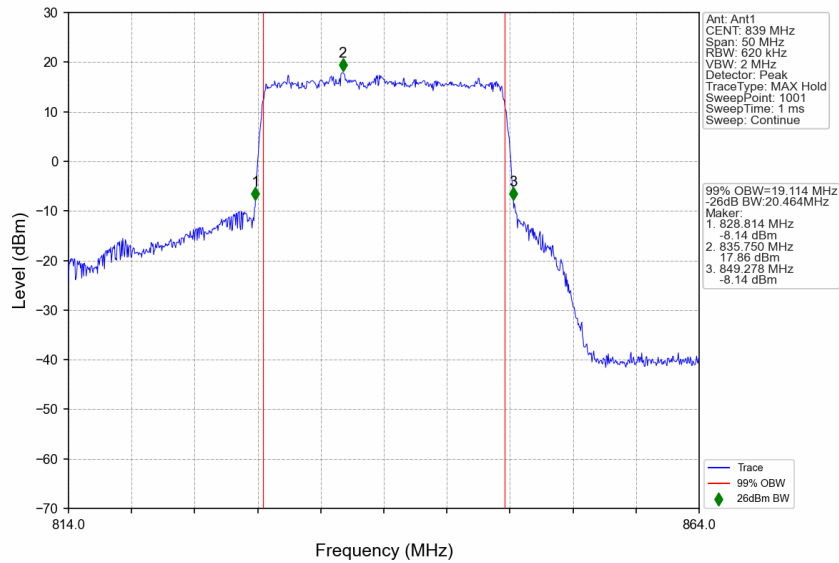
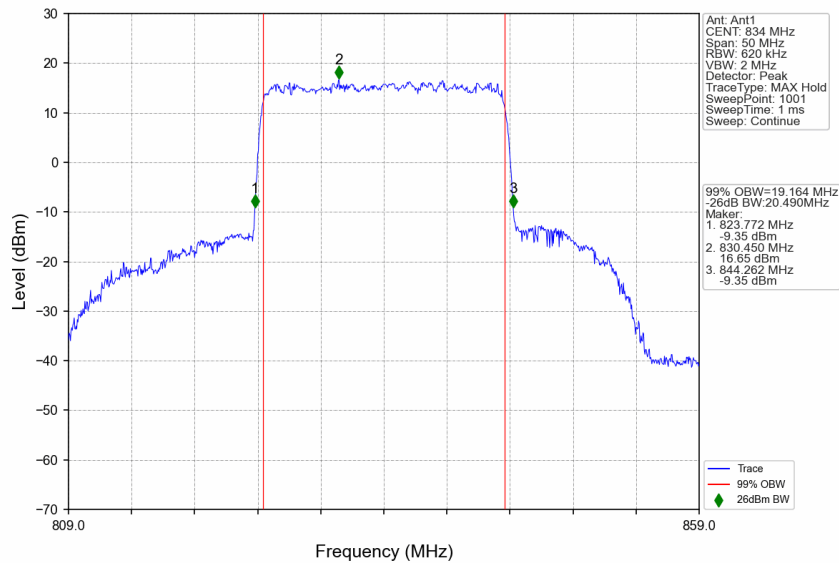


n5_15kHz_SISO_NTNV_20MHz_CP-OFDM 16 QAM_839MHz_Outer_Full



n5_15kHz_SISO_NTNV_20MHz_CP-OFDM 64 QAM_834MHz_Outer_Full



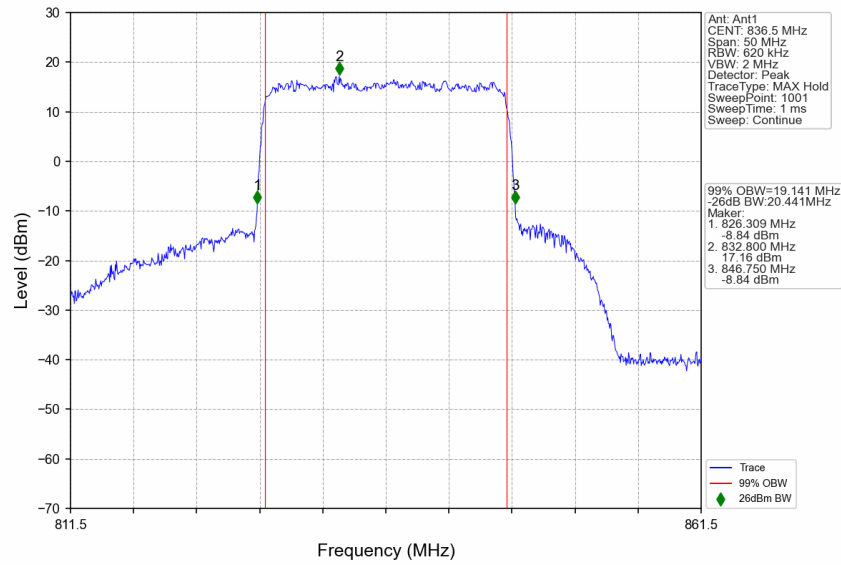
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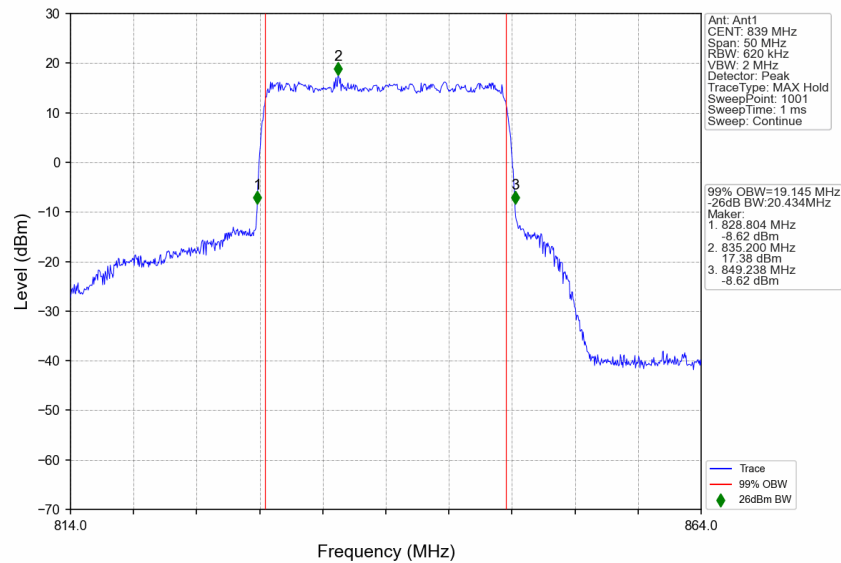
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n5_15kHz_SISO_NTNV_20MHz_CP-OFDM 64 QAM_836.5MHz_Outer_Full



n5_15kHz_SISO_NTNV_20MHz_CP-OFDM 64 QAM_839MHz_Outer_Full



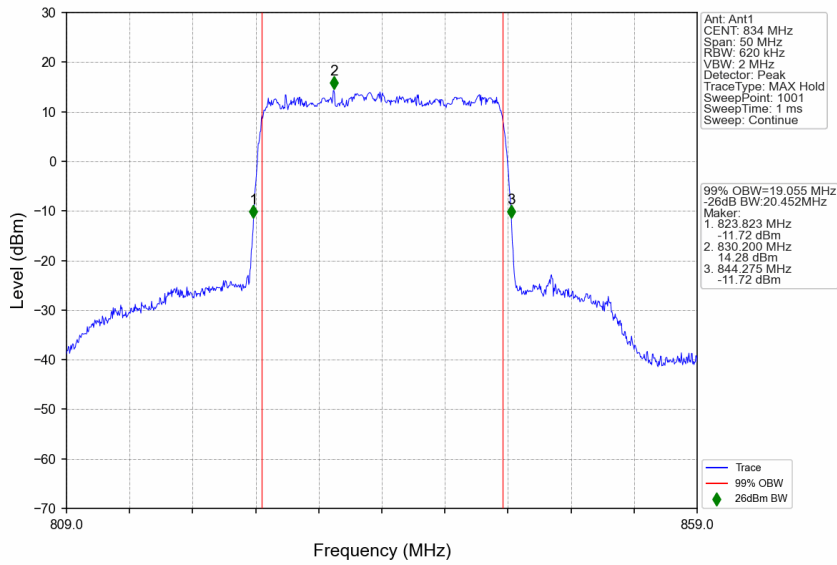
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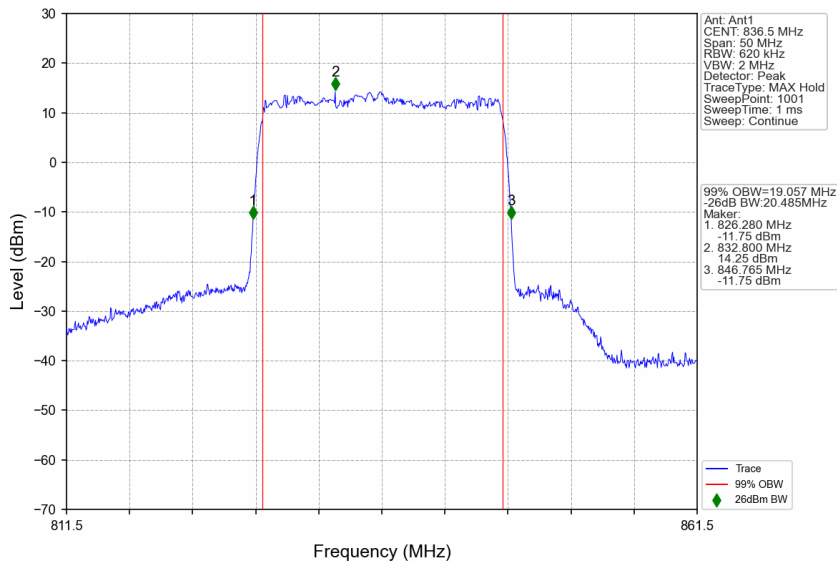
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n5_15kHz_SISO_NTNV_20MHz_CP-OFDM 256 QAM_834MHz_Outer_Full



n5_15kHz_SISO_NTNV_20MHz_CP-OFDM 256 QAM_836.5MHz_Outer_Full

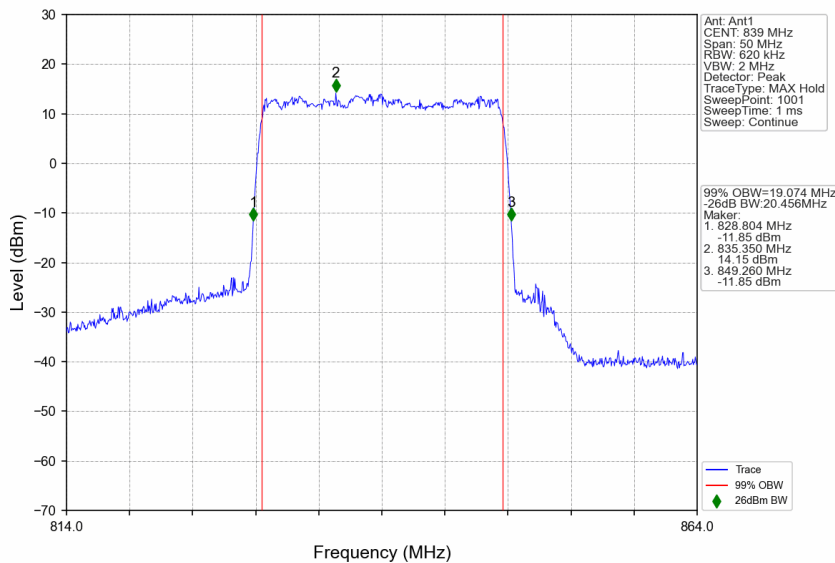


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n5_15kHz_SISO_NTNV_20MHz_CP-OFDM 256 QAM_839MHz_Outer_Full



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4.5 30k_SISO_10MHz_NTNV

4.5.1 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	8.73	9.64	/	Pass
	836.5	Outer_Full	8.71	9.59	/	Pass
	844	Outer_Full	8.73	9.68	/	Pass
DFT-s-OFDM QPSK	829	Outer_Full	8.69	9.54	/	Pass
	836.5	Outer_Full	8.71	9.60	/	Pass
	844	Outer_Full	8.70	9.57	/	Pass
DFT-s-OFDM 16 QAM	829	Outer_Full	8.70	9.56	/	Pass
	836.5	Outer_Full	8.68	9.56	/	Pass
	844	Outer_Full	8.68	9.55	/	Pass
DFT-s-OFDM 64 QAM	829	Outer_Full	8.70	9.59	/	Pass
	836.5	Outer_Full	8.71	9.58	/	Pass
	844	Outer_Full	8.71	9.60	/	Pass
DFT-s-OFDM 256 QAM	829	Outer_Full	8.65	9.51	/	Pass
	836.5	Outer_Full	8.65	9.51	/	Pass
	844	Outer_Full	8.66	9.54	/	Pass
CP-OFDM QPSK	829	Outer_Full	8.74	9.66	/	Pass
	836.5	Outer_Full	8.71	9.67	/	Pass
	844	Outer_Full	8.72	9.62	/	Pass
CP-OFDM 16 QAM	829	Outer_Full	8.69	9.65	/	Pass
	836.5	Outer_Full	8.70	9.63	/	Pass
	844	Outer_Full	8.70	9.67	/	Pass
CP-OFDM 64 QAM	829	Outer_Full	8.69	11.56	/	Pass
	836.5	Outer_Full	8.69	12.63	/	Pass
	844	Outer_Full	8.68	11.29	/	Pass
CP-OFDM 256 QAM	829	Outer_Full	8.72	9.58	/	Pass
	836.5	Outer_Full	8.73	9.63	/	Pass
	844	Outer_Full	8.72	9.60	/	Pass

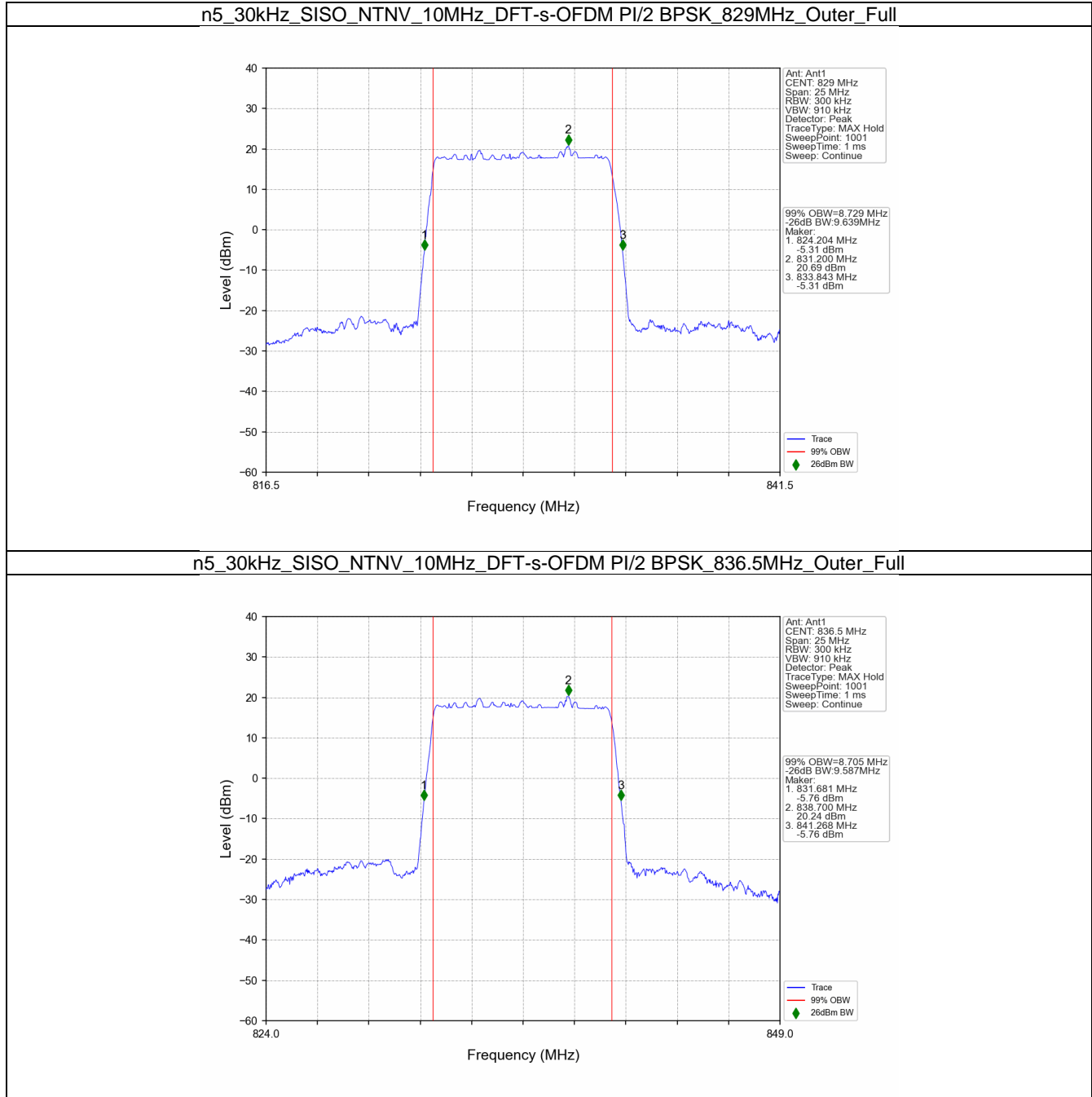


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4.5.2 Test Graph

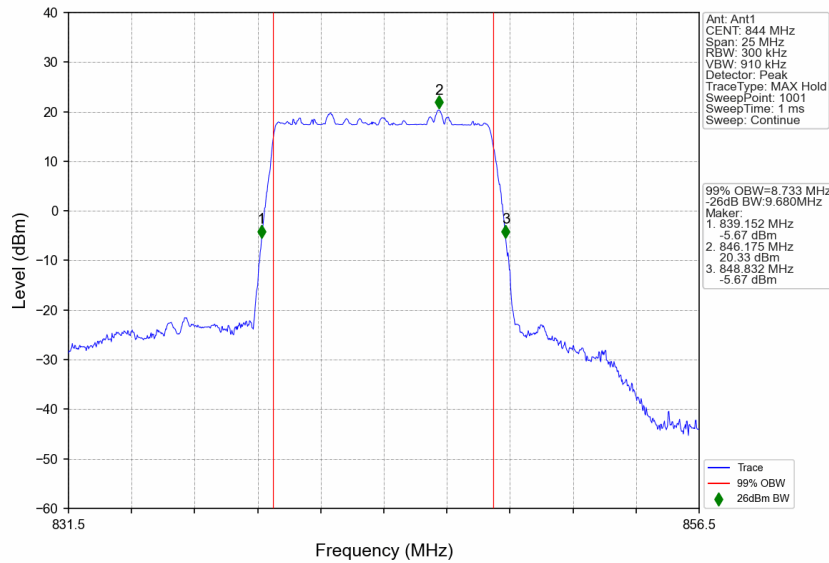


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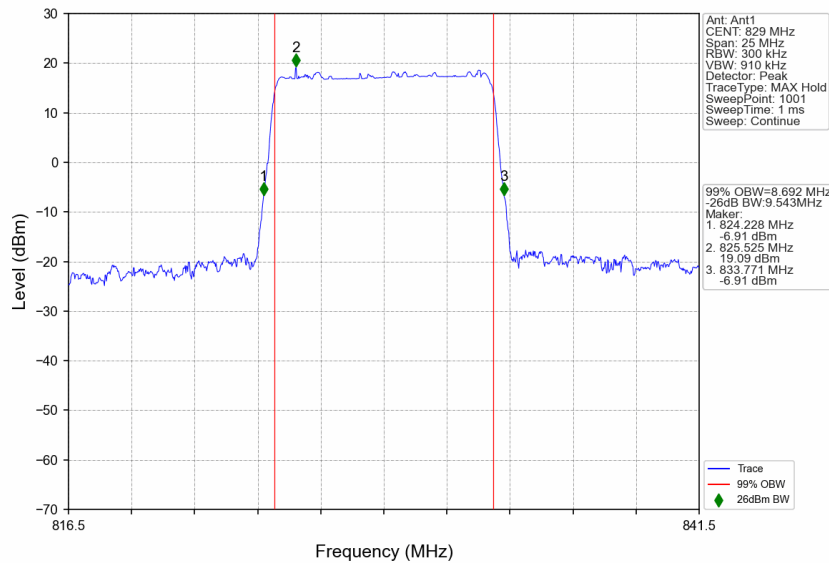
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n5_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_844MHz_Outer_Full



n5_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_829MHz_Outer_Full

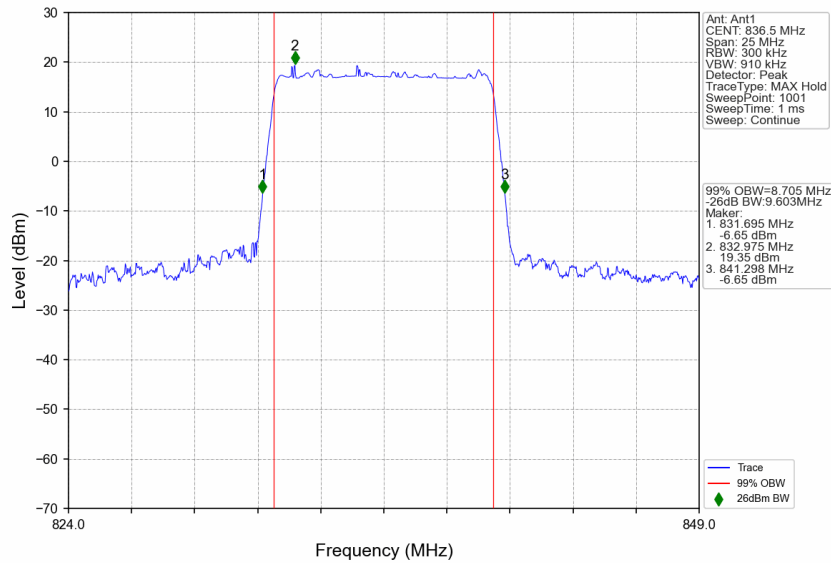


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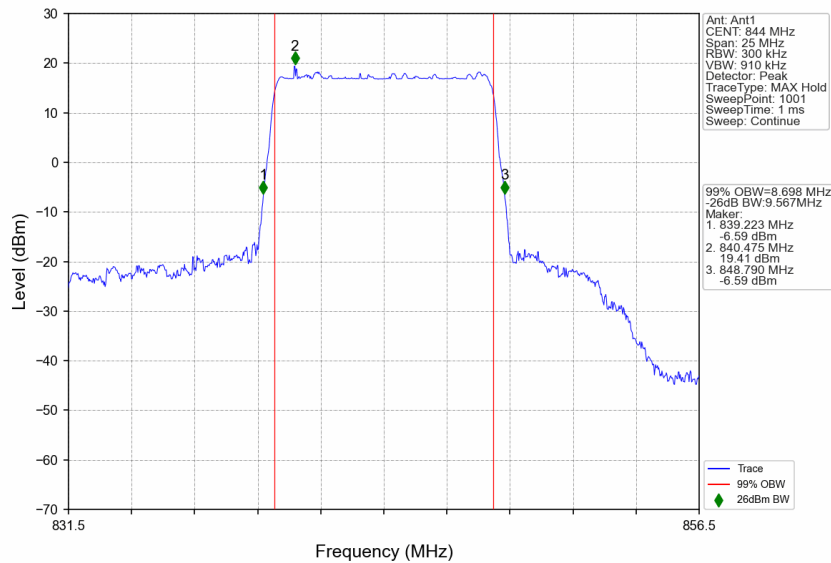
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n5_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_836.5MHz_Outer_Full



n5_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_844MHz_Outer_Full

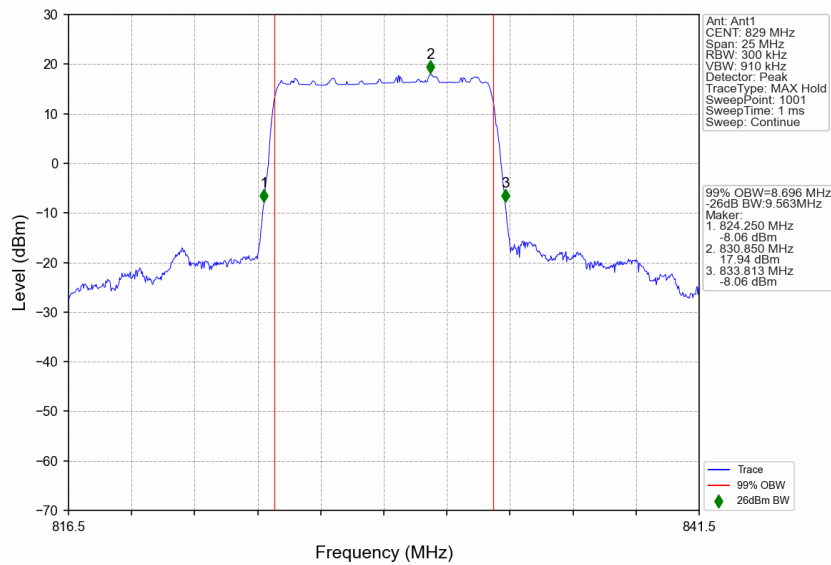


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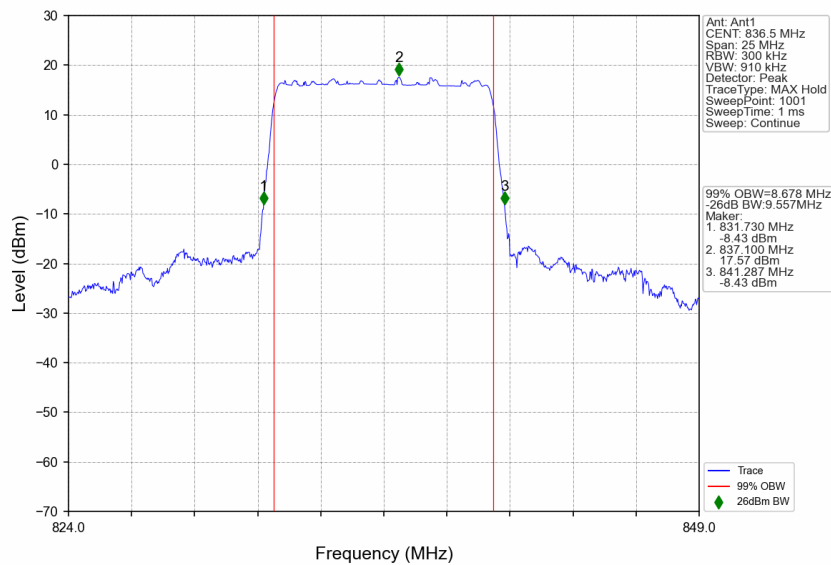
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n5_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 16 QAM_829MHz_Outer_Full



n5_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 16 QAM_836.5MHz_Outer_Full



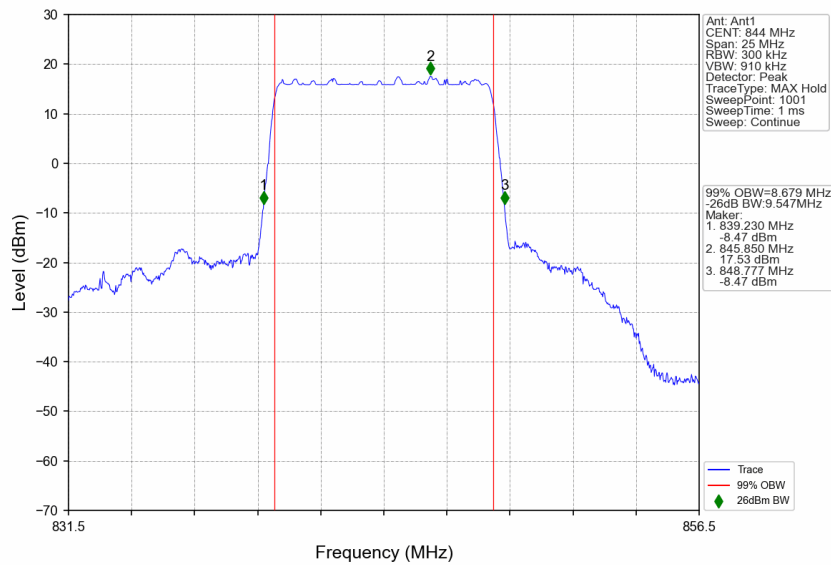
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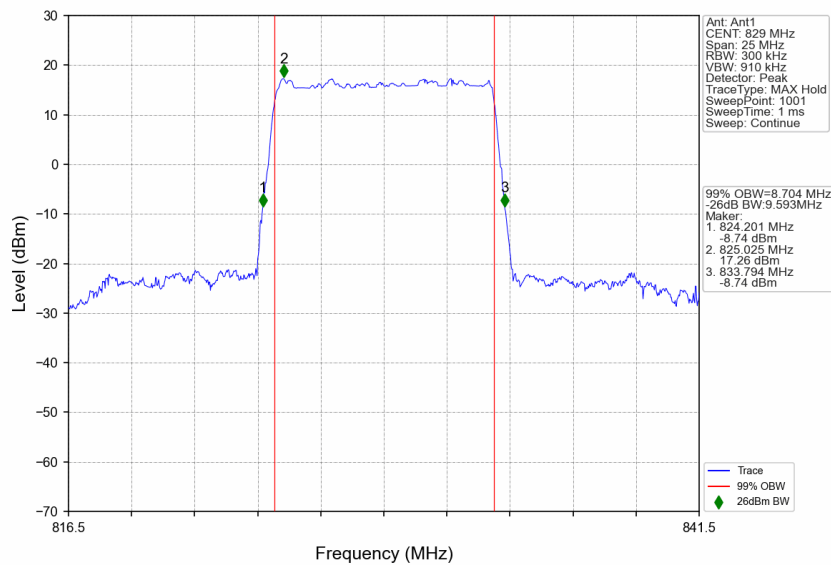
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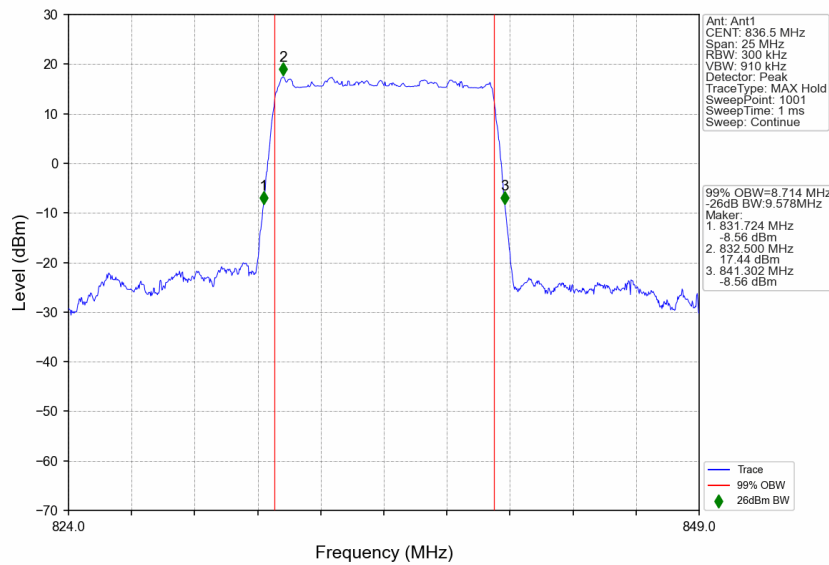


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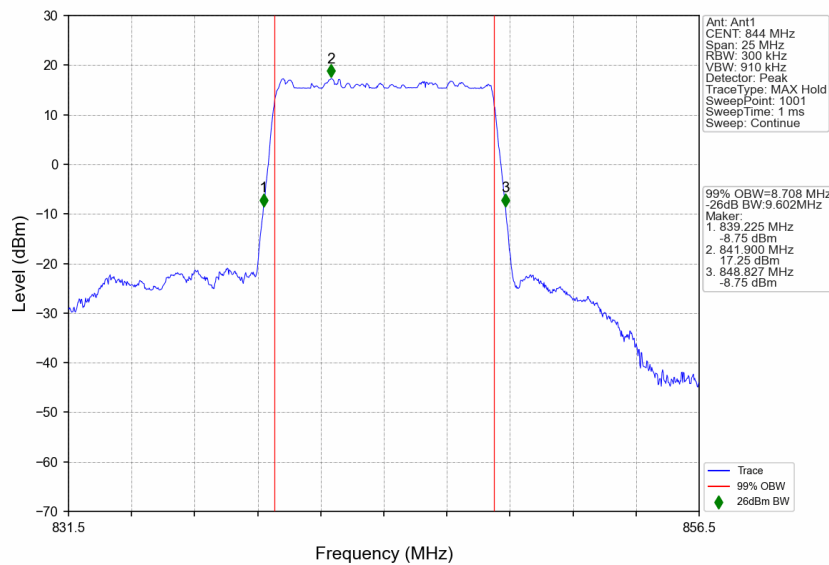
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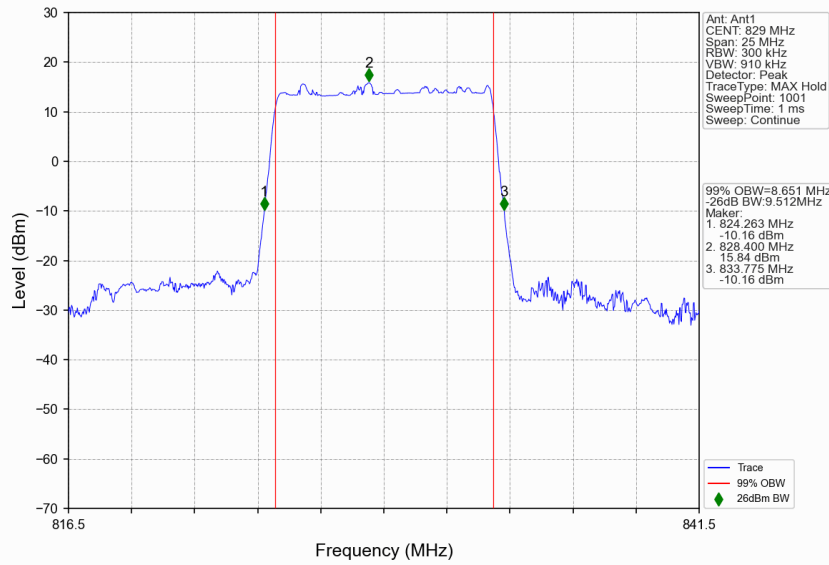
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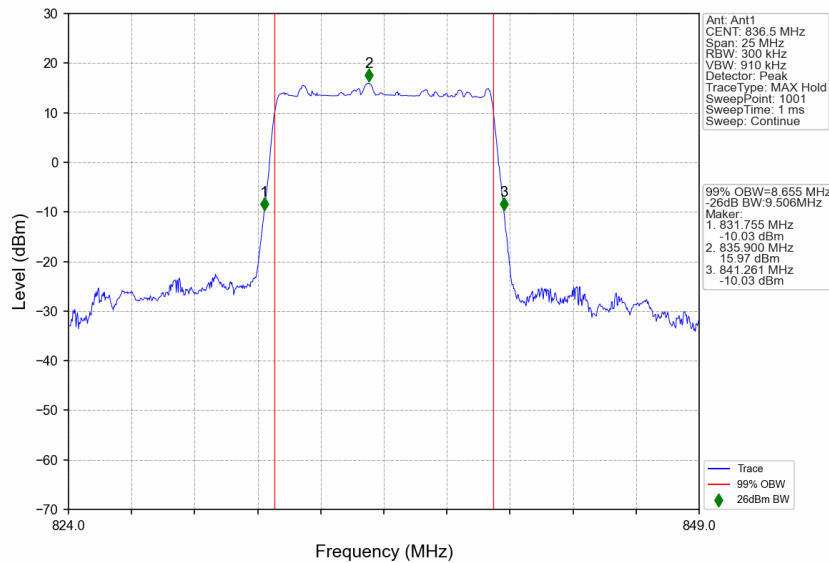
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n5_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 256 QAM_829MHz_Outer_Full



n5_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 256 QAM_836.5MHz_Outer_Full

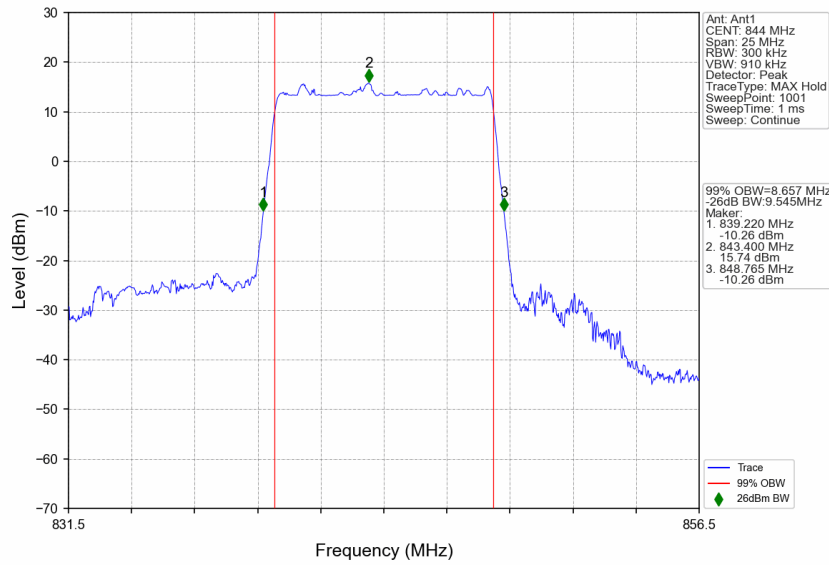


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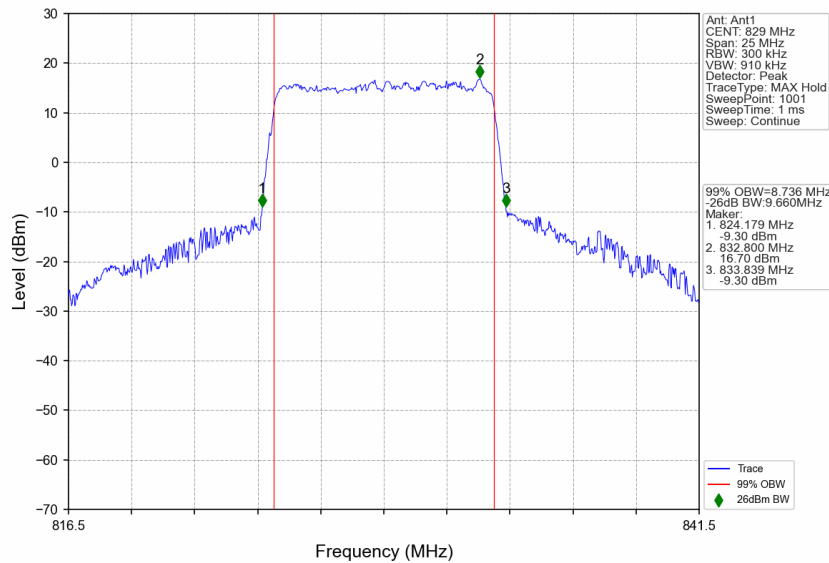
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n5_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 256 QAM_844MHz_Outer_Full



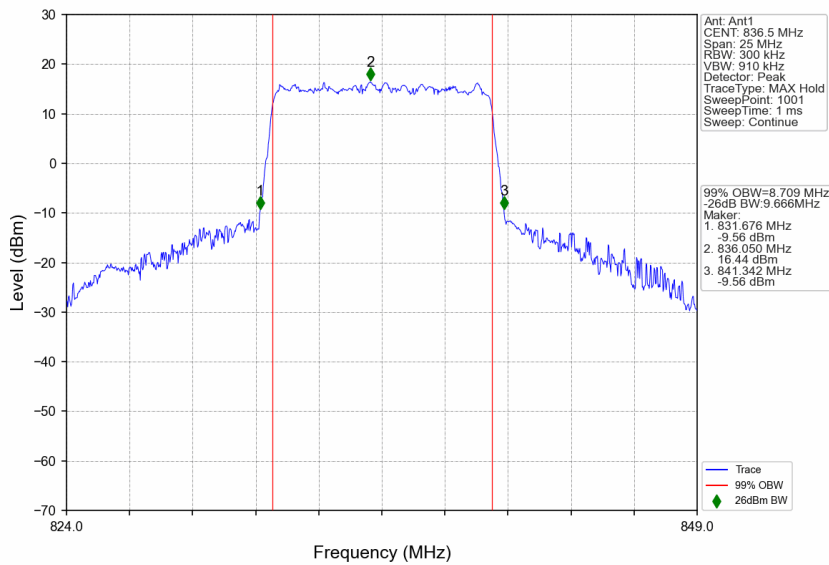
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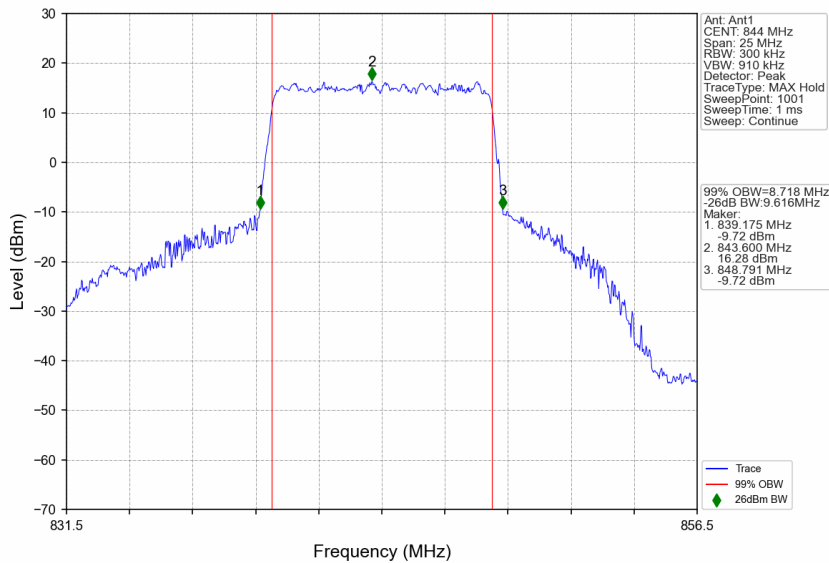
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n5_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_836.5MHz_Outer_Full



n5_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_844MHz_Outer_Full

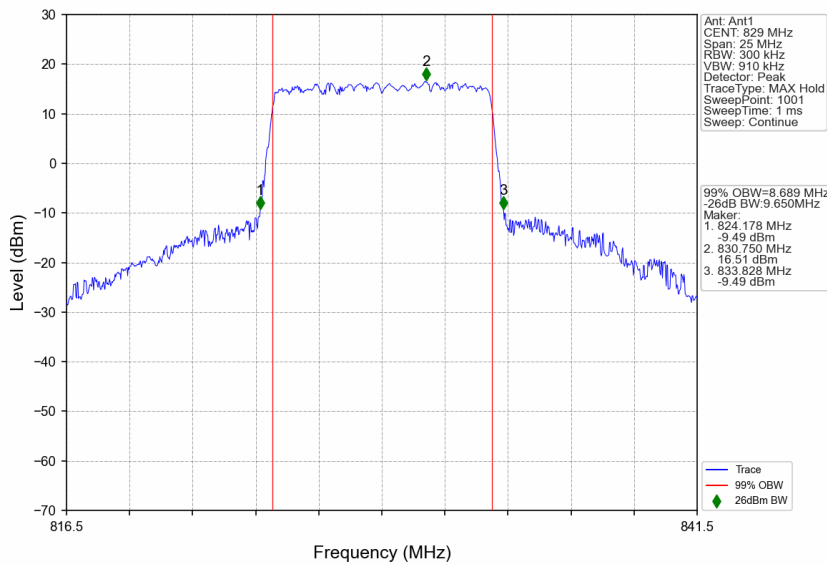


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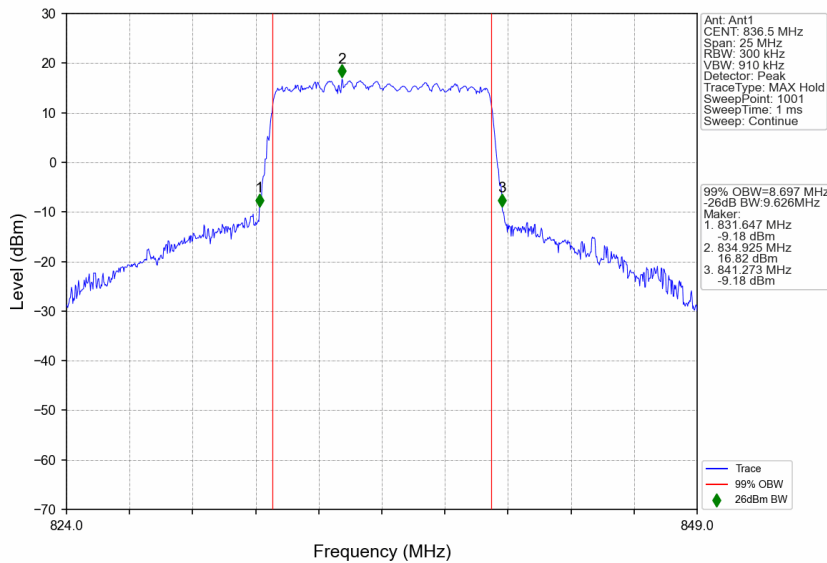
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n5_30kHz_SISO_NTNV_10MHz_CP-OFDM 16 QAM_829MHz_Outer_Full



n5_30kHz_SISO_NTNV_10MHz_CP-OFDM 16 QAM_836.5MHz_Outer_Full



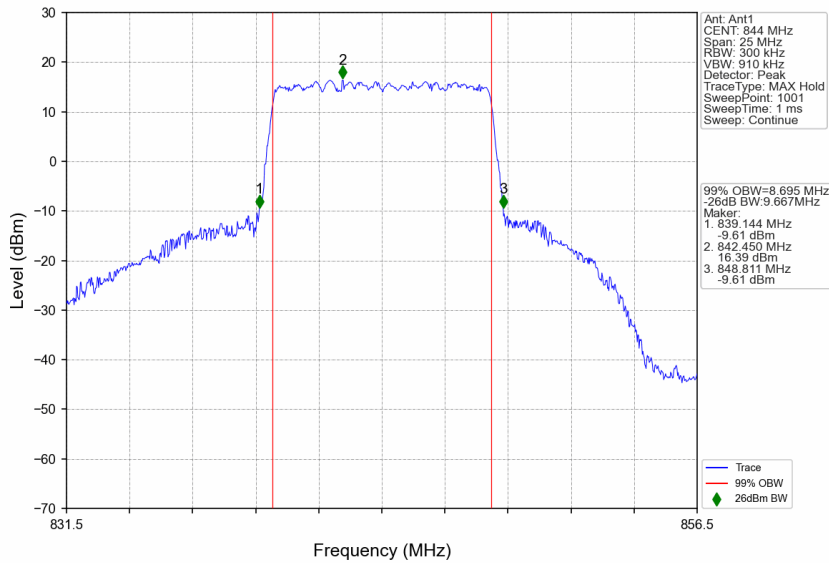
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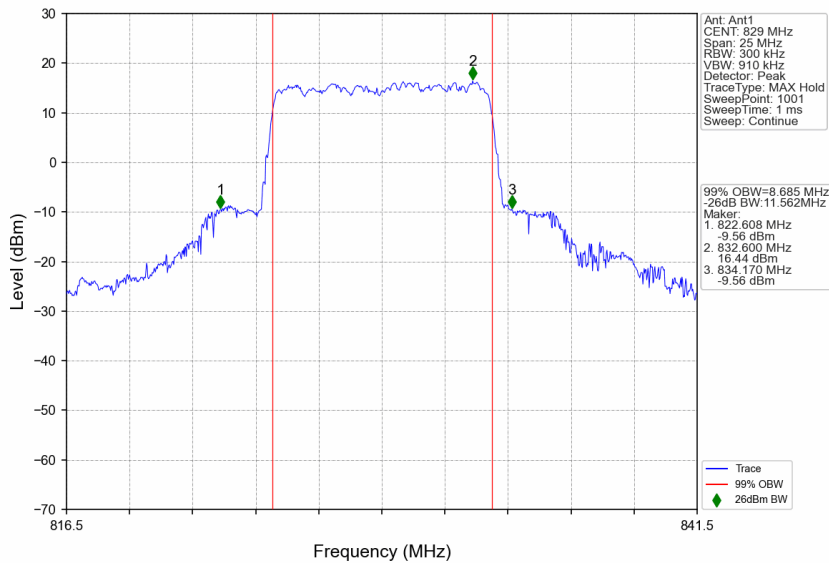
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n5_30kHz_SISO_NTNV_10MHz_CP-OFDM 16 QAM_844MHz_Outer_Full



n5_30kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_829MHz_Outer_Full

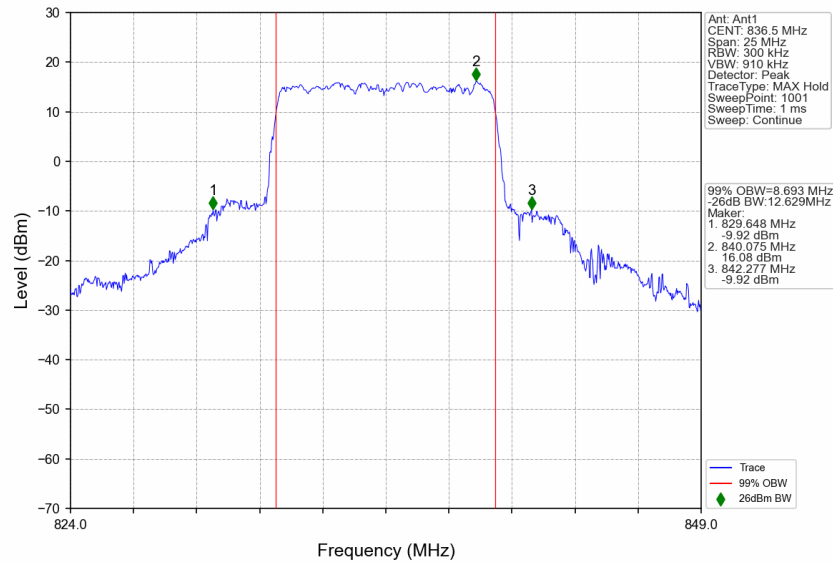


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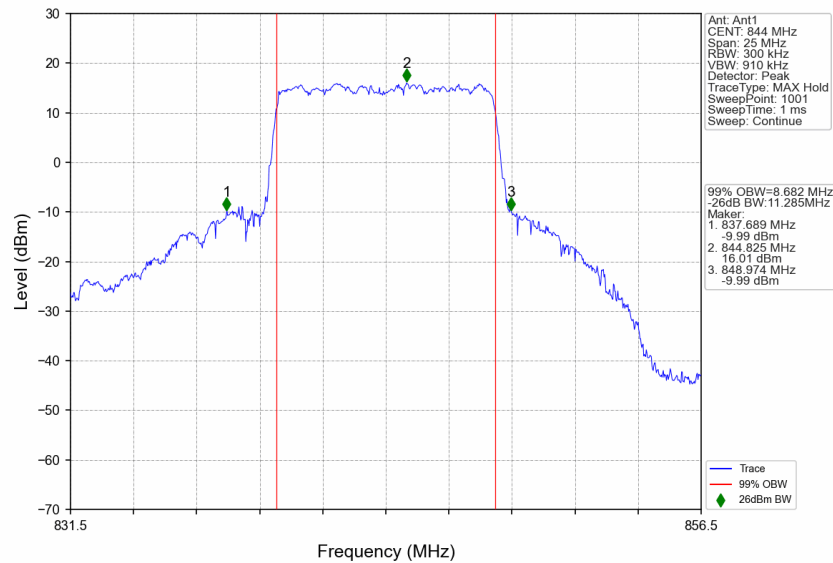
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n5_30kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_836.5MHz_Outer_Full



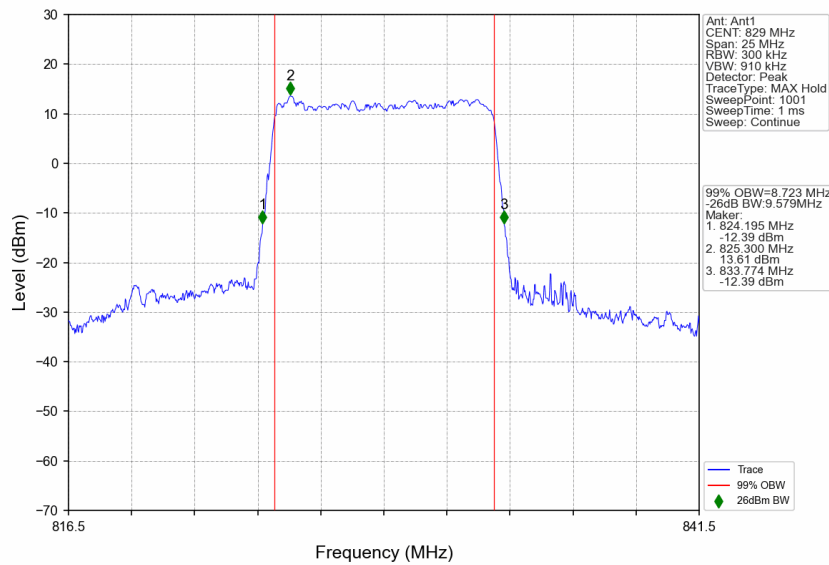
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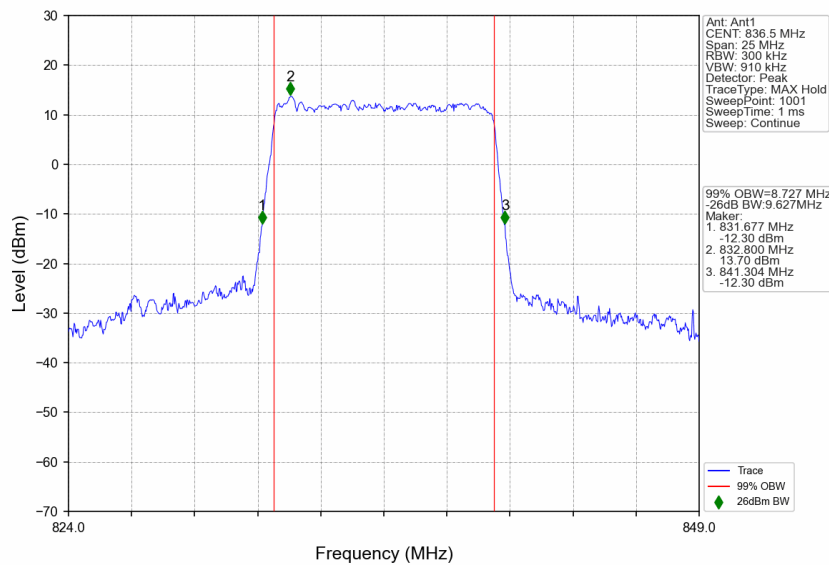
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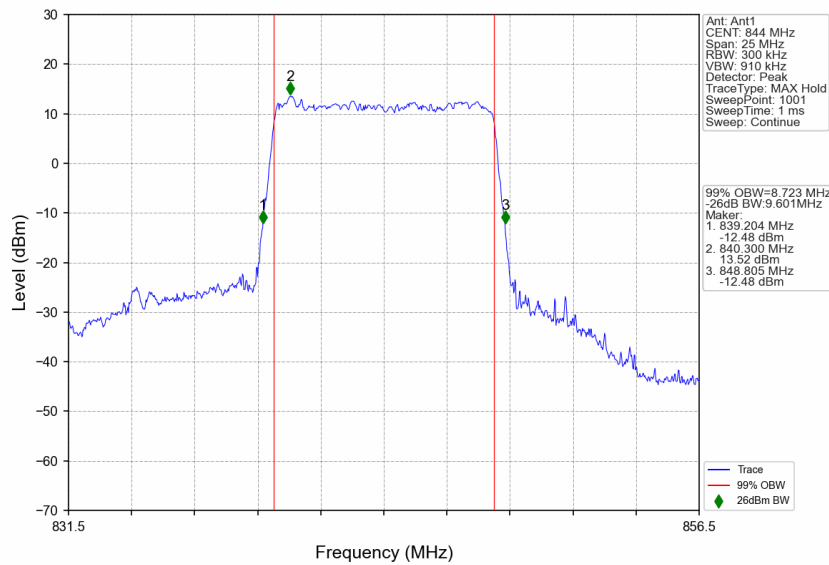


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4.6 30k_SISO_15MHz_NTNV

4.6.1 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	13.12	14.19	/	Pass
	836.5	Outer_Full	13.13	14.22	/	Pass
	841.5	Outer_Full	13.12	14.17	/	Pass
DFT-s-OFDM QPSK	831.5	Outer_Full	13.06	14.28	/	Pass
	836.5	Outer_Full	13.10	14.30	/	Pass
	841.5	Outer_Full	13.10	14.21	/	Pass
DFT-s-OFDM 16 QAM	831.5	Outer_Full	13.01	14.21	/	Pass
	836.5	Outer_Full	13.00	14.22	/	Pass
	841.5	Outer_Full	13.02	14.17	/	Pass
DFT-s-OFDM 64 QAM	831.5	Outer_Full	13.11	14.27	/	Pass
	836.5	Outer_Full	13.11	14.28	/	Pass
	841.5	Outer_Full	13.12	14.29	/	Pass
DFT-s-OFDM 256 QAM	831.5	Outer_Full	12.99	14.13	/	Pass
	836.5	Outer_Full	12.99	14.10	/	Pass
	841.5	Outer_Full	13.00	14.16	/	Pass
CP-OFDM QPSK	831.5	Outer_Full	13.69	14.94	/	Pass
	836.5	Outer_Full	13.72	15.00	/	Pass
	841.5	Outer_Full	13.66	14.92	/	Pass
CP-OFDM 16 QAM	831.5	Outer_Full	13.74	14.93	/	Pass
	836.5	Outer_Full	13.73	14.96	/	Pass
	841.5	Outer_Full	13.73	14.92	/	Pass
CP-OFDM 64 QAM	831.5	Outer_Full	13.76	14.95	/	Pass
	836.5	Outer_Full	13.77	14.94	/	Pass
	841.5	Outer_Full	13.79	15.00	/	Pass
CP-OFDM 256 QAM	831.5	Outer_Full	13.72	14.96	/	Pass
	836.5	Outer_Full	13.71	14.98	/	Pass
	841.5	Outer_Full	13.72	14.97	/	Pass

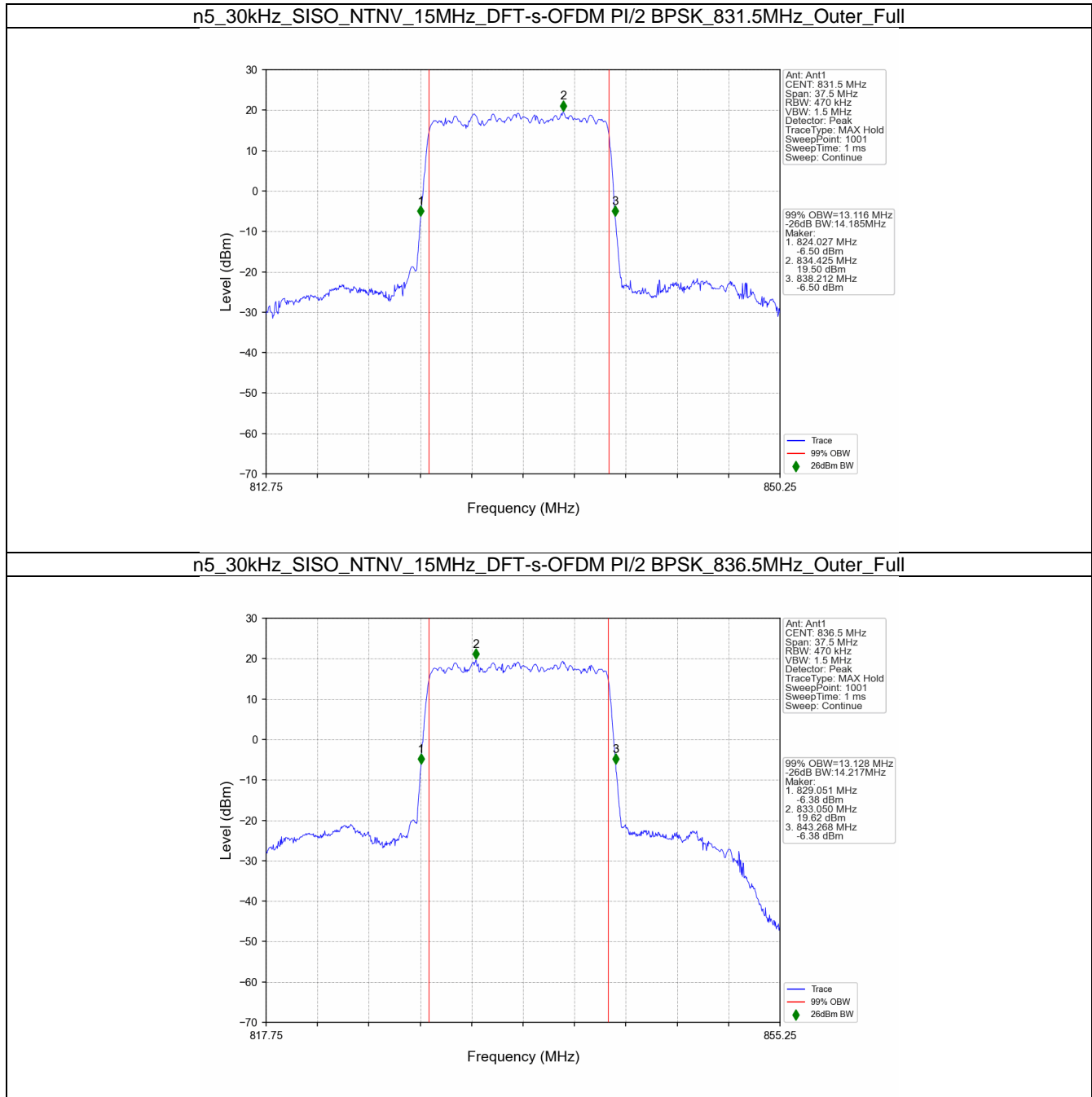


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4.6.2 Test Graph

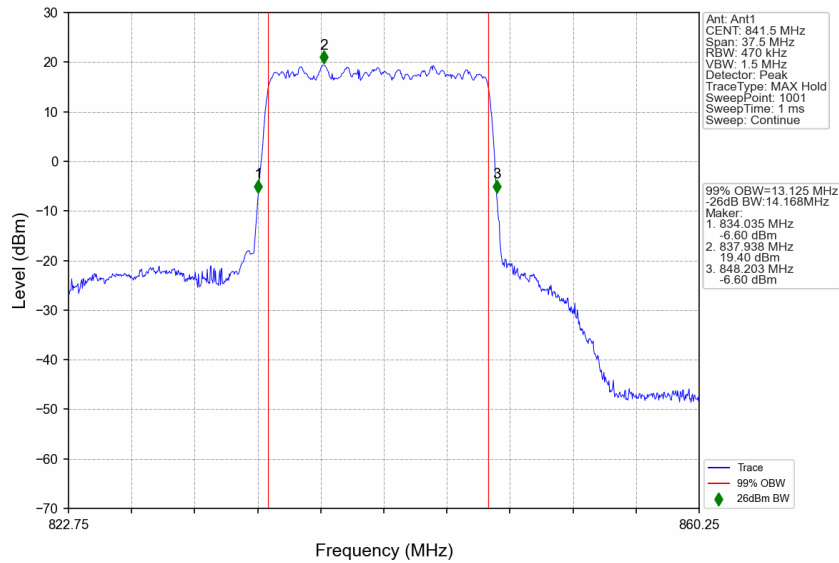


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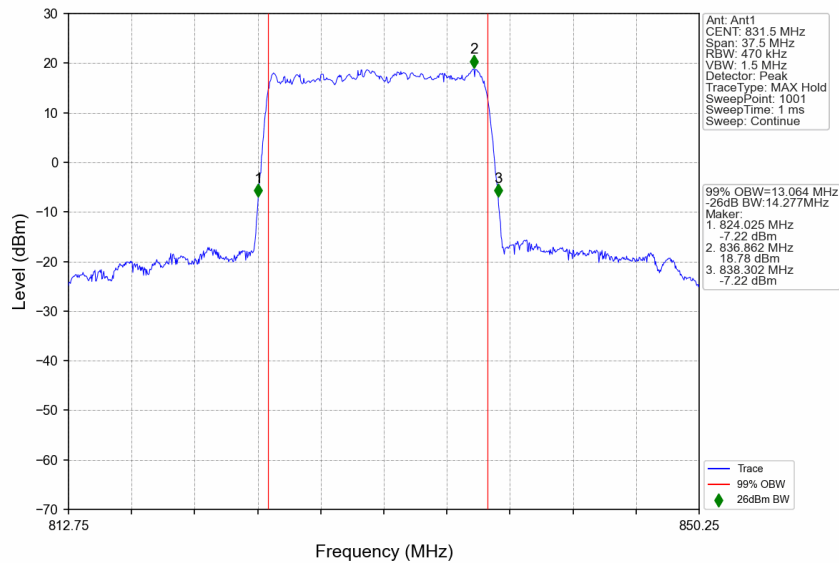
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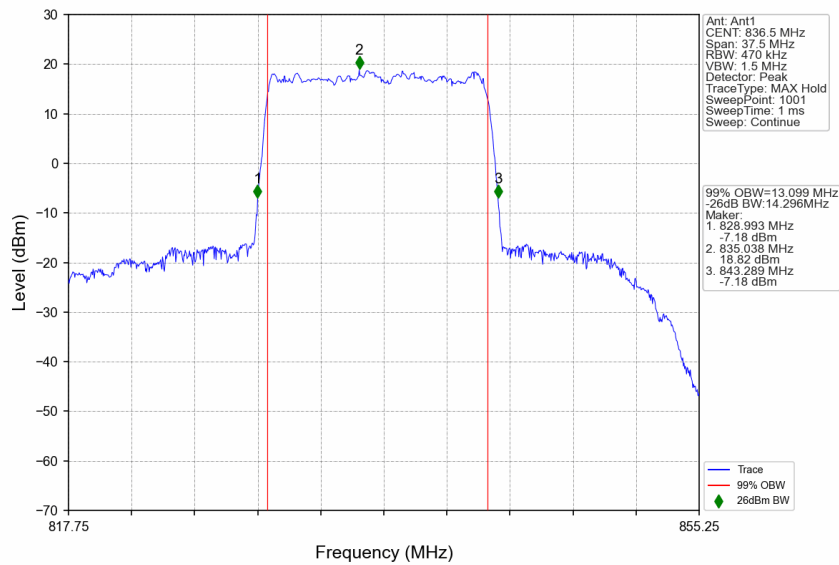


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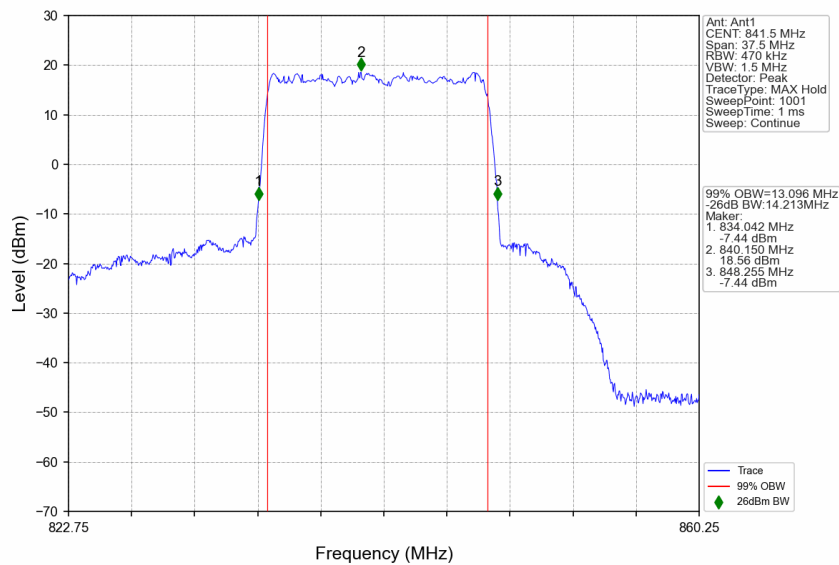
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n5_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_836.5MHz_Outer_Full



n5_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_841.5MHz_Outer_Full

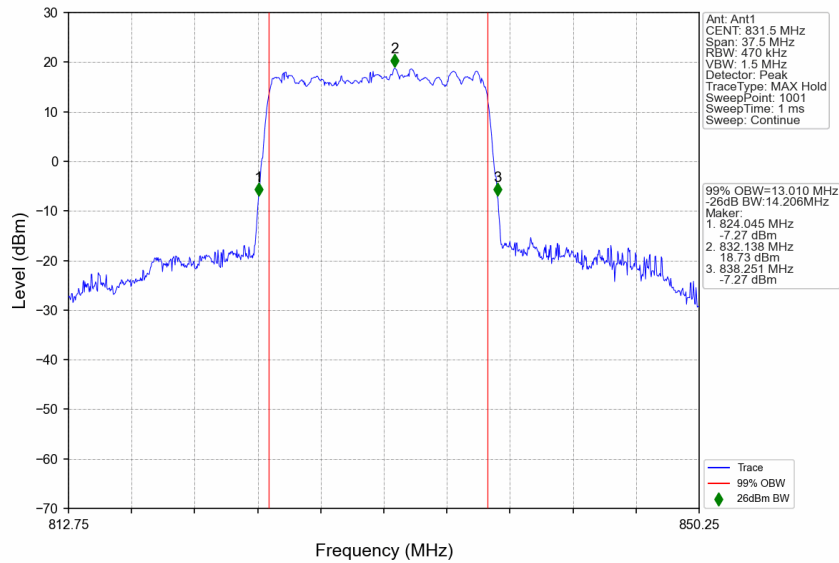


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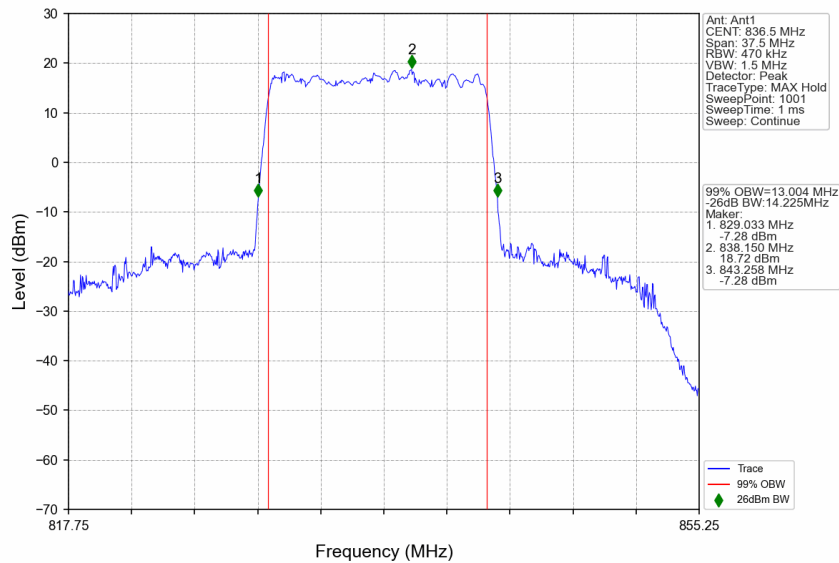
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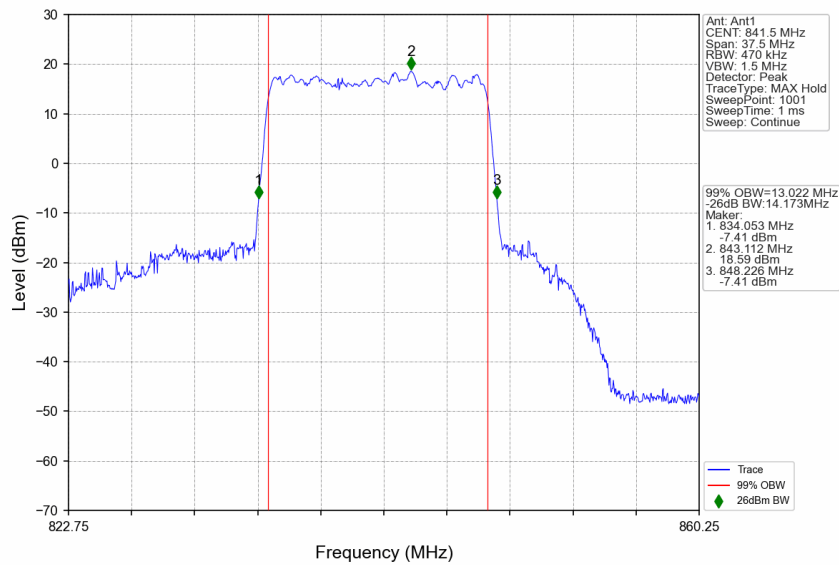


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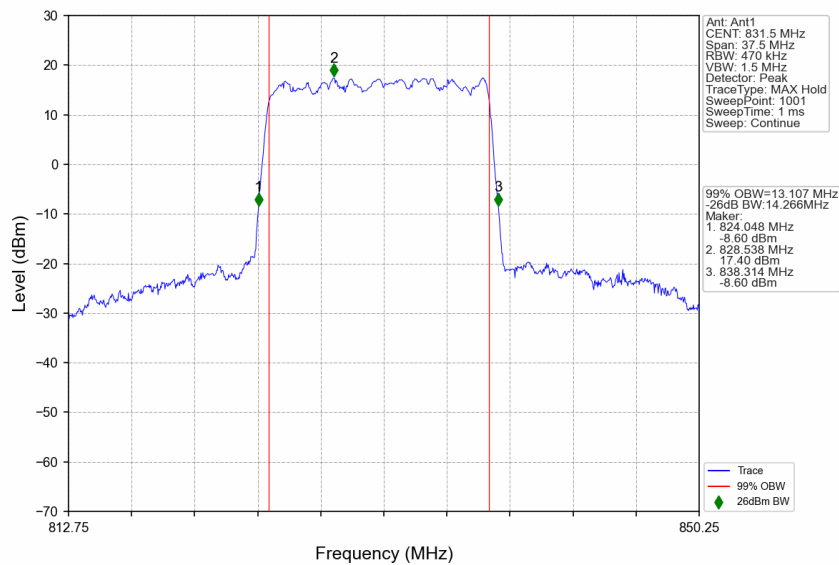
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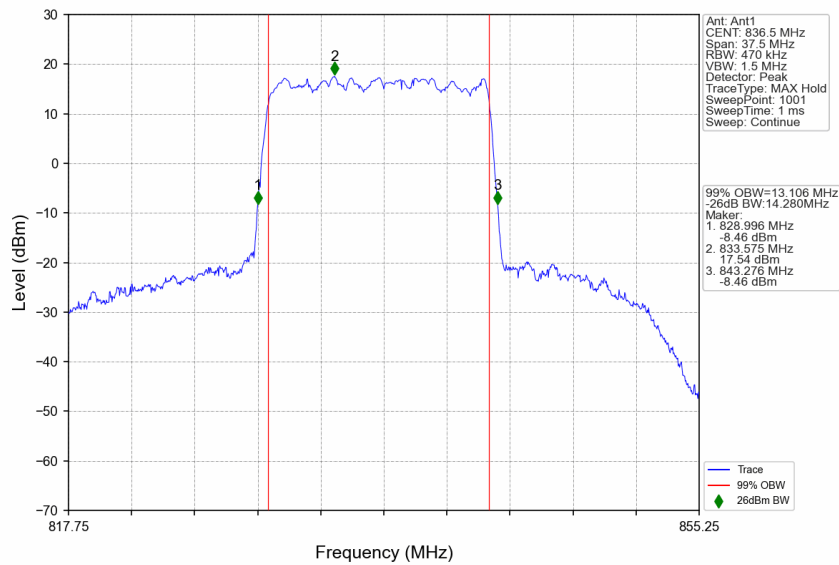


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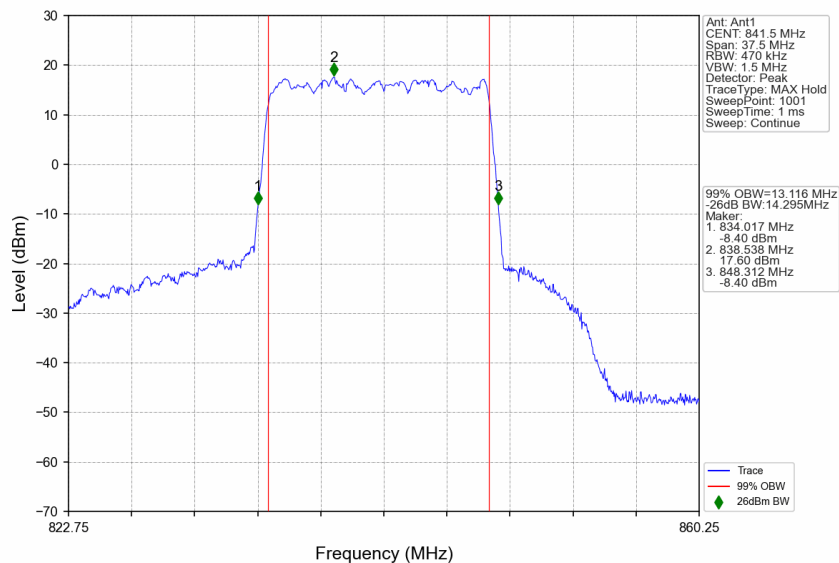
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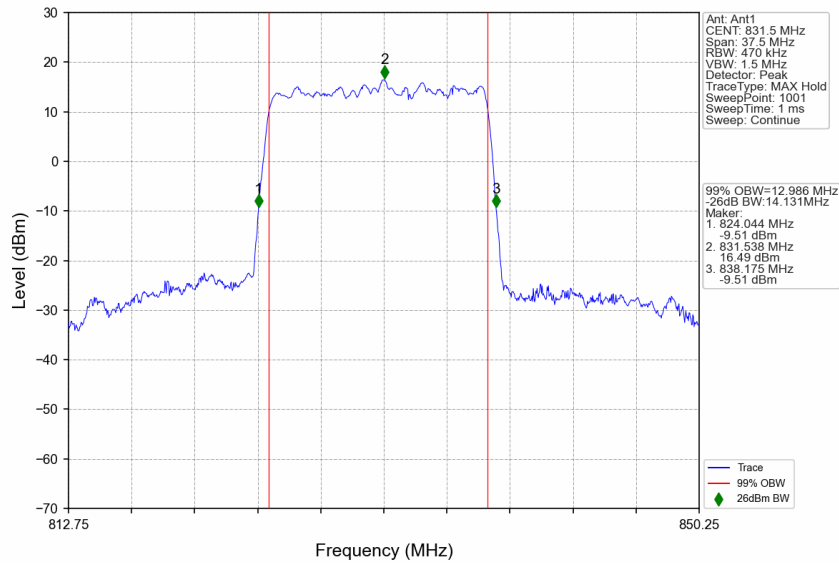


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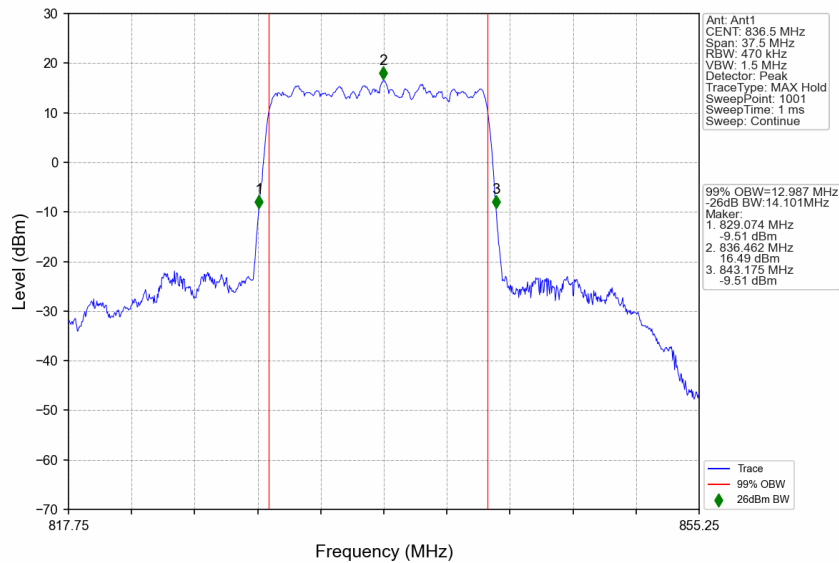
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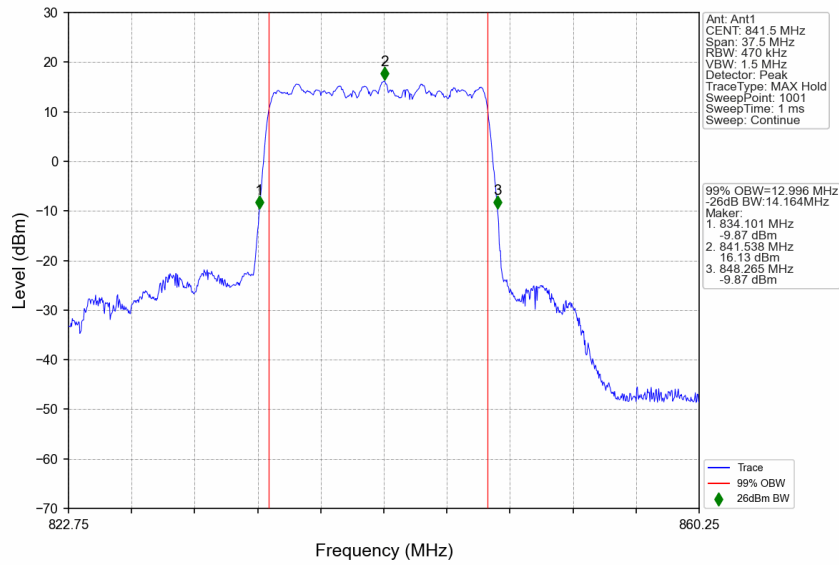


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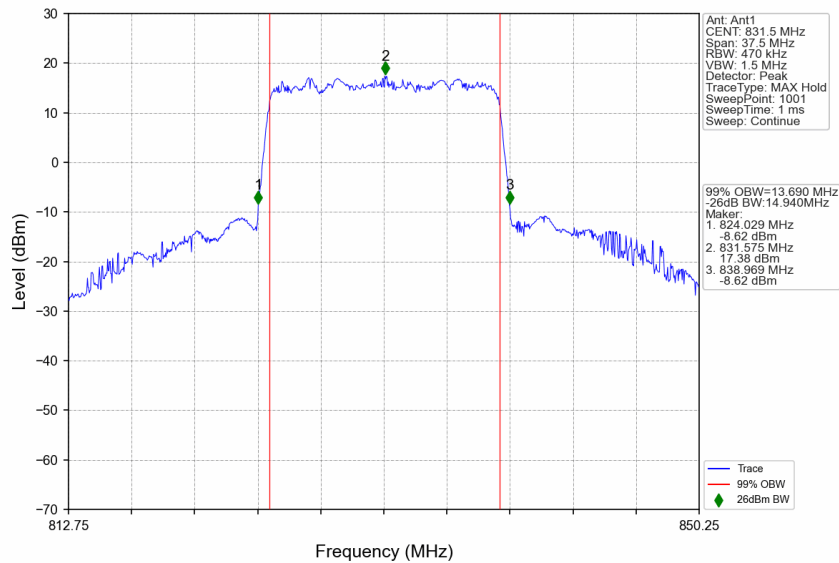
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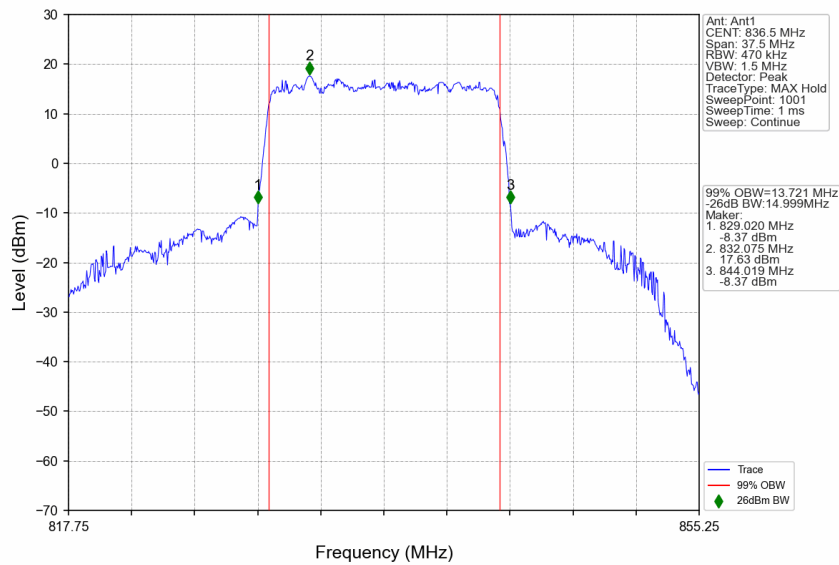


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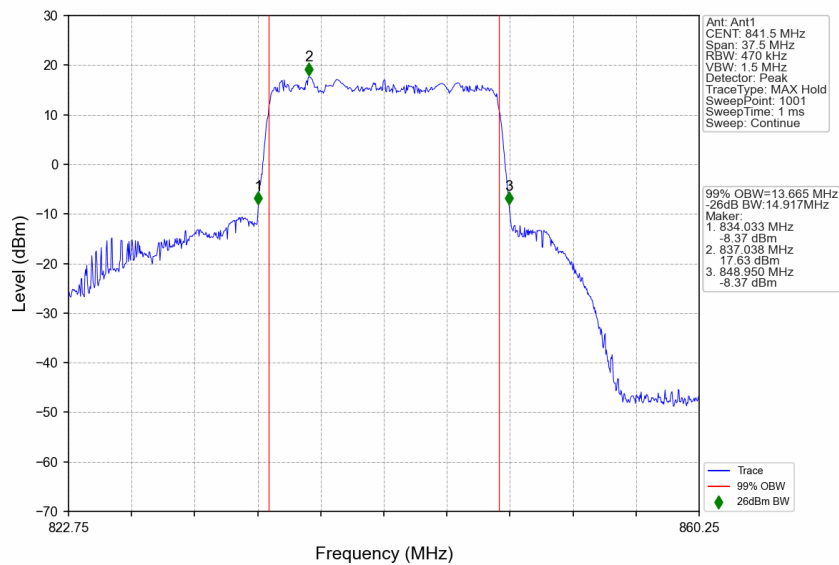
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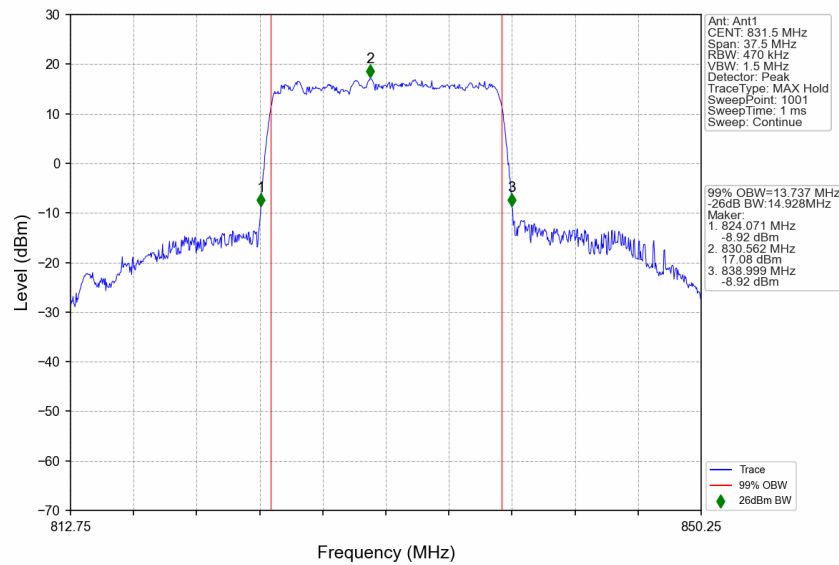


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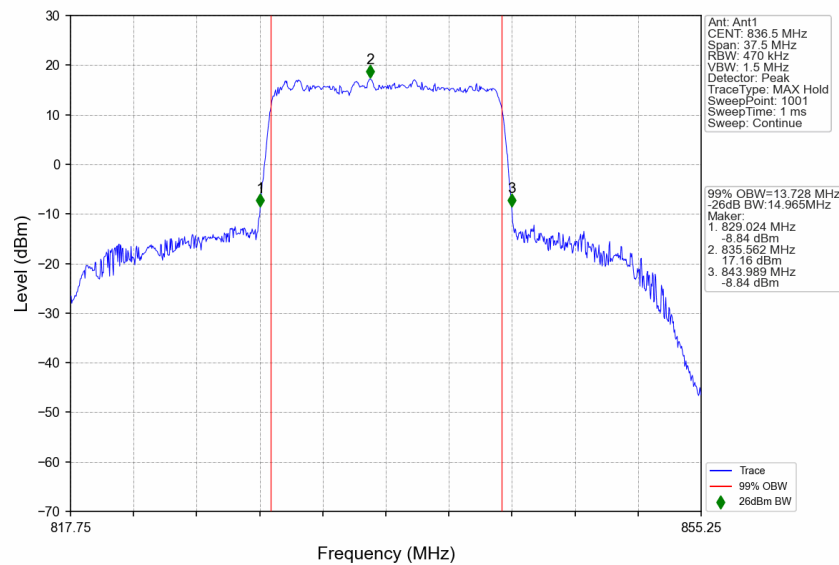
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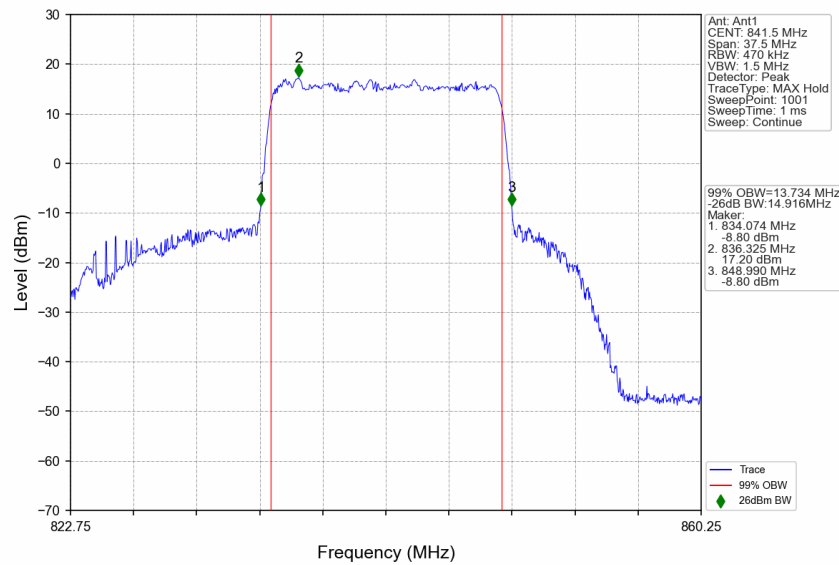


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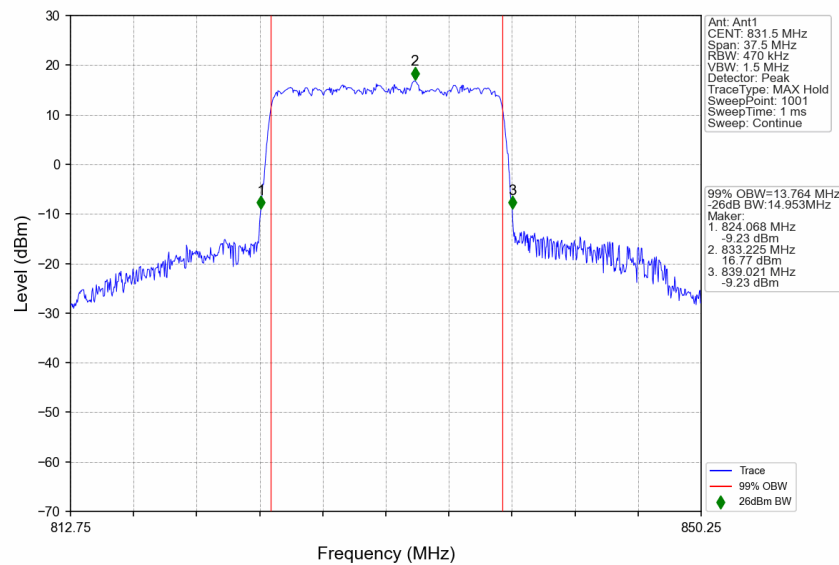
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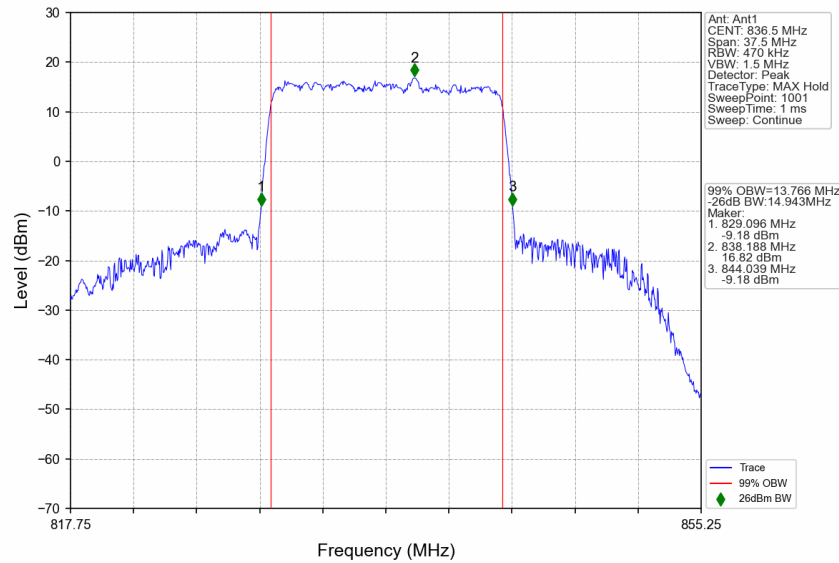
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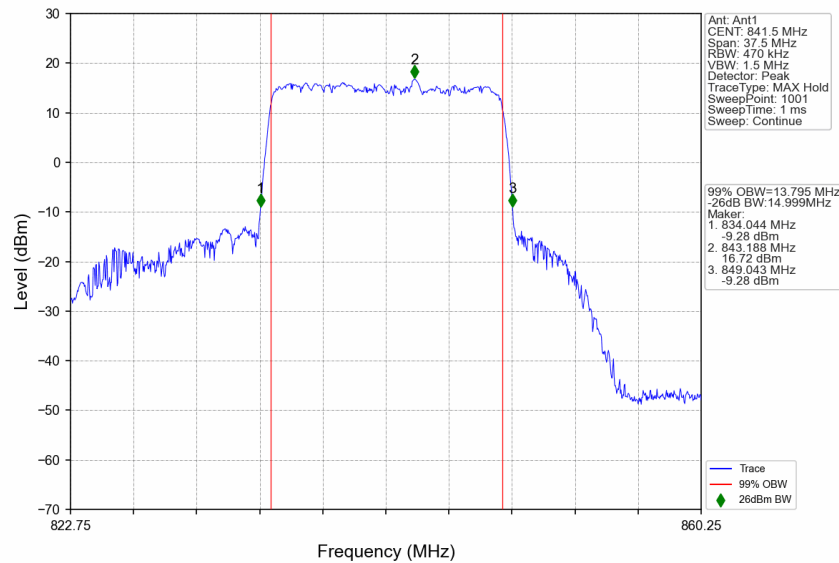
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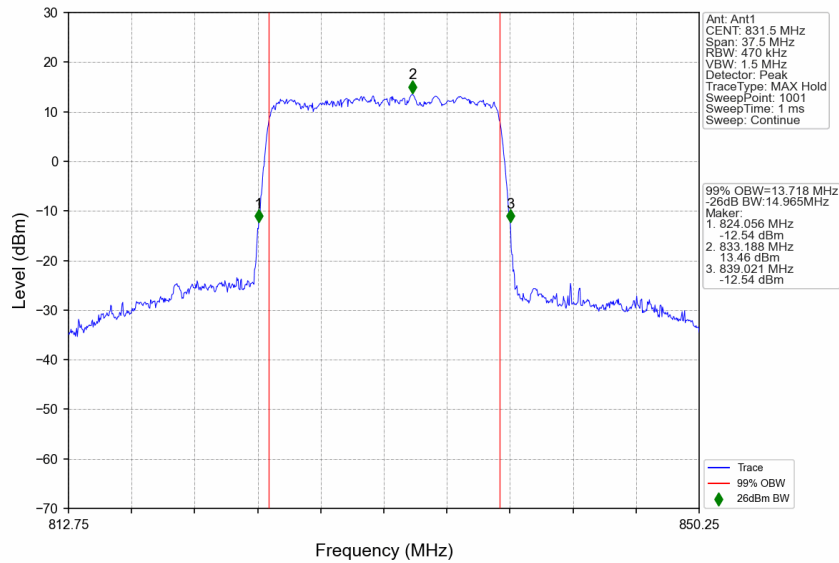


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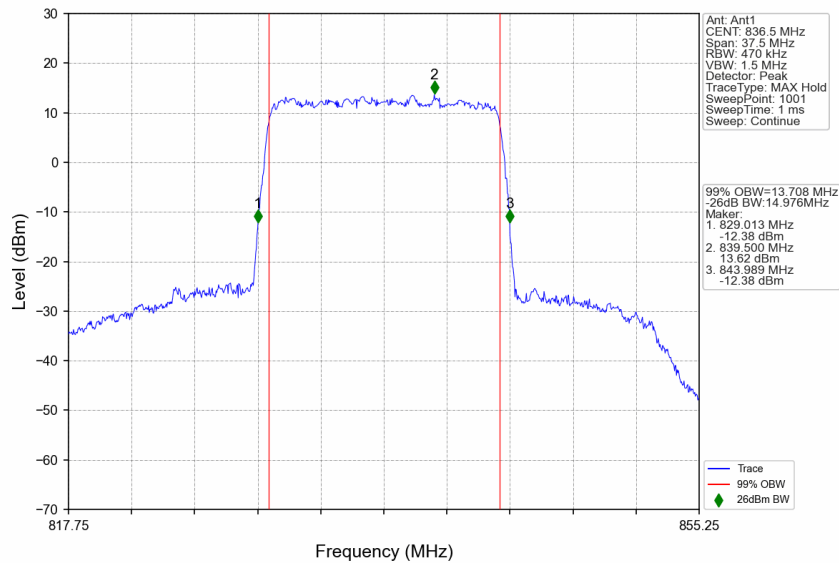
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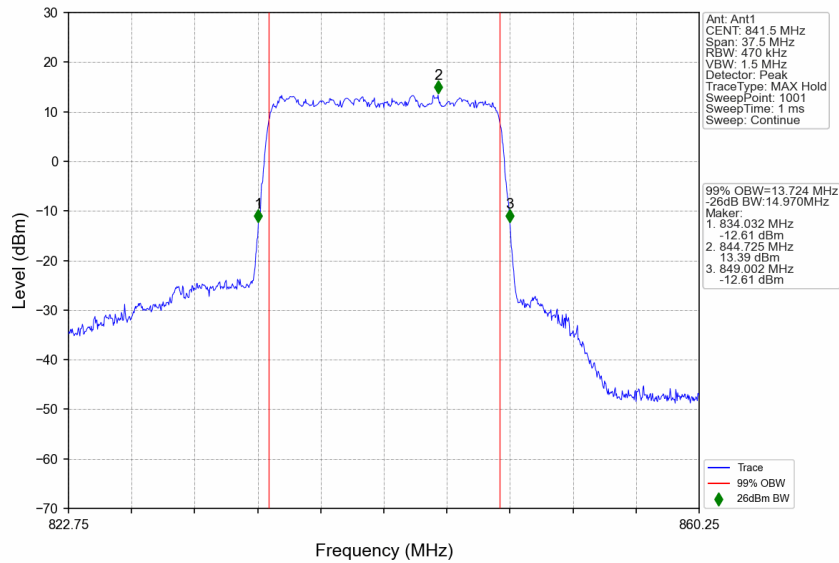


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n5_30kHz_SISO_NTNV_15MHz_CP-OFDM 256 QAM_841.5MHz_Outer_Full



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4.7 30k_SISO_20MHz_NTNV

4.7.1 Test Result

5G NR n5 SCS=30kHz SISO 20MHz NTNv						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	834	Outer_Full	18.18	19.57	/	Pass
	836.5	Outer_Full	18.18	19.60	/	Pass
	839	Outer_Full	18.19	19.55	/	Pass
DFT-s-OFDM QPSK	834	Outer_Full	18.05	19.43	/	Pass
	836.5	Outer_Full	18.04	19.39	/	Pass
	839	Outer_Full	18.06	19.35	/	Pass
DFT-s-OFDM 16 QAM	834	Outer_Full	18.01	19.49	/	Pass
	836.5	Outer_Full	18.00	19.47	/	Pass
	839	Outer_Full	18.02	19.50	/	Pass
DFT-s-OFDM 64 QAM	834	Outer_Full	18.11	19.45	/	Pass
	836.5	Outer_Full	18.10	19.53	/	Pass
	839	Outer_Full	18.11	19.54	/	Pass
DFT-s-OFDM 256 QAM	834	Outer_Full	18.00	19.41	/	Pass
	836.5	Outer_Full	18.00	19.47	/	Pass
	839	Outer_Full	18.01	19.36	/	Pass
CP-OFDM QPSK	834	Outer_Full	18.38	23.59	/	Pass
	836.5	Outer_Full	18.40	22.77	/	Pass
	839	Outer_Full	18.40	20.52	/	Pass
CP-OFDM 16 QAM	834	Outer_Full	18.42	19.80	/	Pass
	836.5	Outer_Full	18.42	20.14	/	Pass
	839	Outer_Full	18.44	21.01	/	Pass
CP-OFDM 64 QAM	834	Outer_Full	18.41	19.86	/	Pass
	836.5	Outer_Full	18.39	19.83	/	Pass
	839	Outer_Full	18.42	19.82	/	Pass
CP-OFDM 256 QAM	834	Outer_Full	18.36	19.81	/	Pass
	836.5	Outer_Full	18.36	19.78	/	Pass
	839	Outer_Full	18.38	19.85	/	Pass

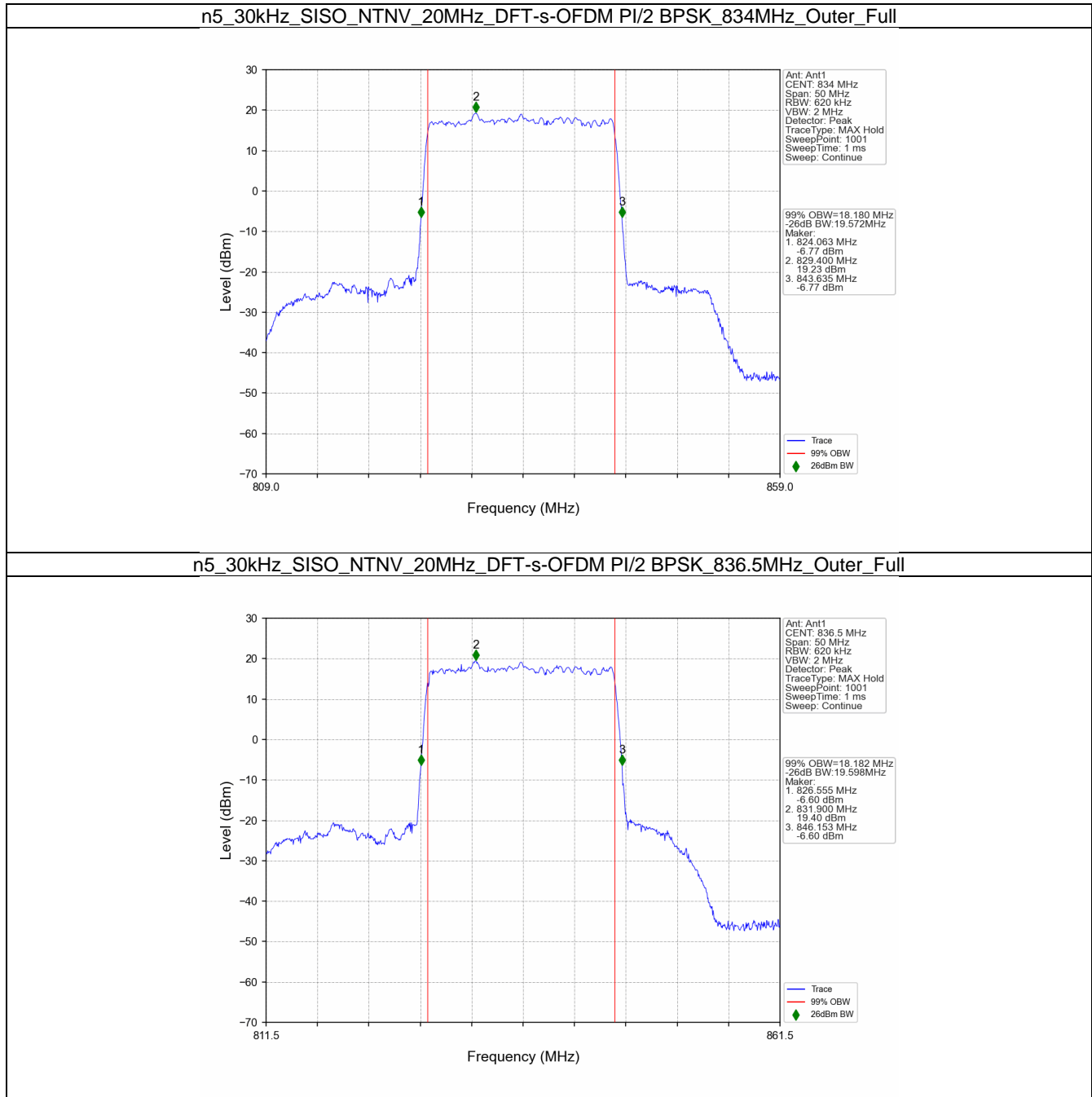


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4.7.2 Test Graph

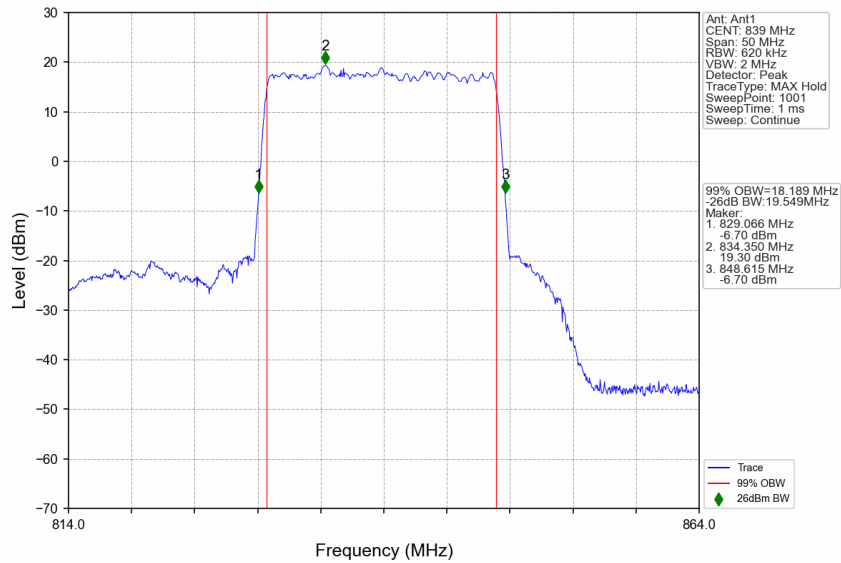


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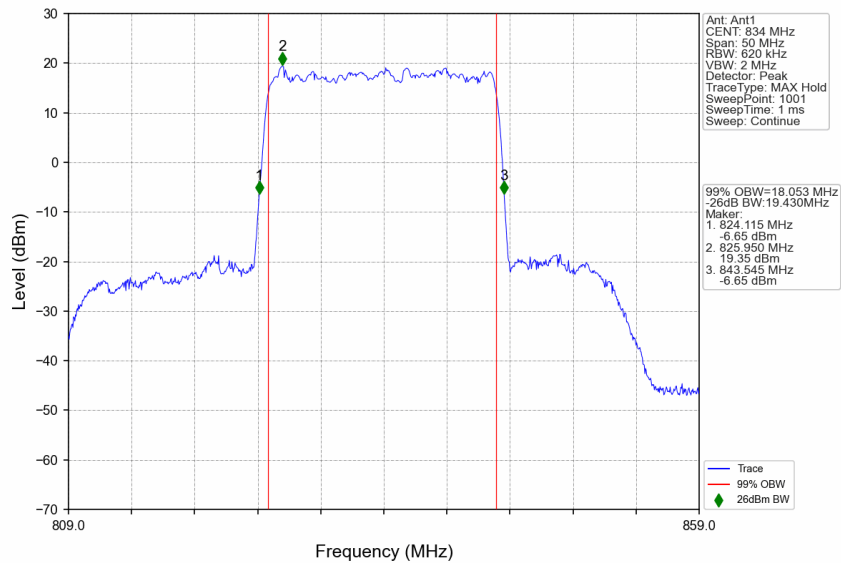
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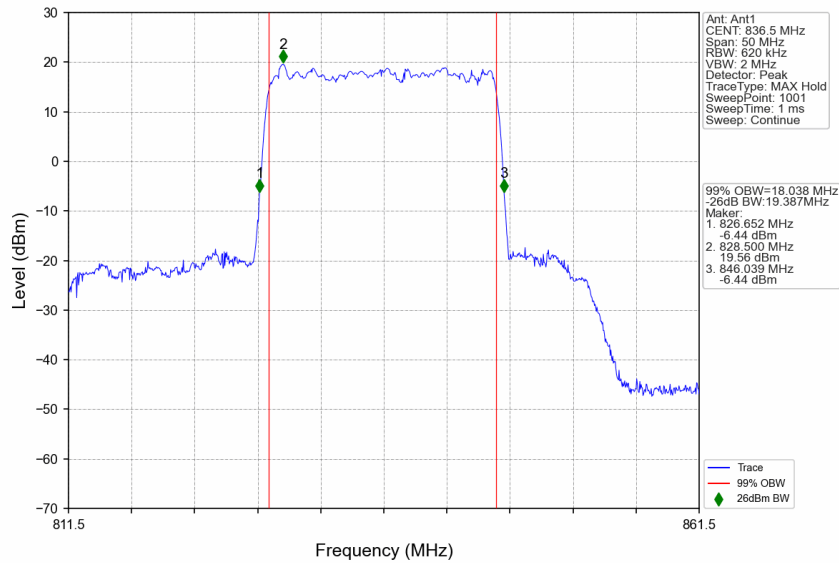


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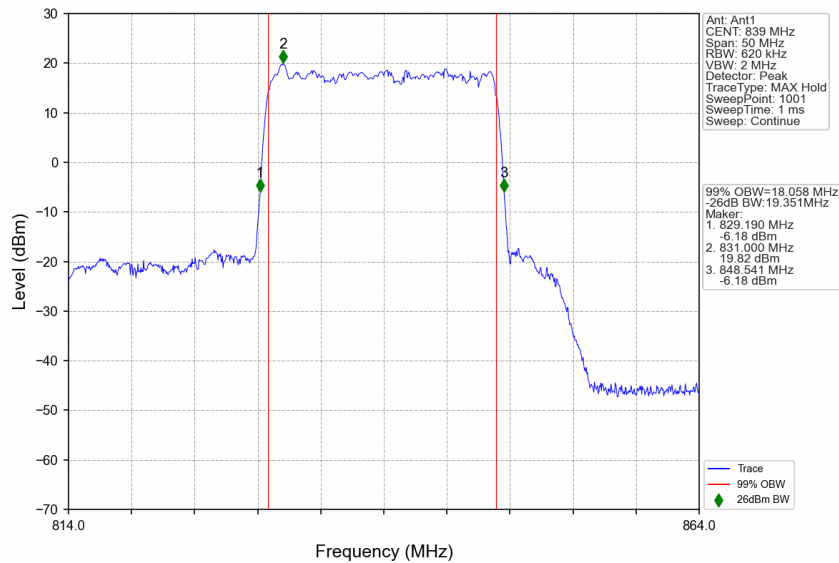
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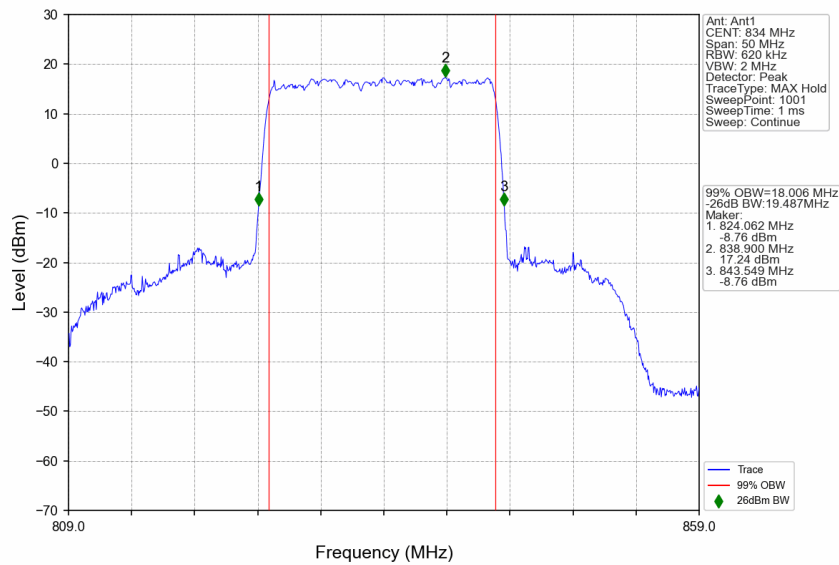


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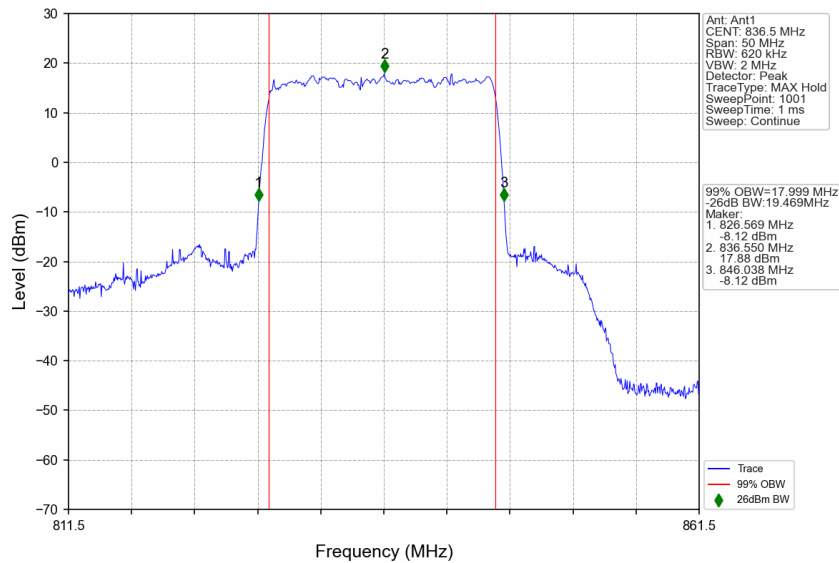
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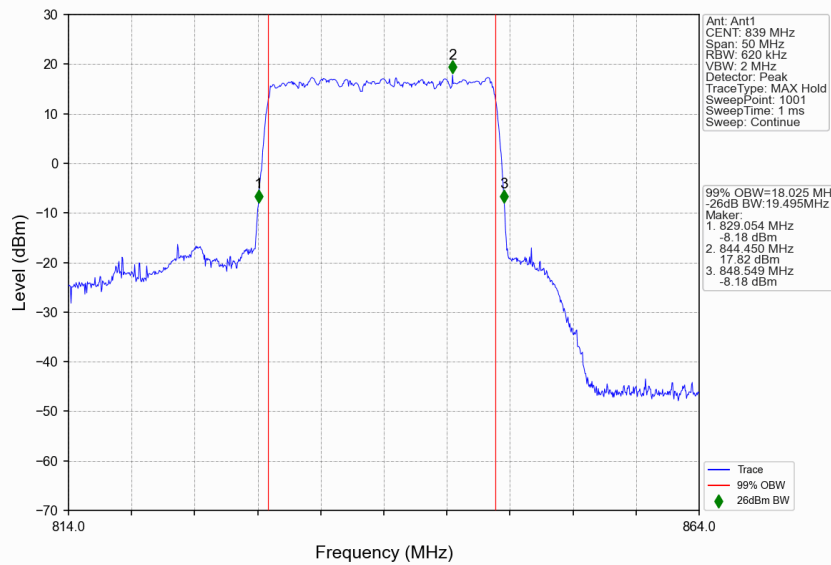
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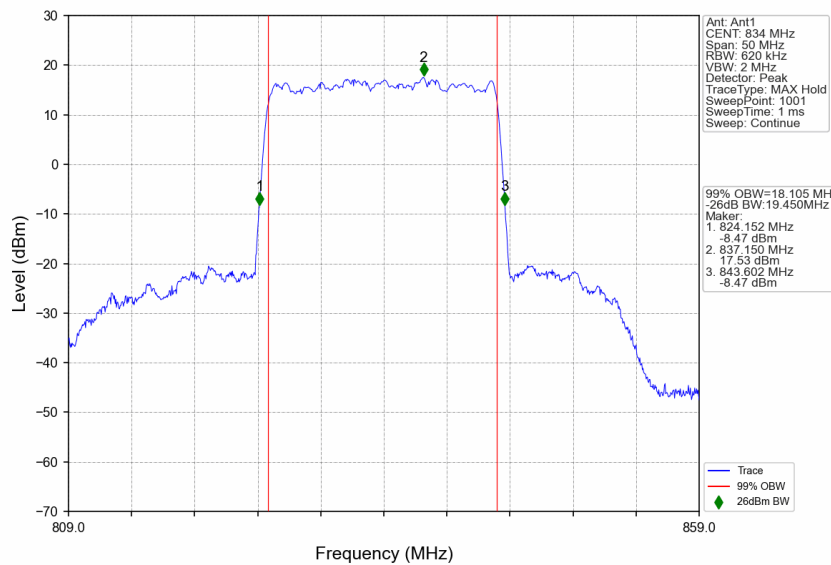
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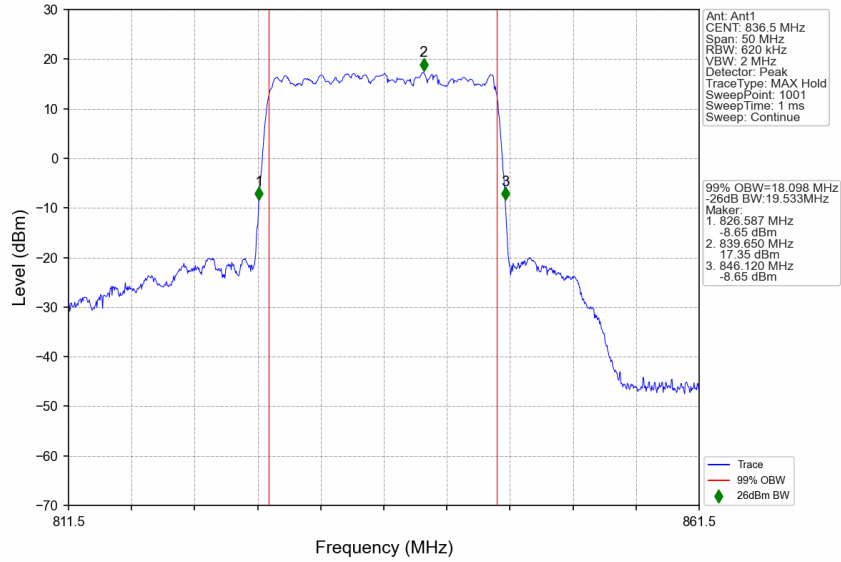


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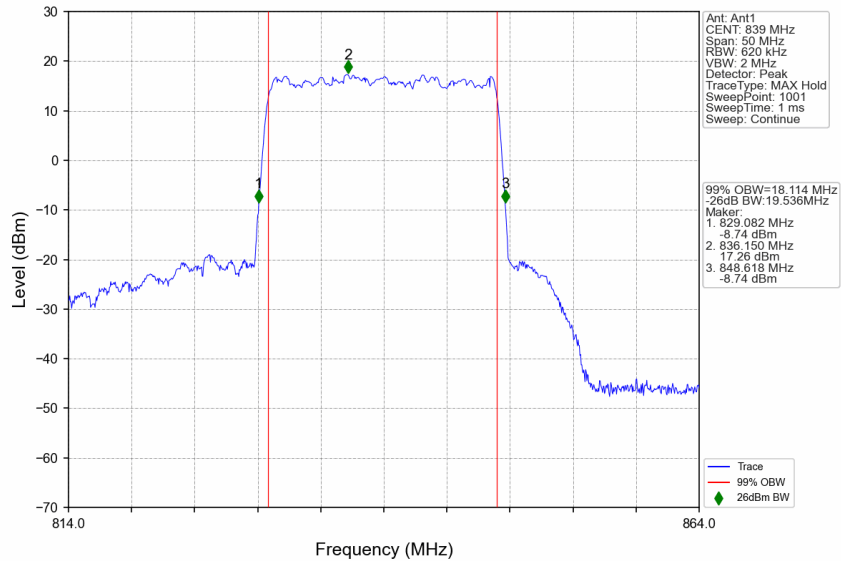
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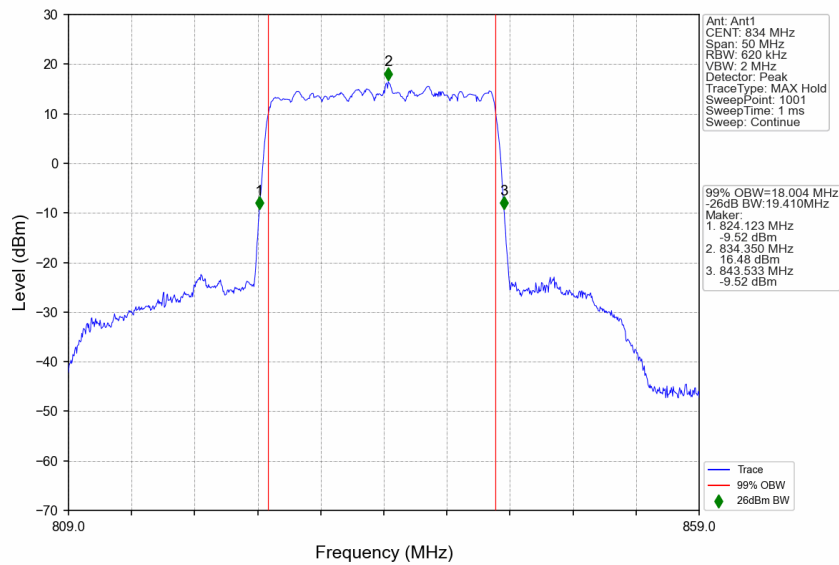


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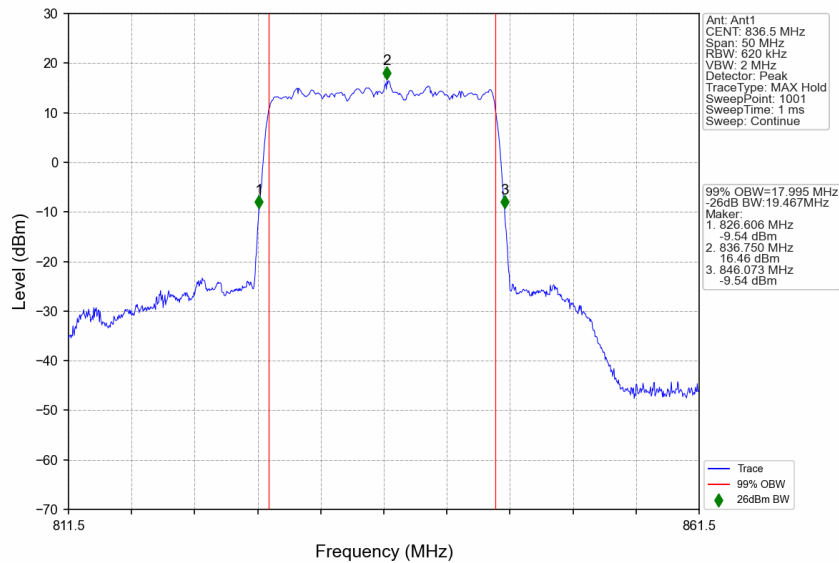
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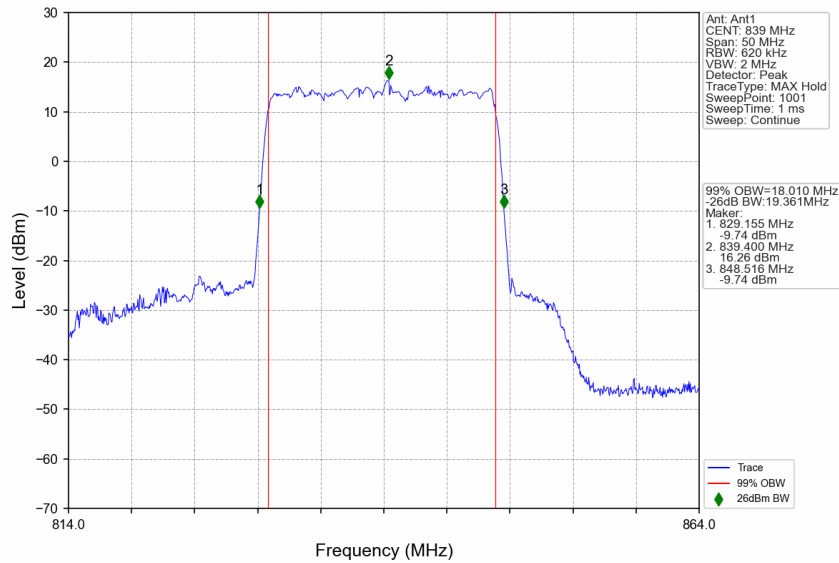
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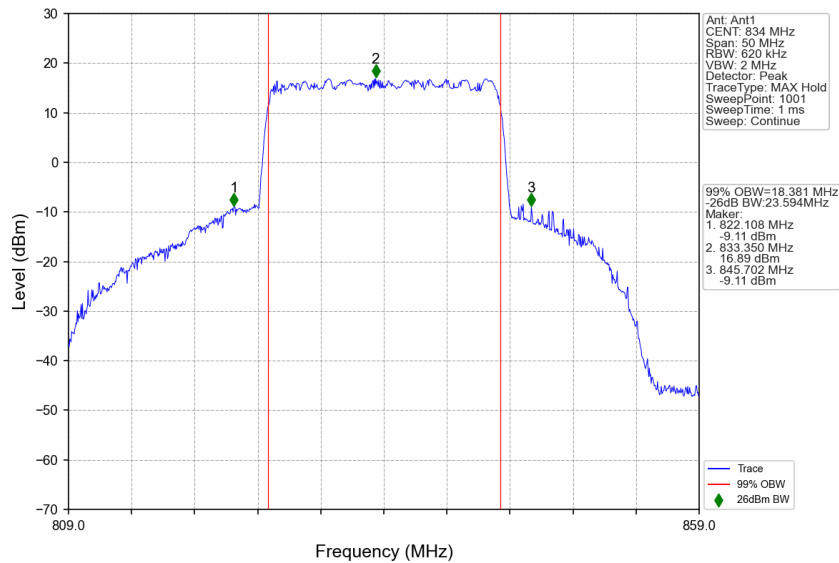
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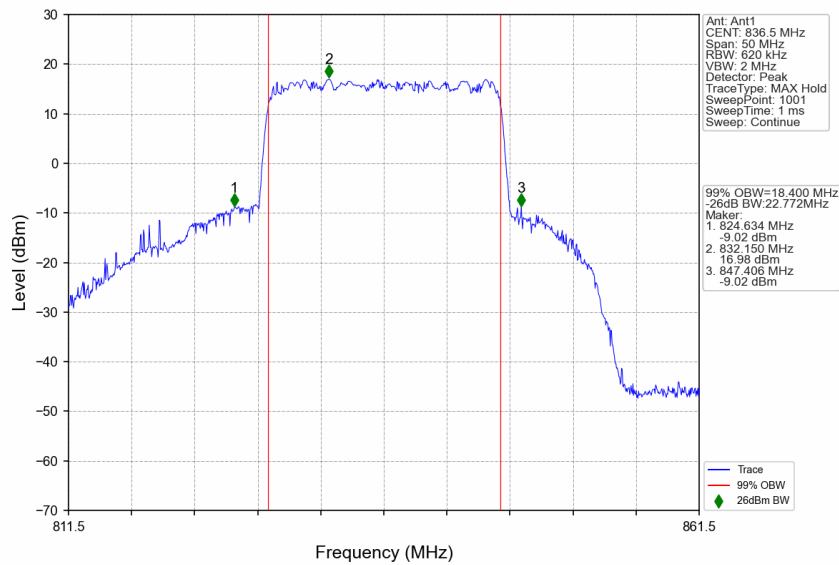


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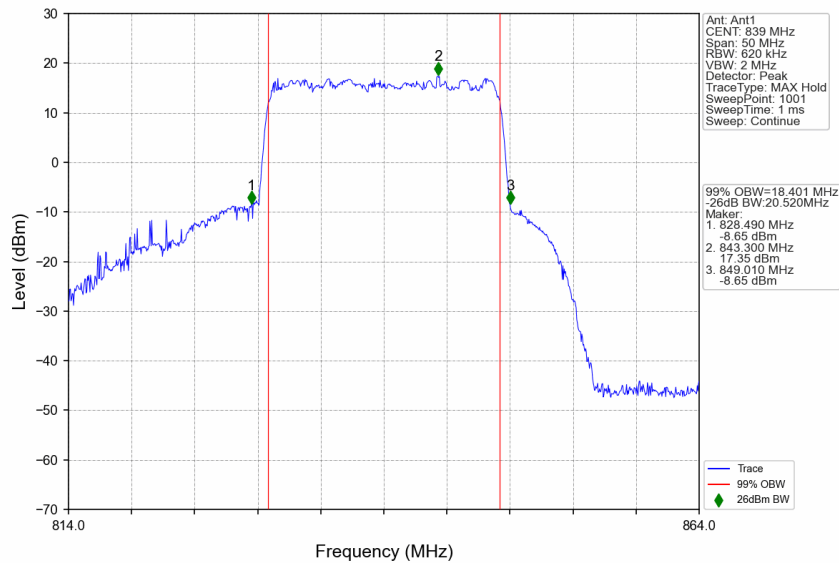
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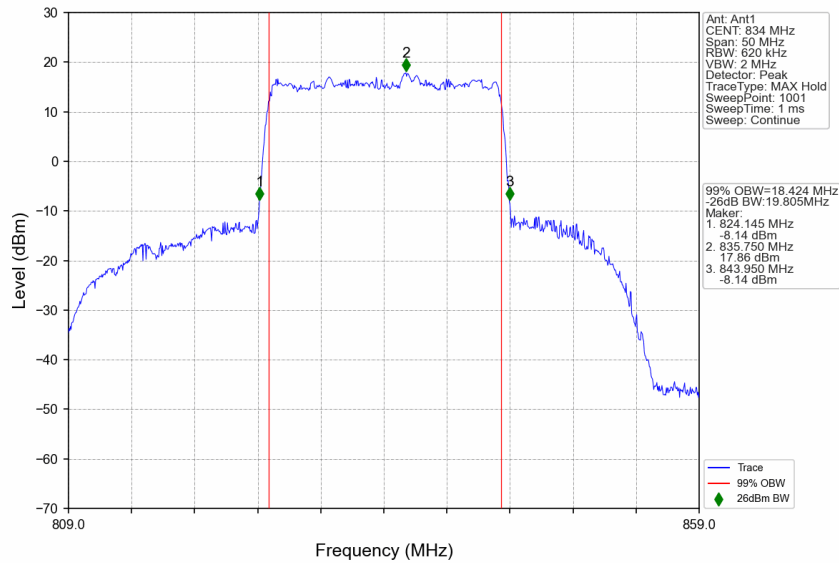


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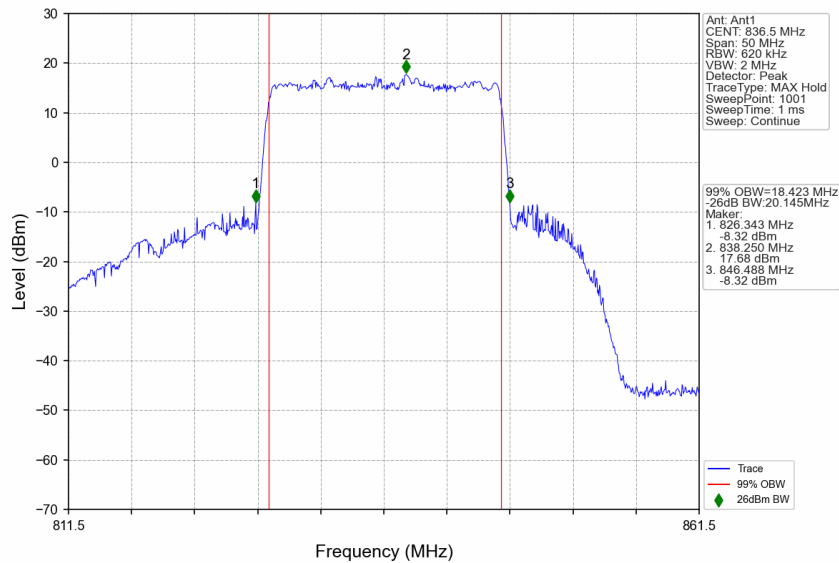
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n5_30kHz_SISO_NTNV_20MHz_CP-OFDM 16 QAM_834MHz_Outer_Full



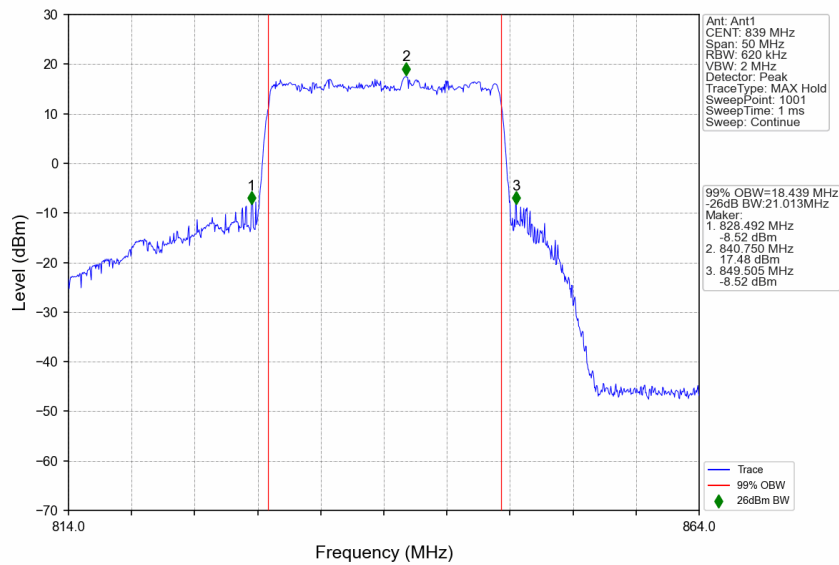
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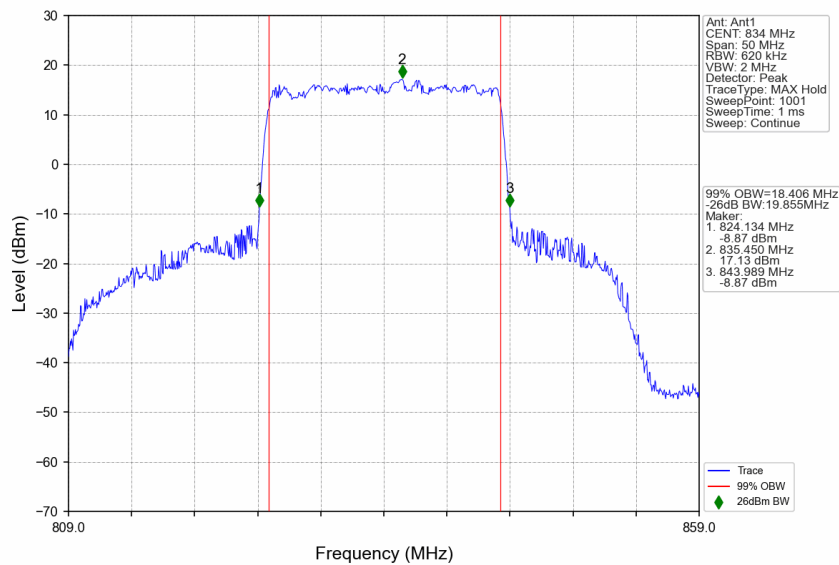
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n5_30kHz_SISO_NTNV_20MHz_CP-OFDM 64 QAM_834MHz_Outer_Full

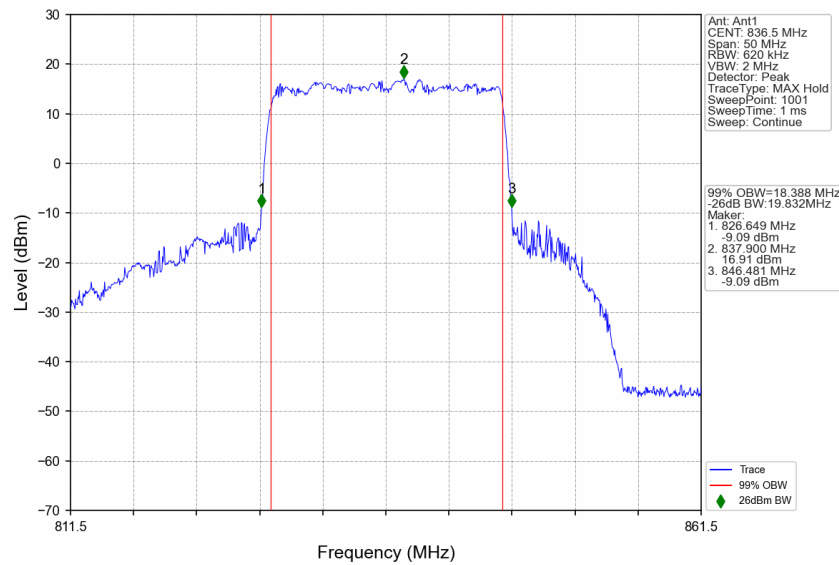


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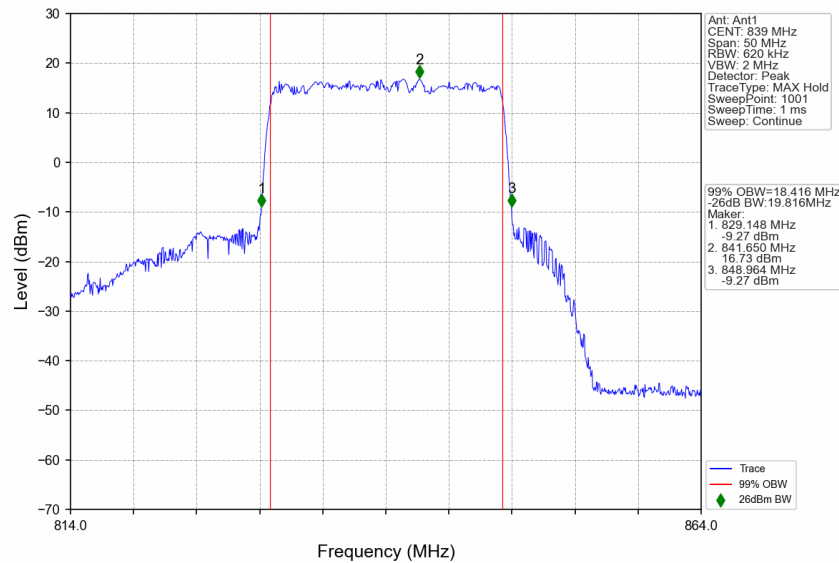
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n5_30kHz_SISO_NTNV_20MHz_CP-OFDM 64 QAM_839MHz_Outer_Full



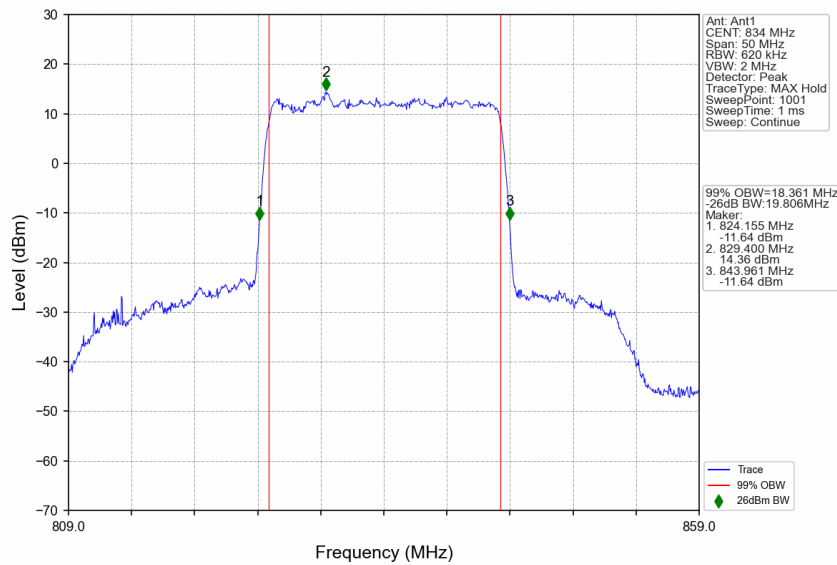
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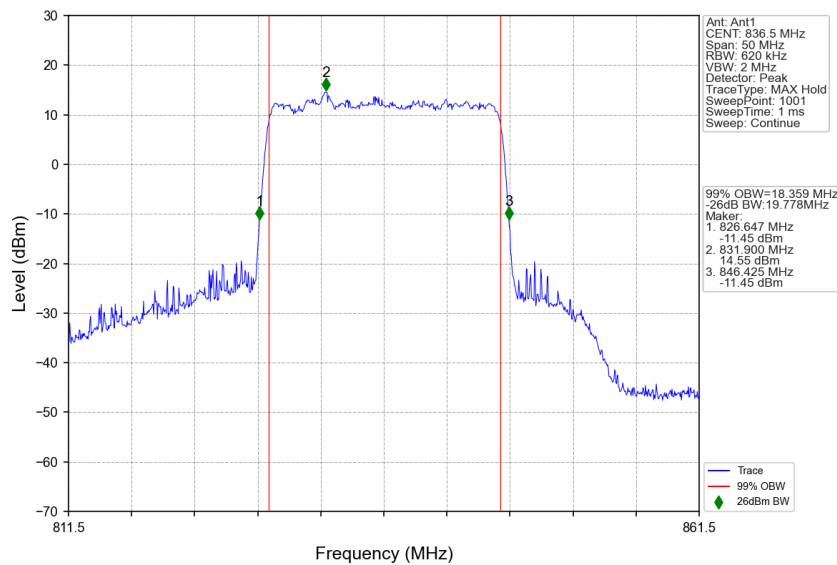
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