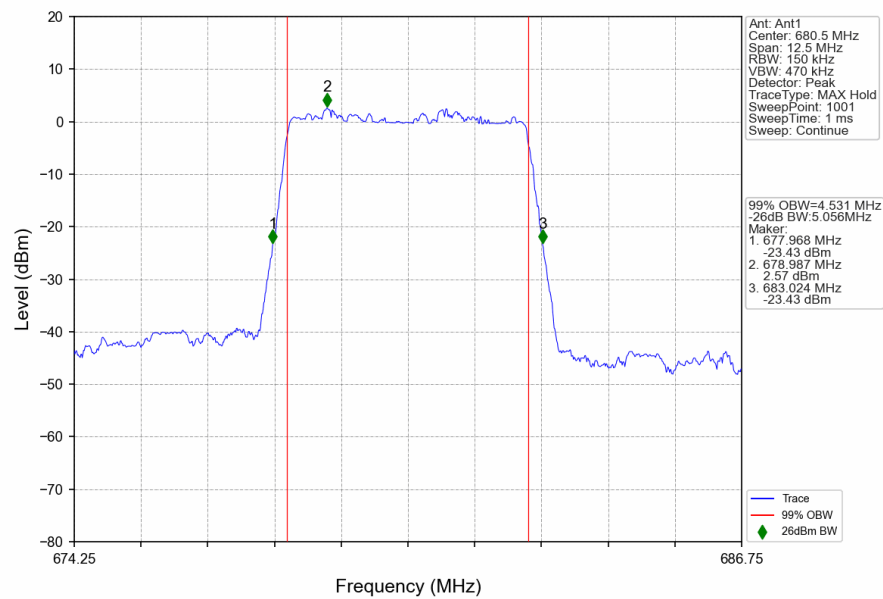
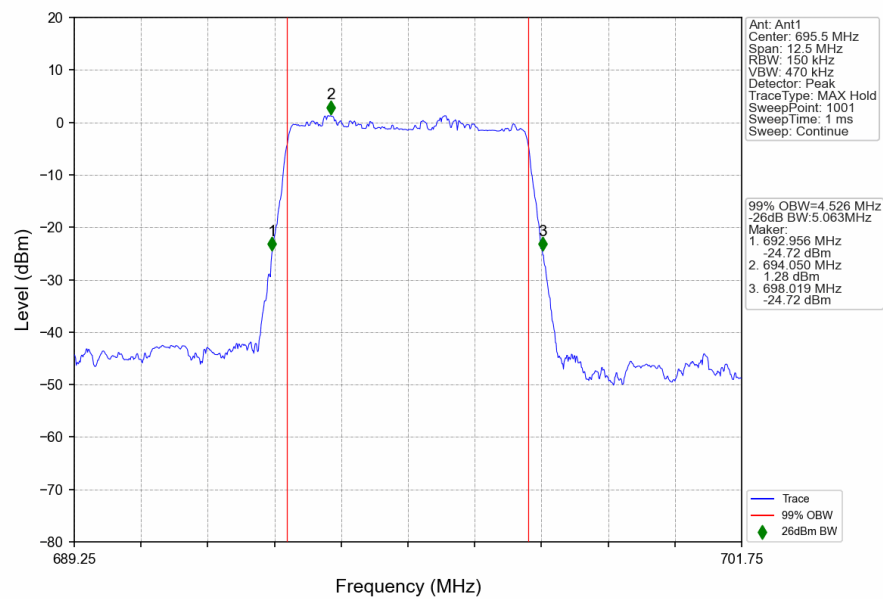


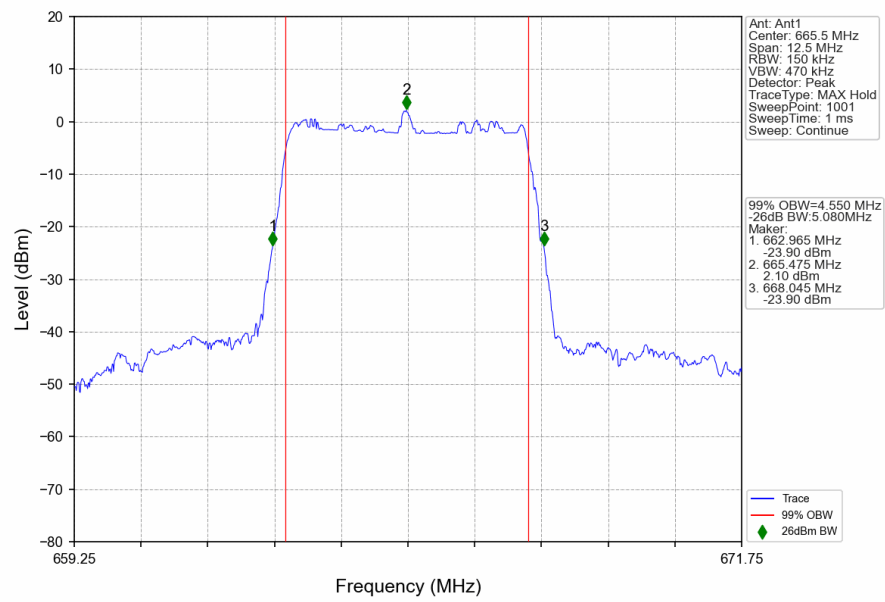
n71_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_QPSK_680.5MHz_Outer_Full



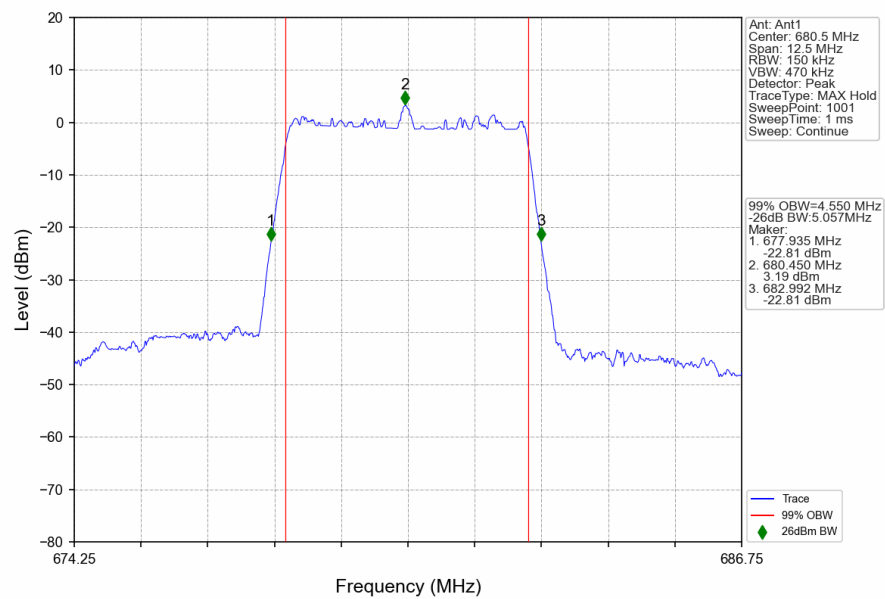
n71_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_QPSK_695.5MHz_Outer_Full



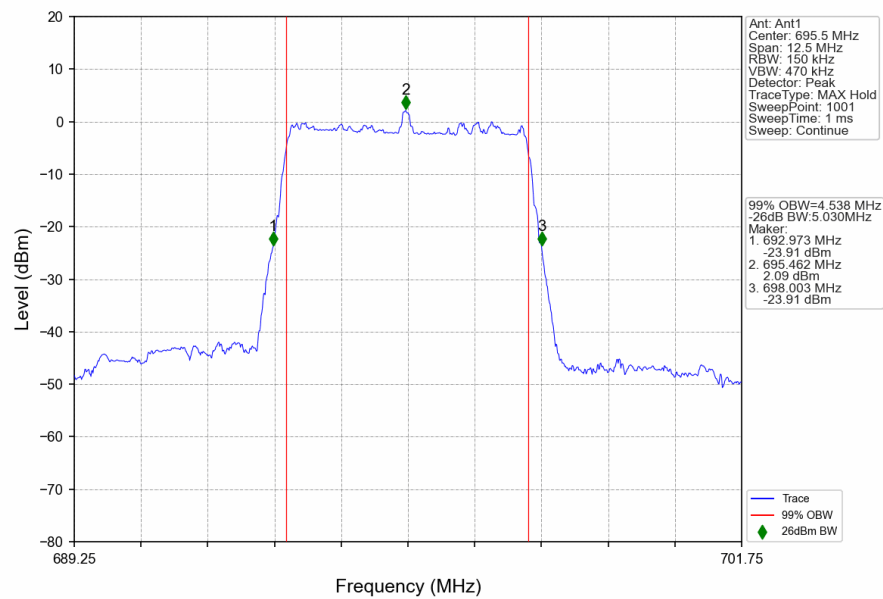
n71_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_16_QAM_665.5MHz_Outer_Full



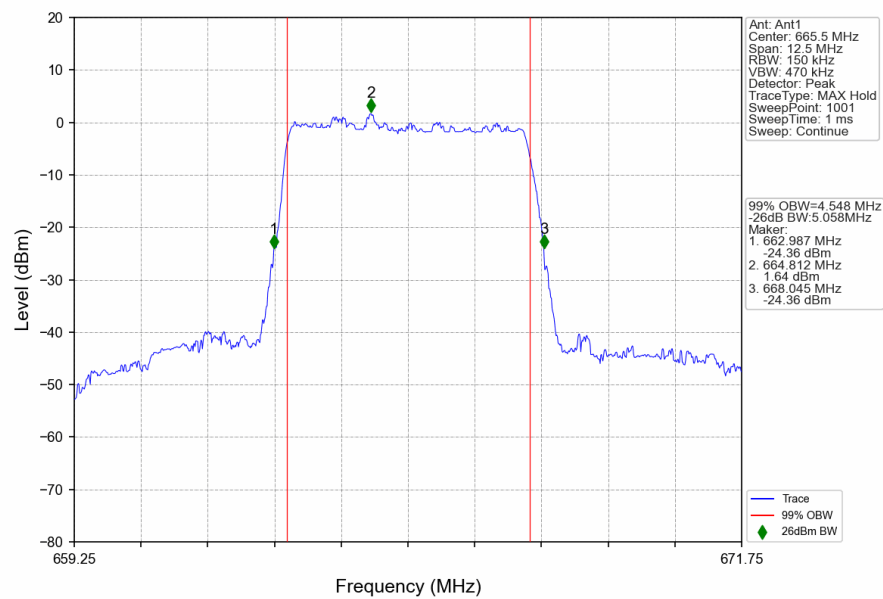
n71_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_16_QAM_680.5MHz_Outer_Full



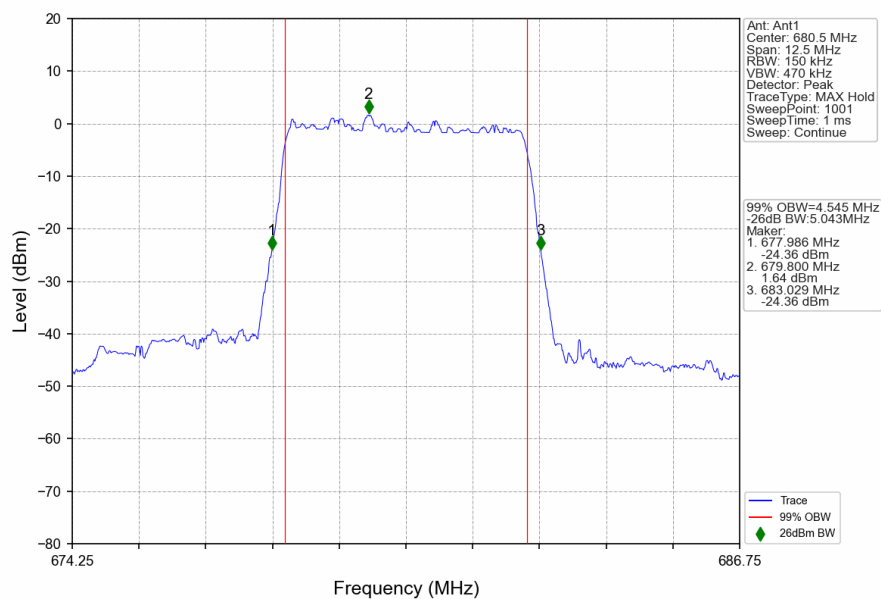
n71_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_16QAM_695.5MHz_Outer_Full



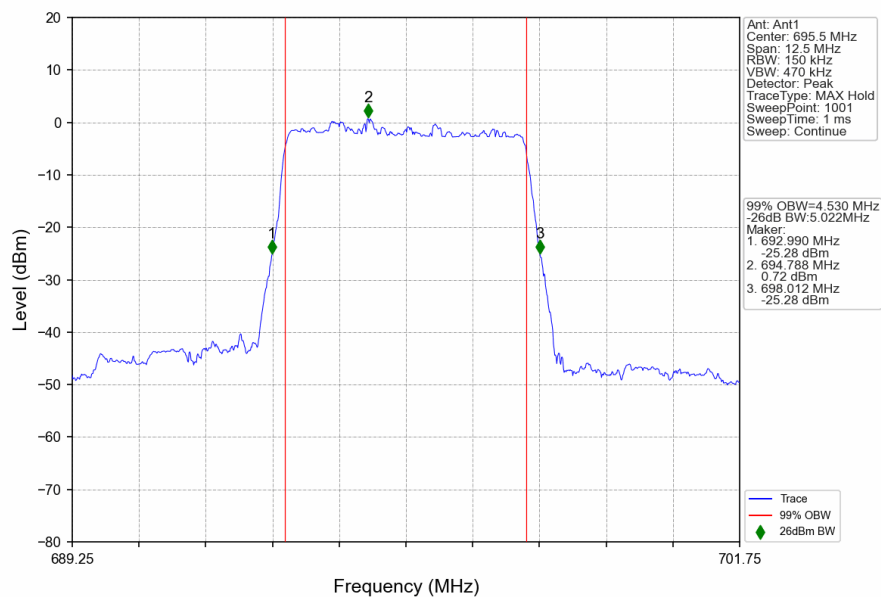
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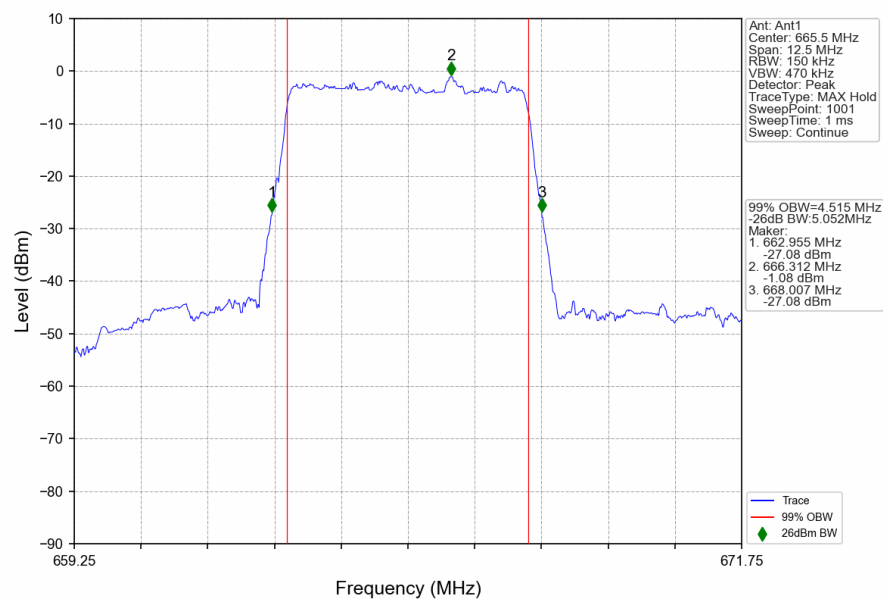
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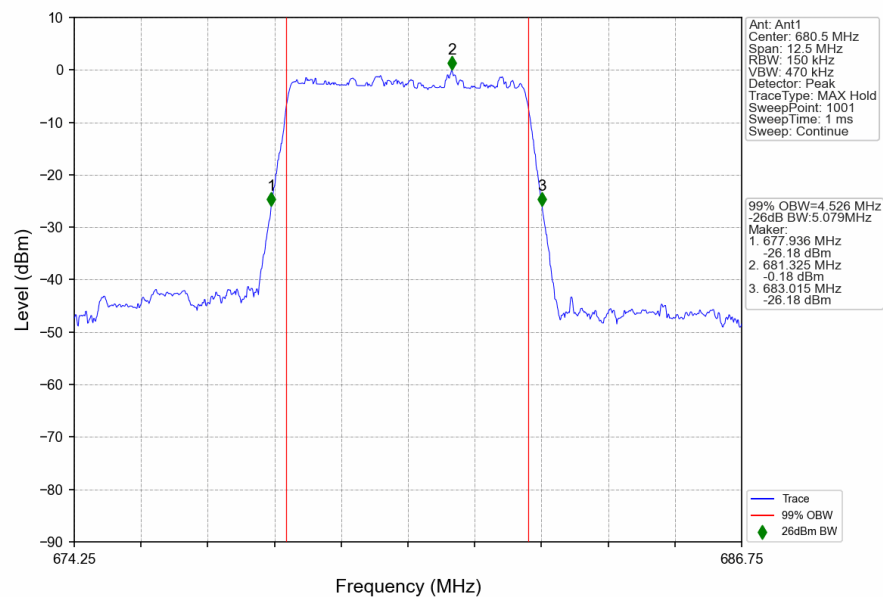
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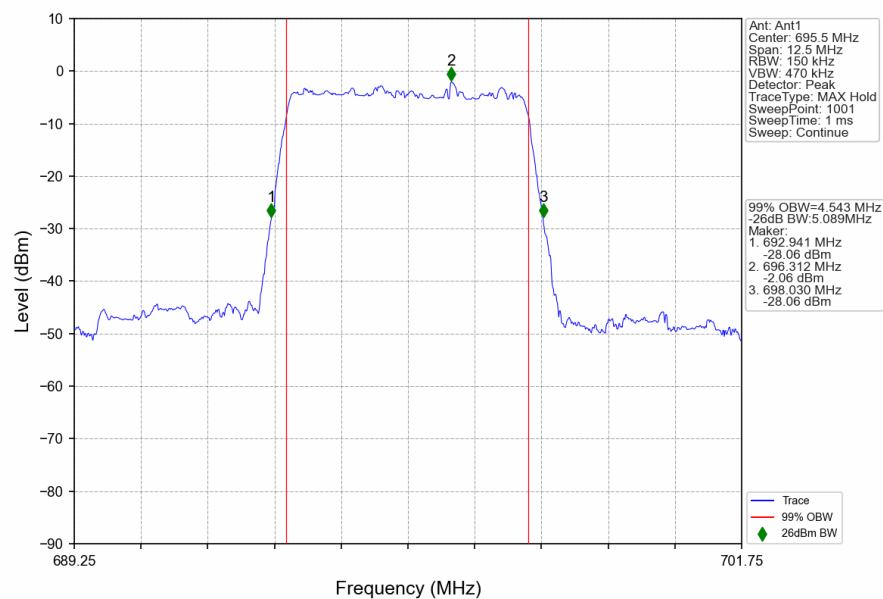
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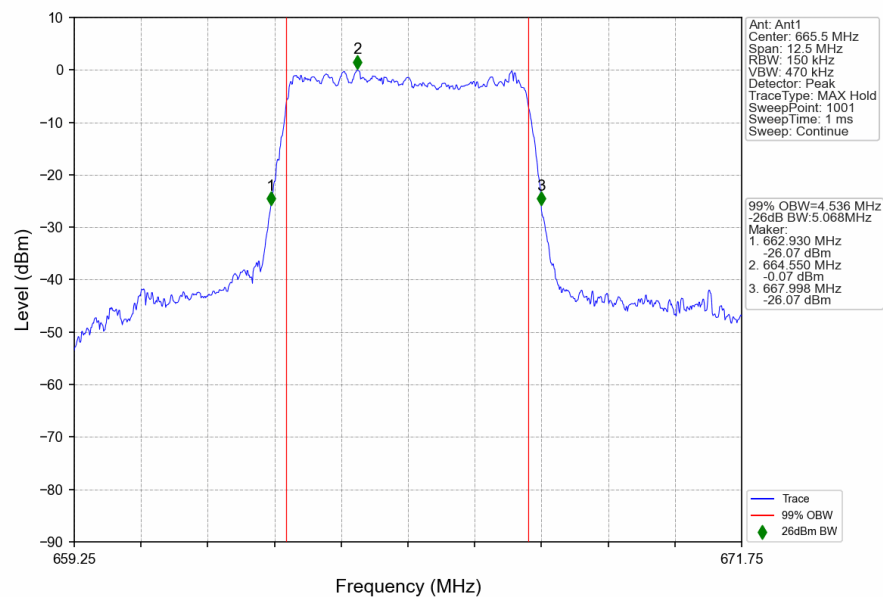
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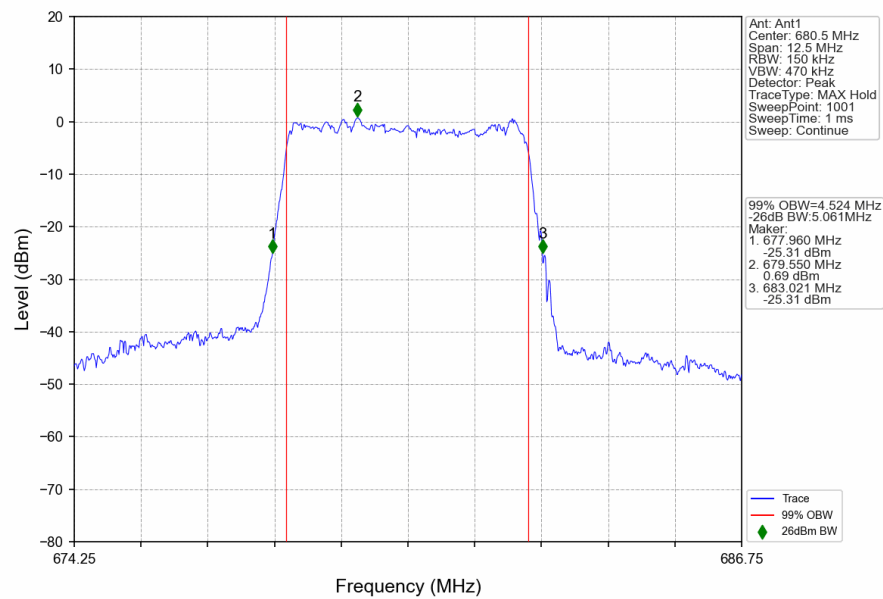
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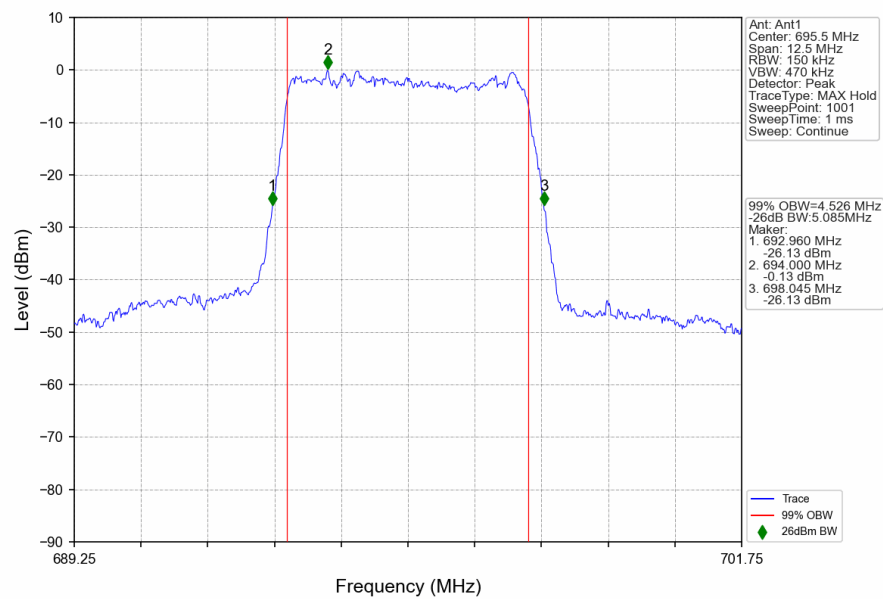
n71_15kHz_SISO_NTNV_5MHz_CP-OFDM_QPSK_665.5MHz_Outer_Full



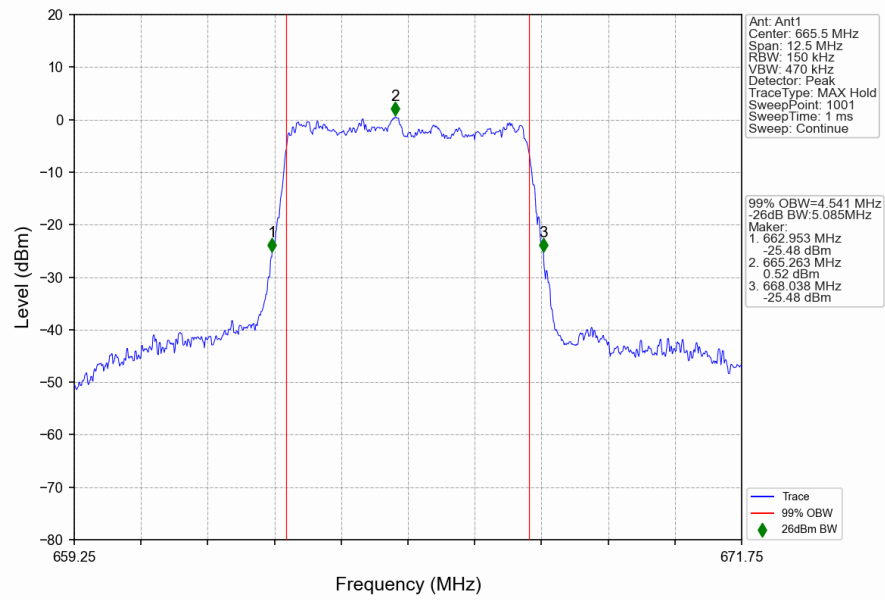
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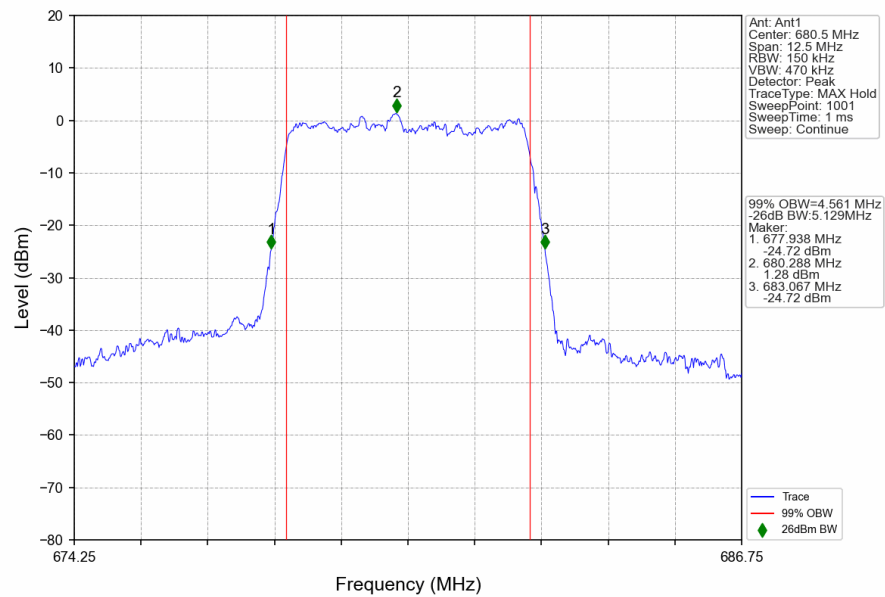
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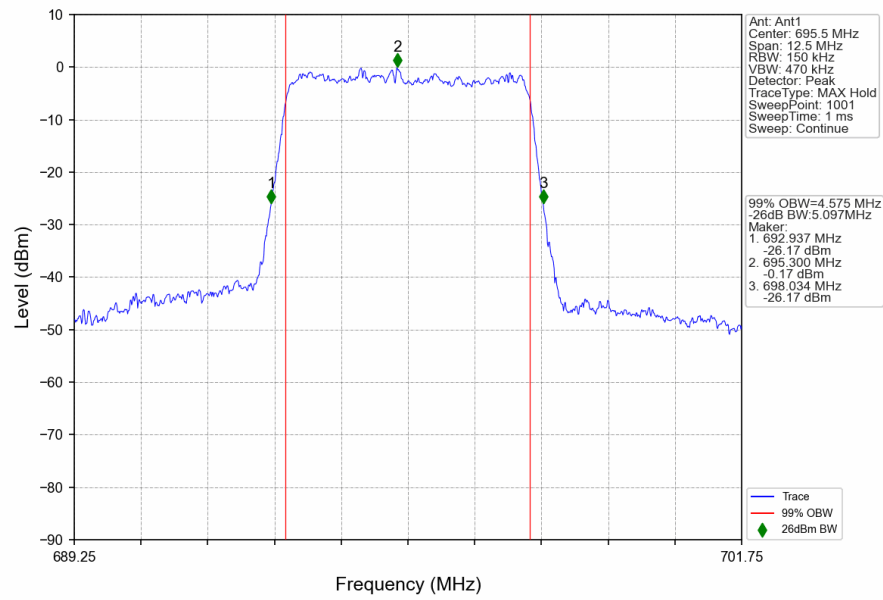
n71_15kHz_SISO_NTNV_5MHz_CP-OFDM_16_QAM_665.5MHz_Outer_Full



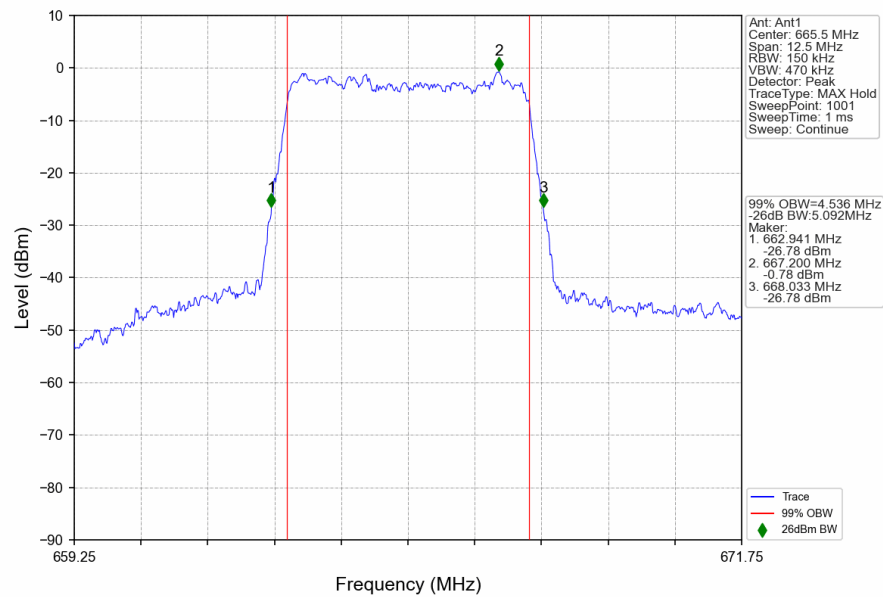
n71_15kHz_SISO_NTNV_5MHz_CP-OFDM_16_QAM_680.5MHz_Outer_Full



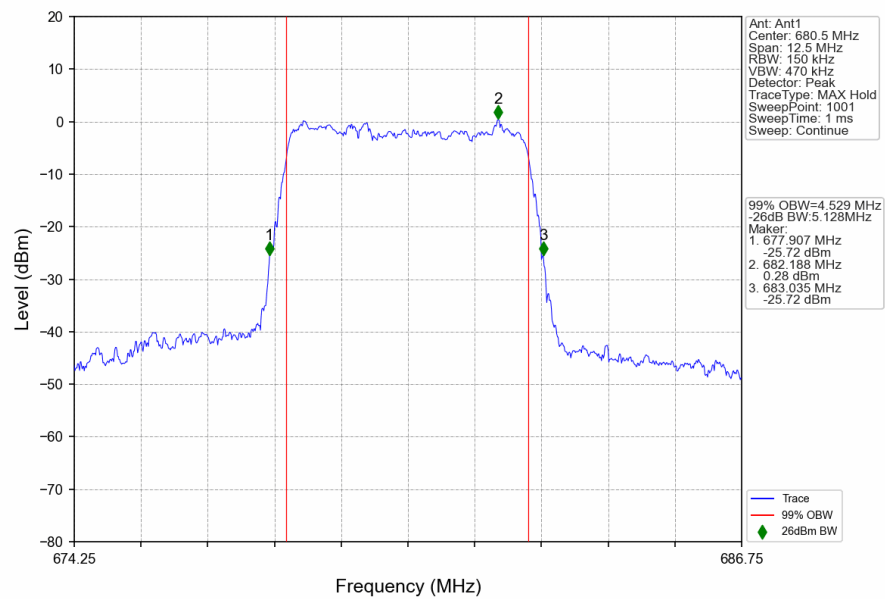
n71_15kHz_SISO_NTNV_5MHz_CP-OFDM 16 QAM 695.5MHz_Outer_Full



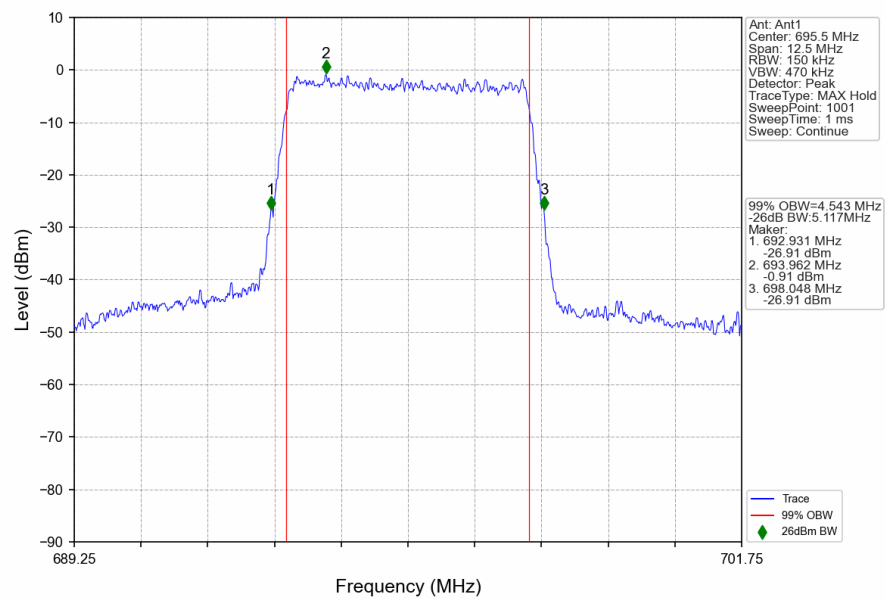
n71_15kHz_SISO_NTNV_5MHz_CP-OFDM 64 QAM 665.5MHz_Outer_Full



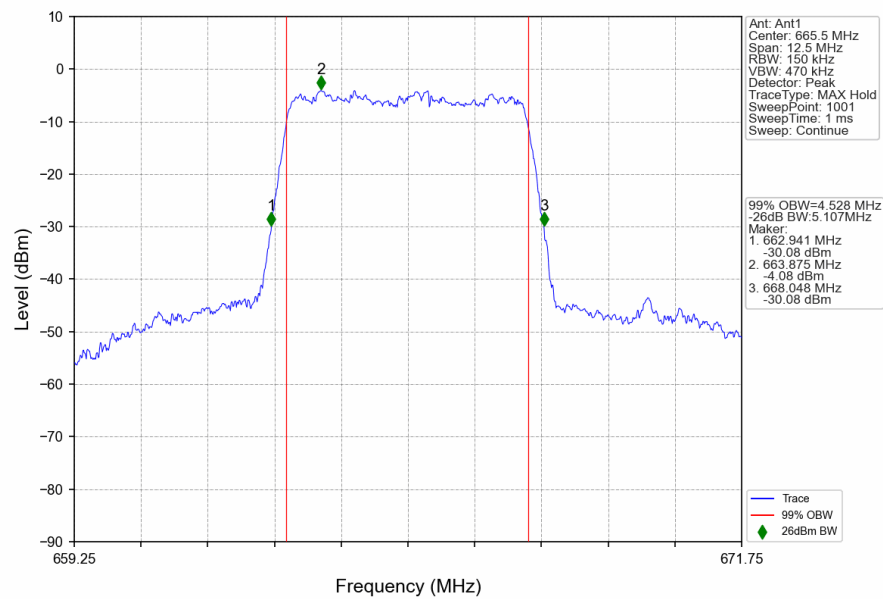
n71_15kHz_SISO_NTNV_5MHz_CP-OFDM 64 QAM 680.5MHz_Outer_Full



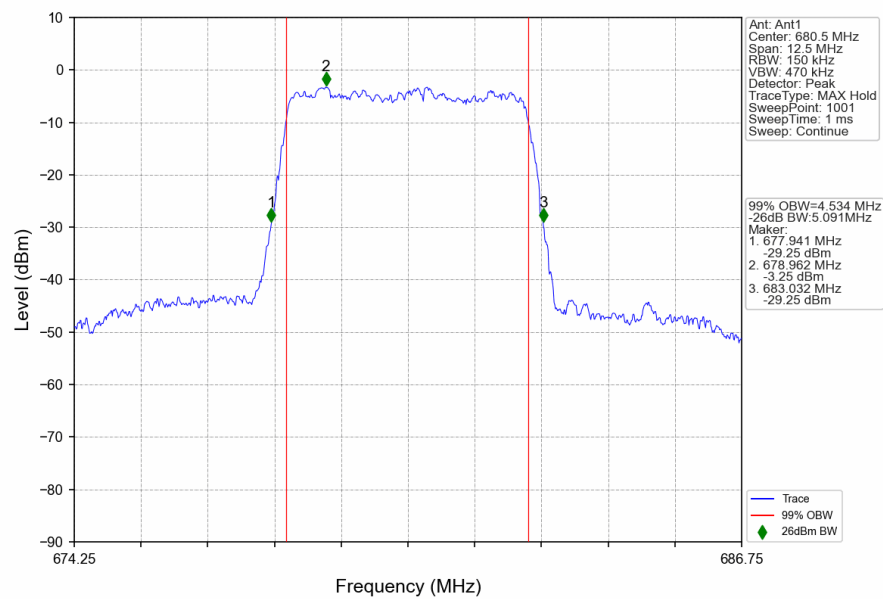
n71_15kHz_SISO_NTNV_5MHz_CP-OFDM 64 QAM 695.5MHz_Outer_Full



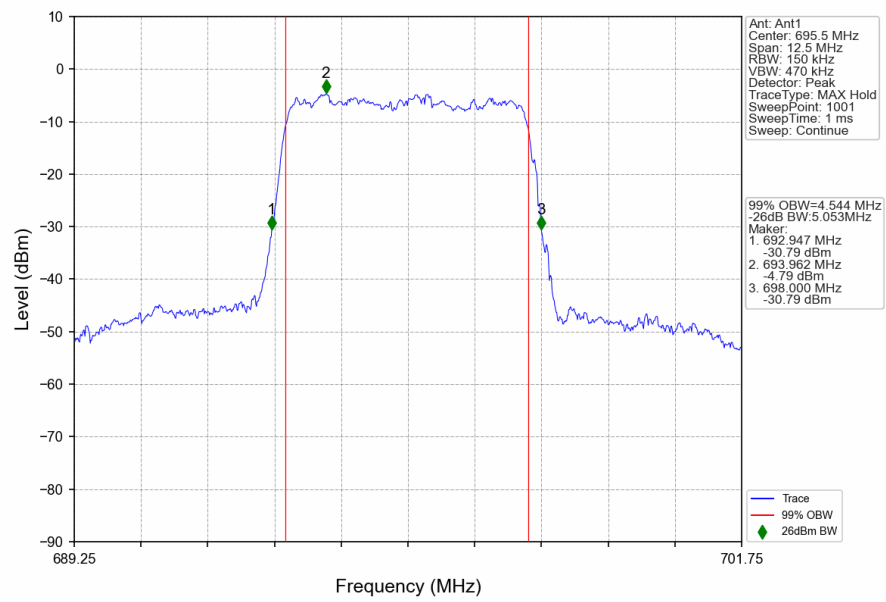
n71_15kHz_SISO_NTNV_5MHz_CP-OFDM_256_QAM_665.5MHz_Outer_Full



n71_15kHz_SISO_NTNV_5MHz_CP-OFDM_256_QAM_680.5MHz_Outer_Full



n71_15kHz_SISO_NTNV_5MHz_CP-OFDM_256_QAM_695.5MHz_Outer_Full

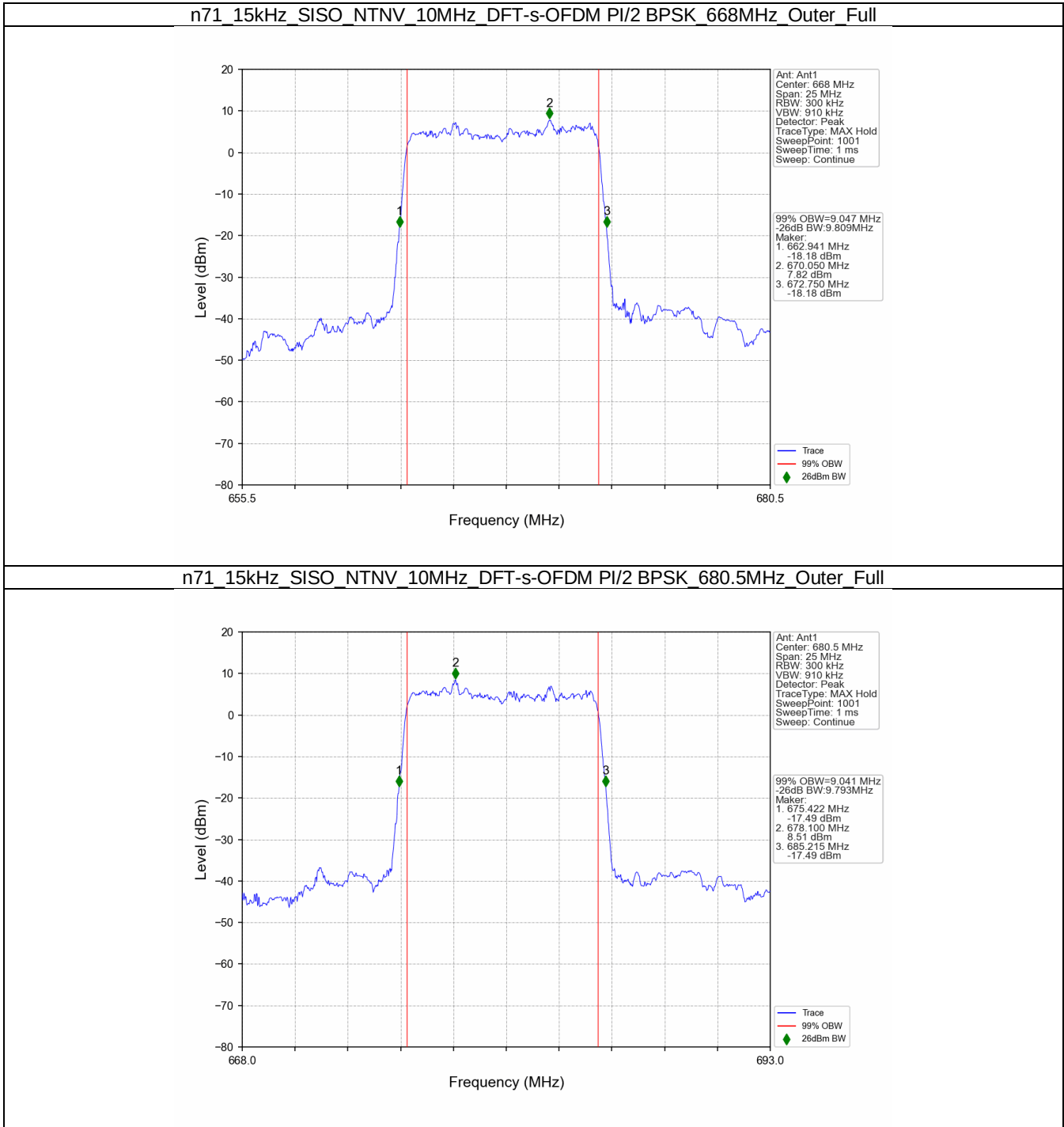


5.2 15k_SISO_10MHz_NTNV

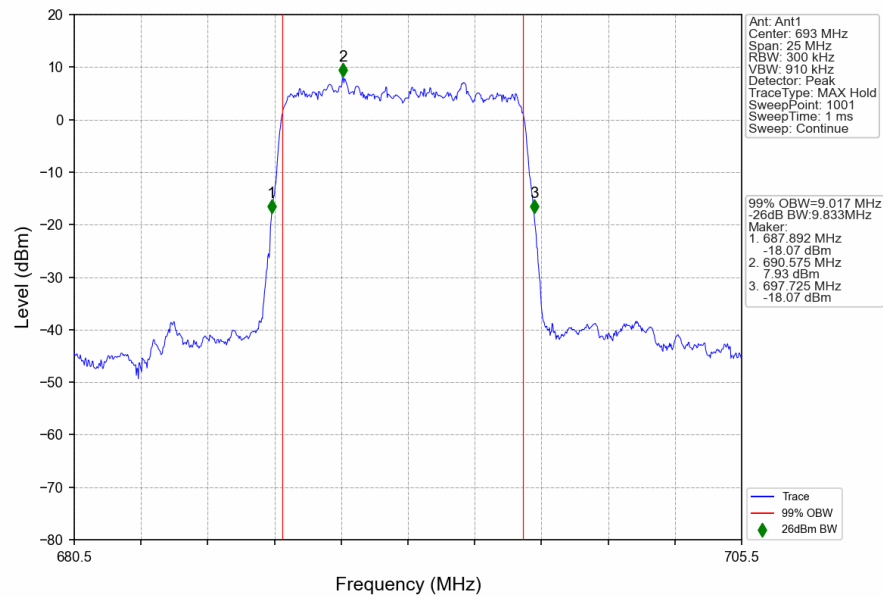
5.2.1 Test Result

5G NR n71 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	668	Outer_Full	9.05	9.81	/	Pass
	680.5	Outer_Full	9.04	9.79	/	Pass
	693	Outer_Full	9.02	9.83	/	Pass
DFT-s-OFDM QPSK	668	Outer_Full	9.08	9.94	/	Pass
	680.5	Outer_Full	9.08	9.90	/	Pass
	693	Outer_Full	9.05	9.83	/	Pass
DFT-s-OFDM 16 QAM	668	Outer_Full	9.07	9.87	/	Pass
	680.5	Outer_Full	9.06	9.83	/	Pass
	693	Outer_Full	9.03	9.81	/	Pass
DFT-s-OFDM 64 QAM	668	Outer_Full	9.07	9.84	/	Pass
	680.5	Outer_Full	9.03	9.81	/	Pass
	693	Outer_Full	9.01	9.81	/	Pass
DFT-s-OFDM 256 QAM	668	Outer_Full	9.05	9.90	/	Pass
	680.5	Outer_Full	9.03	9.91	/	Pass
	693	Outer_Full	9.03	9.88	/	Pass
CP-OFDM QPSK	668	Outer_Full	9.37	10.26	/	Pass
	680.5	Outer_Full	9.37	10.26	/	Pass
	693	Outer_Full	9.33	10.23	/	Pass
CP-OFDM 16 QAM	668	Outer_Full	9.40	10.24	/	Pass
	680.5	Outer_Full	9.38	10.29	/	Pass
	693	Outer_Full	9.34	10.26	/	Pass
CP-OFDM 64 QAM	668	Outer_Full	9.37	10.20	/	Pass
	680.5	Outer_Full	9.34	10.14	/	Pass
	693	Outer_Full	9.32	10.17	/	Pass
CP-OFDM 256 QAM	668	Outer_Full	9.41	10.21	/	Pass
	680.5	Outer_Full	9.40	10.25	/	Pass
	693	Outer_Full	9.36	10.19	/	Pass

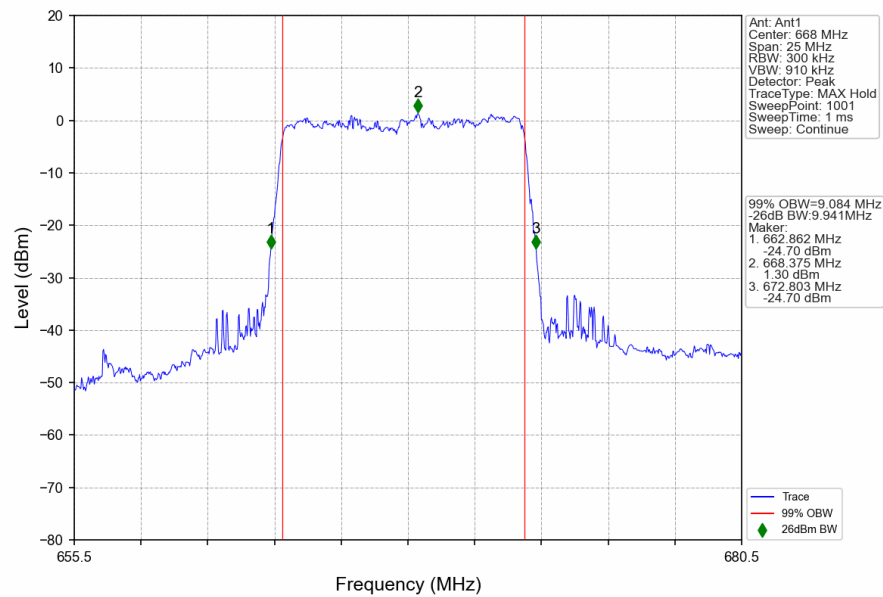
5.2.2 Test Graph



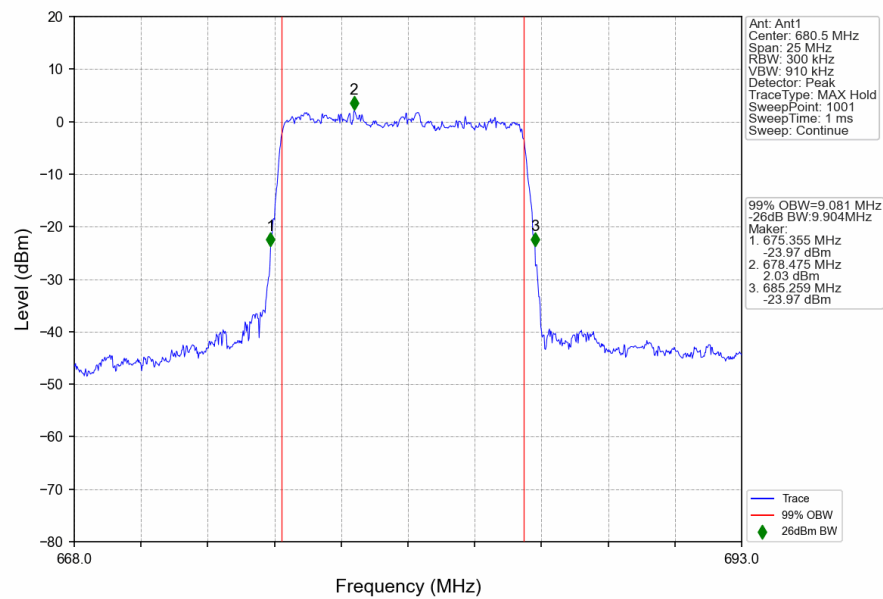
n71_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_PI/2_BPSK_693MHz_Outer_Full



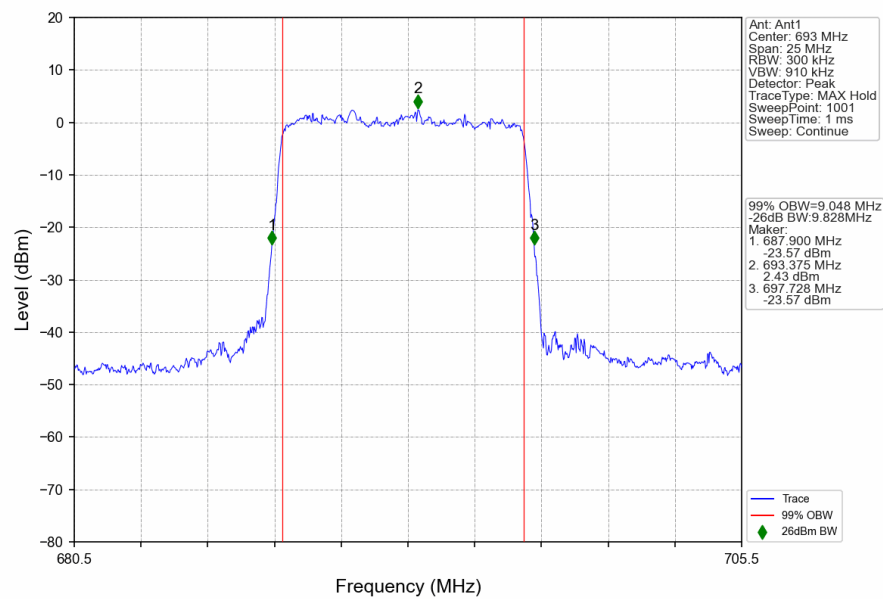
n71_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_QPSK_668MHz_Outer_Full



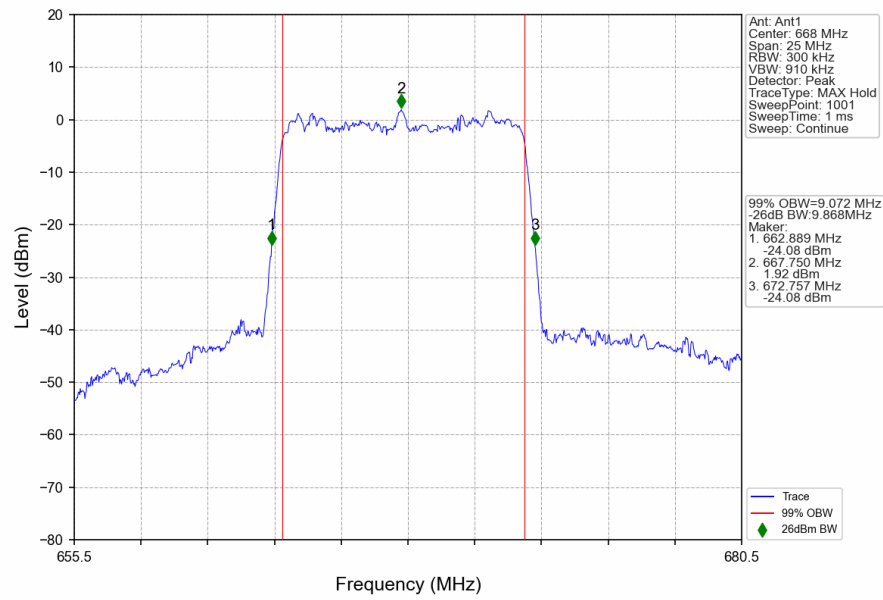
n71_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_QPSK_680.5MHz_Outer_Full



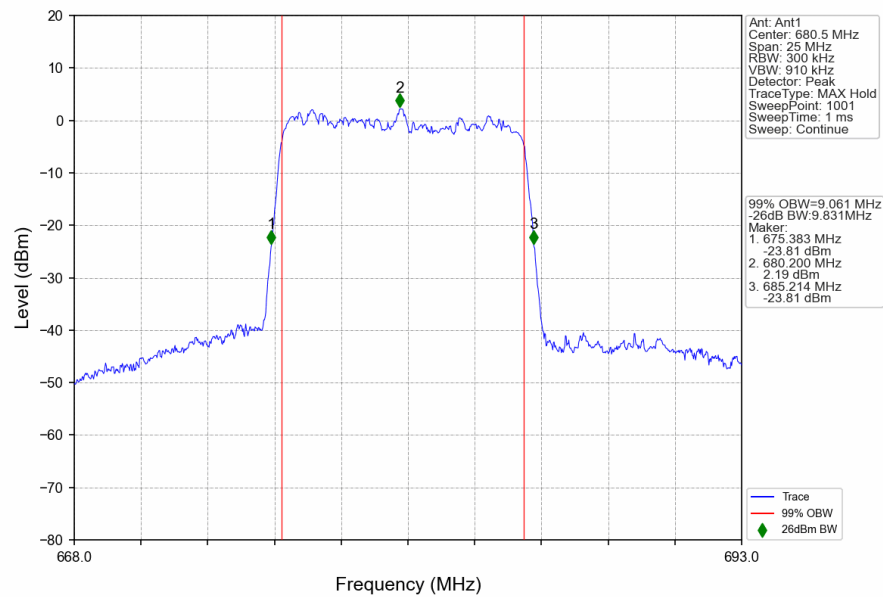
n71_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_QPSK_693MHz_Outer_Full



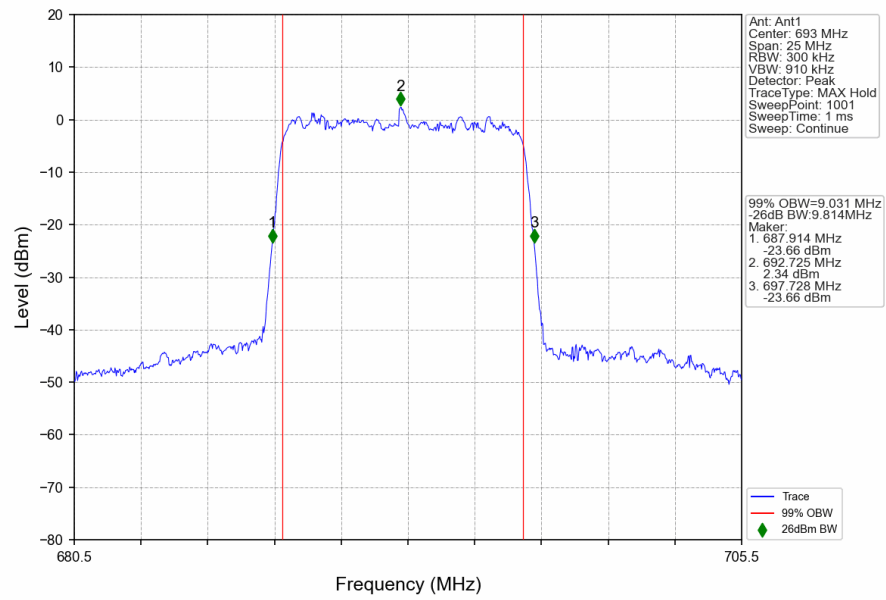
n71_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_16_QAM_668MHz_Outer_Full



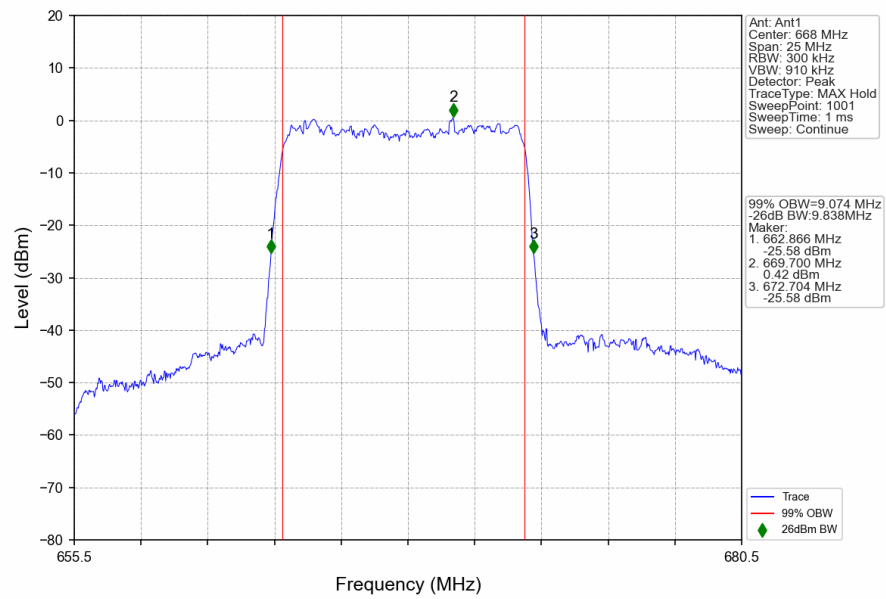
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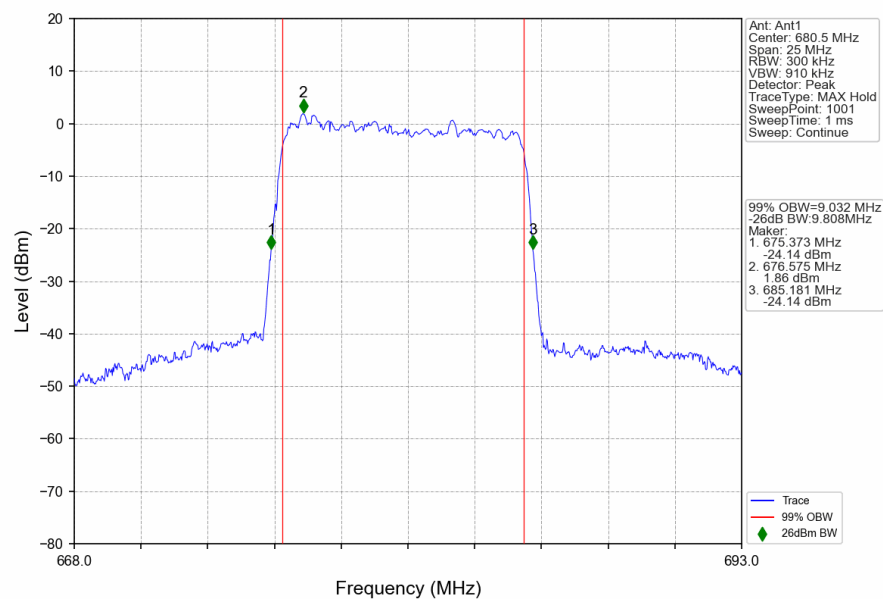
n71_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 16 QAM_693MHz_Outer_Full



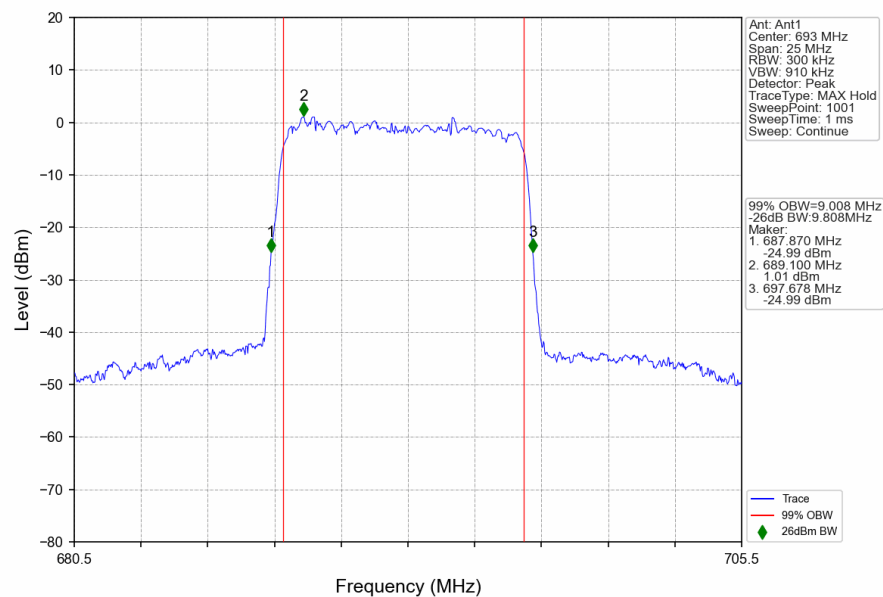
n71_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 64 QAM_668MHz_Outer_Full



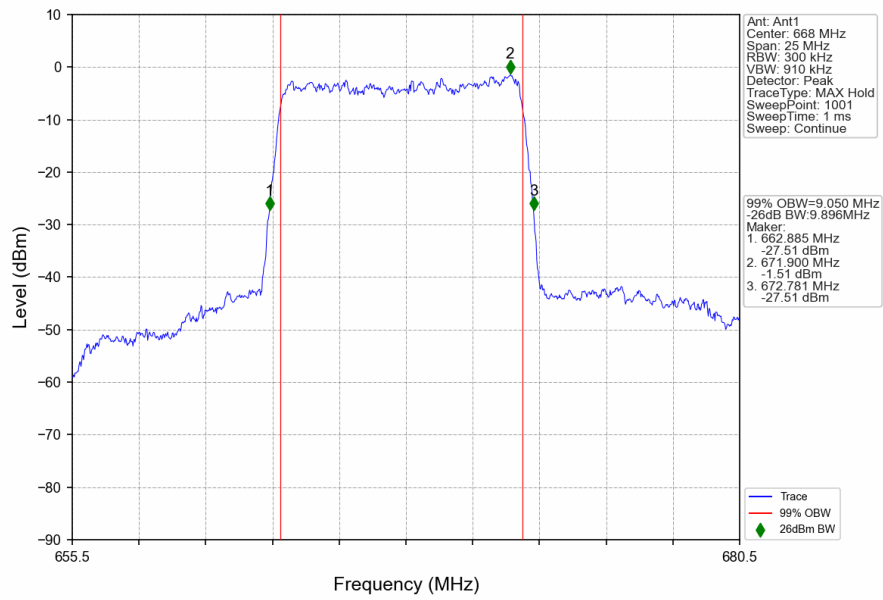
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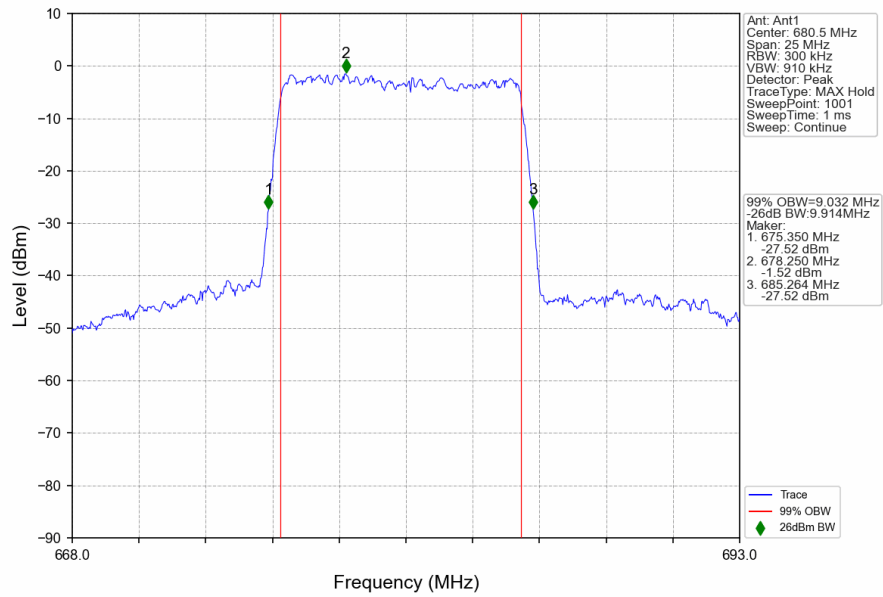
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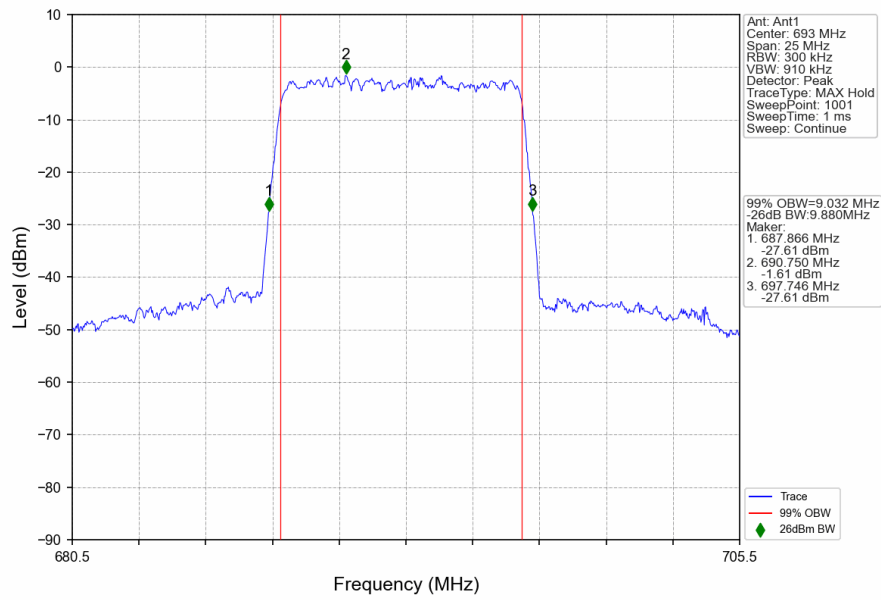
n71_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 256 QAM_668MHz_Outer_Full



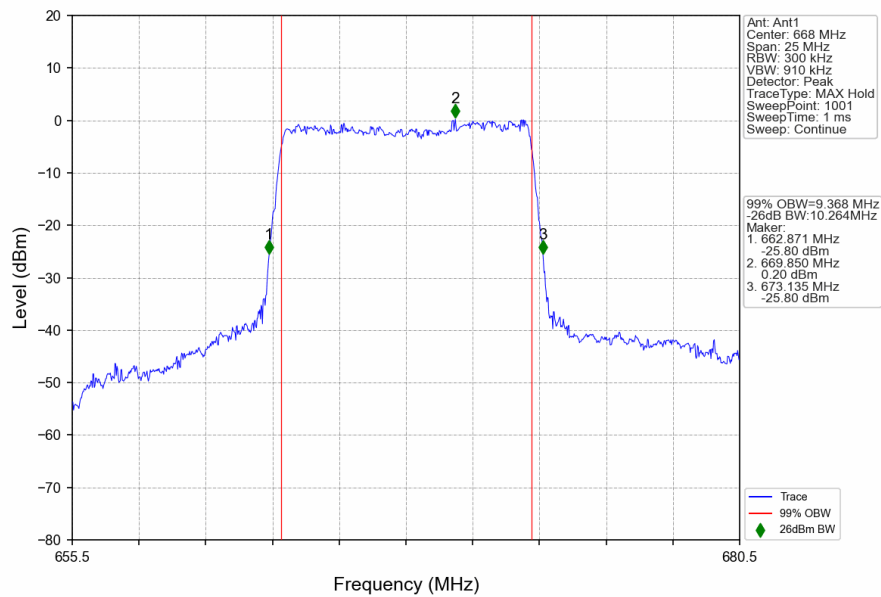
n71_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 256 QAM_680.5MHz_Outer_Full



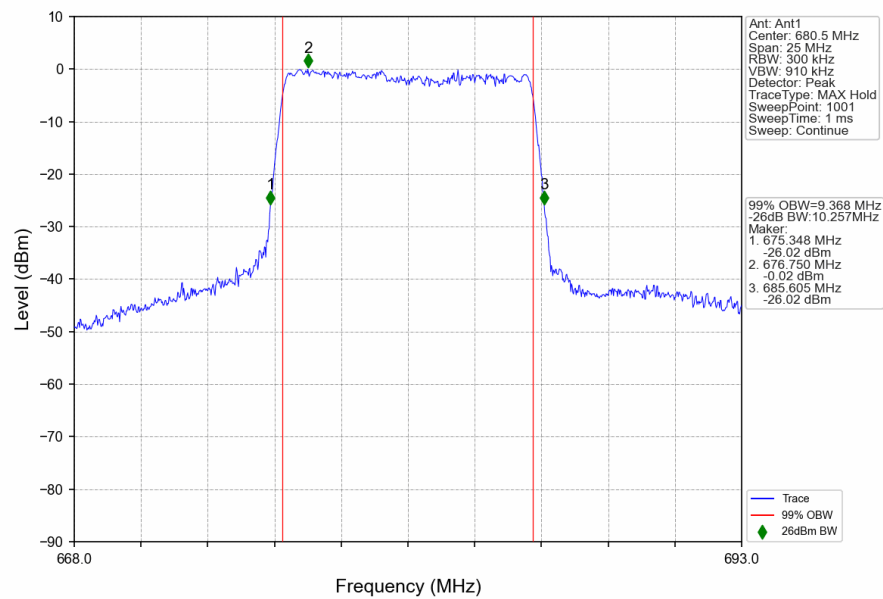
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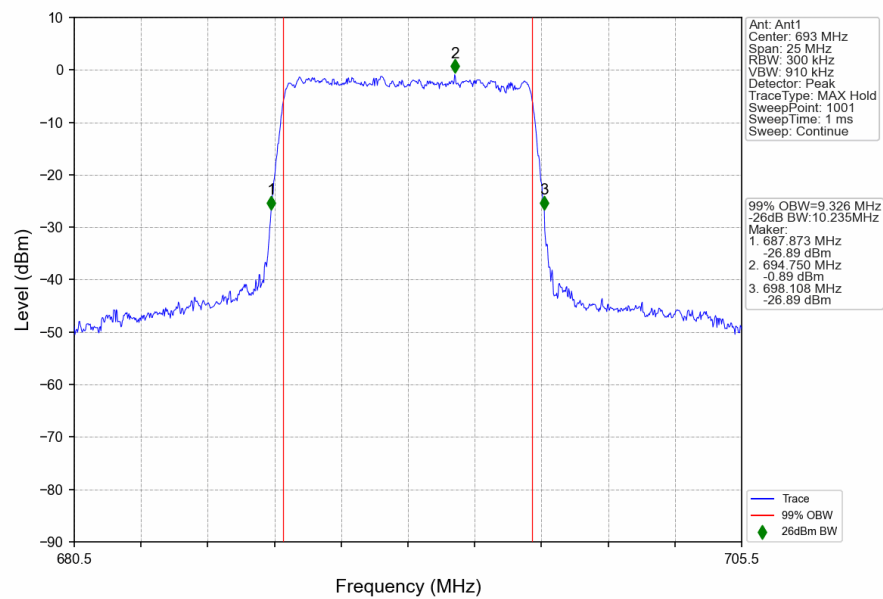
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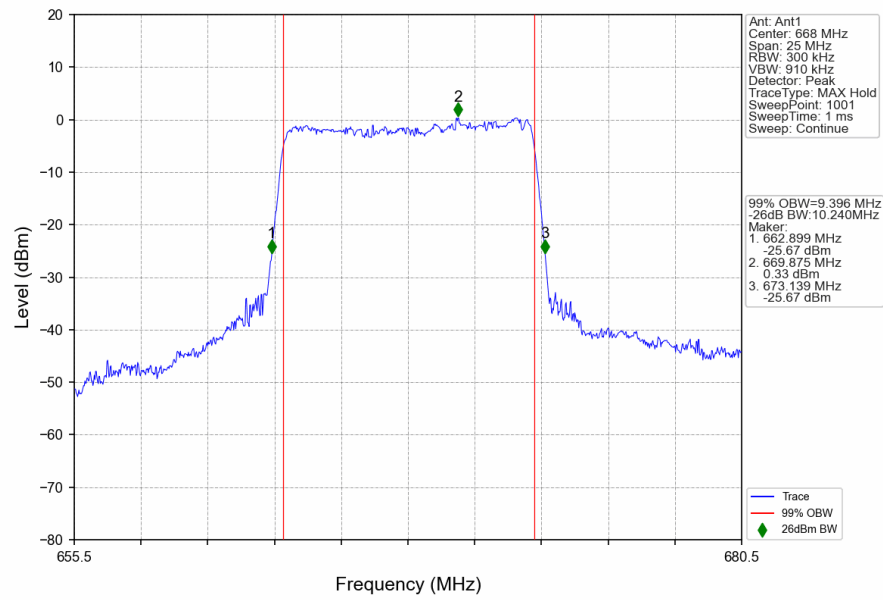
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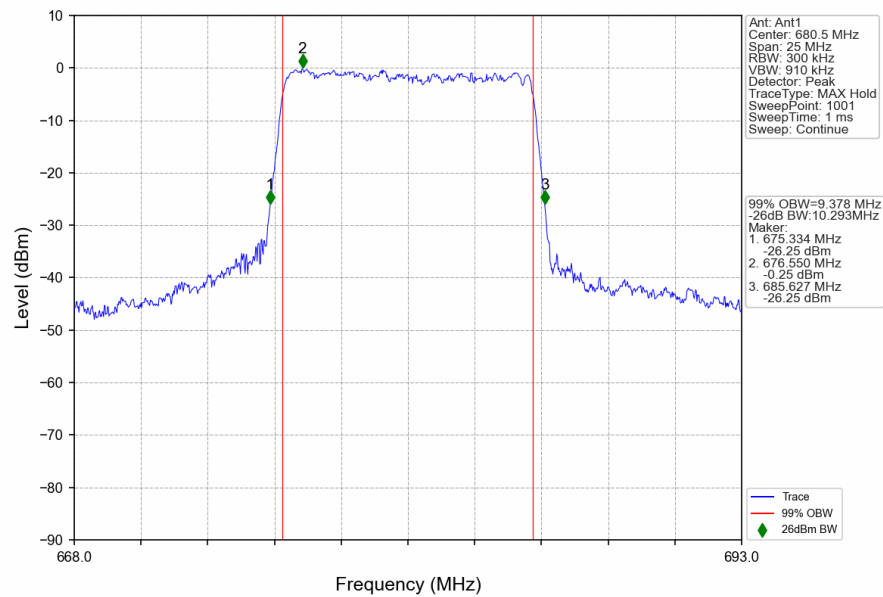
n71_15kHz_SISO_NTNV_10MHz_CP-OFDM_QPSK_693MHz_Outer_Full



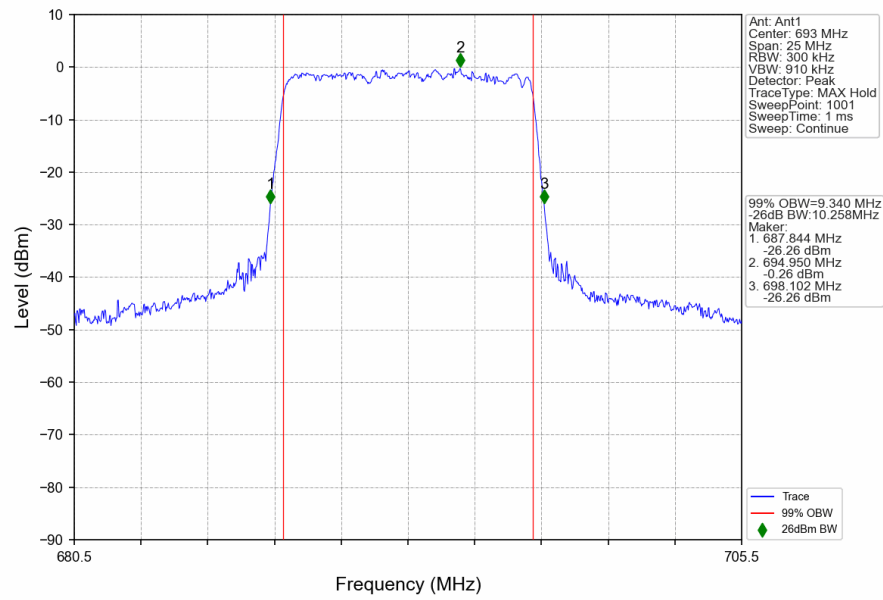
n71_15kHz_SISO_NTNV_10MHz_CP-OFDM_16 QAM_668MHz_Outer_Full



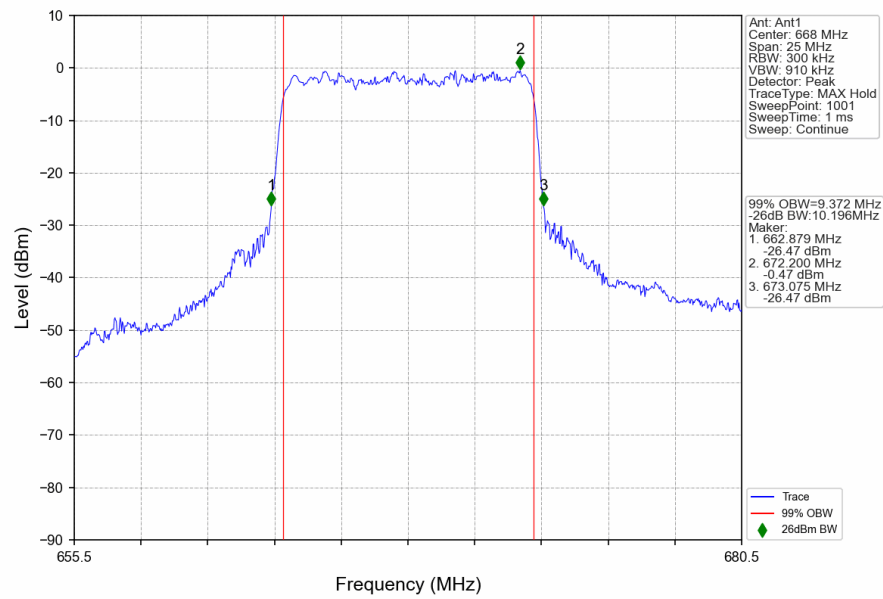
n71_15kHz_SISO_NTNV_10MHz_CP-OFDM_16 QAM_680.5MHz_Outer_Full



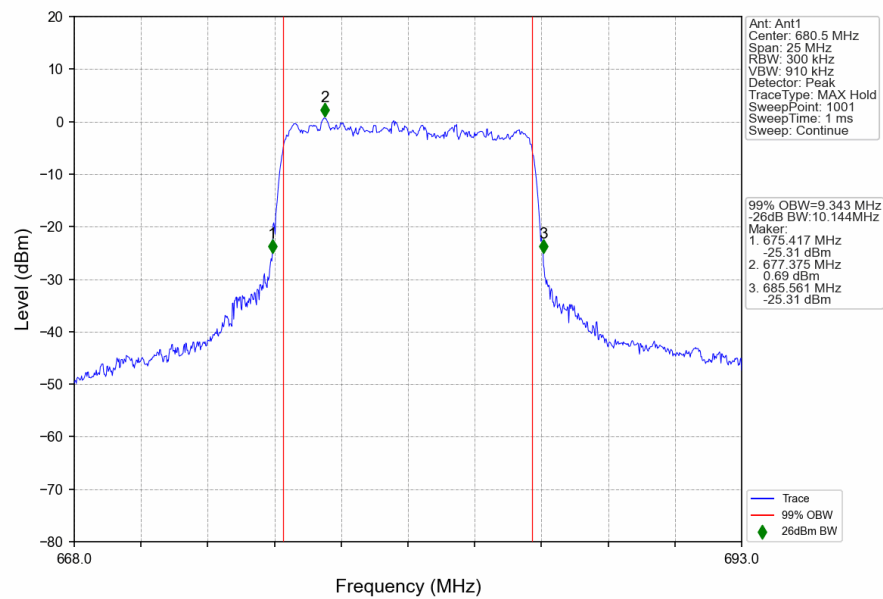
n71_15kHz_SISO_NTNV_10MHz_CP-OFDM_16 QAM_693MHz_Outer_Full



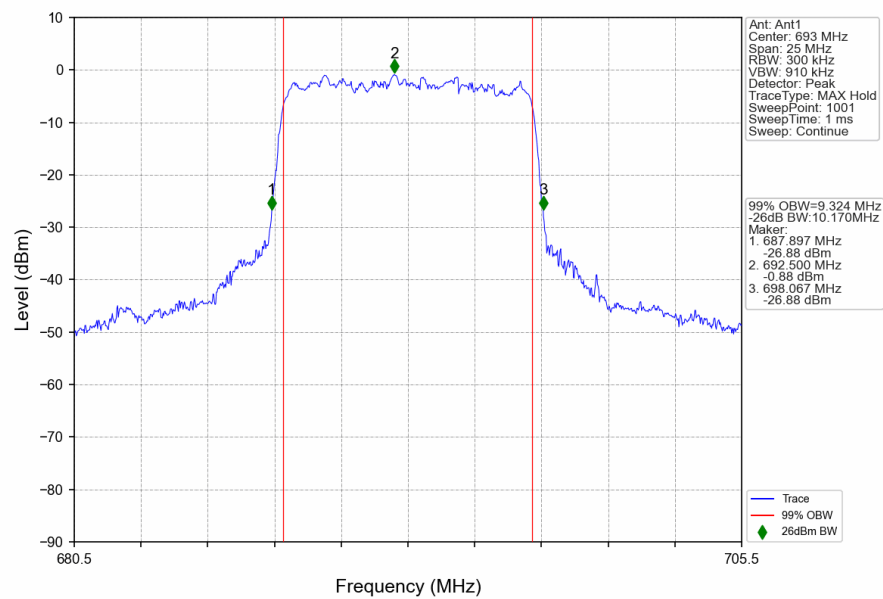
n71_15kHz_SISO_NTNV_10MHz_CP-OFDM_64 QAM_668MHz_Outer_Full



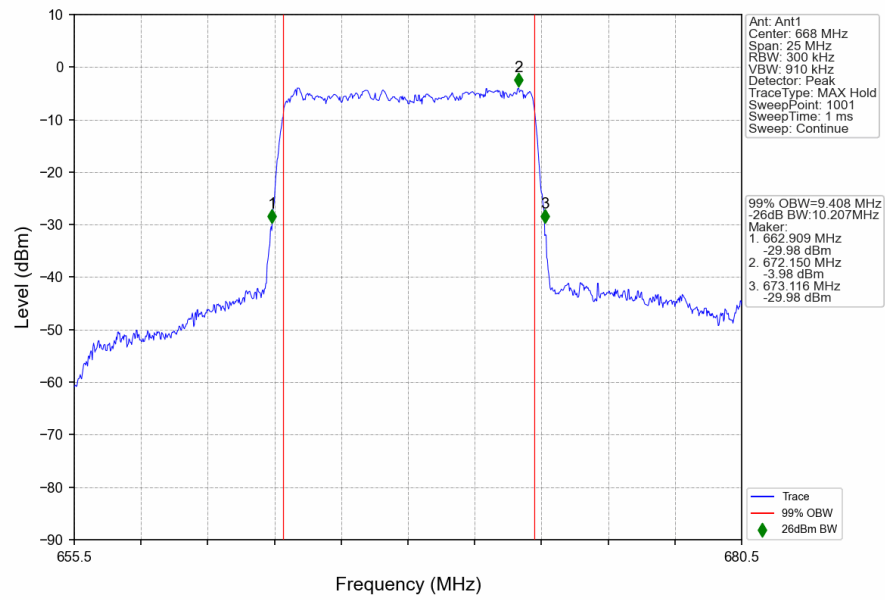
n71_15kHz_SISO_NTNV_10MHz_CP-OFDM_64_QAM_680.5MHz_Outer_Full



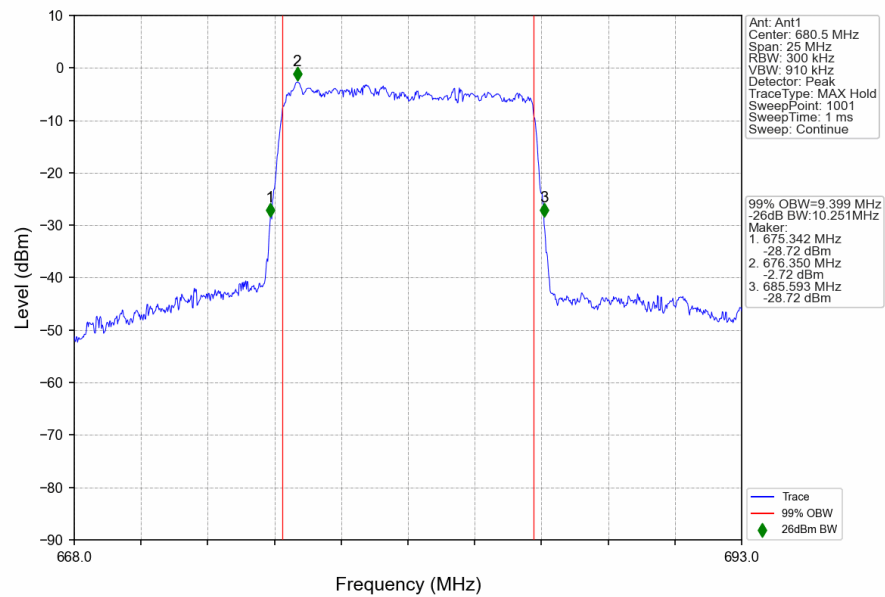
n71_15kHz_SISO_NTNV_10MHz_CP-OFDM_64_QAM_693MHz_Outer_Full



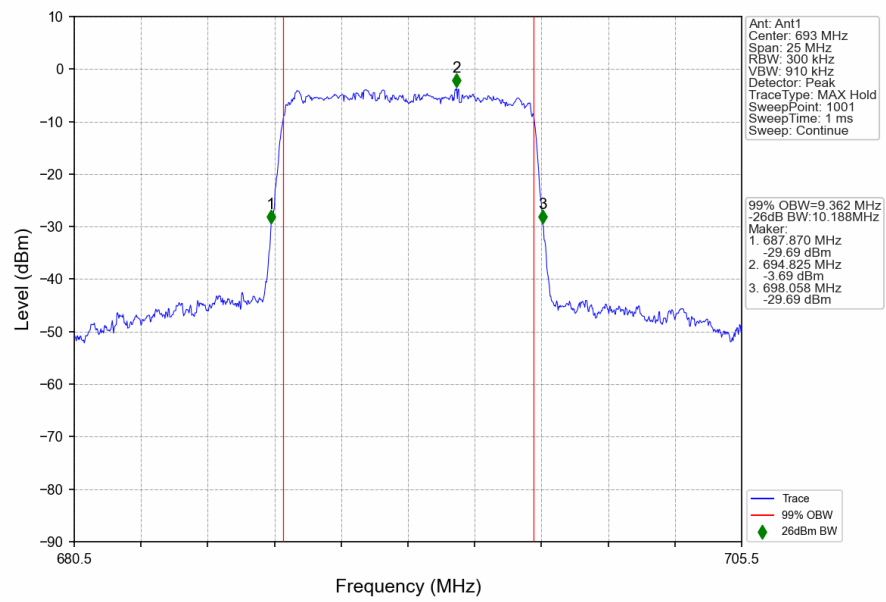
n71_15kHz_SISO_NTNV_10MHz_CP-OFDM 256 QAM 668MHz_Outer_Full



n71_15kHz_SISO_NTNV_10MHz_CP-OFDM 256 QAM 680.5MHz_Outer_Full



n71_15kHz_SISO_NTNV_10MHz_CP-OFDM_256_QAM_693MHz_Outer_Full

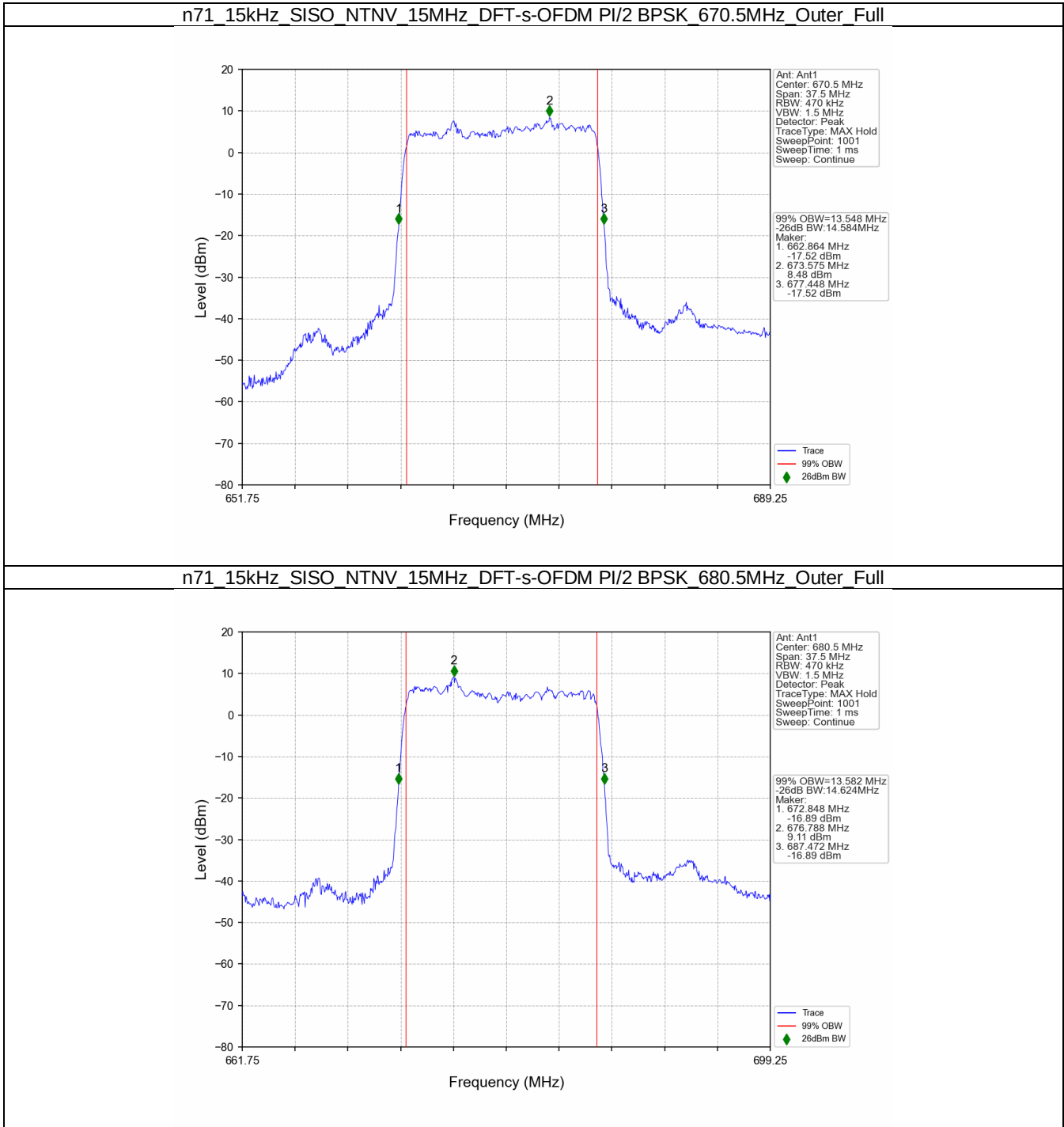


5.3 15k_SISO_15MHz_NTNV

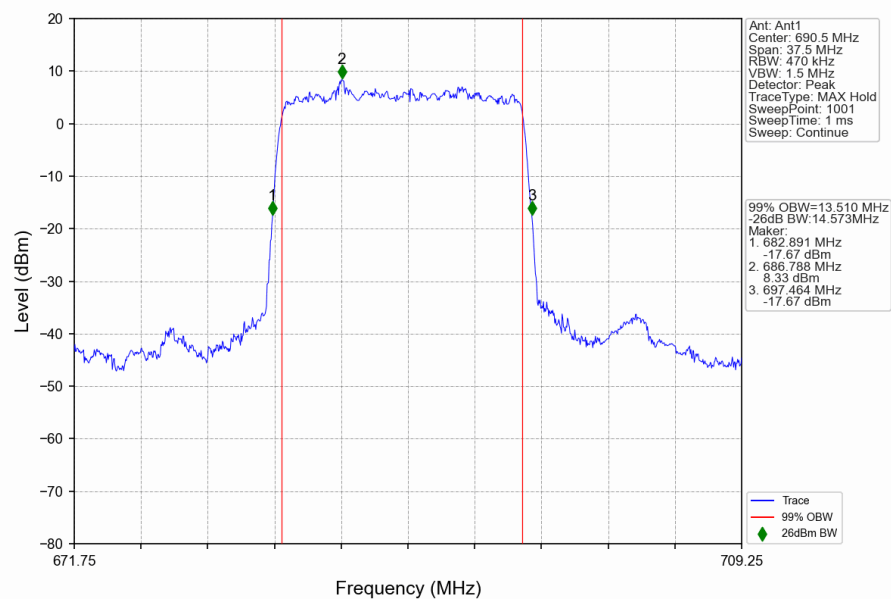
5.3.1 Test Result

5G NR n71 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	670.5	Outer_Full	13.55	14.58	/	Pass
	680.5	Outer_Full	13.58	14.62	/	Pass
	690.5	Outer_Full	13.51	14.57	/	Pass
DFT-s-OFDM QPSK	670.5	Outer_Full	13.58	14.63	/	Pass
	680.5	Outer_Full	13.60	14.68	/	Pass
	690.5	Outer_Full	13.56	14.67	/	Pass
DFT-s-OFDM 16 QAM	670.5	Outer_Full	13.63	14.75	/	Pass
	680.5	Outer_Full	13.63	14.64	/	Pass
	690.5	Outer_Full	13.60	14.71	/	Pass
DFT-s-OFDM 64 QAM	670.5	Outer_Full	13.52	14.62	/	Pass
	680.5	Outer_Full	13.54	14.63	/	Pass
	690.5	Outer_Full	13.50	14.60	/	Pass
DFT-s-OFDM 256 QAM	670.5	Outer_Full	13.58	14.59	/	Pass
	680.5	Outer_Full	13.58	14.71	/	Pass
	690.5	Outer_Full	13.53	14.61	/	Pass
CP-OFDM QPSK	670.5	Outer_Full	14.21	15.31	/	Pass
	680.5	Outer_Full	14.24	15.35	/	Pass
	690.5	Outer_Full	14.19	15.31	/	Pass
CP-OFDM 16 QAM	670.5	Outer_Full	14.24	15.32	/	Pass
	680.5	Outer_Full	14.26	15.33	/	Pass
	690.5	Outer_Full	14.19	15.30	/	Pass
CP-OFDM 64 QAM	670.5	Outer_Full	14.28	15.32	/	Pass
	680.5	Outer_Full	14.31	15.44	/	Pass
	690.5	Outer_Full	14.26	15.32	/	Pass
CP-OFDM 256 QAM	670.5	Outer_Full	14.20	15.29	/	Pass
	680.5	Outer_Full	14.22	15.33	/	Pass
	690.5	Outer_Full	14.18	15.38	/	Pass

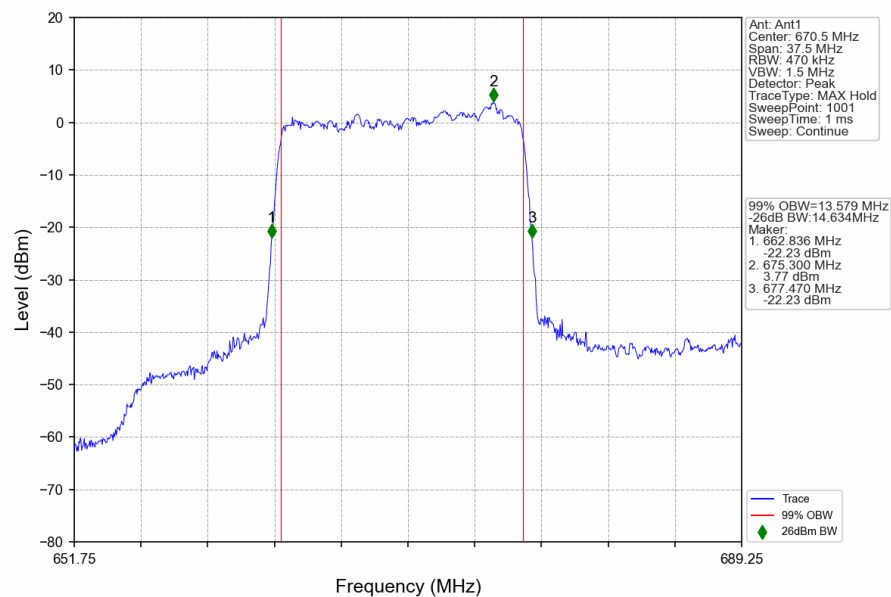
5.3.2 Test Graph



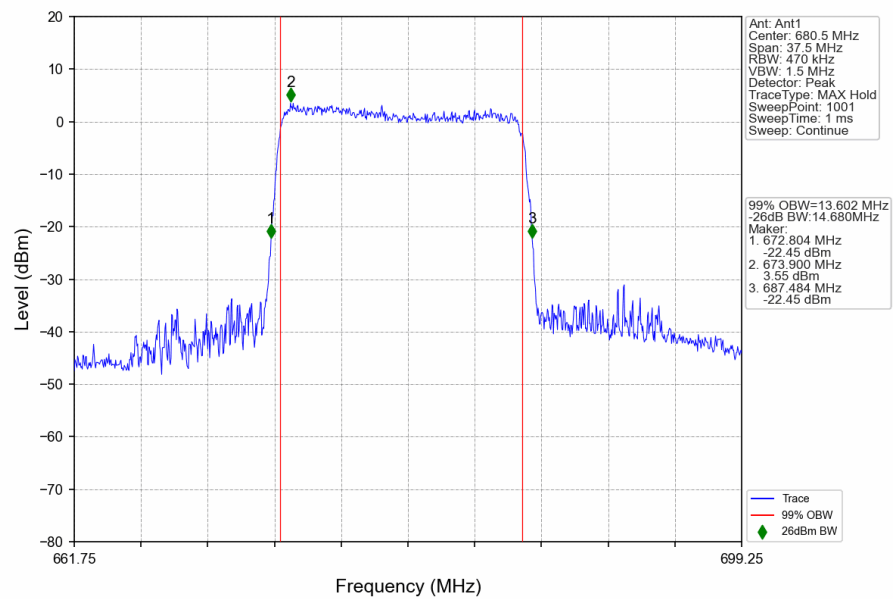
n71_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_690.5MHz_Outer_Full



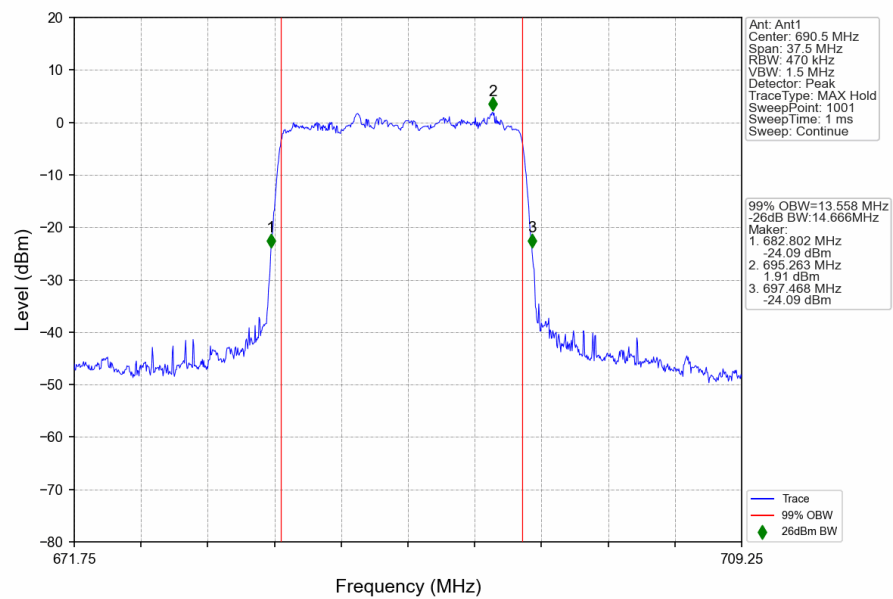
n71_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_670.5MHz_Outer_Full



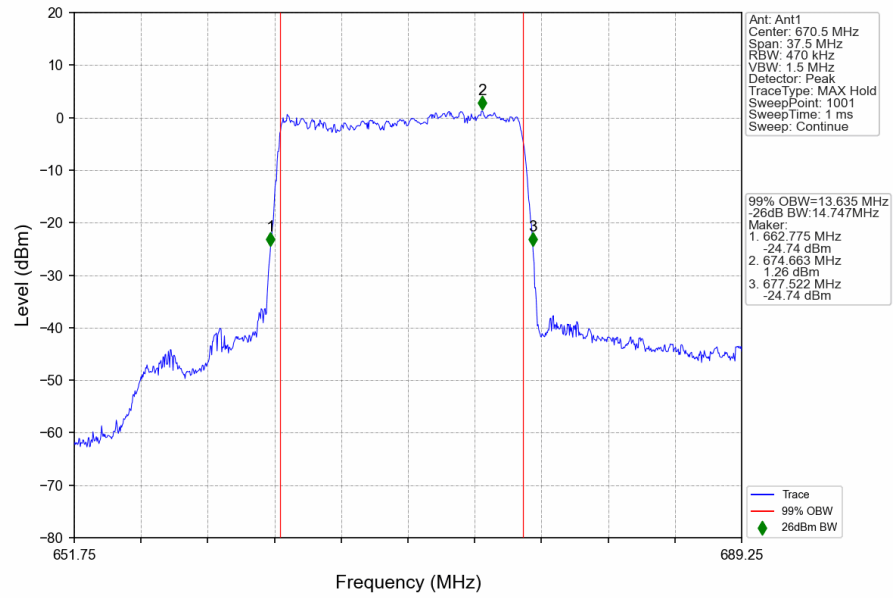
n71_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM_QPSK_680.5MHz_Outer_Full



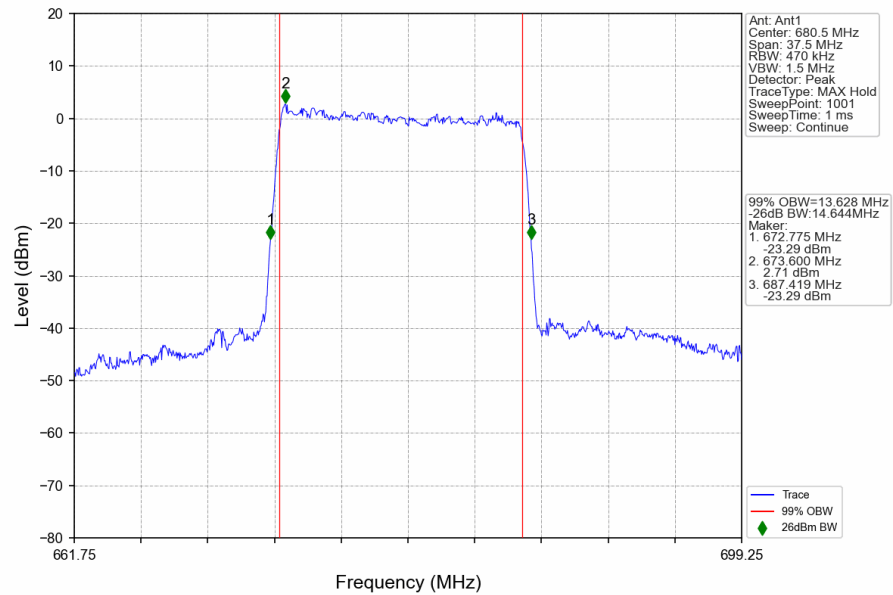
n71_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM_QPSK_690.5MHz_Outer_Full



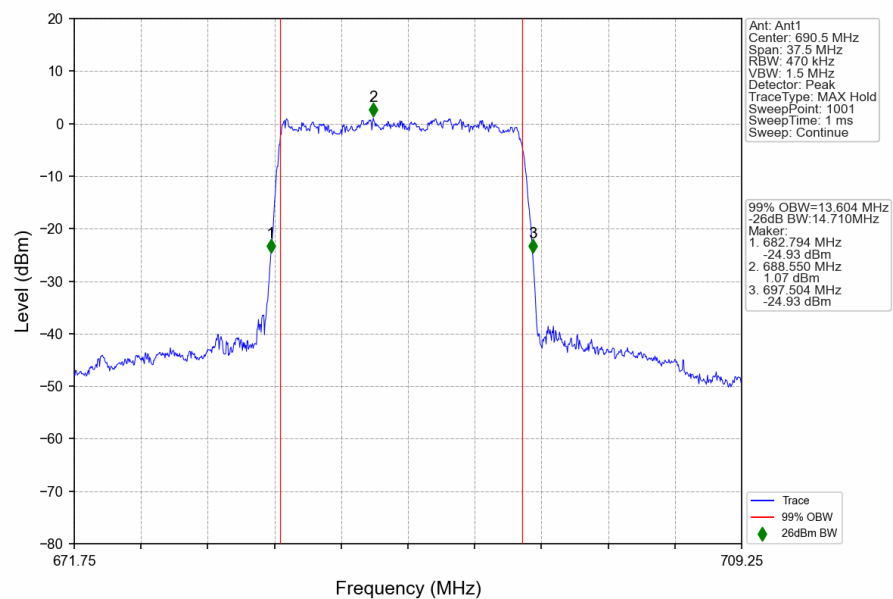
n71_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM_16_QAM_670.5MHz_Outer_Full



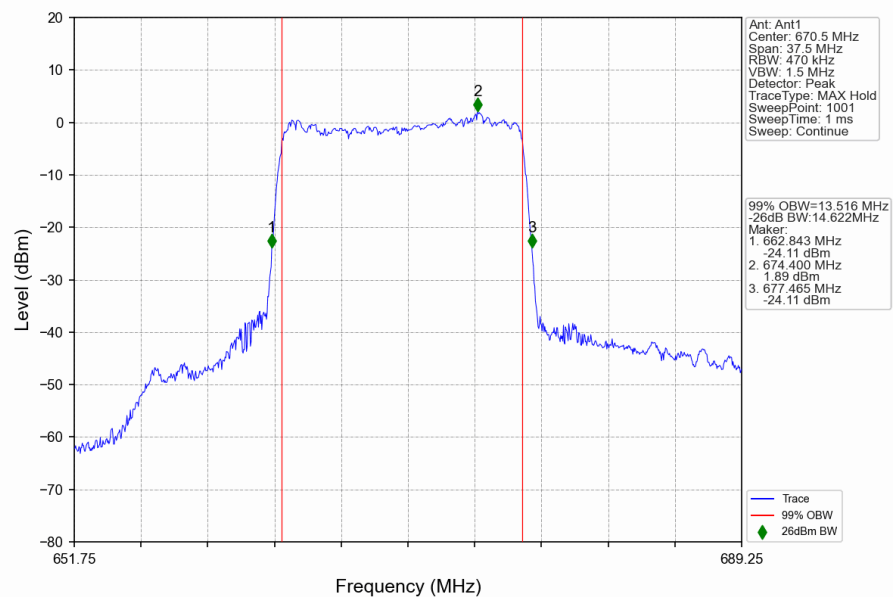
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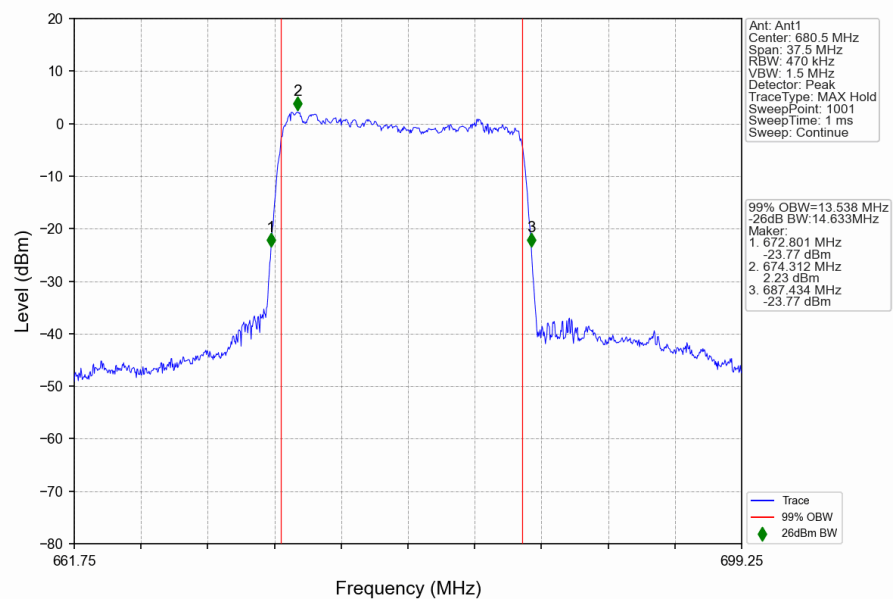
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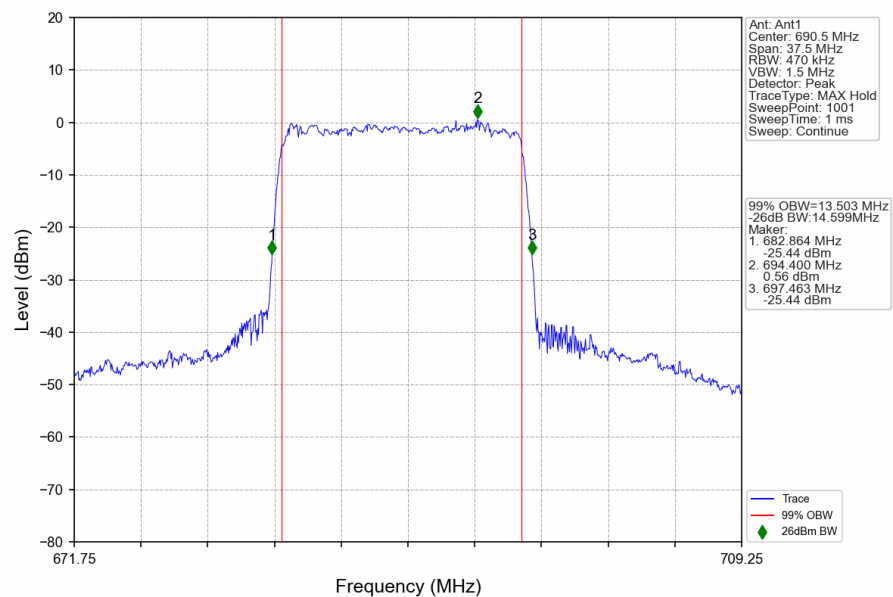
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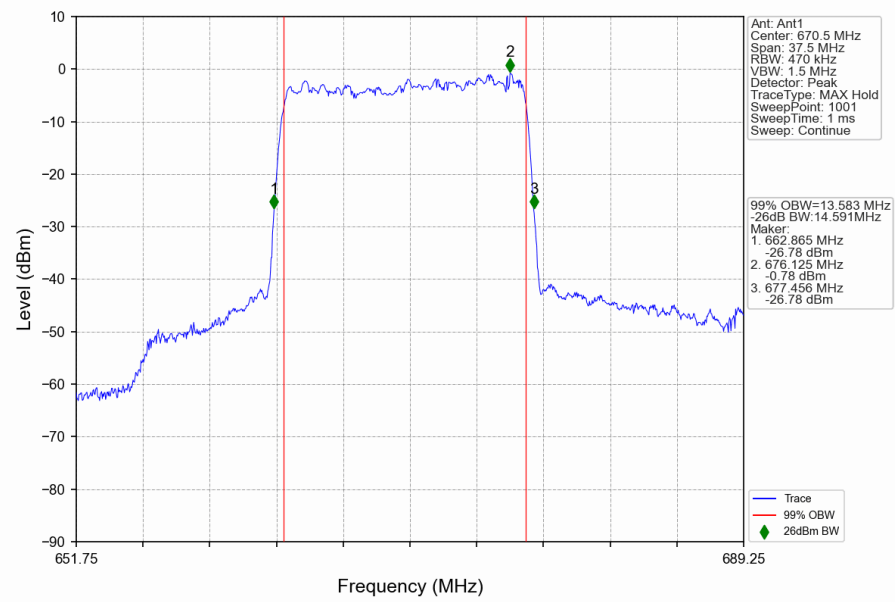
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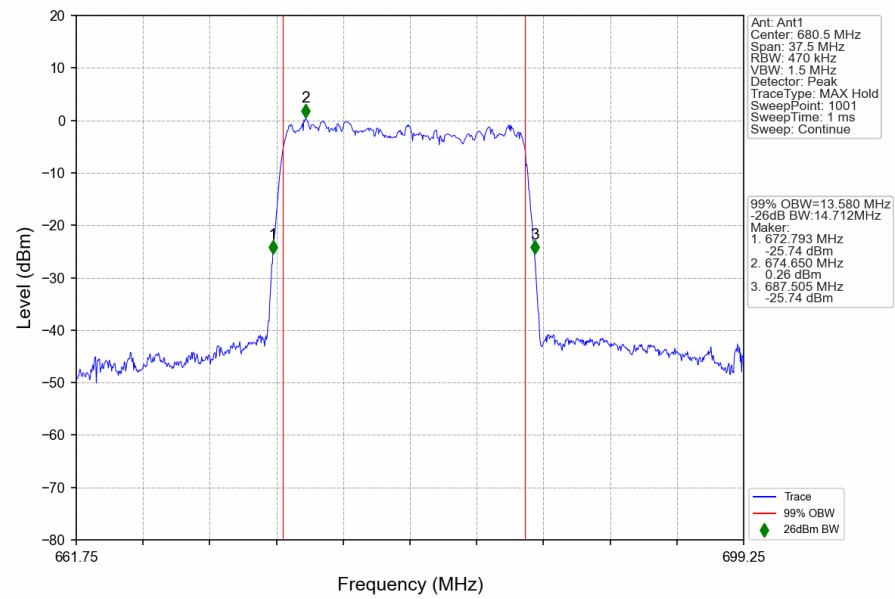
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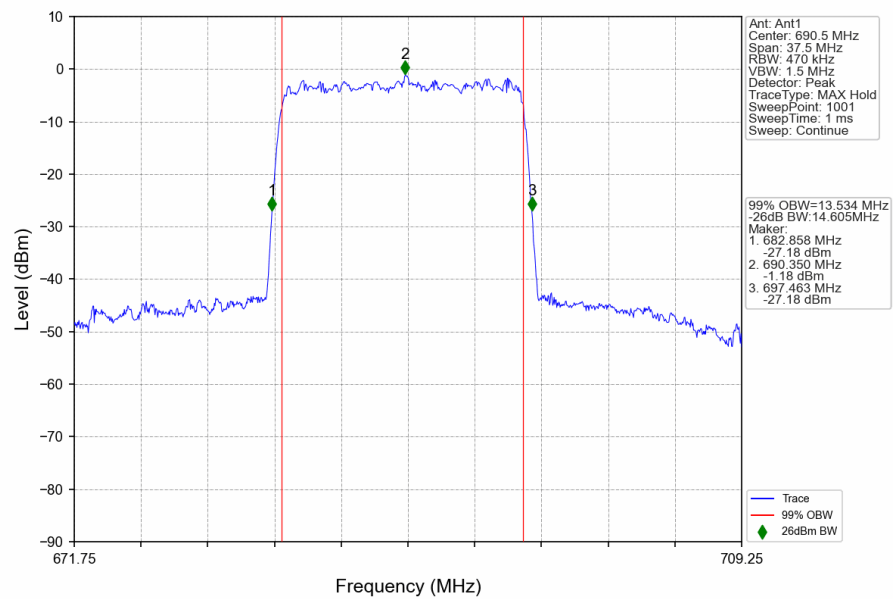
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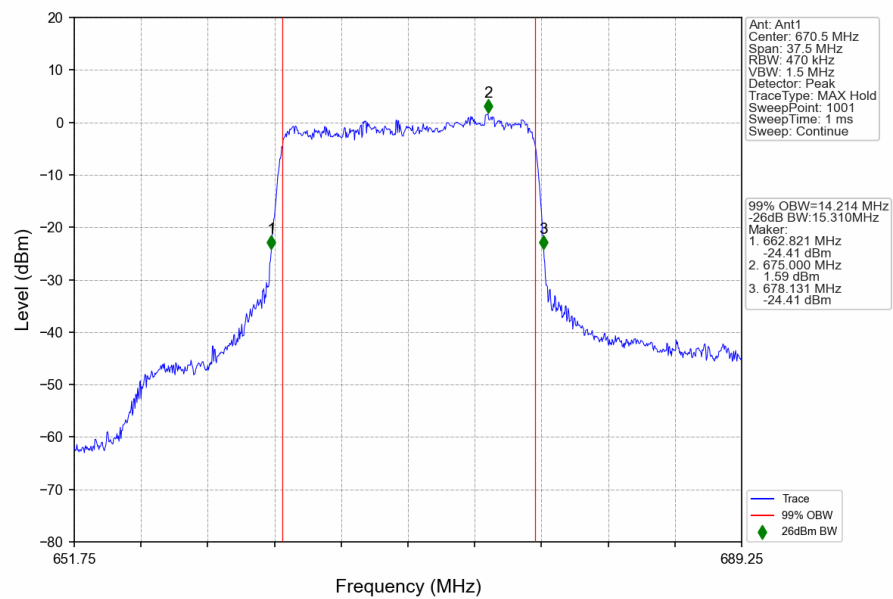
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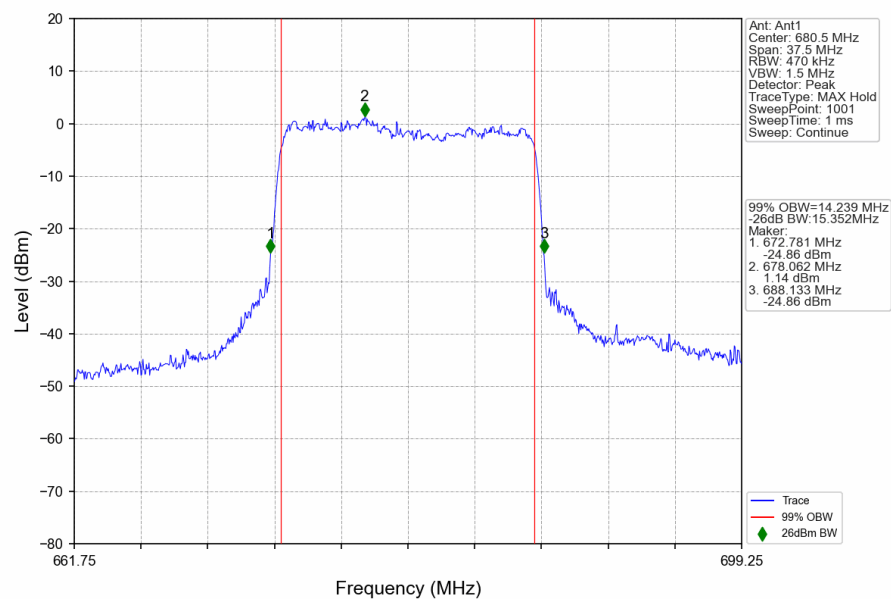
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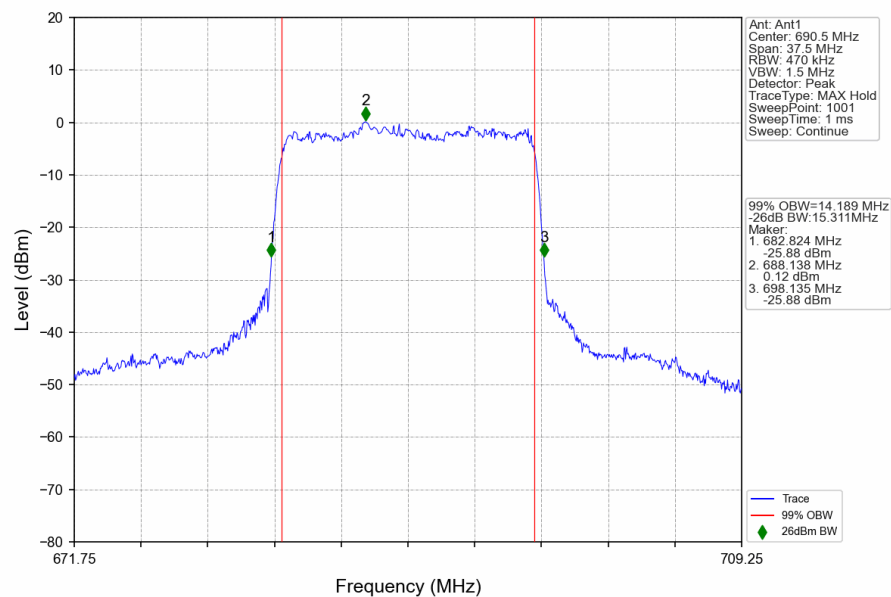
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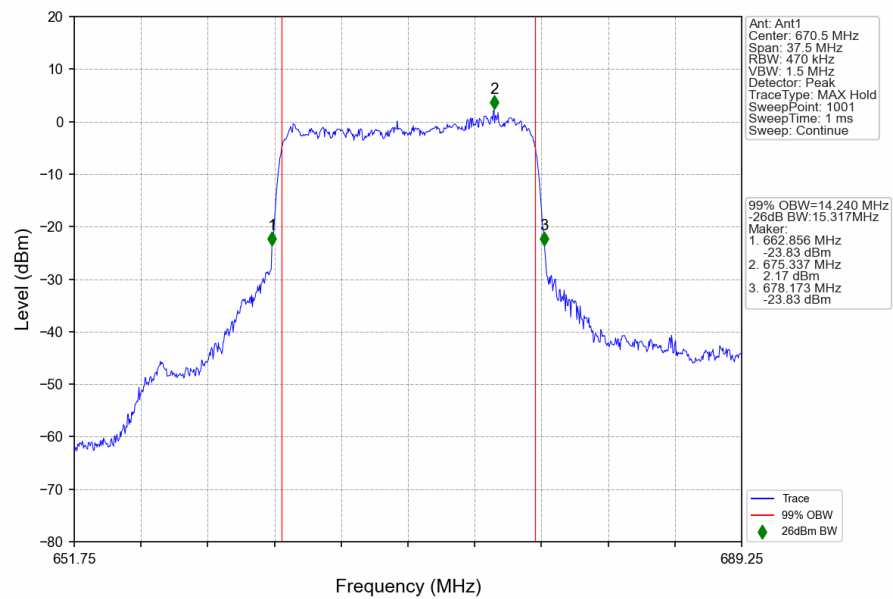
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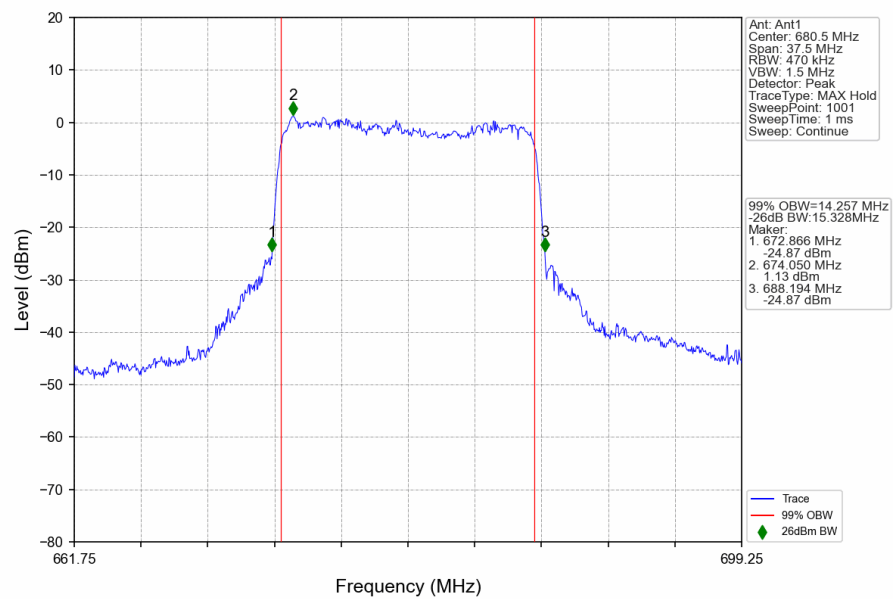
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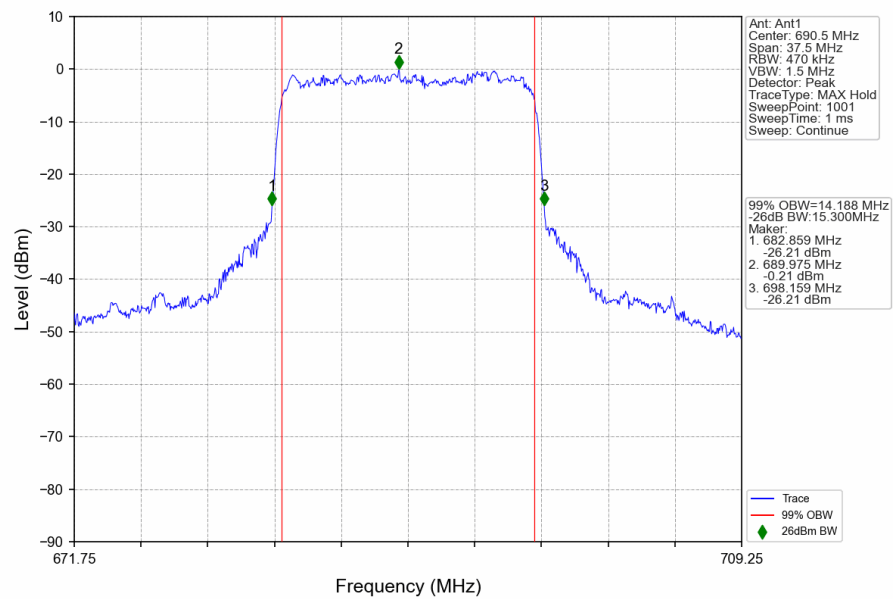
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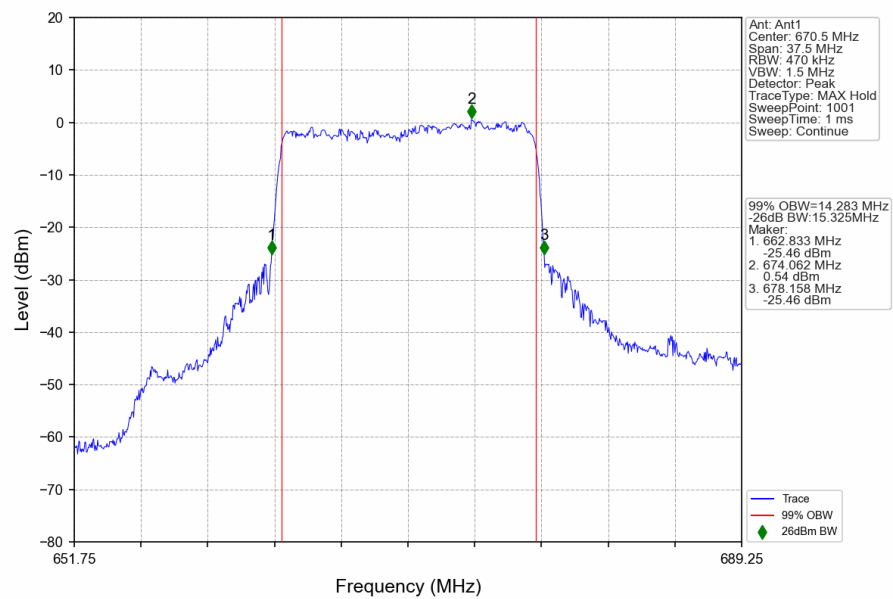
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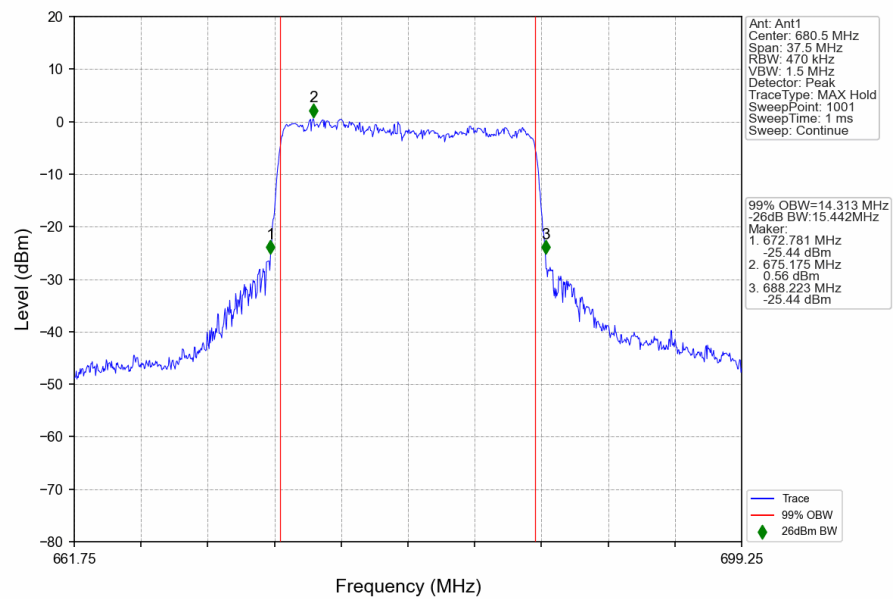
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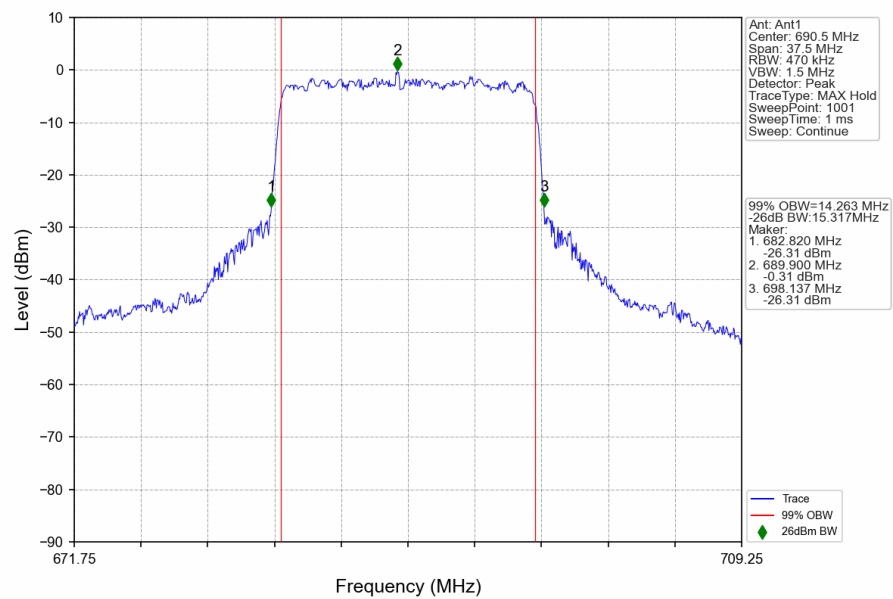
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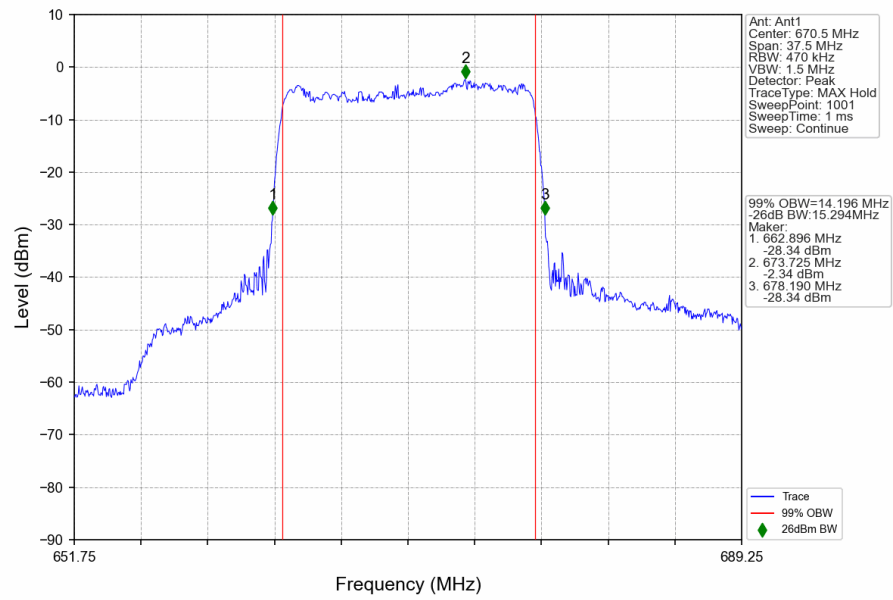
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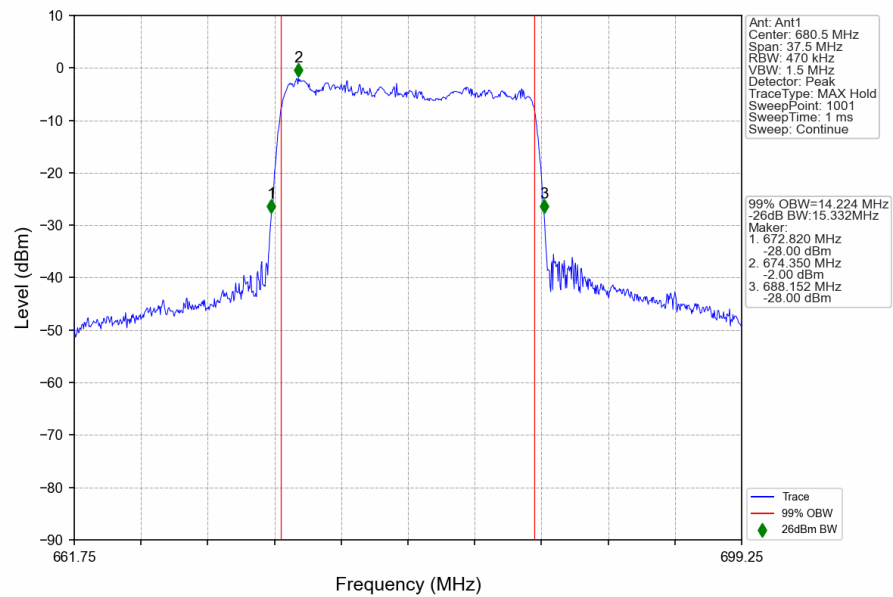
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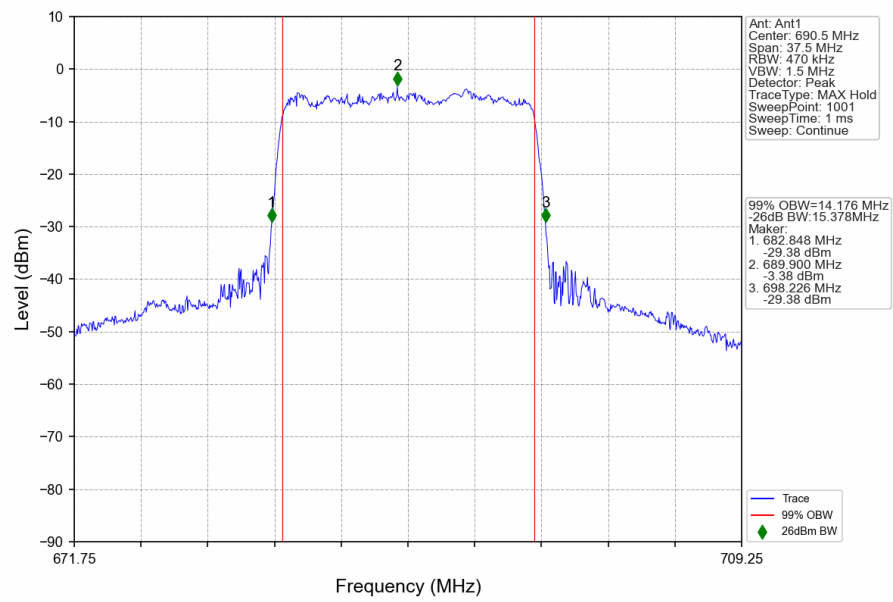
n71_15kHz_SISO_NTNV_15MHz_CP-OFDM_256_QAM_670.5MHz_Outer_Full



n71_15kHz_SISO_NTNV_15MHz_CP-OFDM_256_QAM_680.5MHz_Outer_Full



n71_15kHz_SISO_NTNV_15MHz_CP-OFDM_256_QAM_690.5MHz_Outer_Full

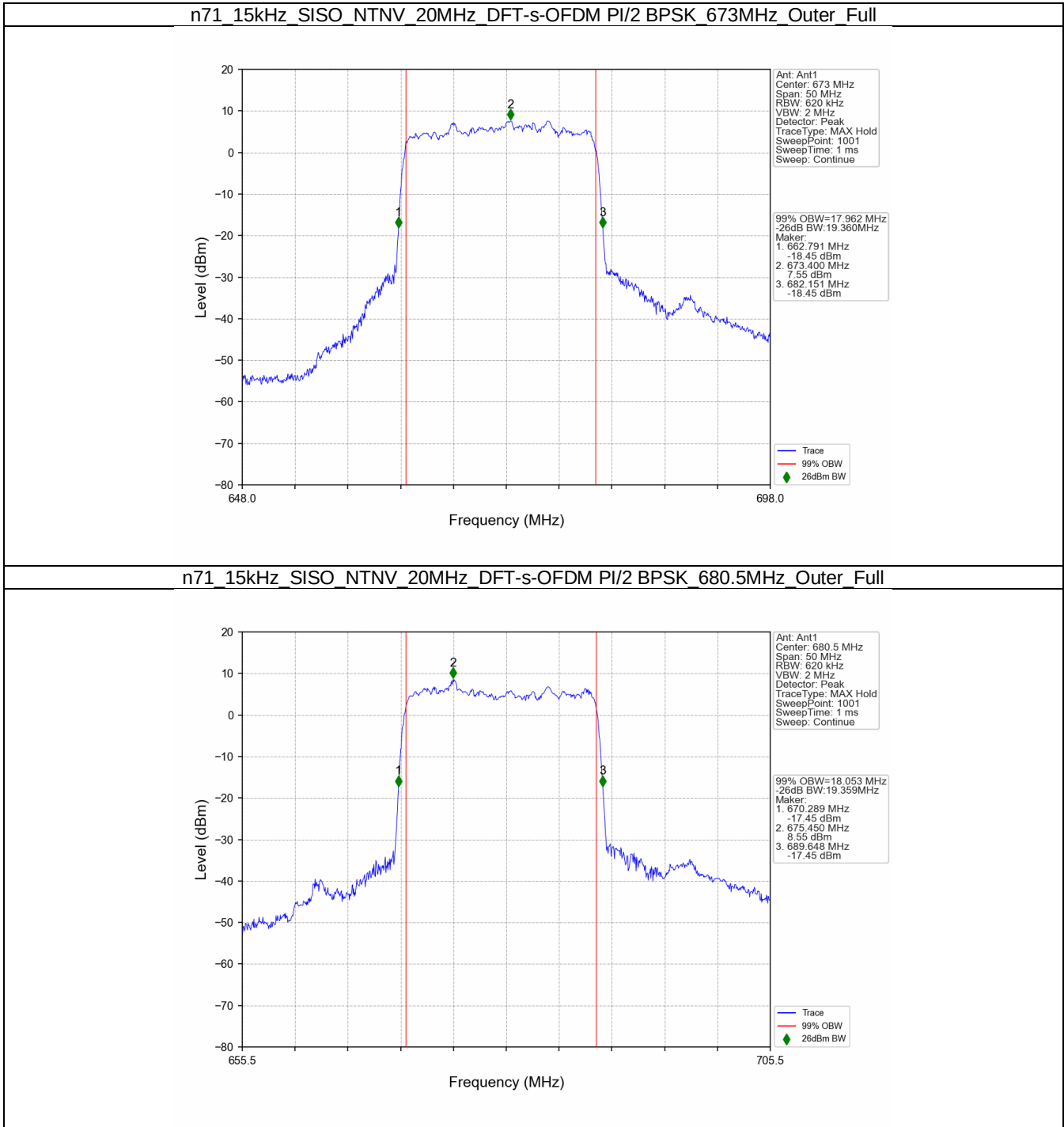


5.4 15k_SISO_20MHz_NTNV

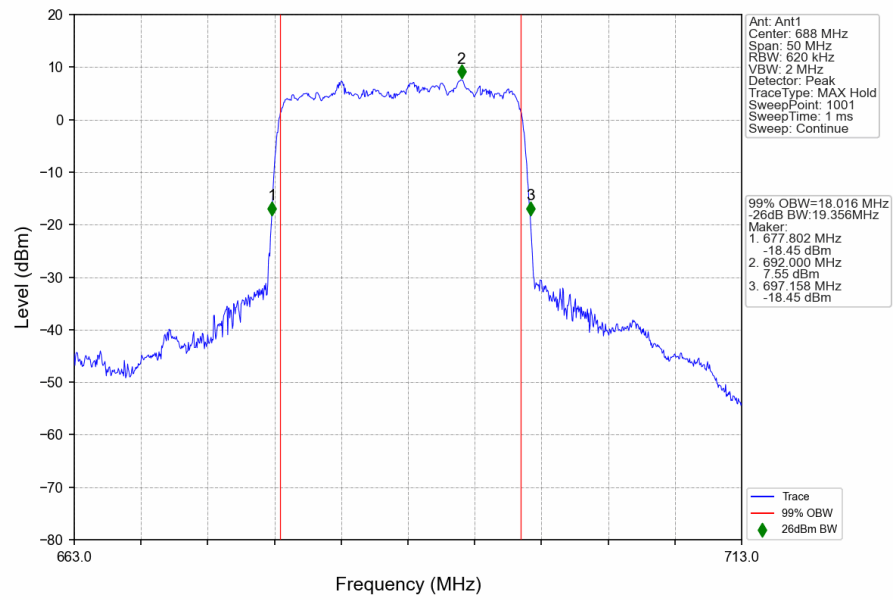
5.4.1 Test Result

5G NR n71 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	673	Outer_Full	17.96	19.36	/	Pass
	680.5	Outer_Full	18.05	19.36	/	Pass
	688	Outer_Full	18.02	19.36	/	Pass
DFT-s-OFDM QPSK	673	Outer_Full	17.94	19.41	/	Pass
	680.5	Outer_Full	18.00	19.38	/	Pass
	688	Outer_Full	18.00	19.44	/	Pass
DFT-s-OFDM 16 QAM	673	Outer_Full	17.93	19.34	/	Pass
	680.5	Outer_Full	17.99	19.38	/	Pass
	688	Outer_Full	17.98	19.36	/	Pass
DFT-s-OFDM 64 QAM	673	Outer_Full	17.95	19.36	/	Pass
	680.5	Outer_Full	18.02	19.37	/	Pass
	688	Outer_Full	18.00	19.48	/	Pass
DFT-s-OFDM 256 QAM	673	Outer_Full	17.94	19.32	/	Pass
	680.5	Outer_Full	18.02	19.34	/	Pass
	688	Outer_Full	18.00	19.35	/	Pass
CP-OFDM QPSK	673	Outer_Full	18.94	20.43	/	Pass
	680.5	Outer_Full	19.00	20.49	/	Pass
	688	Outer_Full	19.03	20.89	/	Pass
CP-OFDM 16 QAM	673	Outer_Full	19.00	20.59	/	Pass
	680.5	Outer_Full	19.07	20.83	/	Pass
	688	Outer_Full	19.05	21.21	/	Pass
CP-OFDM 64 QAM	673	Outer_Full	19.05	20.39	/	Pass
	680.5	Outer_Full	19.10	21.34	/	Pass
	688	Outer_Full	19.09	20.95	/	Pass
CP-OFDM 256 QAM	673	Outer_Full	19.07	20.54	/	Pass
	680.5	Outer_Full	19.15	20.58	/	Pass
	688	Outer_Full	19.11	20.57	/	Pass

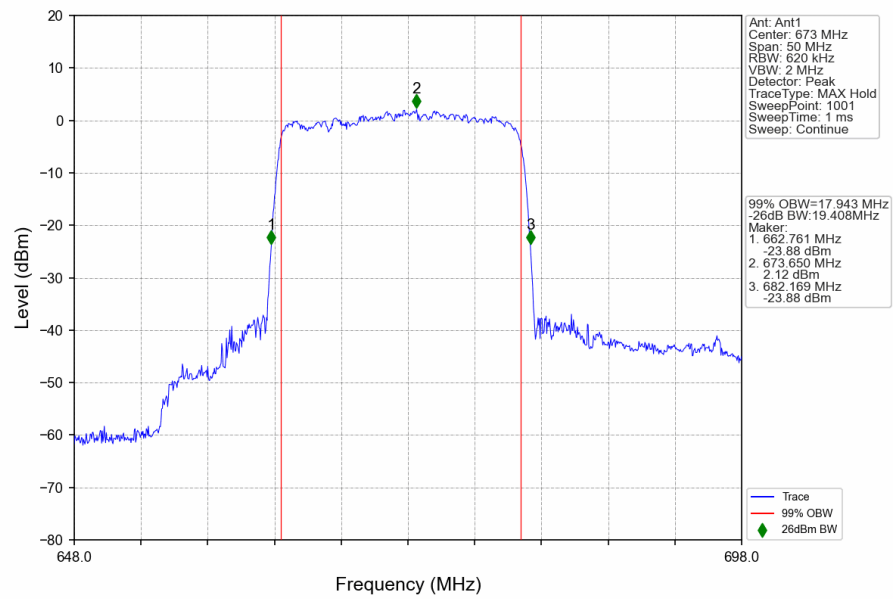
5.4.2 Test Graph



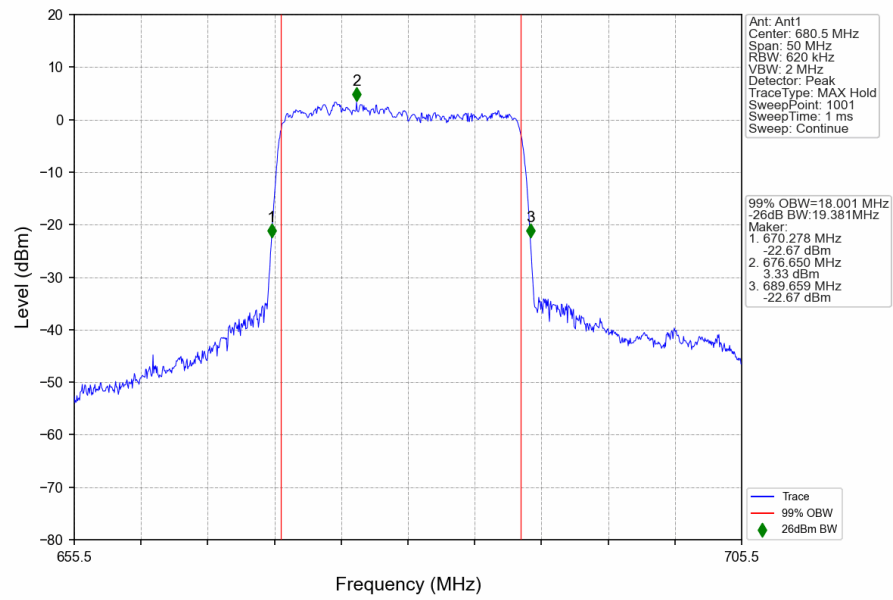
n71_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_PI/2_BPSK_688MHz_Outer_Full



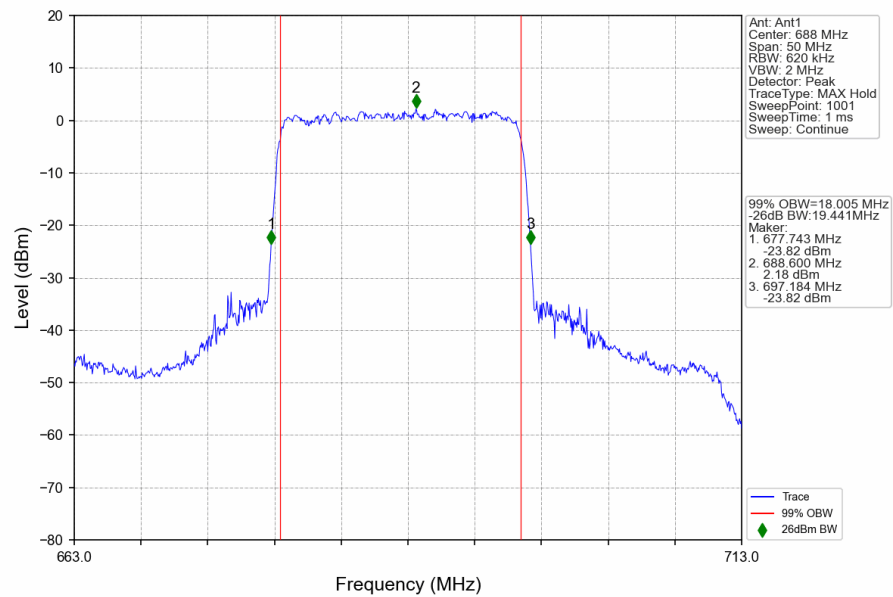
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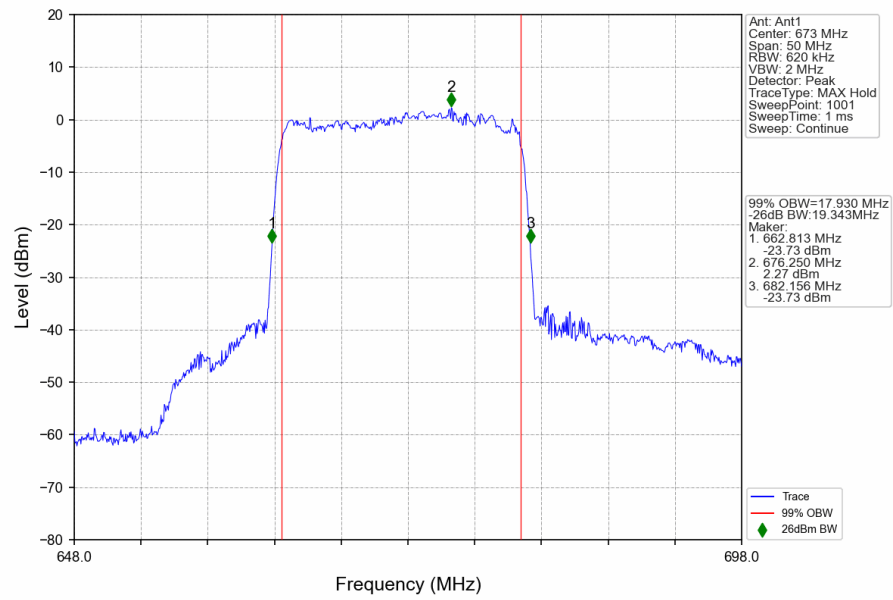
n71_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_QPSK_680.5MHz_Outer_Full



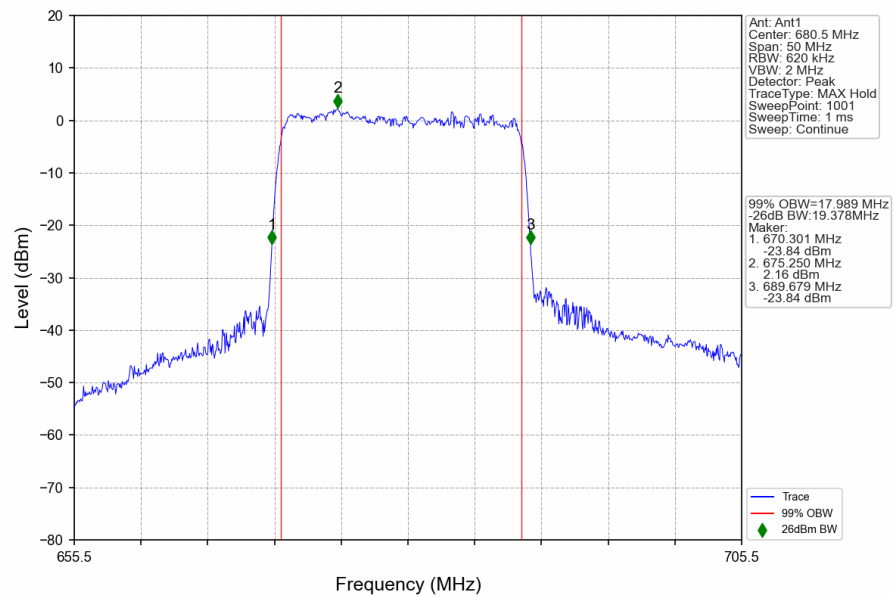
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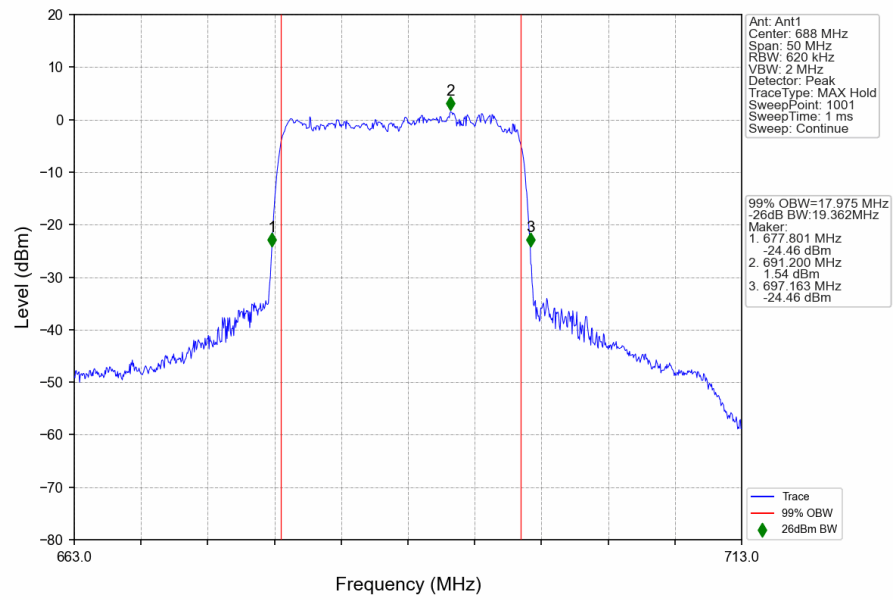
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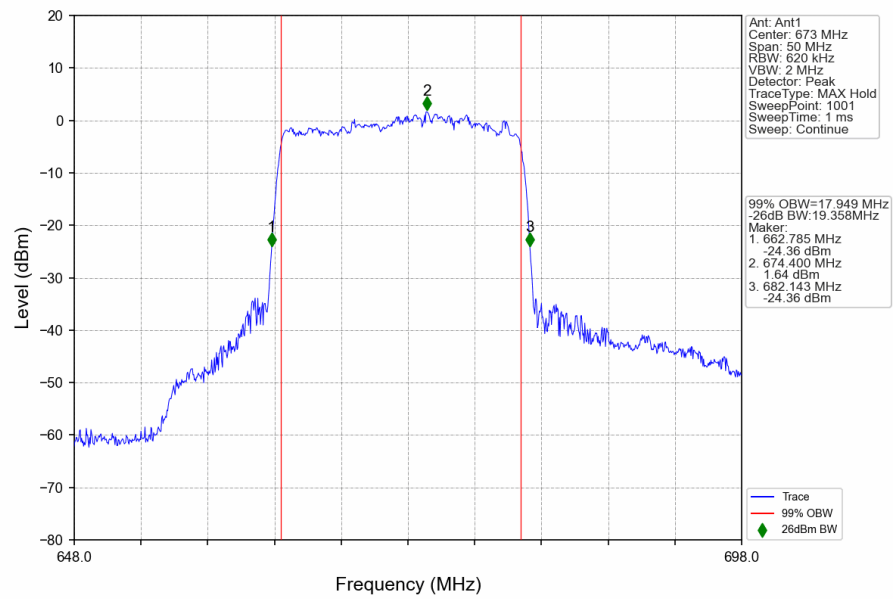
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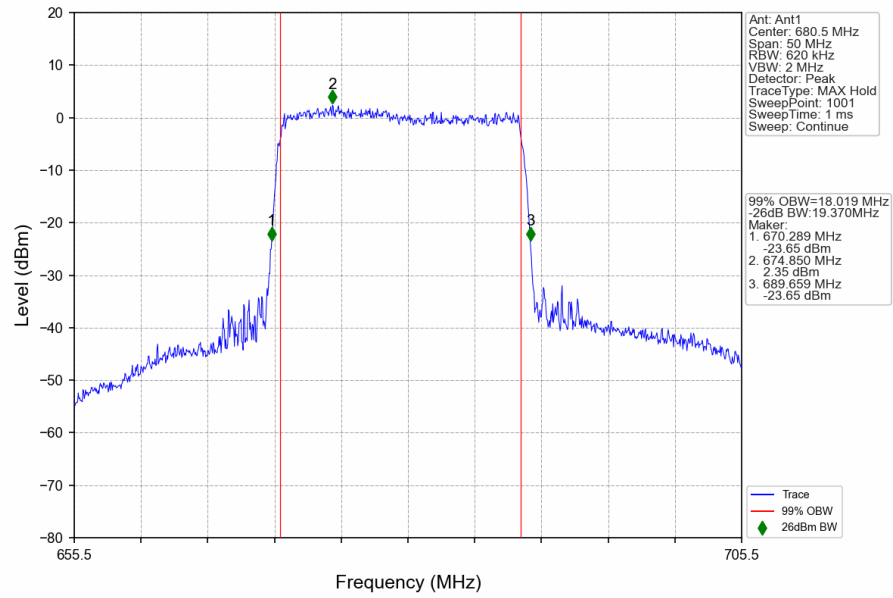
n71_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM 16 QAM_688MHz_Outer_Full



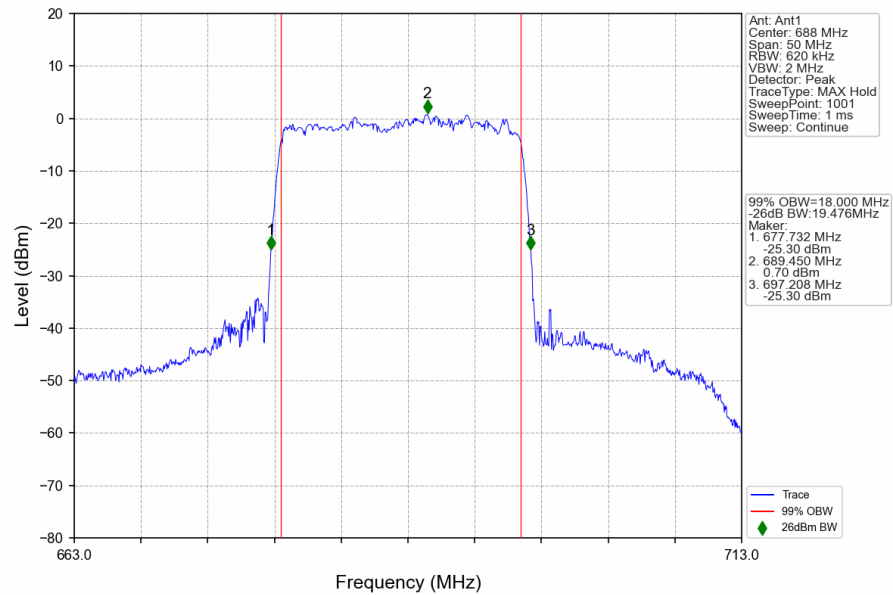
n71_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM 64 QAM_673MHz_Outer_Full



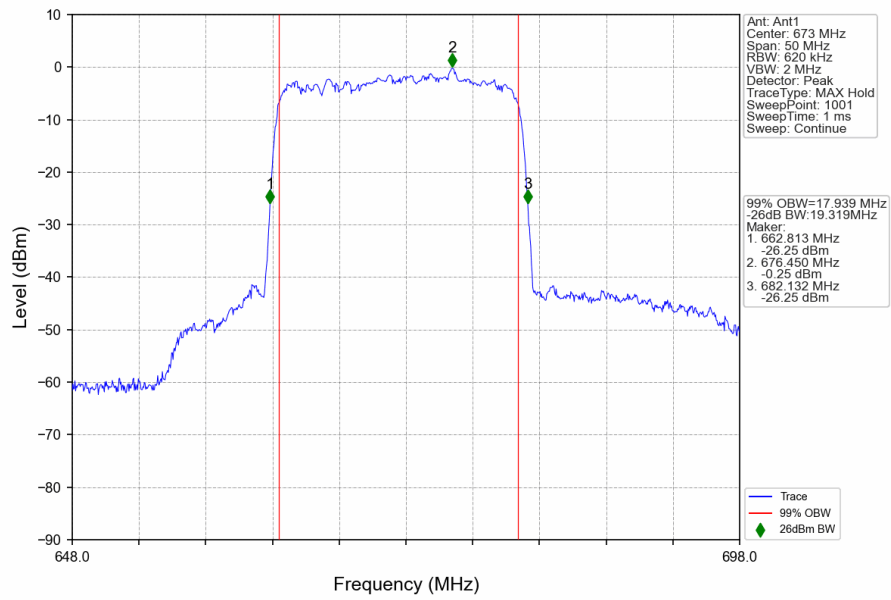
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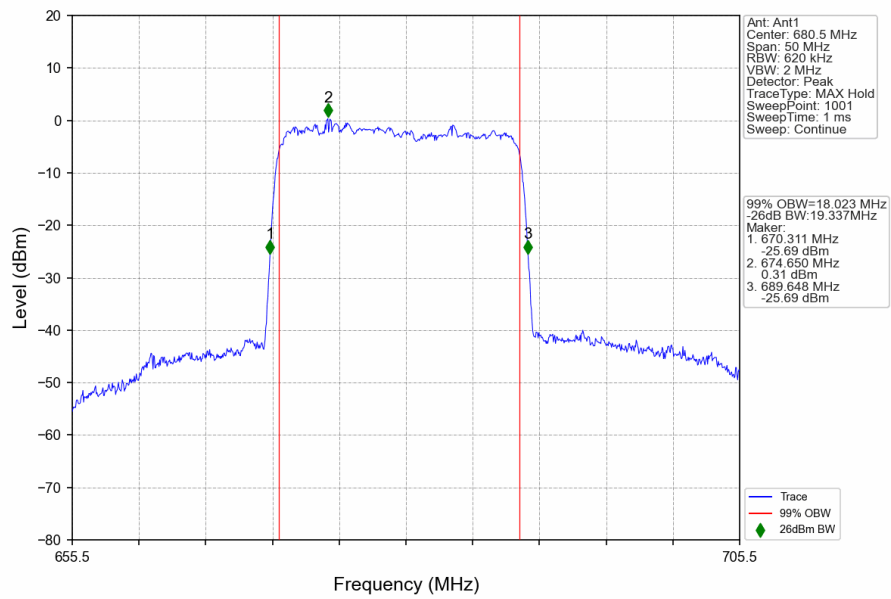
n71_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_64_QAM_688MHz_Outer_Full



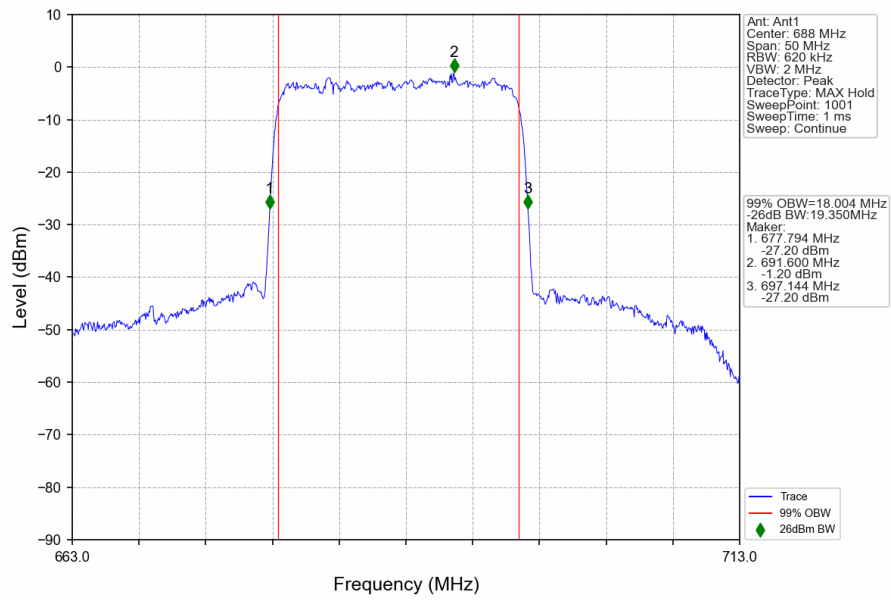
n71_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM 256 QAM_673MHz_Outer_Full



n71_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM 256 QAM_680.5MHz_Outer_Full



n71_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM 256 QAM_688MHz_Outer_Full



n71_15kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_673MHz_Outer_Full

