

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

1. 99% & 26dB Bandwidth

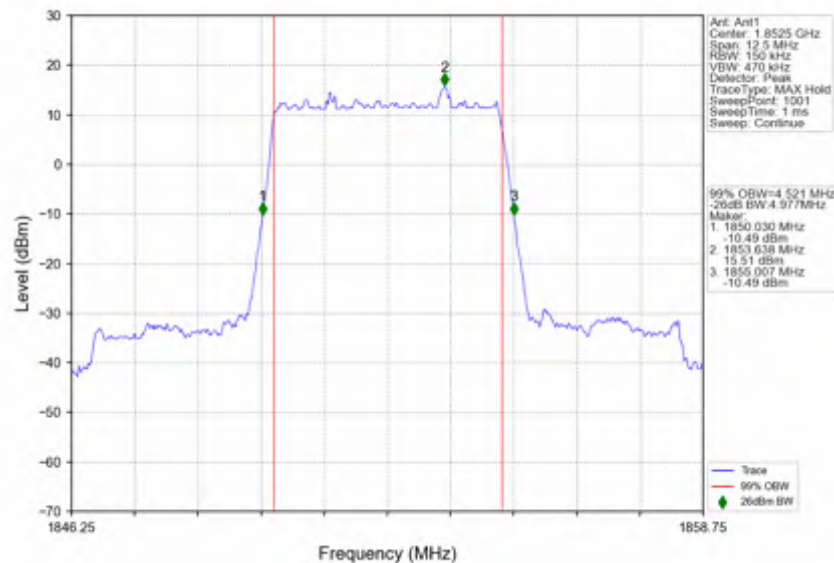
1.1 n2 15k_SISO_5MHz_NTNV

1.1.1 Test Result

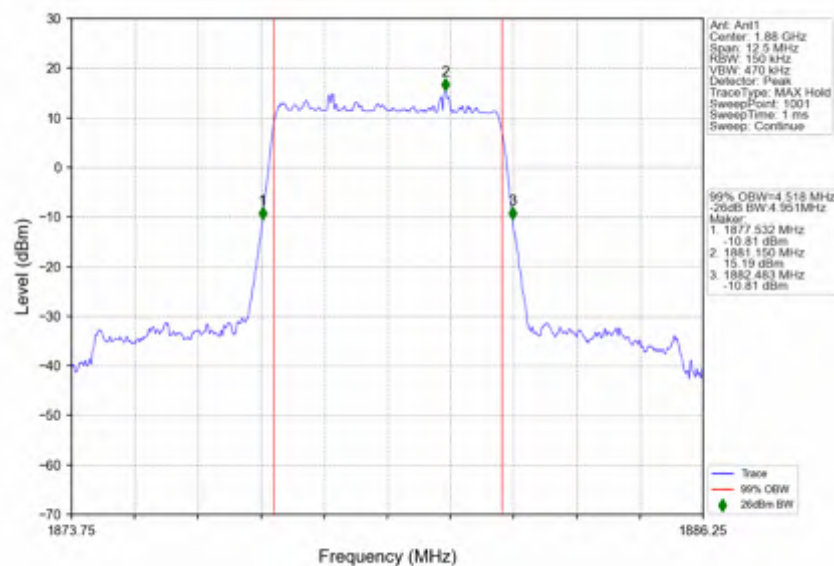
5G NR n2 SCS=15kHz SISO 5MHz NTNv						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	1852.5	Outer_Full	4.52	4.98	/	Pass
	1880	Outer_Full	4.52	4.95	/	Pass
	1907.5	Outer_Full	4.50	4.94	/	Pass
DFT-s-OFDM QPSK	1852.5	Outer_Full	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

n2_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_1852.5MHz_Outer_Full



n2_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_1880MHz_Outer_Full



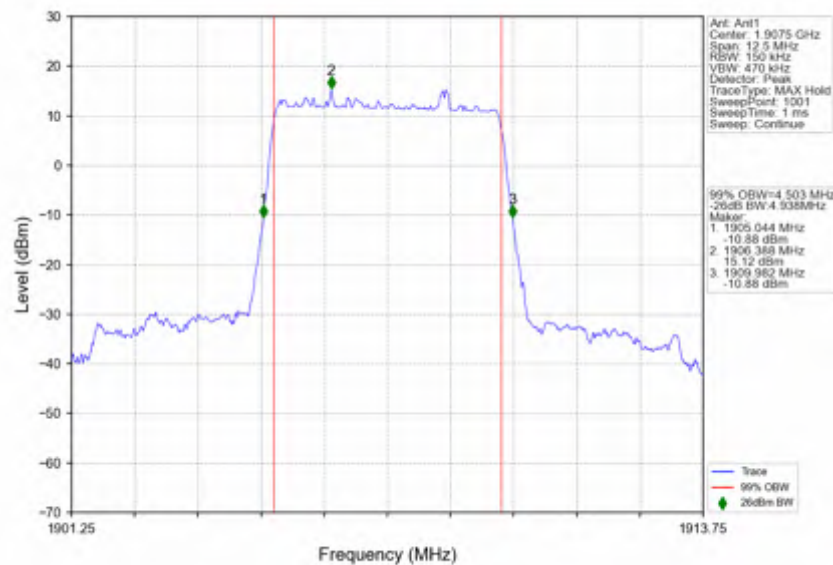
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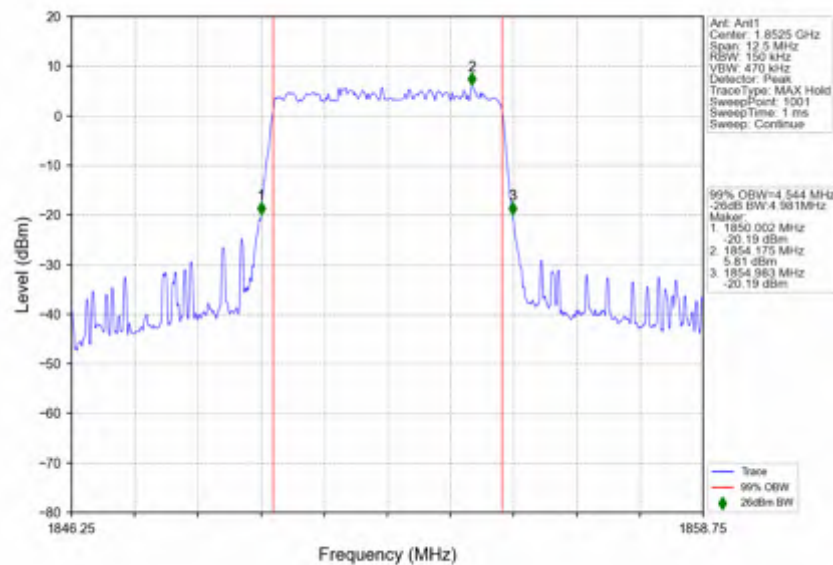
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n2_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_1907.5MHz_Outer_Full



n2_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_1852.5MHz_Outer_Full



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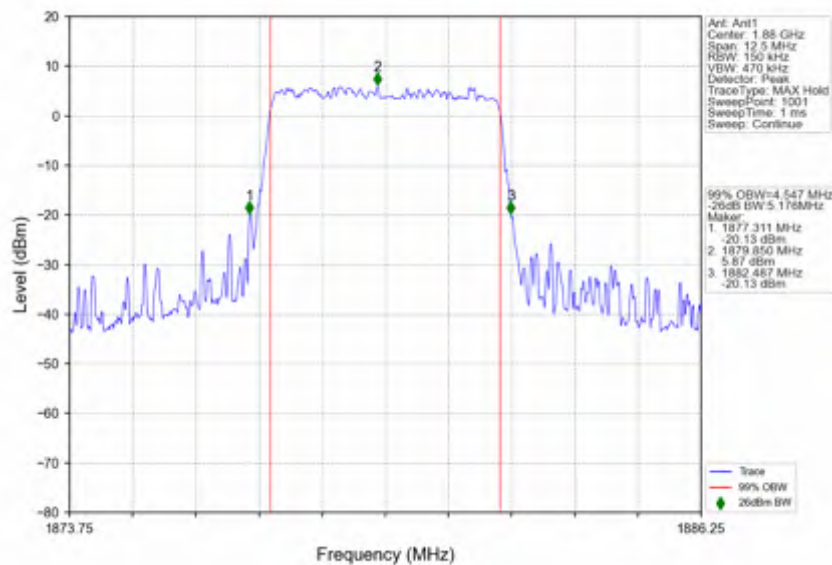
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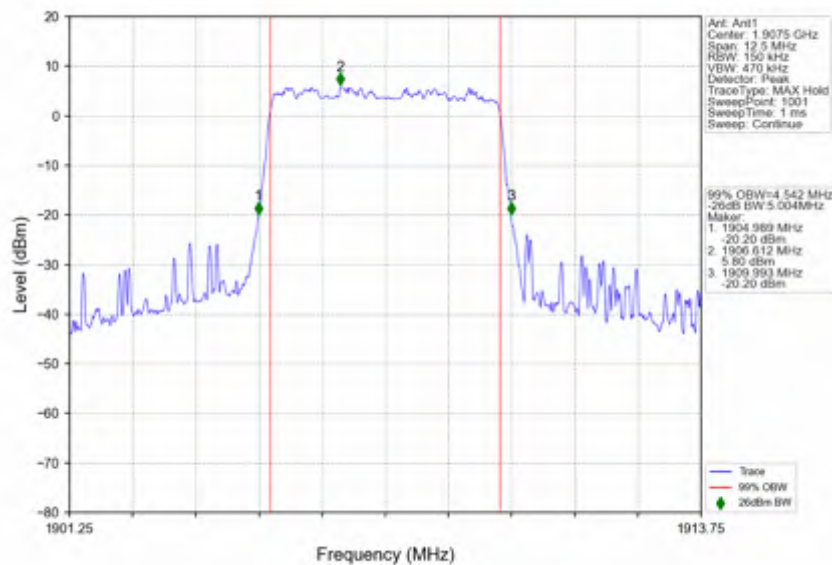
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n2_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_1907.5MHz_Outer_Full



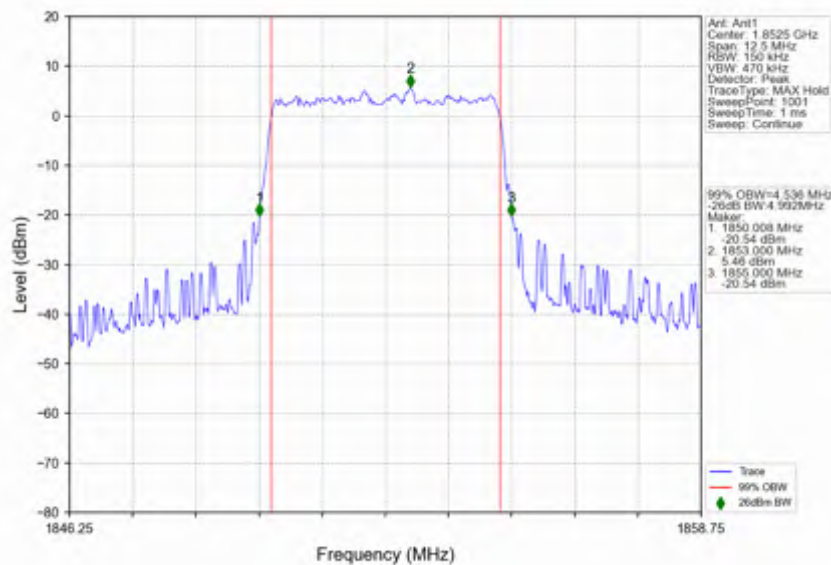
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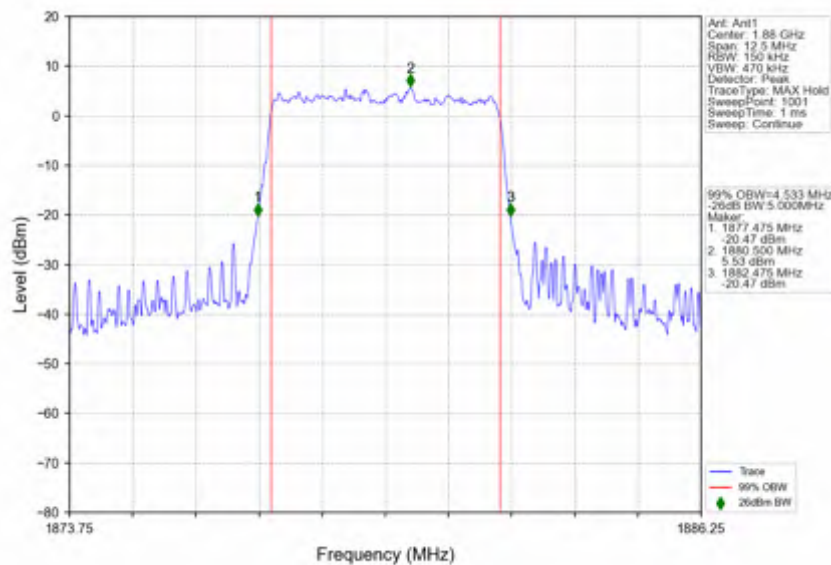
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n2_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_16_QAM_1852.5MHz_Outer_Full



n2_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_16_QAM_1880MHz_Outer_Full



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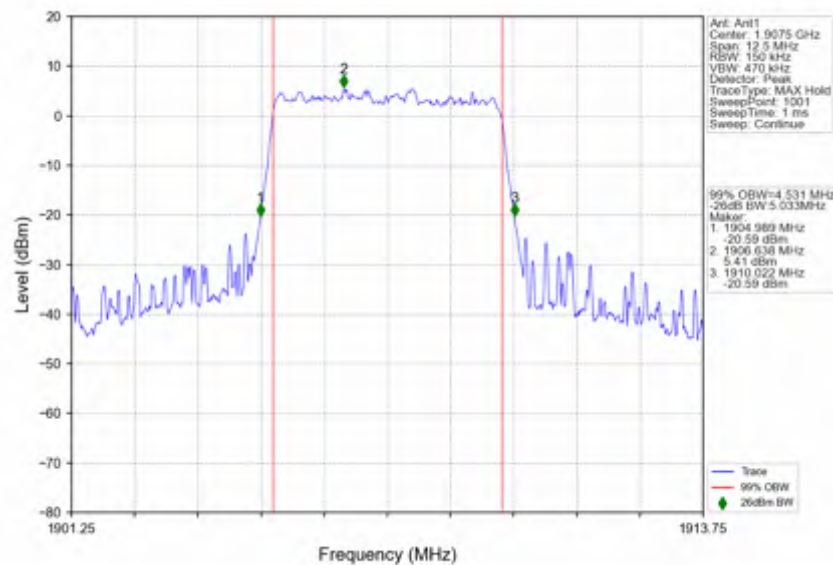
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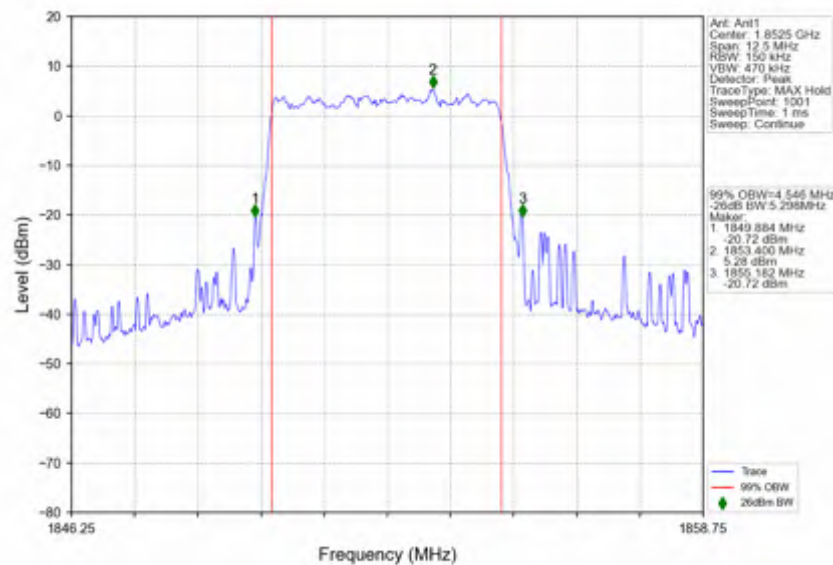
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n2_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM 16 QAM_1907.5MHz_Outer_Full



n2_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM 64 QAM_1852.5MHz_Outer_Full



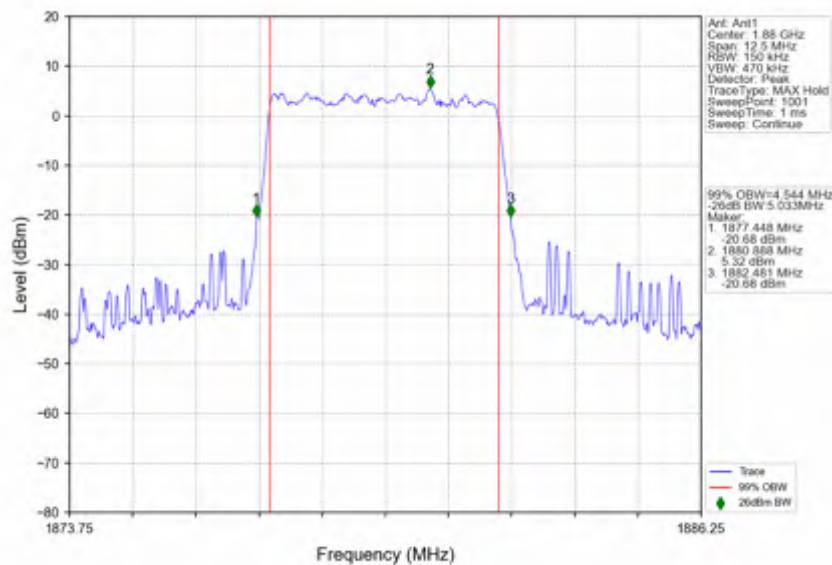
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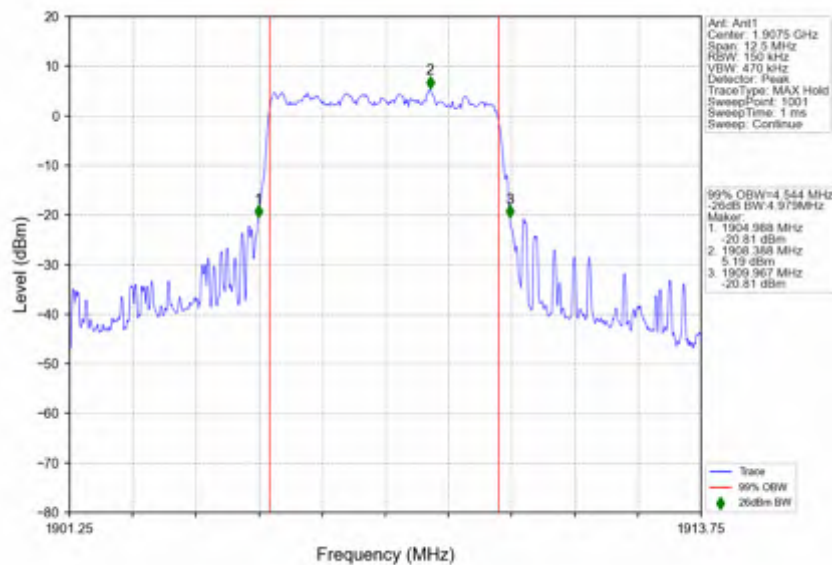
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n2_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_64_QAM_1880MHz_Outer_Full



n2_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_64_QAM_1907.5MHz_Outer_Full



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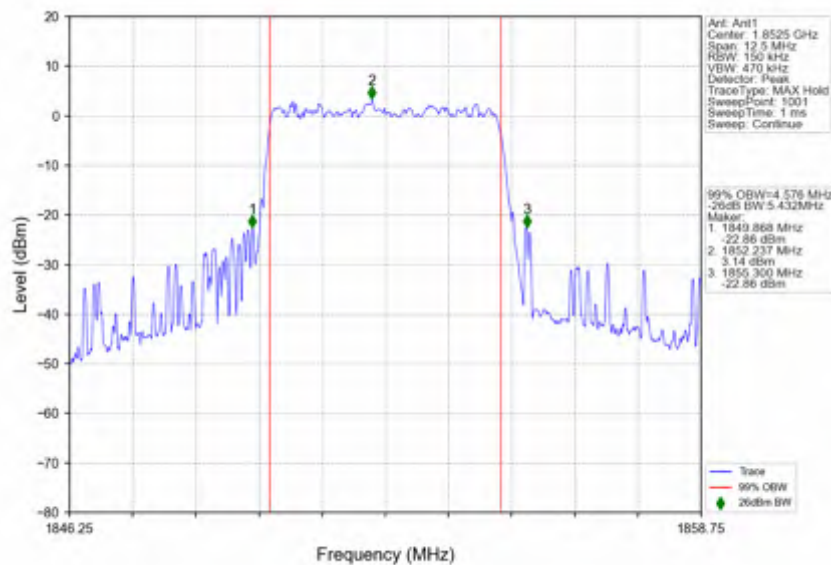
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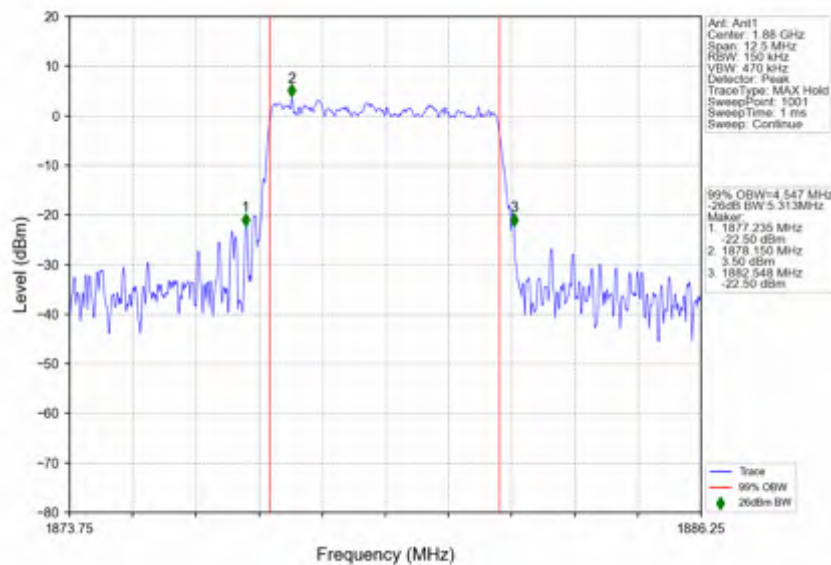
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n2_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_256_QAM_1880MHz_Outer_Full



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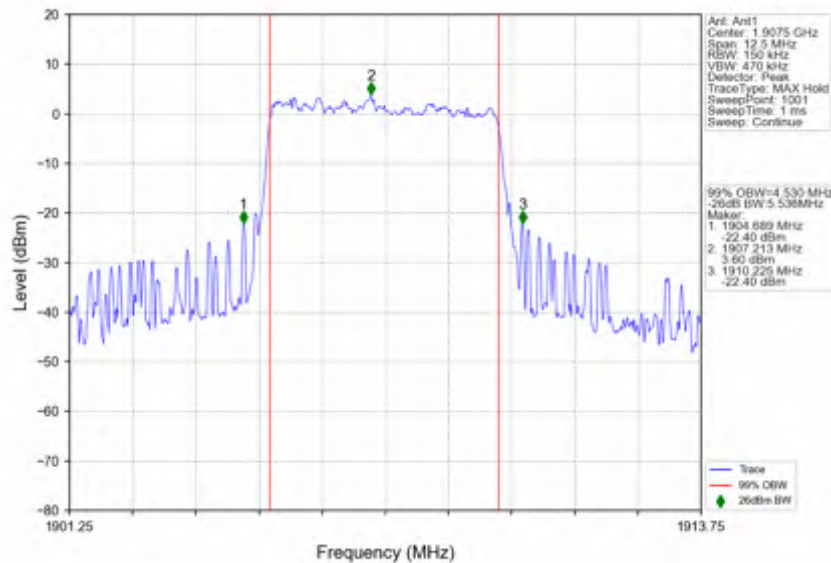
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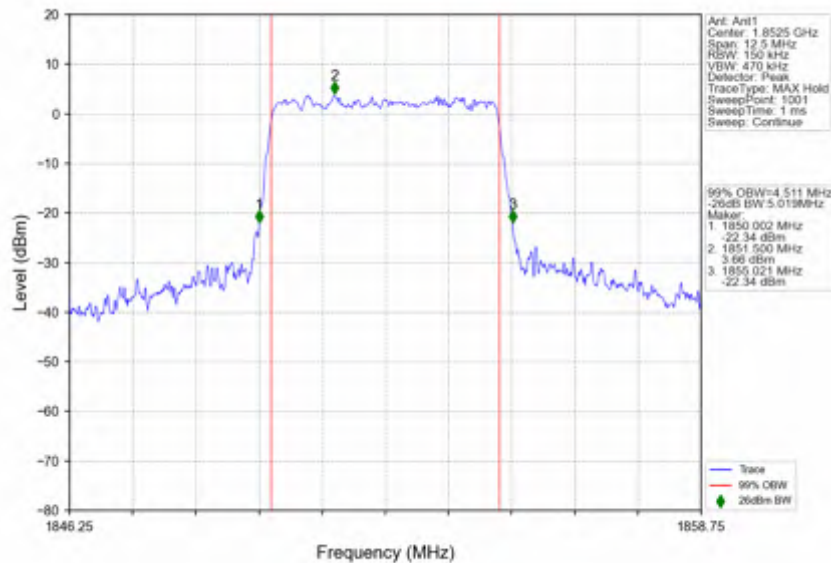
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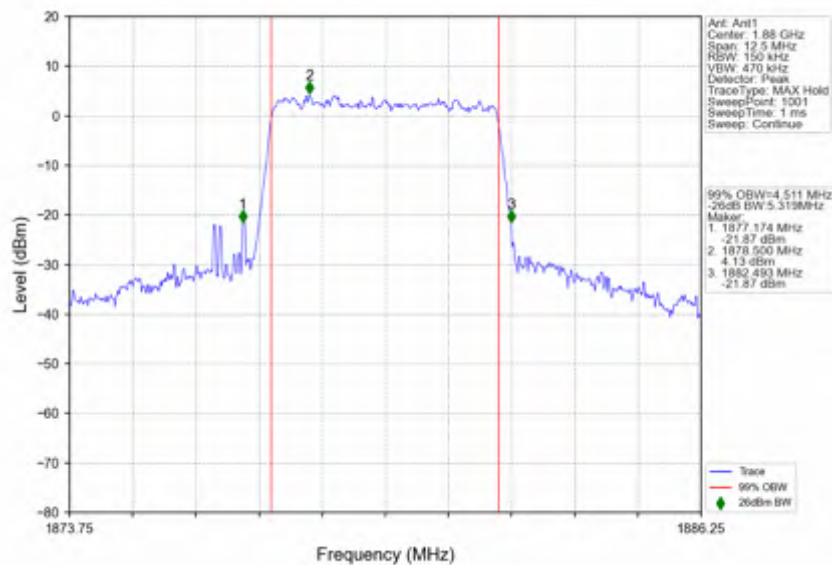
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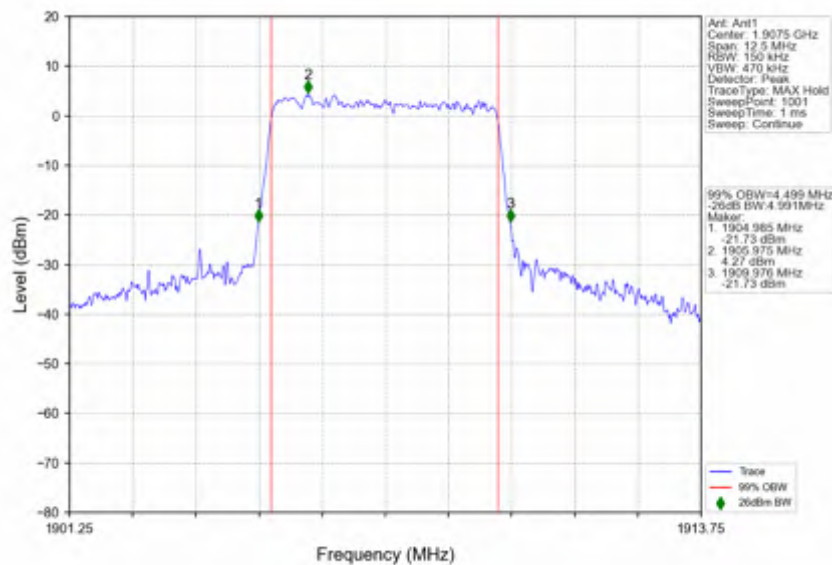
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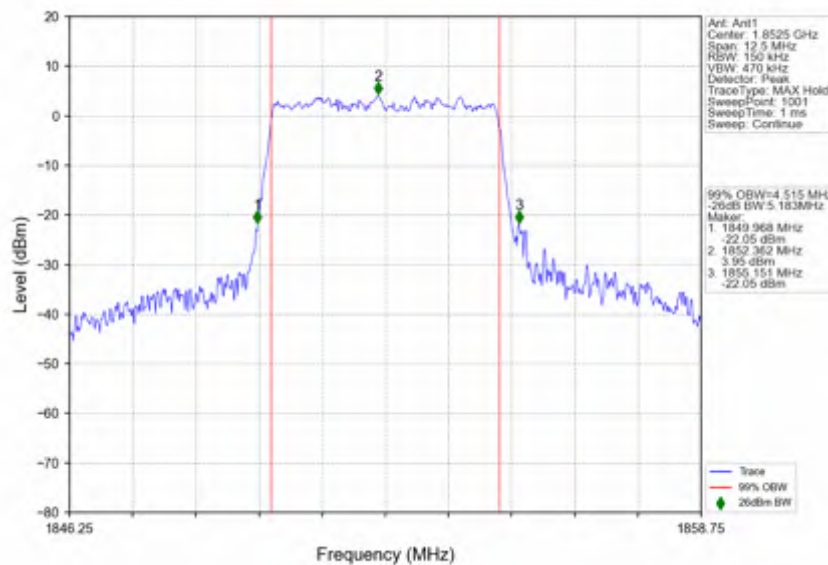
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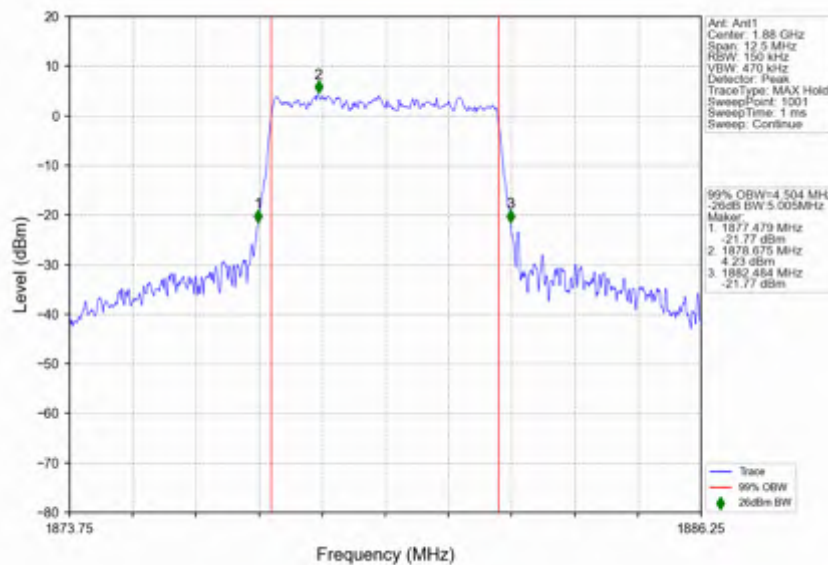
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n2_15kHz_SISO_NTNV_5MHz_CP-OFDM_16 QAM_1880MHz_Outer_Full



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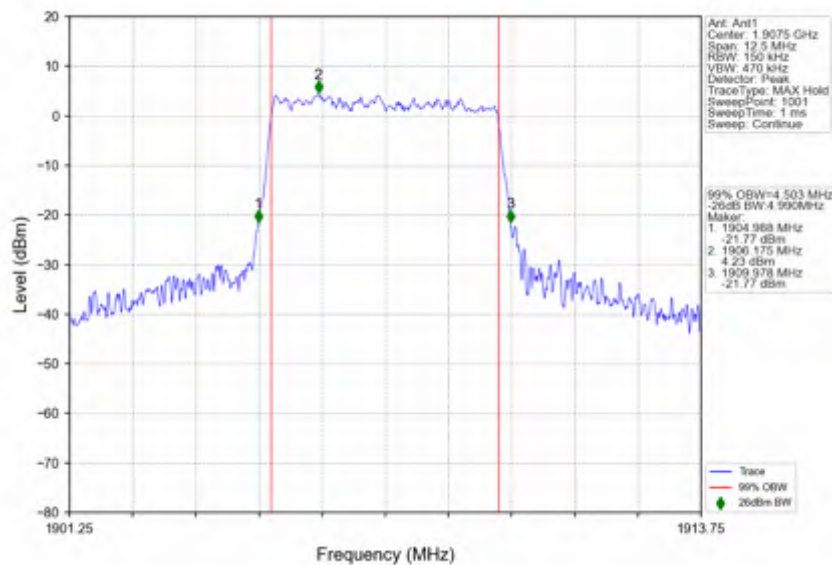
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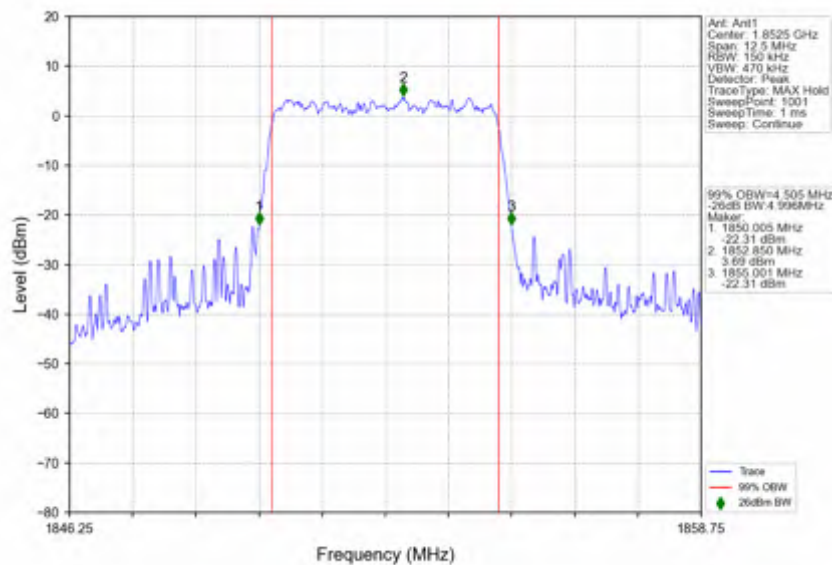
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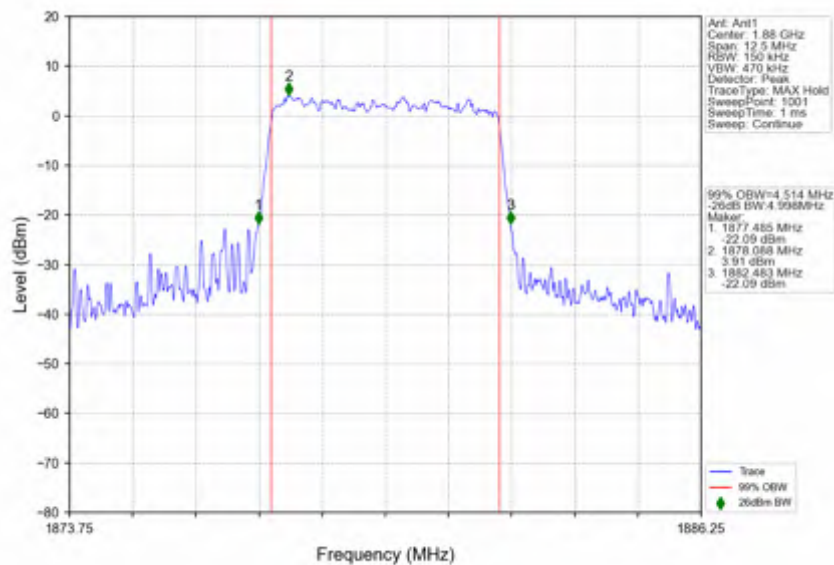
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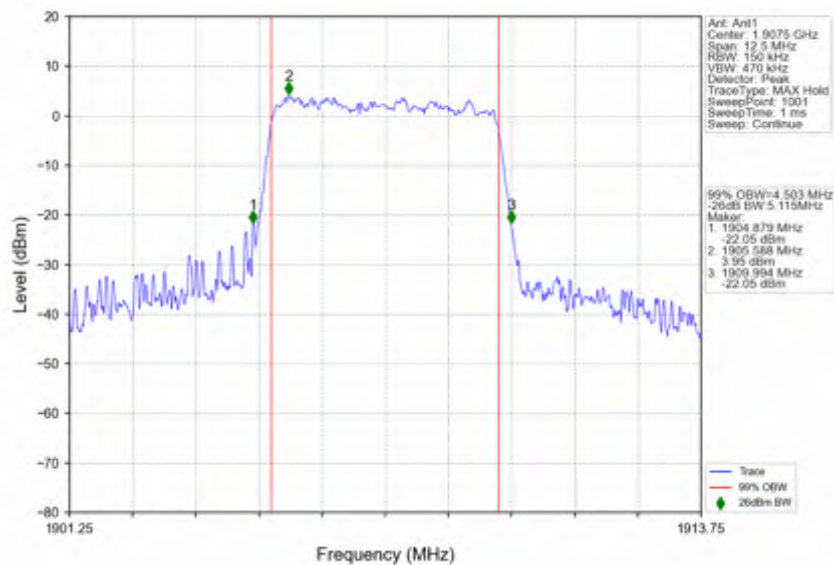
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n2_15kHz_SISO_NTNV_5MHz_CP-OFDM 64 QAM_1880MHz_Outer_Full



n2_15kHz_SISO_NTNV_5MHz_CP-OFDM 64 QAM_1907.5MHz_Outer_Full



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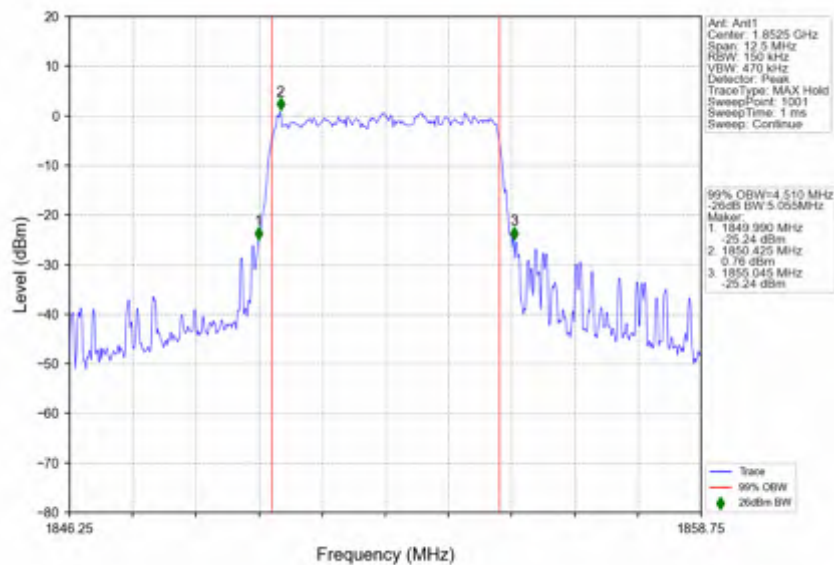
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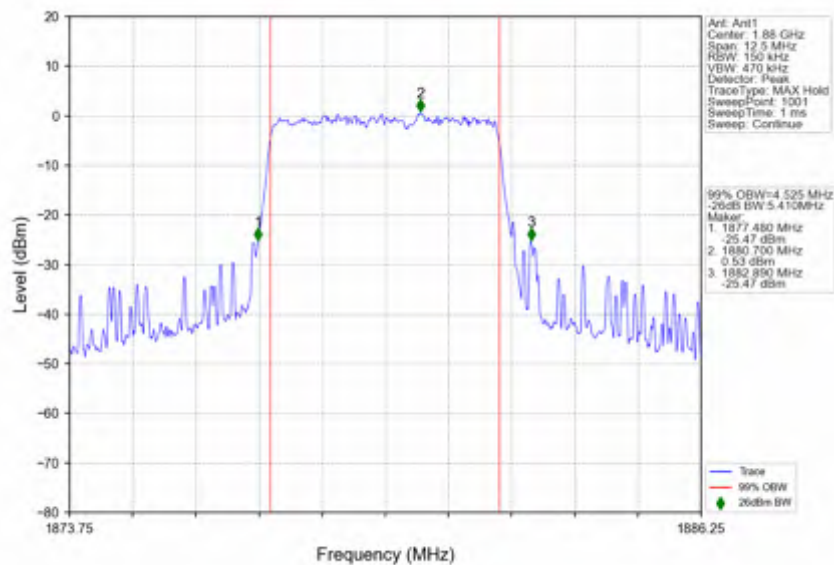
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n2_15kHz_SISO_NTNV_5MHz_CP-OFDM 256 QAM_1852.5MHz_Outer_Full



n2_15kHz_SISO_NTNV_5MHz_CP-OFDM 256 QAM_1880MHz_Outer_Full



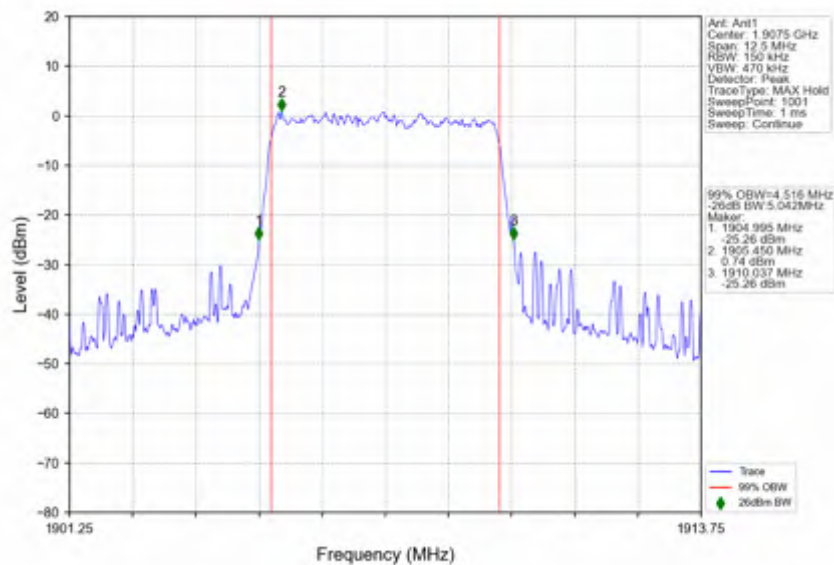
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n2_15kHz_SISO_NTNV_5MHz_CP-OFDM_256_QAM_1907.5MHz_Outer_Full



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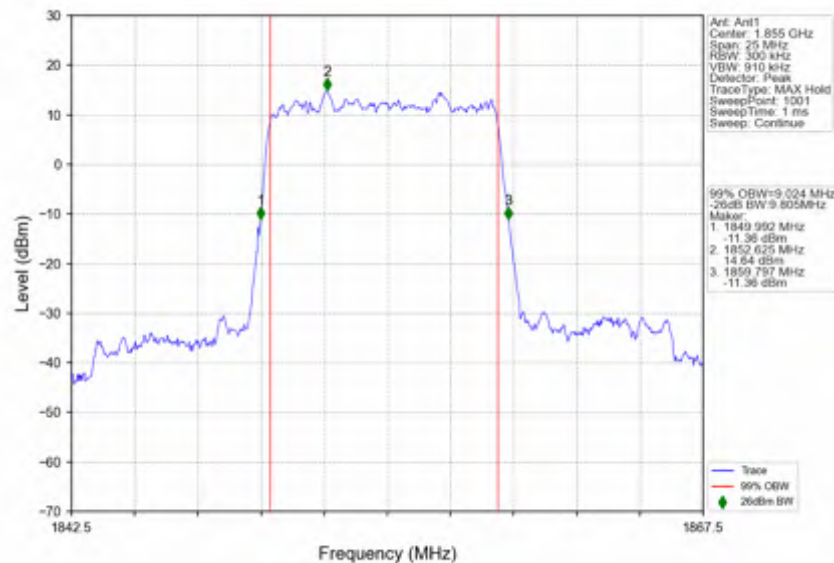
1.2 15k_SISO_10MHz_NTNV

1.2.1 Test Result

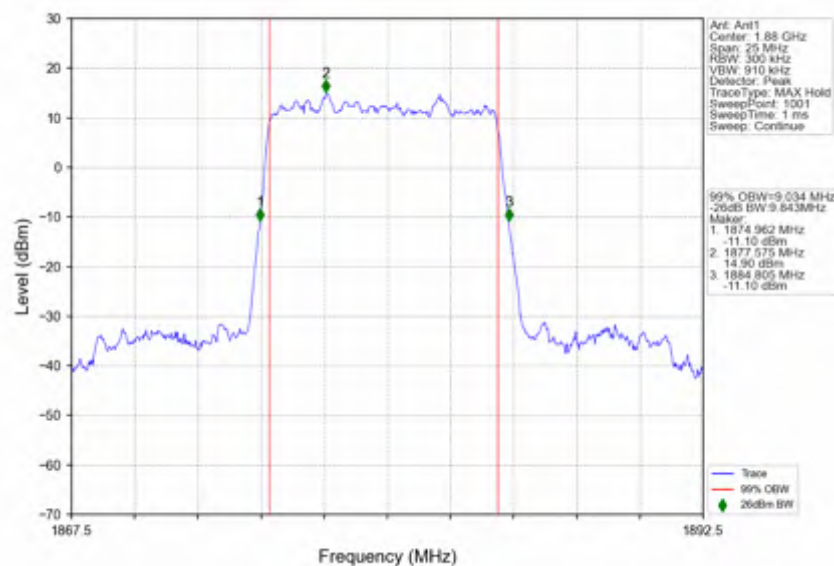
5G NR n2 SCS=15kHz SISO 10MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	1855	Outer_Full	9.02	9.80	/	Pass
	1880	Outer_Full	9.03	9.84	/	Pass
	1905	Outer_Full	9.02	9.88	/	Pass
DFT-s-OFDM QPSK	1855	Outer_Full	9.02	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



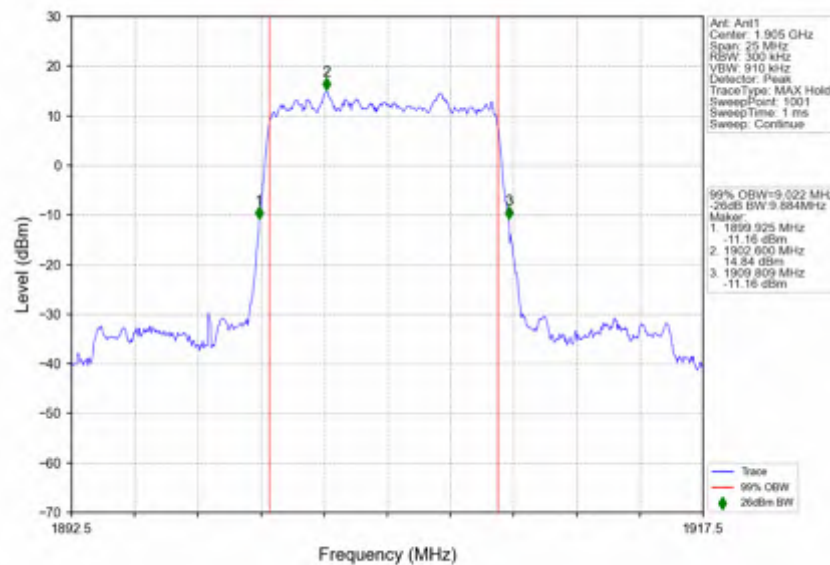
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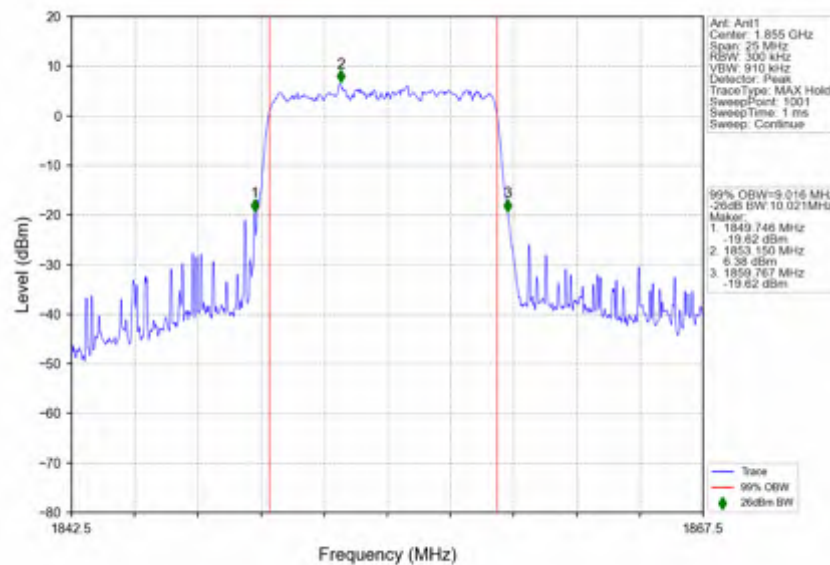
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n2_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_1905MHz_Outer_Full



n2_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_1855MHz_Outer_Full



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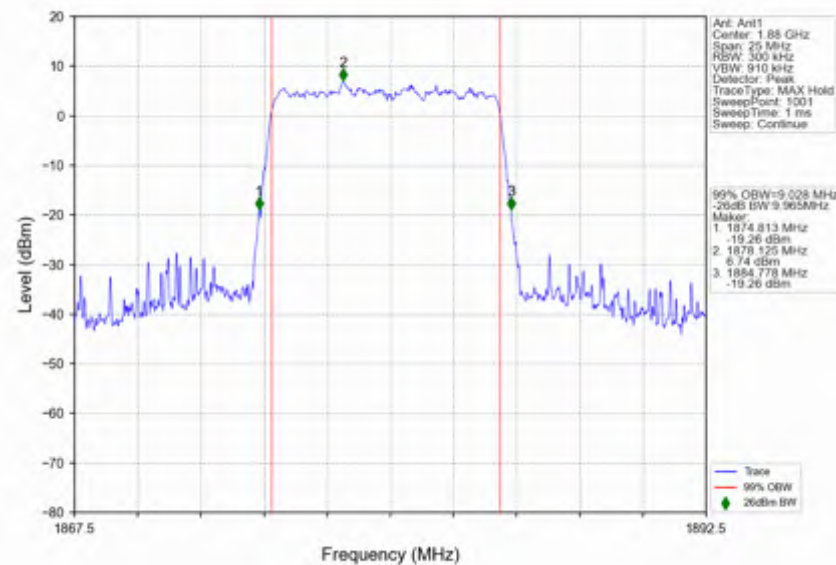
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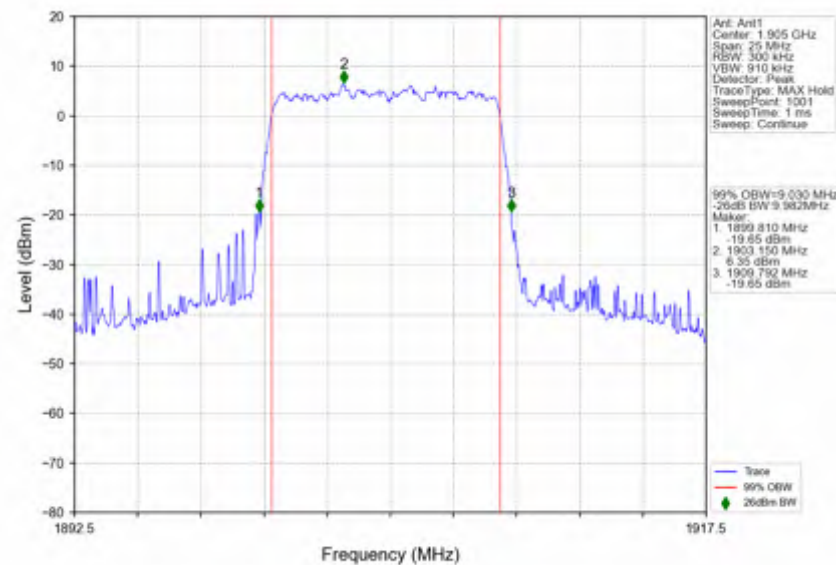
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n2_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_QPSK_1905MHz_Outer_Full



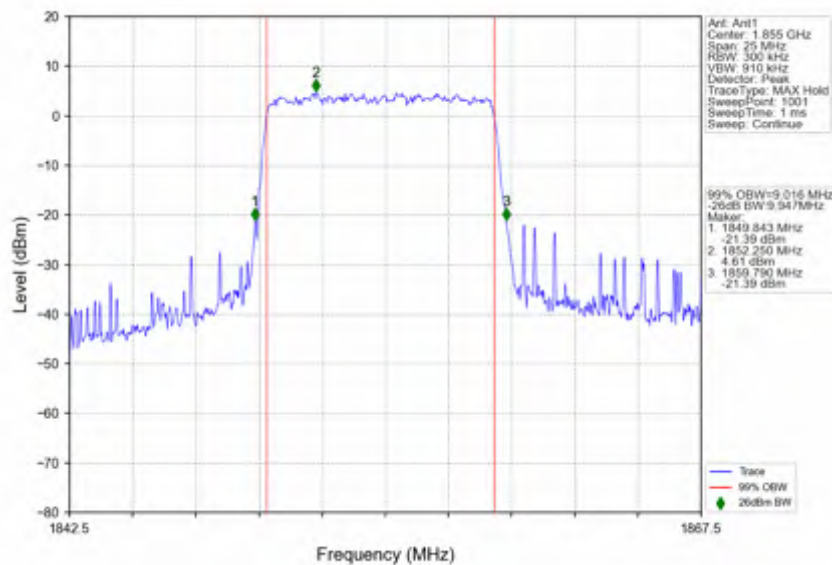
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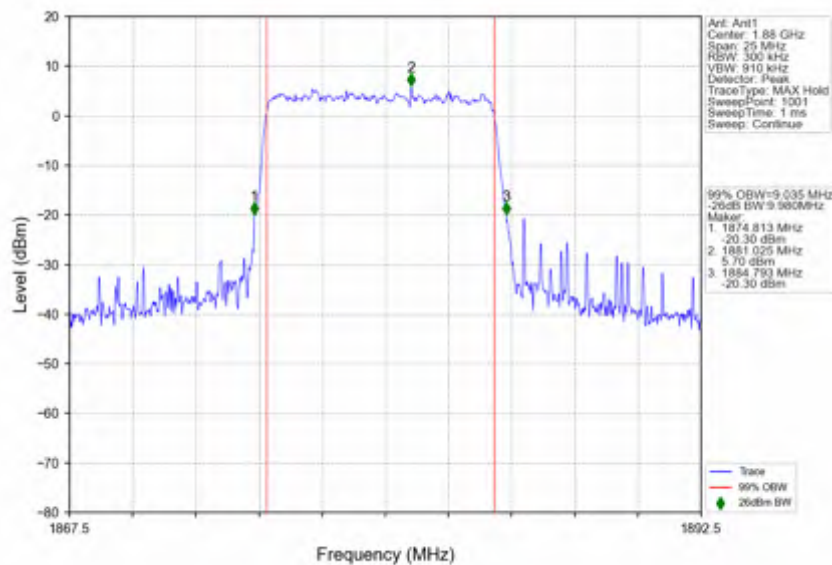
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n2_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_16_QAM_1880MHz_Outer_Full



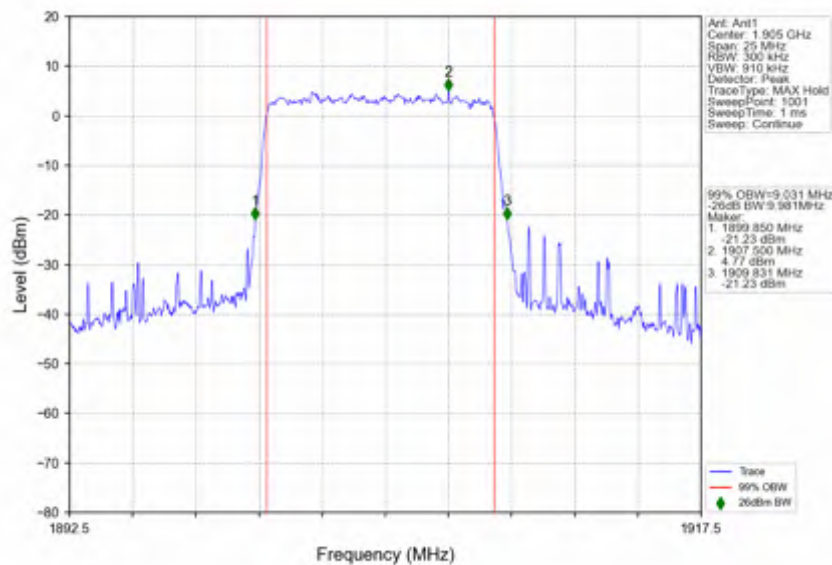
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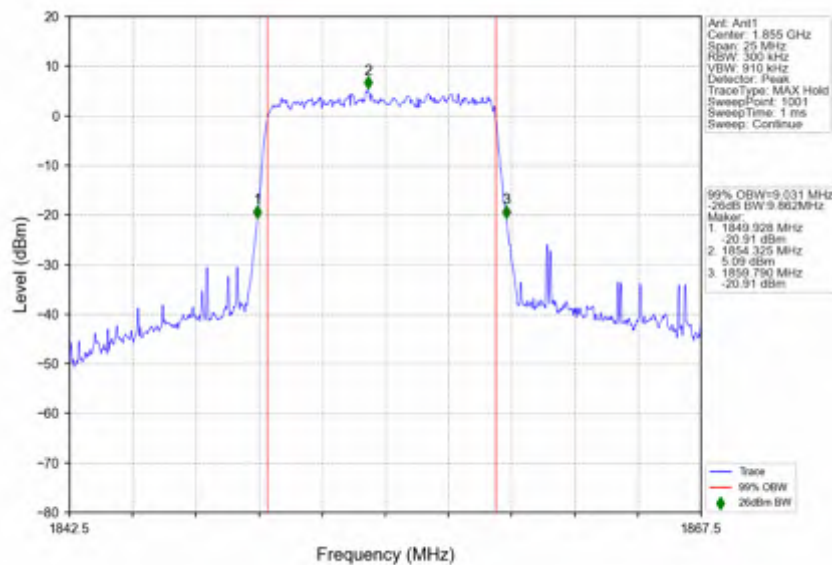
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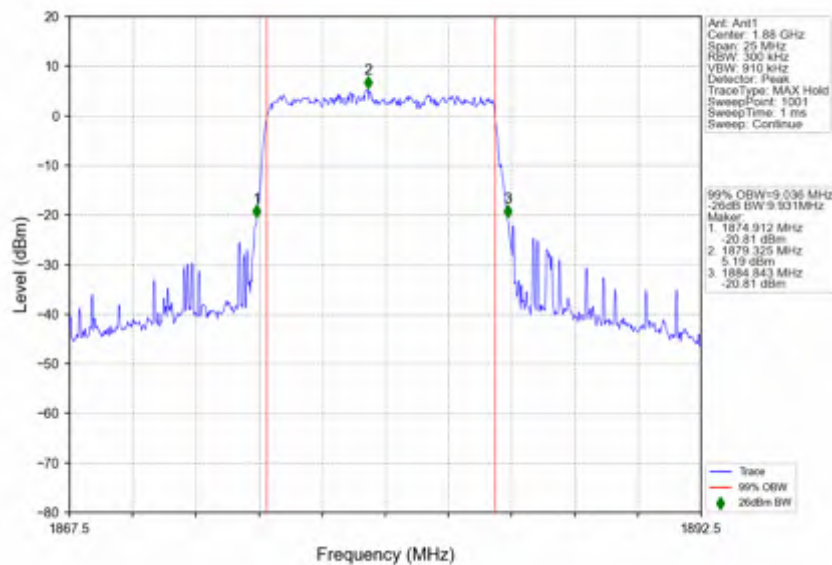
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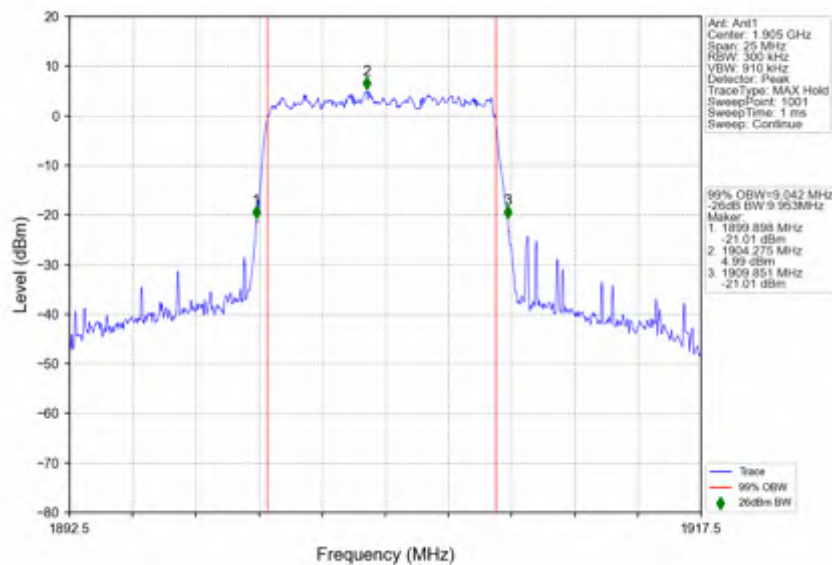
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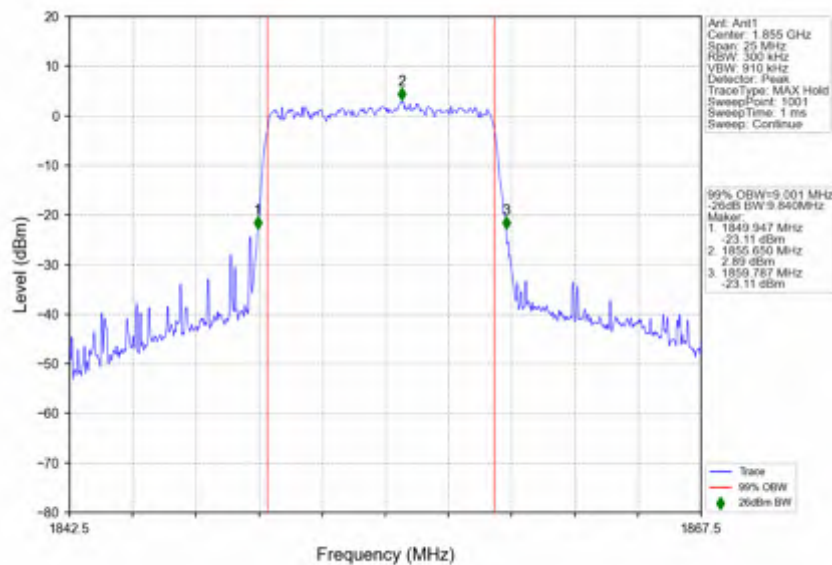
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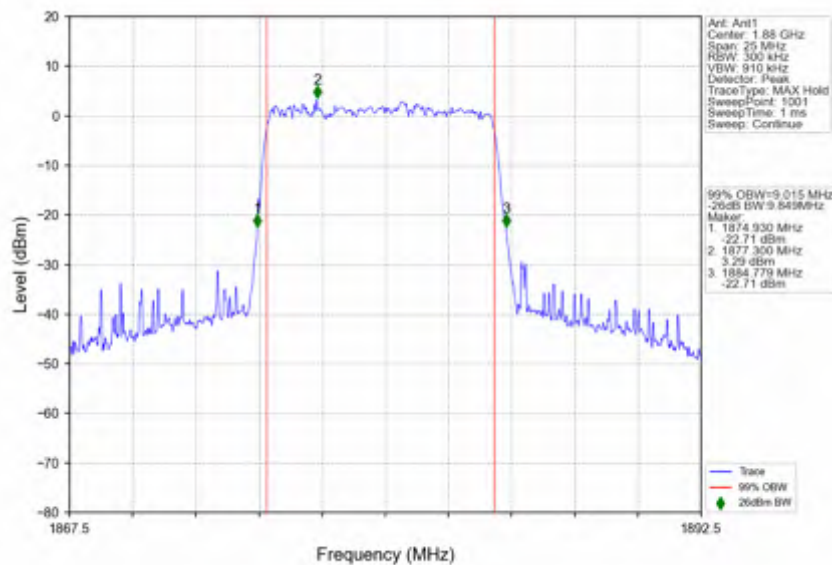
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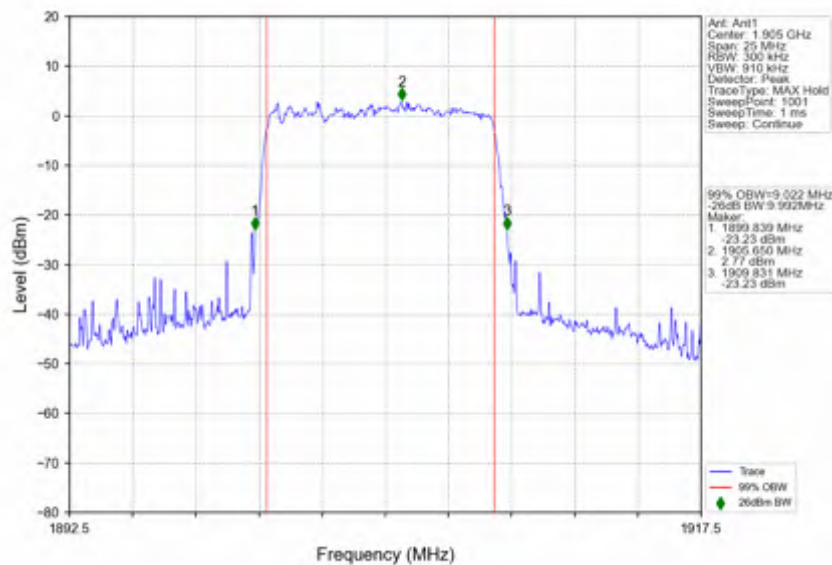
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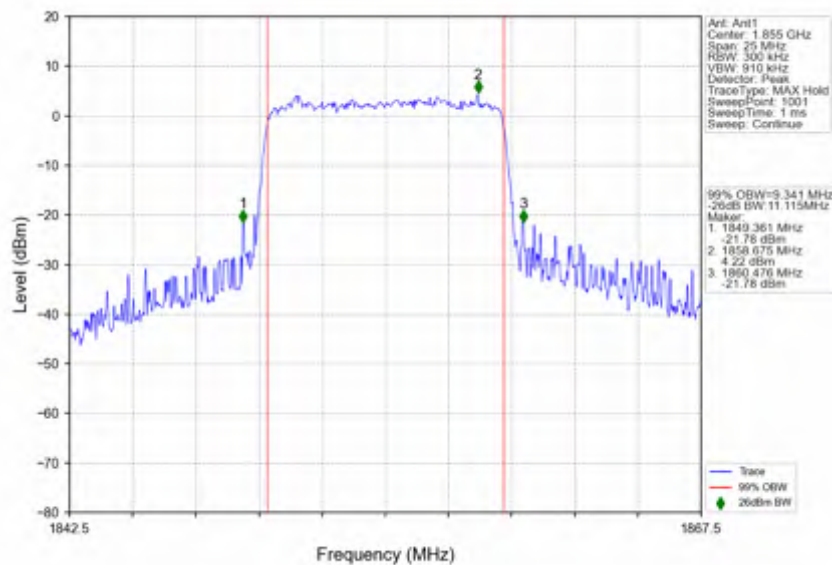
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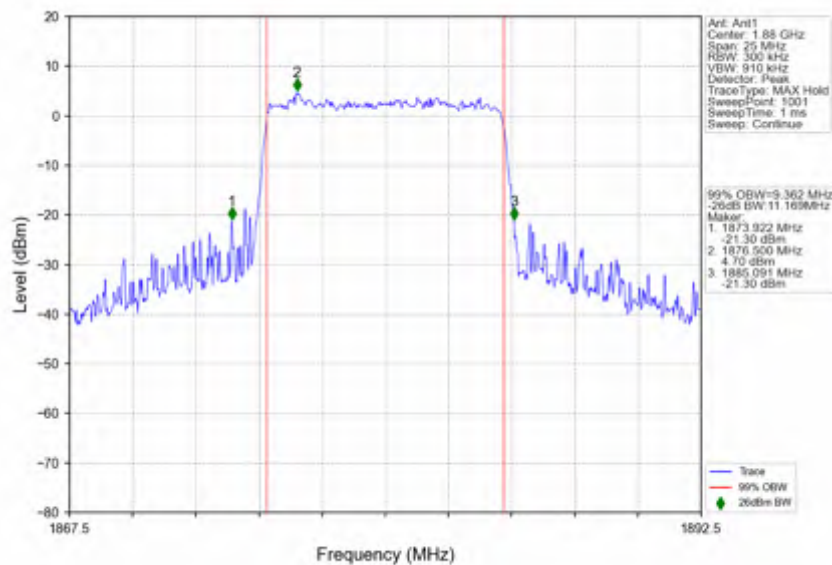
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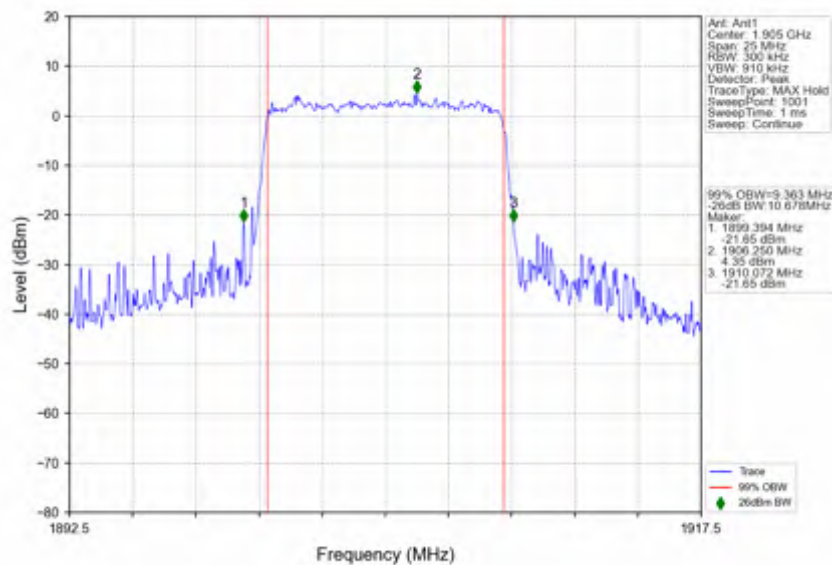
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n2_15kHz_SISO_NTV_10MHz_CP-OFDM_QPSK_1880MHz_Outer_Full



n2	15kHz	SISO	NTNV	10MHz	CP-OFDM	QPSK	1905MHz	Outer	Full
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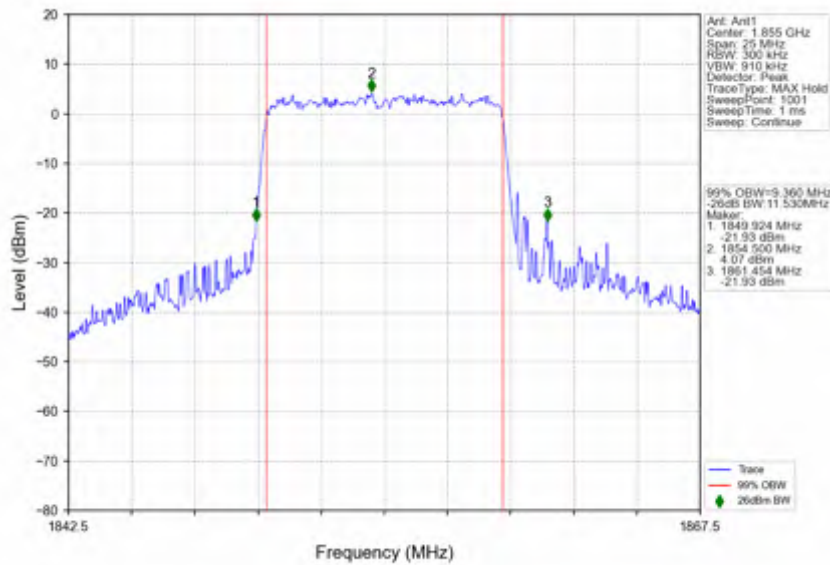


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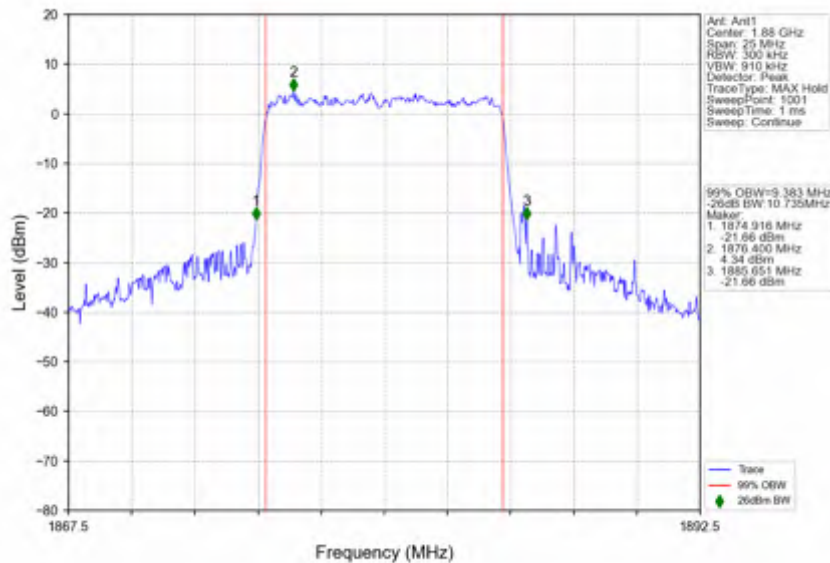
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n2_15kHz_SISO_NTNV_10MHz_CP-OFDM 16 QAM 1855MHz_Outer_Full



n2_15kHz_SISO_NTNV_10MHz_CP-OFDM 16 QAM 1880MHz_Outer_Full



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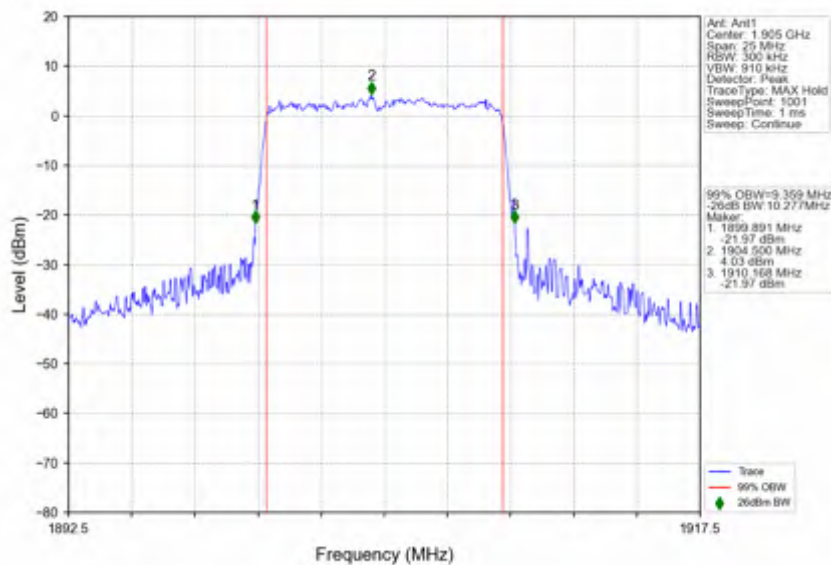
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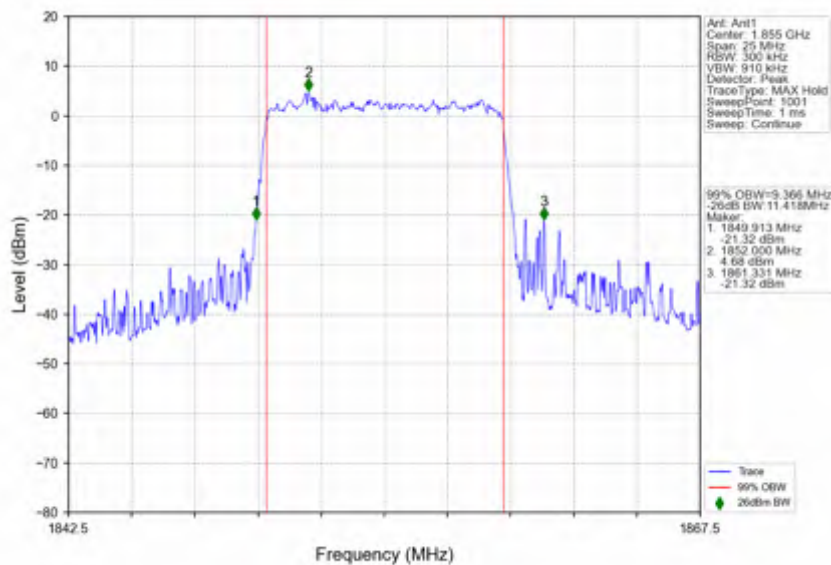
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n2_15kHz_SISO_NTNV_10MHz_CP-OFDM_16_QAM_1905MHz_Outer_Full



n2 15kHz SISO NTN 10MHz CP-OFDM 64 QAM 1855MHz Outer Full

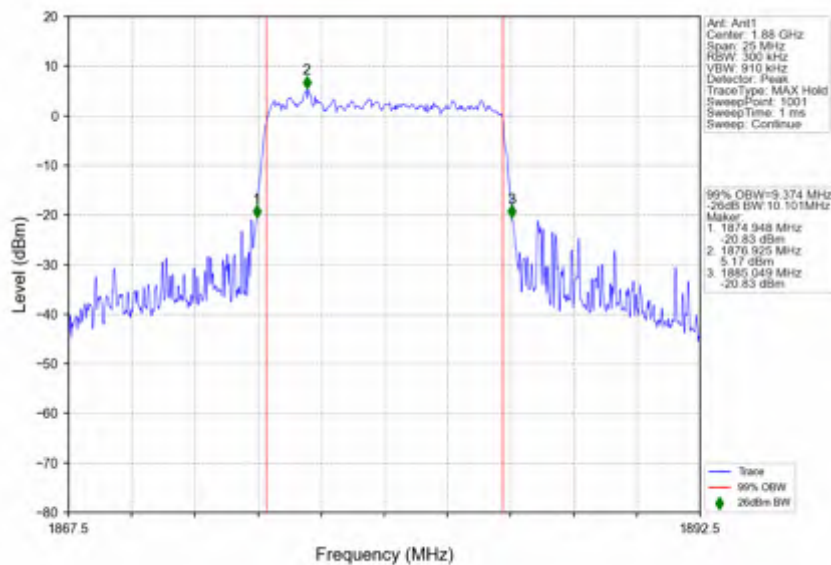


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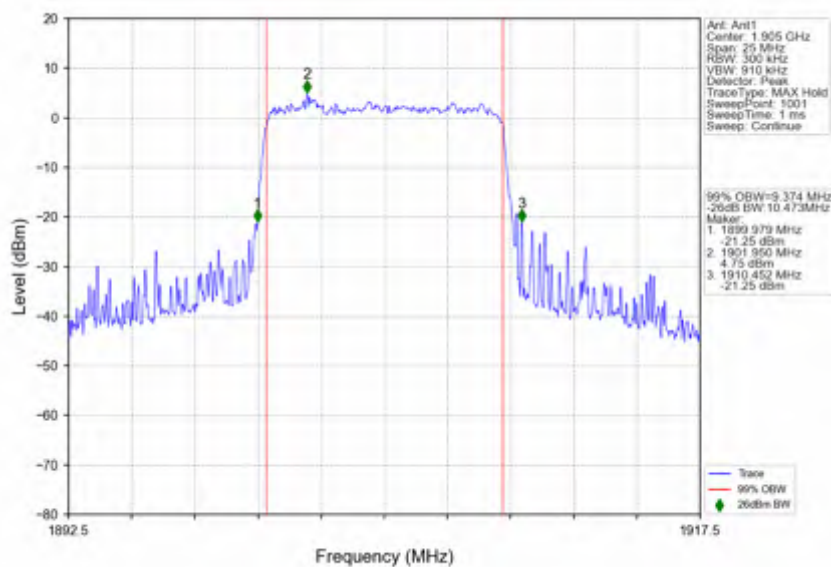
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n2_15kHz_SISO_NTNV_10MHz_CP-OFDM_64_QAM_1880MHz_Outer_Full



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

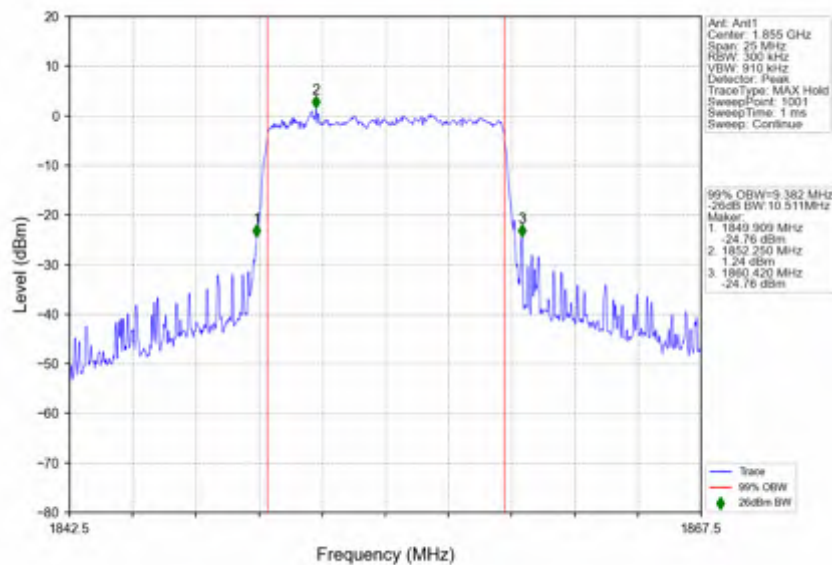


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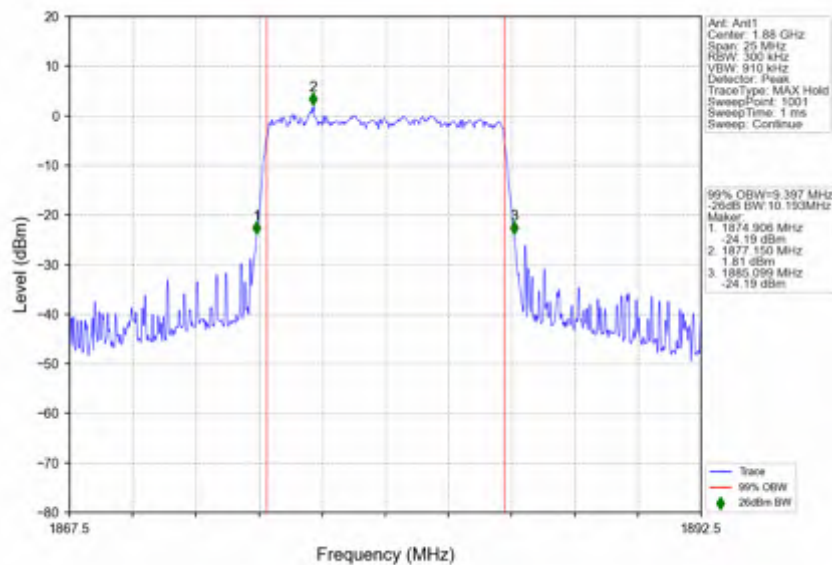
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n2_15kHz_SISO_NTNV_10MHz_CP-OFDM_256_QAM_1855MHz_Outer_Full



n2 15kHz SISO NTV 10MHz CP-OFDM 256 QAM 1880MHz Outer Full

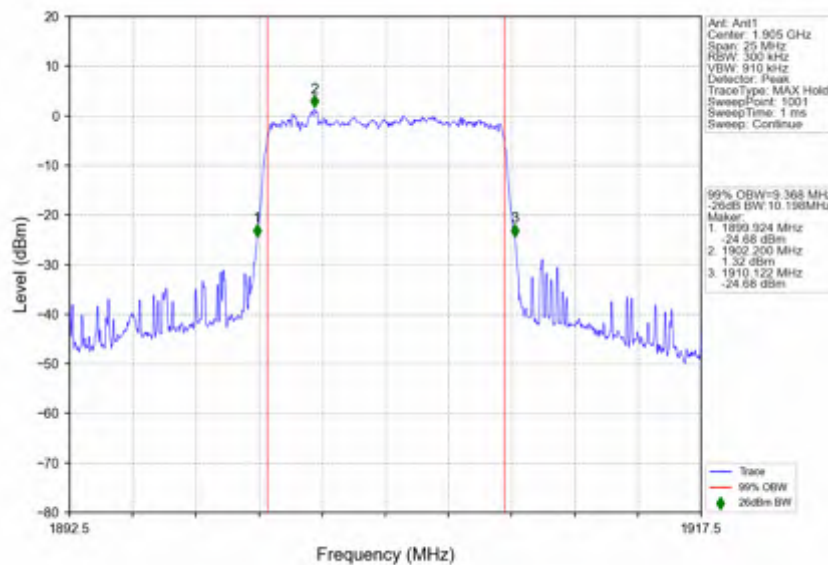


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n2_15kHz_SISO_NTNV_10MHz_CP-OFDM_256_QAM_1905MHz_Outer_Full



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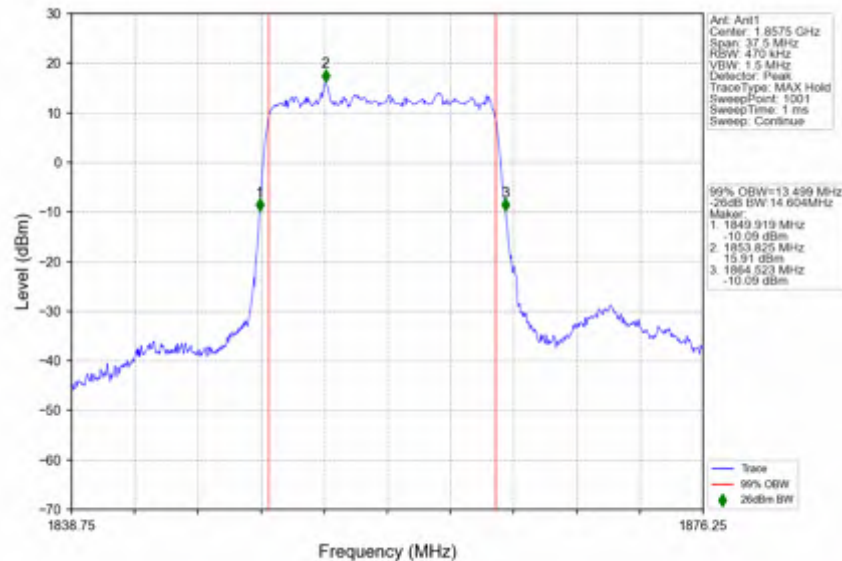
1.3 15k_SISO_15MHz_NTNV

1.3.1 Test Result

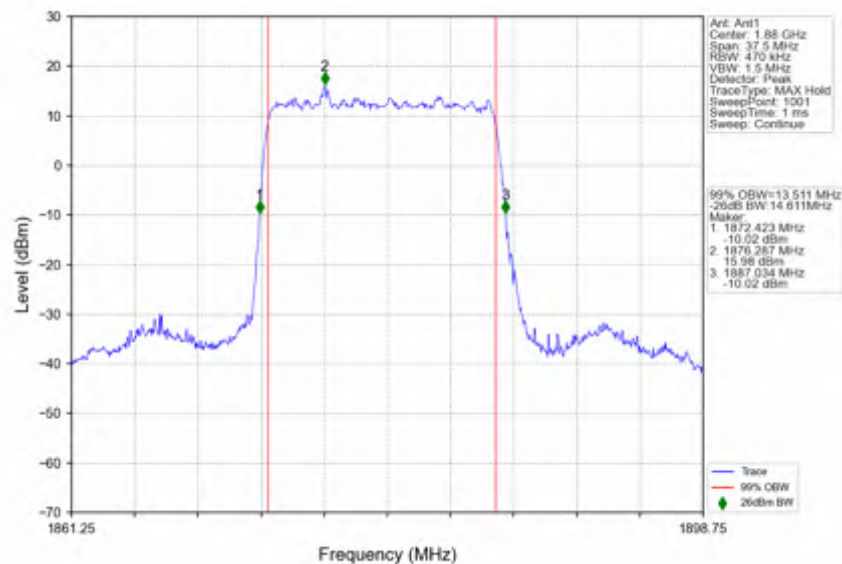
5G NR n2 SCS=15kHz SISO 15MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	1857.5	Outer_Full	13.50	14.60	/	Pass
	1880	Outer_Full	13.51	14.61	/	Pass
	1902.5	Outer_Full	13.52	14.67	/	Pass
DFT-s-OFDM QPSK	1857.5	Outer_Full	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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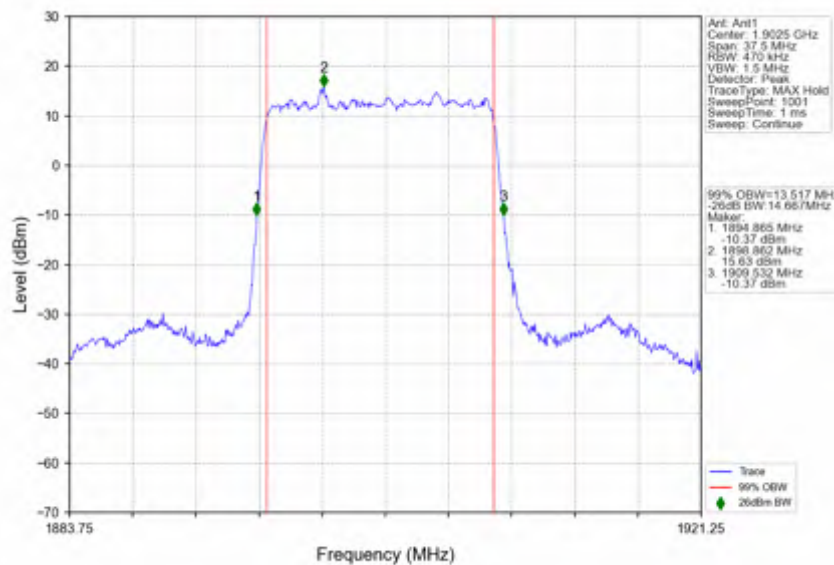
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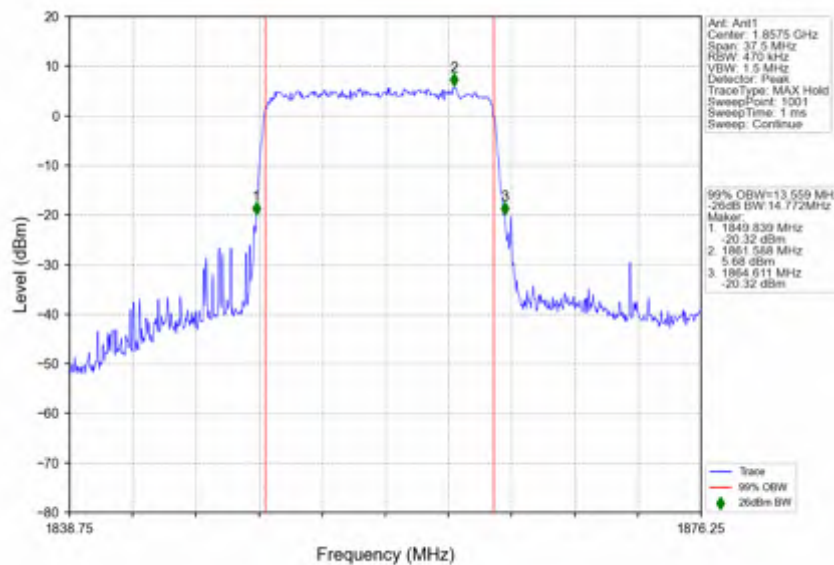
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n2_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_1857.5MHz_Outer_Full



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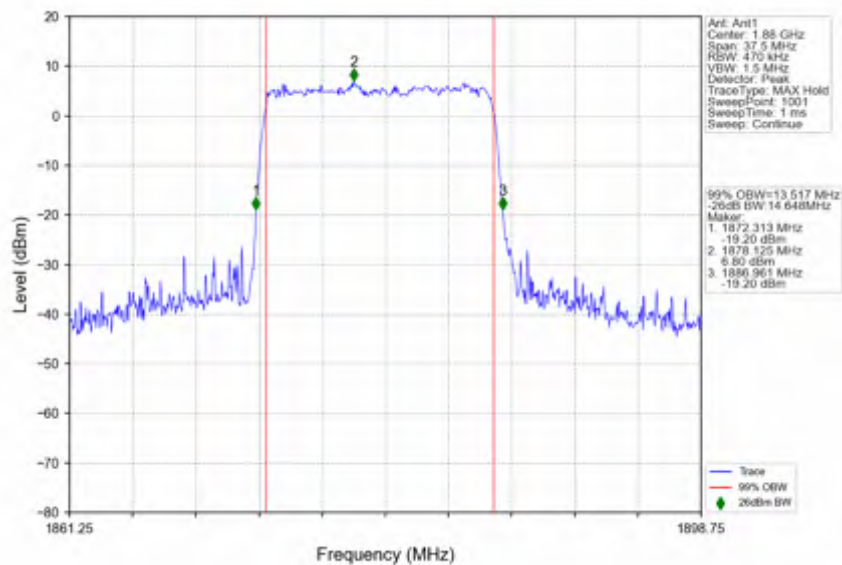
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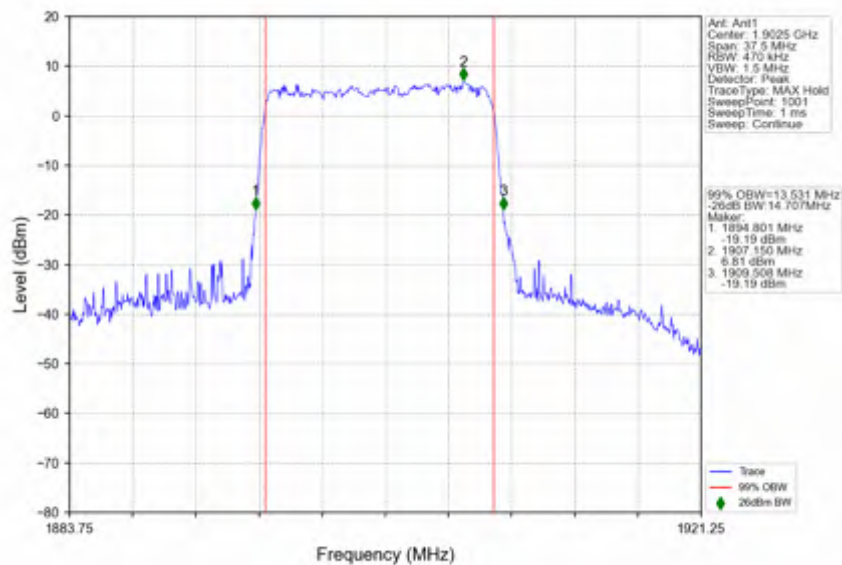
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n2_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_1880MHz_Outer_Full



n2_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_1902.5MHz_Outer_Full



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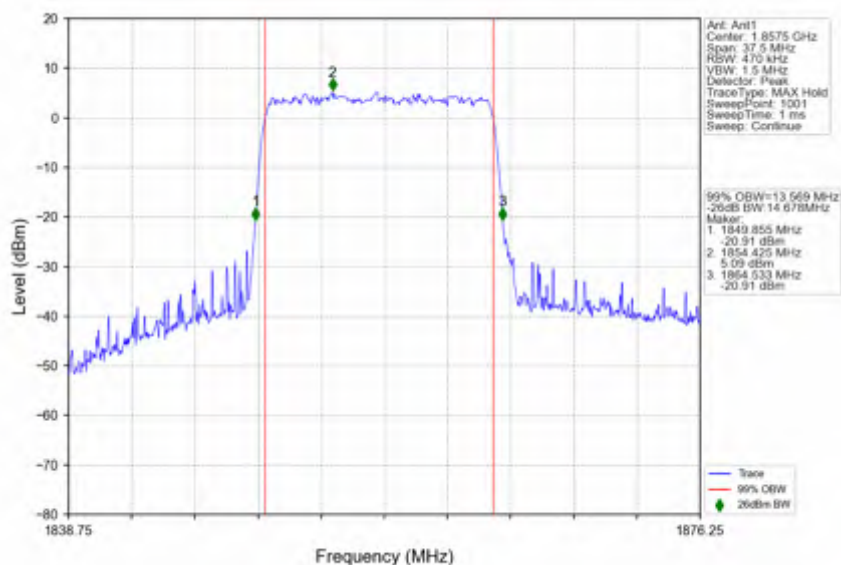
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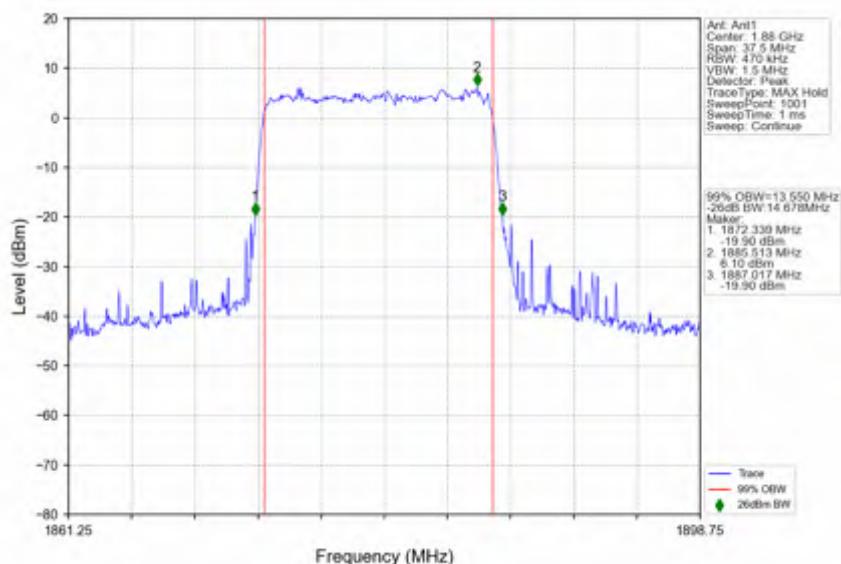
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n2 15kHz SISO NTV 15MHz DFT-s-OFDM 16 QAM 1857.5MHz Outer Full



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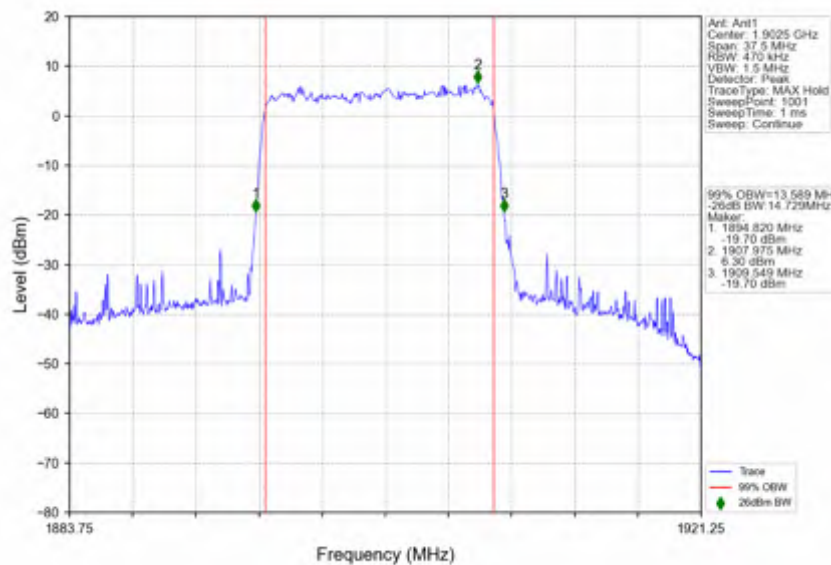


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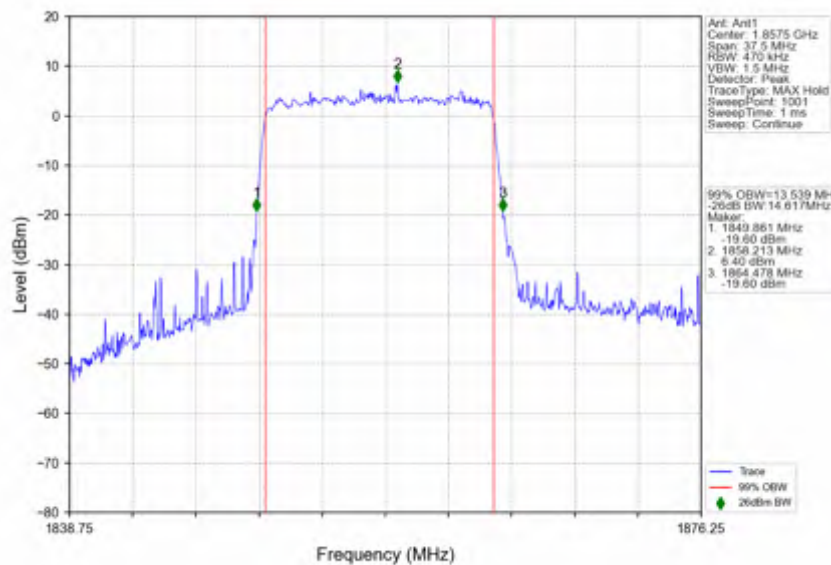
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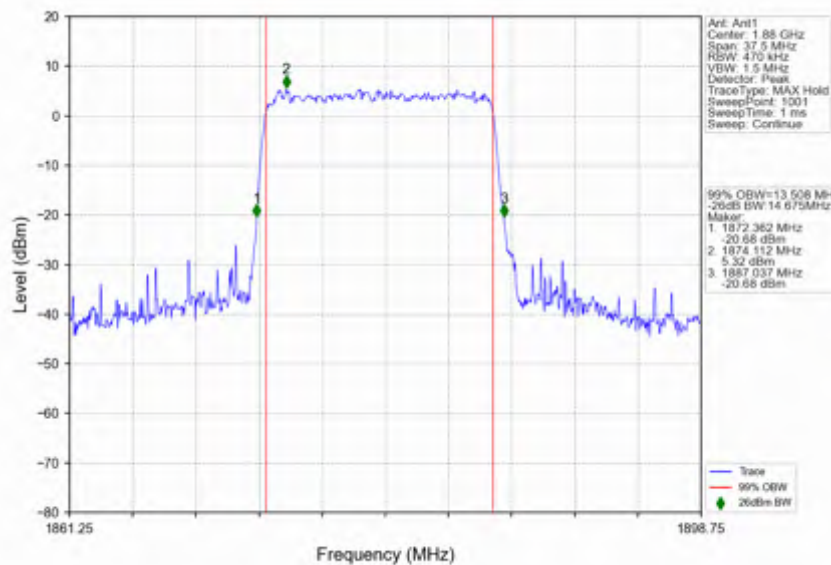
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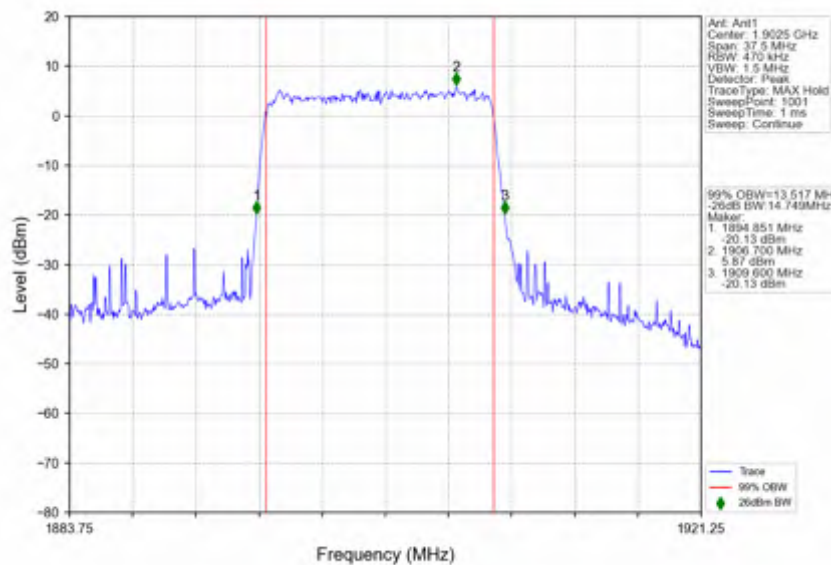
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n2_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 64 QAM_1880MHz_Outer_Full



n2_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 64 QAM_1902.5MHz_Outer_Full



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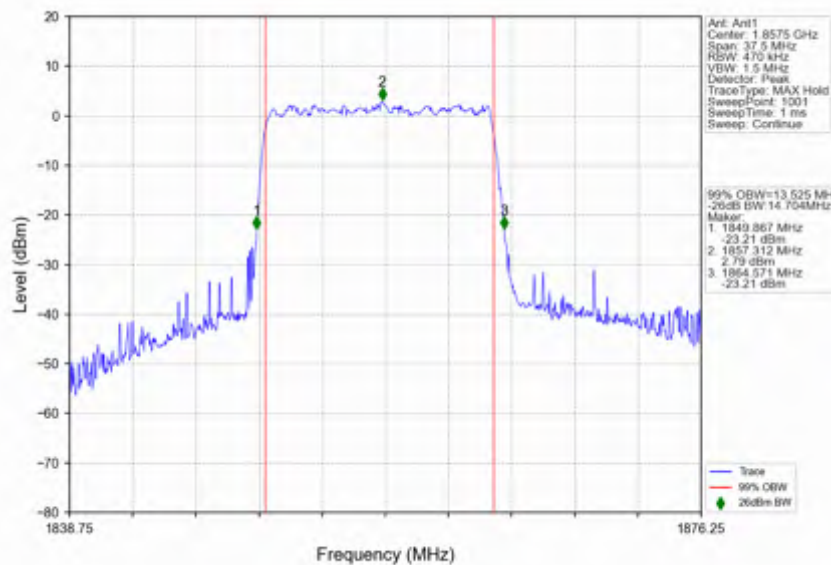
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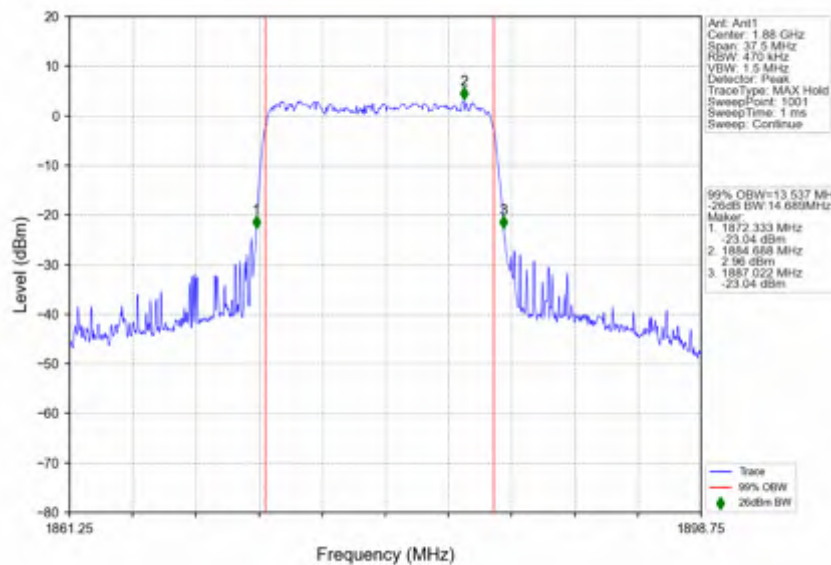
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0512-57350883 0512-57370911 sgs.china@sgs.com

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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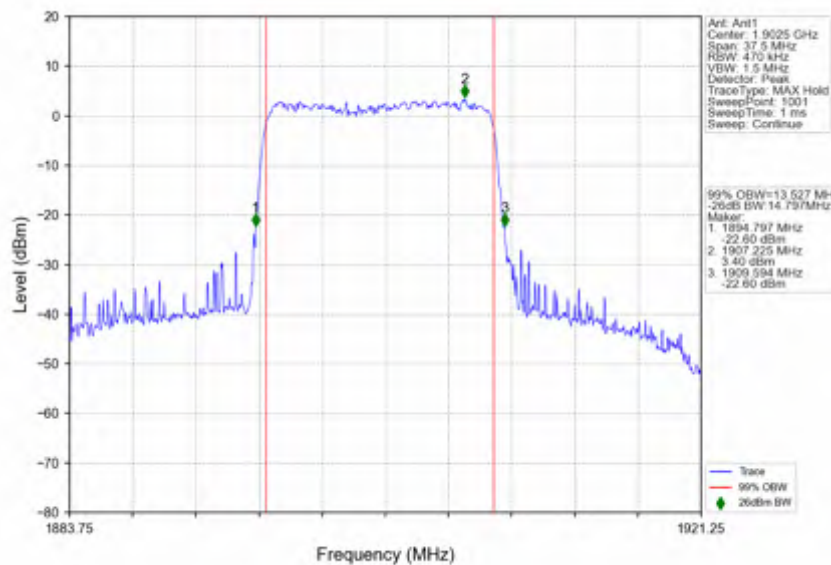
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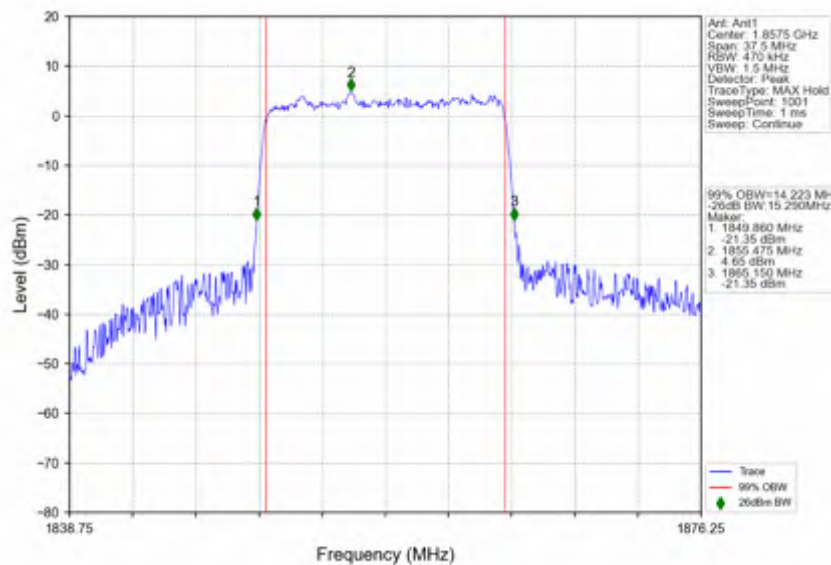
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0512-51257350888 0512-51257370910 sgs.china@sgs.com

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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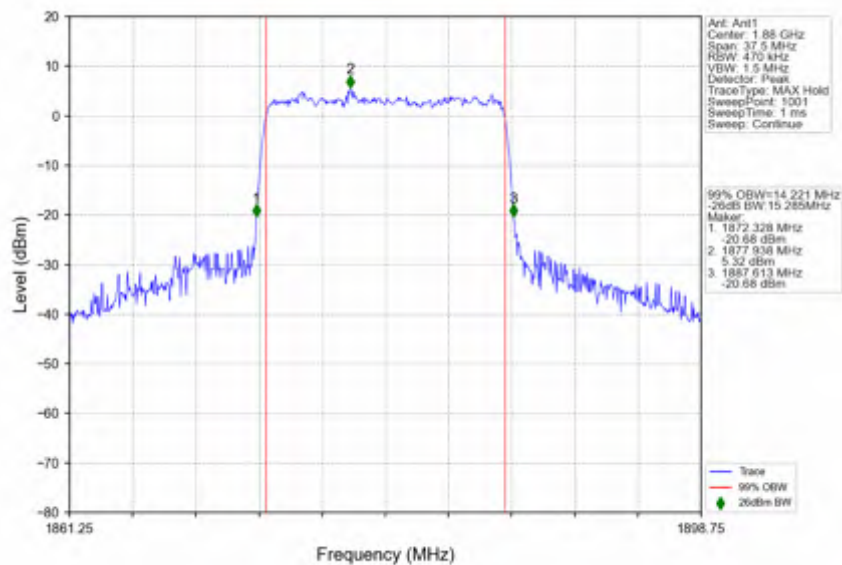
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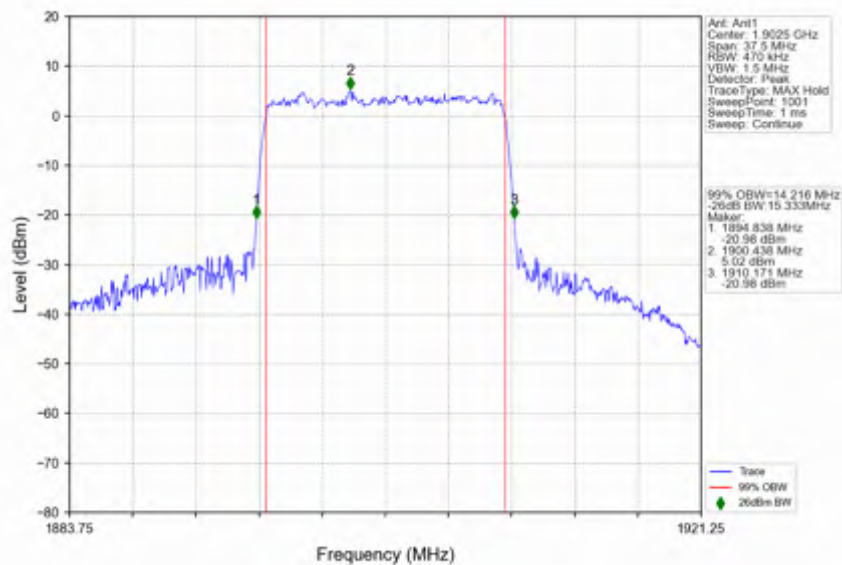
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n2_15kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_1880MHz_Outer_Full



n2_15kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_1902.5MHz_Outer_Full



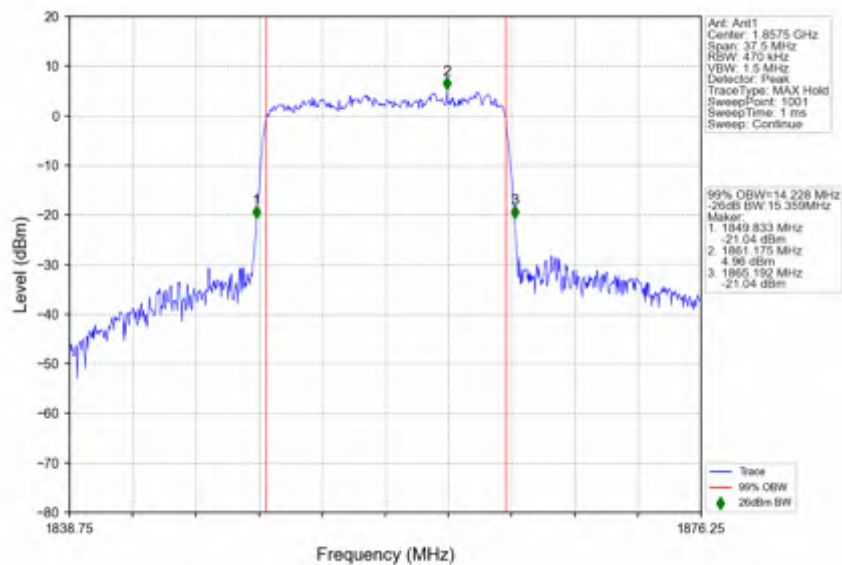
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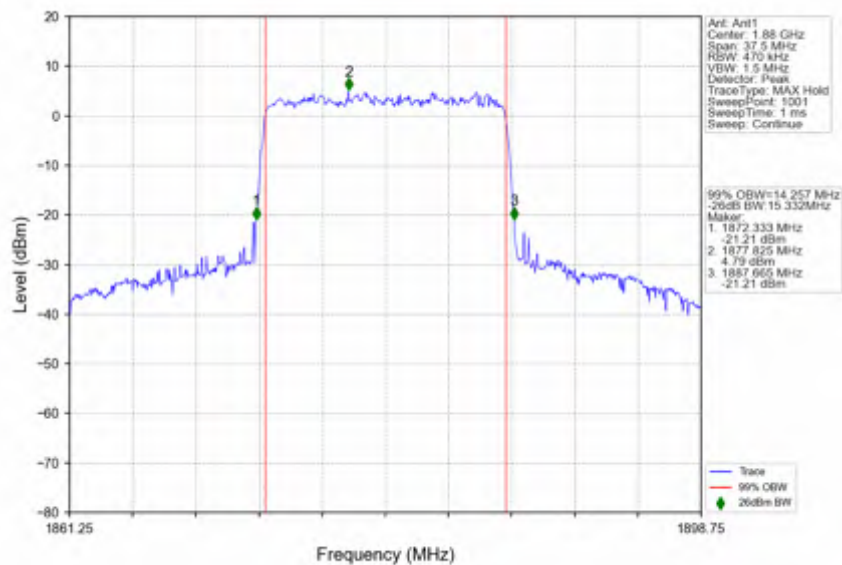
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n2_15kHz_SISO_NTNV_15MHz_CP-OFDM_16_QAM_1857.5MHz_Outer_Full



n2_15kHz_SISO_NTNV_15MHz_CP-OFDM_16_QAM_1880MHz_Outer_Full



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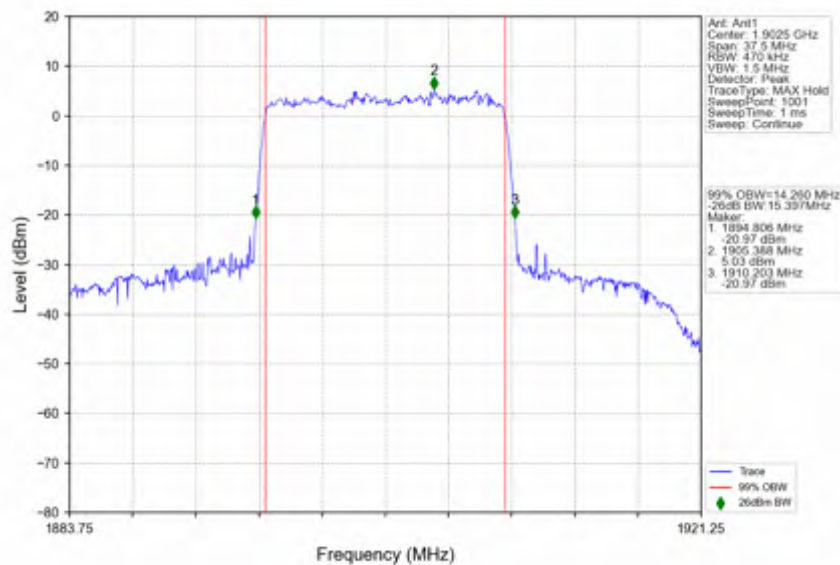
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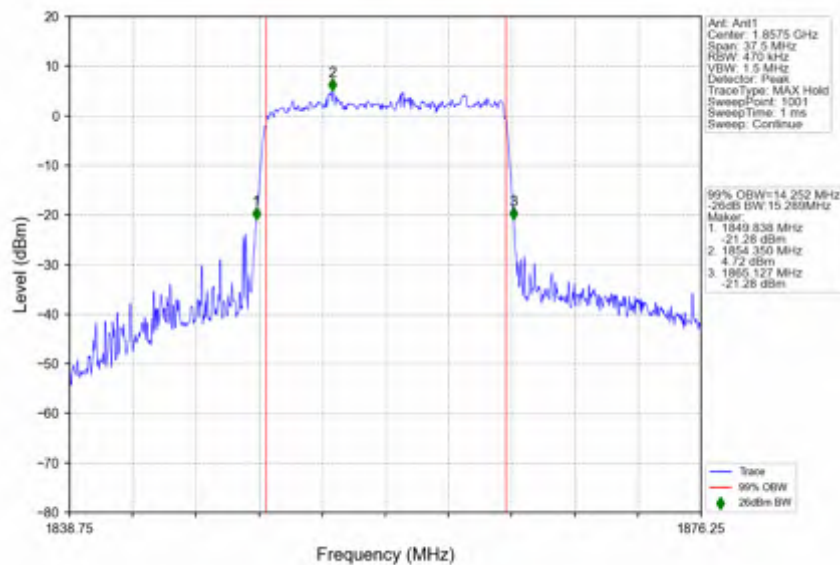
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n2_15kHz_SISO_NTNV_15MHz_CP-OFDM_16_QAM_1902.5MHz_Outer_Full



n2_15kHz_SISO_NTNV_15MHz_CP-OFDM_64_QAM_1857.5MHz_Outer_Full

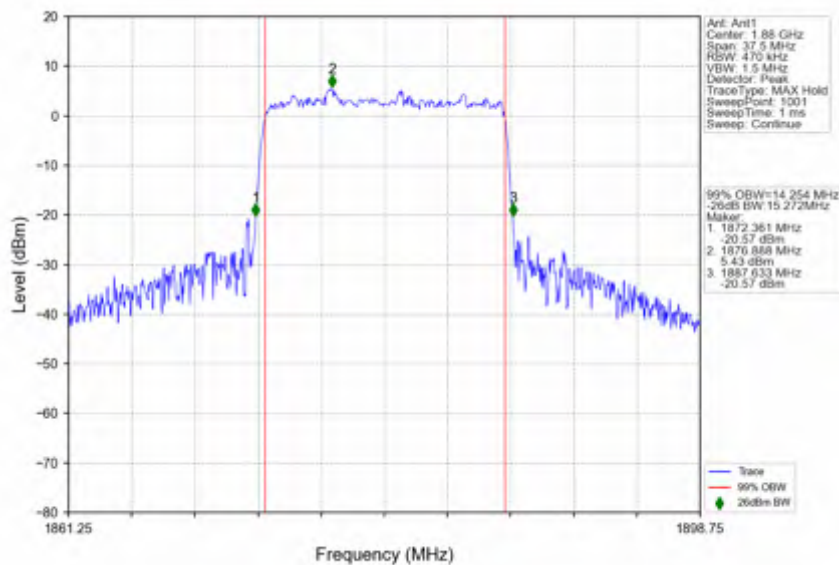


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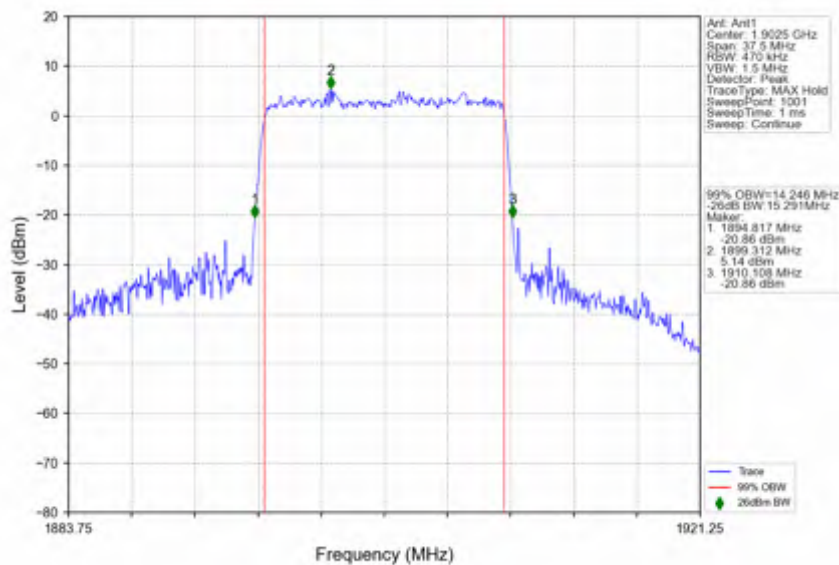
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n2_15kHz_SISO_NTNV_15MHz_CP-OFDM 64 QAM_1880MHz_Outer_Full



n2_15kHz_SISO_NTNV_15MHz_CP-OFDM 64 QAM_1902.5MHz_Outer_Full



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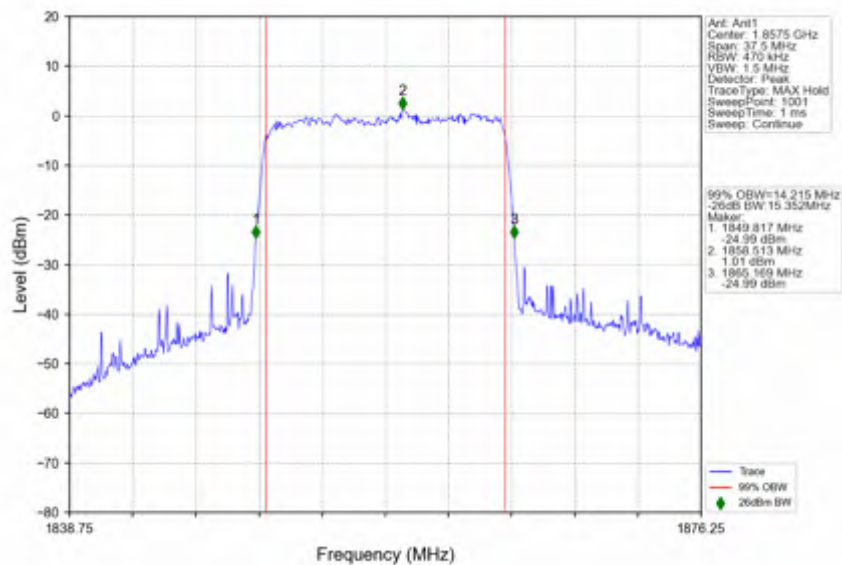
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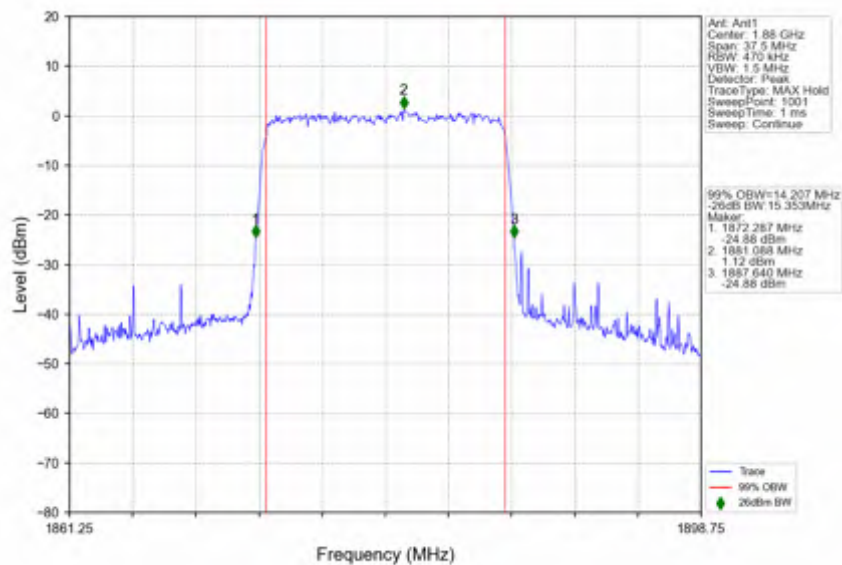
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n2 15kHz SISO NTNv 15MHz CP-OFDM 256 QAM 1857.5MHz Outer Full



n2_15kHz_SISO_NTNV_15MHz_CP-OFDM_256_QAM_1880MHz_Outer_Full

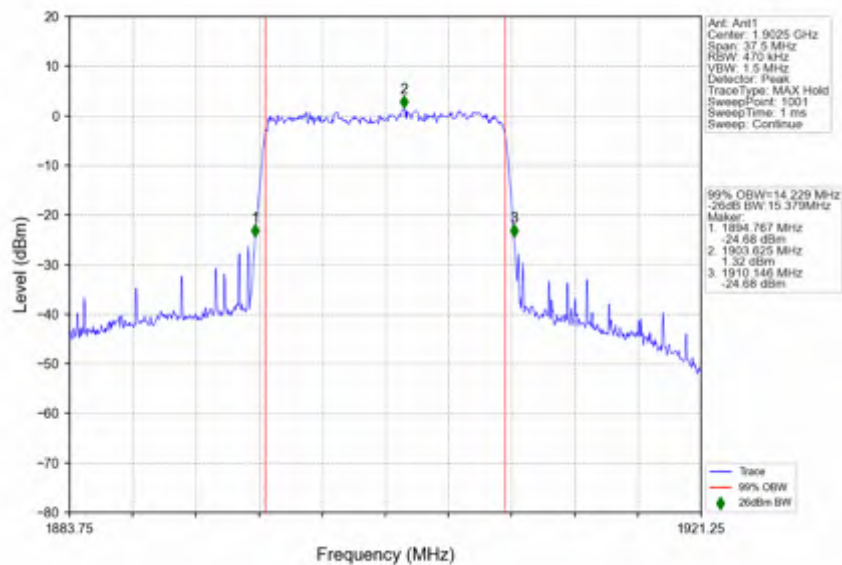


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n2_15kHz_SISO_NTNV_15MHz_CP-OFDM 256 QAM_1902.5MHz_Outer_Full



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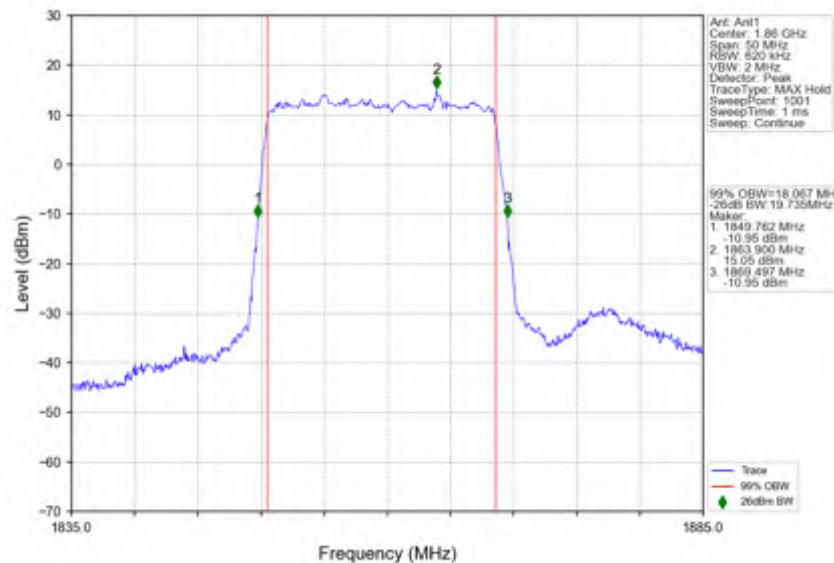
1.4 15k_SISO_20MHz_NTNV

1.4.1 Test Result

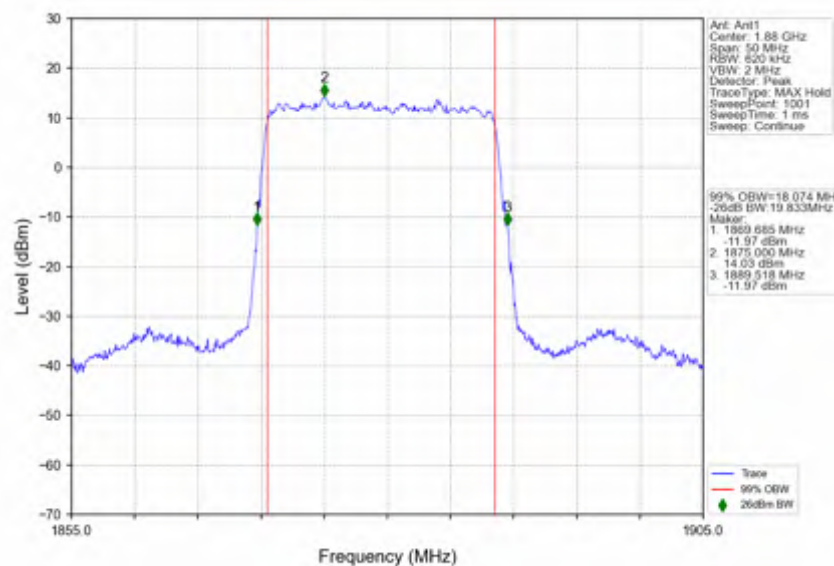
5G NR n2 SCS=15kHz SISO 20MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	1860	Outer_Full	18.07	19.73	/	Pass
	1880	Outer_Full	18.07	19.83	/	Pass
	1900	Outer_Full	18.11	19.85	/	Pass
DFT-s-OFDM QPSK	1860	Outer_Full	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



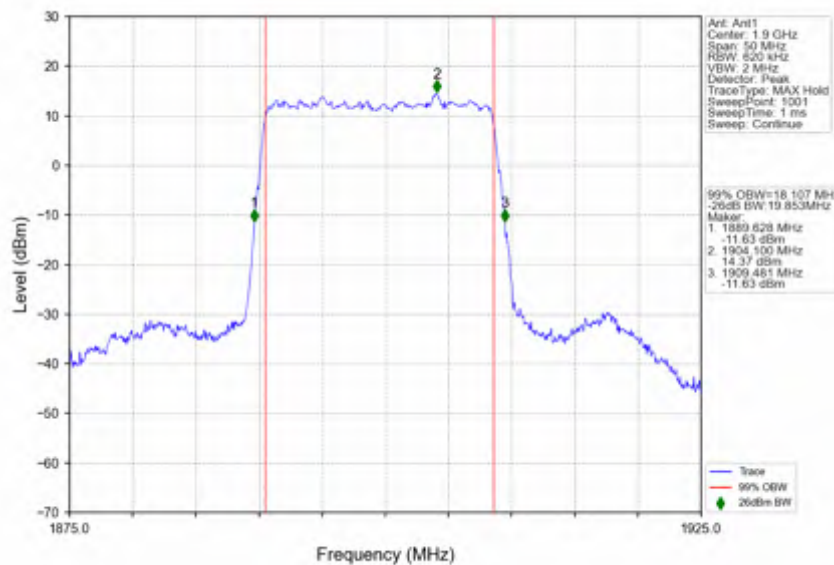
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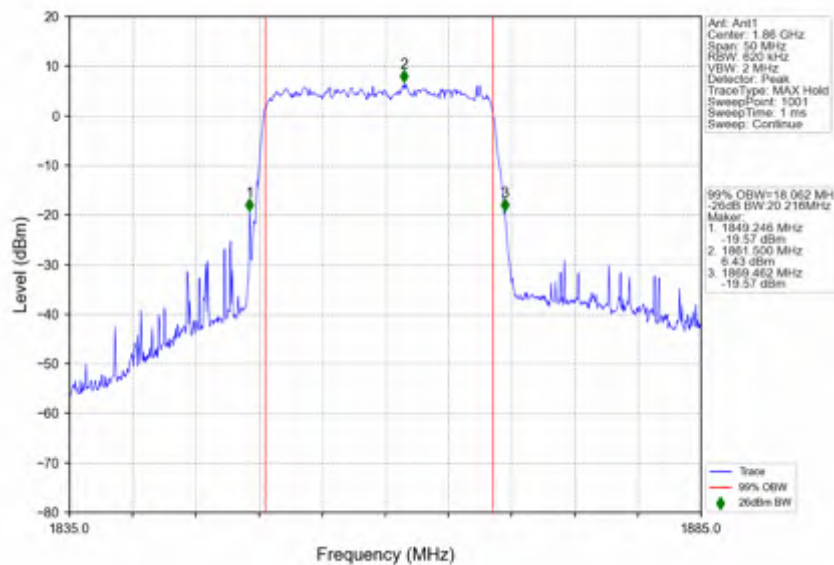
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n2_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_1900MHz_Outer_Full



n2_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_1860MHz_Outer_Full



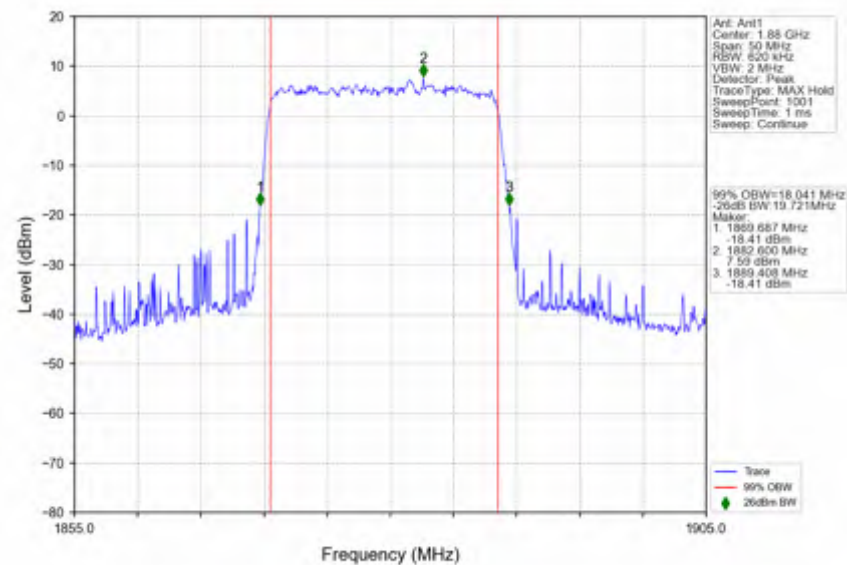
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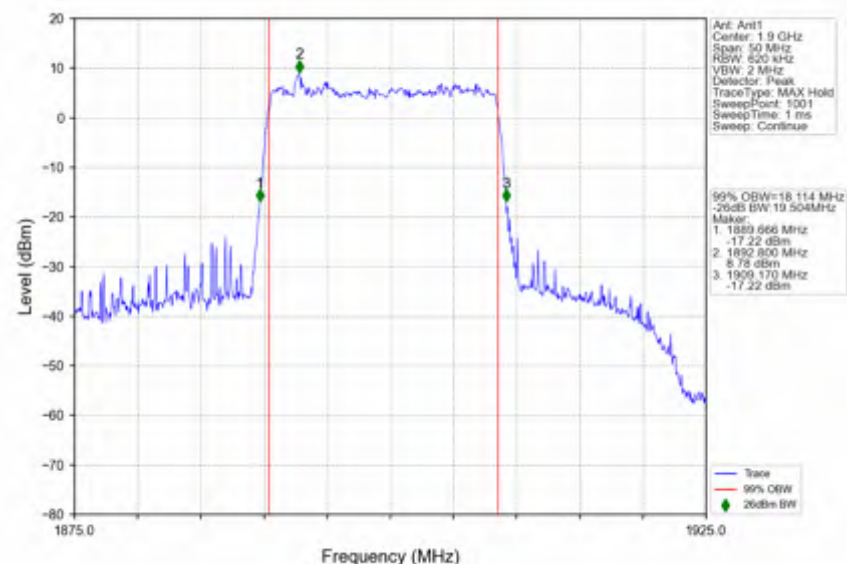
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n2_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_QPSK_1880MHz_Outer_Full



n2_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_QPSK_1900MHz_Outer_Full



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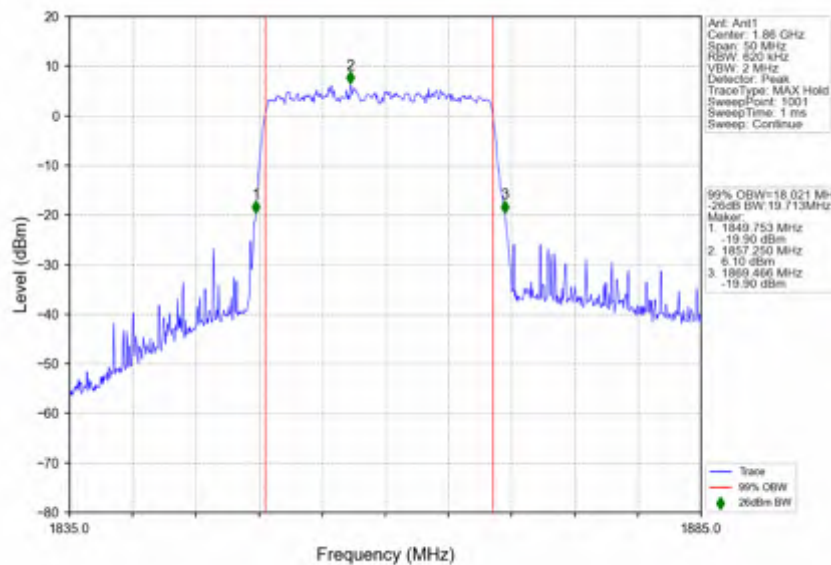
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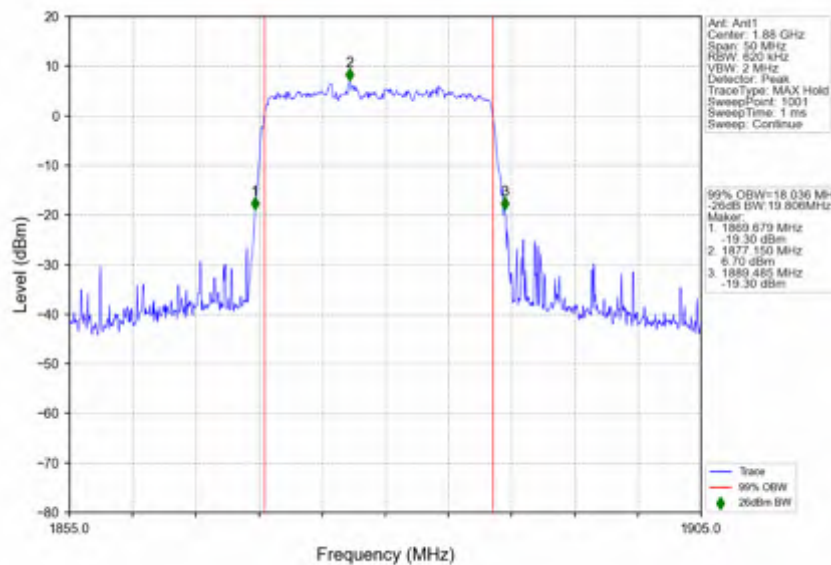
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n2_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_16 QAM_1860MHz_Outer_Full



n2_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_16 QAM_1880MHz_Outer_Full



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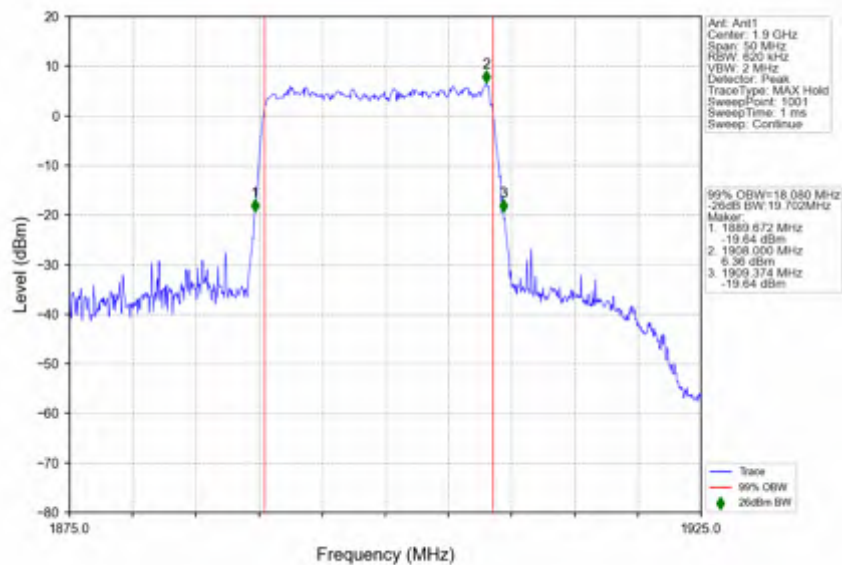
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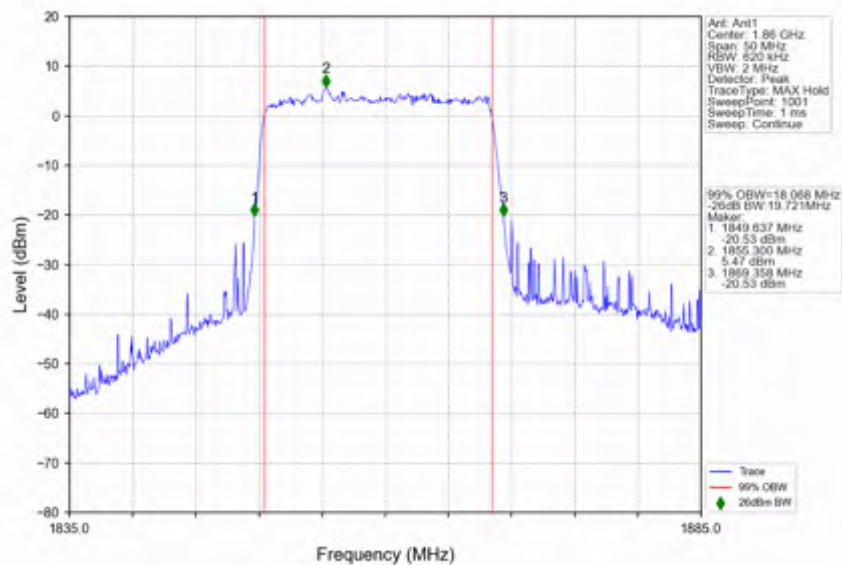
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n2_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM 16 QAM_1900MHz_Outer_Full



n2_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM 64 QAM_1860MHz_Outer_Full



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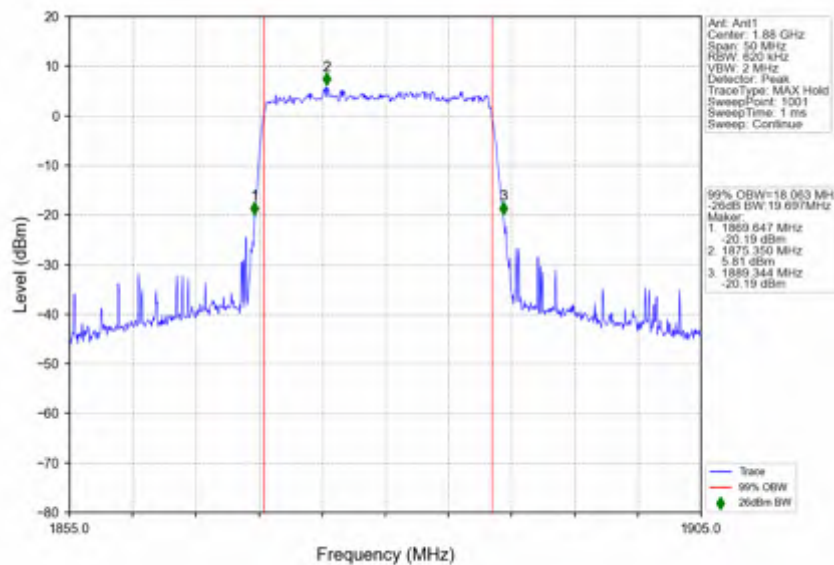
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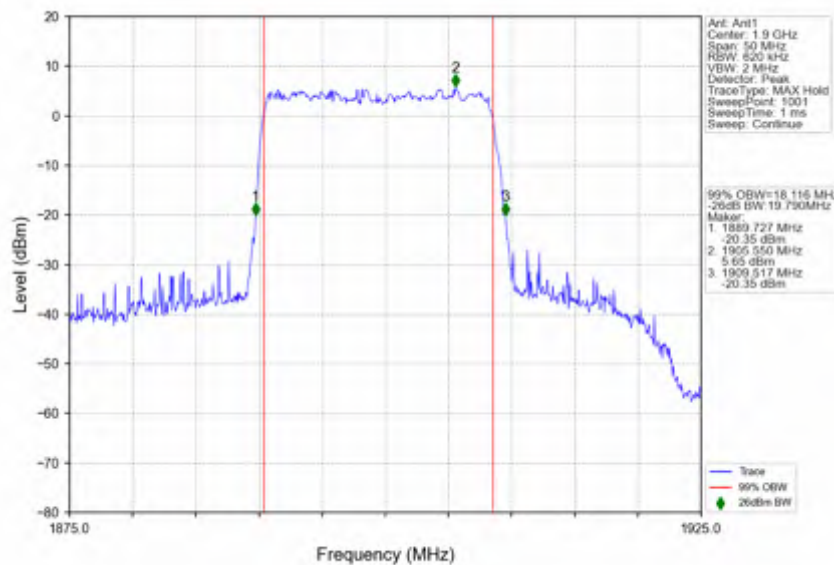
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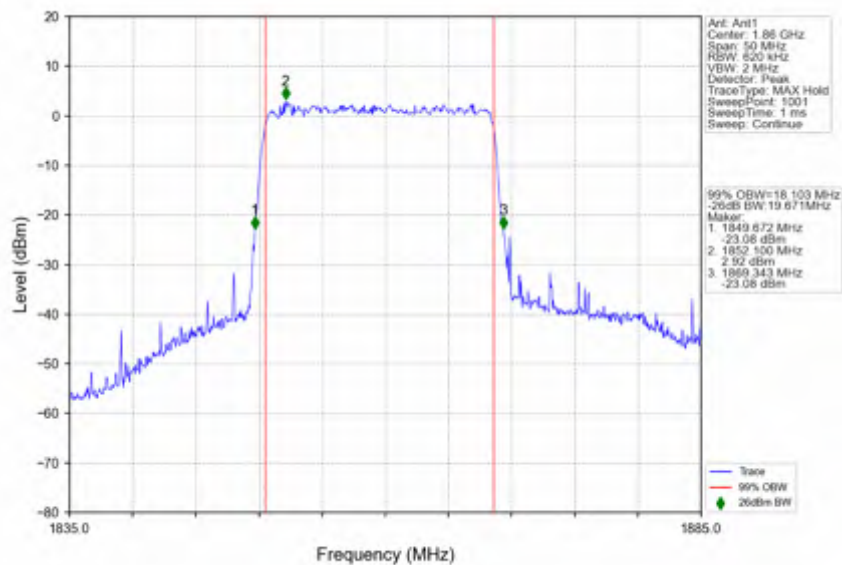


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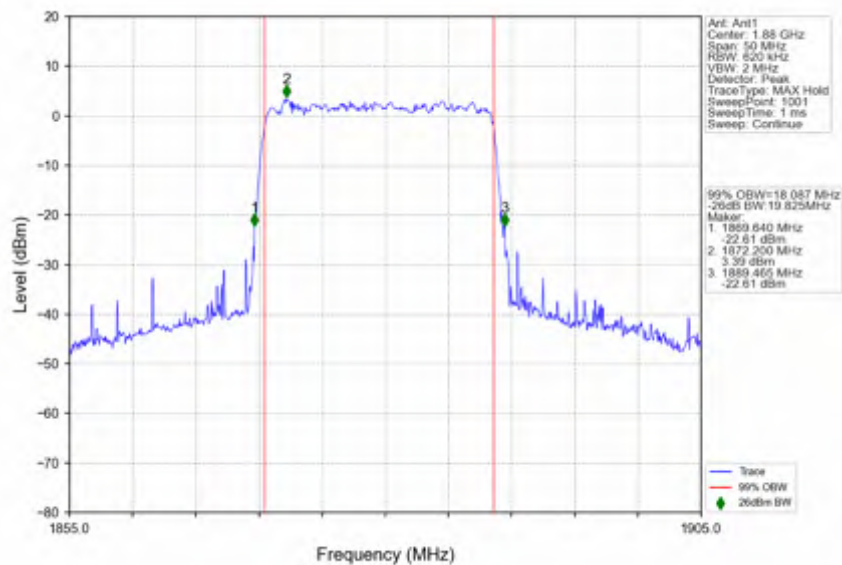
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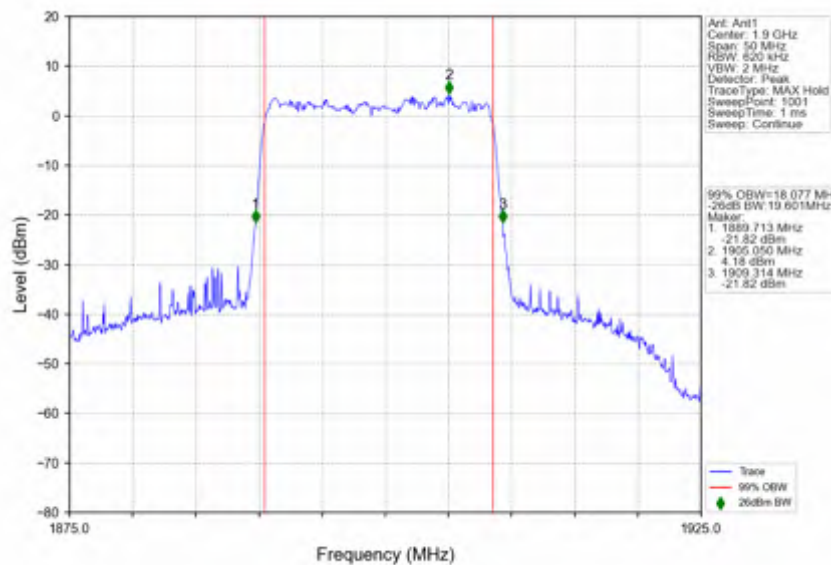
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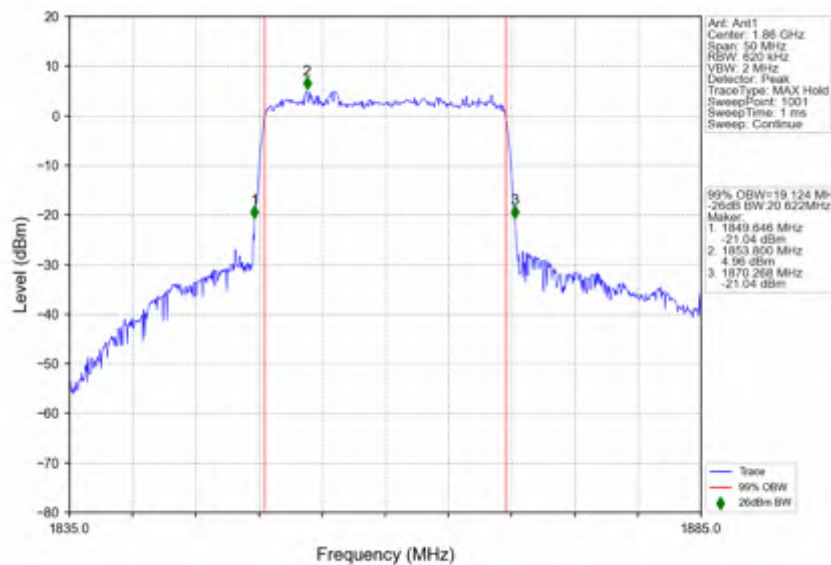
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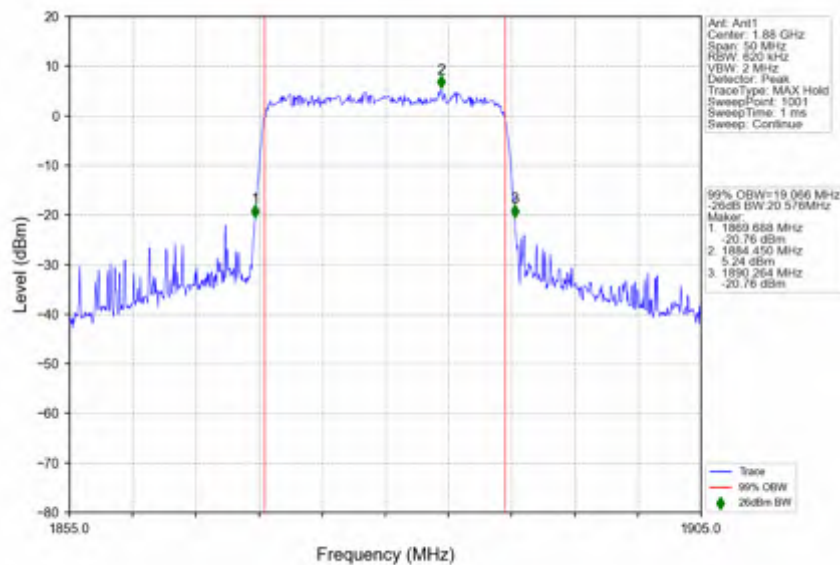
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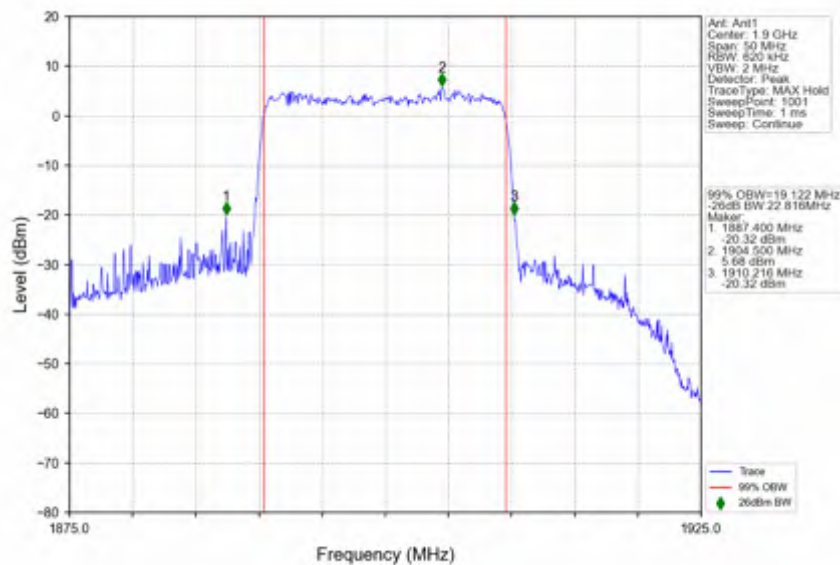
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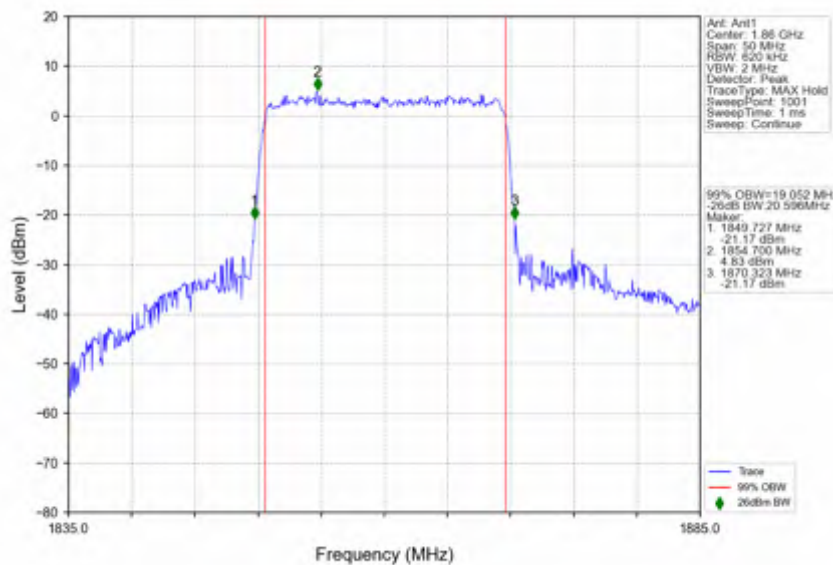
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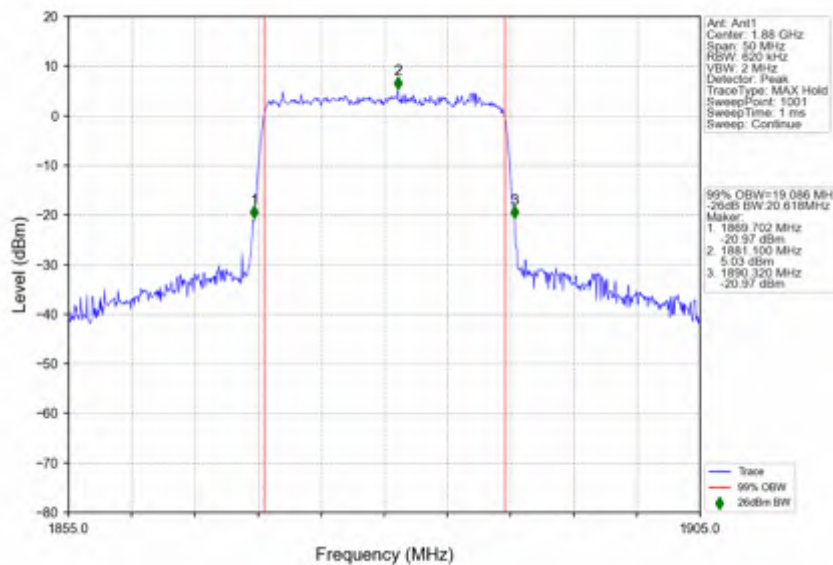
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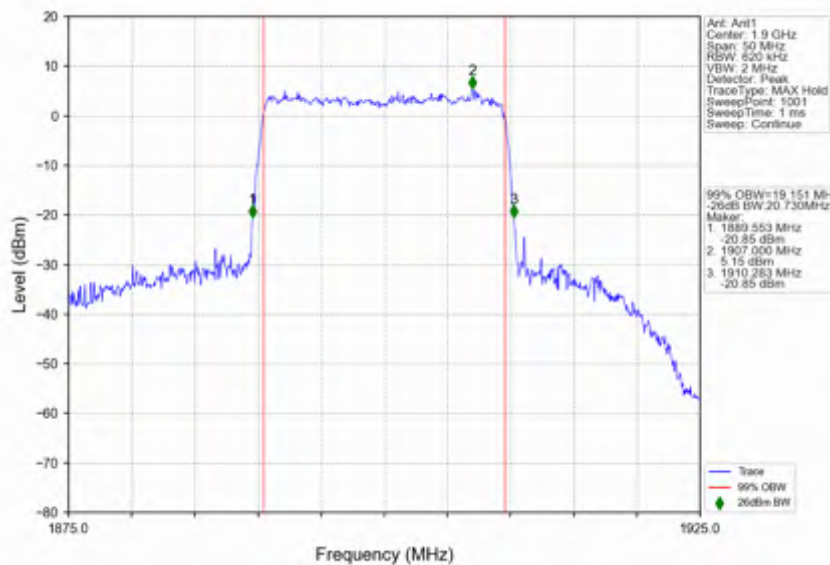
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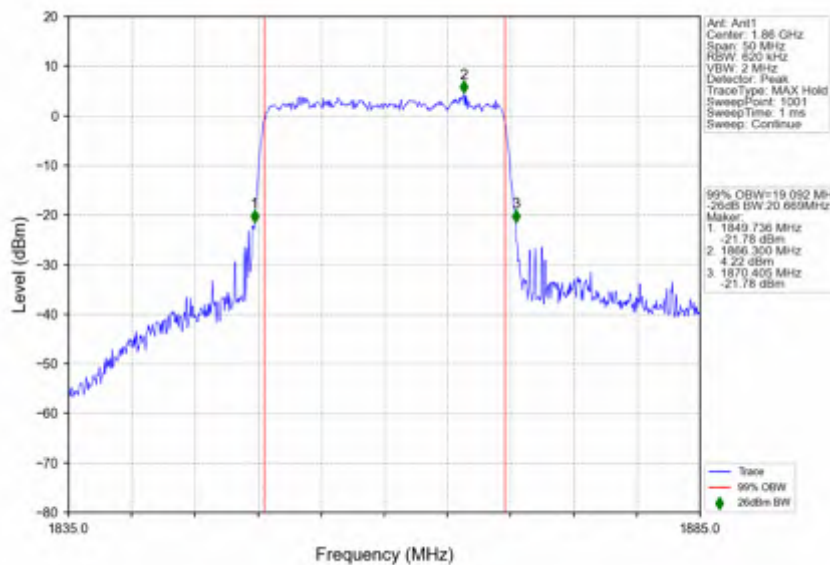
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n2_15kHz_SISO_NTNV_20MHz_CP-OFDM 64 QAM_1860MHz_Outer_Full



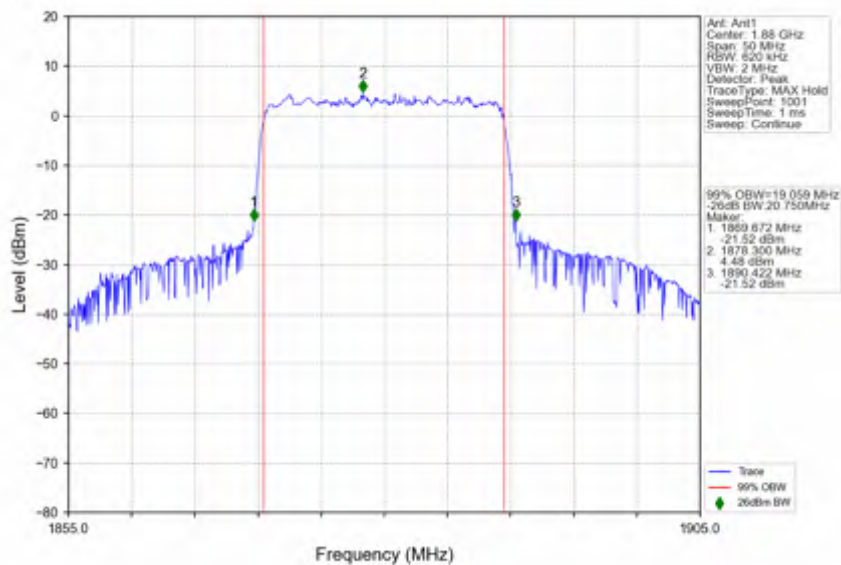
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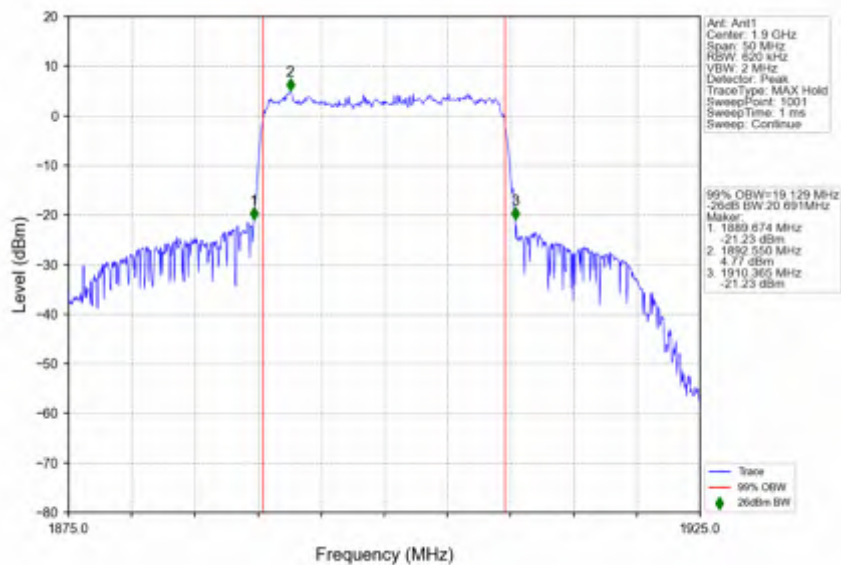
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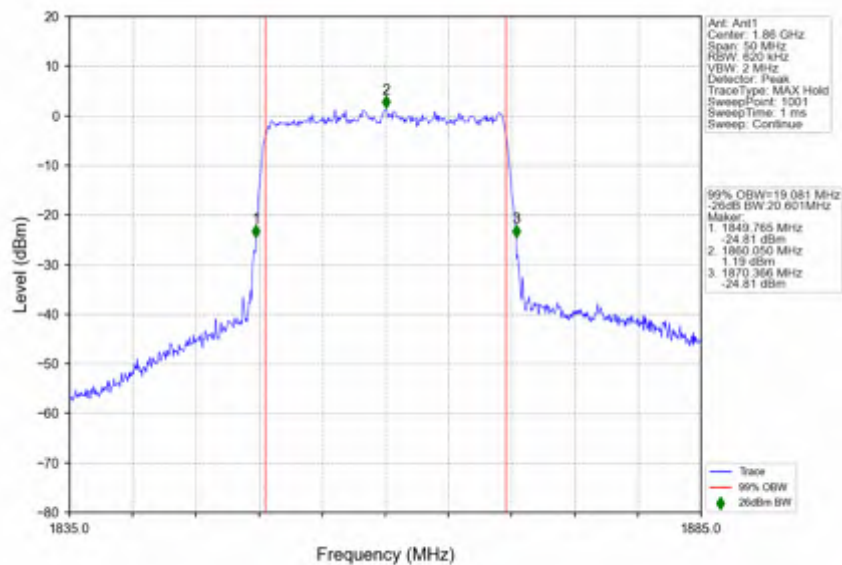
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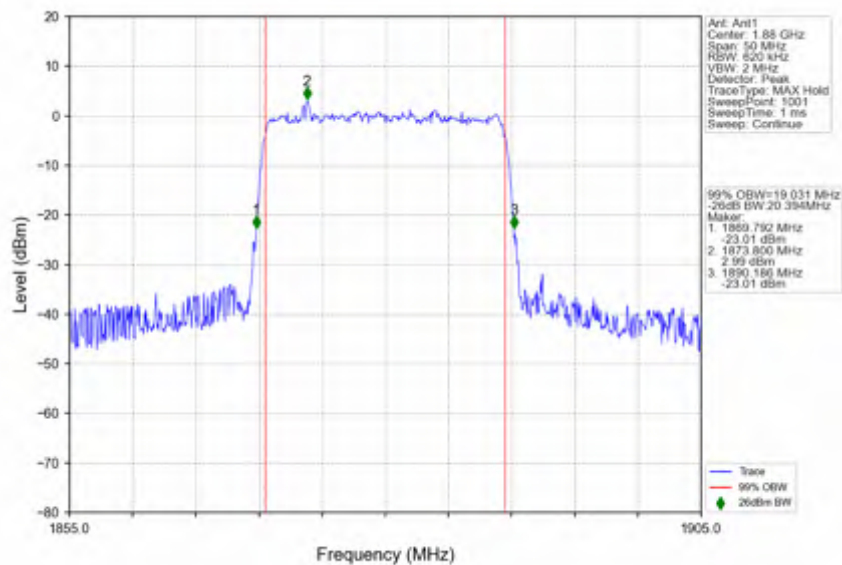
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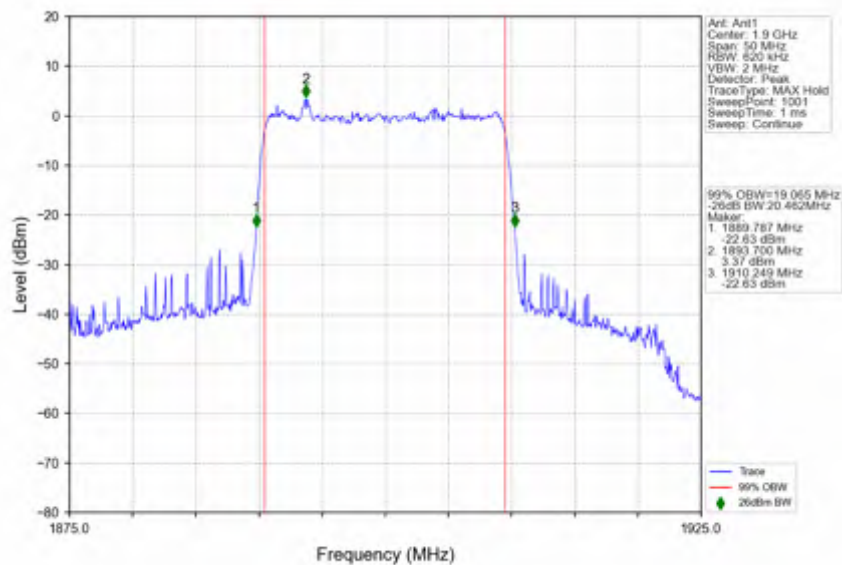


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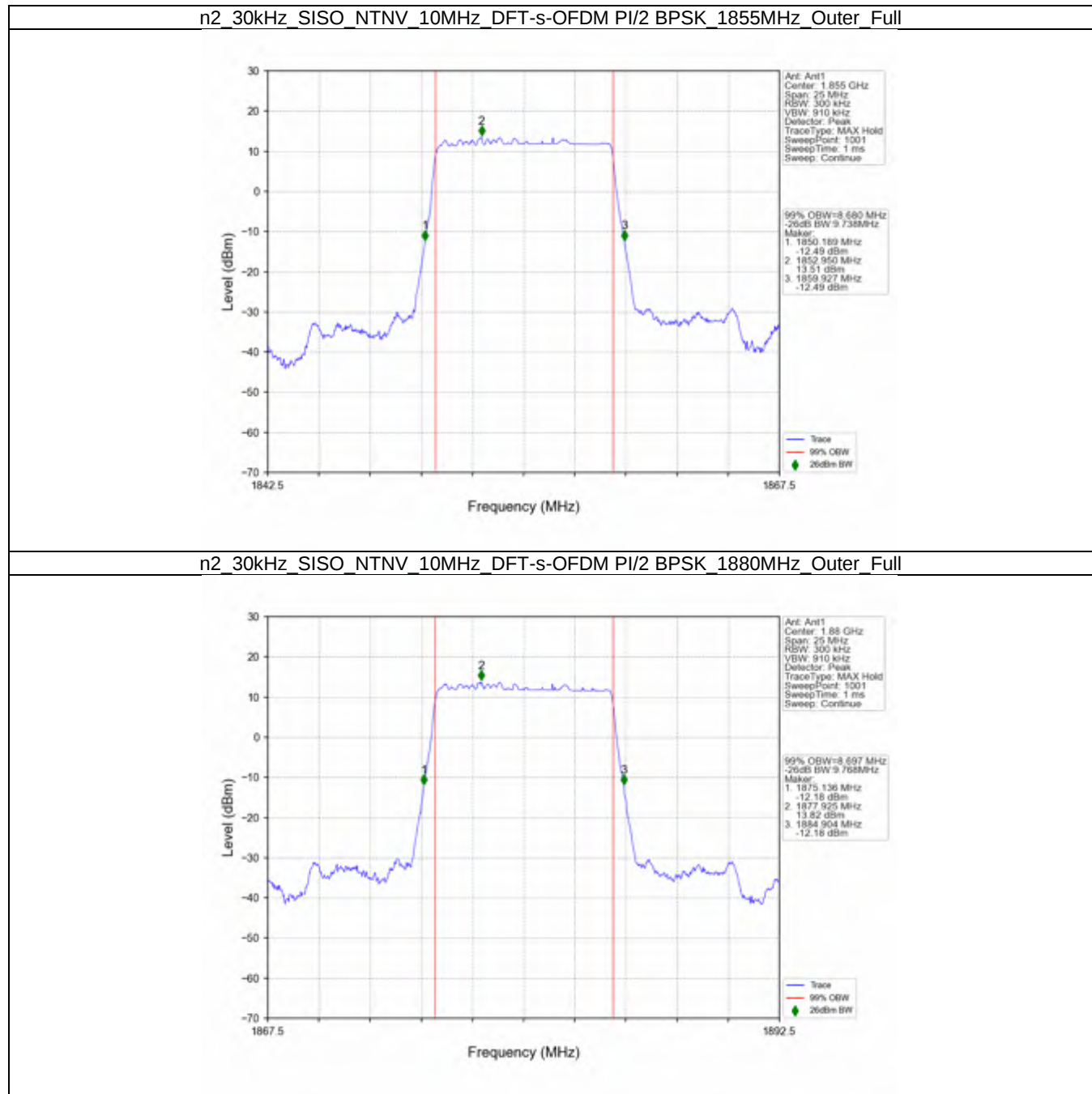
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1.5 30k_SISO_10MHz_NTNV

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

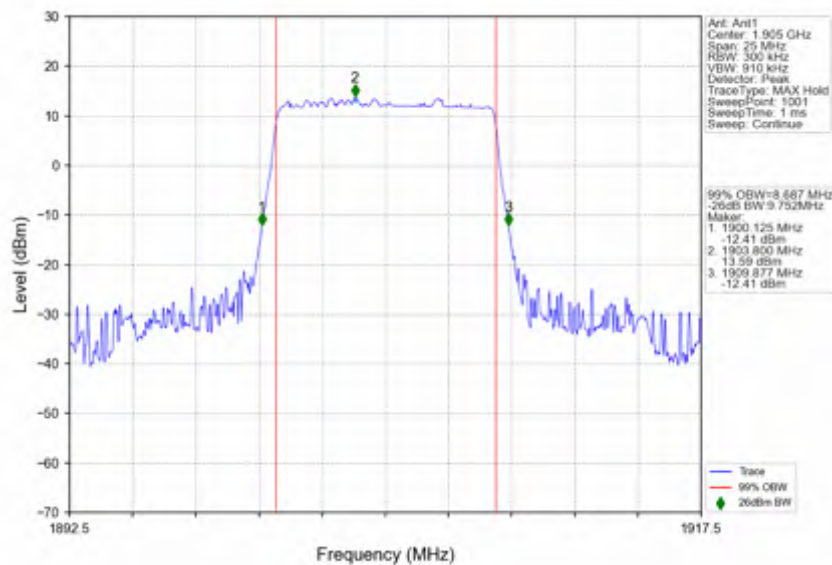


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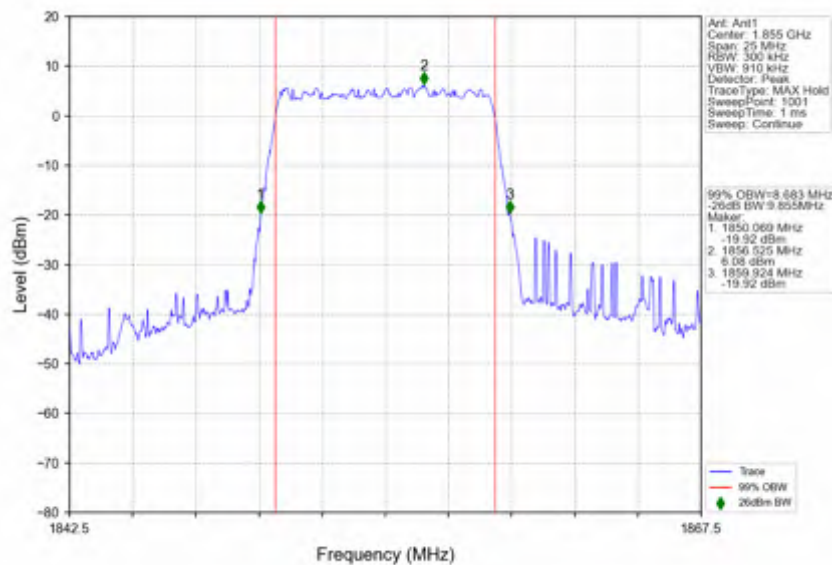
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n2_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_1905MHz_Outer_Full



n2_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_1855MHz_Outer_Full



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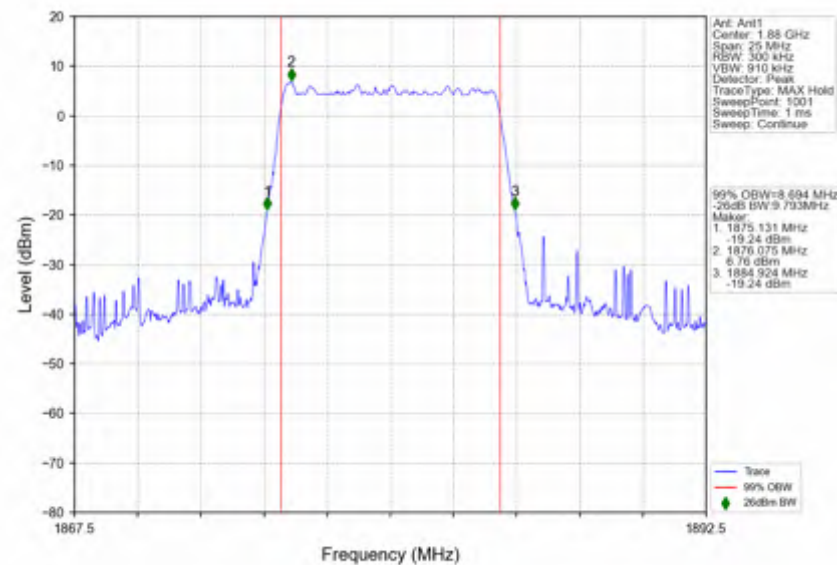
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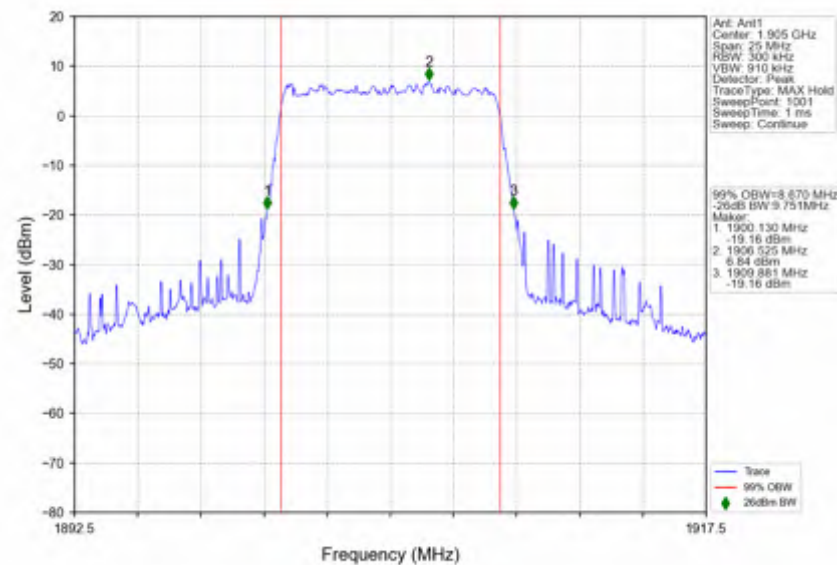
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n2_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_QPSK_1880MHz_Outer_Full



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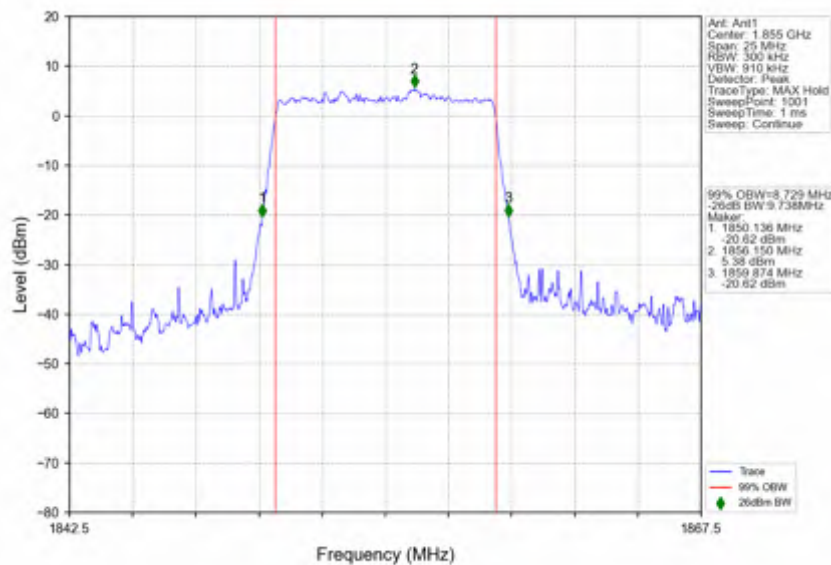
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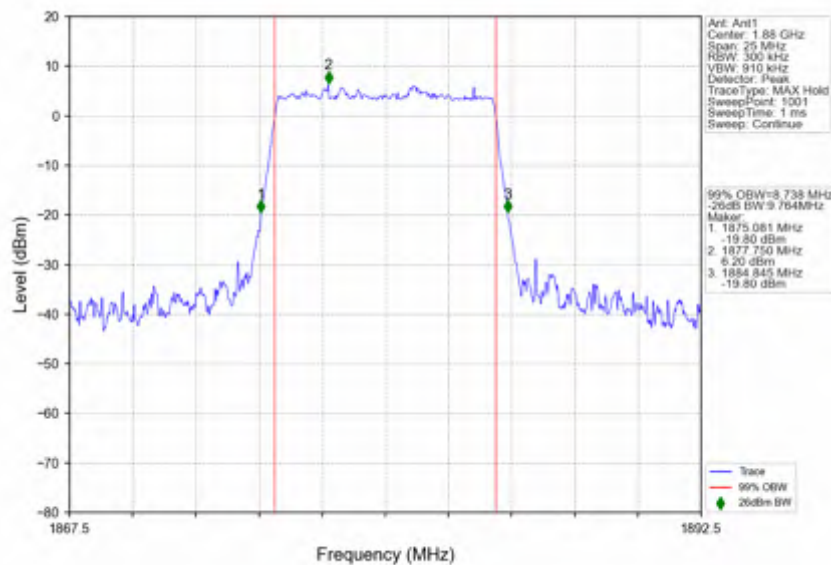
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n2_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_16_QAM_1855MHz_Outer_Full



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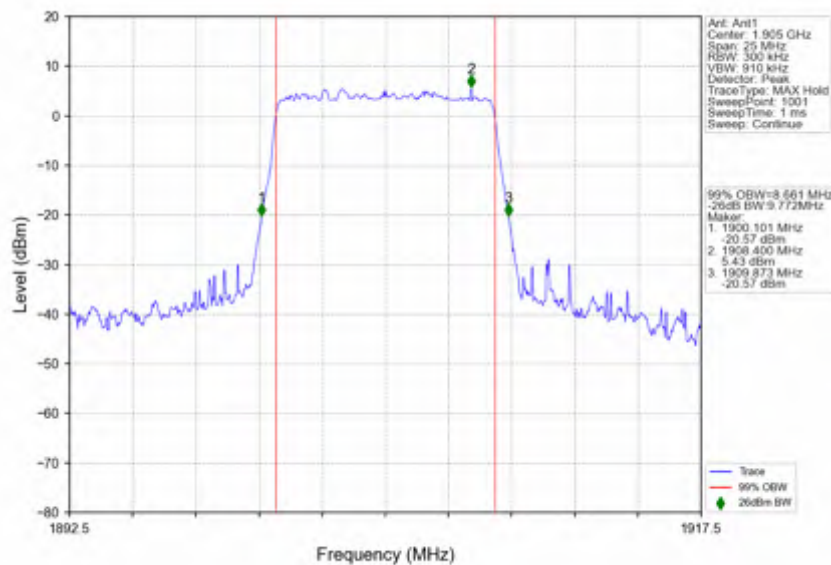
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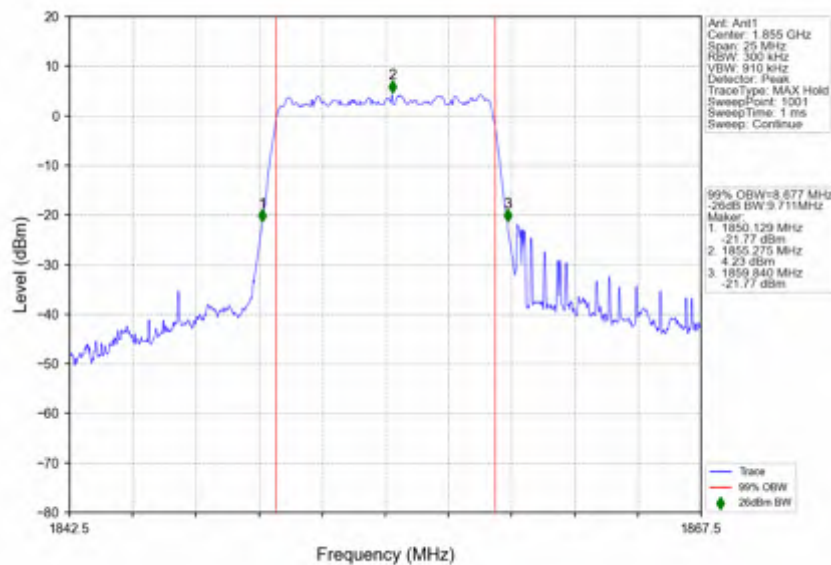
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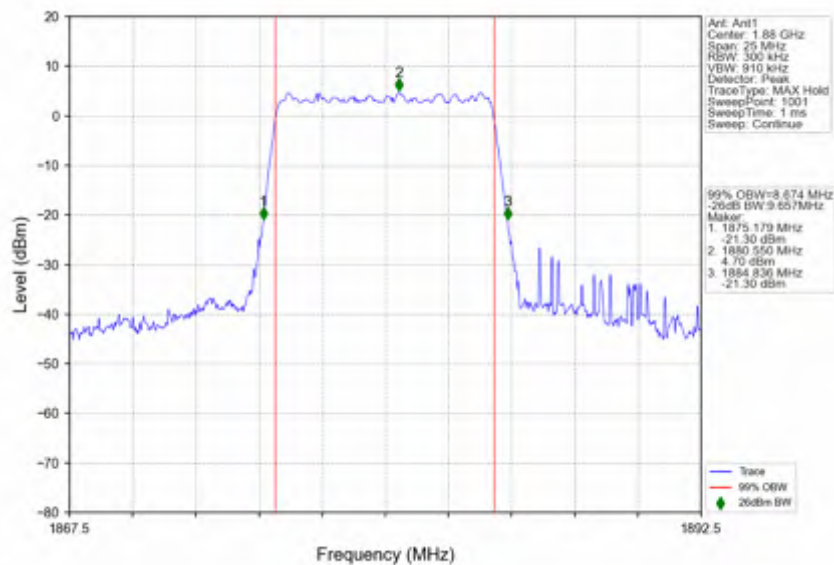
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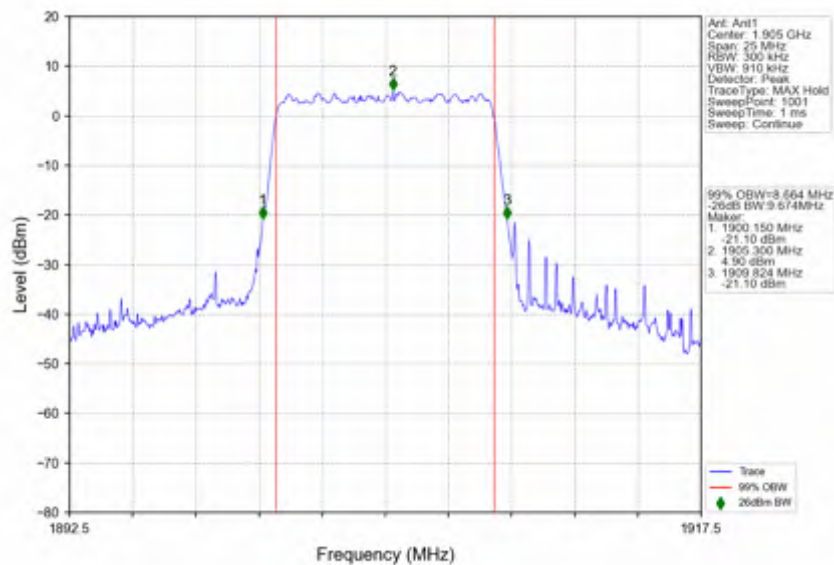
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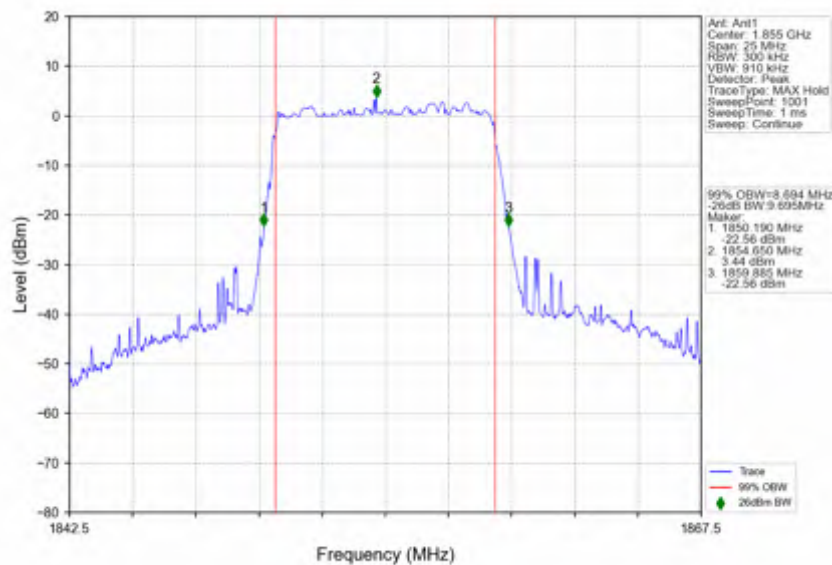
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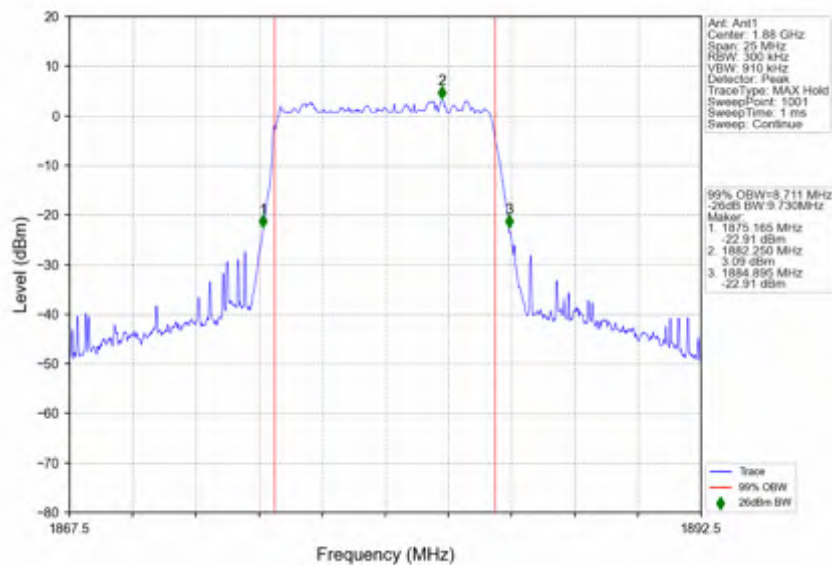
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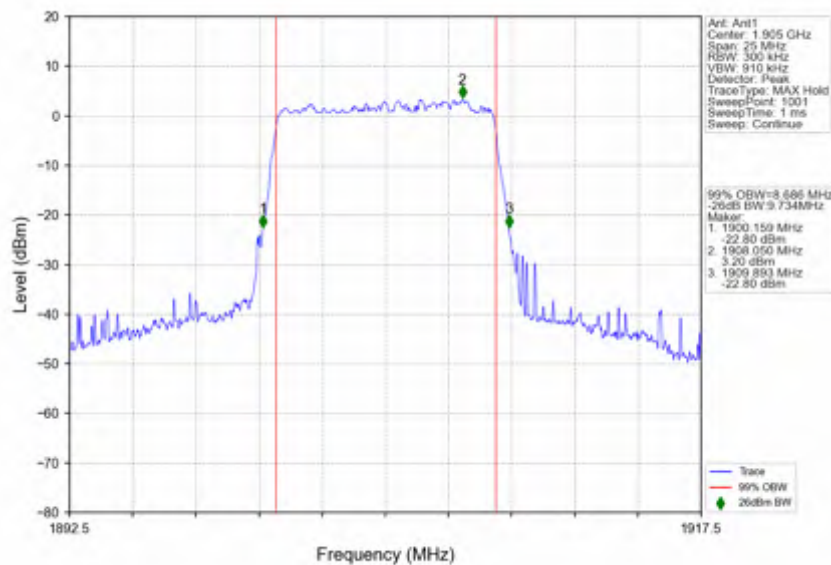
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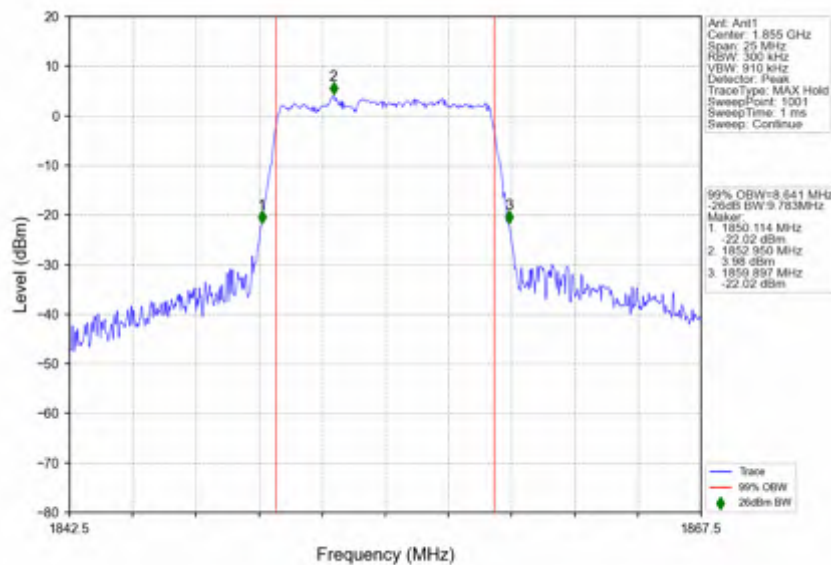
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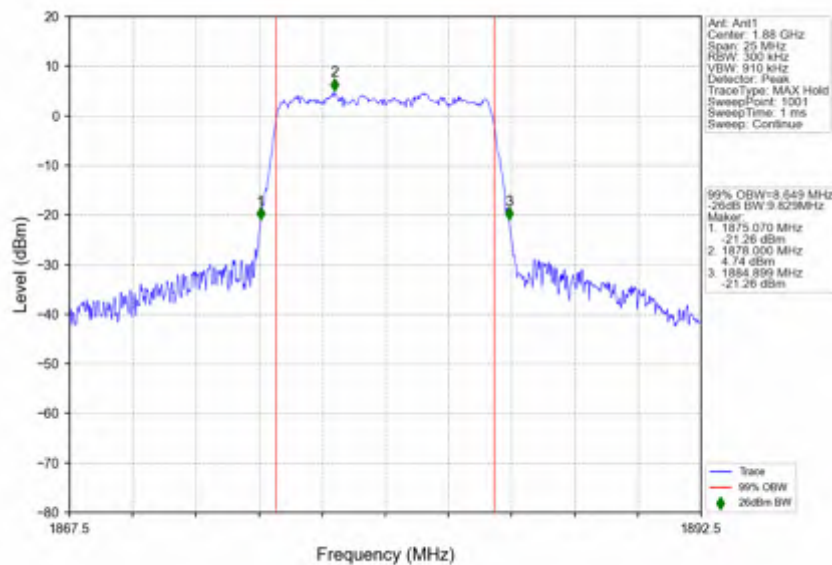
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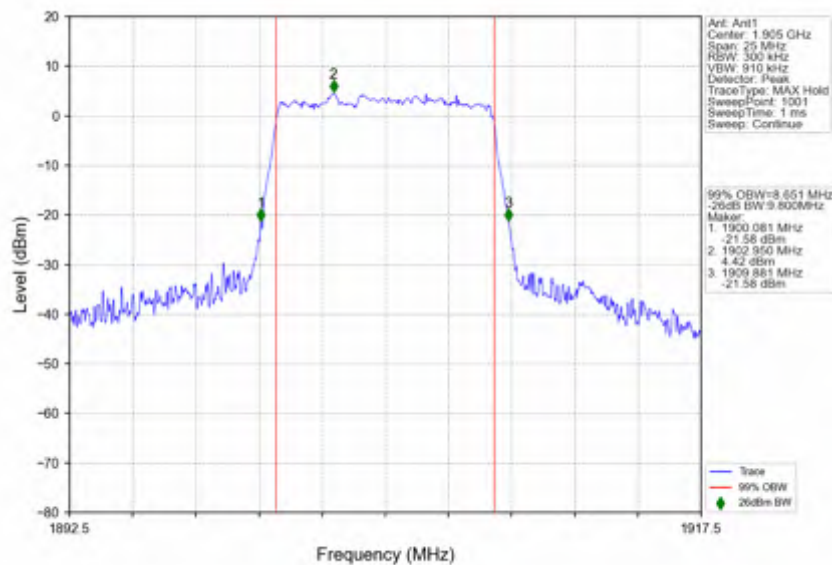
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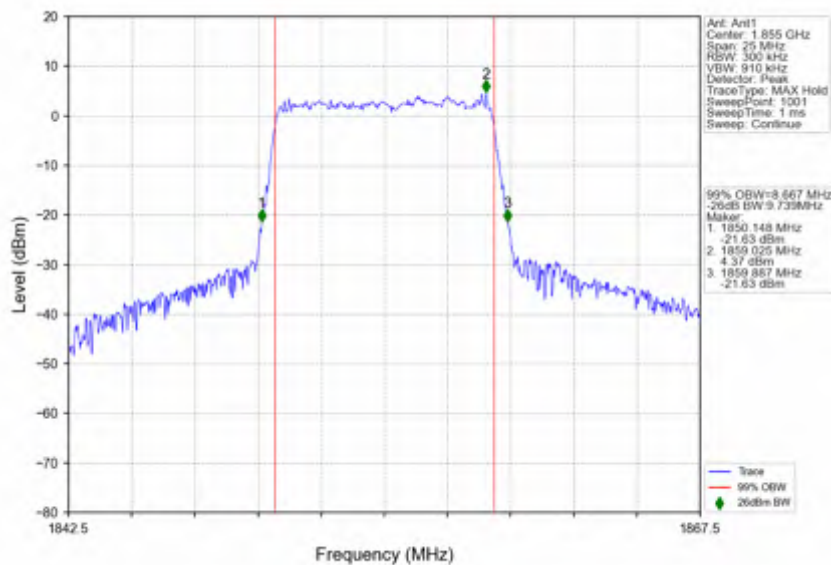


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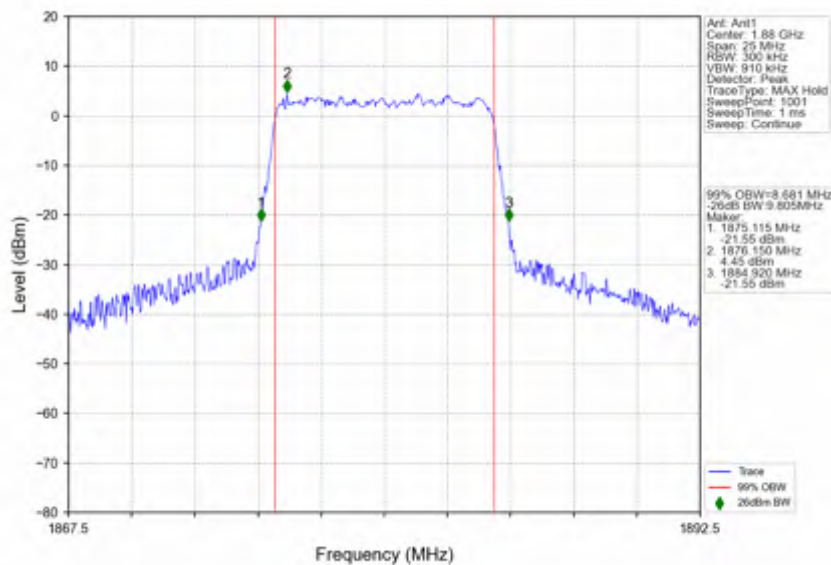
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n2 30kHz SISO NTN 10MHz CP-OFDM 16 QAM 1880MHz Outer Full

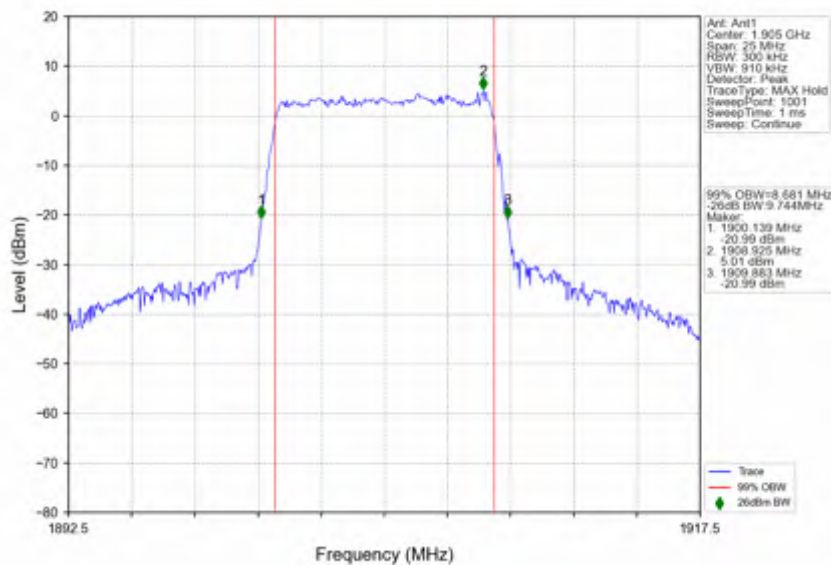


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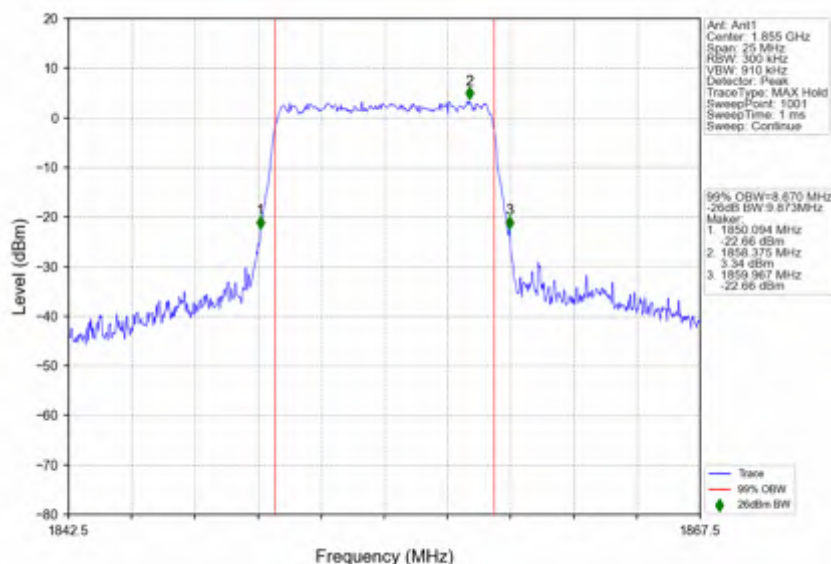
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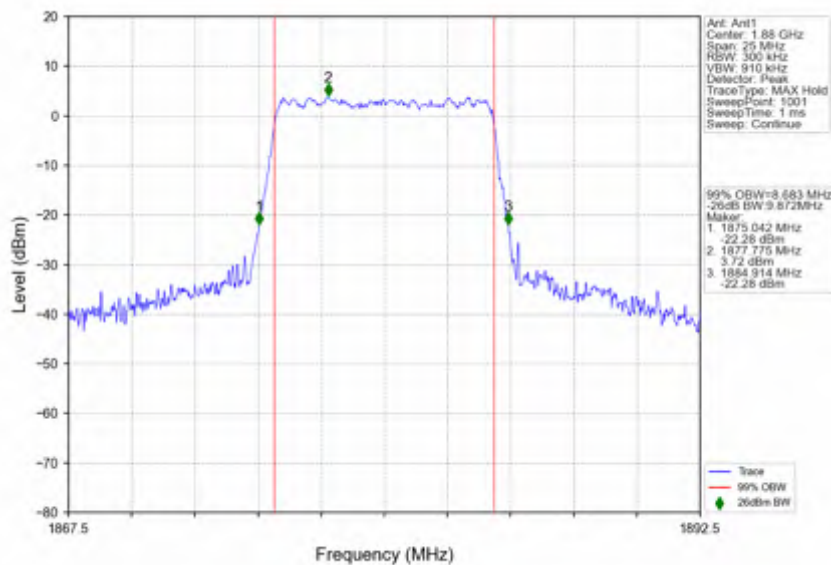
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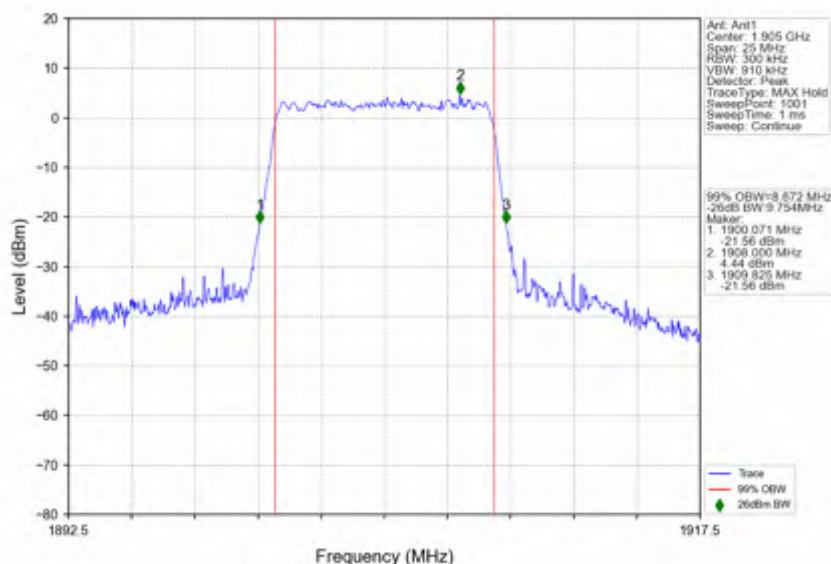
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n2_30kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_1905MHz_Outer_Full



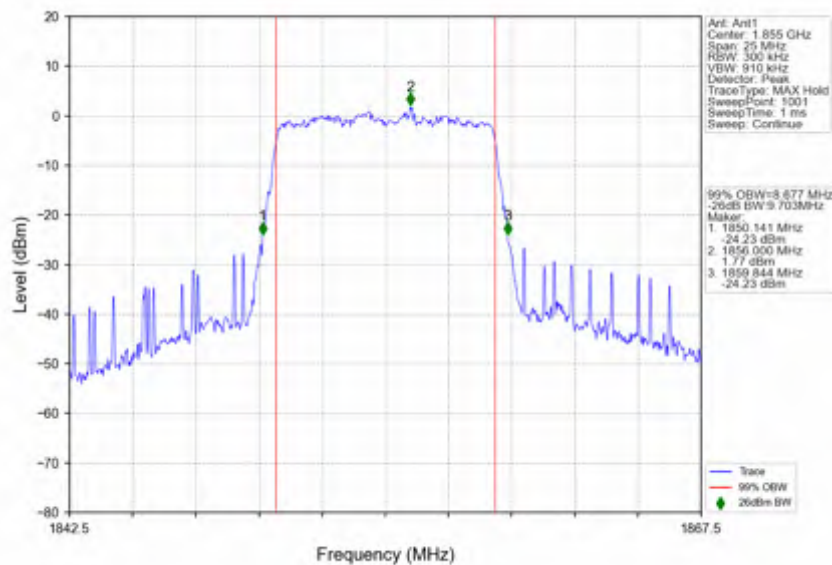
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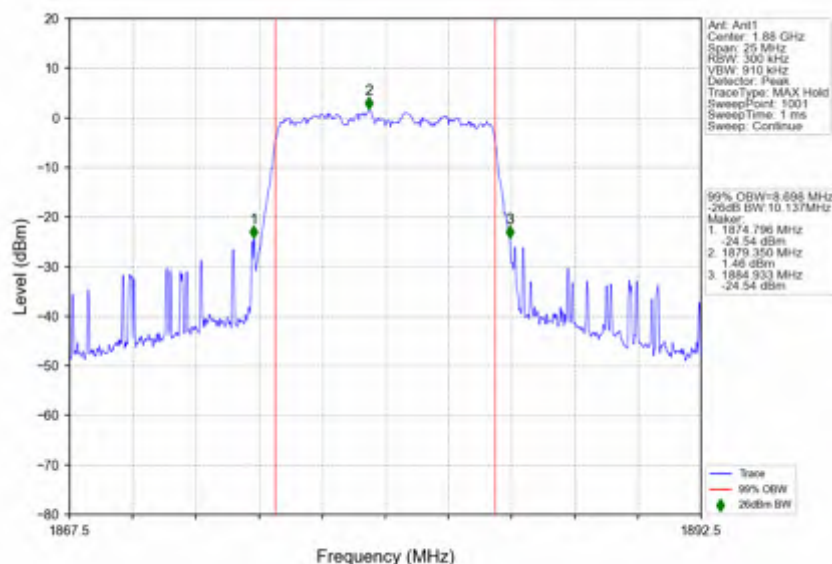
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n2_30kHz_SISO_NTNV_10MHz_CP-OFDM_256_QAM_1880MHz_Outer_Full



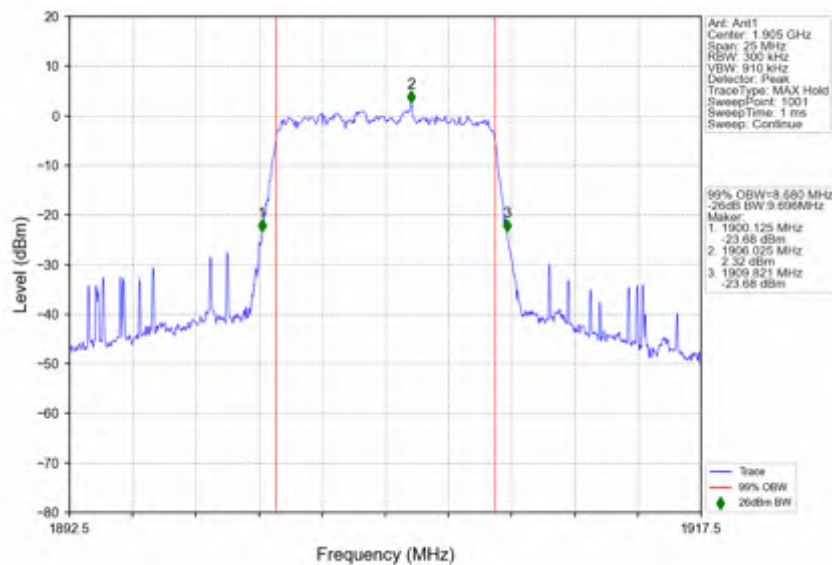
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n2_30kHz_SISO_NTNV_10MHz_CP-OFDM_256_QAM_1905MHz_Outer_Full



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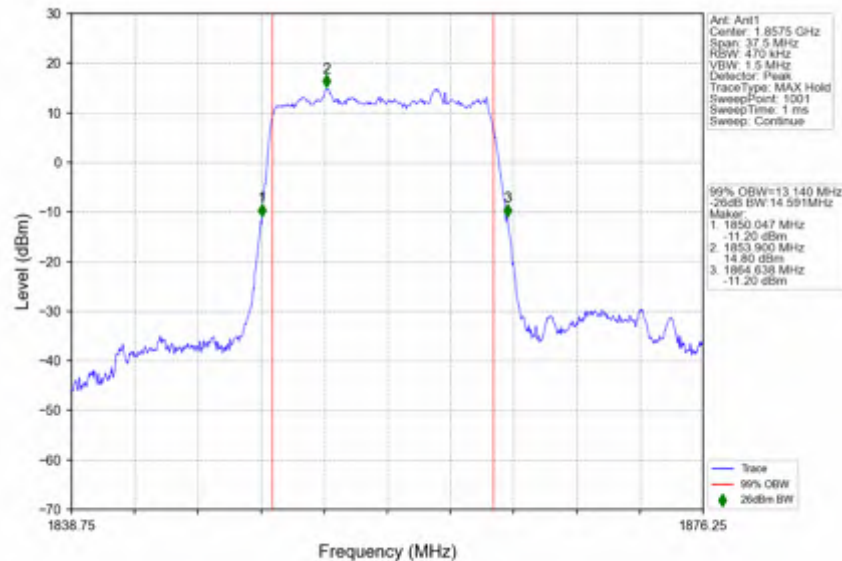
1.6 30k_SISO_15MHz_NTNV

1.6.1 Test Result

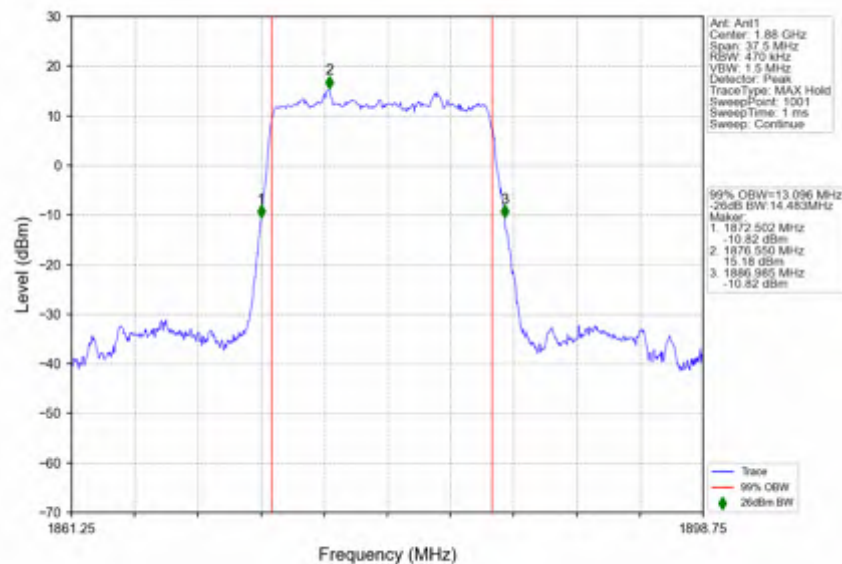
5G NR n2 SCS=30kHz SISO 15MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	1857.5	Outer_Full	13.14	14.59	/	Pass
	1880	Outer_Full	13.10	14.48	/	Pass
	1902.5	Outer_Full	13.12	14.54	/	Pass
DFT-s-OFDM QPSK	1857.5	Outer_Full	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



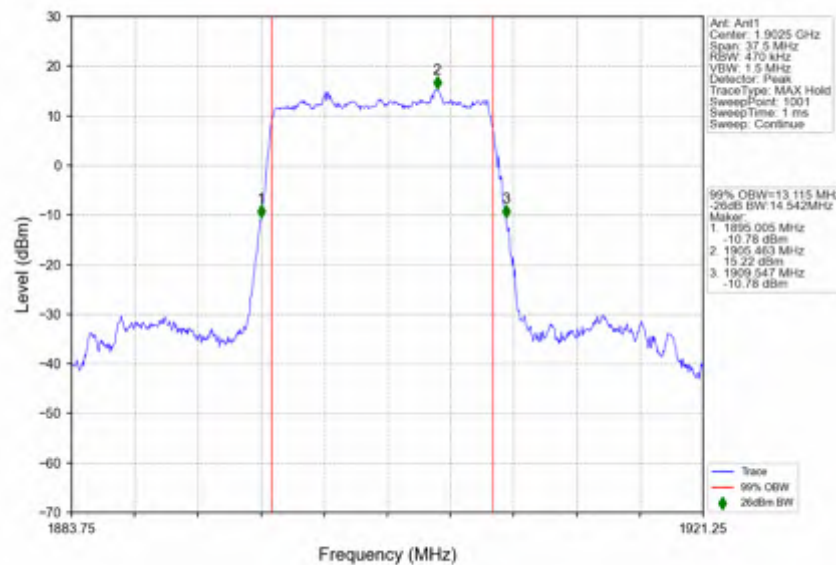
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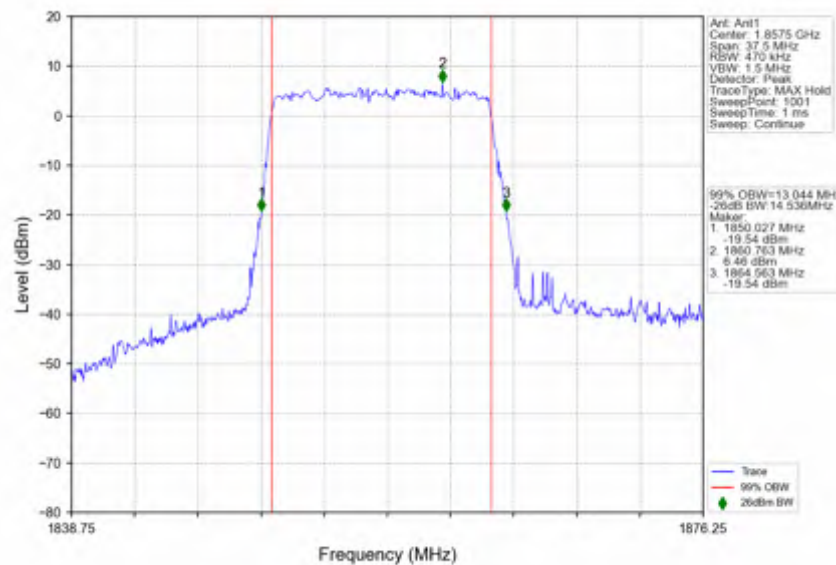
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n2_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_1902.5MHz_Outer_Full



n2_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_1857.5MHz_Outer_Full



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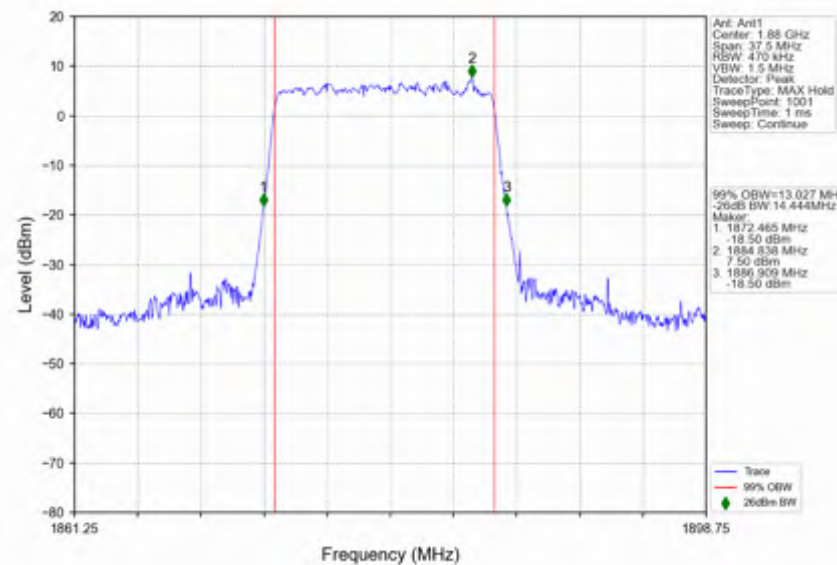
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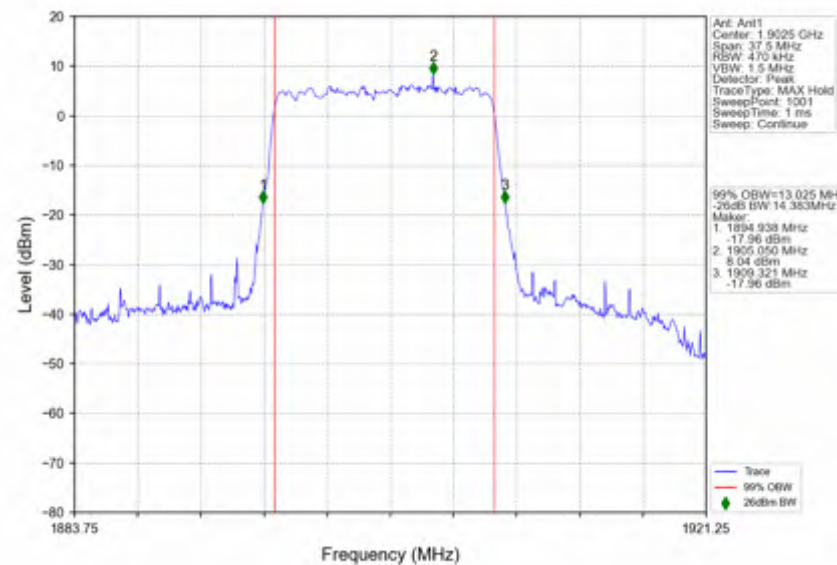
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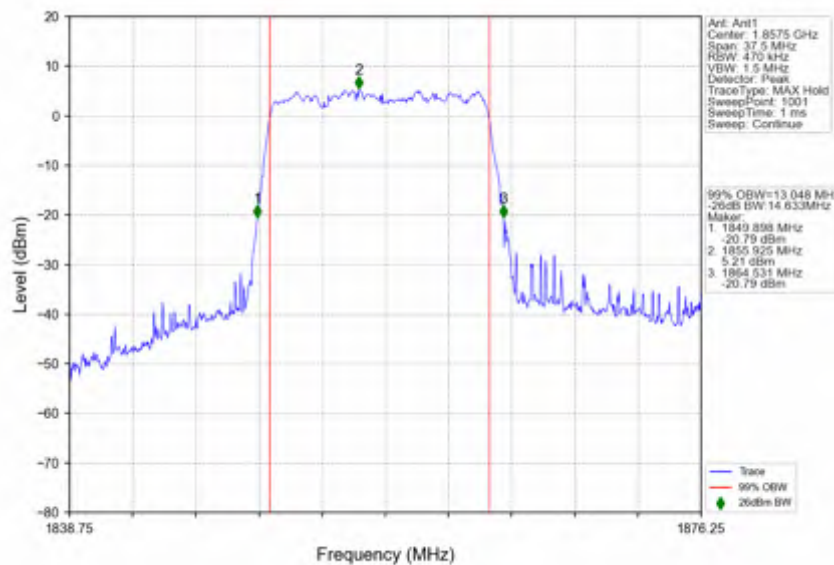
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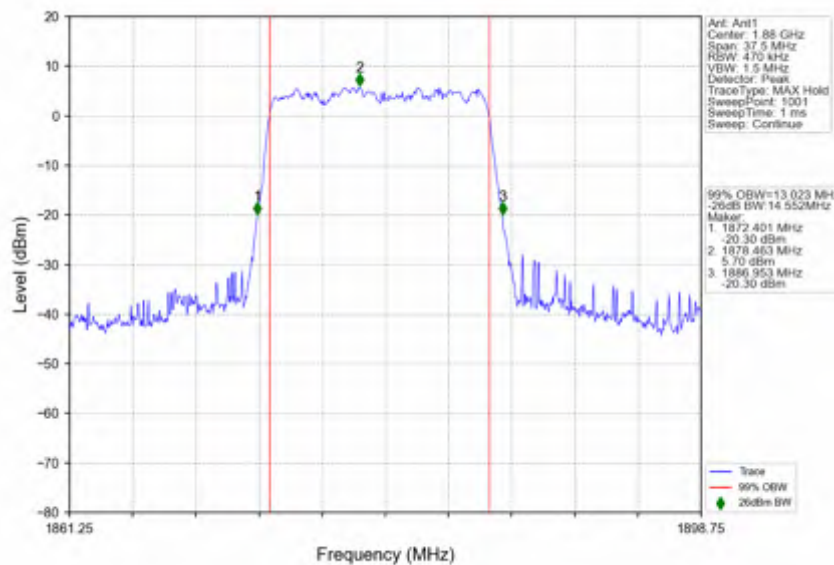
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n2 30kHz SISO NTV 15MHz DFT-s-OFDM 16 QAM 1857.5MHz Outer Full



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

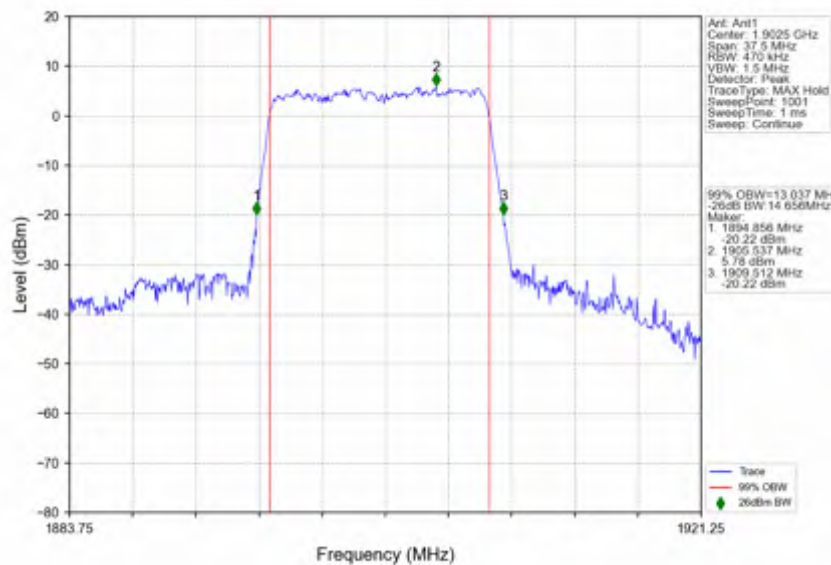


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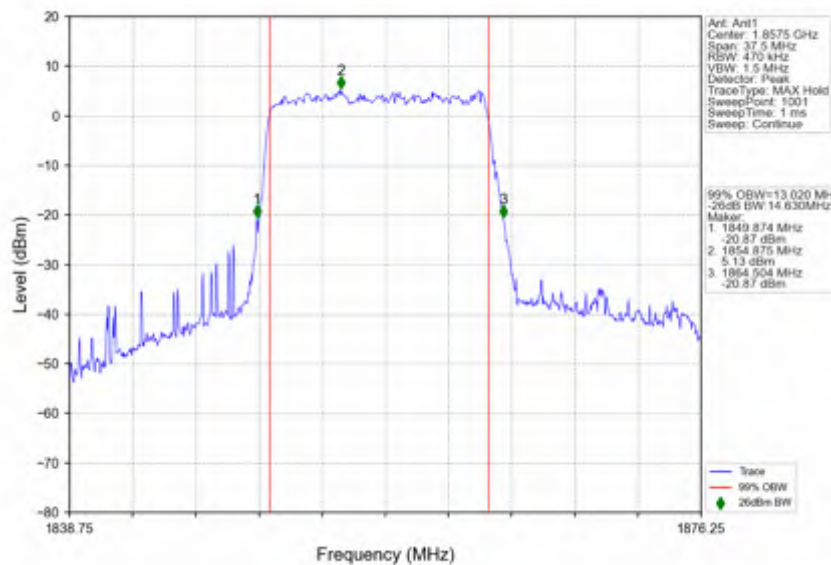
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n2 30kHz SISO NTV 15MHz DFT-s-OFDM 64 QAM 1857.5MHz Outer Full

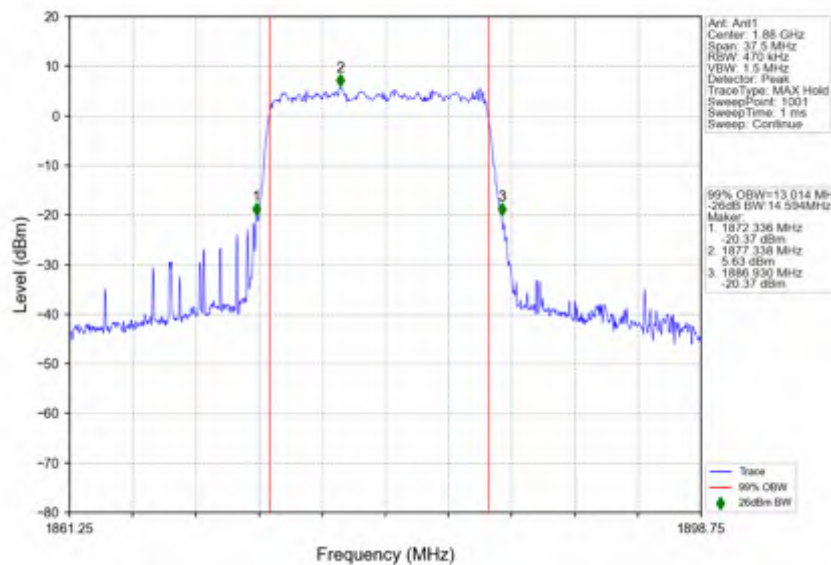


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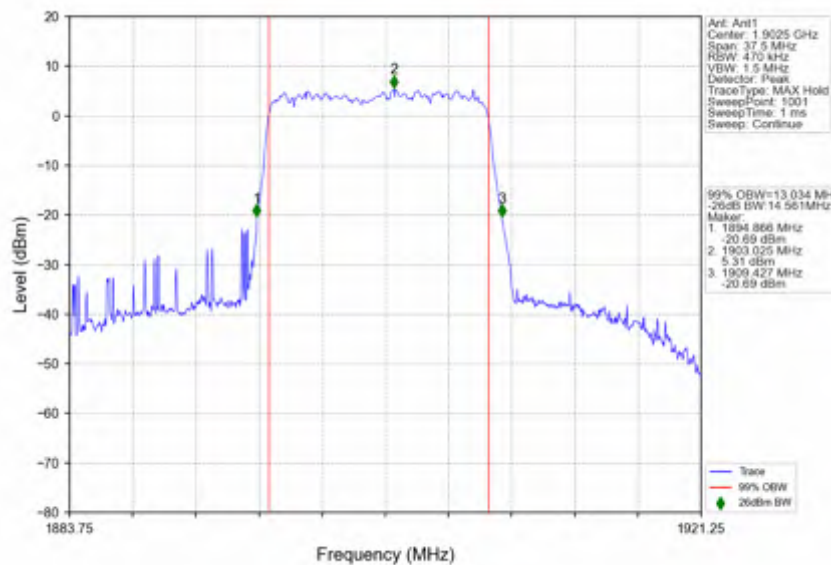
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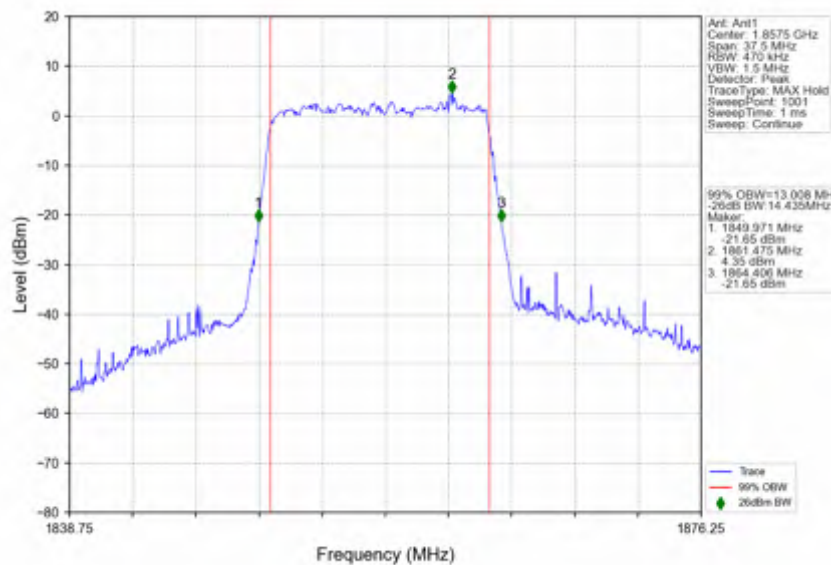
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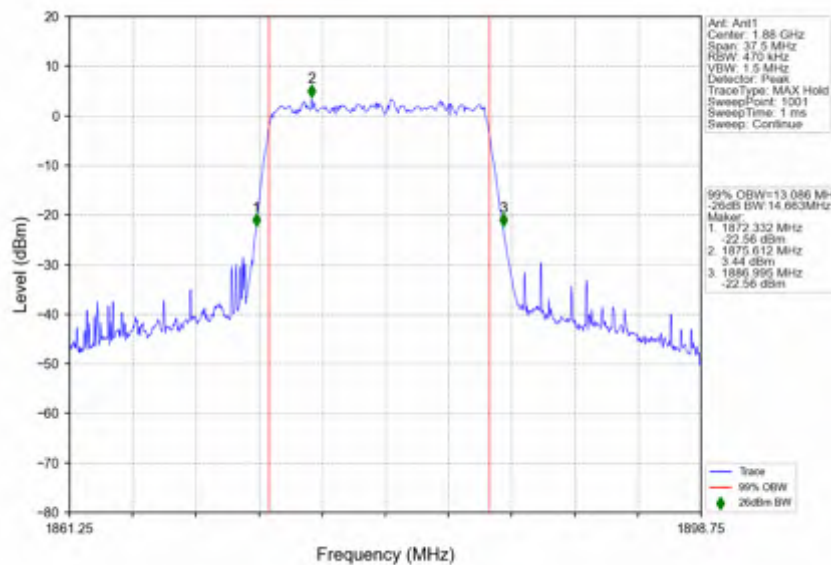
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n2_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM 256 QAM_1880MHz_Outer_Full



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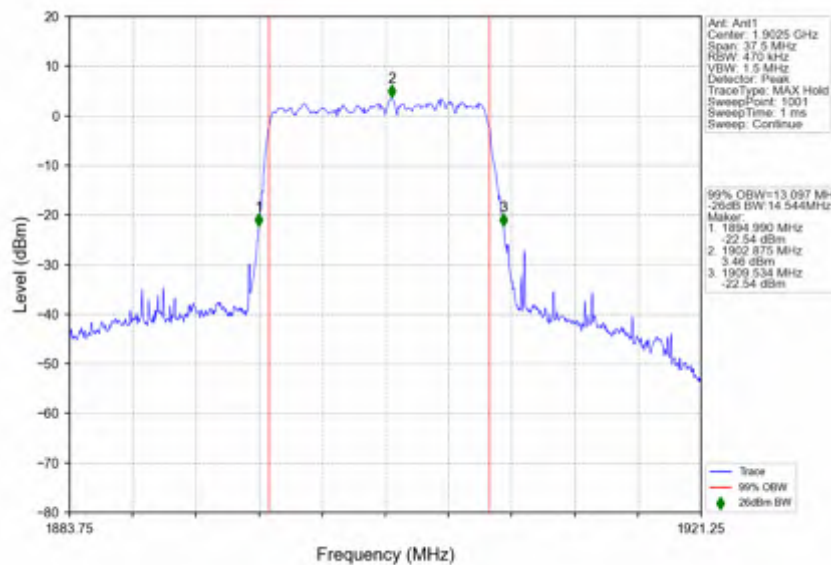
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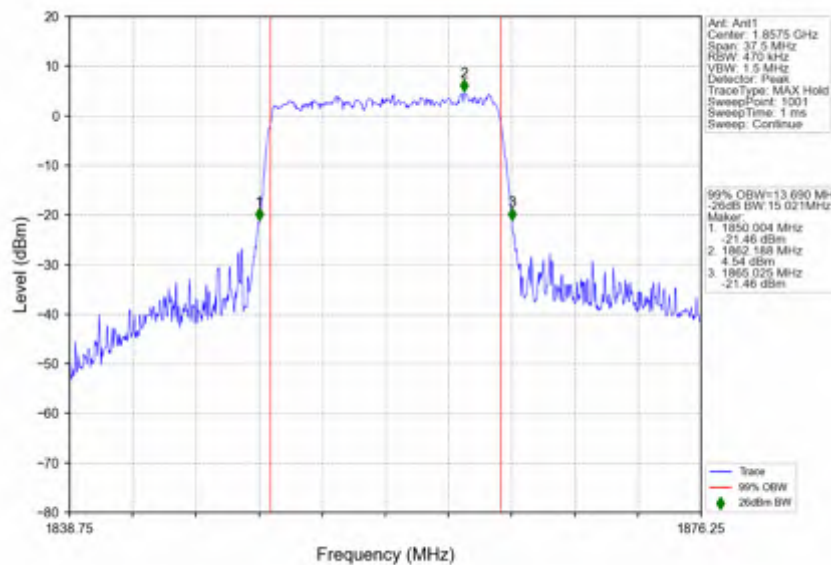
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n2_30kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_1857.5MHz_Outer_Full



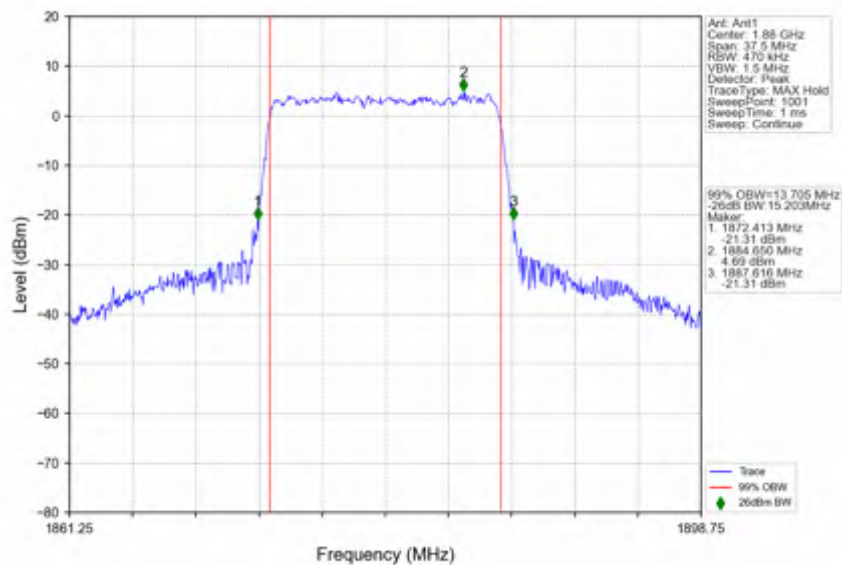
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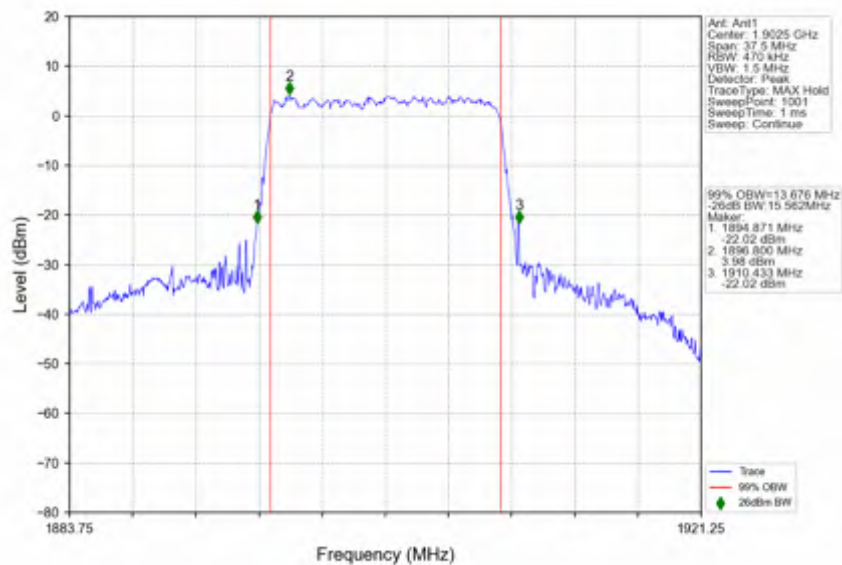
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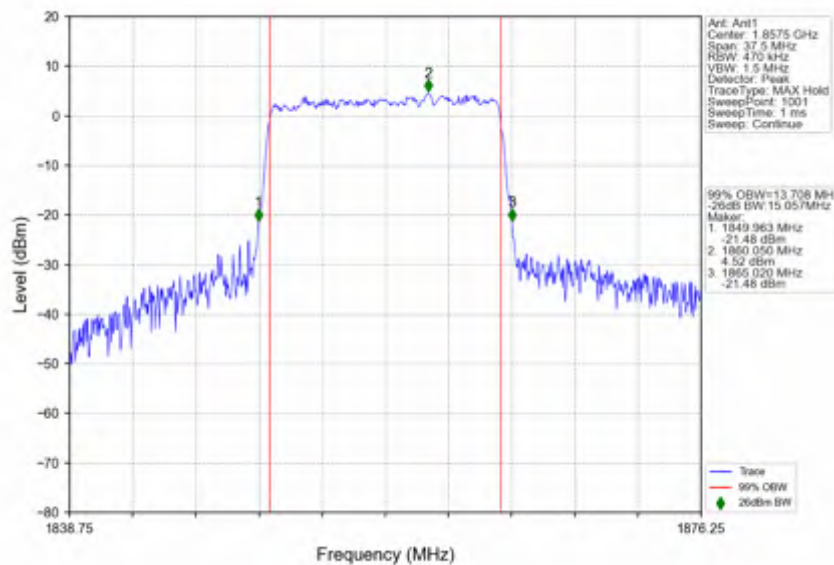


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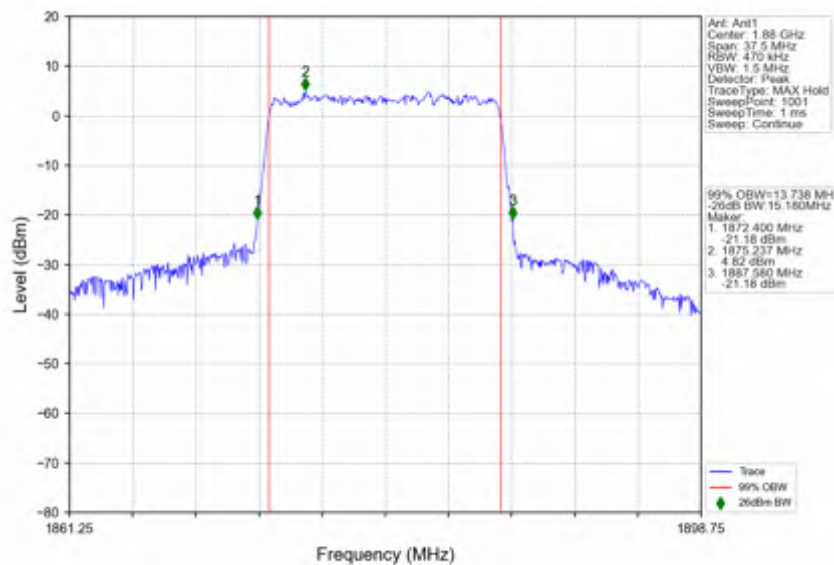
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n2_30kHz_SISO_NTNV_15MHz_CP-OFDM_16_QAM_1880MHz_Outer_Full



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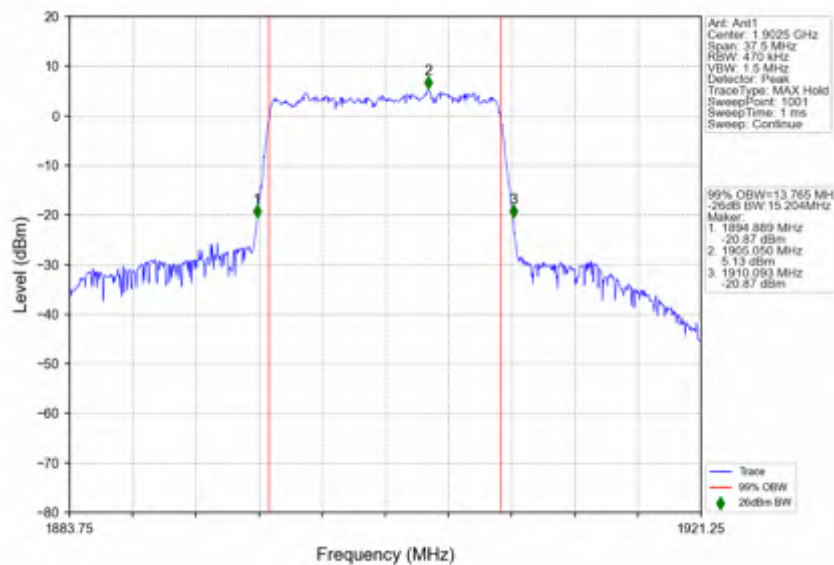
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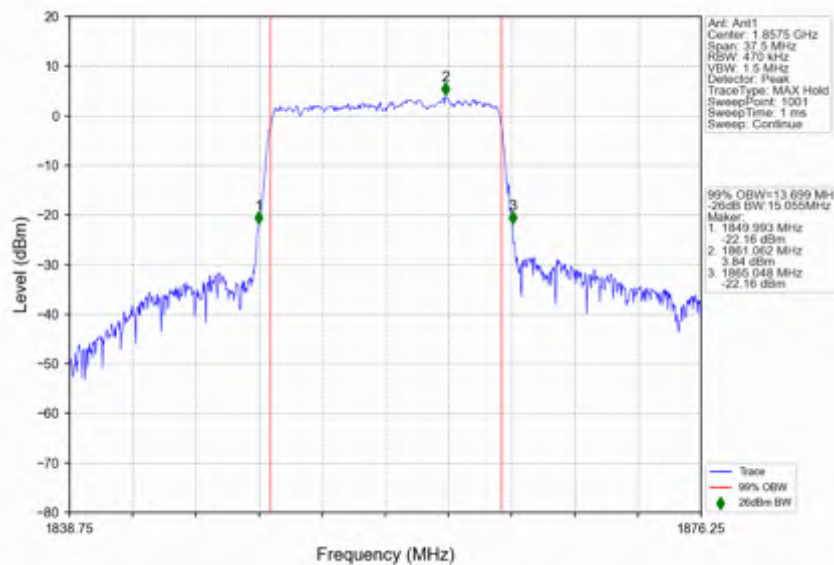
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n2_30kHz_SISO_NTNV_15MHz_CP-OFDM_16 QAM_1902.5MHz_Outer_Full



n2_30kHz_SISO_NTNV_15MHz_CP-OFDM_64 QAM_1857.5MHz_Outer_Full



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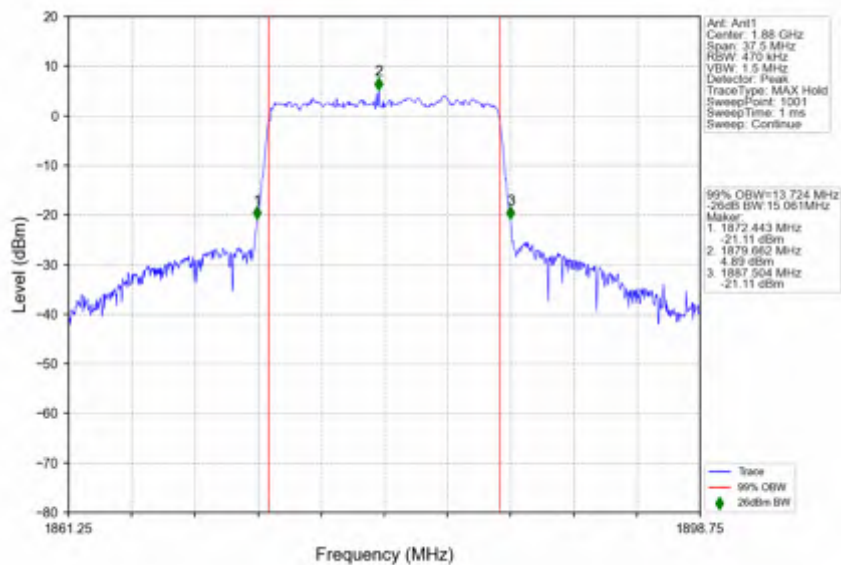
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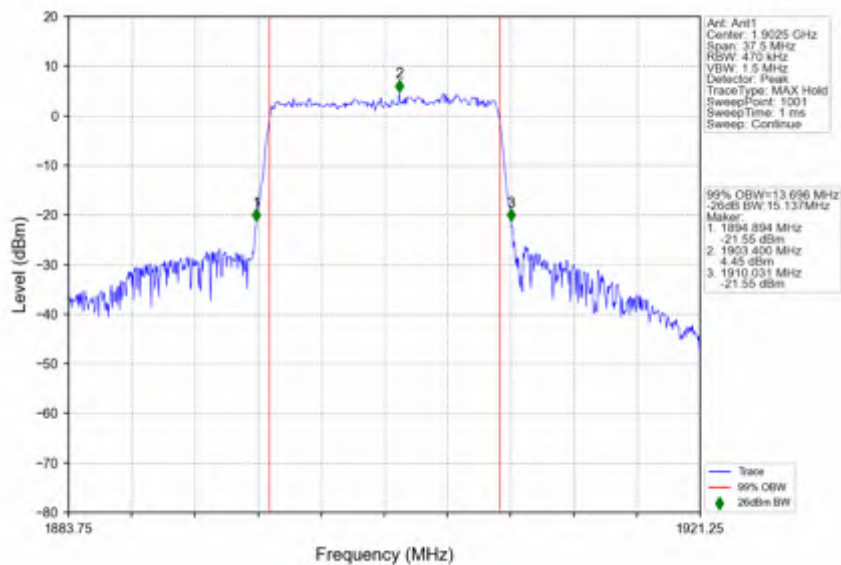
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n2_30kHz_SISO_NTNV_15MHz_CP-OFDM 64 QAM_1880MHz_Outer_Full



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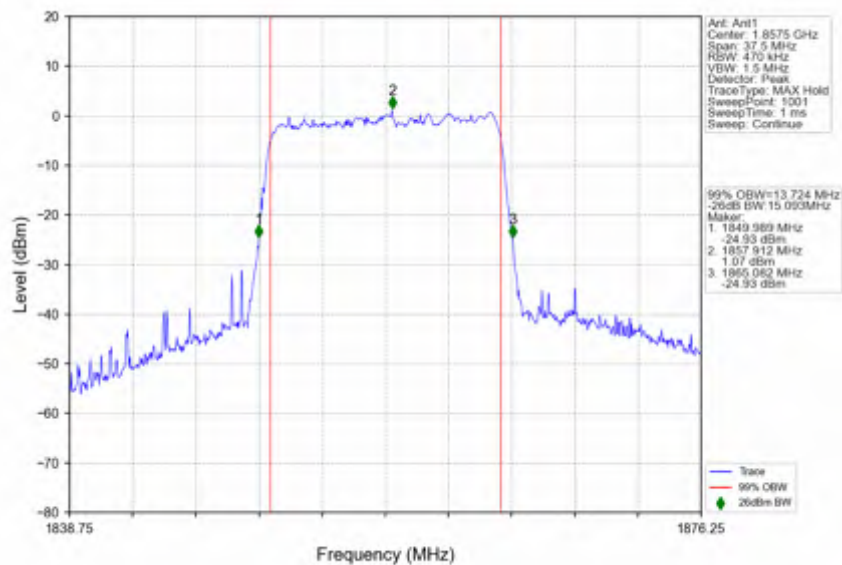
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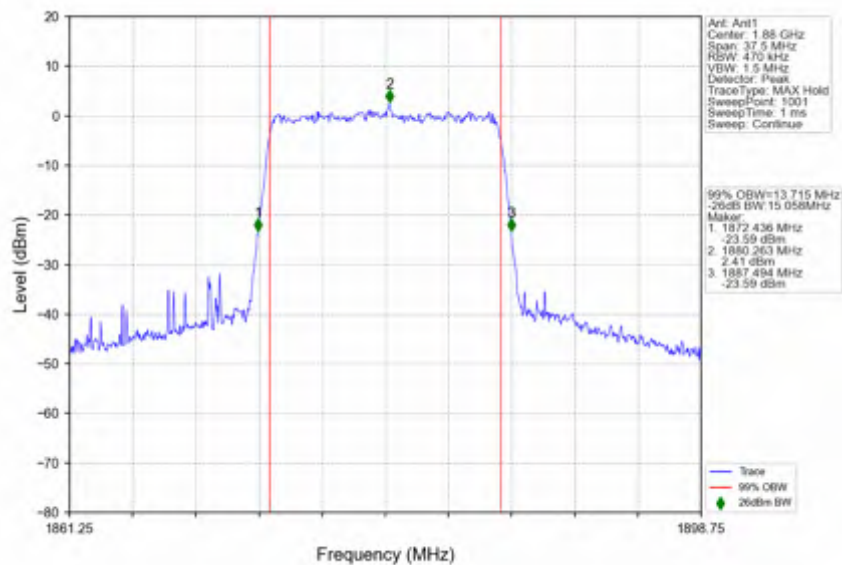
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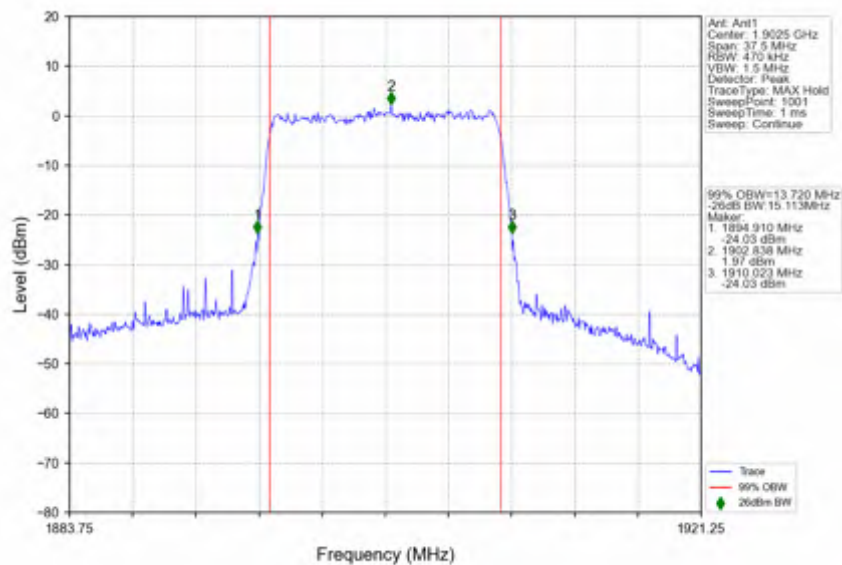


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n2_30kHz_SISO_NTNV_15MHz_CP-OFDM 256 QAM_1902.5MHz_Outer_Full



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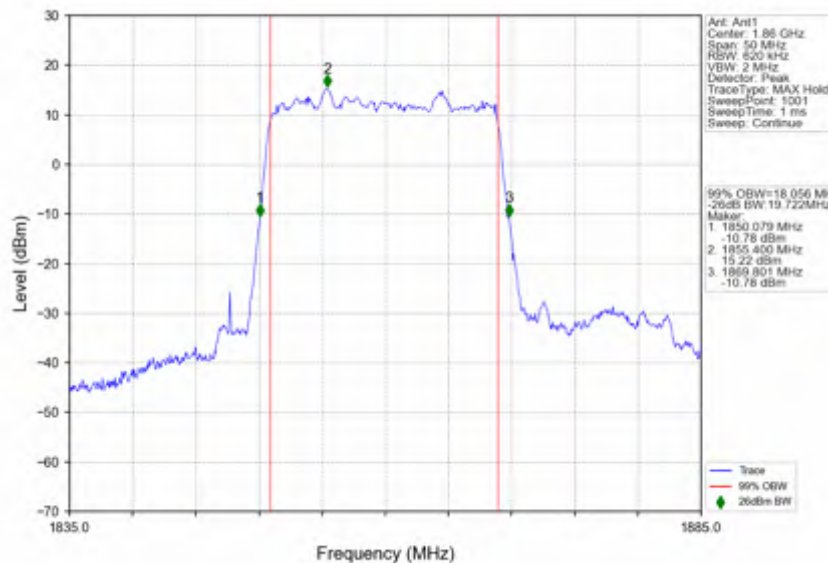
1.7 30k_SISO_20MHz_NTNV

1.7.1 Test Result

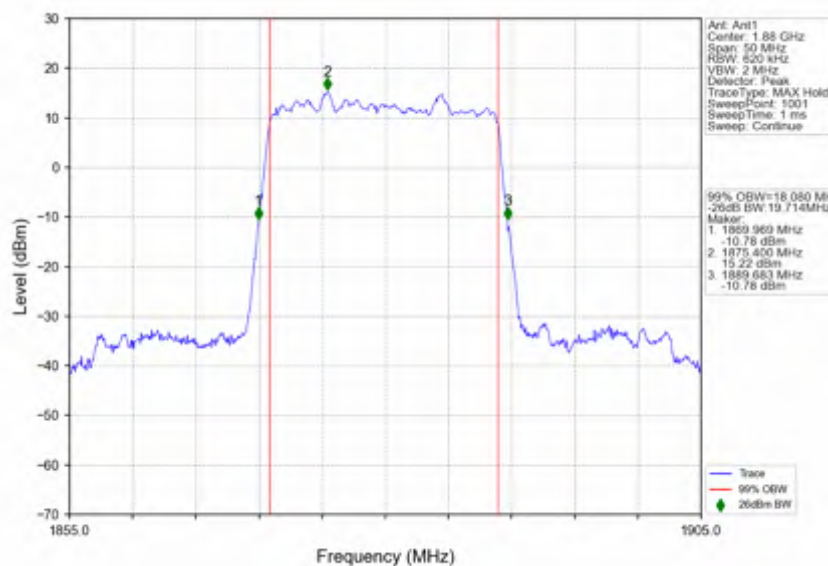
5G NR n2 SCS=30kHz SISO 20MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	1860	Outer_Full	18.06	19.72	/	Pass
	1880	Outer_Full	18.08	19.71	/	Pass
	1900	Outer_Full	18.06	19.81	/	Pass
DFT-s-OFDM QPSK	1860	Outer_Full	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

n2_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_1860MHz_Outer_Full



n2_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_1880MHz_Outer_Full



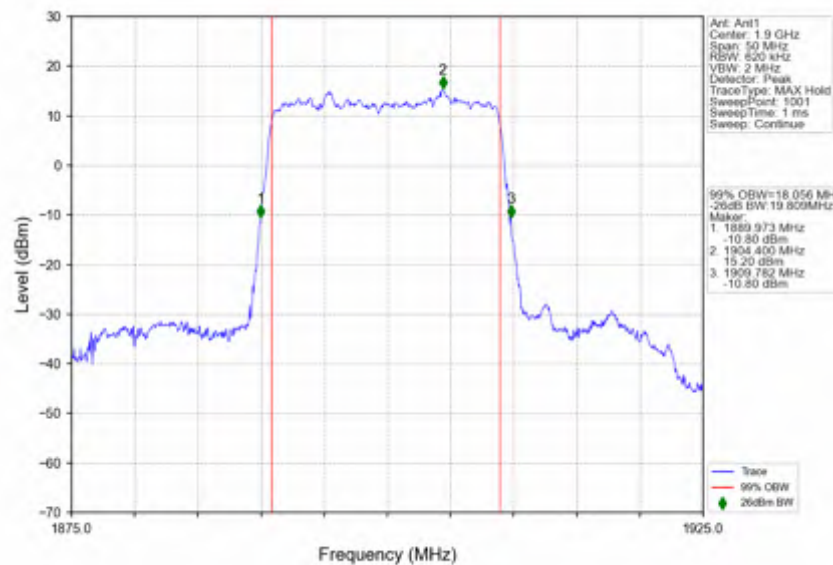
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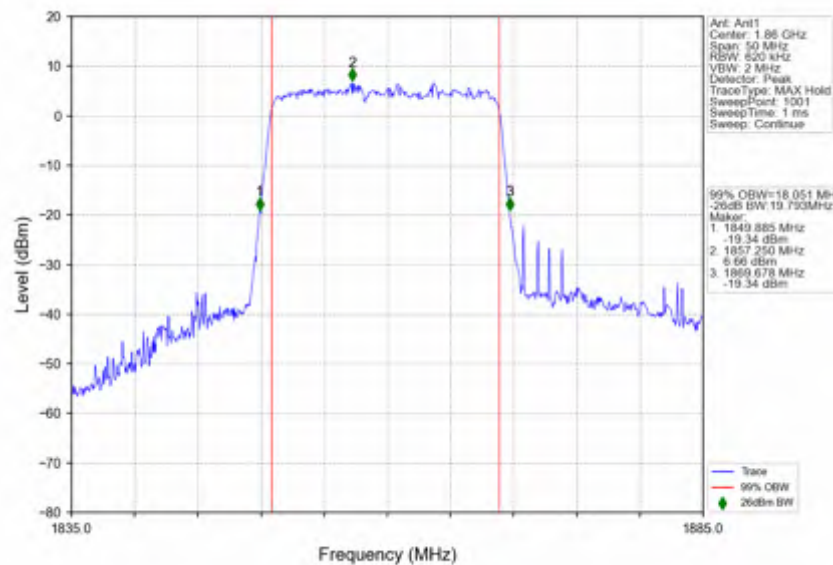
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n2_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_1900MHz_Outer_Full



n2_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_1860MHz_Outer_Full



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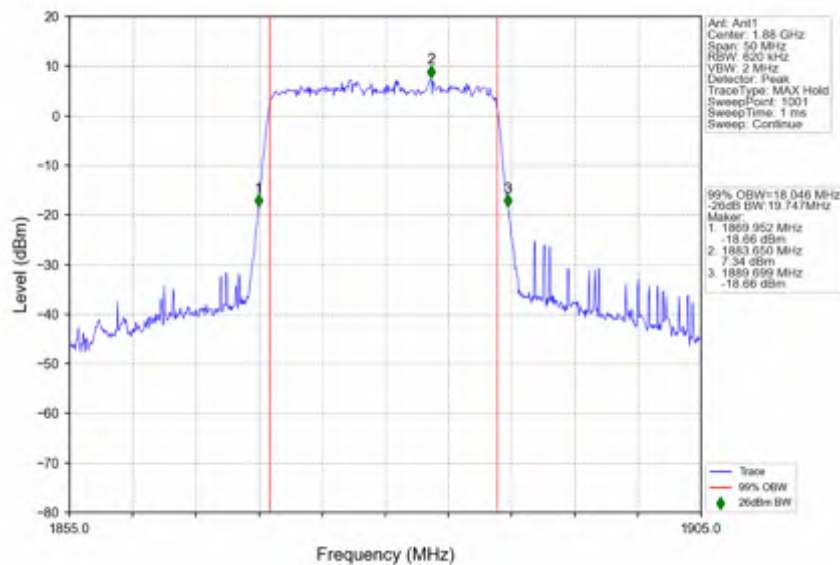
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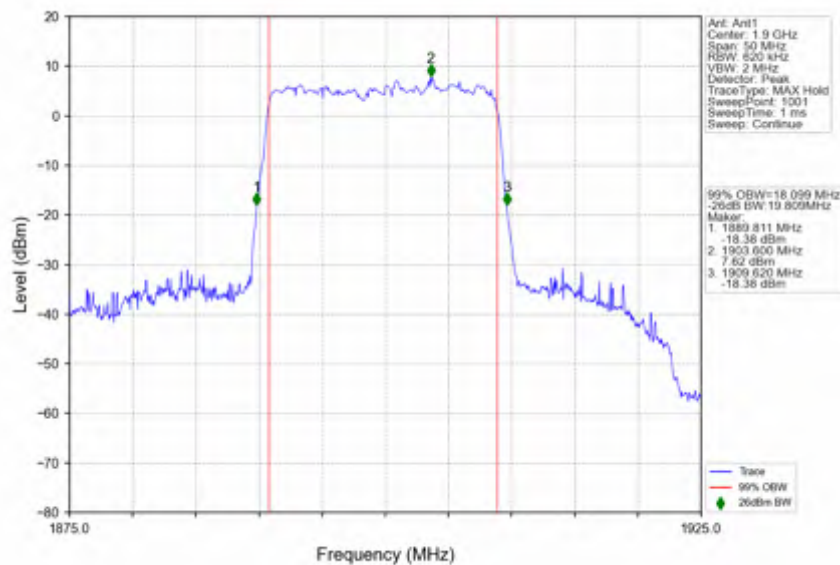
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n2 30kHz SISO NTNV 20MHz DFT-s-OFDM QPSK 1900MHz Outer Full

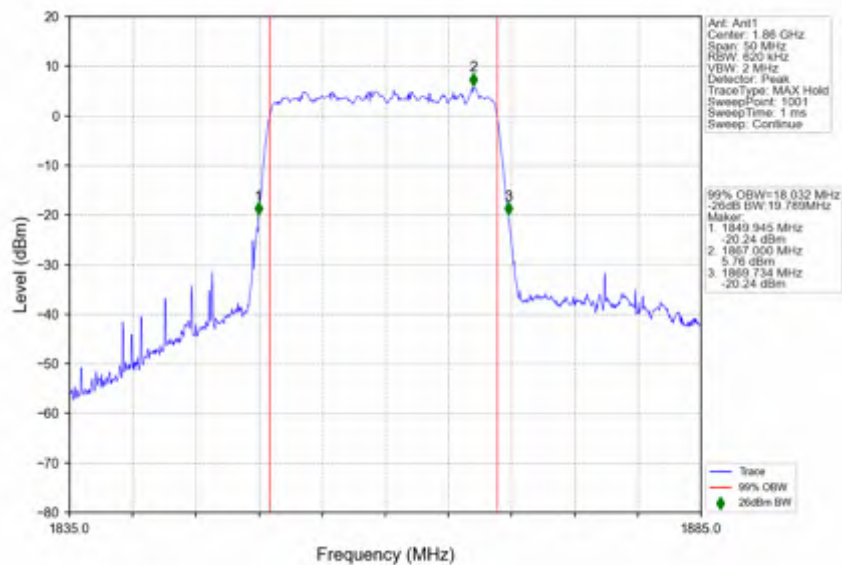


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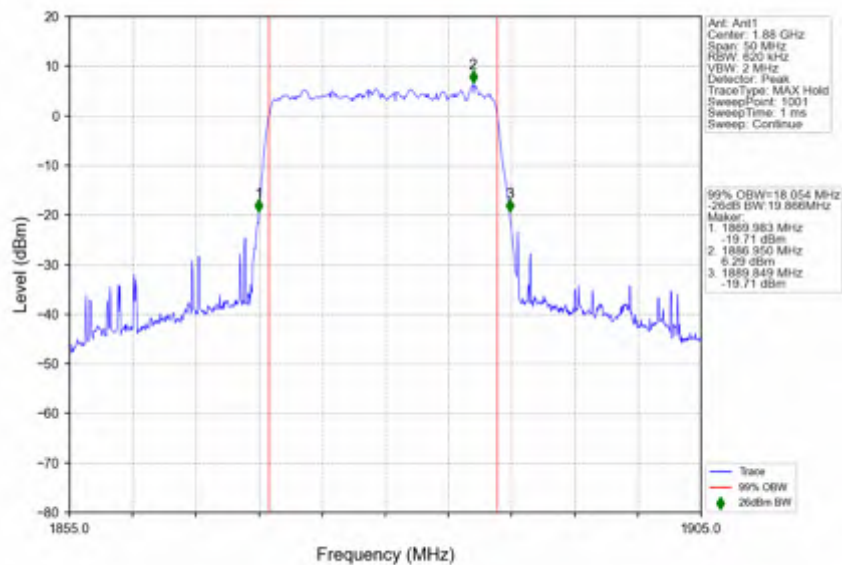
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n2 30kHz SISO NTNv 20MHz DFT-s-OFDM 16 QAM 1860MHz Outer Full



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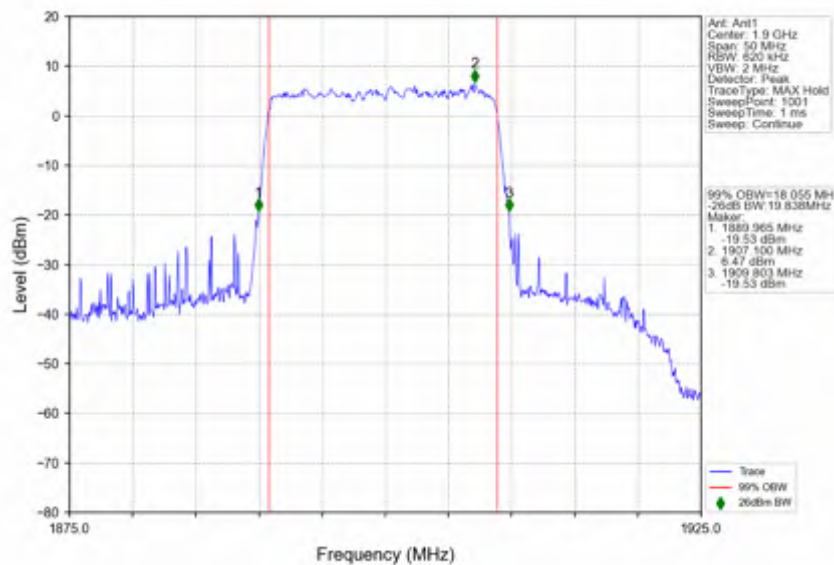


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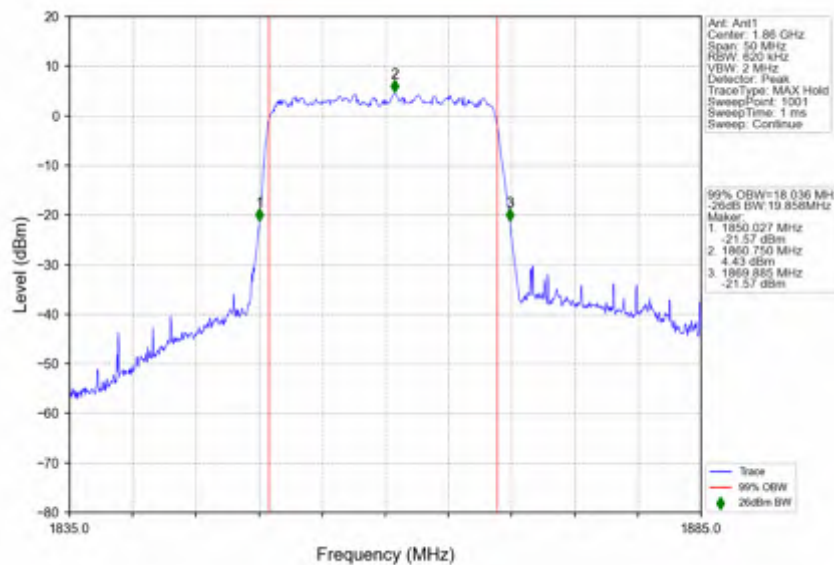
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n2 30kHz SISO NTNv 20MHz DFT-s-OFDM 16 QAM 1900MHz Outer Full



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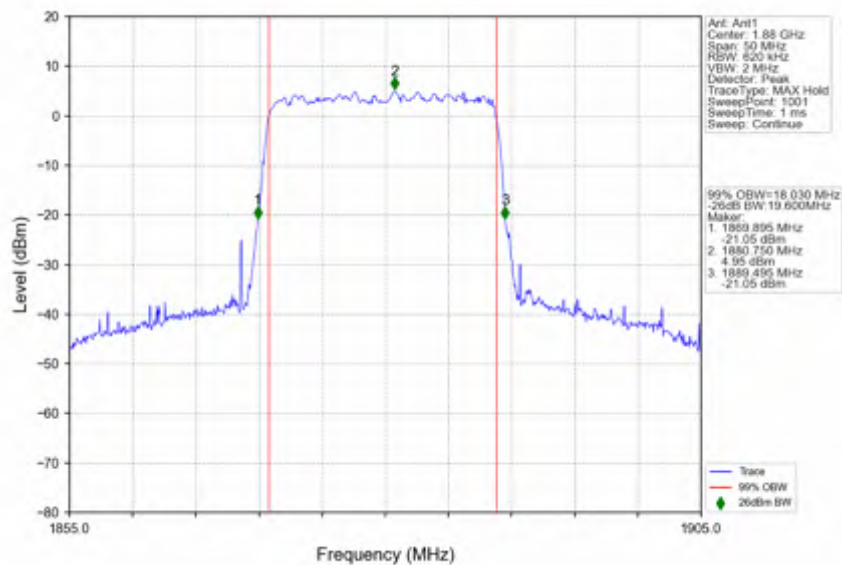


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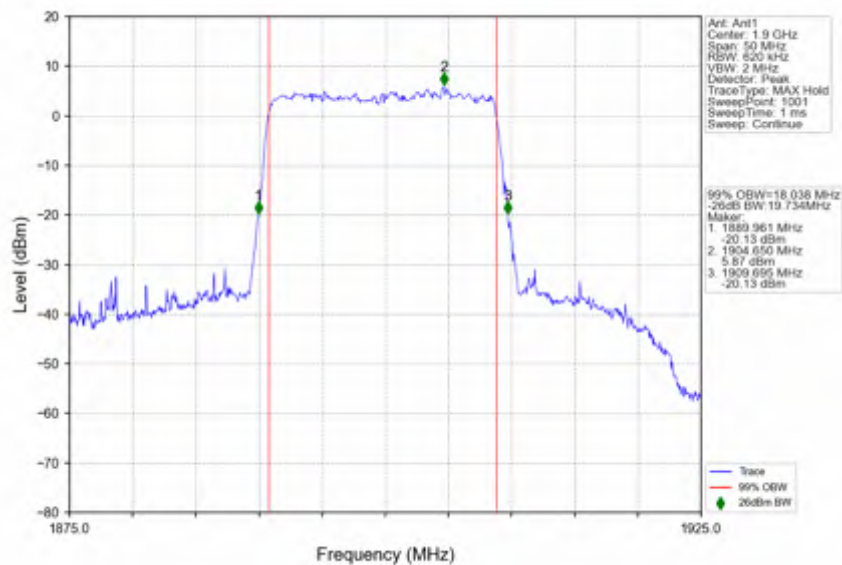
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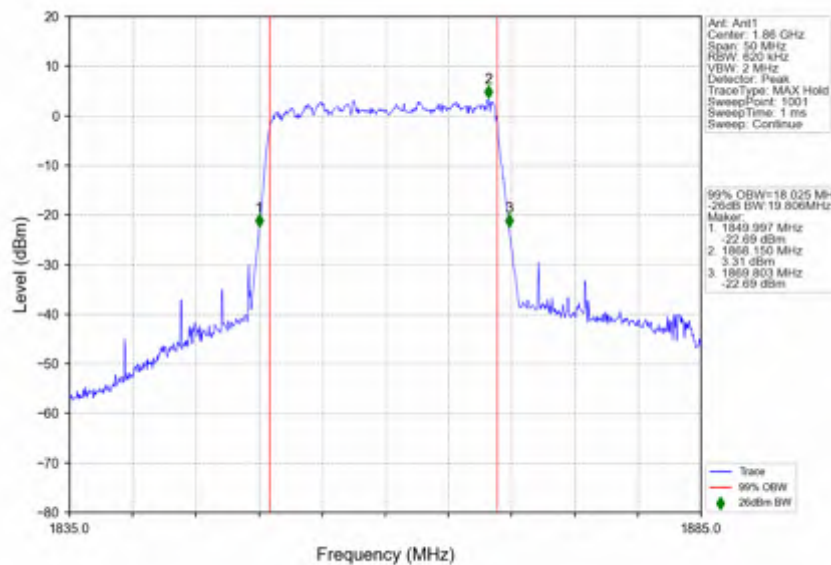
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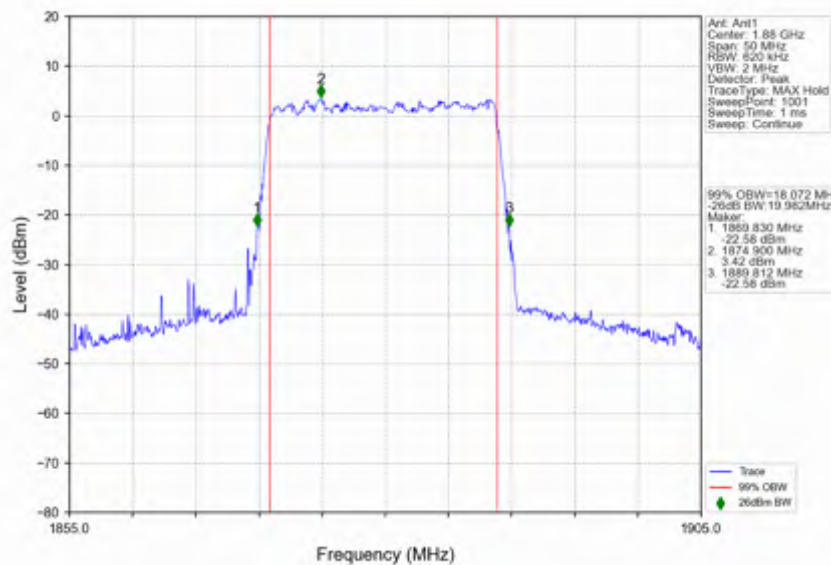
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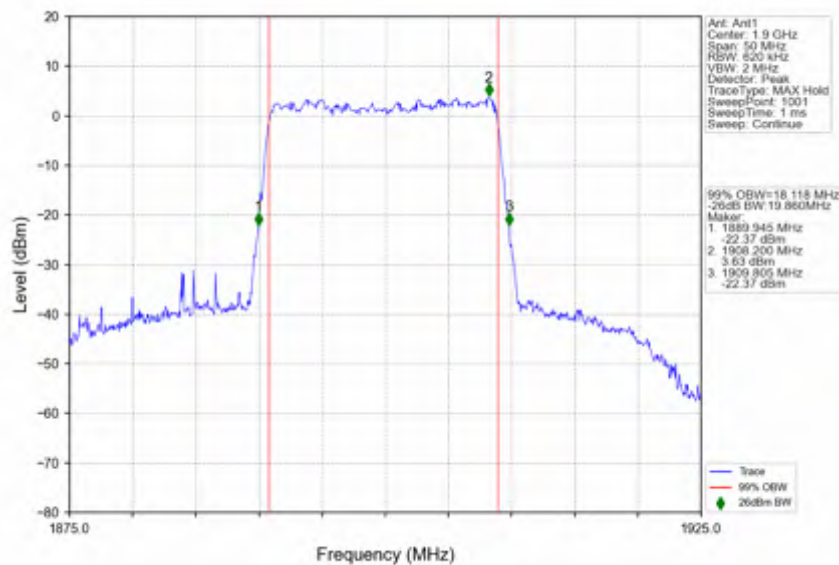
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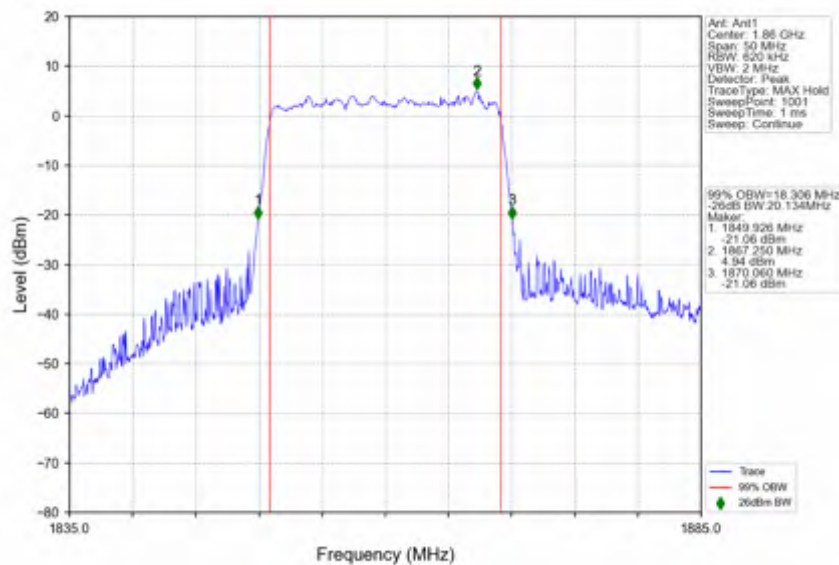
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n2 30kHz SISO NTV 20MHz DFT-s-OFDM 256 QAM 1900MHz Outer Full



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

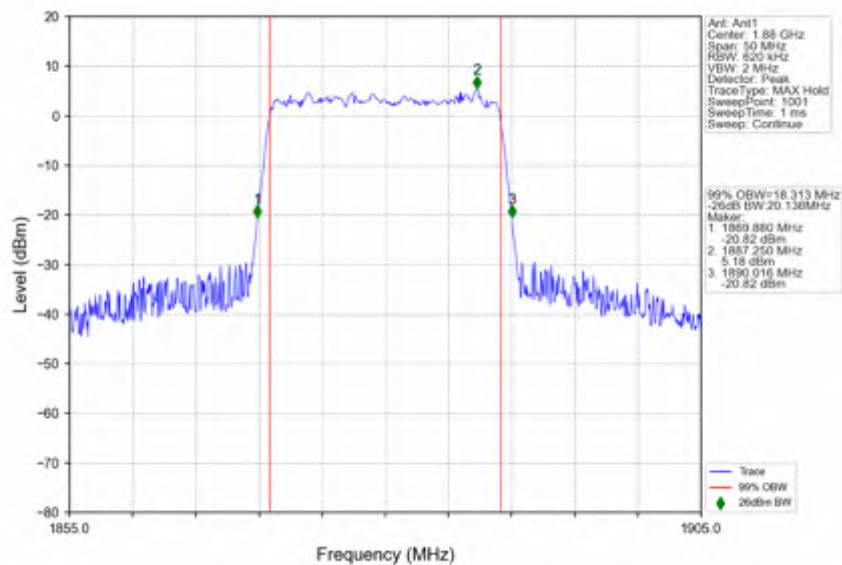


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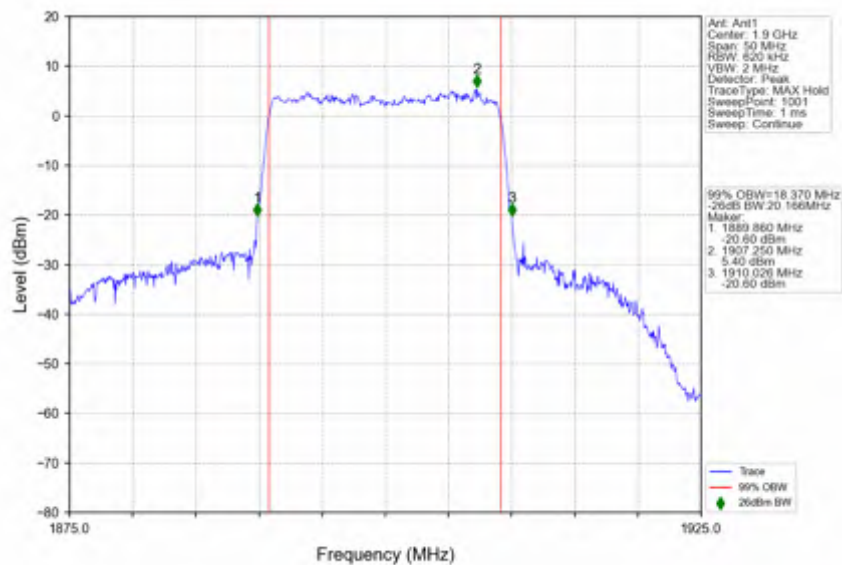
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n2_30kHz_SISO_NTV_20MHz_CP-OFDM_QPSK_1880MHz_Outer_Full



n2	30kHz	SISO	NTNV	20MHz	CP-OFDM	QPSK	1900MHz	Outer	Full
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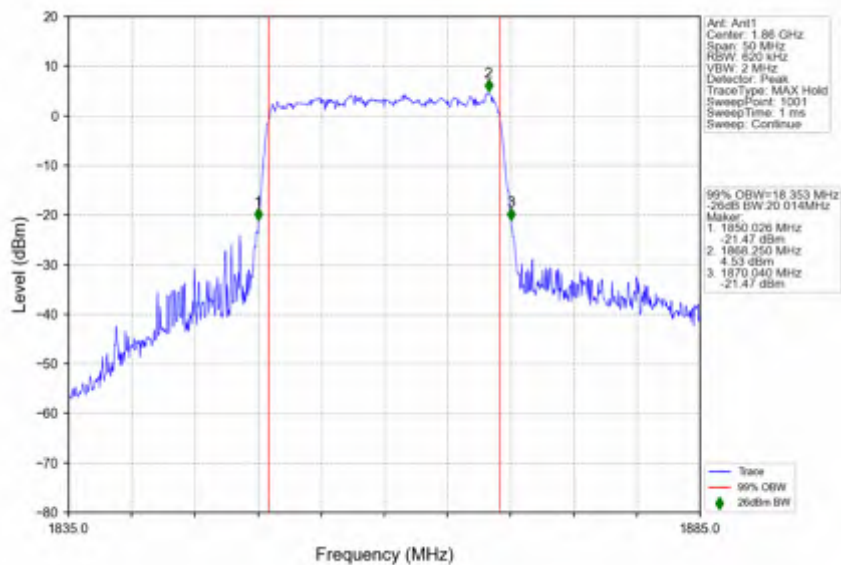


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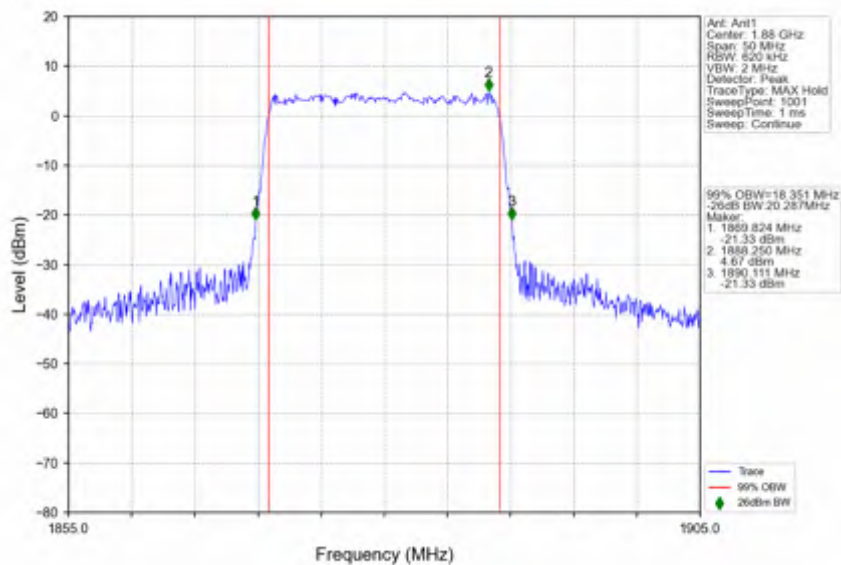
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n2_30kHz_SISO_NTNV_20MHz_CP-OFDM_16_QAM_1860MHz_Outer_Full



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

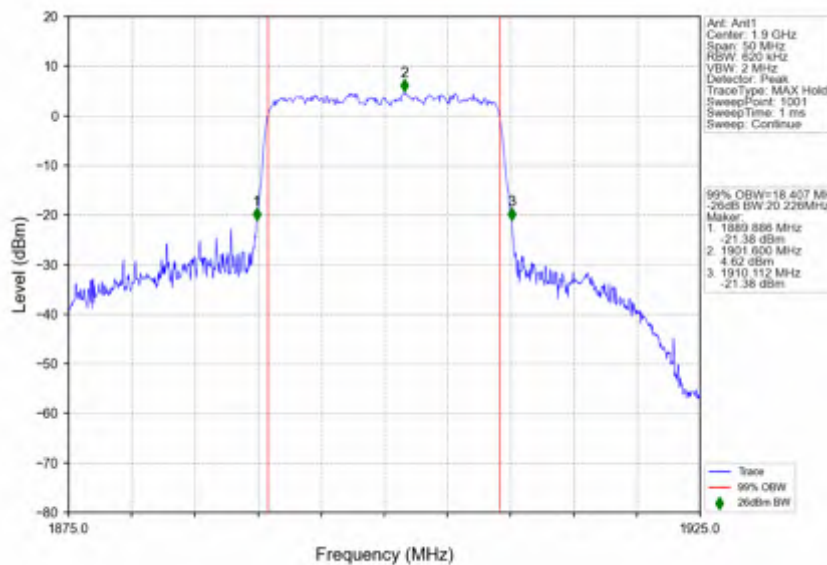


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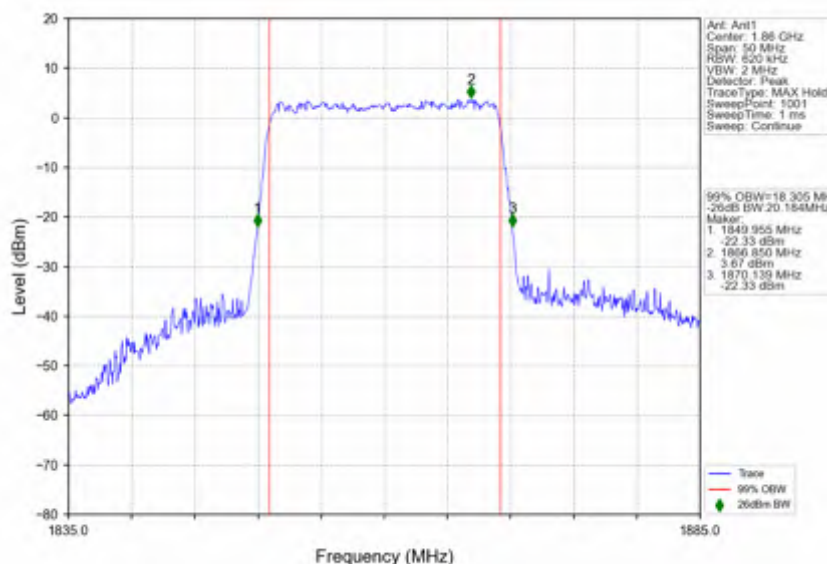
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n2_30kHz_SISO_NTNV_20MHz_CP-OFDM 16 QAM_1900MHz_Outer_Full



n2_30kHz_SISO_NTNV_20MHz_CP-OFDM 64 QAM_1860MHz_Outer_Full



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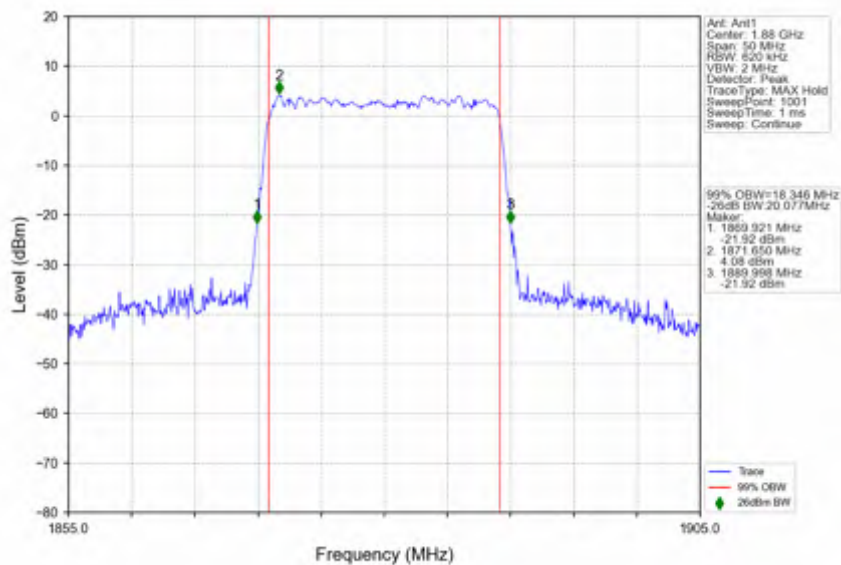
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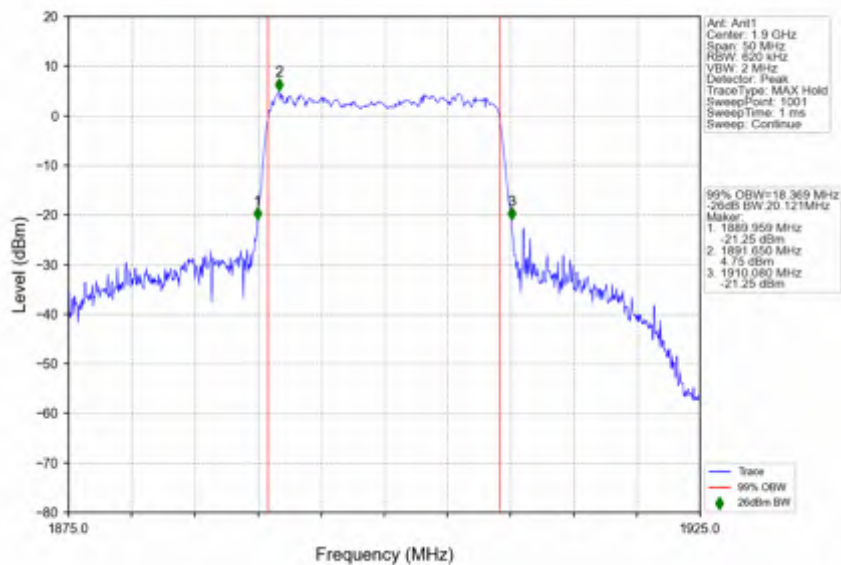
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n2_30kHz_SISO_NTNV_20MHz_CP-OFDM 64 QAM_1880MHz_Outer_Full



n2_30kHz_SISO_NTNV_20MHz_CP-OFDM 64 QAM_1900MHz_Outer_Full



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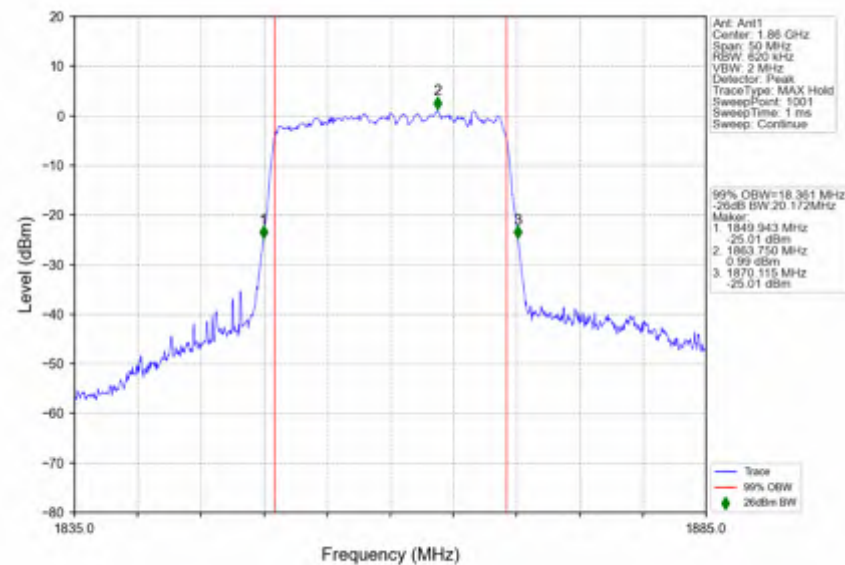
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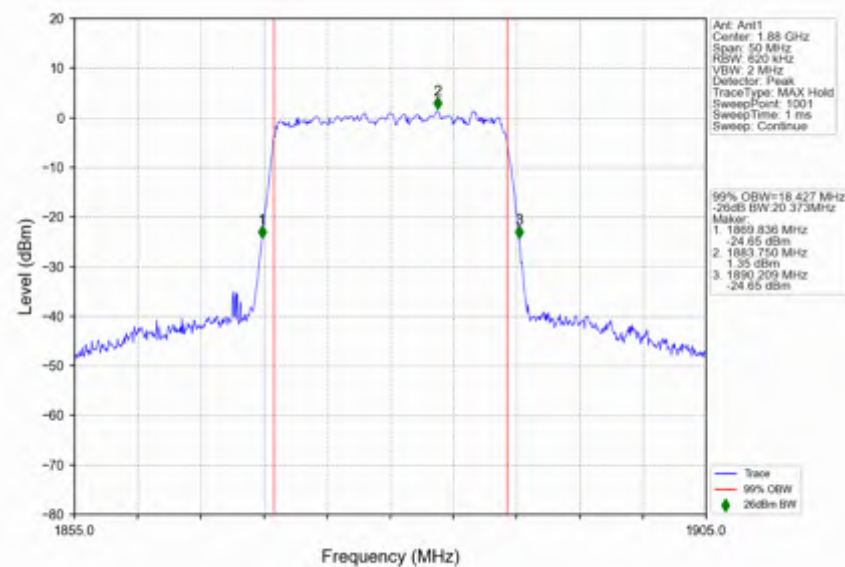
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n2 30kHz SISO NTV 20MHz CP-OFDM 256 QAM 1880MHz Outer Full

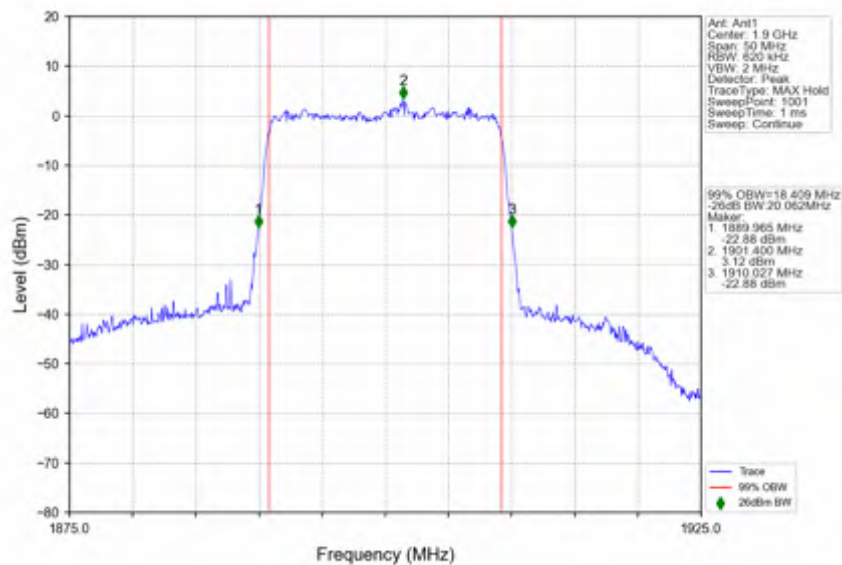


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n2_30kHz_SISO_NTNV_20MHz_CP-OFDM_256_QAM_1900MHz_Outer_Full



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2. 99% & 26dB Bandwidth

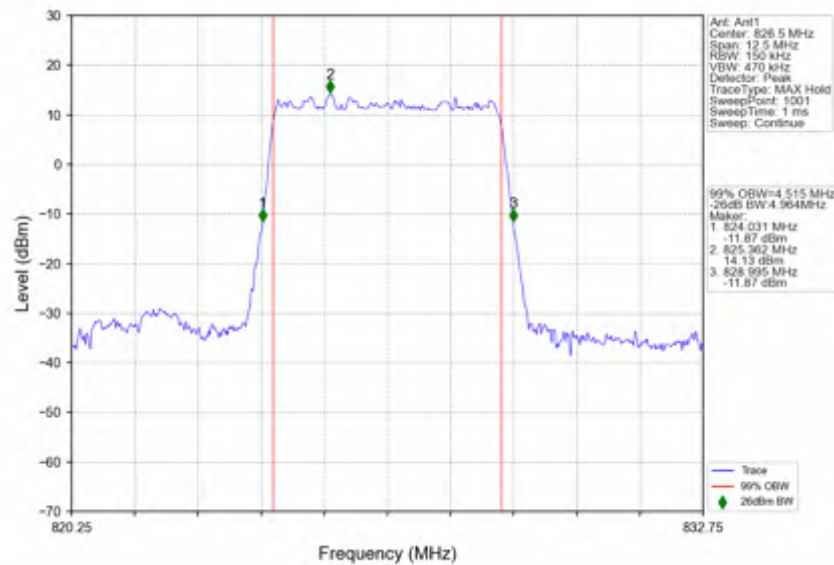
2.1 n5 15k_SISO_5MHz_NTNV

2.1.1 Test Result

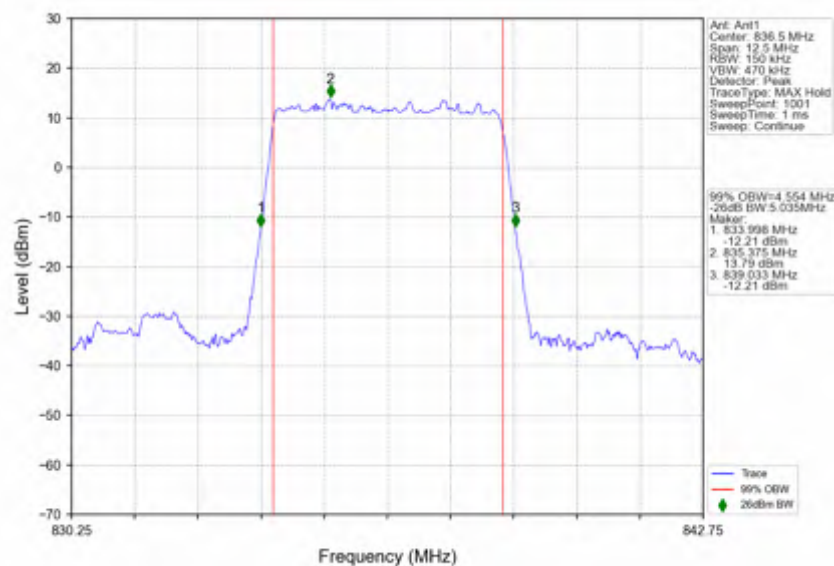
5G NR n5 SCS=15kHz SISO 5MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	826.5	Outer_Full	4.51	4.96	/	Pass
	836.5	Outer_Full	4.55	5.04	/	Pass
	846.5	Outer_Full	4.54	5.04	/	Pass
DFT-s-OFDM QPSK	826.5	Outer_Full	4.51	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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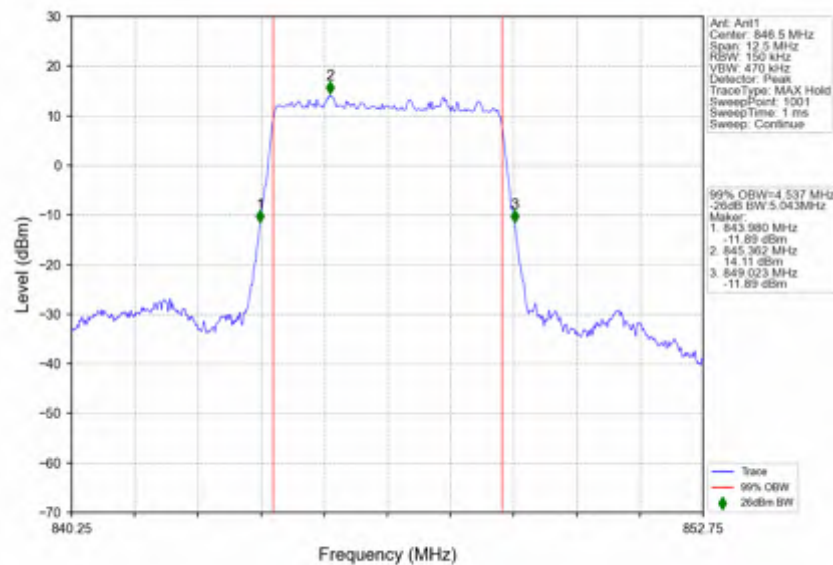
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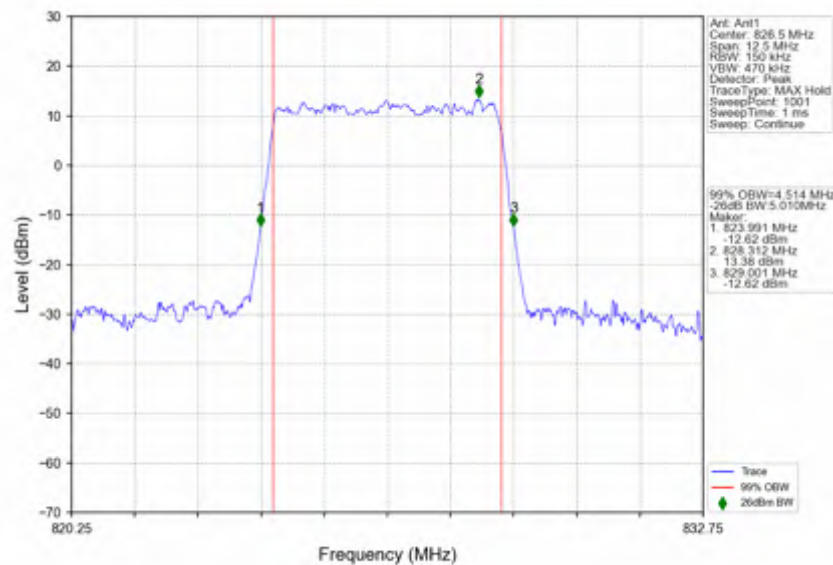
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n5_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_846.5MHz_Outer_Full



n5_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_826.5MHz_Outer_Full



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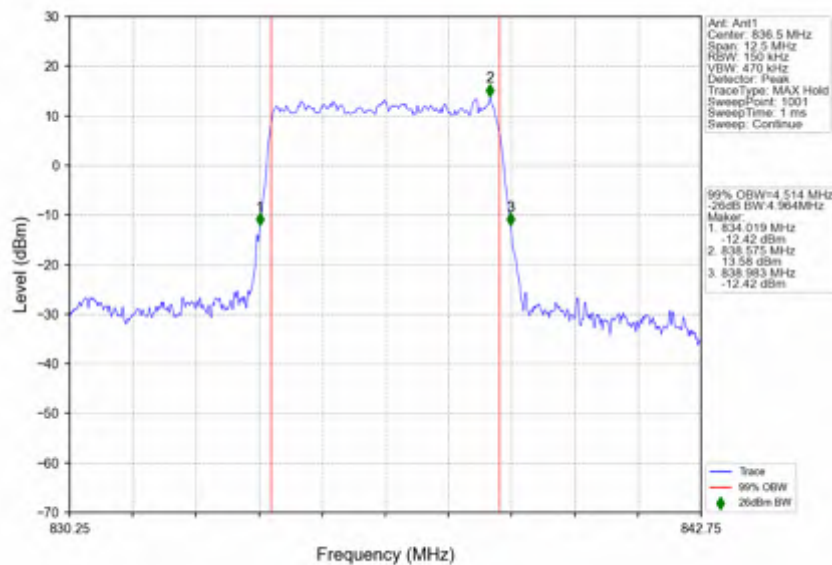
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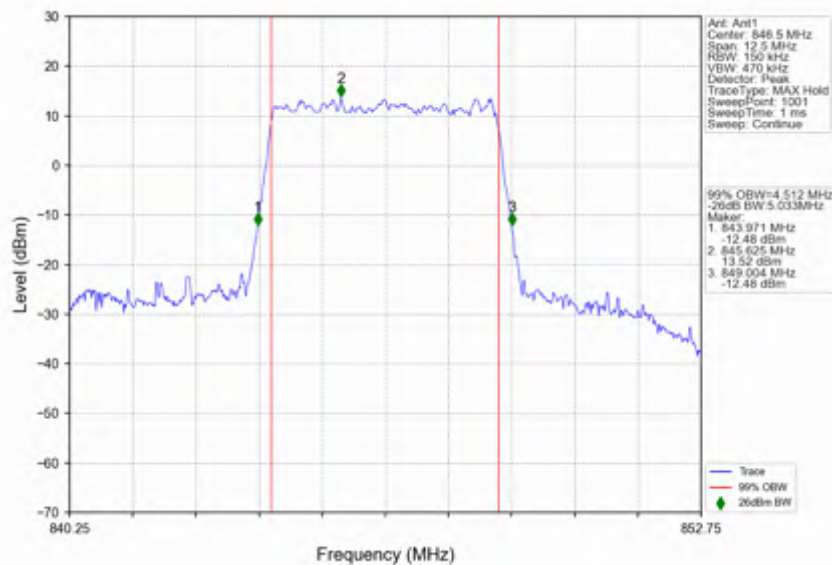
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n5_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_836.5MHz_Outer_Full



n5_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_846.5MHz_Outer_Full



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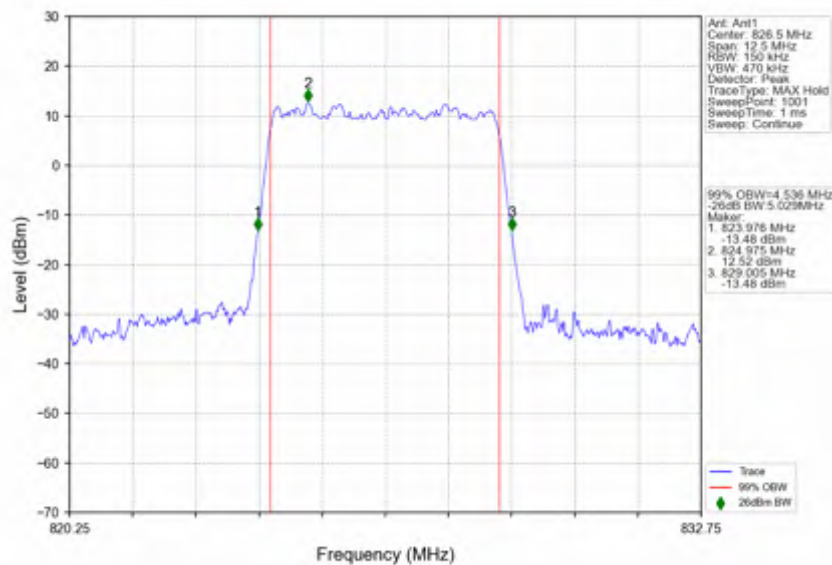
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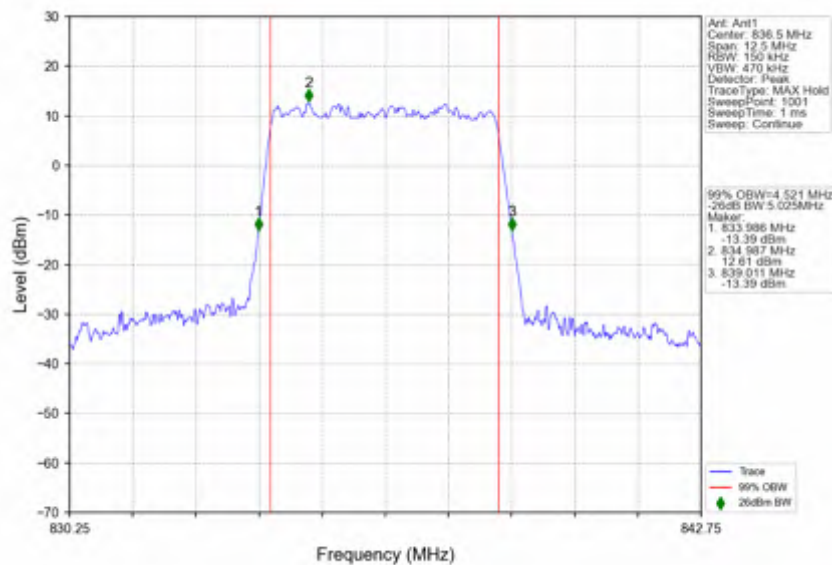
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n5_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_16_QAM_826.5MHz_Outer_Full



n5_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_16_QAM_836.5MHz_Outer_Full



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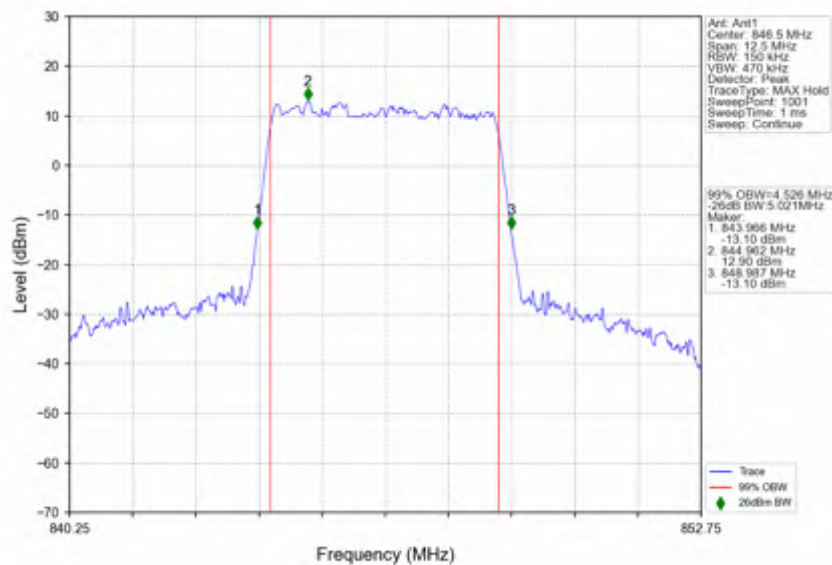
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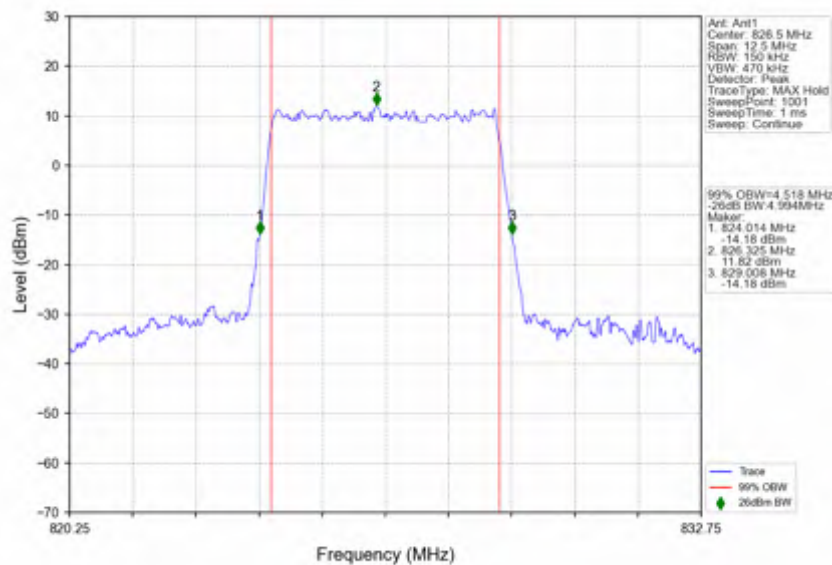
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n5_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_16_QAM_846.5MHz_Outer_Full



n5_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_64_QAM_826.5MHz_Outer_Full



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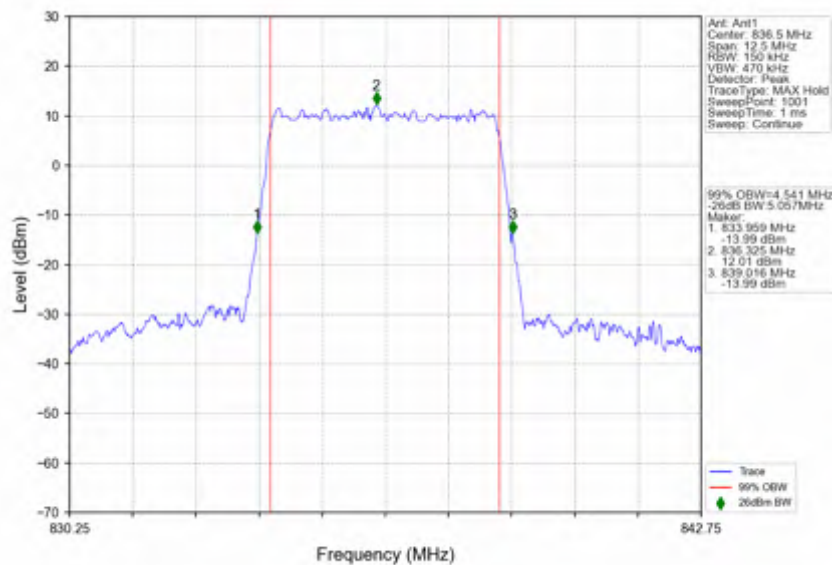
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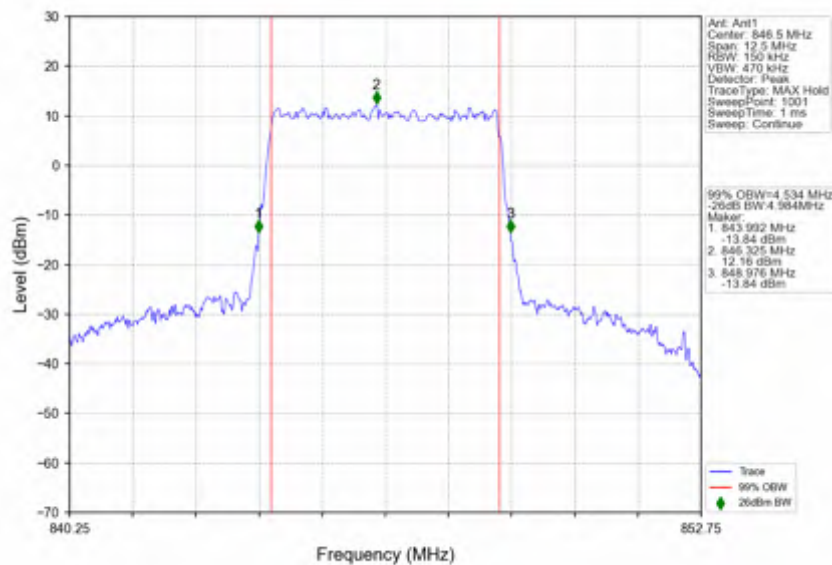
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n5_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_64_QAM_836.5MHz_Outer_Full



n5_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_64_QAM_846.5MHz_Outer_Full



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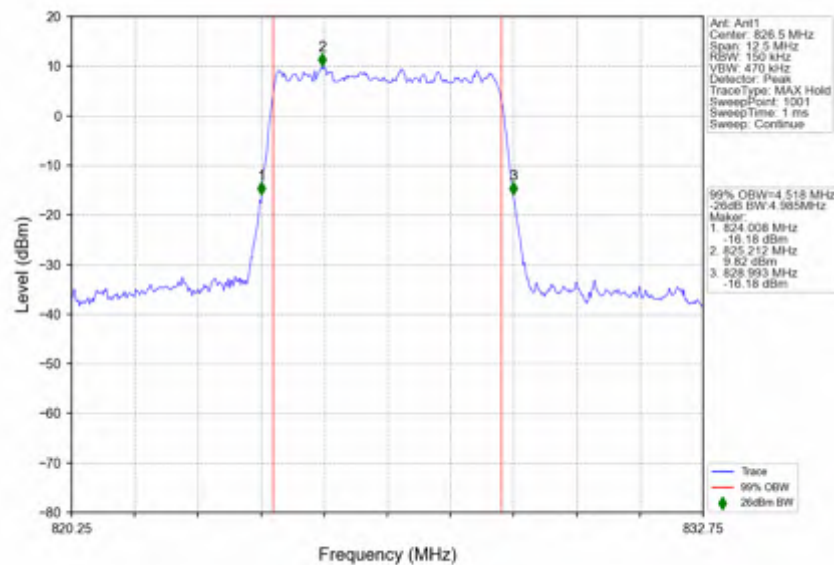
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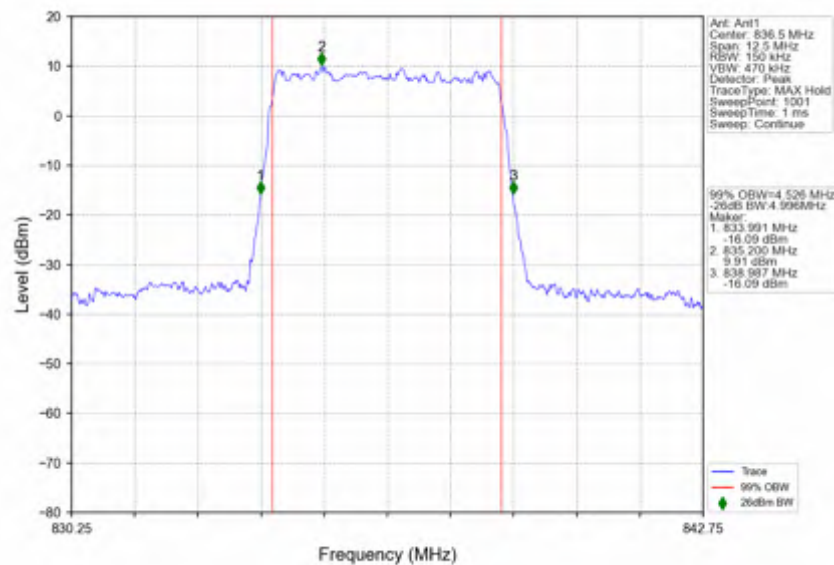
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n5_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_256_QAM_826.5MHz_Outer_Full



n5_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_256_QAM_836.5MHz_Outer_Full



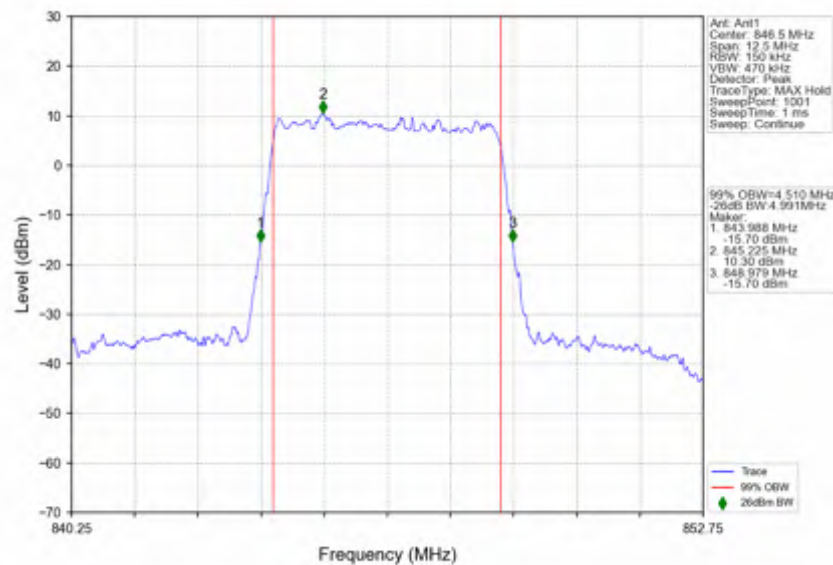
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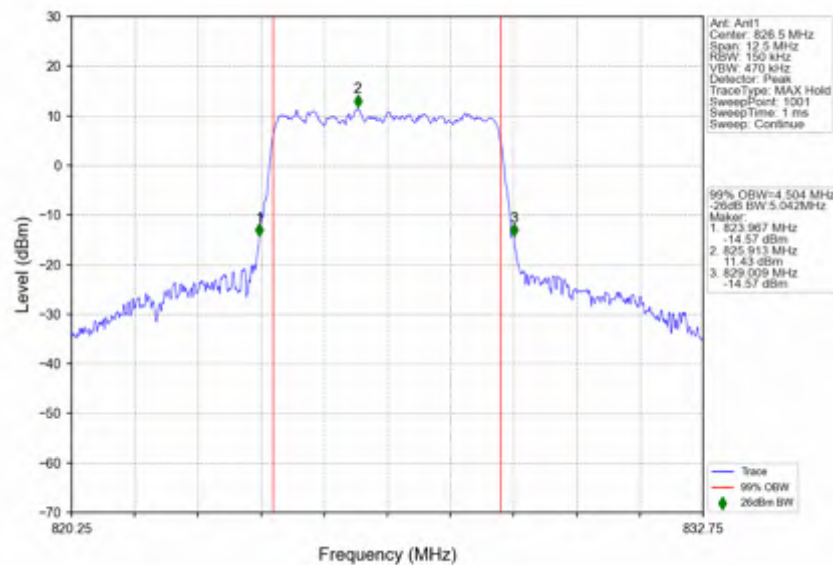
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n5_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM 256 QAM_846.5MHz_Outer_Full



n5_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_826.5MHz_Outer_Full



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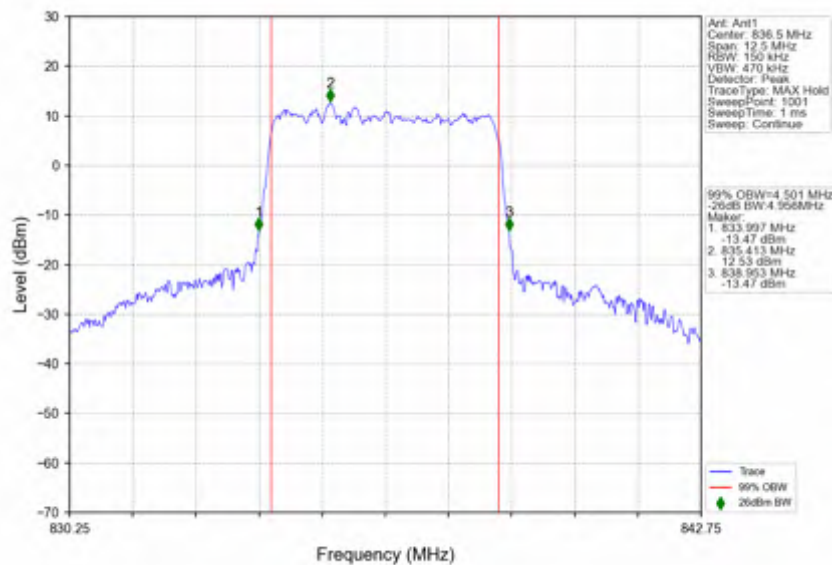
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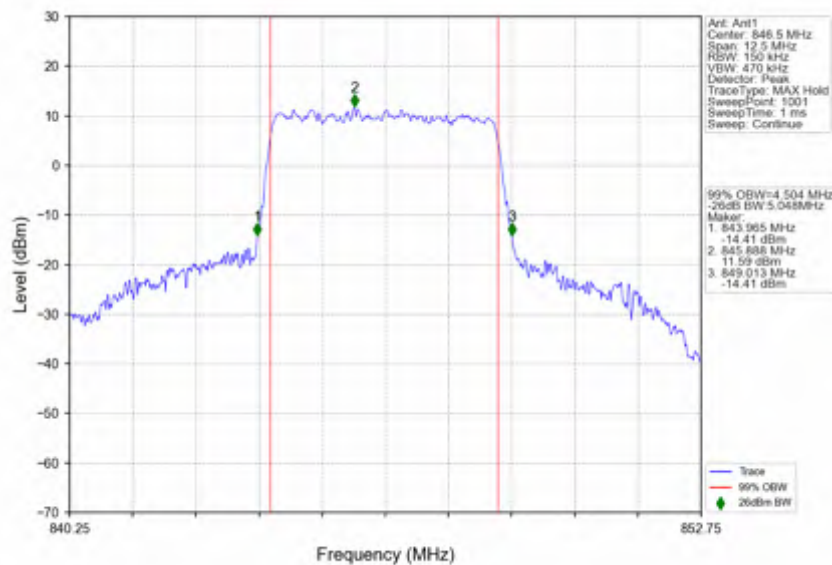
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n5_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_836.5MHz_Outer_Full



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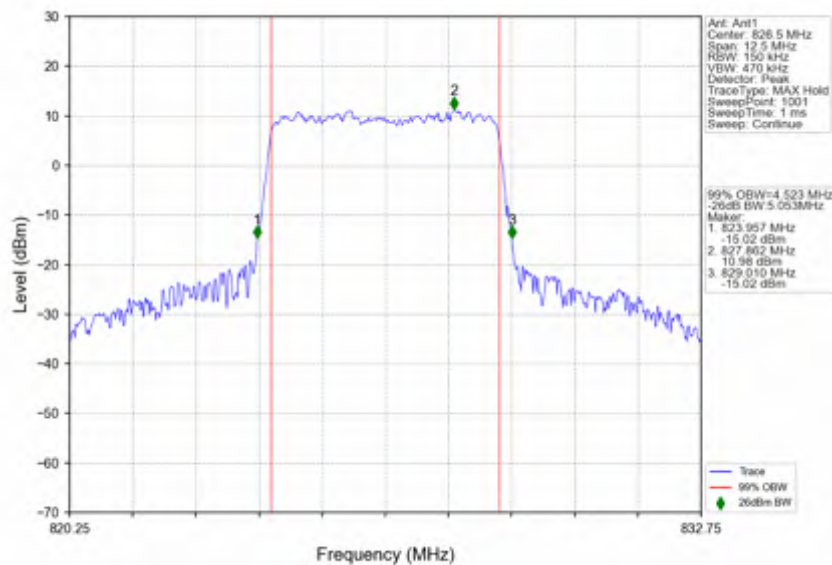
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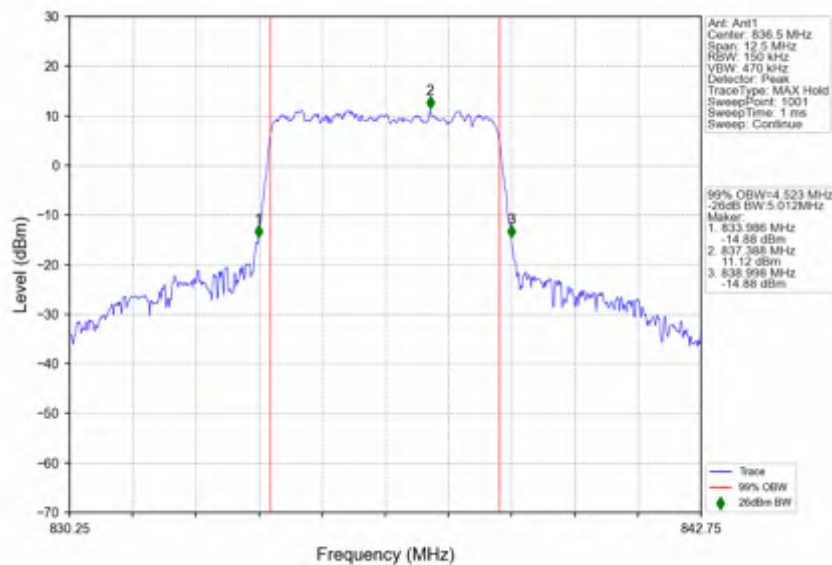
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n5_15kHz_SISO_NTNV_5MHz_CP-OFDM_16_QAM_826.5MHz_Outer_Full



n5_15kHz_SISO_NTNV_5MHz_CP-OFDM_16_QAM_836.5MHz_Outer_Full



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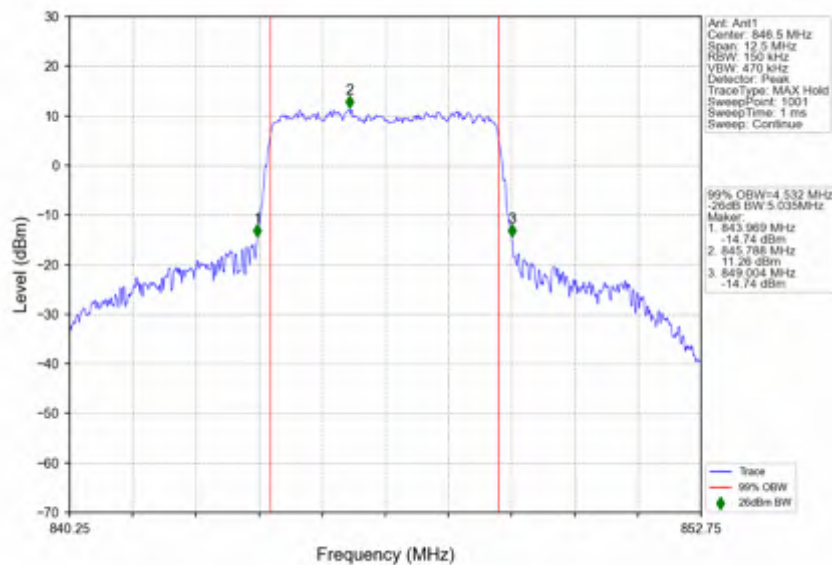
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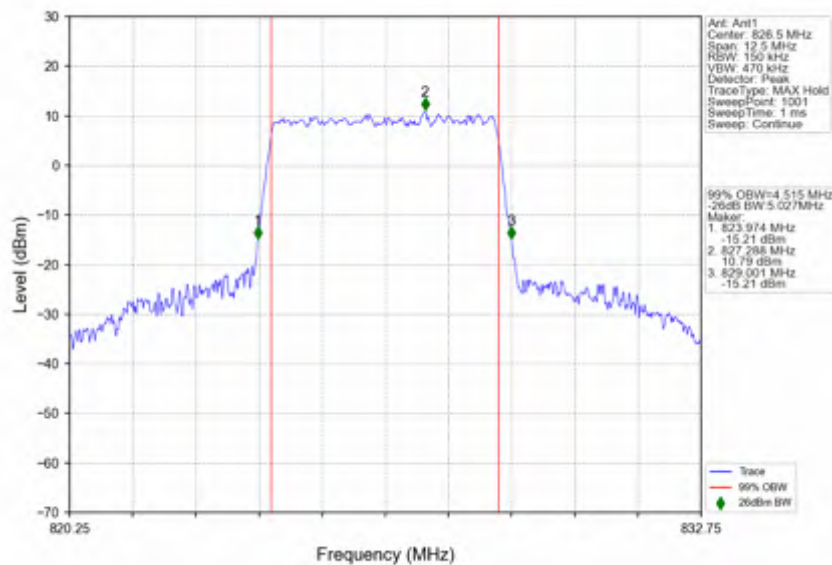
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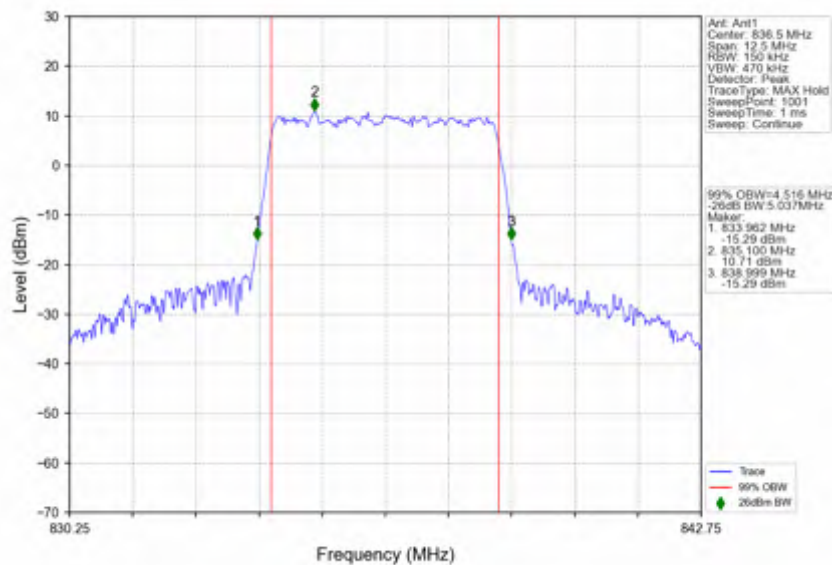
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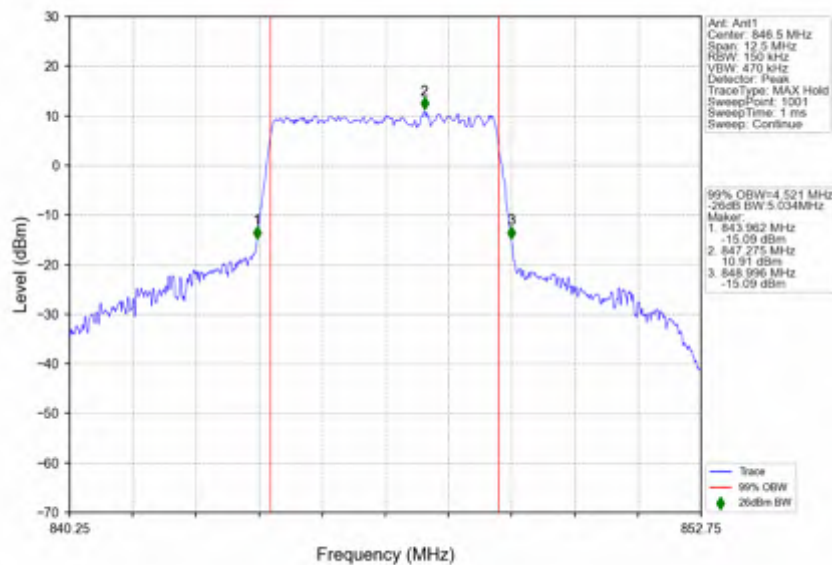
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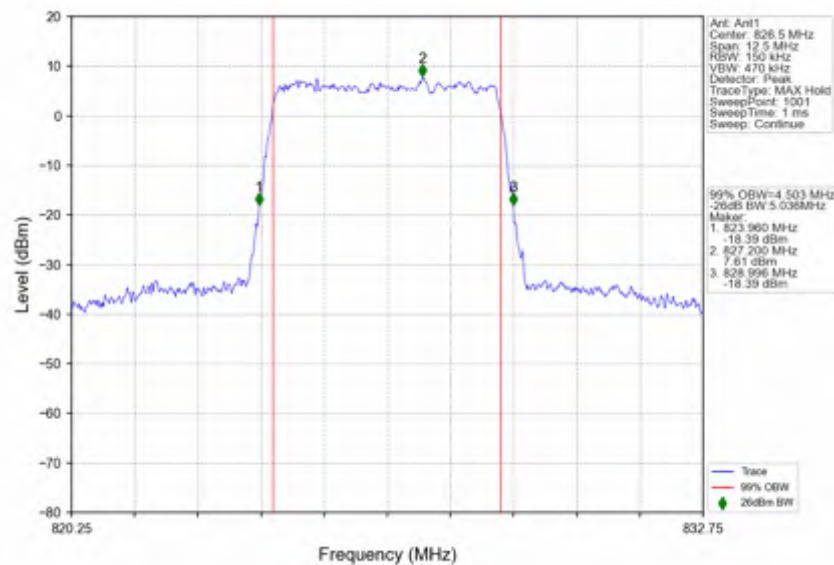
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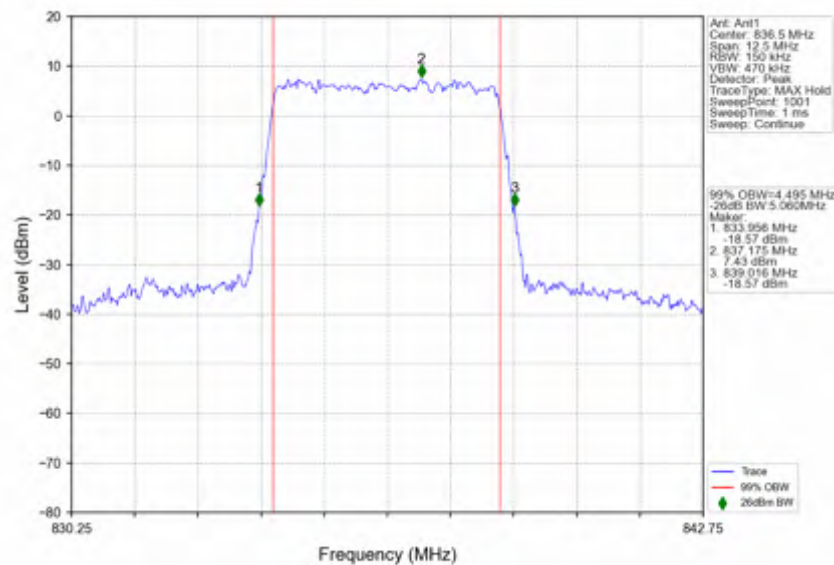
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n5_15kHz_SISO_NTNV_5MHz_CP-OFDM 256 QAM 826.5MHz_Outer_Full



n5_15kHz_SISO_NTNV_5MHz_CP-OFDM 256 QAM 836.5MHz_Outer_Full



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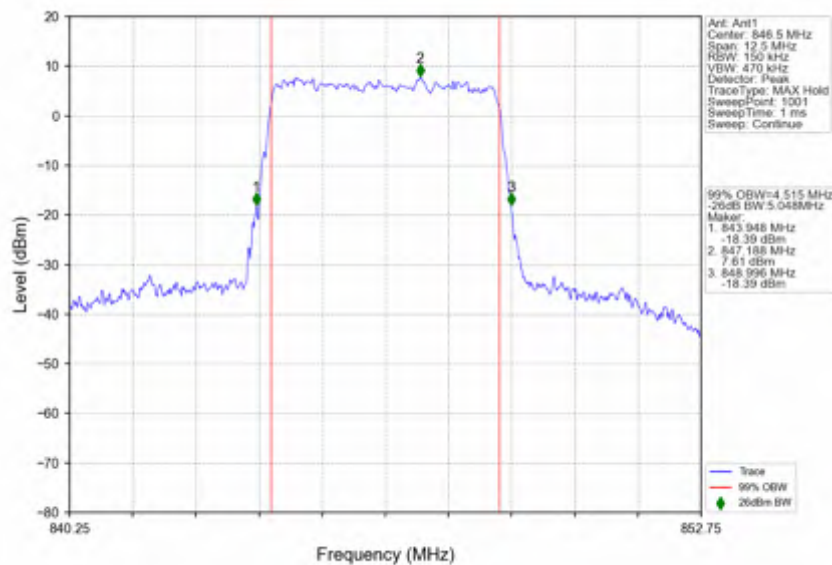
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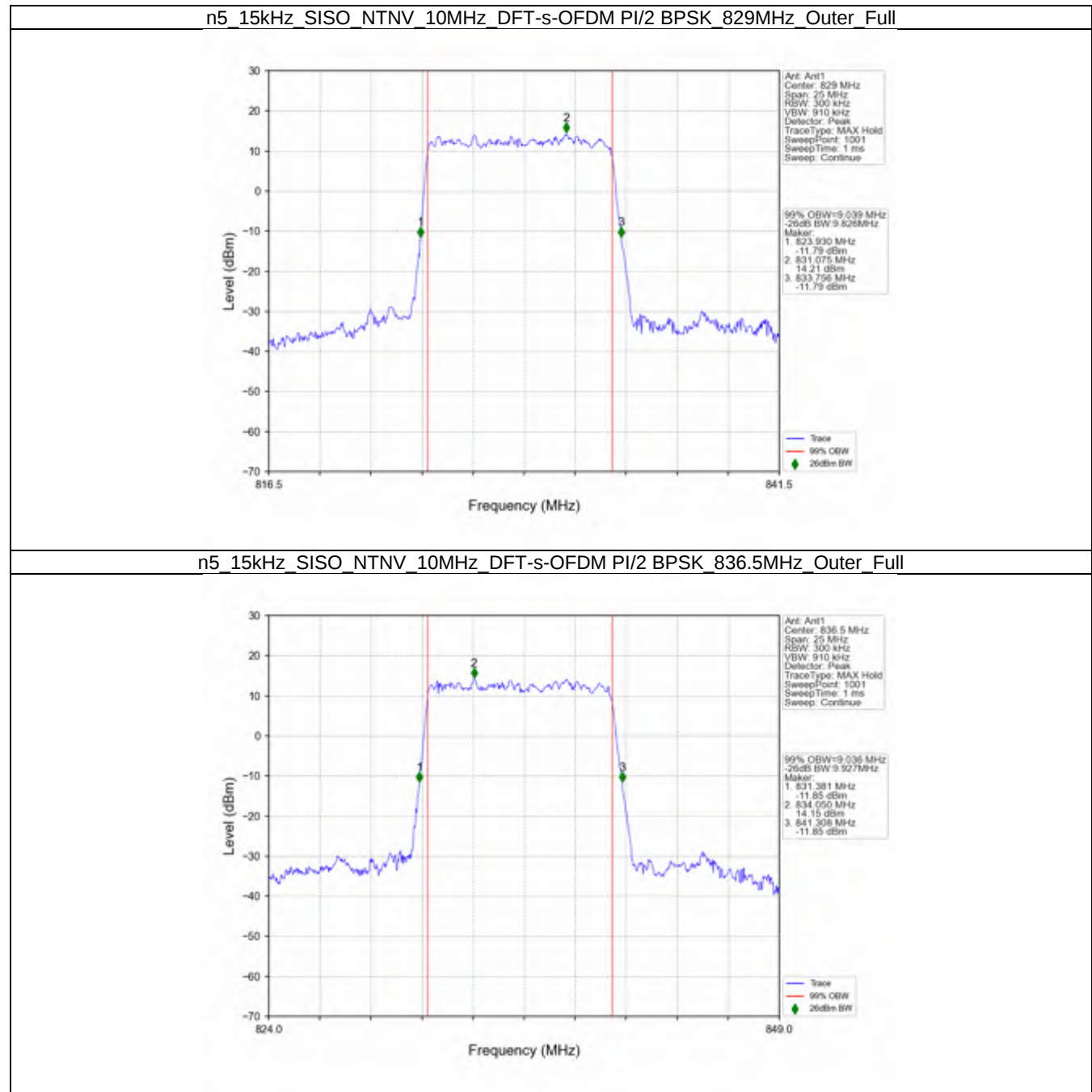
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2.2 15k_SISO_10MHz_NTNV

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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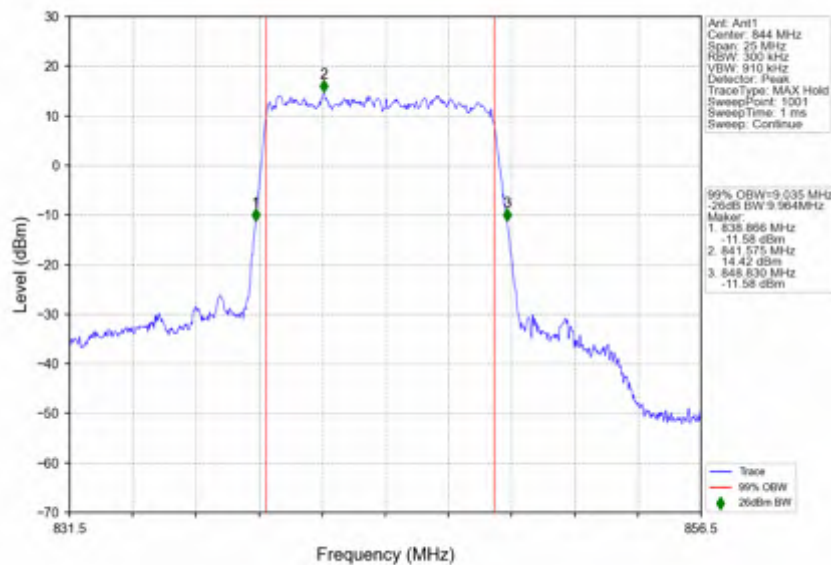
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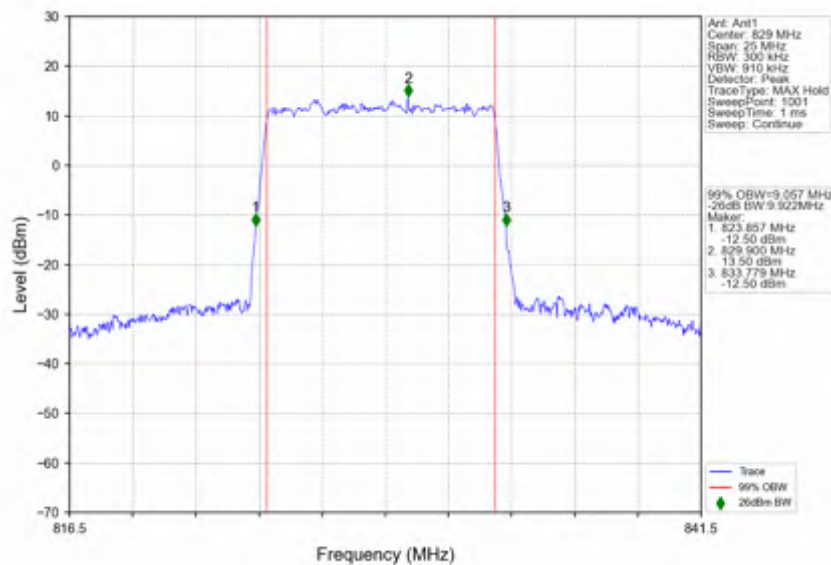
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n5_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_844MHz_Outer_Full



n5_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_829MHz_Outer_Full



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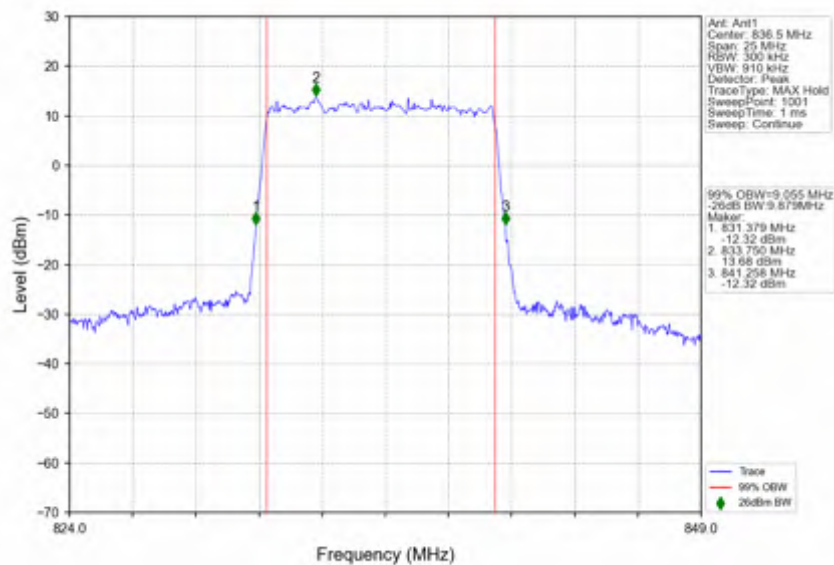
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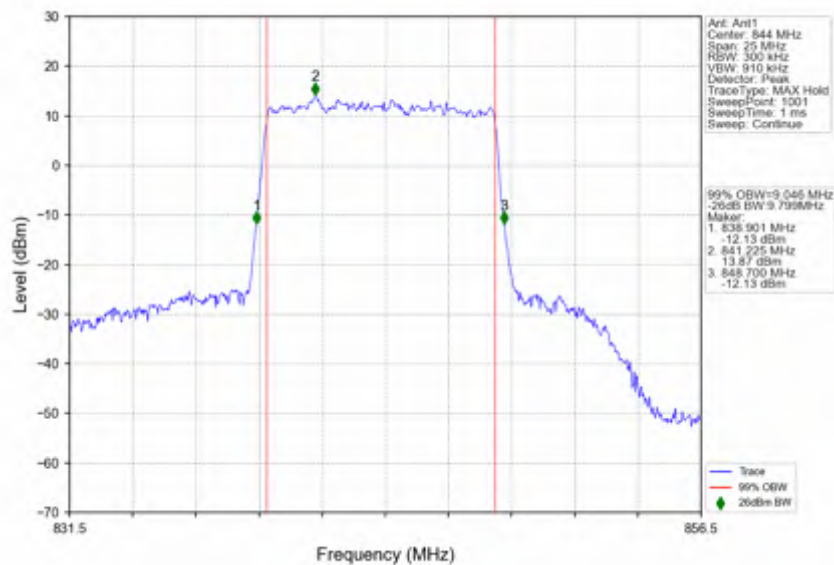
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n5_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_836.5MHz_Outer_Full



n5_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_844MHz_Outer_Full



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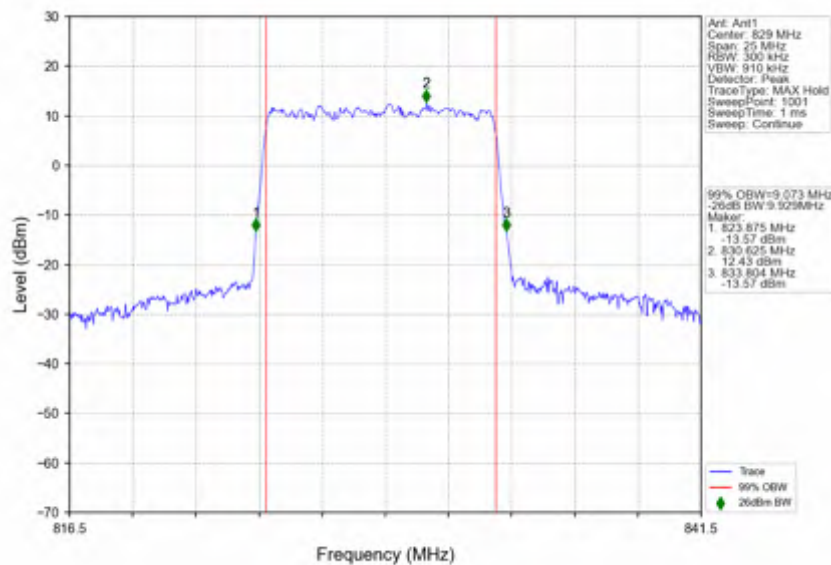
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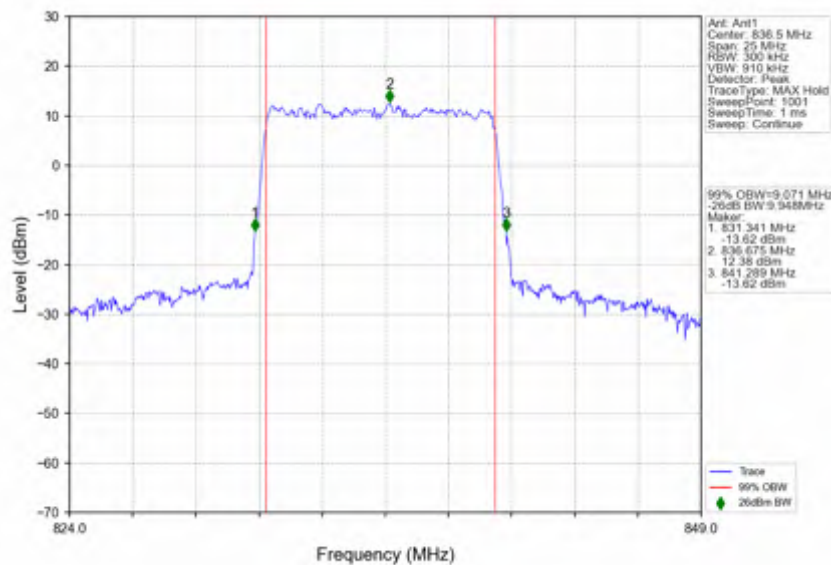
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n5_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_16_QAM_829MHz_Outer_Full



n5_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_16_QAM_836.5MHz_Outer_Full



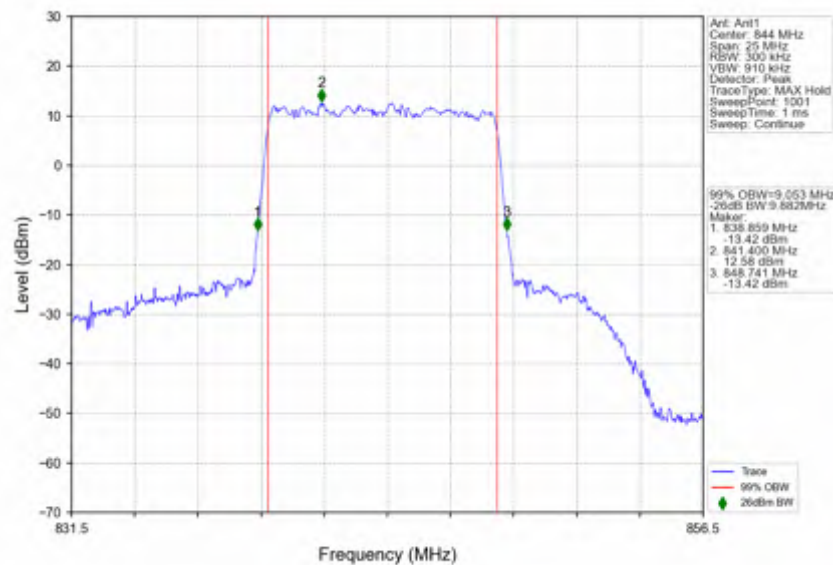
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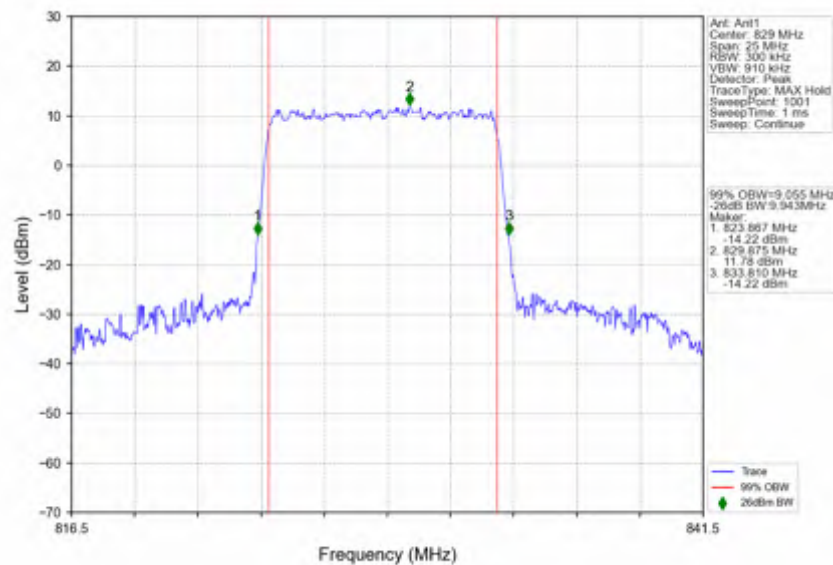
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n5_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_16 QAM_844MHz_Outer_Full



n5_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_64 QAM_829MHz_Outer_Full



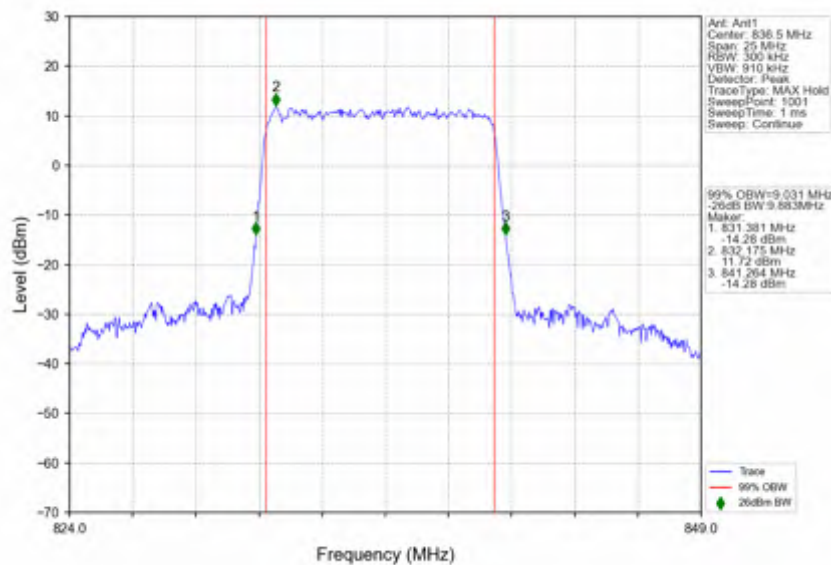
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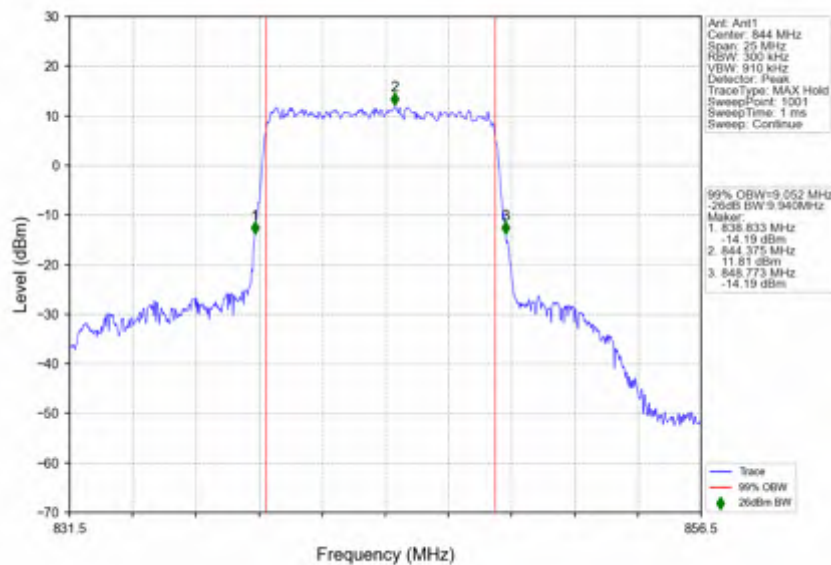
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n5_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 64 QAM_836.5MHz_Outer_Full



n5_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 64 QAM_844MHz_Outer_Full



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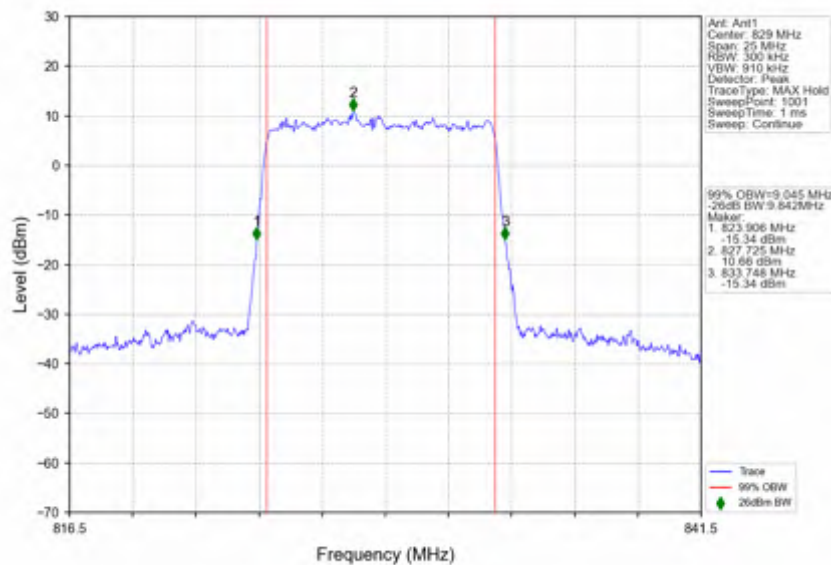
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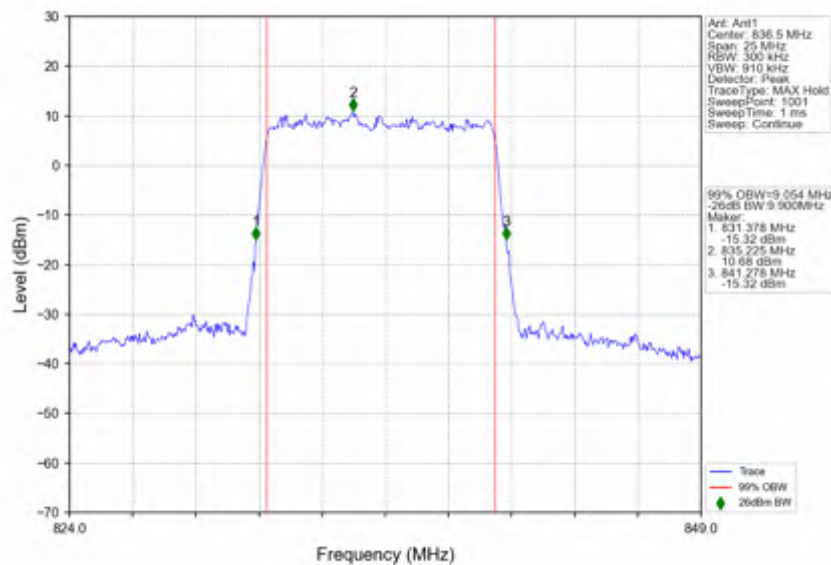
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n5_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_256_QAM_829MHz_Outer_Full



n5_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_256_QAM_836.5MHz_Outer_Full



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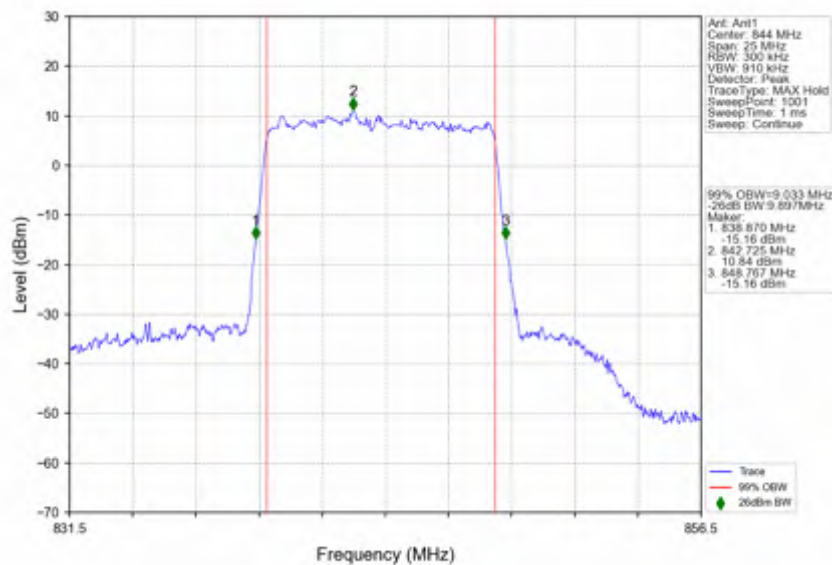
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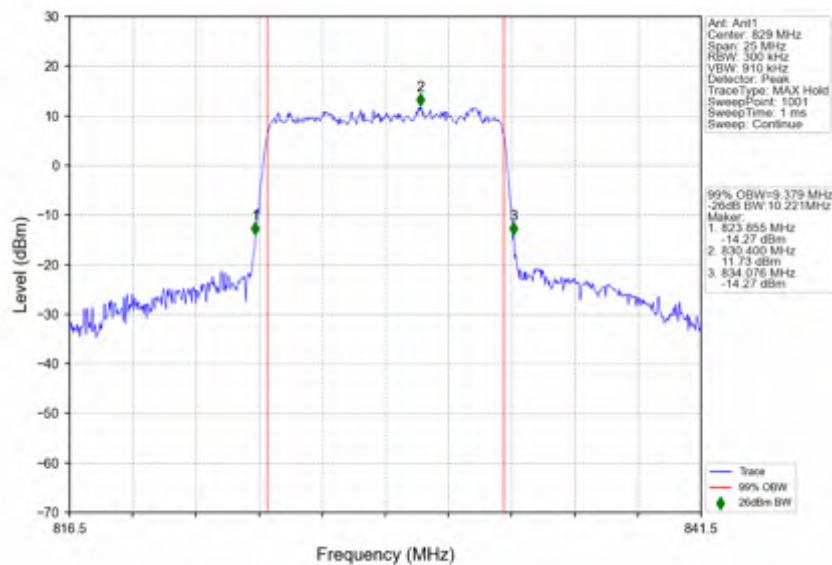
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n5 15kHz SISO NTNv 10MHz DFT-s-OFDM 256 QAM 844MHz Outer Full



n5_15kHz_SISO_NTNV_10MHz_CP-OFDM_QPSK_829MHz_Outer_Full

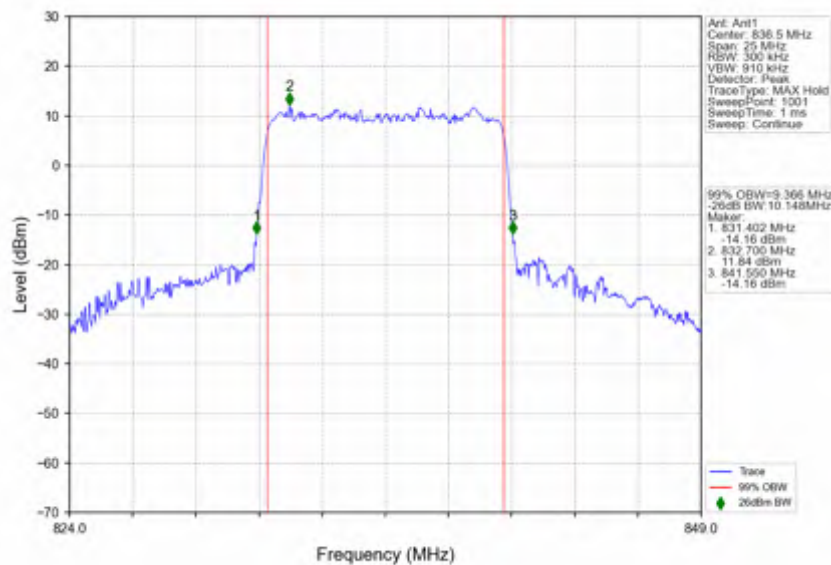


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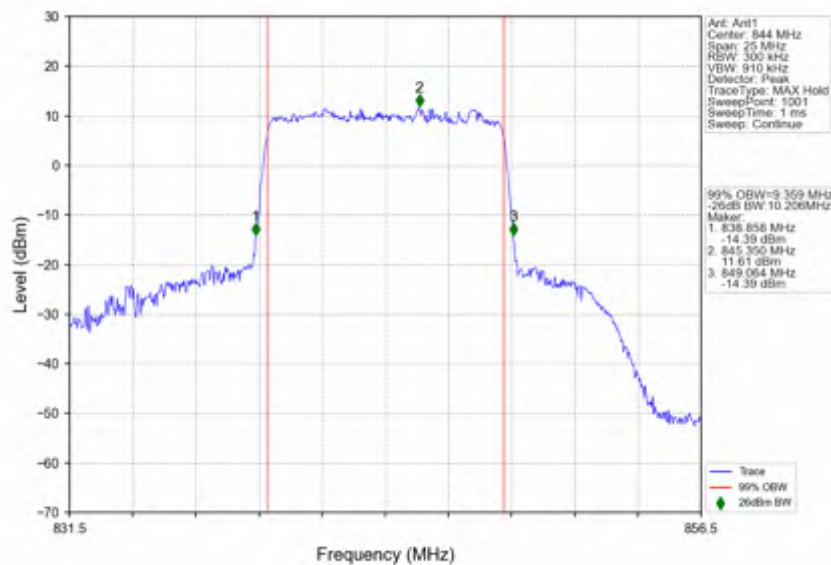
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n5_15kHz_SISO_NTNV_10MHz_CP-OFDM_QPSK_836.5MHz_Outer_Full



n5_15kHz_SISO_NTNV_10MHz_CP-OFDM_QPSK_844MHz_Outer_Full

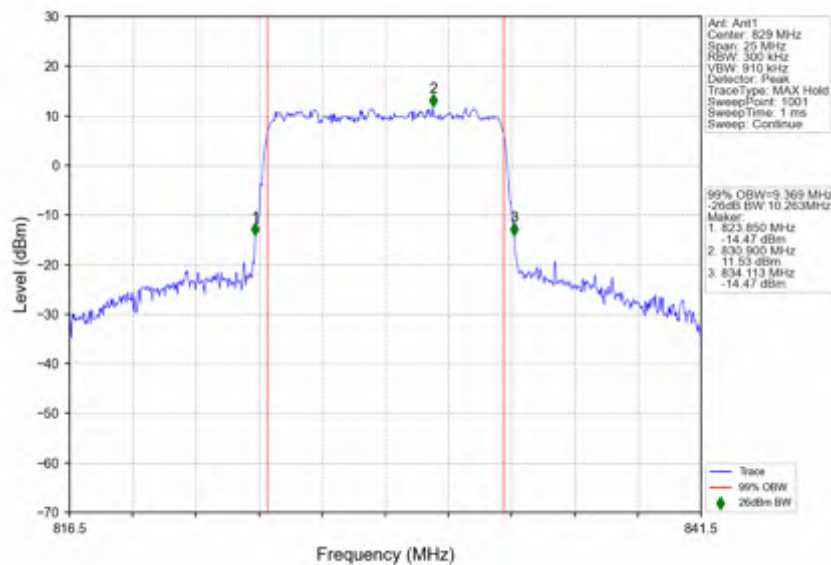


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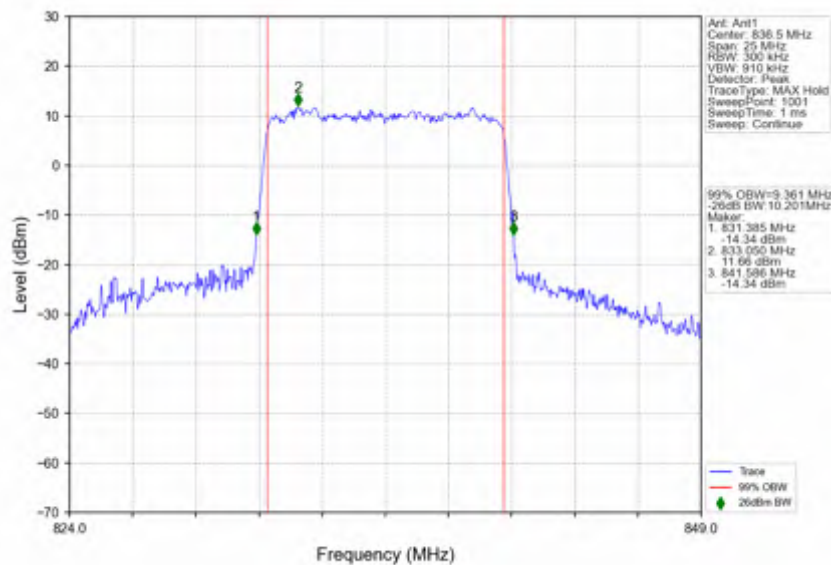
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n5_15kHz_SISO_NTNV_10MHz_CP-OFDM_16_QAM_829MHz_Outer_Full



n5_15kHz_SISO_NTNV_10MHz_CP-OFDM_16_QAM_836.5MHz_Outer_Full



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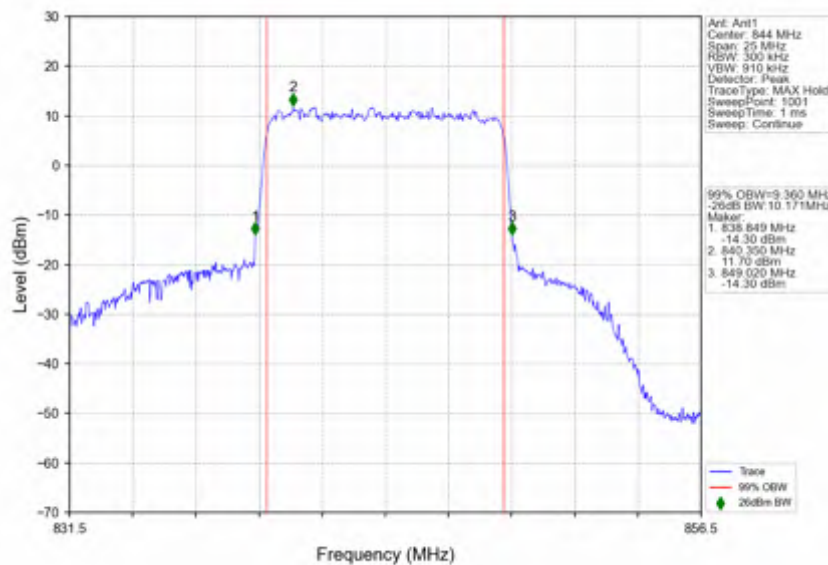
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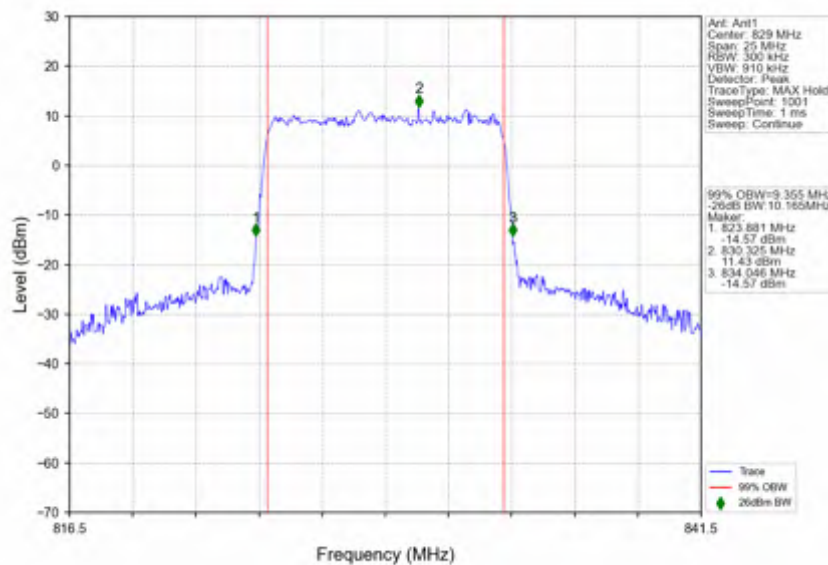
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n5_15kHz_SISO_NTNV_10MHz_CP-OFDM 16 QAM_844MHz_Outer_Full



n5_15kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_829MHz_Outer_Full



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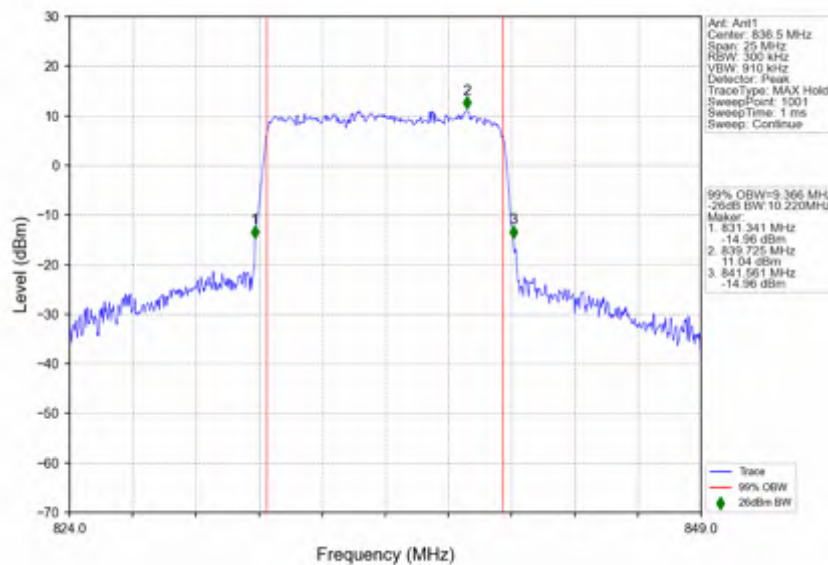
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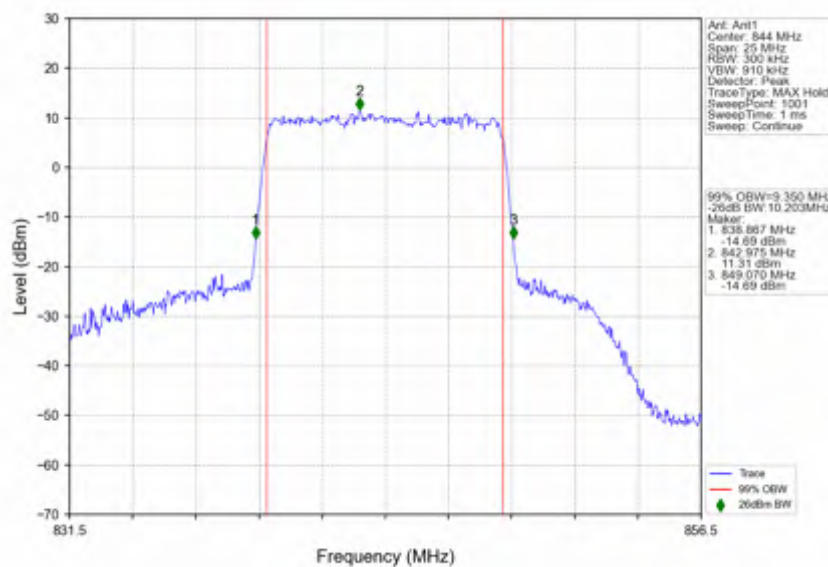
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n5_15kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_836.5MHz_Outer_Full



n5_15kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_844MHz_Outer_Full



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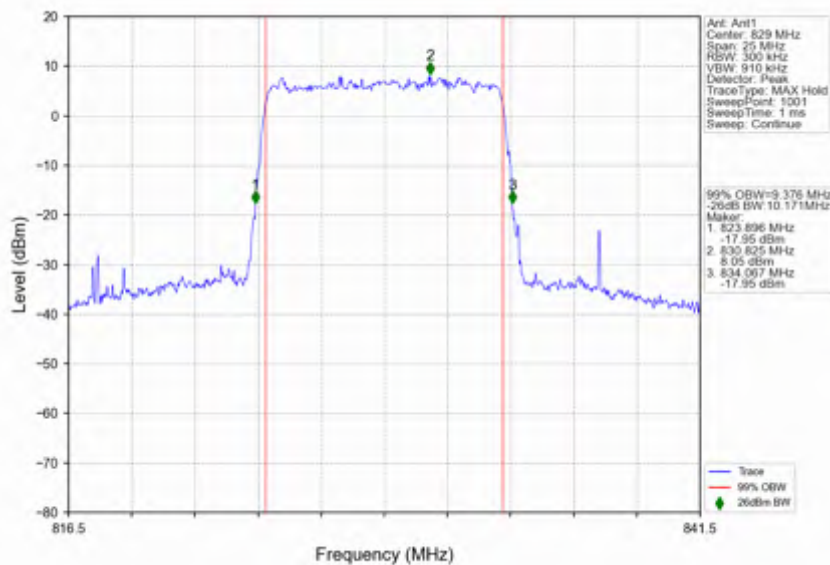
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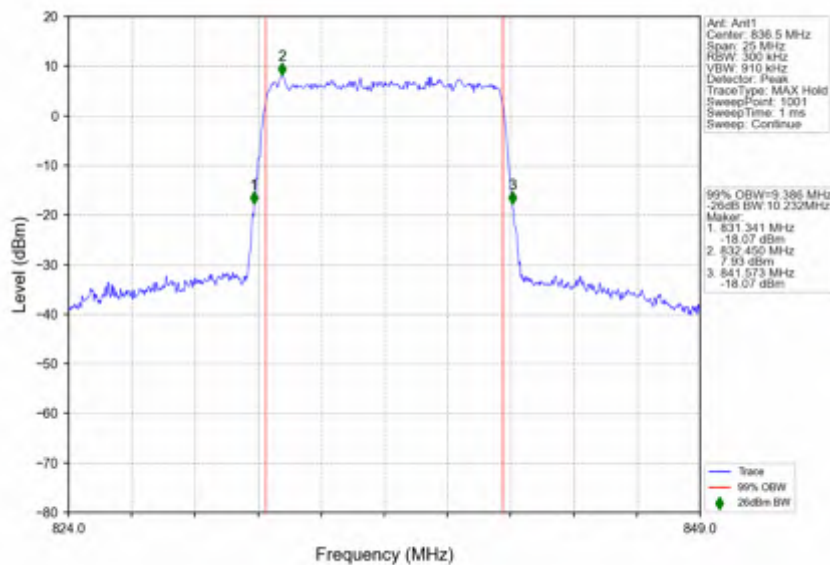
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n5_15kHz_SISO_NTNV_10MHz_CP-OFDM_256_QAM_829MHz_Outer_Full



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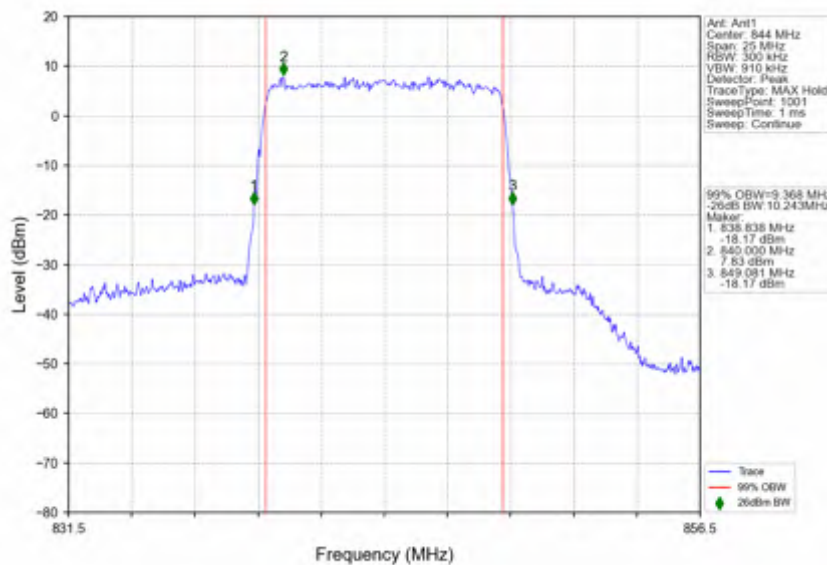


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n5_15kHz_SISO_NTNV_10MHz_CP-OFDM 256 QAM_844MHz_Outer_Full



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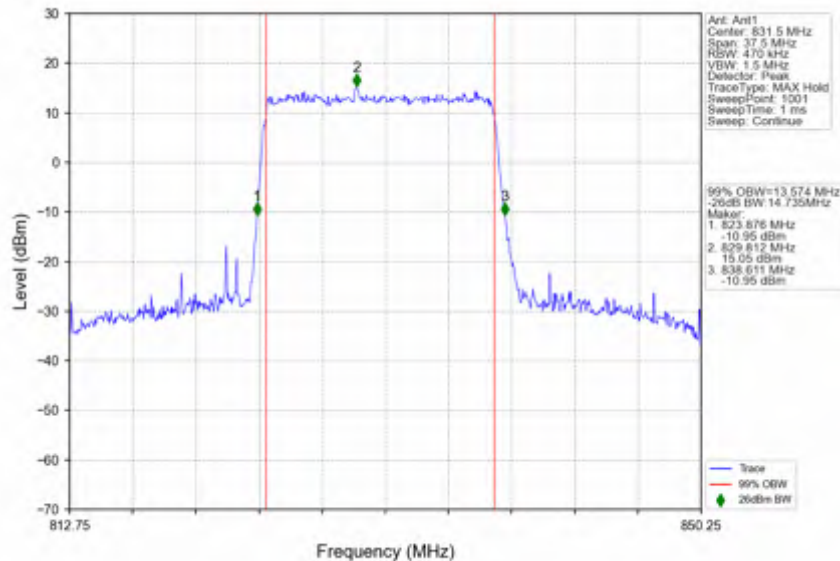
2.3 15k_SISO_15MHz_NTNV

2.3.1 Test Result

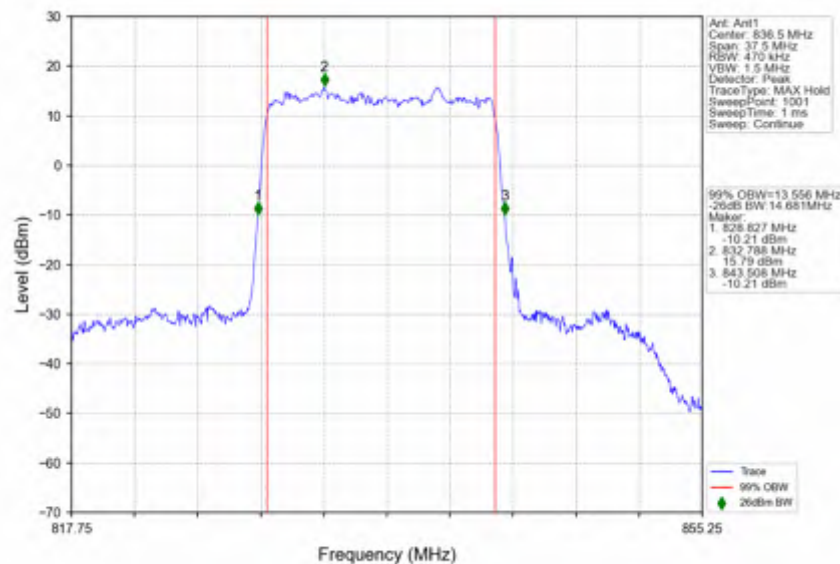
5G NR n5 SCS=15kHz SISO 15MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	831.5	Outer_Full	13.57	14.73	/	Pass
	836.5	Outer_Full	13.56	14.68	/	Pass
	841.5	Outer_Full	13.58	14.70	/	Pass
DFT-s-OFDM QPSK	831.5	Outer_Full	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



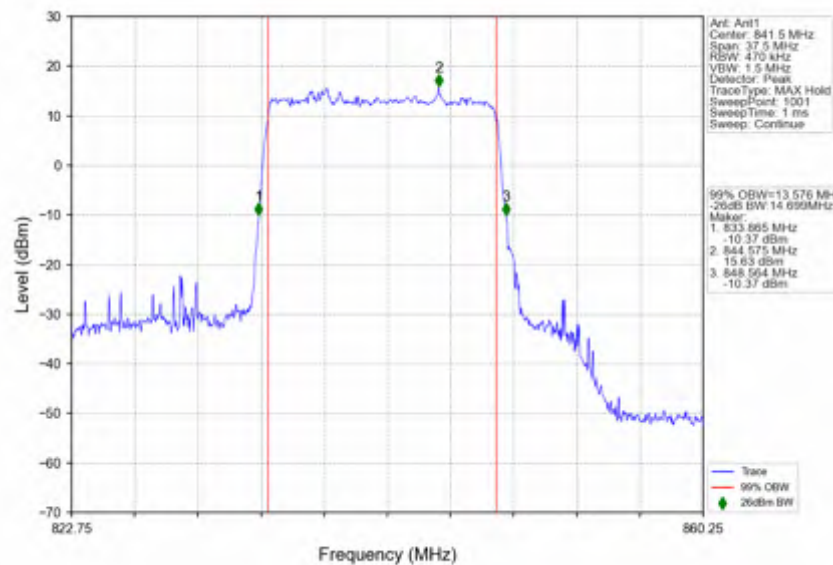
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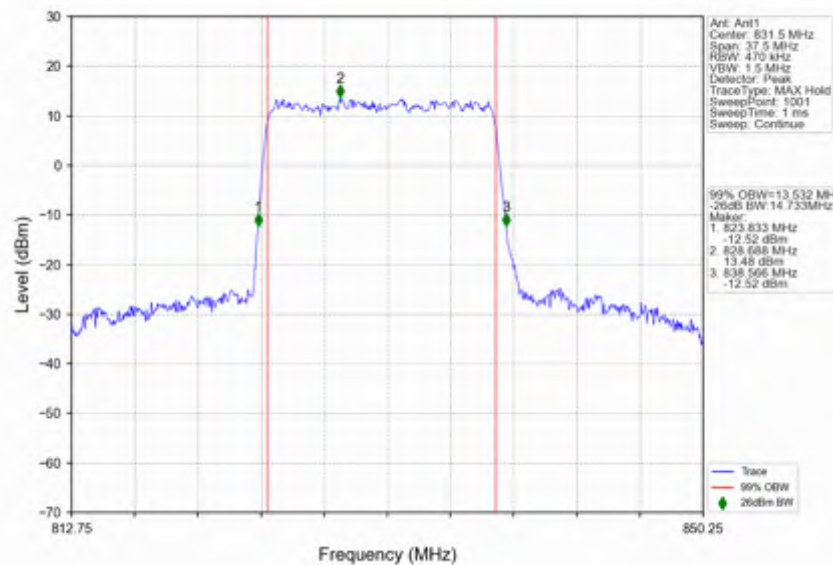
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n5_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_841.5MHz_Outer_Full



n5_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_831.5MHz_Outer_Full



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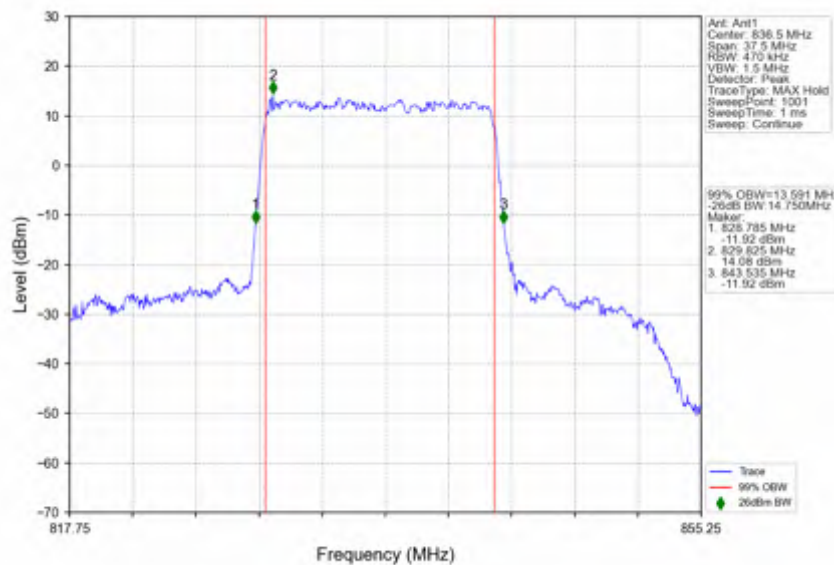
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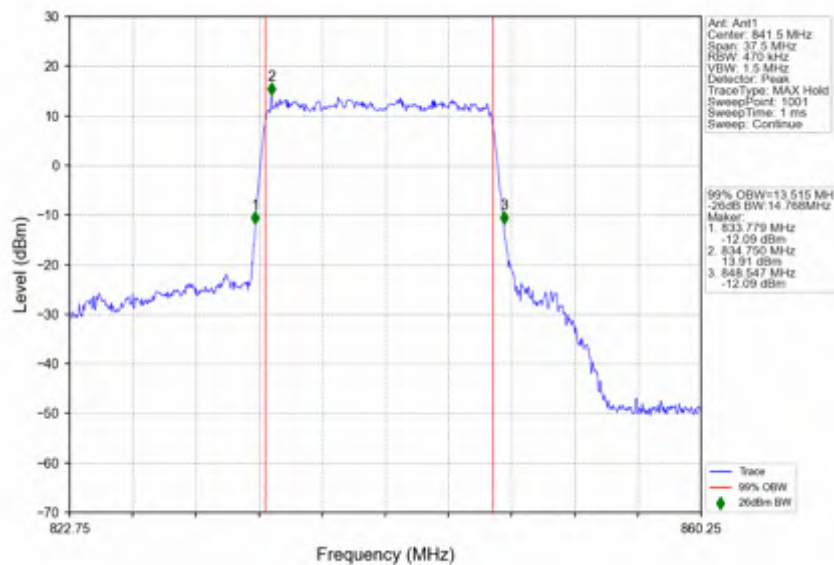
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n5_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM_QPSK_836.5MHz_Outer_Full



n5_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM_QPSK_841.5MHz_Outer_Full



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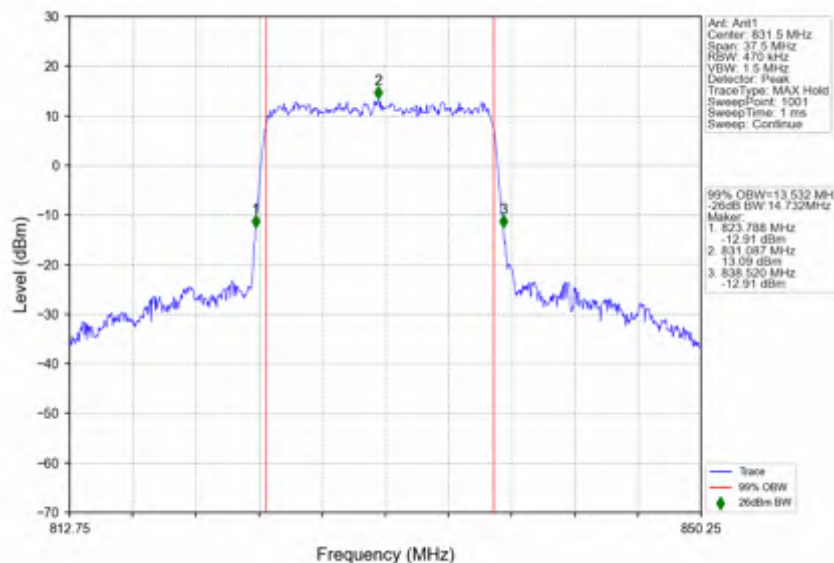
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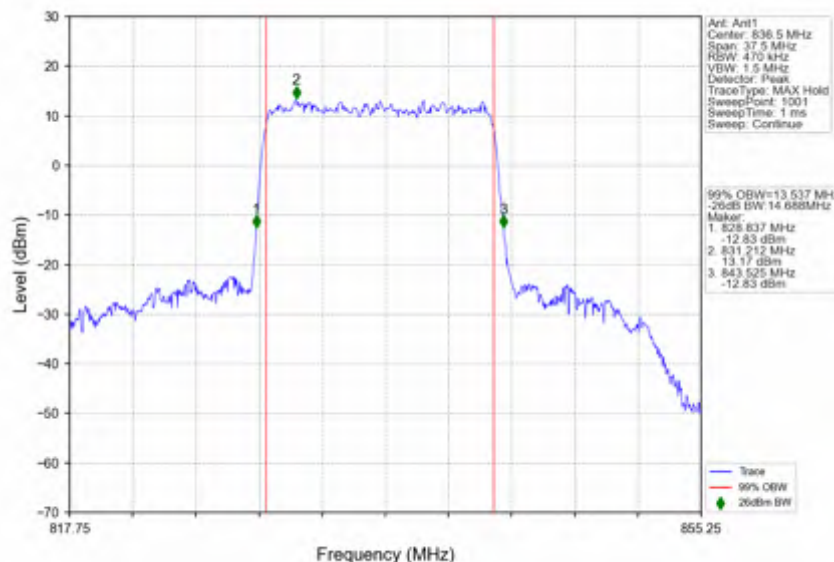
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n5 15kHz SISO NTN 15MHz DFT-s-OFDM 16 QAM 831.5MHz Outer Full



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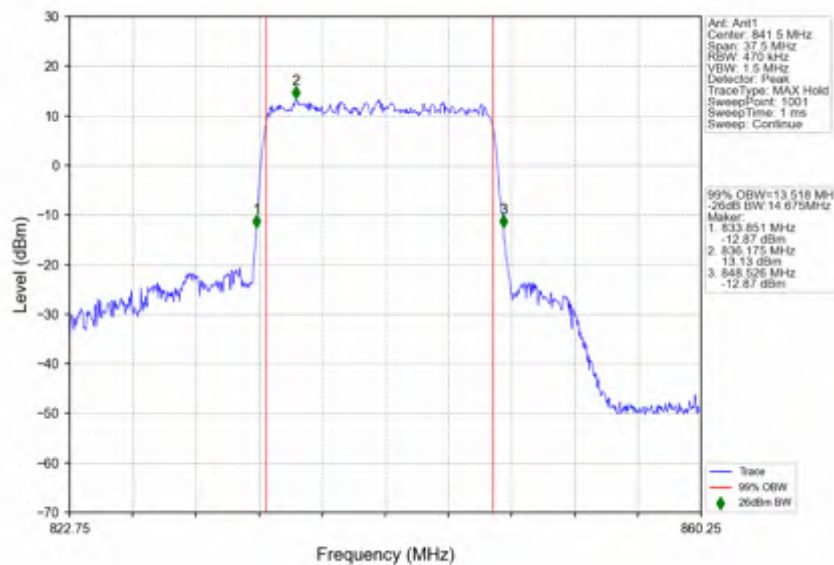


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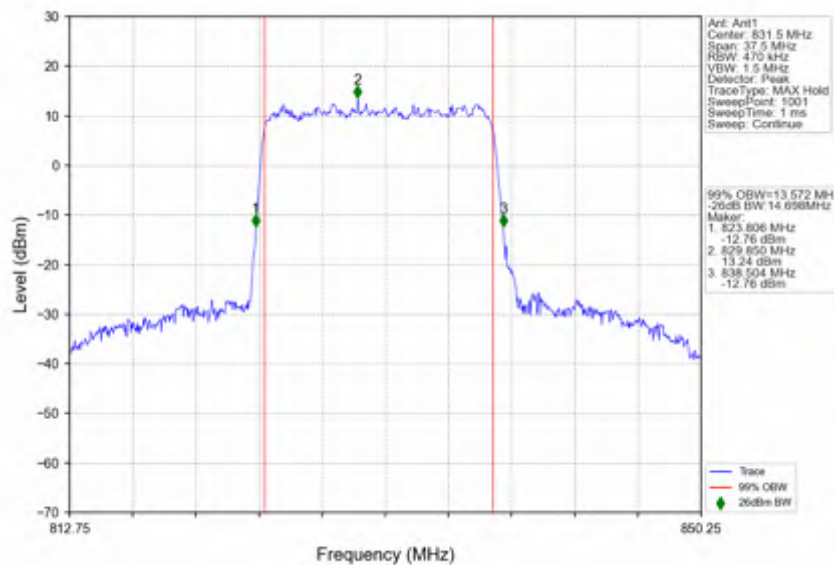
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n5_15kHz_SISO_NTV_15MHz_DFT-s-OFDM 16 QAM 841.5MHz_Outer_Full



n5_15kHz_SISO_NTV_15MHz_DFT-s-OFDM 64 QAM 831.5MHz_Outer_Full



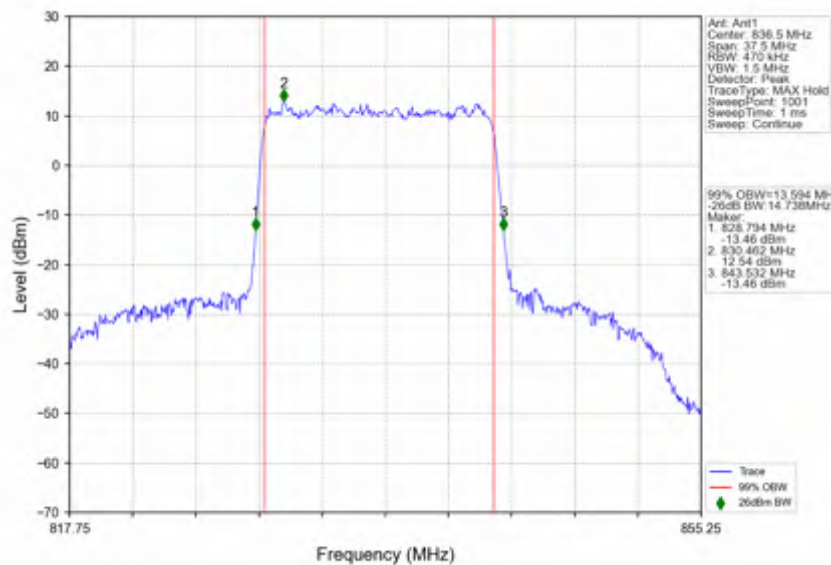
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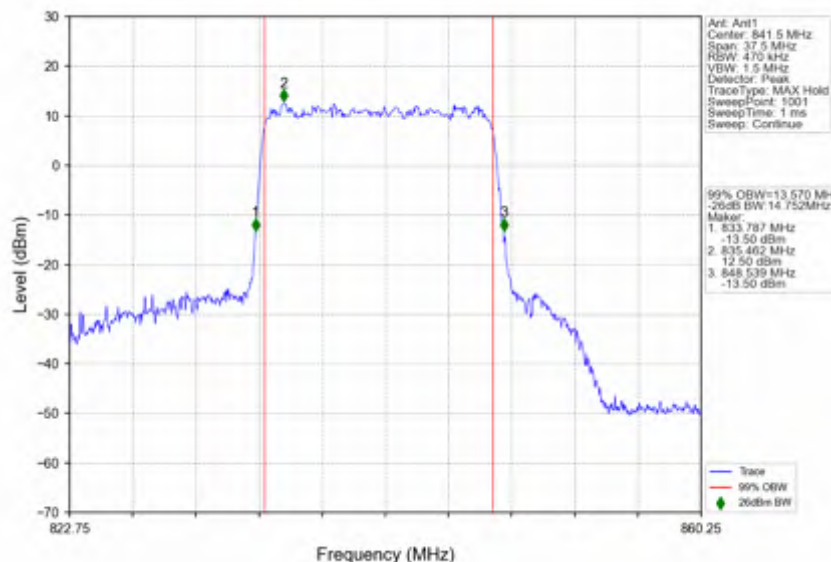
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n5_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM_64_QAM_836.5MHz_Outer_Full



n5	15kHz	SISO	NTNV	15MHz	DFT-s-OFDM	64 QAM	841.5MHz	Outer	Full
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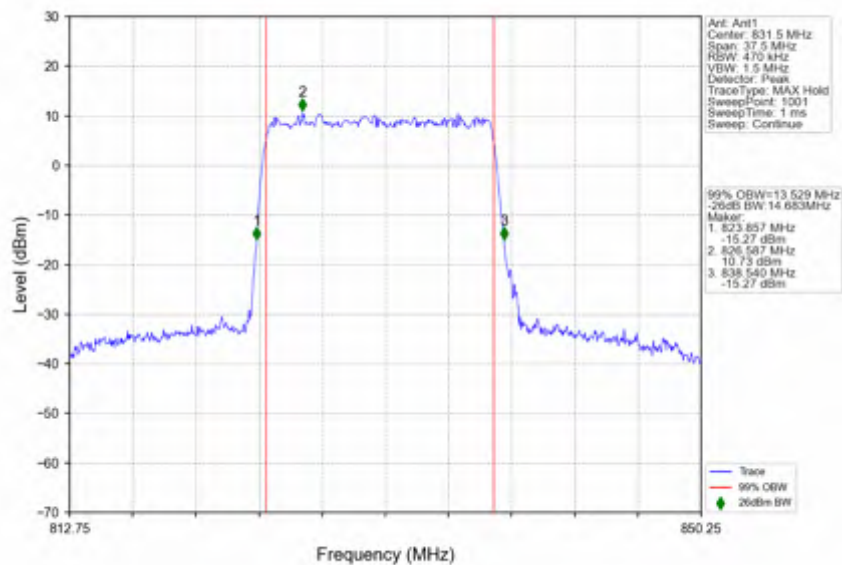


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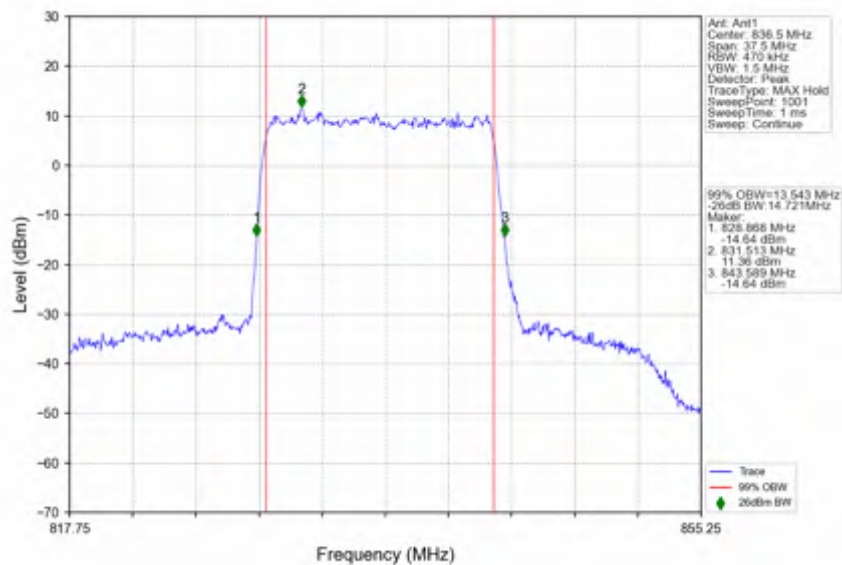
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n5_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM_256_QAM_831.5MHz_Outer_Full



n5_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM_256_QAM_836.5MHz_Outer_Full



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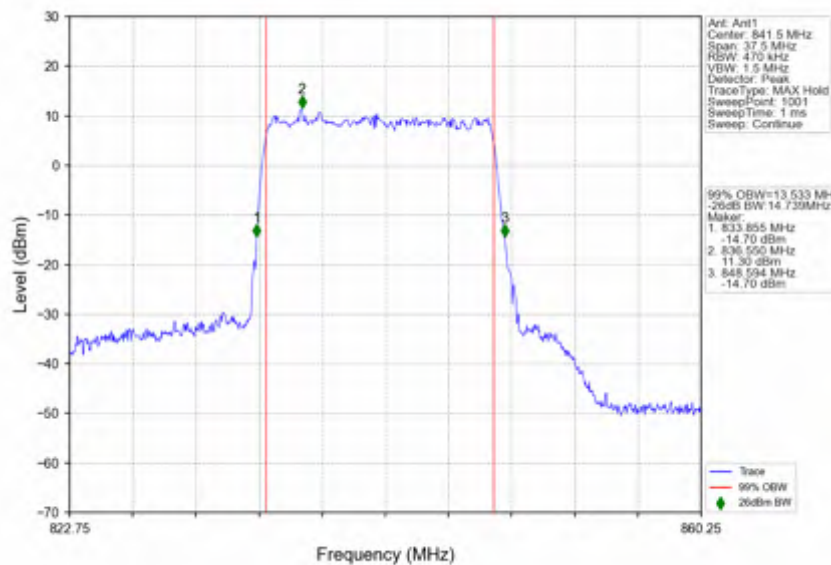
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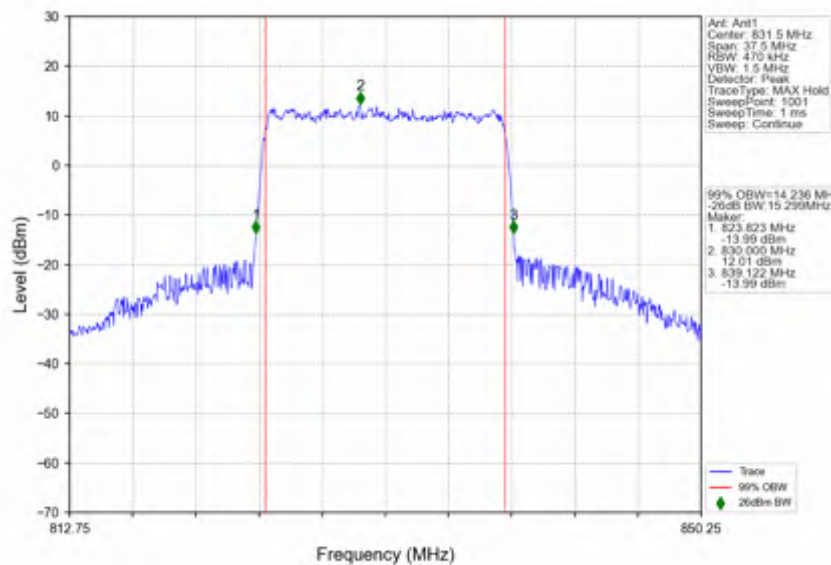
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n5_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM_256_QAM_841.5MHz_Outer_Full



n5_15kHz_SISO_NTNV_15MHz_CP-OFDM_QPSK_831.5MHz_Outer_Full

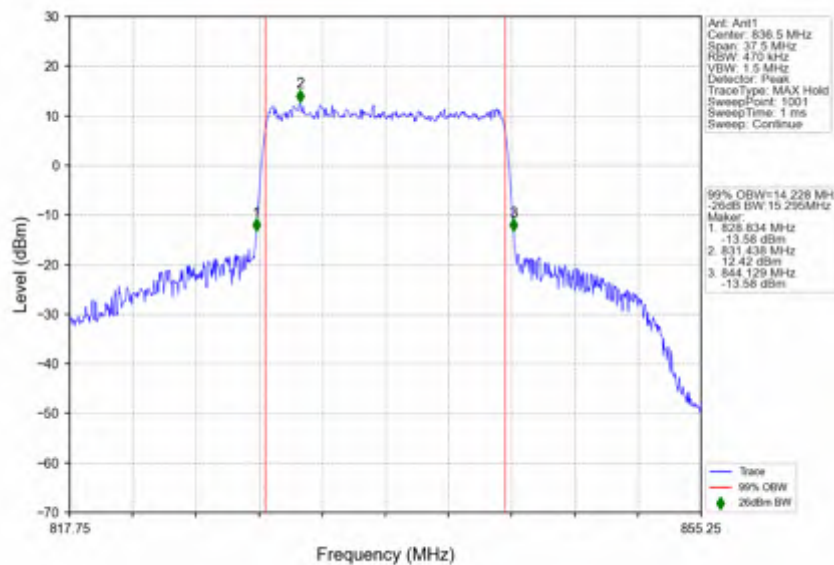


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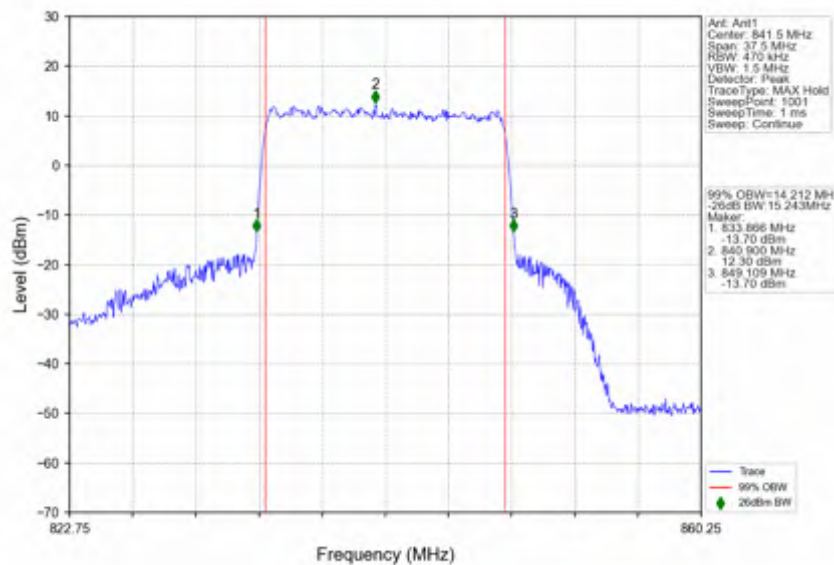
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n5_15kHz_SISO_NTNV_15MHz_CP-OFDM_QPSK_836.5MHz_Outer_Full



n5_15kHz_SISO_NTNV_15MHz_CP-OFDM_QPSK_841.5MHz_Outer_Full



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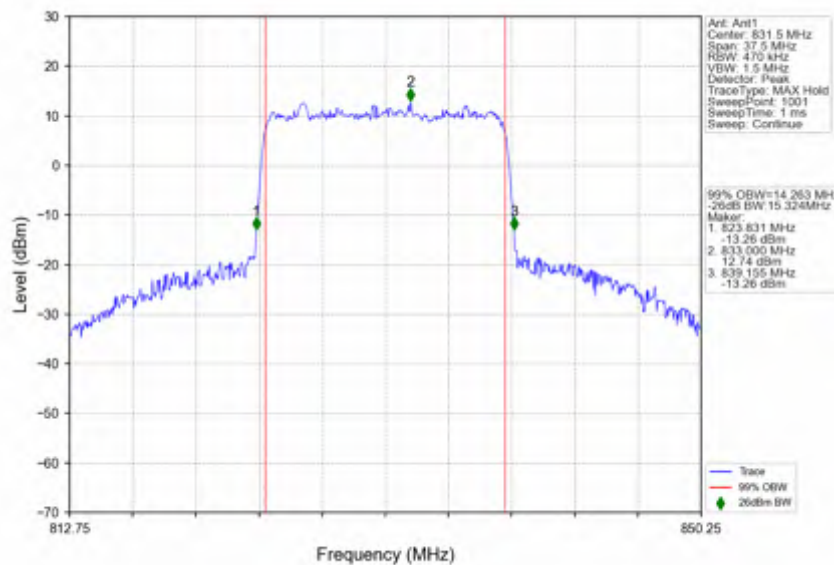
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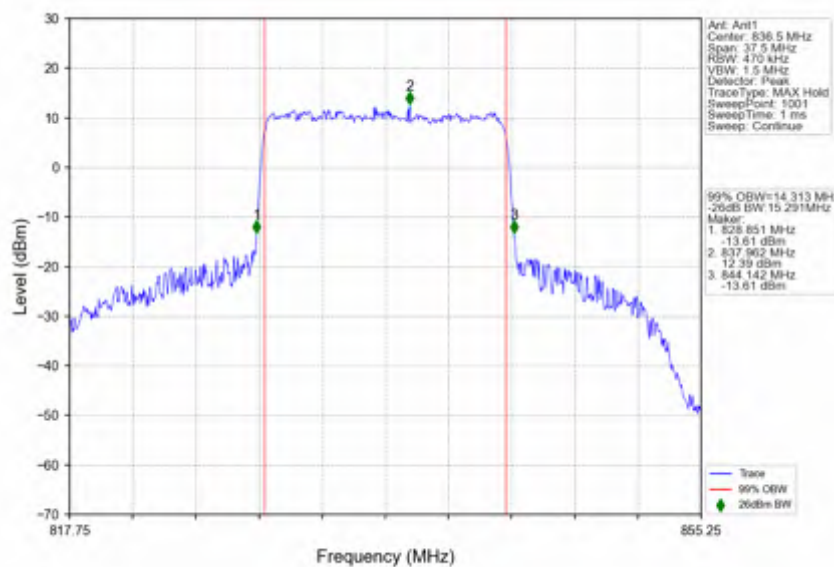
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n5_15kHz_SISO_NTNV_15MHz_CP-OFDM_16_QAM_831.5MHz_Outer_Full



n5 15kHz SISO NTNV 15MHz CP-OFDM 16 QAM 836.5MHz Outer Full

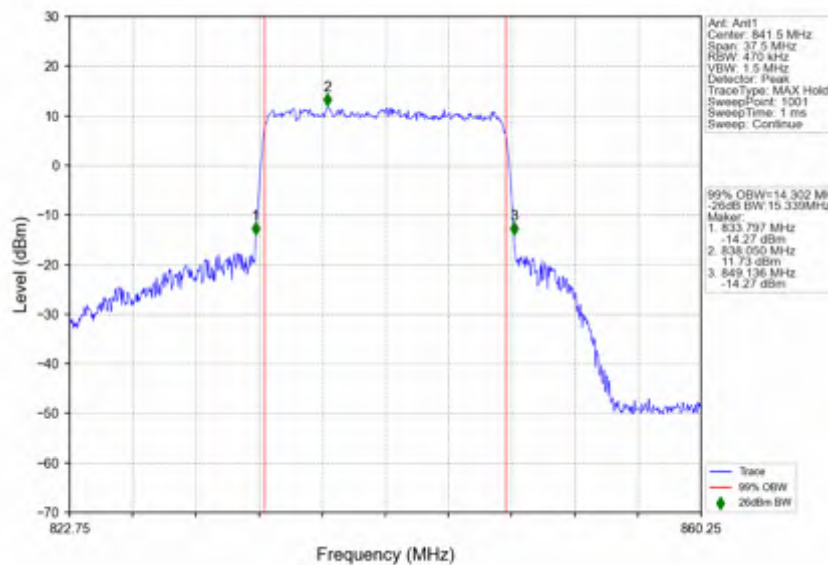


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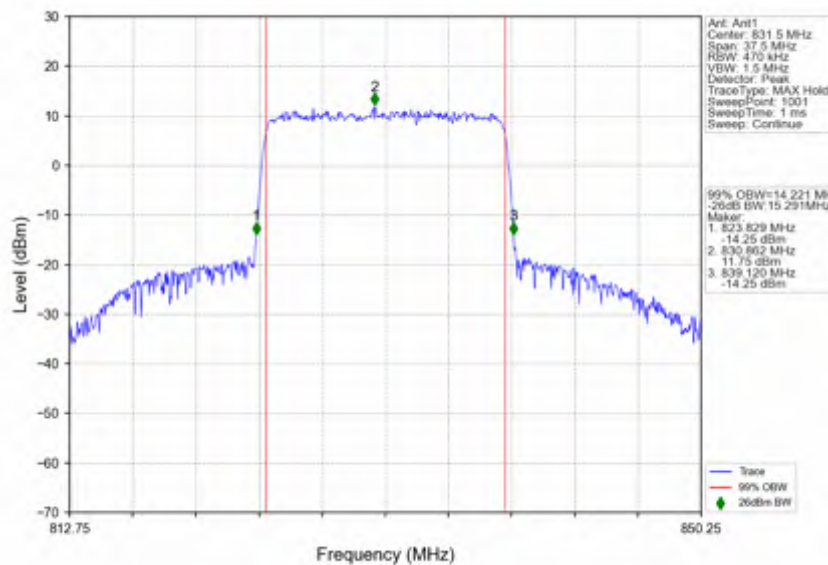
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n5_15kHz_SISO_NTNV_15MHz_CP-OFDM 16 QAM 841.5MHz_Outer_Full



n5_15kHz_SISO_NTNV_15MHz_CP-OFDM 64 QAM 831.5MHz_Outer_Full



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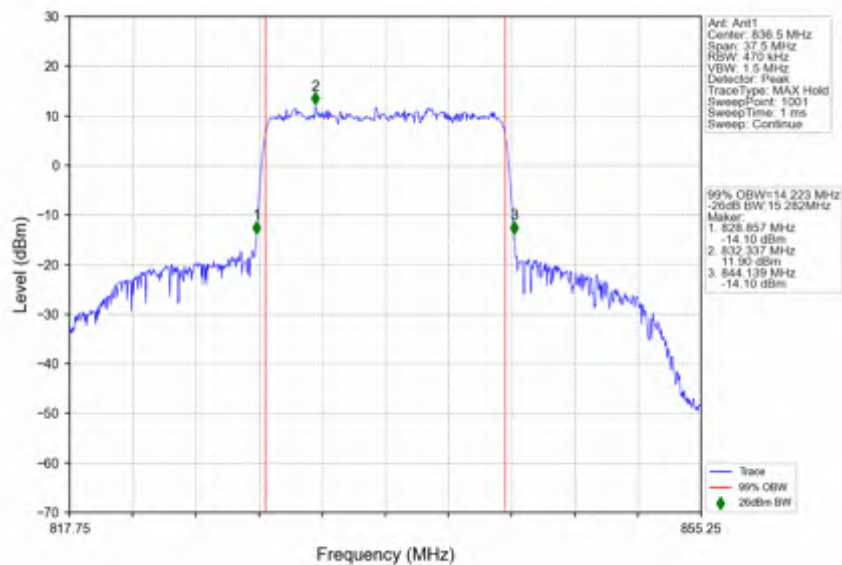
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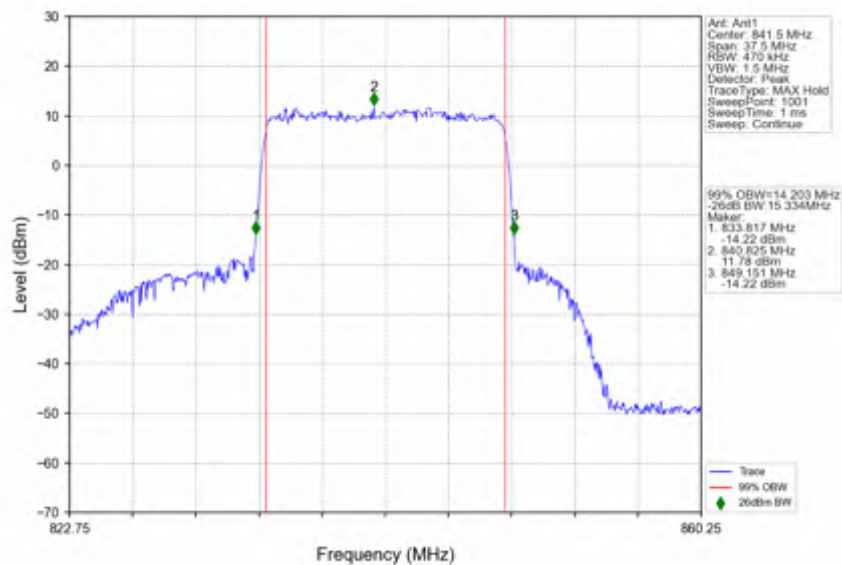
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n5_15kHz_SISO_NTV_15MHz_CP-OFDM 64 QAM_836.5MHz_Outer_Full



n5_15kHz_SISO_NTV_15MHz_CP-OFDM 64 QAM_841.5MHz_Outer_Full



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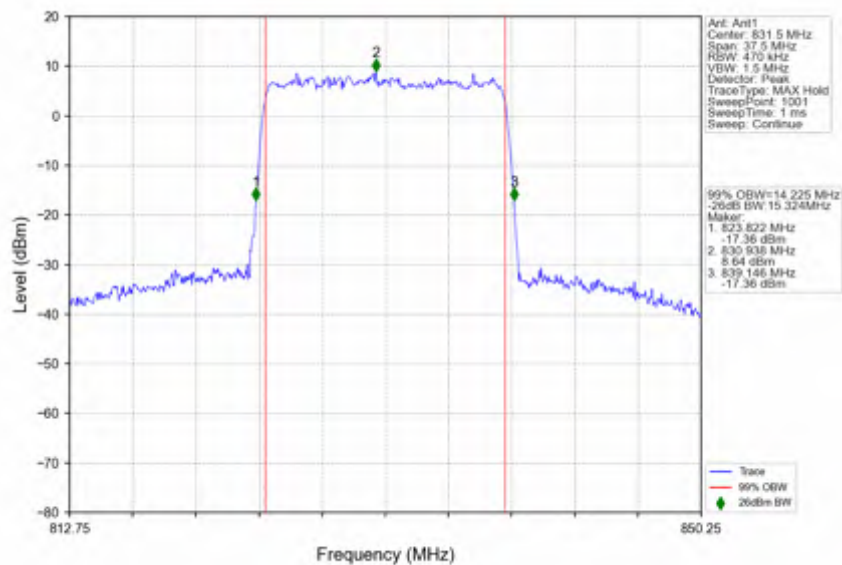
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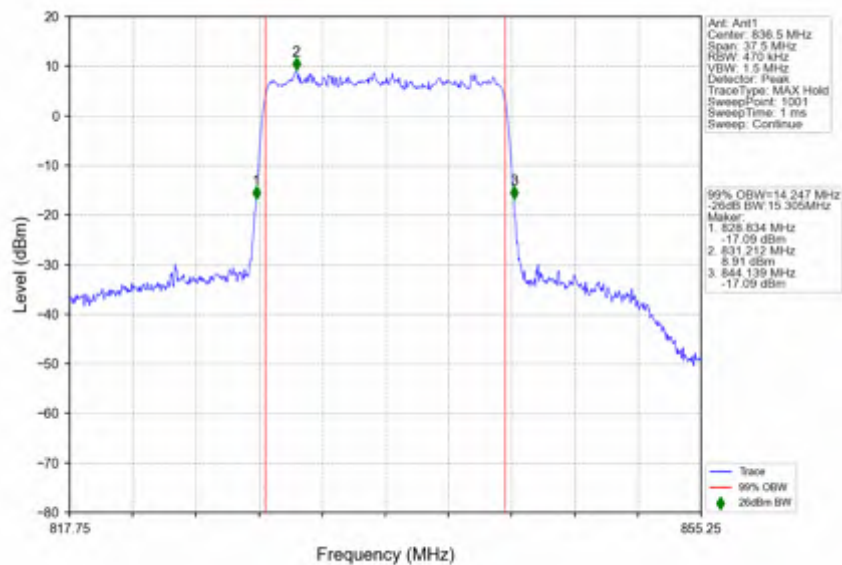
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n5_15kHz_SISO_NTNV_15MHz_CP-OFDM_256_QAM_831.5MHz_Outer_Full



n5_15kHz_SISO_NTNV_15MHz_CP-OFDM_256_QAM_836.5MHz_Outer_Full



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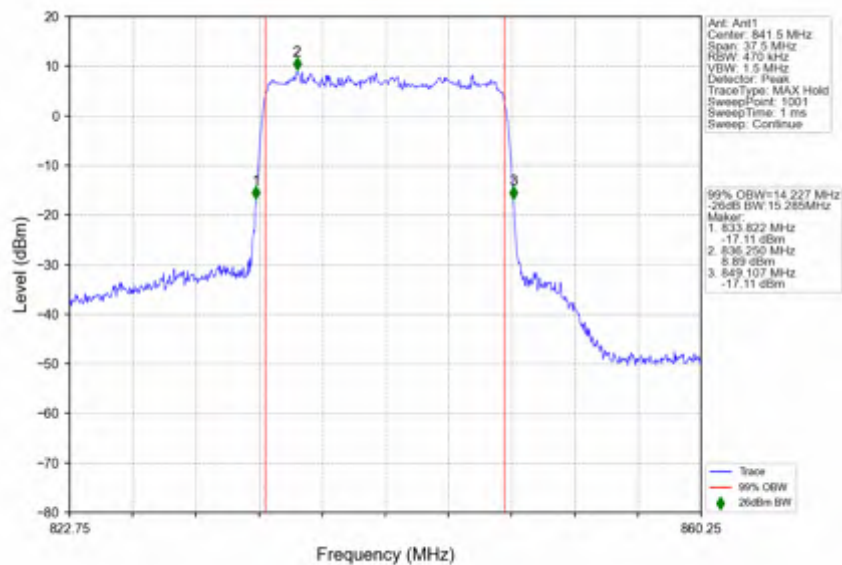
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n5_15kHz_SISO_NTNV_15MHz_CP-OFDM_256_QAM_841.5MHz_Outer_Full



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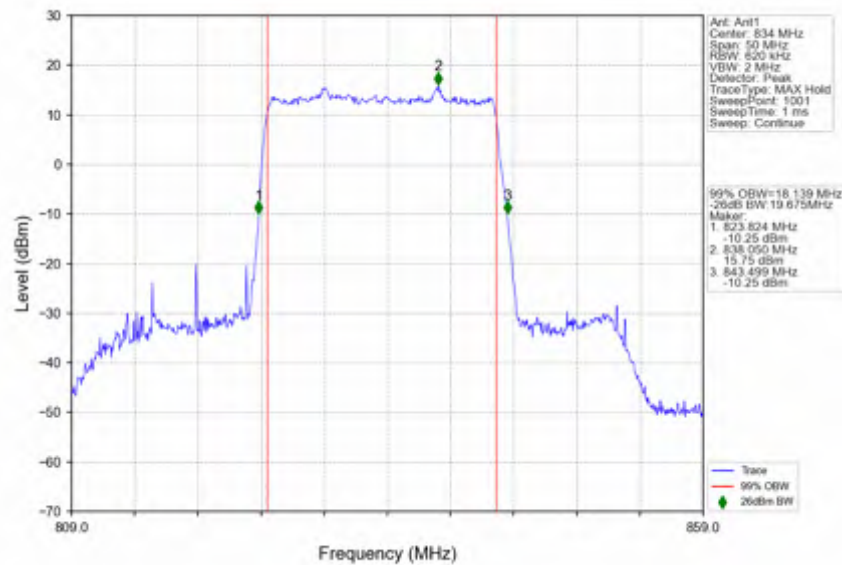
2.4 15k_SISO_20MHz_NTNV

2.4.1 Test Result

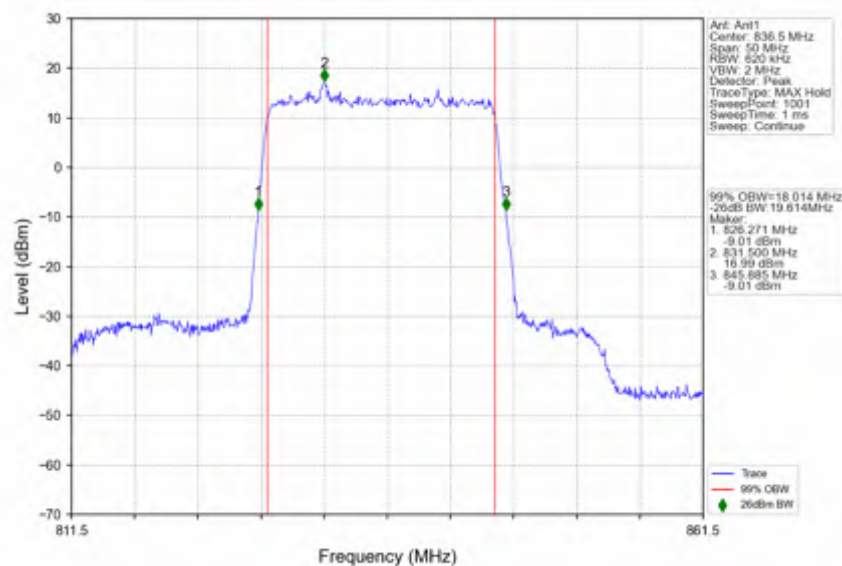
5G NR n5 SCS=15kHz SISO 20MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	834	Outer_Full	18.14	19.68	/	Pass
	836.5	Outer_Full	18.01	19.61	/	Pass
	839	Outer_Full	18.02	19.57	/	Pass
DFT-s-OFDM QPSK	834	Outer_Full	18.22	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

n5_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_PI/2_BPSK_834MHz_Outer_Full



n5_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_PI/2_BPSK_836.5MHz_Outer_Full



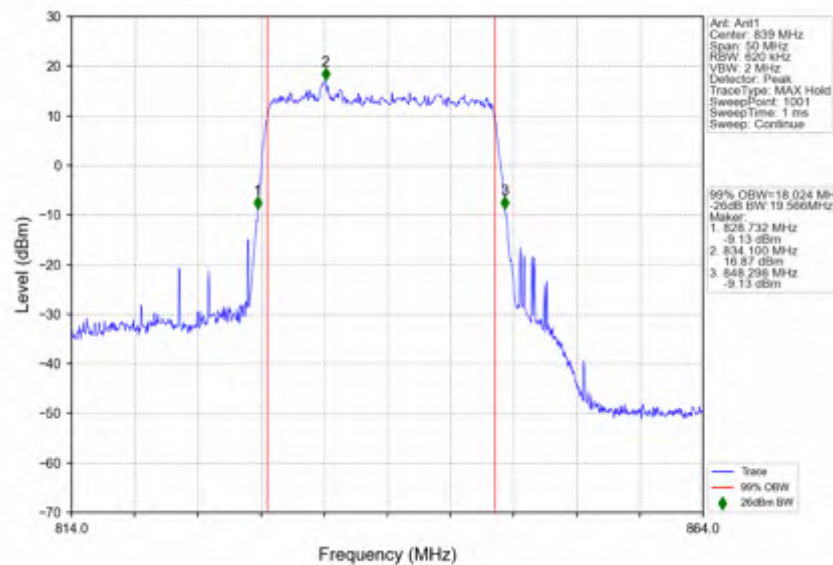
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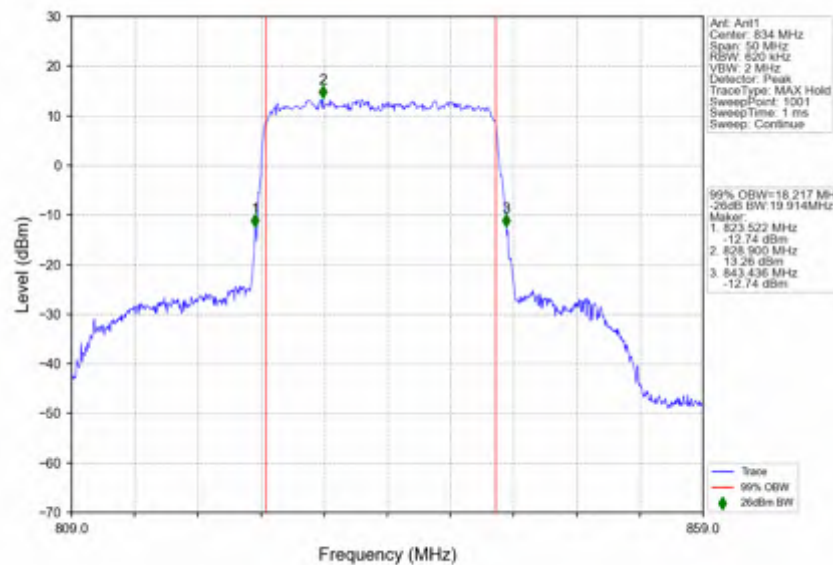
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n5_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_839MHz_Outer_Full



n5_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_834MHz_Outer_Full



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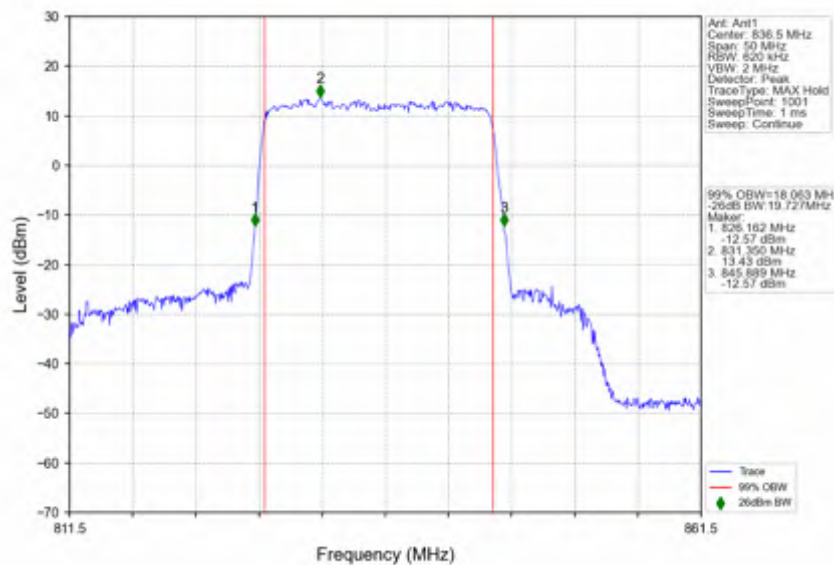
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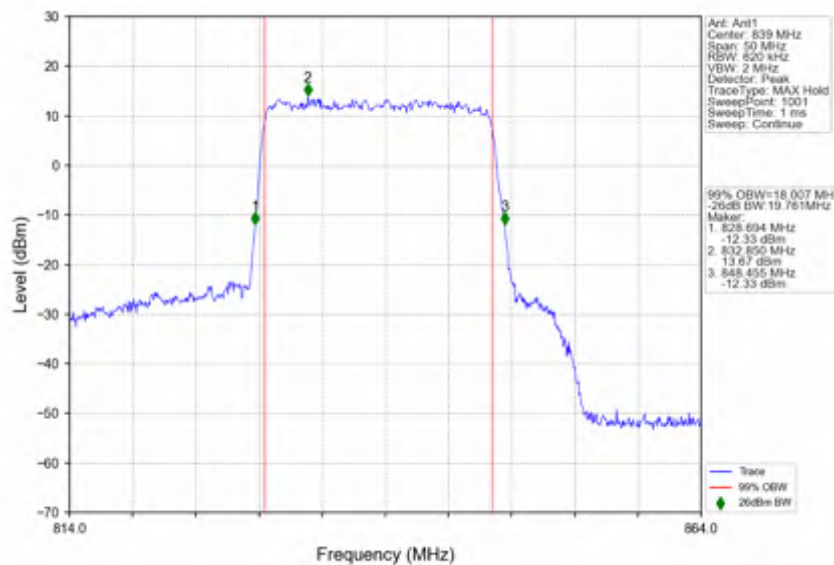
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n5_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_839MHz_Outer_Full



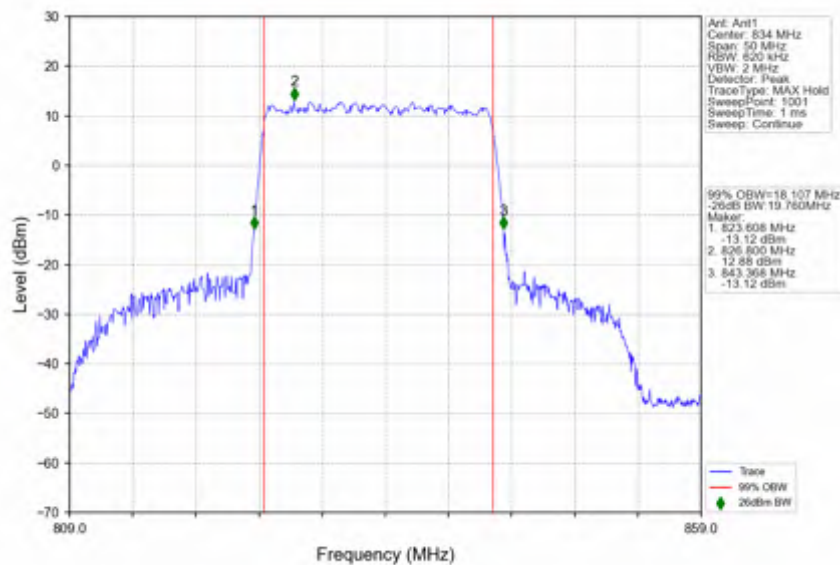
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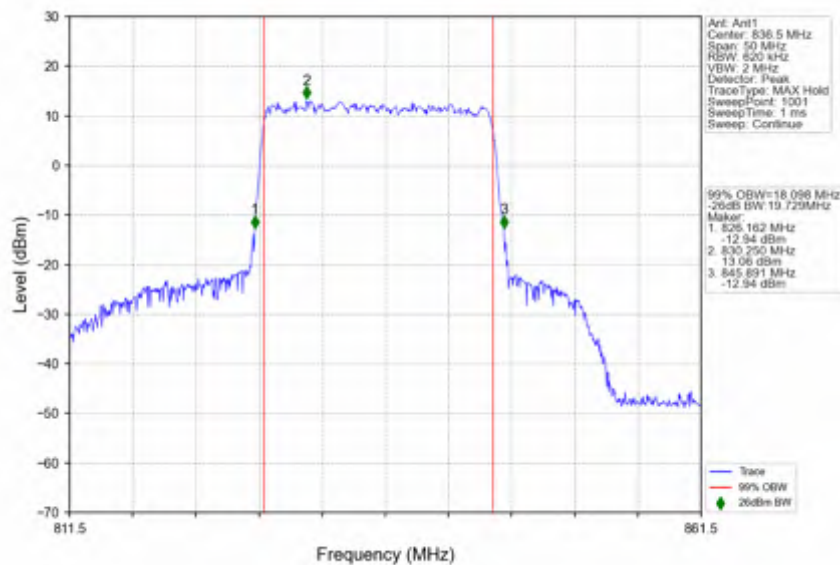
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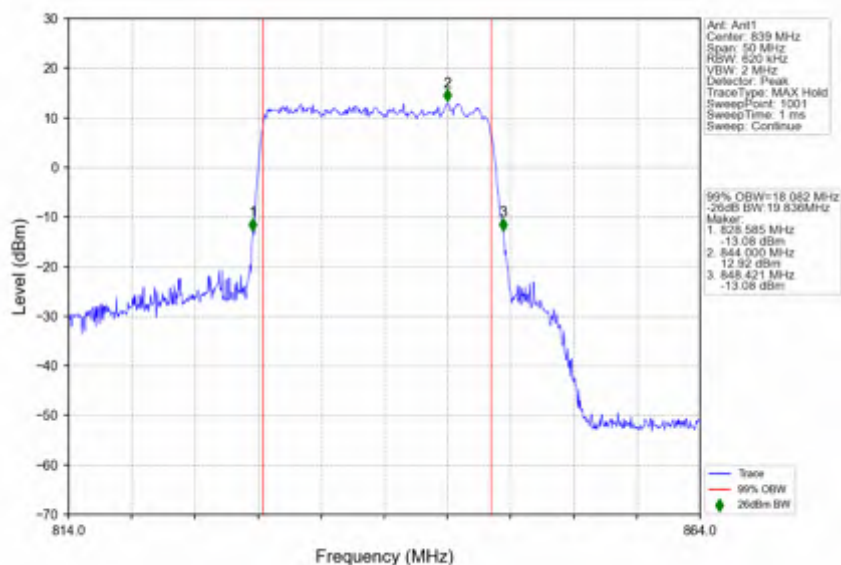
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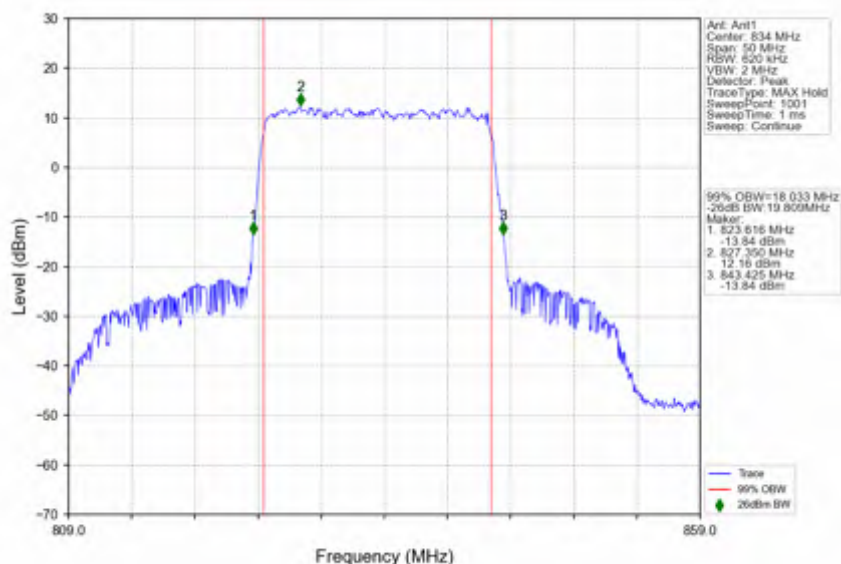
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n5	15kHz	SISO	NTNV	20MHz	DFT-s-OFDM	16 QAM	839MHz	Outer	Full
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n5	15kHz	SISO	NTNV	20MHz	DFT-s-OFDM	64 QAM	834MHz	Outer	Full
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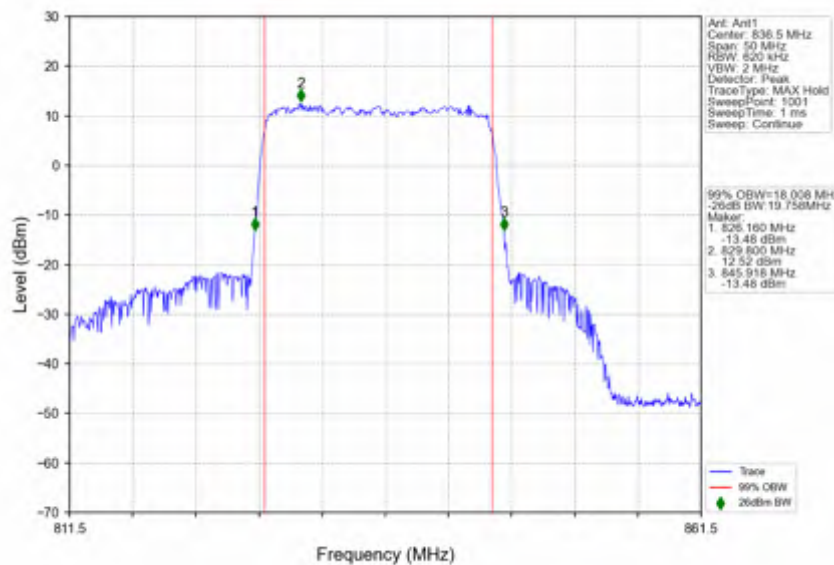


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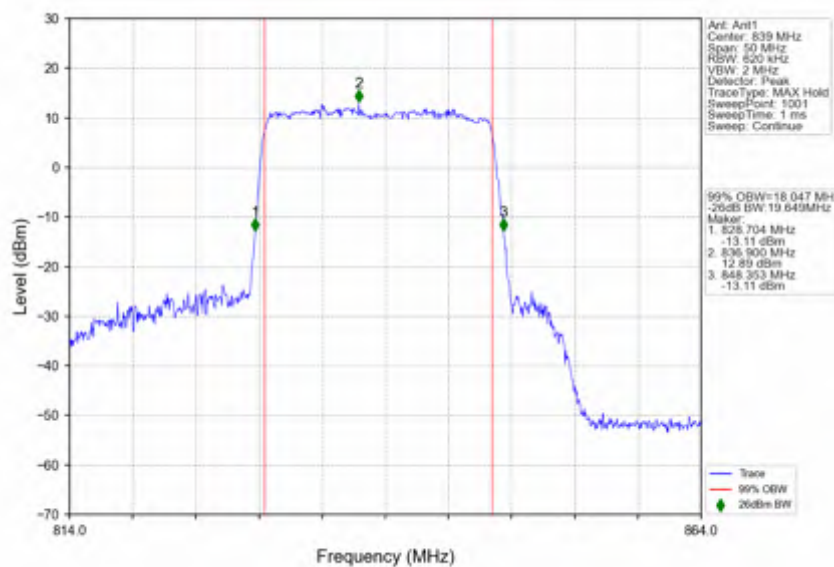
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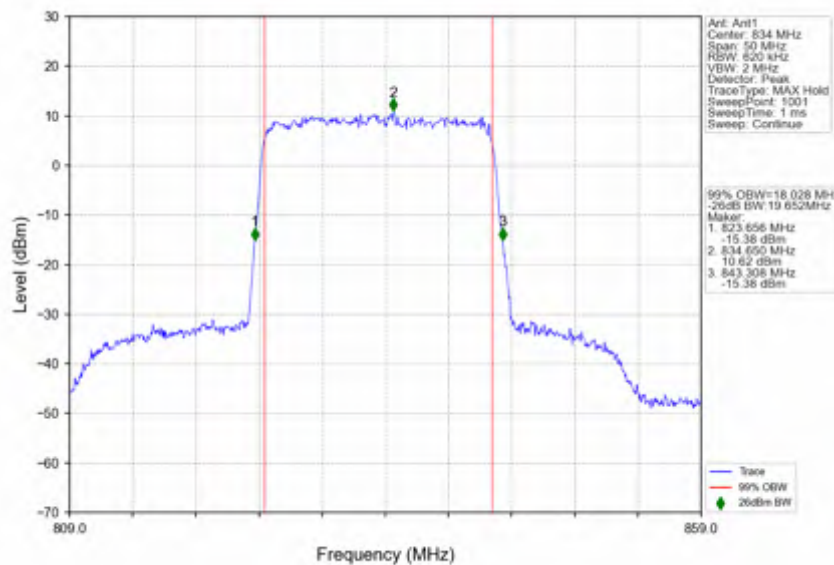


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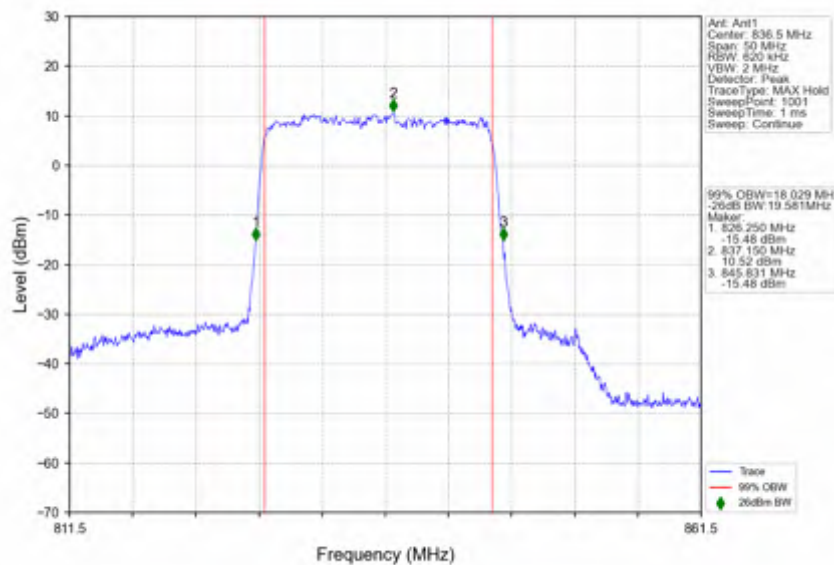
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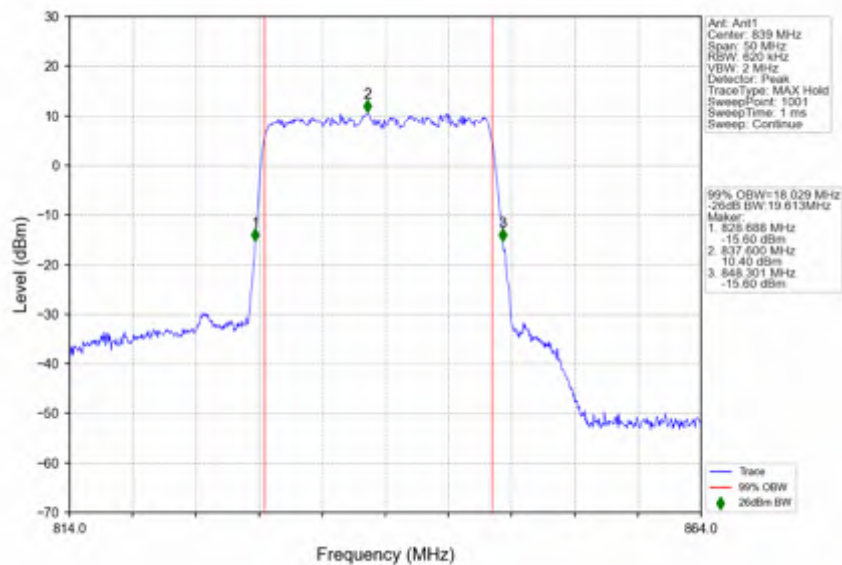
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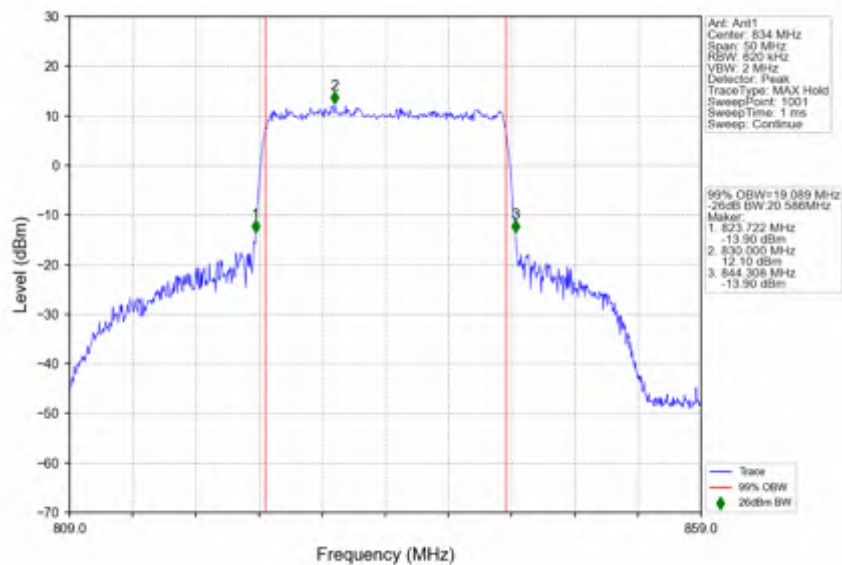
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n5_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM 256 QAM_839MHz_Outer_Full



n5_15kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_834MHz_Outer_Full



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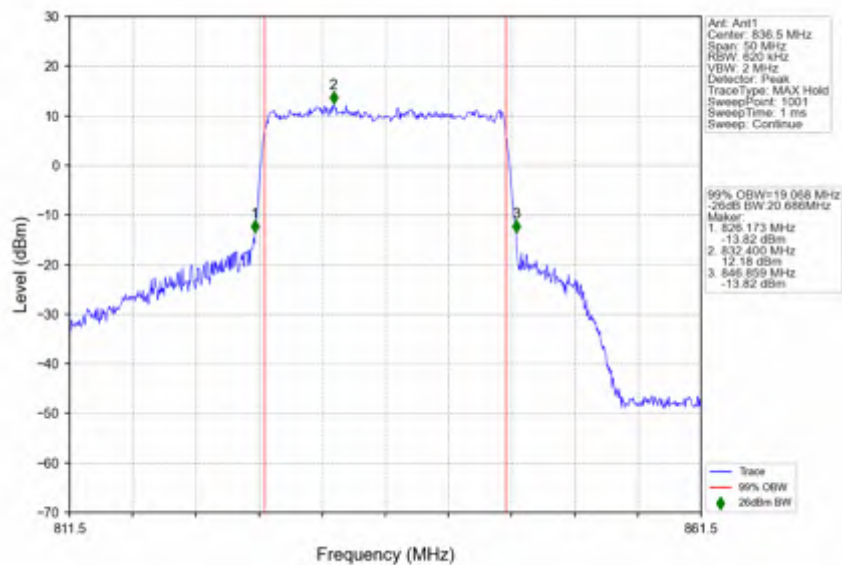
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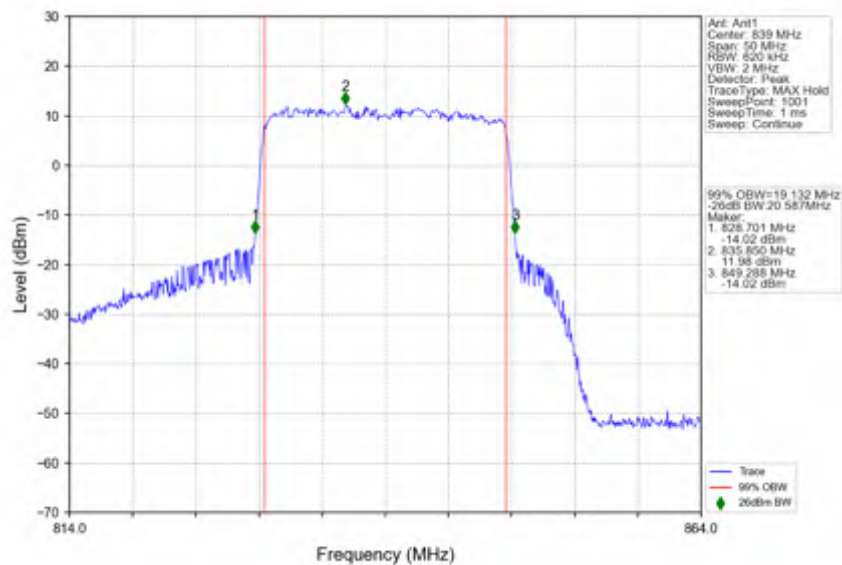
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n5_15kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_836.5MHz_Outer_Full



n5_15kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_839MHz_Outer_Full



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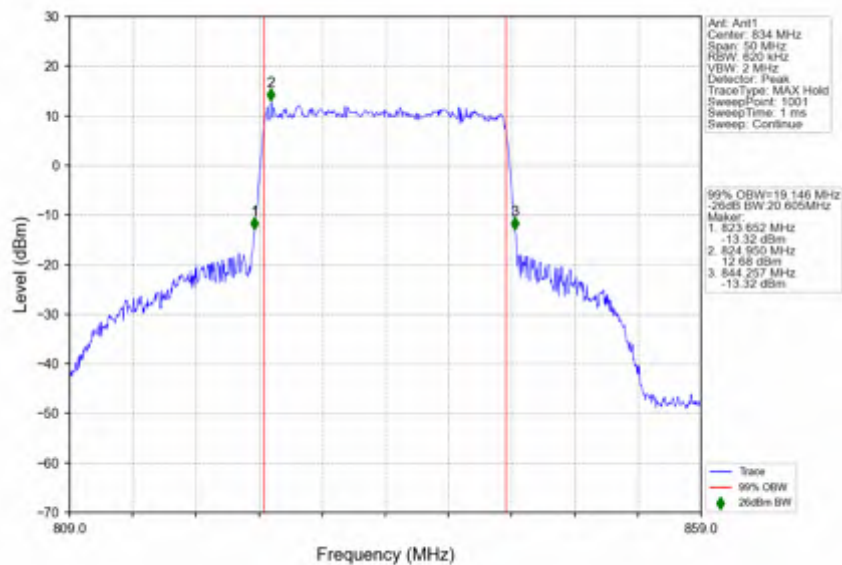
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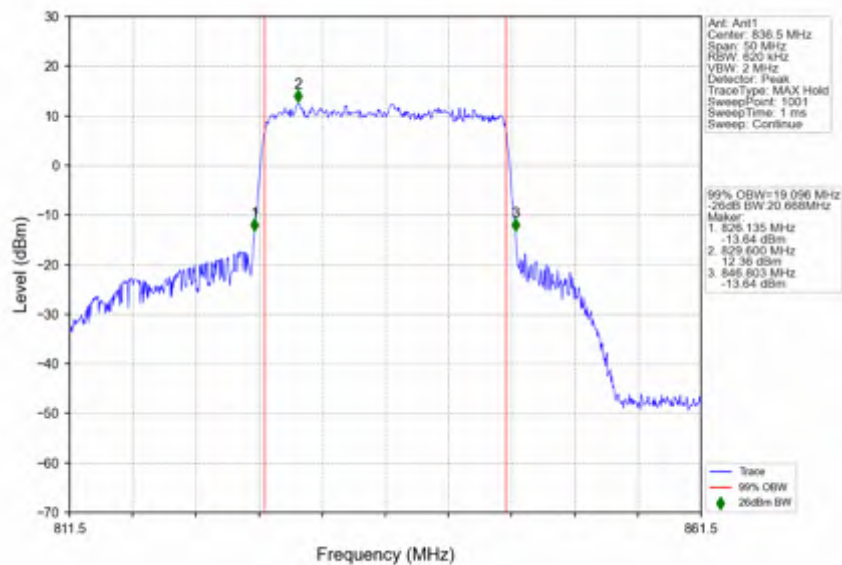
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n5_15kHz_SISO_NTNV_20MHz_CP-OFDM_16_QAM_834MHz_Outer_Full



n5_15kHz_SISO_NTNV_20MHz_CP-OFDM_16_QAM_836.5MHz_Outer_Full



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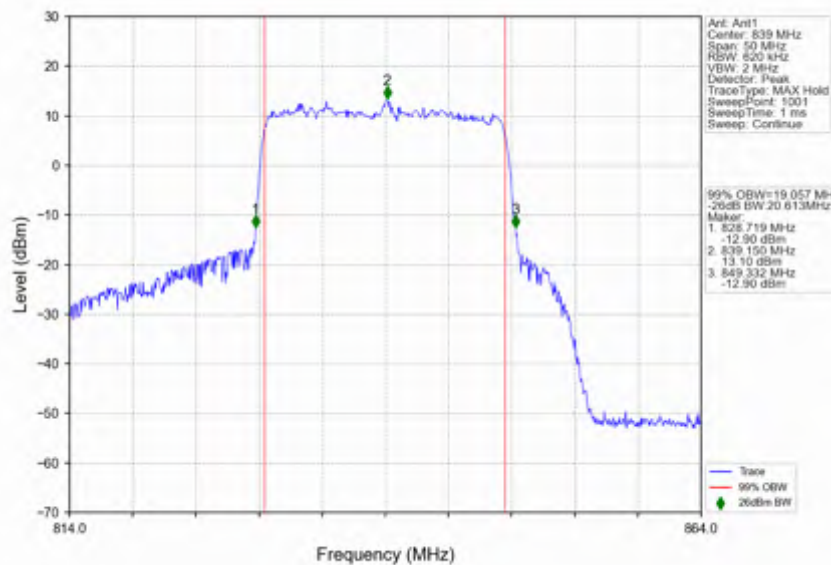
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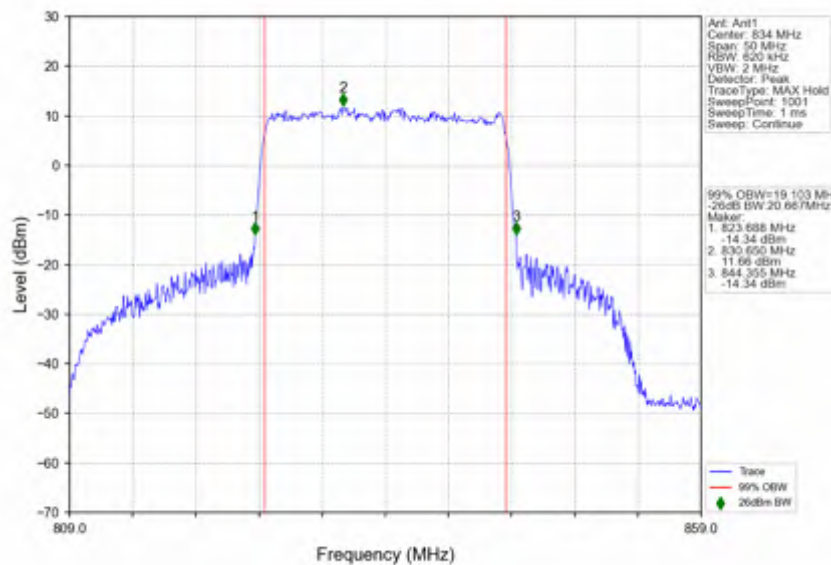
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n5_15kHz_SISO_NTNV_20MHz_CP-OFDM 16 QAM_839MHz_Outer_Full



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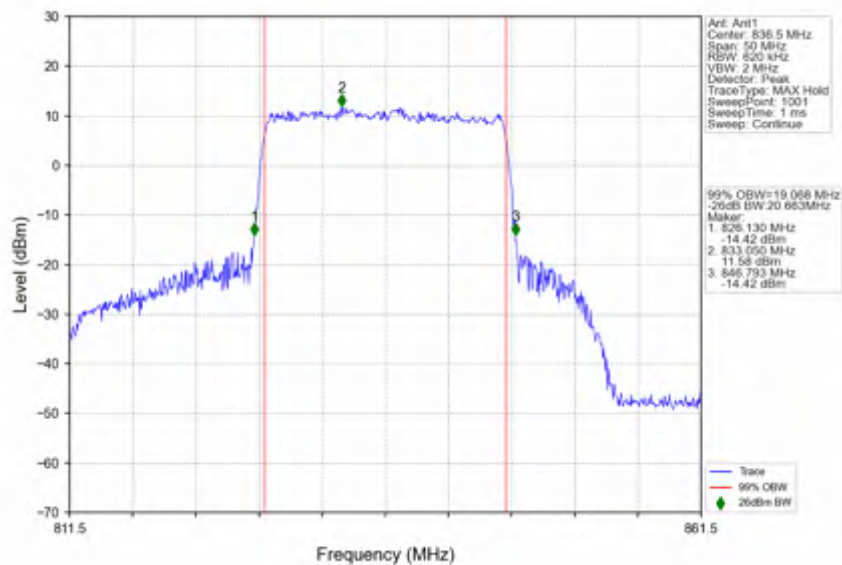
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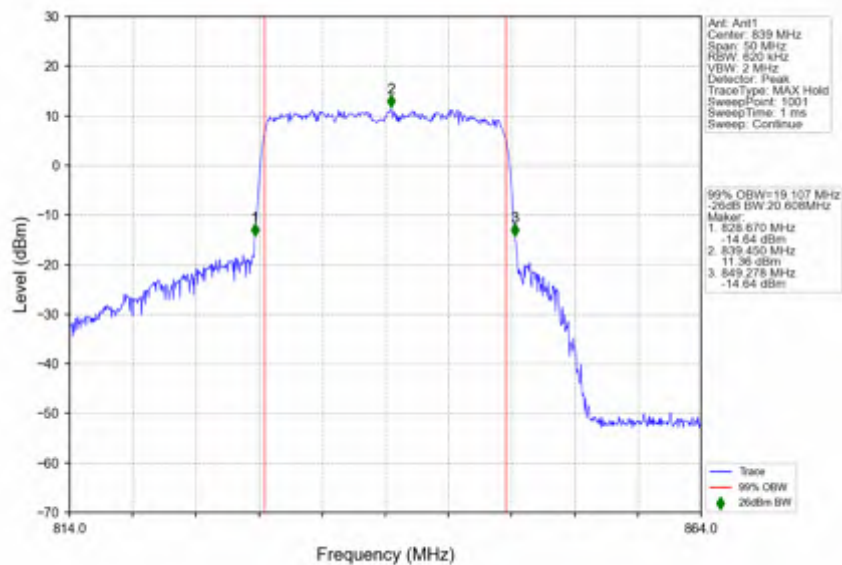
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n5_15kHz_SISO_NTNV_20MHz_CP-OFDM_64_QAM_836.5MHz_Outer_Full



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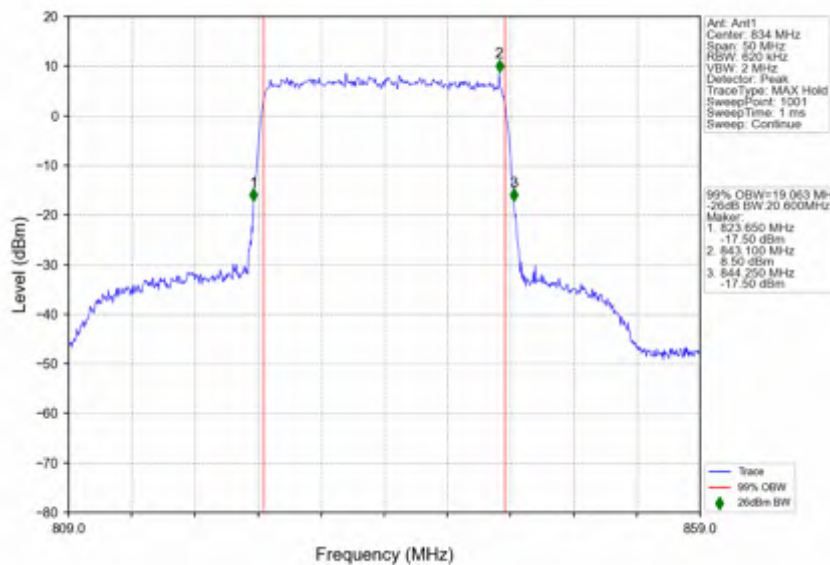


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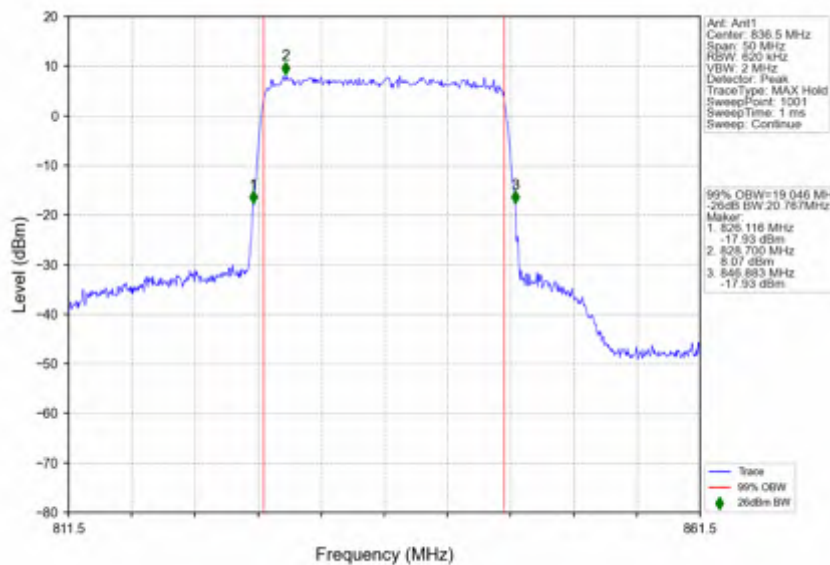
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n5_15kHz_SISO_NTNV_20MHz_CP-OFDM 256 QAM_834MHz_Outer_Full



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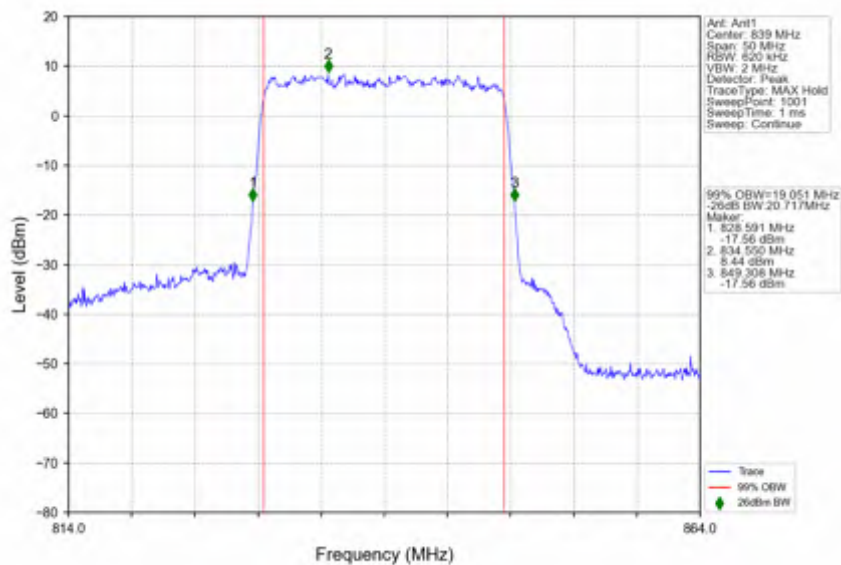
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n5_15kHz_SISO_NTNV_20MHz_CP-OFDM 256 QAM_839MHz_Outer_Full



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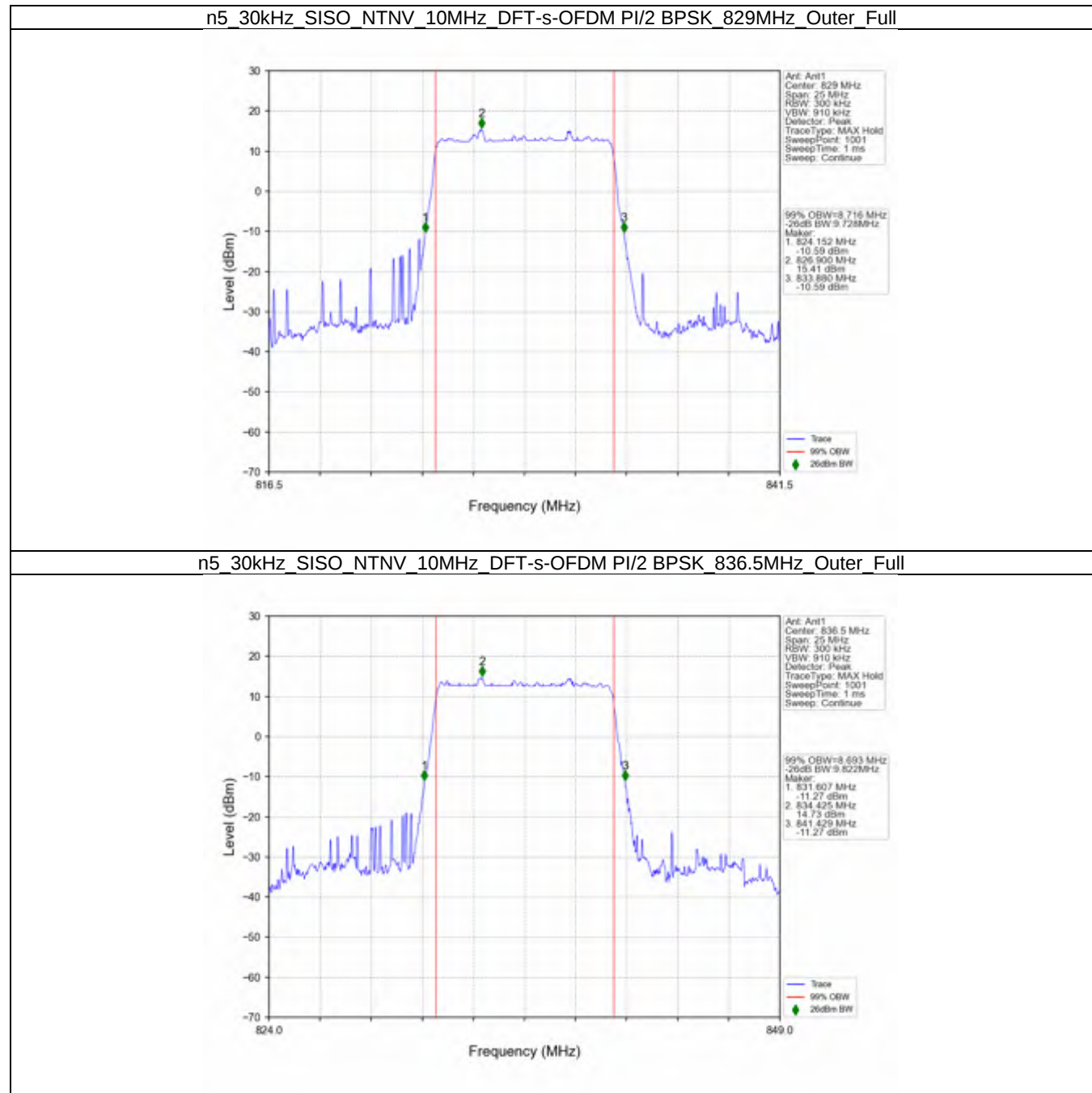
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2.5 30k_SISO_10MHz_NTNV

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



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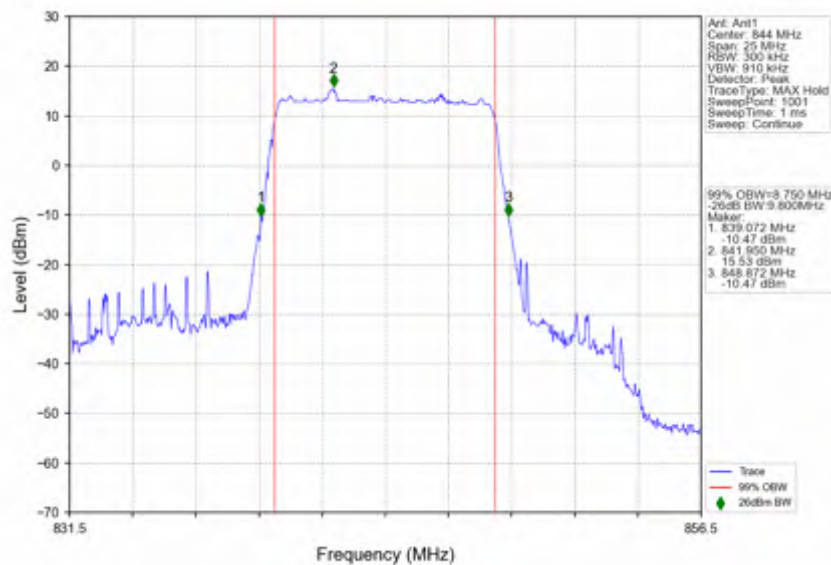
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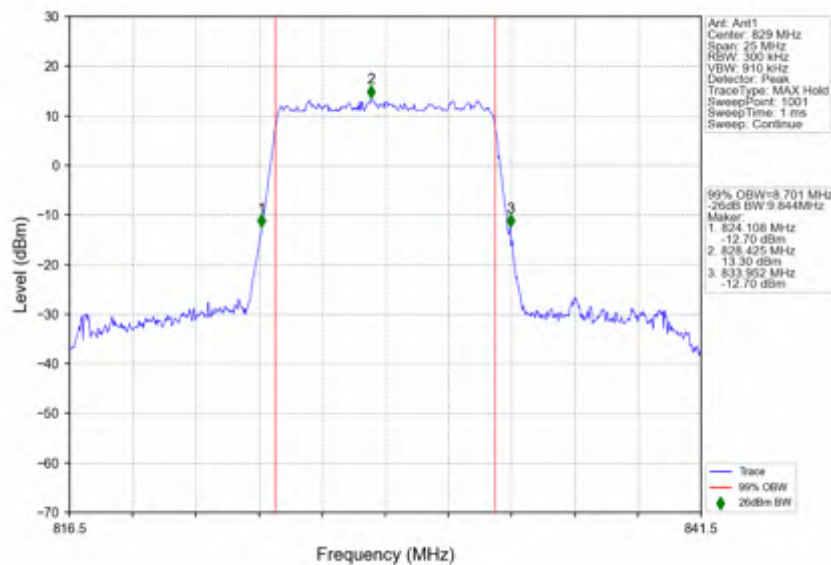
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n5_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_844MHz_Outer_Full



n5_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_829MHz_Outer_Full



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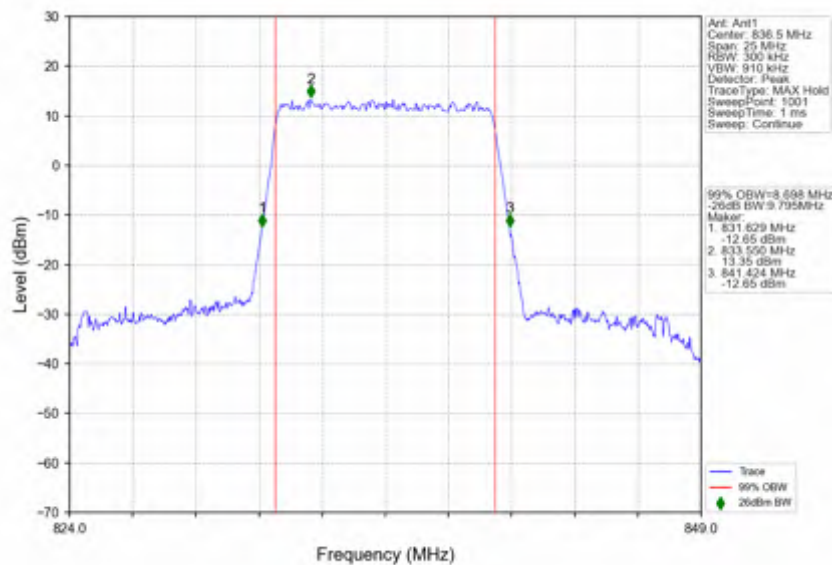
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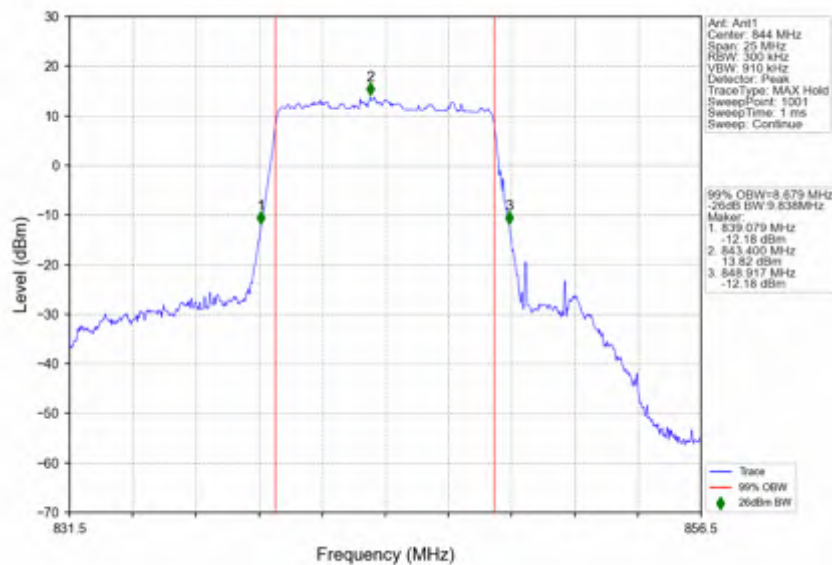
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n5_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_836.5MHz_Outer_Full



n5_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_844MHz_Outer_Full



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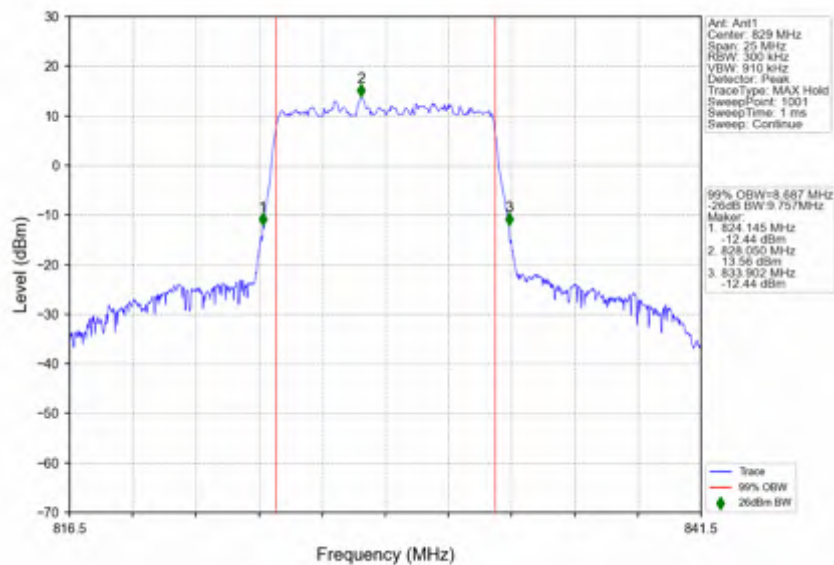
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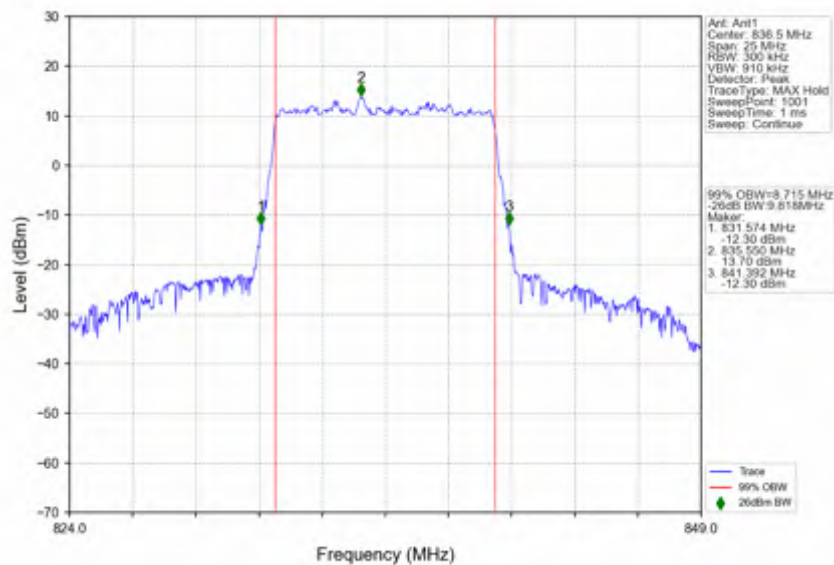
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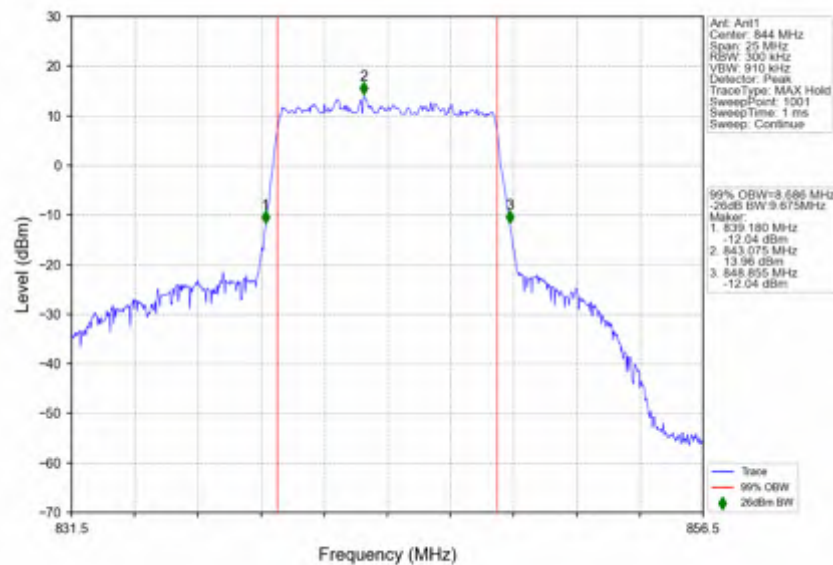
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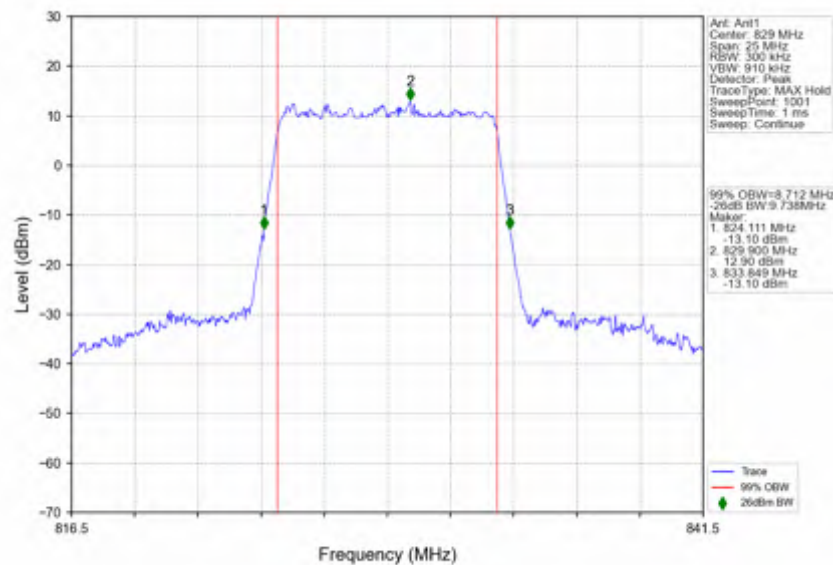
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n5_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 64 QAM_829MHz_Outer_Full



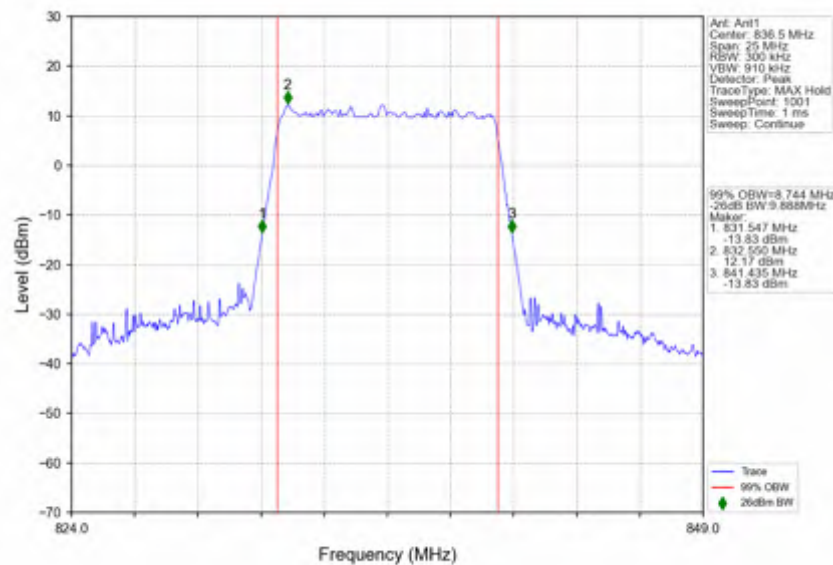
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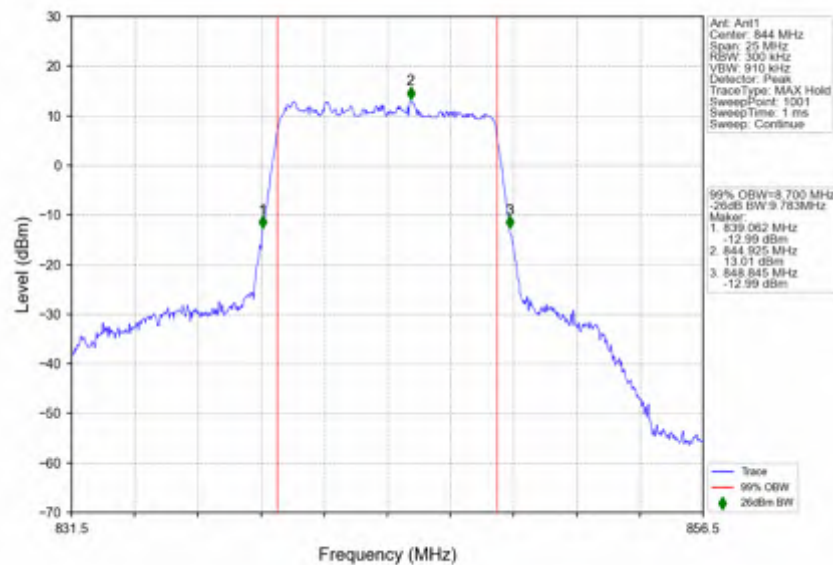
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n5_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 64 QAM_836.5MHz_Outer_Full



n5_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 64 QAM_844MHz_Outer_Full



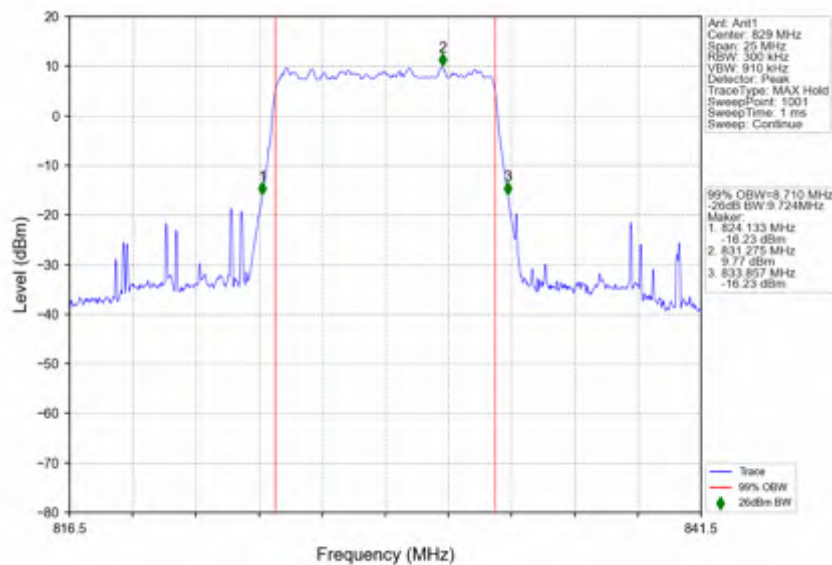
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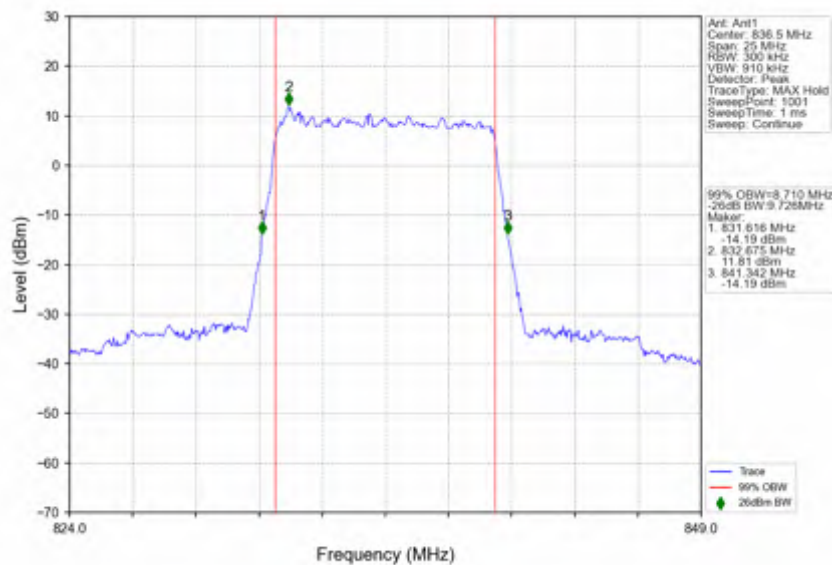
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n5_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_256_QAM_829MHz_Outer_Full



n5_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_256_QAM_836.5MHz_Outer_Full



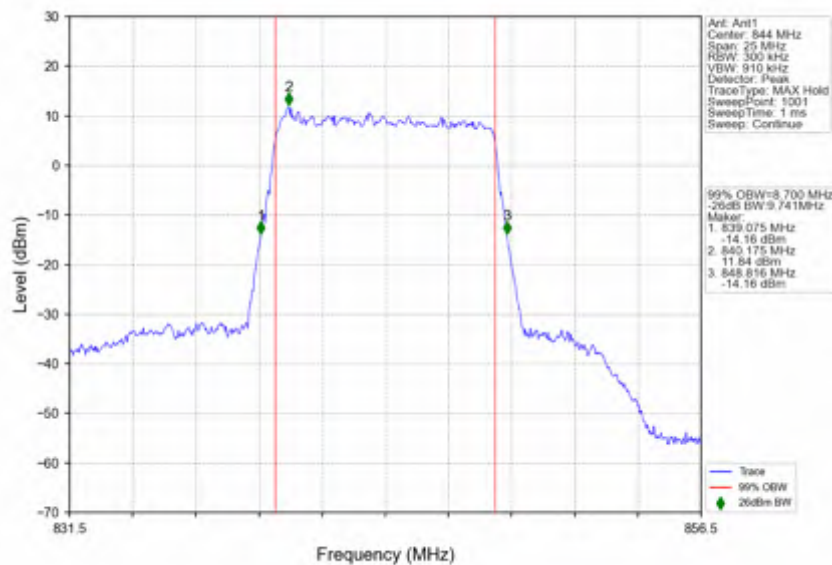
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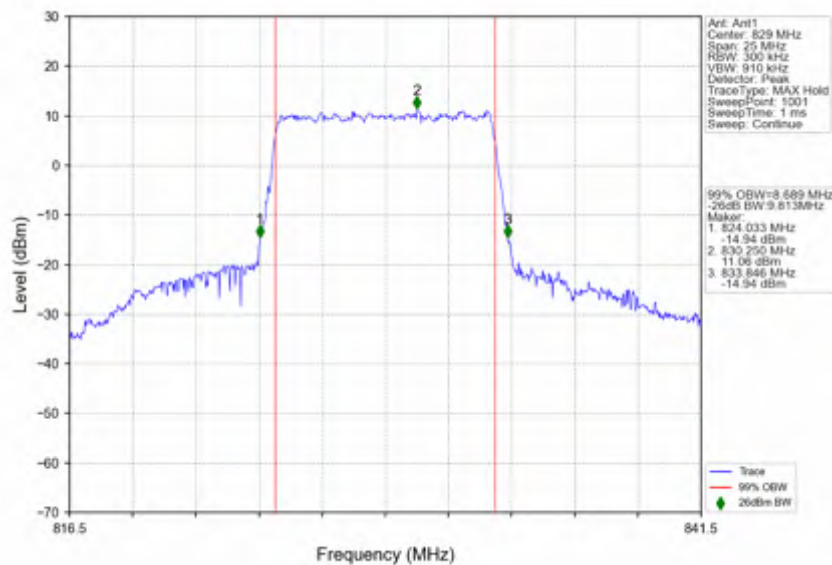
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n5 30kHz SISO NTNv 10MHz DFT-s-OFDM 256 QAM 844MHz Outer Full



n5_30kHz_SISO_NTNV_10MHz_CP-OFDM_QPSK_829MHz_Outer_Full

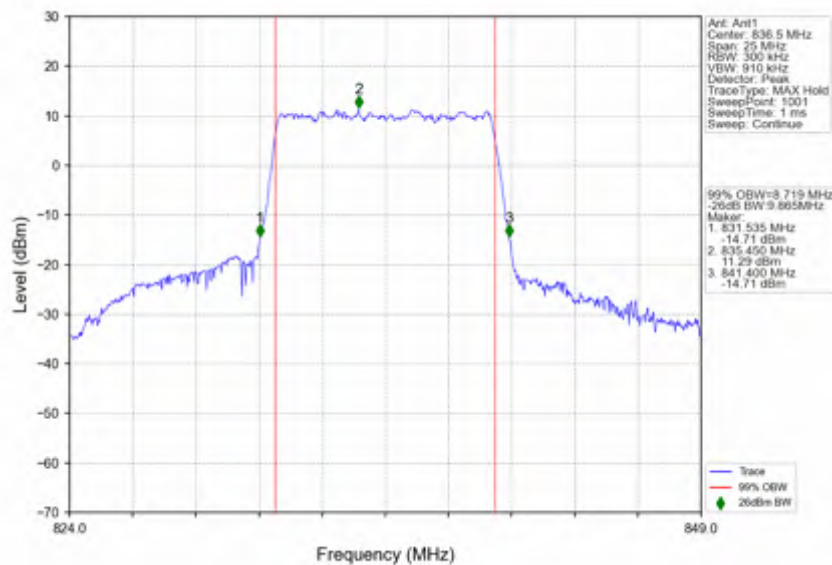


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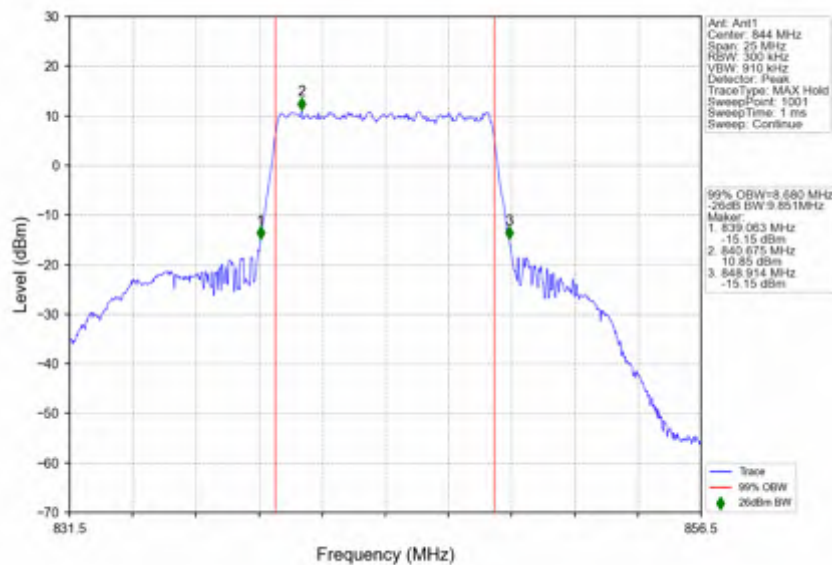
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n5_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_836.5MHz_Outer_Full



n5_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_844MHz_Outer_Full



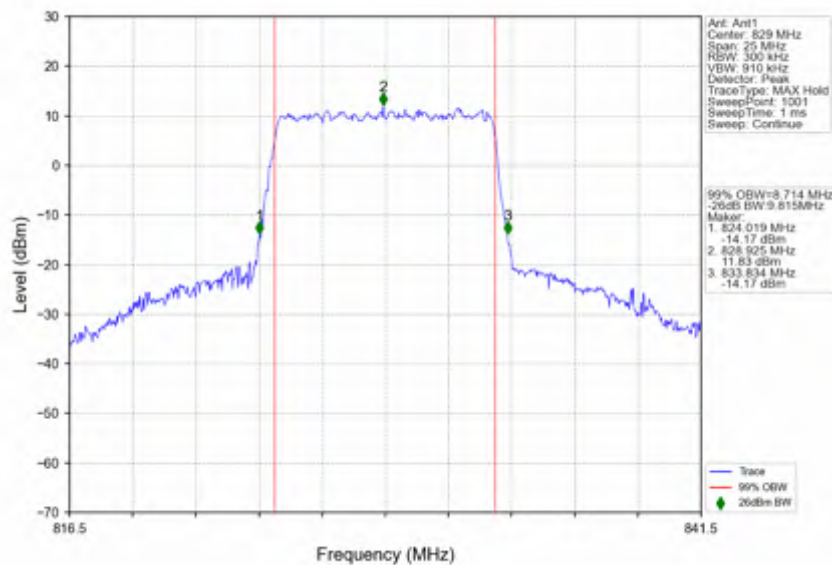
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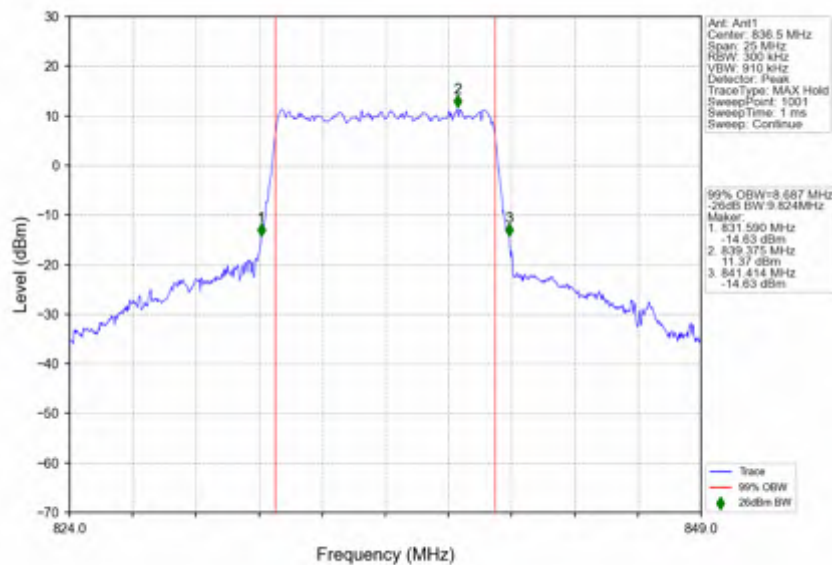
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n5_30kHz_SISO_NTNV_10MHz_CP-OFDM 16 QAM_829MHz_Outer_Full



n5_30kHz_SISO_NTNV_10MHz_CP-OFDM 16 QAM_836.5MHz_Outer_Full



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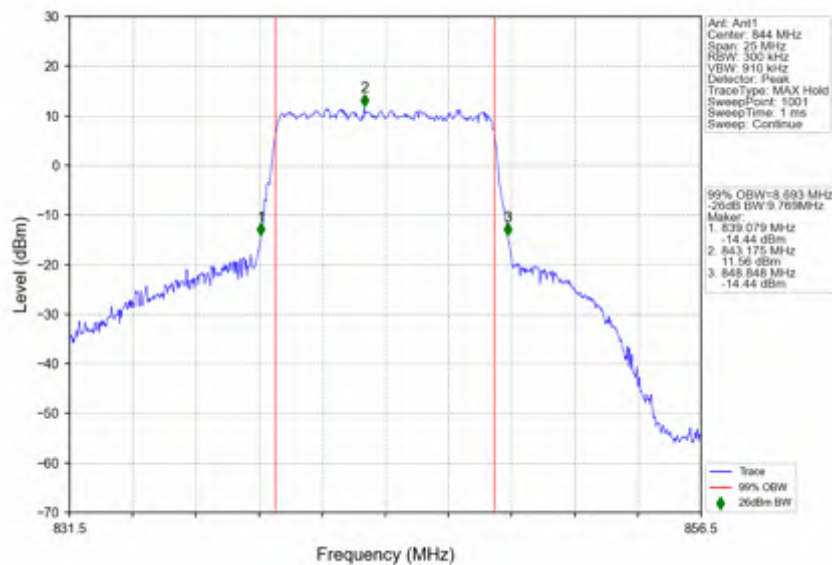
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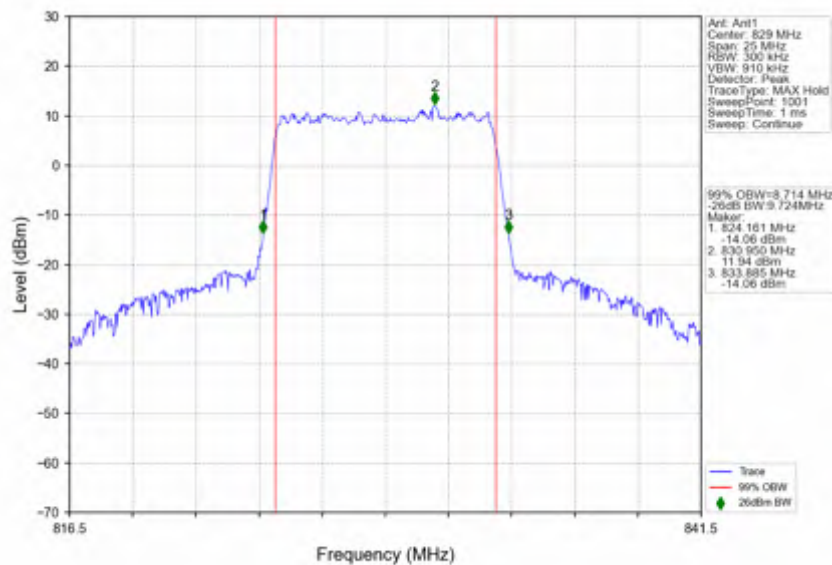
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n5_30kHz_SISO_NTNV_10MHz_CP-OFDM 16 QAM_844MHz_Outer_Full



n5_30kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_829MHz_Outer_Full



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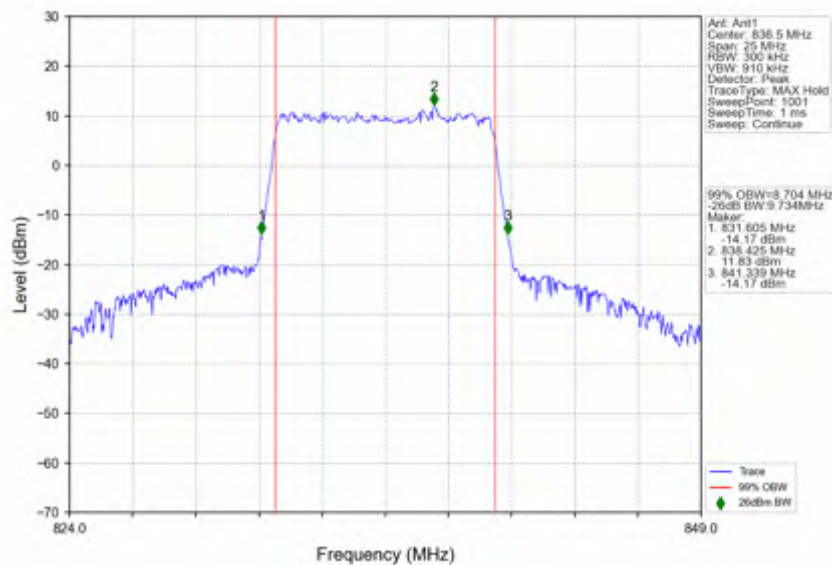
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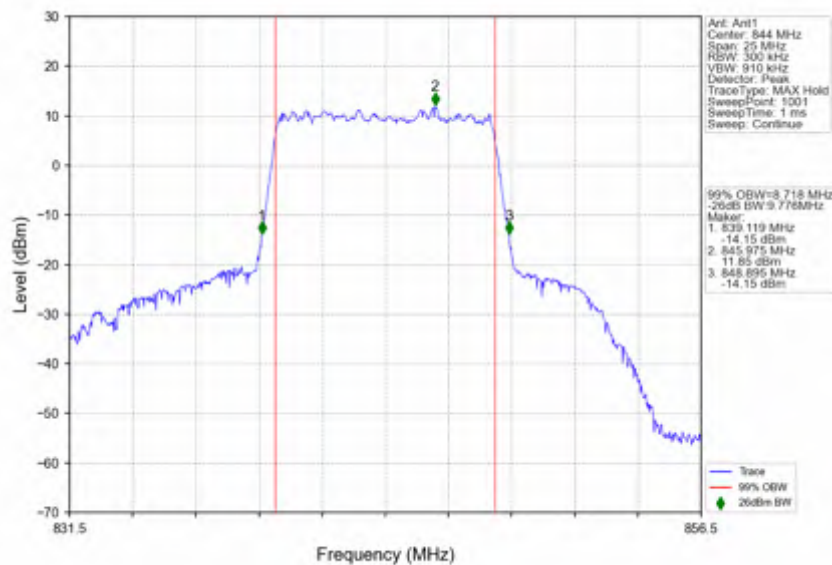
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n5_30kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_836.5MHz_Outer_Full



n5_30kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_844MHz_Outer_Full



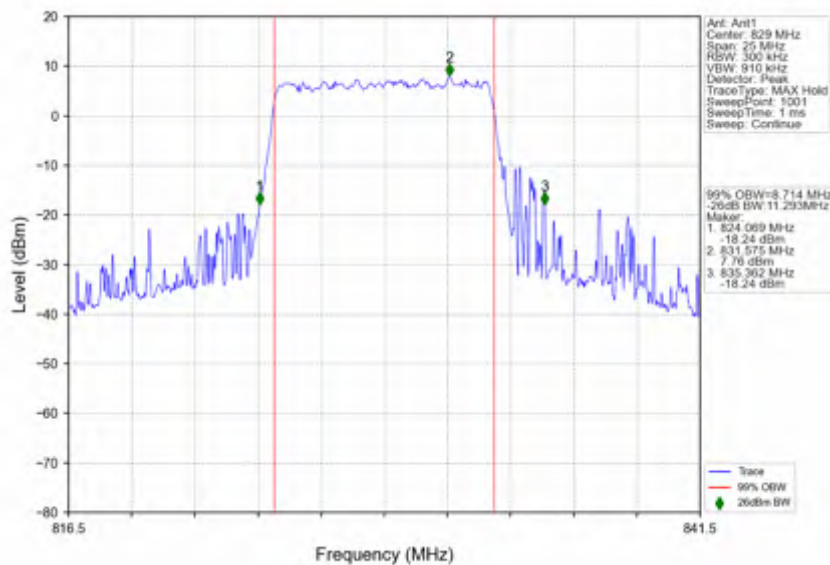
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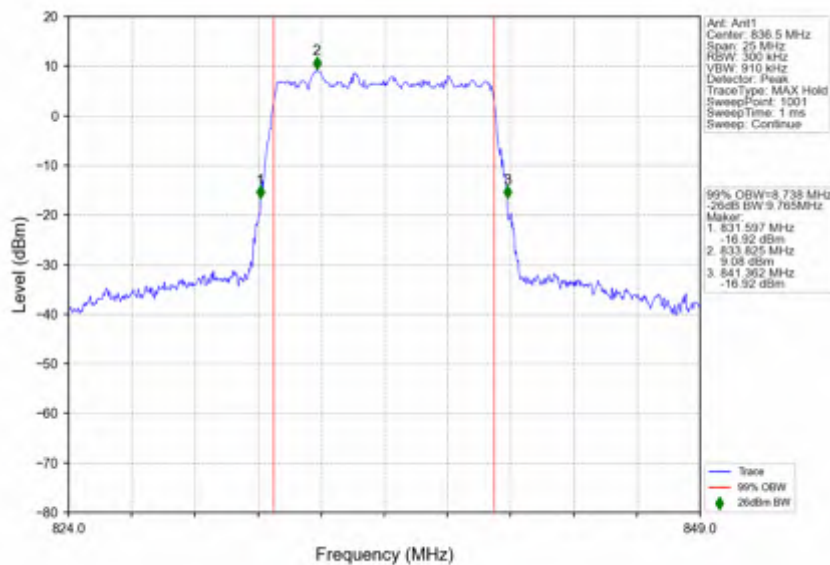
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n5_30kHz_SISO_NTNV_10MHz_CP-OFDM 256 QAM_829MHz_Outer_Full



n5_30kHz_SISO_NTNV_10MHz_CP-OFDM 256 QAM_836.5MHz_Outer_Full



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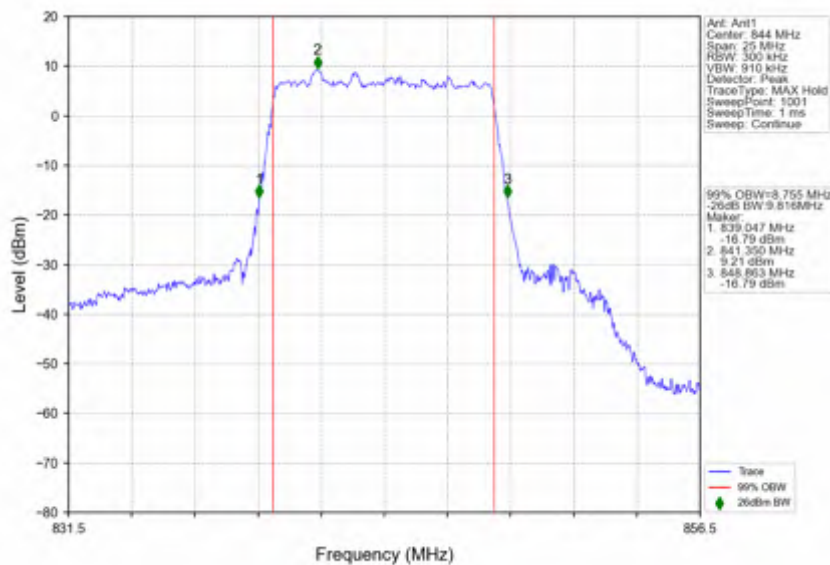
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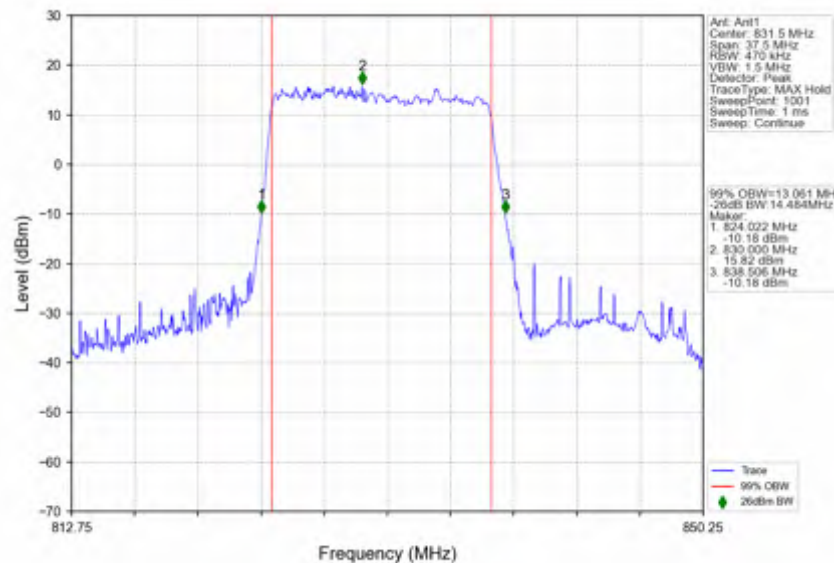
2.6 30k_SISO_15MHz_NTNV

2.6.1 Test Result

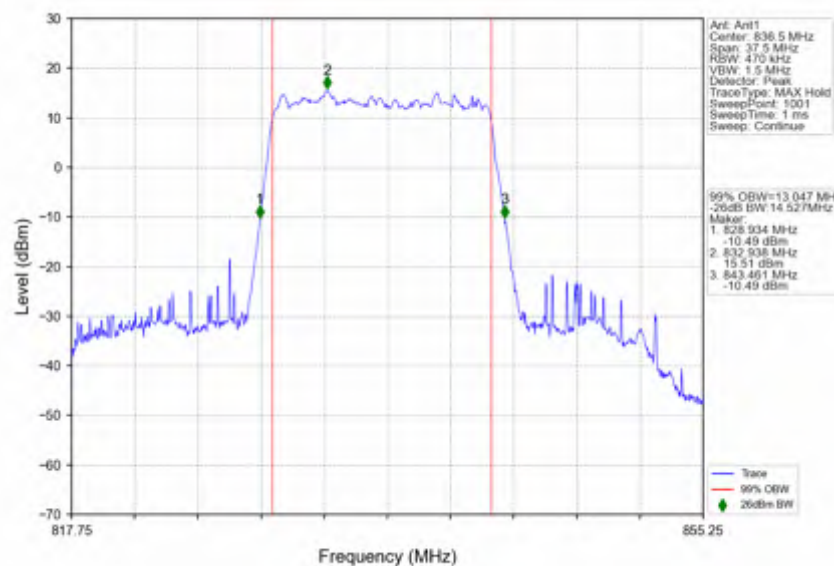
5G NR n5 SCS=30kHz SISO 15MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	831.5	Outer_Full	13.06	14.48	/	Pass
	836.5	Outer_Full	13.05	14.53	/	Pass
	841.5	Outer_Full	13.02	14.48	/	Pass
DFT-s-OFDM QPSK	831.5	Outer_Full	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

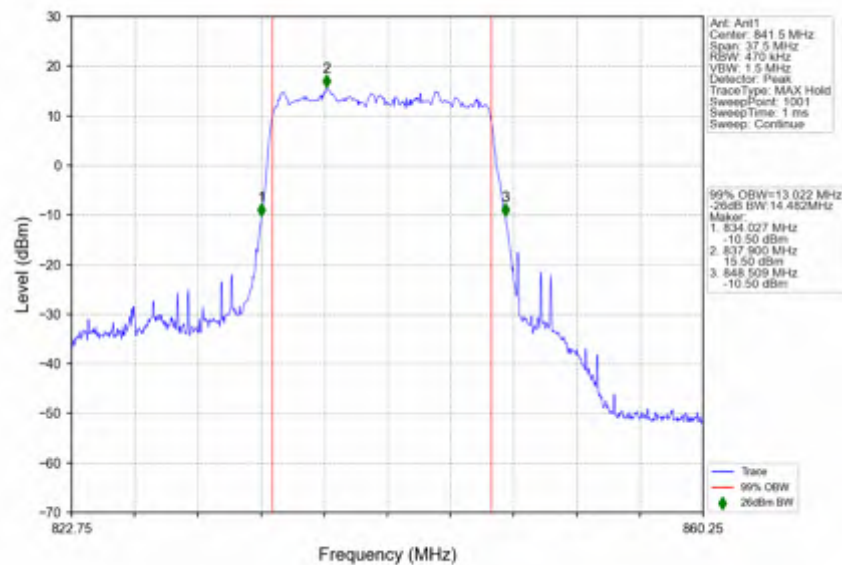


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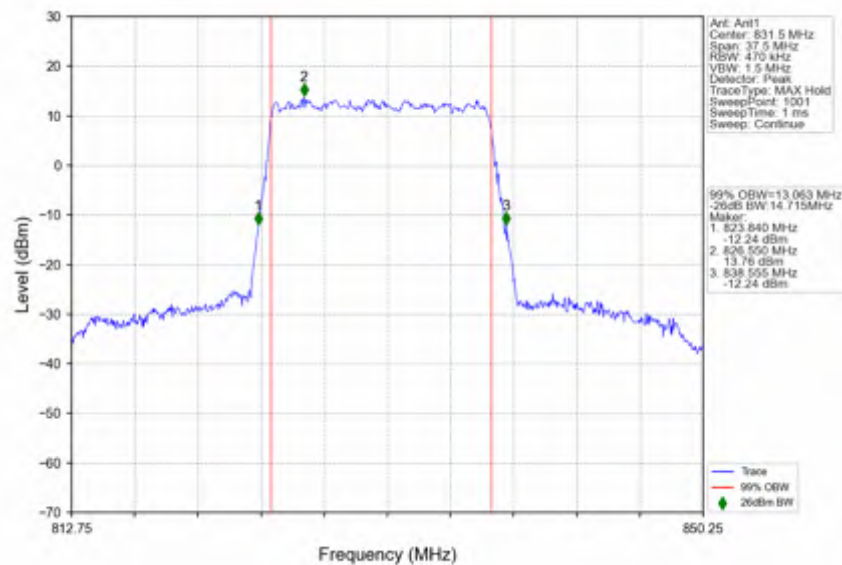
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n5_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_841.5MHz_Outer_Full



n5_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_831.5MHz_Outer_Full



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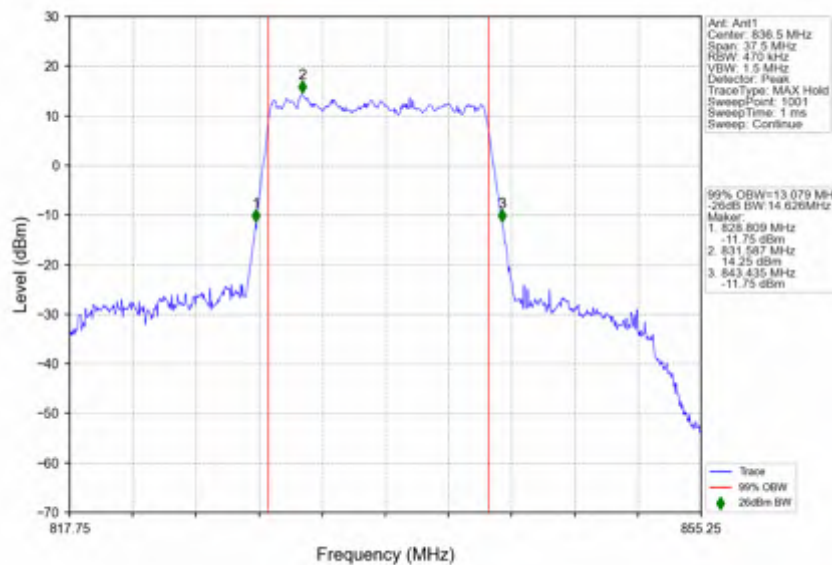
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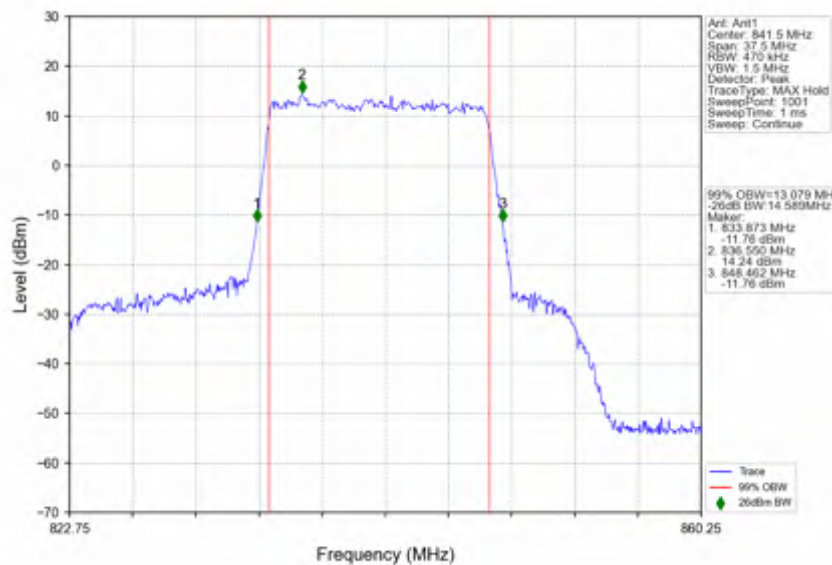
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n5_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM_QPSK_836.5MHz_Outer_Full



n5_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM_QPSK_841.5MHz_Outer_Full



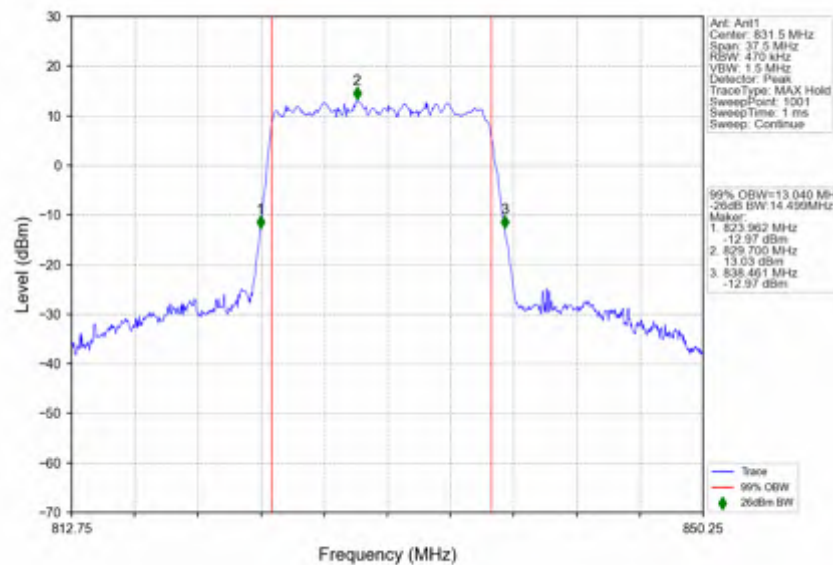
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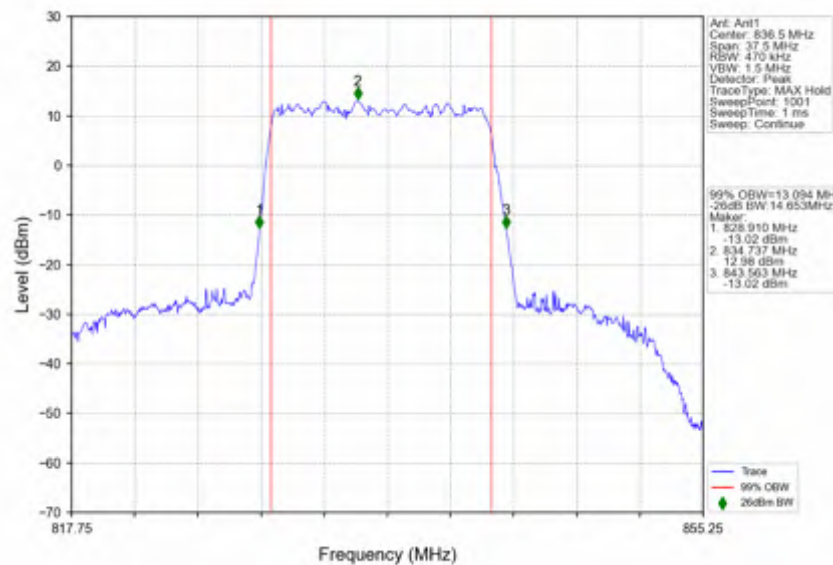
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n5_30kHz_SISO_NTV_15MHz_DFT-s-OFDM_16_QAM_831.5MHz_Outer_Full



n5_30kHz_SISO_NTV_15MHz_DFT-s-OFDM_16_QAM_836.5MHz_Outer_Full



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