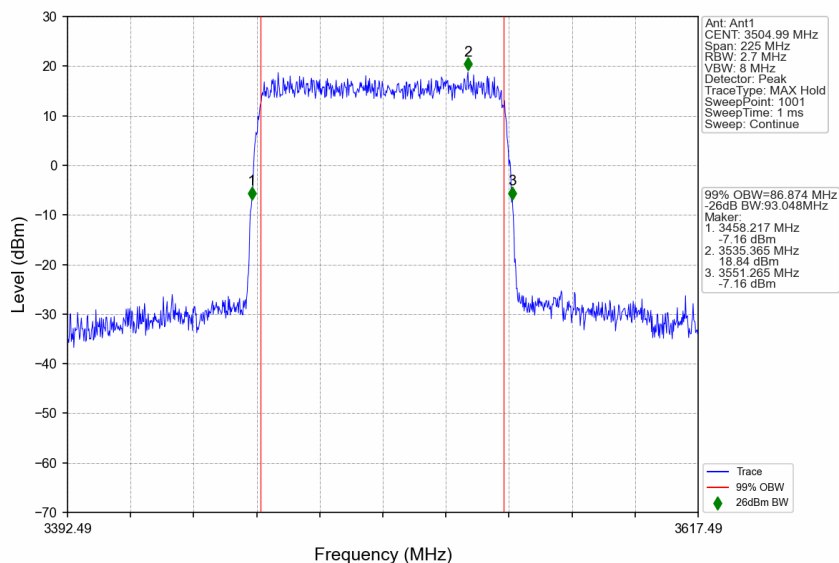


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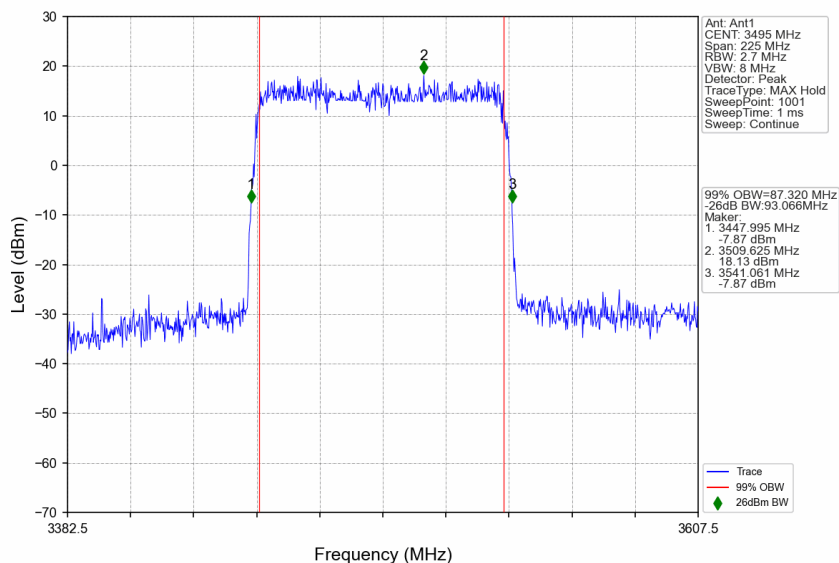
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n77d_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM_16_QAM_3504.99MHz_Outer_Full



n77d_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM_64_QAM_3495MHz_Outer_Full



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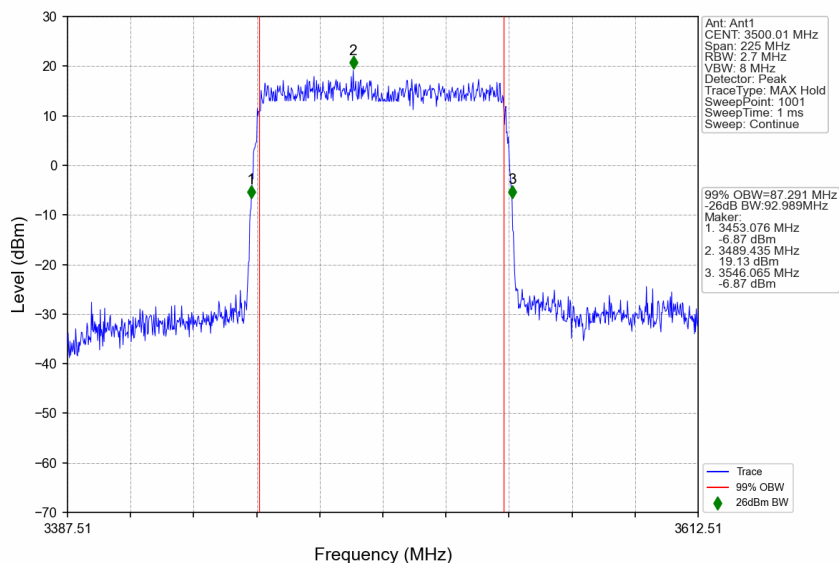
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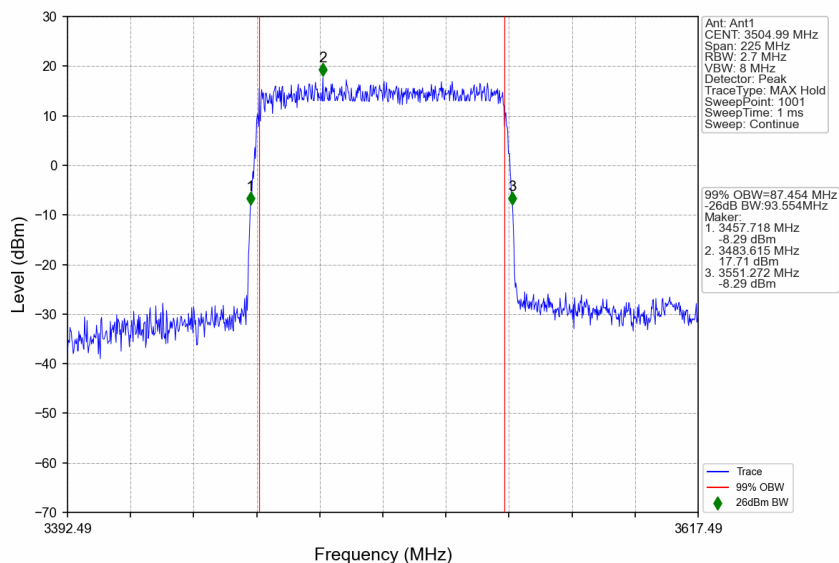
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n77d_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM_64_QAM_3500.01MHz_Outer_Full



n77d_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM_64_QAM_3504.99MHz_Outer_Full



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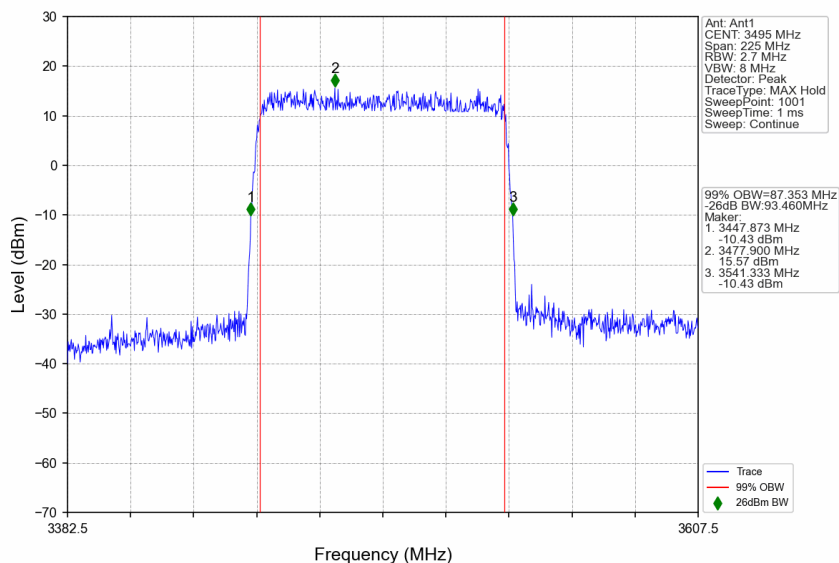
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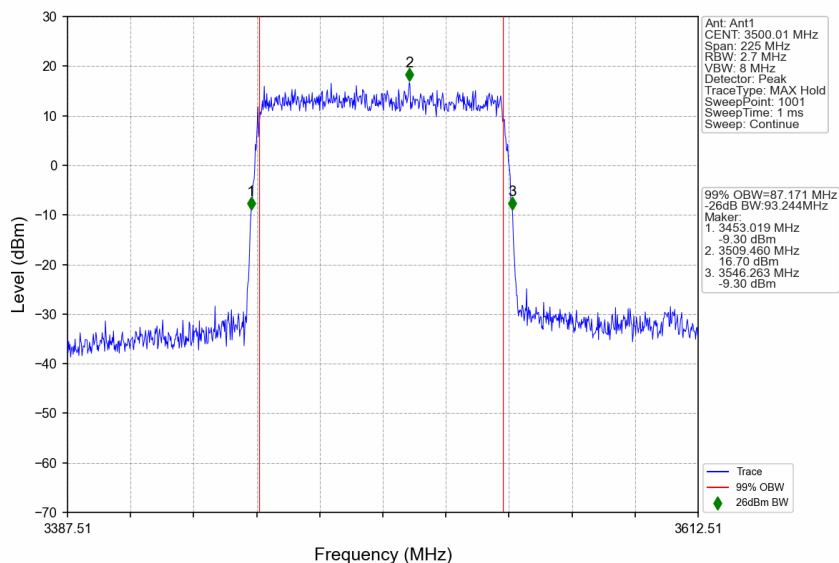
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n77d_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM_256_QAM_3495MHz_Outer_Full



n77d_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM_256_QAM_3500.01MHz_Outer_Full



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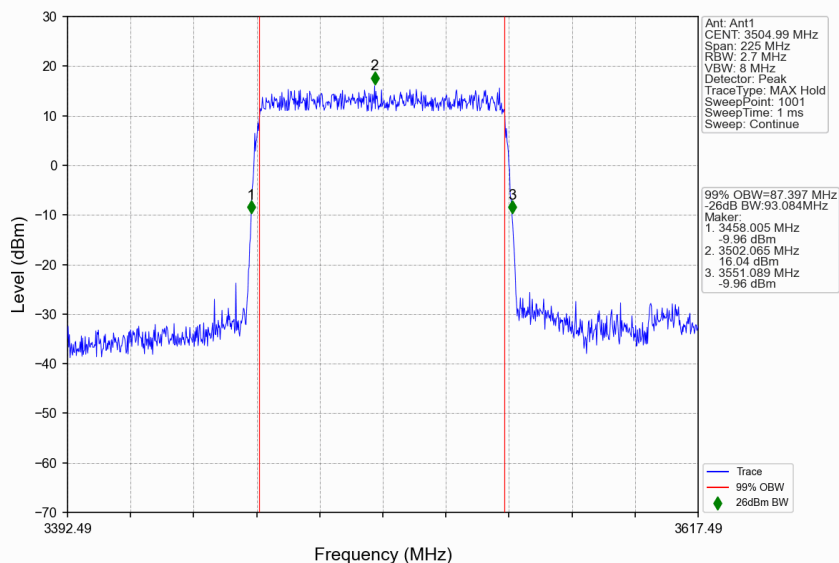
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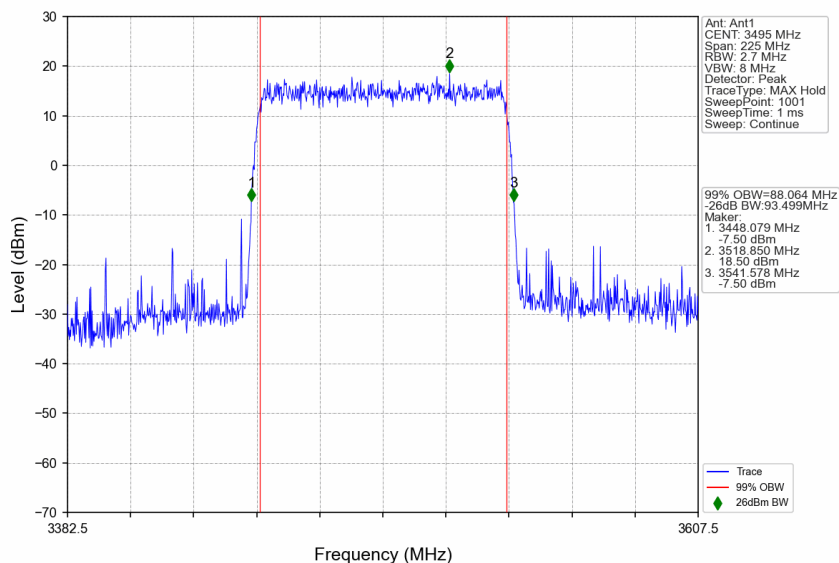
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n77d_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM_256_QAM_3504.99MHz_Outer_Full



n77d_30kHz_SISO_NTNV_90MHz_CP-OFDM_QPSK_3495MHz_Outer_Full



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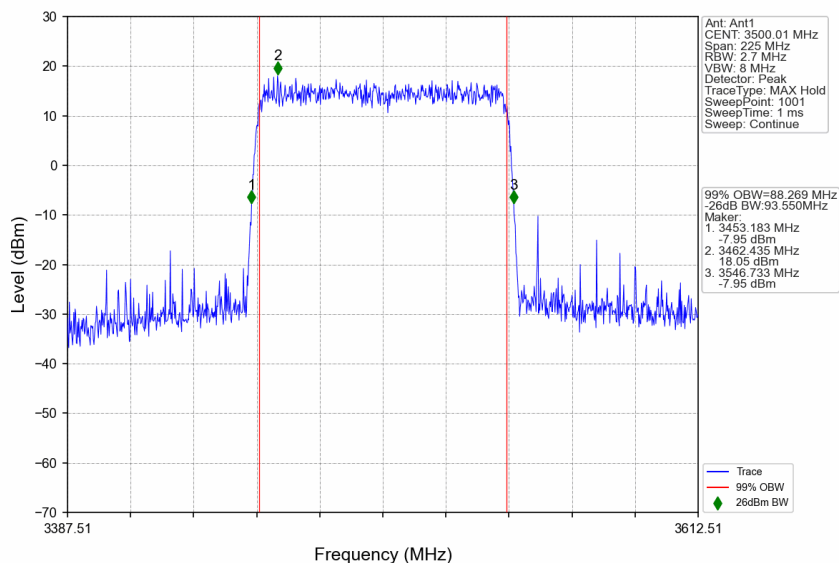
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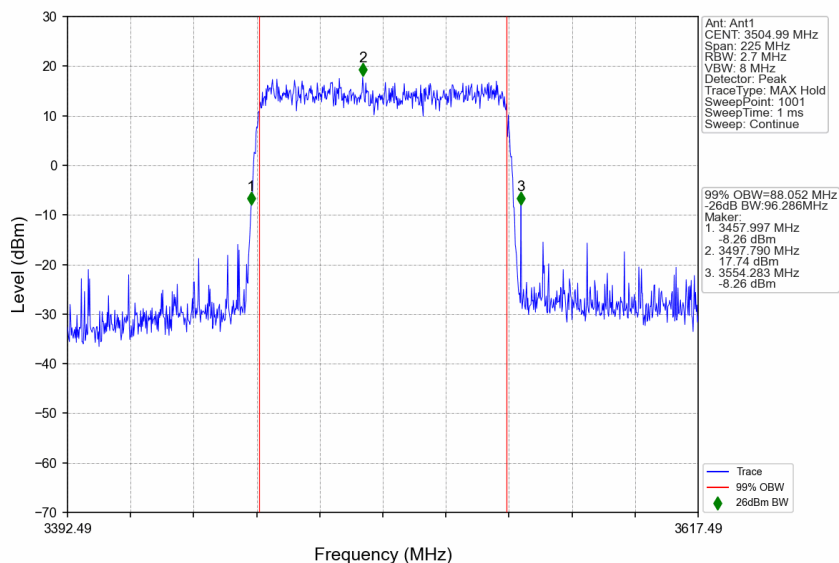
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n77d_30kHz_SISO_NTNV_90MHz_CP-OFDM QPSK_3500.01MHz_Outer_Full



n77d_30kHz_SISO_NTNV_90MHz_CP-OFDM QPSK_3504.99MHz_Outer_Full



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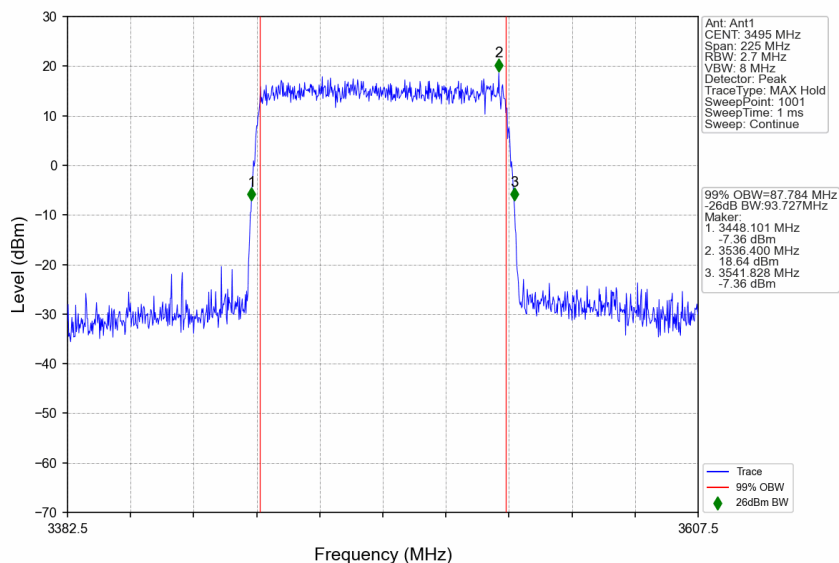
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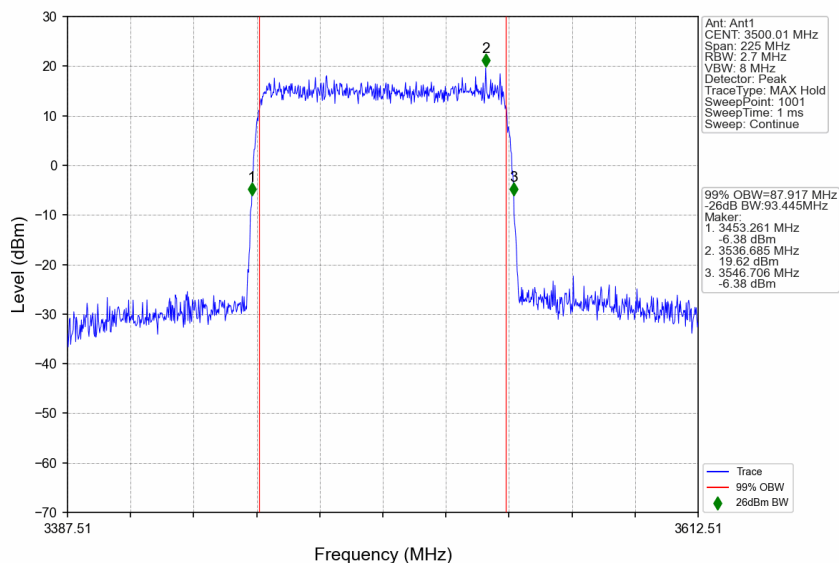
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n77d_30kHz_SISO_NTNV_90MHz_CP-OFDM_16 QAM_3495MHz_Outer_Full



n77d_30kHz_SISO_NTNV_90MHz_CP-OFDM_16 QAM_3500.01MHz_Outer_Full



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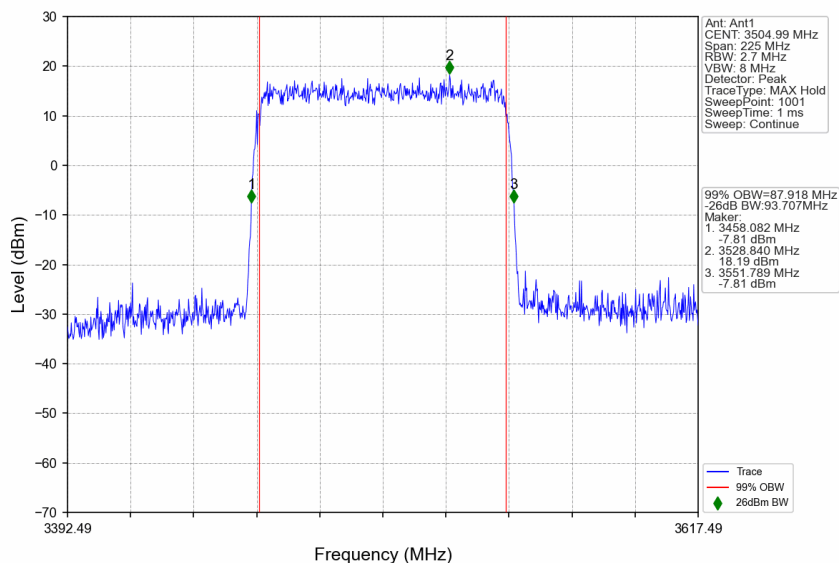
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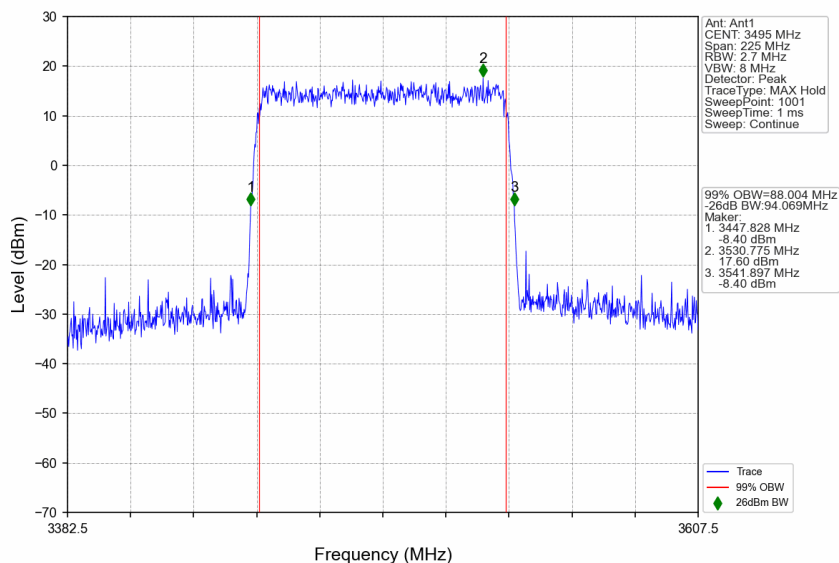
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n77d_30kHz_SISO_NTNV_90MHz_CP-OFDM 16 QAM_3504.99MHz_Outer_Full



n77d_30kHz_SISO_NTNV_90MHz_CP-OFDM 64 QAM_3495MHz_Outer_Full



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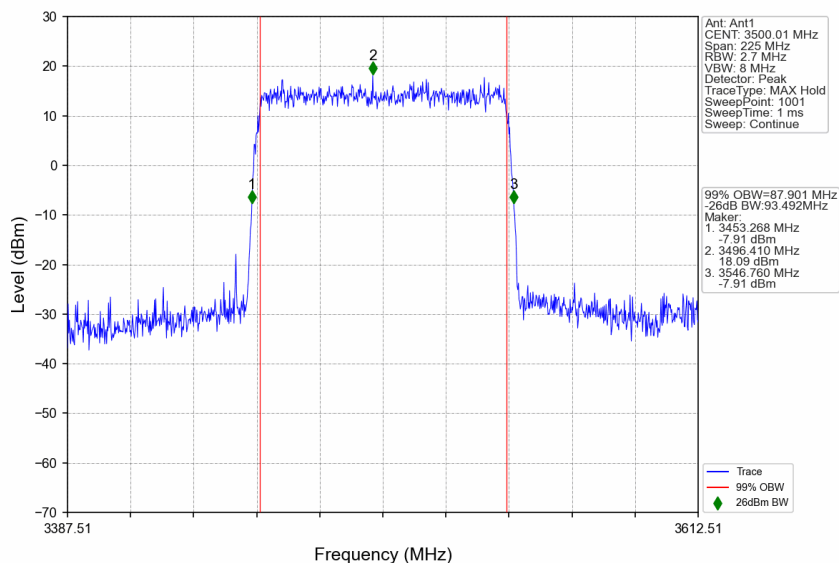
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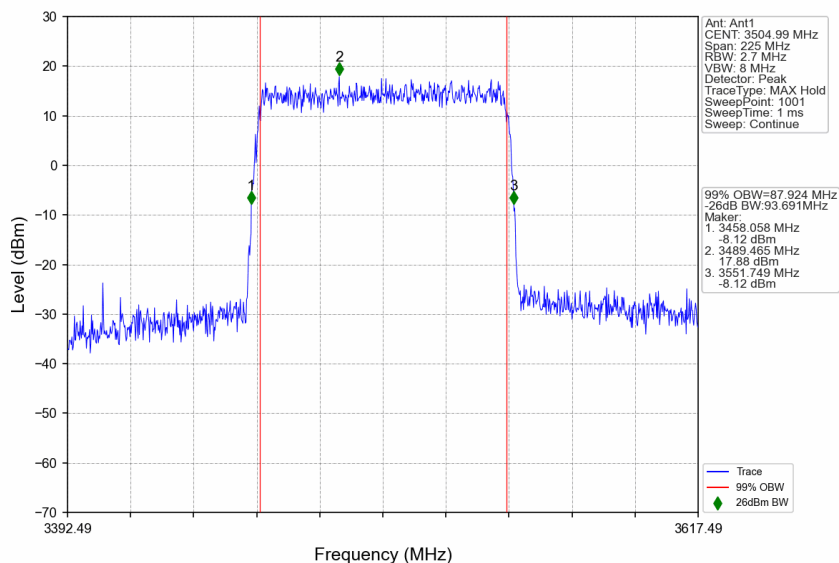
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n77d_30kHz_SISO_NTNV_90MHz_CP-OFDM_64_QAM_3500.01MHz_Outer_Full



n77d_30kHz_SISO_NTNV_90MHz_CP-OFDM_64_QAM_3504.99MHz_Outer_Full



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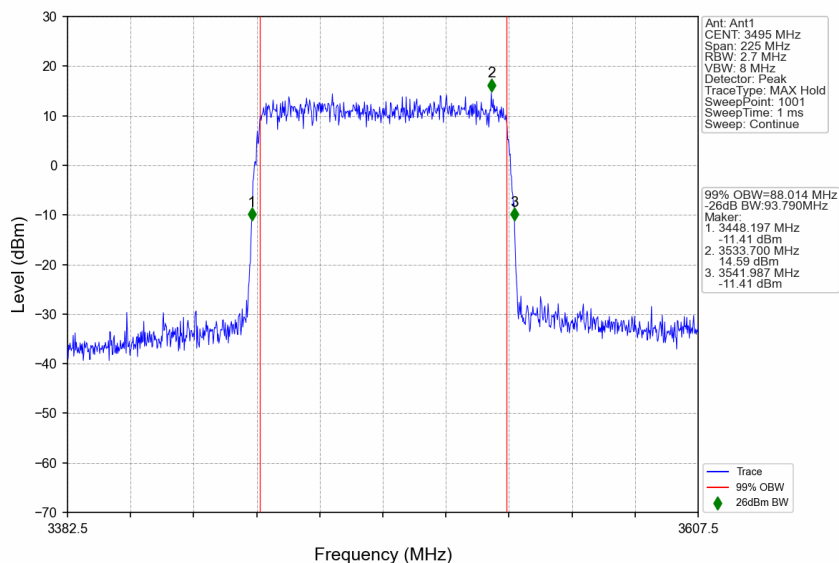
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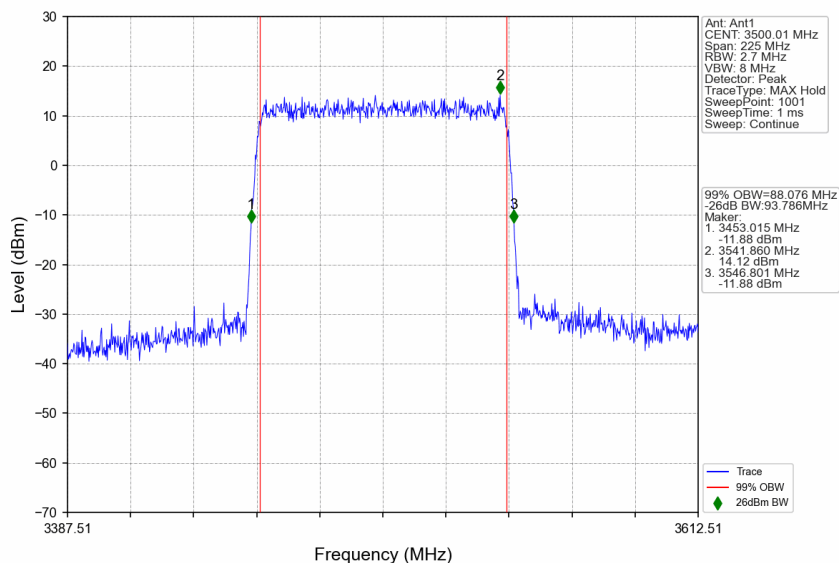
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n77d_30kHz_SISO_NTNV_90MHz_CP-OFDM 256 QAM_3495MHz_Outer_Full



n77d_30kHz_SISO_NTNV_90MHz_CP-OFDM 256 QAM_3500.01MHz_Outer_Full



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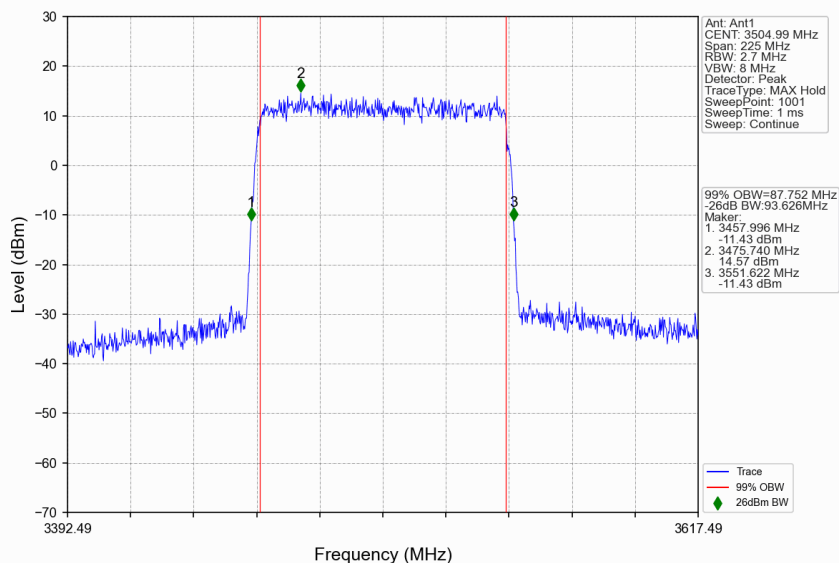
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4.19 30k_SISO_100MHz_NTNV

4.19.1 Test Result

5G NR n77d SCS=30kHz SISO 100MHz NTV						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3500.01	Outer Full	97.25	103.32	/	Pass
	3500.01	Outer Full	97.35	103.32	/	Pass
	3499.98	Outer Full	97.35	103.23	/	Pass
DFT-s-OFDM QPSK	3500.01	Outer Full	96.86	103.38	/	Pass
	3500.01	Outer Full	97.17	103.27	/	Pass
	3499.98	Outer Full	97.05	103.34	/	Pass
DFT-s-OFDM 16 QAM	3500.01	Outer Full	97.07	102.99	/	Pass
	3500.01	Outer Full	97.69	103.20	/	Pass
	3499.98	Outer Full	97.10	103.46	/	Pass
DFT-s-OFDM 64 QAM	3500.01	Outer Full	97.26	103.54	/	Pass
	3500.01	Outer Full	96.69	103.25	/	Pass
	3499.98	Outer Full	97.11	103.66	/	Pass
DFT-s-OFDM 256 QAM	3500.01	Outer Full	96.81	103.61	/	Pass
	3500.01	Outer Full	97.21	103.28	/	Pass
	3499.98	Outer Full	97.28	103.43	/	Pass
CP-OFDM QPSK	3500.01	Outer Full	97.68	104.48	/	Pass
	3500.01	Outer Full	97.95	103.76	/	Pass
	3499.98	Outer Full	98.06	104.23	/	Pass
CP-OFDM 16 QAM	3500.01	Outer Full	98.13	104.39	/	Pass
	3500.01	Outer Full	98.07	104.16	/	Pass
	3499.98	Outer Full	98.05	104.58	/	Pass
CP-OFDM 64 QAM	3500.01	Outer Full	98.33	104.54	/	Pass
	3500.01	Outer Full	98.09	104.60	/	Pass
	3499.98	Outer Full	97.67	103.84	/	Pass
CP-OFDM 256 QAM	3500.01	Outer Full	97.97	104.49	/	Pass
	3500.01	Outer Full	98.20	104.38	/	Pass
	3499.98	Outer Full	98.16	104.62	/	Pass



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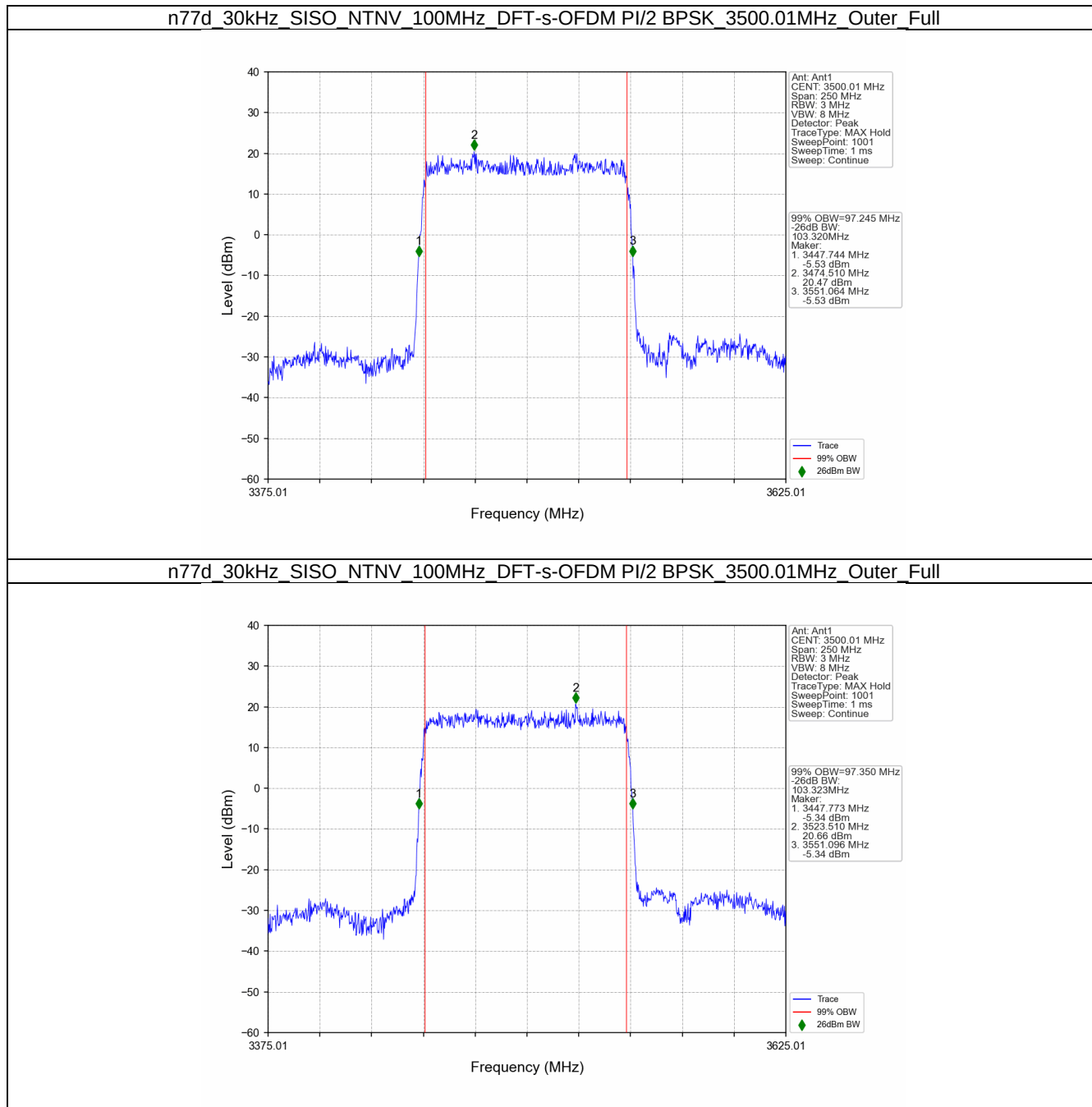
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4.19.2 Test Graph



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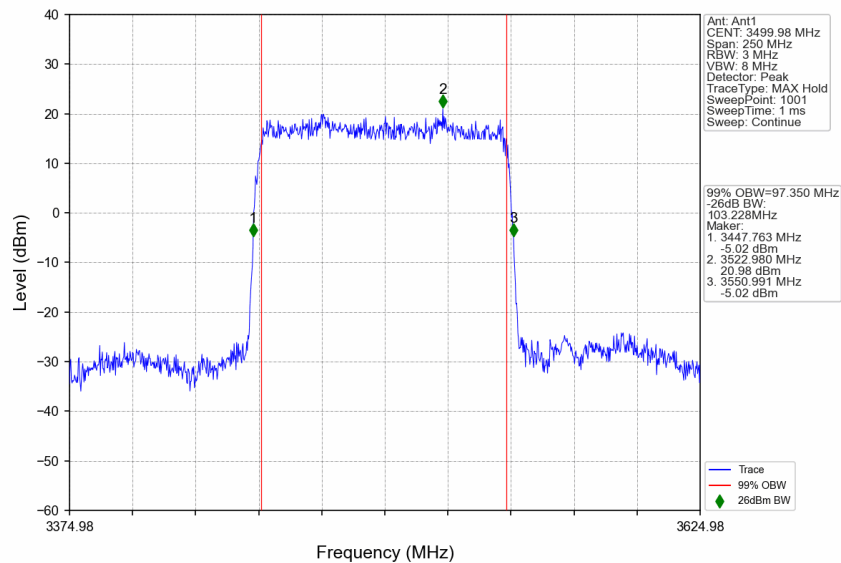
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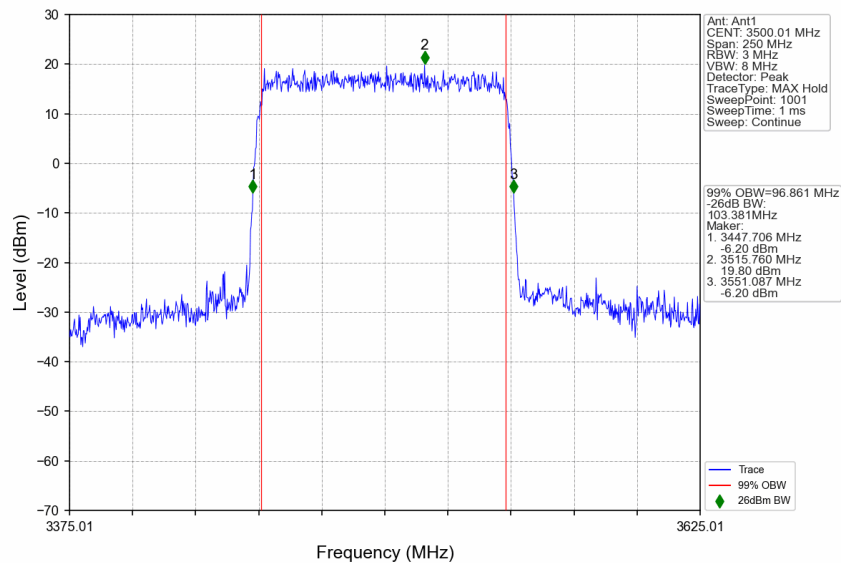
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n77d_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM PI/2 BPSK_3499.98MHz_Outer_Full



n77d_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM QPSK_3500.01MHz_Outer_Full



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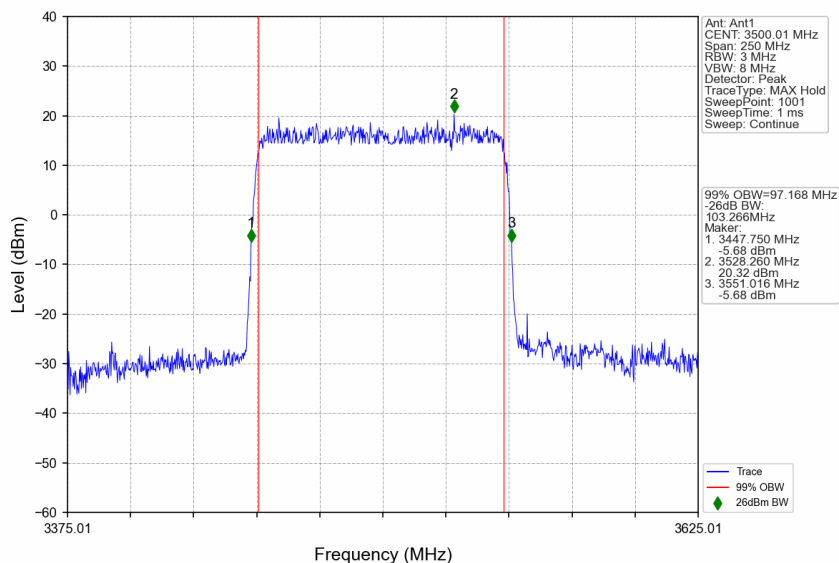
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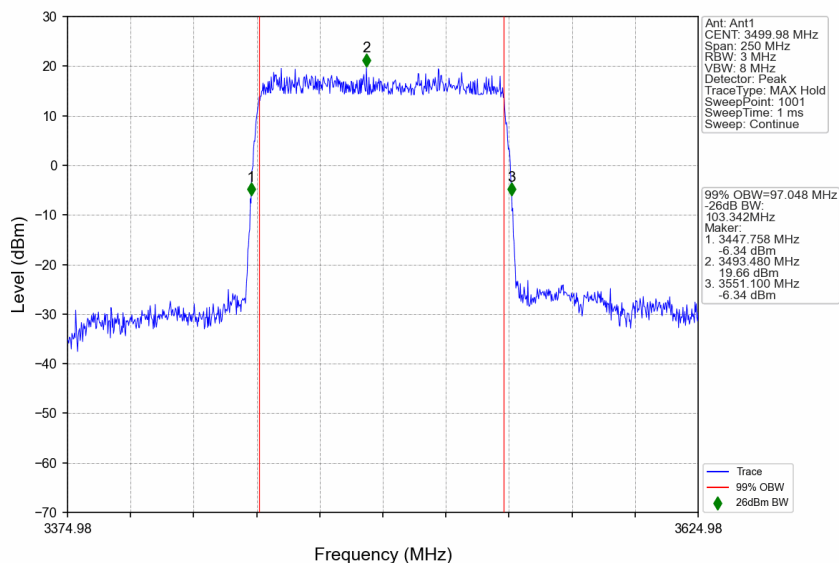
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n77d_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM_QPSK_3499.98MHz_Outer_Full



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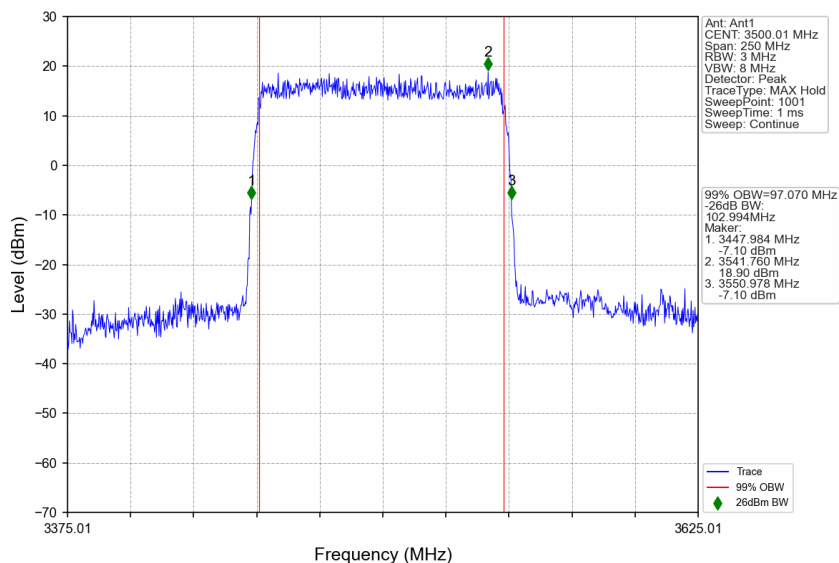
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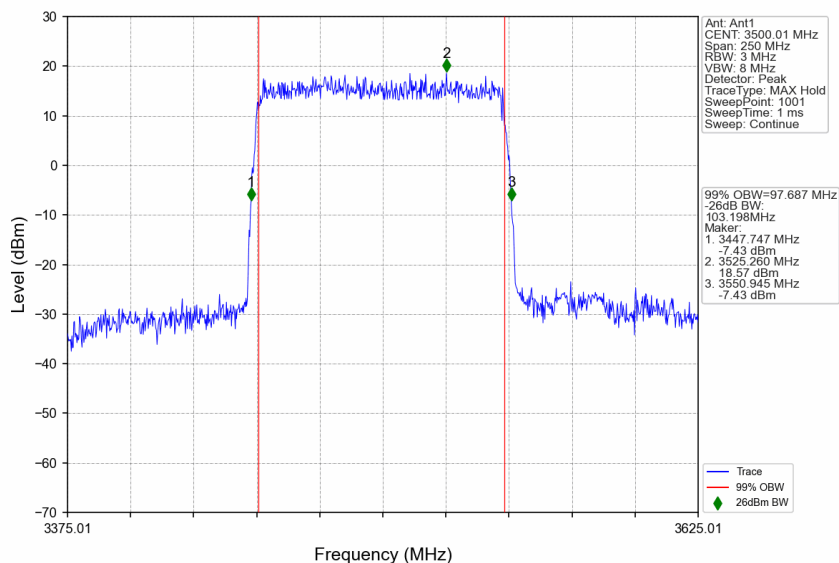
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n77d_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM_16_QAM_3500.01MHz_Outer_Full



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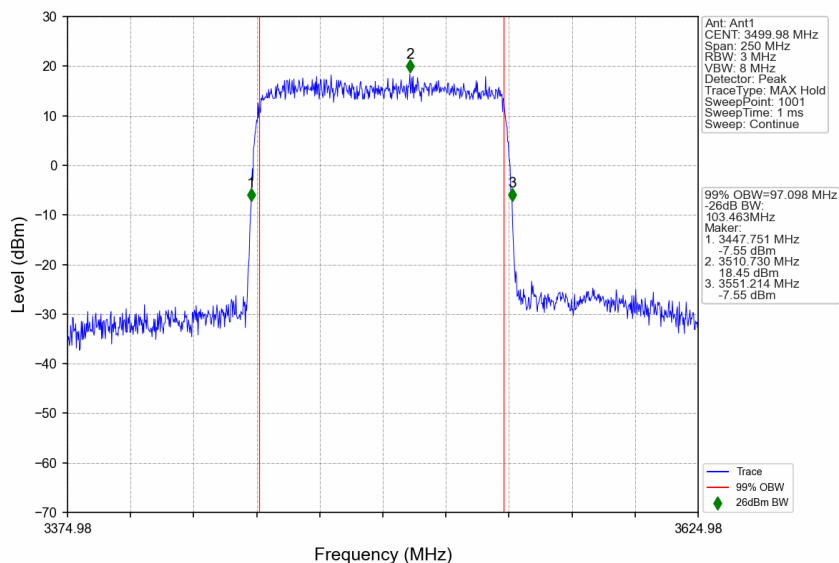
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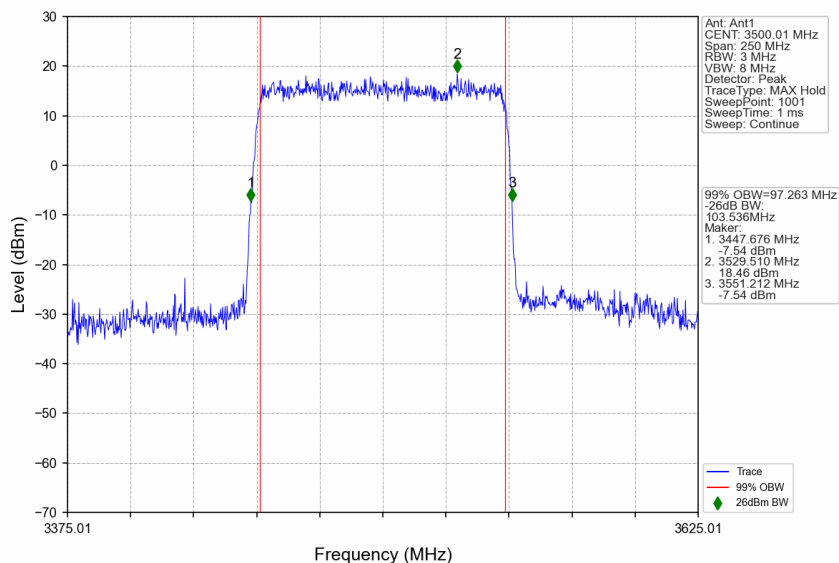
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n77d_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM 16 QAM_3499.98MHz_Outer_Full



n77d_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM 64 QAM_3500.01MHz_Outer_Full



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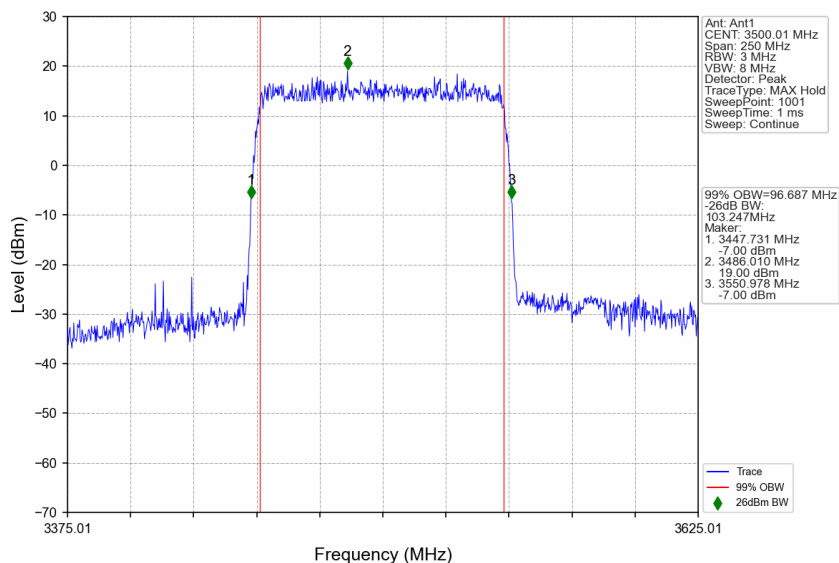
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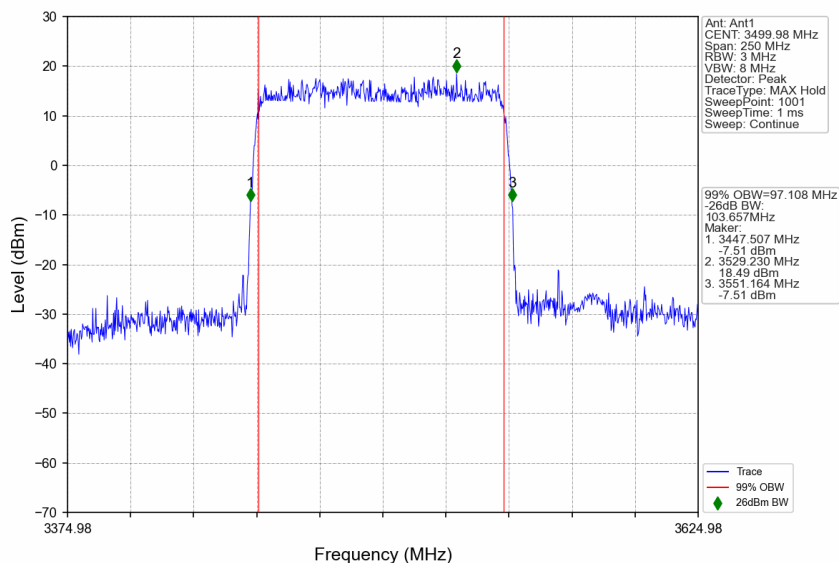
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n77d_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM_64_QAM_3499.98MHz_Outer_Full



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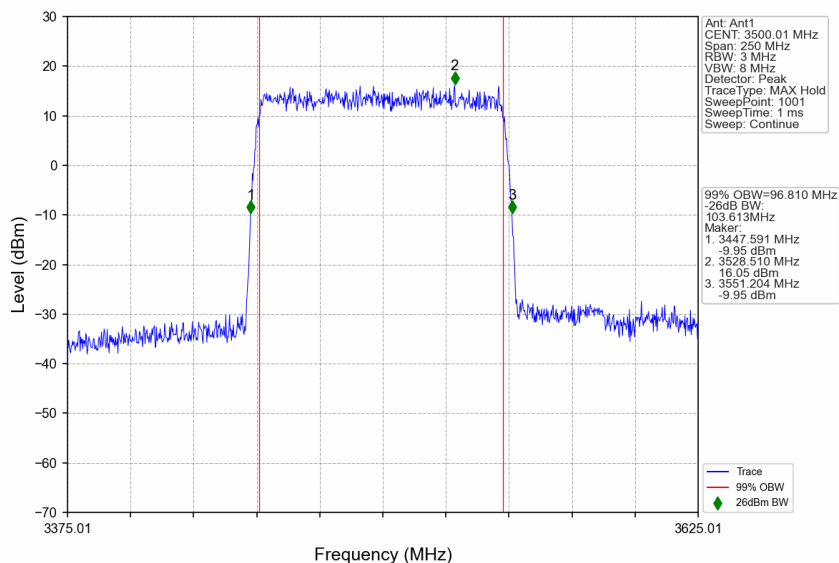


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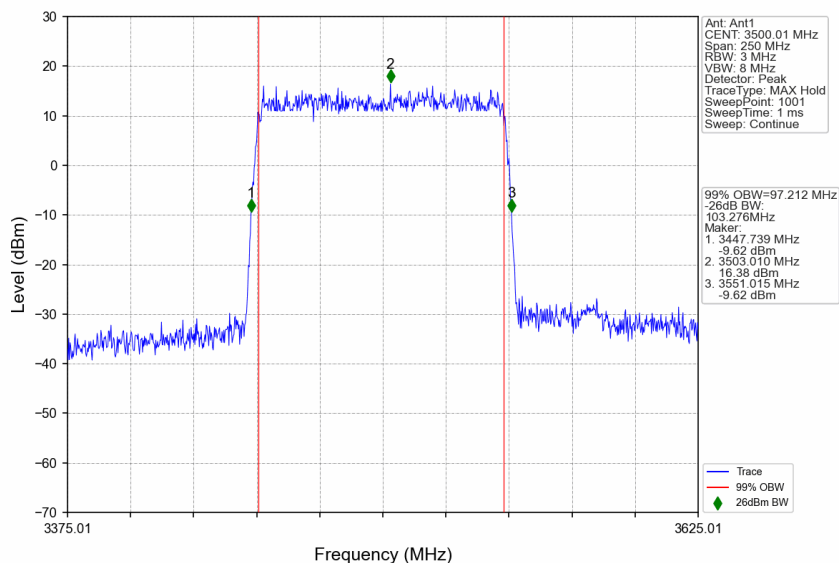
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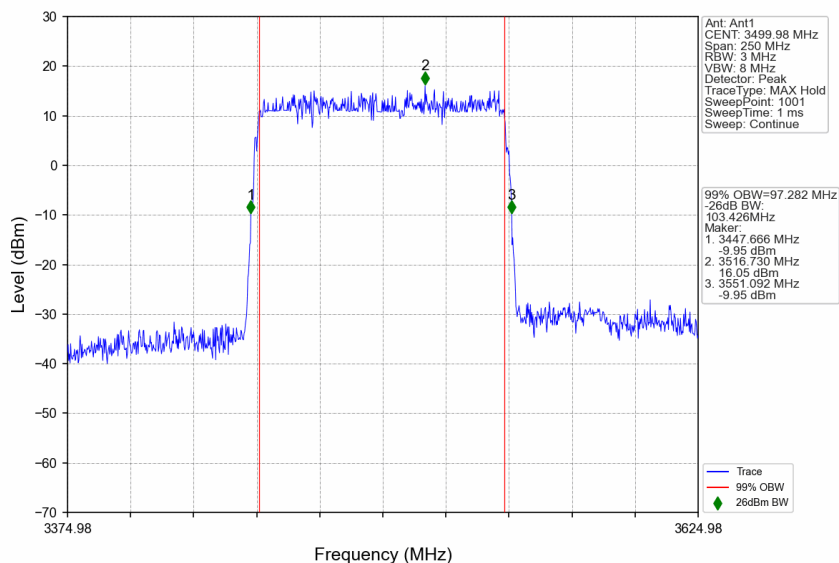
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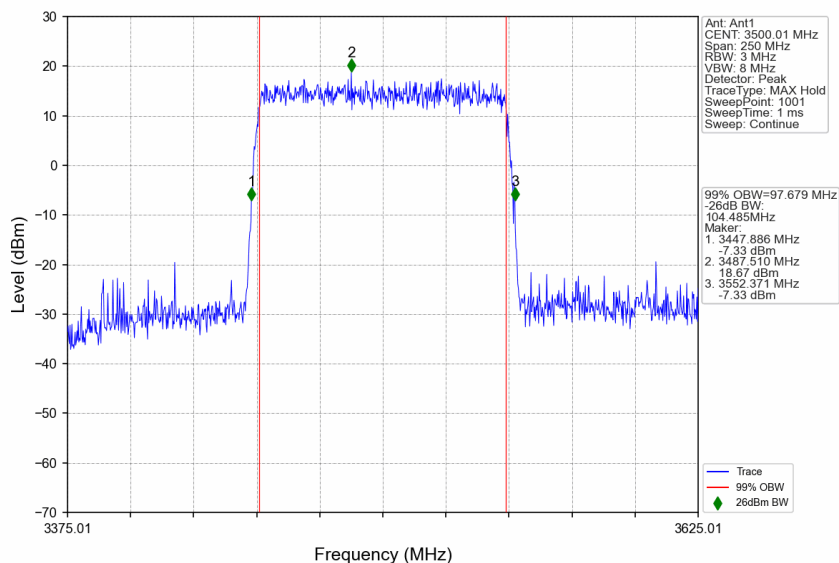
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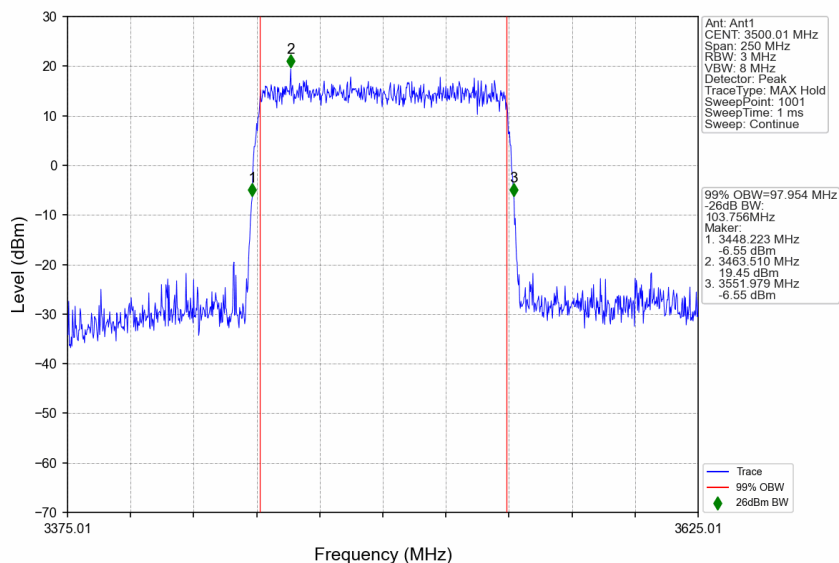
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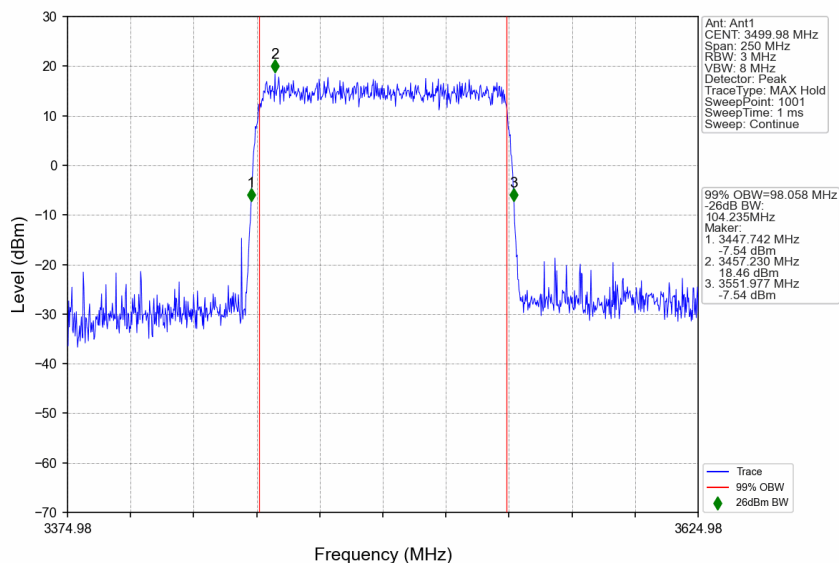
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n77d_30kHz_SISO_NTNV_100MHz_CP-OFDM QPSK_3499.98MHz_Outer_Full



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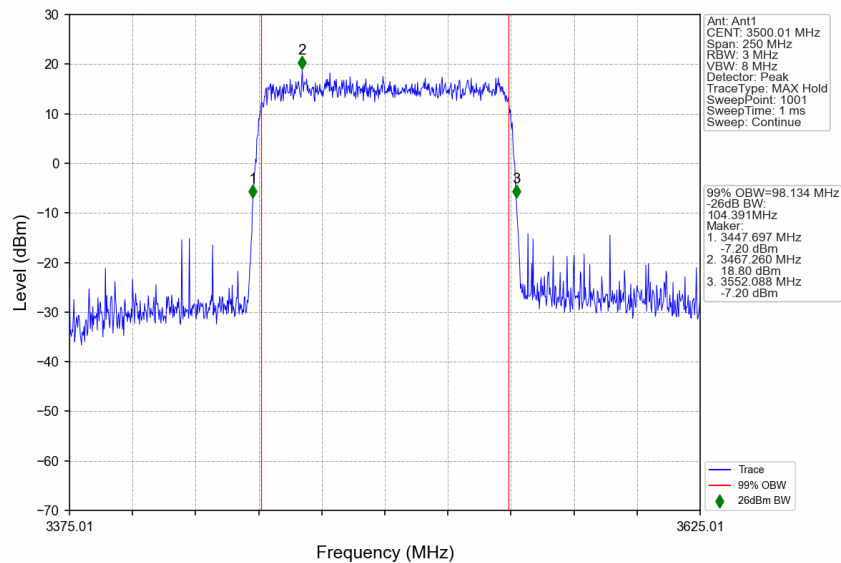
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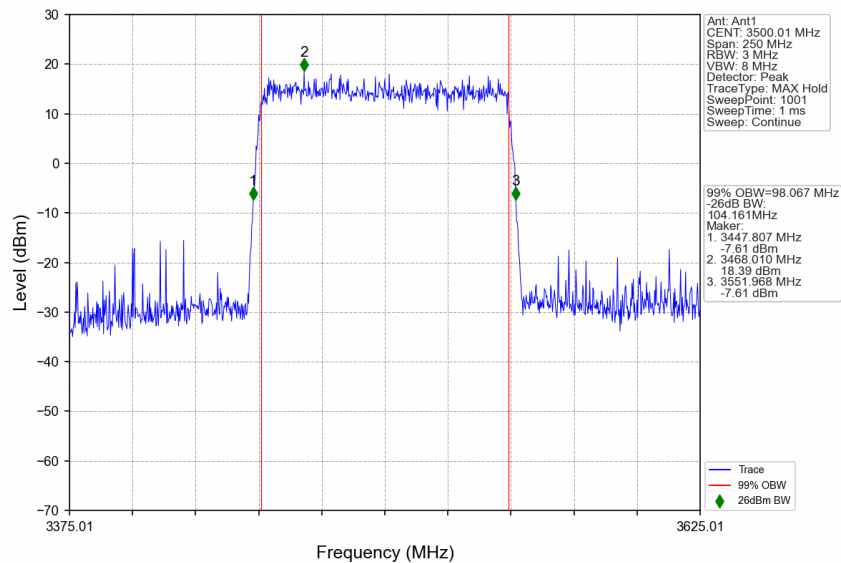
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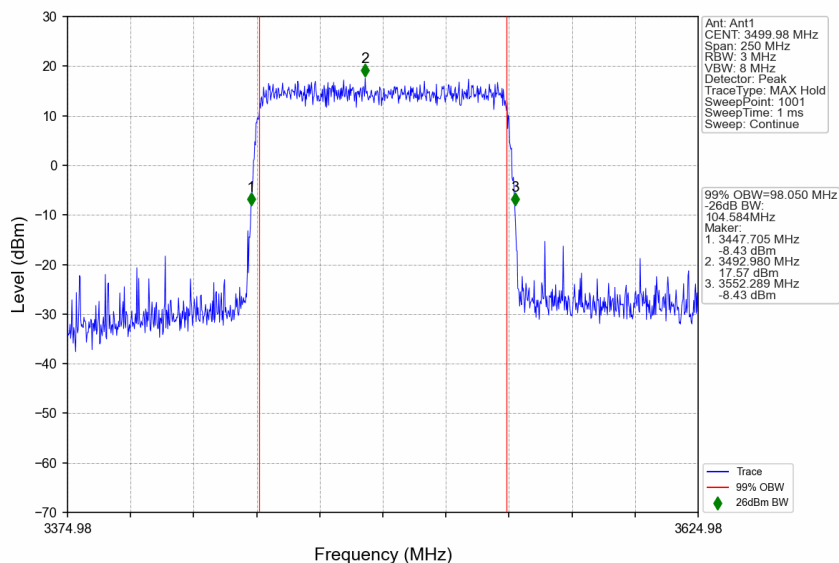
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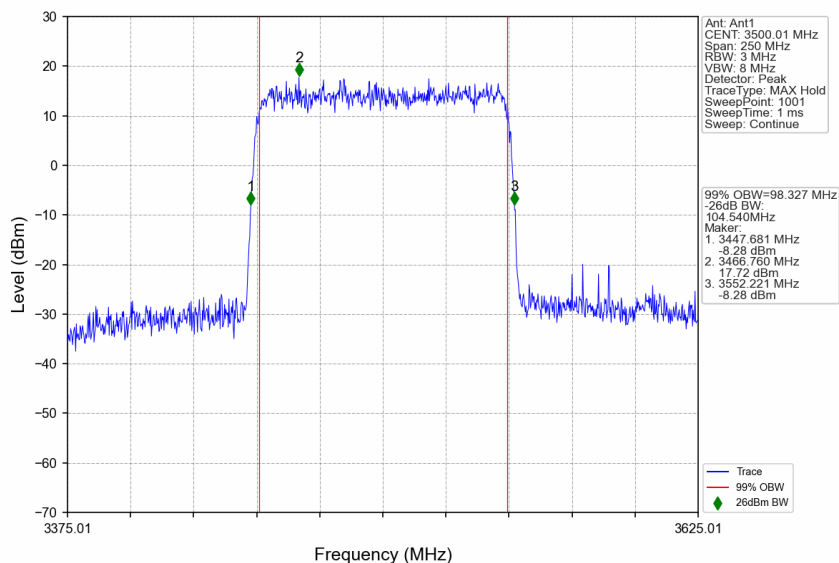
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n77d_30kHz_SISO_NTNV_100MHz_CP-OFDM 16 QAM_3499.98MHz_Outer_Full



n77d_30kHz_SISO_NTNV_100MHz_CP-OFDM 64 QAM_3500.01MHz_Outer_Full



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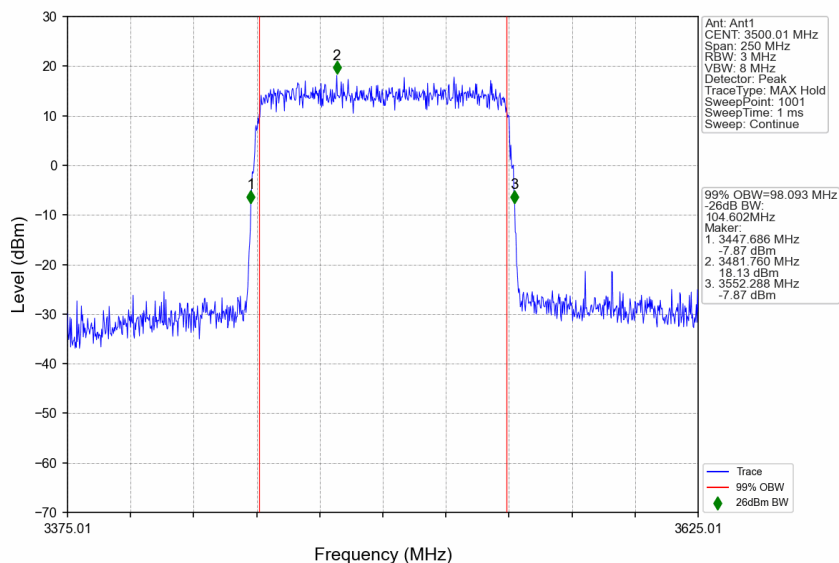
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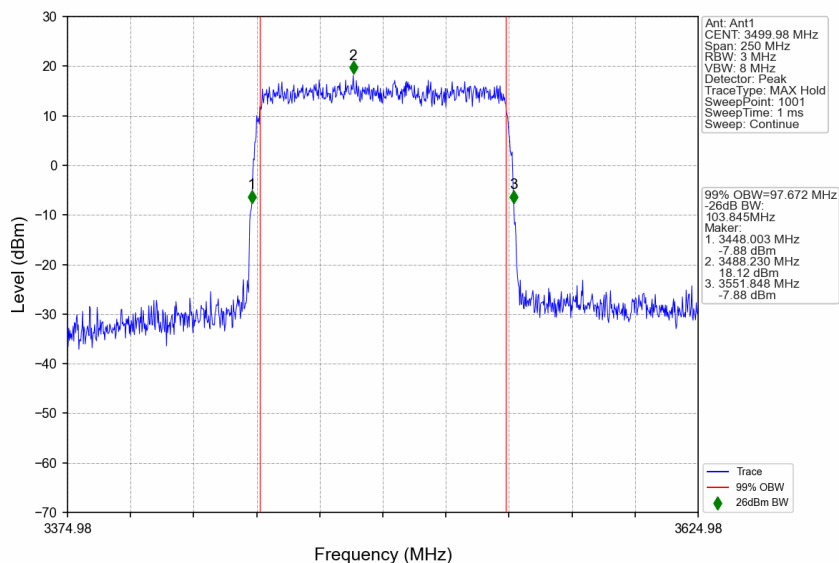
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n77d_30kHz_SISO_NTNV_100MHz_CP-OFDM 64 QAM_3499.98MHz_Outer_Full



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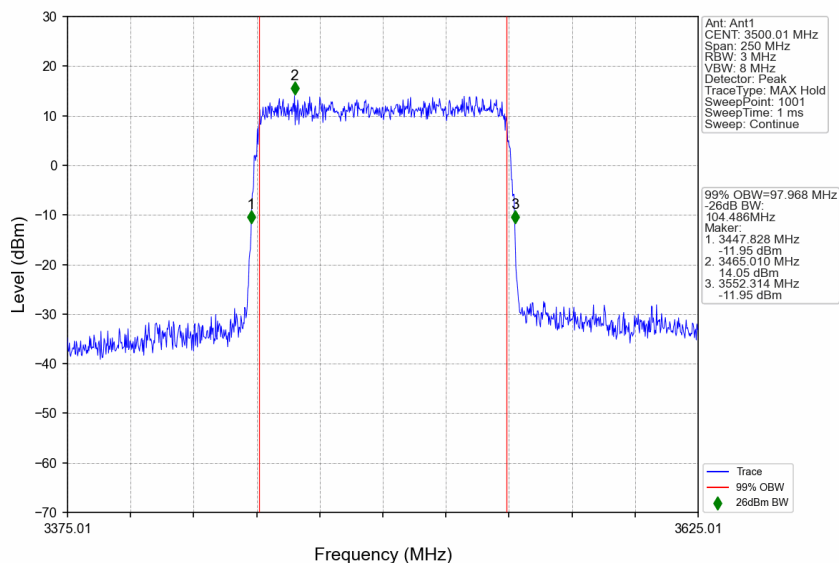
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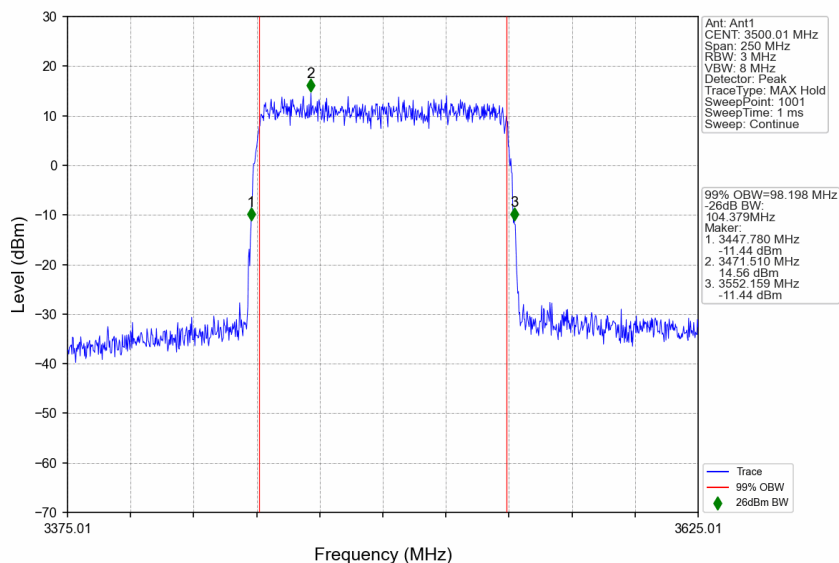
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n77d_30kHz_SISO_NTNV_100MHz_CP-OFDM_256_QAM_3500.01MHz_Outer_Full



n77d_30kHz_SISO_NTNV_100MHz_CP-OFDM_256_QAM_3500.01MHz_Outer_Full



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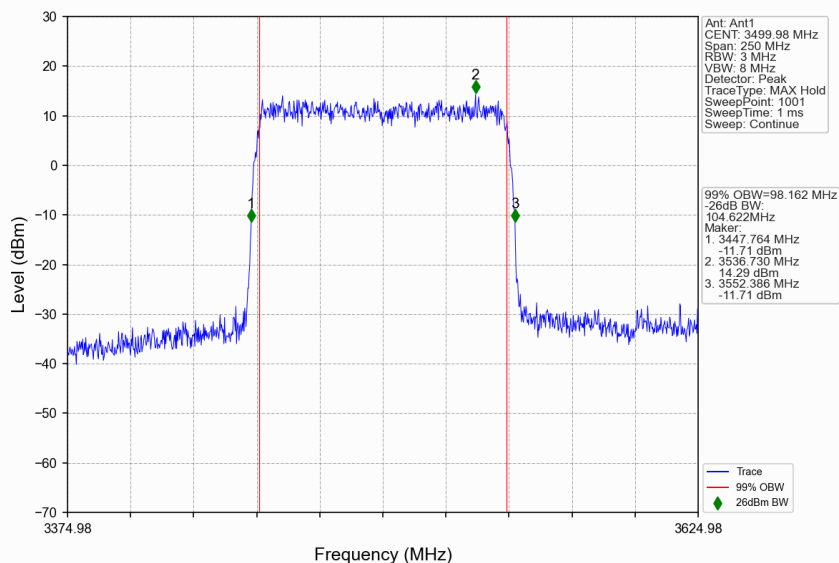
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n77d_30kHz_SISO_NTNV_100MHz_CP-OFDM_256_QAM_3499.98MHz_Outer_Full



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5. Peak-Average Ratio

5.1 15k_SISO_10MHz_NTNV

5.1.1 Test Result

5G NR n77d SCS=15kHz SISO 10MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant5	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3455.01	Outer_Full	8.43	/	/	<=13	Pass
	3499.995	Outer_Full	8.59	/	/	<=13	Pass
	3544.995	Outer_Full	8.49	/	/	<=13	Pass
DFT-s-OFDM QPSK	3455.01	Outer_Full	9.51	/	/	<=13	Pass
	3499.995	Outer_Full	9.44	/	/	<=13	Pass
	3544.995	Outer_Full	9.49	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3455.01	Outer_Full	10.31	/	/	<=13	Pass
	3499.995	Outer_Full	10.04	/	/	<=13	Pass
	3544.995	Outer_Full	10.21	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3455.01	Outer_Full	10.30	/	/	<=13	Pass
	3499.995	Outer_Full	10.21	/	/	<=13	Pass
	3544.995	Outer_Full	10.15	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3455.01	Outer_Full	10.63	/	/	<=13	Pass
	3499.995	Outer_Full	10.65	/	/	<=13	Pass
	3544.995	Outer_Full	10.55	/	/	<=13	Pass
CP-OFDM QPSK	3455.01	Outer_Full	12.25	/	/	<=13	Pass
	3499.995	Outer_Full	12.00	/	/	<=13	Pass
	3544.995	Outer_Full	12.24	/	/	<=13	Pass
CP-OFDM 16 QAM	3455.01	Outer_Full	12.16	/	/	<=13	Pass
	3499.995	Outer_Full	12.18	/	/	<=13	Pass
	3544.995	Outer_Full	12.16	/	/	<=13	Pass
CP-OFDM 64 QAM	3455.01	Outer_Full	12.26	/	/	<=13	Pass
	3499.995	Outer_Full	12.49	/	/	<=13	Pass
	3544.995	Outer_Full	12.33	/	/	<=13	Pass
CP-OFDM 256 QAM	3455.01	Outer_Full	11.83	/	/	<=13	Pass
	3499.995	Outer_Full	11.75	/	/	<=13	Pass
	3544.995	Outer_Full	11.88	/	/	<=13	Pass



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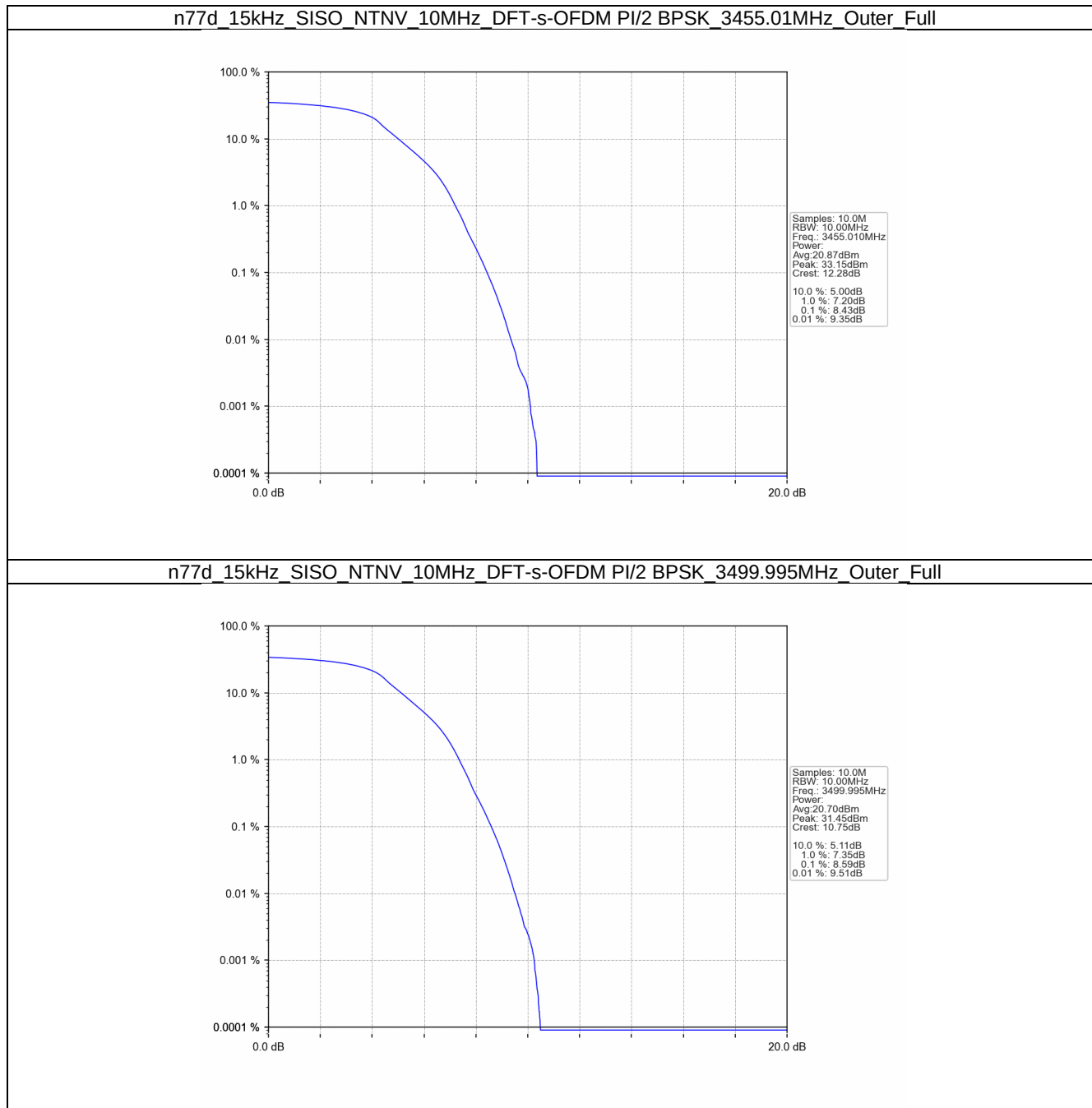
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5.1.2 Test Graph



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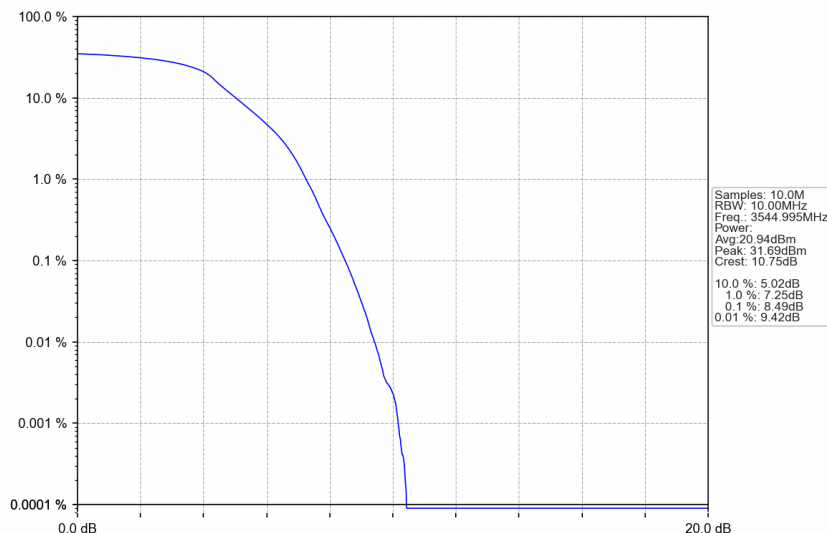
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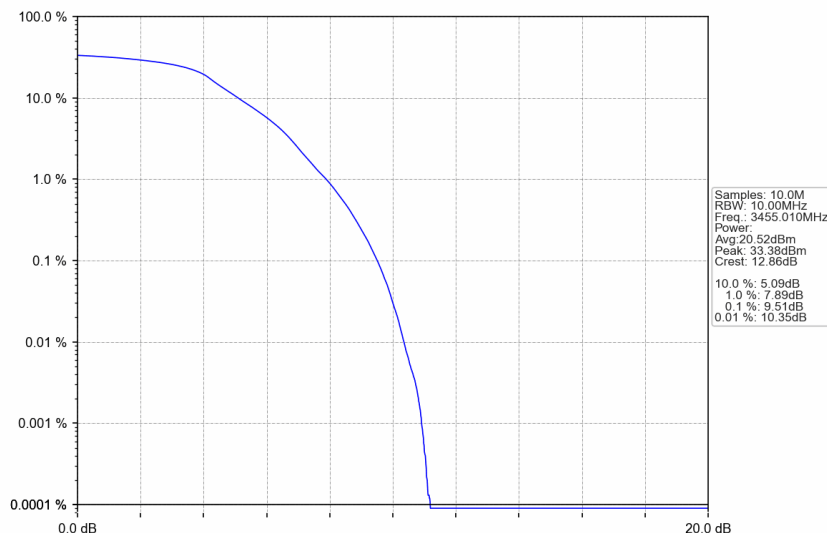
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n77d_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_3544.995MHz_Outer_Full



n77d_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_3455.01MHz_Outer_Full



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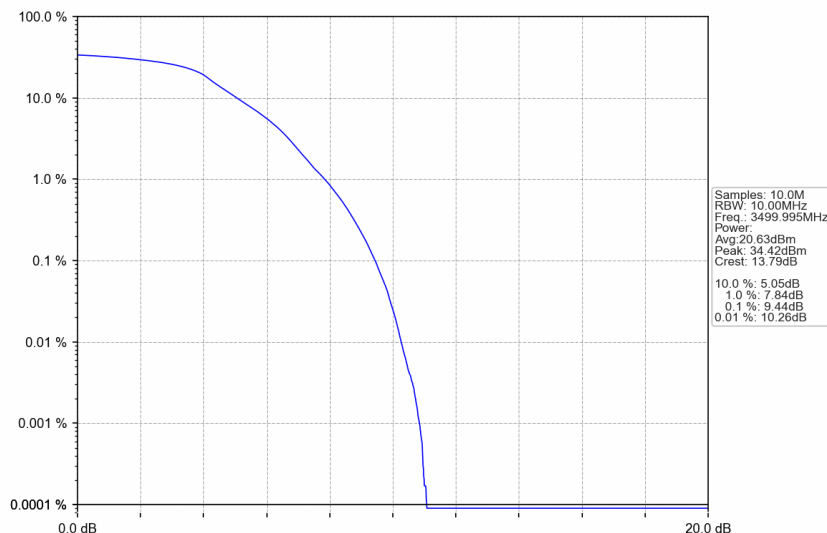
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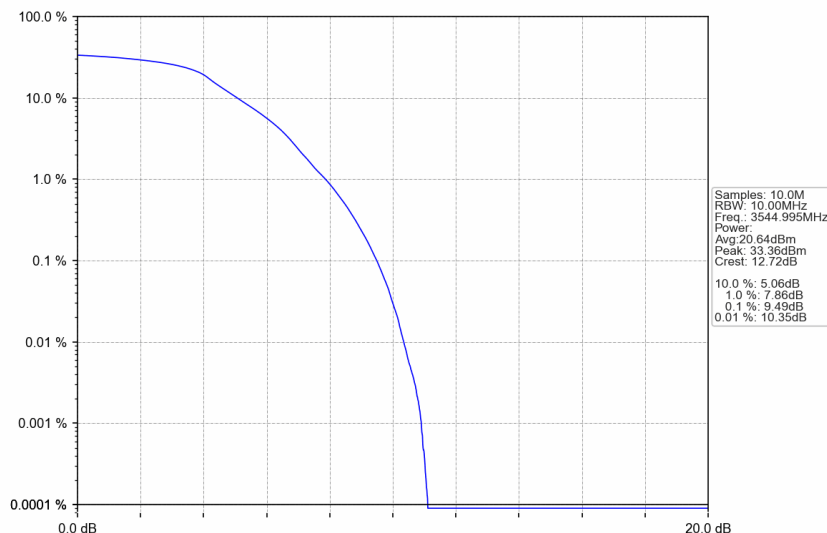
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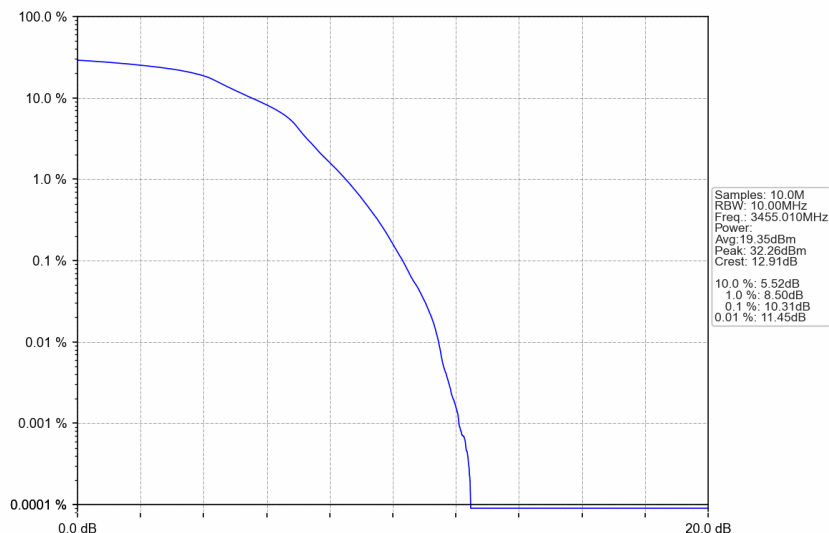
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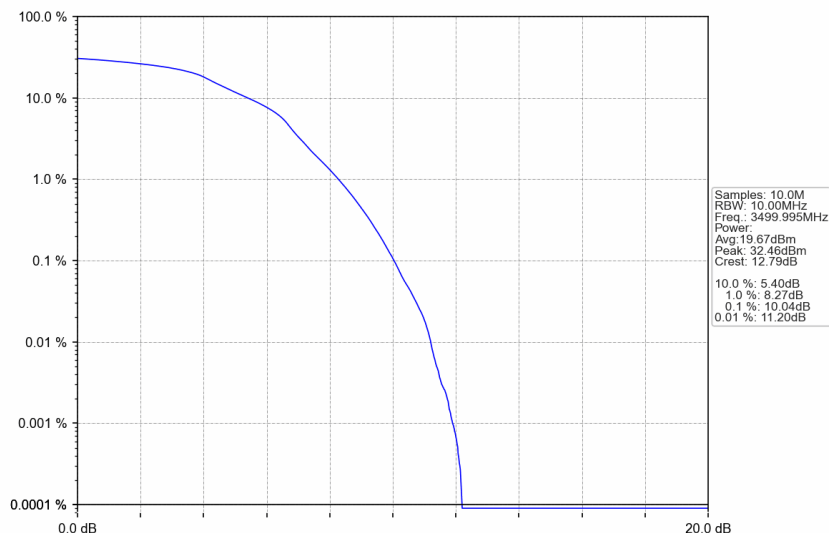
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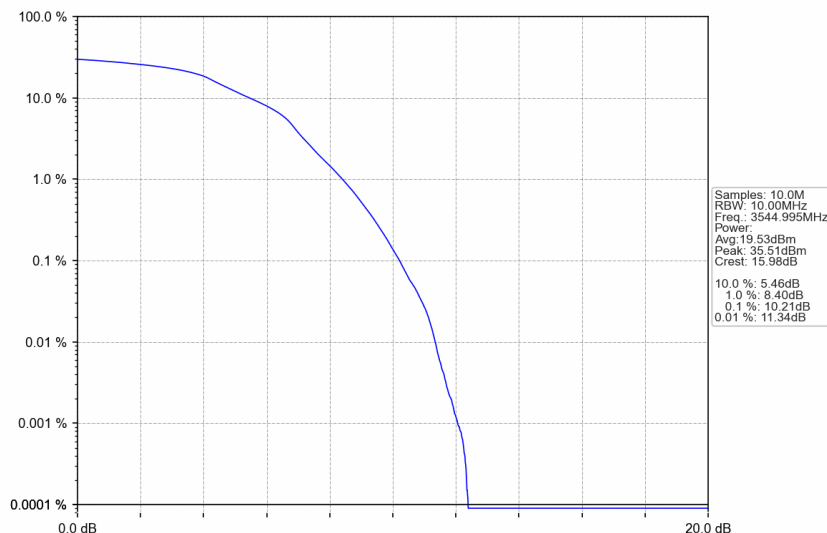
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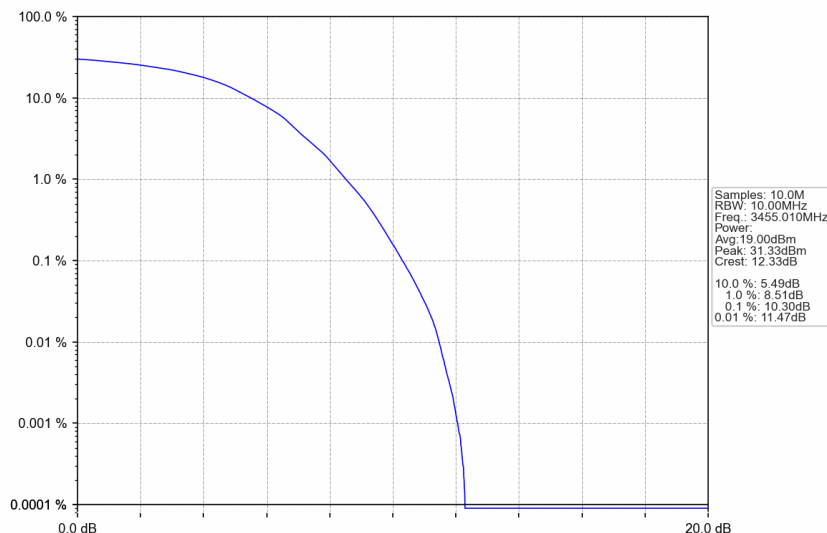
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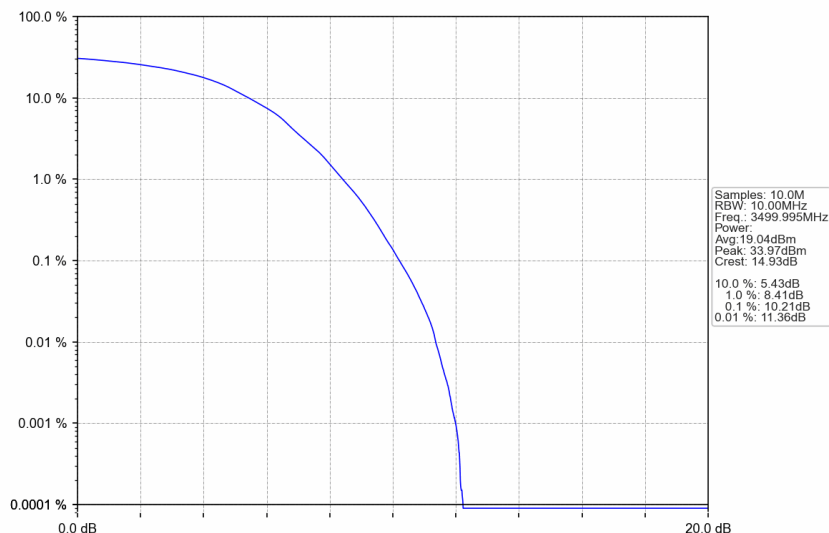
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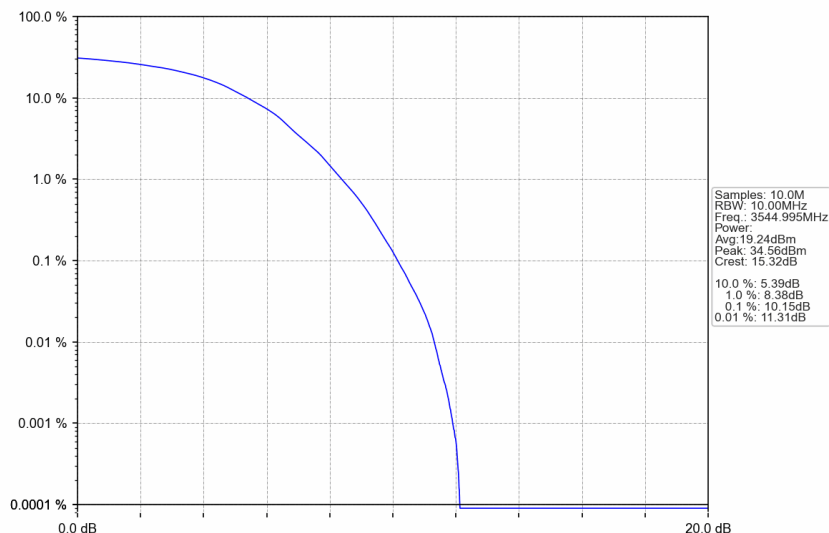
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n77d_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 64 QAM_3544.995MHz_Outer_Full



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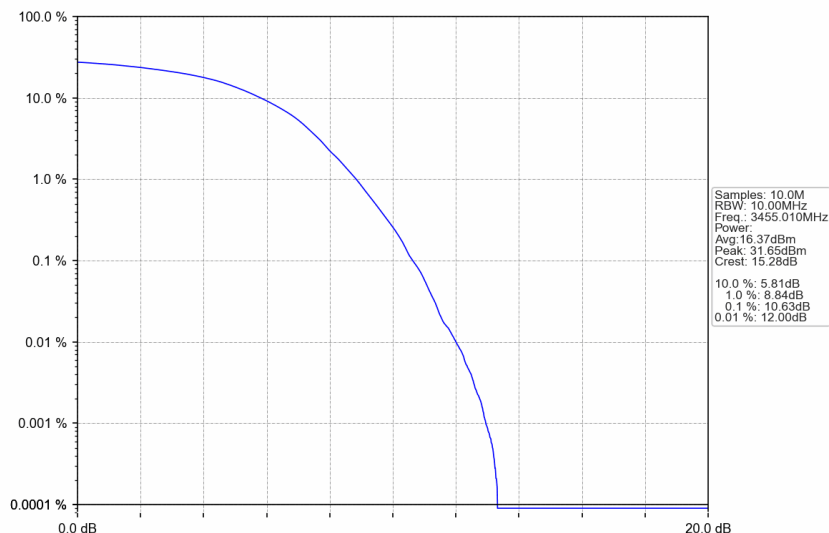
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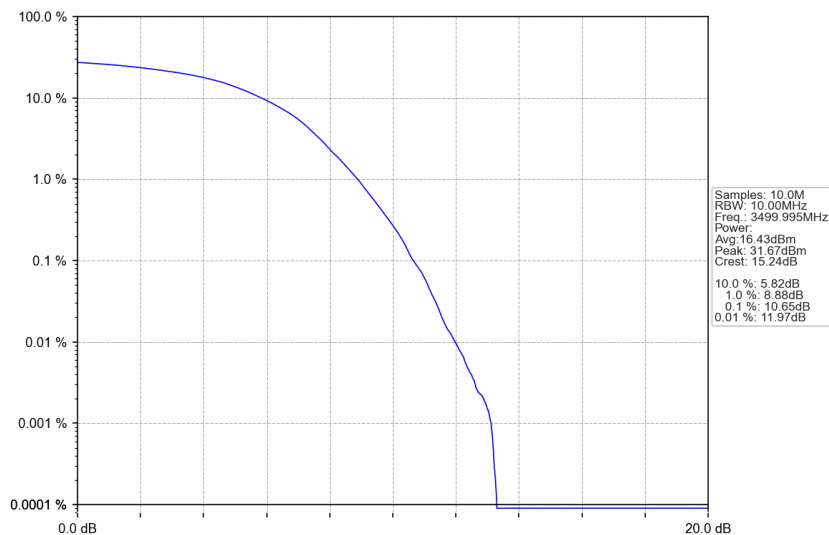
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n77d_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_256_QAM_3455.01MHz_Outer_Full



n77d_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_256_QAM_3499.995MHz_Outer_Full



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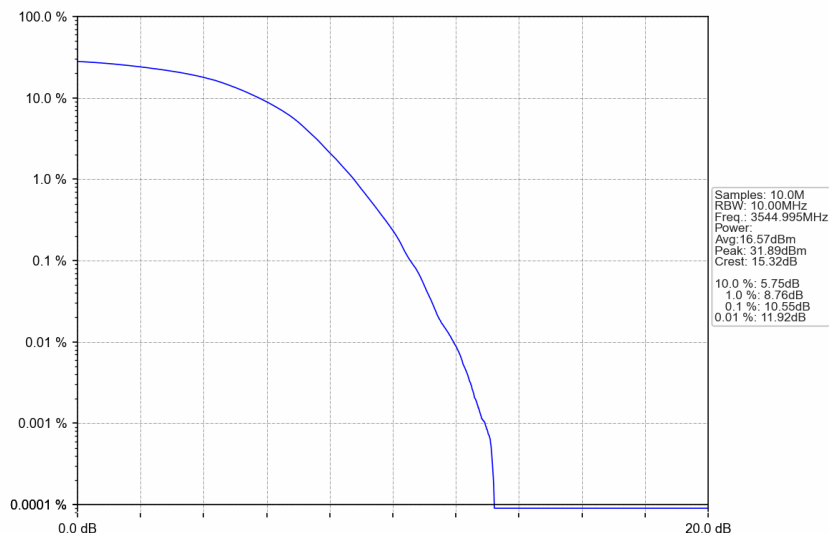
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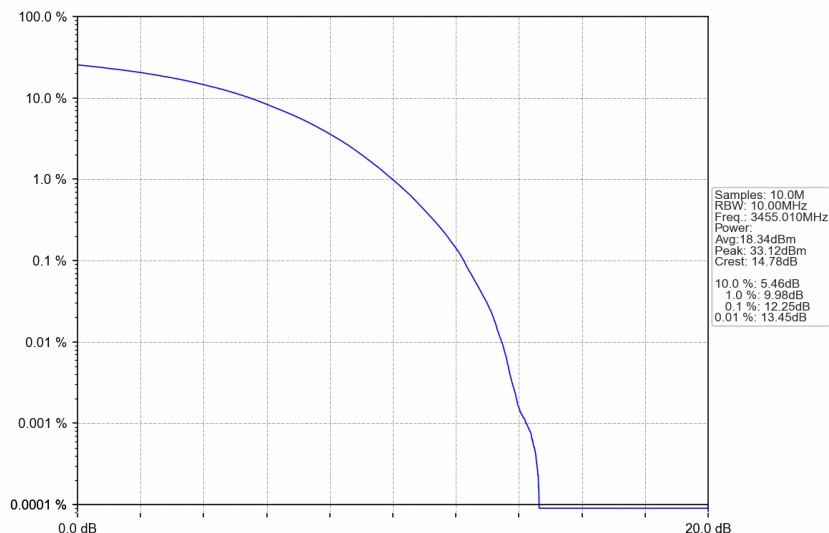
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n77d_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 256 QAM_3544.995MHz_Outer_Full



n77d_15kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_3455.01MHz_Outer_Full



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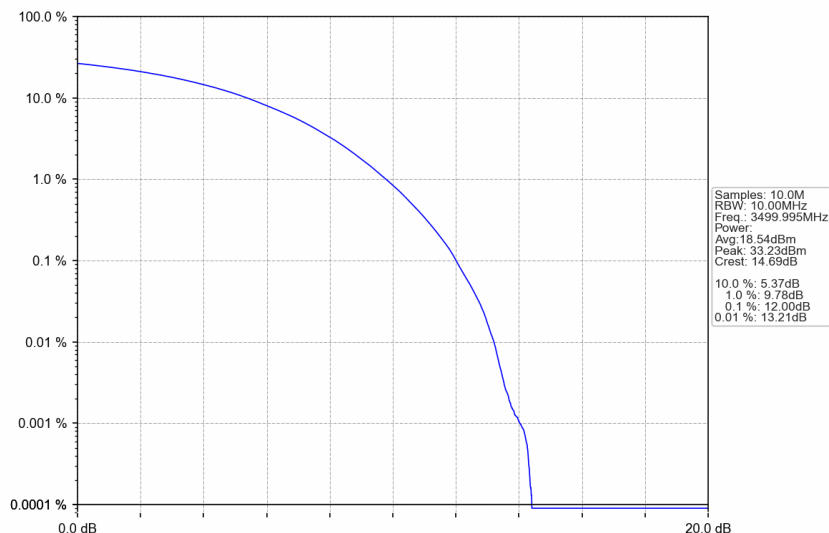
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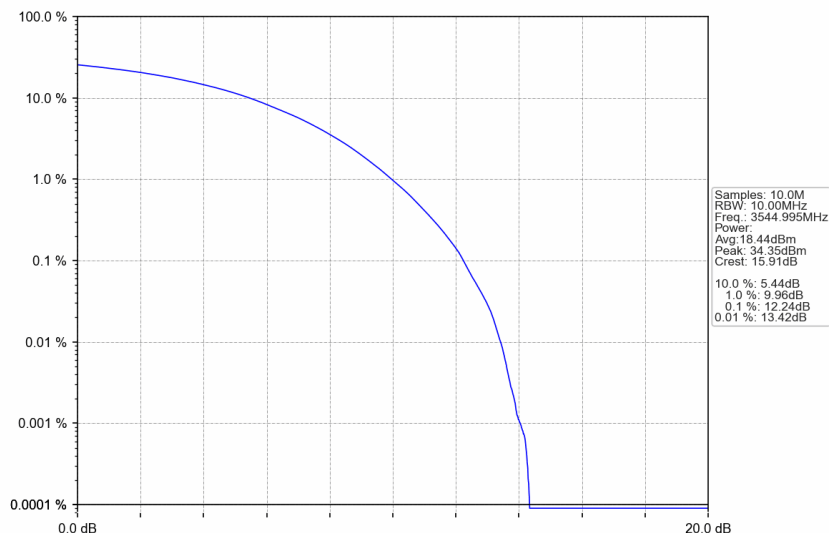
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n77d_15kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_3499.995MHz_Outer_Full



n77d_15kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_3544.995MHz_Outer_Full



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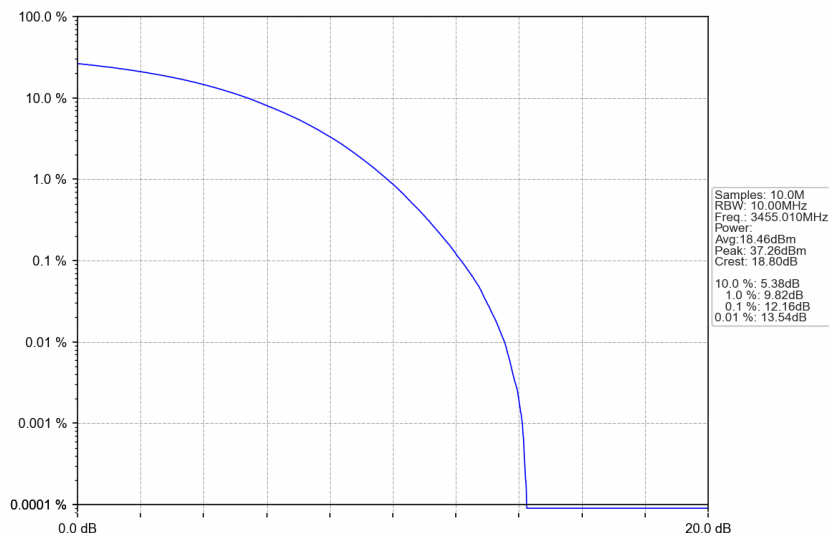
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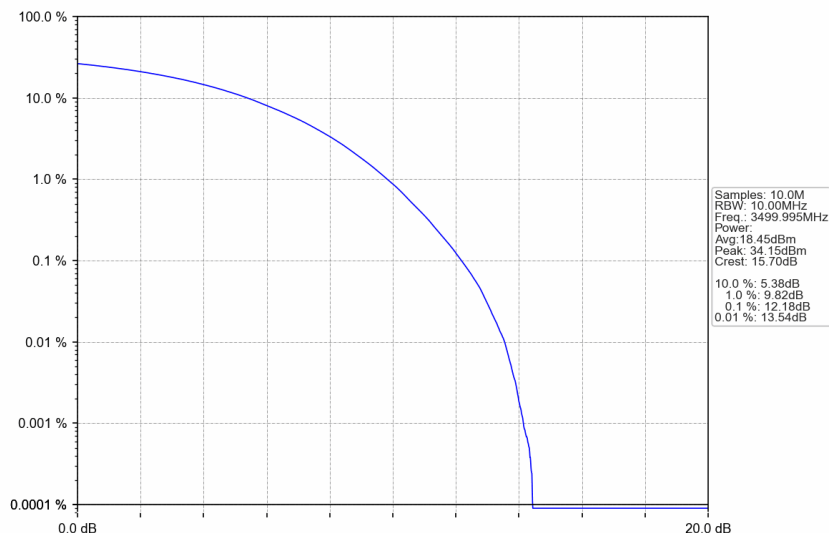
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n77d_15kHz_SISO_NTNV_10MHz_CP-OFDM_16_QAM_3455.01MHz_Outer_Full



n77d_15kHz_SISO_NTNV_10MHz_CP-OFDM_16_QAM_3499.995MHz_Outer_Full



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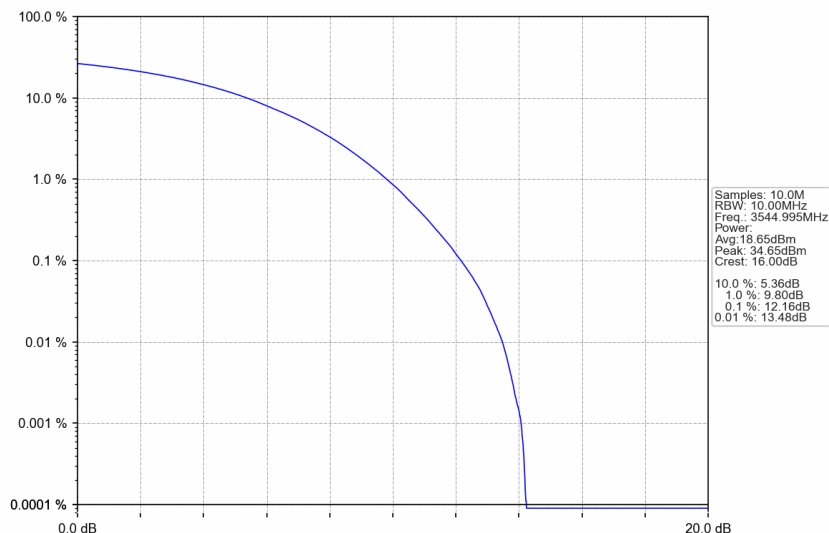
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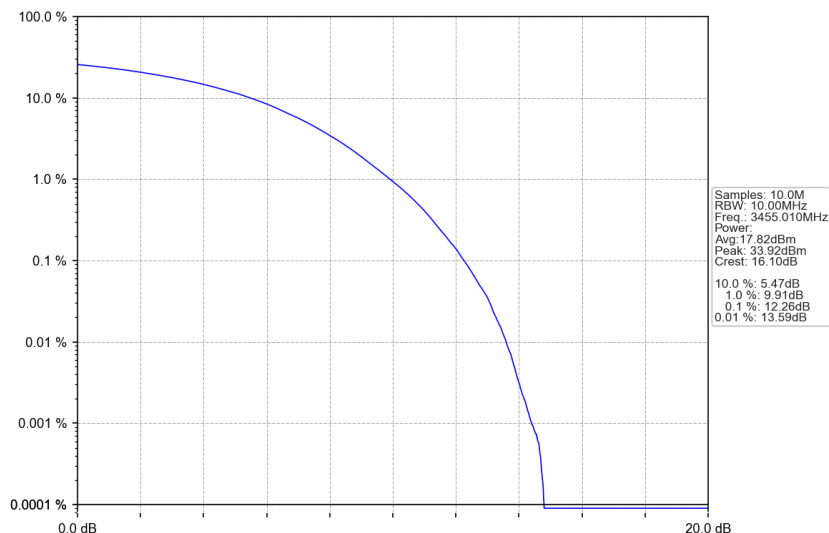
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n77d_15kHz_SISO_NTNV_10MHz_CP-OFDM 16 QAM_3544.995MHz_Outer_Full



n77d_15kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_3455.01MHz_Outer_Full



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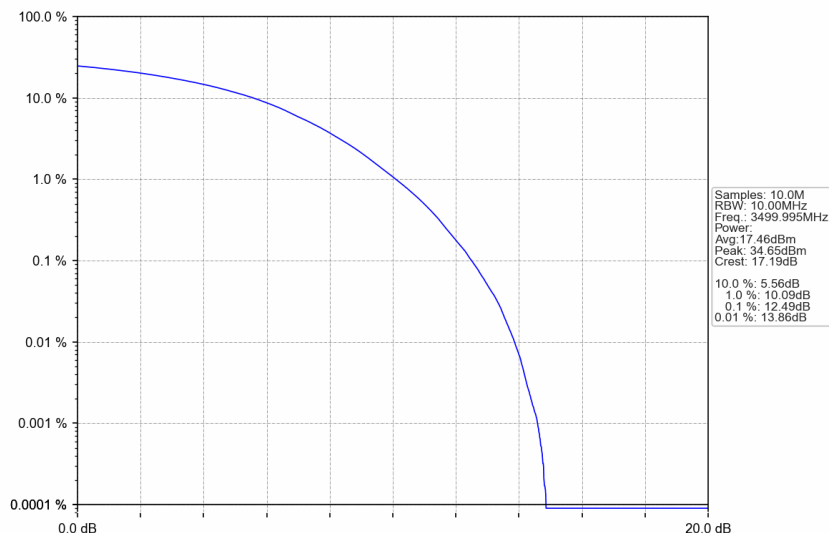
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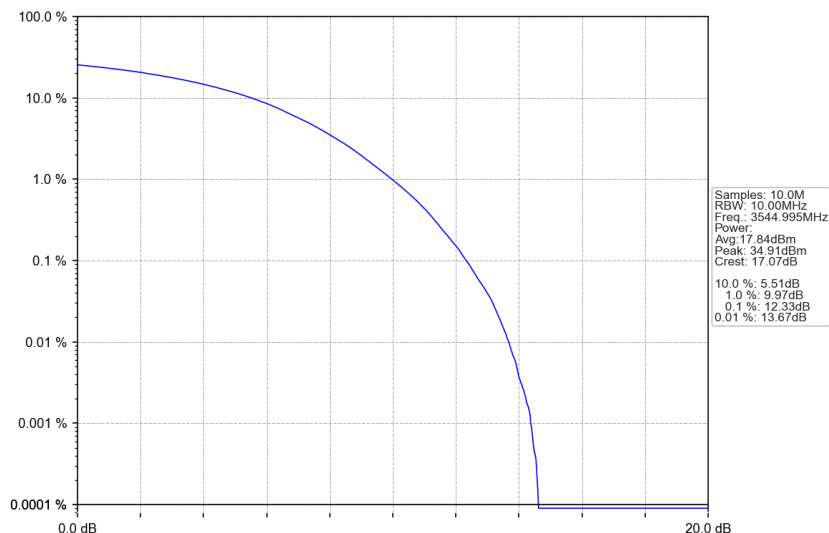
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n77d_15kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_3499.995MHz_Outer_Full



n77d_15kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_3544.995MHz_Outer_Full



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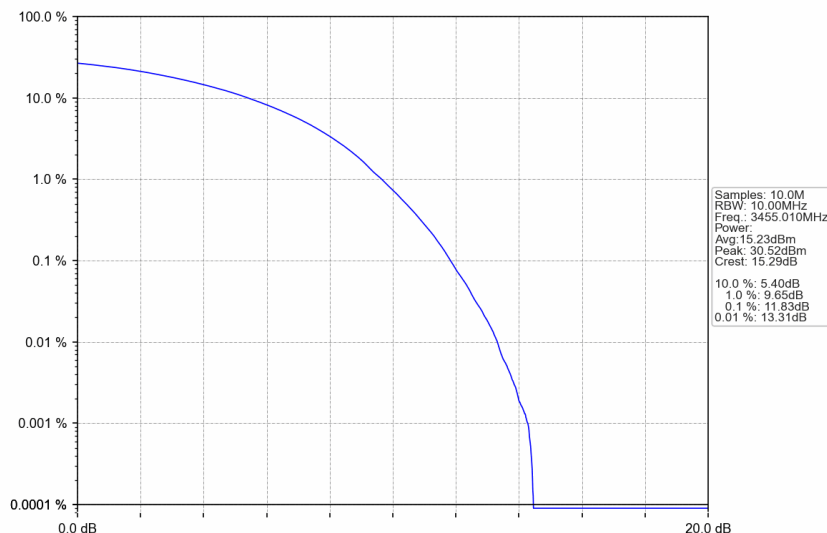
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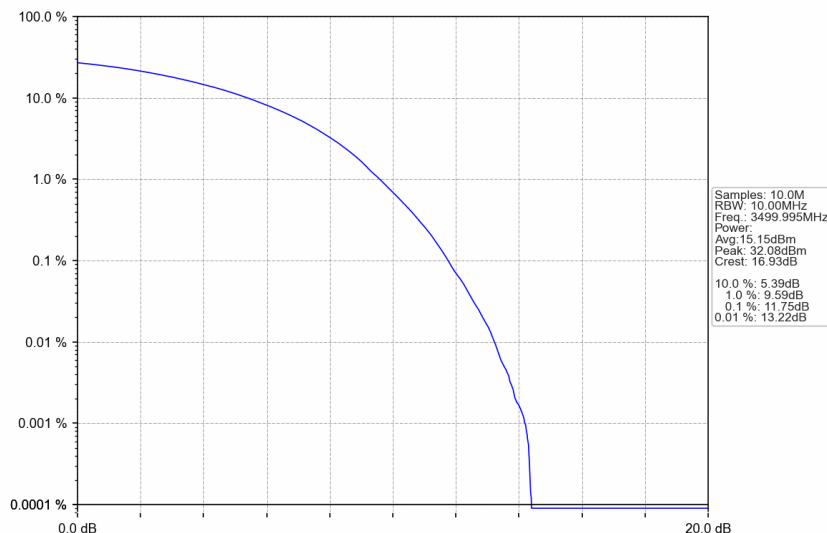
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n77d_15kHz_SISO_NTNV_10MHz_CP-OFDM_256_QAM_3455.01MHz_Outer_Full



n77d_15kHz_SISO_NTNV_10MHz_CP-OFDM_256_QAM_3499.995MHz_Outer_Full



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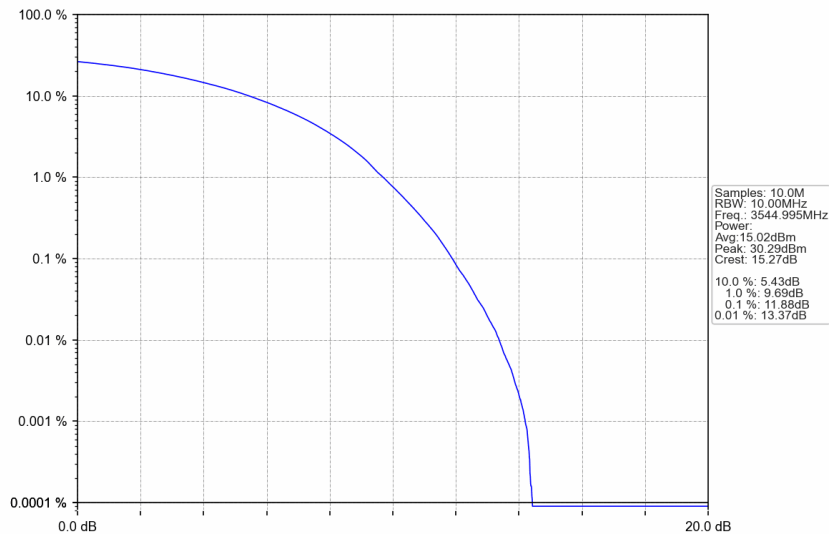
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5.2 15k_SISO_15MHz_NTNV

5.2.1 Test Result

5G NR n77d SCS=15kHz SISO 15MHz NTNv							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant5	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3457.5	Outer_Full	8.67	/	/	<=13	Pass
	3499.995	Outer_Full	8.56	/	/	<=13	Pass
	3542.49	Outer_Full	8.62	/	/	<=13	Pass
DFT-s-OFDM QPSK	3457.5	Outer_Full	9.50	/	/	<=13	Pass
	3499.995	Outer_Full	9.52	/	/	<=13	Pass
	3542.49	Outer_Full	9.46	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3457.5	Outer_Full	10.69	/	/	<=13	Pass
	3499.995	Outer_Full	10.77	/	/	<=13	Pass
	3542.49	Outer_Full	10.76	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3457.5	Outer_Full	10.53	/	/	<=13	Pass
	3499.995	Outer_Full	10.10	/	/	<=13	Pass
	3542.49	Outer_Full	10.17	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3457.5	Outer_Full	10.62	/	/	<=13	Pass
	3499.995	Outer_Full	9.91	/	/	<=13	Pass
	3542.49	Outer_Full	10.64	/	/	<=13	Pass
CP-OFDM QPSK	3457.5	Outer_Full	12.14	/	/	<=13	Pass
	3499.995	Outer_Full	11.95	/	/	<=13	Pass
	3542.49	Outer_Full	12.22	/	/	<=13	Pass
CP-OFDM 16 QAM	3457.5	Outer_Full	12.42	/	/	<=13	Pass
	3499.995	Outer_Full	12.32	/	/	<=13	Pass
	3542.49	Outer_Full	12.06	/	/	<=13	Pass
CP-OFDM 64 QAM	3457.5	Outer_Full	12.02	/	/	<=13	Pass
	3499.995	Outer_Full	12.19	/	/	<=13	Pass
	3542.49	Outer_Full	12.02	/	/	<=13	Pass
CP-OFDM 256 QAM	3457.5	Outer_Full	12.12	/	/	<=13	Pass
	3499.995	Outer_Full	11.96	/	/	<=13	Pass
	3542.49	Outer_Full	11.76	/	/	<=13	Pass



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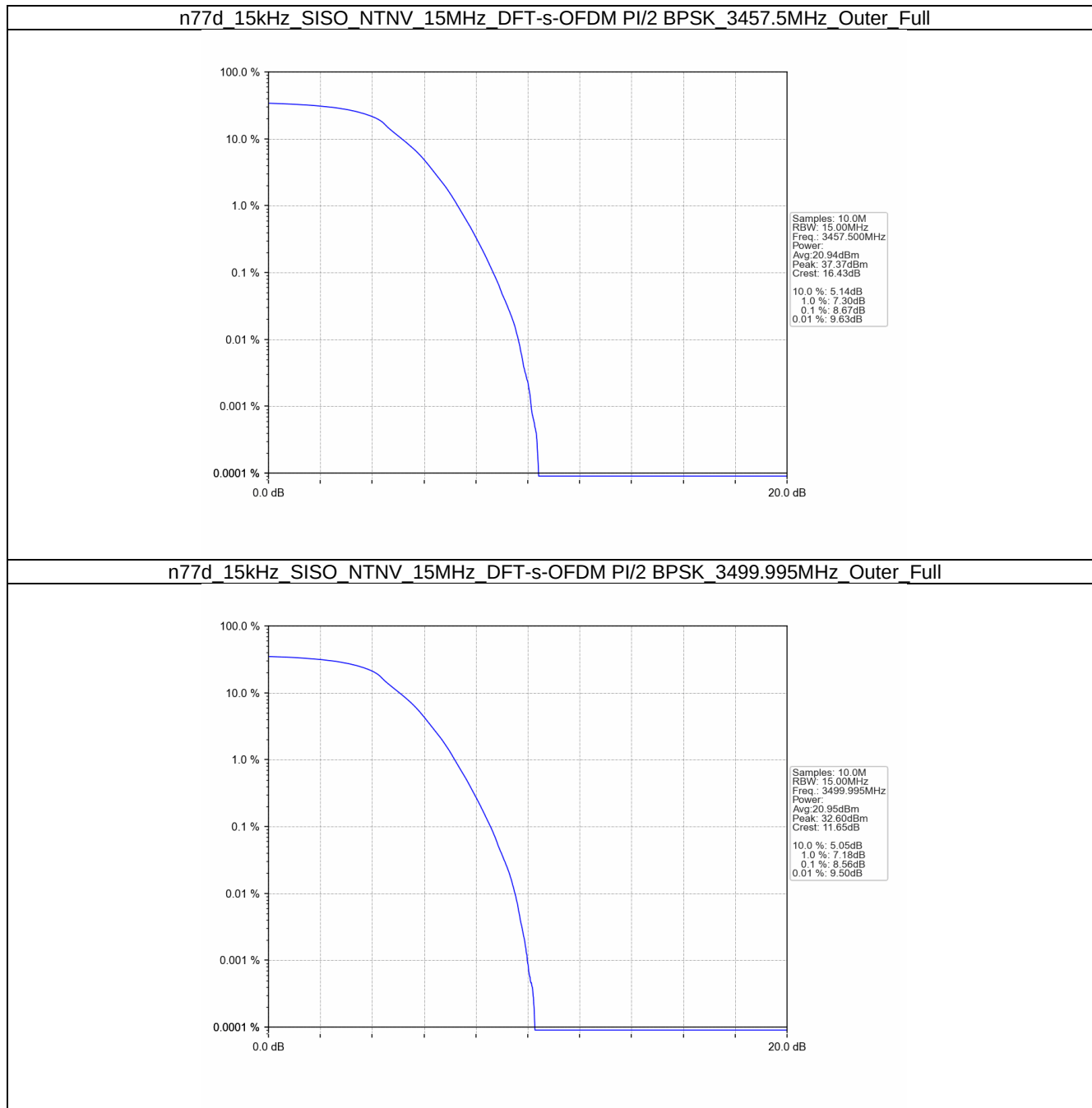
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5.2.2 Test Graph



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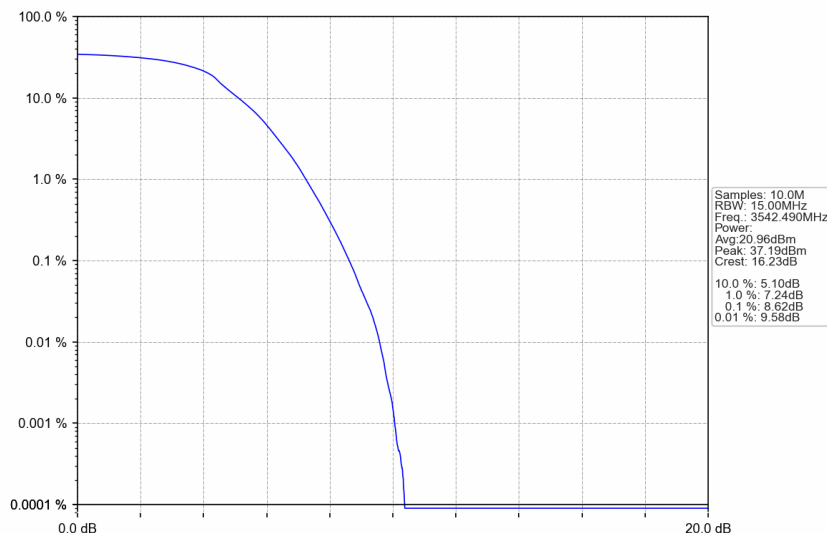
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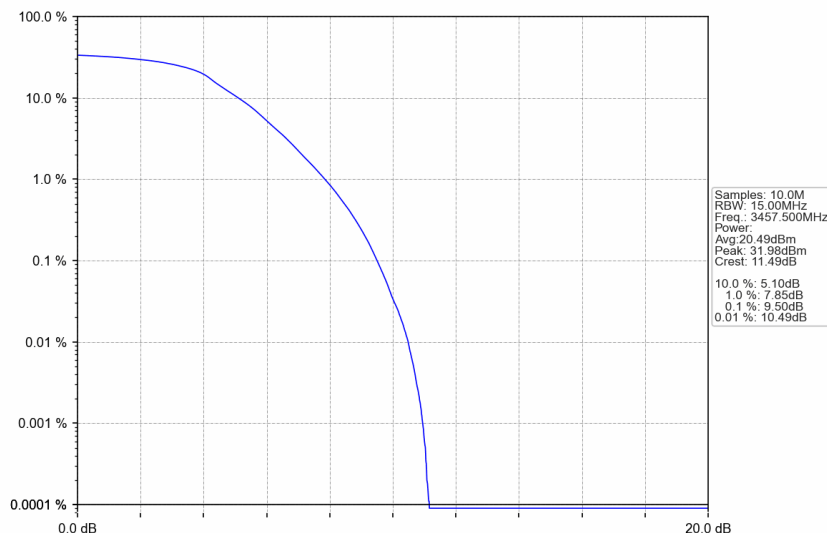
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n77d_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_3457.5MHz_Outer_Full



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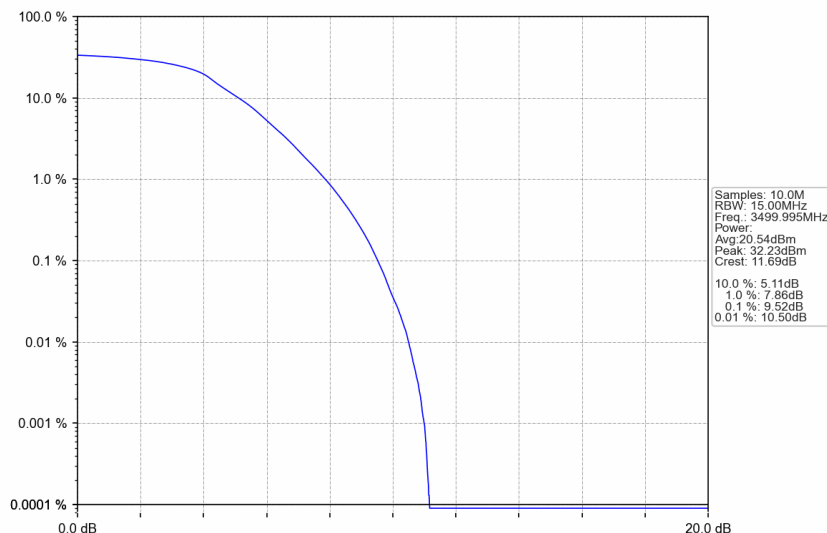
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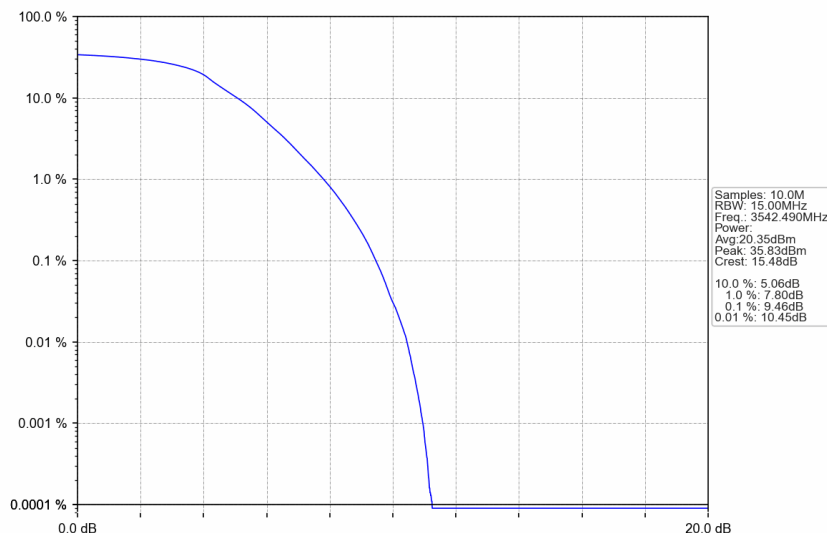
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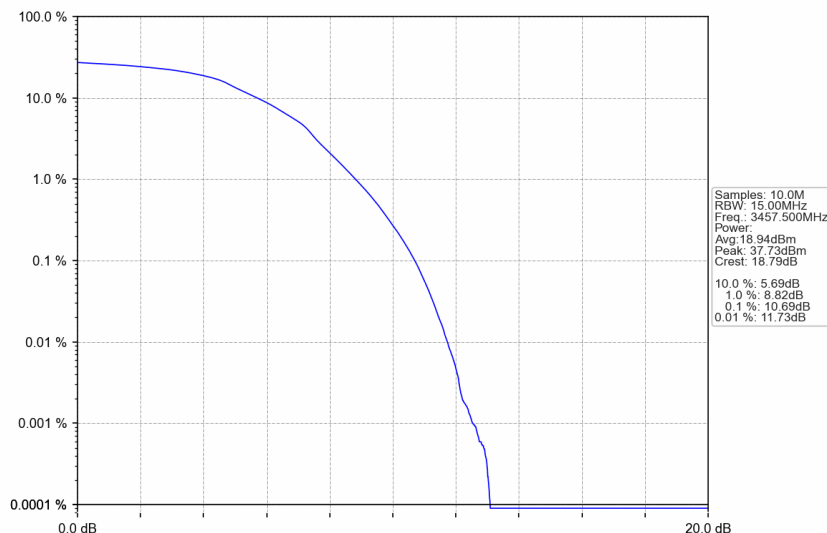
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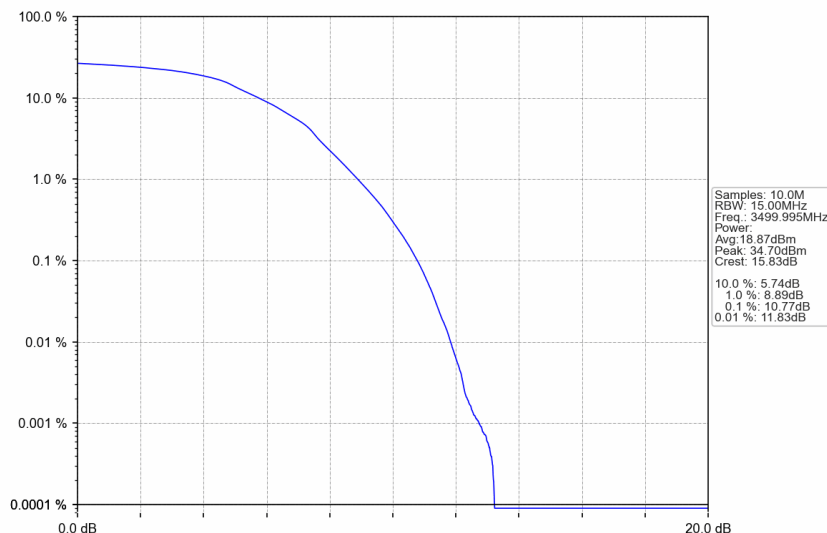
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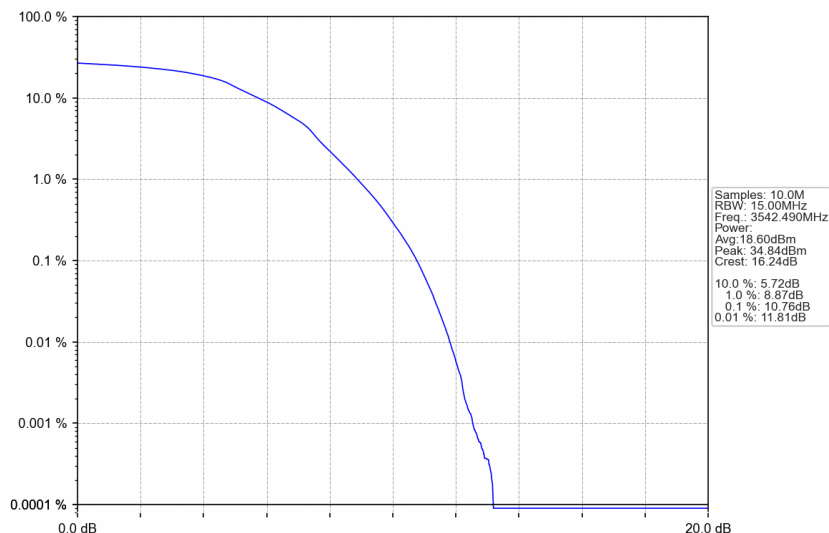
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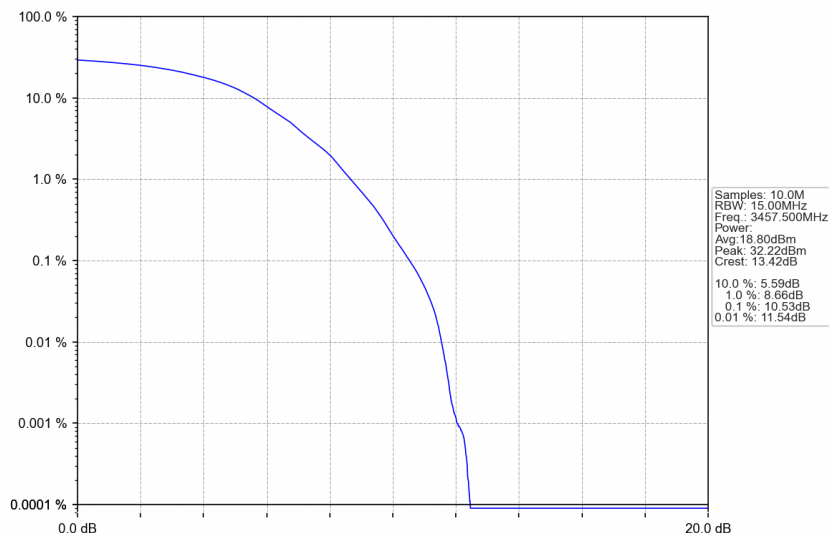
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n77d_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM_64_QAM_3457.50MHz_Outer_Full



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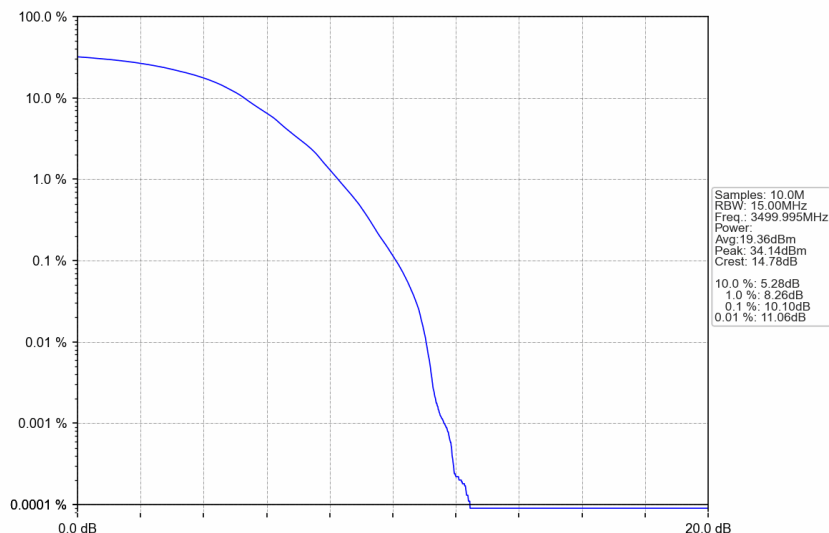
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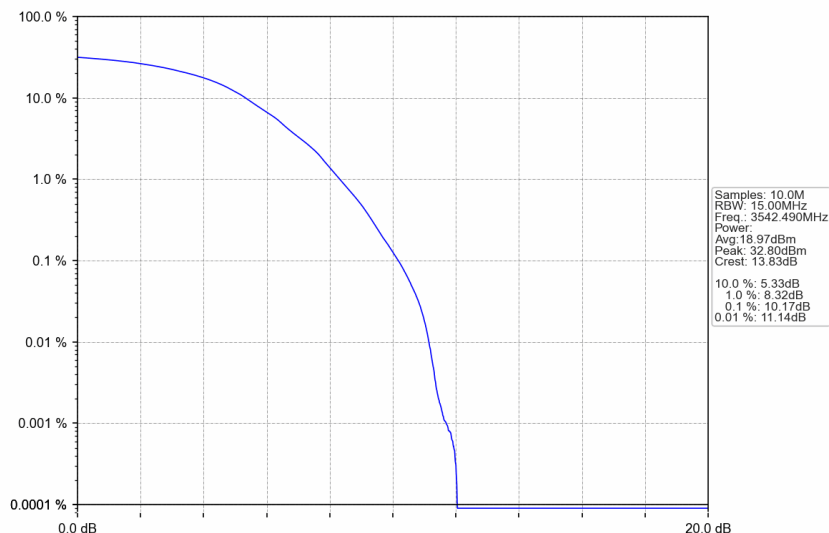
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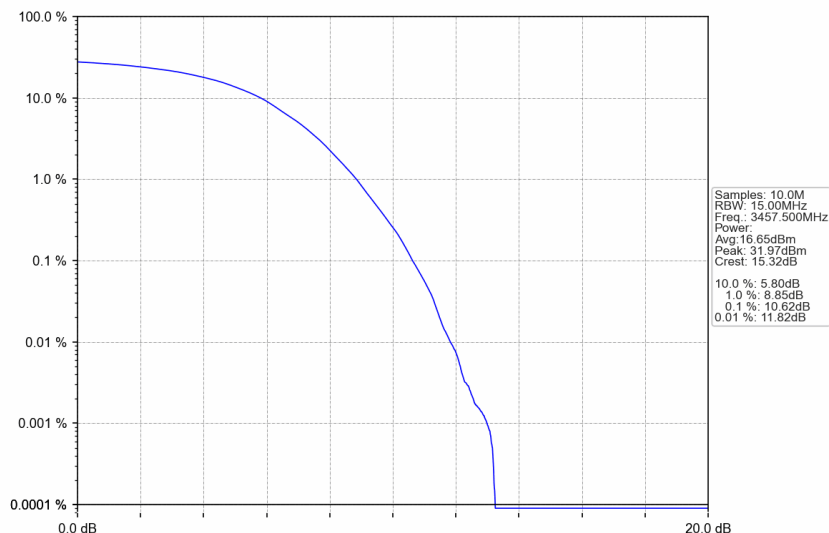
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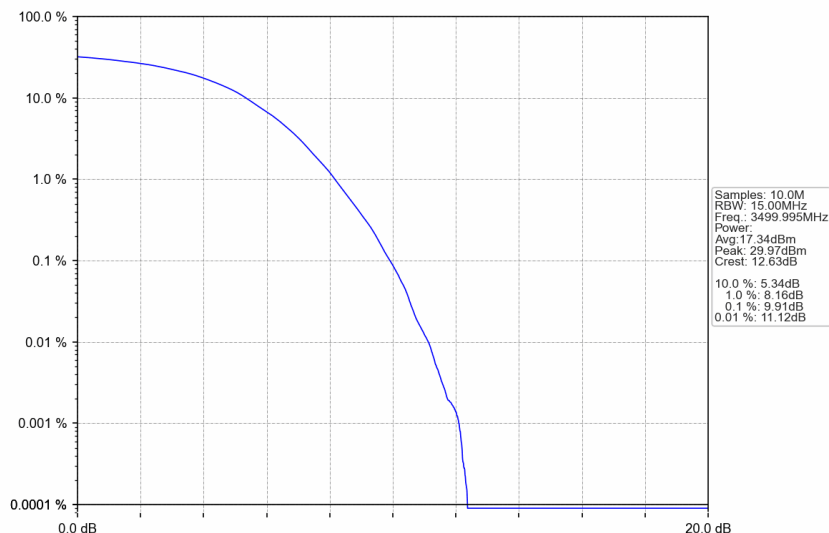
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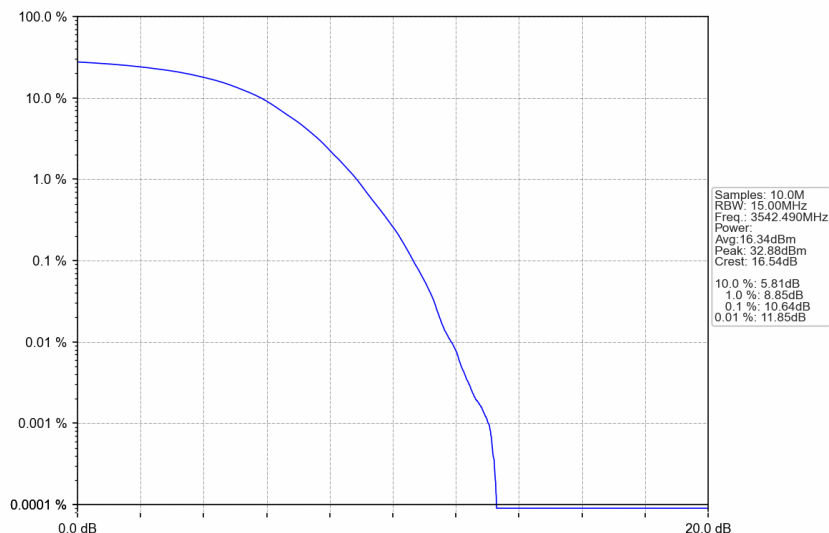
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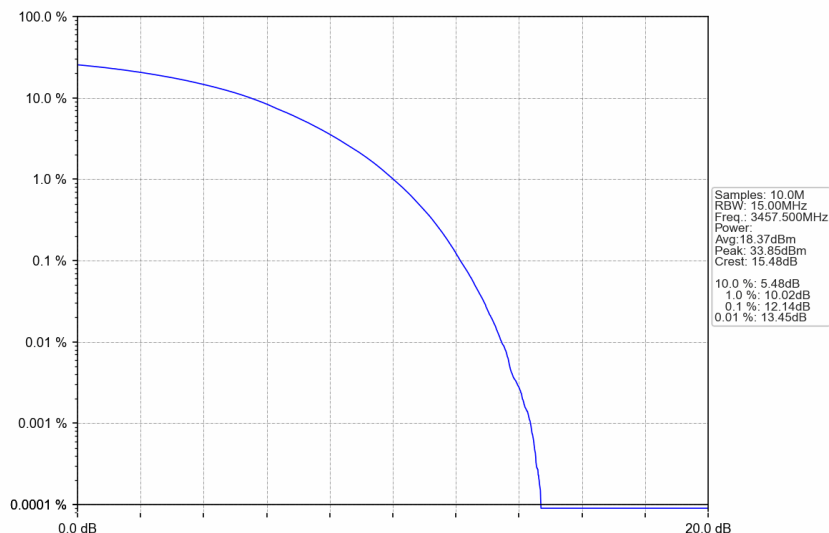
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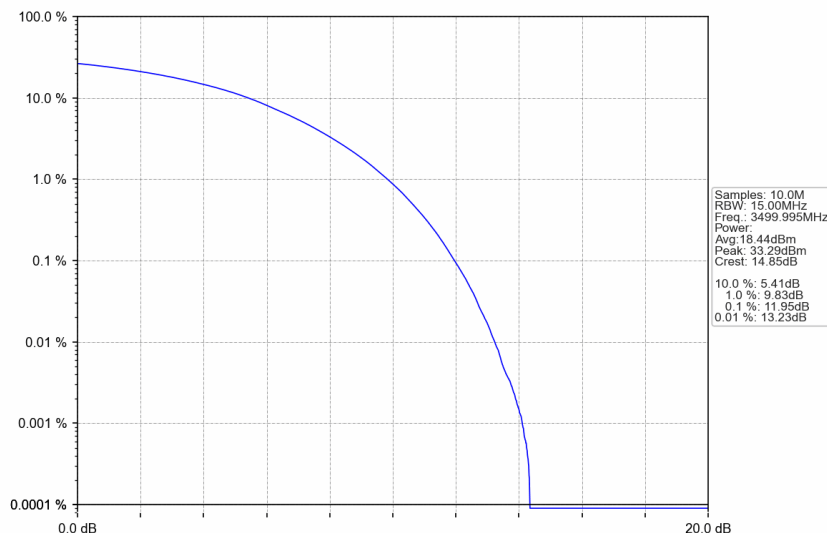
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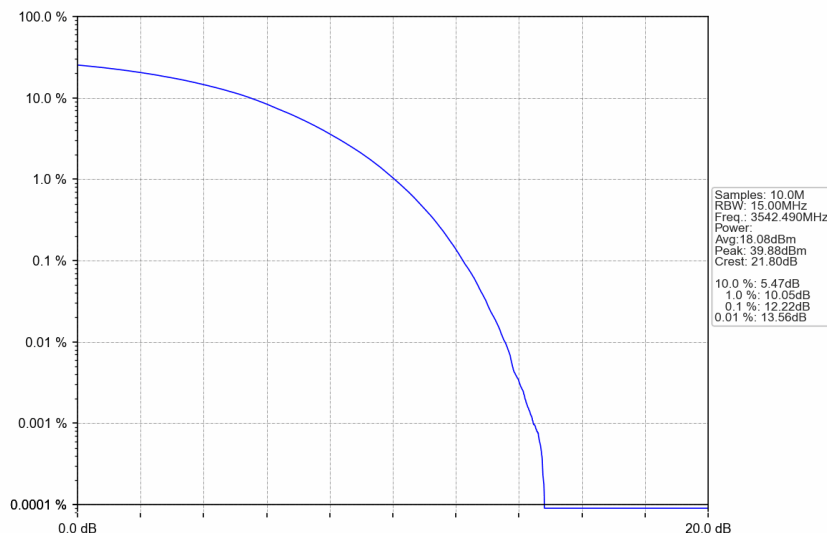
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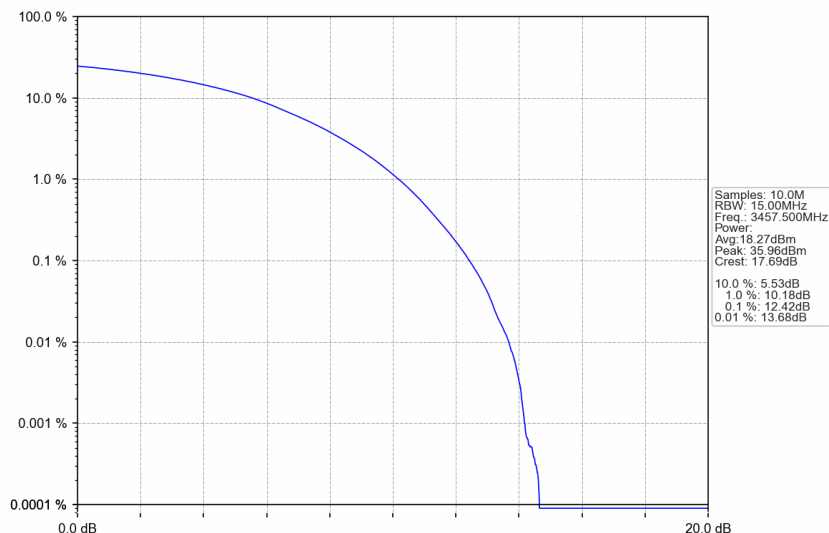
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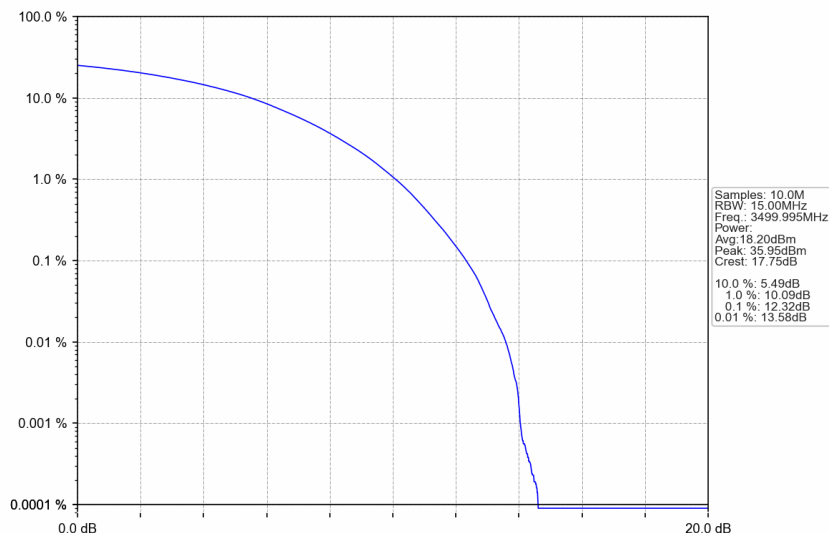
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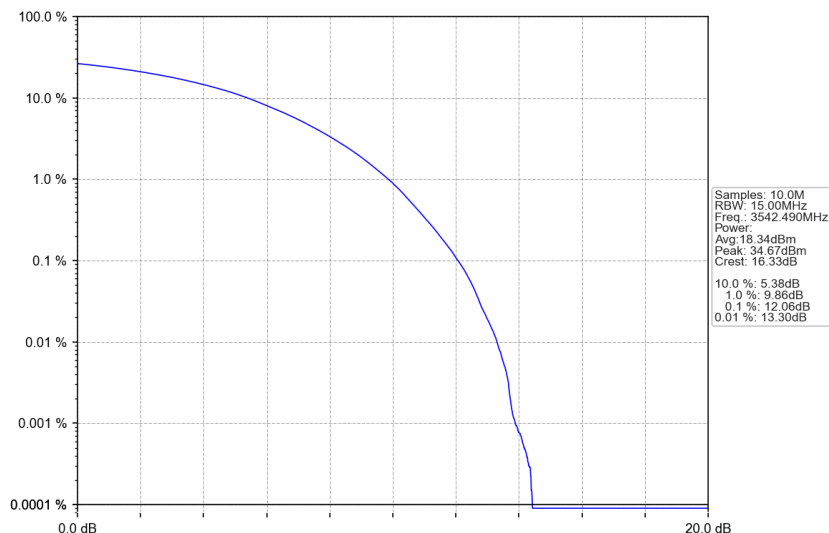
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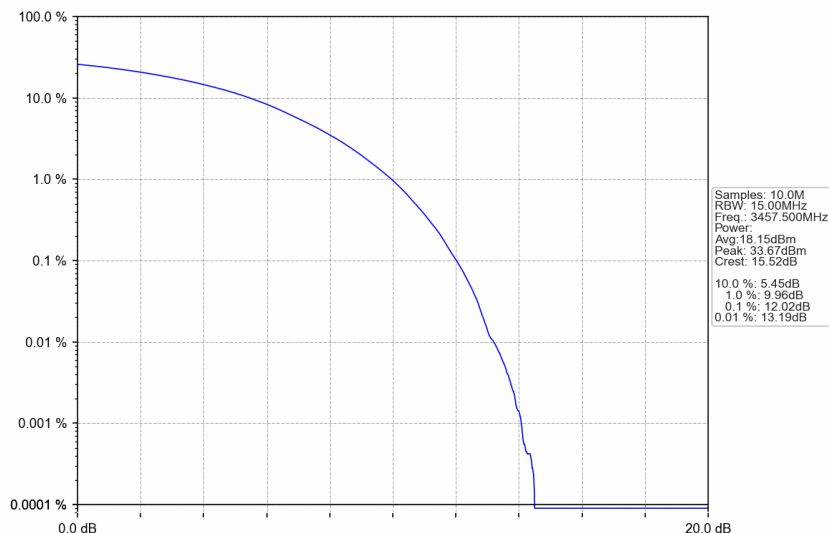
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