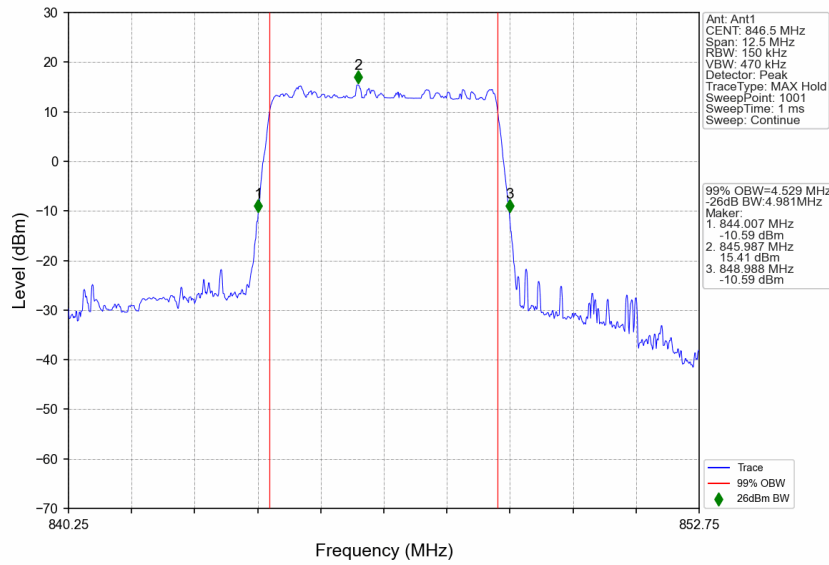
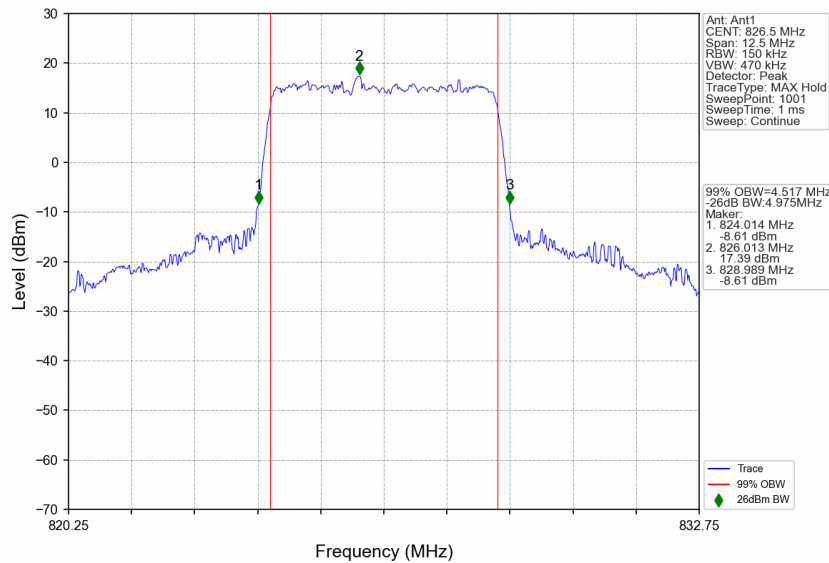


n5_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM 256 QAM_846.5MHz_Outer_Full



n5_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_826.5MHz_Outer_Full

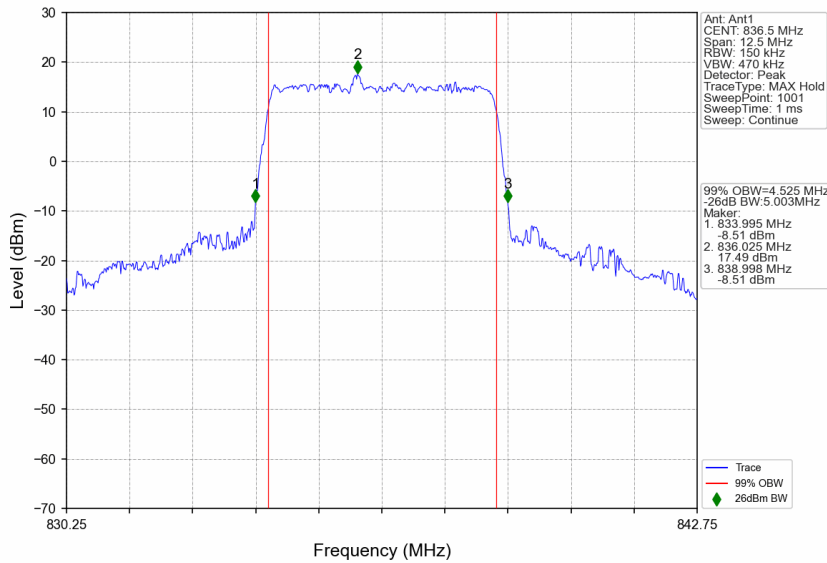


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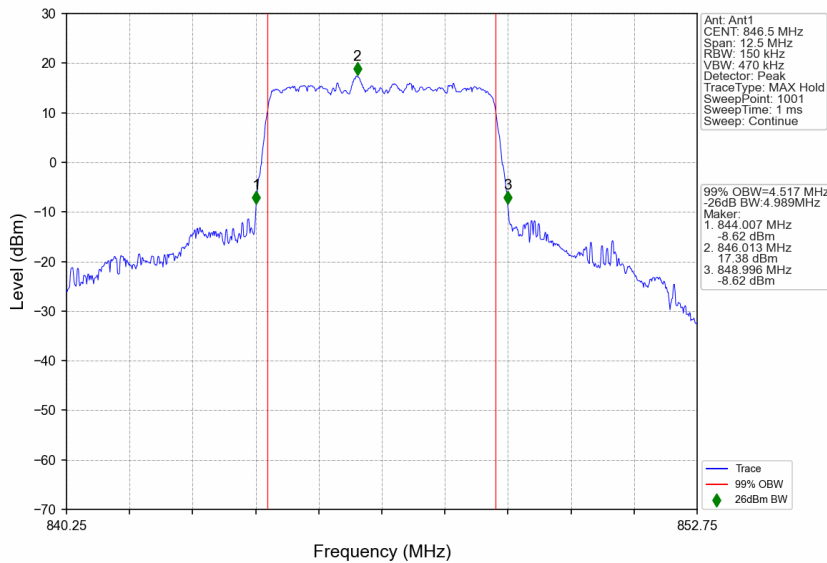
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n5_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_836.5MHz_Outer_Full



n5_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_846.5MHz_Outer_Full

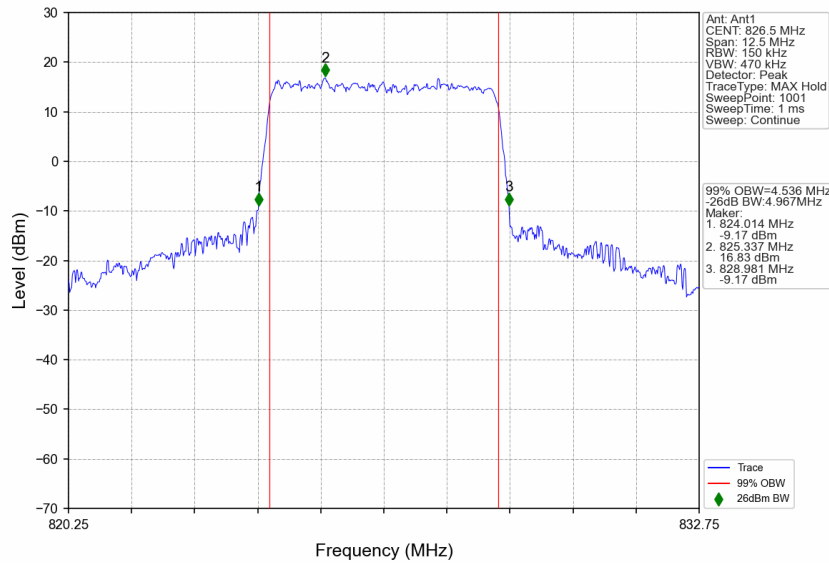


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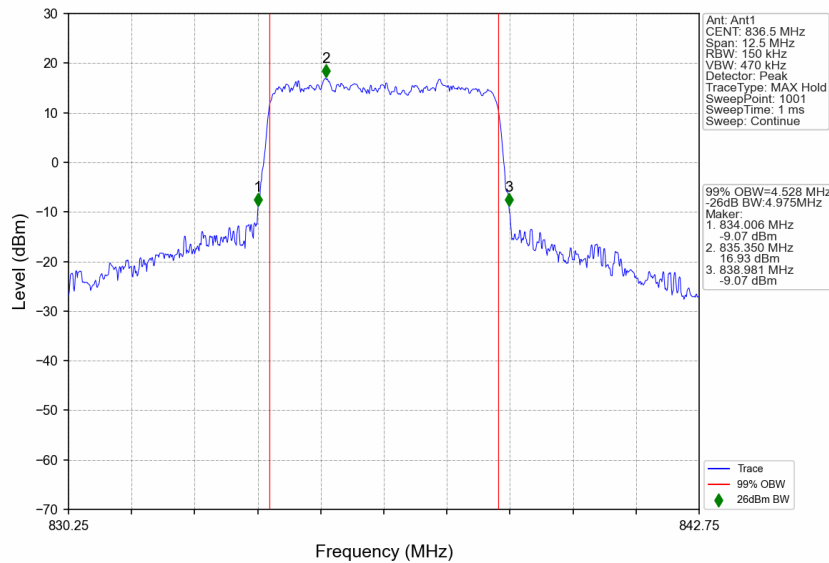
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n5_15kHz_SISO_NTNV_5MHz_CP-OFDM 16 QAM_826.5MHz_Outer_Full



n5_15kHz_SISO_NTNV_5MHz_CP-OFDM 16 QAM_836.5MHz_Outer_Full

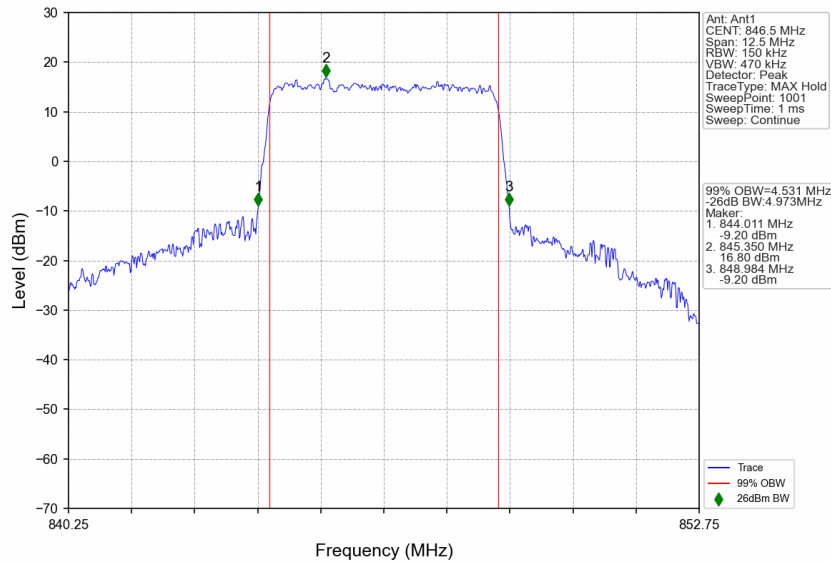


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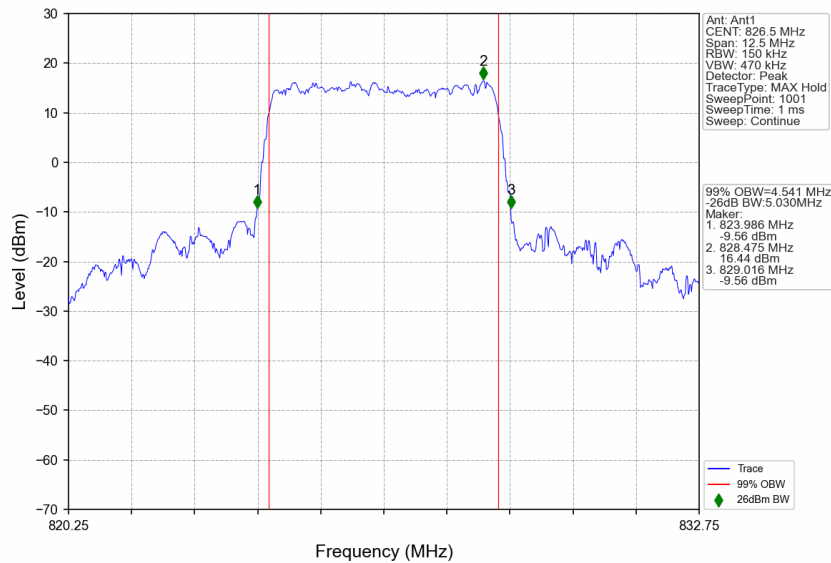
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n5_15kHz_SISO_NTNV_5MHz_CP-OFDM 16 QAM_846.5MHz_Outer_Full



n5_15kHz_SISO_NTNV_5MHz_CP-OFDM 64 QAM_826.5MHz_Outer_Full

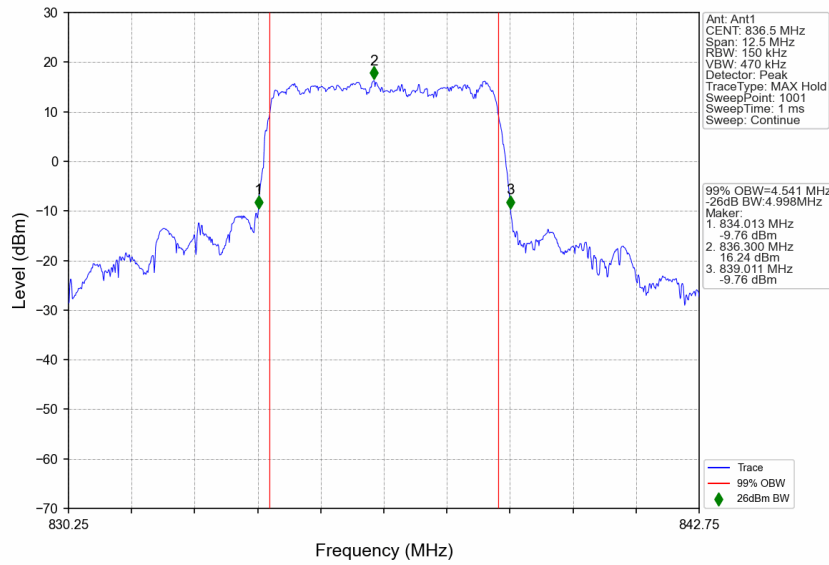


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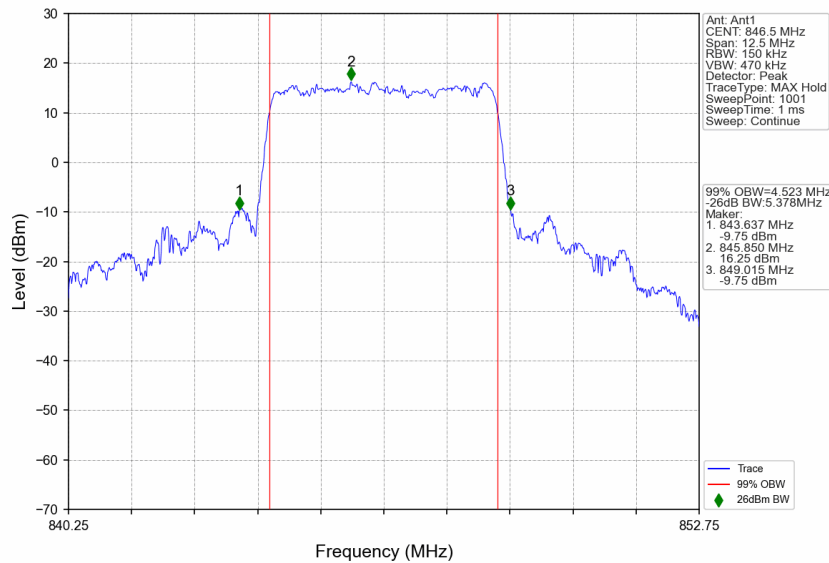
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n5_15kHz_SISO_NTNV_5MHz_CP-OFDM 64 QAM_836.5MHz_Outer_Full



n5_15kHz_SISO_NTNV_5MHz_CP-OFDM 64 QAM_846.5MHz_Outer_Full



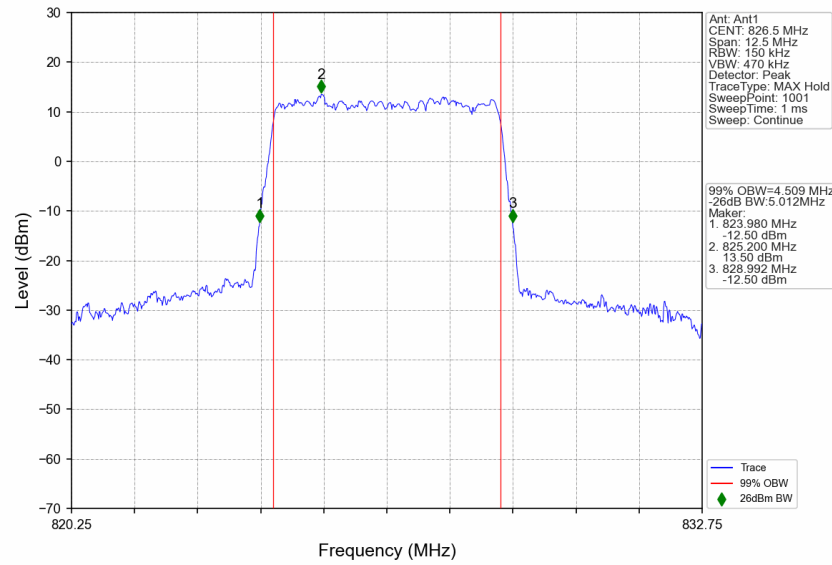
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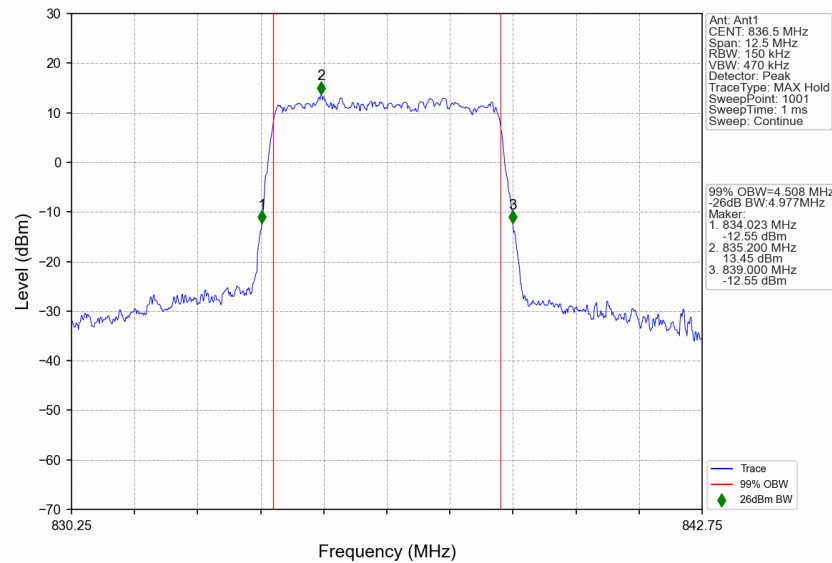
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n5_15kHz_SISO_NTNV_5MHz_CP-OFDM 256 QAM_826.5MHz_Outer_Full



n5_15kHz_SISO_NTNV_5MHz_CP-OFDM 256 QAM_836.5MHz_Outer_Full

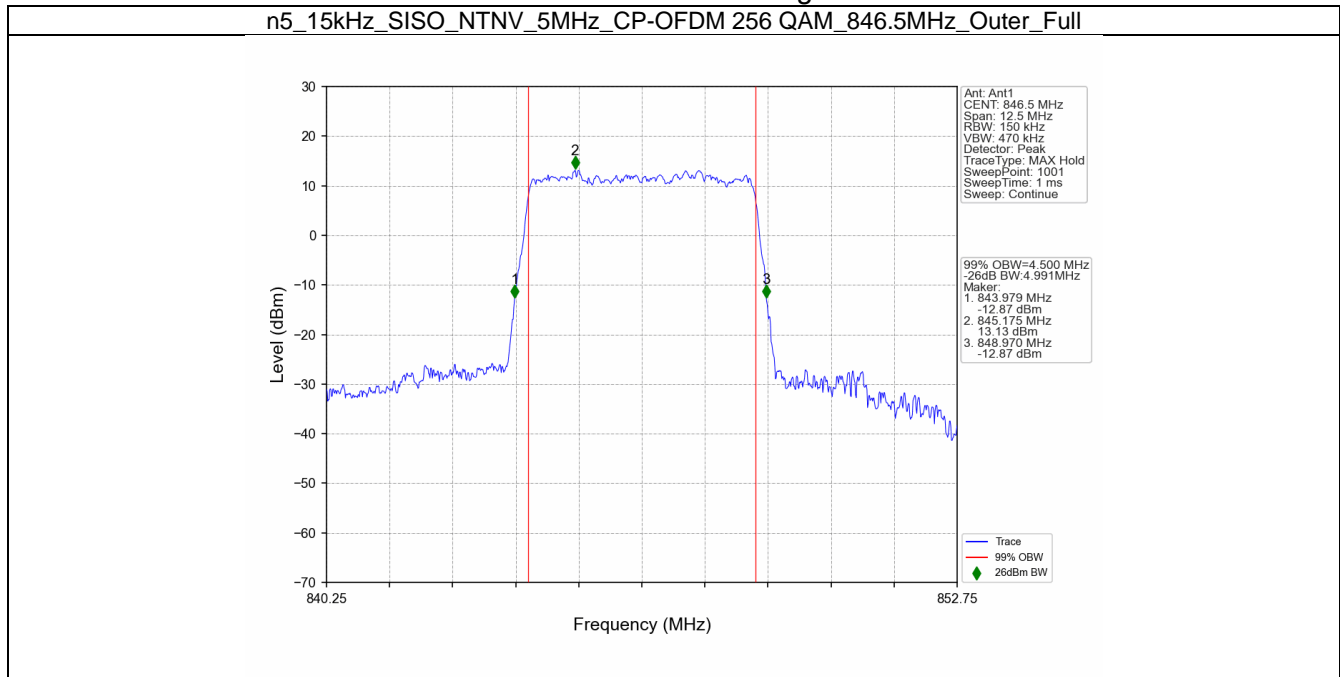


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n5_15kHz_SISO_NTNV_5MHz_CP-OFDM 256 QAM_846.5MHz_Outer_Full



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4.2 15k_SISO_10MHz_NTNV

4.2.1 Test Result

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

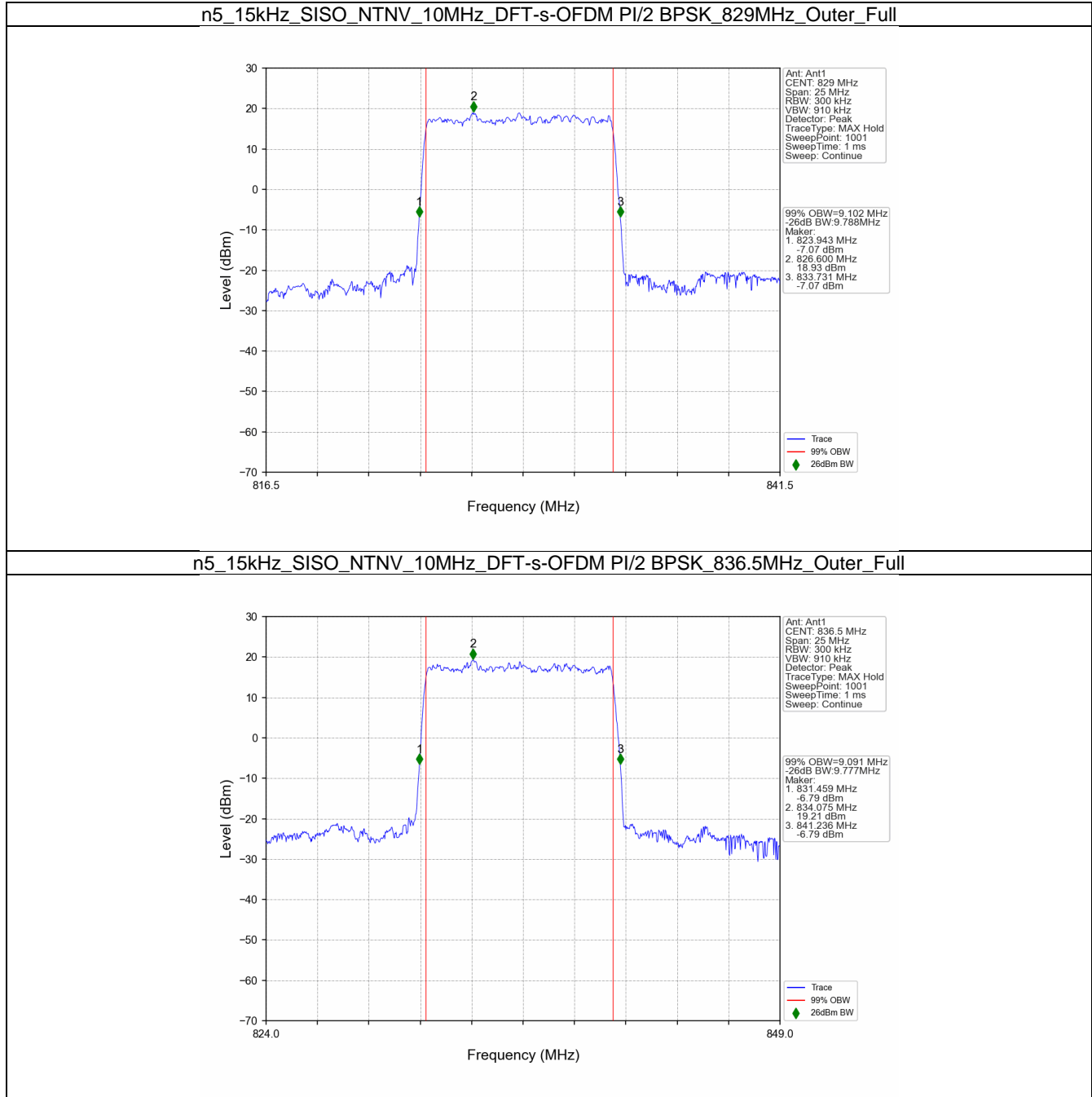


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4.2.2 Test Graph

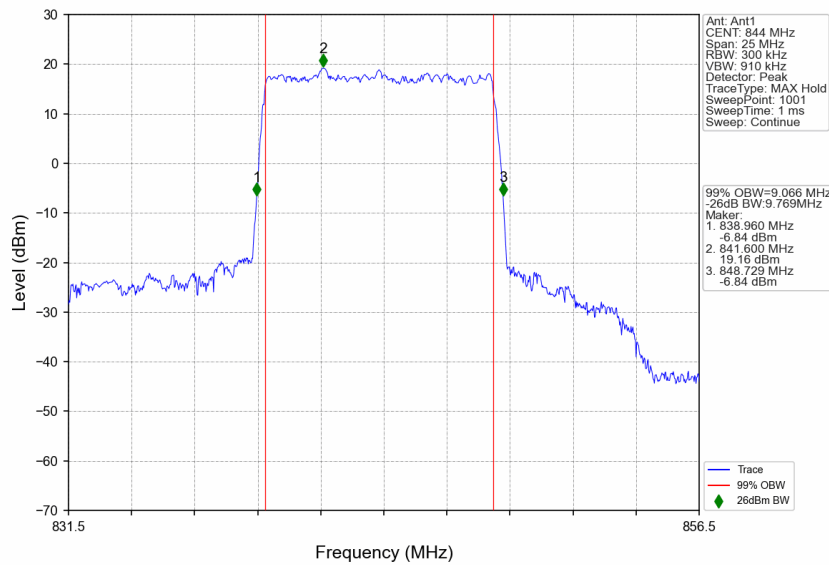


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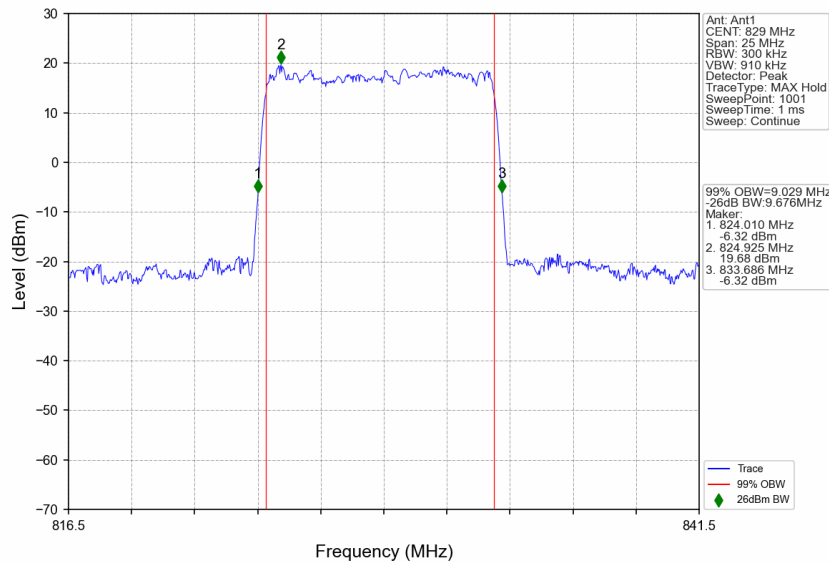
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n5_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_829MHz_Outer_Full

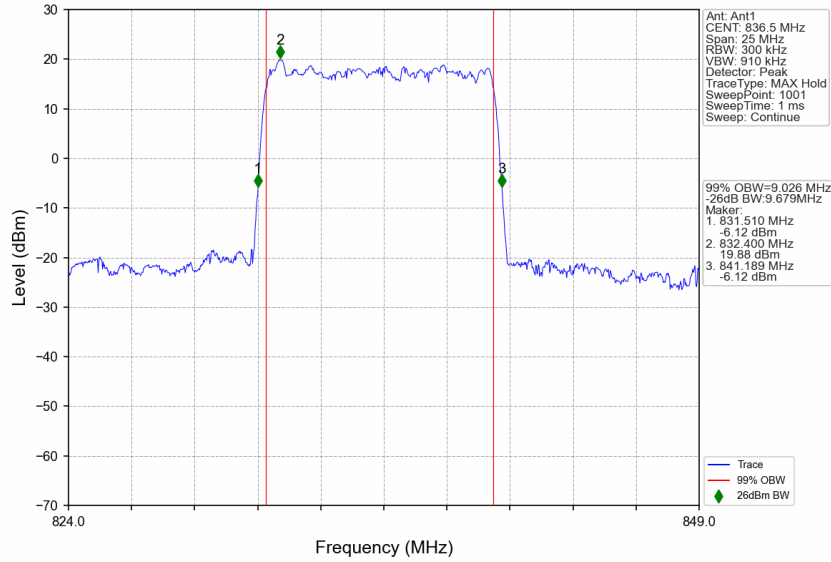


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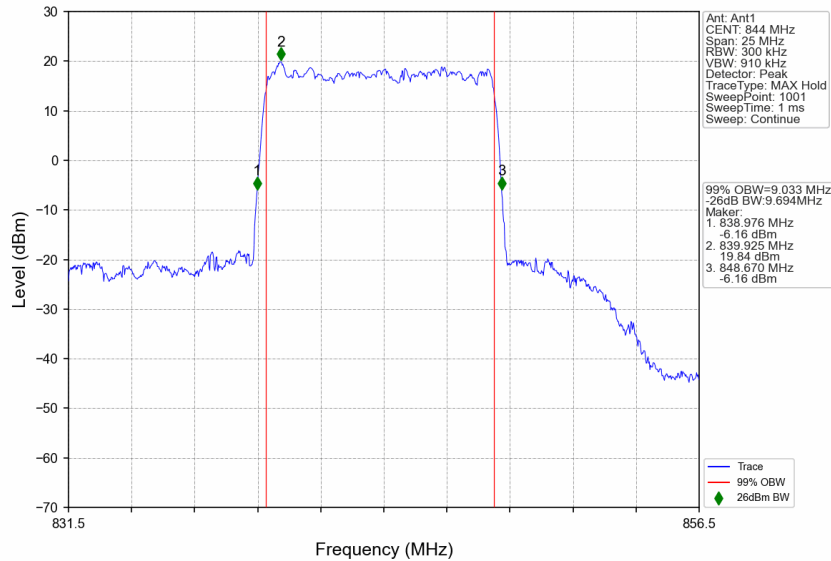
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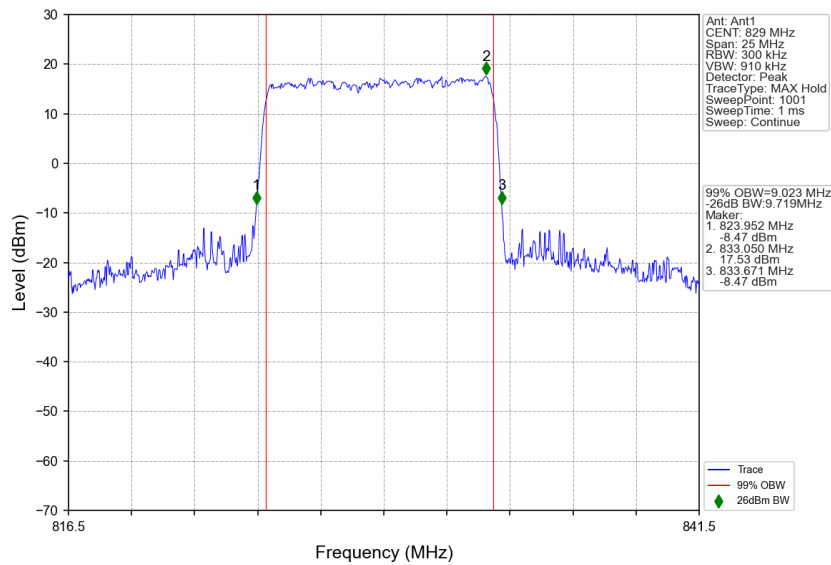
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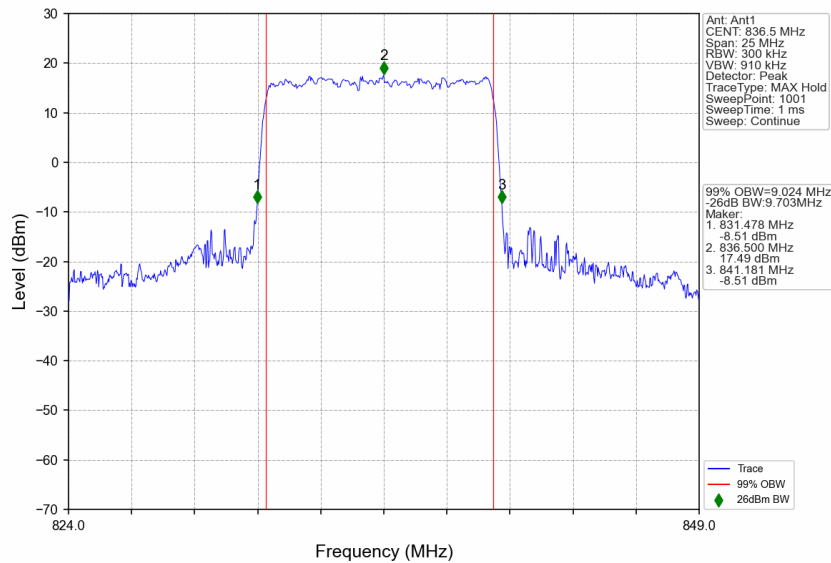
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n5_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 16 QAM_829MHz_Outer_Full



n5_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 16 QAM_836.5MHz_Outer_Full

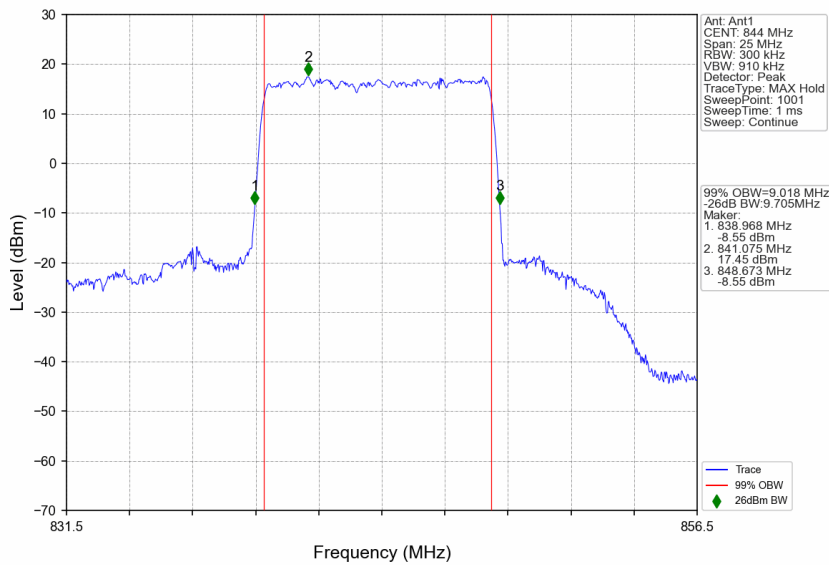


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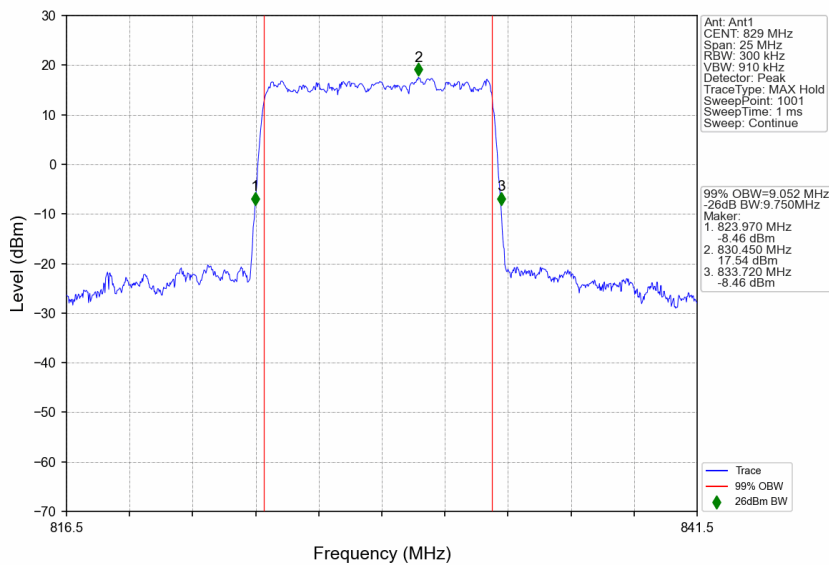
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n5_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 16 QAM_844MHz_Outer_Full



n5_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 64 QAM_829MHz_Outer_Full

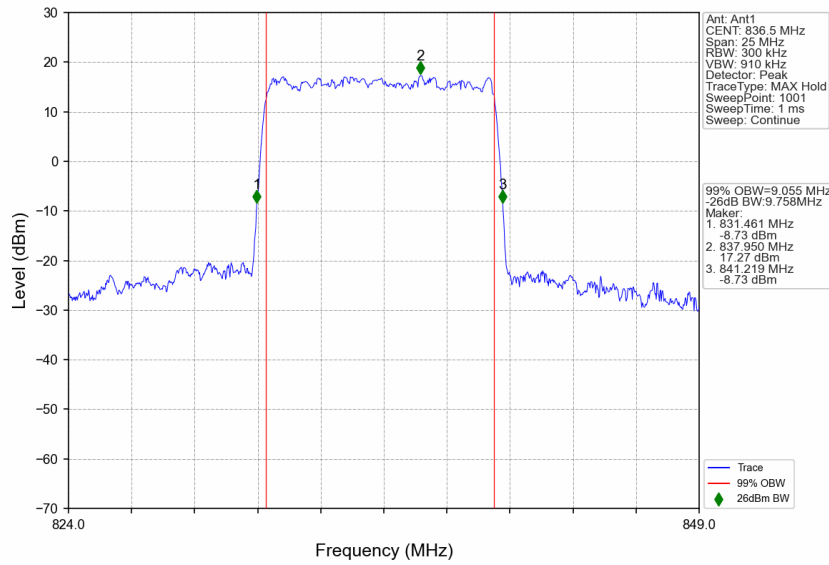


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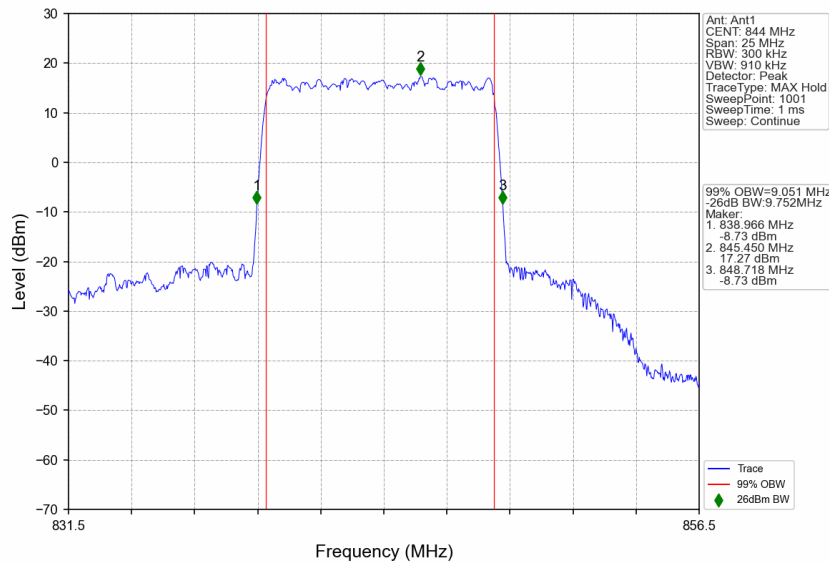
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n5_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 64 QAM_836.5MHz_Outer_Full



n5_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 64 QAM_844MHz_Outer_Full

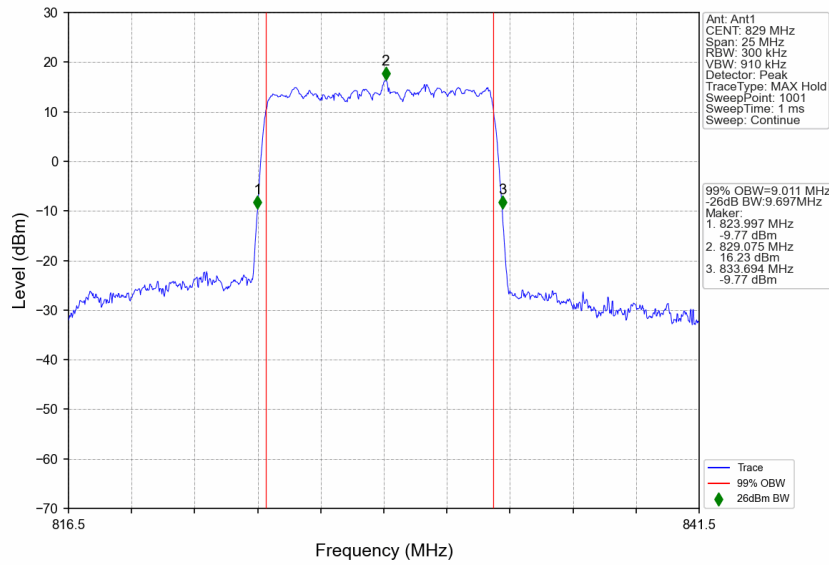


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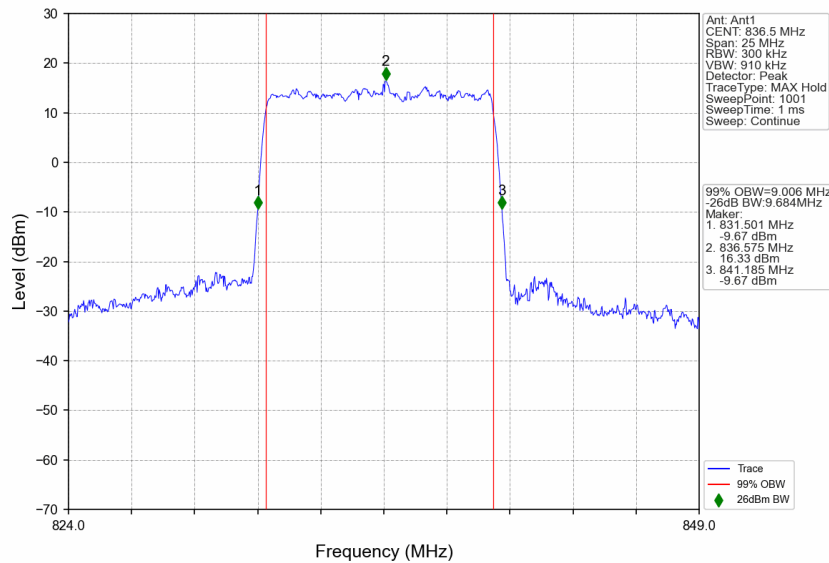
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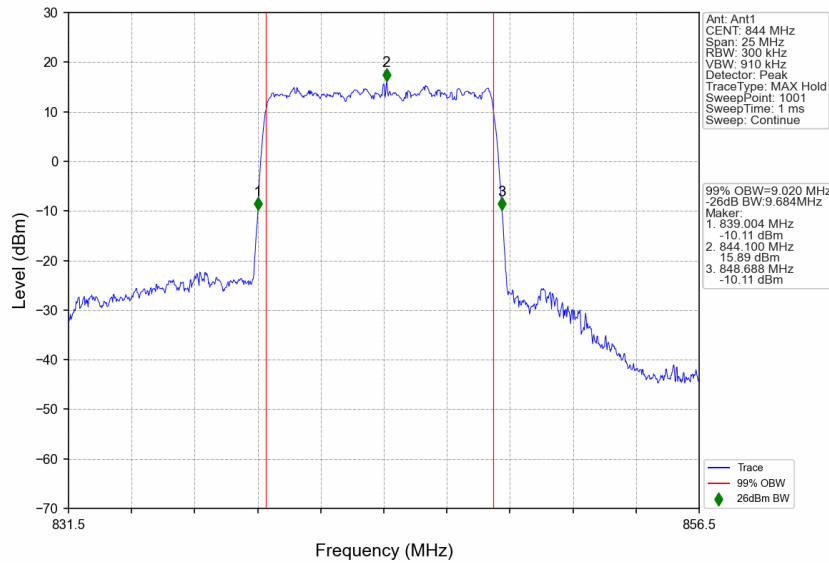
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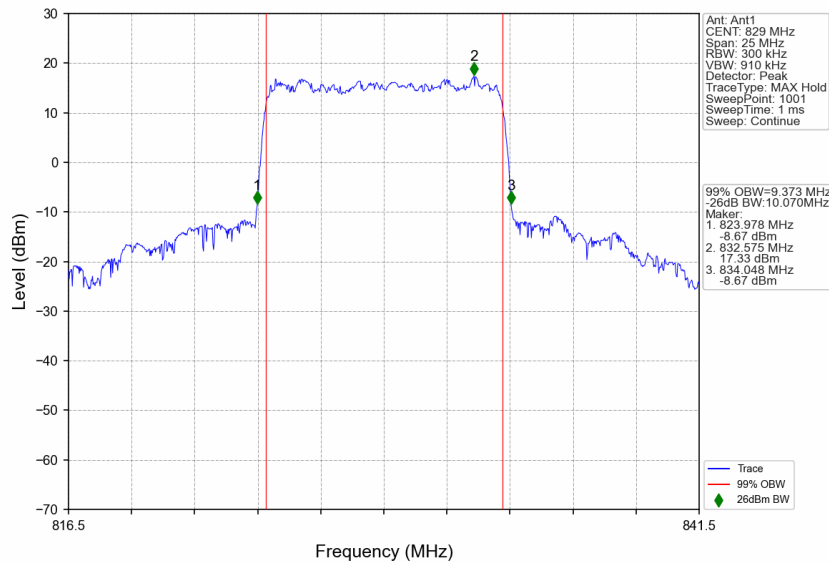
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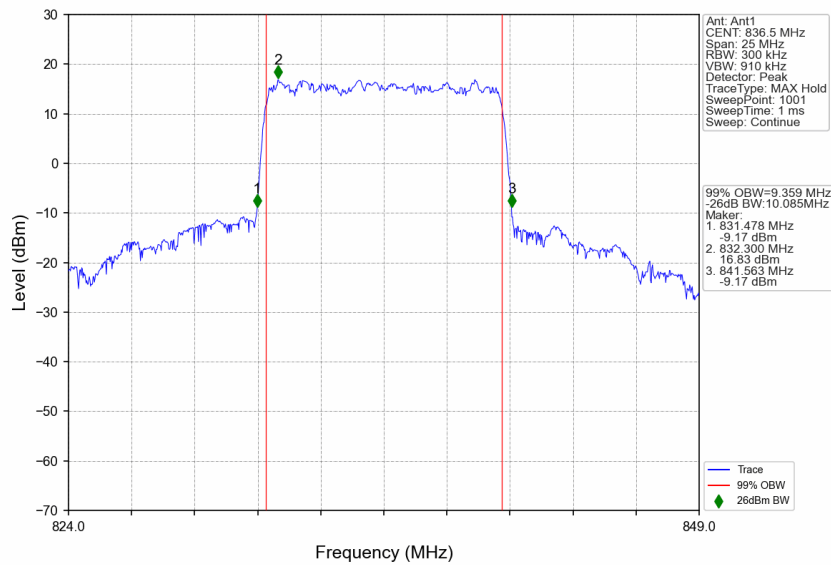


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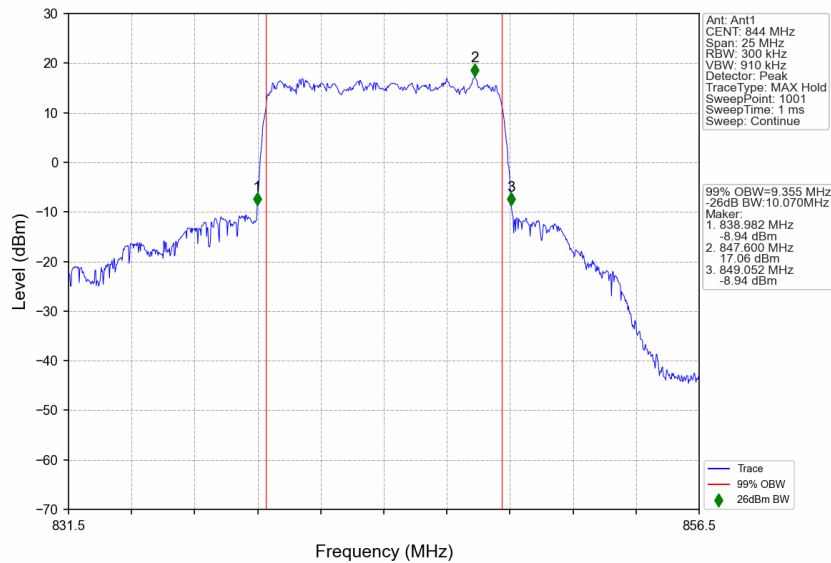
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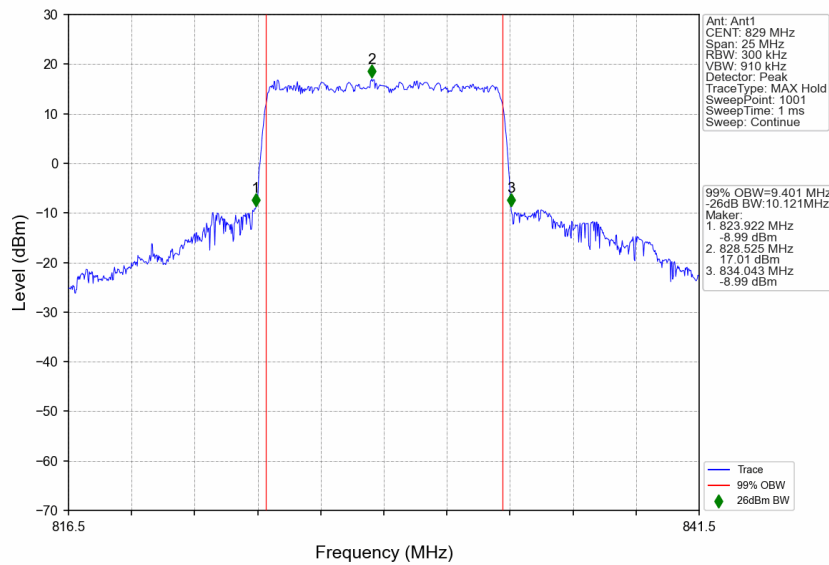


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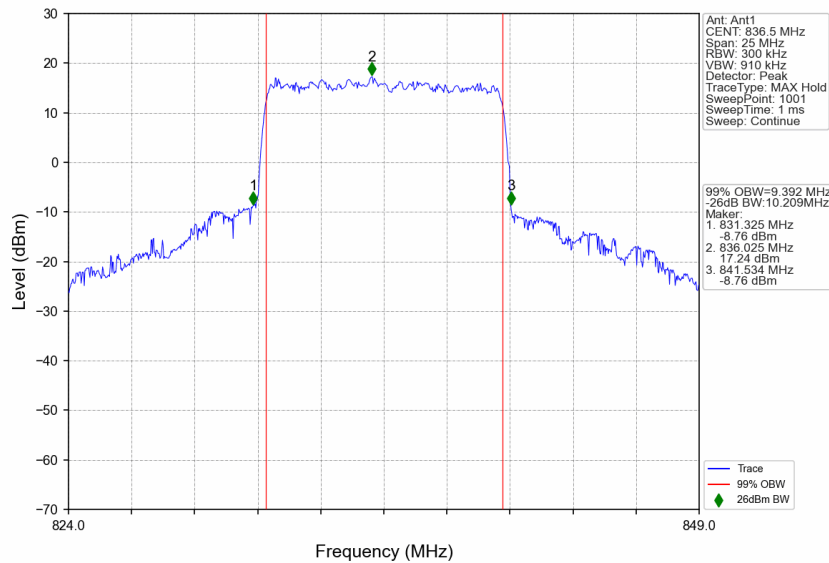
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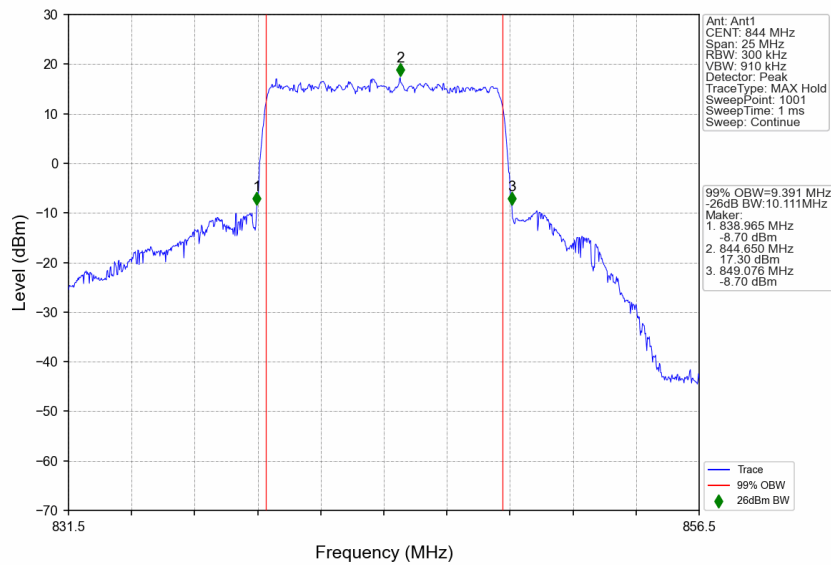


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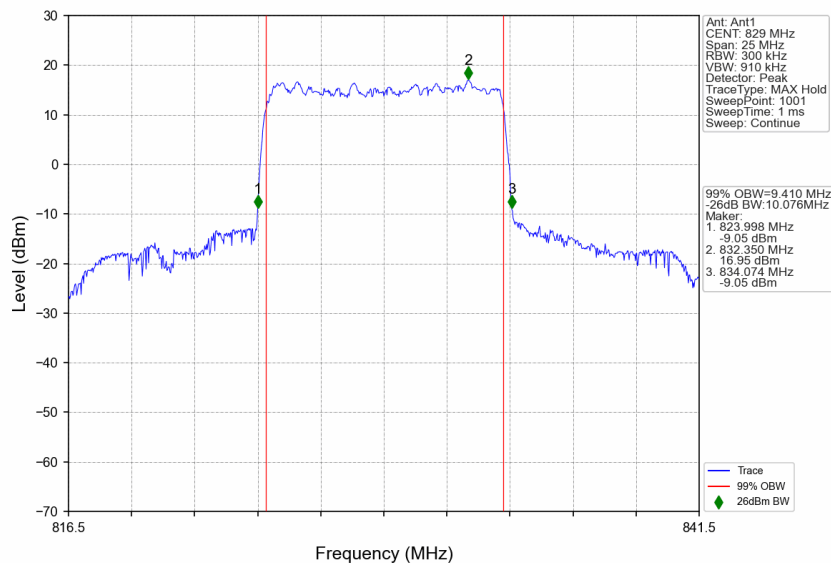
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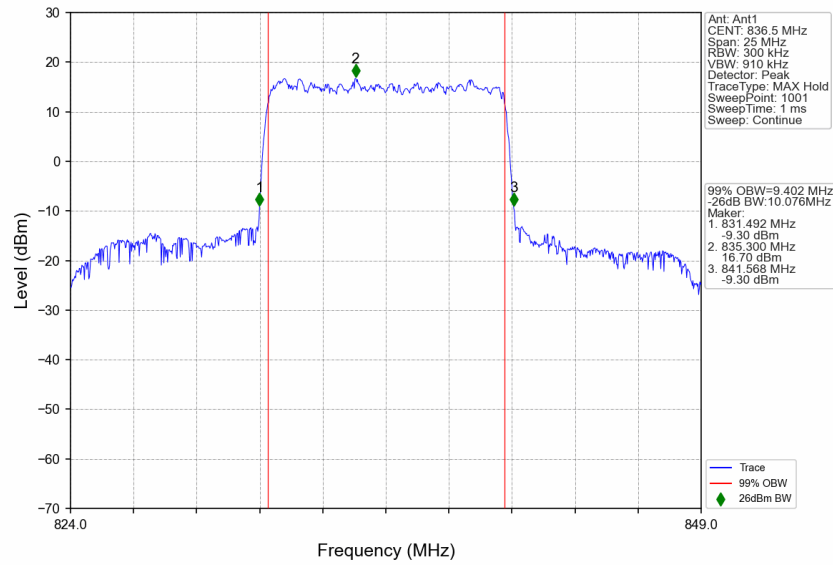


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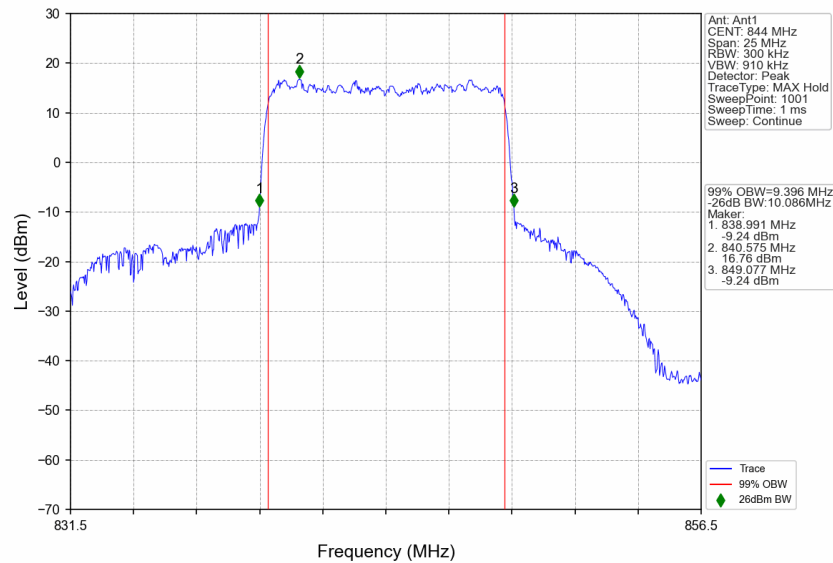
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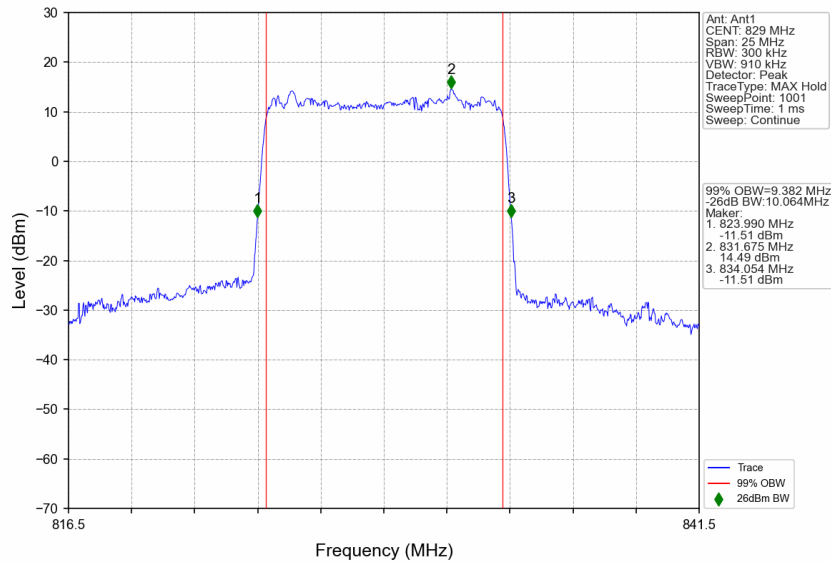
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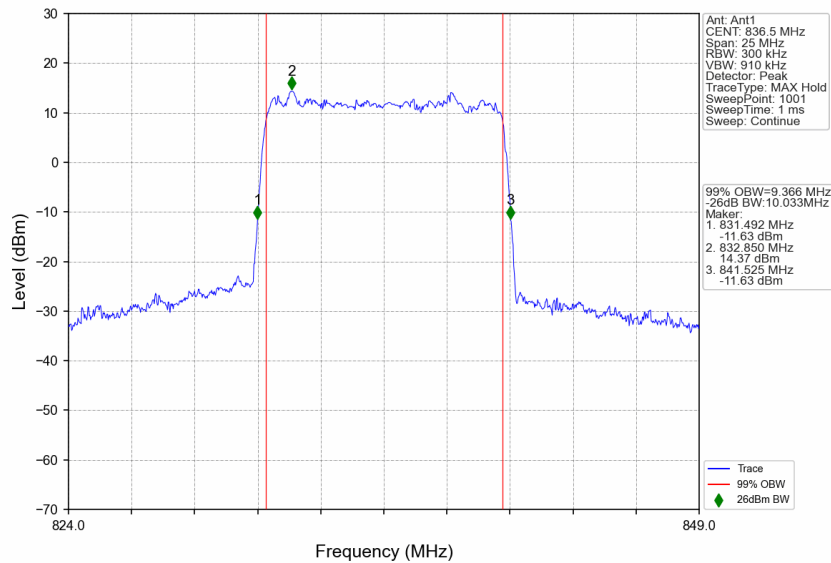
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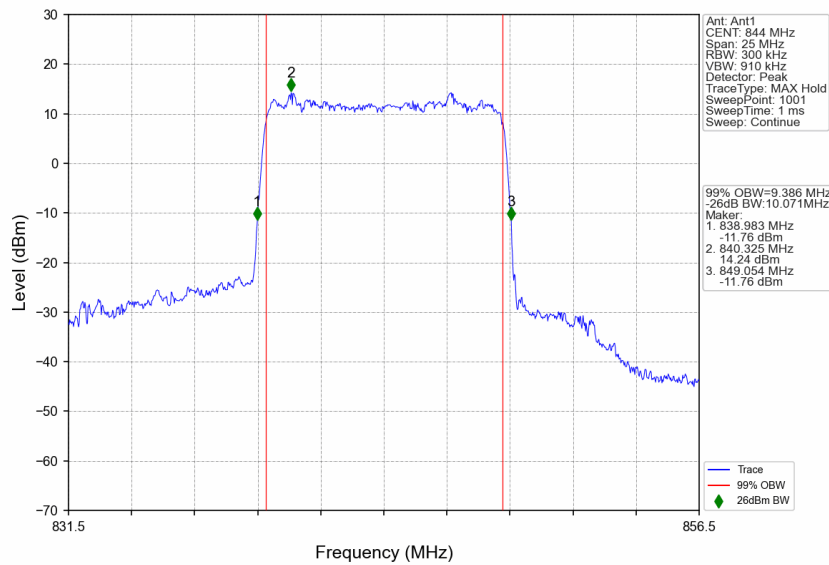


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4.3 15k_SISO_15MHz_NTNV

4.3.1 Test Result

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

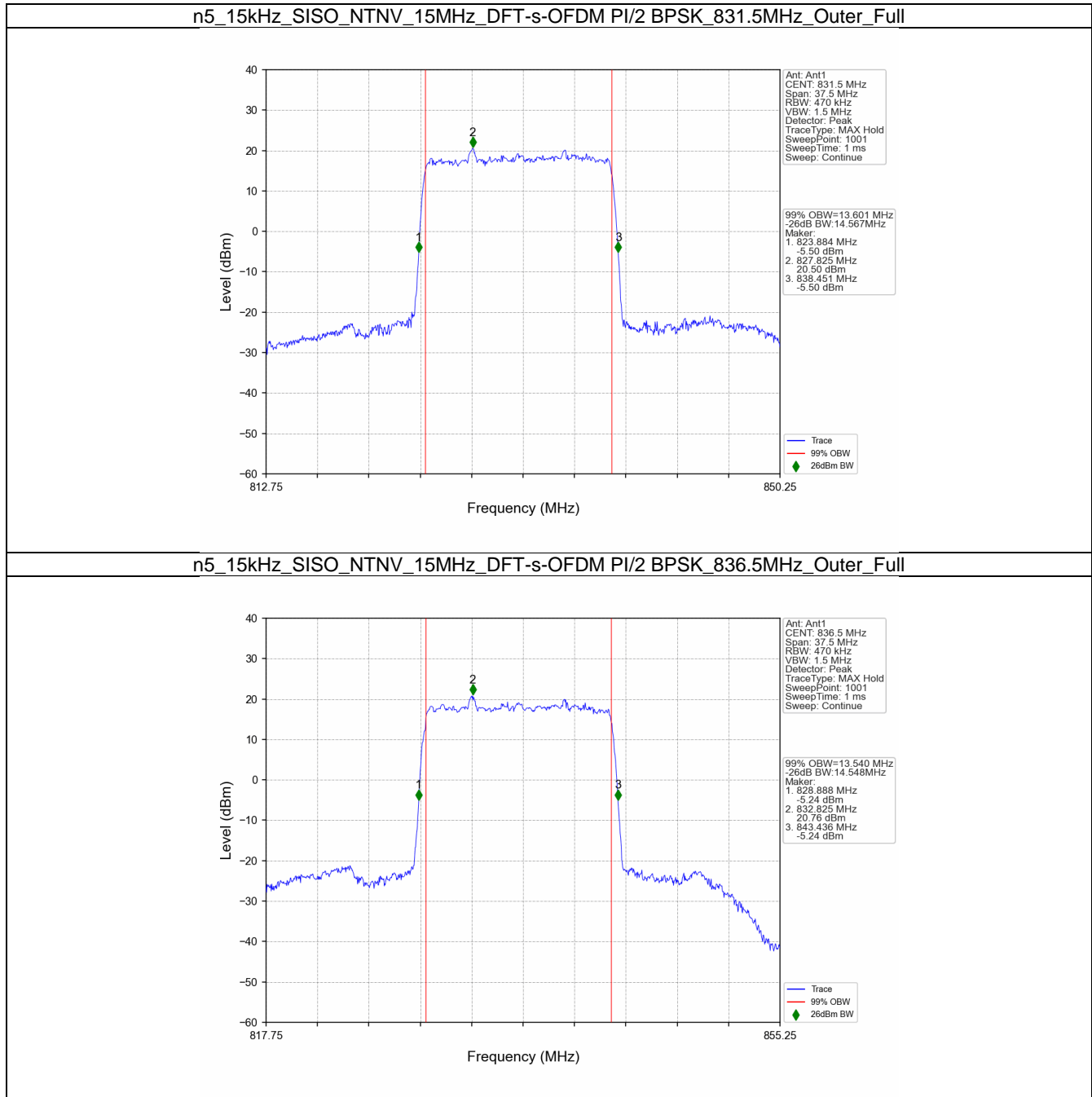


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4.3.2 Test Graph

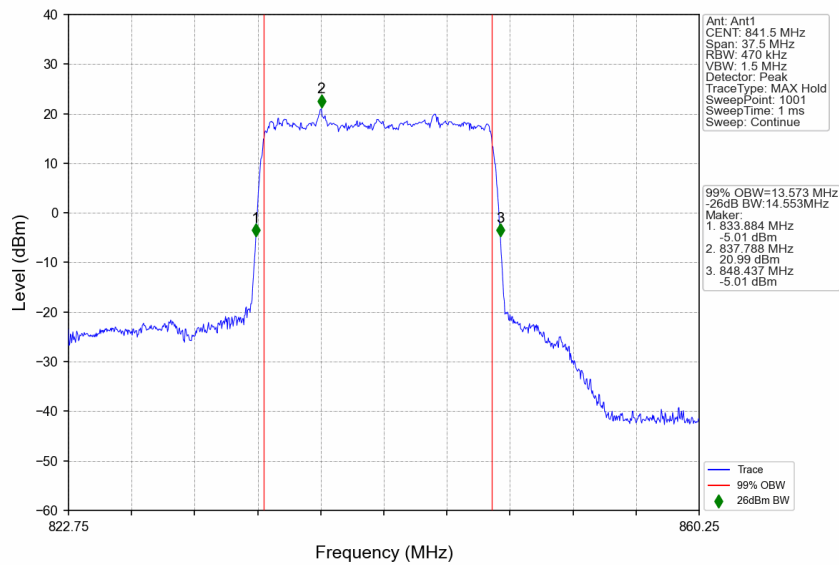


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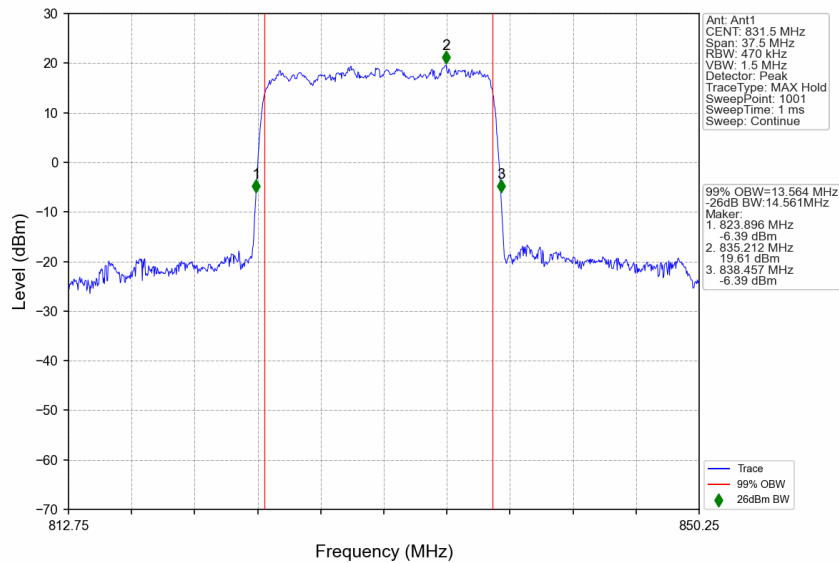
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n5_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_841.5MHz_Outer_Full



n5_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_831.5MHz_Outer_Full

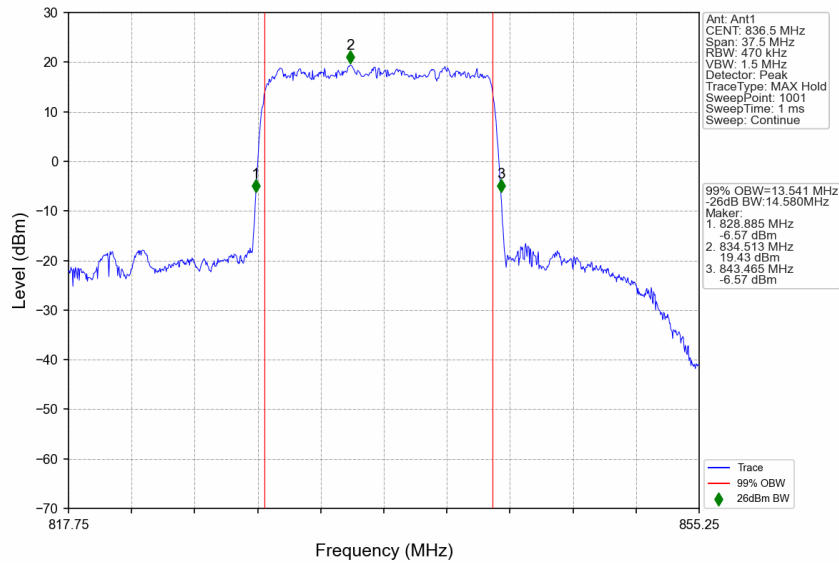


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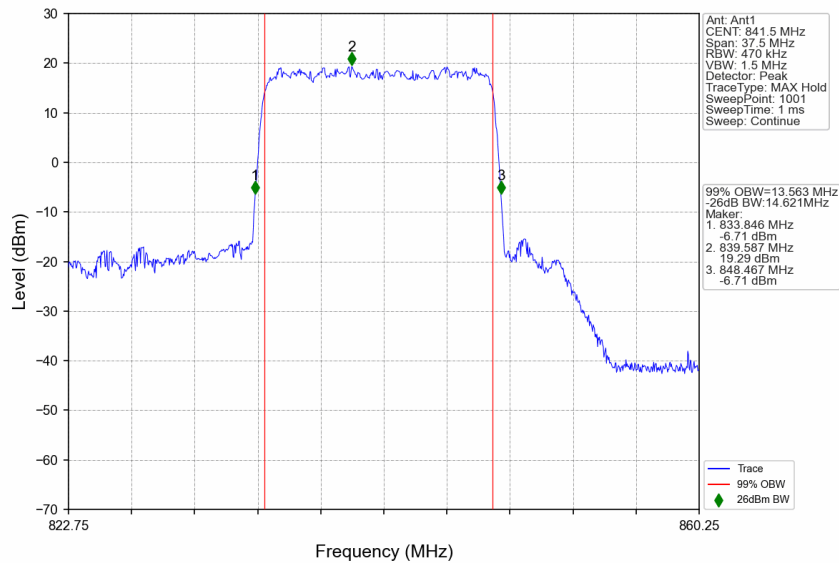
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n5_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_836.5MHz_Outer_Full



n5_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_841.5MHz_Outer_Full

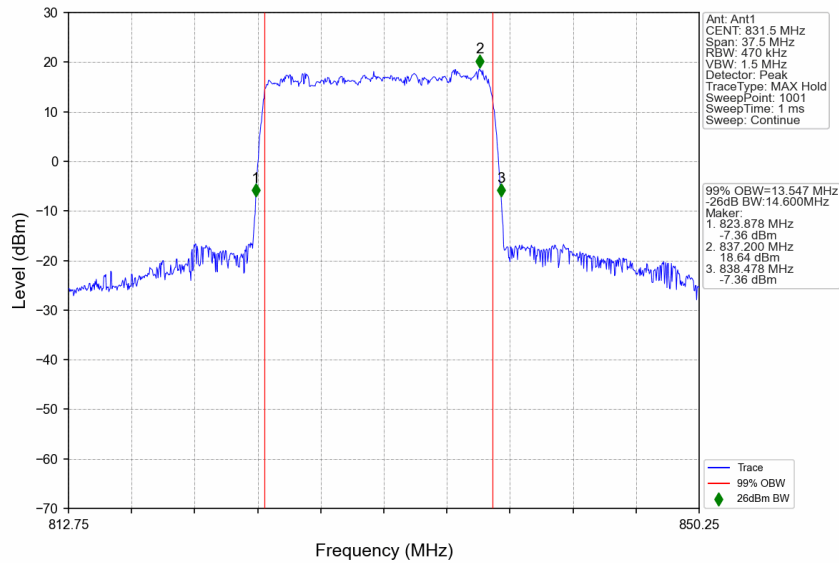


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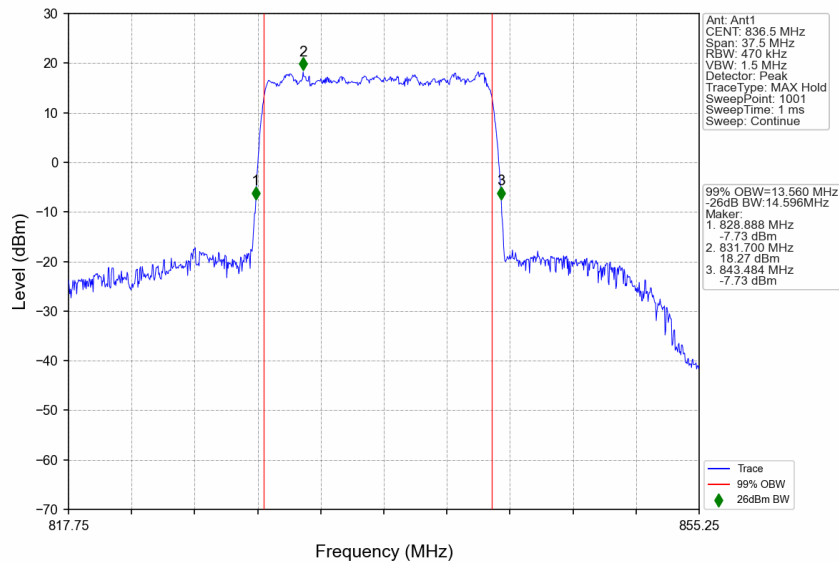
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n5_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM_16_QAM_831.5MHz_Outer_Full



n5_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM_16_QAM_836.5MHz_Outer_Full

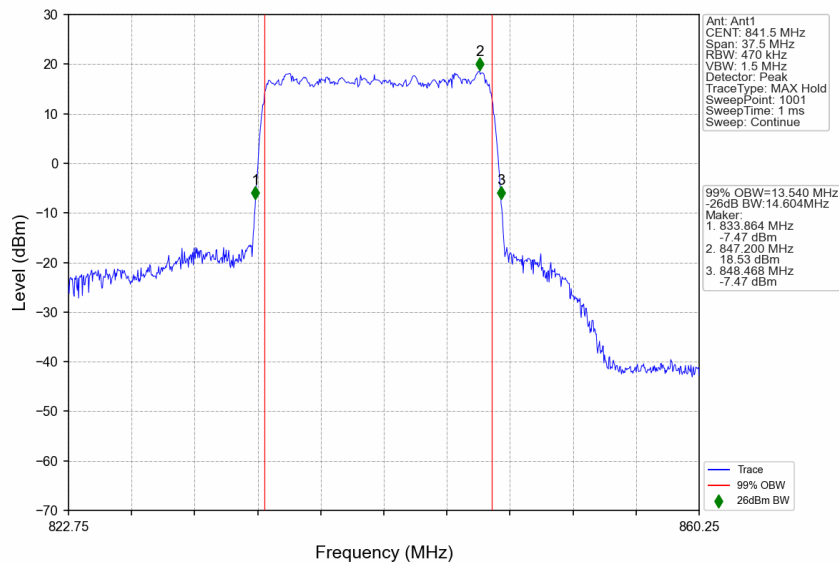


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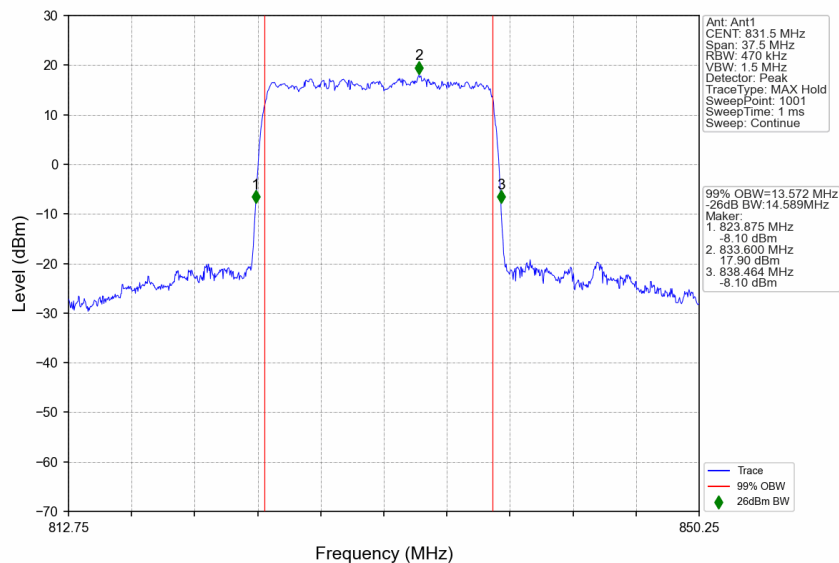
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n5_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 16 QAM_841.5MHz_Outer_Full



n5_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 64 QAM_831.5MHz_Outer_Full

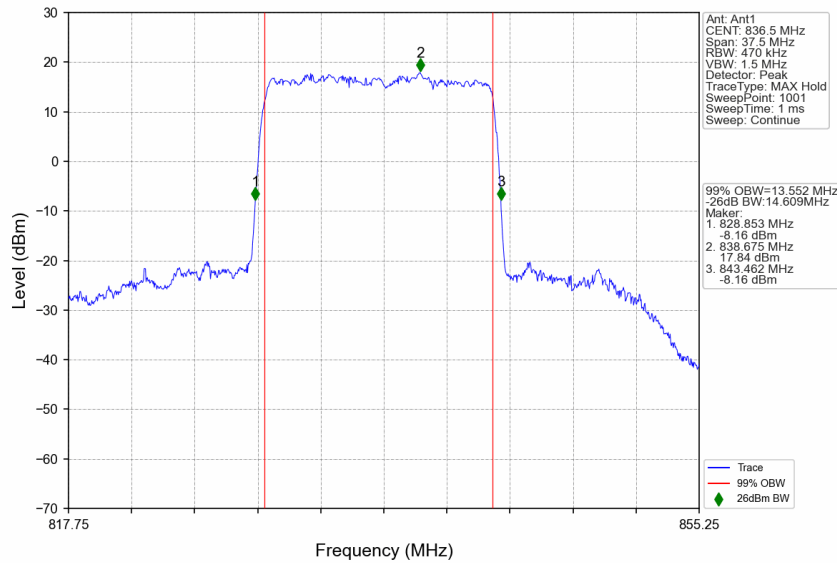


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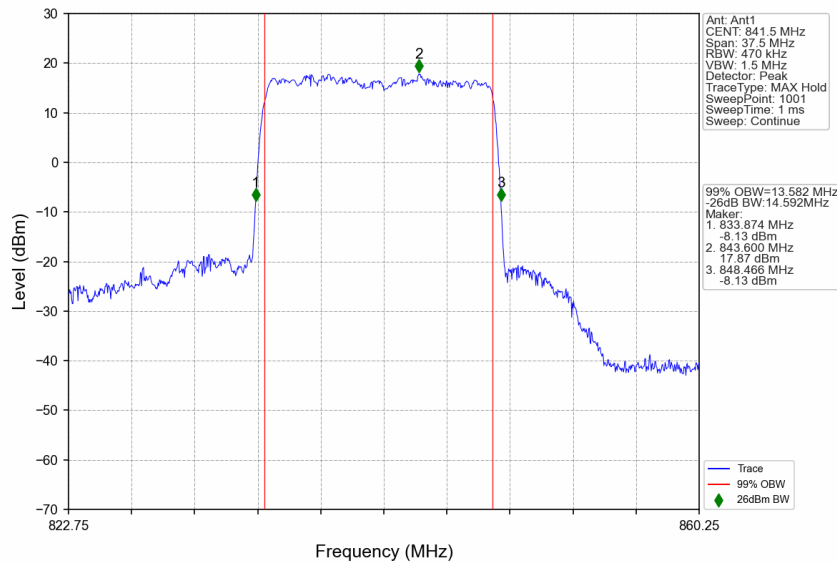
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n5_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 64 QAM_836.5MHz_Outer_Full



n5_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 64 QAM_841.5MHz_Outer_Full

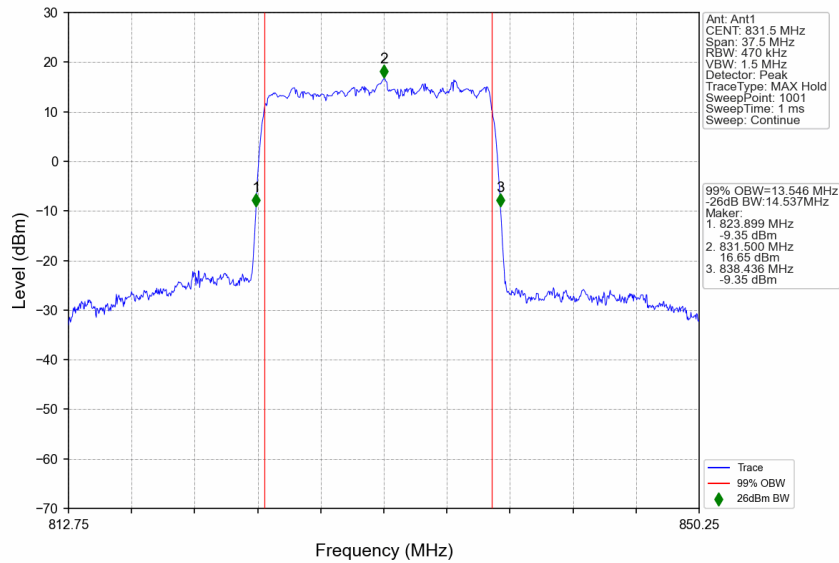


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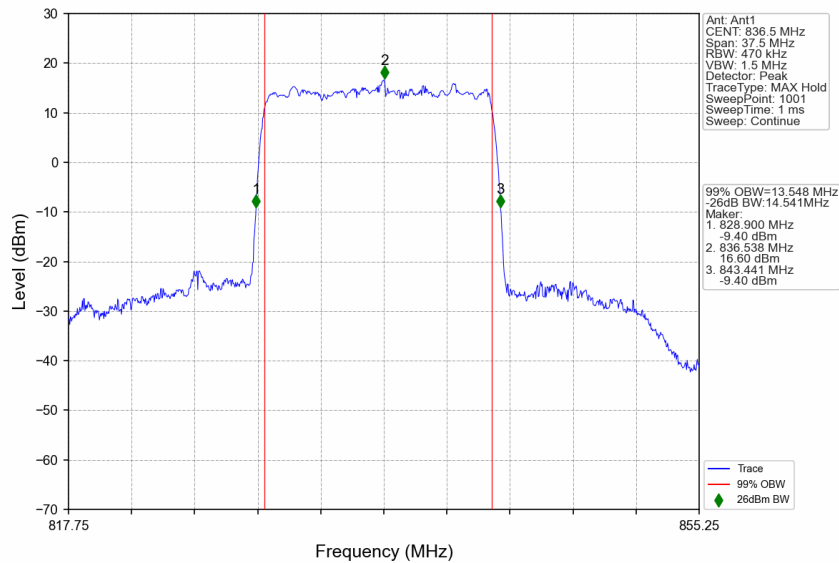
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n5_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 256 QAM_831.5MHz_Outer_Full



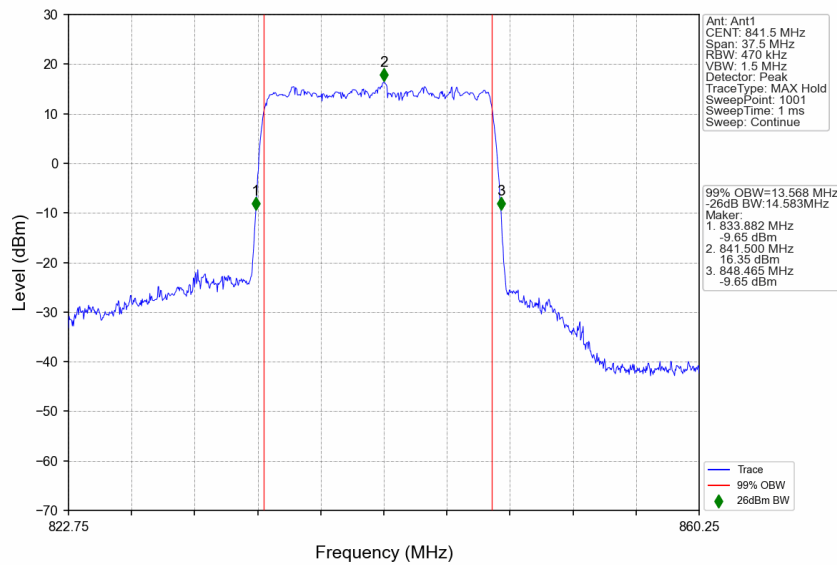
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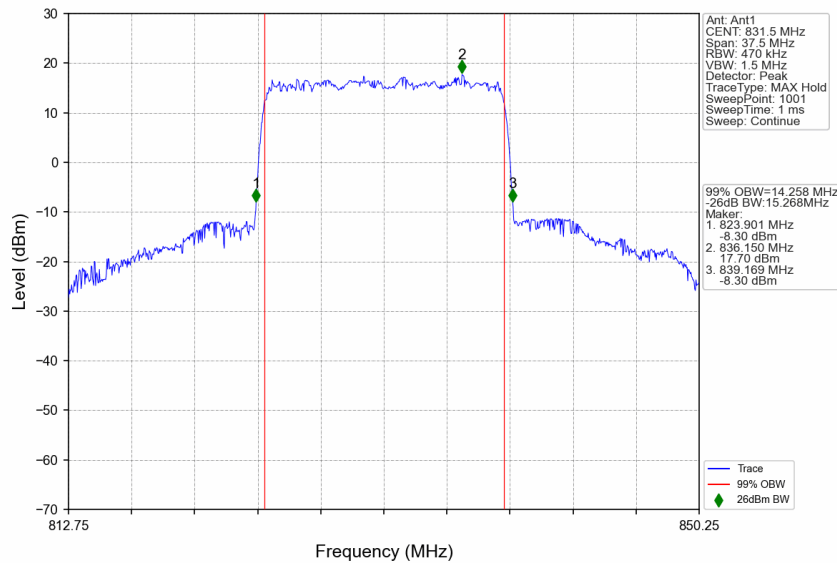
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n5_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 256 QAM_841.5MHz_Outer_Full



n5_15kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_831.5MHz_Outer_Full

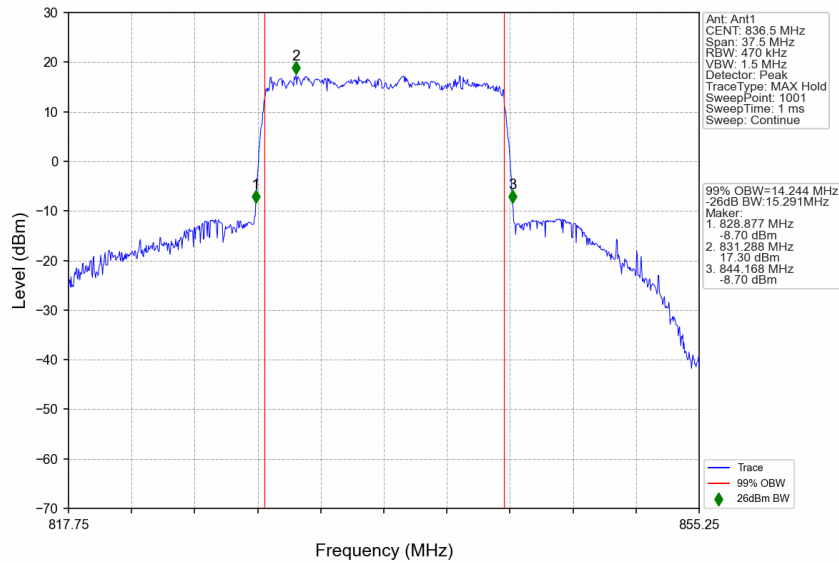


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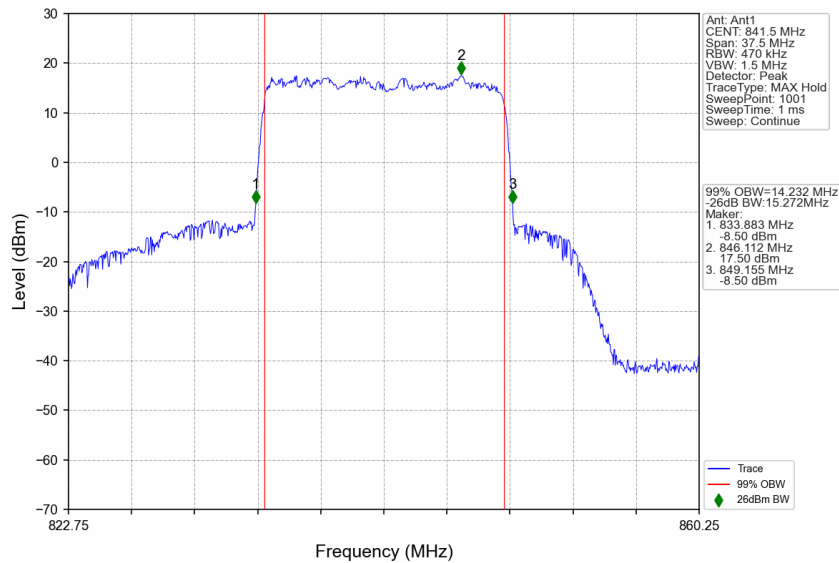
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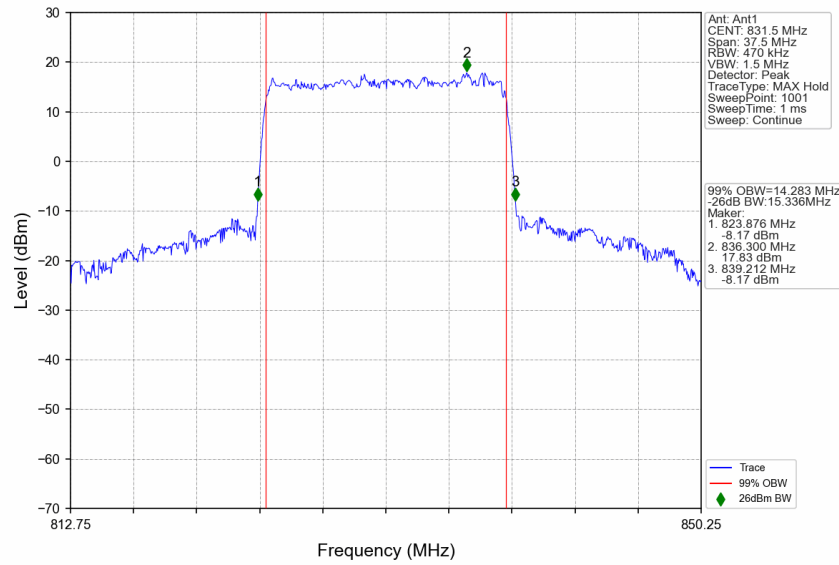


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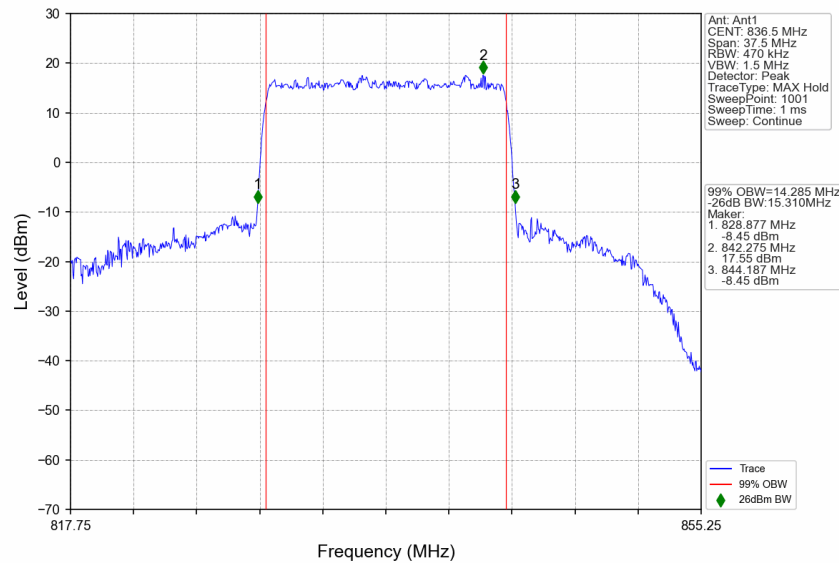
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n5_15kHz_SISO_NTNV_15MHz_CP-OFDM 16 QAM_836.5MHz_Outer_Full

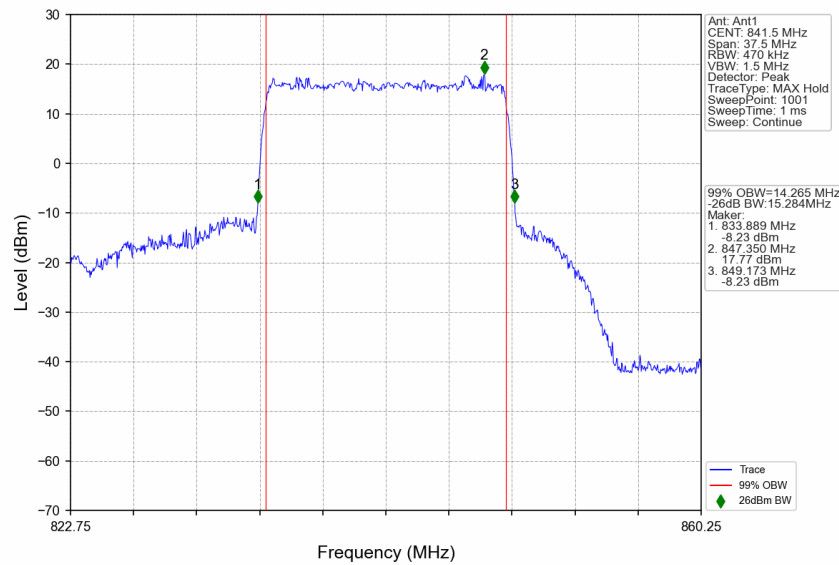


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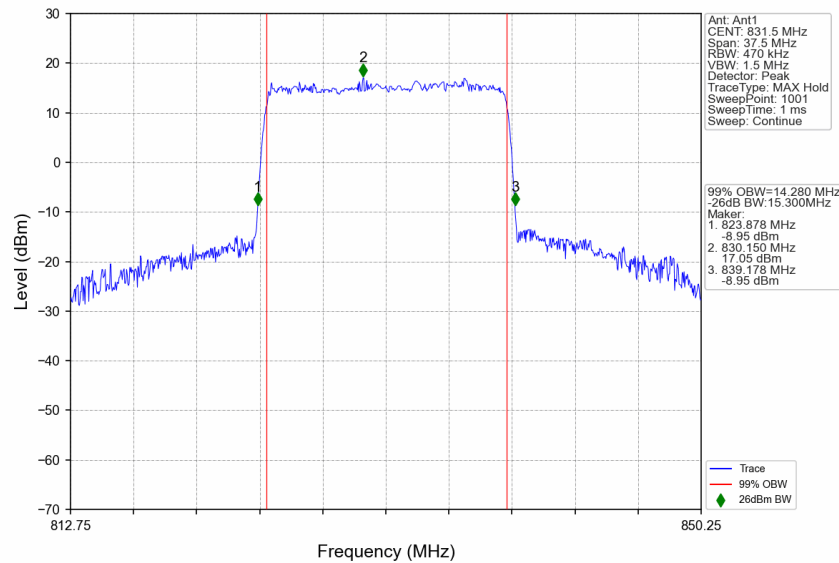
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n5_15kHz_SISO_NTNV_15MHz_CP-OFDM 64 QAM_831.5MHz_Outer_Full

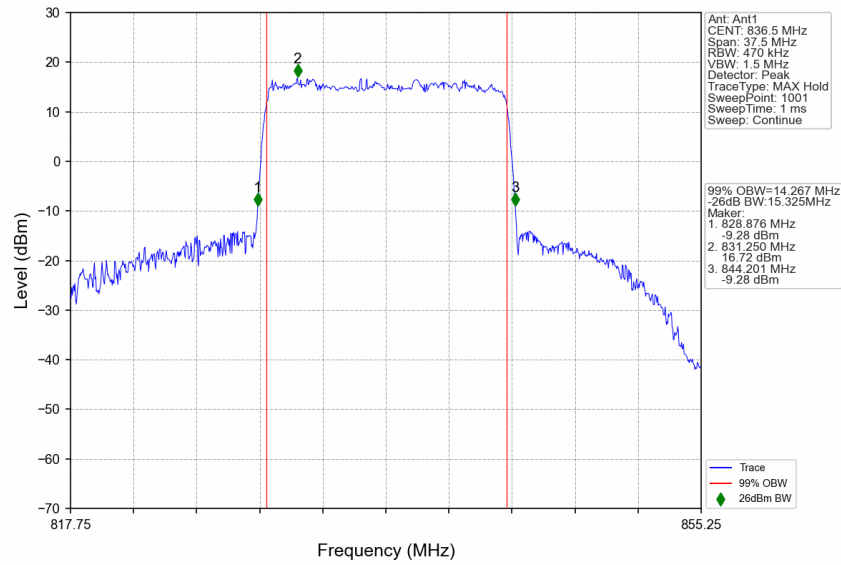


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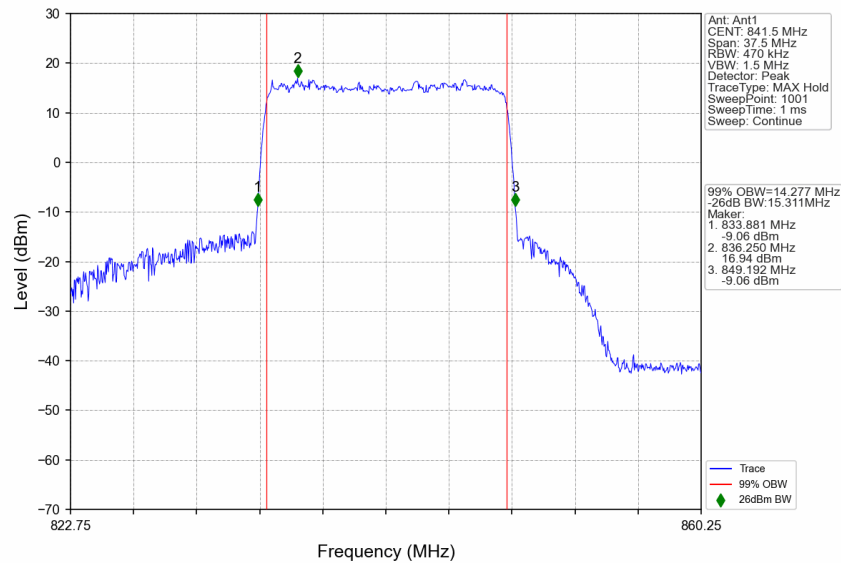
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n5_15kHz_SISO_NTNV_15MHz_CP-OFDM 64 QAM_836.5MHz_Outer_Full



n5_15kHz_SISO_NTNV_15MHz_CP-OFDM 64 QAM_841.5MHz_Outer_Full

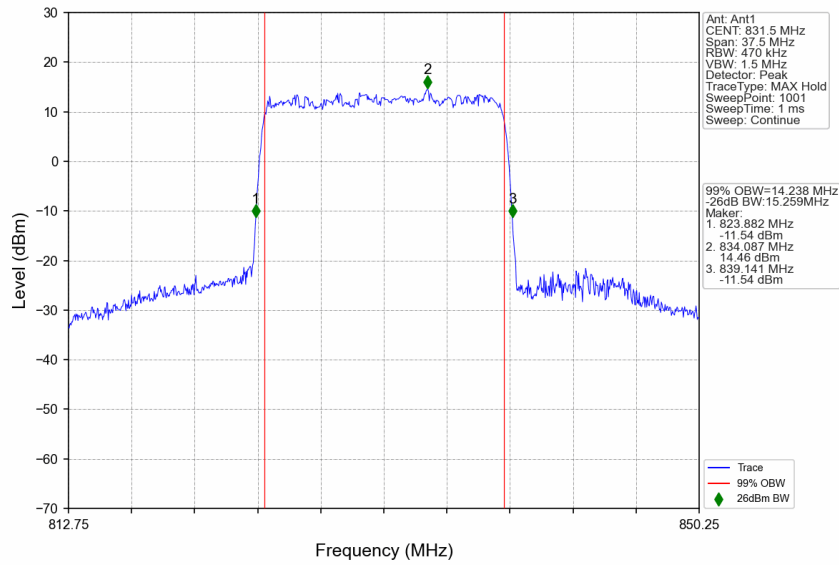


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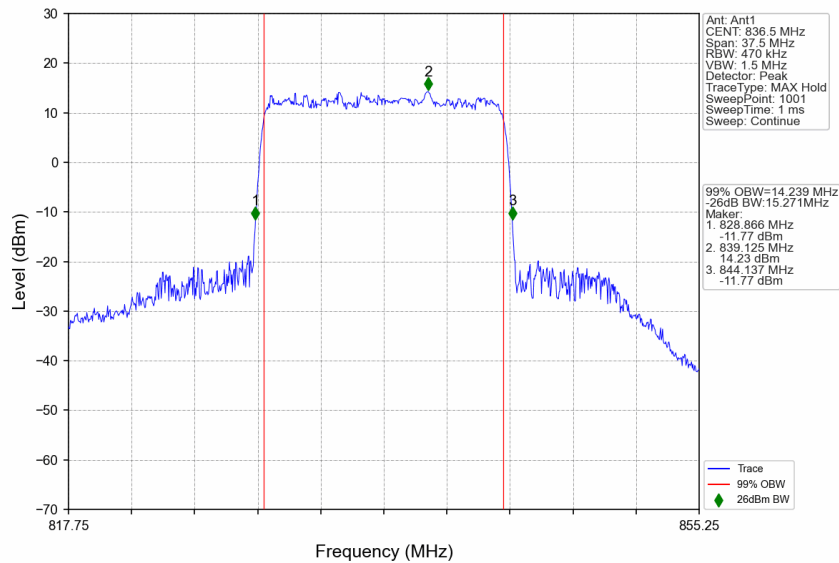
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n5_15kHz_SISO_NTNV_15MHz_CP-OFDM 256 QAM_831.5MHz_Outer_Full



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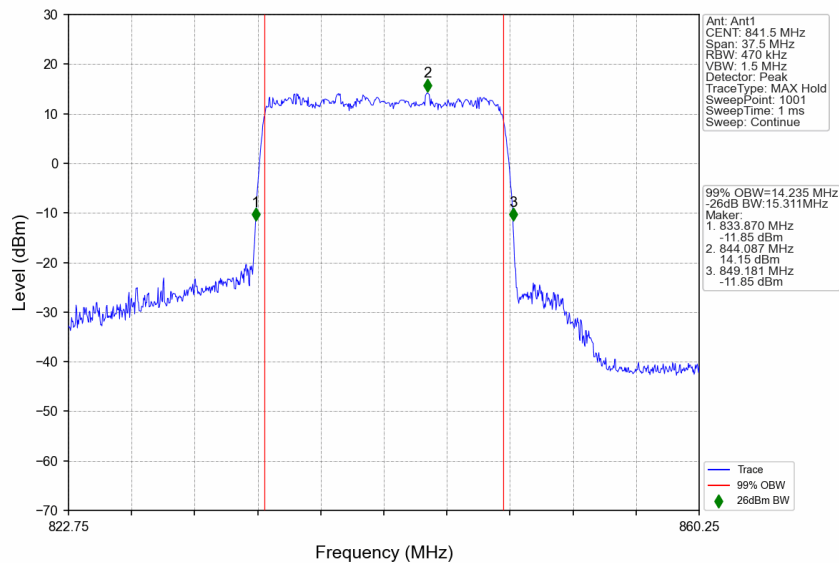


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n5_15kHz_SISO_NTNV_15MHz_CP-OFDM 256 QAM_841.5MHz_Outer_Full



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4.4 15k_SISO_20MHz_NTNV

4.4.1 Test Result

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

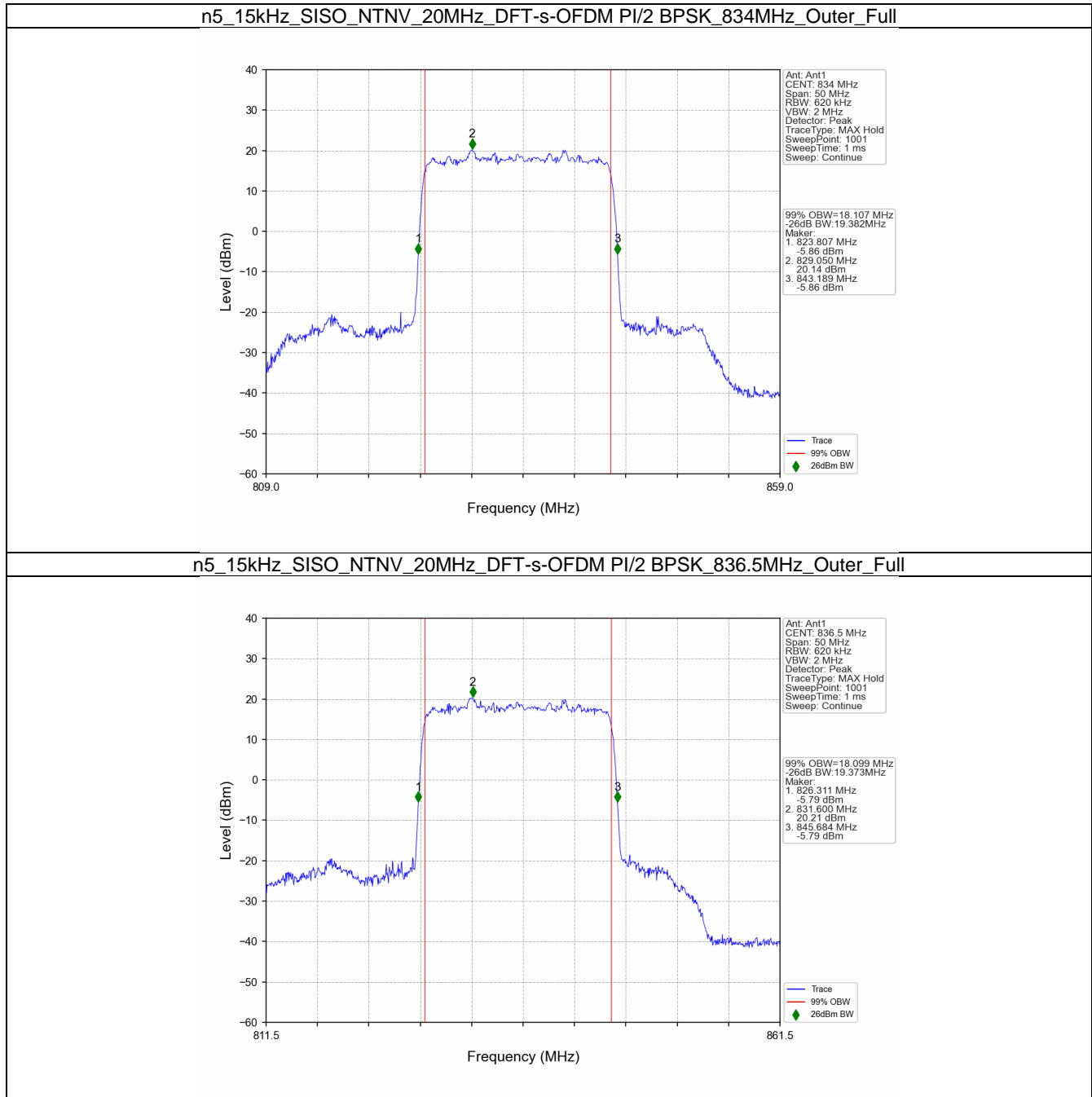


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4.4.2 Test Graph

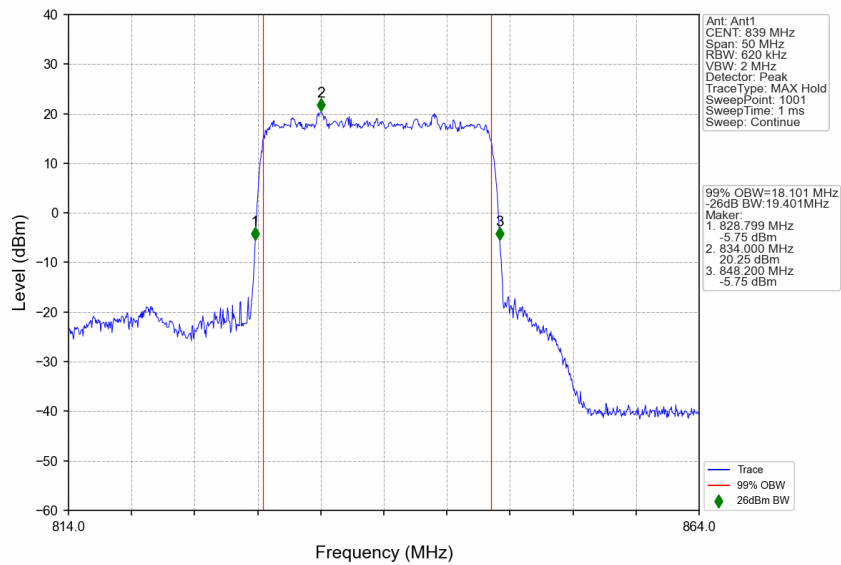


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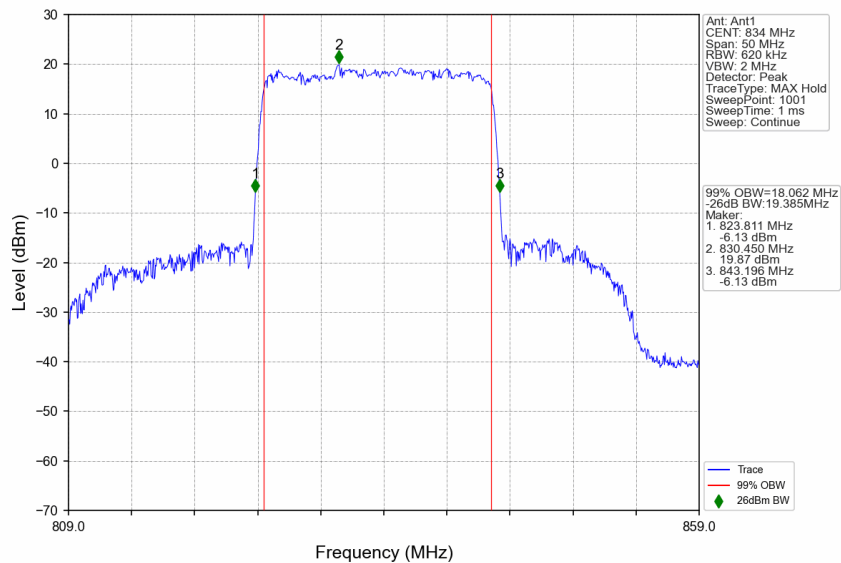
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n5_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_834MHz_Outer_Full

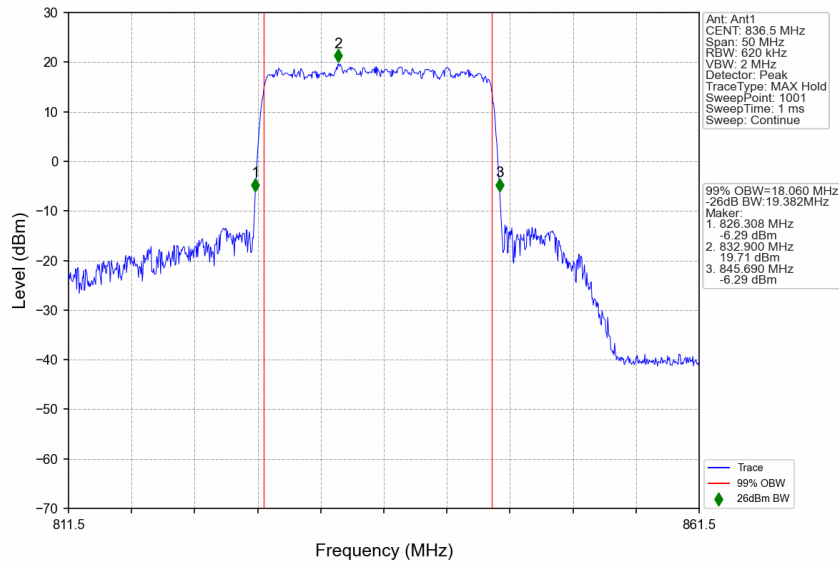


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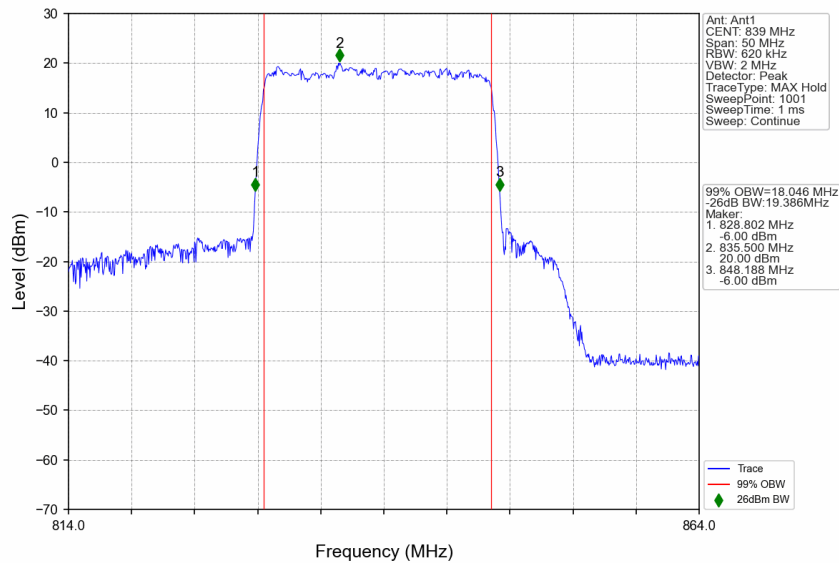
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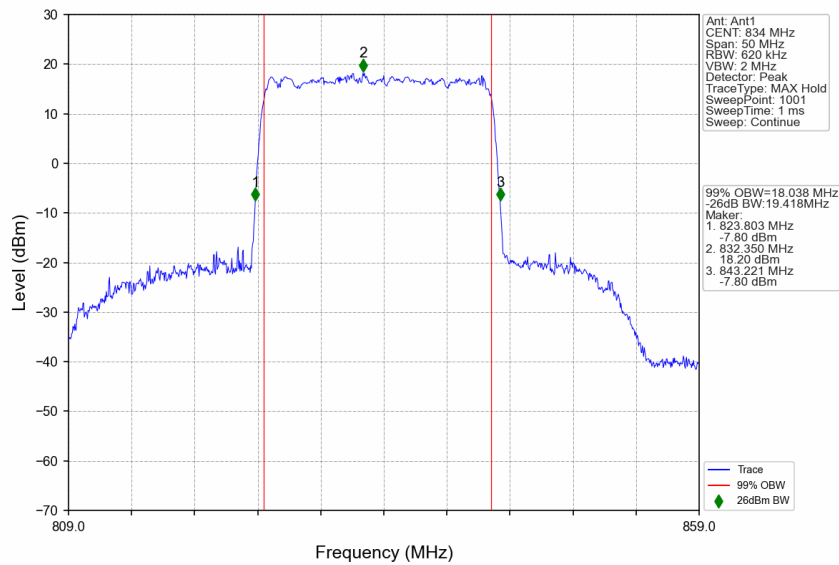


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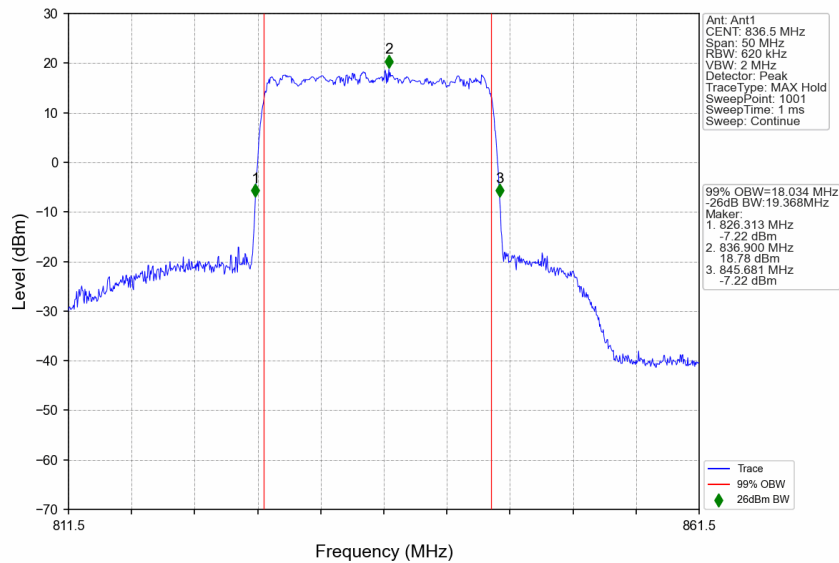
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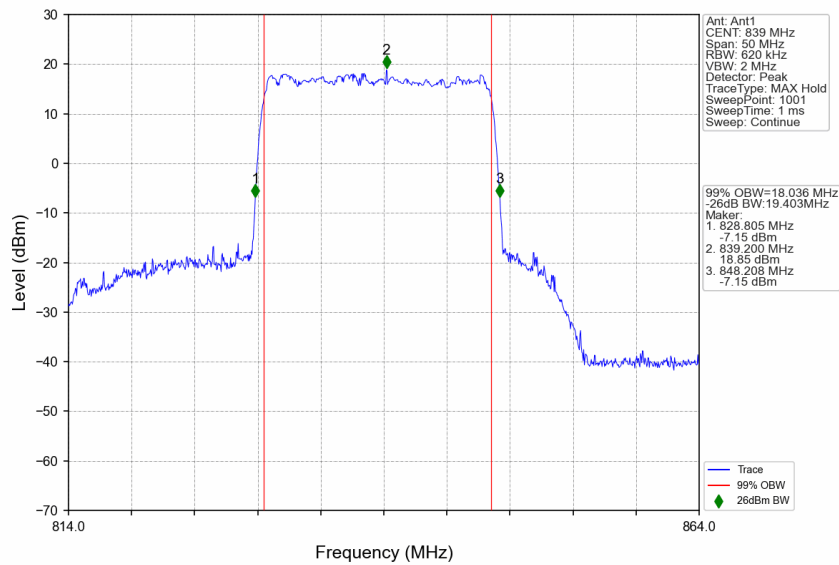


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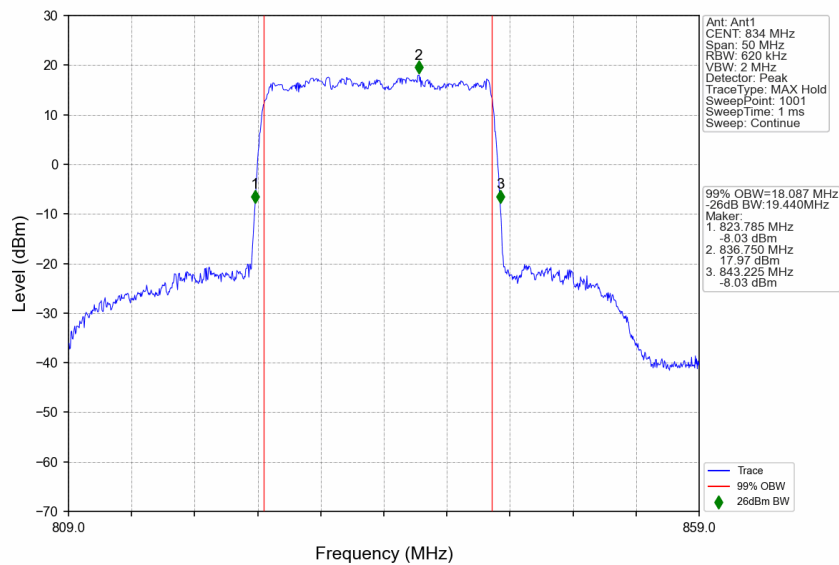
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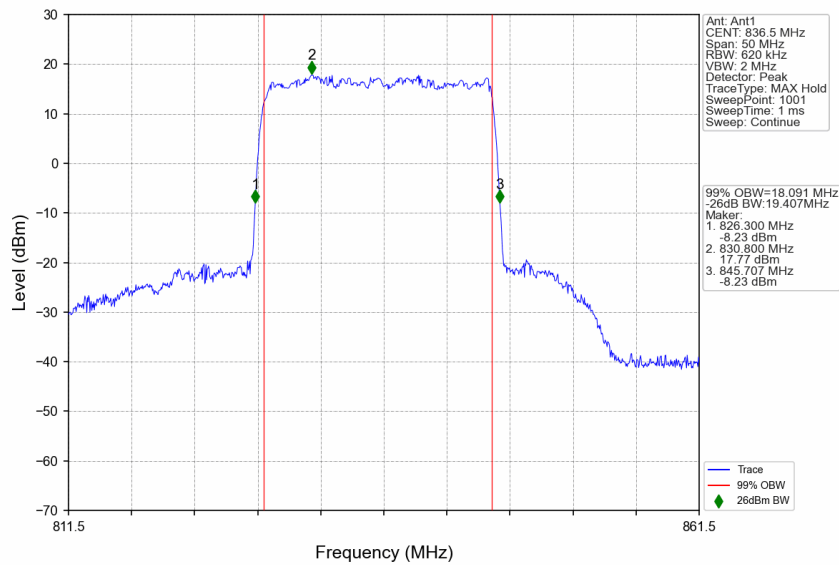


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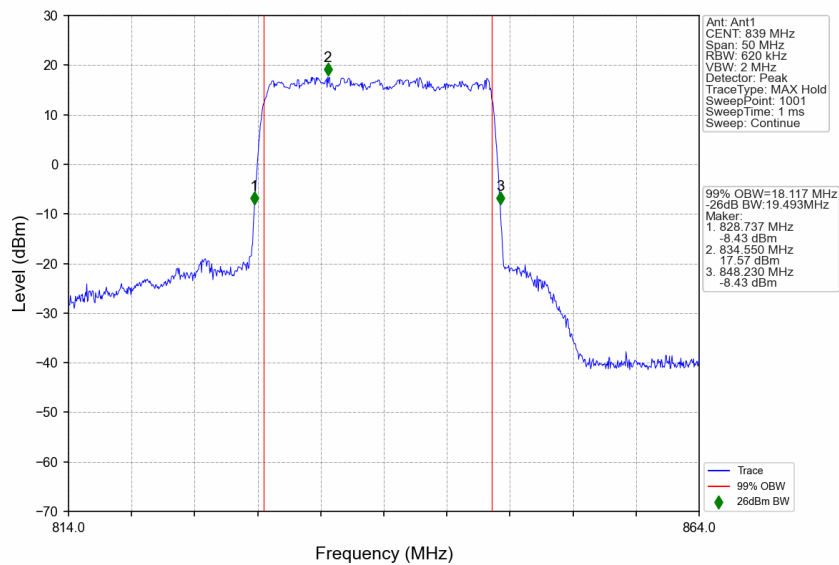
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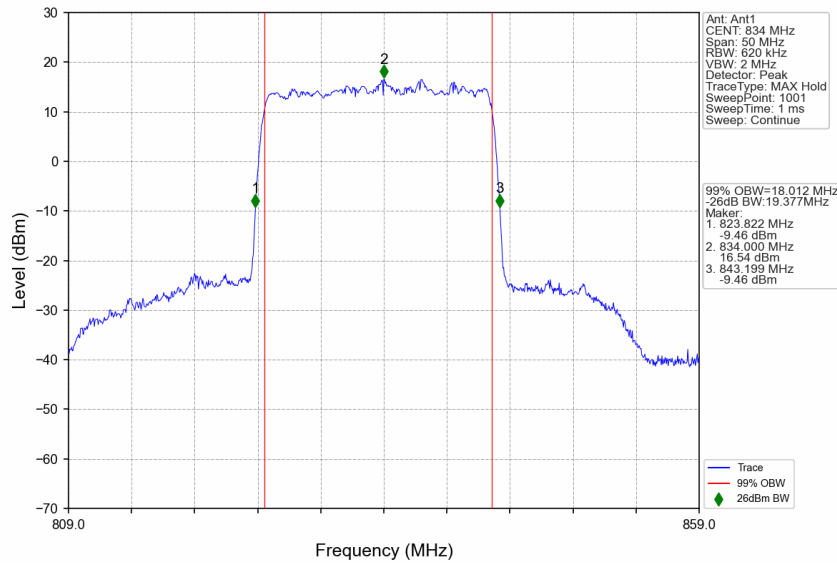


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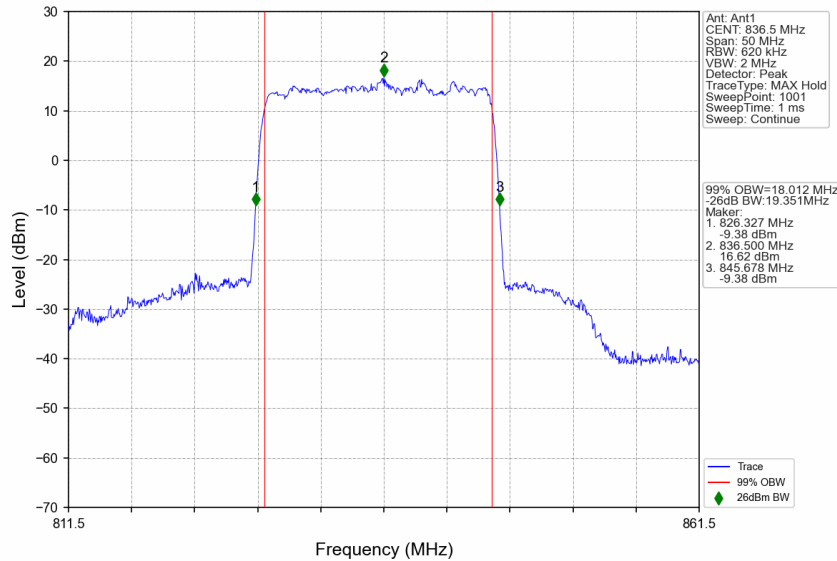
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n5_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM 256 QAM_836.5MHz_Outer_Full

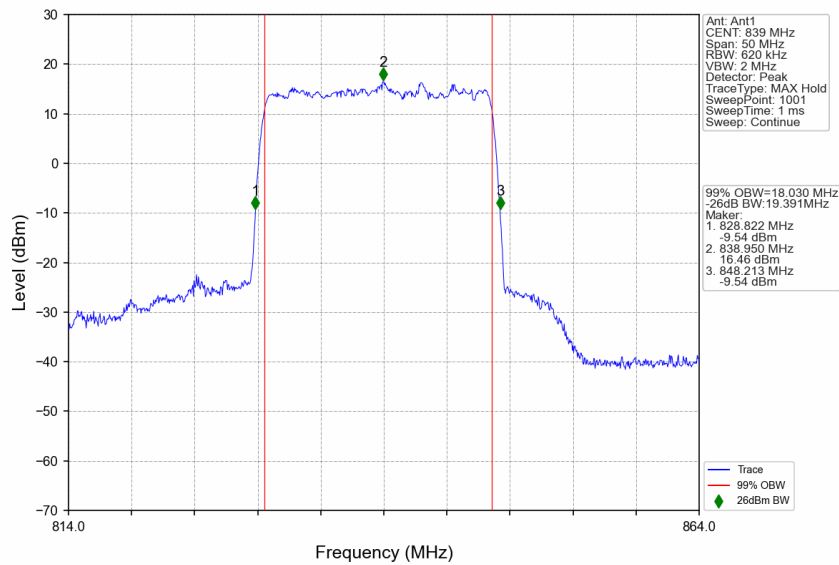


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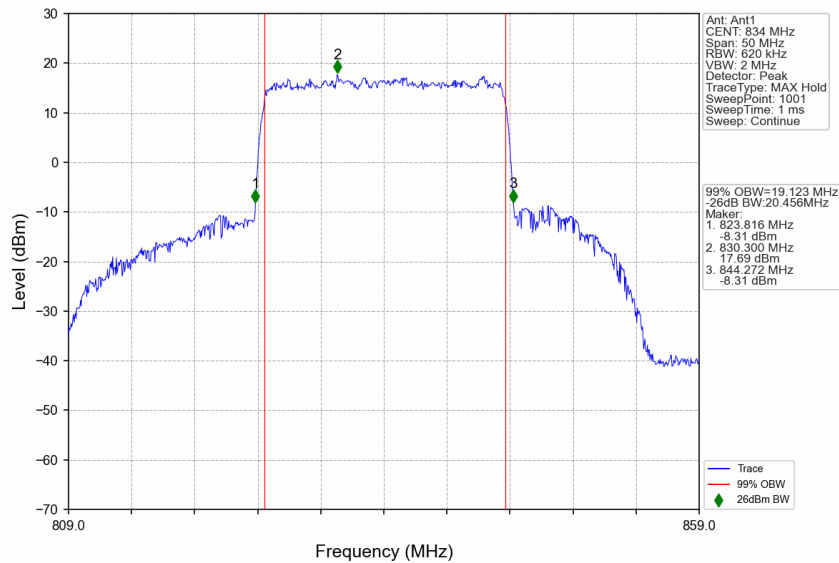
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n5_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM 256 QAM_839MHz_Outer_Full



n5_15kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_834MHz_Outer_Full

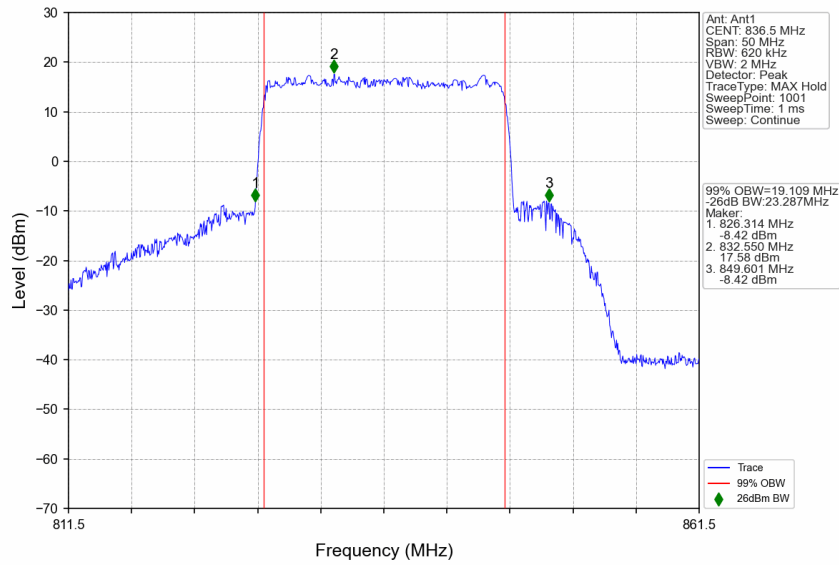


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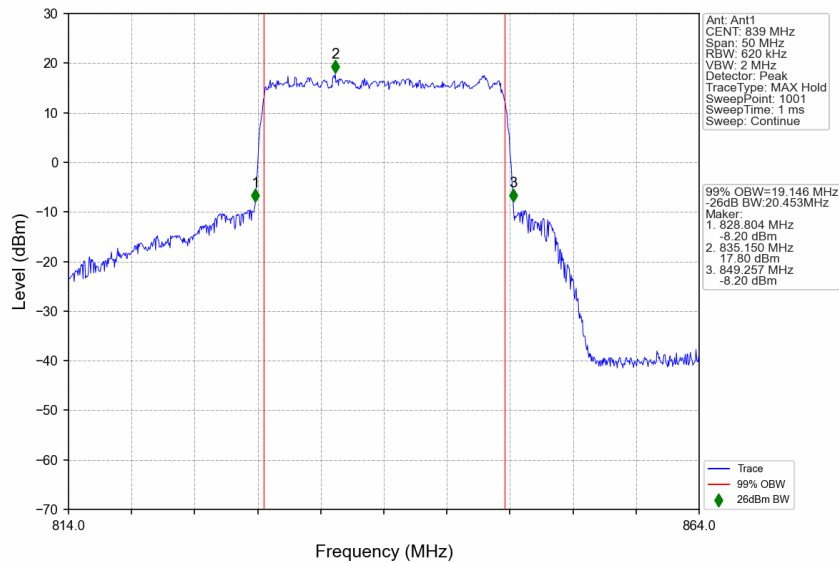
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n5_15kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_836.5MHz_Outer_Full



n5_15kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_839MHz_Outer_Full

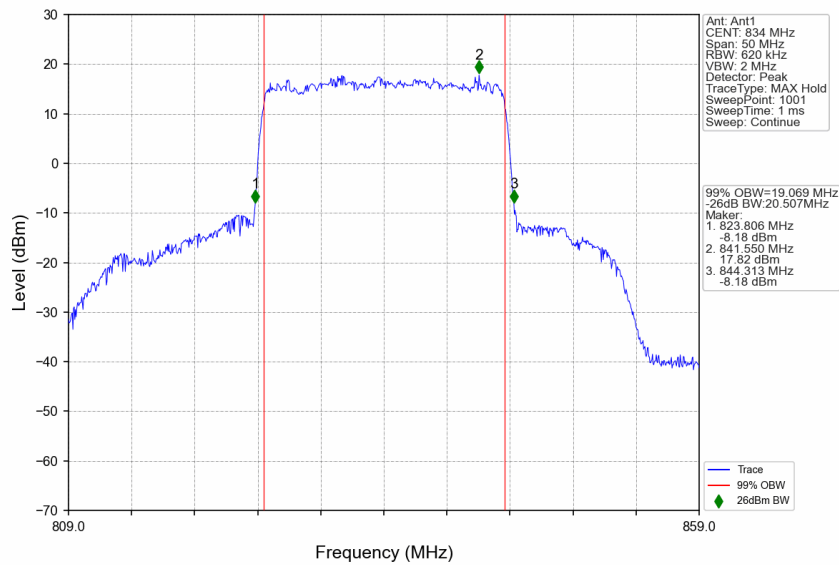


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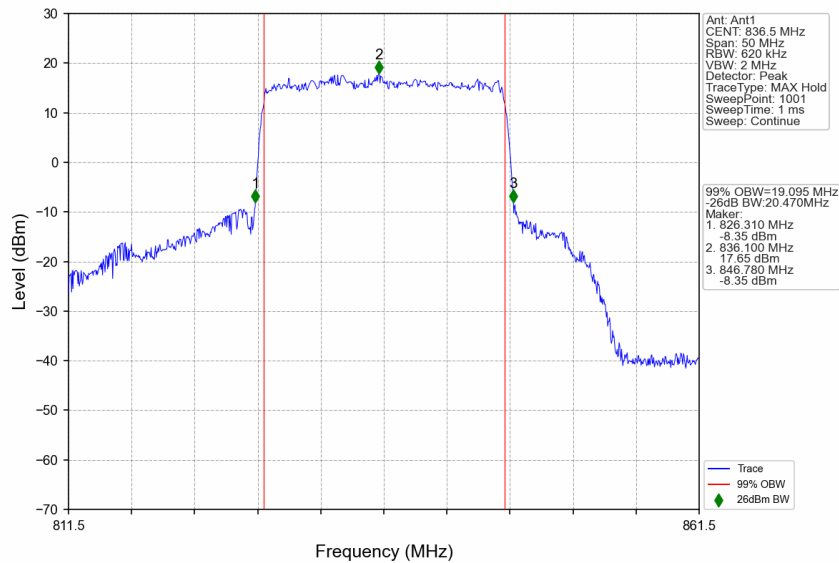
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n5_15kHz_SISO_NTNV_20MHz_CP-OFDM 16 QAM_834MHz_Outer_Full



n5_15kHz_SISO_NTNV_20MHz_CP-OFDM 16 QAM_836.5MHz_Outer_Full



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