

## Appendix for KSCR2207001267AT-FCC-NR-99% & 26dB Bandwidth

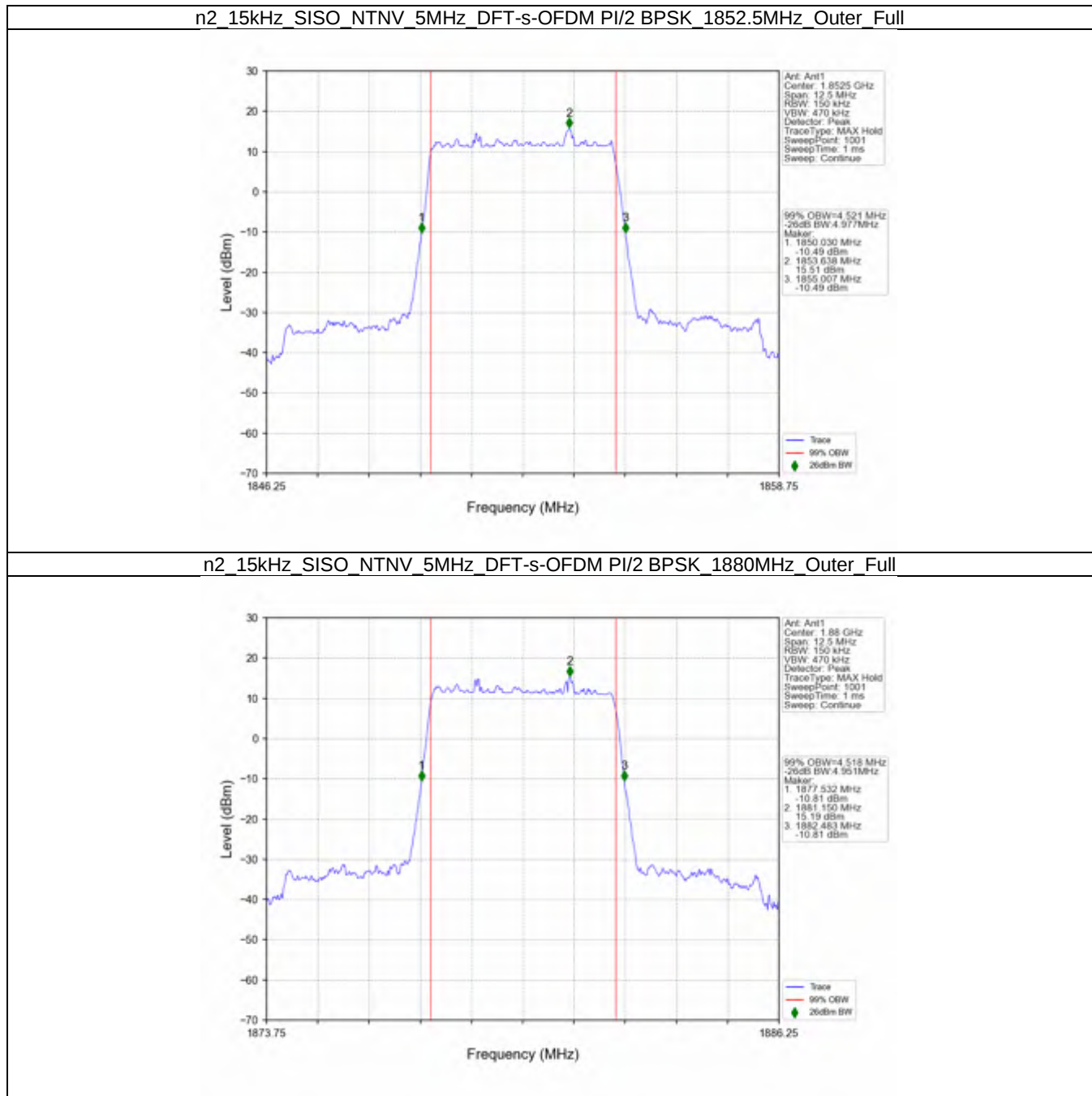
### 1. 99% & 26dB Bandwidth

#### 1.1 n2 15k\_SISO\_5MHz\_NTNV

##### 1.1.1 Test Result

| 5G NR n2 SCS=15kHz SISO 5MHz NTV |                 |               |                     |                      |             |         |
|----------------------------------|-----------------|---------------|---------------------|----------------------|-------------|---------|
| Modulation                       | Frequency (MHz) | RB Allocation | 99% Bandwidth (MHz) | 26dB Bandwidth (MHz) | Limit (MHz) | Verdict |
| DFT-s-OFDM PI/2 BPSK             | 1852.5          | Outer_Full    | 4.52                | 4.98                 | /           | Pass    |
|                                  | 1880            | Outer_Full    | 4.52                | 4.95                 | /           | Pass    |
|                                  | 1907.5          | Outer_Full    | 4.50                | 4.94                 | /           | Pass    |
| DFT-s-OFDM QPSK                  | 1852.5          | Outer_Full    | 4.54                | 4.98                 | /           | Pass    |
|                                  | 1880            | Outer_Full    | 4.55                | 5.18                 | /           | Pass    |
|                                  | 1907.5          | Outer_Full    | 4.54                | 5.00                 | /           | Pass    |
| DFT-s-OFDM 16 QAM                | 1852.5          | Outer_Full    | 4.54                | 4.99                 | /           | Pass    |
|                                  | 1880            | Outer_Full    | 4.53                | 5.00                 | /           | Pass    |
|                                  | 1907.5          | Outer_Full    | 4.53                | 5.03                 | /           | Pass    |
| DFT-s-OFDM 64 QAM                | 1852.5          | Outer_Full    | 4.55                | 5.30                 | /           | Pass    |
|                                  | 1880            | Outer_Full    | 4.54                | 5.03                 | /           | Pass    |
|                                  | 1907.5          | Outer_Full    | 4.54                | 4.98                 | /           | Pass    |
| DFT-s-OFDM 256 QAM               | 1852.5          | Outer_Full    | 4.58                | 5.43                 | /           | Pass    |
|                                  | 1880            | Outer_Full    | 4.55                | 5.31                 | /           | Pass    |
|                                  | 1907.5          | Outer_Full    | 4.53                | 5.54                 | /           | Pass    |
| CP-OFDM QPSK                     | 1852.5          | Outer_Full    | 4.51                | 5.02                 | /           | Pass    |
|                                  | 1880            | Outer_Full    | 4.51                | 5.32                 | /           | Pass    |
|                                  | 1907.5          | Outer_Full    | 4.50                | 4.99                 | /           | Pass    |
| CP-OFDM 16 QAM                   | 1852.5          | Outer_Full    | 4.51                | 5.18                 | /           | Pass    |
|                                  | 1880            | Outer_Full    | 4.50                | 5.00                 | /           | Pass    |
|                                  | 1907.5          | Outer_Full    | 4.50                | 4.99                 | /           | Pass    |
| CP-OFDM 64 QAM                   | 1852.5          | Outer_Full    | 4.50                | 5.00                 | /           | Pass    |
|                                  | 1880            | Outer_Full    | 4.51                | 5.00                 | /           | Pass    |
|                                  | 1907.5          | Outer_Full    | 4.50                | 5.12                 | /           | Pass    |
| CP-OFDM 256 QAM                  | 1852.5          | Outer_Full    | 4.51                | 5.05                 | /           | Pass    |
|                                  | 1880            | Outer_Full    | 4.53                | 5.41                 | /           | Pass    |
|                                  | 1907.5          | Outer_Full    | 4.52                | 5.04                 | /           | Pass    |

### 1.1.2 Test Graph

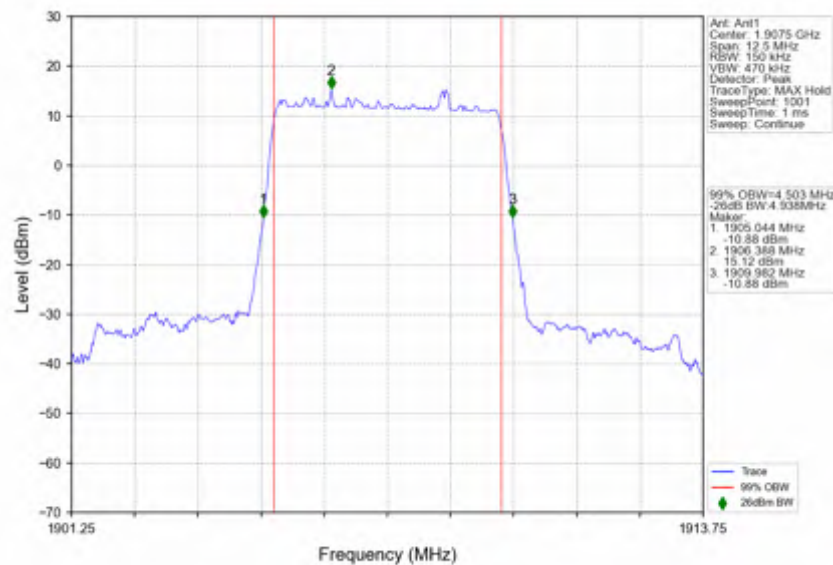


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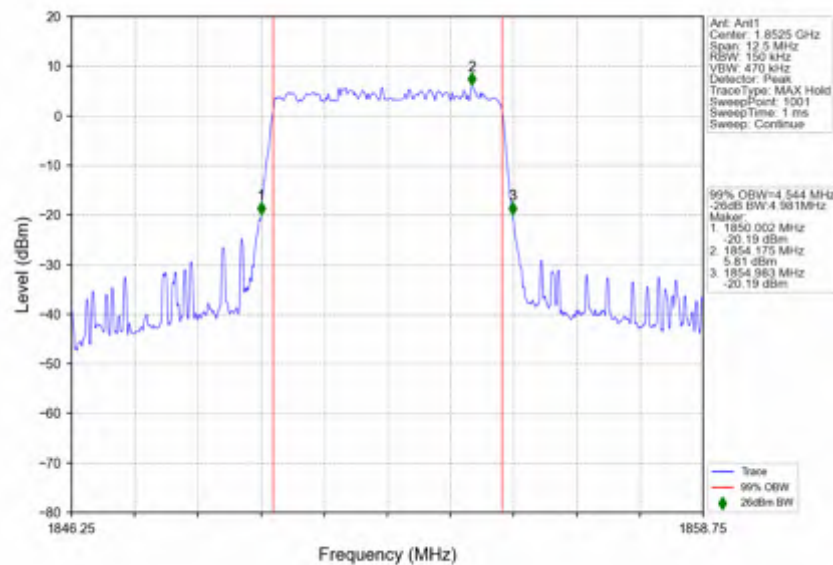
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n2\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM PI/2 BPSK\_1907.5MHz\_Outer\_Full



n2\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM QPSK\_1852.5MHz\_Outer\_Full



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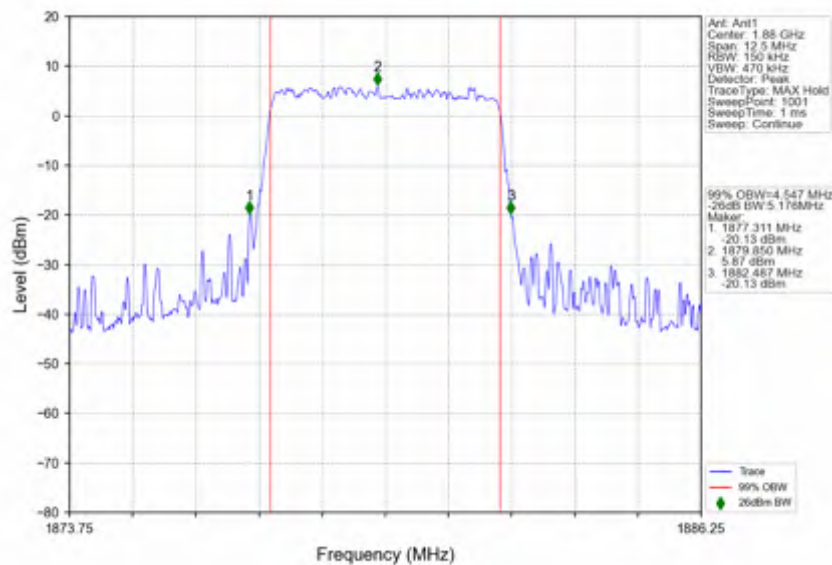
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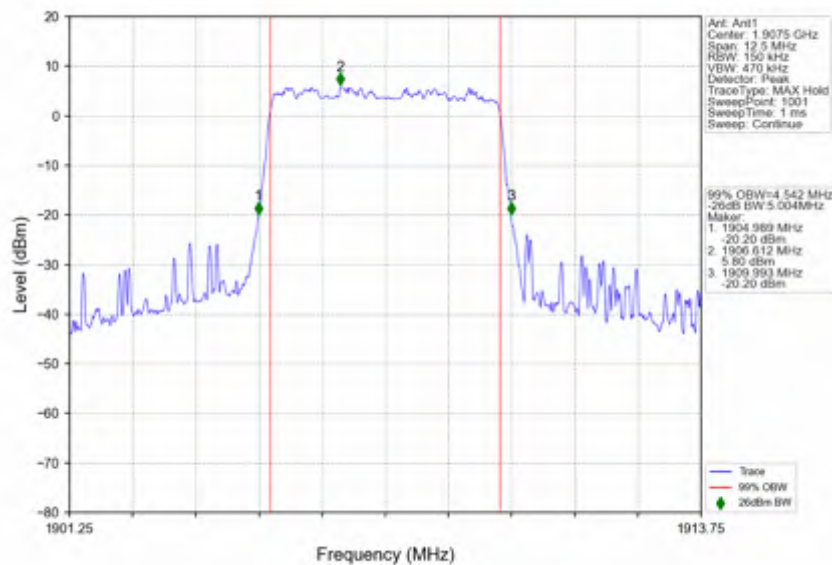
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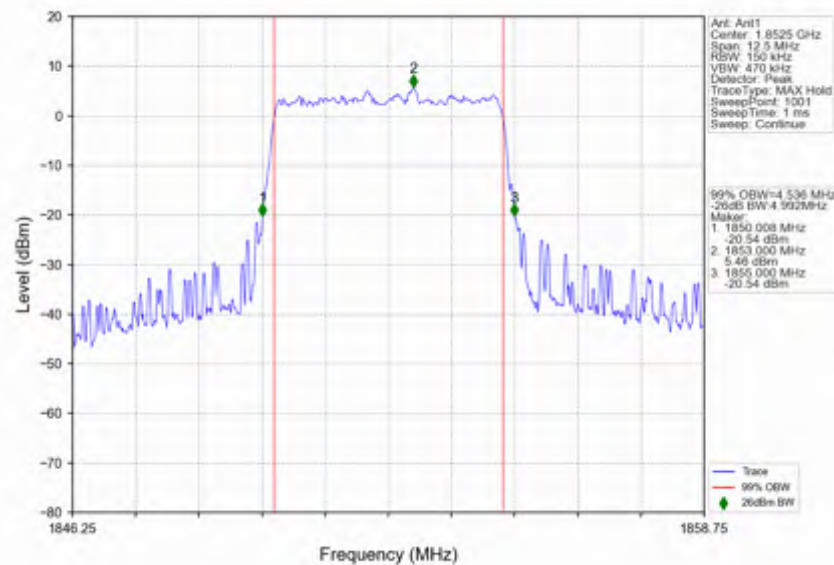
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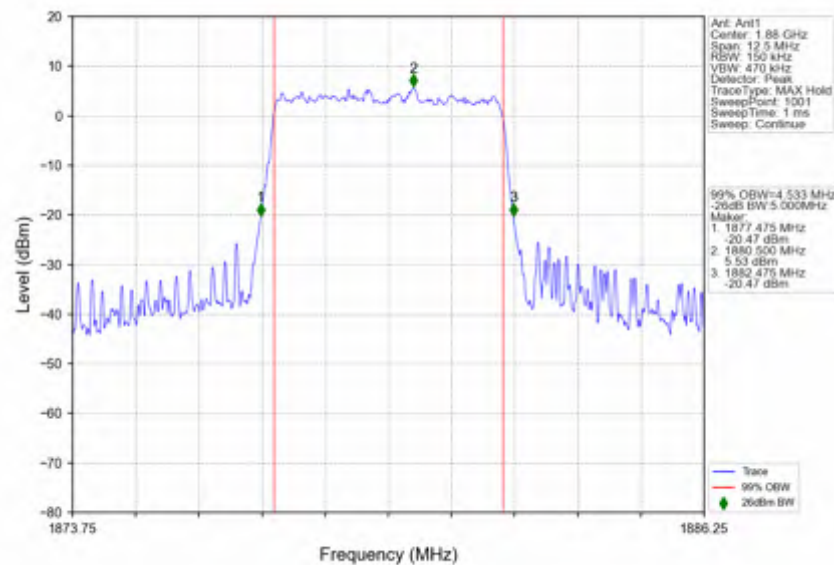
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n2\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM\_16\_QAM\_1852.5MHz\_Outer\_Full



n2\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM\_16\_QAM\_1880MHz\_Outer\_Full



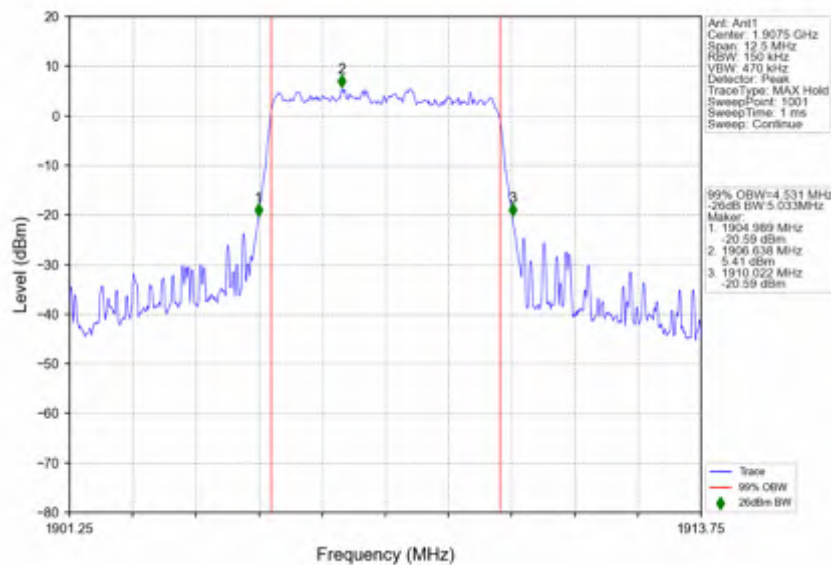
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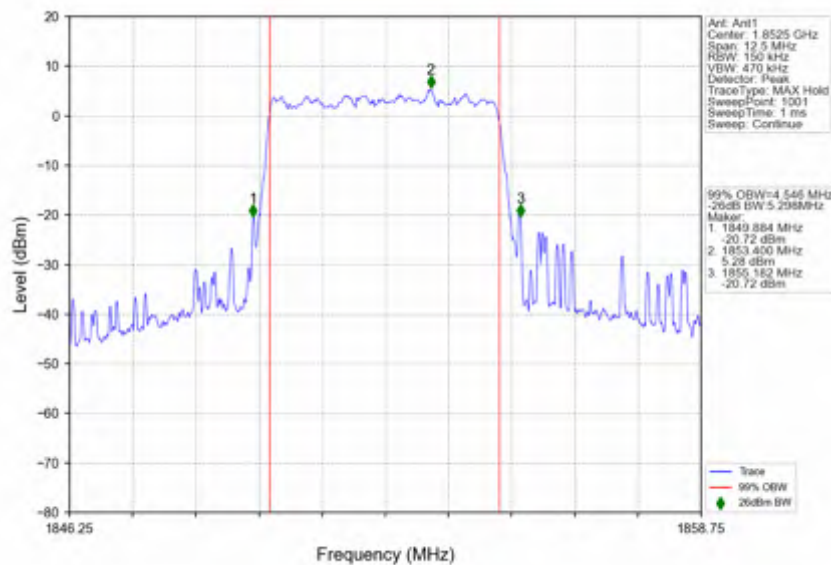
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n2\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM 16 QAM\_1907.5MHz\_Outer\_Full



n2\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM 64 QAM\_1852.5MHz\_Outer\_Full



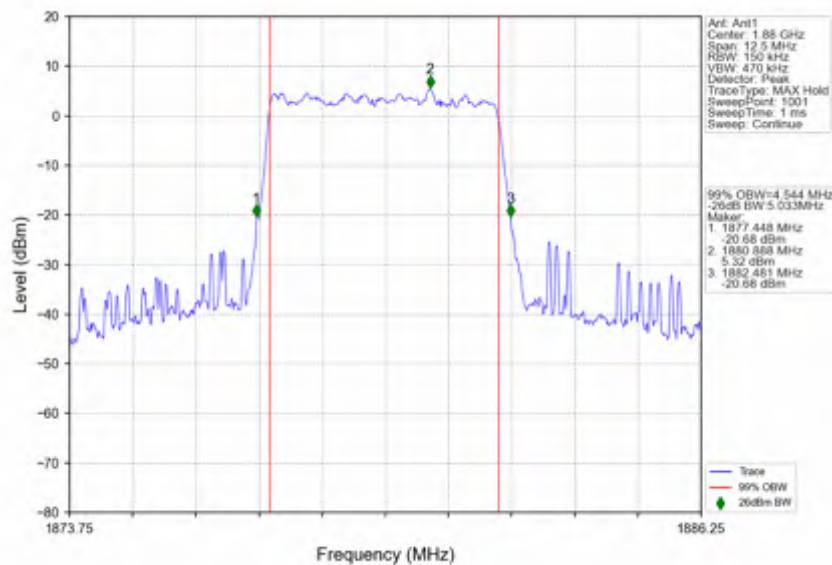
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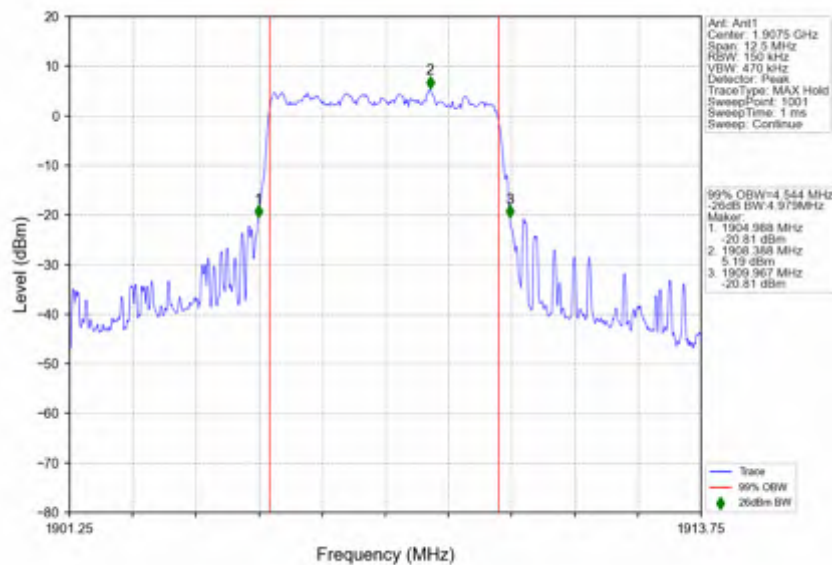
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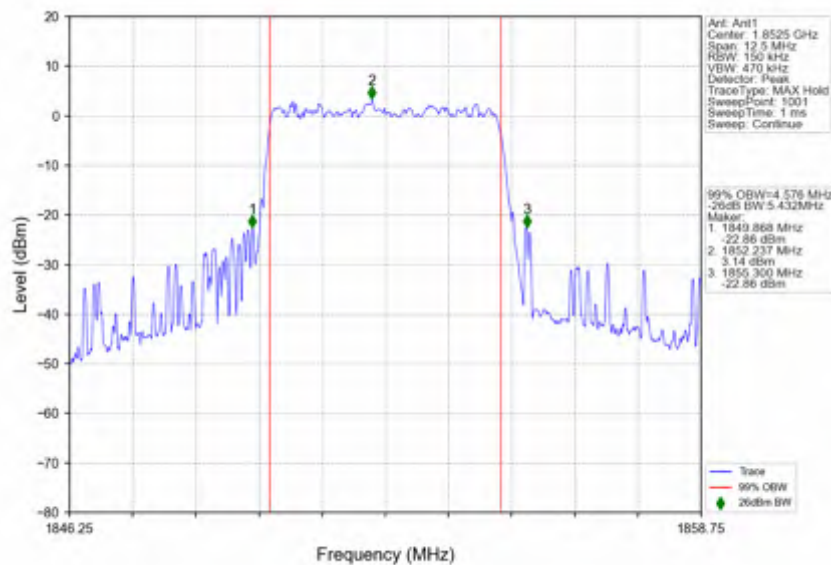
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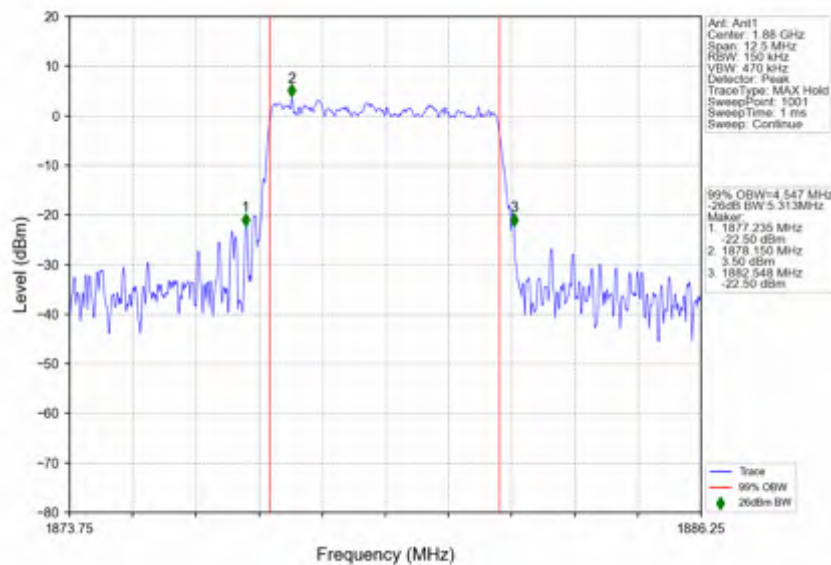
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n2\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM\_256\_QAM\_1880MHz\_Outer\_Full



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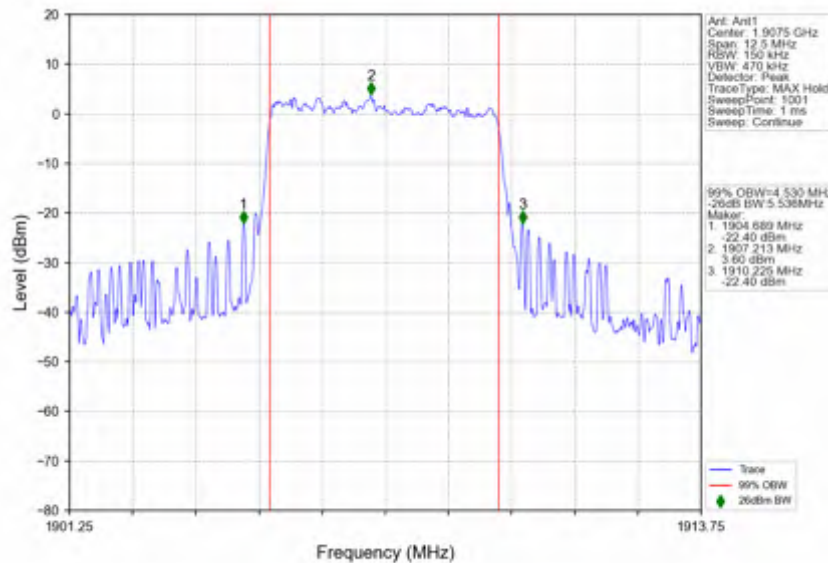
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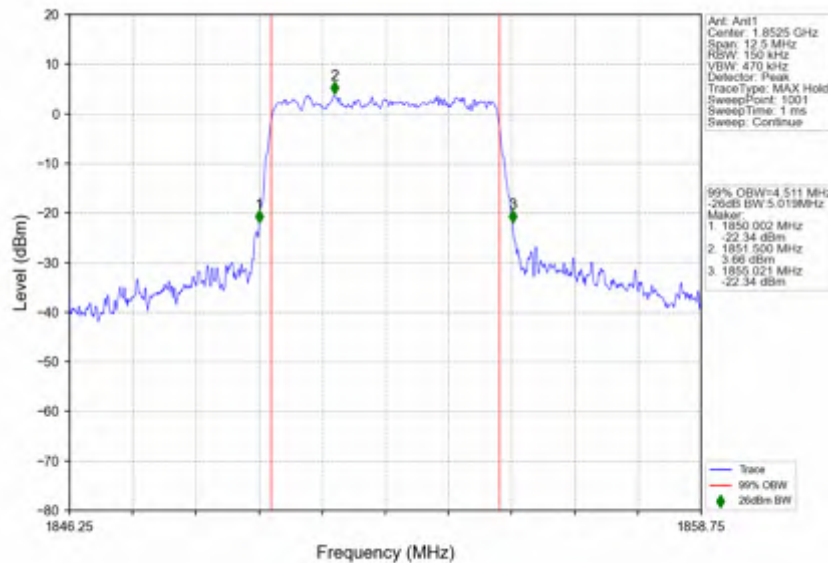
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n2\_15kHz\_SISO\_NTNV\_5MHz\_CP-OFDM\_QPSK\_1852.5MHz\_Outer\_Full



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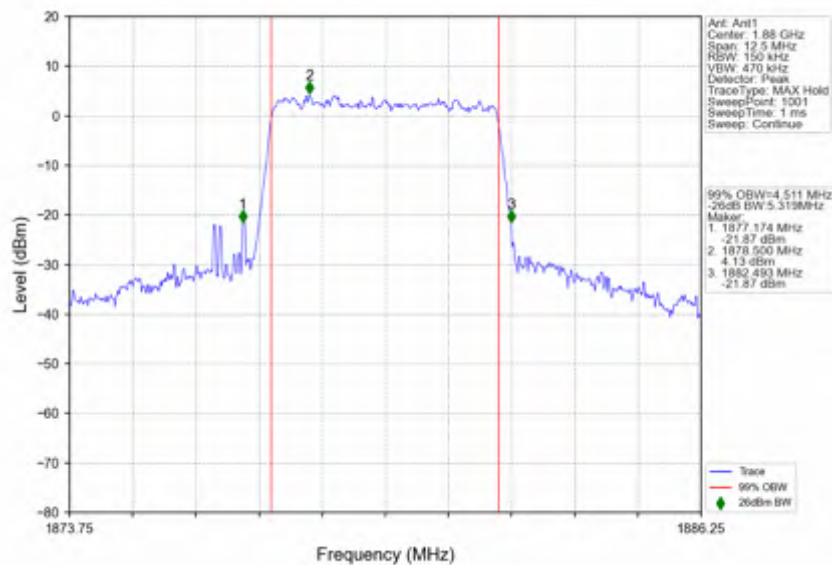
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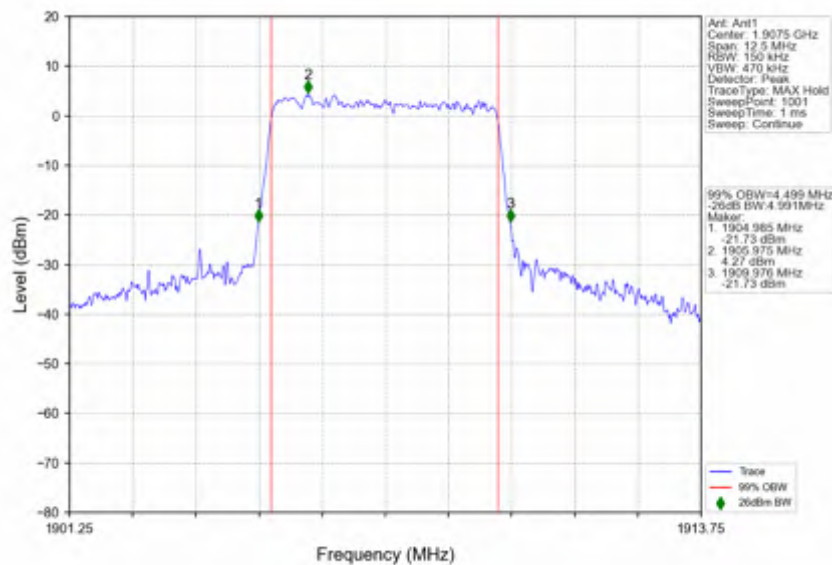
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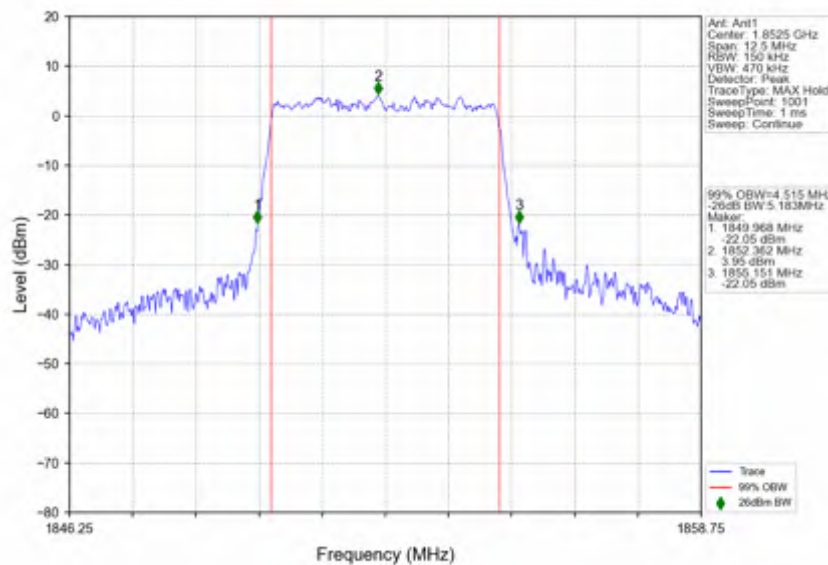
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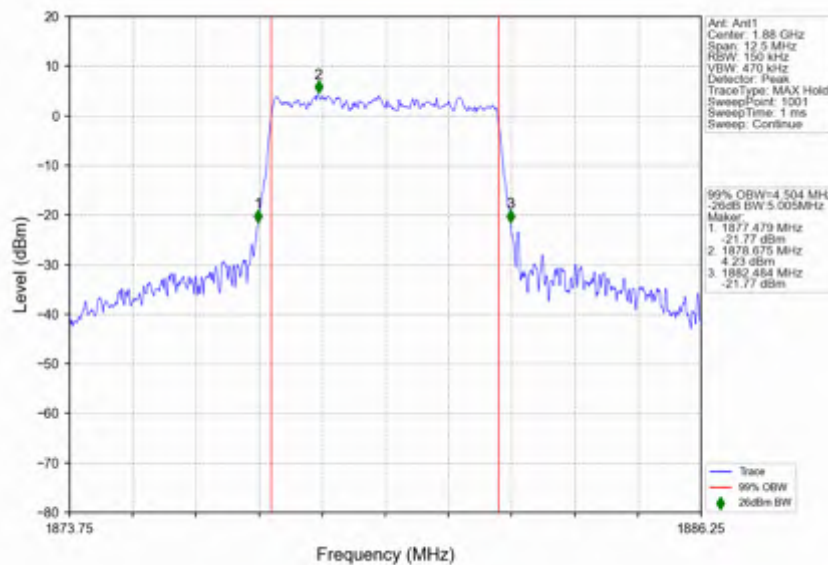
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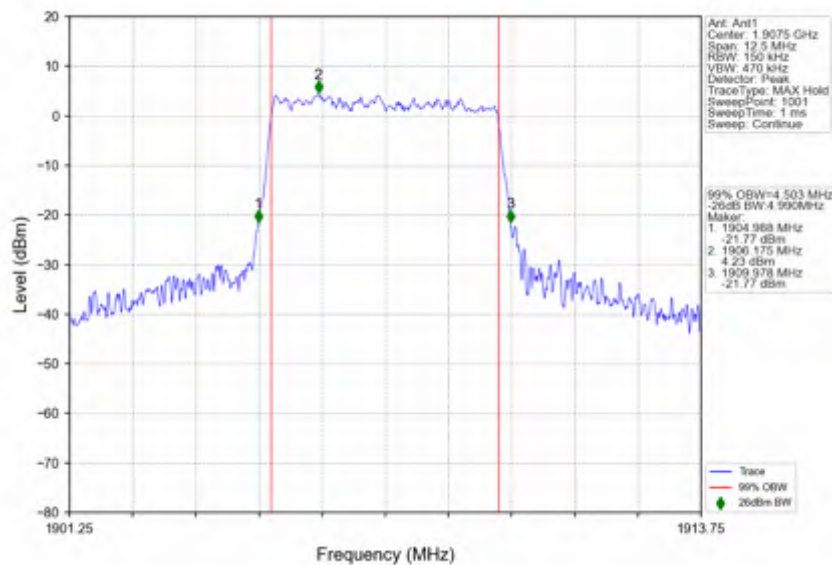
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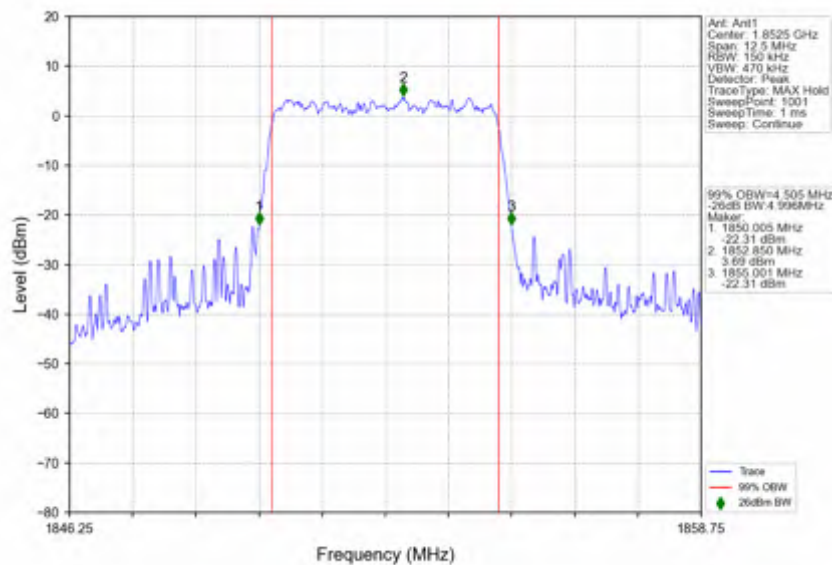
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n2\_15kHz\_SISO\_NTNV\_5MHz\_CP-OFDM\_64 QAM\_1852.5MHz\_Outer\_Full



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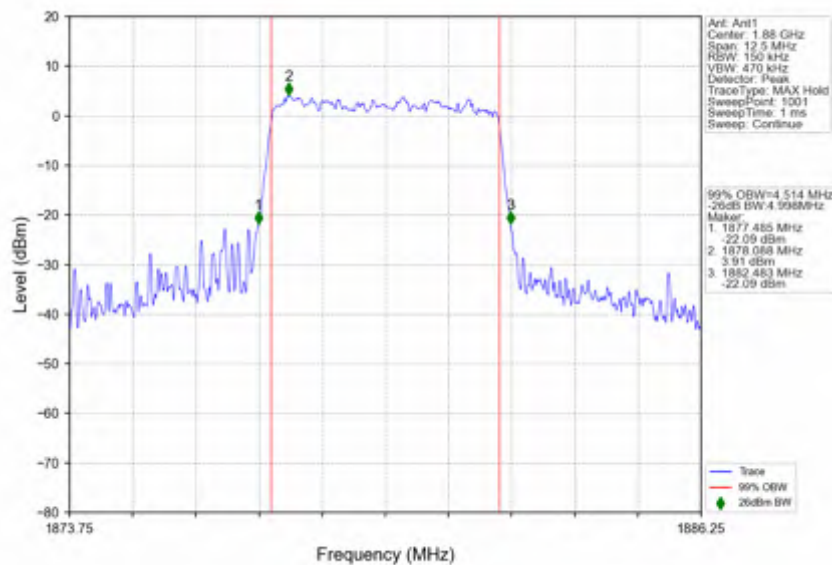
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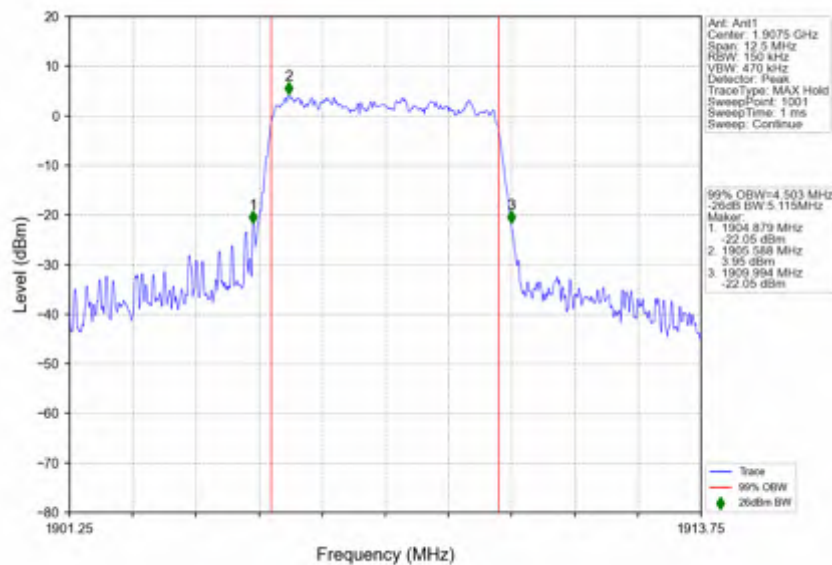
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n2\_15kHz\_SISO\_NTNV\_5MHz\_CP-OFDM 64 QAM\_1880MHz\_Outer\_Full



n2\_15kHz\_SISO\_NTNV\_5MHz\_CP-OFDM 64 QAM\_1907.5MHz\_Outer\_Full



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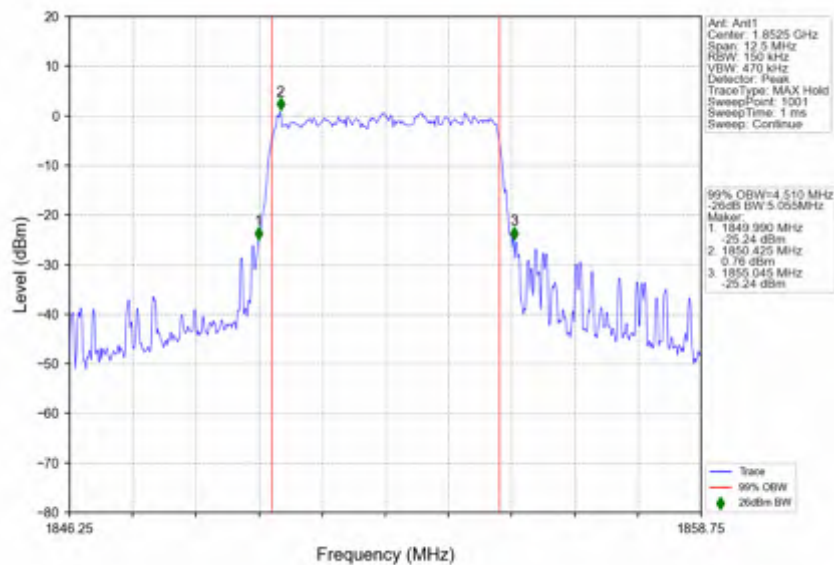
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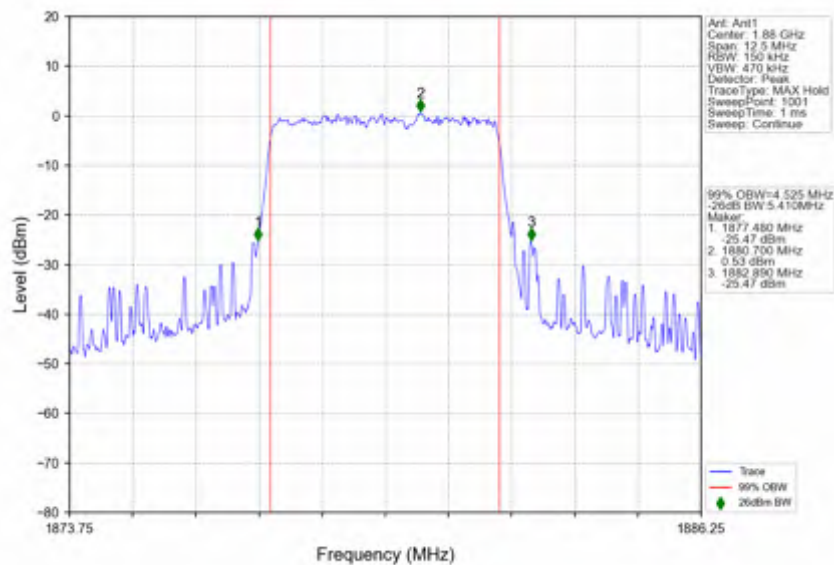
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n2\_15kHz\_SISO\_NTNV\_5MHz\_CP-OFDM 256 QAM\_1852.5MHz\_Outer\_Full



n2\_15kHz\_SISO\_NTNV\_5MHz\_CP-OFDM 256 QAM\_1880MHz\_Outer\_Full



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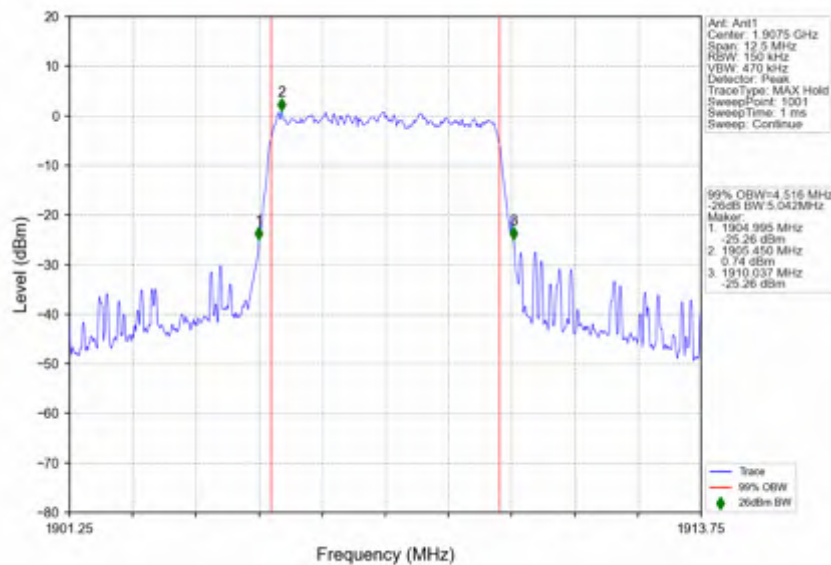
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n2\_15kHz\_SISO\_NTNV\_5MHz\_CP-OFDM\_256\_QAM\_1907.5MHz\_Outer\_Full



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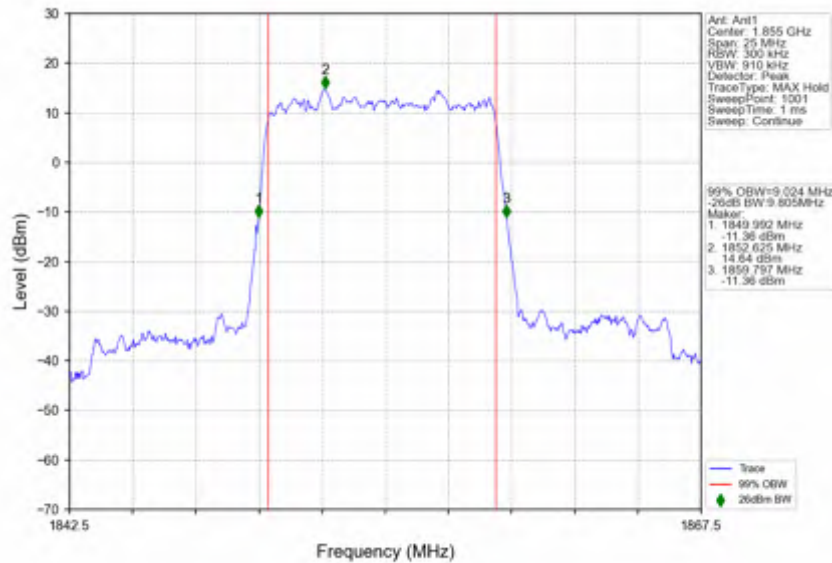
## 1.2 15k\_SISO\_10MHz\_NTNV

### 1.2.1 Test Result

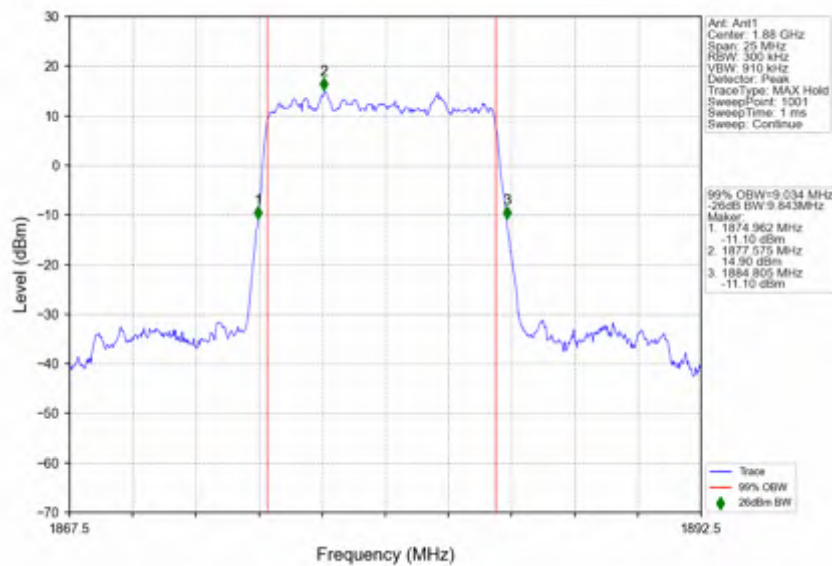
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|-----------------------------------|-----------------|---------------|---------------------|----------------------|-------------|---------|
| Modulation                        | Frequency (MHz) | RB Allocation | 99% Bandwidth (MHz) | 26dB Bandwidth (MHz) | Limit (MHz) | Verdict |
| DFT-s-OFDM PI/2 BPSK              | 1855            | Outer_Full    | 9.02                | 9.80                 | /           | Pass    |
|                                   | 1880            | Outer_Full    | 9.03                | 9.84                 | /           | Pass    |
|                                   | 1905            | Outer_Full    | 9.02                | 9.88                 | /           | Pass    |
| DFT-s-OFDM QPSK                   | 1855            | Outer_Full    | 9.02                | 10.02                | /           | Pass    |
|                                   | 1880            | Outer_Full    | 9.03                | 9.96                 | /           | Pass    |
|                                   | 1905            | Outer_Full    | 9.03                | 9.98                 | /           | Pass    |
| DFT-s-OFDM 16 QAM                 | 1855            | Outer_Full    | 9.02                | 9.95                 | /           | Pass    |
|                                   | 1880            | Outer_Full    | 9.04                | 9.98                 | /           | Pass    |
|                                   | 1905            | Outer_Full    | 9.03                | 9.98                 | /           | Pass    |
| DFT-s-OFDM 64 QAM                 | 1855            | Outer_Full    | 9.03                | 9.86                 | /           | Pass    |
|                                   | 1880            | Outer_Full    | 9.04                | 9.93                 | /           | Pass    |
|                                   | 1905            | Outer_Full    | 9.04                | 9.95                 | /           | Pass    |
| DFT-s-OFDM 256 QAM                | 1855            | Outer_Full    | 9.00                | 9.84                 | /           | Pass    |
|                                   | 1880            | Outer_Full    | 9.02                | 9.85                 | /           | Pass    |
|                                   | 1905            | Outer_Full    | 9.02                | 9.99                 | /           | Pass    |
| CP-OFDM QPSK                      | 1855            | Outer_Full    | 9.34                | 11.12                | /           | Pass    |
|                                   | 1880            | Outer_Full    | 9.36                | 11.17                | /           | Pass    |
|                                   | 1905            | Outer_Full    | 9.36                | 10.68                | /           | Pass    |
| CP-OFDM 16 QAM                    | 1855            | Outer_Full    | 9.36                | 11.53                | /           | Pass    |
|                                   | 1880            | Outer_Full    | 9.38                | 10.73                | /           | Pass    |
|                                   | 1905            | Outer_Full    | 9.36                | 10.28                | /           | Pass    |
| CP-OFDM 64 QAM                    | 1855            | Outer_Full    | 9.37                | 11.42                | /           | Pass    |
|                                   | 1880            | Outer_Full    | 9.37                | 10.10                | /           | Pass    |
|                                   | 1905            | Outer_Full    | 9.37                | 10.47                | /           | Pass    |
| CP-OFDM 256 QAM                   | 1855            | Outer_Full    | 9.38                | 10.51                | /           | Pass    |
|                                   | 1880            | Outer_Full    | 9.40                | 10.19                | /           | Pass    |
|                                   | 1905            | Outer_Full    | 9.37                | 10.20                | /           | Pass    |

## 1.2.2 Test Graph

n2\_15kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM PI/2 BPSK\_1855MHz\_Outer\_Full



n2\_15kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM PI/2 BPSK\_1880MHz\_Outer\_Full



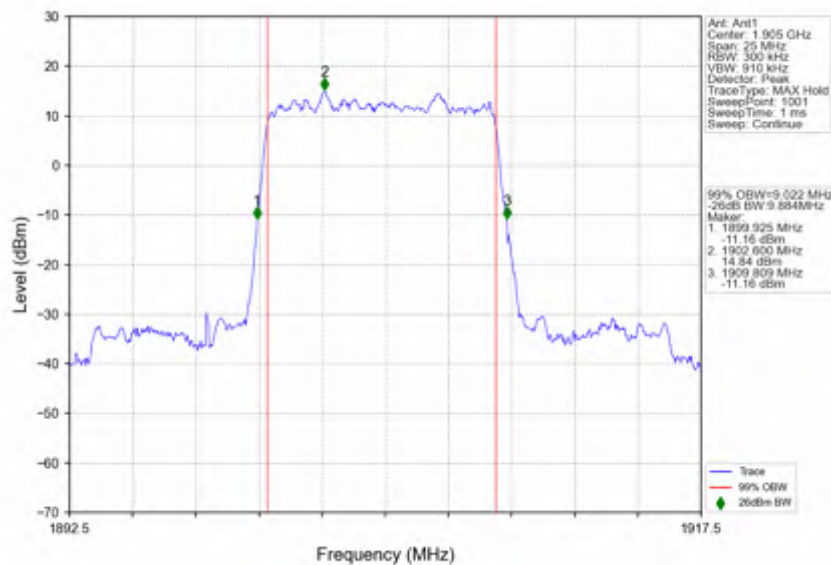
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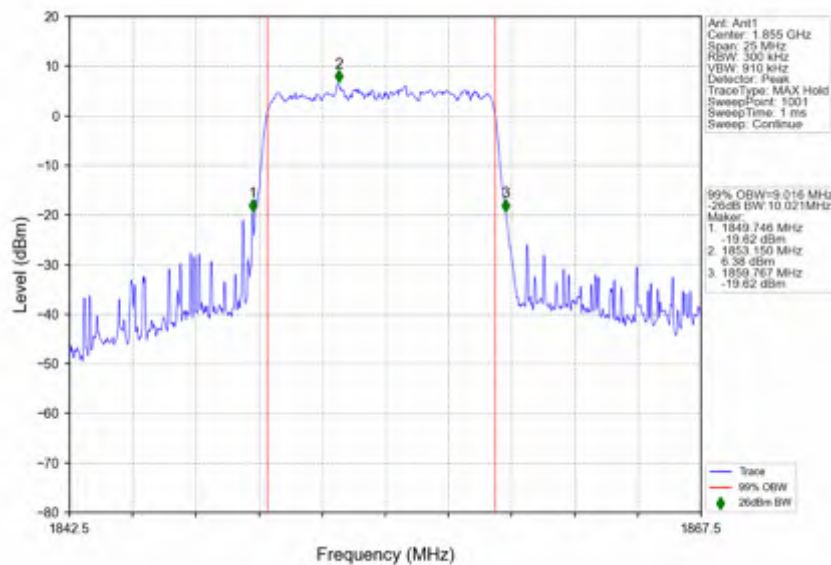
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n2\_15kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM PI/2 BPSK\_1905MHz\_Outer\_Full



n2\_15kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM QPSK\_1855MHz\_Outer\_Full



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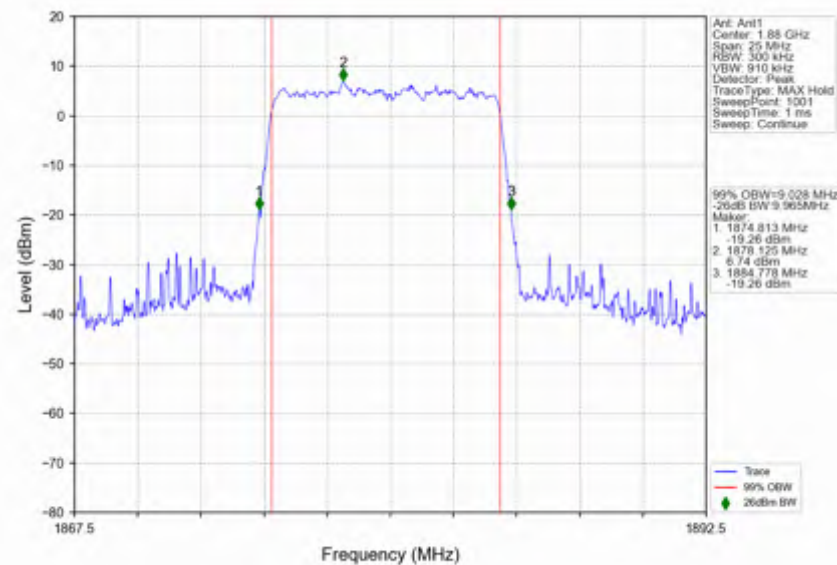
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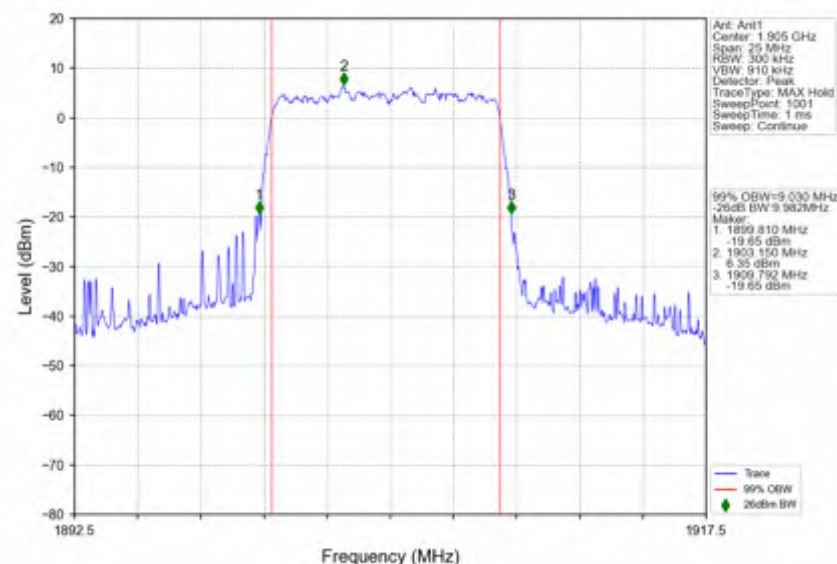
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n2\_15kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM\_QPSK\_1905MHz\_Outer\_Full



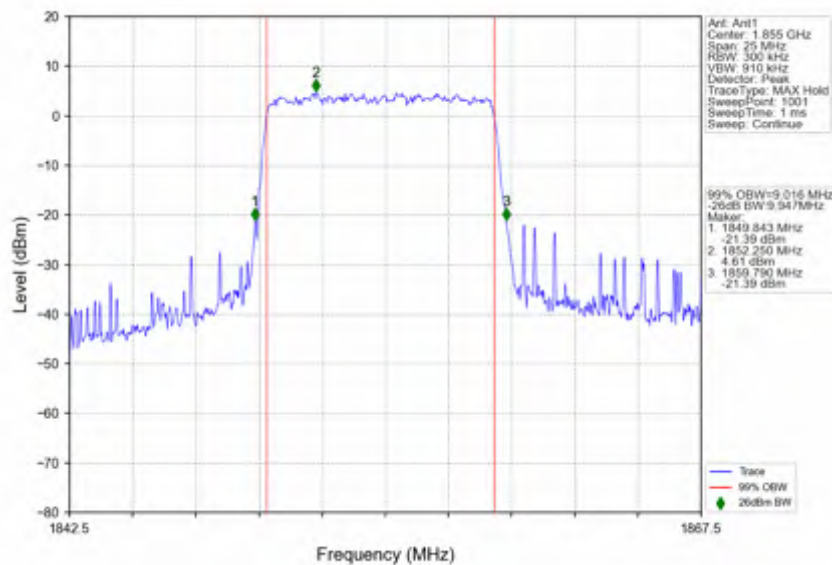
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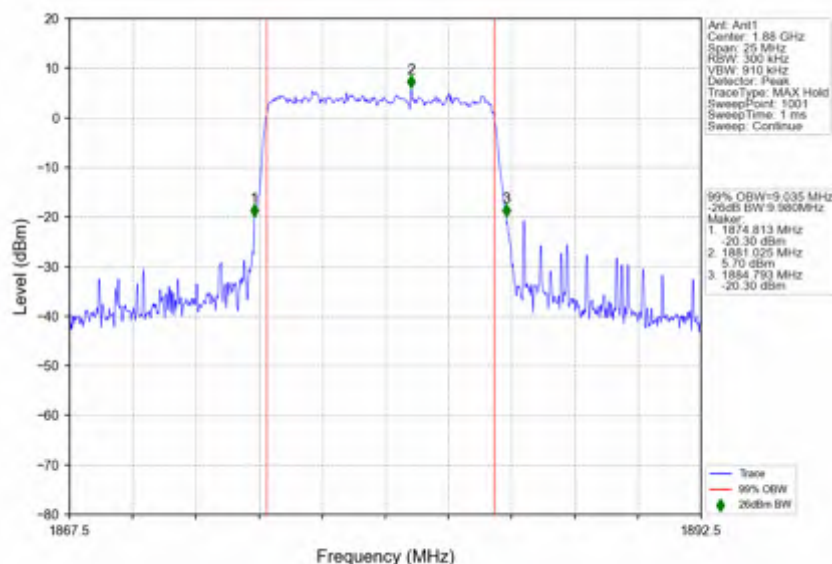
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n2\_15kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM\_16\_QAM\_1855MHz\_Outer\_Full



n2\_15kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM\_16\_QAM\_1880MHz\_Outer\_Full



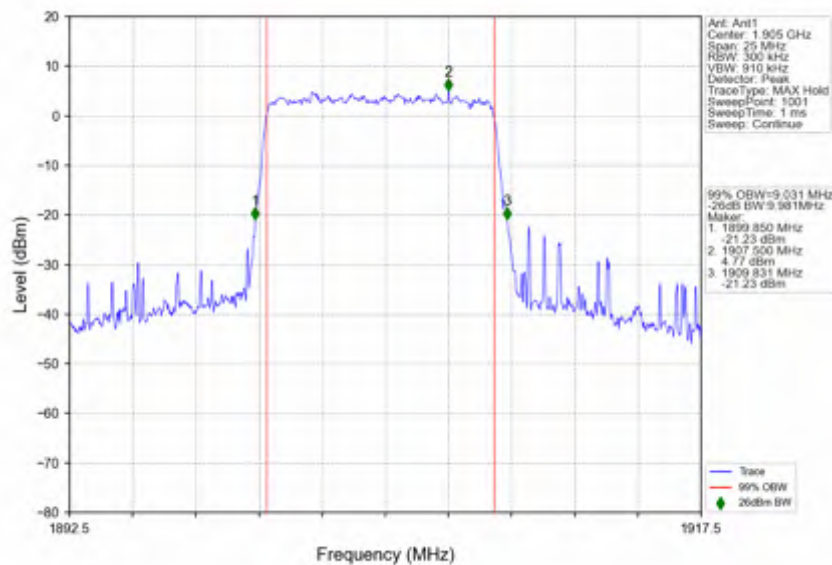
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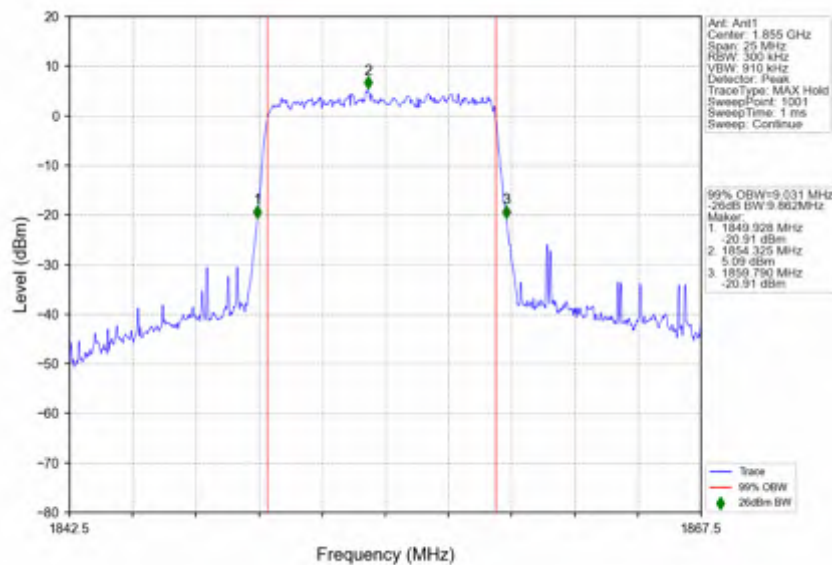
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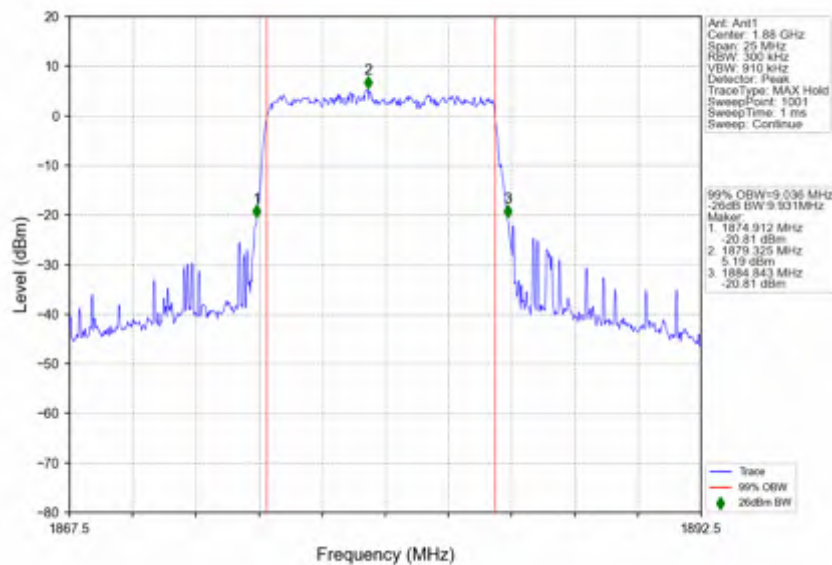
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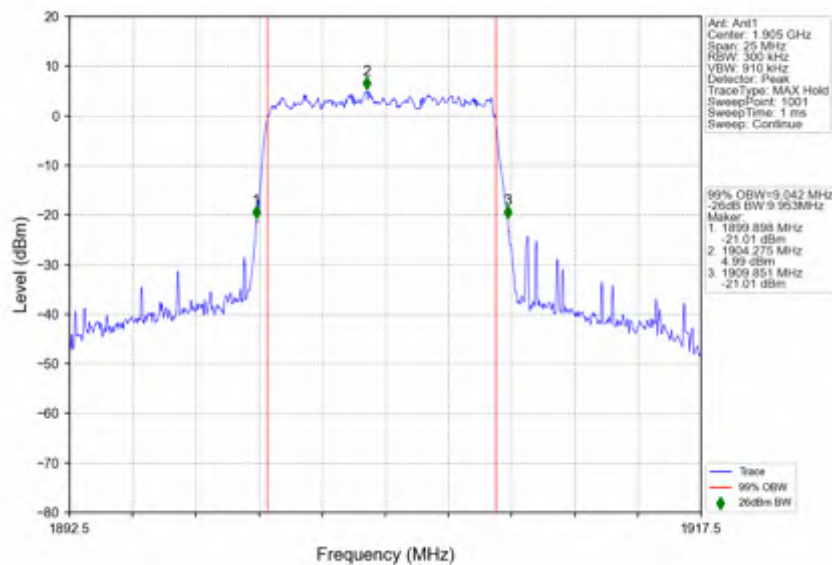
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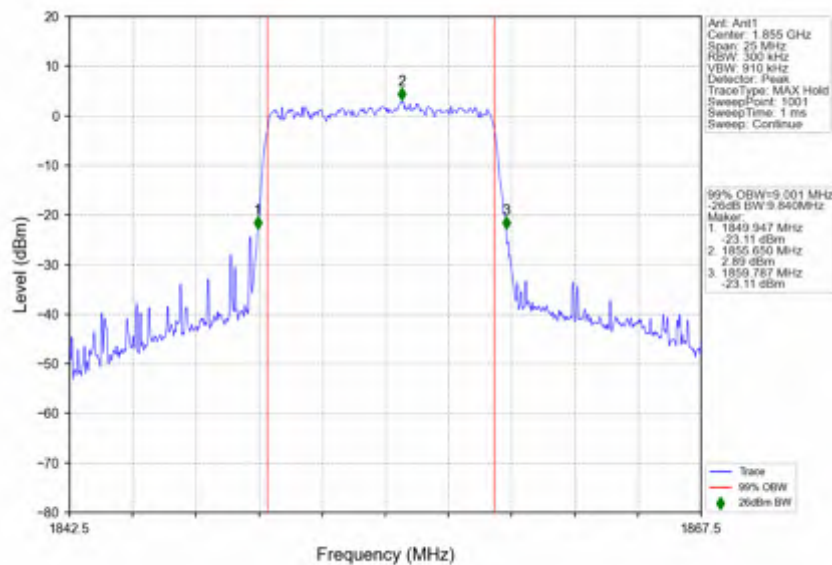
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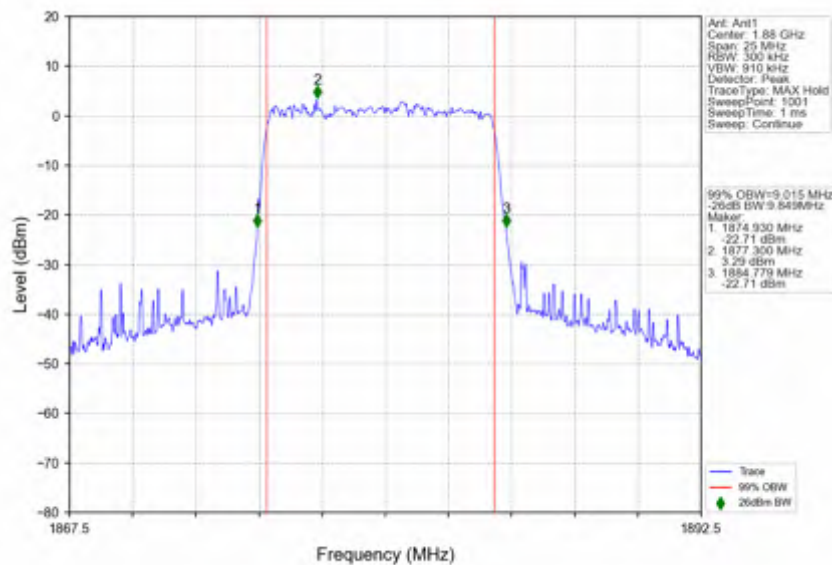
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n2\_15kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM\_256\_QAM\_1880MHz\_Outer\_Full



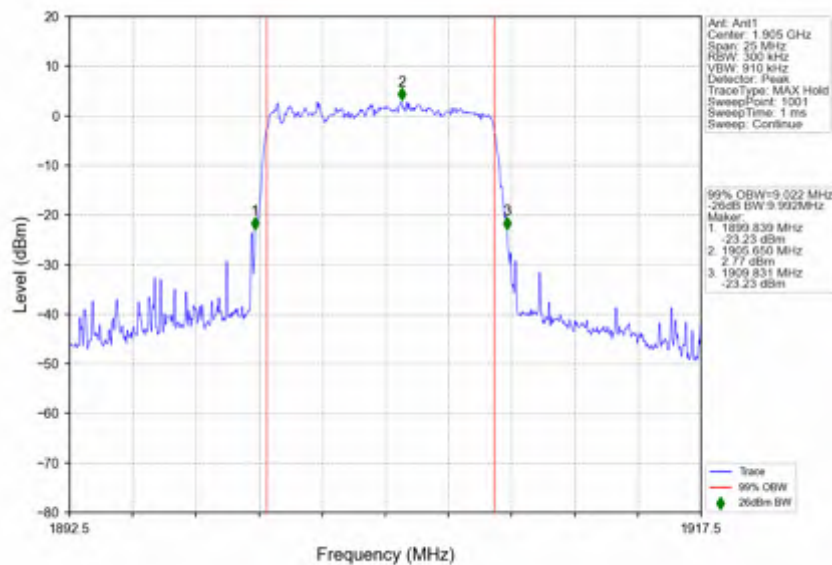
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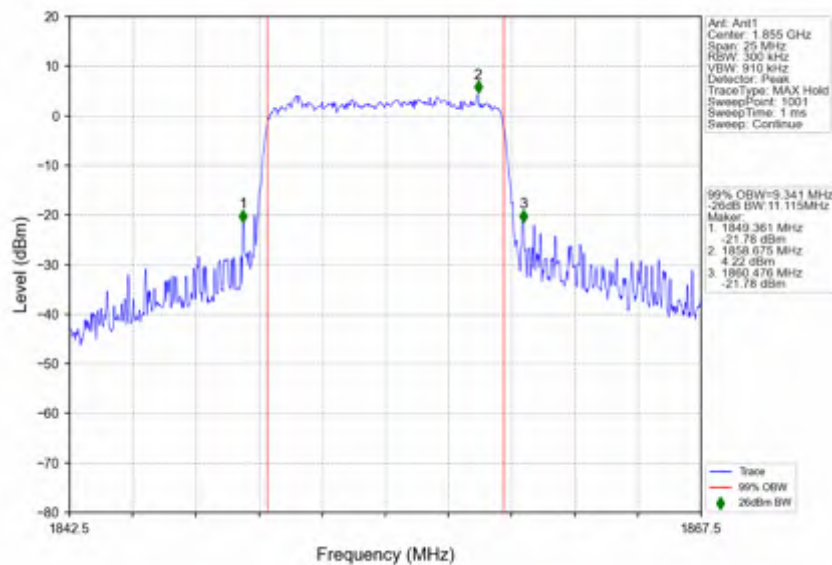
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n2 15kHz SISO NTV 10MHz DFT-s-OFDM 256 QAM 1905MHz Outer Full



n2\_15kHz\_SISO\_NTNV\_10MHz\_CP-OFDM\_QPSK\_1855MHz\_Outer\_Full

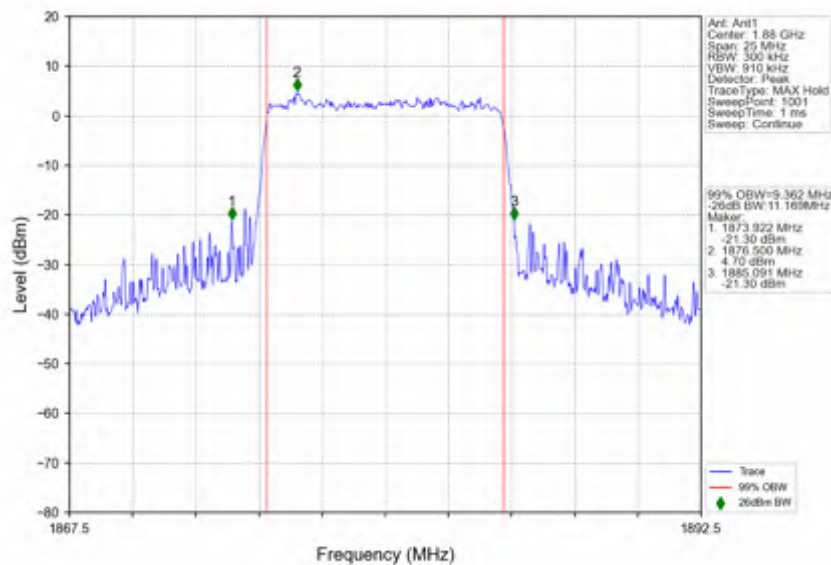


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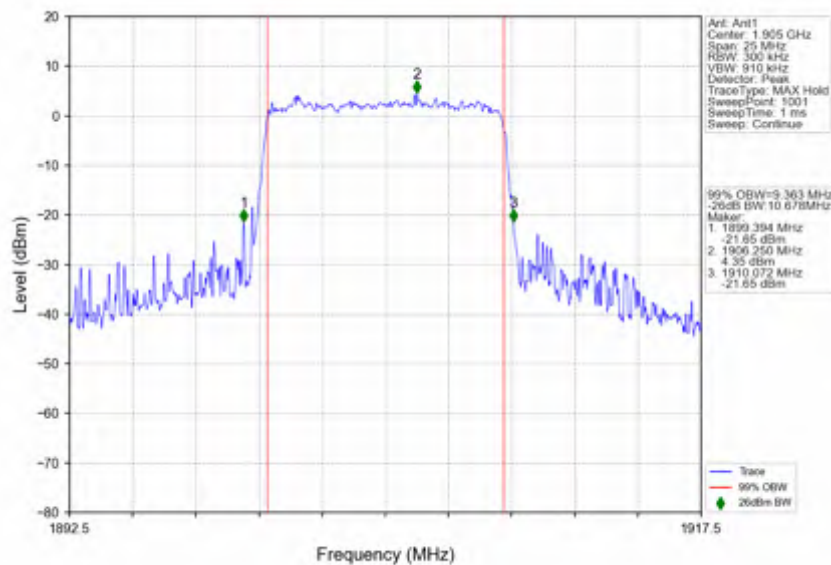
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n2\_15kHz\_SISO\_NTNV\_10MHz\_CP-OFDM\_QPSK\_1880MHz\_Outer\_Full



n2\_15kHz\_SISO\_NTNV\_10MHz\_CP-OFDM\_QPSK\_1905MHz\_Outer\_Full



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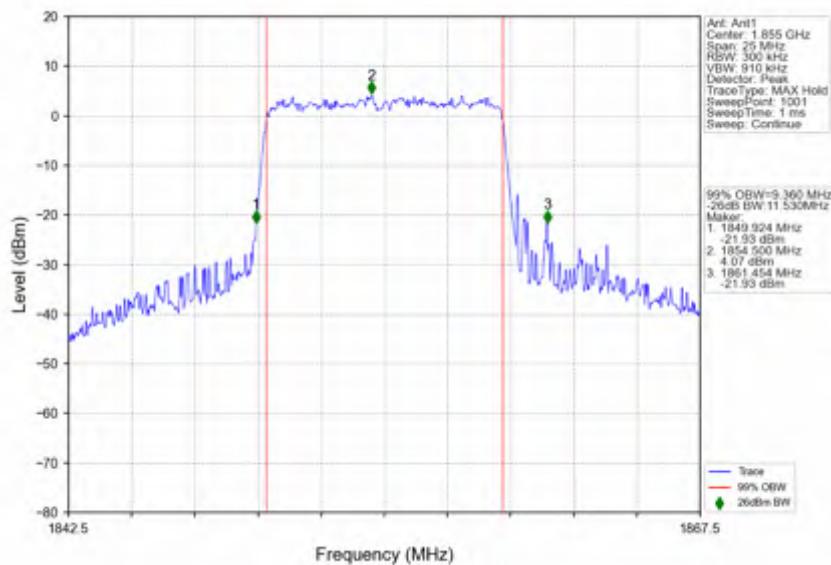
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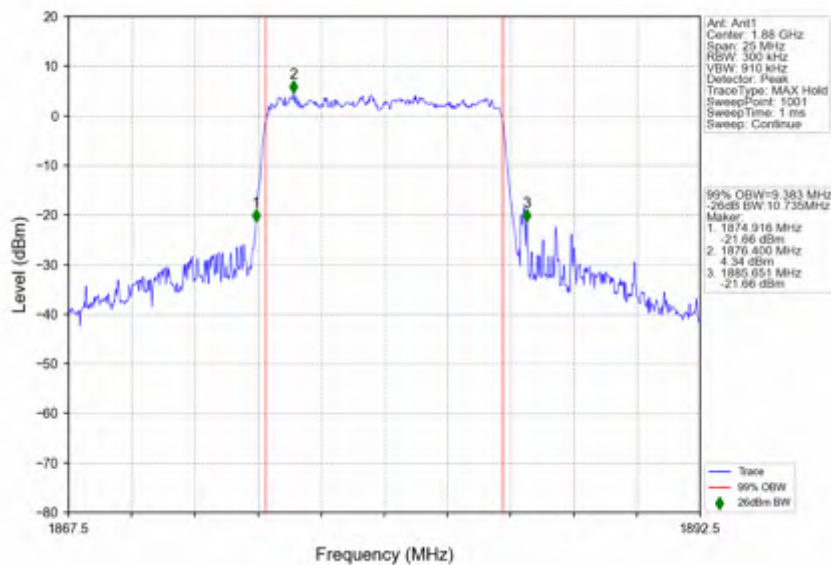
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n2\_15kHz\_SISO\_NTNV\_10MHz\_CP-OFDM\_16\_QAM\_1855MHz\_Outer\_Full



n2 15kHz SISO NTN 10MHz CP-OFDM 16 QAM 1880MHz Outer Full

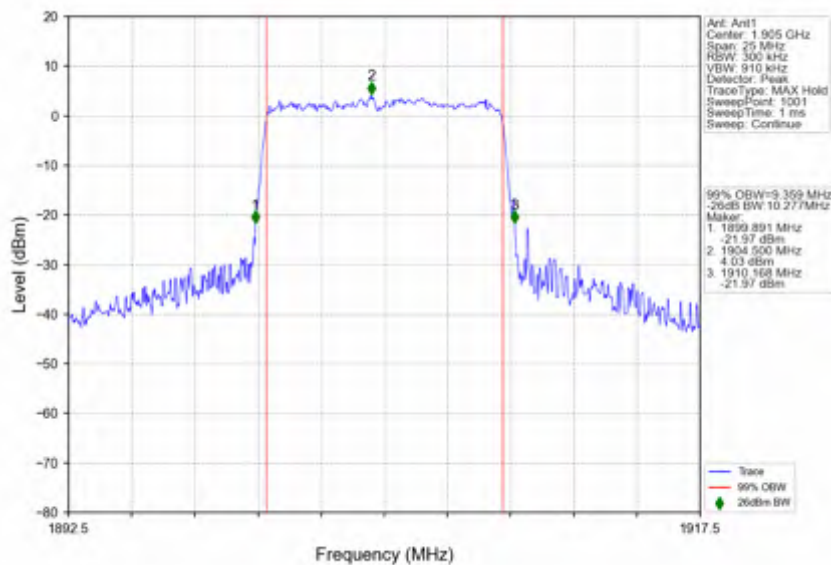


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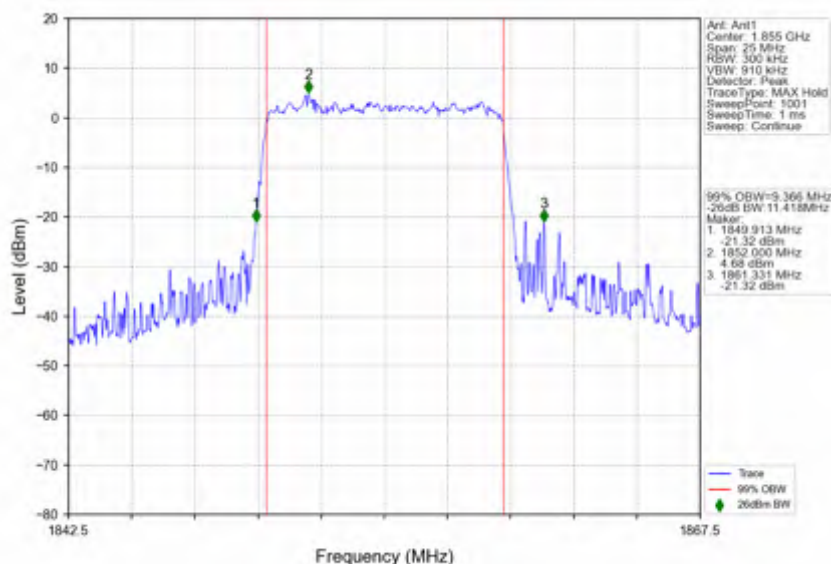
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n2\_15kHz\_SISO\_NTNV\_10MHz\_CP-OFDM 16 QAM\_1905MHz\_Outer\_Full



n2\_15kHz\_SISO\_NTNV\_10MHz\_CP-OFDM 64 QAM\_1855MHz\_Outer\_Full



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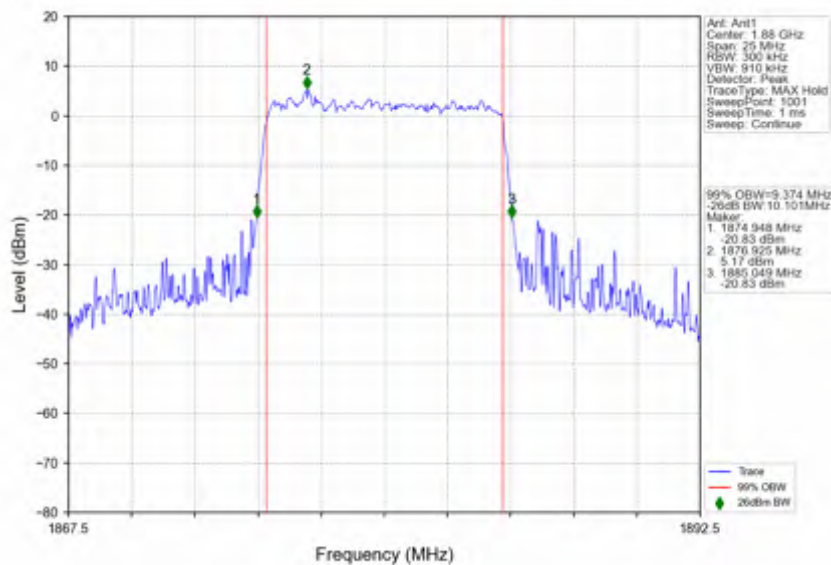
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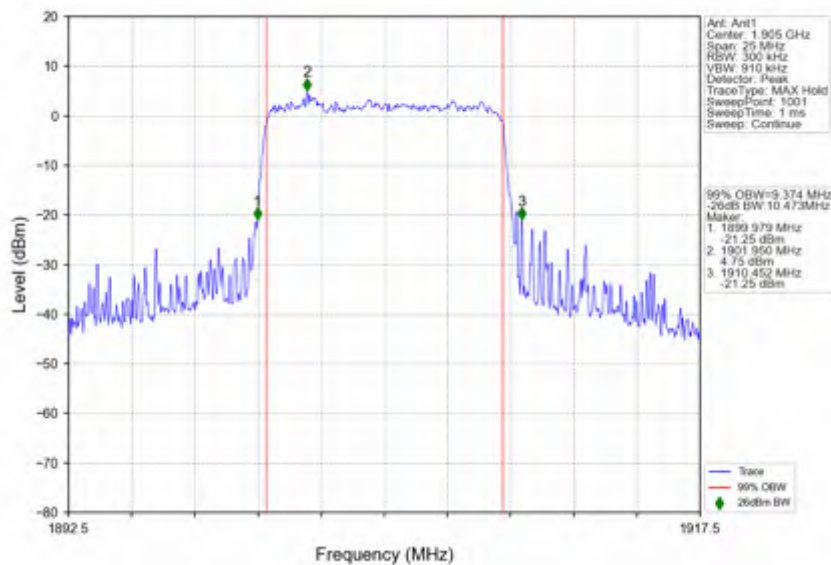
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n2\_15kHz\_SISO\_NTNV\_10MHz\_CP-OFDM\_64\_QAM\_1880MHz\_Outer\_Full



n2 15kHz SISO NTN 10MHz CP-OFDM 64 QAM 1905MHz Outer Full

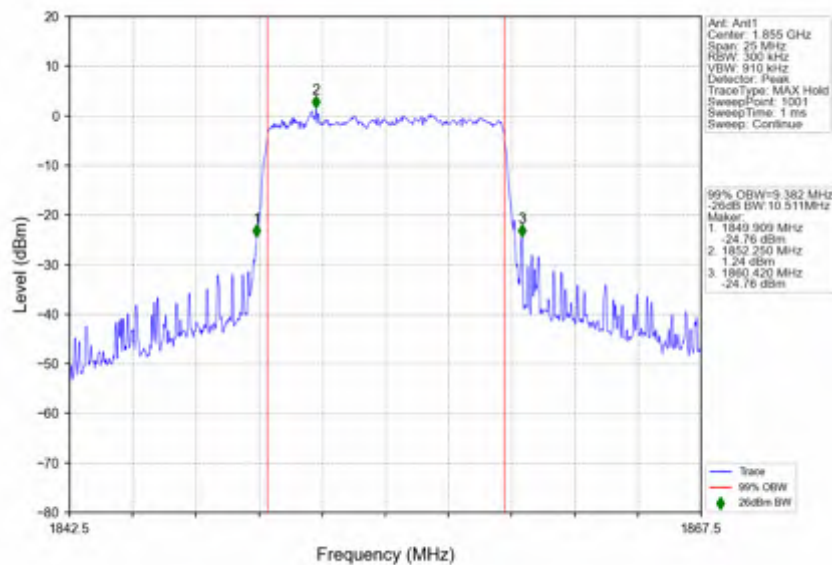


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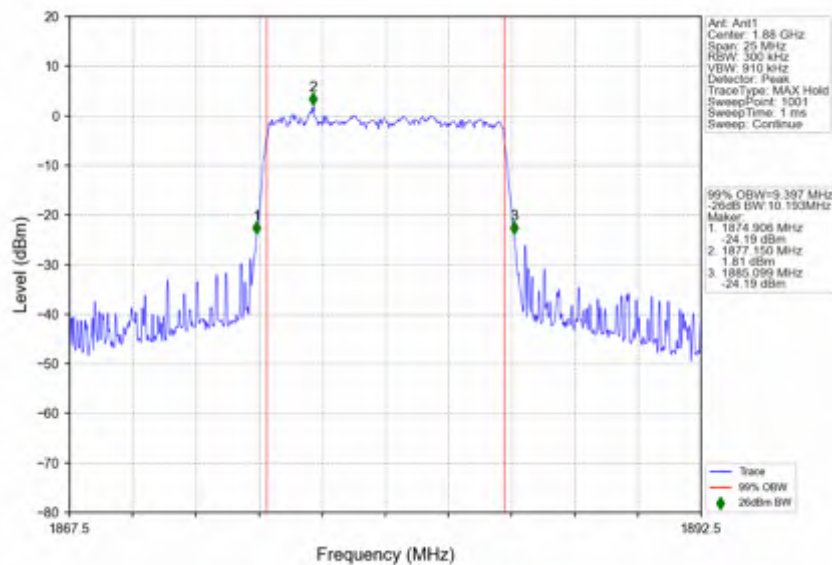
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n2\_15kHz\_SISO\_NTNV\_10MHz\_CP-OFDM\_256\_QAM\_1855MHz\_Outer\_Full



n2\_15kHz\_SISO\_NTNV\_10MHz\_CP-OFDM\_256\_QAM\_1880MHz\_Outer\_Full



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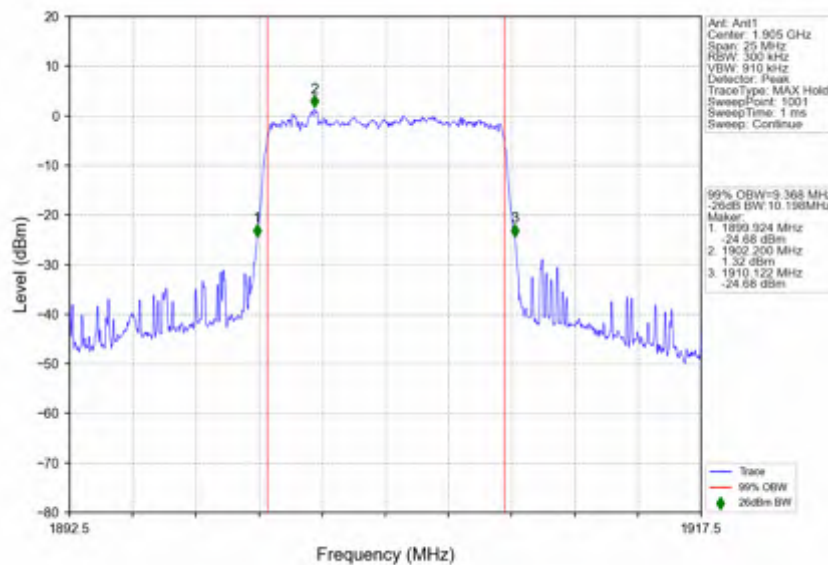
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n2\_15kHz\_SISO\_NTNV\_10MHz\_CP-OFDM\_256\_QAM\_1905MHz\_Outer\_Full



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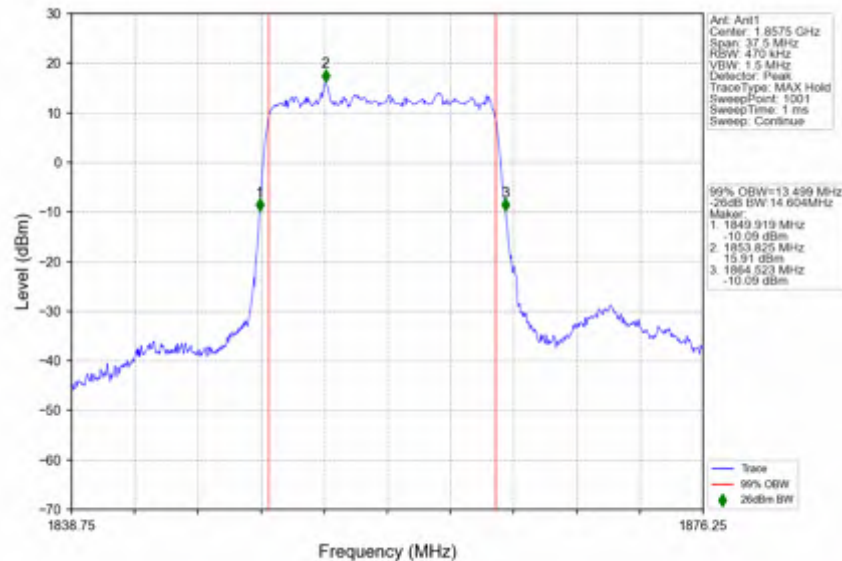
## 1.3 15k\_SISO\_15MHz\_NTNV

### 1.3.1 Test Result

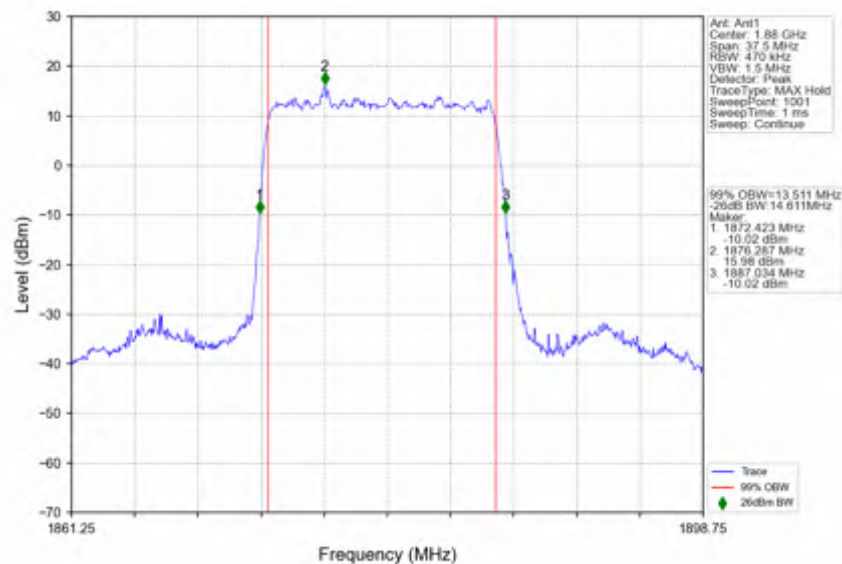
| 5G NR n2 SCS=15kHz SISO 15MHz NTN |                 |               |                     |                      |             |         |
|-----------------------------------|-----------------|---------------|---------------------|----------------------|-------------|---------|
| Modulation                        | Frequency (MHz) | RB Allocation | 99% Bandwidth (MHz) | 26dB Bandwidth (MHz) | Limit (MHz) | Verdict |
| DFT-s-OFDM PI/2 BPSK              | 1857.5          | Outer_Full    | 13.50               | 14.60                | /           | Pass    |
|                                   | 1880            | Outer_Full    | 13.51               | 14.61                | /           | Pass    |
|                                   | 1902.5          | Outer_Full    | 13.52               | 14.67                | /           | Pass    |
| DFT-s-OFDM QPSK                   | 1857.5          | Outer_Full    | 13.56               | 14.77                | /           | Pass    |
|                                   | 1880            | Outer_Full    | 13.52               | 14.65                | /           | Pass    |
|                                   | 1902.5          | Outer_Full    | 13.53               | 14.71                | /           | Pass    |
| DFT-s-OFDM 16 QAM                 | 1857.5          | Outer_Full    | 13.57               | 14.68                | /           | Pass    |
|                                   | 1880            | Outer_Full    | 13.55               | 14.68                | /           | Pass    |
|                                   | 1902.5          | Outer_Full    | 13.59               | 14.73                | /           | Pass    |
| DFT-s-OFDM 64 QAM                 | 1857.5          | Outer_Full    | 13.54               | 14.62                | /           | Pass    |
|                                   | 1880            | Outer_Full    | 13.51               | 14.68                | /           | Pass    |
|                                   | 1902.5          | Outer_Full    | 13.52               | 14.75                | /           | Pass    |
| DFT-s-OFDM 256 QAM                | 1857.5          | Outer_Full    | 13.53               | 14.70                | /           | Pass    |
|                                   | 1880            | Outer_Full    | 13.54               | 14.69                | /           | Pass    |
|                                   | 1902.5          | Outer_Full    | 13.53               | 14.80                | /           | Pass    |
| CP-OFDM QPSK                      | 1857.5          | Outer_Full    | 14.22               | 15.29                | /           | Pass    |
|                                   | 1880            | Outer_Full    | 14.22               | 15.29                | /           | Pass    |
|                                   | 1902.5          | Outer_Full    | 14.22               | 15.33                | /           | Pass    |
| CP-OFDM 16 QAM                    | 1857.5          | Outer_Full    | 14.23               | 15.36                | /           | Pass    |
|                                   | 1880            | Outer_Full    | 14.26               | 15.33                | /           | Pass    |
|                                   | 1902.5          | Outer_Full    | 14.26               | 15.40                | /           | Pass    |
| CP-OFDM 64 QAM                    | 1857.5          | Outer_Full    | 14.25               | 15.29                | /           | Pass    |
|                                   | 1880            | Outer_Full    | 14.25               | 15.27                | /           | Pass    |
|                                   | 1902.5          | Outer_Full    | 14.25               | 15.29                | /           | Pass    |
| CP-OFDM 256 QAM                   | 1857.5          | Outer_Full    | 14.21               | 15.35                | /           | Pass    |
|                                   | 1880            | Outer_Full    | 14.21               | 15.35                | /           | Pass    |
|                                   | 1902.5          | Outer_Full    | 14.23               | 15.38                | /           | Pass    |

## 1.3.2 Test Graph

n2\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM PI/2 BPSK\_1857.5MHz\_Outer\_Full



n2\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM PI/2 BPSK\_1880MHz\_Outer\_Full



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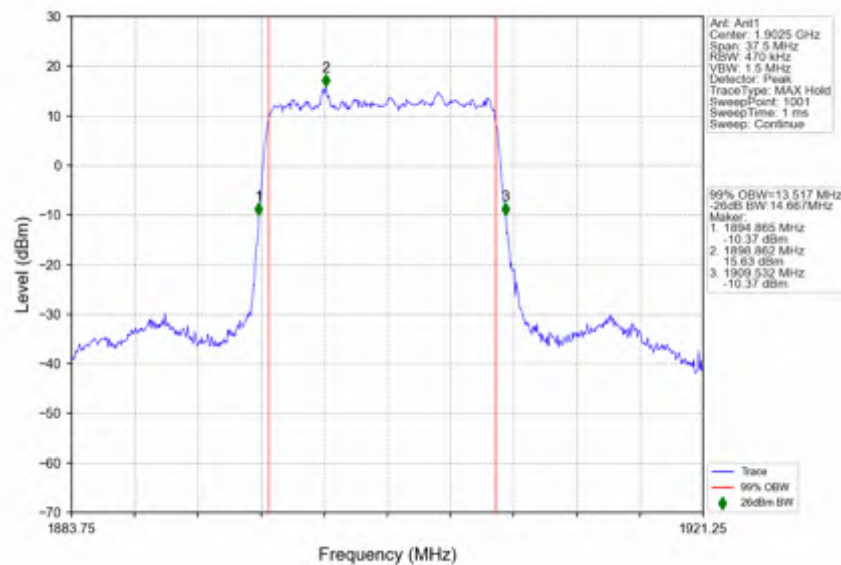
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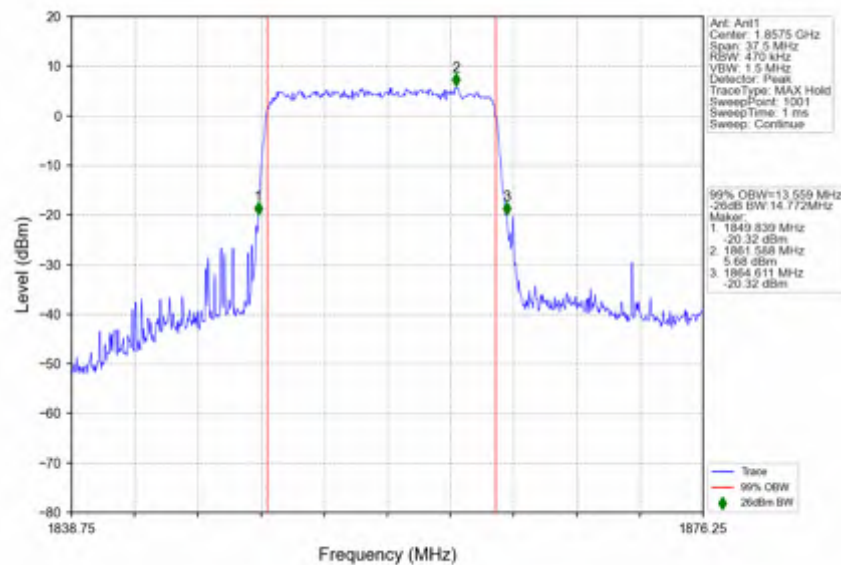
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n2\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM PI/2 BPSK\_1902.5MHz\_Outer\_Full



n2\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM QPSK\_1857.5MHz\_Outer\_Full



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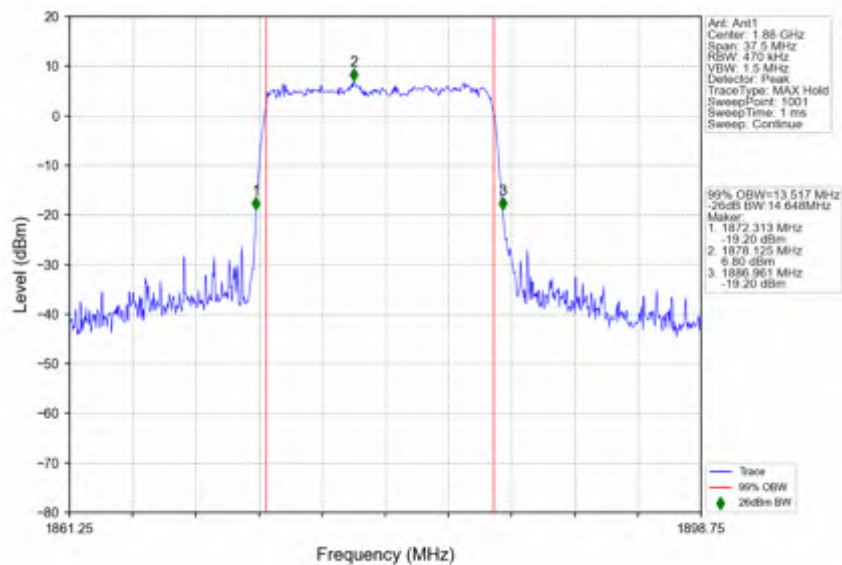
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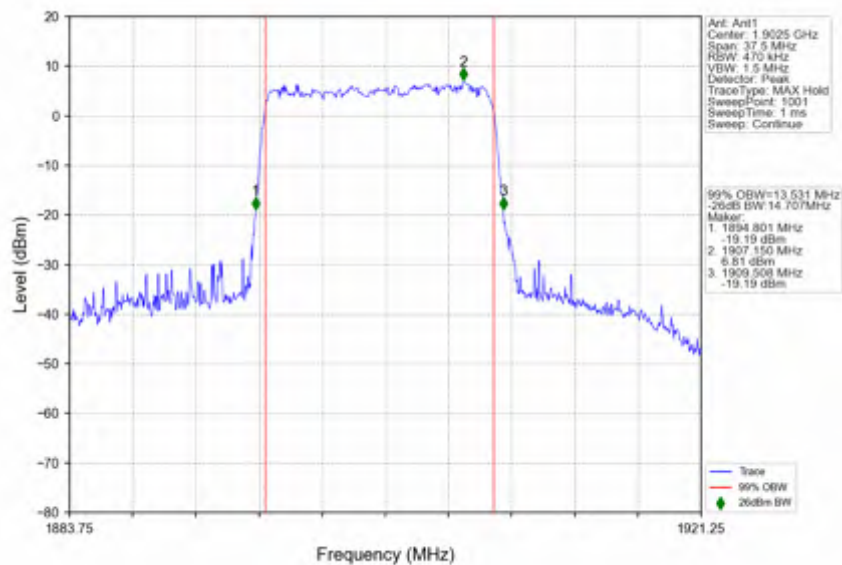
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n2\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM\_QPSK\_1902.5MHz\_Outer\_Full

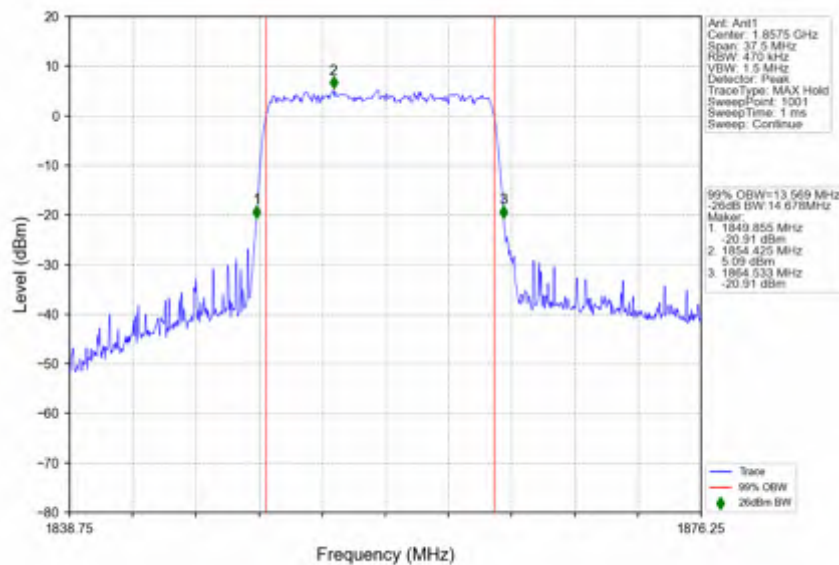


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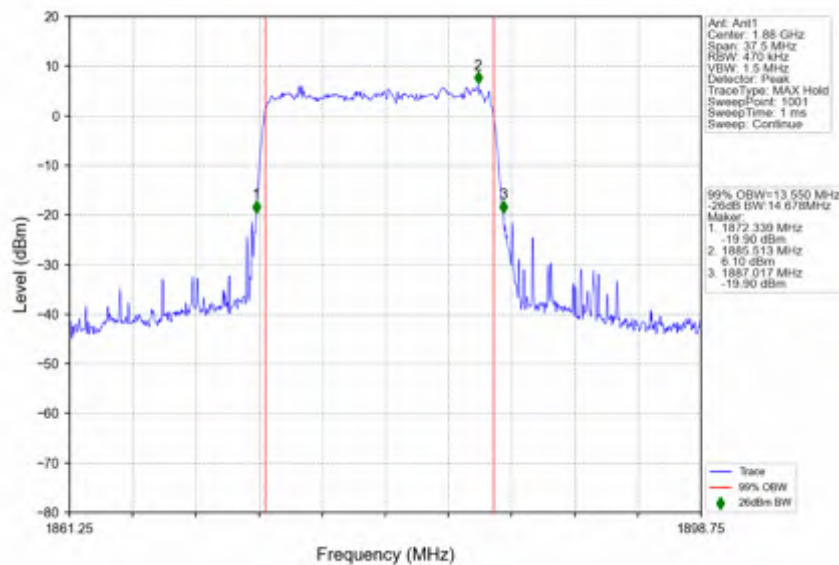
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n2\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM\_16\_QAM\_1857.5MHz\_Outer\_Full



n2\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM\_16\_QAM\_1880MHz\_Outer\_Full



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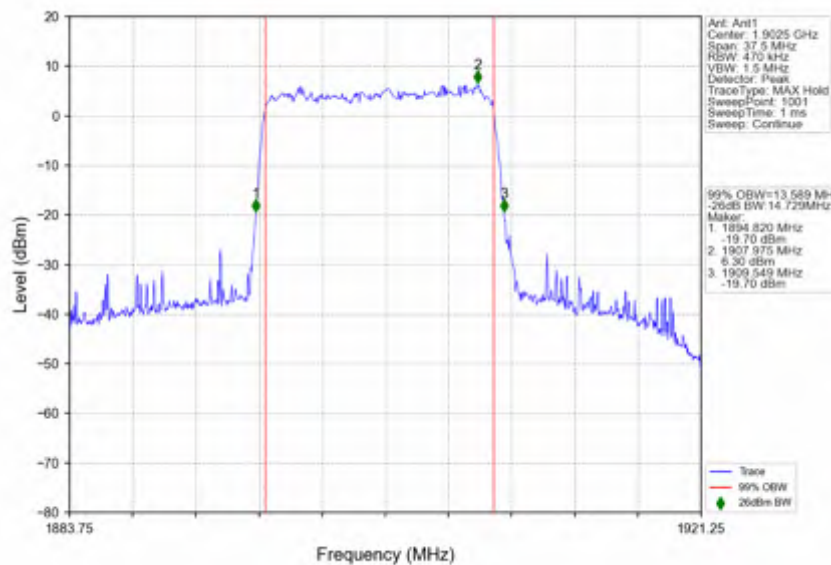
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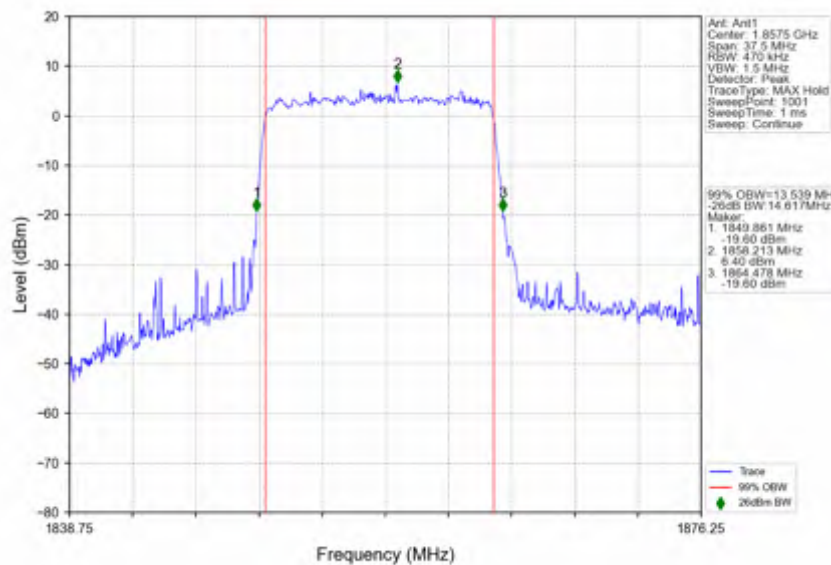
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n2\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM\_16\_QAM\_1902.5MHz\_Outer\_Full



n2\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM\_64\_QAM\_1857.5MHz\_Outer\_Full



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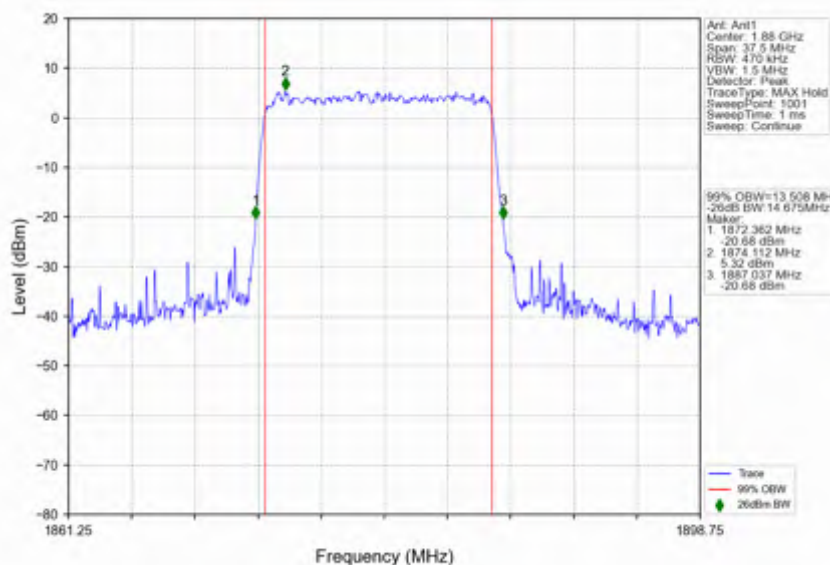
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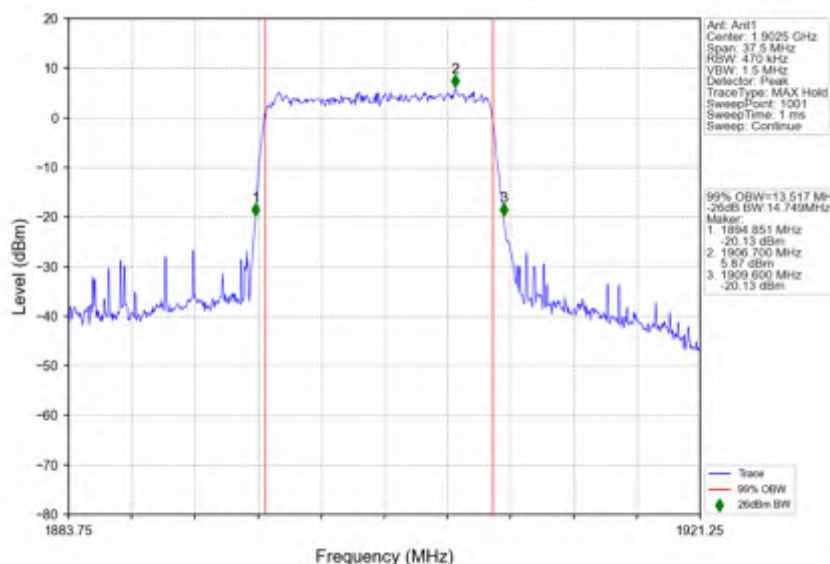
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|    |       |      |      |       |            |        |         |       |      |
|----|-------|------|------|-------|------------|--------|---------|-------|------|
| n2 | 15kHz | SISO | NTNV | 15MHz | DFT-s-OFDM | 64 QAM | 1880MHz | Outer | Full |
|----|-------|------|------|-------|------------|--------|---------|-------|------|



|    |       |      |      |       |            |        |           |       |      |
|----|-------|------|------|-------|------------|--------|-----------|-------|------|
| n2 | 15kHz | SISO | NTNV | 15MHz | DFT-s-OFDM | 64 QAM | 1902.5MHz | Outer | Full |
|----|-------|------|------|-------|------------|--------|-----------|-------|------|

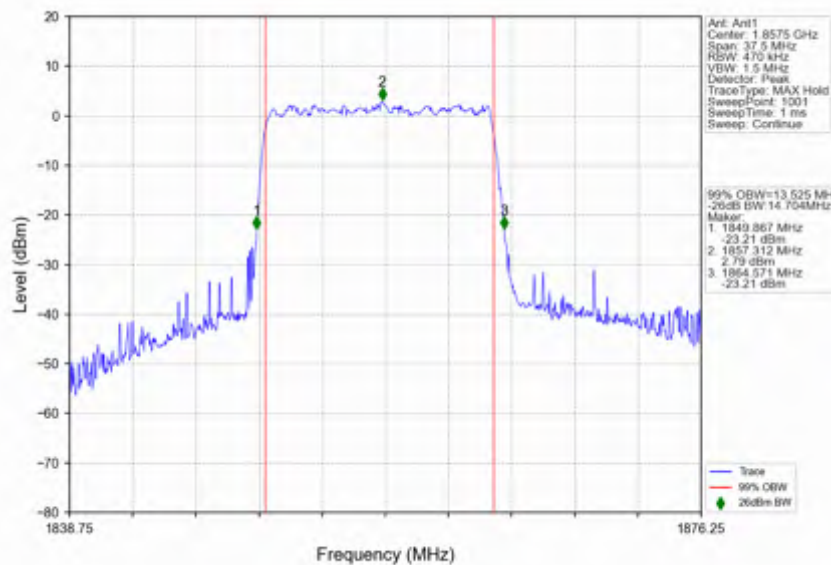


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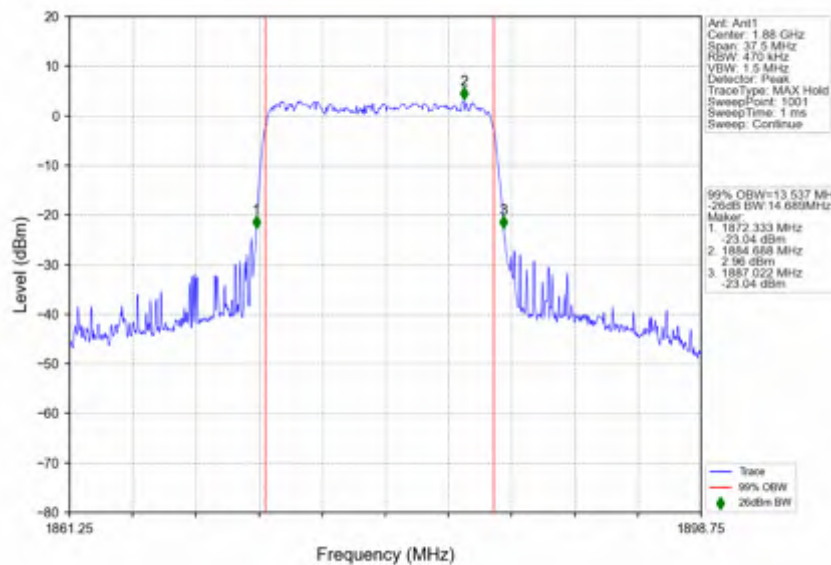
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n2\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM 256 QAM\_1857.5MHz\_Outer\_Full



n2\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM 256 QAM\_1880MHz\_Outer\_Full



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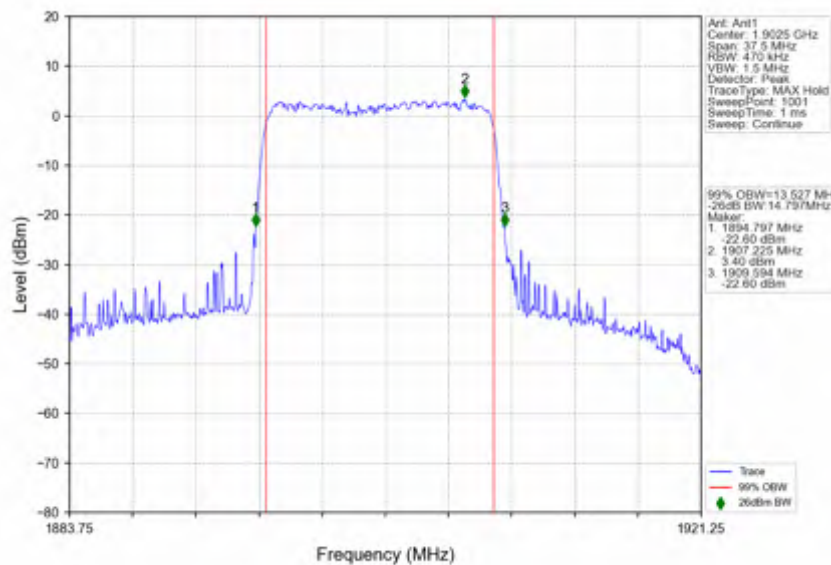
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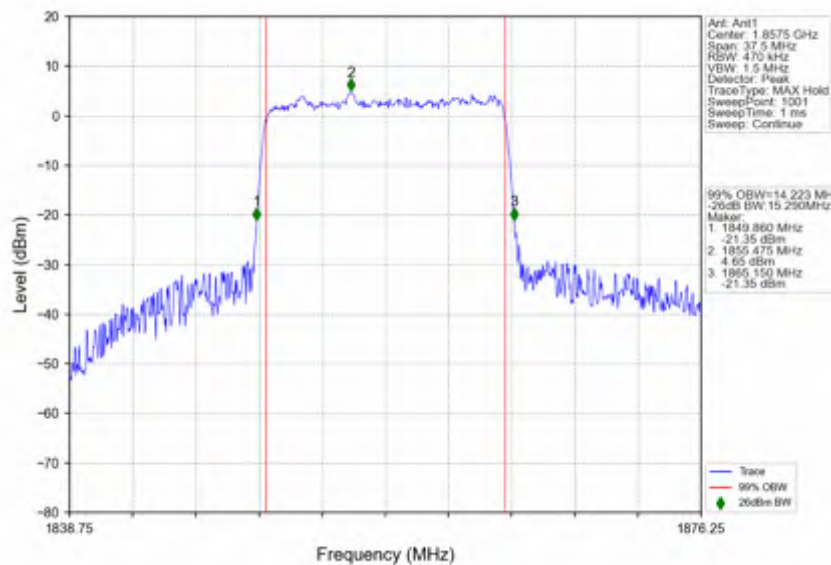
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n2\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM 256 QAM\_1902.5MHz\_Outer\_Full



n2\_15kHz\_SISO\_NTNV\_15MHz\_CP-OFDM QPSK\_1857.5MHz\_Outer\_Full



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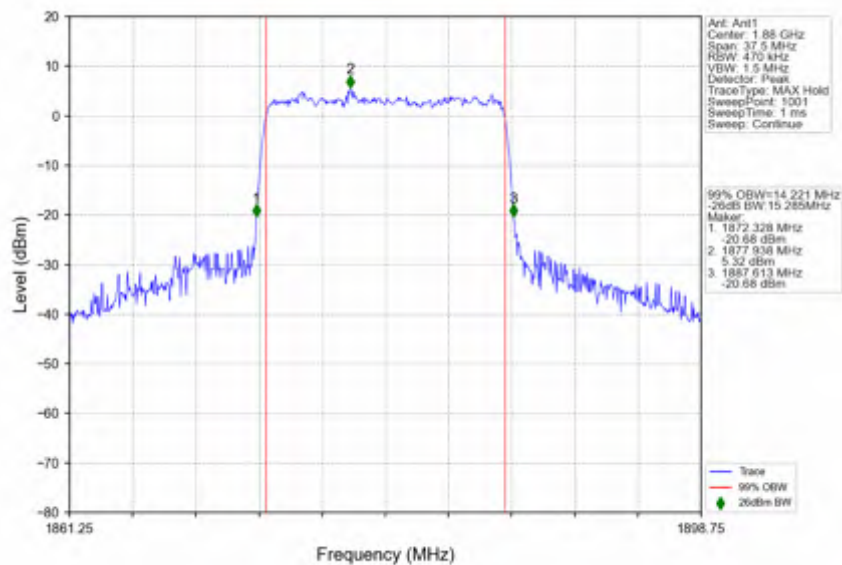
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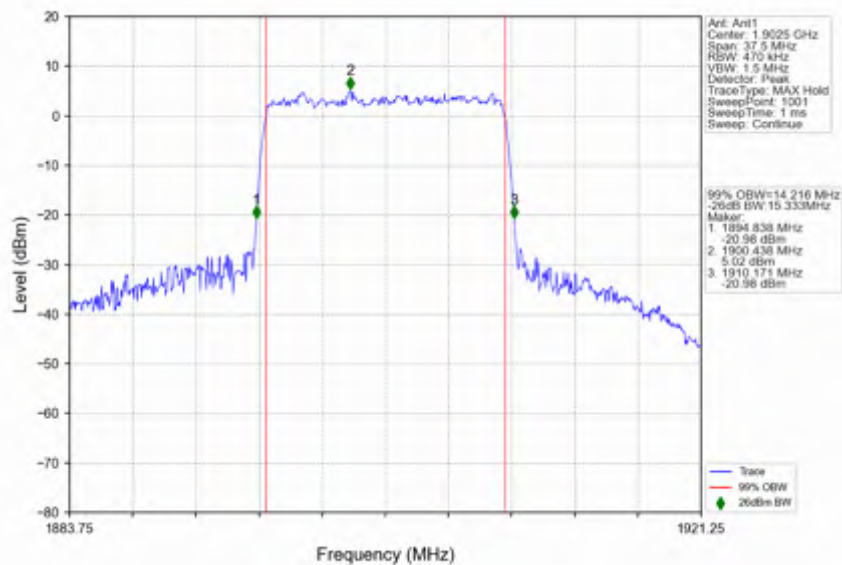
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n2\_15kHz\_SISO\_NTNV\_15MHz\_CP-OFDM QPSK\_1880MHz\_Outer\_Full



n2\_15kHz\_SISO\_NTNV\_15MHz\_CP-OFDM QPSK\_1902.5MHz\_Outer\_Full



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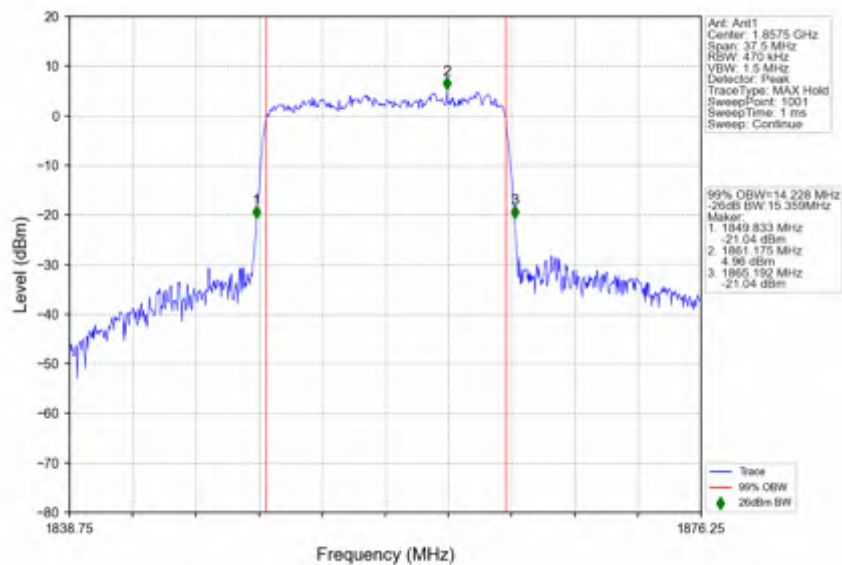
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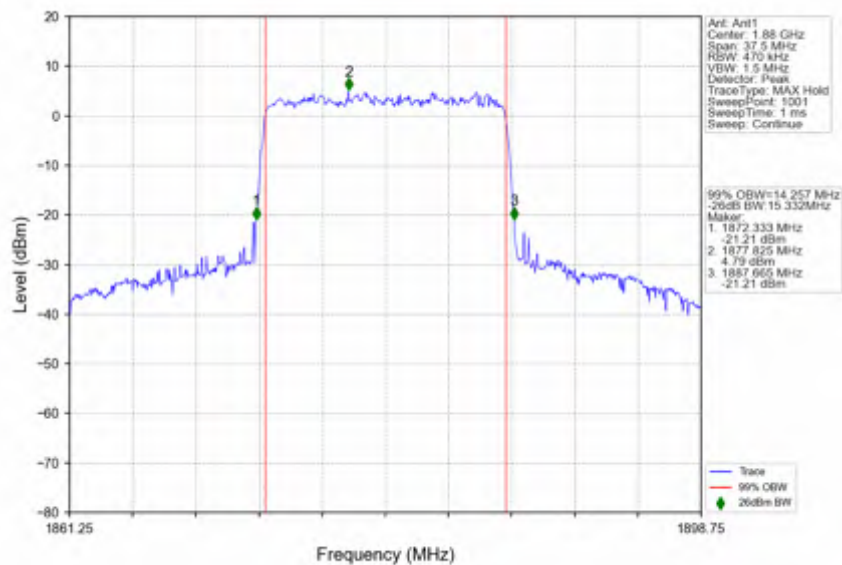
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n2\_15kHz\_SISO\_NTNV\_15MHz\_CP-OFDM\_16\_QAM\_1857.5MHz\_Outer\_Full



n2\_15kHz\_SISO\_NTNV\_15MHz\_CP-OFDM\_16\_QAM\_1880MHz\_Outer\_Full



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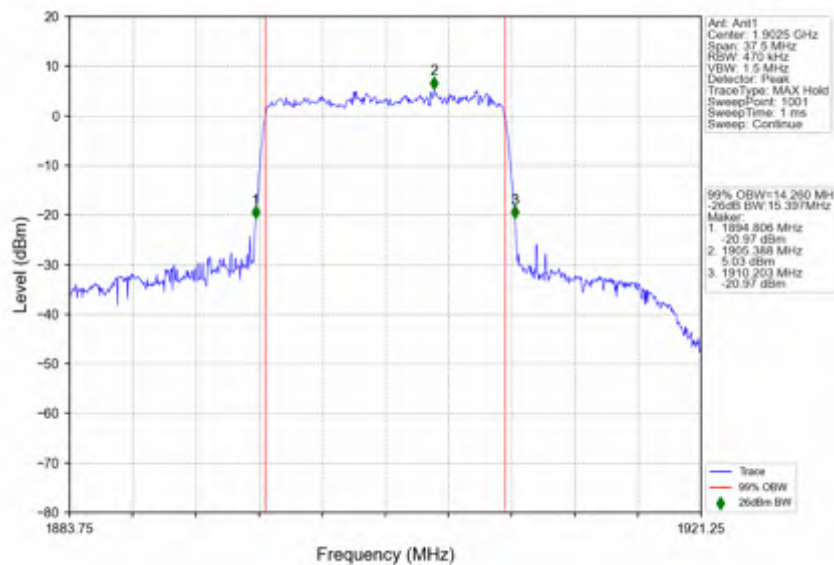
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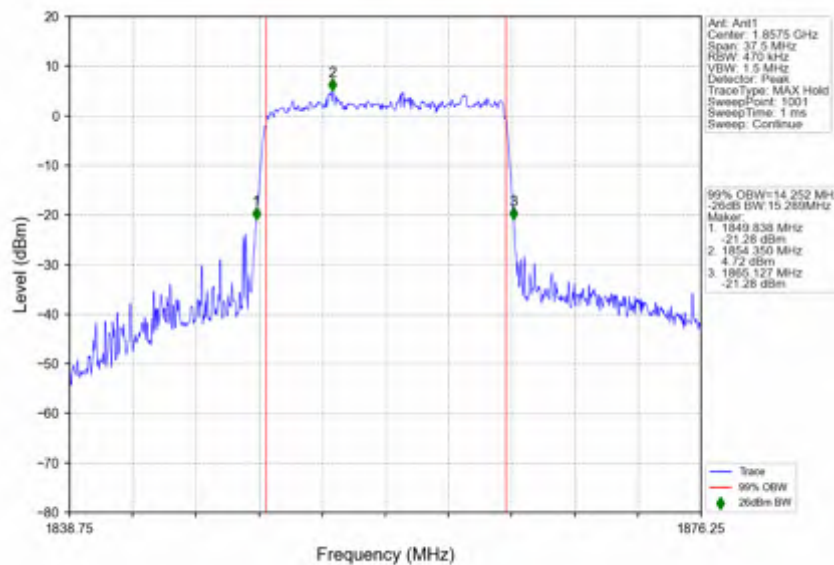
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n2\_15kHz\_SISO\_NTNV\_15MHz\_CP-OFDM\_16\_QAM\_1902.5MHz\_Outer\_Full



n2\_15kHz\_SISO\_NTNV\_15MHz\_CP-OFDM\_64\_QAM\_1857.5MHz\_Outer\_Full

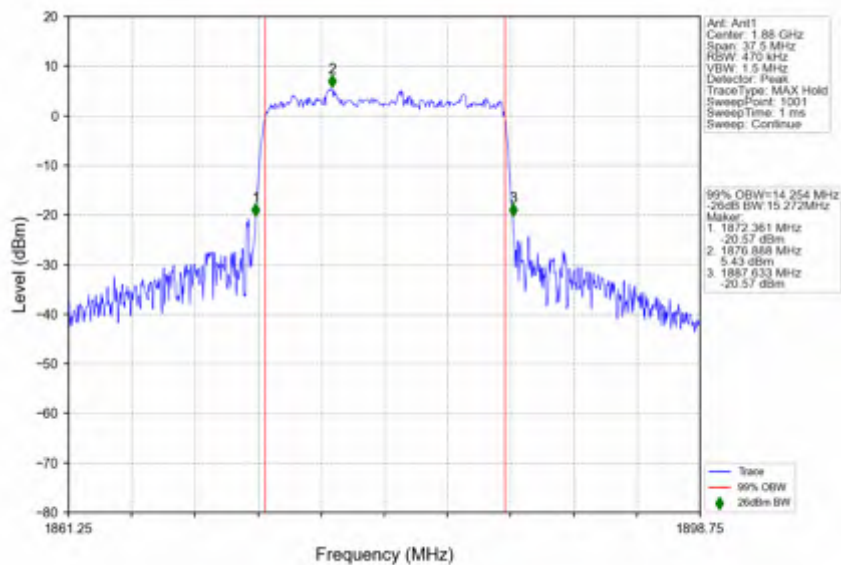


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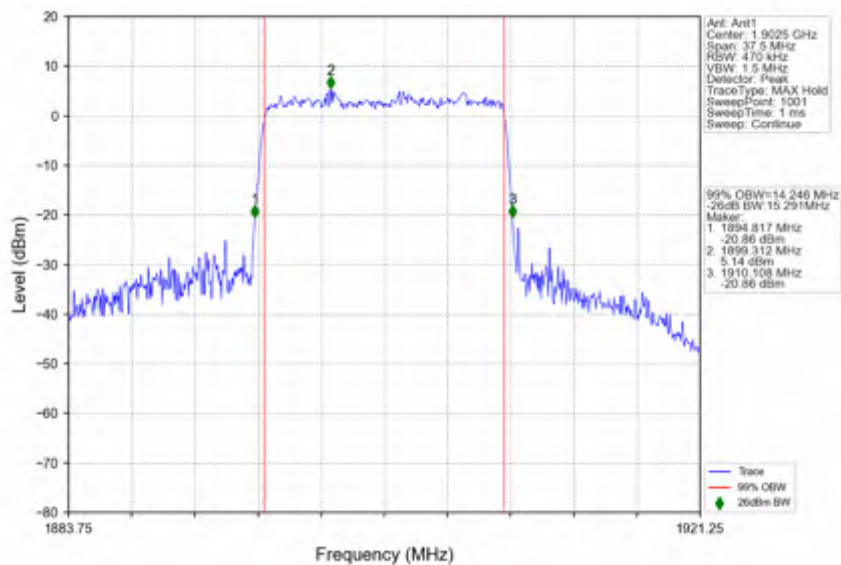
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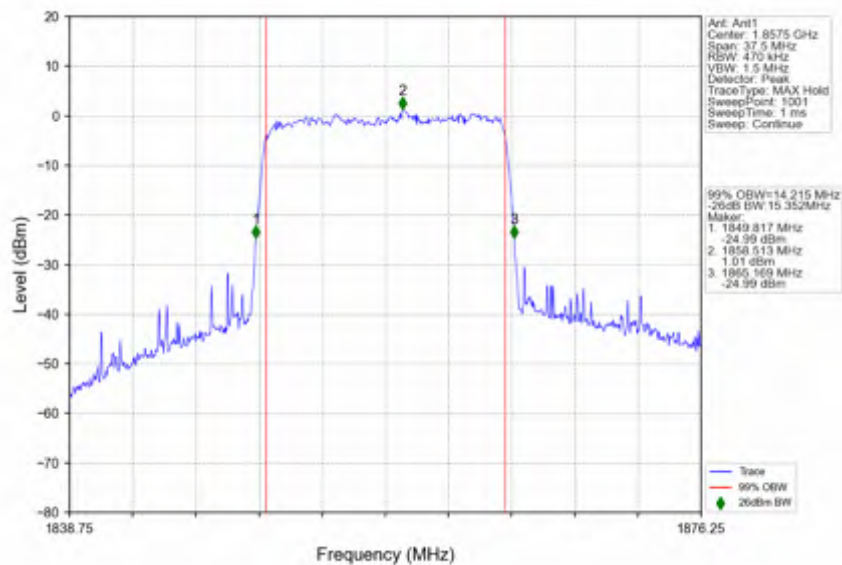


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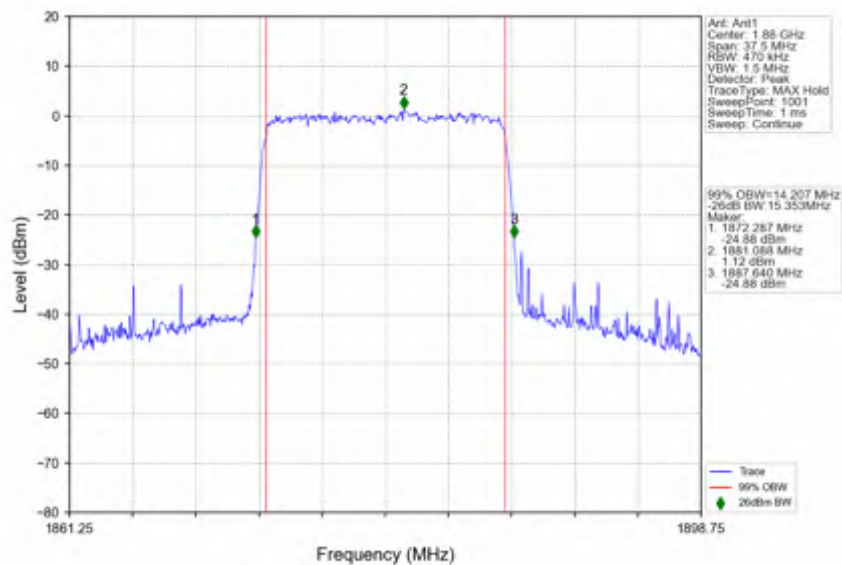
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n2\_15kHz\_SISO\_NTNV\_15MHz\_CP-OFDM 256 QAM\_1857.5MHz\_Outer\_Full



n2\_15kHz\_SISO\_NTNV\_15MHz\_CP-OFDM 256 QAM\_1880MHz\_Outer\_Full



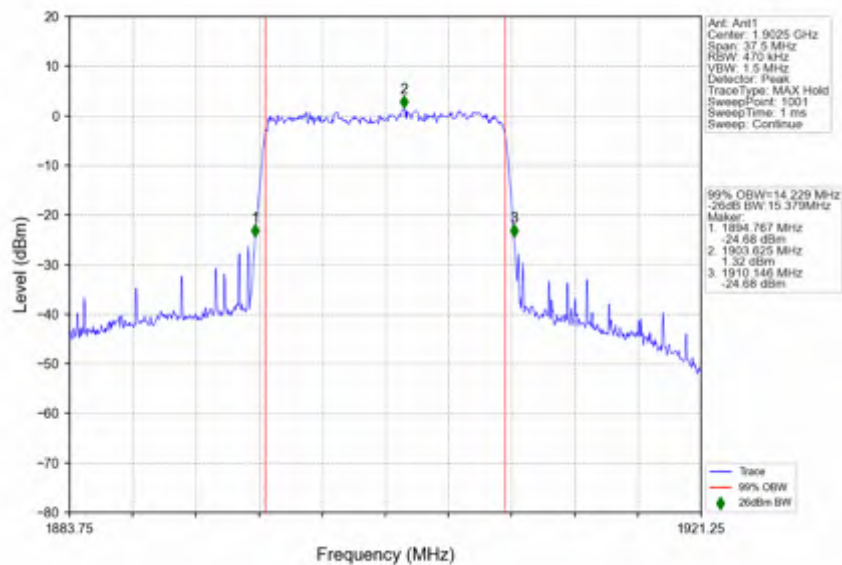
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n2\_15kHz\_SISO\_NTNV\_15MHz\_CP-OFDM 256 QAM\_1902.5MHz\_Outer\_Full



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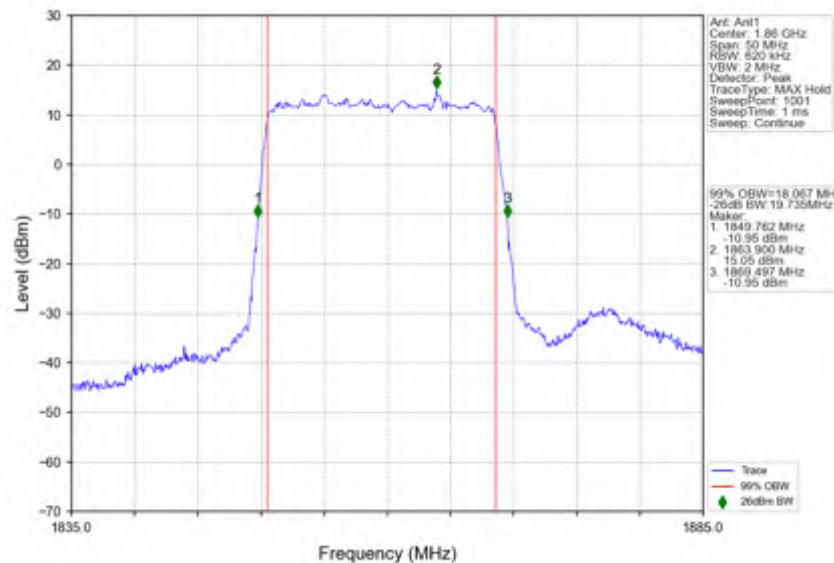
## 1.4 15k\_SISO\_20MHz\_NTNV

### 1.4.1 Test Result

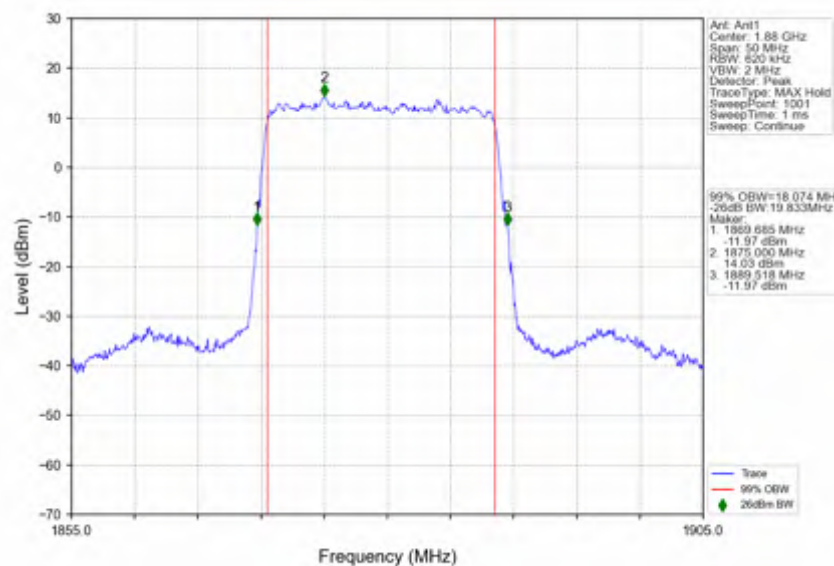
| 5G NR n2 SCS=15kHz SISO 20MHz NTN |                 |               |                     |                      |             |         |
|-----------------------------------|-----------------|---------------|---------------------|----------------------|-------------|---------|
| Modulation                        | Frequency (MHz) | RB Allocation | 99% Bandwidth (MHz) | 26dB Bandwidth (MHz) | Limit (MHz) | Verdict |
| DFT-s-OFDM PI/2 BPSK              | 1860            | Outer_Full    | 18.07               | 19.73                | /           | Pass    |
|                                   | 1880            | Outer_Full    | 18.07               | 19.83                | /           | Pass    |
|                                   | 1900            | Outer_Full    | 18.11               | 19.85                | /           | Pass    |
| DFT-s-OFDM QPSK                   | 1860            | Outer_Full    | 18.06               | 20.22                | /           | Pass    |
|                                   | 1880            | Outer_Full    | 18.04               | 19.72                | /           | Pass    |
|                                   | 1900            | Outer_Full    | 18.11               | 19.50                | /           | Pass    |
| DFT-s-OFDM 16 QAM                 | 1860            | Outer_Full    | 18.02               | 19.71                | /           | Pass    |
|                                   | 1880            | Outer_Full    | 18.04               | 19.81                | /           | Pass    |
|                                   | 1900            | Outer_Full    | 18.08               | 19.70                | /           | Pass    |
| DFT-s-OFDM 64 QAM                 | 1860            | Outer_Full    | 18.07               | 19.72                | /           | Pass    |
|                                   | 1880            | Outer_Full    | 18.06               | 19.70                | /           | Pass    |
|                                   | 1900            | Outer_Full    | 18.12               | 19.79                | /           | Pass    |
| DFT-s-OFDM 256 QAM                | 1860            | Outer_Full    | 18.10               | 19.67                | /           | Pass    |
|                                   | 1880            | Outer_Full    | 18.09               | 19.82                | /           | Pass    |
|                                   | 1900            | Outer_Full    | 18.08               | 19.60                | /           | Pass    |
| CP-OFDM QPSK                      | 1860            | Outer_Full    | 19.12               | 20.62                | /           | Pass    |
|                                   | 1880            | Outer_Full    | 19.07               | 20.58                | /           | Pass    |
|                                   | 1900            | Outer_Full    | 19.12               | 22.82                | /           | Pass    |
| CP-OFDM 16 QAM                    | 1860            | Outer_Full    | 19.05               | 20.60                | /           | Pass    |
|                                   | 1880            | Outer_Full    | 19.09               | 20.62                | /           | Pass    |
|                                   | 1900            | Outer_Full    | 19.15               | 20.73                | /           | Pass    |
| CP-OFDM 64 QAM                    | 1860            | Outer_Full    | 19.09               | 20.67                | /           | Pass    |
|                                   | 1880            | Outer_Full    | 19.06               | 20.75                | /           | Pass    |
|                                   | 1900            | Outer_Full    | 19.13               | 20.69                | /           | Pass    |
| CP-OFDM 256 QAM                   | 1860            | Outer_Full    | 19.08               | 20.60                | /           | Pass    |
|                                   | 1880            | Outer_Full    | 19.03               | 20.39                | /           | Pass    |
|                                   | 1900            | Outer_Full    | 19.07               | 20.46                | /           | Pass    |

## 1.4.2 Test Graph

n2\_15kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM PI/2 BPSK\_1860MHz\_Outer\_Full



n2\_15kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM PI/2 BPSK\_1880MHz\_Outer\_Full

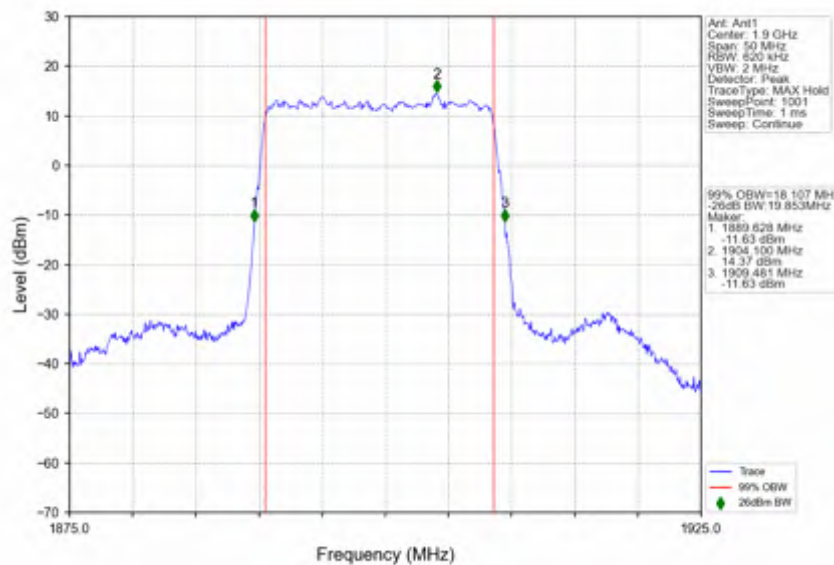


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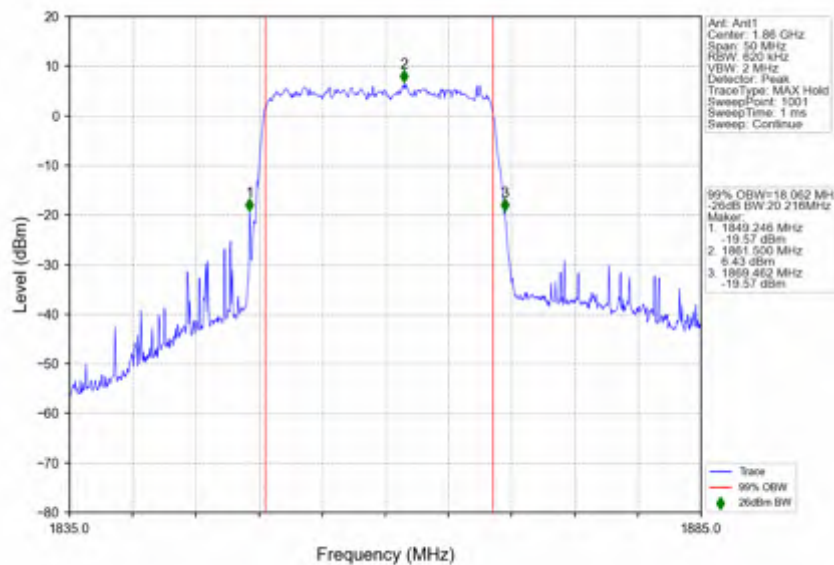
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n2\_15kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM\_QPSK\_1860MHz\_Outer\_Full

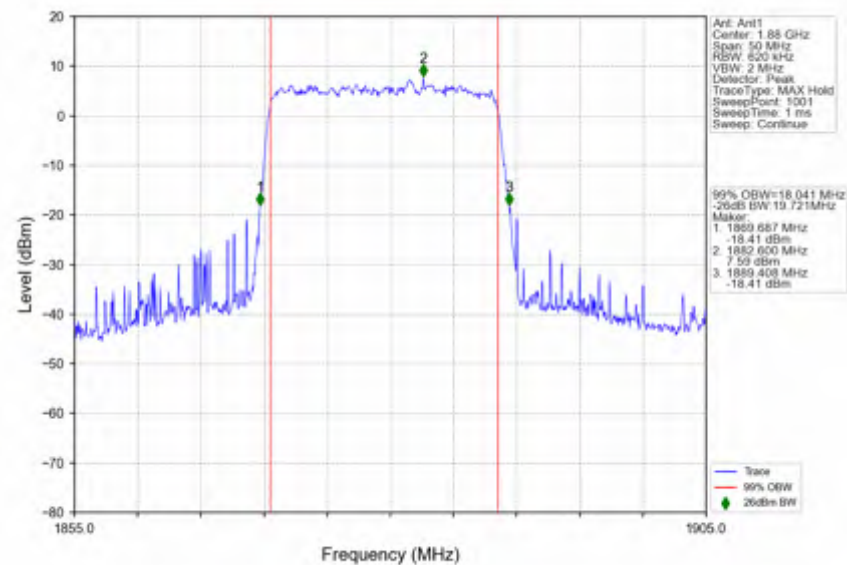


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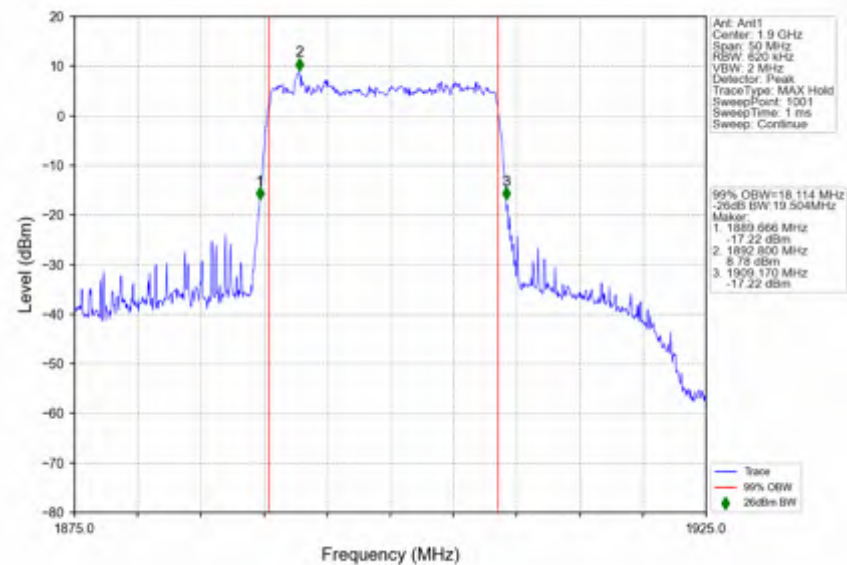
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n2\_15kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM\_QPSK\_1900MHz\_Outer\_Full



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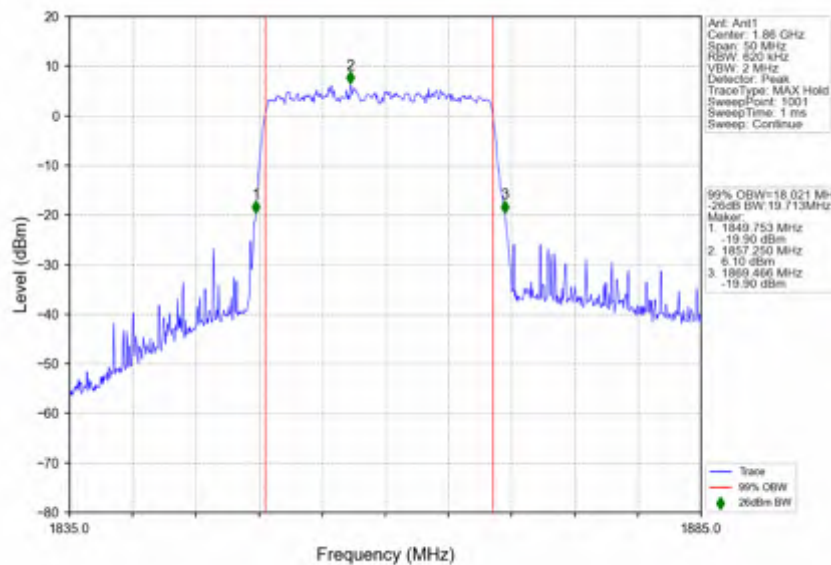
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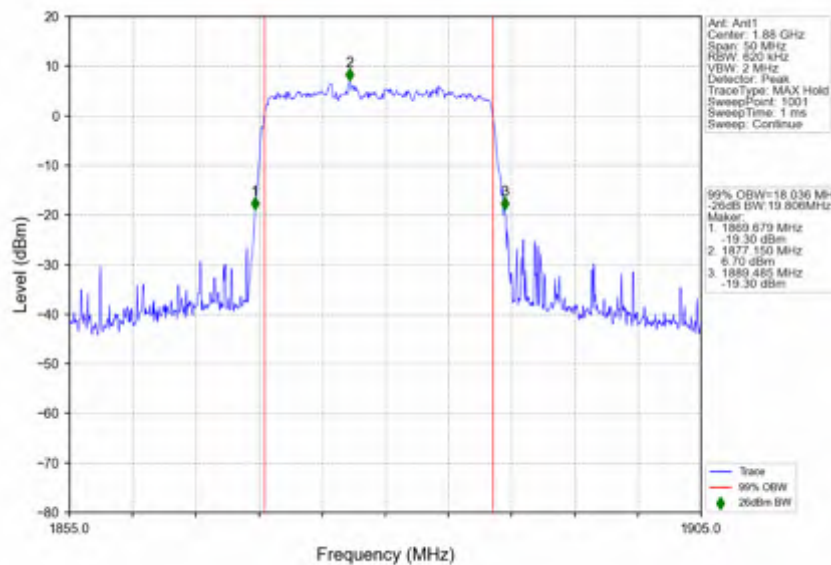
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n2\_15kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM\_16 QAM\_1880MHz\_Outer\_Full



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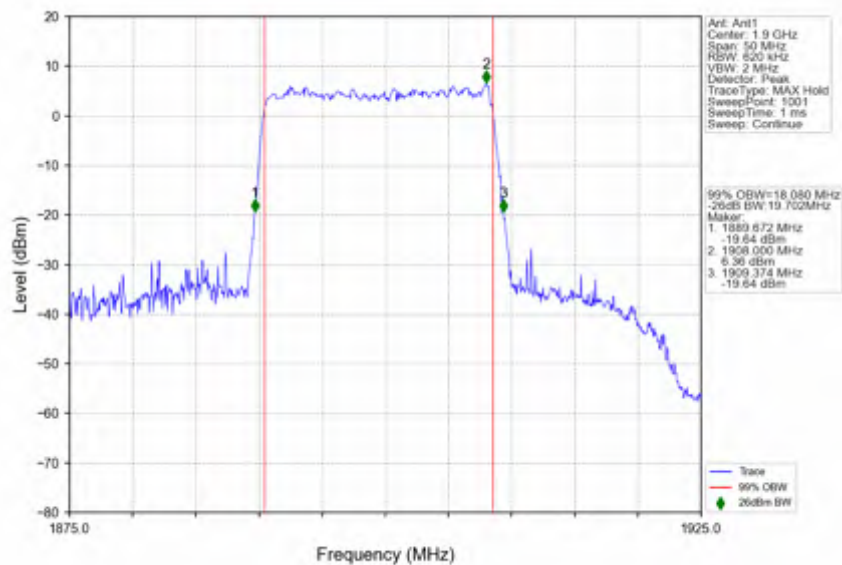
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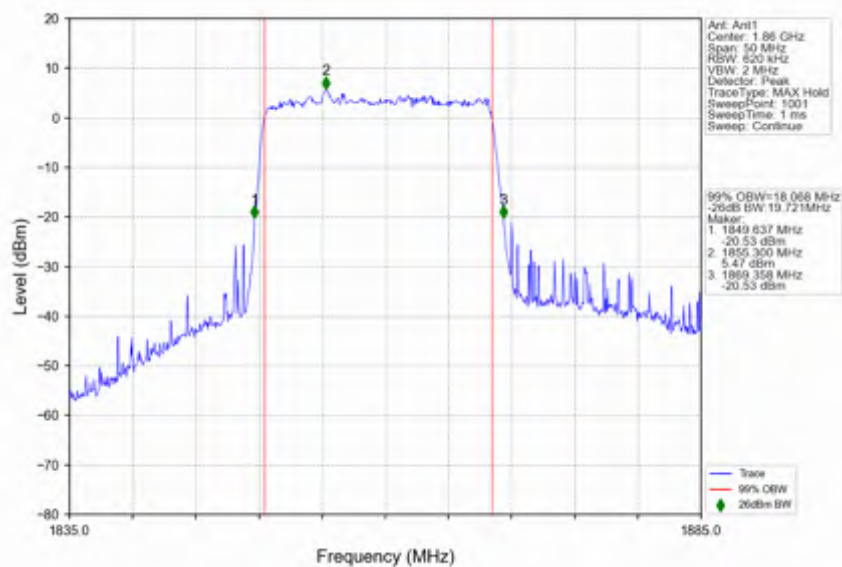
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n2\_15kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM\_16\_QAM\_1900MHz\_Outer\_Full



|    |       |      |      |       |            |        |         |       |      |
|----|-------|------|------|-------|------------|--------|---------|-------|------|
| n2 | 15kHz | SISO | NTNV | 20MHz | DFT-s-OFDM | 64 QAM | 1860MHz | Outer | Full |
|----|-------|------|------|-------|------------|--------|---------|-------|------|

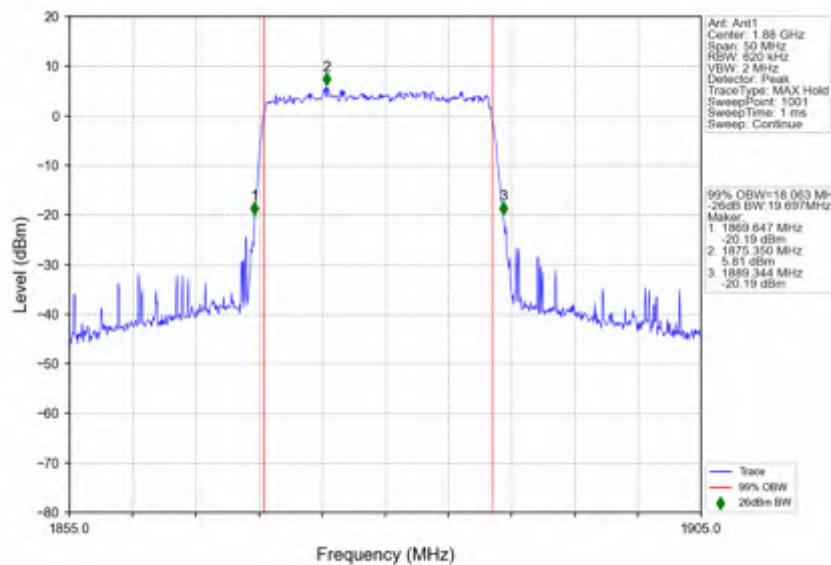


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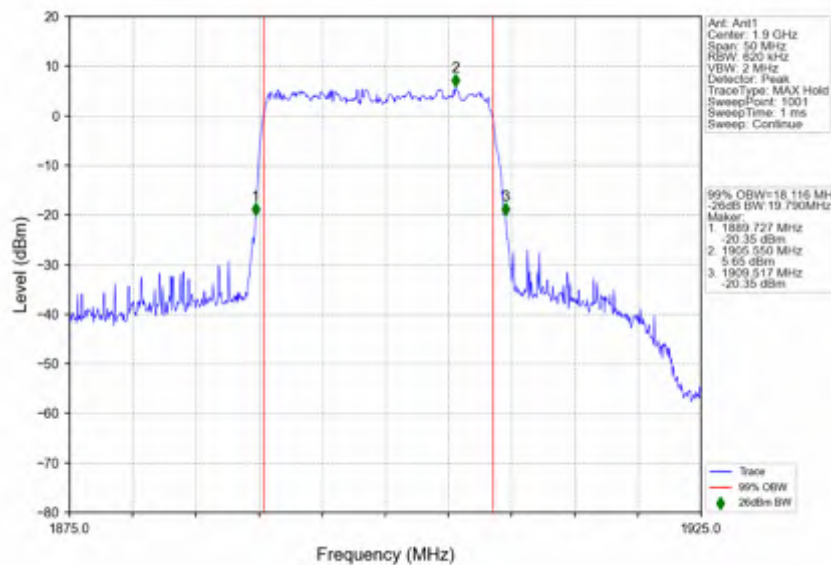
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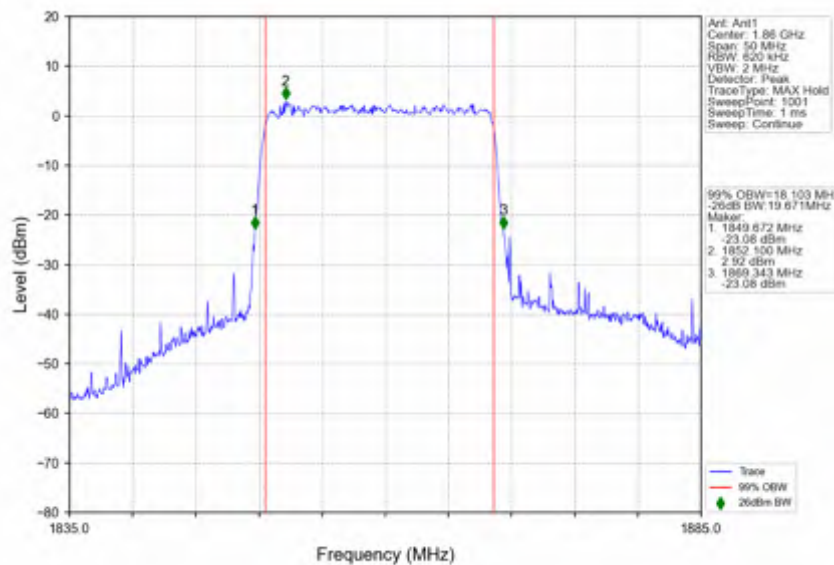
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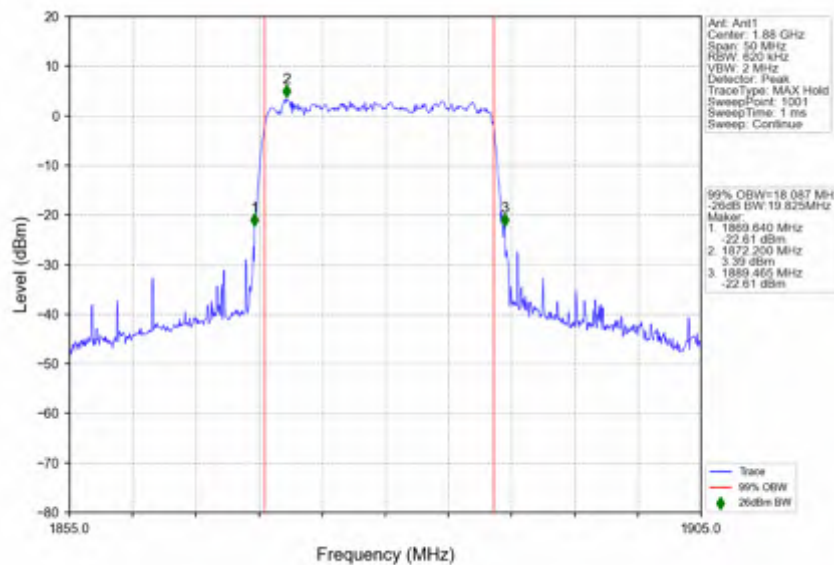
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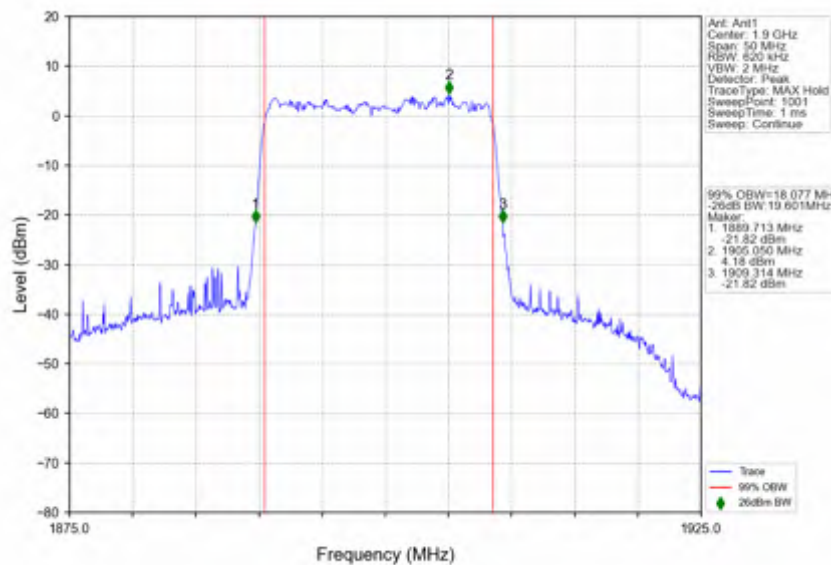
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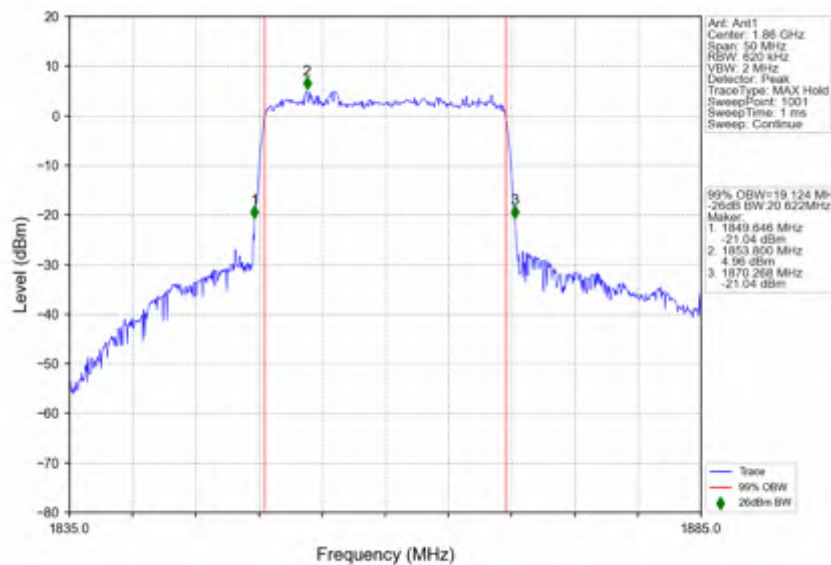
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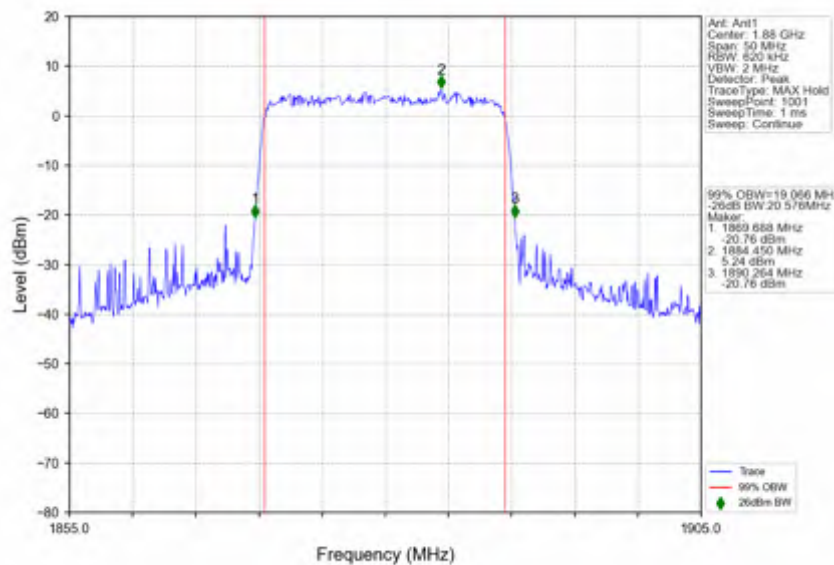
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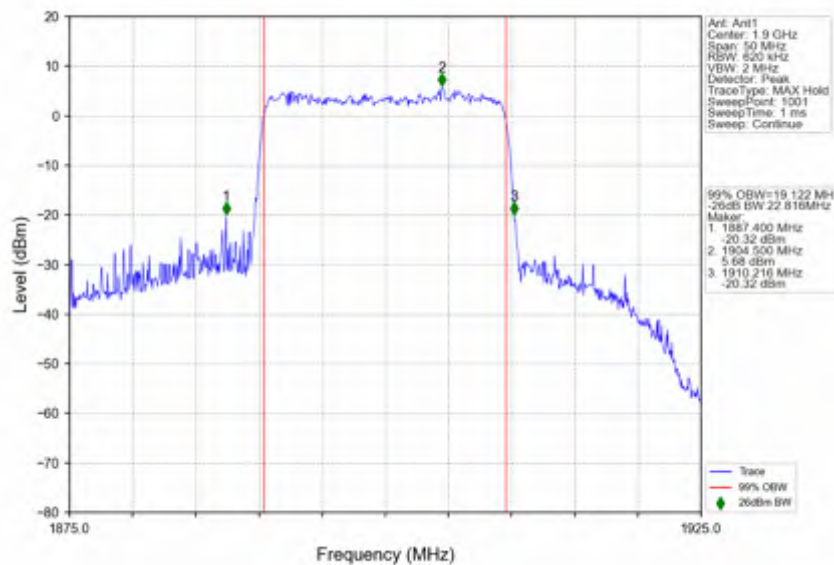
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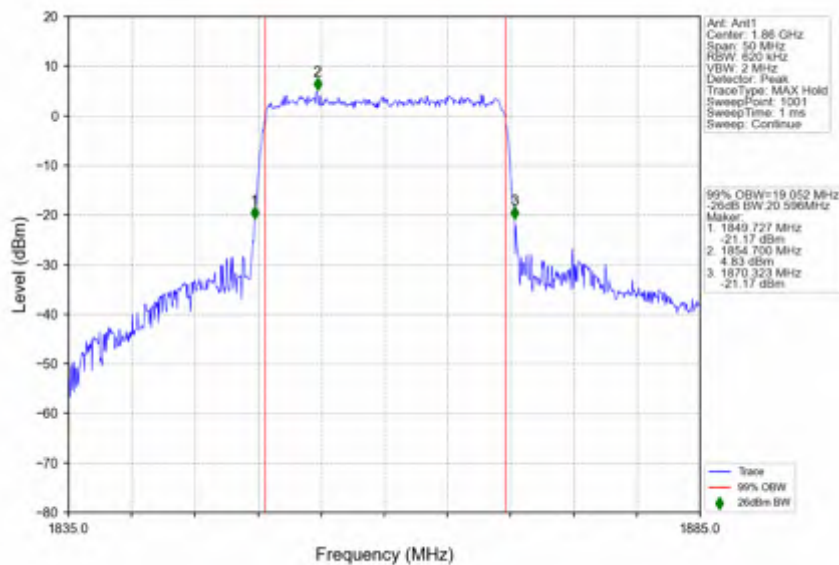


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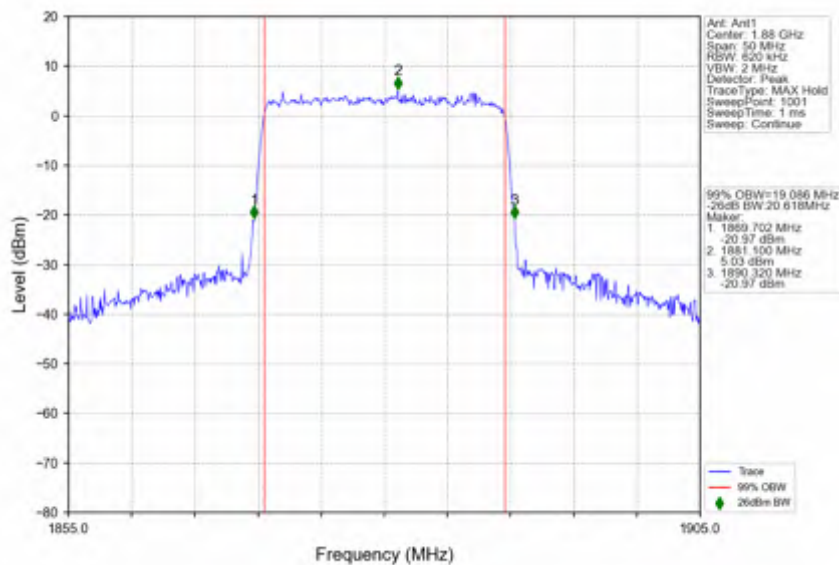
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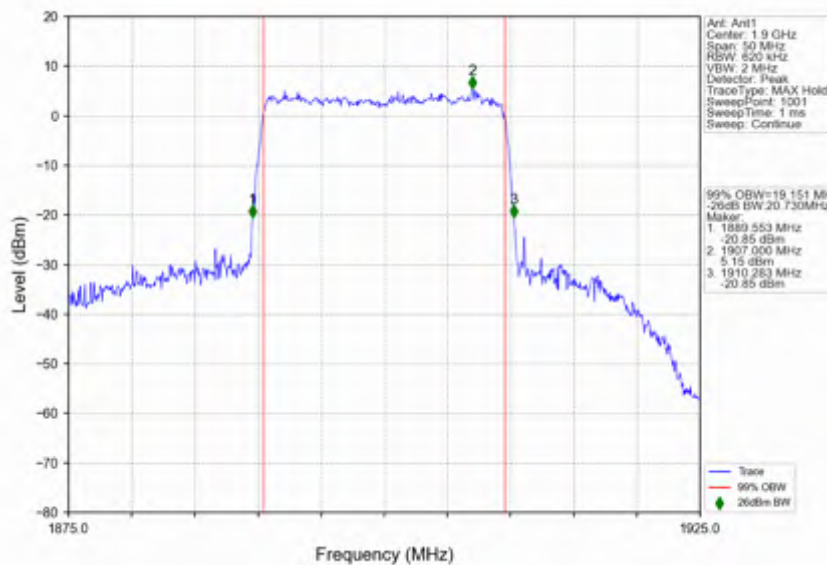


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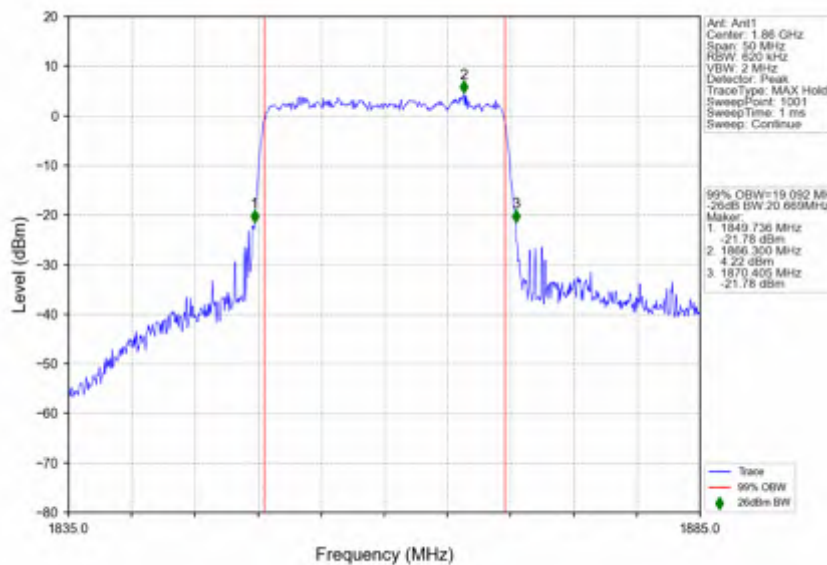
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n2\_15kHz\_SISO\_NTNV\_20MHz\_CP-OFDM 16 QAM\_1900MHz\_Outer\_Full



n2\_15kHz\_SISO\_NTNV\_20MHz\_CP-OFDM 64 QAM\_1860MHz\_Outer\_Full



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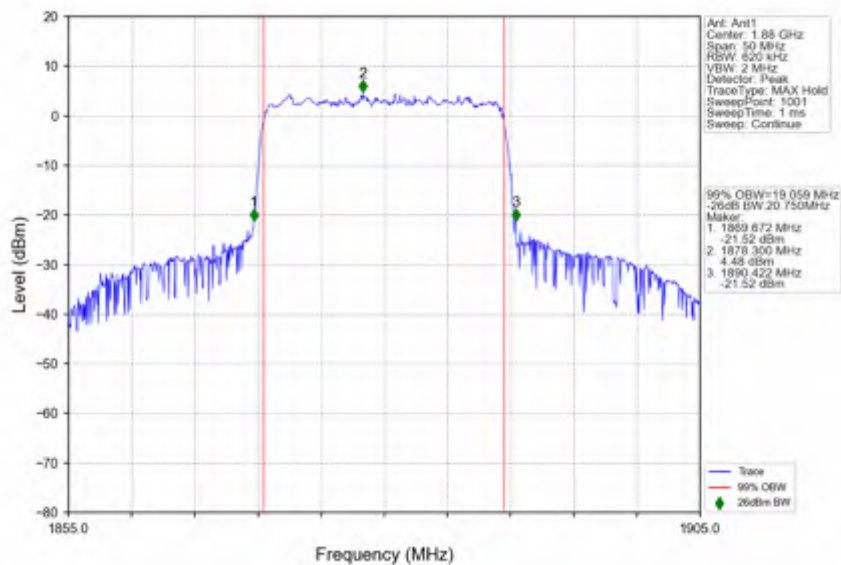
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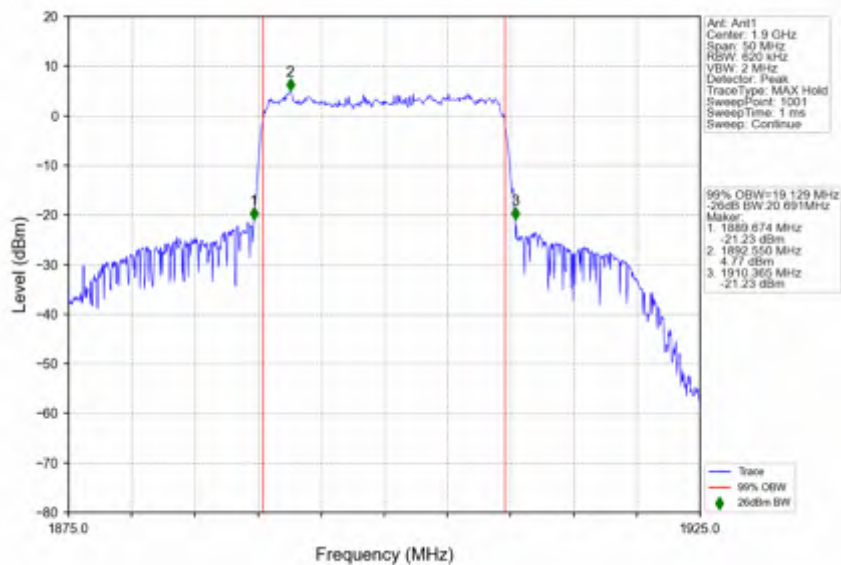
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n2\_15kHz\_SISO\_NTNV\_20MHz\_CP-OFDM 64 QAM\_1880MHz\_Outer\_Full



n2\_15kHz\_SISO\_NTNV\_20MHz\_CP-OFDM 64 QAM\_1900MHz\_Outer\_Full



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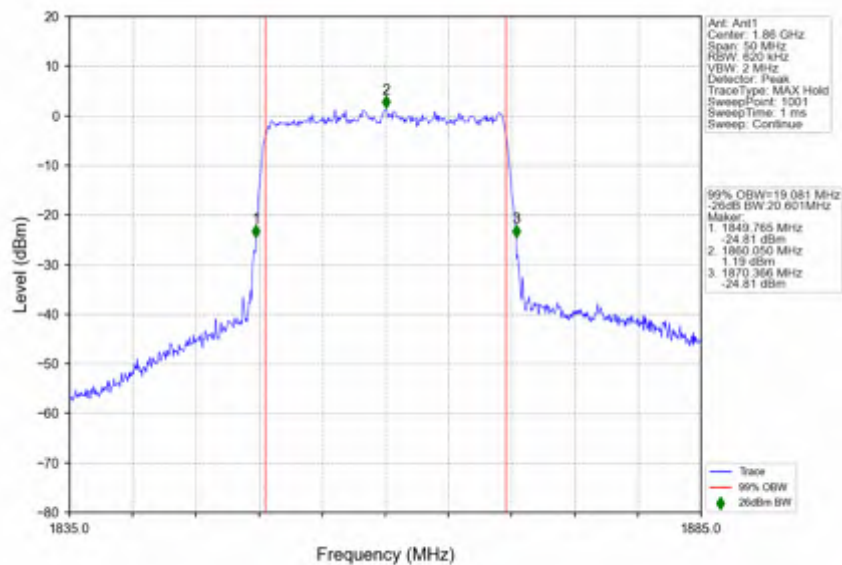
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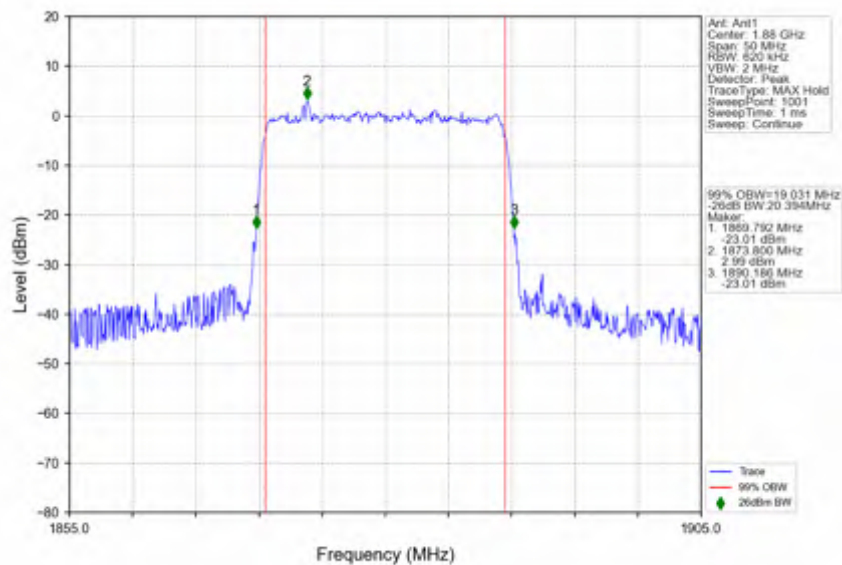
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n2 15kHz SISO NTN 20MHz CP-OFDM 256 QAM 1860MHz Outer Full



n2 15kHz SISO NTNV 20MHz CP-OFDM 256 QAM 1880MHz Outer Full



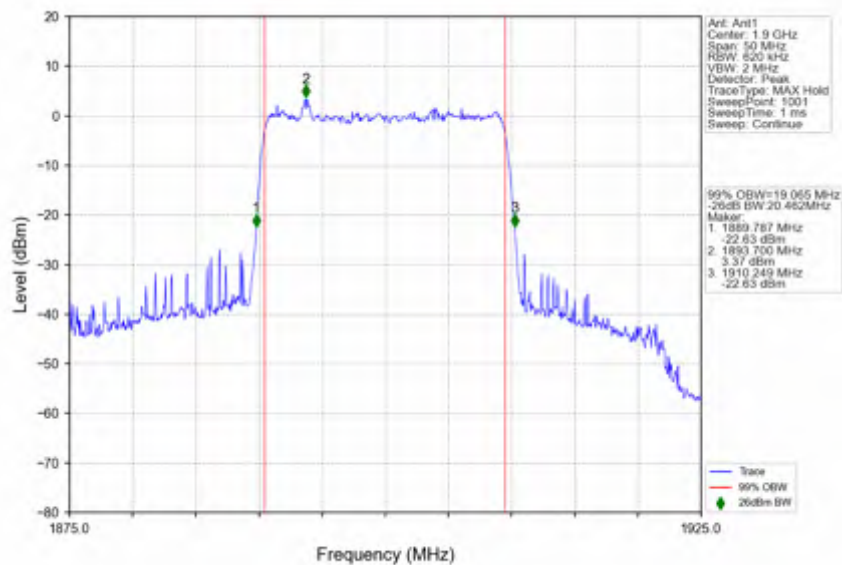
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n2\_15kHz\_SISO\_NTNV\_20MHz\_CP-OFDM\_256\_QAM\_1900MHz\_Outer\_Full



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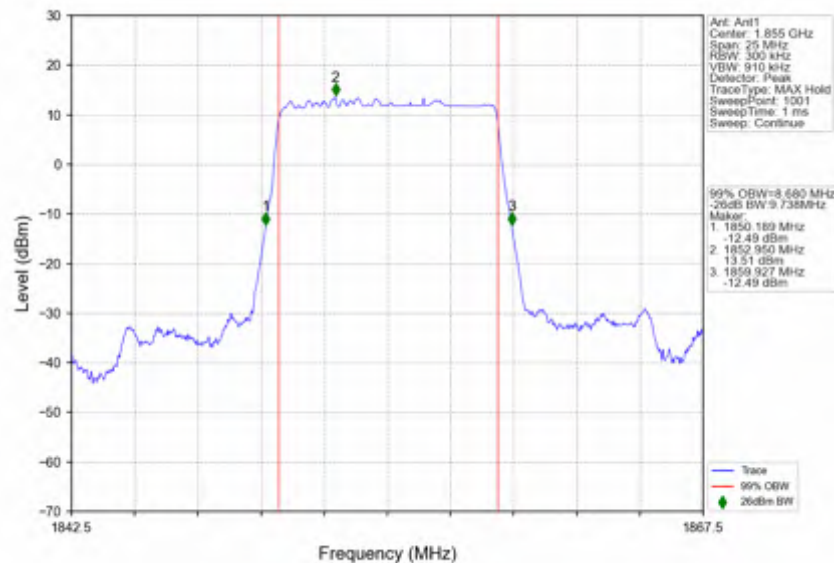
## 1.5 30k\_SISO\_10MHz\_NTNV

### 1.5.1 Test Result

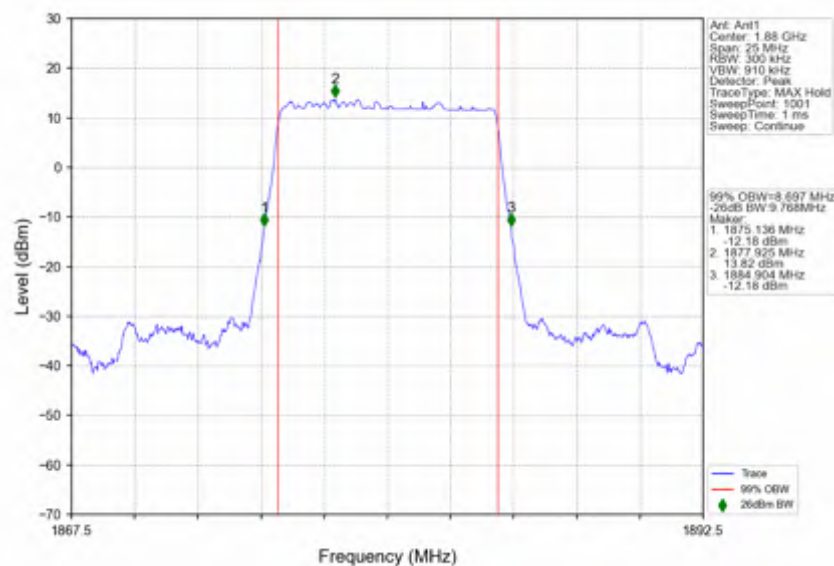
| 5G NR n2 SCS=30kHz SISO 10MHz NTN |                 |               |                     |                      |             |         |
|-----------------------------------|-----------------|---------------|---------------------|----------------------|-------------|---------|
| Modulation                        | Frequency (MHz) | RB Allocation | 99% Bandwidth (MHz) | 26dB Bandwidth (MHz) | Limit (MHz) | Verdict |
| DFT-s-OFDM PI/2 BPSK              | 1855            | Outer_Full    | 8.68                | 9.74                 | /           | Pass    |
|                                   | 1880            | Outer_Full    | 8.70                | 9.77                 | /           | Pass    |
|                                   | 1905            | Outer_Full    | 8.69                | 9.75                 | /           | Pass    |
| DFT-s-OFDM QPSK                   | 1855            | Outer_Full    | 8.68                | 9.86                 | /           | Pass    |
|                                   | 1880            | Outer_Full    | 8.69                | 9.79                 | /           | Pass    |
|                                   | 1905            | Outer_Full    | 8.67                | 9.75                 | /           | Pass    |
| DFT-s-OFDM 16 QAM                 | 1855            | Outer_Full    | 8.73                | 9.74                 | /           | Pass    |
|                                   | 1880            | Outer_Full    | 8.74                | 9.76                 | /           | Pass    |
|                                   | 1905            | Outer_Full    | 8.66                | 9.77                 | /           | Pass    |
| DFT-s-OFDM 64 QAM                 | 1855            | Outer_Full    | 8.68                | 9.71                 | /           | Pass    |
|                                   | 1880            | Outer_Full    | 8.67                | 9.66                 | /           | Pass    |
|                                   | 1905            | Outer_Full    | 8.66                | 9.67                 | /           | Pass    |
| DFT-s-OFDM 256 QAM                | 1855            | Outer_Full    | 8.69                | 9.70                 | /           | Pass    |
|                                   | 1880            | Outer_Full    | 8.71                | 9.73                 | /           | Pass    |
|                                   | 1905            | Outer_Full    | 8.69                | 9.73                 | /           | Pass    |
| CP-OFDM QPSK                      | 1855            | Outer_Full    | 8.64                | 9.78                 | /           | Pass    |
|                                   | 1880            | Outer_Full    | 8.65                | 9.83                 | /           | Pass    |
|                                   | 1905            | Outer_Full    | 8.65                | 9.80                 | /           | Pass    |
| CP-OFDM 16 QAM                    | 1855            | Outer_Full    | 8.67                | 9.74                 | /           | Pass    |
|                                   | 1880            | Outer_Full    | 8.68                | 9.80                 | /           | Pass    |
|                                   | 1905            | Outer_Full    | 8.68                | 9.74                 | /           | Pass    |
| CP-OFDM 64 QAM                    | 1855            | Outer_Full    | 8.67                | 9.87                 | /           | Pass    |
|                                   | 1880            | Outer_Full    | 8.68                | 9.87                 | /           | Pass    |
|                                   | 1905            | Outer_Full    | 8.67                | 9.75                 | /           | Pass    |
| CP-OFDM 256 QAM                   | 1855            | Outer_Full    | 8.68                | 9.70                 | /           | Pass    |
|                                   | 1880            | Outer_Full    | 8.70                | 10.14                | /           | Pass    |
|                                   | 1905            | Outer_Full    | 8.68                | 9.70                 | /           | Pass    |

## 1.5.2 Test Graph

n2\_30kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM PI/2 BPSK\_1855MHz\_Outer\_Full



n2\_30kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM PI/2 BPSK\_1880MHz\_Outer\_Full



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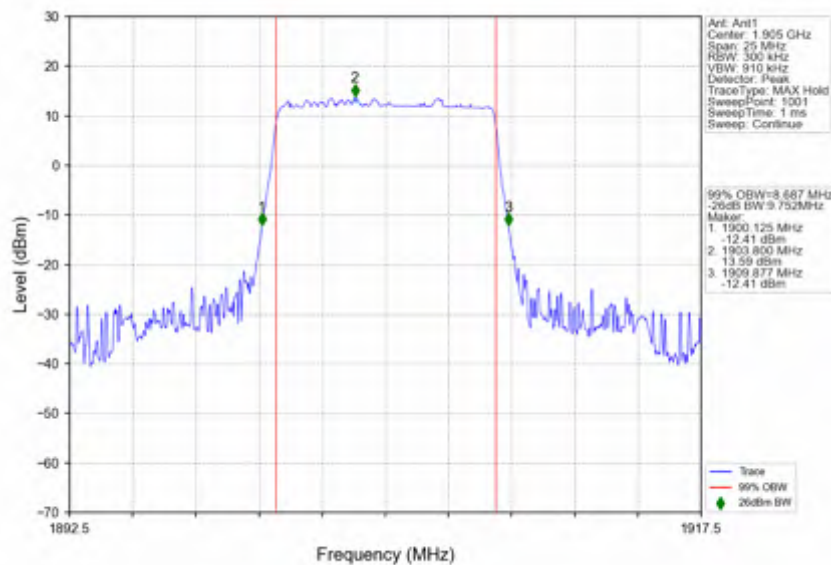
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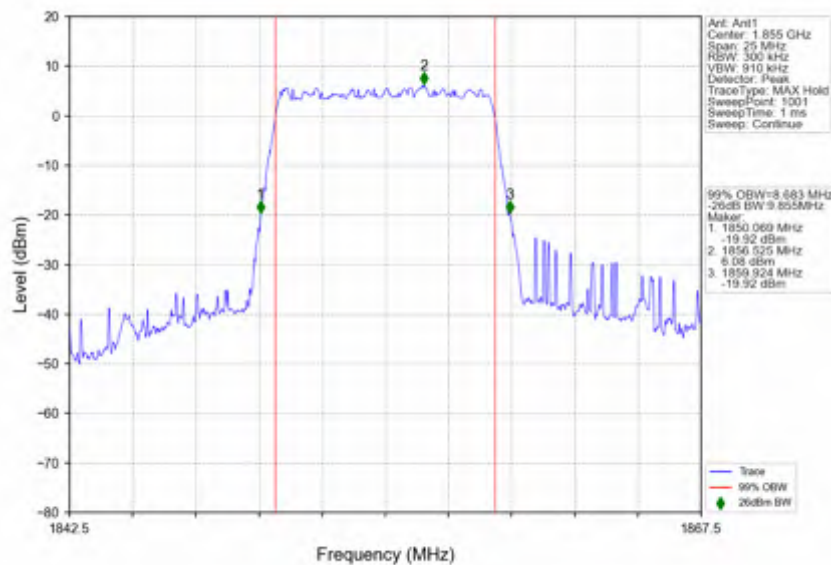
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n2\_30kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM PI/2 BPSK\_1905MHz\_Outer\_Full



n2\_30kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM QPSK\_1855MHz\_Outer\_Full



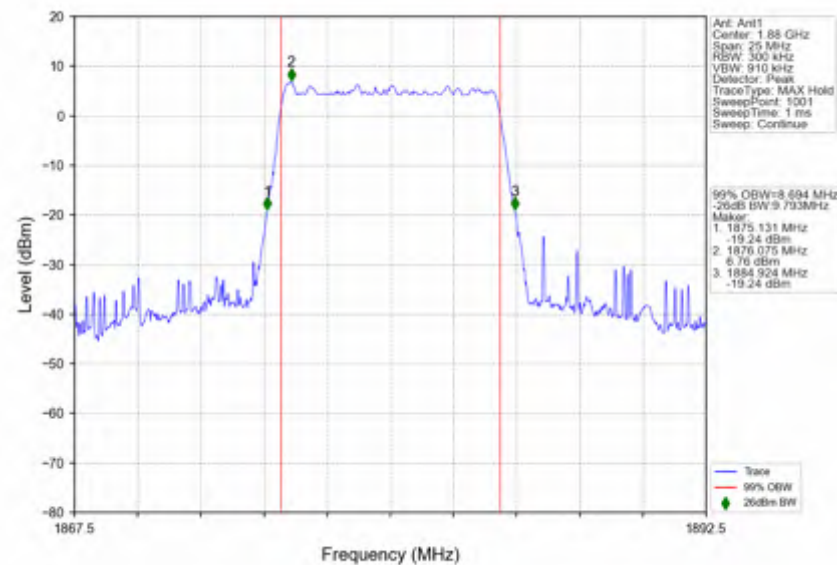
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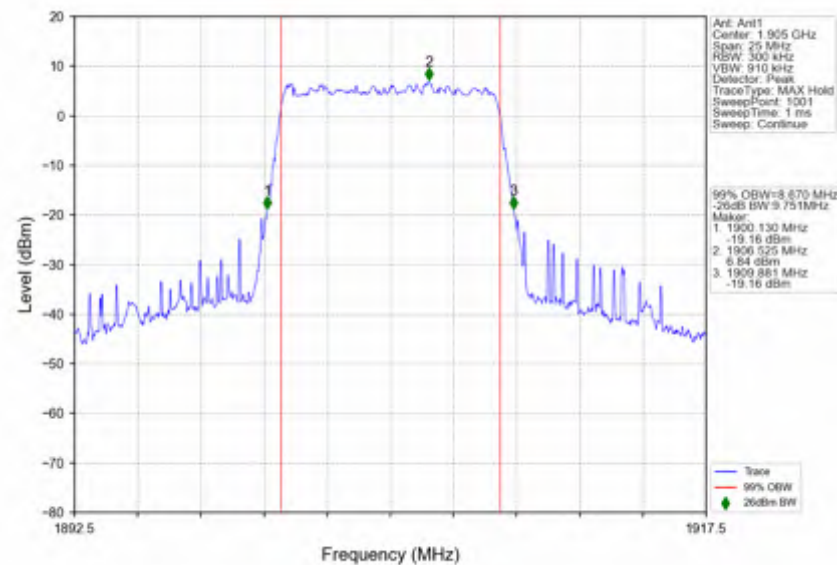
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n2\_30kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM\_QPSK\_1880MHz\_Outer\_Full



n2\_30kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM\_QPSK\_1905MHz\_Outer\_Full



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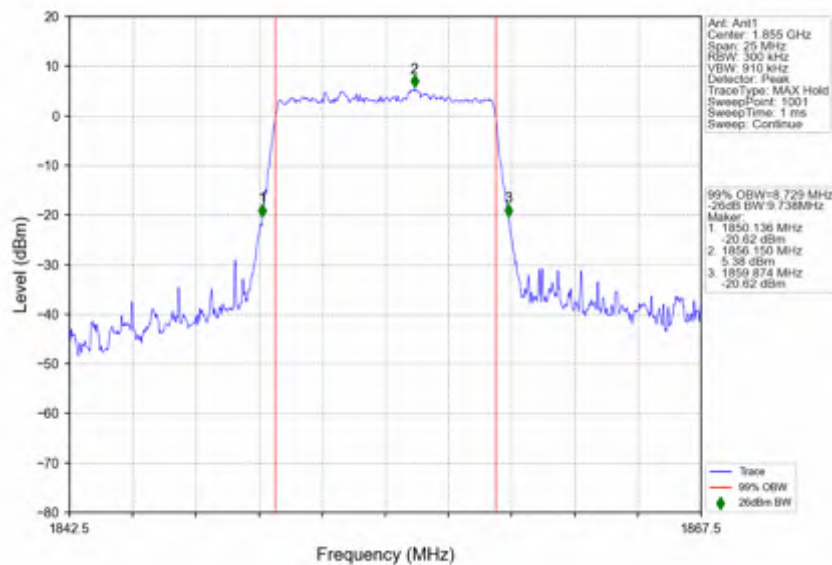
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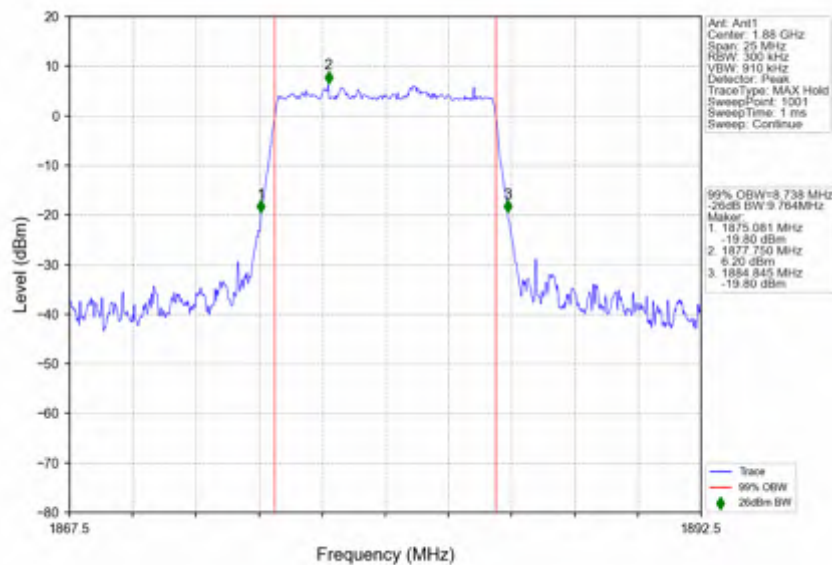
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n2\_30kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM\_16\_QAM\_1855MHz\_Outer\_Full



n2\_30kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM\_16\_QAM\_1880MHz\_Outer\_Full



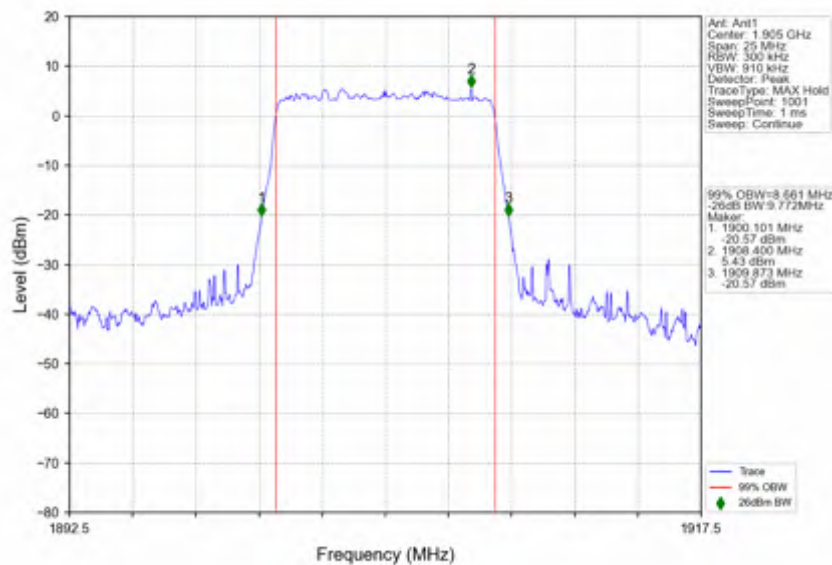
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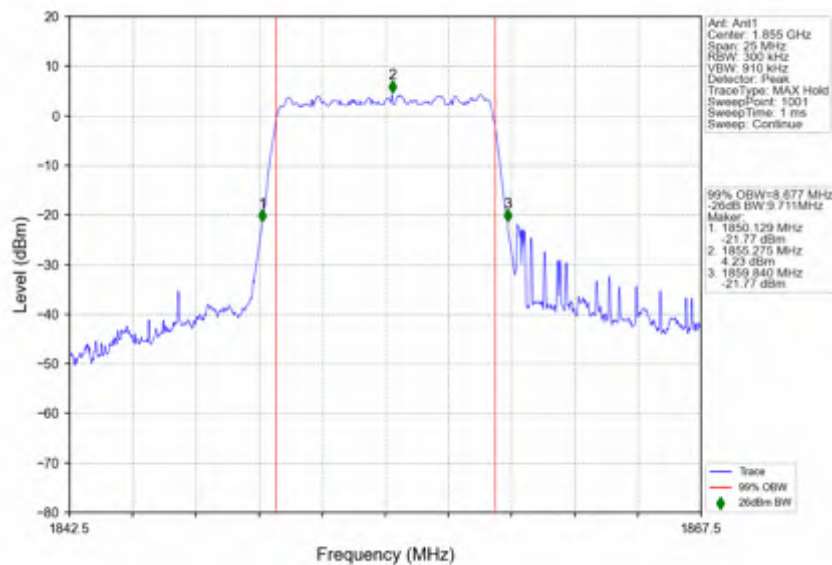
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n2 30kHz SISO NTNv 10MHz DFT-s-OFDM 16 QAM 1905MHz Outer Full



|    |       |      |      |       |            |        |         |       |      |
|----|-------|------|------|-------|------------|--------|---------|-------|------|
| n2 | 30kHz | SISO | NTNV | 10MHz | DFT-s-OFDM | 64 QAM | 1855MHz | Outer | Full |
|----|-------|------|------|-------|------------|--------|---------|-------|------|

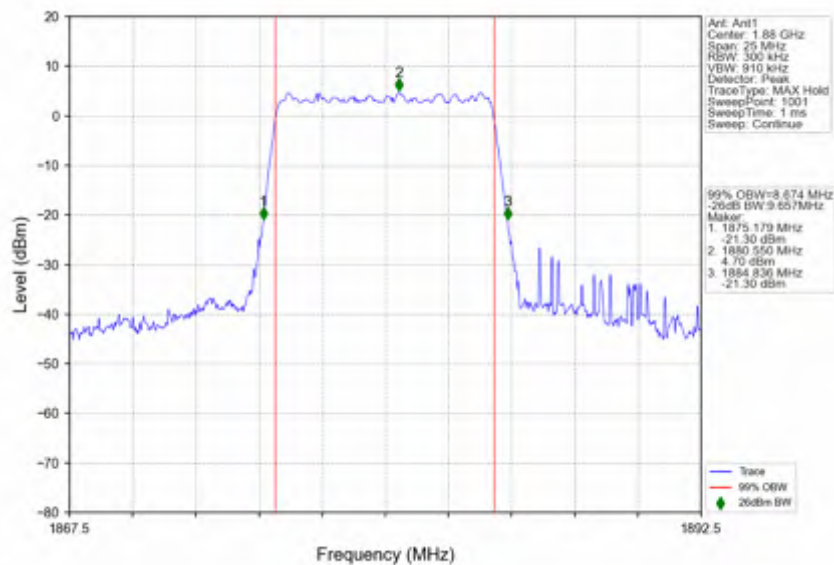


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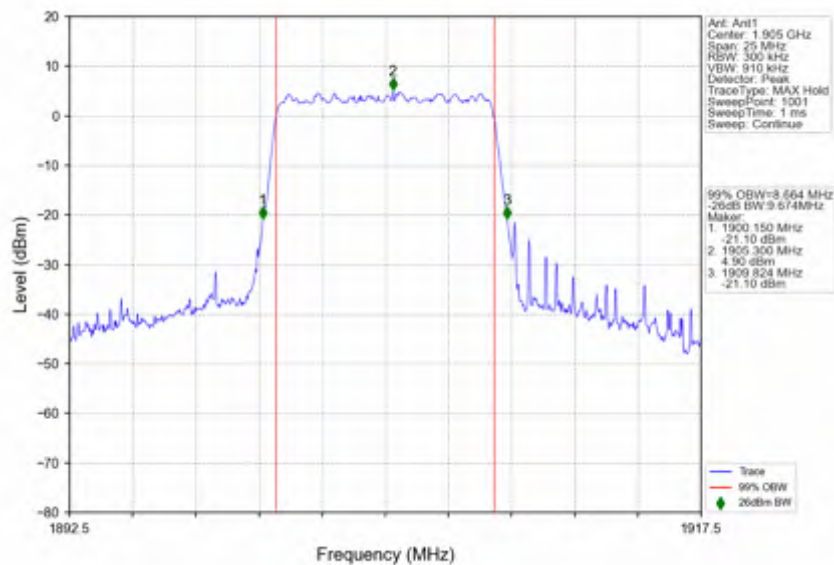
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n2\_30kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM 64 QAM\_1905MHz\_Outer\_Full



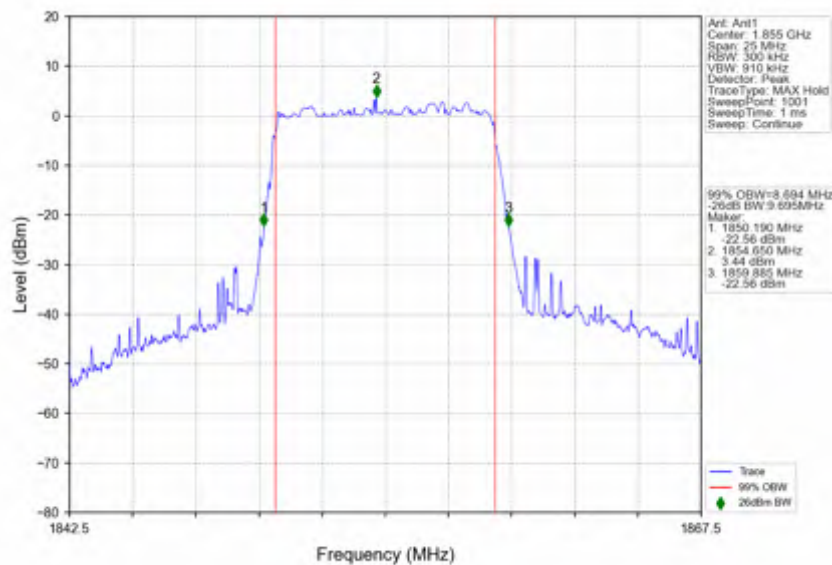
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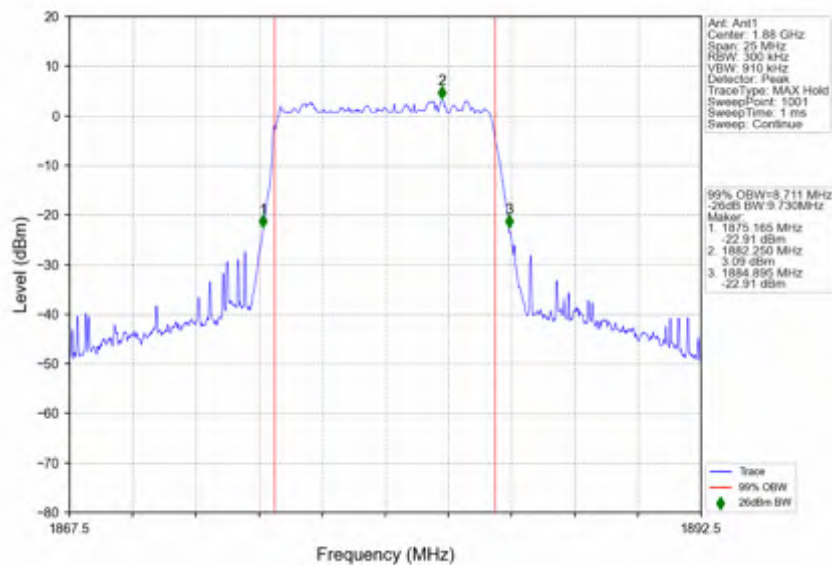
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n2\_30kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM\_256\_QAM\_1880MHz\_Outer\_Full



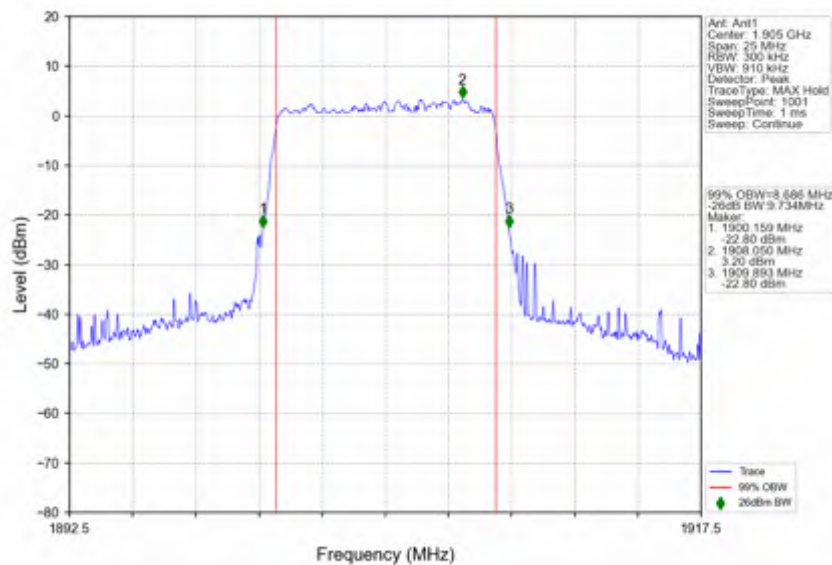
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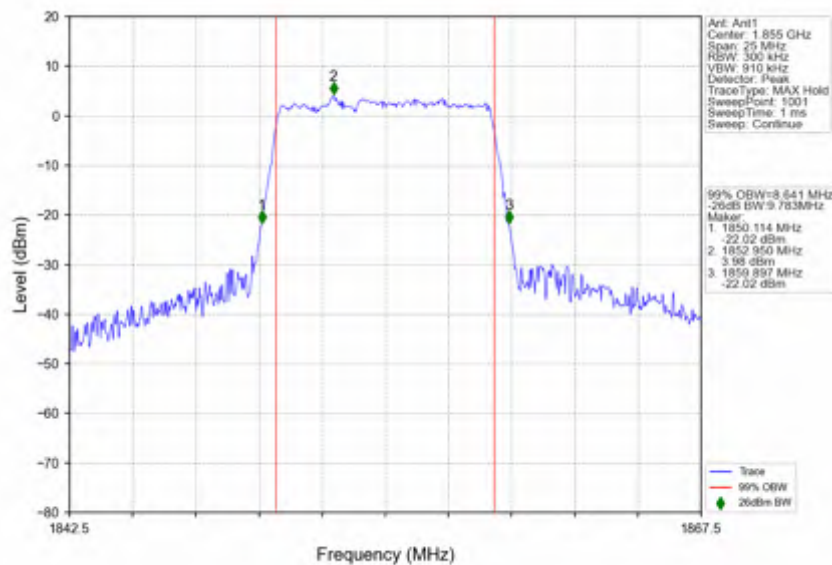
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n2 30kHz SISO NTV 10MHz DFT-s-OFDM 256 QAM 1905MHz Outer Full



n2 30kHz SISO NTV 10MHz CP-OFDM QPSK 1855MHz Outer Full



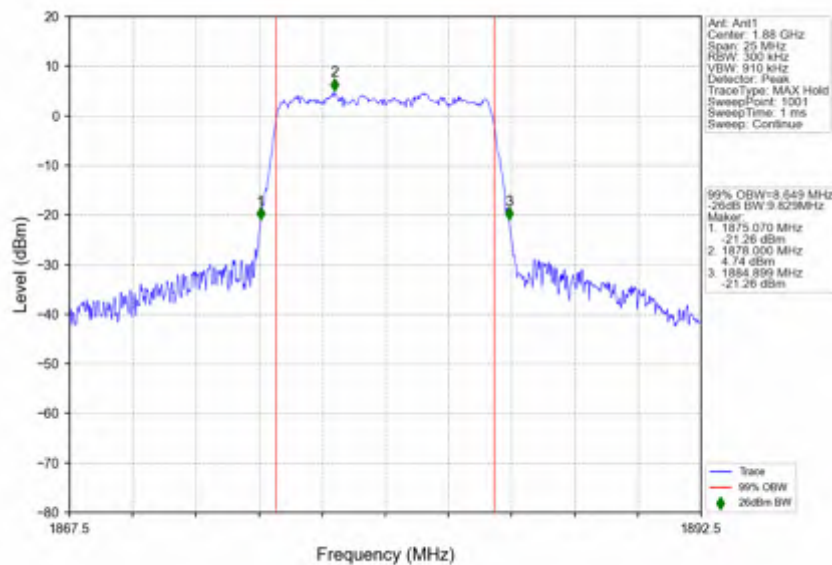
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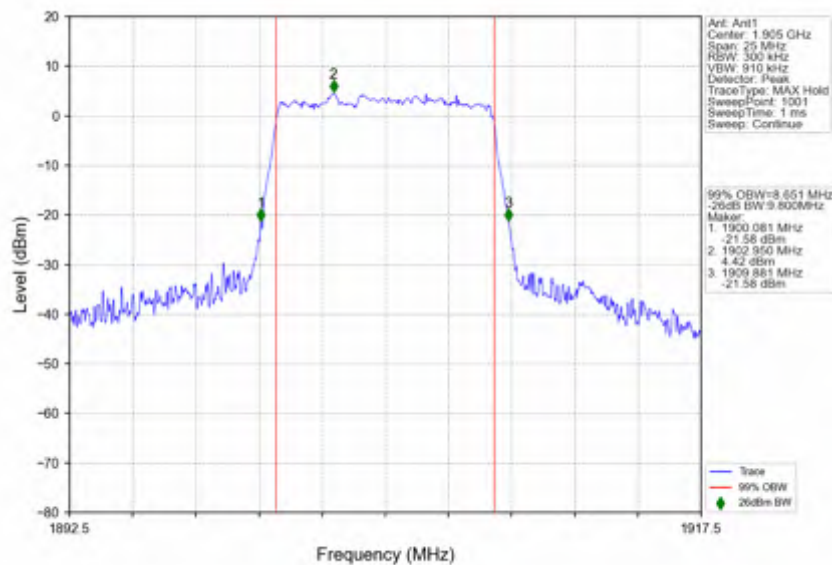
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n2\_30kHz\_SISO\_NTNV\_10MHz\_CP-OFDM QPSK\_1880MHz\_Outer\_Full



n2\_30kHz\_SISO\_NTNV\_10MHz\_CP-OFDM QPSK\_1905MHz\_Outer\_Full



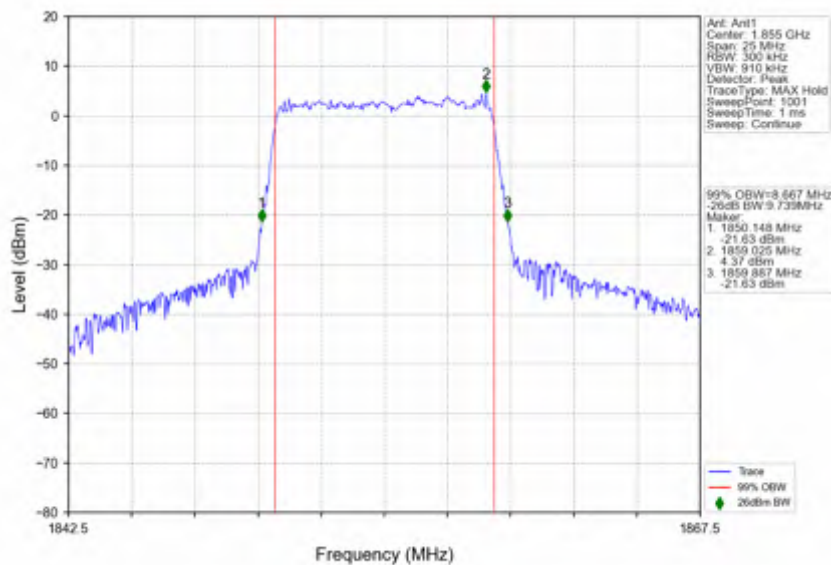
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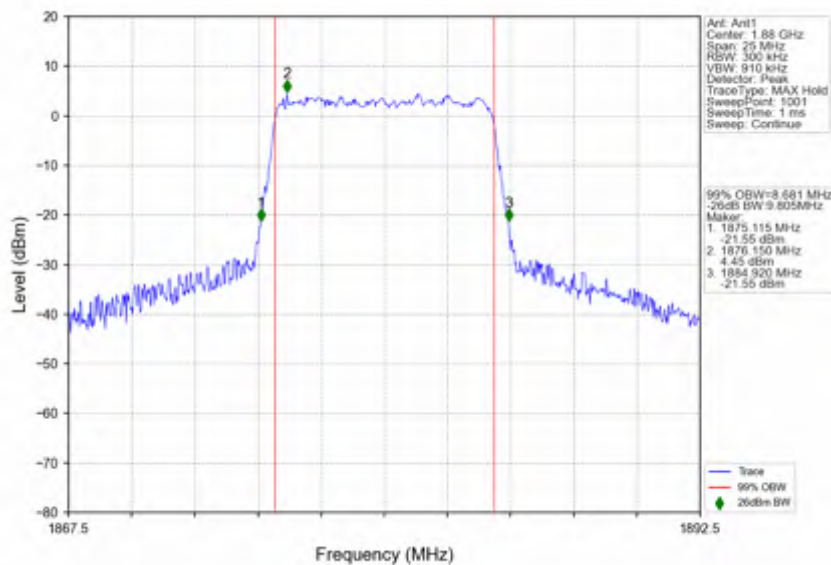
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n2\_30kHz\_SISO\_NTNV\_10MHz\_CP-OFDM\_16\_QAM\_1855MHz\_Outer\_Full



n2 30kHz SISO NTN 10MHz CP-OFDM 16 QAM 1880MHz Outer Full

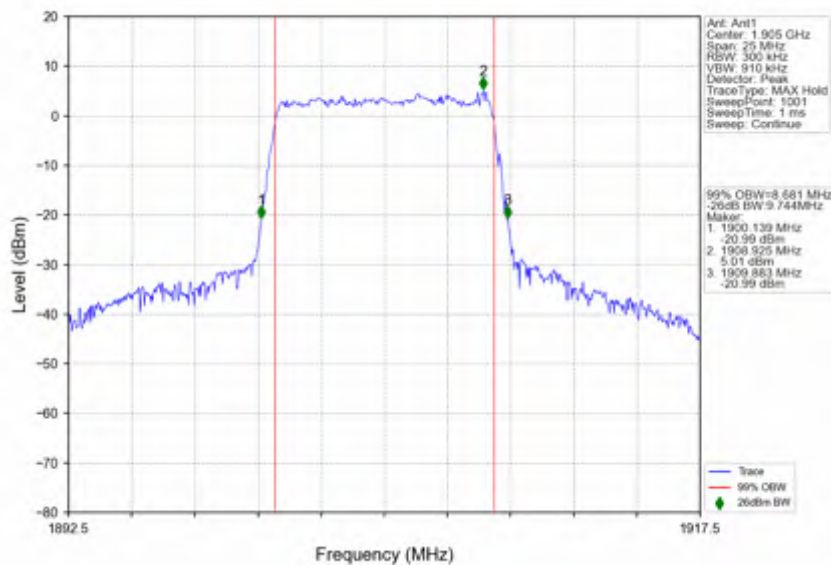


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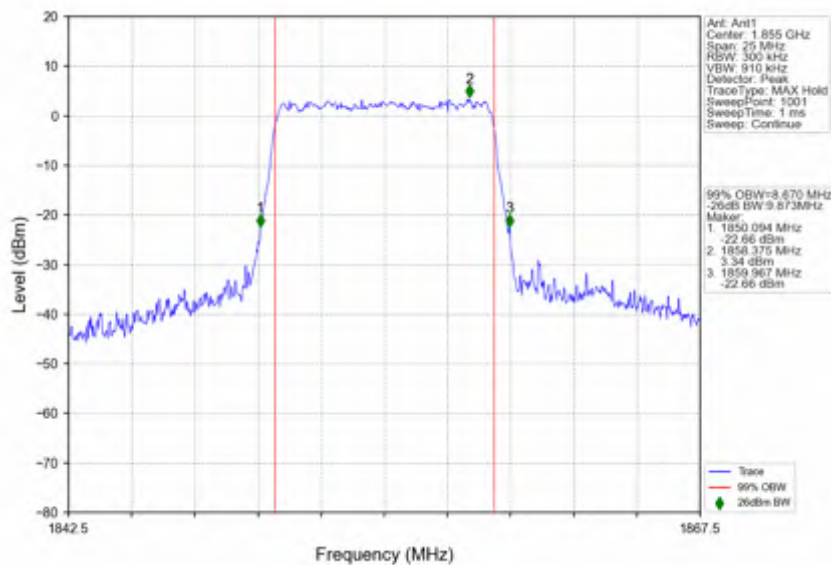
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n2\_30kHz\_SISO\_NTNV\_10MHz\_CP-OFDM 16 QAM\_1905MHz\_Outer\_Full



n2\_30kHz\_SISO\_NTNV\_10MHz\_CP-OFDM 64 QAM\_1855MHz\_Outer\_Full



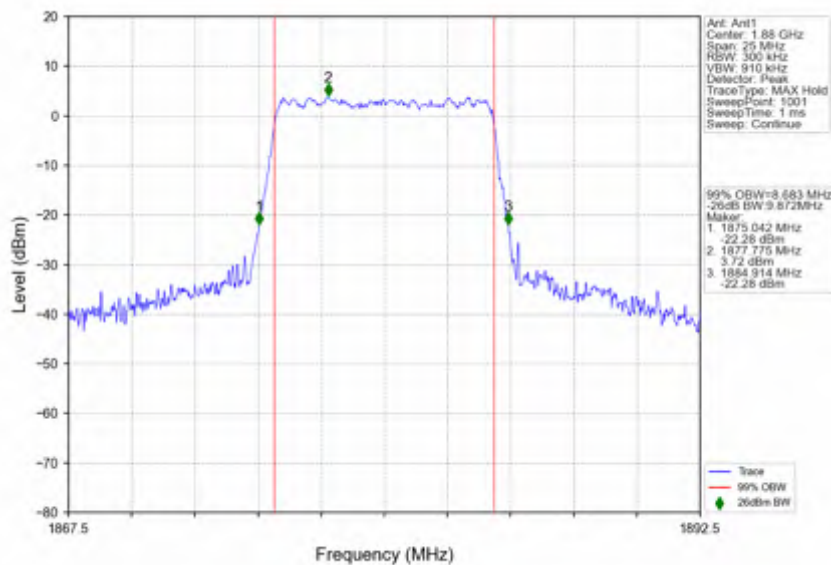
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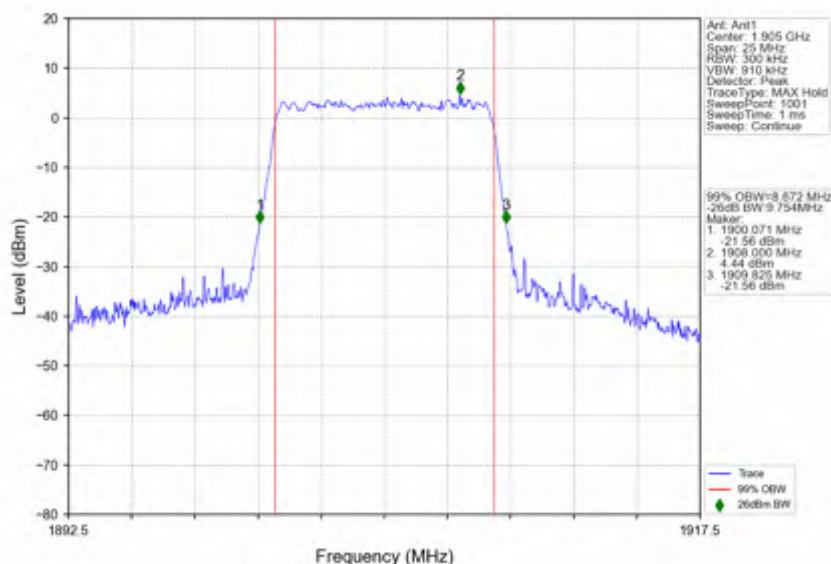
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n2\_30kHz\_SISO\_NTNV\_10MHz\_CP-OFDM 64 QAM\_1880MHz\_Outer\_Full



n2\_30kHz\_SISO\_NTNV\_10MHz\_CP-OFDM 64 QAM\_1905MHz\_Outer\_Full



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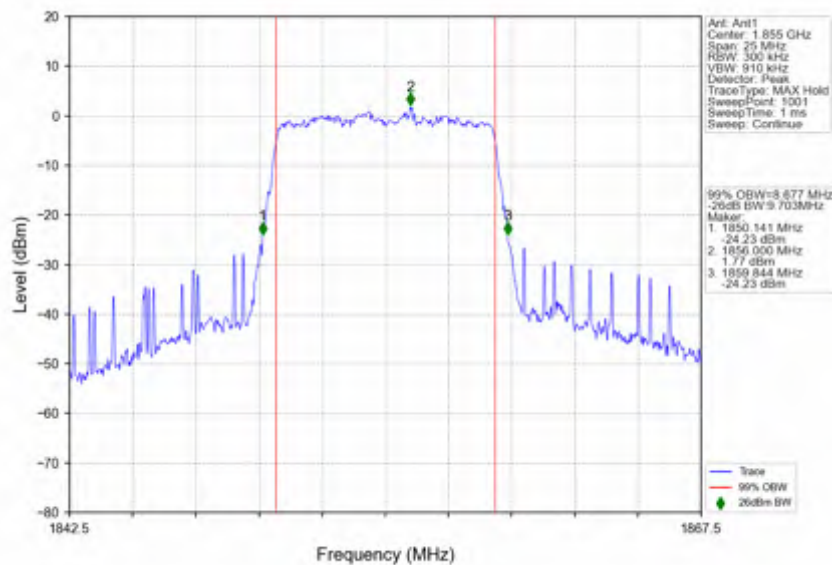
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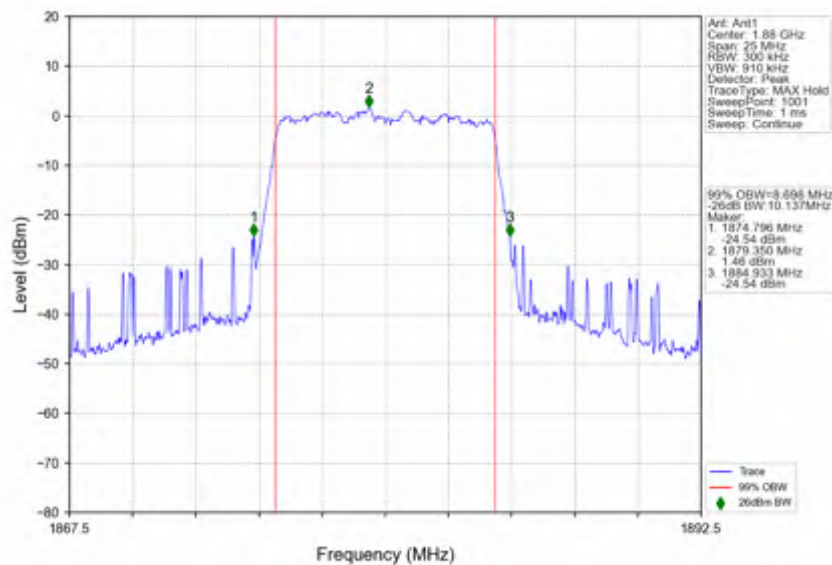
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n2 30kHz SISO NTNv 10MHz CP-OFDM 256 QAM 1855MHz Outer Full



n2 30kHz SISO NTV 10MHz CP-OFDM 256 QAM 1880MHz Outer Full

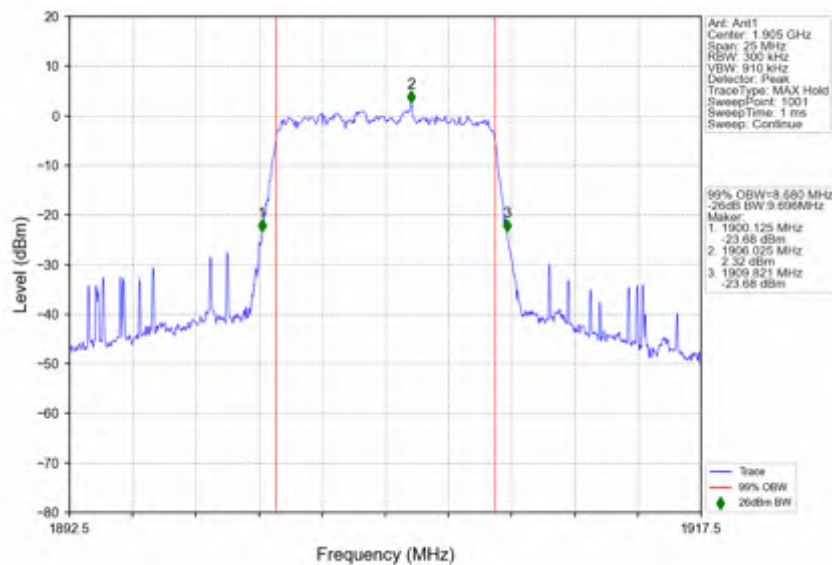


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n2\_30kHz\_SISO\_NTNV\_10MHz\_CP-OFDM\_256\_QAM\_1905MHz\_Outer\_Full



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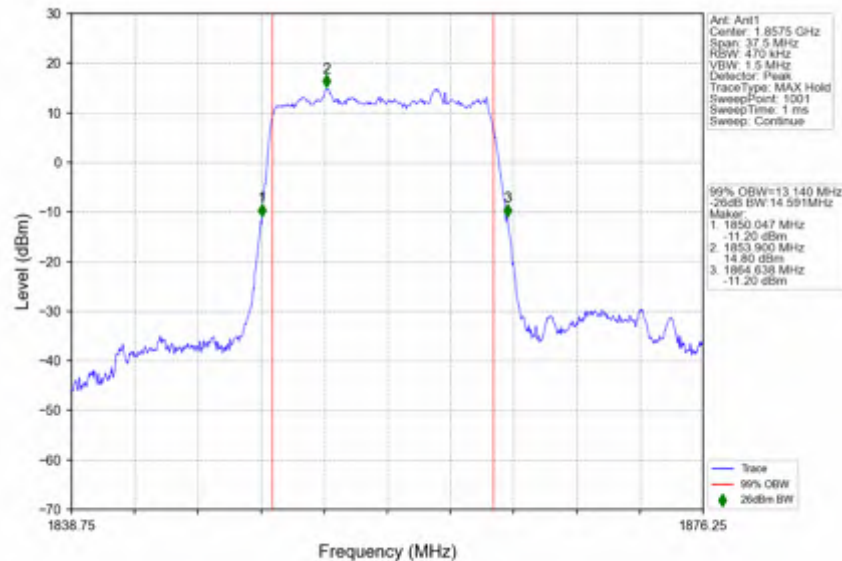
## 1.6 30k\_SISO\_15MHz\_NTNV

### 1.6.1 Test Result

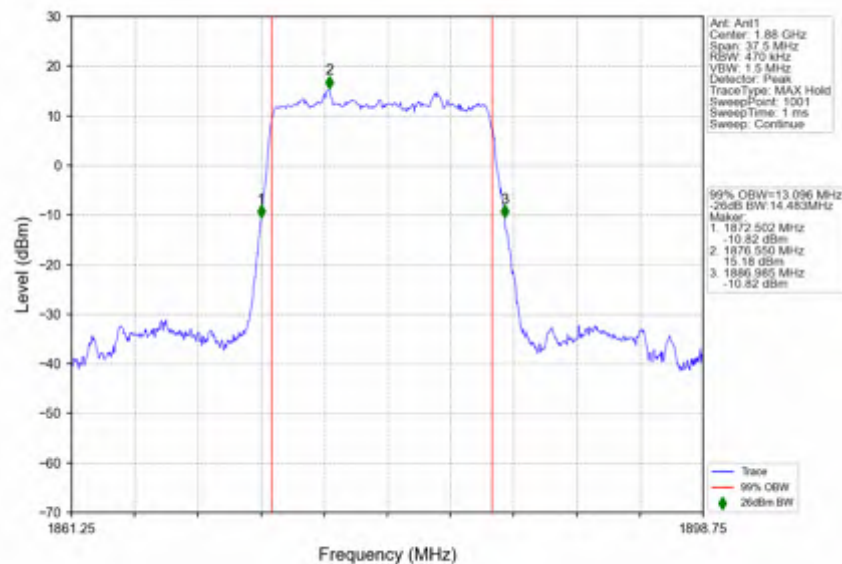
| 5G NR n2 SCS=30kHz SISO 15MHz NTN |                 |               |                     |                      |             |         |
|-----------------------------------|-----------------|---------------|---------------------|----------------------|-------------|---------|
| Modulation                        | Frequency (MHz) | RB Allocation | 99% Bandwidth (MHz) | 26dB Bandwidth (MHz) | Limit (MHz) | Verdict |
| DFT-s-OFDM PI/2 BPSK              | 1857.5          | Outer_Full    | 13.14               | 14.59                | /           | Pass    |
|                                   | 1880            | Outer_Full    | 13.10               | 14.48                | /           | Pass    |
|                                   | 1902.5          | Outer_Full    | 13.12               | 14.54                | /           | Pass    |
| DFT-s-OFDM QPSK                   | 1857.5          | Outer_Full    | 13.04               | 14.54                | /           | Pass    |
|                                   | 1880            | Outer_Full    | 13.03               | 14.44                | /           | Pass    |
|                                   | 1902.5          | Outer_Full    | 13.03               | 14.38                | /           | Pass    |
| DFT-s-OFDM 16 QAM                 | 1857.5          | Outer_Full    | 13.05               | 14.63                | /           | Pass    |
|                                   | 1880            | Outer_Full    | 13.02               | 14.55                | /           | Pass    |
|                                   | 1902.5          | Outer_Full    | 13.04               | 14.66                | /           | Pass    |
| DFT-s-OFDM 64 QAM                 | 1857.5          | Outer_Full    | 13.02               | 14.63                | /           | Pass    |
|                                   | 1880            | Outer_Full    | 13.01               | 14.59                | /           | Pass    |
|                                   | 1902.5          | Outer_Full    | 13.03               | 14.56                | /           | Pass    |
| DFT-s-OFDM 256 QAM                | 1857.5          | Outer_Full    | 13.01               | 14.44                | /           | Pass    |
|                                   | 1880            | Outer_Full    | 13.09               | 14.66                | /           | Pass    |
|                                   | 1902.5          | Outer_Full    | 13.10               | 14.54                | /           | Pass    |
| CP-OFDM QPSK                      | 1857.5          | Outer_Full    | 13.69               | 15.02                | /           | Pass    |
|                                   | 1880            | Outer_Full    | 13.71               | 15.20                | /           | Pass    |
|                                   | 1902.5          | Outer_Full    | 13.68               | 15.56                | /           | Pass    |
| CP-OFDM 16 QAM                    | 1857.5          | Outer_Full    | 13.71               | 15.06                | /           | Pass    |
|                                   | 1880            | Outer_Full    | 13.74               | 15.18                | /           | Pass    |
|                                   | 1902.5          | Outer_Full    | 13.77               | 15.20                | /           | Pass    |
| CP-OFDM 64 QAM                    | 1857.5          | Outer_Full    | 13.70               | 15.05                | /           | Pass    |
|                                   | 1880            | Outer_Full    | 13.72               | 15.06                | /           | Pass    |
|                                   | 1902.5          | Outer_Full    | 13.70               | 15.14                | /           | Pass    |
| CP-OFDM 256 QAM                   | 1857.5          | Outer_Full    | 13.72               | 15.09                | /           | Pass    |
|                                   | 1880            | Outer_Full    | 13.71               | 15.06                | /           | Pass    |
|                                   | 1902.5          | Outer_Full    | 13.72               | 15.11                | /           | Pass    |

## 1.6.2 Test Graph

n2\_30kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM\_PI/2\_BPSK\_1857.5MHz\_Outer\_Full



n2\_30kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM\_PI/2\_BPSK\_1880MHz\_Outer\_Full

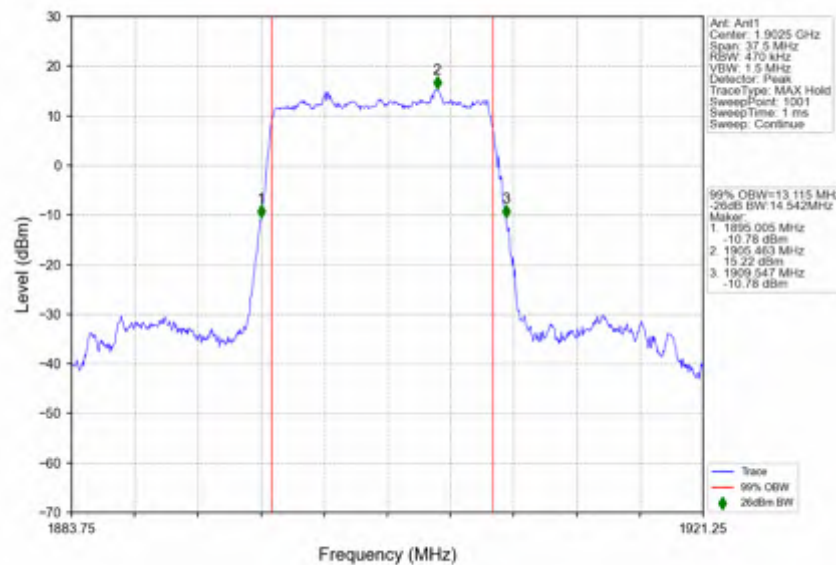


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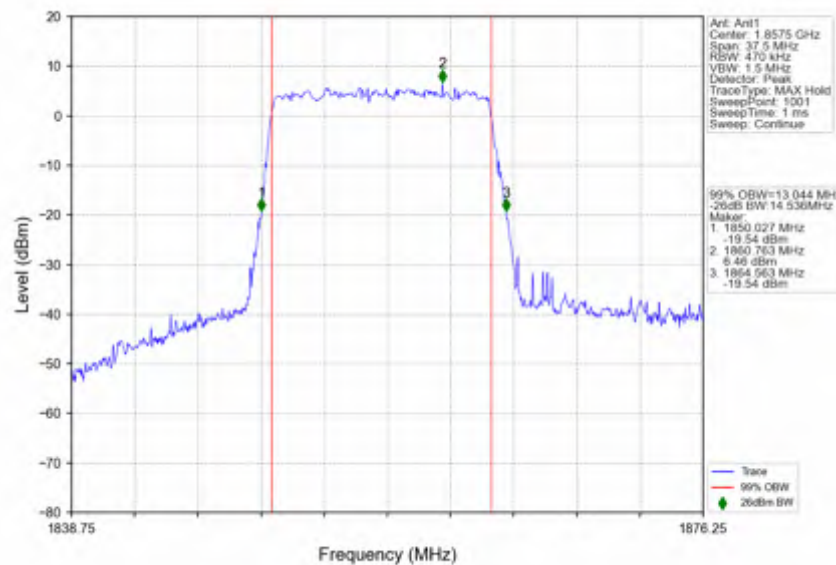
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n2\_30kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM PI/2 BPSK\_1902.5MHz\_Outer\_Full



n2\_30kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM QPSK\_1857.5MHz\_Outer\_Full

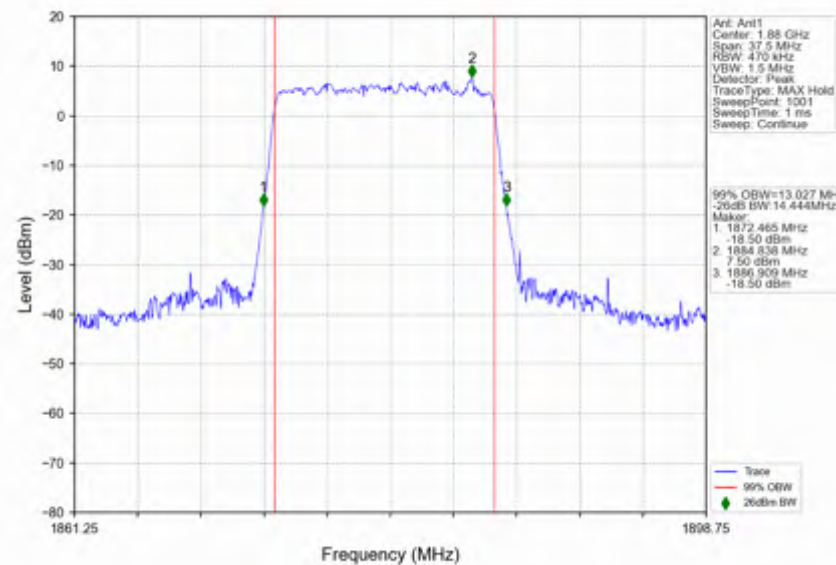


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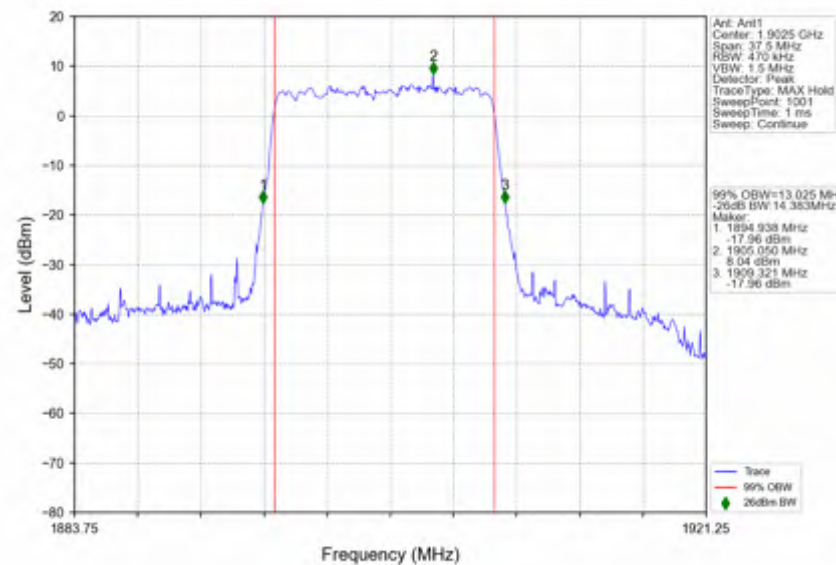
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n2\_30kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM QPSK\_1880MHz\_Outer\_Full



n2\_30kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM QPSK\_1902.5MHz\_Outer\_Full



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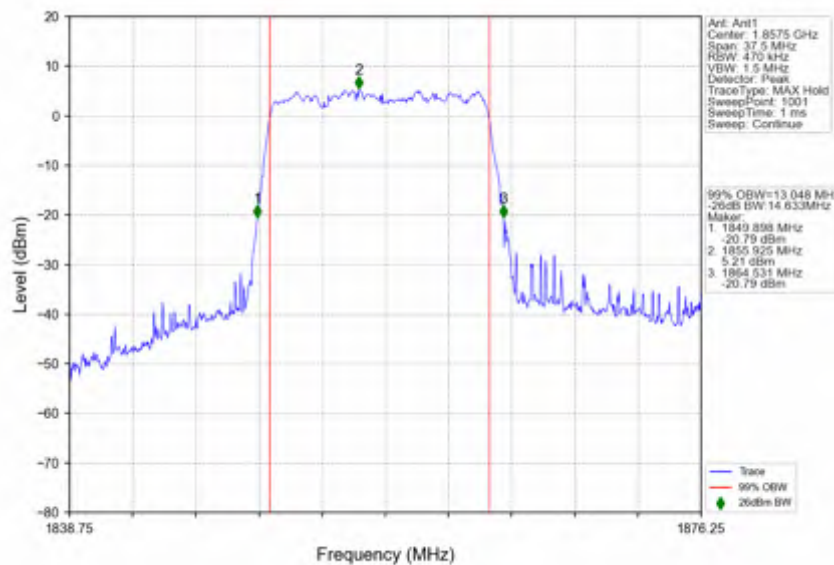
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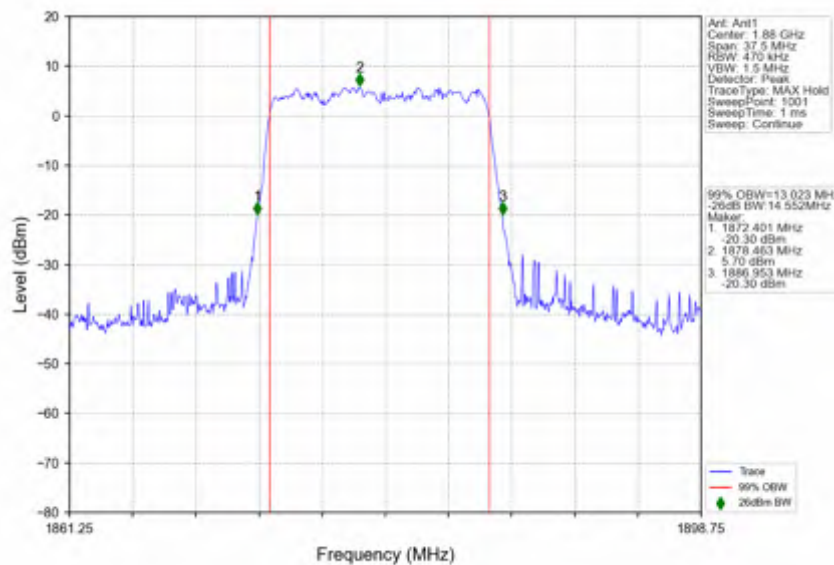
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n2\_30kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM\_16\_QAM\_1857.5MHz\_Outer\_Full



n2 30kHz SISO NTNv 15MHz DFT-s-OFDM 16 QAM 1880MHz Outer Full

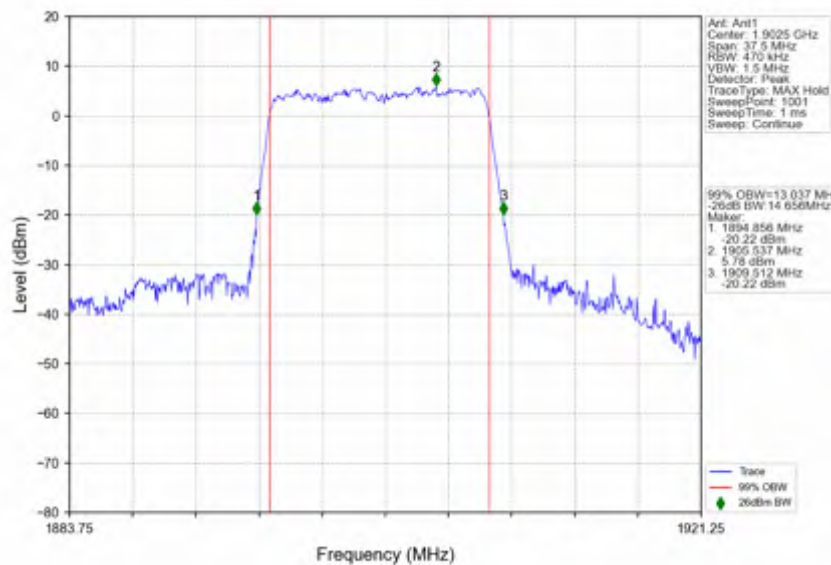


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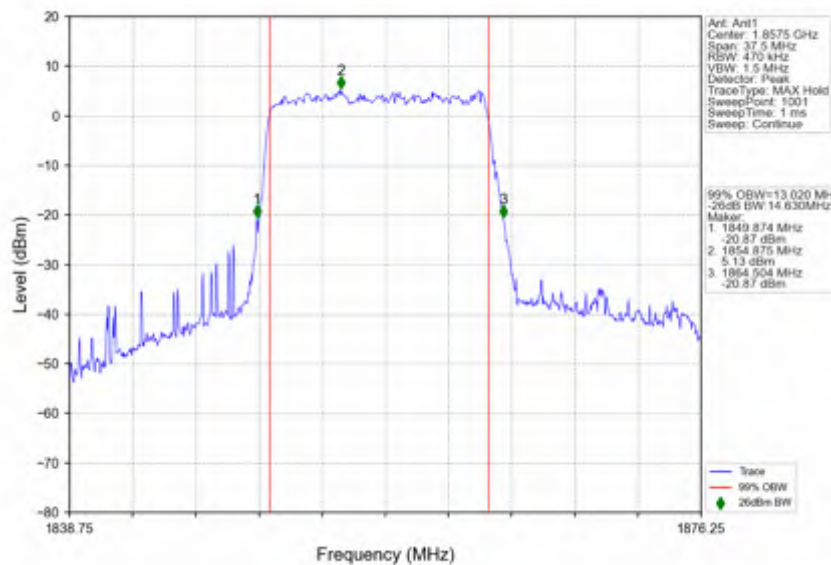
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n2\_30kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM\_16\_QAM\_1902.5MHz\_Outer\_Full



n2 30kHz SISO NTV 15MHz DFT-s-OFDM 64 QAM 1857.5MHz Outer Full

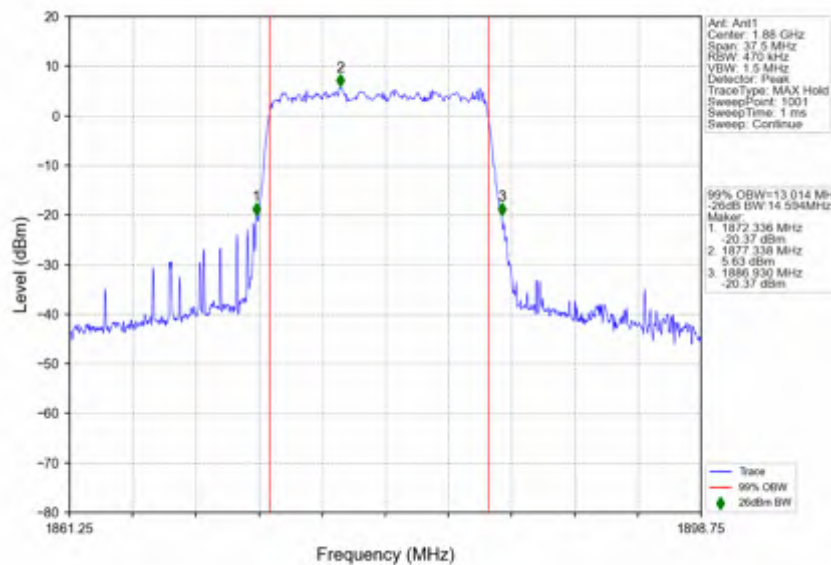


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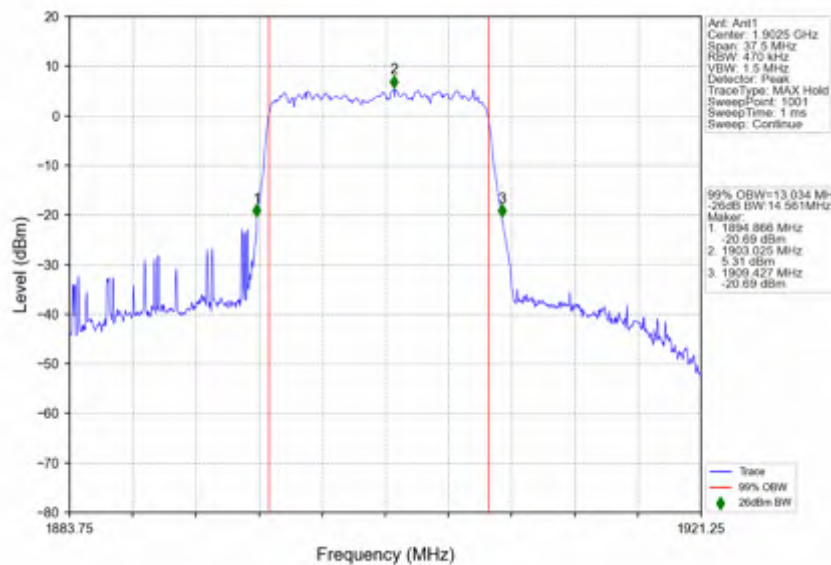
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n2 30kHz SISO NTNv 15MHz DFT-s-OFDM 64 QAM 1880MHz Outer Full



n2\_30kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM\_64\_QAM\_1902.5MHz\_Outer\_Full

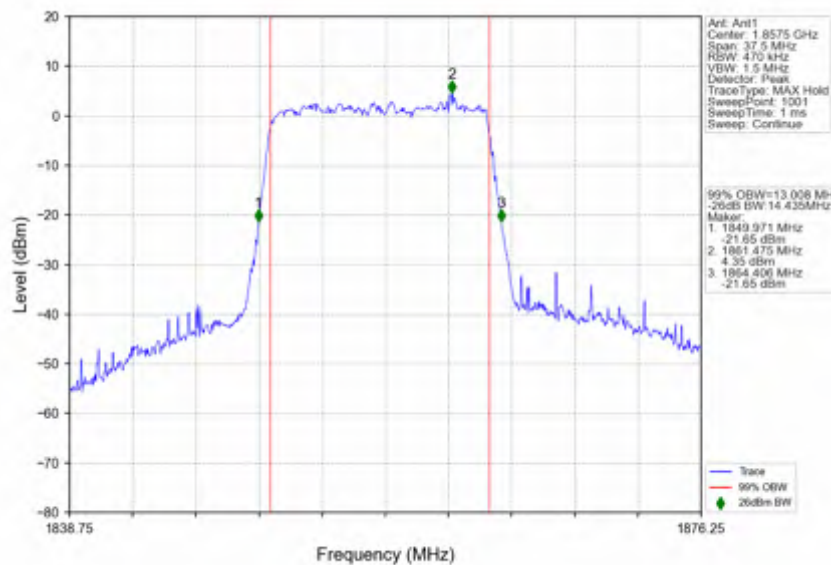


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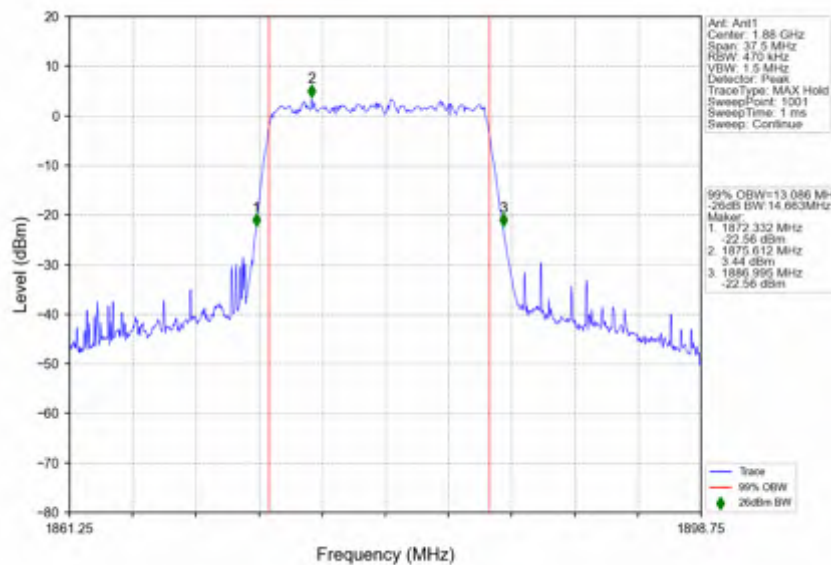
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n2\_30kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM 256 QAM\_1857.5MHz\_Outer\_Full



n2\_30kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM 256 QAM\_1880MHz\_Outer\_Full



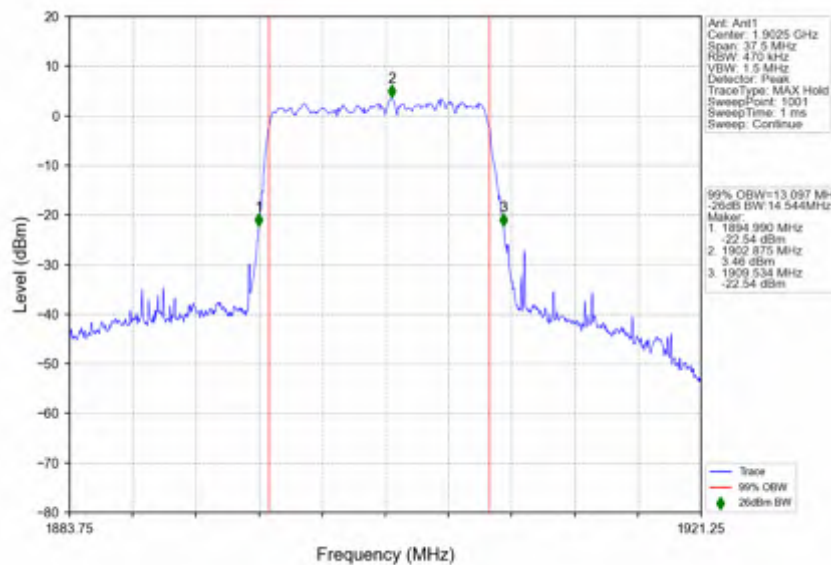
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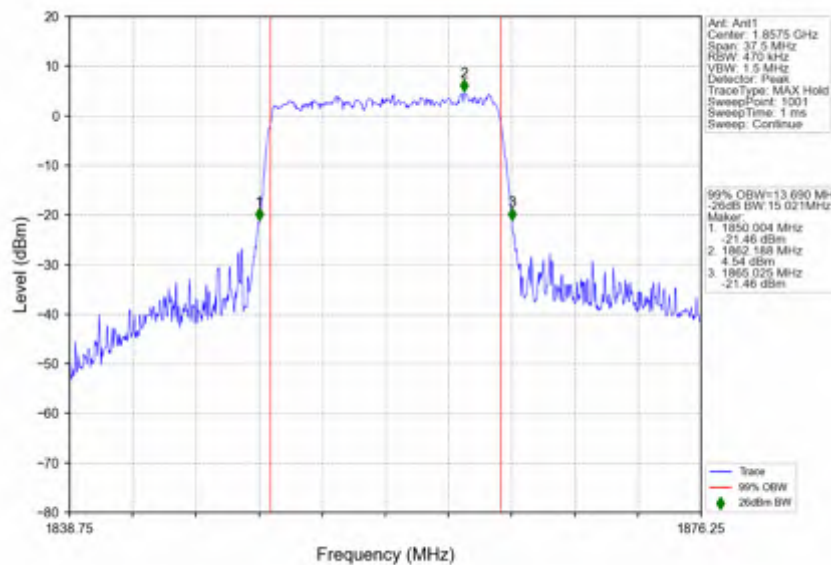
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n2\_30kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM 256 QAM\_1902.5MHz\_Outer\_Full



n2\_30kHz\_SISO\_NTNV\_15MHz\_CP-OFDM QPSK\_1857.5MHz\_Outer\_Full



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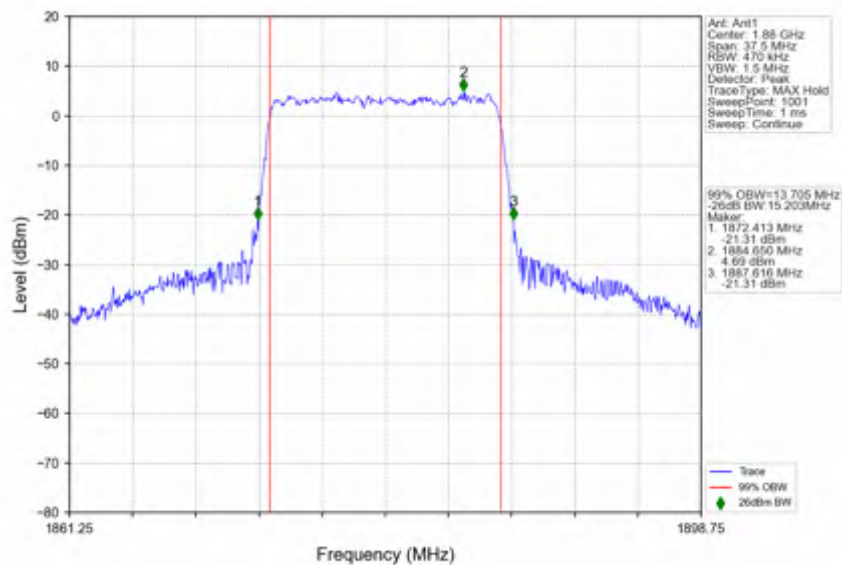
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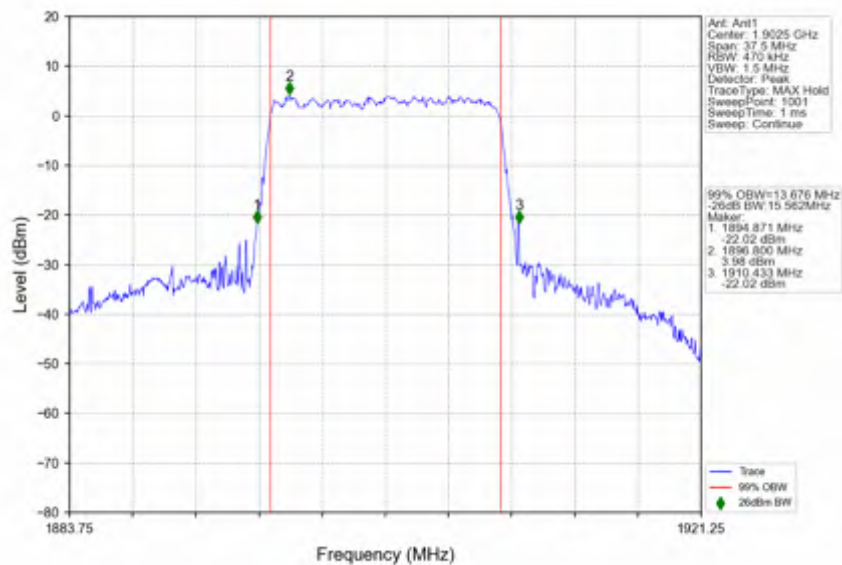
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n2\_30kHz\_SISO\_NTNV\_15MHz\_CP-OFDM\_QPSK\_1880MHz\_Outer\_Full



n2\_30kHz\_SISO\_NTNV\_15MHz\_CP-OFDM\_QPSK\_1902.5MHz\_Outer\_Full

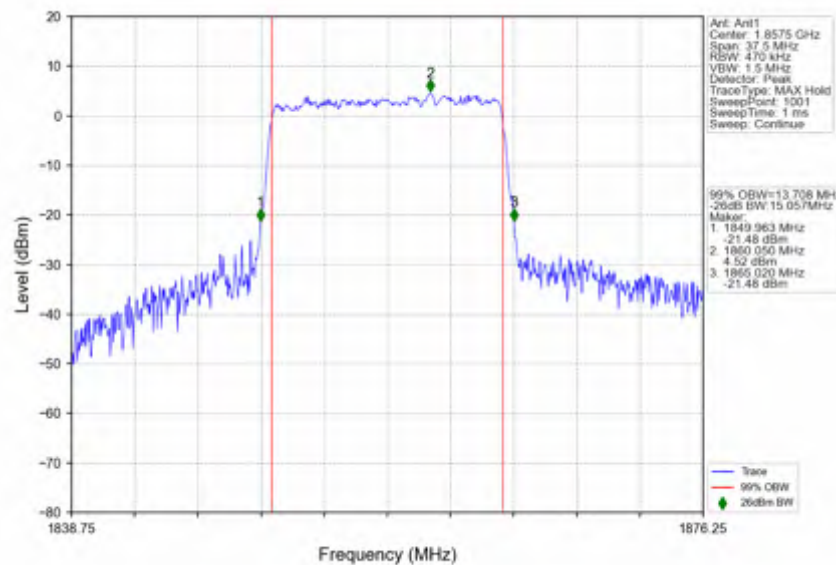


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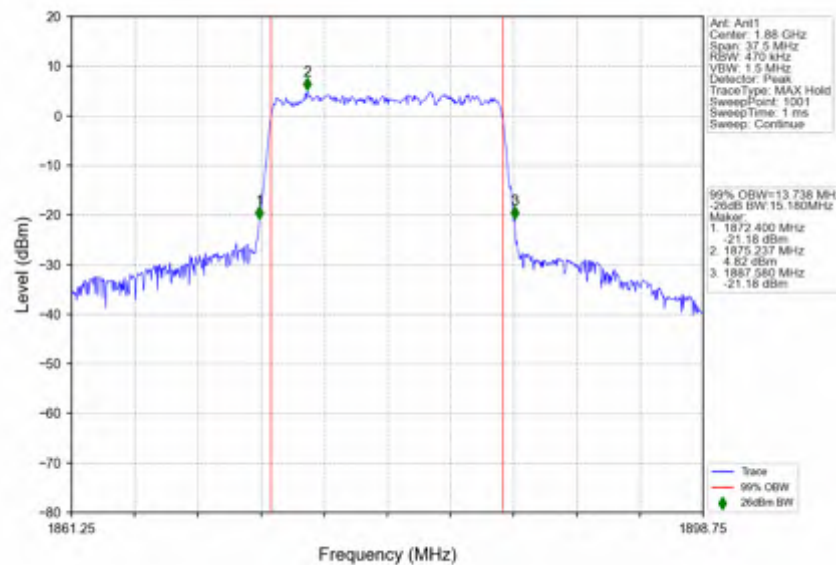
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n2\_30kHz\_SISO\_NTNV\_15MHz\_CP-OFDM\_16\_QAM\_1857.5MHz\_Outer\_Full



n2\_30kHz\_SISO\_NTNV\_15MHz\_CP-OFDM\_16\_QAM\_1880MHz\_Outer\_Full



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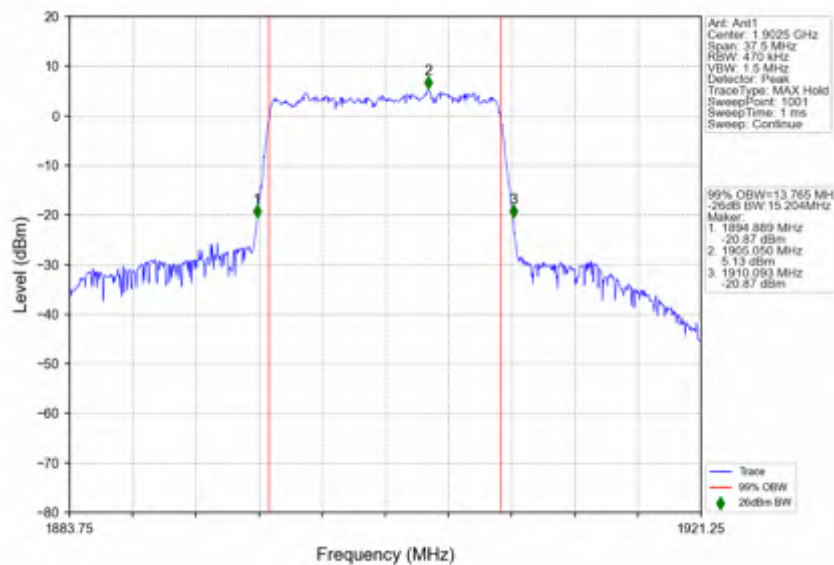
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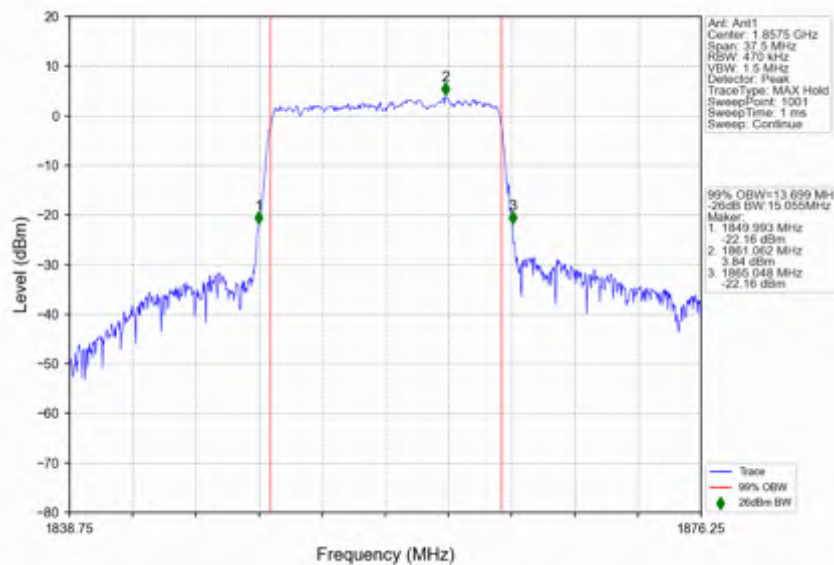
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n2\_30kHz\_SISO\_NTNV\_15MHz\_CP-OFDM\_16\_QAM\_1902.5MHz\_Outer\_Full



n2\_30kHz\_SISO\_NTNV\_15MHz\_CP-OFDM\_64\_QAM\_1857.5MHz\_Outer\_Full



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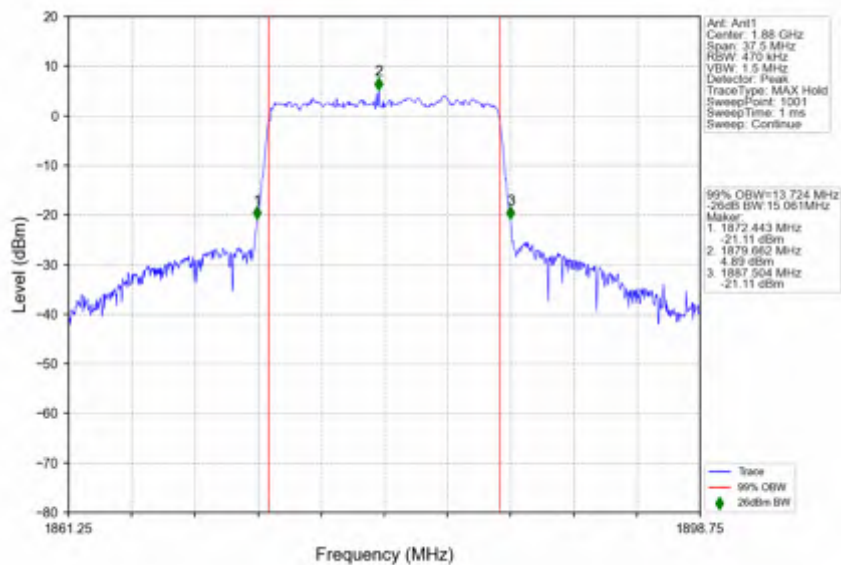
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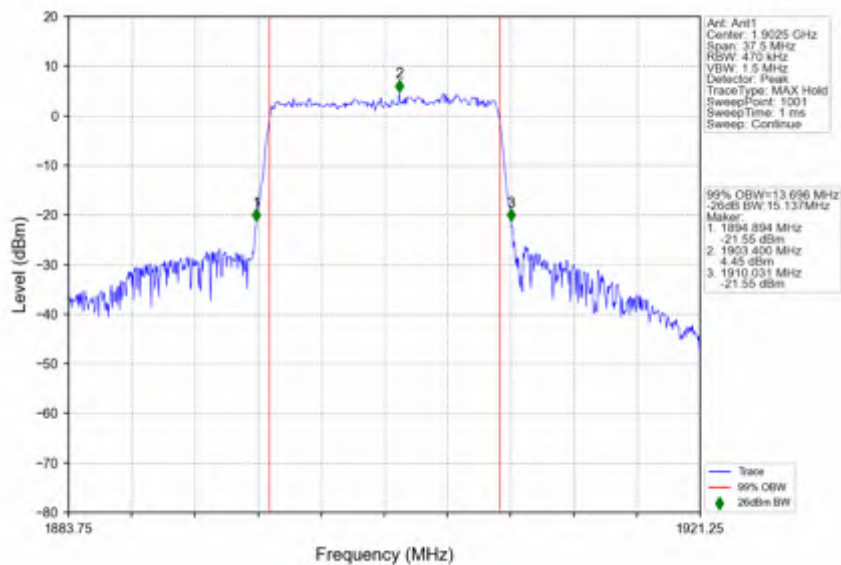
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n2\_30kHz\_SISO\_NTNV\_15MHz\_CP-OFDM 64 QAM\_1880MHz\_Outer\_Full



n2\_30kHz\_SISO\_NTNV\_15MHz\_CP-OFDM 64 QAM\_1902.5MHz\_Outer\_Full



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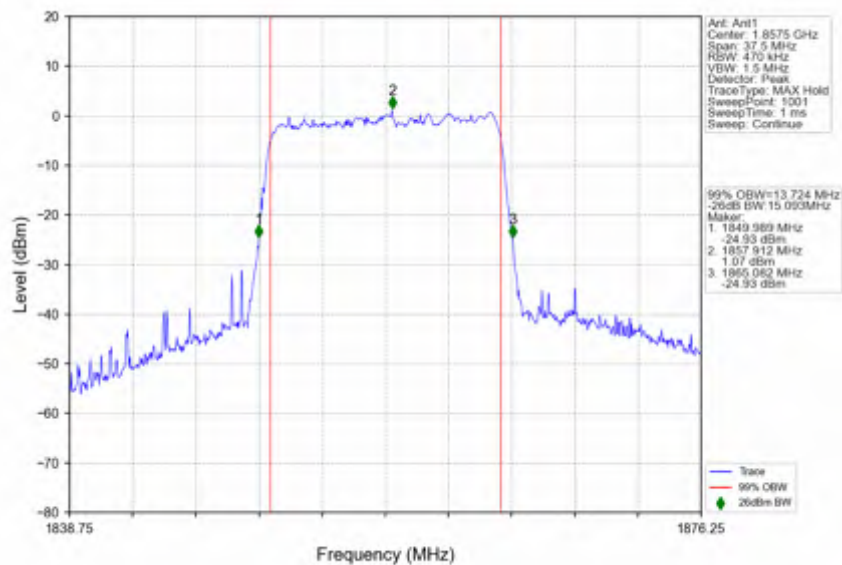
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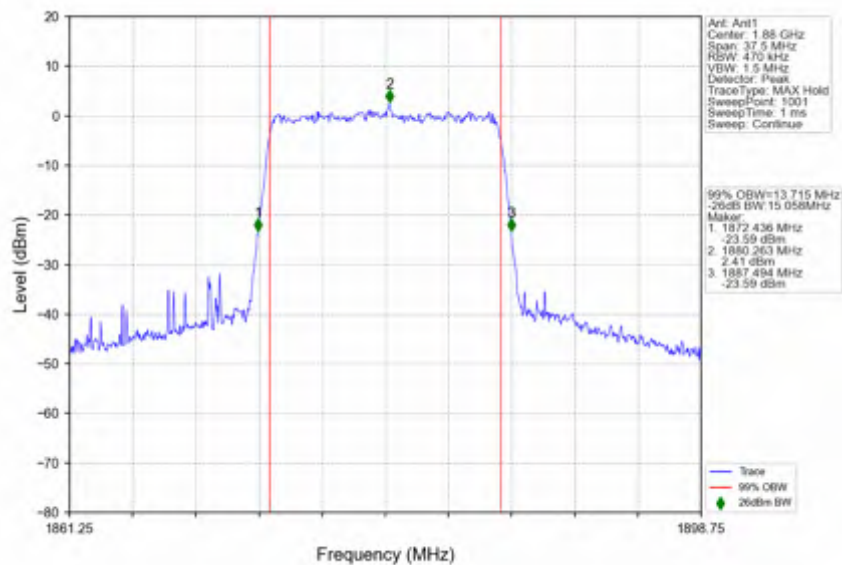
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n2 30kHz SISO NTV 15MHz CP-OFDM 256 QAM 1880MHz Outer Full



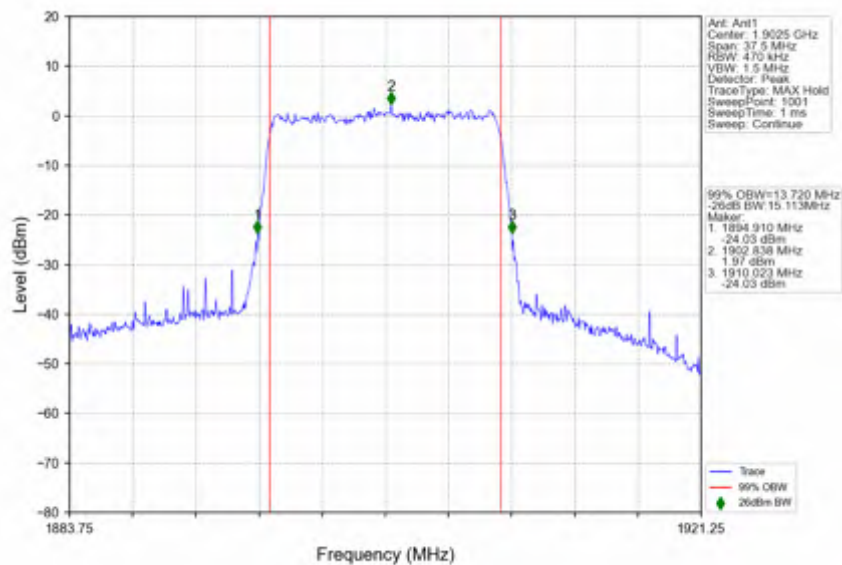
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n2\_30kHz\_SISO\_NTNV\_15MHz\_CP-OFDM 256 QAM\_1902.5MHz\_Outer\_Full



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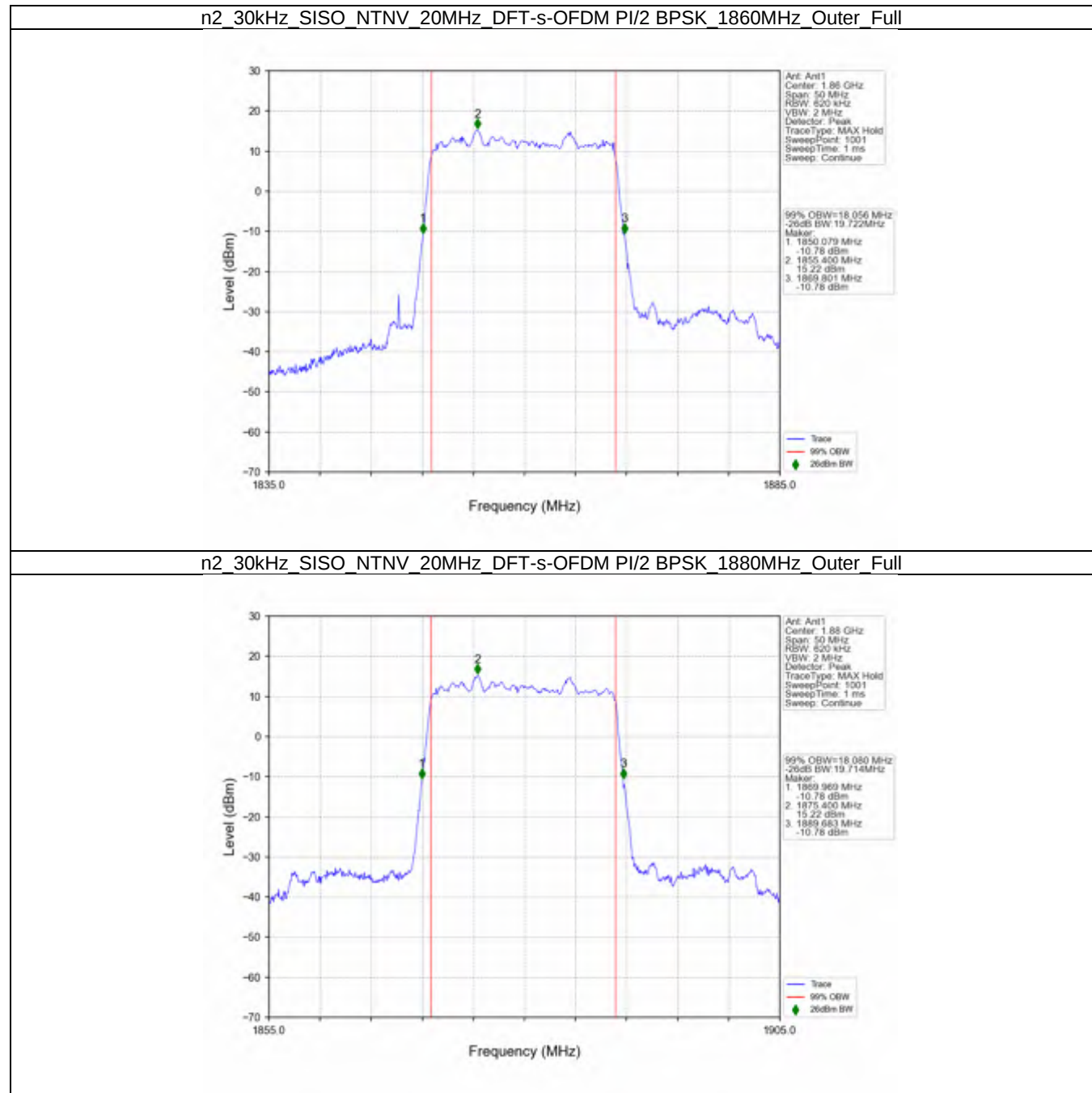
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## 1.7 30k\_SISO\_20MHz\_NTNV

### 1.7.1 Test Result

| 5G NR n2 SCS=30kHz SISO 20MHz NTN |                 |               |                     |                      |             |         |
|-----------------------------------|-----------------|---------------|---------------------|----------------------|-------------|---------|
| Modulation                        | Frequency (MHz) | RB Allocation | 99% Bandwidth (MHz) | 26dB Bandwidth (MHz) | Limit (MHz) | Verdict |
| DFT-s-OFDM PI/2 BPSK              | 1860            | Outer_Full    | 18.06               | 19.72                | /           | Pass    |
|                                   | 1880            | Outer_Full    | 18.08               | 19.71                | /           | Pass    |
|                                   | 1900            | Outer_Full    | 18.06               | 19.81                | /           | Pass    |
| DFT-s-OFDM QPSK                   | 1860            | Outer_Full    | 18.05               | 19.79                | /           | Pass    |
|                                   | 1880            | Outer_Full    | 18.05               | 19.75                | /           | Pass    |
|                                   | 1900            | Outer_Full    | 18.10               | 19.81                | /           | Pass    |
| DFT-s-OFDM 16 QAM                 | 1860            | Outer_Full    | 18.03               | 19.79                | /           | Pass    |
|                                   | 1880            | Outer_Full    | 18.05               | 19.87                | /           | Pass    |
|                                   | 1900            | Outer_Full    | 18.05               | 19.84                | /           | Pass    |
| DFT-s-OFDM 64 QAM                 | 1860            | Outer_Full    | 18.04               | 19.86                | /           | Pass    |
|                                   | 1880            | Outer_Full    | 18.03               | 19.60                | /           | Pass    |
|                                   | 1900            | Outer_Full    | 18.04               | 19.73                | /           | Pass    |
| DFT-s-OFDM 256 QAM                | 1860            | Outer_Full    | 18.02               | 19.81                | /           | Pass    |
|                                   | 1880            | Outer_Full    | 18.07               | 19.98                | /           | Pass    |
|                                   | 1900            | Outer_Full    | 18.12               | 19.86                | /           | Pass    |
| CP-OFDM QPSK                      | 1860            | Outer_Full    | 18.31               | 20.13                | /           | Pass    |
|                                   | 1880            | Outer_Full    | 18.31               | 20.14                | /           | Pass    |
|                                   | 1900            | Outer_Full    | 18.37               | 20.17                | /           | Pass    |
| CP-OFDM 16 QAM                    | 1860            | Outer_Full    | 18.35               | 20.01                | /           | Pass    |
|                                   | 1880            | Outer_Full    | 18.35               | 20.29                | /           | Pass    |
|                                   | 1900            | Outer_Full    | 18.41               | 20.23                | /           | Pass    |
| CP-OFDM 64 QAM                    | 1860            | Outer_Full    | 18.30               | 20.18                | /           | Pass    |
|                                   | 1880            | Outer_Full    | 18.35               | 20.08                | /           | Pass    |
|                                   | 1900            | Outer_Full    | 18.37               | 20.12                | /           | Pass    |
| CP-OFDM 256 QAM                   | 1860            | Outer_Full    | 18.36               | 20.17                | /           | Pass    |
|                                   | 1880            | Outer_Full    | 18.43               | 20.37                | /           | Pass    |
|                                   | 1900            | Outer_Full    | 18.41               | 20.06                | /           | Pass    |

### 1.7.2 Test Graph



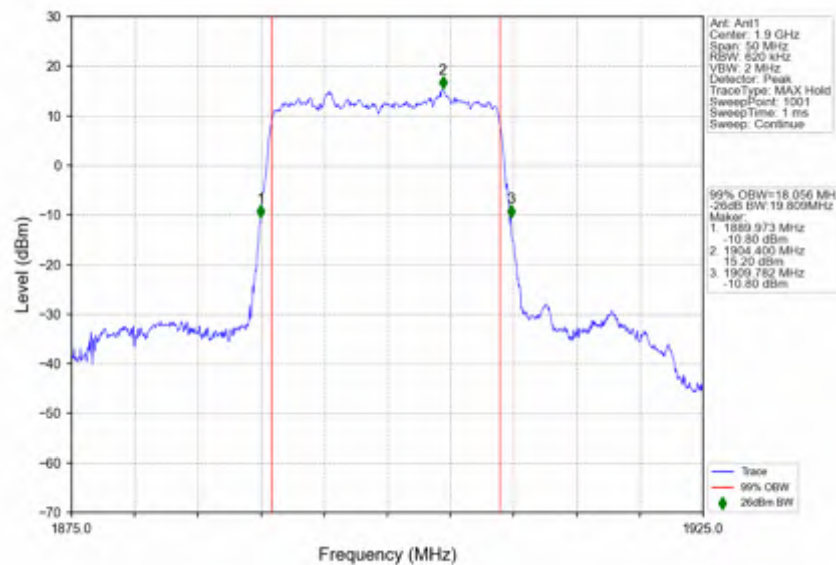
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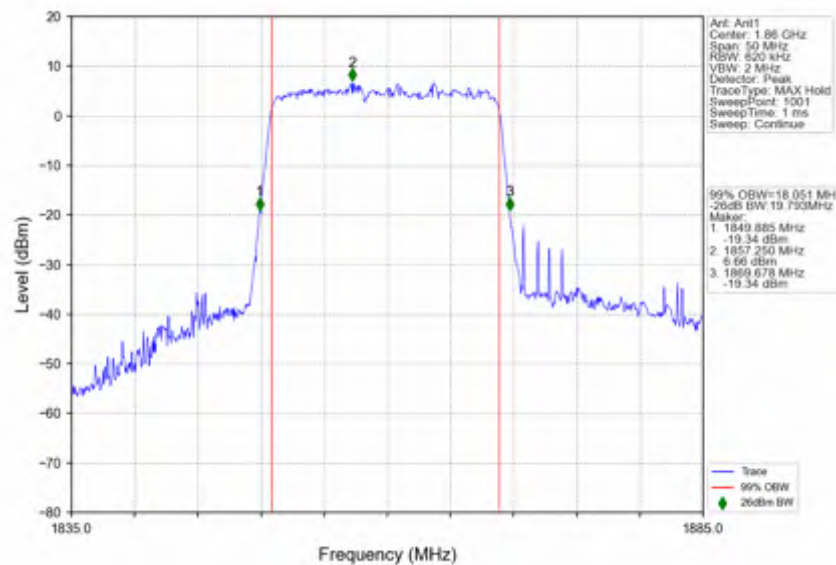
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n2\_30kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM PI/2 BPSK\_1900MHz\_Outer\_Full



n2\_30kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM QPSK\_1860MHz\_Outer\_Full



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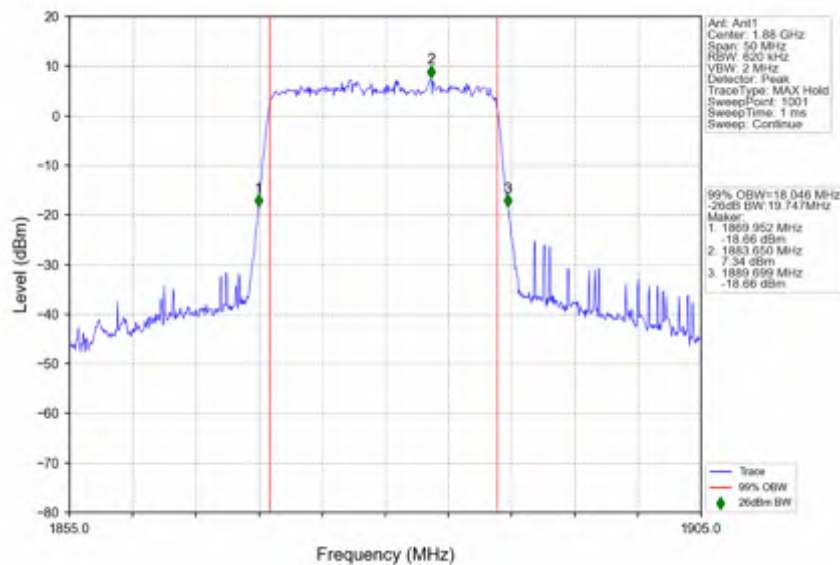
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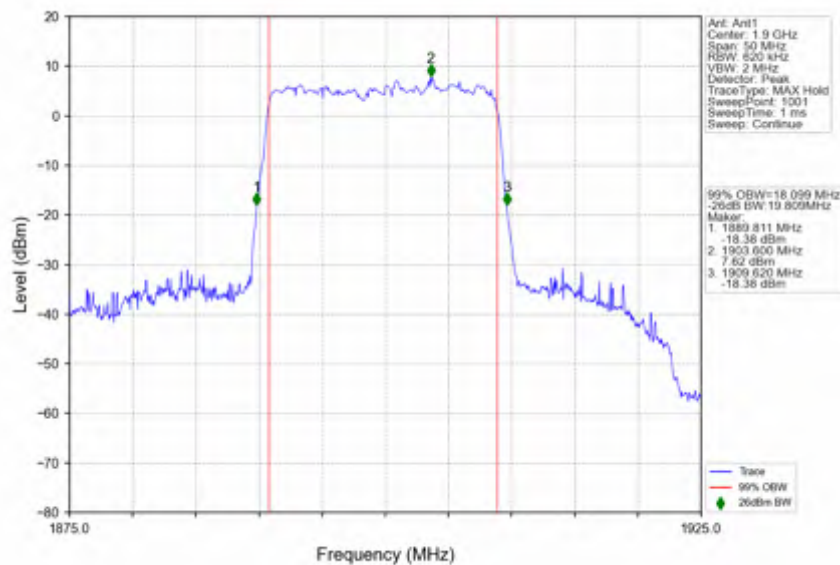
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n2 30kHz SISO NTNv 20MHz DFT-s-OFDM QPSK 1880MHz Outer Full



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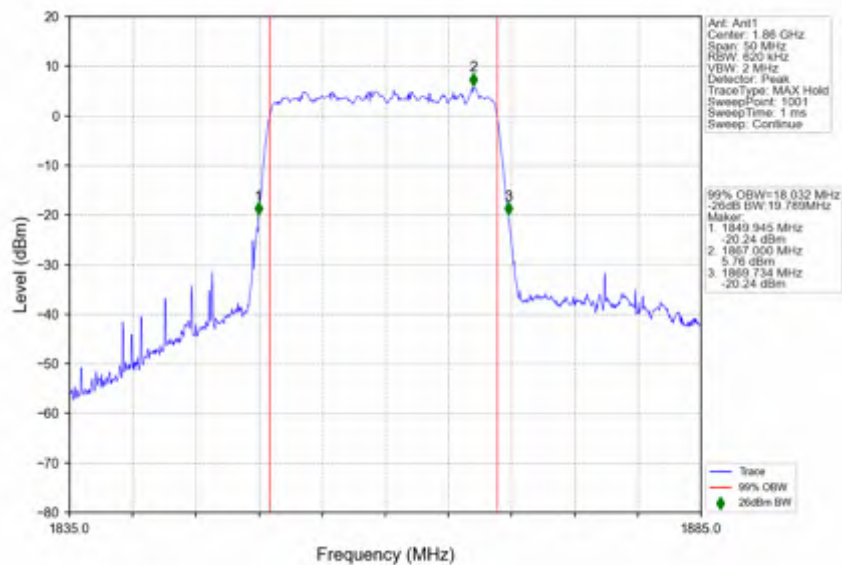


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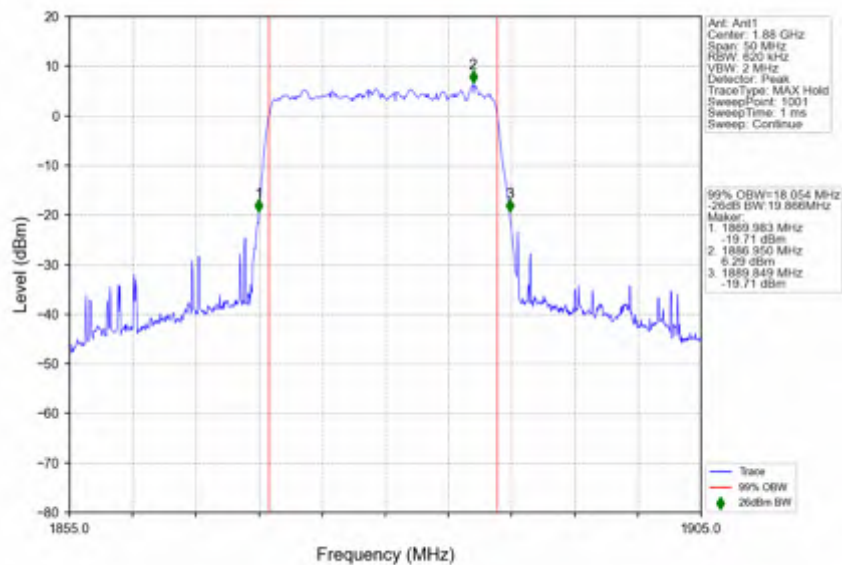
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n2 30kHz SISO NTNv 20MHz DFT-s-OFDM 16 QAM 1860MHz Outer Full



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|----|-------|------|------|-------|------------|--------|---------|-------|------|
| n2 | 30kHz | SISO | NTNV | 20MHz | DFT-s-OFDM | 16 QAM | 1880MHz | Outer | Full |
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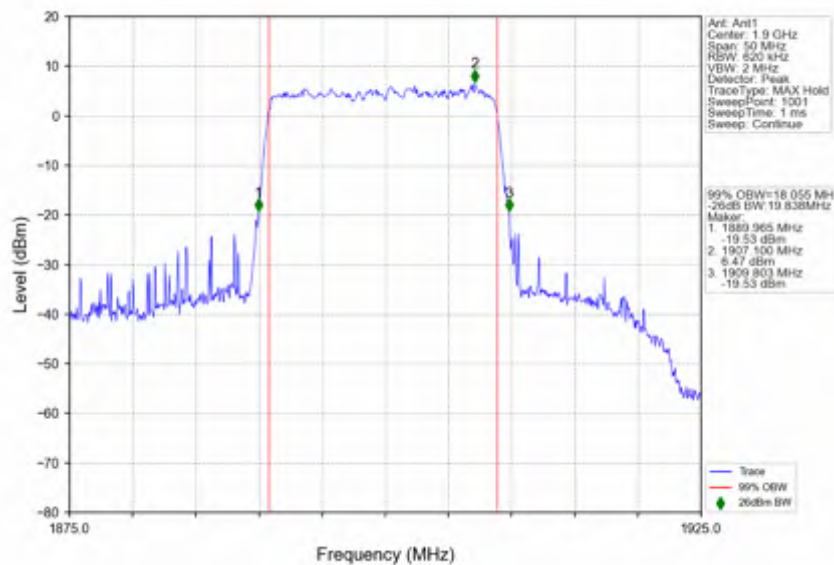


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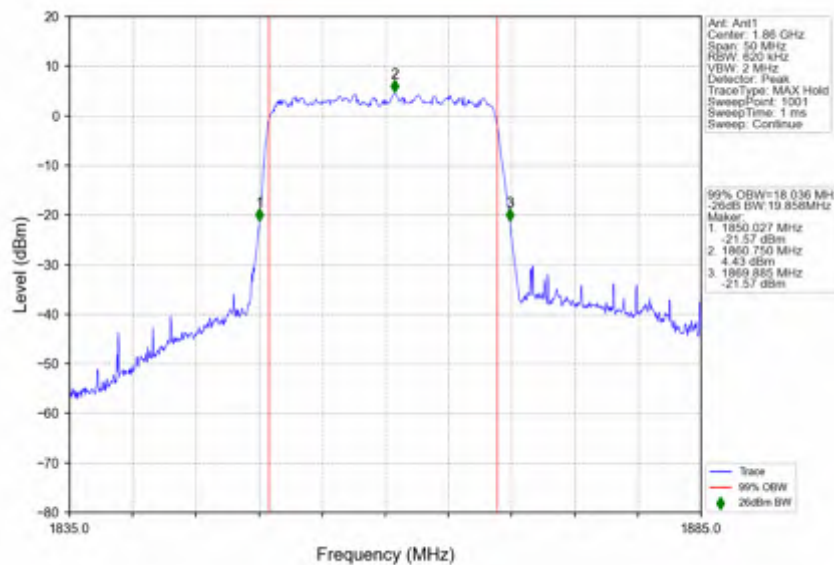
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n2 30kHz SISO NTNv 20MHz DFT-s-OFDM 16 QAM 1900MHz Outer Full



|    |       |      |      |       |            |        |         |       |      |
|----|-------|------|------|-------|------------|--------|---------|-------|------|
| n2 | 30kHz | SISO | NTNV | 20MHz | DFT-s-OFDM | 64 QAM | 1860MHz | Outer | Full |
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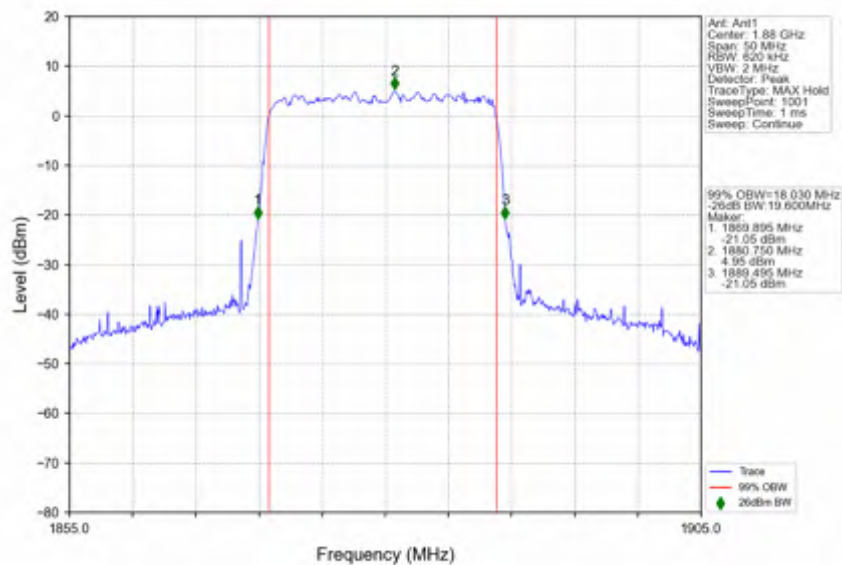


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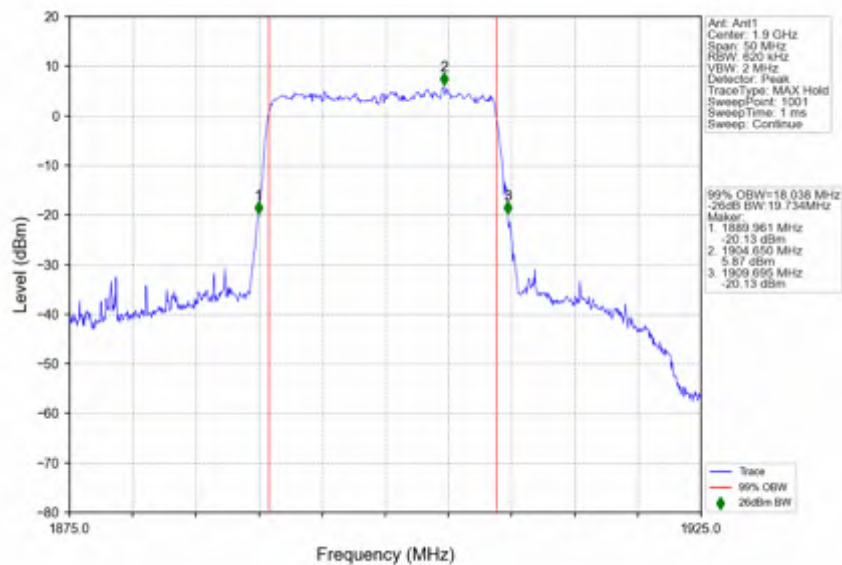
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n2 30kHz SISO NTNv 20MHz DFT-s-OFDM 64 QAM 1880MHz Outer Full



|    |       |      |      |       |            |        |         |       |      |
|----|-------|------|------|-------|------------|--------|---------|-------|------|
| n2 | 30kHz | SISO | NTNV | 20MHz | DFT-s-OFDM | 64 QAM | 1900MHz | Outer | Full |
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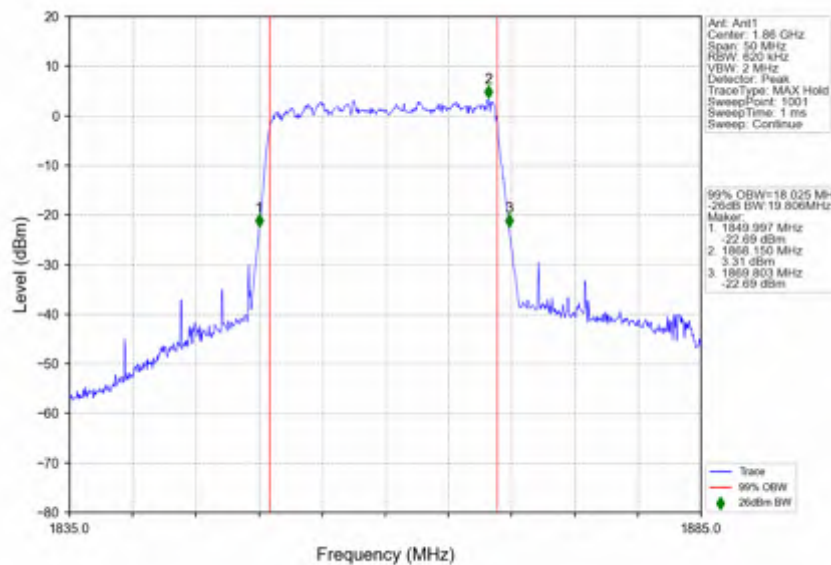


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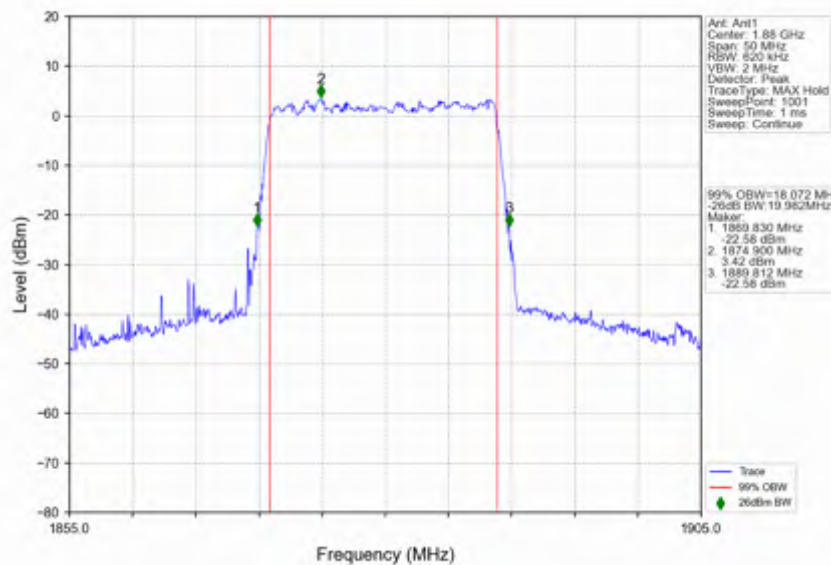
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n2\_30kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM\_256\_QAM\_1860MHz\_Outer\_Full



n2\_30kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM\_256\_QAM\_1880MHz\_Outer\_Full



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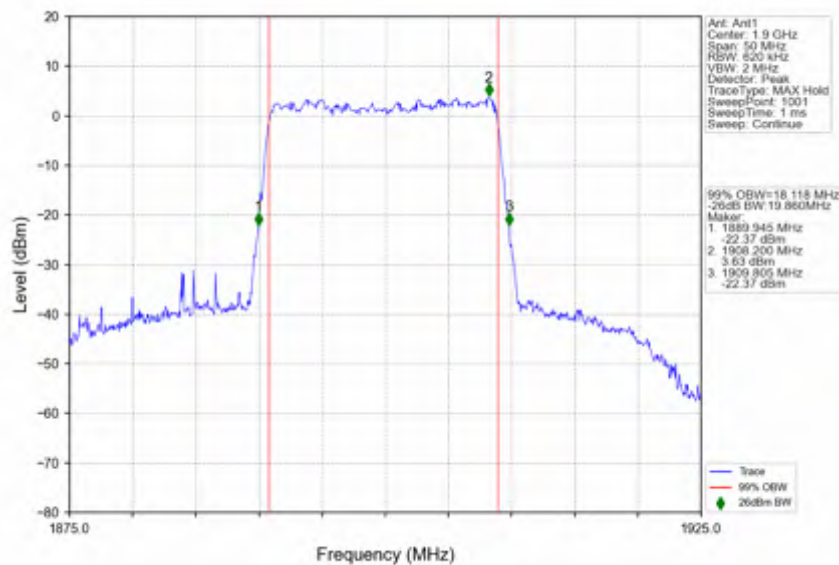
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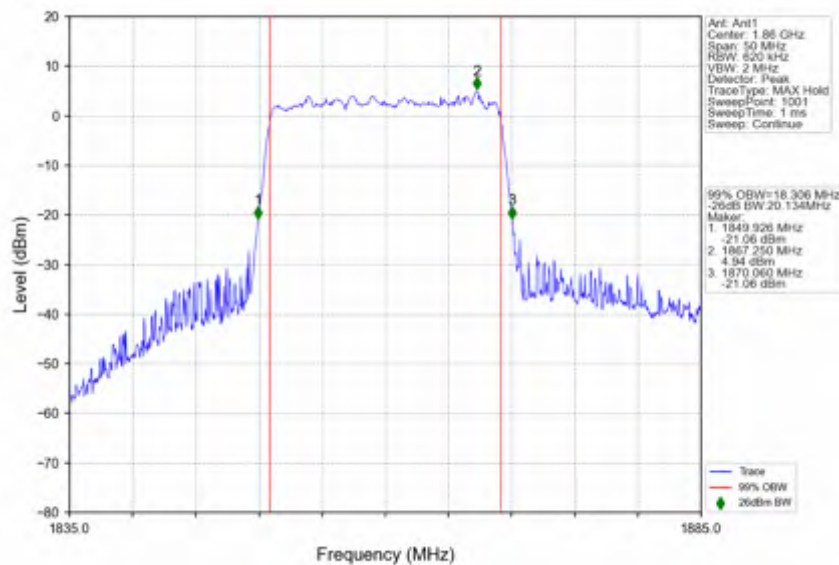
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n2 30kHz SISO NTV 20MHz CP-OFDM QPSK 1860MHz Outer Full

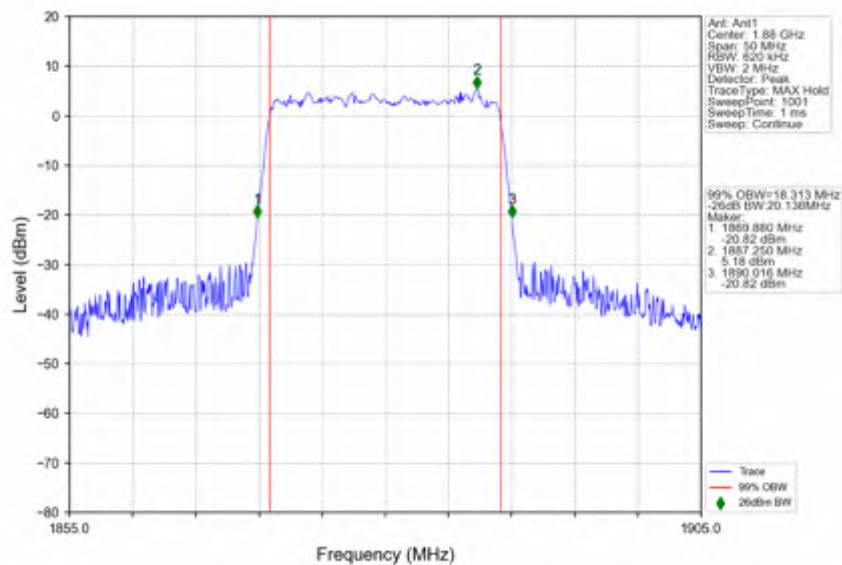


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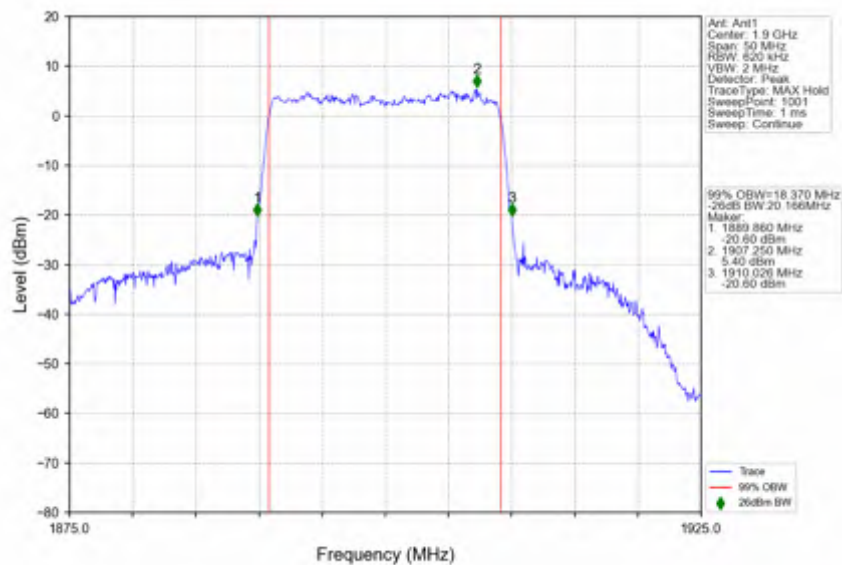
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n2\_30kHz\_SISO\_NTV\_20MHz\_CP-OFDM\_QPSK\_1880MHz\_Outer\_Full



|    |       |      |      |       |         |      |         |       |      |
|----|-------|------|------|-------|---------|------|---------|-------|------|
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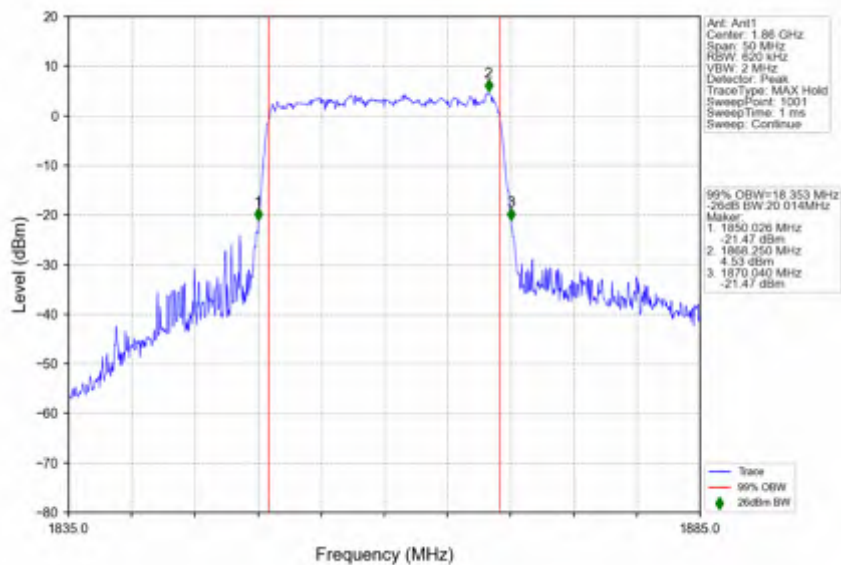


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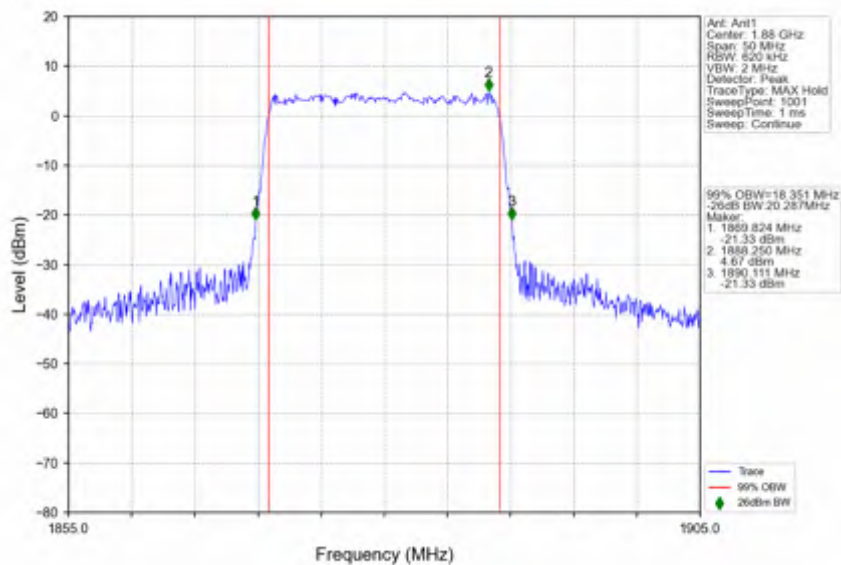
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n2 30kHz SISO NTN 20MHz CP-OFDM 16 QAM 1880MHz Outer Full

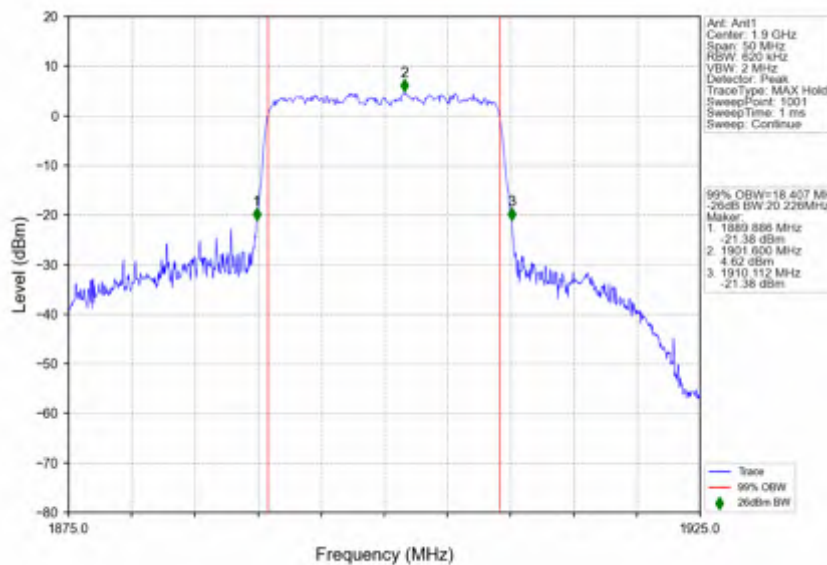


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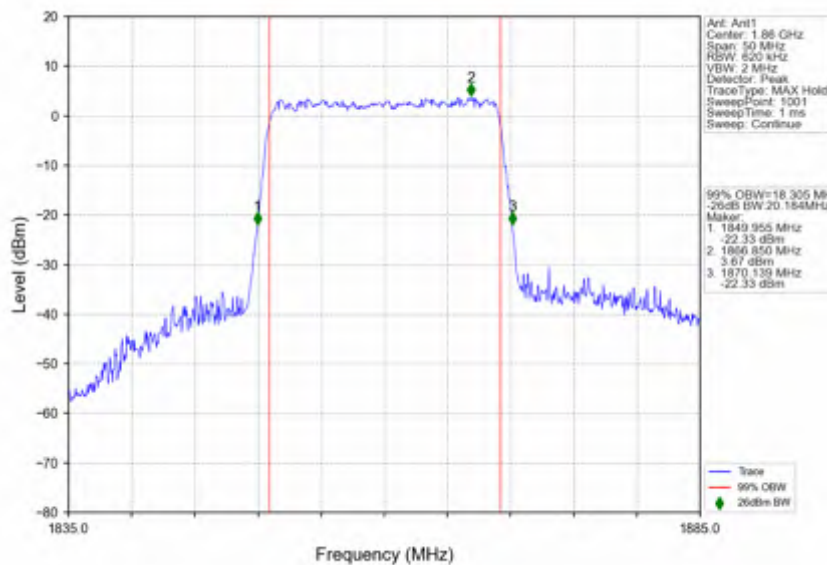
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n2\_30kHz\_SISO\_NTNV\_20MHz\_CP-OFDM 64 QAM\_1860MHz\_Outer\_Full



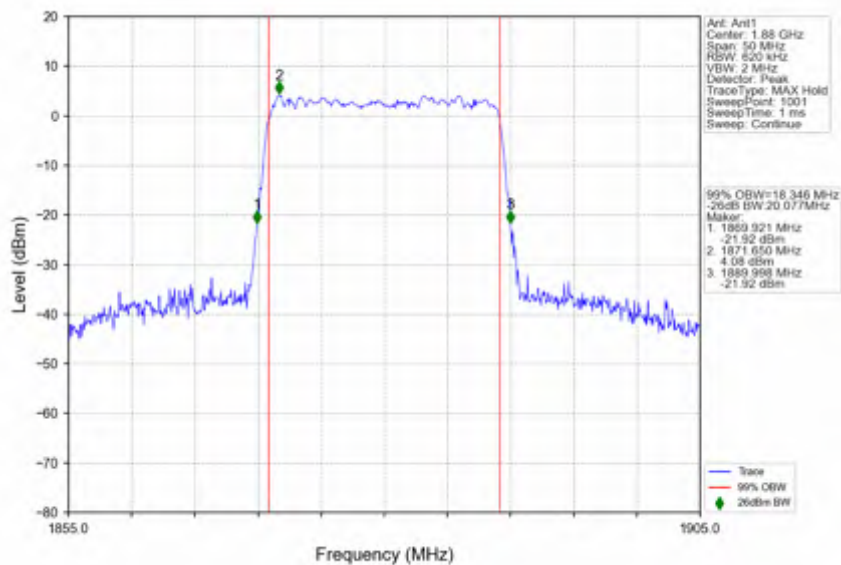
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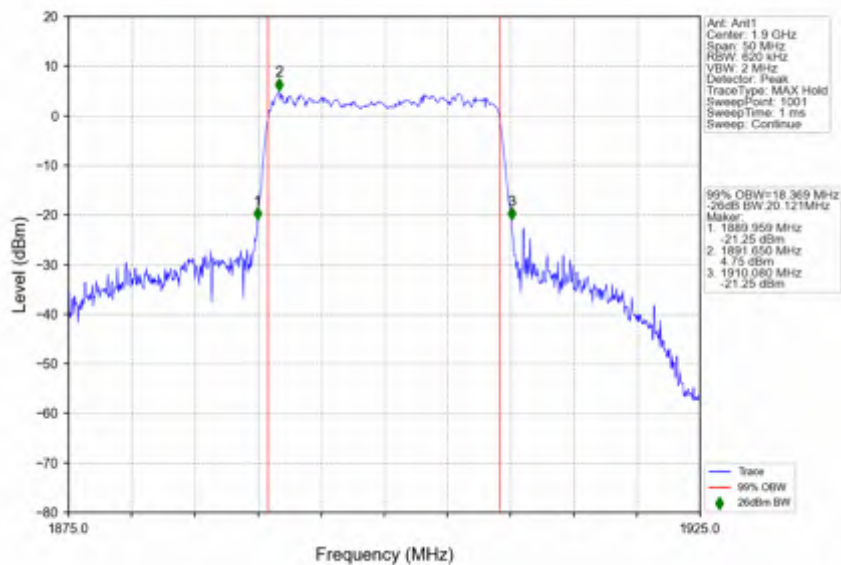
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n2\_30kHz\_SISO\_NTNV\_20MHz\_CP-OFDM 64 QAM\_1880MHz\_Outer\_Full



n2\_30kHz\_SISO\_NTNV\_20MHz\_CP-OFDM 64 QAM\_1900MHz\_Outer\_Full



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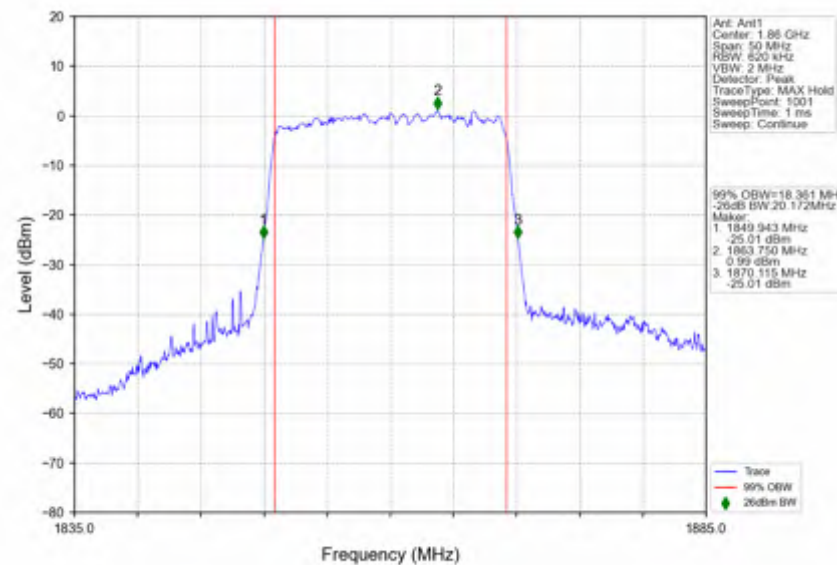
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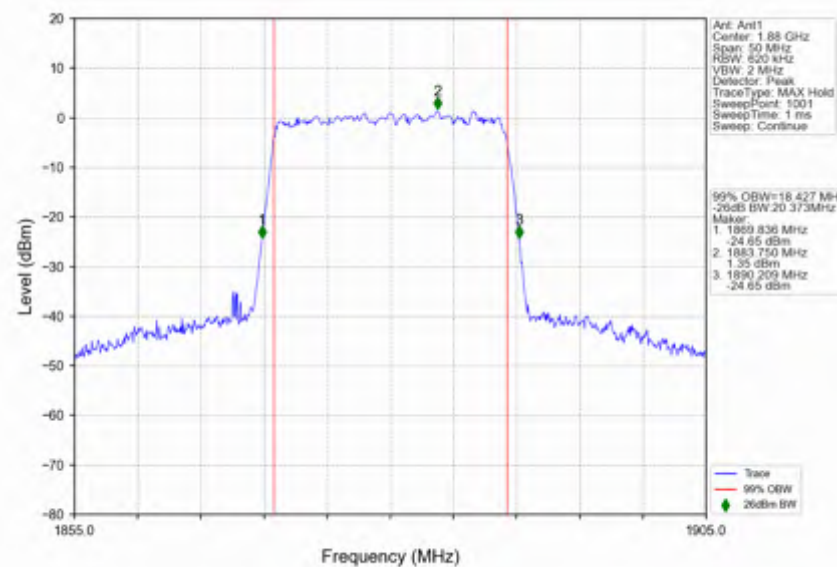
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n2\_30kHz\_SISO\_NTNV\_20MHz\_CP-OFDM\_256\_QAM\_1860MHz\_Outer\_Full



n2\_30kHz\_SISO\_NTNV\_20MHz\_CP-OFDM\_256\_QAM\_1880MHz\_Outer\_Full



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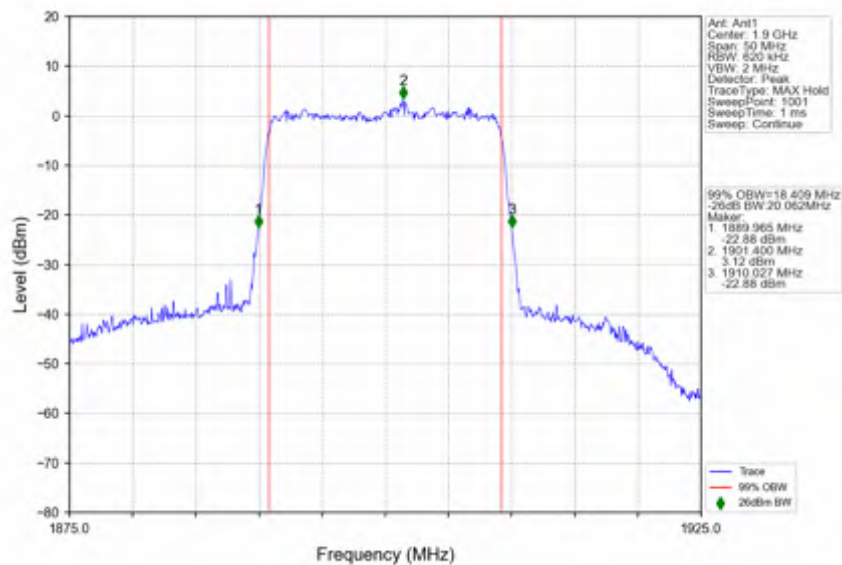
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## 2. 99% & 26dB Bandwidth

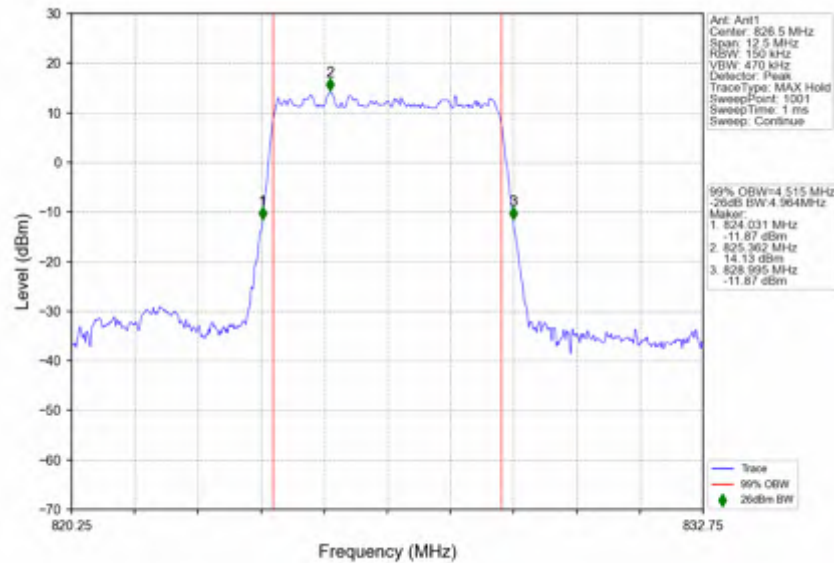
### 2.1 n5 15k\_SISO\_5MHz\_NTNV

#### 2.1.1 Test Result

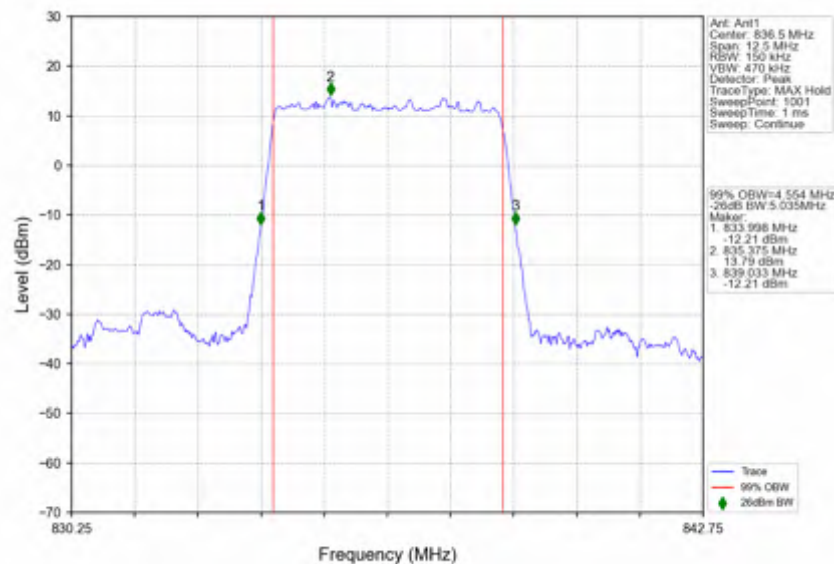
| 5G NR n5 SCS=15kHz SISO 5MHz NTN |                 |               |                     |                      |             |         |
|----------------------------------|-----------------|---------------|---------------------|----------------------|-------------|---------|
| Modulation                       | Frequency (MHz) | RB Allocation | 99% Bandwidth (MHz) | 26dB Bandwidth (MHz) | Limit (MHz) | Verdict |
| DFT-s-OFDM PI/2 BPSK             | 826.5           | Outer_Full    | 4.51                | 4.96                 | /           | Pass    |
|                                  | 836.5           | Outer_Full    | 4.55                | 5.04                 | /           | Pass    |
|                                  | 846.5           | Outer_Full    | 4.54                | 5.04                 | /           | Pass    |
| DFT-s-OFDM QPSK                  | 826.5           | Outer_Full    | 4.51                | 5.01                 | /           | Pass    |
|                                  | 836.5           | Outer_Full    | 4.51                | 4.96                 | /           | Pass    |
|                                  | 846.5           | Outer_Full    | 4.51                | 5.03                 | /           | Pass    |
| DFT-s-OFDM 16 QAM                | 826.5           | Outer_Full    | 4.54                | 5.03                 | /           | Pass    |
|                                  | 836.5           | Outer_Full    | 4.52                | 5.03                 | /           | Pass    |
|                                  | 846.5           | Outer_Full    | 4.53                | 5.02                 | /           | Pass    |
| DFT-s-OFDM 64 QAM                | 826.5           | Outer_Full    | 4.52                | 4.99                 | /           | Pass    |
|                                  | 836.5           | Outer_Full    | 4.54                | 5.06                 | /           | Pass    |
|                                  | 846.5           | Outer_Full    | 4.53                | 4.98                 | /           | Pass    |
| DFT-s-OFDM 256 QAM               | 826.5           | Outer_Full    | 4.52                | 4.99                 | /           | Pass    |
|                                  | 836.5           | Outer_Full    | 4.53                | 5.00                 | /           | Pass    |
|                                  | 846.5           | Outer_Full    | 4.51                | 4.99                 | /           | Pass    |
| CP-OFDM QPSK                     | 826.5           | Outer_Full    | 4.50                | 5.04                 | /           | Pass    |
|                                  | 836.5           | Outer_Full    | 4.50                | 4.96                 | /           | Pass    |
|                                  | 846.5           | Outer_Full    | 4.50                | 5.05                 | /           | Pass    |
| CP-OFDM 16 QAM                   | 826.5           | Outer_Full    | 4.52                | 5.05                 | /           | Pass    |
|                                  | 836.5           | Outer_Full    | 4.52                | 5.01                 | /           | Pass    |
|                                  | 846.5           | Outer_Full    | 4.53                | 5.04                 | /           | Pass    |
| CP-OFDM 64 QAM                   | 826.5           | Outer_Full    | 4.51                | 5.03                 | /           | Pass    |
|                                  | 836.5           | Outer_Full    | 4.52                | 5.04                 | /           | Pass    |
|                                  | 846.5           | Outer_Full    | 4.52                | 5.03                 | /           | Pass    |
| CP-OFDM 256 QAM                  | 826.5           | Outer_Full    | 4.50                | 5.04                 | /           | Pass    |
|                                  | 836.5           | Outer_Full    | 4.50                | 5.06                 | /           | Pass    |
|                                  | 846.5           | Outer_Full    | 4.51                | 5.05                 | /           | Pass    |

## 2.1.2 Test Graph

n5\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM\_PI/2\_BPSK\_826.5MHz\_Outer\_Full



n5\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM\_PI/2\_BPSK\_836.5MHz\_Outer\_Full

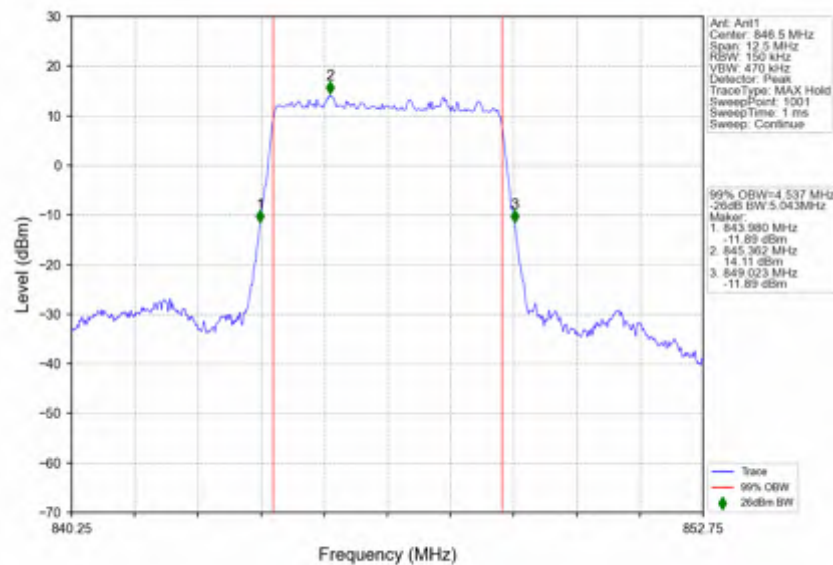


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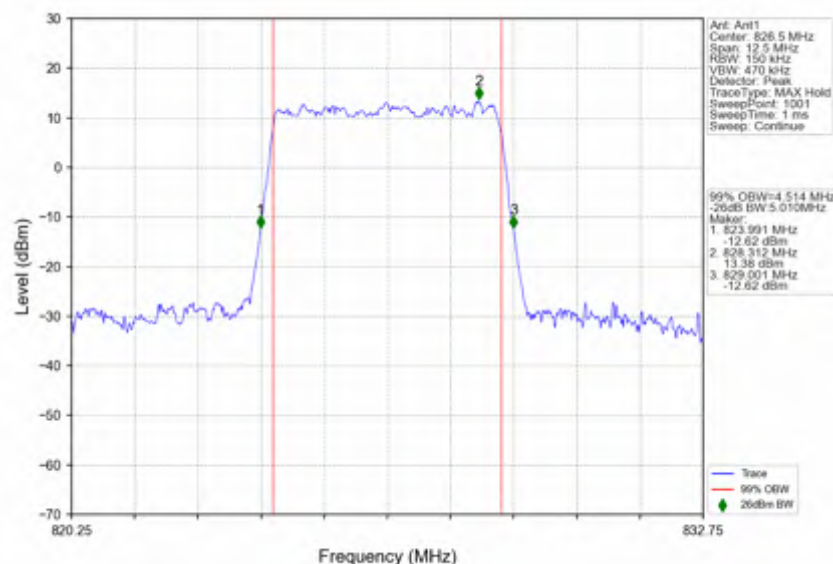
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n5\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM PI/2 BPSK\_846.5MHz\_Outer\_Full



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



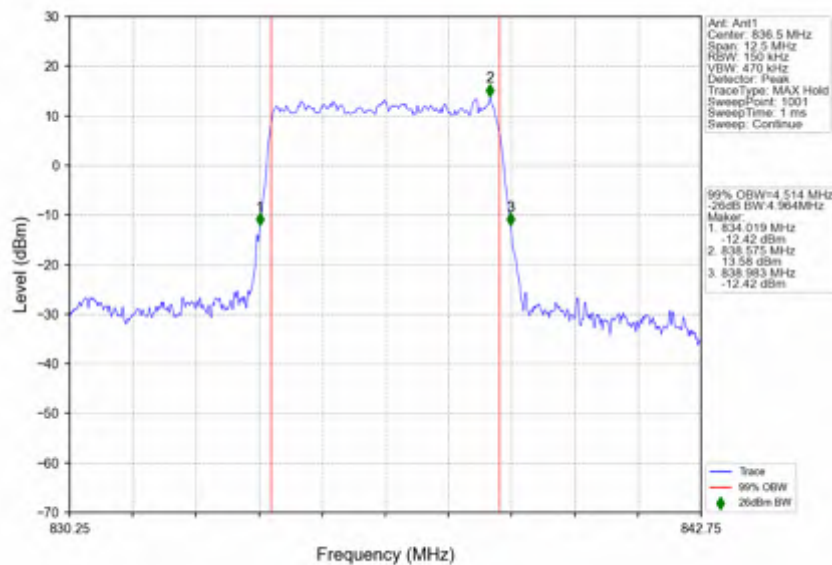
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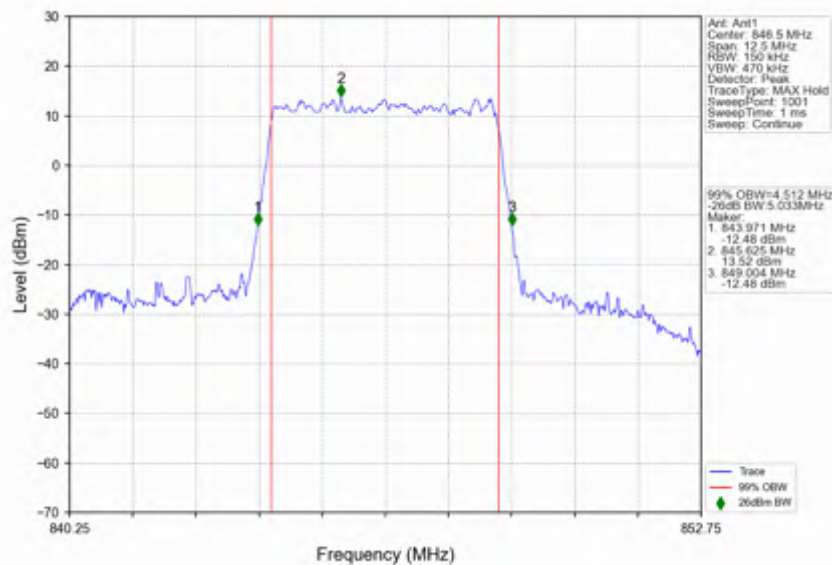
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n5\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM QPSK\_836.5MHz\_Outer\_Full



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



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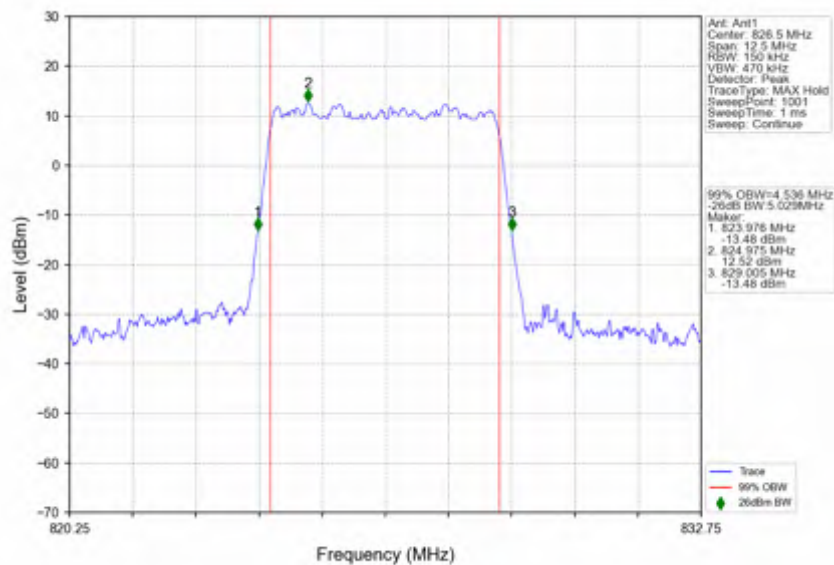
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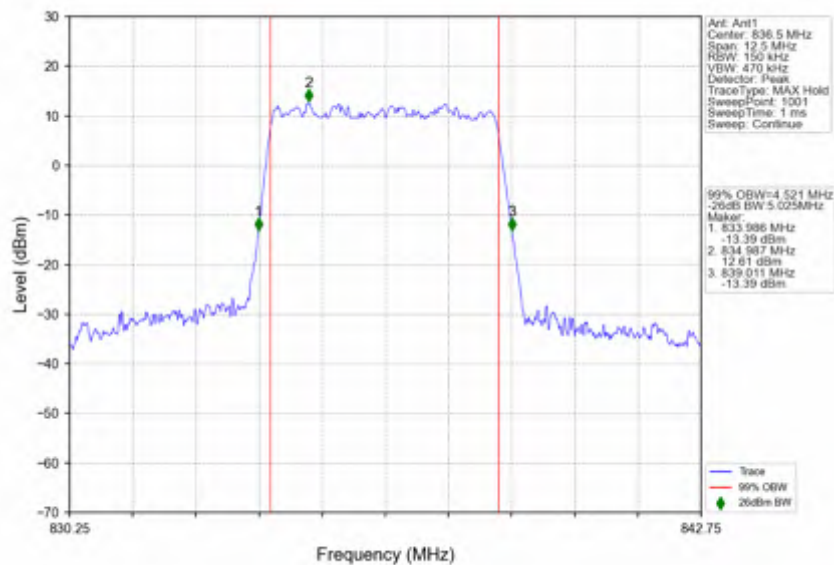
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n5\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM\_16\_QAM\_836.5MHz\_Outer\_Full



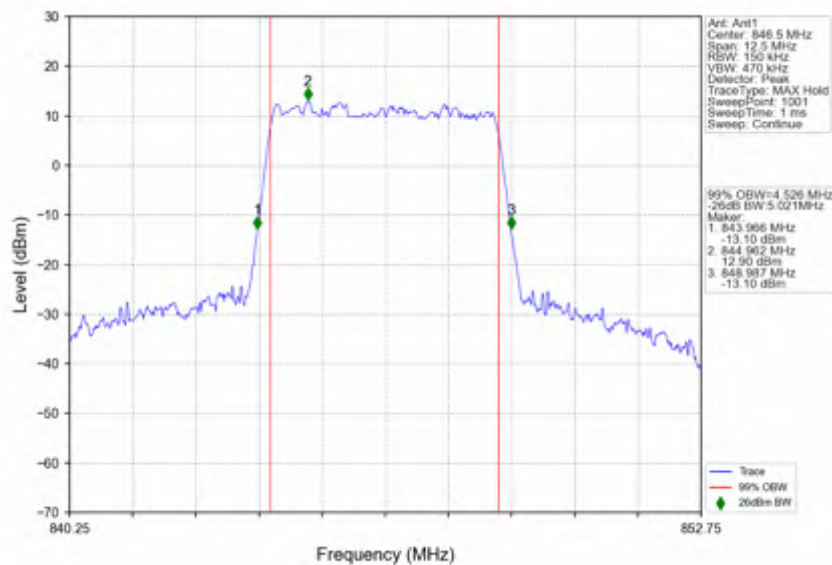
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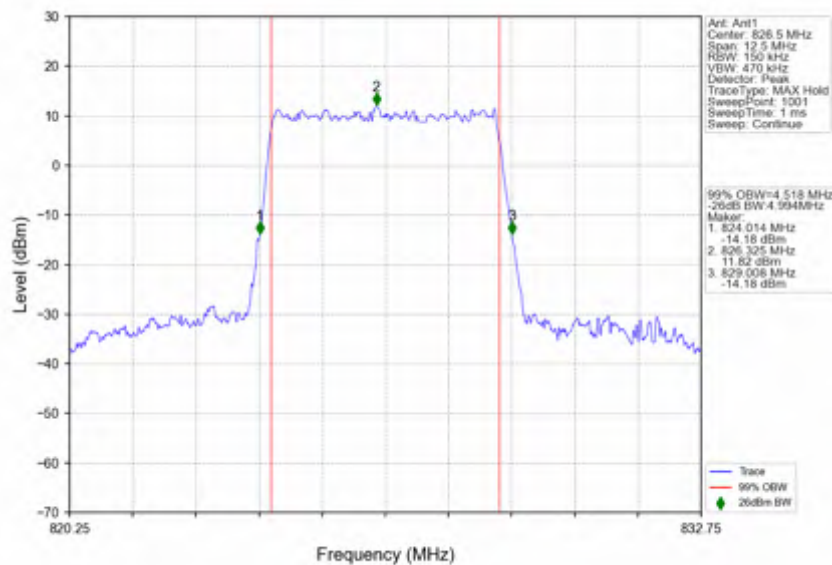
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n5\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM\_16\_QAM\_846.5MHz\_Outer\_Full



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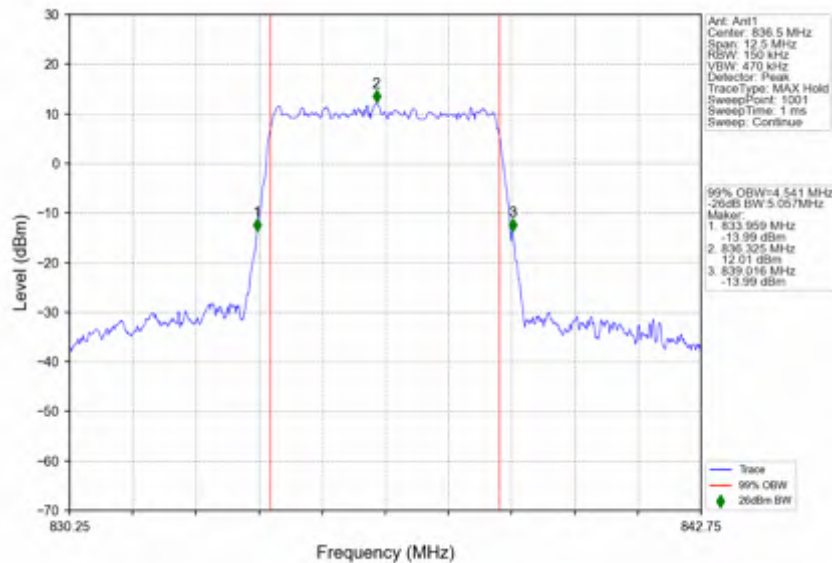
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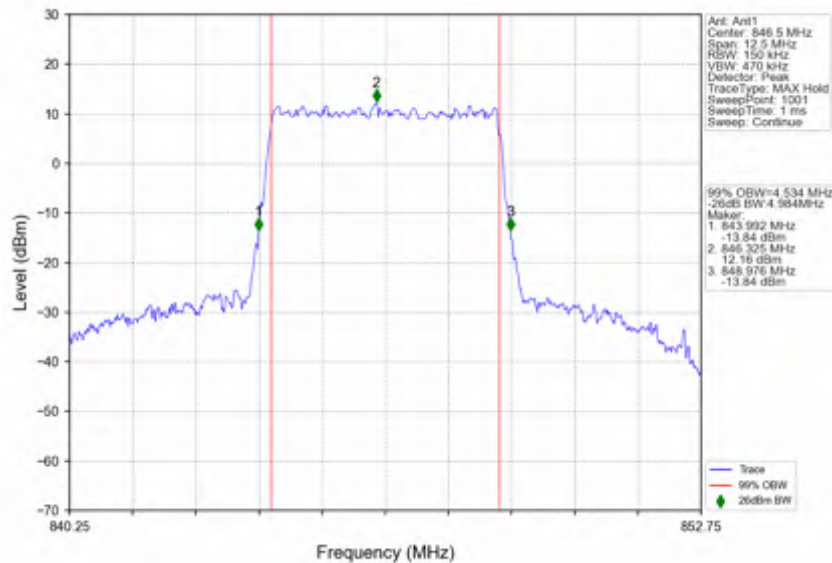
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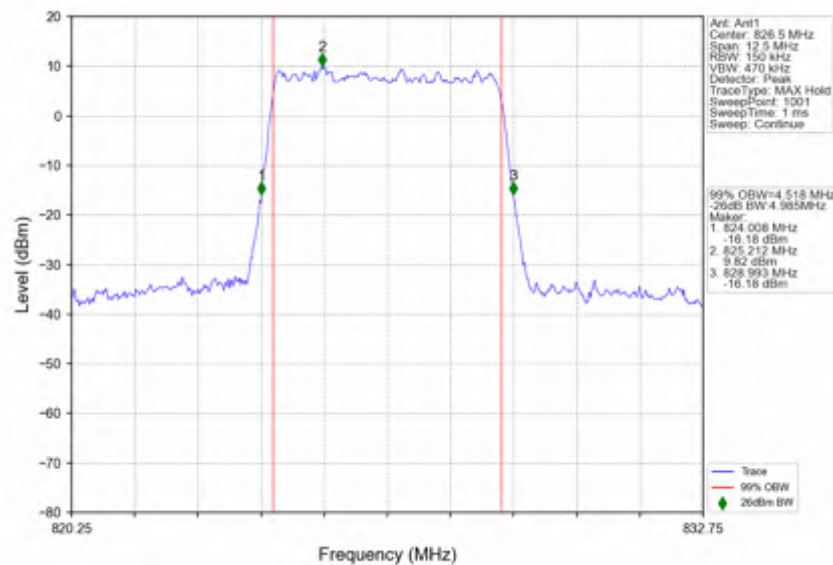
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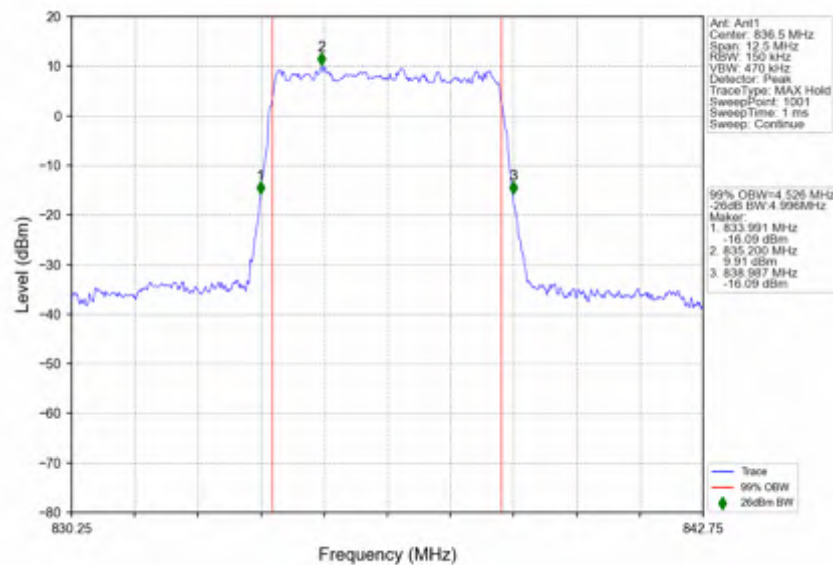
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n5\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM 256 QAM 836.5MHz\_Outer\_Full



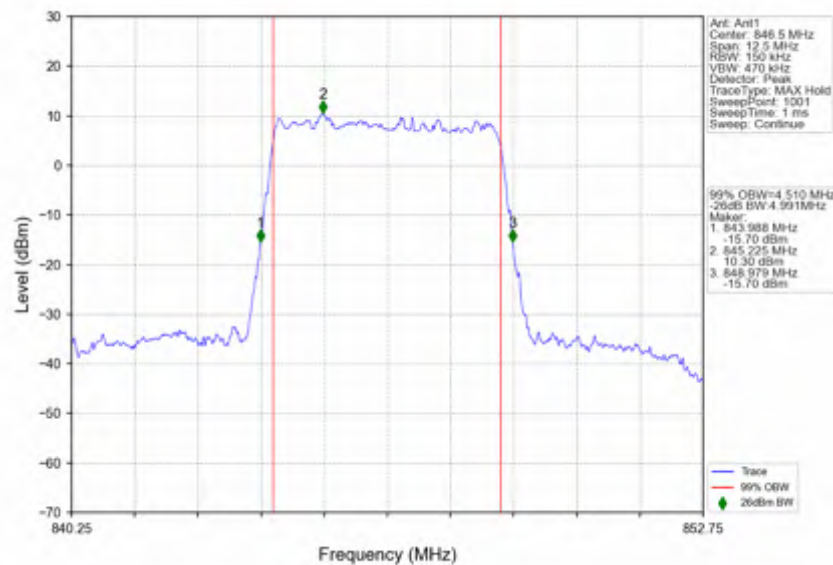
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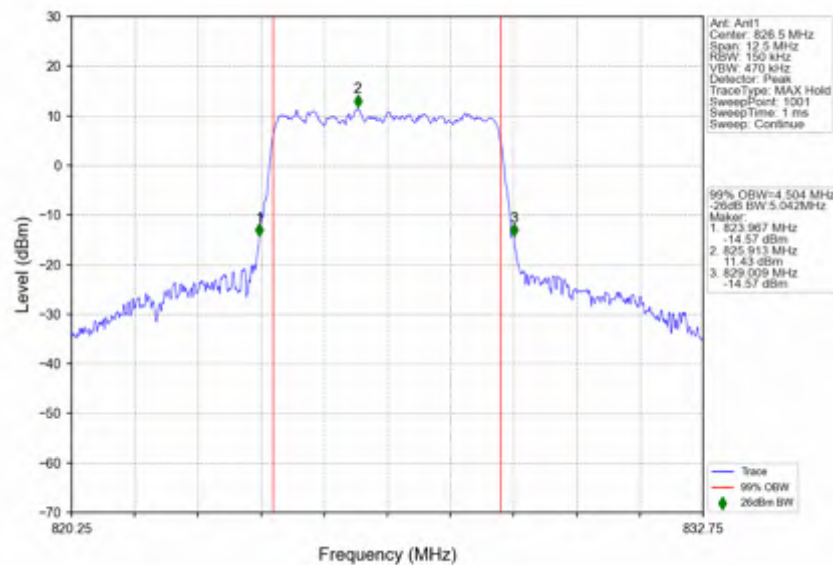
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n5\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM 256 QAM 846.5MHz\_Outer\_Full



n5\_15kHz\_SISO\_NTNV\_5MHz\_CP-OFDM QPSK 826.5MHz\_Outer\_Full



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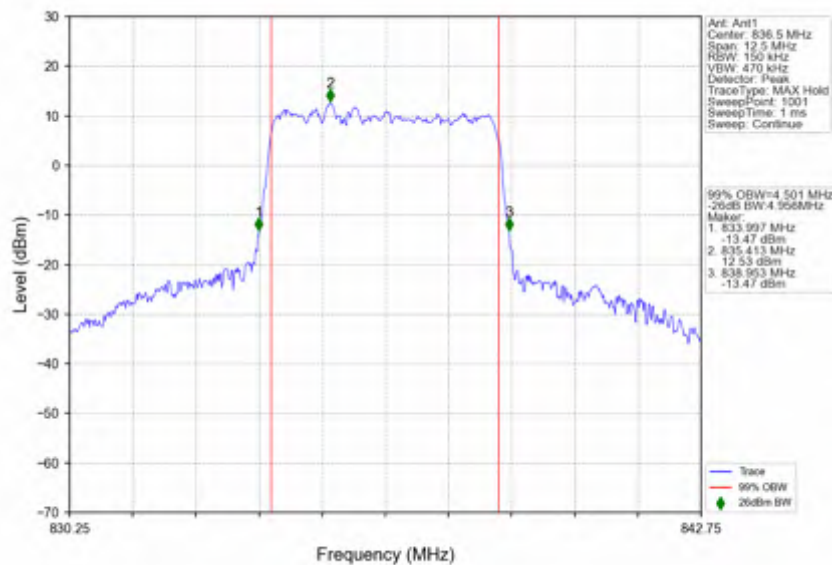
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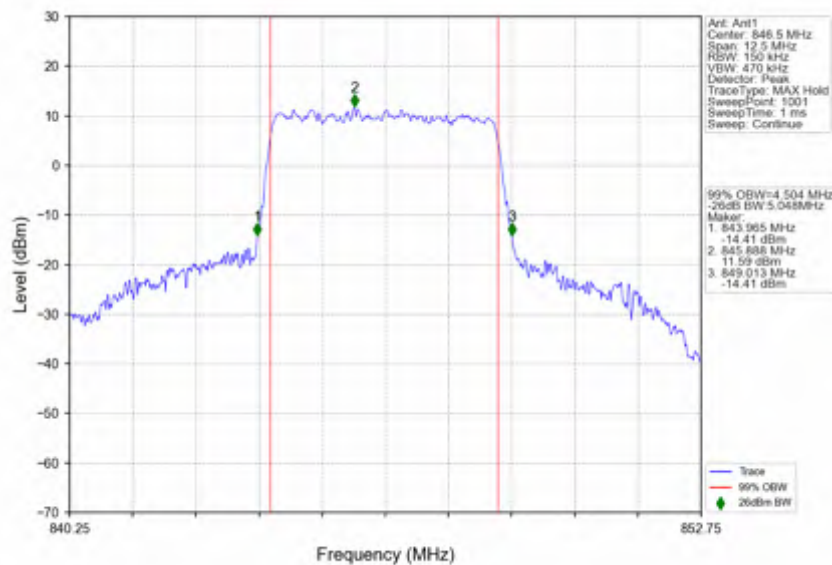
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n5\_15kHz\_SISO\_NTNV\_5MHz\_CP-OFDM QPSK\_836.5MHz\_Outer\_Full



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



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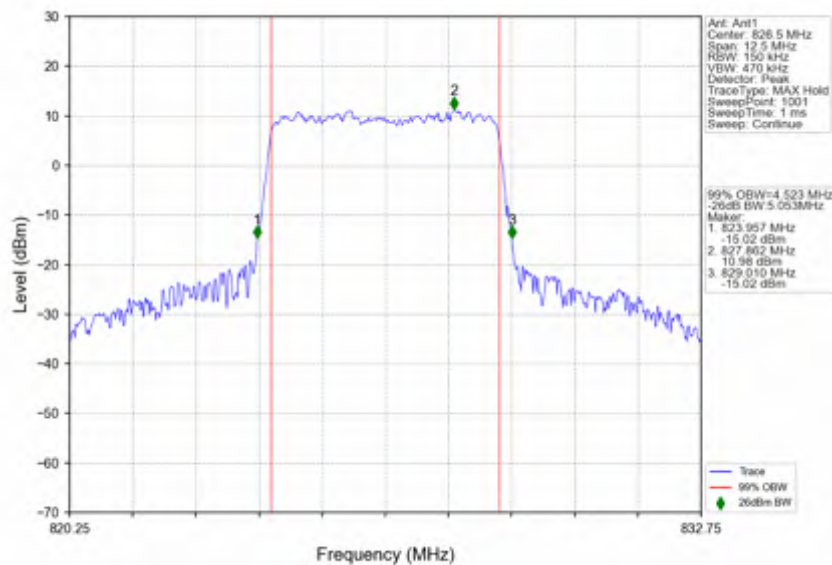
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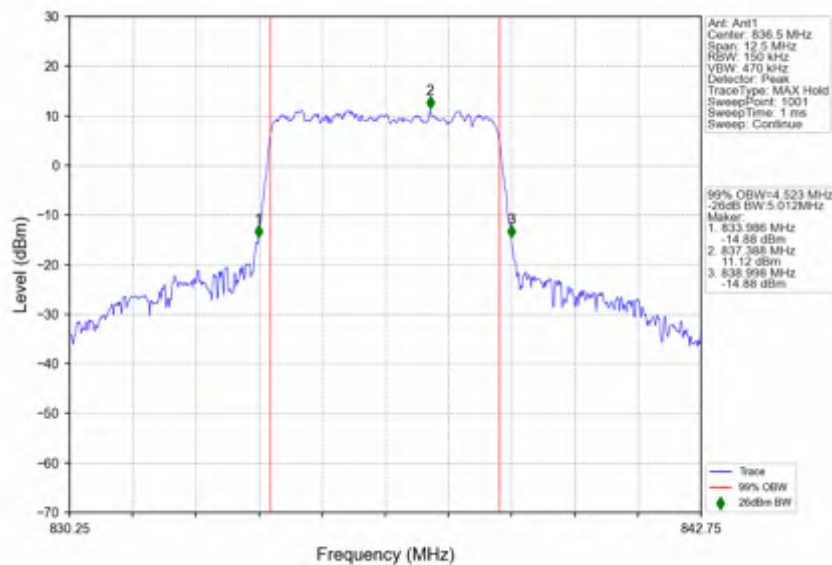
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n5\_15kHz\_SISO\_NTNV\_5MHz\_CP-OFDM\_16\_QAM\_826.5MHz\_Outer\_Full



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



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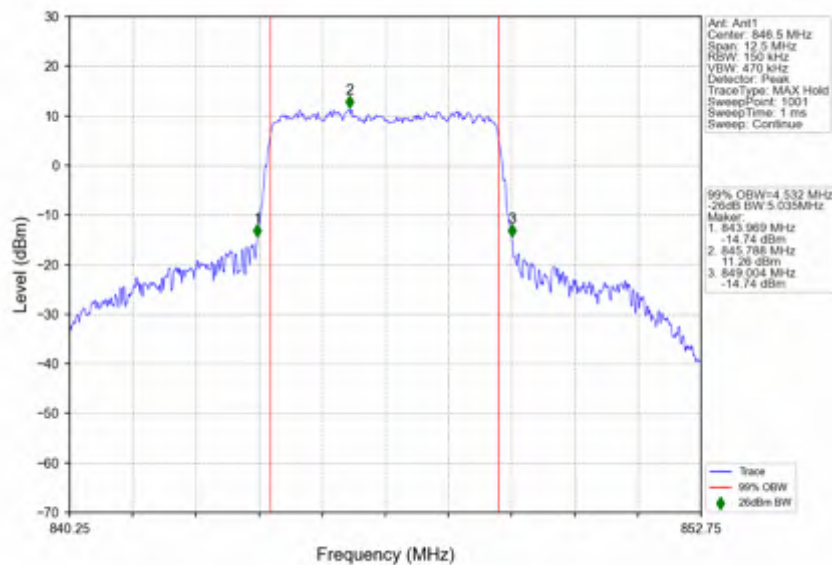
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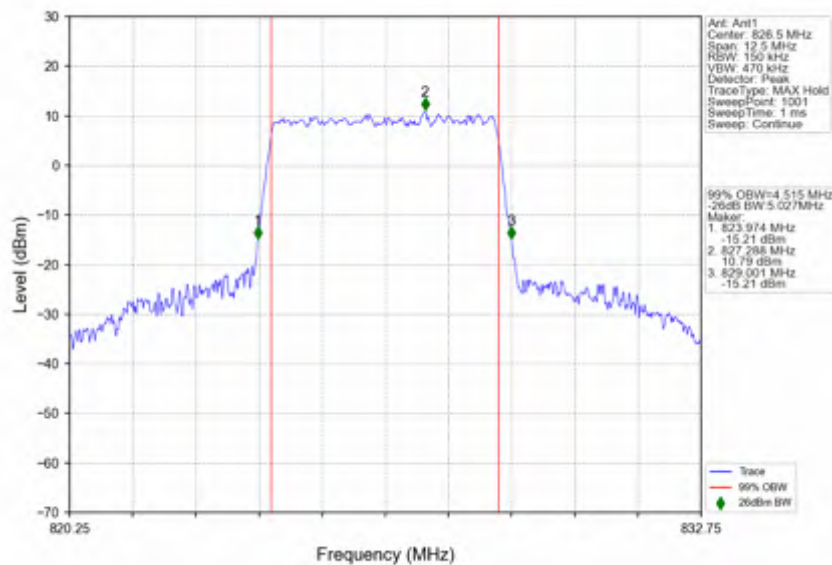
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n5\_15kHz\_SISO\_NTNV\_5MHz\_CP-OFDM\_16\_QAM\_846.5MHz\_Outer\_Full



n5\_15kHz\_SISO\_NTNV\_5MHz\_CP-OFDM\_64\_QAM\_826.5MHz\_Outer\_Full



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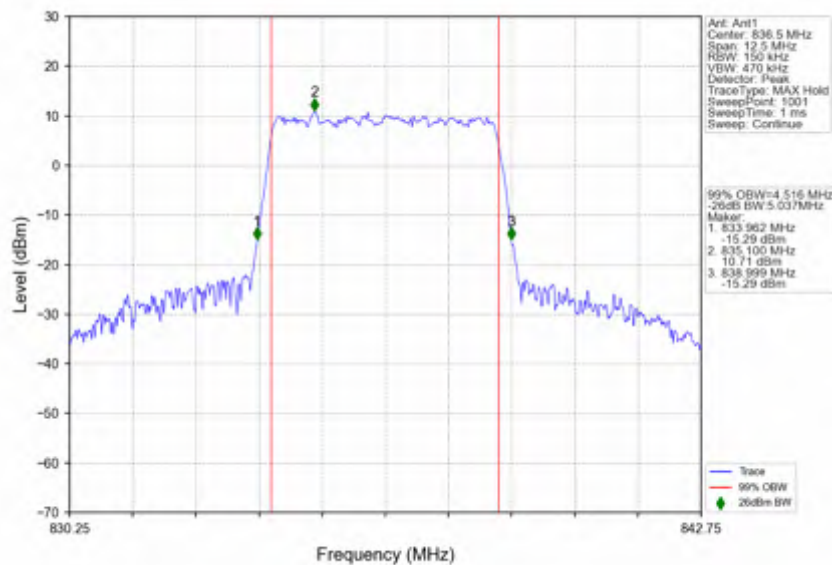
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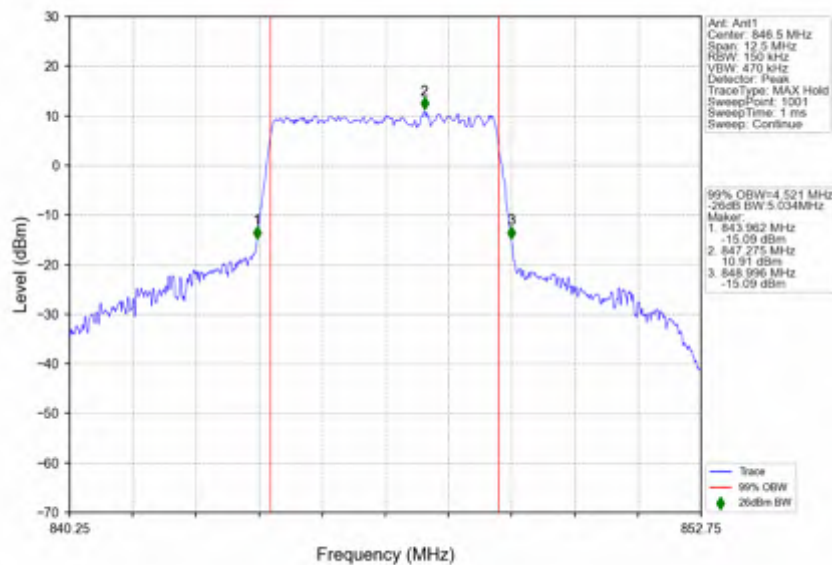
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n5\_15kHz\_SISO\_NTNV\_5MHz\_CP-OFDM\_64\_QAM\_836.5MHz\_Outer\_Full



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



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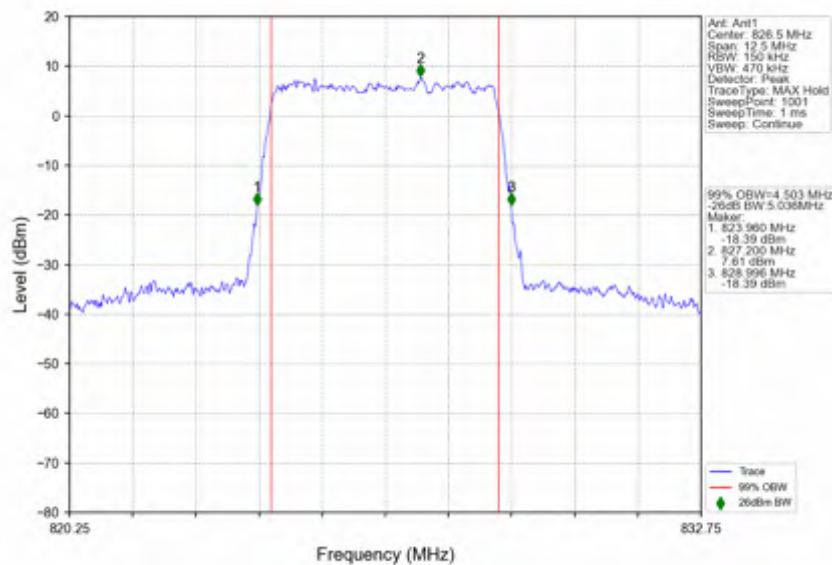
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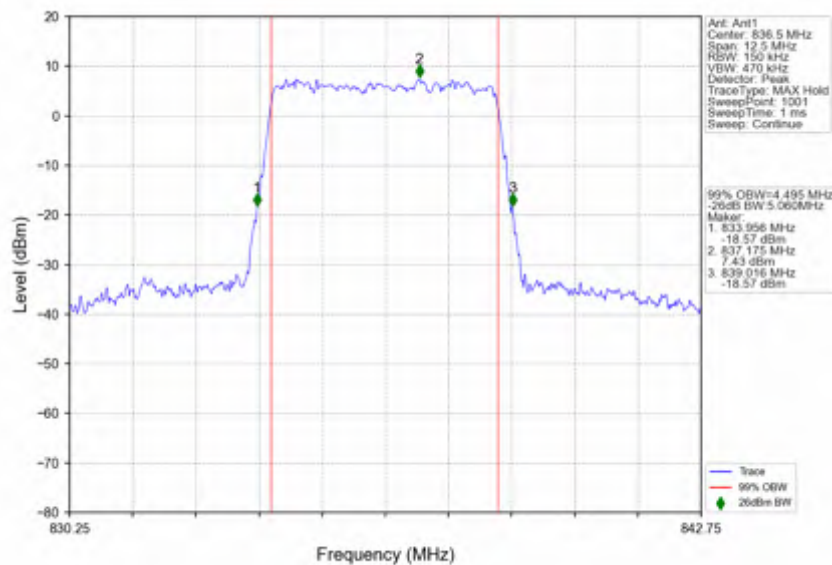
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n5\_15kHz\_SISO\_NTNV\_5MHz\_CP-OFDM 256 QAM 826.5MHz\_Outer\_Full



n5\_15kHz\_SISO\_NTNV\_5MHz\_CP-OFDM 256 QAM 836.5MHz\_Outer\_Full



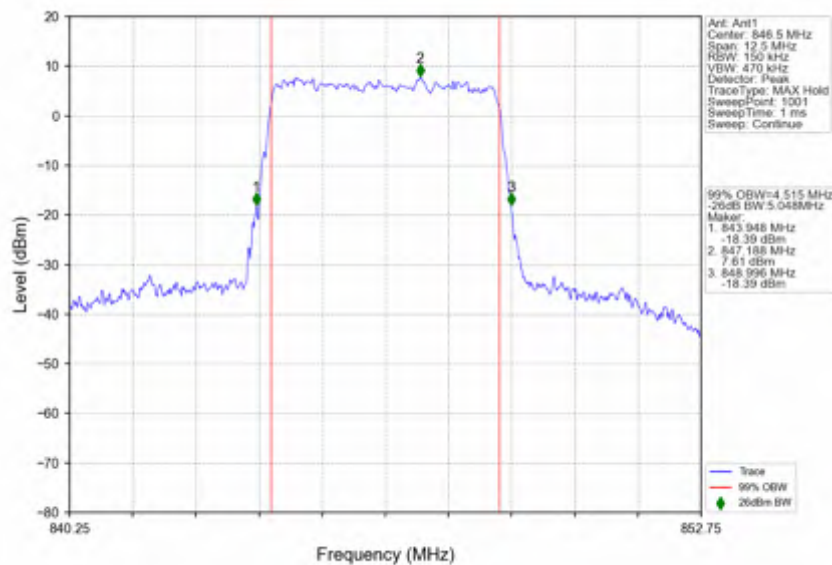
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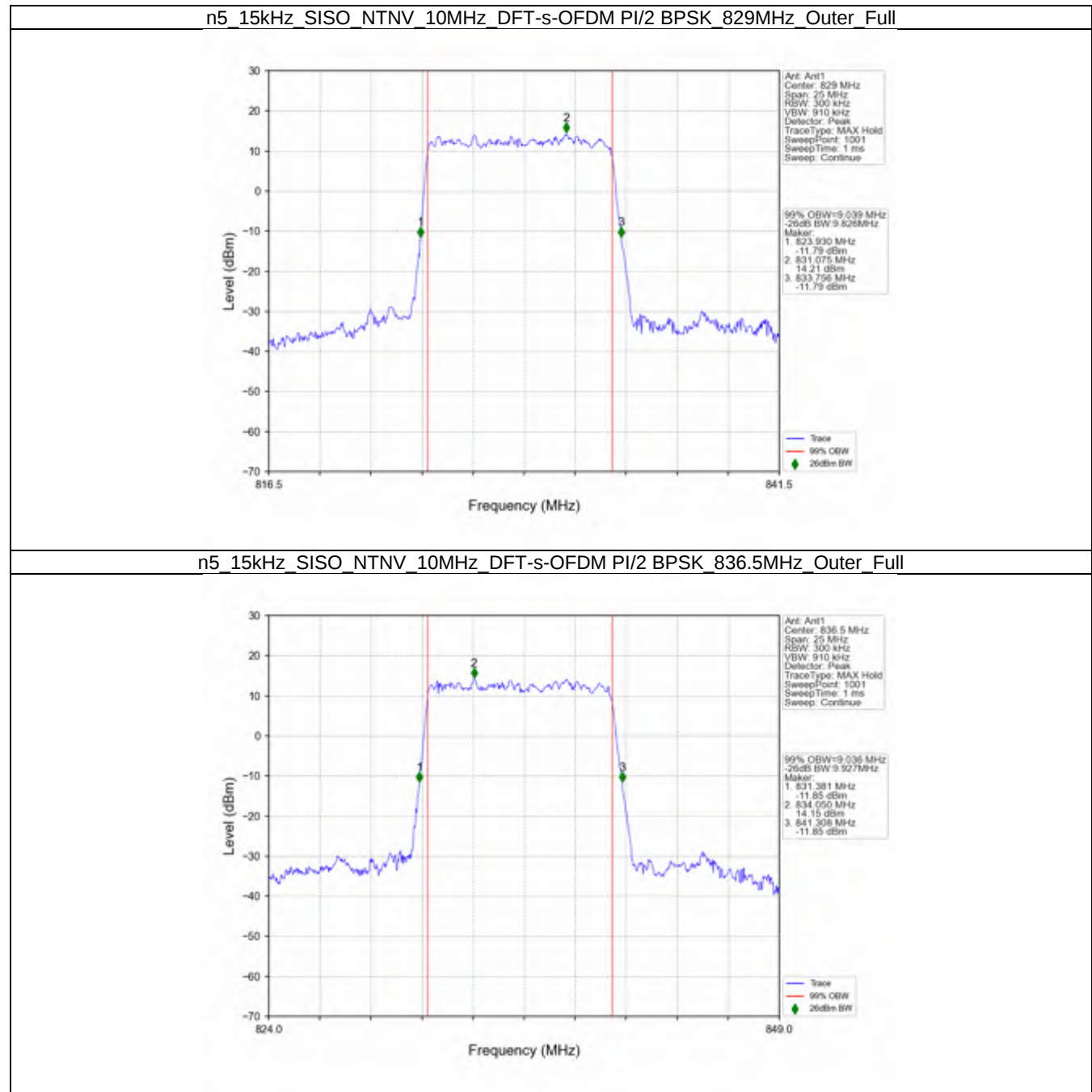
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## 2.2 15k\_SISO\_10MHz\_NTNV

### 2.2.1 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    | 9.04                | 9.83                 | /           | Pass    |
|                                   | 836.5           | Outer_Full    | 9.04                | 9.93                 | /           | Pass    |
|                                   | 844             | Outer_Full    | 9.04                | 9.96                 | /           | Pass    |
| DFT-s-OFDM QPSK                   | 829             | Outer_Full    | 9.06                | 9.92                 | /           | Pass    |
|                                   | 836.5           | Outer_Full    | 9.05                | 9.88                 | /           | Pass    |
|                                   | 844             | Outer_Full    | 9.05                | 9.80                 | /           | Pass    |
| DFT-s-OFDM 16 QAM                 | 829             | Outer_Full    | 9.07                | 9.93                 | /           | Pass    |
|                                   | 836.5           | Outer_Full    | 9.07                | 9.95                 | /           | Pass    |
|                                   | 844             | Outer_Full    | 9.05                | 9.88                 | /           | Pass    |
| DFT-s-OFDM 64 QAM                 | 829             | Outer_Full    | 9.05                | 9.94                 | /           | Pass    |
|                                   | 836.5           | Outer_Full    | 9.03                | 9.88                 | /           | Pass    |
|                                   | 844             | Outer_Full    | 9.05                | 9.94                 | /           | Pass    |
| DFT-s-OFDM 256 QAM                | 829             | Outer_Full    | 9.04                | 9.84                 | /           | Pass    |
|                                   | 836.5           | Outer_Full    | 9.05                | 9.90                 | /           | Pass    |
|                                   | 844             | Outer_Full    | 9.03                | 9.90                 | /           | Pass    |
| CP-OFDM QPSK                      | 829             | Outer_Full    | 9.38                | 10.22                | /           | Pass    |
|                                   | 836.5           | Outer_Full    | 9.37                | 10.15                | /           | Pass    |
|                                   | 844             | Outer_Full    | 9.36                | 10.21                | /           | Pass    |
| CP-OFDM 16 QAM                    | 829             | Outer_Full    | 9.37                | 10.26                | /           | Pass    |
|                                   | 836.5           | Outer_Full    | 9.36                | 10.20                | /           | Pass    |
|                                   | 844             | Outer_Full    | 9.36                | 10.17                | /           | Pass    |
| CP-OFDM 64 QAM                    | 829             | Outer_Full    | 9.36                | 10.16                | /           | Pass    |
|                                   | 836.5           | Outer_Full    | 9.37                | 10.22                | /           | Pass    |
|                                   | 844             | Outer_Full    | 9.35                | 10.20                | /           | Pass    |
| CP-OFDM 256 QAM                   | 829             | Outer_Full    | 9.38                | 10.17                | /           | Pass    |
|                                   | 836.5           | Outer_Full    | 9.39                | 10.23                | /           | Pass    |
|                                   | 844             | Outer_Full    | 9.37                | 10.24                | /           | Pass    |

## 2.2.2 Test Graph



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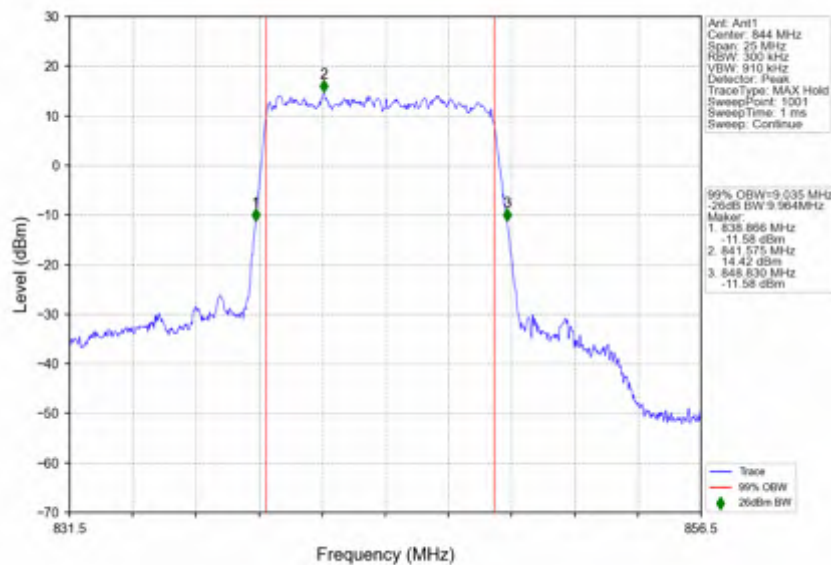
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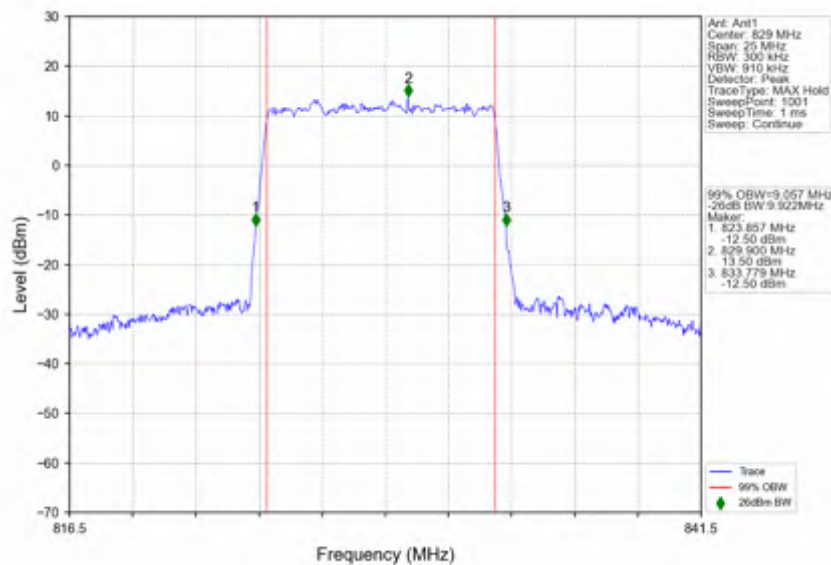
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n5\_15kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM PI/2 BPSK\_844MHz\_Outer\_Full



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



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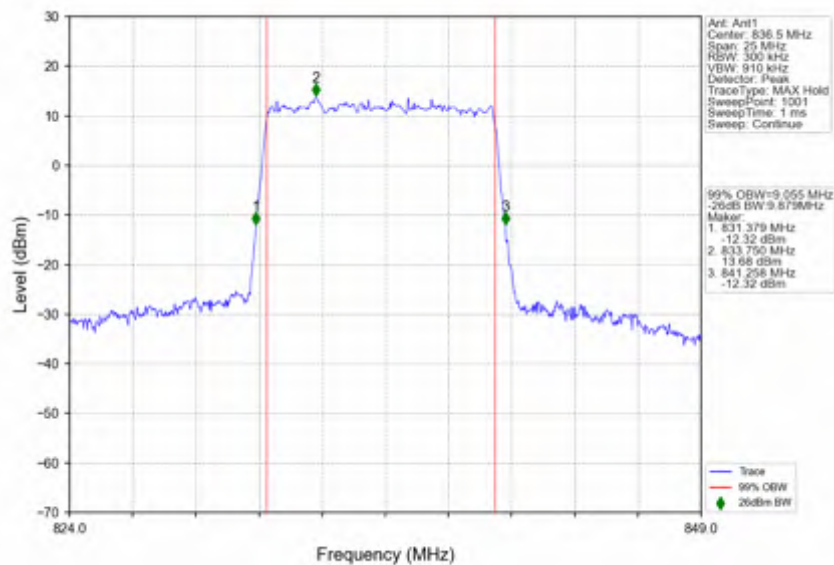
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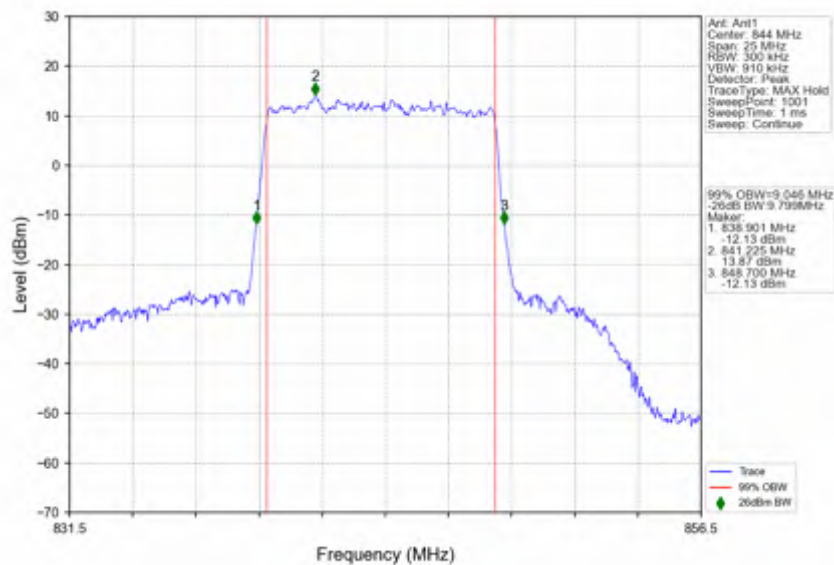
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n5\_15kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM QPSK\_836.5MHz\_Outer\_Full



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



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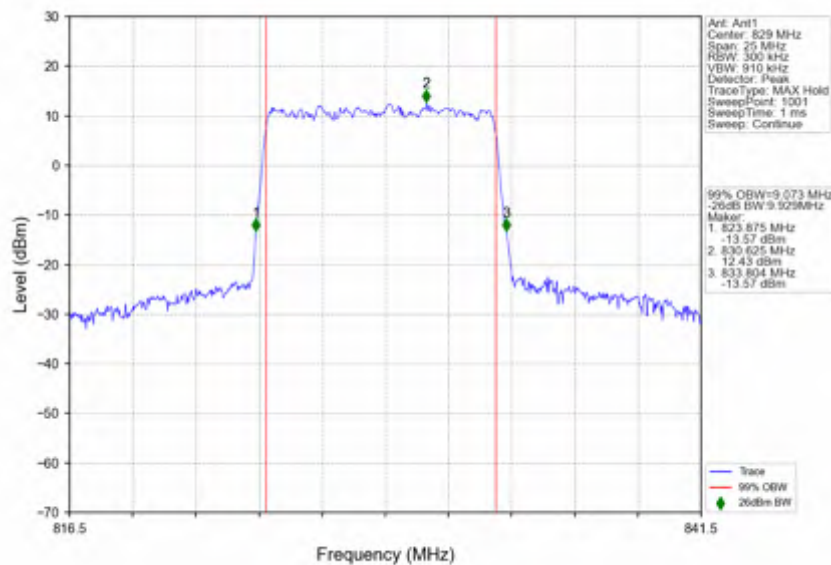
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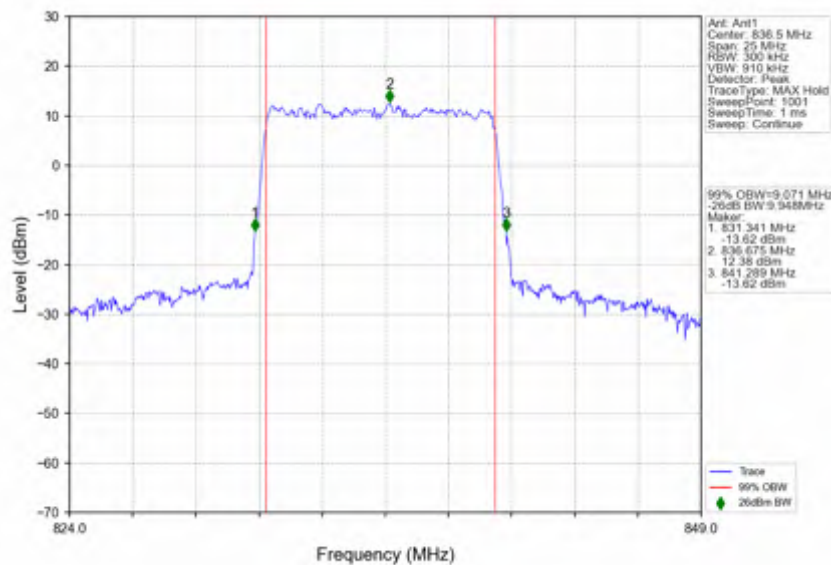
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n5\_15kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM\_16\_QAM\_829MHz\_Outer\_Full



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



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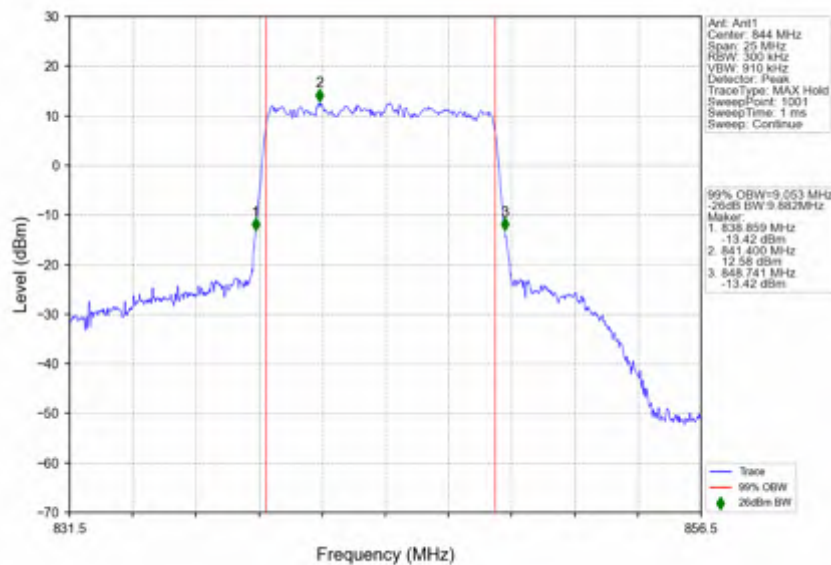
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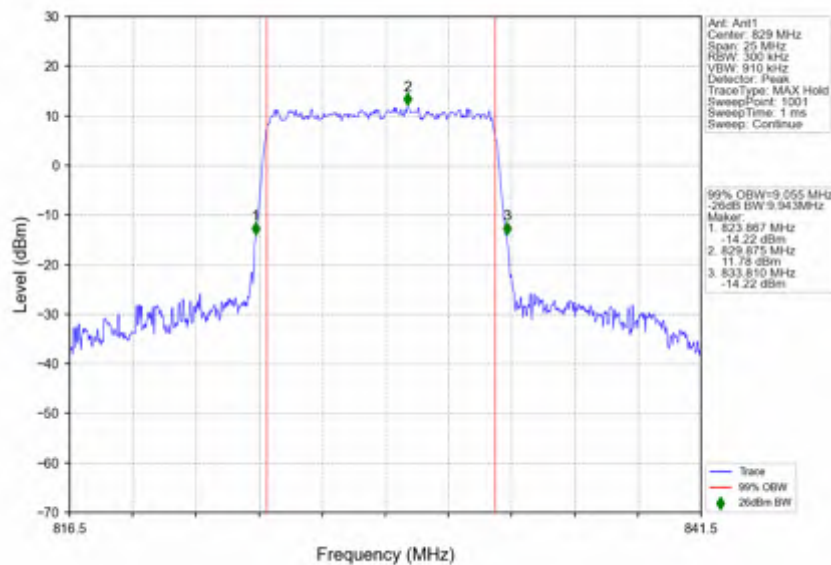
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n5\_15kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM\_16\_QAM\_844MHz\_Outer\_Full



n5\_15kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM\_64\_QAM\_829MHz\_Outer\_Full



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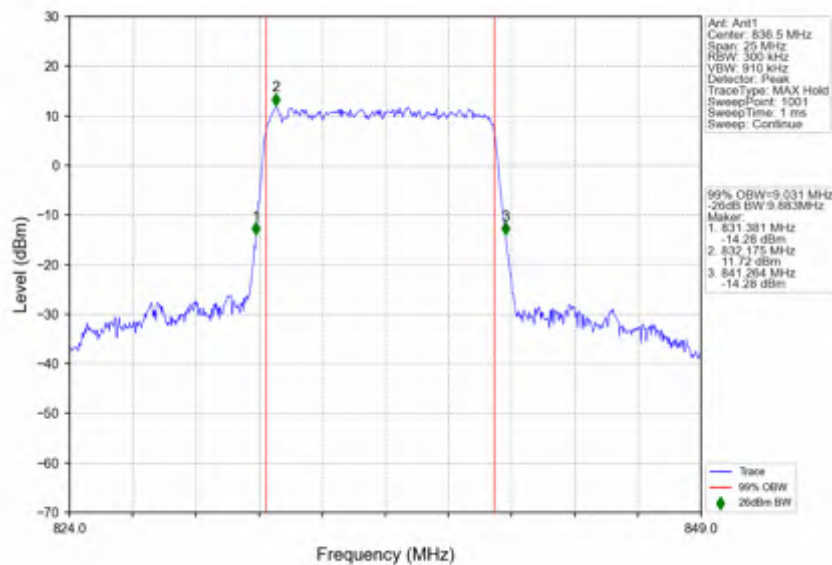
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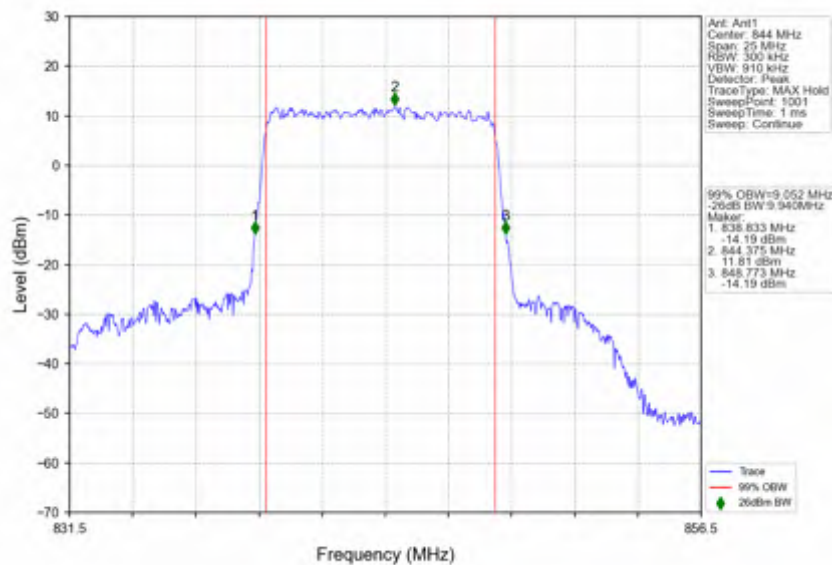
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n5\_15kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM 64 QAM\_836.5MHz\_Outer\_Full



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



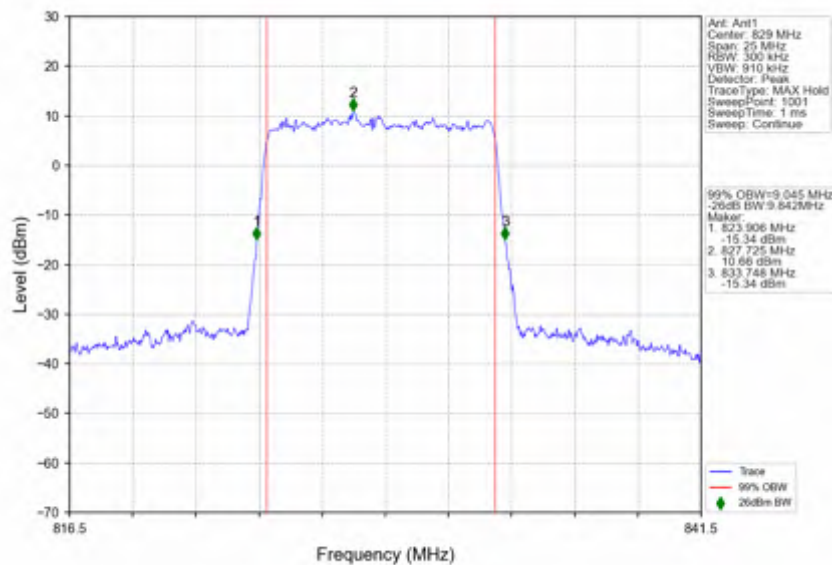
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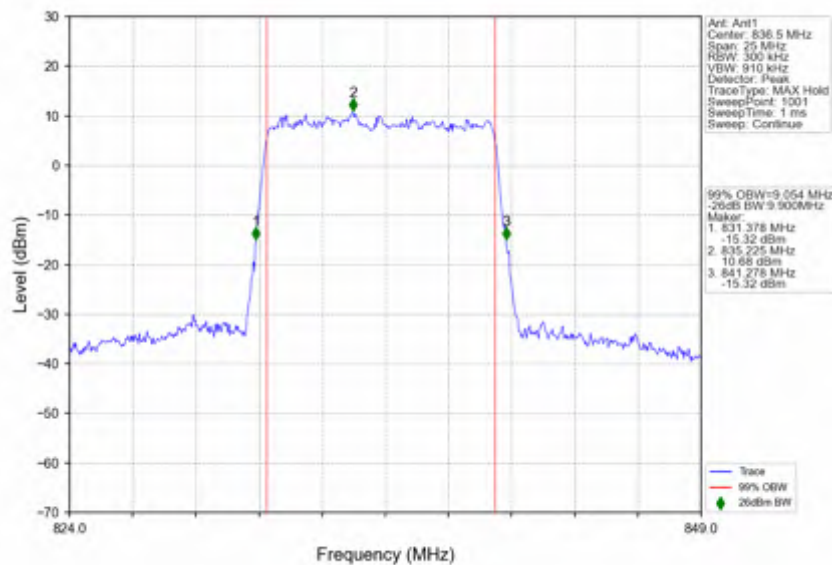
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n5\_15kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM\_256\_QAM\_829MHz\_Outer\_Full



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



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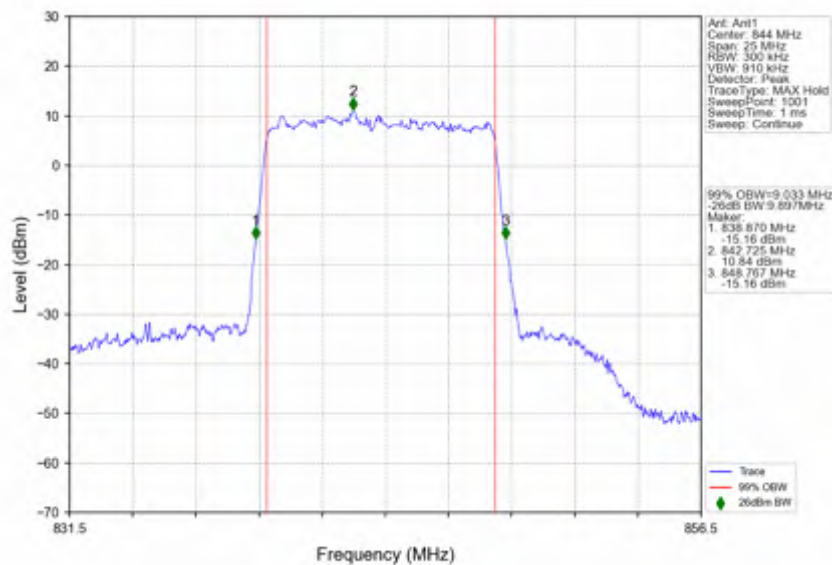
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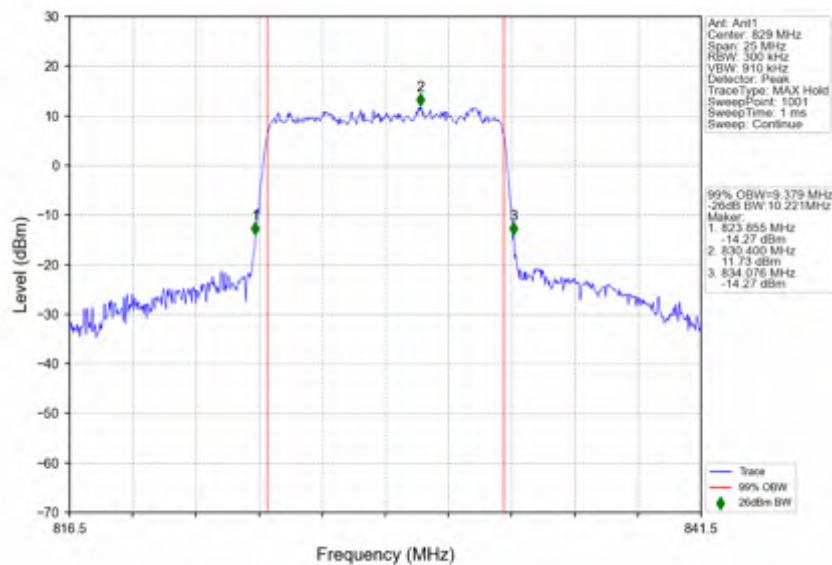
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n5\_15kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM\_256\_QAM\_844MHz\_Outer\_Full



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

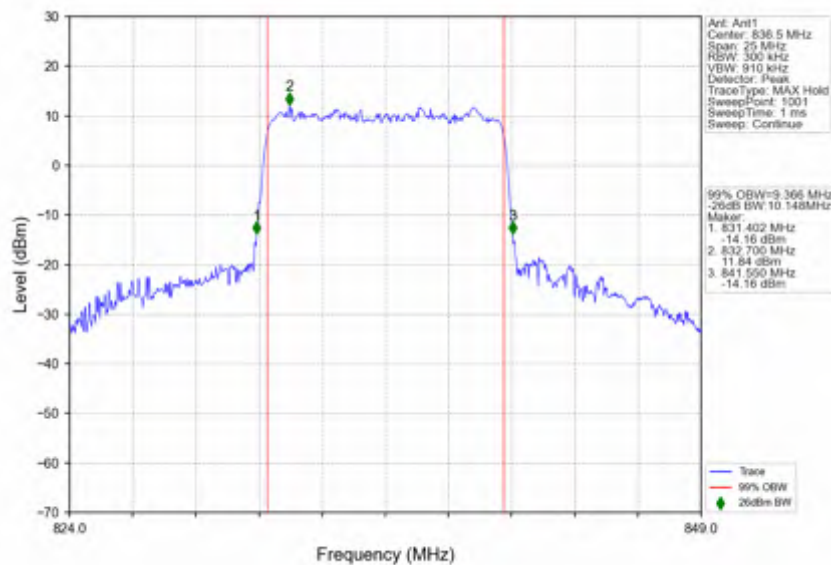


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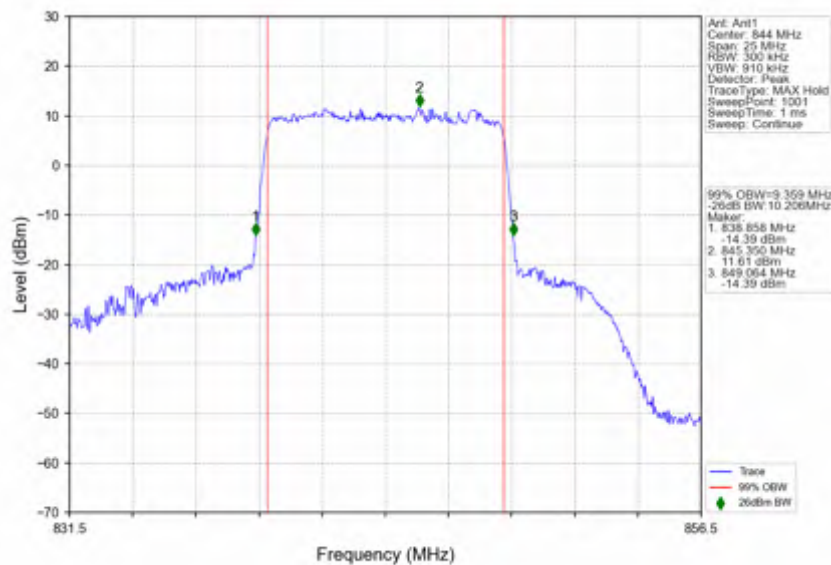
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n5\_15kHz\_SISO\_NTNV\_10MHz\_CP-OFDM QPSK\_836.5MHz\_Outer\_Full



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



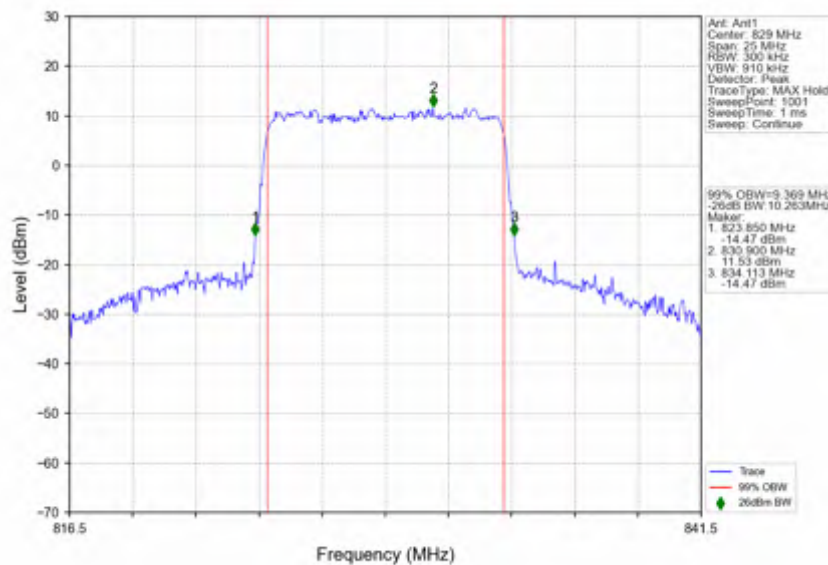
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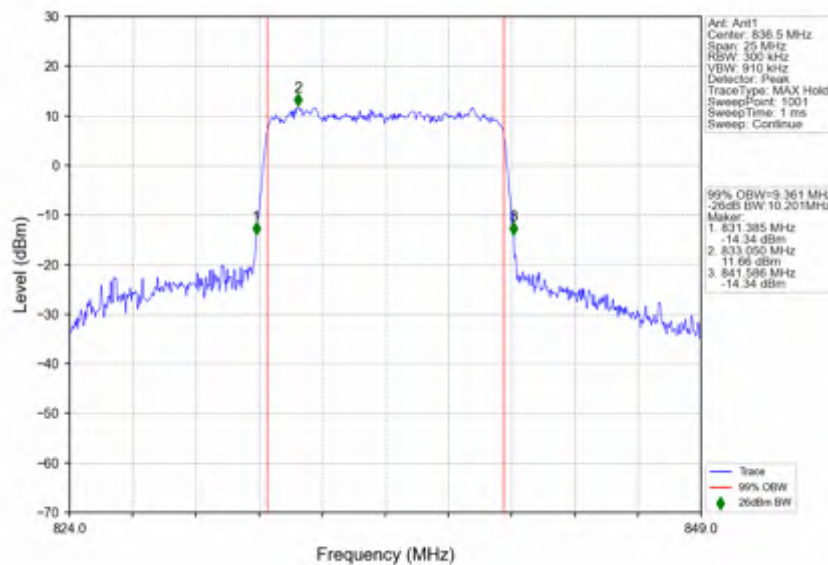
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n5\_15kHz\_SISO\_NTNV\_10MHz\_CP-OFDM\_16\_QAM\_829MHz\_Outer\_Full



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



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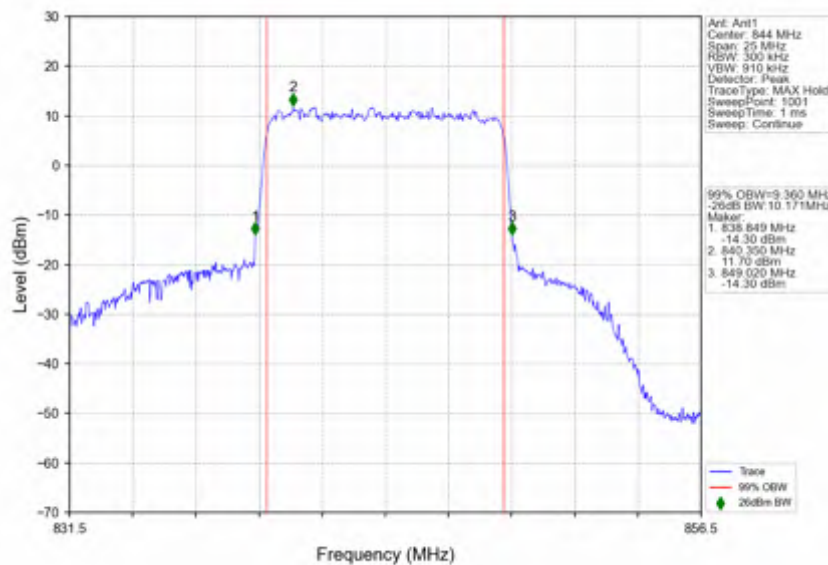
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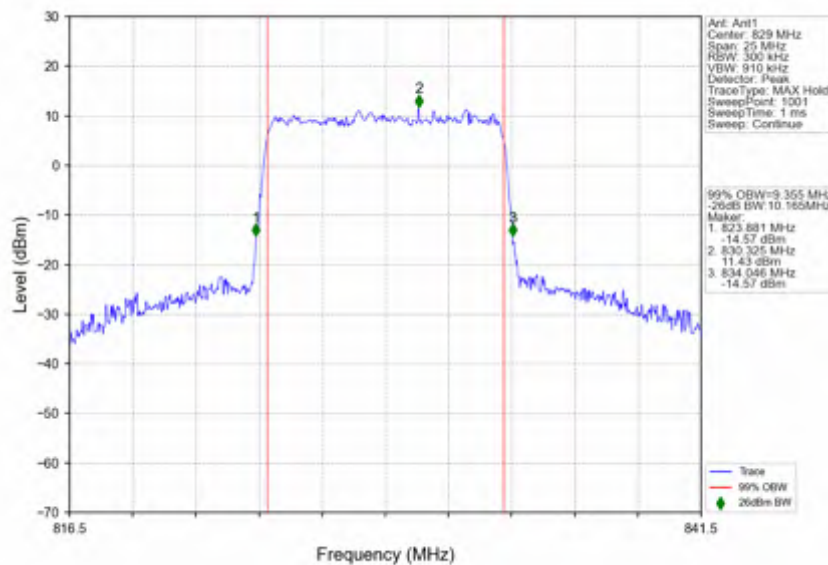
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n5\_15kHz\_SISO\_NTNV\_10MHz\_CP-OFDM 16 QAM\_844MHz\_Outer\_Full



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



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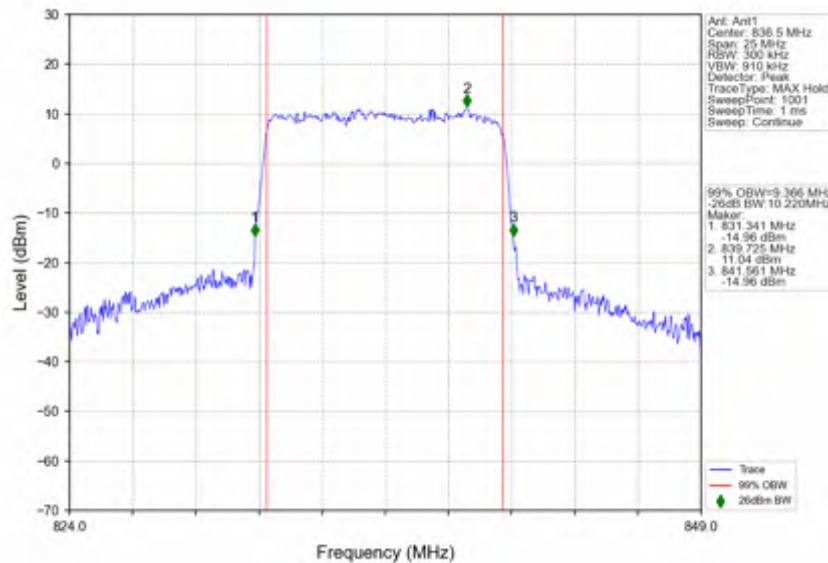
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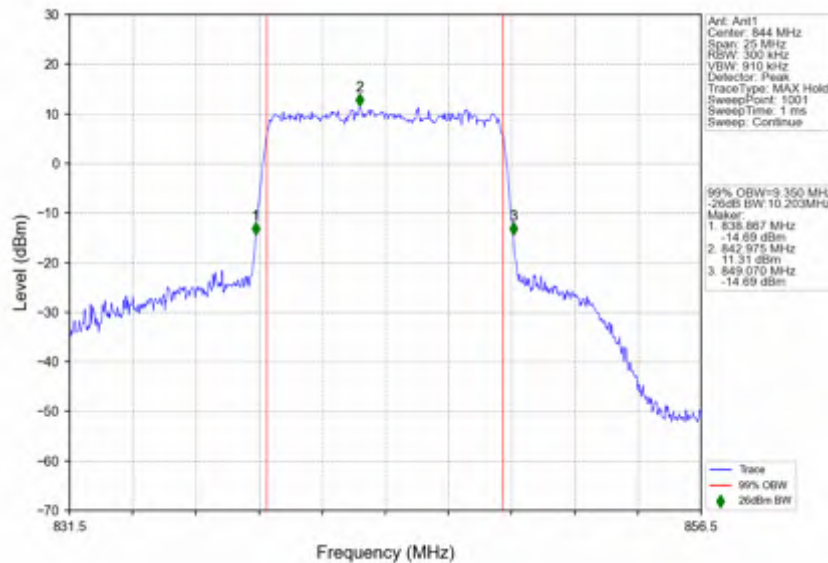
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n5\_15kHz\_SISO\_NTNV\_10MHz\_CP-OFDM 64 QAM\_836.5MHz\_Outer\_Full



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



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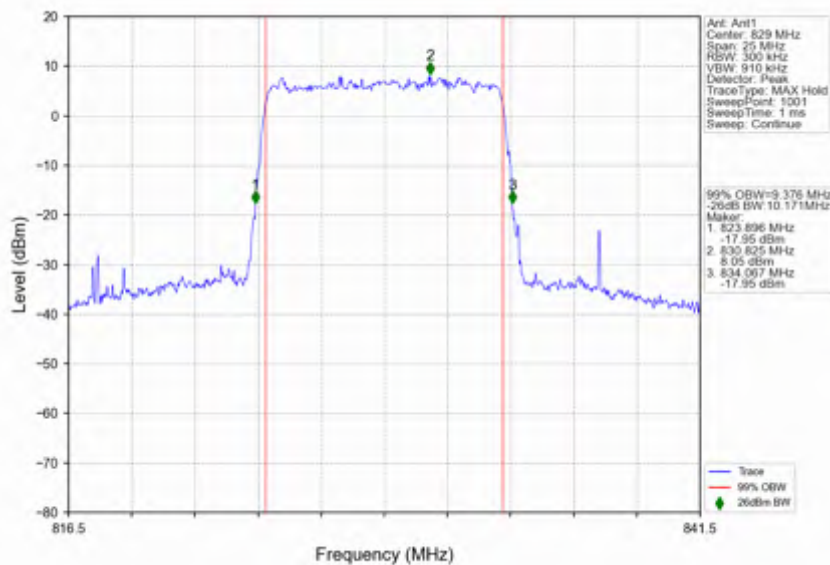
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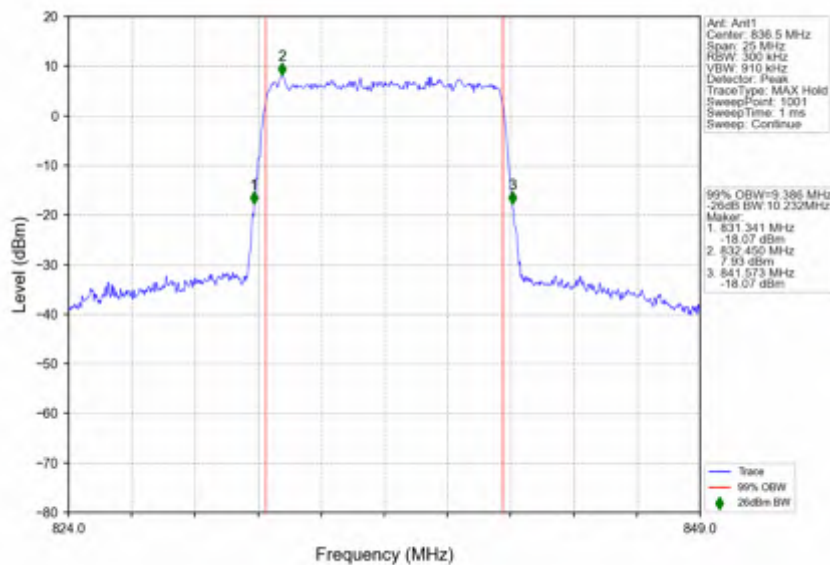
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n5\_15kHz\_SISO\_NTNV\_10MHz\_CP-OFDM\_256\_QAM\_829MHz\_Outer\_Full



|    |       |      |      |       |         |         |          |       |      |
|----|-------|------|------|-------|---------|---------|----------|-------|------|
| n5 | 15kHz | SISO | NTNV | 10MHz | CP-OFDM | 256 QAM | 836.5MHz | Outer | Full |
|----|-------|------|------|-------|---------|---------|----------|-------|------|

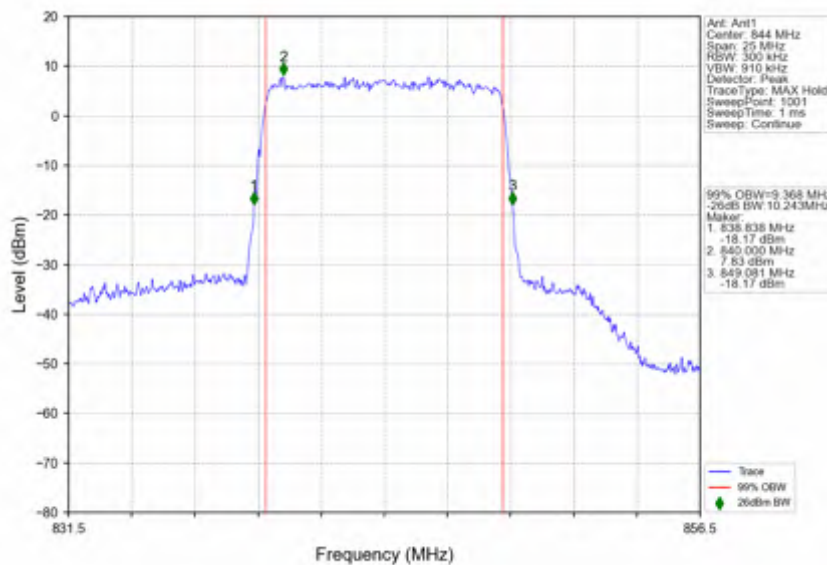


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p5\_15kHz\_SISO\_NTNV\_10MHz\_CP-OFDM 256 QAM\_844MHz\_Outer\_Full



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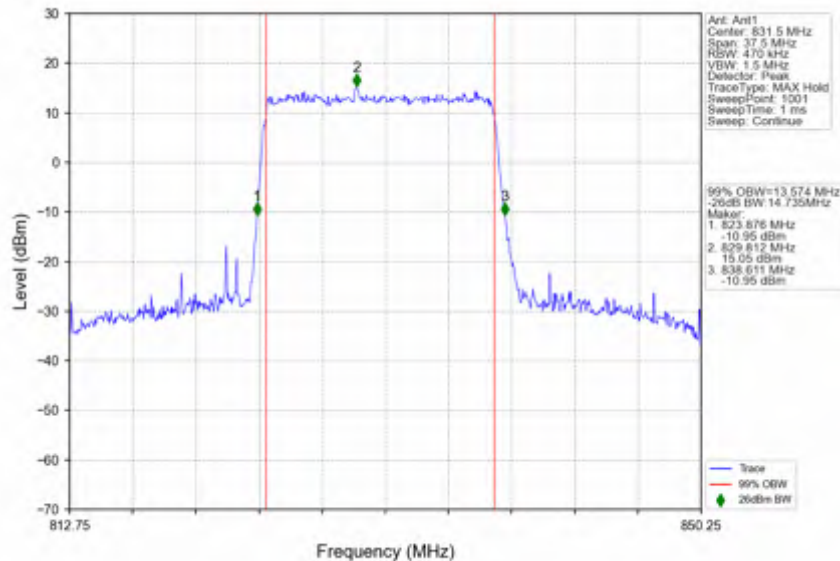
## 2.3 15k\_SISO\_15MHz\_NTNV

### 2.3.1 Test Result

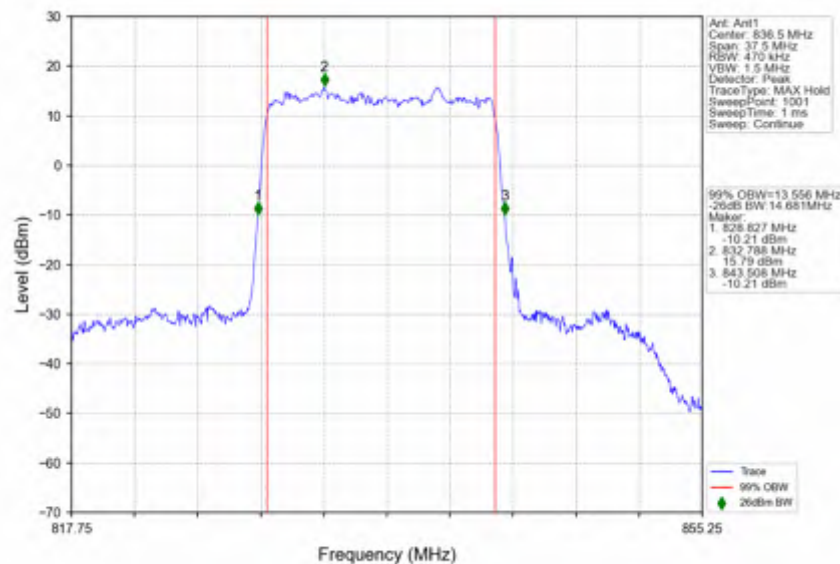
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|-----------------------------------|-----------------|---------------|---------------------|----------------------|-------------|---------|
| Modulation                        | Frequency (MHz) | RB Allocation | 99% Bandwidth (MHz) | 26dB Bandwidth (MHz) | Limit (MHz) | Verdict |
| DFT-s-OFDM PI/2 BPSK              | 831.5           | Outer_Full    | 13.57               | 14.73                | /           | Pass    |
|                                   | 836.5           | Outer_Full    | 13.56               | 14.68                | /           | Pass    |
|                                   | 841.5           | Outer_Full    | 13.58               | 14.70                | /           | Pass    |
| DFT-s-OFDM QPSK                   | 831.5           | Outer_Full    | 13.53               | 14.73                | /           | Pass    |
|                                   | 836.5           | Outer_Full    | 13.59               | 14.75                | /           | Pass    |
|                                   | 841.5           | Outer_Full    | 13.52               | 14.77                | /           | Pass    |
| DFT-s-OFDM 16 QAM                 | 831.5           | Outer_Full    | 13.53               | 14.73                | /           | Pass    |
|                                   | 836.5           | Outer_Full    | 13.54               | 14.69                | /           | Pass    |
|                                   | 841.5           | Outer_Full    | 13.52               | 14.68                | /           | Pass    |
| DFT-s-OFDM 64 QAM                 | 831.5           | Outer_Full    | 13.57               | 14.70                | /           | Pass    |
|                                   | 836.5           | Outer_Full    | 13.59               | 14.74                | /           | Pass    |
|                                   | 841.5           | Outer_Full    | 13.57               | 14.75                | /           | Pass    |
| DFT-s-OFDM 256 QAM                | 831.5           | Outer_Full    | 13.53               | 14.68                | /           | Pass    |
|                                   | 836.5           | Outer_Full    | 13.54               | 14.72                | /           | Pass    |
|                                   | 841.5           | Outer_Full    | 13.53               | 14.74                | /           | Pass    |
| CP-OFDM QPSK                      | 831.5           | Outer_Full    | 14.24               | 15.30                | /           | Pass    |
|                                   | 836.5           | Outer_Full    | 14.23               | 15.29                | /           | Pass    |
|                                   | 841.5           | Outer_Full    | 14.21               | 15.24                | /           | Pass    |
| CP-OFDM 16 QAM                    | 831.5           | Outer_Full    | 14.26               | 15.32                | /           | Pass    |
|                                   | 836.5           | Outer_Full    | 14.31               | 15.29                | /           | Pass    |
|                                   | 841.5           | Outer_Full    | 14.30               | 15.34                | /           | Pass    |
| CP-OFDM 64 QAM                    | 831.5           | Outer_Full    | 14.22               | 15.29                | /           | Pass    |
|                                   | 836.5           | Outer_Full    | 14.22               | 15.28                | /           | Pass    |
|                                   | 841.5           | Outer_Full    | 14.20               | 15.33                | /           | Pass    |
| CP-OFDM 256 QAM                   | 831.5           | Outer_Full    | 14.22               | 15.32                | /           | Pass    |
|                                   | 836.5           | Outer_Full    | 14.25               | 15.30                | /           | Pass    |
|                                   | 841.5           | Outer_Full    | 14.23               | 15.29                | /           | Pass    |

## 2.3.2 Test Graph

n5\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM\_PI/2\_BPSK\_831.5MHz\_Outer\_Full



n5\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM\_PI/2\_BPSK\_836.5MHz\_Outer\_Full



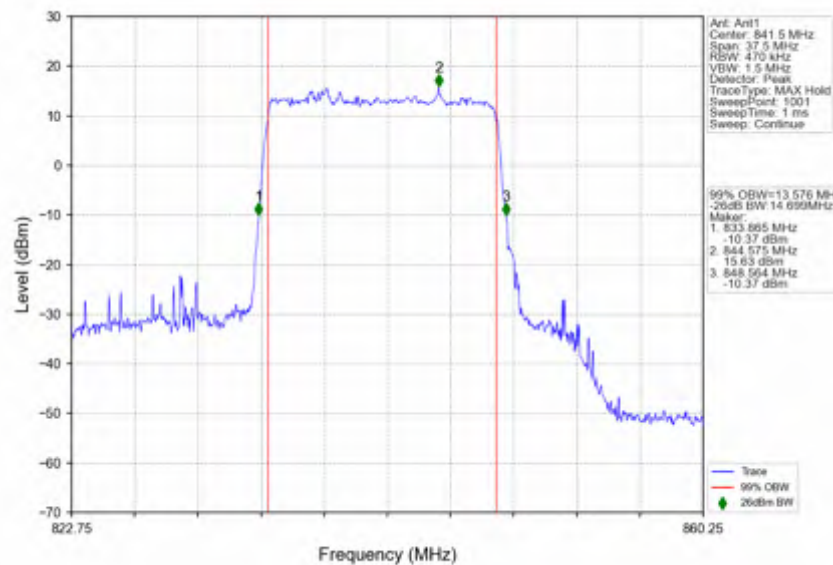
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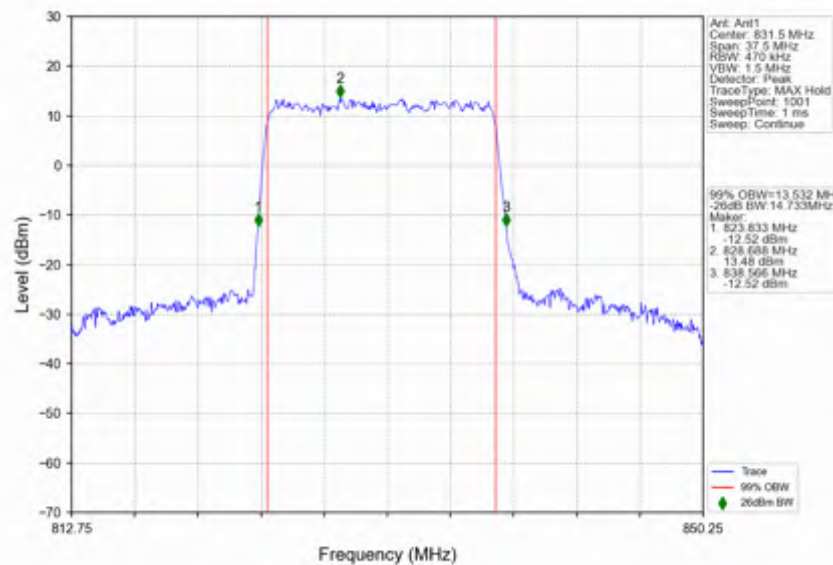
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n5\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM\_PI/2\_BPSK\_841.5MHz\_Outer\_Full



n5 15kHz SISO NTNv 15MHz DFT-s-OFDM QPSK 831.5MHz Outer Full

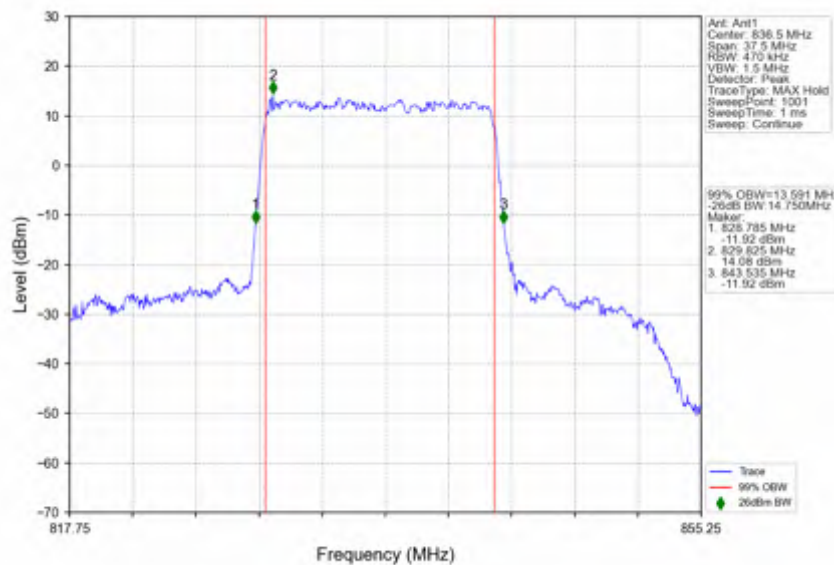


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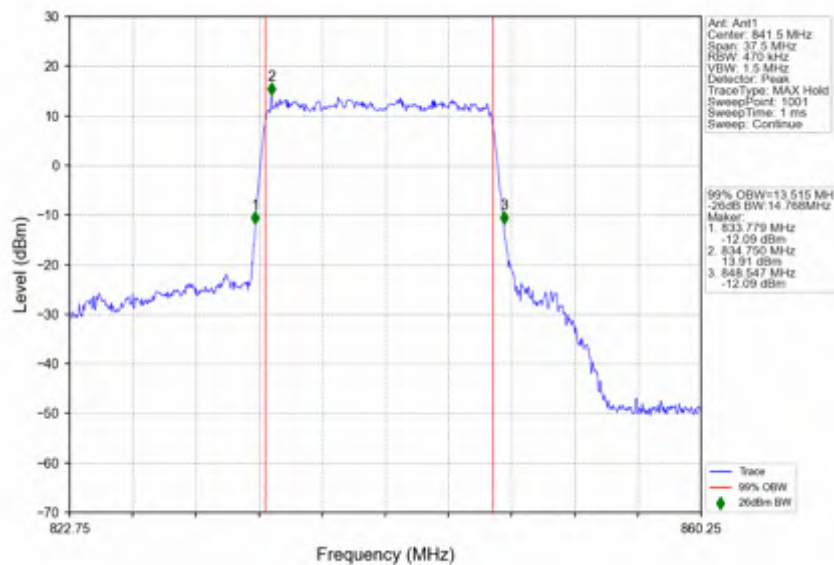
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n5\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM\_QPSK\_836.5MHz\_Outer\_Full



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



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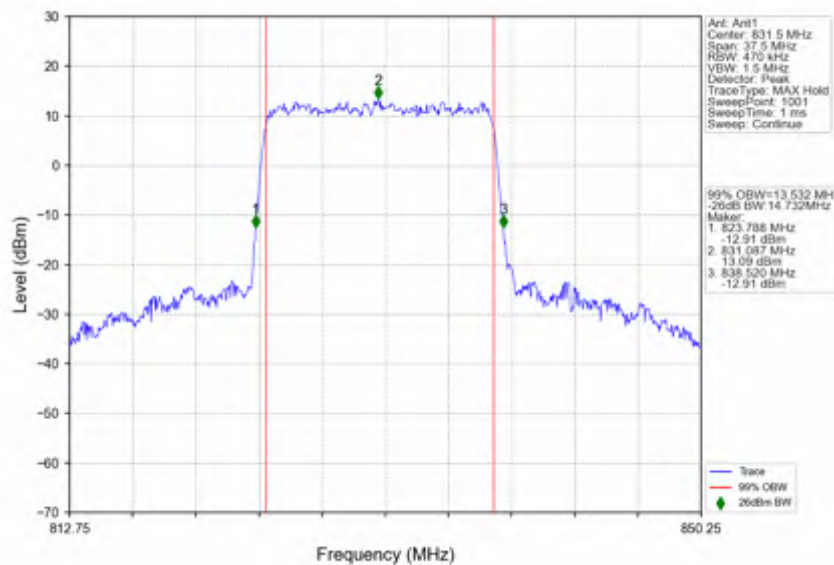
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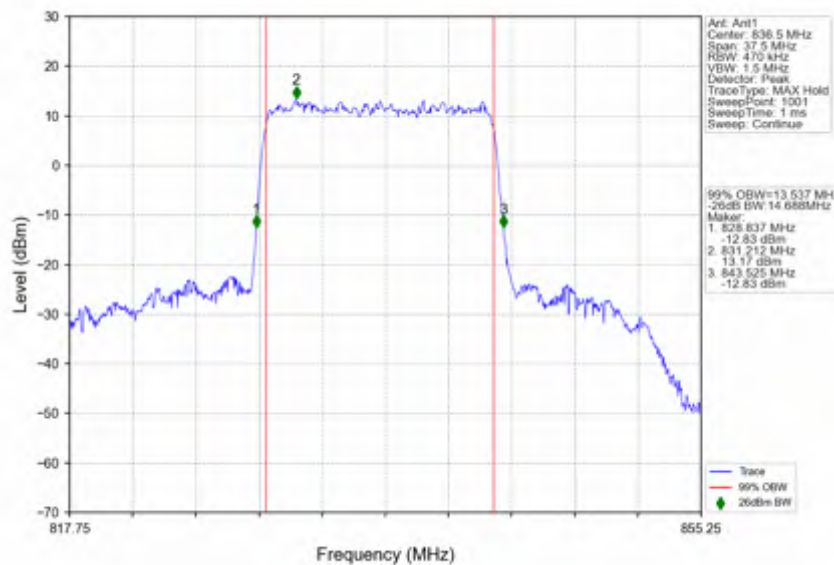
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n5\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM\_16\_QAM\_831.5MHz\_Outer\_Full



|    |       |      |      |       |            |        |          |       |      |
|----|-------|------|------|-------|------------|--------|----------|-------|------|
| n5 | 15kHz | SISO | NTNV | 15MHz | DFT-s-OFDM | 16 QAM | 836.5MHz | Outer | Full |
|----|-------|------|------|-------|------------|--------|----------|-------|------|

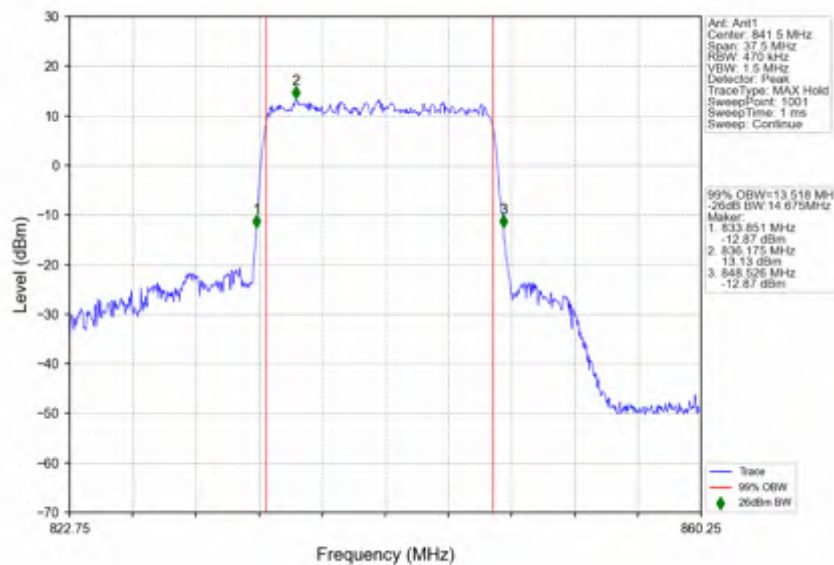


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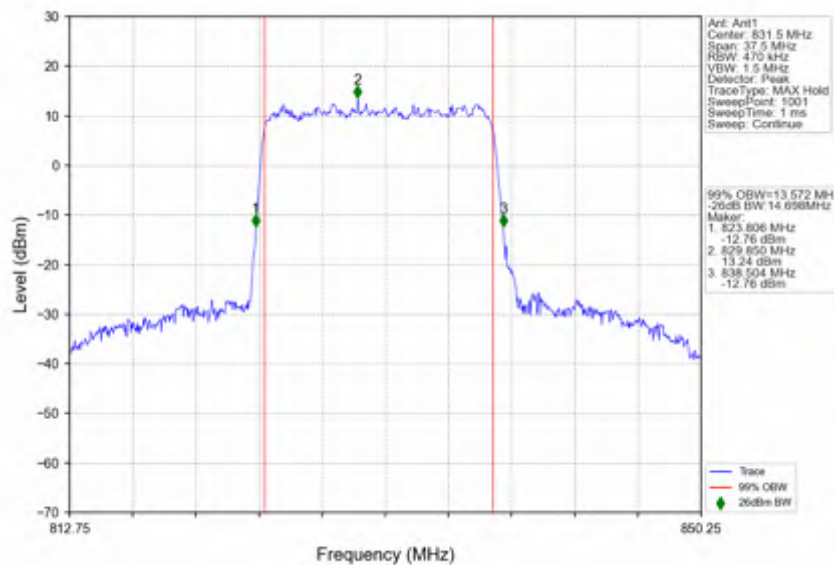
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n5\_15kHz\_SISO\_NTV\_15MHz\_DFT-s-OFDM 16 QAM 841.5MHz\_Outer\_Full



n5\_15kHz\_SISO\_NTV\_15MHz\_DFT-s-OFDM 64 QAM 831.5MHz\_Outer\_Full



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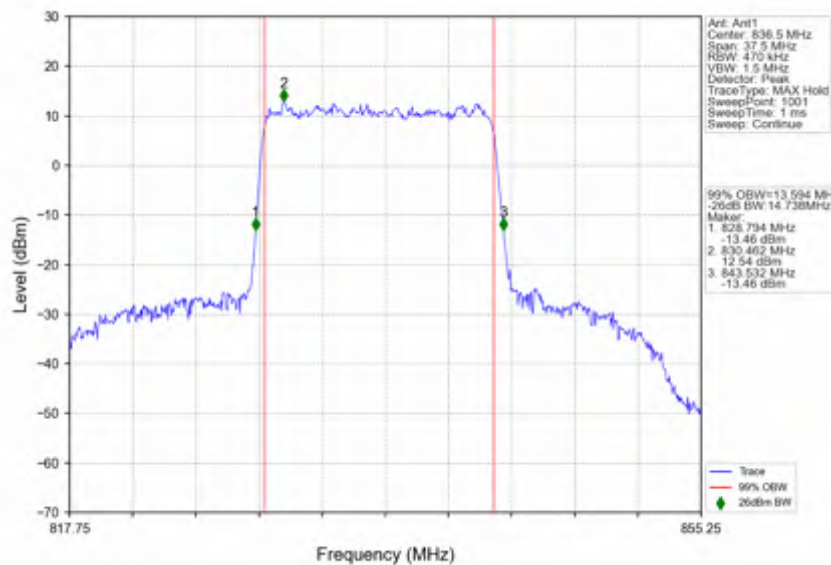
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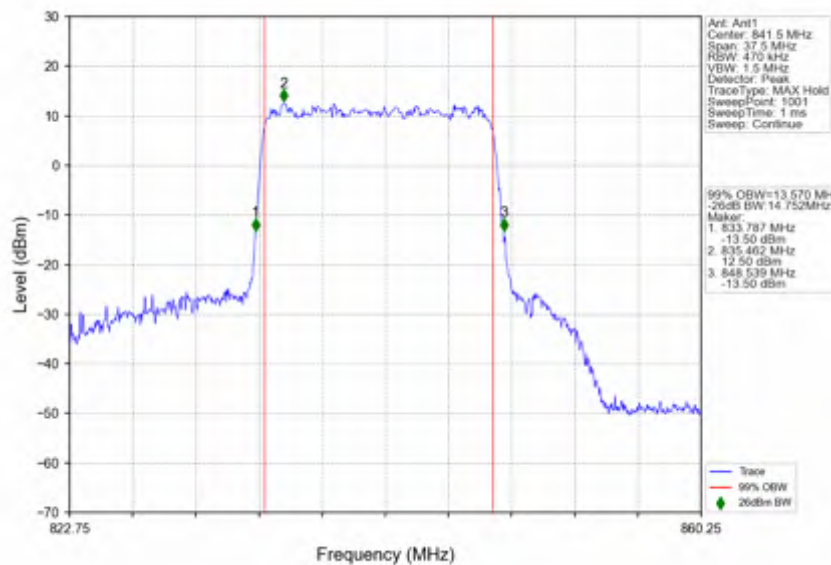
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n5\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM\_64\_QAM\_836.5MHz\_Outer\_Full



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

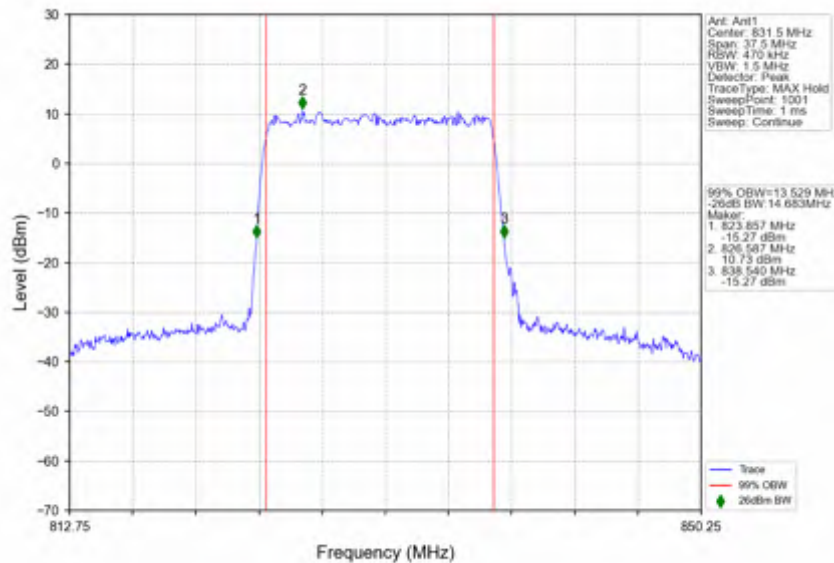


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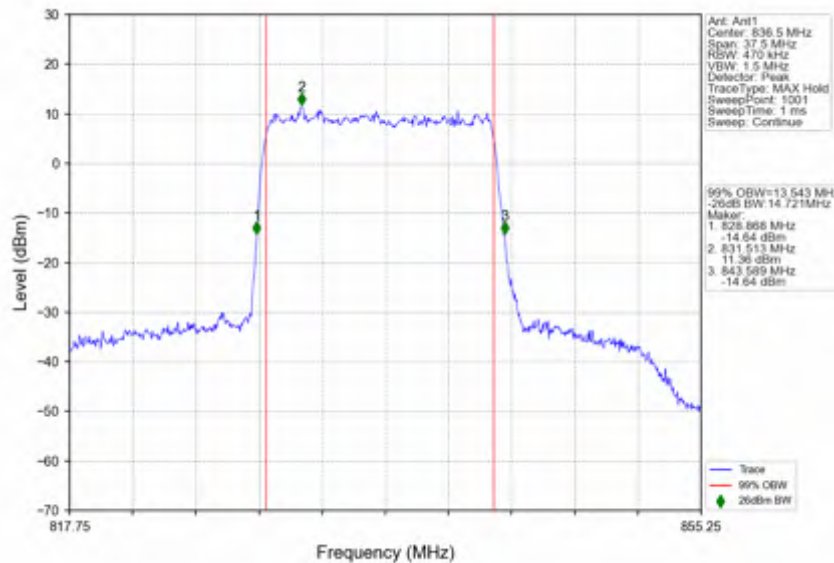
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n5\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM\_256\_QAM\_831.5MHz\_Outer\_Full



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



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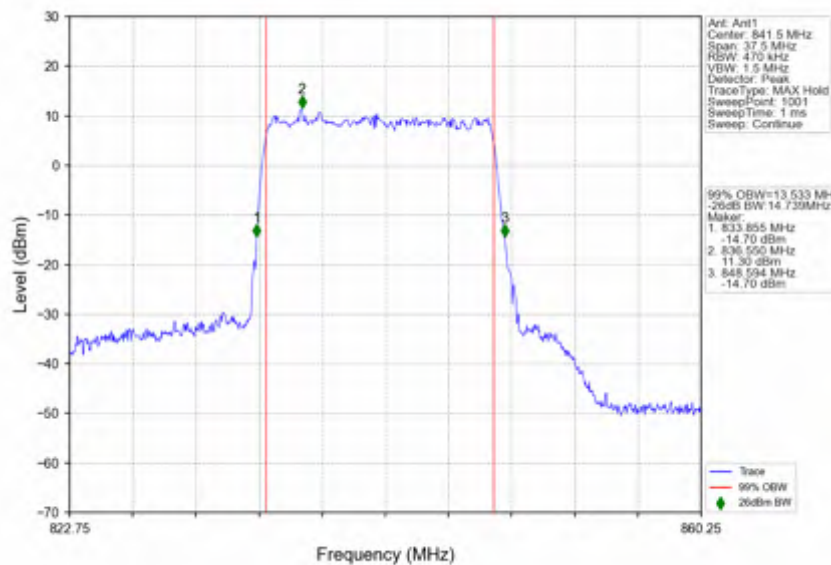
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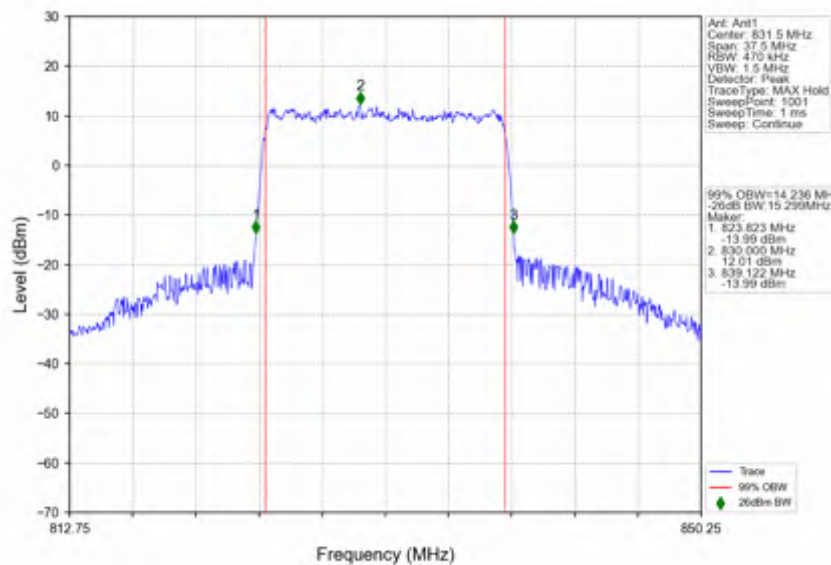
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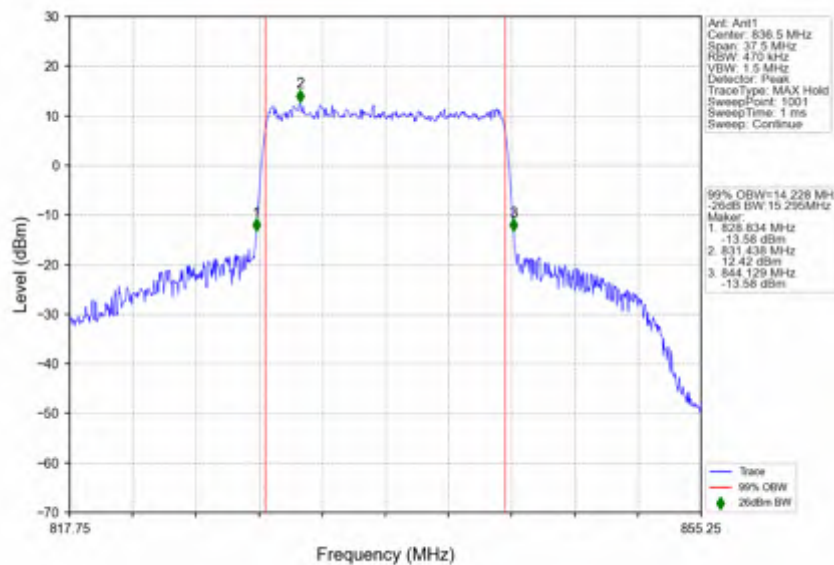


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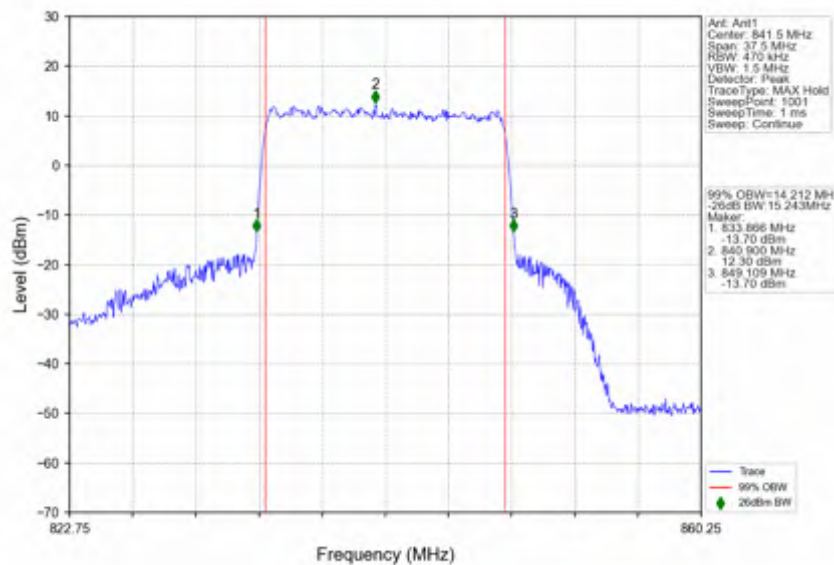
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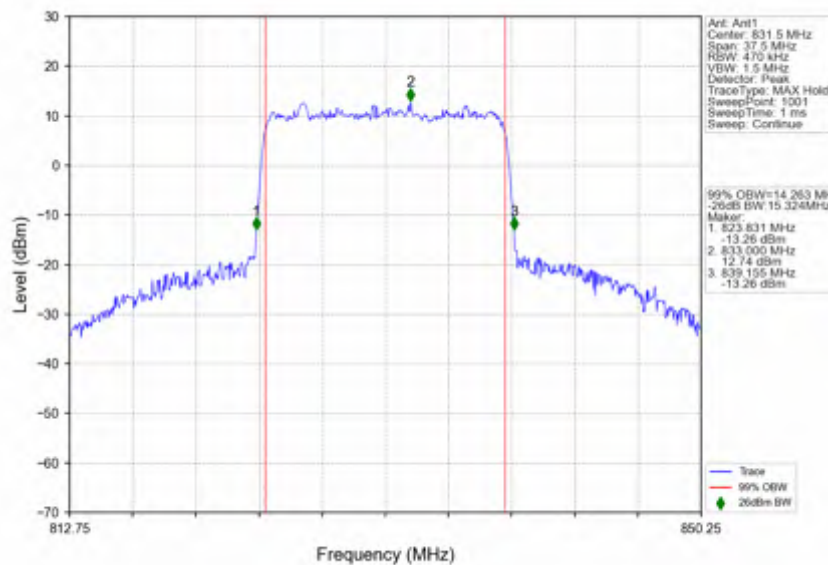
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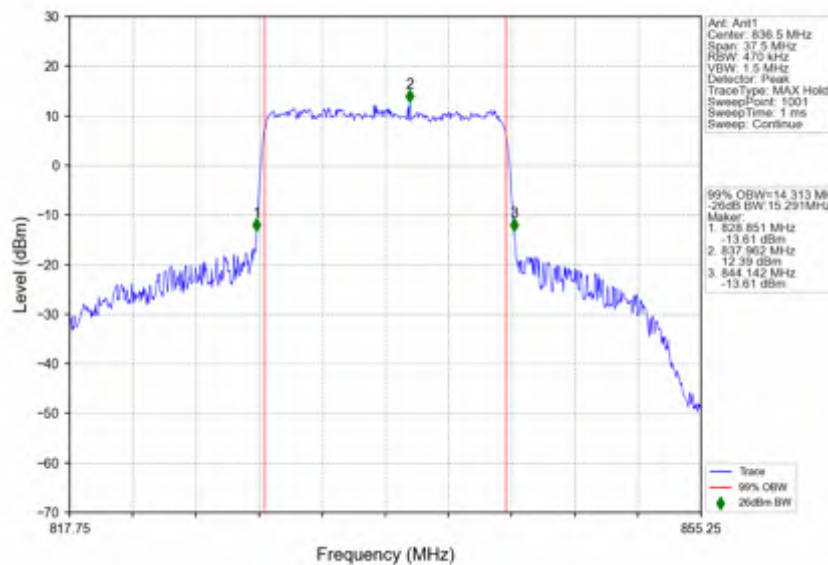
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n5\_15kHz\_SISO\_NTNV\_15MHz\_CP-OFDM\_16 QAM\_831.5MHz\_Outer\_Full



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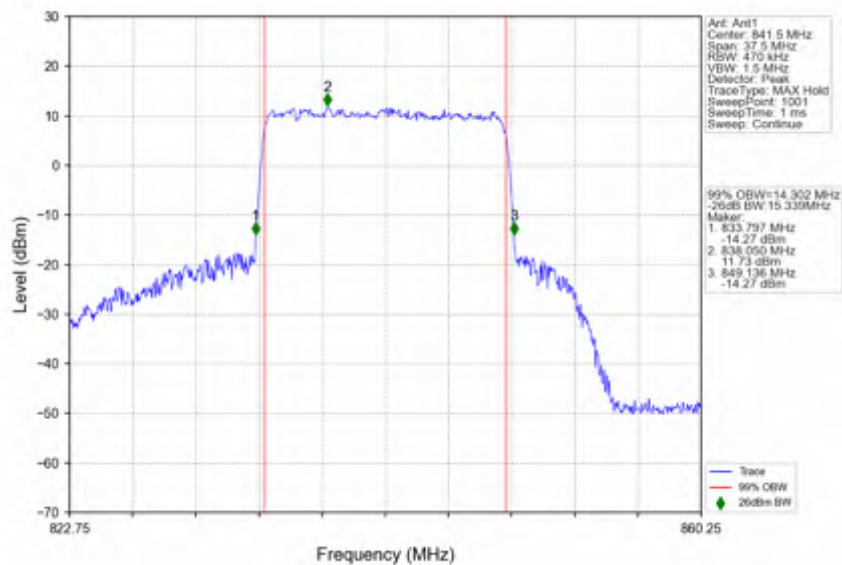
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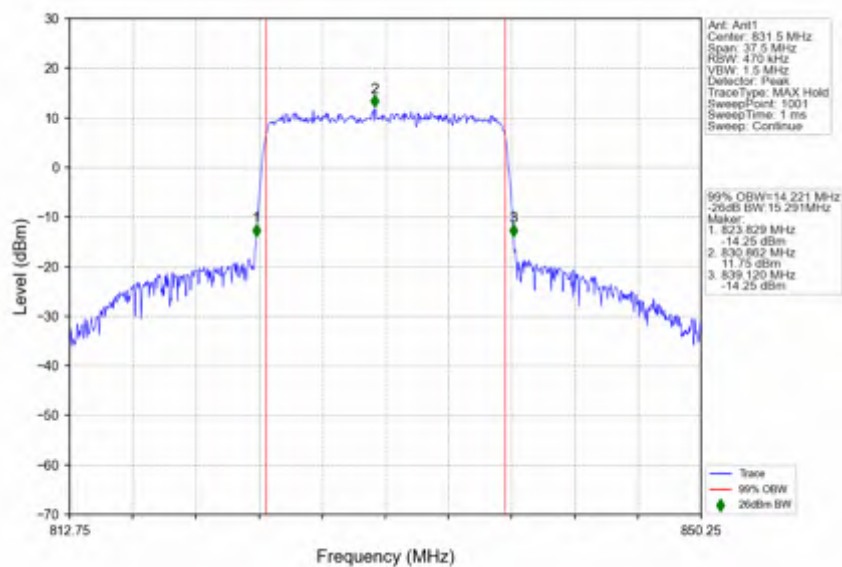
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n5\_15kHz\_SISO\_NTNV\_15MHz\_CP-OFDM\_16\_QAM\_841.5MHz\_Outer\_Full



n5 15kHz SISO NTNV 15MHz CP-OFDM 64 QAM 831.5MHz Outer Full

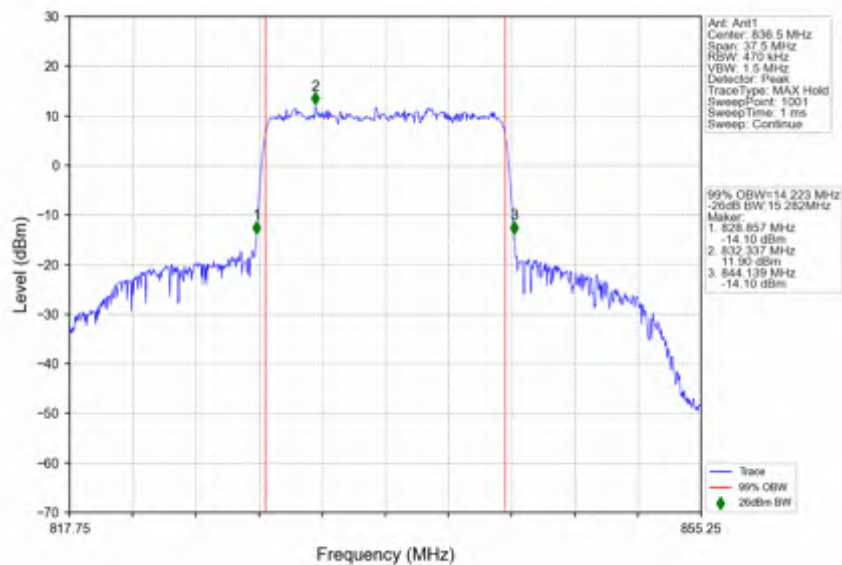


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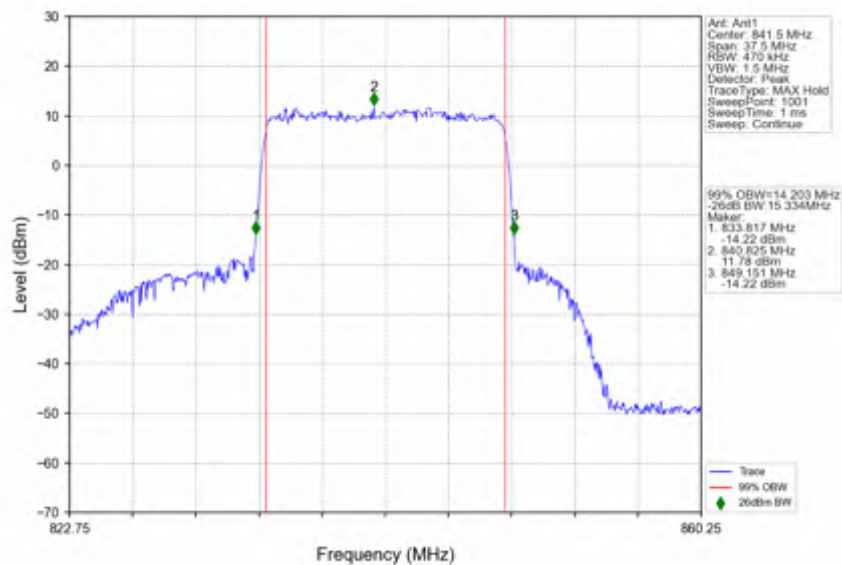
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n5\_15kHz\_SISO\_NTNV\_15MHz\_CP-OFDM 64 QAM\_836.5MHz\_Outer\_Full



n5\_15kHz\_SISO\_NTNV\_15MHz\_CP-OFDM 64 QAM\_841.5MHz\_Outer\_Full



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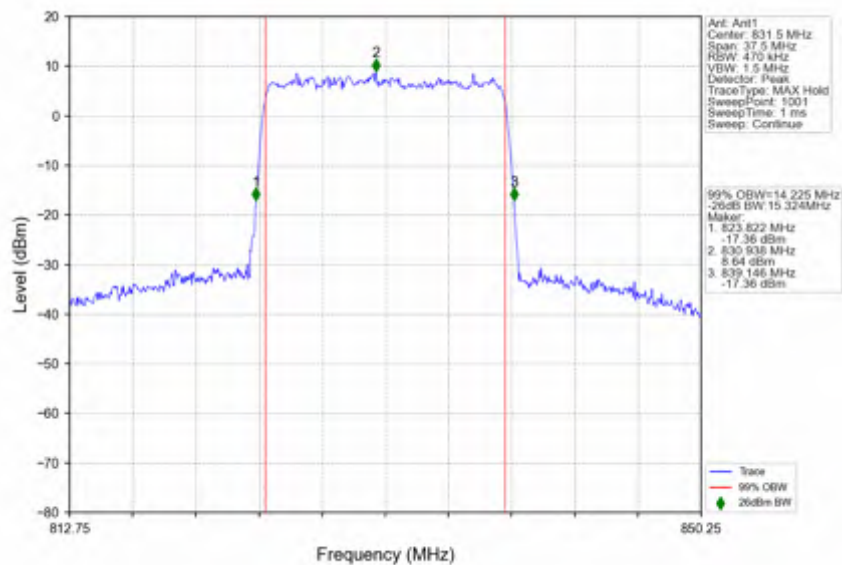
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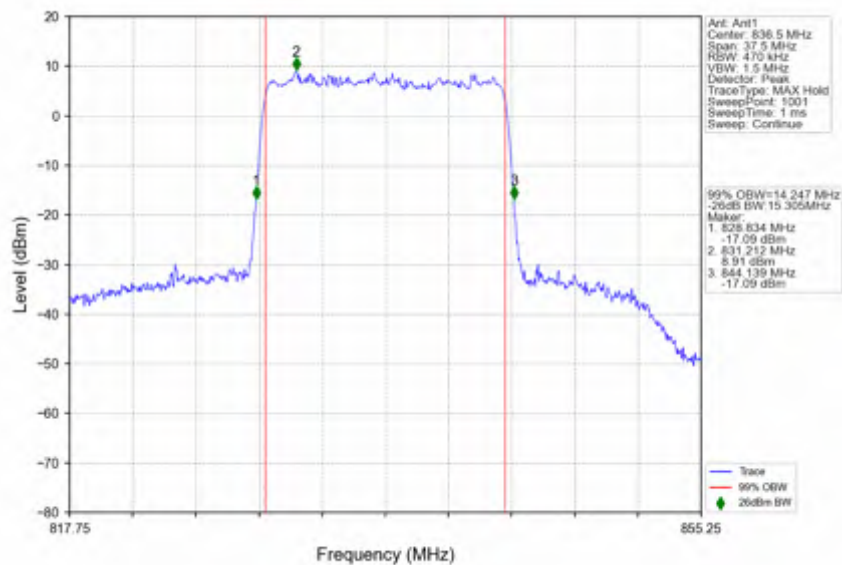
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n5\_15kHz\_SISO\_NTNV\_15MHz\_CP-OFDM\_256\_QAM\_831.5MHz\_Outer\_Full



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

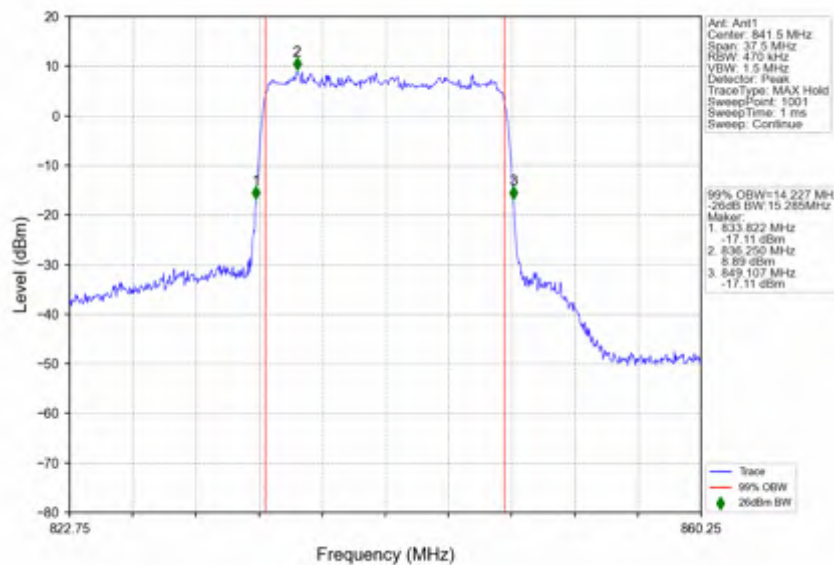


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n5\_15kHz\_SISO\_NTNV\_15MHz\_CP-OFDM\_256\_QAM\_841.5MHz\_Outer\_Full



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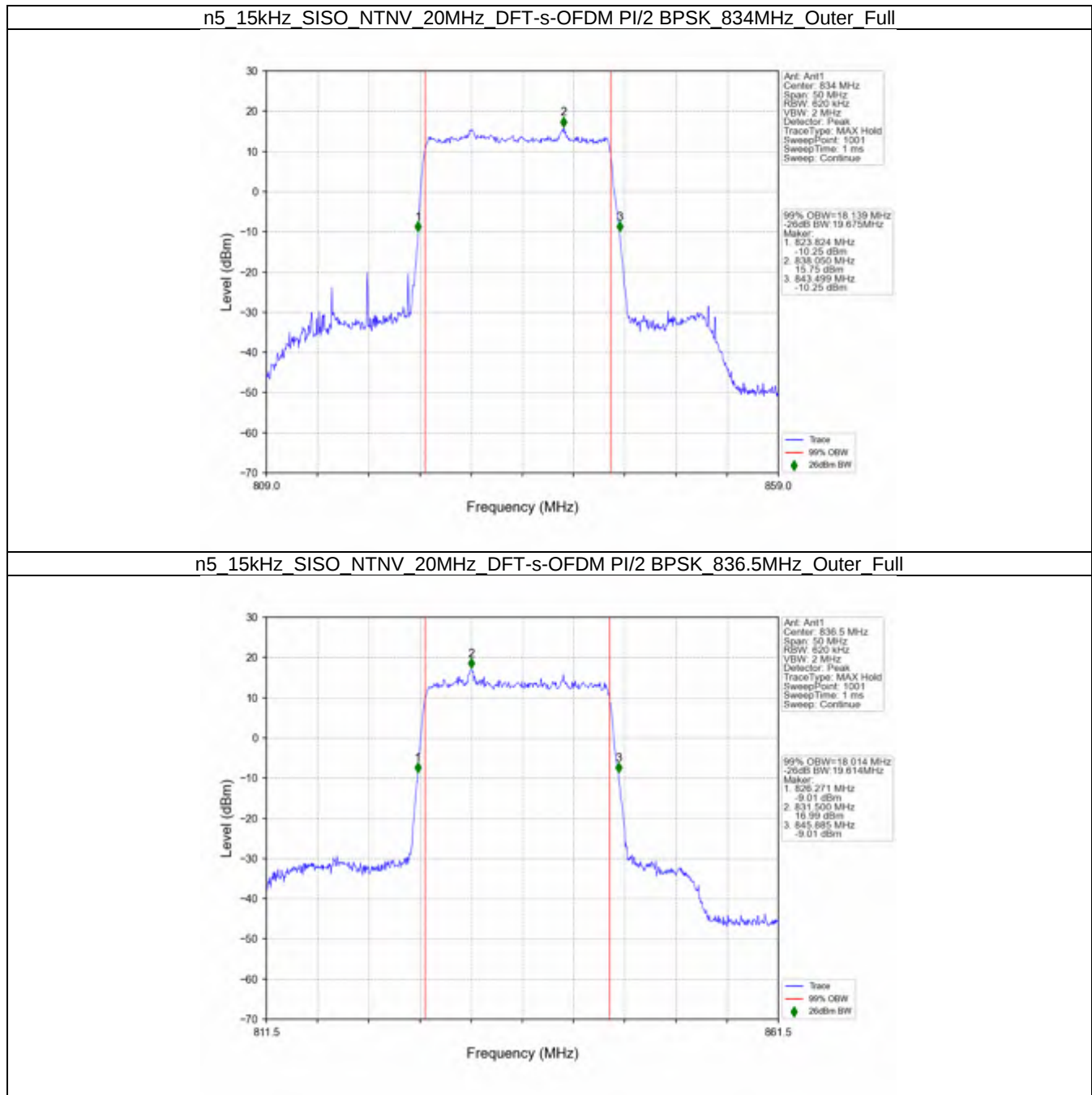
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## 2.4 15k\_SISO\_20MHz\_NTNV

### 2.4.1 Test Result

| 5G NR n5 SCS=15kHz SISO 20MHz NTN |                 |               |                     |                      |             |         |
|-----------------------------------|-----------------|---------------|---------------------|----------------------|-------------|---------|
| Modulation                        | Frequency (MHz) | RB Allocation | 99% Bandwidth (MHz) | 26dB Bandwidth (MHz) | Limit (MHz) | Verdict |
| DFT-s-OFDM PI/2 BPSK              | 834             | Outer_Full    | 18.14               | 19.68                | /           | Pass    |
|                                   | 836.5           | Outer_Full    | 18.01               | 19.61                | /           | Pass    |
|                                   | 839             | Outer_Full    | 18.02               | 19.57                | /           | Pass    |
| DFT-s-OFDM QPSK                   | 834             | Outer_Full    | 18.22               | 19.91                | /           | Pass    |
|                                   | 836.5           | Outer_Full    | 18.06               | 19.73                | /           | Pass    |
|                                   | 839             | Outer_Full    | 18.01               | 19.76                | /           | Pass    |
| DFT-s-OFDM 16 QAM                 | 834             | Outer_Full    | 18.11               | 19.76                | /           | Pass    |
|                                   | 836.5           | Outer_Full    | 18.10               | 19.73                | /           | Pass    |
|                                   | 839             | Outer_Full    | 18.08               | 19.84                | /           | Pass    |
| DFT-s-OFDM 64 QAM                 | 834             | Outer_Full    | 18.03               | 19.81                | /           | Pass    |
|                                   | 836.5           | Outer_Full    | 18.01               | 19.76                | /           | Pass    |
|                                   | 839             | Outer_Full    | 18.05               | 19.65                | /           | Pass    |
| DFT-s-OFDM 256 QAM                | 834             | Outer_Full    | 18.03               | 19.65                | /           | Pass    |
|                                   | 836.5           | Outer_Full    | 18.03               | 19.58                | /           | Pass    |
|                                   | 839             | Outer_Full    | 18.03               | 19.61                | /           | Pass    |
| CP-OFDM QPSK                      | 834             | Outer_Full    | 19.09               | 20.59                | /           | Pass    |
|                                   | 836.5           | Outer_Full    | 19.07               | 20.69                | /           | Pass    |
|                                   | 839             | Outer_Full    | 19.13               | 20.59                | /           | Pass    |
| CP-OFDM 16 QAM                    | 834             | Outer_Full    | 19.15               | 20.61                | /           | Pass    |
|                                   | 836.5           | Outer_Full    | 19.10               | 20.67                | /           | Pass    |
|                                   | 839             | Outer_Full    | 19.06               | 20.61                | /           | Pass    |
| CP-OFDM 64 QAM                    | 834             | Outer_Full    | 19.10               | 20.67                | /           | Pass    |
|                                   | 836.5           | Outer_Full    | 19.07               | 20.66                | /           | Pass    |
|                                   | 839             | Outer_Full    | 19.11               | 20.61                | /           | Pass    |
| CP-OFDM 256 QAM                   | 834             | Outer_Full    | 19.06               | 20.60                | /           | Pass    |
|                                   | 836.5           | Outer_Full    | 19.05               | 20.77                | /           | Pass    |
|                                   | 839             | Outer_Full    | 19.05               | 20.72                | /           | Pass    |

## 2.4.2 Test Graph



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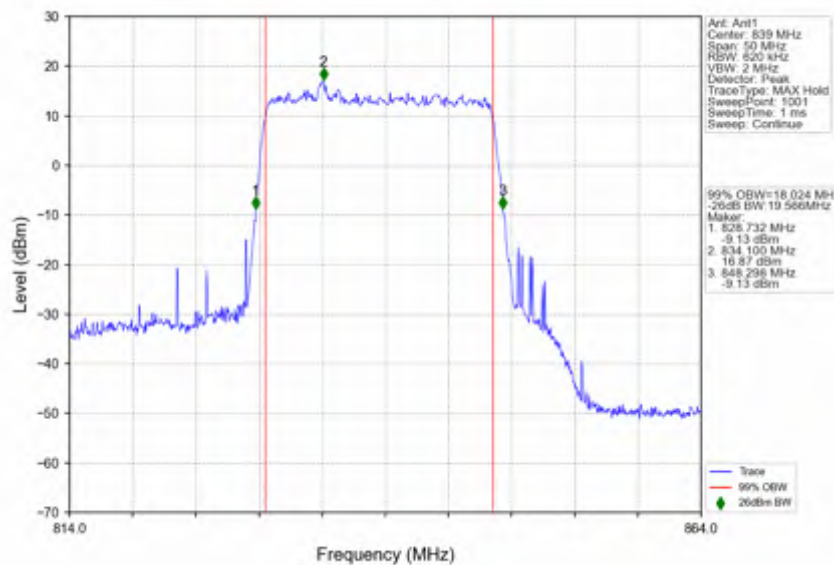
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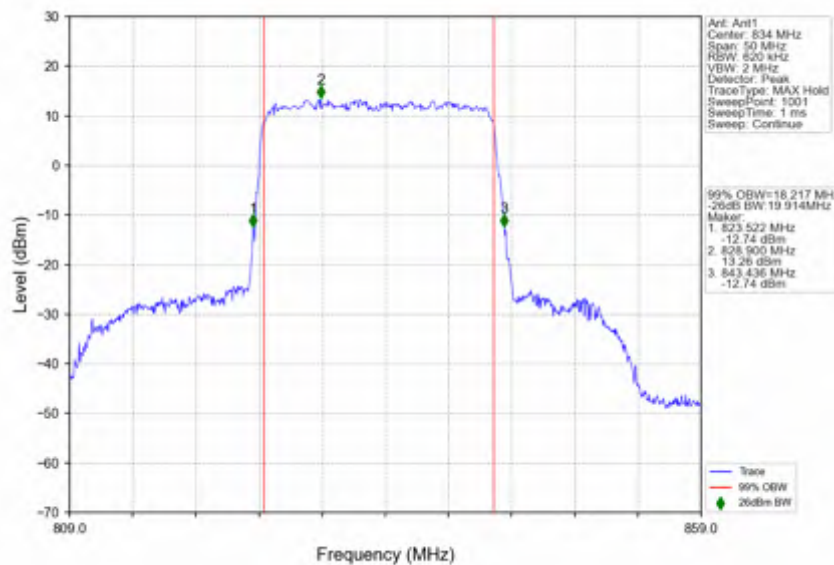
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n5\_15kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM\_PI/2\_BPSK\_839MHz\_Outer\_Full



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

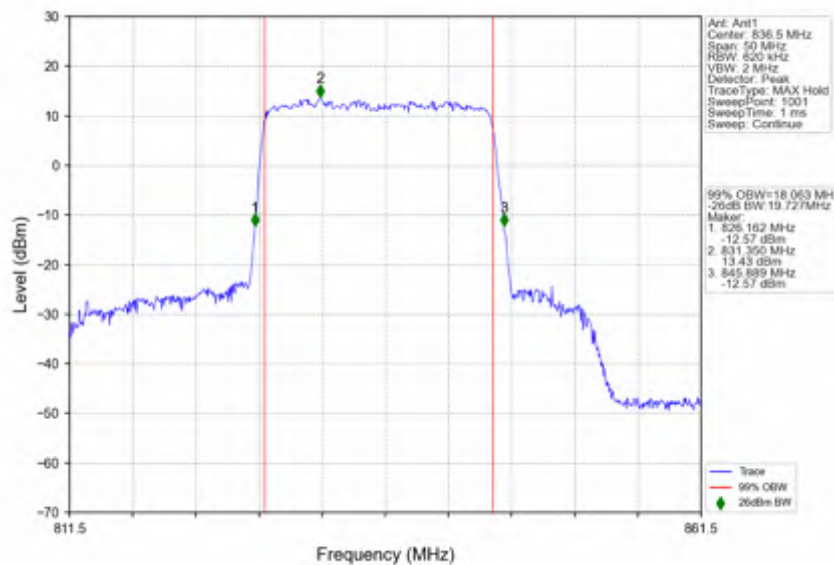


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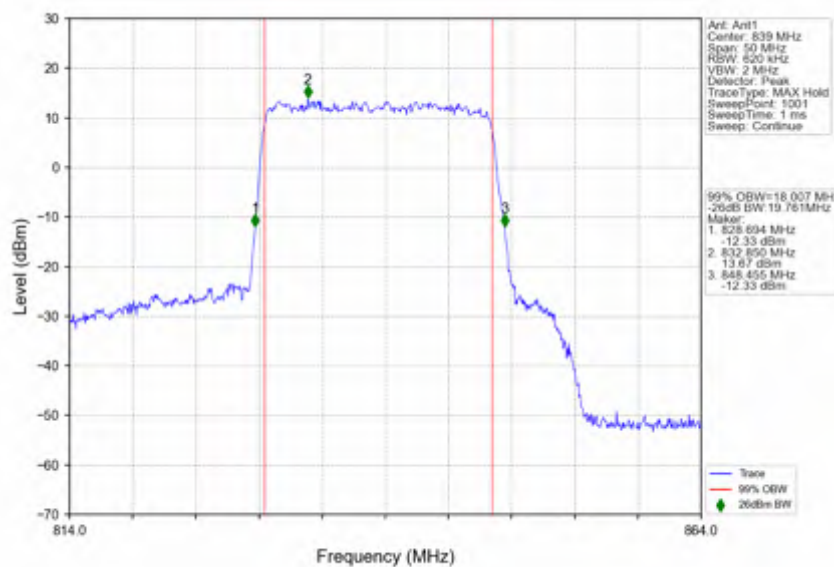
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n5\_15kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM\_QPSK\_836.5MHz\_Outer\_Full



n5 15kHz SISO NTN 20MHz DFT-s-OFDM QPSK 839MHz Outer Full

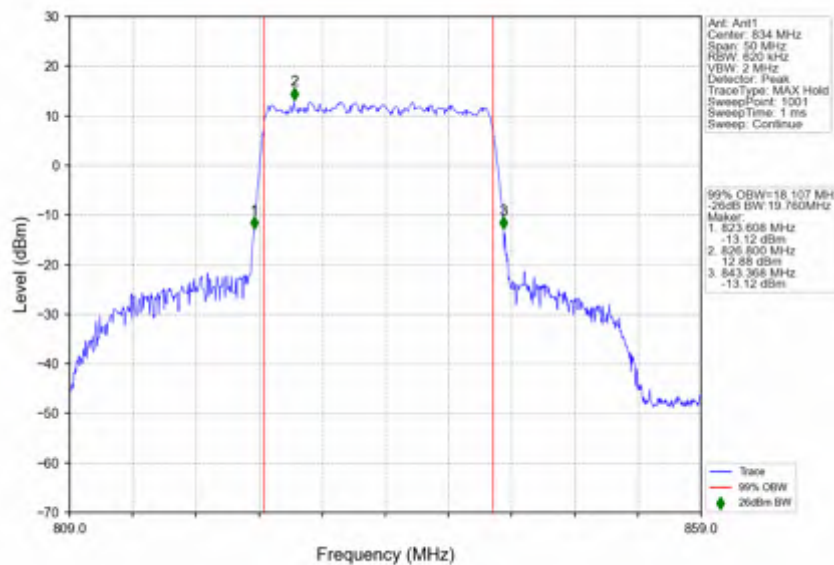


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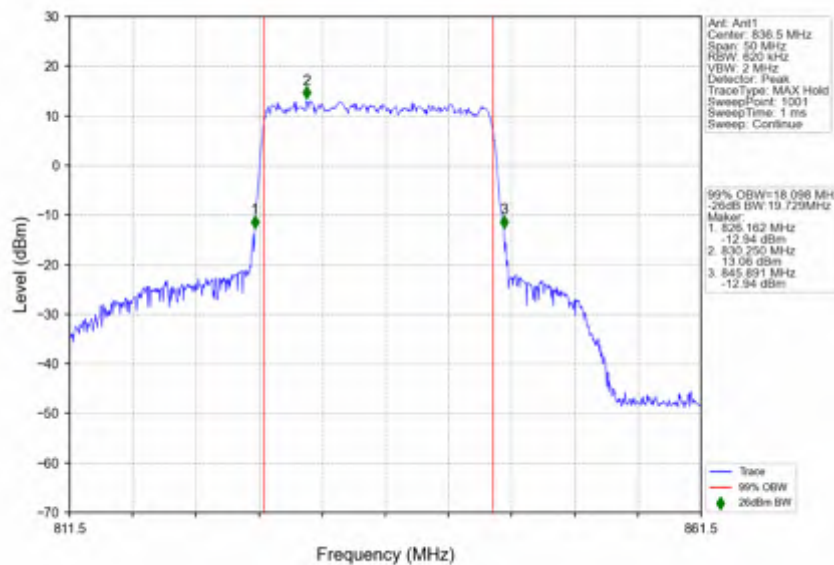
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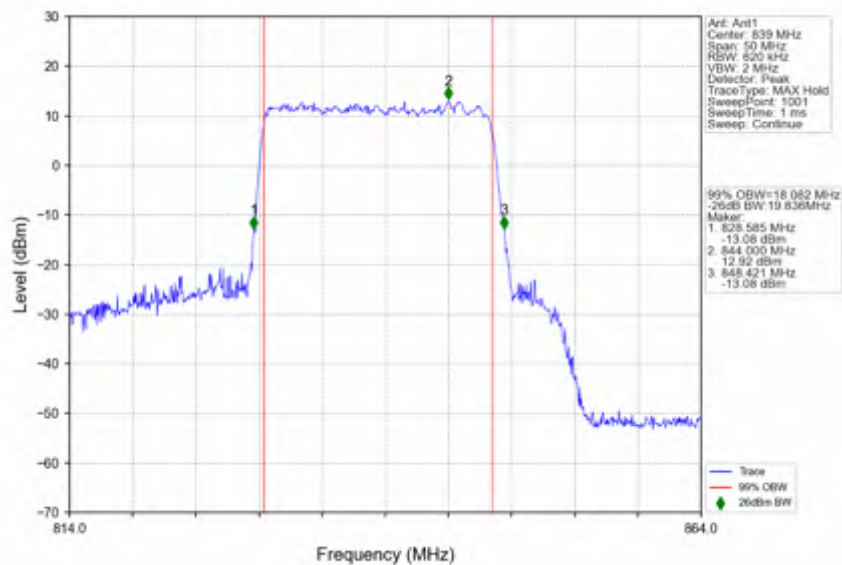
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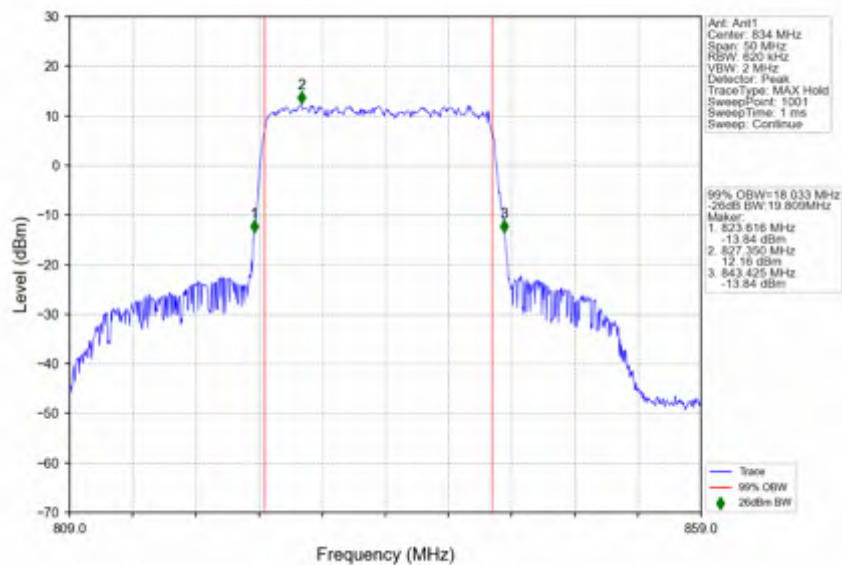
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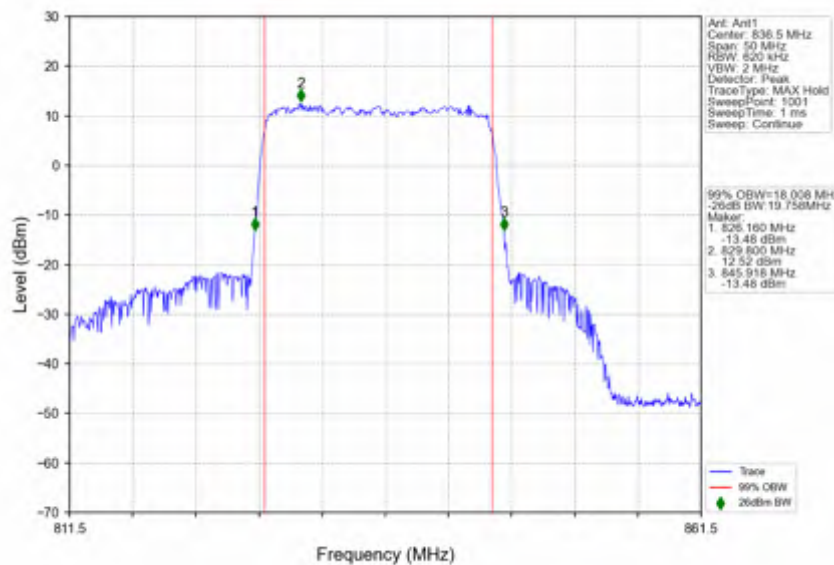


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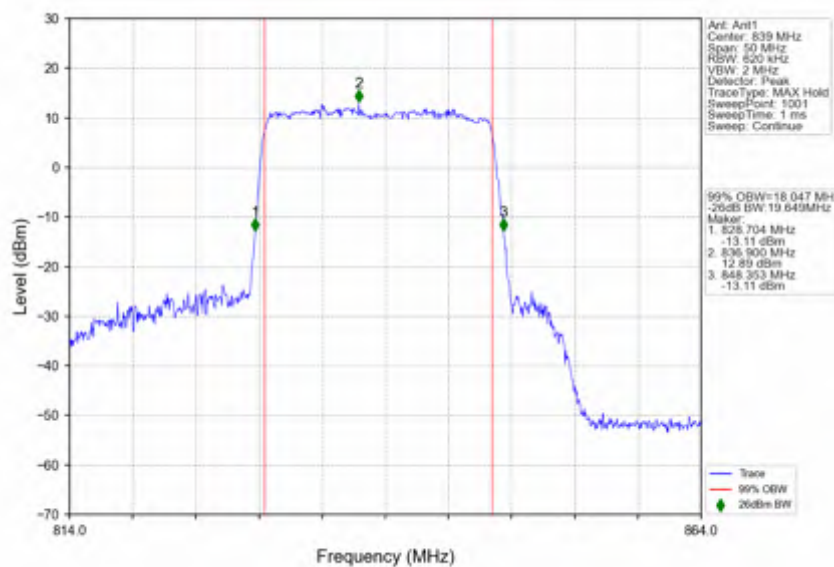
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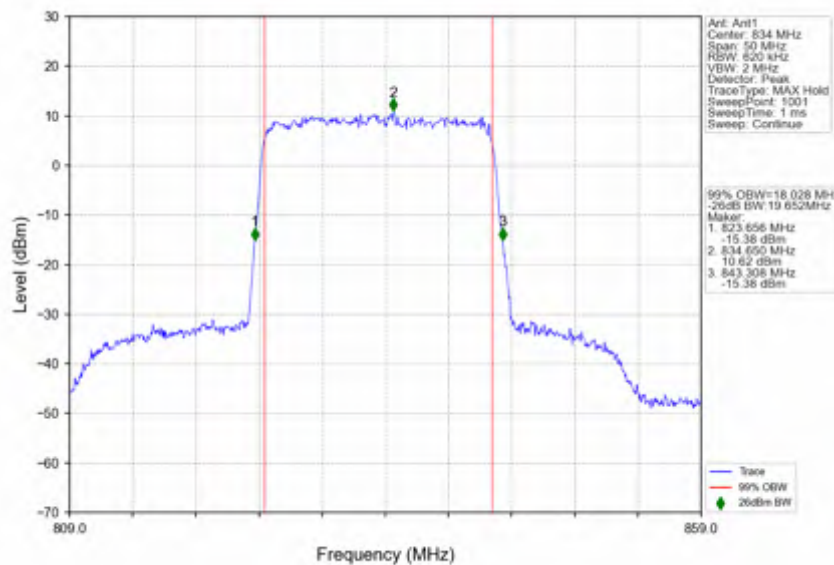


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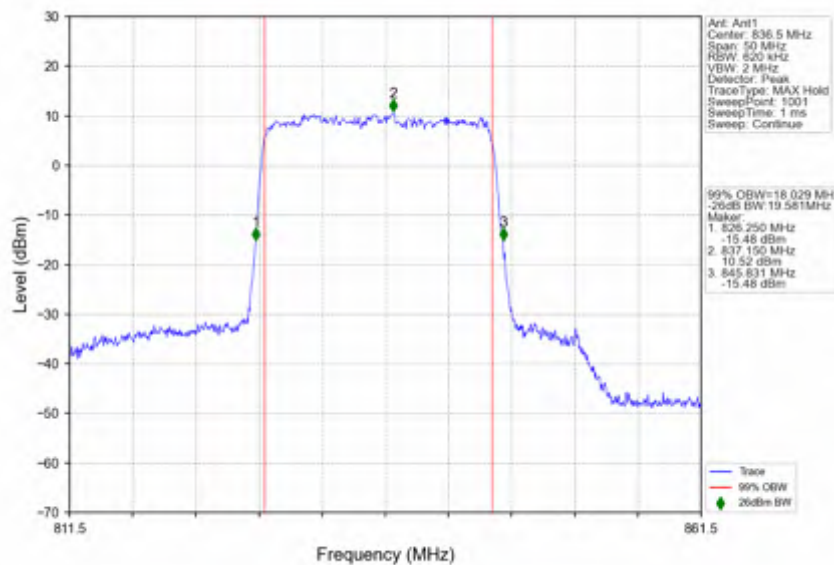
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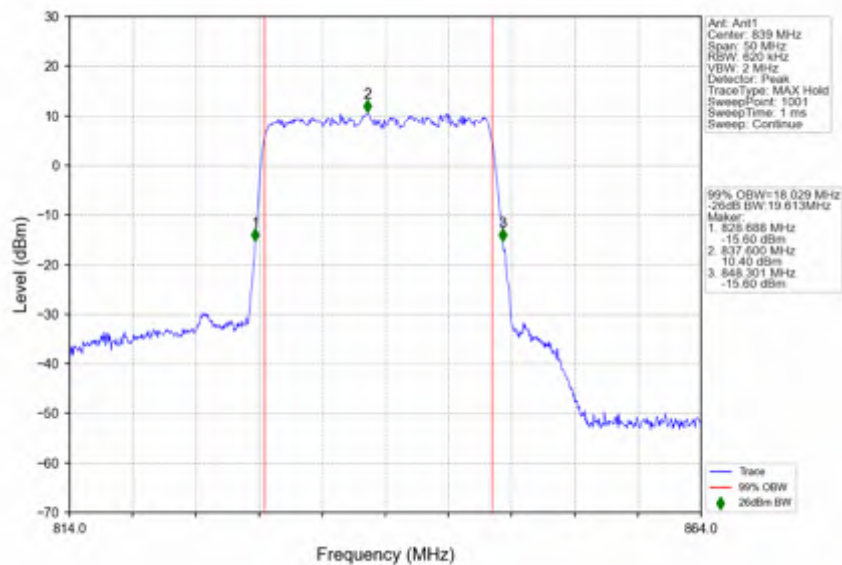
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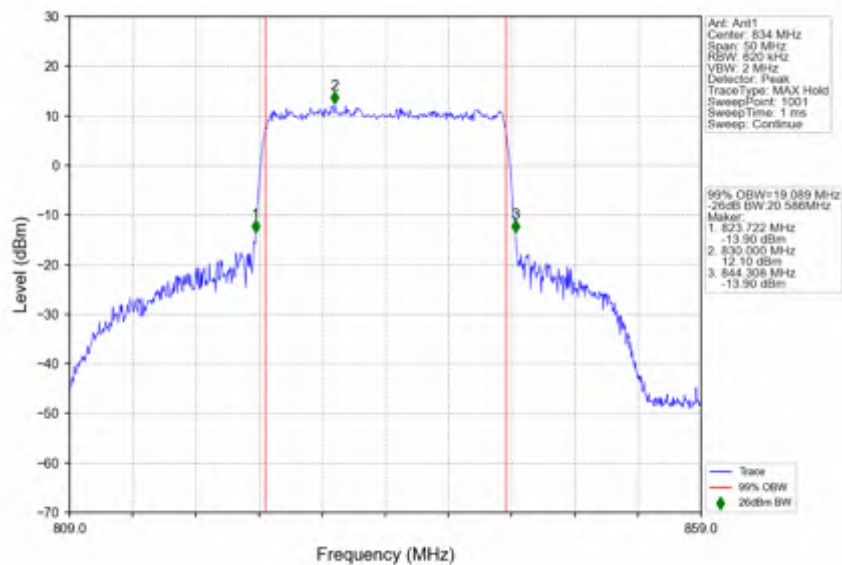
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n5\_15kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM 256 QAM\_839MHz\_Outer\_Full



n5\_15kHz\_SISO\_NTNV\_20MHz\_CP-OFDM QPSK\_834MHz\_Outer\_Full



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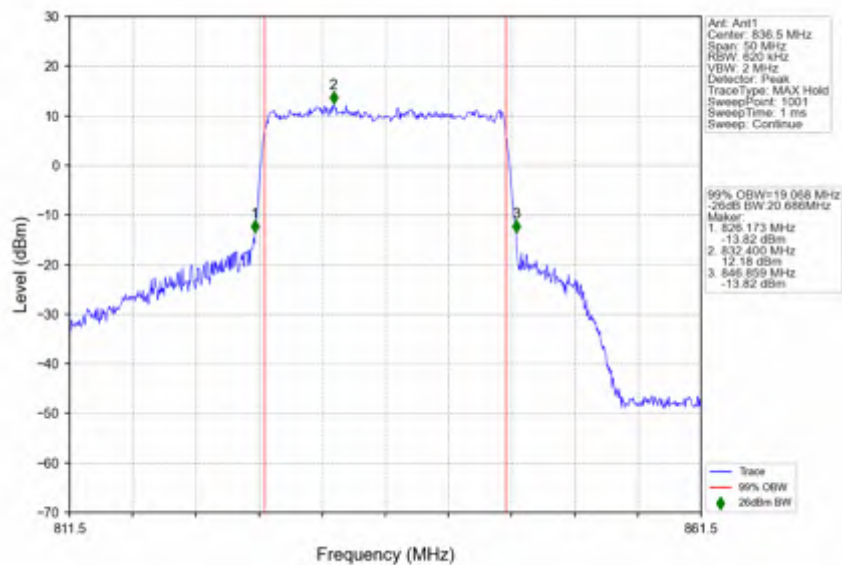
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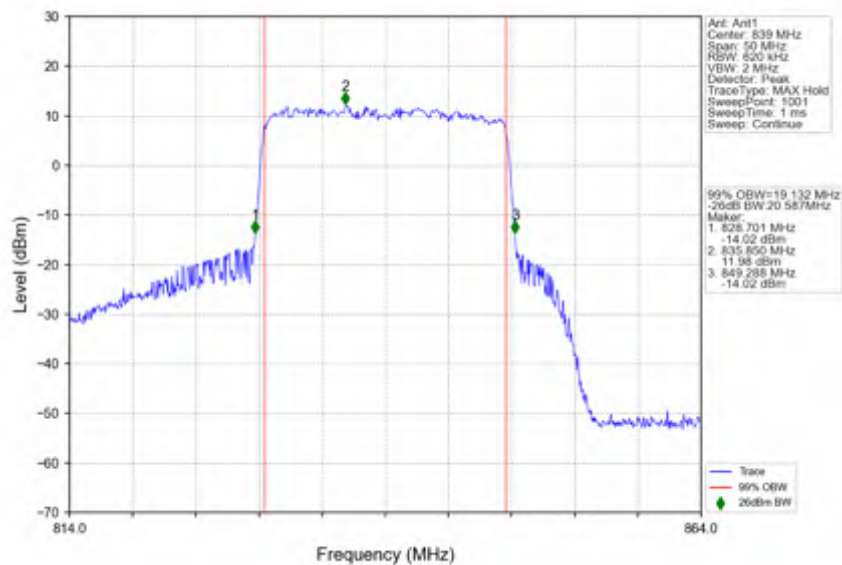
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n5\_15kHz\_SISO\_NTNV\_20MHz\_CP-OFDM QPSK\_836.5MHz\_Outer\_Full



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



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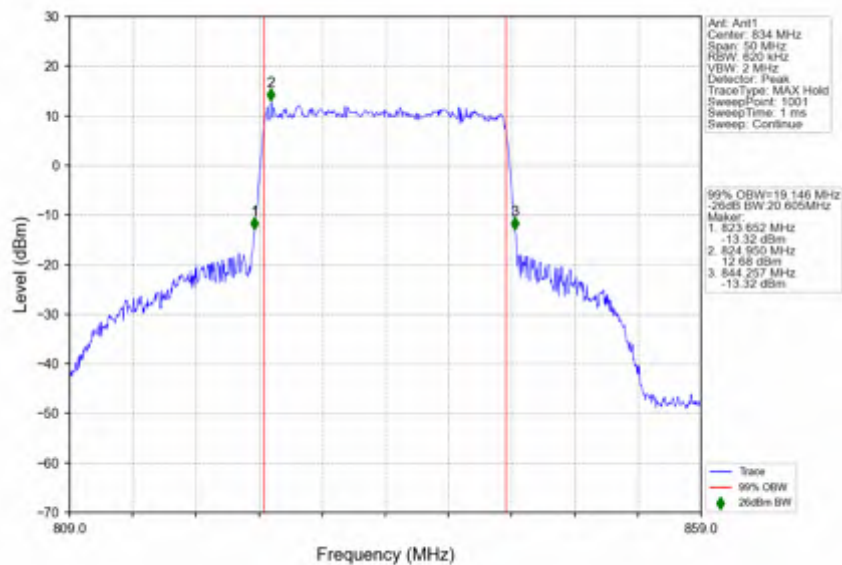
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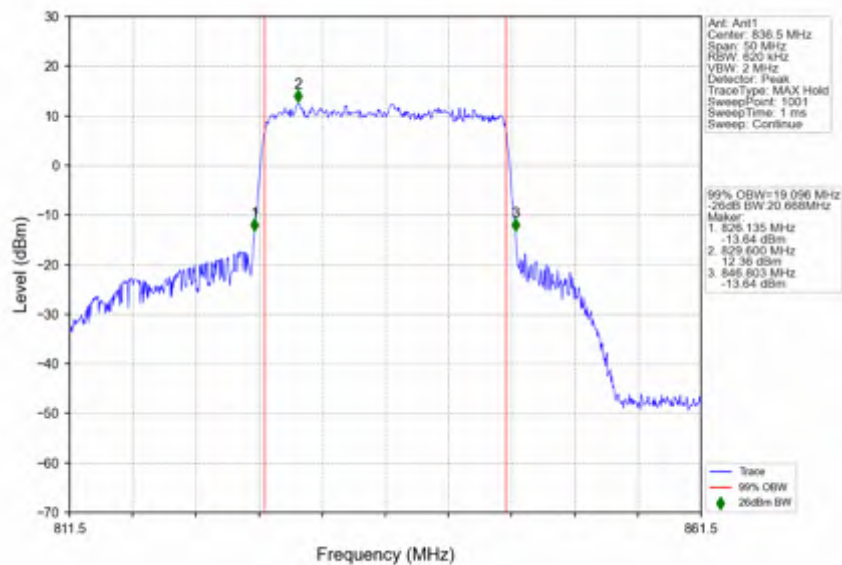
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n5\_15kHz\_SISO\_NTNV\_20MHz\_CP-OFDM 16 QAM\_834MHz\_Outer\_Full



n5\_15kHz\_SISO\_NTNV\_20MHz\_CP-OFDM 16 QAM\_836.5MHz\_Outer\_Full



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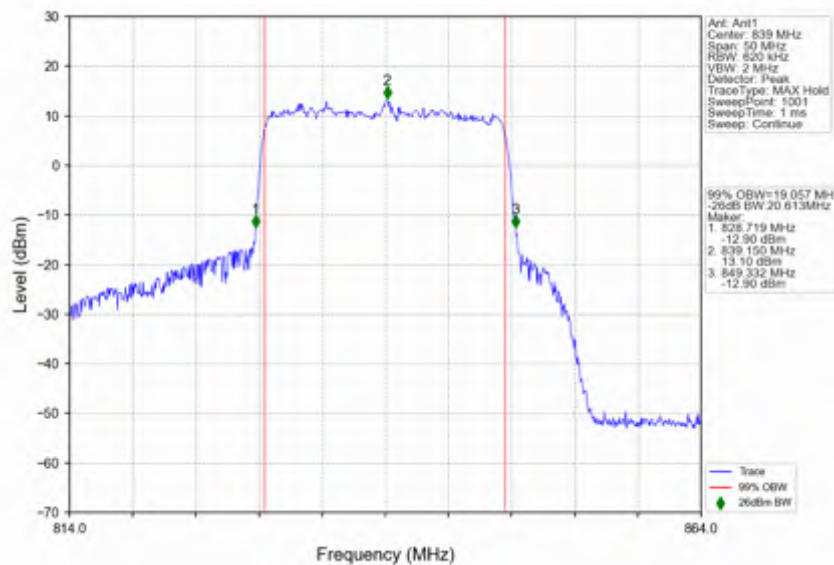
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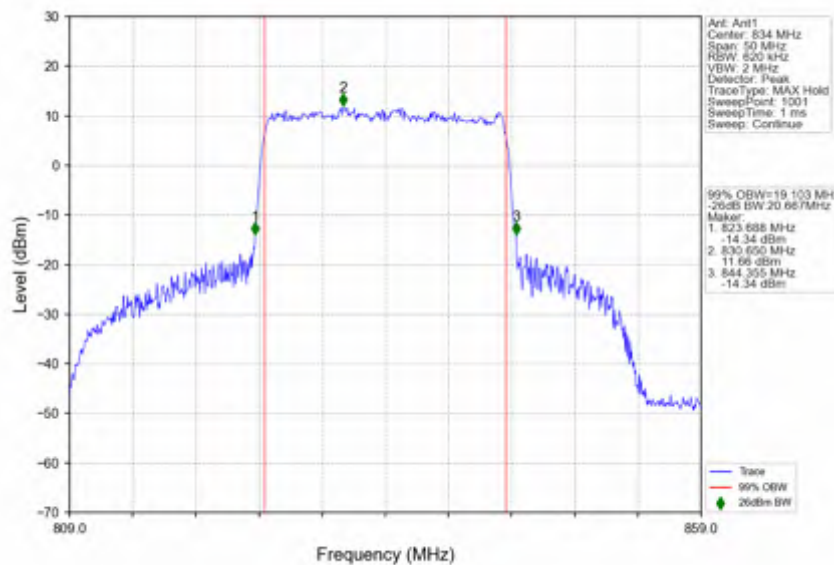
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n5\_15kHz\_SISO\_NTNV\_20MHz\_CP-OFDM 16 QAM\_839MHz\_Outer\_Full



n5\_15kHz\_SISO\_NTNV\_20MHz\_CP-OFDM 64 QAM\_834MHz\_Outer\_Full



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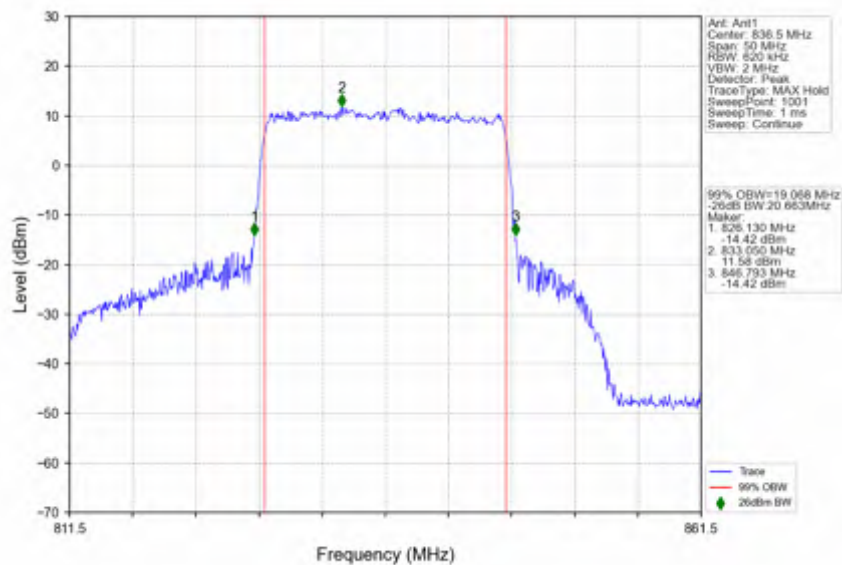
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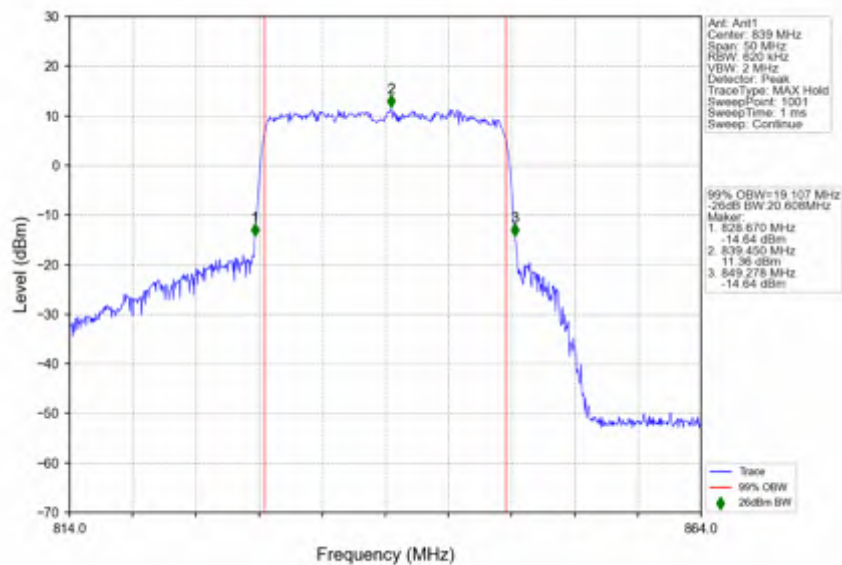
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n5\_15kHz\_SISO\_NTNV\_20MHz\_CP-OFDM 64 QAM\_836.5MHz\_Outer\_Full



n5\_15kHz\_SISO\_NTNV\_20MHz\_CP-OFDM 64 QAM\_839MHz\_Outer\_Full



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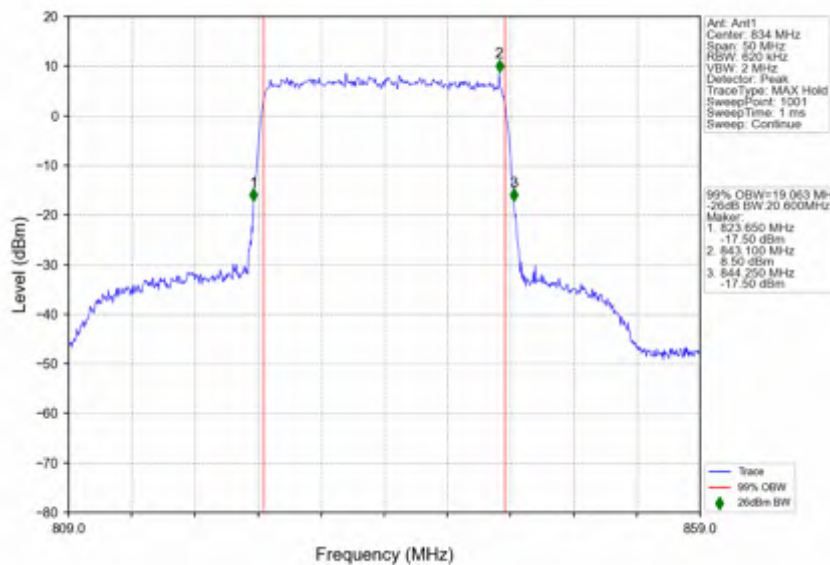
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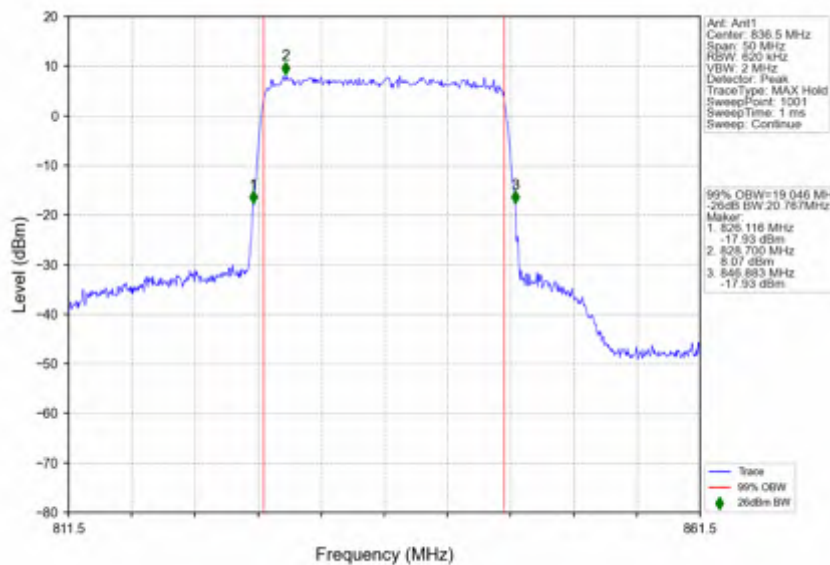
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n5\_15kHz\_SISO\_NTNV\_20MHz\_CP-OFDM 256 QAM\_834MHz\_Outer\_Full



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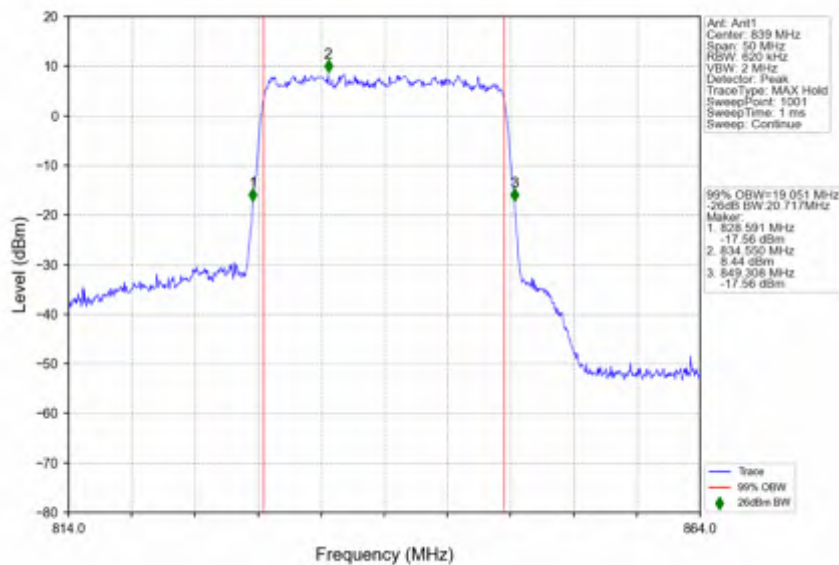
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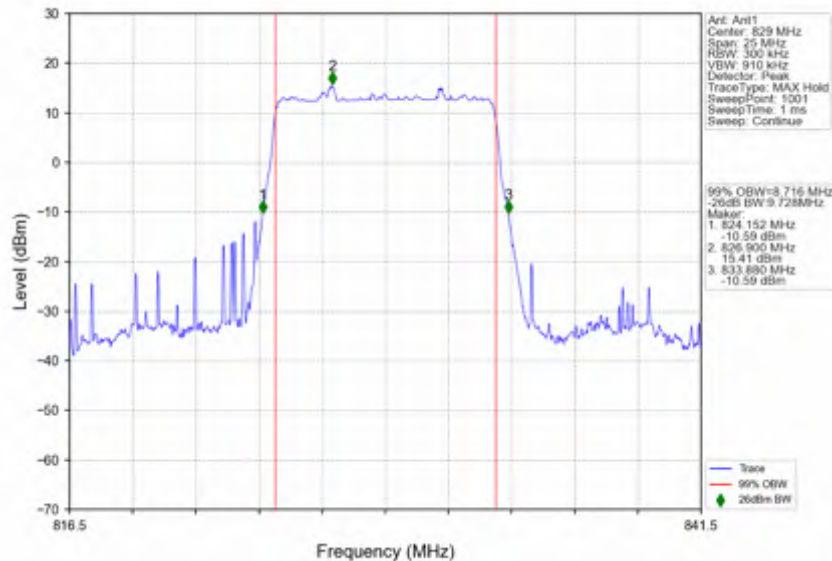
## 2.5 30k\_SISO\_10MHz\_NTNV

### 2.5.1 Test Result

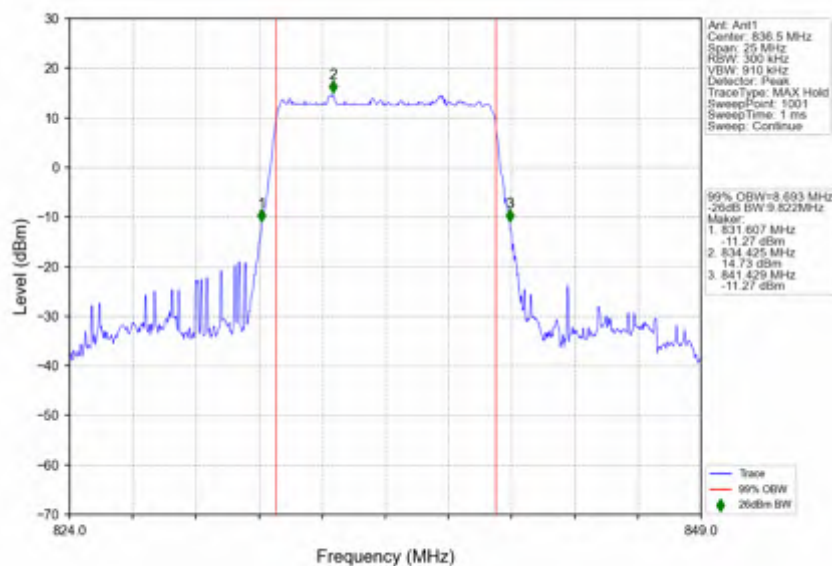
| 5G NR n5 SCS=30kHz SISO 10MHz NTN |                 |               |                     |                      |             |         |
|-----------------------------------|-----------------|---------------|---------------------|----------------------|-------------|---------|
| Modulation                        | Frequency (MHz) | RB Allocation | 99% Bandwidth (MHz) | 26dB Bandwidth (MHz) | Limit (MHz) | Verdict |
| DFT-s-OFDM PI/2 BPSK              | 829             | Outer_Full    | 8.72                | 9.73                 | /           | Pass    |
|                                   | 836.5           | Outer_Full    | 8.69                | 9.82                 | /           | Pass    |
|                                   | 844             | Outer_Full    | 8.75                | 9.80                 | /           | Pass    |
| DFT-s-OFDM QPSK                   | 829             | Outer_Full    | 8.70                | 9.84                 | /           | Pass    |
|                                   | 836.5           | Outer_Full    | 8.70                | 9.79                 | /           | Pass    |
|                                   | 844             | Outer_Full    | 8.68                | 9.84                 | /           | Pass    |
| DFT-s-OFDM 16 QAM                 | 829             | Outer_Full    | 8.69                | 9.76                 | /           | Pass    |
|                                   | 836.5           | Outer_Full    | 8.71                | 9.82                 | /           | Pass    |
|                                   | 844             | Outer_Full    | 8.69                | 9.68                 | /           | Pass    |
| DFT-s-OFDM 64 QAM                 | 829             | Outer_Full    | 8.71                | 9.74                 | /           | Pass    |
|                                   | 836.5           | Outer_Full    | 8.74                | 9.89                 | /           | Pass    |
|                                   | 844             | Outer_Full    | 8.70                | 9.78                 | /           | Pass    |
| DFT-s-OFDM 256 QAM                | 829             | Outer_Full    | 8.71                | 9.72                 | /           | Pass    |
|                                   | 836.5           | Outer_Full    | 8.71                | 9.73                 | /           | Pass    |
|                                   | 844             | Outer_Full    | 8.70                | 9.74                 | /           | Pass    |
| CP-OFDM QPSK                      | 829             | Outer_Full    | 8.69                | 9.81                 | /           | Pass    |
|                                   | 836.5           | Outer_Full    | 8.72                | 9.87                 | /           | Pass    |
|                                   | 844             | Outer_Full    | 8.68                | 9.85                 | /           | Pass    |
| CP-OFDM 16 QAM                    | 829             | Outer_Full    | 8.71                | 9.81                 | /           | Pass    |
|                                   | 836.5           | Outer_Full    | 8.69                | 9.82                 | /           | Pass    |
|                                   | 844             | Outer_Full    | 8.69                | 9.77                 | /           | Pass    |
| CP-OFDM 64 QAM                    | 829             | Outer_Full    | 8.71                | 9.72                 | /           | Pass    |
|                                   | 836.5           | Outer_Full    | 8.70                | 9.73                 | /           | Pass    |
|                                   | 844             | Outer_Full    | 8.72                | 9.78                 | /           | Pass    |
| CP-OFDM 256 QAM                   | 829             | Outer_Full    | 8.71                | 11.29                | /           | Pass    |
|                                   | 836.5           | Outer_Full    | 8.74                | 9.77                 | /           | Pass    |
|                                   | 844             | Outer_Full    | 8.76                | 9.82                 | /           | Pass    |

## 2.5.2 Test Graph

n5\_30kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM\_PI/2\_BPSK\_829MHz\_Outer\_Full



n5\_30kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM\_PI/2\_BPSK\_836.5MHz\_Outer\_Full



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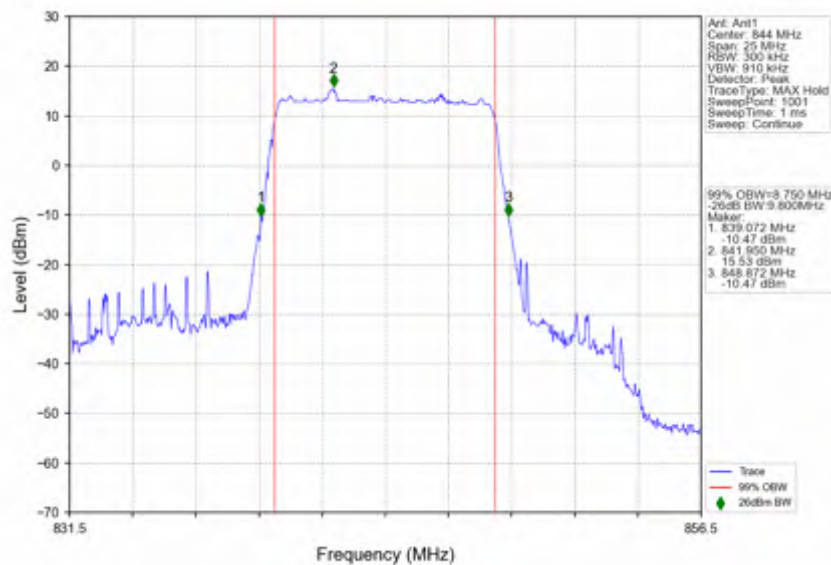
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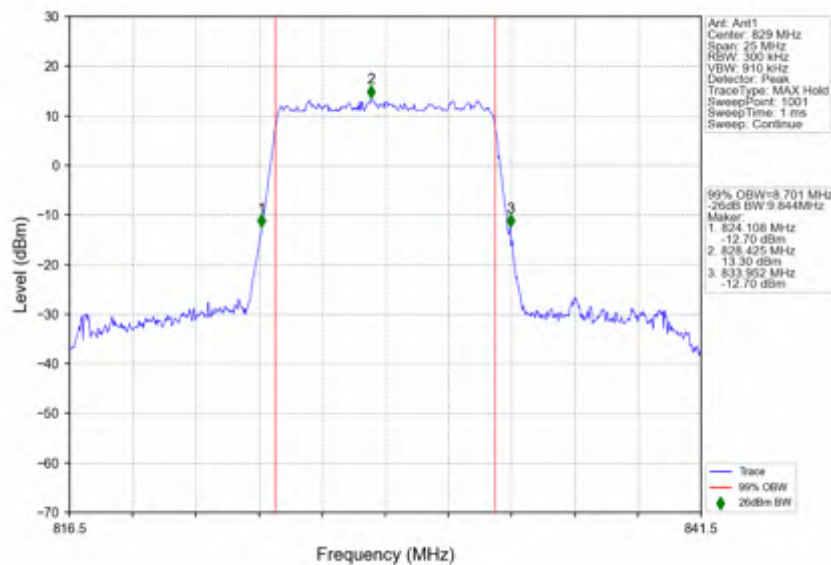
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n5\_30kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM PI/2 BPSK\_844MHz\_Outer\_Full



n5\_30kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM QPSK\_829MHz\_Outer\_Full



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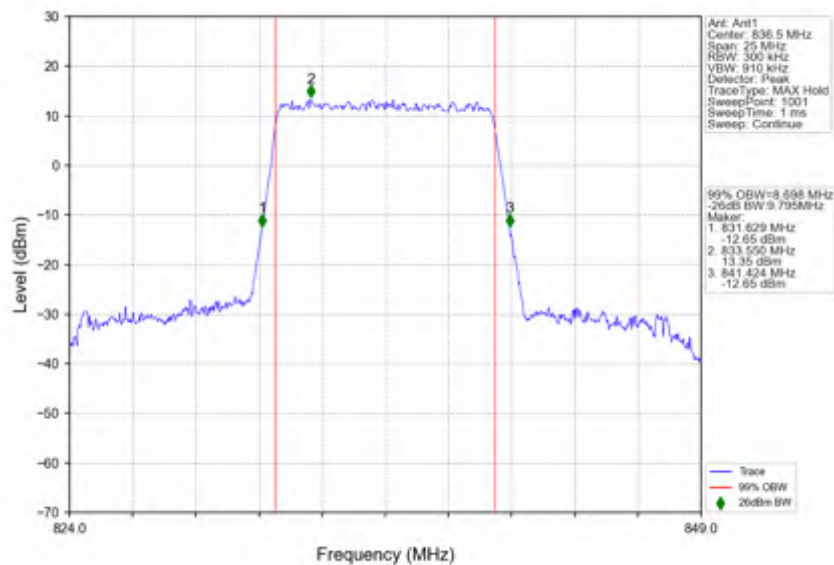
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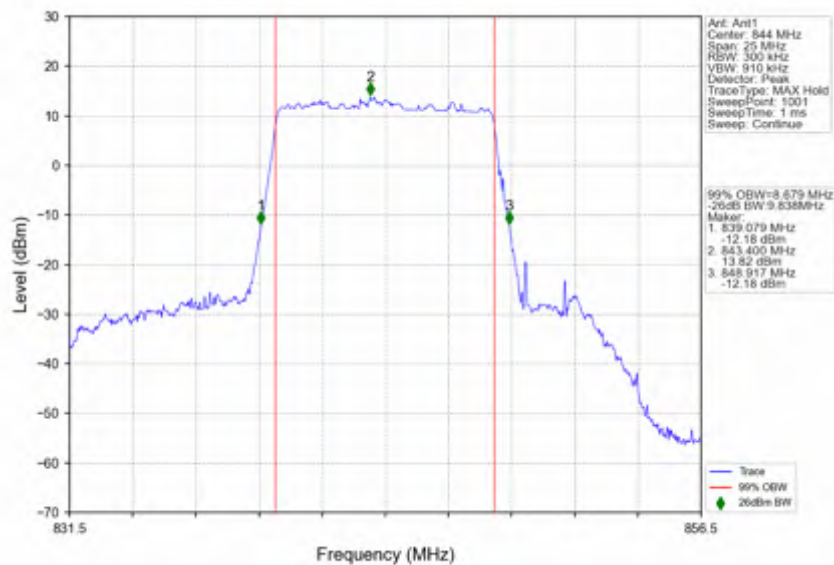
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n5\_30kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM QPSK\_836.5MHz\_Outer\_Full



n5\_30kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM QPSK\_844MHz\_Outer\_Full



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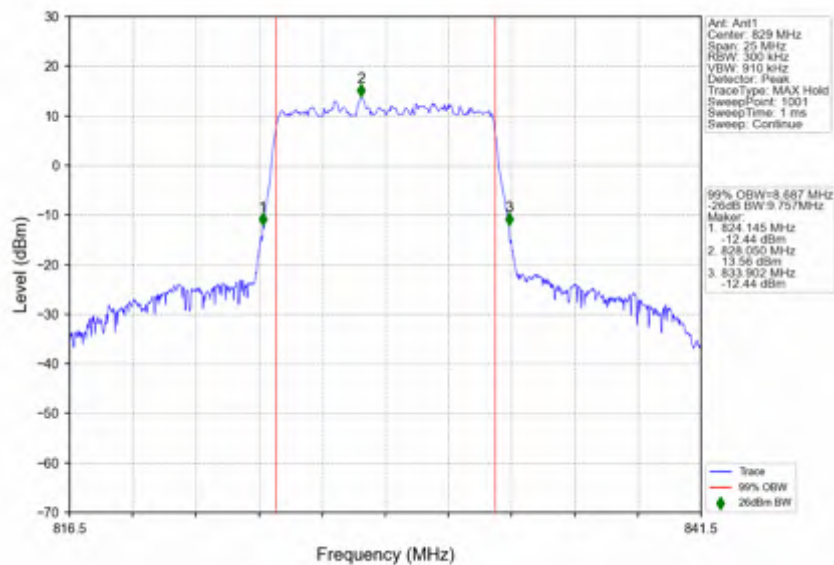
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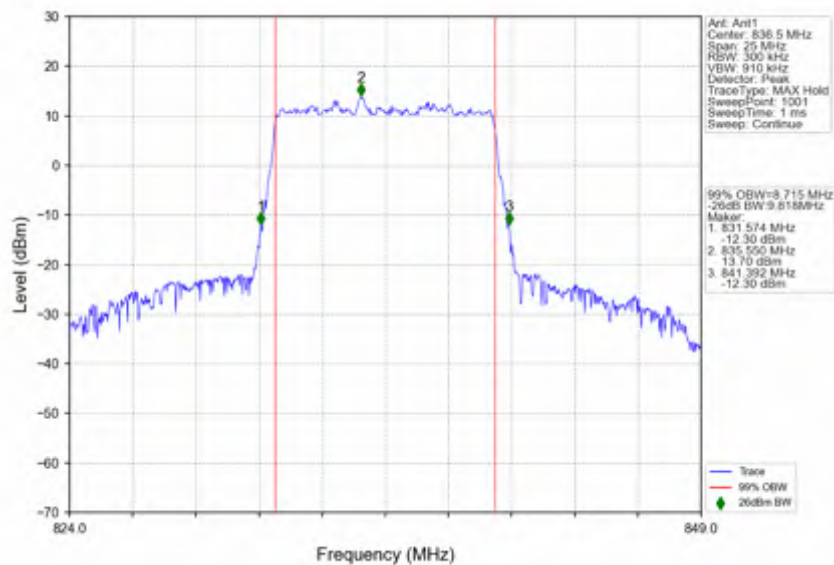
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n5\_30kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM\_16\_QAM\_829MHz\_Outer\_Full



n5\_30kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM\_16\_QAM\_836.5MHz\_Outer\_Full



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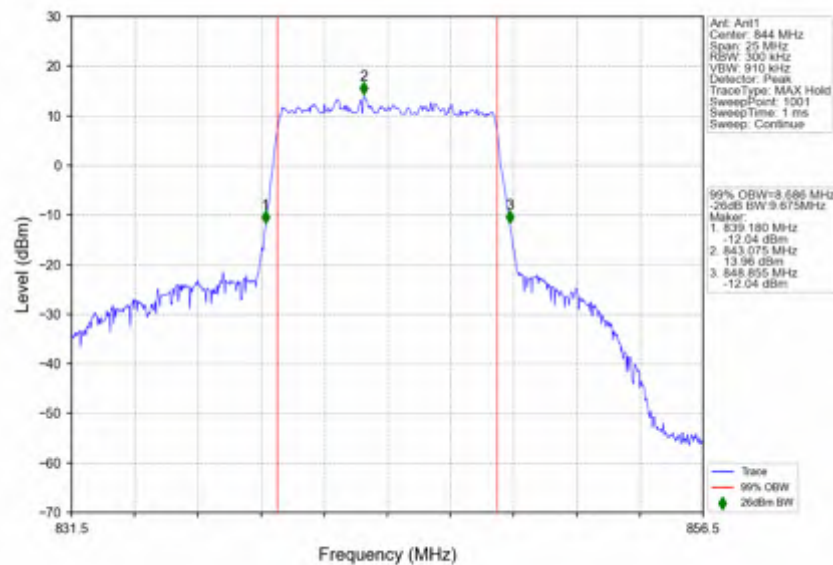
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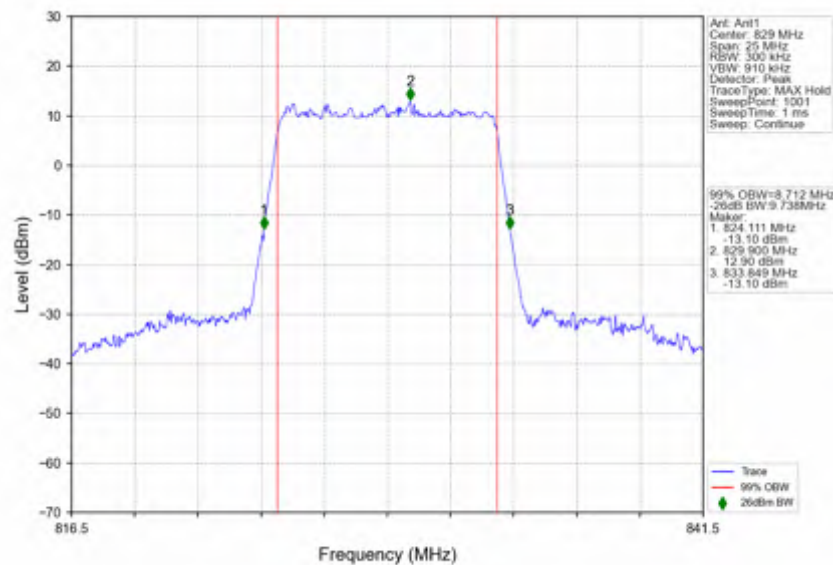
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n5\_30kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM\_16\_QAM\_844MHz\_Outer\_Full



n5\_30kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM\_64\_QAM\_829MHz\_Outer\_Full



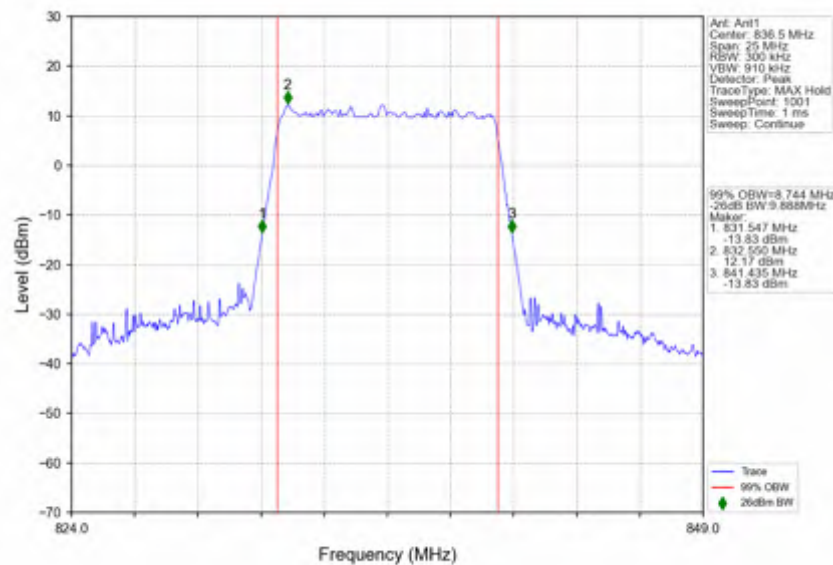
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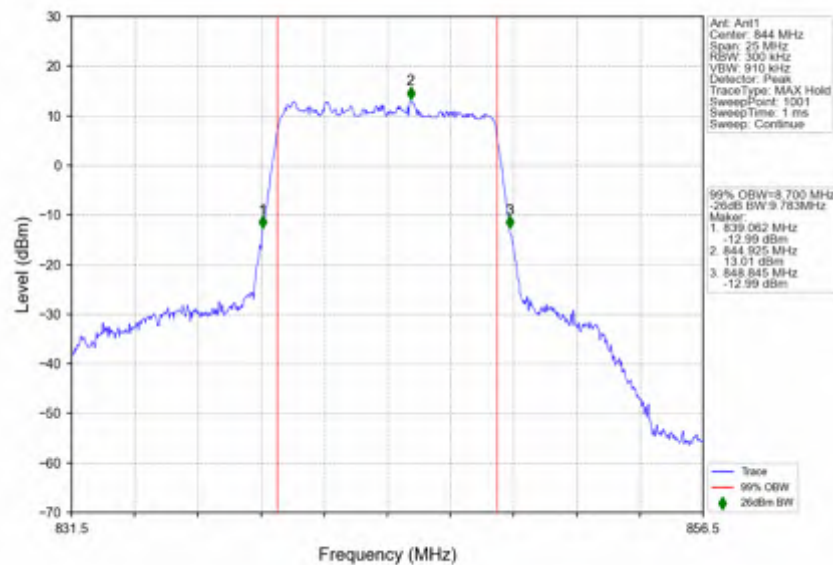
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n5\_30kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM 64 QAM\_836.5MHz\_Outer\_Full



n5\_30kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM 64 QAM\_844MHz\_Outer\_Full



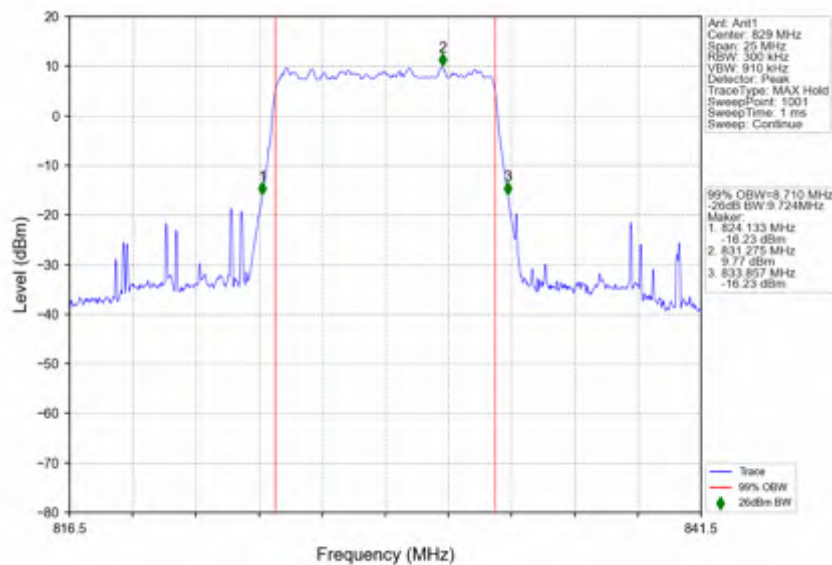
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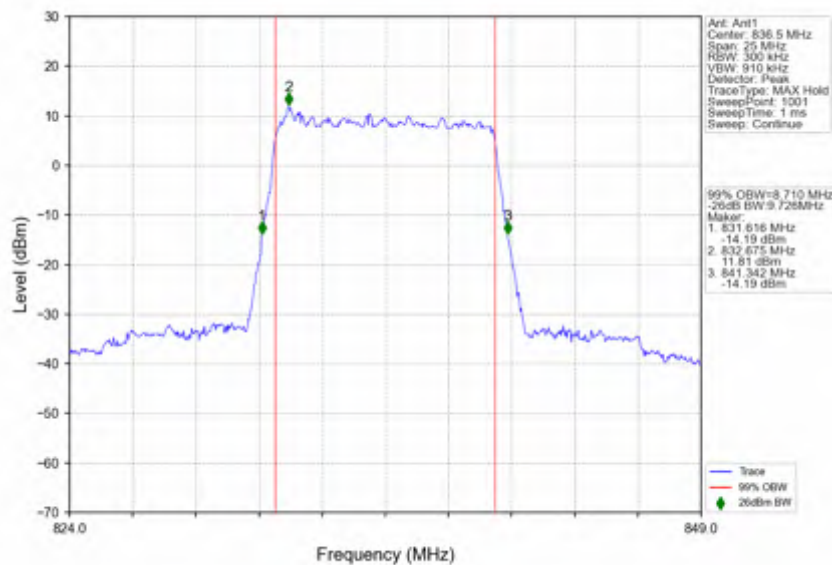
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n5\_30kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM\_256\_QAM\_829MHz\_Outer\_Full



n5\_30kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM\_256\_QAM\_836.5MHz\_Outer\_Full



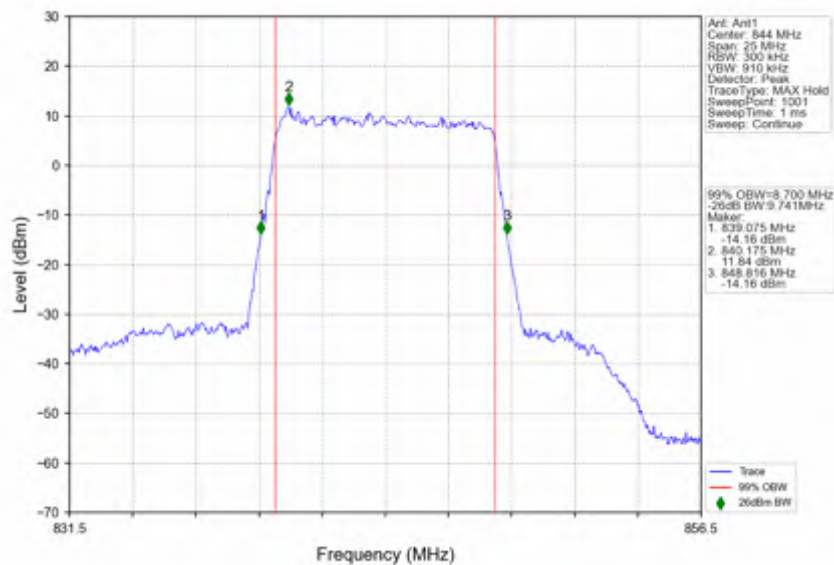
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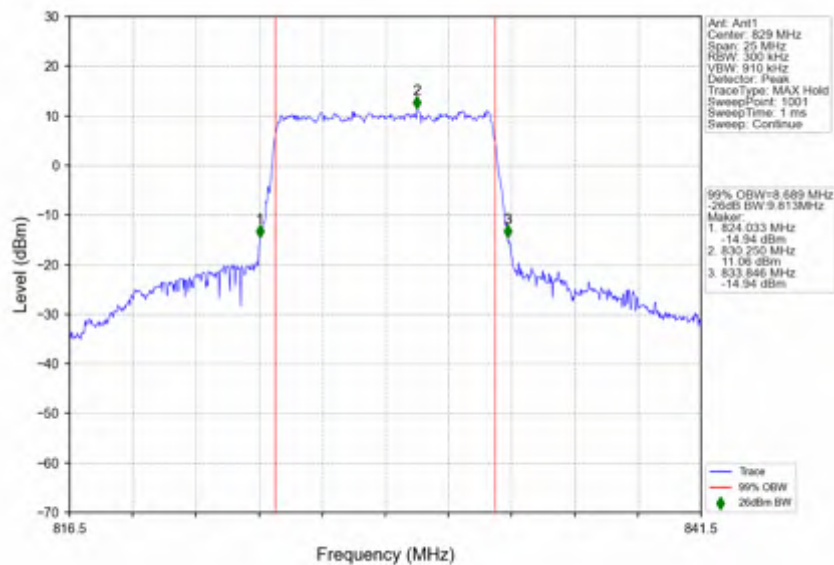
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n5 30kHz SISO NTV 10MHz DFT-s-OFDM 256 QAM 844MHz Outer Full



n5 30kHz SISO NTNv 10MHz CP-OFDM QPSK 829MHz Outer Full

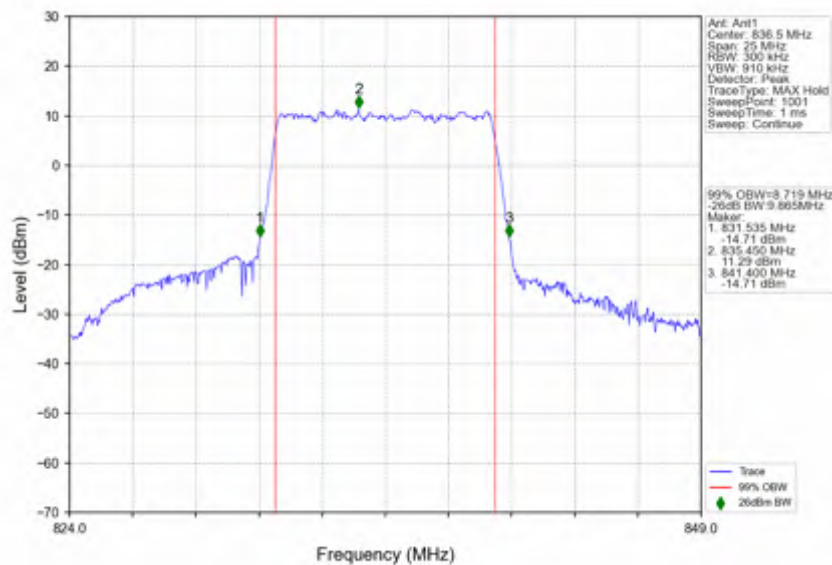


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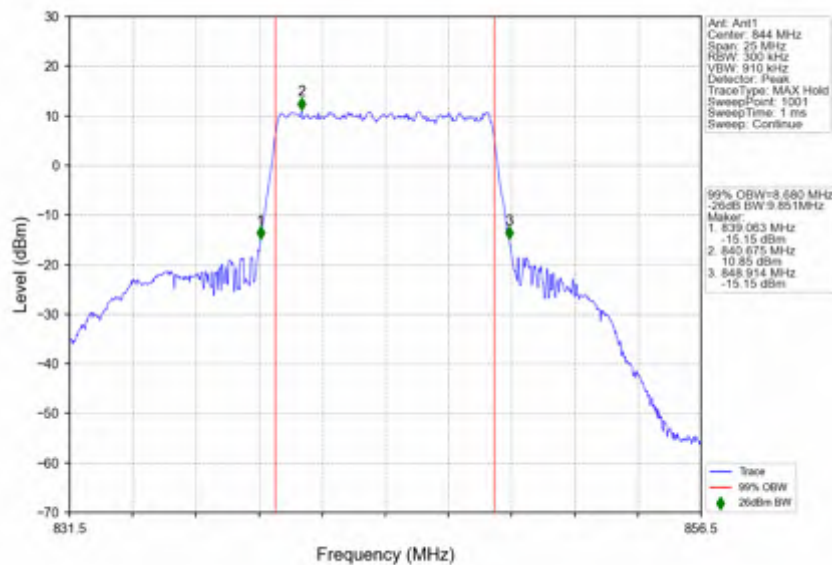
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n5\_30kHz\_SISO\_NTNV\_10MHz\_CP-OFDM QPSK\_836.5MHz\_Outer\_Full



n5\_30kHz\_SISO\_NTNV\_10MHz\_CP-OFDM QPSK\_844MHz\_Outer\_Full



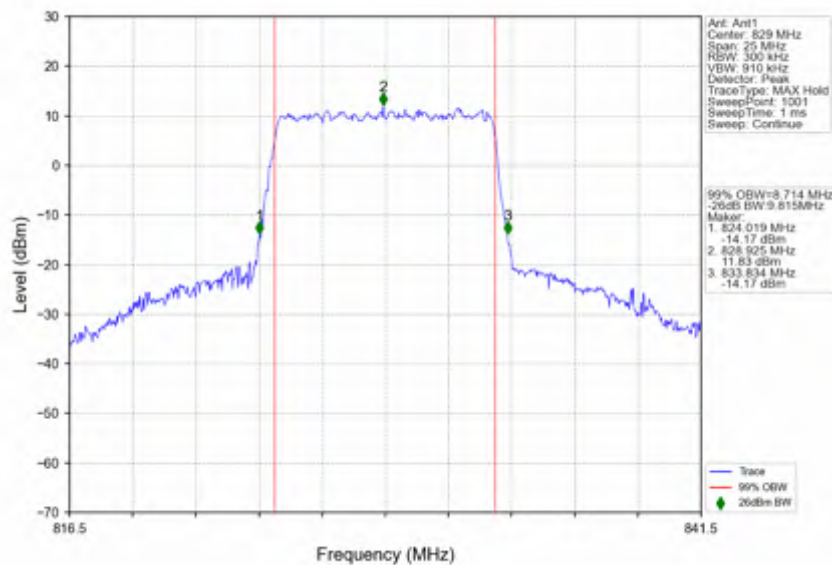
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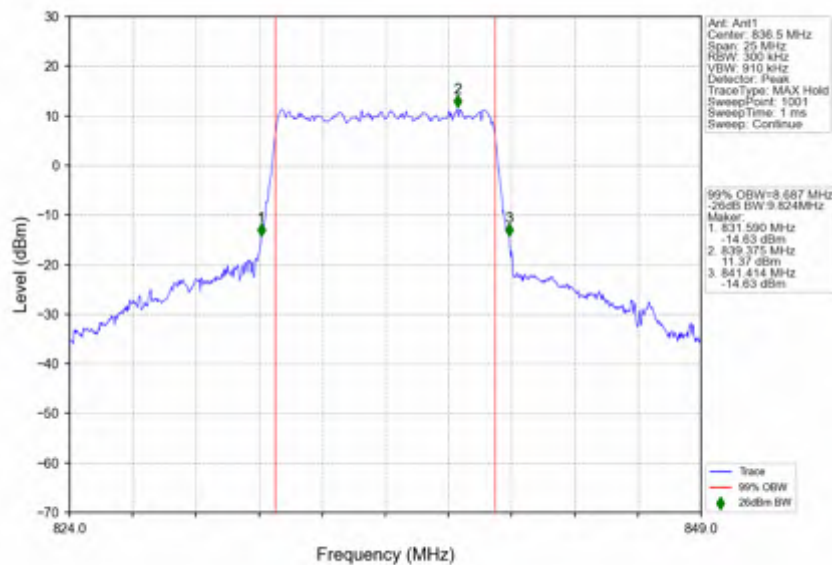
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n5\_30kHz\_SISO\_NTNV\_10MHz\_CP-OFDM 16 QAM\_829MHz\_Outer\_Full



n5\_30kHz\_SISO\_NTNV\_10MHz\_CP-OFDM 16 QAM\_836.5MHz\_Outer\_Full



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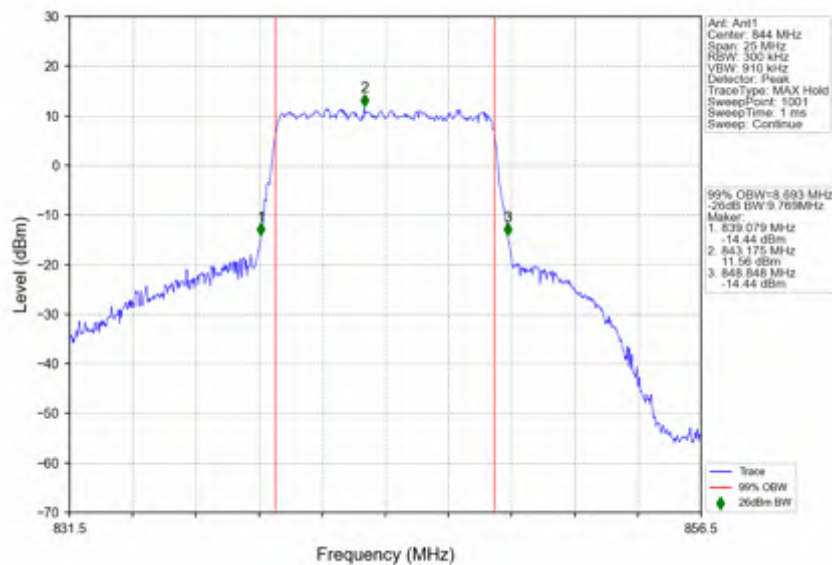
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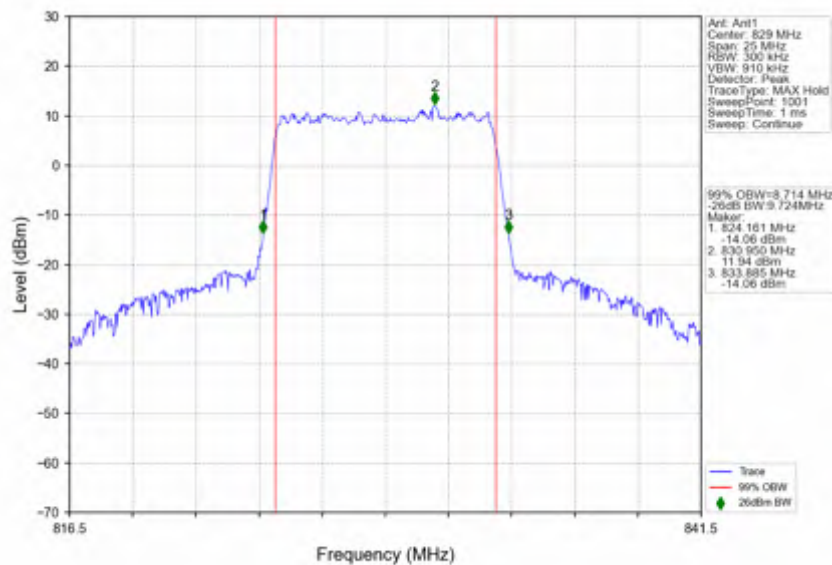
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n5\_30kHz\_SISO\_NTNV\_10MHz\_CP-OFDM\_16 QAM\_844MHz\_Outer\_Full



n5\_30kHz\_SISO\_NTNV\_10MHz\_CP-OFDM\_64 QAM\_829MHz\_Outer\_Full



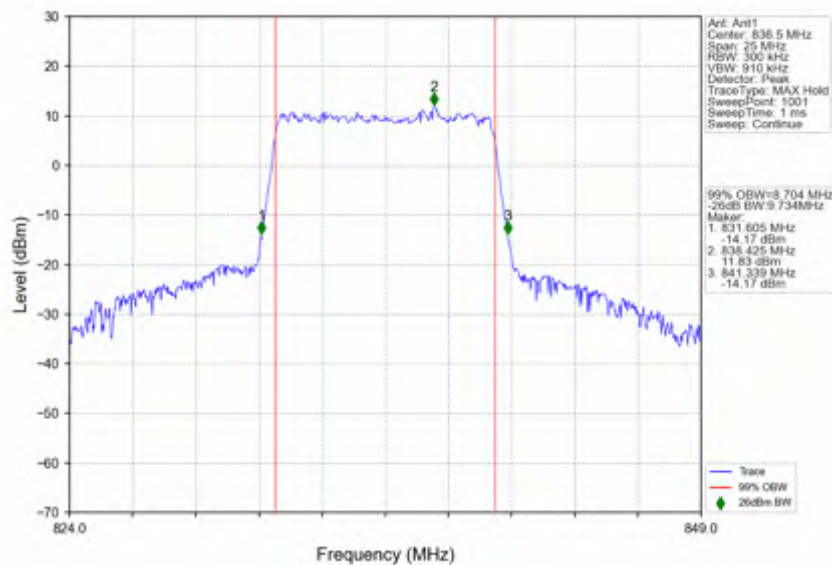
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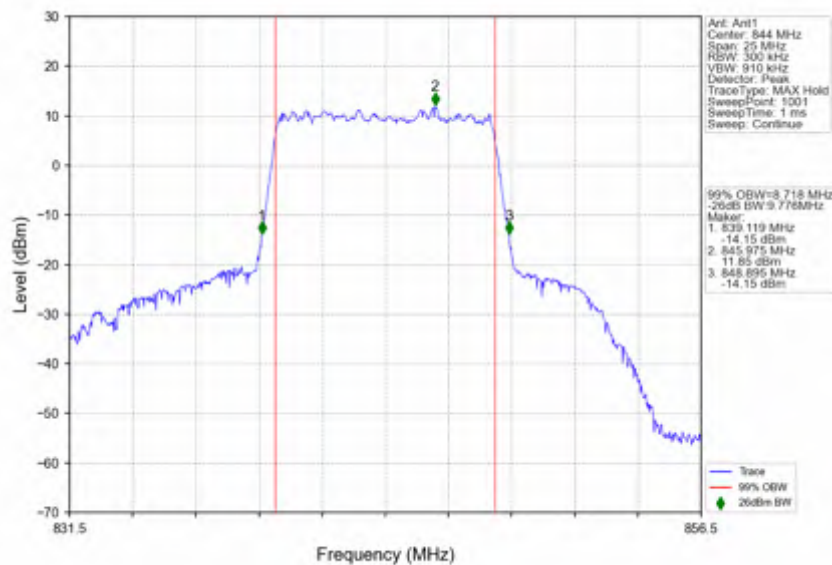
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n5\_30kHz\_SISO\_NTNV\_10MHz\_CP-OFDM 64 QAM\_836.5MHz\_Outer\_Full



n5\_30kHz\_SISO\_NTNV\_10MHz\_CP-OFDM 64 QAM\_844MHz\_Outer\_Full



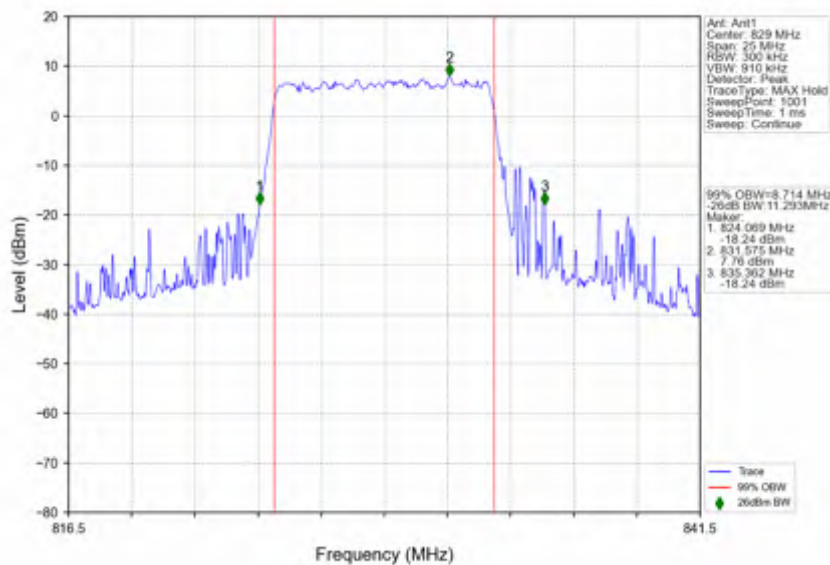
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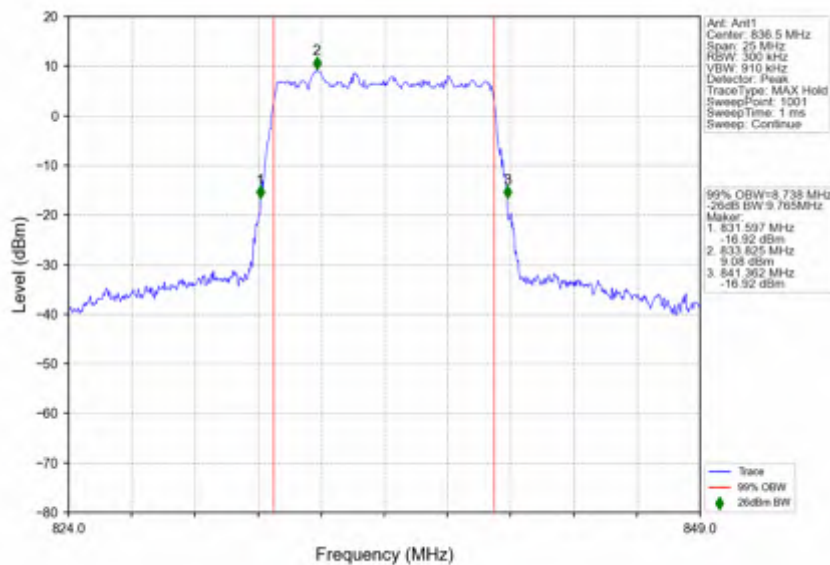
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n5\_30kHz\_SISO\_NTNV\_10MHz\_CP-OFDM 256 QAM\_829MHz\_Outer\_Full



n5\_30kHz\_SISO\_NTNV\_10MHz\_CP-OFDM 256 QAM\_836.5MHz\_Outer\_Full



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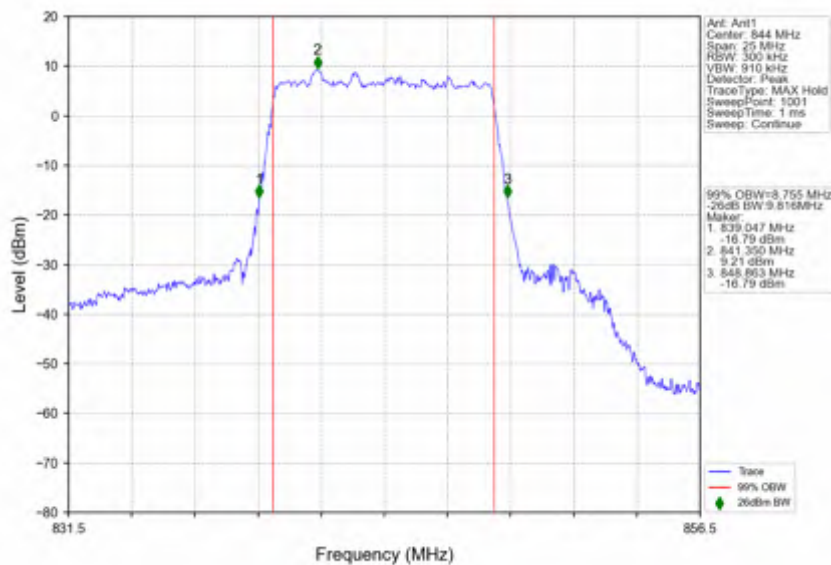
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n5\_30kHz\_SISO\_NTNV\_10MHz\_CP-OFDM 256 QAM\_844MHz\_Outer\_Full



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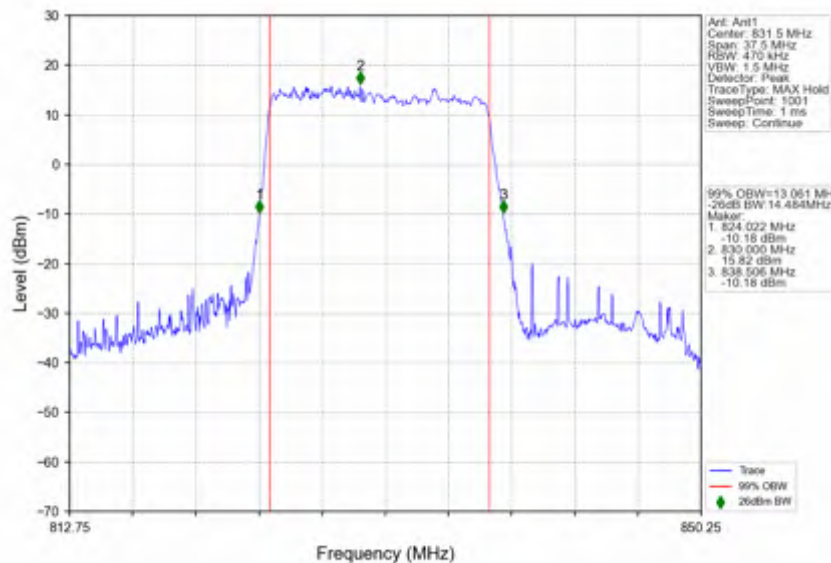
## 2.6 30k\_SISO\_15MHz\_NTNV

### 2.6.1 Test Result

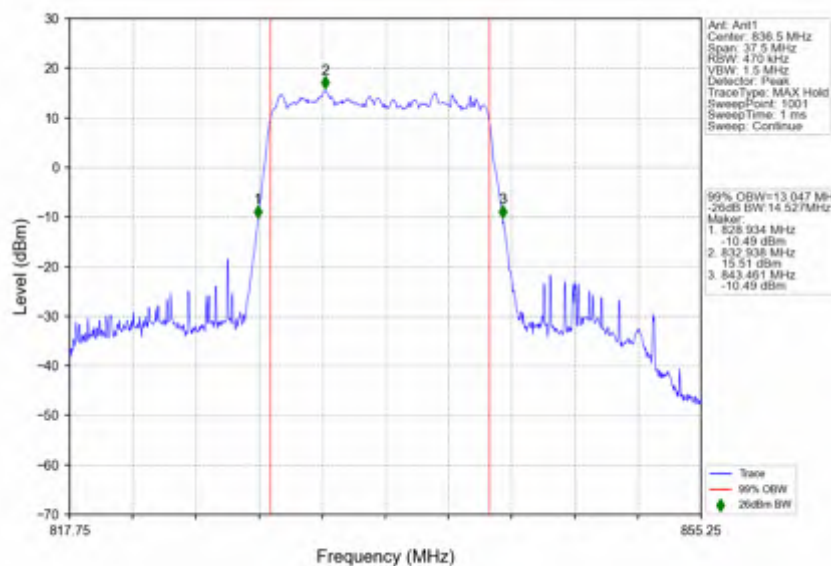
| 5G NR n5 SCS=30kHz SISO 15MHz NTN |                 |               |                     |                      |             |         |
|-----------------------------------|-----------------|---------------|---------------------|----------------------|-------------|---------|
| Modulation                        | Frequency (MHz) | RB Allocation | 99% Bandwidth (MHz) | 26dB Bandwidth (MHz) | Limit (MHz) | Verdict |
| DFT-s-OFDM PI/2 BPSK              | 831.5           | Outer_Full    | 13.06               | 14.48                | /           | Pass    |
|                                   | 836.5           | Outer_Full    | 13.05               | 14.53                | /           | Pass    |
|                                   | 841.5           | Outer_Full    | 13.02               | 14.48                | /           | Pass    |
| DFT-s-OFDM QPSK                   | 831.5           | Outer_Full    | 13.06               | 14.71                | /           | Pass    |
|                                   | 836.5           | Outer_Full    | 13.08               | 14.63                | /           | Pass    |
|                                   | 841.5           | Outer_Full    | 13.08               | 14.59                | /           | Pass    |
| DFT-s-OFDM 16 QAM                 | 831.5           | Outer_Full    | 13.04               | 14.50                | /           | Pass    |
|                                   | 836.5           | Outer_Full    | 13.09               | 14.65                | /           | Pass    |
|                                   | 841.5           | Outer_Full    | 13.08               | 14.78                | /           | Pass    |
| DFT-s-OFDM 64 QAM                 | 831.5           | Outer_Full    | 13.07               | 14.62                | /           | Pass    |
|                                   | 836.5           | Outer_Full    | 13.09               | 14.64                | /           | Pass    |
|                                   | 841.5           | Outer_Full    | 13.07               | 14.53                | /           | Pass    |
| DFT-s-OFDM 256 QAM                | 831.5           | Outer_Full    | 13.01               | 14.67                | /           | Pass    |
|                                   | 836.5           | Outer_Full    | 13.06               | 14.65                | /           | Pass    |
|                                   | 841.5           | Outer_Full    | 13.05               | 14.57                | /           | Pass    |
| CP-OFDM QPSK                      | 831.5           | Outer_Full    | 13.70               | 15.06                | /           | Pass    |
|                                   | 836.5           | Outer_Full    | 13.72               | 15.16                | /           | Pass    |
|                                   | 841.5           | Outer_Full    | 13.68               | 15.17                | /           | Pass    |
| CP-OFDM 16 QAM                    | 831.5           | Outer_Full    | 13.74               | 15.15                | /           | Pass    |
|                                   | 836.5           | Outer_Full    | 13.75               | 15.16                | /           | Pass    |
|                                   | 841.5           | Outer_Full    | 13.73               | 15.09                | /           | Pass    |
| CP-OFDM 64 QAM                    | 831.5           | Outer_Full    | 13.70               | 15.13                | /           | Pass    |
|                                   | 836.5           | Outer_Full    | 13.71               | 15.13                | /           | Pass    |
|                                   | 841.5           | Outer_Full    | 13.71               | 15.13                | /           | Pass    |
| CP-OFDM 256 QAM                   | 831.5           | Outer_Full    | 13.80               | 22.81                | /           | Pass    |
|                                   | 836.5           | Outer_Full    | 13.73               | 15.25                | /           | Pass    |
|                                   | 841.5           | Outer_Full    | 13.73               | 15.15                | /           | Pass    |

## 2.6.2 Test Graph

n5\_30kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM PI/2 BPSK\_831.5MHz\_Outer\_Full



n5\_30kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM PI/2 BPSK\_836.5MHz\_Outer\_Full

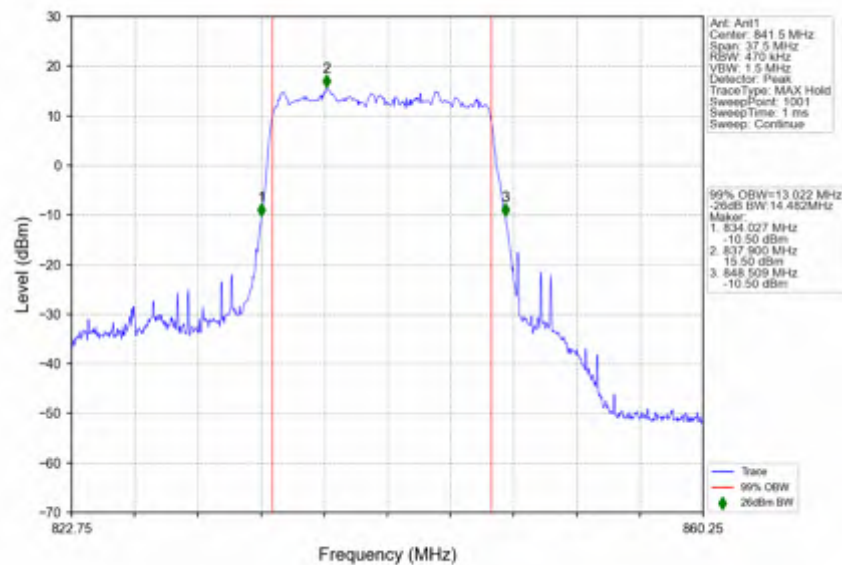


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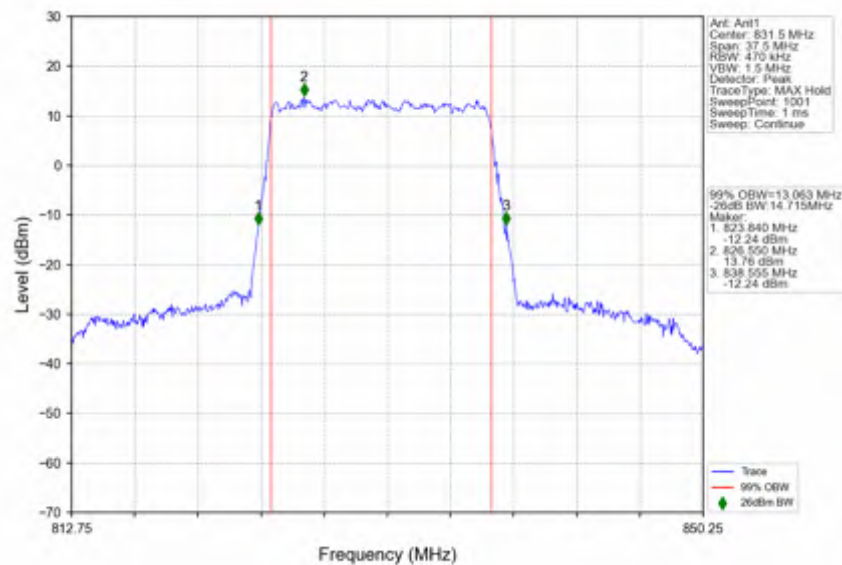
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n5\_30kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM PI/2 BPSK\_841.5MHz\_Outer\_Full



n5\_30kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM QPSK\_831.5MHz\_Outer\_Full



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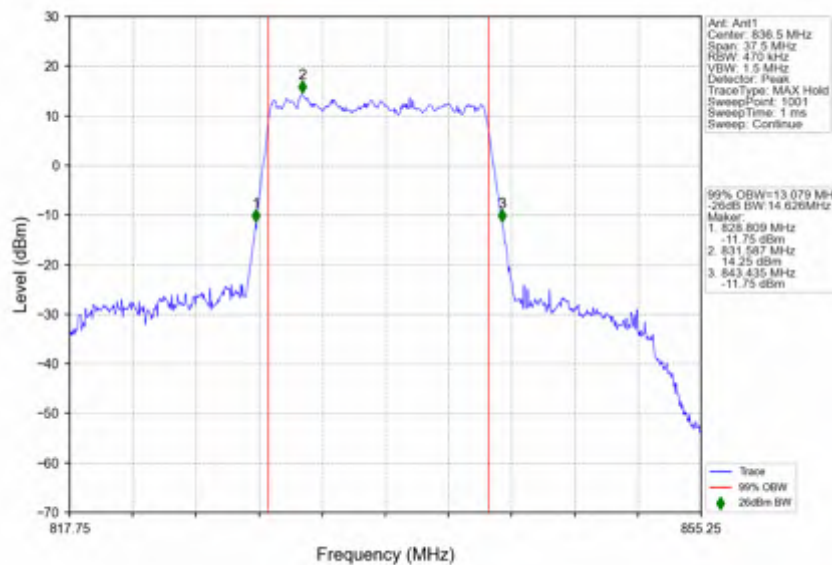
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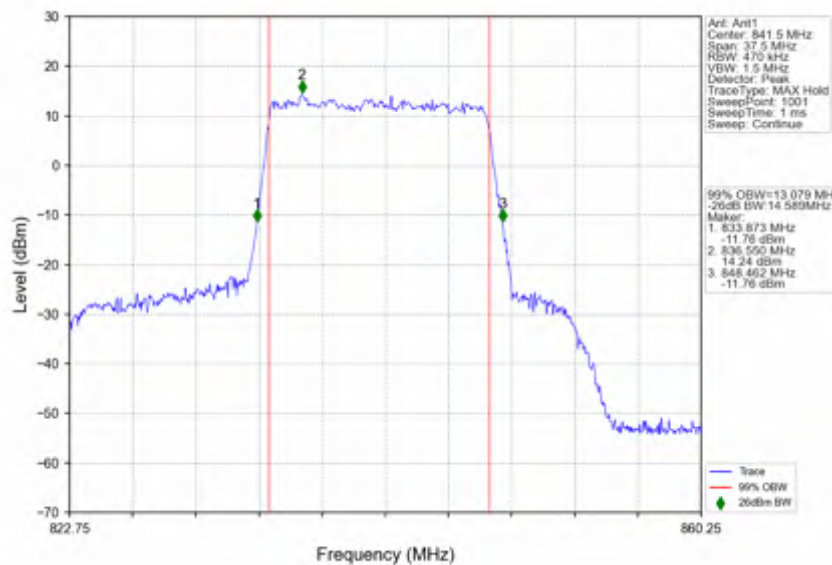
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n5\_30kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM\_QPSK\_841.5MHz\_Outer\_Full



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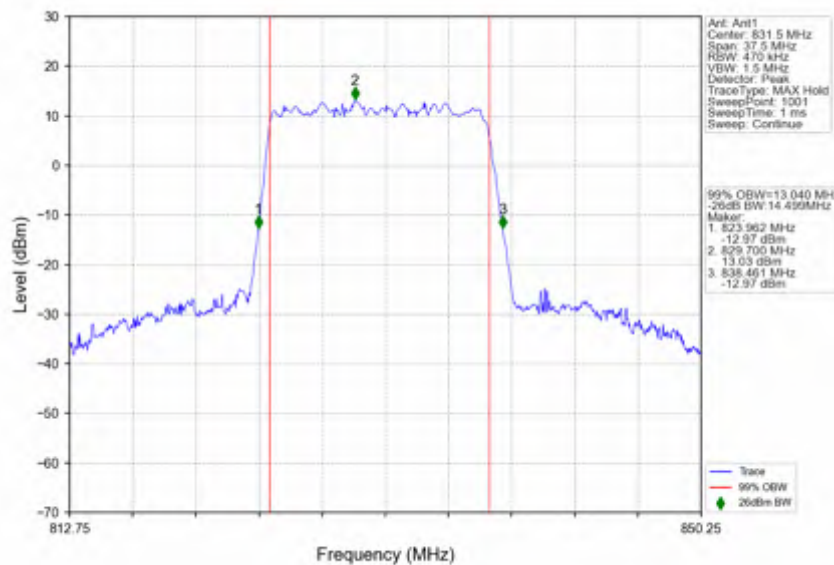
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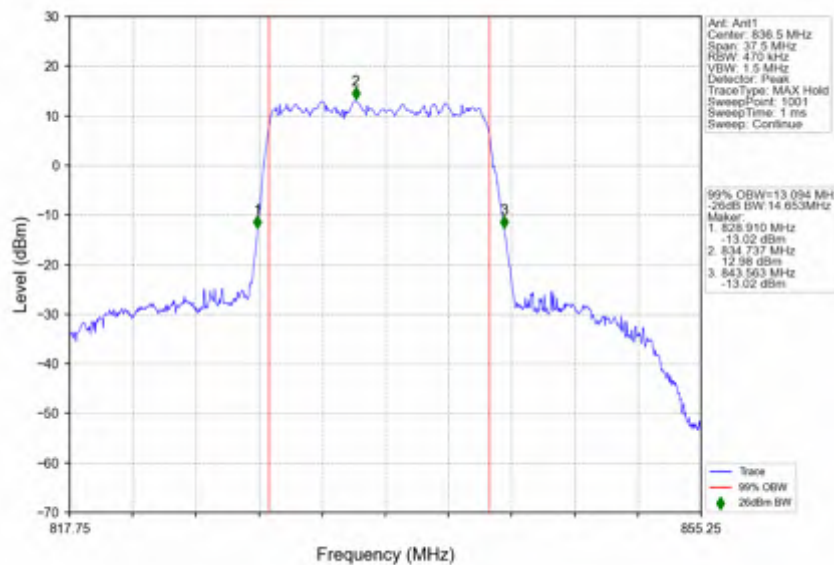
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n5 30kHz SISO NTNv 15MHz DFT-s-OFDM 16 QAM 831.5MHz Outer Full



n5 30kHz SISO NTNV 15MHz DFT-s-OFDM 16 QAM 836.5MHz Outer Full



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