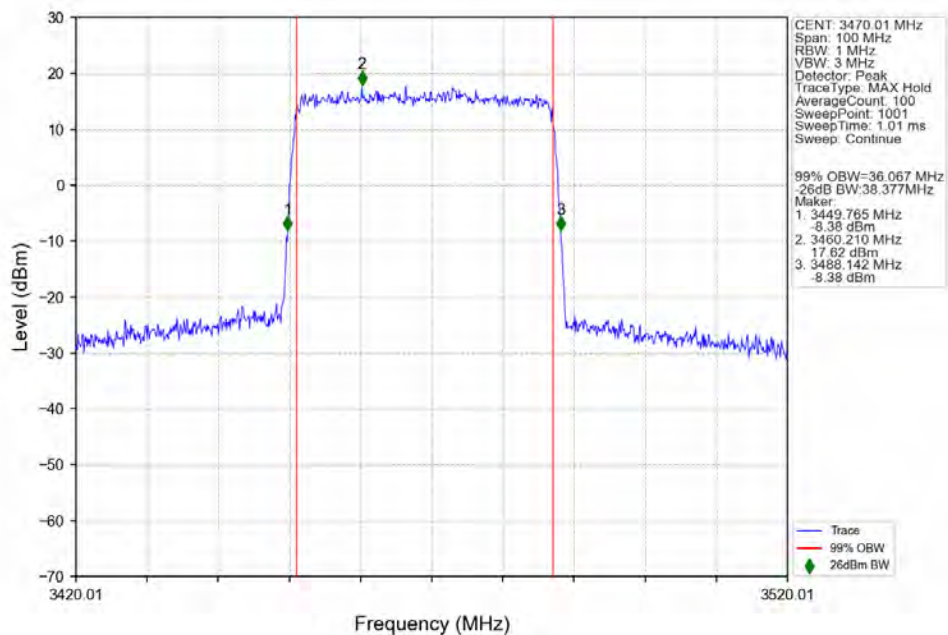
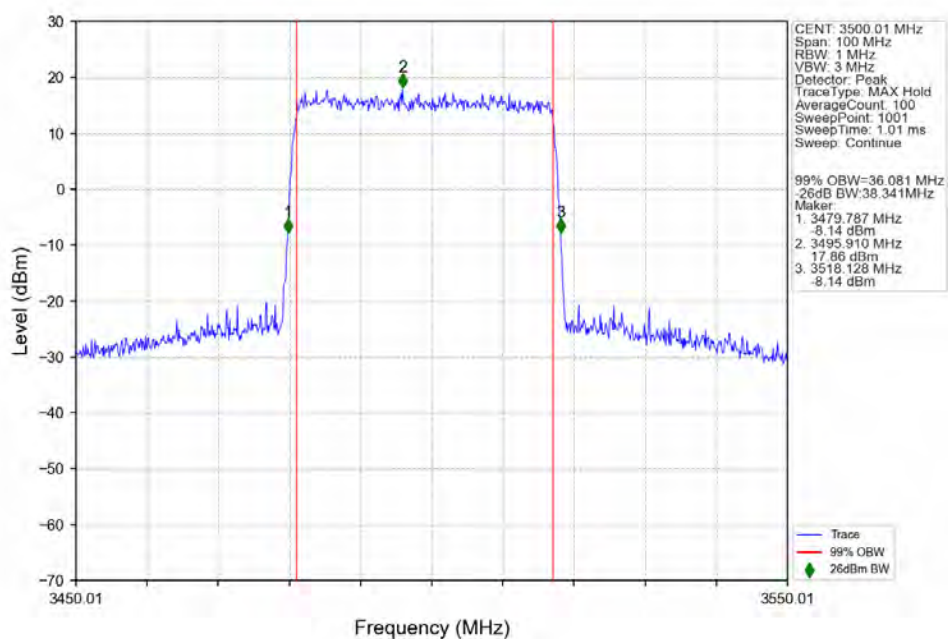


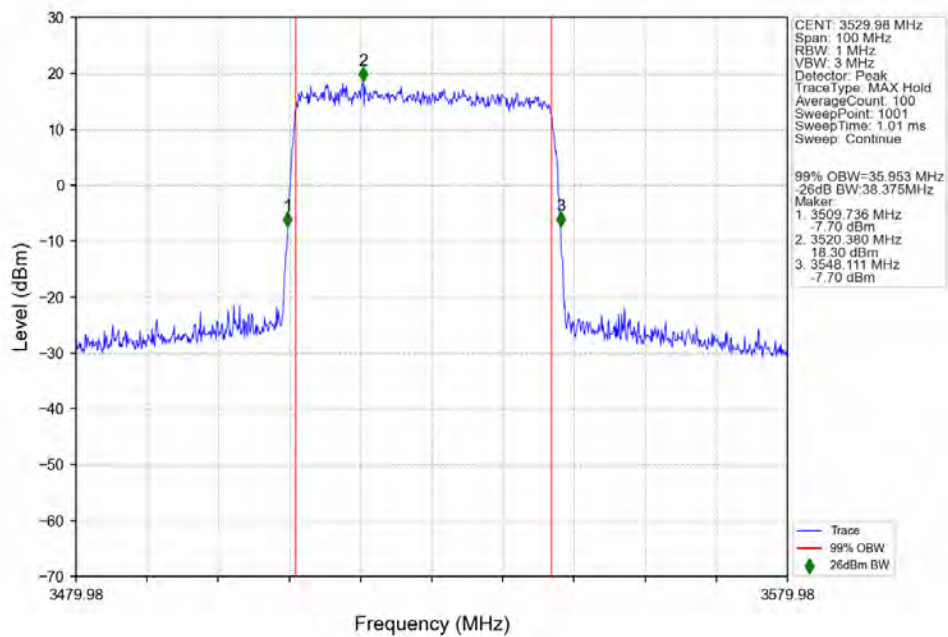
n78e 30kHz SISO NTN 40MHz DFT-s-OFDM 16 QAM 3470.01MHz Outer Full Ant1



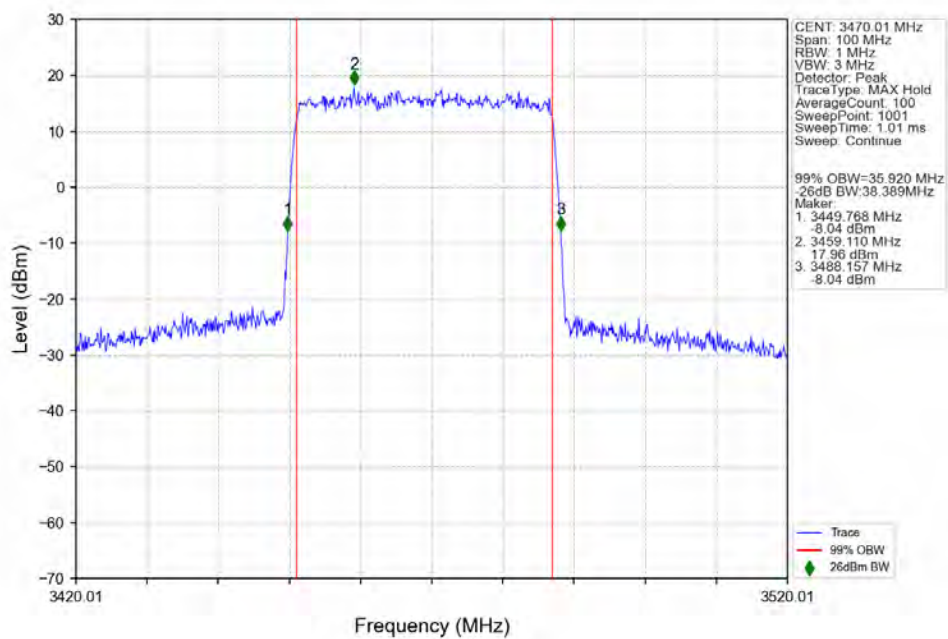
n78e 30kHz SISO NTN 40MHz DFT-s-OFDM 16 QAM 3500.01MHz Outer Full Ant1



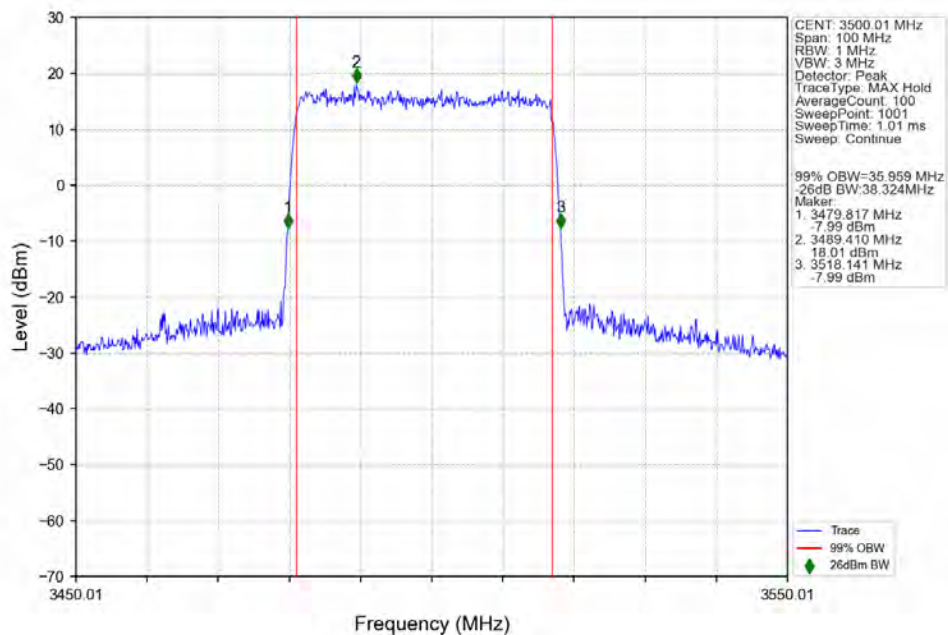
n78e 30kHz SISO NTN 40MHz DFT-s-OFDM 16 QAM 3529.98MHz Outer Full Ant1



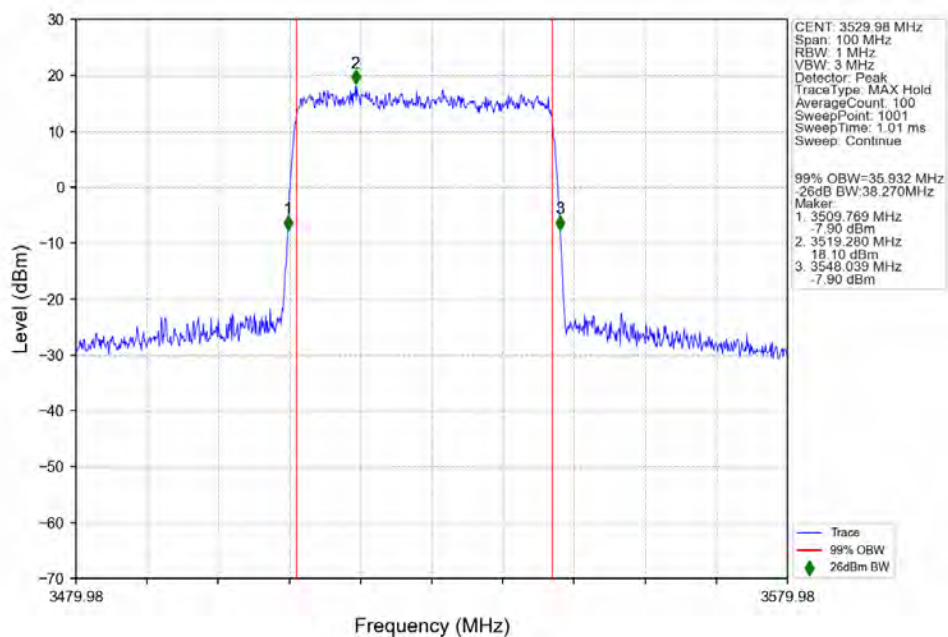
n78e 30kHz SISO NTN 40MHz DFT-s-OFDM 64 QAM 3470.01MHz Outer Full Ant1



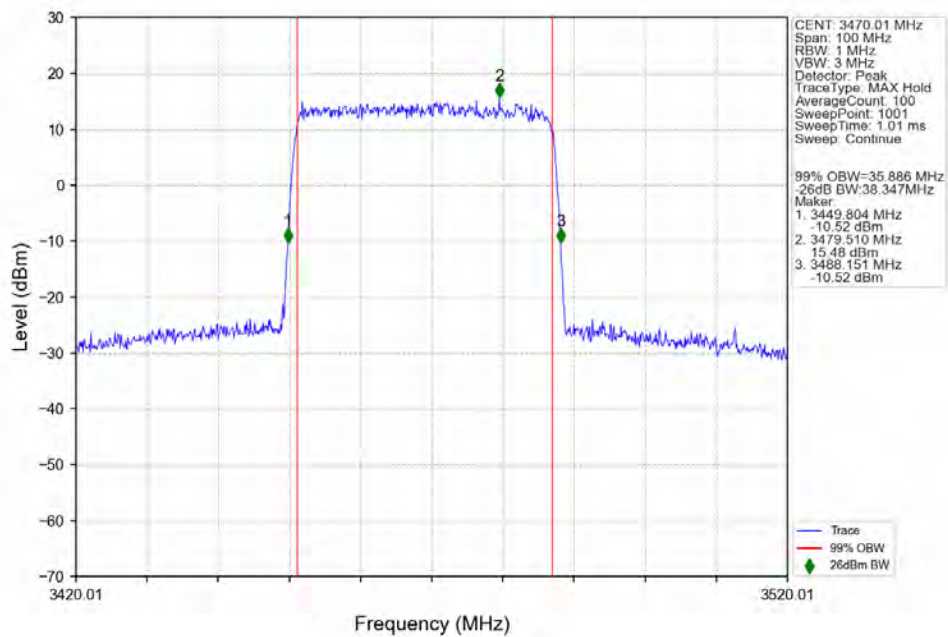
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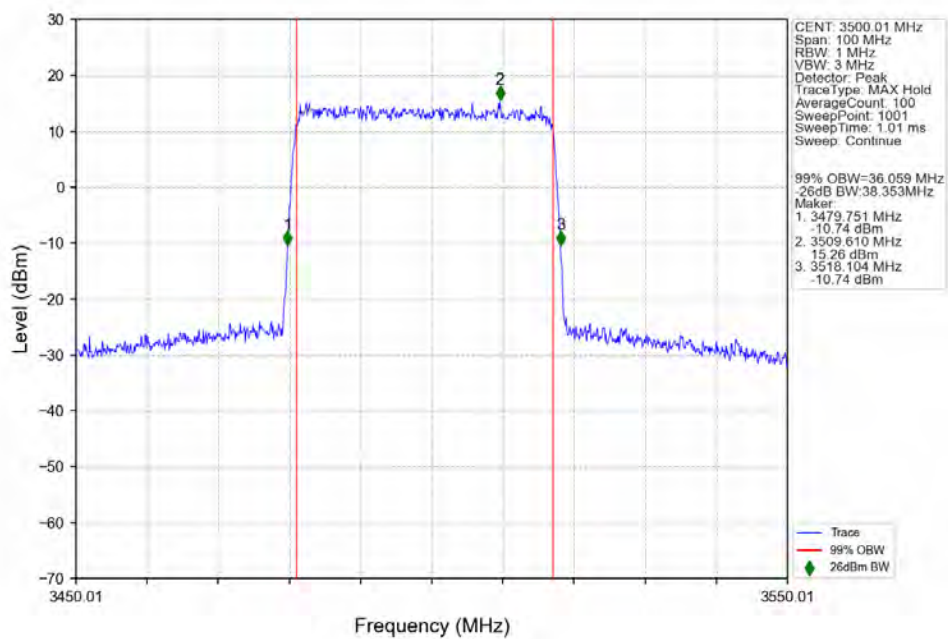
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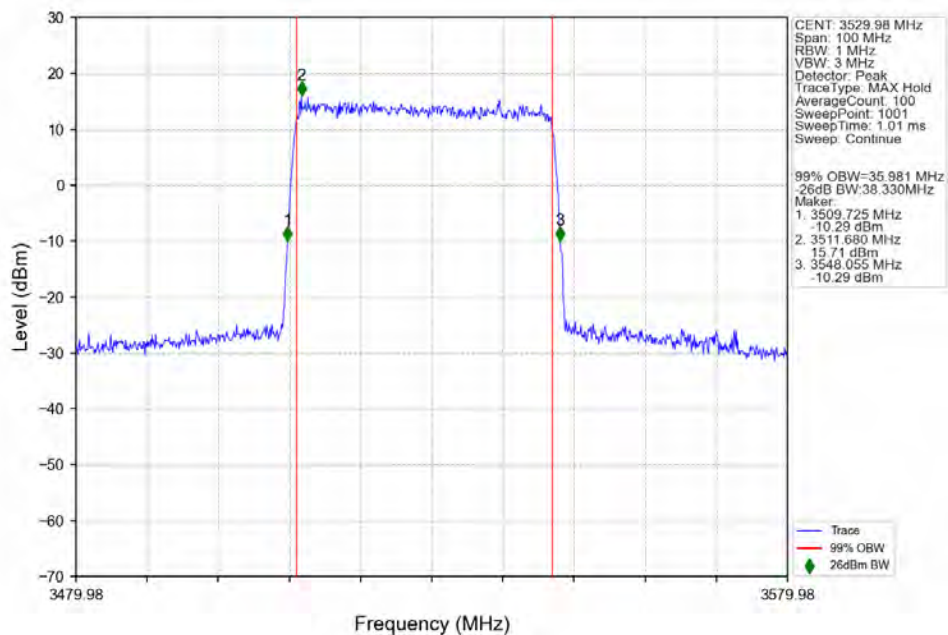
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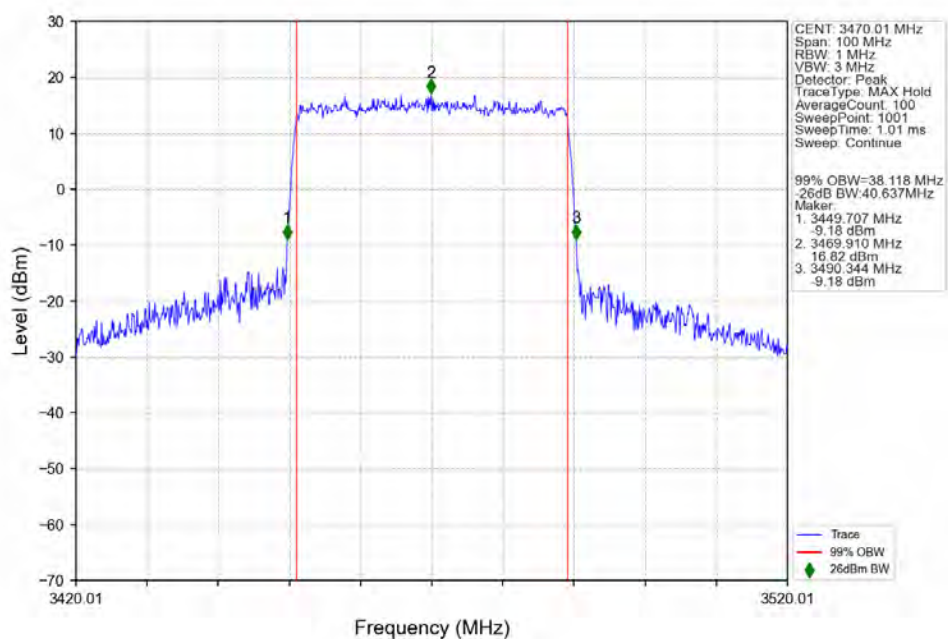
n78e\_30kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM\_256\_QAM\_3500.01MHz\_Outer\_Full\_Ant1



n78e\_30kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM\_256\_QAM\_3529.98MHz\_Outer\_Full\_Ant1

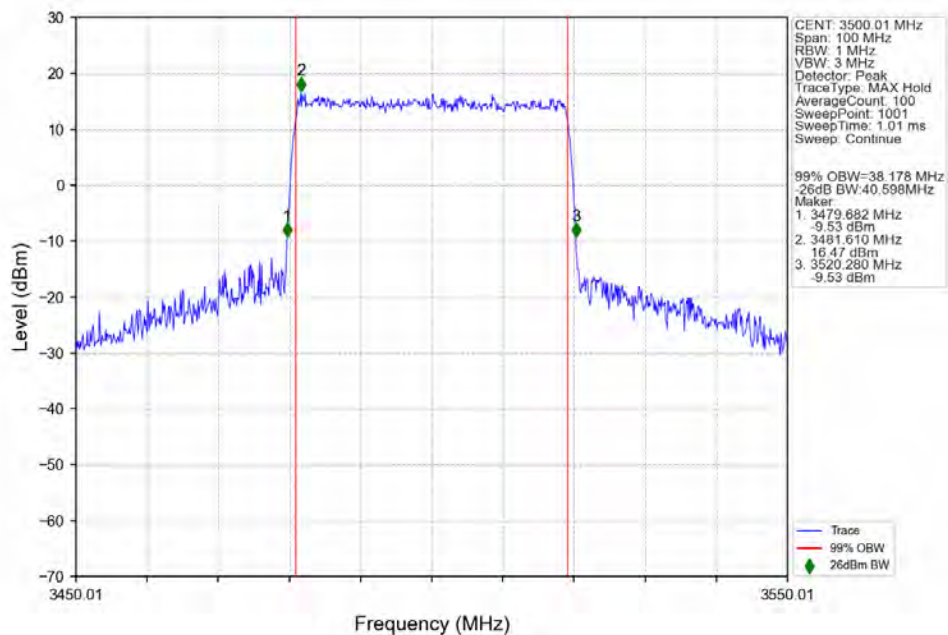


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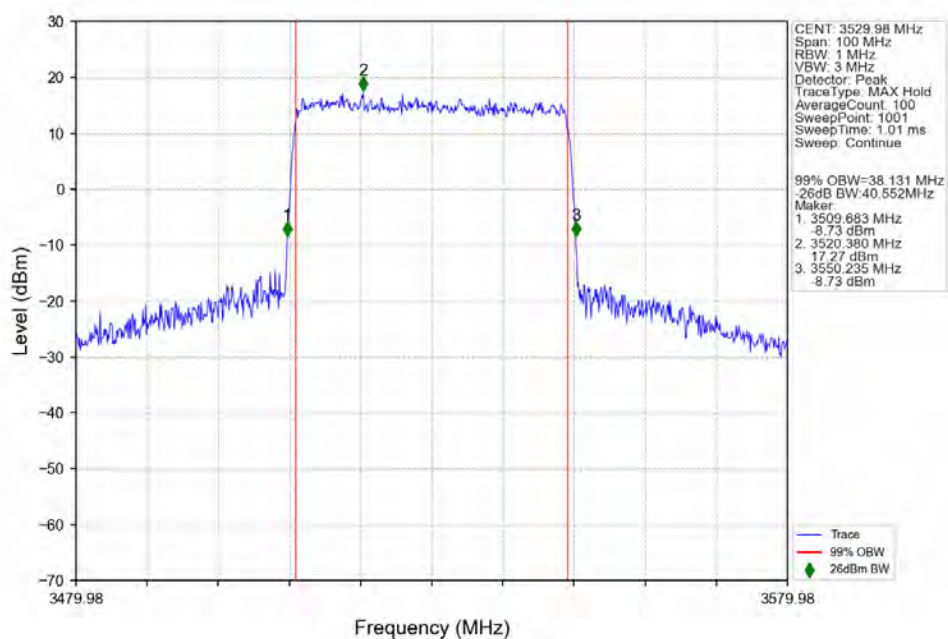




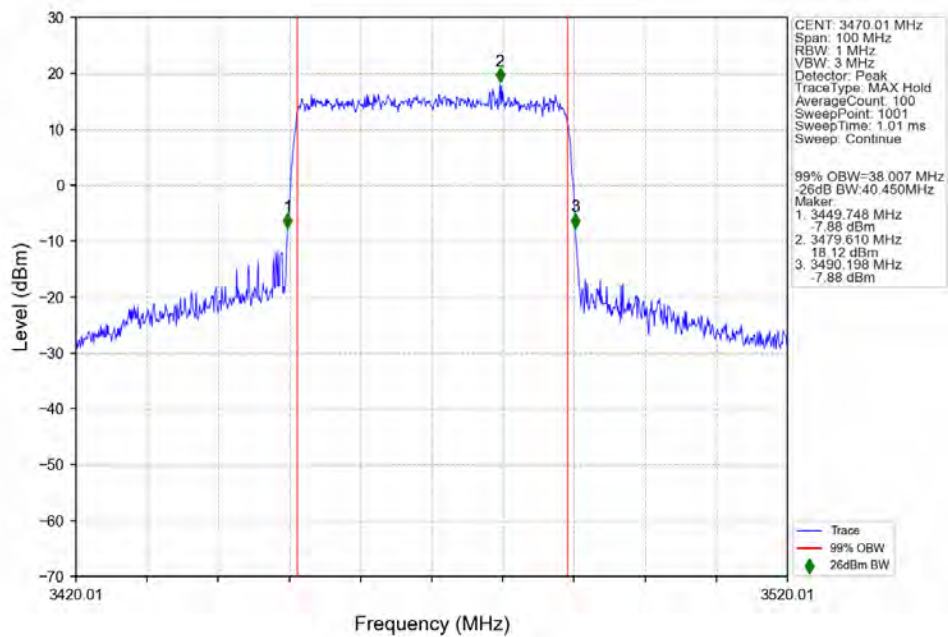
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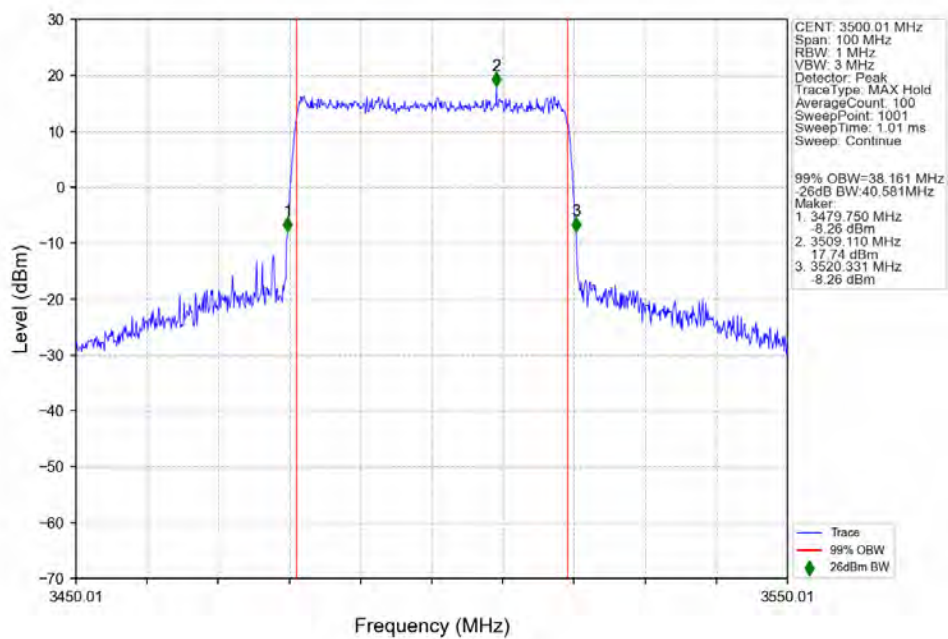
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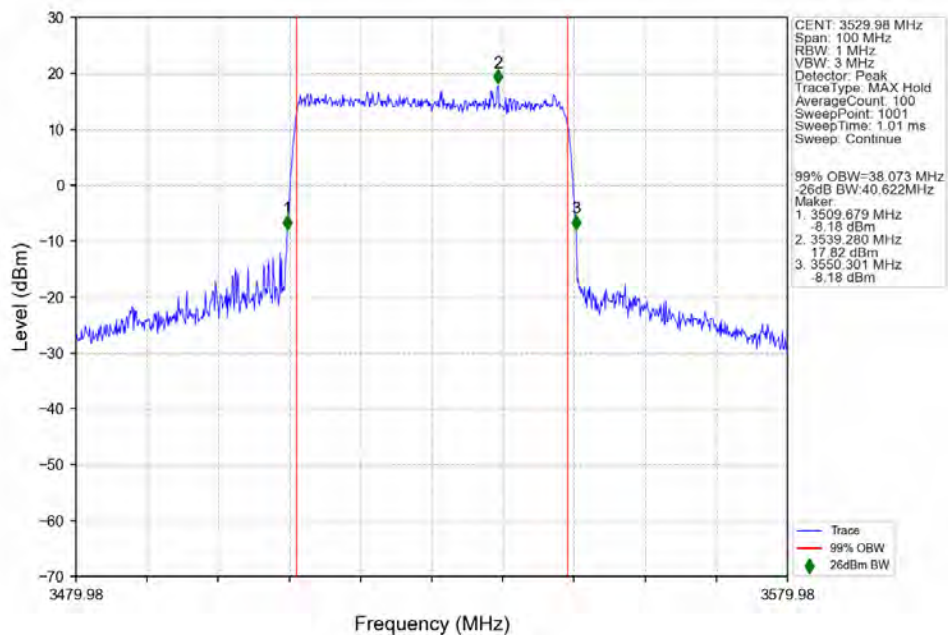
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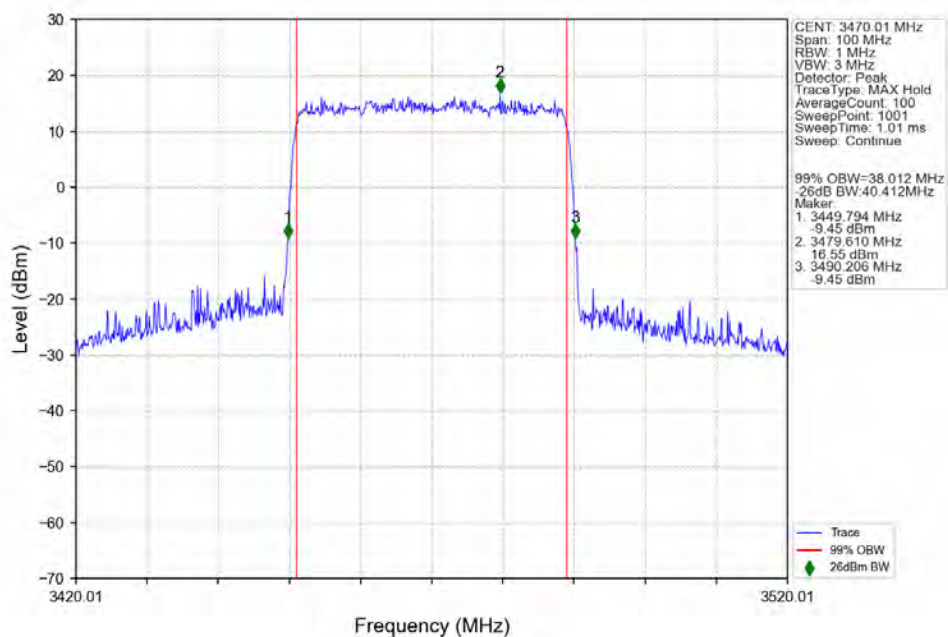
n78e\_30kHz\_SISO\_NTNV\_40MHz\_CP-OFDM\_16\_QAM\_3500.01MHz\_Outer\_Full\_Ant1



n78e\_30kHz\_SISO\_NTNV\_40MHz\_CP-OFDM 16 QAM 3529.98MHz\_Outer\_Full\_Ant1

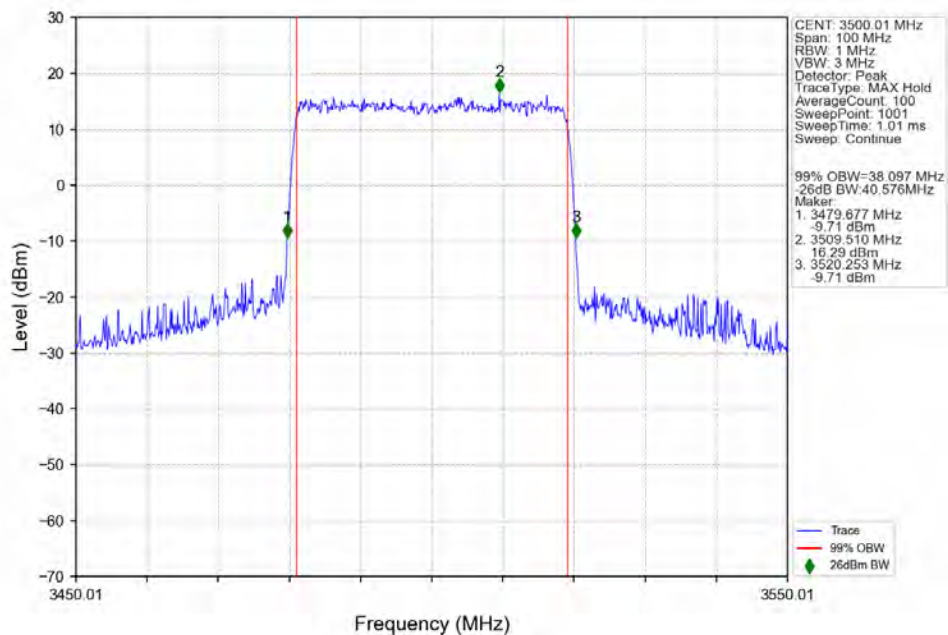


n78e\_30kHz\_SISO\_NTNV\_40MHz\_CP-OFDM 64 QAM 3470.01MHz\_Outer\_Full\_Ant1

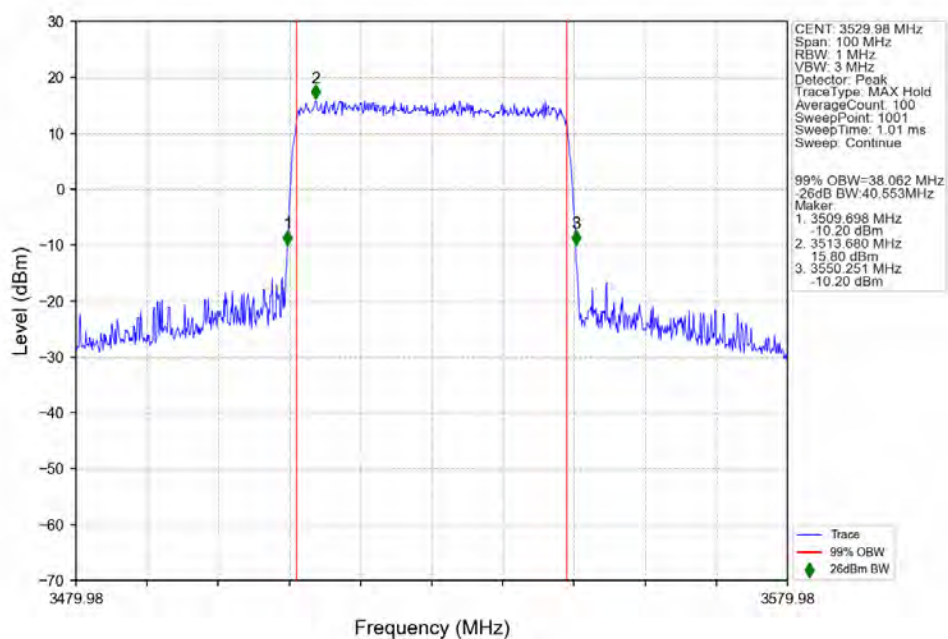




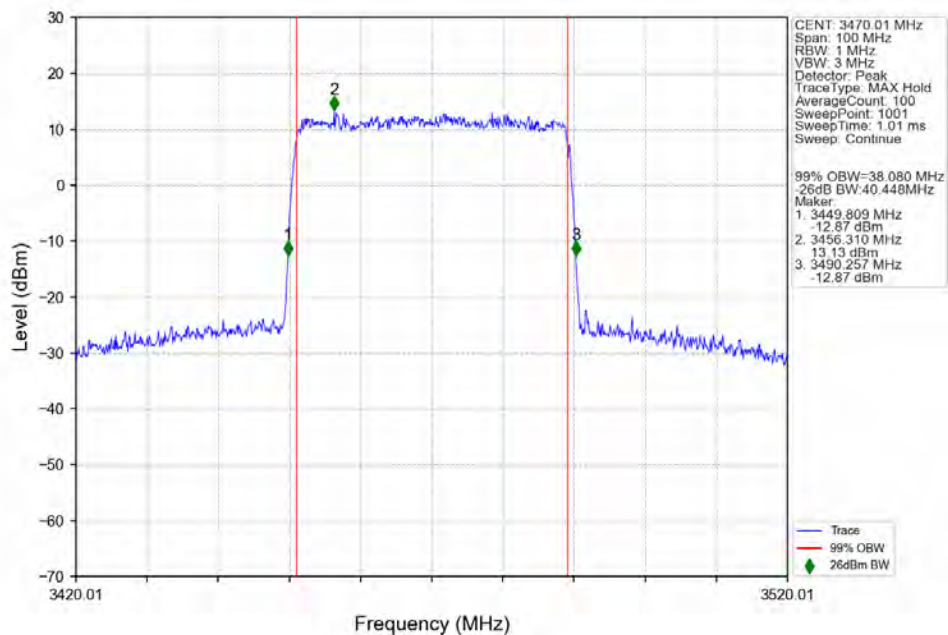
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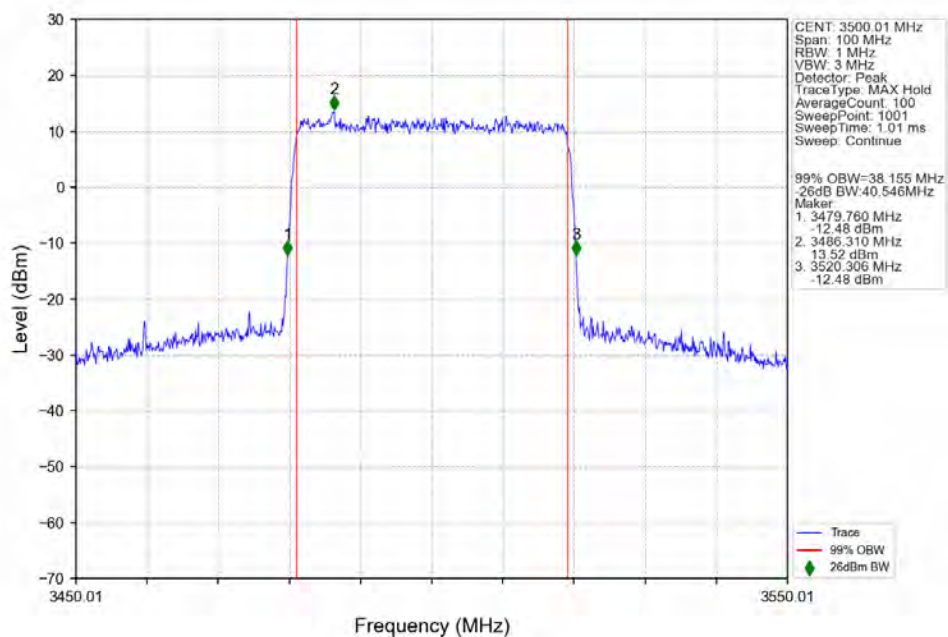
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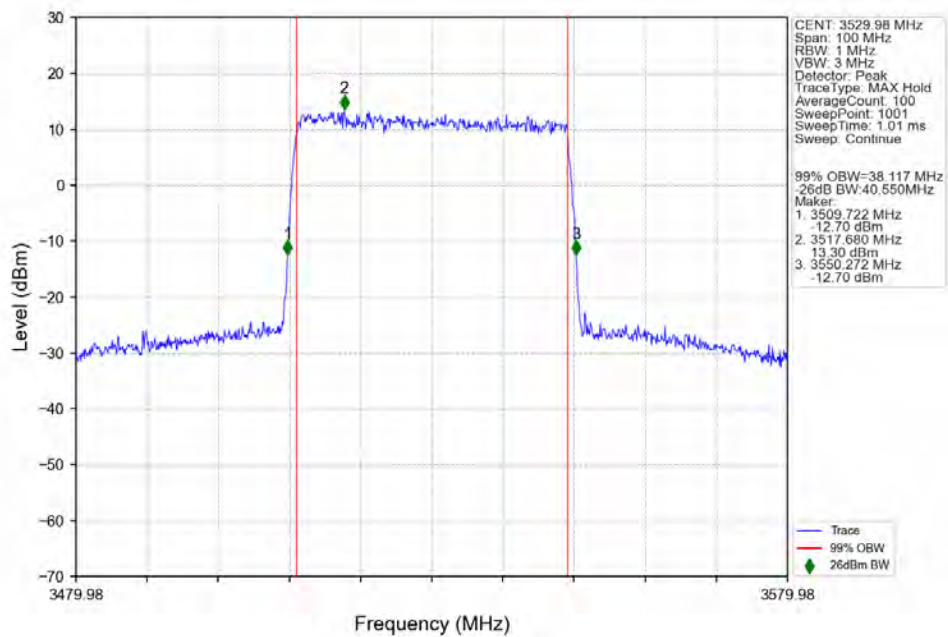
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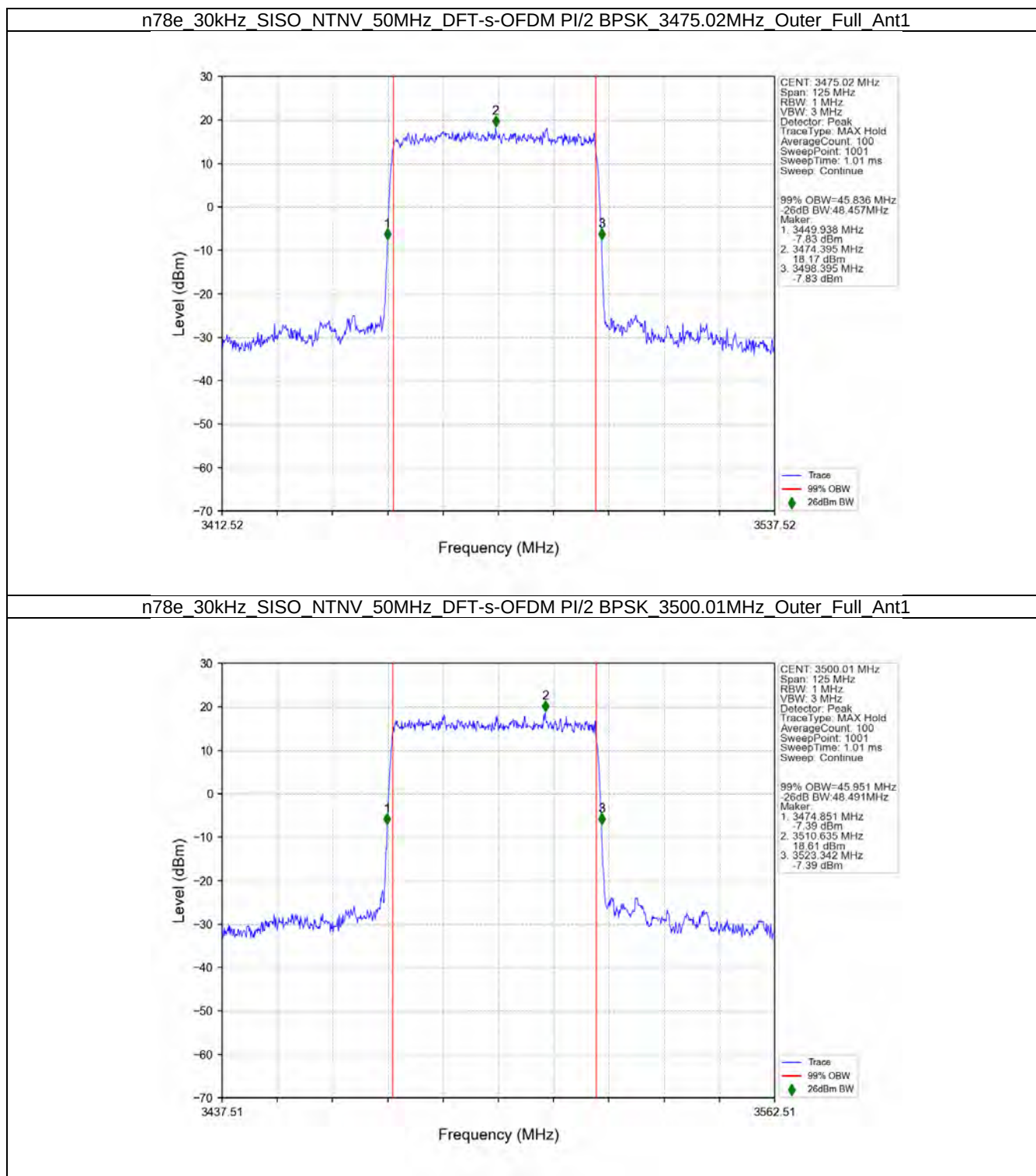
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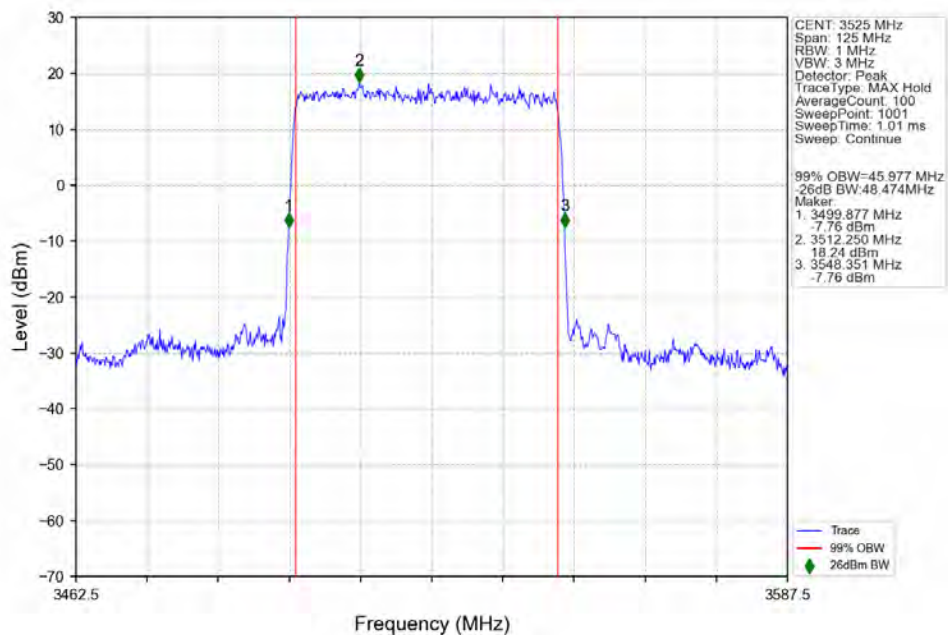
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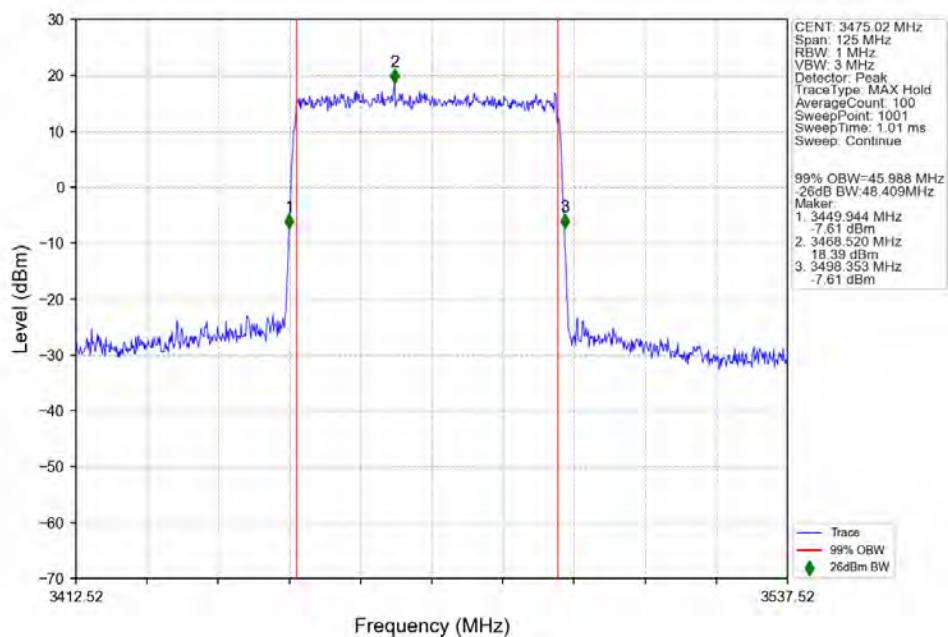
## 3.2.7 30k\_SISO\_50MHz\_NTNV



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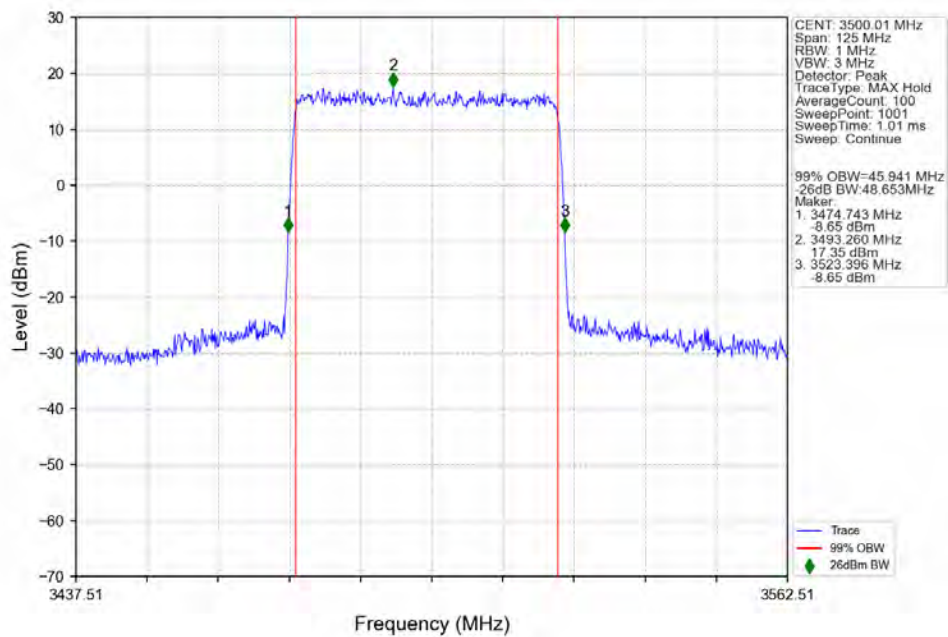


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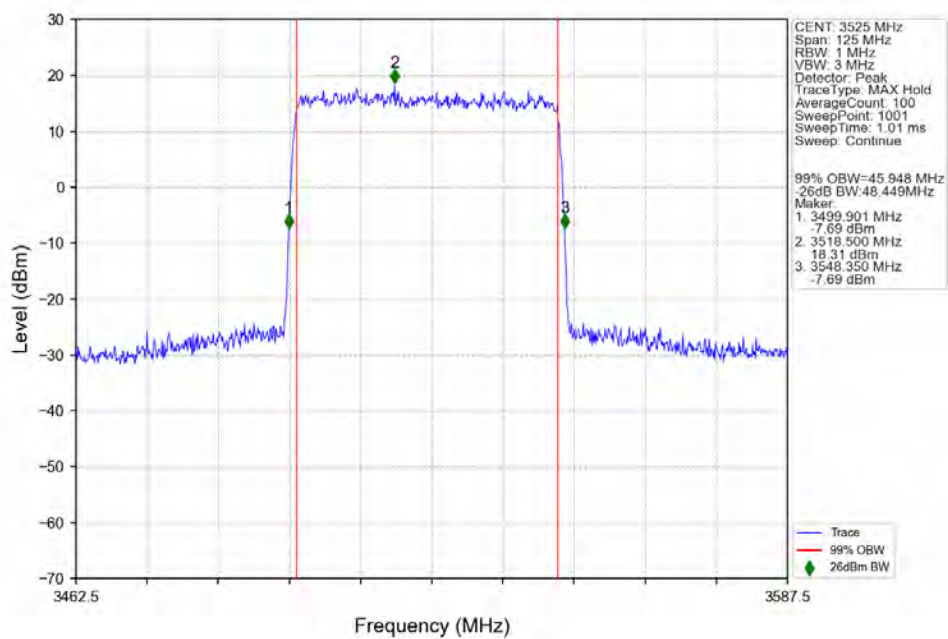




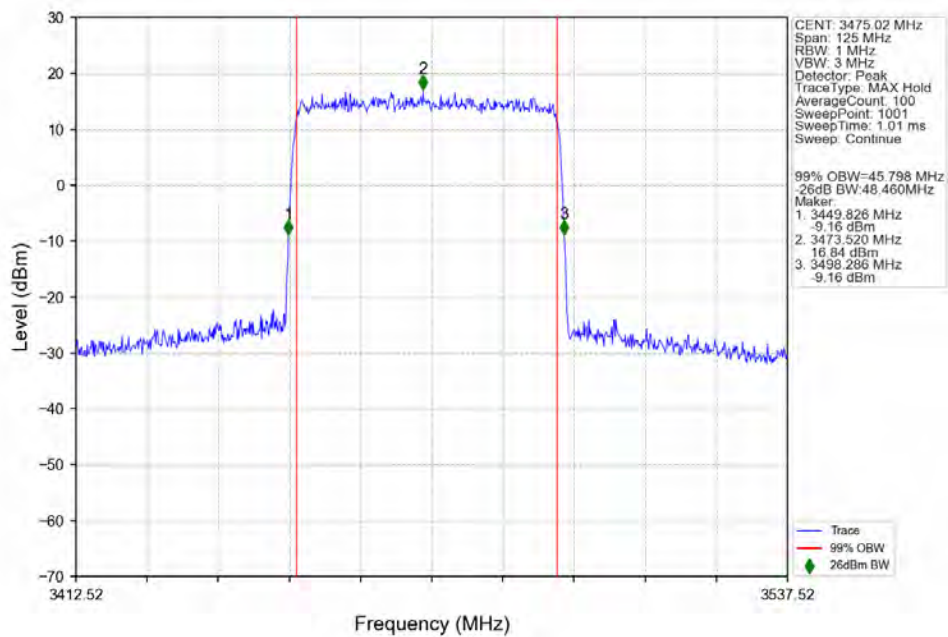
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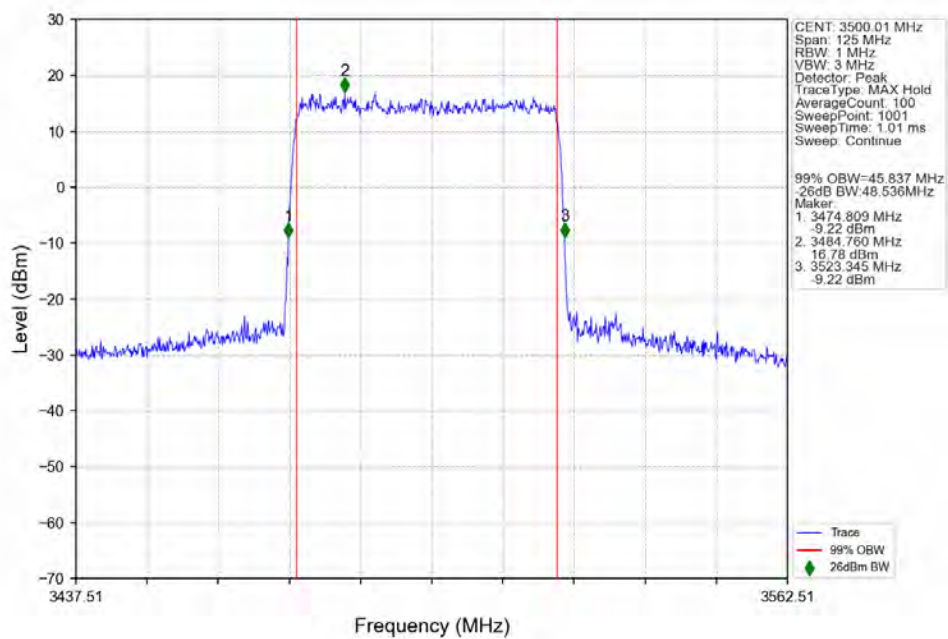
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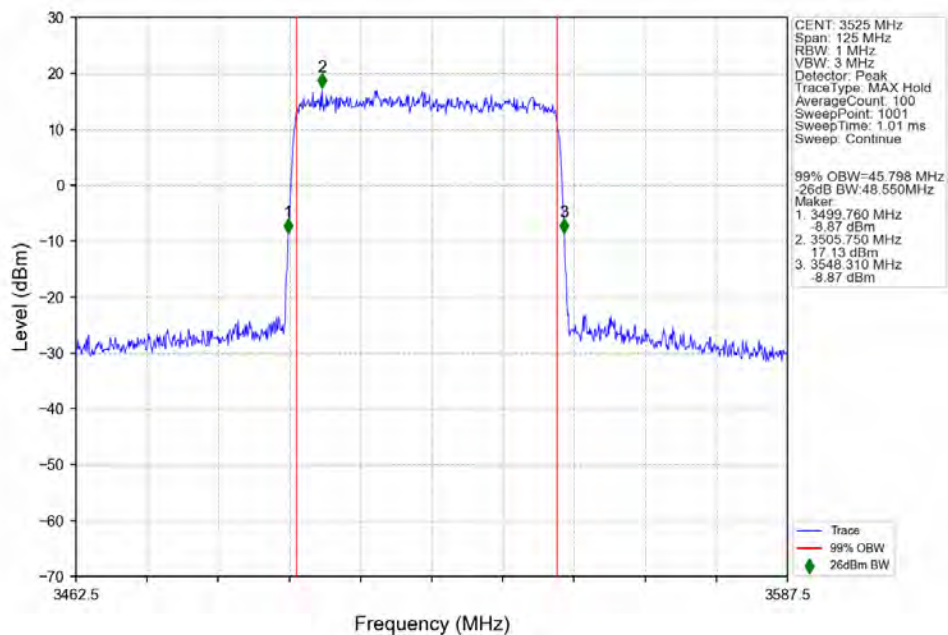
n78e 30kHz SISO NTN 50MHz DFT-s-OFDM 16 QAM 3475.02MHz Outer Full Ant1



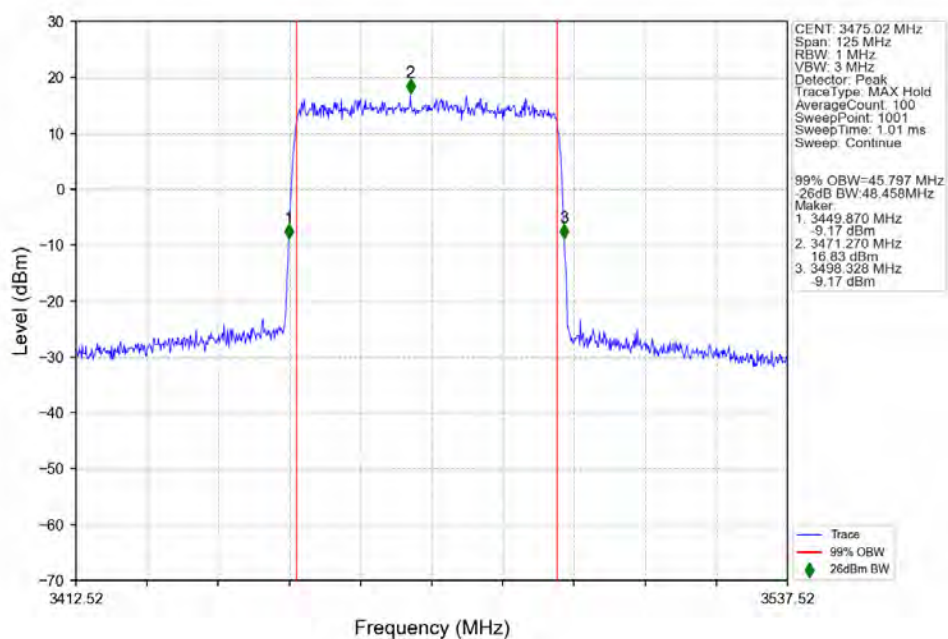
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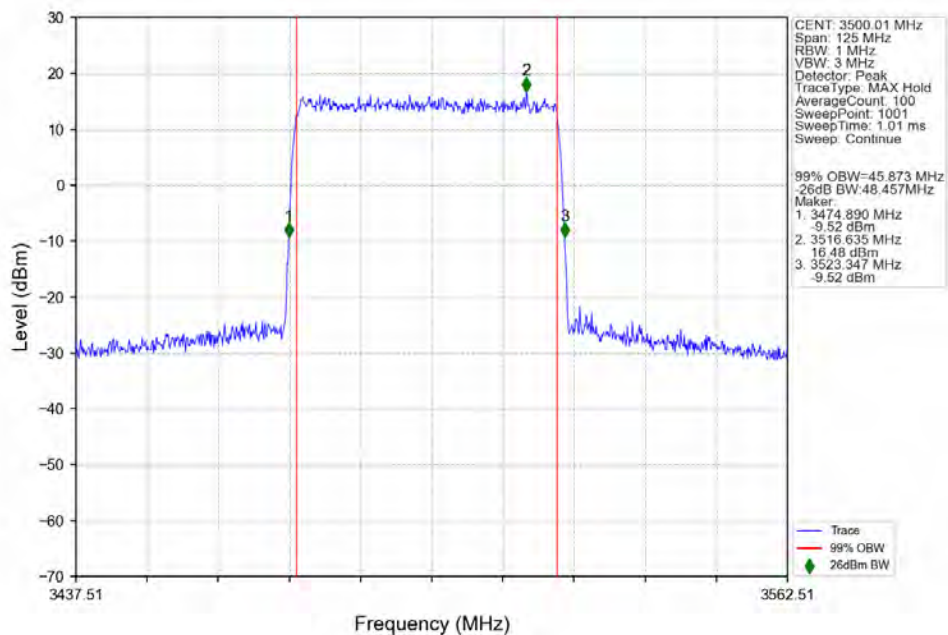
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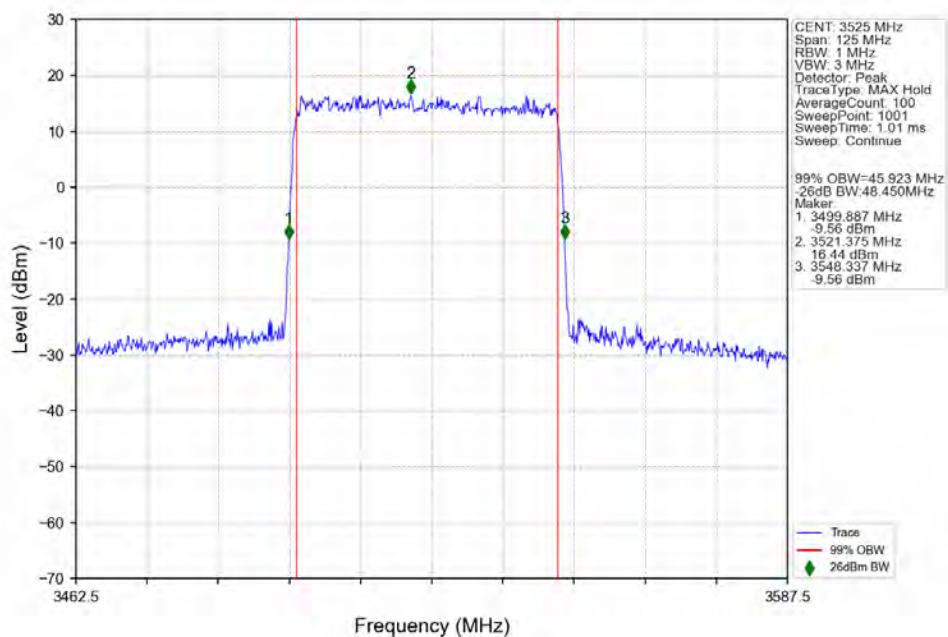
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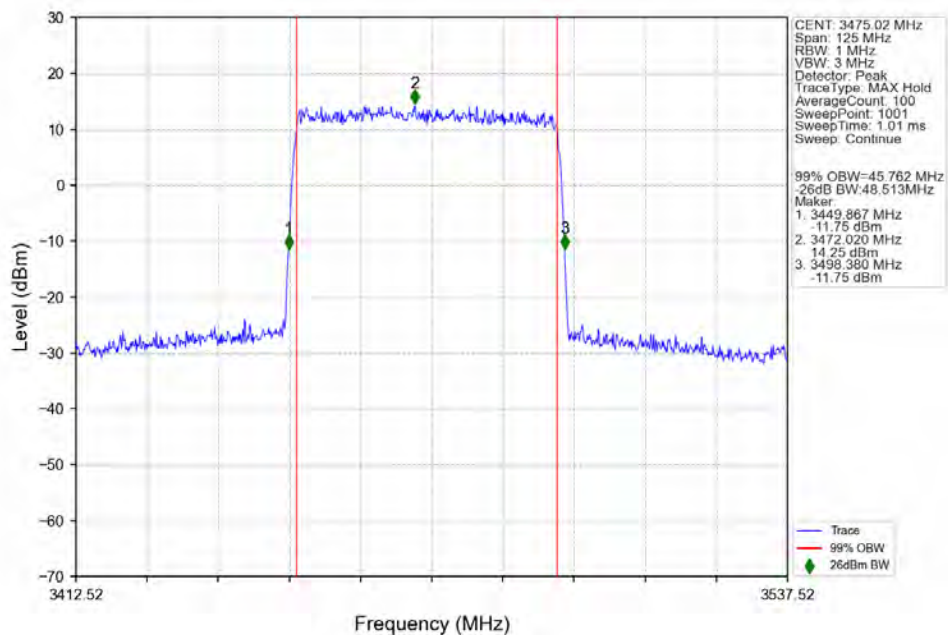
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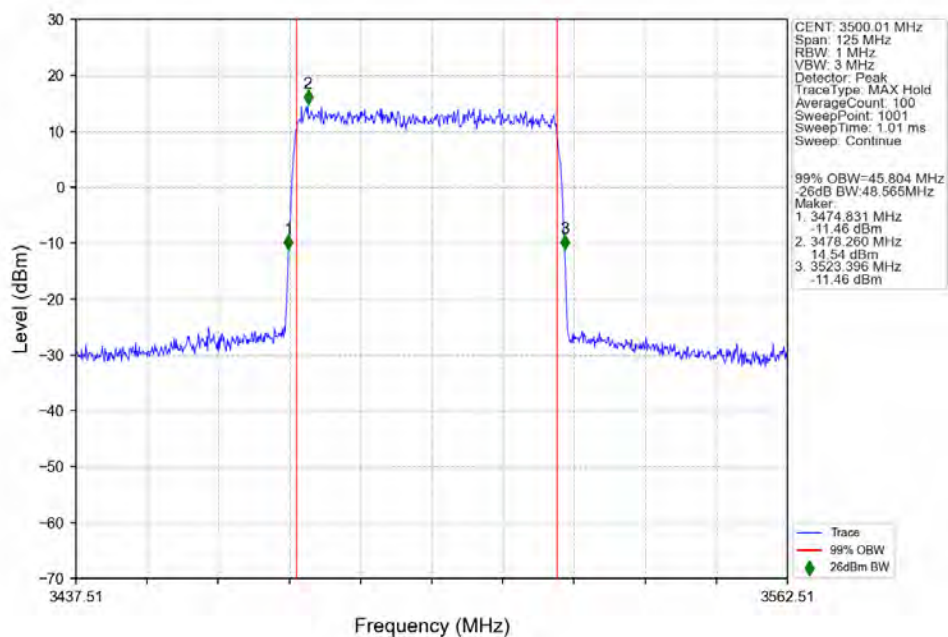
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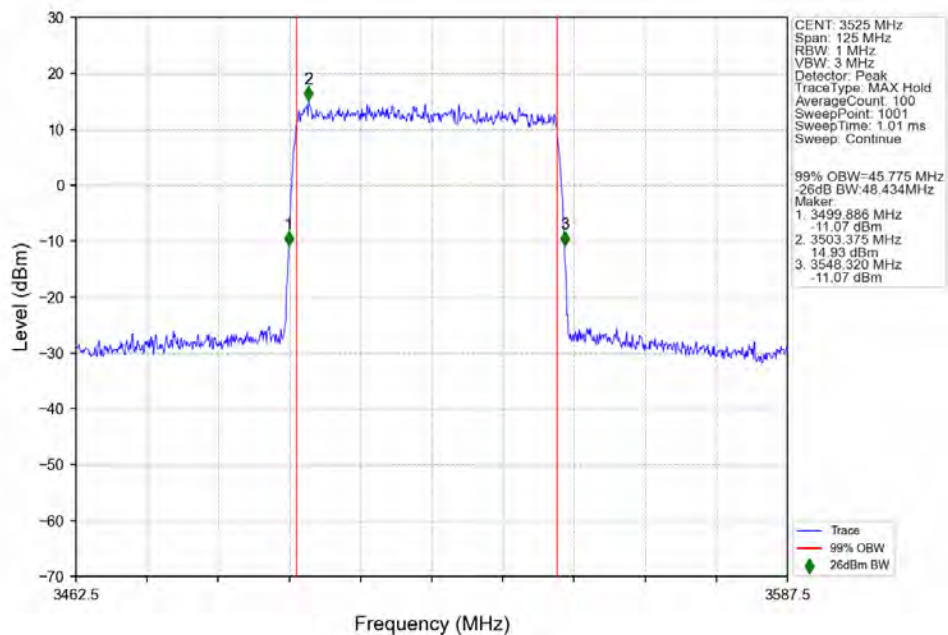


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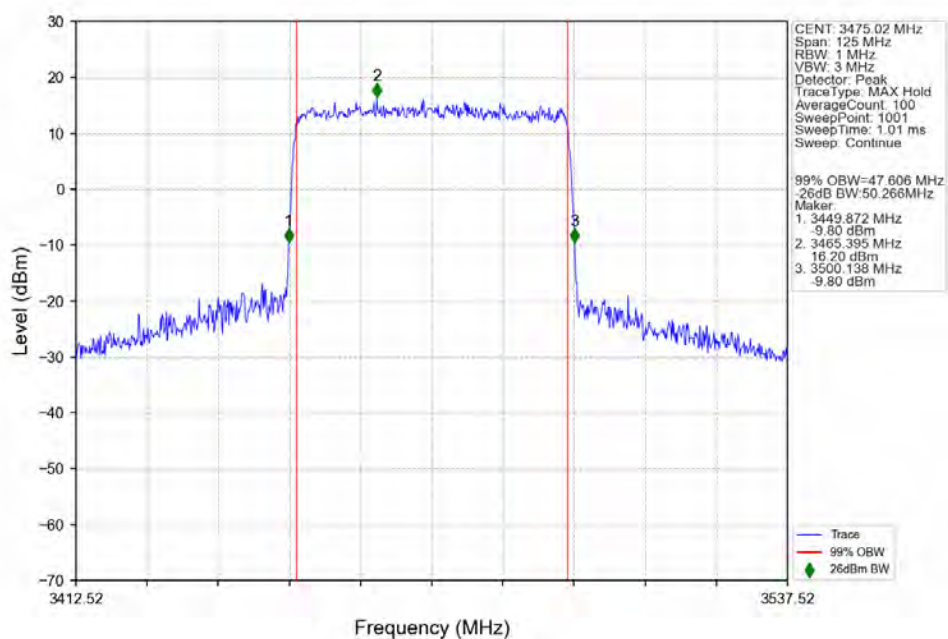




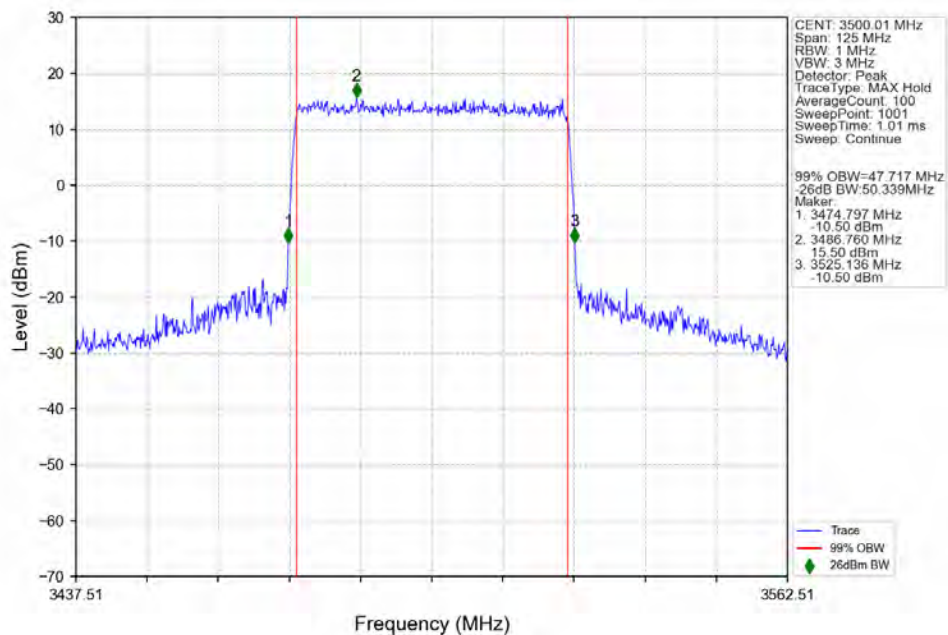
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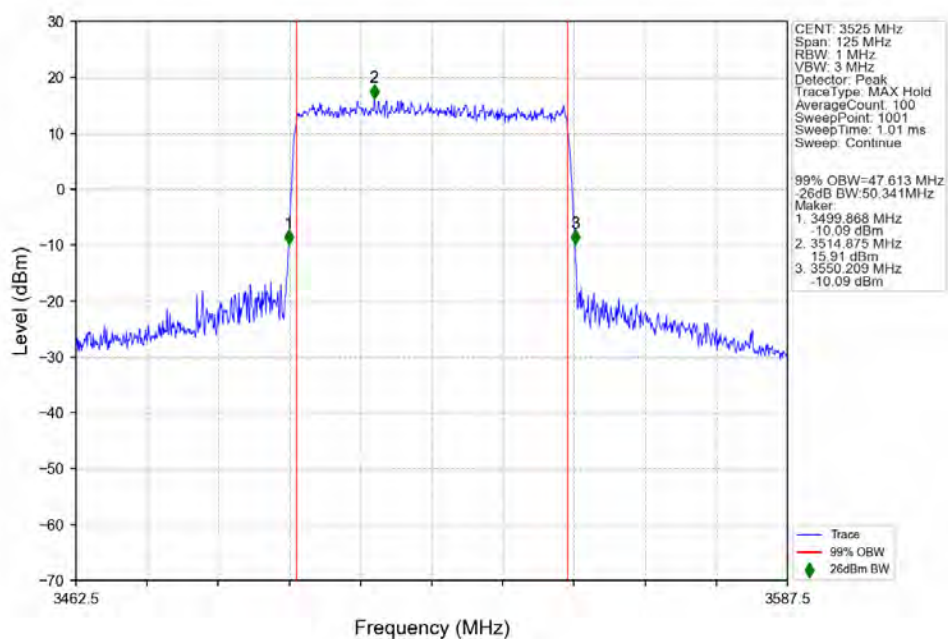
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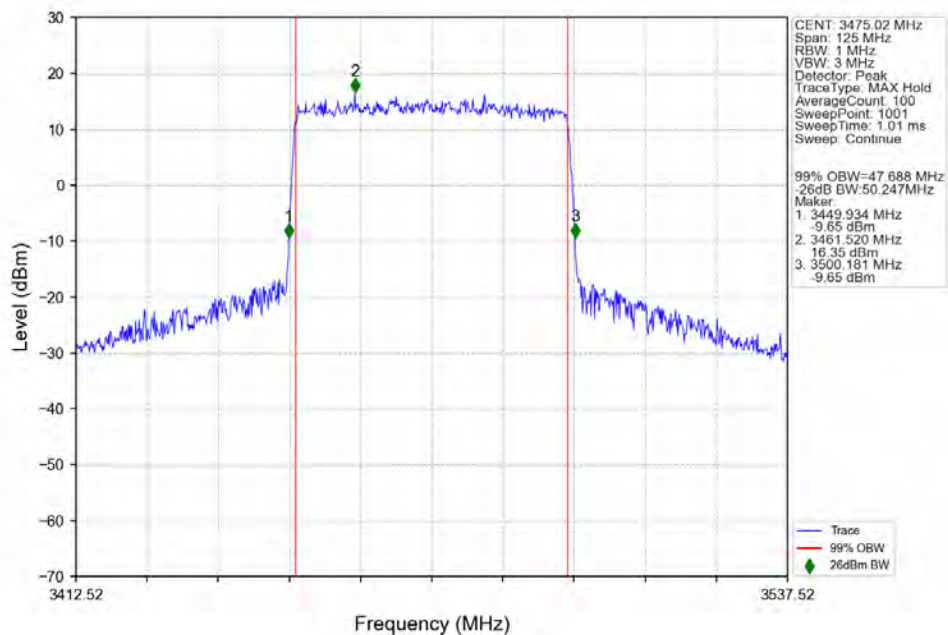
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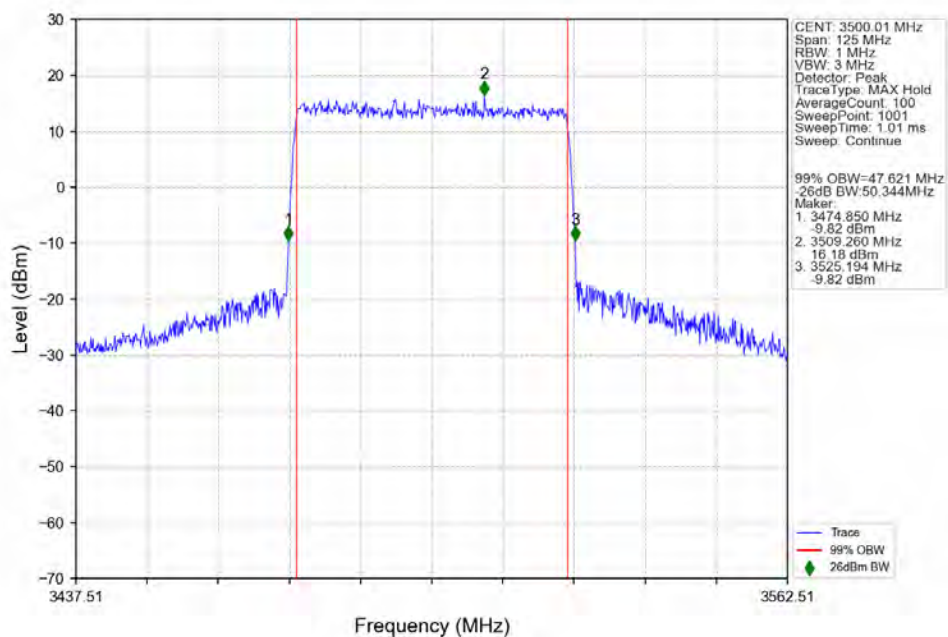
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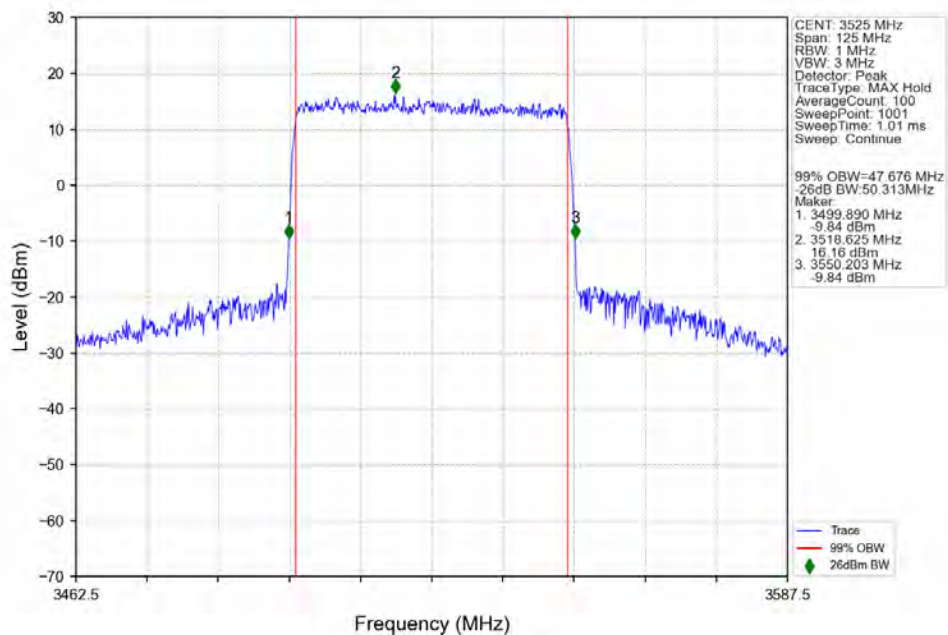
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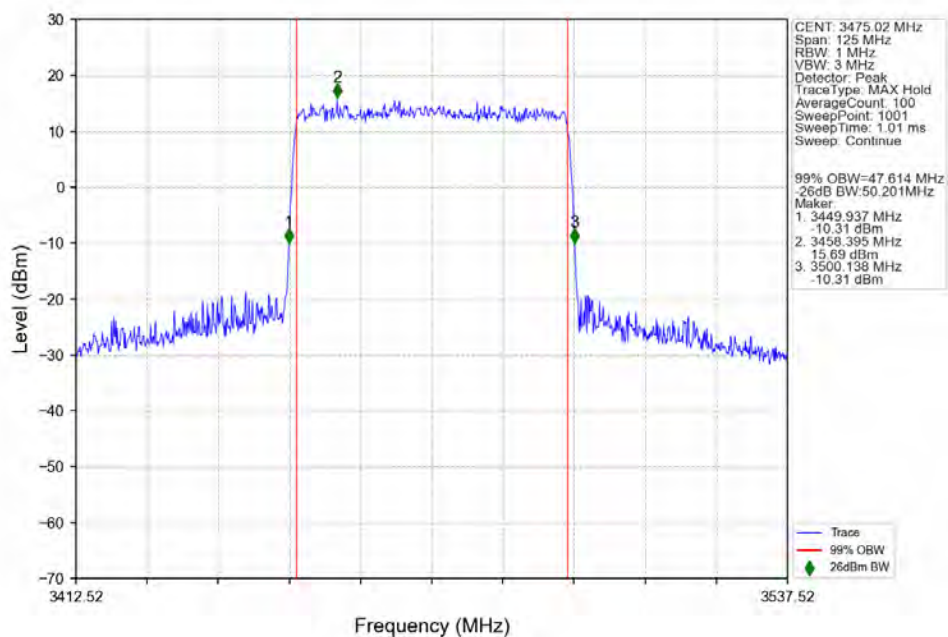
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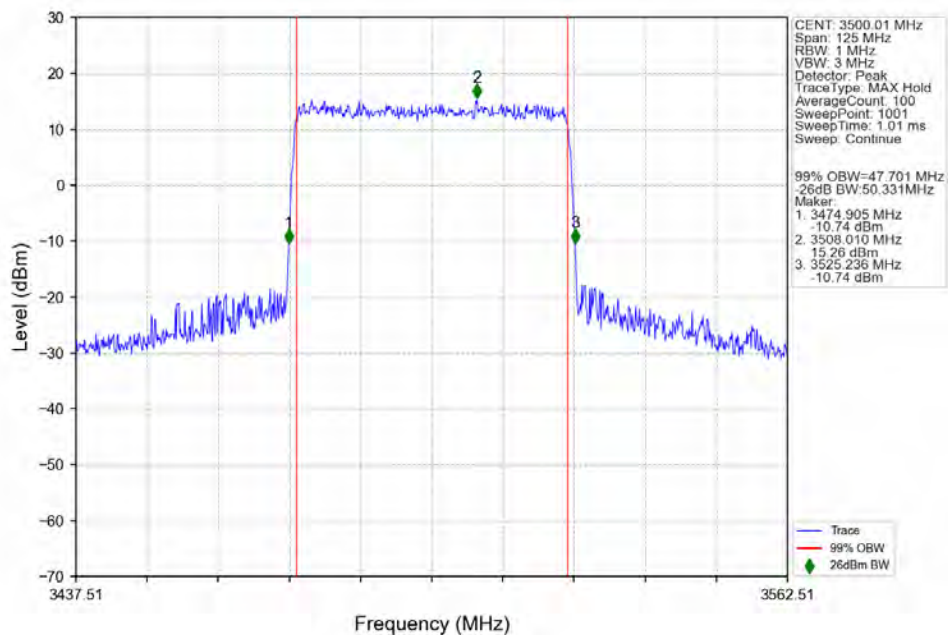
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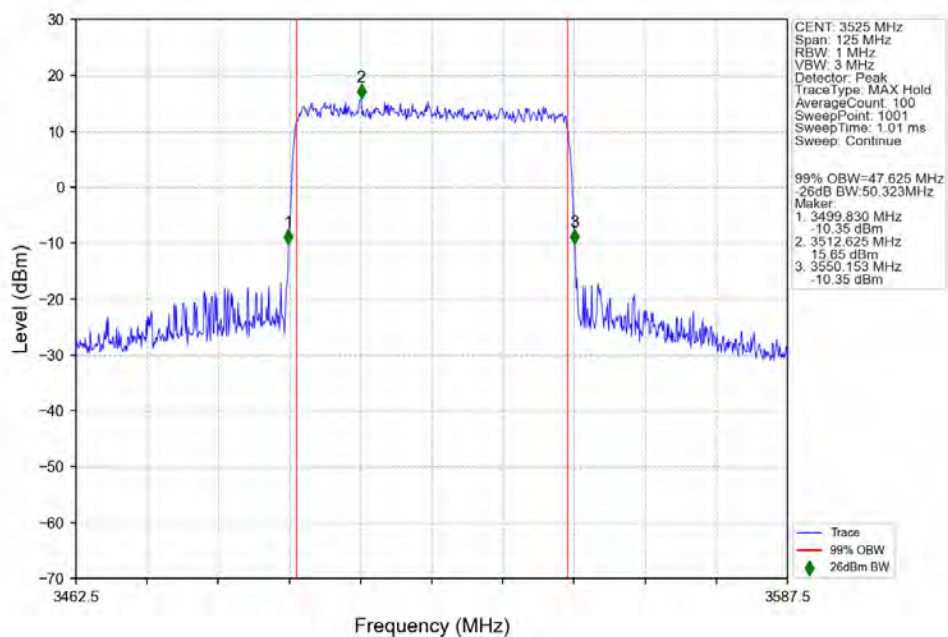
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n78e\_30kHz\_SISO\_NTNV\_50MHz\_CP-OFDM\_64\_QAM\_3500.01MHz\_Outer\_Full\_Ant1

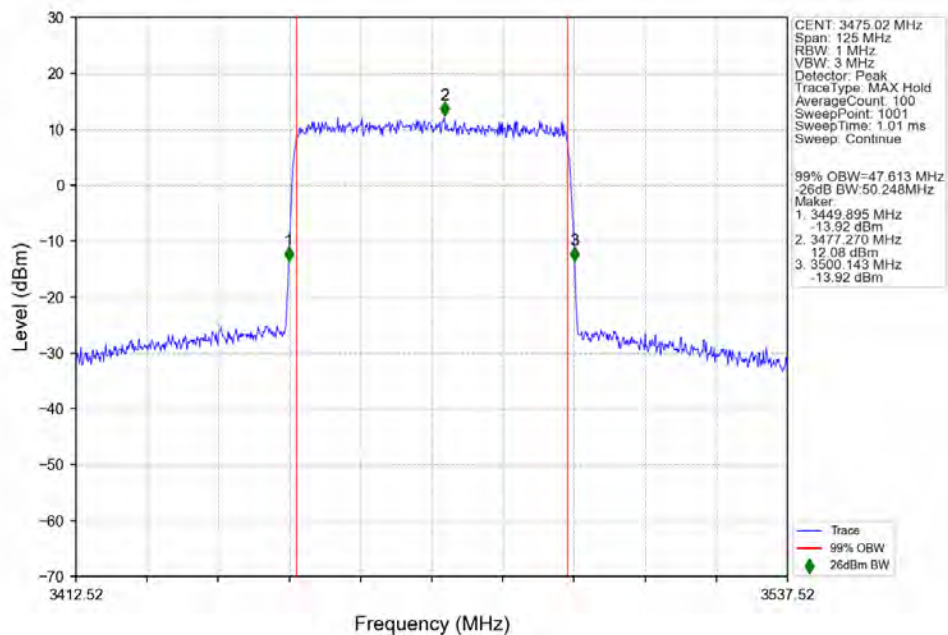


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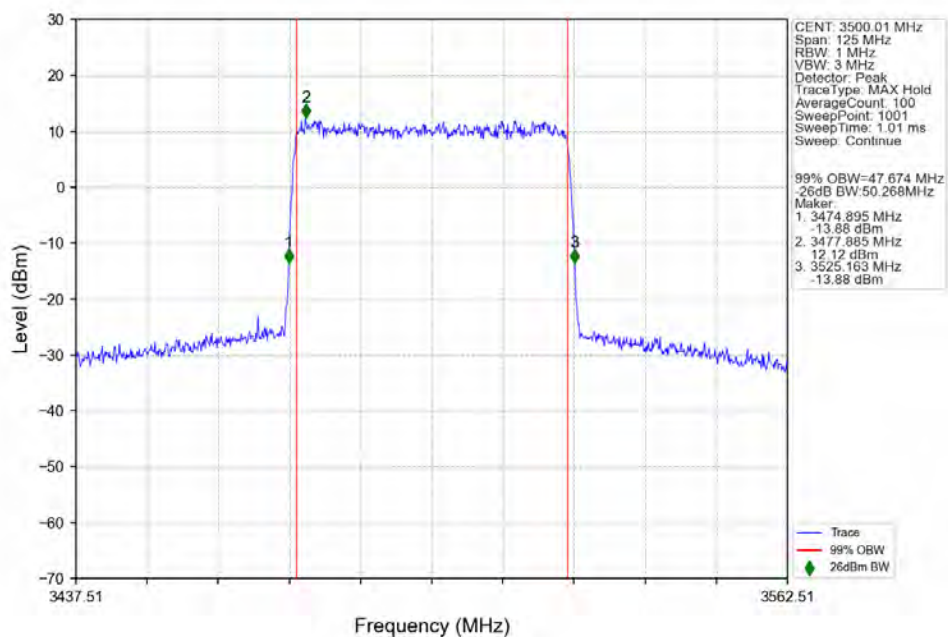




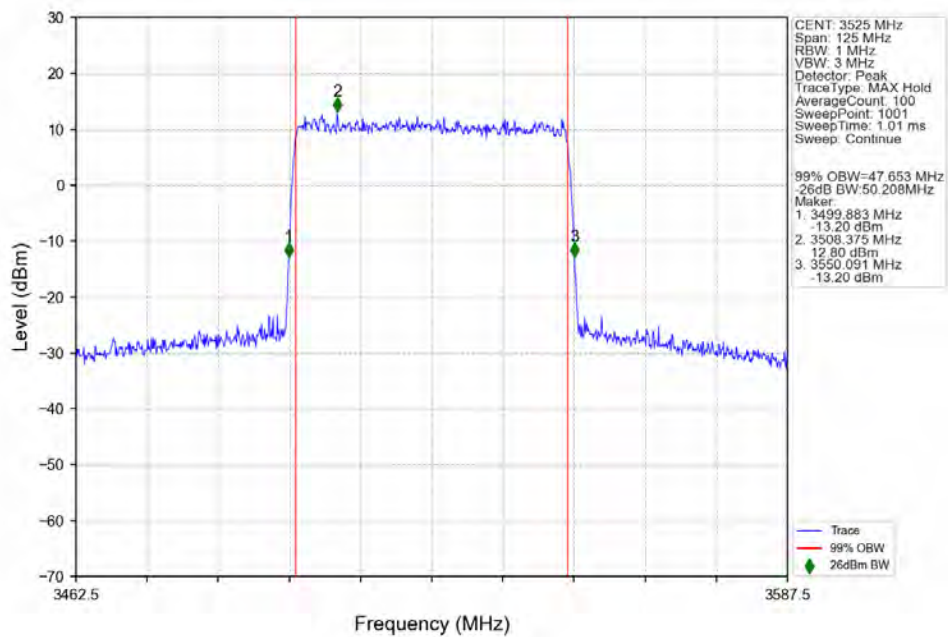
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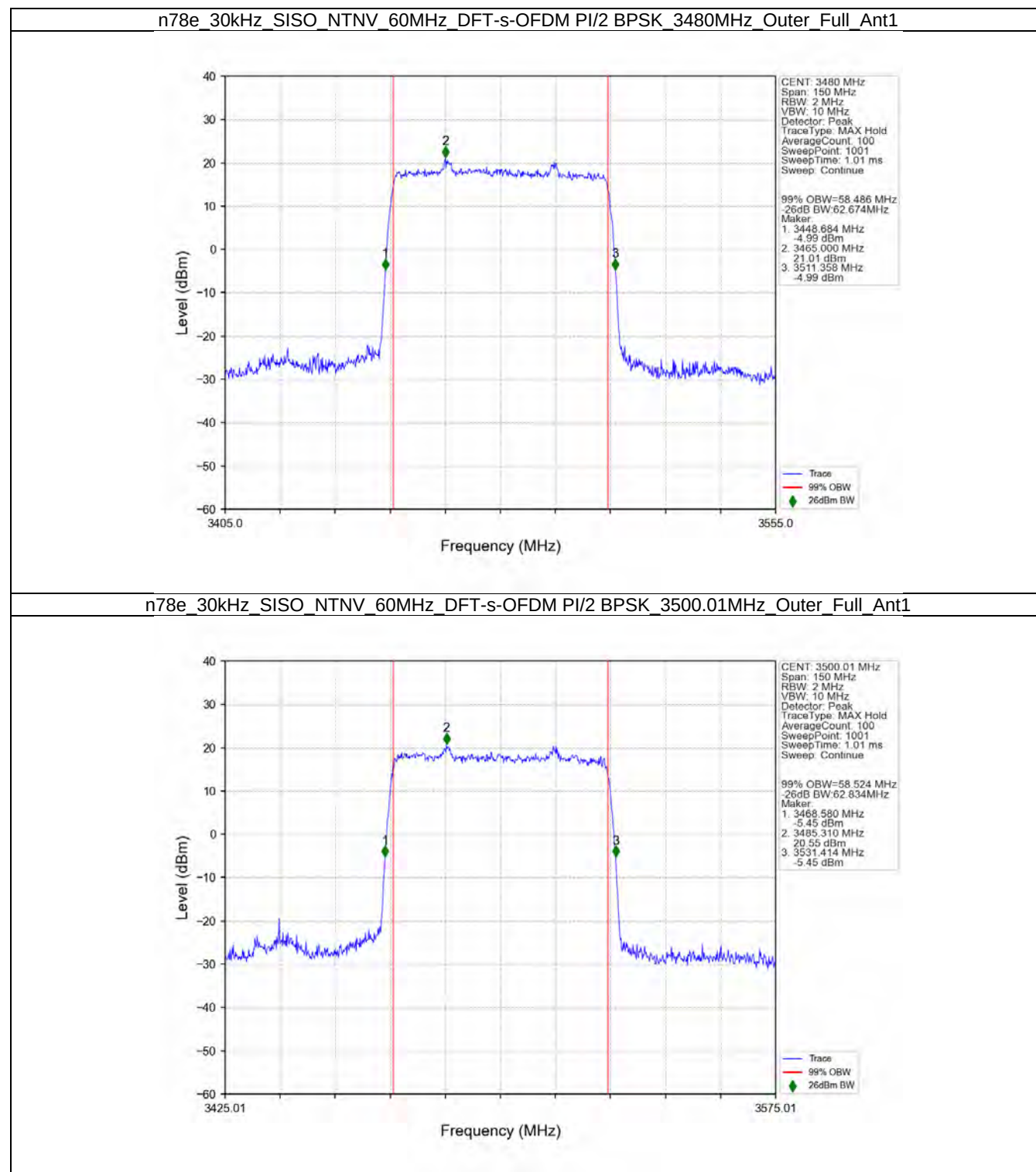
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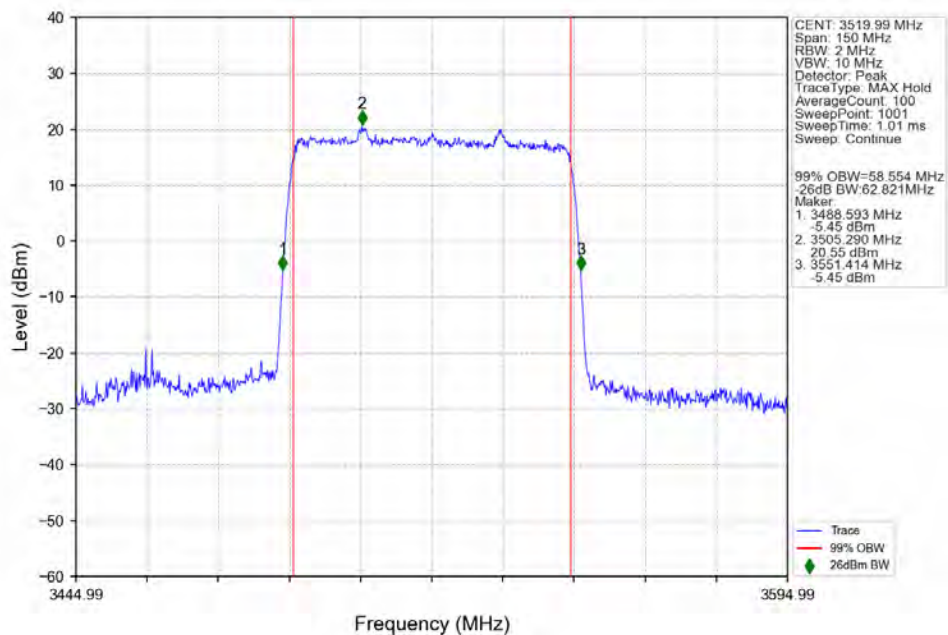
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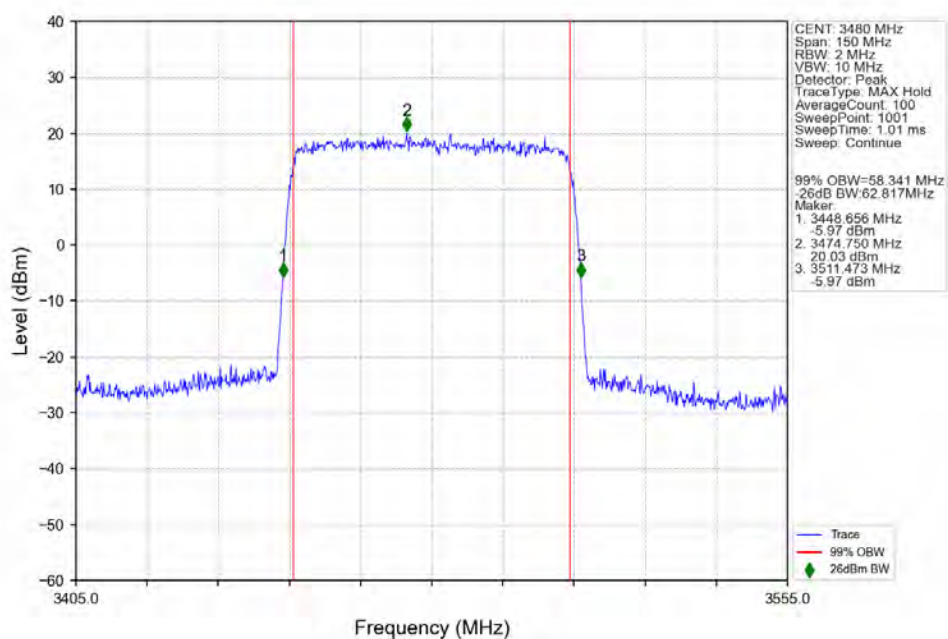
## 3.2.8 30k\_SISO\_60MHz\_NTNV



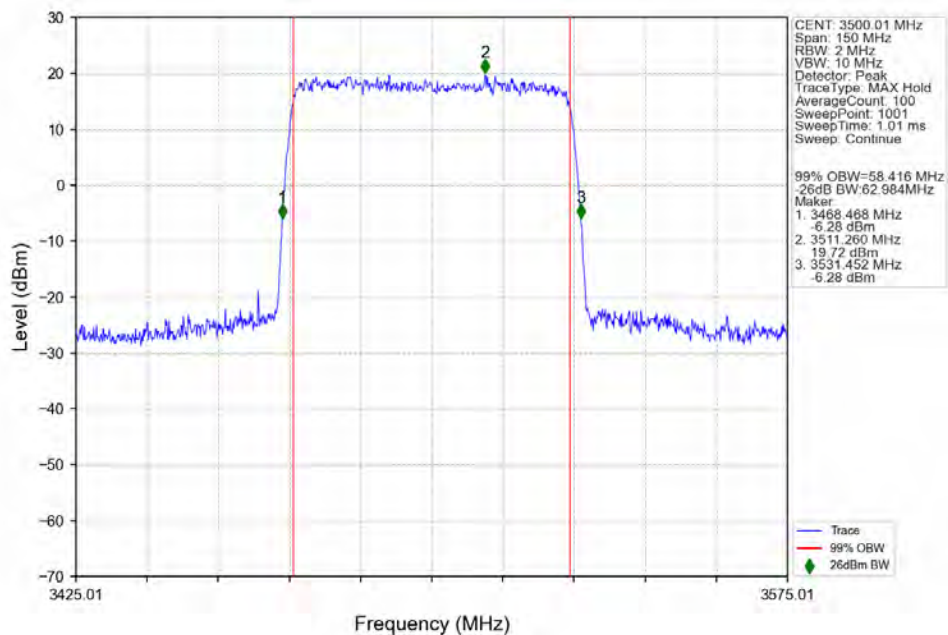
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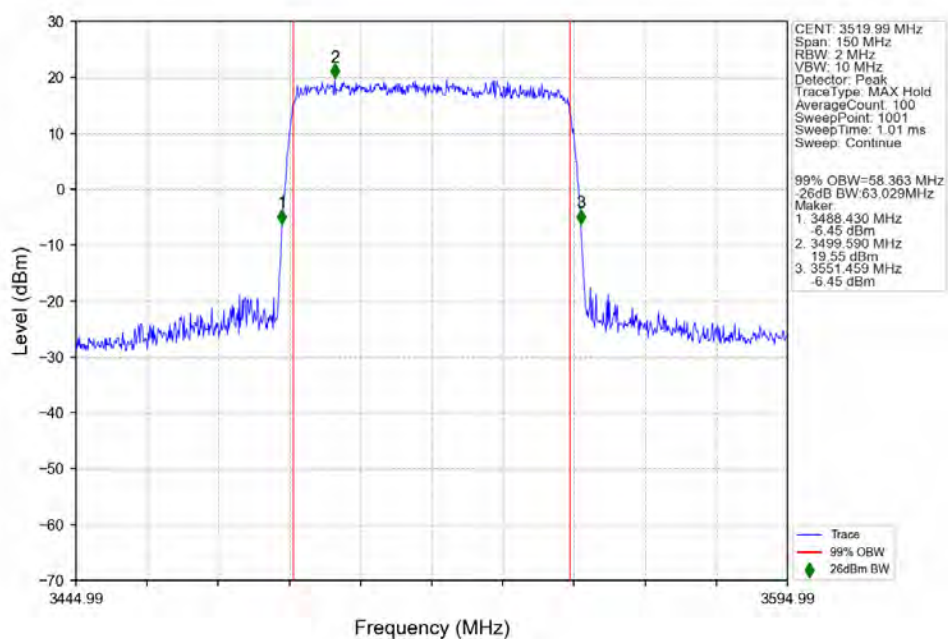
n78e\_30kHz\_SISO\_NTNV\_60MHz\_DFT-s-OFDM\_QPSK\_3480MHz\_Outer\_Full\_Ant1



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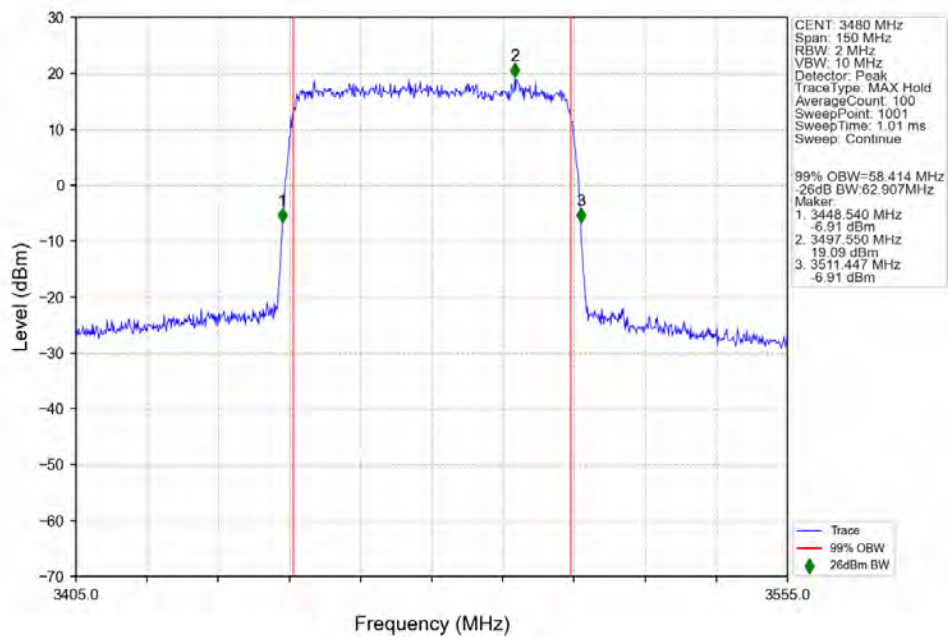


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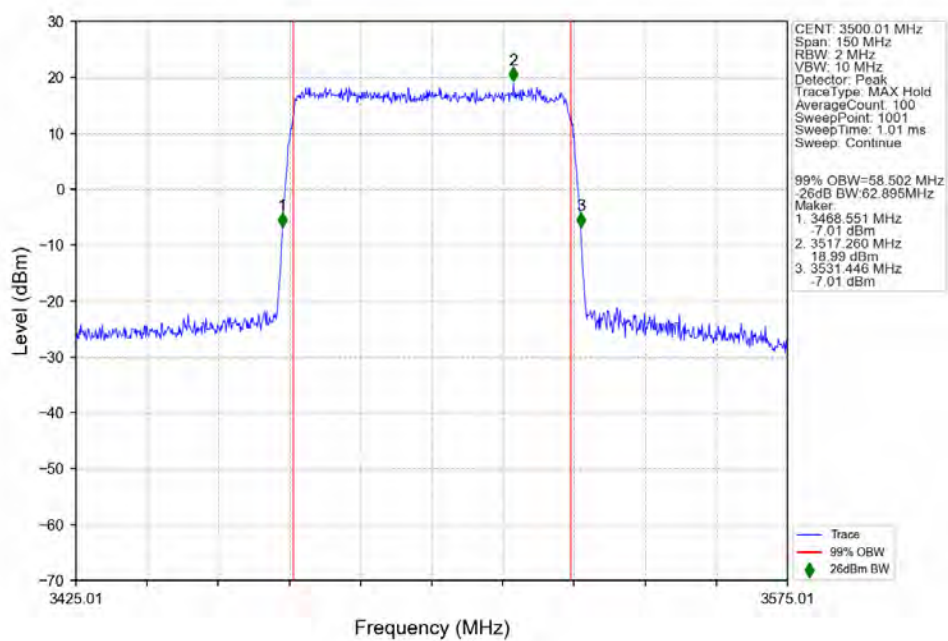




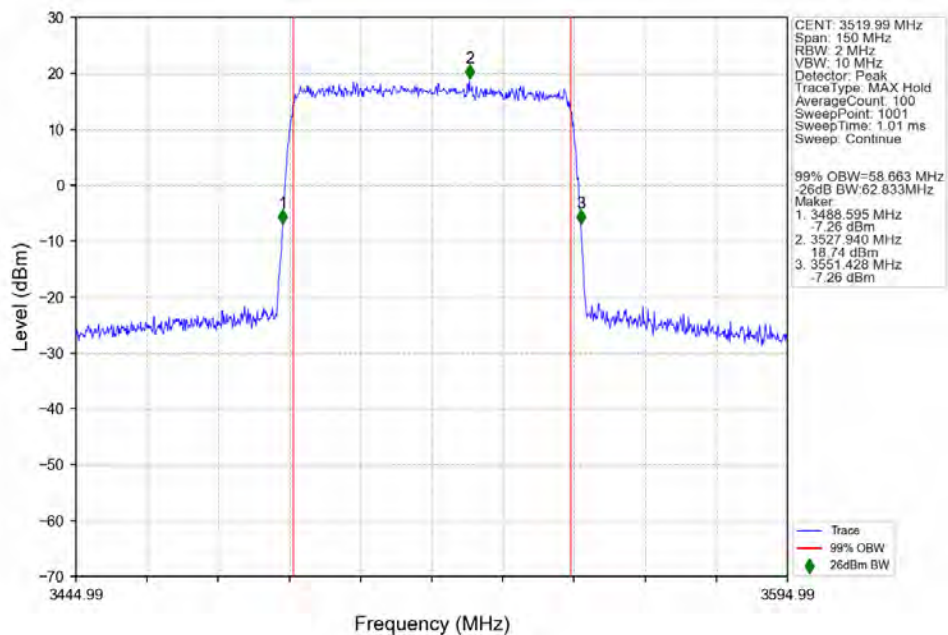
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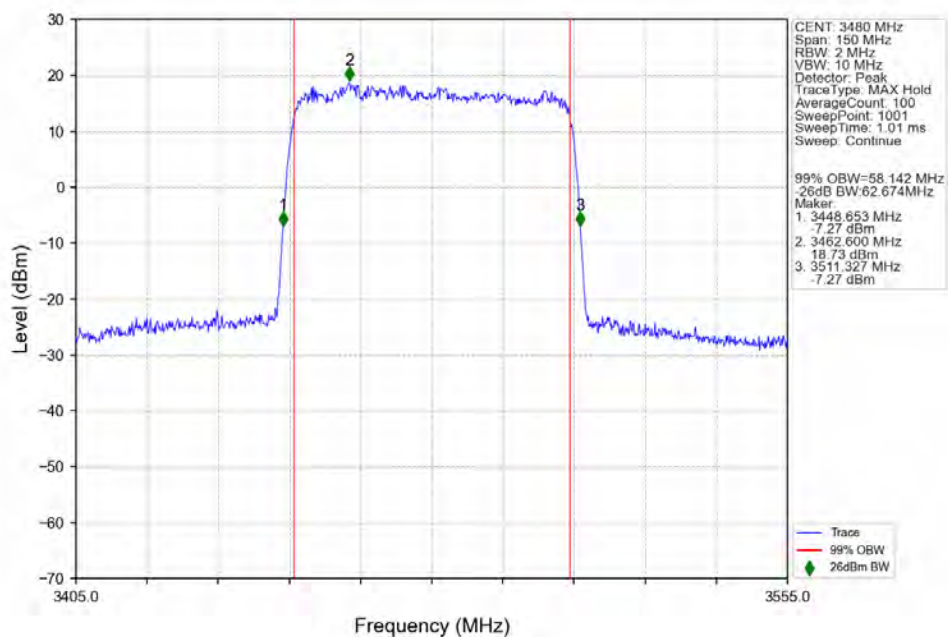
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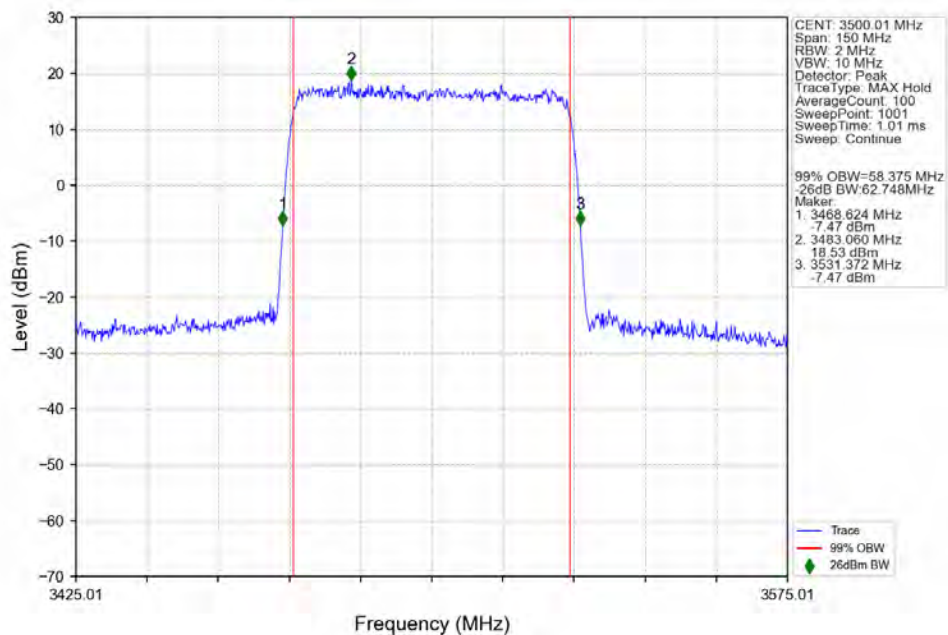
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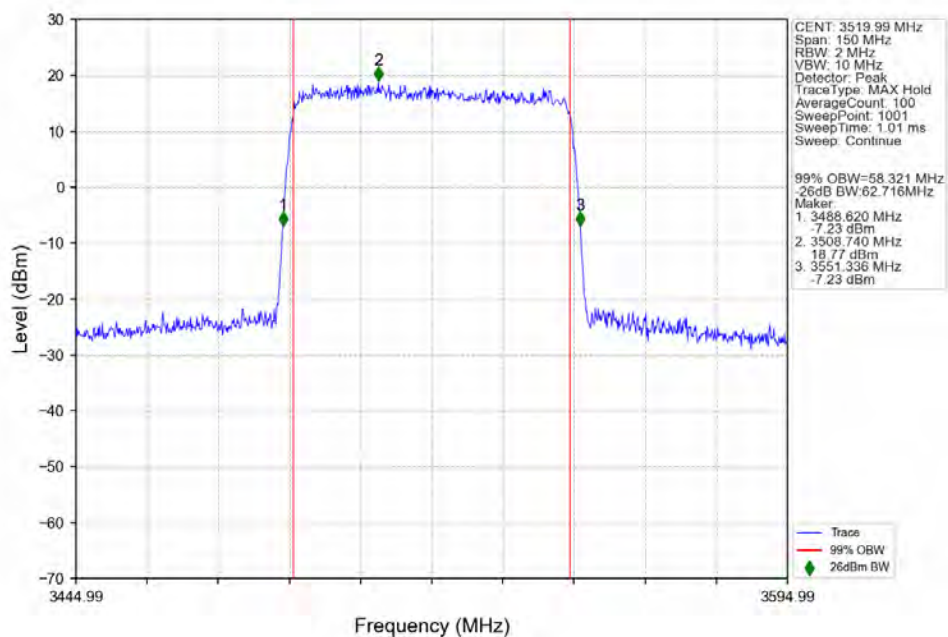
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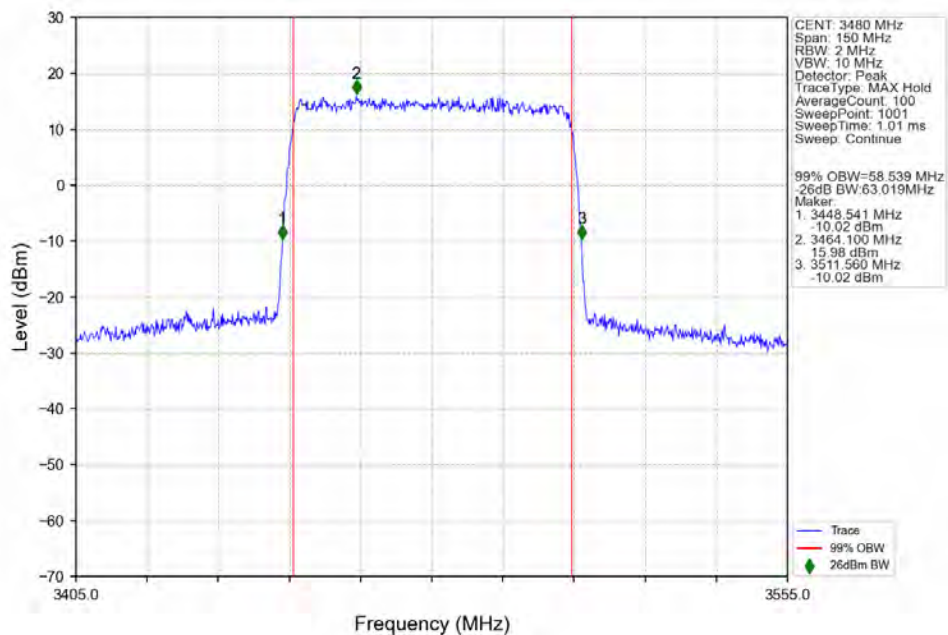
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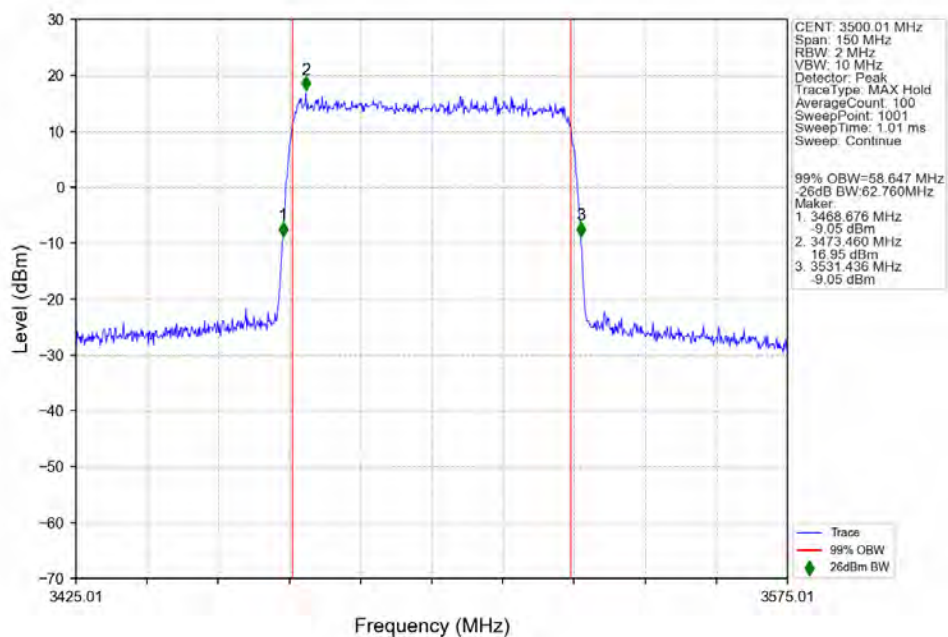
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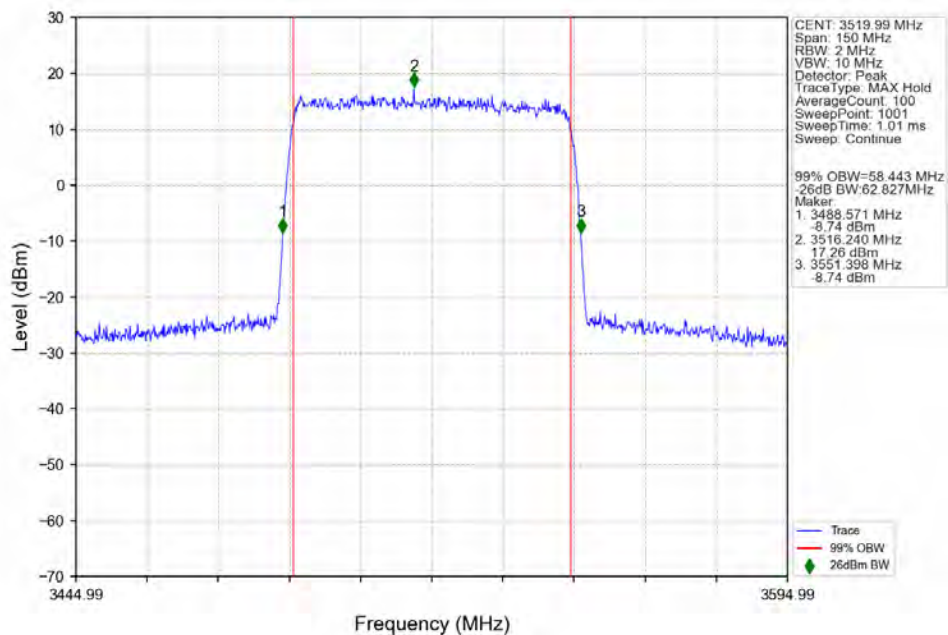
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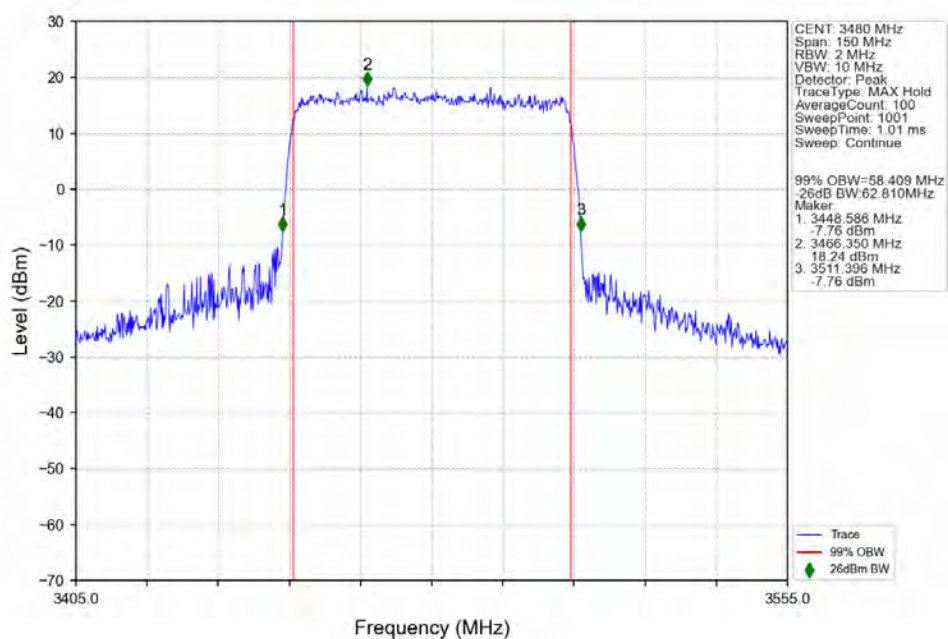
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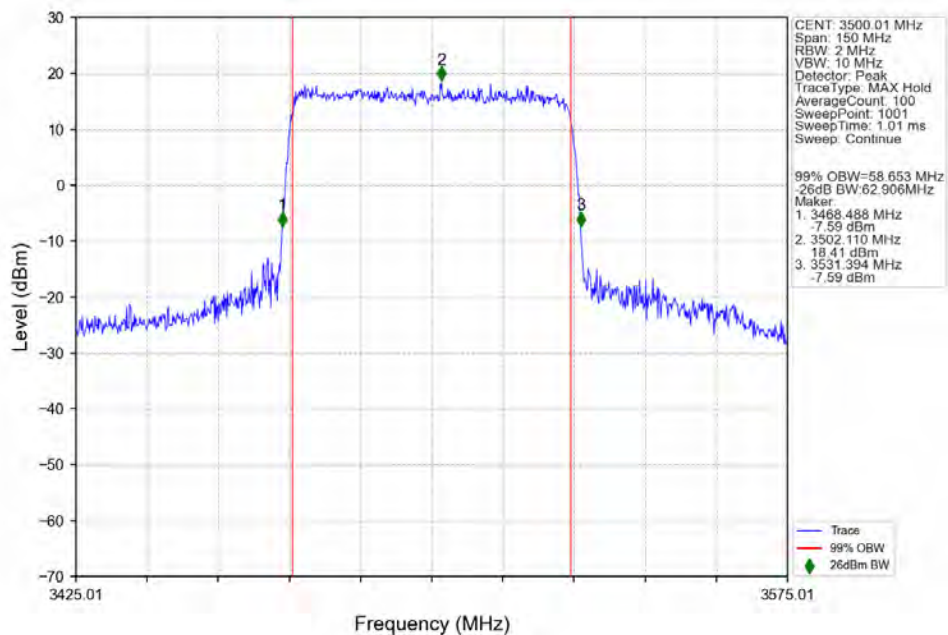


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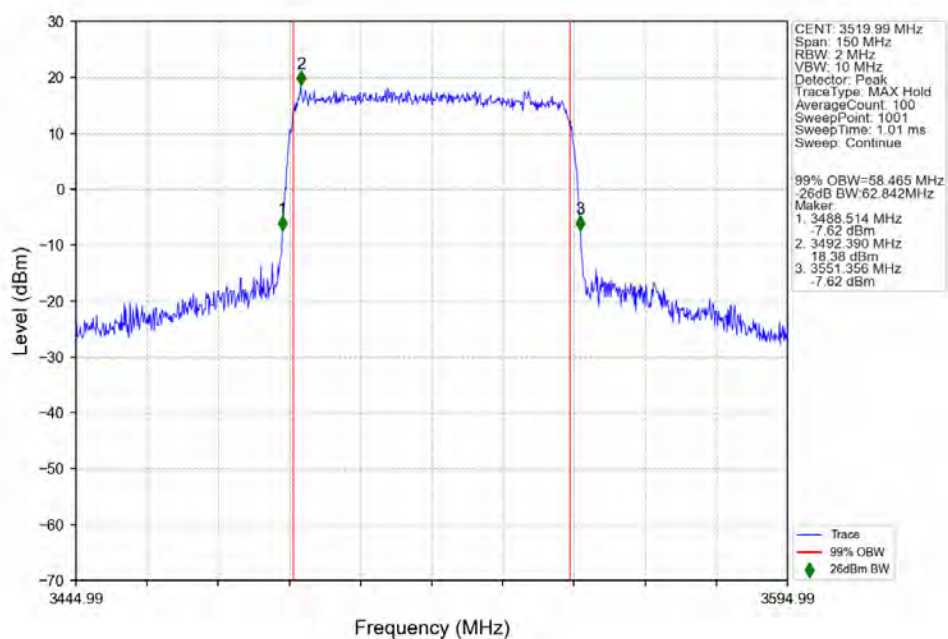




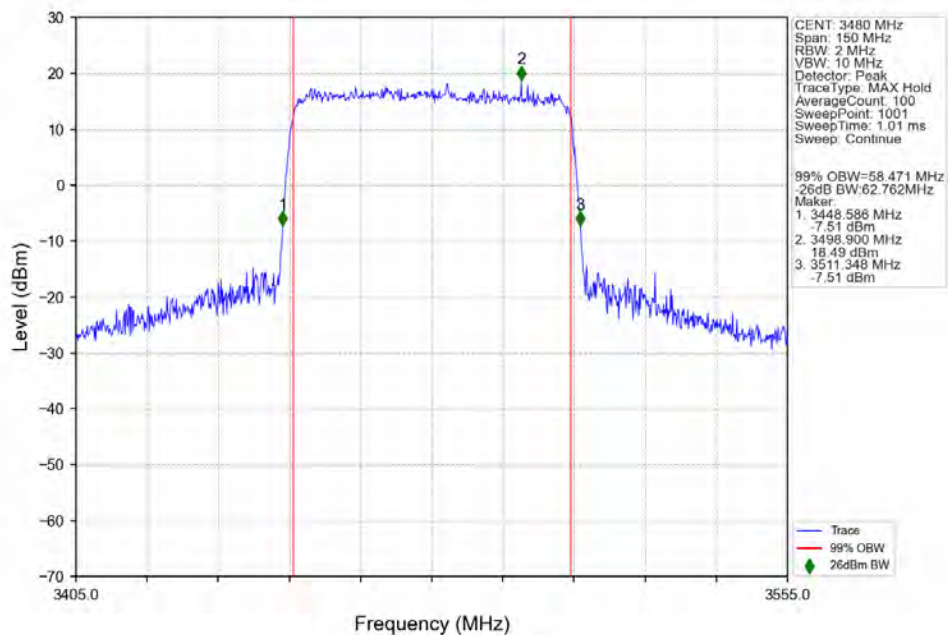
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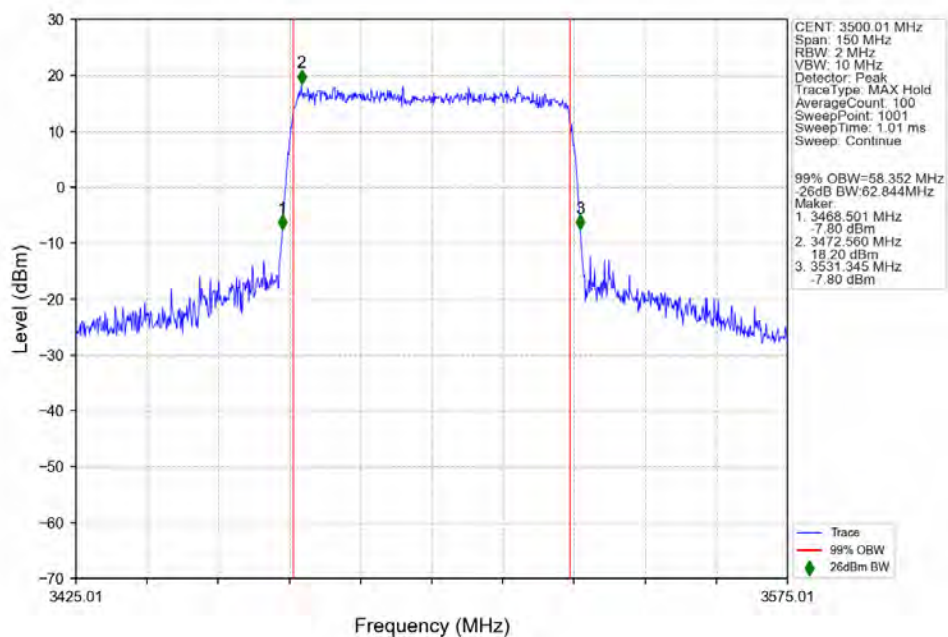
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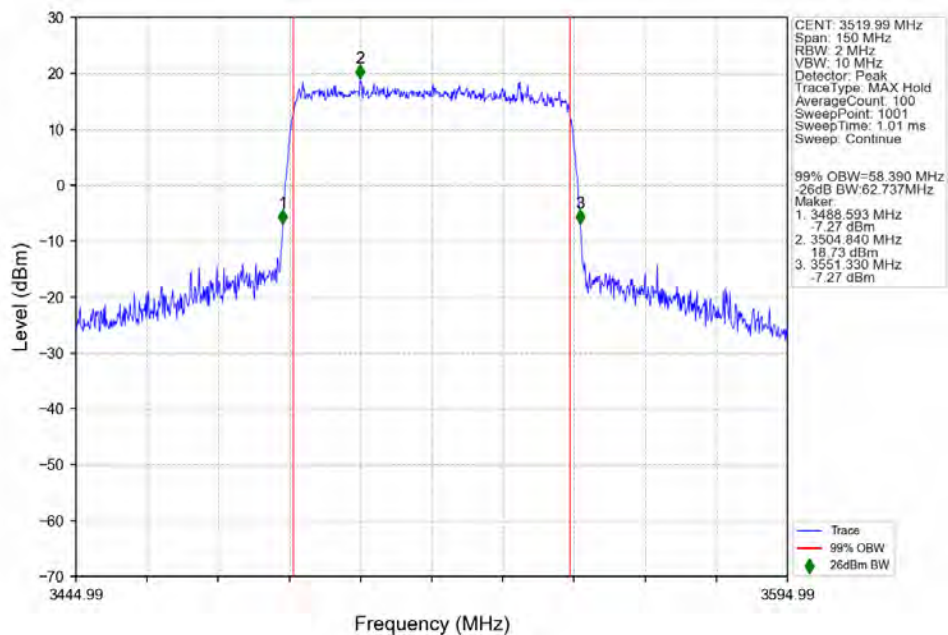
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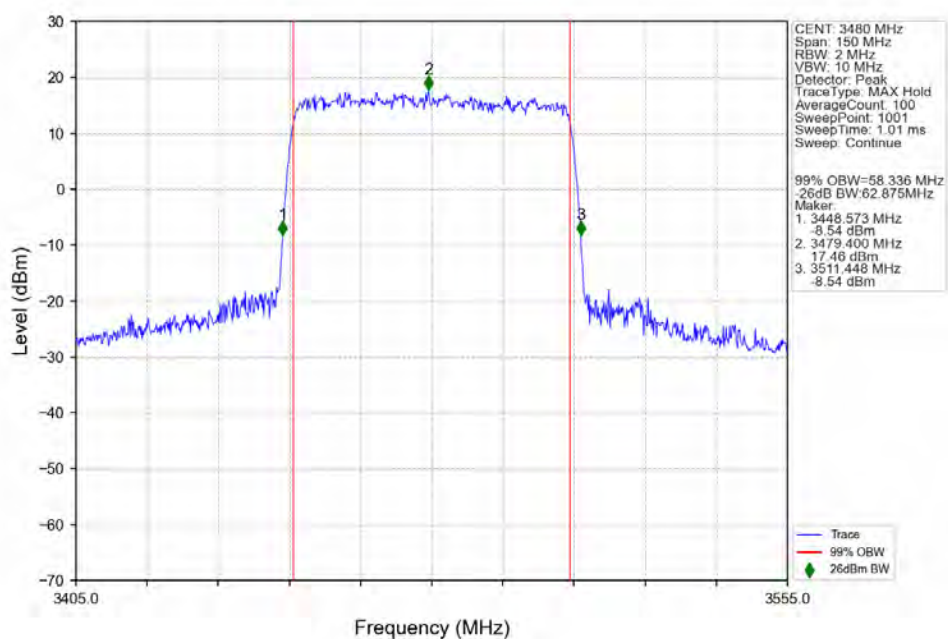
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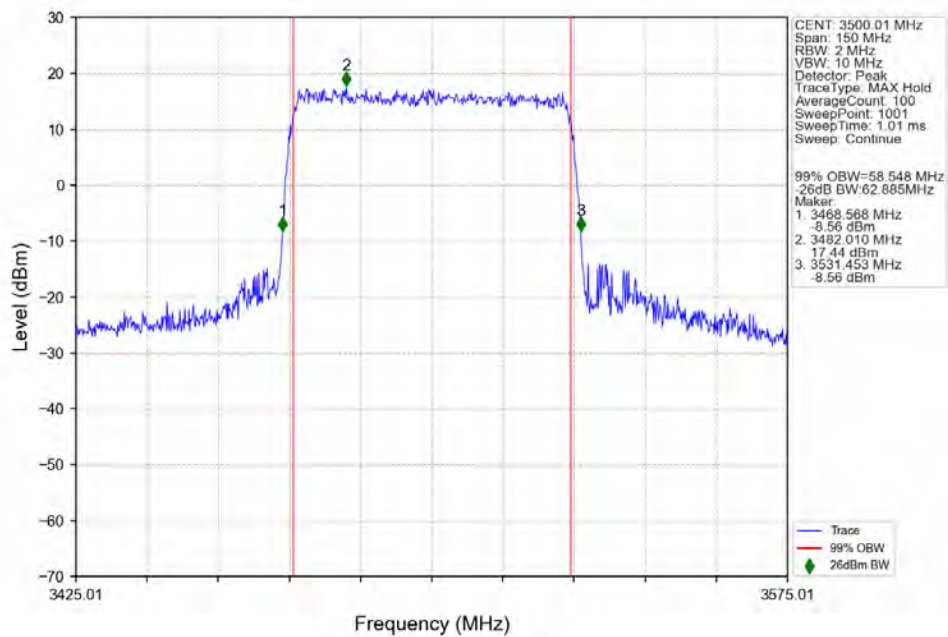
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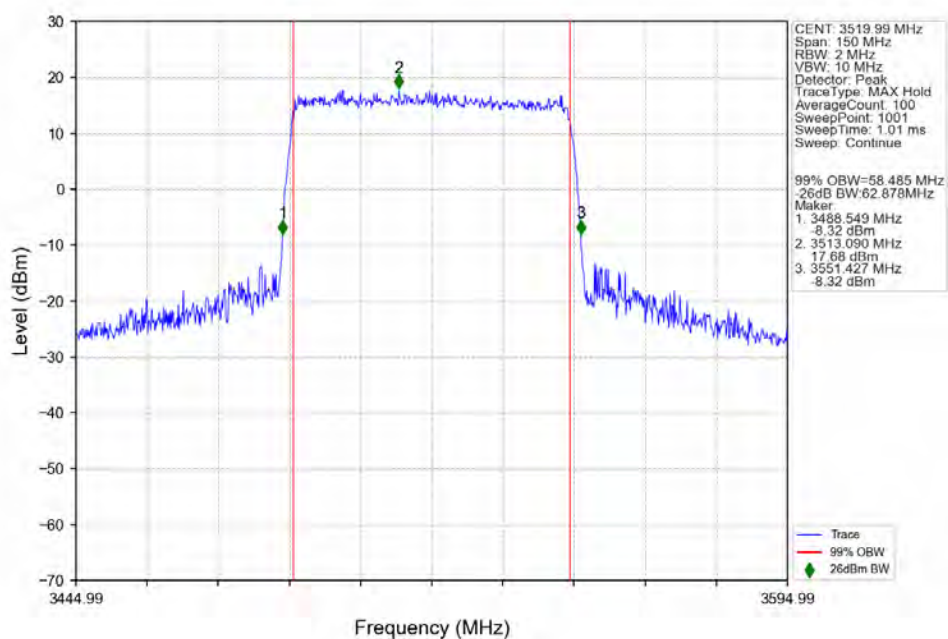
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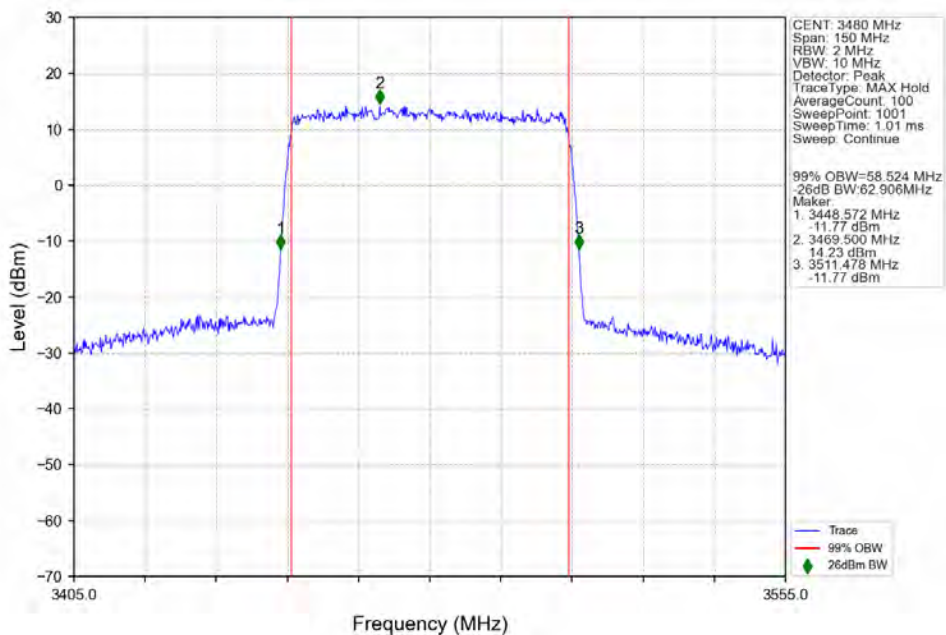
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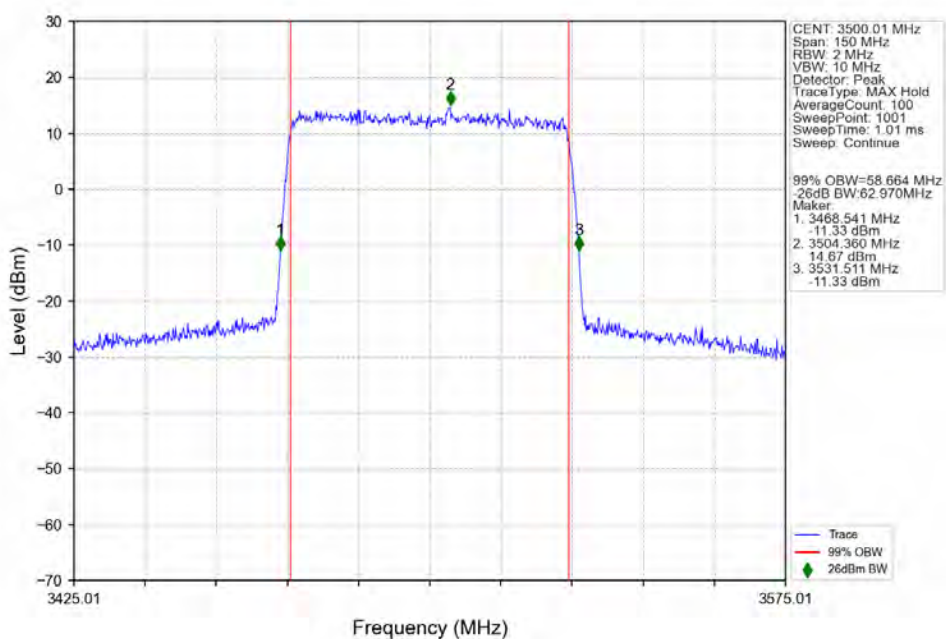
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n78e\_30kHz\_SISO\_NTNV\_60MHz\_CP-OFDM\_256\_QAM\_3480MHz\_Outer\_Full\_Ant1

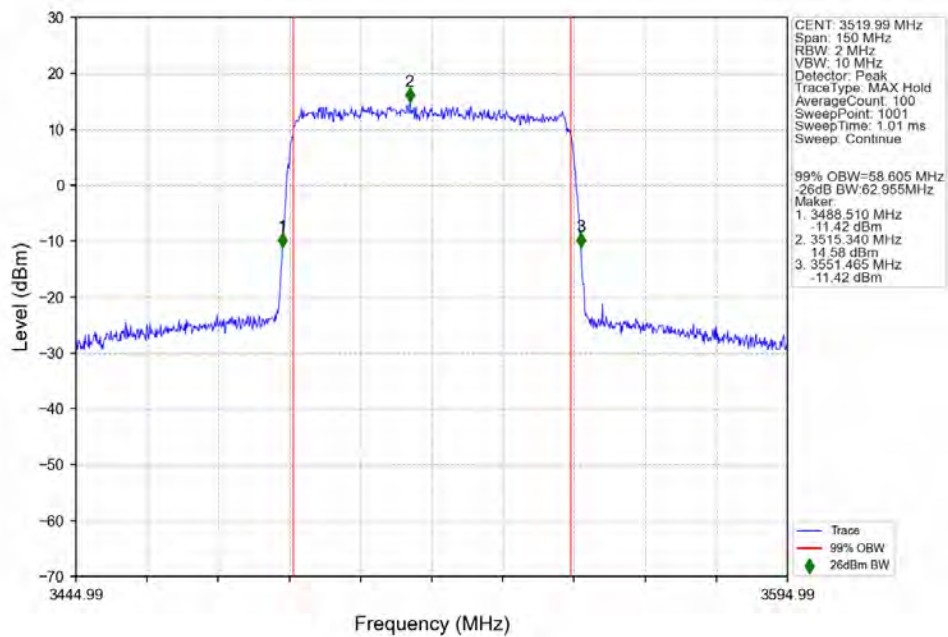


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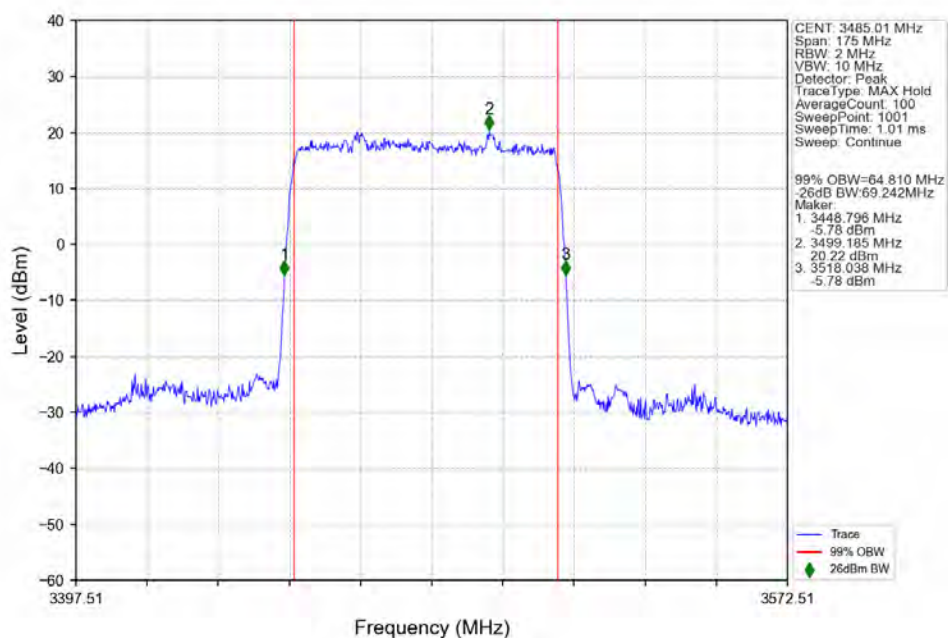


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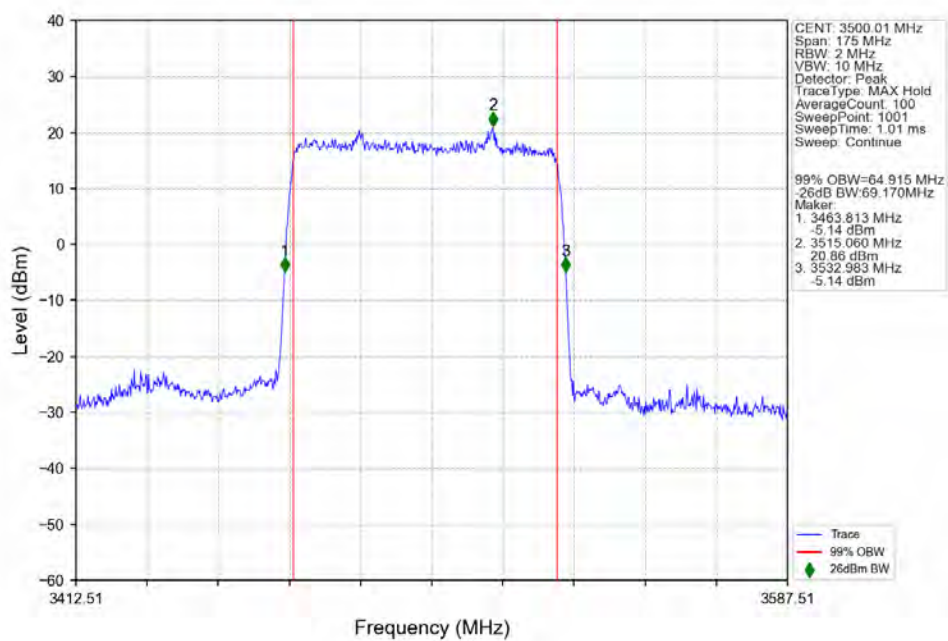


## 3.2.9 30k\_SISO\_70MHz\_NTNV

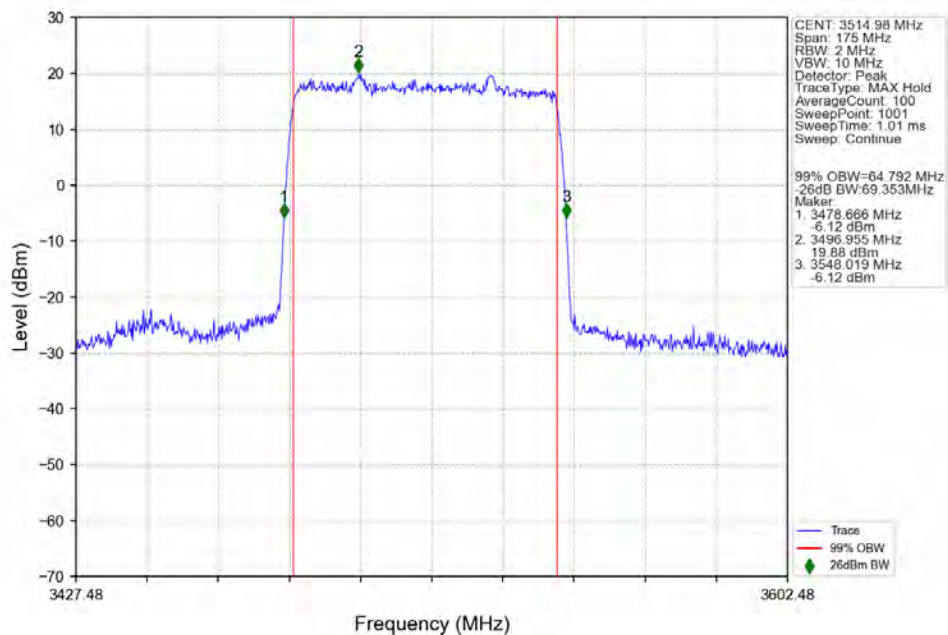
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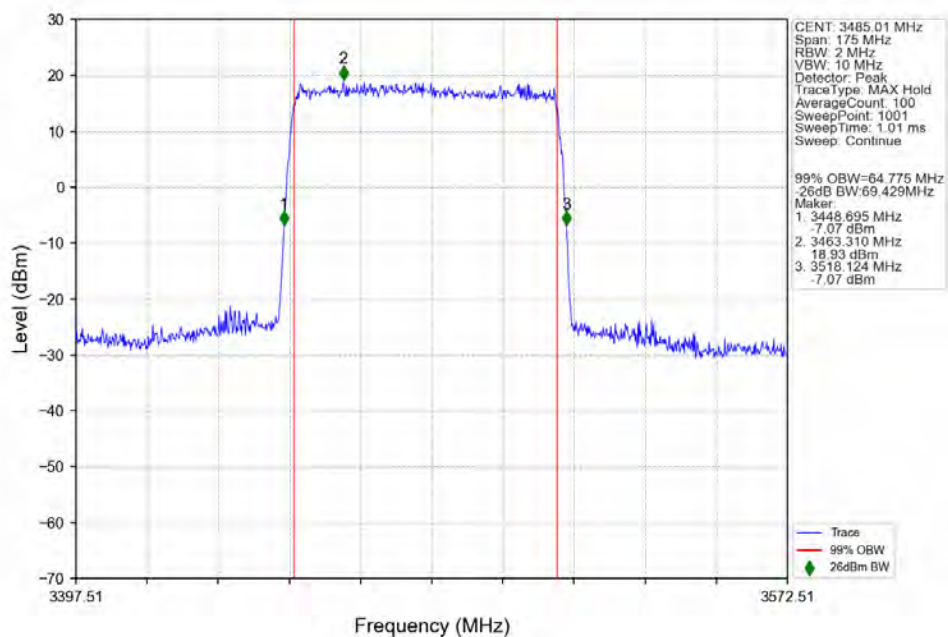
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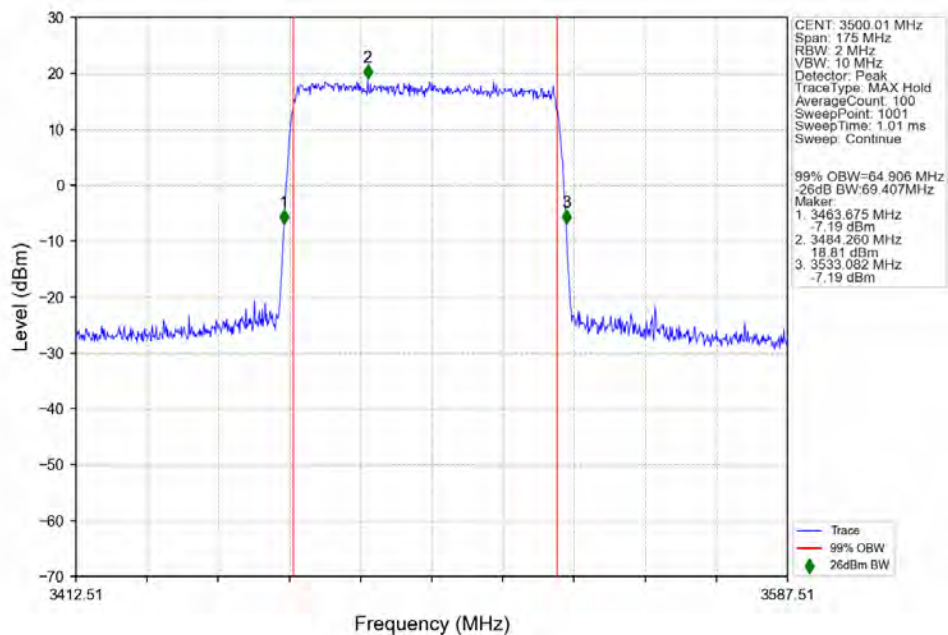
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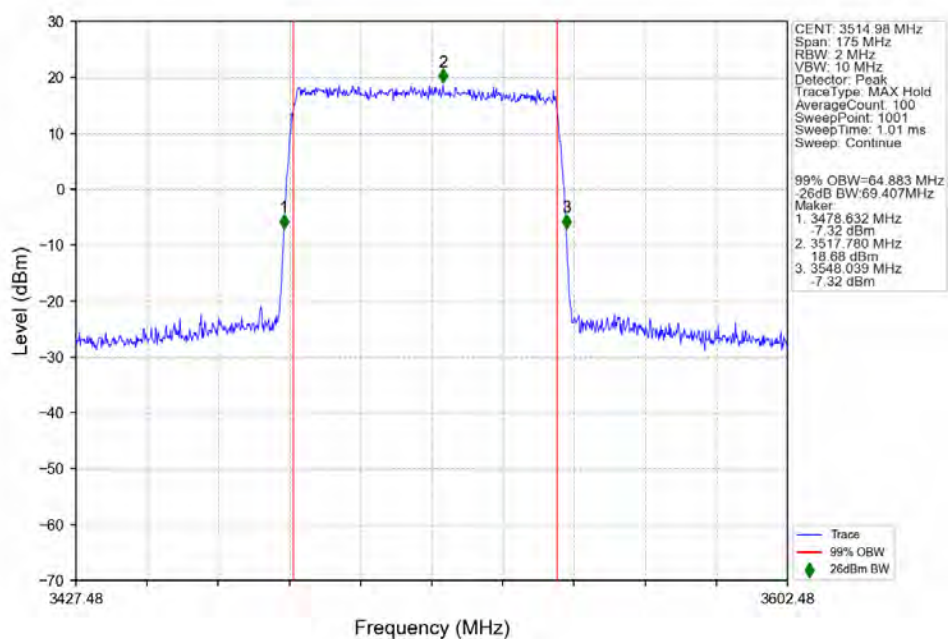
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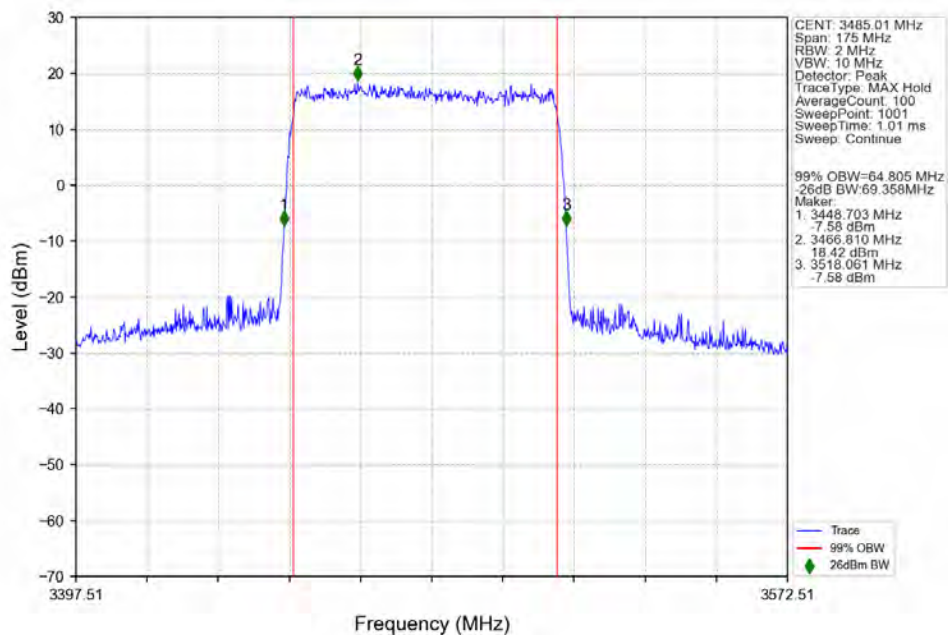
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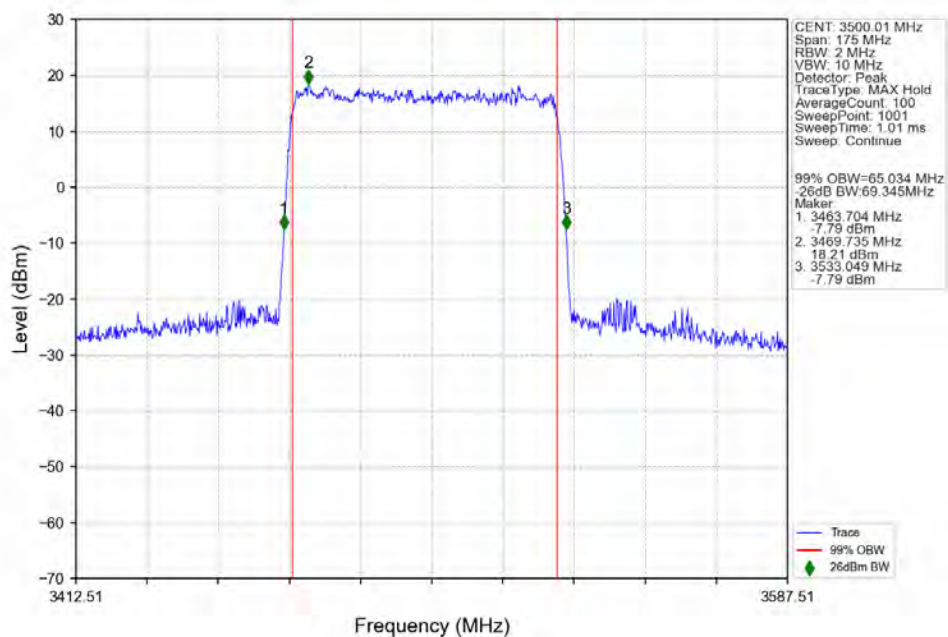
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n78e\_30kHz\_SISO\_NTNV\_70MHz\_DFT-s-OFDM\_16\_QAM\_3485.01MHz\_Outer\_Full\_Ant1

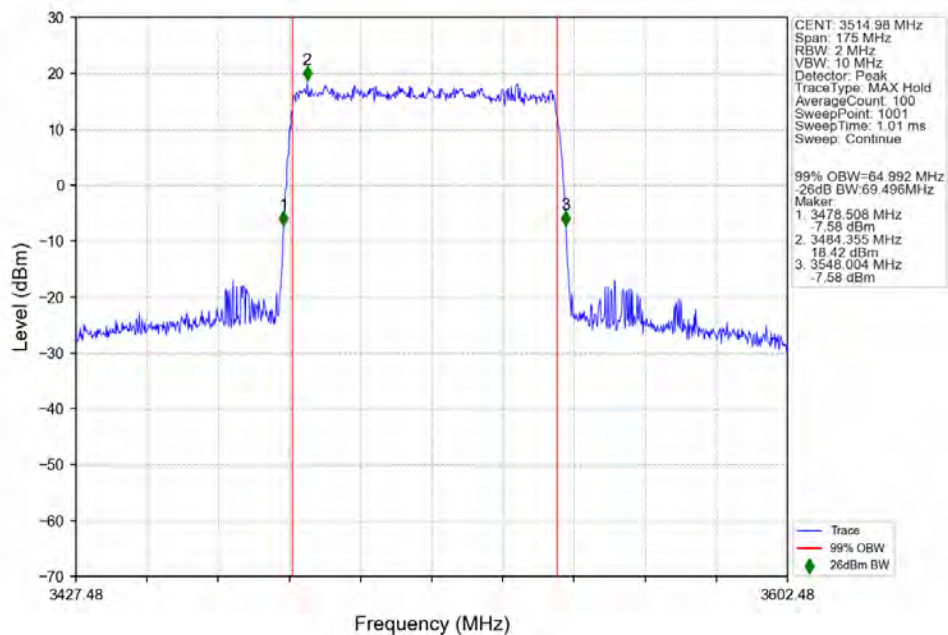


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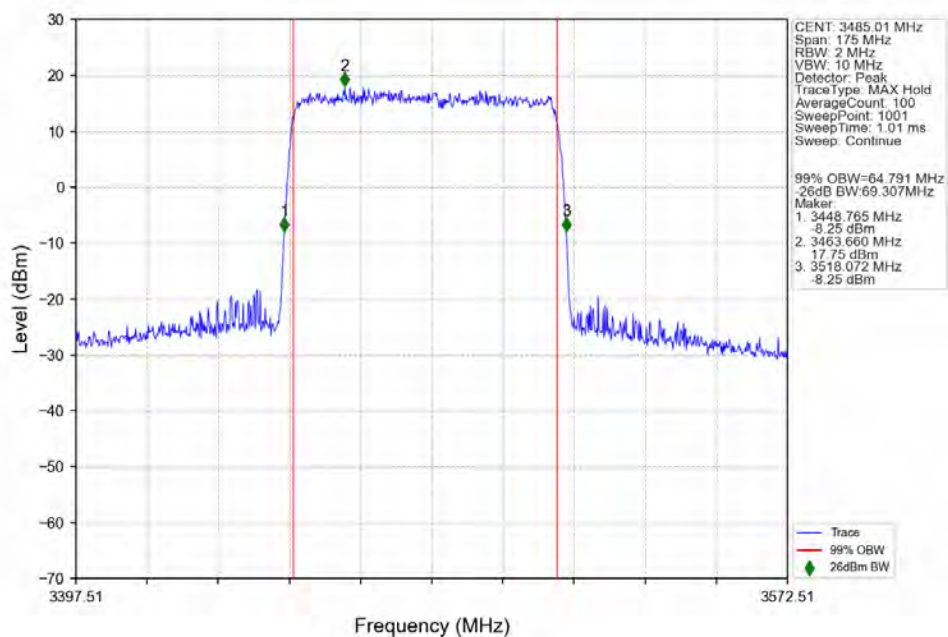




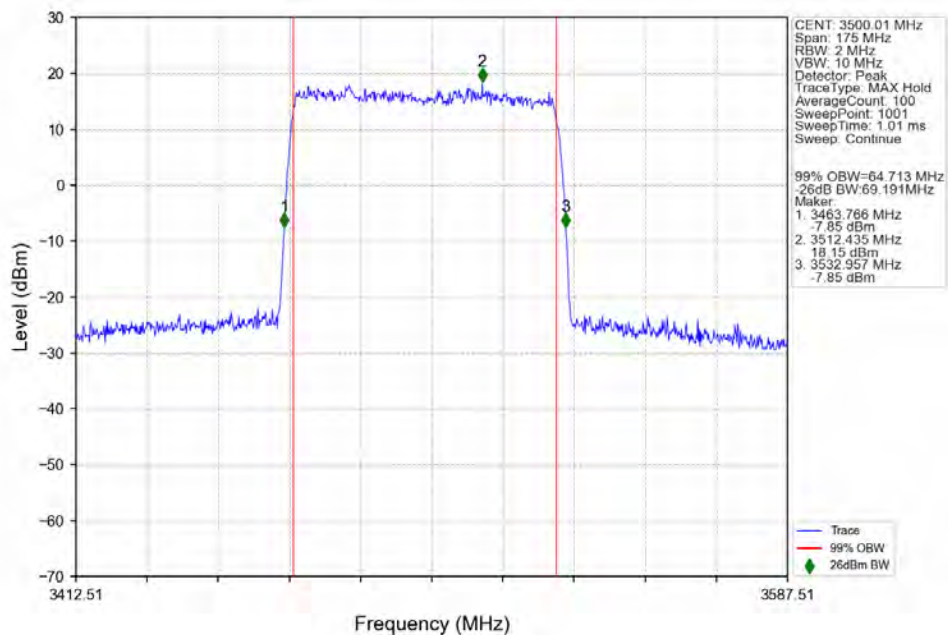
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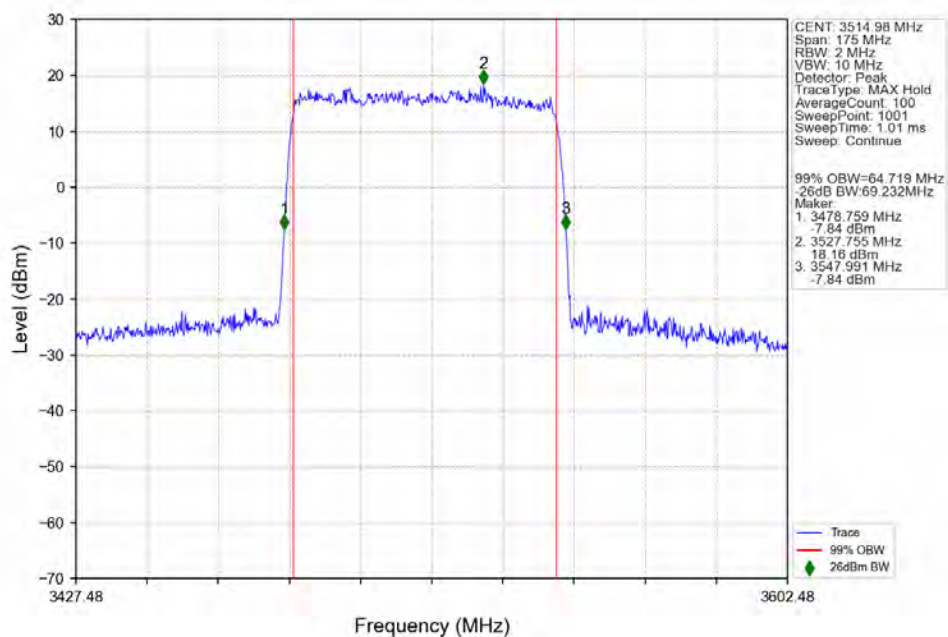
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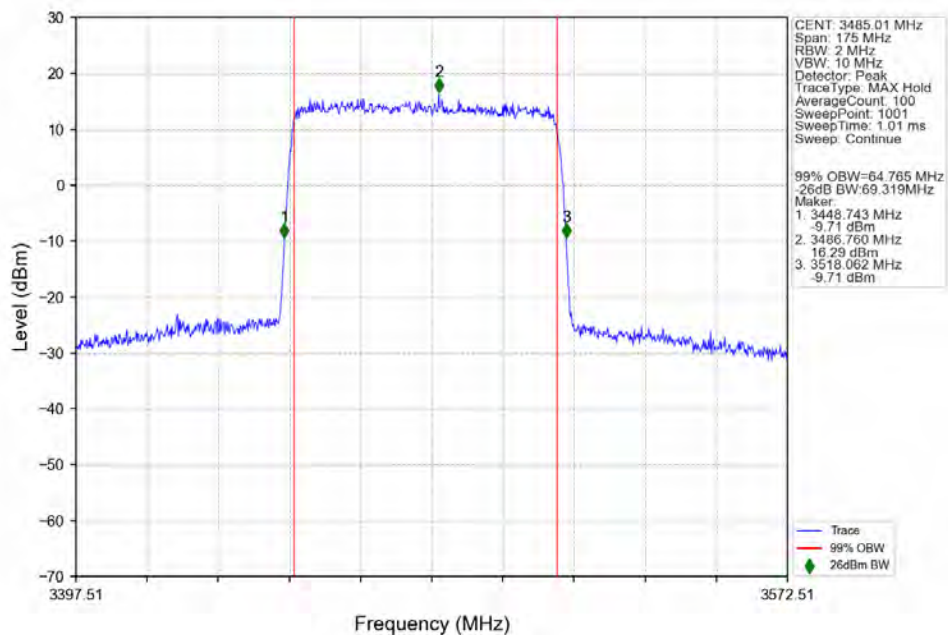
n78e 30kHz SISO NTN 70MHz DFT-s-OFDM 64 QAM 3500.01MHz Outer Full Ant1



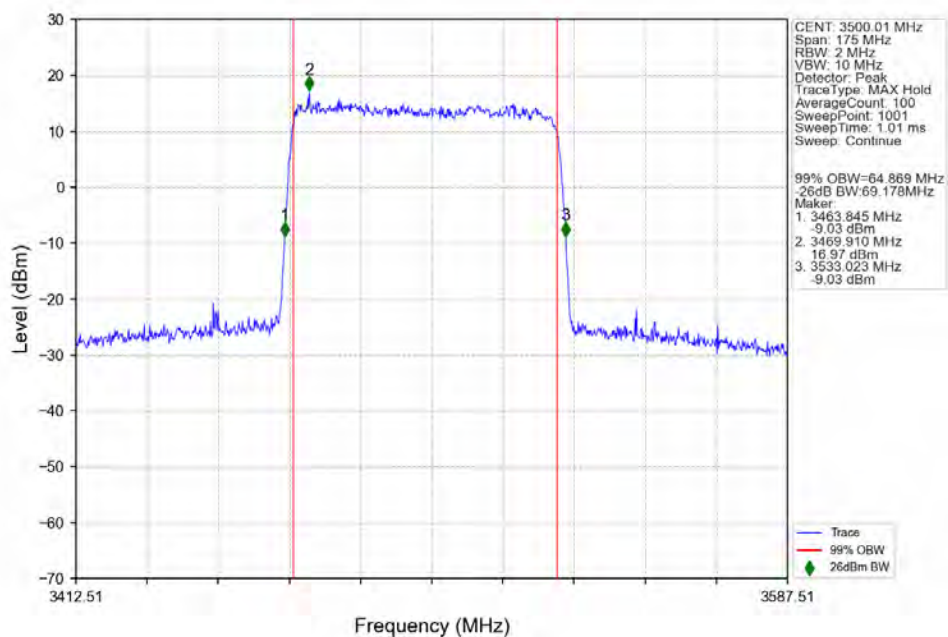
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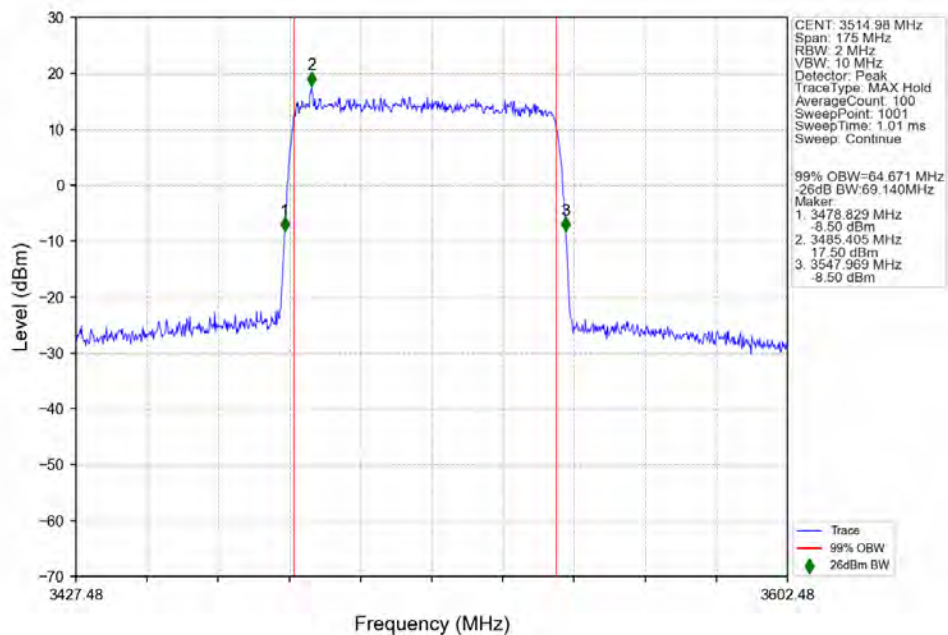
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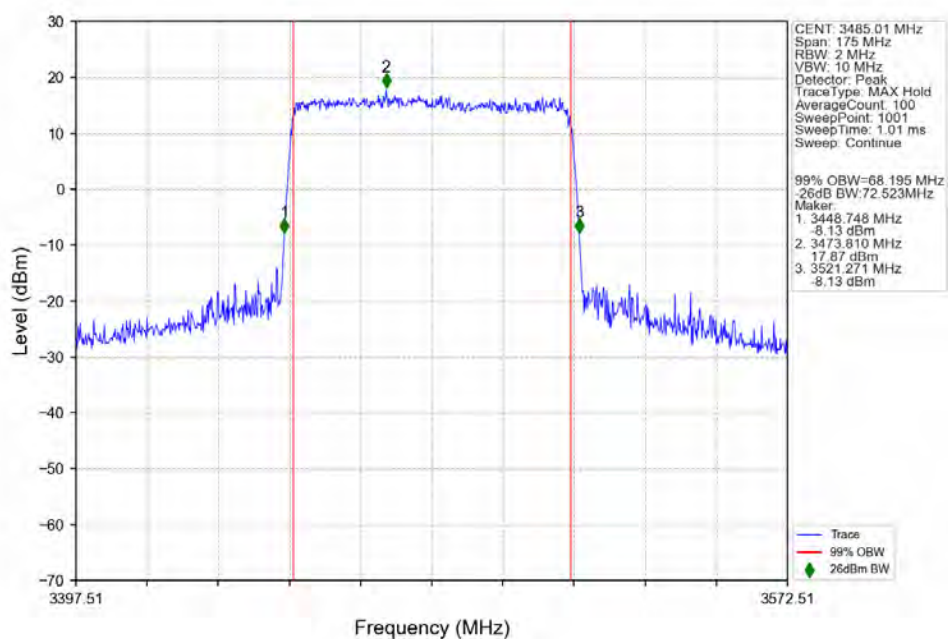
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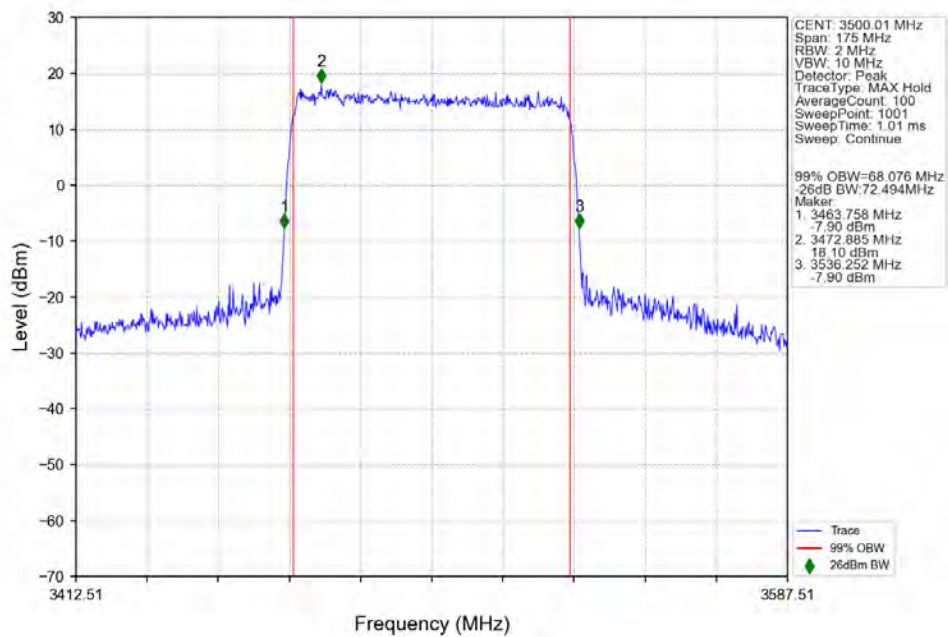
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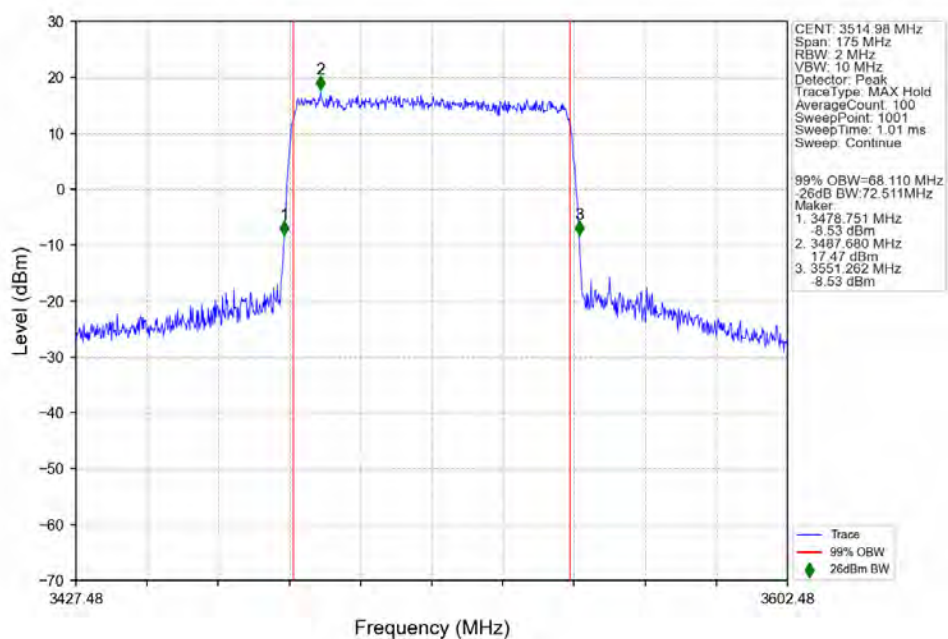
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n78e\_30kHz\_SISO\_NTNV\_70MHz\_CP-OFDM\_QPSK\_3500.01MHz\_Outer\_Full\_Ant1

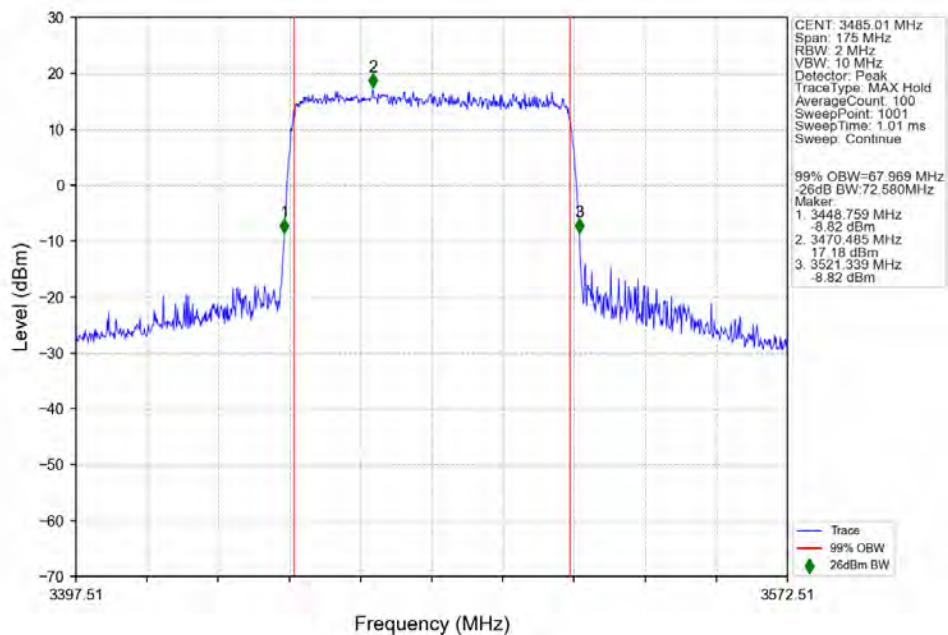


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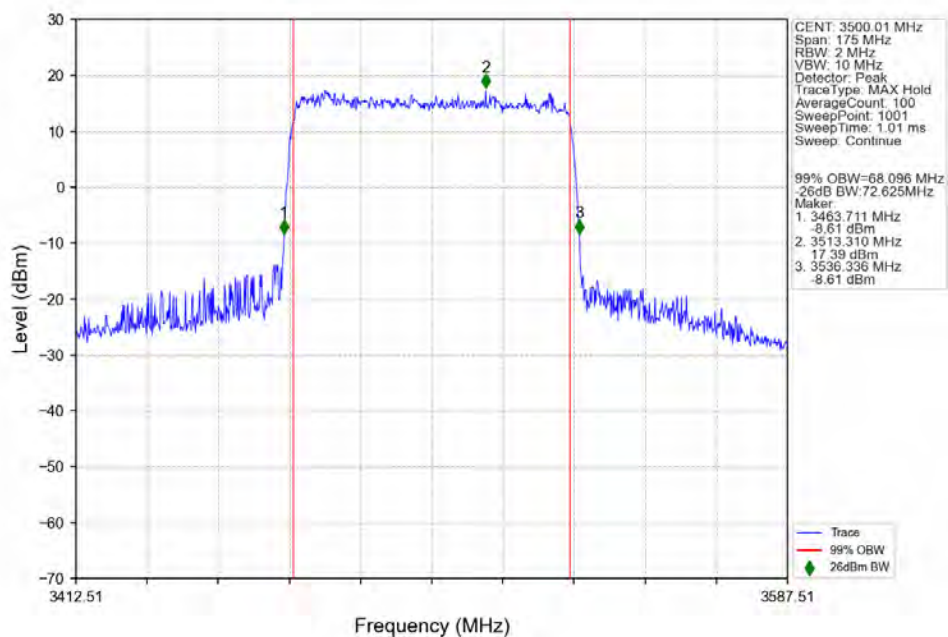




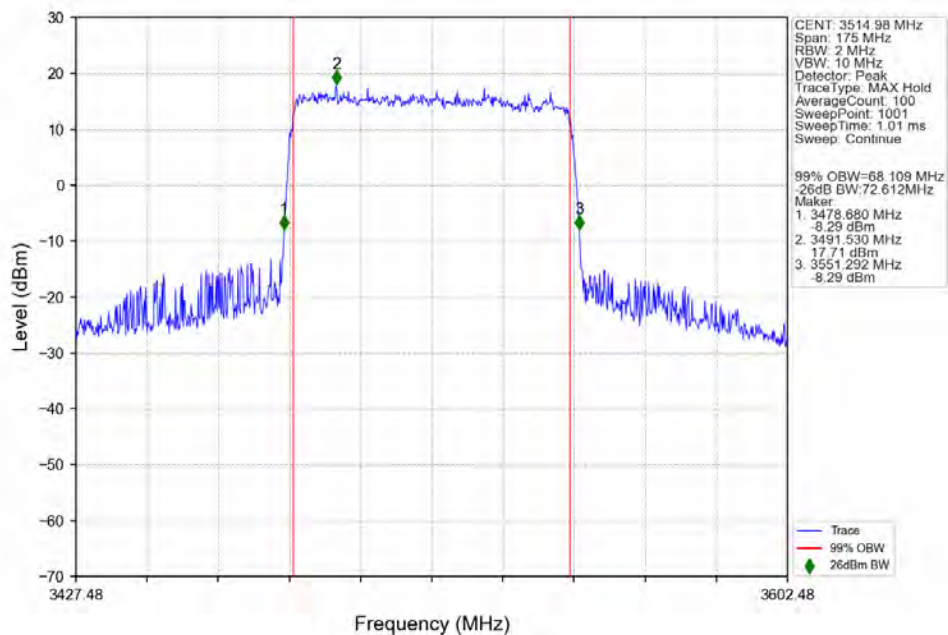
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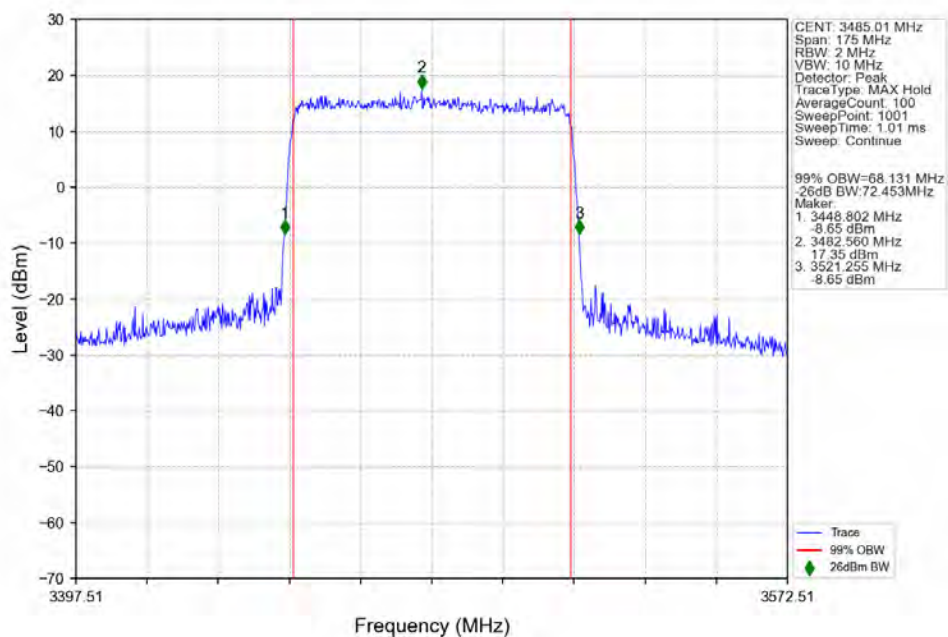
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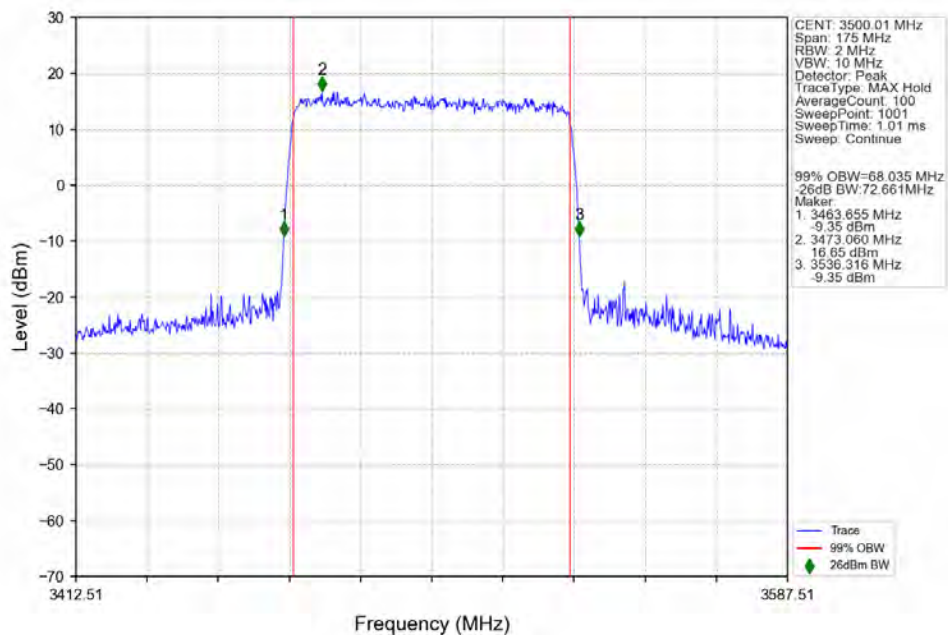
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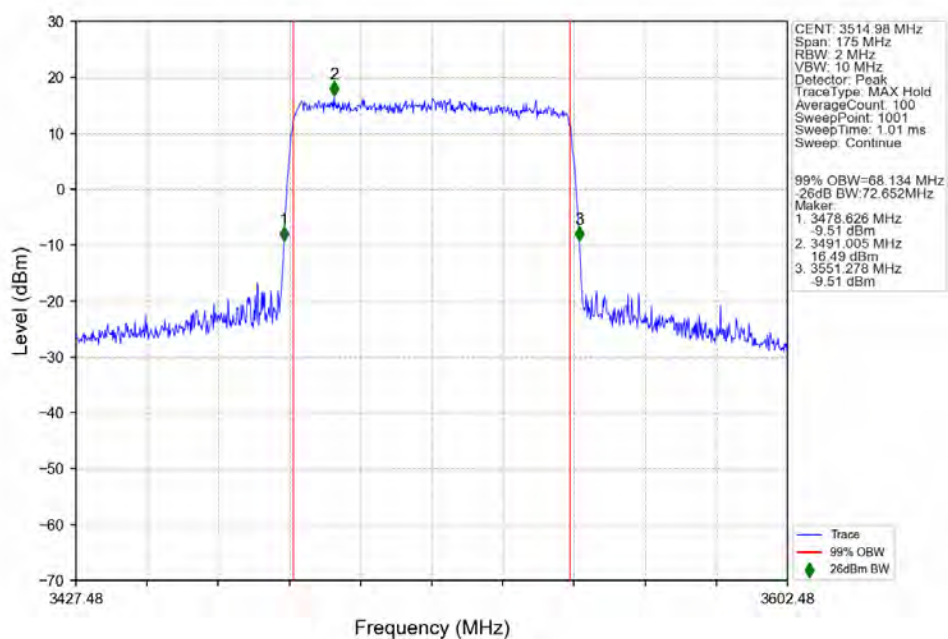
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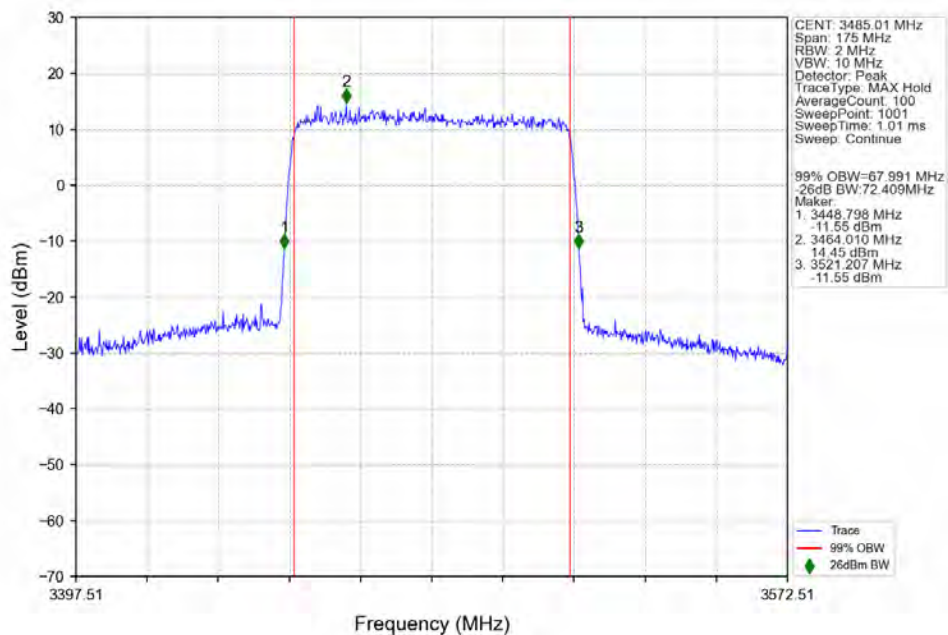
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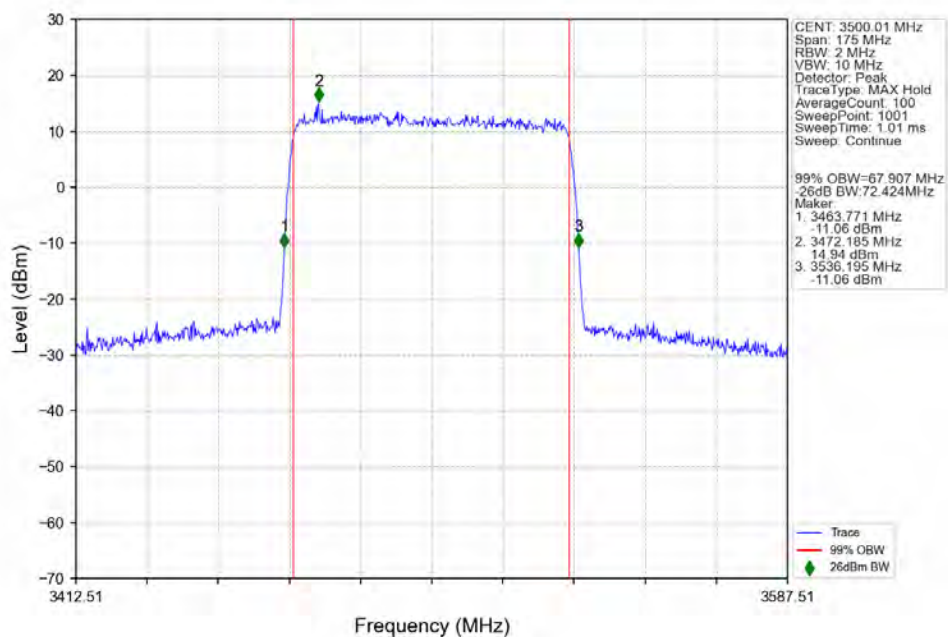
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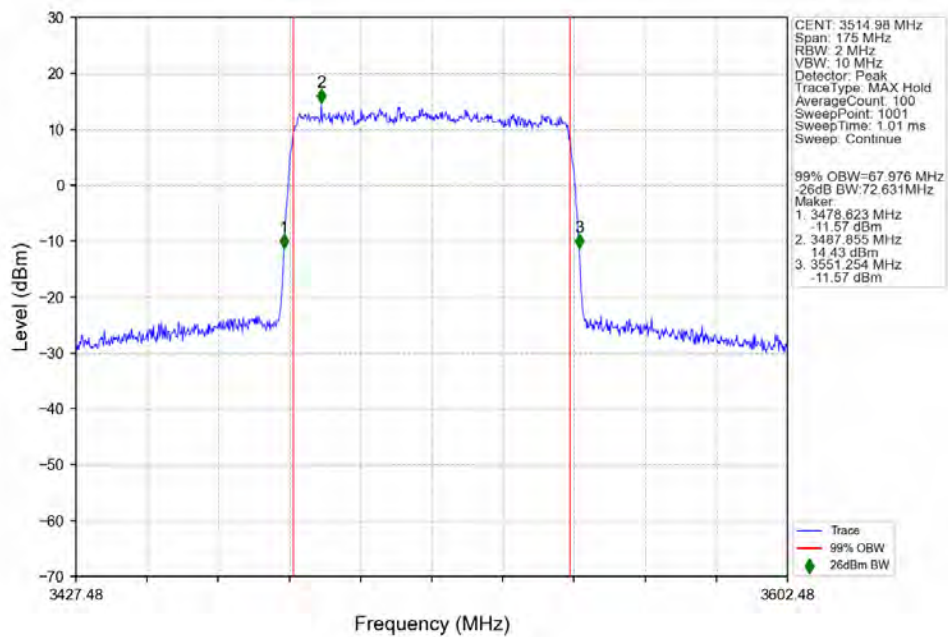
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n78e\_30kHz\_SISO\_NTNV\_70MHz\_CP-OFDM\_256\_QAM\_3500.01MHz\_Outer\_Full\_Ant1

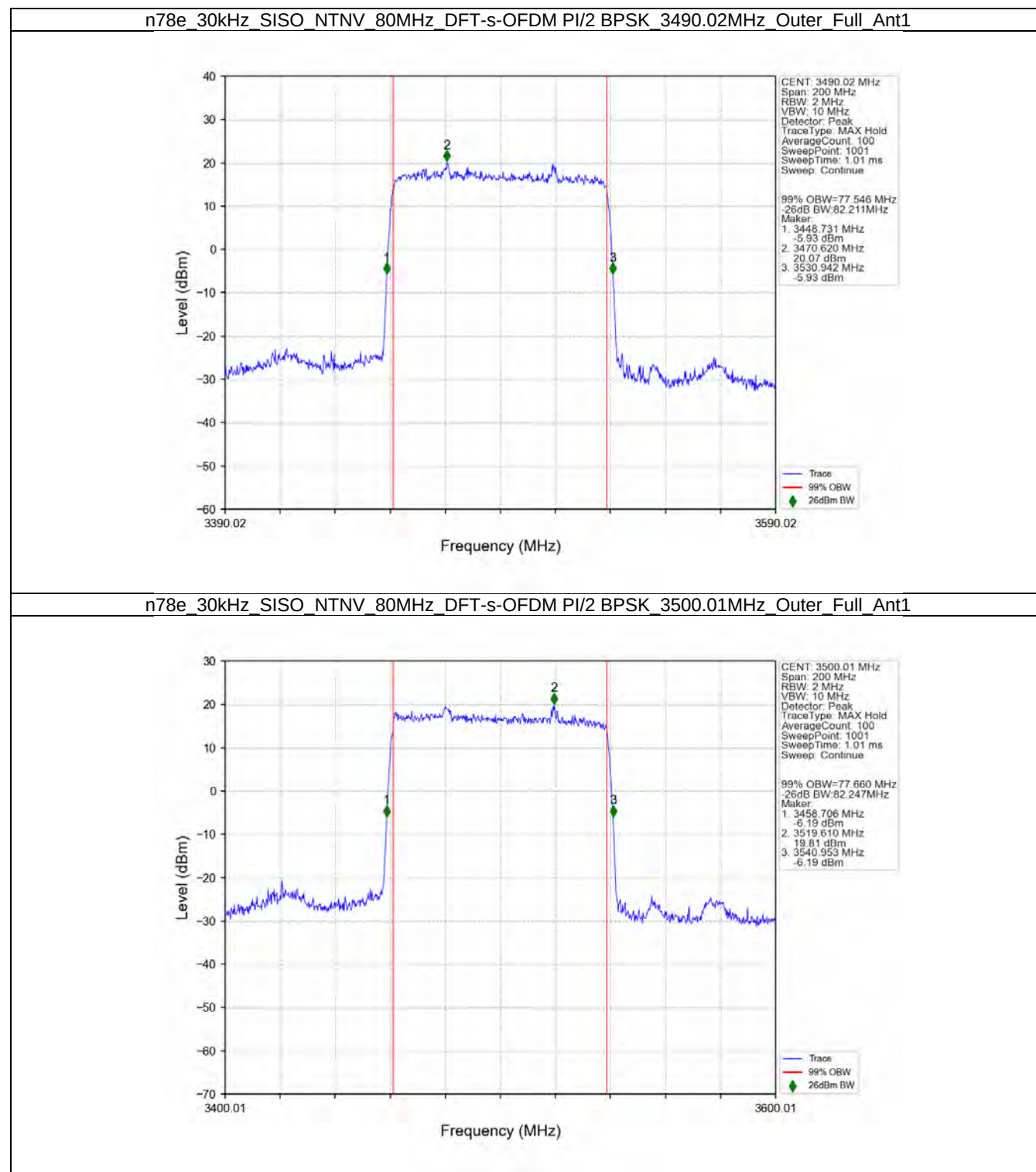


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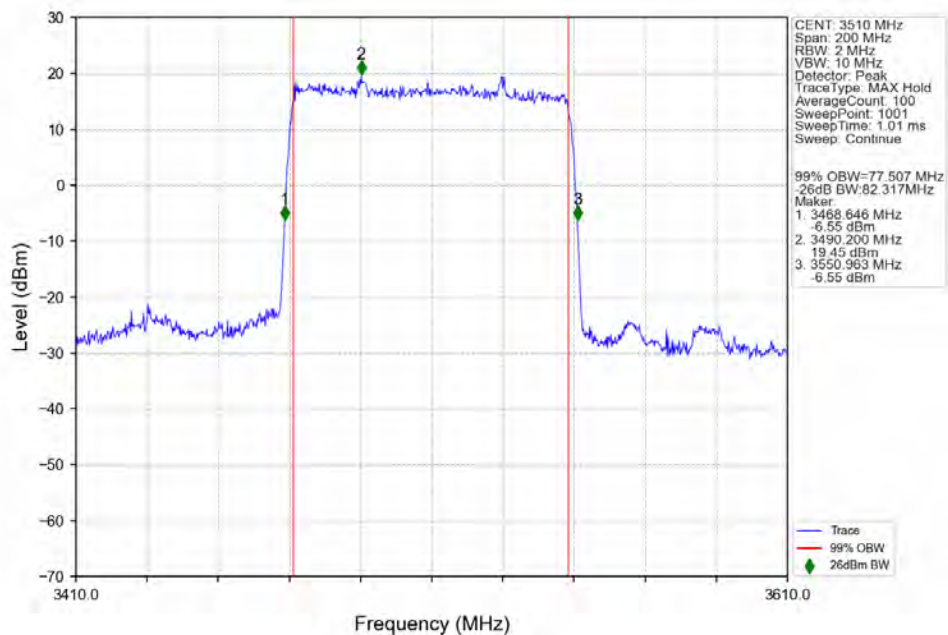




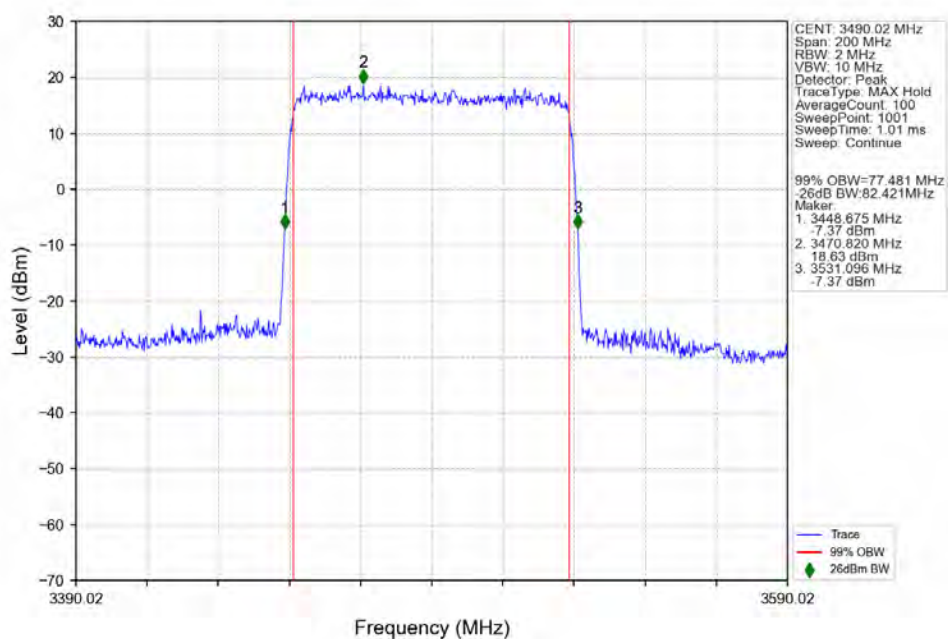
## 3.2.10 30k\_SISO\_80MHz\_NTNV



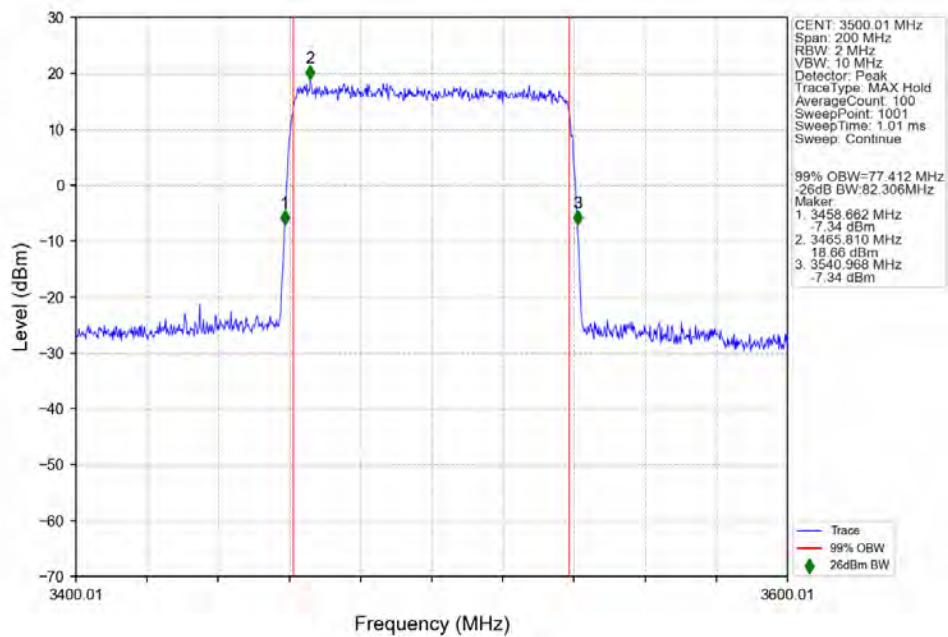
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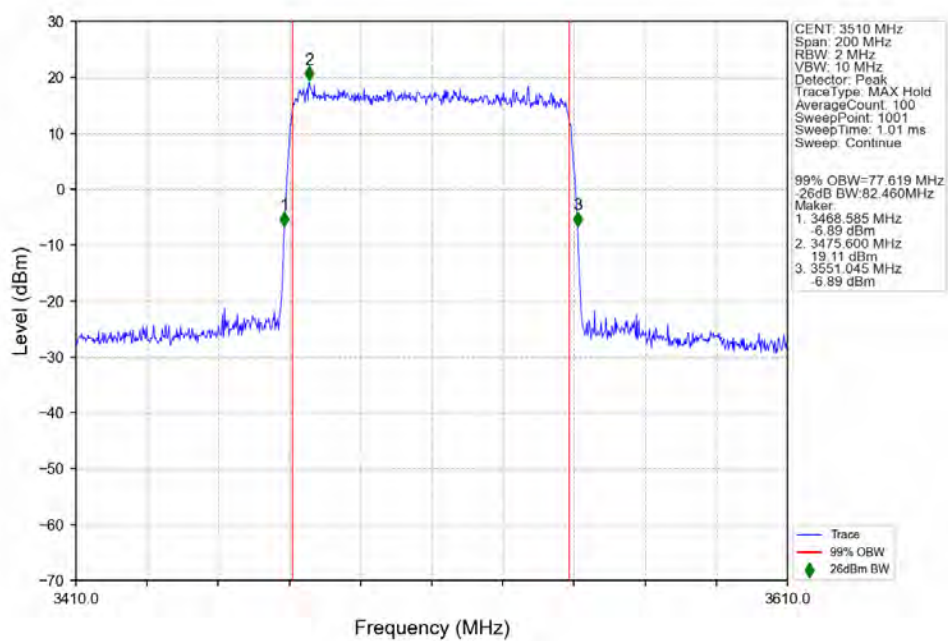
n78e\_30kHz\_SISO\_NTNV\_80MHz\_DFT-s-OFDM\_QPSK\_3490.02MHz\_Outer\_Full\_Ant1



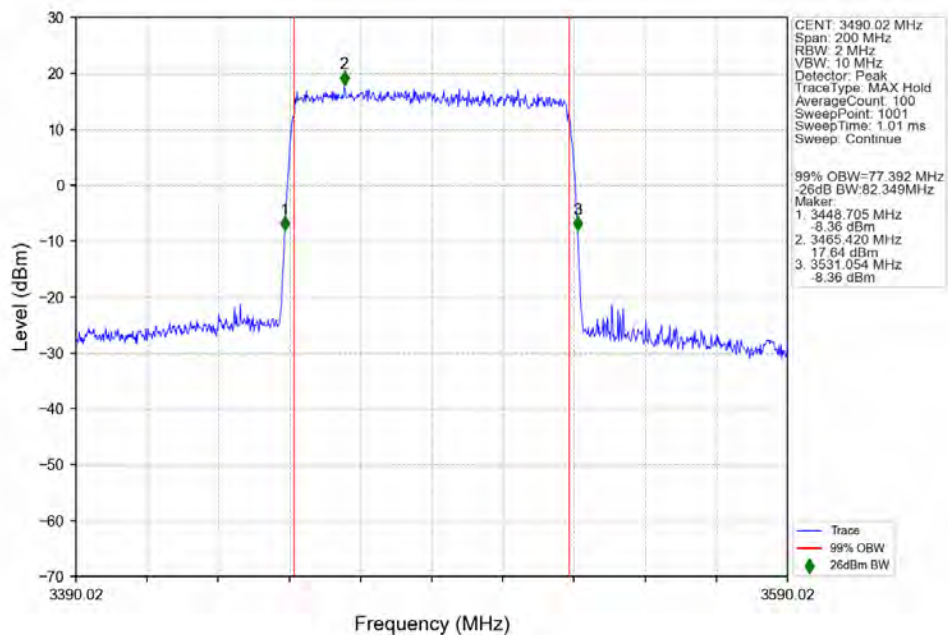
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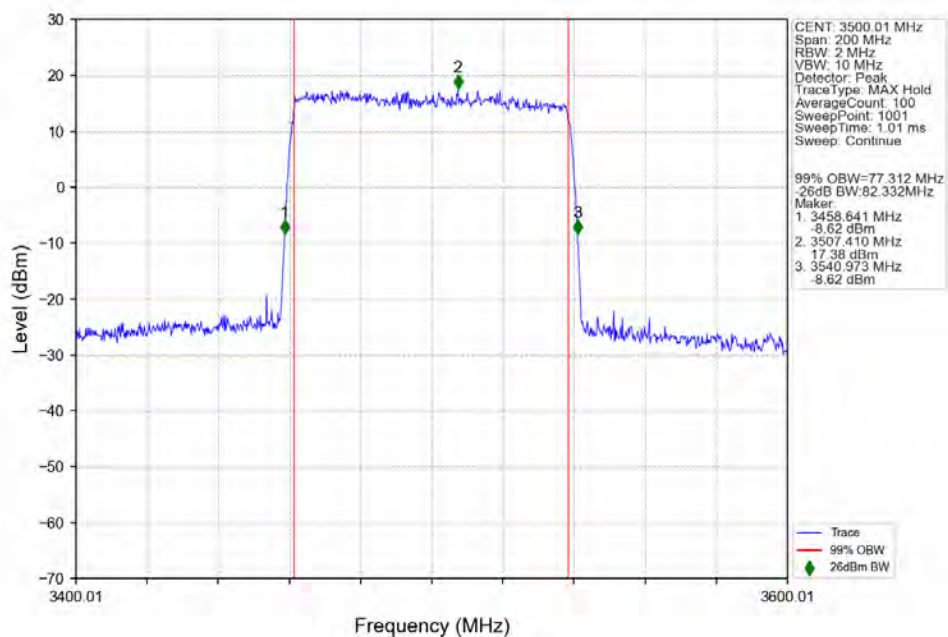
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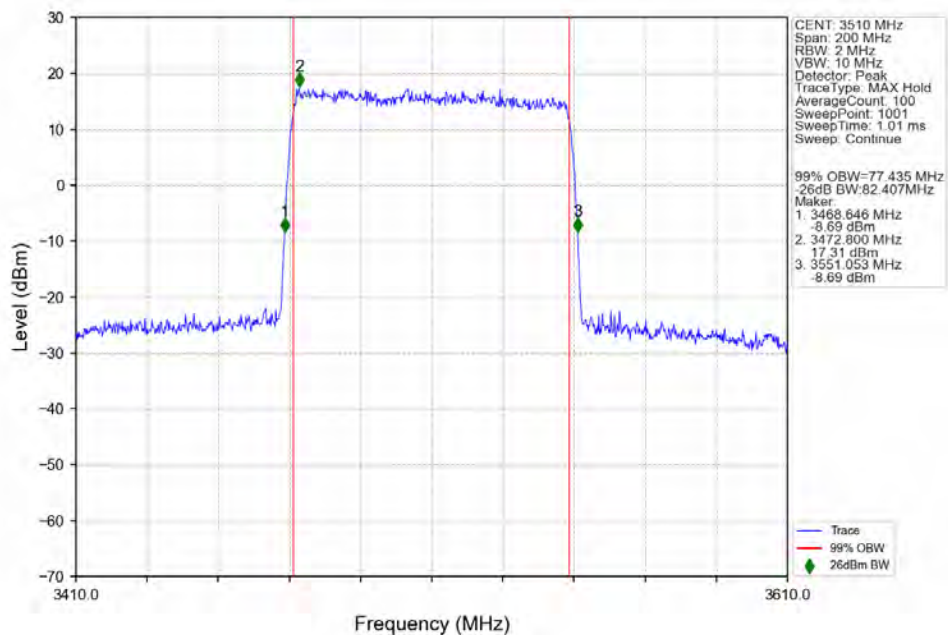
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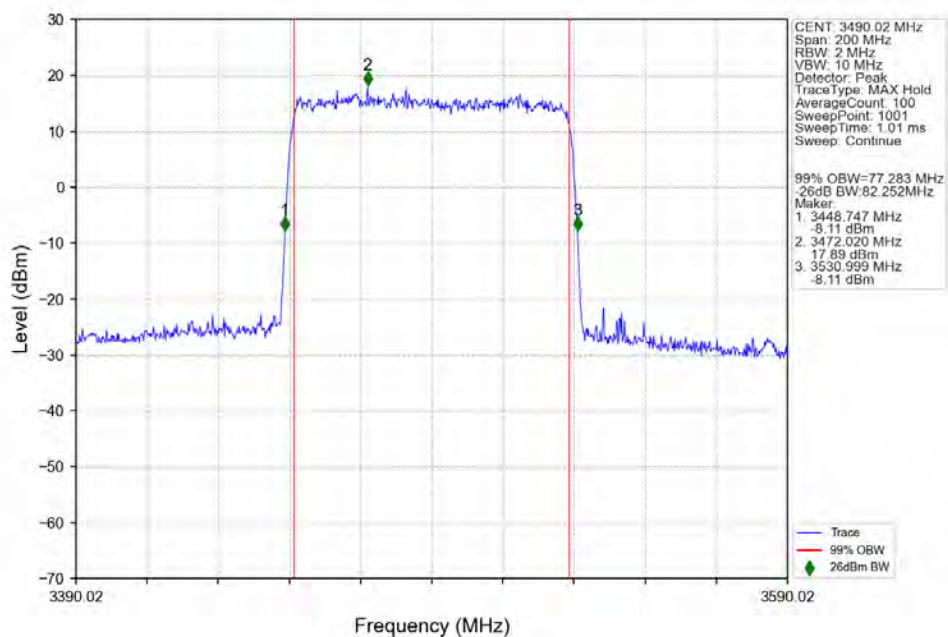
n78e\_30kHz\_SISO\_NTNV\_80MHz\_DFT-s-OFDM\_16\_QAM\_3500.01MHz\_Outer\_Full\_Ant1



n78e\_30kHz\_SISO\_NTNV\_80MHz\_DFT-s-OFDM\_16\_QAM\_3510MHz\_Outer\_Full\_Ant1

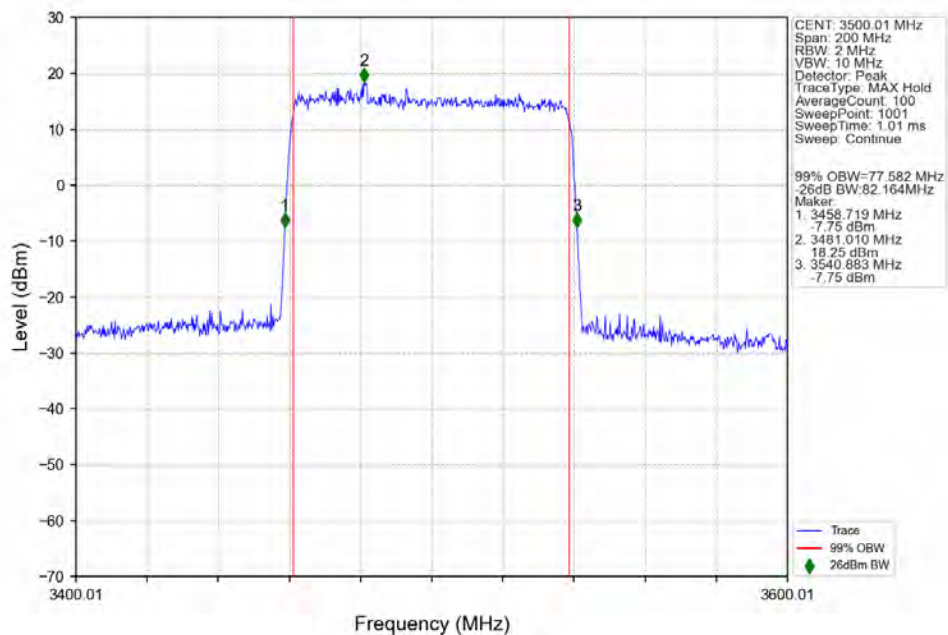


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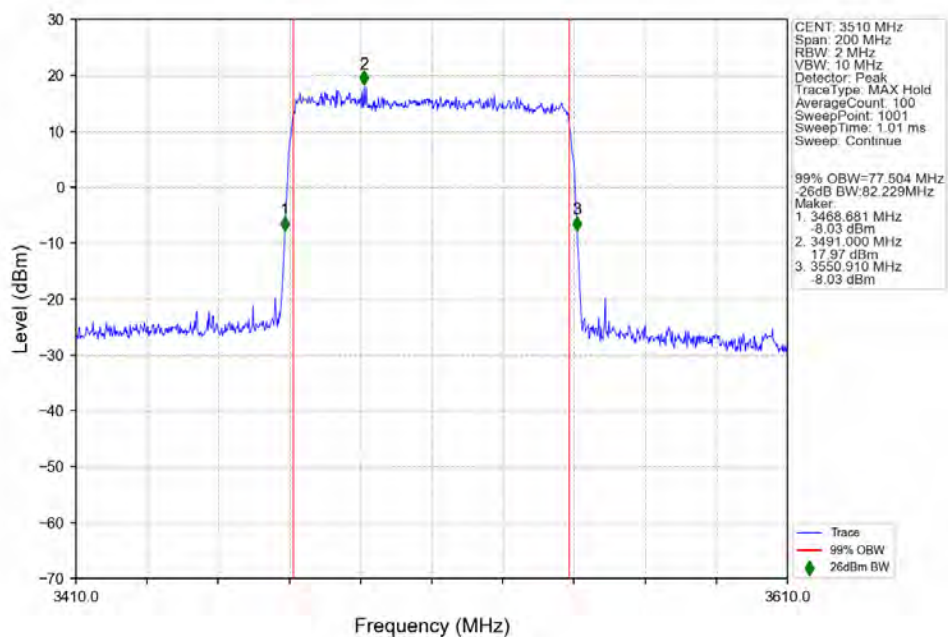




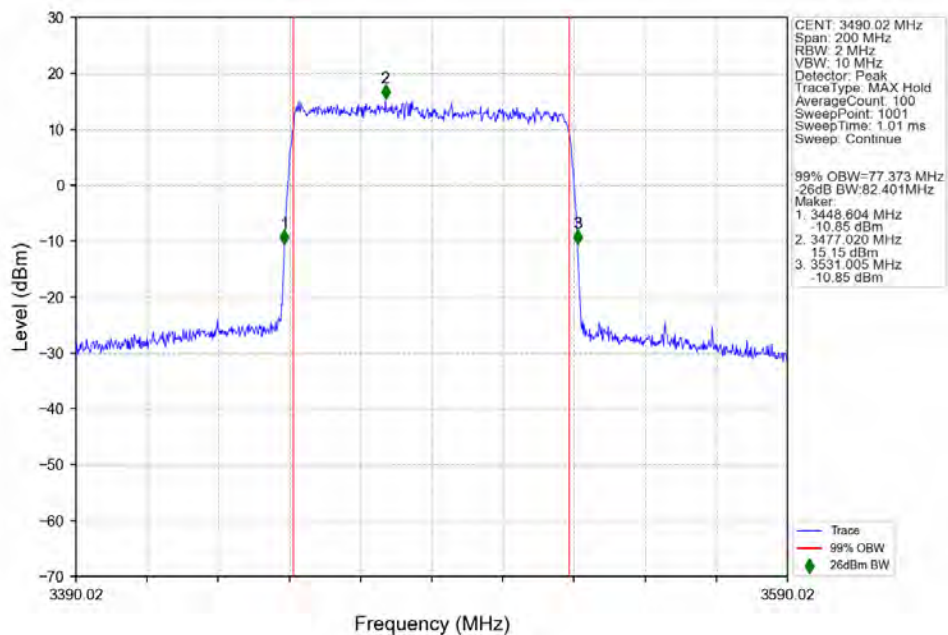
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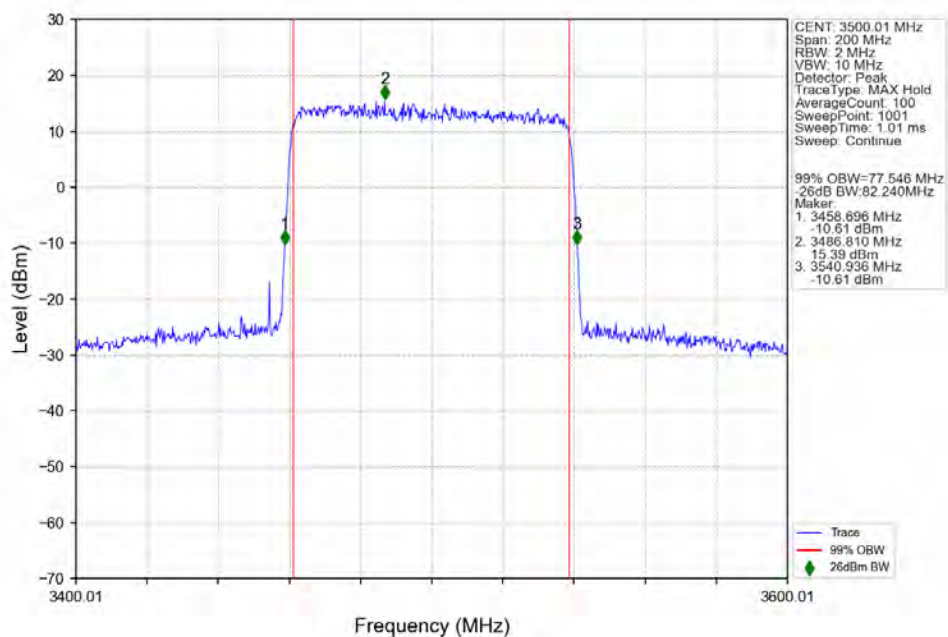
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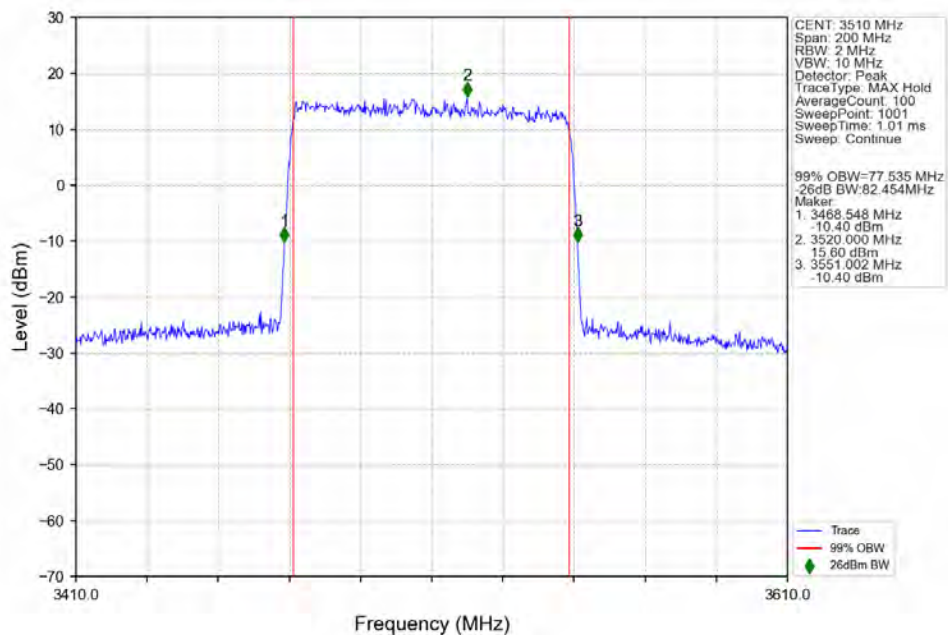
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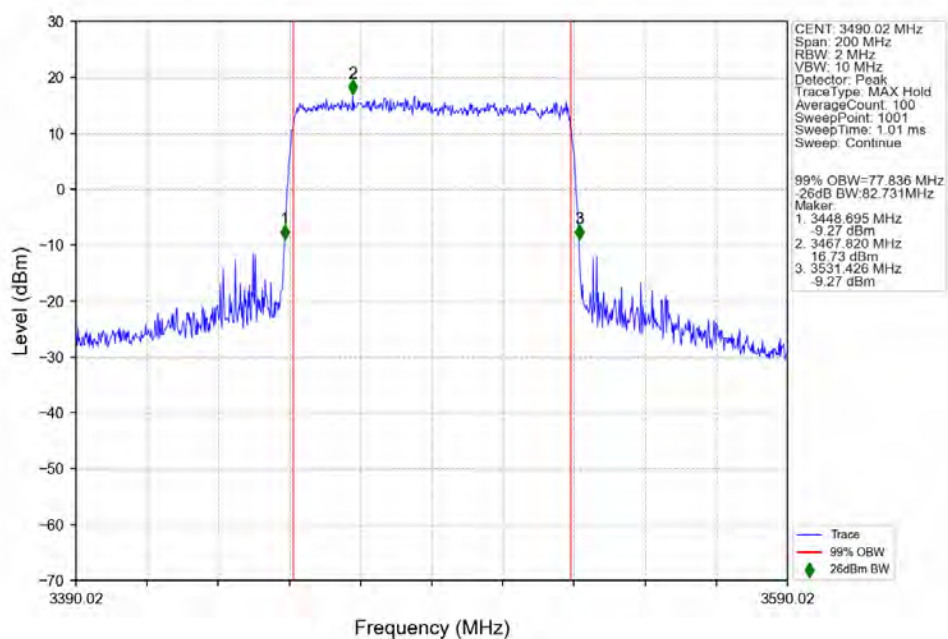
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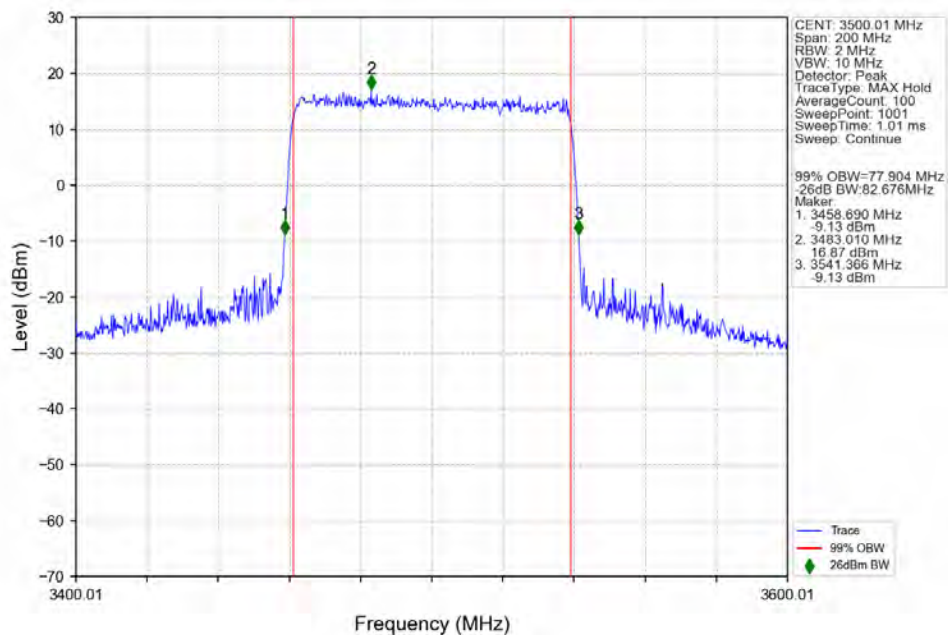
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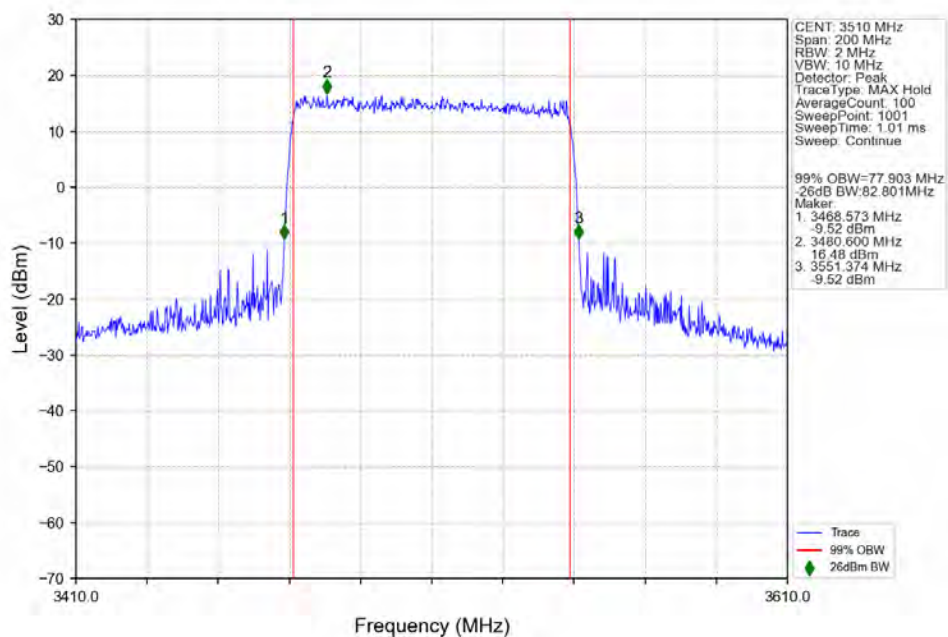
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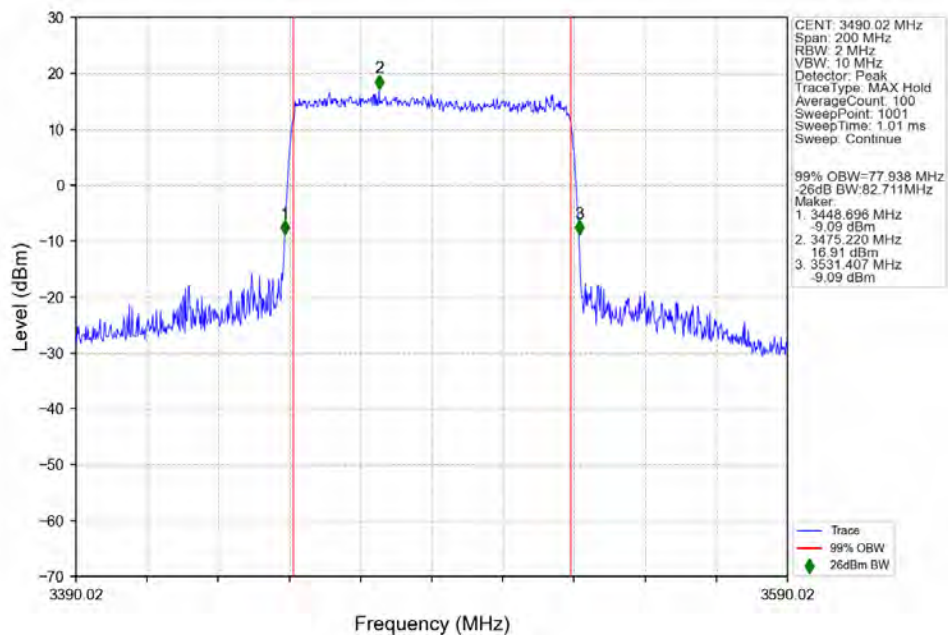
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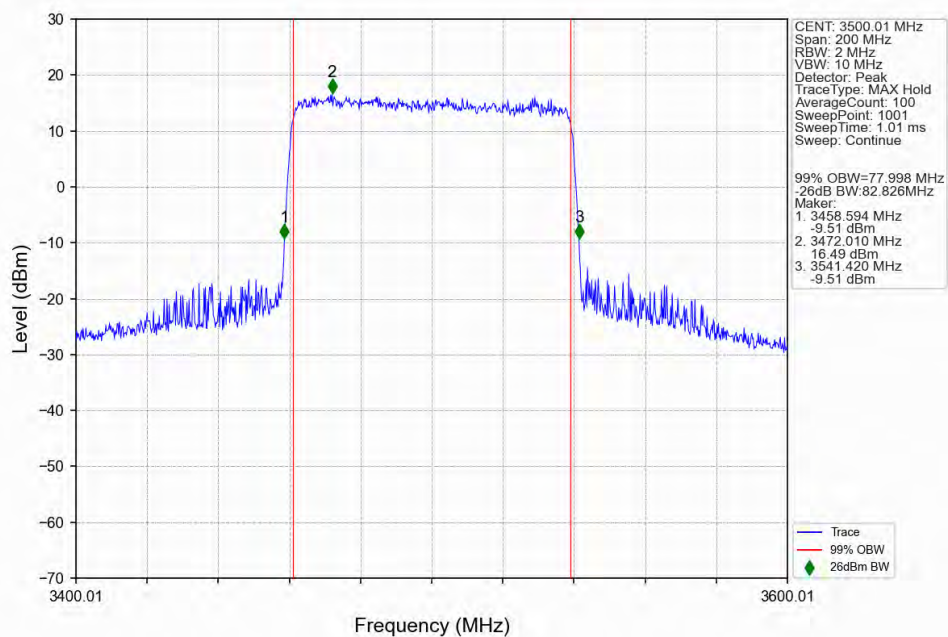
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n78e\_30kHz\_SISO\_NTNV\_80MHz\_CP-OFDM\_16\_QAM\_3490.02MHz\_Outer\_Full\_Ant1

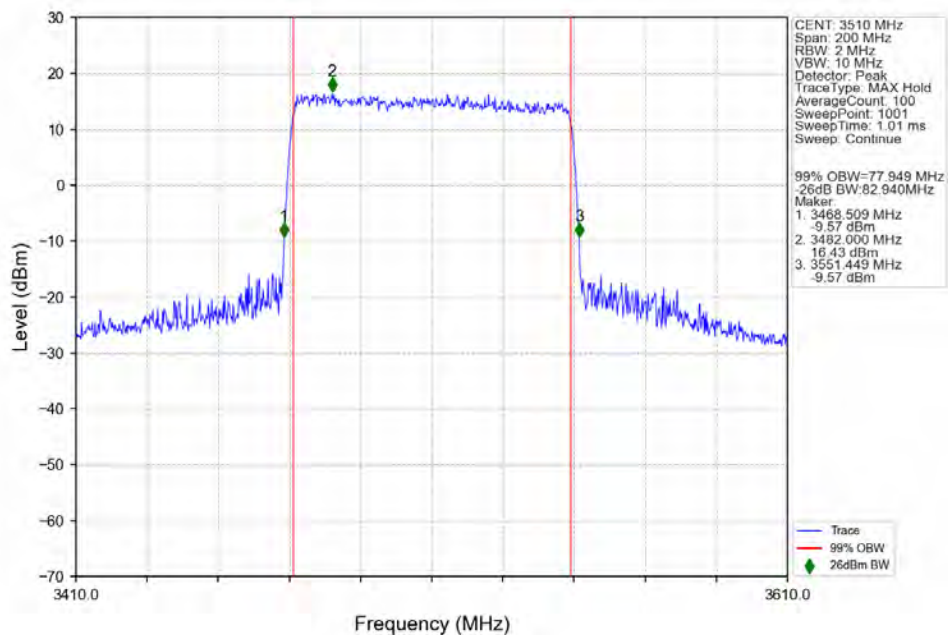


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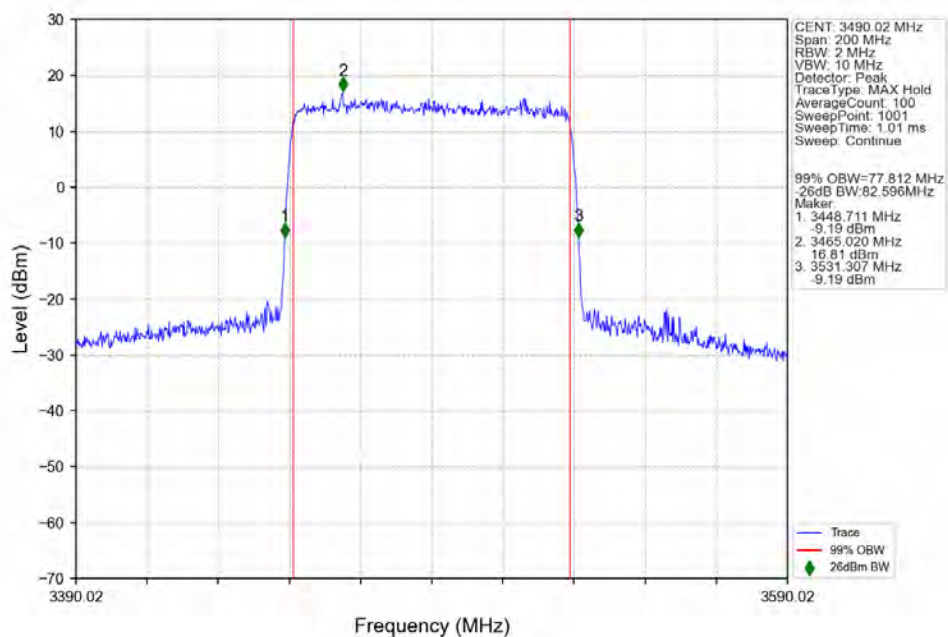




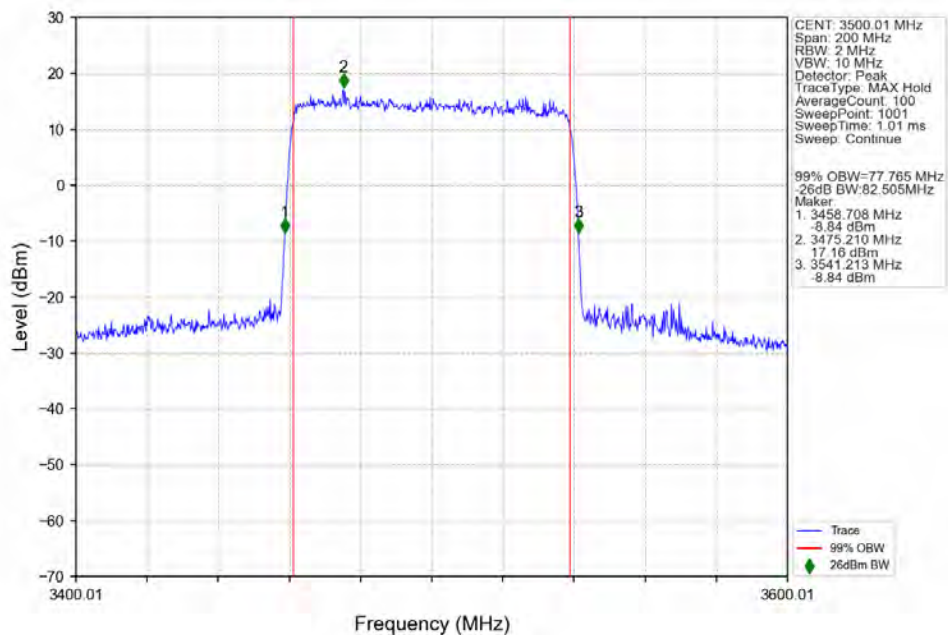
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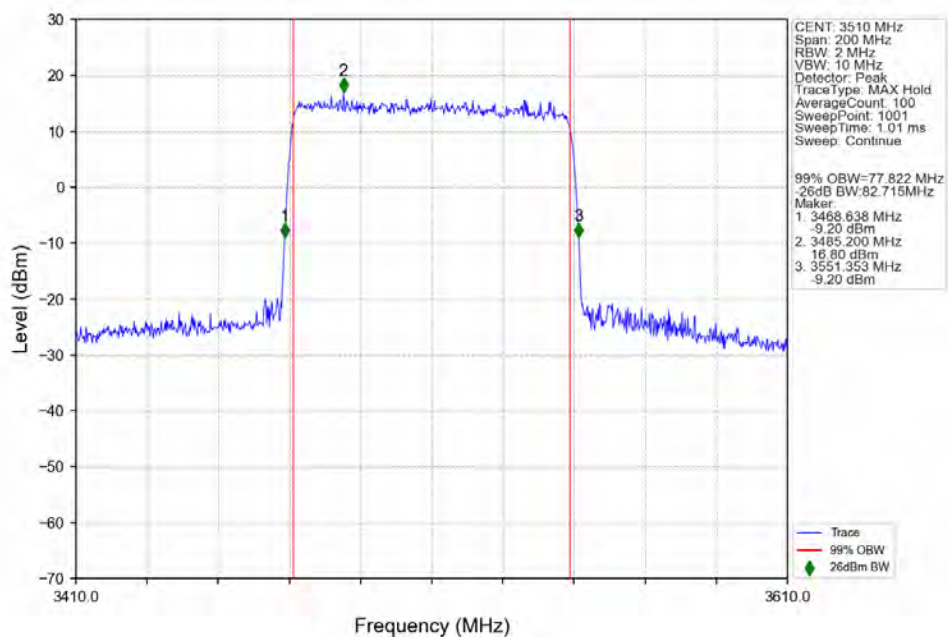
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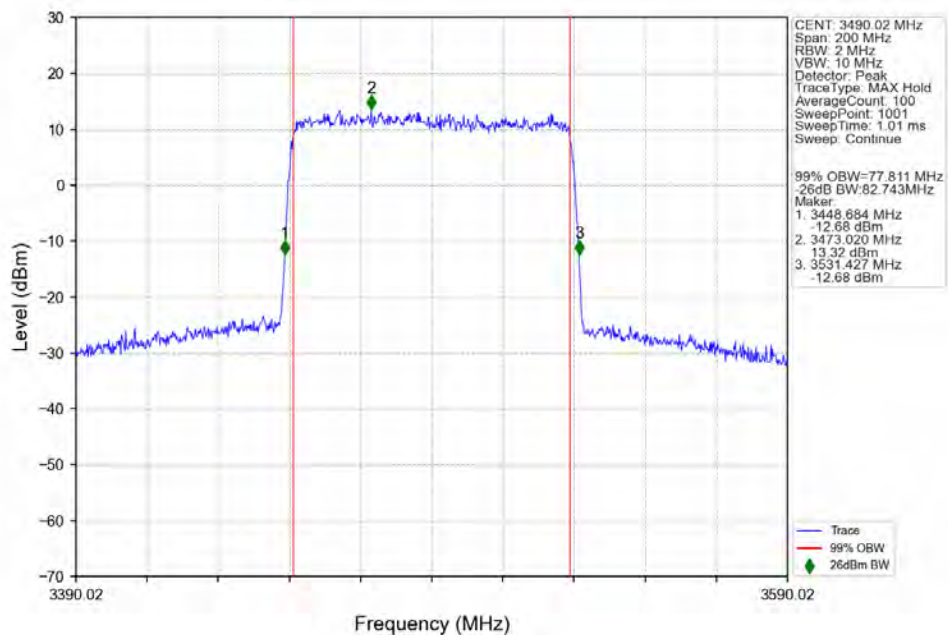
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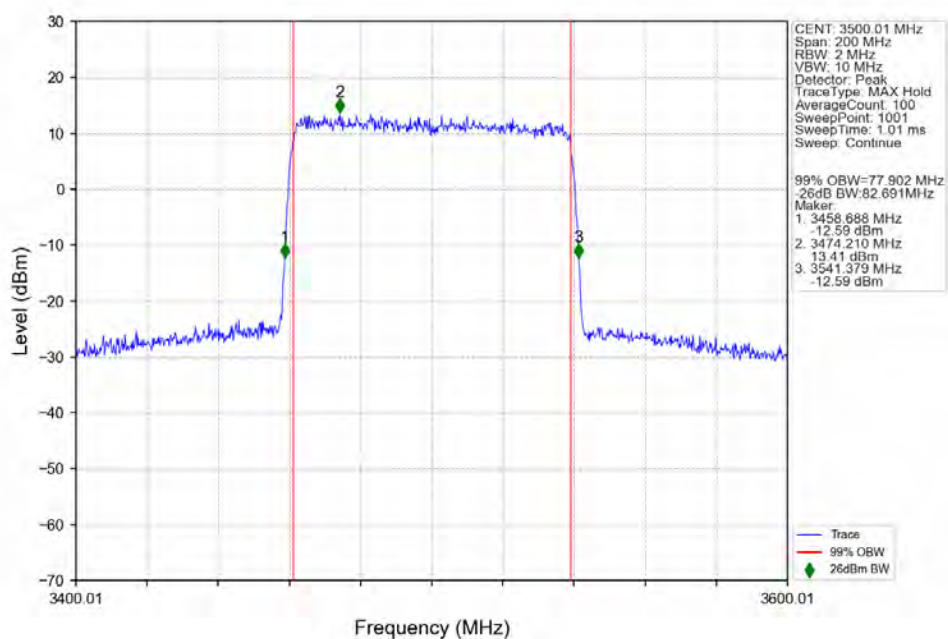
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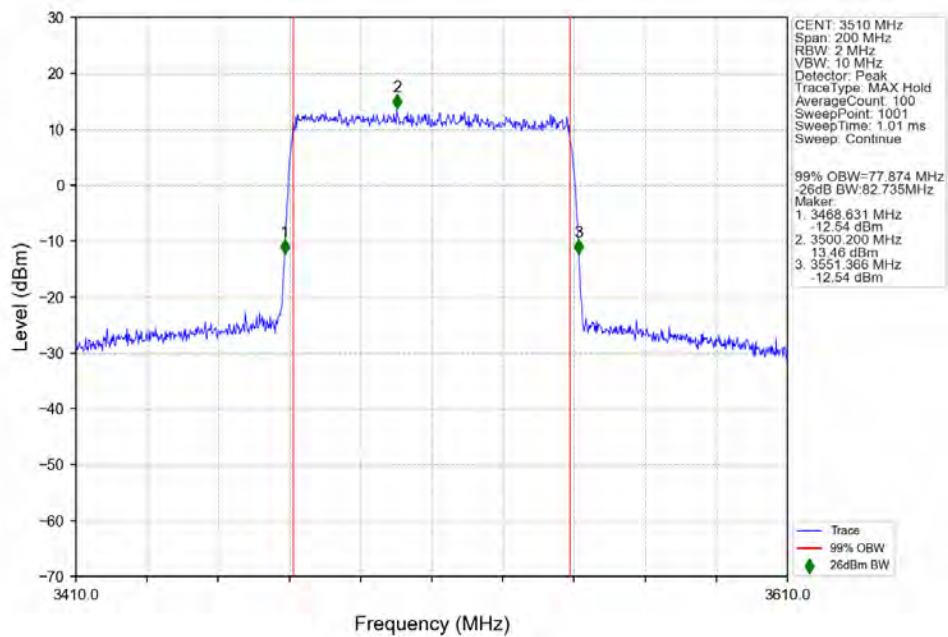
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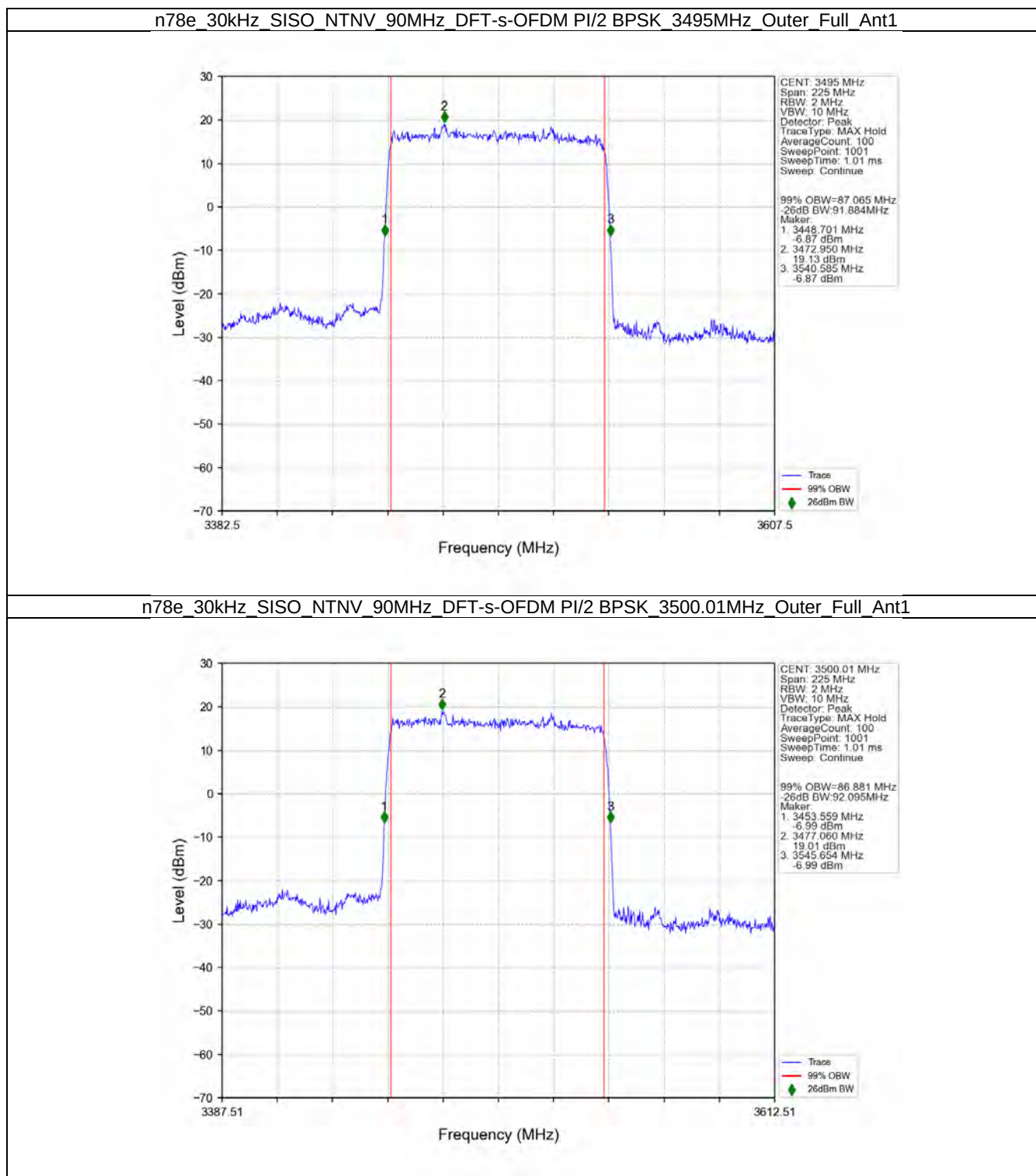
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n78e\_30kHz\_SISO\_NTNV\_80MHz\_CP-OFDM\_256\_QAM\_3510MHz\_Outer\_Full\_Ant1

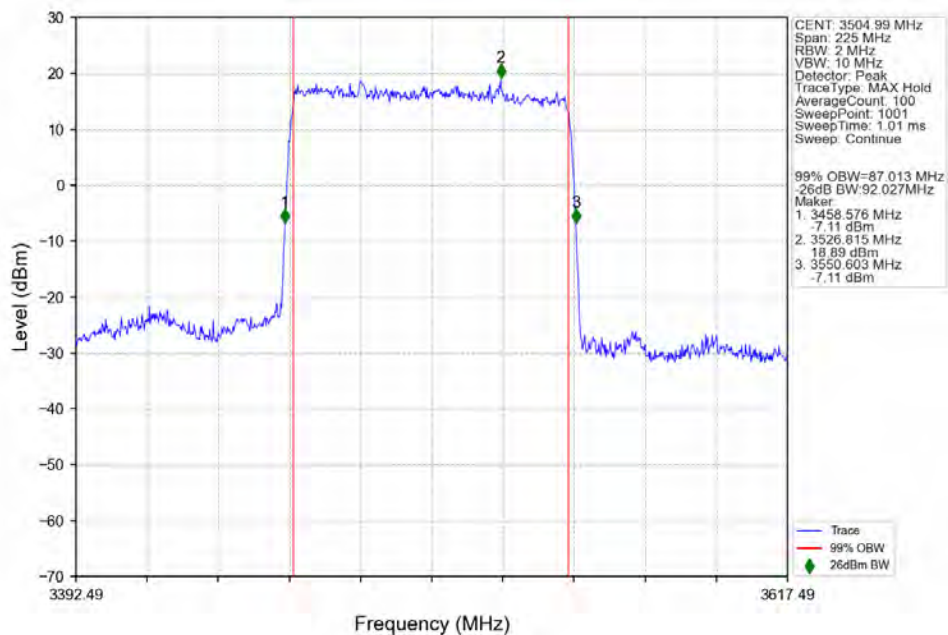


## 3.2.11 30k\_SISO\_90MHz\_NTNV

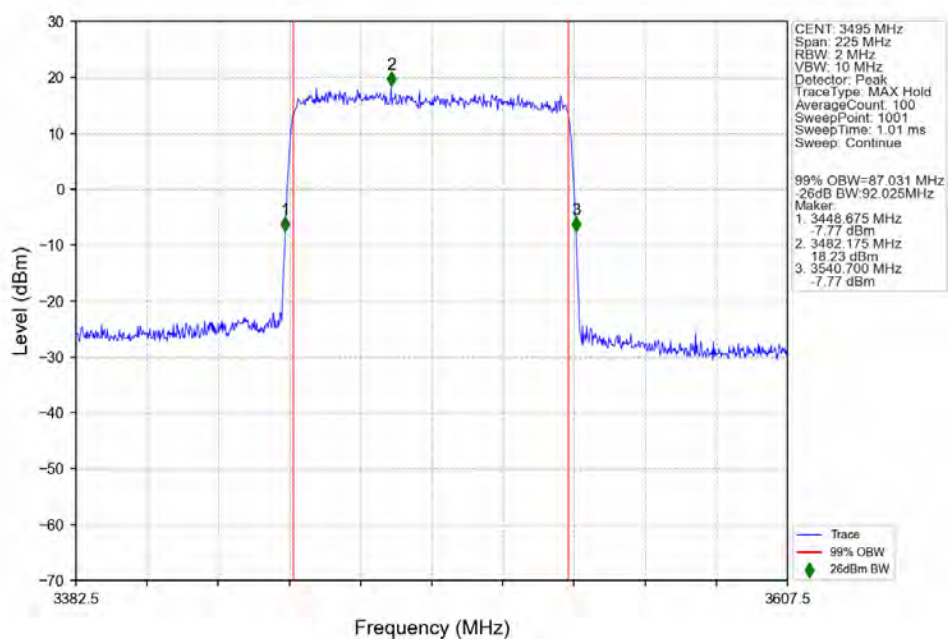




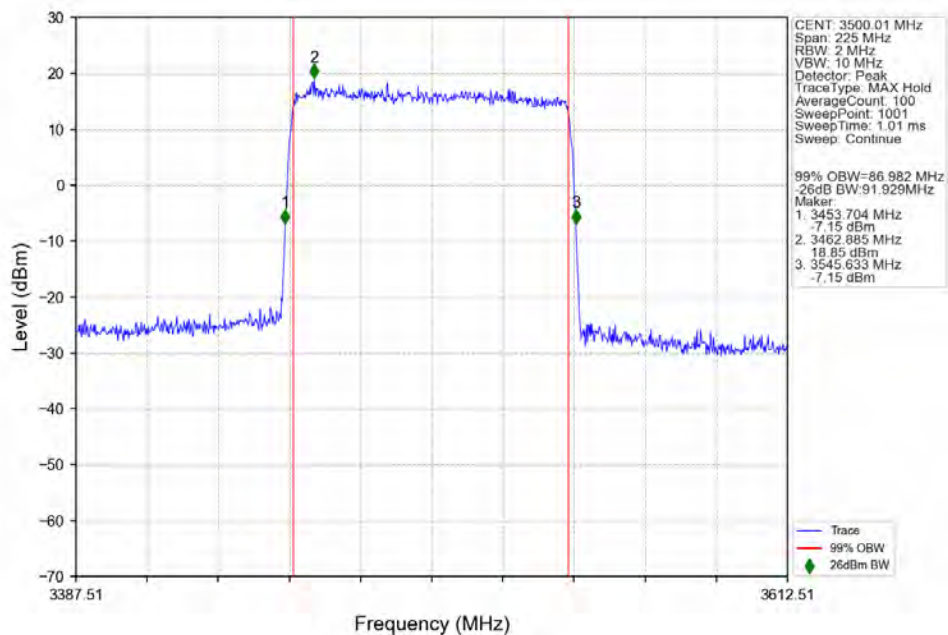
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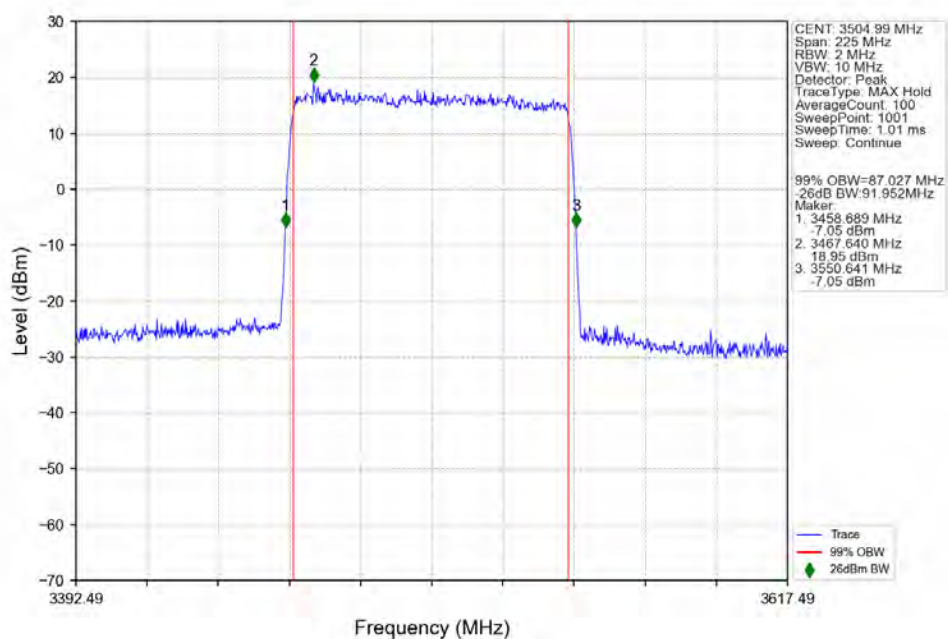
n78e\_30kHz\_SISO\_NTNV\_90MHz\_DFT-s-OFDM\_QPSK\_3495MHz\_Outer\_Full\_Ant1



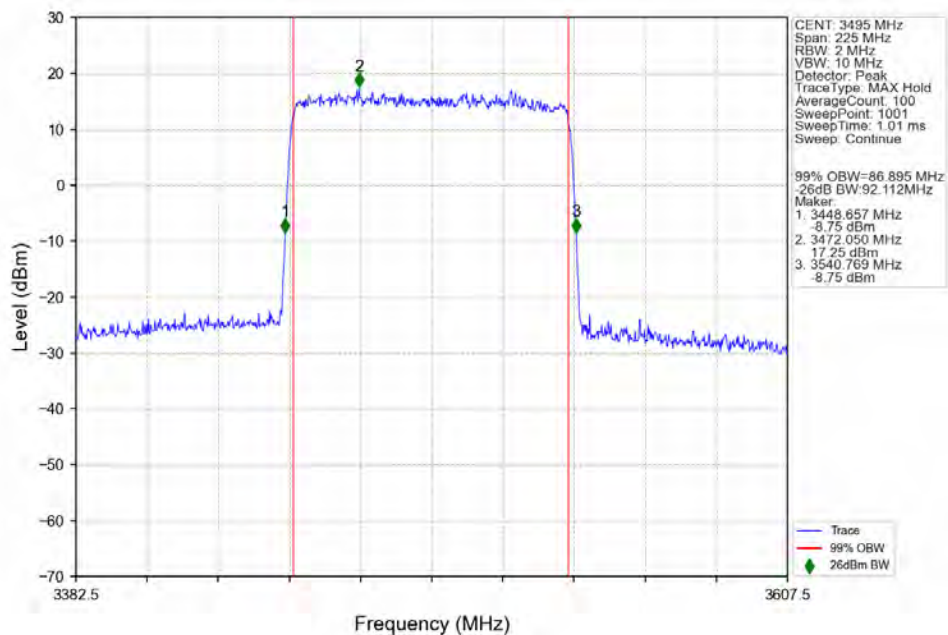
n78e\_30kHz\_SISO\_NTNV\_90MHz\_DFT-s-OFDM\_QPSK\_3500.01MHz\_Outer\_Full\_Ant1



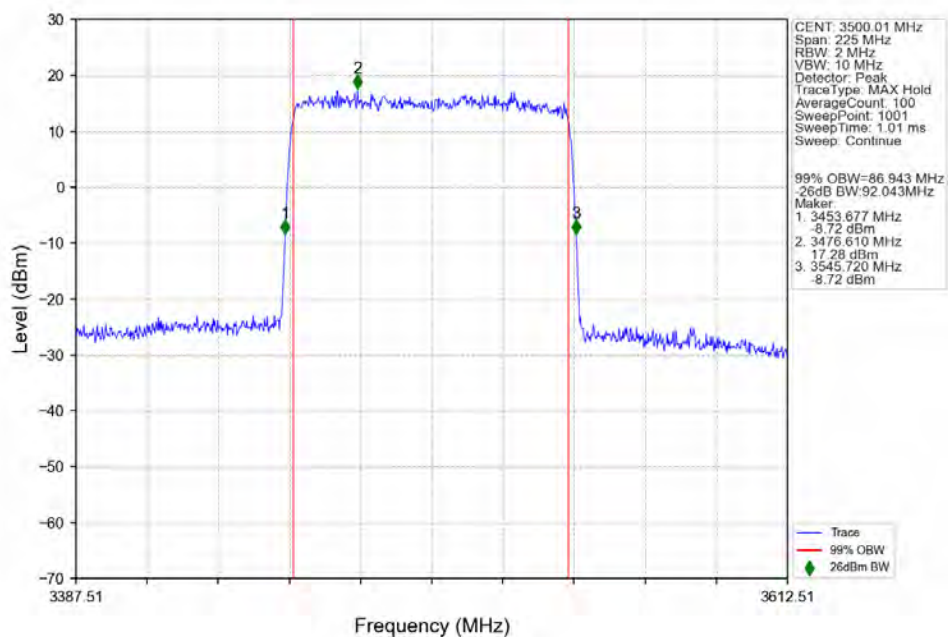
n78e\_30kHz\_SISO\_NTNV\_90MHz\_DFT-s-OFDM\_QPSK\_3504.99MHz\_Outer\_Full\_Ant1



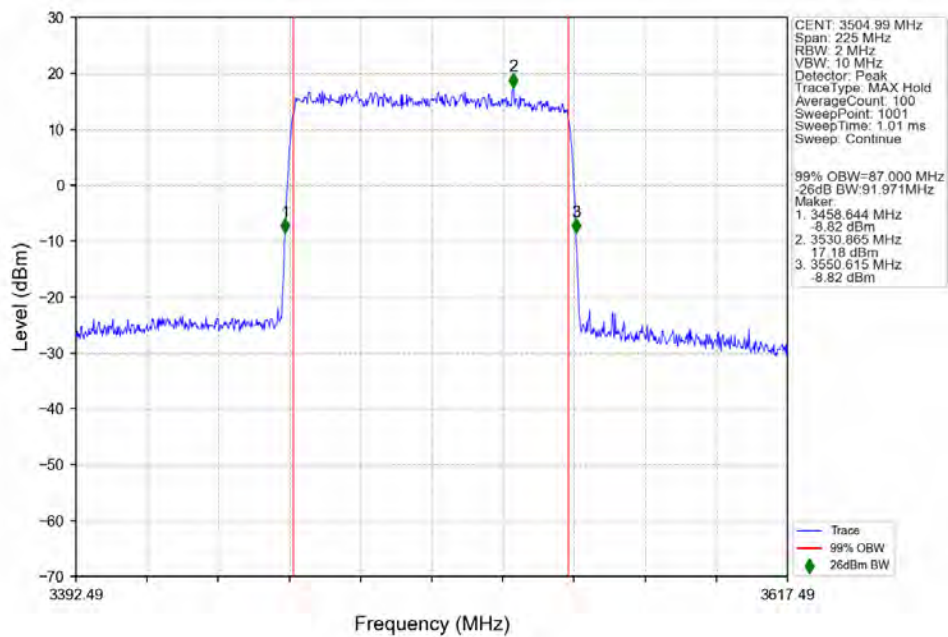
n78e\_30kHz\_SISO\_NTNV\_90MHz\_DFT-s-OFDM\_16\_QAM\_3495MHz\_Outer\_Full\_Ant1



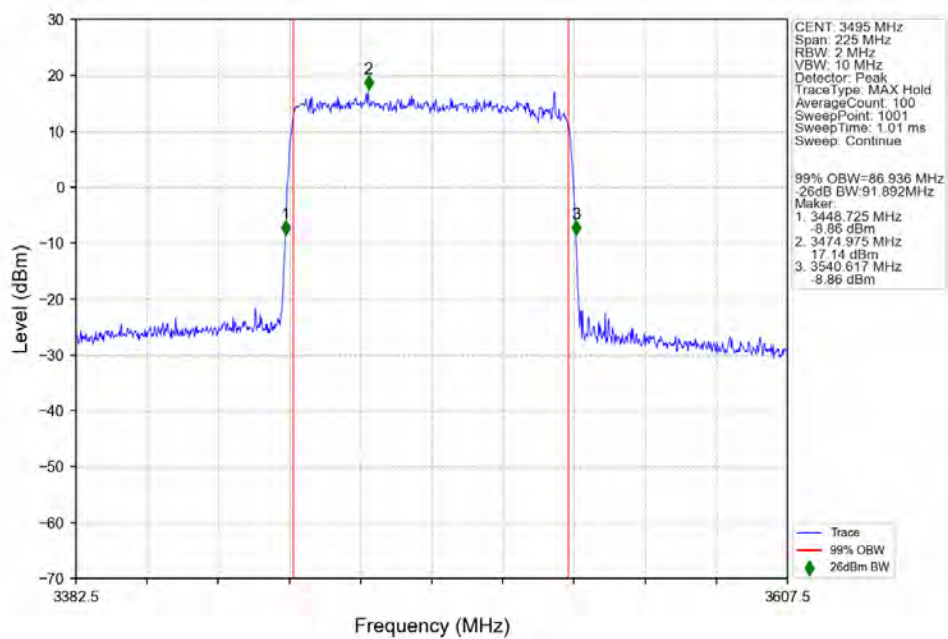
n78e\_30kHz\_SISO\_NTNV\_90MHz\_DFT-s-OFDM\_16\_QAM\_3500.01MHz\_Outer\_Full\_Ant1



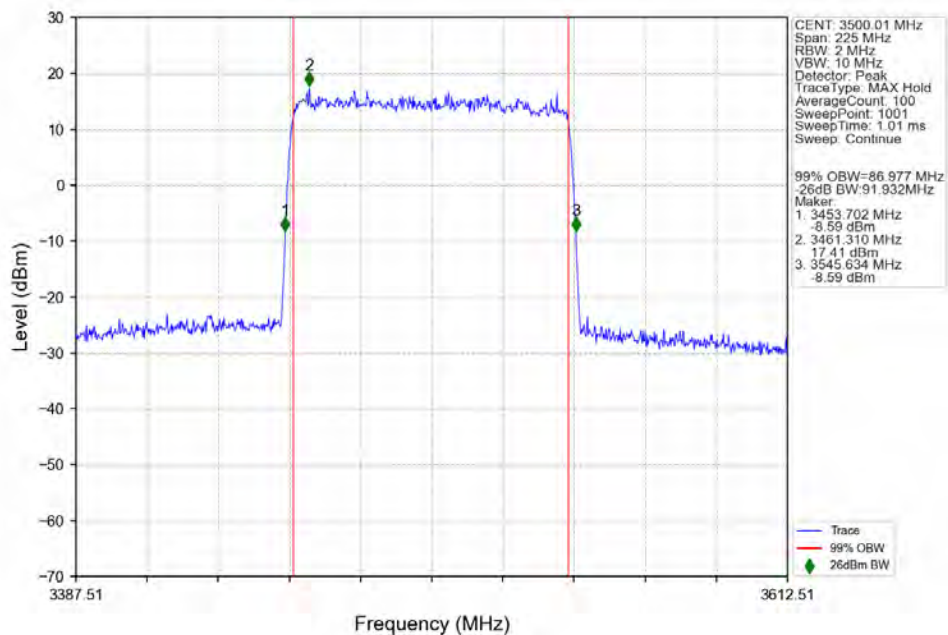
n78e\_30kHz\_SISO\_NTNV\_90MHz\_DFT-s-OFDM\_16\_QAM\_3504.99MHz\_Outer\_Full\_Ant1



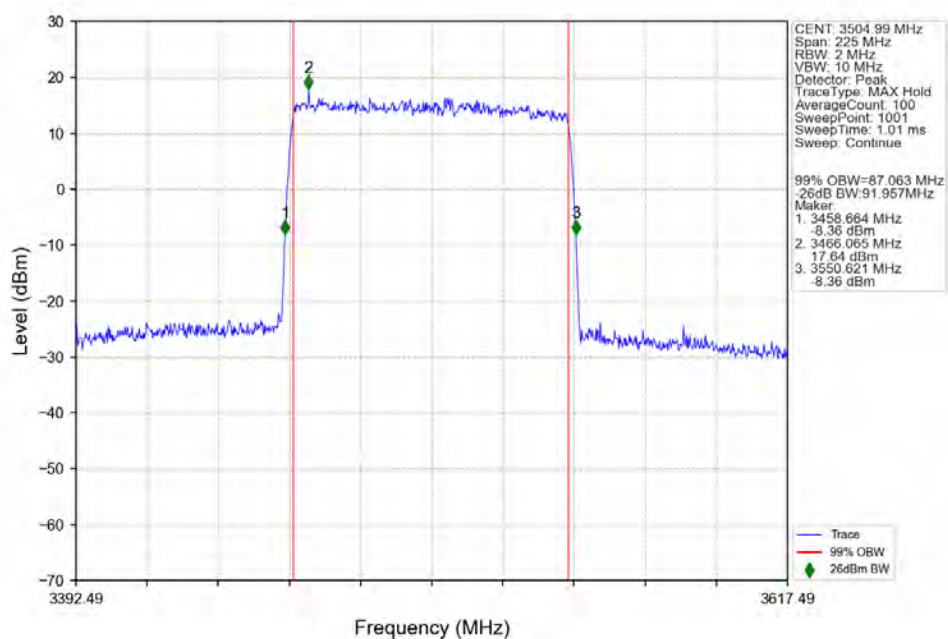
n78e\_30kHz\_SISO\_NTNV\_90MHz\_DFT-s-OFDM\_64\_QAM\_3495MHz\_Outer\_Full\_Ant1



n78e\_30kHz\_SISO\_NTNV\_90MHz\_DFT-s-OFDM\_64\_QAM\_3500.01MHz\_Outer\_Full\_Ant1

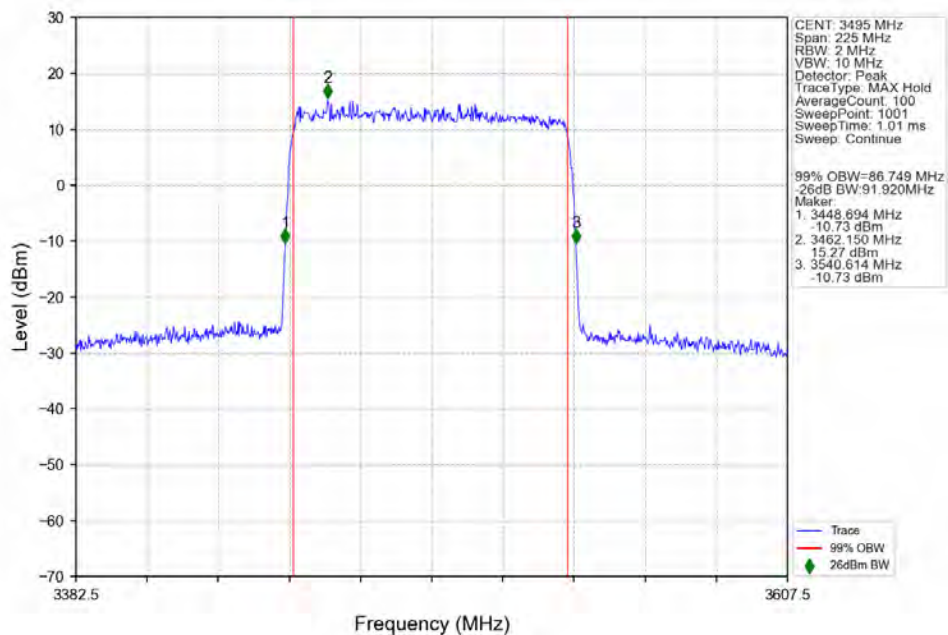


n78e\_30kHz\_SISO\_NTNV\_90MHz\_DFT-s-OFDM\_64\_QAM\_3504.99MHz\_Outer\_Full\_Ant1

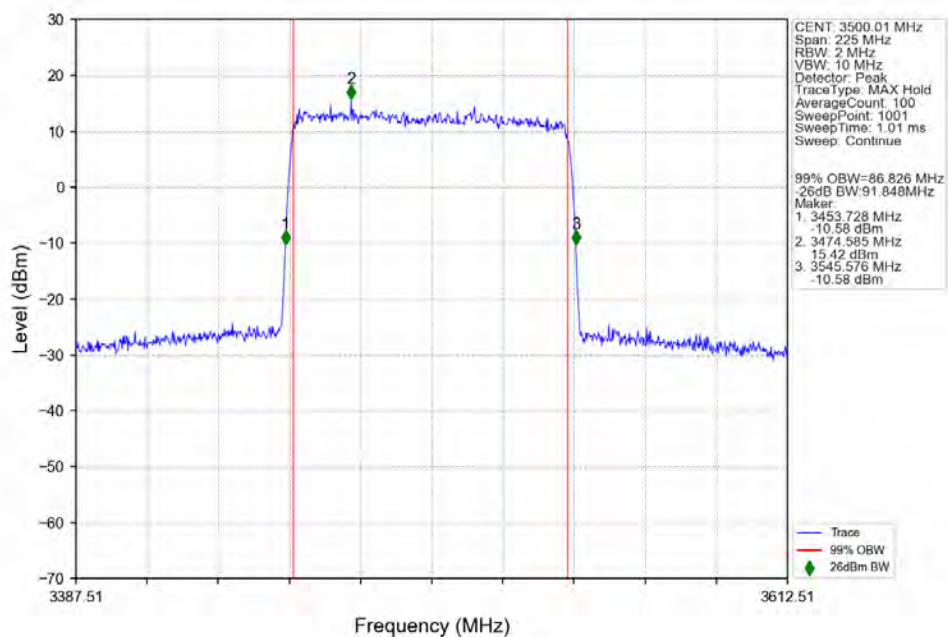




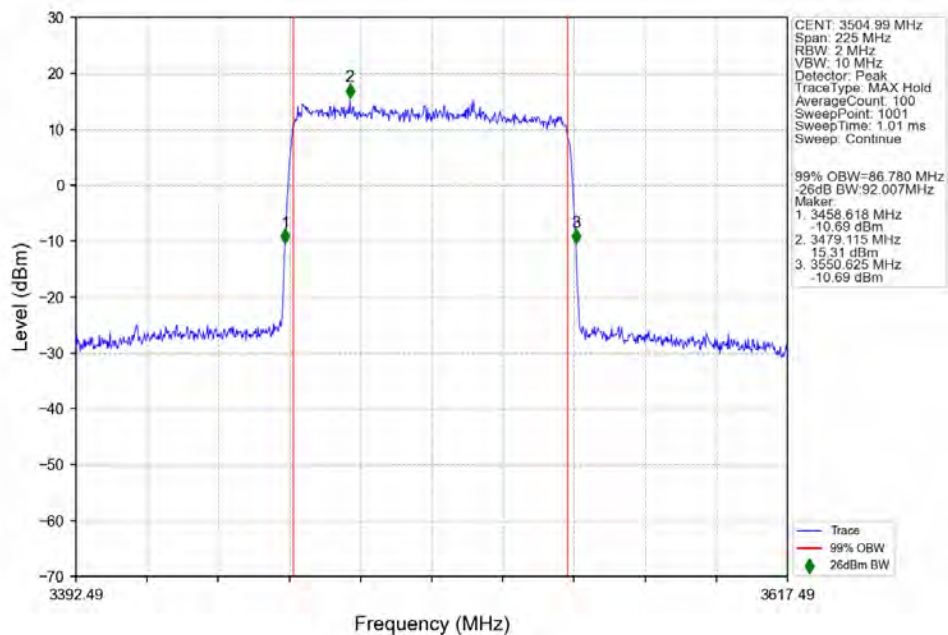
n78e\_30kHz\_SISO\_NTNV\_90MHz\_DFT-s-OFDM\_256\_QAM\_3495MHz\_Outer\_Full\_Ant1



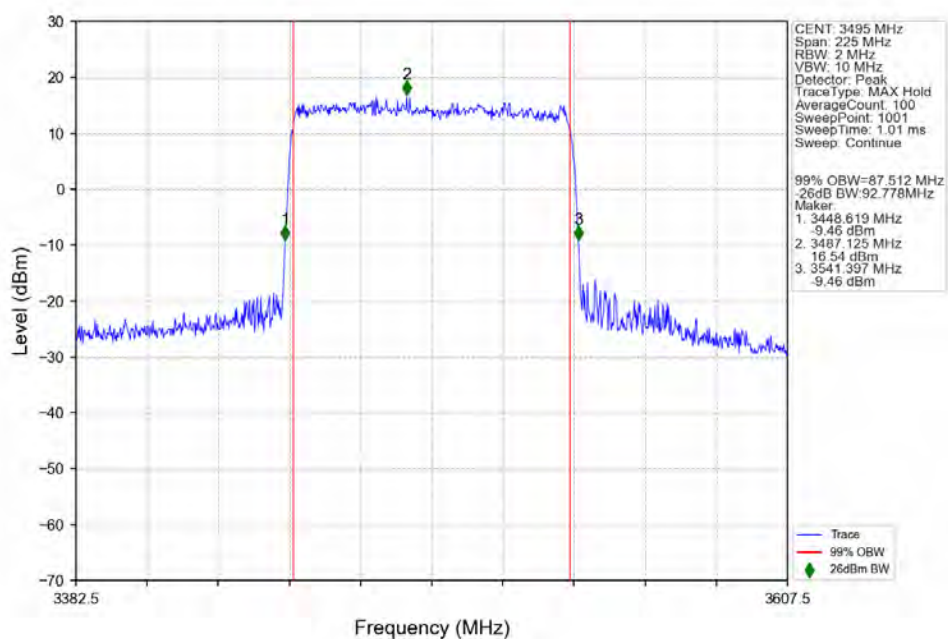
n78e\_30kHz\_SISO\_NTNV\_90MHz\_DFT-s-OFDM\_256\_QAM\_3500.01MHz\_Outer\_Full\_Ant1



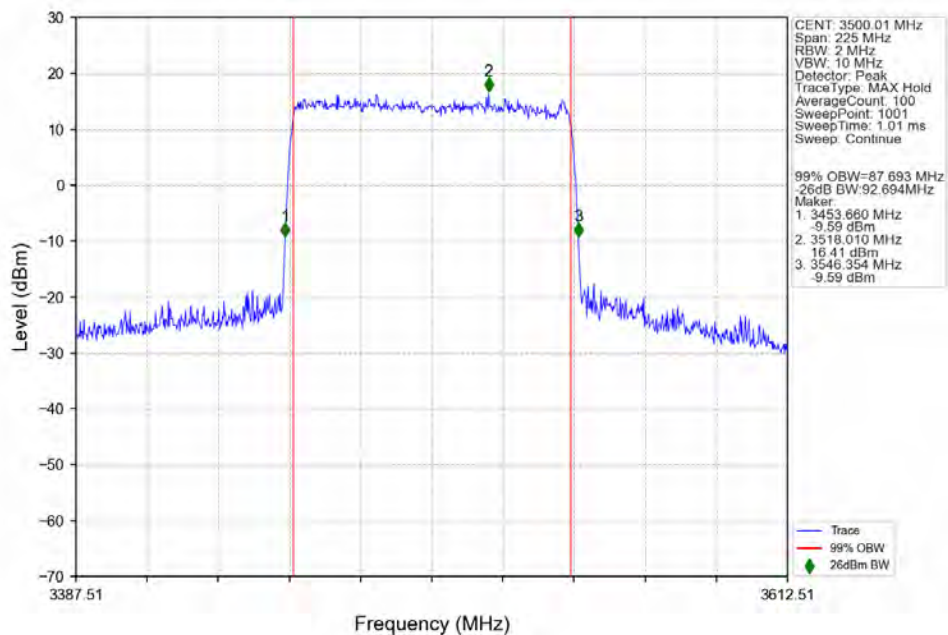
n78e\_30kHz\_SISO\_NTNV\_90MHz\_DFT-s-OFDM\_256\_QAM\_3504.99MHz\_Outer\_Full\_Ant1



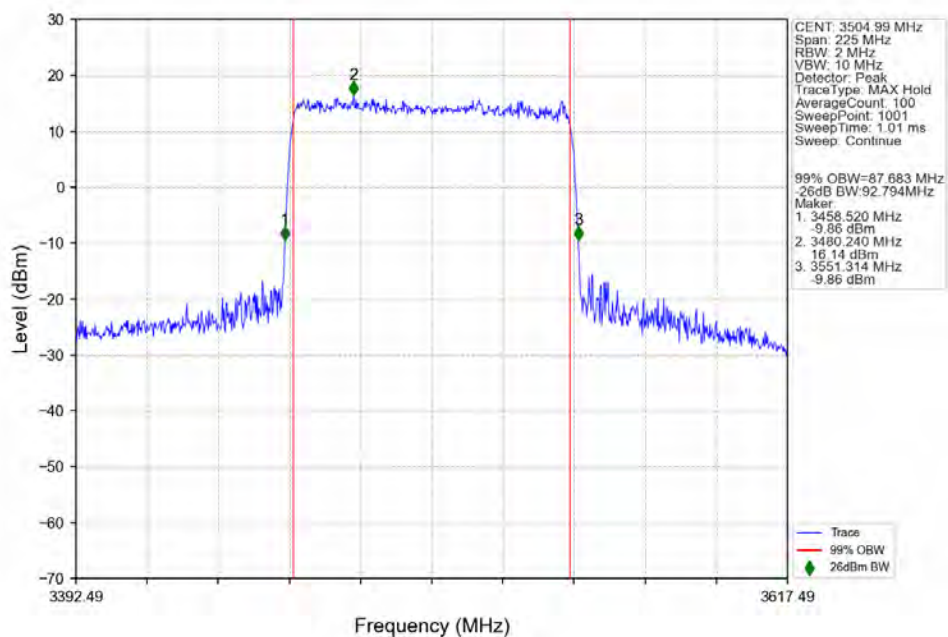
n78e\_30kHz\_SISO\_NTNV\_90MHz\_CP-OFDM\_QPSK\_3495MHz\_Outer\_Full\_Ant1



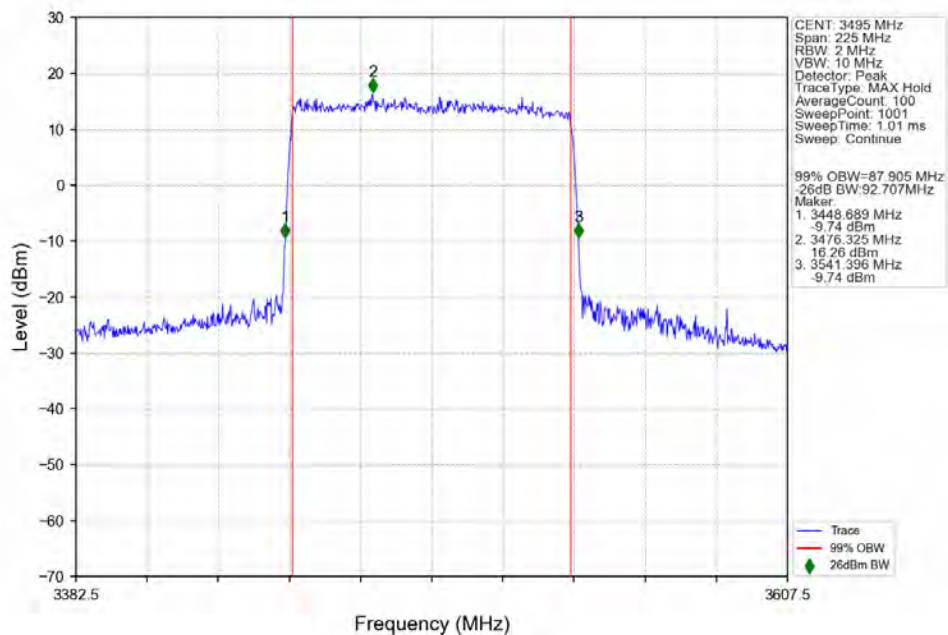
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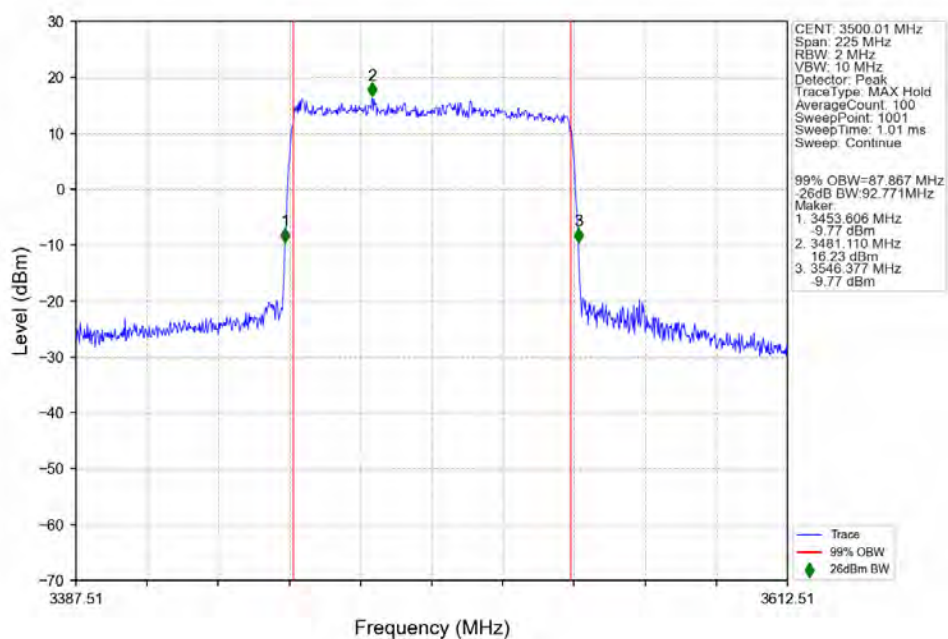
n78e\_30kHz\_SISO\_NTNV\_90MHz\_CP-OFDM\_QPSK\_3504.99MHz\_Outer\_Full\_Ant1



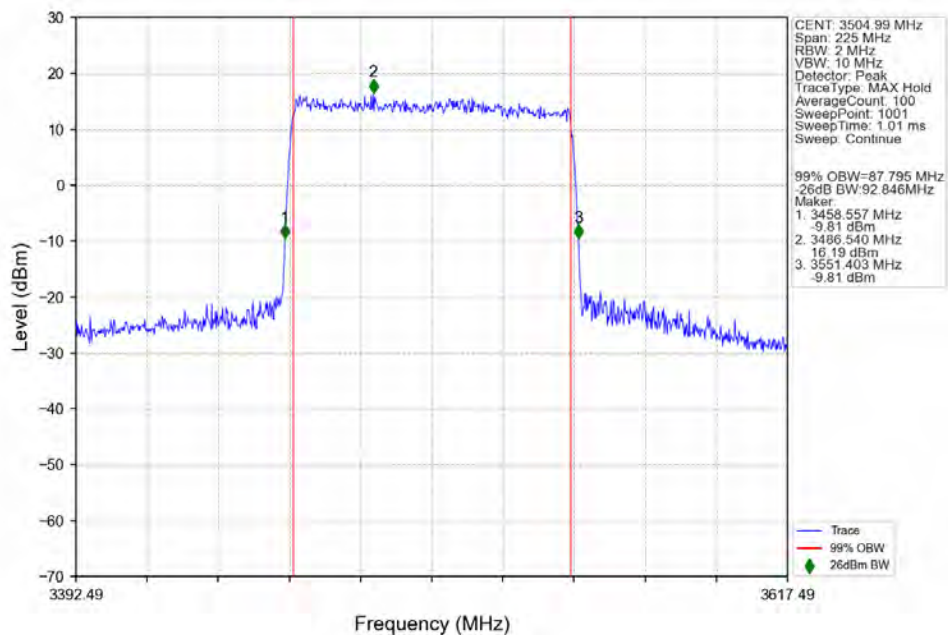
n78e\_30kHz\_SISO\_NTNV\_90MHz\_CP-OFDM\_16\_QAM\_3495MHz\_Outer\_Full\_Ant1



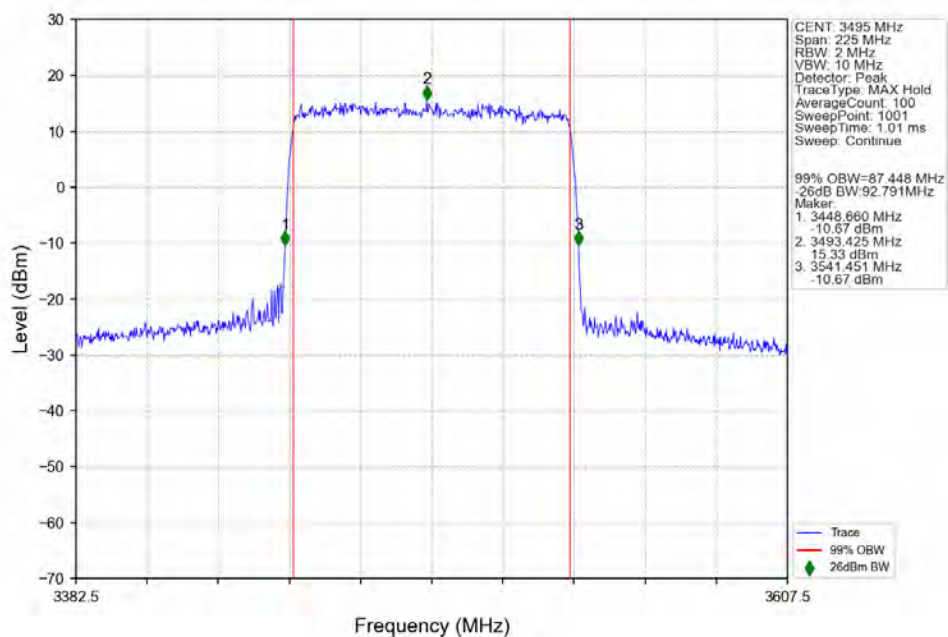
n78e\_30kHz\_SISO\_NTNV\_90MHz\_CP-OFDM\_16\_QAM\_3500.01MHz\_Outer\_Full\_Ant1



n78e\_30kHz\_SISO\_NTNV\_90MHz\_CP-OFDM\_16\_QAM\_3504.99MHz\_Outer\_Full\_Ant1

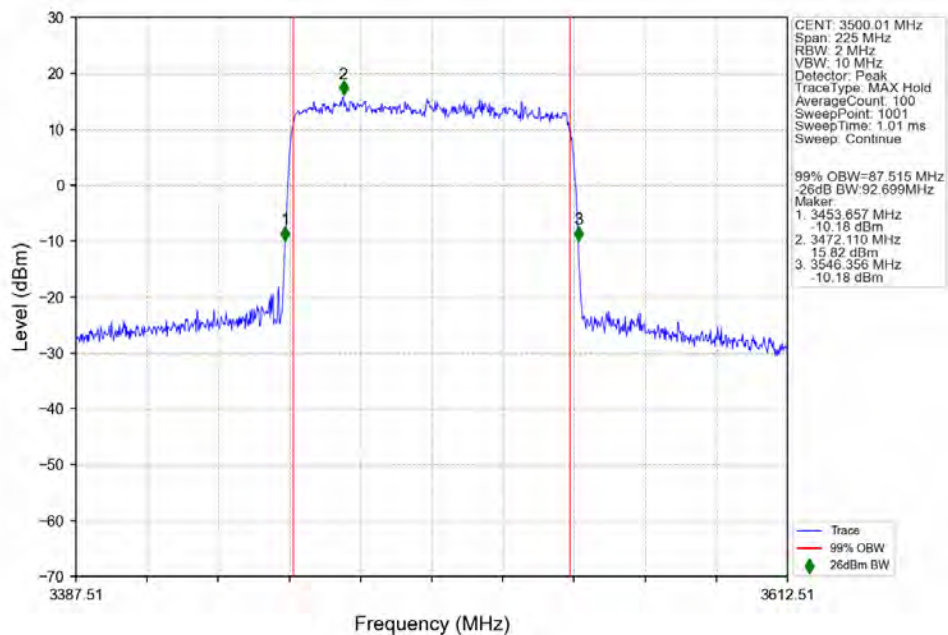


n78e\_30kHz\_SISO\_NTNV\_90MHz\_CP-OFDM\_64\_QAM\_3495MHz\_Outer\_Full\_Ant1

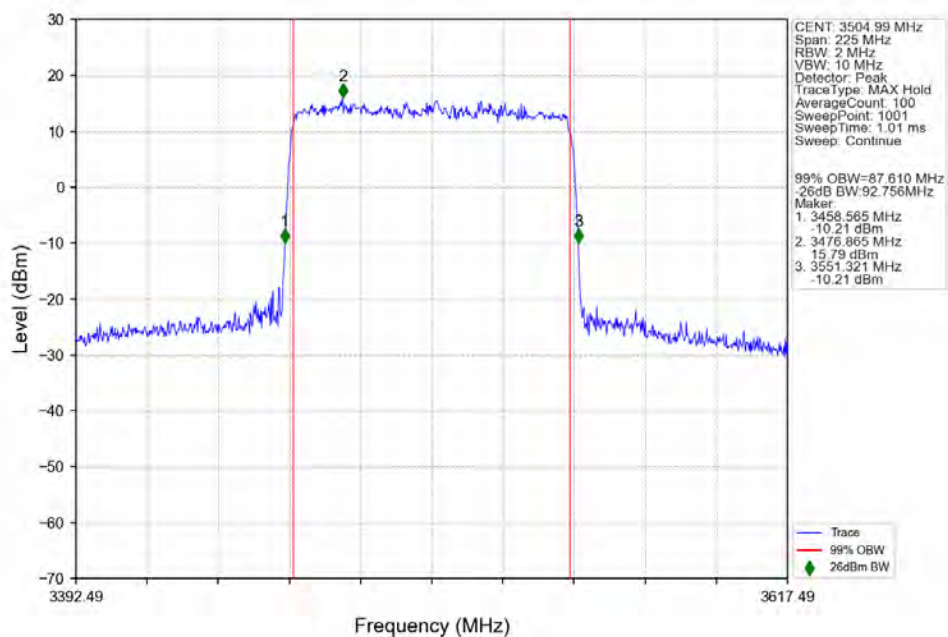




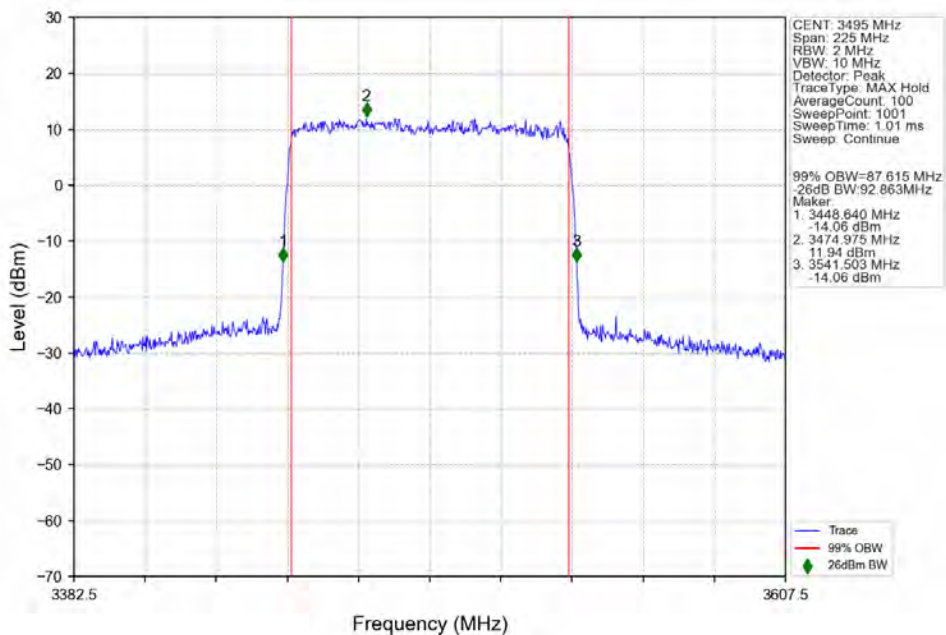
n78e\_30kHz\_SISO\_NTNV\_90MHz\_CP-OFDM\_64\_QAM\_3500.01MHz\_Outer\_Full\_Ant1



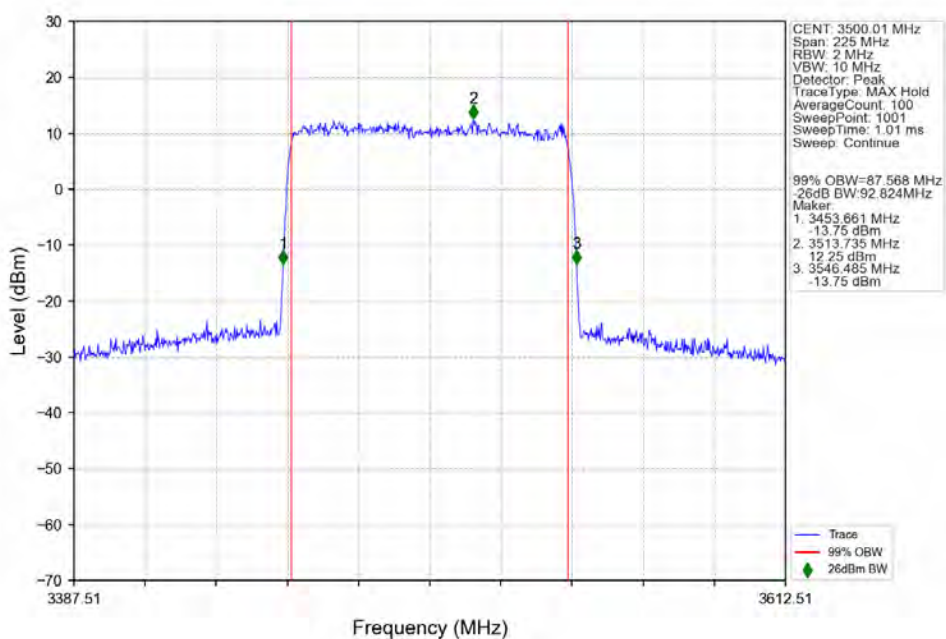
n78e\_30kHz\_SISO\_NTNV\_90MHz\_CP-OFDM\_64\_QAM\_3504.99MHz\_Outer\_Full\_Ant1

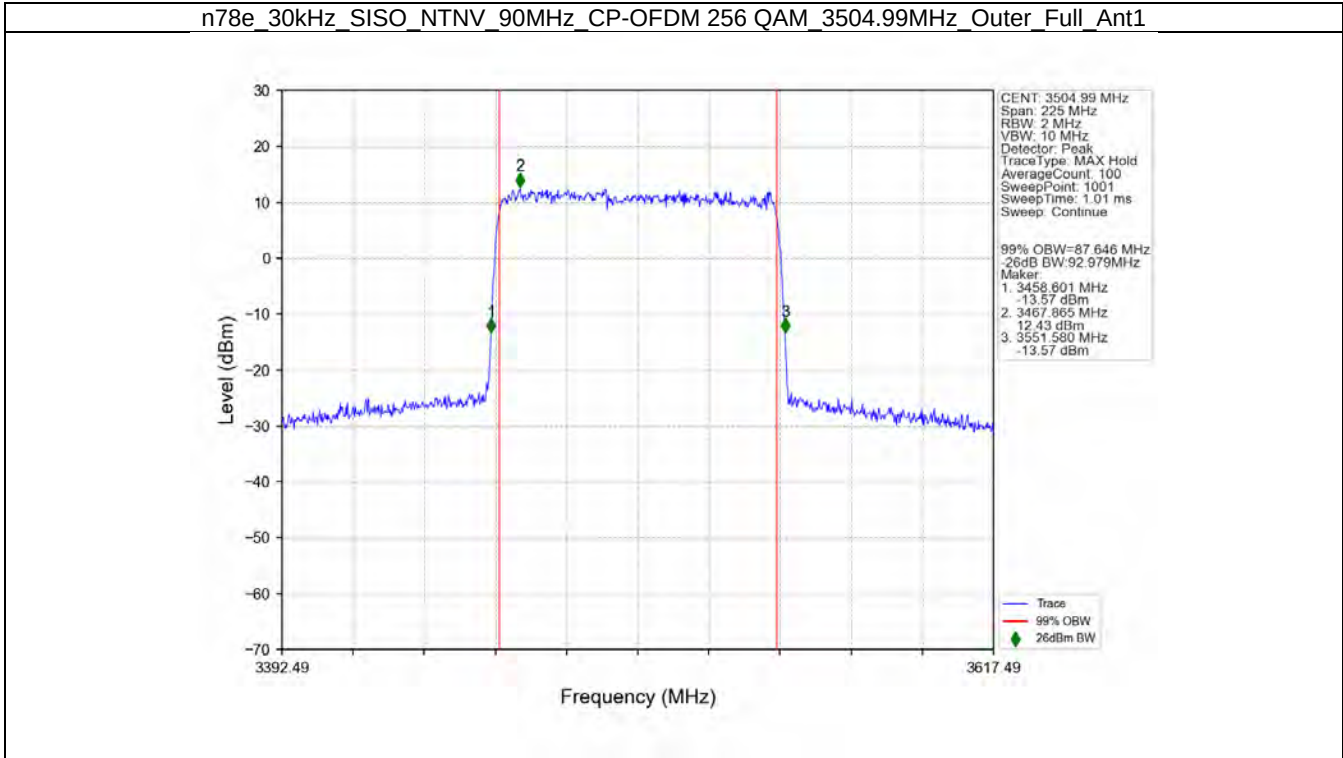


n78e\_30kHz\_SISO\_NTNV\_90MHz\_CP-OFDM\_256\_QAM\_3495MHz\_Outer\_Full\_Ant1



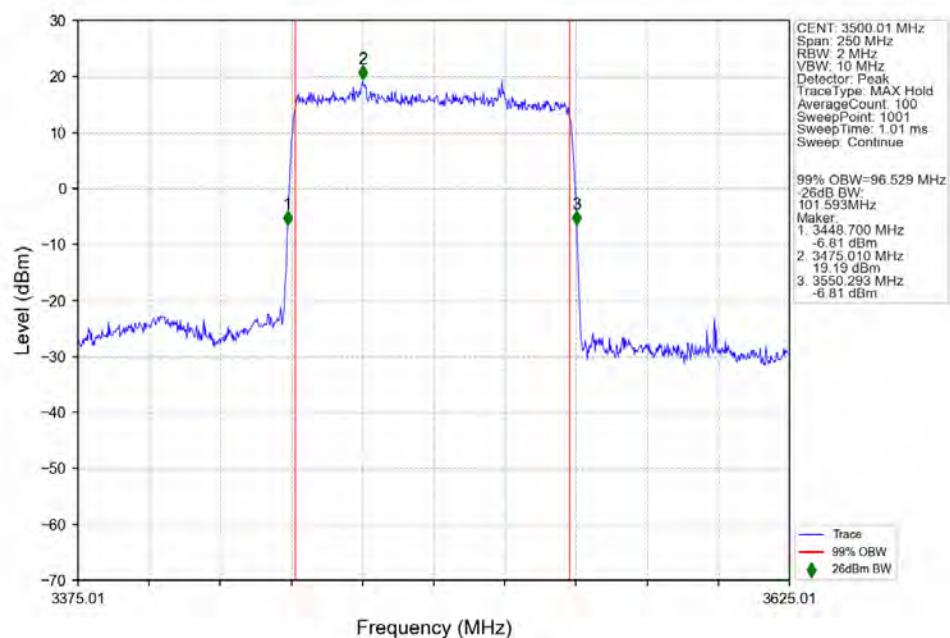
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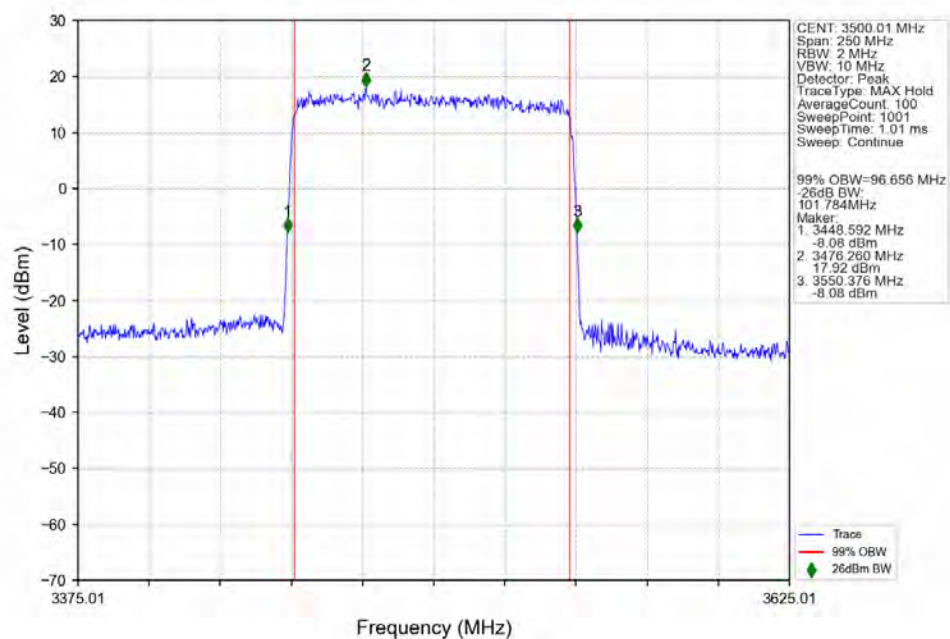


## 3.2.12 30k\_SISO\_100MHz\_NTNV

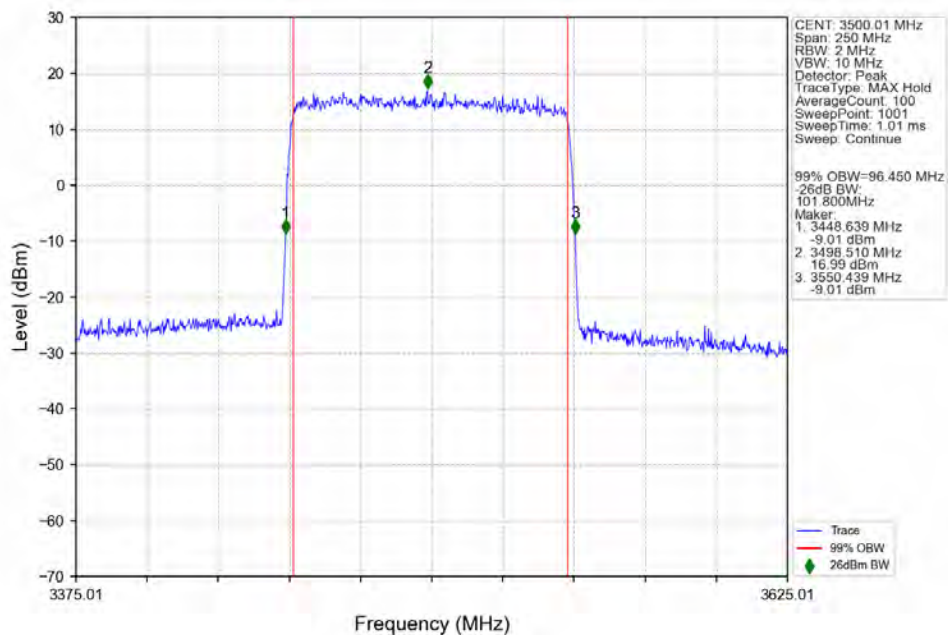
n78e\_30kHz\_SISO\_NTNV\_100MHz\_DFT-s-OFDM PI/2 BPSK\_3500.01MHz\_Outer\_Full\_Ant1



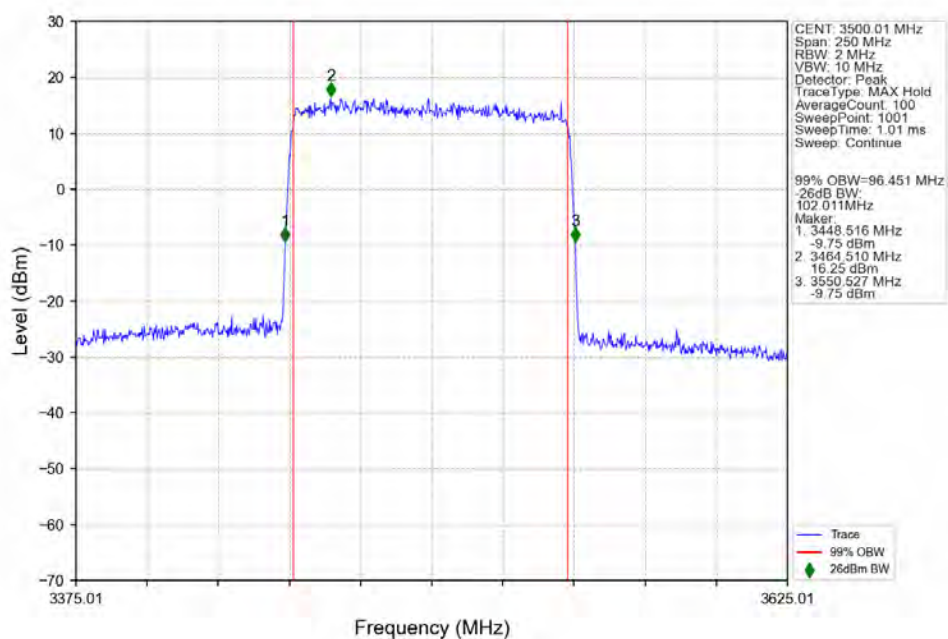
n78e\_30kHz\_SISO\_NTNV\_100MHz\_DFT-s-OFDM QPSK\_3500.01MHz\_Outer\_Full\_Ant1



n78e\_30kHz\_SISO\_NTNV\_100MHz\_DFT-s-OFDM\_16\_QAM\_3500.01MHz\_Outer\_Full\_Ant1

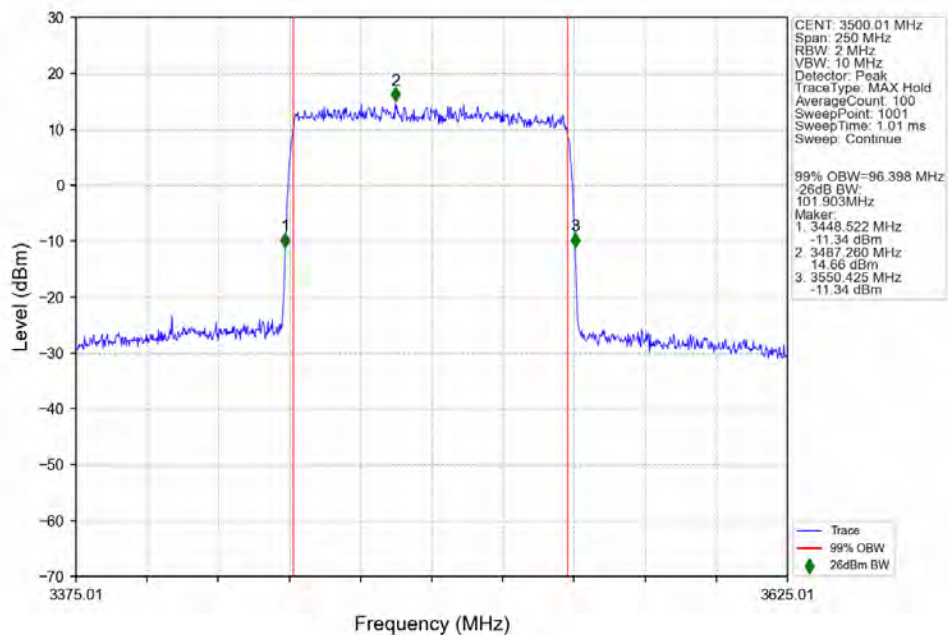


n78e\_30kHz\_SISO\_NTNV\_100MHz\_DFT-s-OFDM\_64\_QAM\_3500.01MHz\_Outer\_Full\_Ant1

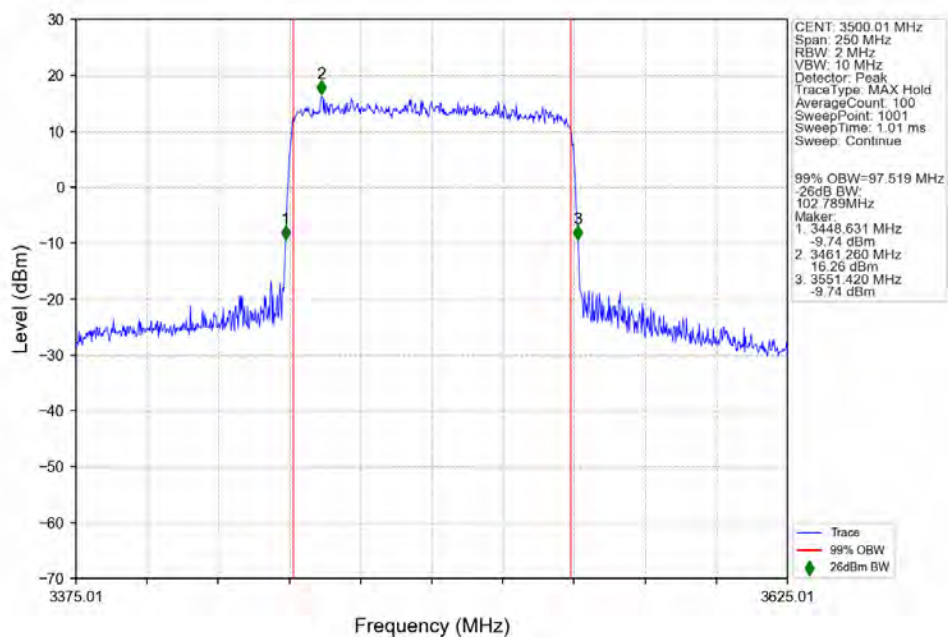




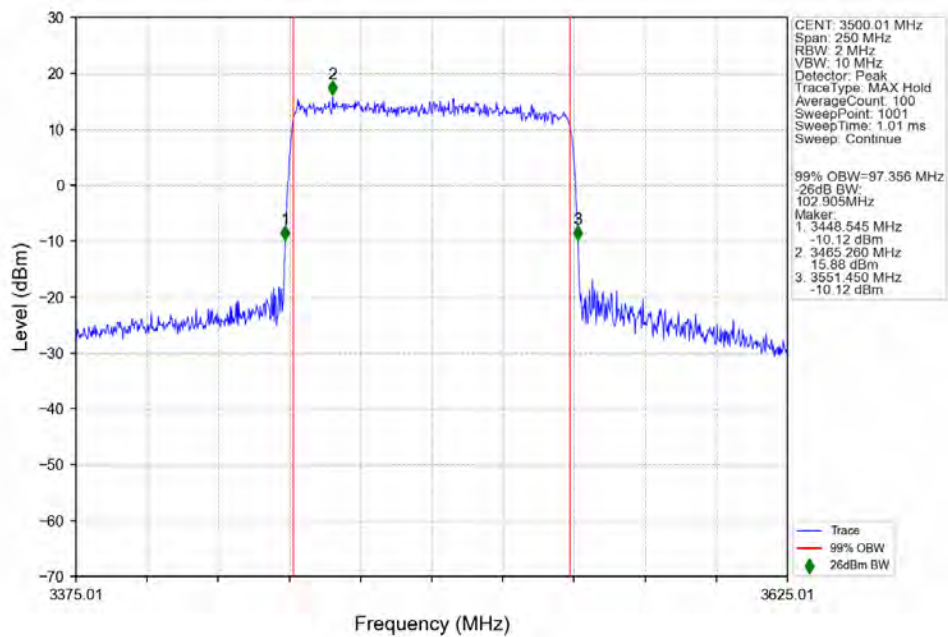
n78e\_30kHz\_SISO\_NTNV\_100MHz\_DFT-s-OFDM\_256\_QAM\_3500.01MHz\_Outer\_Full\_Ant1



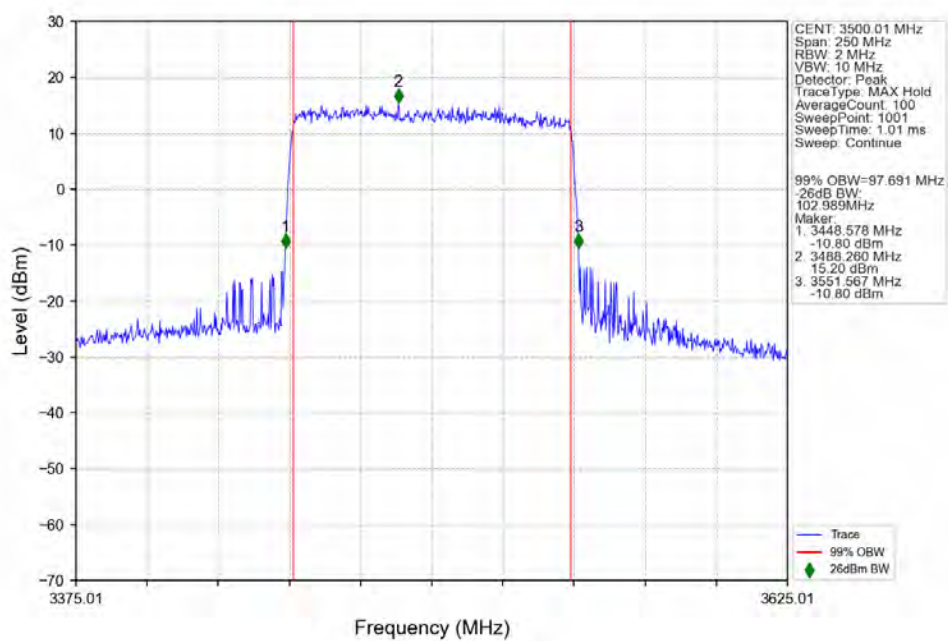
n78e\_30kHz\_SISO\_NTNV\_100MHz\_CP-OFDM\_QPSK\_3500.01MHz\_Outer\_Full\_Ant1



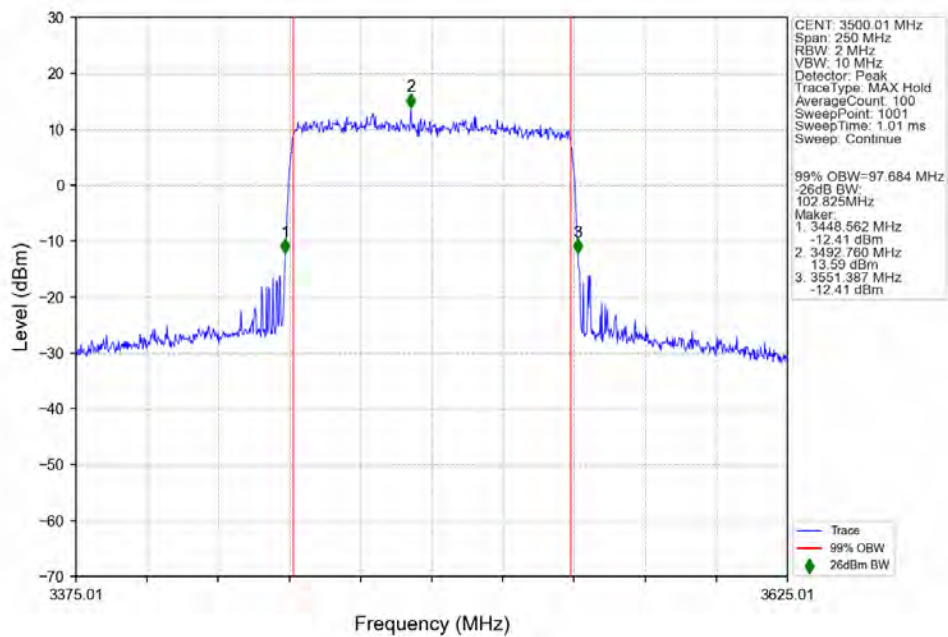
n78e\_30kHz\_SISO\_NTNV\_100MHz\_CP-OFDM\_16\_QAM\_3500.01MHz\_Outer\_Full\_Ant1



n78e\_30kHz\_SISO\_NTNV\_100MHz\_CP-OFDM\_64\_QAM\_3500.01MHz\_Outer\_Full\_Ant1



n78e\_30kHz\_SISO\_NTNV\_100MHz\_CP-OFDM\_256\_QAM\_3500.01MHz\_Outer\_Full\_Ant1



## 4. Peak-Average Ratio

### 4.1 Test Result

#### 4.1.1 30k\_SISO\_10MHz\_NTNV

| 5G NR n78e SCS=30kHz SISO 10MHz NTN |                 |               |                         |      |     |       |         |
|-------------------------------------|-----------------|---------------|-------------------------|------|-----|-------|---------|
| Modulation                          | Frequency (MHz) | RB Allocation | Peak-Average Ratio (dB) |      |     |       | Verdict |
|                                     |                 |               | Ant1                    | Ant2 | Sum | Limit |         |
| DFT-s-OFDM PI/2 BPSK                | 3455.01         | Outer Full    | 4.48                    | /    | /   | <=13  | Pass    |
|                                     | 3500.01         | Outer Full    | 4.42                    | /    | /   | <=13  | Pass    |
|                                     | 3544.98         | Outer Full    | 4.52                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM QPSK                     | 3455.01         | Outer Full    | 5.76                    | /    | /   | <=13  | Pass    |
|                                     | 3500.01         | Outer Full    | 5.62                    | /    | /   | <=13  | Pass    |
|                                     | 3544.98         | Outer Full    | 5.72                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 16 QAM                   | 3455.01         | Outer Full    | 6.62                    | /    | /   | <=13  | Pass    |
|                                     | 3500.01         | Outer Full    | 6.46                    | /    | /   | <=13  | Pass    |
|                                     | 3544.98         | Outer Full    | 6.54                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 64 QAM                   | 3455.01         | Outer Full    | 6.70                    | /    | /   | <=13  | Pass    |
|                                     | 3500.01         | Outer Full    | 6.68                    | /    | /   | <=13  | Pass    |
|                                     | 3544.98         | Outer Full    | 6.70                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 256 QAM                  | 3455.01         | Outer Full    | 6.86                    | /    | /   | <=13  | Pass    |
|                                     | 3500.01         | Outer Full    | 6.80                    | /    | /   | <=13  | Pass    |
|                                     | 3544.98         | Outer Full    | 7.00                    | /    | /   | <=13  | Pass    |
| CP-OFDM QPSK                        | 3455.01         | Outer Full    | 8.22                    | /    | /   | <=13  | Pass    |
|                                     | 3500.01         | Outer Full    | 8.08                    | /    | /   | <=13  | Pass    |
|                                     | 3544.98         | Outer Full    | 8.20                    | /    | /   | <=13  | Pass    |
| CP-OFDM 16 QAM                      | 3455.01         | Outer Full    | 8.60                    | /    | /   | <=13  | Pass    |
|                                     | 3500.01         | Outer Full    | 8.38                    | /    | /   | <=13  | Pass    |
|                                     | 3544.98         | Outer Full    | 8.58                    | /    | /   | <=13  | Pass    |
| CP-OFDM 64 QAM                      | 3455.01         | Outer Full    | 8.16                    | /    | /   | <=13  | Pass    |
|                                     | 3500.01         | Outer Full    | 8.00                    | /    | /   | <=13  | Pass    |
|                                     | 3544.98         | Outer Full    | 8.20                    | /    | /   | <=13  | Pass    |
| CP-OFDM 256 QAM                     | 3455.01         | Outer Full    | 8.74                    | /    | /   | <=13  | Pass    |
|                                     | 3500.01         | Outer Full    | 8.52                    | /    | /   | <=13  | Pass    |
|                                     | 3544.98         | Outer Full    | 8.68                    | /    | /   | <=13  | Pass    |

#### 4.1.2 30k\_SISO\_15MHz\_NTNV

| 5G NR n78e SCS=30kHz SISO 15MHz NTN |                 |               |                         |      |     |       |         |
|-------------------------------------|-----------------|---------------|-------------------------|------|-----|-------|---------|
| Modulation                          | Frequency (MHz) | RB Allocation | Peak-Average Ratio (dB) |      |     |       | Verdict |
|                                     |                 |               | Ant1                    | Ant2 | Sum | Limit |         |
| DFT-s-OFDM PI/2 BPSK                | 3457.5          | Outer Full    | 4.56                    | /    | /   | <=13  | Pass    |
|                                     | 3500.01         | Outer Full    | 4.46                    | /    | /   | <=13  | Pass    |
|                                     | 3542.49         | Outer Full    | 4.56                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM QPSK                     | 3457.5          | Outer Full    | 5.72                    | /    | /   | <=13  | Pass    |
|                                     | 3500.01         | Outer Full    | 5.56                    | /    | /   | <=13  | Pass    |
|                                     | 3542.49         | Outer Full    | 5.68                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 16 QAM                   | 3457.5          | Outer Full    | 6.34                    | /    | /   | <=13  | Pass    |
|                                     | 3500.01         | Outer Full    | 6.20                    | /    | /   | <=13  | Pass    |
|                                     | 3542.49         | Outer Full    | 6.40                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 64 QAM                   | 3457.5          | Outer Full    | 6.62                    | /    | /   | <=13  | Pass    |
|                                     | 3500.01         | Outer Full    | 6.48                    | /    | /   | <=13  | Pass    |
|                                     | 3542.49         | Outer Full    | 6.62                    | /    | /   | <=13  | Pass    |

|                    |         |            |      |   |   |      |      |
|--------------------|---------|------------|------|---|---|------|------|
| DFT-s-OFDM 256 QAM | 3457.5  | Outer_Full | 6.78 | / | / | <=13 | Pass |
|                    | 3500.01 | Outer_Full | 6.76 | / | / | <=13 | Pass |
|                    | 3542.49 | Outer_Full | 6.86 | / | / | <=13 | Pass |
| CP-OFDM QPSK       | 3457.5  | Outer_Full | 8.18 | / | / | <=13 | Pass |
|                    | 3500.01 | Outer_Full | 8.04 | / | / | <=13 | Pass |
|                    | 3542.49 | Outer_Full | 8.22 | / | / | <=13 | Pass |
| CP-OFDM 16 QAM     | 3457.5  | Outer_Full | 8.06 | / | / | <=13 | Pass |
|                    | 3500.01 | Outer_Full | 7.90 | / | / | <=13 | Pass |
|                    | 3542.49 | Outer_Full | 8.14 | / | / | <=13 | Pass |
| CP-OFDM 64 QAM     | 3457.5  | Outer_Full | 8.28 | / | / | <=13 | Pass |
|                    | 3500.01 | Outer_Full | 8.12 | / | / | <=13 | Pass |
|                    | 3542.49 | Outer_Full | 8.30 | / | / | <=13 | Pass |
| CP-OFDM 256 QAM    | 3457.5  | Outer_Full | 8.58 | / | / | <=13 | Pass |
|                    | 3500.01 | Outer_Full | 8.50 | / | / | <=13 | Pass |
|                    | 3542.49 | Outer_Full | 8.68 | / | / | <=13 | Pass |

## 4.1.3 30k\_SISO\_20MHz\_NTNV

| 5G NR n78e SCS=30kHz SISO 20MHz NTN |                 |               |                         |      |     |       |         |
|-------------------------------------|-----------------|---------------|-------------------------|------|-----|-------|---------|
| Modulation                          | Frequency (MHz) | RB Allocation | Peak-Average Ratio (dB) |      |     |       | Verdict |
|                                     |                 |               | Ant1                    | Ant2 | Sum | Limit |         |
| DFT-s-OFDM PI/2 BPSK                | 3460.02         | Outer_Full    | 4.60                    | /    | /   | <=13  | Pass    |
|                                     | 3500.01         | Outer_Full    | 4.54                    | /    | /   | <=13  | Pass    |
|                                     | 3540            | Outer_Full    | 4.62                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM QPSK                     | 3460.02         | Outer_Full    | 5.72                    | /    | /   | <=13  | Pass    |
|                                     | 3500.01         | Outer_Full    | 5.66                    | /    | /   | <=13  | Pass    |
|                                     | 3540            | Outer_Full    | 5.76                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 16 QAM                   | 3460.02         | Outer_Full    | 6.50                    | /    | /   | <=13  | Pass    |
|                                     | 3500.01         | Outer_Full    | 6.42                    | /    | /   | <=13  | Pass    |
|                                     | 3540            | Outer_Full    | 6.52                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 64 QAM                   | 3460.02         | Outer_Full    | 6.60                    | /    | /   | <=13  | Pass    |
|                                     | 3500.01         | Outer_Full    | 6.50                    | /    | /   | <=13  | Pass    |
|                                     | 3540            | Outer_Full    | 6.62                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 256 QAM                  | 3460.02         | Outer_Full    | 6.78                    | /    | /   | <=13  | Pass    |
|                                     | 3500.01         | Outer_Full    | 6.70                    | /    | /   | <=13  | Pass    |
|                                     | 3540            | Outer_Full    | 6.84                    | /    | /   | <=13  | Pass    |
| CP-OFDM QPSK                        | 3460.02         | Outer_Full    | 8.28                    | /    | /   | <=13  | Pass    |
|                                     | 3500.01         | Outer_Full    | 8.10                    | /    | /   | <=13  | Pass    |
|                                     | 3540            | Outer_Full    | 8.32                    | /    | /   | <=13  | Pass    |
| CP-OFDM 16 QAM                      | 3460.02         | Outer_Full    | 8.18                    | /    | /   | <=13  | Pass    |
|                                     | 3500.01         | Outer_Full    | 8.06                    | /    | /   | <=13  | Pass    |
|                                     | 3540            | Outer_Full    | 8.28                    | /    | /   | <=13  | Pass    |
| CP-OFDM 64 QAM                      | 3460.02         | Outer_Full    | 8.38                    | /    | /   | <=13  | Pass    |
|                                     | 3500.01         | Outer_Full    | 8.14                    | /    | /   | <=13  | Pass    |
|                                     | 3540            | Outer_Full    | 8.34                    | /    | /   | <=13  | Pass    |
| CP-OFDM 256 QAM                     | 3460.02         | Outer_Full    | 8.58                    | /    | /   | <=13  | Pass    |
|                                     | 3500.01         | Outer_Full    | 8.30                    | /    | /   | <=13  | Pass    |
|                                     | 3540            | Outer_Full    | 8.50                    | /    | /   | <=13  | Pass    |

## 4.1.4 30k\_SISO\_25MHz\_NTNV

| 5G NR n78e SCS=30kHz SISO 25MHz NTN |                 |               |                         |      |     |       |         |
|-------------------------------------|-----------------|---------------|-------------------------|------|-----|-------|---------|
| Modulation                          | Frequency (MHz) | RB Allocation | Peak-Average Ratio (dB) |      |     |       | Verdict |
|                                     |                 |               | Ant1                    | Ant2 | Sum | Limit |         |
| DFT-s-OFDM PI/2 BPSK                | 3462.51         | Outer_Full    | 4.50                    | /    | /   | <=13  | Pass    |
|                                     | 3500.01         | Outer_Full    | 4.46                    | /    | /   | <=13  | Pass    |



|                   |         |            |      |   |   |      |      |
|-------------------|---------|------------|------|---|---|------|------|
|                   | 3537.48 | Outer Full | 4.56 | / | / | <=13 | Pass |
| DFT-s-OFDM QPSK   | 3462.51 | Outer Full | 5.72 | / | / | <=13 | Pass |
|                   | 3500.01 | Outer Full | 5.68 | / | / | <=13 | Pass |
|                   | 3537.48 | Outer Full | 5.76 | / | / | <=13 | Pass |
|                   | 3462.51 | Outer Full | 6.40 | / | / | <=13 | Pass |
| DFT-s-OFDM 16 QAM | 3500.01 | Outer Full | 6.32 | / | / | <=13 | Pass |
|                   | 3537.48 | Outer Full | 6.40 | / | / | <=13 | Pass |
|                   | 3462.51 | Outer Full | 6.58 | / | / | <=13 | Pass |
|                   | 3500.01 | Outer Full | 6.46 | / | / | <=13 | Pass |
| DFT-s-OFDM 64 QAM | 3537.48 | Outer Full | 6.54 | / | / | <=13 | Pass |
|                   | 3462.51 | Outer Full | 6.78 | / | / | <=13 | Pass |
|                   | 3500.01 | Outer Full | 6.78 | / | / | <=13 | Pass |
|                   | 3537.48 | Outer Full | 6.84 | / | / | <=13 | Pass |
| CP-OFDM QPSK      | 3462.51 | Outer Full | 8.12 | / | / | <=13 | Pass |
|                   | 3500.01 | Outer Full | 7.98 | / | / | <=13 | Pass |
|                   | 3537.48 | Outer Full | 8.10 | / | / | <=13 | Pass |
|                   | 3462.51 | Outer Full | 8.18 | / | / | <=13 | Pass |
| CP-OFDM 16 QAM    | 3500.01 | Outer Full | 8.02 | / | / | <=13 | Pass |
|                   | 3537.48 | Outer Full | 8.10 | / | / | <=13 | Pass |
|                   | 3462.51 | Outer Full | 8.18 | / | / | <=13 | Pass |
|                   | 3500.01 | Outer Full | 8.18 | / | / | <=13 | Pass |
| CP-OFDM 64 QAM    | 3537.48 | Outer Full | 8.20 | / | / | <=13 | Pass |
|                   | 3462.51 | Outer Full | 8.52 | / | / | <=13 | Pass |
|                   | 3500.01 | Outer Full | 8.48 | / | / | <=13 | Pass |
|                   | 3537.48 | Outer Full | 8.56 | / | / | <=13 | Pass |

## 4.1.5 30k\_SISO\_30MHz\_NTNV

| 5G NR n78e SCS=30kHz SISO 30MHz NTN |                 |               |                         |      |     |       |         |
|-------------------------------------|-----------------|---------------|-------------------------|------|-----|-------|---------|
| Modulation                          | Frequency (MHz) | RB Allocation | Peak-Average Ratio (dB) |      |     |       | Verdict |
|                                     |                 |               | Ant1                    | Ant2 | Sum | Limit |         |
| DFT-s-OFDM PI/2 BPSK                | 3465            | Outer Full    | 4.38                    | /    | /   | <=13  | Pass    |
|                                     | 3500.01         | Outer Full    | 4.42                    | /    | /   | <=13  | Pass    |
|                                     | 3534.99         | Outer Full    | 4.46                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM QPSK                     | 3465            | Outer Full    | 5.62                    | /    | /   | <=13  | Pass    |
|                                     | 3500.01         | Outer Full    | 5.58                    | /    | /   | <=13  | Pass    |
|                                     | 3534.99         | Outer Full    | 5.64                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 16 QAM                   | 3465            | Outer Full    | 6.38                    | /    | /   | <=13  | Pass    |
|                                     | 3500.01         | Outer Full    | 6.32                    | /    | /   | <=13  | Pass    |
|                                     | 3534.99         | Outer Full    | 6.38                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 64 QAM                   | 3465            | Outer Full    | 6.52                    | /    | /   | <=13  | Pass    |
|                                     | 3500.01         | Outer Full    | 6.42                    | /    | /   | <=13  | Pass    |
|                                     | 3534.99         | Outer Full    | 6.48                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 256 QAM                  | 3465            | Outer Full    | 6.68                    | /    | /   | <=13  | Pass    |
|                                     | 3500.01         | Outer Full    | 6.66                    | /    | /   | <=13  | Pass    |
|                                     | 3534.99         | Outer Full    | 6.76                    | /    | /   | <=13  | Pass    |
| CP-OFDM QPSK                        | 3465            | Outer Full    | 8.06                    | /    | /   | <=13  | Pass    |
|                                     | 3500.01         | Outer Full    | 7.94                    | /    | /   | <=13  | Pass    |
|                                     | 3534.99         | Outer Full    | 8.06                    | /    | /   | <=13  | Pass    |
| CP-OFDM 16 QAM                      | 3465            | Outer Full    | 8.06                    | /    | /   | <=13  | Pass    |
|                                     | 3500.01         | Outer Full    | 7.92                    | /    | /   | <=13  | Pass    |
|                                     | 3534.99         | Outer Full    | 8.04                    | /    | /   | <=13  | Pass    |
| CP-OFDM 64 QAM                      | 3465            | Outer Full    | 8.22                    | /    | /   | <=13  | Pass    |
|                                     | 3500.01         | Outer Full    | 8.12                    | /    | /   | <=13  | Pass    |
|                                     | 3534.99         | Outer Full    | 8.26                    | /    | /   | <=13  | Pass    |
| CP-OFDM 256 QAM                     | 3465            | Outer Full    | 8.56                    | /    | /   | <=13  | Pass    |
|                                     | 3500.01         | Outer Full    | 8.52                    | /    | /   | <=13  | Pass    |

|  |         |            |      |   |   |      |      |
|--|---------|------------|------|---|---|------|------|
|  | 3534.99 | Outer_Full | 8.66 | / | / | <=13 | Pass |
|--|---------|------------|------|---|---|------|------|

## 4.1.6 30k\_SISO\_40MHz\_NTNV

| 5G NR n78e SCS=30kHz SISO 40MHz NTN |                 |               |                         |      |     |       |         |
|-------------------------------------|-----------------|---------------|-------------------------|------|-----|-------|---------|
| Modulation                          | Frequency (MHz) | RB Allocation | Peak-Average Ratio (dB) |      |     |       | Verdict |
|                                     |                 |               | Ant1                    | Ant2 | Sum | Limit |         |
| DFT-s-OFDM PI/2 BPSK                | 3470.01         | Outer_Full    | 4.34                    | /    | /   | <=13  | Pass    |
|                                     | 3500.01         | Outer_Full    | 4.50                    | /    | /   | <=13  | Pass    |
|                                     | 3529.98         | Outer_Full    | 4.46                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM QPSK                     | 3470.01         | Outer_Full    | 5.58                    | /    | /   | <=13  | Pass    |
|                                     | 3500.01         | Outer_Full    | 5.64                    | /    | /   | <=13  | Pass    |
|                                     | 3529.98         | Outer_Full    | 5.64                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 16 QAM                   | 3470.01         | Outer_Full    | 6.34                    | /    | /   | <=13  | Pass    |
|                                     | 3500.01         | Outer_Full    | 6.30                    | /    | /   | <=13  | Pass    |
|                                     | 3529.98         | Outer_Full    | 6.34                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 64 QAM                   | 3470.01         | Outer_Full    | 6.56                    | /    | /   | <=13  | Pass    |
|                                     | 3500.01         | Outer_Full    | 6.54                    | /    | /   | <=13  | Pass    |
|                                     | 3529.98         | Outer_Full    | 6.56                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 256 QAM                  | 3470.01         | Outer_Full    | 6.76                    | /    | /   | <=13  | Pass    |
|                                     | 3500.01         | Outer_Full    | 6.74                    | /    | /   | <=13  | Pass    |
|                                     | 3529.98         | Outer_Full    | 6.82                    | /    | /   | <=13  | Pass    |
| CP-OFDM QPSK                        | 3470.01         | Outer_Full    | 8.14                    | /    | /   | <=13  | Pass    |
|                                     | 3500.01         | Outer_Full    | 8.04                    | /    | /   | <=13  | Pass    |
|                                     | 3529.98         | Outer_Full    | 8.12                    | /    | /   | <=13  | Pass    |
| CP-OFDM 16 QAM                      | 3470.01         | Outer_Full    | 8.16                    | /    | /   | <=13  | Pass    |
|                                     | 3500.01         | Outer_Full    | 8.06                    | /    | /   | <=13  | Pass    |
|                                     | 3529.98         | Outer_Full    | 8.16                    | /    | /   | <=13  | Pass    |
| CP-OFDM 64 QAM                      | 3470.01         | Outer_Full    | 8.26                    | /    | /   | <=13  | Pass    |
|                                     | 3500.01         | Outer_Full    | 8.14                    | /    | /   | <=13  | Pass    |
|                                     | 3529.98         | Outer_Full    | 8.18                    | /    | /   | <=13  | Pass    |
| CP-OFDM 256 QAM                     | 3470.01         | Outer_Full    | 8.58                    | /    | /   | <=13  | Pass    |
|                                     | 3500.01         | Outer_Full    | 8.58                    | /    | /   | <=13  | Pass    |
|                                     | 3529.98         | Outer_Full    | 8.62                    | /    | /   | <=13  | Pass    |

## 4.1.7 30k\_SISO\_50MHz\_NTNV

| 5G NR n78e SCS=30kHz SISO 50MHz NTN |                 |               |                         |      |     |       |         |
|-------------------------------------|-----------------|---------------|-------------------------|------|-----|-------|---------|
| Modulation                          | Frequency (MHz) | RB Allocation | Peak-Average Ratio (dB) |      |     |       | Verdict |
|                                     |                 |               | Ant1                    | Ant2 | Sum | Limit |         |
| DFT-s-OFDM PI/2 BPSK                | 3475.02         | Outer_Full    | 4.66                    | /    | /   | <=13  | Pass    |
|                                     | 3500.01         | Outer_Full    | 4.66                    | /    | /   | <=13  | Pass    |
|                                     | 3525            | Outer_Full    | 4.64                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM QPSK                     | 3475.02         | Outer_Full    | 5.52                    | /    | /   | <=13  | Pass    |
|                                     | 3500.01         | Outer_Full    | 5.62                    | /    | /   | <=13  | Pass    |
|                                     | 3525            | Outer_Full    | 5.54                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 16 QAM                   | 3475.02         | Outer_Full    | 6.28                    | /    | /   | <=13  | Pass    |
|                                     | 3500.01         | Outer_Full    | 6.30                    | /    | /   | <=13  | Pass    |
|                                     | 3525            | Outer_Full    | 6.26                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 64 QAM                   | 3475.02         | Outer_Full    | 6.46                    | /    | /   | <=13  | Pass    |
|                                     | 3500.01         | Outer_Full    | 6.46                    | /    | /   | <=13  | Pass    |
|                                     | 3525            | Outer_Full    | 6.44                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 256 QAM                  | 3475.02         | Outer_Full    | 6.72                    | /    | /   | <=13  | Pass    |
|                                     | 3500.01         | Outer_Full    | 6.80                    | /    | /   | <=13  | Pass    |
|                                     | 3525            | Outer_Full    | 6.74                    | /    | /   | <=13  | Pass    |
| CP-OFDM QPSK                        | 3475.02         | Outer_Full    | 8.02                    | /    | /   | <=13  | Pass    |

|                 |         |            |      |   |   |      |      |
|-----------------|---------|------------|------|---|---|------|------|
| CP-OFDM 16 QAM  | 3500.01 | Outer_Full | 7.96 | / | / | <=13 | Pass |
|                 | 3525    | Outer_Full | 8.00 | / | / | <=13 | Pass |
|                 | 3475.02 | Outer_Full | 7.98 | / | / | <=13 | Pass |
|                 | 3500.01 | Outer_Full | 7.96 | / | / | <=13 | Pass |
|                 | 3525    | Outer_Full | 7.94 | / | / | <=13 | Pass |
| CP-OFDM 64 QAM  | 3475.02 | Outer_Full | 8.14 | / | / | <=13 | Pass |
|                 | 3500.01 | Outer_Full | 8.02 | / | / | <=13 | Pass |
|                 | 3525    | Outer_Full | 8.04 | / | / | <=13 | Pass |
| CP-OFDM 256 QAM | 3475.02 | Outer_Full | 8.54 | / | / | <=13 | Pass |
|                 | 3500.01 | Outer_Full | 8.56 | / | / | <=13 | Pass |
|                 | 3525    | Outer_Full | 8.60 | / | / | <=13 | Pass |

## 4.1.8 30k\_SISO\_60MHz\_NTNV

| 5G NR n78e SCS=30kHz SISO 60MHz NTN |                 |               |                         |      |     |       |         |
|-------------------------------------|-----------------|---------------|-------------------------|------|-----|-------|---------|
| Modulation                          | Frequency (MHz) | RB Allocation | Peak-Average Ratio (dB) |      |     |       | Verdict |
|                                     |                 |               | Ant1                    | Ant2 | Sum | Limit |         |
| DFT-s-OFDM PI/2 BPSK                | 3480            | Outer_Full    | 4.52                    | /    | /   | <=13  | Pass    |
|                                     | 3500.01         | Outer_Full    | 4.56                    | /    | /   | <=13  | Pass    |
|                                     | 3519.99         | Outer_Full    | 4.42                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM QPSK                     | 3480            | Outer_Full    | 5.68                    | /    | /   | <=13  | Pass    |
|                                     | 3500.01         | Outer_Full    | 5.70                    | /    | /   | <=13  | Pass    |
|                                     | 3519.99         | Outer_Full    | 5.62                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 16 QAM                   | 3480            | Outer_Full    | 6.38                    | /    | /   | <=13  | Pass    |
|                                     | 3500.01         | Outer_Full    | 6.38                    | /    | /   | <=13  | Pass    |
|                                     | 3519.99         | Outer_Full    | 6.32                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 64 QAM                   | 3480            | Outer_Full    | 6.56                    | /    | /   | <=13  | Pass    |
|                                     | 3500.01         | Outer_Full    | 6.64                    | /    | /   | <=13  | Pass    |
|                                     | 3519.99         | Outer_Full    | 6.60                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 256 QAM                  | 3480            | Outer_Full    | 6.74                    | /    | /   | <=13  | Pass    |
|                                     | 3500.01         | Outer_Full    | 6.74                    | /    | /   | <=13  | Pass    |
|                                     | 3519.99         | Outer_Full    | 6.70                    | /    | /   | <=13  | Pass    |
| CP-OFDM QPSK                        | 3480            | Outer_Full    | 8.20                    | /    | /   | <=13  | Pass    |
|                                     | 3500.01         | Outer_Full    | 8.14                    | /    | /   | <=13  | Pass    |
|                                     | 3519.99         | Outer_Full    | 8.12                    | /    | /   | <=13  | Pass    |
| CP-OFDM 16 QAM                      | 3480            | Outer_Full    | 8.22                    | /    | /   | <=13  | Pass    |
|                                     | 3500.01         | Outer_Full    | 8.16                    | /    | /   | <=13  | Pass    |
|                                     | 3519.99         | Outer_Full    | 8.10                    | /    | /   | <=13  | Pass    |
| CP-OFDM 64 QAM                      | 3480            | Outer_Full    | 8.30                    | /    | /   | <=13  | Pass    |
|                                     | 3500.01         | Outer_Full    | 8.24                    | /    | /   | <=13  | Pass    |
|                                     | 3519.99         | Outer_Full    | 8.22                    | /    | /   | <=13  | Pass    |
| CP-OFDM 256 QAM                     | 3480            | Outer_Full    | 8.46                    | /    | /   | <=13  | Pass    |
|                                     | 3500.01         | Outer_Full    | 8.46                    | /    | /   | <=13  | Pass    |
|                                     | 3519.99         | Outer_Full    | 8.54                    | /    | /   | <=13  | Pass    |

## 4.1.9 30k\_SISO\_70MHz\_NTNV

| 5G NR n78e SCS=30kHz SISO 70MHz NTN |                 |               |                         |      |     |       |         |
|-------------------------------------|-----------------|---------------|-------------------------|------|-----|-------|---------|
| Modulation                          | Frequency (MHz) | RB Allocation | Peak-Average Ratio (dB) |      |     |       | Verdict |
|                                     |                 |               | Ant1                    | Ant2 | Sum | Limit |         |
| DFT-s-OFDM PI/2 BPSK                | 3485.01         | Outer_Full    | 4.64                    | /    | /   | <=13  | Pass    |
|                                     | 3500.01         | Outer_Full    | 4.60                    | /    | /   | <=13  | Pass    |
|                                     | 3514.98         | Outer_Full    | 4.56                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM QPSK                     | 3485.01         | Outer_Full    | 5.70                    | /    | /   | <=13  | Pass    |
|                                     | 3500.01         | Outer_Full    | 12.80                   | /    | /   | <=13  | Pass    |
|                                     | 3514.98         | Outer_Full    | 5.64                    | /    | /   | <=13  | Pass    |

|                    |         |            |       |   |   |      |      |
|--------------------|---------|------------|-------|---|---|------|------|
| DFT-s-OFDM 16 QAM  | 3485.01 | Outer Full | 6.44  | / | / | <=13 | Pass |
|                    | 3500.01 | Outer Full | 12.56 | / | / | <=13 | Pass |
|                    | 3514.98 | Outer Full | 6.36  | / | / | <=13 | Pass |
| DFT-s-OFDM 64 QAM  | 3485.01 | Outer Full | 6.66  | / | / | <=13 | Pass |
|                    | 3500.01 | Outer Full | 12.70 | / | / | <=13 | Pass |
|                    | 3514.98 | Outer Full | 6.60  | / | / | <=13 | Pass |
| DFT-s-OFDM 256 QAM | 3485.01 | Outer Full | 6.74  | / | / | <=13 | Pass |
|                    | 3500.01 | Outer Full | 6.76  | / | / | <=13 | Pass |
|                    | 3514.98 | Outer Full | 6.74  | / | / | <=13 | Pass |
| CP-OFDM QPSK       | 3485.01 | Outer Full | 8.22  | / | / | <=13 | Pass |
|                    | 3500.01 | Outer Full | 8.18  | / | / | <=13 | Pass |
|                    | 3514.98 | Outer Full | 8.18  | / | / | <=13 | Pass |
| CP-OFDM 16 QAM     | 3485.01 | Outer Full | 8.22  | / | / | <=13 | Pass |
|                    | 3500.01 | Outer Full | 8.20  | / | / | <=13 | Pass |
|                    | 3514.98 | Outer Full | 8.18  | / | / | <=13 | Pass |
| CP-OFDM 64 QAM     | 3485.01 | Outer Full | 8.34  | / | / | <=13 | Pass |
|                    | 3500.01 | Outer Full | 8.30  | / | / | <=13 | Pass |
|                    | 3514.98 | Outer Full | 8.28  | / | / | <=13 | Pass |
| CP-OFDM 256 QAM    | 3485.01 | Outer Full | 8.56  | / | / | <=13 | Pass |
|                    | 3500.01 | Outer Full | 8.54  | / | / | <=13 | Pass |
|                    | 3514.98 | Outer Full | 8.54  | / | / | <=13 | Pass |

## 4.1.10 30k\_SISO\_80MHz\_NTNV

| 5G NR n78e SCS=30kHz SISO 80MHz NTN |                 |               |                         |      |     |       |         |
|-------------------------------------|-----------------|---------------|-------------------------|------|-----|-------|---------|
| Modulation                          | Frequency (MHz) | RB Allocation | Peak-Average Ratio (dB) |      |     |       | Verdict |
|                                     |                 |               | Ant1                    | Ant2 | Sum | Limit |         |
| DFT-s-OFDM PI/2 BPSK                | 3490.02         | Outer Full    | 4.98                    | /    | /   | <=13  | Pass    |
|                                     | 3500.01         | Outer Full    | 5.02                    | /    | /   | <=13  | Pass    |
|                                     | 3510            | Outer Full    | 5.00                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM QPSK                     | 3490.02         | Outer Full    | 5.76                    | /    | /   | <=13  | Pass    |
|                                     | 3500.01         | Outer Full    | 5.76                    | /    | /   | <=13  | Pass    |
|                                     | 3510            | Outer Full    | 5.74                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 16 QAM                   | 3490.02         | Outer Full    | 6.42                    | /    | /   | <=13  | Pass    |
|                                     | 3500.01         | Outer Full    | 6.44                    | /    | /   | <=13  | Pass    |
|                                     | 3510            | Outer Full    | 6.42                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 64 QAM                   | 3490.02         | Outer Full    | 6.70                    | /    | /   | <=13  | Pass    |
|                                     | 3500.01         | Outer Full    | 6.70                    | /    | /   | <=13  | Pass    |
|                                     | 3510            | Outer Full    | 6.62                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 256 QAM                  | 3490.02         | Outer Full    | 6.88                    | /    | /   | <=13  | Pass    |
|                                     | 3500.01         | Outer Full    | 6.84                    | /    | /   | <=13  | Pass    |
|                                     | 3510            | Outer Full    | 6.84                    | /    | /   | <=13  | Pass    |
| CP-OFDM QPSK                        | 3490.02         | Outer Full    | 8.30                    | /    | /   | <=13  | Pass    |
|                                     | 3500.01         | Outer Full    | 8.30                    | /    | /   | <=13  | Pass    |
|                                     | 3510            | Outer Full    | 8.28                    | /    | /   | <=13  | Pass    |
| CP-OFDM 16 QAM                      | 3490.02         | Outer Full    | 8.36                    | /    | /   | <=13  | Pass    |
|                                     | 3500.01         | Outer Full    | 8.28                    | /    | /   | <=13  | Pass    |
|                                     | 3510            | Outer Full    | 8.30                    | /    | /   | <=13  | Pass    |
| CP-OFDM 64 QAM                      | 3490.02         | Outer Full    | 8.32                    | /    | /   | <=13  | Pass    |
|                                     | 3500.01         | Outer Full    | 8.34                    | /    | /   | <=13  | Pass    |
|                                     | 3510            | Outer Full    | 8.32                    | /    | /   | <=13  | Pass    |
| CP-OFDM 256 QAM                     | 3490.02         | Outer Full    | 8.52                    | /    | /   | <=13  | Pass    |
|                                     | 3500.01         | Outer Full    | 8.50                    | /    | /   | <=13  | Pass    |
|                                     | 3510            | Outer Full    | 8.52                    | /    | /   | <=13  | Pass    |

## 4.1.11 30k\_SISO\_90MHz\_NTNV

| 5G NR n78e SCS=30kHz SISO 90MHz NTN |                 |               |                         |      |     |       |         |
|-------------------------------------|-----------------|---------------|-------------------------|------|-----|-------|---------|
| Modulation                          | Frequency (MHz) | RB Allocation | Peak-Average Ratio (dB) |      |     |       | Verdict |
|                                     |                 |               | Ant1                    | Ant2 | Sum | Limit |         |
| DFT-s-OFDM PI/2 BPSK                | 3495            | Outer Full    | 4.44                    | /    | /   | <=13  | Pass    |
|                                     | 3500.01         | Outer Full    | 4.48                    | /    | /   | <=13  | Pass    |
|                                     | 3504.99         | Outer Full    | 4.54                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM QPSK                     | 3495            | Outer Full    | 5.68                    | /    | /   | <=13  | Pass    |
|                                     | 3500.01         | Outer Full    | 5.68                    | /    | /   | <=13  | Pass    |
|                                     | 3504.99         | Outer Full    | 12.24                   | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 16 QAM                   | 3495            | Outer Full    | 6.40                    | /    | /   | <=13  | Pass    |
|                                     | 3500.01         | Outer Full    | 6.40                    | /    | /   | <=13  | Pass    |
|                                     | 3504.99         | Outer Full    | 12.54                   | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 64 QAM                   | 3495            | Outer Full    | 6.62                    | /    | /   | <=13  | Pass    |
|                                     | 3500.01         | Outer Full    | 6.62                    | /    | /   | <=13  | Pass    |
|                                     | 3504.99         | Outer Full    | 12.64                   | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 256 QAM                  | 3495            | Outer Full    | 6.82                    | /    | /   | <=13  | Pass    |
|                                     | 3500.01         | Outer Full    | 6.80                    | /    | /   | <=13  | Pass    |
|                                     | 3504.99         | Outer Full    | 6.84                    | /    | /   | <=13  | Pass    |
| CP-OFDM QPSK                        | 3495            | Outer Full    | 8.26                    | /    | /   | <=13  | Pass    |
|                                     | 3500.01         | Outer Full    | 8.24                    | /    | /   | <=13  | Pass    |
|                                     | 3504.99         | Outer Full    | 8.26                    | /    | /   | <=13  | Pass    |
| CP-OFDM 16 QAM                      | 3495            | Outer Full    | 8.24                    | /    | /   | <=13  | Pass    |
|                                     | 3500.01         | Outer Full    | 8.22                    | /    | /   | <=13  | Pass    |
|                                     | 3504.99         | Outer Full    | 8.22                    | /    | /   | <=13  | Pass    |
| CP-OFDM 64 QAM                      | 3495            | Outer Full    | 8.34                    | /    | /   | <=13  | Pass    |
|                                     | 3500.01         | Outer Full    | 8.32                    | /    | /   | <=13  | Pass    |
|                                     | 3504.99         | Outer Full    | 8.32                    | /    | /   | <=13  | Pass    |
| CP-OFDM 256 QAM                     | 3495            | Outer Full    | 8.54                    | /    | /   | <=13  | Pass    |
|                                     | 3500.01         | Outer Full    | 8.54                    | /    | /   | <=13  | Pass    |
|                                     | 3504.99         | Outer Full    | 8.52                    | /    | /   | <=13  | Pass    |

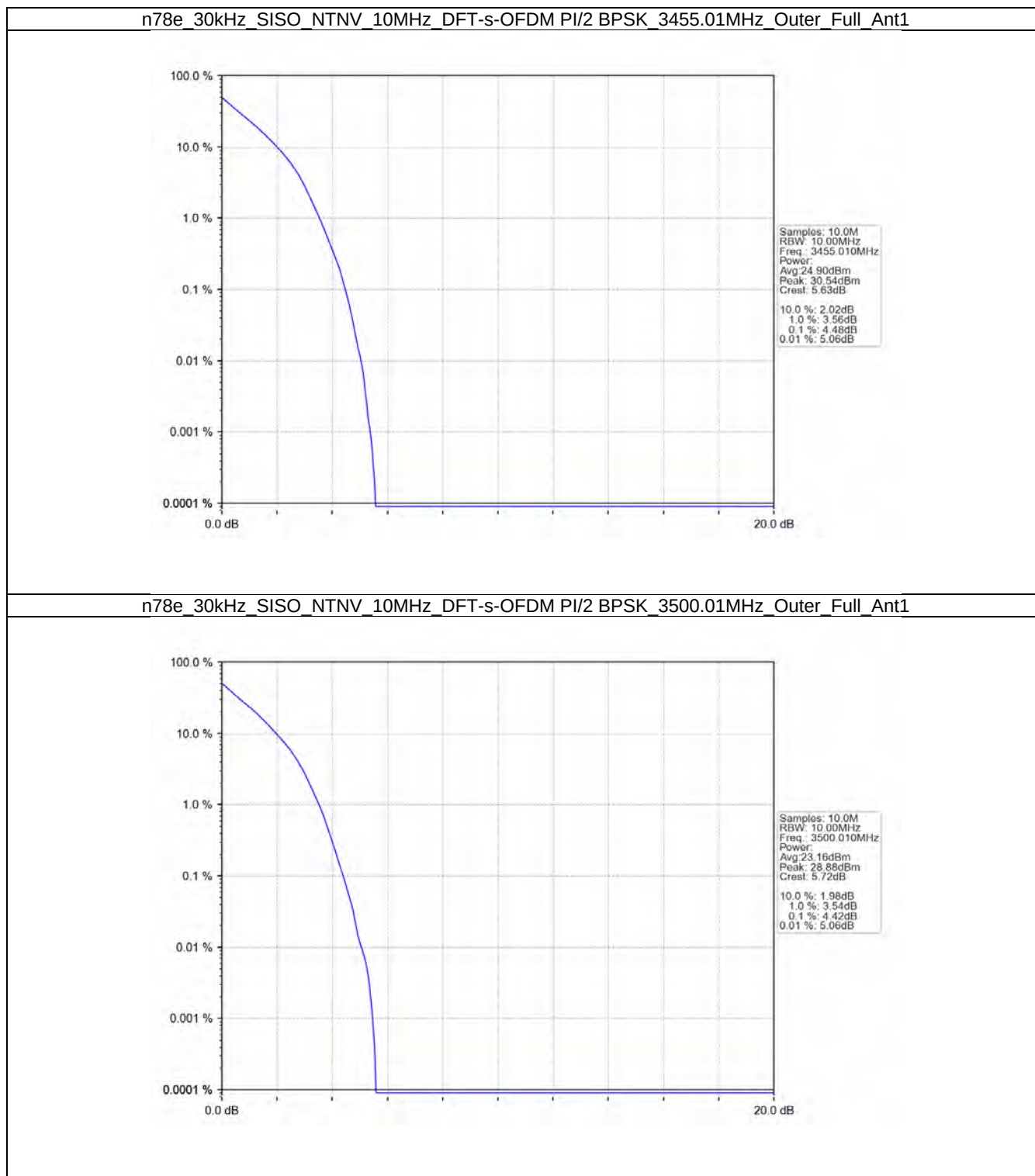
## 4.1.12 30k\_SISO\_100MHz\_NTN

| 5G NR n78e SCS=30kHz SISO 100MHz NTN |                 |               |                         |      |     |       |         |
|--------------------------------------|-----------------|---------------|-------------------------|------|-----|-------|---------|
| Modulation                           | Frequency (MHz) | RB Allocation | Peak-Average Ratio (dB) |      |     |       | Verdict |
|                                      |                 |               | Ant1                    | Ant2 | Sum | Limit |         |
| DFT-s-OFDM PI/2 BPSK                 | 3500.01         | Outer Full    | 5.02                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM QPSK                      | 3500.01         | Outer Full    | 12.36                   | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 16 QAM                    | 3500.01         | Outer Full    | 12.14                   | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 64 QAM                    | 3500.01         | Outer Full    | 6.66                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 256 QAM                   | 3500.01         | Outer Full    | 6.74                    | /    | /   | <=13  | Pass    |
| CP-OFDM QPSK                         | 3500.01         | Outer Full    | 8.24                    | /    | /   | <=13  | Pass    |
| CP-OFDM 16 QAM                       | 3500.01         | Outer Full    | 8.26                    | /    | /   | <=13  | Pass    |
| CP-OFDM 64 QAM                       | 3500.01         | Outer Full    | 8.40                    | /    | /   | <=13  | Pass    |
| CP-OFDM 256 QAM                      | 3500.01         | Outer Full    | 8.52                    | /    | /   | <=13  | Pass    |

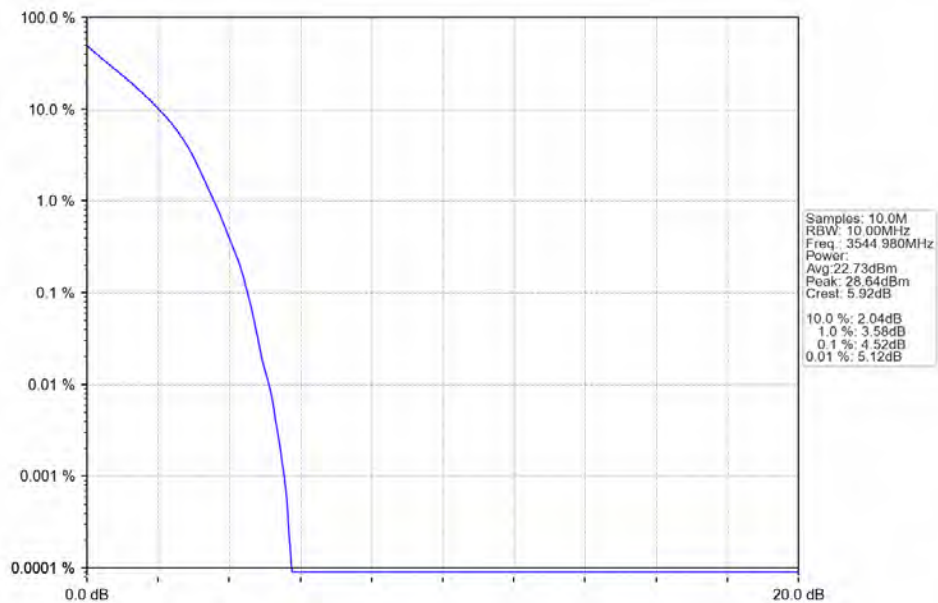


## 4.2 Test Graph

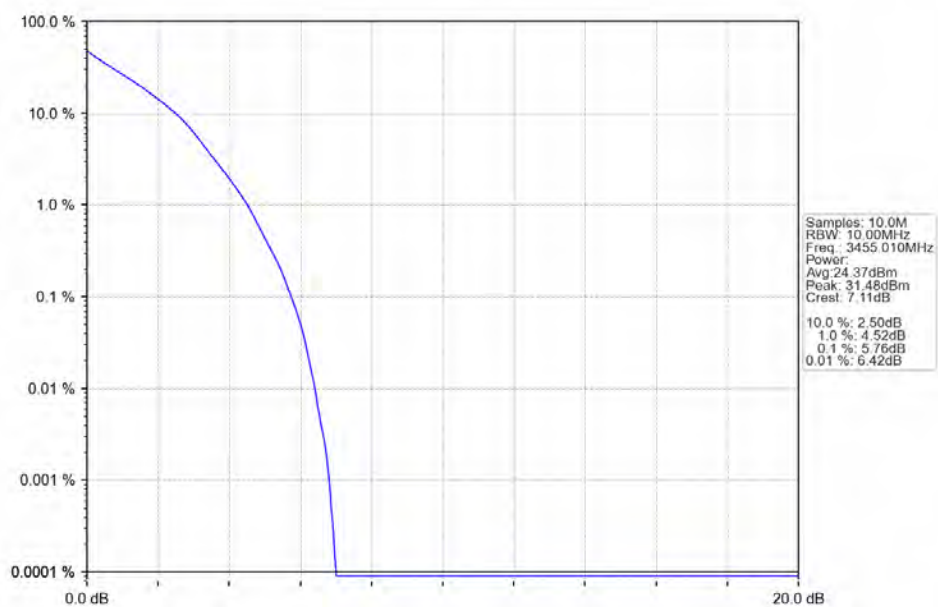
### 4.2.1 30k\_SISO\_10MHz\_NTNV



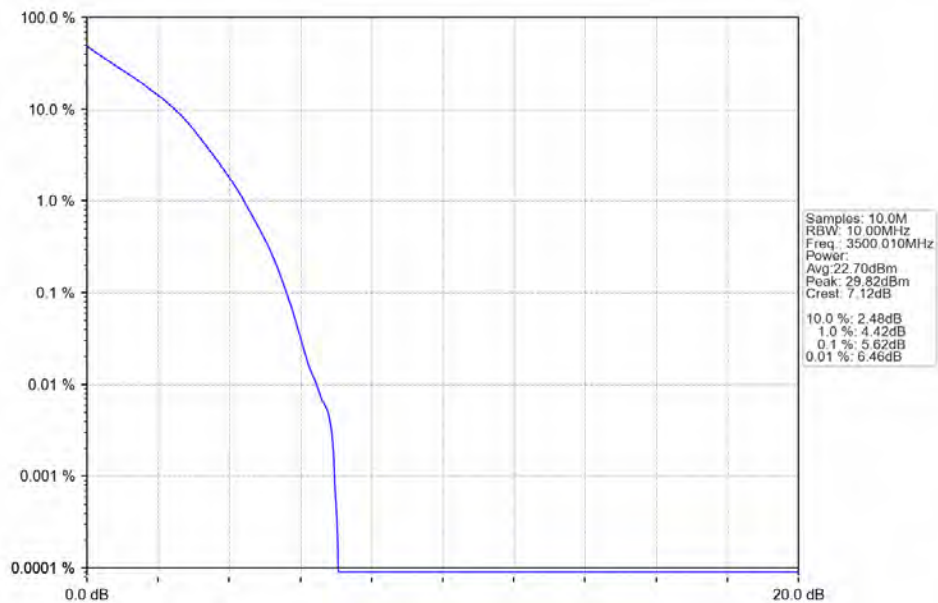
n78e\_30kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM\_PI/2\_BPSK\_3544.98MHz\_Outer\_Full\_Ant1



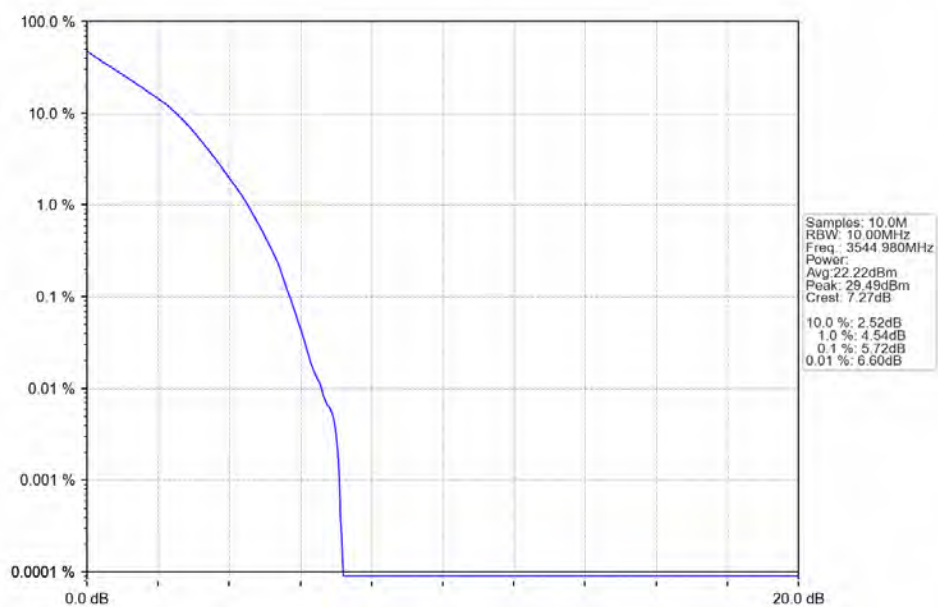
n78e\_30kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM\_QPSK\_3455.01MHz\_Outer\_Full\_Ant1



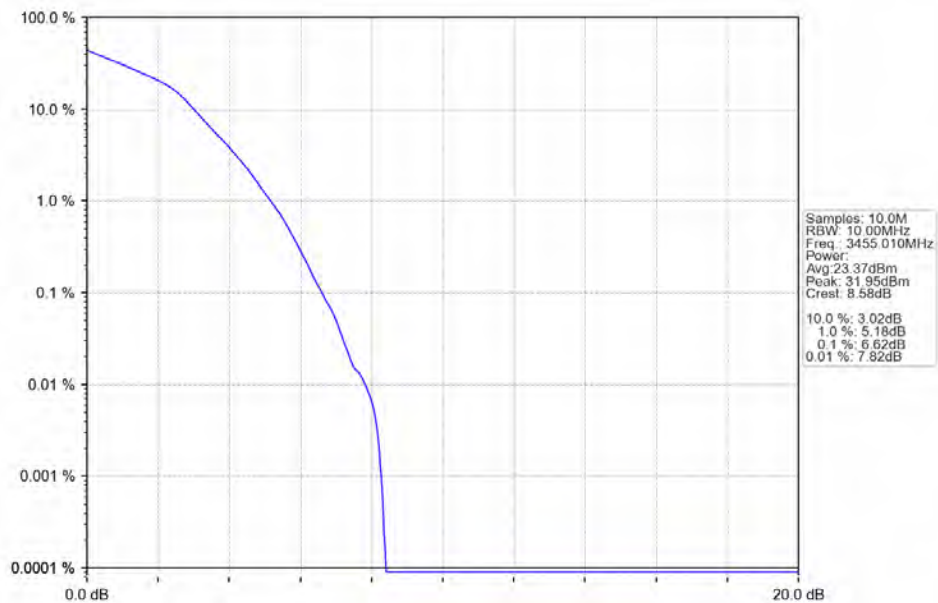
n78e\_30kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM\_QPSK\_3500.01MHz\_Outer\_Full\_Ant1



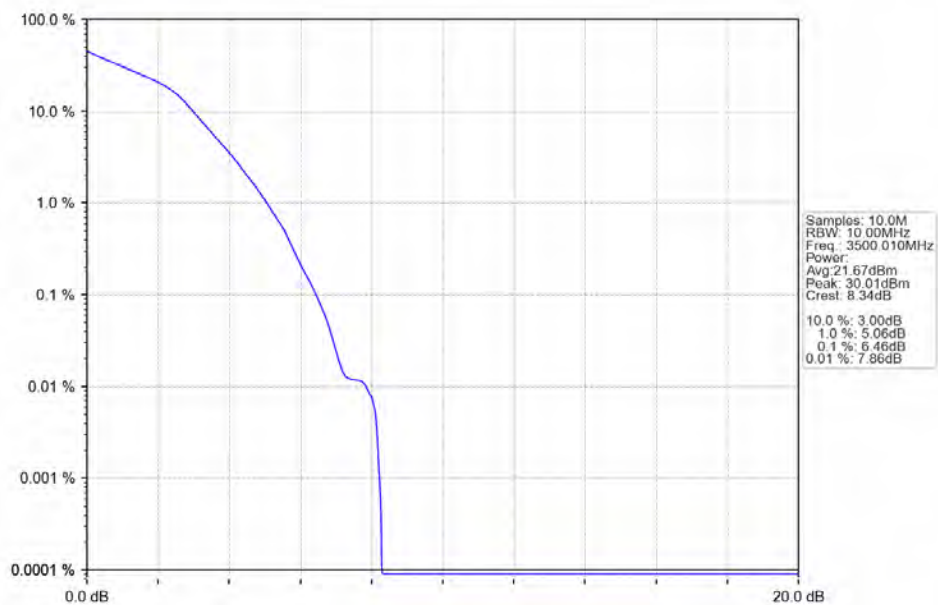
n78e\_30kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM\_QPSK\_3544.98MHz\_Outer\_Full\_Ant1



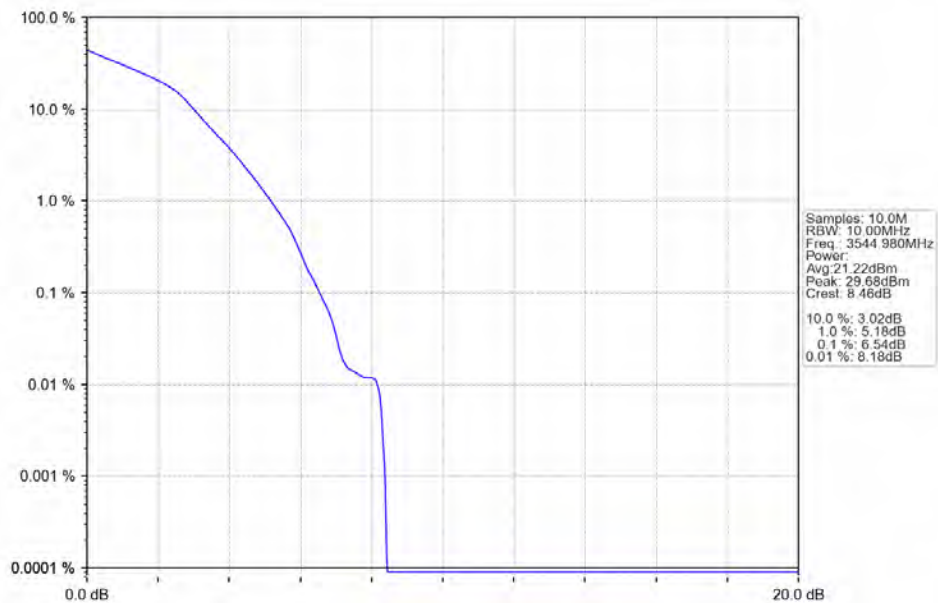
n78e 30kHz SISO NTN 10MHz DFT-s-OFDM 16 QAM 3455.01MHz Outer Full Ant1



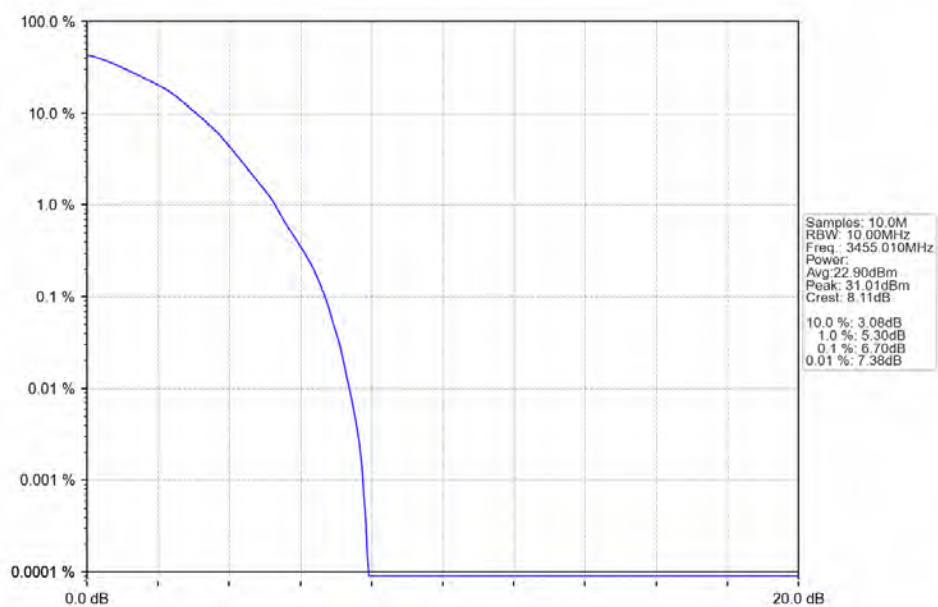
n78e 30kHz SISO NTN 10MHz DFT-s-OFDM 16 QAM 3500.01MHz Outer Full Ant1



n78e 30kHz SISO NTN 10MHz DFT-s-OFDM 16 QAM 3544.98MHz Outer Full Ant1

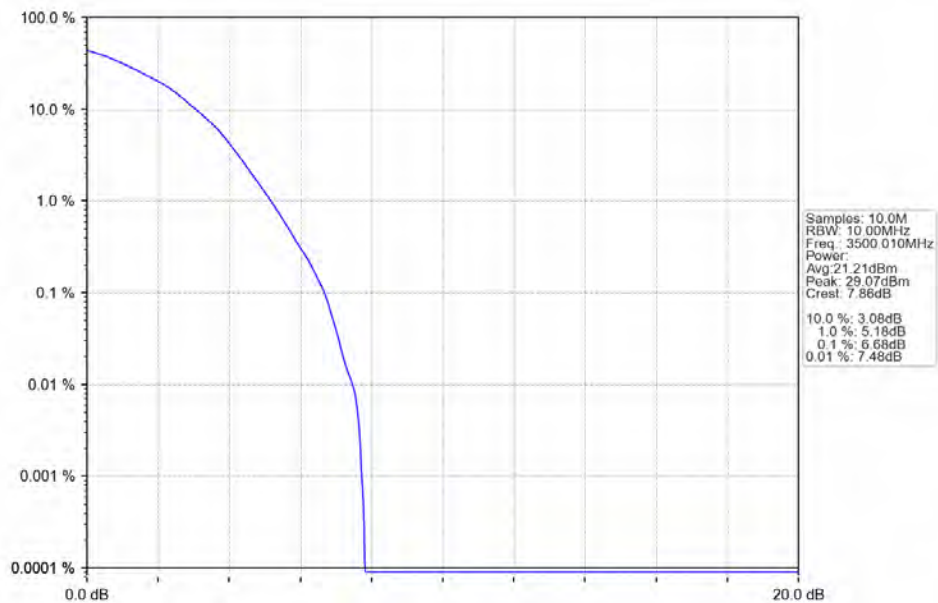


n78e 30kHz SISO NTN 10MHz DFT-s-OFDM 64 QAM 3455.01MHz Outer Full Ant1

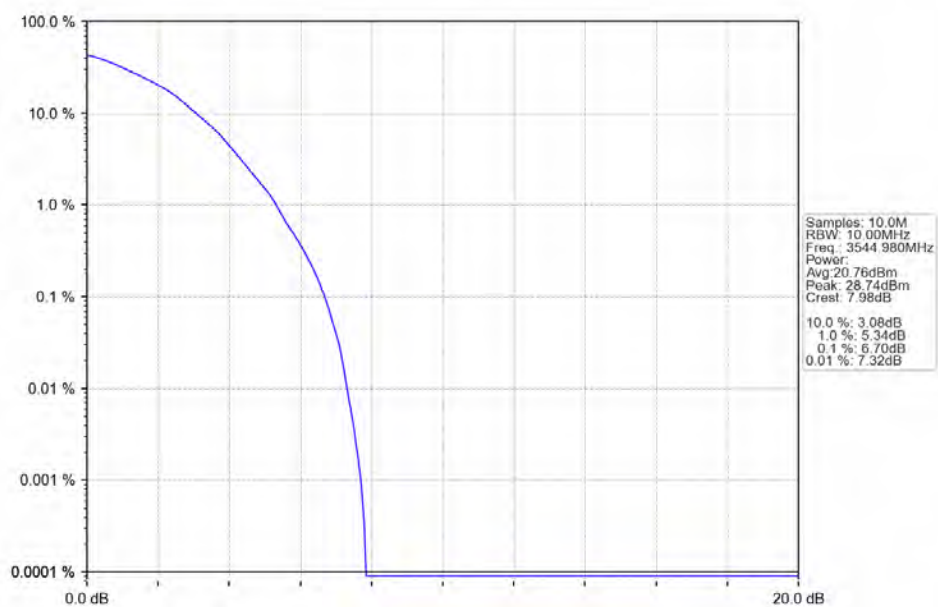




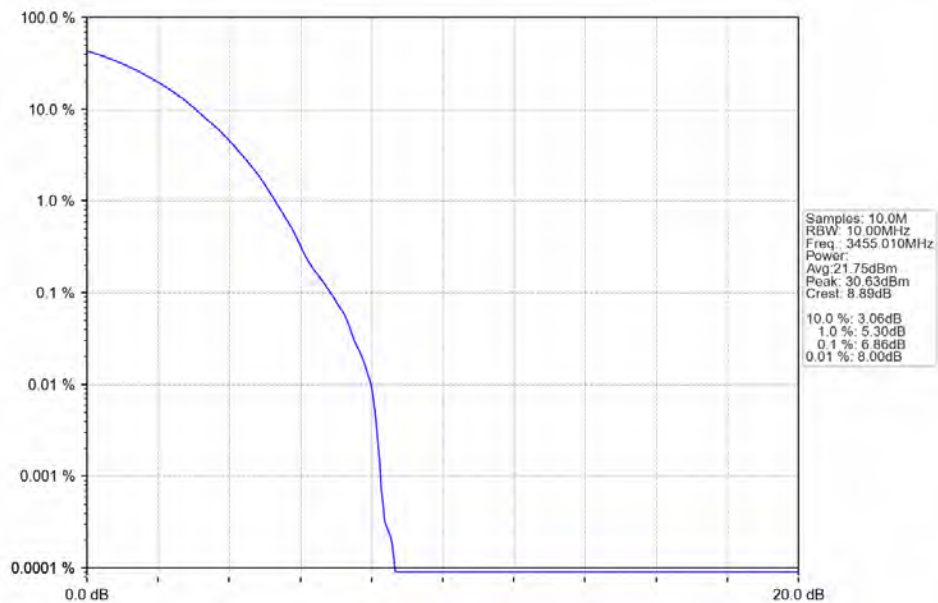
n78e 30kHz SISO NTN 10MHz DFT-s-OFDM 64 QAM 3500.01MHz Outer Full Ant1



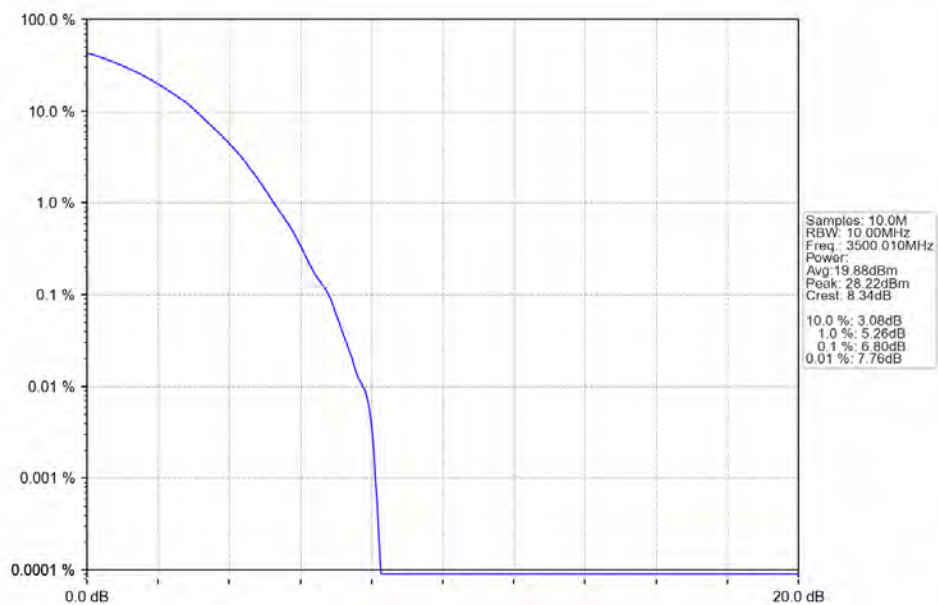
n78e 30kHz SISO NTN 10MHz DFT-s-OFDM 64 QAM 3544.98MHz Outer Full Ant1



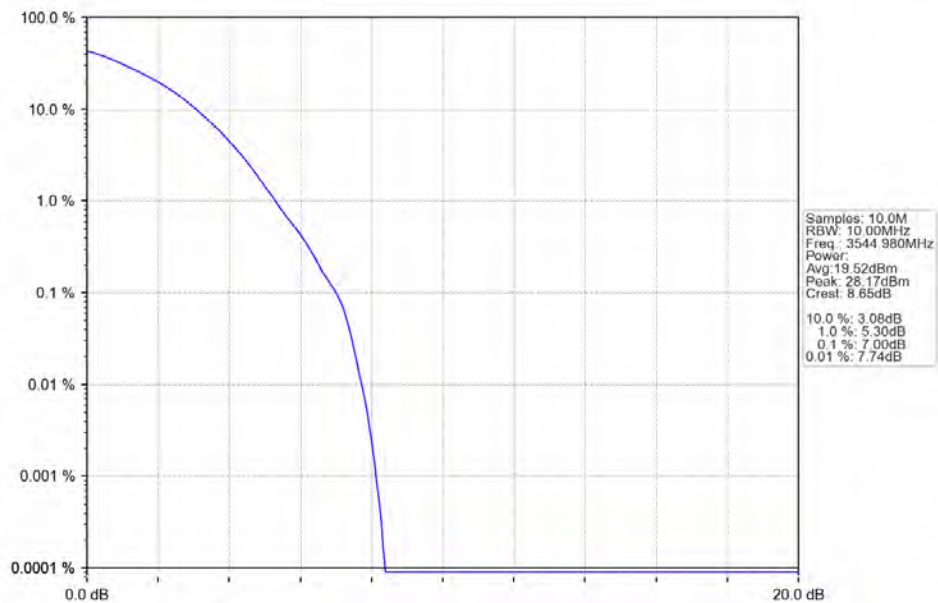
n78e\_30kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM\_256\_QAM\_3455.01MHz\_Outer\_Full\_Ant1



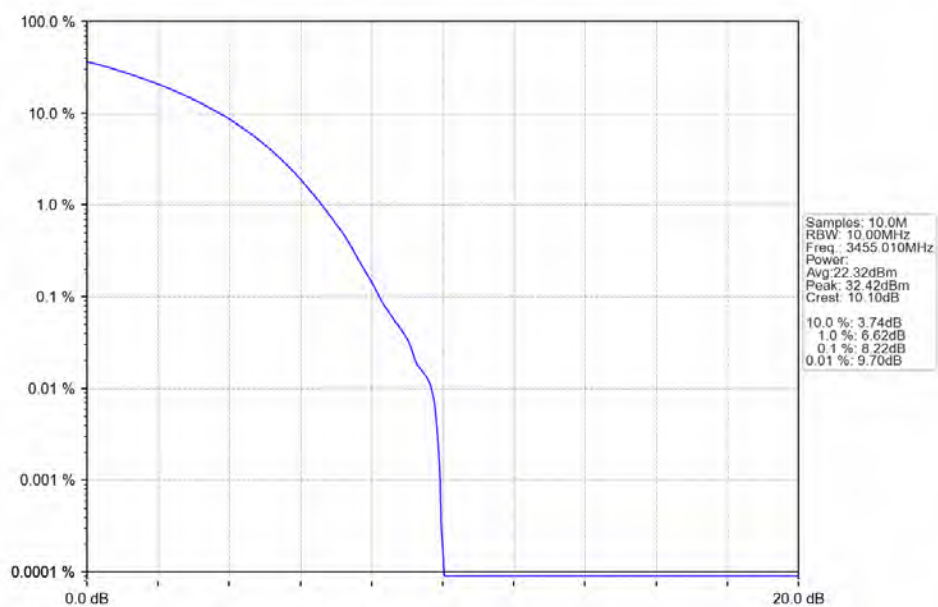
n78e\_30kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM\_256\_QAM\_3500.01MHz\_Outer\_Full\_Ant1



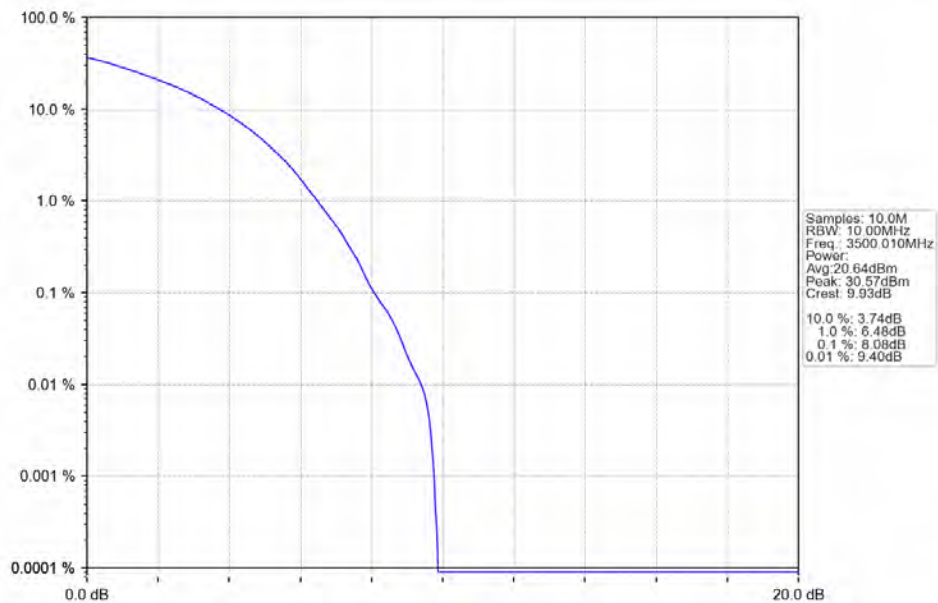
n78e\_30kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM\_256\_QAM\_3544.98MHz\_Outer\_Full\_Ant1



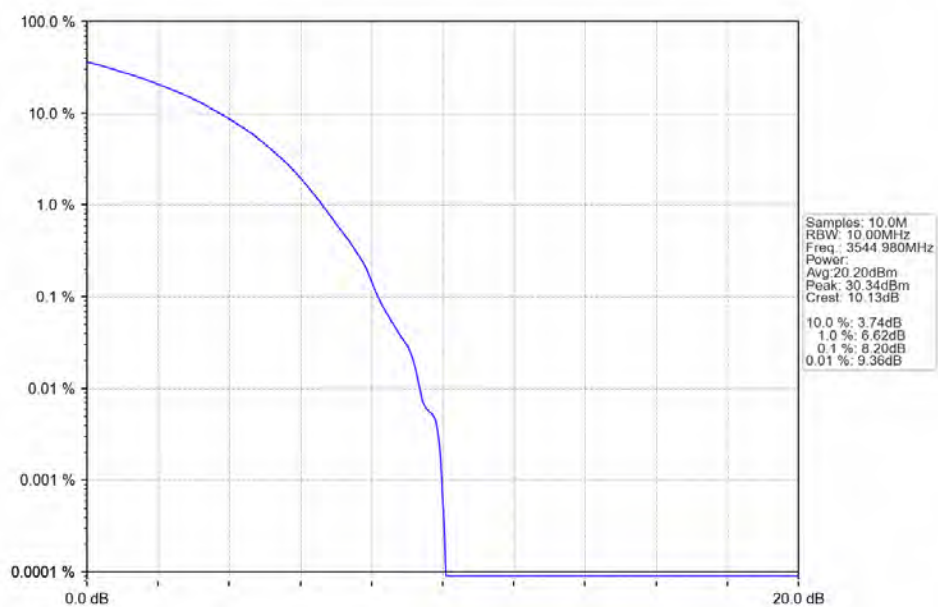
n78e\_30kHz\_SISO\_NTNV\_10MHz\_CP-OFDM\_QPSK\_3455.01MHz\_Outer\_Full\_Ant1



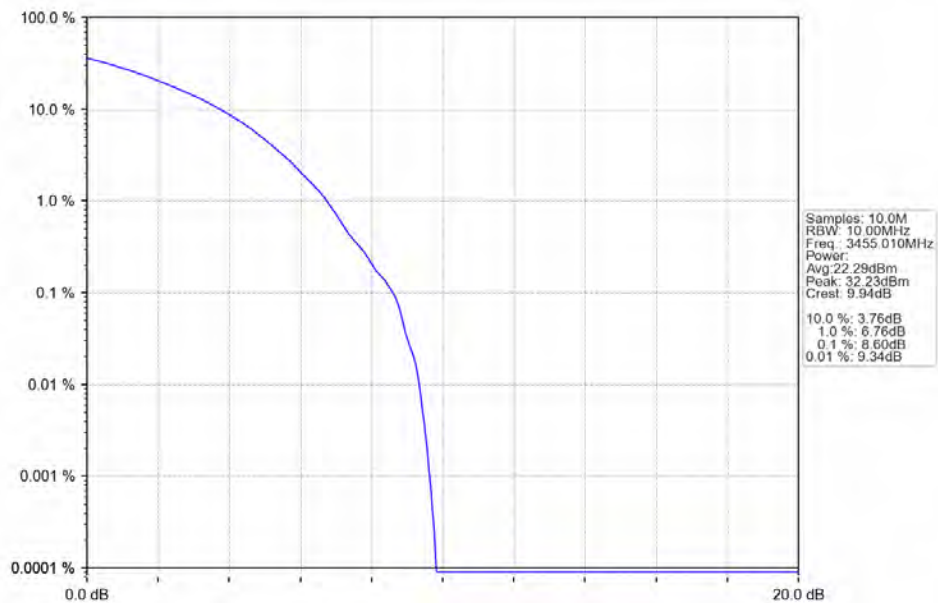
n78e\_30kHz\_SISO\_NTNV\_10MHz\_CP-OFDM\_QPSK\_3500.01MHz\_Outer\_Full\_Ant1



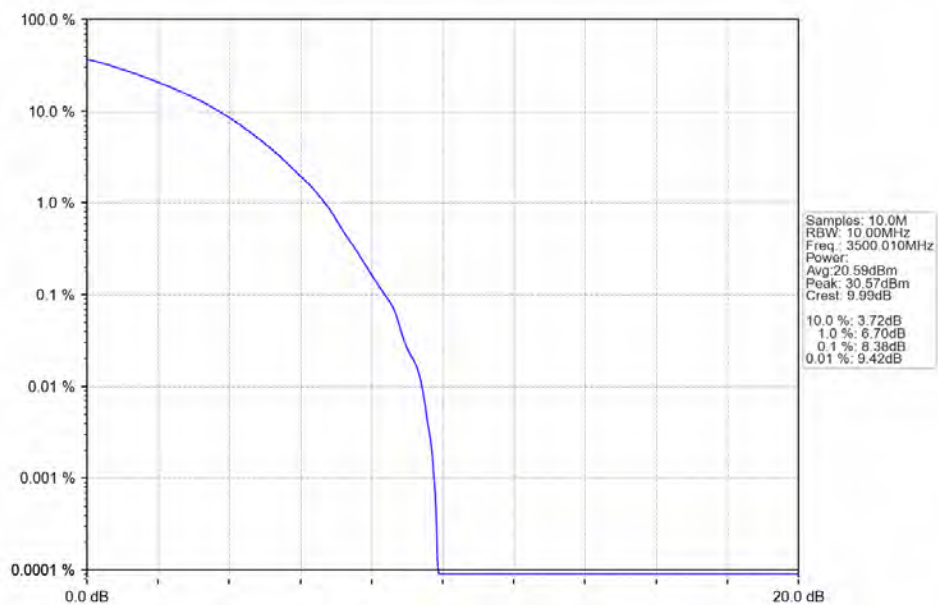
n78e\_30kHz\_SISO\_NTNV\_10MHz\_CP-OFDM\_QPSK\_3544.98MHz\_Outer\_Full\_Ant1



n78e\_30kHz\_SISO\_NTNV\_10MHz\_CP-OFDM\_16\_QAM\_3455.01MHz\_Outer\_Full\_Ant1

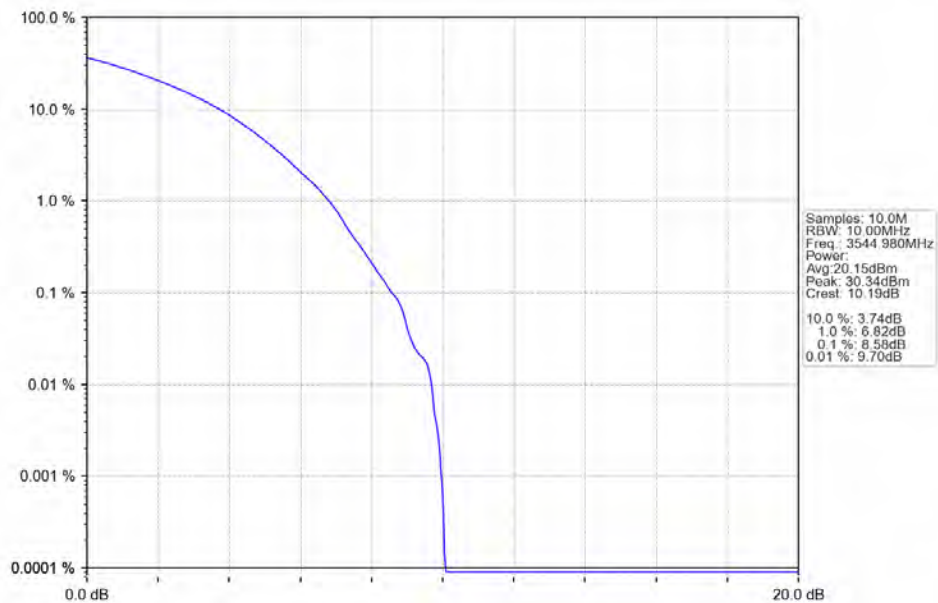


n78e\_30kHz\_SISO\_NTNV\_10MHz\_CP-OFDM\_16\_QAM\_3500.01MHz\_Outer\_Full\_Ant1

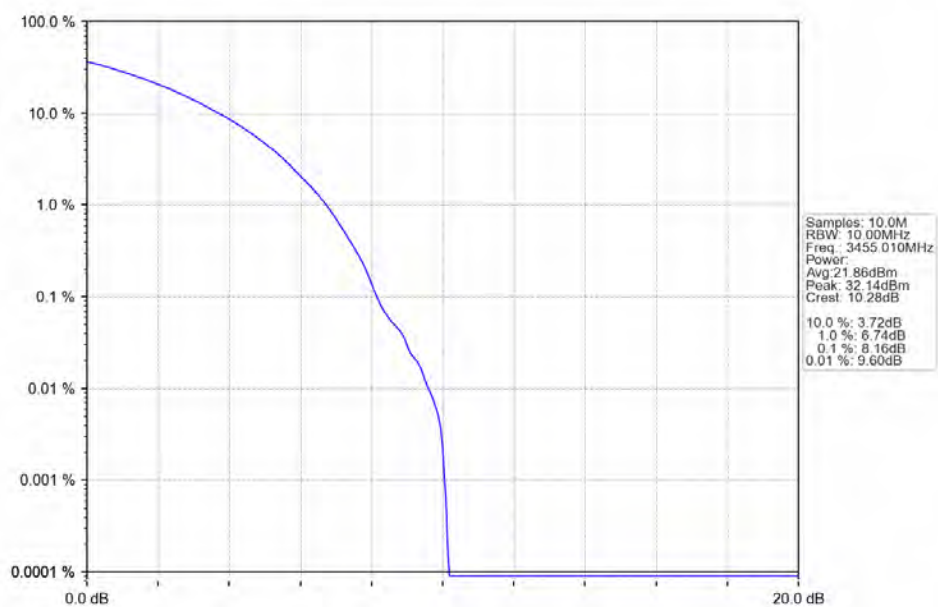




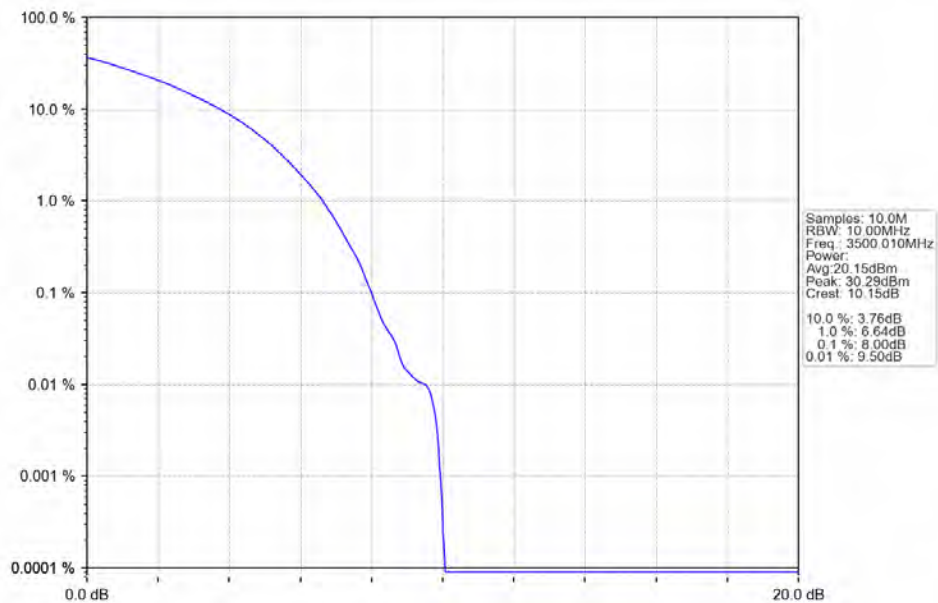
n78e\_30kHz\_SISO\_NTNV\_10MHz\_CP-OFDM 16 QAM 3544.98MHz\_Outer\_Full\_Ant1



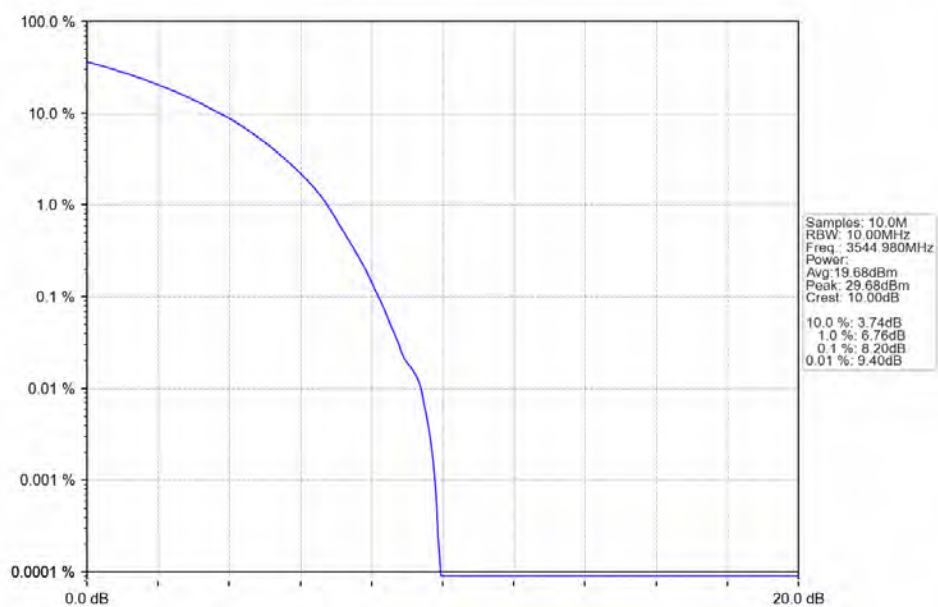
n78e\_30kHz\_SISO\_NTNV\_10MHz\_CP-OFDM 64 QAM 3455.01MHz\_Outer\_Full\_Ant1



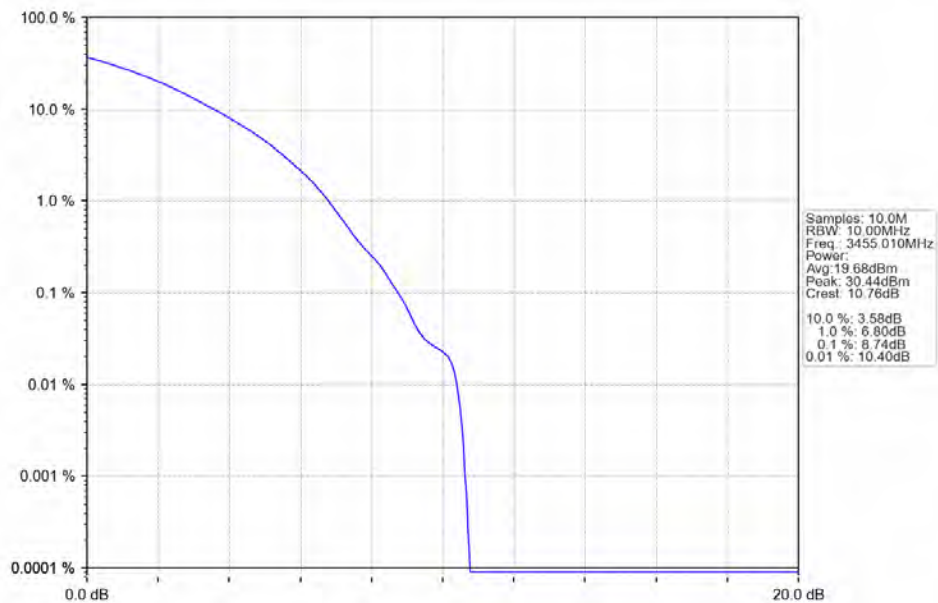
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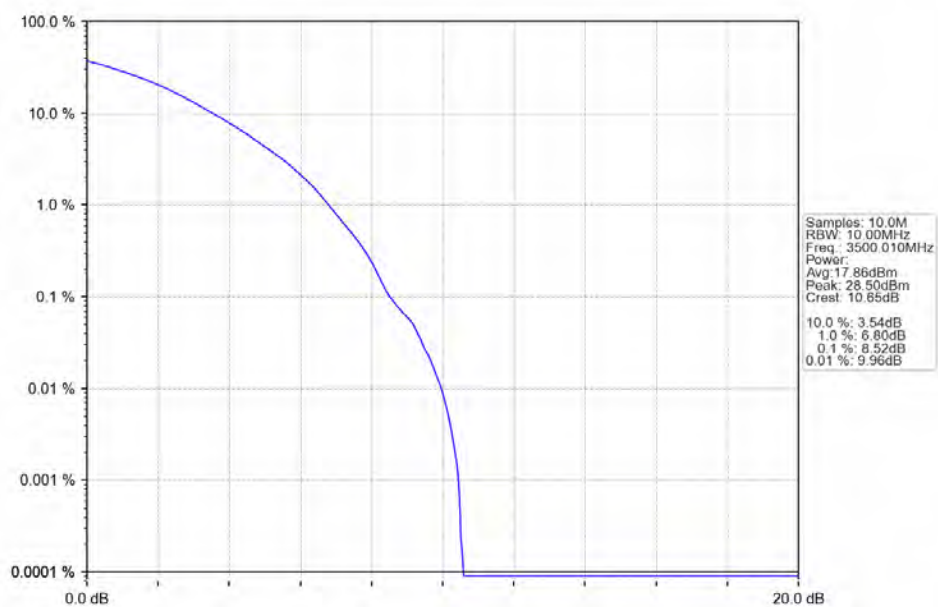
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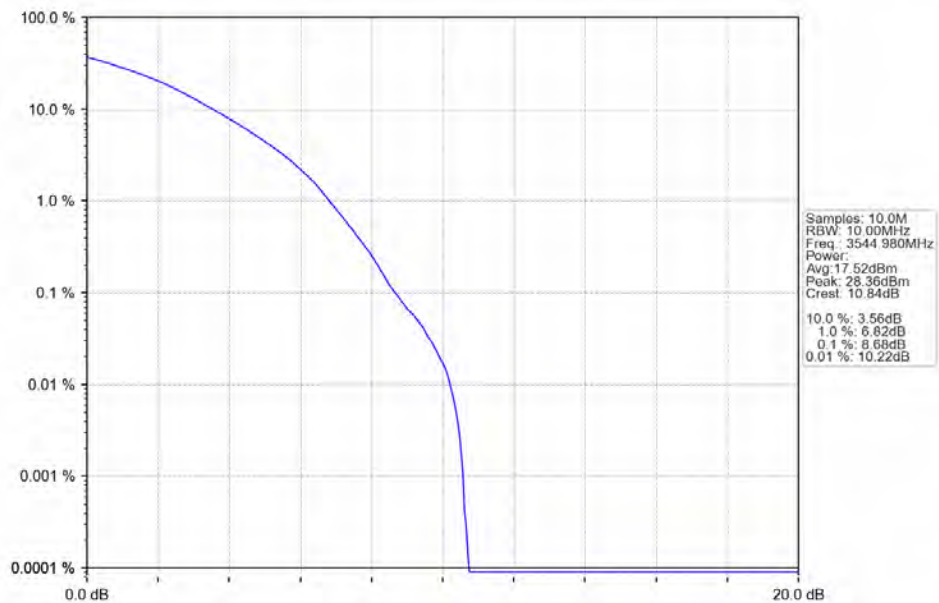
n78e\_30kHz\_SISO\_NTNV\_10MHz\_CP-OFDM\_256\_QAM\_3455.01MHz\_Outer\_Full\_Ant1



n78e\_30kHz\_SISO\_NTNV\_10MHz\_CP-OFDM\_256\_QAM\_3500.01MHz\_Outer\_Full\_Ant1

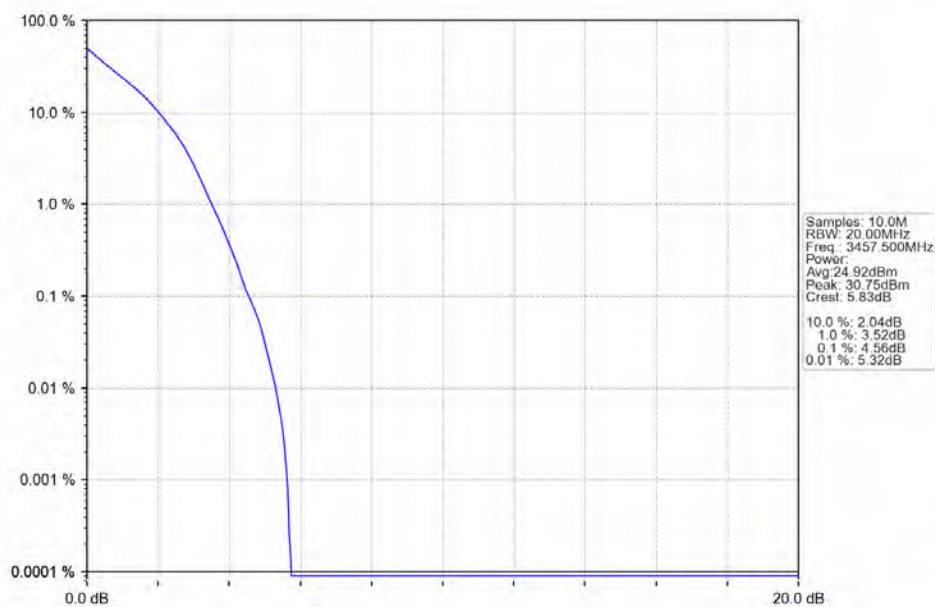


n78e\_30kHz\_SISO\_NTNV\_10MHz\_CP-OFDM\_256\_QAM\_3544.98MHz\_Outer\_Full\_Ant1

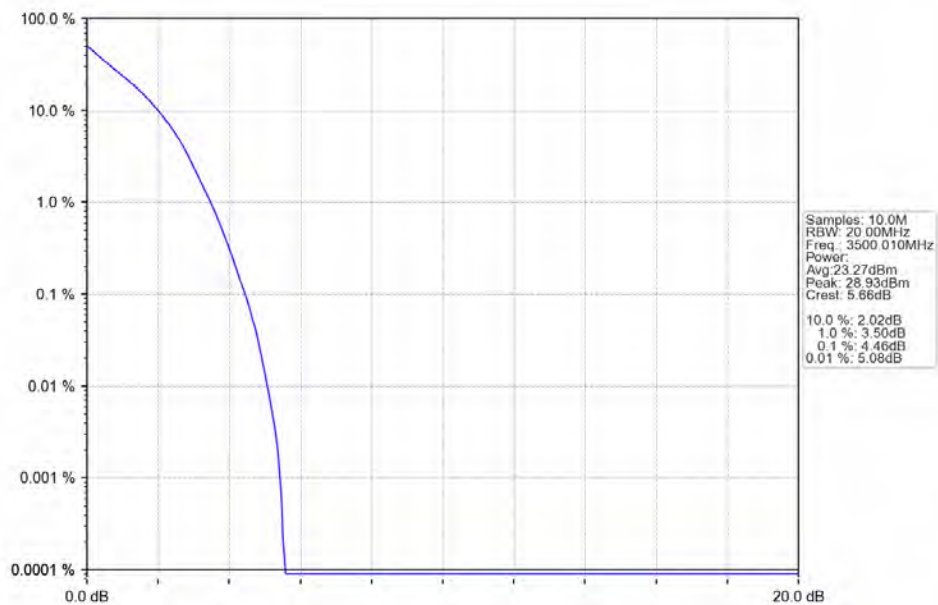


## 4.2.2 30k\_SISO\_15MHz\_NTNV

n78e\_30kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM PI/2 BPSK\_3457.5MHz\_Outer\_Full\_Ant1

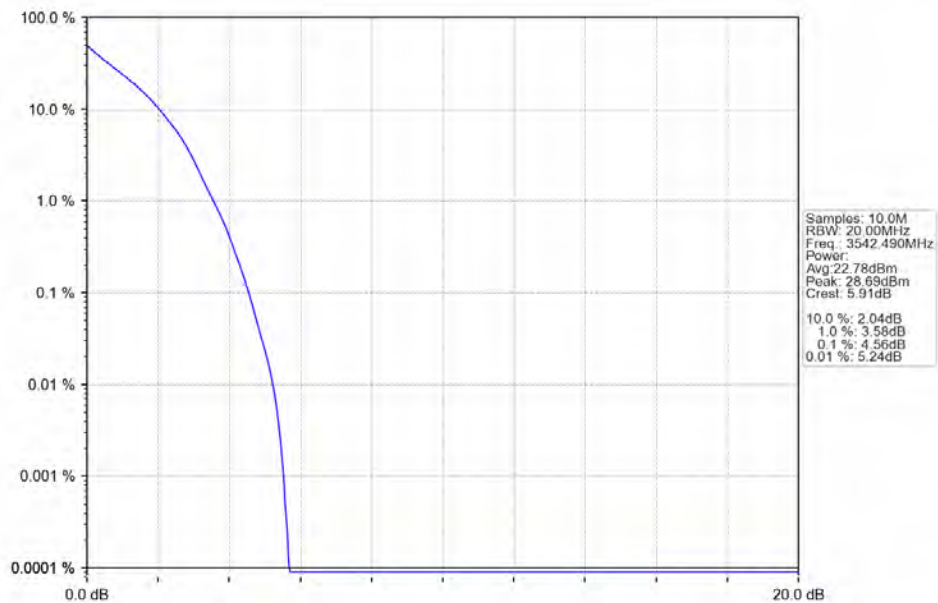


n78e\_30kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM PI/2 BPSK\_3500.01MHz\_Outer\_Full\_Ant1

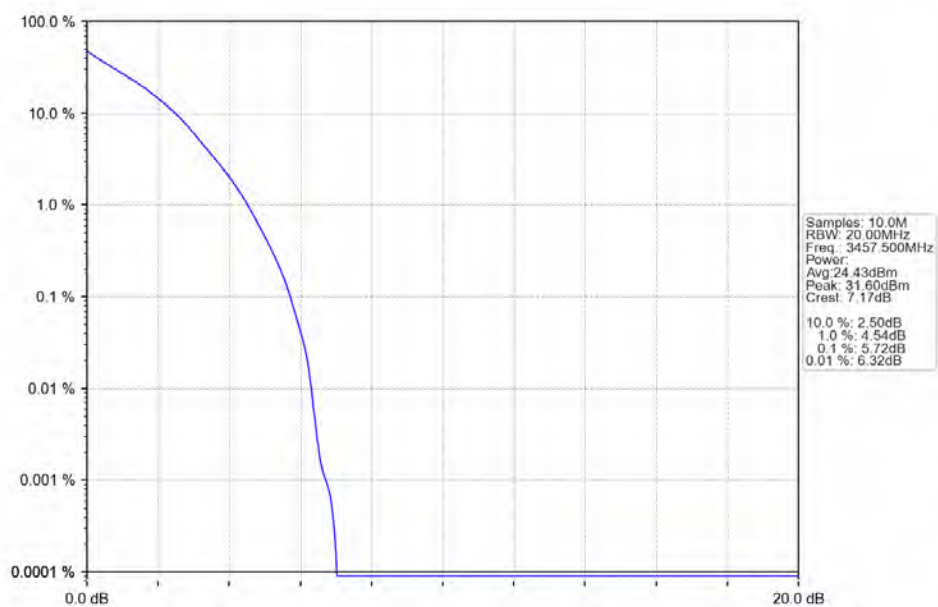




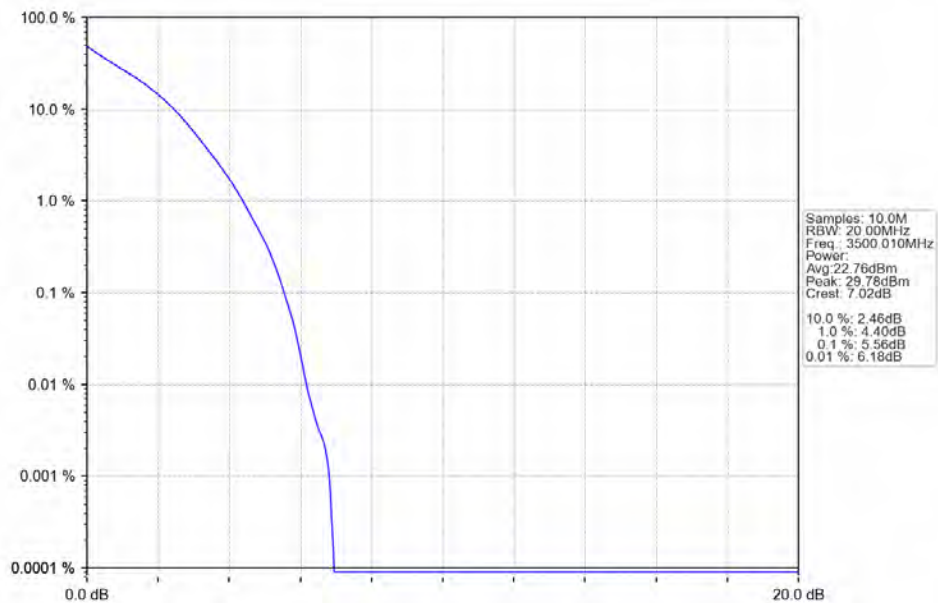
n78e\_30kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM\_PI/2\_BPSK\_3542.49MHz\_Outer\_Full\_Ant1



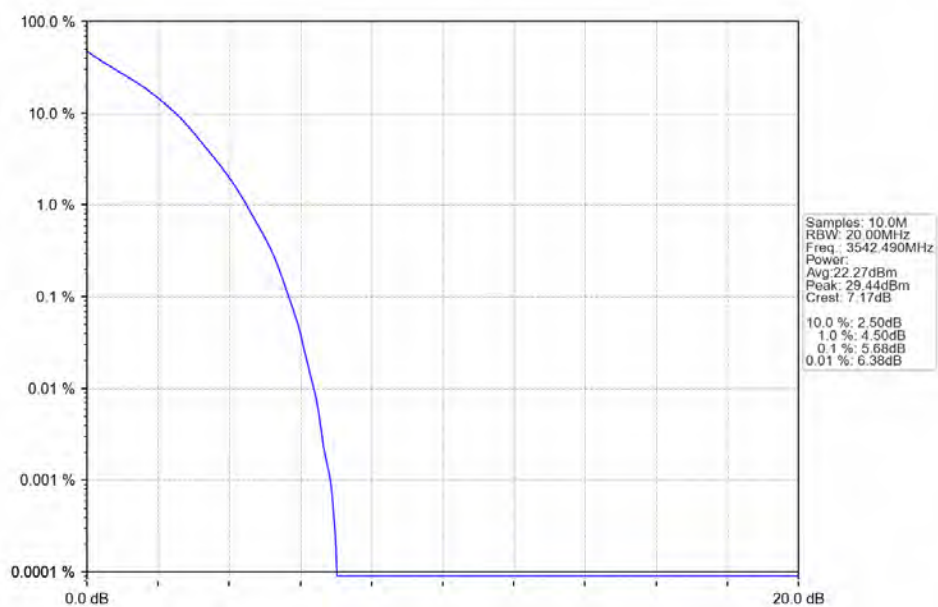
n78e\_30kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM\_QPSK\_3457.5MHz\_Outer\_Full\_Ant1



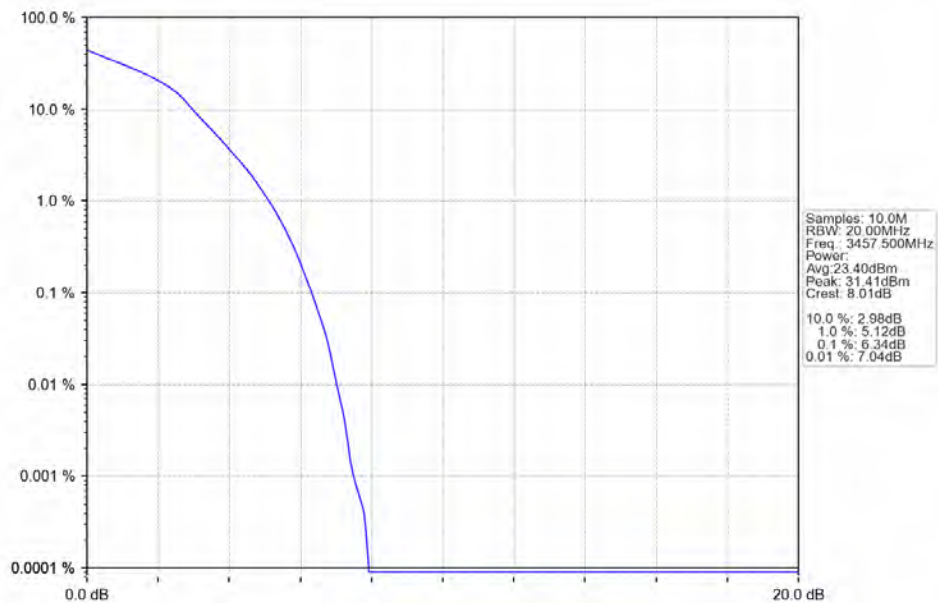
n78e\_30kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM\_QPSK\_3500.01MHz\_Outer\_Full\_Ant1



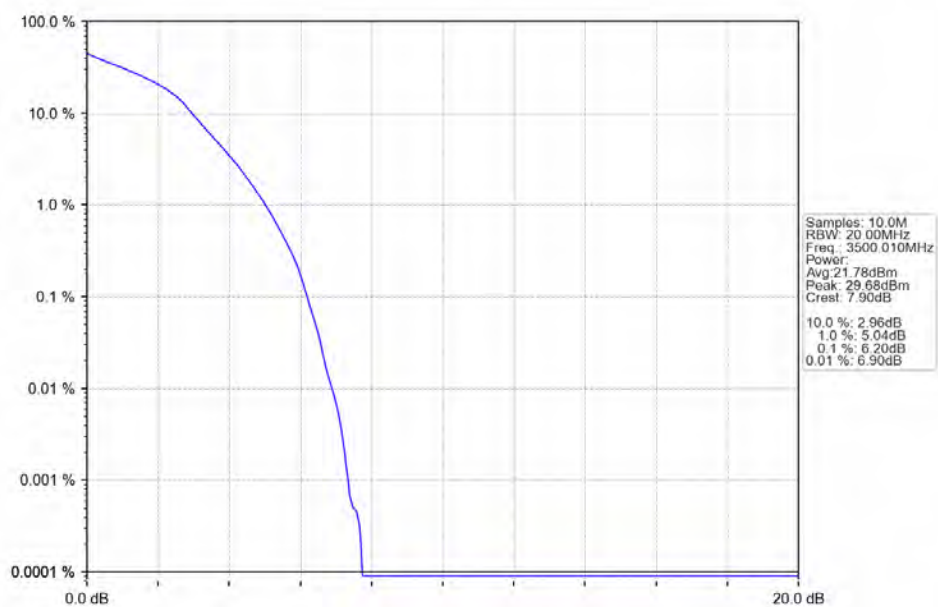
n78e\_30kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM\_QPSK\_3542.49MHz\_Outer\_Full\_Ant1



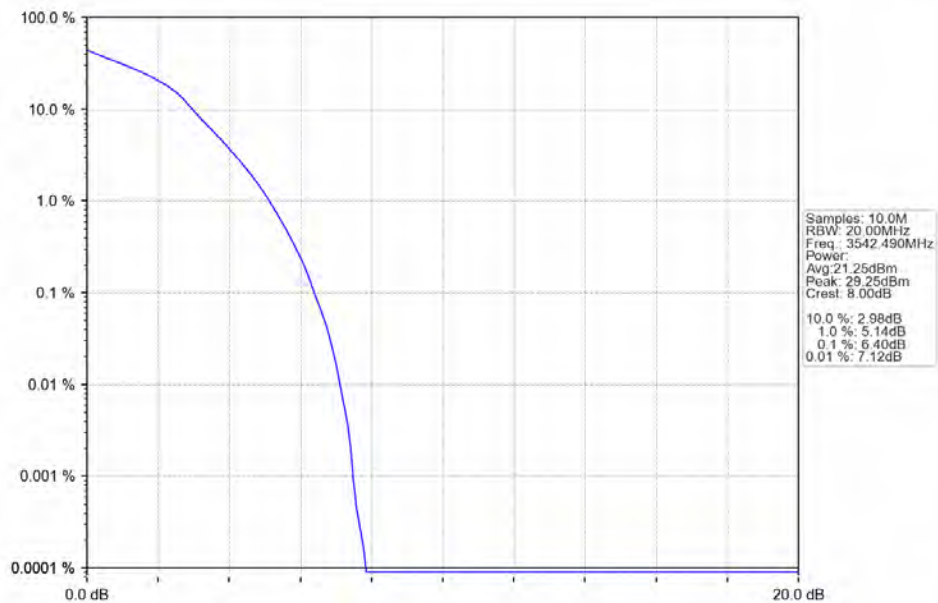
n78e\_30kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM\_16\_QAM\_3457.5MHz\_Outer\_Full\_Ant1



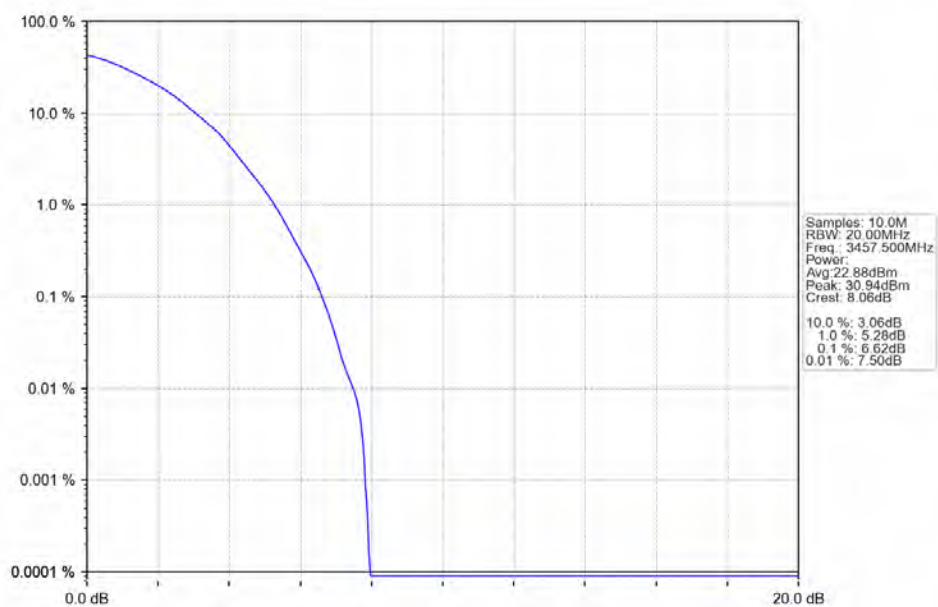
n78e\_30kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM\_16\_QAM\_3500.01MHz\_Outer\_Full\_Ant1



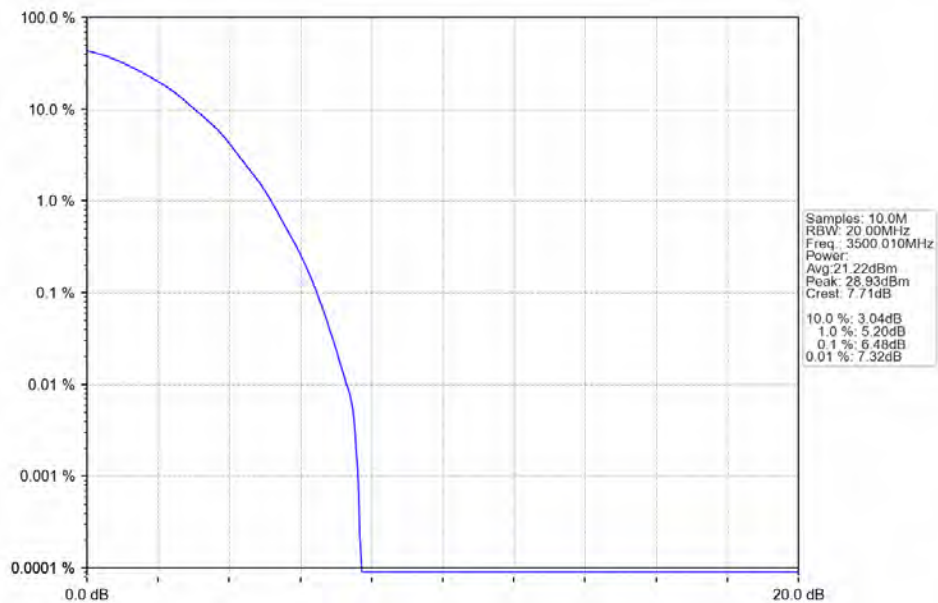
n78e\_30kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM\_16\_QAM\_3542.49MHz\_Outer\_Full\_Ant1



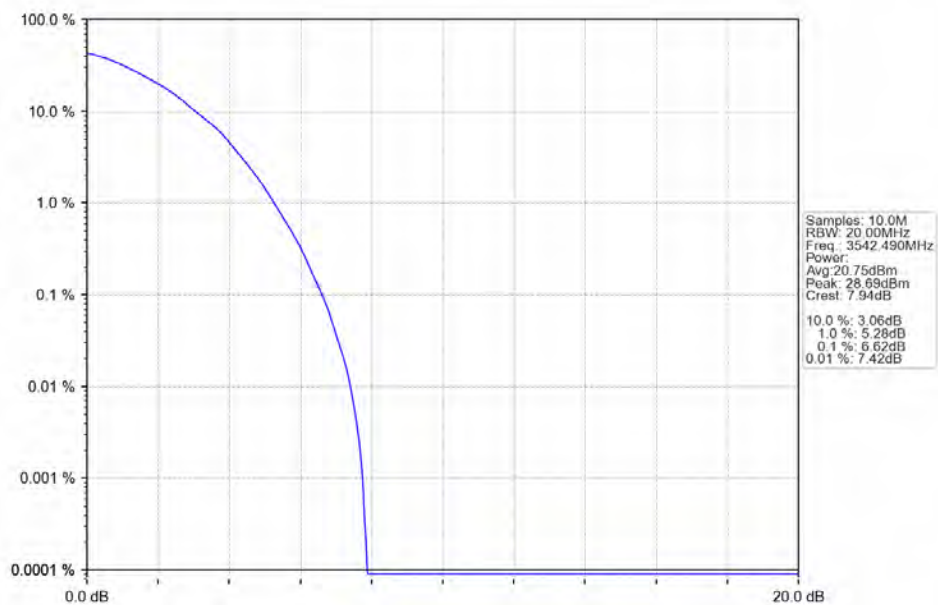
n78e\_30kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM\_64\_QAM\_3457.5MHz\_Outer\_Full\_Ant1



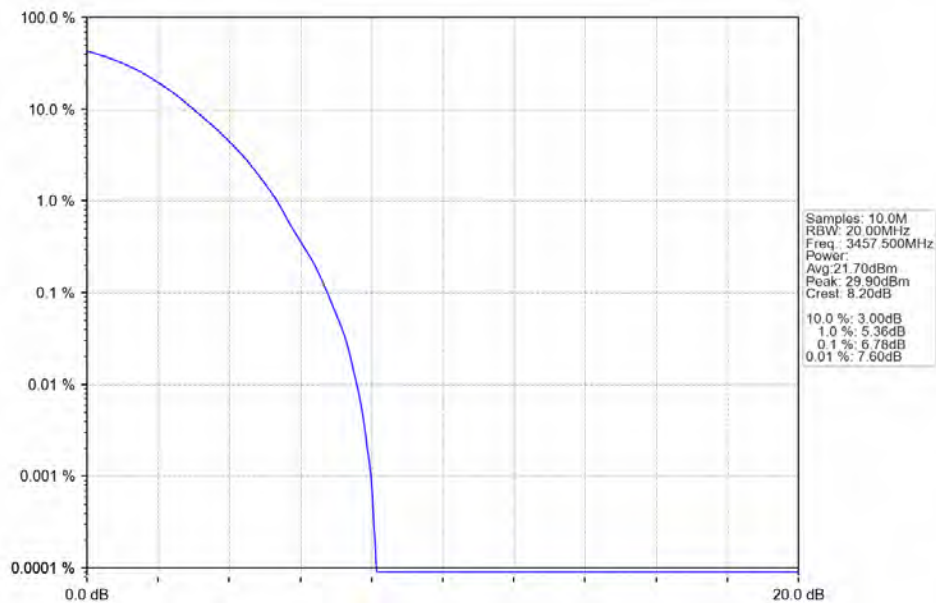
n78e 30kHz SISO NTN 15MHz DFT-s-OFDM 64 QAM 3500.01MHz Outer Full Ant1



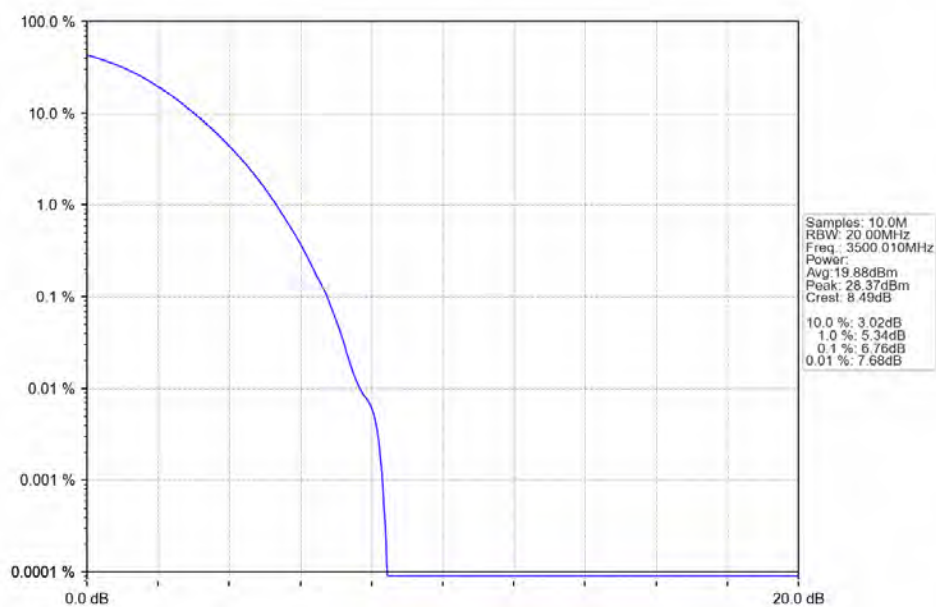
n78e 30kHz SISO NTN 15MHz DFT-s-OFDM 64 QAM 3542.49MHz Outer Full Ant1



n78e\_30kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM\_256\_QAM\_3457.5MHz\_Outer\_Full\_Ant1

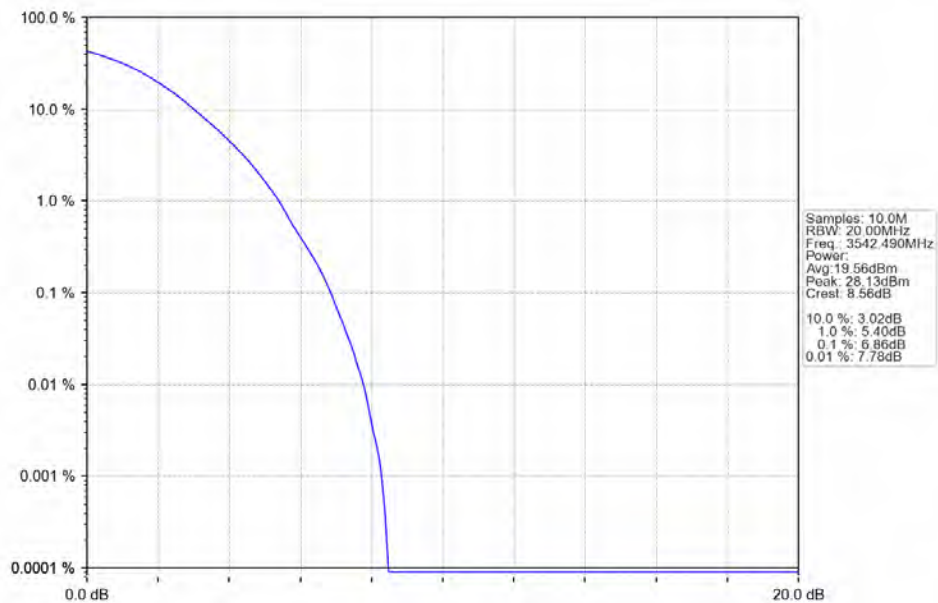


n78e\_30kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM\_256\_QAM\_3500.01MHz\_Outer\_Full\_Ant1

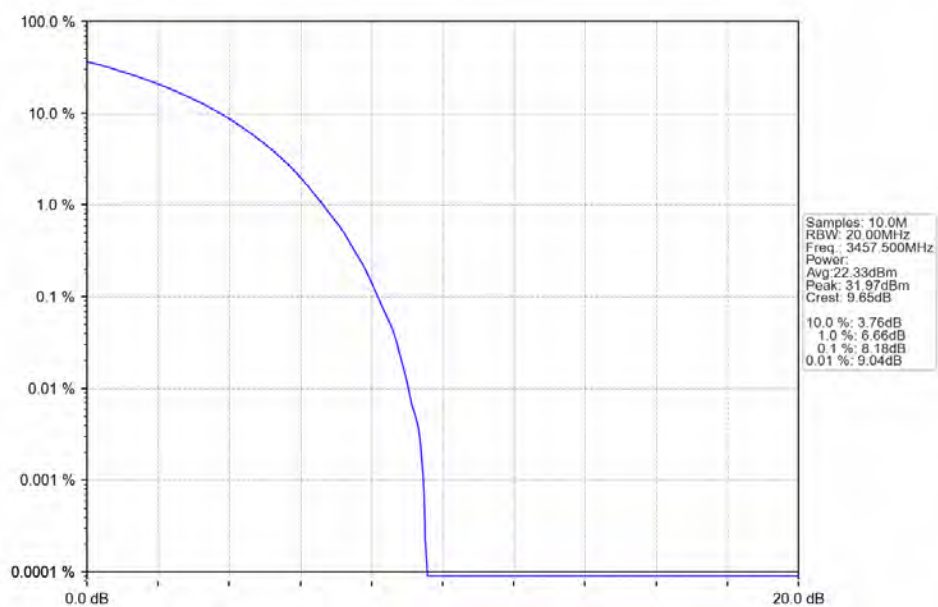




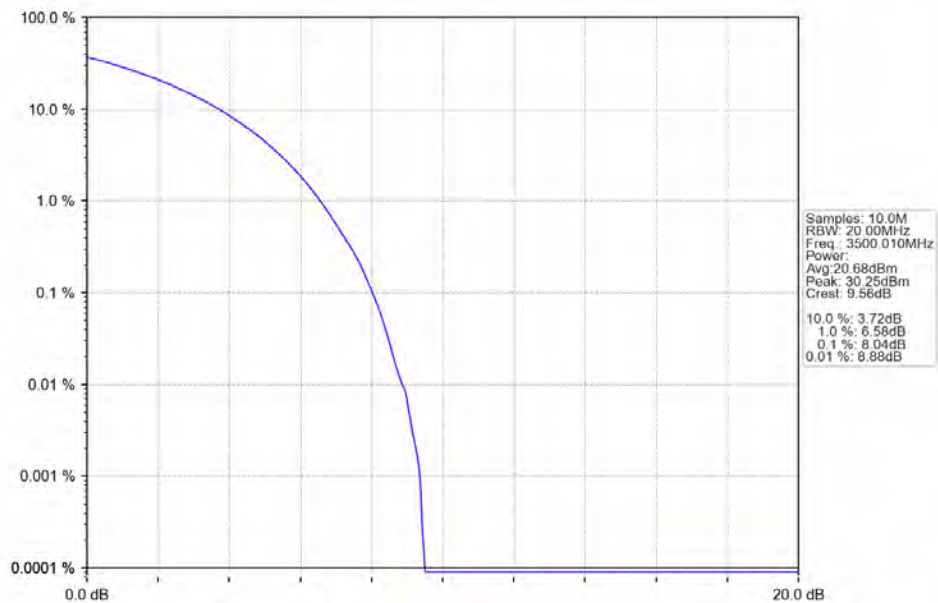
n78e\_30kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM\_256\_QAM\_3542.49MHz\_Outer\_Full\_Ant1



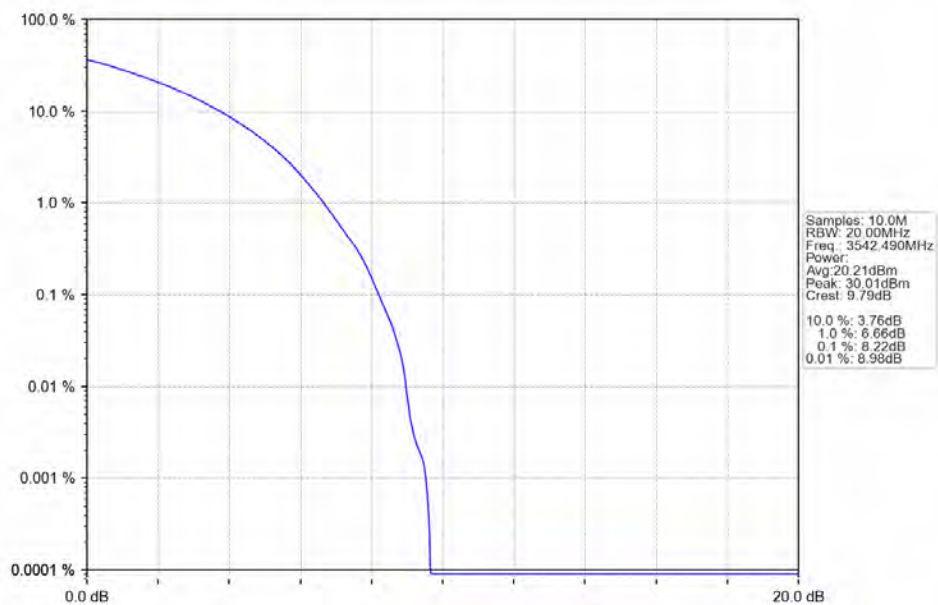
n78e\_30kHz\_SISO\_NTNV\_15MHz\_CP-OFDM\_QPSK\_3457.5MHz\_Outer\_Full\_Ant1



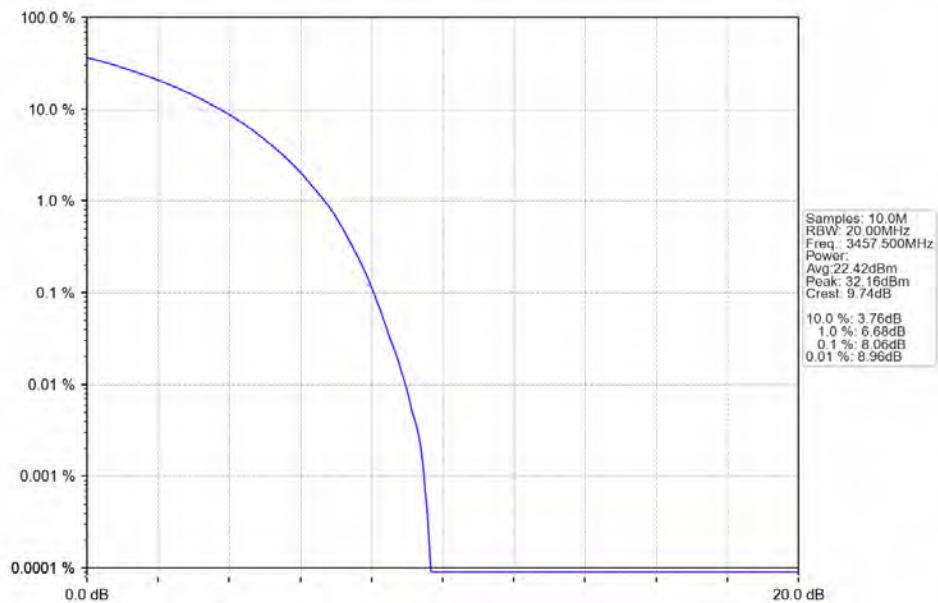
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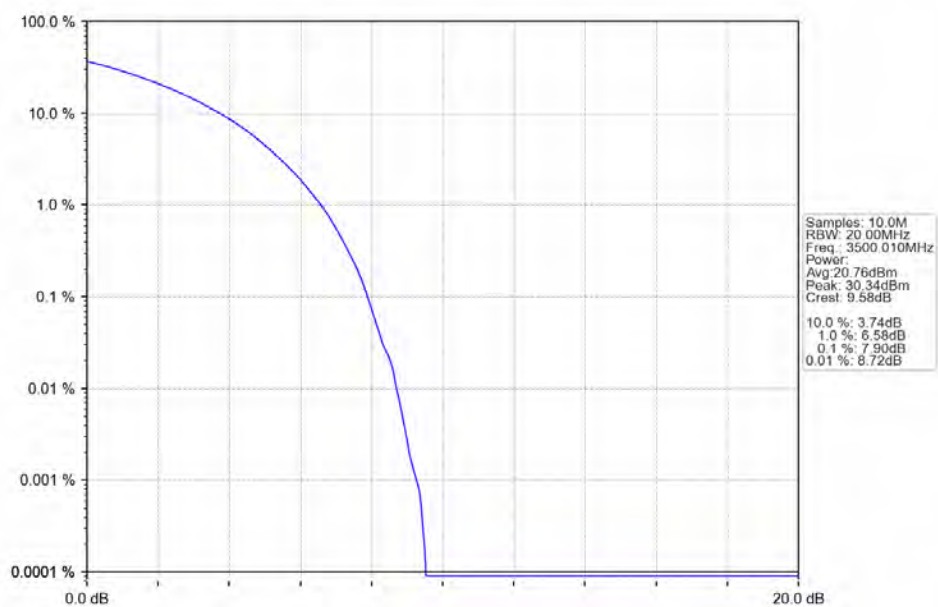
n78e\_30kHz\_SISO\_NTNV\_15MHz\_CP-OFDM\_QPSK\_3542.49MHz\_Outer\_Full\_Ant1



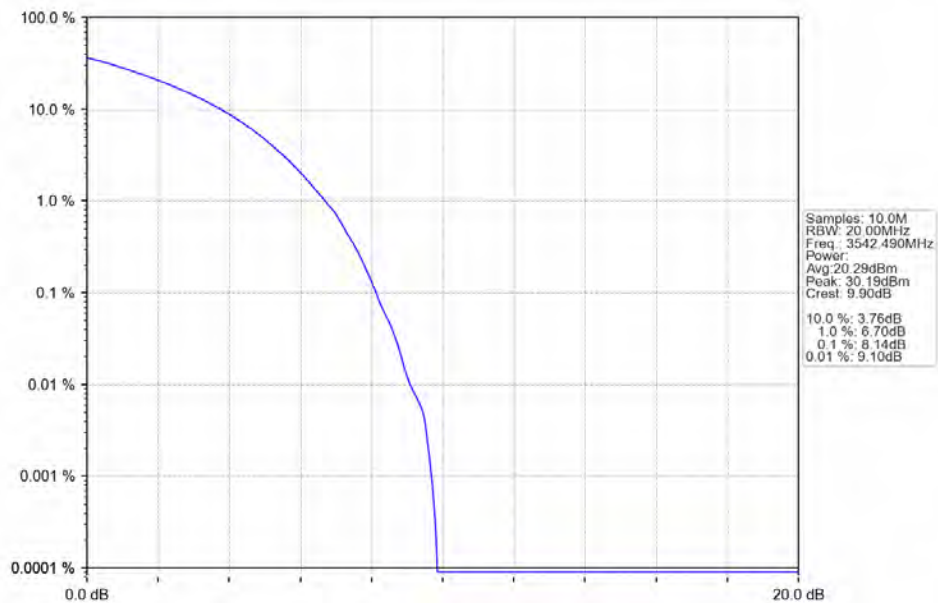
n78e\_30kHz\_SISO\_NTNV\_15MHz\_CP-OFDM\_16\_QAM\_3457.5MHz\_Outer\_Full\_Ant1



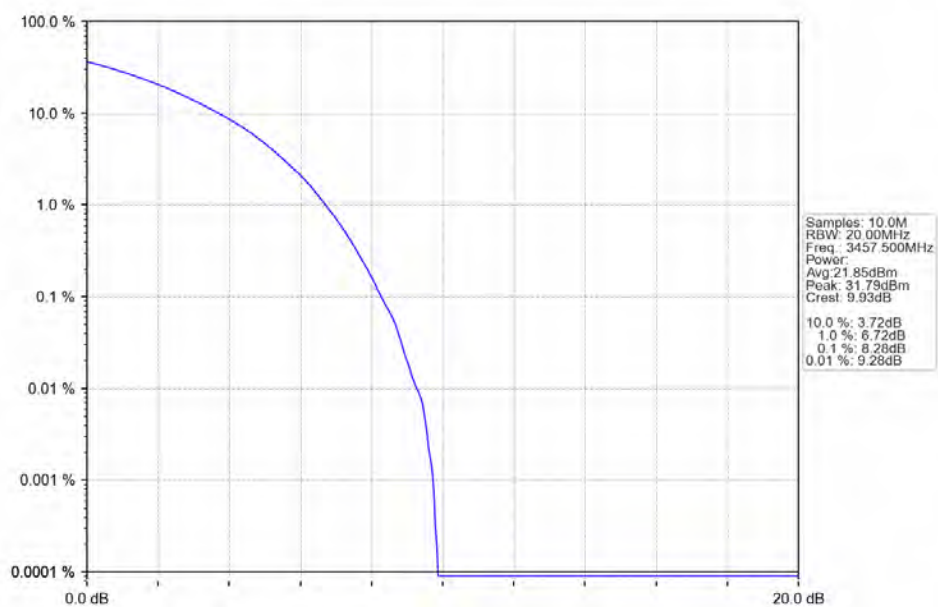
n78e\_30kHz\_SISO\_NTNV\_15MHz\_CP-OFDM\_16\_QAM\_3500.01MHz\_Outer\_Full\_Ant1



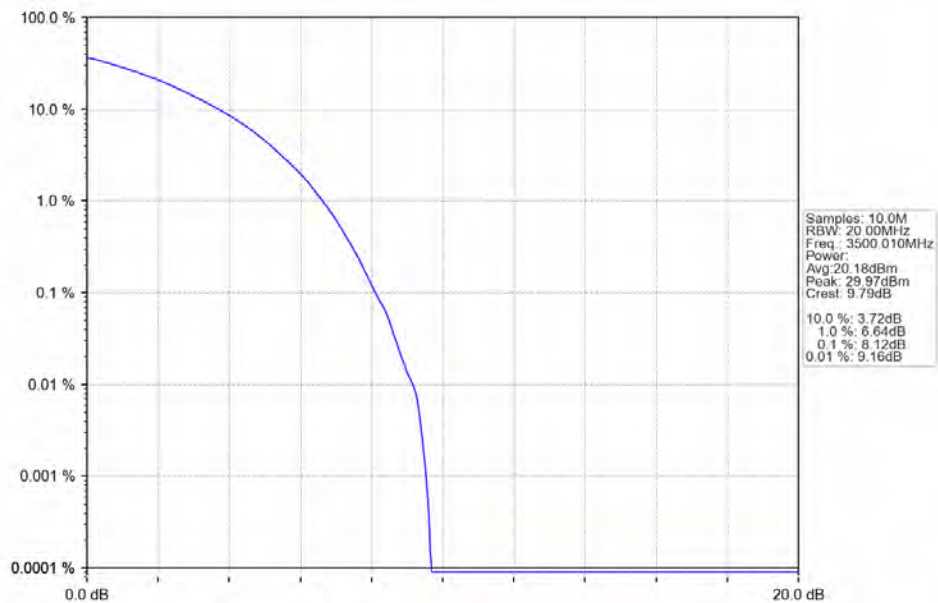
n78e\_30kHz\_SISO\_NTNV\_15MHz\_CP-OFDM 16 QAM 3542.49MHz\_Outer\_Full\_Ant1



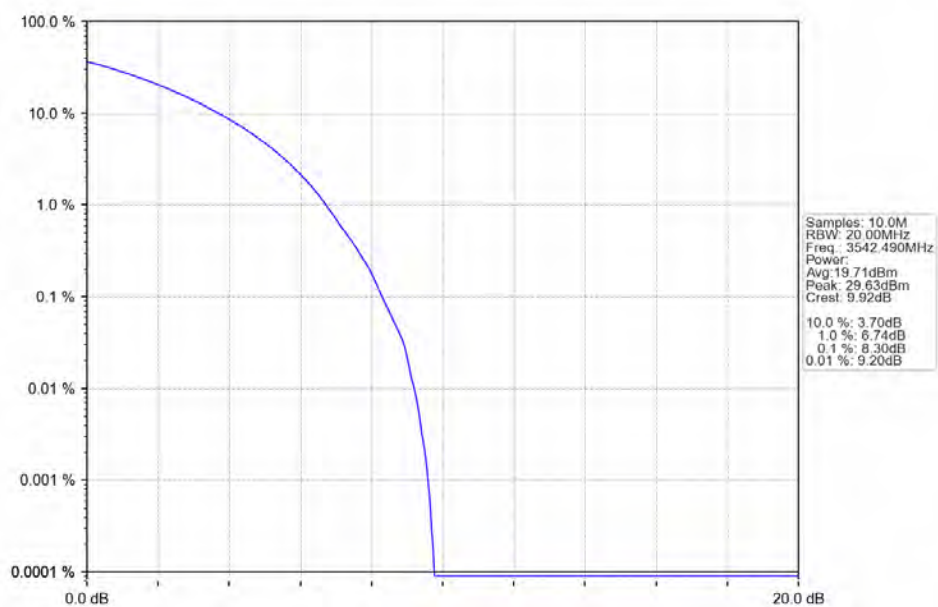
n78e\_30kHz\_SISO\_NTNV\_15MHz\_CP-OFDM 64 QAM 3457.5MHz\_Outer\_Full\_Ant1



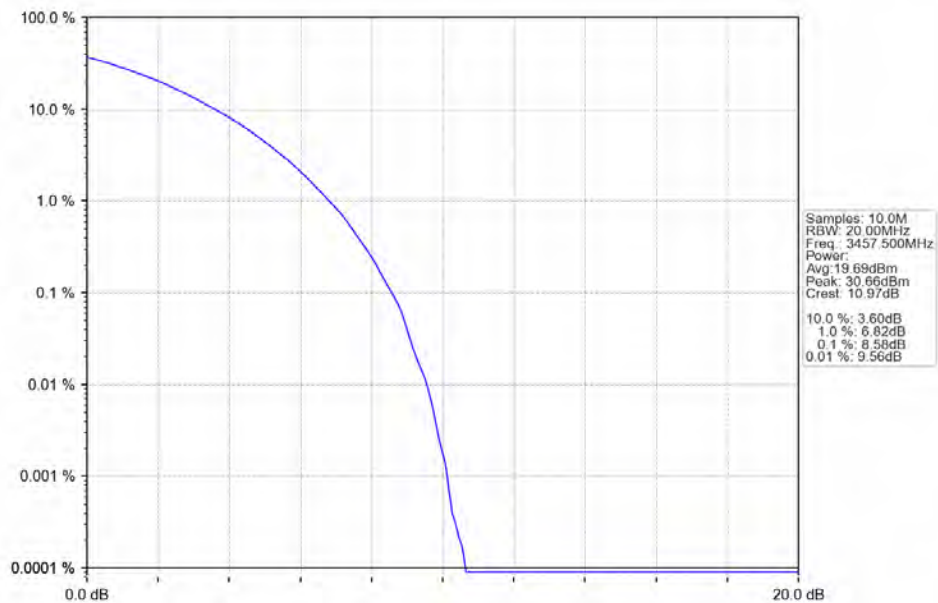
n78e\_30kHz\_SISO\_NTNV\_15MHz\_CP-OFDM\_64\_QAM\_3500.01MHz\_Outer\_Full\_Ant1



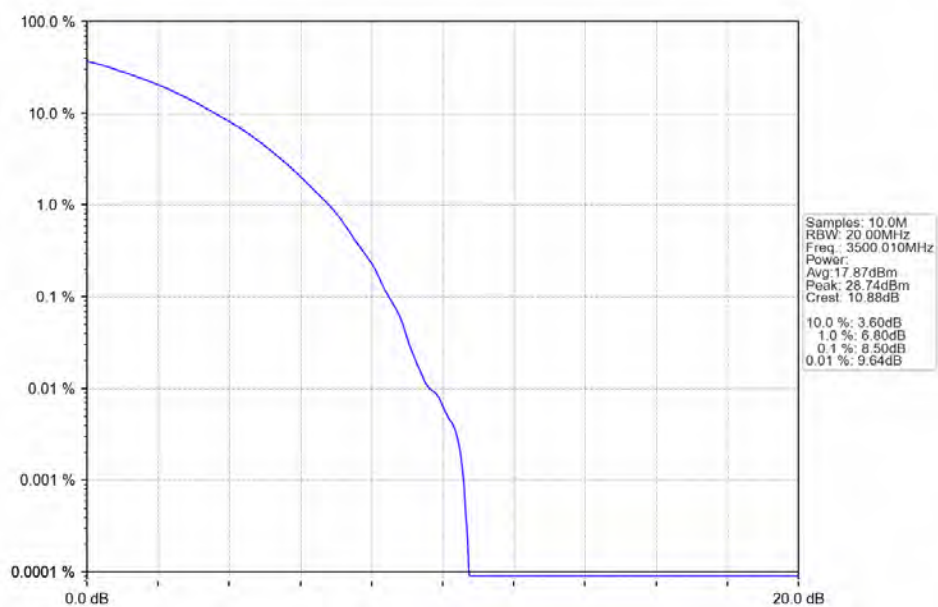
n78e\_30kHz\_SISO\_NTNV\_15MHz\_CP-OFDM\_64\_QAM\_3542.49MHz\_Outer\_Full\_Ant1



n78e\_30kHz\_SISO\_NTNV\_15MHz\_CP-OFDM\_256\_QAM\_3457.5MHz\_Outer\_Full\_Ant1



n78e\_30kHz\_SISO\_NTNV\_15MHz\_CP-OFDM\_256\_QAM\_3500.01MHz\_Outer\_Full\_Ant1





n78e\_30kHz\_SISO\_NTNV\_15MHz\_CP-OFDM\_256\_QAM\_3542.49MHz\_Outer\_Full\_Ant1

