

5G NR N48

1. Peak-Average Ratio

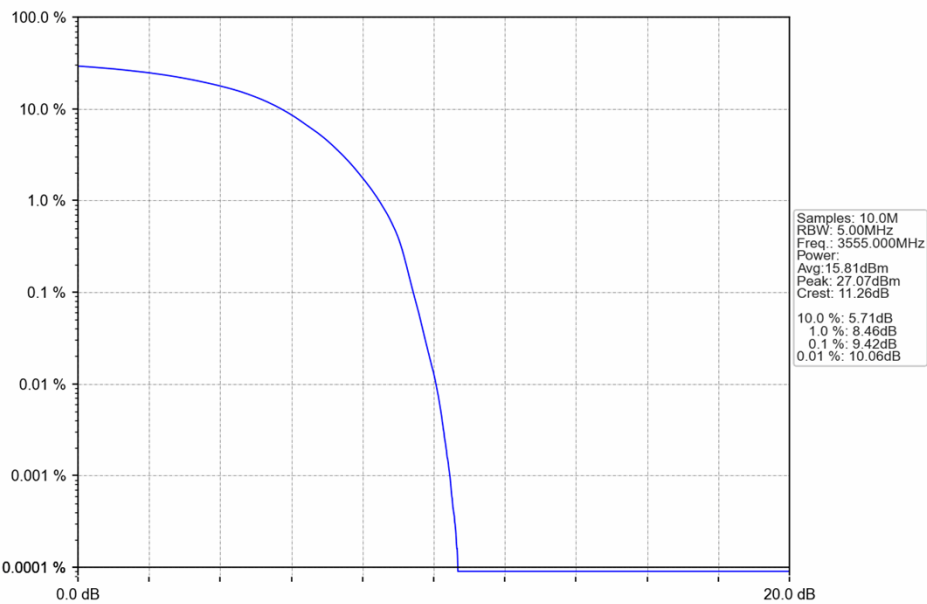
1.1 30k_SISO_10MHz_NTNV

1.1.1 Test Result

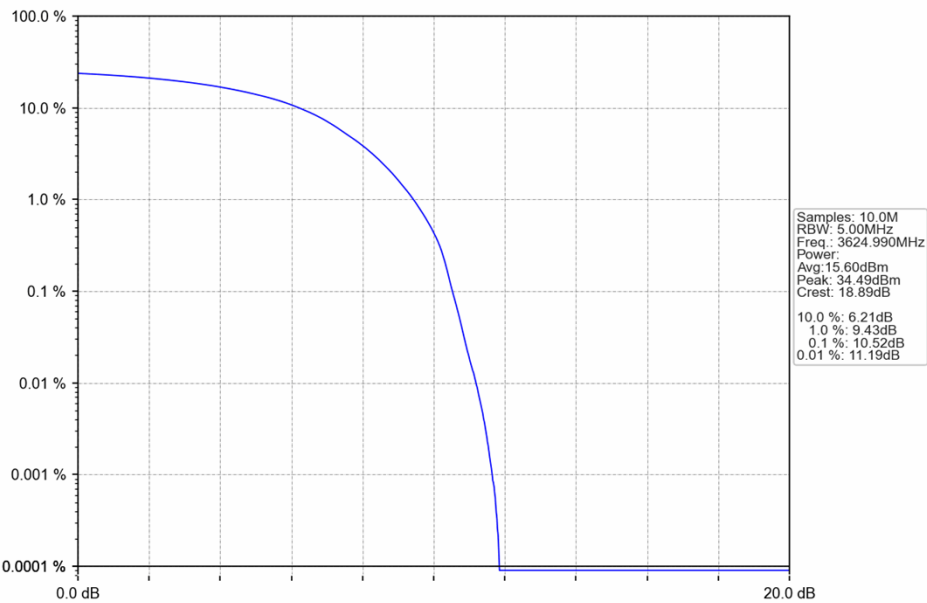
5G NR n48 SCS=30kHz SISO 10MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM QPSK	3555	Outer_Full	9.42	/	/	<=13	Pass
	3624.99	Outer_Full	10.52	/	/	<=13	Pass
	3694.98	Outer_Full	10.63	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3555	Outer_Full	10.26	/	/	<=13	Pass
	3624.99	Outer_Full	11.56	/	/	<=13	Pass
	3694.98	Outer_Full	11.43	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3555	Outer_Full	10.33	/	/	<=13	Pass
	3624.99	Outer_Full	11.48	/	/	<=13	Pass
	3694.98	Outer_Full	11.54	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3555	Outer_Full	10.50	/	/	<=13	Pass
	3624.99	Outer_Full	11.56	/	/	<=13	Pass
	3694.98	Outer_Full	11.58	/	/	<=13	Pass
CP-OFDM QPSK	3555	Outer_Full	11.61	/	/	<=13	Pass
	3624.99	Outer_Full	12.62	/	/	<=13	Pass
	3694.98	Outer_Full	12.70	/	/	<=13	Pass
CP-OFDM 16 QAM	3555	Outer_Full	11.72	/	/	<=13	Pass
	3624.99	Outer_Full	12.97	/	/	<=13	Pass
	3694.98	Outer_Full	12.71	/	/	<=13	Pass
CP-OFDM 64 QAM	3555	Outer_Full	11.83	/	/	<=13	Pass
	3624.99	Outer_Full	12.88	/	/	<=13	Pass
	3694.98	Outer_Full	12.74	/	/	<=13	Pass
CP-OFDM 256 QAM	3555	Outer_Full	12.91	/	/	<=13	Pass
	3624.99	Outer_Full	12.70	/	/	<=13	Pass
	3694.98	Outer_Full	12.69	/	/	<=13	Pass

1.1.2 Test Graph

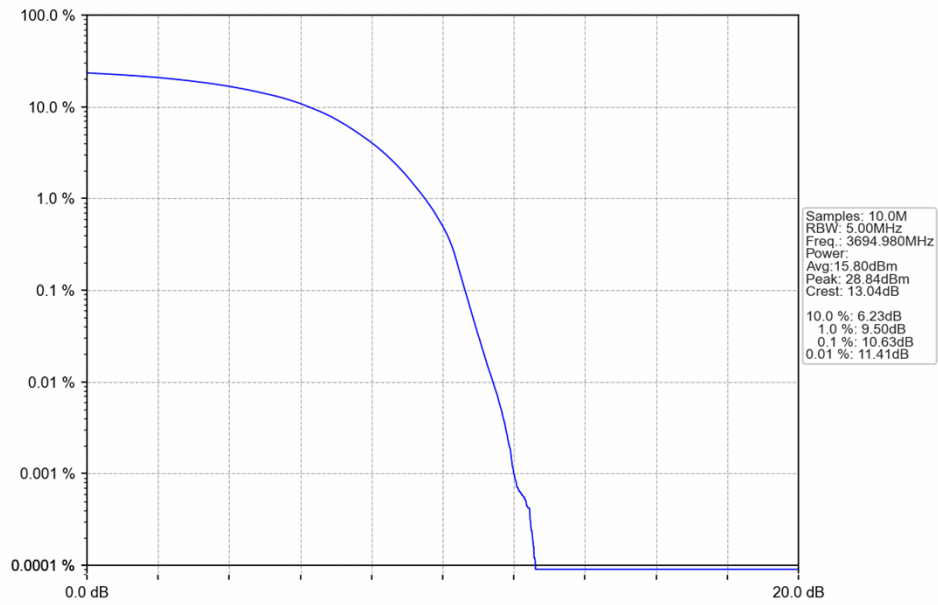
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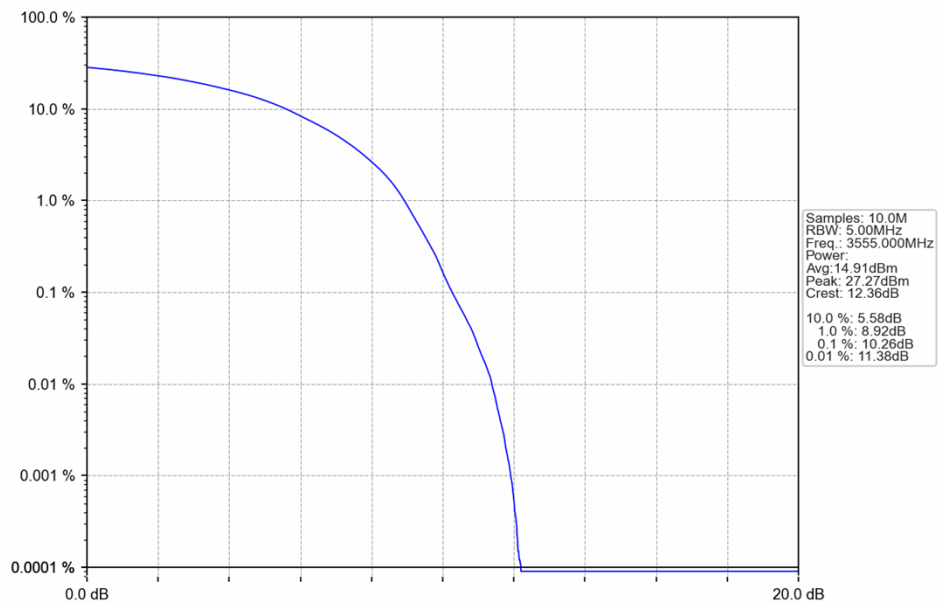
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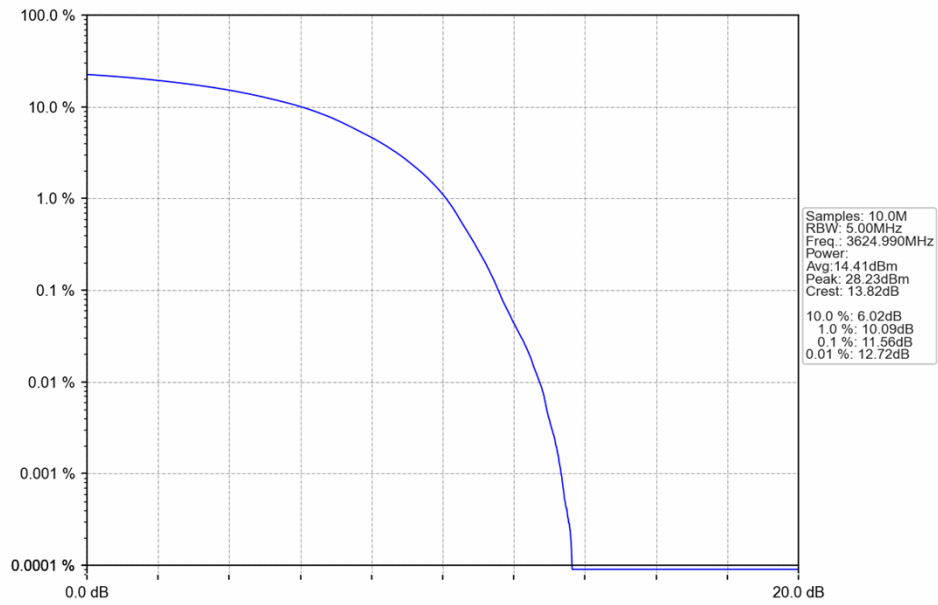
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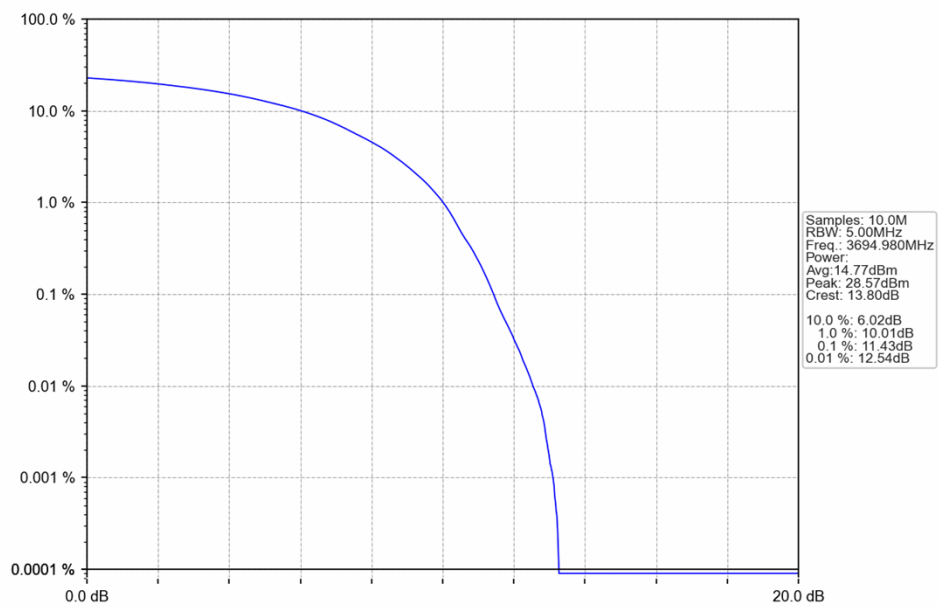
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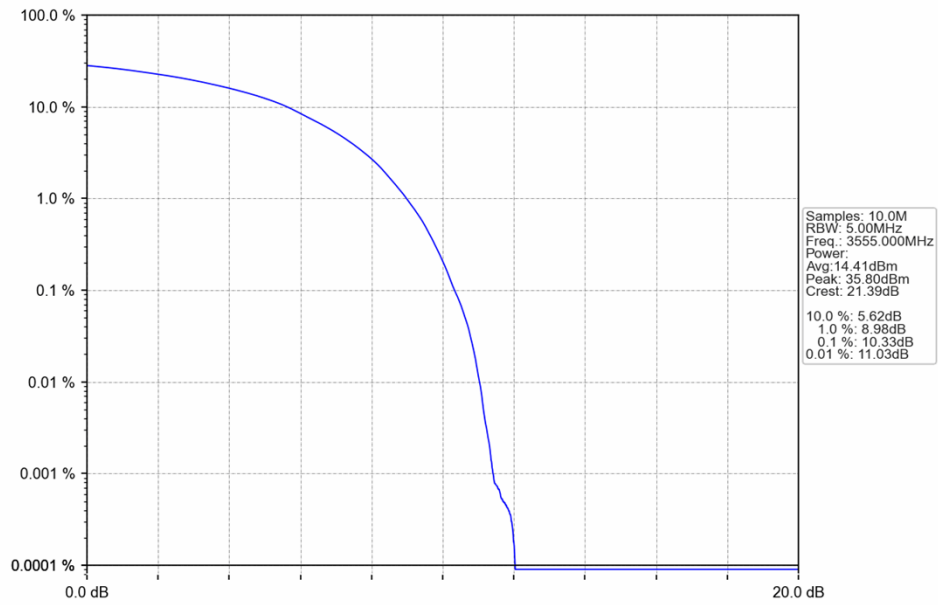
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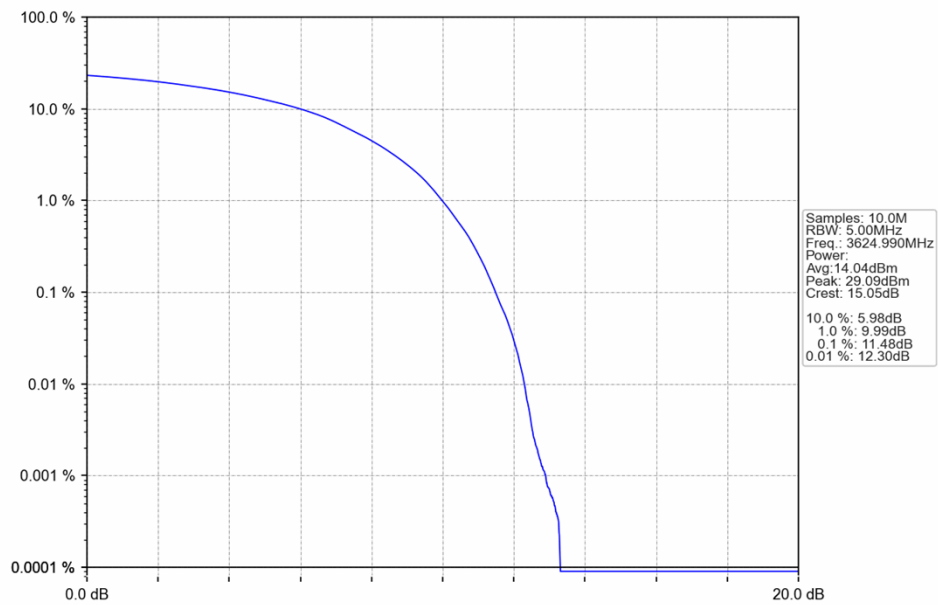
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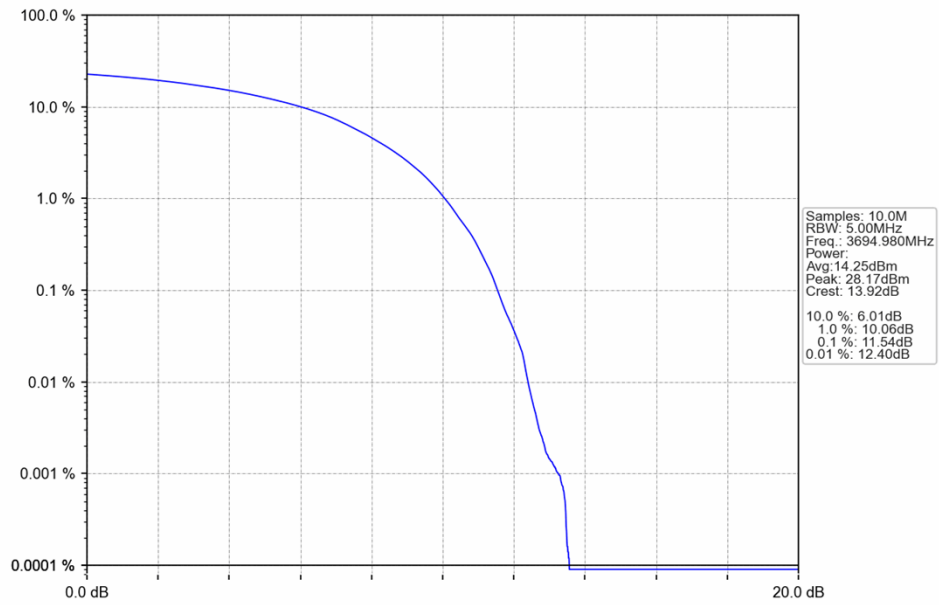
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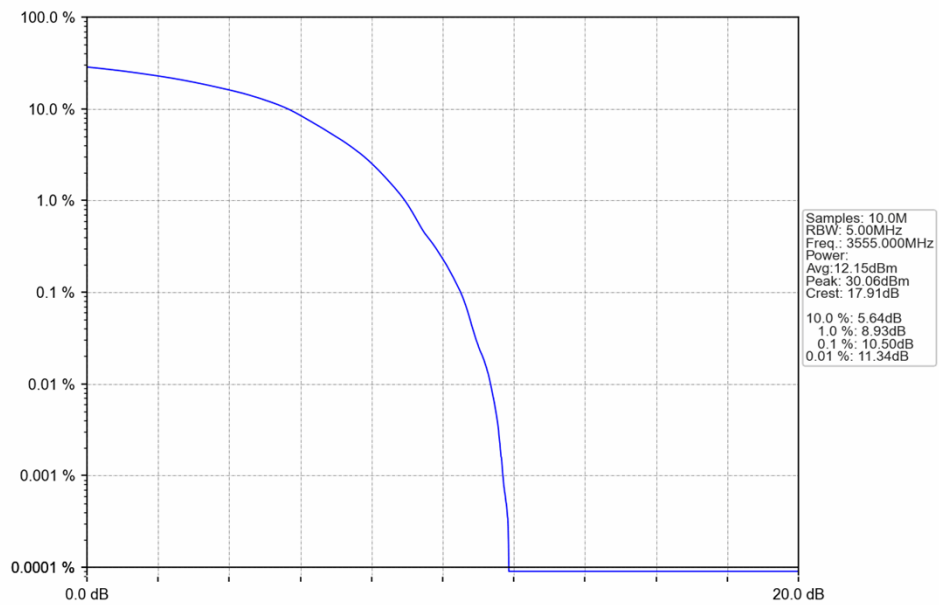
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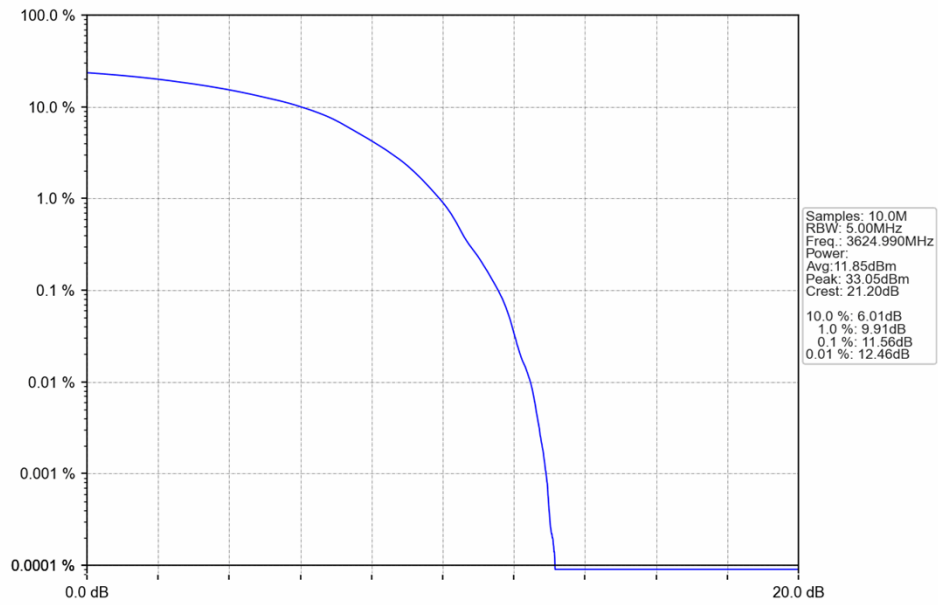
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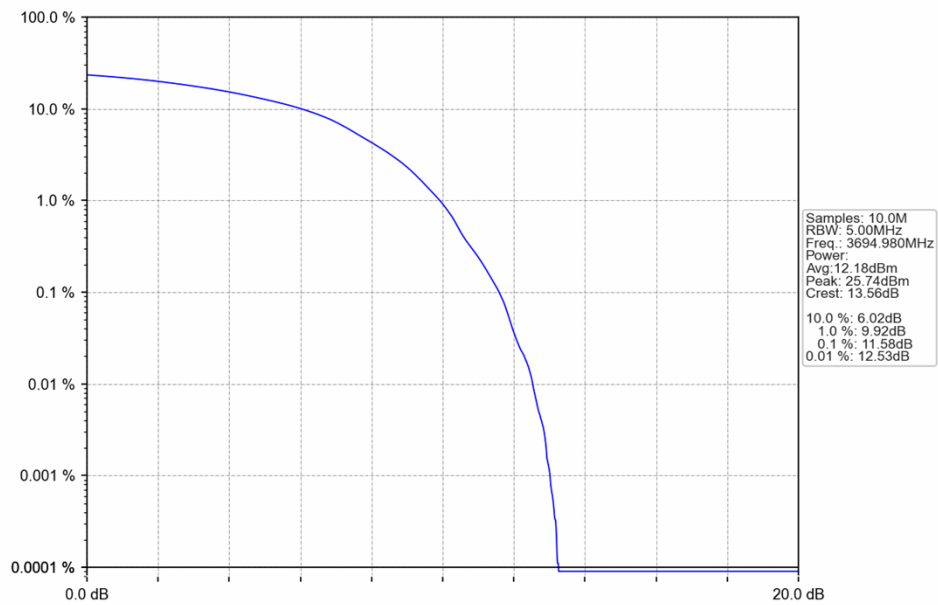
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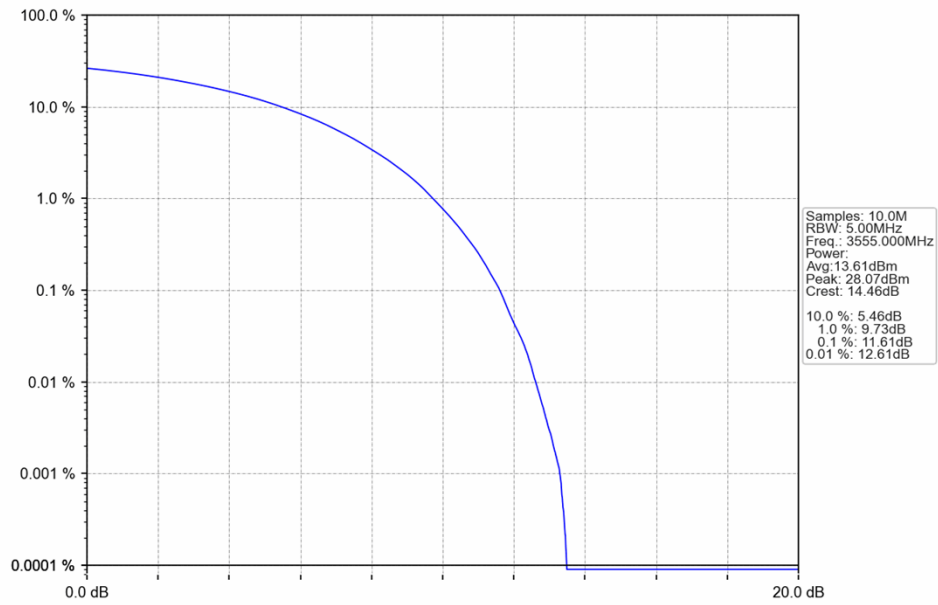
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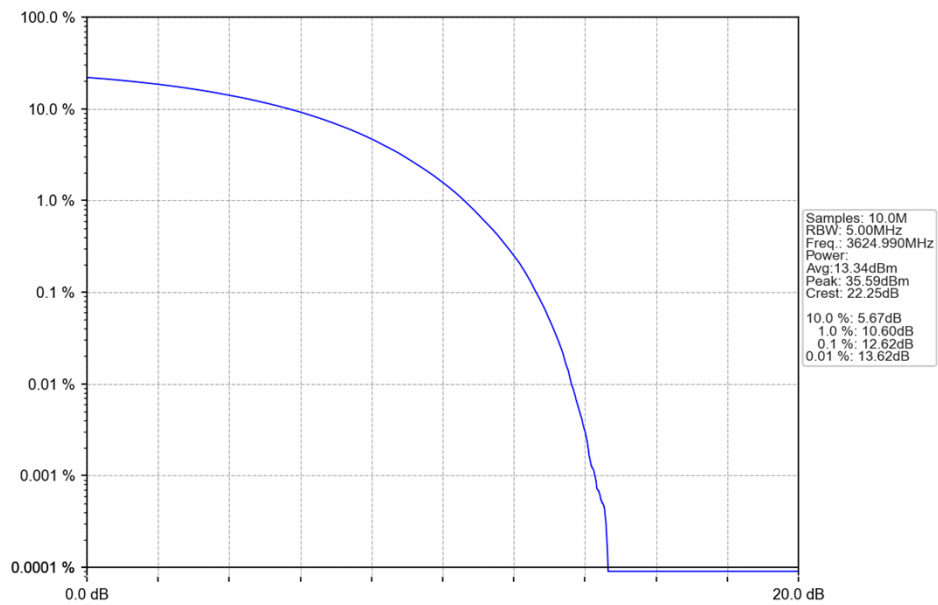
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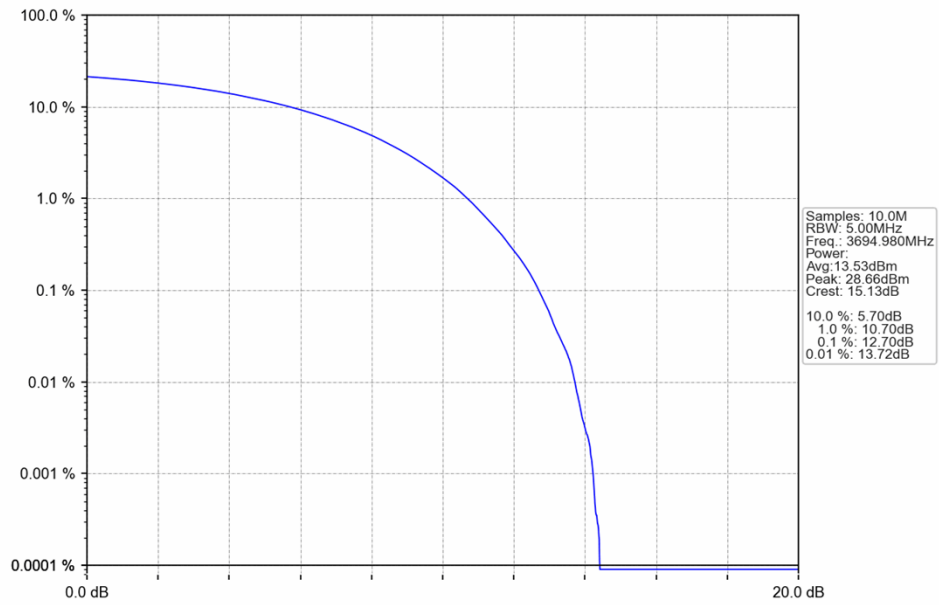
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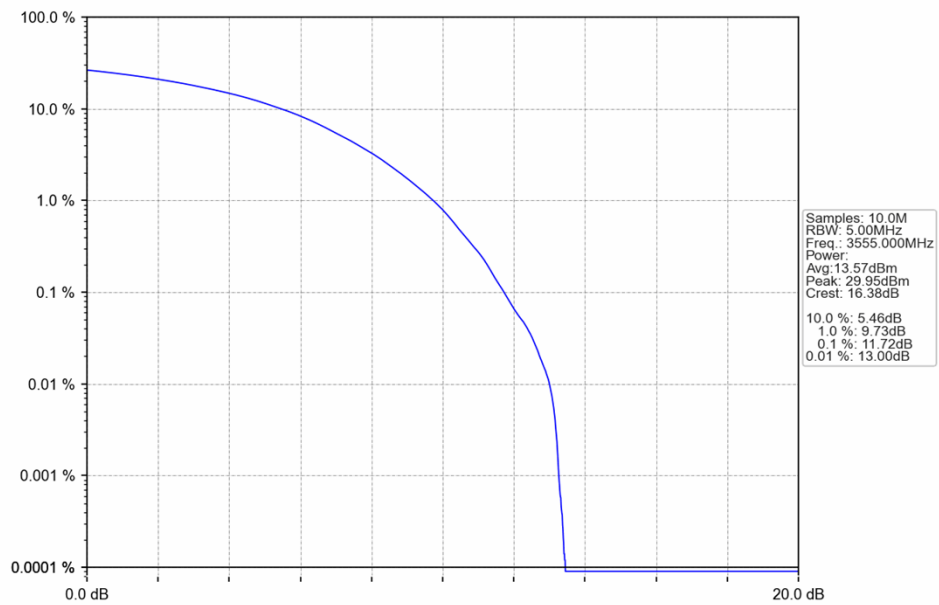
n48_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_3624.99MHz_Outer_Full



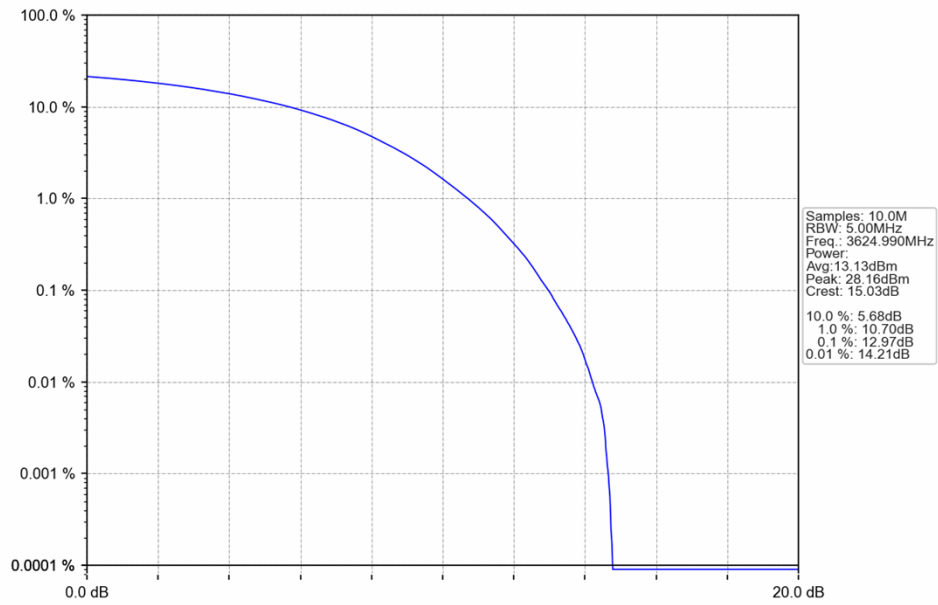
n48_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_3694.98MHz_Outer_Full



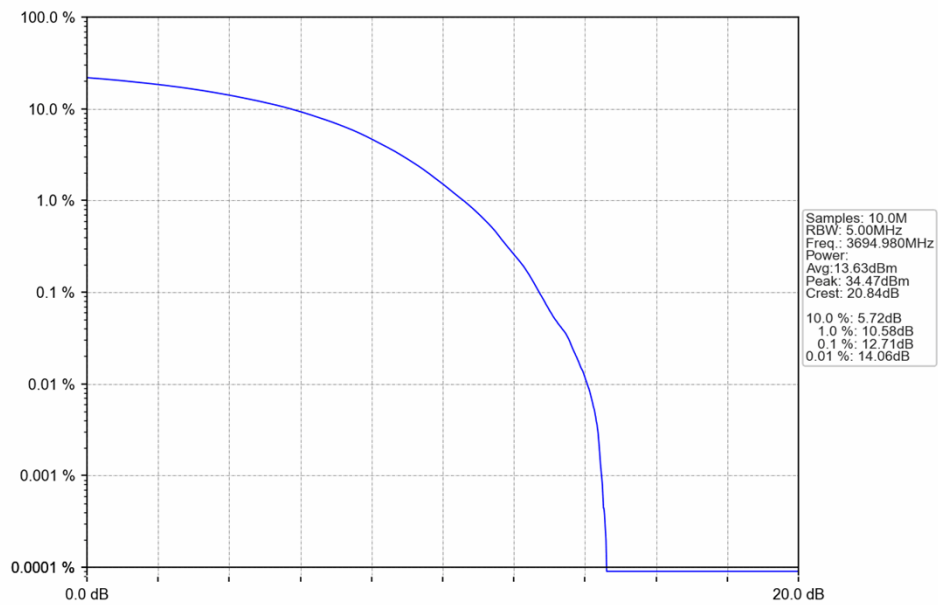
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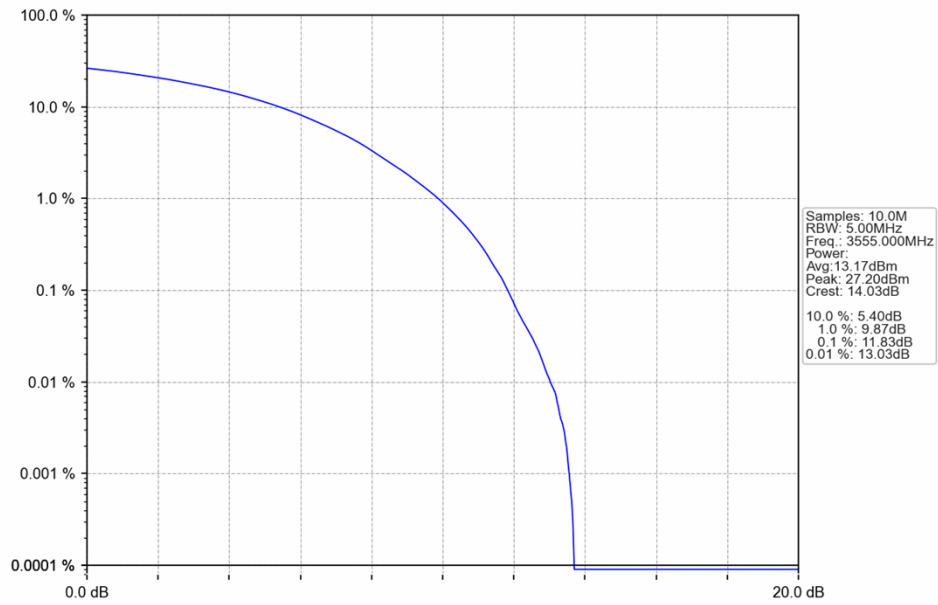
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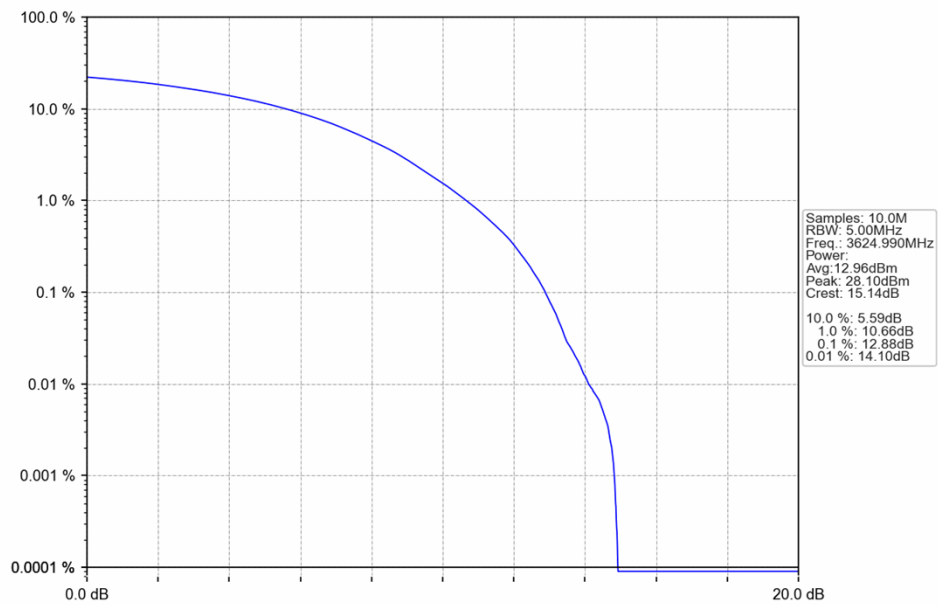
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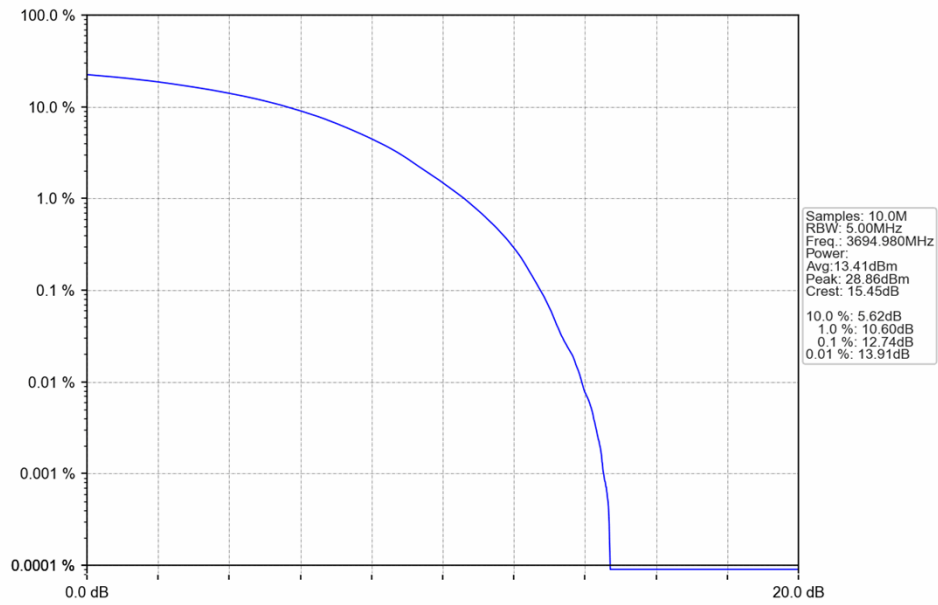
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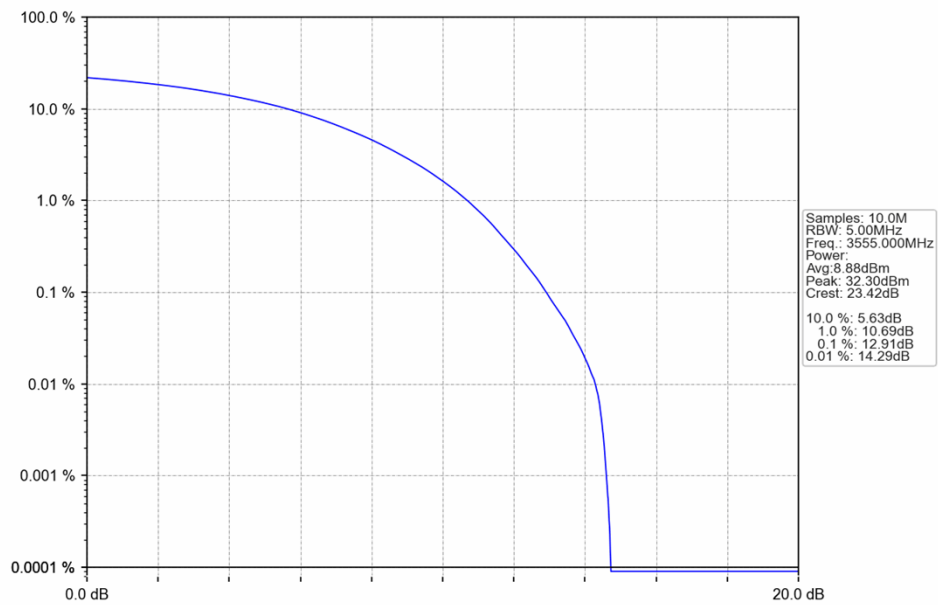
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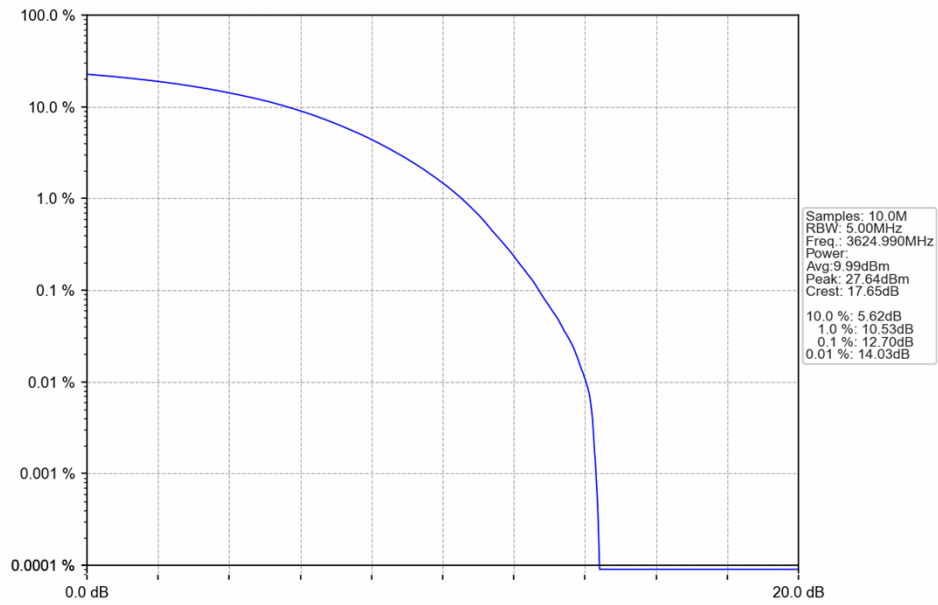
n48_30kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_3694.98MHz_Outer_Full



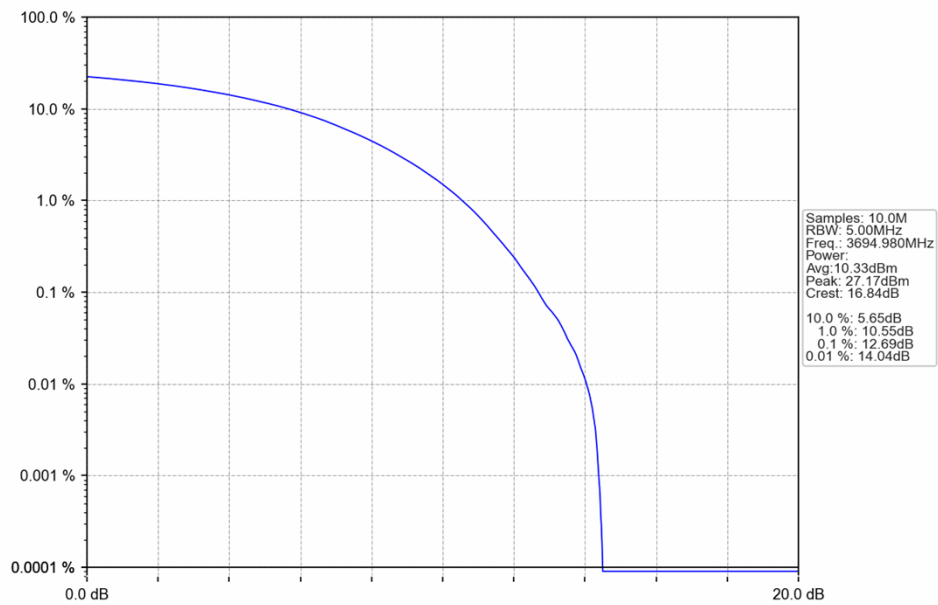
n48_30kHz_SISO_NTNV_10MHz_CP-OFDM 256 QAM_3555MHz_Outer_Full



n48_30kHz_SISO_NTNV_10MHz_CP-OFDM 256 QAM_3624.99MHz_Outer_Full



n48_30kHz_SISO_NTNV_10MHz_CP-OFDM 256 QAM_3694.98MHz_Outer_Full

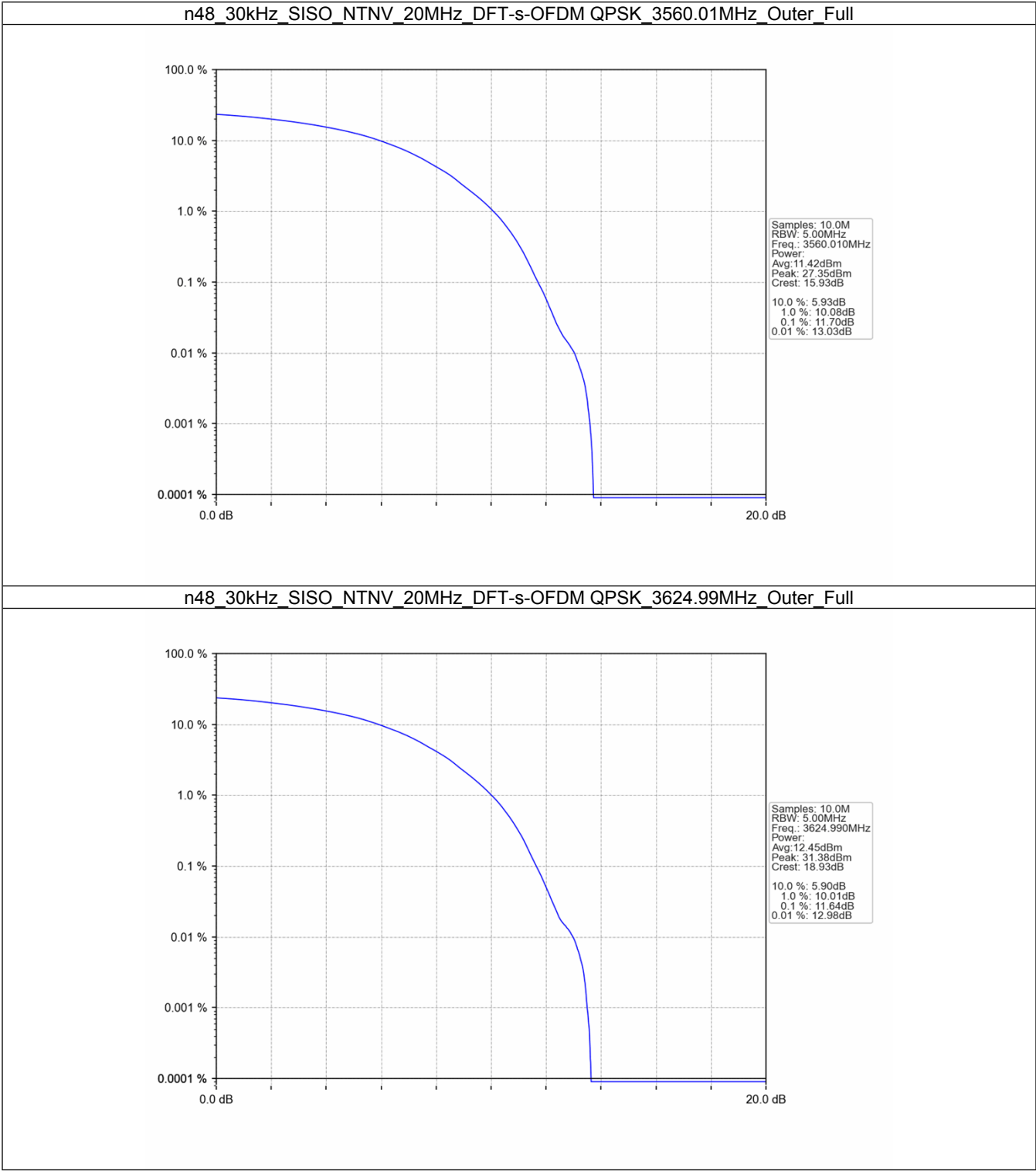


1.2 30k_SISO_20MHz_NTNV

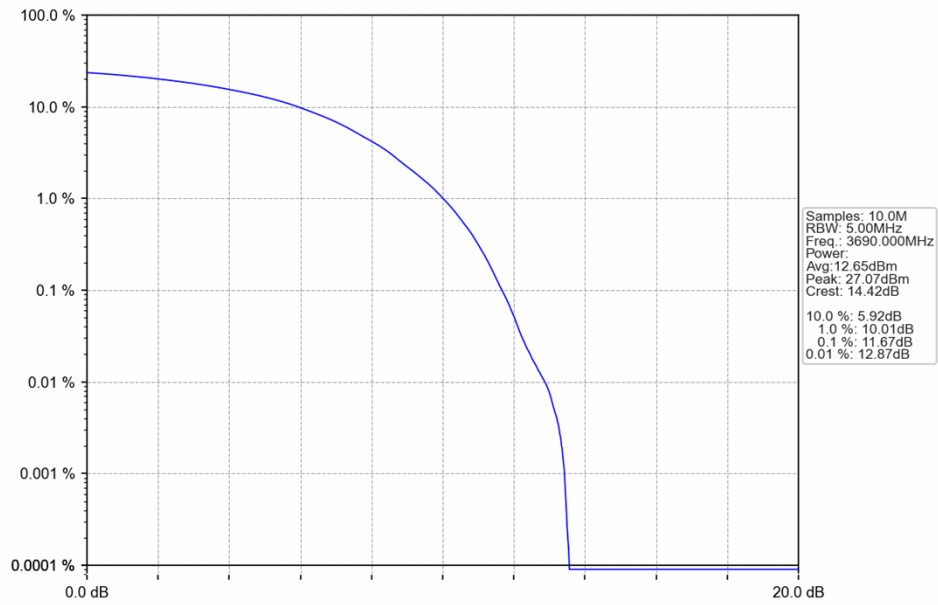
1.2.1 Test Result

5G NR n48 SCS=30kHz SISO 20MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM QPSK	3560.01	Outer_Full	11.70	/	/	<=13	Pass
	3624.99	Outer_Full	11.64	/	/	<=13	Pass
	3690	Outer_Full	11.67	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3560.01	Outer_Full	12.10	/	/	<=13	Pass
	3624.99	Outer_Full	12.27	/	/	<=13	Pass
	3690	Outer_Full	12.08	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3560.01	Outer_Full	12.45	/	/	<=13	Pass
	3624.99	Outer_Full	12.31	/	/	<=13	Pass
	3690	Outer_Full	12.30	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3560.01	Outer_Full	12.46	/	/	<=13	Pass
	3624.99	Outer_Full	12.43	/	/	<=13	Pass
	3690	Outer_Full	12.36	/	/	<=13	Pass
CP-OFDM QPSK	3560.01	Outer_Full	11.80	/	/	<=13	Pass
	3624.99	Outer_Full	12.75	/	/	<=13	Pass
	3690	Outer_Full	12.72	/	/	<=13	Pass
CP-OFDM 16 QAM	3560.01	Outer_Full	12.69	/	/	<=13	Pass
	3624.99	Outer_Full	12.67	/	/	<=13	Pass
	3690	Outer_Full	12.57	/	/	<=13	Pass
CP-OFDM 64 QAM	3560.01	Outer_Full	12.57	/	/	<=13	Pass
	3624.99	Outer_Full	12.64	/	/	<=13	Pass
	3690	Outer_Full	12.71	/	/	<=13	Pass
CP-OFDM 256 QAM	3560.01	Outer_Full	12.76	/	/	<=13	Pass
	3624.99	Outer_Full	12.68	/	/	<=13	Pass
	3690	Outer_Full	12.80	/	/	<=13	Pass

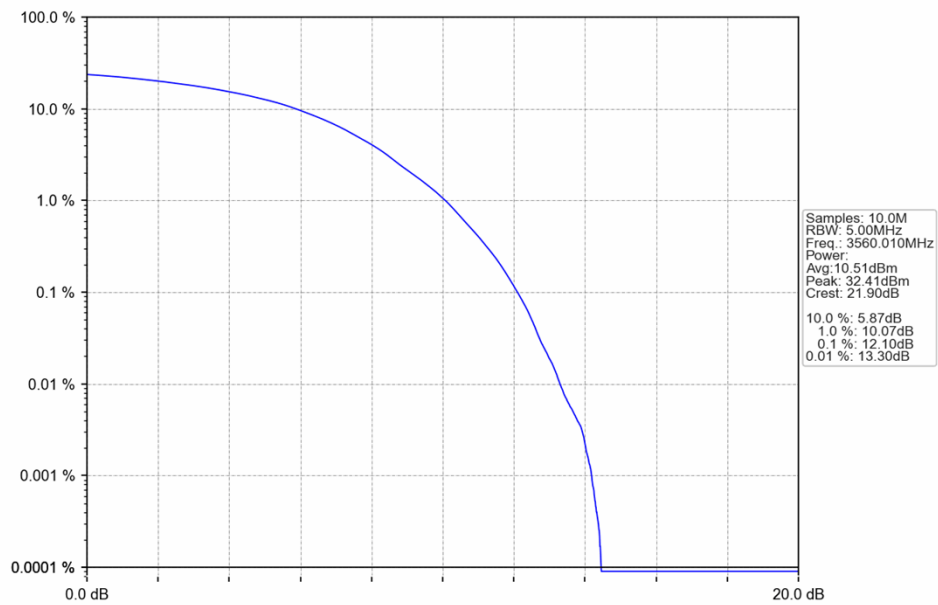
1.2.2 Test Graph



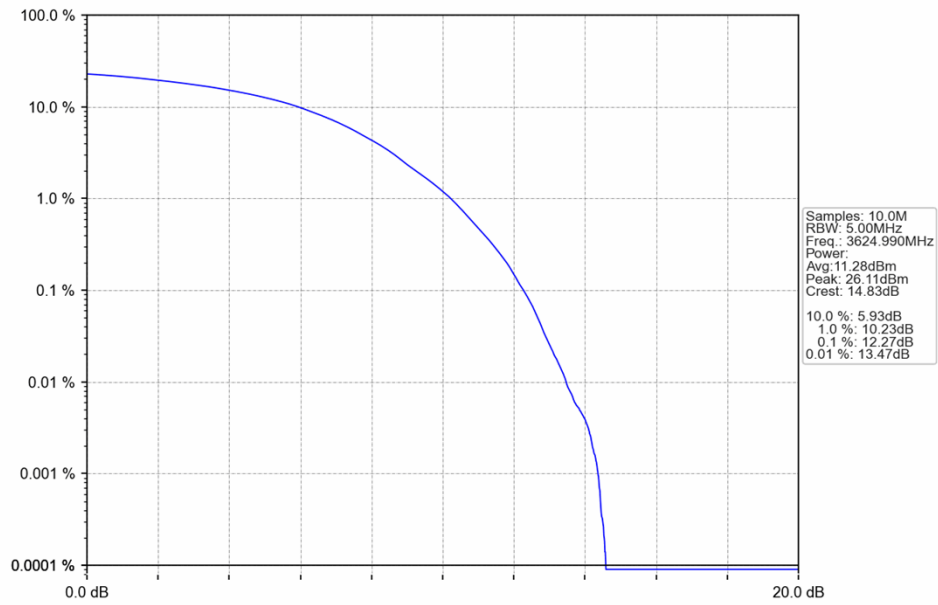
n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_3690MHz_Outer_Full



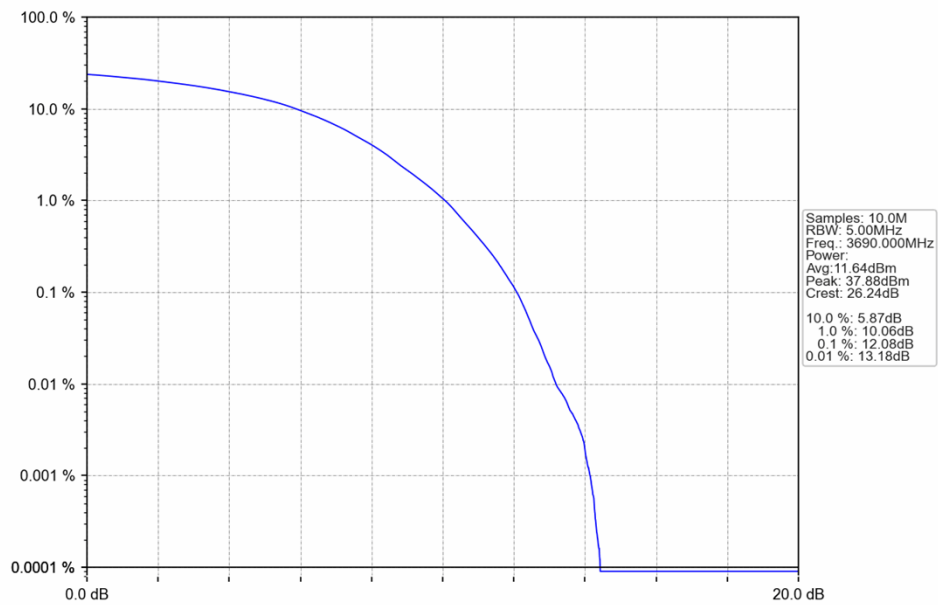
n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 16 QAM_3560.01MHz_Outer_Full



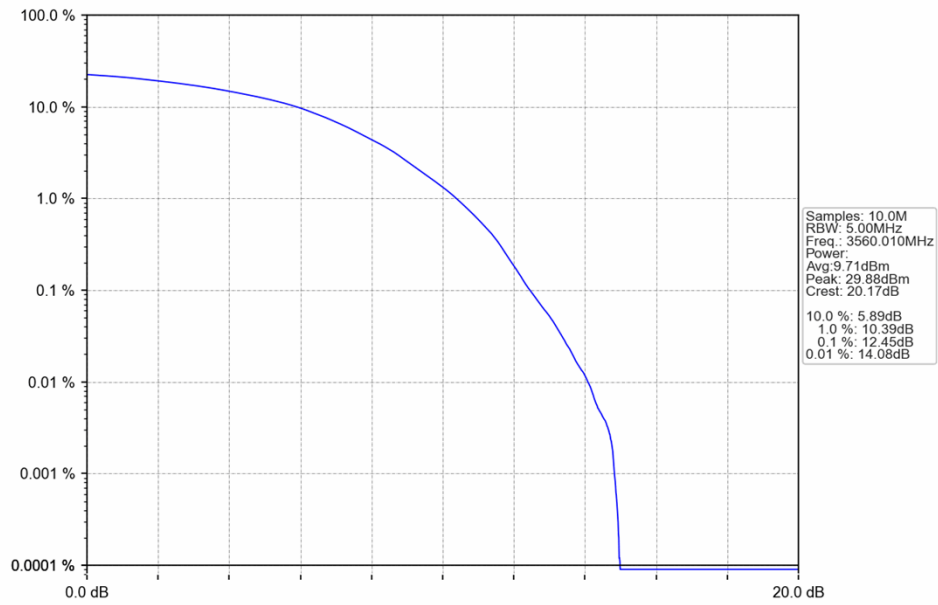
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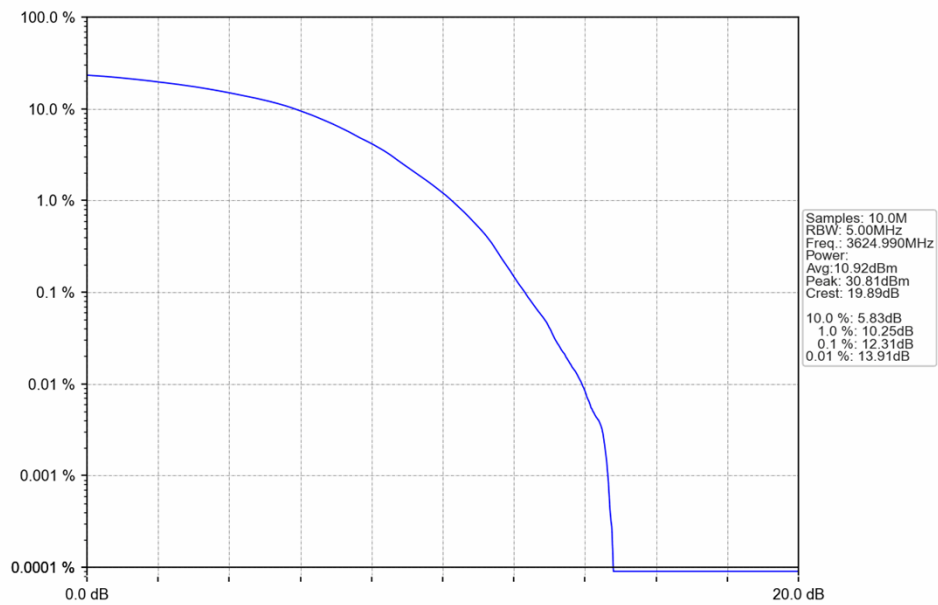
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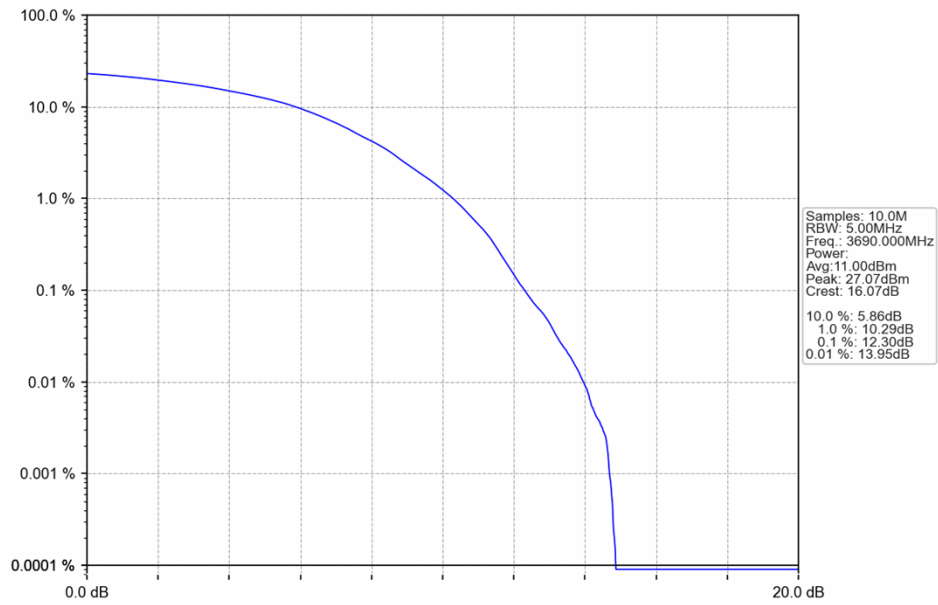
n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_64_QAM_3560.01MHz_Outer_Full



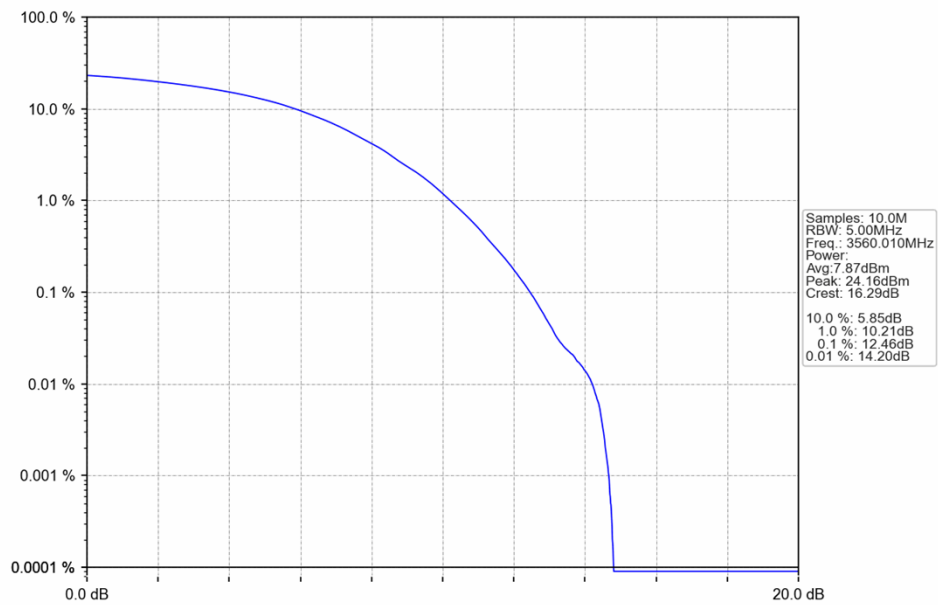
n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_64_QAM_3624.99MHz_Outer_Full



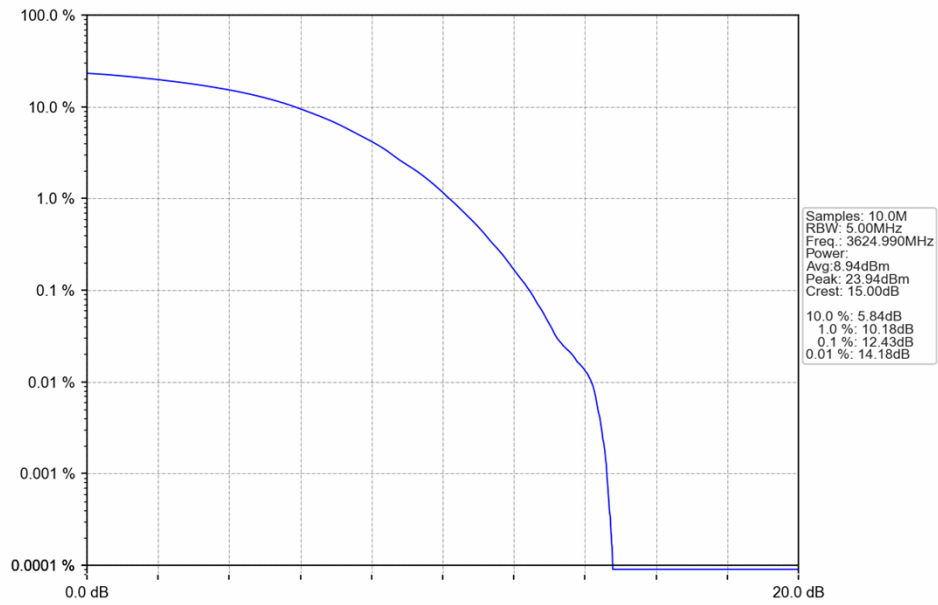
n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 64 QAM_3690MHz_Outer_Full



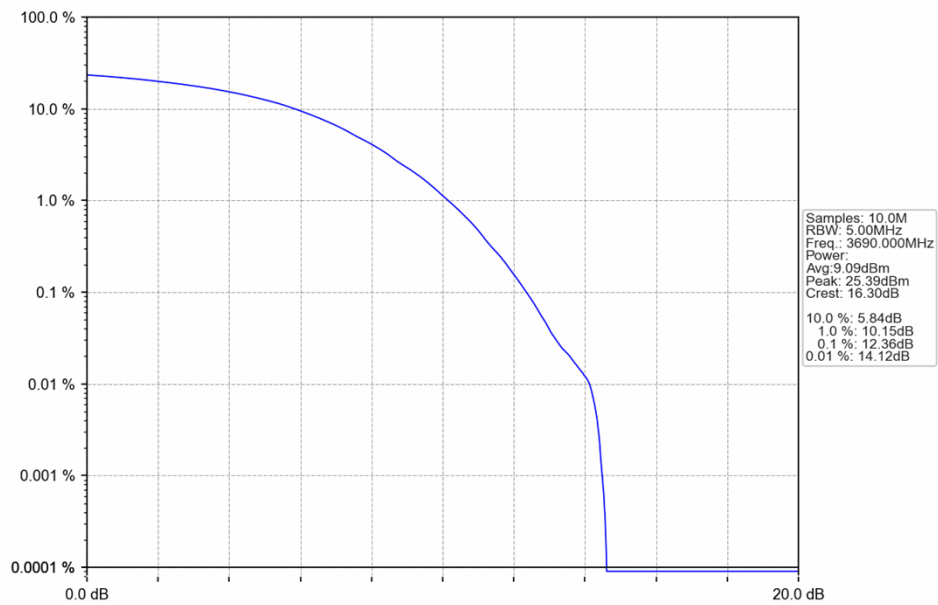
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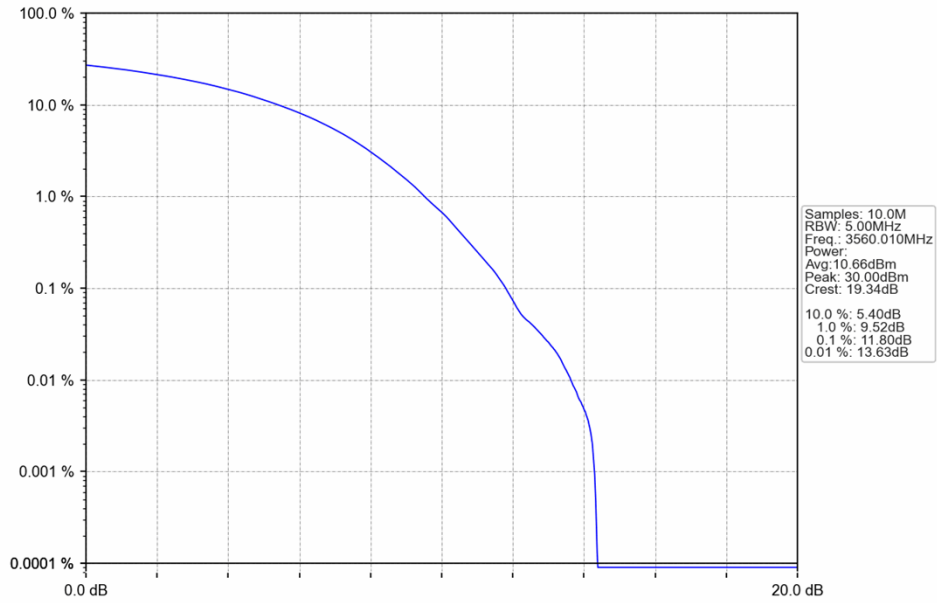
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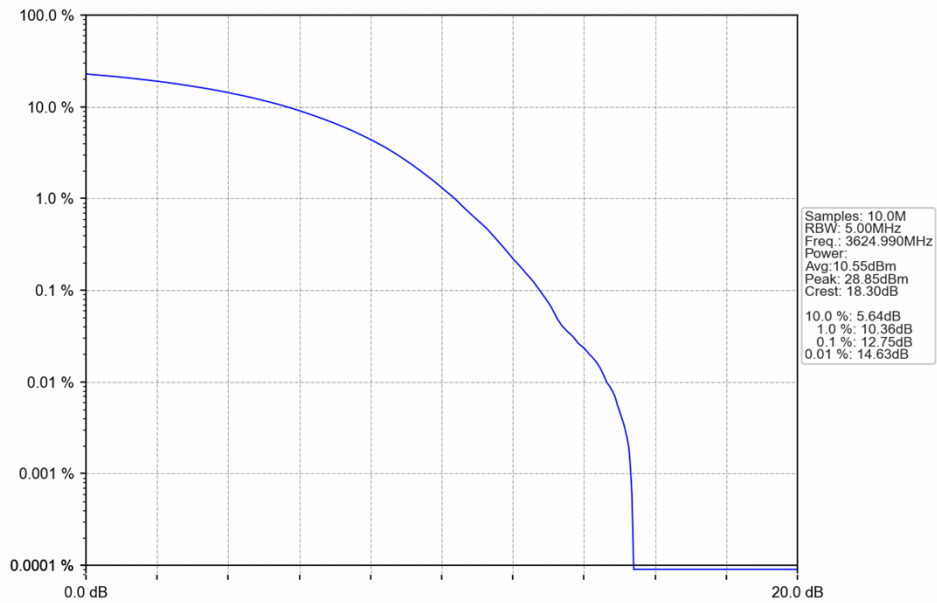
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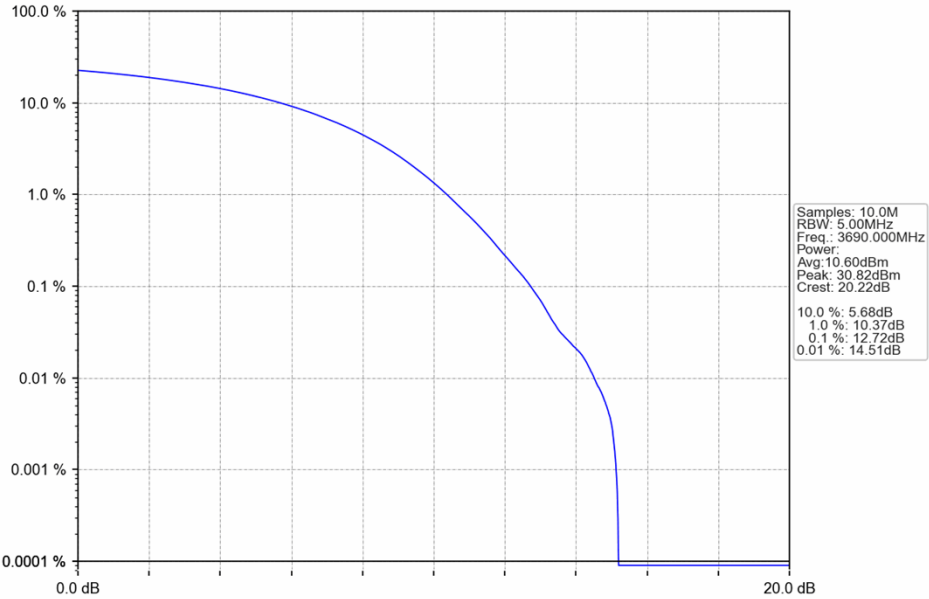
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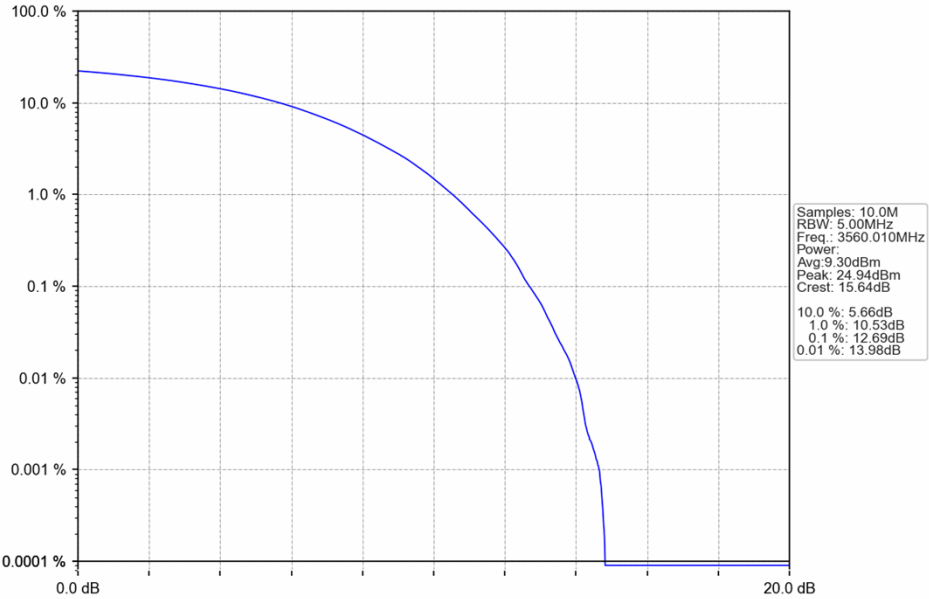
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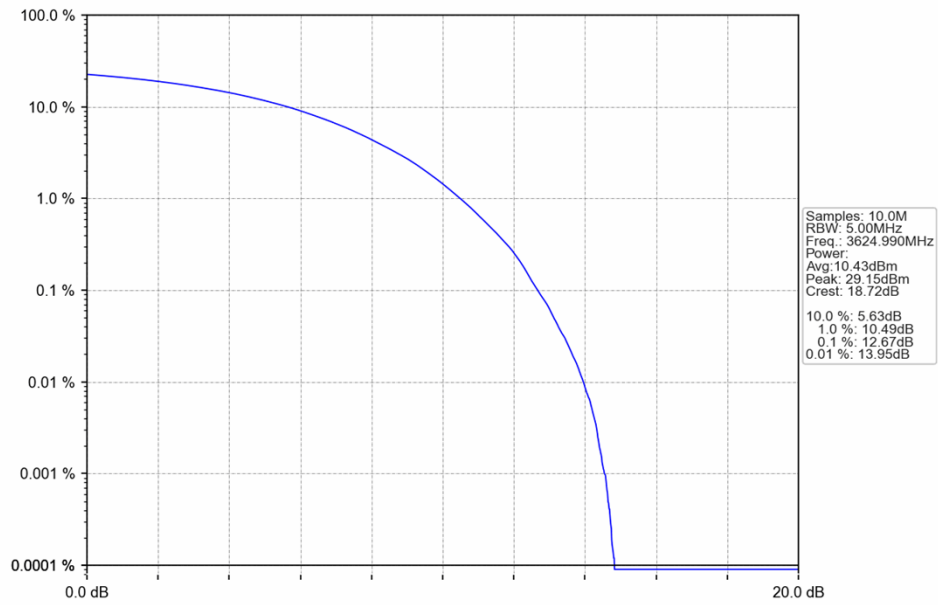
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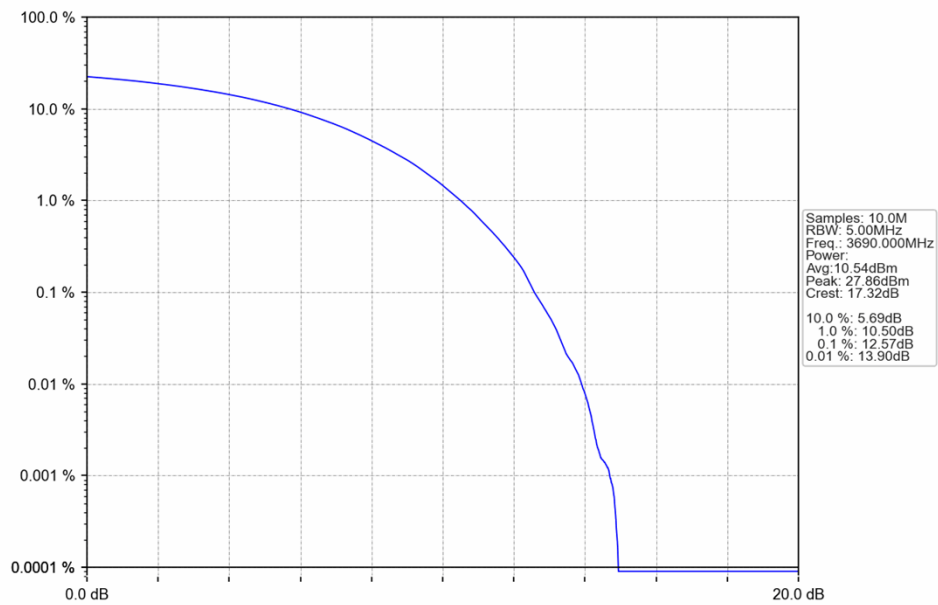
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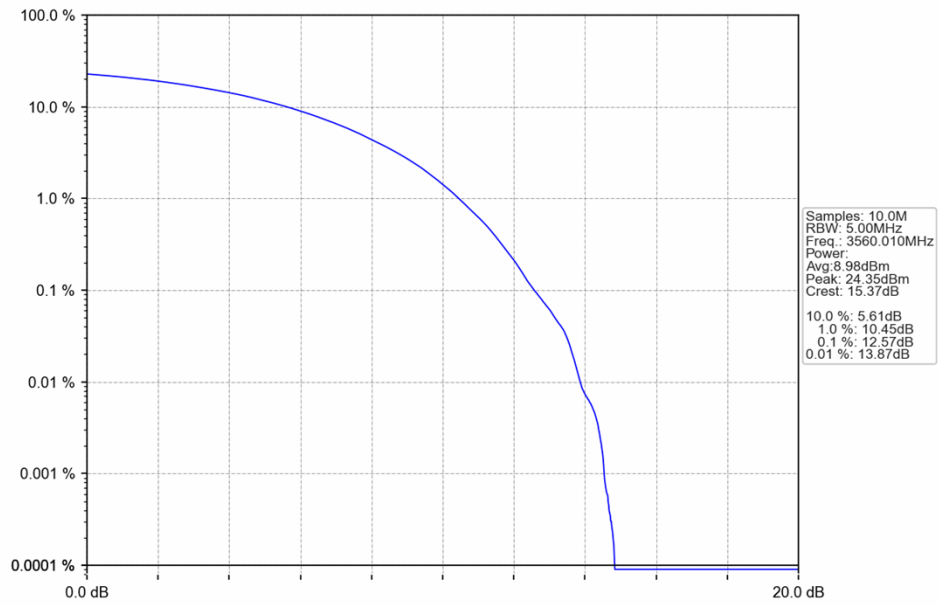
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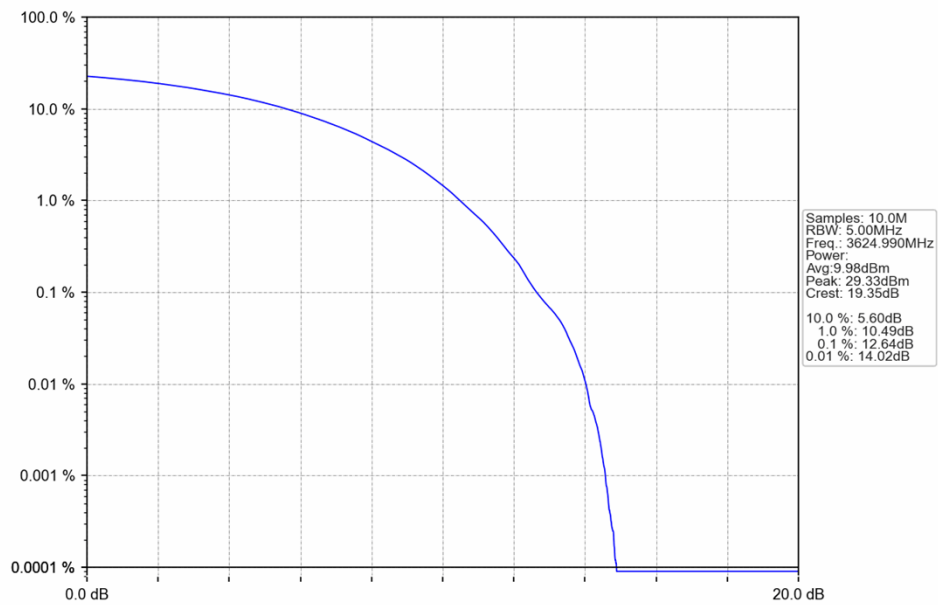
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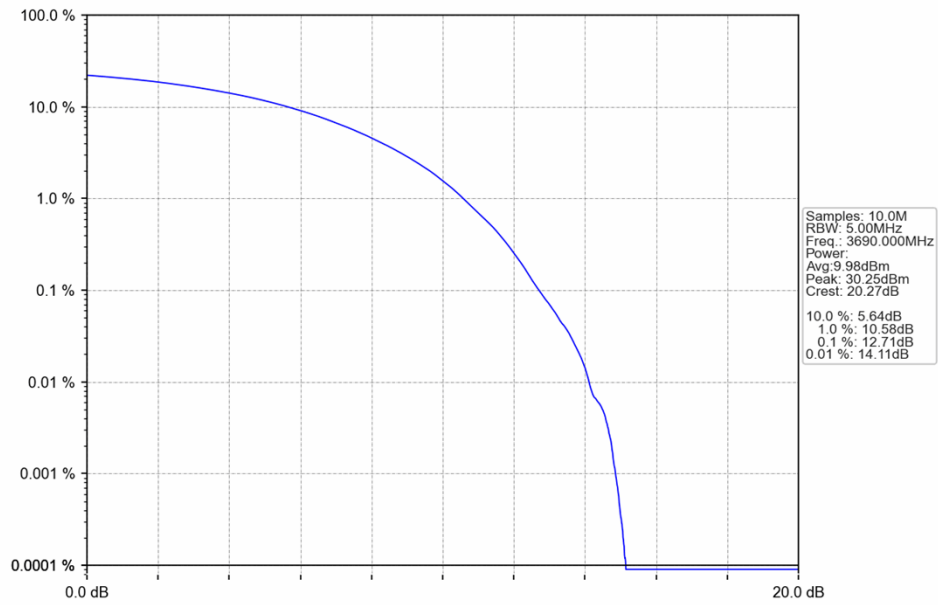
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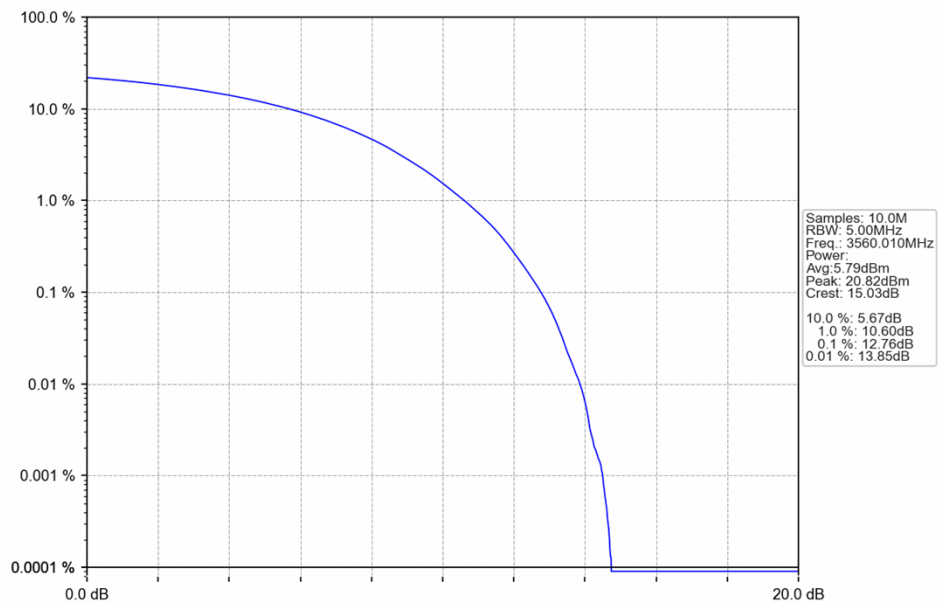
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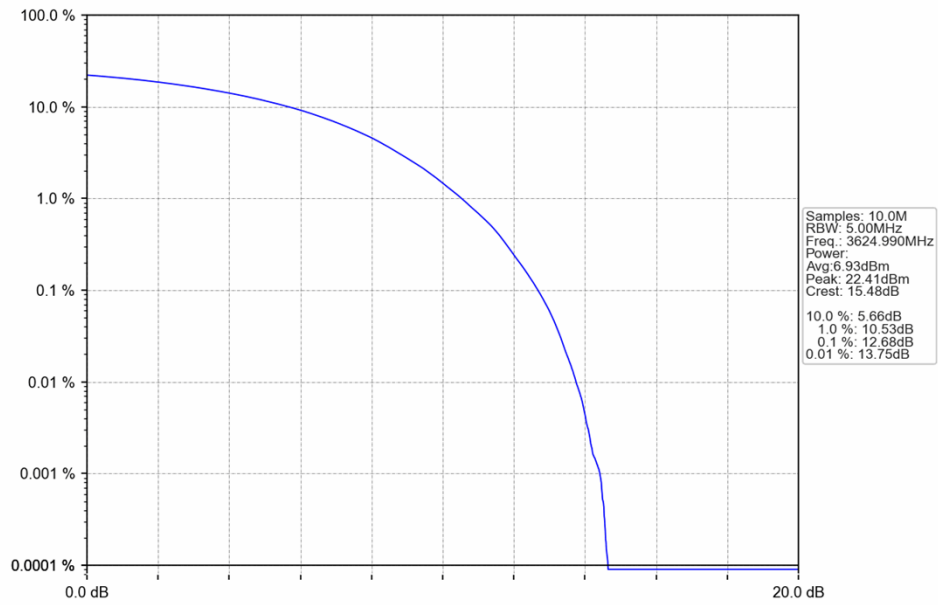
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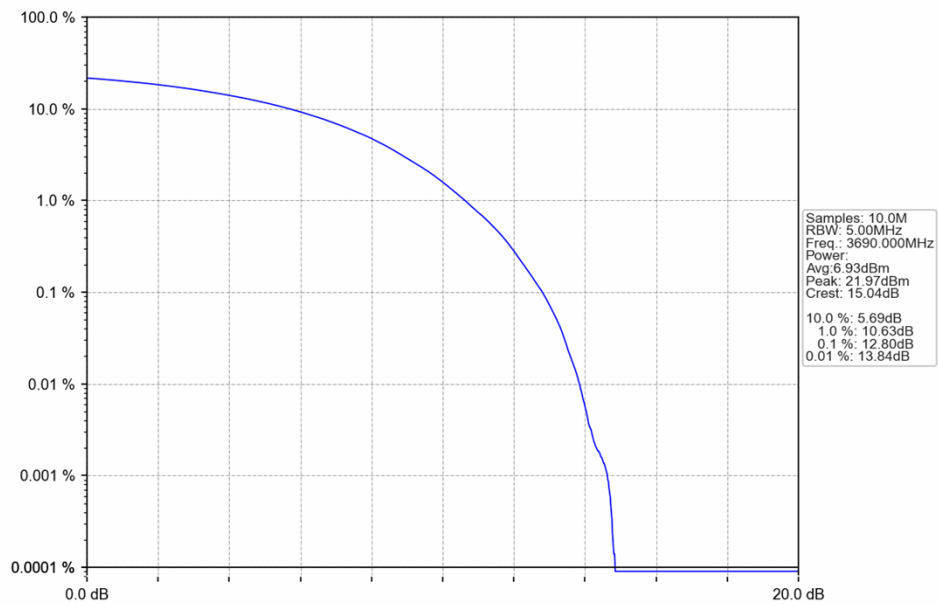
n48_30kHz_SISO_NTNV_20MHz_CP-OFDM 256 QAM_3560.01MHz_Outer_Full



n48_30kHz_SISO_NTNV_20MHz_CP-OFDM 256 QAM_3624.99MHz_Outer_Full



n48_30kHz_SISO_NTNV_20MHz_CP-OFDM 256 QAM_3690MHz_Outer_Full



1.3 30k_SISO_40MHz_NTNV

1.3.1 Test Result

5G NR n48 SCS=30kHz SISO 40MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM QPSK	3570	Outer_Full	12.19	/	/	<=13	Pass
	3624.99	Outer_Full	12.07	/	/	<=13	Pass
	3679.98	Outer_Full	12.13	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3570	Outer_Full	12.42	/	/	<=13	Pass
	3624.99	Outer_Full	12.73	/	/	<=13	Pass
	3679.98	Outer_Full	12.21	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3570	Outer_Full	12.89	/	/	<=13	Pass
	3624.99	Outer_Full	12.71	/	/	<=13	Pass
	3679.98	Outer_Full	12.51	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3570	Outer_Full	12.53	/	/	<=13	Pass
	3624.99	Outer_Full	12.22	/	/	<=13	Pass
	3679.98	Outer_Full	12.56	/	/	<=13	Pass
CP-OFDM QPSK	3570	Outer_Full	12.92	/	/	<=13	Pass
	3624.99	Outer_Full	12.80	/	/	<=13	Pass
	3679.98	Outer_Full	12.79	/	/	<=13	Pass
CP-OFDM 16 QAM	3570	Outer_Full	12.67	/	/	<=13	Pass
	3624.99	Outer_Full	12.67	/	/	<=13	Pass
	3679.98	Outer_Full	12.45	/	/	<=13	Pass
CP-OFDM 64 QAM	3570	Outer_Full	12.59	/	/	<=13	Pass
	3624.99	Outer_Full	12.49	/	/	<=13	Pass
	3679.98	Outer_Full	12.68	/	/	<=13	Pass
CP-OFDM 256 QAM	3570	Outer_Full	12.93	/	/	<=13	Pass
	3624.99	Outer_Full	12.88	/	/	<=13	Pass
	3679.98	Outer_Full	12.64	/	/	<=13	Pass