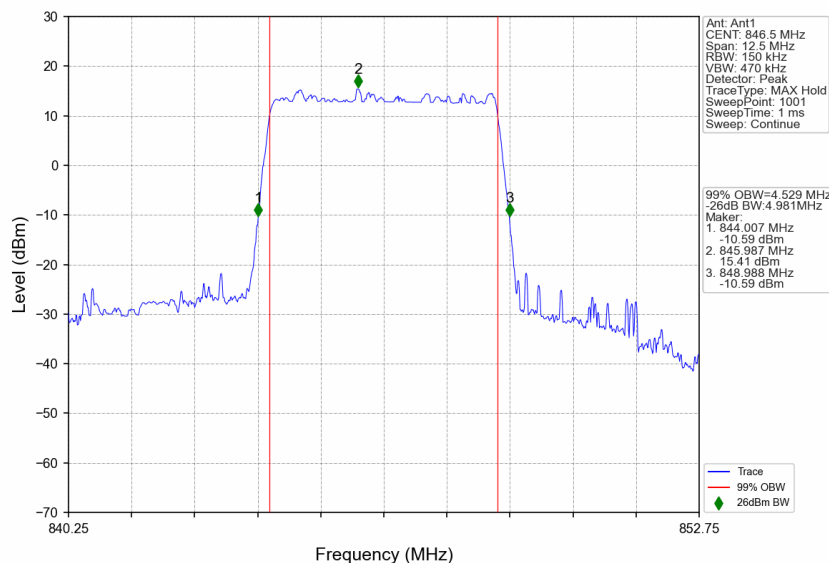


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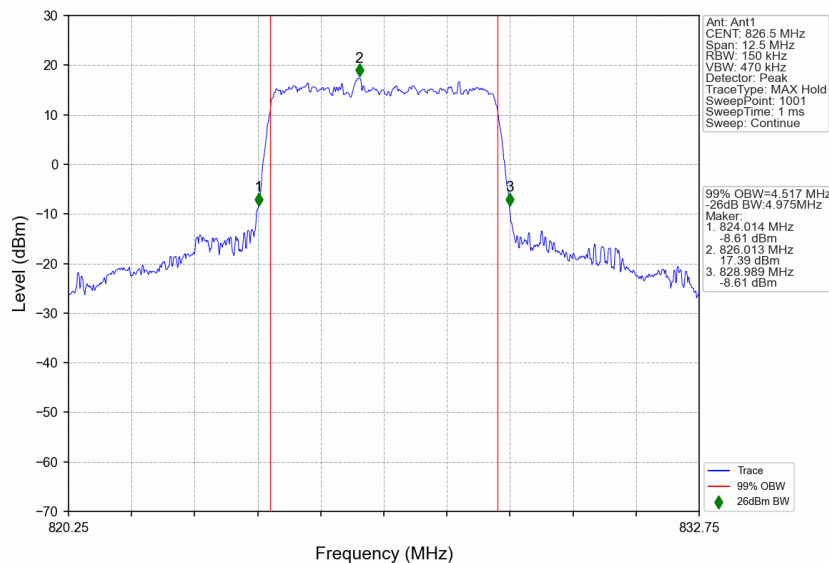
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n5\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM 256 QAM\_846.5MHz\_Outer\_Full



n5\_15kHz\_SISO\_NTNV\_5MHz\_CP-OFDM QPSK\_826.5MHz\_Outer\_Full



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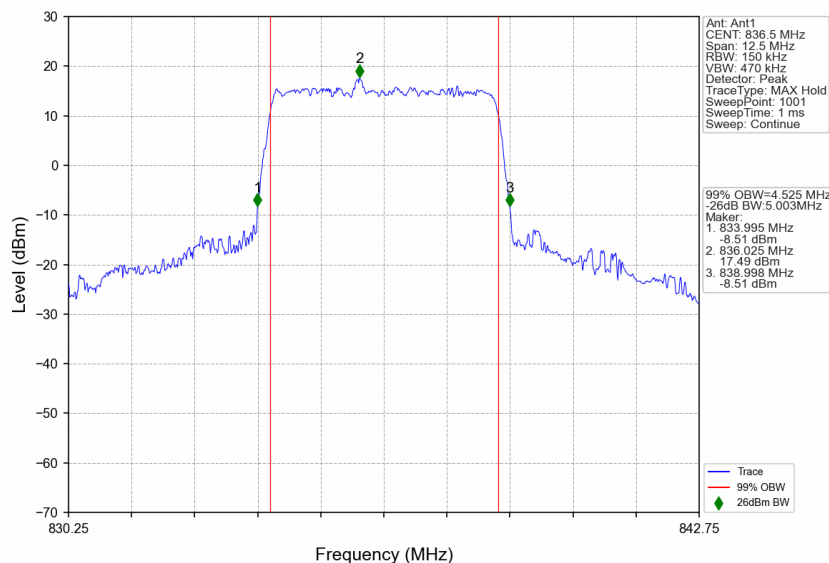
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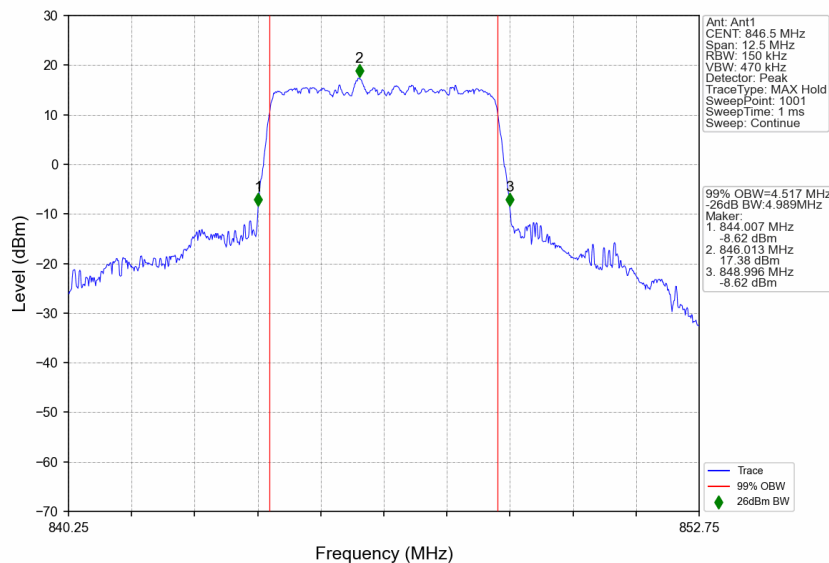
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n5\_15kHz\_SISO\_NTNV\_5MHz\_CP-OFDM QPSK\_836.5MHz\_Outer\_Full



n5\_15kHz\_SISO\_NTNV\_5MHz\_CP-OFDM QPSK\_846.5MHz\_Outer\_Full



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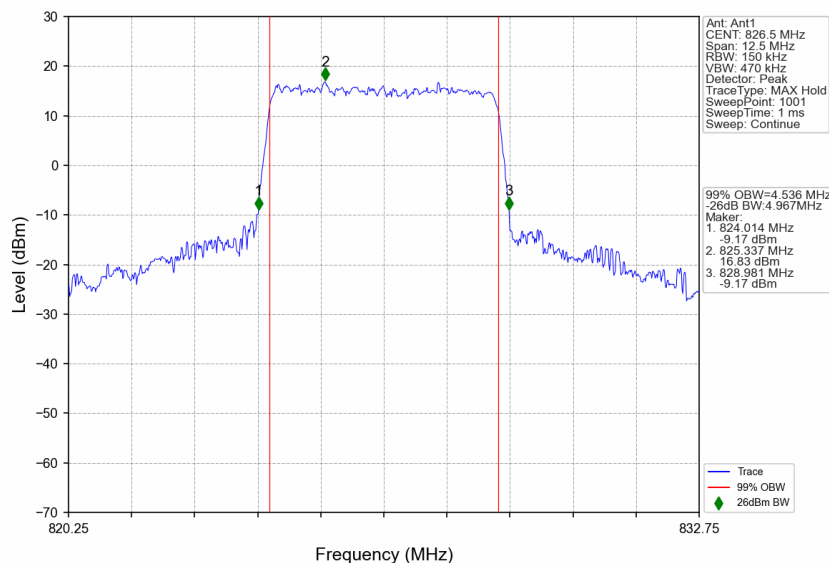
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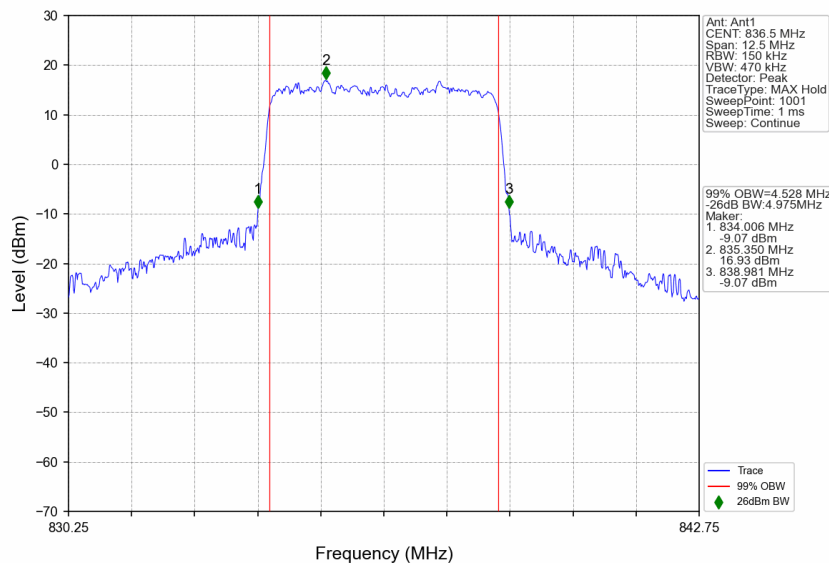
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n5\_15kHz\_SISO\_NTNV\_5MHz\_CP-OFDM\_16\_QAM\_826.5MHz\_Outer\_Full



n5\_15kHz\_SISO\_NTNV\_5MHz\_CP-OFDM\_16\_QAM\_836.5MHz\_Outer\_Full



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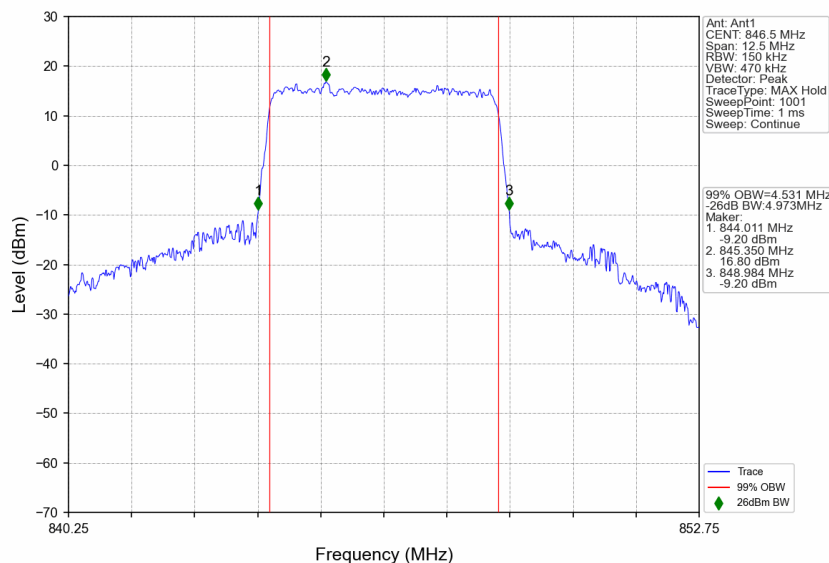
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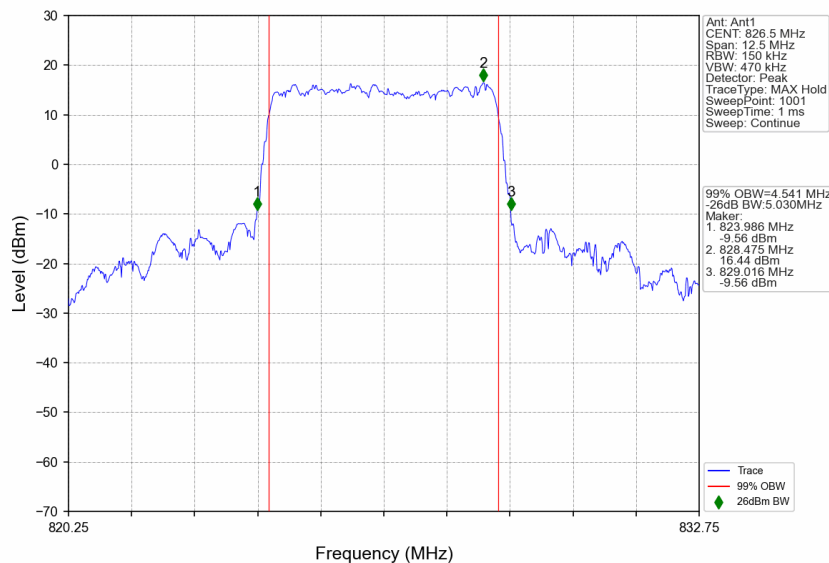
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n5\_15kHz\_SISO\_NTNV\_5MHz\_CP-OFDM 16 QAM\_846.5MHz\_Outer\_Full



n5\_15kHz\_SISO\_NTNV\_5MHz\_CP-OFDM 64 QAM\_826.5MHz\_Outer\_Full



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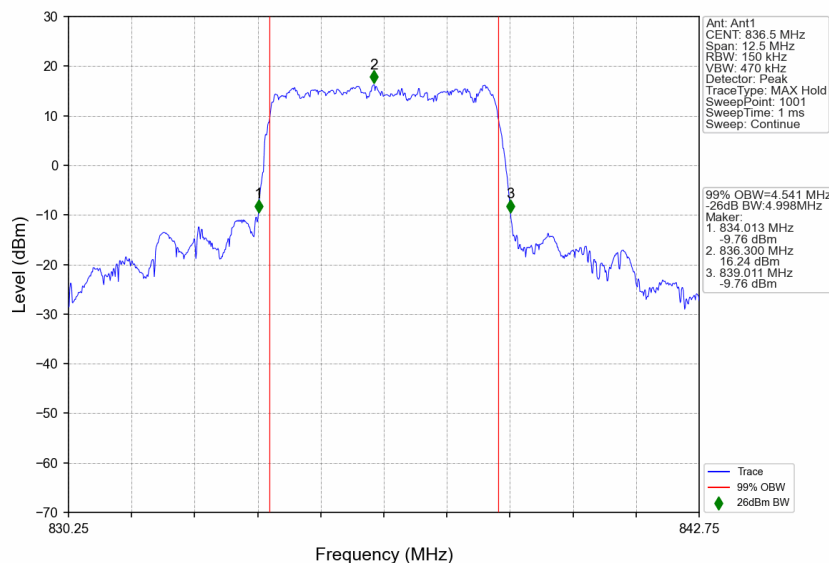
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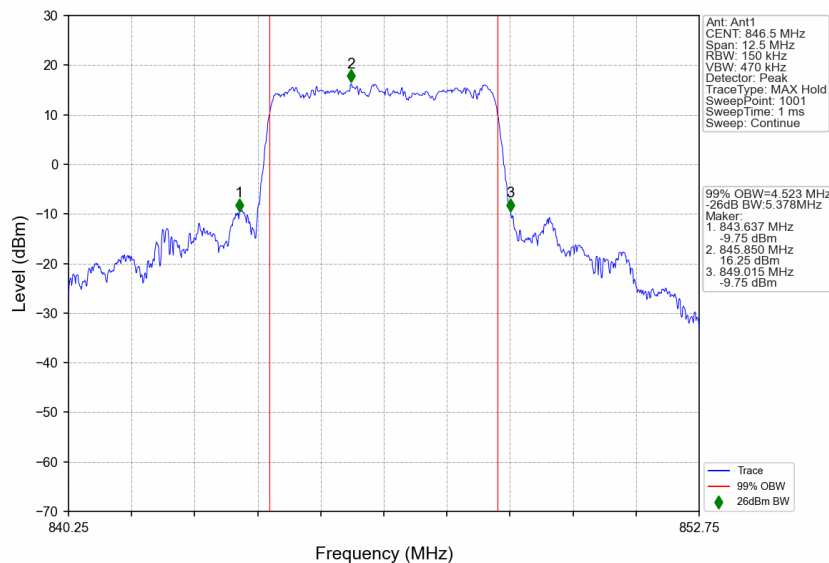
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n5\_15kHz\_SISO\_NTNV\_5MHz\_CP-OFDM\_64\_QAM\_836.5MHz\_Outer\_Full



n5\_15kHz\_SISO\_NTNV\_5MHz\_CP-OFDM\_64\_QAM\_846.5MHz\_Outer\_Full



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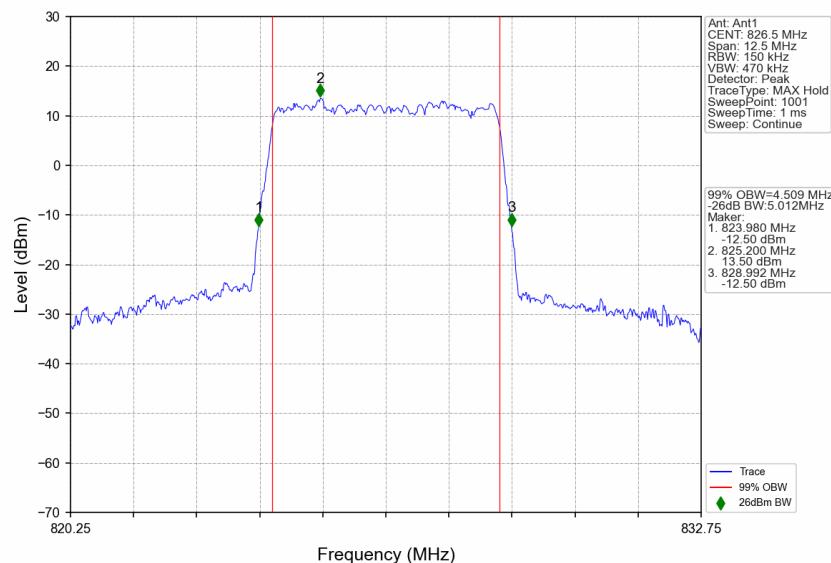
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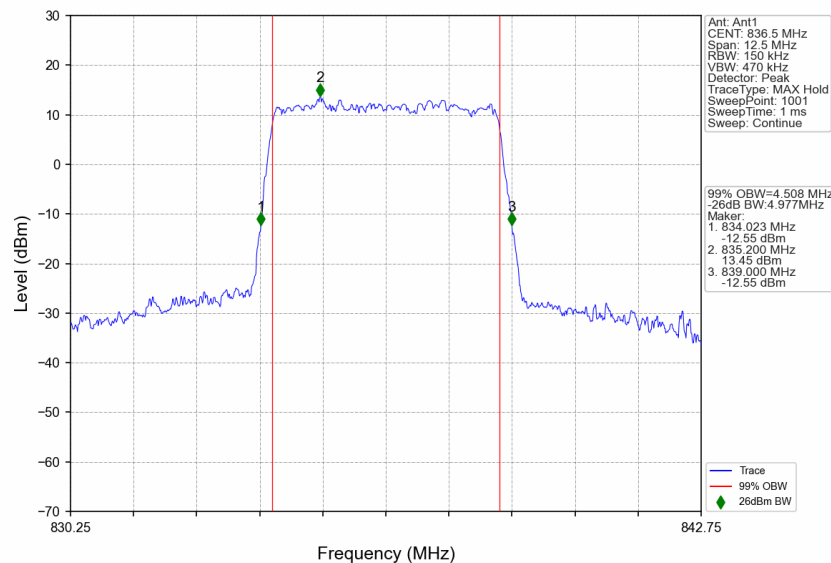
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n5\_15kHz\_SISO\_NTNV\_5MHz\_CP-OFDM\_256\_QAM\_826.5MHz\_Outer\_Full



n5\_15kHz\_SISO\_NTNV\_5MHz\_CP-OFDM\_256\_QAM\_836.5MHz\_Outer\_Full



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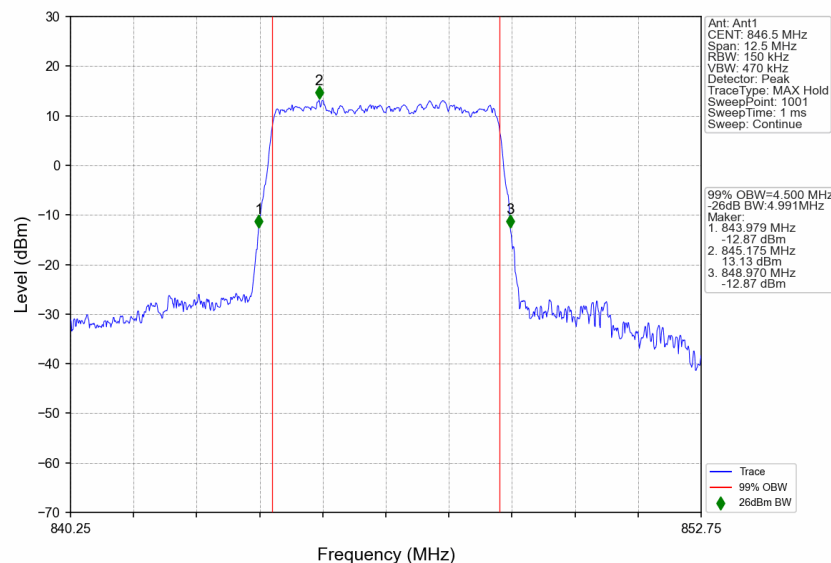
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## 4.2 15k\_SISO\_10MHz\_NTNV

## 4.2.1 Test Result

| 5G NR n5 SCS=15kHz SISO 10MHz NTN |                 |               |                     |                      |             |         |
|-----------------------------------|-----------------|---------------|---------------------|----------------------|-------------|---------|
| Modulation                        | Frequency (MHz) | RB Allocation | 99% Bandwidth (MHz) | 26dB Bandwidth (MHz) | Limit (MHz) | Verdict |
| DFT-s-OFDM PI/2 BPSK              | 829             | Outer Full    | 9.10                | 9.79                 | /           | Pass    |
|                                   | 836.5           | Outer Full    | 9.09                | 9.78                 | /           | Pass    |
|                                   | 844             | Outer Full    | 9.07                | 9.77                 | /           | Pass    |
| DFT-s-OFDM QPSK                   | 829             | Outer Full    | 9.03                | 9.68                 | /           | Pass    |
|                                   | 836.5           | Outer Full    | 9.03                | 9.68                 | /           | Pass    |
|                                   | 844             | Outer Full    | 9.03                | 9.69                 | /           | Pass    |
| DFT-s-OFDM 16 QAM                 | 829             | Outer Full    | 9.02                | 9.72                 | /           | Pass    |
|                                   | 836.5           | Outer Full    | 9.02                | 9.70                 | /           | Pass    |
|                                   | 844             | Outer Full    | 9.02                | 9.71                 | /           | Pass    |
| DFT-s-OFDM 64 QAM                 | 829             | Outer Full    | 9.05                | 9.75                 | /           | Pass    |
|                                   | 836.5           | Outer Full    | 9.05                | 9.76                 | /           | Pass    |
|                                   | 844             | Outer Full    | 9.05                | 9.75                 | /           | Pass    |
| DFT-s-OFDM 256 QAM                | 829             | Outer Full    | 9.01                | 9.70                 | /           | Pass    |
|                                   | 836.5           | Outer Full    | 9.01                | 9.68                 | /           | Pass    |
|                                   | 844             | Outer Full    | 9.02                | 9.68                 | /           | Pass    |
| CP-OFDM QPSK                      | 829             | Outer Full    | 9.37                | 10.07                | /           | Pass    |
|                                   | 836.5           | Outer Full    | 9.36                | 10.09                | /           | Pass    |
|                                   | 844             | Outer Full    | 9.36                | 10.07                | /           | Pass    |
| CP-OFDM 16 QAM                    | 829             | Outer Full    | 9.40                | 10.12                | /           | Pass    |
|                                   | 836.5           | Outer Full    | 9.39                | 10.21                | /           | Pass    |
|                                   | 844             | Outer Full    | 9.39                | 10.11                | /           | Pass    |
| CP-OFDM 64 QAM                    | 829             | Outer Full    | 9.41                | 10.08                | /           | Pass    |
|                                   | 836.5           | Outer Full    | 9.40                | 10.08                | /           | Pass    |
|                                   | 844             | Outer Full    | 9.40                | 10.09                | /           | Pass    |
| CP-OFDM 256 QAM                   | 829             | Outer Full    | 9.38                | 10.06                | /           | Pass    |
|                                   | 836.5           | Outer Full    | 9.37                | 10.03                | /           | Pass    |
|                                   | 844             | Outer Full    | 9.39                | 10.07                | /           | Pass    |



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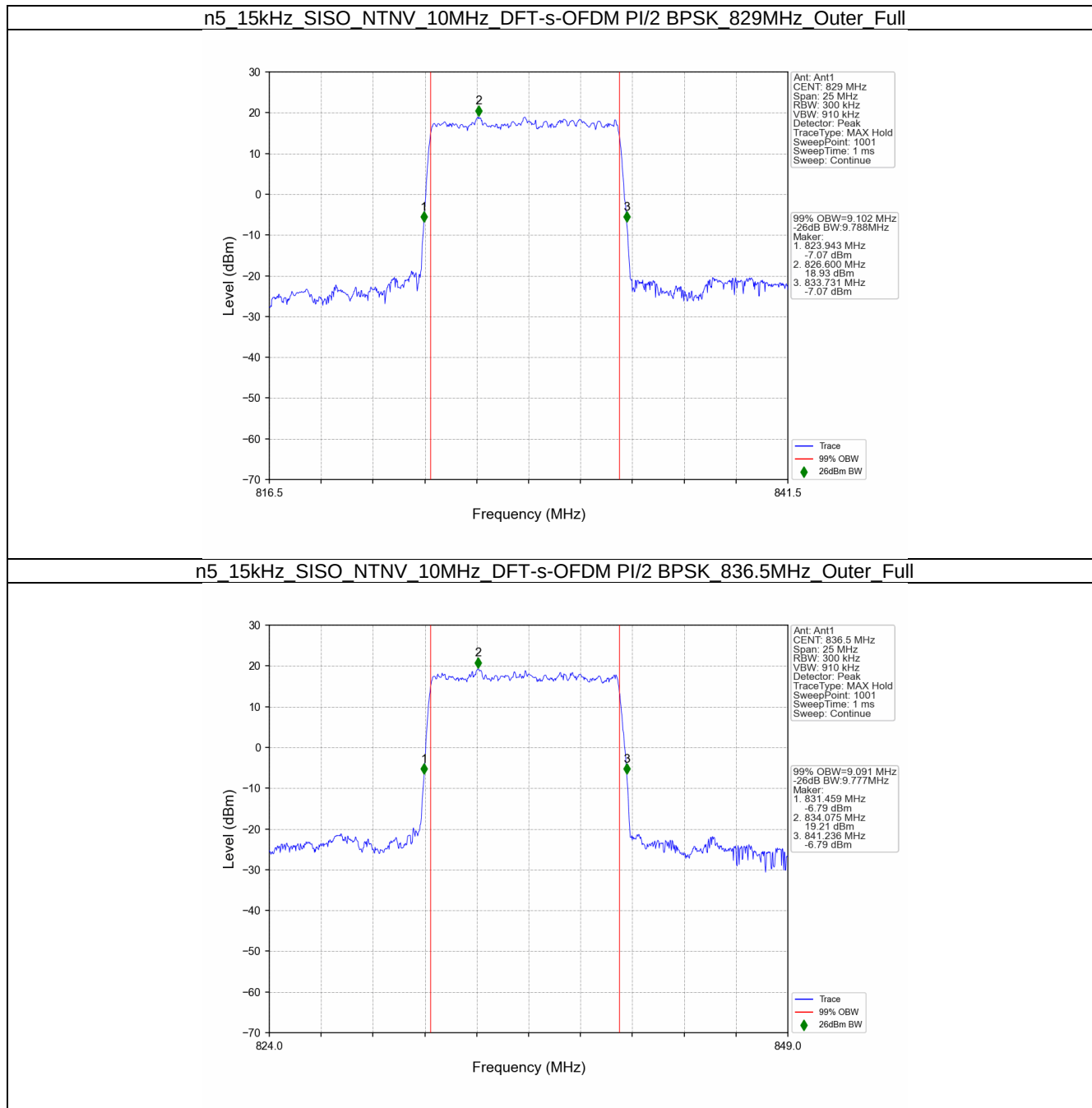
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### 4.2.2 Test Graph



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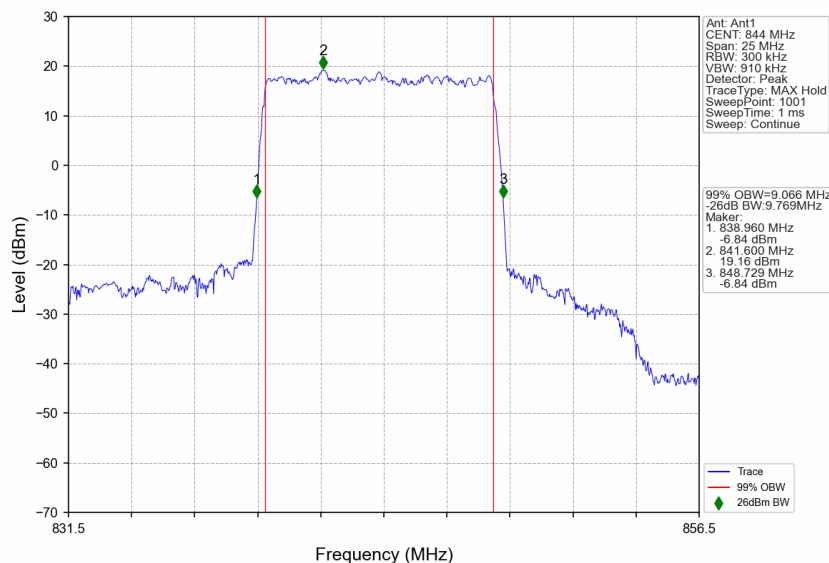
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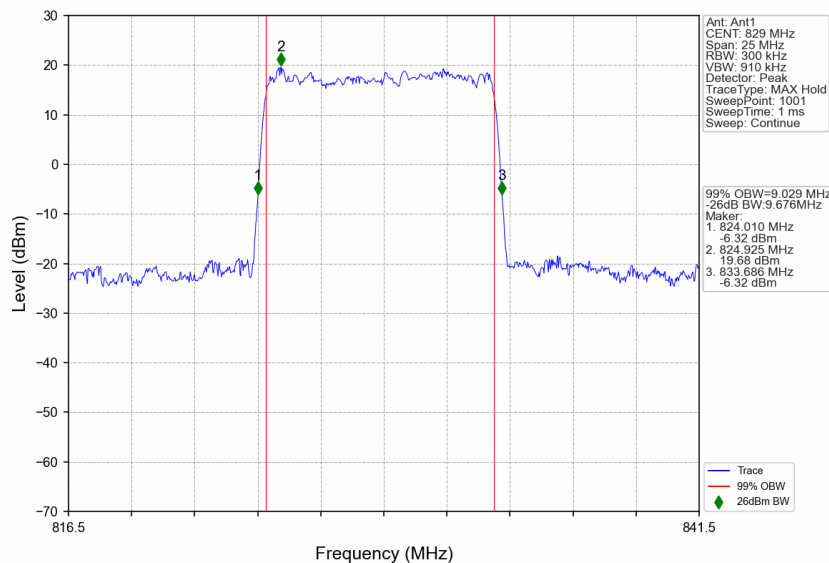
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n5\_15kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM PI/2 BPSK\_844MHz\_Outer\_Full



n5\_15kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM QPSK\_829MHz\_Outer\_Full



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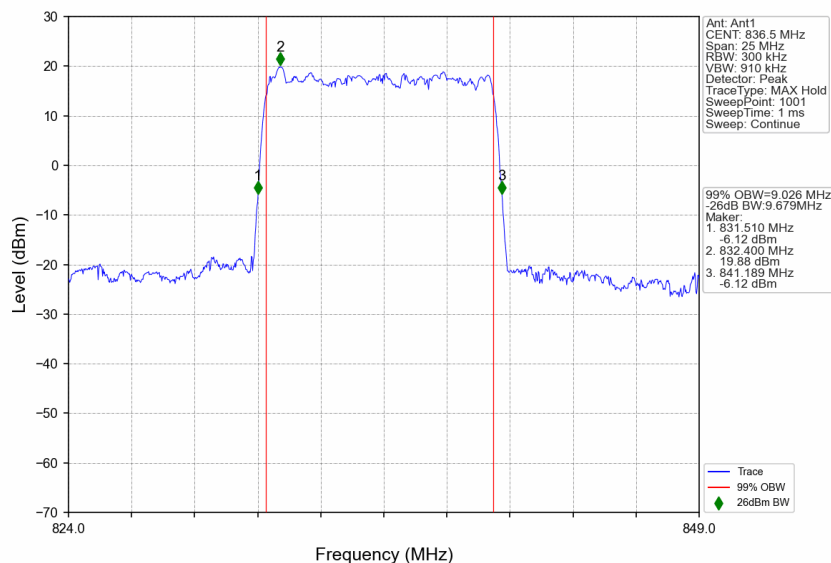
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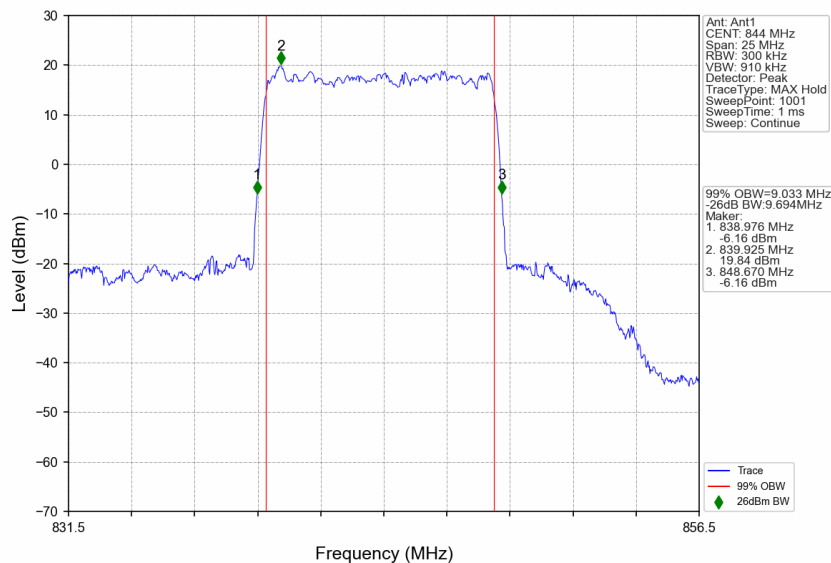
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n5\_15kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM QPSK\_836.5MHz\_Outer\_Full



n5\_15kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM QPSK\_844MHz\_Outer\_Full



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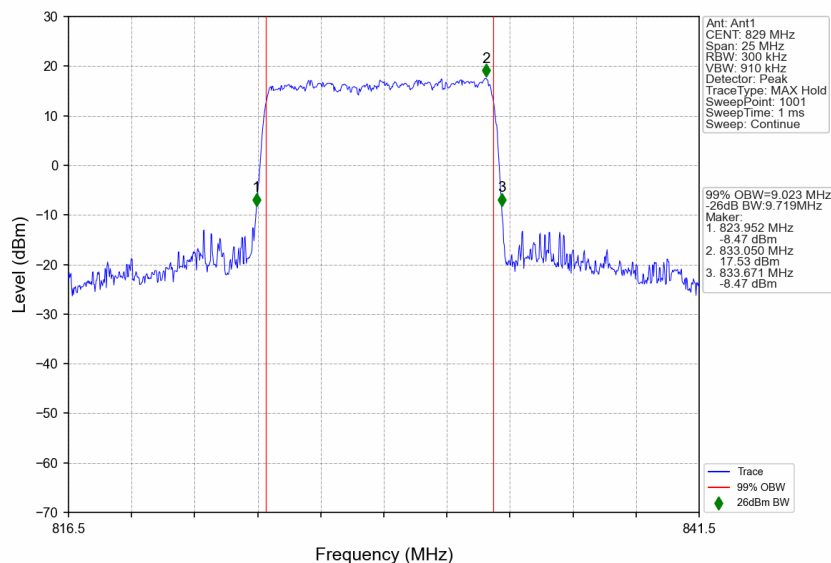
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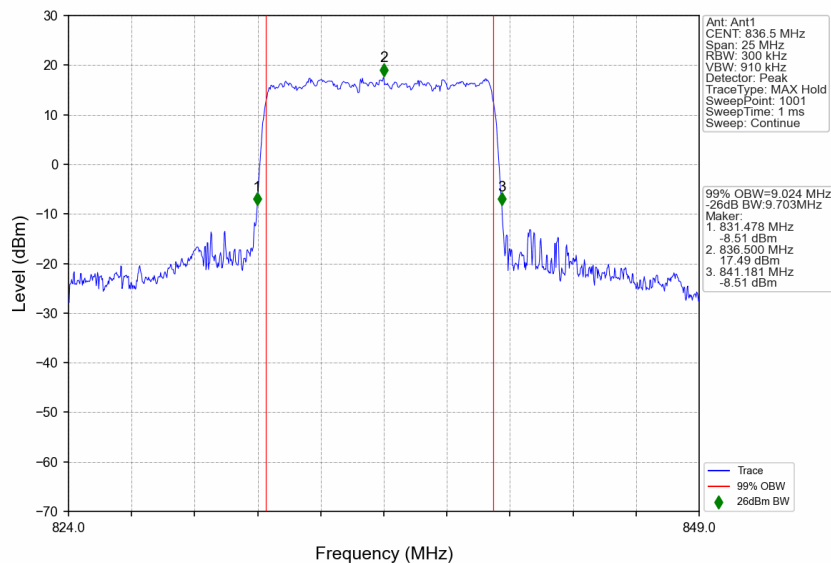
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n5\_15kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM\_16\_QAM\_829MHz\_Outer\_Full



n5\_15kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM\_16\_QAM\_836.5MHz\_Outer\_Full



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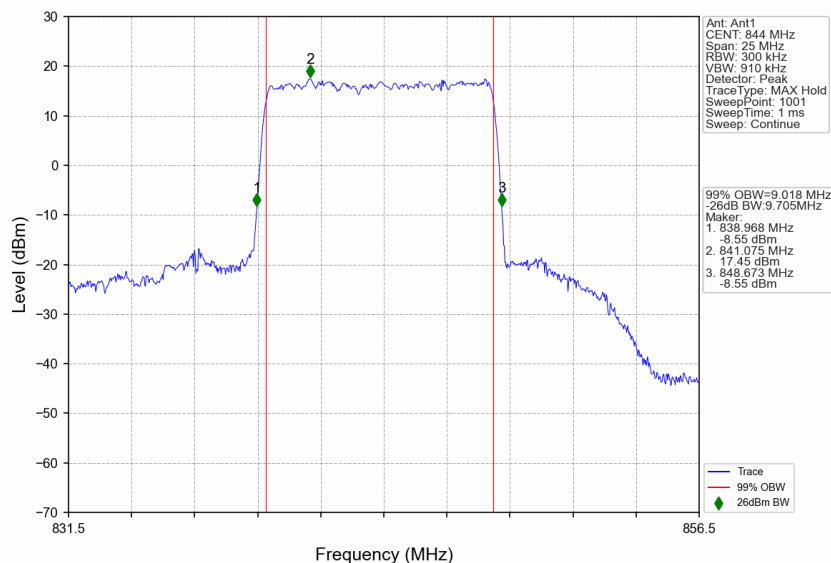
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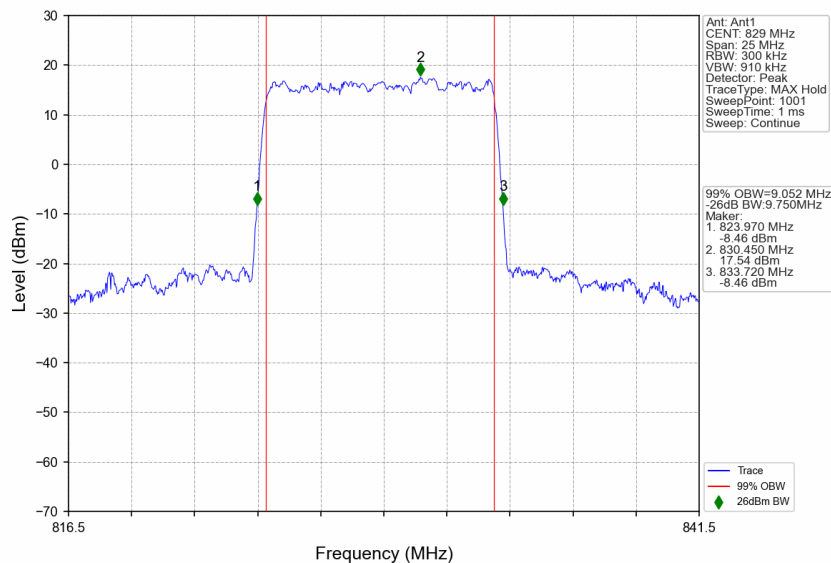
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n5\_15kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM 16 QAM\_844MHz\_Outer\_Full



n5\_15kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM 64 QAM\_829MHz\_Outer\_Full



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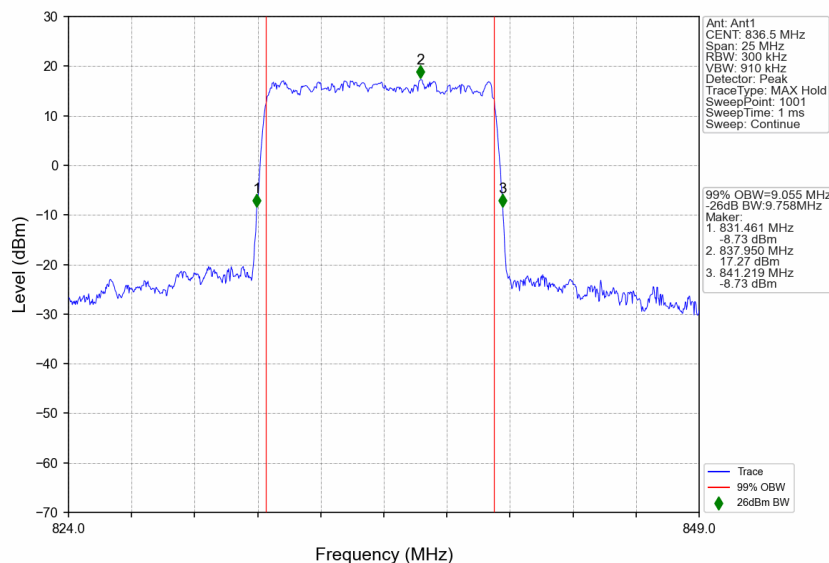
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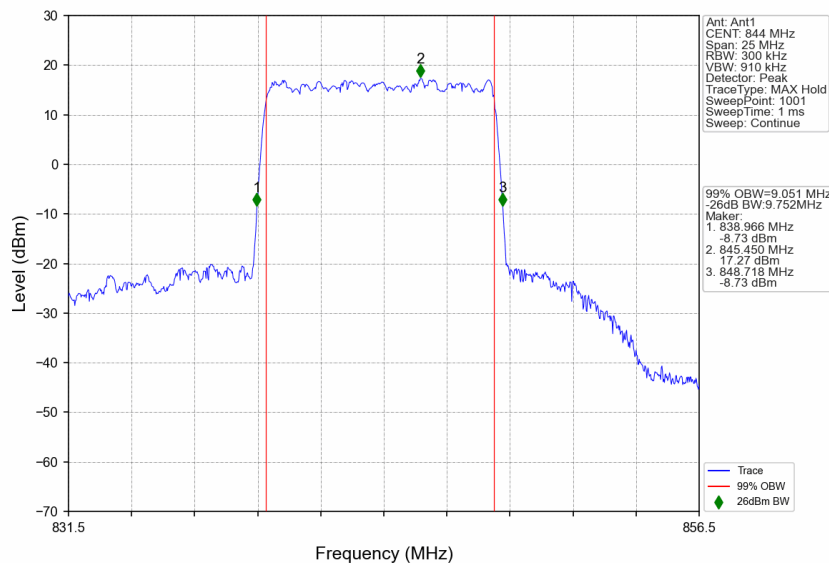
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n5\_15kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM\_64\_QAM\_836.5MHz\_Outer\_Full



n5\_15kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM\_64\_QAM\_844MHz\_Outer\_Full



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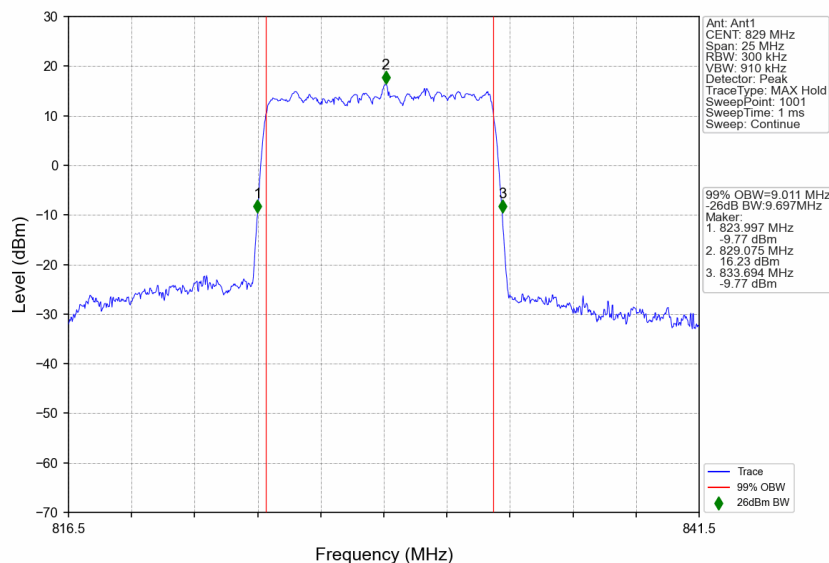
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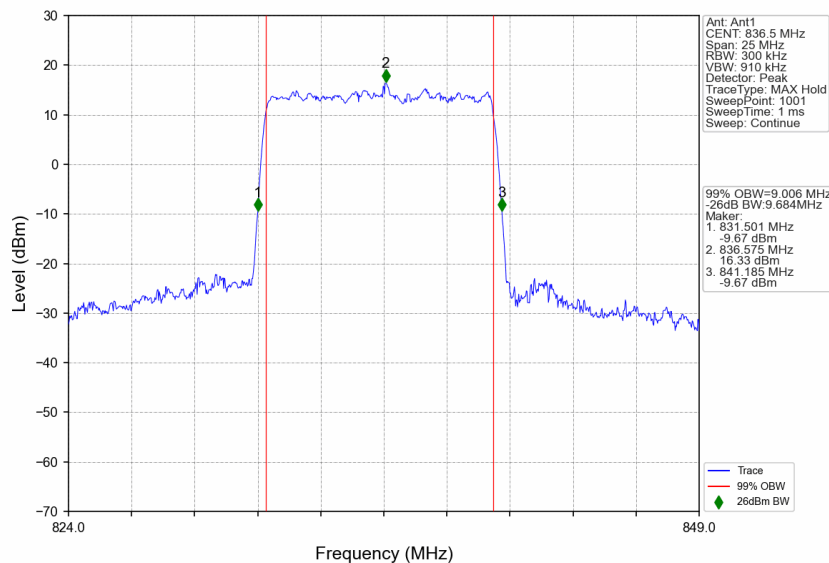
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n5\_15kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM\_256\_QAM\_829MHz\_Outer\_Full



n5\_15kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM\_256\_QAM\_836.5MHz\_Outer\_Full



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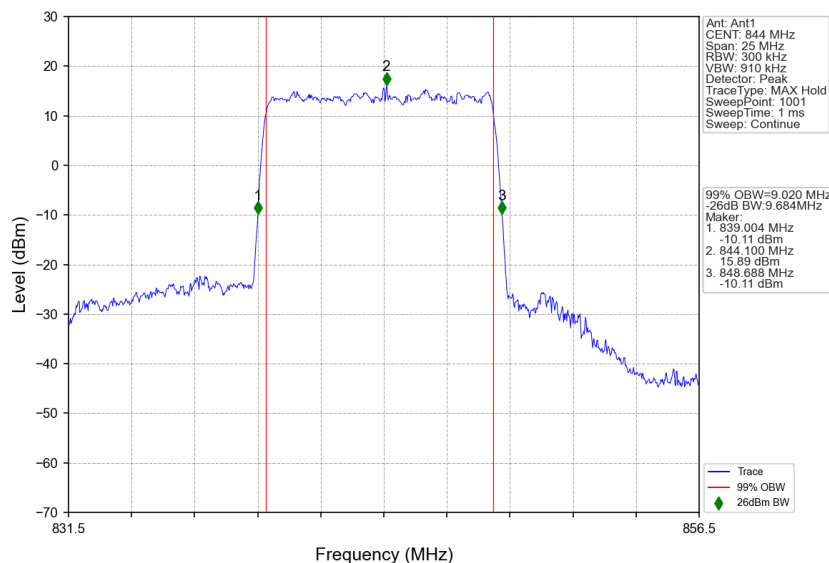
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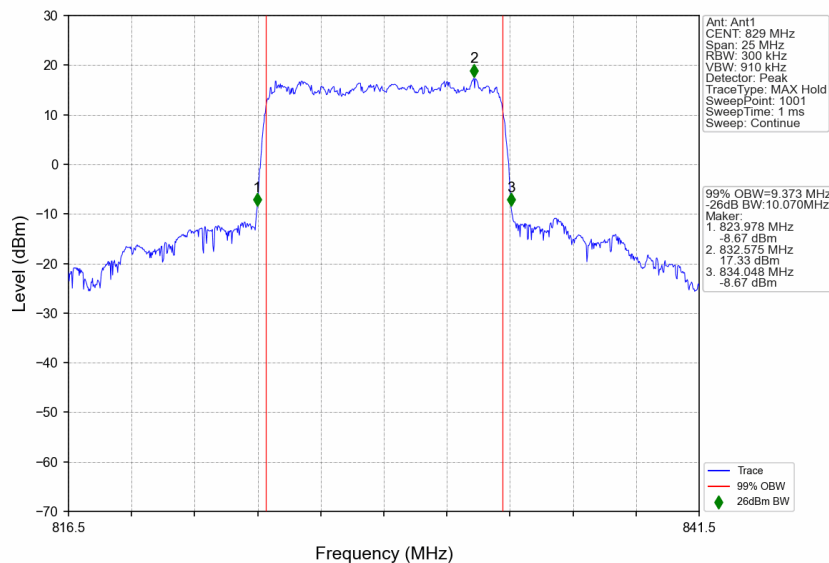
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n5\_15kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM 256 QAM 844MHz\_Outer\_Full



n5\_15kHz\_SISO\_NTNV\_10MHz\_CP-OFDM QPSK 829MHz\_Outer\_Full



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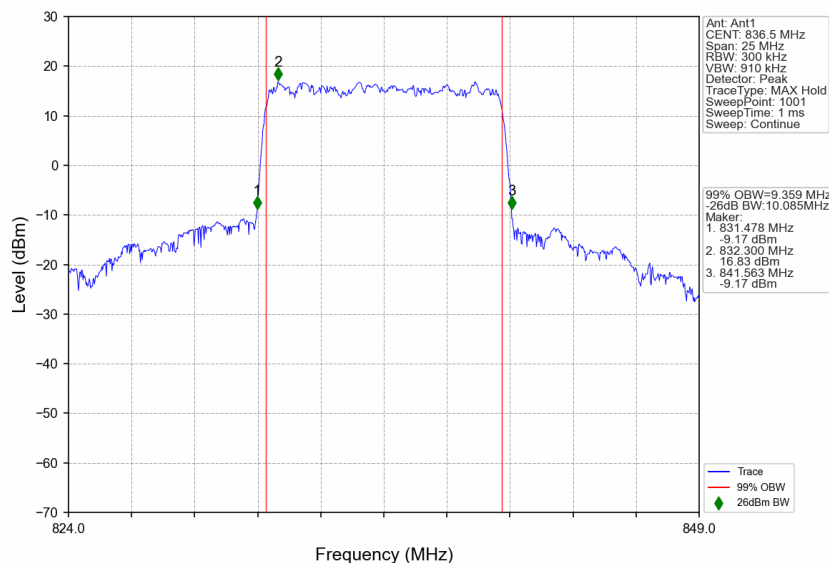
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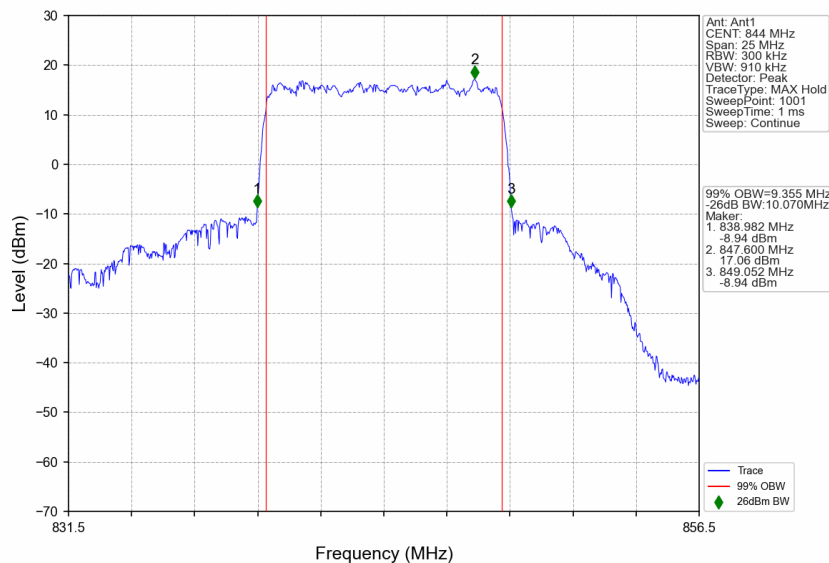
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n5\_15kHz\_SISO\_NTNV\_10MHz\_CP-OFDM QPSK 836.5MHz\_Outer\_Full



n5\_15kHz\_SISO\_NTNV\_10MHz\_CP-OFDM QPSK 844MHz\_Outer\_Full



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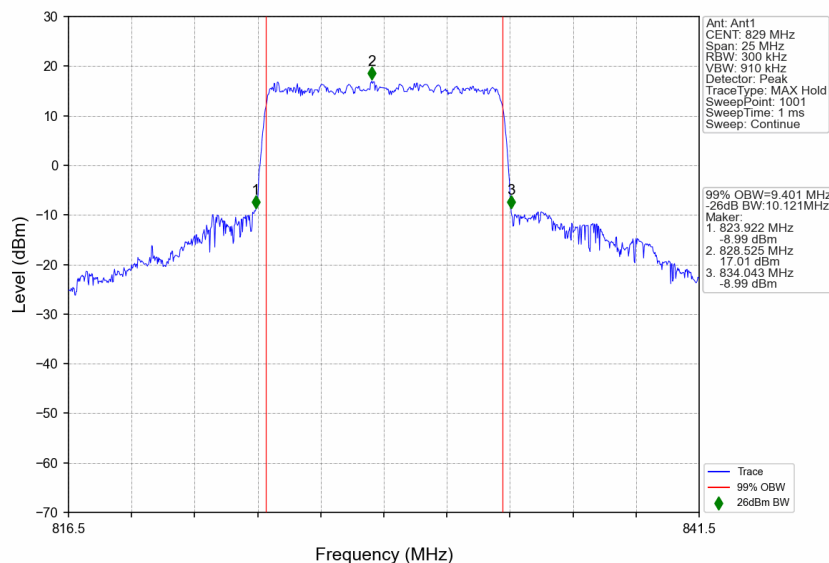
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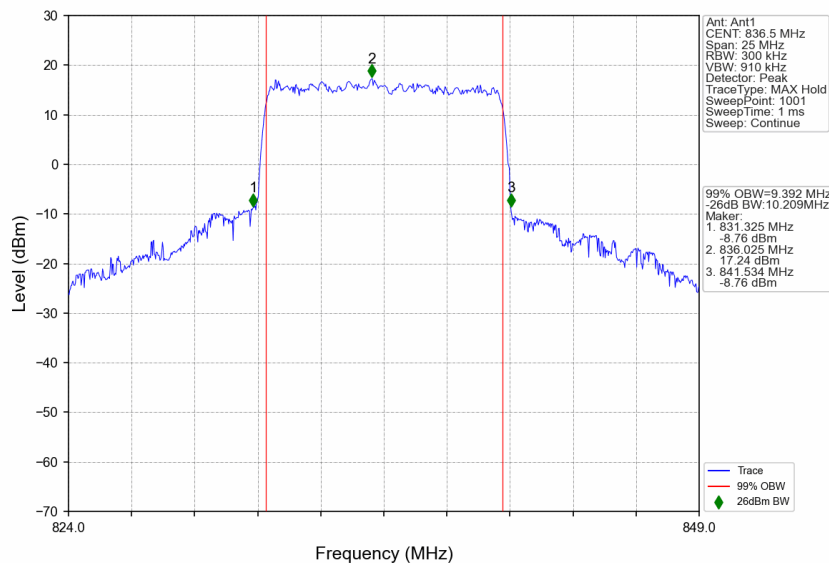
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n5\_15kHz\_SISO\_NTNV\_10MHz\_CP-OFDM 16 QAM 829MHz\_Outer\_Full



n5\_15kHz\_SISO\_NTNV\_10MHz\_CP-OFDM 16 QAM 836.5MHz\_Outer\_Full



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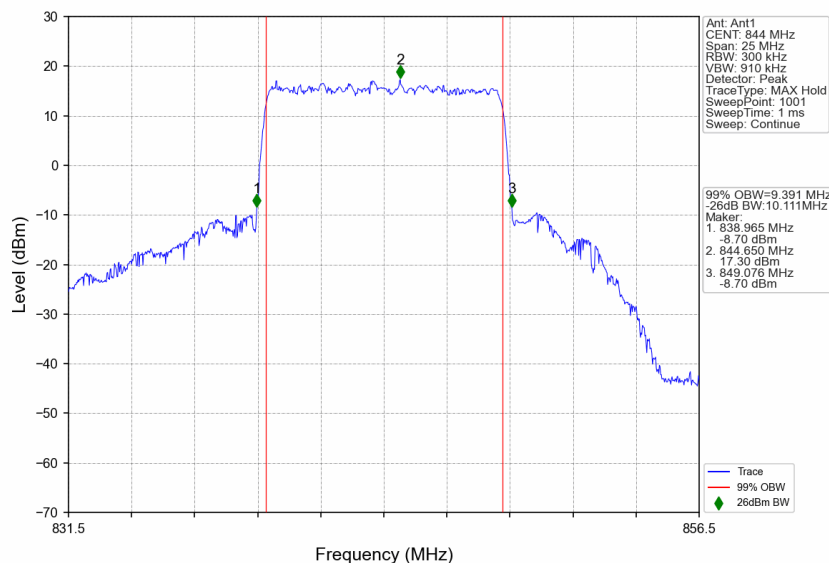
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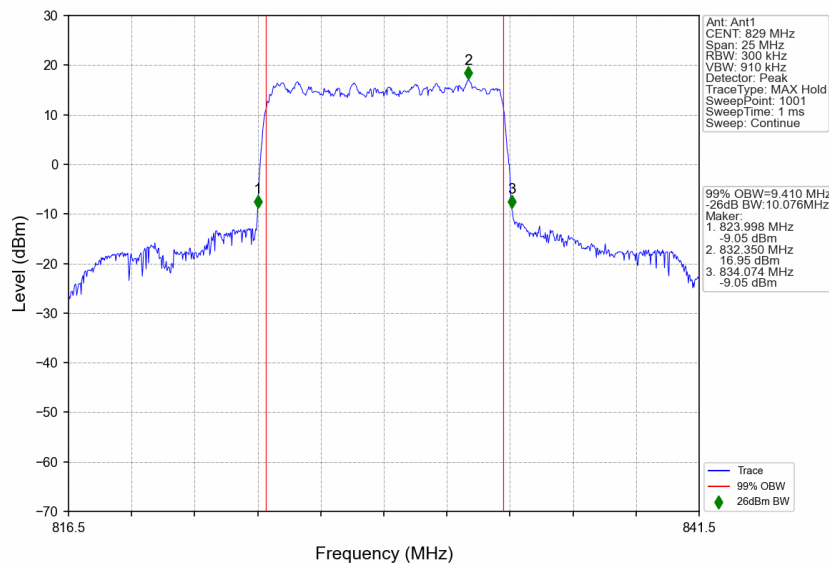
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n5\_15kHz\_SISO\_NTNV\_10MHz\_CP-OFDM 16 QAM\_844MHz\_Outer\_Full



n5\_15kHz\_SISO\_NTNV\_10MHz\_CP-OFDM 64 QAM\_829MHz\_Outer\_Full



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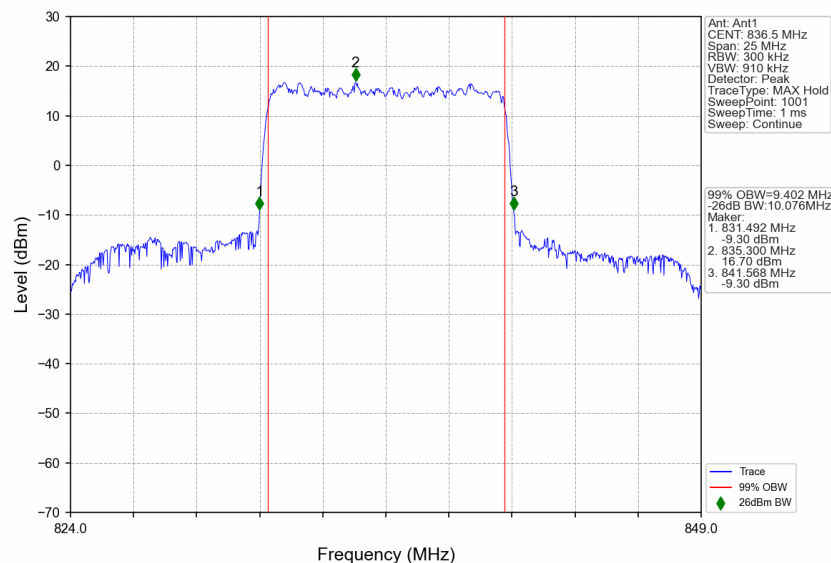
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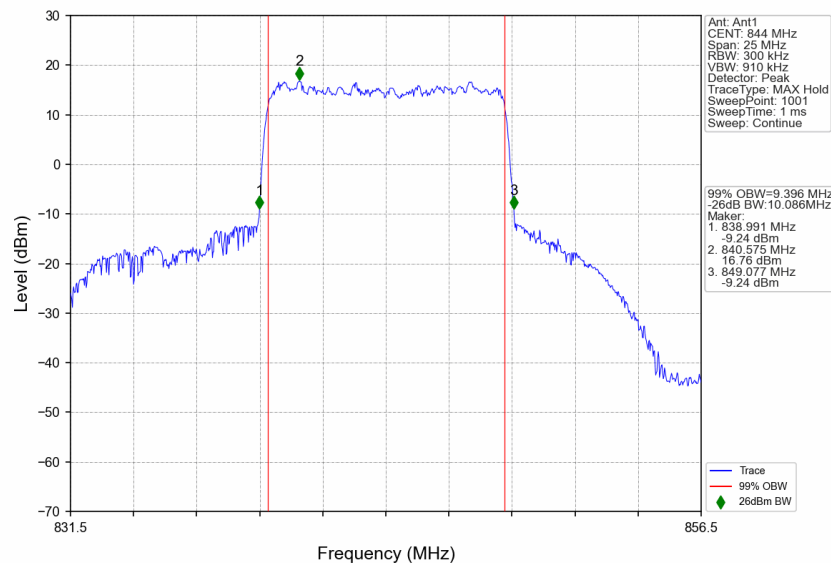
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n5\_15kHz\_SISO\_NTNV\_10MHz\_CP-OFDM 64 QAM\_836.5MHz\_Outer\_Full



n5\_15kHz\_SISO\_NTNV\_10MHz\_CP-OFDM 64 QAM\_844MHz\_Outer\_Full



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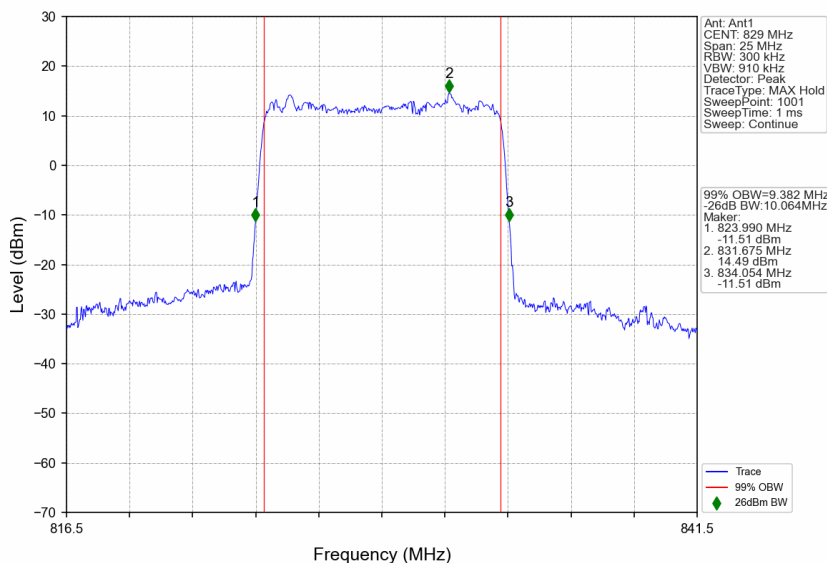
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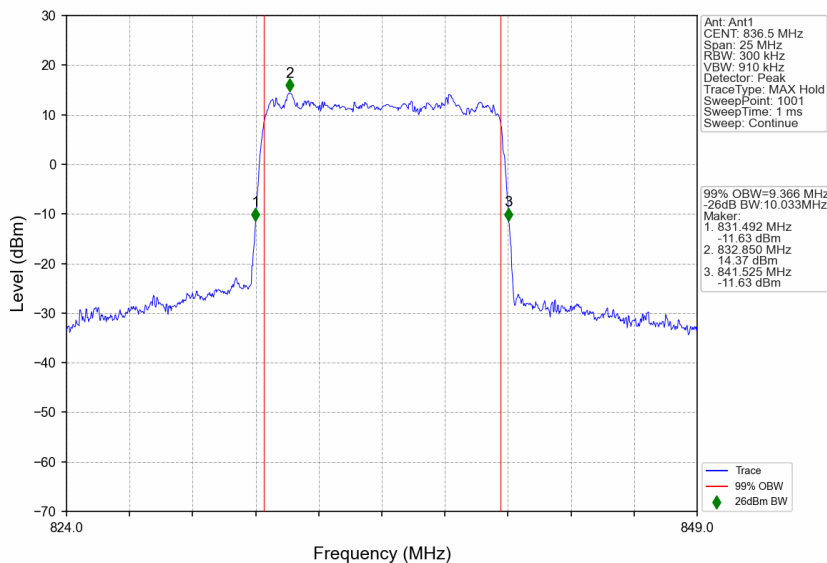
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n5\_15kHz\_SISO\_NTNV\_10MHz\_CP-OFDM 256 QAM 829MHz\_Outer\_Full



n5\_15kHz\_SISO\_NTNV\_10MHz\_CP-OFDM 256 QAM 836.5MHz\_Outer\_Full



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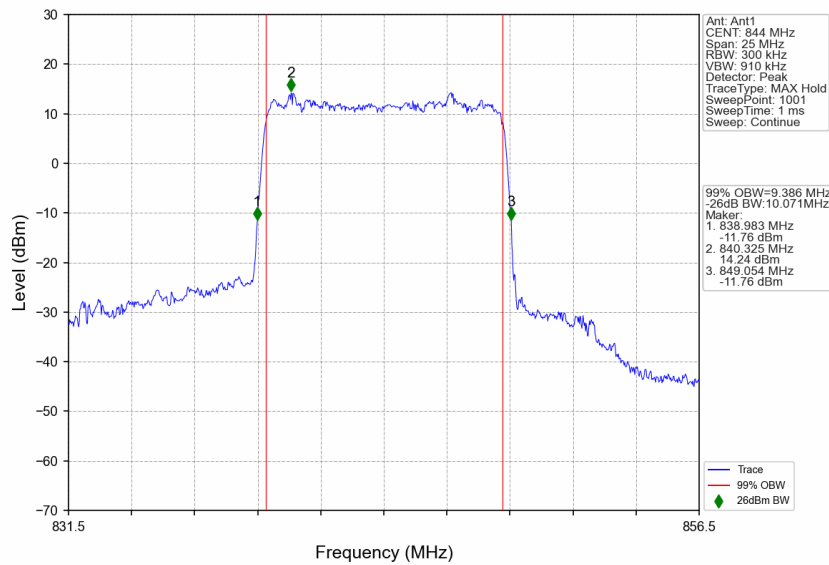
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n5\_15kHz\_SISO\_NTNV\_10MHz\_CP-OFDM 256 QAM\_844MHz\_Outer\_Full



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### 4.3 15k\_SISO\_15MHz\_NTNV

#### 4.3.1 Test Result

| 5G NR n5 SCS=15kHz SISO 15MHz NTN |                 |               |                     |                      |             |         |
|-----------------------------------|-----------------|---------------|---------------------|----------------------|-------------|---------|
| Modulation                        | Frequency (MHz) | RB Allocation | 99% Bandwidth (MHz) | 26dB Bandwidth (MHz) | Limit (MHz) | Verdict |
| DFT-s-OFDM PI/2 BPSK              | 831.5           | Outer Full    | 13.60               | 14.57                | /           | Pass    |
|                                   | 836.5           | Outer Full    | 13.54               | 14.55                | /           | Pass    |
|                                   | 841.5           | Outer Full    | 13.57               | 14.55                | /           | Pass    |
| DFT-s-OFDM QPSK                   | 831.5           | Outer Full    | 13.56               | 14.56                | /           | Pass    |
|                                   | 836.5           | Outer Full    | 13.54               | 14.58                | /           | Pass    |
|                                   | 841.5           | Outer Full    | 13.56               | 14.62                | /           | Pass    |
| DFT-s-OFDM 16 QAM                 | 831.5           | Outer Full    | 13.55               | 14.60                | /           | Pass    |
|                                   | 836.5           | Outer Full    | 13.56               | 14.60                | /           | Pass    |
|                                   | 841.5           | Outer Full    | 13.54               | 14.60                | /           | Pass    |
| DFT-s-OFDM 64 QAM                 | 831.5           | Outer Full    | 13.57               | 14.59                | /           | Pass    |
|                                   | 836.5           | Outer Full    | 13.55               | 14.61                | /           | Pass    |
|                                   | 841.5           | Outer Full    | 13.58               | 14.59                | /           | Pass    |
| DFT-s-OFDM 256 QAM                | 831.5           | Outer Full    | 13.55               | 14.54                | /           | Pass    |
|                                   | 836.5           | Outer Full    | 13.55               | 14.54                | /           | Pass    |
|                                   | 841.5           | Outer Full    | 13.57               | 14.58                | /           | Pass    |
| CP-OFDM QPSK                      | 831.5           | Outer Full    | 14.26               | 15.27                | /           | Pass    |
|                                   | 836.5           | Outer Full    | 14.24               | 15.29                | /           | Pass    |
|                                   | 841.5           | Outer Full    | 14.23               | 15.27                | /           | Pass    |
| CP-OFDM 16 QAM                    | 831.5           | Outer Full    | 14.28               | 15.34                | /           | Pass    |
|                                   | 836.5           | Outer Full    | 14.29               | 15.31                | /           | Pass    |
|                                   | 841.5           | Outer Full    | 14.27               | 15.28                | /           | Pass    |
| CP-OFDM 64 QAM                    | 831.5           | Outer Full    | 14.28               | 15.30                | /           | Pass    |
|                                   | 836.5           | Outer Full    | 14.27               | 15.32                | /           | Pass    |
|                                   | 841.5           | Outer Full    | 14.28               | 15.31                | /           | Pass    |
| CP-OFDM 256 QAM                   | 831.5           | Outer Full    | 14.24               | 15.26                | /           | Pass    |
|                                   | 836.5           | Outer Full    | 14.24               | 15.27                | /           | Pass    |
|                                   | 841.5           | Outer Full    | 14.23               | 15.31                | /           | Pass    |



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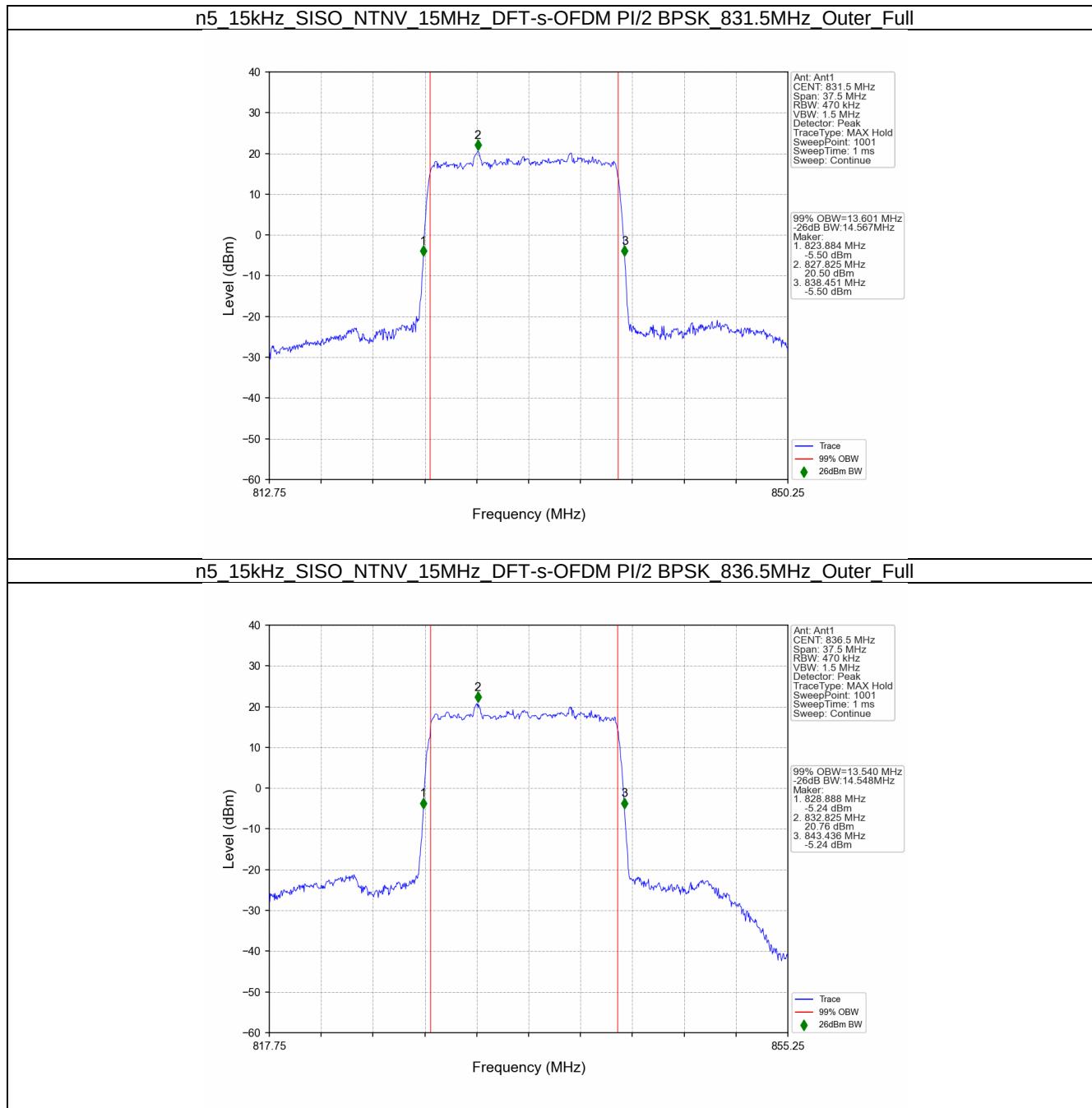
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### 4.3.2 Test Graph



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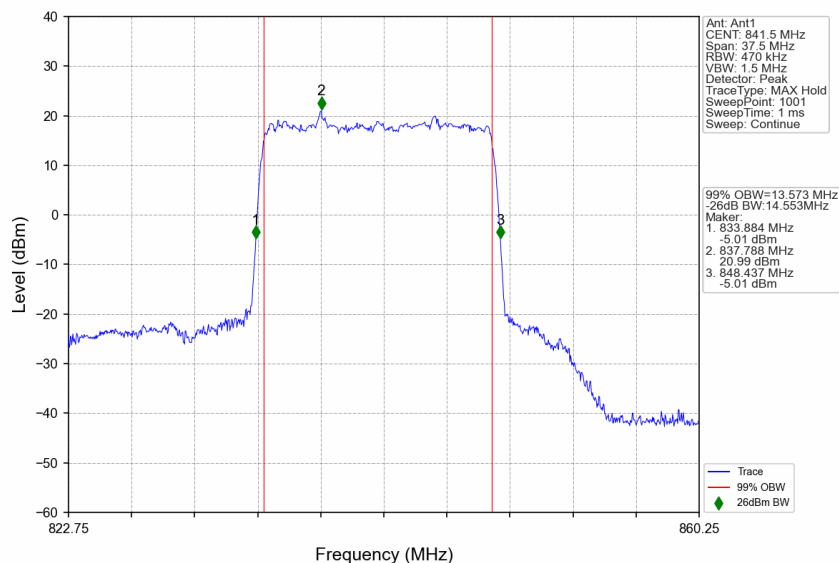
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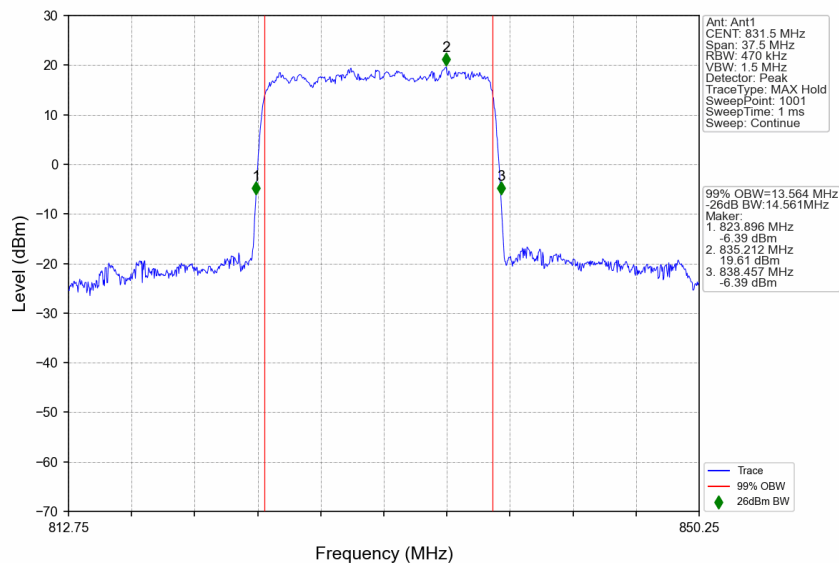
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n5\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM PI/2 BPSK\_841.5MHz\_Outer\_Full



n5\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM QPSK\_831.5MHz\_Outer\_Full



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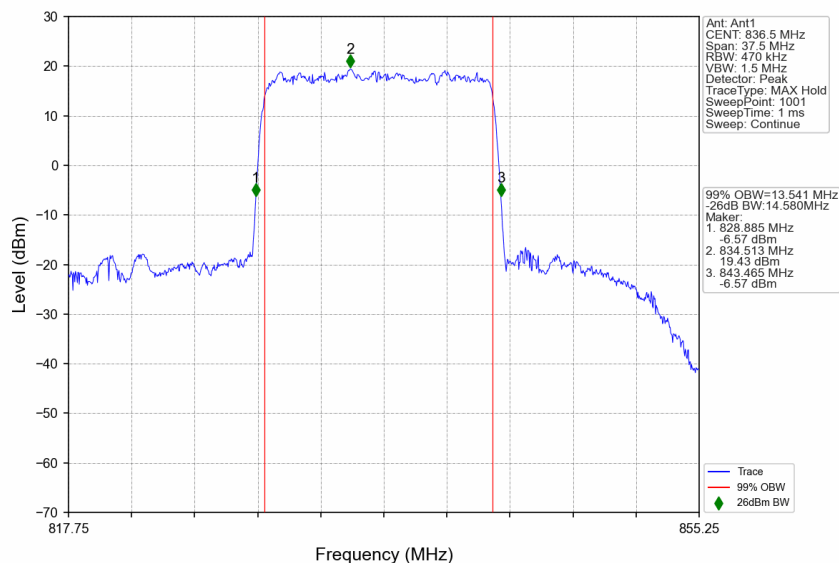
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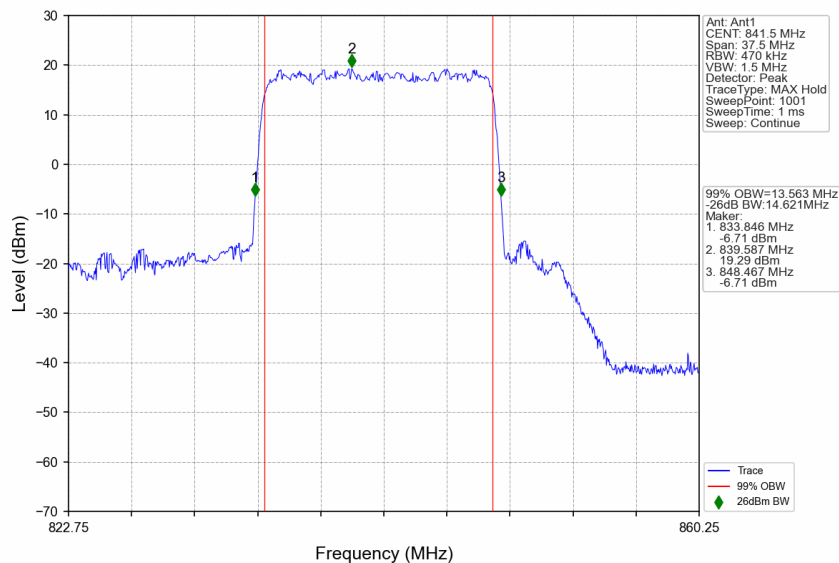
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n5\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM QPSK\_836.5MHz\_Outer\_Full



n5\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM QPSK\_841.5MHz\_Outer\_Full



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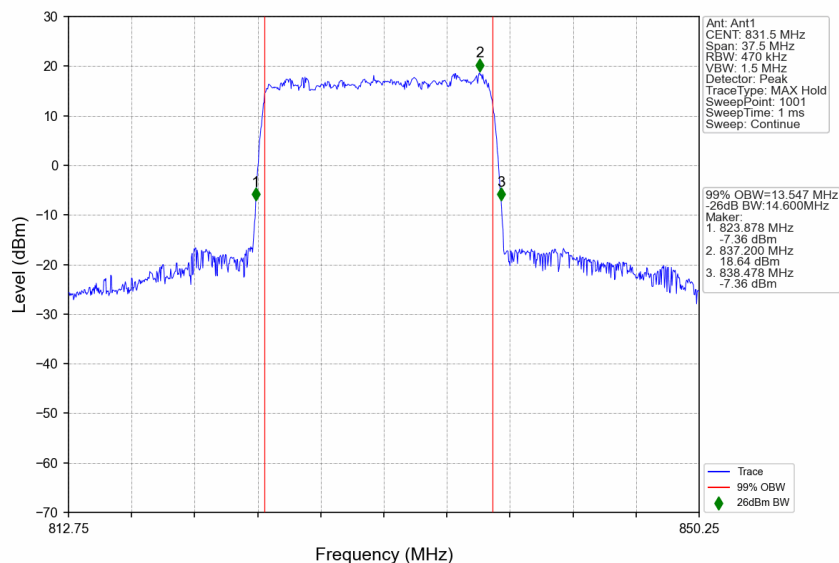
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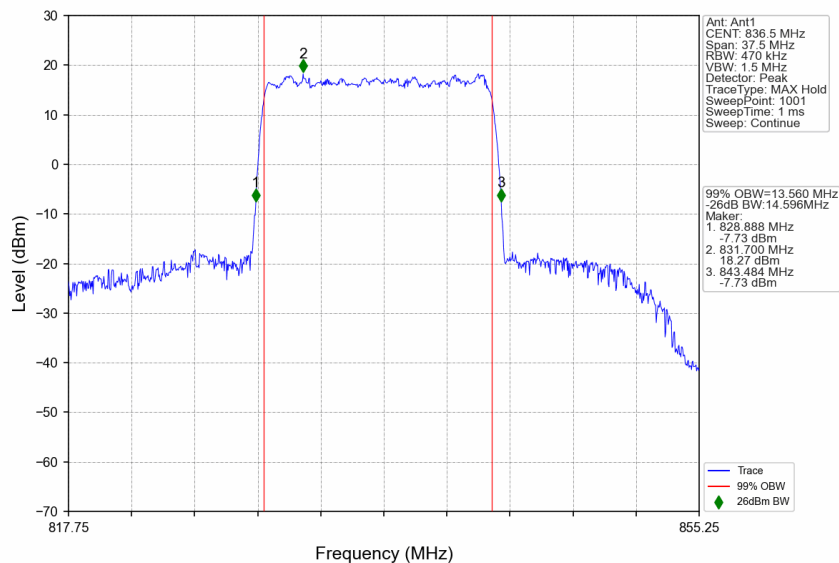
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n5\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM\_16\_QAM\_831.5MHz\_Outer\_Full



n5\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM\_16\_QAM\_836.5MHz\_Outer\_Full



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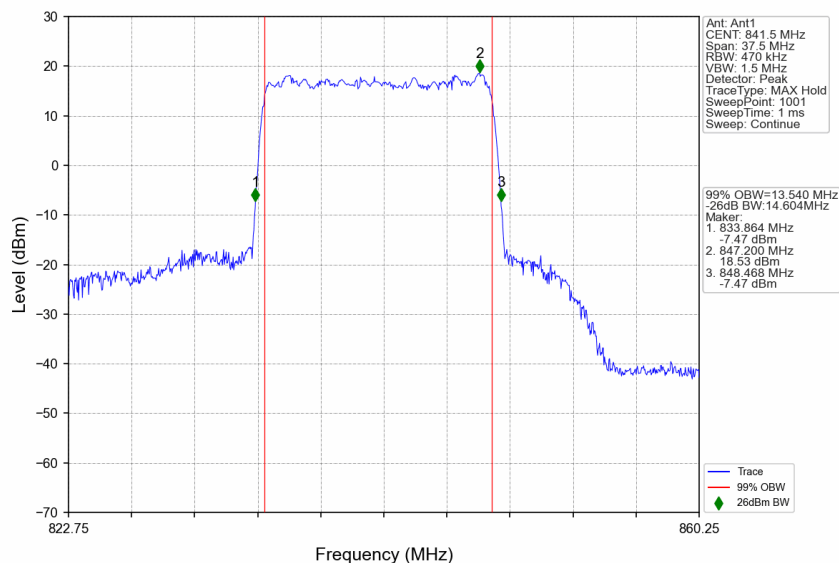
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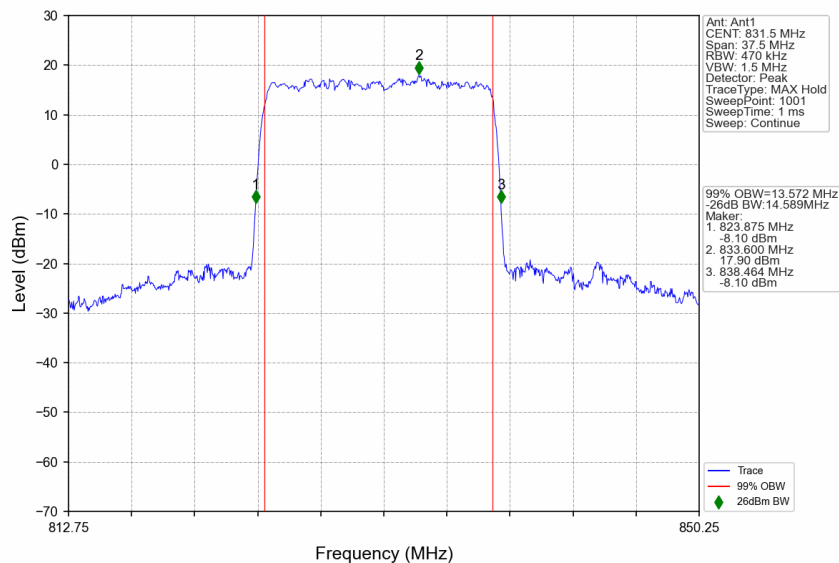
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n5\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM\_64\_QAM\_831.5MHz\_Outer\_Full



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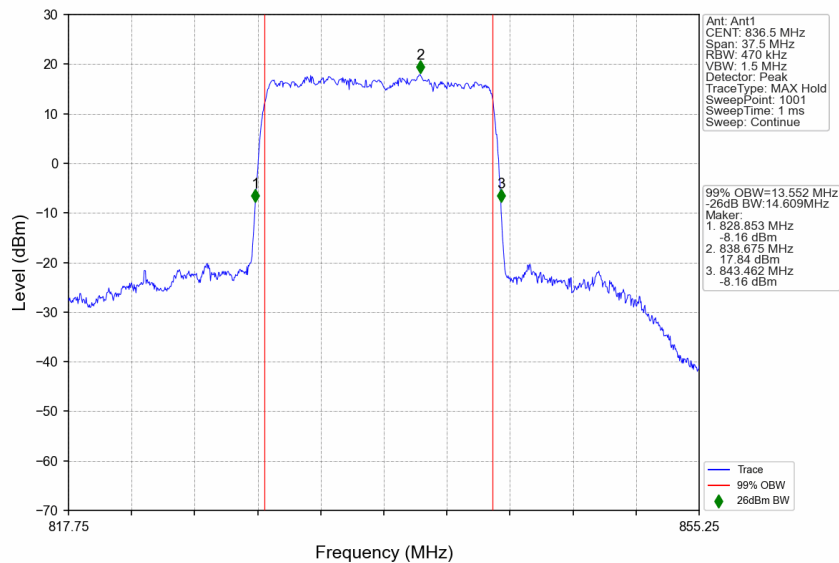
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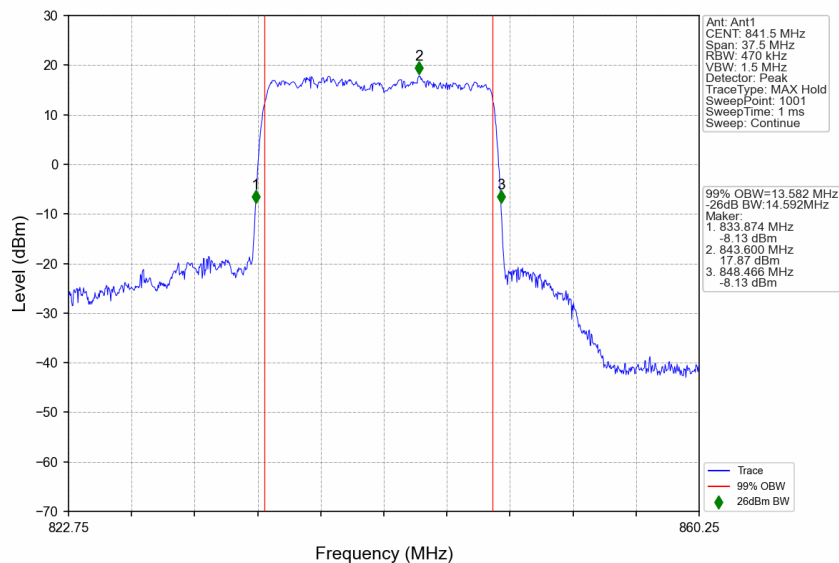
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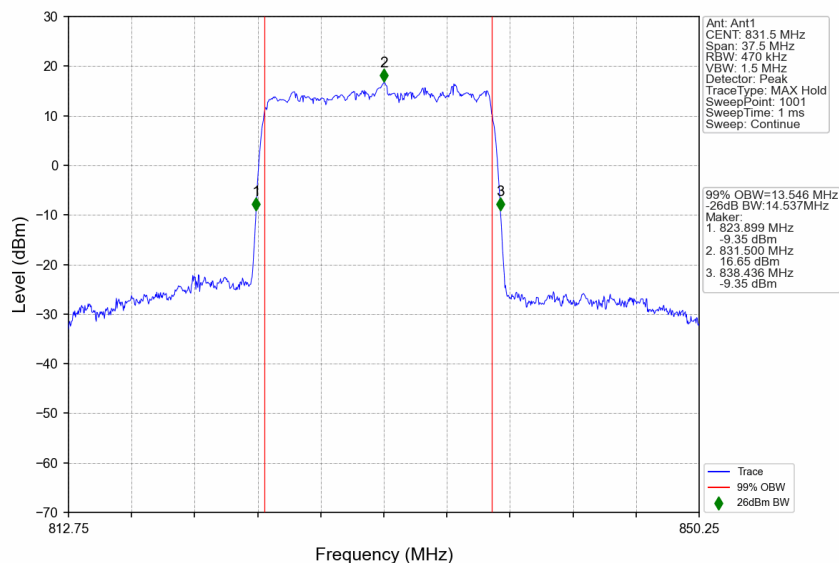
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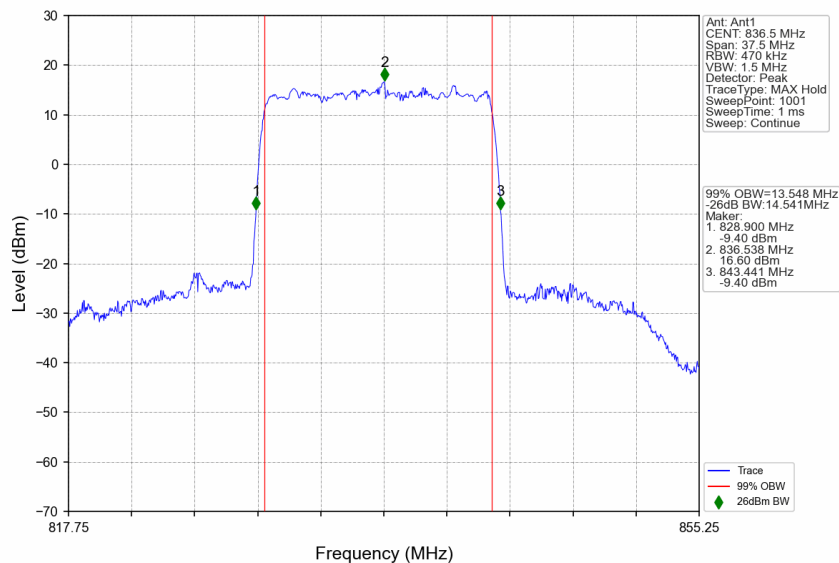
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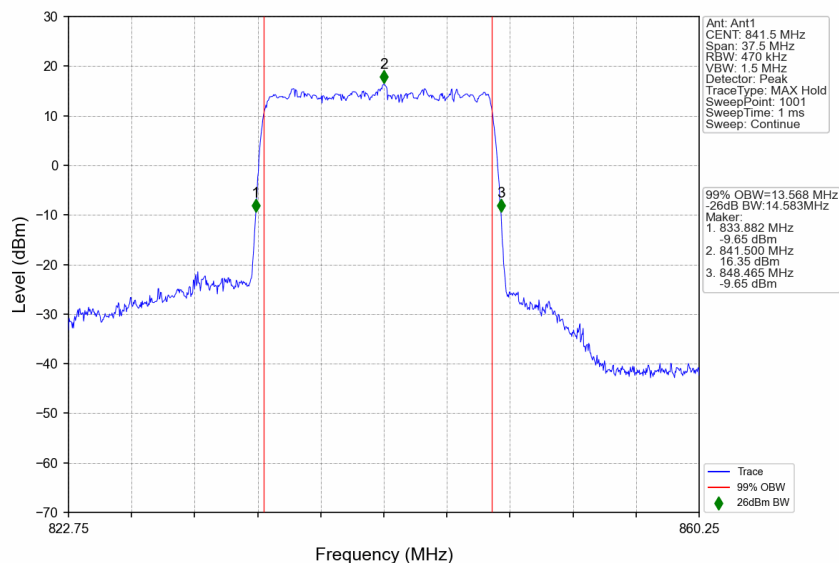
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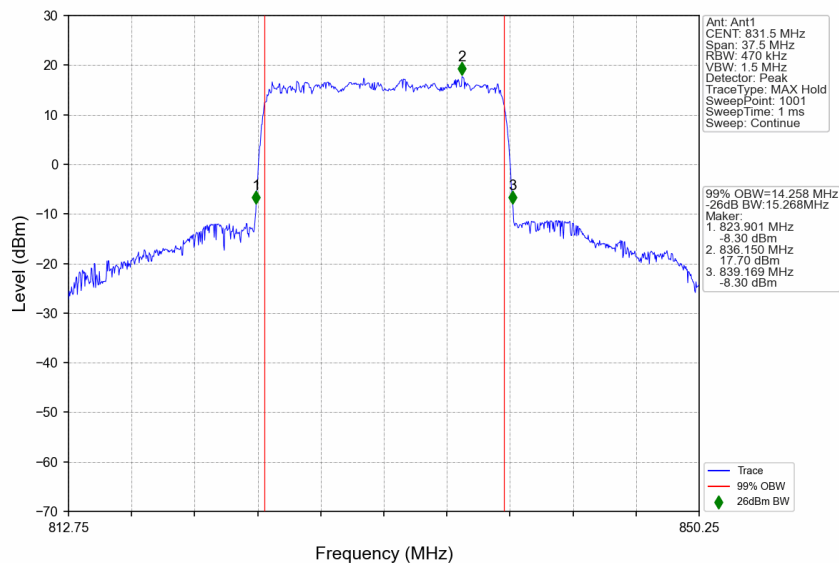
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n5\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM\_256\_QAM\_841.5MHz\_Outer\_Full



n5\_15kHz\_SISO\_NTNV\_15MHz\_CP-OFDM\_QPSK\_831.5MHz\_Outer\_Full



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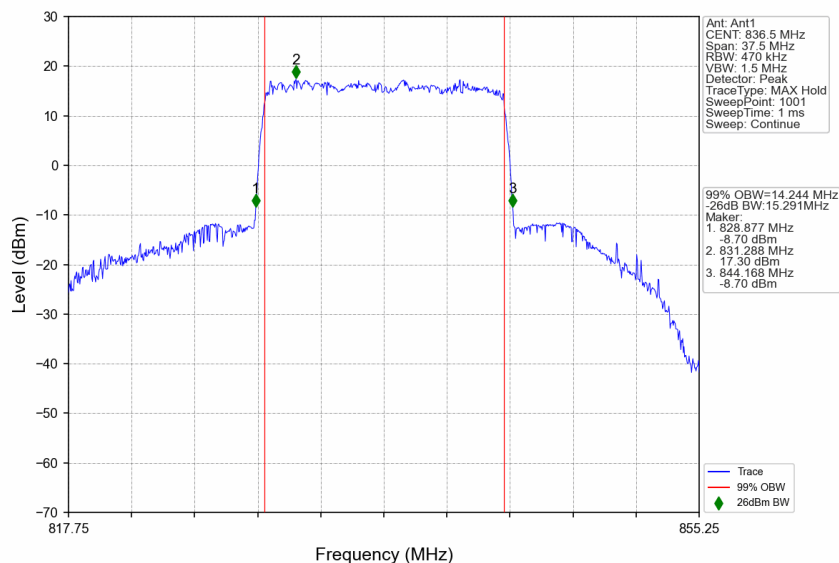
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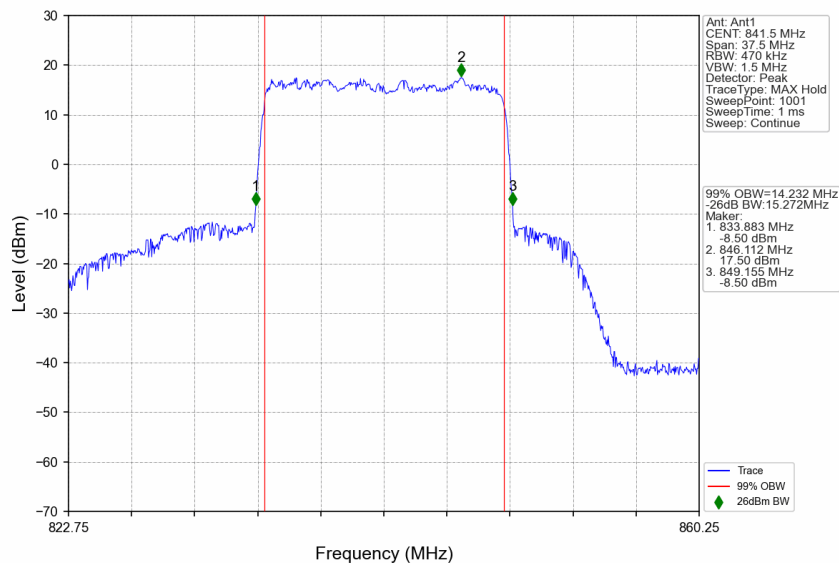
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n5\_15kHz\_SISO\_NTNV\_15MHz\_CP-OFDM QPSK 836.5MHz\_Outer\_Full



n5\_15kHz\_SISO\_NTNV\_15MHz\_CP-OFDM QPSK 841.5MHz\_Outer\_Full



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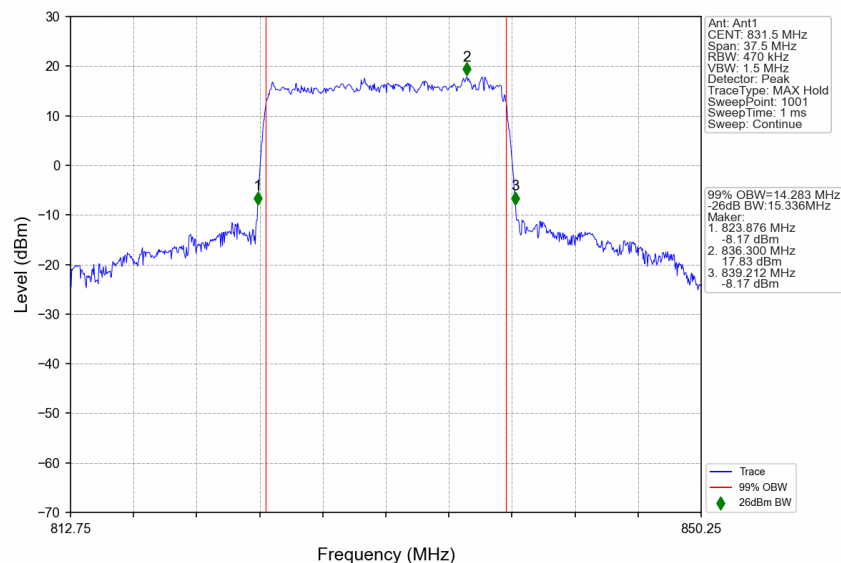
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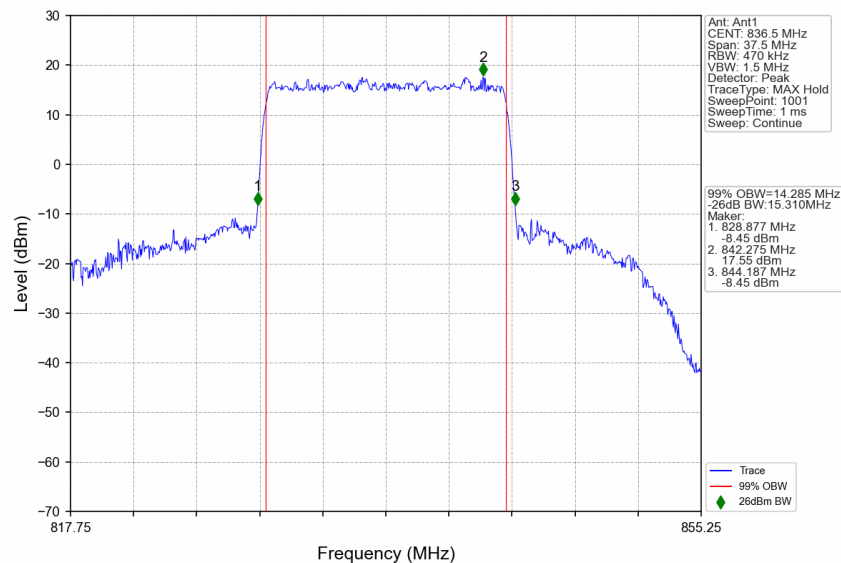
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n5\_15kHz\_SISO\_NTNV\_15MHz\_CP-OFDM\_16\_QAM\_831.5MHz\_Outer\_Full



n5\_15kHz\_SISO\_NTNV\_15MHz\_CP-OFDM\_16\_QAM\_836.5MHz\_Outer\_Full



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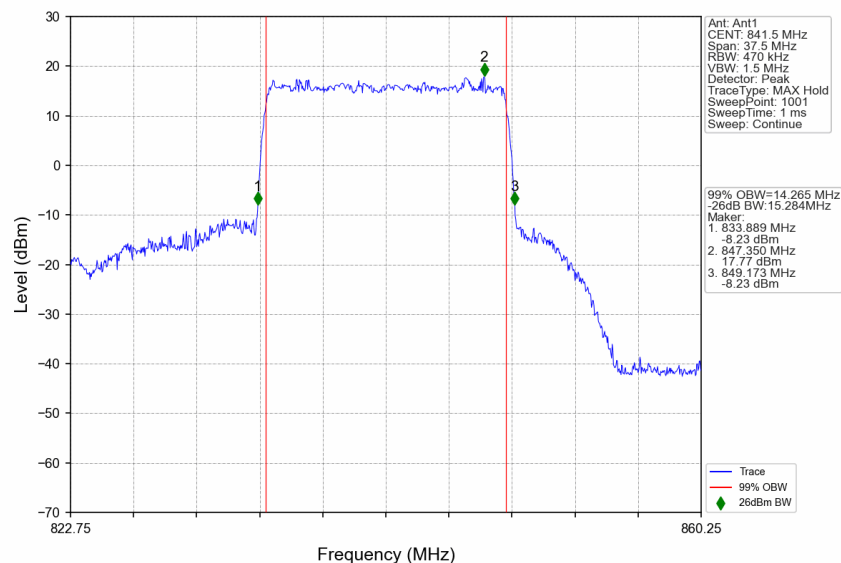
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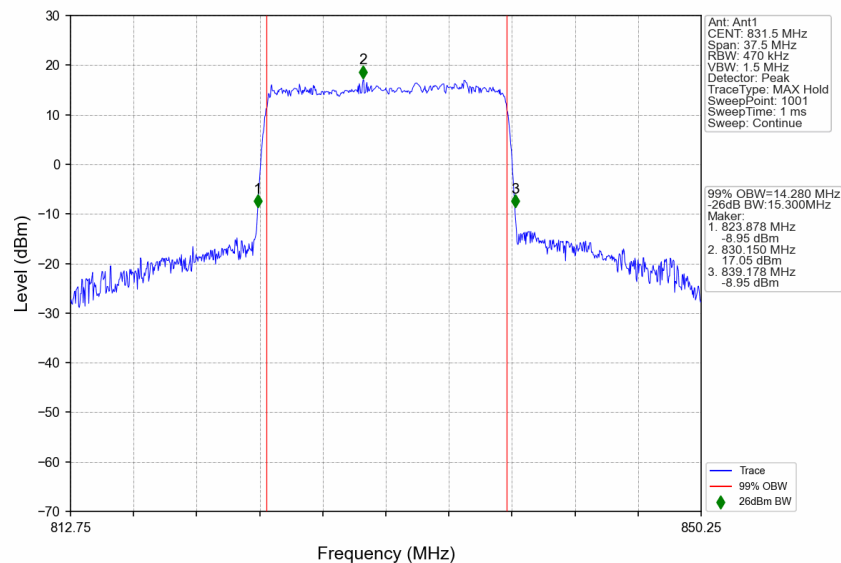
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n5\_15kHz\_SISO\_NTNV\_15MHz\_CP-OFDM 16 QAM\_841.5MHz\_Outer\_Full



n5\_15kHz\_SISO\_NTNV\_15MHz\_CP-OFDM 64 QAM\_831.5MHz\_Outer\_Full



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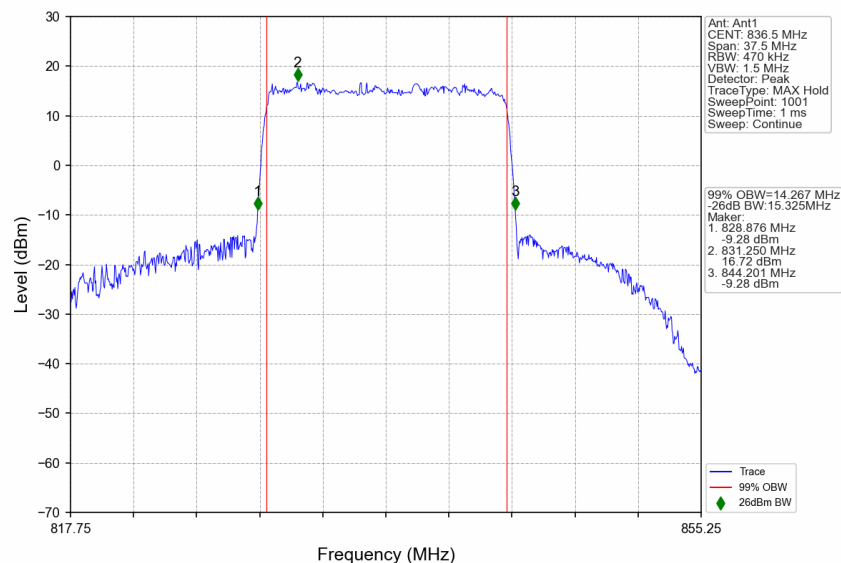
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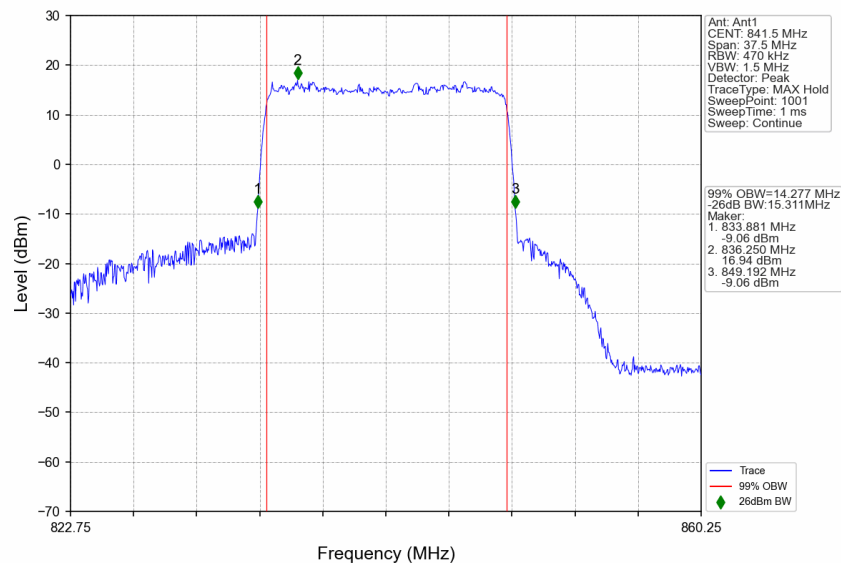
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n5\_15kHz\_SISO\_NTNV\_15MHz\_CP-OFDM\_64\_QAM\_836.5MHz\_Outer\_Full



n5\_15kHz\_SISO\_NTNV\_15MHz\_CP-OFDM\_64\_QAM\_841.5MHz\_Outer\_Full



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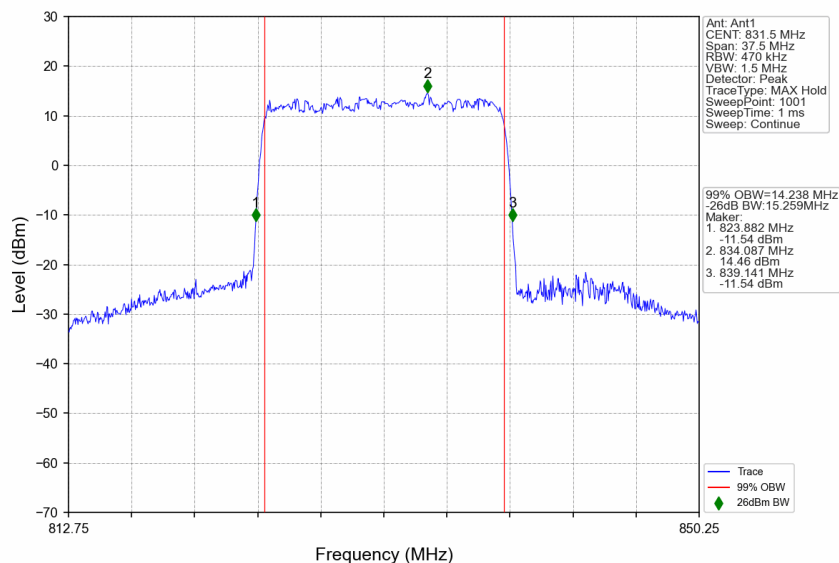
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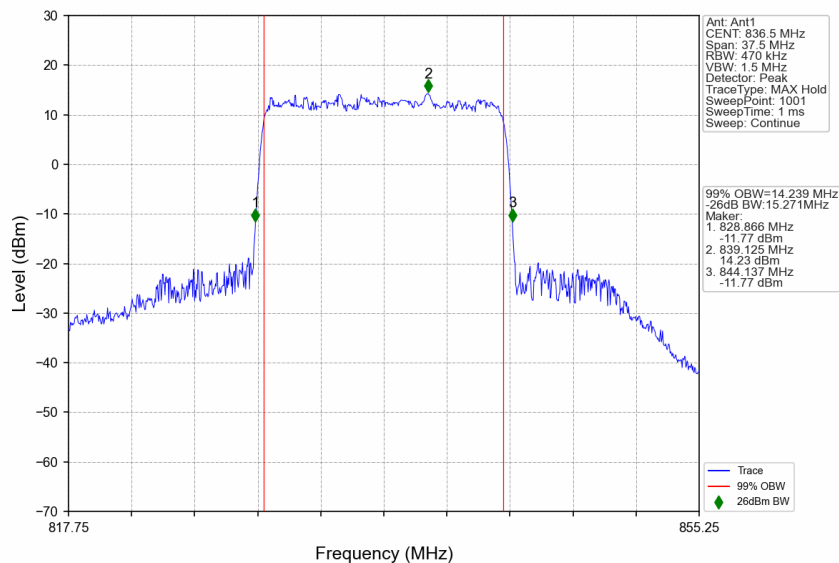
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n5\_15kHz\_SISO\_NTNV\_15MHz\_CP-OFDM\_256\_QAM\_831.5MHz\_Outer\_Full



n5\_15kHz\_SISO\_NTNV\_15MHz\_CP-OFDM\_256\_QAM\_836.5MHz\_Outer\_Full



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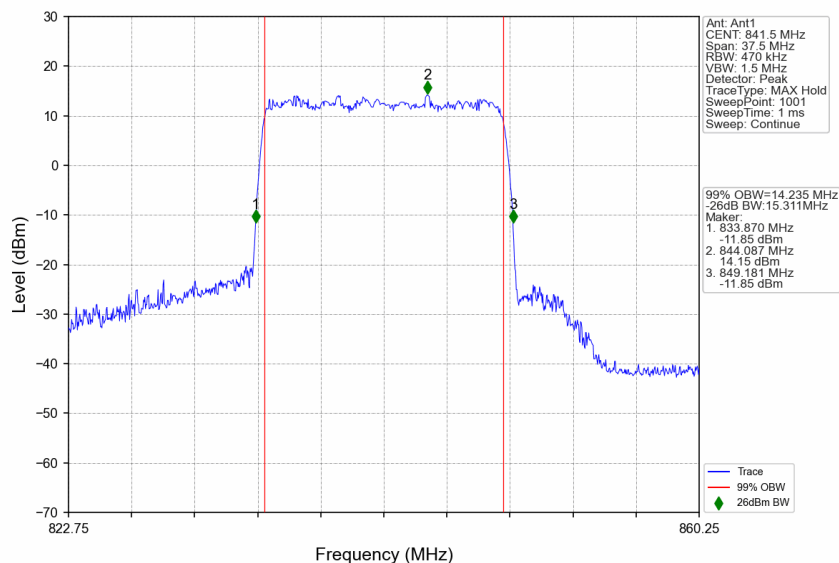
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#### 4.4 15k\_SISO\_20MHz\_NTNV

##### 4.4.1 Test Result

| 5G NR n5 SCS=15kHz SISO 20MHz NTV |                 |               |                     |                      |             |         |
|-----------------------------------|-----------------|---------------|---------------------|----------------------|-------------|---------|
| Modulation                        | Frequency (MHz) | RB Allocation | 99% Bandwidth (MHz) | 26dB Bandwidth (MHz) | Limit (MHz) | Verdict |
| DFT-s-OFDM PI/2 BPSK              | 834             | Outer Full    | 18.11               | 19.38                | /           | Pass    |
|                                   | 836.5           | Outer Full    | 18.10               | 19.37                | /           | Pass    |
|                                   | 839             | Outer Full    | 18.10               | 19.40                | /           | Pass    |
| DFT-s-OFDM QPSK                   | 834             | Outer Full    | 18.06               | 19.39                | /           | Pass    |
|                                   | 836.5           | Outer Full    | 18.06               | 19.38                | /           | Pass    |
|                                   | 839             | Outer Full    | 18.05               | 19.39                | /           | Pass    |
| DFT-s-OFDM 16 QAM                 | 834             | Outer Full    | 18.04               | 19.42                | /           | Pass    |
|                                   | 836.5           | Outer Full    | 18.03               | 19.37                | /           | Pass    |
|                                   | 839             | Outer Full    | 18.04               | 19.40                | /           | Pass    |
| DFT-s-OFDM 64 QAM                 | 834             | Outer Full    | 18.09               | 19.44                | /           | Pass    |
|                                   | 836.5           | Outer Full    | 18.09               | 19.41                | /           | Pass    |
|                                   | 839             | Outer Full    | 18.12               | 19.49                | /           | Pass    |
| DFT-s-OFDM 256 QAM                | 834             | Outer Full    | 18.01               | 19.38                | /           | Pass    |
|                                   | 836.5           | Outer Full    | 18.01               | 19.35                | /           | Pass    |
|                                   | 839             | Outer Full    | 18.03               | 19.39                | /           | Pass    |
| CP-OFDM QPSK                      | 834             | Outer Full    | 19.12               | 20.46                | /           | Pass    |
|                                   | 836.5           | Outer Full    | 19.11               | 23.29                | /           | Pass    |
|                                   | 839             | Outer Full    | 19.15               | 20.45                | /           | Pass    |
| CP-OFDM 16 QAM                    | 834             | Outer Full    | 19.07               | 20.51                | /           | Pass    |
|                                   | 836.5           | Outer Full    | 19.09               | 20.47                | /           | Pass    |
|                                   | 839             | Outer Full    | 19.11               | 20.46                | /           | Pass    |
| CP-OFDM 64 QAM                    | 834             | Outer Full    | 19.16               | 20.49                | /           | Pass    |
|                                   | 836.5           | Outer Full    | 19.14               | 20.44                | /           | Pass    |
|                                   | 839             | Outer Full    | 19.14               | 20.43                | /           | Pass    |
| CP-OFDM 256 QAM                   | 834             | Outer Full    | 19.05               | 20.45                | /           | Pass    |
|                                   | 836.5           | Outer Full    | 19.06               | 20.48                | /           | Pass    |
|                                   | 839             | Outer Full    | 19.07               | 20.46                | /           | Pass    |



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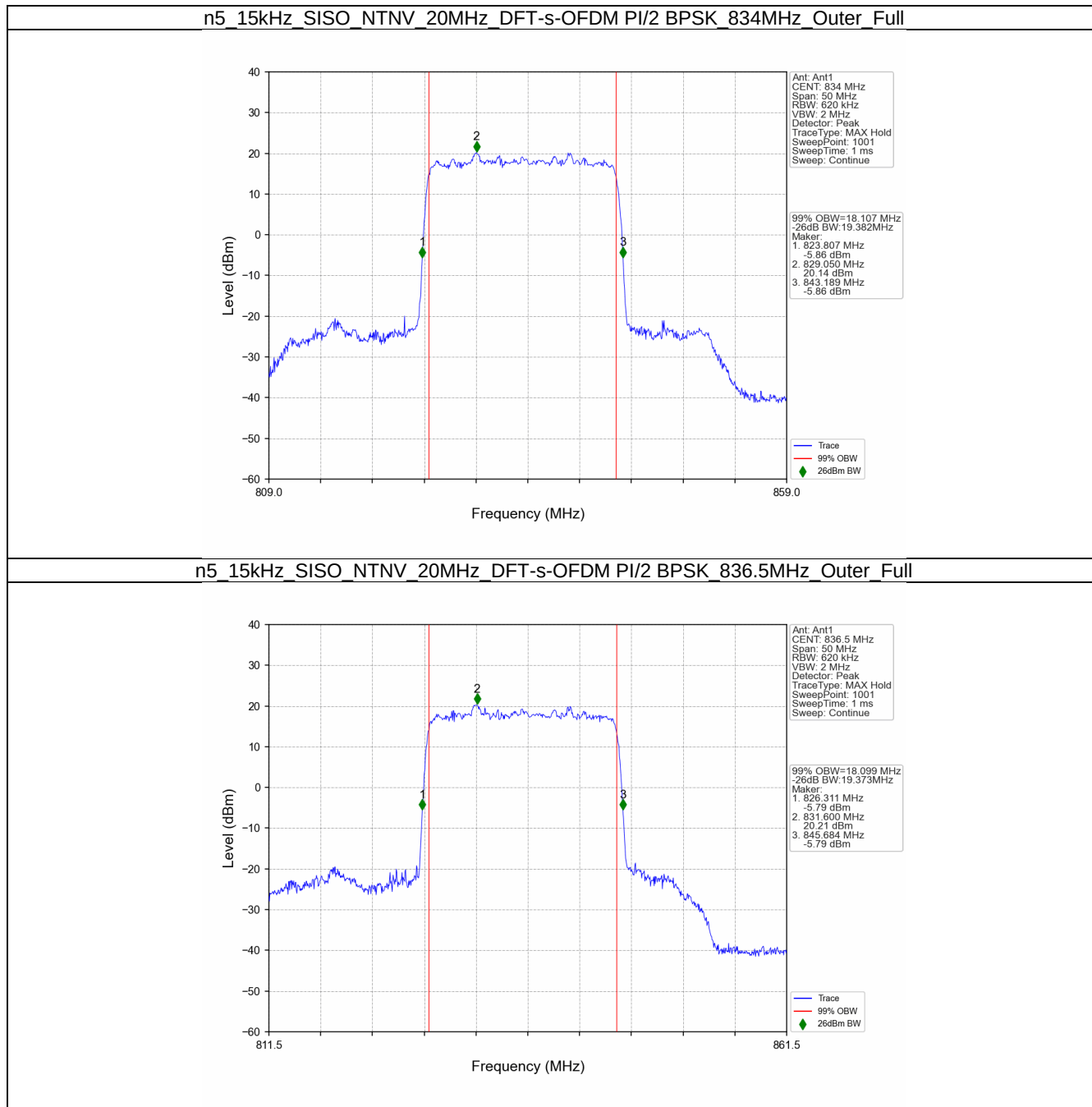
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### 4.4.2 Test Graph



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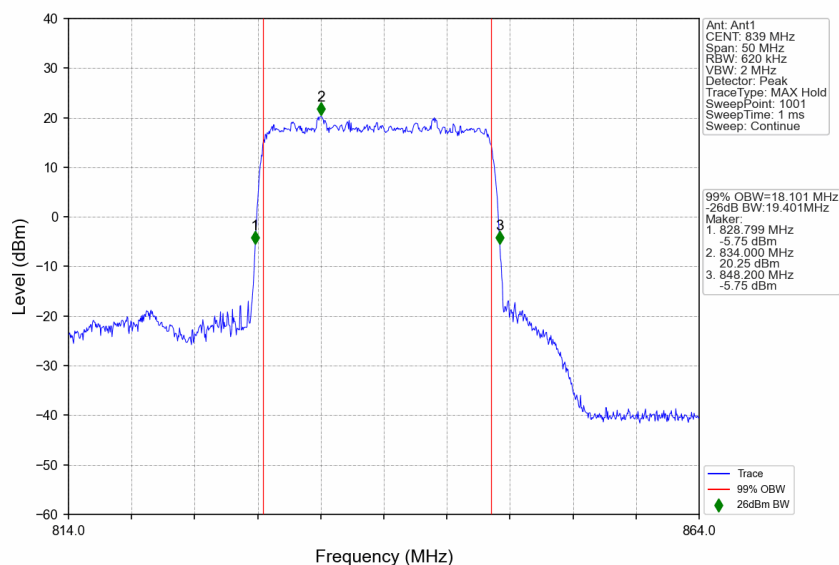
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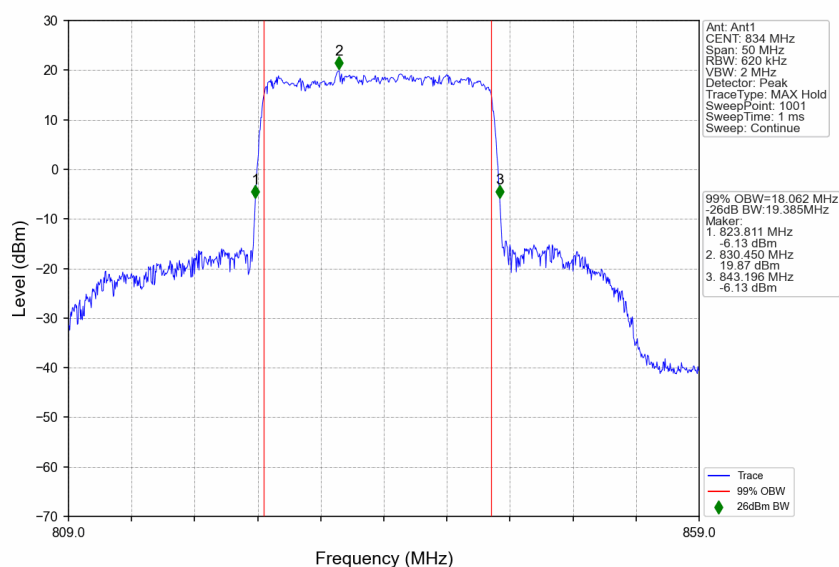
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n5\_15kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM\_QPSK\_834MHz\_Outer\_Full



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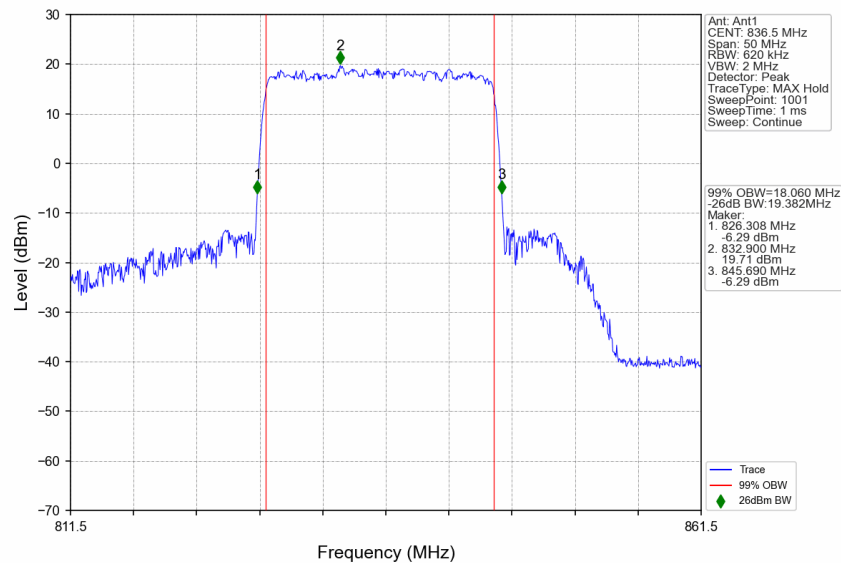
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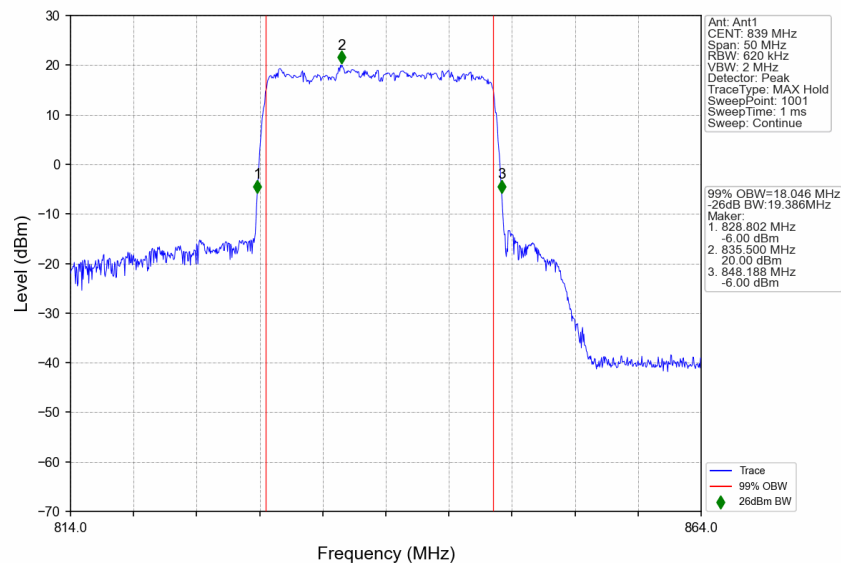
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n5\_15kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM QPSK\_836.5MHz\_Outer\_Full



n5\_15kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM QPSK\_839MHz\_Outer\_Full



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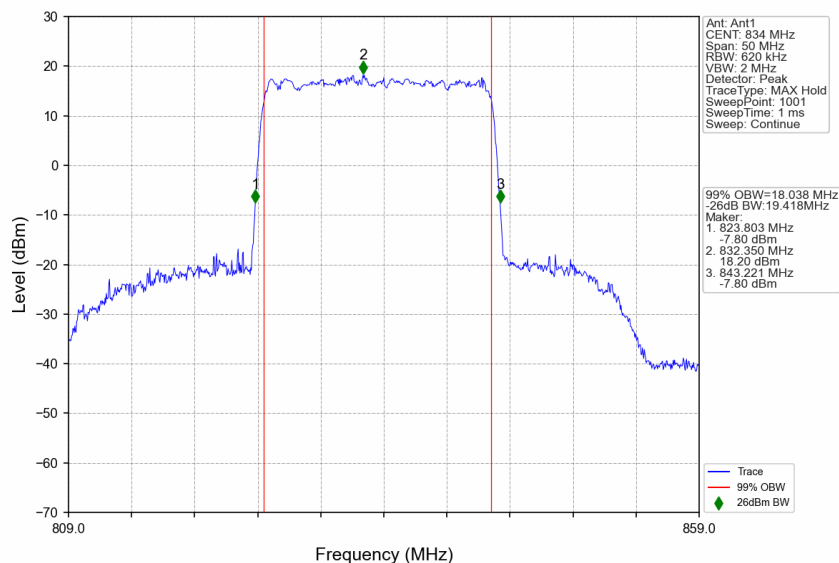
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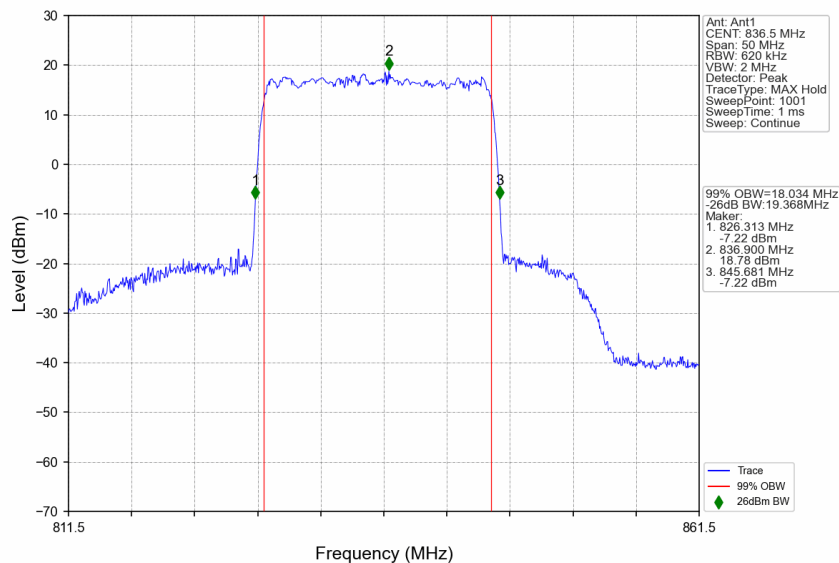
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n5\_15kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM\_16\_QAM\_834MHz\_Outer\_Full



n5\_15kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM\_16\_QAM\_836.5MHz\_Outer\_Full



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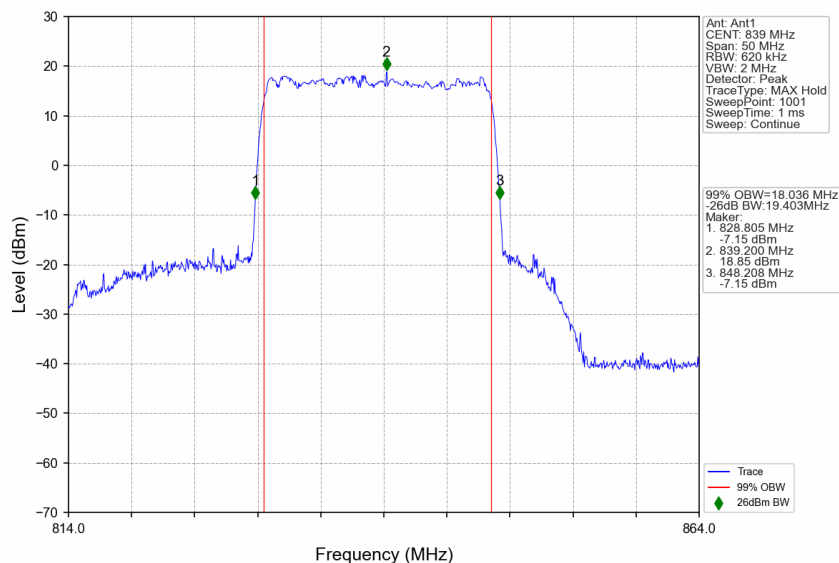
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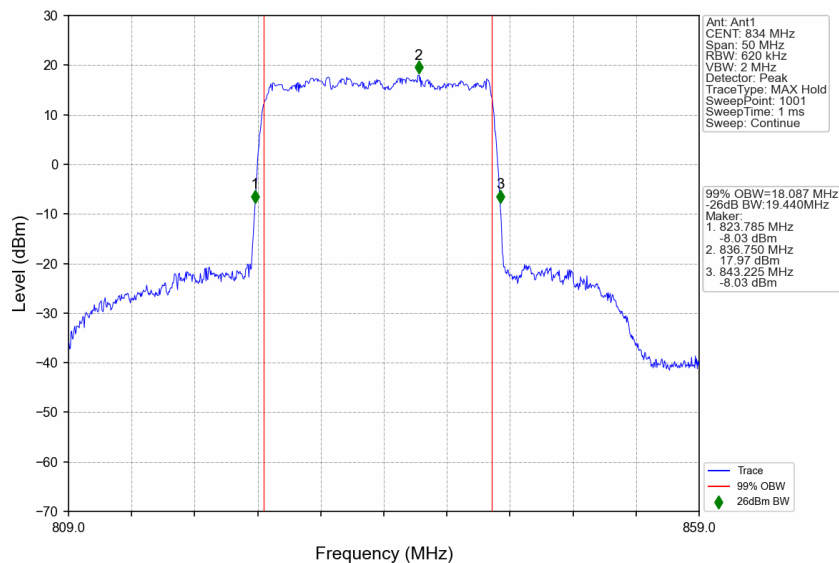
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n5\_15kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM\_16\_QAM\_839MHz\_Outer\_Full



n5\_15kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM\_64\_QAM\_834MHz\_Outer\_Full



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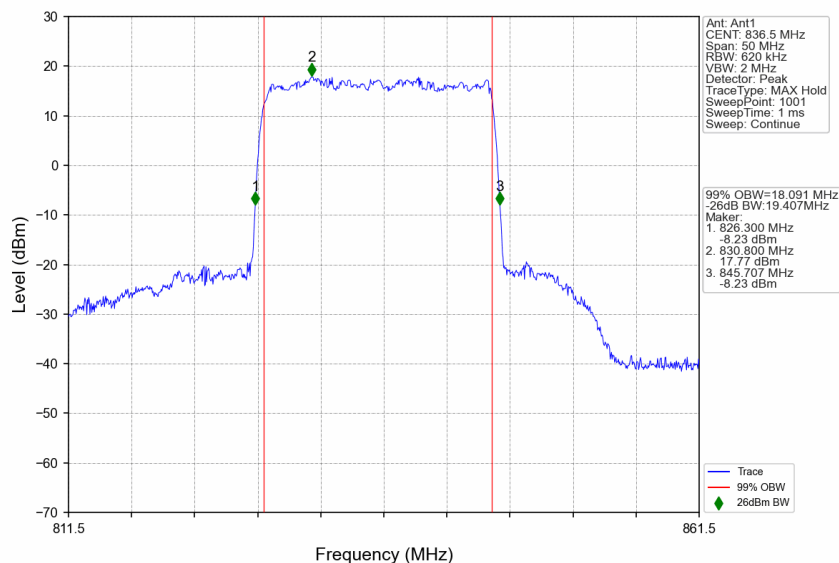
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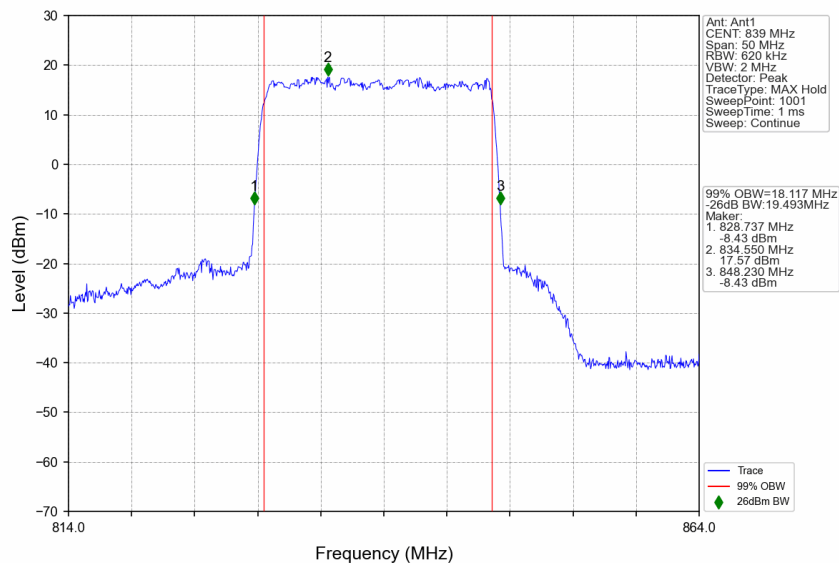
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n5\_15kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM\_64\_QAM\_836.5MHz\_Outer\_Full



n5\_15kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM\_64\_QAM\_839MHz\_Outer\_Full



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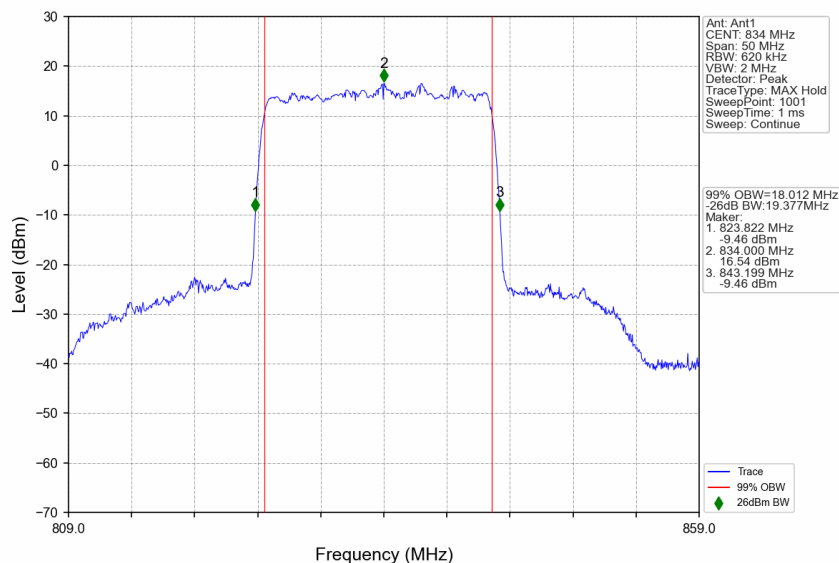
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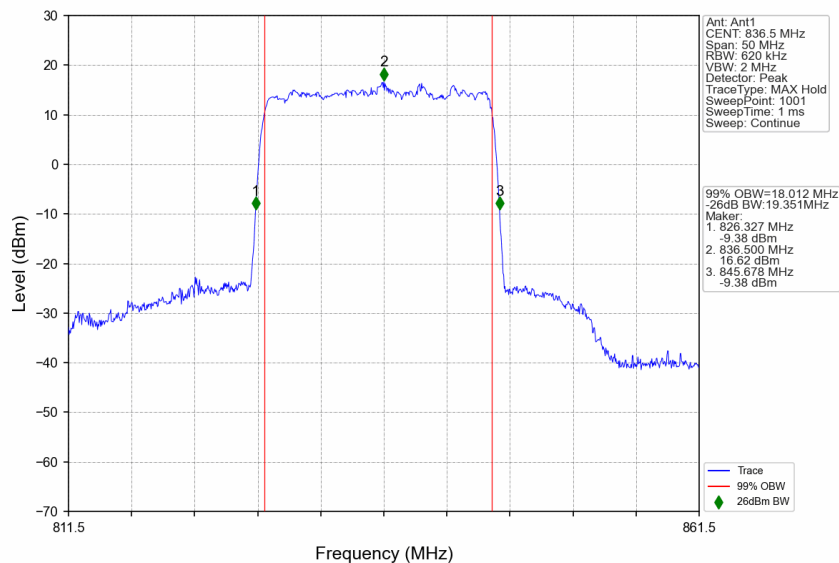
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n5\_15kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM\_256\_QAM\_834MHz\_Outer\_Full



n5\_15kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM\_256\_QAM\_836.5MHz\_Outer\_Full



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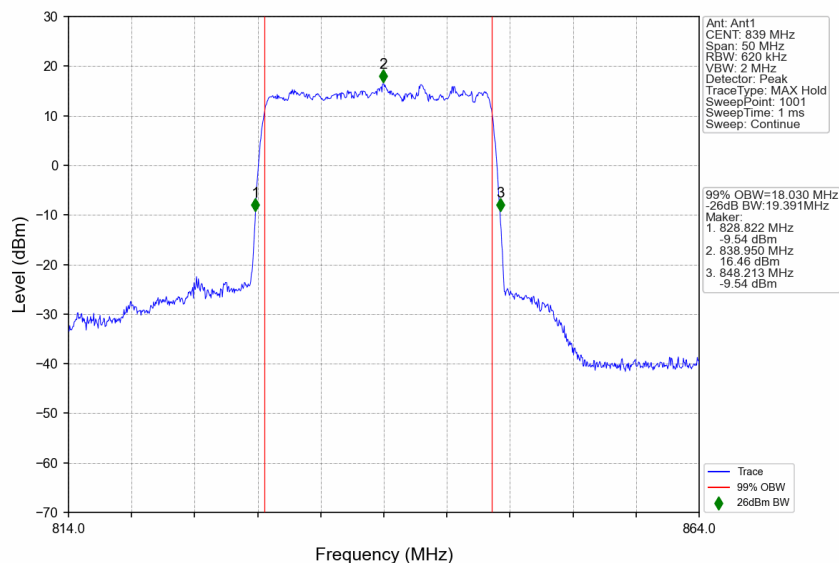
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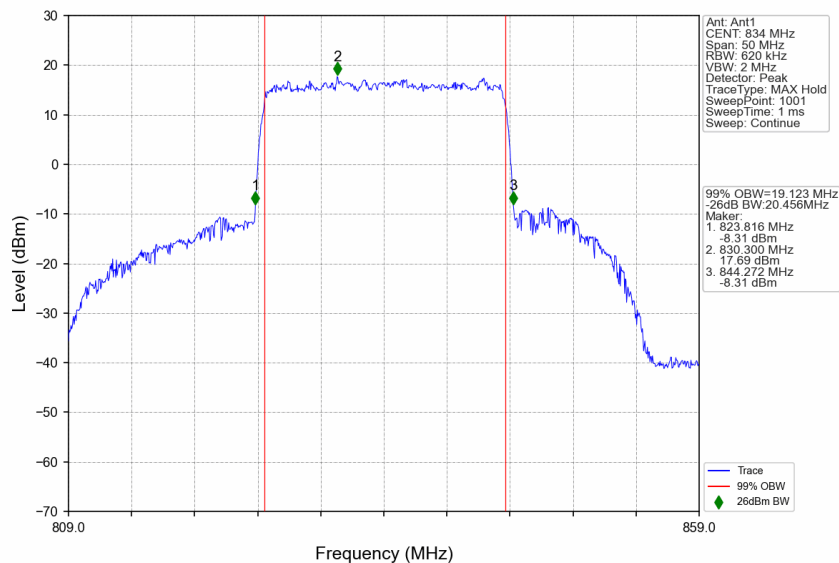
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n5\_15kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM 256 QAM 839MHz\_Outer\_Full



n5\_15kHz\_SISO\_NTNV\_20MHz\_CP-OFDM QPSK 834MHz\_Outer\_Full



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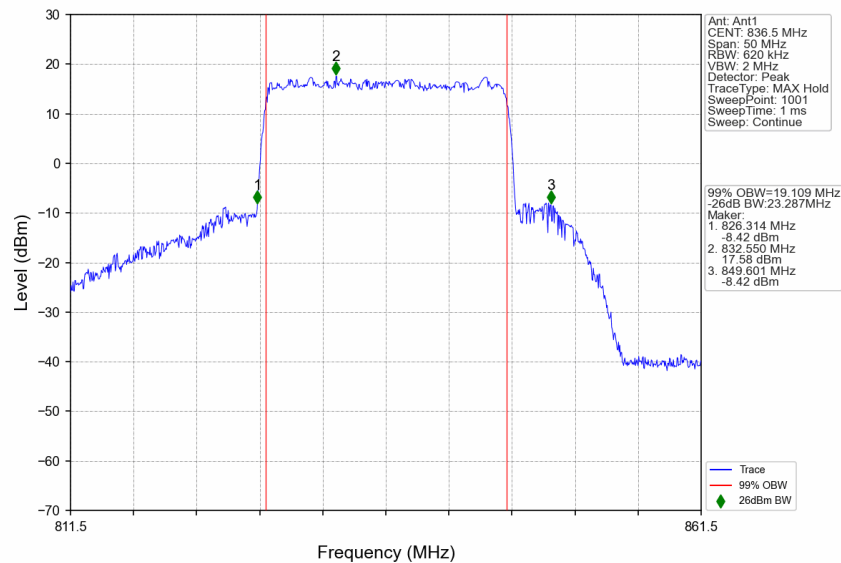
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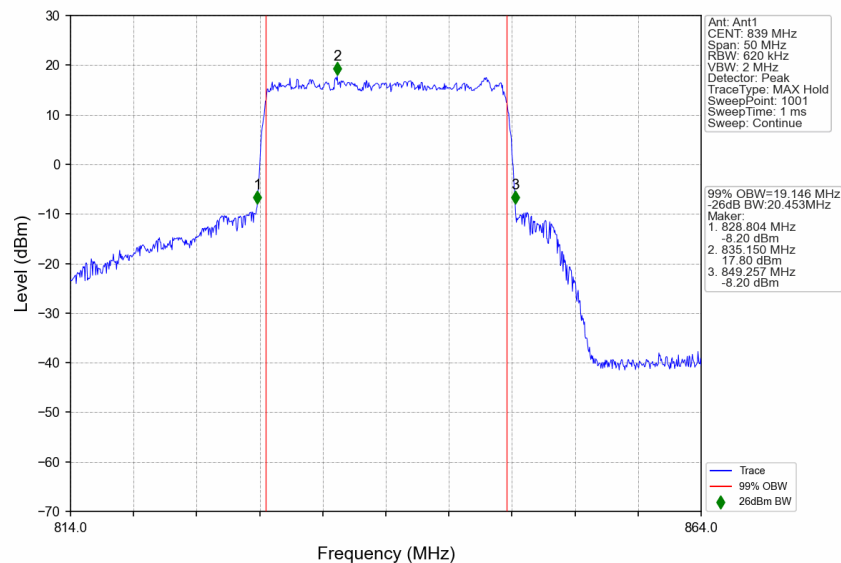
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n5\_15kHz\_SISO\_NTNV\_20MHz\_CP-OFDM QPSK 836.5MHz\_Outer\_Full



n5\_15kHz\_SISO\_NTNV\_20MHz\_CP-OFDM QPSK 839MHz\_Outer\_Full



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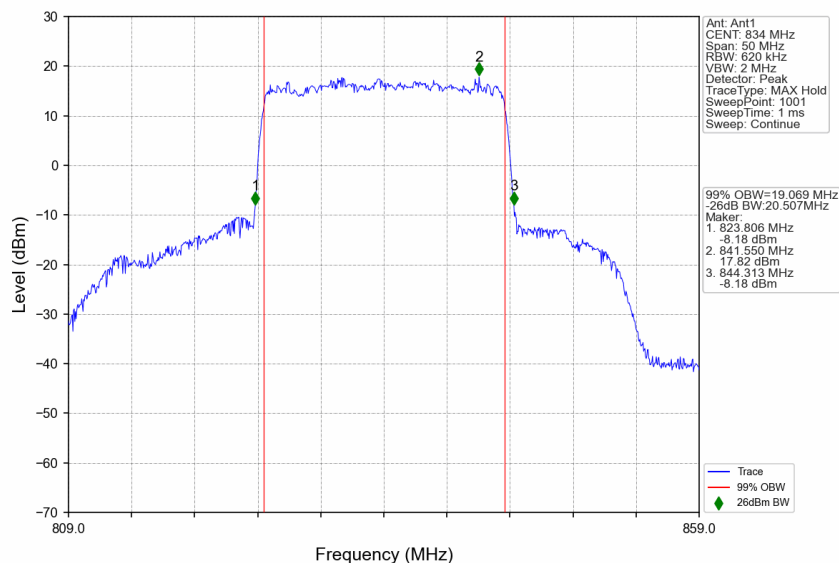
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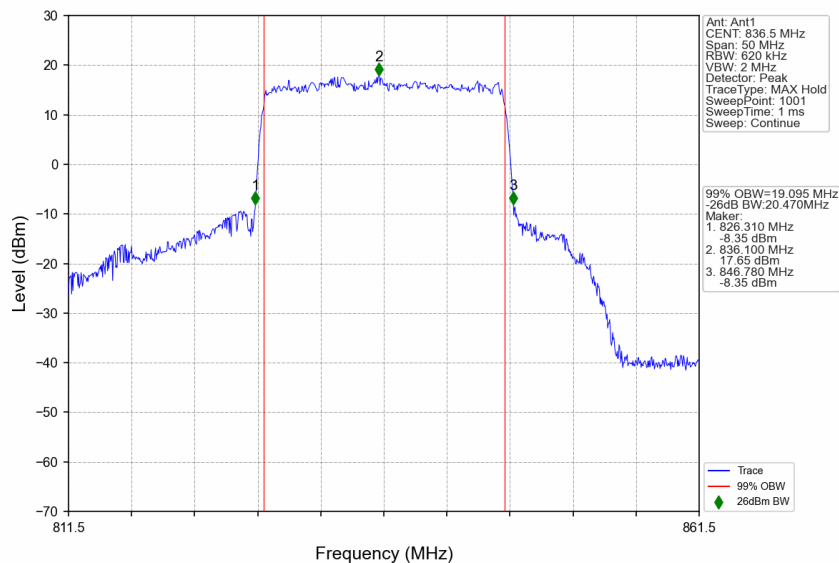
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