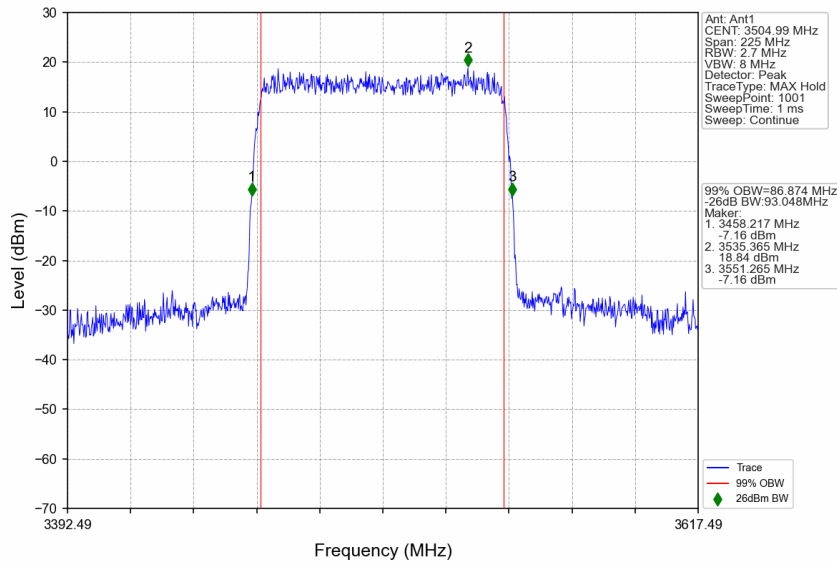
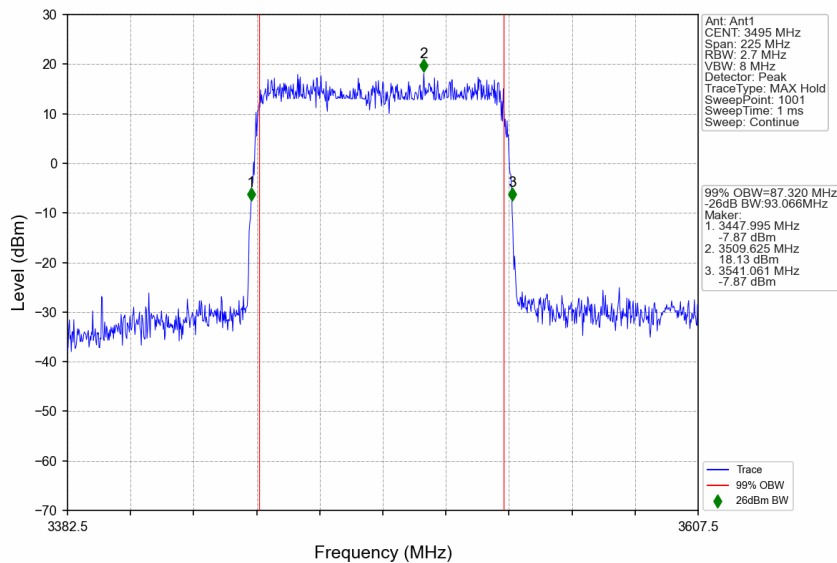


n77d\_30kHz\_SISO\_NTNV\_90MHz\_DFT-s-OFDM 16 QAM\_3504.99MHz\_Outer\_Full



n77d\_30kHz\_SISO\_NTNV\_90MHz\_DFT-s-OFDM 64 QAM\_3495MHz\_Outer\_Full

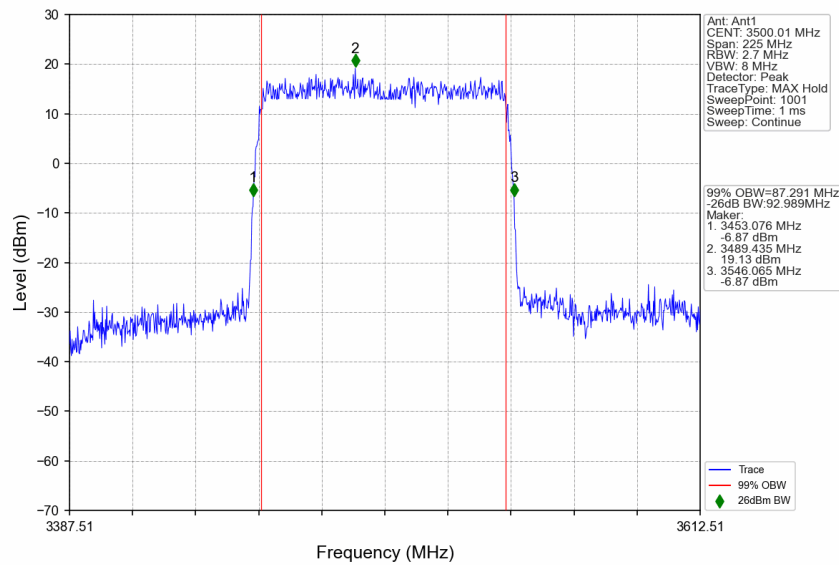


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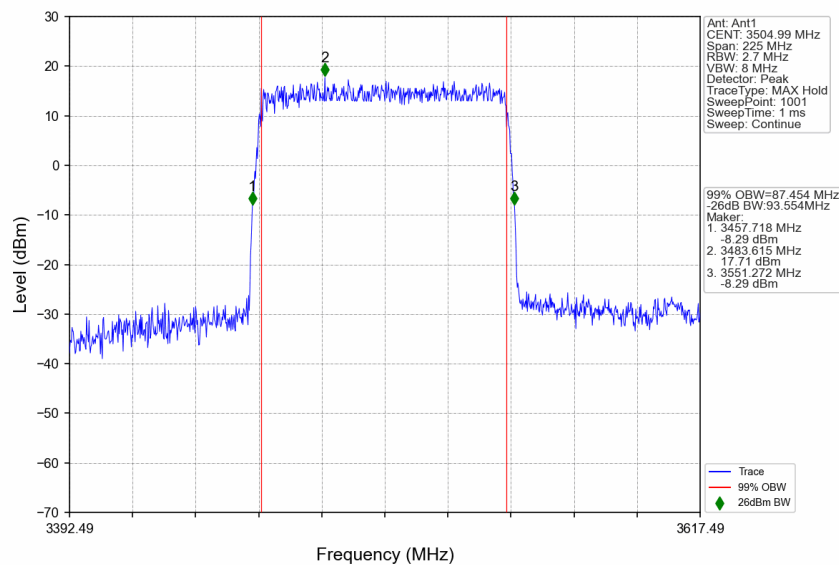
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n77d\_30kHz\_SISO\_NTNV\_90MHz\_DFT-s-OFDM 64 QAM\_3500.01MHz\_Outer\_Full



n77d\_30kHz\_SISO\_NTNV\_90MHz\_DFT-s-OFDM 64 QAM\_3504.99MHz\_Outer\_Full

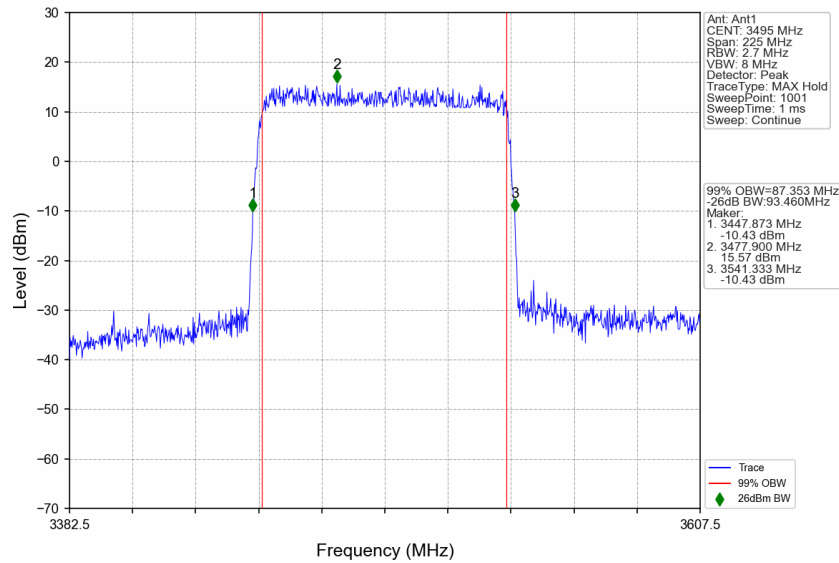


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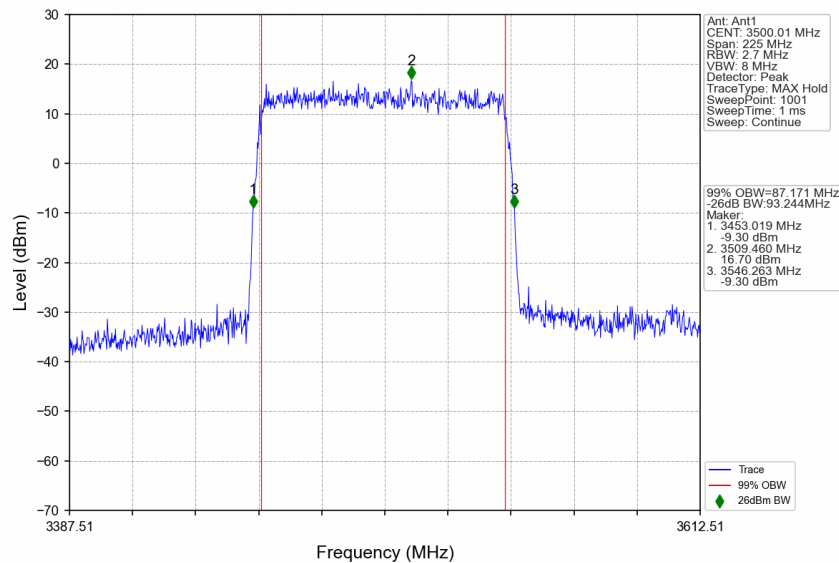
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n77d\_30kHz\_SISO\_NTNV\_90MHz\_DFT-s-OFDM 256 QAM\_3495MHz\_Outer\_Full



n77d\_30kHz\_SISO\_NTNV\_90MHz\_DFT-s-OFDM 256 QAM\_3500.01MHz\_Outer\_Full

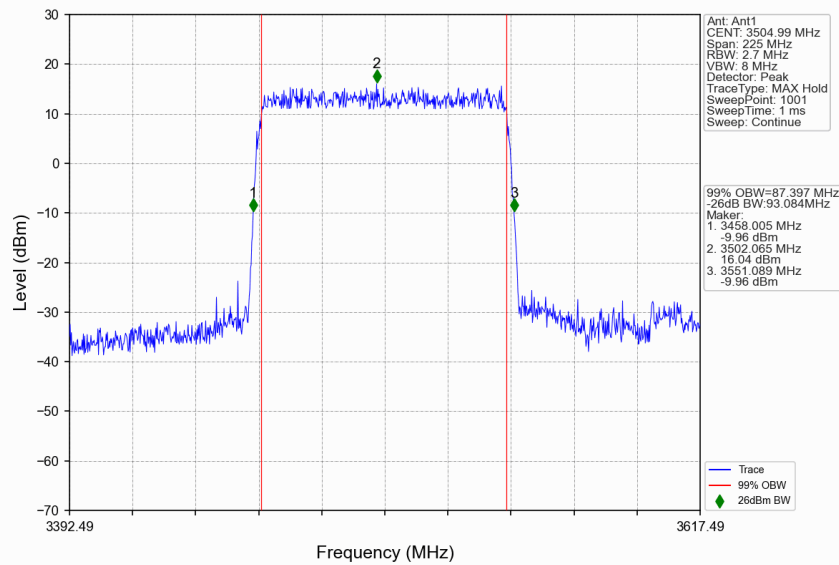


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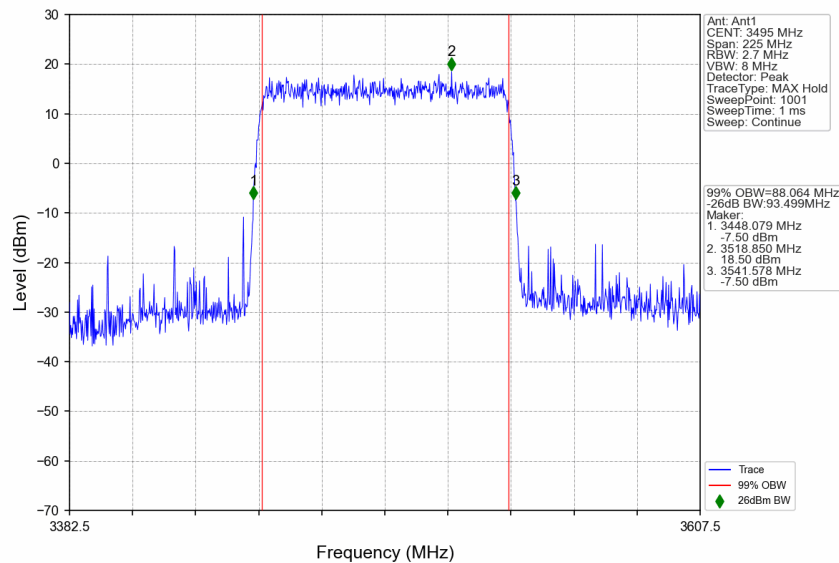
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n77d\_30kHz\_SISO\_NTNV\_90MHz\_DFT-s-OFDM 256 QAM\_3504.99MHz\_Outer\_Full



n77d\_30kHz\_SISO\_NTNV\_90MHz\_CP-OFDM QPSK\_3495MHz\_Outer\_Full

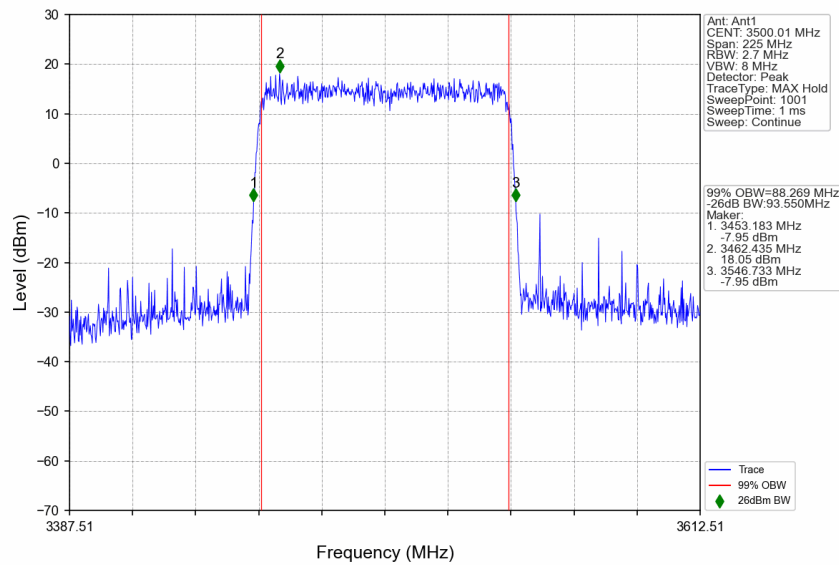


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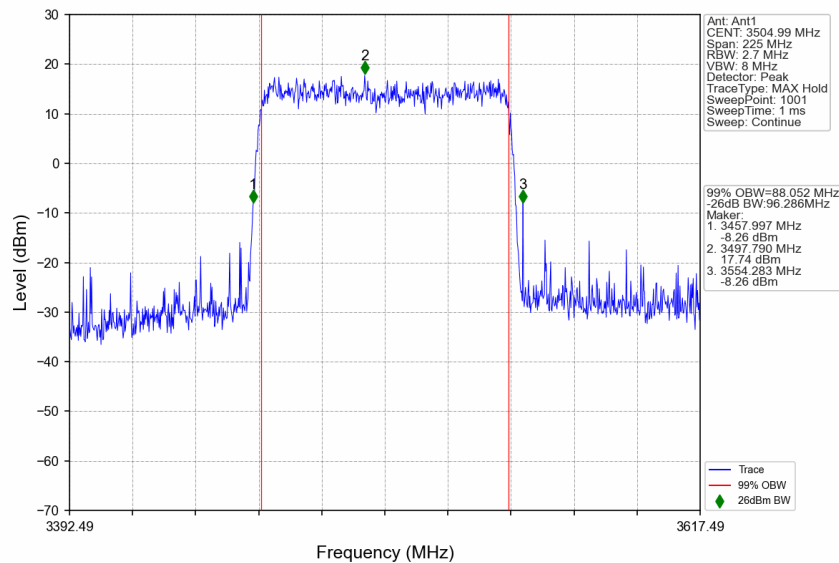
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n77d\_30kHz\_SISO\_NTNV\_90MHz\_CP-OFDM QPSK\_3500.01MHz\_Outer\_Full



n77d\_30kHz\_SISO\_NTNV\_90MHz\_CP-OFDM QPSK\_3504.99MHz\_Outer\_Full

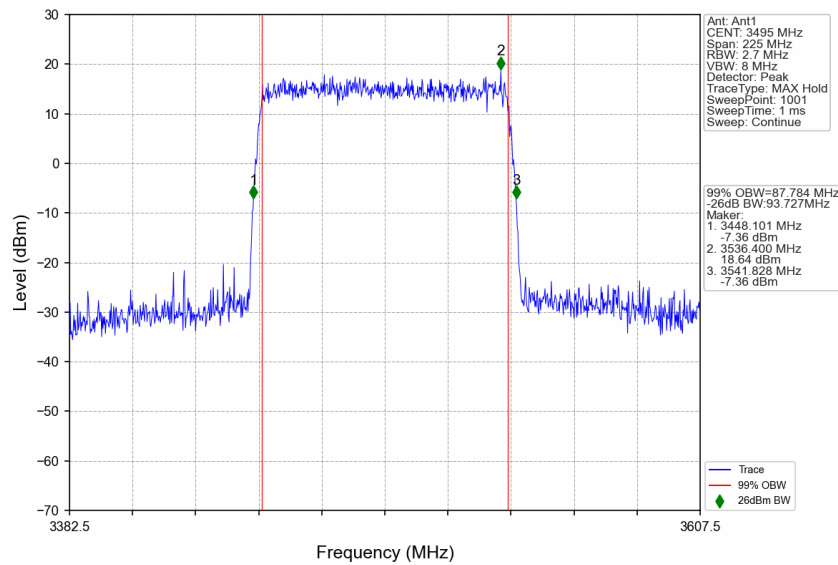


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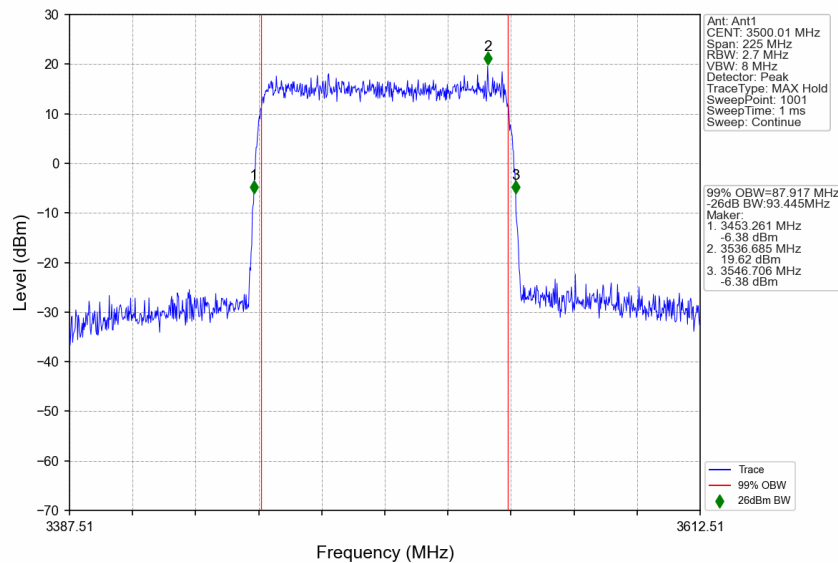
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n77d\_30kHz\_SISO\_NTNV\_90MHz\_CP-OFDM 16 QAM\_3495MHz\_Outer\_Full



n77d\_30kHz\_SISO\_NTNV\_90MHz\_CP-OFDM 16 QAM\_3500.01MHz\_Outer\_Full

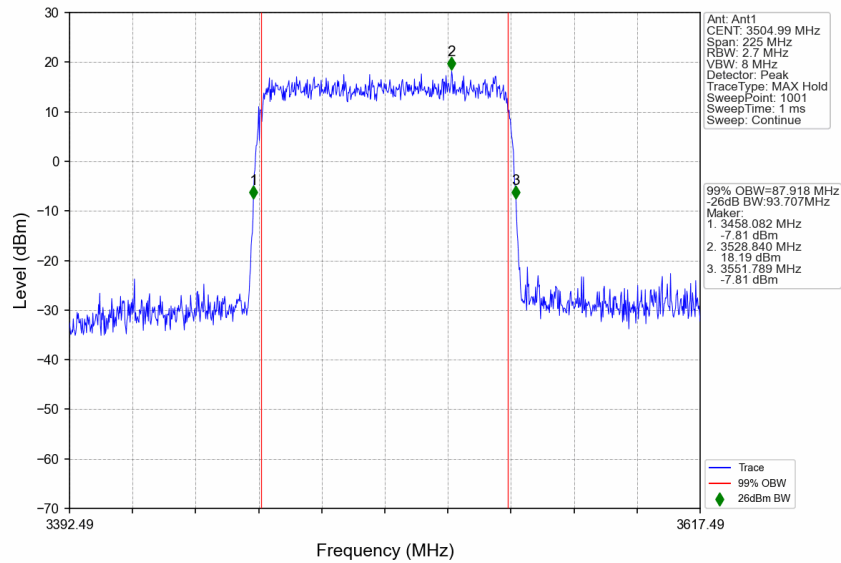


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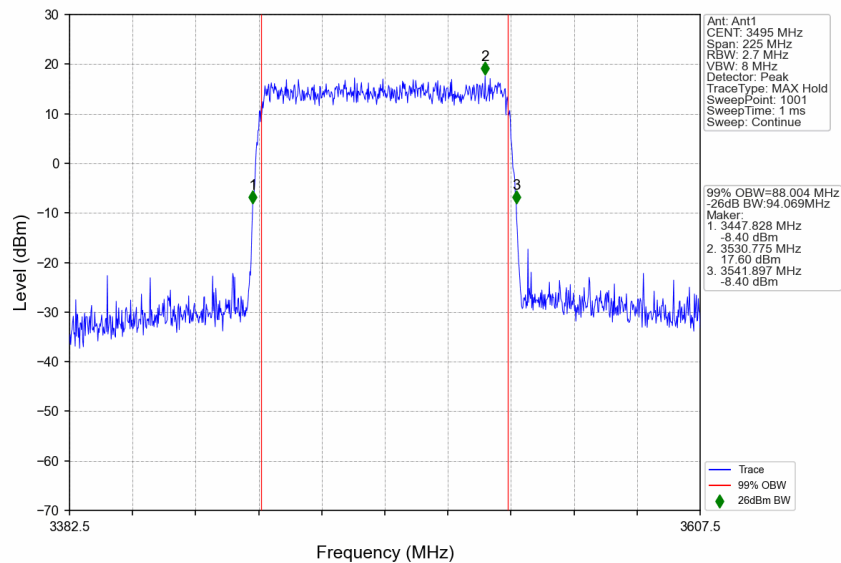
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n77d\_30kHz\_SISO\_NTNV\_90MHz\_CP-OFDM 16 QAM\_3504.99MHz\_Outer\_Full



n77d\_30kHz\_SISO\_NTNV\_90MHz\_CP-OFDM 64 QAM\_3495MHz\_Outer\_Full

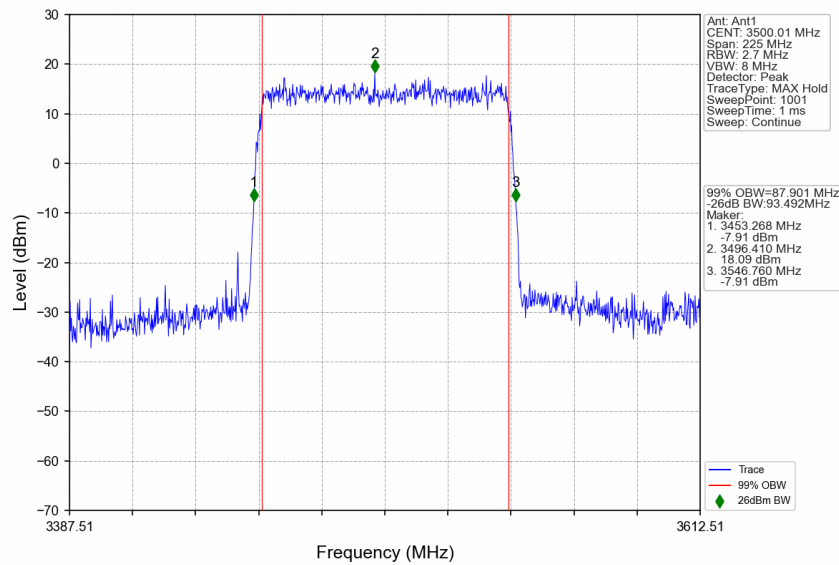


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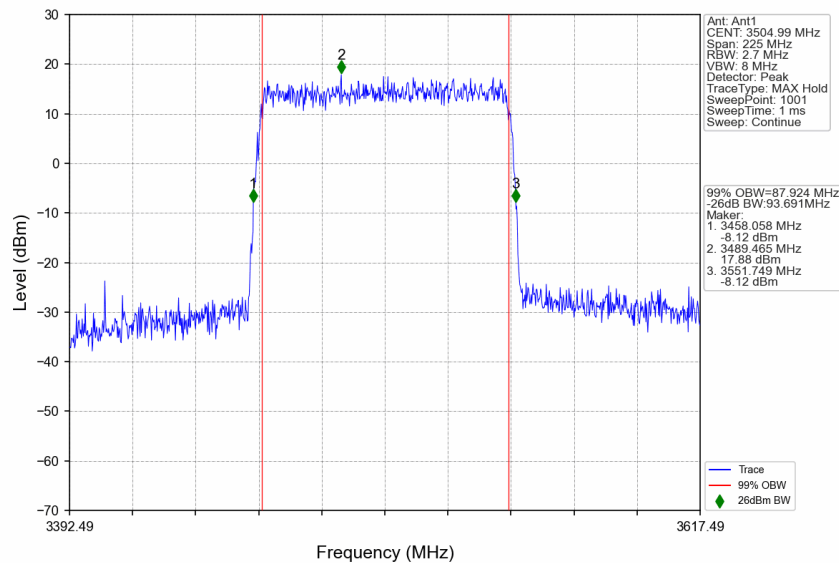
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n77d\_30kHz\_SISO\_NTNV\_90MHz\_CP-OFDM 64 QAM\_3504.99MHz\_Outer\_Full



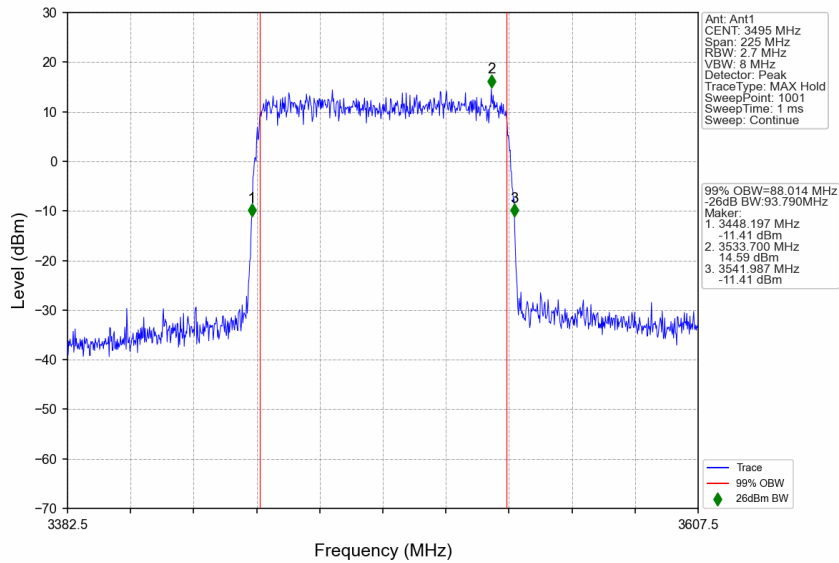
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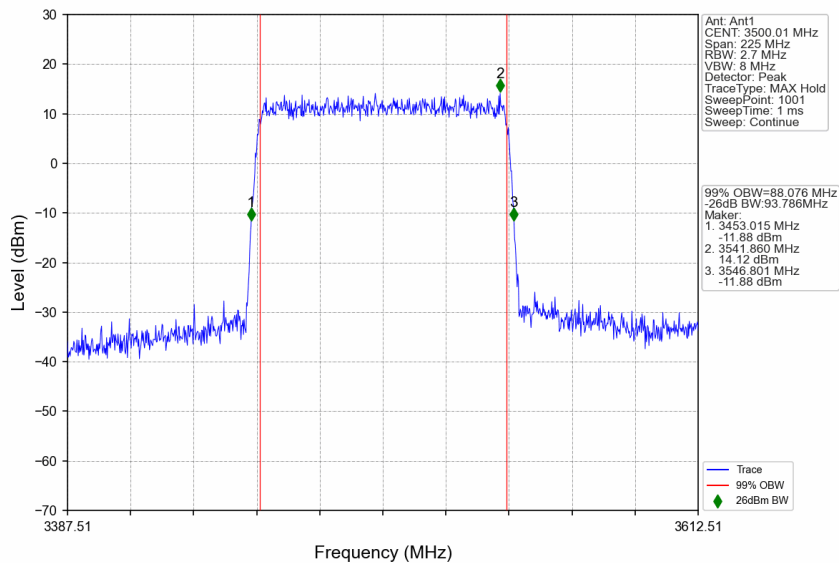
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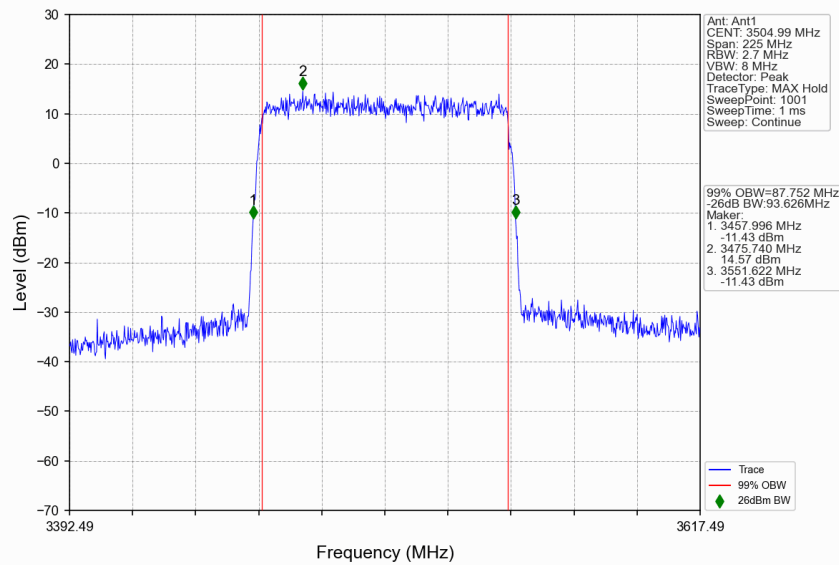


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 Wireless Laboratory

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Member of the SGS Group (SGS SA)

4.19 30k\_SISO\_100MHz\_NTNV

4.19.1 Test Result

| 5G NR n77d SCS=30kHz SISO 100MHz NTN |                 |               |                     |                      |             |         |
|--------------------------------------|-----------------|---------------|---------------------|----------------------|-------------|---------|
| Modulation                           | Frequency (MHz) | RB Allocation | 99% Bandwidth (MHz) | 26dB Bandwidth (MHz) | Limit (MHz) | Verdict |
| DFT-s-OFDM PI/2 BPSK                 | 3500.01         | Outer_Full    | 97.25               | 103.32               | /           | Pass    |
|                                      | 3500.01         | Outer_Full    | 97.35               | 103.32               | /           | Pass    |
|                                      | 3499.98         | Outer_Full    | 97.35               | 103.23               | /           | Pass    |
| DFT-s-OFDM QPSK                      | 3500.01         | Outer_Full    | 96.86               | 103.38               | /           | Pass    |
|                                      | 3500.01         | Outer_Full    | 97.17               | 103.27               | /           | Pass    |
|                                      | 3499.98         | Outer_Full    | 97.05               | 103.34               | /           | Pass    |
| DFT-s-OFDM 16 QAM                    | 3500.01         | Outer_Full    | 97.07               | 102.99               | /           | Pass    |
|                                      | 3500.01         | Outer_Full    | 97.69               | 103.20               | /           | Pass    |
|                                      | 3499.98         | Outer_Full    | 97.10               | 103.46               | /           | Pass    |
| DFT-s-OFDM 64 QAM                    | 3500.01         | Outer_Full    | 97.26               | 103.54               | /           | Pass    |
|                                      | 3500.01         | Outer_Full    | 96.69               | 103.25               | /           | Pass    |
|                                      | 3499.98         | Outer_Full    | 97.11               | 103.66               | /           | Pass    |
| DFT-s-OFDM 256 QAM                   | 3500.01         | Outer_Full    | 96.81               | 103.61               | /           | Pass    |
|                                      | 3500.01         | Outer_Full    | 97.21               | 103.28               | /           | Pass    |
|                                      | 3499.98         | Outer_Full    | 97.28               | 103.43               | /           | Pass    |
| CP-OFDM QPSK                         | 3500.01         | Outer_Full    | 97.68               | 104.48               | /           | Pass    |
|                                      | 3500.01         | Outer_Full    | 97.95               | 103.76               | /           | Pass    |
|                                      | 3499.98         | Outer_Full    | 98.06               | 104.23               | /           | Pass    |
| CP-OFDM 16 QAM                       | 3500.01         | Outer_Full    | 98.13               | 104.39               | /           | Pass    |
|                                      | 3500.01         | Outer_Full    | 98.07               | 104.16               | /           | Pass    |
|                                      | 3499.98         | Outer_Full    | 98.05               | 104.58               | /           | Pass    |
| CP-OFDM 64 QAM                       | 3500.01         | Outer_Full    | 98.33               | 104.54               | /           | Pass    |
|                                      | 3500.01         | Outer_Full    | 98.09               | 104.60               | /           | Pass    |
|                                      | 3499.98         | Outer_Full    | 97.67               | 103.84               | /           | Pass    |
| CP-OFDM 256 QAM                      | 3500.01         | Outer_Full    | 97.97               | 104.49               | /           | Pass    |
|                                      | 3500.01         | Outer_Full    | 98.20               | 104.38               | /           | Pass    |
|                                      | 3499.98         | Outer_Full    | 98.16               | 104.62               | /           | Pass    |

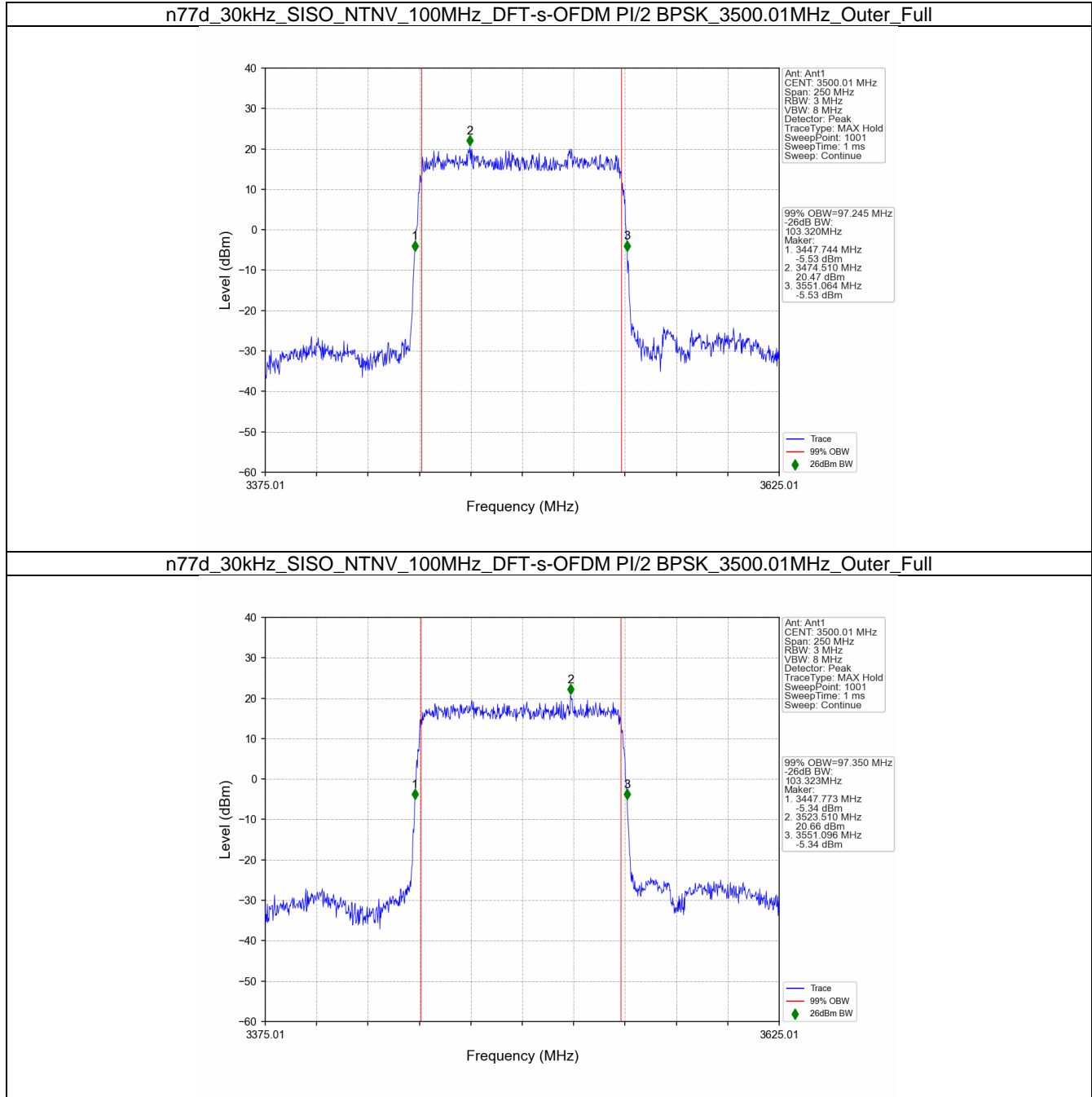


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4.19.2 Test Graph

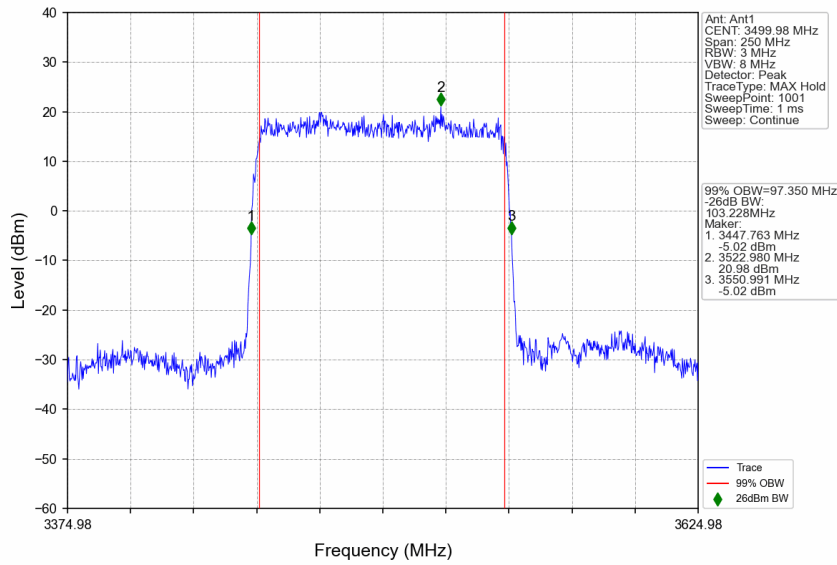


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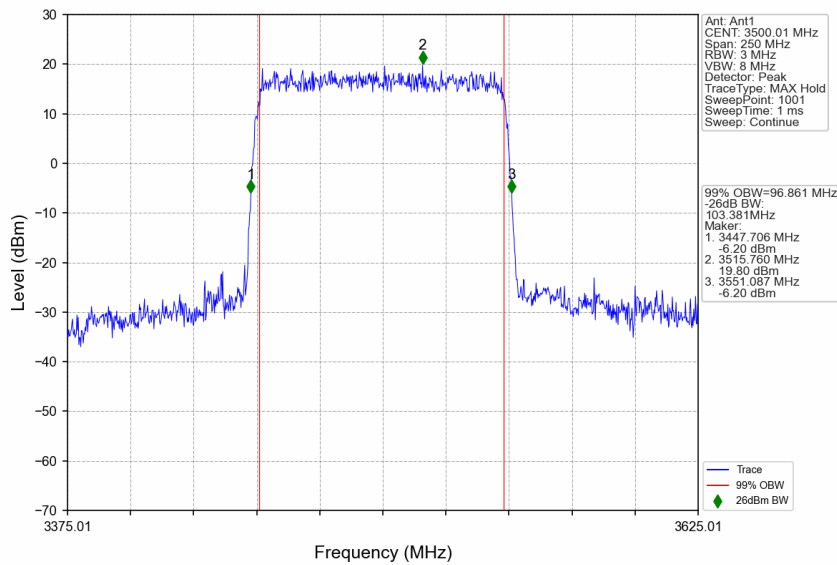
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n77d\_30kHz\_SISO\_NTNV\_100MHz\_DFT-s-OFDM PI/2 BPSK\_3499.98MHz\_Outer\_Full



n77d\_30kHz\_SISO\_NTNV\_100MHz\_DFT-s-OFDM QPSK\_3500.01MHz\_Outer\_Full

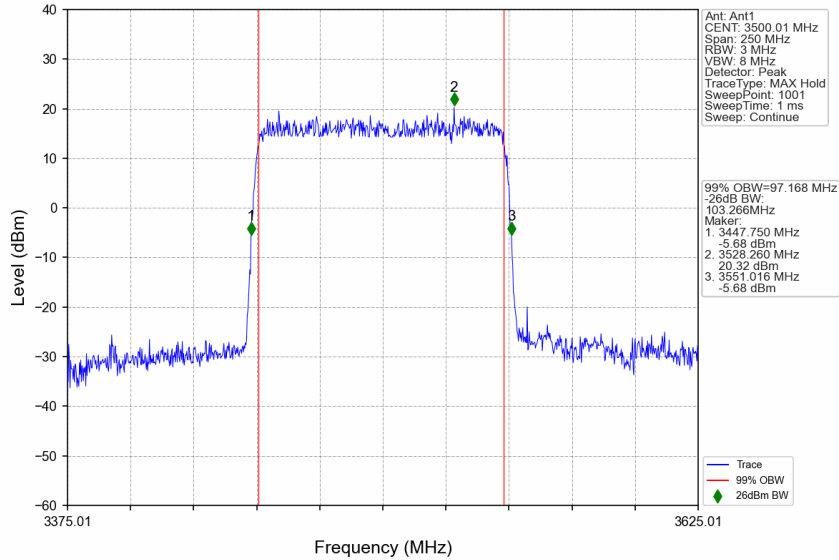


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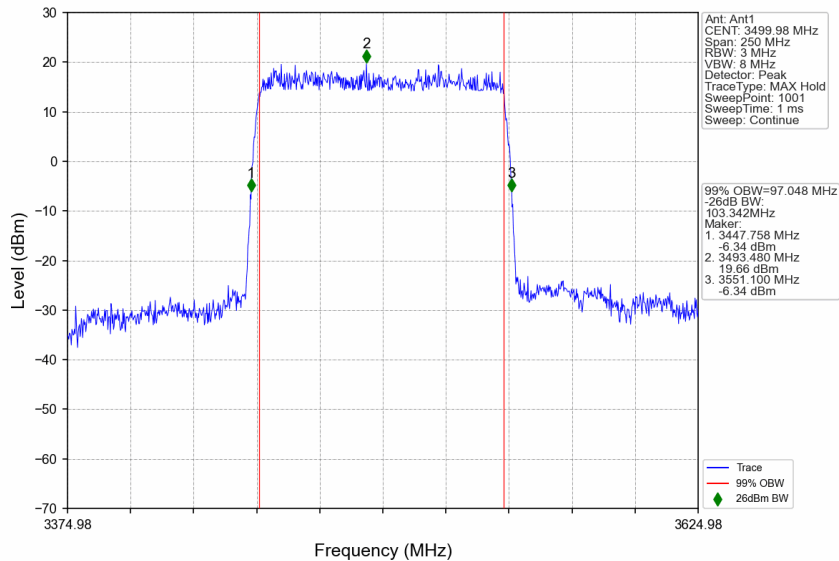
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n77d\_30kHz\_SISO\_NTNV\_100MHz\_DFT-s-OFDM QPSK\_3500.01MHz\_Outer\_Full



n77d\_30kHz\_SISO\_NTNV\_100MHz\_DFT-s-OFDM QPSK\_3499.98MHz\_Outer\_Full

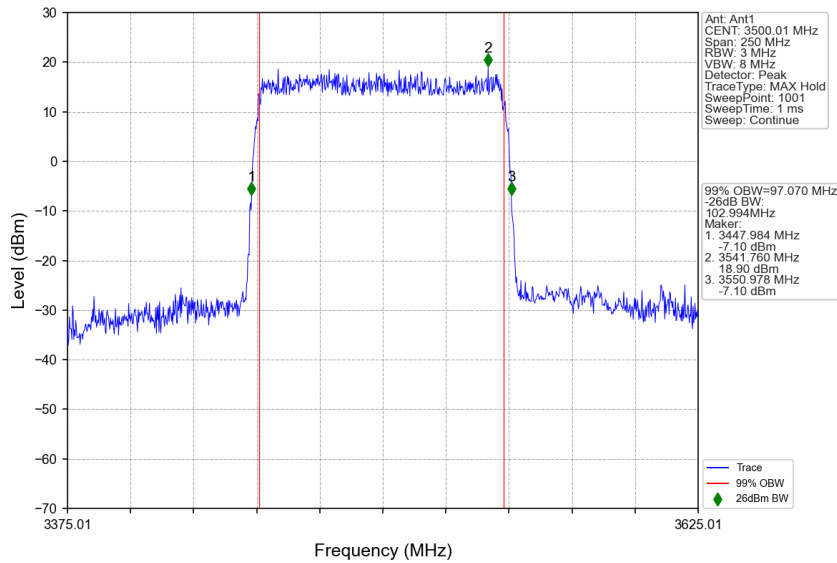


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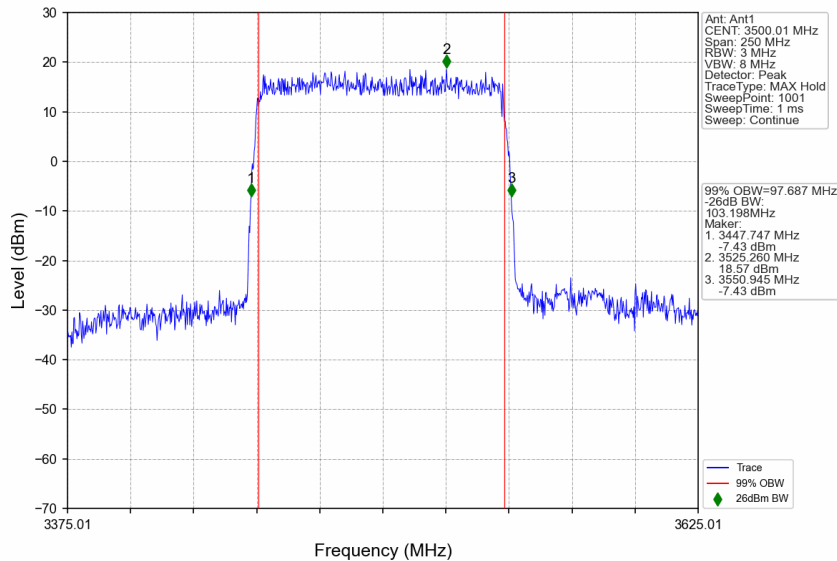
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n77d\_30kHz\_SISO\_NTNV\_100MHz\_DFT-s-OFDM 16 QAM\_3500.01MHz\_Outer\_Full



n77d\_30kHz\_SISO\_NTNV\_100MHz\_DFT-s-OFDM 16 QAM\_3500.01MHz\_Outer\_Full

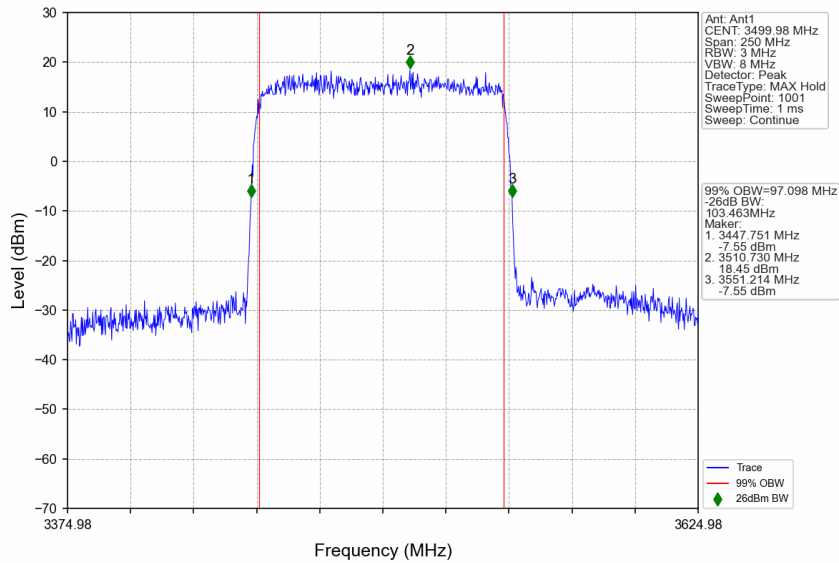


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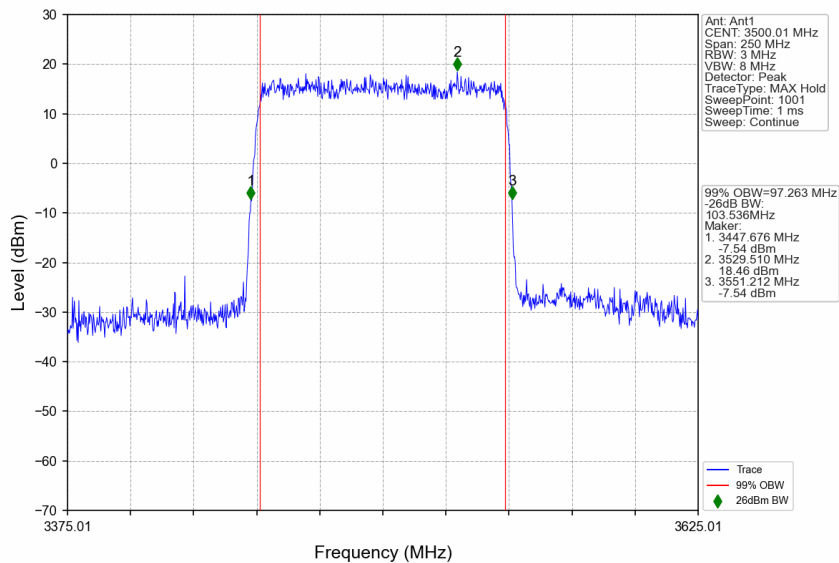
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n77d\_30kHz\_SISO\_NTNV\_100MHz\_DFT-s-OFDM 16 QAM\_3499.98MHz\_Outer\_Full



n77d\_30kHz\_SISO\_NTNV\_100MHz\_DFT-s-OFDM 64 QAM\_3500.01MHz\_Outer\_Full



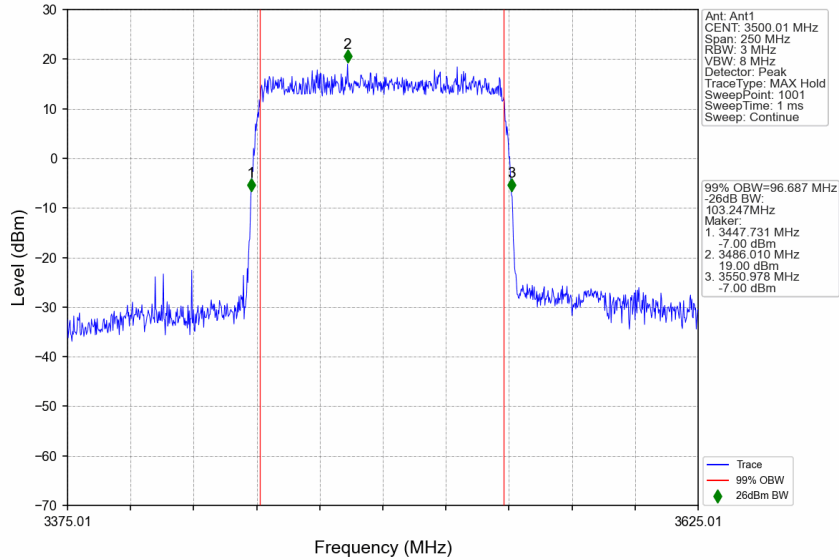
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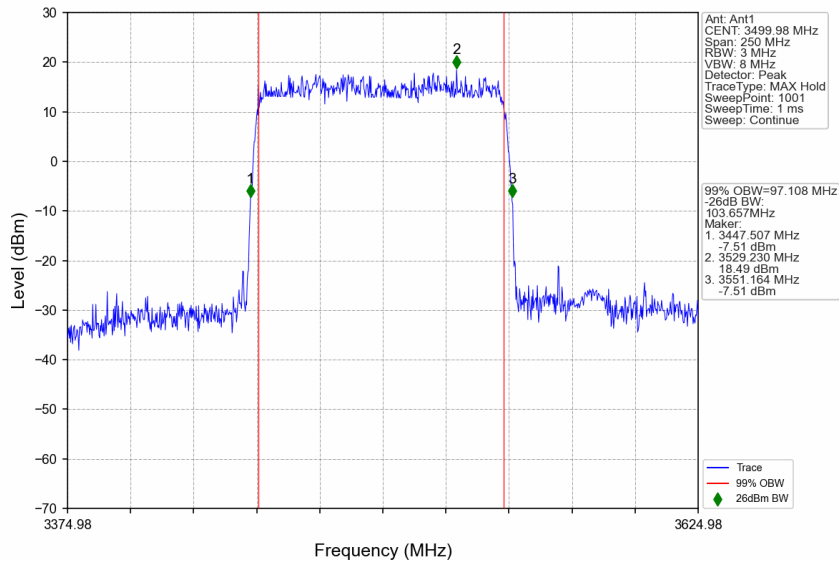
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n77d\_30kHz\_SISO\_NTNV\_100MHz\_DFT-s-OFDM 64 QAM\_3499.98MHz\_Outer\_Full

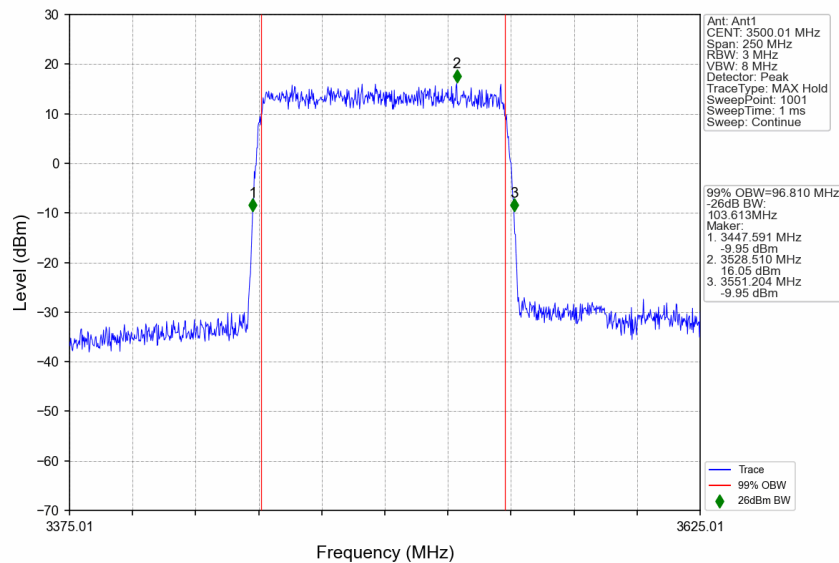


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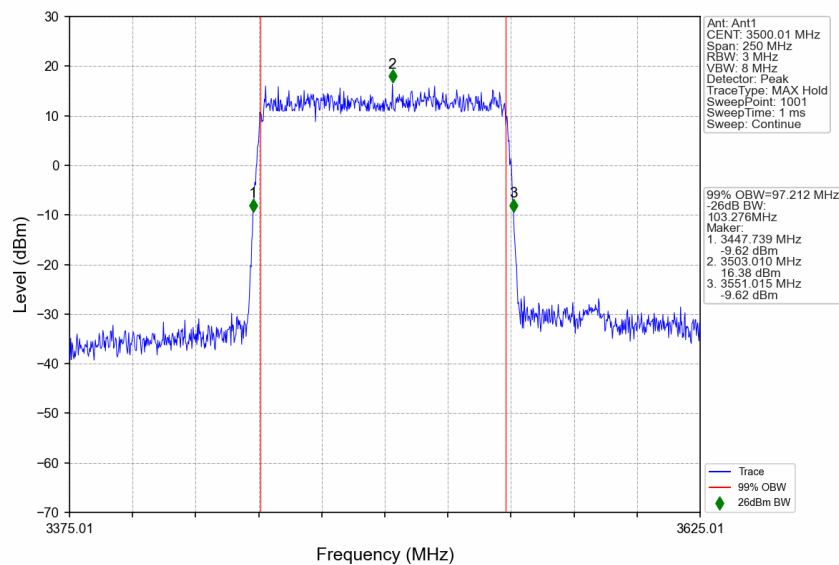
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n77d\_30kHz\_SISO\_NTNV\_100MHz\_DFT-s-OFDM 256 QAM\_3500.01MHz\_Outer\_Full

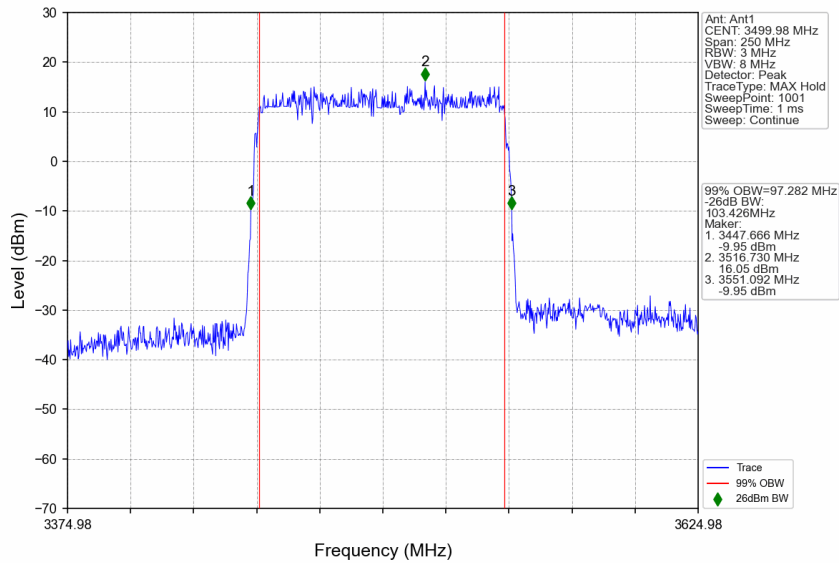


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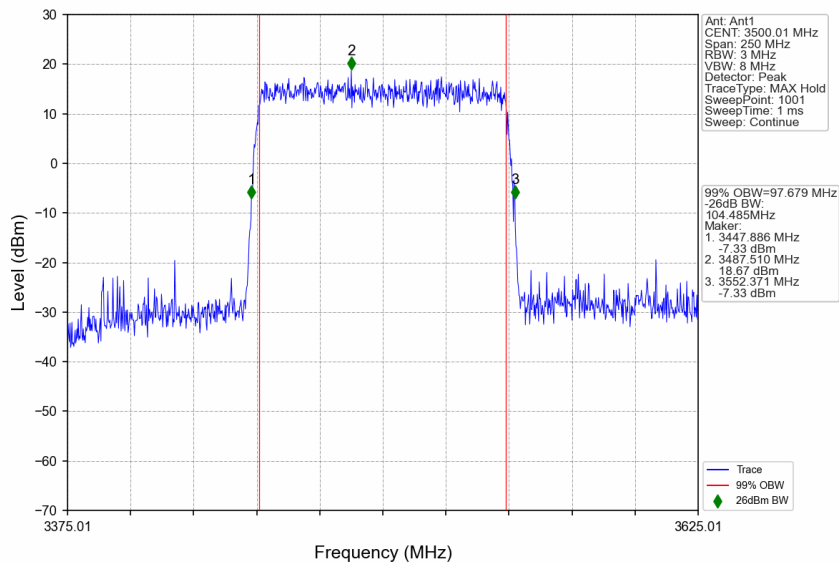
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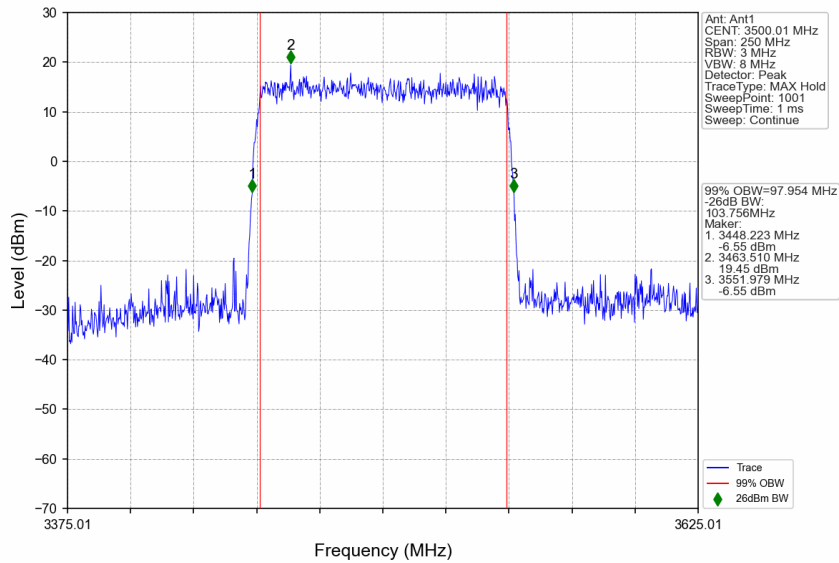


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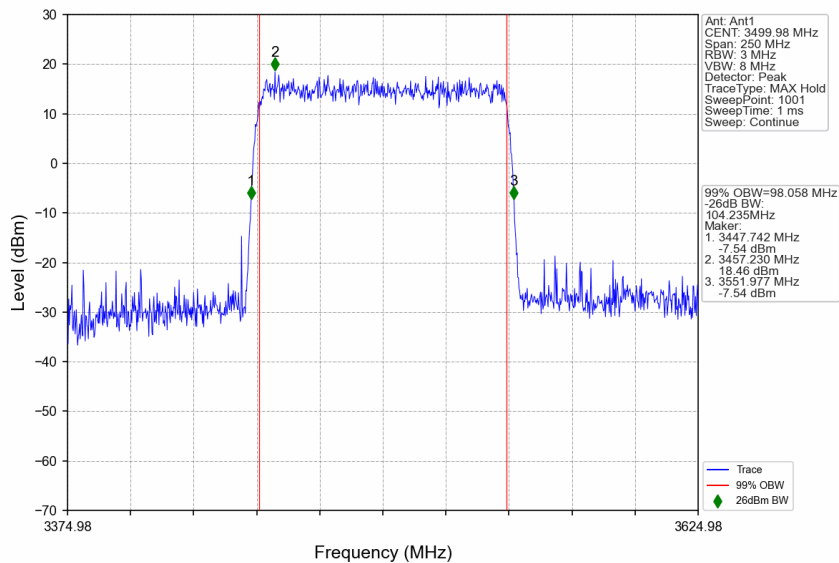
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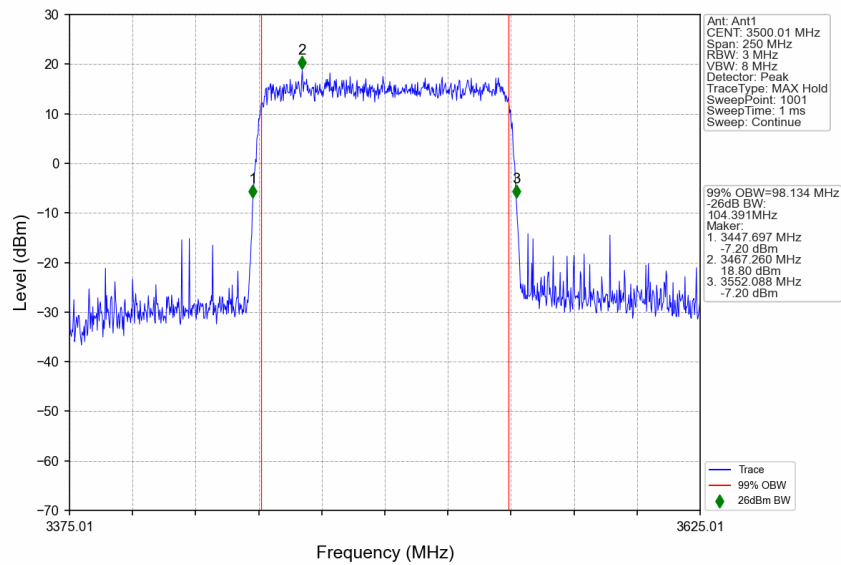


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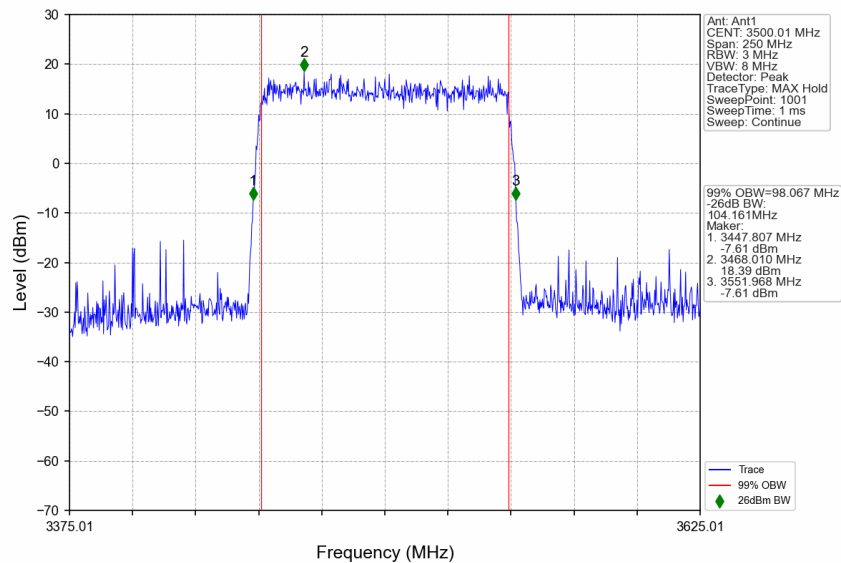
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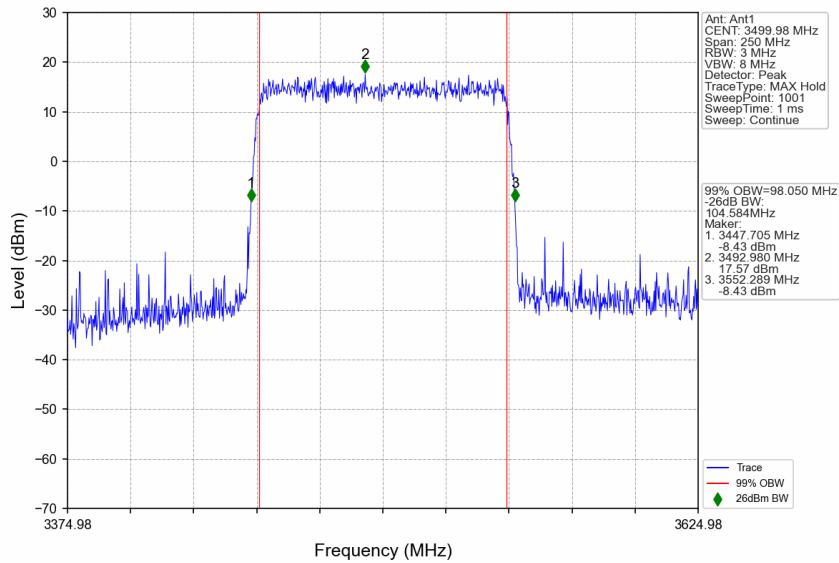


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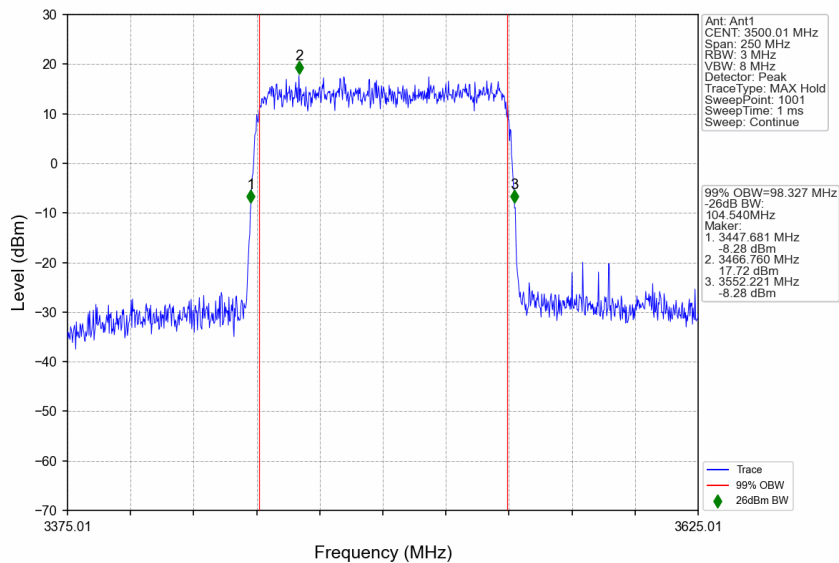
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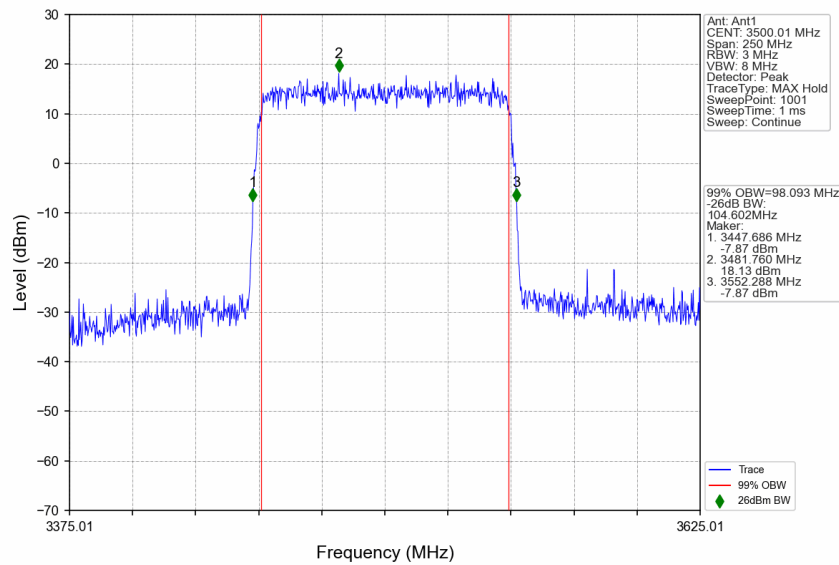


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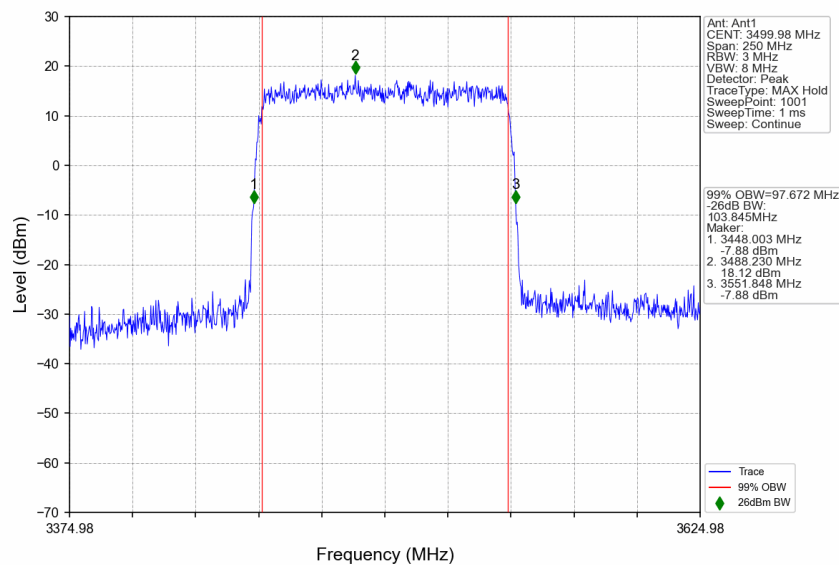
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n77d\_30kHz\_SISO\_NTNV\_100MHz\_CP-OFDM 64 QAM\_3500.01MHz\_Outer\_Full



n77d\_30kHz\_SISO\_NTNV\_100MHz\_CP-OFDM 64 QAM\_3499.98MHz\_Outer\_Full

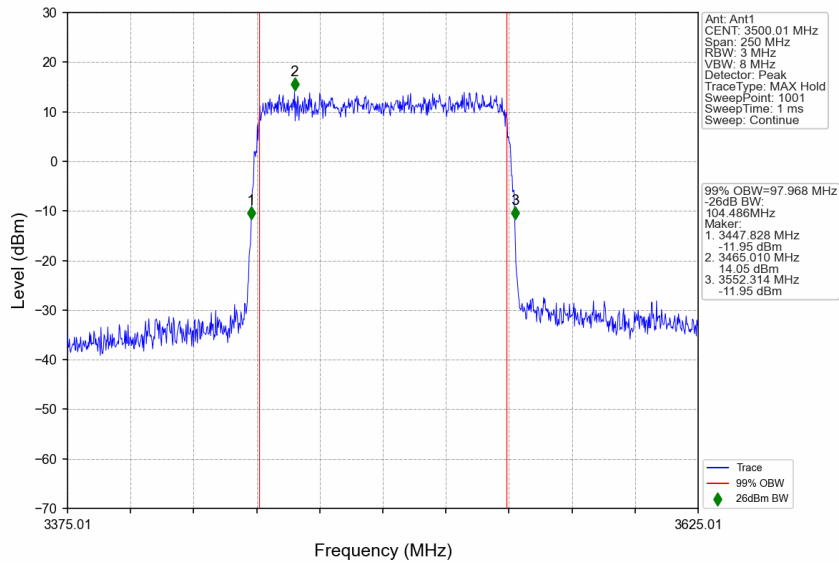


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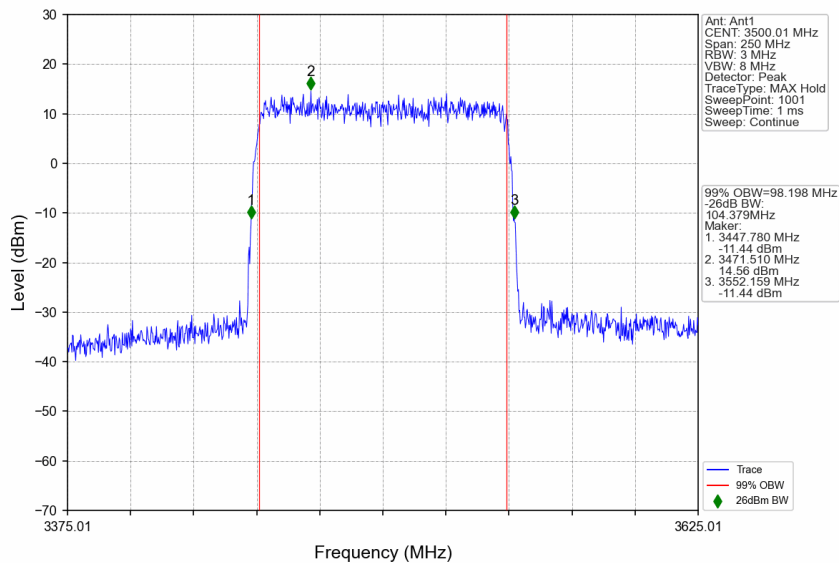
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n77d\_30kHz\_SISO\_NTNV\_100MHz\_CP-OFDM 256 QAM\_3500.01MHz\_Outer\_Full



n77d\_30kHz\_SISO\_NTNV\_100MHz\_CP-OFDM 256 QAM\_3500.01MHz\_Outer\_Full



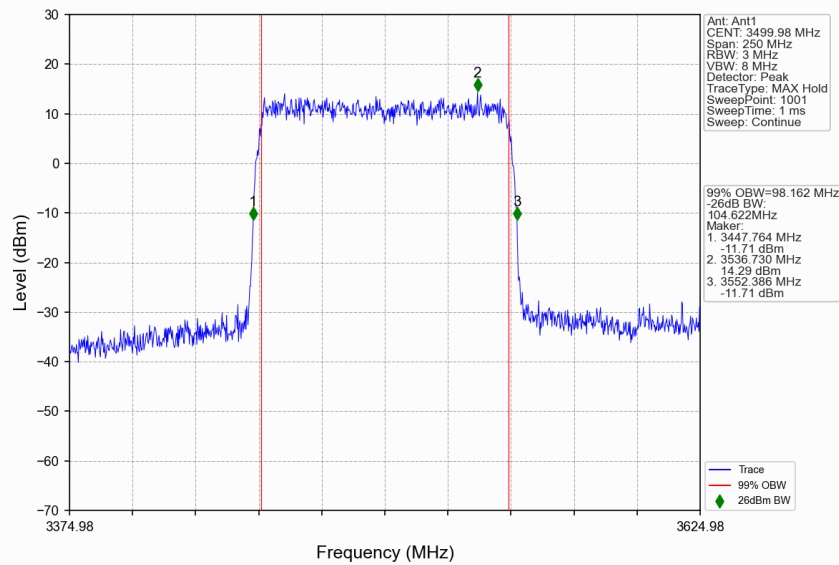
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## 5. Peak-Average Ratio

### 5.1 15k\_SISO\_10MHz\_NTNV

#### 5.1.1 Test Result

| 5G NR n77d SCS=15kHz SISO 10MHz NTN |                 |               |                         |      |     |       |         |
|-------------------------------------|-----------------|---------------|-------------------------|------|-----|-------|---------|
| Modulation                          | Frequency (MHz) | RB Allocation | Peak-Average Ratio (dB) |      |     |       | Verdict |
|                                     |                 |               | Ant5                    | Ant2 | Sum | Limit |         |
| DFT-s-OFDM PI/2 BPSK                | 3455.01         | Outer_Full    | 8.43                    | /    | /   | <=13  | Pass    |
|                                     | 3499.995        | Outer_Full    | 8.59                    | /    | /   | <=13  | Pass    |
|                                     | 3544.995        | Outer_Full    | 8.49                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM QPSK                     | 3455.01         | Outer_Full    | 9.51                    | /    | /   | <=13  | Pass    |
|                                     | 3499.995        | Outer_Full    | 9.44                    | /    | /   | <=13  | Pass    |
|                                     | 3544.995        | Outer_Full    | 9.49                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 16 QAM                   | 3455.01         | Outer_Full    | 10.31                   | /    | /   | <=13  | Pass    |
|                                     | 3499.995        | Outer_Full    | 10.04                   | /    | /   | <=13  | Pass    |
|                                     | 3544.995        | Outer_Full    | 10.21                   | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 64 QAM                   | 3455.01         | Outer_Full    | 10.30                   | /    | /   | <=13  | Pass    |
|                                     | 3499.995        | Outer_Full    | 10.21                   | /    | /   | <=13  | Pass    |
|                                     | 3544.995        | Outer_Full    | 10.15                   | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 256 QAM                  | 3455.01         | Outer_Full    | 10.63                   | /    | /   | <=13  | Pass    |
|                                     | 3499.995        | Outer_Full    | 10.65                   | /    | /   | <=13  | Pass    |
|                                     | 3544.995        | Outer_Full    | 10.55                   | /    | /   | <=13  | Pass    |
| CP-OFDM QPSK                        | 3455.01         | Outer_Full    | 12.25                   | /    | /   | <=13  | Pass    |
|                                     | 3499.995        | Outer_Full    | 12.00                   | /    | /   | <=13  | Pass    |
|                                     | 3544.995        | Outer_Full    | 12.24                   | /    | /   | <=13  | Pass    |
| CP-OFDM 16 QAM                      | 3455.01         | Outer_Full    | 12.16                   | /    | /   | <=13  | Pass    |
|                                     | 3499.995        | Outer_Full    | 12.18                   | /    | /   | <=13  | Pass    |
|                                     | 3544.995        | Outer_Full    | 12.16                   | /    | /   | <=13  | Pass    |
| CP-OFDM 64 QAM                      | 3455.01         | Outer_Full    | 12.26                   | /    | /   | <=13  | Pass    |
|                                     | 3499.995        | Outer_Full    | 12.49                   | /    | /   | <=13  | Pass    |
|                                     | 3544.995        | Outer_Full    | 12.33                   | /    | /   | <=13  | Pass    |
| CP-OFDM 256 QAM                     | 3455.01         | Outer_Full    | 11.83                   | /    | /   | <=13  | Pass    |
|                                     | 3499.995        | Outer_Full    | 11.75                   | /    | /   | <=13  | Pass    |
|                                     | 3544.995        | Outer_Full    | 11.88                   | /    | /   | <=13  | Pass    |

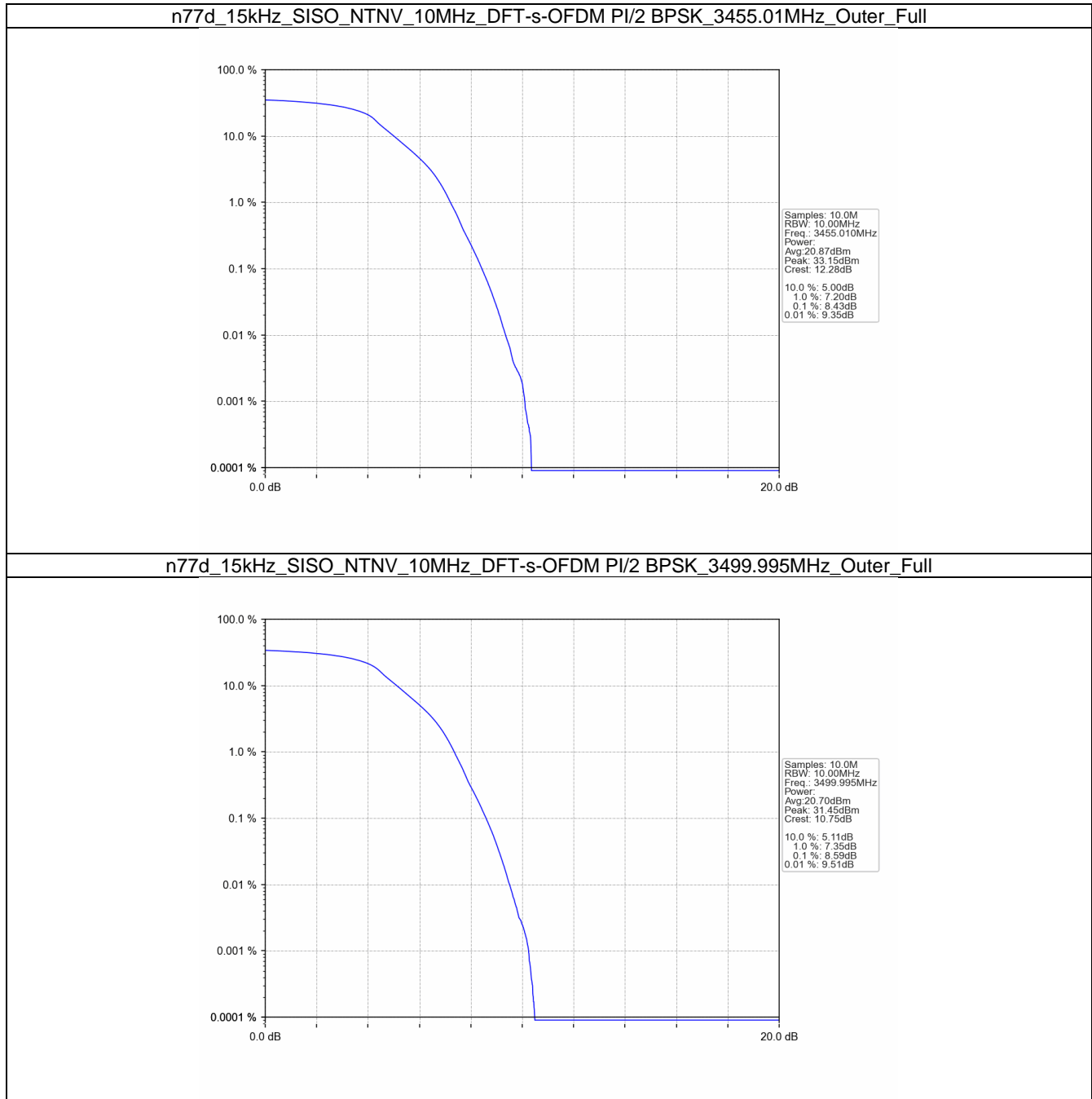


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5.1.2 Test Graph

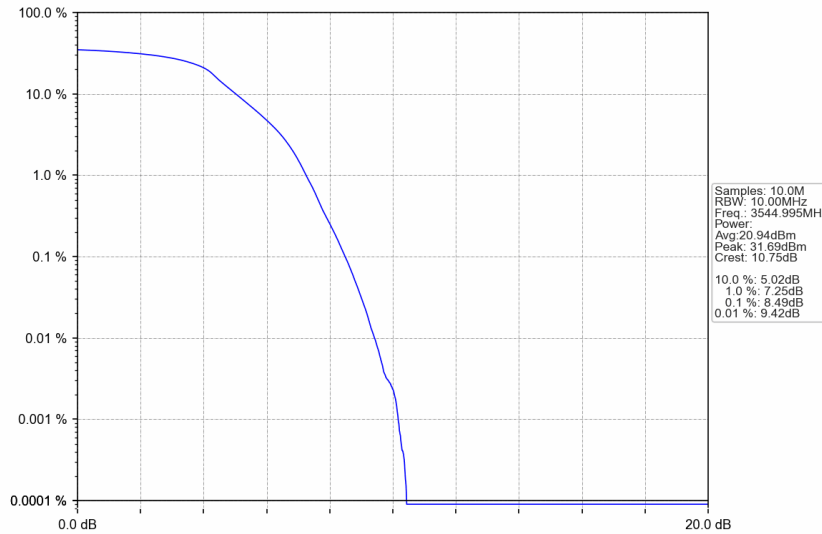


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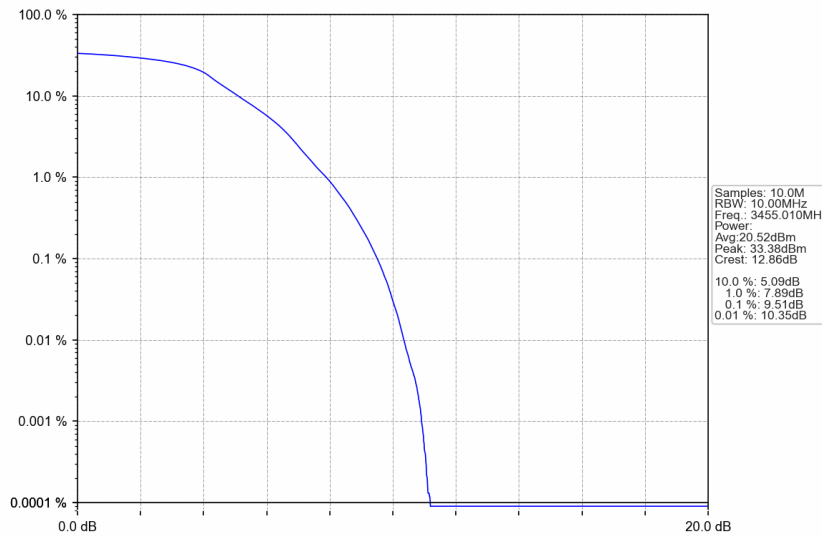
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n77d\_15kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM QPSK\_3455.01MHz\_Outer\_Full



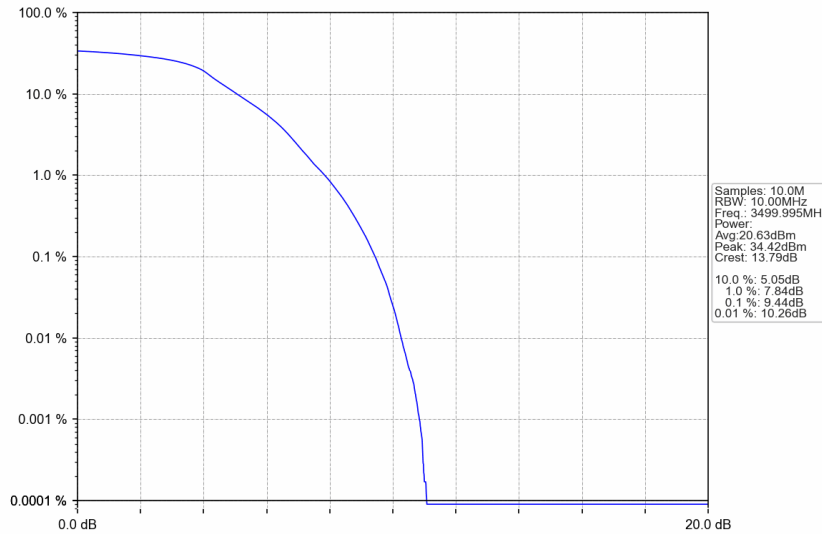
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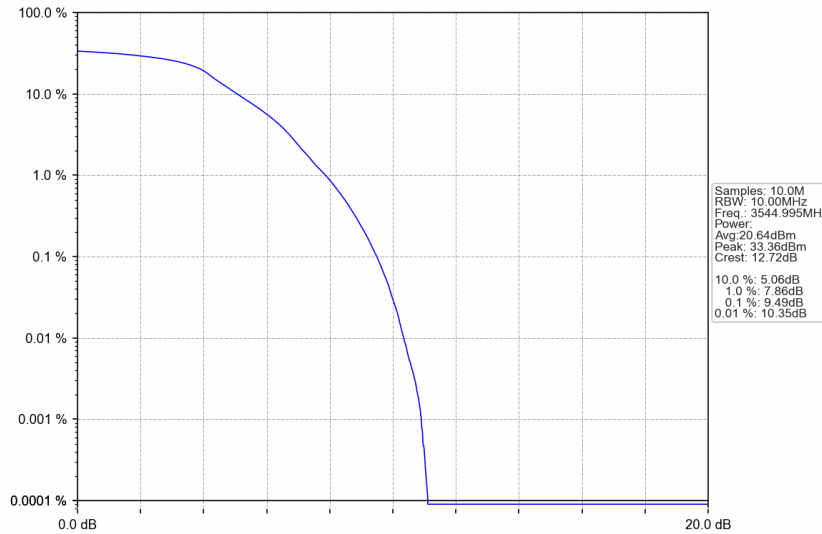
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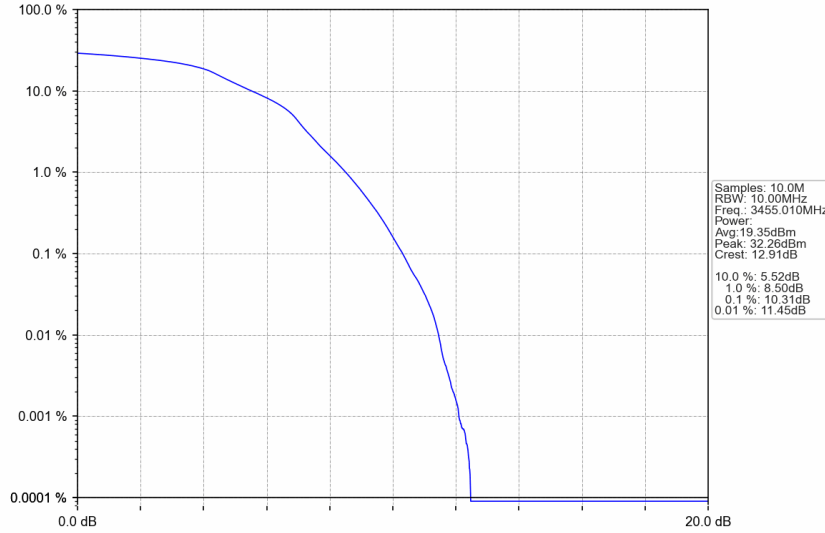


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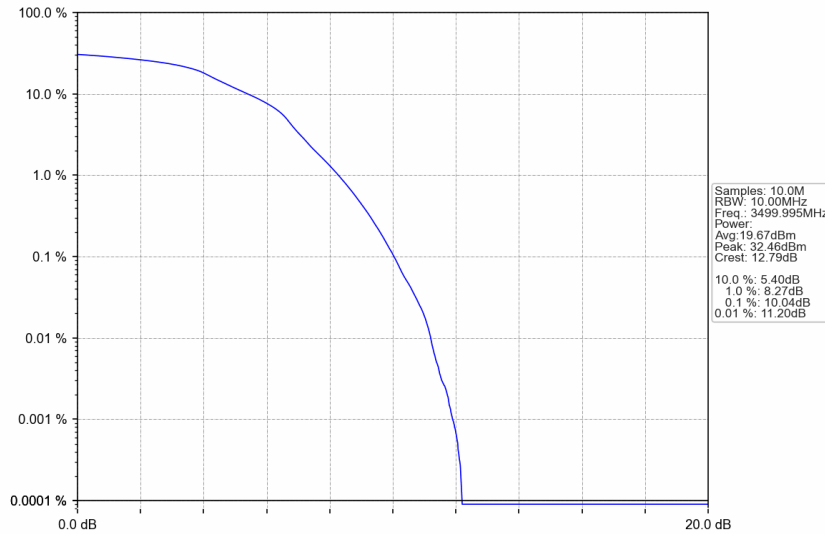
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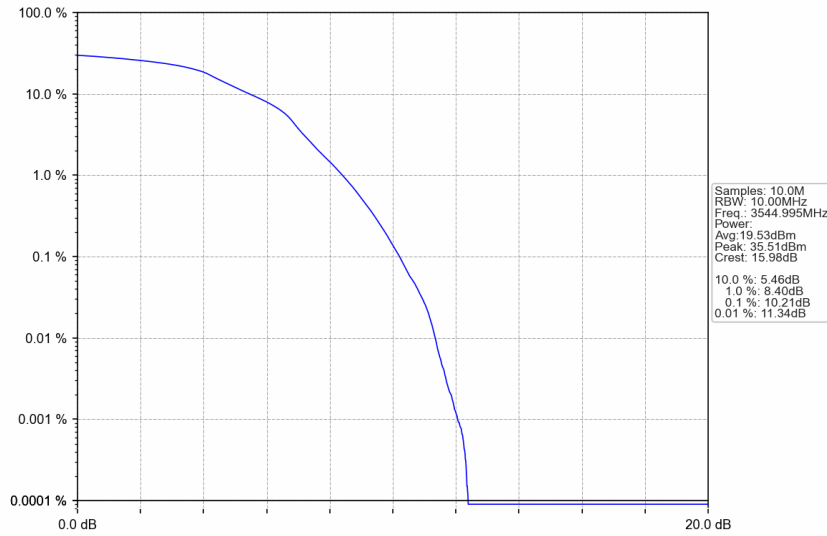


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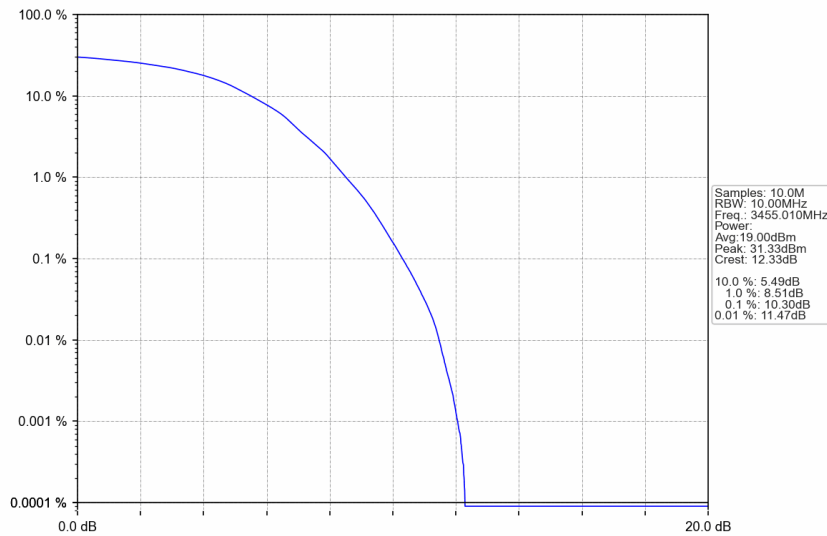
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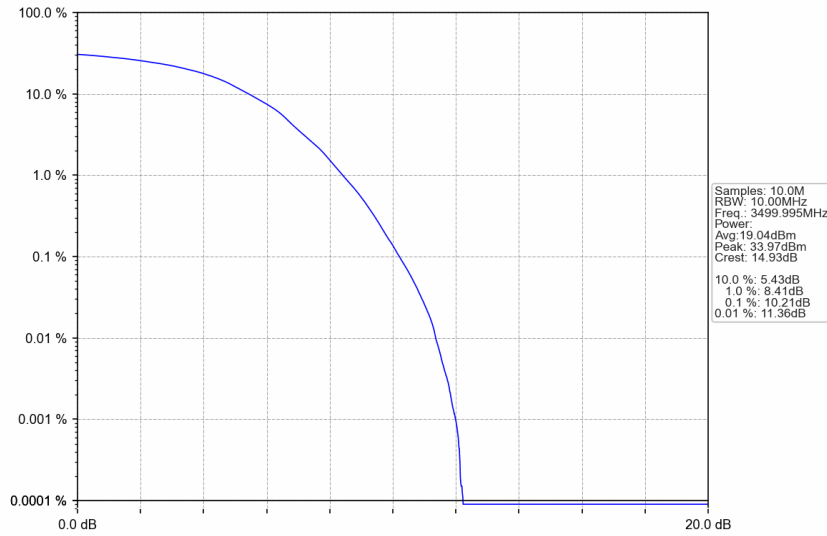
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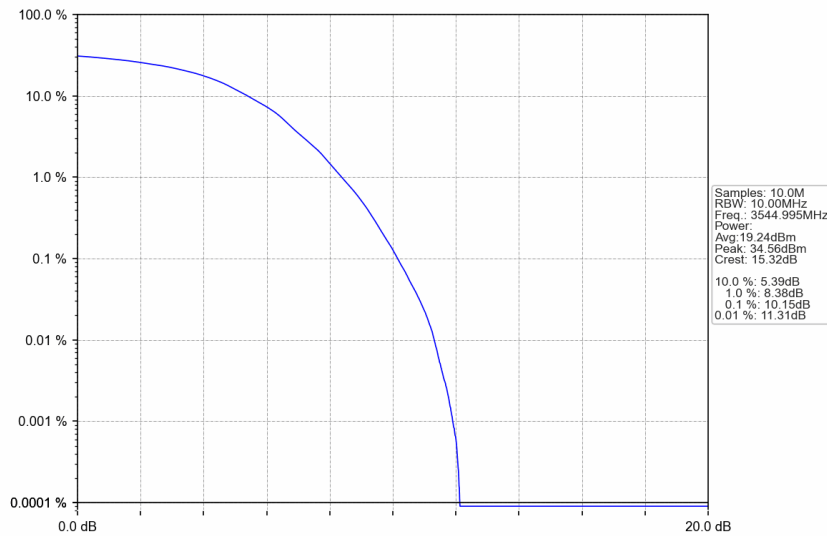
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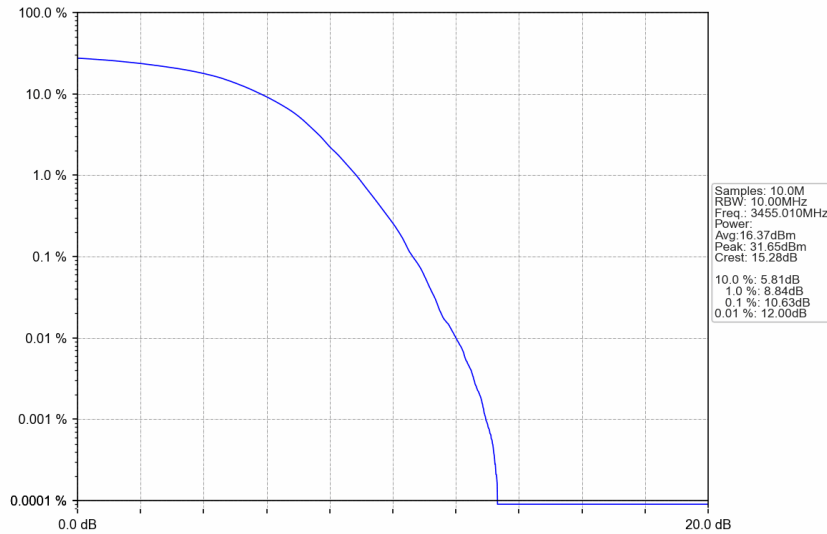
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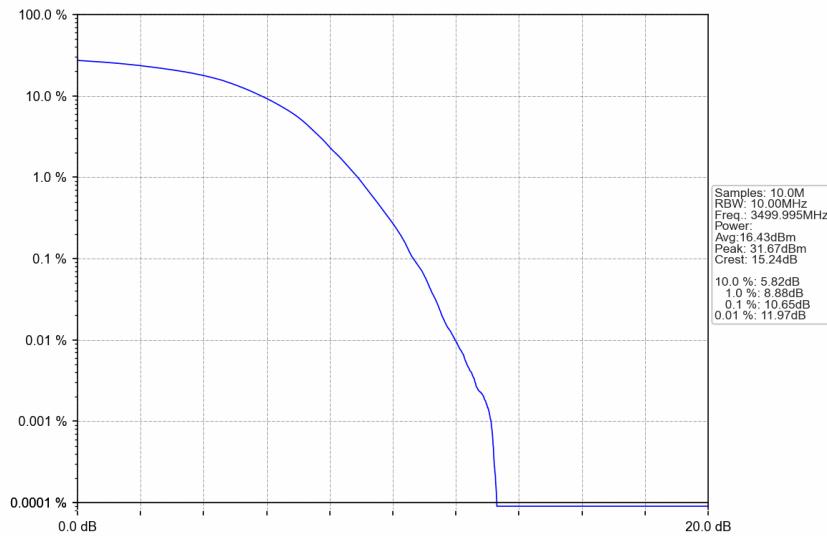
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n77d\_15kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM 256 QAM\_3455.01MHz\_Outer\_Full



n77d\_15kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM 256 QAM\_3499.995MHz\_Outer\_Full



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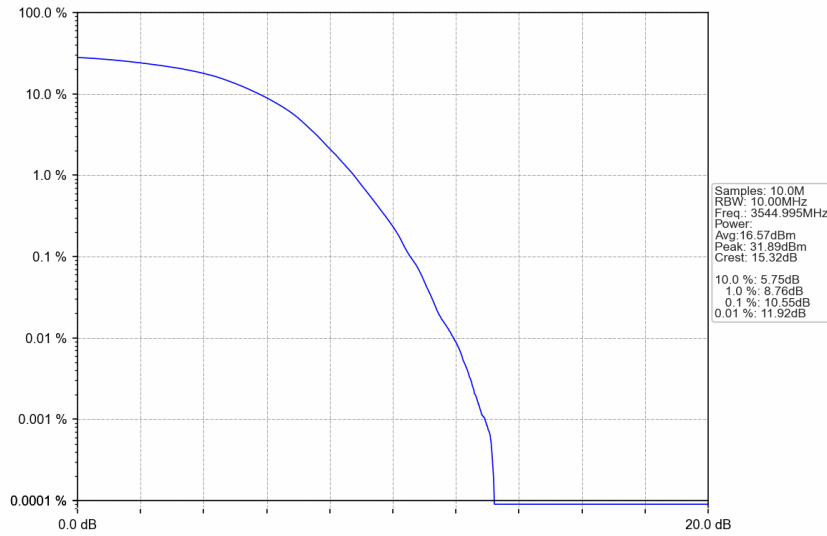
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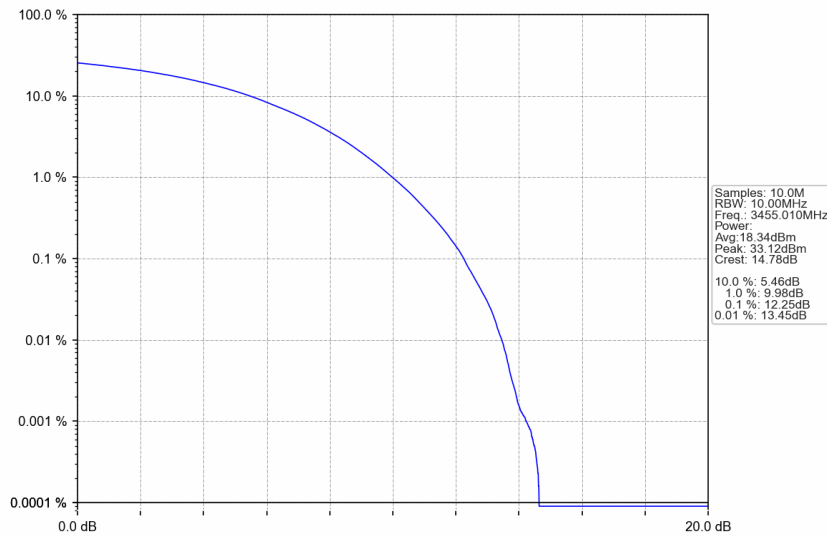
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n77d\_15kHz\_SISO\_NTNV\_10MHz\_CP-OFDM QPSK\_3455.01MHz\_Outer\_Full



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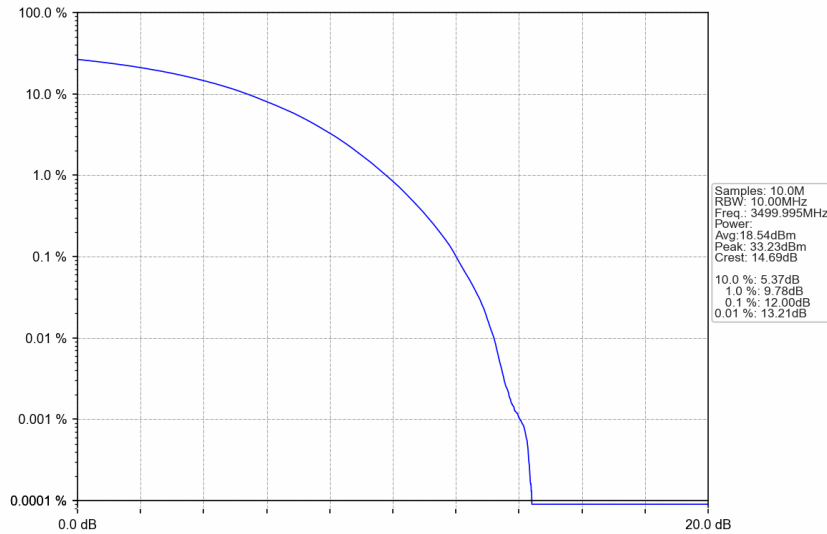
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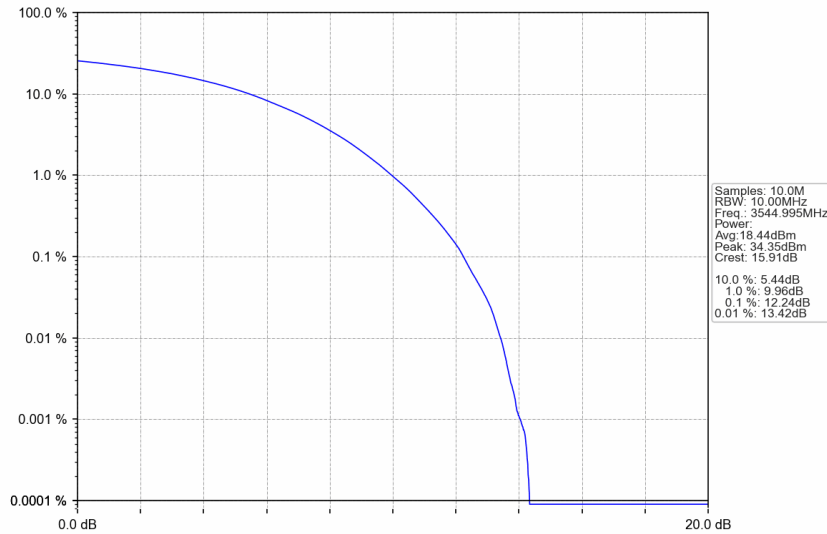
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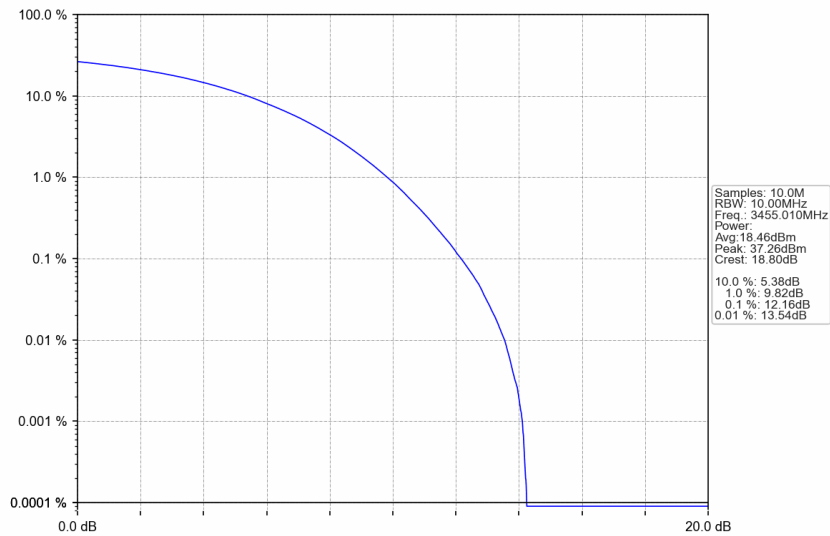
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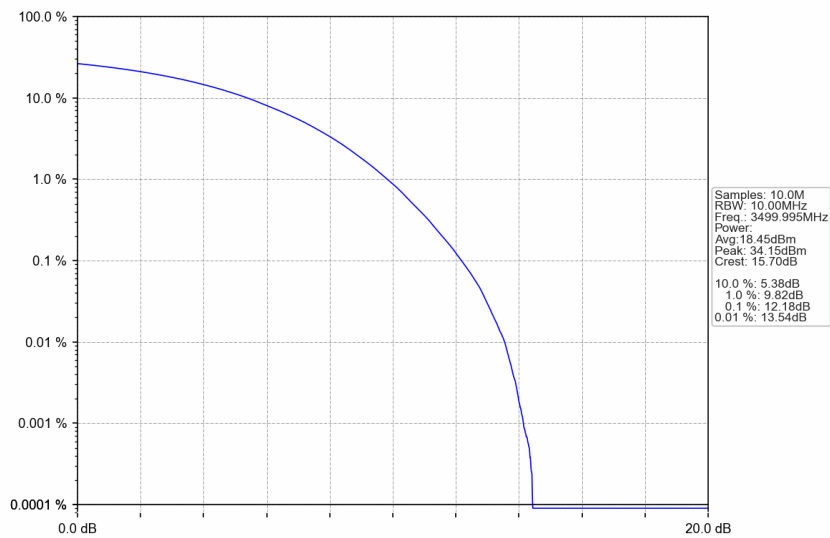
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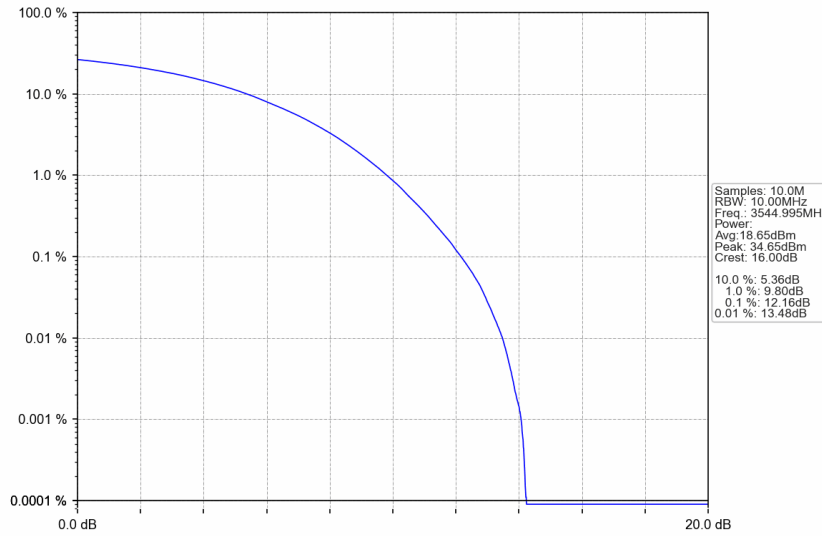


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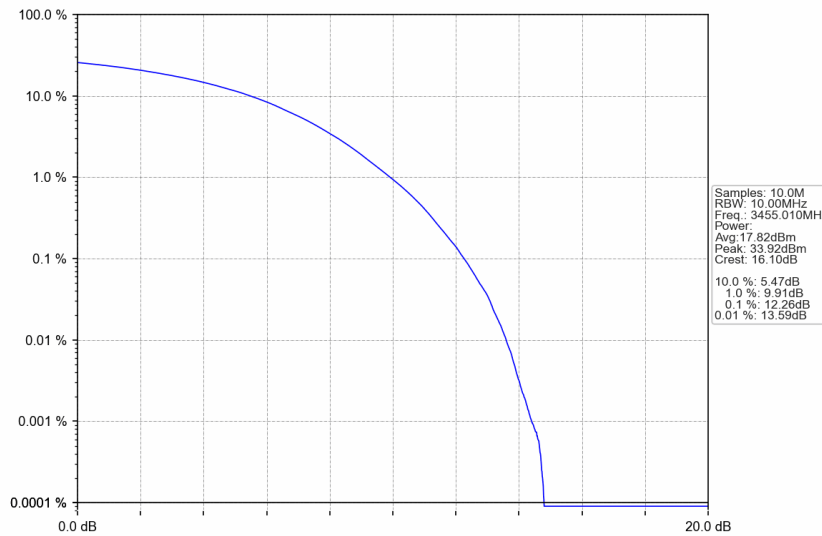
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n77d\_15kHz\_SISO\_NTNV\_10MHz\_CP-OFDM 64 QAM\_3455.01MHz\_Outer\_Full

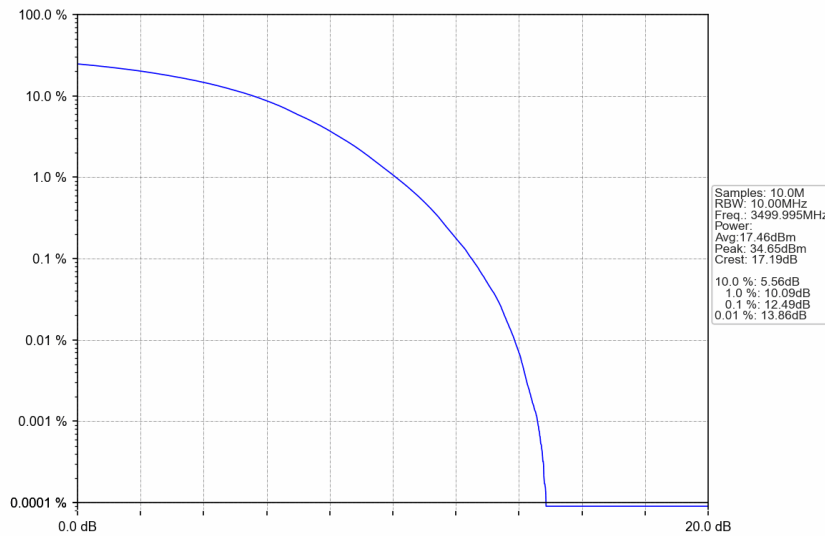


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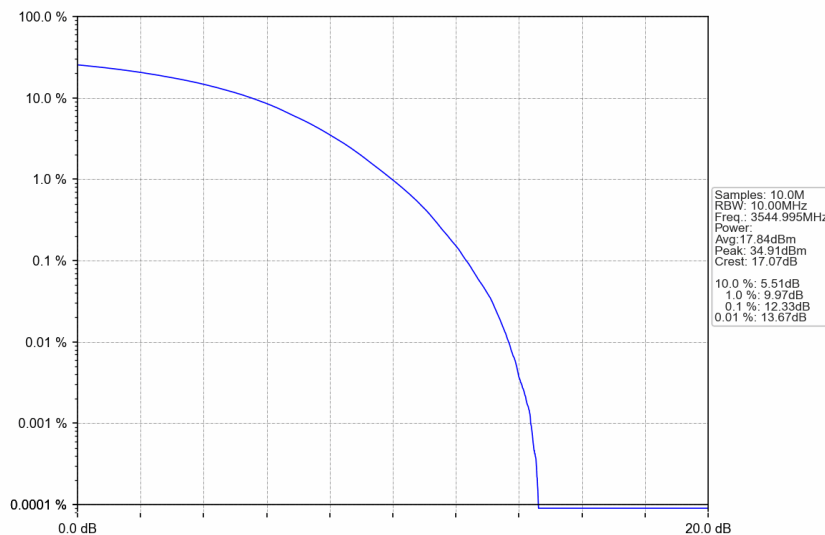
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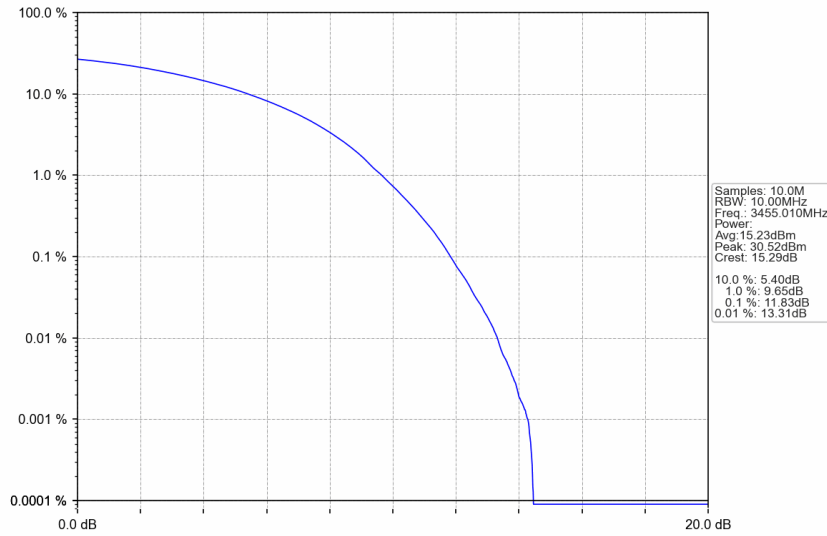


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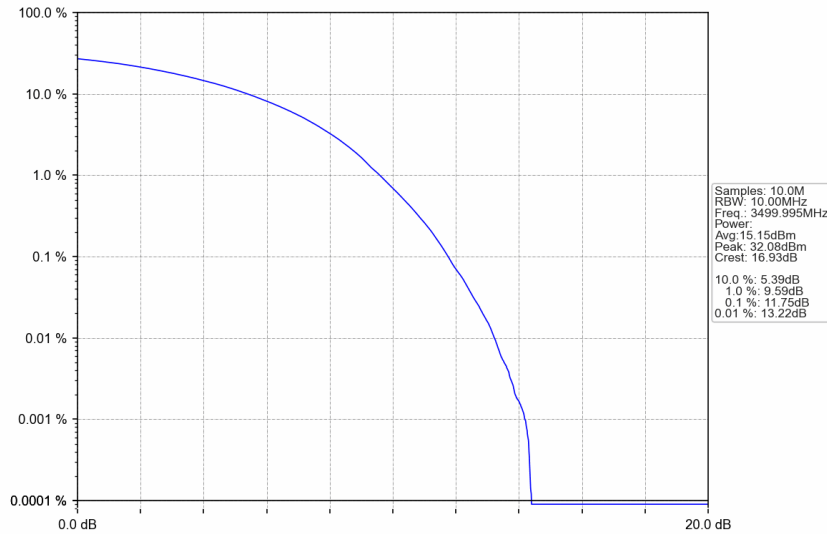
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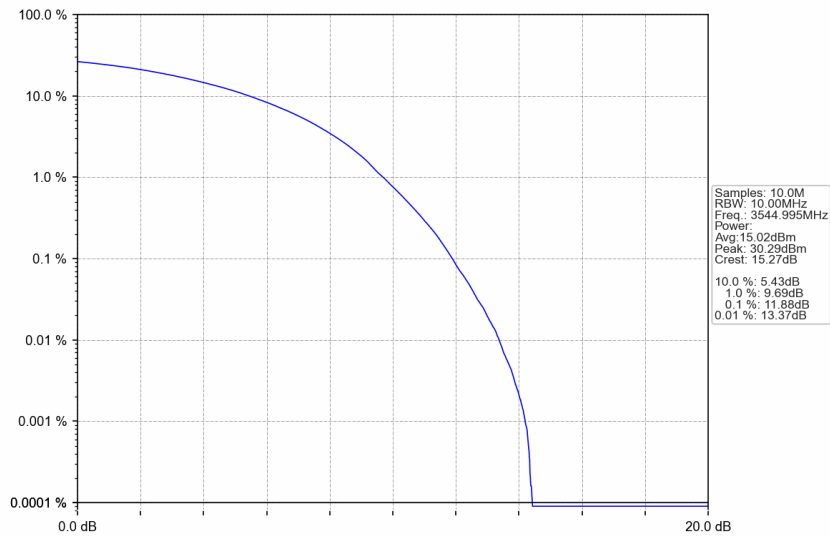


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5.2 15k\_SISO\_15MHz\_NTNV

5.2.1 Test Result

| 5G NR n77d SCS=15kHz SISO 15MHz NTNv |                 |               |                         |      |     |       |         |
|--------------------------------------|-----------------|---------------|-------------------------|------|-----|-------|---------|
| Modulation                           | Frequency (MHz) | RB Allocation | Peak-Average Ratio (dB) |      |     |       | Verdict |
|                                      |                 |               | Ant5                    | Ant2 | Sum | Limit |         |
| DFT-s-OFDM PI/2 BPSK                 | 3457.5          | Outer_Full    | 8.67                    | /    | /   | <=13  | Pass    |
|                                      | 3499.995        | Outer_Full    | 8.56                    | /    | /   | <=13  | Pass    |
|                                      | 3542.49         | Outer_Full    | 8.62                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM QPSK                      | 3457.5          | Outer_Full    | 9.50                    | /    | /   | <=13  | Pass    |
|                                      | 3499.995        | Outer_Full    | 9.52                    | /    | /   | <=13  | Pass    |
|                                      | 3542.49         | Outer_Full    | 9.46                    | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 16 QAM                    | 3457.5          | Outer_Full    | 10.69                   | /    | /   | <=13  | Pass    |
|                                      | 3499.995        | Outer_Full    | 10.77                   | /    | /   | <=13  | Pass    |
|                                      | 3542.49         | Outer_Full    | 10.76                   | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 64 QAM                    | 3457.5          | Outer_Full    | 10.53                   | /    | /   | <=13  | Pass    |
|                                      | 3499.995        | Outer_Full    | 10.10                   | /    | /   | <=13  | Pass    |
|                                      | 3542.49         | Outer_Full    | 10.17                   | /    | /   | <=13  | Pass    |
| DFT-s-OFDM 256 QAM                   | 3457.5          | Outer_Full    | 10.62                   | /    | /   | <=13  | Pass    |
|                                      | 3499.995        | Outer_Full    | 9.91                    | /    | /   | <=13  | Pass    |
|                                      | 3542.49         | Outer_Full    | 10.64                   | /    | /   | <=13  | Pass    |
| CP-OFDM QPSK                         | 3457.5          | Outer_Full    | 12.14                   | /    | /   | <=13  | Pass    |
|                                      | 3499.995        | Outer_Full    | 11.95                   | /    | /   | <=13  | Pass    |
|                                      | 3542.49         | Outer_Full    | 12.22                   | /    | /   | <=13  | Pass    |
| CP-OFDM 16 QAM                       | 3457.5          | Outer_Full    | 12.42                   | /    | /   | <=13  | Pass    |
|                                      | 3499.995        | Outer_Full    | 12.32                   | /    | /   | <=13  | Pass    |
|                                      | 3542.49         | Outer_Full    | 12.06                   | /    | /   | <=13  | Pass    |
| CP-OFDM 64 QAM                       | 3457.5          | Outer_Full    | 12.02                   | /    | /   | <=13  | Pass    |
|                                      | 3499.995        | Outer_Full    | 12.19                   | /    | /   | <=13  | Pass    |
|                                      | 3542.49         | Outer_Full    | 12.02                   | /    | /   | <=13  | Pass    |
| CP-OFDM 256 QAM                      | 3457.5          | Outer_Full    | 12.12                   | /    | /   | <=13  | Pass    |
|                                      | 3499.995        | Outer_Full    | 11.96                   | /    | /   | <=13  | Pass    |
|                                      | 3542.49         | Outer_Full    | 11.76                   | /    | /   | <=13  | Pass    |

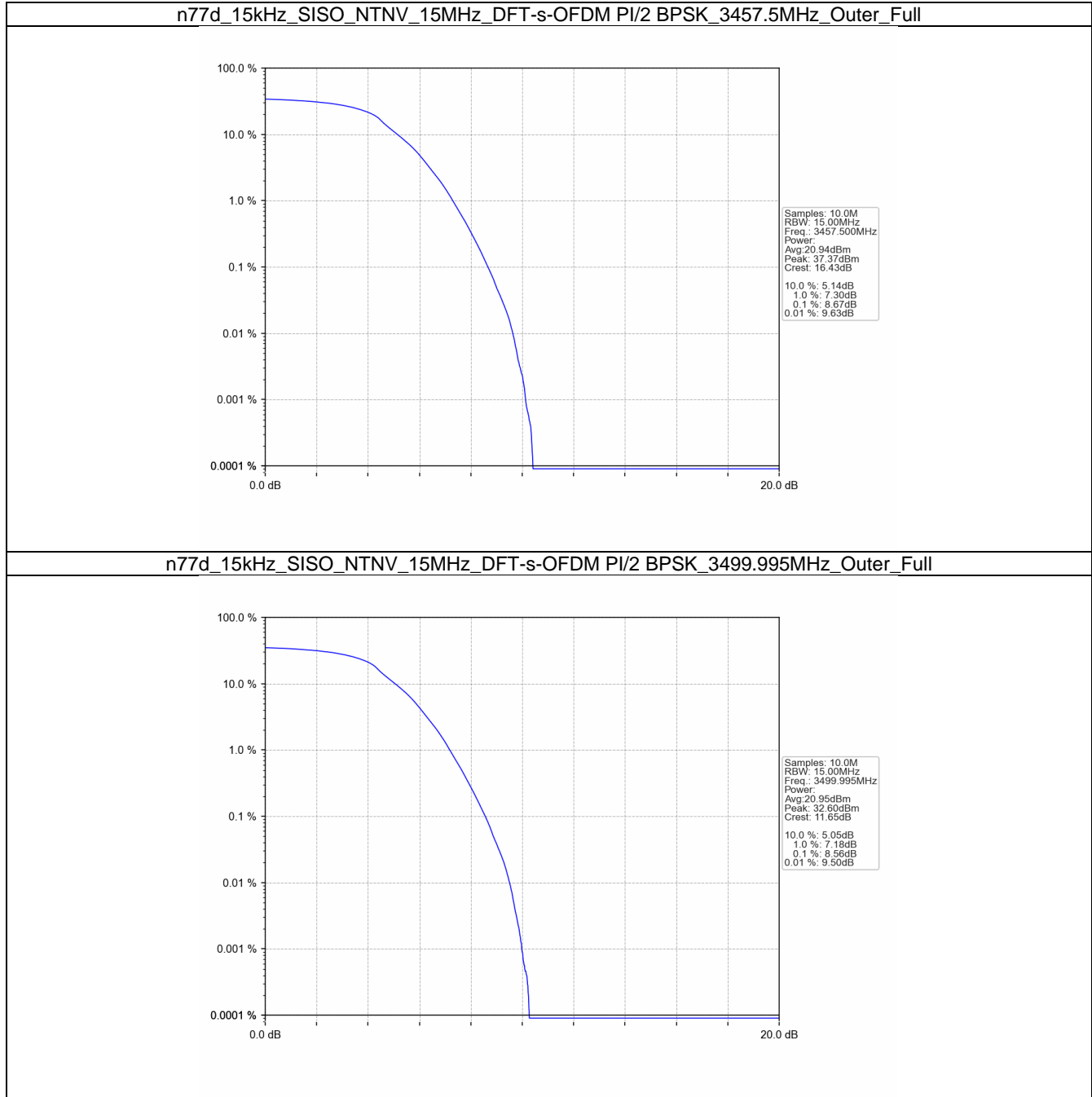


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5.2.2 Test Graph

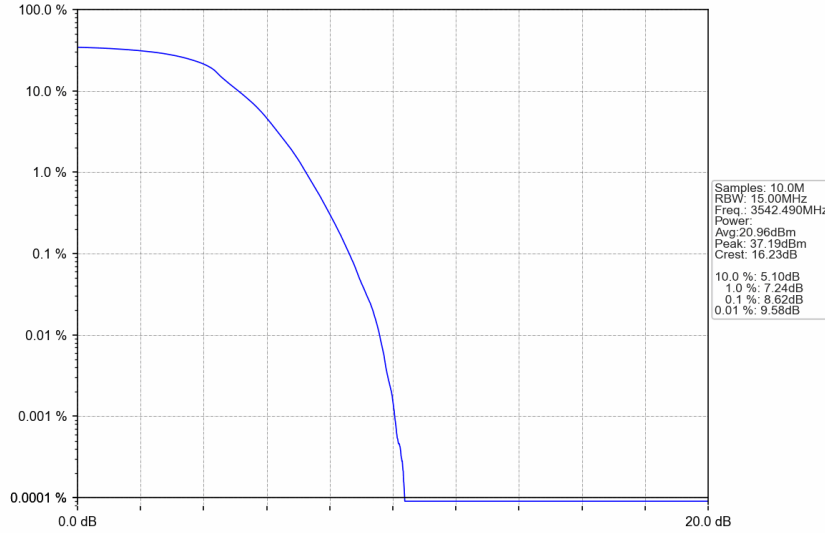


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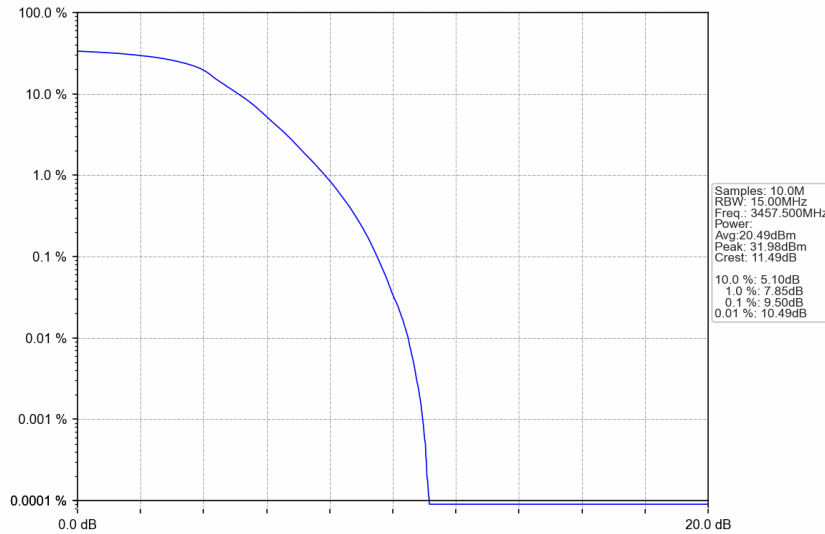
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n77d\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM PI/2 BPSK\_3542.49MHz\_Outer\_Full



n77d\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM QPSK\_3457.5MHz\_Outer\_Full

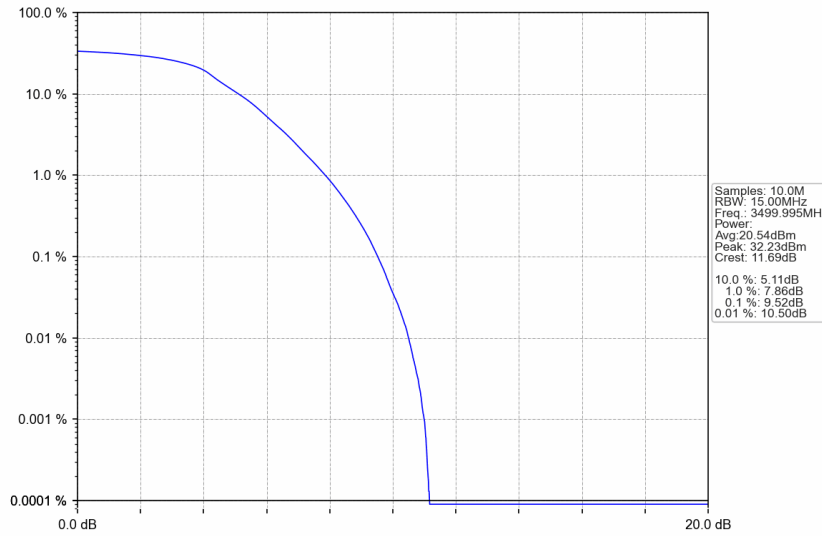


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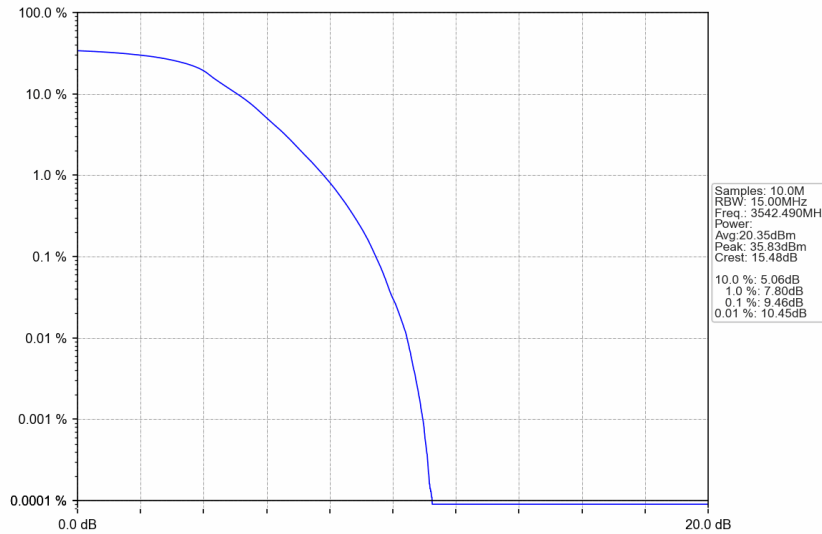
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n77d\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM QPSK\_3499.995MHz\_Outer\_Full



n77d\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM QPSK\_3542.49MHz\_Outer\_Full

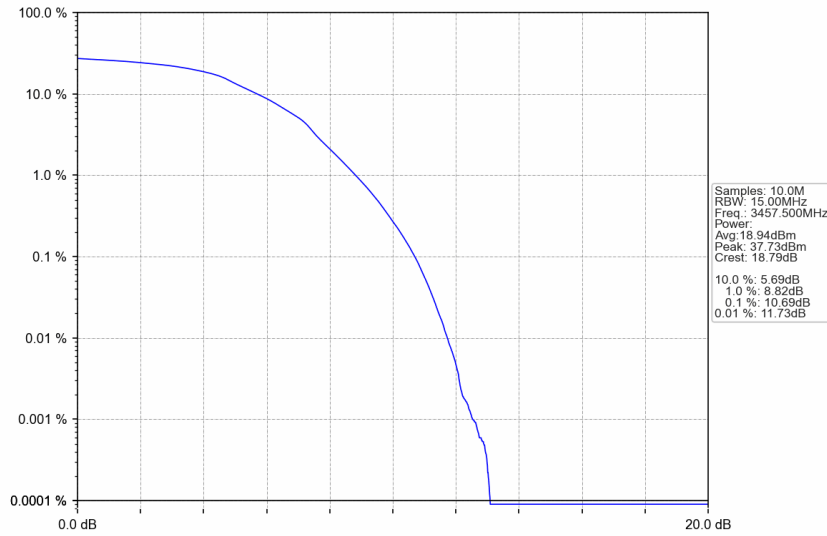


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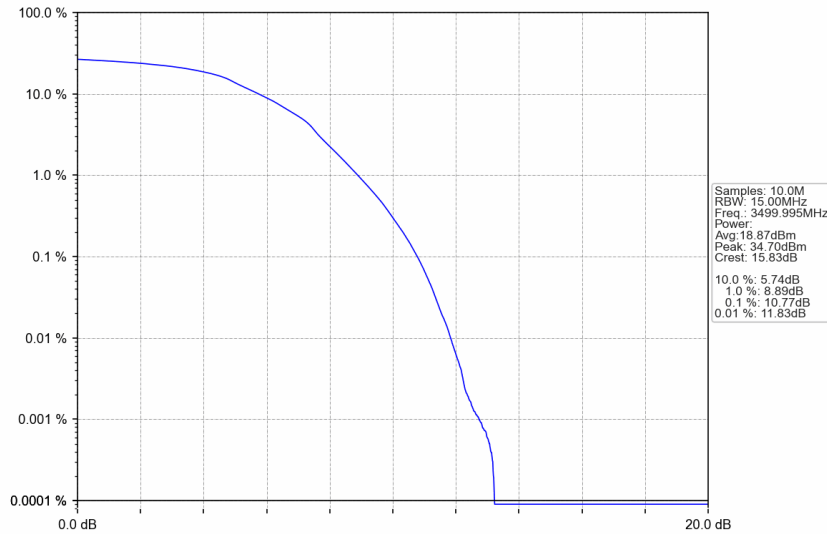
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n77d\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM 16 QAM\_3457.5MHz\_Outer\_Full



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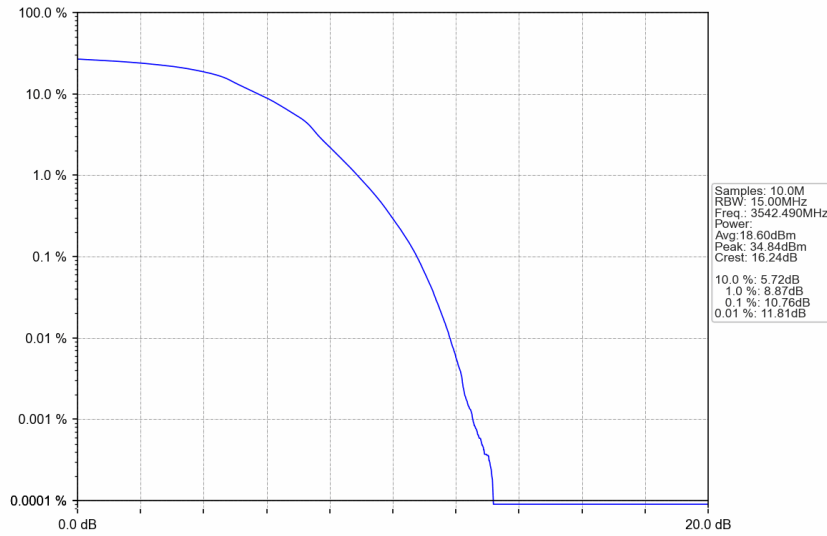


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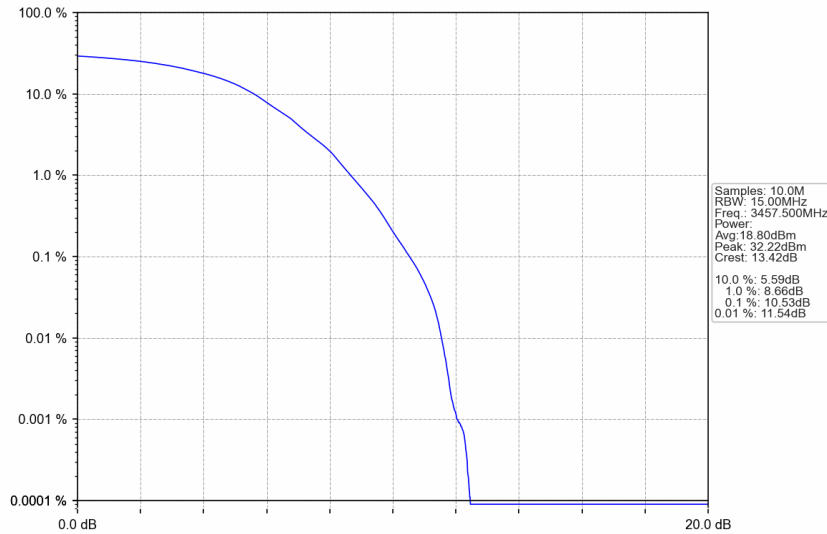
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n77d\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM 16 QAM\_3542.49MHz\_Outer\_Full



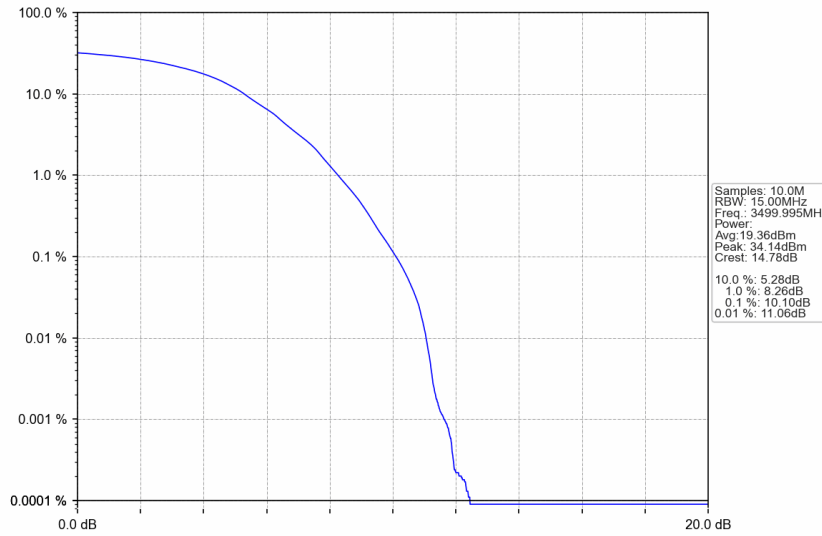
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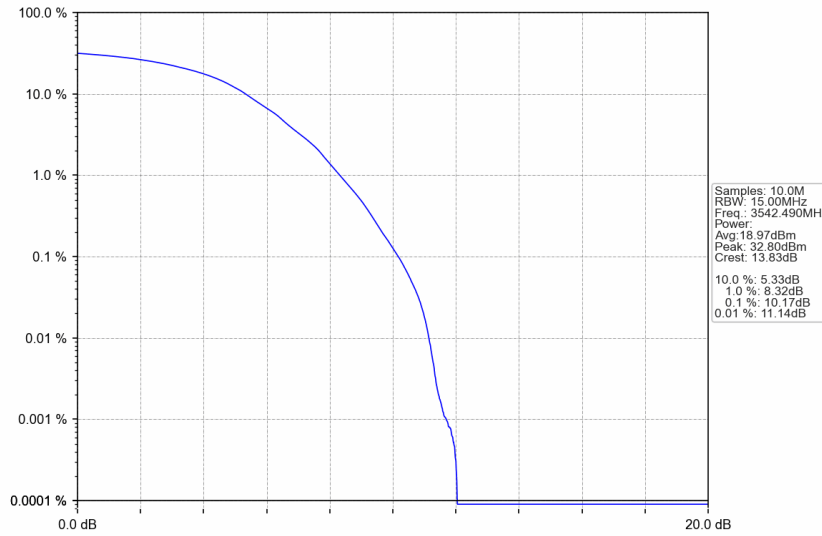
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n77d\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM 64 QAM\_3499.995MHz\_Outer\_Full



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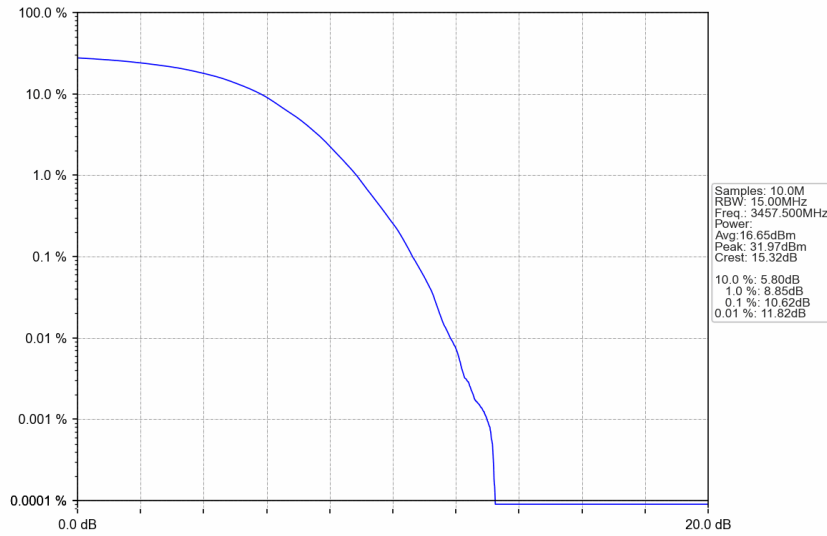


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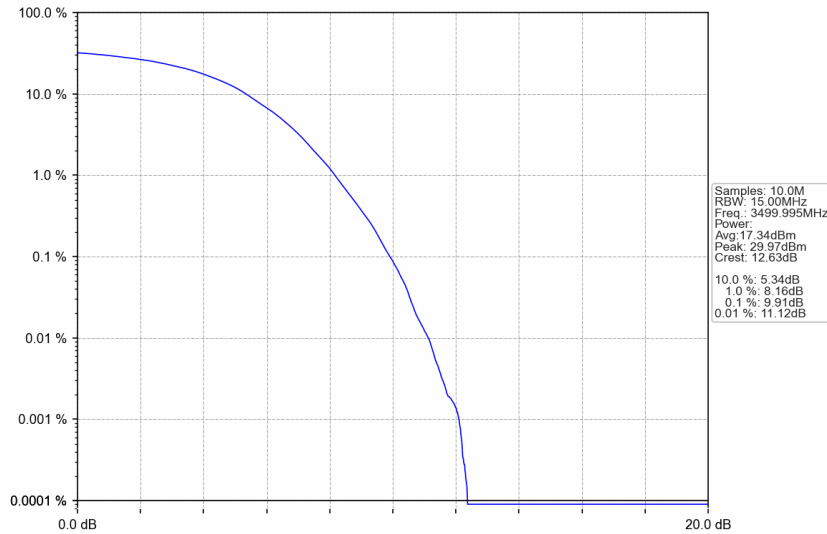
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n77d\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM 256 QAM\_3457.5MHz\_Outer\_Full



n77d\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM 256 QAM\_3499.995MHz\_Outer\_Full



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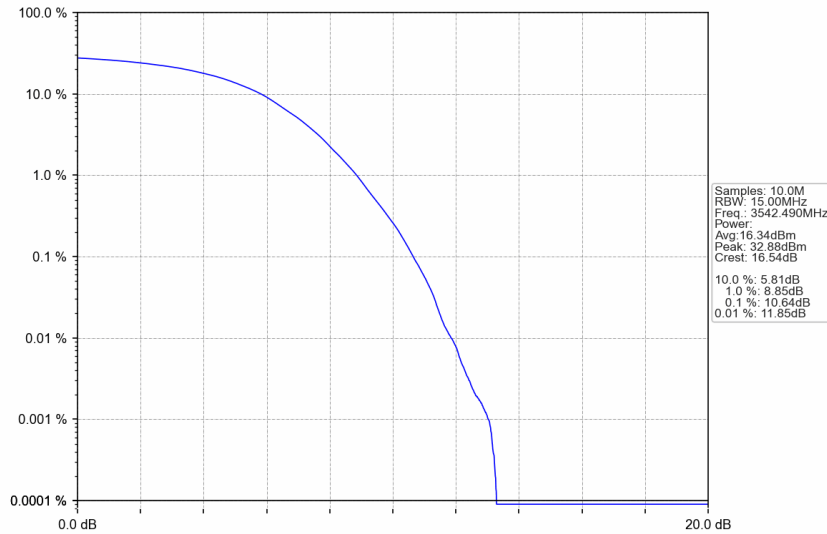
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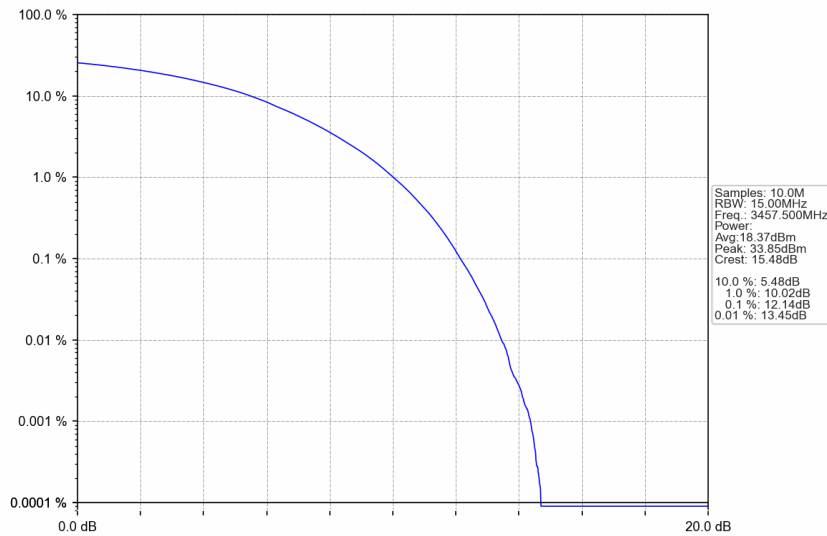
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n77d\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM 256 QAM\_3542.49MHz\_Outer\_Full



n77d\_15kHz\_SISO\_NTNV\_15MHz\_CP-OFDM QPSK\_3457.5MHz\_Outer\_Full

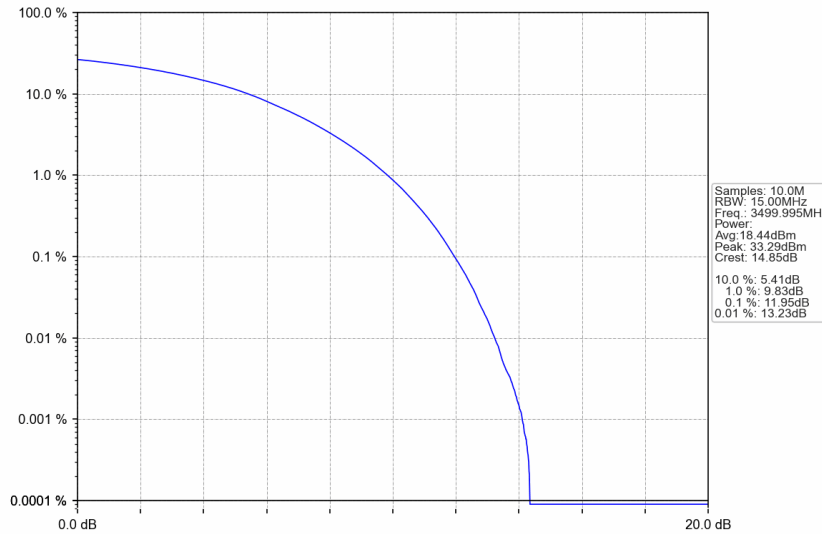


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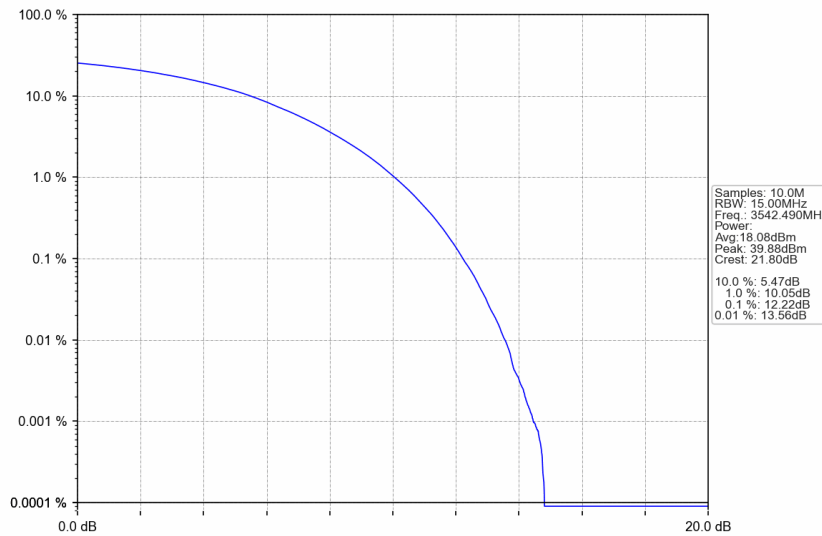
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n77d\_15kHz\_SISO\_NTNV\_15MHz\_CP-OFDM QPSK\_3499.995MHz\_Outer\_Full



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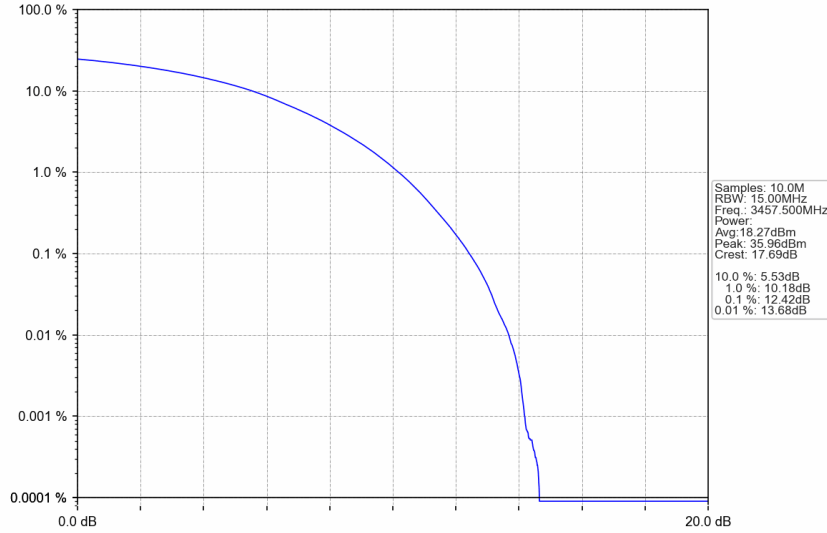
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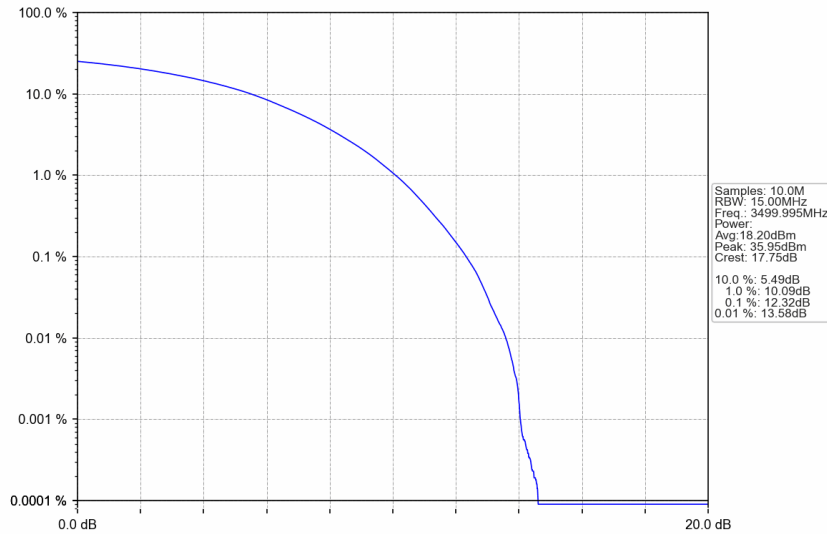
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n77d\_15kHz\_SISO\_NTNV\_15MHz\_CP-OFDM 16 QAM\_3457.5MHz\_Outer\_Full



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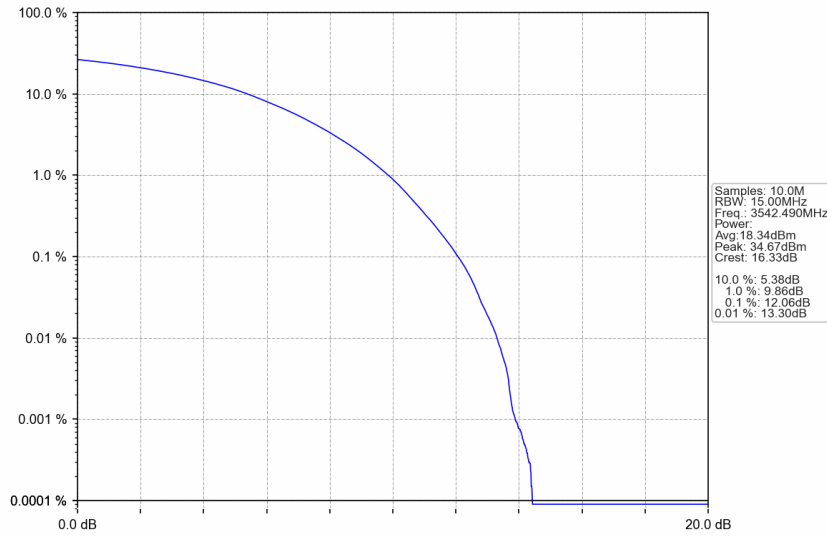


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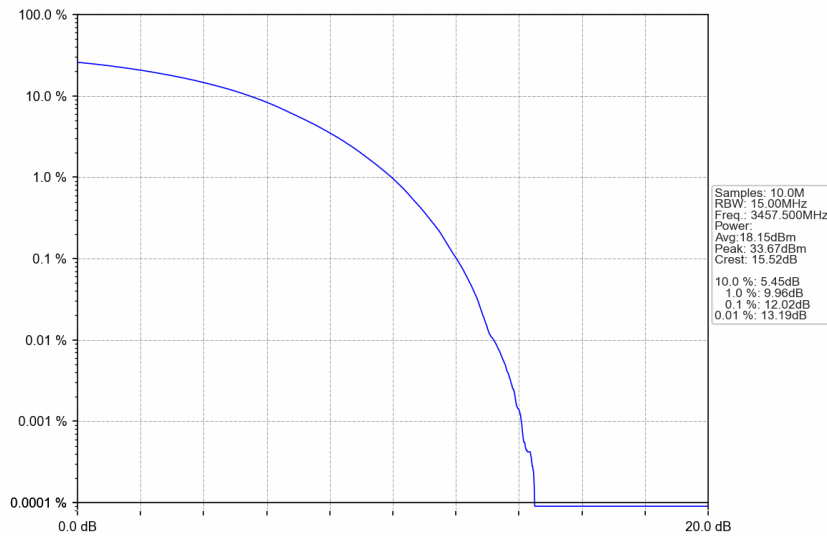
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n77d\_15kHz\_SISO\_NTV\_15MHz\_CP-OFDM 16 QAM\_3542.49MHz\_Outer\_Full



n77d\_15kHz\_SISO\_NTV\_15MHz\_CP-OFDM 64 QAM\_3457.5MHz\_Outer\_Full



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