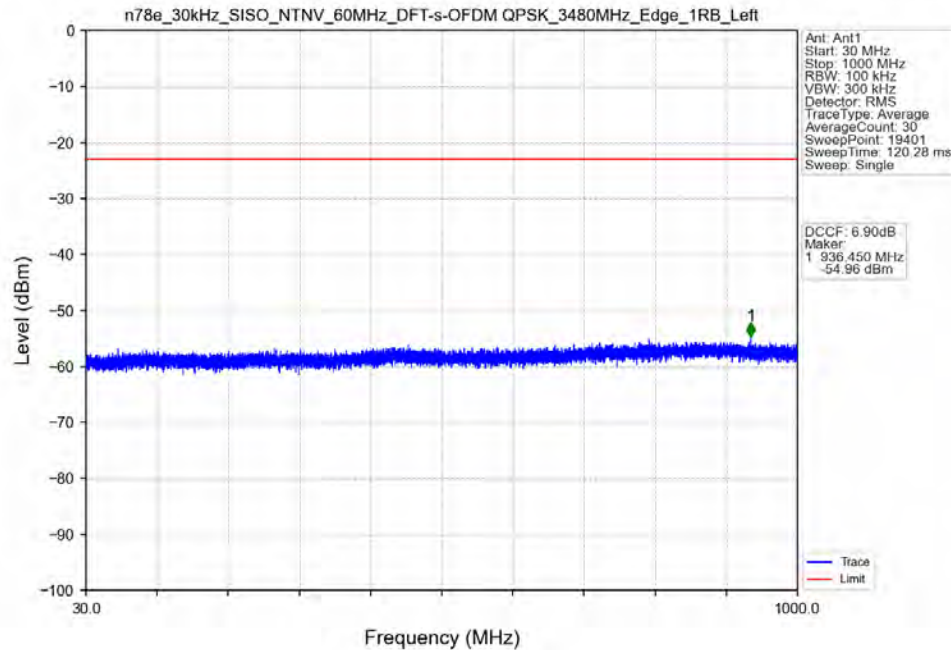


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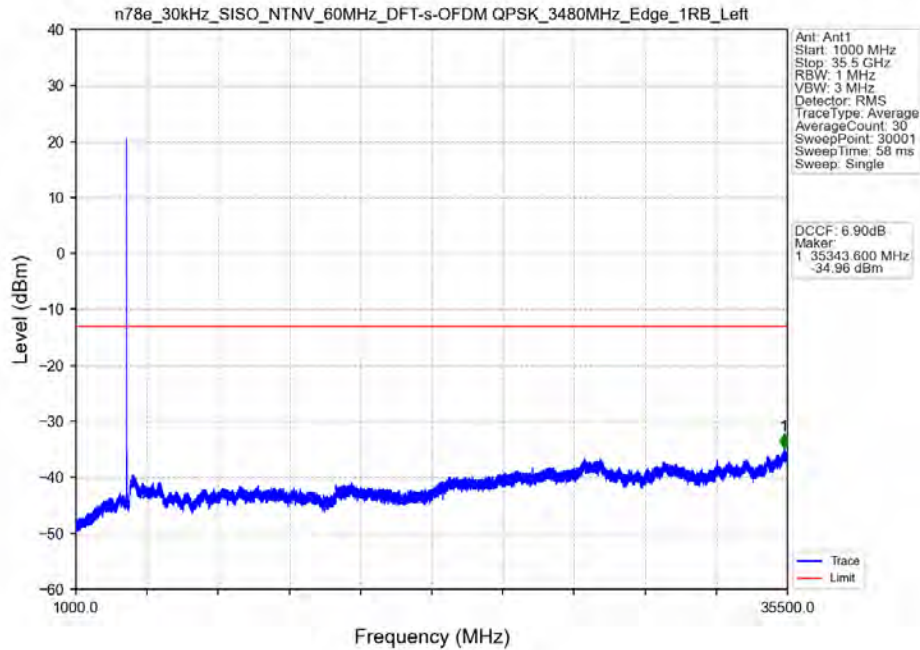
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n78e\_30kHz\_SISO\_NTNV\_60MHz\_DFT-s-OFDM QPSK\_3480MHz\_Outer\_Full



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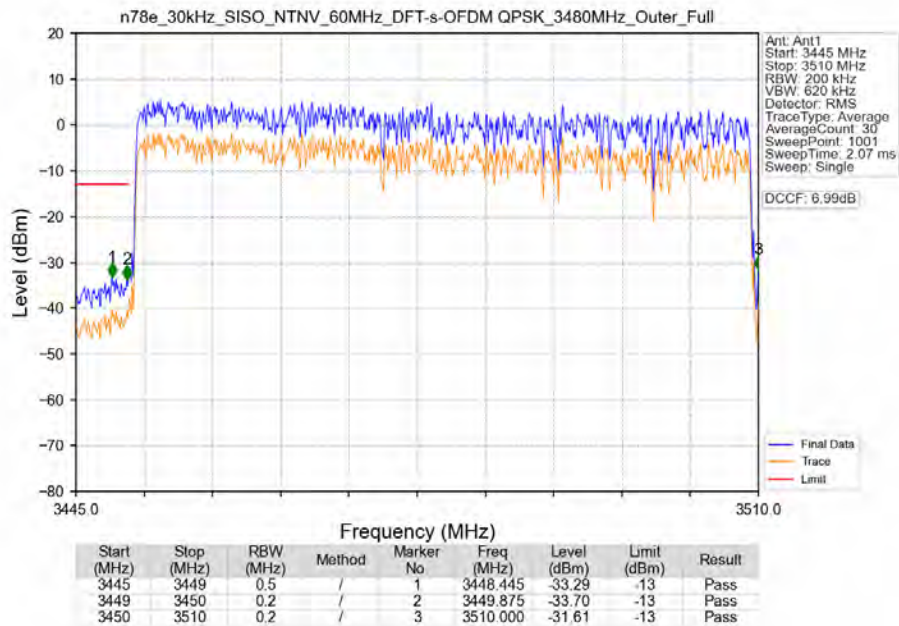


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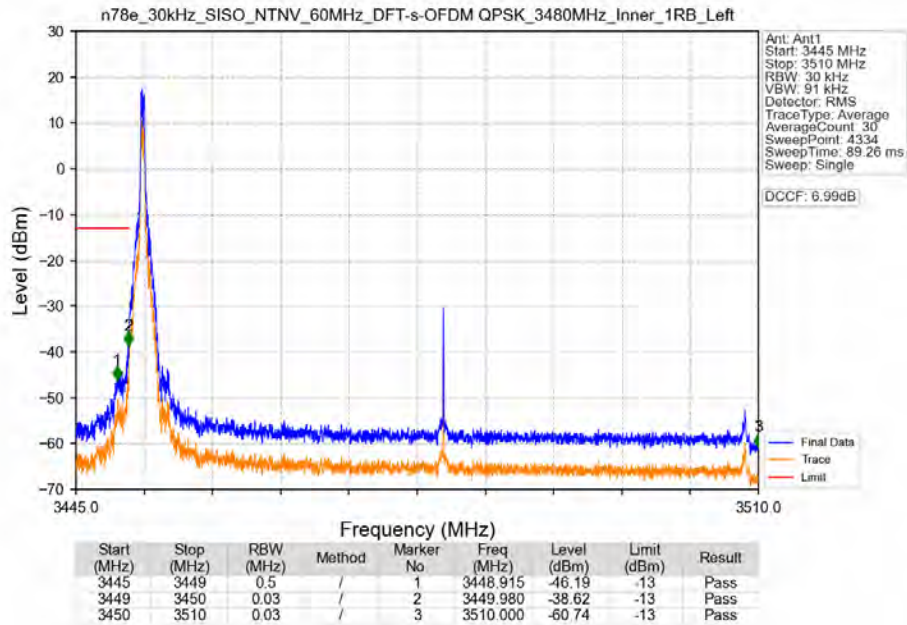
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n78e\_30kHz\_SISO\_NTNV\_60MHz\_DFT-s-OFDM\_QPSK\_3500.01MHz\_Edge\_1RB\_Left



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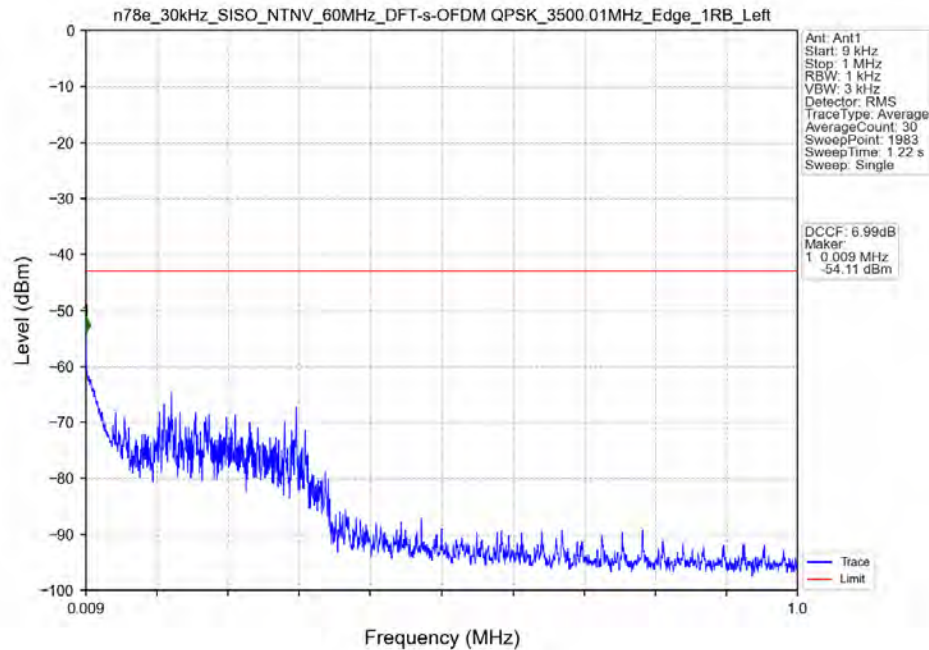


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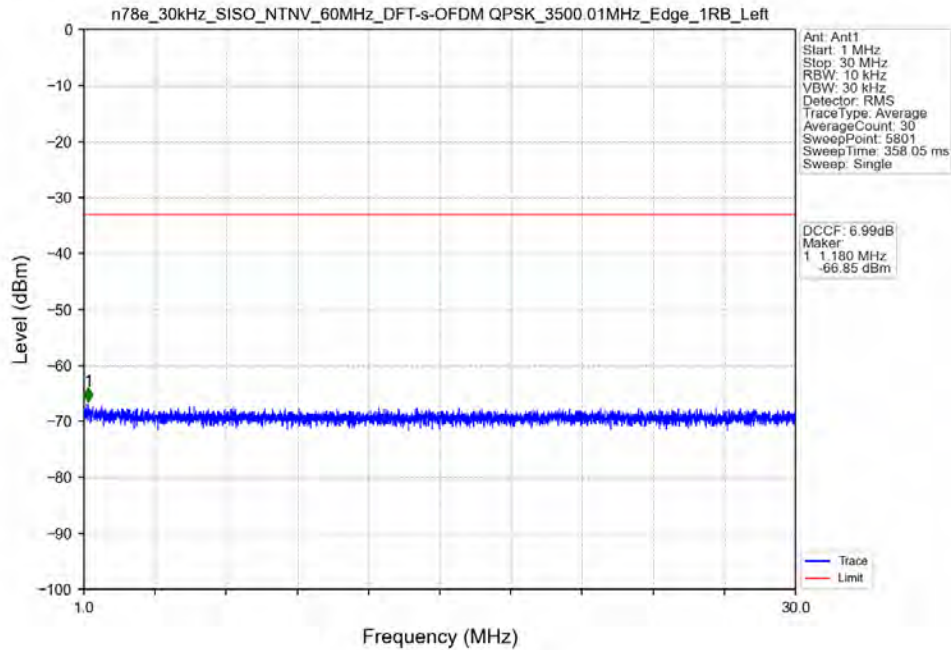
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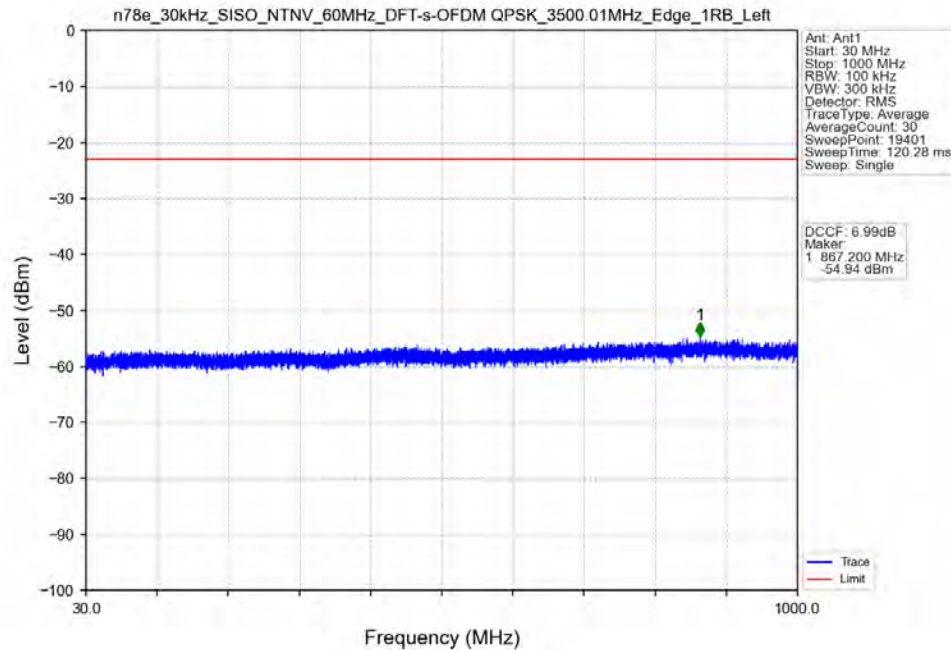


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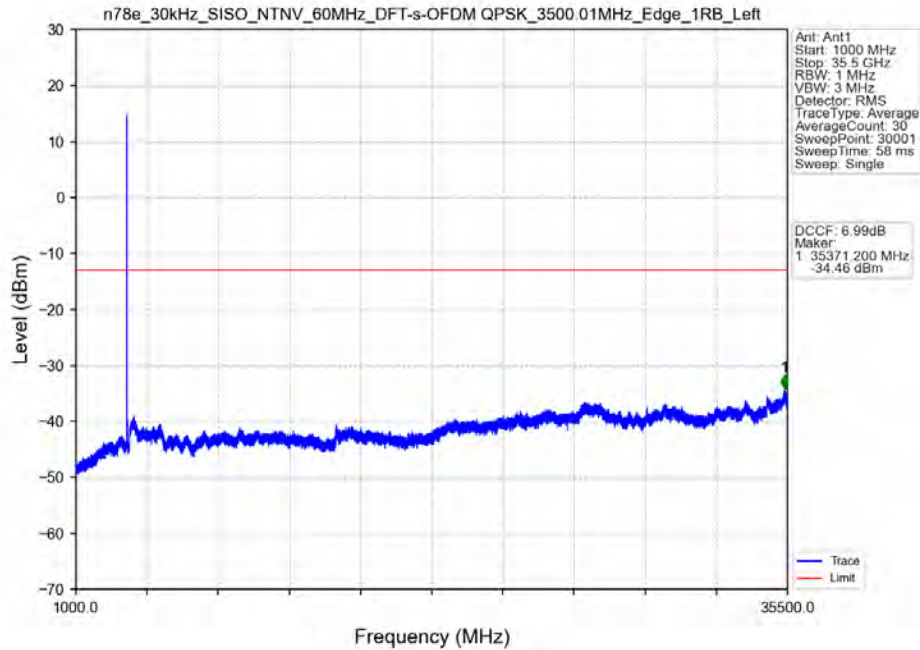
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n78e\_30kHz\_SISO\_NTNV\_60MHz\_DFT-s-OFDM\_QPSK\_3519.99MHz\_Edge\_1RB\_Right



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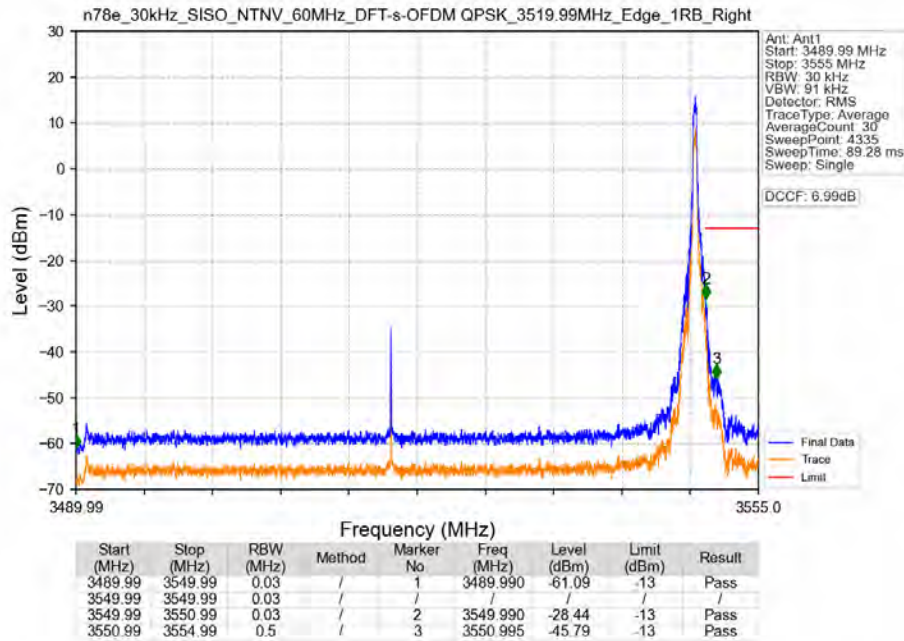


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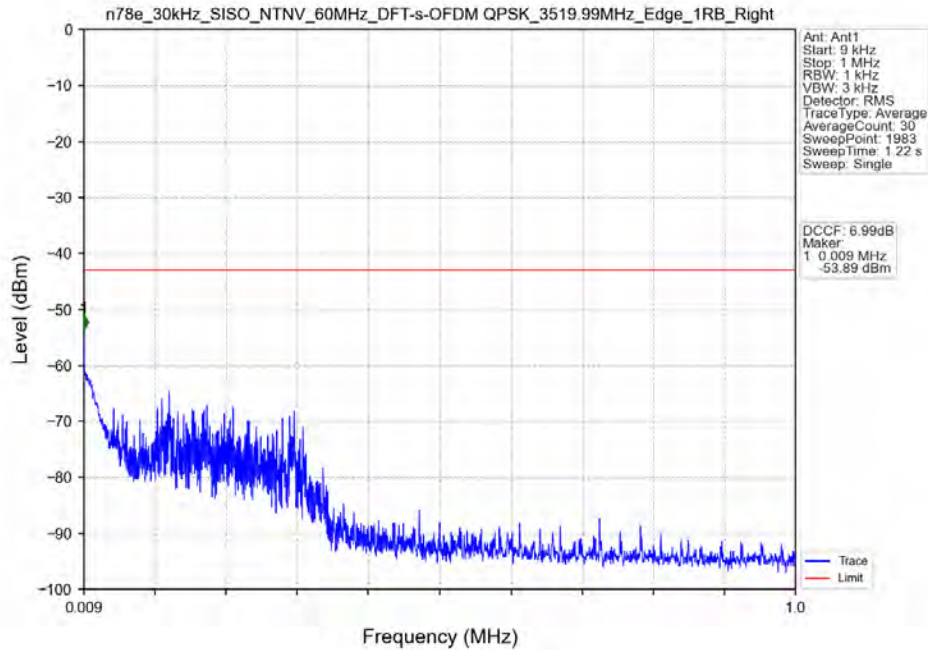
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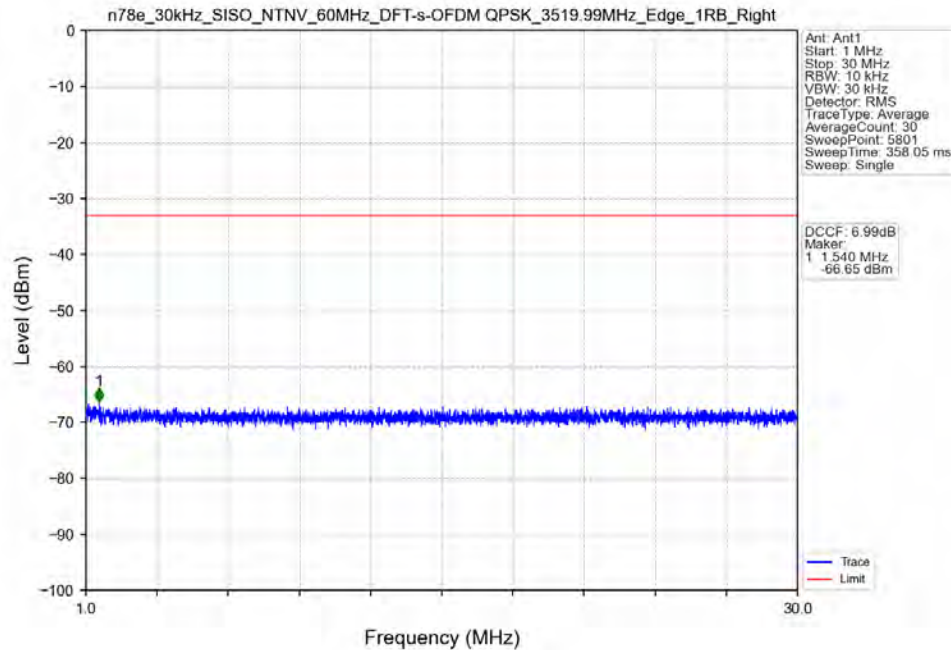


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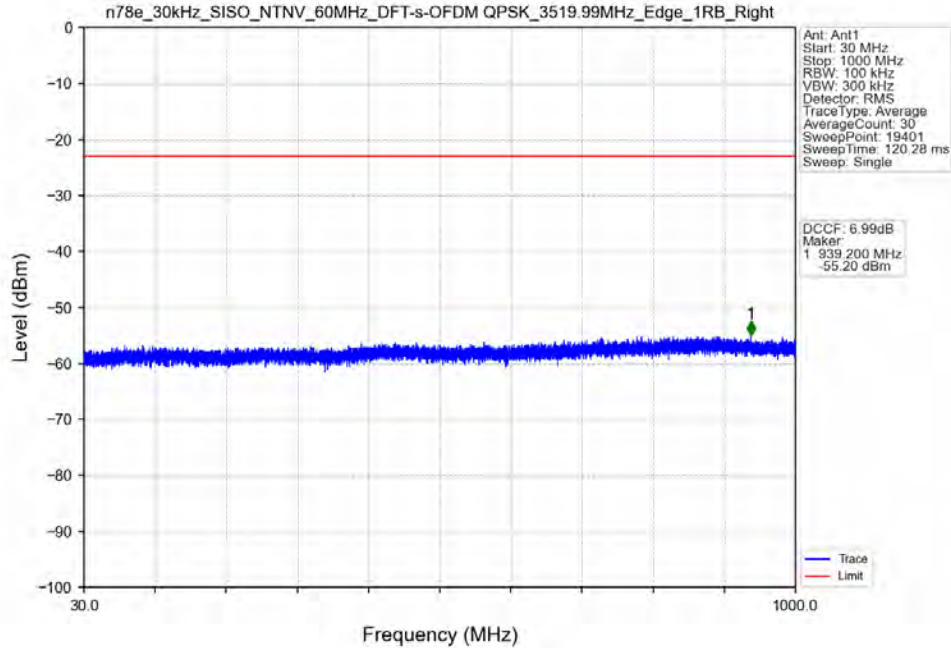
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n78e\_30kHz\_SISO\_NTNV\_60MHz\_DFT-s-OFDM\_QPSK\_3519.99MHz\_Edge\_1RB\_Right



n78e\_30kHz\_SISO\_NTNV\_60MHz\_DFT-s-OFDM\_QPSK\_3519.99MHz\_Edge\_1RB\_Right



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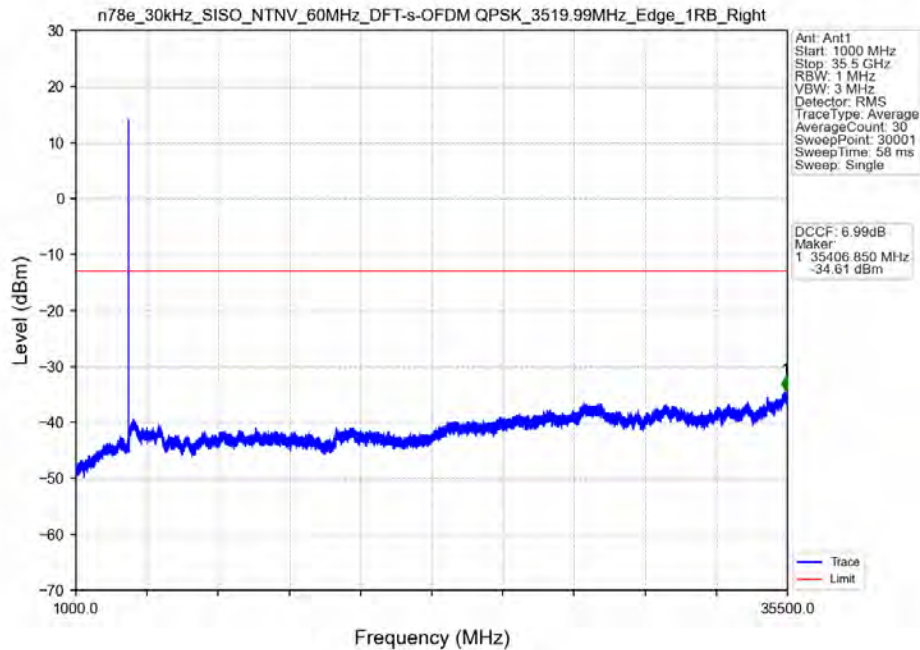


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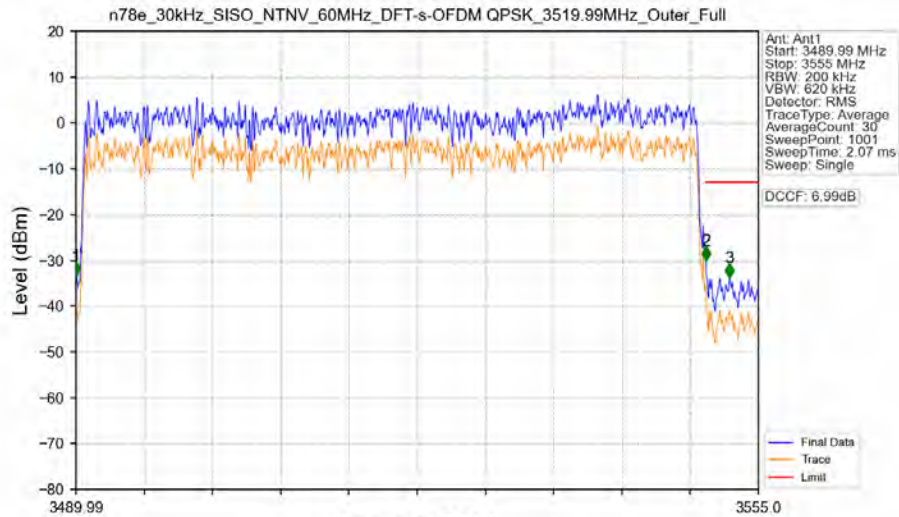
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n78e\_30kHz\_SISO\_NTNV\_60MHz\_DFT-s-OFDM\_QPSK\_3519.99MHz\_Outer\_Full



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 3489.99     | 3549.99    | 0.2       | /      | 1          | 3489.990   | -33.43      | -13         | Pass   |
| 3549.99     | 3549.99    | 0.2       | /      | /          | /          | /           | /           | /      |
| 3549.99     | 3550.99    | 0.2       | /      | 2          | 3549.994   | -30.06      | -13         | Pass   |
| 3550.99     | 3554.99    | 0.5       | /      | 3          | 3552.270   | -33.81      | -13         | Pass   |

n78e\_30kHz\_SISO\_NTNV\_60MHz\_DFT-s-OFDM\_QPSK\_3519.99MHz\_Inner\_1RB\_Right



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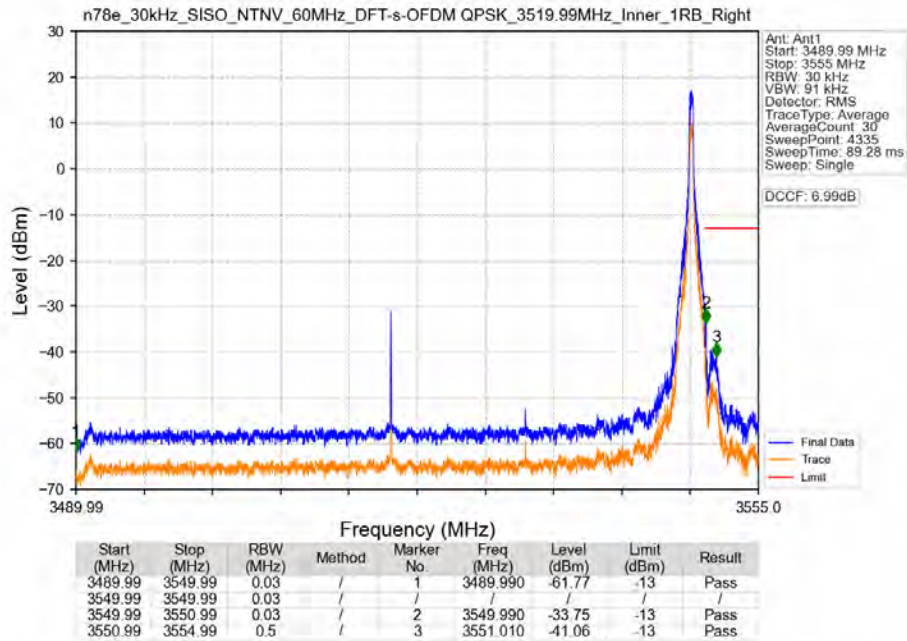


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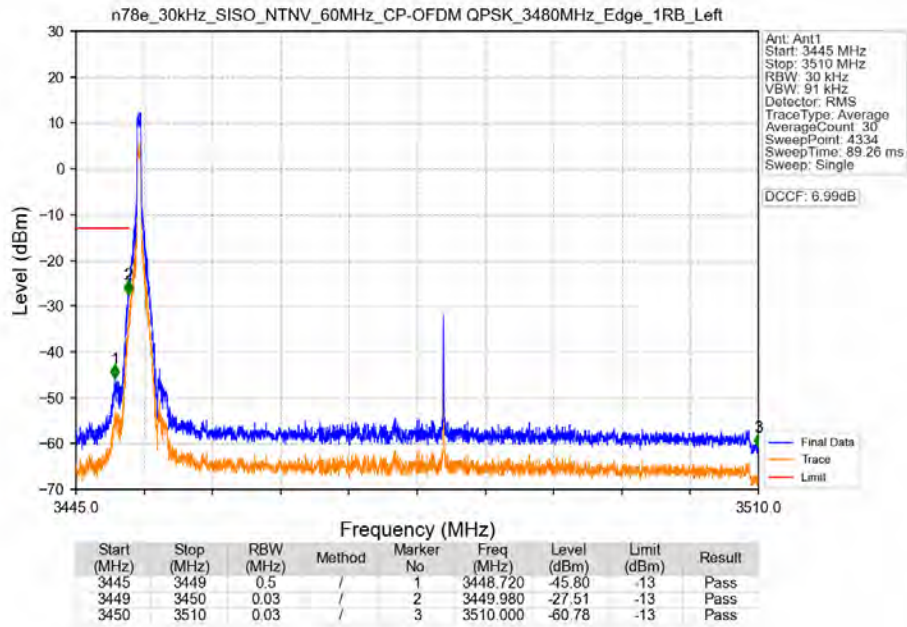
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n78e\_30kHz\_SISO\_NTNV\_60MHz\_CP-OFDM\_QPSK\_3480MHz\_Edge\_1RB\_Left



n78e\_30kHz\_SISO\_NTNV\_60MHz\_CP-OFDM\_QPSK\_3480MHz\_Edge\_1RB\_Left



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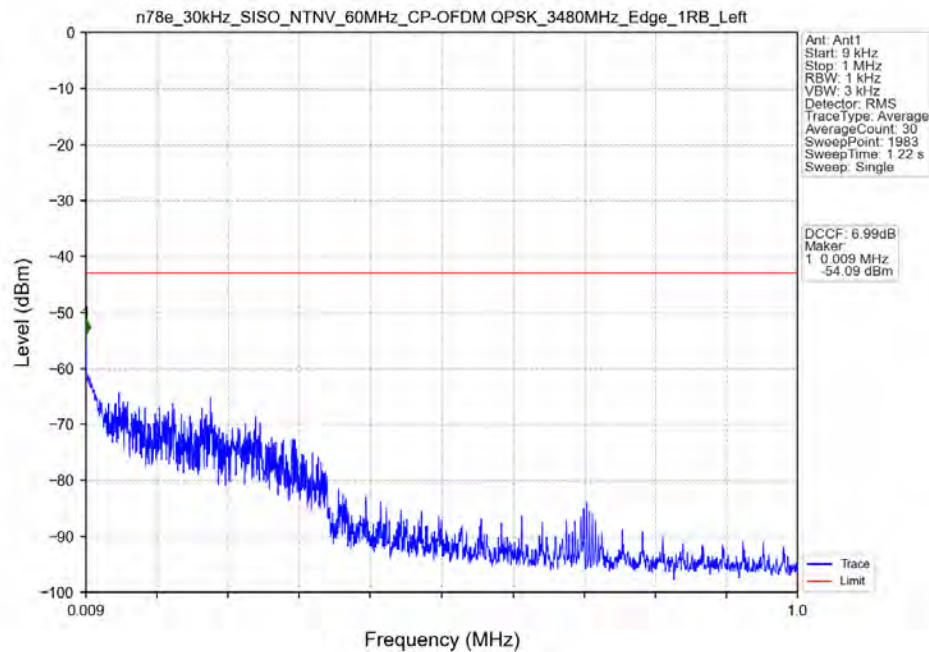


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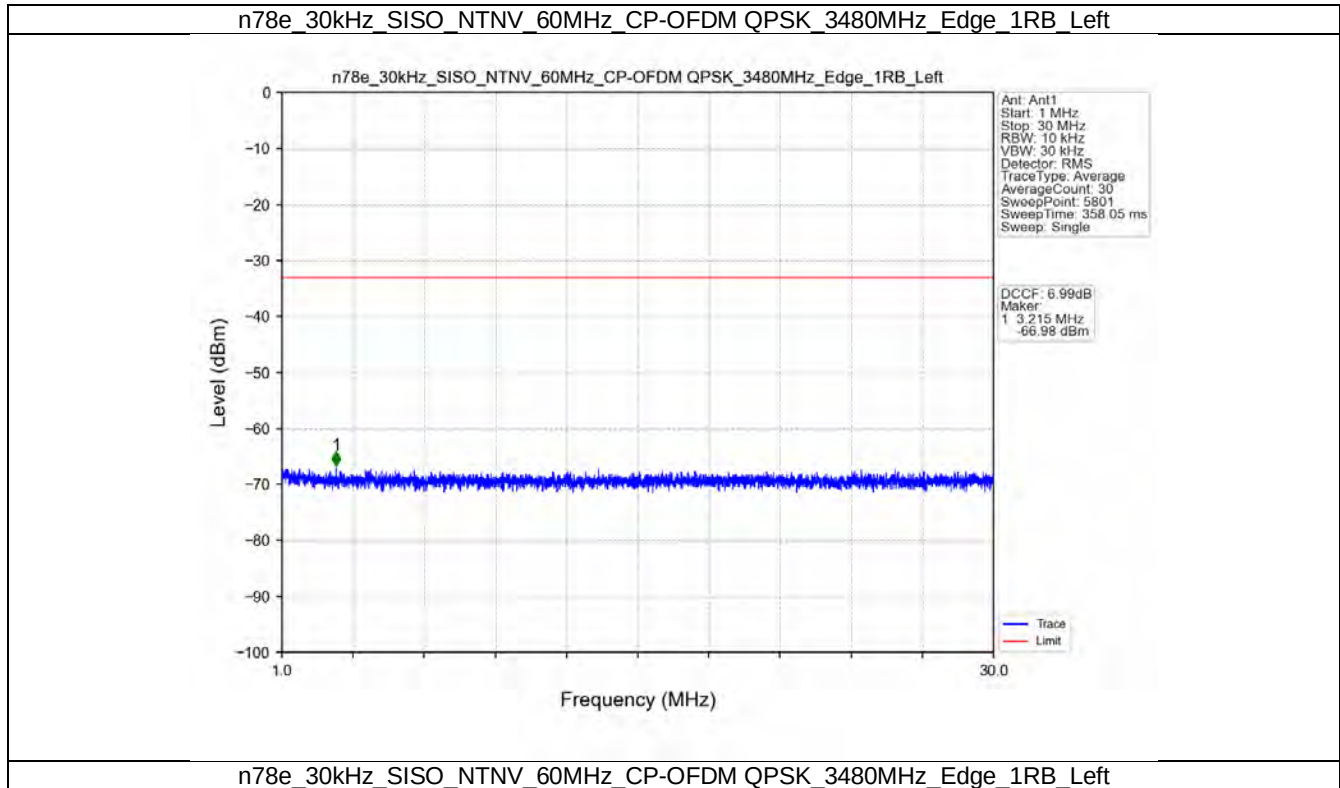


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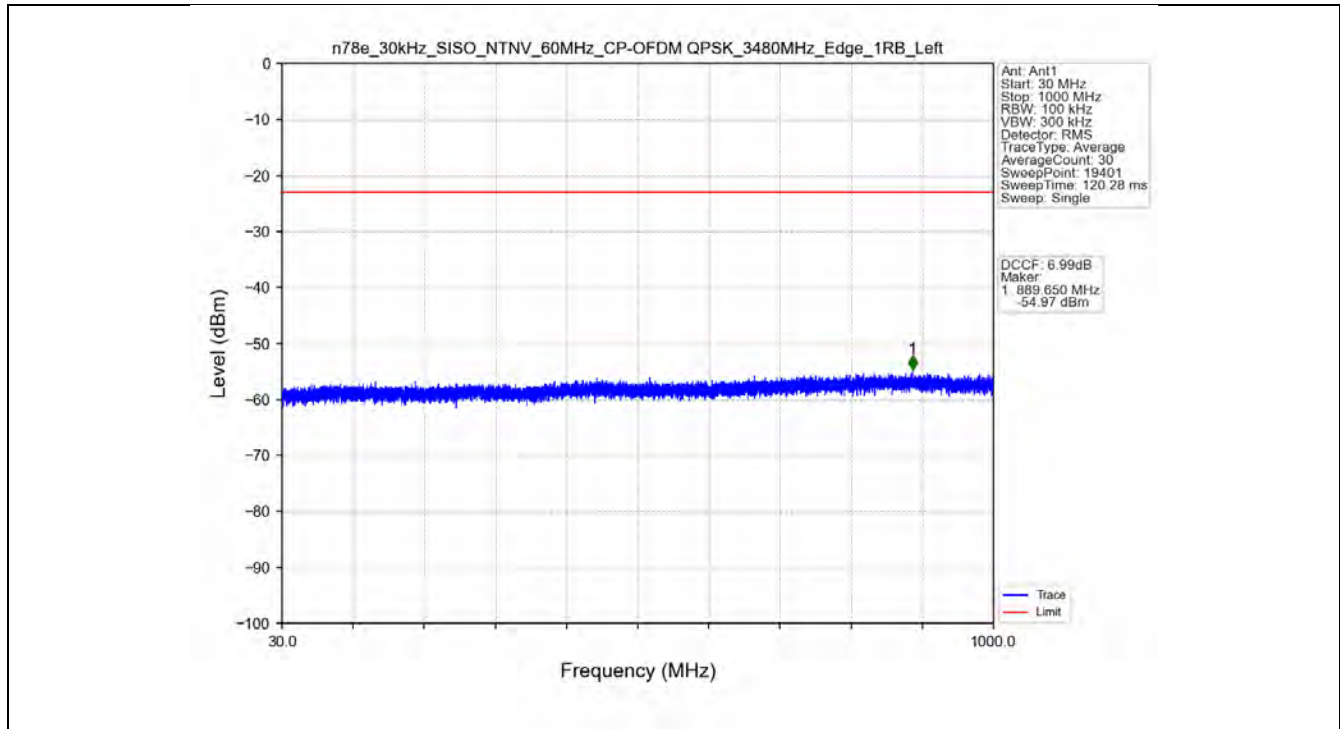


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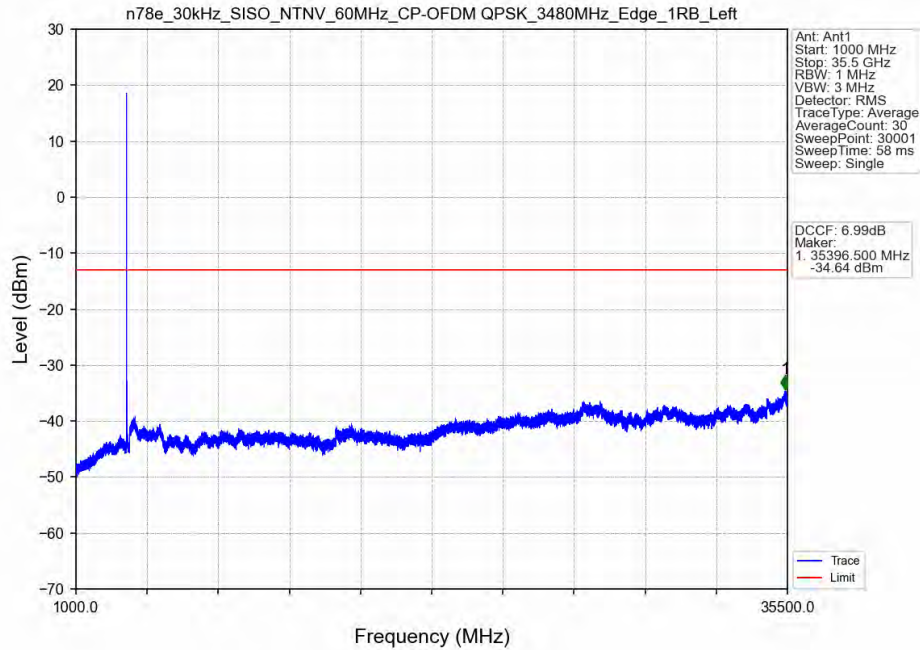
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n78e\_30kHz\_SISO\_NTNV\_60MHz\_CP-OFDM QPSK\_3480MHz\_Edge\_1RB\_Left



n78e\_30kHz\_SISO\_NTNV\_60MHz\_CP-OFDM QPSK\_3480MHz\_Outer\_Full



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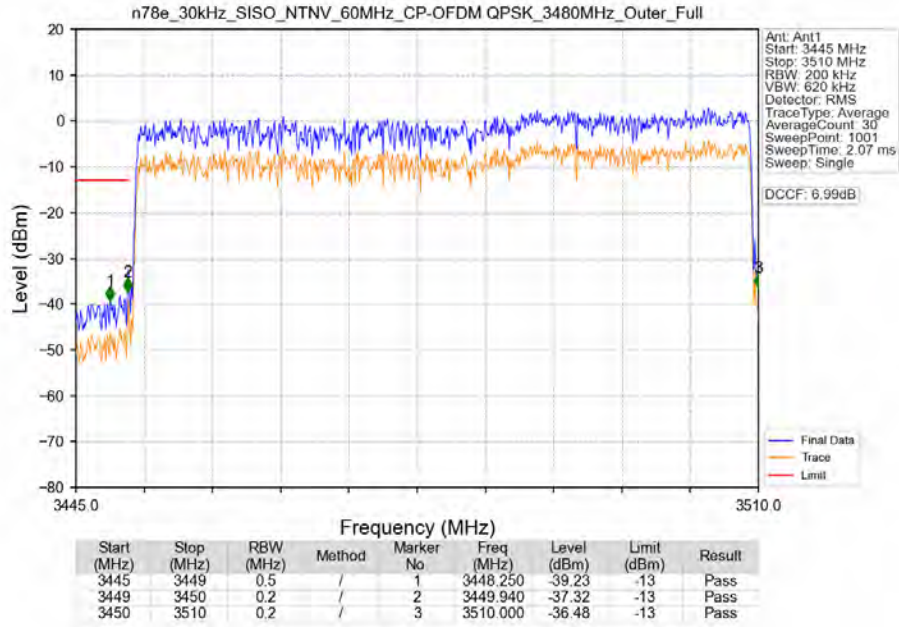


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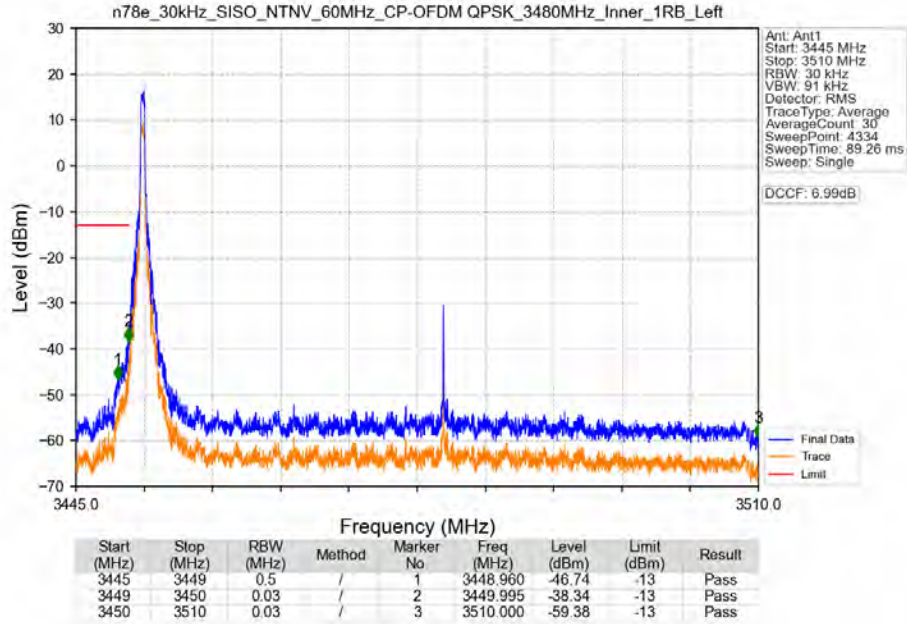
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n78e\_30kHz\_SISO\_NTNV\_60MHz\_CP-OFDM\_QPSK\_3480MHz\_Inner\_1RB\_Left



n78e\_30kHz\_SISO\_NTNV\_60MHz\_CP-OFDM\_QPSK\_3500.01MHz\_Edge\_1RB\_Left



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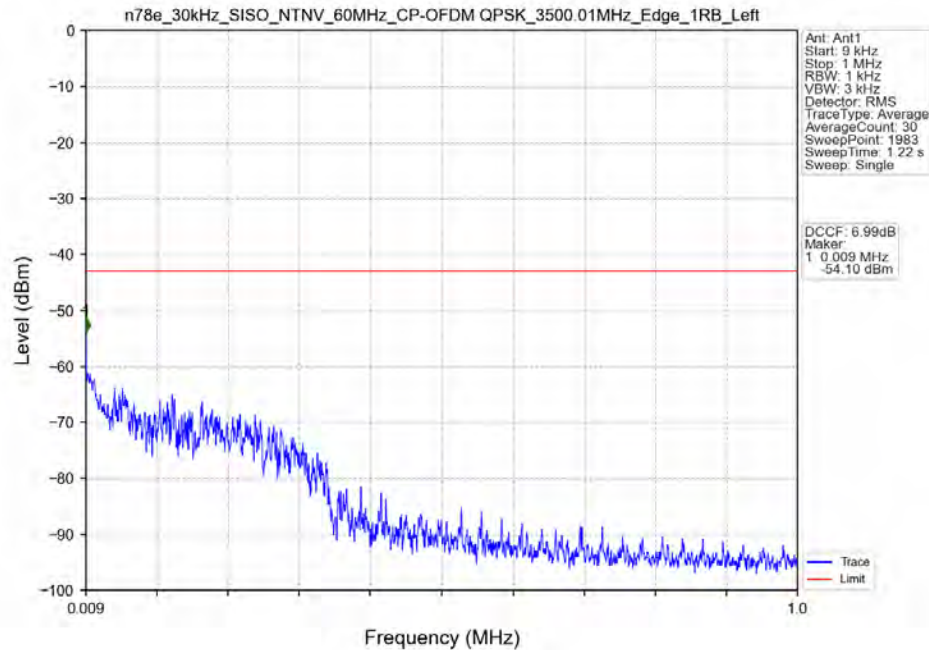


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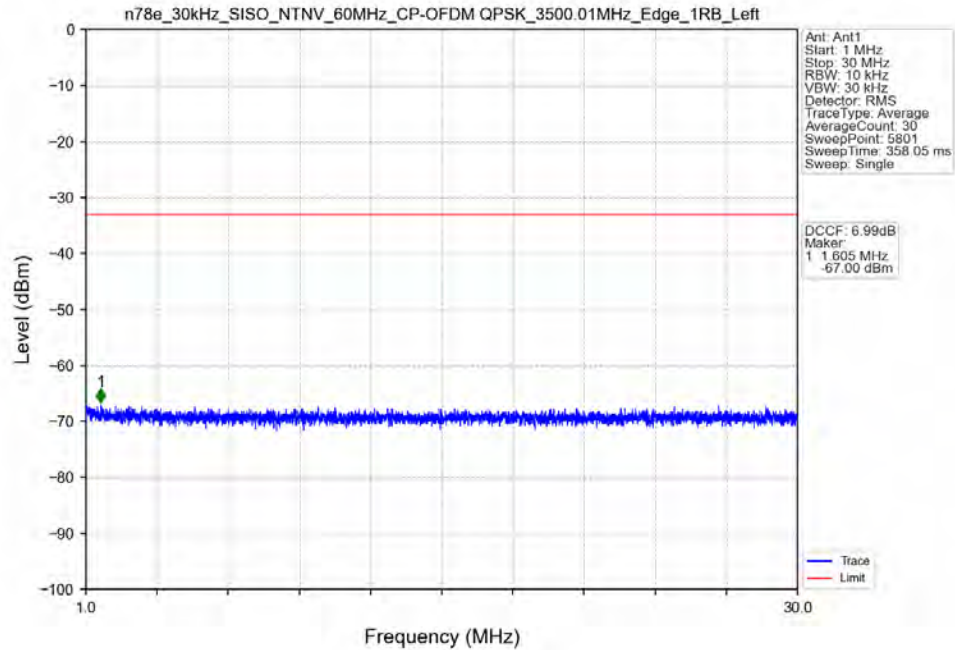
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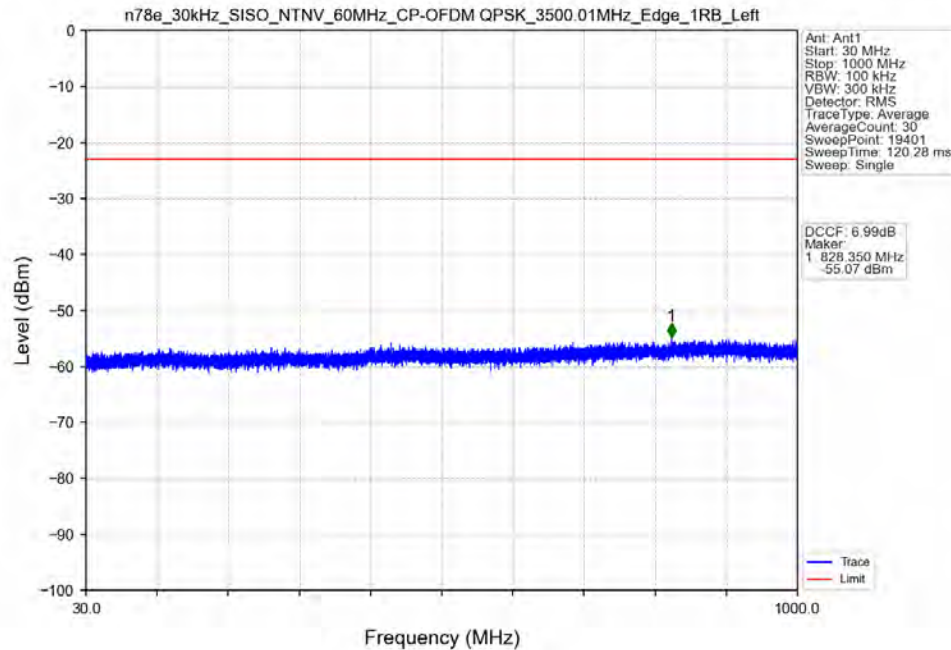


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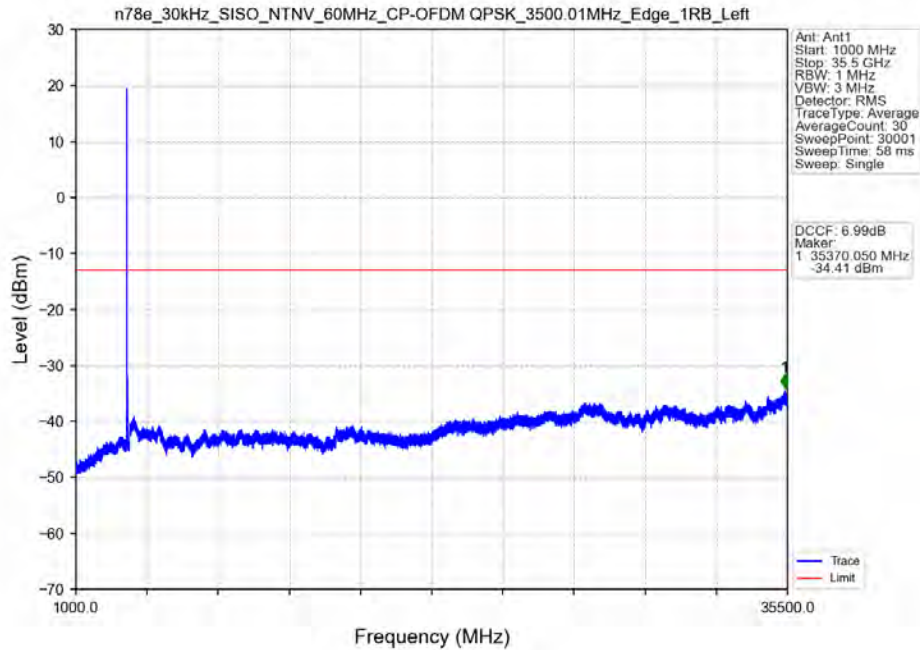
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n78e\_30kHz\_SISO\_NTNV\_60MHz\_CP-OFDM QPSK\_3500.01MHz\_Edge\_1RB\_Left



n78e\_30kHz\_SISO\_NTNV\_60MHz\_CP-OFDM QPSK\_3519.99MHz\_Edge\_1RB\_Right



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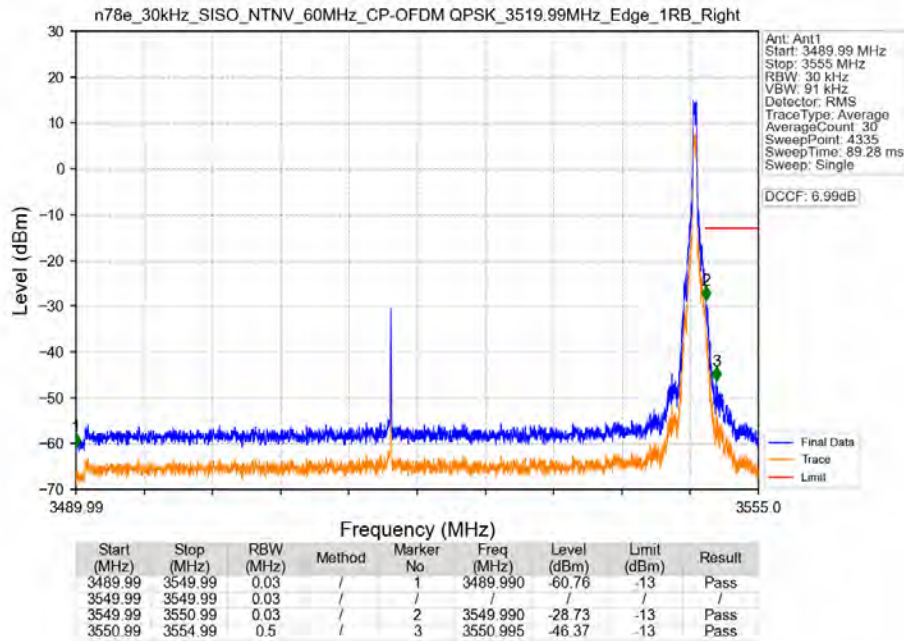


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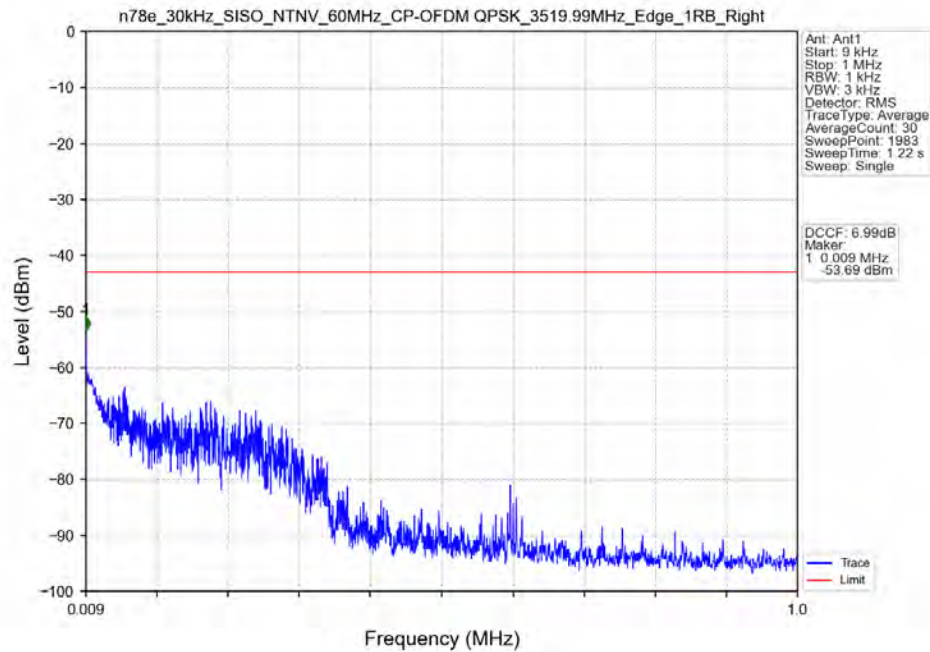
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n78e\_30kHz\_SISO\_NTNV\_60MHz\_CP-OFDM QPSK\_3519.99MHz\_Edge\_1RB\_Right



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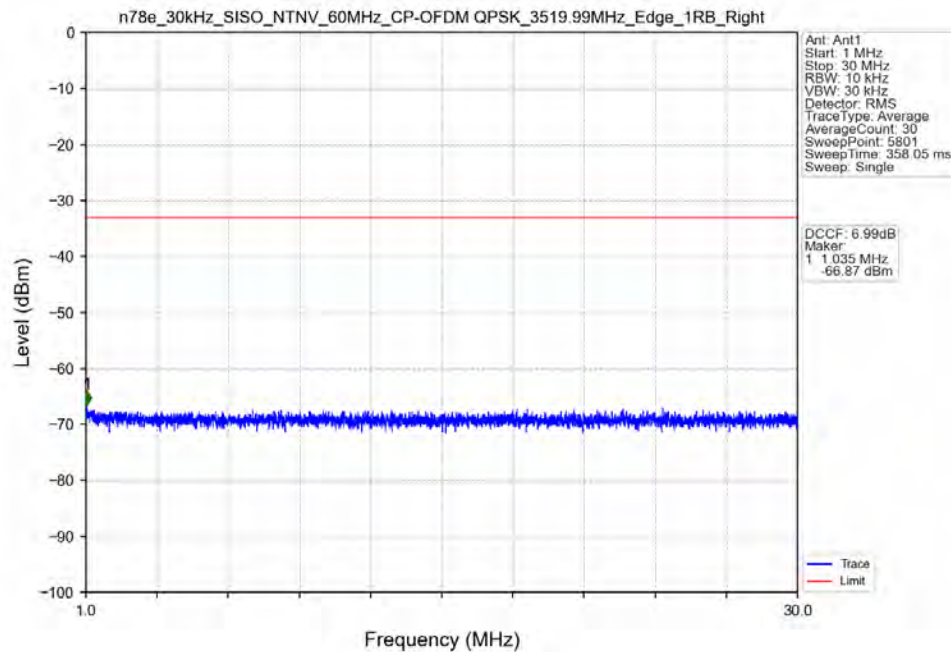


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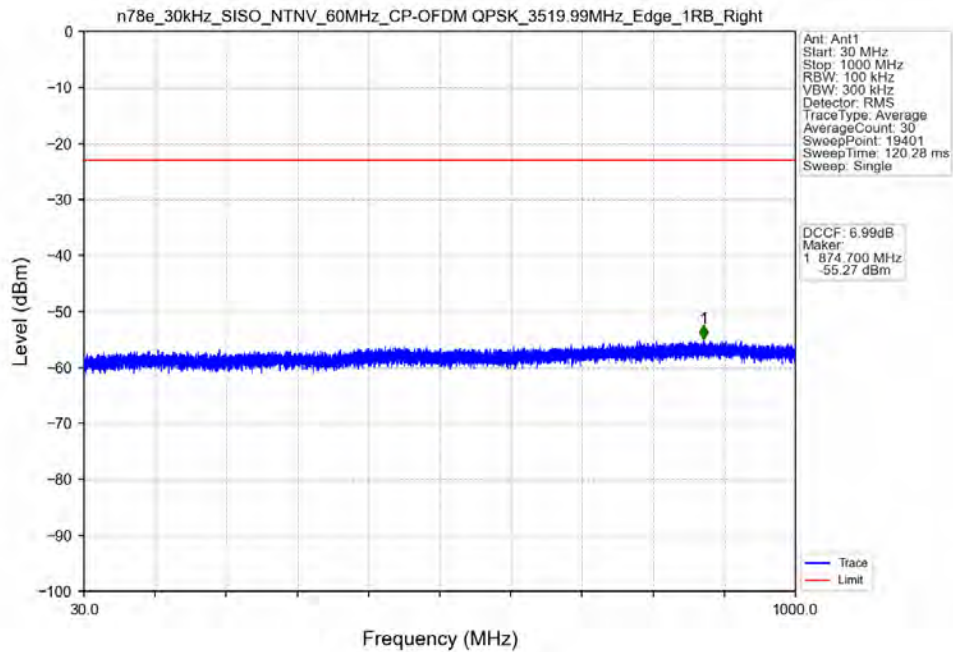
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n78e\_30kHz\_SISO\_NTNV\_60MHz\_CP-OFDM QPSK\_3519.99MHz\_Edge\_1RB\_Right



n78e\_30kHz\_SISO\_NTNV\_60MHz\_CP-OFDM QPSK\_3519.99MHz\_Edge\_1RB\_Right



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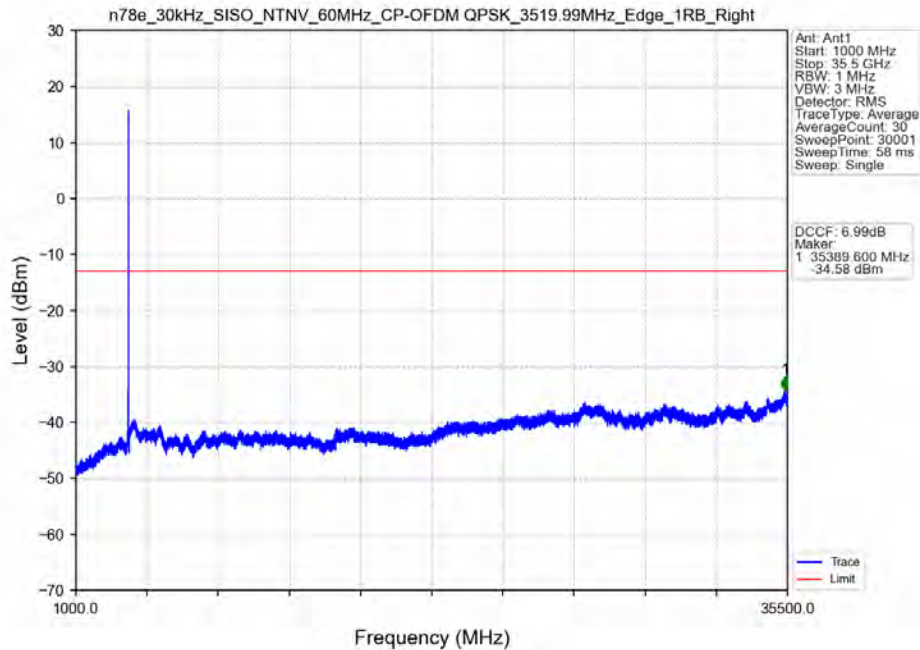


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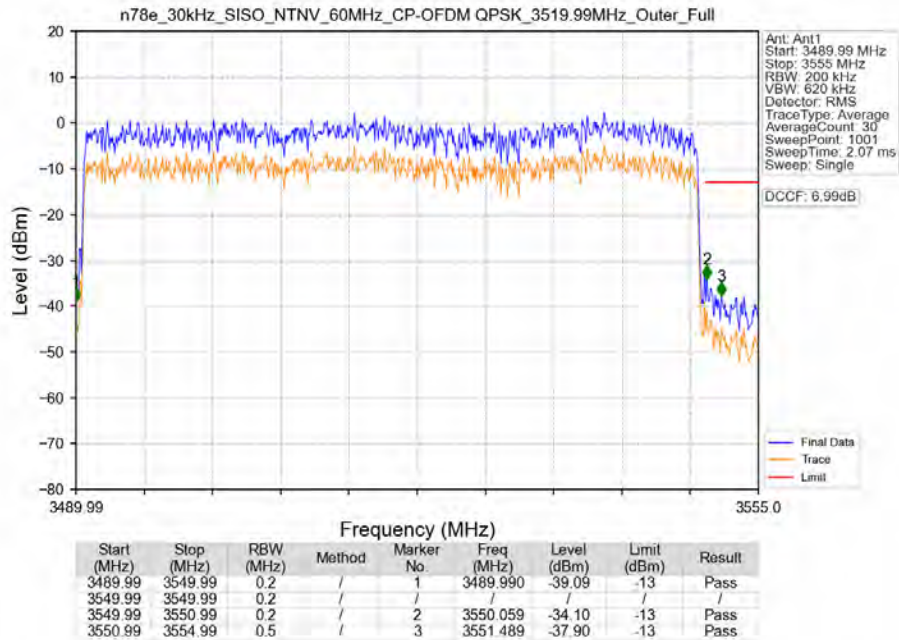
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n78e\_30kHz\_SISO\_NTNV\_60MHz\_CP-OFDM\_QPSK\_3519.99MHz\_Outer\_Full



n78e\_30kHz\_SISO\_NTNV\_60MHz\_CP-OFDM\_QPSK\_3519.99MHz\_Inner\_1RB\_Right



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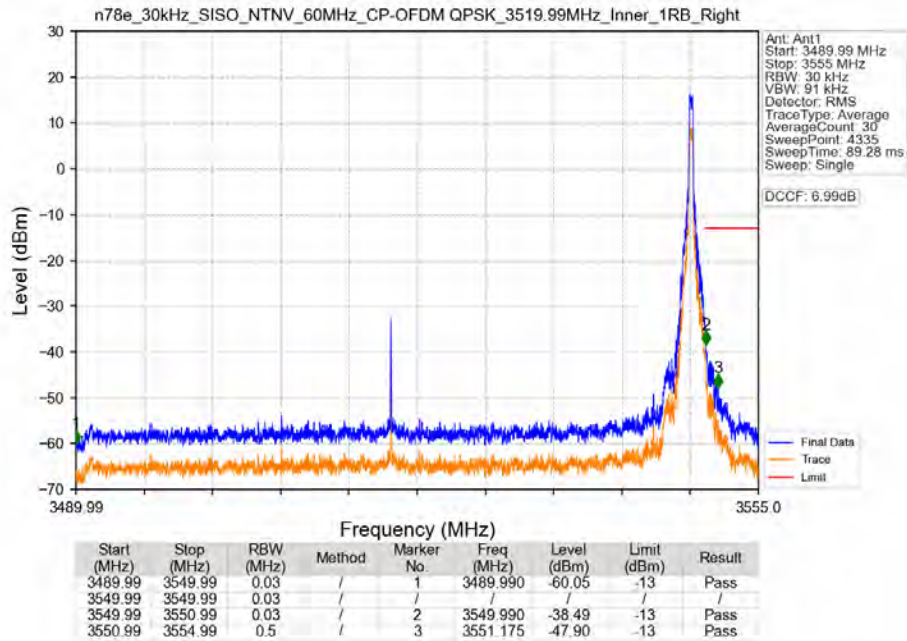


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## 5.6 30k\_SISO\_70MHz\_NTNV

### 5.6.1 Test Result

| 5G NR n78e SCS=30kHz SISO 70MHz NTN |                 |                 |                     |                     |     |       |         |      |
|-------------------------------------|-----------------|-----------------|---------------------|---------------------|-----|-------|---------|------|
| Modulation                          | Frequency (MHz) | RB Allocation   | Spurious Emission   |                     |     |       | Verdict |      |
|                                     |                 |                 | Ant1                | Ant4                | Sum | Limit |         |      |
| DFT-s-OFDM PI/2 BPSK                | 3485.01         | Edge_1RB_Left   | Refer To Test Graph |                     |     |       | Pass    |      |
|                                     |                 | Outer_Full      | Refer To Test Graph |                     |     |       | Pass    |      |
|                                     |                 | Inner_1RB_Left  | Refer To Test Graph |                     |     |       | Pass    |      |
|                                     | 3500.01         | Edge_1RB_Left   | Refer To Test Graph |                     |     |       | Pass    |      |
|                                     |                 | 3514.98         | Edge_1RB_Right      | Refer To Test Graph |     |       |         | Pass |
|                                     |                 |                 | Outer_Full          | Refer To Test Graph |     |       |         | Pass |
| DFT-s-OFDM QPSK                     | 3485.01         |                 | Inner_1RB_Right     | Refer To Test Graph |     |       |         | Pass |
|                                     |                 | Edge_1RB_Left   | Refer To Test Graph |                     |     |       | Pass    |      |
|                                     |                 | Outer_Full      | Refer To Test Graph |                     |     |       | Pass    |      |
|                                     | 3500.01         | Inner_1RB_Left  | Refer To Test Graph |                     |     |       | Pass    |      |
|                                     |                 | 3514.98         | Edge_1RB_Left       | Refer To Test Graph |     |       |         | Pass |
|                                     |                 |                 | Edge_1RB_Right      | Refer To Test Graph |     |       |         | Pass |
| CP-OFDM QPSK                        | 3485.01         |                 | Outer_Full          | Refer To Test Graph |     |       |         | Pass |
|                                     |                 | Inner_1RB_Right | Refer To Test Graph |                     |     |       | Pass    |      |
|                                     |                 | Edge_1RB_Left   | Refer To Test Graph |                     |     |       | Pass    |      |
|                                     | 3500.01         | Outer_Full      | Refer To Test Graph |                     |     |       | Pass    |      |
|                                     |                 | 3514.98         | Edge_1RB_Left       | Refer To Test Graph |     |       |         | Pass |
|                                     |                 |                 | Edge_1RB_Right      | Refer To Test Graph |     |       |         | Pass |



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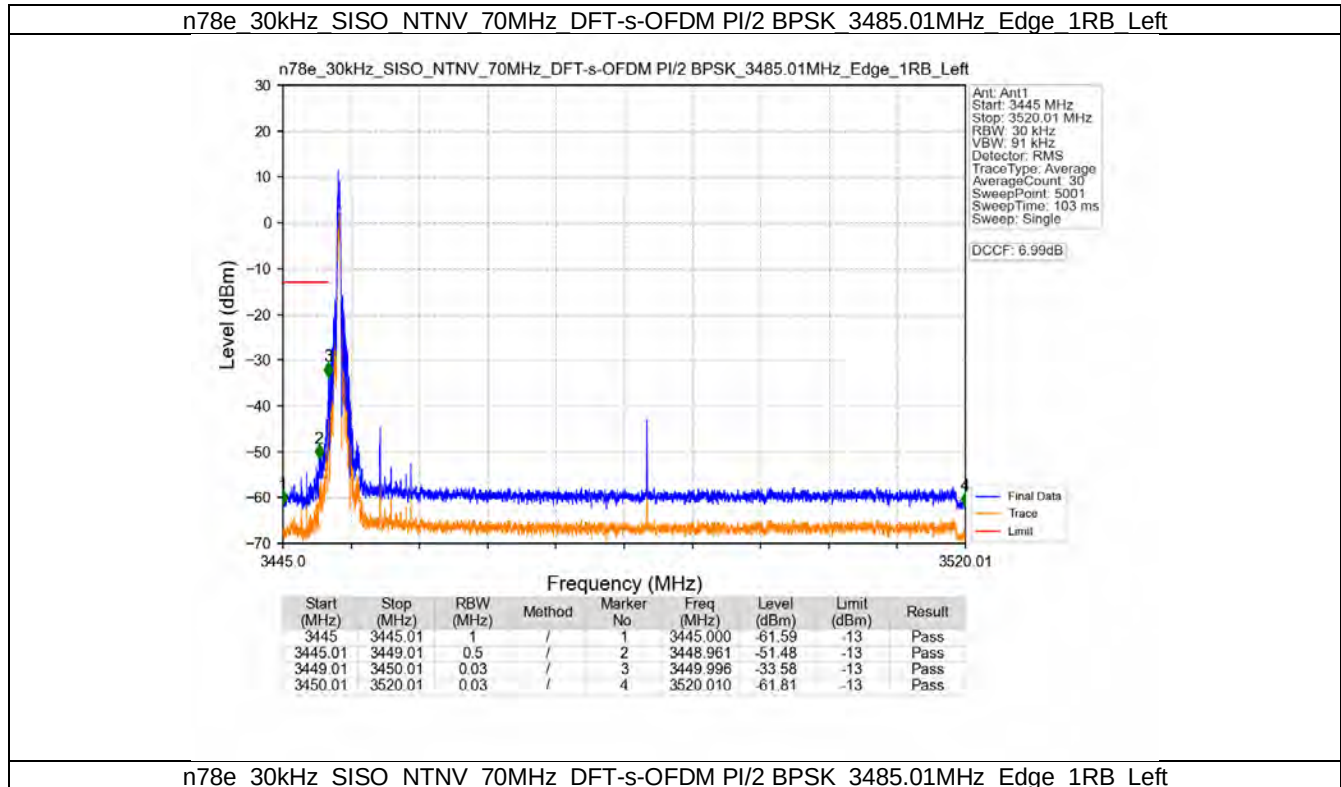
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## 5.6.2 Test Graph



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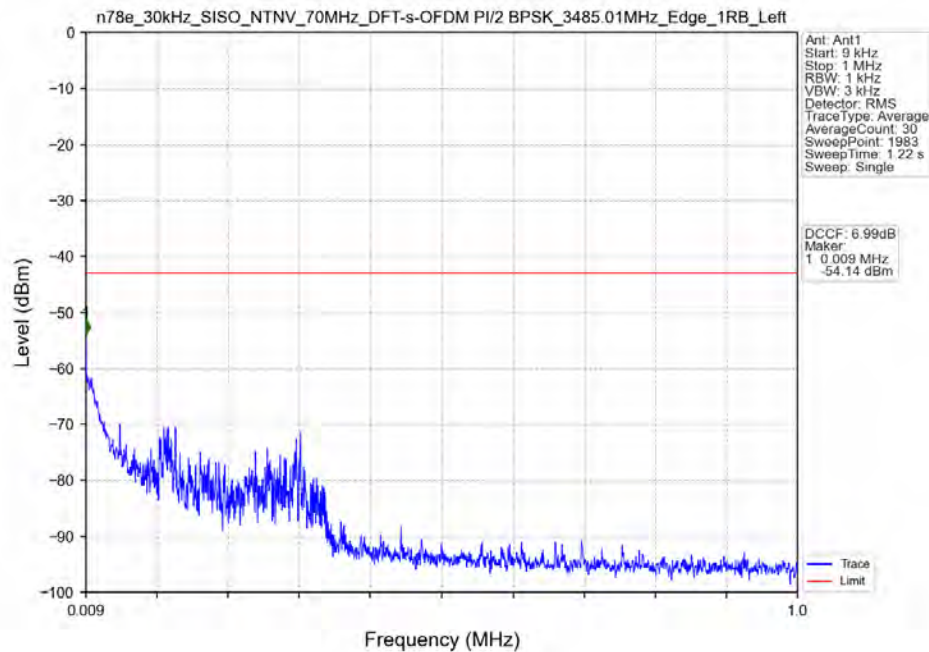


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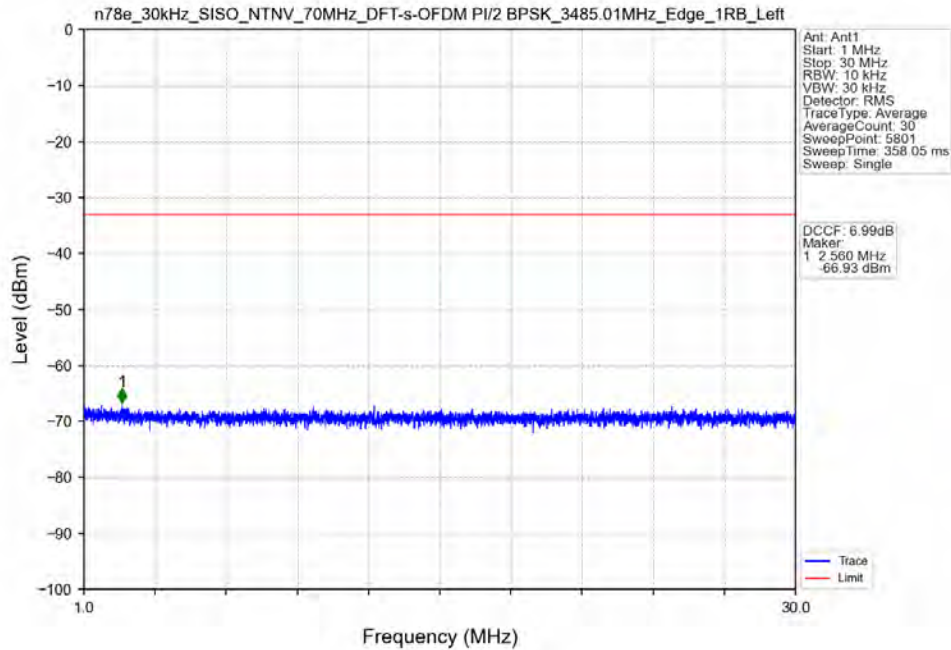
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n78e\_30kHz\_SISO\_NTNV\_70MHz\_DFT-s-OFDM PI/2 BPSK\_3485.01MHz\_Edge\_1RB\_Left



n78e\_30kHz\_SISO\_NTNV\_70MHz\_DFT-s-OFDM PI/2 BPSK\_3485.01MHz\_Edge\_1RB\_Left



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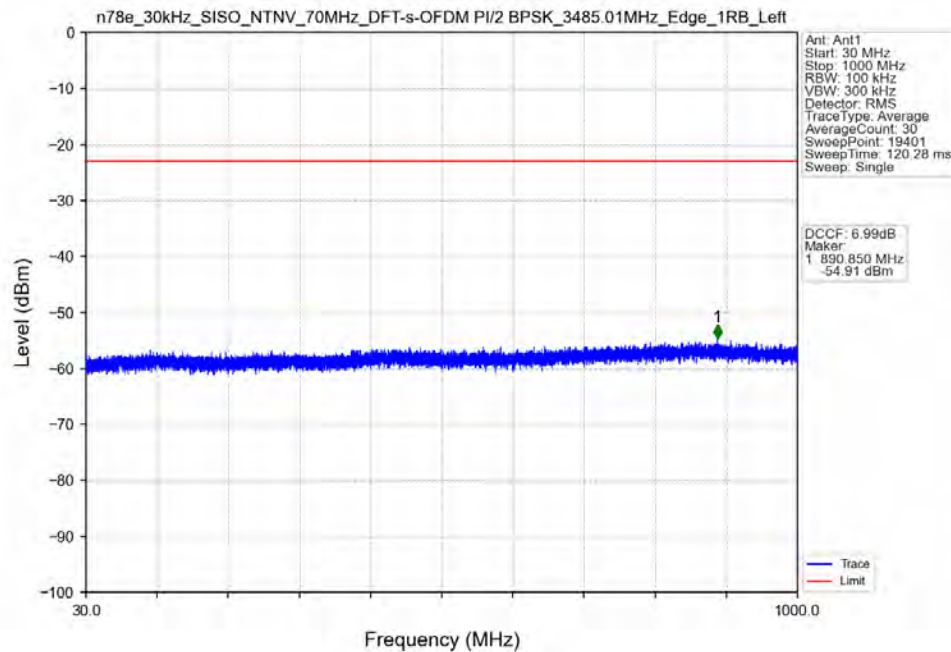


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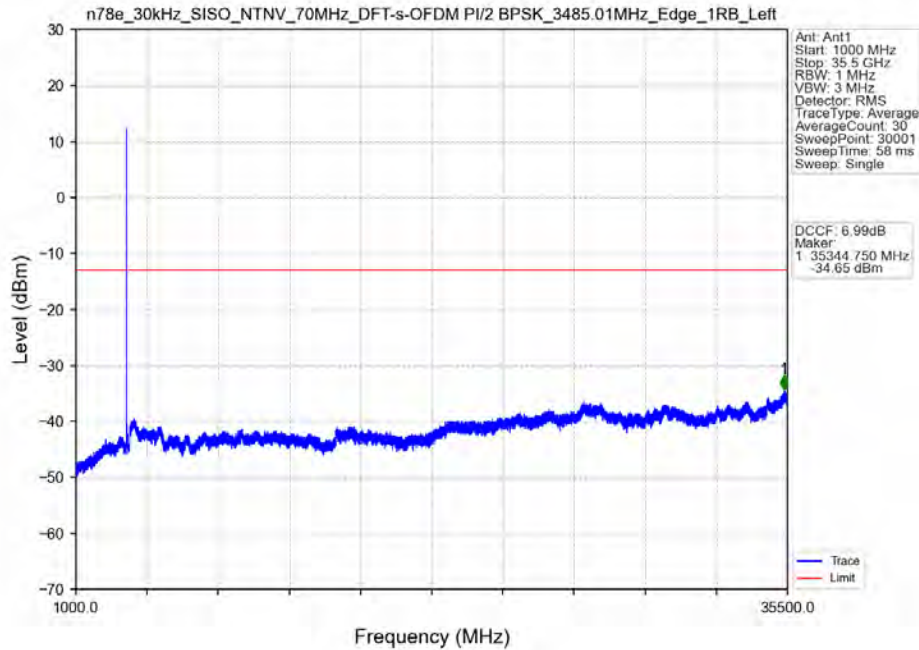
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n78e\_30kHz\_SISO\_NTNV\_70MHz\_DFT-s-OFDM PI/2 BPSK\_3485.01MHz\_Outer\_Full



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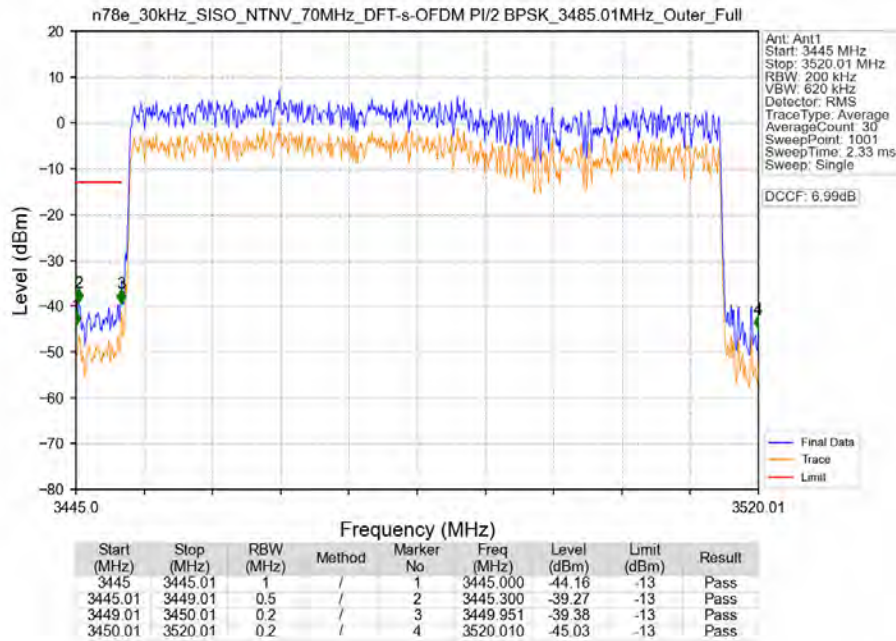


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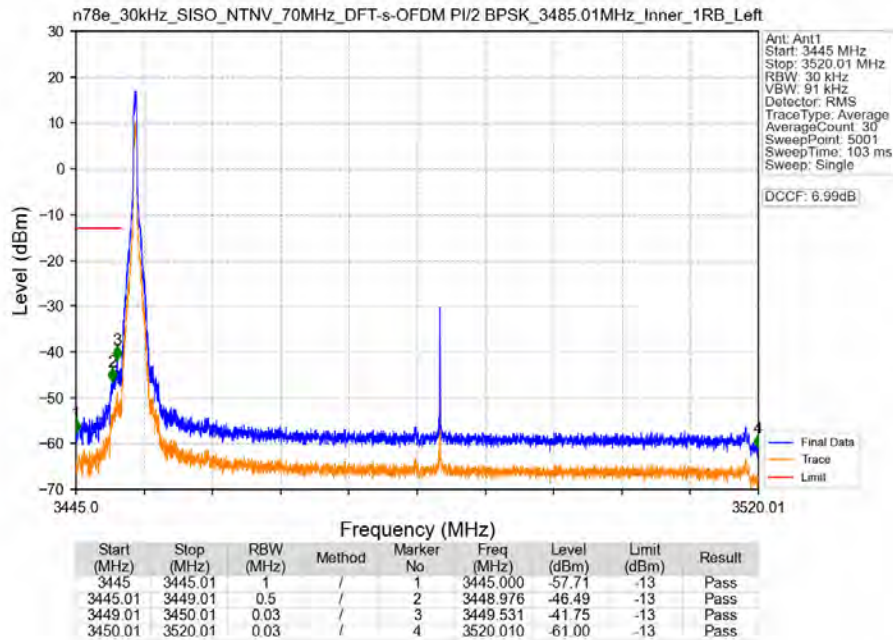
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n78e\_30kHz\_SISO\_NTNV\_70MHz\_DFT-s-OFDM PI/2 BPSK 3500.01MHz\_Edge\_1RB\_Left



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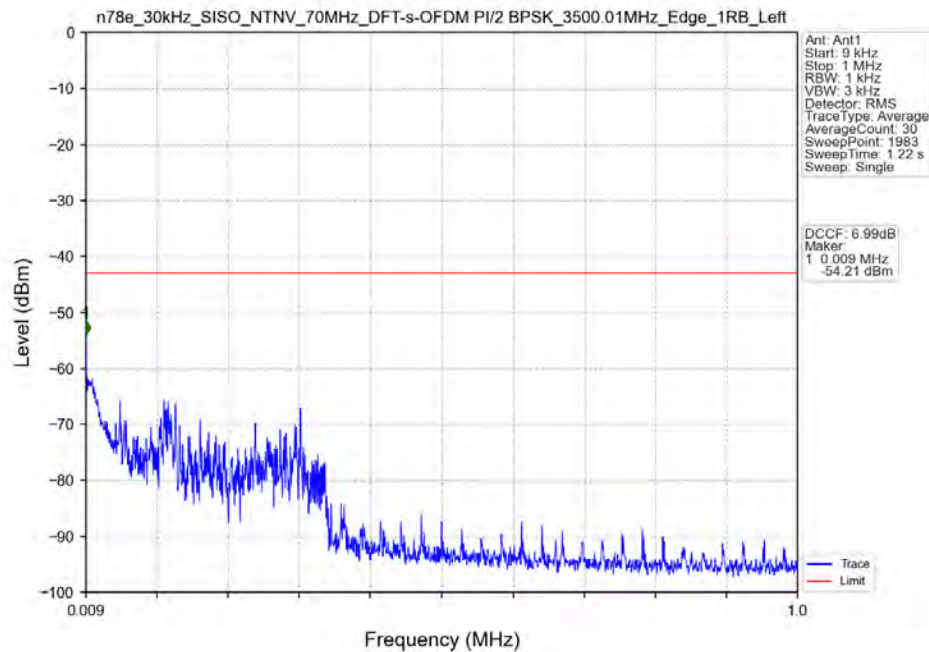


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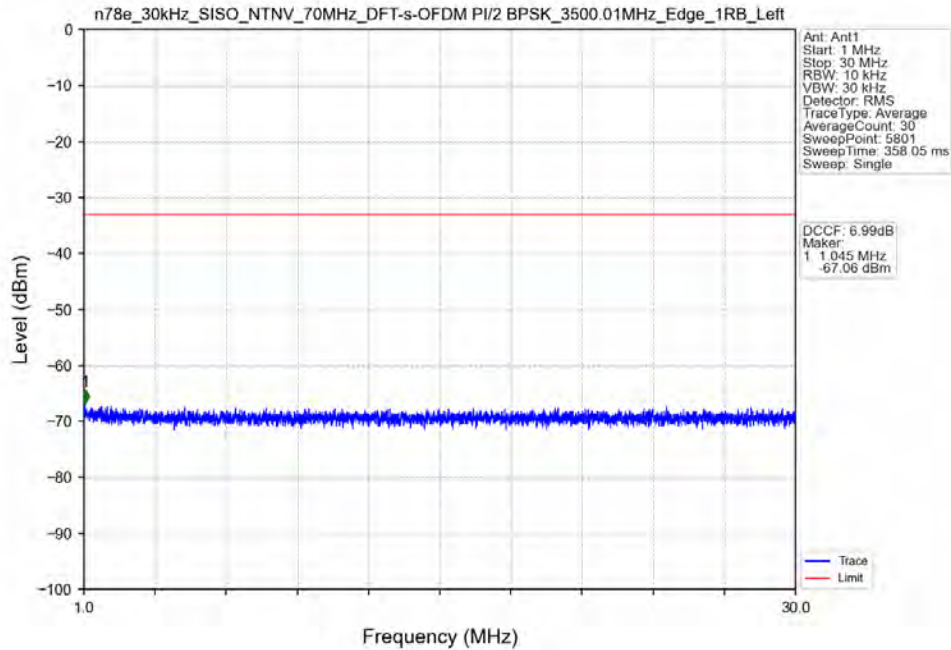
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n78e\_30kHz\_SISO\_NTNV\_70MHz\_DFT-s-OFDM PI/2 BPSK\_3500.01MHz\_Edge\_1RB\_Left



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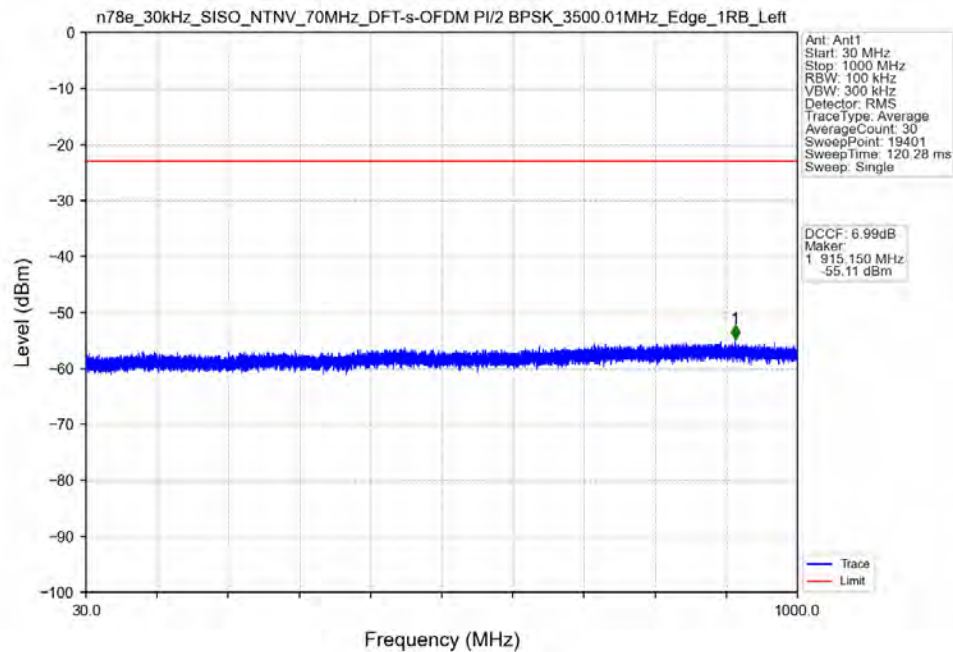


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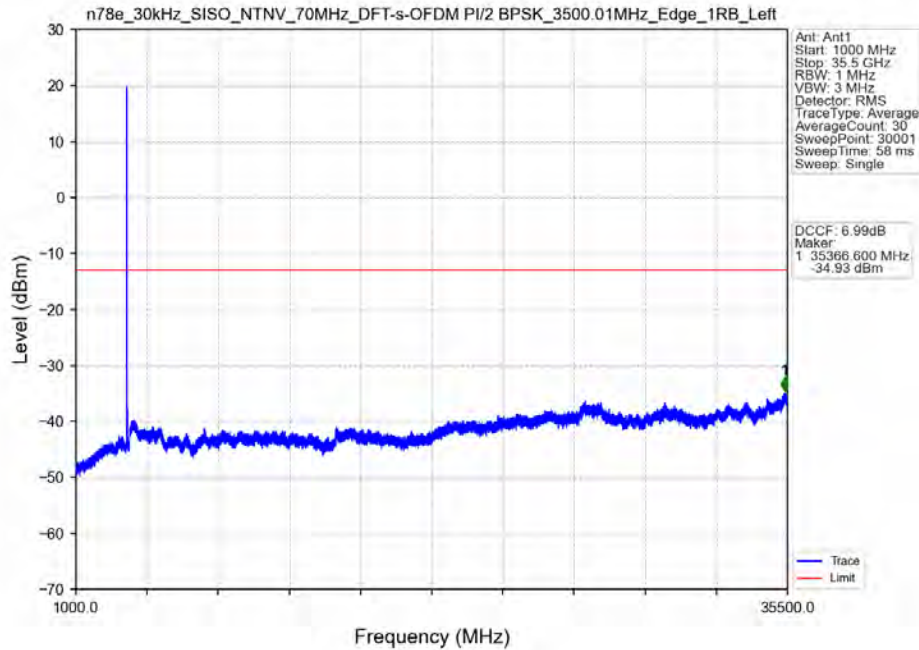
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n78e\_30kHz\_SISO\_NTNV\_70MHz\_DFT-s-OFDM PI/2 BPSK\_3514.98MHz\_Edge\_1RB\_Right



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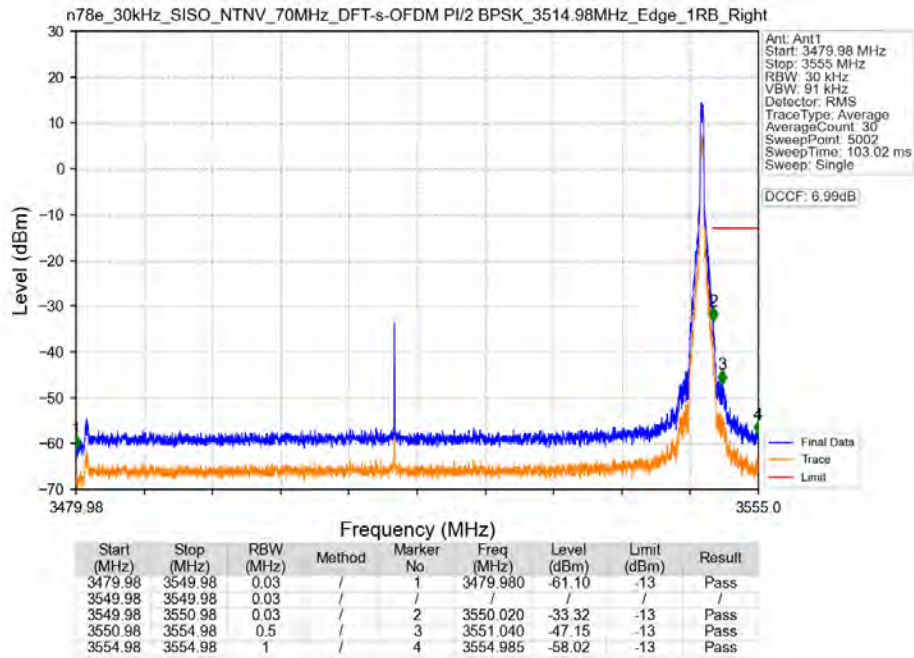


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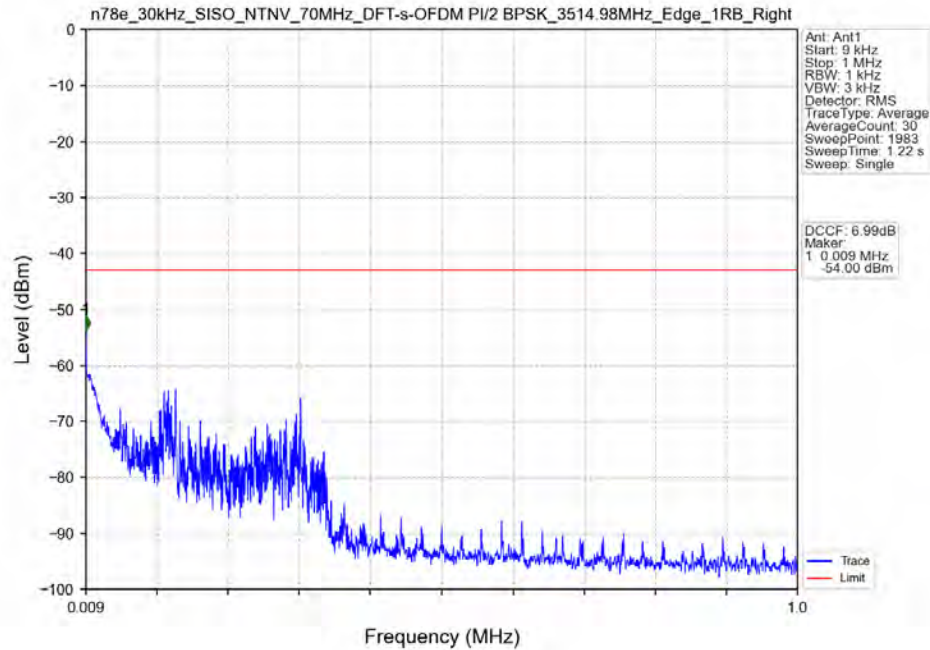
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n78e\_30kHz\_SISO\_NTNV\_70MHz\_DFT-s-OFDM PI/2 BPSK\_3514.98MHz\_Edge\_1RB\_Right



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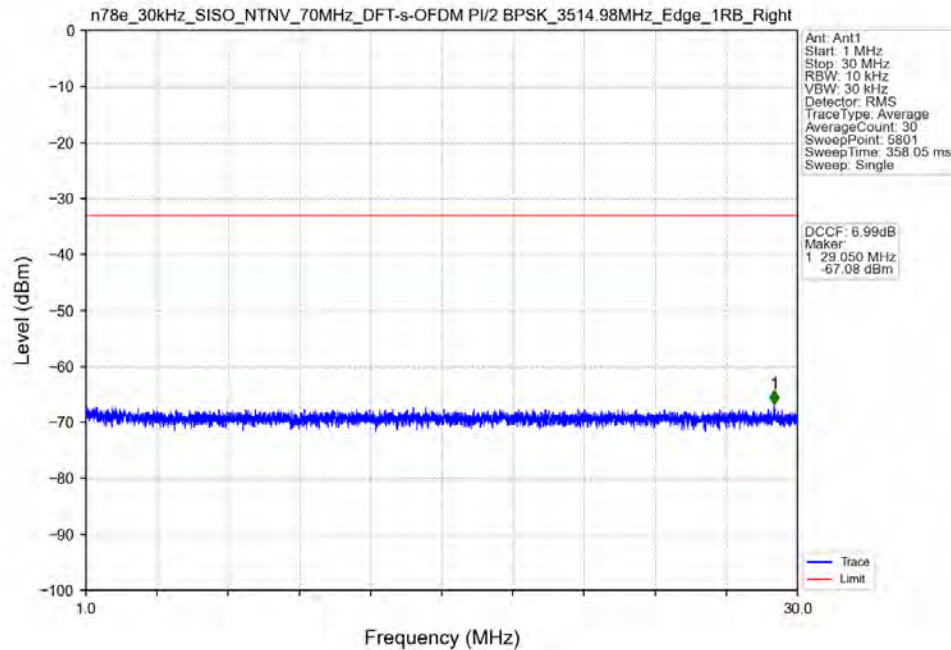


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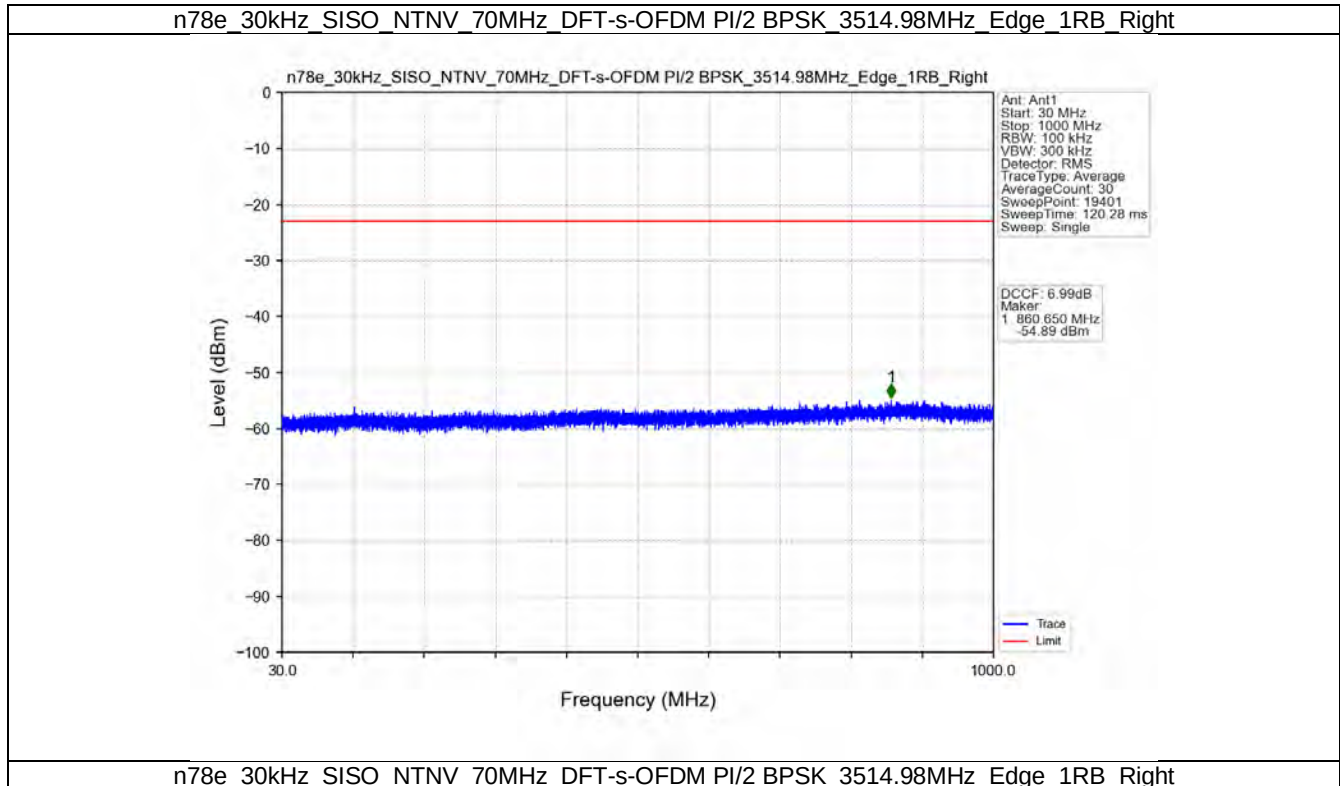


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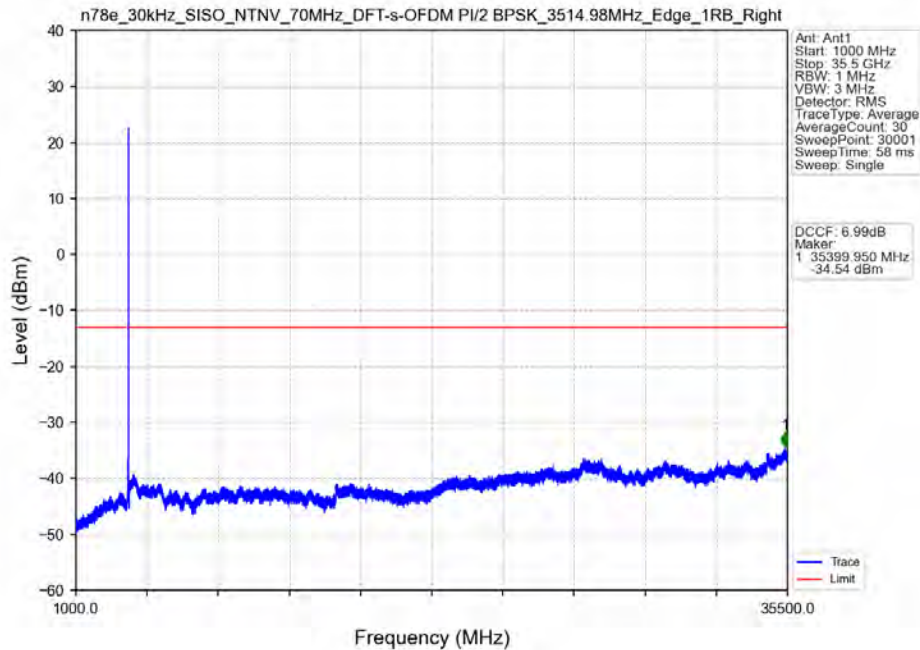


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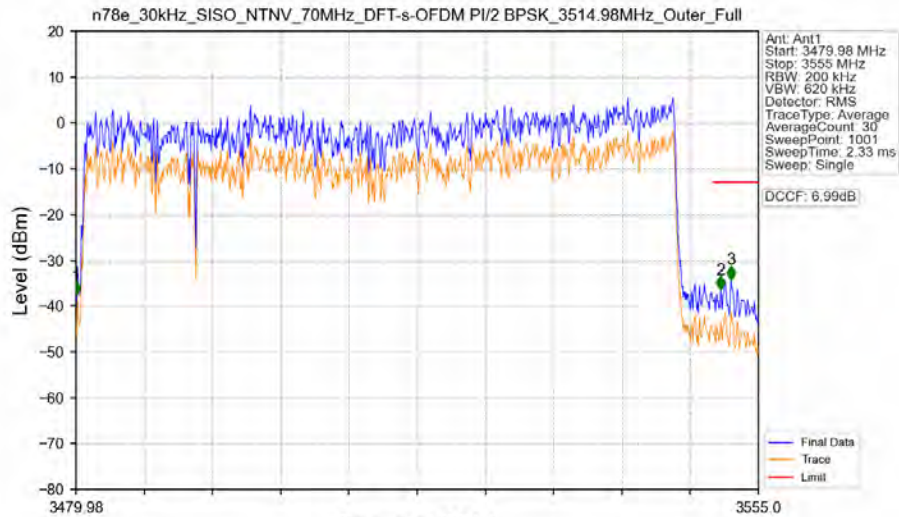
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n78e\_30kHz\_SISO\_NTNV\_70MHz\_DFT-s-OFDM PI/2 BPSK\_3514.98MHz\_Outer\_Full



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 3479.98     | 3549.98    | 0.2       | /      | 1          | 3479.980   | -37.67      | -13         | Pass   |
| 3549.98     | 3549.98    | 0.2       | /      | /          | /          | /           | /           | /      |
| 3549.98     | 3550.98    | 0.2       | /      | 2          | 3550.874   | -36.40      | -13         | Pass   |
| 3550.98     | 3554.98    | 0.5       | /      | 3          | 3551.999   | -34.23      | -13         | Pass   |

n78e\_30kHz\_SISO\_NTNV\_70MHz\_DFT-s-OFDM PI/2 BPSK\_3514.98MHz\_Inner\_1RB\_Right



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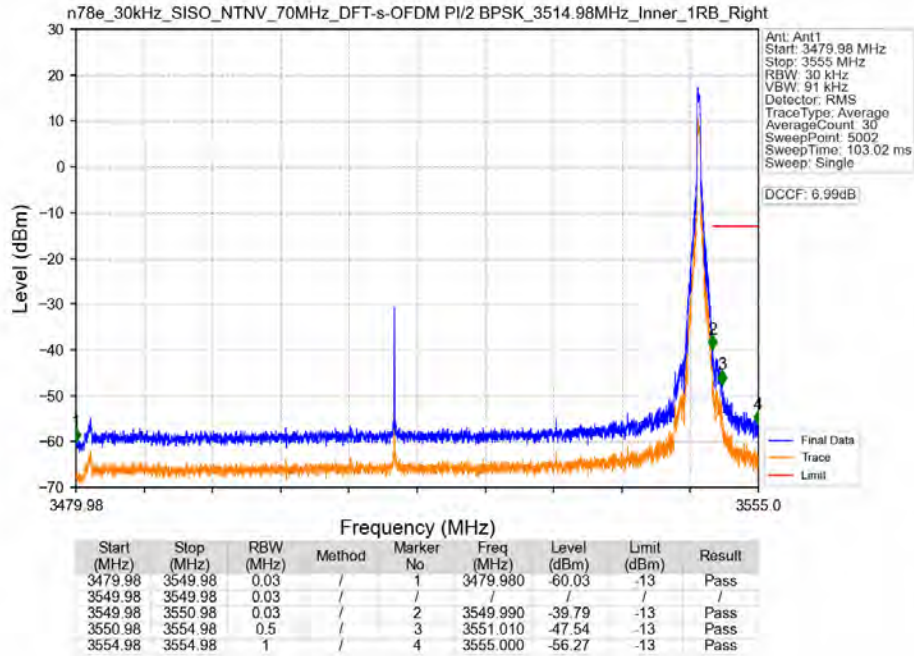


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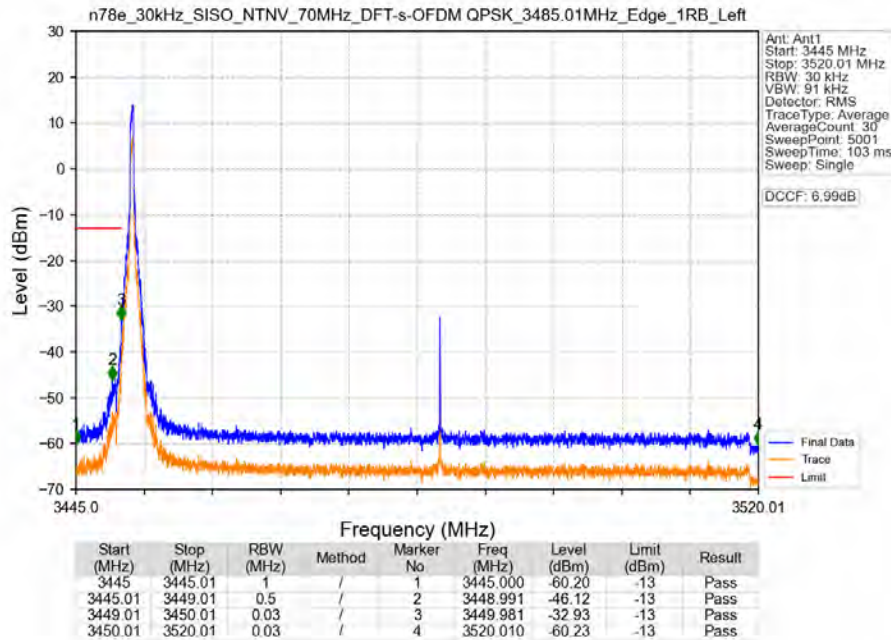
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n78e\_30kHz\_SISO\_NTNV\_70MHz\_DFT-s-OFDM\_QPSK\_3485.01MHz\_Edge\_1RB\_Left



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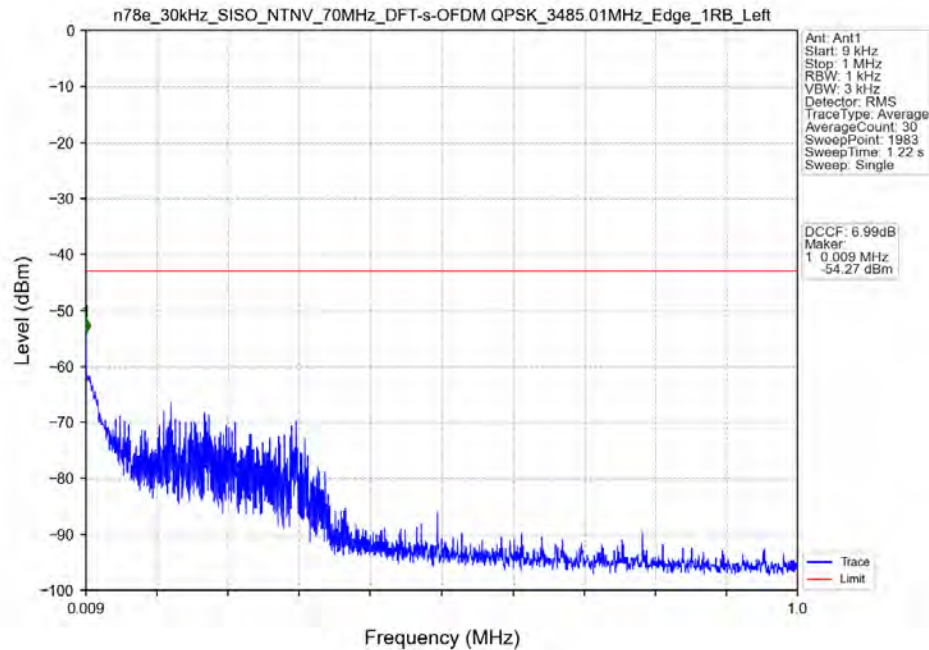


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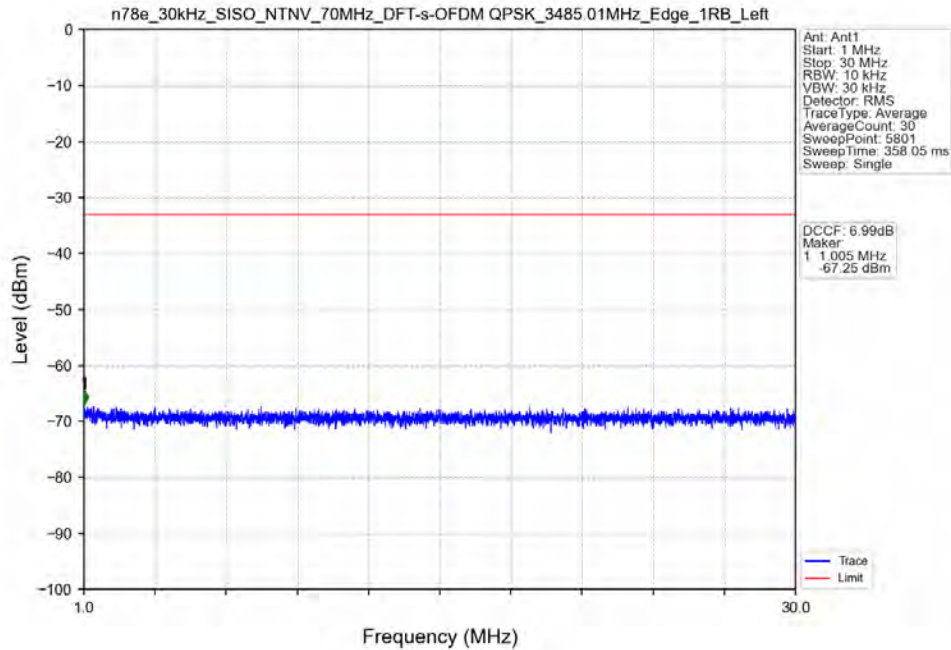
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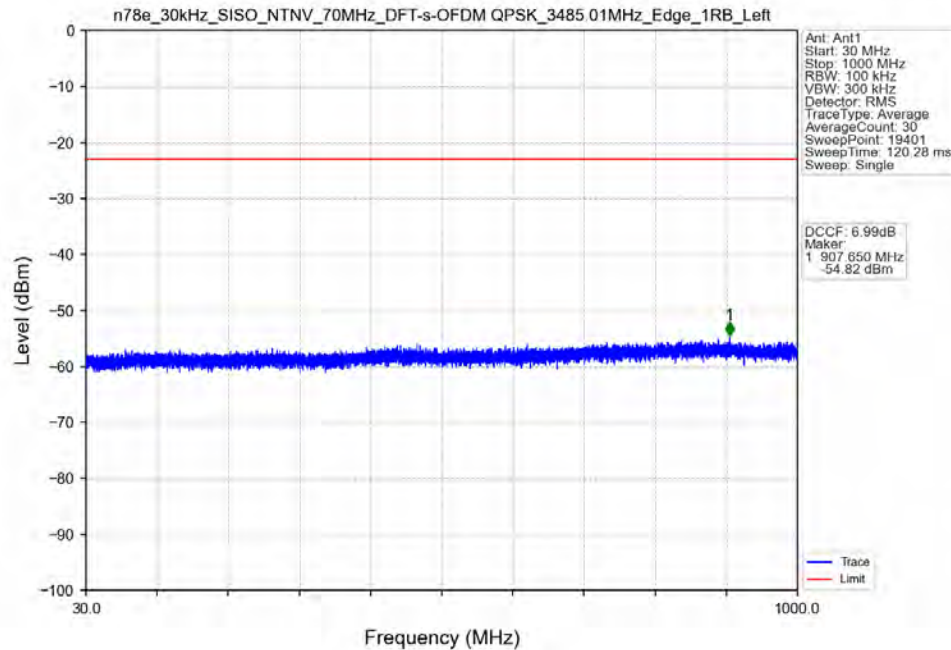


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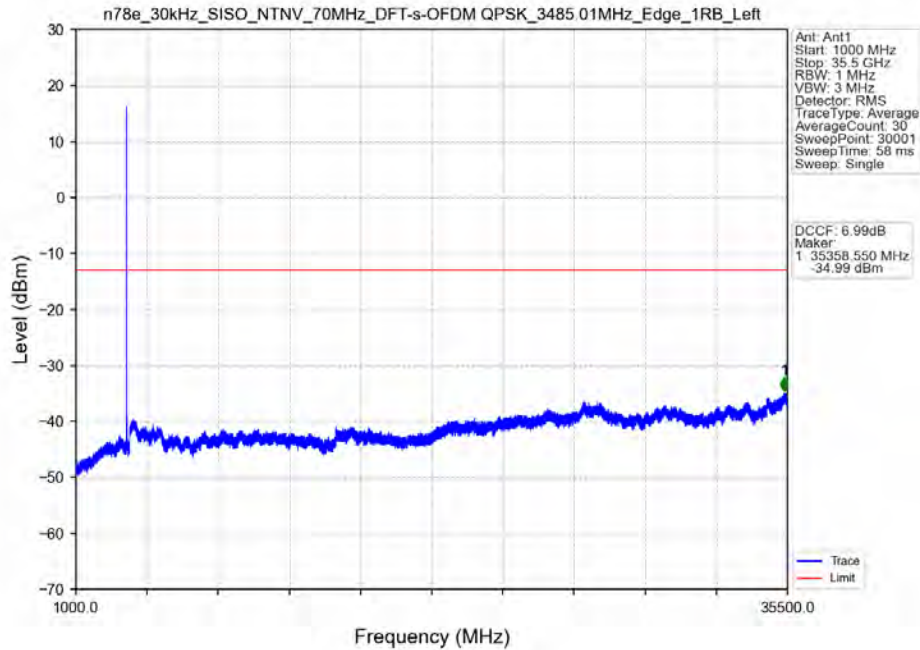
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n78e\_30kHz\_SISO\_NTNV\_70MHz\_DFT-s-OFDM QPSK\_3485.01MHz\_Outer\_Full



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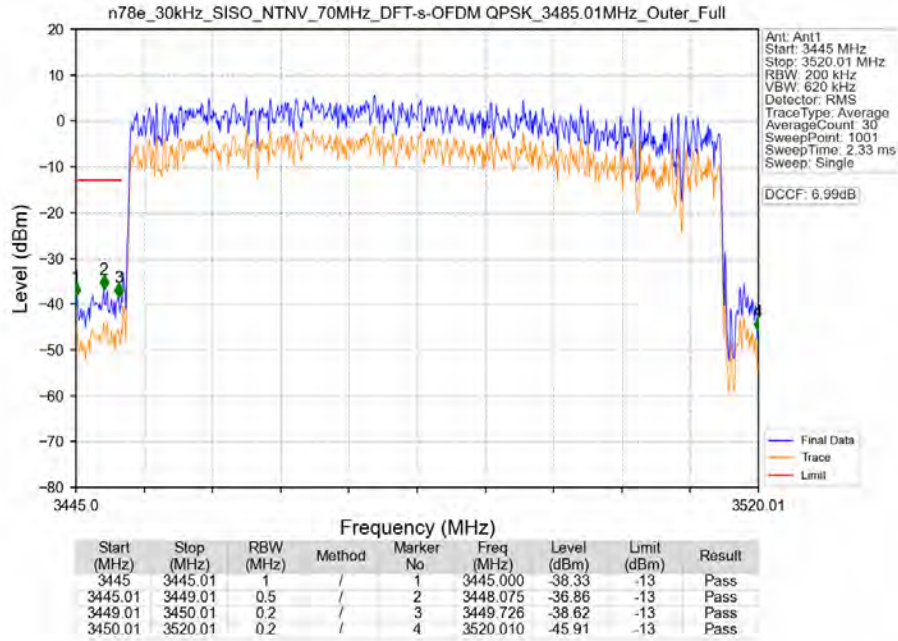


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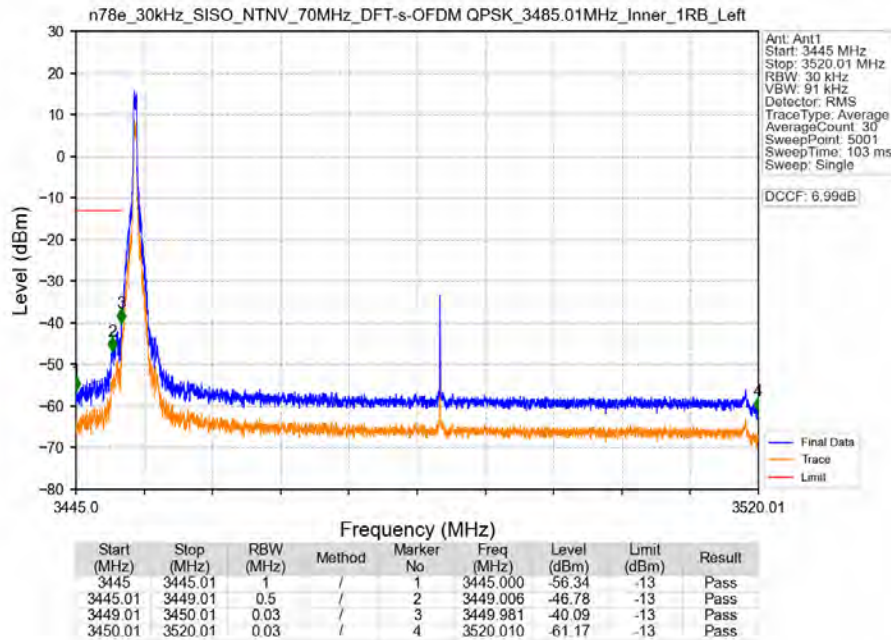
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n78e\_30kHz\_SISO\_NTNV\_70MHz\_DFT-s-OFDM\_QPSK\_3500.01MHz\_Edge\_1RB\_Left



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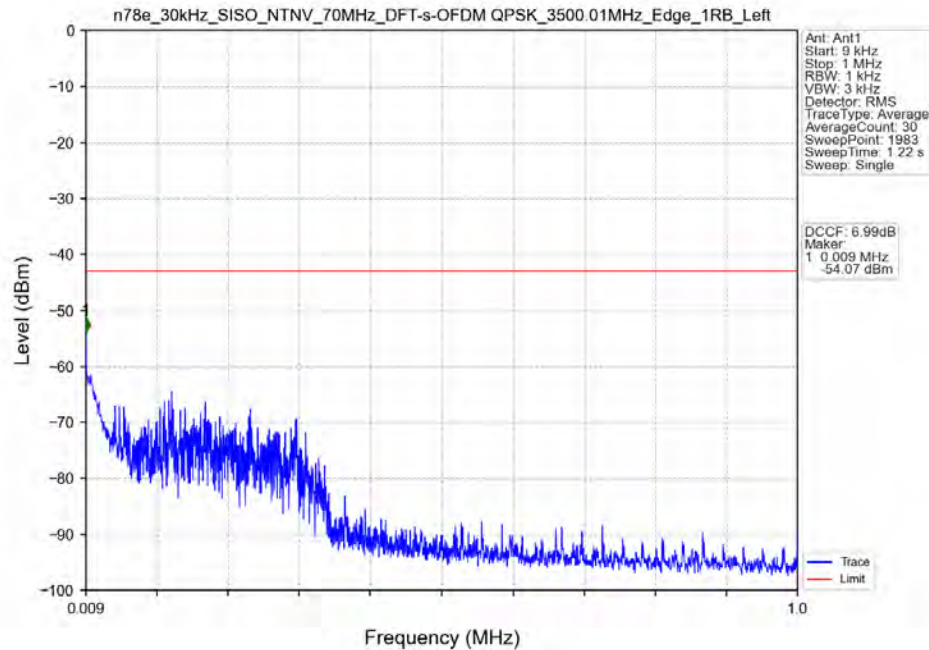


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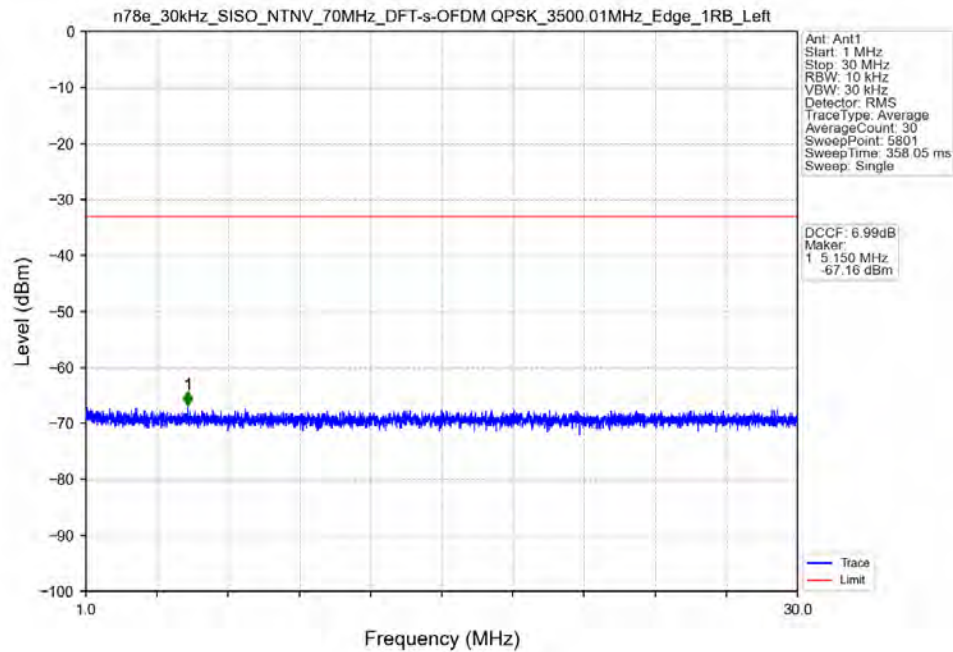
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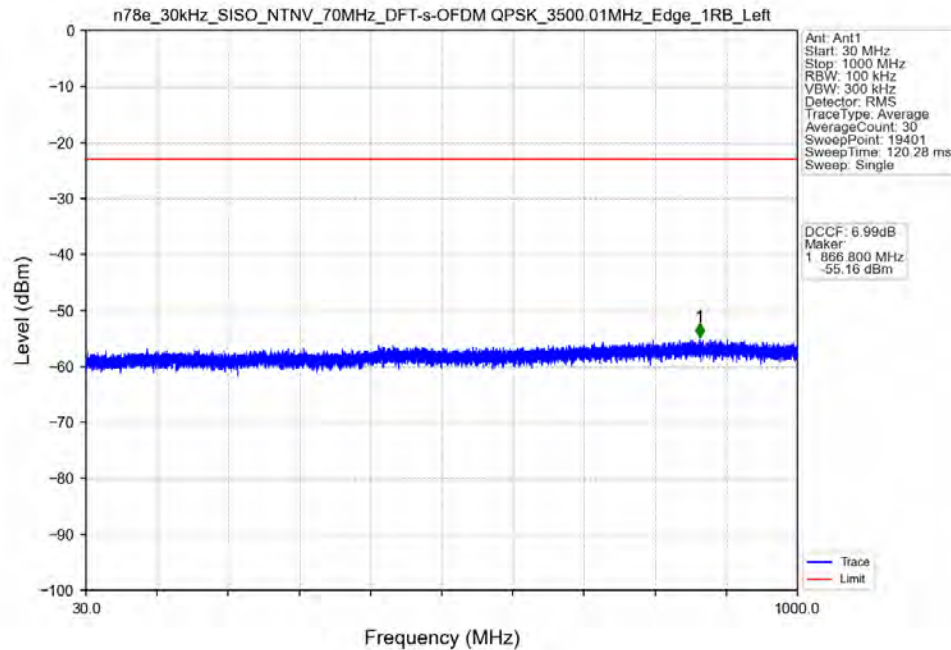


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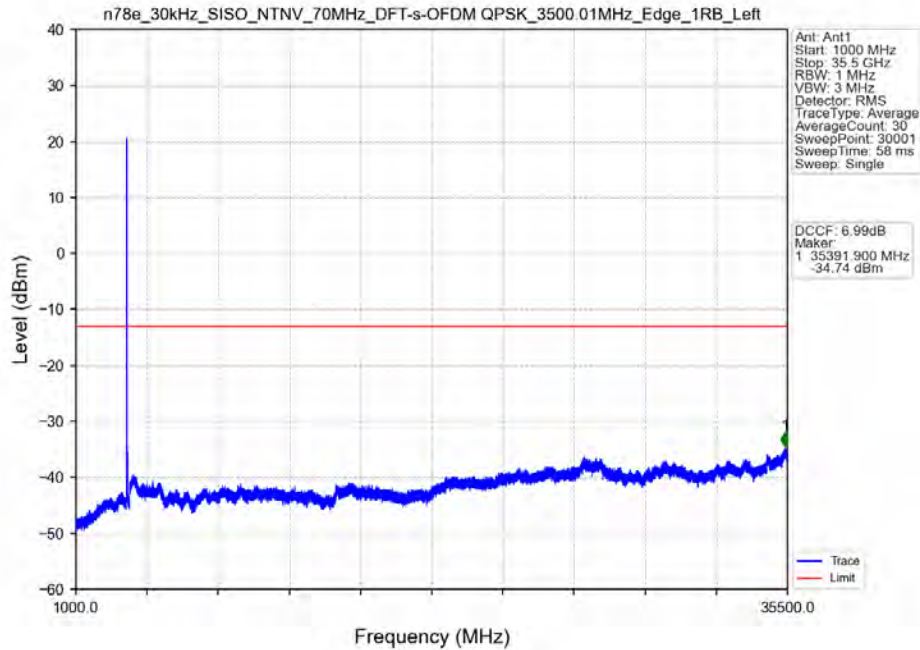
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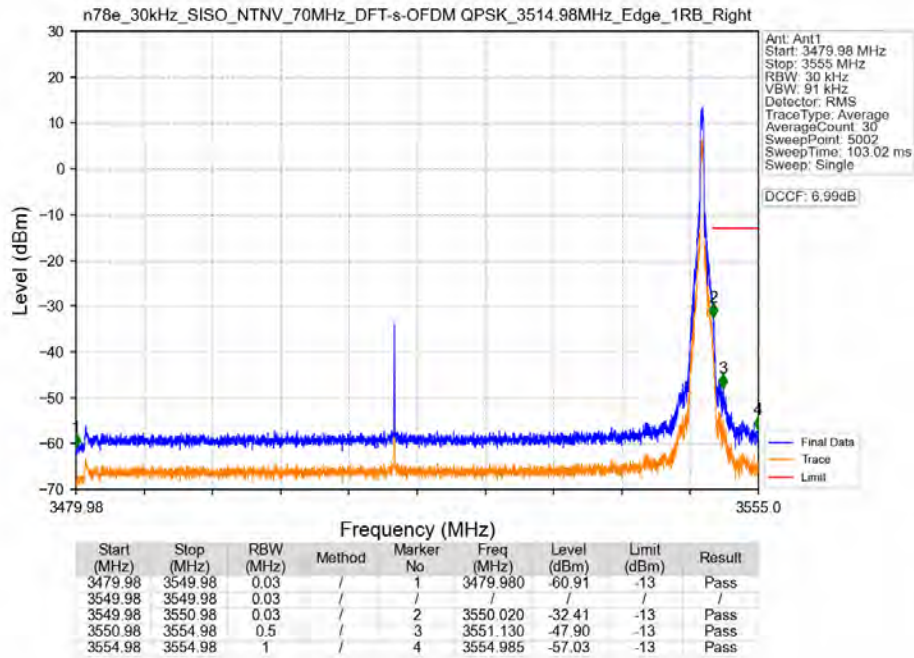


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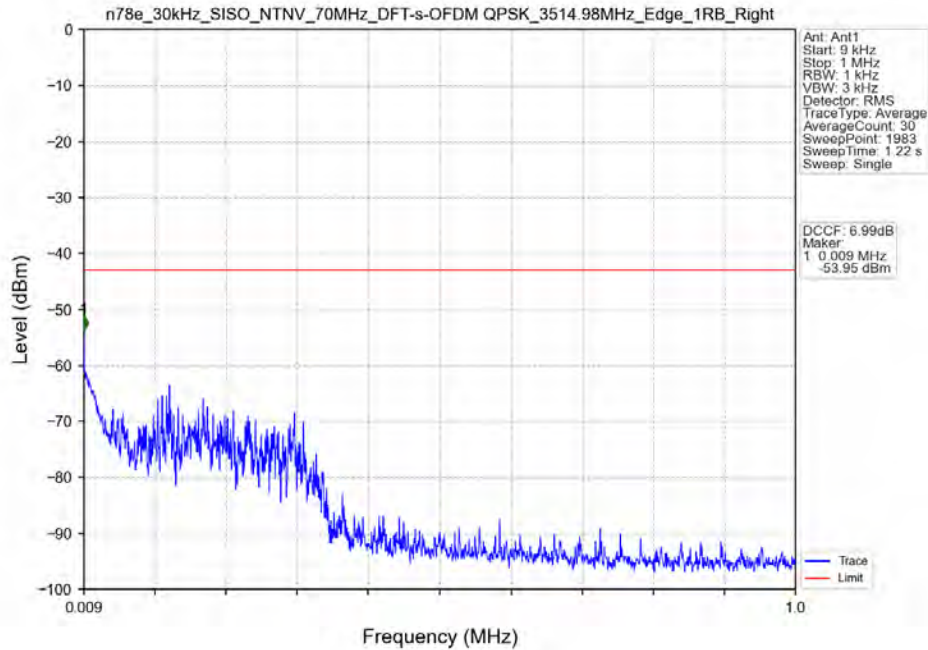
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n78e\_30kHz\_SISO\_NTNV\_70MHz\_DFT-s-OFDM\_QPSK\_3514.98MHz\_Edge\_1RB\_Right



n78e\_30kHz\_SISO\_NTNV\_70MHz\_DFT-s-OFDM\_QPSK\_3514.98MHz\_Edge\_1RB\_Right



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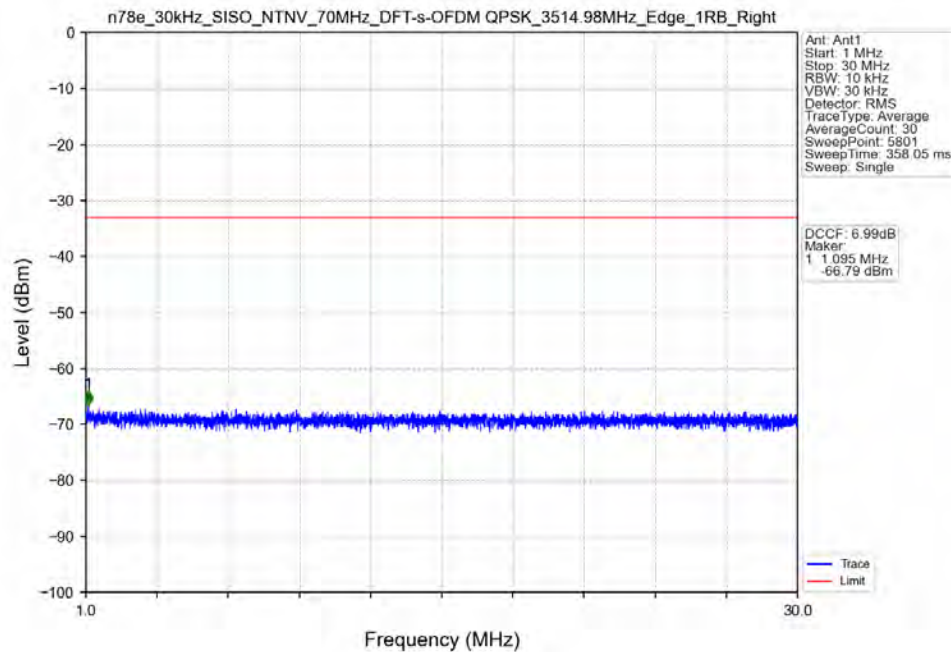


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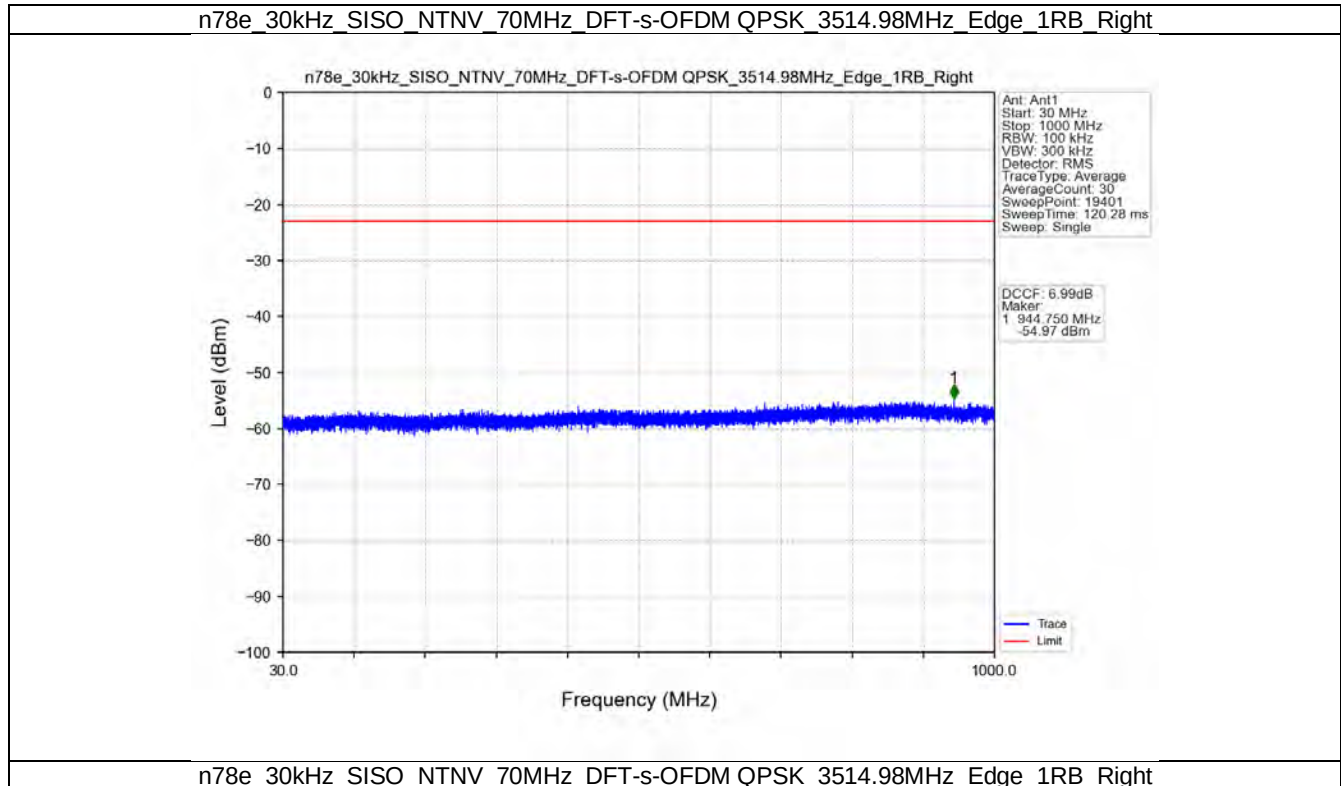


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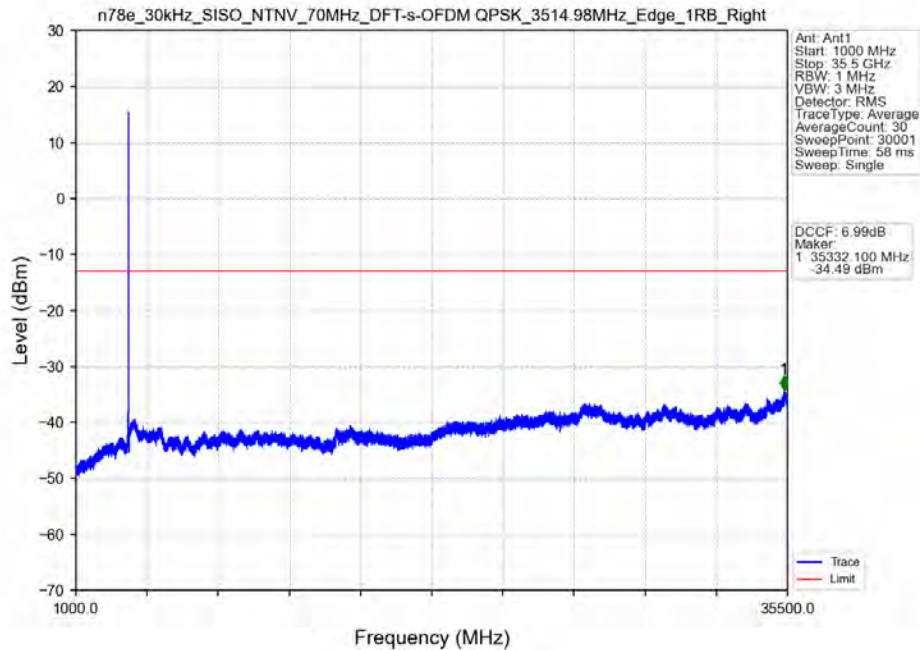


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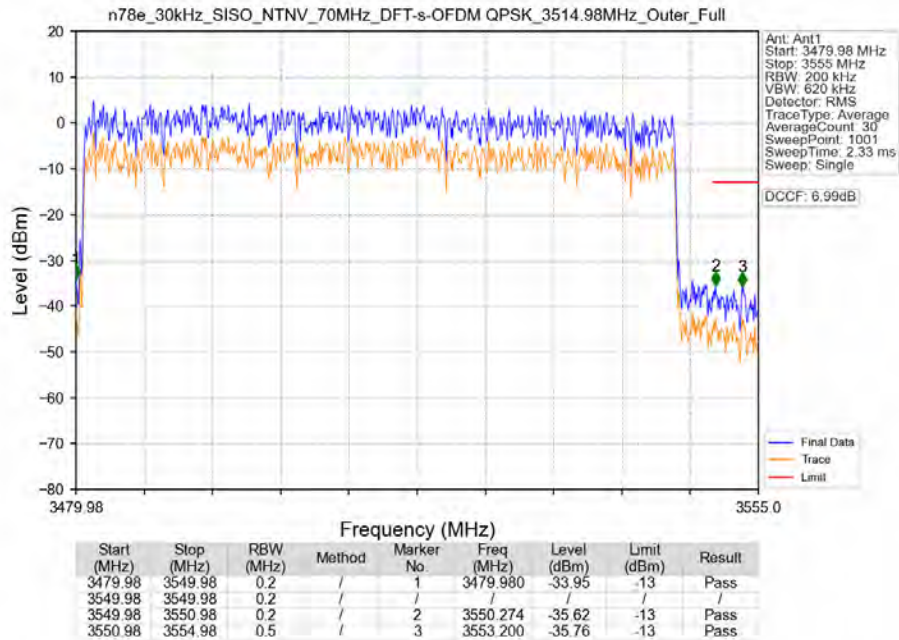
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n78e\_30kHz\_SISO\_NTNV\_70MHz\_DFT-s-OFDM\_QPSK\_3514.98MHz\_Inner\_1RB\_Right



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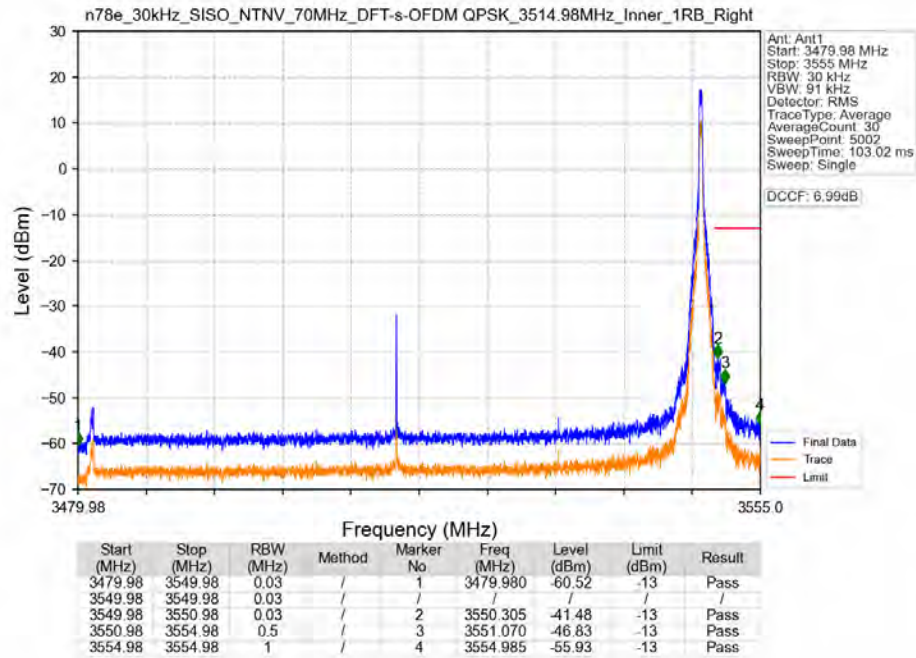


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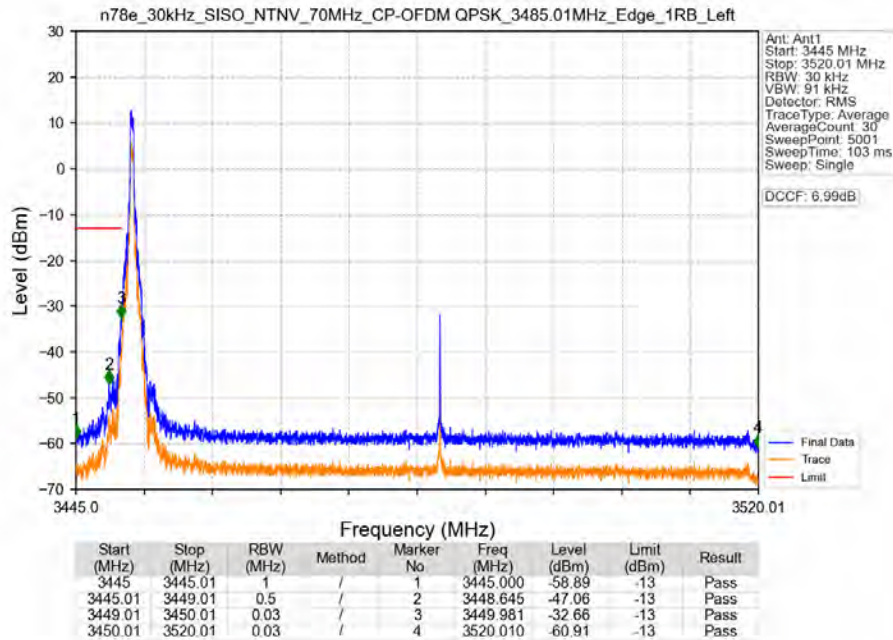
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n78e\_30kHz\_SISO\_NTNV\_70MHz\_CP-OFDM\_QPSK\_3485.01MHz\_Edge\_1RB\_Left



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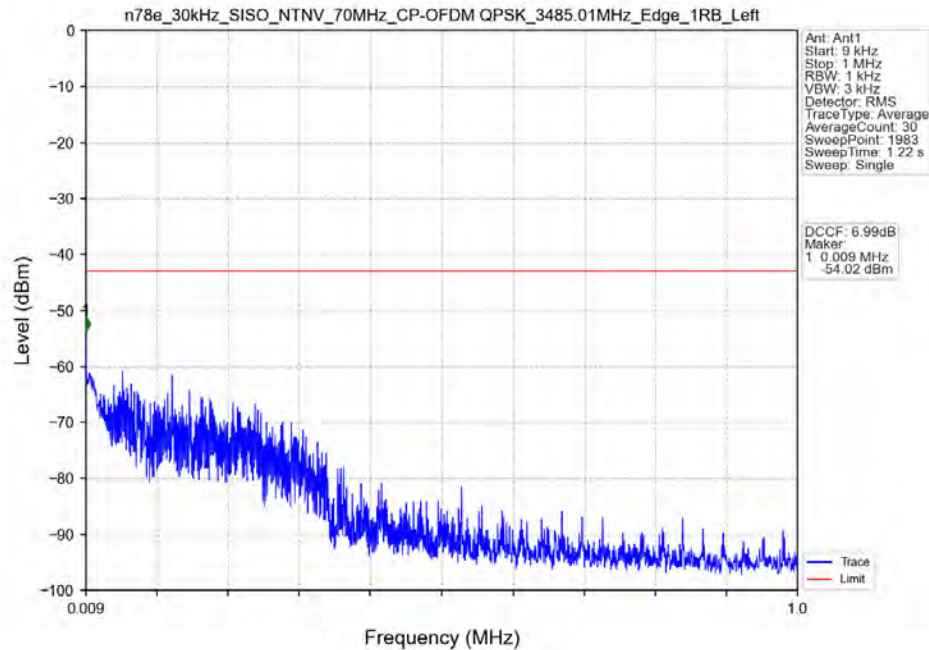


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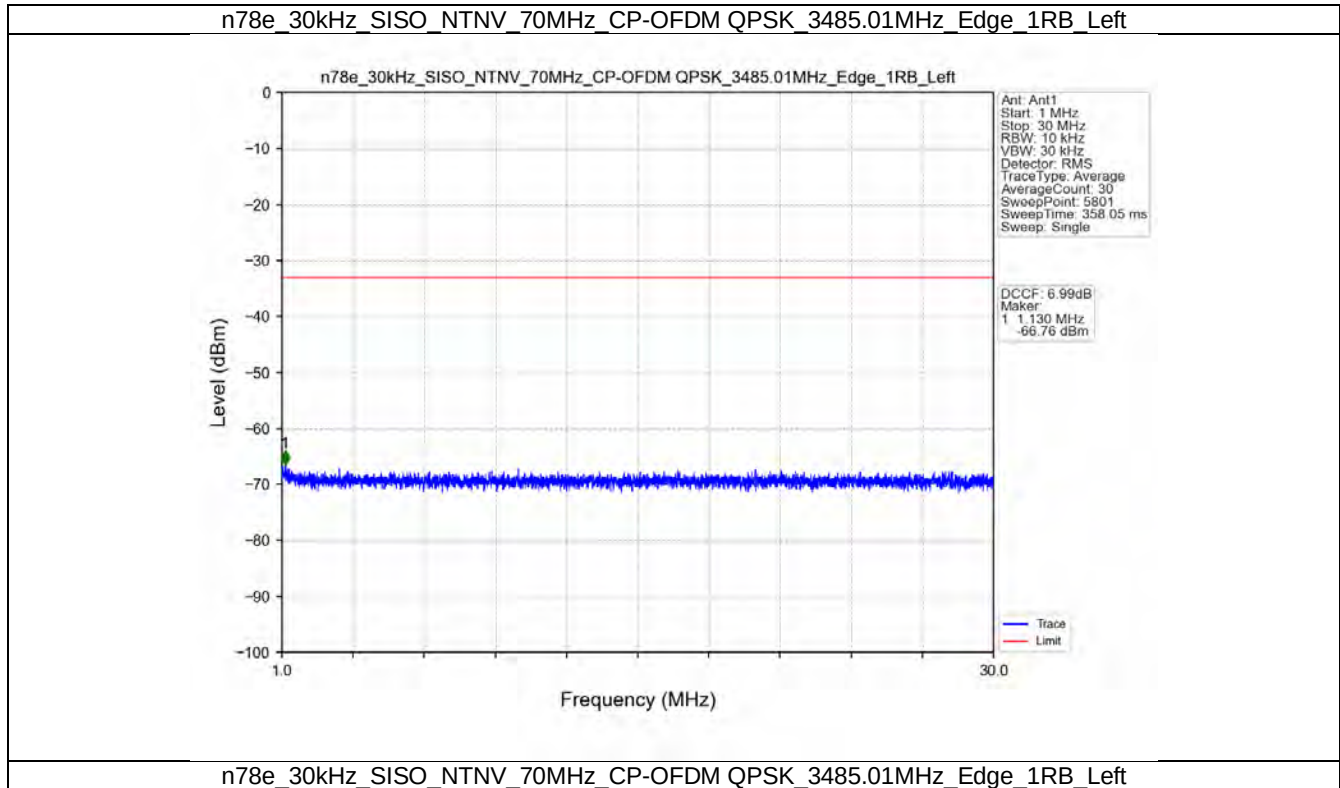


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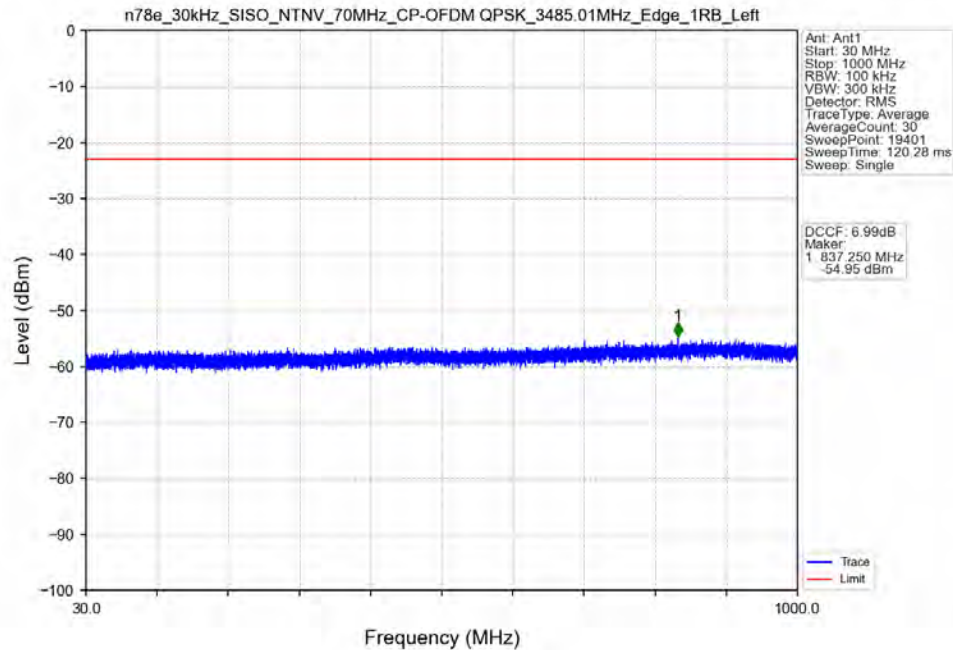


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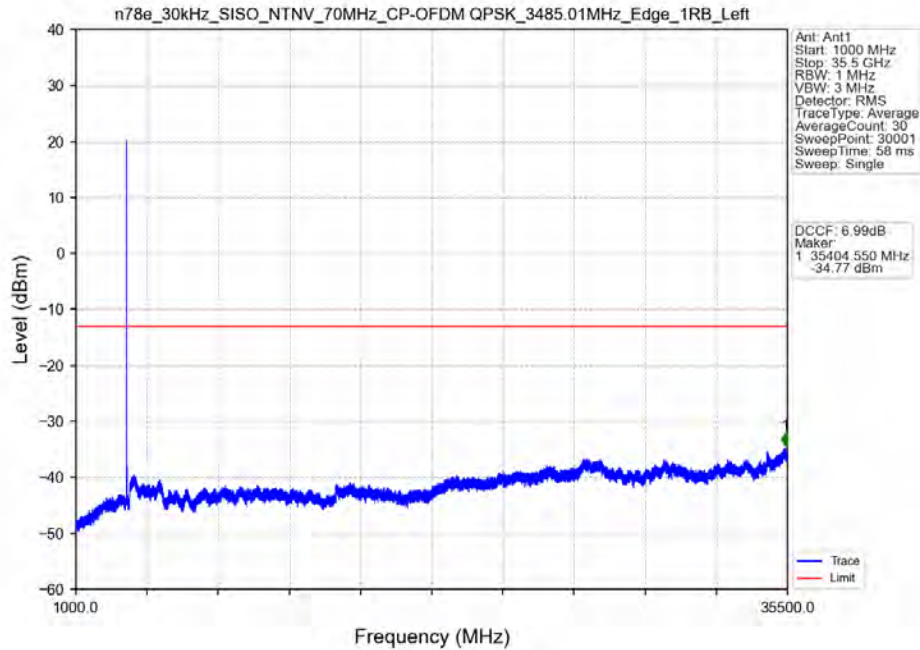
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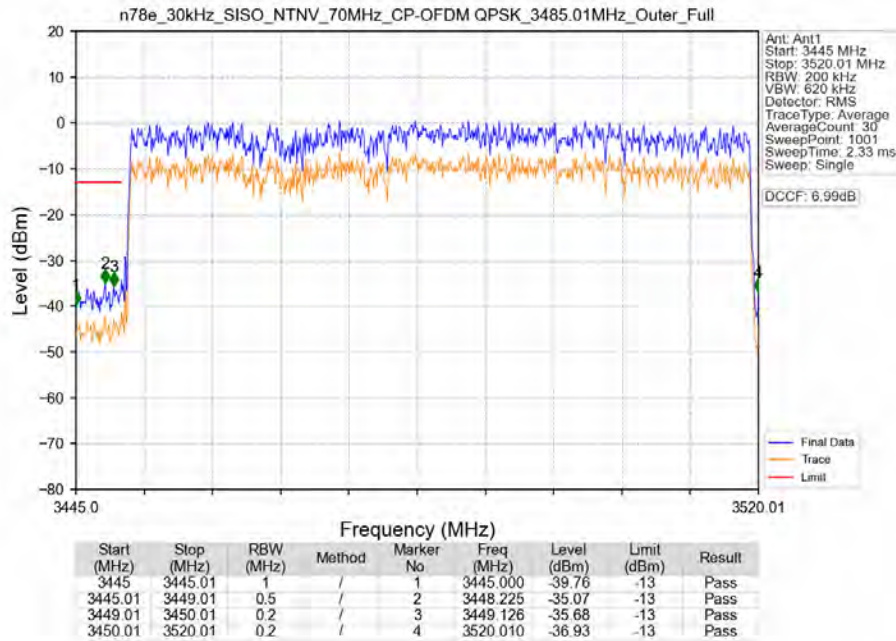


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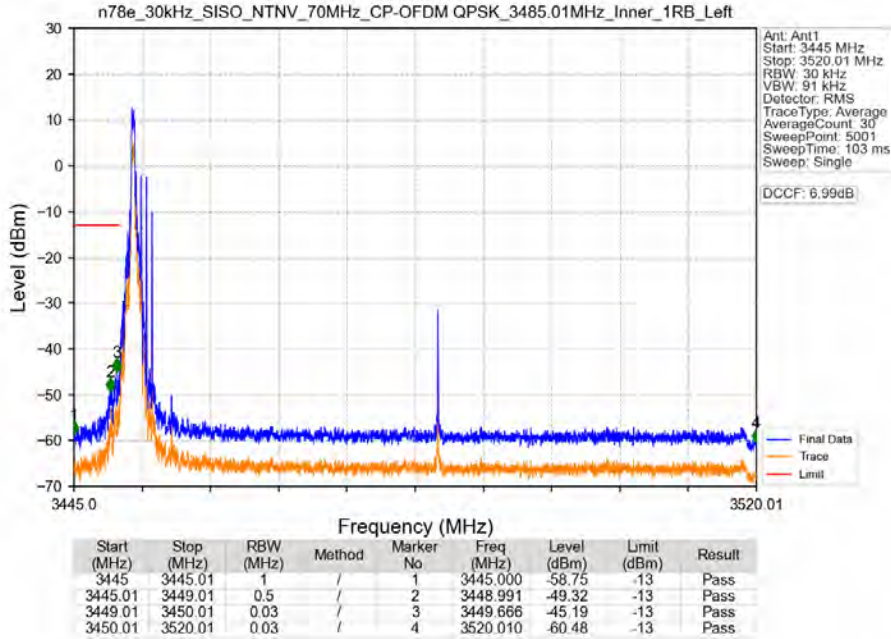
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n78e\_30kHz\_SISO\_NTNV\_70MHz\_CP-OFDM QPSK\_3500.01MHz\_Edge\_1RB\_Left



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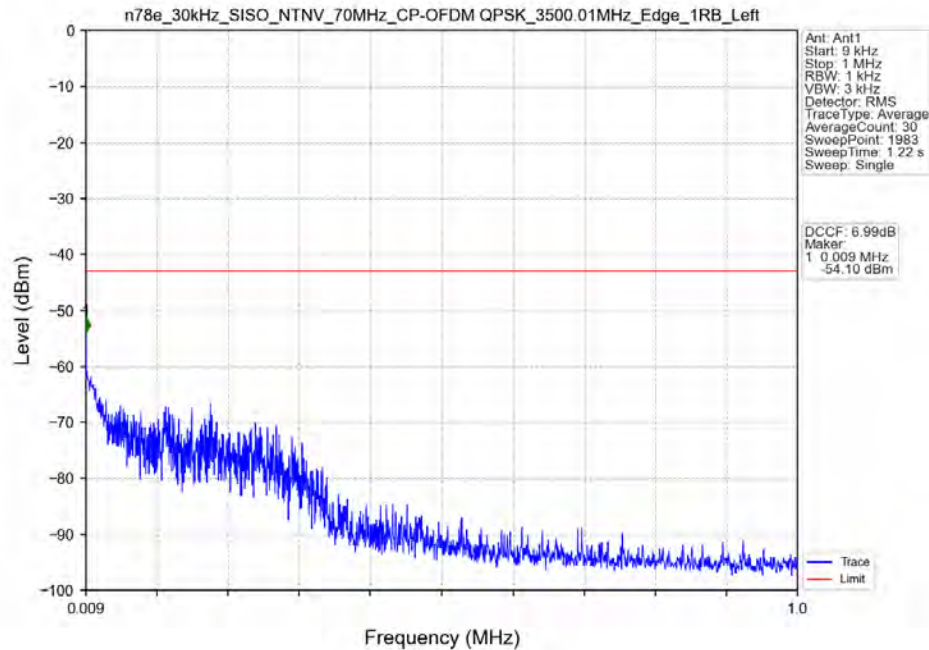


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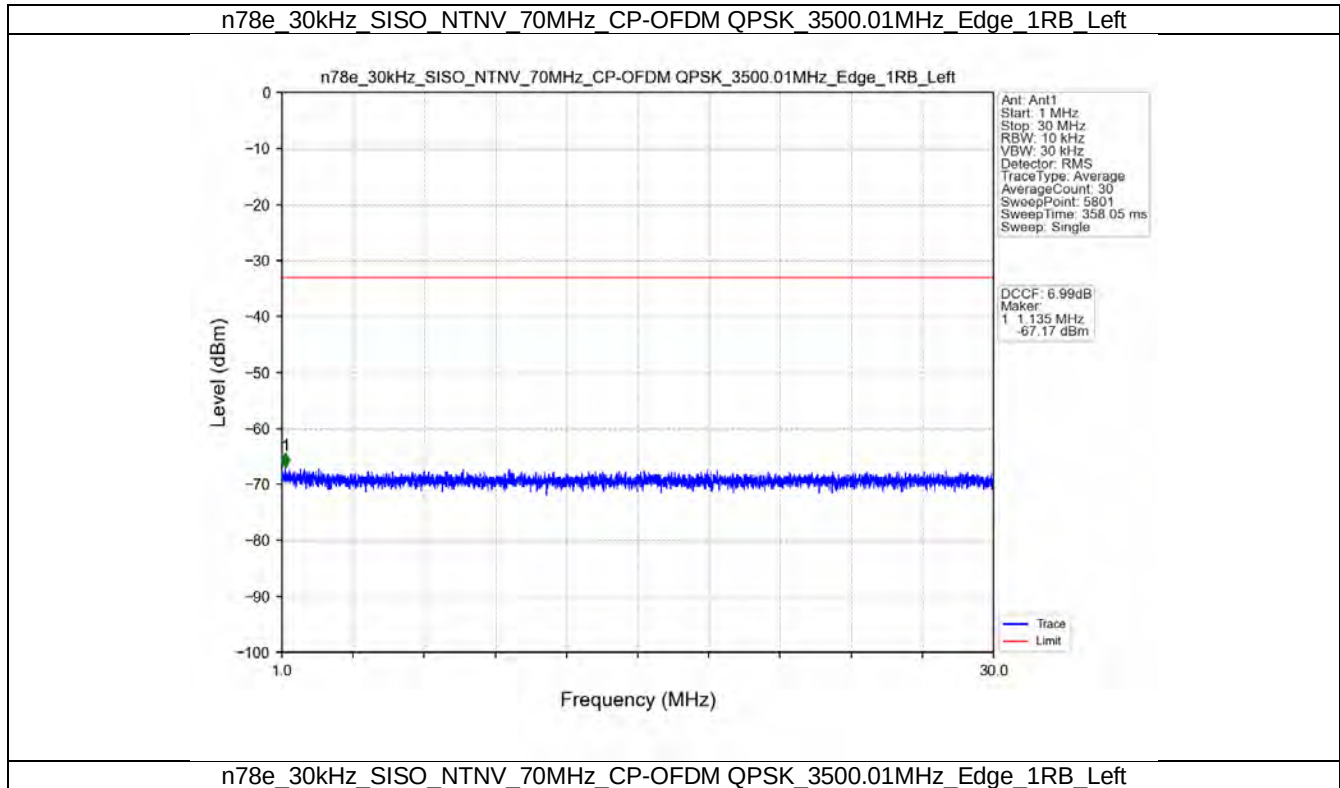


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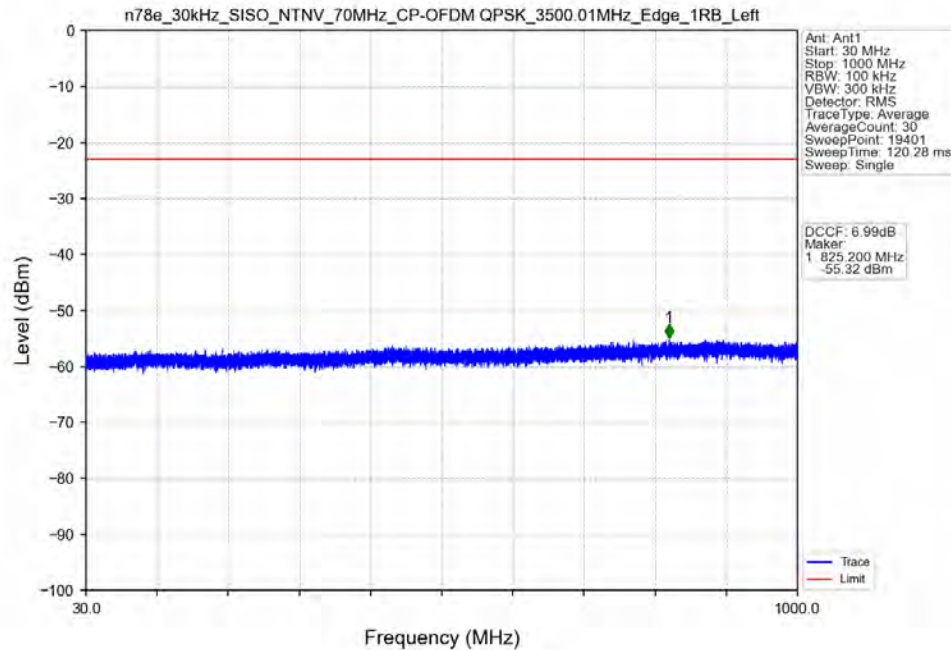


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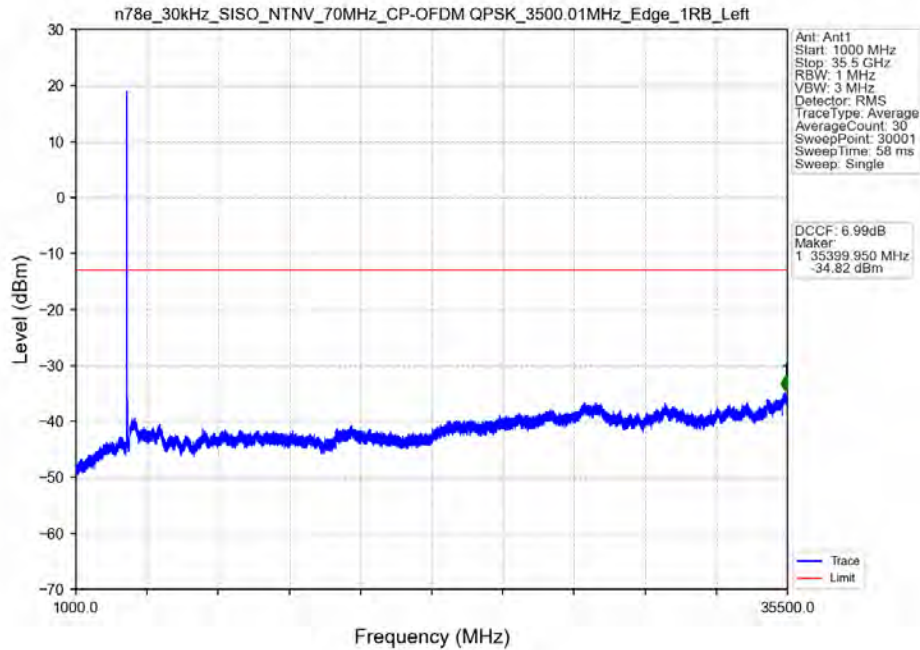
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n78e\_30kHz\_SISO\_NTNV\_70MHz\_CP-OFDM QPSK\_3500.01MHz\_Edge\_1RB\_Left



n78e\_30kHz\_SISO\_NTNV\_70MHz\_CP-OFDM QPSK\_3514.98MHz\_Edge\_1RB\_Right



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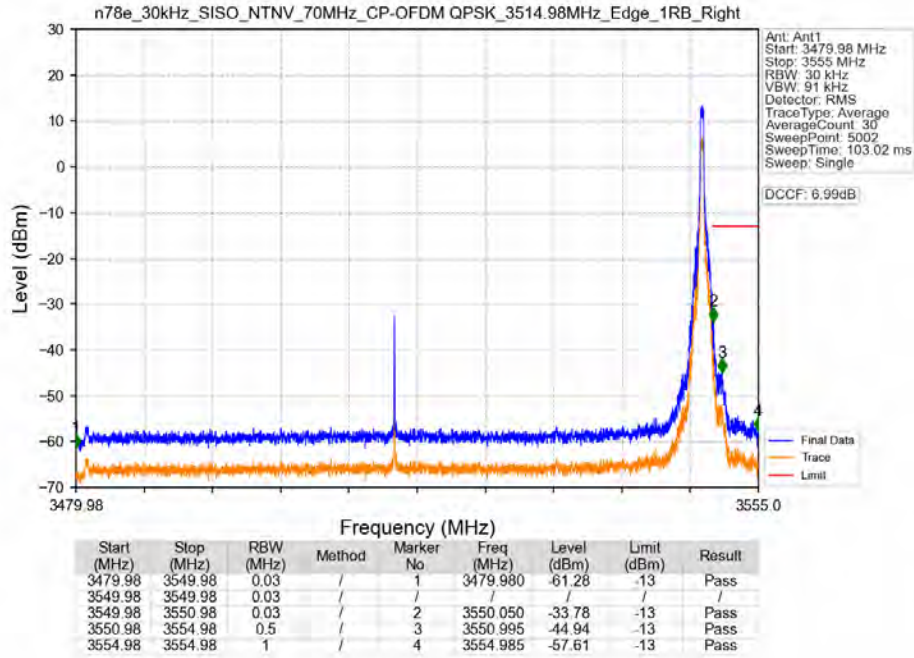


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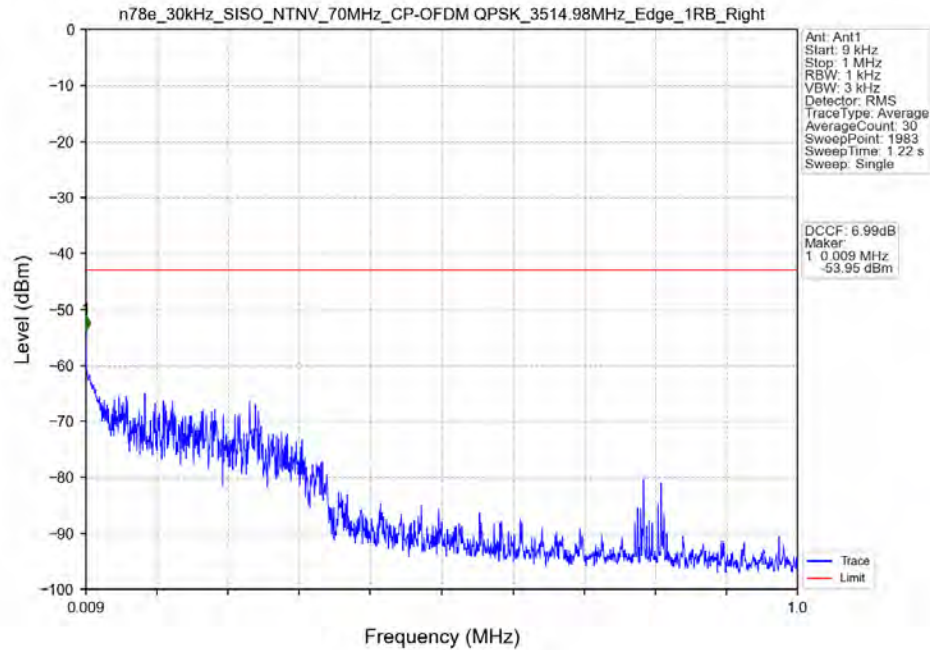
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n78e\_30kHz\_SISO\_NTNV\_70MHz\_CP-OFDM QPSK\_3514.98MHz\_Edge\_1RB\_Right



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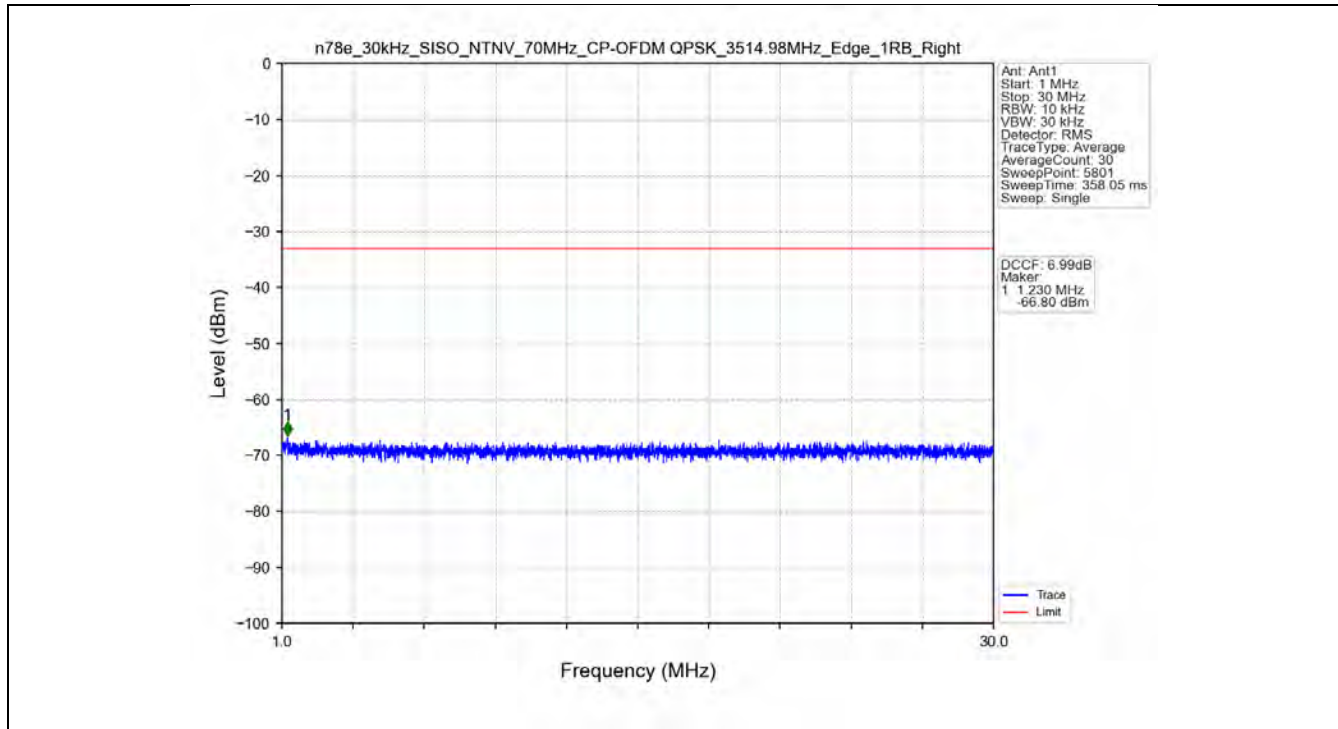


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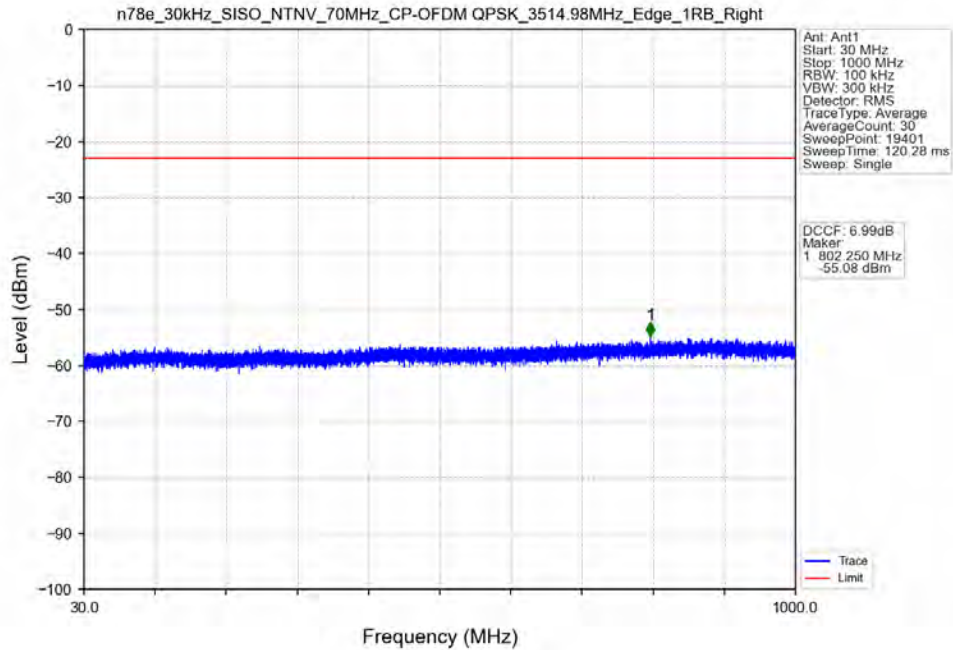
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n78e\_30kHz\_SISO\_NTNV\_70MHz\_CP-OFDM QPSK\_3514.98MHz\_Edge\_1RB\_Right



n78e\_30kHz\_SISO\_NTNV\_70MHz\_CP-OFDM QPSK\_3514.98MHz\_Edge\_1RB\_Right



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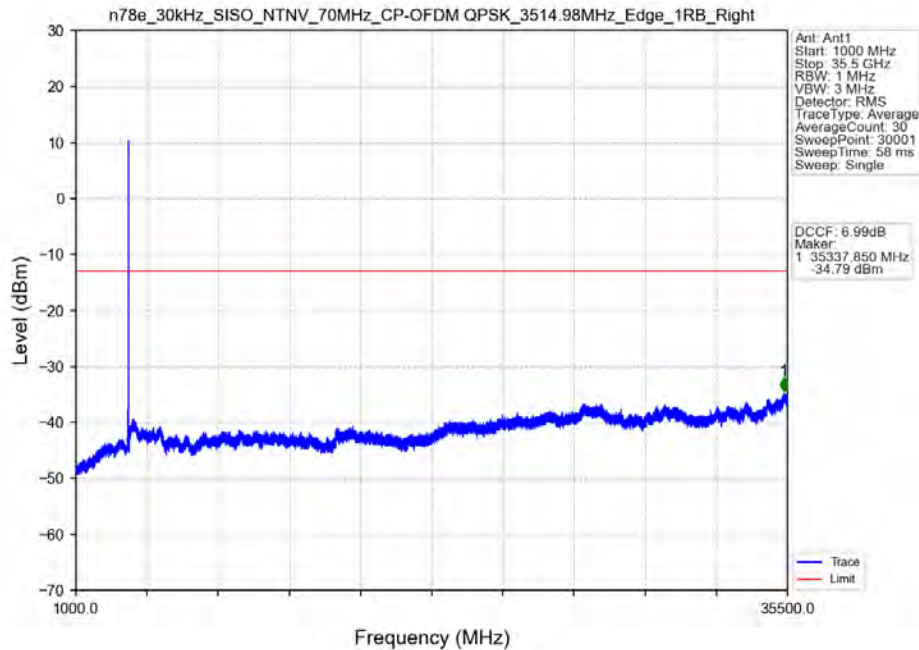


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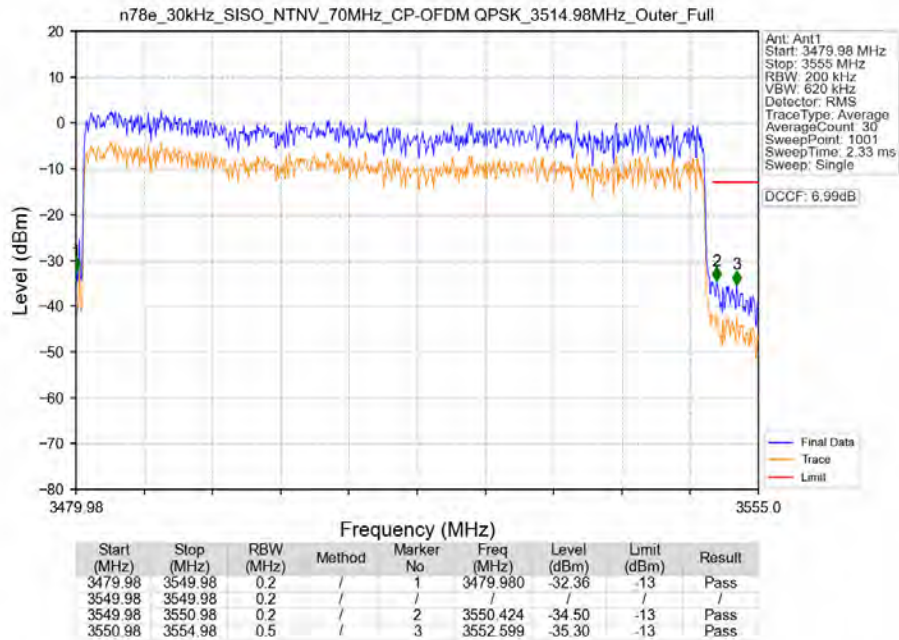
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n78e\_30kHz\_SISO\_NTNV\_70MHz\_CP-OFDM\_QPSK\_3514.98MHz\_Outer\_Full



n78e\_30kHz\_SISO\_NTNV\_70MHz\_CP-OFDM\_QPSK\_3514.98MHz\_Inner\_1RB\_Right



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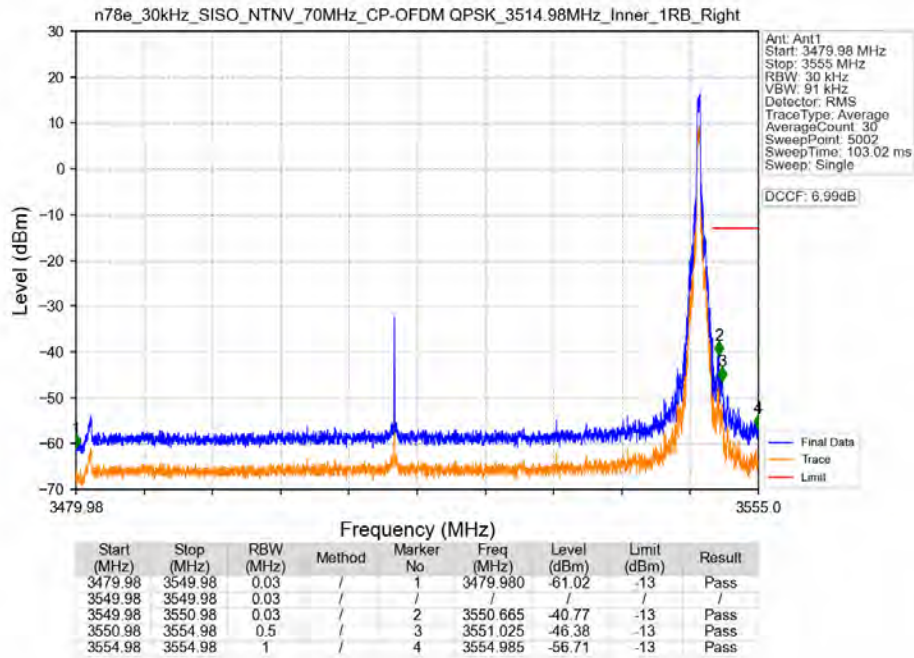


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## 5.7 30k\_SISO\_80MHz\_NTNV

### 5.7.1 Test Result

| 5G NR n78e SCS=30kHz SISO 80MHz NTN |                 |                 |                     |                     |     |       |         |      |
|-------------------------------------|-----------------|-----------------|---------------------|---------------------|-----|-------|---------|------|
| Modulation                          | Frequency (MHz) | RB Allocation   | Spurious Emission   |                     |     |       | Verdict |      |
|                                     |                 |                 | Ant1                | Ant4                | Sum | Limit |         |      |
| DFT-s-OFDM PI/2 BPSK                | 3490.02         | Edge 1RB Left   | Refer To Test Graph |                     |     |       | Pass    |      |
|                                     |                 | Outer Full      | Refer To Test Graph |                     |     |       | Pass    |      |
|                                     |                 | Inner 1RB Left  | Refer To Test Graph |                     |     |       | Pass    |      |
|                                     | 3500.01         | Edge 1RB Left   | Refer To Test Graph |                     |     |       | Pass    |      |
|                                     |                 | 3510            | Edge 1RB Right      | Refer To Test Graph |     |       |         | Pass |
|                                     |                 |                 | Outer Full          | Refer To Test Graph |     |       |         | Pass |
| DFT-s-OFDM QPSK                     | 3490.02         |                 | Inner 1RB Right     | Refer To Test Graph |     |       |         | Pass |
|                                     |                 | Edge 1RB Left   | Refer To Test Graph |                     |     |       | Pass    |      |
|                                     |                 | Outer Full      | Refer To Test Graph |                     |     |       | Pass    |      |
|                                     | 3500.01         | Inner 1RB Left  | Refer To Test Graph |                     |     |       | Pass    |      |
|                                     |                 | 3510            | Edge 1RB Left       | Refer To Test Graph |     |       |         | Pass |
|                                     |                 |                 | Edge 1RB Right      | Refer To Test Graph |     |       |         | Pass |
| CP-OFDM QPSK                        | 3490.02         |                 | Outer Full          | Refer To Test Graph |     |       |         | Pass |
|                                     |                 | Inner 1RB Right | Refer To Test Graph |                     |     |       | Pass    |      |
|                                     |                 | Edge 1RB Left   | Refer To Test Graph |                     |     |       | Pass    |      |
|                                     | 3500.01         | Outer Full      | Refer To Test Graph |                     |     |       | Pass    |      |
|                                     |                 | 3510            | Edge 1RB Left       | Refer To Test Graph |     |       |         | Pass |
|                                     |                 |                 | Edge 1RB Right      | Refer To Test Graph |     |       |         | Pass |



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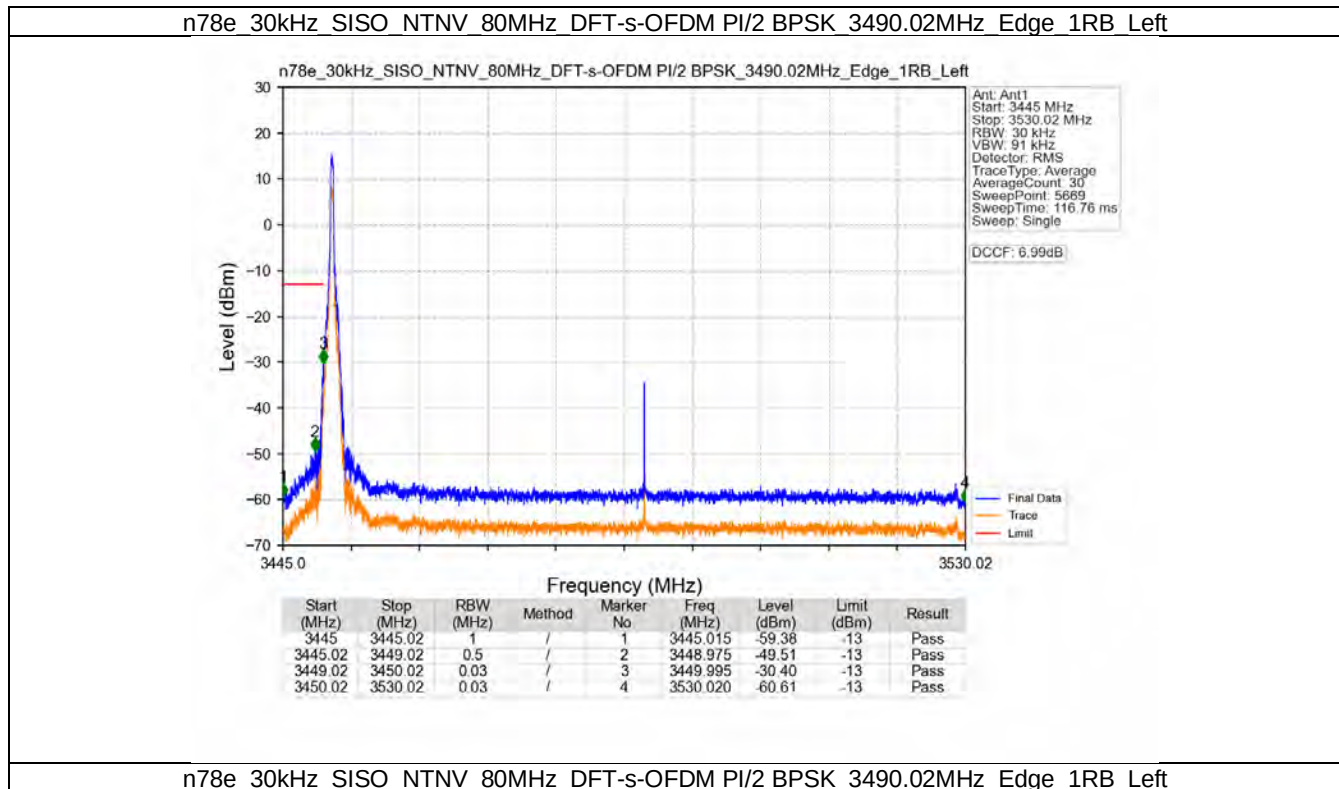
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## 5.7.2 Test Graph



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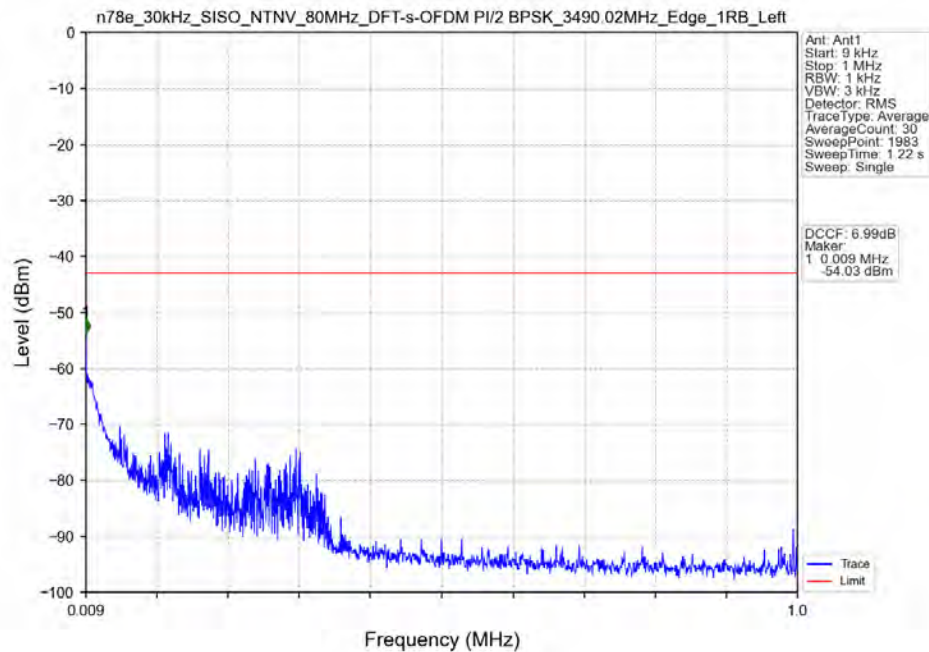


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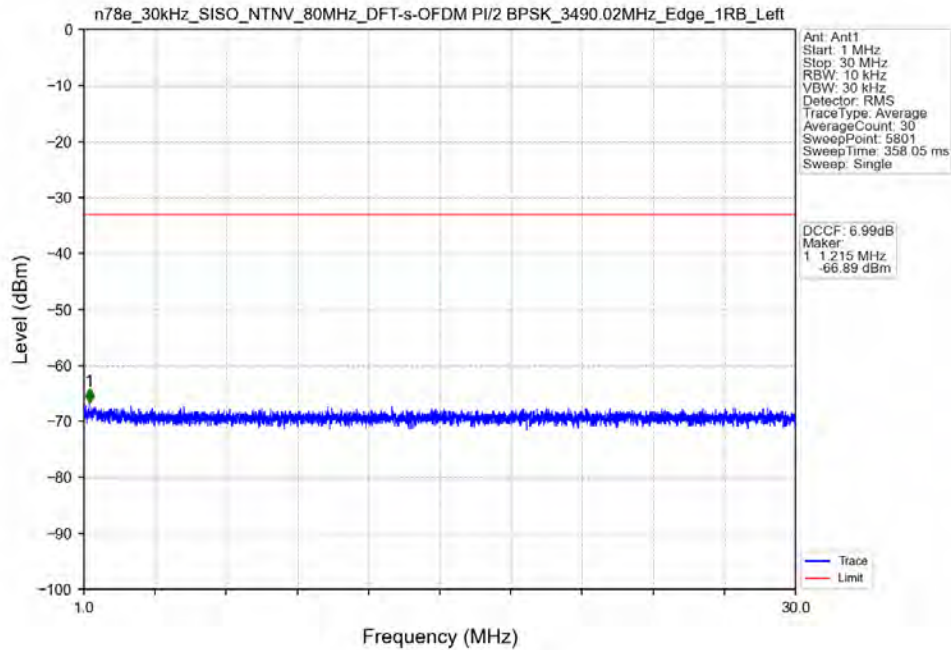
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n78e\_30kHz\_SISO\_NTNV\_80MHz\_DFT-s-OFDM PI/2 BPSK\_3490.02MHz\_Edge\_1RB\_Left



n78e\_30kHz\_SISO\_NTNV\_80MHz\_DFT-s-OFDM PI/2 BPSK\_3490.02MHz\_Edge\_1RB\_Left



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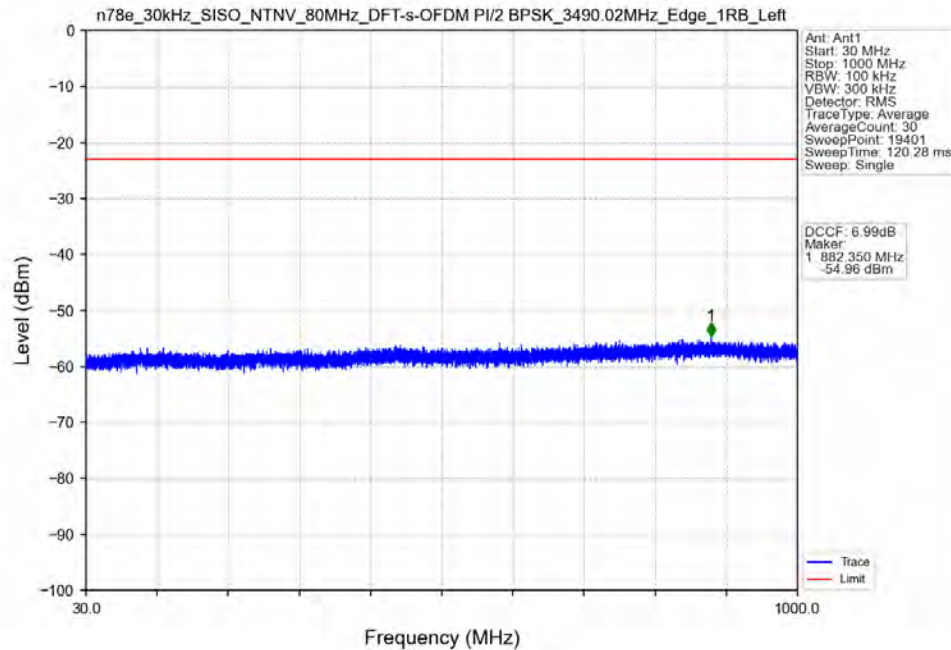


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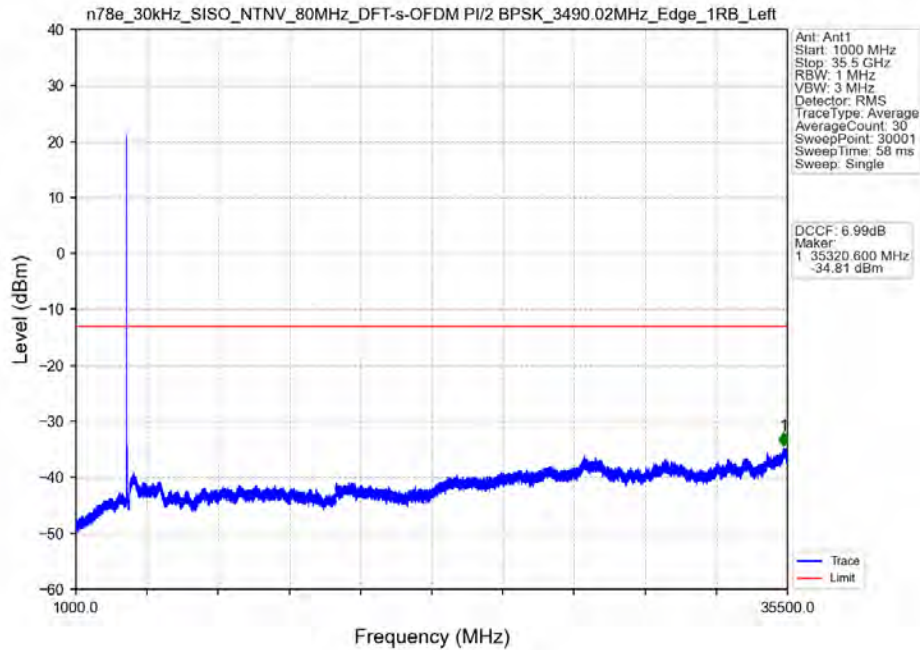
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n78e\_30kHz\_SISO\_NTNV\_80MHz\_DFT-s-OFDM PI/2 BPSK\_3490.02MHz\_Edge\_1RB\_Left



n78e\_30kHz\_SISO\_NTNV\_80MHz\_DFT-s-OFDM PI/2 BPSK\_3490.02MHz\_Outer\_Full



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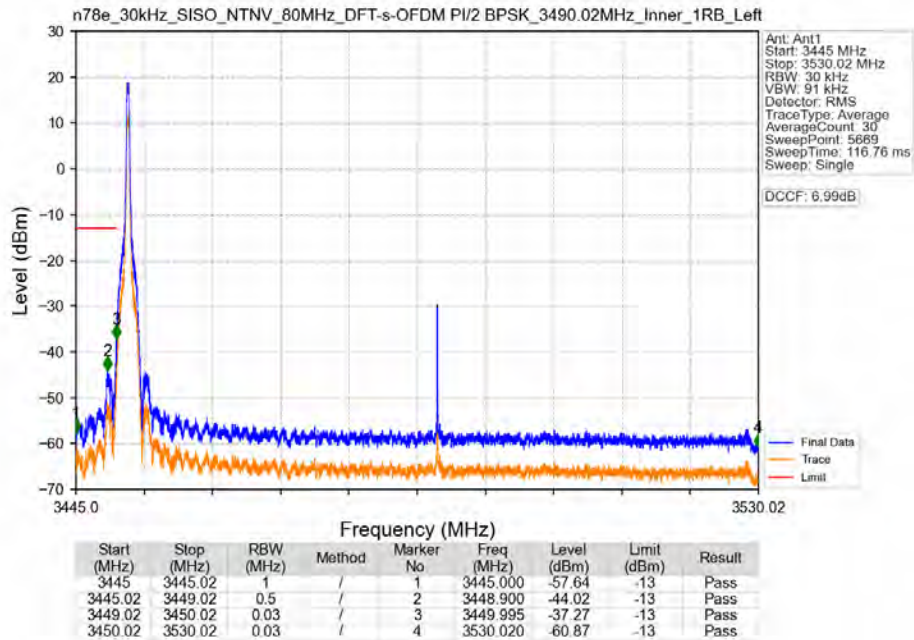
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n78e\_30kHz\_SISO\_NTNV\_80MHz\_DFT-s-OFDM PI/2 BPSK 3500.01MHz\_Edge\_1RB\_Left



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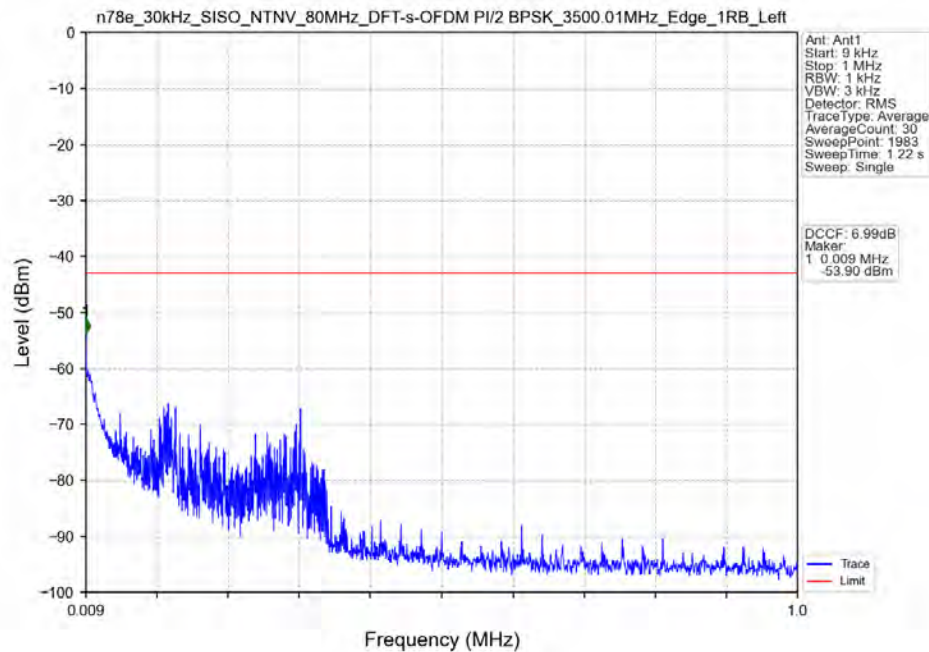


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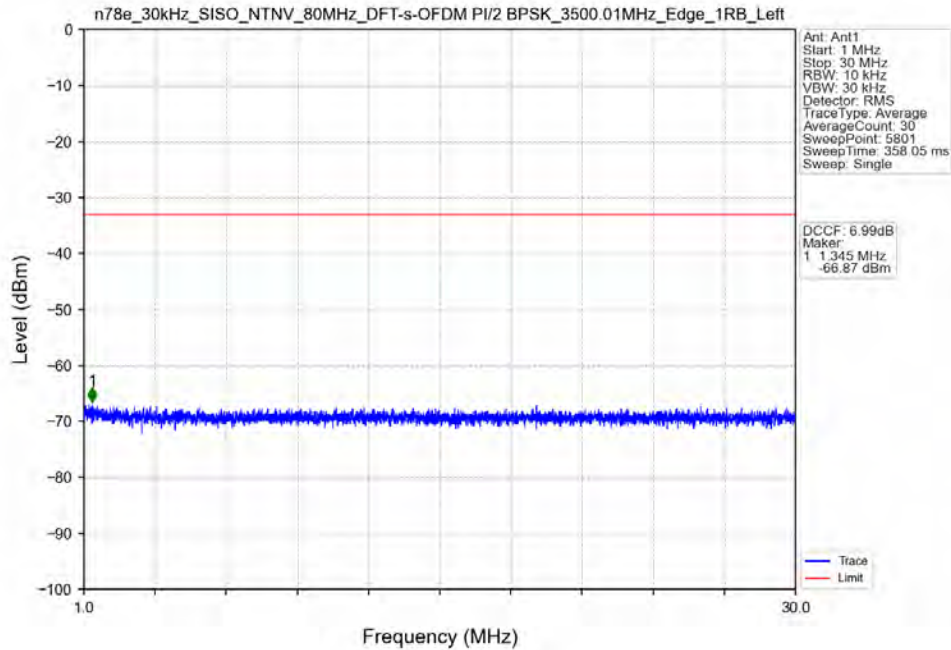
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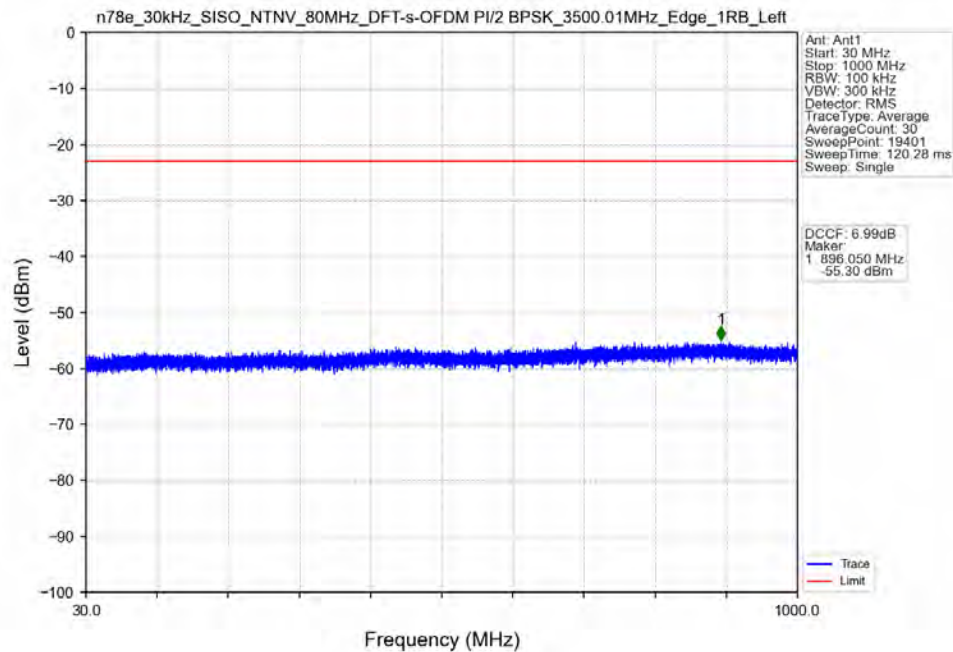


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