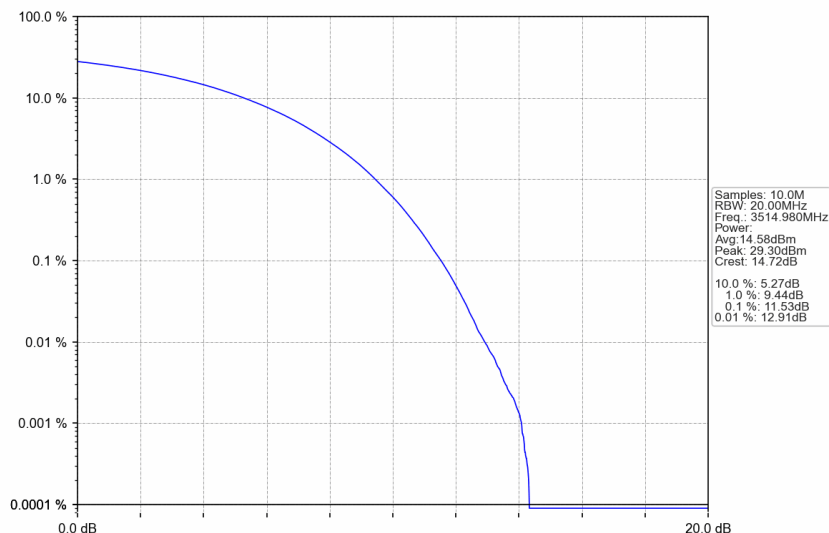


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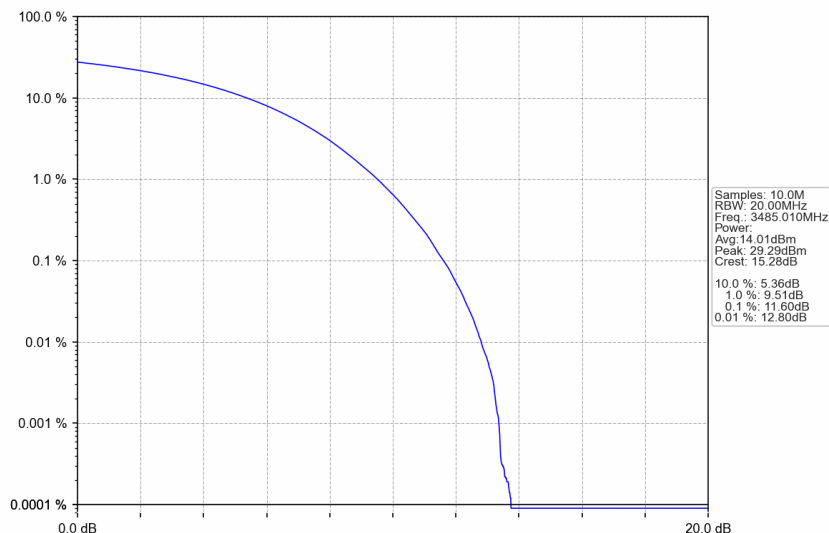
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n77d_30kHz_SISO_NTNV_70MHz_CP-OFDM 16 QAM_3514.98MHz_Outer_Full



n77d_30kHz_SISO_NTNV_70MHz_CP-OFDM 64 QAM_3485.01MHz_Outer_Full



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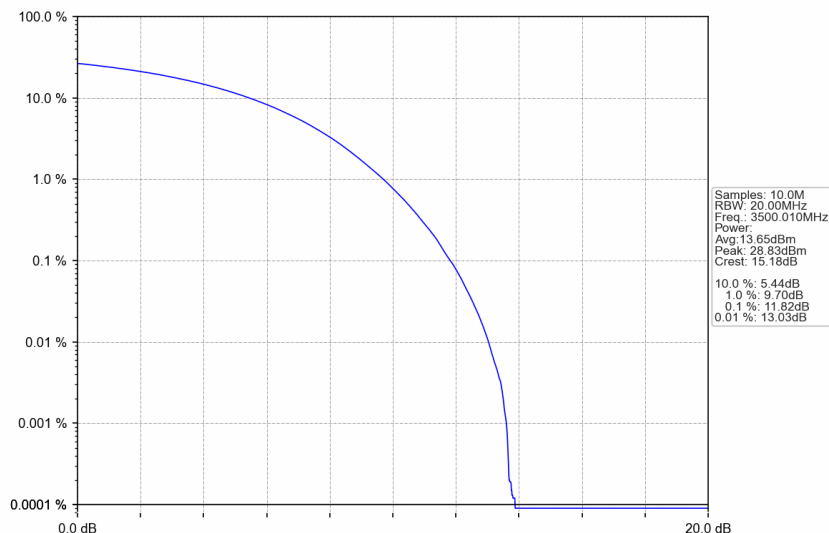
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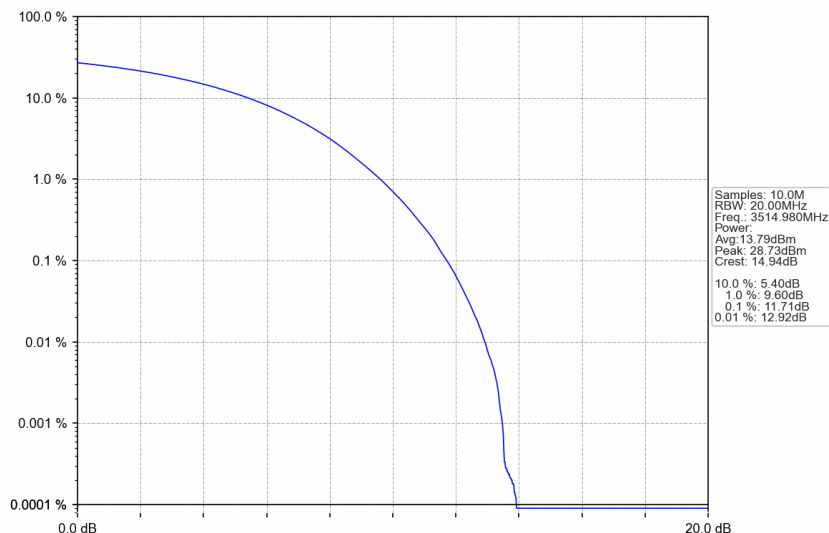
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n77d_30kHz_SISO_NTNV_70MHz_CP-OFDM 64 QAM_3500.01MHz_Outer_Full



n77d_30kHz_SISO_NTNV_70MHz_CP-OFDM 64 QAM_3514.98MHz_Outer_Full



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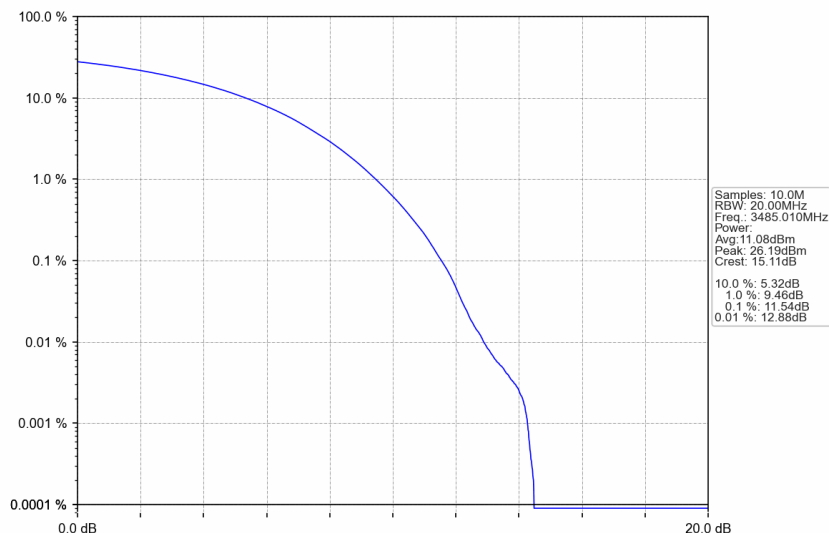
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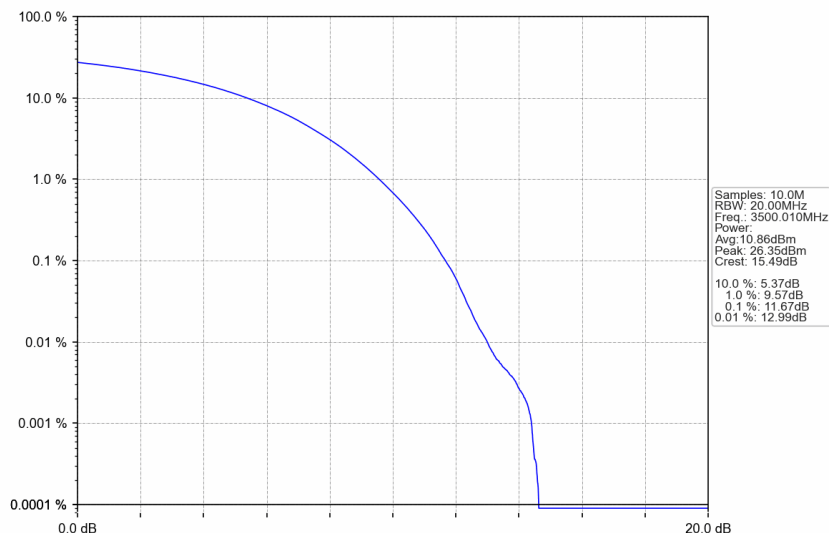
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n77d_30kHz_SISO_NTNV_70MHz_CP-OFDM_256_QAM_3485.01MHz_Outer_Full



n77d_30kHz_SISO_NTNV_70MHz_CP-OFDM_256_QAM_3500.01MHz_Outer_Full



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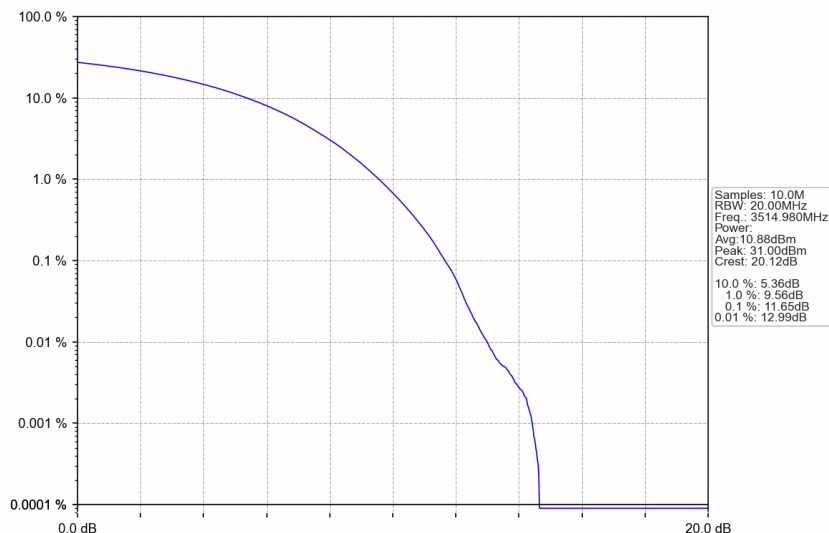
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n77d_30kHz_SISO_NTNV_70MHz_CP-OFDM_256_QAM_3514.98MHz_Outer_Full



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5.17 30k_SISO_80MHz_NTNV

5.17.1 Test Result

5G NR n77d SCS=30kHz SISO 80MHz NTV							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant5	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3490.02	Outer_Full	12.30	/	/	<=13	Pass
	3500.01	Outer_Full	12.36	/	/	<=13	Pass
	3510	Outer_Full	12.14	/	/	<=13	Pass
DFT-s-OFDM QPSK	3490.02	Outer_Full	10.54	/	/	<=13	Pass
	3500.01	Outer_Full	12.58	/	/	<=13	Pass
	3510	Outer_Full	12.72	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3490.02	Outer_Full	10.31	/	/	<=13	Pass
	3500.01	Outer_Full	10.76	/	/	<=13	Pass
	3510	Outer_Full	10.97	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3490.02	Outer_Full	11.17	/	/	<=13	Pass
	3500.01	Outer_Full	11.03	/	/	<=13	Pass
	3510	Outer_Full	11.10	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3490.02	Outer_Full	11.04	/	/	<=13	Pass
	3500.01	Outer_Full	11.06	/	/	<=13	Pass
	3510	Outer_Full	10.75	/	/	<=13	Pass
CP-OFDM QPSK	3490.02	Outer_Full	11.97	/	/	<=13	Pass
	3500.01	Outer_Full	11.95	/	/	<=13	Pass
	3510	Outer_Full	11.78	/	/	<=13	Pass
CP-OFDM 16 QAM	3490.02	Outer_Full	11.63	/	/	<=13	Pass
	3500.01	Outer_Full	11.83	/	/	<=13	Pass
	3510	Outer_Full	11.85	/	/	<=13	Pass
CP-OFDM 64 QAM	3490.02	Outer_Full	11.58	/	/	<=13	Pass
	3500.01	Outer_Full	11.89	/	/	<=13	Pass
	3510	Outer_Full	11.71	/	/	<=13	Pass
CP-OFDM 256 QAM	3490.02	Outer_Full	11.69	/	/	<=13	Pass
	3500.01	Outer_Full	11.73	/	/	<=13	Pass
	3510	Outer_Full	11.77	/	/	<=13	Pass



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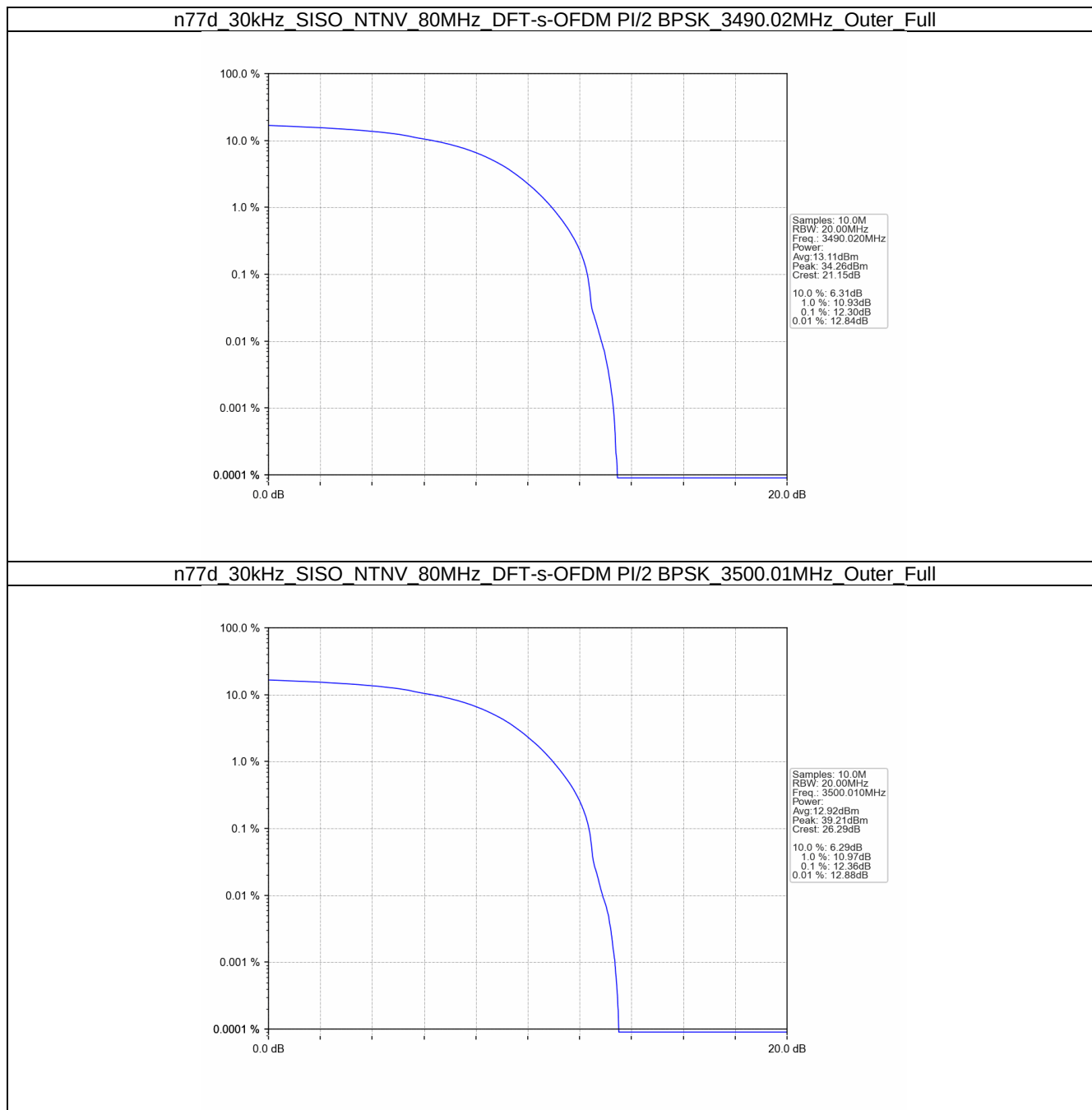
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5.17.2 Test Graph



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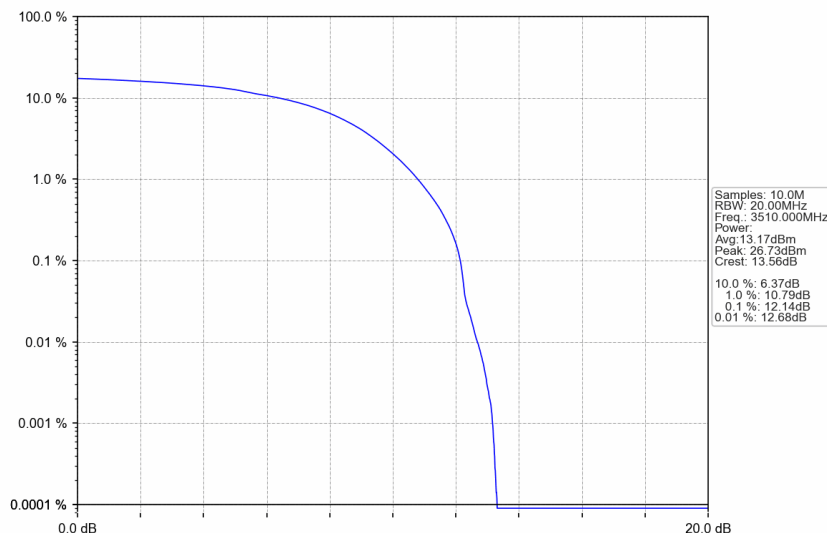
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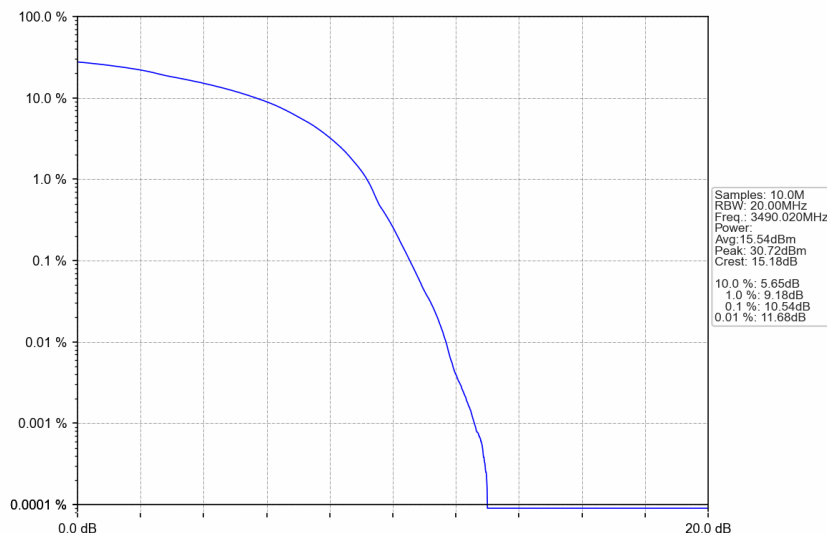
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n77d_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM PI/2 BPSK_3510MHz_Outer_Full



n77d_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM QPSK_3490.02MHz_Outer_Full



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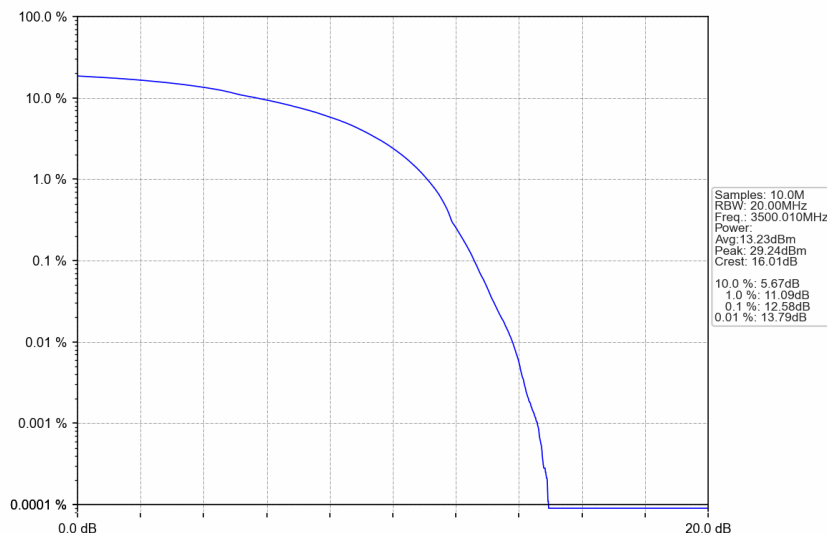
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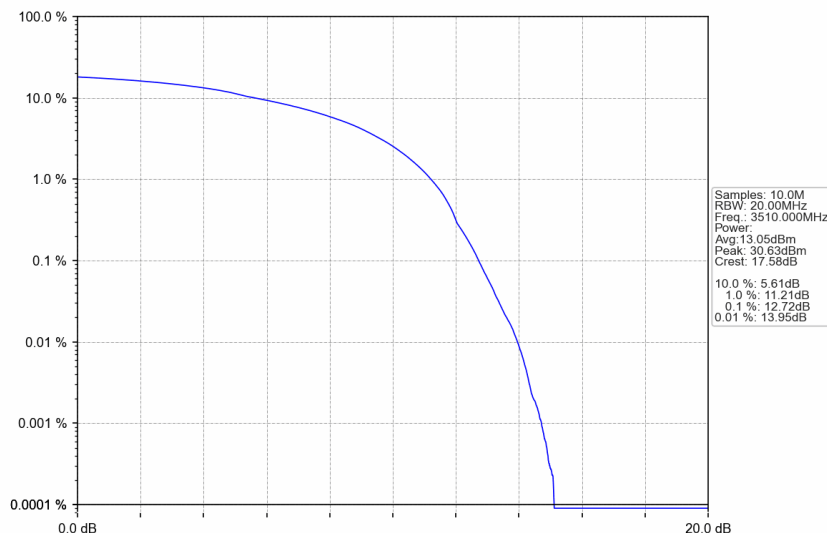
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n77d_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM QPSK_3500.01MHz_Outer_Full



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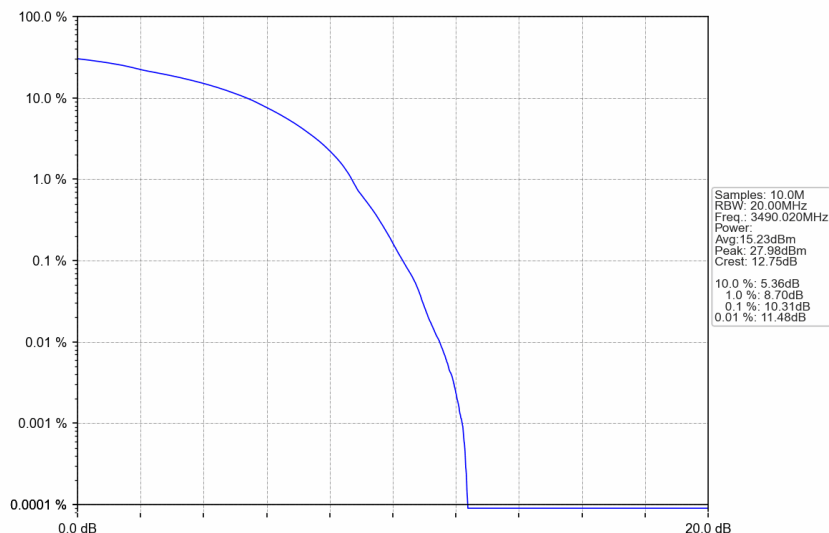
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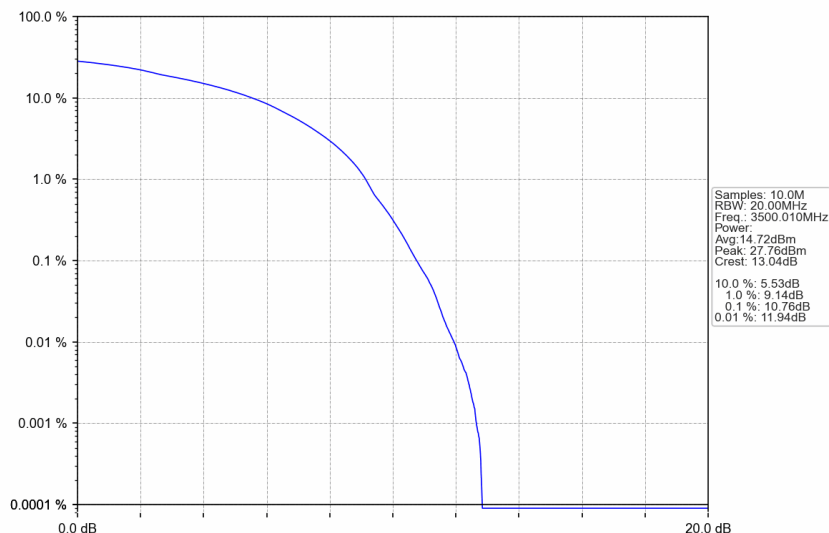
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n77d_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM_16_QAM_3490.02MHz_Outer_Full



n77d_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM_16_QAM_3500.01MHz_Outer_Full



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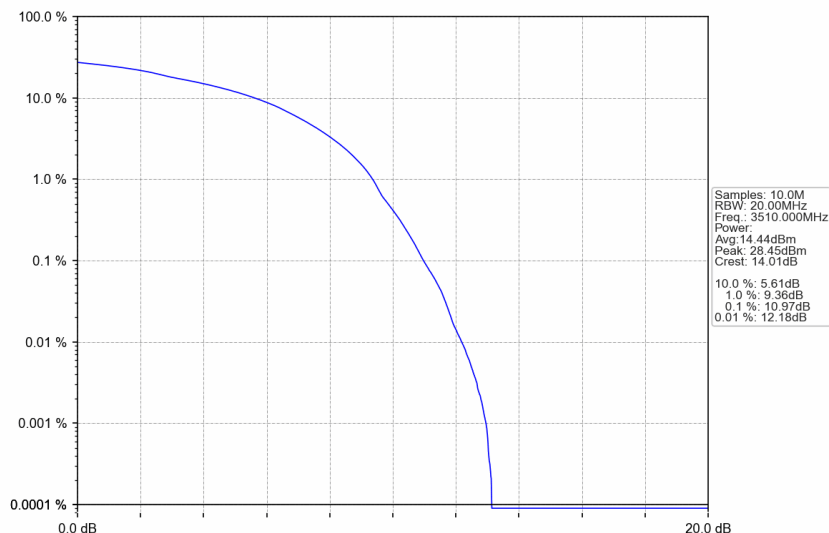
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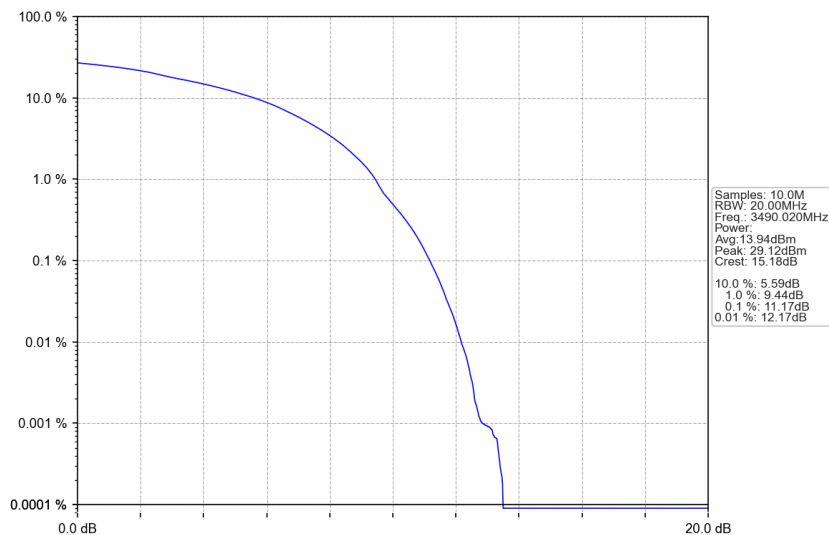
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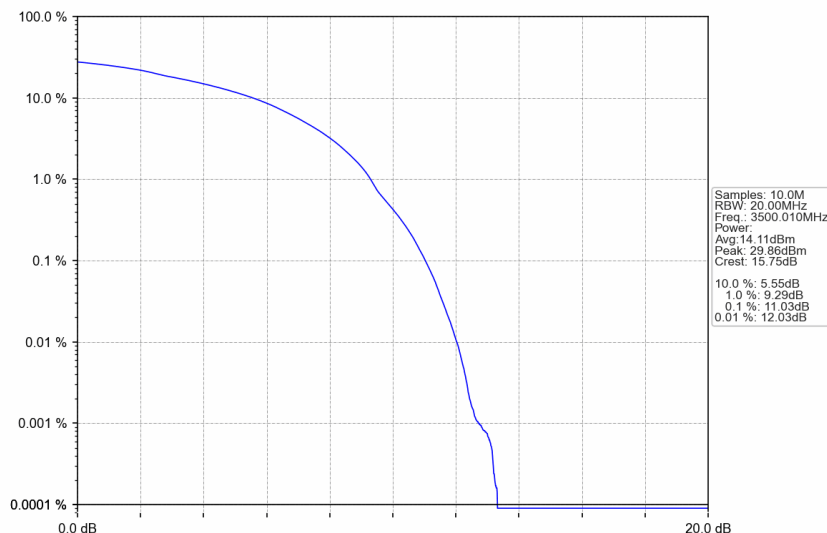
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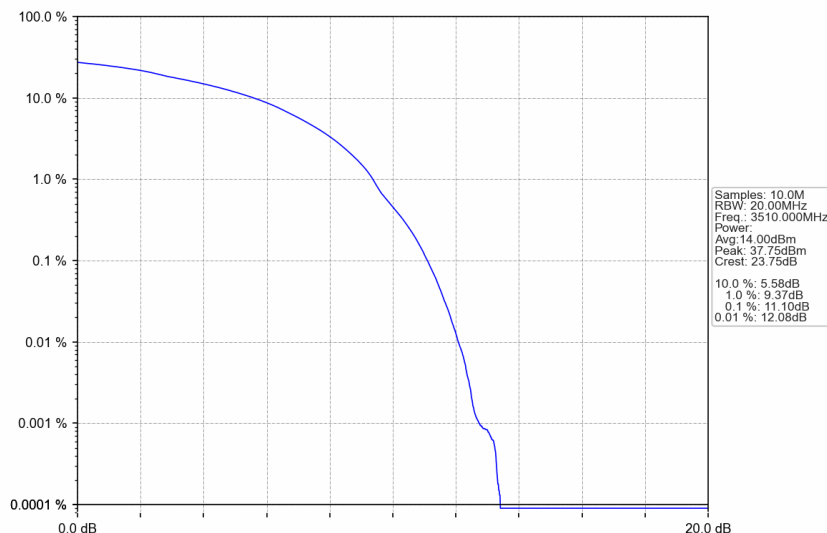
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n77d_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM_64_QAM_3500.01MHz_Outer_Full



n77d_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM_64_QAM_3510MHz_Outer_Full



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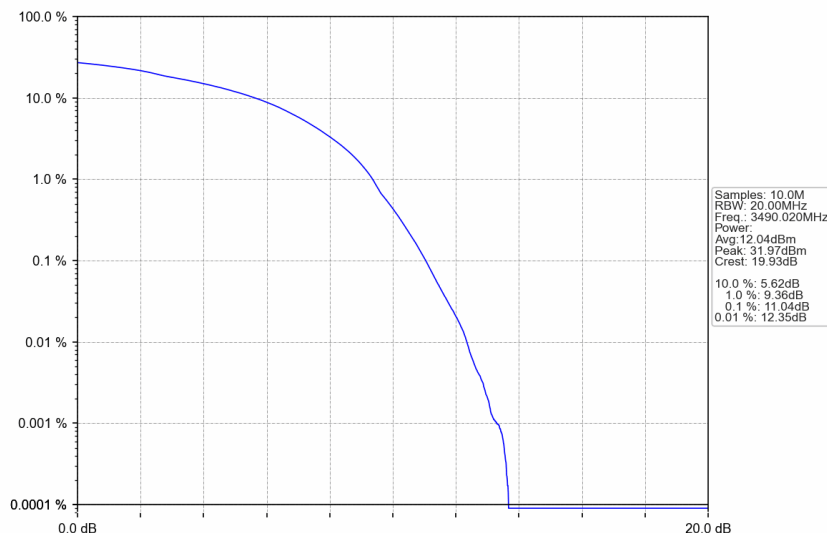
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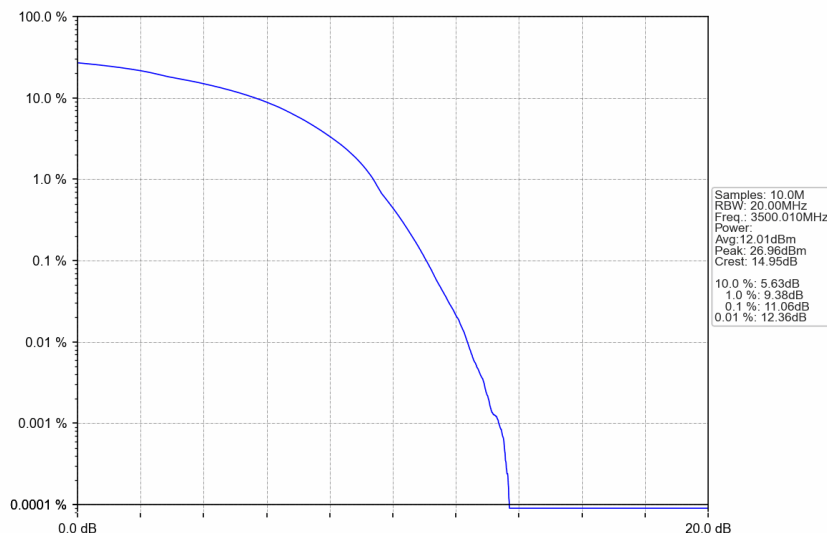
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n77d_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM_256_QAM_3490.02MHz_Outer_Full



n77d_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM_256_QAM_3500.01MHz_Outer_Full



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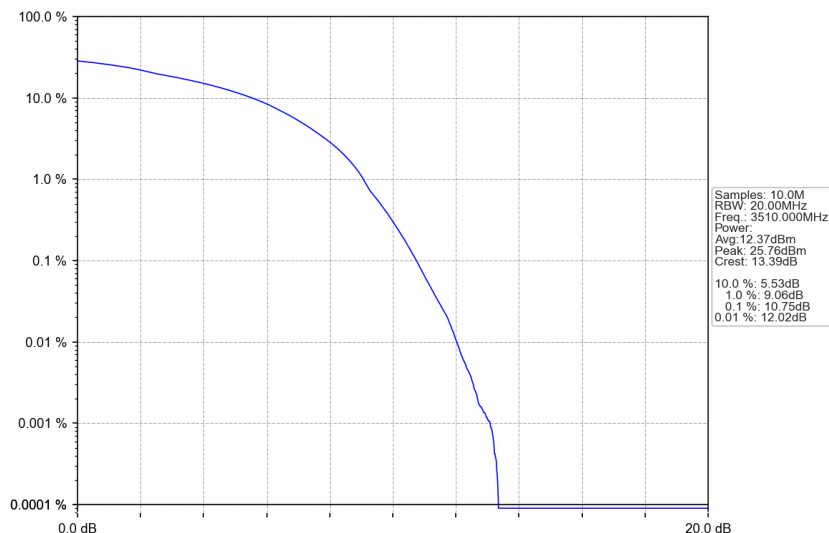
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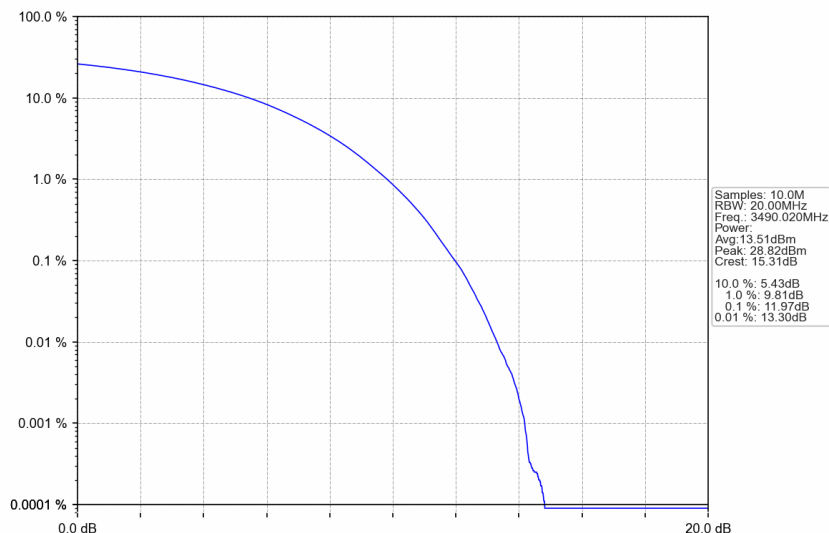
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n77d_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM_256_QAM_3510MHz_Outer_Full



n77d_30kHz_SISO_NTNV_80MHz_CP-OFDM_QPSK_3490.02MHz_Outer_Full



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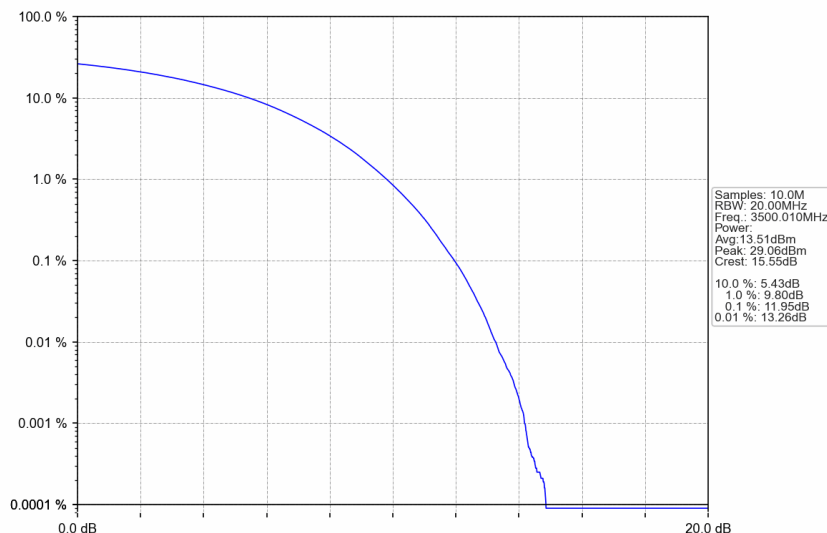
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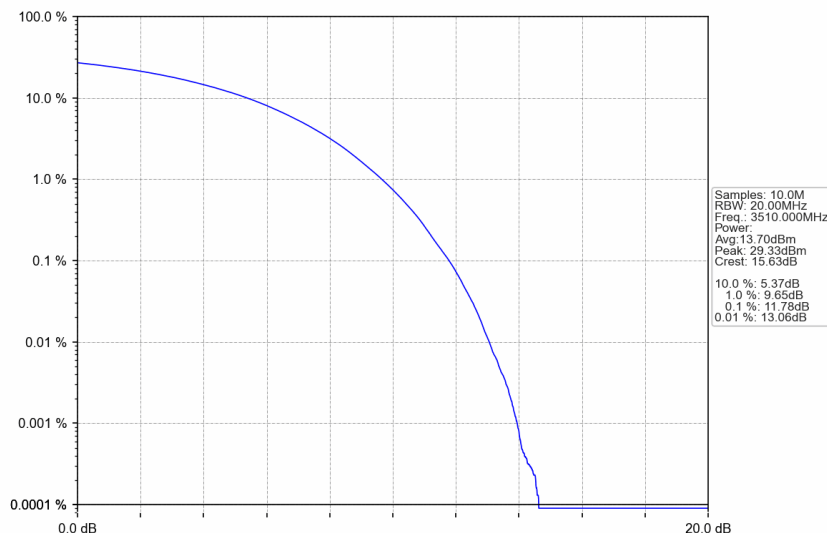
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n77d_30kHz_SISO_NTNV_80MHz_CP-OFDM QPSK_3500.01MHz_Outer_Full



n77d_30kHz_SISO_NTNV_80MHz_CP-OFDM QPSK_3510MHz_Outer_Full



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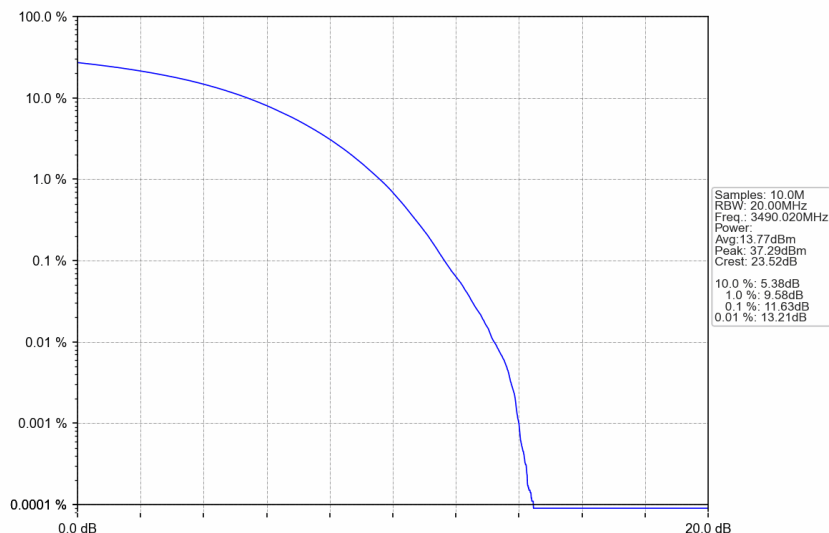
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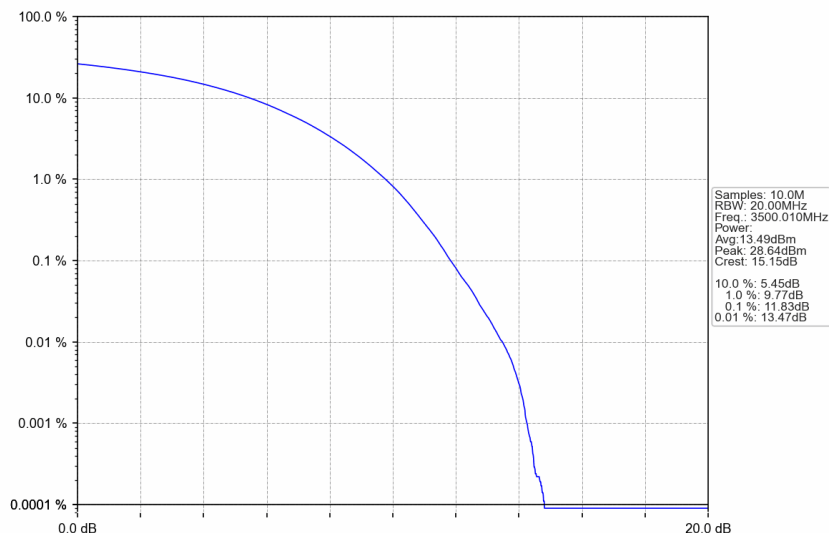
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n77d_30kHz_SISO_NTNV_80MHz_CP-OFDM_16_QAM_3490.02MHz_Outer_Full



n77d_30kHz_SISO_NTNV_80MHz_CP-OFDM_16_QAM_3500.01MHz_Outer_Full



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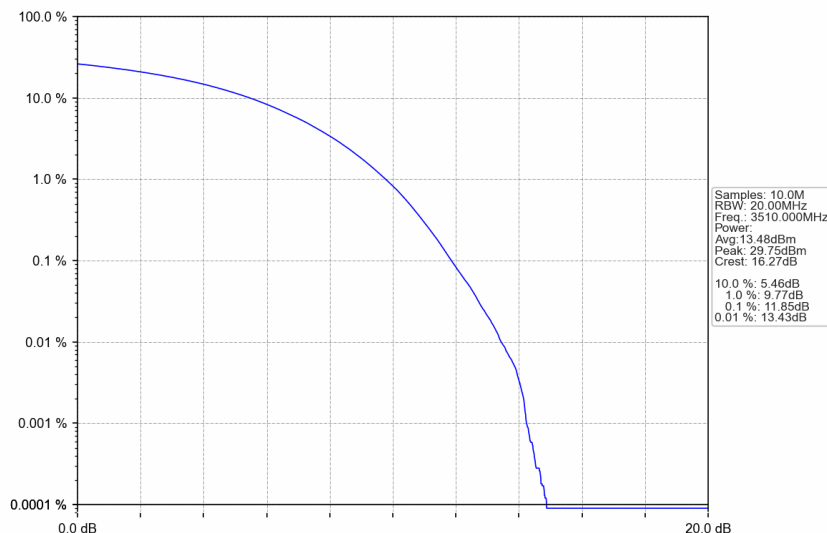
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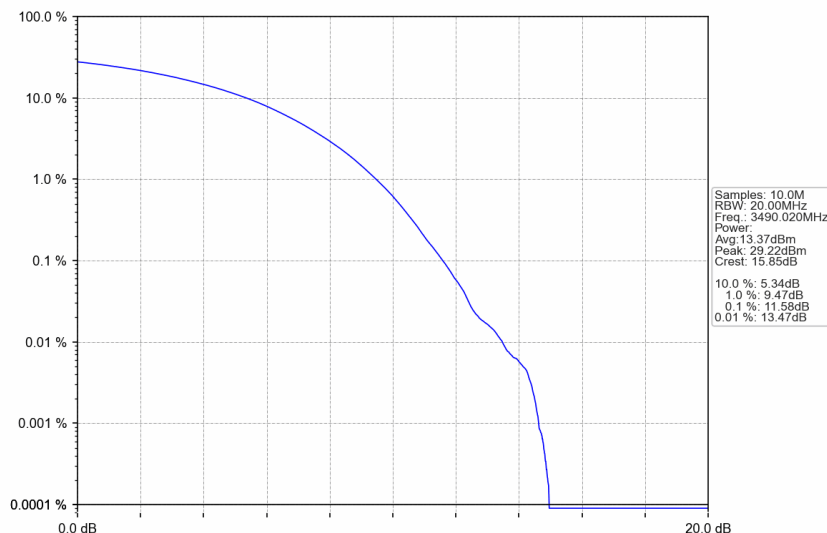
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n77d_30kHz_SISO_NTNV_80MHz_CP-OFDM_16_QAM_3510MHz_Outer_Full



n77d_30kHz_SISO_NTNV_80MHz_CP-OFDM_64_QAM_3490.02MHz_Outer_Full



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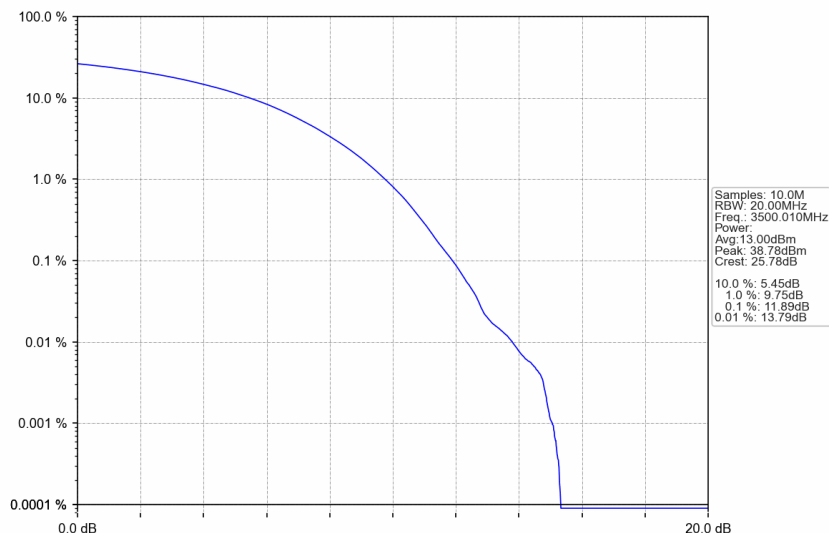
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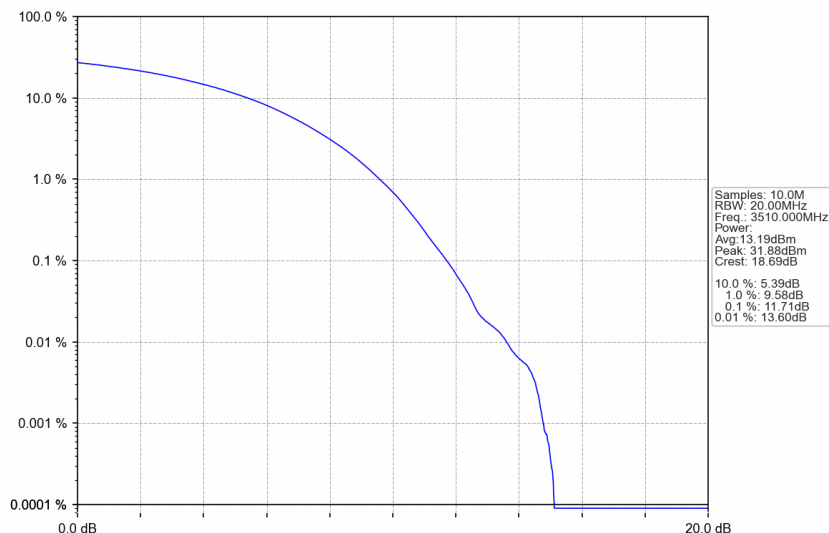
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n77d_30kHz_SISO_NTNV_80MHz_CP-OFDM 64 QAM_3500.01MHz_Outer_Full



n77d_30kHz_SISO_NTNV_80MHz_CP-OFDM 64 QAM_3510MHz_Outer_Full



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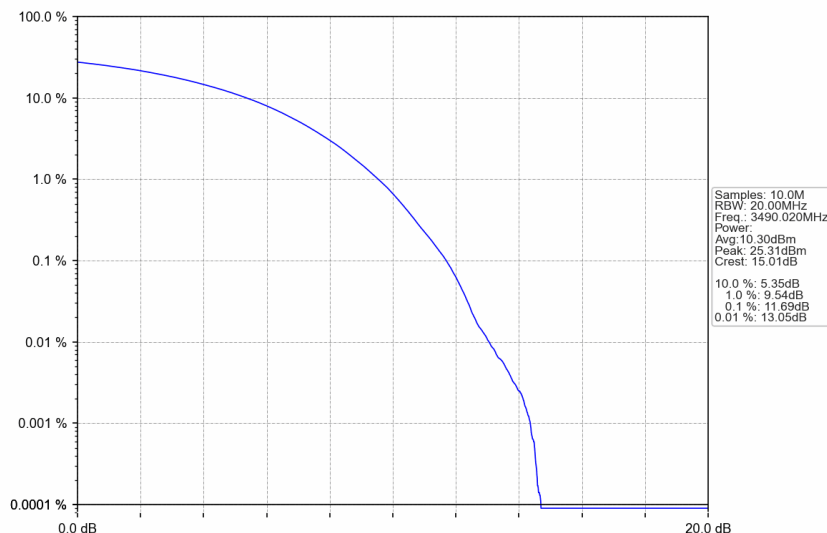
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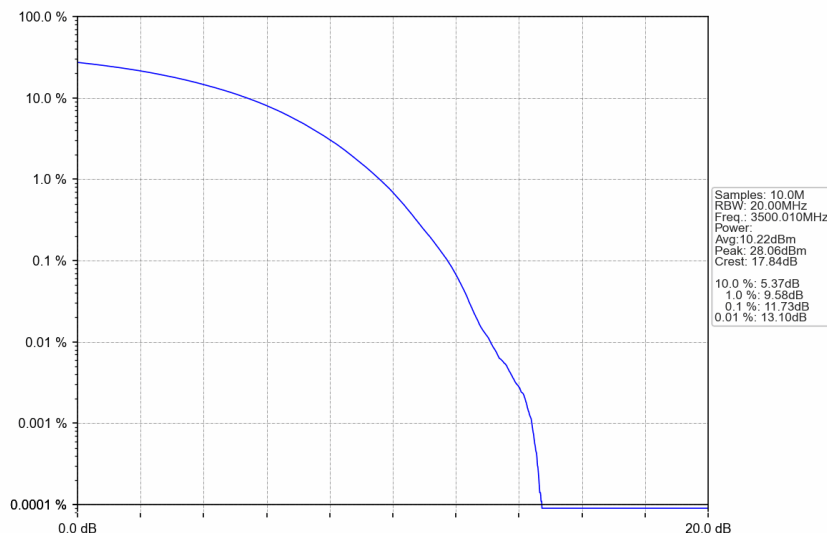
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n77d_30kHz_SISO_NTNV_80MHz_CP-OFDM_256_QAM_3490.02MHz_Outer_Full



n77d_30kHz_SISO_NTNV_80MHz_CP-OFDM_256_QAM_3500.01MHz_Outer_Full



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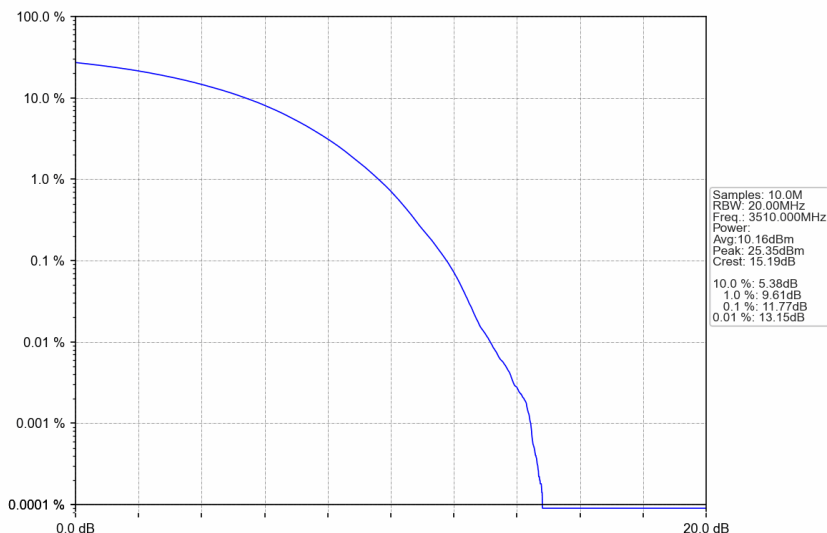
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5.18 30k_SISO_90MHz_NTNV

5.18.1 Test Result

5G NR n77d SCS=30kHz SISO 90MHz NTV							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant5	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3495	Outer_Full	12.83	/	/	<=13	Pass
	3500.01	Outer_Full	12.68	/	/	<=13	Pass
	3504.99	Outer_Full	12.19	/	/	<=13	Pass
DFT-s-OFDM QPSK	3495	Outer_Full	10.30	/	/	<=13	Pass
	3500.01	Outer_Full	12.94	/	/	<=13	Pass
	3504.99	Outer_Full	10.82	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3495	Outer_Full	10.96	/	/	<=13	Pass
	3500.01	Outer_Full	11.03	/	/	<=13	Pass
	3504.99	Outer_Full	11.12	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3495	Outer_Full	10.34	/	/	<=13	Pass
	3500.01	Outer_Full	10.52	/	/	<=13	Pass
	3504.99	Outer_Full	10.34	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3495	Outer_Full	11.33	/	/	<=13	Pass
	3500.01	Outer_Full	11.15	/	/	<=13	Pass
	3504.99	Outer_Full	11.20	/	/	<=13	Pass
CP-OFDM QPSK	3495	Outer_Full	11.66	/	/	<=13	Pass
	3500.01	Outer_Full	11.64	/	/	<=13	Pass
	3504.99	Outer_Full	11.74	/	/	<=13	Pass
CP-OFDM 16 QAM	3495	Outer_Full	11.61	/	/	<=13	Pass
	3500.01	Outer_Full	11.79	/	/	<=13	Pass
	3504.99	Outer_Full	11.56	/	/	<=13	Pass
CP-OFDM 64 QAM	3495	Outer_Full	11.79	/	/	<=13	Pass
	3500.01	Outer_Full	11.77	/	/	<=13	Pass
	3504.99	Outer_Full	11.70	/	/	<=13	Pass
CP-OFDM 256 QAM	3495	Outer_Full	11.78	/	/	<=13	Pass
	3500.01	Outer_Full	11.84	/	/	<=13	Pass
	3504.99	Outer_Full	11.80	/	/	<=13	Pass



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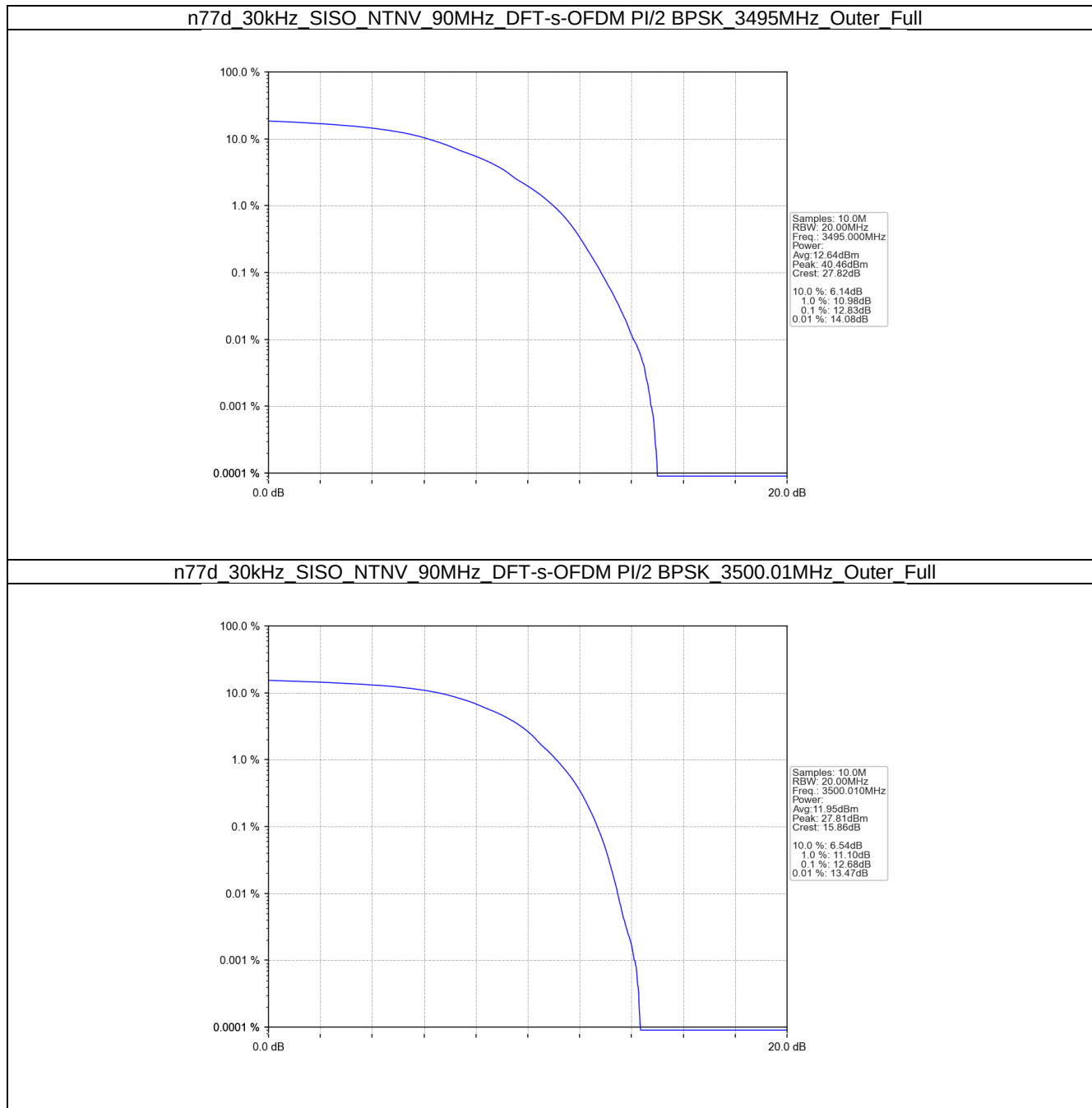
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5.18.2 Test Graph



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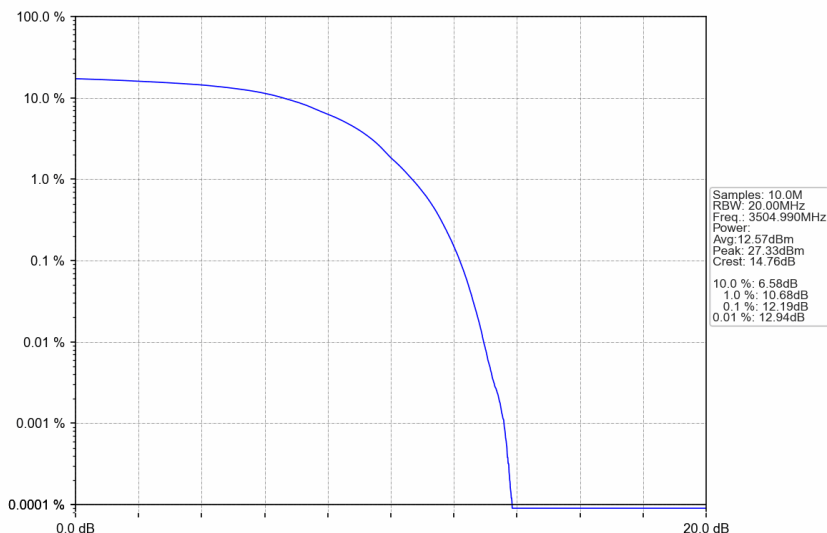
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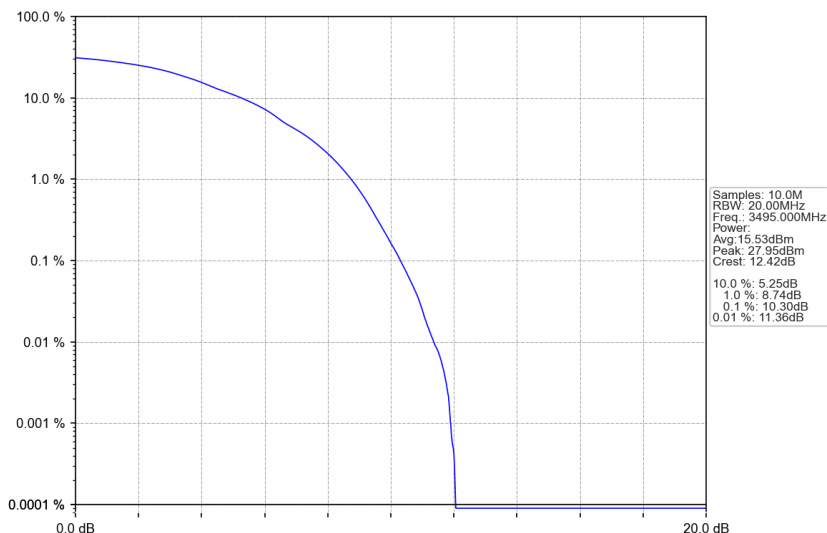
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n77d_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM PI/2 BPSK_3504.99MHz_Outer_Full



n77d_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM QPSK_3495MHz_Outer_Full



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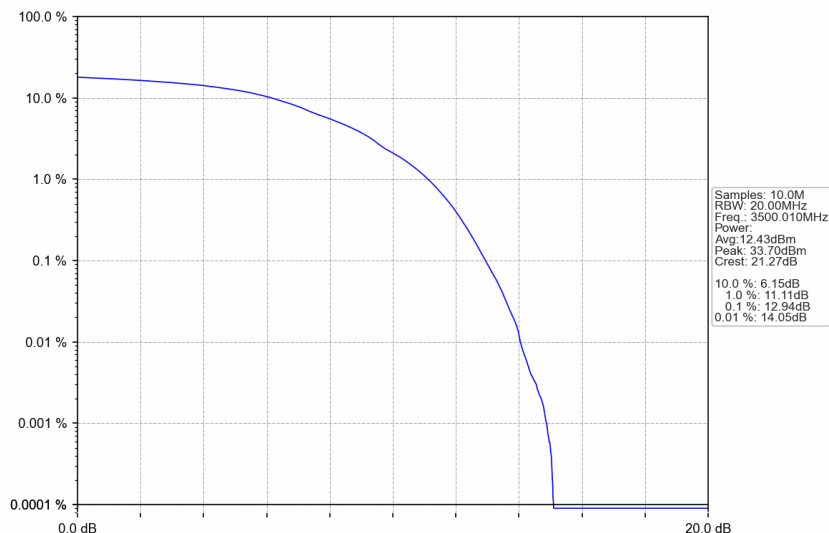
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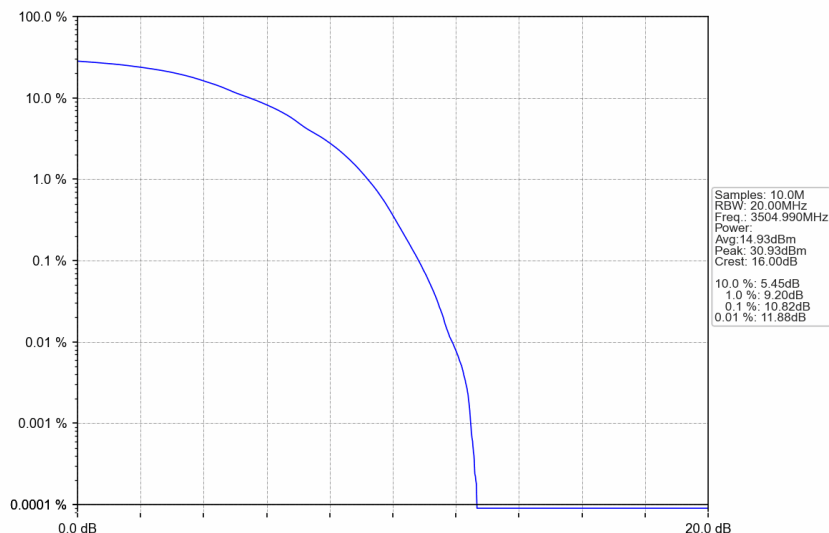
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n77d_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM QPSK_3504.99MHz_Outer_Full



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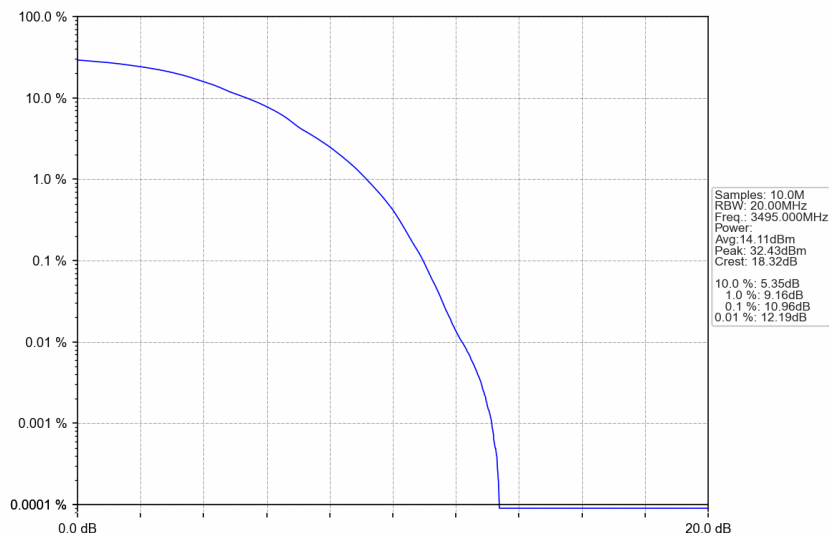
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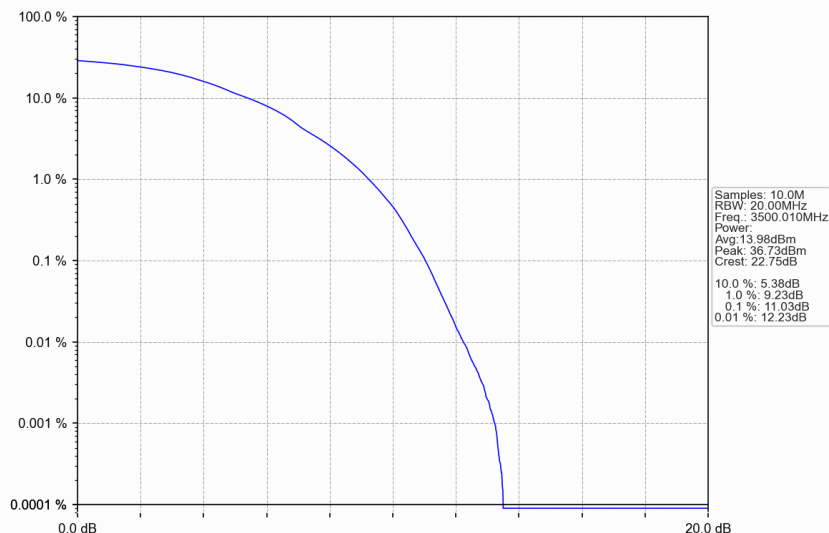
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n77d_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM_16_QAM_3495MHz_Outer_Full



n77d_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM_16_QAM_3500.01MHz_Outer_Full



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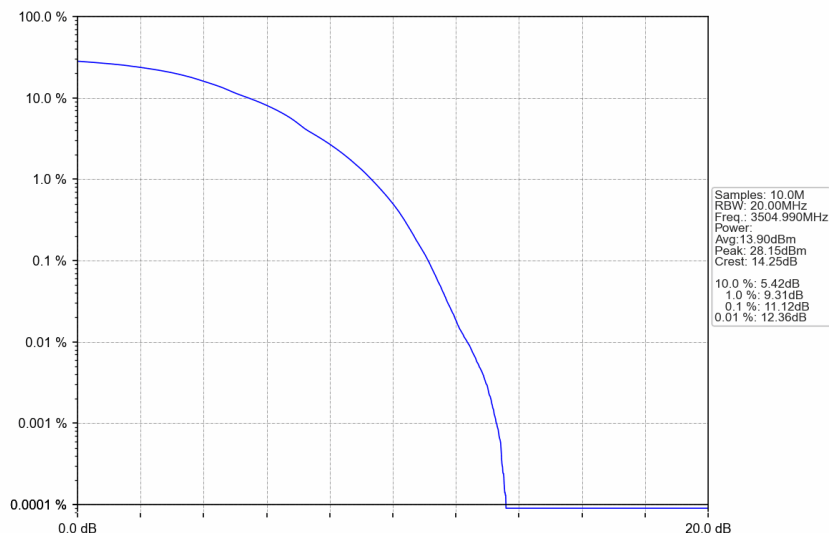
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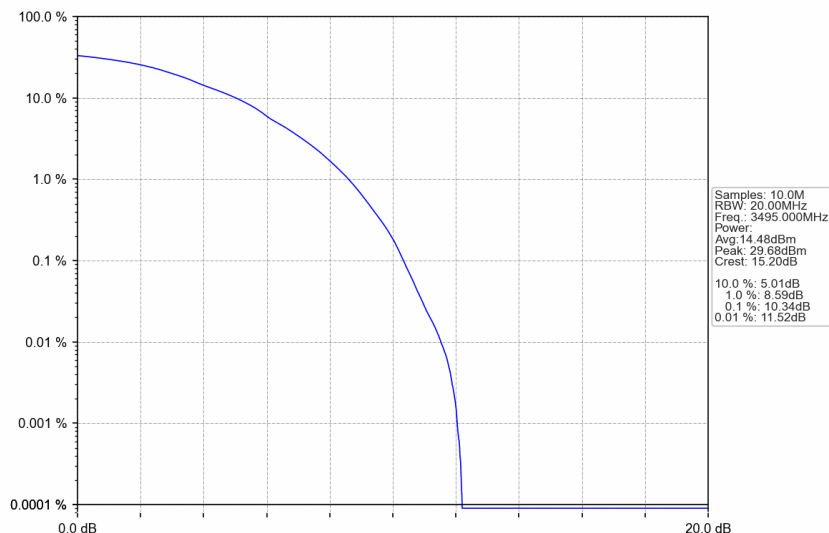
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n77d_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM_16_QAM_3504.99MHz_Outer_Full



n77d_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM_64_QAM_3495MHz_Outer_Full



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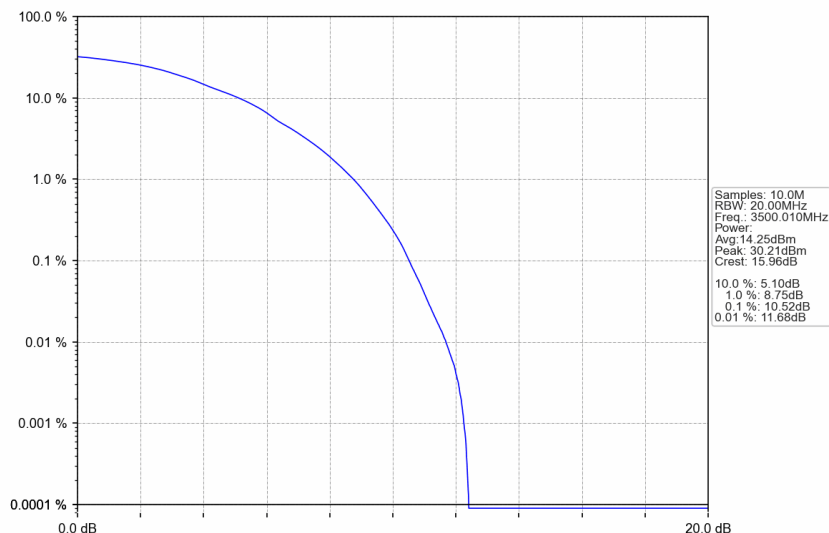
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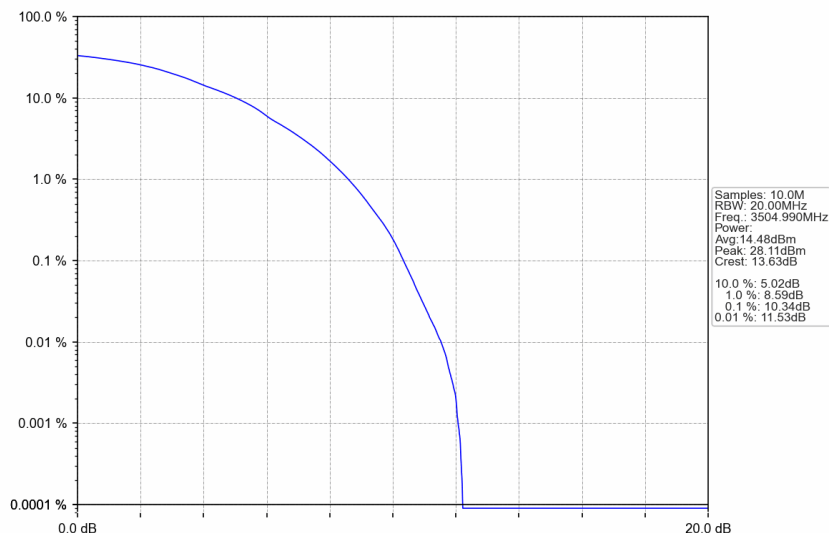
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n77d_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM_64_QAM_3504.99MHz_Outer_Full



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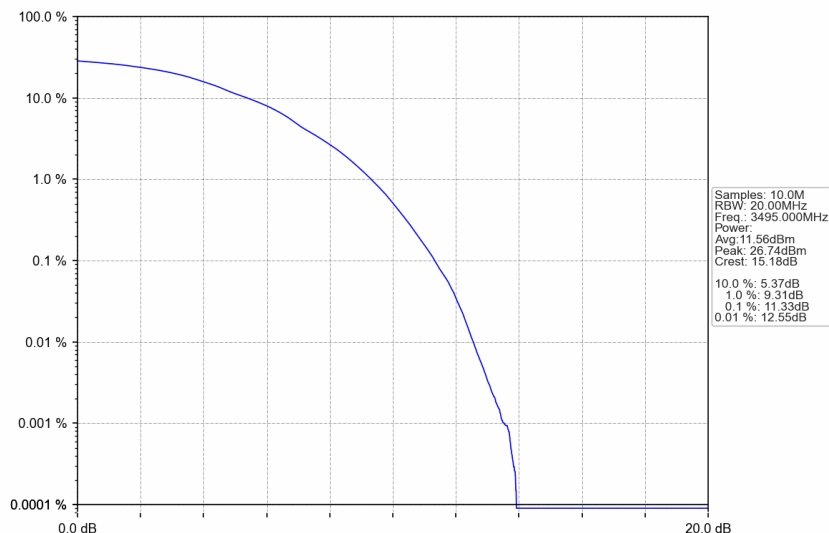
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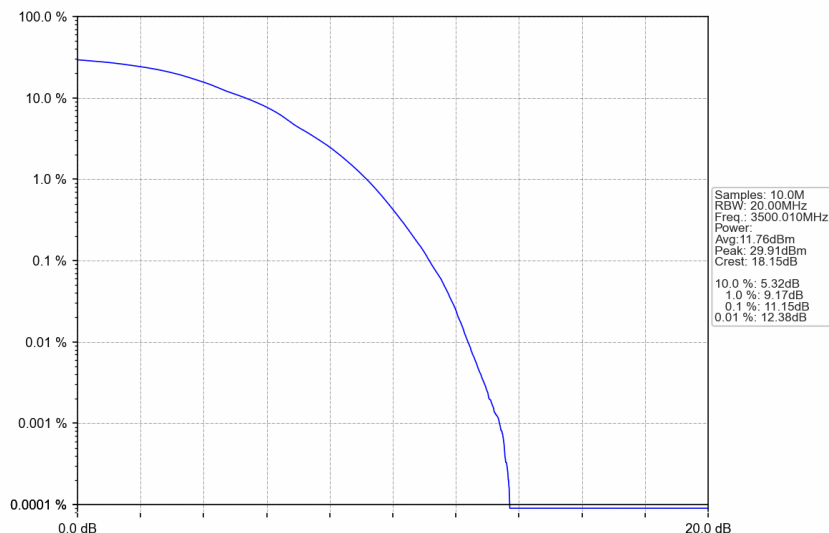
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n77d_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM_256_QAM_3500.01MHz_Outer_Full



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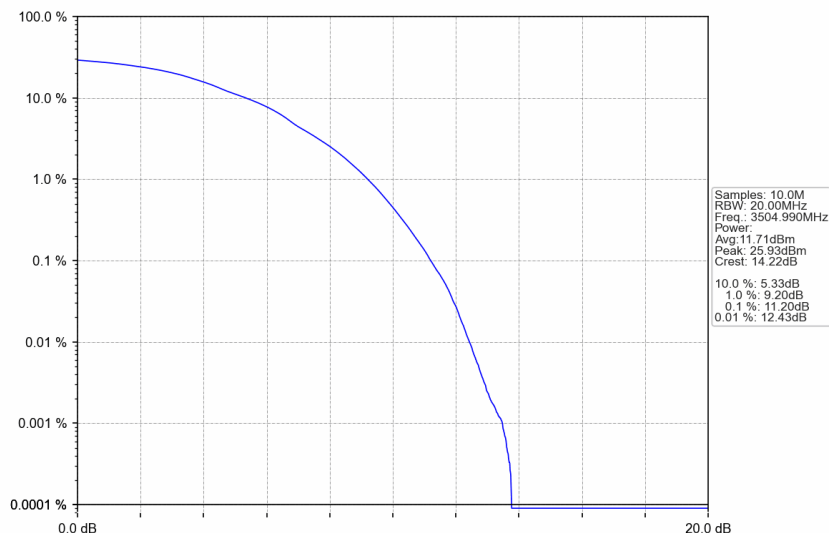
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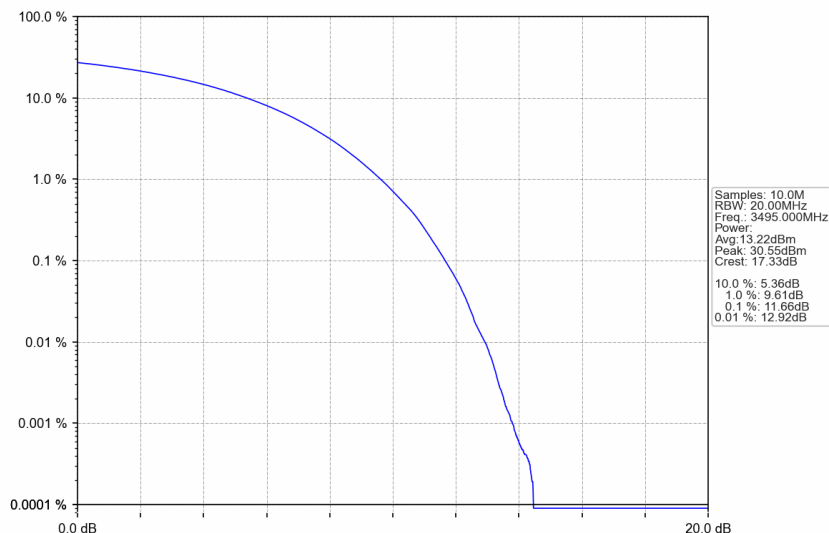
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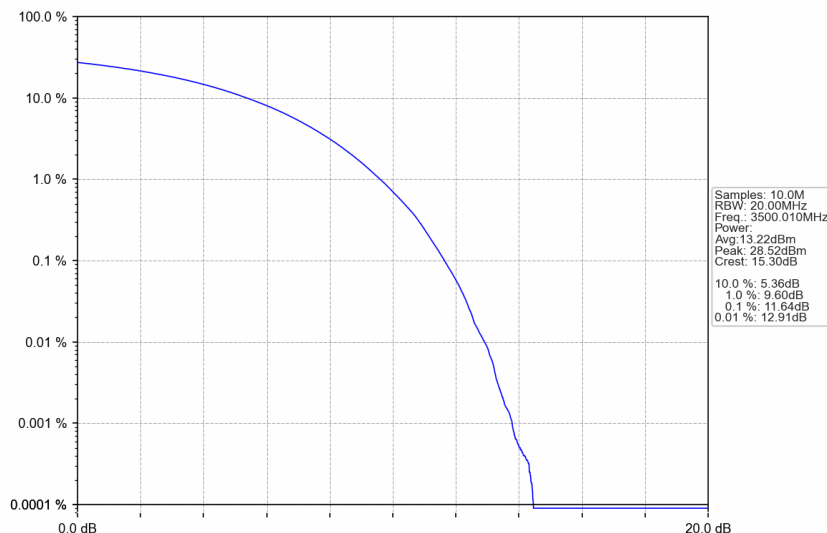
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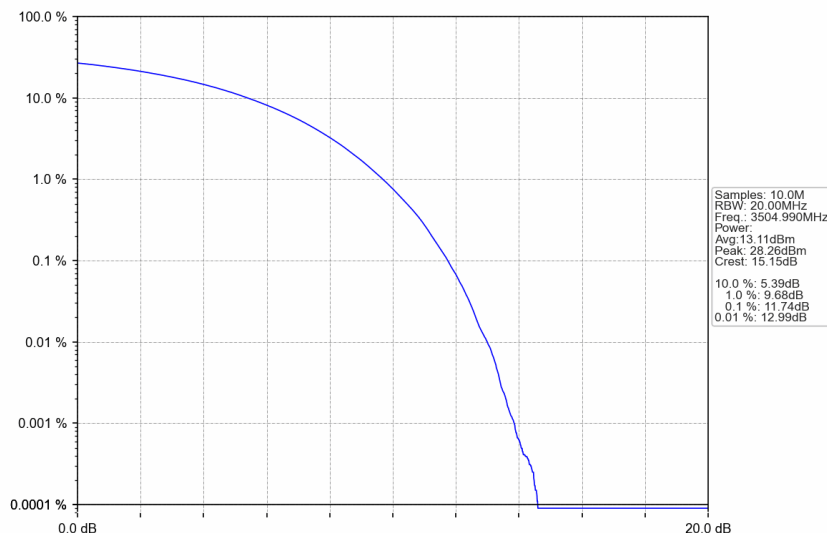
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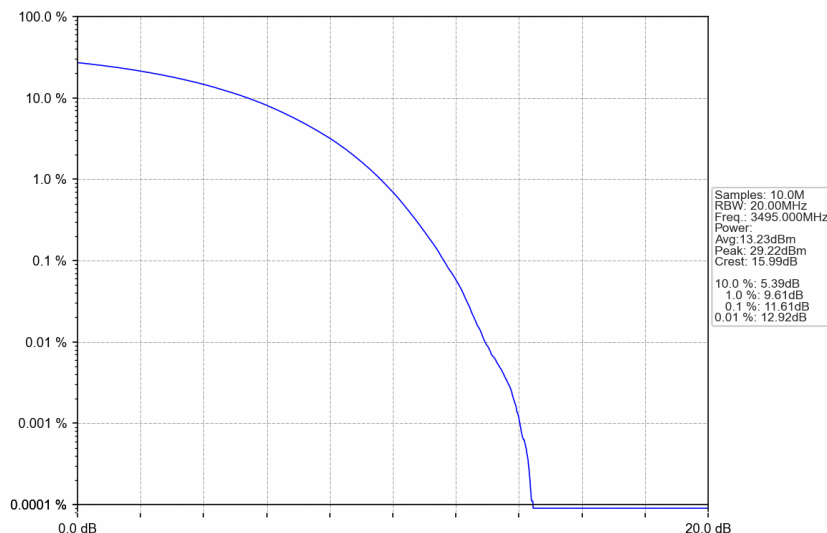
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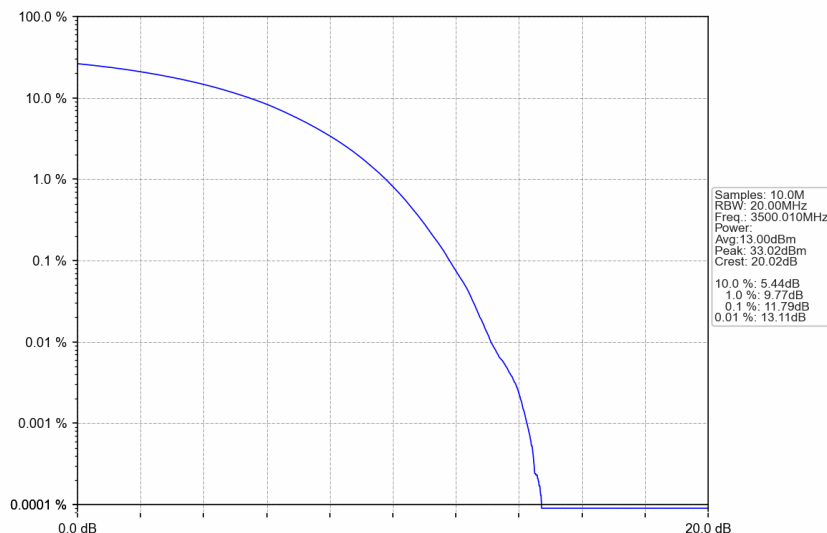
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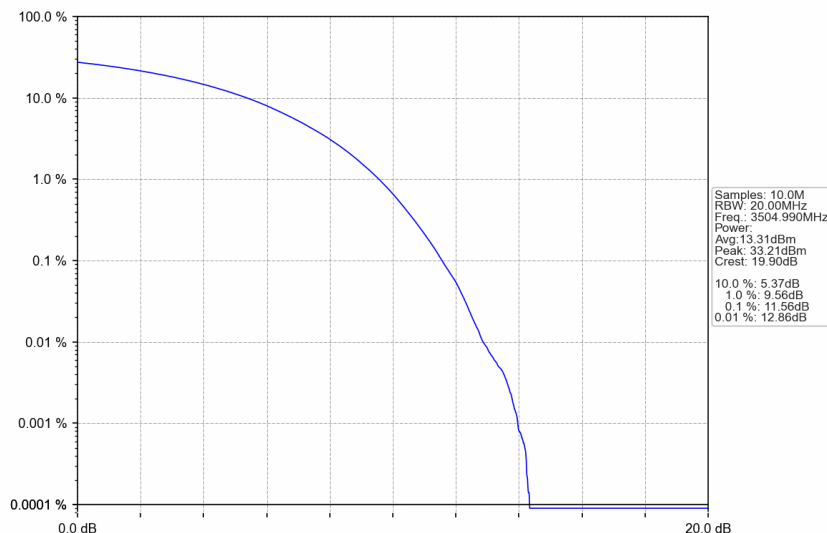
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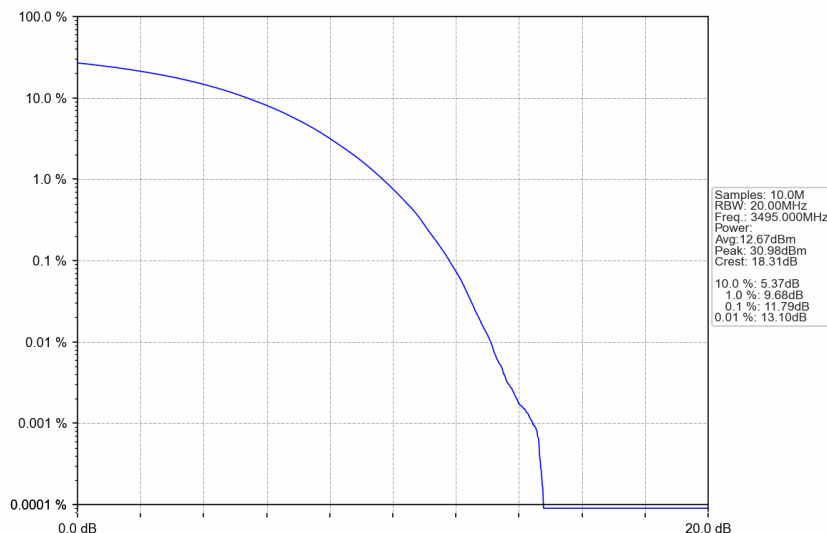
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n77d_30kHz_SISO_NTNV_90MHz_CP-OFDM 64 QAM_3495MHz_Outer_Full



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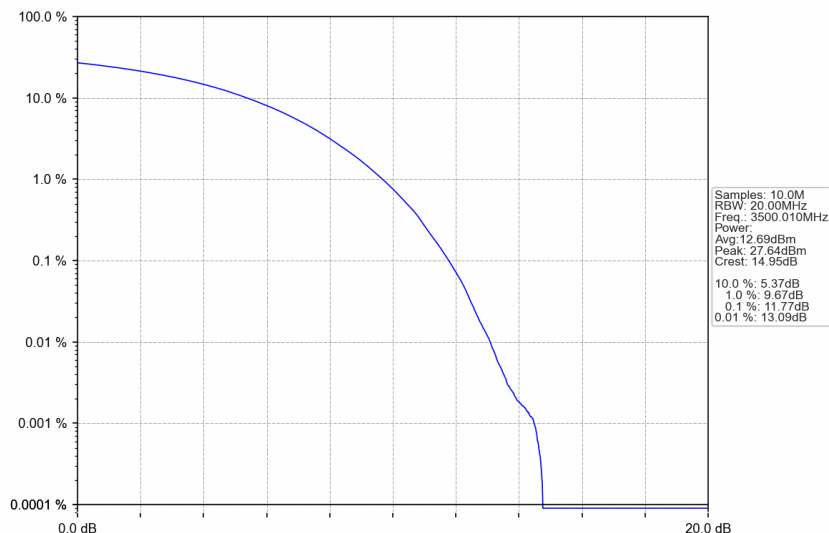
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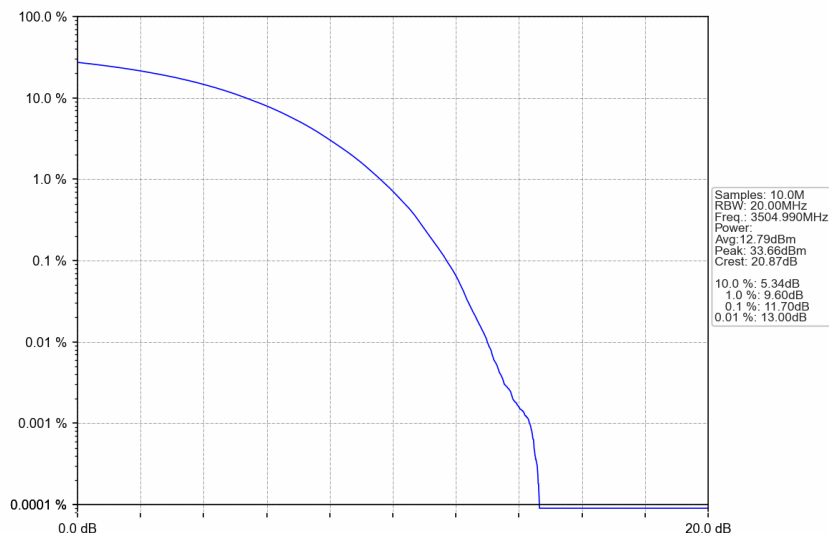
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n77d_30kHz_SISO_NTNV_90MHz_CP-OFDM 64 QAM_3500.01MHz_Outer_Full



n77d_30kHz_SISO_NTNV_90MHz_CP-OFDM 64 QAM_3504.99MHz_Outer_Full



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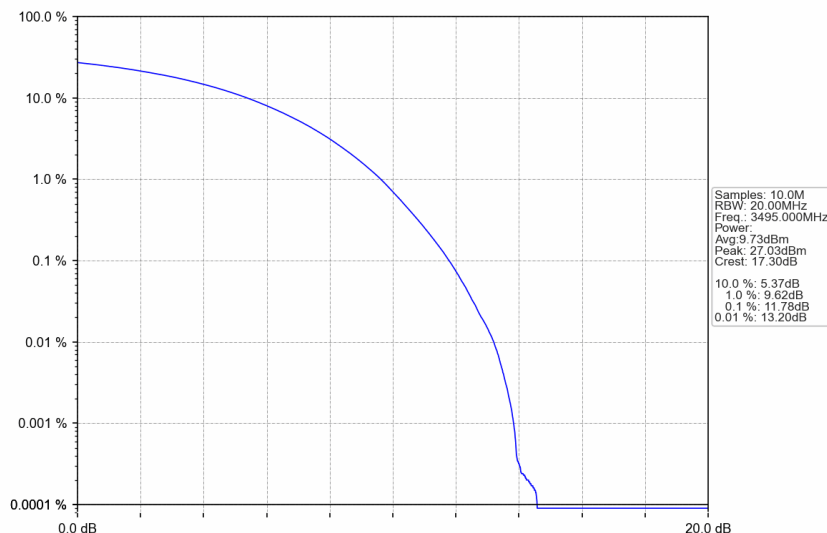
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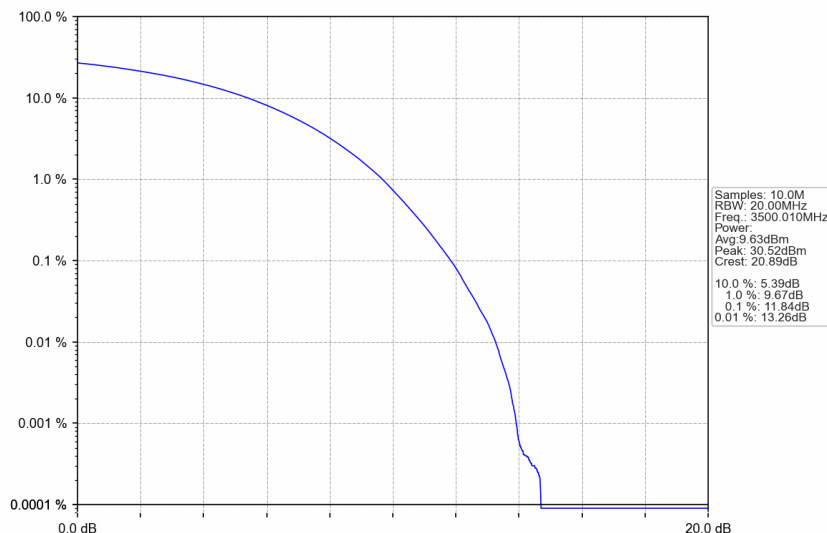
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n77d_30kHz_SISO_NTNV_90MHz_CP-OFDM 256 QAM_3495MHz_Outer_Full



n77d_30kHz_SISO_NTNV_90MHz_CP-OFDM 256 QAM_3500.01MHz_Outer_Full



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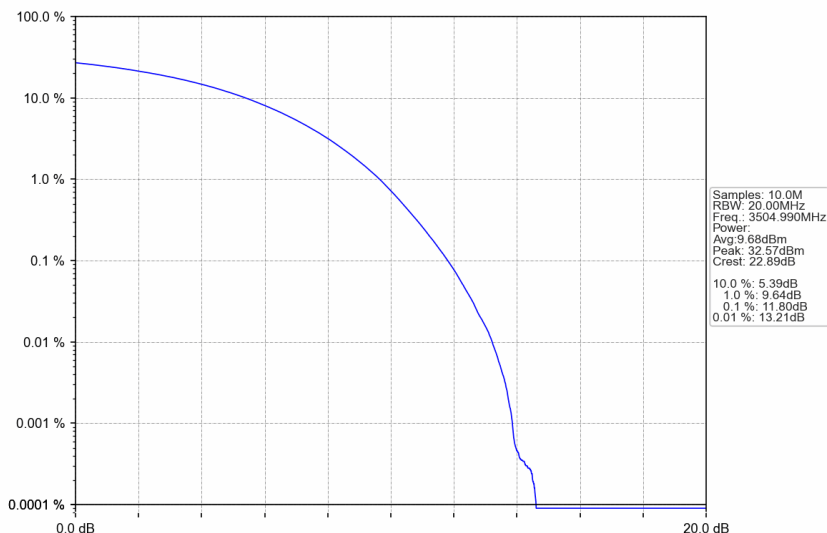
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5.19 30k_SISO_100MHz_NTNV

5.19.1 Test Result

5G NR n77d SCS=30kHz SISO 100MHz NTV							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant5	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3500.01	Outer_Full	12.81	/	/	<=13	Pass
	3500.01	Outer_Full	12.65	/	/	<=13	Pass
	3499.98	Outer_Full	11.68	/	/	<=13	Pass
DFT-s-OFDM QPSK	3500.01	Outer_Full	10.72	/	/	<=13	Pass
	3500.01	Outer_Full	10.29	/	/	<=13	Pass
	3499.98	Outer_Full	10.32	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3500.01	Outer_Full	10.94	/	/	<=13	Pass
	3500.01	Outer_Full	10.75	/	/	<=13	Pass
	3499.98	Outer_Full	10.93	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3500.01	Outer_Full	11.09	/	/	<=13	Pass
	3500.01	Outer_Full	11.01	/	/	<=13	Pass
	3499.98	Outer_Full	10.98	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3500.01	Outer_Full	11.37	/	/	<=13	Pass
	3500.01	Outer_Full	11.41	/	/	<=13	Pass
	3499.98	Outer_Full	11.17	/	/	<=13	Pass
CP-OFDM QPSK	3500.01	Outer_Full	11.48	/	/	<=13	Pass
	3500.01	Outer_Full	11.81	/	/	<=13	Pass
	3499.98	Outer_Full	11.57	/	/	<=13	Pass
CP-OFDM 16 QAM	3500.01	Outer_Full	11.74	/	/	<=13	Pass
	3500.01	Outer_Full	11.77	/	/	<=13	Pass
	3499.98	Outer_Full	11.85	/	/	<=13	Pass
CP-OFDM 64 QAM	3500.01	Outer_Full	11.66	/	/	<=13	Pass
	3500.01	Outer_Full	11.81	/	/	<=13	Pass
	3499.98	Outer_Full	11.57	/	/	<=13	Pass
CP-OFDM 256 QAM	3500.01	Outer_Full	11.59	/	/	<=13	Pass
	3500.01	Outer_Full	11.69	/	/	<=13	Pass
	3499.98	Outer_Full	11.56	/	/	<=13	Pass



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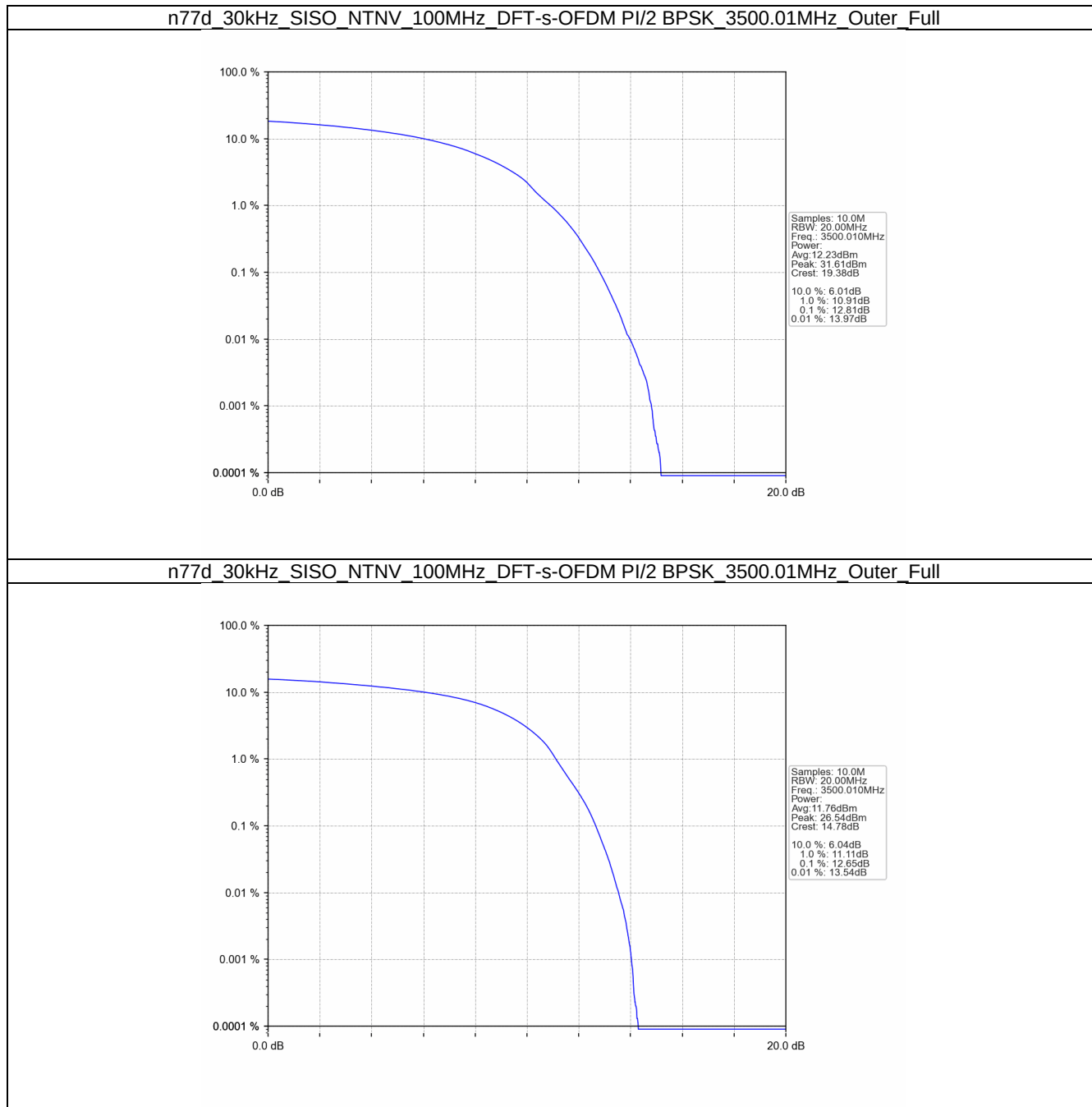
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5.19.2 Test Graph



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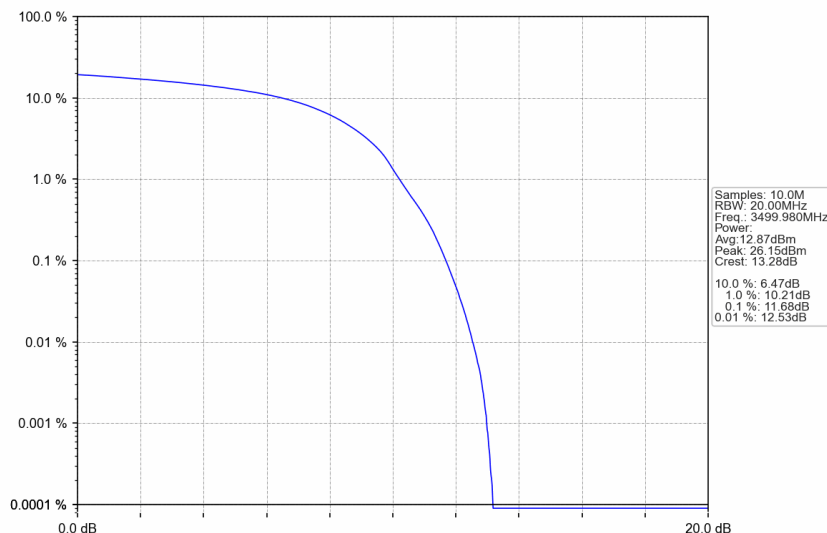
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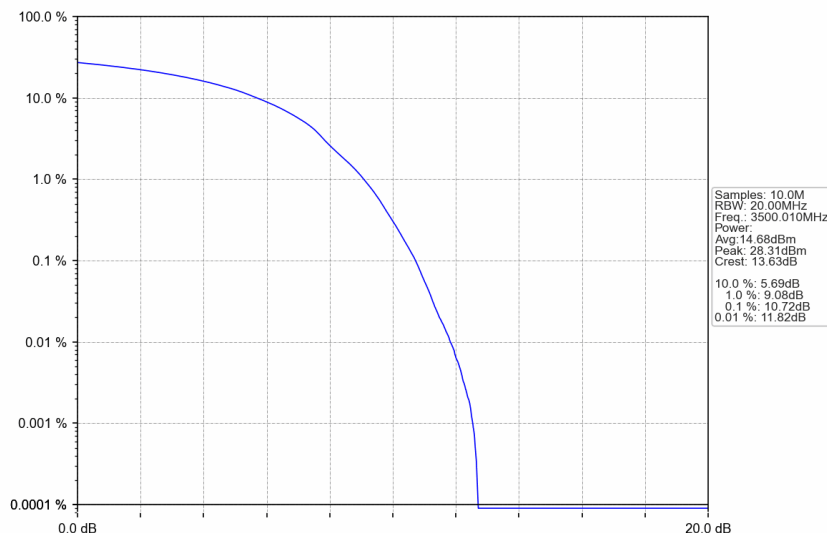
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n77d_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM PI/2 BPSK_3499.98MHz_Outer_Full



n77d_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM QPSK_3500.01MHz_Outer_Full



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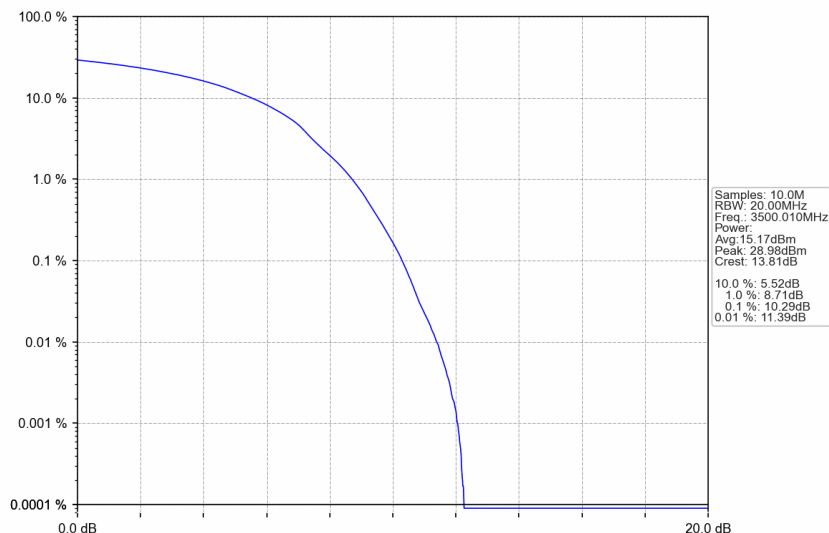
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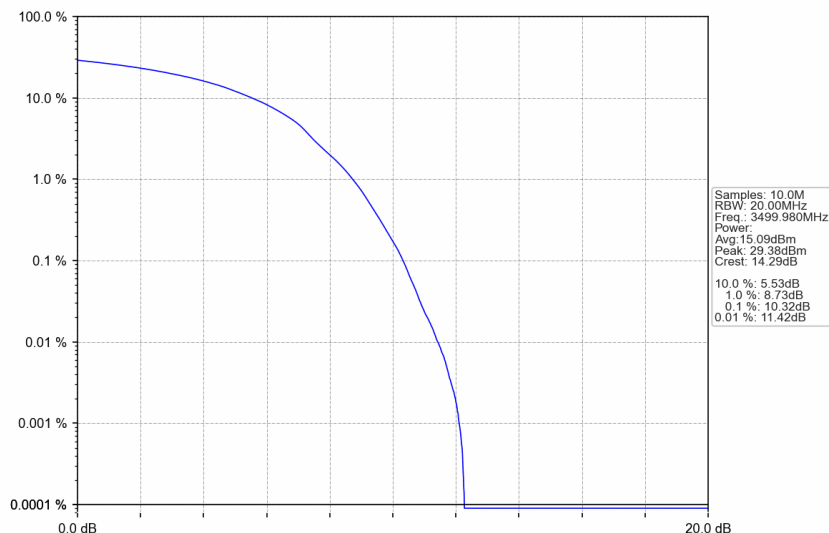
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n77d_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM_QPSK_3500.01MHz_Outer_Full



n77d_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM_QPSK_3499.98MHz_Outer_Full



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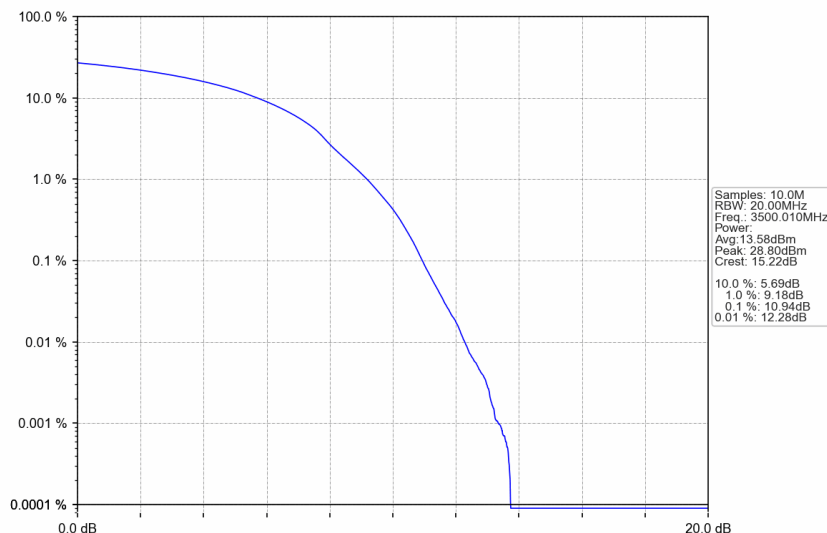
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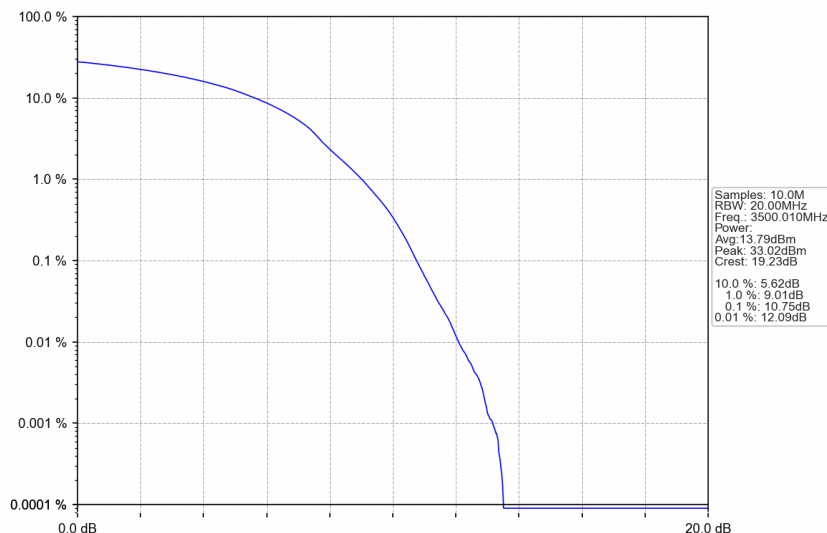
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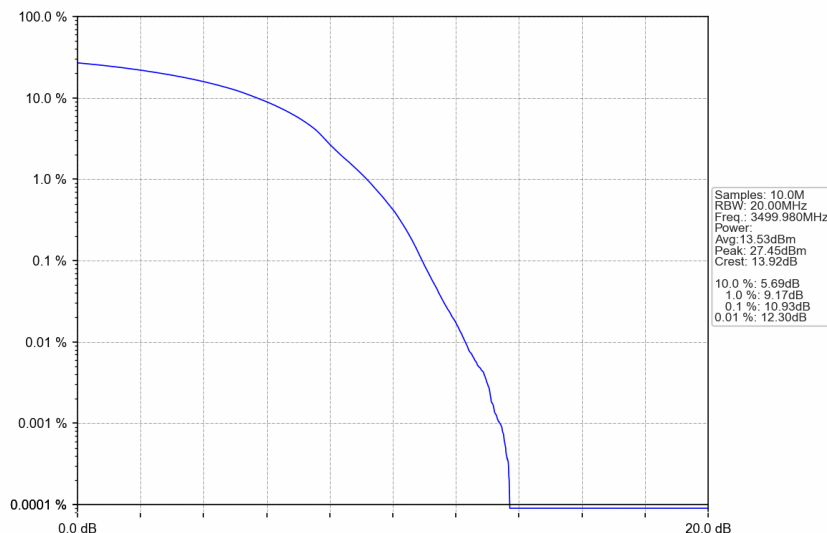
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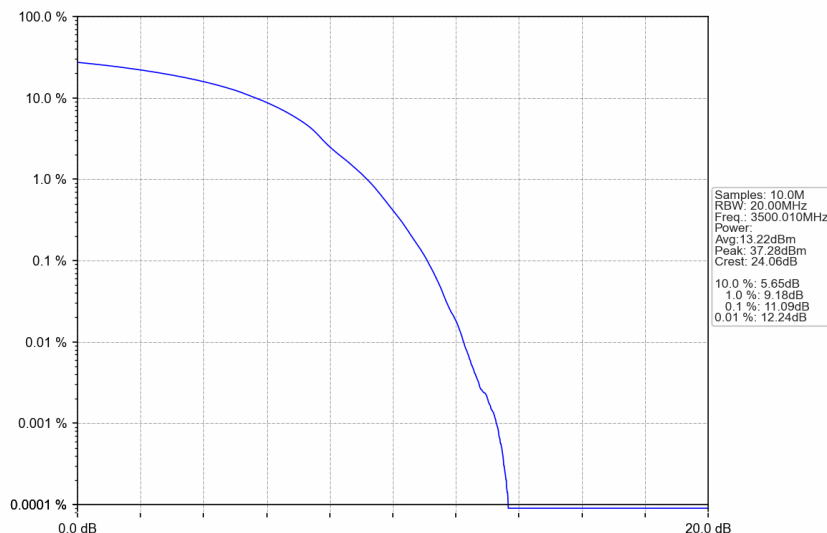
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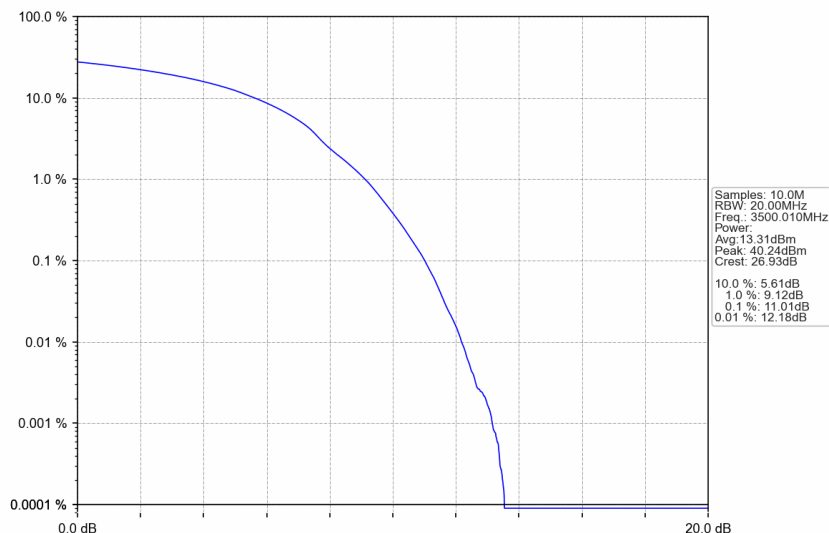
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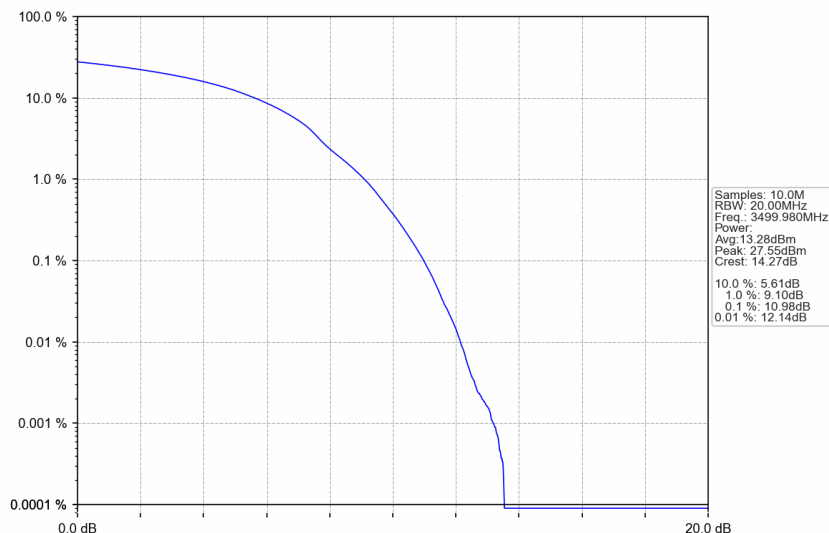
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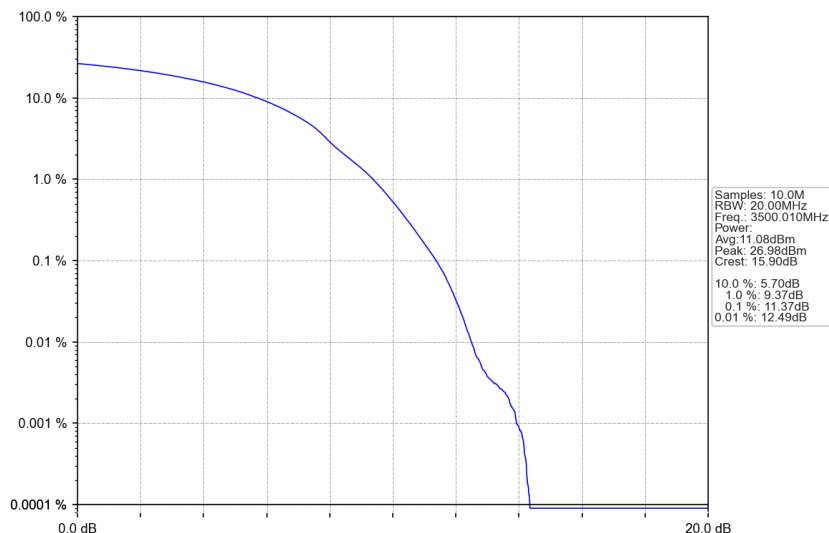
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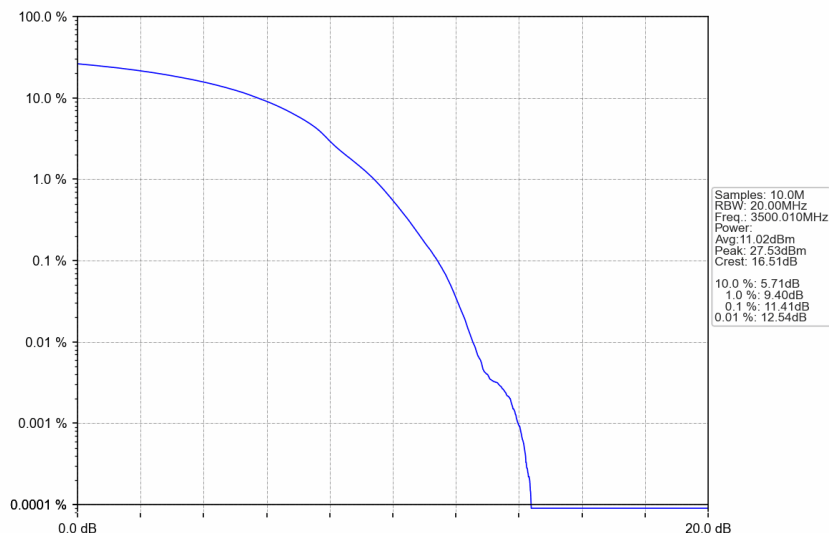
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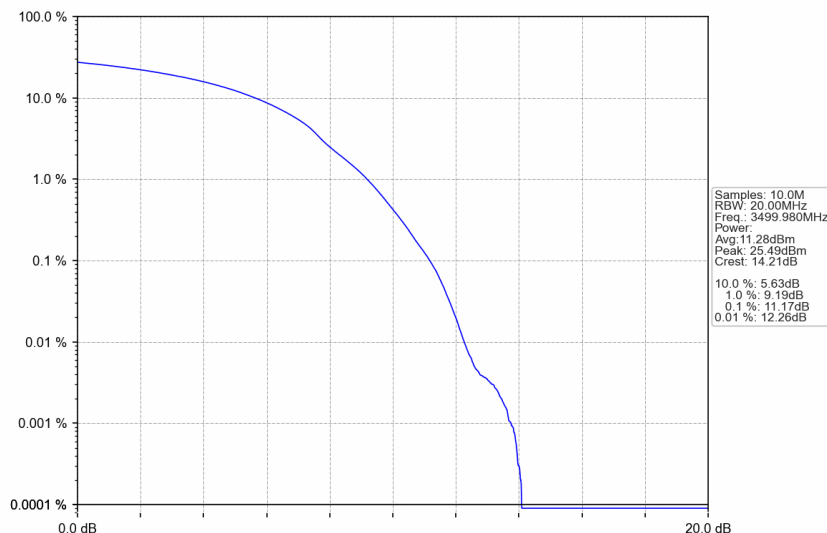
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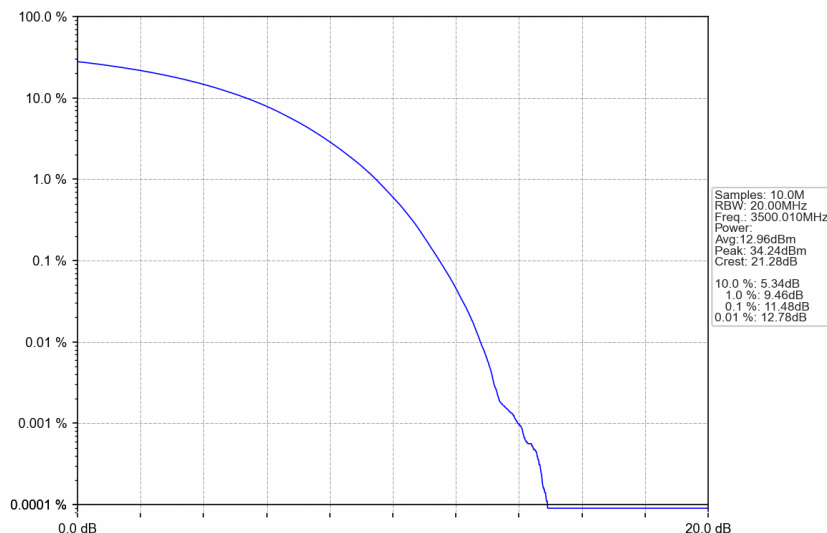
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n77d_30kHz_SISO_NTNV_100MHz_CP-OFDM_QPSK_3500.01MHz_Outer_Full



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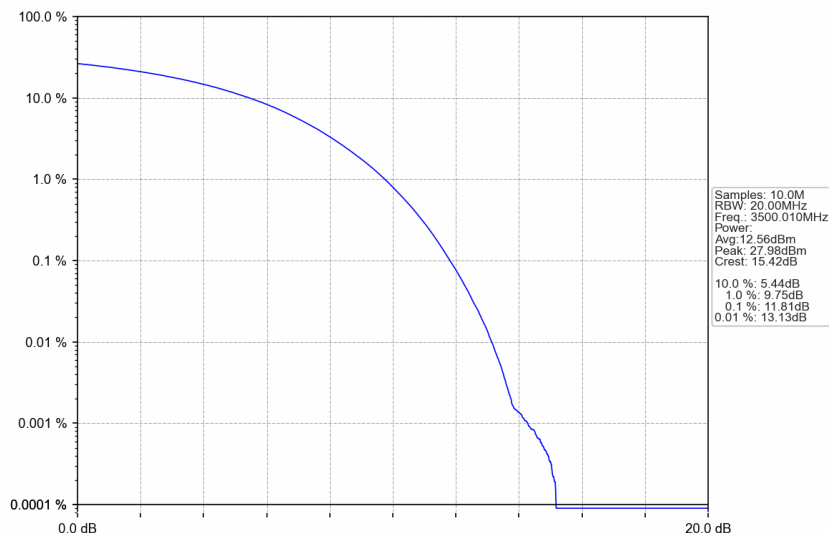
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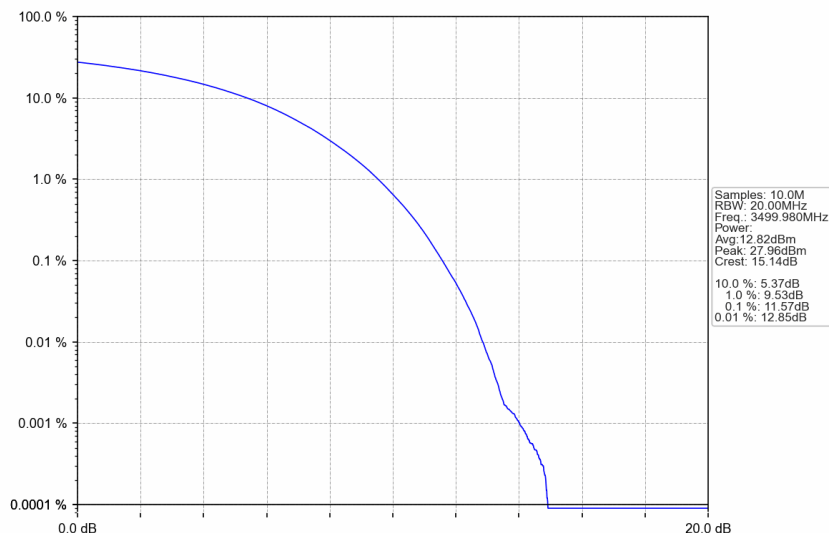
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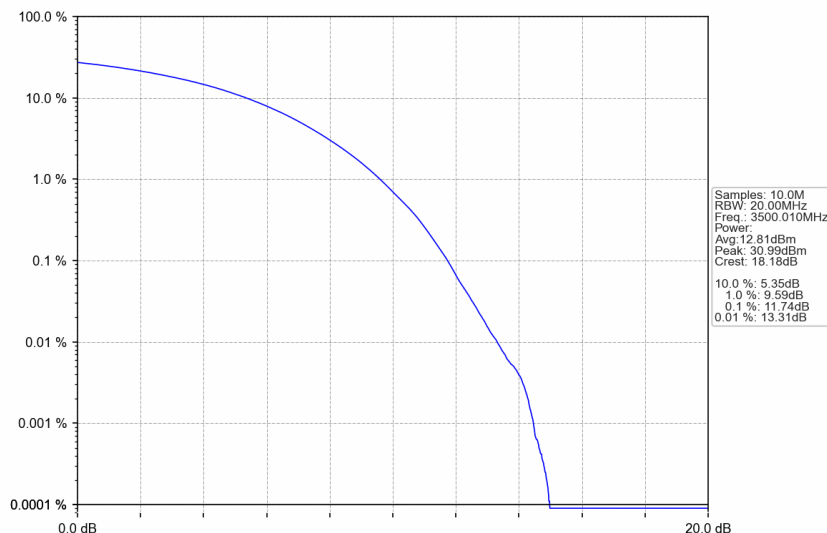
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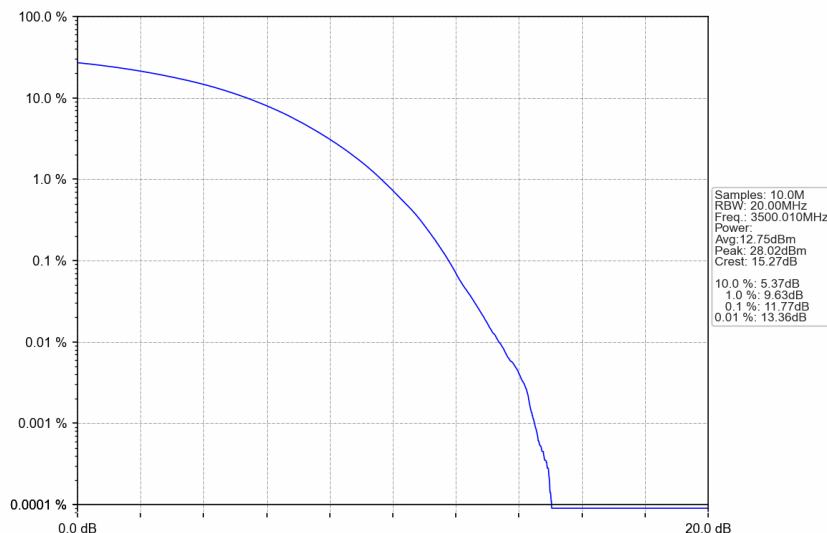
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n77d_30kHz_SISO_NTNV_100MHz_CP-OFDM_16_QAM_3500.01MHz_Outer_Full



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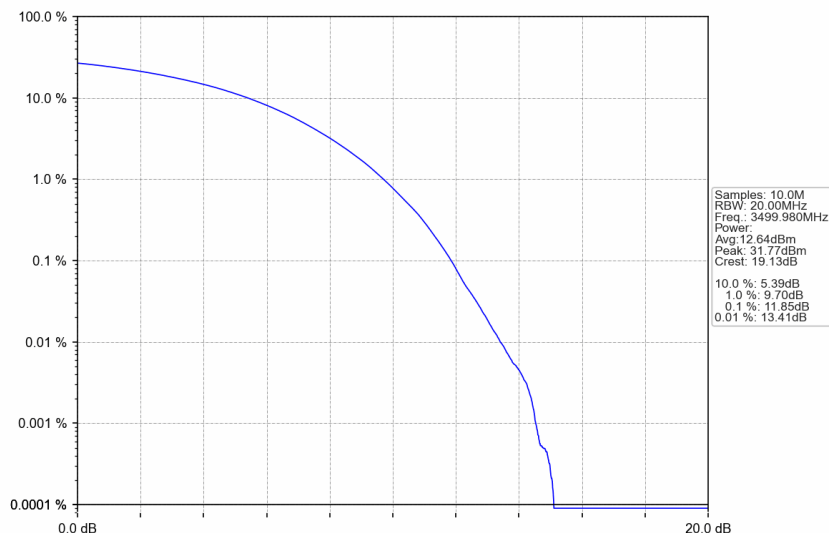
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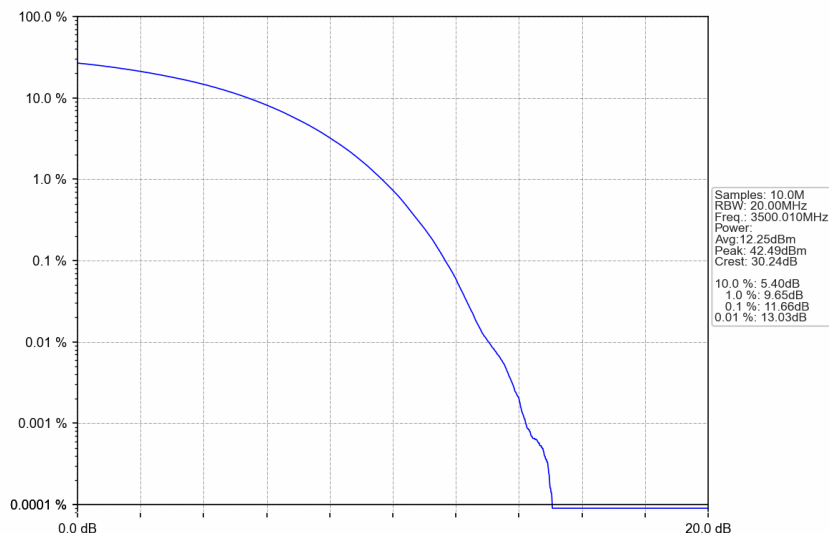
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n77d_30kHz_SISO_NTNV_100MHz_CP-OFDM 64 QAM_3500.01MHz_Outer_Full



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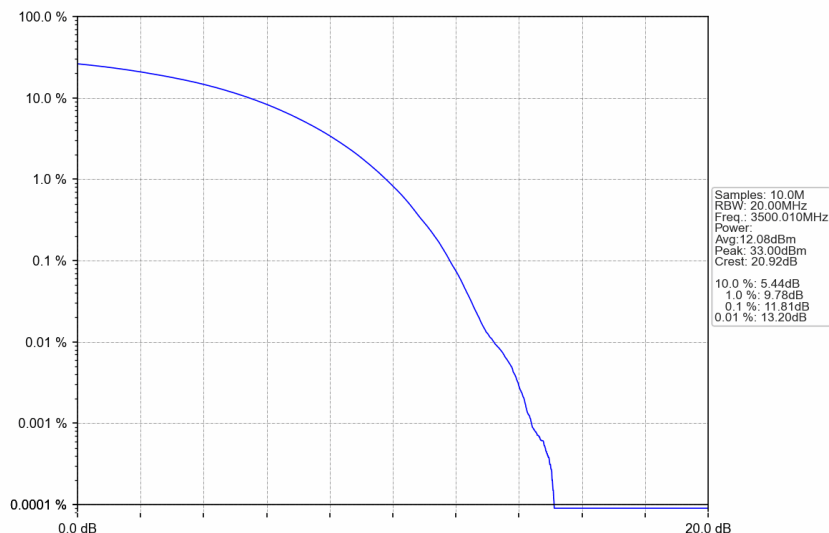
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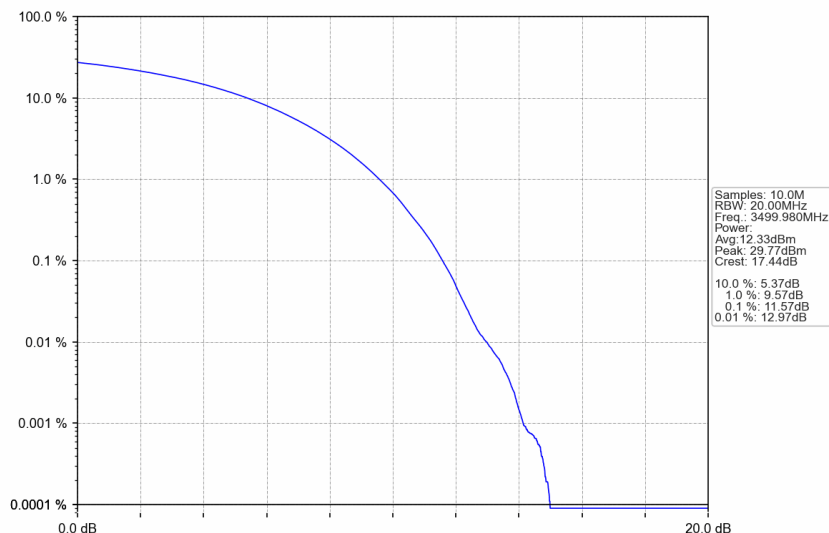
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n77d_30kHz_SISO_NTNV_100MHz_CP-OFDM 64 QAM_3500.01MHz_Outer_Full



n77d_30kHz_SISO_NTNV_100MHz_CP-OFDM 64 QAM_3499.98MHz_Outer_Full



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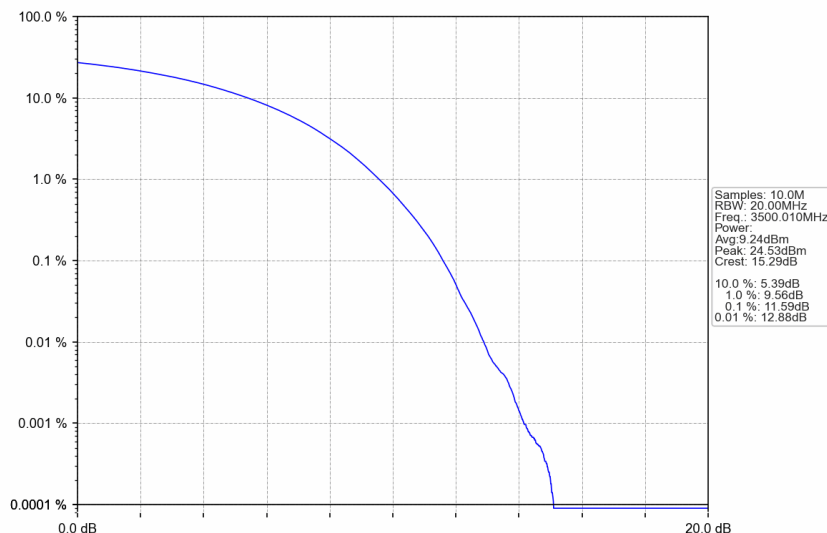
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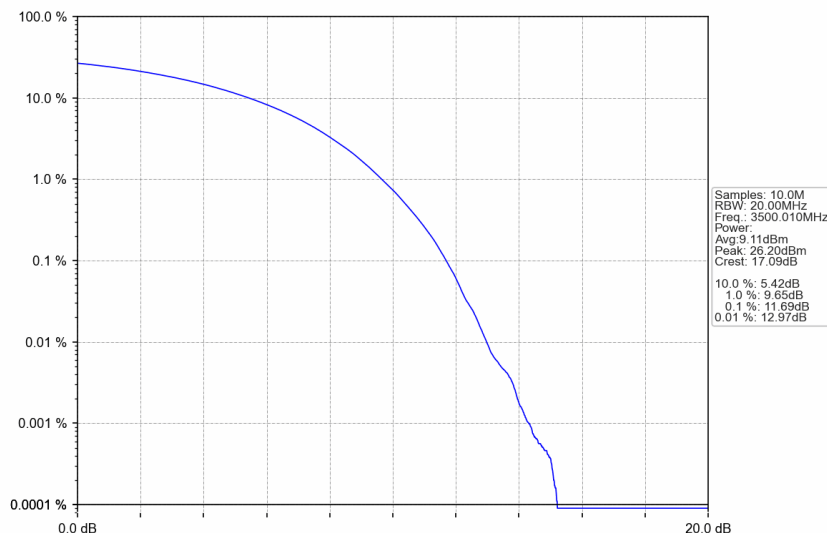
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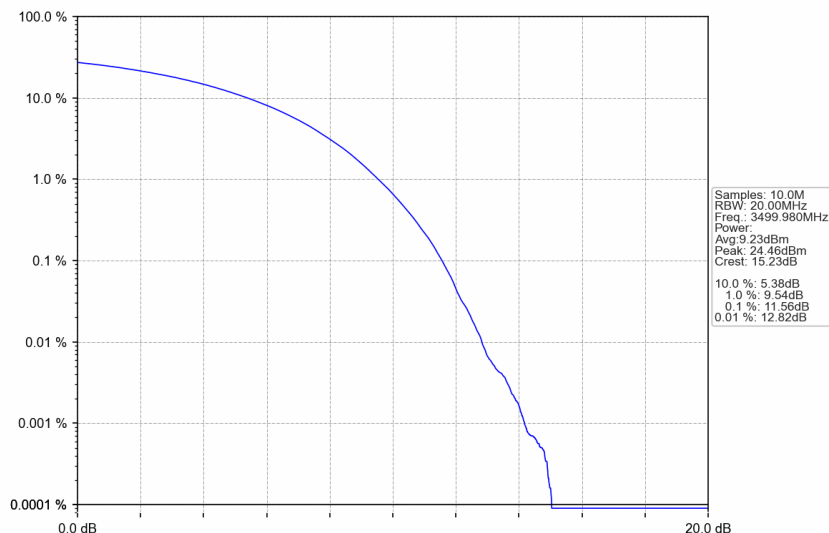
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6. Spurious Emission & Band Edges

6.1 15k_SISO_10MHz_NTNV

6.1.1 Test Result

5G NR n77d SCS=15kHz SISO 10MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission			
			Ant5	Ant2	Sum	Limit
DFT-s-OFDM PI/2 BPSK	3455.01	Edge_1RB_Left	Refer To Test Graph			
		Outer_Full	Refer To Test Graph			
		Inner_1RB_Left	Refer To Test Graph			
	3499.995	Edge_1RB_Left	Refer To Test Graph			
		Edge_1RB_Right	Refer To Test Graph			
		Outer_Full	Refer To Test Graph			
DFT-s-OFDM QPSK	3455.01	Edge_1RB_Left	Refer To Test Graph			
		Outer_Full	Refer To Test Graph			
		Inner_1RB_Left	Refer To Test Graph			
	3499.995	Edge_1RB_Left	Refer To Test Graph			
		Edge_1RB_Right	Refer To Test Graph			
		Outer_Full	Refer To Test Graph			
CP-OFDM QPSK	3455.01	Edge_1RB_Left	Refer To Test Graph			
		Outer_Full	Refer To Test Graph			
		Inner_1RB_Left	Refer To Test Graph			
	3499.995	Edge_1RB_Left	Refer To Test Graph			
		Edge_1RB_Right	Refer To Test Graph			
		Outer_Full	Refer To Test Graph			
	3544.995	Inner_1RB_Right	Refer To Test Graph			
		Outer_Full	Refer To Test Graph			
		Inner_1RB_Right	Refer To Test Graph			



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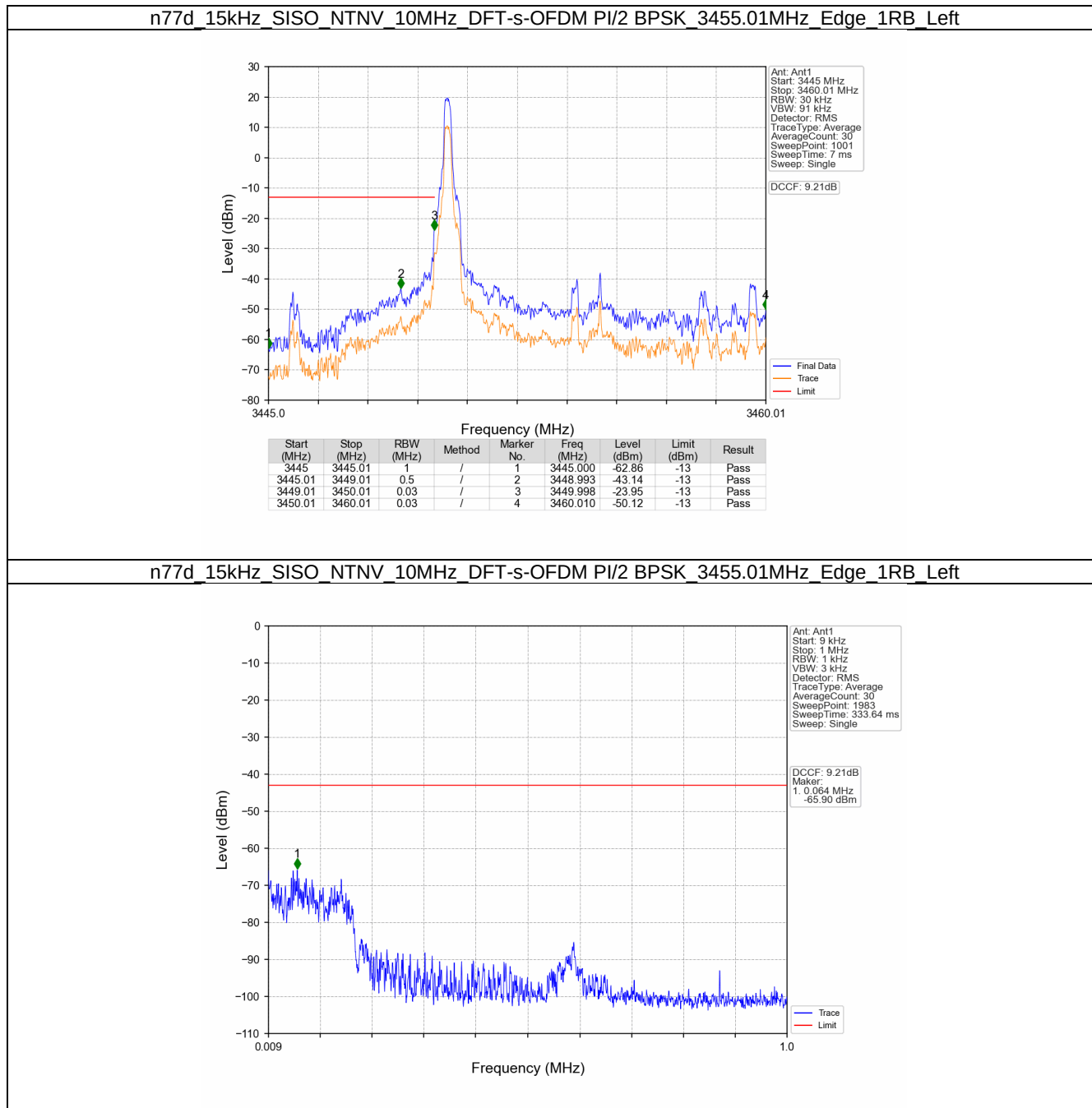
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6.1.2 Test Graph



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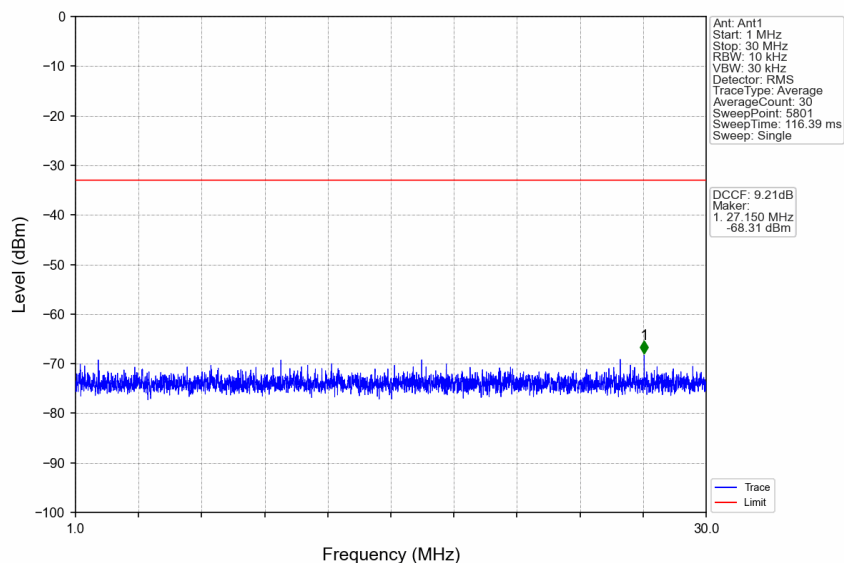


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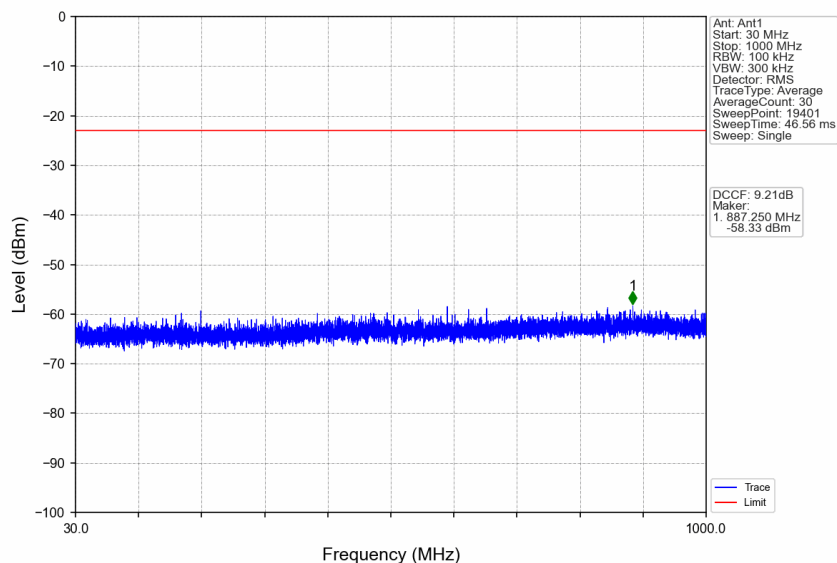
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n77d_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_3455.01MHz_Edge_1RB_Left



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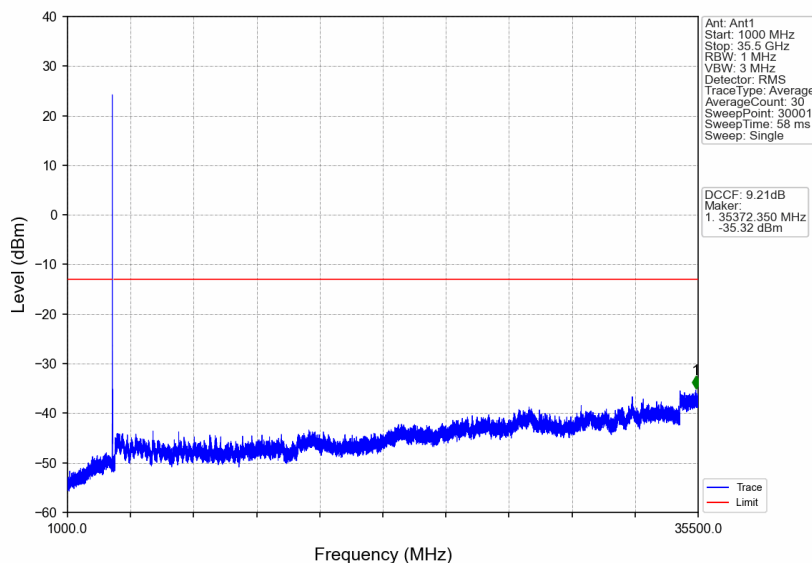
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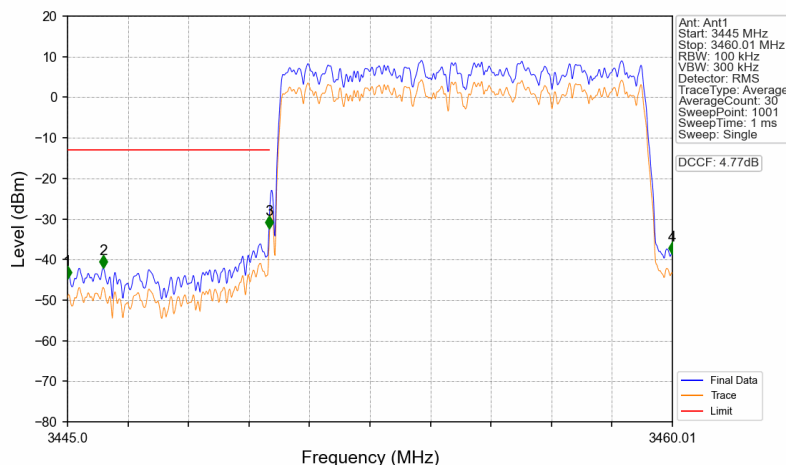
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n77d_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_3455.01MHz_Edge_1RB_Left



n77d_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_3455.01MHz_Outer_Full



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3445	3445.01	1	/	1	3445.000	-44.70	-13	Pass
3445.01	3449.01	0.5	/	2	3445.886	-42.10	-13	Pass
3449.01	3450.01	0.1	/	3	3449.998	-32.41	-13	Pass
3450.01	3460.01	0.1	/	4	3460.010	-38.73	-13	Pass



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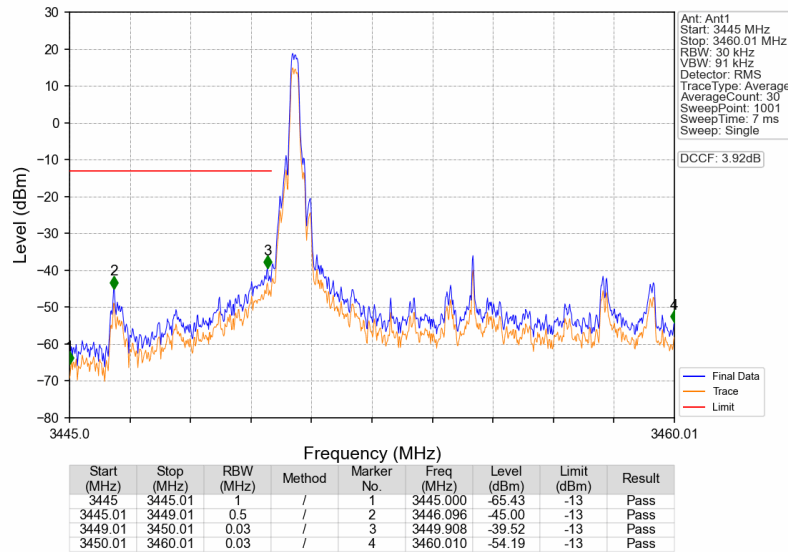
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Report No.: SEWM2311000456RG02

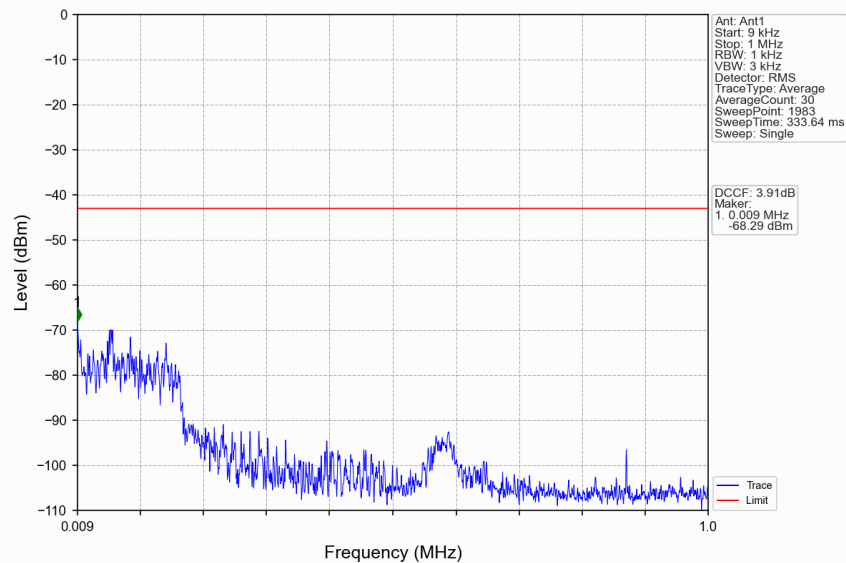
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n77d_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_3455.01MHz_Inner_1RB_Left



n77d_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_3499.995MHz_Edge_1RB_Left



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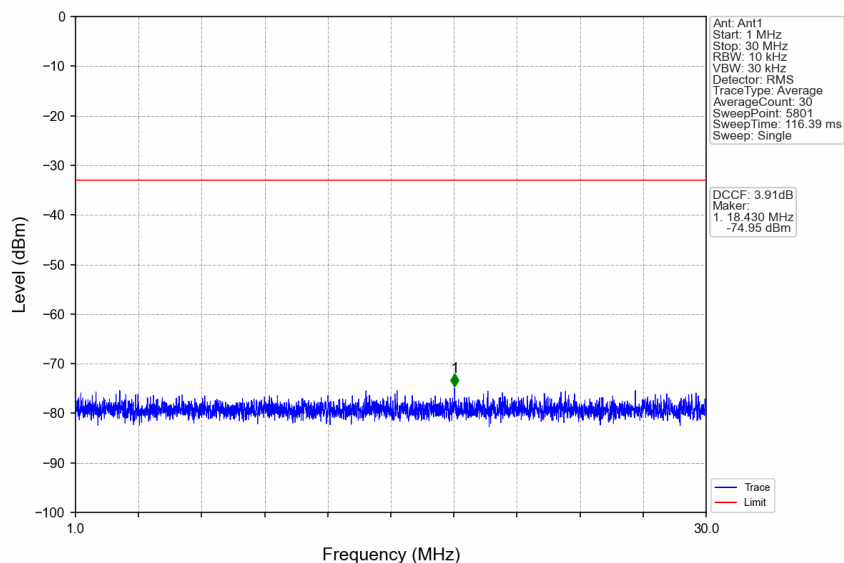
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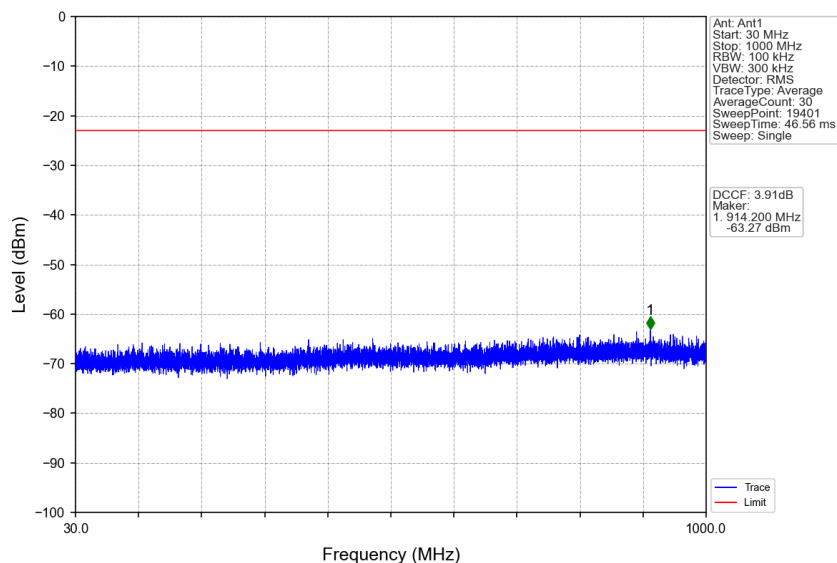
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n77d_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_3499.995MHz_Edge_1RB_Left



n77d_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_3499.995MHz_Edge_1RB_Left



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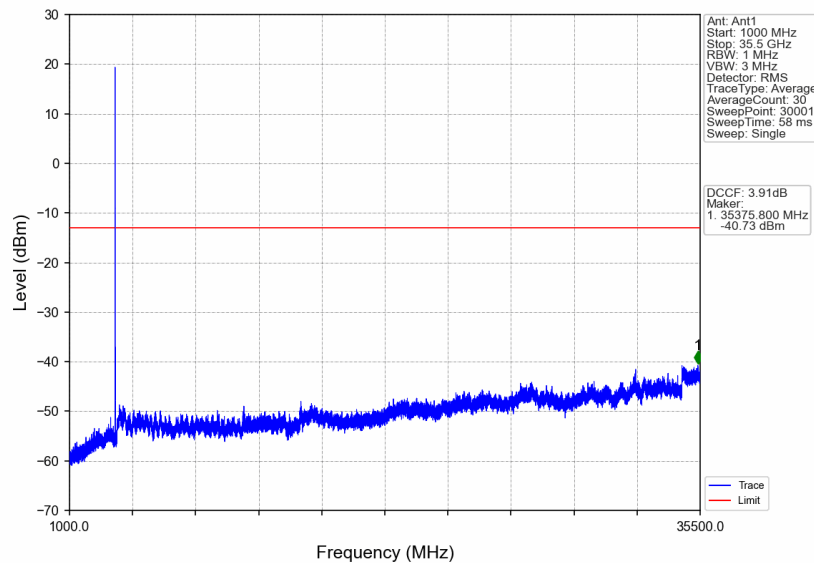
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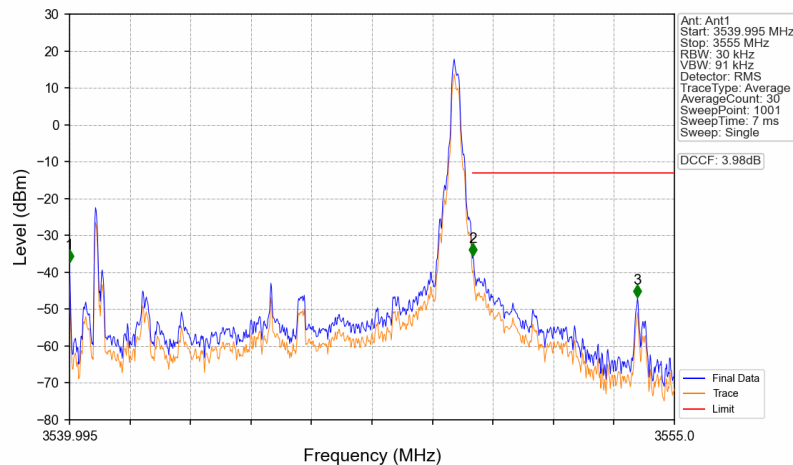
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n77d_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_3499.995MHz_Edge_1RB_Left



n77d_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_3544.995MHz_Edge_1RB_Right



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3539.995	3549.995	0.03	/	1	3539.995	-37.36	-13	Pass
3549.995	3549.995	0.03	/	/	/	/	/	/
3549.995	3550.995	0.03	/	2	3550.003	-35.60	-13	Pass
3550.995	3554.995	0.5	/	3	3554.085	-46.88	-13	Pass



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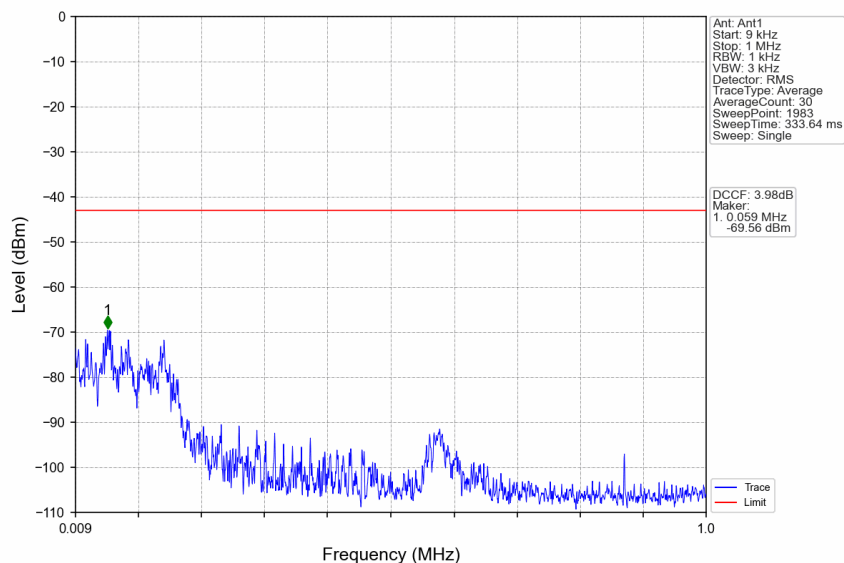
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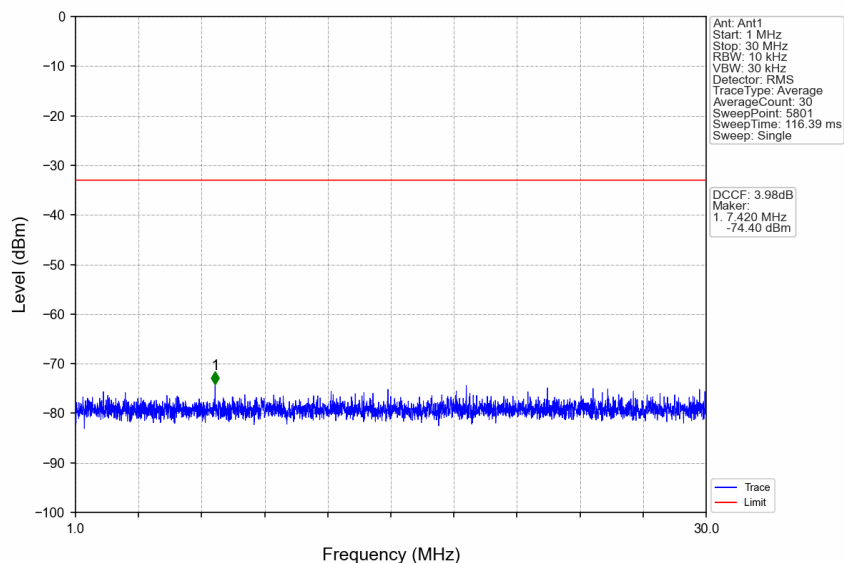
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n77d_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK 3544.995MHz_Edge_1RB_Right



n77d_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK 3544.995MHz_Edge_1RB_Right



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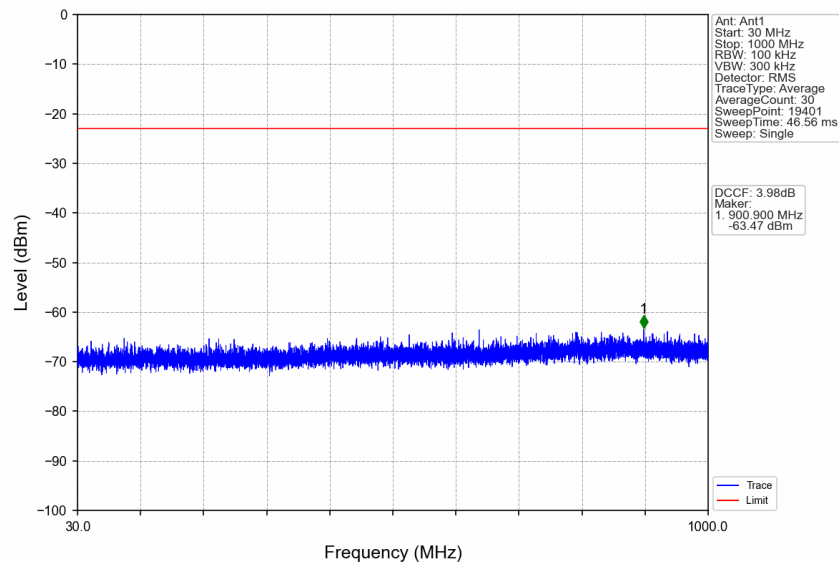


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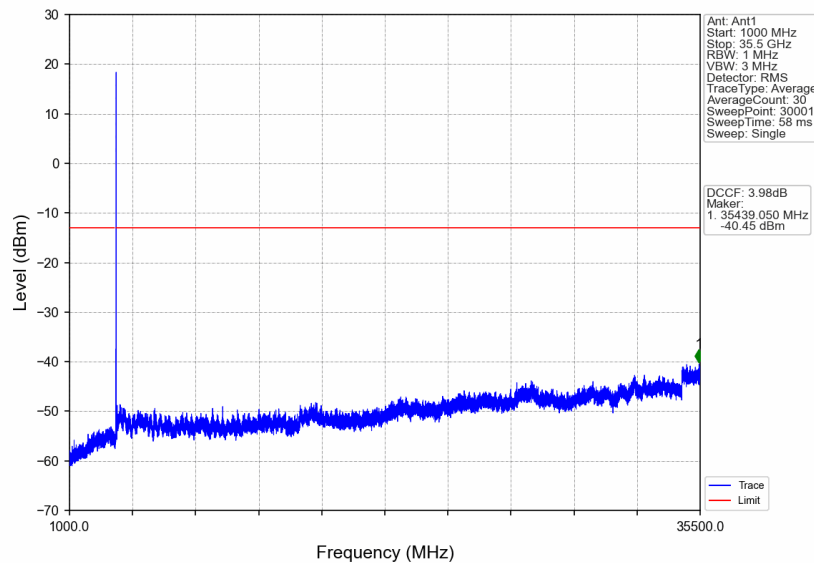
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n77d_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK 3544.995MHz_Edge_1RB_Right



n77d_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK 3544.995MHz_Edge_1RB_Right



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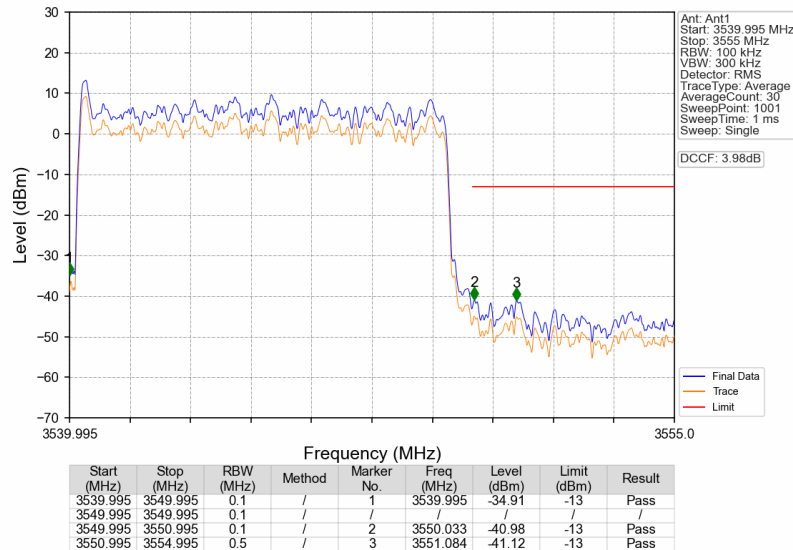
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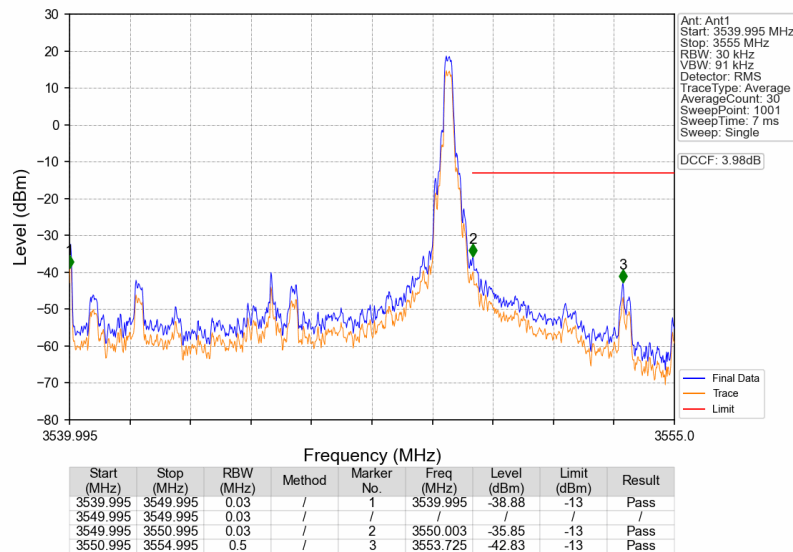
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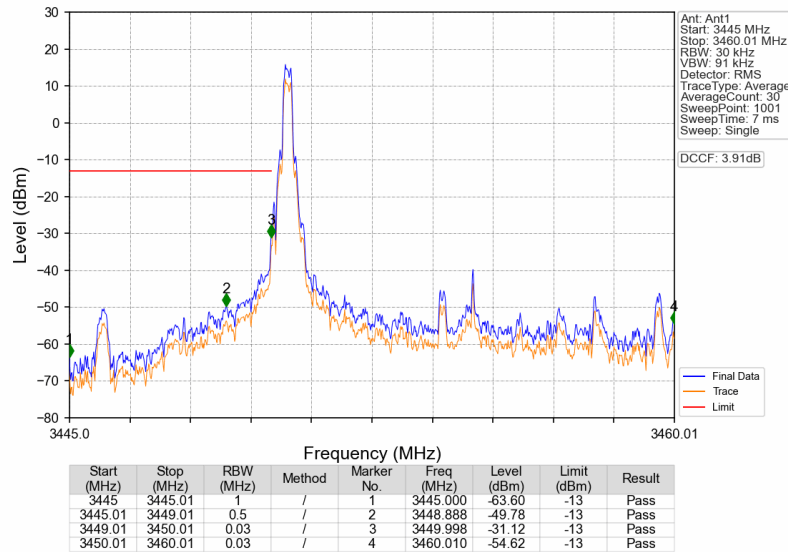
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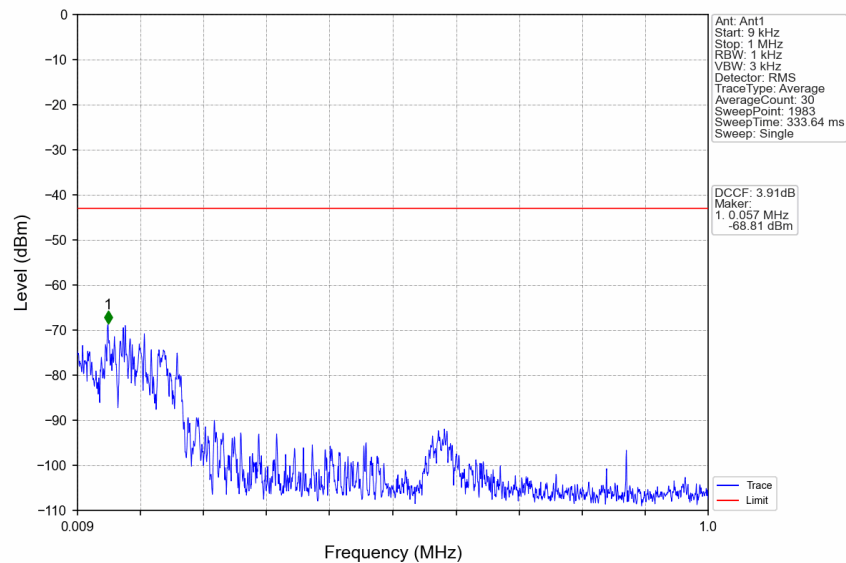
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n77d_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_QPSK_3455.01MHz_Edge_1RB_Left



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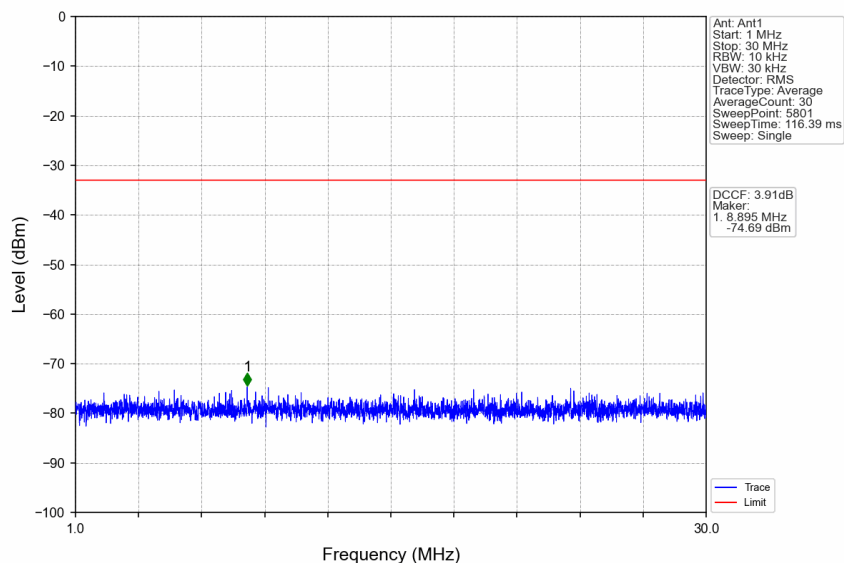
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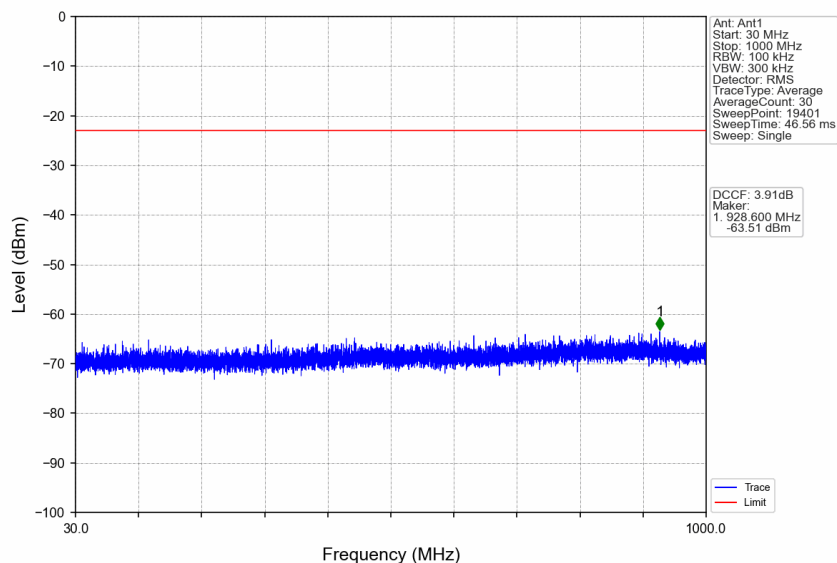
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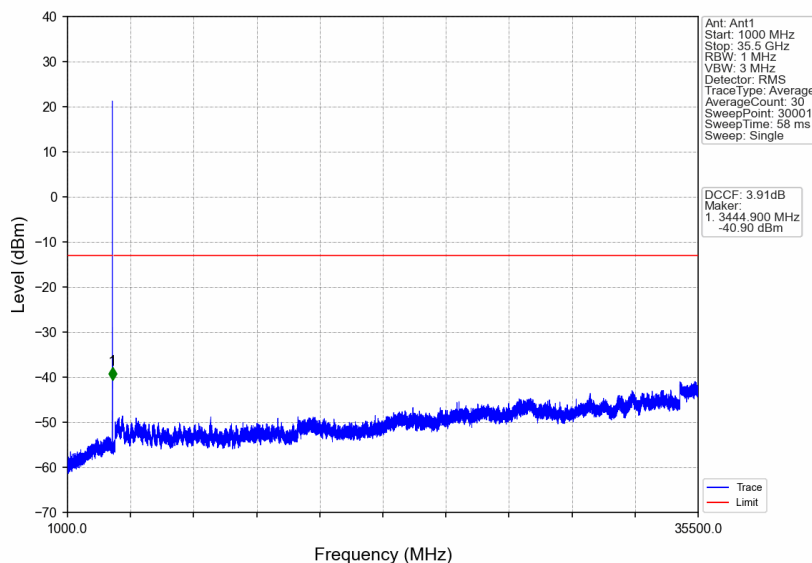
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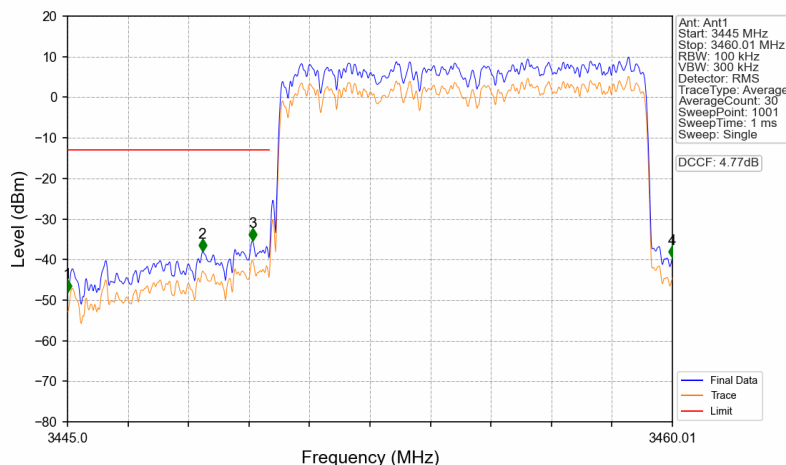
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n77d_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_QPSK_3455.01MHz_Outer_Full



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3445	3445.01	1	/	1	3445.000	-48.00	-13	Pass
3445.01	3449.01	0.5	/	2	3448.347	-38.09	-13	Pass
3449.01	3450.01	0.1	/	3	3449.593	-35.45	-13	Pass
3450.01	3460.01	0.1	/	4	3460.010	-39.67	-13	Pass



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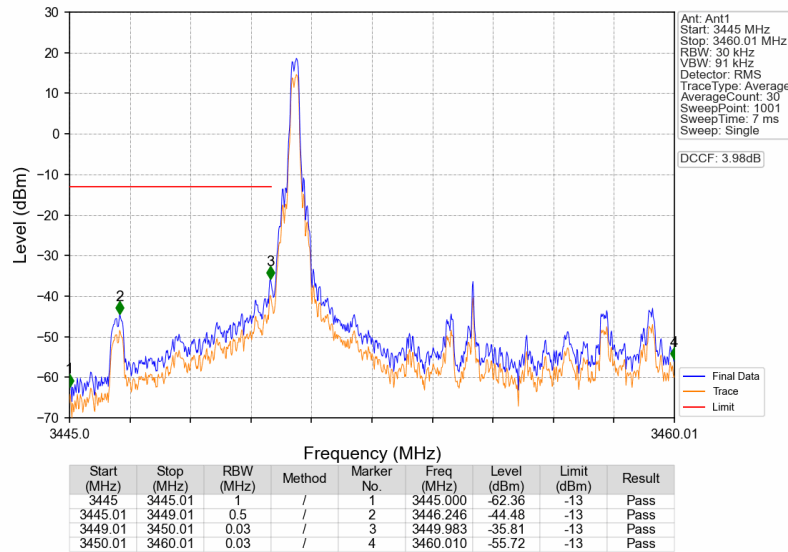
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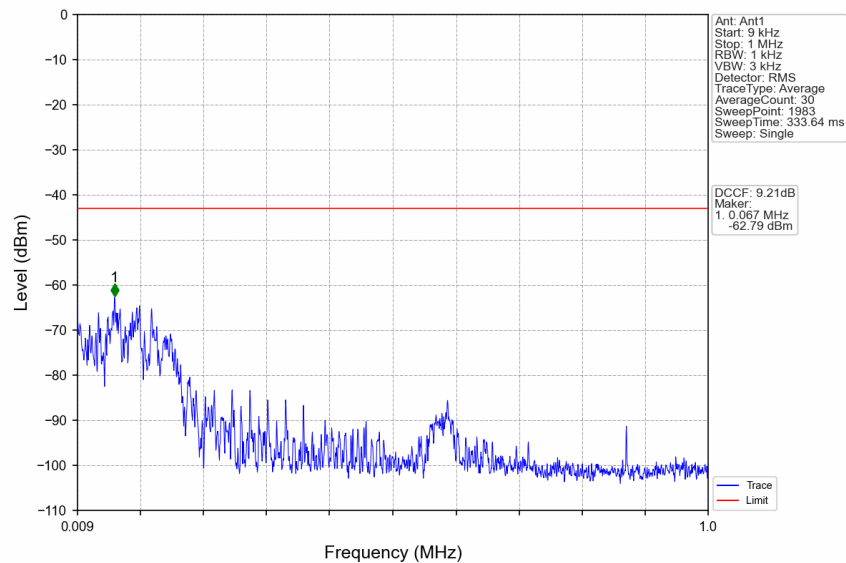
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n77d_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_QPSK_3455.01MHz_Inner_1RB_Left



n77d_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_QPSK_3499.995MHz_Edge_1RB_Left



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