

5G NR N48

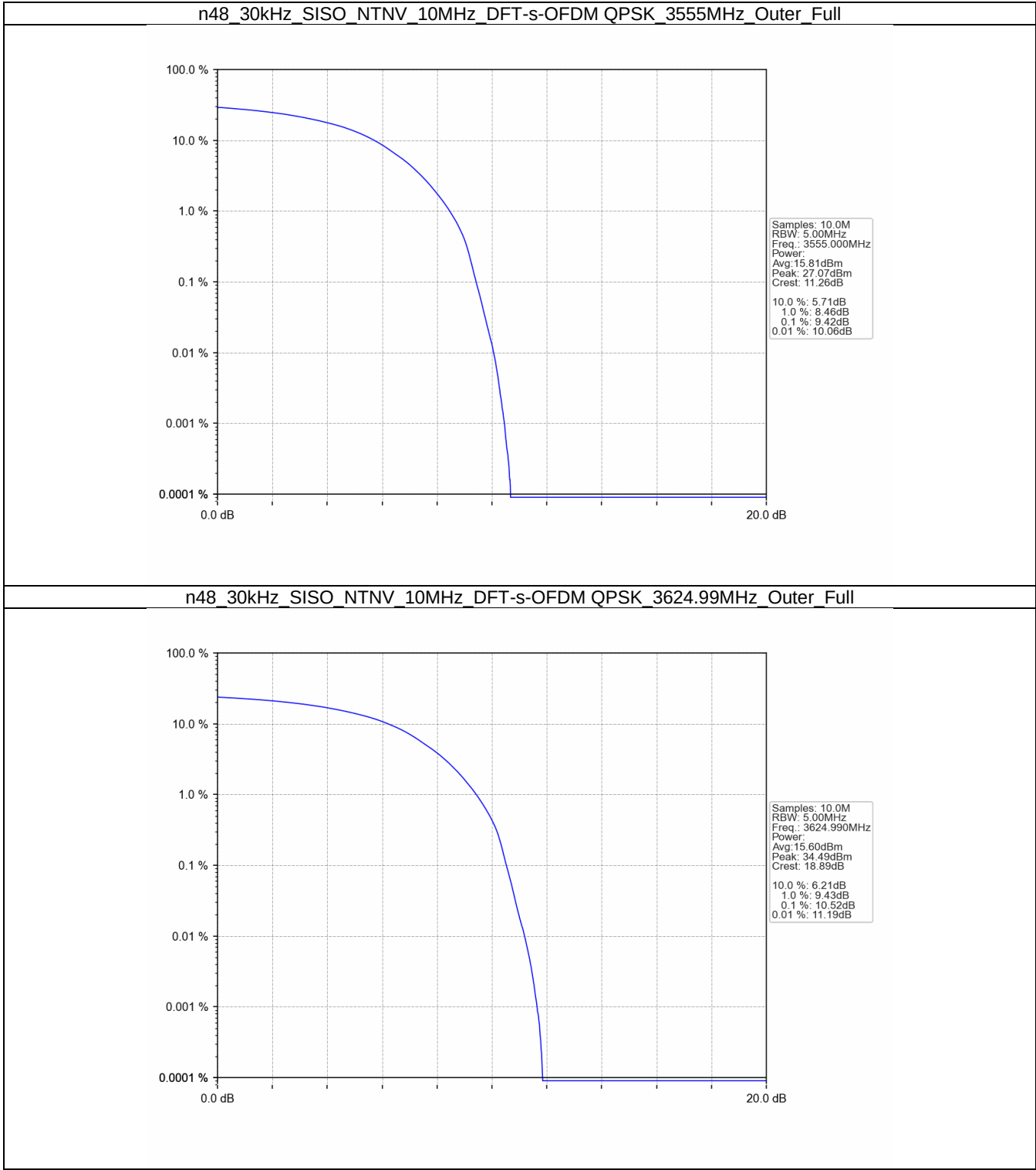
1. Peak-Average Ratio

1.1 30k_SISO_10MHz_NTNV

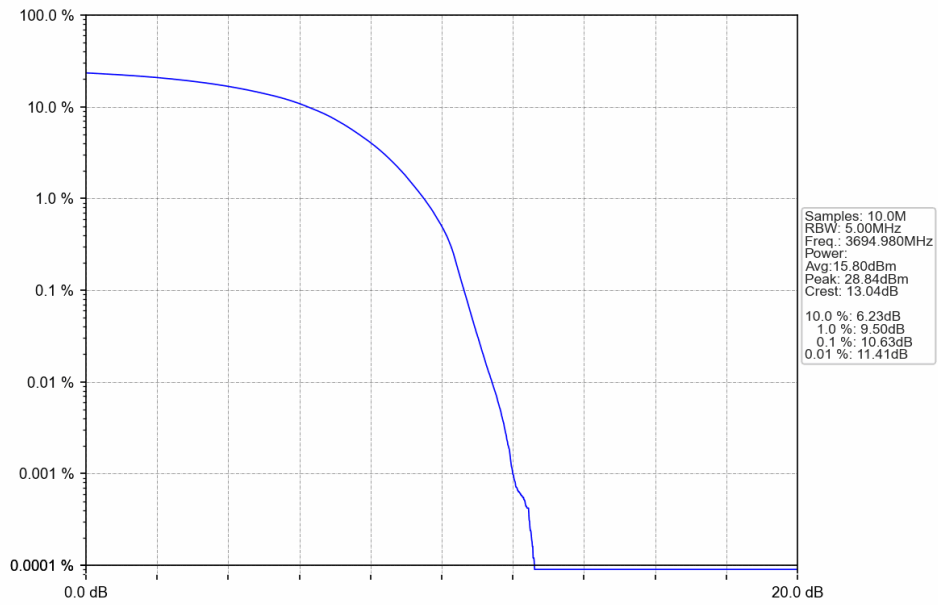
1.1.1 Test Result

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

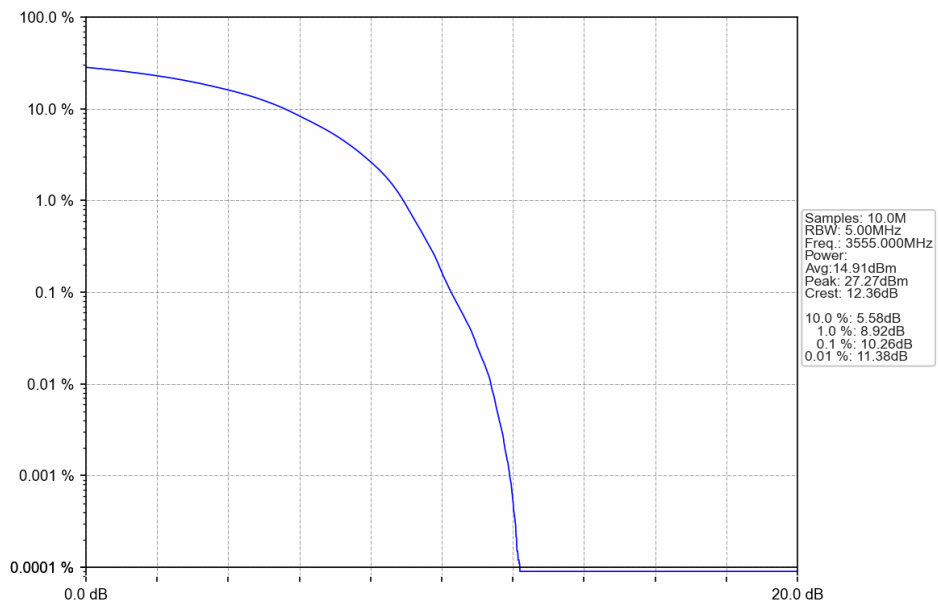
1.1.2 Test Graph



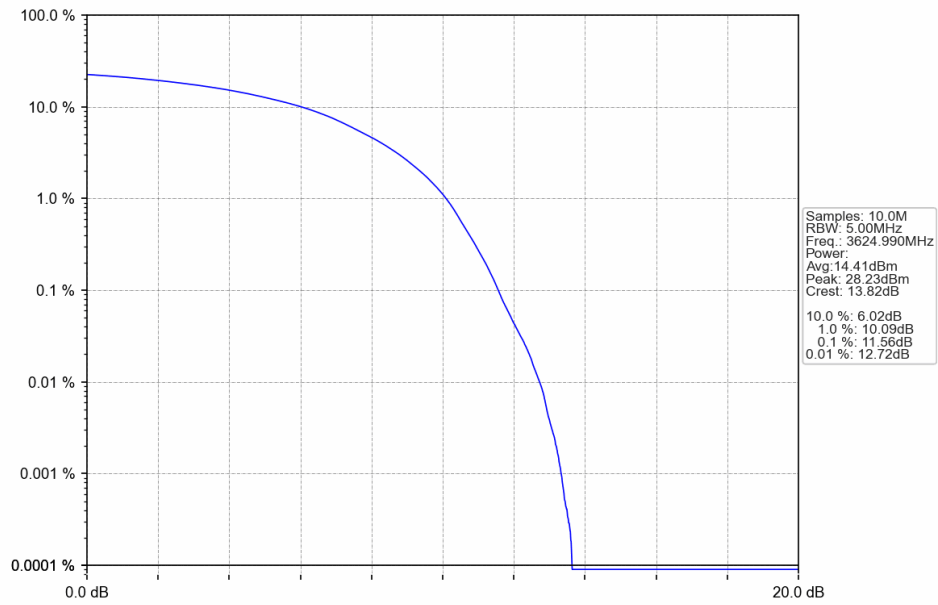
n48 30kHz SISO NTN 10MHz DFT-s-OFDM QPSK 3694.98MHz Outer Full



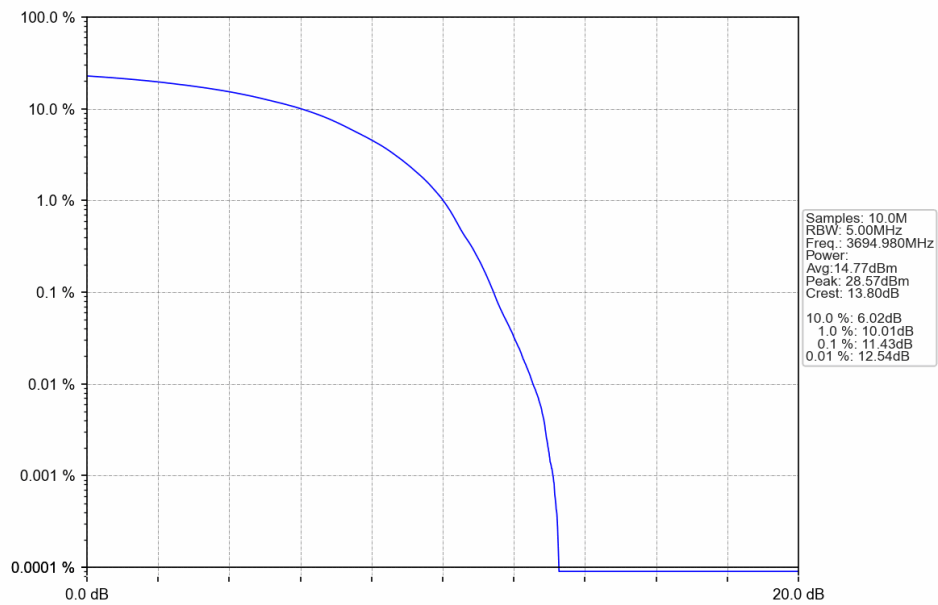
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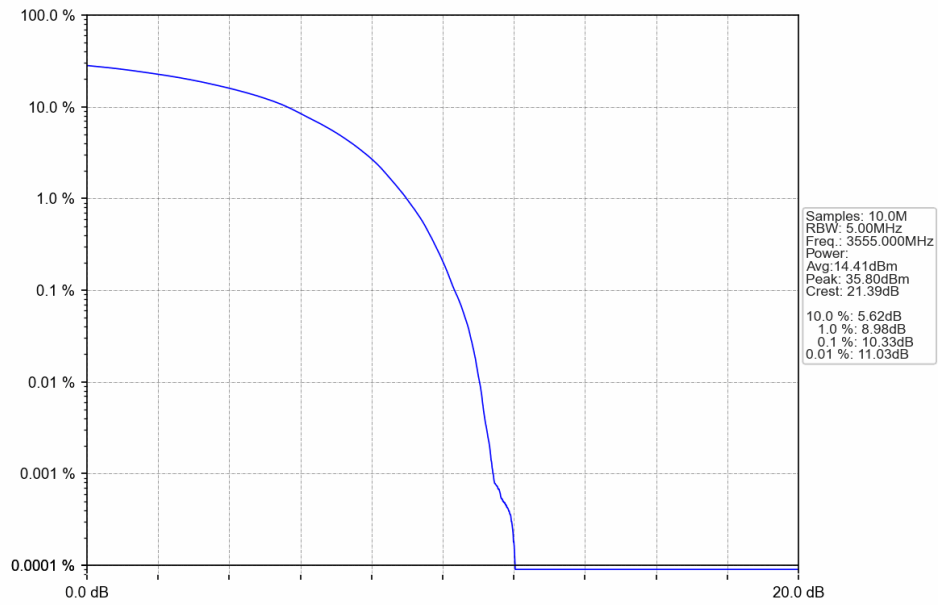
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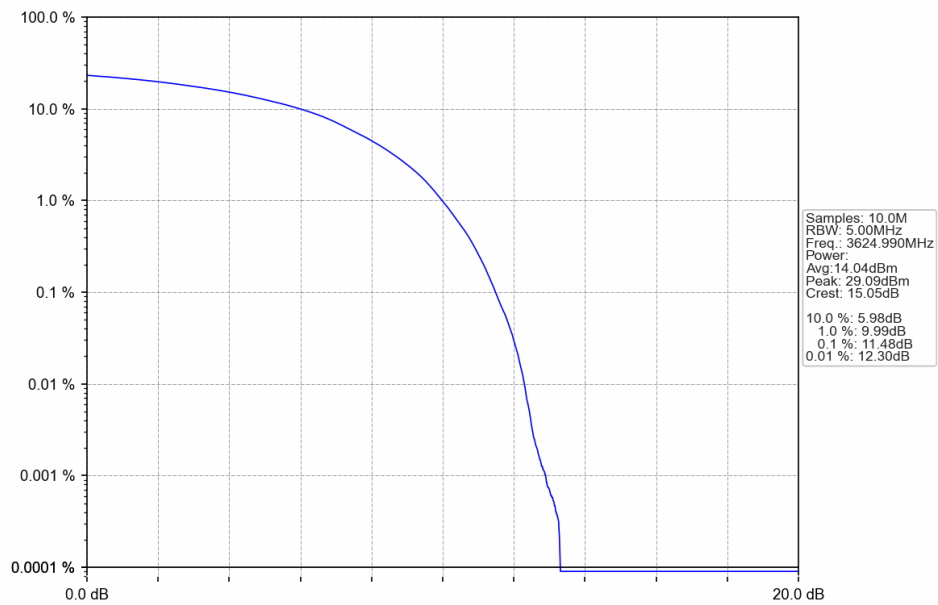
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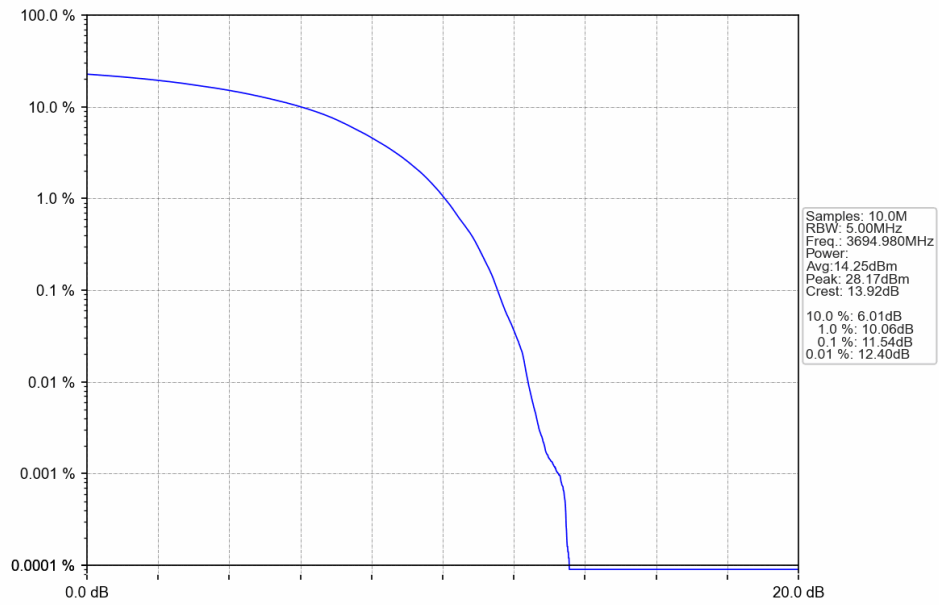
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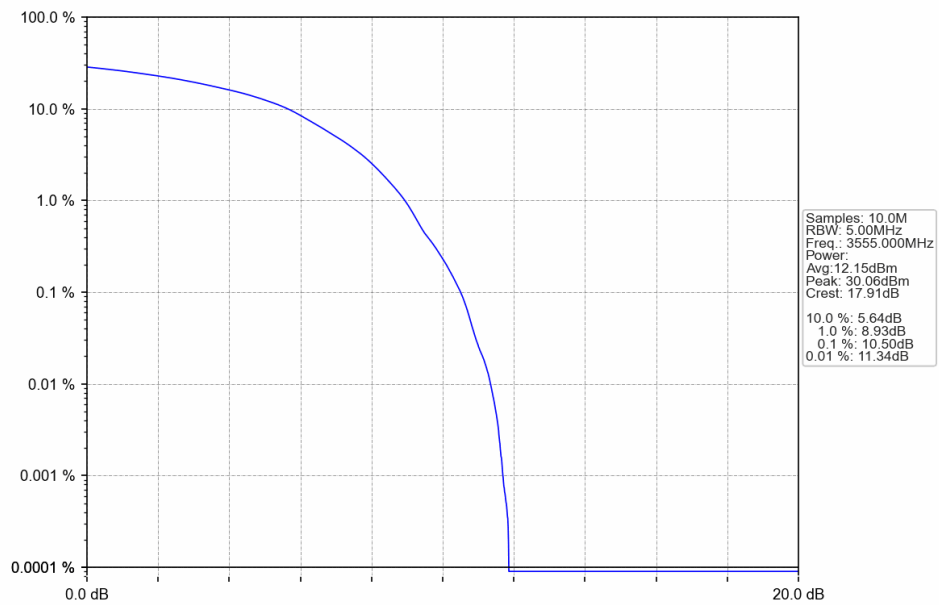
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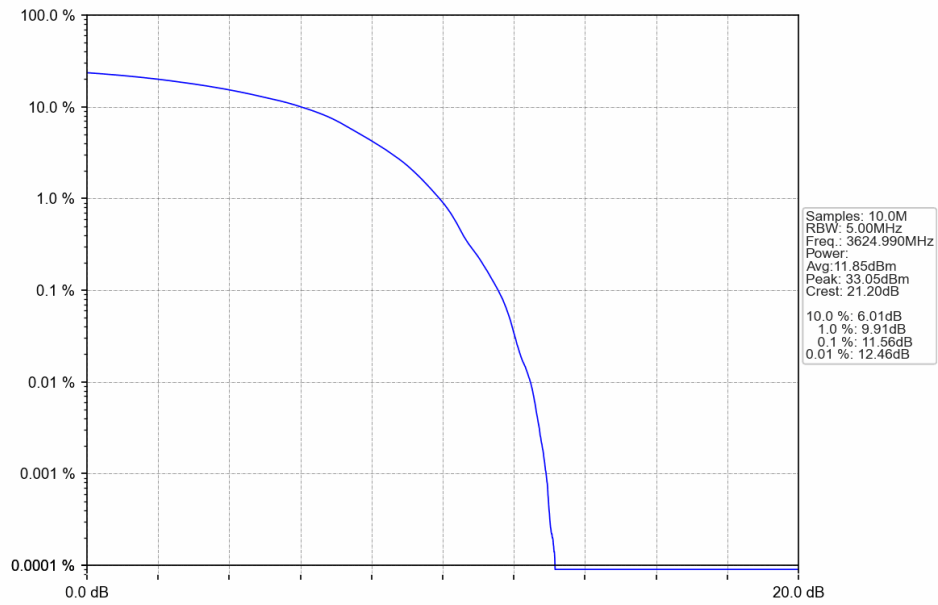
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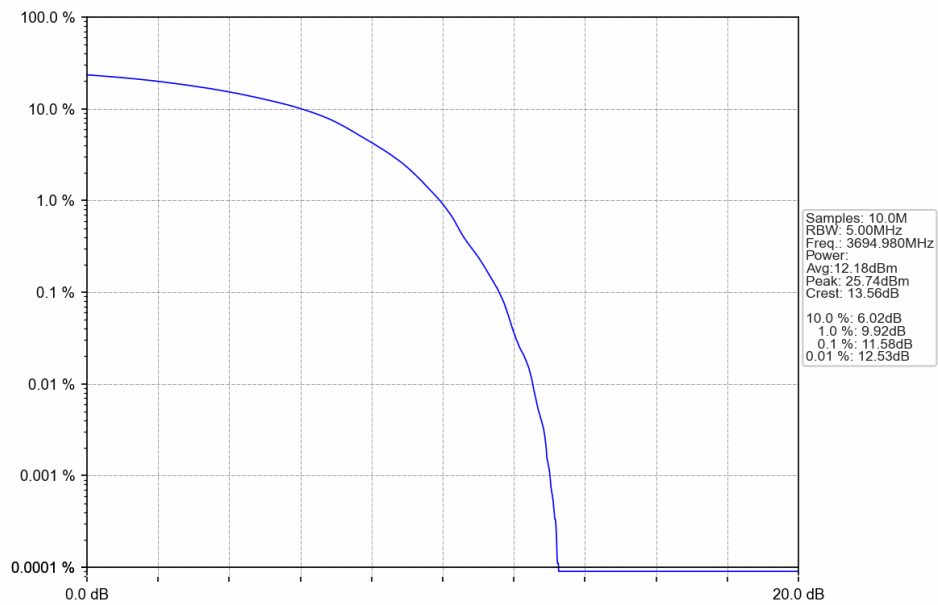
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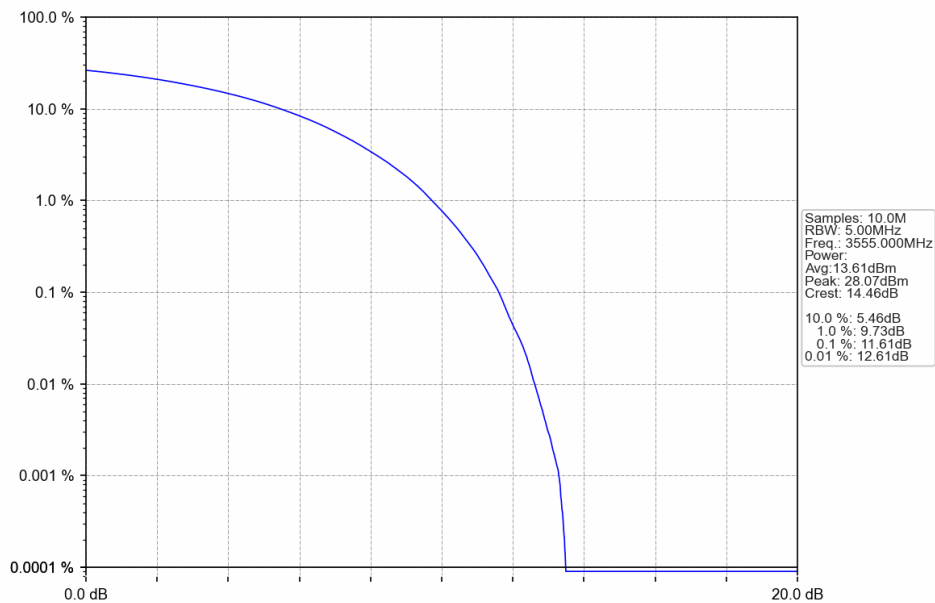
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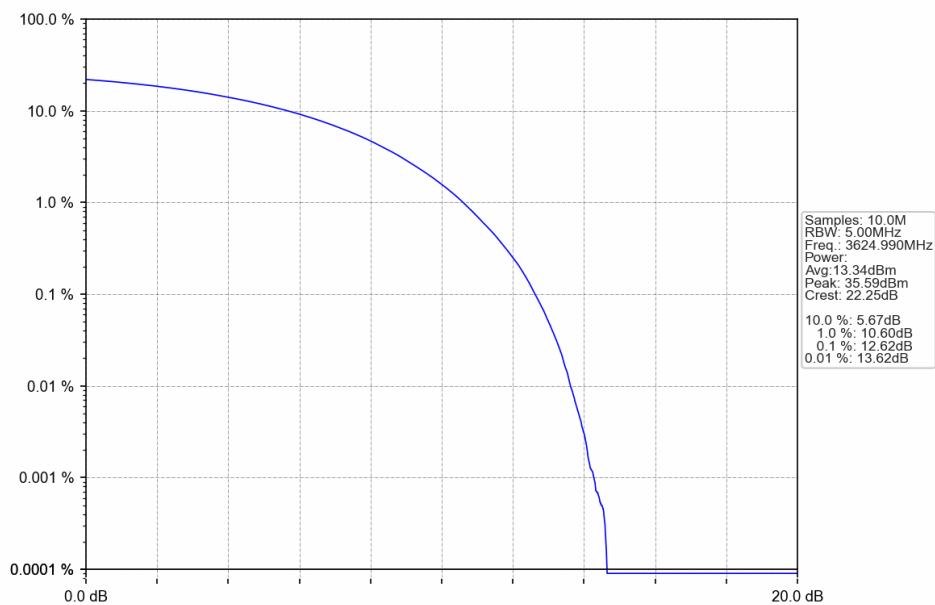
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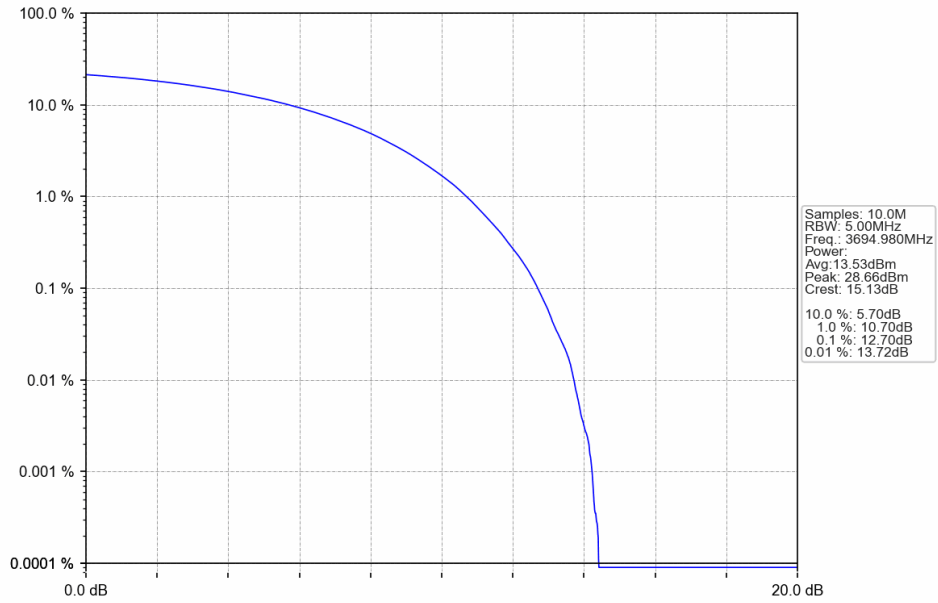
n48 30kHz SISO NTN 10MHz CP-OFDM QPSK 3555MHz Outer Full



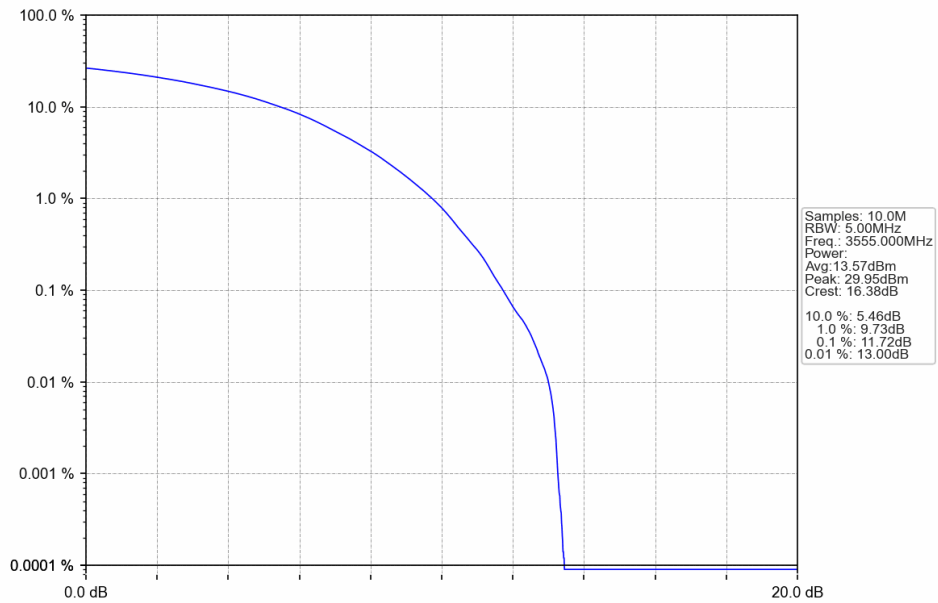
n48 30kHz SISO NTN 10MHz CP-OFDM QPSK 3624.99MHz Outer Full



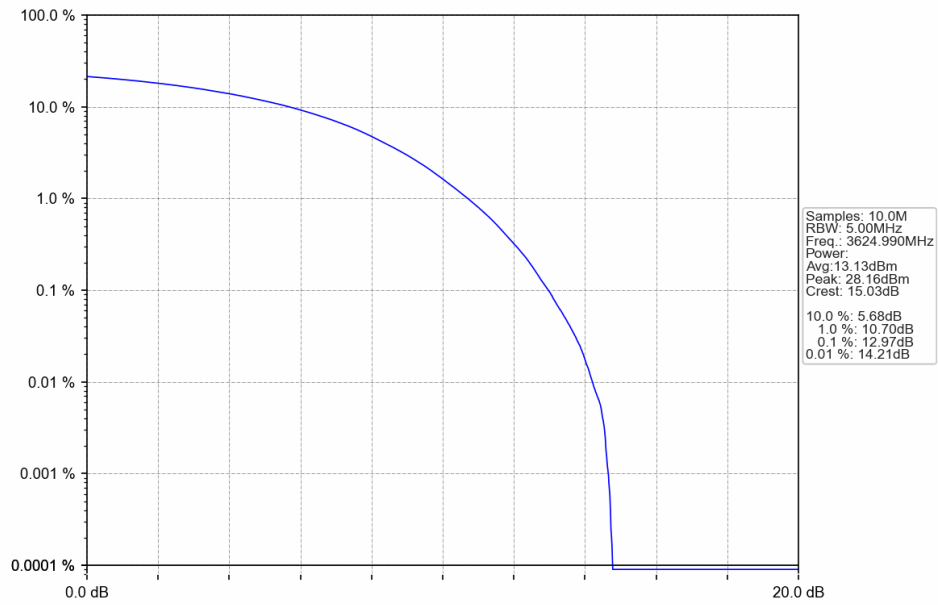
n48 30kHz SISO NTN 10MHz CP-OFDM QPSK 3694.98MHz Outer Full



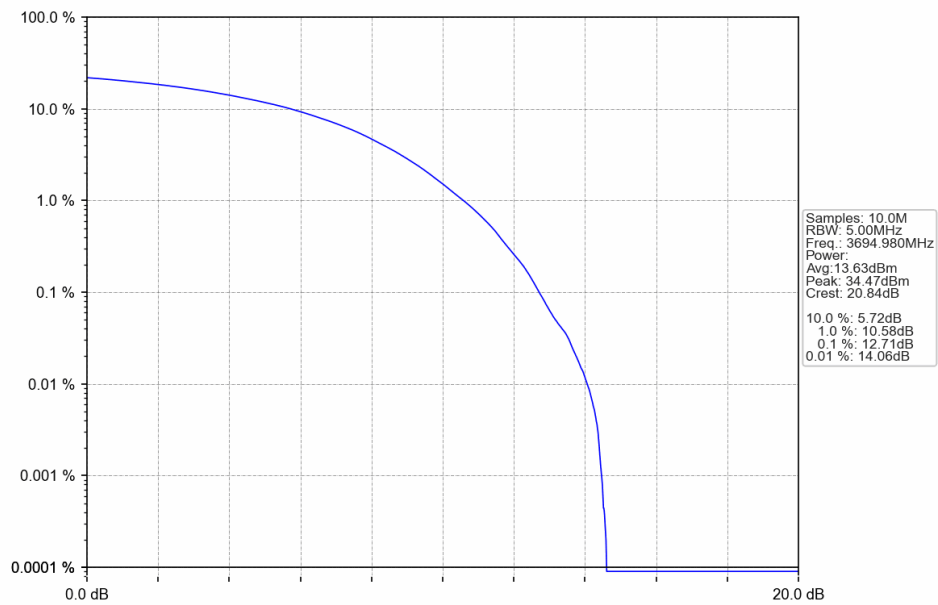
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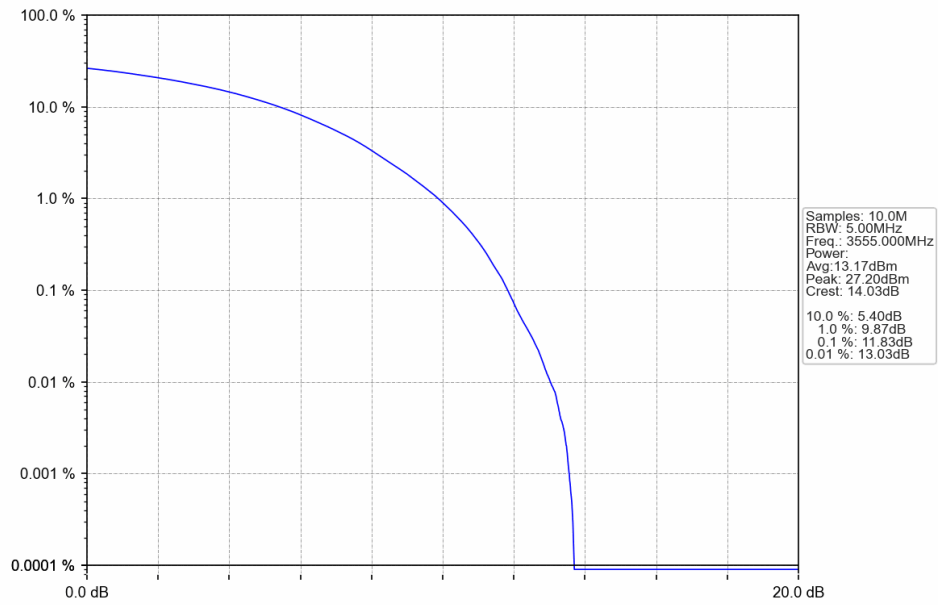
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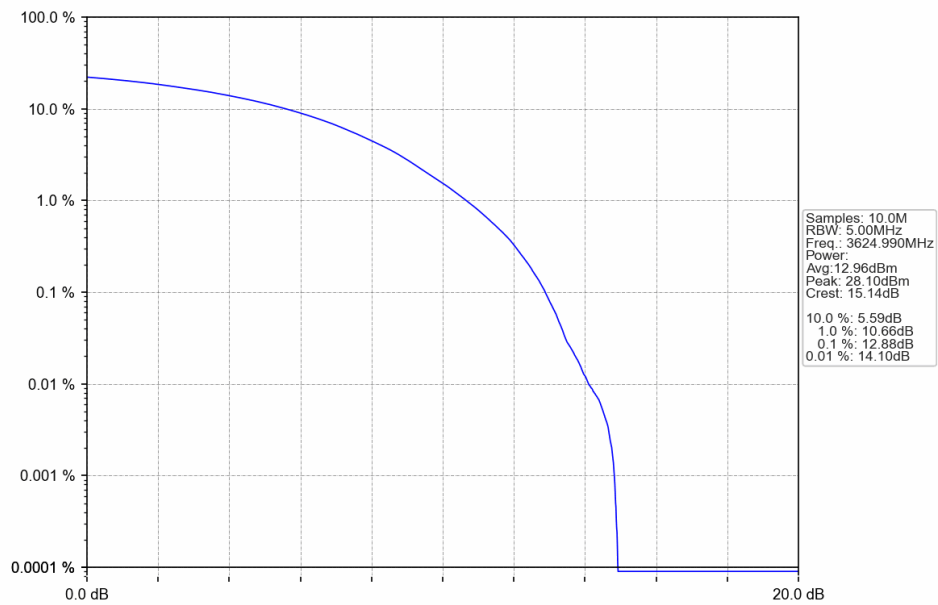
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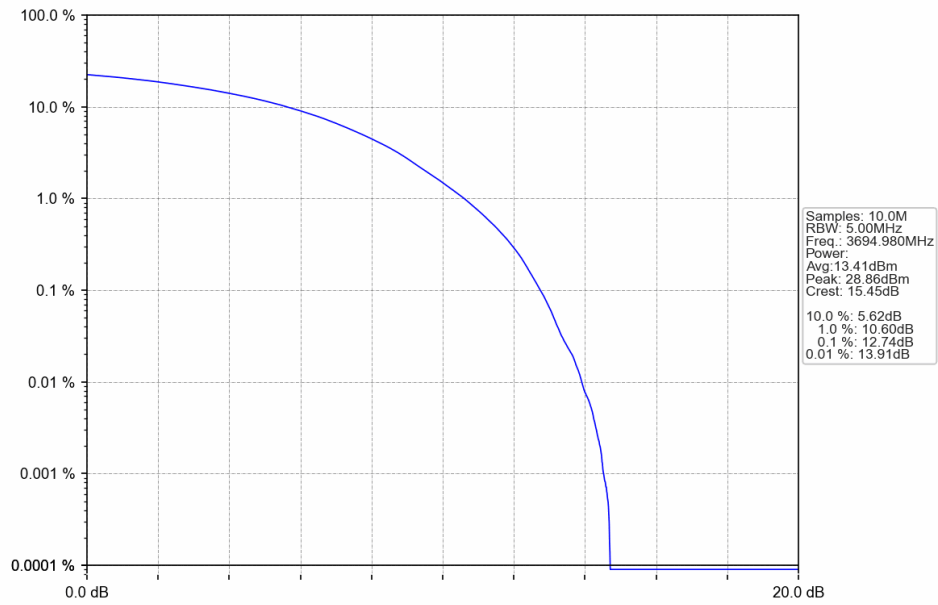
n48 30kHz SISO NTN 10MHz CP-OFDM 64 QAM 3555MHz Outer Full



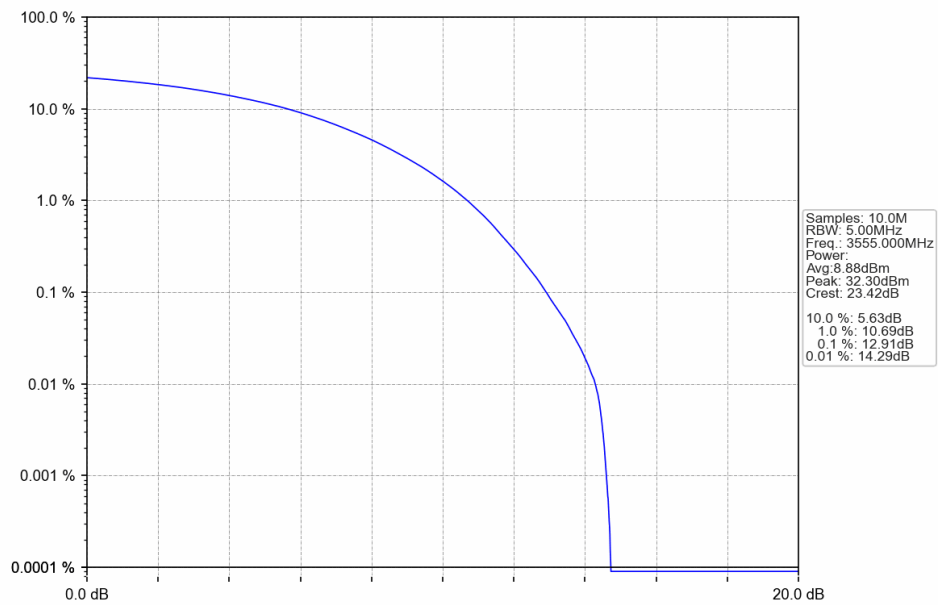
n48 30kHz SISO NTN 10MHz CP-OFDM 64 QAM 3624.99MHz Outer Full



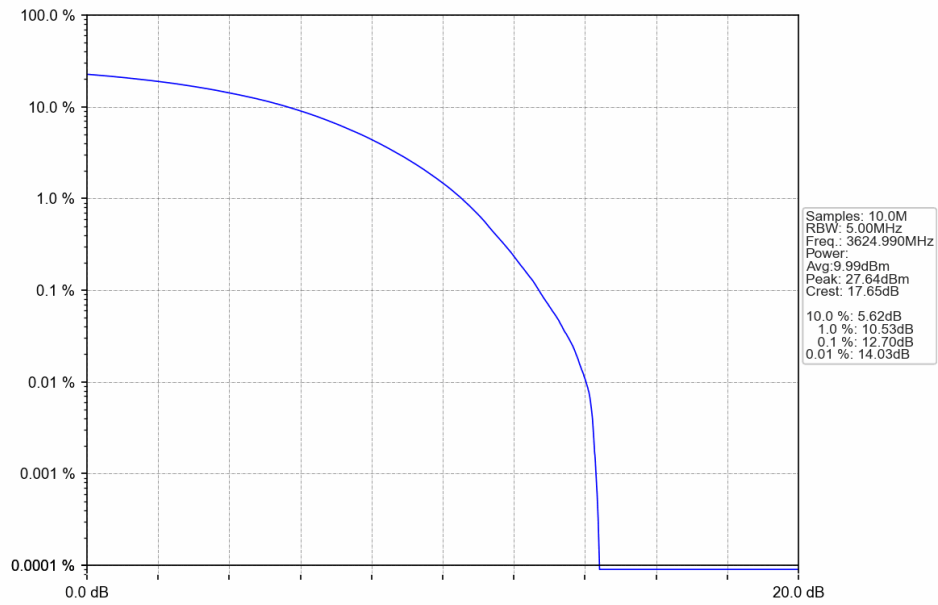
n48 30kHz SISO NTN 10MHz CP-OFDM 64 QAM 3694.98MHz Outer Full



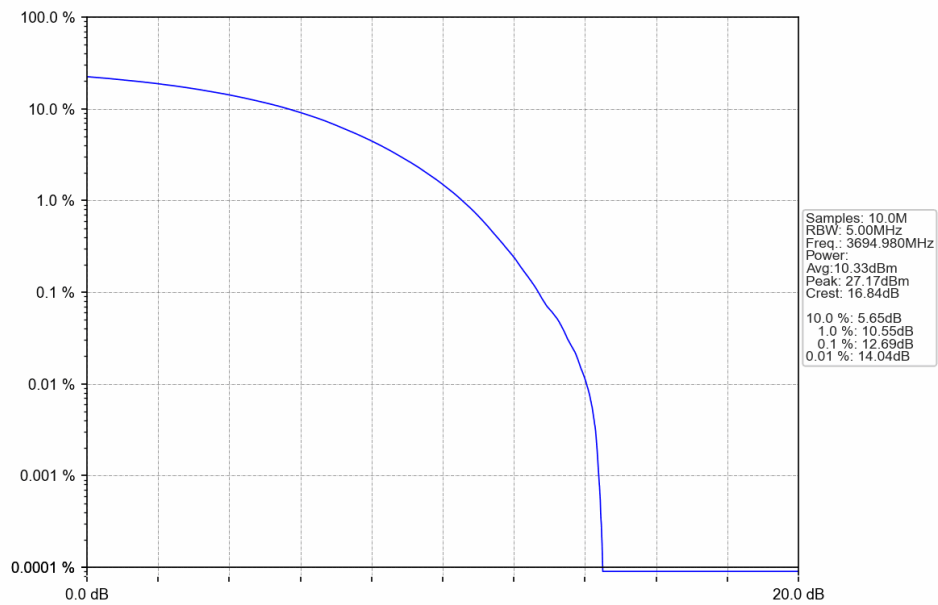
n48 30kHz SISO NTN 10MHz CP-OFDM 256 QAM 3555MHz Outer Full



n48 30kHz SISO NTN 10MHz CP-OFDM 256 QAM 3624.99MHz Outer Full



n48 30kHz SISO NTN 10MHz CP-OFDM 256 QAM 3694.98MHz Outer Full

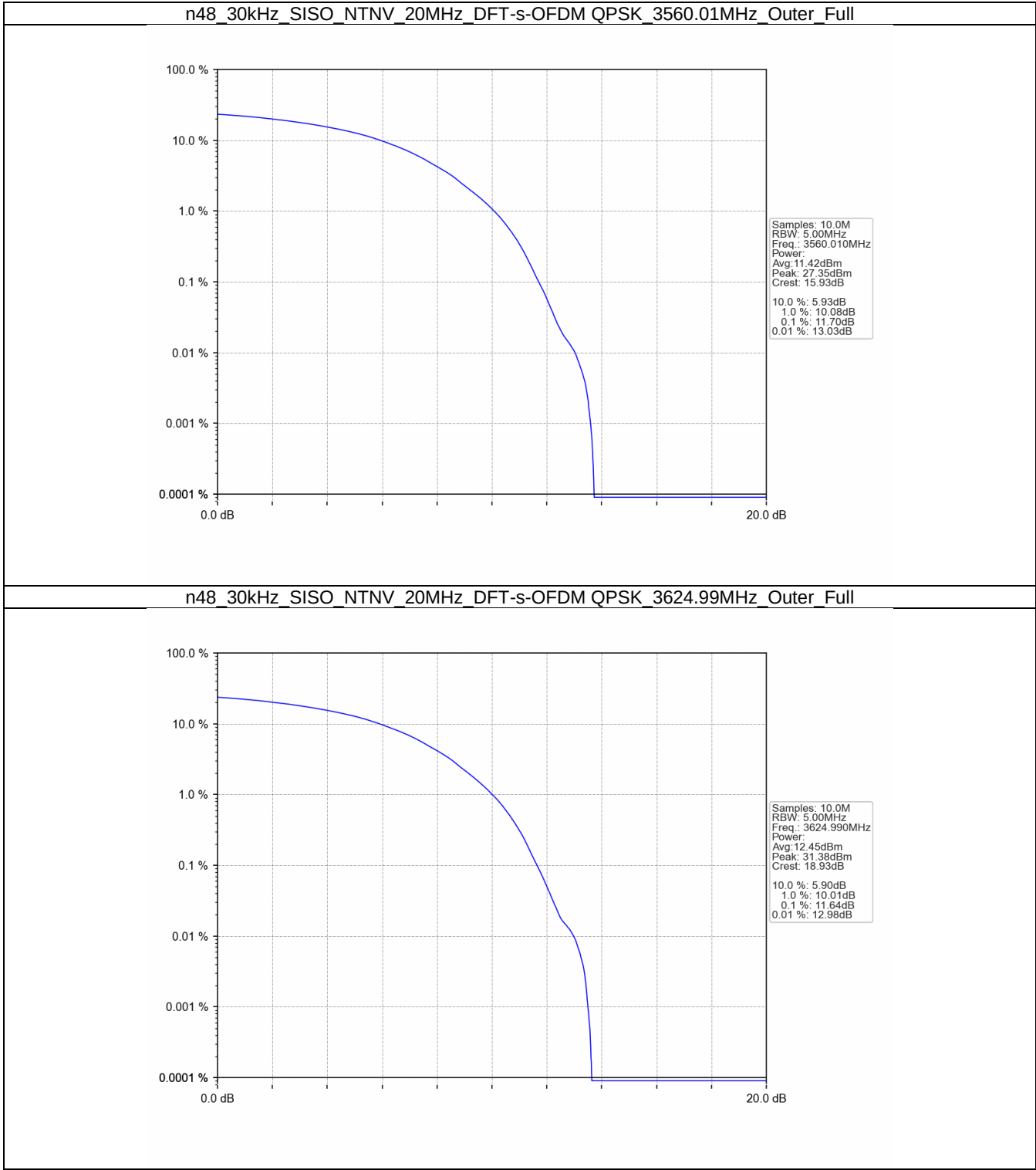


1.2 30k_SISO_20MHz_NTNV

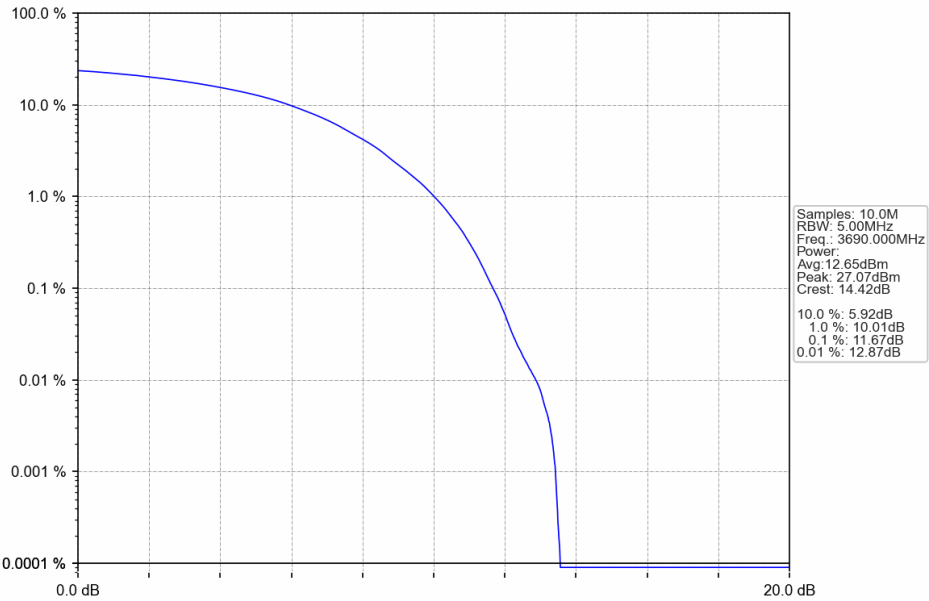
1.2.1 Test Result

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

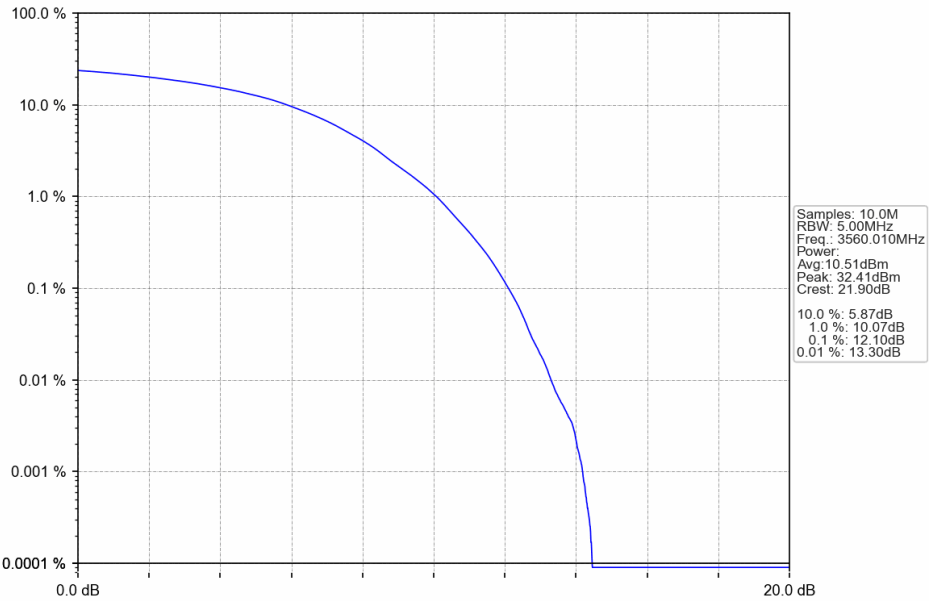
1.2.2 Test Graph



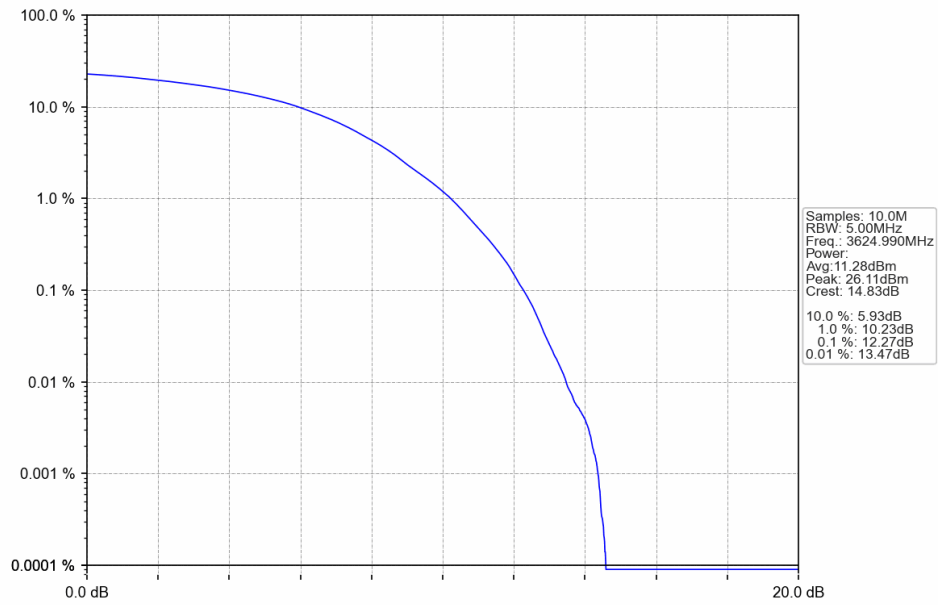
n48 30kHz SISO NTN 20MHz DFT-s-OFDM QPSK 3690MHz Outer Full



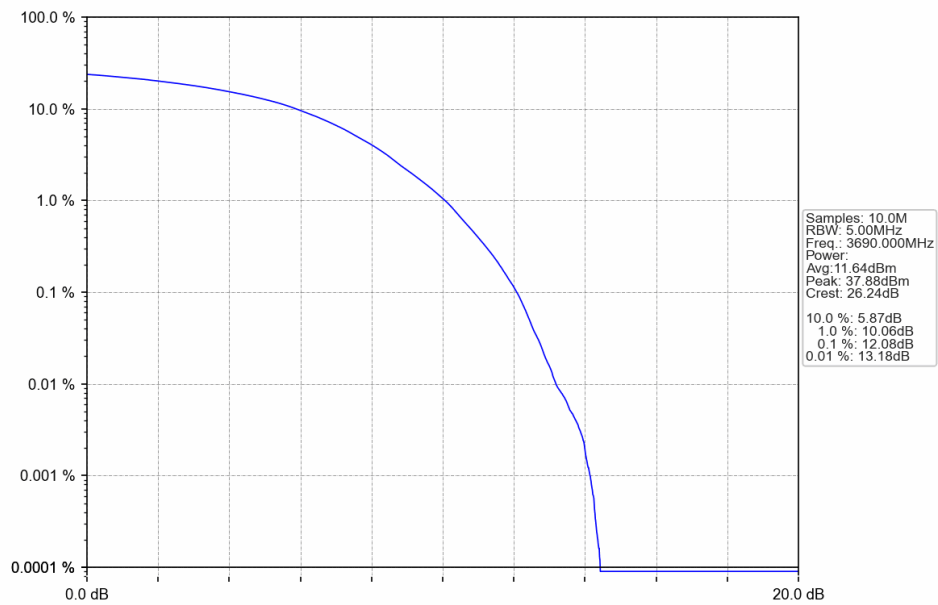
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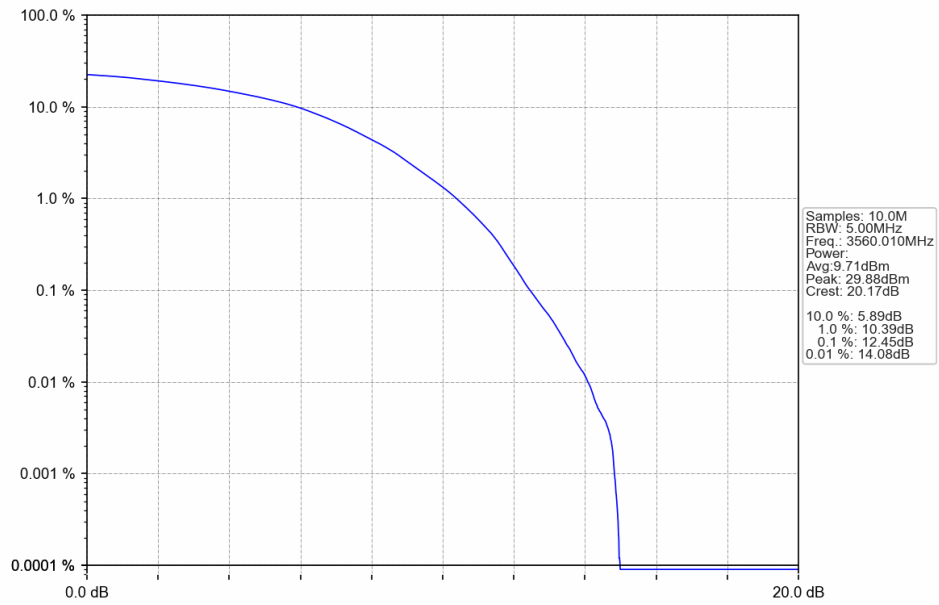
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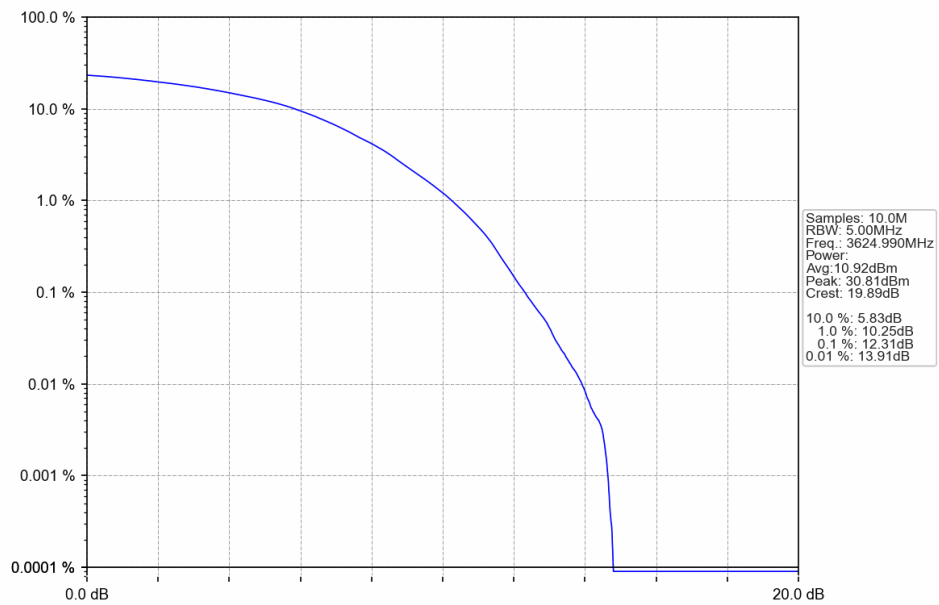
n48 30kHz SISO NTN 20MHz DFT-s-OFDM 16 QAM 3690MHz Outer Full



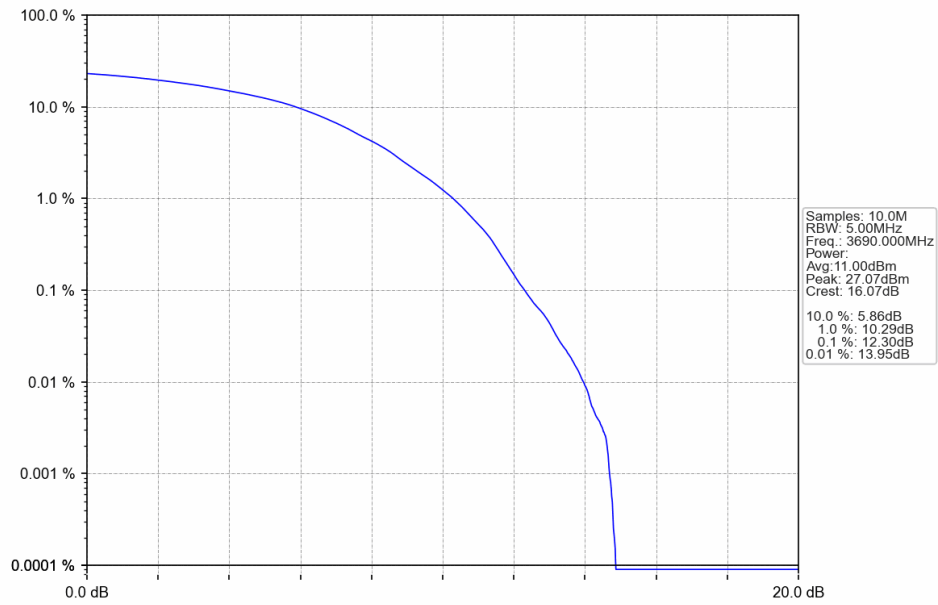
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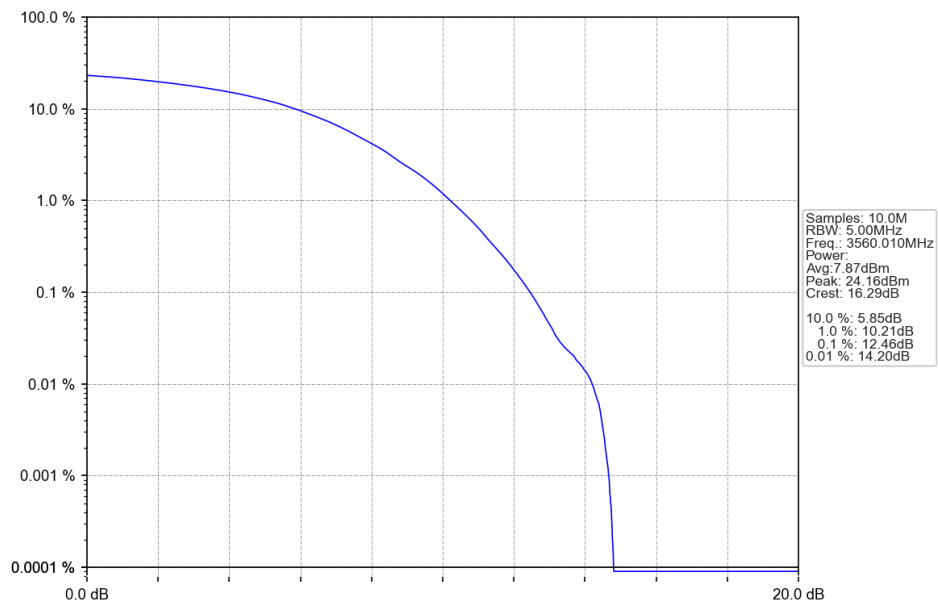
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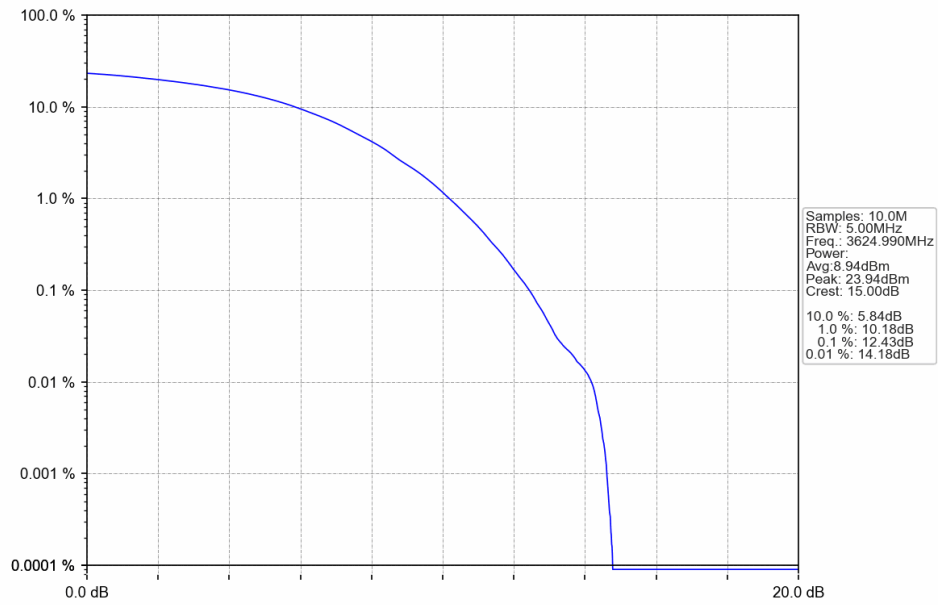
n48 30kHz SISO NTN 20MHz DFT-s-OFDM 64 QAM 3690MHz Outer Full



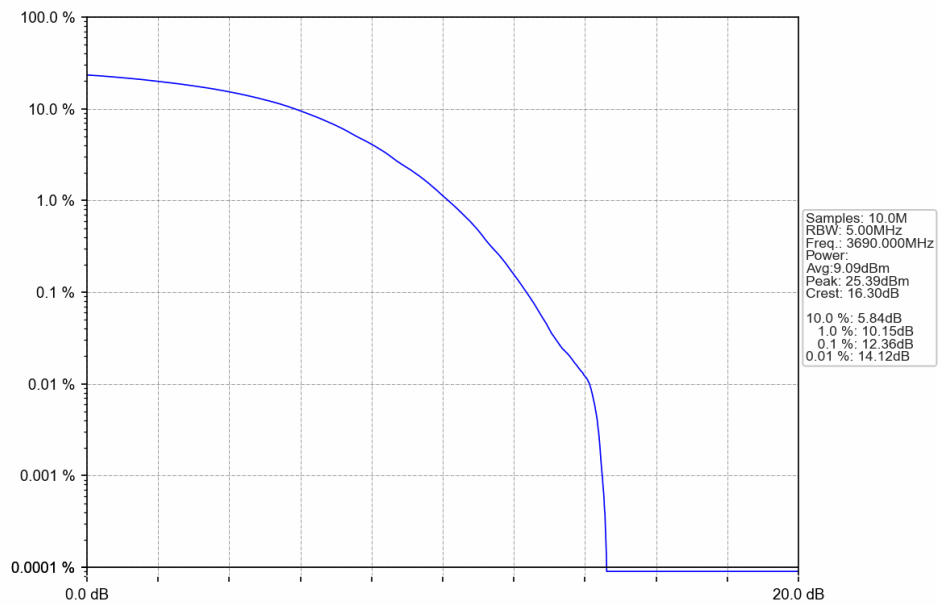
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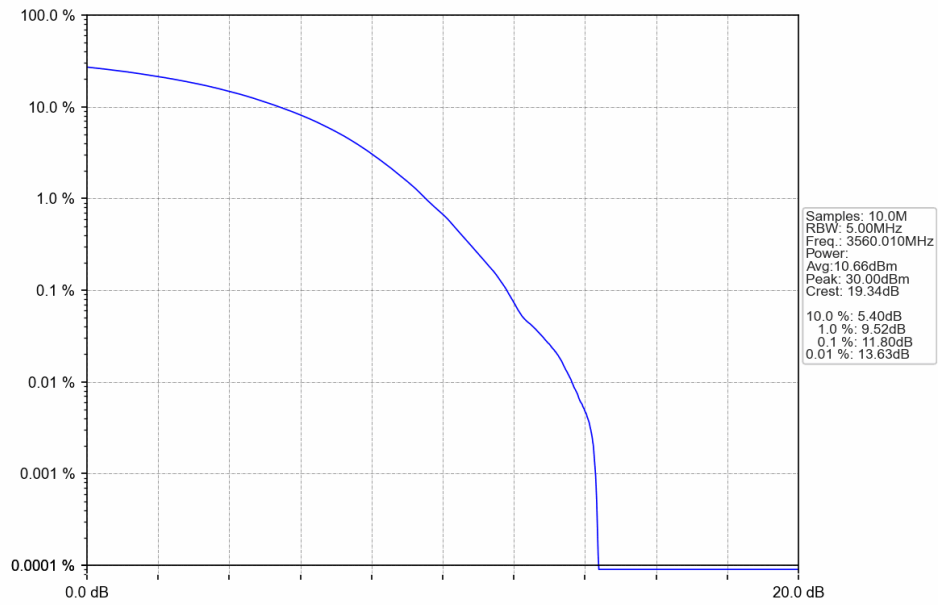
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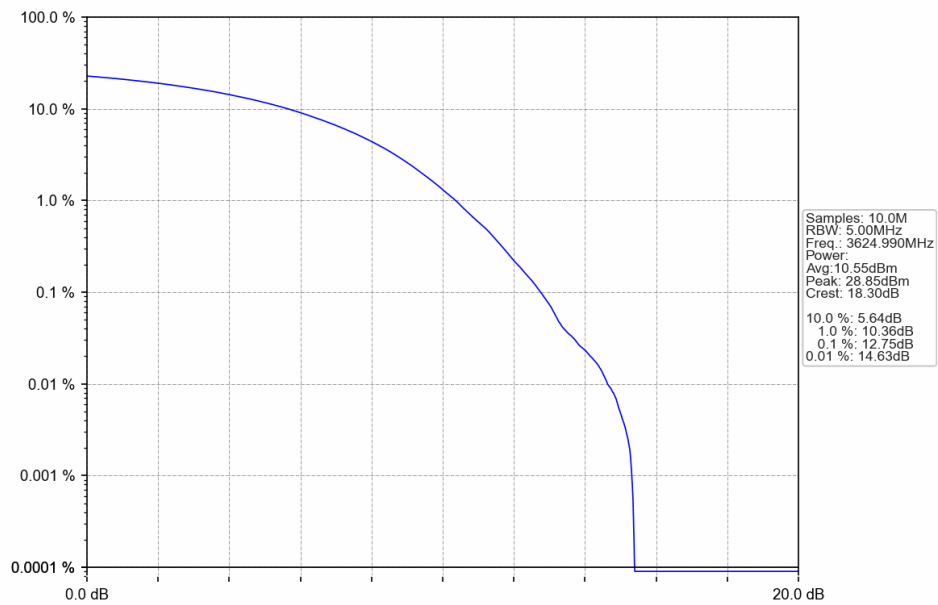
n48 30kHz SISO NTN 20MHz DFT-s-OFDM 256 QAM 3690MHz Outer Full



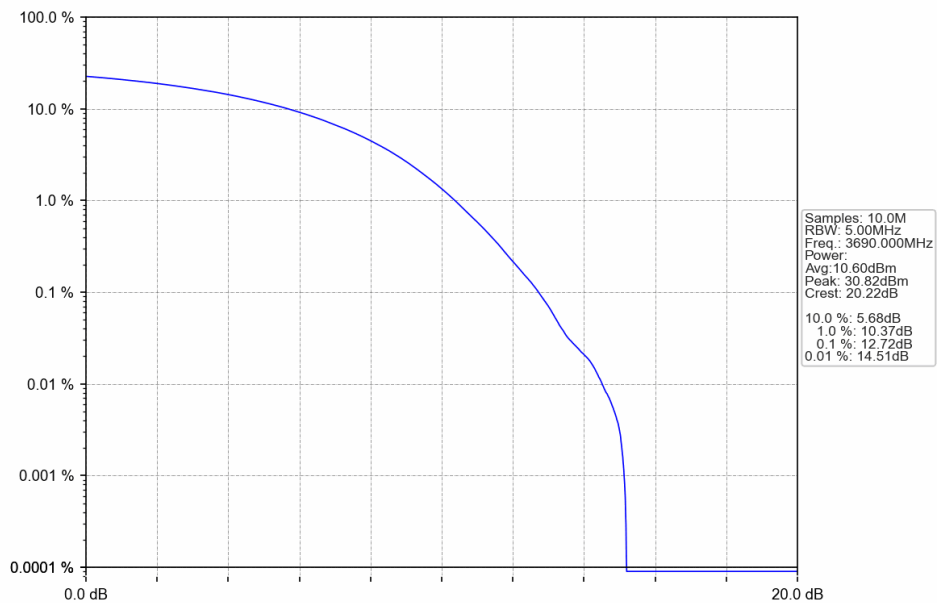
n48 30kHz SISO NTN 20MHz CP-OFDM QPSK 3560.01MHz Outer Full



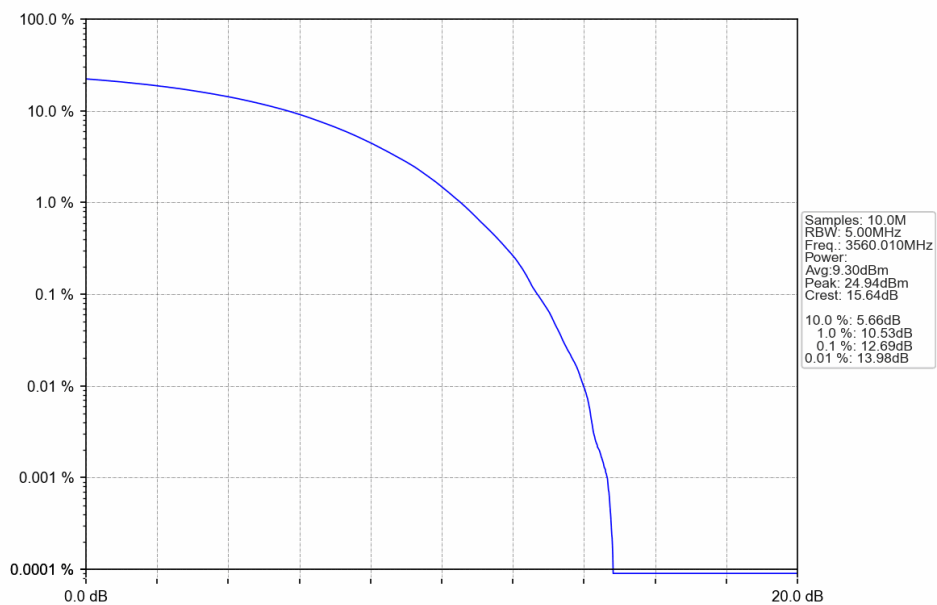
n48 30kHz SISO NTN 20MHz CP-OFDM QPSK 3624.99MHz Outer Full



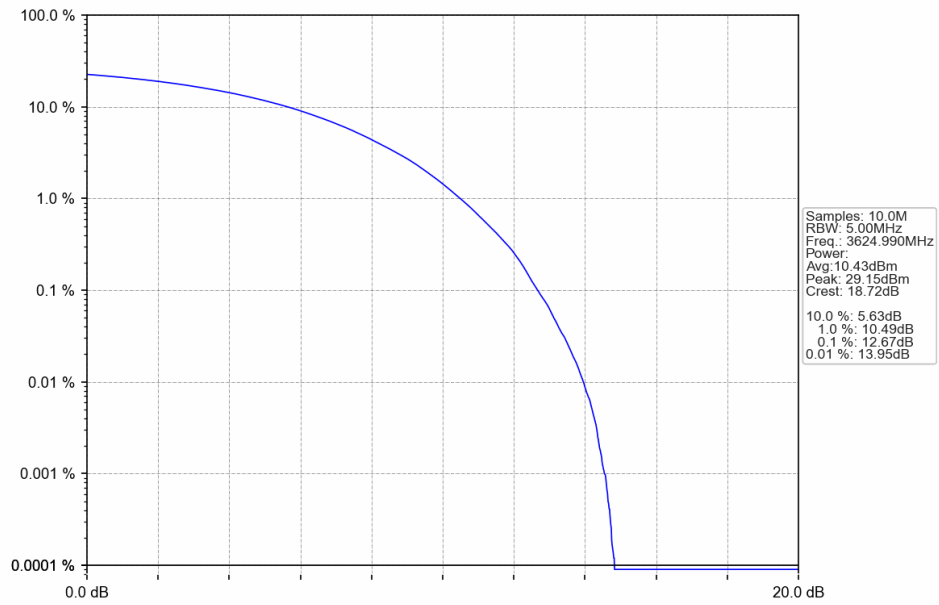
n48 30kHz SISO NTN 20MHz CP-OFDM QPSK 3690MHz Outer Full



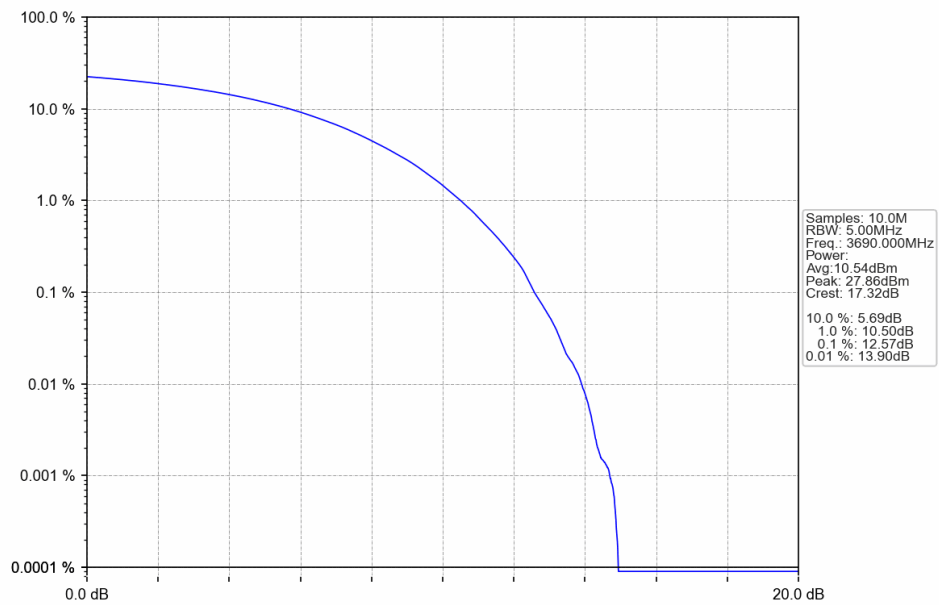
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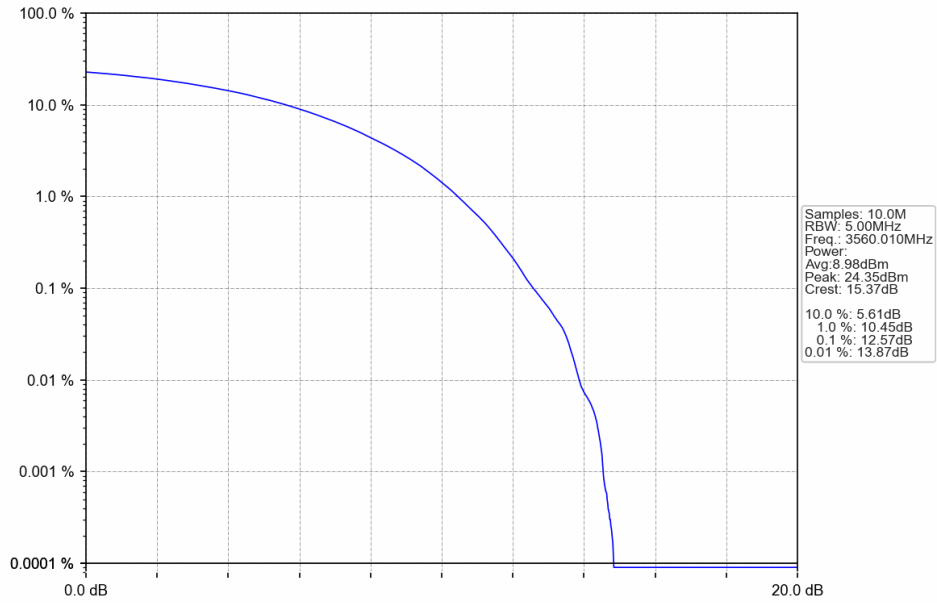
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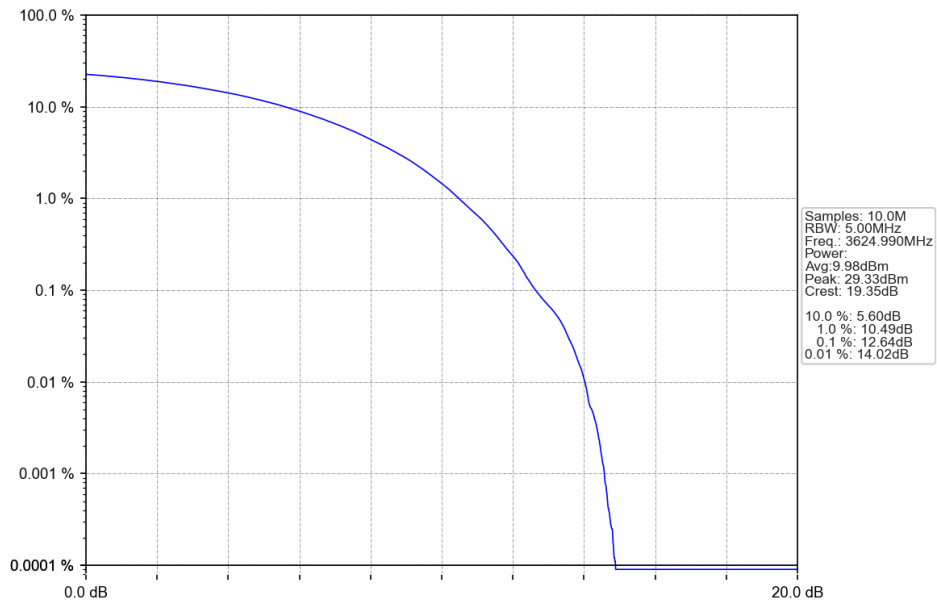
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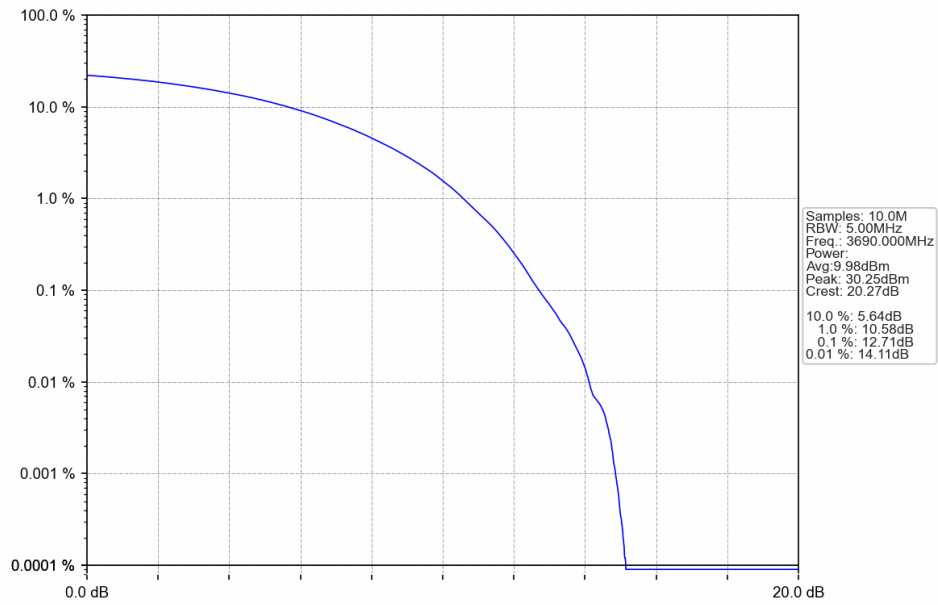
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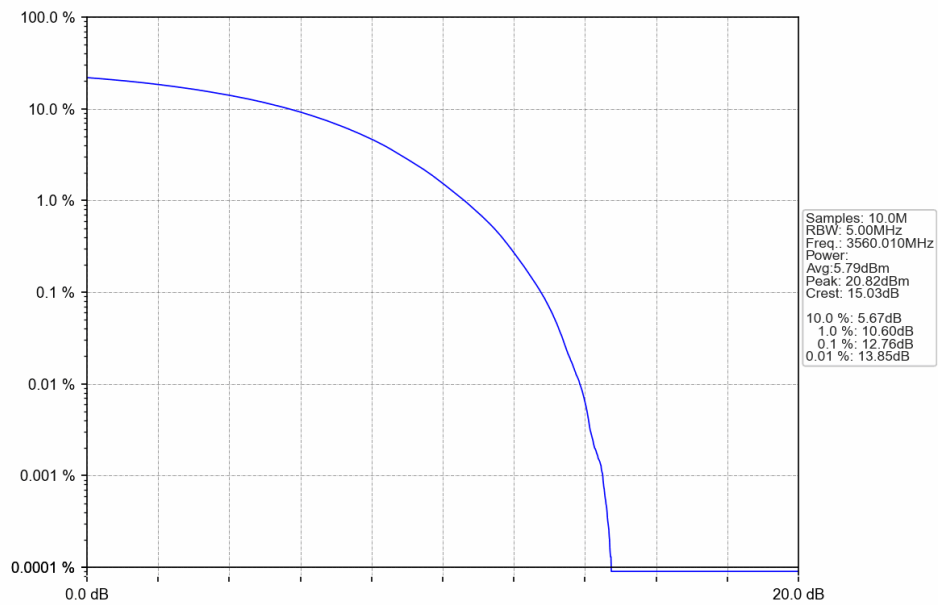
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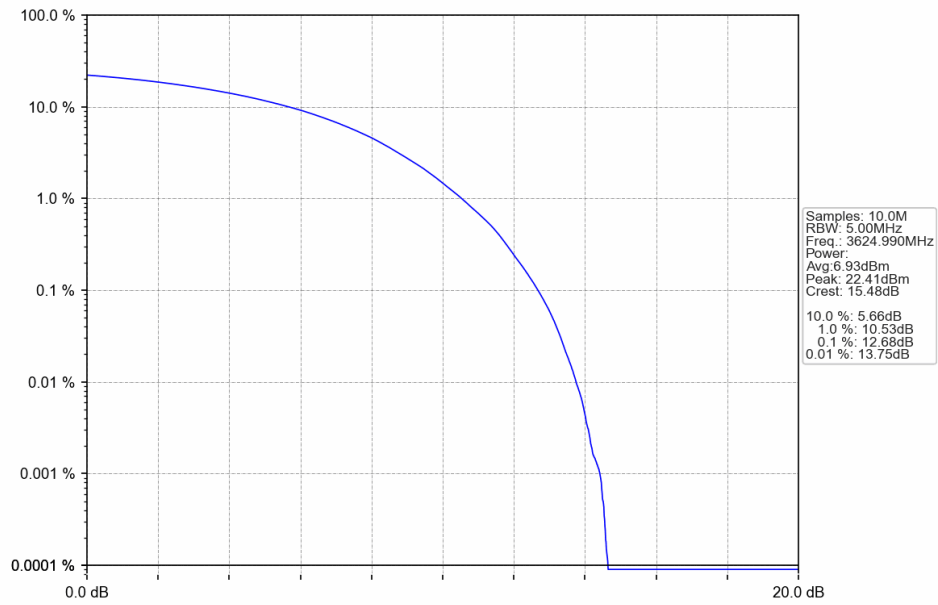
n48 30kHz SISO NTN 20MHz CP-OFDM 64 QAM 3690MHz Outer Full



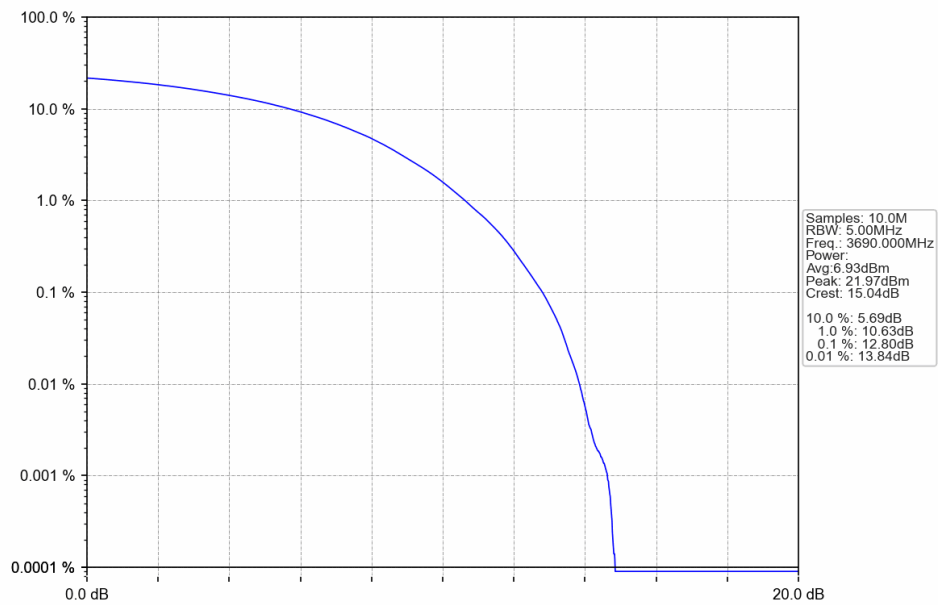
n48 30kHz SISO NTN 20MHz CP-OFDM 256 QAM 3560.01MHz Outer Full



n48 30kHz SISO NTN 20MHz CP-OFDM 256 QAM 3624.99MHz Outer Full



n48 30kHz SISO NTN 20MHz CP-OFDM 256 QAM 3690MHz Outer Full

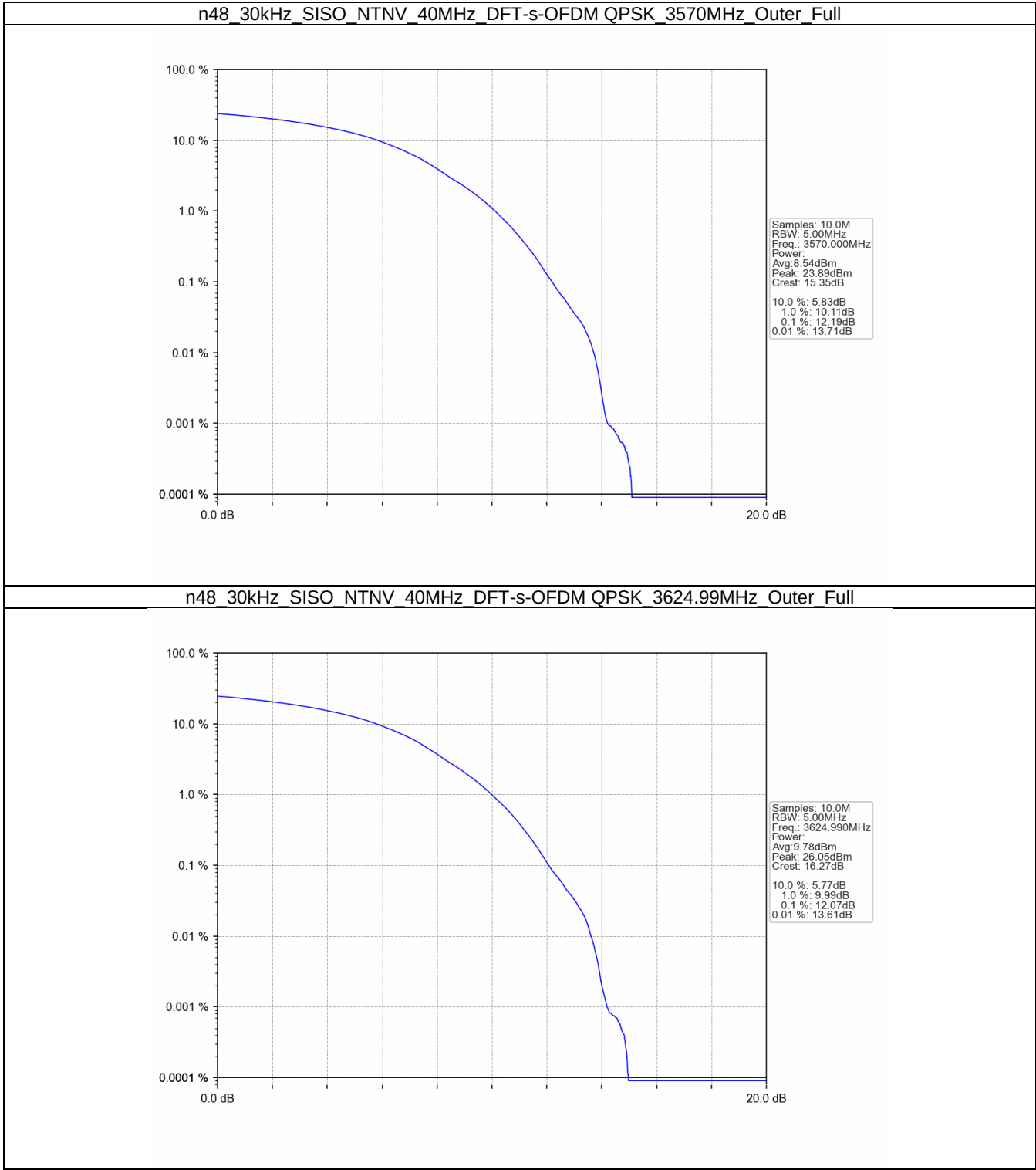


1.3 30k_SISO_40MHz_NTNV

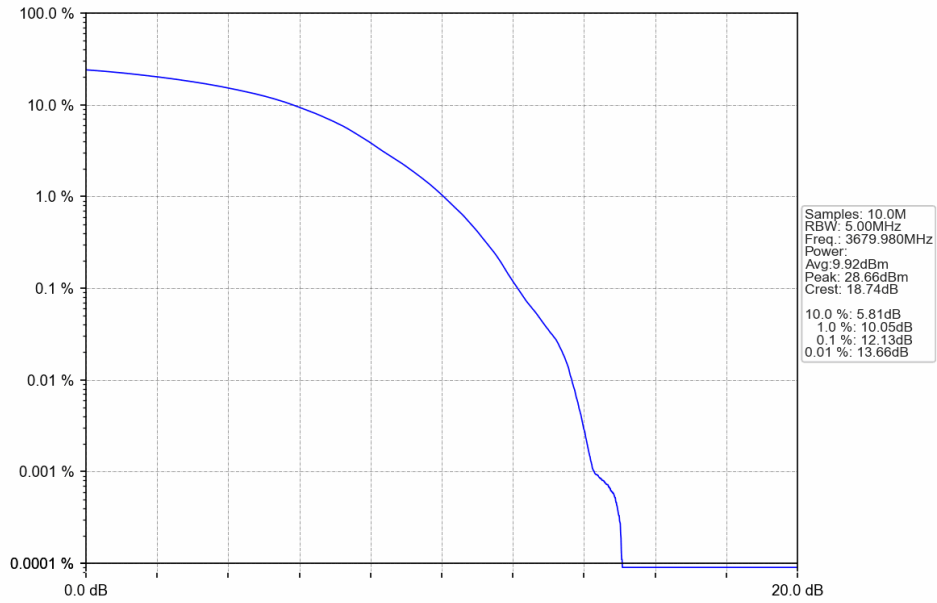
1.3.1 Test Result

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
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	3679.98	Outer_Full	12.64	/	/	<=13	Pass

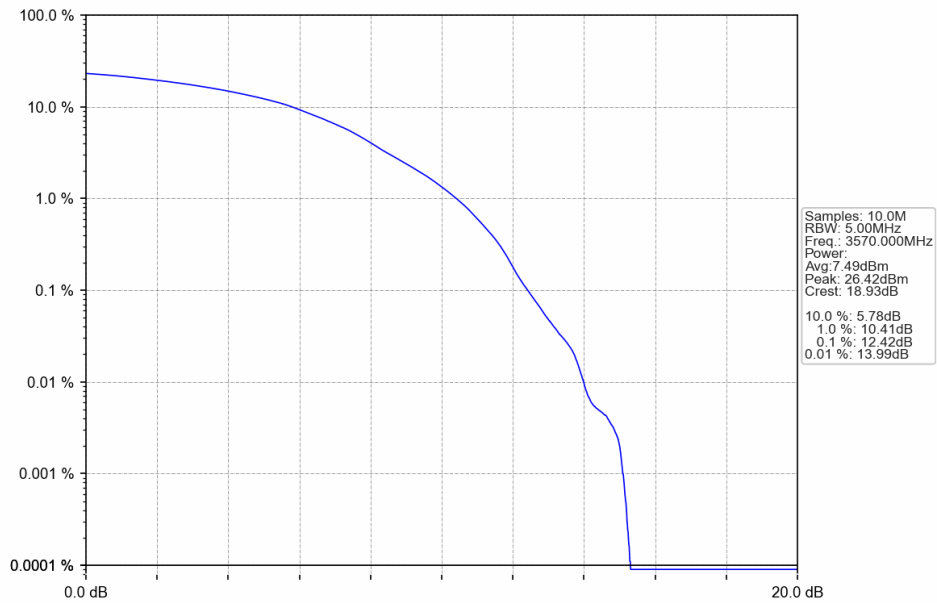
1.3.2 Test Graph



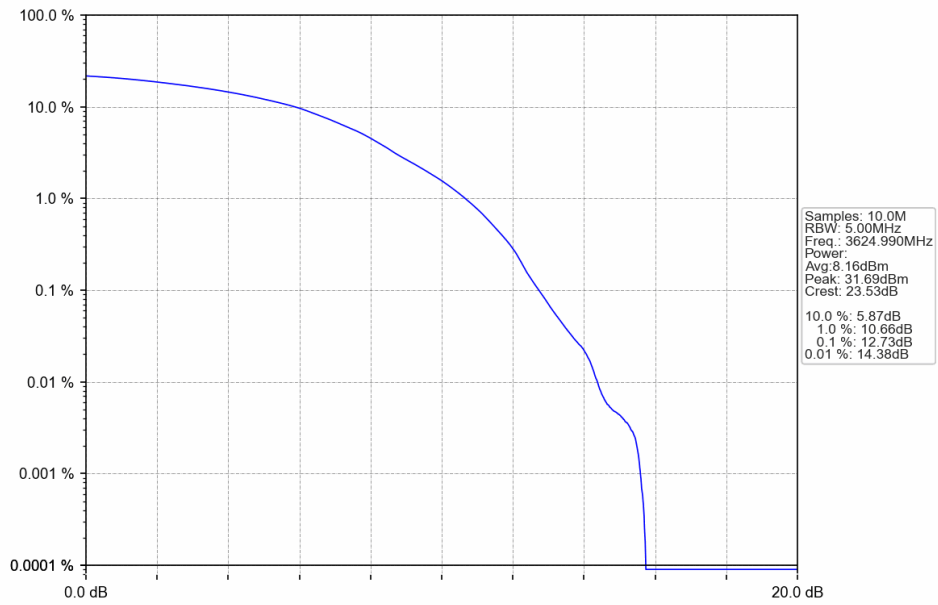
n48 30kHz SISO NTN 40MHz DFT-s-OFDM QPSK 3679.98MHz Outer Full



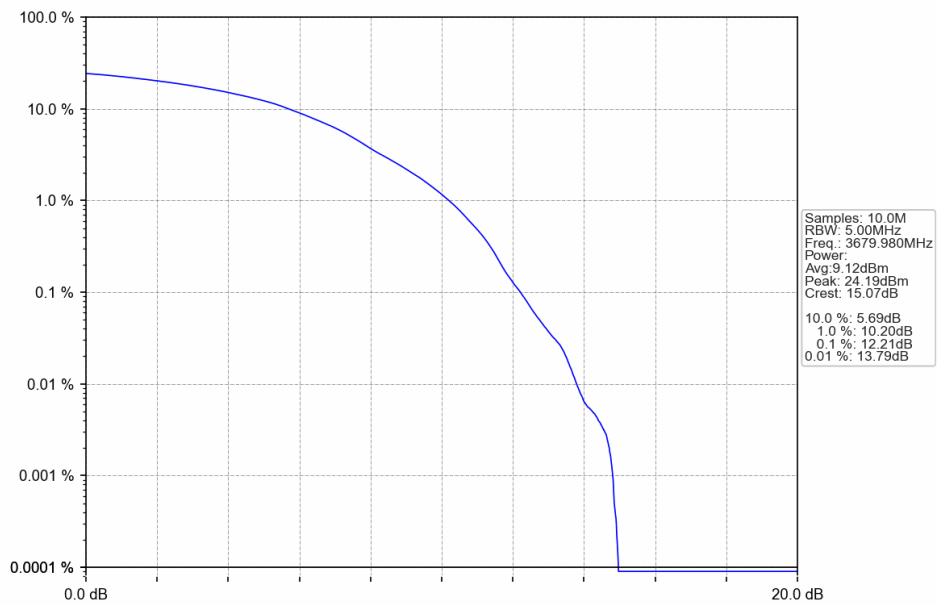
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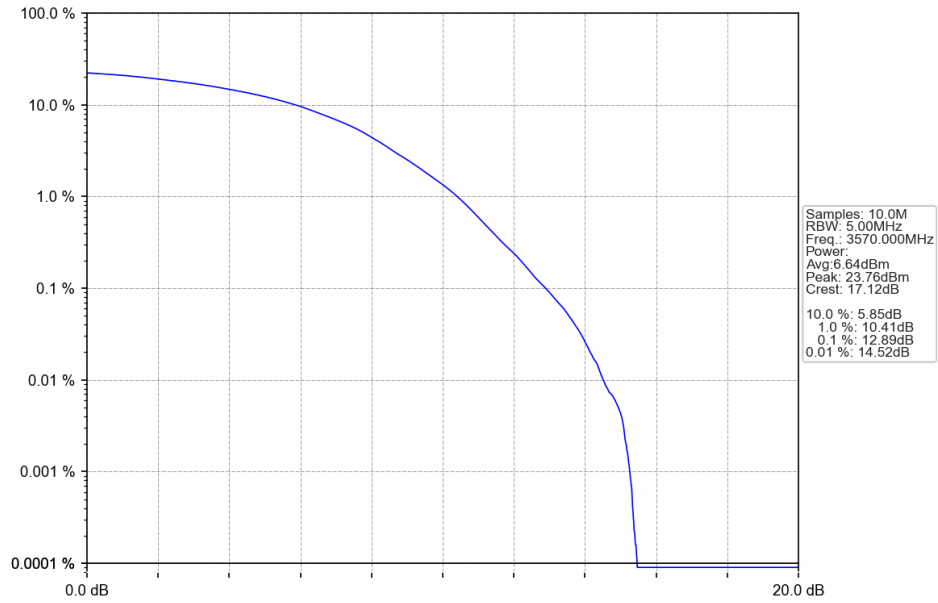
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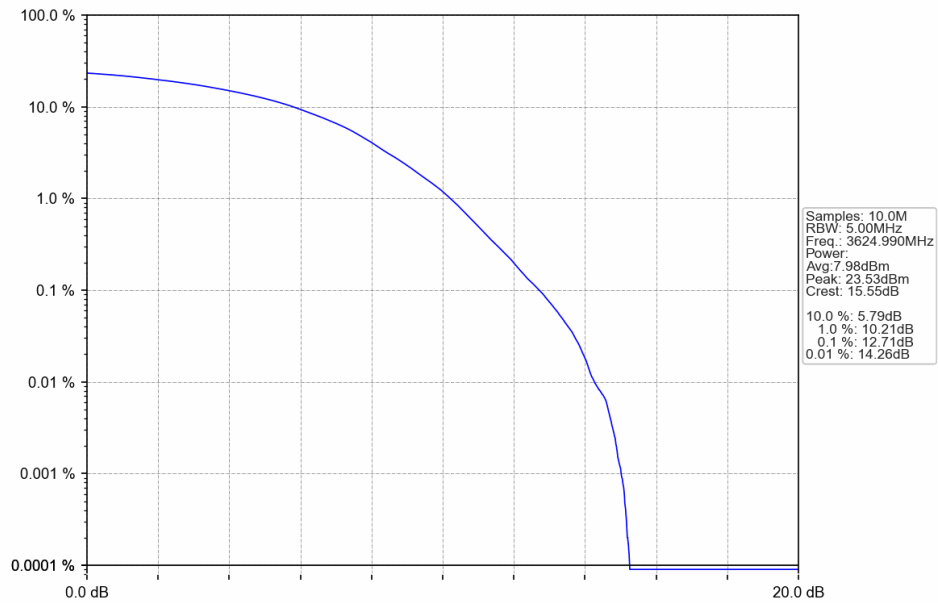
n48 30kHz SISO NTN 40MHz DFT-s-OFDM 16 QAM 3679.98MHz Outer Full



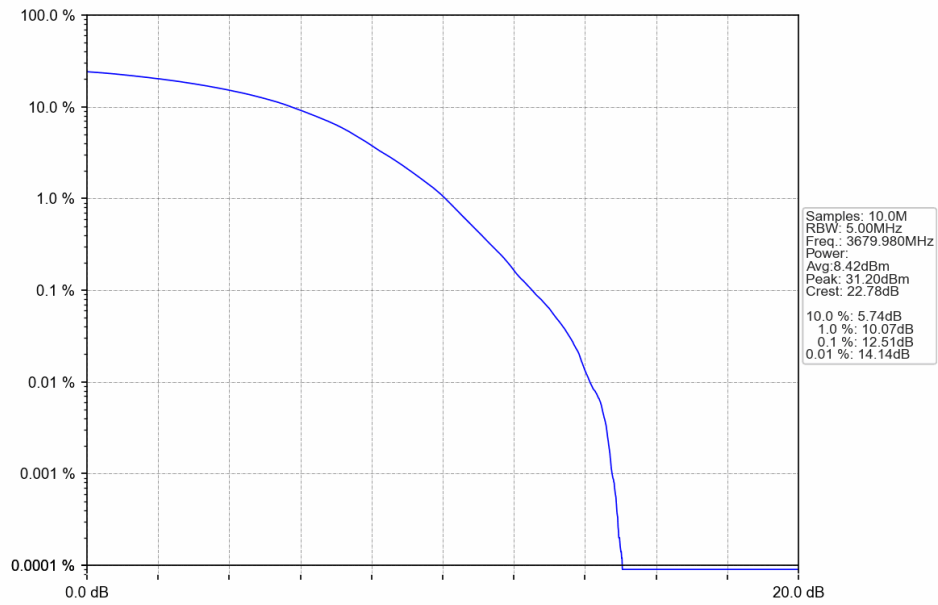
n48 30kHz SISO NTN 40MHz DFT-s-OFDM 64 QAM 3570MHz Outer Full



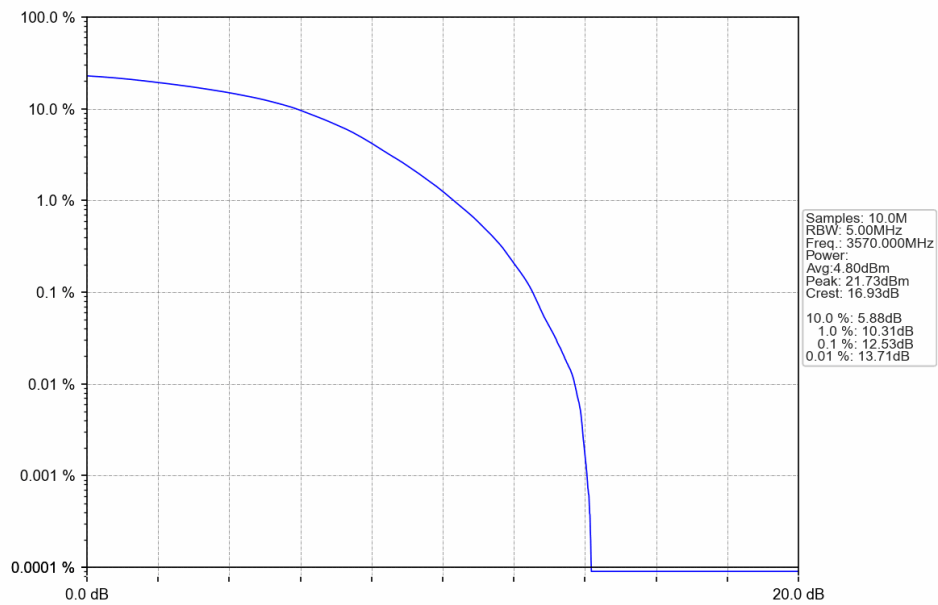
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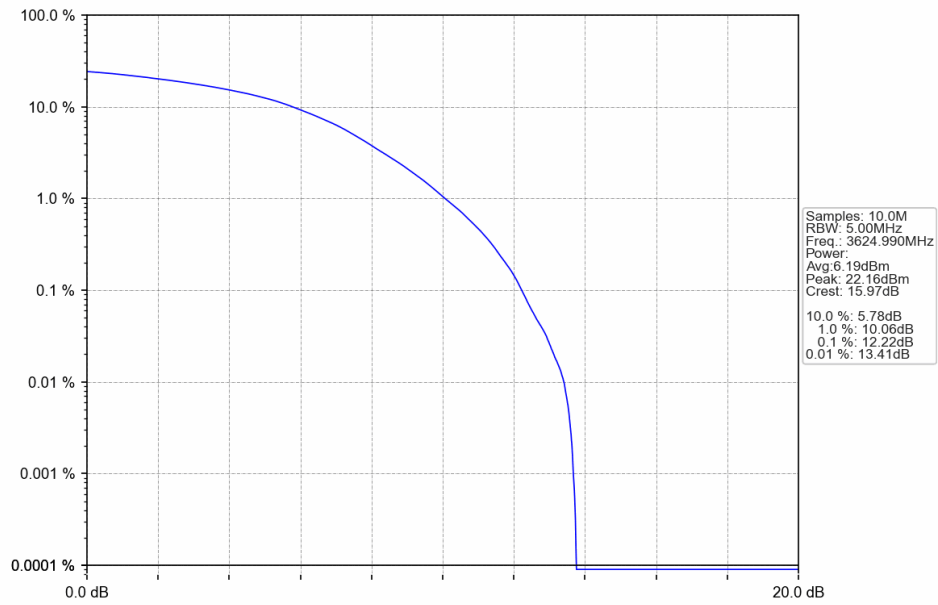
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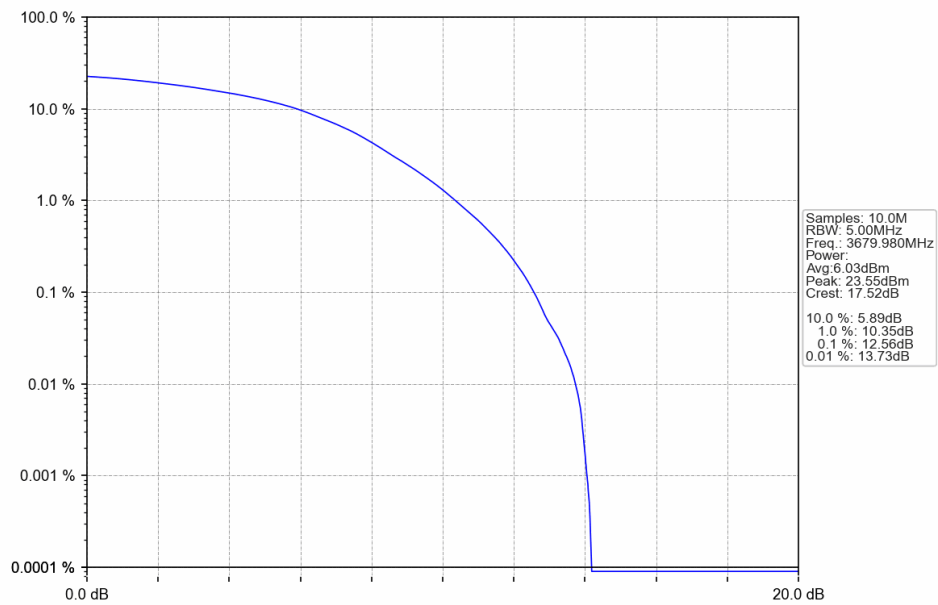
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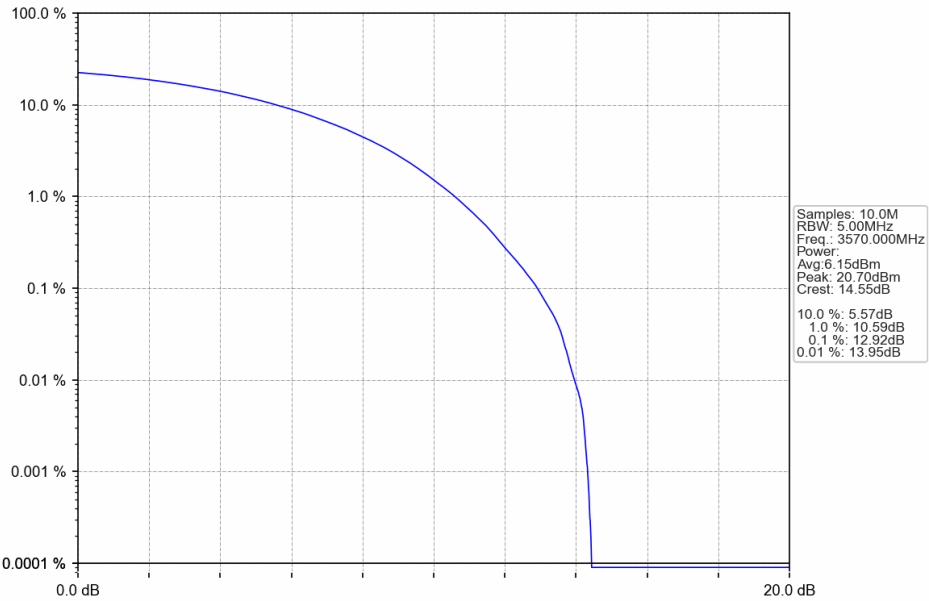
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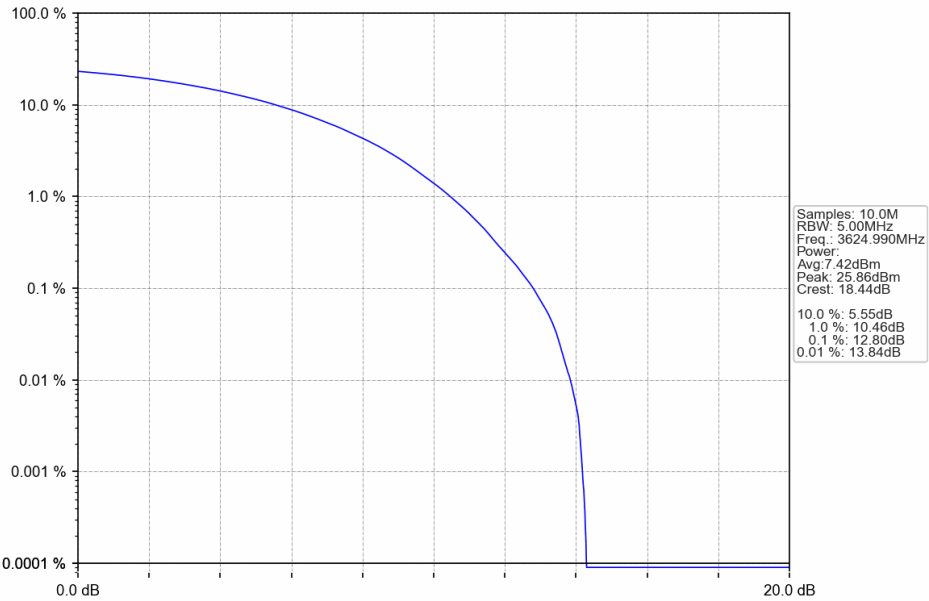
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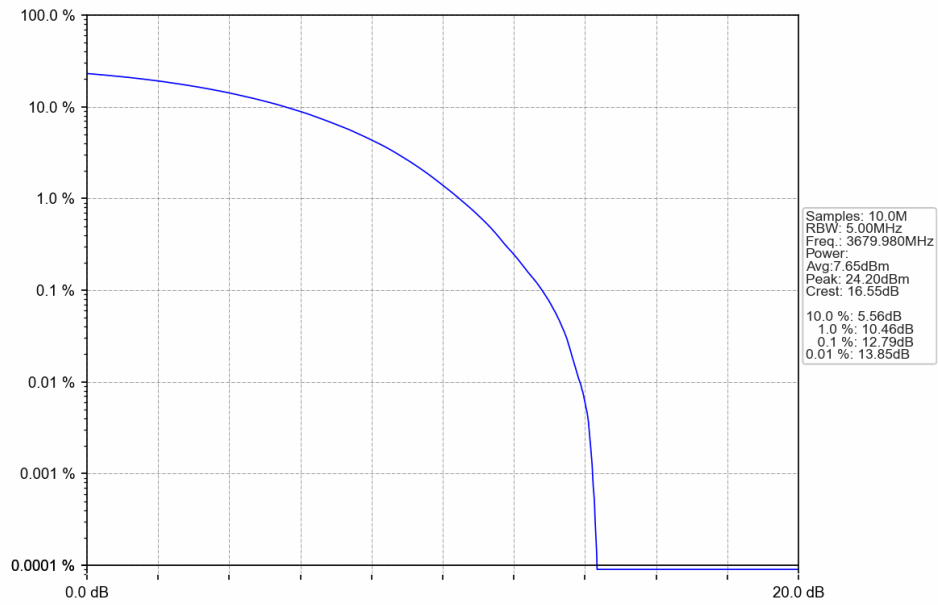
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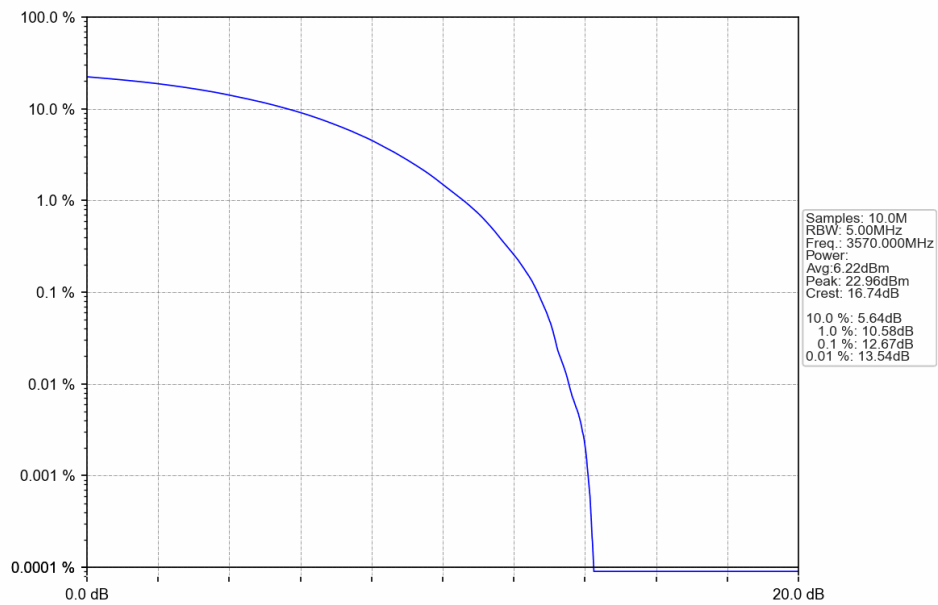
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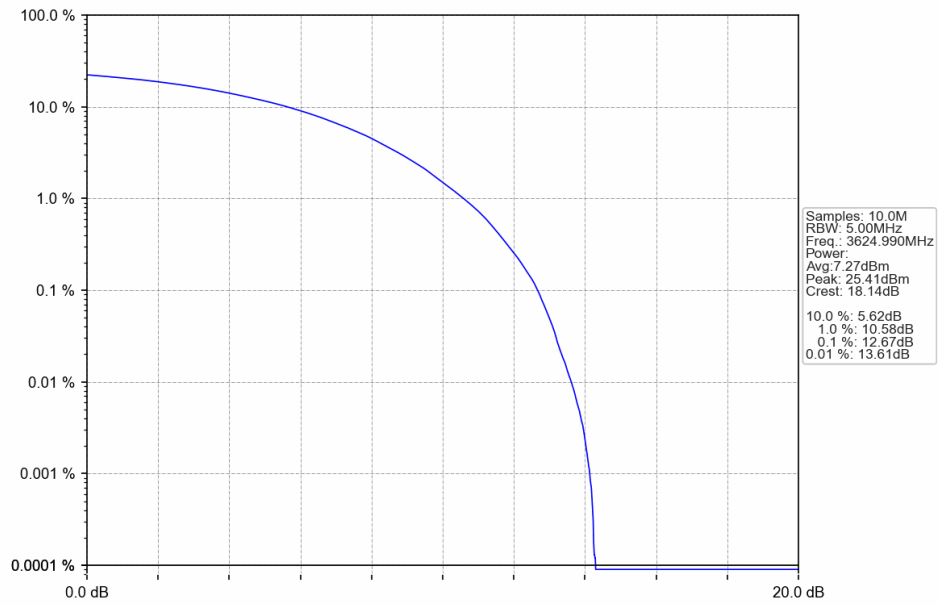
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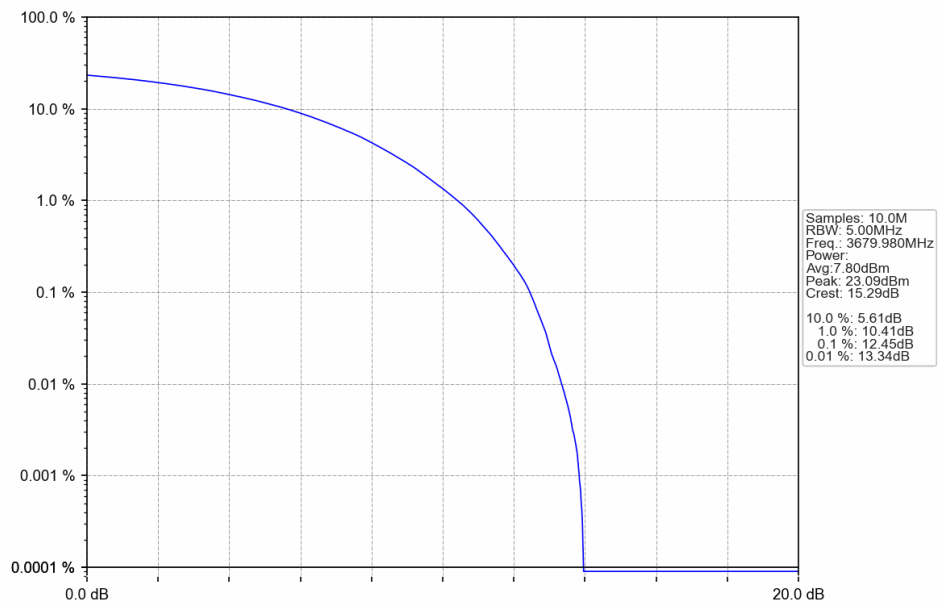
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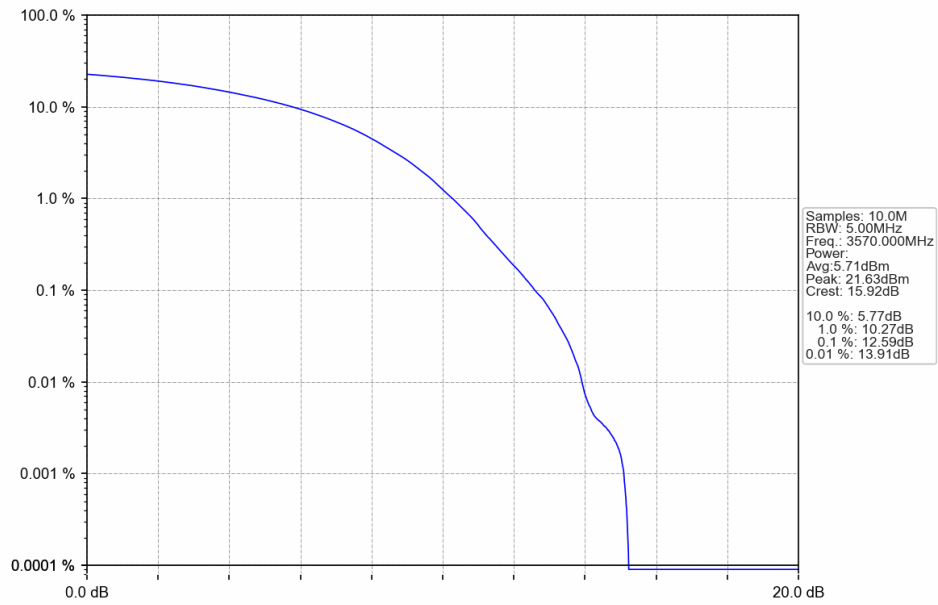
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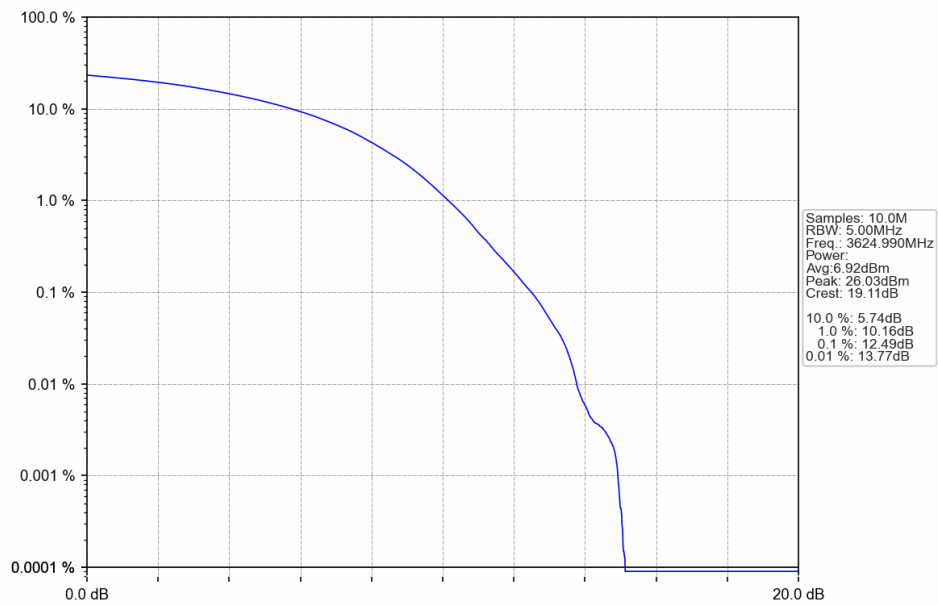
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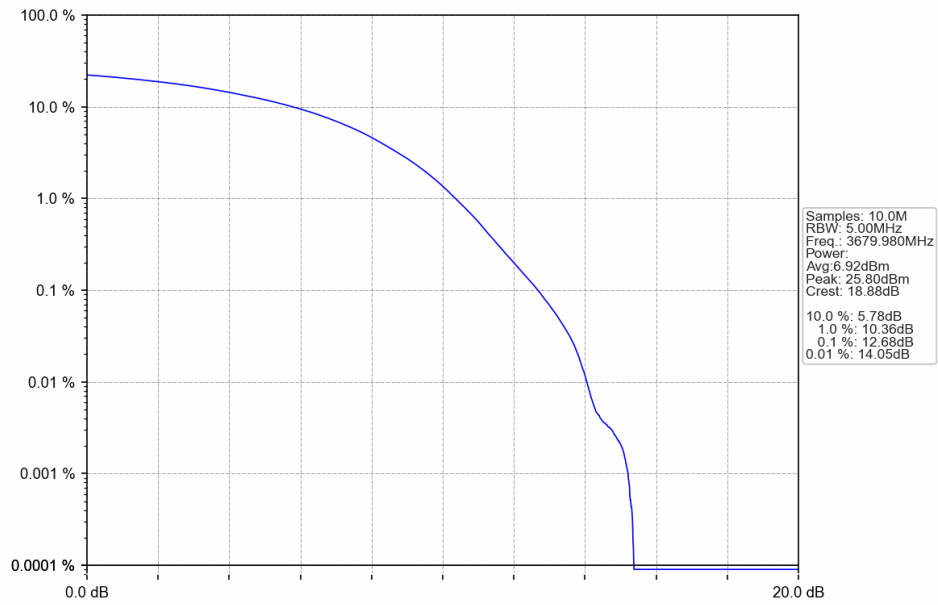
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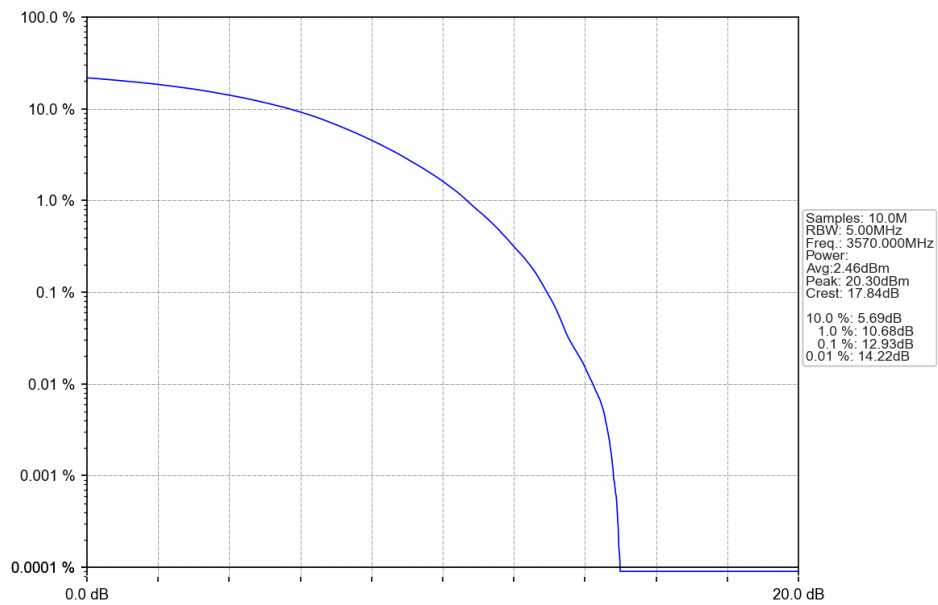
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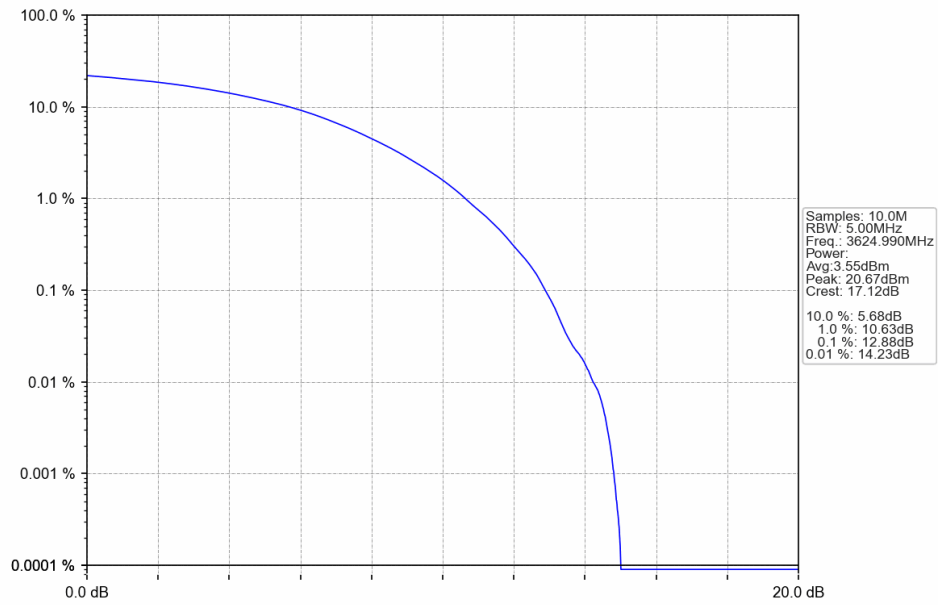
n48 30kHz SISO NTN 40MHz CP-OFDM 64 QAM 3679.98MHz Outer Full



n48 30kHz SISO NTN 40MHz CP-OFDM 256 QAM 3570MHz Outer Full



n48 30kHz SISO NTN 40MHz CP-OFDM 256 QAM 3624.99MHz Outer Full



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