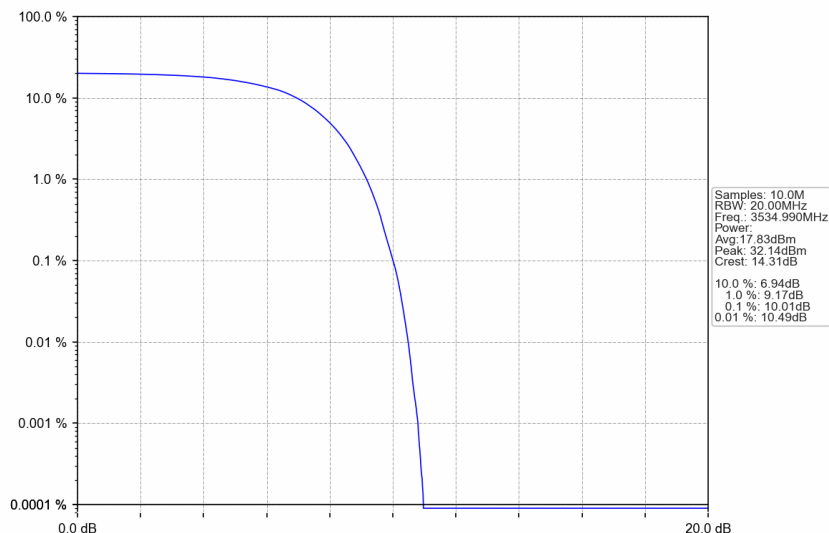


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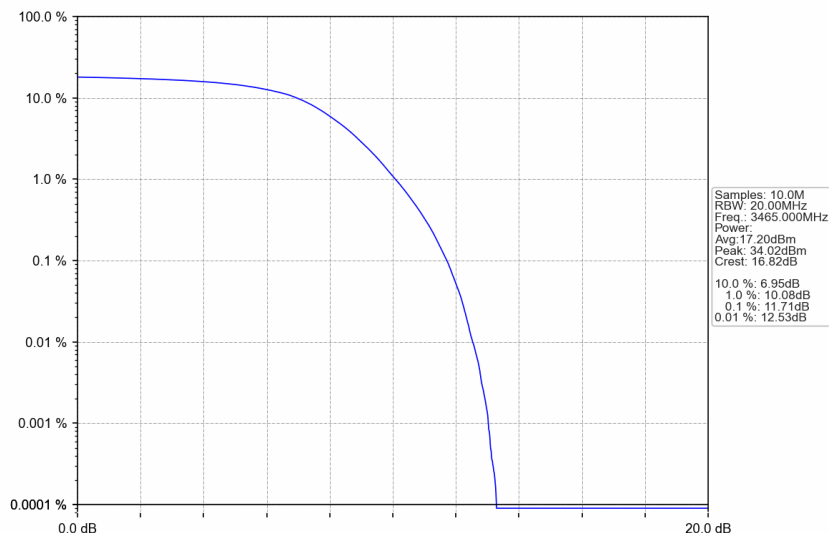
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n77d_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM PI/2 BPSK_3534.99MHz_Outer_Full



n77d_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM QPSK_3465MHz_Outer_Full



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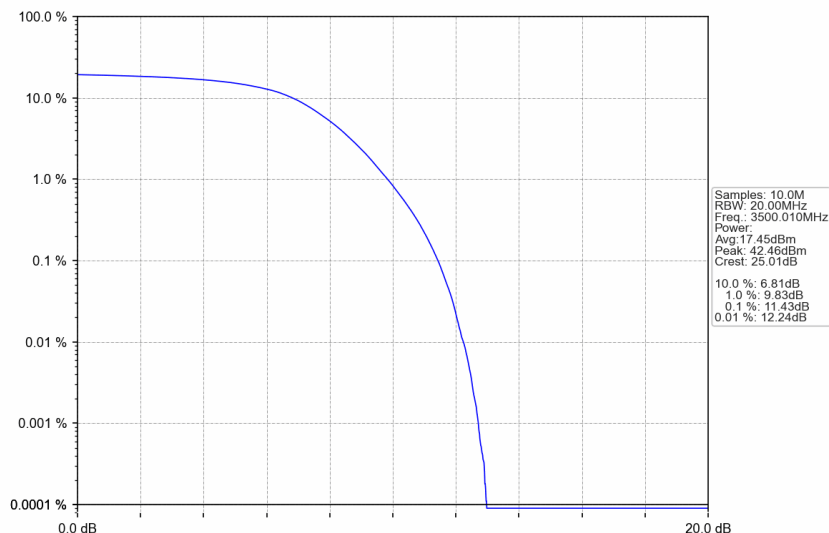
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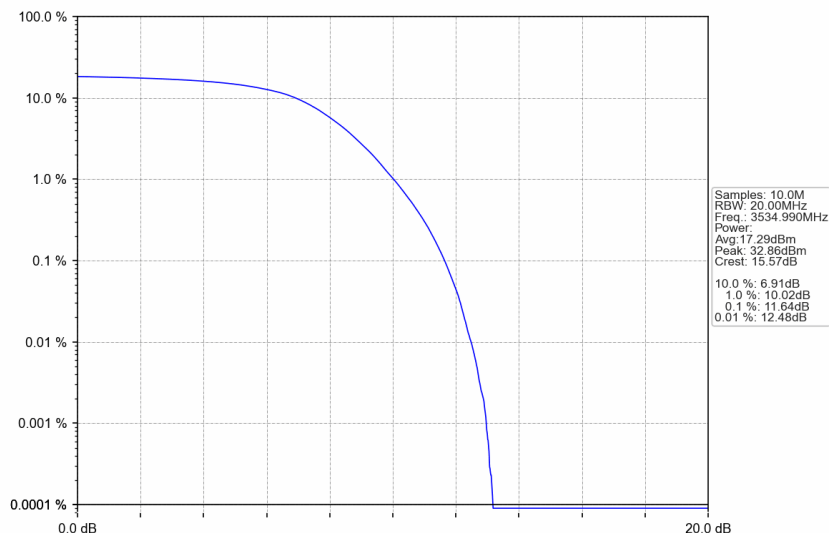
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n77d_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM QPSK_3500.01MHz_Outer_Full



n77d_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM QPSK_3534.99MHz_Outer_Full



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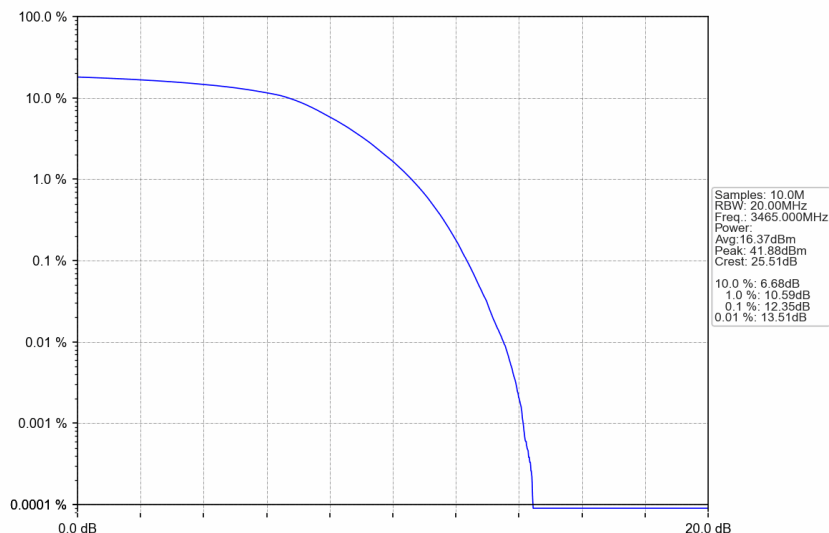
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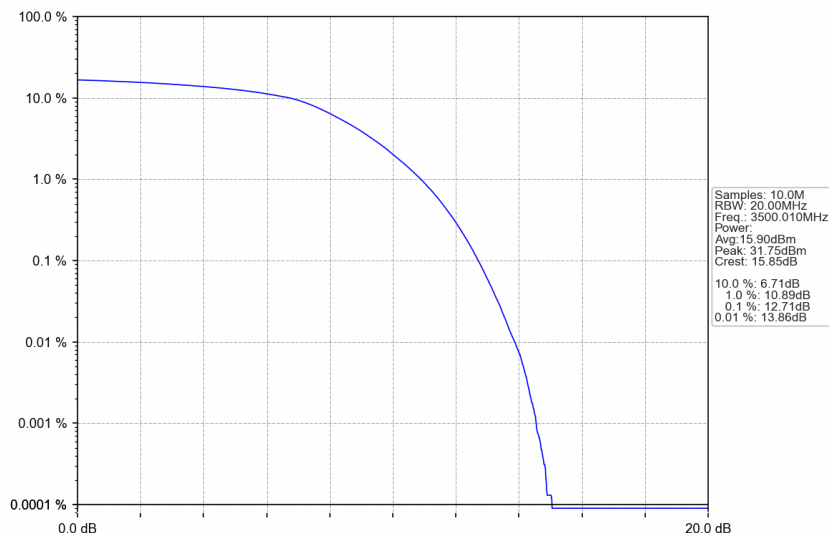
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n77d_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_16_QAM_3465MHz_Outer_Full



n77d_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_16_QAM_3500.01MHz_Outer_Full



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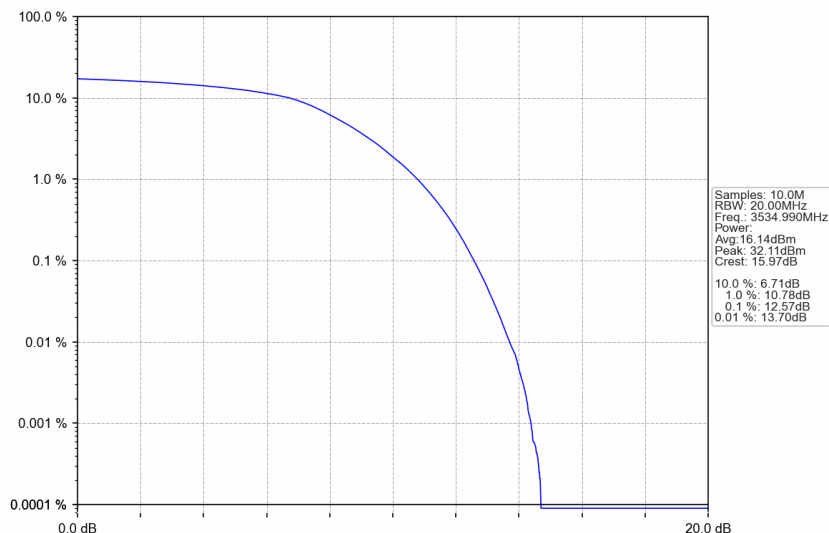
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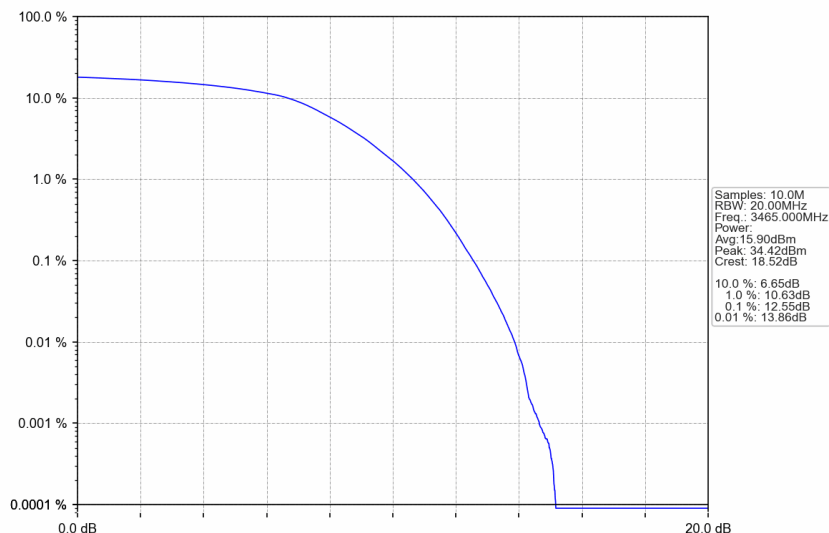
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n77d_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_16_QAM_3534.99MHz_Outer_Full



n77d_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_64_QAM_3465MHz_Outer_Full



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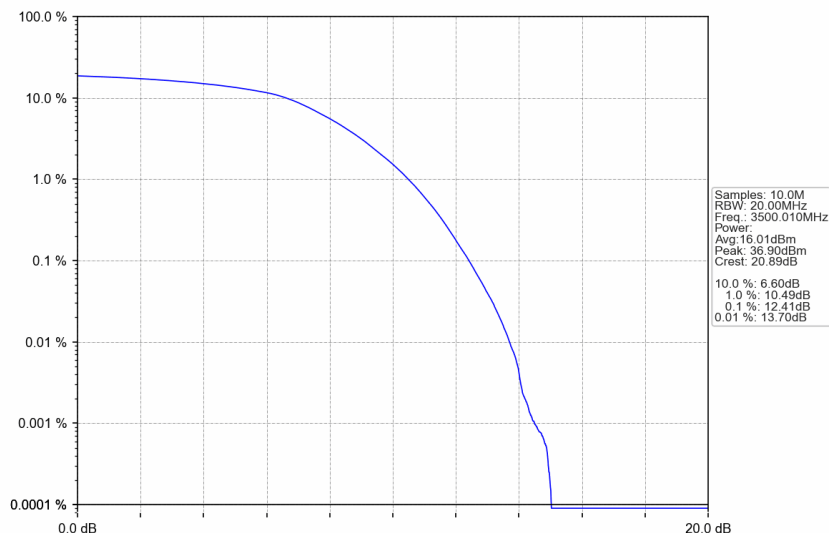
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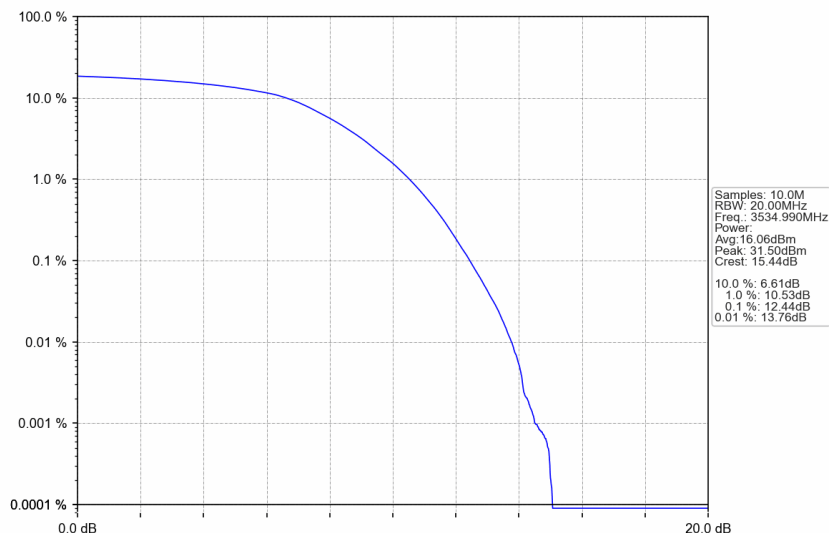
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n77d_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_64_QAM_3534.99MHz_Outer_Full



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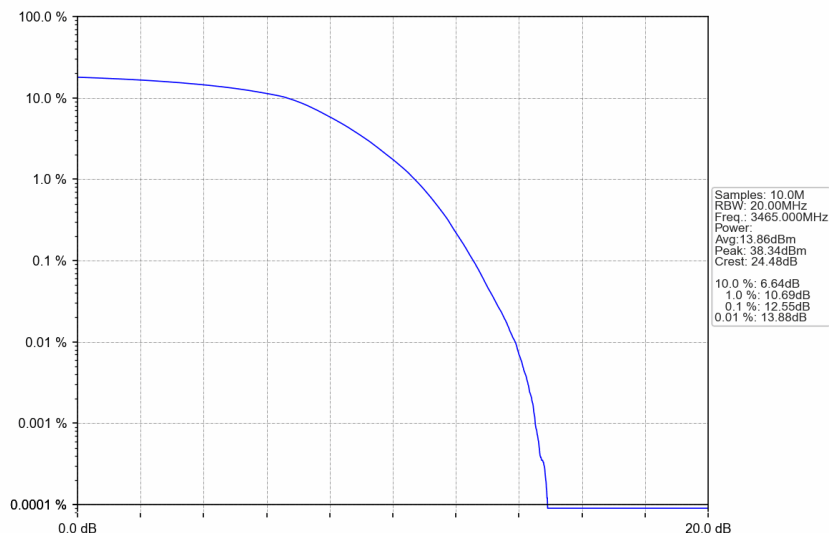
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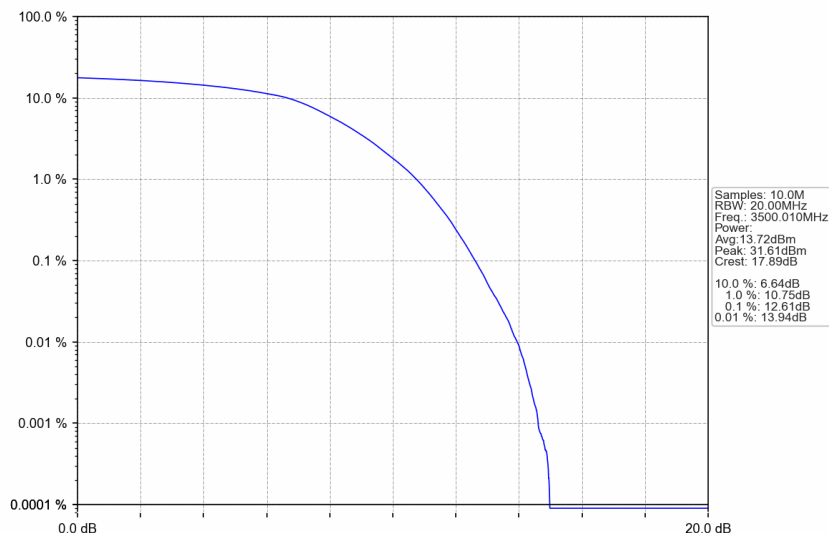
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n77d_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_256_QAM_3465MHz_Outer_Full



n77d_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_256_QAM_3500.01MHz_Outer_Full



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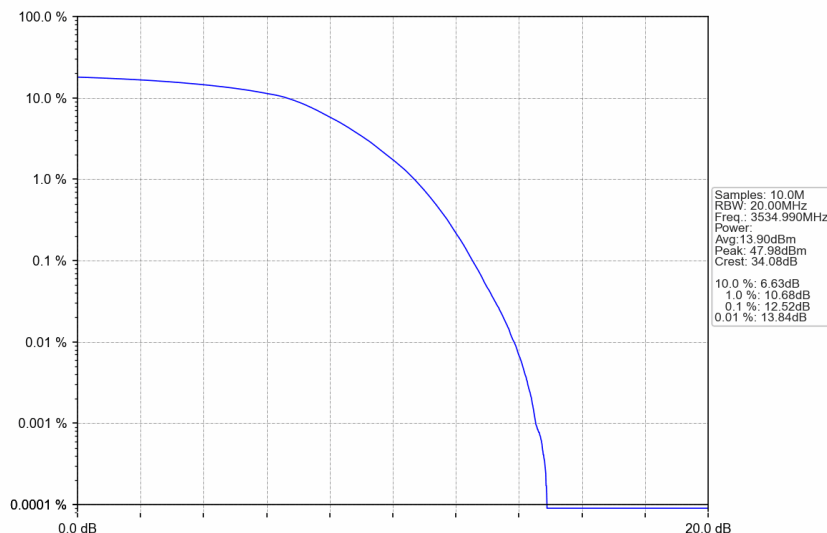
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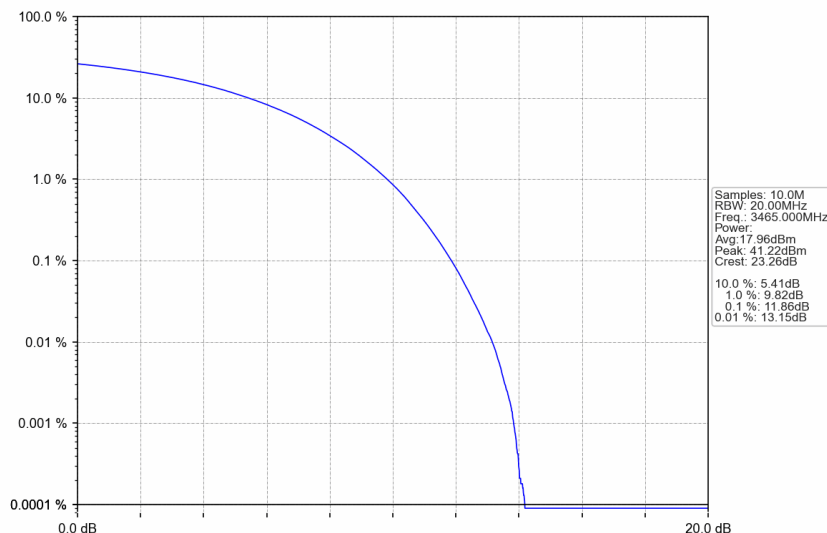
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n77d_30kHz_SISO_NTNV_30MHz_CP-OFDM_QPSK_3465MHz_Outer_Full



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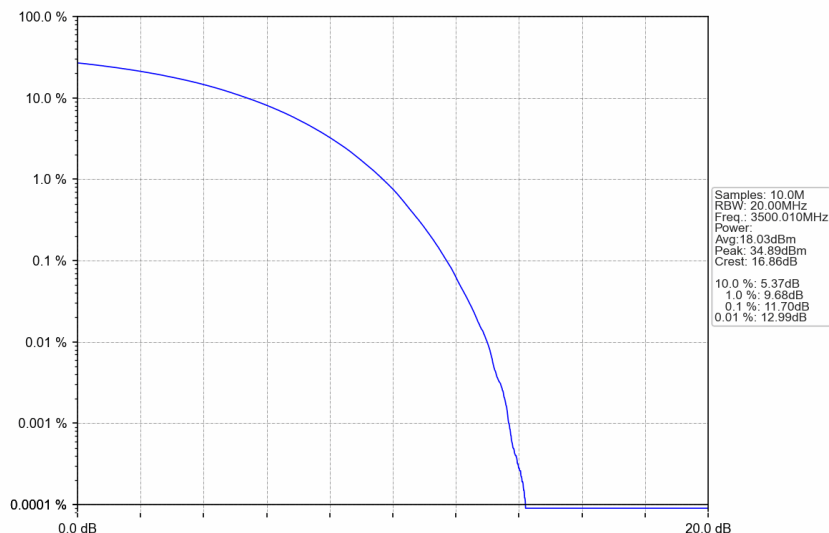
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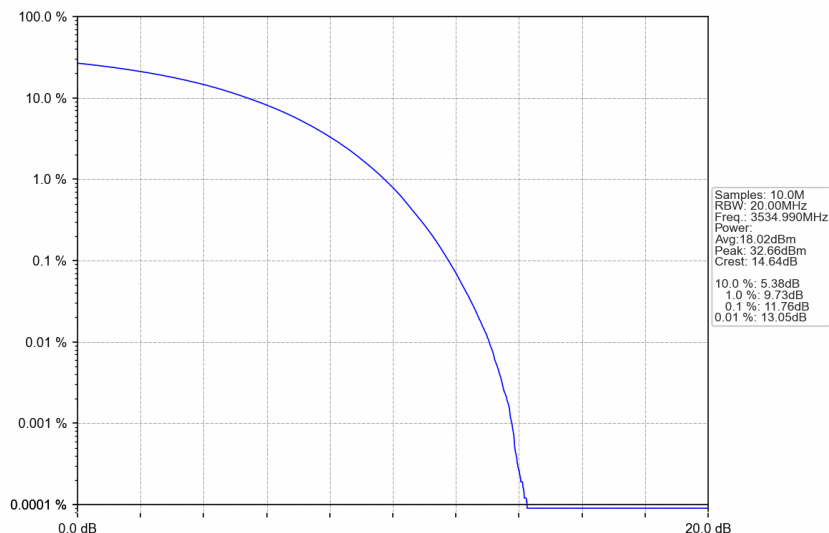
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n77d_30kHz_SISO_NTNV_30MHz_CP-OFDM QPSK_3534.99MHz_Outer_Full



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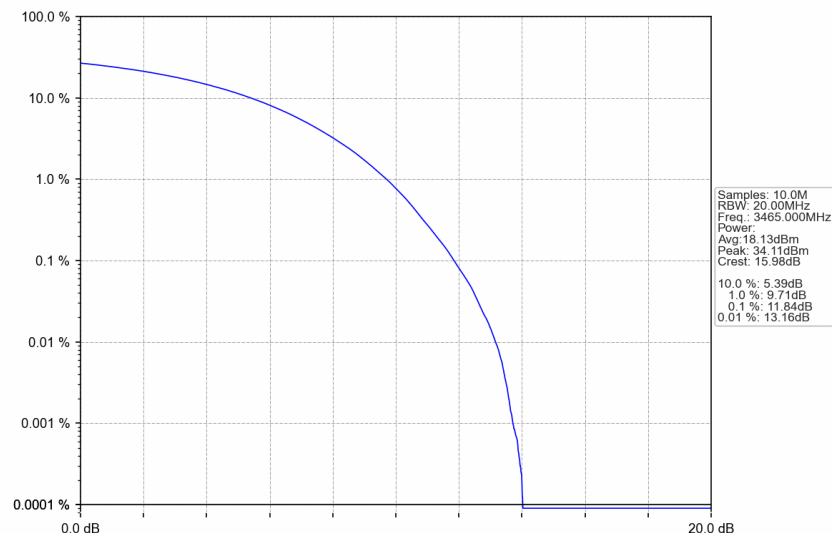
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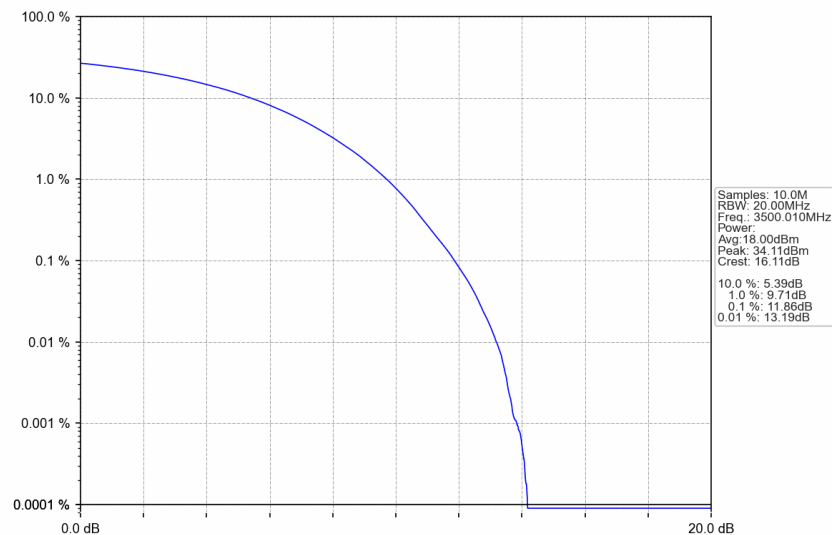
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n77d_30kHz_SISO_NTNV_30MHz_CP-OFDM_16_QAM_3500.01MHz_Outer_Full



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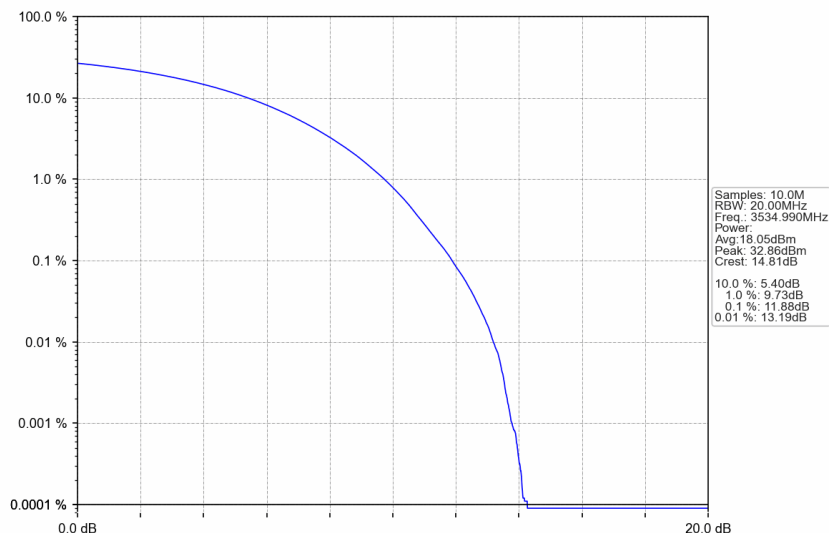
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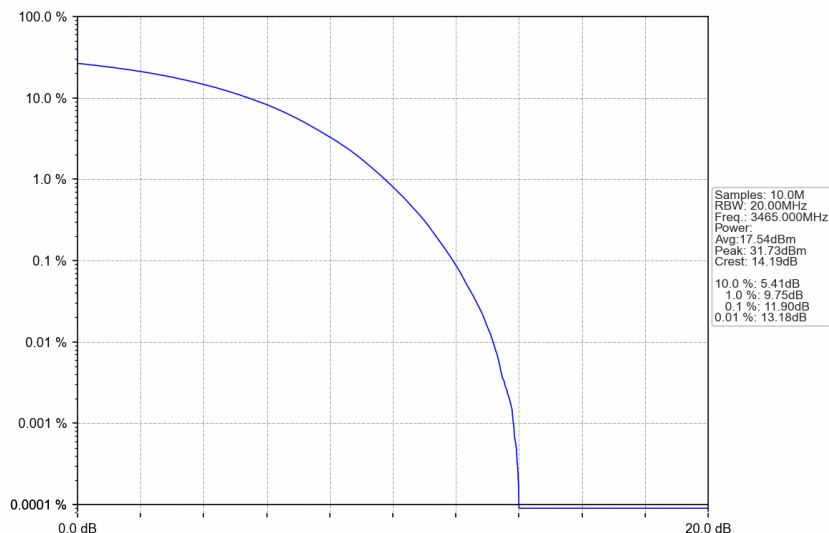
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n77d_30kHz_SISO_NTNV_30MHz_CP-OFDM 64 QAM_3465MHz_Outer_Full



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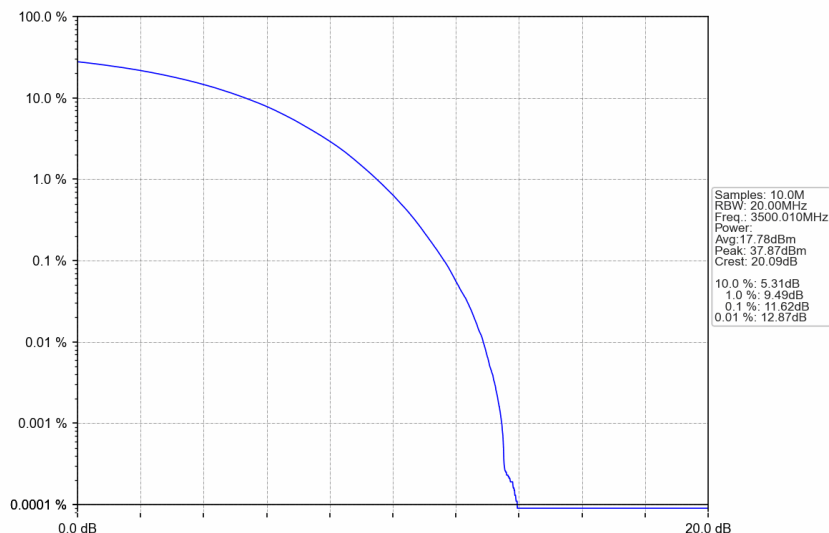
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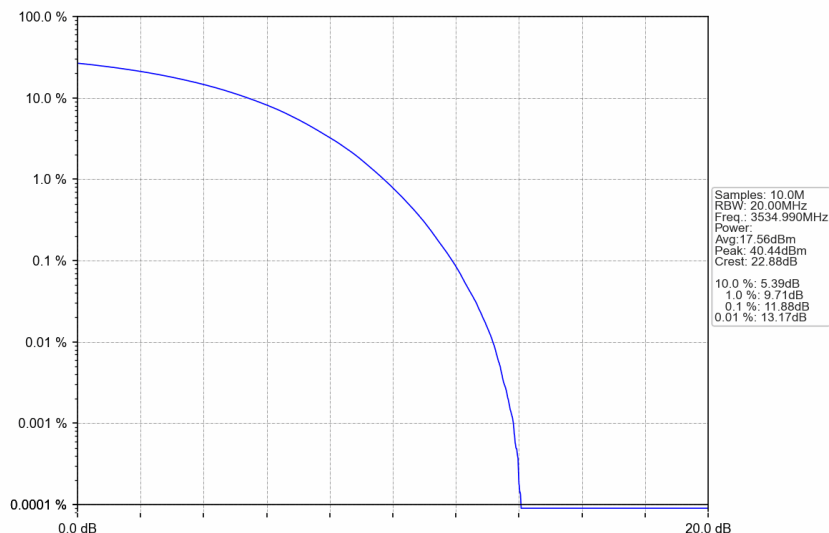
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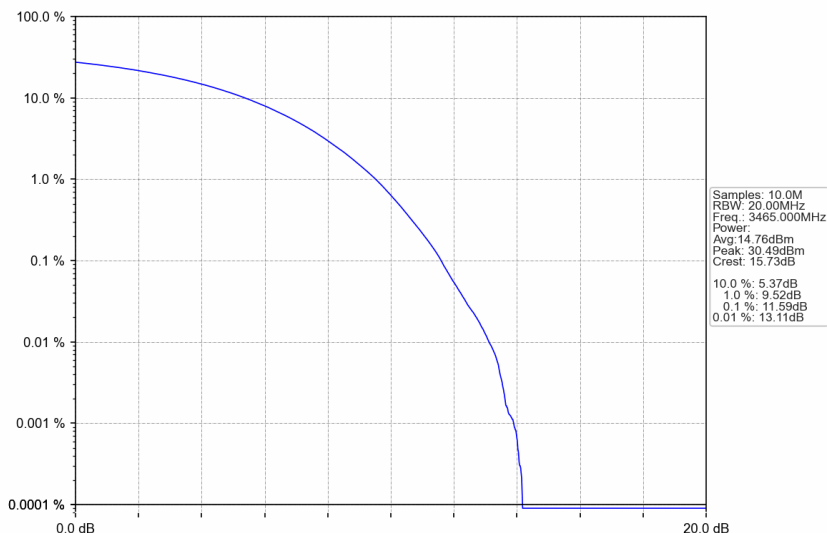
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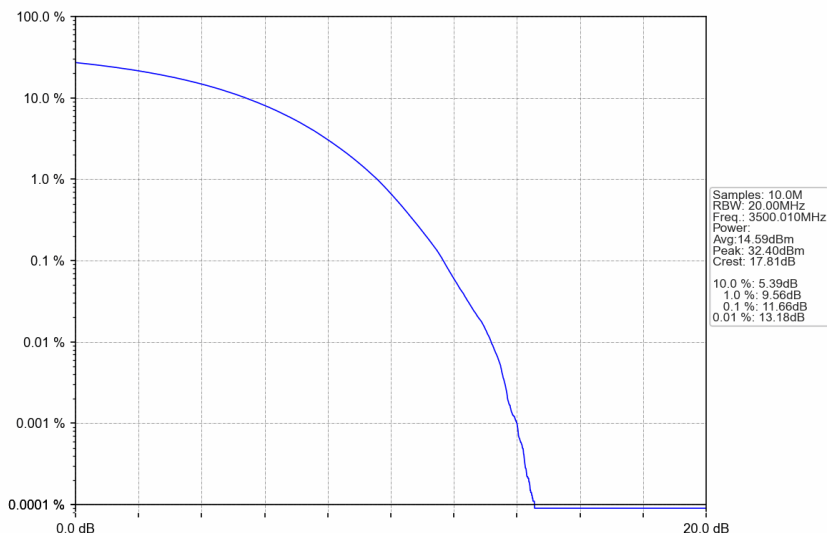
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n77d_30kHz_SISO_NTNV_30MHz_CP-OFDM_256_QAM_3465MHz_Outer_Full



n77d_30kHz_SISO_NTNV_30MHz_CP-OFDM_256_QAM_3500.01MHz_Outer_Full



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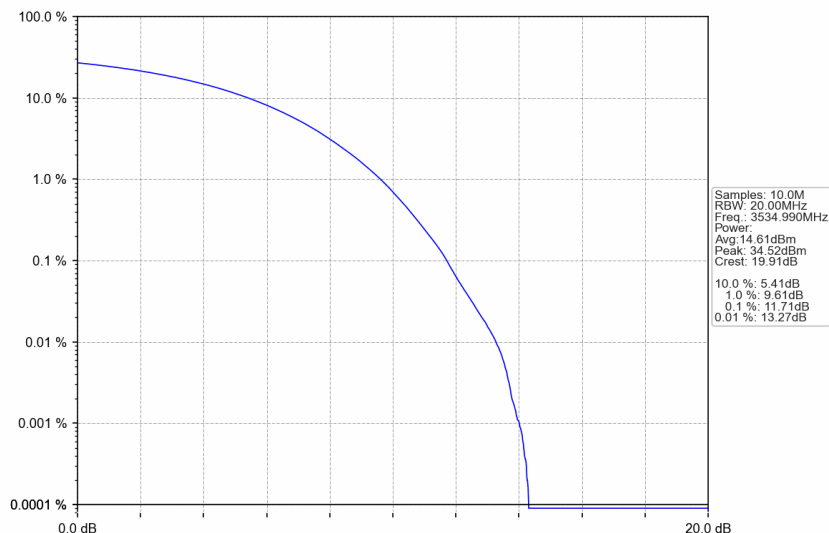
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n77d_30kHz_SISO_NTNV_30MHz_CP-OFDM_256_QAM_3534.99MHz_Outer_Full



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5.13 30k_SISO_40MHz_NTNV

5.13.1 Test Result

5G NR n77d SCS=30kHz SISO 40MHz NTV							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant5	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3470.01	Outer_Full	10.35	/	/	<=13	Pass
	3500.01	Outer_Full	10.72	/	/	<=13	Pass
	3529.98	Outer_Full	10.27	/	/	<=13	Pass
DFT-s-OFDM QPSK	3470.01	Outer_Full	11.29	/	/	<=13	Pass
	3500.01	Outer_Full	11.82	/	/	<=13	Pass
	3529.98	Outer_Full	11.70	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3470.01	Outer_Full	13.00	/	/	<=13	Pass
	3500.01	Outer_Full	12.55	/	/	<=13	Pass
	3529.98	Outer_Full	12.68	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3470.01	Outer_Full	12.76	/	/	<=13	Pass
	3500.01	Outer_Full	12.62	/	/	<=13	Pass
	3529.98	Outer_Full	12.75	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3470.01	Outer_Full	12.82	/	/	<=13	Pass
	3500.01	Outer_Full	12.72	/	/	<=13	Pass
	3529.98	Outer_Full	12.67	/	/	<=13	Pass
CP-OFDM QPSK	3470.01	Outer_Full	11.84	/	/	<=13	Pass
	3500.01	Outer_Full	11.93	/	/	<=13	Pass
	3529.98	Outer_Full	11.81	/	/	<=13	Pass
CP-OFDM 16 QAM	3470.01	Outer_Full	11.89	/	/	<=13	Pass
	3500.01	Outer_Full	11.89	/	/	<=13	Pass
	3529.98	Outer_Full	11.85	/	/	<=13	Pass
CP-OFDM 64 QAM	3470.01	Outer_Full	11.97	/	/	<=13	Pass
	3500.01	Outer_Full	11.87	/	/	<=13	Pass
	3529.98	Outer_Full	12.06	/	/	<=13	Pass
CP-OFDM 256 QAM	3470.01	Outer_Full	11.65	/	/	<=13	Pass
	3500.01	Outer_Full	11.59	/	/	<=13	Pass
	3529.98	Outer_Full	11.66	/	/	<=13	Pass



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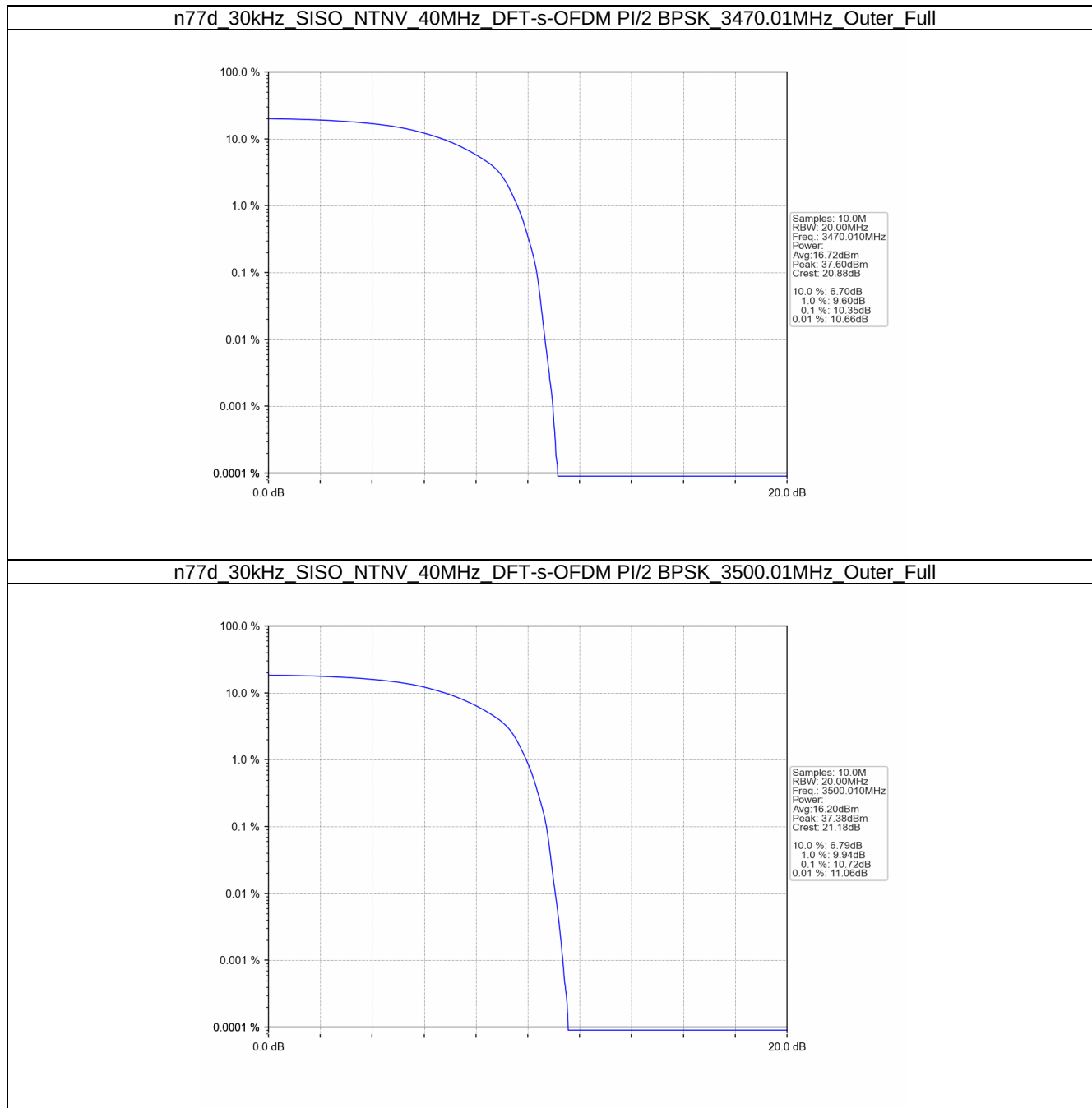
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5.13.2 Test Graph



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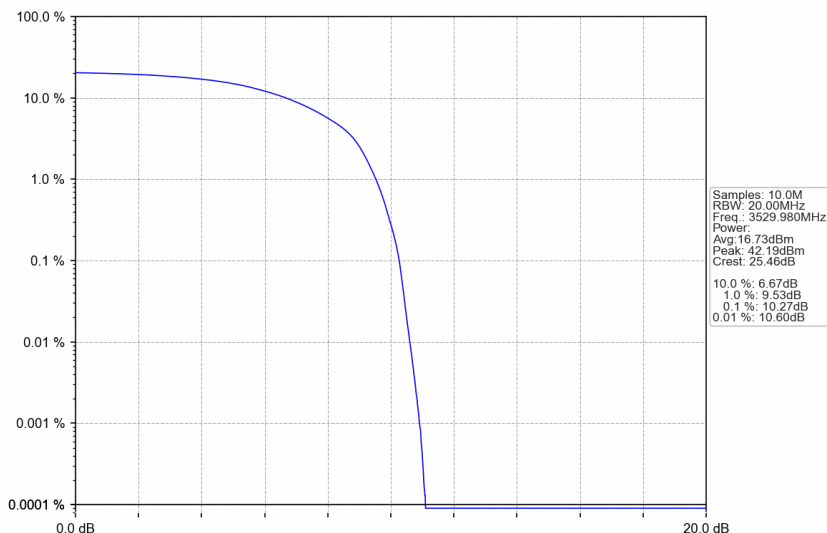
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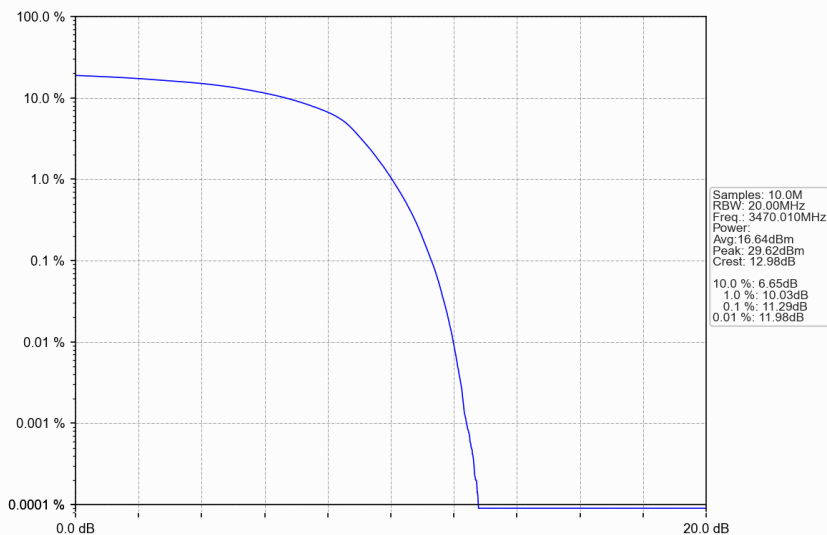
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n77d_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM PI/2 BPSK_3529.98MHz_Outer_Full



n77d_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM QPSK_3470.01MHz_Outer_Full



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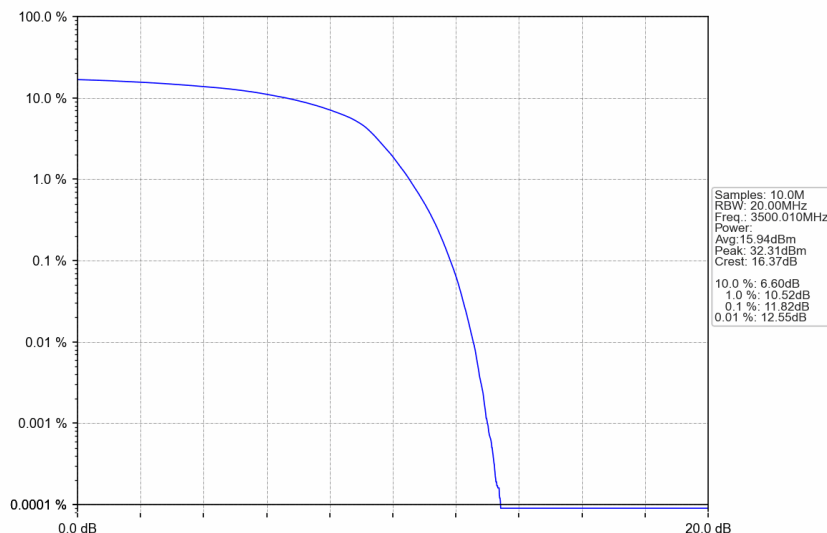
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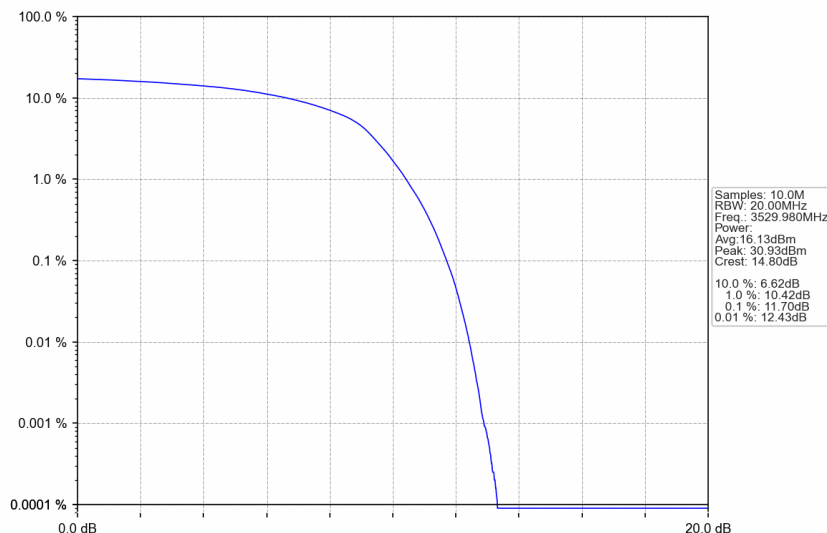
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n77d_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM QPSK_3500.01MHz_Outer_Full



n77d_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM QPSK_3529.98MHz_Outer_Full



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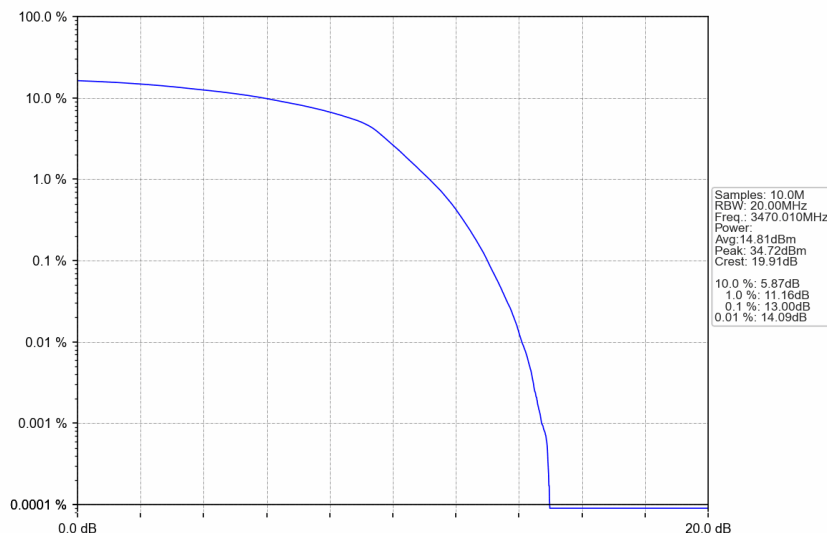
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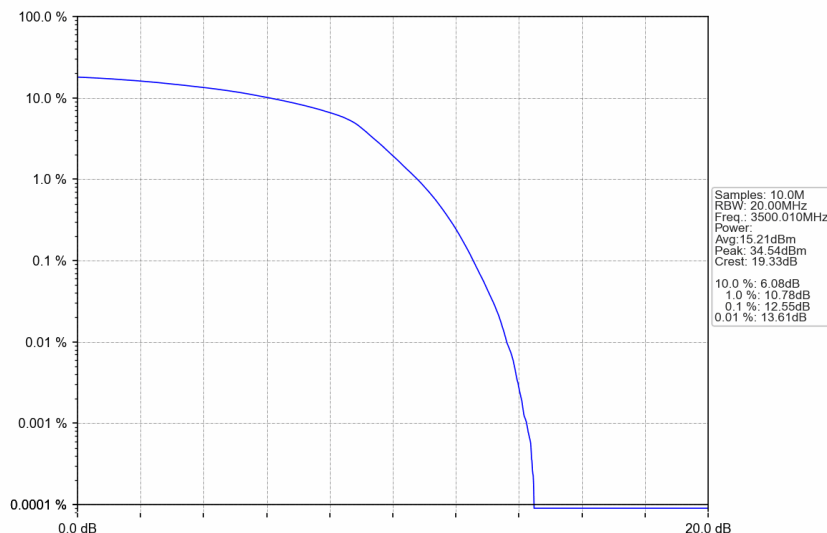
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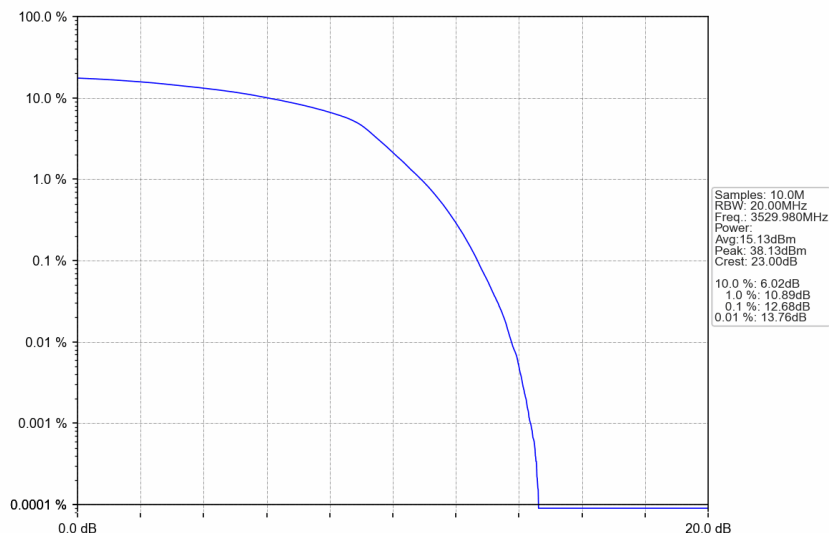
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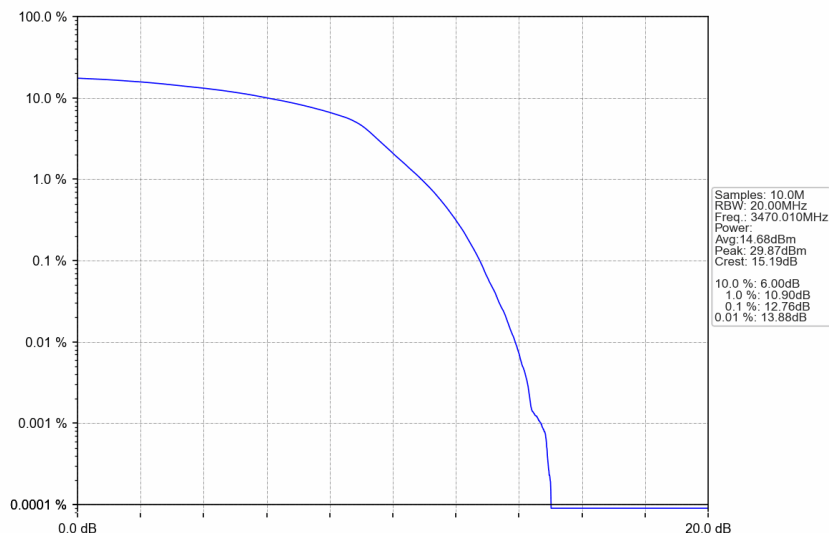
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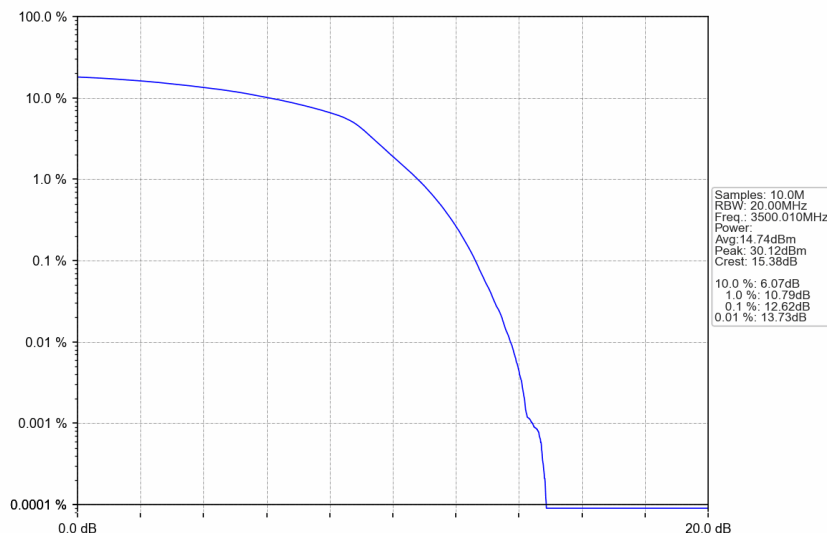
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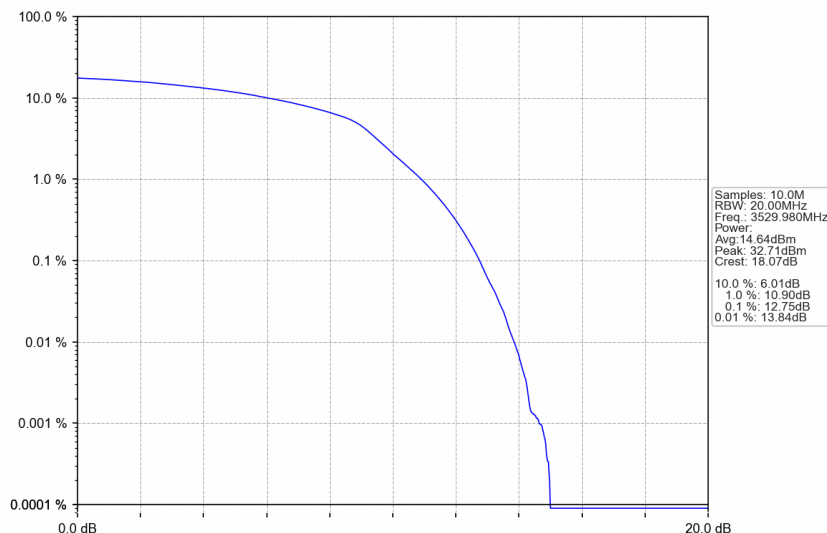
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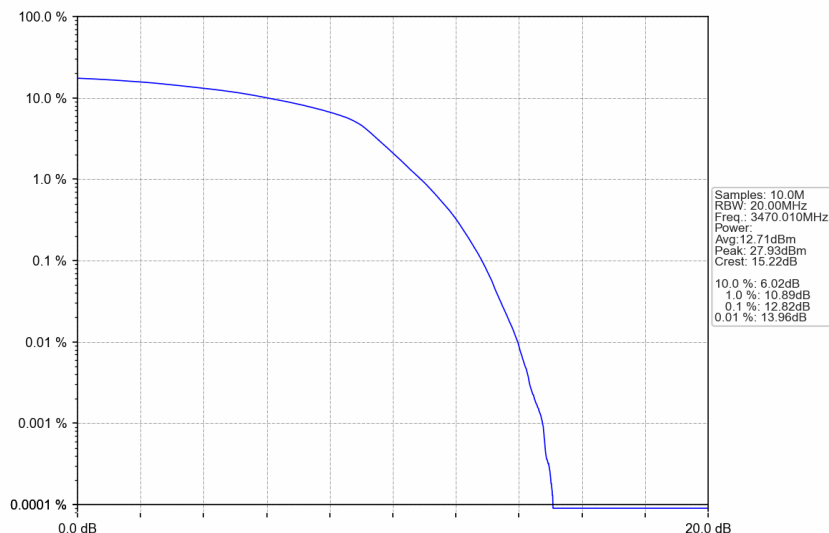
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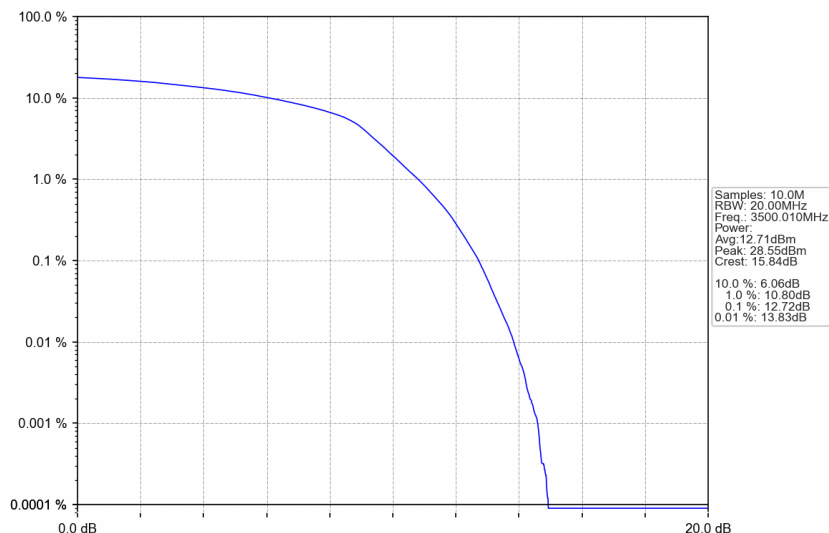
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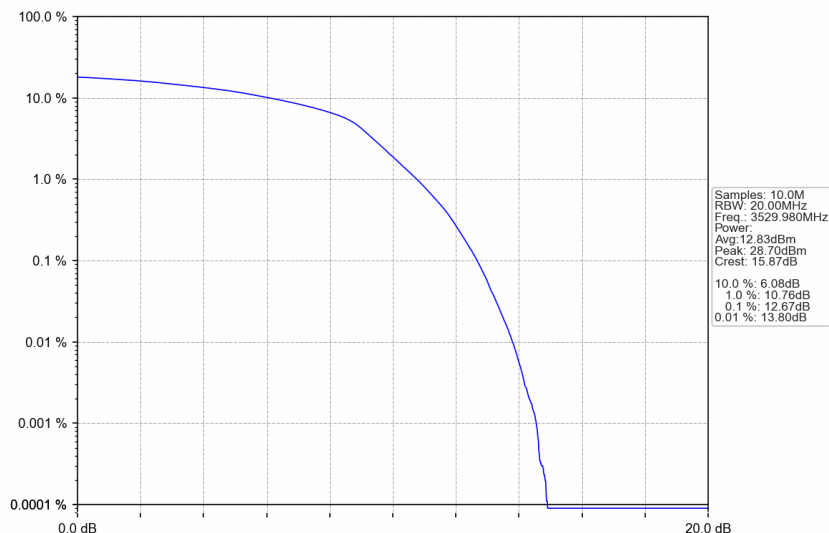
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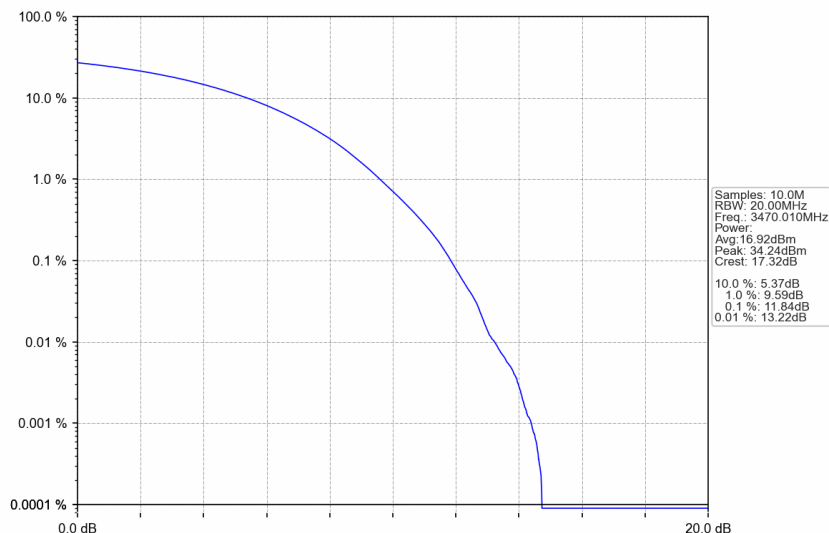
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n77d_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_256_QAM_3529.98MHz_Outer_Full



n77d_30kHz_SISO_NTNV_40MHz_CP-OFDM_QPSK_3470.01MHz_Outer_Full



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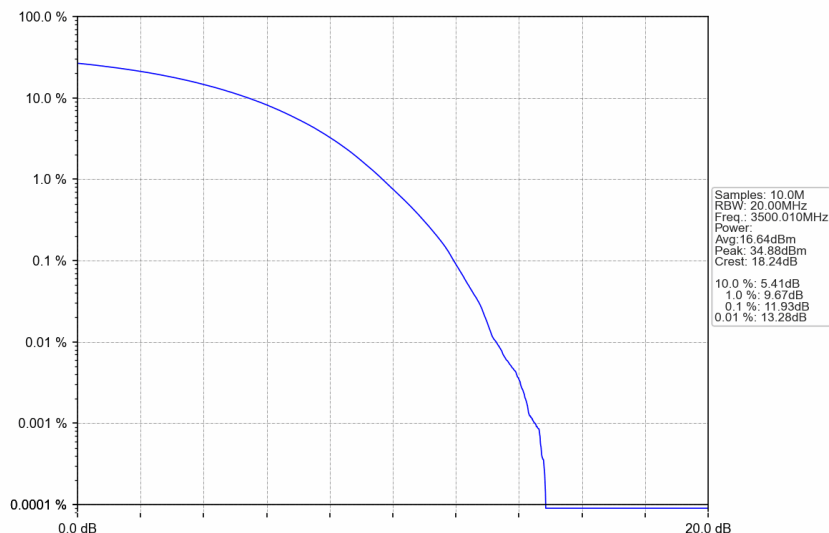
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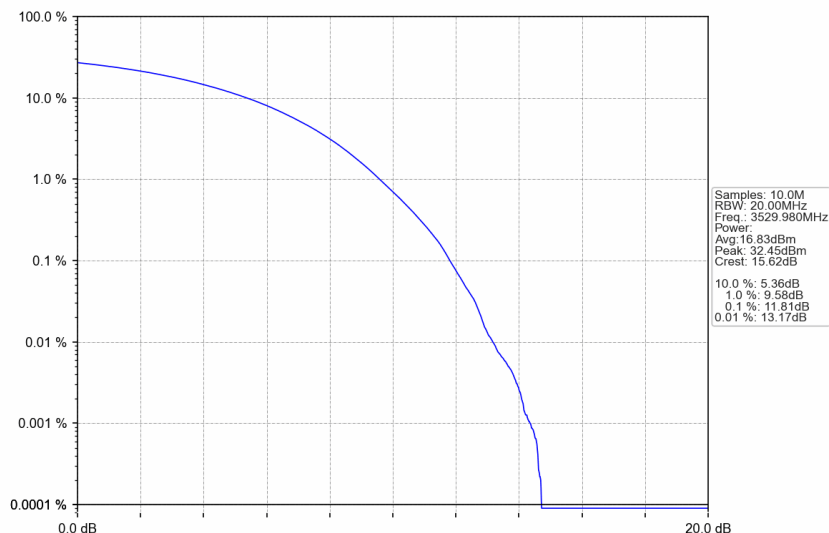
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n77d_30kHz_SISO_NTNV_40MHz_CP-OFDM QPSK_3500.01MHz_Outer_Full



n77d_30kHz_SISO_NTNV_40MHz_CP-OFDM QPSK_3529.98MHz_Outer_Full



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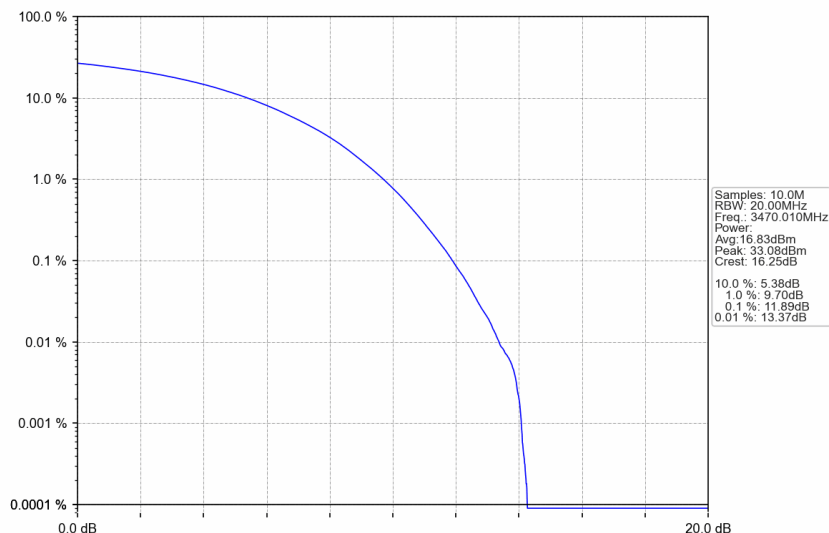
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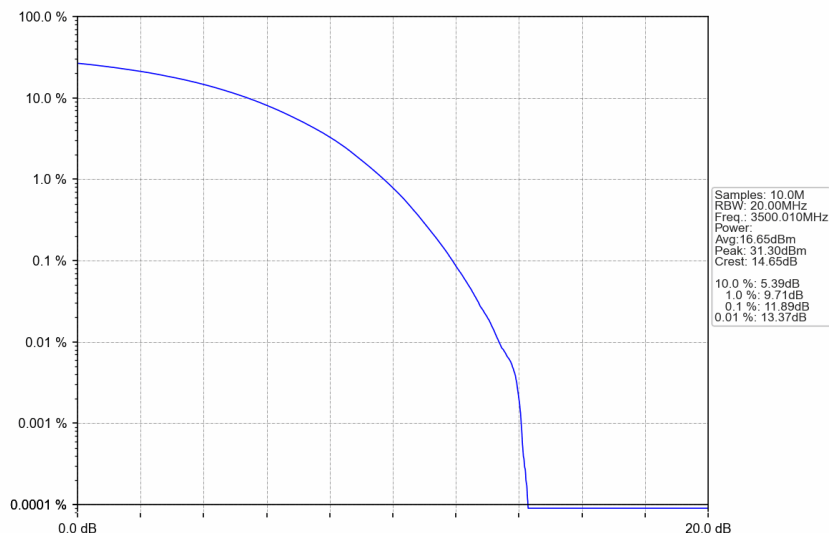
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n77d_30kHz_SISO_NTNV_40MHz_CP-OFDM_16_QAM_3470.01MHz_Outer_Full



n77d_30kHz_SISO_NTNV_40MHz_CP-OFDM_16_QAM_3500.01MHz_Outer_Full



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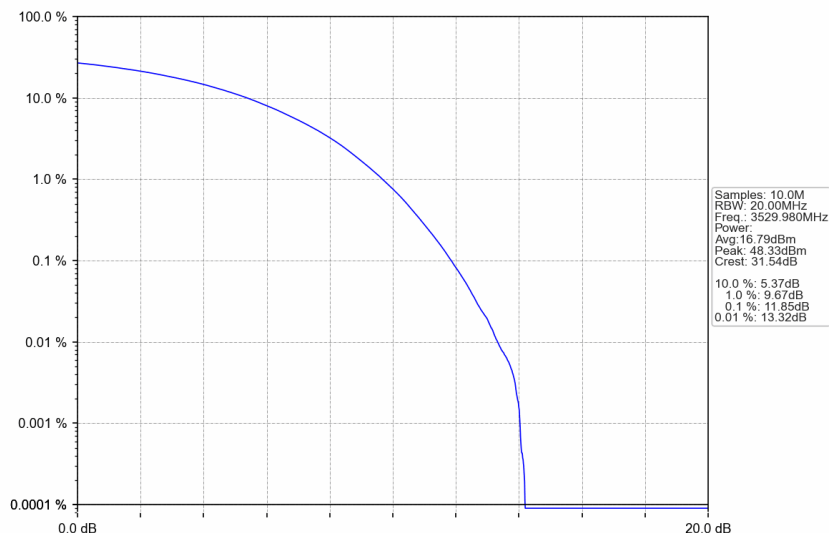
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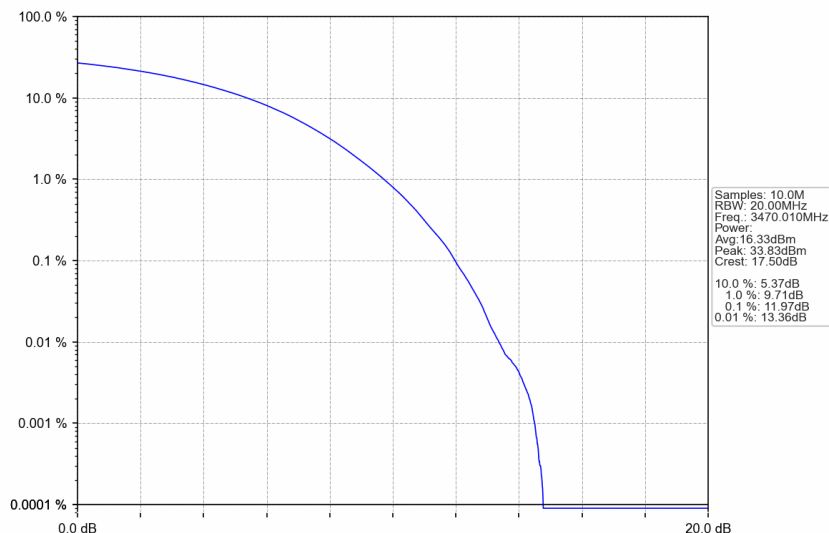
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n77d_30kHz_SISO_NTNV_40MHz_CP-OFDM 16 QAM_3529.98MHz_Outer_Full



n77d_30kHz_SISO_NTNV_40MHz_CP-OFDM 64 QAM_3470.01MHz_Outer_Full



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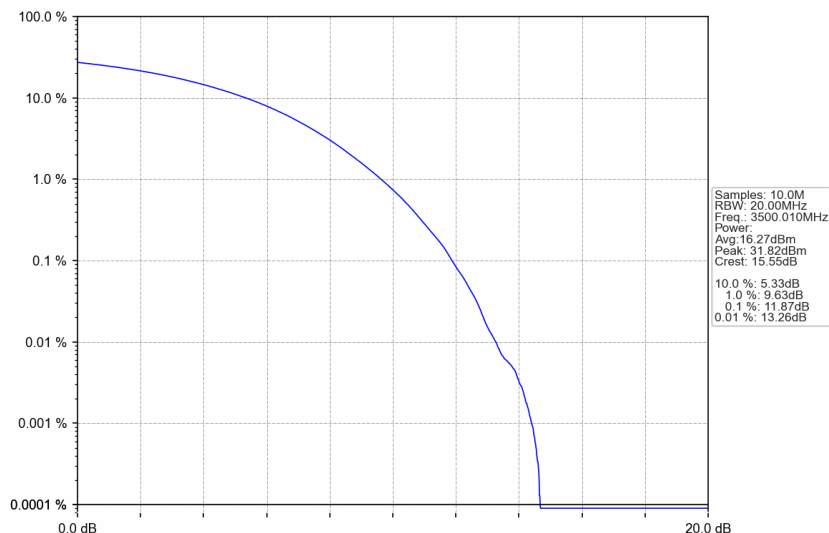
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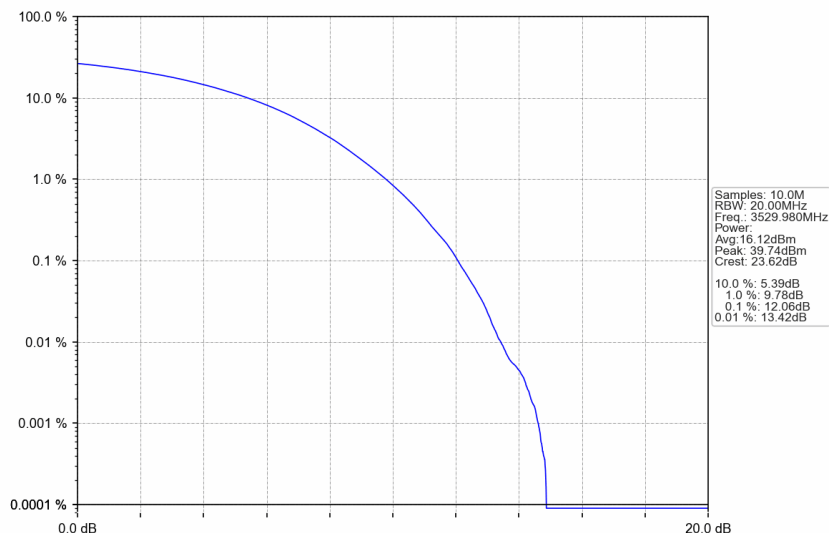
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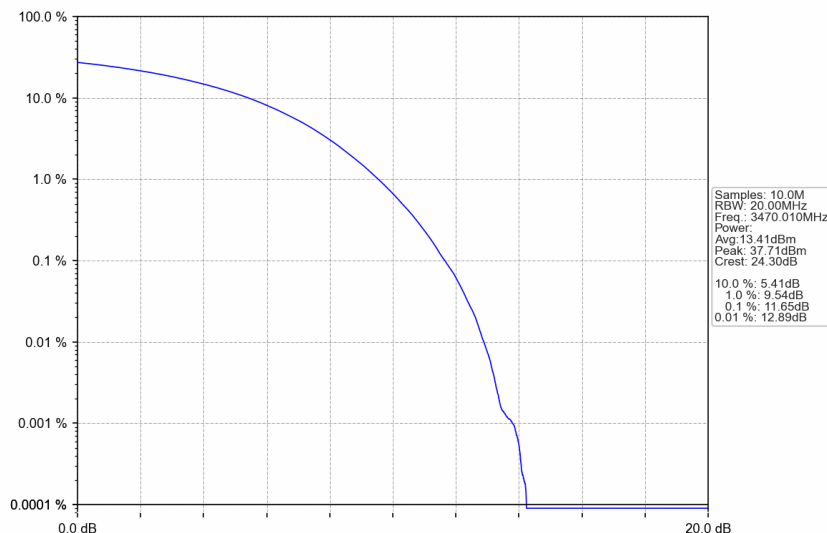
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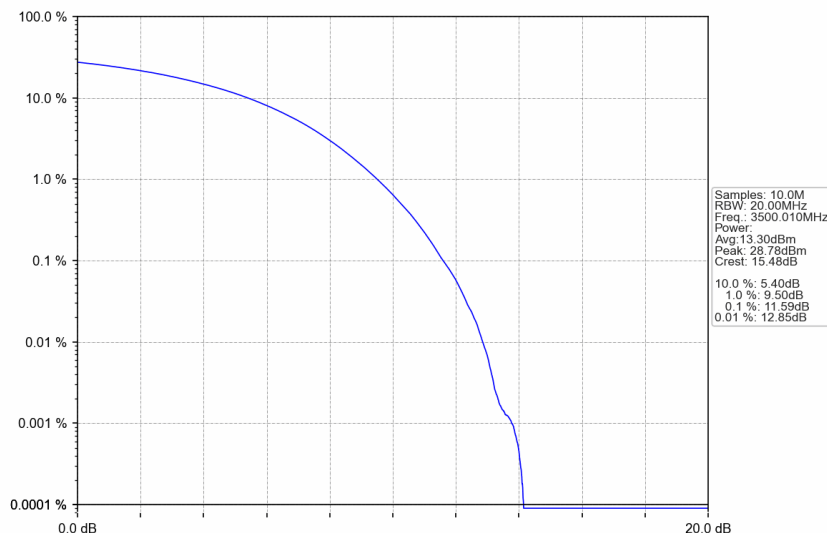
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n77d_30kHz_SISO_NTNV_40MHz_CP-OFDM_256_QAM_3470.01MHz_Outer_Full



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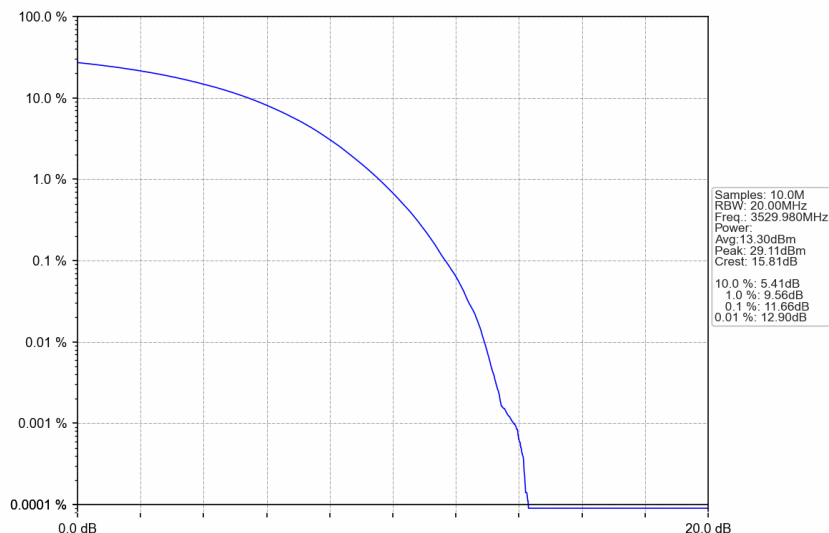
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5.14 30k_SISO_50MHz_NTNV

5.14.1 Test Result

5G NR n77d SCS=30kHz SISO 50MHz NTV							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant5	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3475.02	Outer_Full	11.76	/	/	<=13	Pass
	3500.01	Outer_Full	11.37	/	/	<=13	Pass
	3525	Outer_Full	11.85	/	/	<=13	Pass
DFT-s-OFDM QPSK	3475.02	Outer_Full	12.27	/	/	<=13	Pass
	3500.01	Outer_Full	12.41	/	/	<=13	Pass
	3525	Outer_Full	12.23	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3475.02	Outer_Full	12.99	/	/	<=13	Pass
	3500.01	Outer_Full	12.81	/	/	<=13	Pass
	3525	Outer_Full	12.79	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3475.02	Outer_Full	12.80	/	/	<=13	Pass
	3500.01	Outer_Full	12.92	/	/	<=13	Pass
	3525	Outer_Full	12.97	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3475.02	Outer_Full	10.63	/	/	<=13	Pass
	3500.01	Outer_Full	12.86	/	/	<=13	Pass
	3525	Outer_Full	10.84	/	/	<=13	Pass
CP-OFDM QPSK	3475.02	Outer_Full	11.75	/	/	<=13	Pass
	3500.01	Outer_Full	11.84	/	/	<=13	Pass
	3525	Outer_Full	11.80	/	/	<=13	Pass
CP-OFDM 16 QAM	3475.02	Outer_Full	11.80	/	/	<=13	Pass
	3500.01	Outer_Full	11.75	/	/	<=13	Pass
	3525	Outer_Full	11.70	/	/	<=13	Pass
CP-OFDM 64 QAM	3475.02	Outer_Full	11.82	/	/	<=13	Pass
	3500.01	Outer_Full	11.75	/	/	<=13	Pass
	3525	Outer_Full	11.69	/	/	<=13	Pass
CP-OFDM 256 QAM	3475.02	Outer_Full	11.83	/	/	<=13	Pass
	3500.01	Outer_Full	11.91	/	/	<=13	Pass
	3525	Outer_Full	11.67	/	/	<=13	Pass



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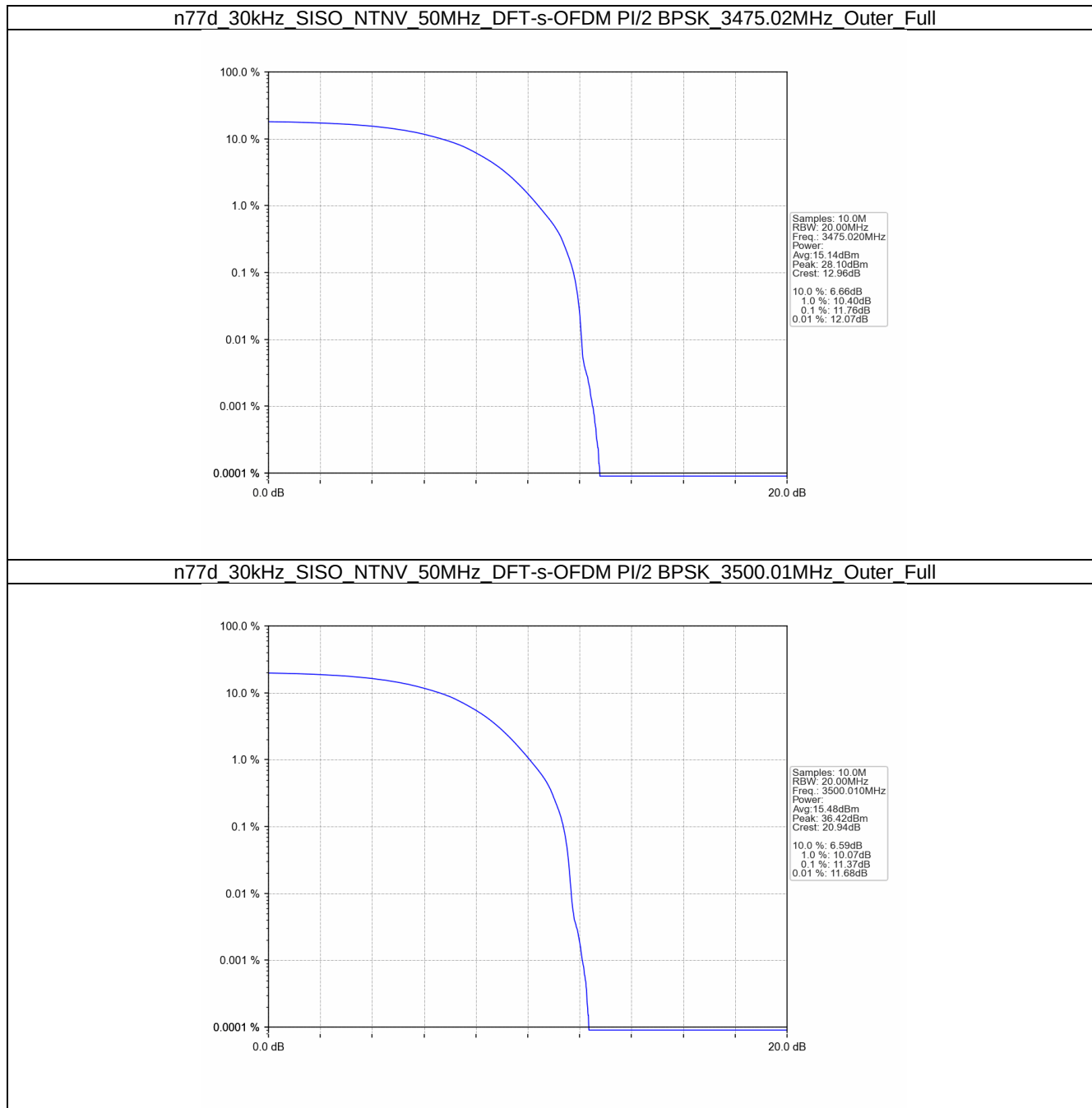
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5.14.2 Test Graph



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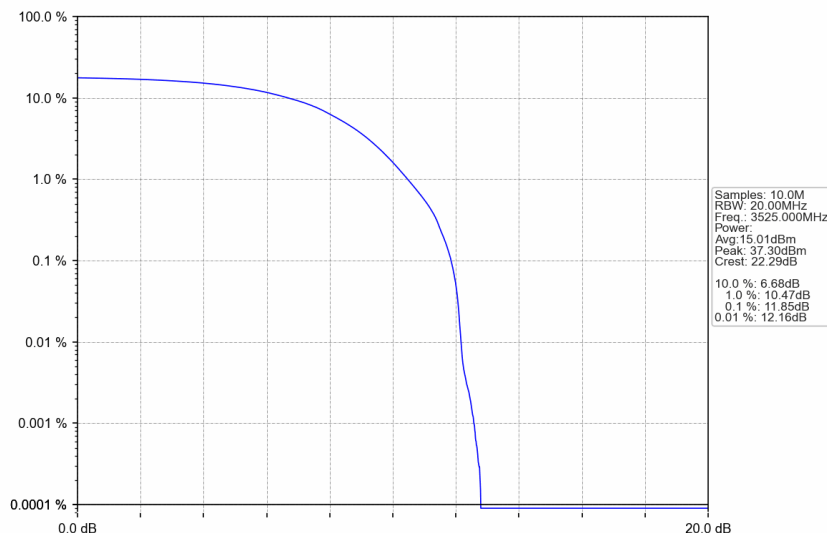
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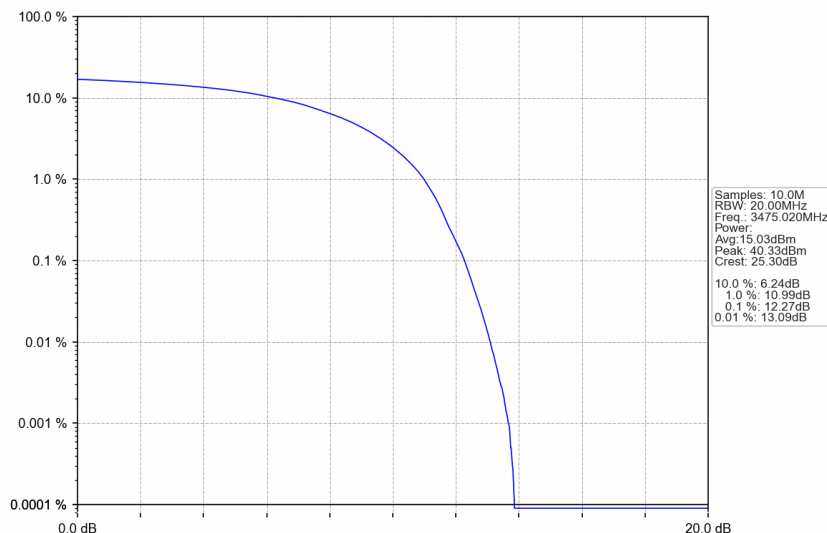
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n77d_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM QPSK_3475.02MHz_Outer_Full



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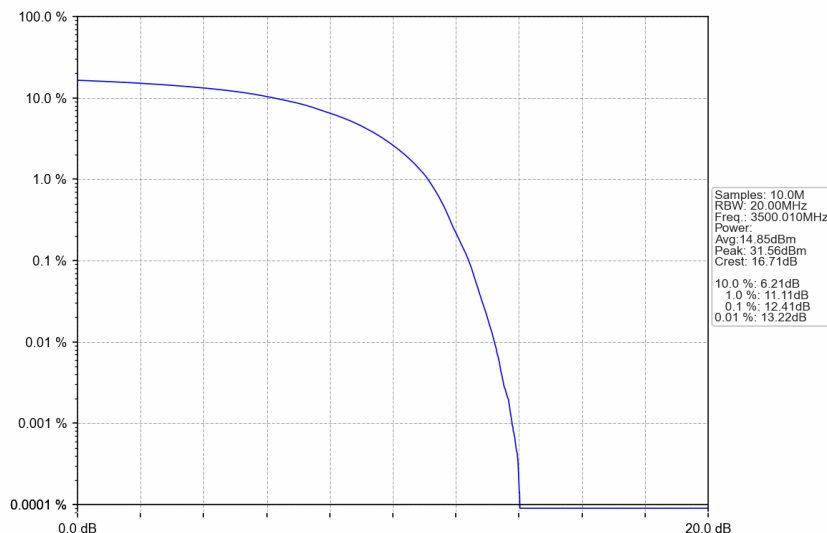
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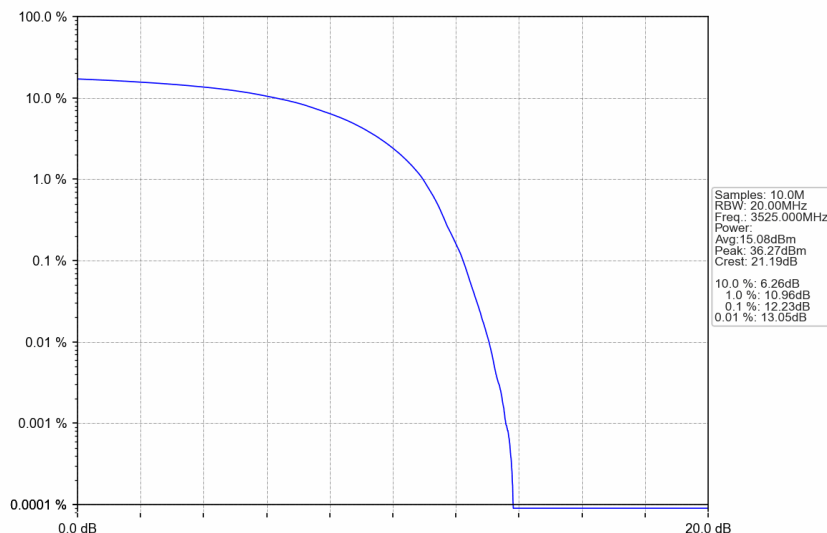
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n77d_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM QPSK_3525MHz_Outer_Full



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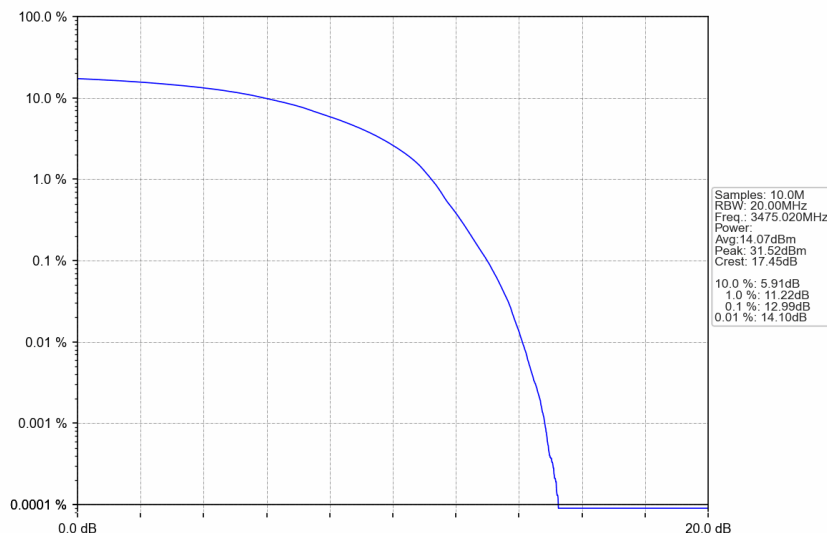
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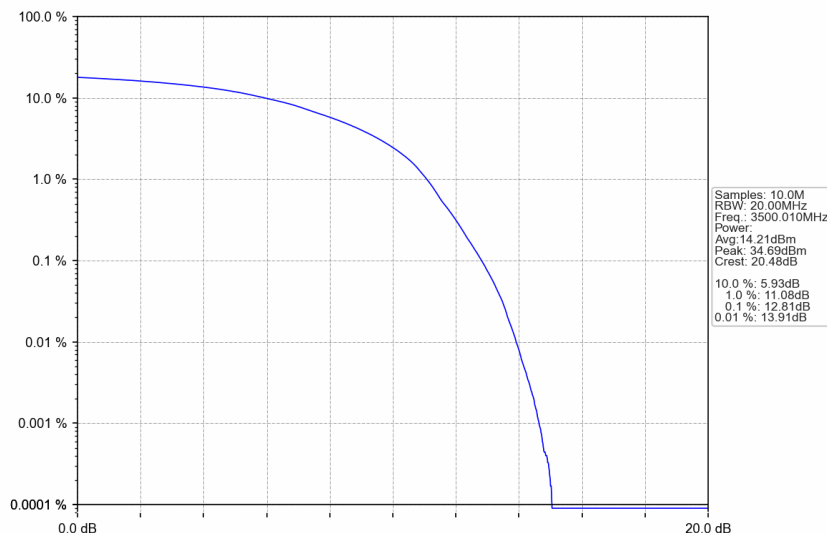
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n77d_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM_16_QAM_3475.02MHz_Outer_Full



n77d_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM_16_QAM_3500.01MHz_Outer_Full



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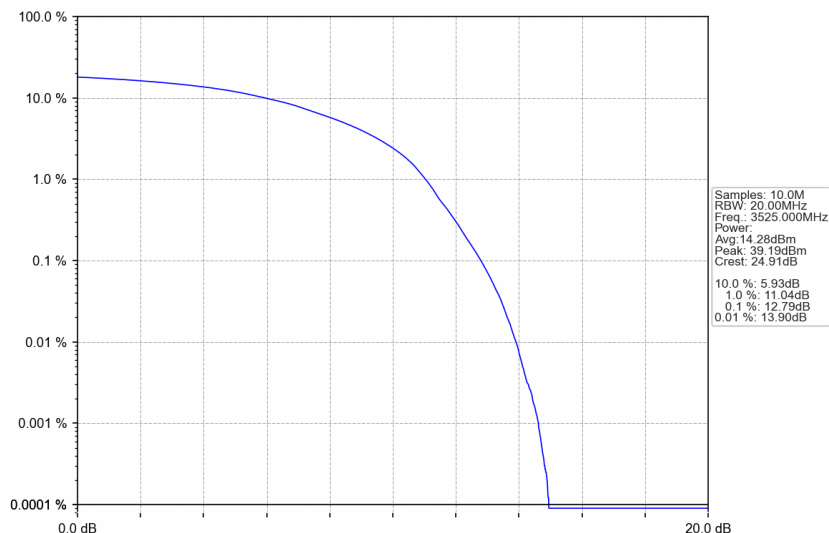
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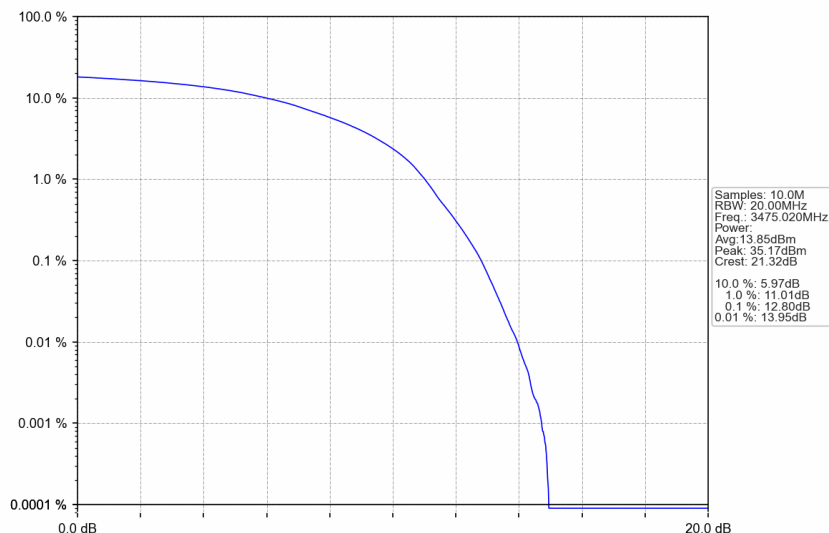
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n77d_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM_16_QAM_3525MHz_Outer_Full



n77d_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM_64_QAM_3475.02MHz_Outer_Full



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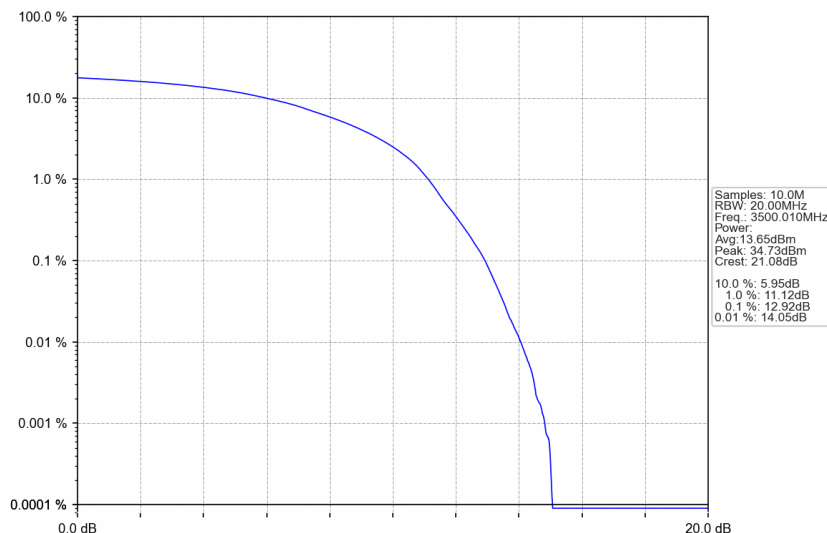
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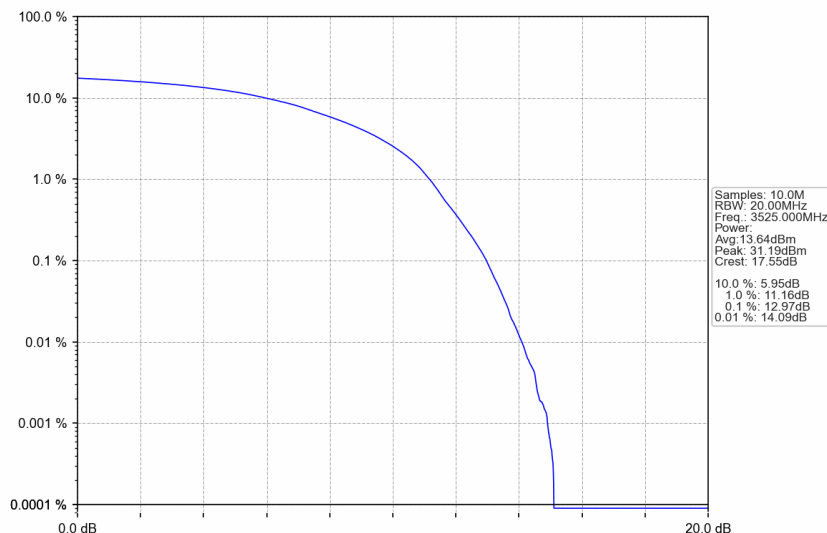
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n77d_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM_64_QAM_3525MHz_Outer_Full



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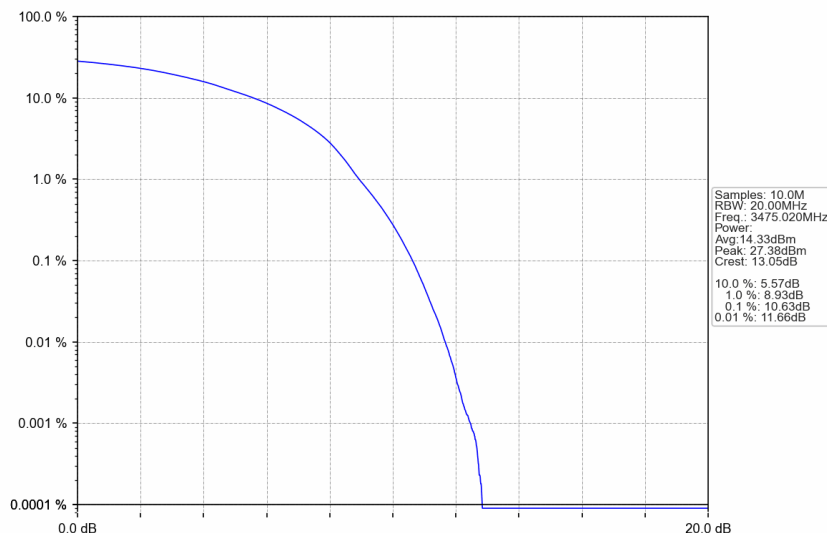
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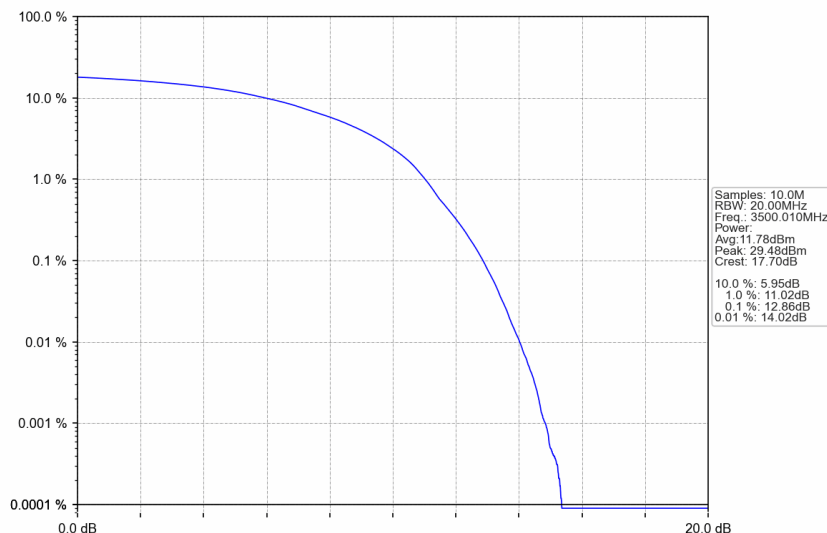
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n77d_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM_256_QAM_3475.02MHz_Outer_Full



n77d_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM_256_QAM_3500.01MHz_Outer_Full



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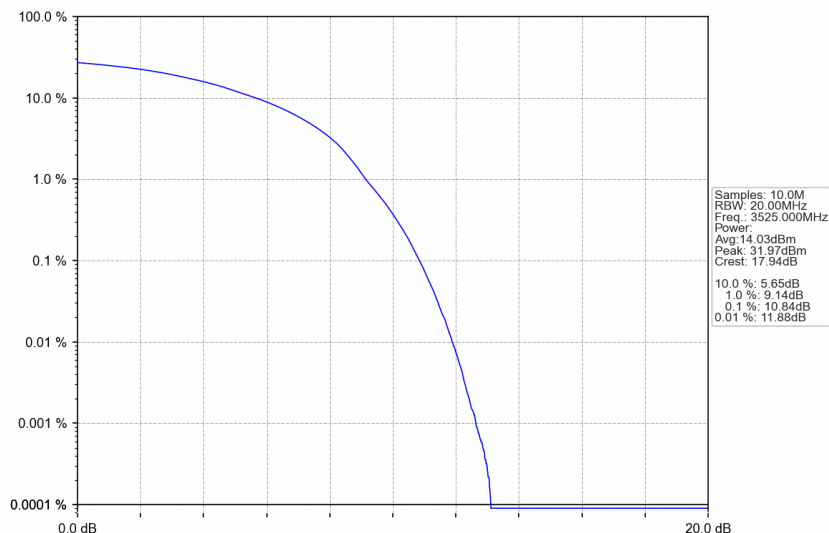
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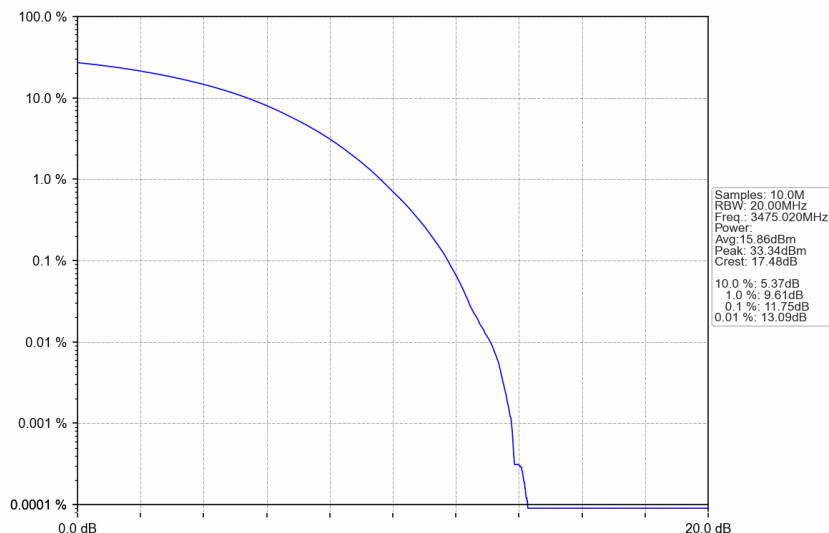
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n77d_30kHz_SISO_NTNV_50MHz_CP-OFDM_QPSK_3475.02MHz_Outer_Full



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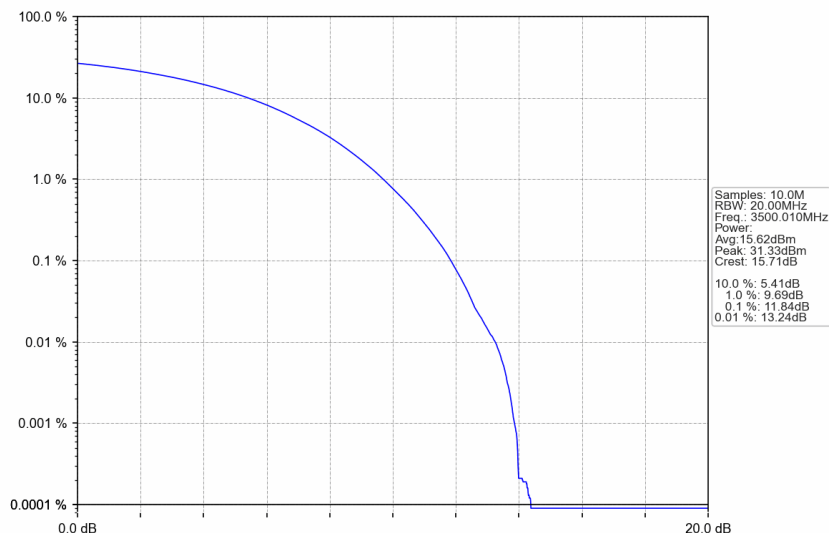
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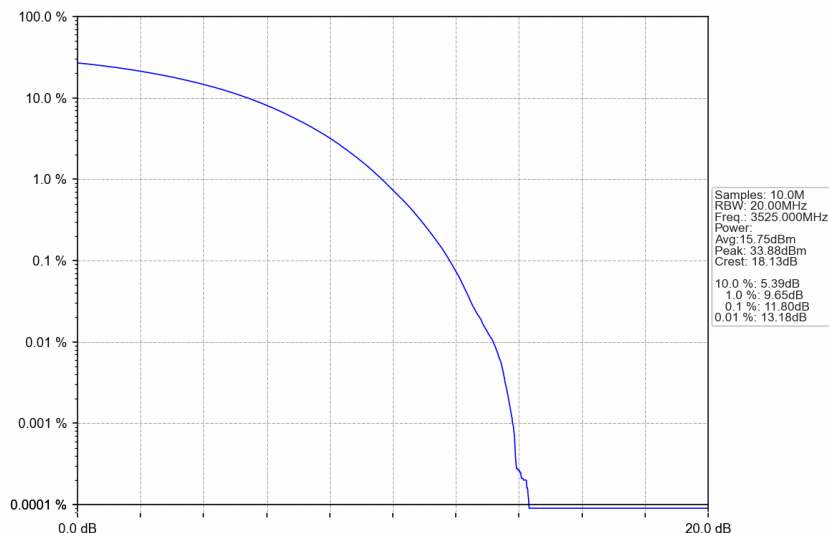
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n77d_30kHz_SISO_NTNV_50MHz_CP-OFDM QPSK_3500.01MHz_Outer_Full



n77d_30kHz_SISO_NTNV_50MHz_CP-OFDM QPSK_3525MHz_Outer_Full



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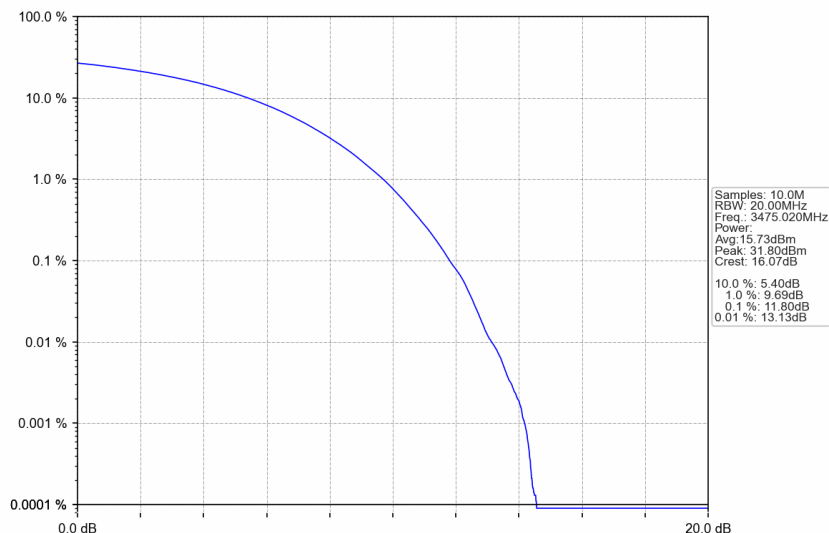
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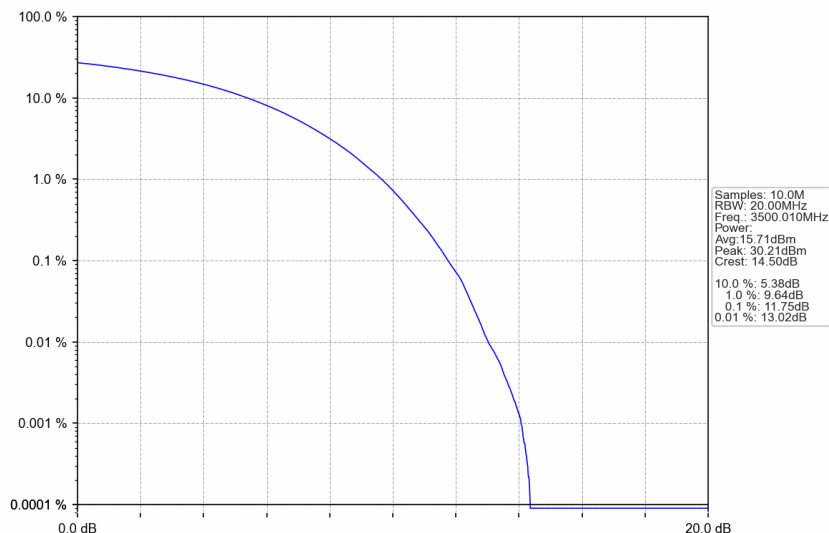
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n77d_30kHz_SISO_NTNV_50MHz_CP-OFDM_16_QAM_3500.01MHz_Outer_Full



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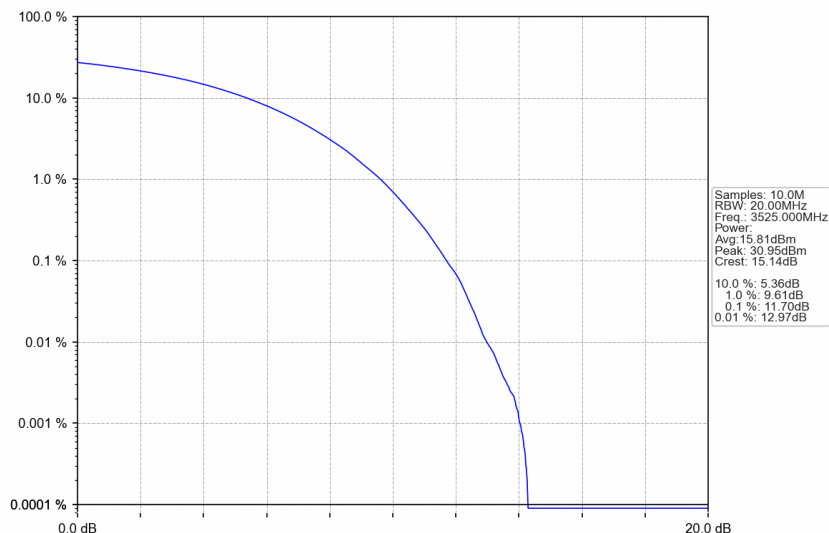
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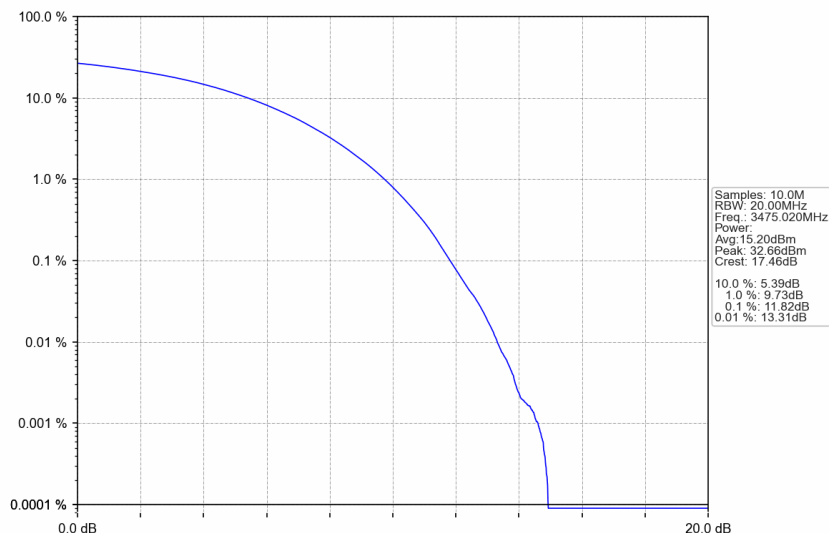
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n77d_30kHz_SISO_NTNV_50MHz_CP-OFDM 64 QAM_3475.02MHz_Outer_Full



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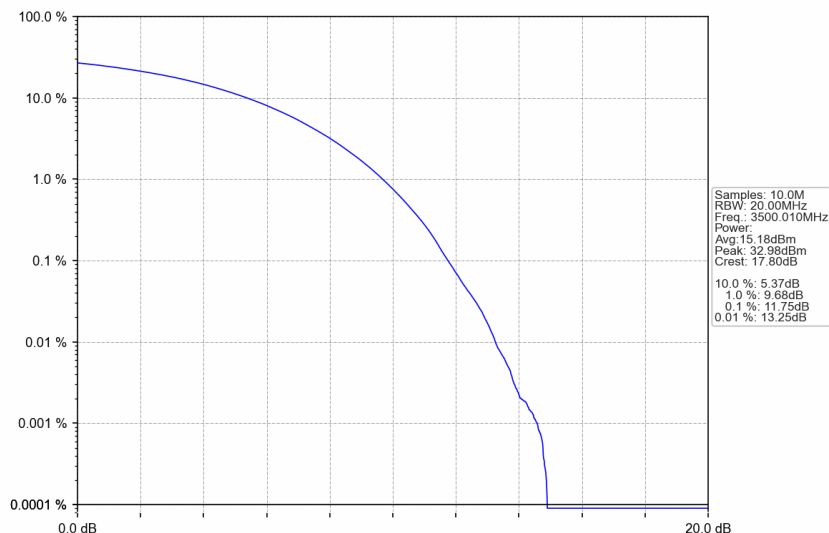
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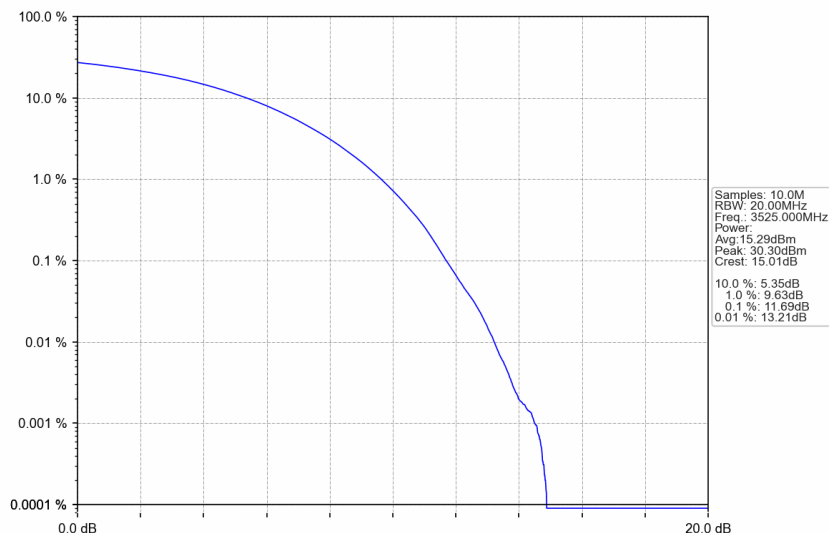
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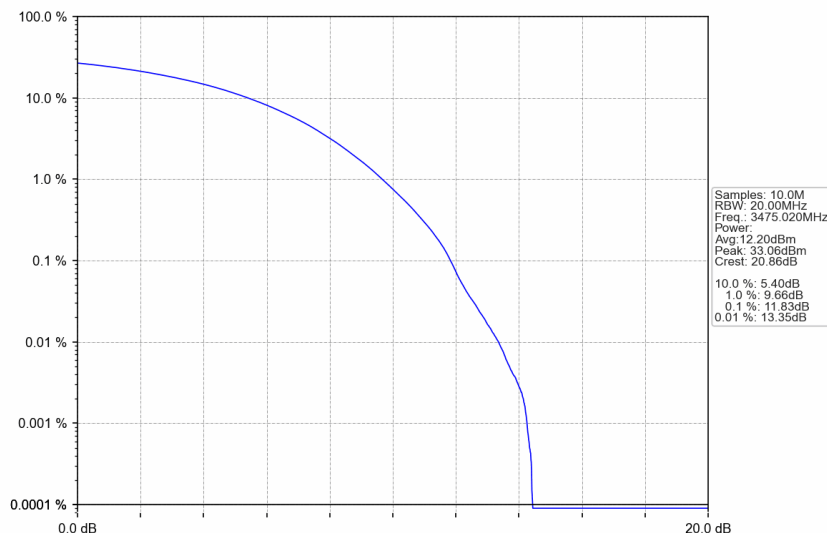
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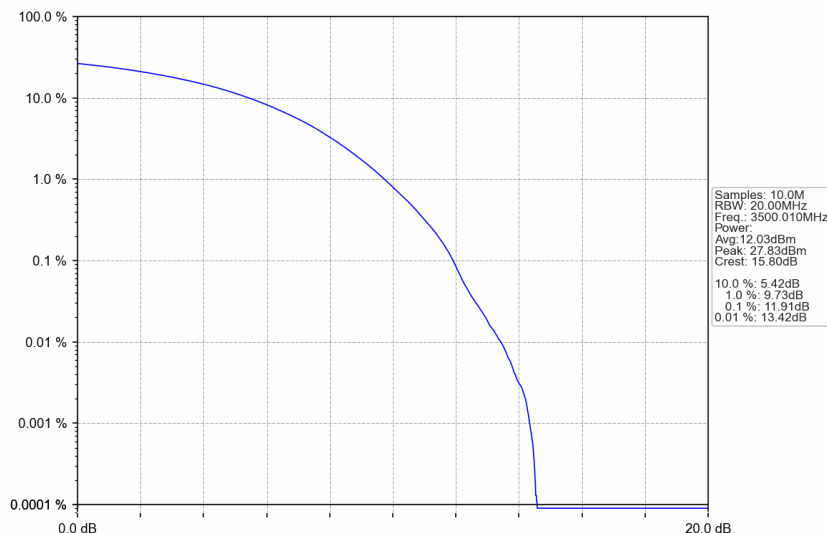
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n77d_30kHz_SISO_NTNV_50MHz_CP-OFDM_256_QAM_3500.01MHz_Outer_Full



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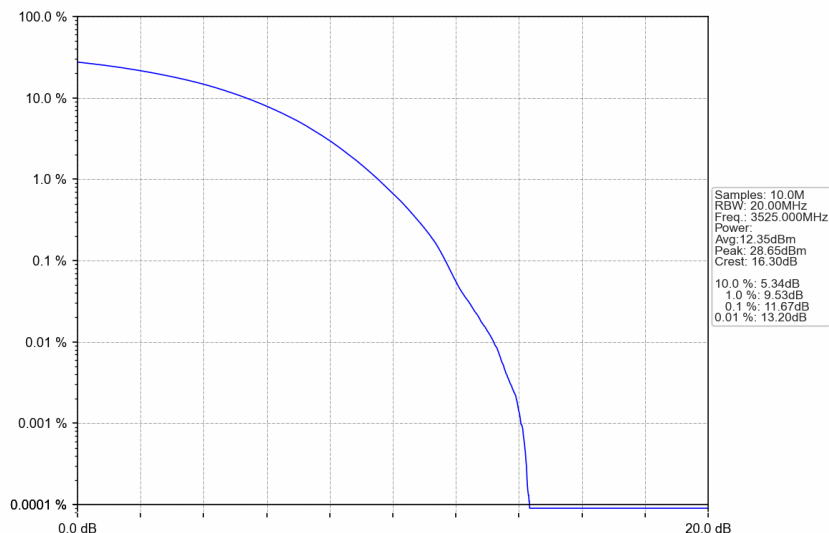
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5.15 30k_SISO_60MHz_NTNV

5.15.1 Test Result

5G NR n77d SCS=30kHz SISO 60MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant5	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3480	Outer_Full	12.97	/	/	<=13	Pass
	3500.01	Outer_Full	12.82	/	/	<=13	Pass
	3519.99	Outer_Full	9.99	/	/	<=13	Pass
DFT-s-OFDM QPSK	3480	Outer_Full	13.00	/	/	<=13	Pass
	3500.01	Outer_Full	10.10	/	/	<=13	Pass
	3519.99	Outer_Full	12.69	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3480	Outer_Full	10.94	/	/	<=13	Pass
	3500.01	Outer_Full	10.77	/	/	<=13	Pass
	3519.99	Outer_Full	12.72	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3480	Outer_Full	10.21	/	/	<=13	Pass
	3500.01	Outer_Full	10.90	/	/	<=13	Pass
	3519.99	Outer_Full	10.91	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3480	Outer_Full	10.36	/	/	<=13	Pass
	3500.01	Outer_Full	10.94	/	/	<=13	Pass
	3519.99	Outer_Full	12.82	/	/	<=13	Pass
CP-OFDM QPSK	3480	Outer_Full	11.47	/	/	<=13	Pass
	3500.01	Outer_Full	11.58	/	/	<=13	Pass
	3519.99	Outer_Full	11.68	/	/	<=13	Pass
CP-OFDM 16 QAM	3480	Outer_Full	11.61	/	/	<=13	Pass
	3500.01	Outer_Full	11.62	/	/	<=13	Pass
	3519.99	Outer_Full	11.75	/	/	<=13	Pass
CP-OFDM 64 QAM	3480	Outer_Full	11.91	/	/	<=13	Pass
	3500.01	Outer_Full	11.80	/	/	<=13	Pass
	3519.99	Outer_Full	11.70	/	/	<=13	Pass
CP-OFDM 256 QAM	3480	Outer_Full	11.80	/	/	<=13	Pass
	3500.01	Outer_Full	11.68	/	/	<=13	Pass
	3519.99	Outer_Full	11.69	/	/	<=13	Pass



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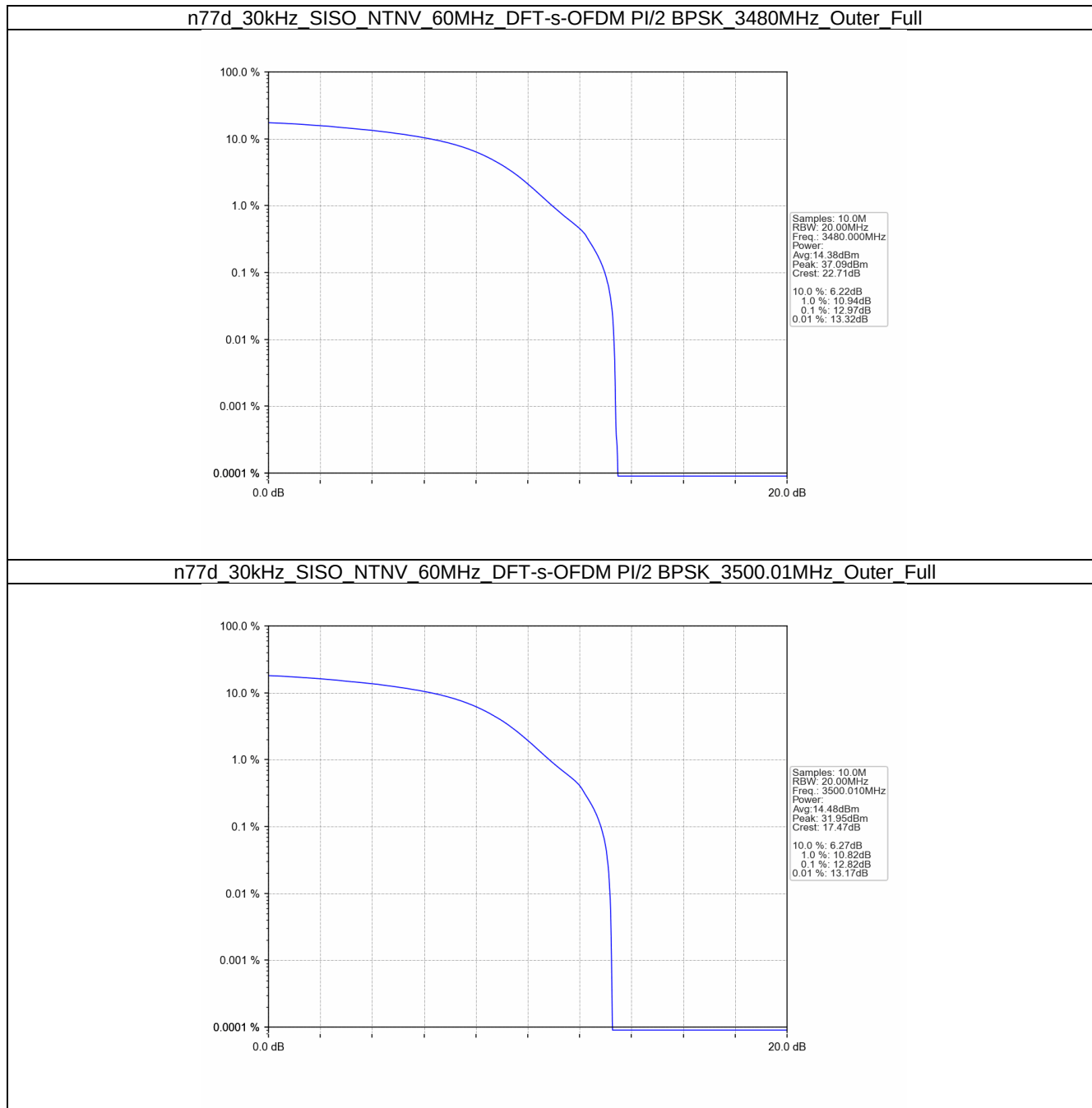
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5.15.2 Test Graph



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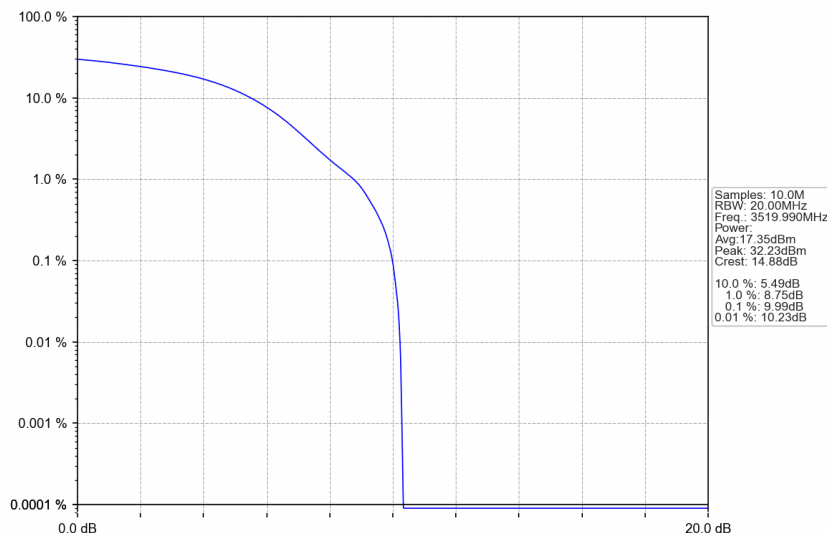
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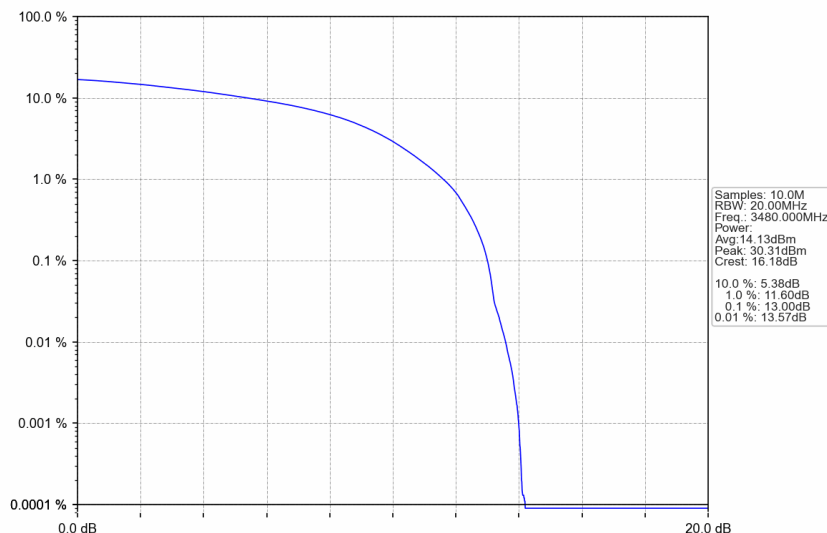
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n77d_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM PI/2 BPSK_3519.99MHz_Outer_Full



n77d_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM QPSK_3480MHz_Outer_Full



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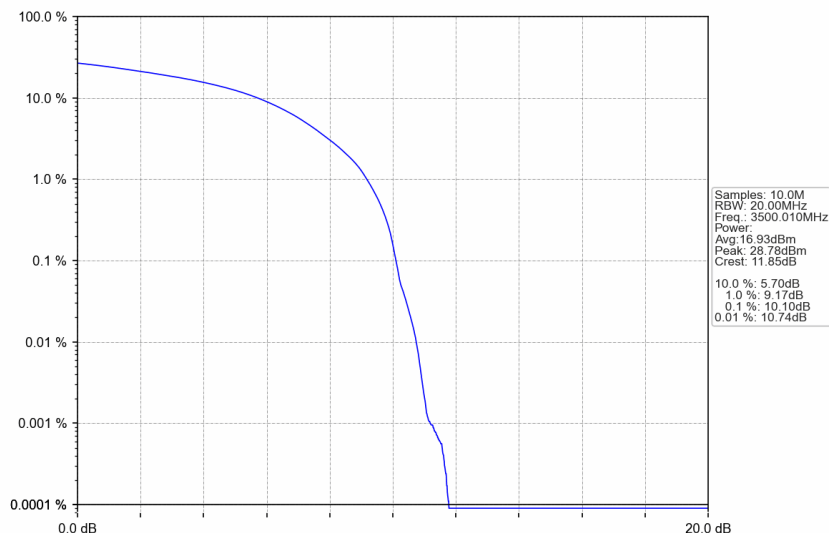
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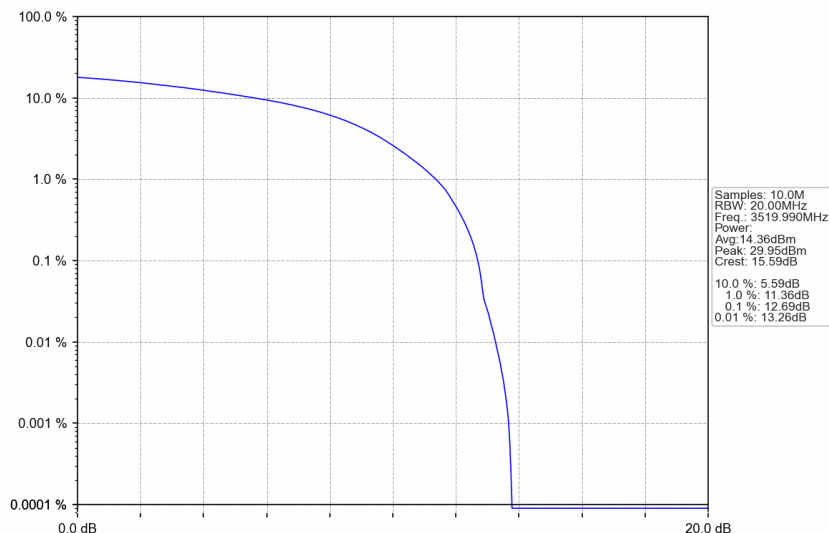
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n77d_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM QPSK_3500.01MHz_Outer_Full



n77d_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM QPSK_3519.99MHz_Outer_Full



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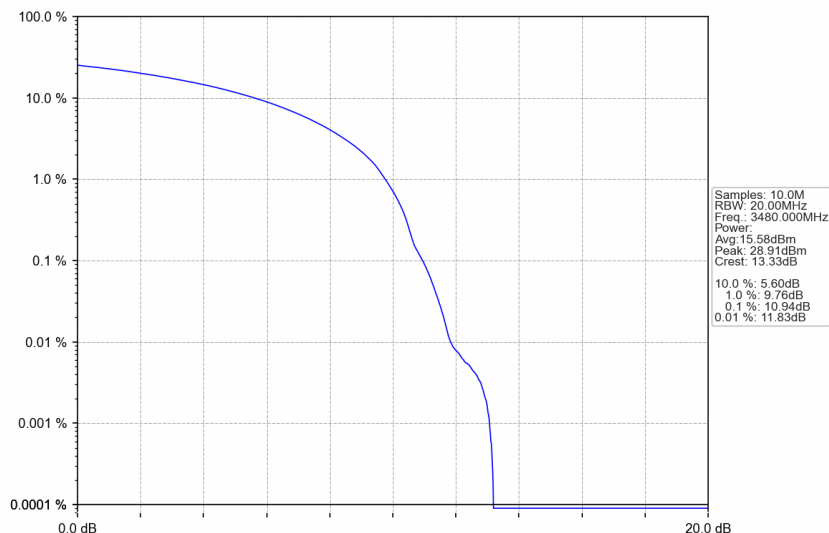
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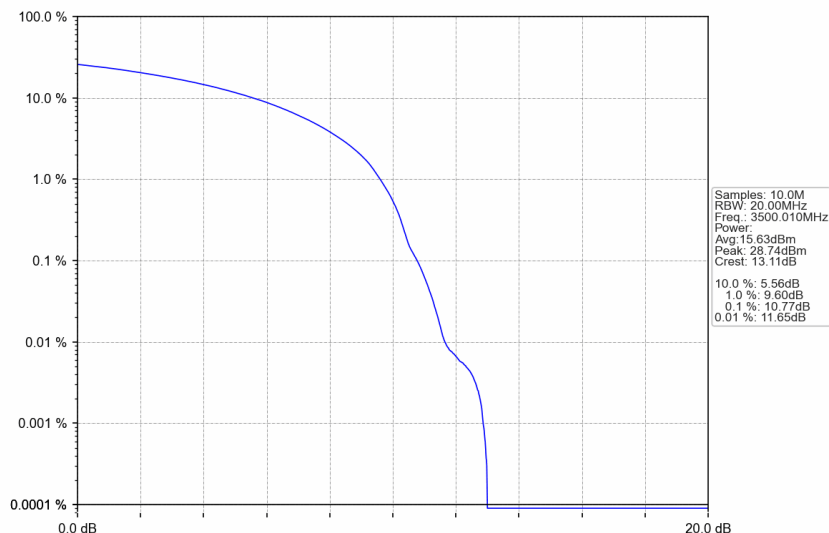
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n77d_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM_16_QAM_3480MHz_Outer_Full



n77d_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM_16_QAM_3500.01MHz_Outer_Full



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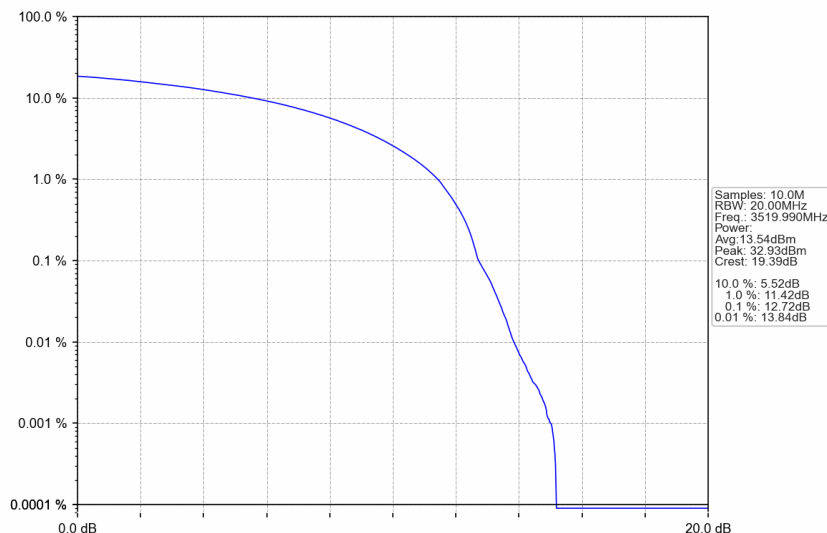
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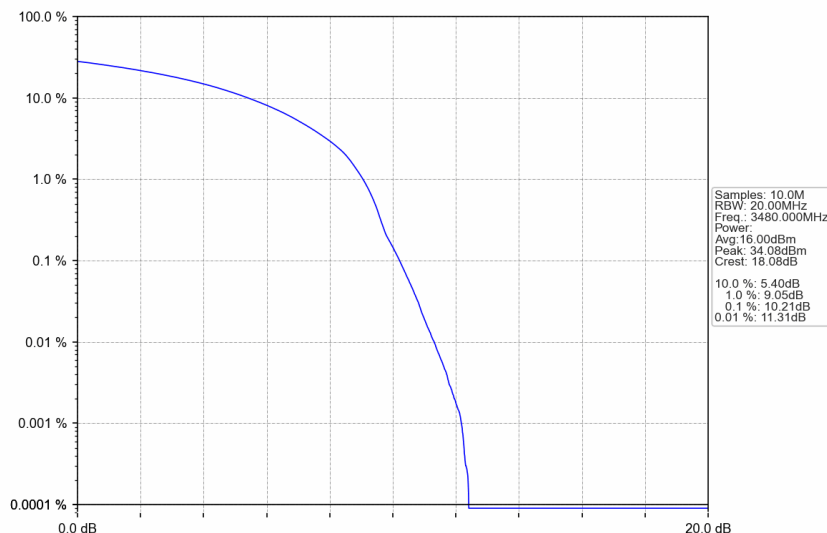
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n77d_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM_64_QAM_3480MHz_Outer_Full



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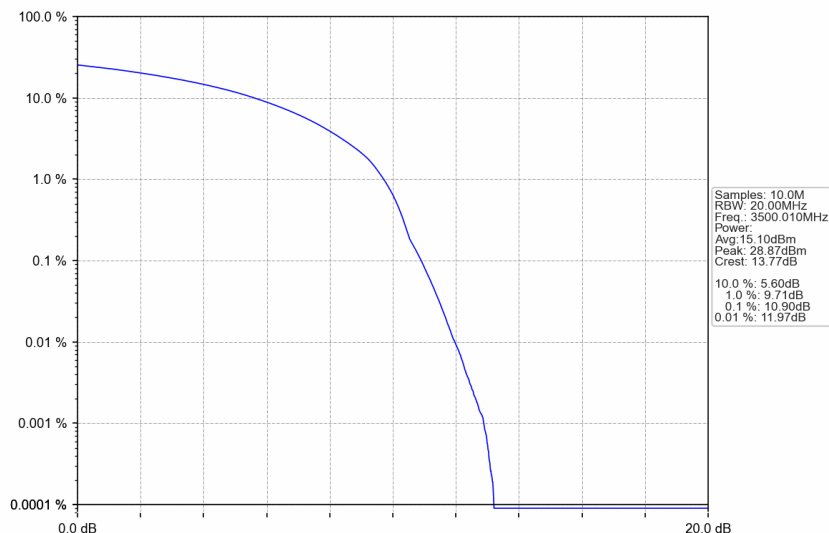
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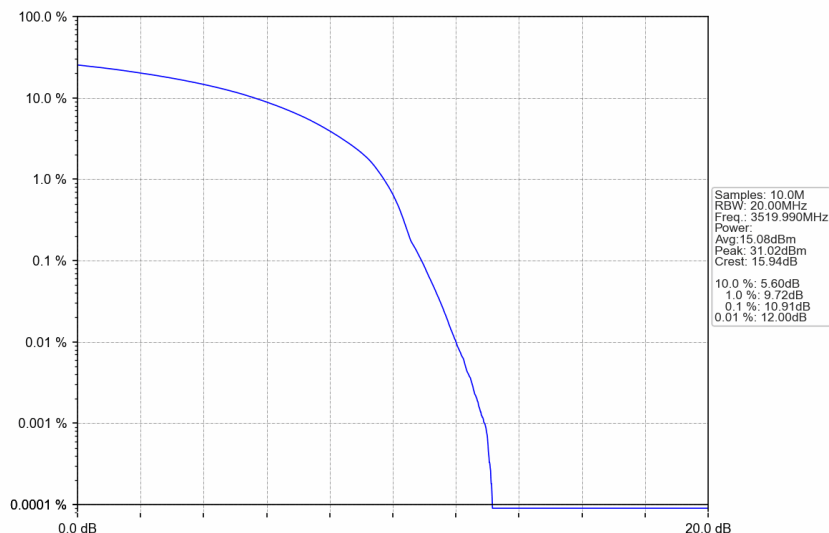
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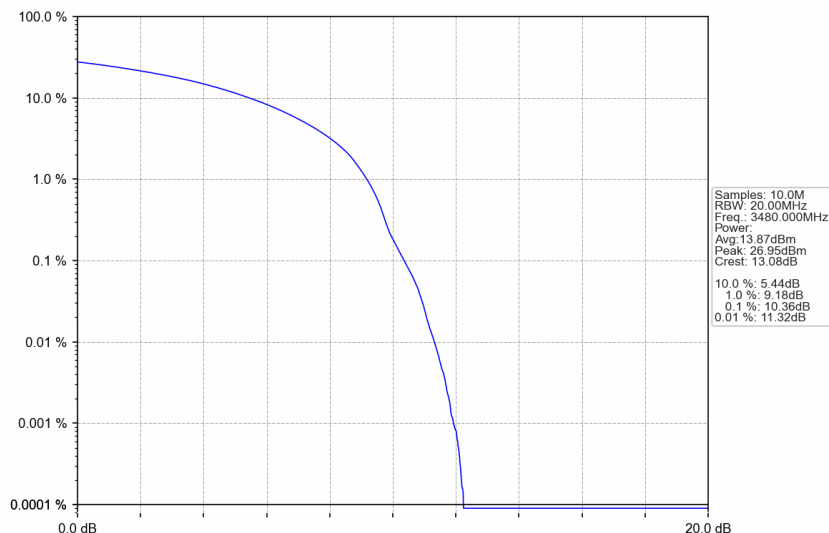
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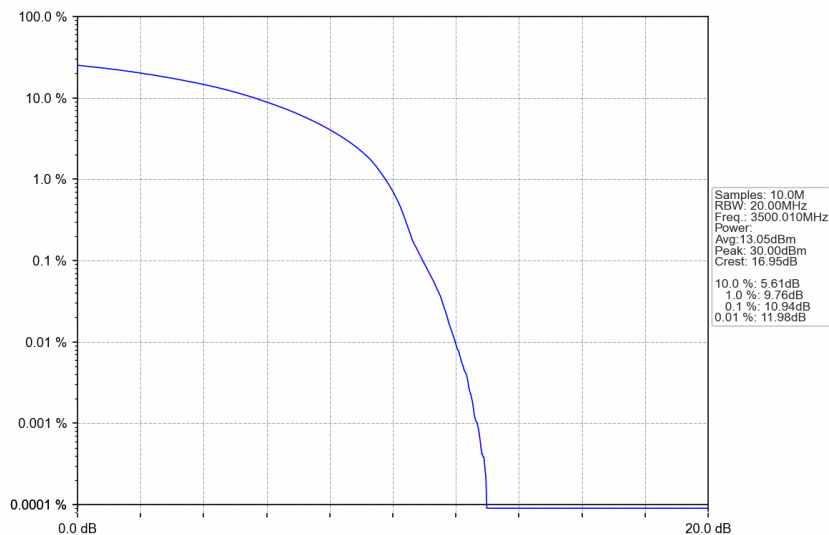
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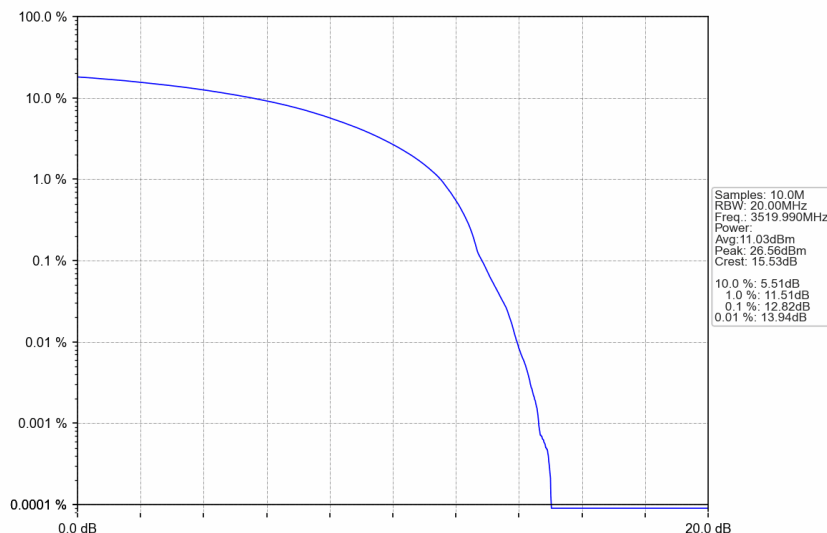
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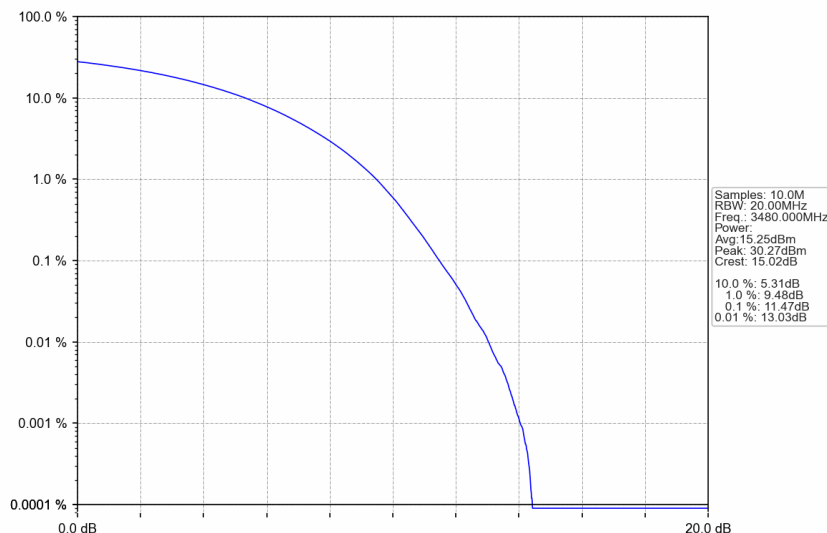
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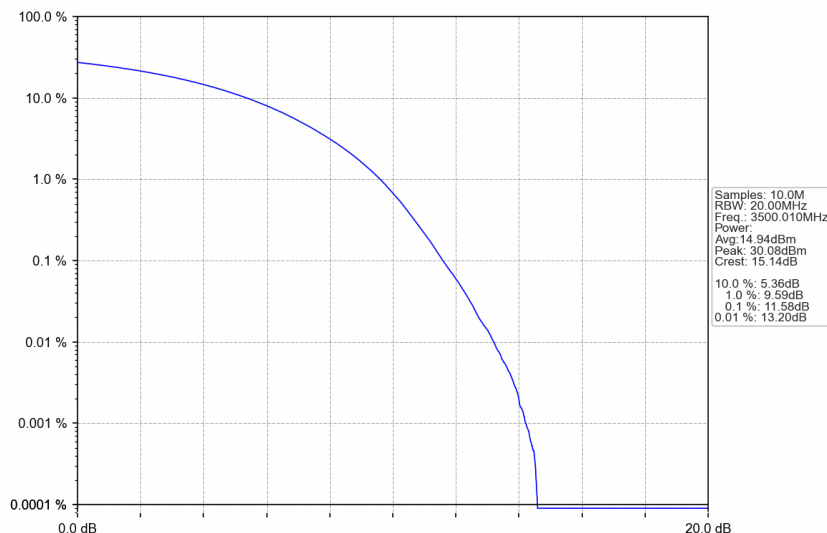
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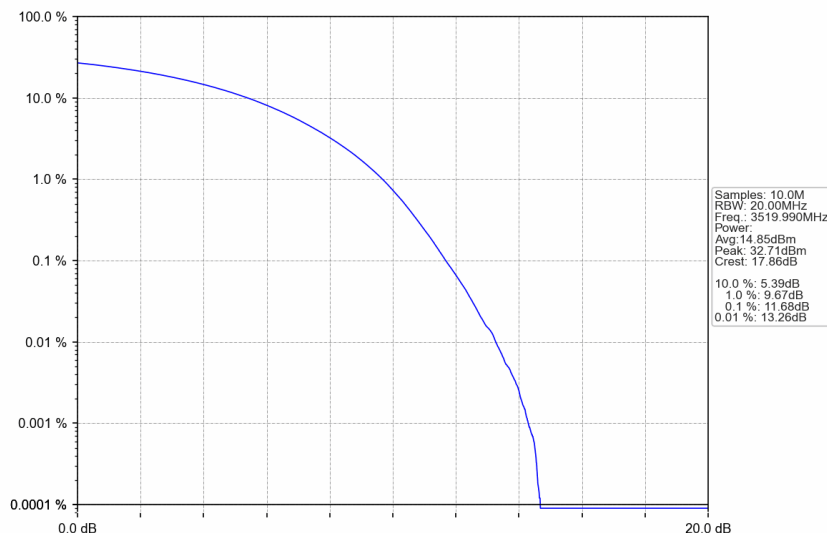
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n77d_30kHz_SISO_NTNV_60MHz_CP-OFDM QPSK_3500.01MHz_Outer_Full



n77d_30kHz_SISO_NTNV_60MHz_CP-OFDM QPSK_3519.99MHz_Outer_Full



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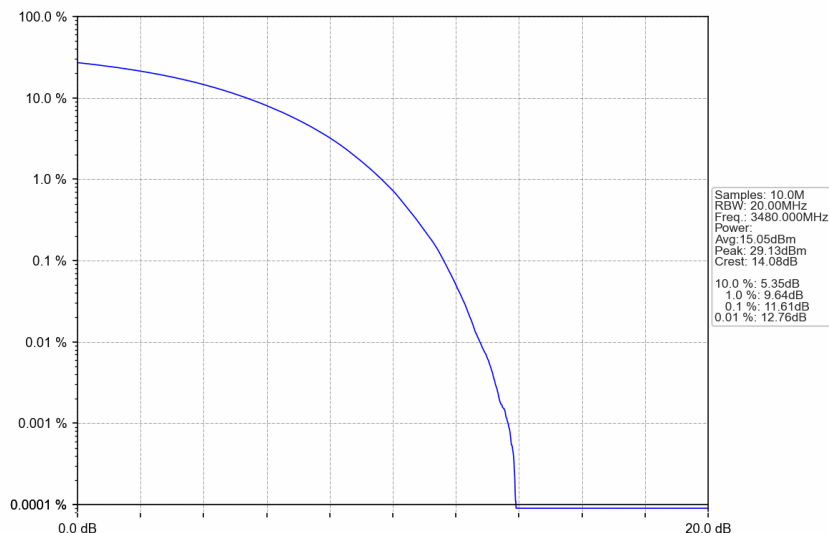
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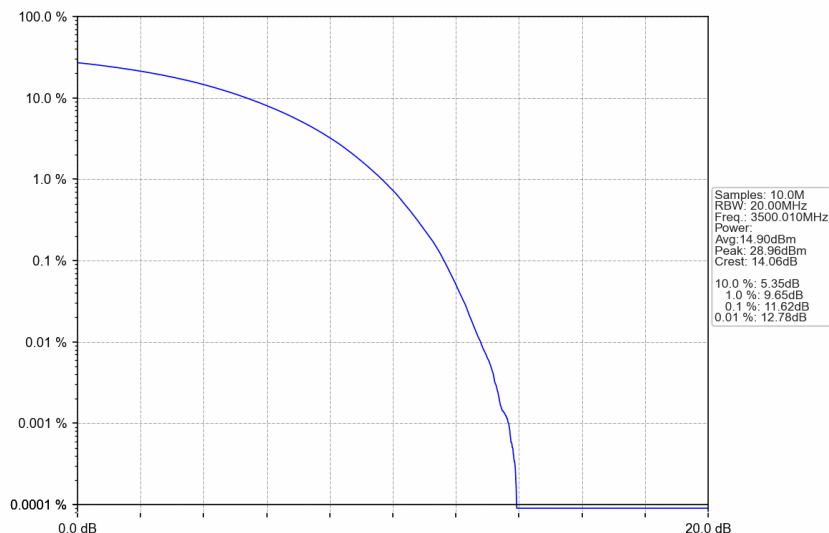
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n77d_30kHz_SISO_NTNV_60MHz_CP-OFDM_16_QAM_3480MHz_Outer_Full



n77d_30kHz_SISO_NTNV_60MHz_CP-OFDM_16_QAM_3500.01MHz_Outer_Full



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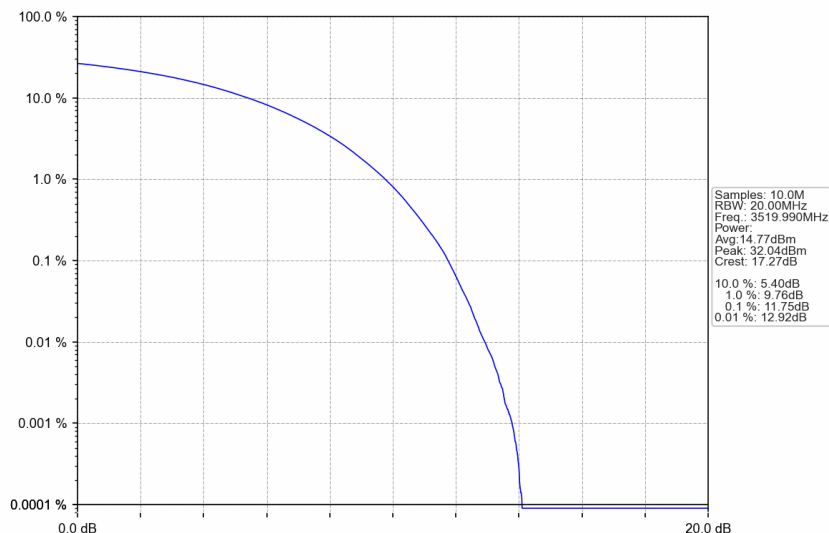
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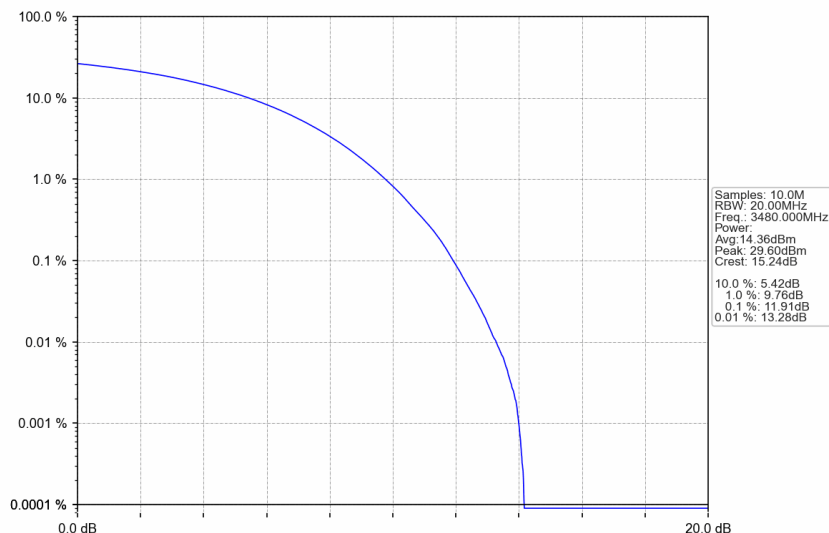
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n77d_30kHz_SISO_NTNV_60MHz_CP-OFDM 16 QAM_3519.99MHz_Outer_Full



n77d_30kHz_SISO_NTNV_60MHz_CP-OFDM 64 QAM_3480MHz_Outer_Full



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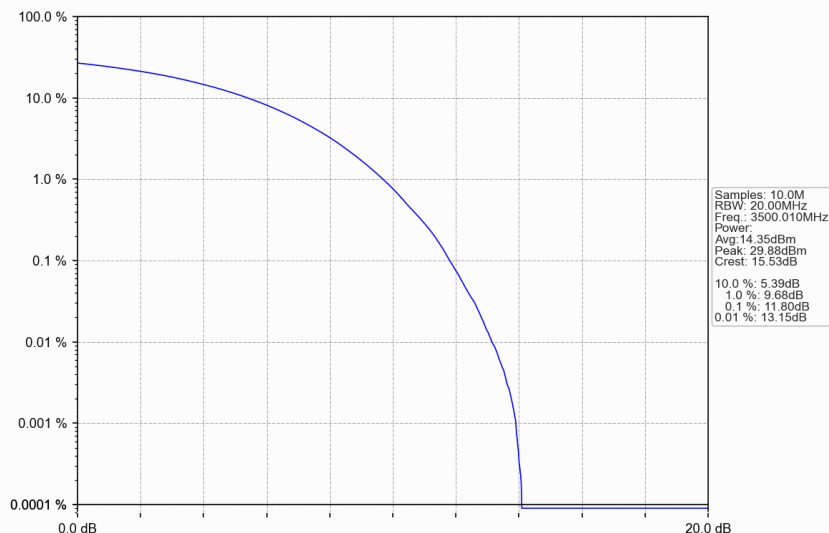
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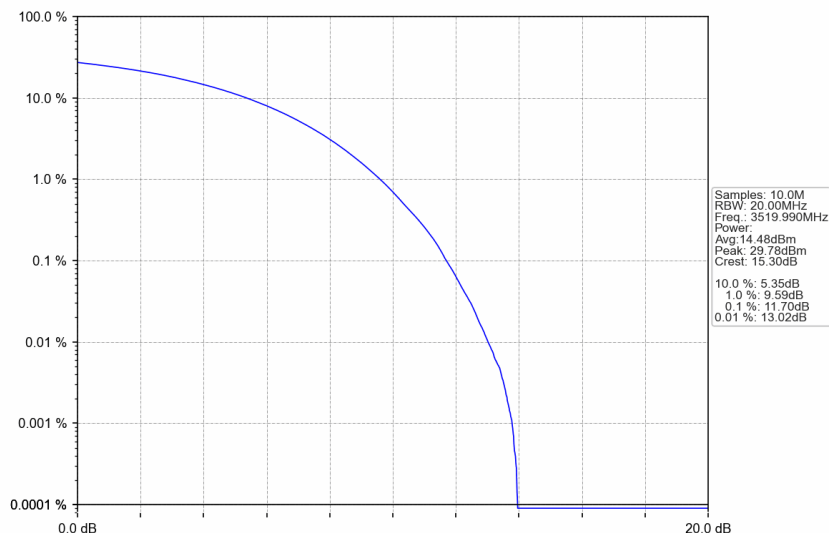
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n77d_30kHz_SISO_NTNV_60MHz_CP-OFDM 64 QAM_3500.01MHz_Outer_Full



n77d_30kHz_SISO_NTNV_60MHz_CP-OFDM 64 QAM_3519.99MHz_Outer_Full



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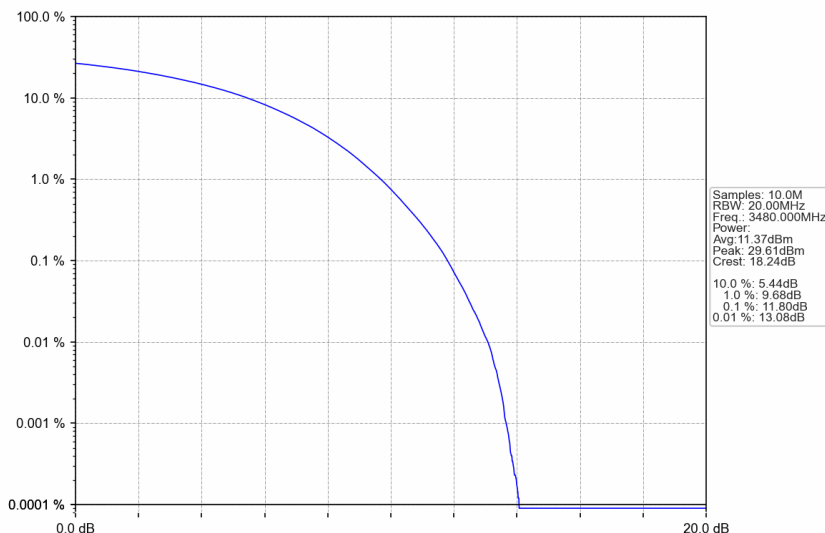
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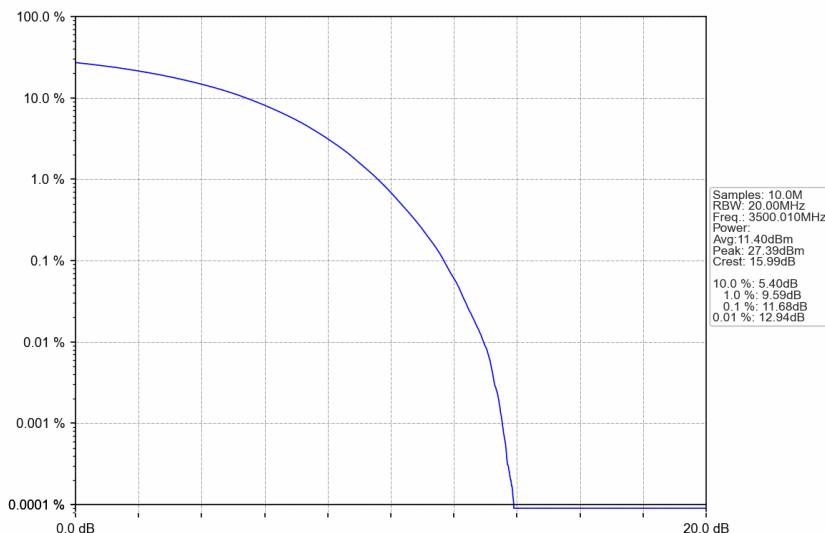
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n77d_30kHz_SISO_NTNV_60MHz_CP-OFDM 256 QAM_3480MHz_Outer_Full



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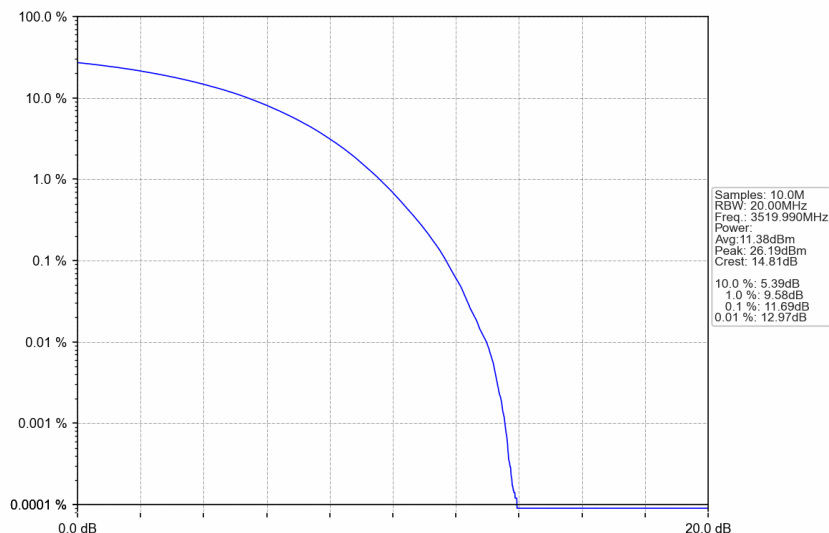
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5.16 30k_SISO_70MHz_NTNV

5.16.1 Test Result

5G NR n77d SCS=30kHz SISO 70MHz NTV							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant5	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3485.01	Outer_Full	11.89	/	/	<=13	Pass
	3500.01	Outer_Full	11.08	/	/	<=13	Pass
	3514.98	Outer_Full	11.33	/	/	<=13	Pass
DFT-s-OFDM QPSK	3485.01	Outer_Full	12.70	/	/	<=13	Pass
	3500.01	Outer_Full	12.85	/	/	<=13	Pass
	3514.98	Outer_Full	12.93	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3485.01	Outer_Full	11.06	/	/	<=13	Pass
	3500.01	Outer_Full	10.78	/	/	<=13	Pass
	3514.98	Outer_Full	10.70	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3485.01	Outer_Full	10.34	/	/	<=13	Pass
	3500.01	Outer_Full	10.19	/	/	<=13	Pass
	3514.98	Outer_Full	11.01	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3485.01	Outer_Full	10.80	/	/	<=13	Pass
	3500.01	Outer_Full	10.61	/	/	<=13	Pass
	3514.98	Outer_Full	10.75	/	/	<=13	Pass
CP-OFDM QPSK	3485.01	Outer_Full	11.87	/	/	<=13	Pass
	3500.01	Outer_Full	11.81	/	/	<=13	Pass
	3514.98	Outer_Full	11.60	/	/	<=13	Pass
CP-OFDM 16 QAM	3485.01	Outer_Full	11.63	/	/	<=13	Pass
	3500.01	Outer_Full	11.67	/	/	<=13	Pass
	3514.98	Outer_Full	11.53	/	/	<=13	Pass
CP-OFDM 64 QAM	3485.01	Outer_Full	11.60	/	/	<=13	Pass
	3500.01	Outer_Full	11.82	/	/	<=13	Pass
	3514.98	Outer_Full	11.71	/	/	<=13	Pass
CP-OFDM 256 QAM	3485.01	Outer_Full	11.54	/	/	<=13	Pass
	3500.01	Outer_Full	11.67	/	/	<=13	Pass
	3514.98	Outer_Full	11.65	/	/	<=13	Pass



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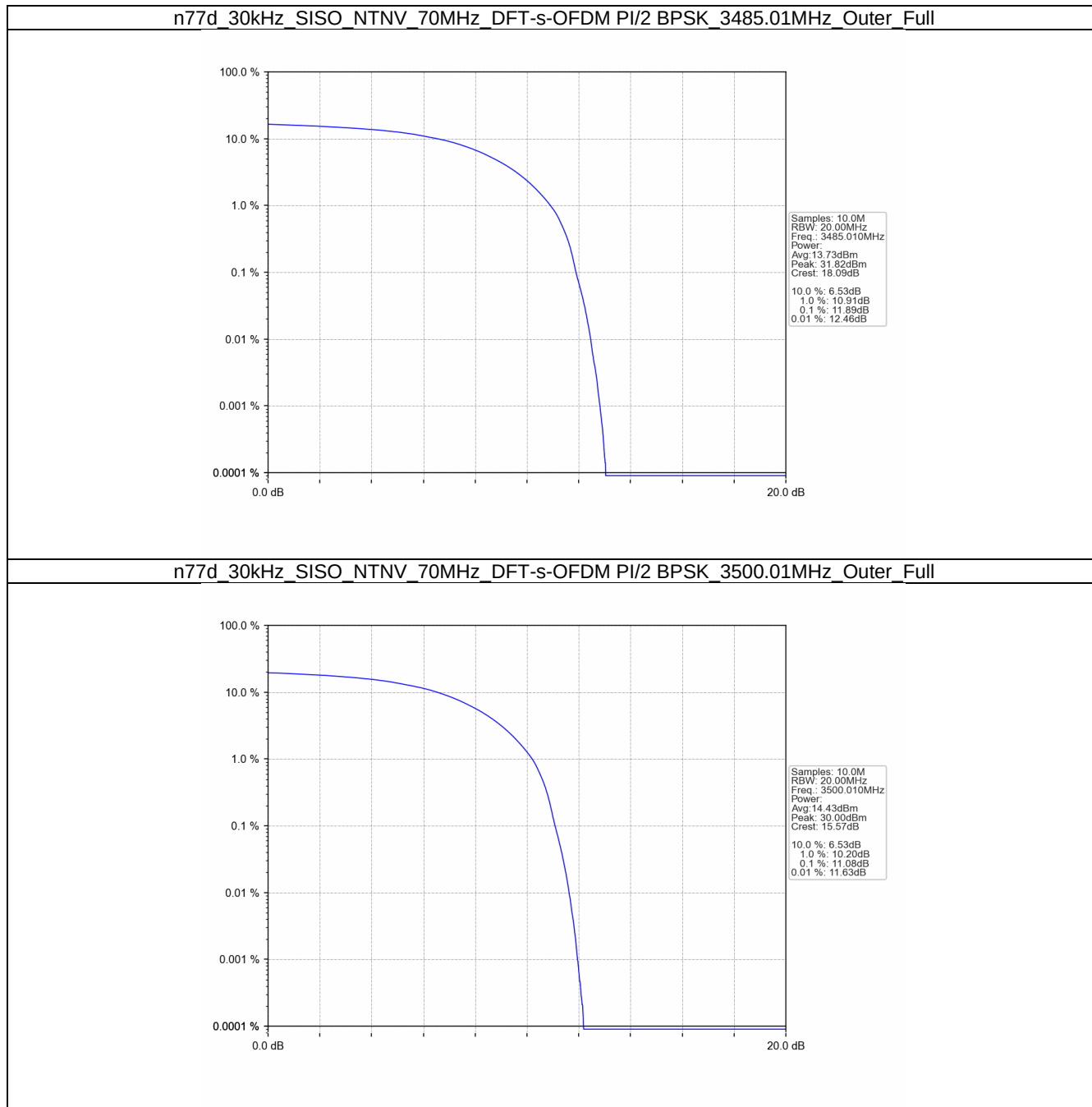
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5.16.2 Test Graph



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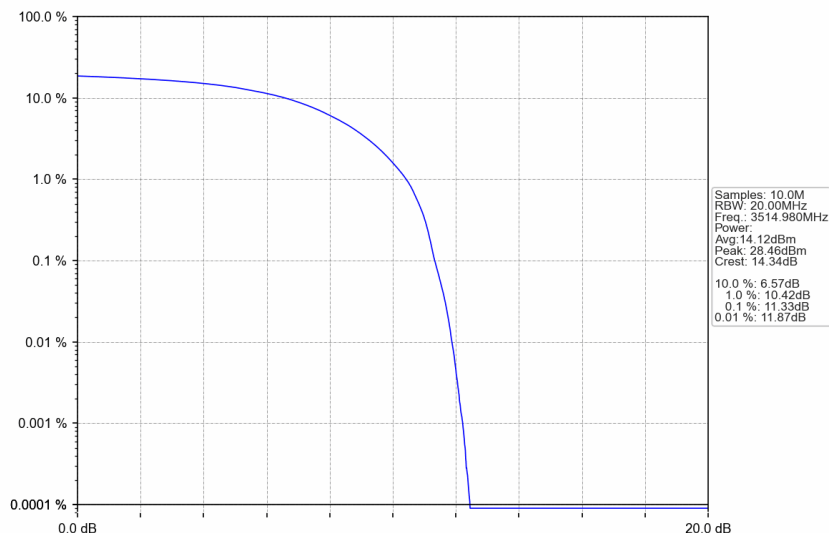
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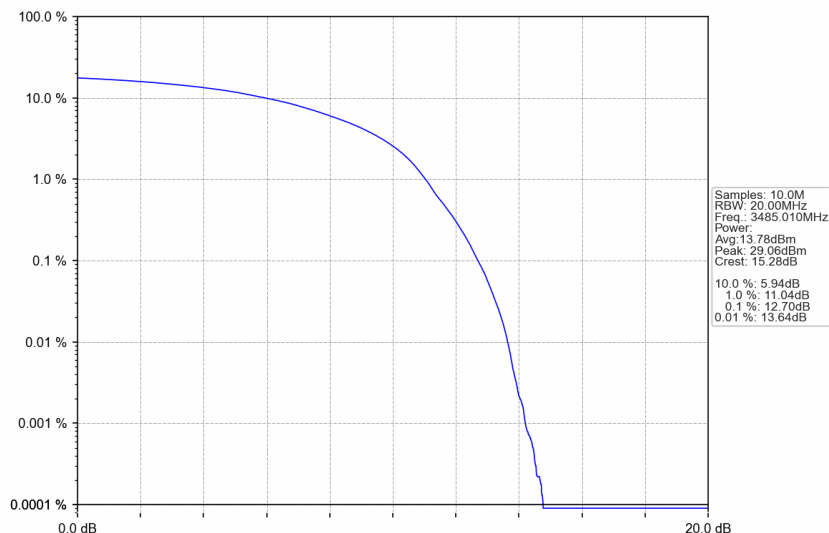
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n77d_30kHz_SISO_NTNV_70MHz_DFT-s-OFDM QPSK_3485.01MHz_Outer_Full



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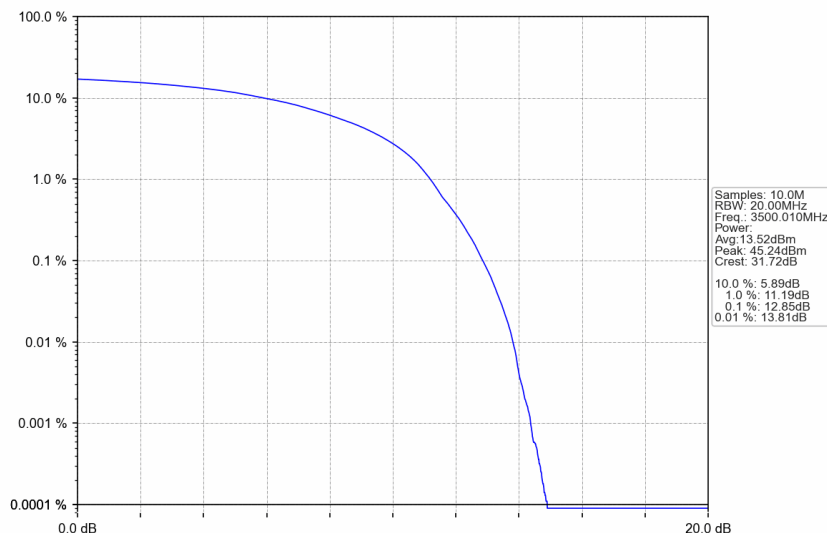
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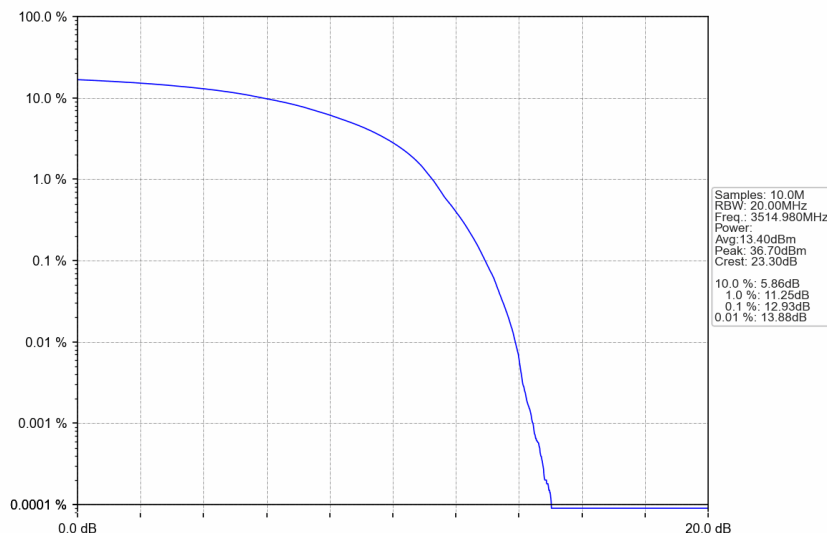
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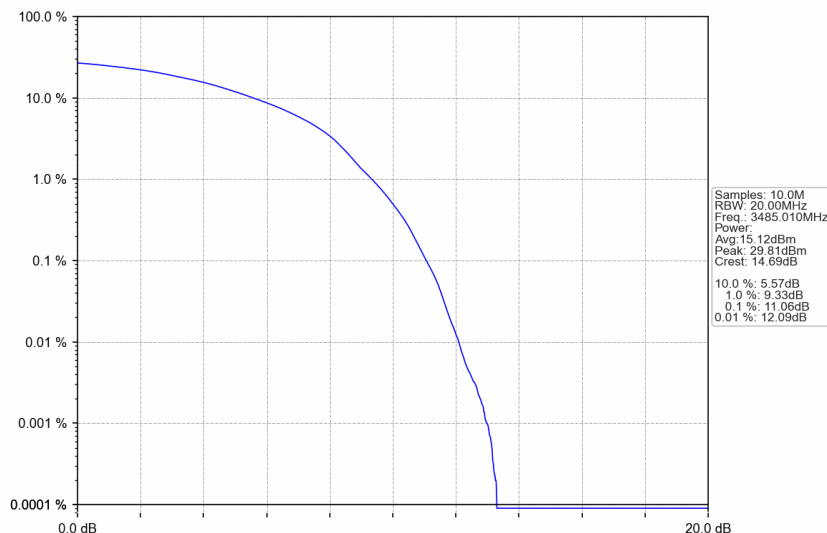
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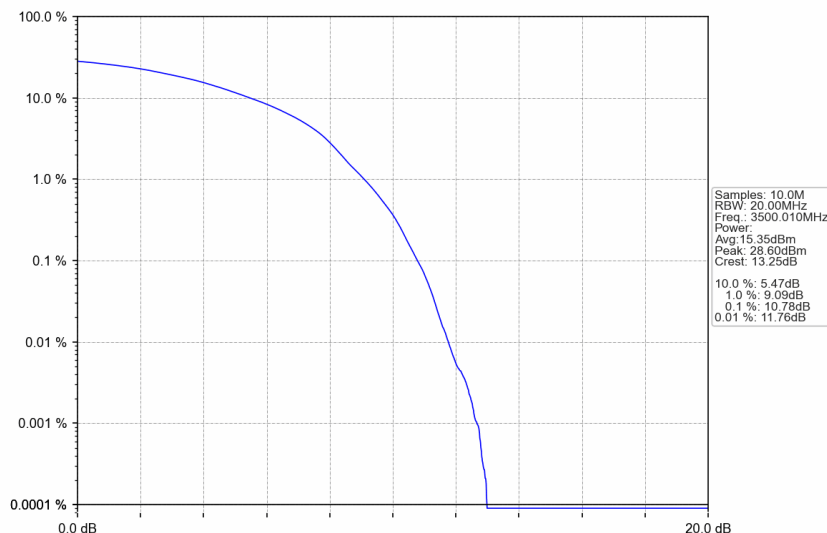
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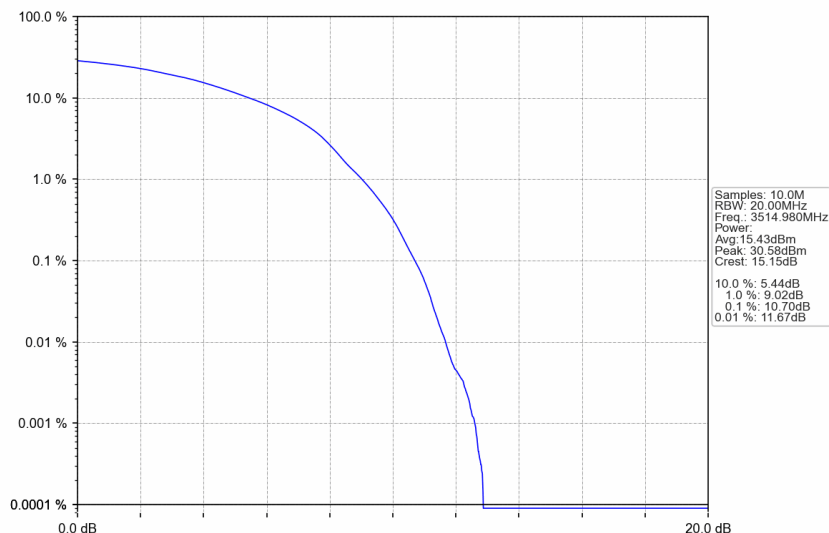
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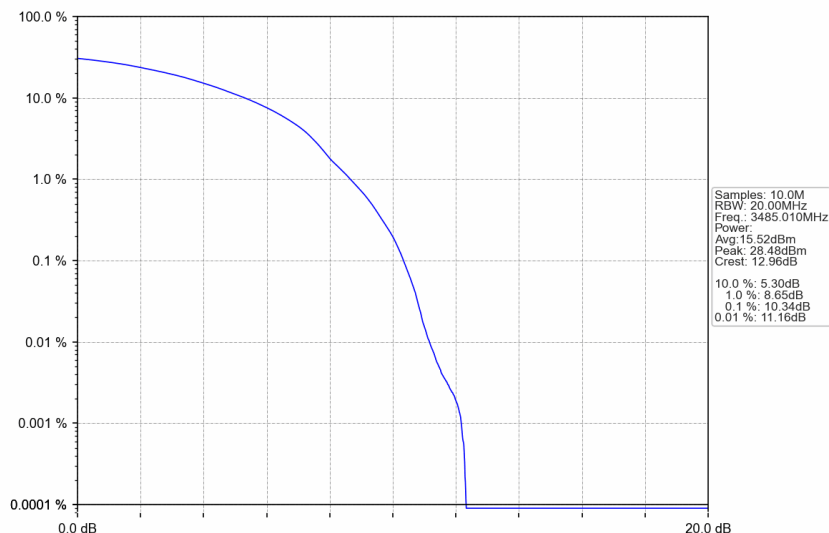
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n77d_30kHz_SISO_NTNV_70MHz_DFT-s-OFDM_16_QAM_3514.98MHz_Outer_Full



n77d_30kHz_SISO_NTNV_70MHz_DFT-s-OFDM_64_QAM_3485.01MHz_Outer_Full



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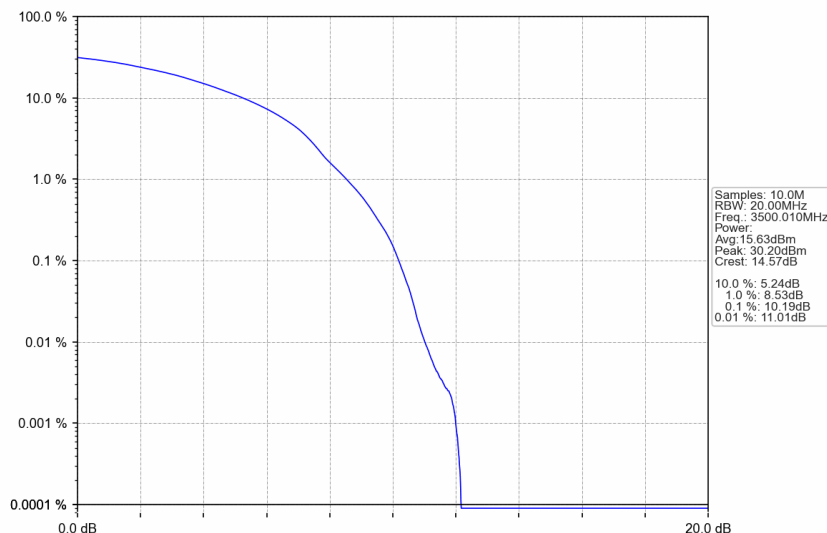
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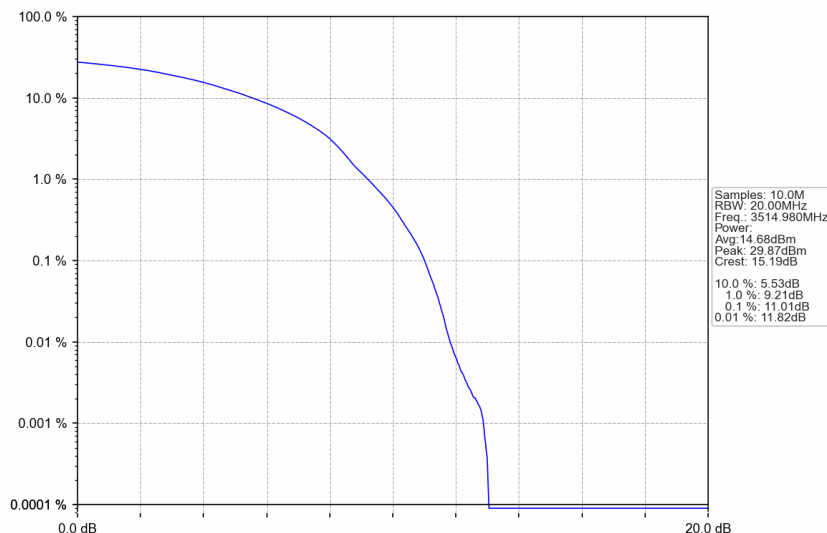
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n77d_30kHz_SISO_NTNV_70MHz_DFT-s-OFDM_64_QAM_3514.98MHz_Outer_Full



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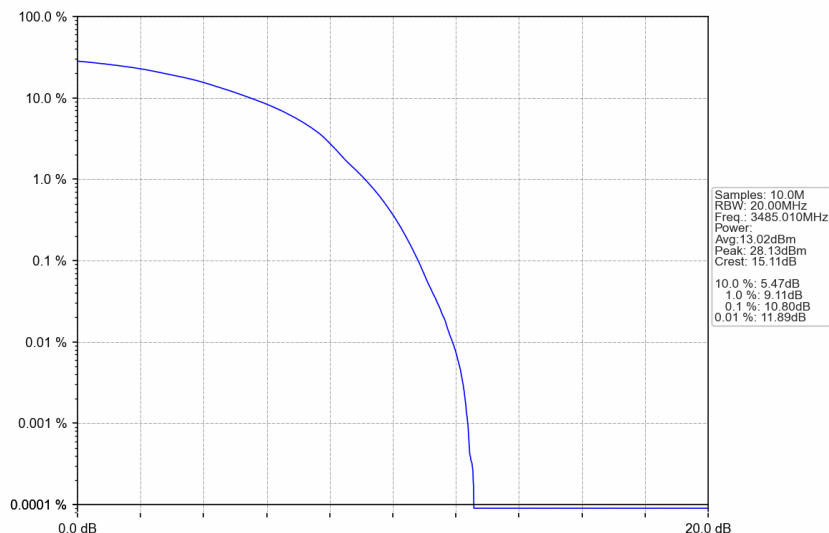
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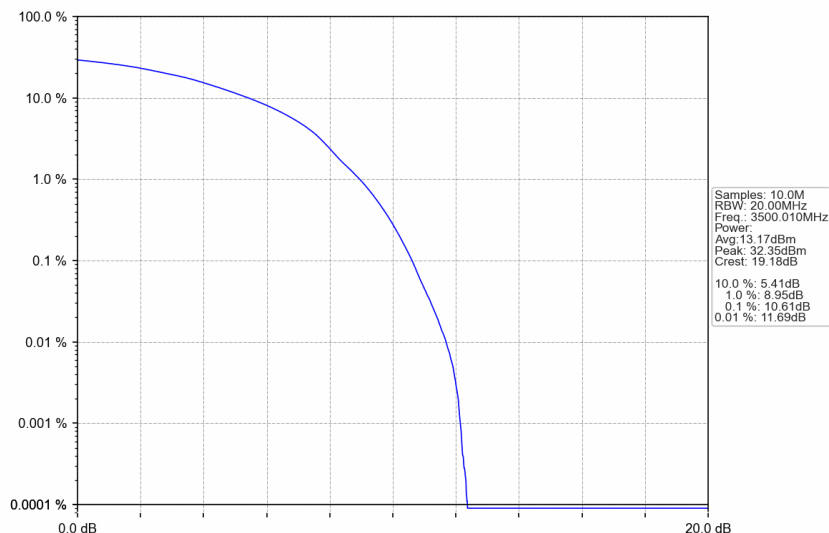
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n77d_30kHz_SISO_NTNV_70MHz_DFT-s-OFDM_256_QAM_3485.01MHz_Outer_Full



n77d_30kHz_SISO_NTNV_70MHz_DFT-s-OFDM_256_QAM_3500.01MHz_Outer_Full



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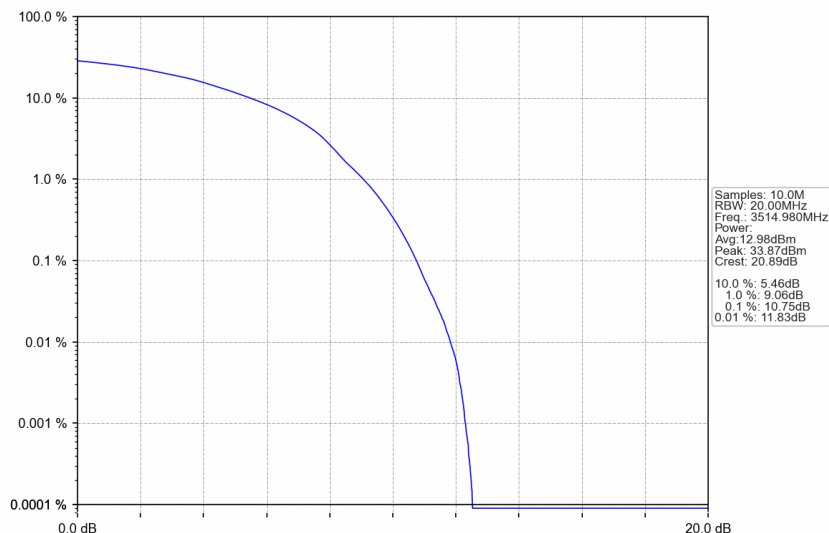
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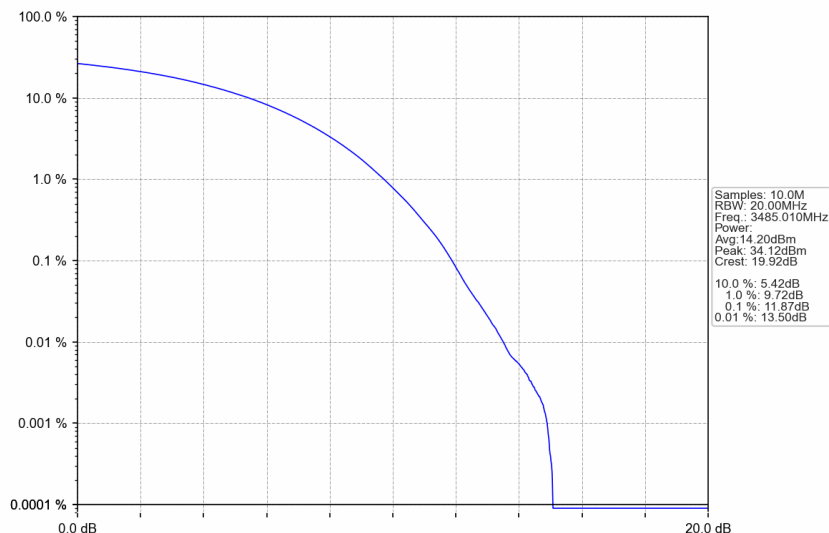
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n77d_30kHz_SISO_NTNV_70MHz_CP-OFDM_QPSK_3485.01MHz_Outer_Full



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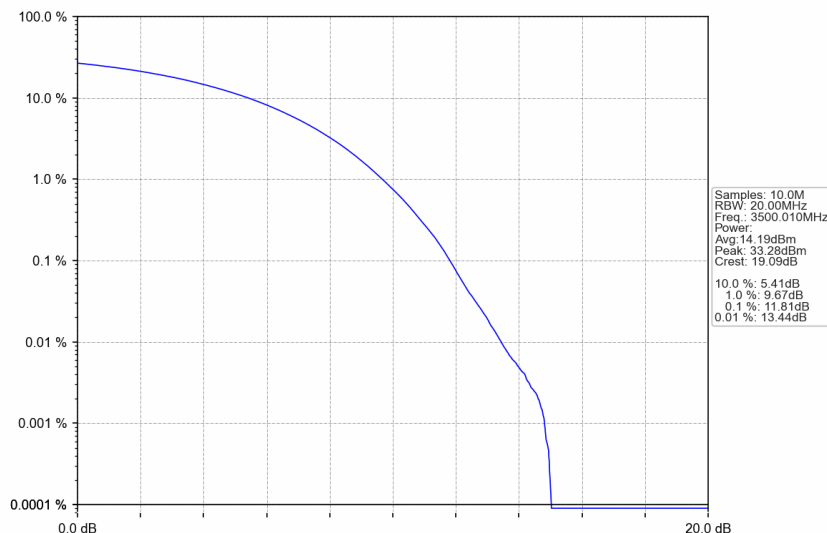
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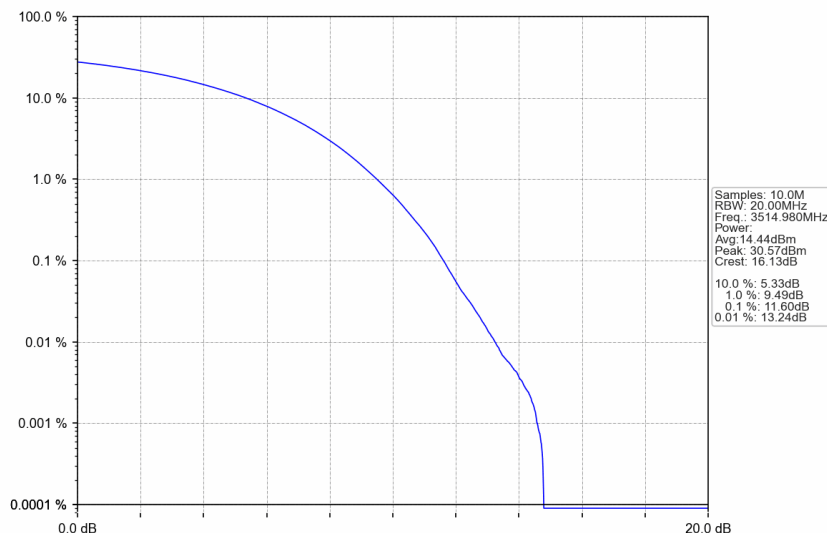
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n77d_30kHz_SISO_NTNV_70MHz_CP-OFDM QPSK_3500.01MHz_Outer_Full



n77d_30kHz_SISO_NTNV_70MHz_CP-OFDM QPSK_3514.98MHz_Outer_Full



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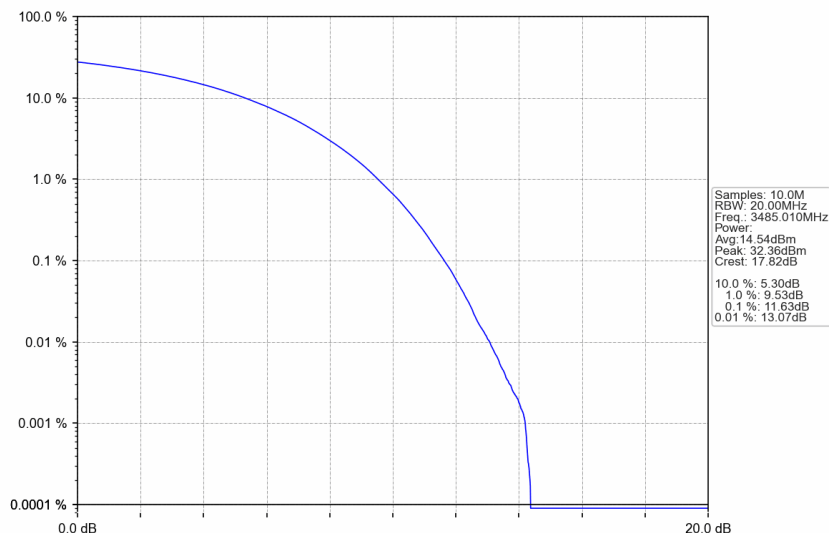
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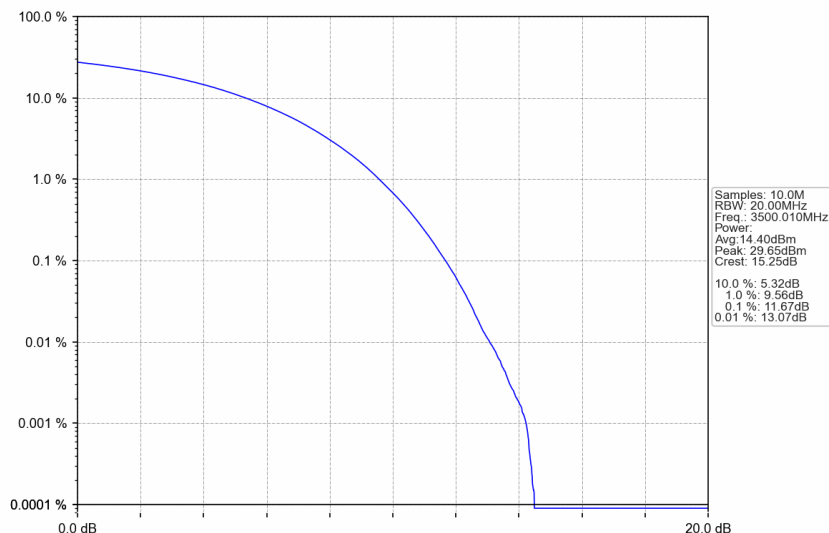
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