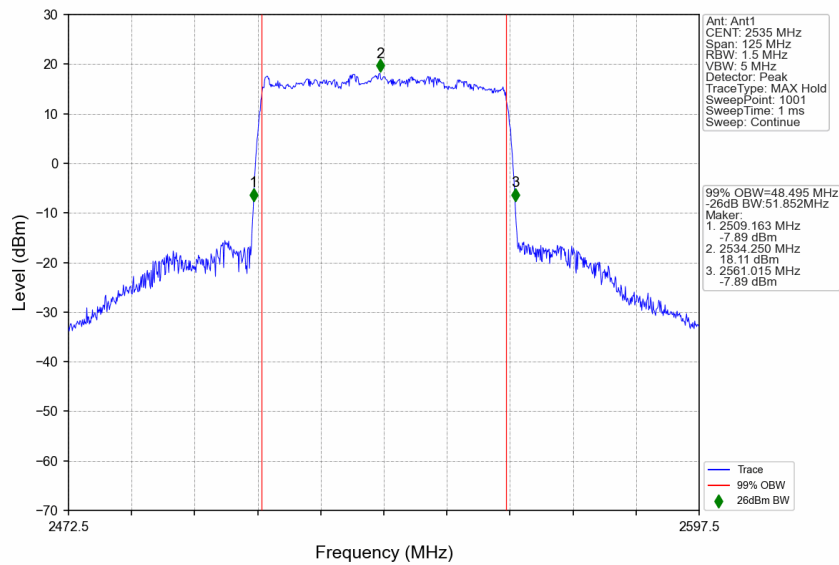
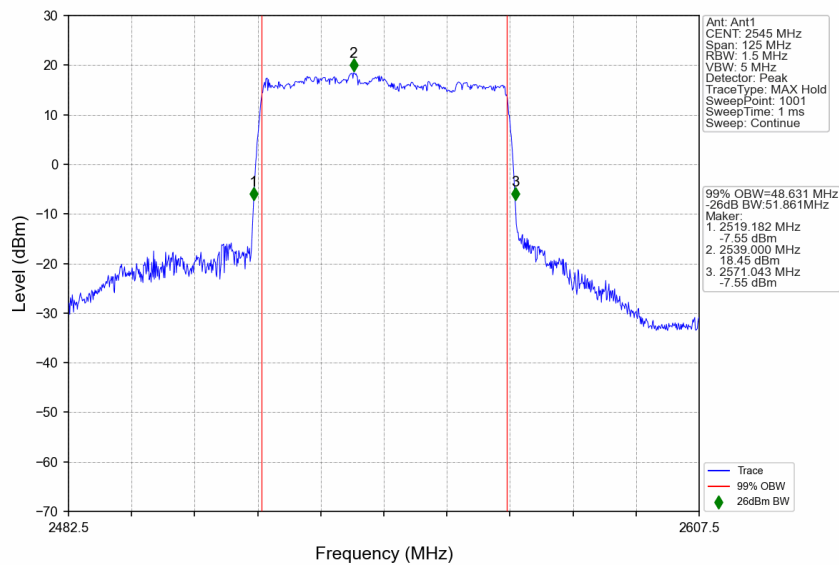


n7_15kHz_SISO_NTNV_50MHz_DFT-s-OFDM 64 QAM_2535MHz_Outer_Full



n7_15kHz_SISO_NTNV_50MHz_DFT-s-OFDM 64 QAM_2545MHz_Outer_Full

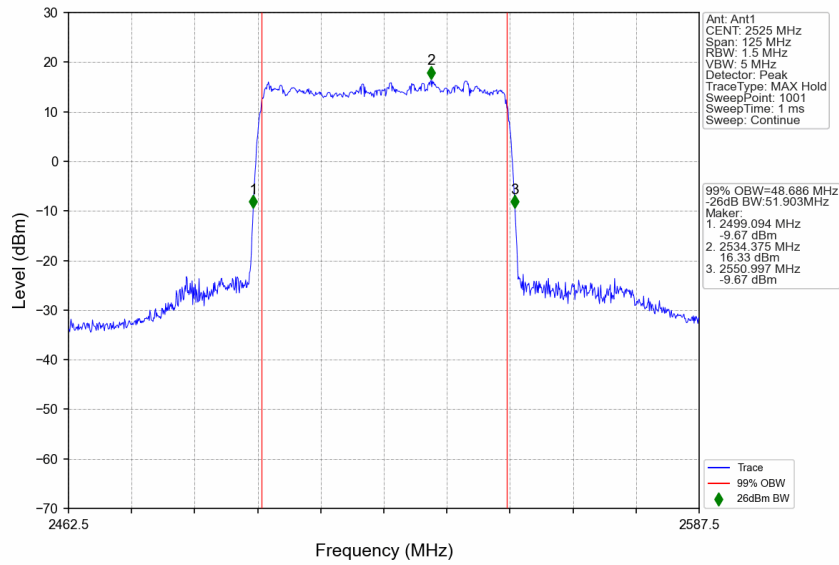


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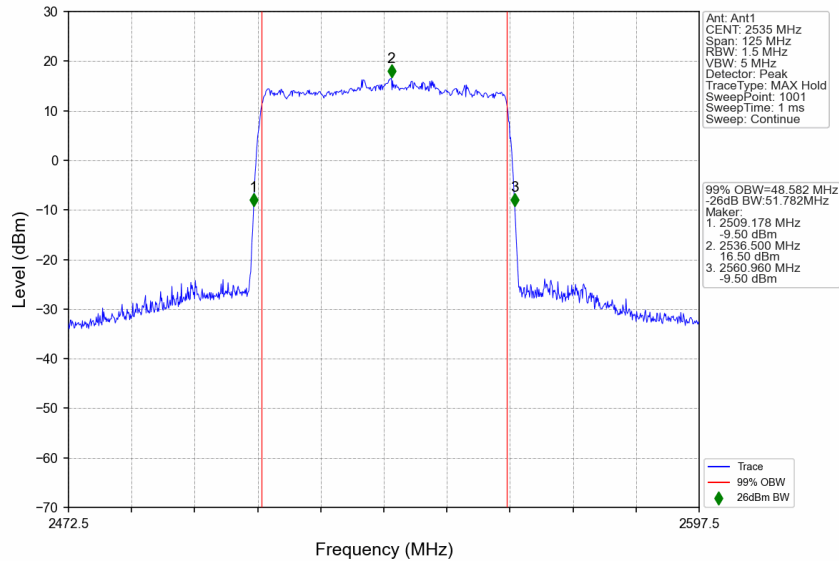
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n7_15kHz_SISO_NTNV_50MHz_DFT-s-OFDM 256 QAM_2525MHz_Outer_Full



n7_15kHz_SISO_NTNV_50MHz_DFT-s-OFDM 256 QAM_2535MHz_Outer_Full

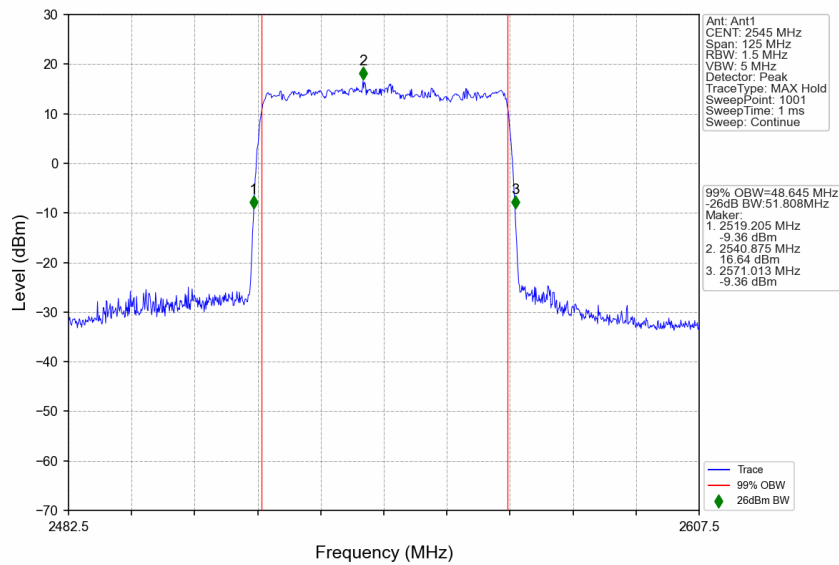


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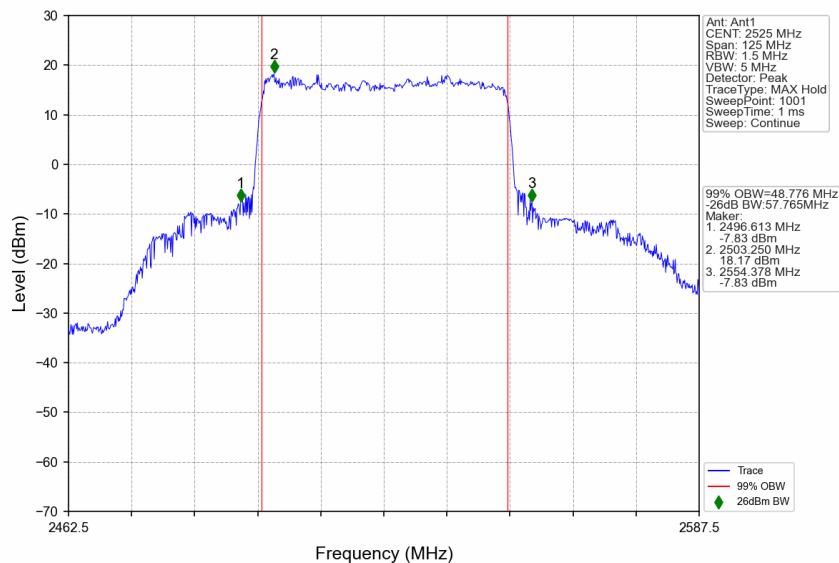
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n7_15kHz_SISO_NTNV_50MHz_DFT-s-OFDM 256 QAM_2545MHz_Outer_Full



n7_15kHz_SISO_NTNV_50MHz_CP-OFDM QPSK_2525MHz_Outer_Full



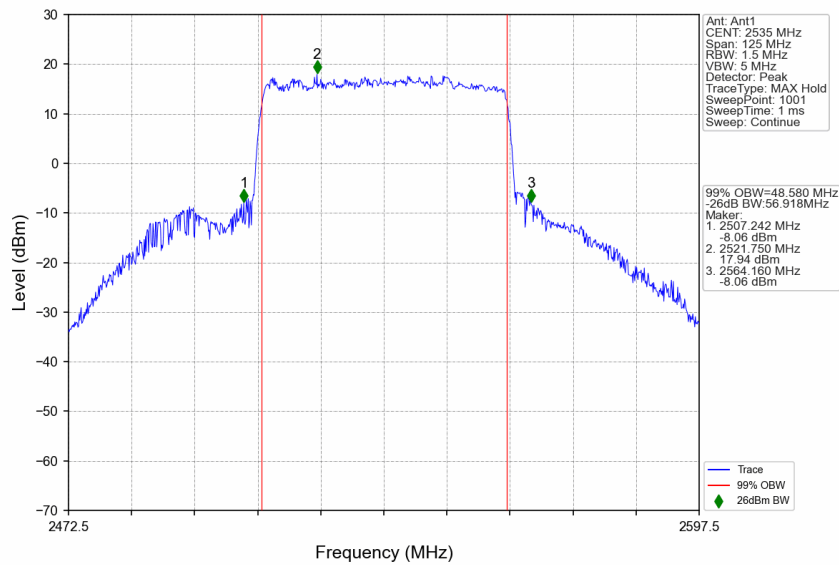
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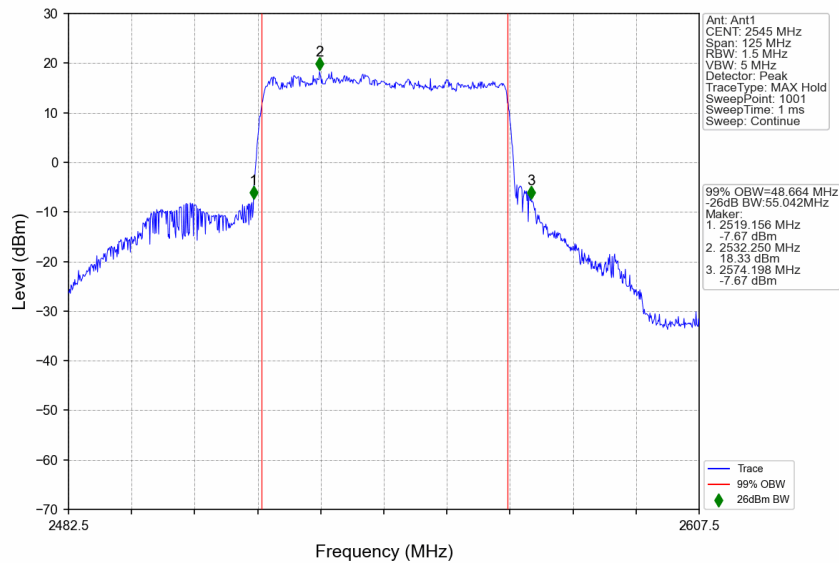
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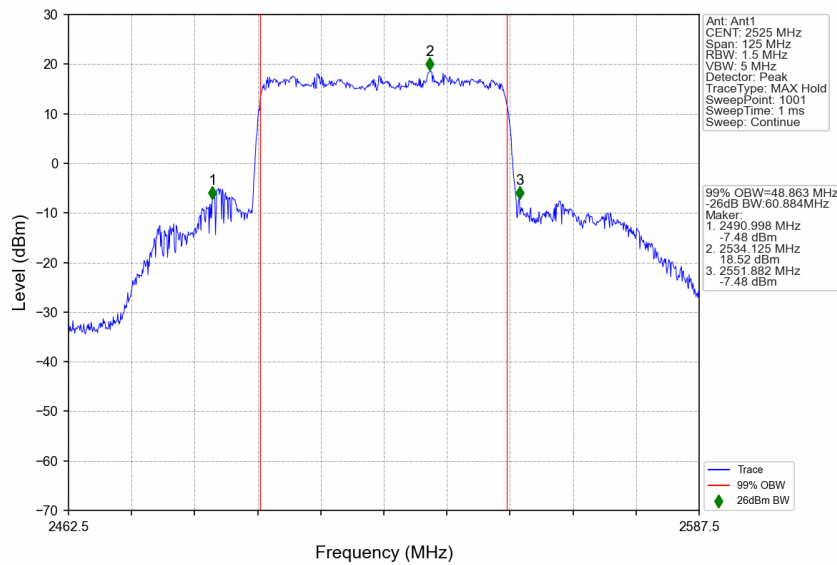


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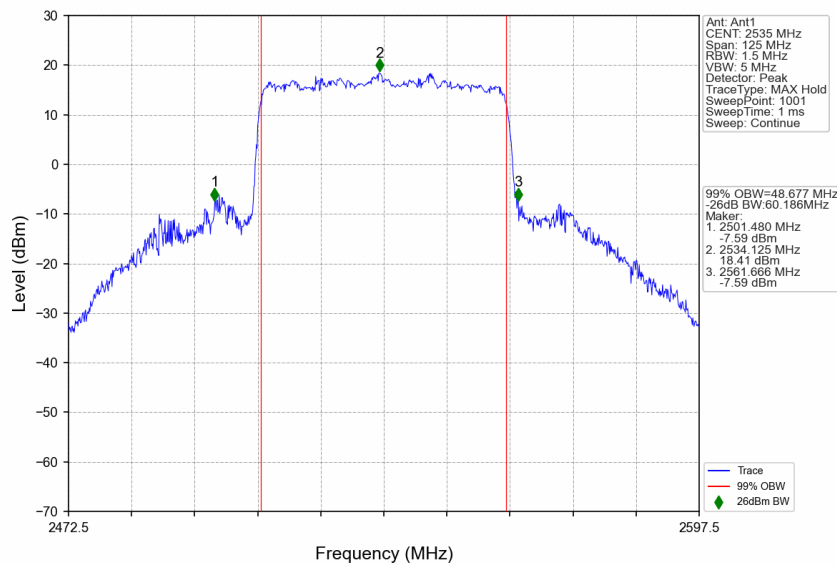
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n7_15kHz_SISO_NTNV_50MHz_CP-OFDM 16 QAM_2525MHz_Outer_Full



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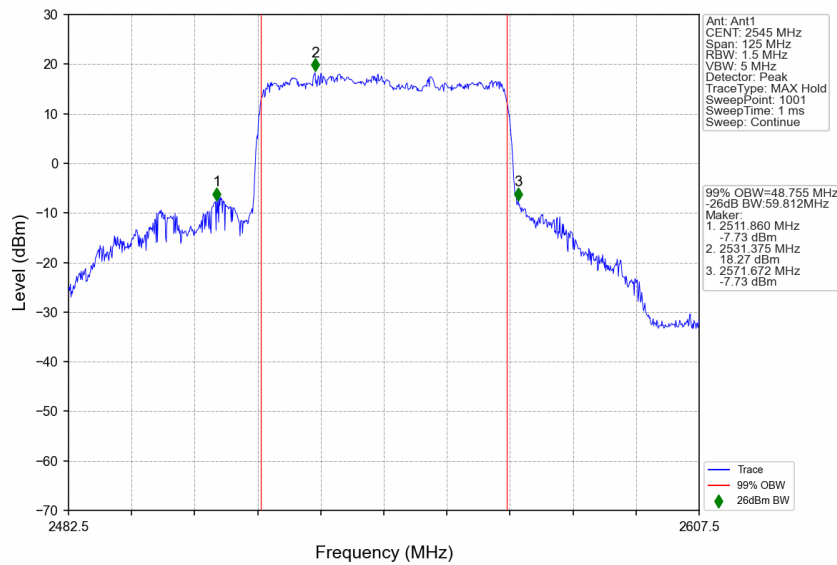


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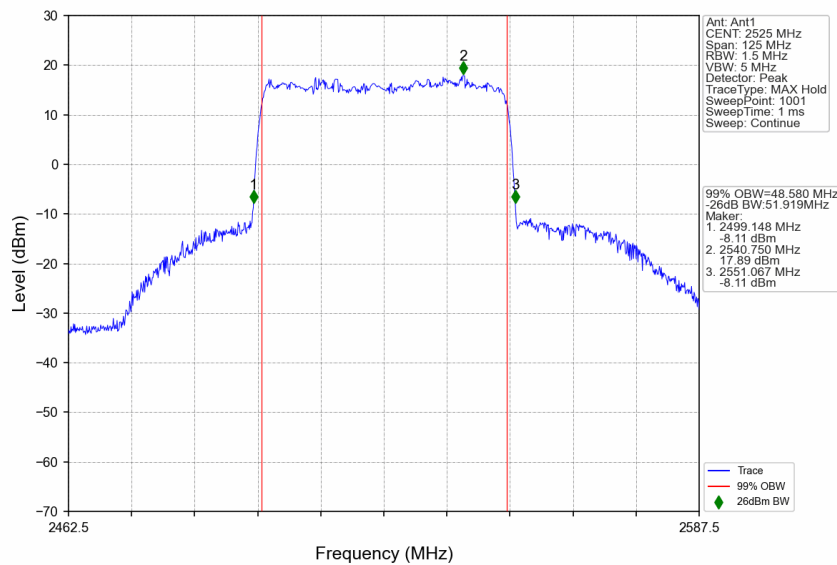
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n7_15kHz_SISO_NTNV_50MHz_CP-OFDM 16 QAM_2545MHz_Outer_Full



n7_15kHz_SISO_NTNV_50MHz_CP-OFDM 64 QAM_2525MHz_Outer_Full

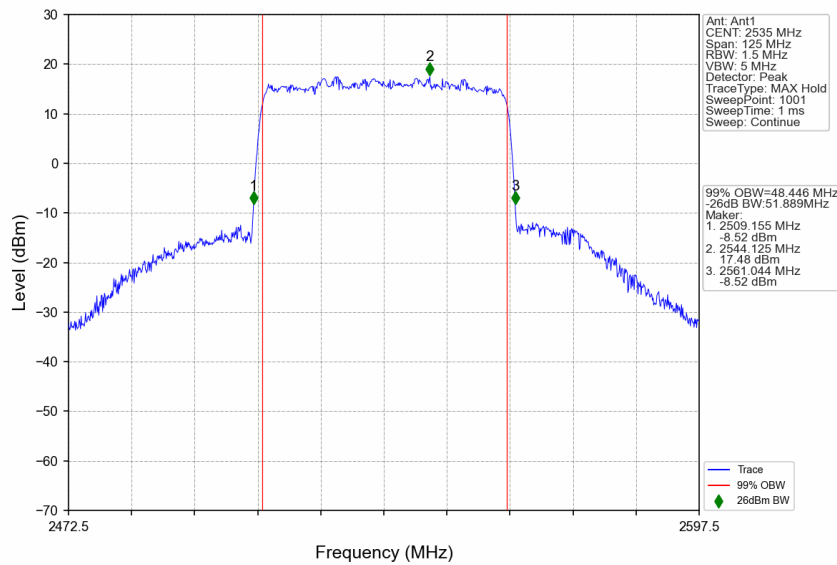


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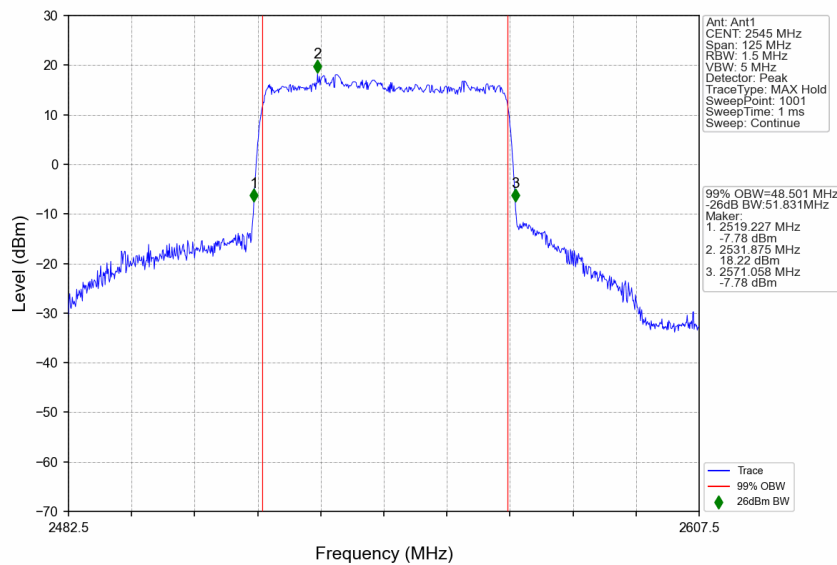
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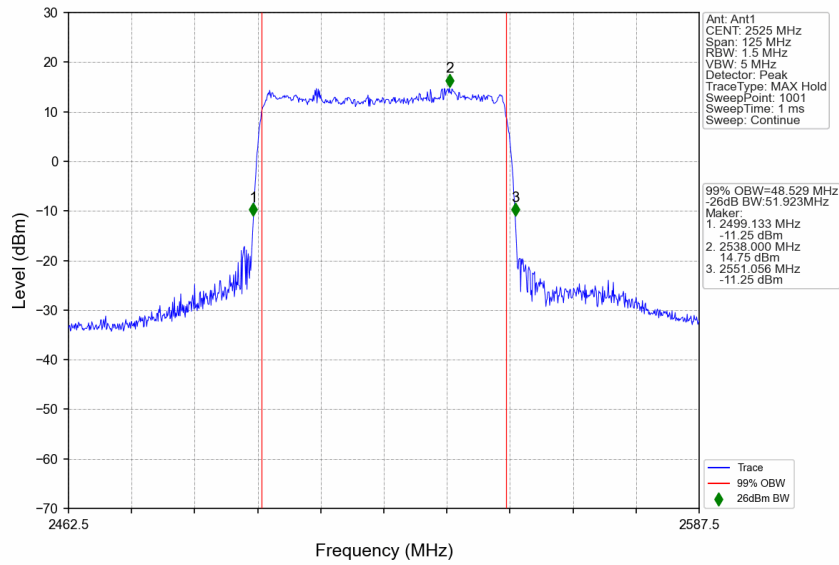


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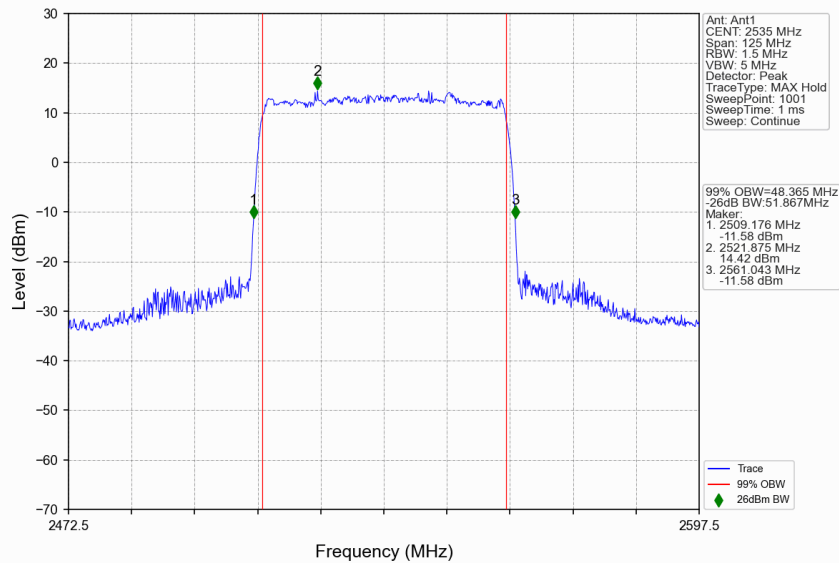
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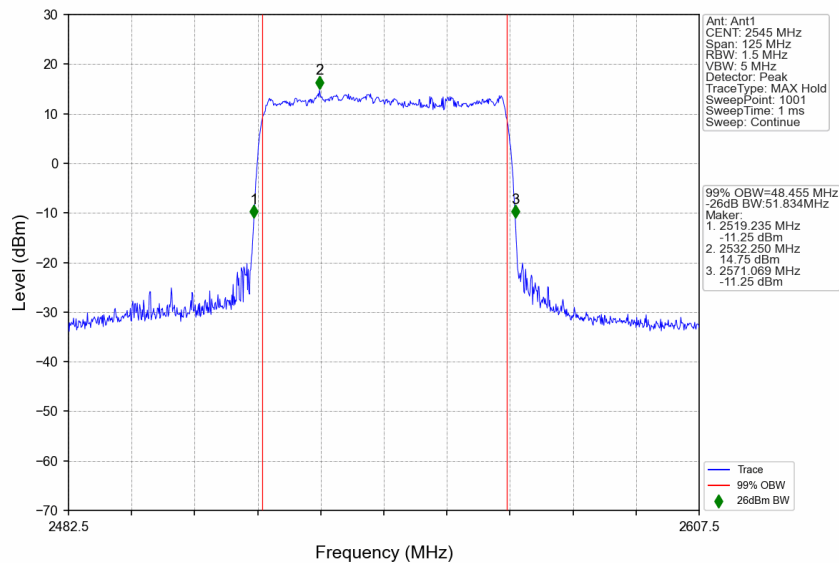


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4.9 30k_SISO_10MHz_NTNV

4.9.1 Test Result

| 5G NR n7 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 | 2505 | Outer_Full | 8.71 | 9.68 | / | Pass |
| | 2535 | Outer_Full | 8.73 | 9.68 | / | Pass |
| | 2565 | Outer_Full | 8.72 | 9.52 | / | Pass |
| DFT-s-OFDM QPSK | 2505 | Outer_Full | 8.70 | 9.58 | / | Pass |
| | 2535 | Outer_Full | 8.69 | 9.53 | / | Pass |
| | 2565 | Outer_Full | 8.71 | 9.64 | / | Pass |
| DFT-s-OFDM 16 QAM | 2505 | Outer_Full | 8.69 | 9.62 | / | Pass |
| | 2535 | Outer_Full | 8.68 | 9.54 | / | Pass |
| | 2565 | Outer_Full | 8.69 | 9.57 | / | Pass |
| DFT-s-OFDM 64 QAM | 2505 | Outer_Full | 8.71 | 9.58 | / | Pass |
| | 2535 | Outer_Full | 8.71 | 9.64 | / | Pass |
| | 2565 | Outer_Full | 8.71 | 9.65 | / | Pass |
| DFT-s-OFDM 256 QAM | 2505 | Outer_Full | 8.66 | 9.55 | / | Pass |
| | 2535 | Outer_Full | 8.65 | 9.51 | / | Pass |
| | 2565 | Outer_Full | 8.66 | 9.57 | / | Pass |
| CP-OFDM QPSK | 2505 | Outer_Full | 8.74 | 11.71 | / | Pass |
| | 2535 | Outer_Full | 8.72 | 9.91 | / | Pass |
| | 2565 | Outer_Full | 8.72 | 10.37 | / | Pass |
| CP-OFDM 16 QAM | 2505 | Outer_Full | 8.70 | 9.94 | / | Pass |
| | 2535 | Outer_Full | 8.69 | 9.68 | / | Pass |
| | 2565 | Outer_Full | 8.70 | 9.79 | / | Pass |
| CP-OFDM 64 QAM | 2505 | Outer_Full | 8.70 | 11.60 | / | Pass |
| | 2535 | Outer_Full | 8.70 | 11.64 | / | Pass |
| | 2565 | Outer_Full | 8.68 | 10.36 | / | Pass |
| CP-OFDM 256 QAM | 2505 | Outer_Full | 8.72 | 9.64 | / | Pass |
| | 2535 | Outer_Full | 8.72 | 9.61 | / | Pass |
| | 2565 | Outer_Full | 8.72 | 9.62 | / | Pass |

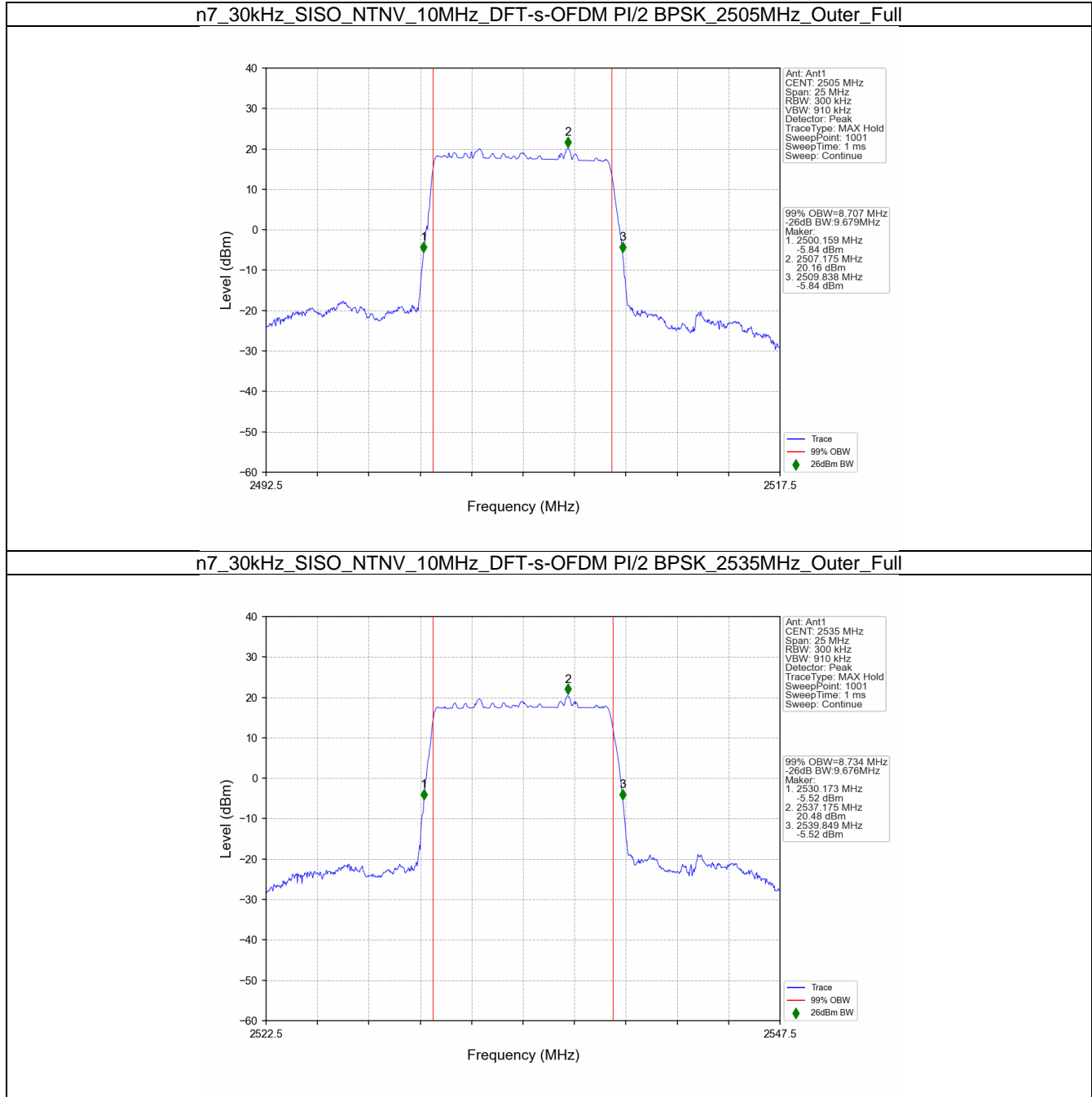


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4.9.2 Test Graph

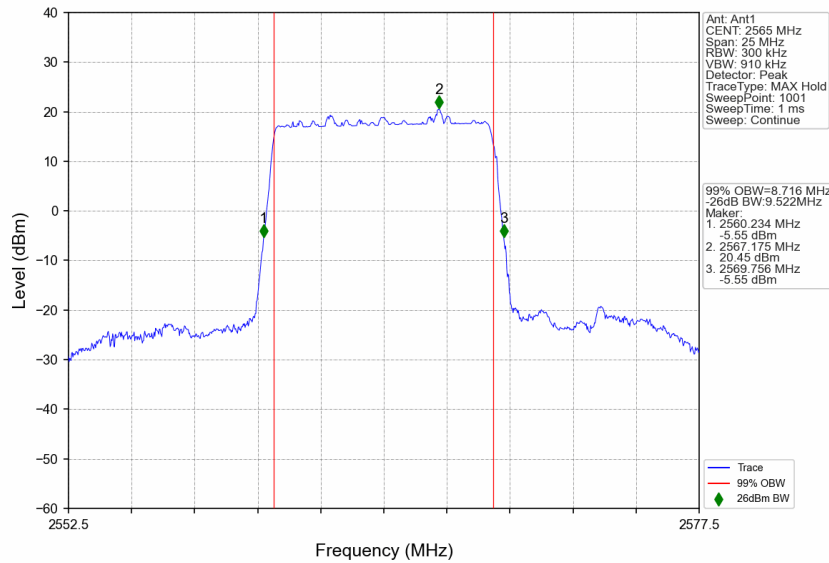


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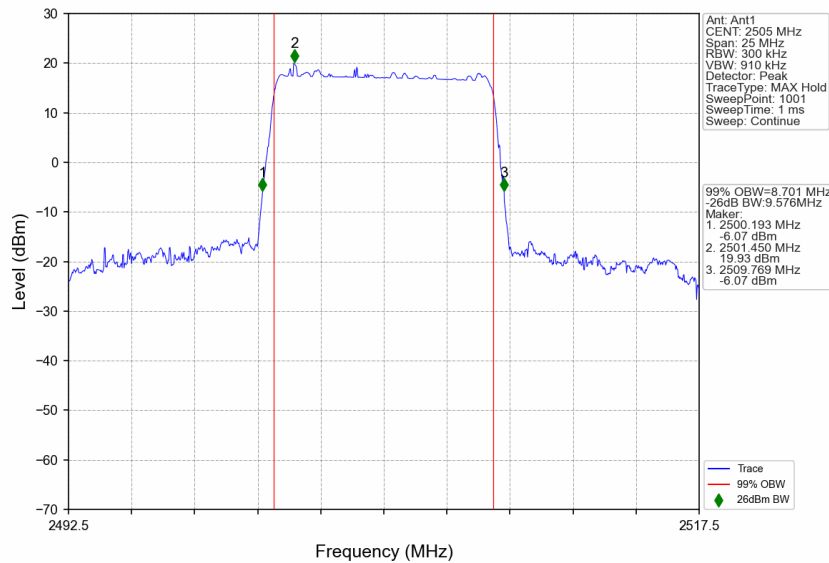
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n7_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_2565MHz_Outer_Full



n7_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_2505MHz_Outer_Full

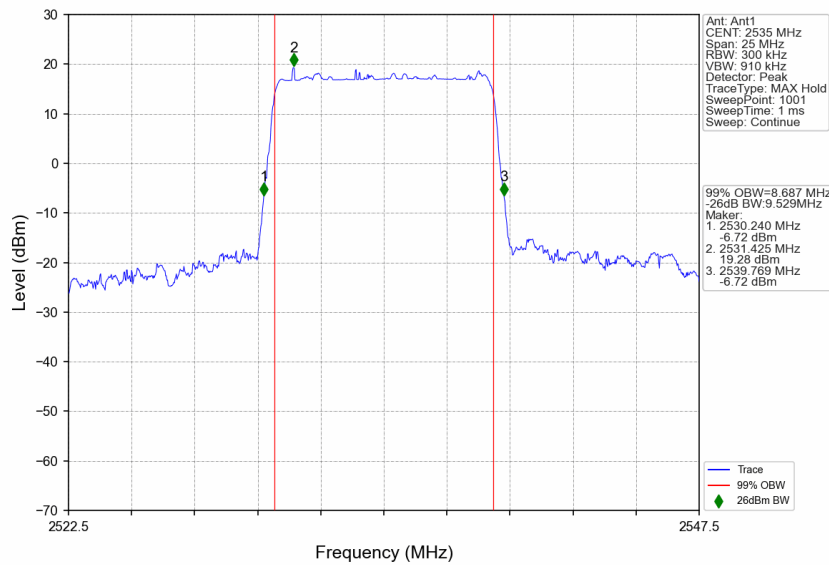


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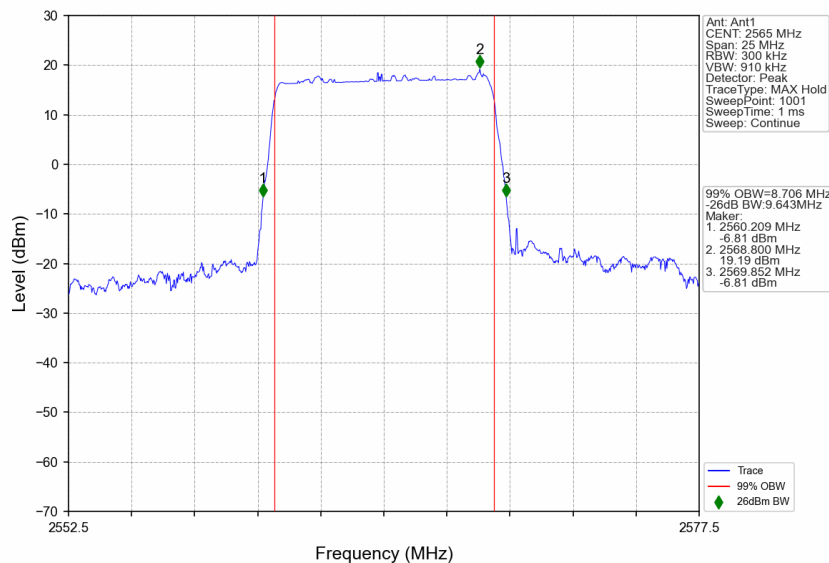
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n7_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_2535MHz_Outer_Full



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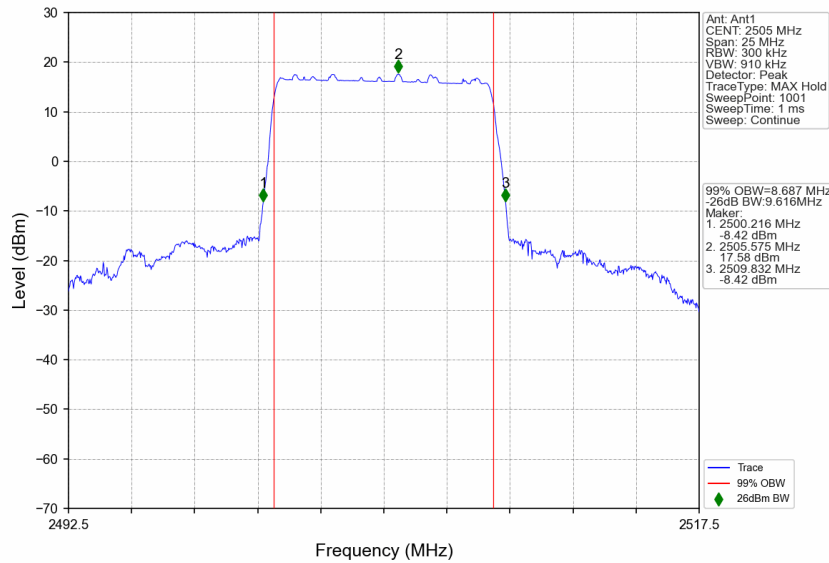


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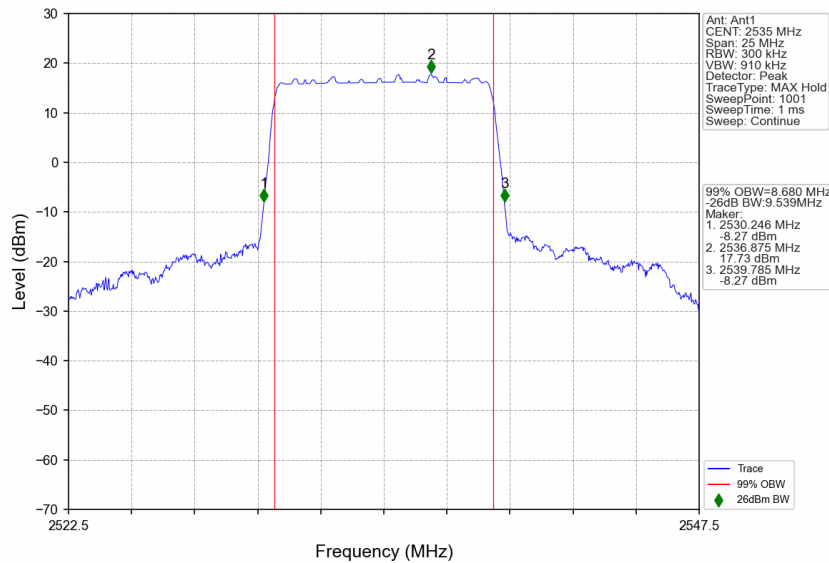
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n7_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_16_QAM_2505MHz_Outer_Full



n7_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_16_QAM_2535MHz_Outer_Full



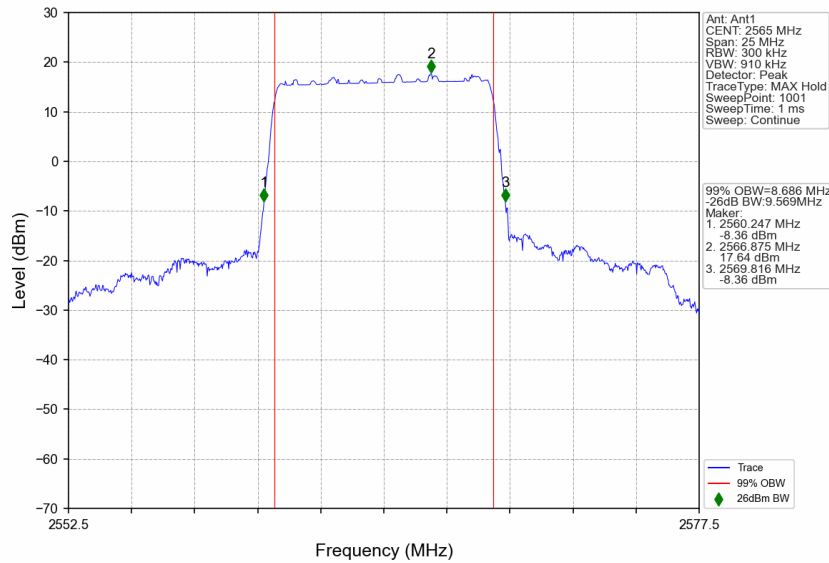
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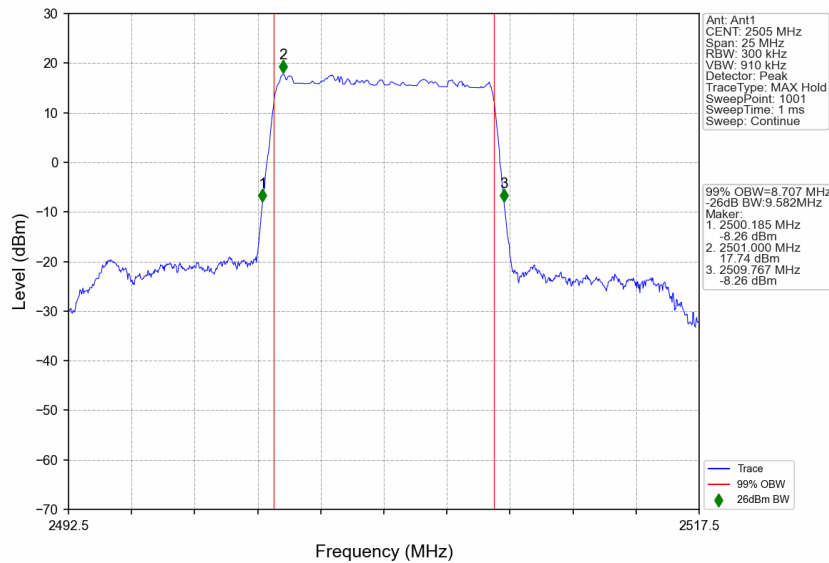
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n7_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 16 QAM_2565MHz_Outer_Full



n7_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 64 QAM_2505MHz_Outer_Full

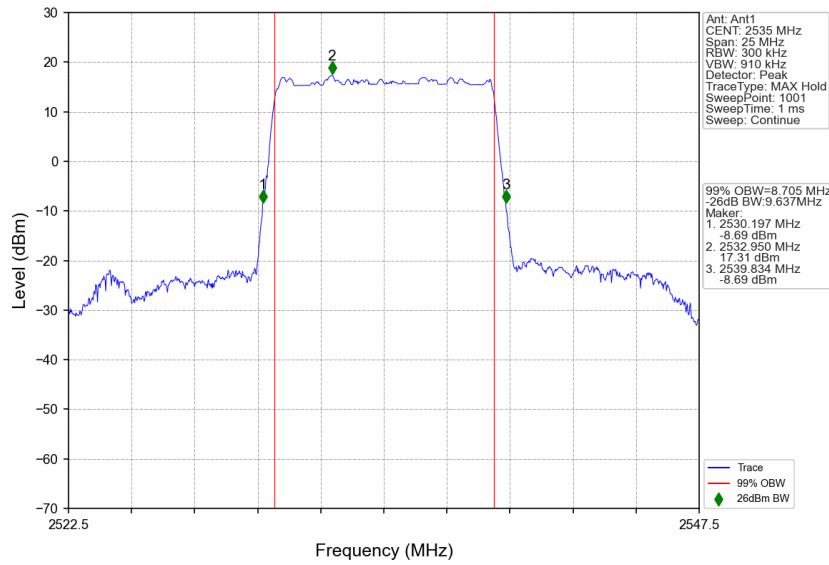


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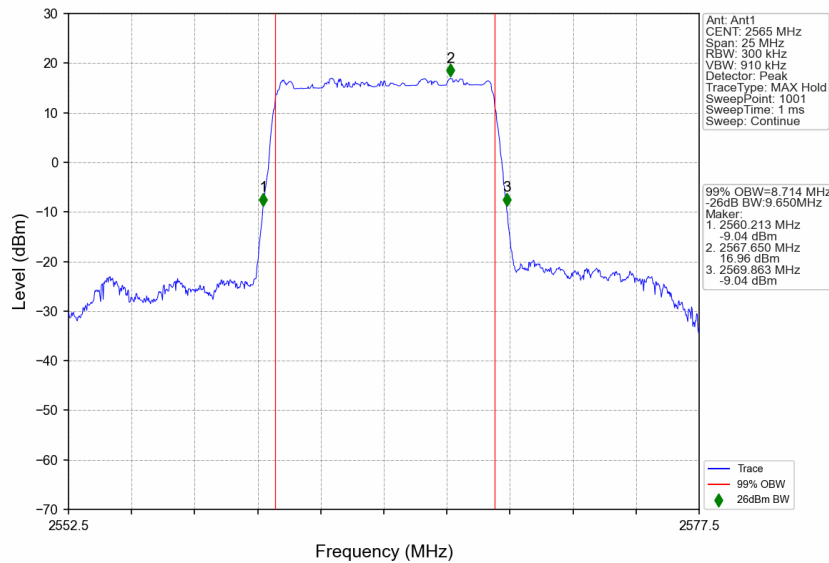
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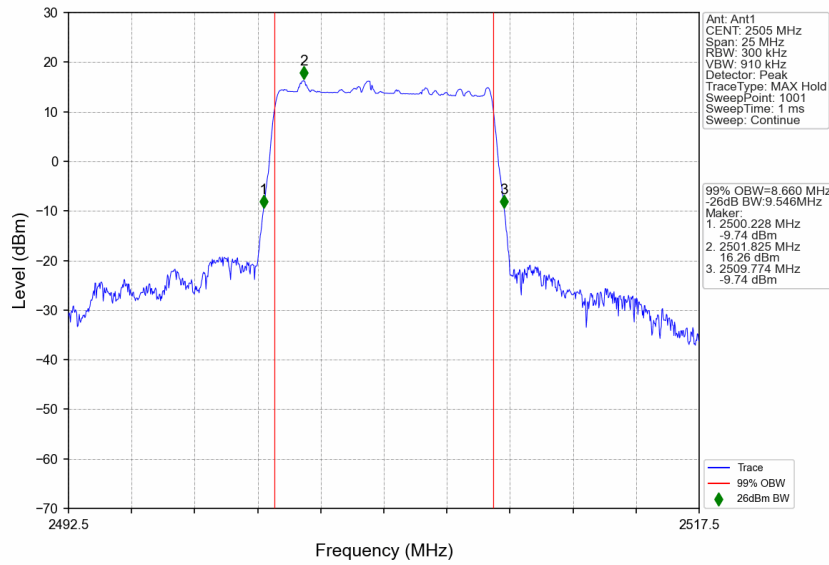
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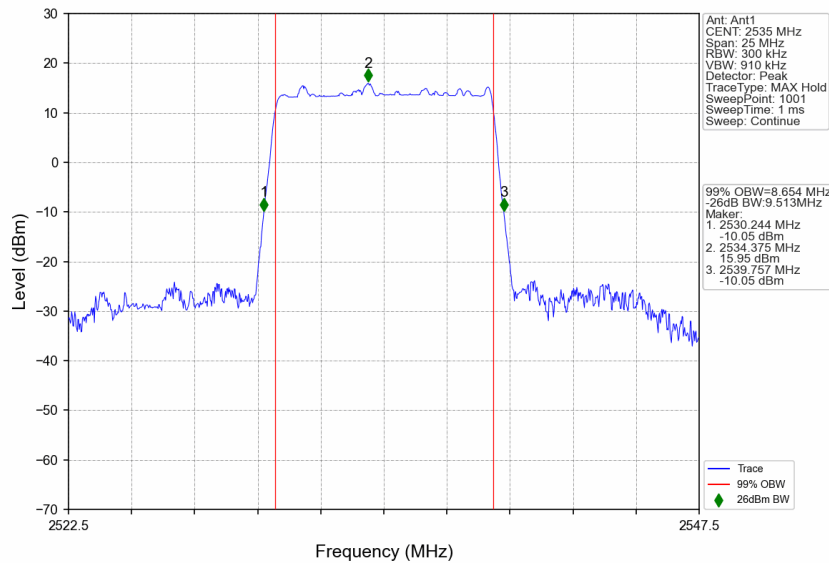
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n7_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 256 QAM_2505MHz_Outer_Full



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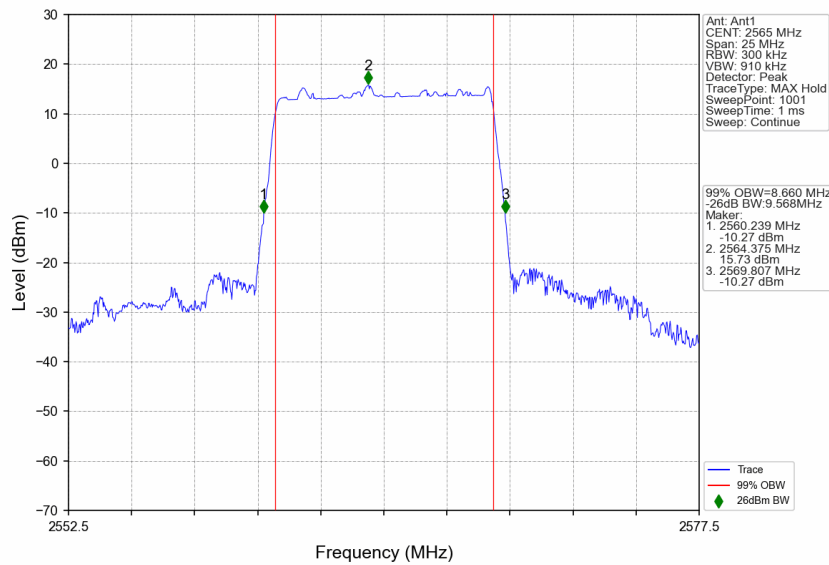


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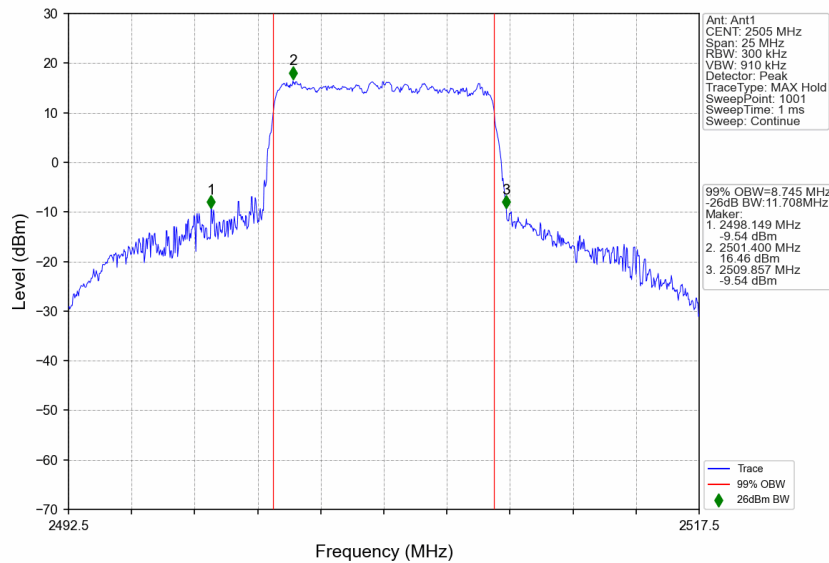
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n7_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_2505MHz_Outer_Full

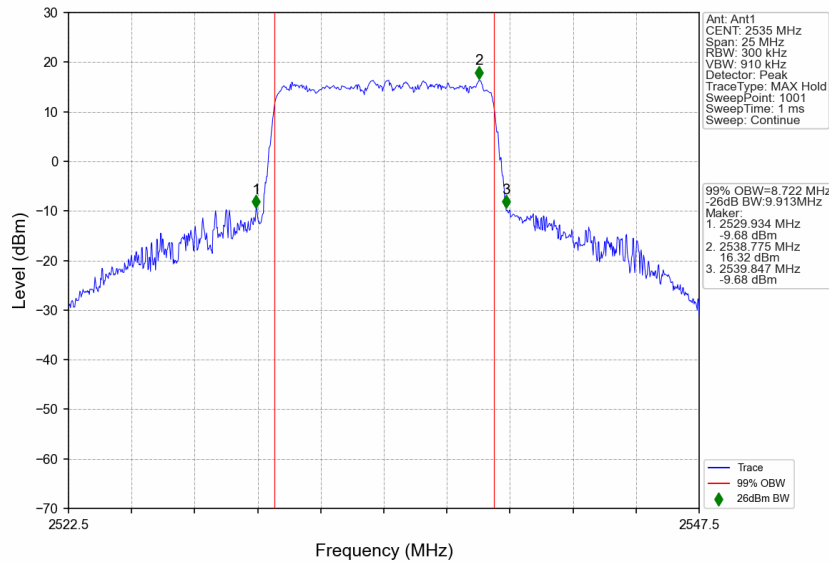


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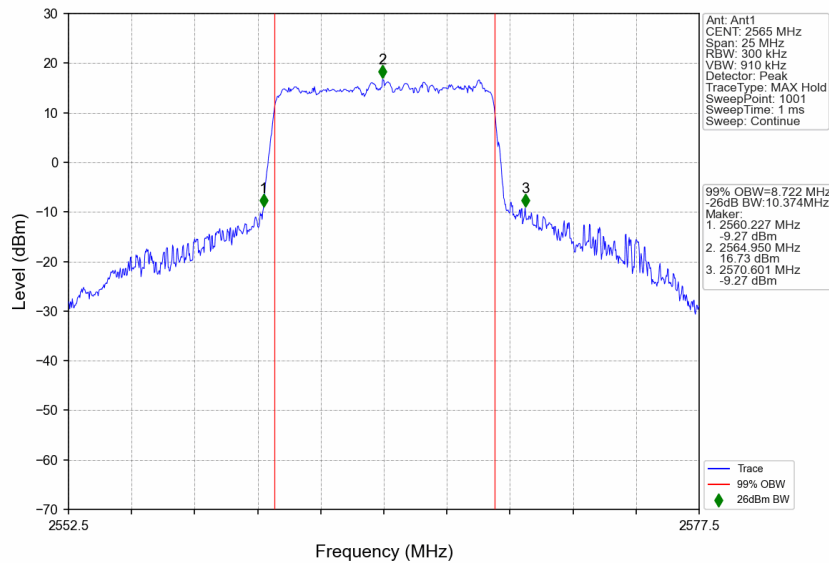
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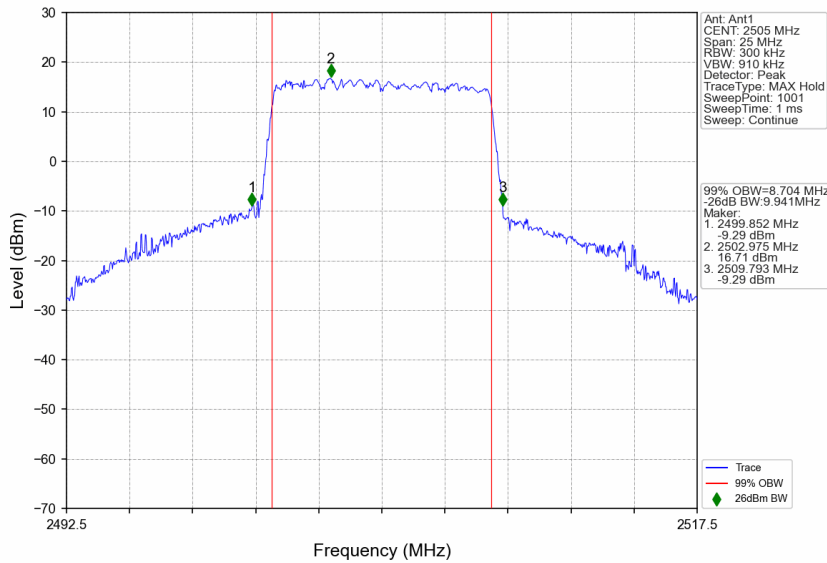


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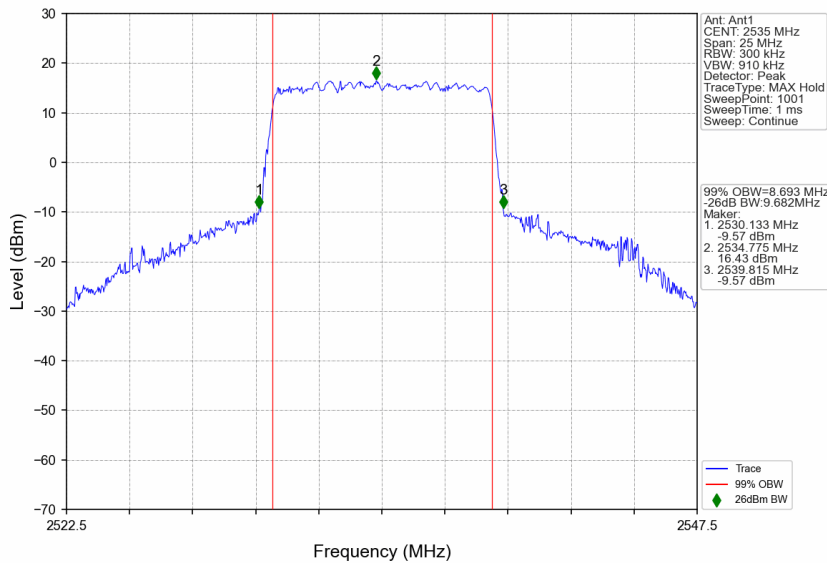
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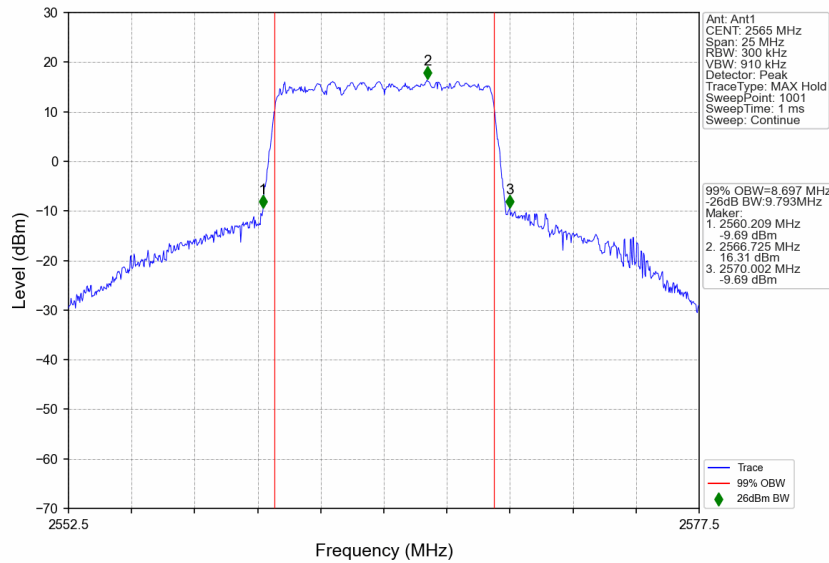


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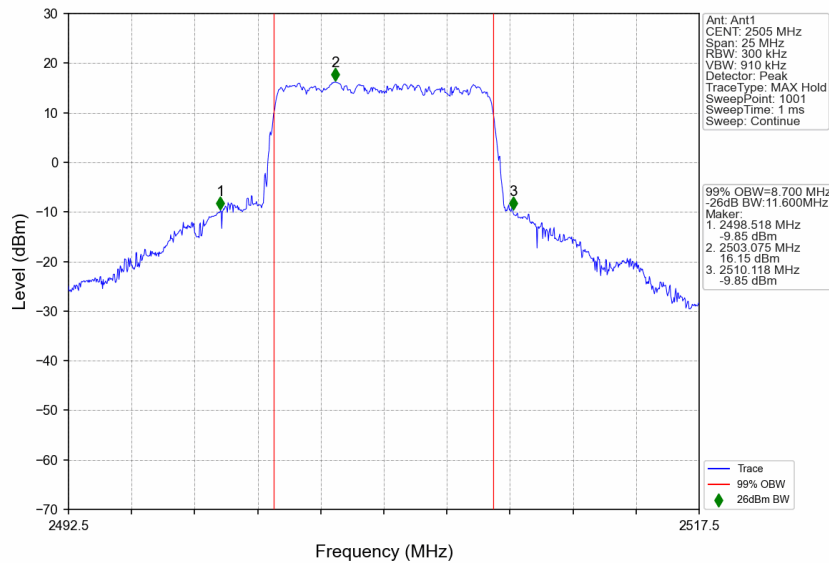
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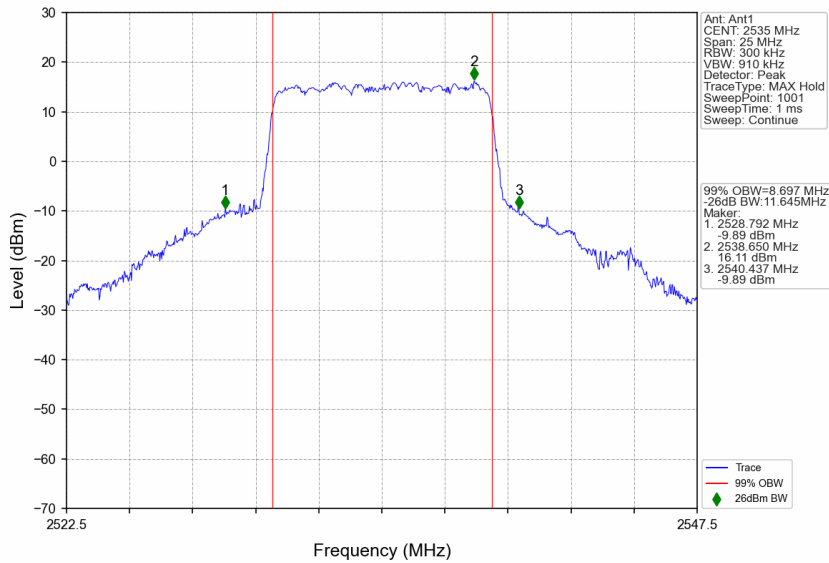


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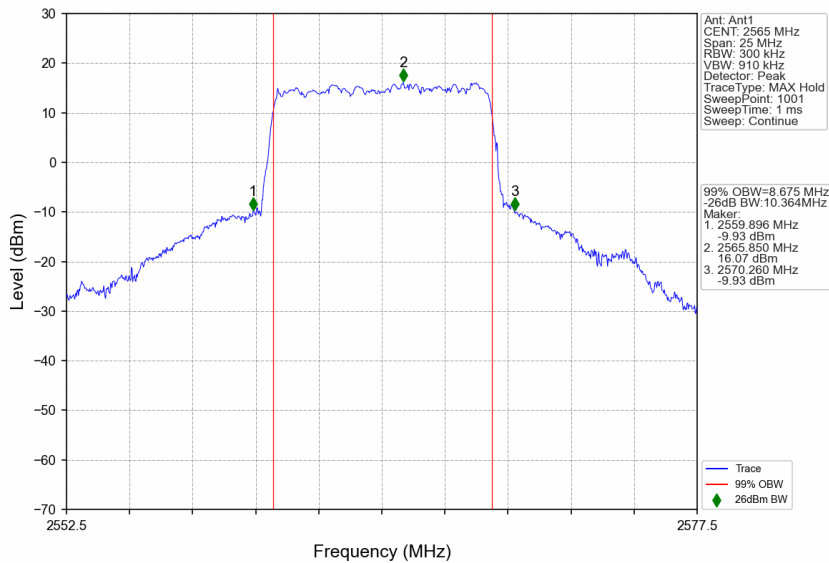
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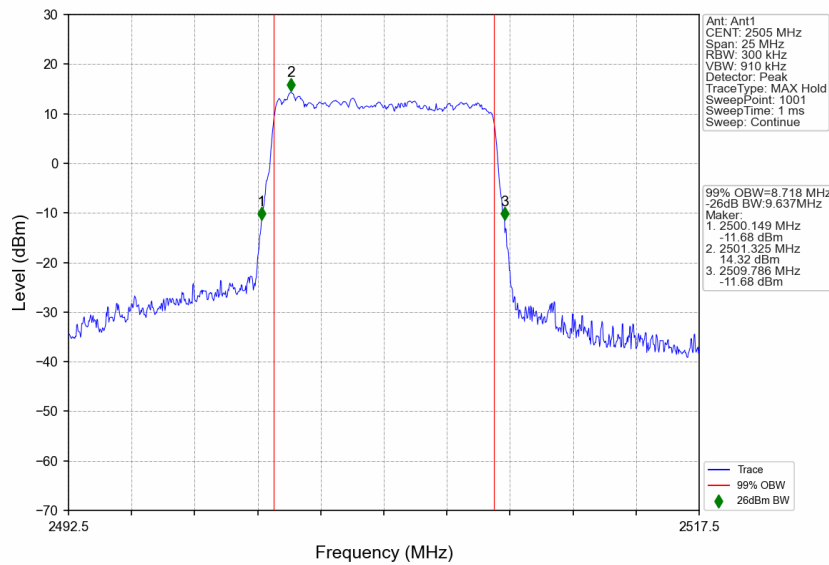


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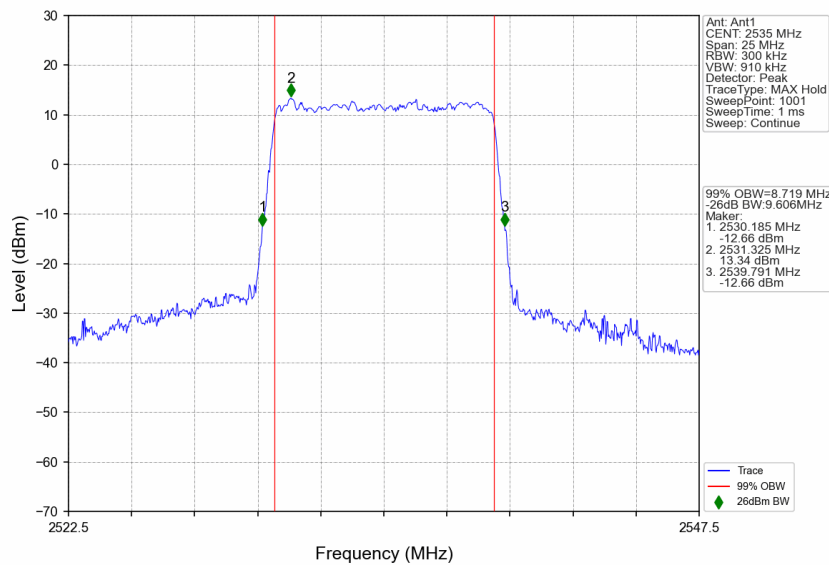
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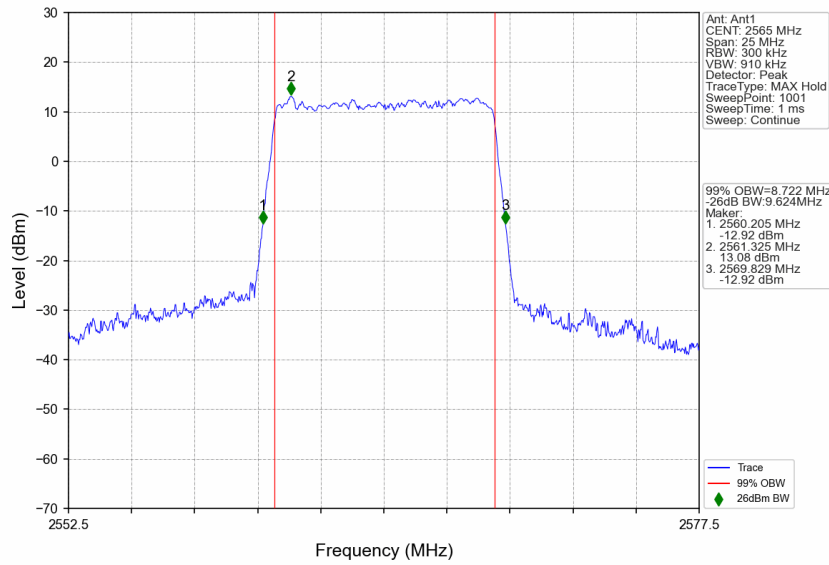


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4.10 30k_SISO_15MHz_NTNV

4.10.1 Test Result

| 5G NR n7 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 | 2507.5 | Outer_Full | 13.14 | 14.19 | / | Pass |
| | 2535 | Outer_Full | 13.12 | 14.21 | / | Pass |
| | 2562.5 | Outer_Full | 13.14 | 14.21 | / | Pass |
| DFT-s-OFDM QPSK | 2507.5 | Outer_Full | 13.09 | 14.20 | / | Pass |
| | 2535 | Outer_Full | 13.08 | 14.24 | / | Pass |
| | 2562.5 | Outer_Full | 13.09 | 14.27 | / | Pass |
| DFT-s-OFDM 16 QAM | 2507.5 | Outer_Full | 13.02 | 14.18 | / | Pass |
| | 2535 | Outer_Full | 13.00 | 14.18 | / | Pass |
| | 2562.5 | Outer_Full | 13.02 | 14.21 | / | Pass |
| DFT-s-OFDM 64 QAM | 2507.5 | Outer_Full | 13.12 | 14.27 | / | Pass |
| | 2535 | Outer_Full | 13.11 | 14.21 | / | Pass |
| | 2562.5 | Outer_Full | 13.12 | 14.24 | / | Pass |
| DFT-s-OFDM 256 QAM | 2507.5 | Outer_Full | 13.00 | 14.18 | / | Pass |
| | 2535 | Outer_Full | 12.99 | 14.15 | / | Pass |
| | 2562.5 | Outer_Full | 13.01 | 14.21 | / | Pass |
| CP-OFDM QPSK | 2507.5 | Outer_Full | 13.75 | 18.15 | / | Pass |
| | 2535 | Outer_Full | 13.72 | 17.18 | / | Pass |
| | 2562.5 | Outer_Full | 13.73 | 17.48 | / | Pass |
| CP-OFDM 16 QAM | 2507.5 | Outer_Full | 13.79 | 18.47 | / | Pass |
| | 2535 | Outer_Full | 13.76 | 18.61 | / | Pass |
| | 2562.5 | Outer_Full | 13.78 | 17.43 | / | Pass |
| CP-OFDM 64 QAM | 2507.5 | Outer_Full | 13.84 | 18.18 | / | Pass |
| | 2535 | Outer_Full | 13.80 | 15.22 | / | Pass |
| | 2562.5 | Outer_Full | 13.80 | 15.37 | / | Pass |
| CP-OFDM 256 QAM | 2507.5 | Outer_Full | 13.74 | 14.94 | / | Pass |
| | 2535 | Outer_Full | 13.71 | 14.87 | / | Pass |
| | 2562.5 | Outer_Full | 13.73 | 14.98 | / | Pass |

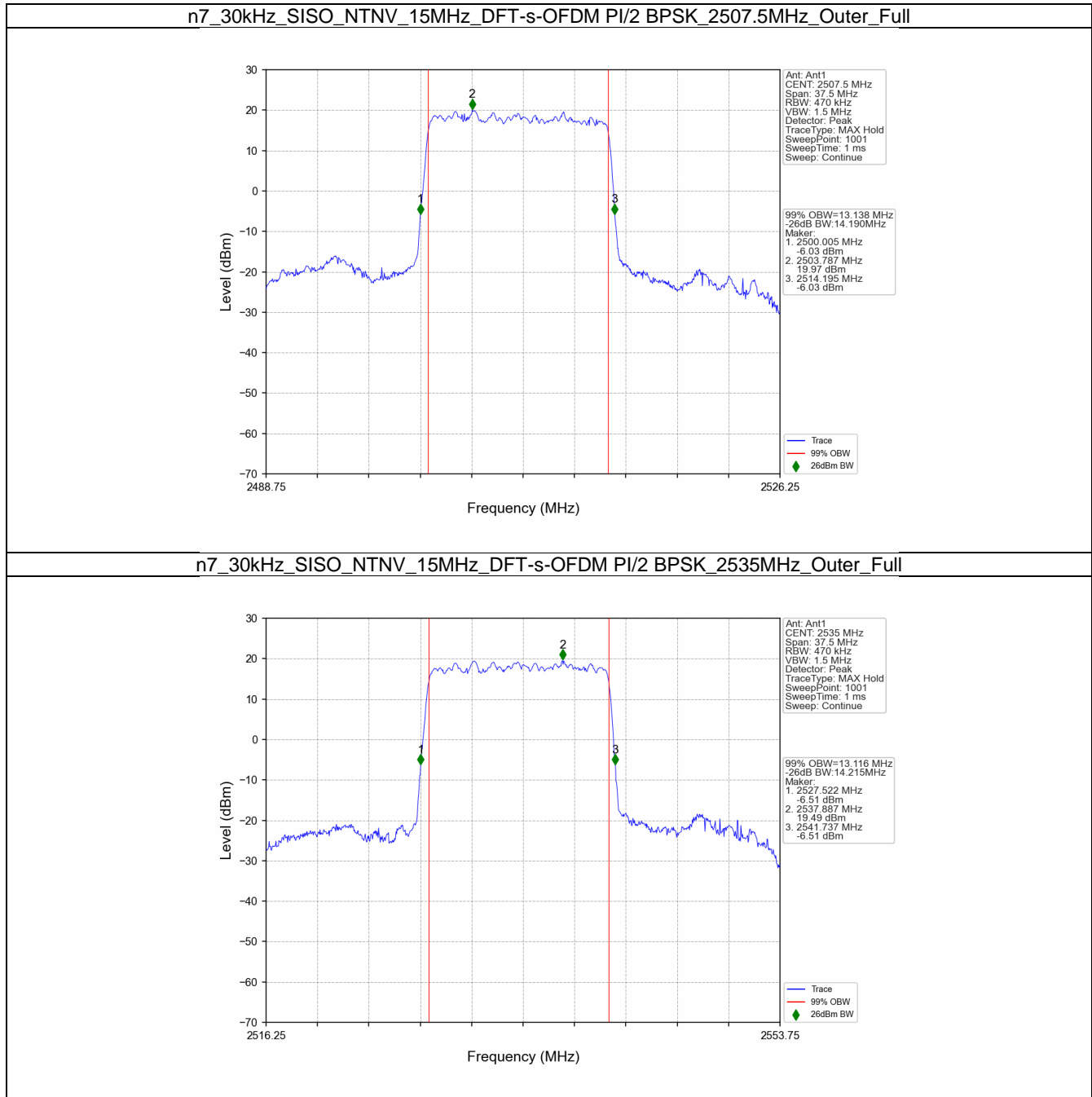


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4.10.2 Test Graph

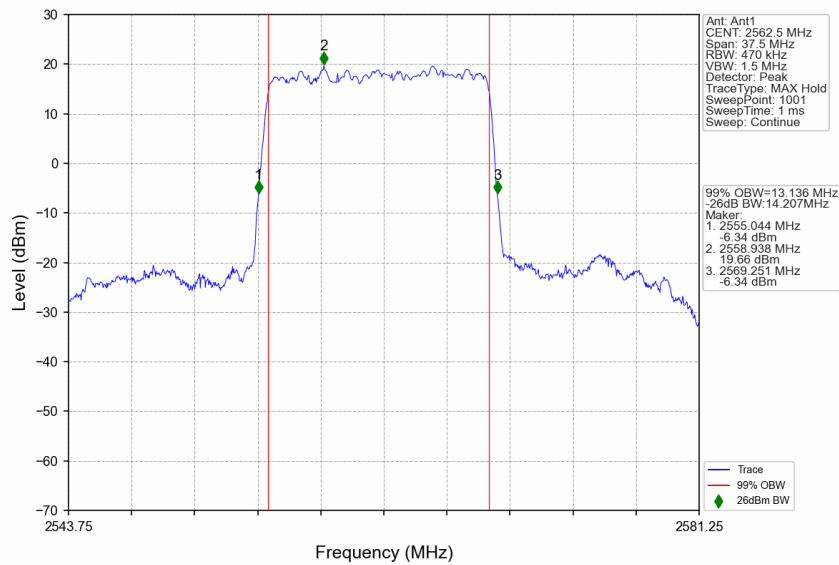


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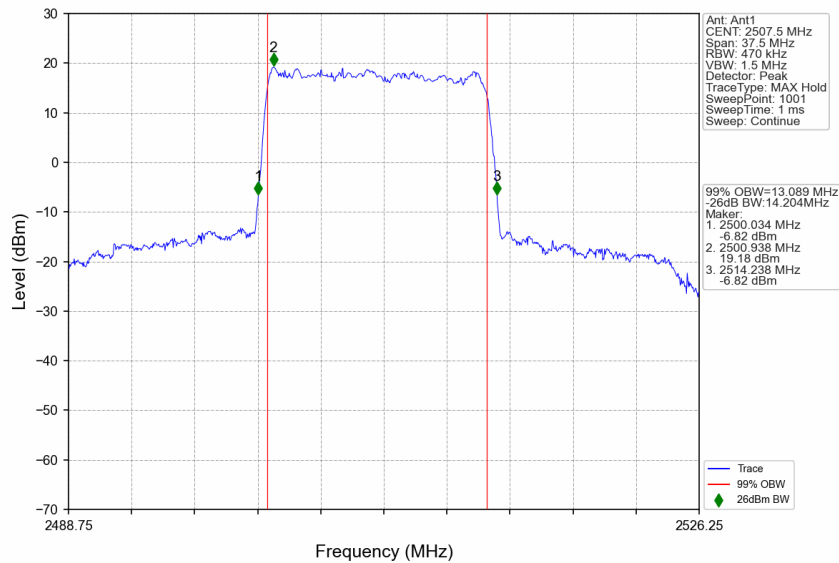
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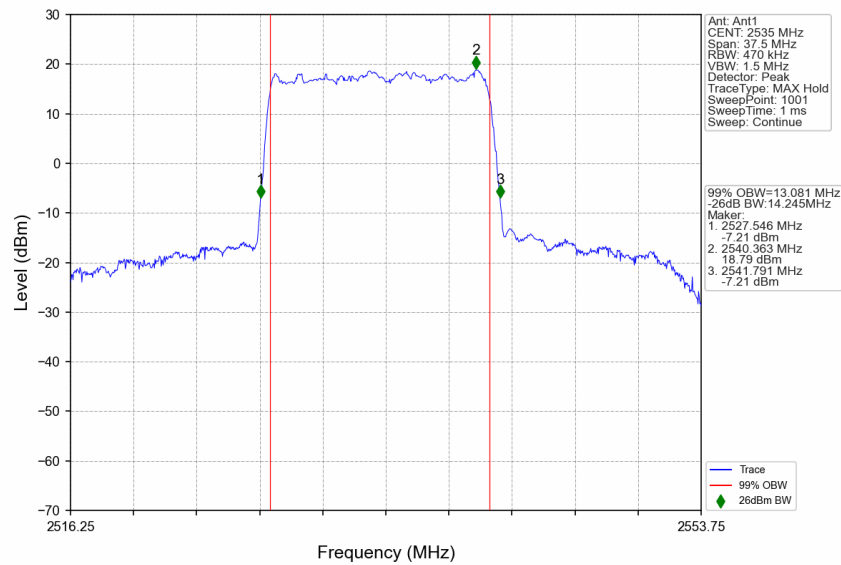


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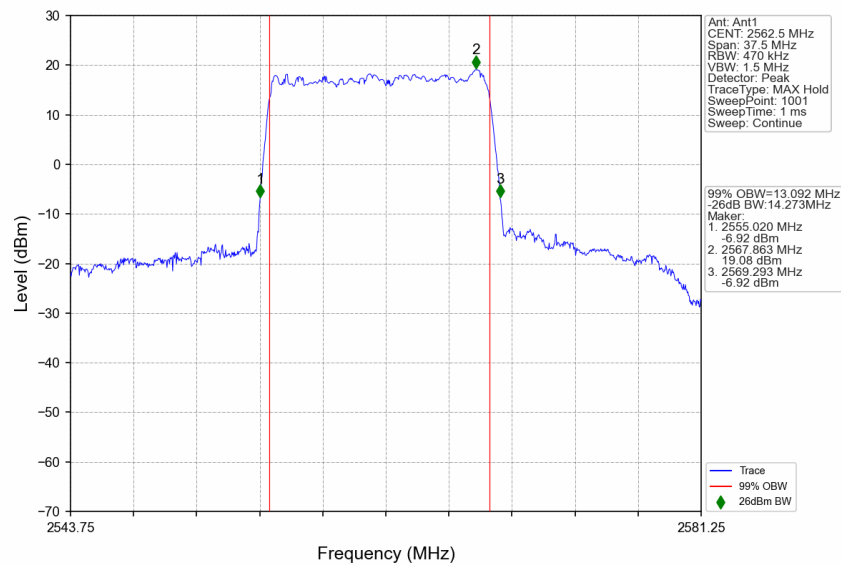
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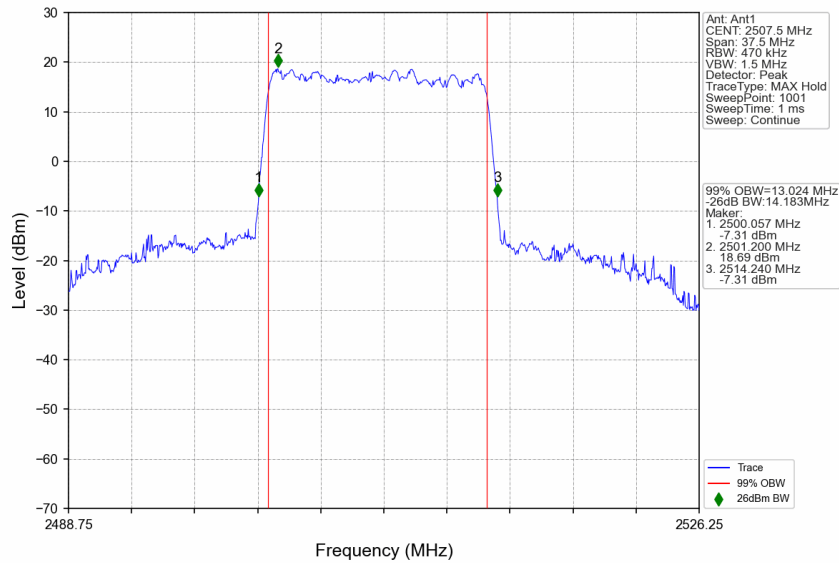
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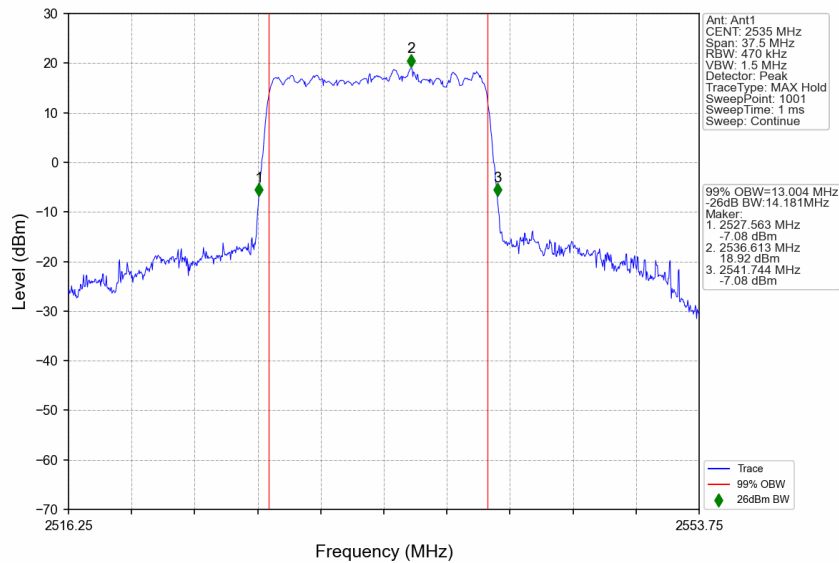
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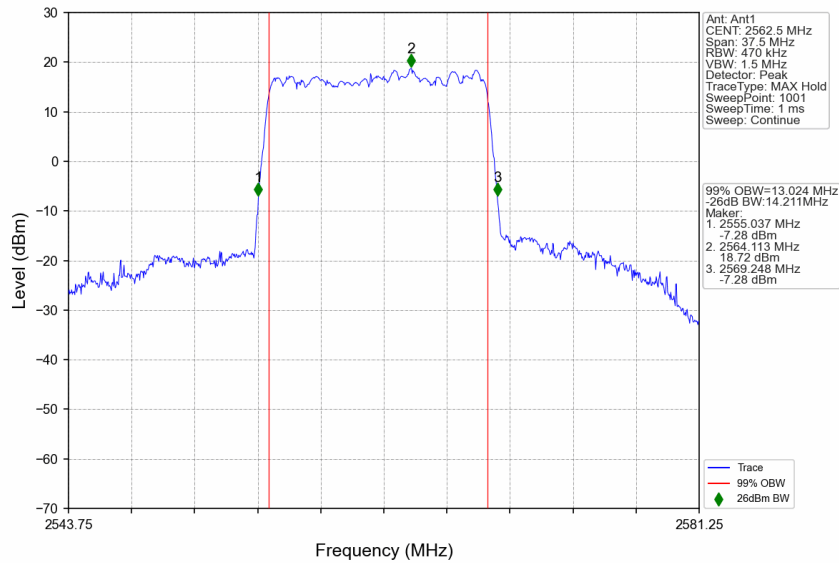


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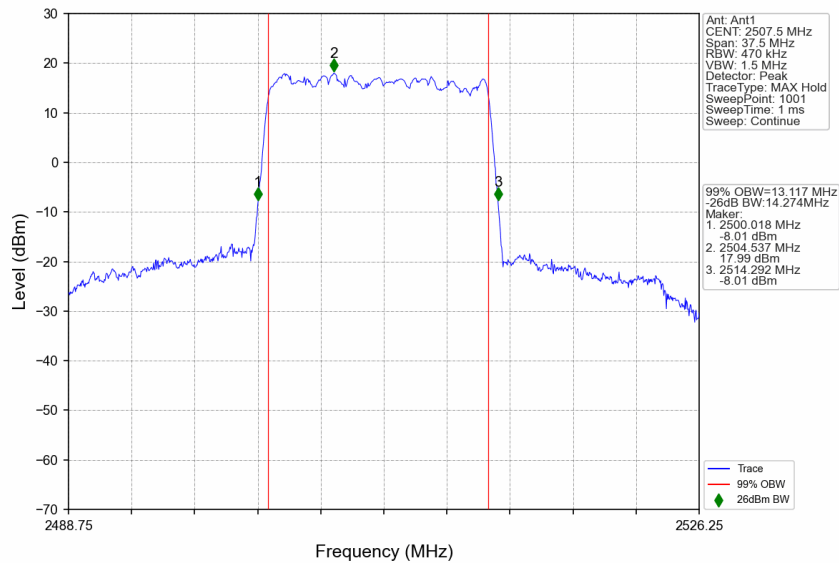
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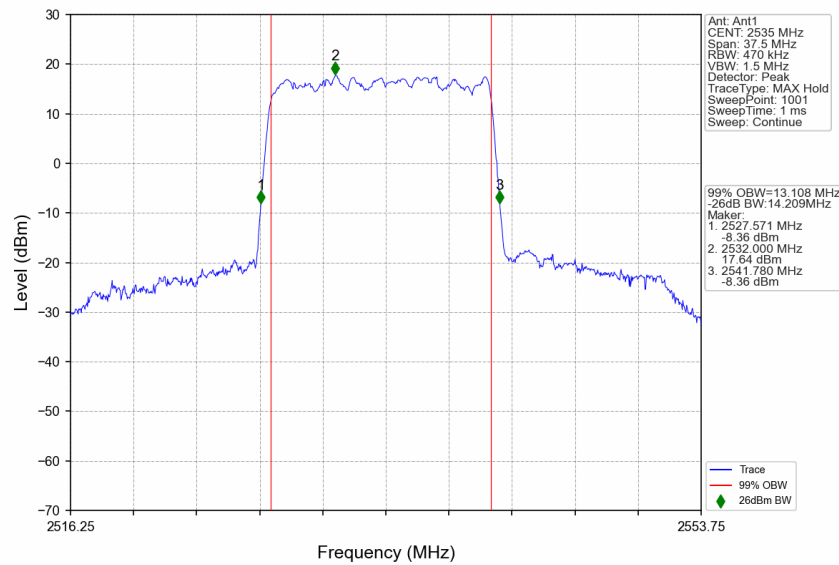


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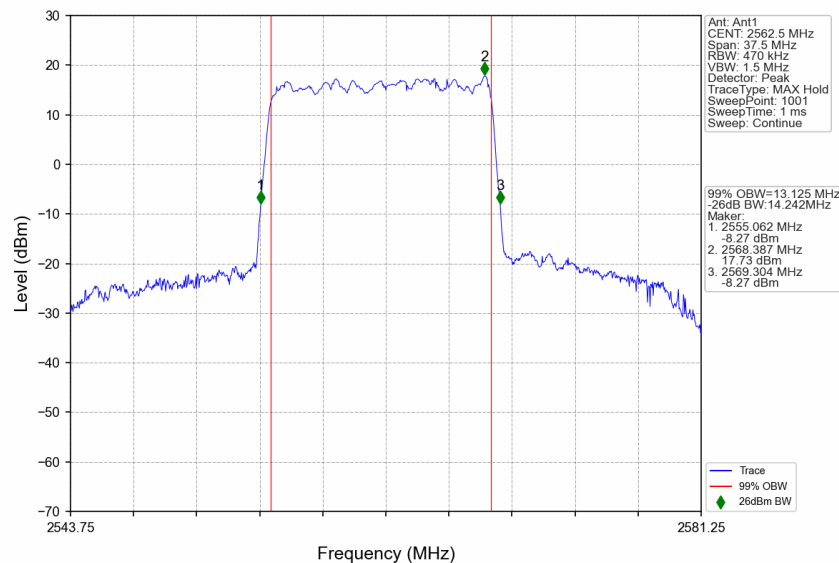
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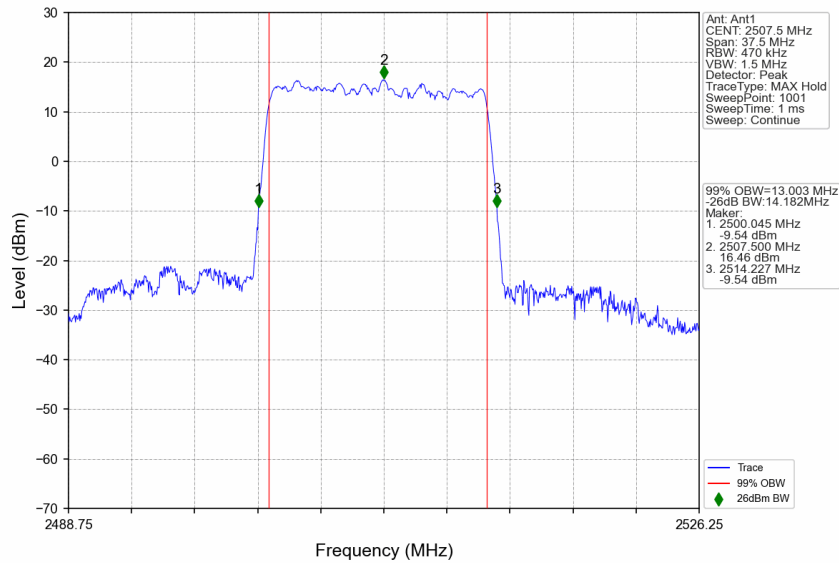


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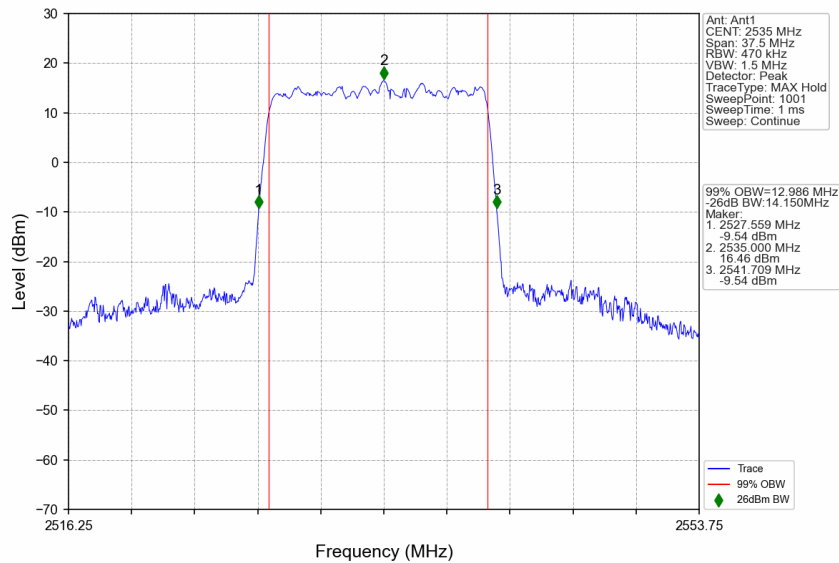
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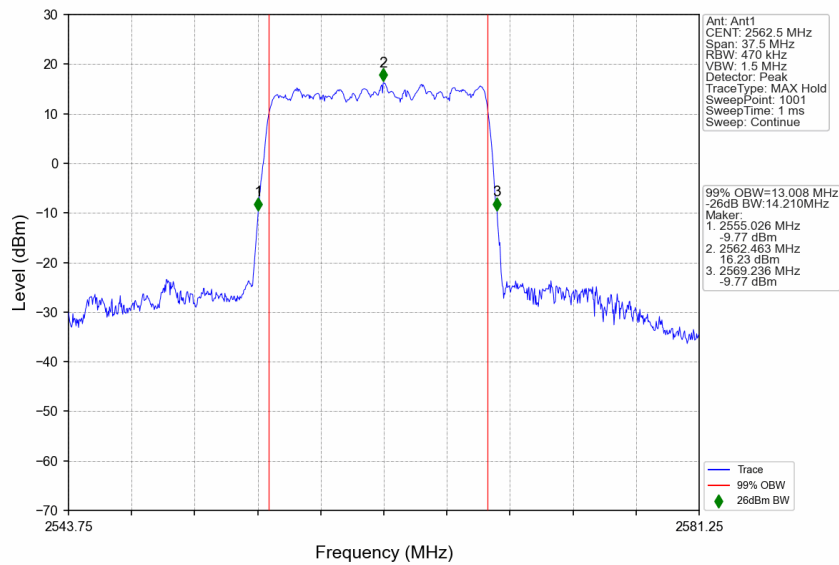
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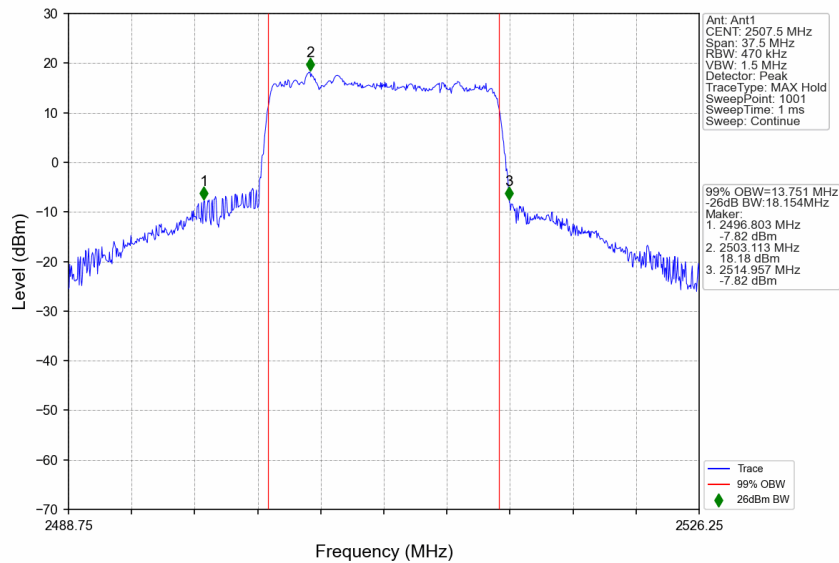
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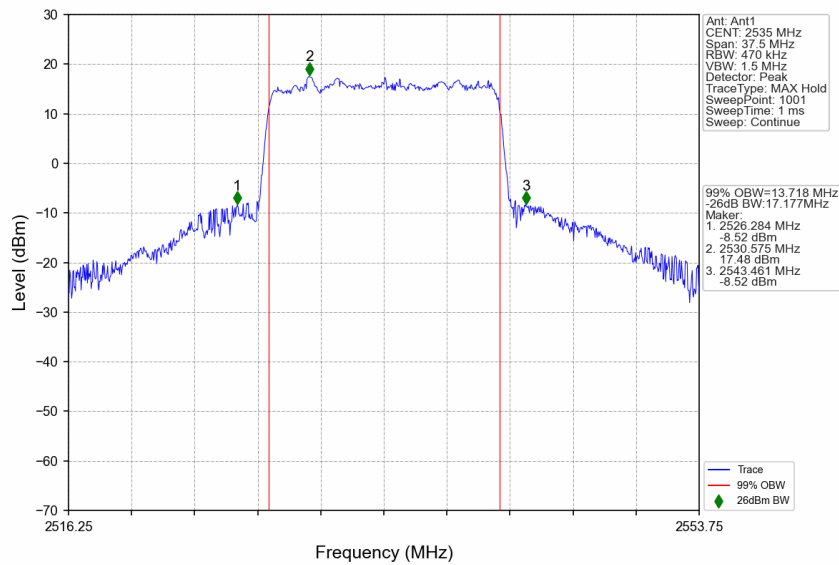


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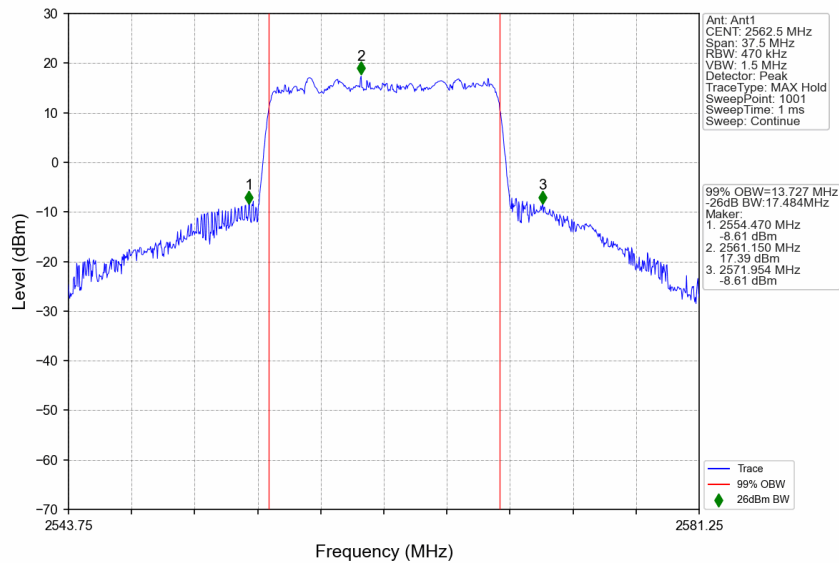
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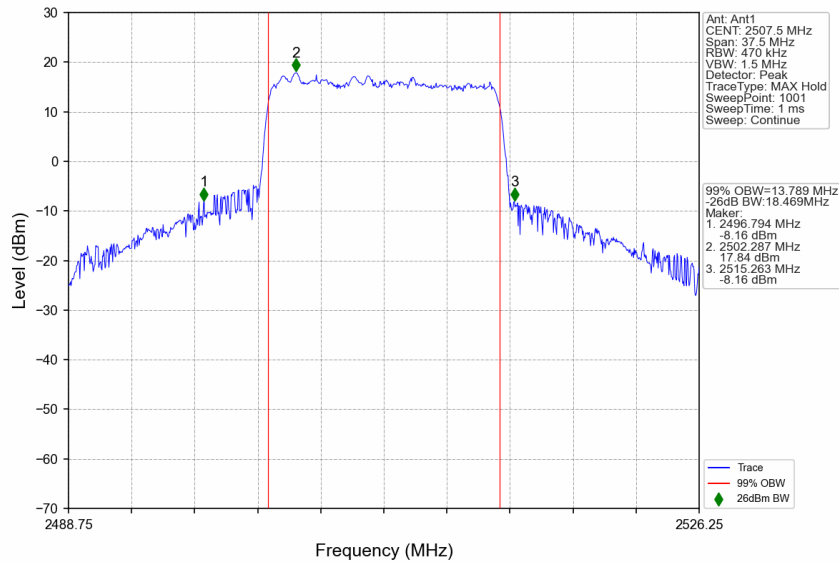


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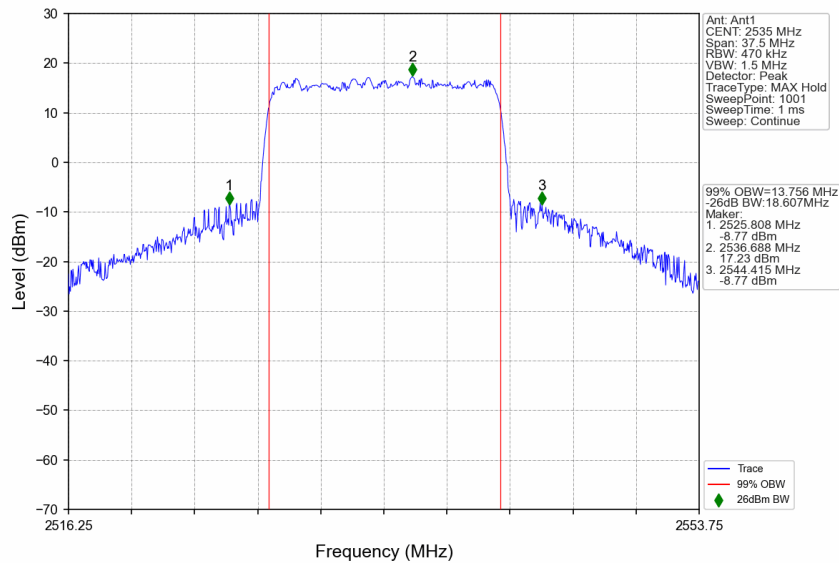
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n7_30kHz_SISO_NTNV_15MHz_CP-OFDM 16 QAM_2507.5MHz_Outer_Full



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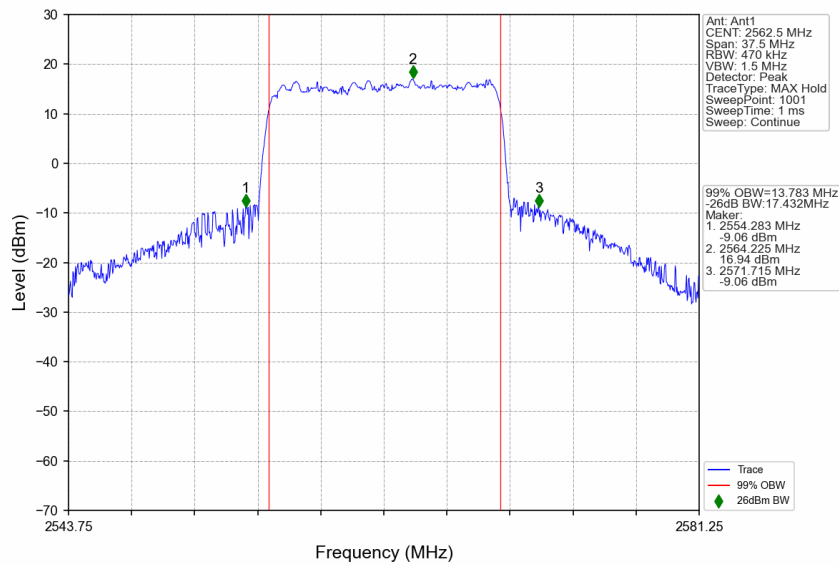
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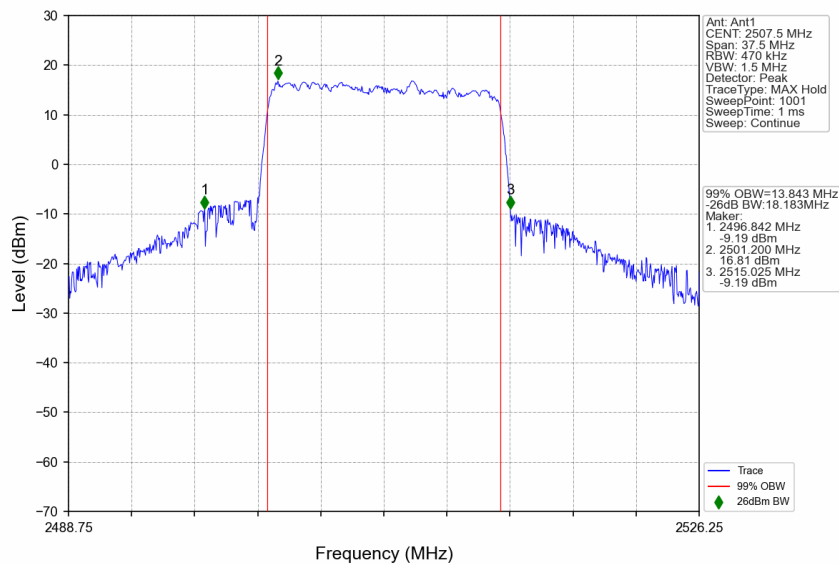
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n7_30kHz_SISO_NTNV_15MHz_CP-OFDM 16 QAM_2562.5MHz_Outer_Full



n7_30kHz_SISO_NTNV_15MHz_CP-OFDM 64 QAM_2507.5MHz_Outer_Full

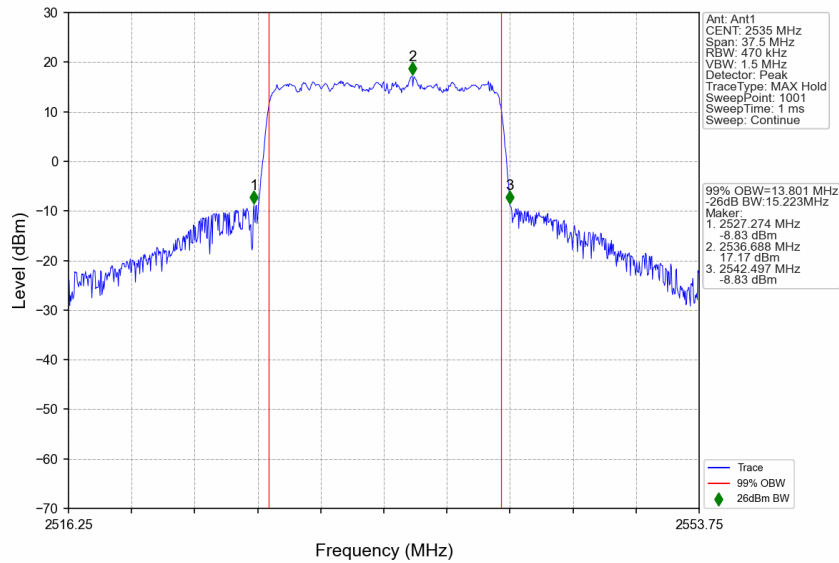


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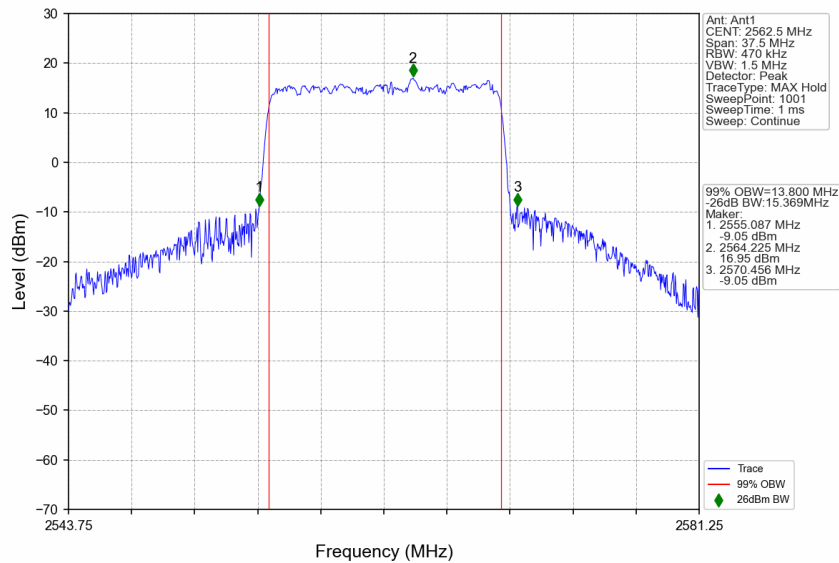
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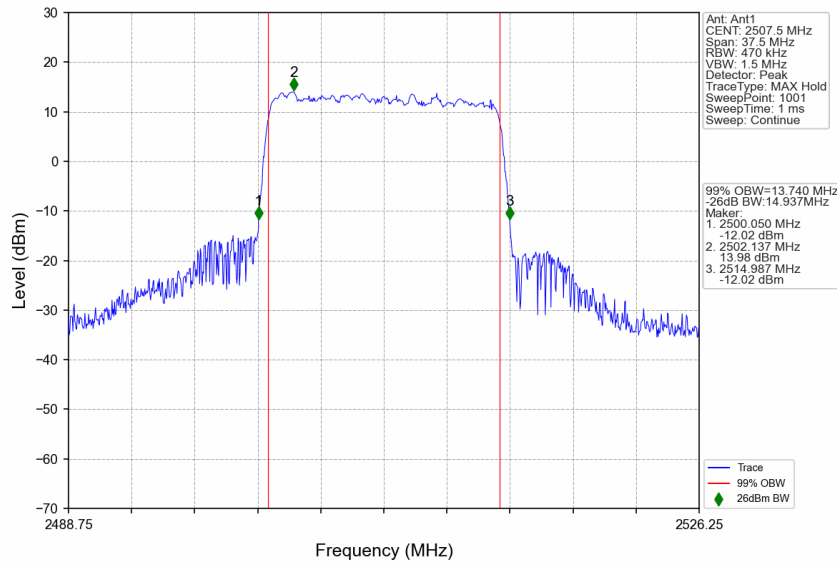


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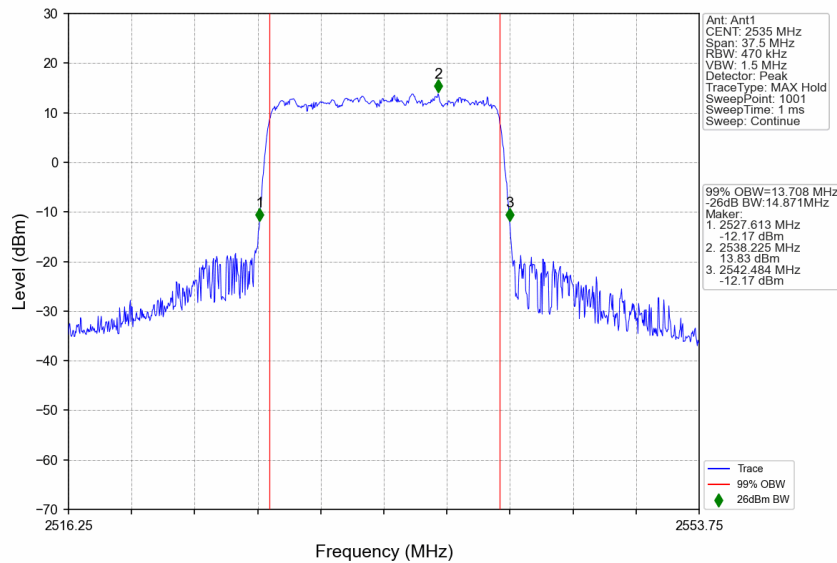
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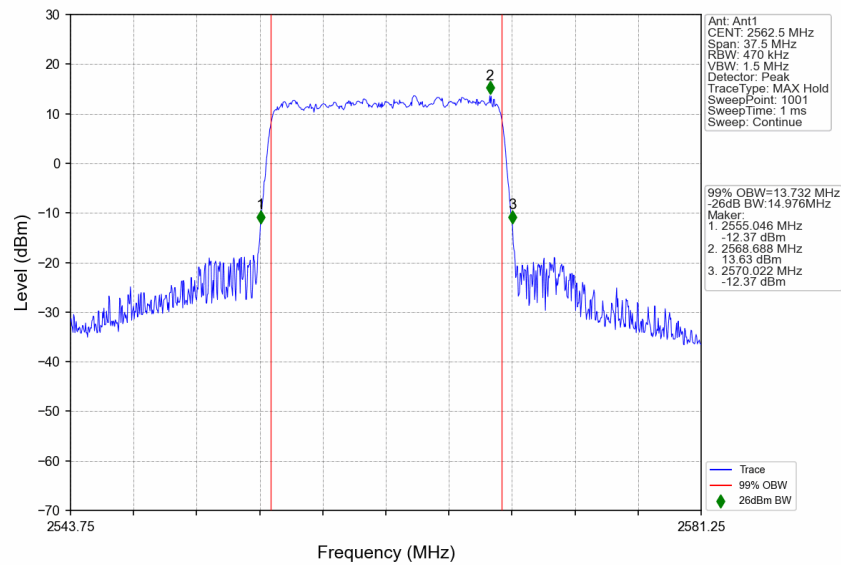


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n7_30kHz_SISO_NTNV_15MHz_CP-OFDM 256 QAM_2562.5MHz_Outer_Full



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4.11 30k_SISO_20MHz_NTNV

4.11.1 Test Result

| 5G NR n7 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 | 2510 | Outer_Full | 18.23 | 19.55 | / | Pass |
| | 2535 | Outer_Full | 18.20 | 19.55 | / | Pass |
| | 2560 | Outer_Full | 18.24 | 19.55 | / | Pass |
| DFT-s-OFDM QPSK | 2510 | Outer_Full | 18.07 | 19.43 | / | Pass |
| | 2535 | Outer_Full | 18.04 | 19.42 | / | Pass |
| | 2560 | Outer_Full | 18.10 | 19.39 | / | Pass |
| DFT-s-OFDM 16 QAM | 2510 | Outer_Full | 18.06 | 19.46 | / | Pass |
| | 2535 | Outer_Full | 18.01 | 19.40 | / | Pass |
| | 2560 | Outer_Full | 18.07 | 19.43 | / | Pass |
| DFT-s-OFDM 64 QAM | 2510 | Outer_Full | 18.15 | 19.48 | / | Pass |
| | 2535 | Outer_Full | 18.10 | 19.52 | / | Pass |
| | 2560 | Outer_Full | 18.15 | 19.54 | / | Pass |
| DFT-s-OFDM 256 QAM | 2510 | Outer_Full | 18.05 | 19.40 | / | Pass |
| | 2535 | Outer_Full | 17.99 | 19.39 | / | Pass |
| | 2560 | Outer_Full | 18.06 | 19.42 | / | Pass |
| CP-OFDM QPSK | 2510 | Outer_Full | 18.45 | 24.08 | / | Pass |
| | 2535 | Outer_Full | 18.37 | 21.82 | / | Pass |
| | 2560 | Outer_Full | 18.45 | 20.91 | / | Pass |
| CP-OFDM 16 QAM | 2510 | Outer_Full | 18.51 | 22.01 | / | Pass |
| | 2535 | Outer_Full | 18.43 | 20.37 | / | Pass |
| | 2560 | Outer_Full | 18.50 | 21.36 | / | Pass |
| CP-OFDM 64 QAM | 2510 | Outer_Full | 18.47 | 19.87 | / | Pass |
| | 2535 | Outer_Full | 18.39 | 19.86 | / | Pass |
| | 2560 | Outer_Full | 18.47 | 20.59 | / | Pass |
| CP-OFDM 256 QAM | 2510 | Outer_Full | 18.38 | 19.75 | / | Pass |
| | 2535 | Outer_Full | 18.34 | 19.74 | / | Pass |
| | 2560 | Outer_Full | 18.41 | 19.80 | / | Pass |

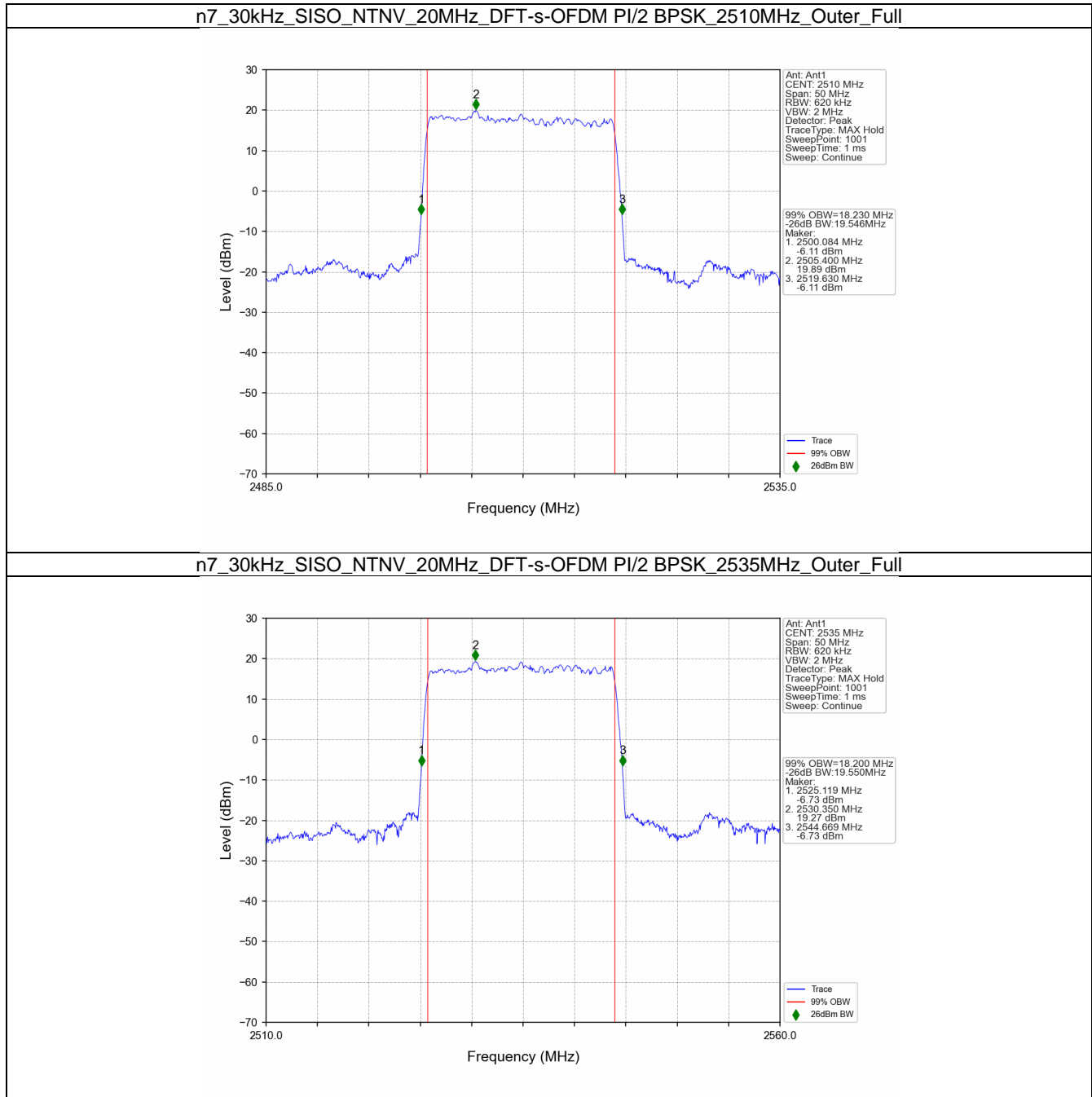


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4.11.2 Test Graph

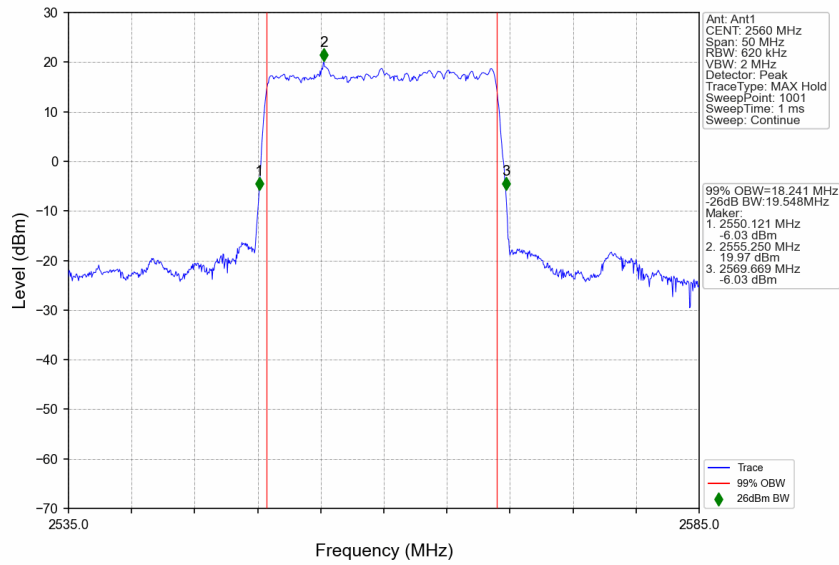


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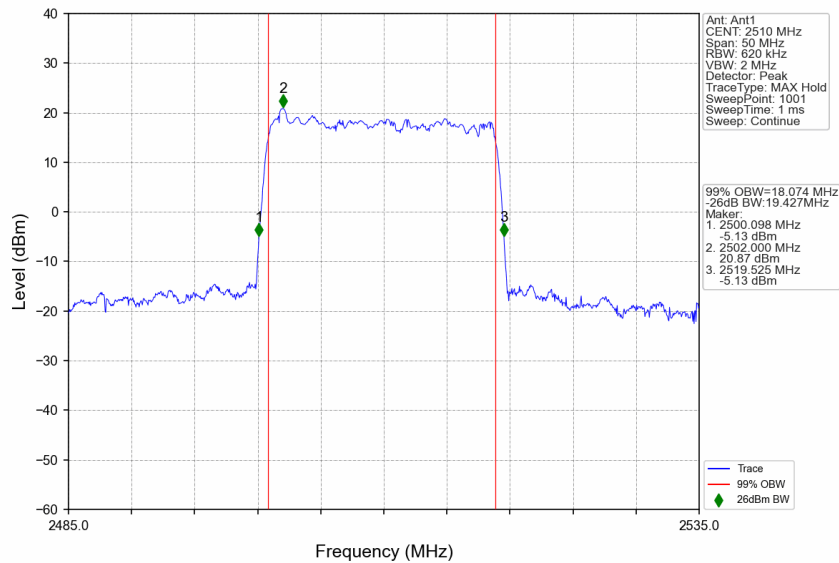
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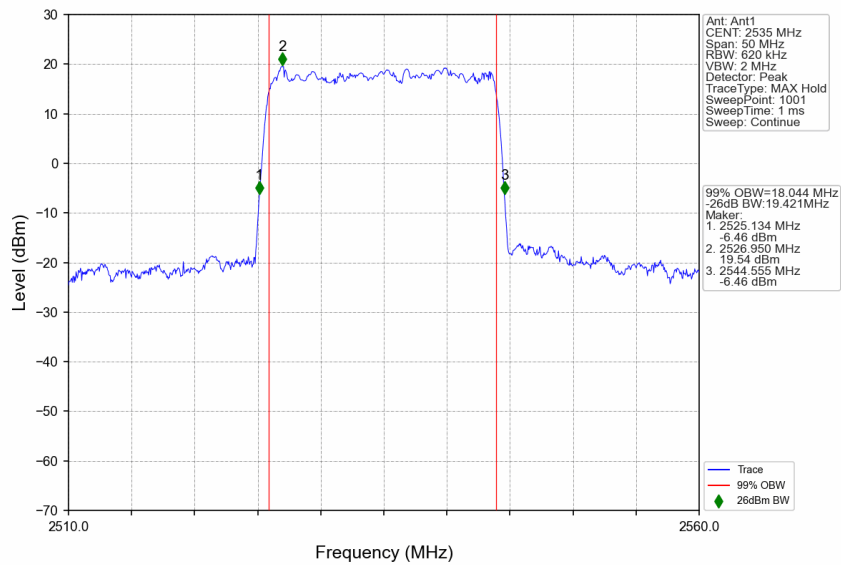


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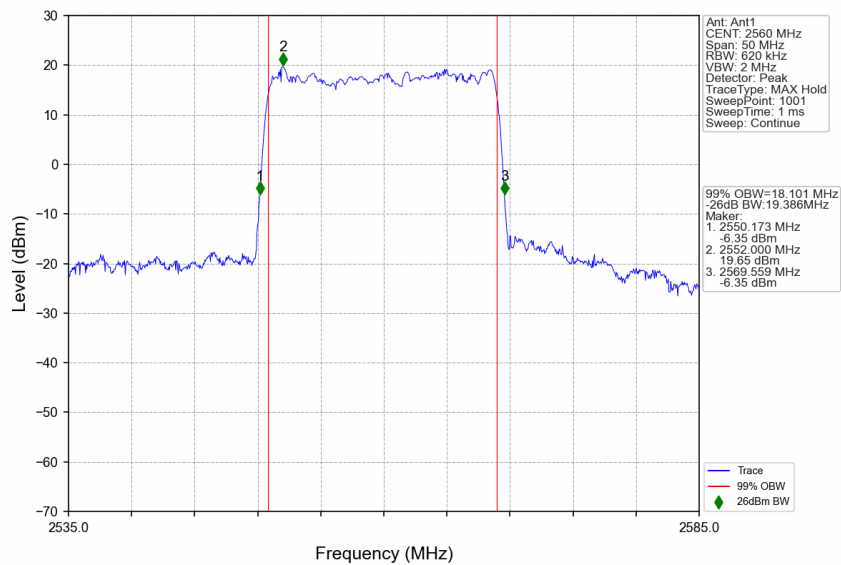
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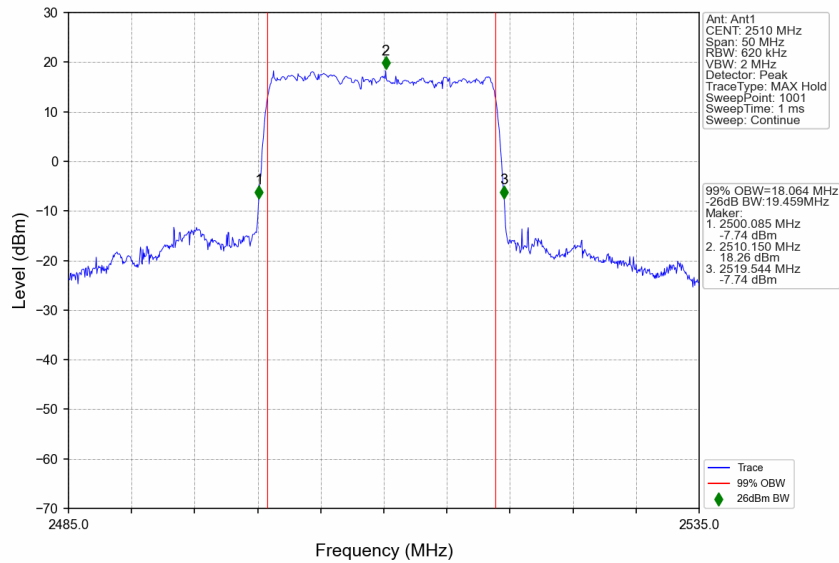


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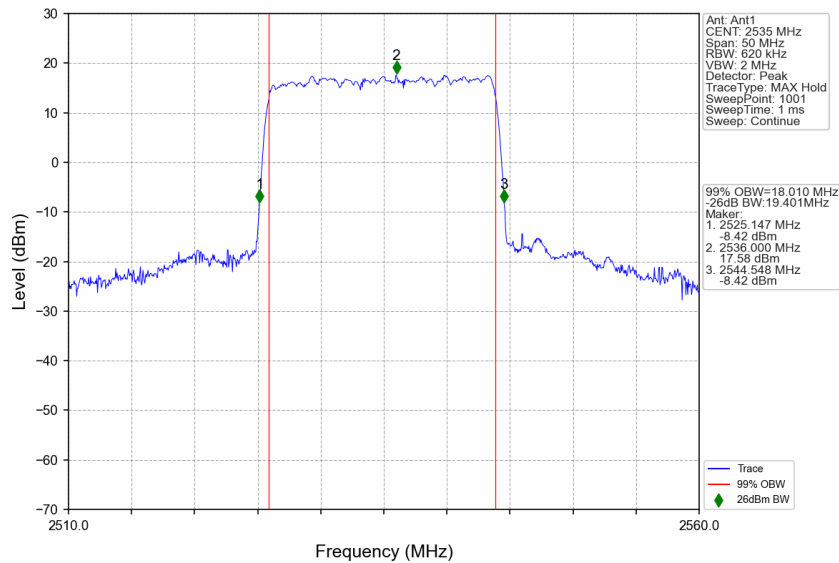
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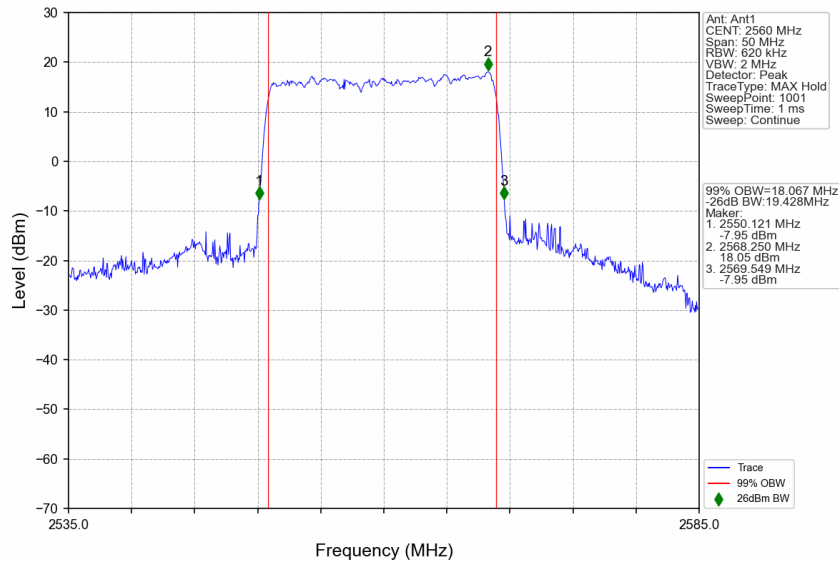


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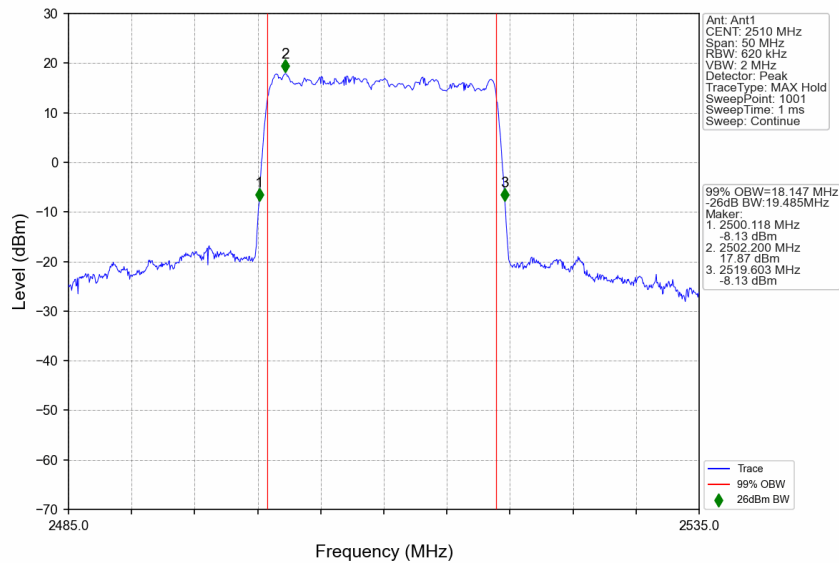
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n7_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 16 QAM_2560MHz_Outer_Full



n7_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 64 QAM_2510MHz_Outer_Full

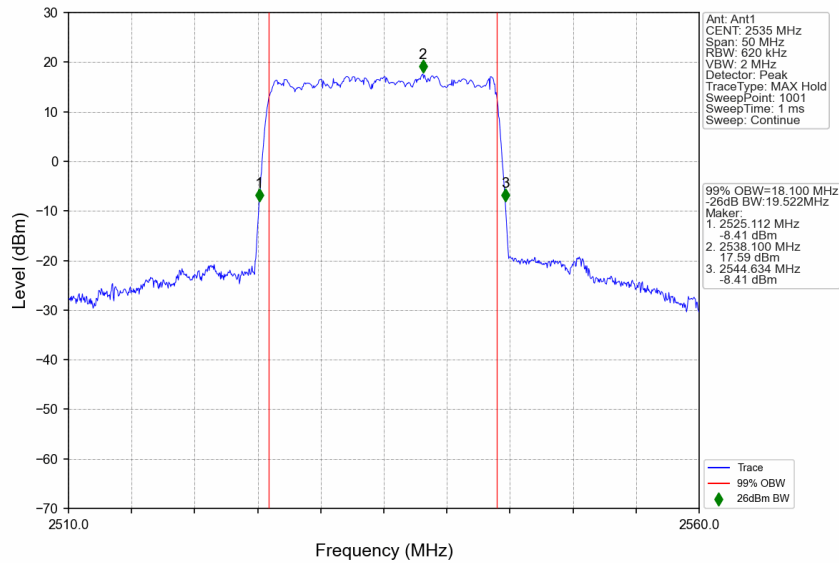


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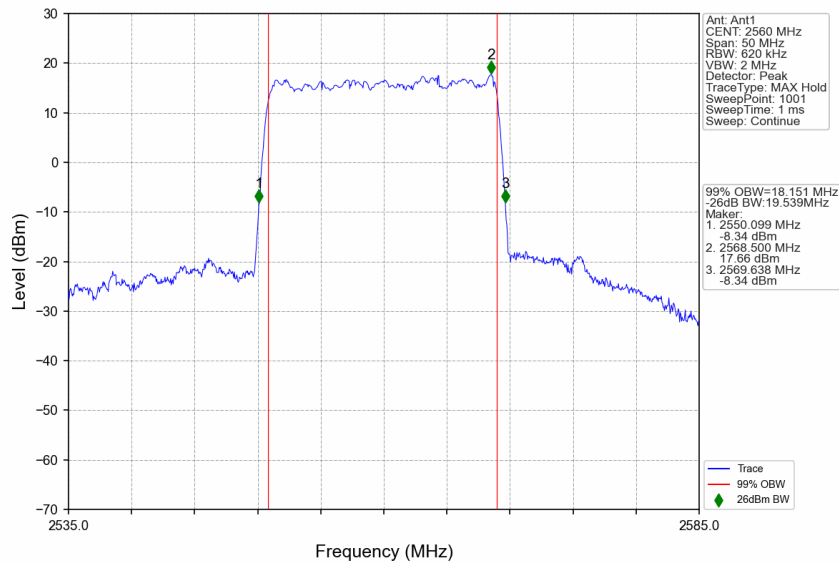
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n7_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 64 QAM_2535MHz_Outer_Full



n7_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 64 QAM_2560MHz_Outer_Full

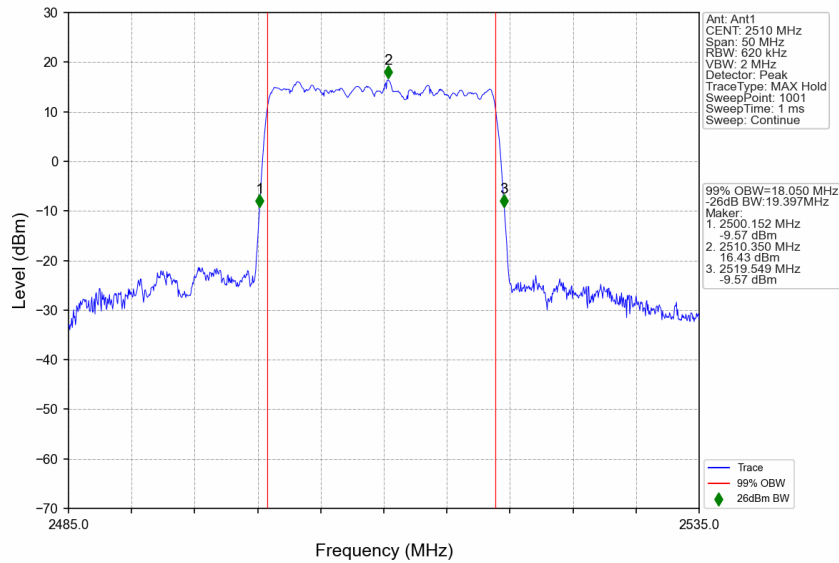


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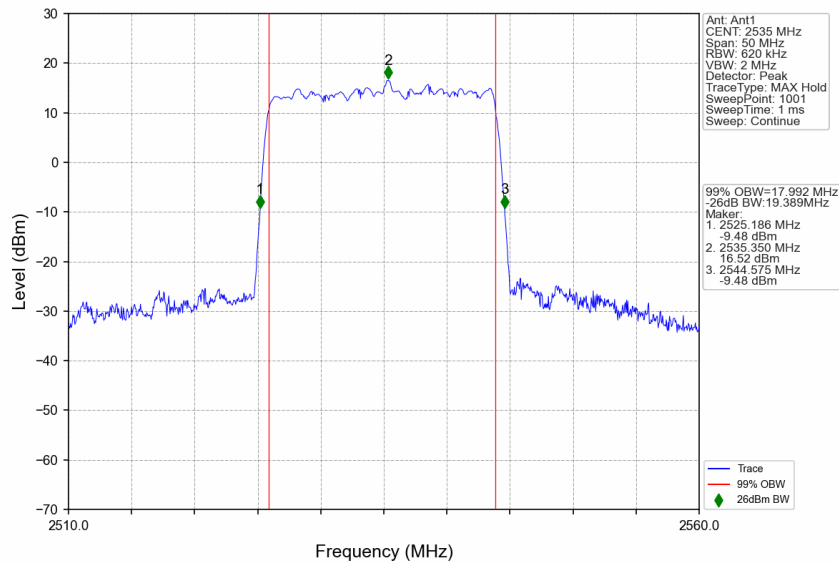
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n7_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 256 QAM_2510MHz_Outer_Full



n7_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 256 QAM_2535MHz_Outer_Full

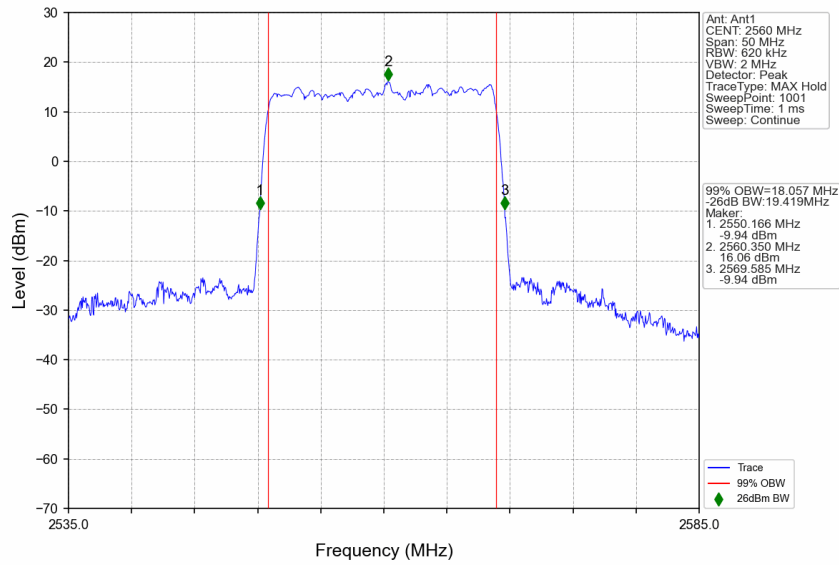


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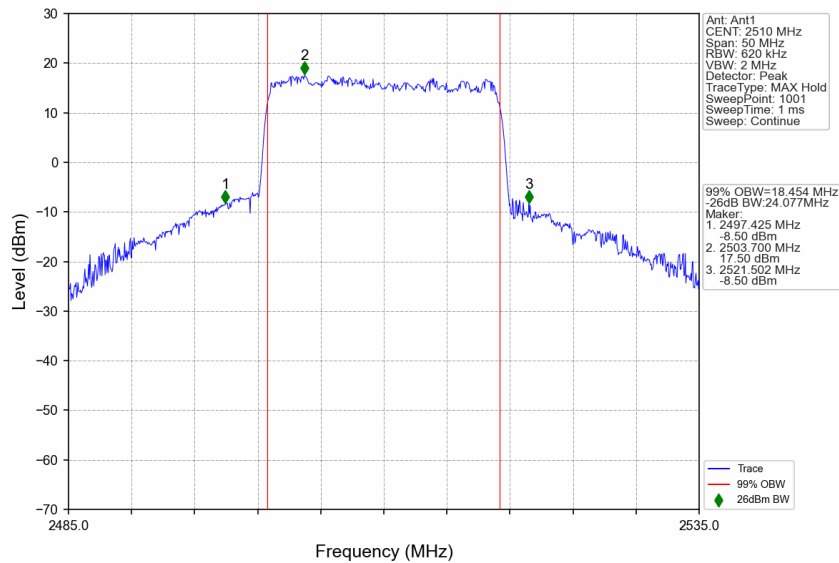
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n7_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 256 QAM_2560MHz_Outer_Full



n7_30kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_2510MHz_Outer_Full

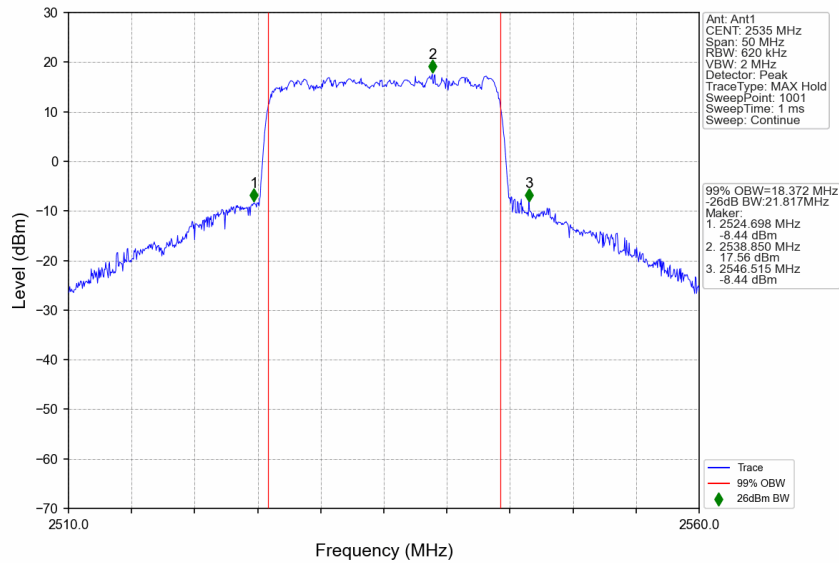


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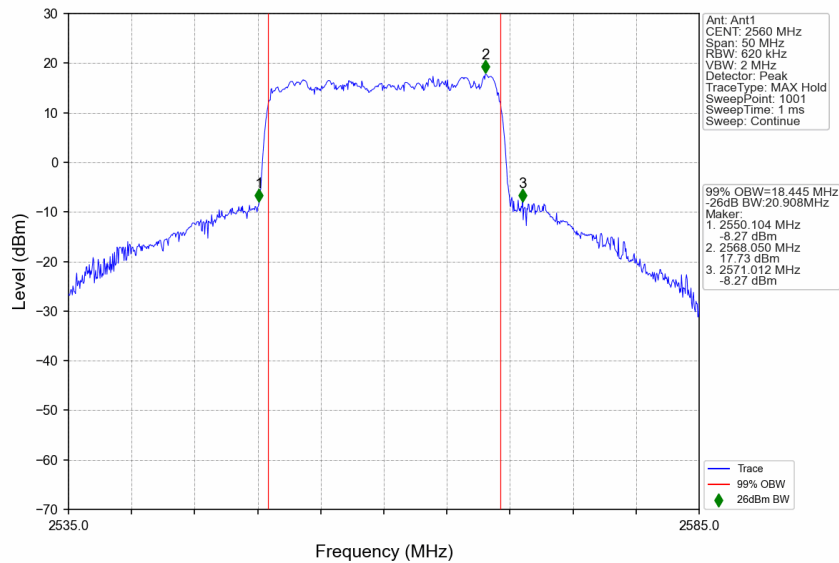
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n7_30kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_2535MHz_Outer_Full



n7_30kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_2560MHz_Outer_Full



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