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## 1. Peak-Average Ratio

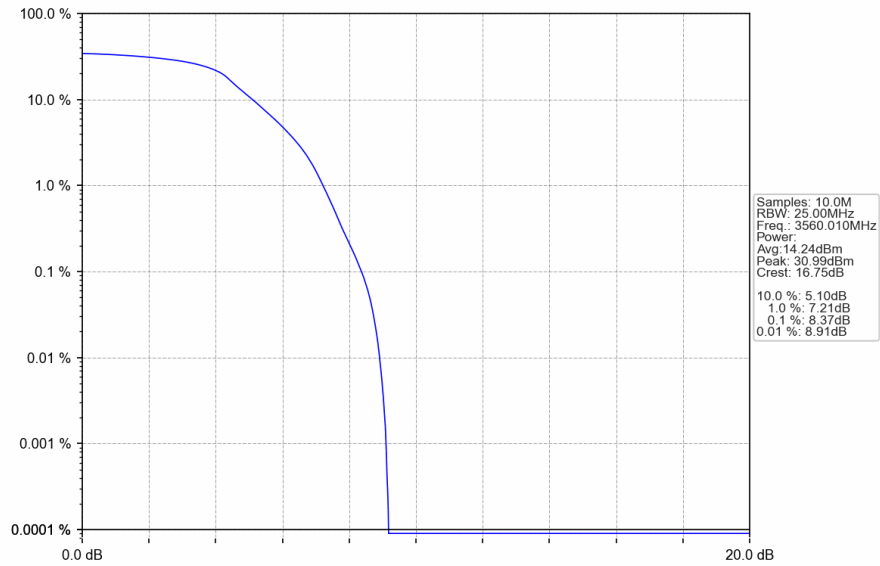
### 1.1 30k\_SISO\_20MHz\_NTNV

#### 1.1.1 Test Result

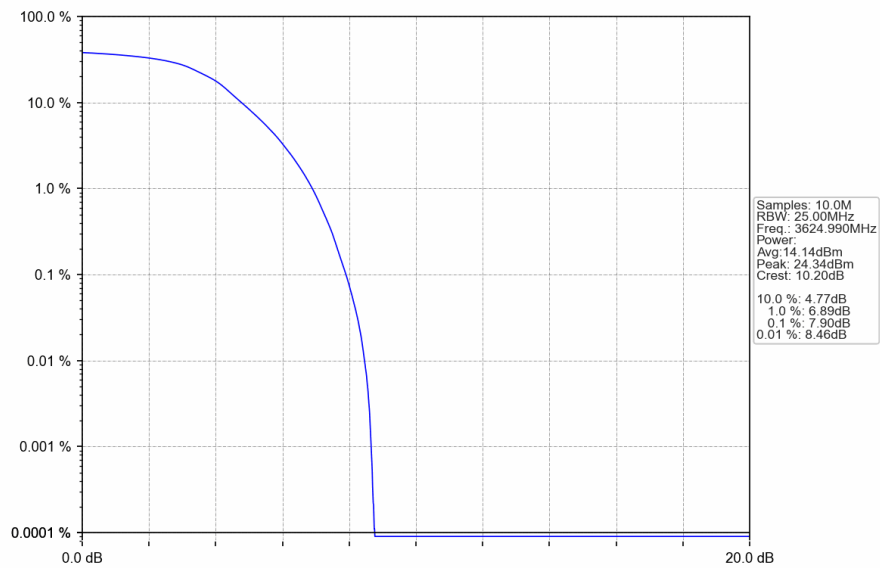
5G NR n48 SCS=30kHz SISO 20MHz NTNv							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3560.01	Outer_Full	8.37	/	/	<=13	Pass
	3624.99	Outer_Full	7.90	/	/	<=13	Pass
	3690	Outer_Full	7.77	/	/	<=13	Pass
DFT-s-OFDM QPSK	3560.01	Outer_Full	9.01	/	/	<=13	Pass
	3624.99	Outer_Full	9.01	/	/	<=13	Pass
	3690	Outer_Full	8.48	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3560.01	Outer_Full	9.49	/	/	<=13	Pass
	3624.99	Outer_Full	9.79	/	/	<=13	Pass
	3690	Outer_Full	9.45	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3560.01	Outer_Full	10.00	/	/	<=13	Pass
	3624.99	Outer_Full	10.41	/	/	<=13	Pass
	3690	Outer_Full	10.18	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3560.01	Outer_Full	10.16	/	/	<=13	Pass
	3624.99	Outer_Full	10.03	/	/	<=13	Pass
	3690	Outer_Full	10.01	/	/	<=13	Pass
CP-OFDM QPSK	3560.01	Outer_Full	10.71	/	/	<=13	Pass
	3624.99	Outer_Full	11.53	/	/	<=13	Pass
	3690	Outer_Full	11.25	/	/	<=13	Pass
CP-OFDM 16 QAM	3560.01	Outer_Full	11.02	/	/	<=13	Pass
	3624.99	Outer_Full	11.47	/	/	<=13	Pass
	3690	Outer_Full	11.23	/	/	<=13	Pass
CP-OFDM 64 QAM	3560.01	Outer_Full	11.63	/	/	<=13	Pass
	3624.99	Outer_Full	11.32	/	/	<=13	Pass
	3690	Outer_Full	11.02	/	/	<=13	Pass
CP-OFDM 256 QAM	3560.01	Outer_Full	12.01	/	/	<=13	Pass
	3624.99	Outer_Full	11.79	/	/	<=13	Pass
	3690	Outer_Full	11.64	/	/	<=13	Pass

### 1.1.2 Test Graph

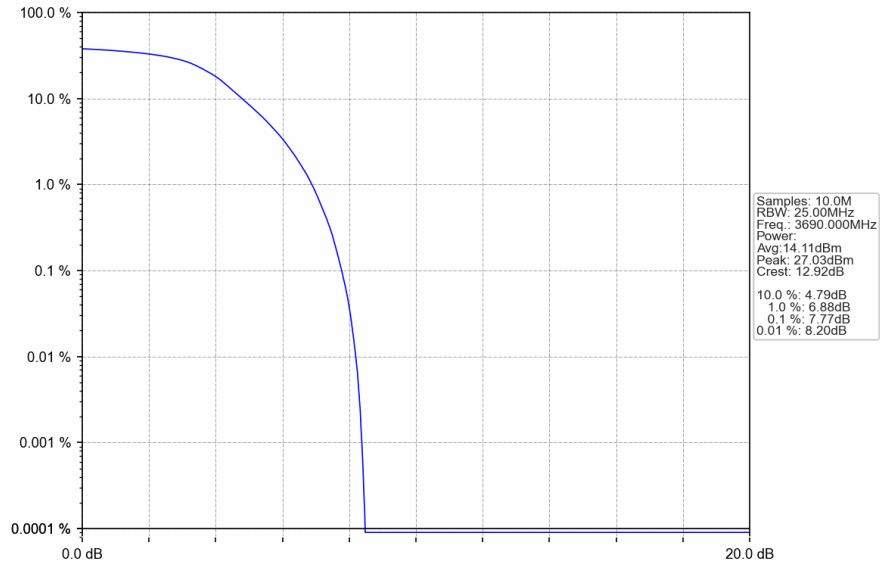
n48\_30kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM PI/2 BPSK\_3560.01MHz\_Outer\_Full



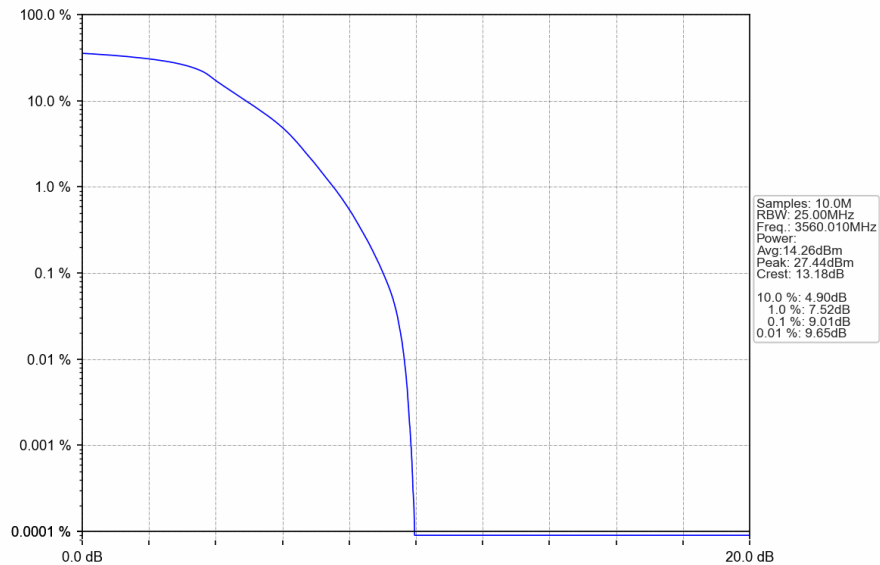
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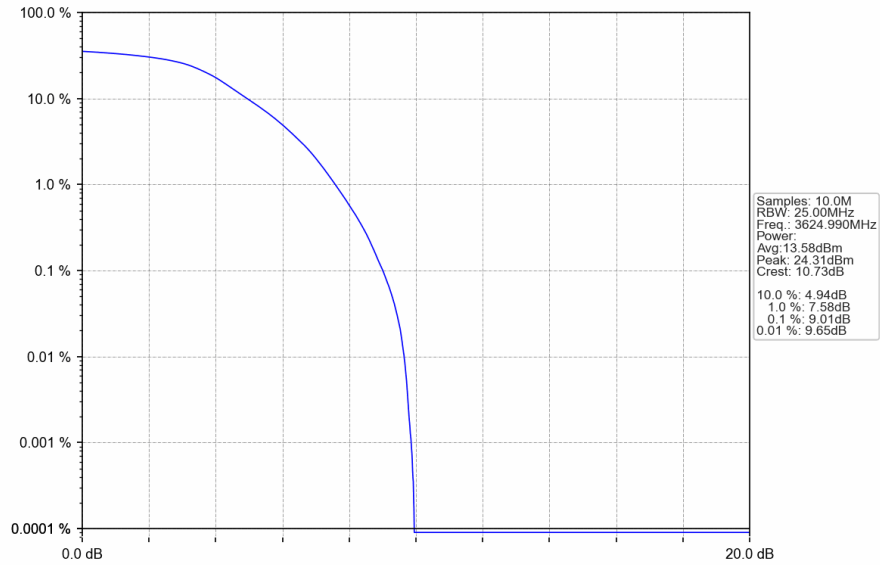
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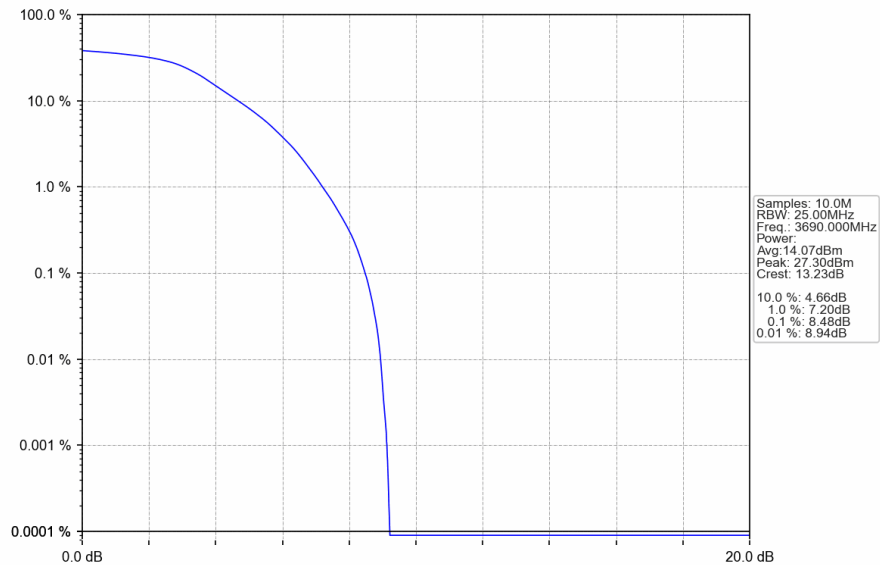
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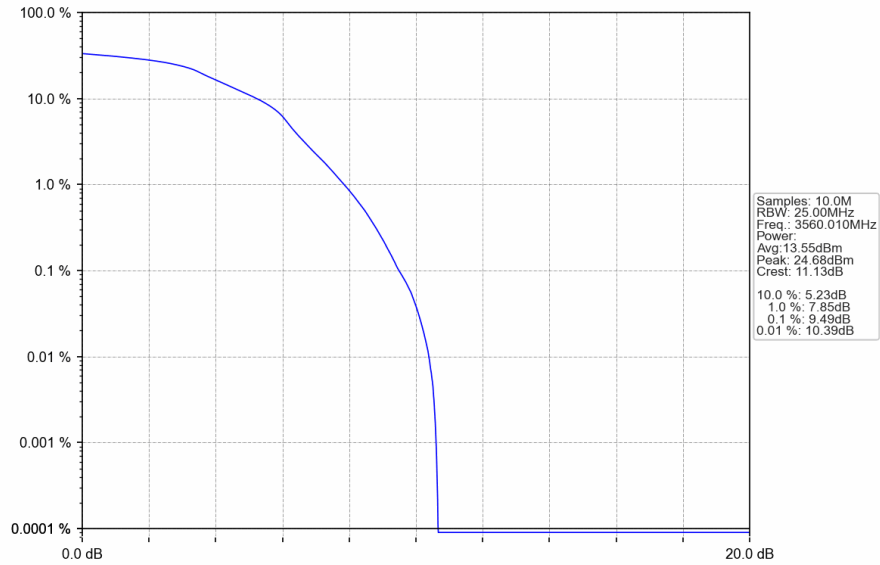
n48\_30kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM\_QPSK\_3624.99MHz\_Outer\_Full



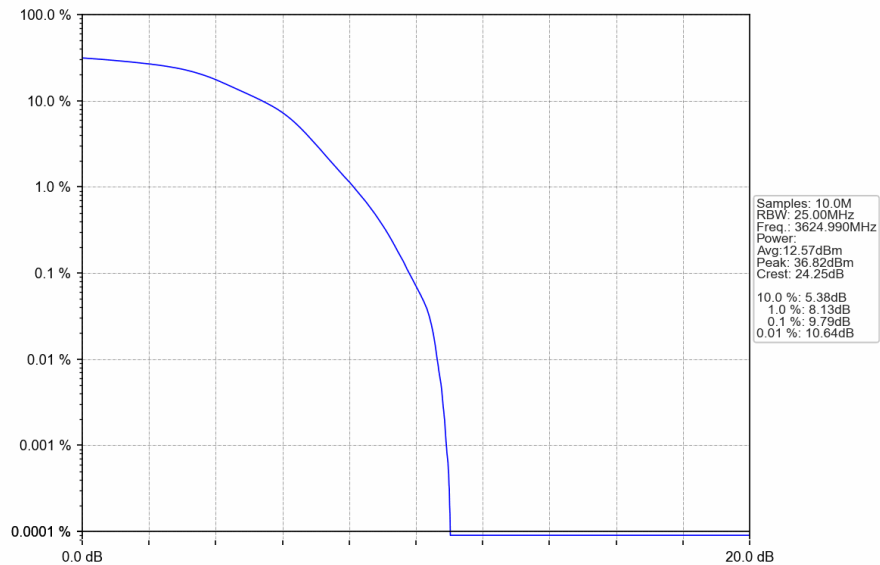
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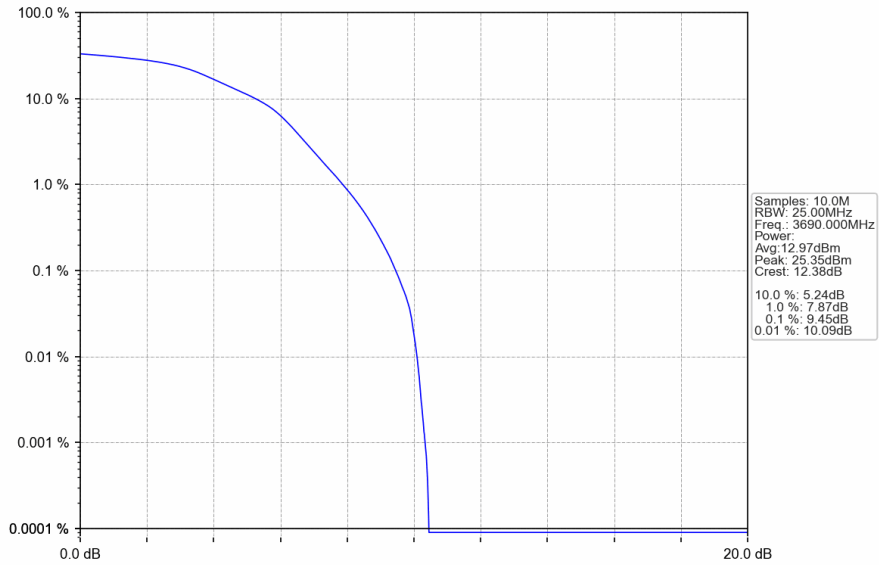
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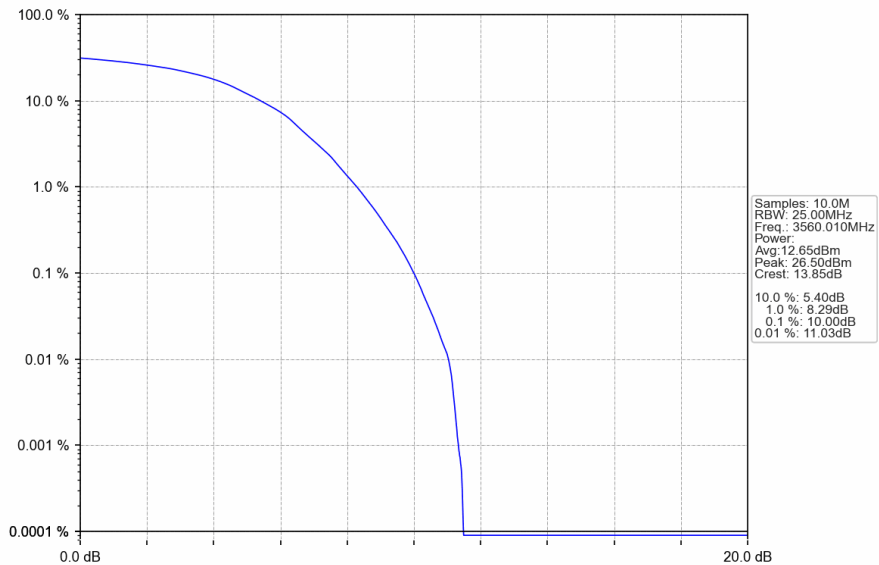
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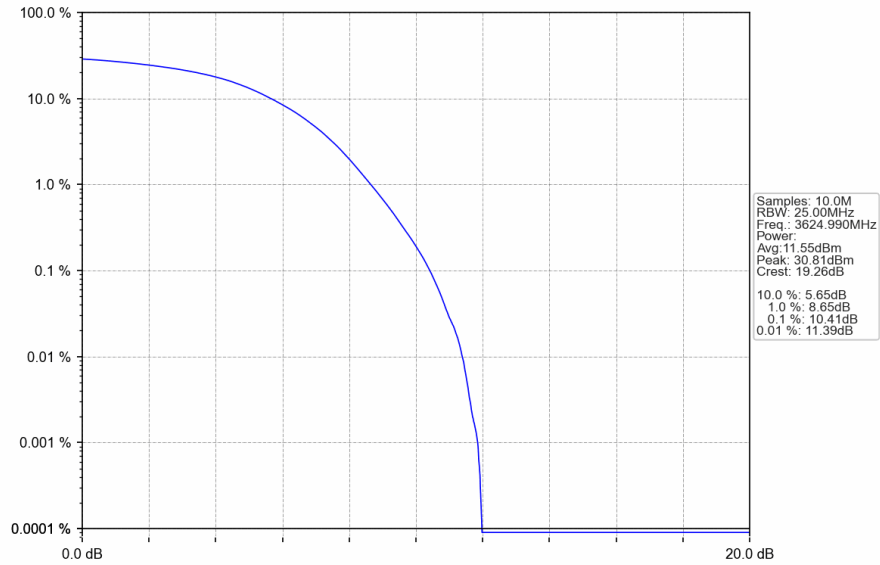
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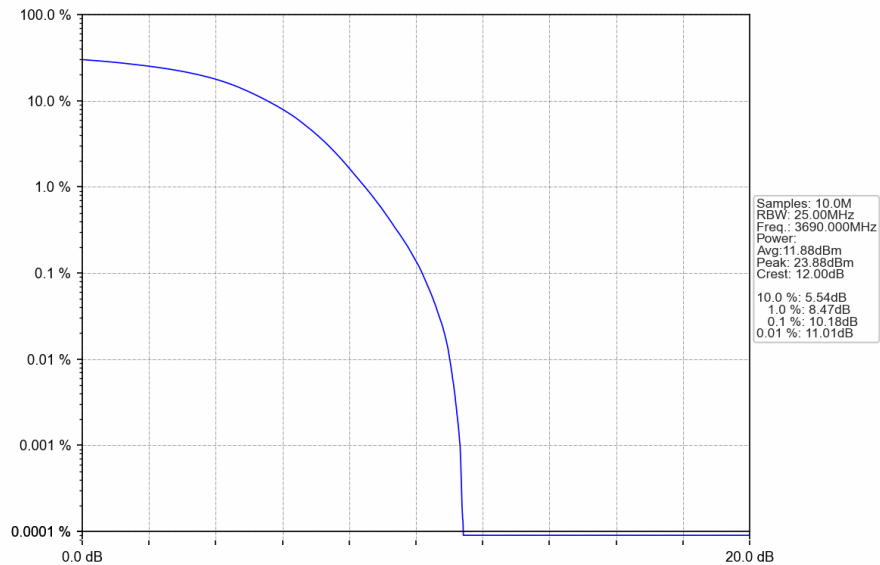
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n48\_30kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM 64 QAM\_3624.99MHz\_Outer\_Full

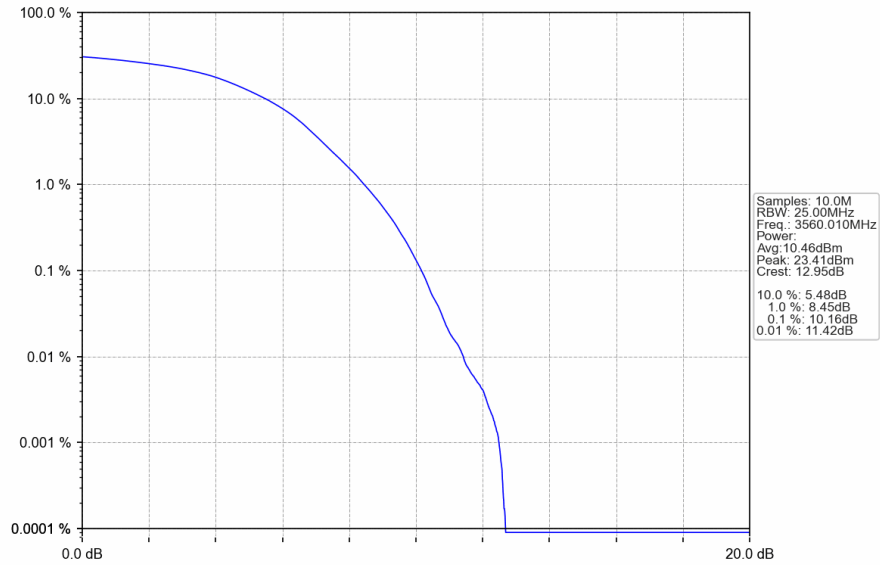


n48\_30kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM 64 QAM\_3690MHz\_Outer\_Full

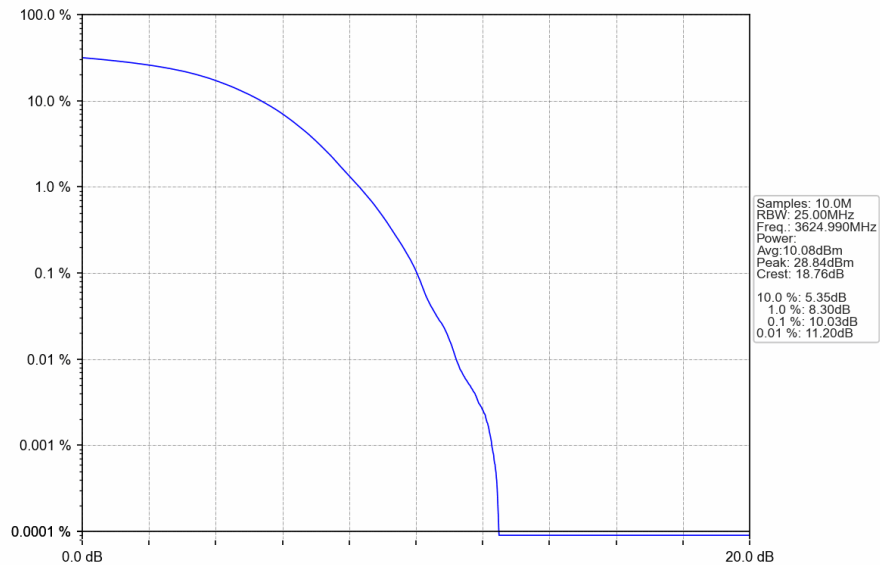




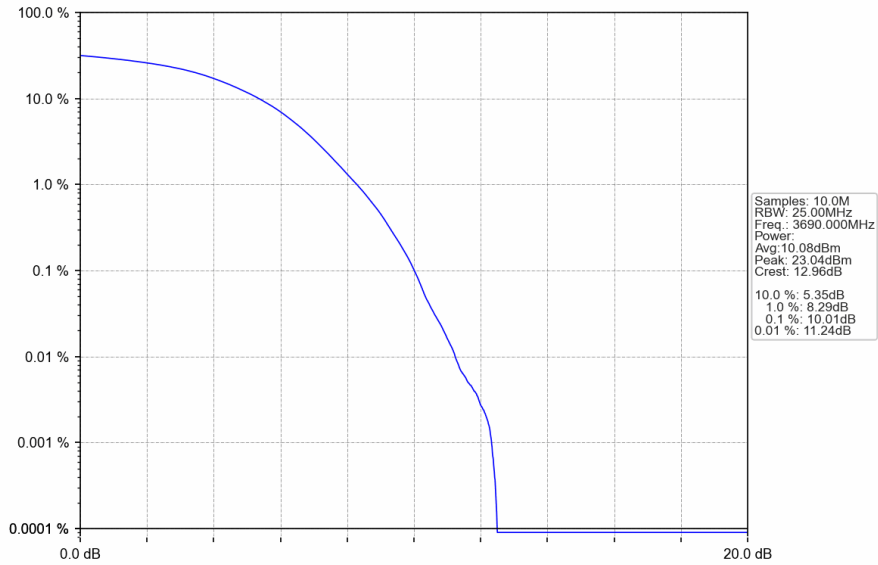
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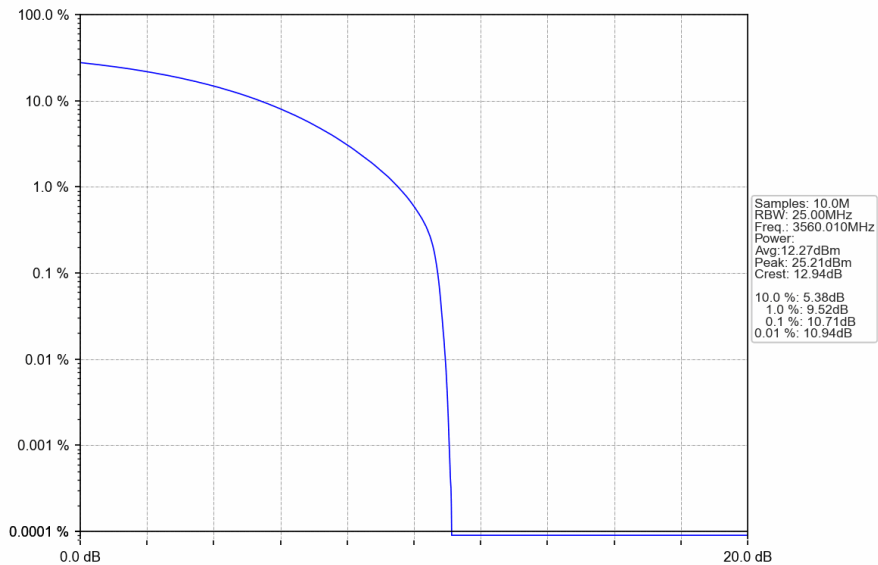
n48\_30kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM 256 QAM\_3624.99MHz\_Outer\_Full



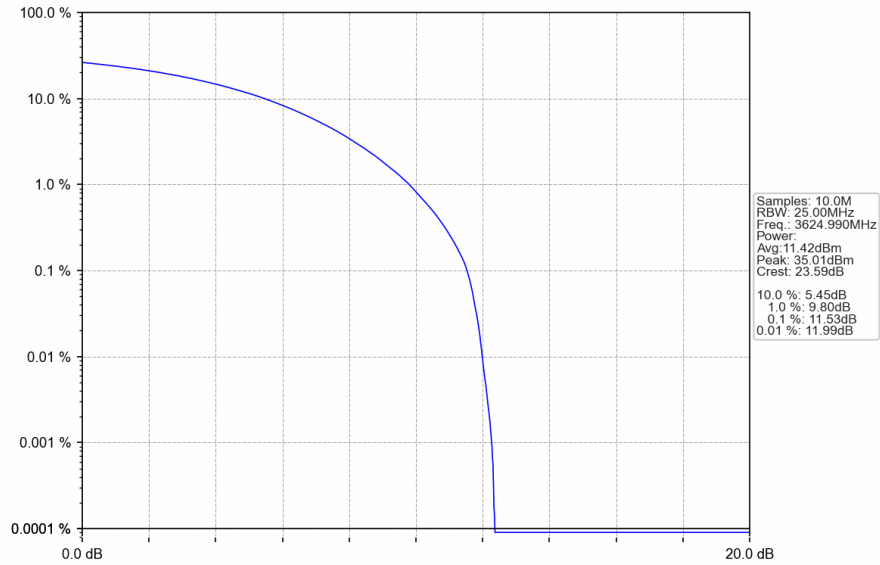
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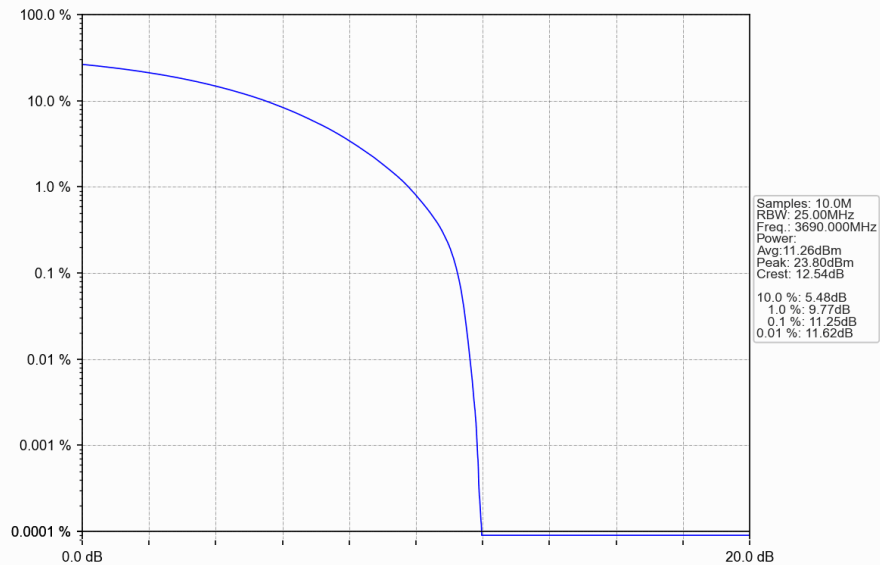
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n48\_30kHz\_SISO\_NTNV\_20MHz\_CP-OFDM QPSK\_3624.99MHz\_Outer\_Full

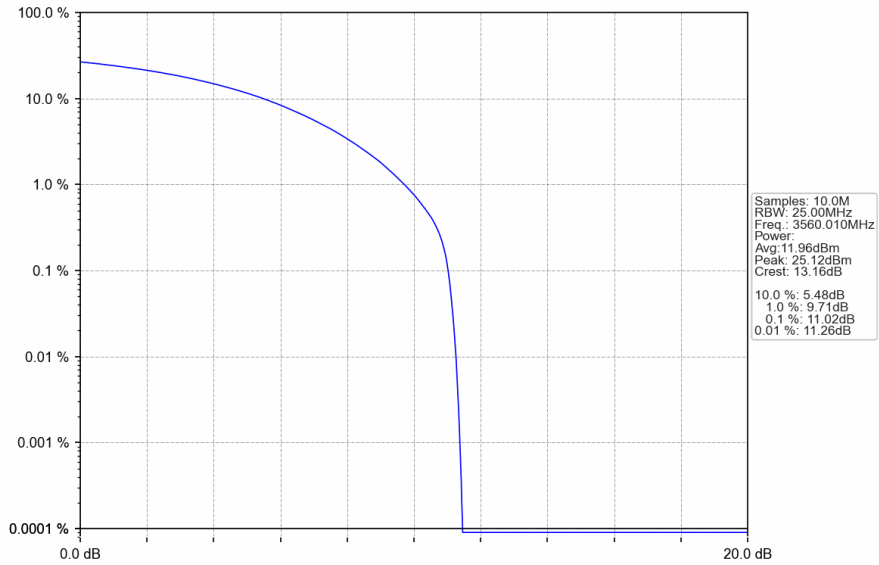


n48\_30kHz\_SISO\_NTNV\_20MHz\_CP-OFDM QPSK\_3690MHz\_Outer\_Full

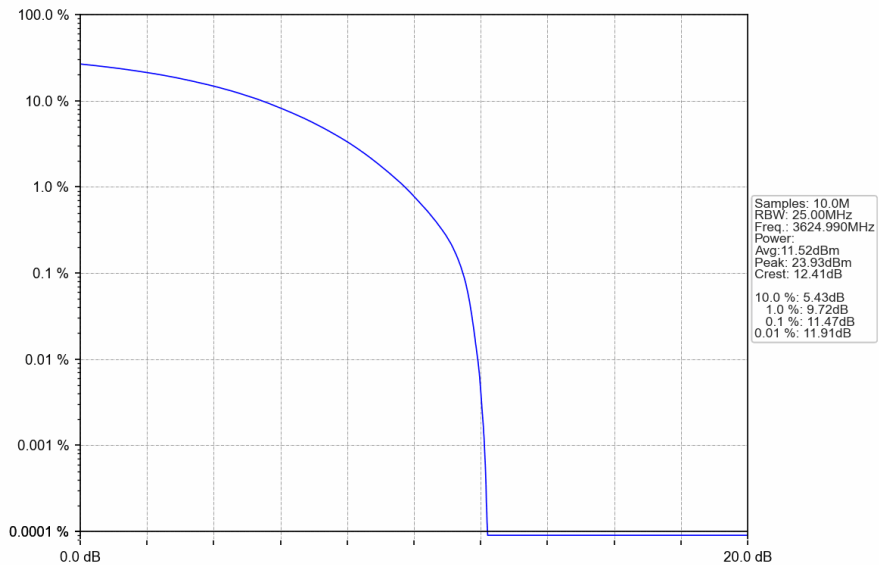




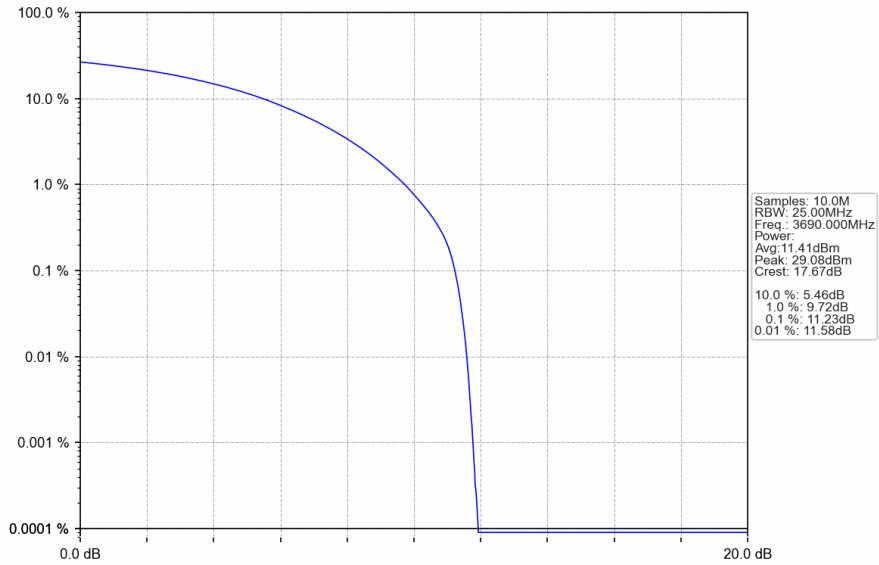
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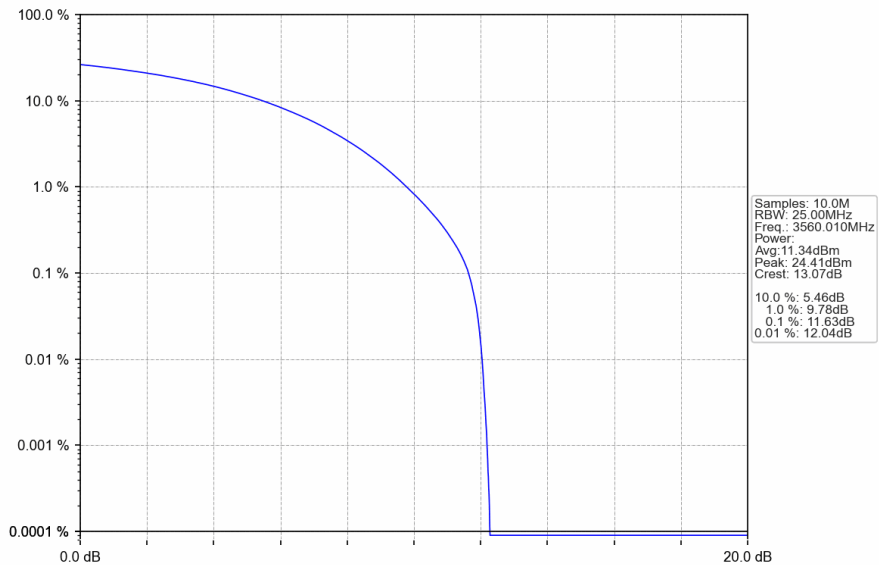
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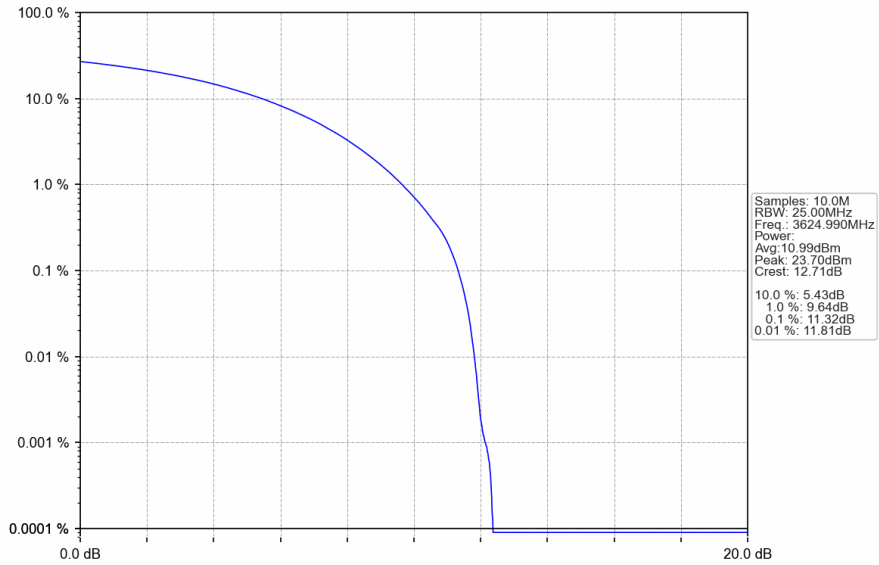
n48\_30kHz\_SISO\_NTNV\_20MHz\_CP-OFDM 16 QAM\_3690MHz\_Outer\_Full



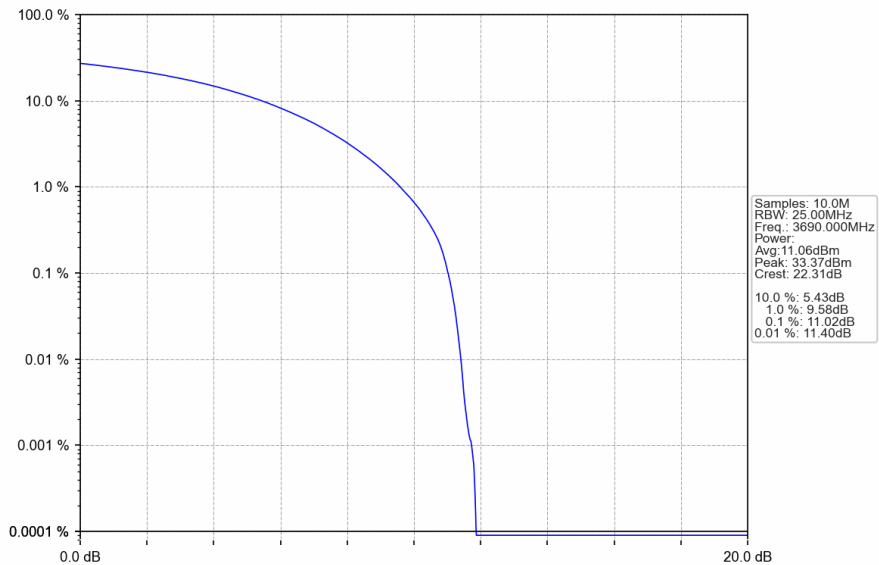
n48\_30kHz\_SISO\_NTNV\_20MHz\_CP-OFDM 64 QAM\_3560.01MHz\_Outer\_Full



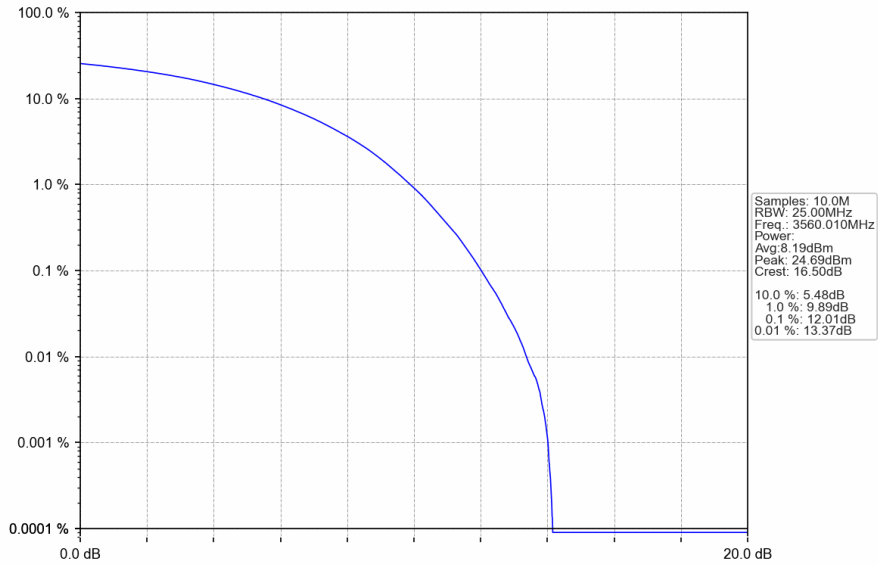
n48\_30kHz\_SISO\_NTNV\_20MHz\_CP-OFDM 64 QAM\_3624.99MHz\_Outer\_Full



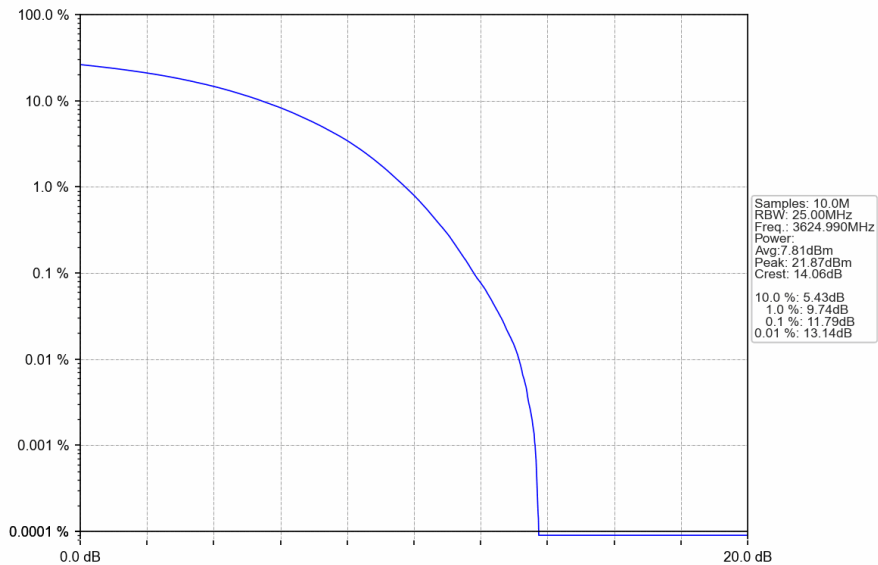
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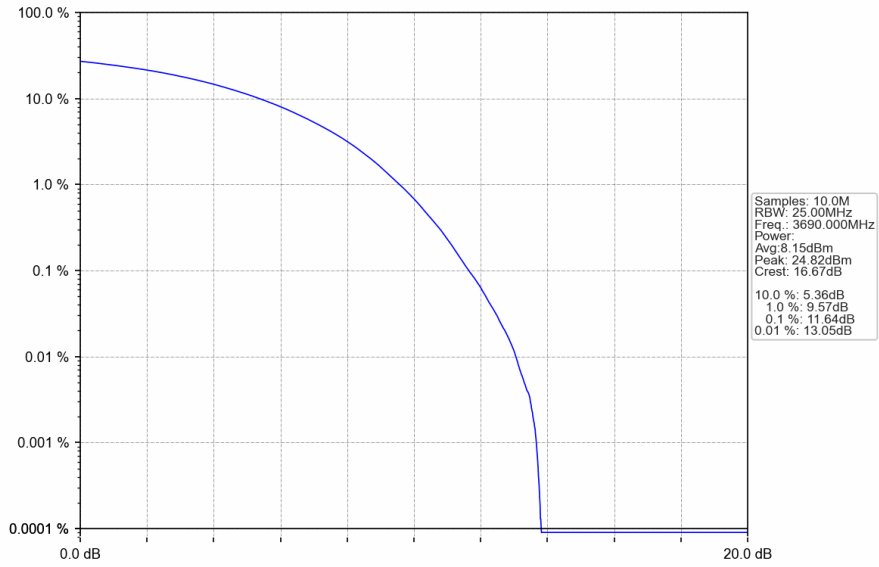
n48\_30kHz\_SISO\_NTNV\_20MHz\_CP-OFDM\_256\_QAM\_3560.01MHz\_Outer\_Full



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





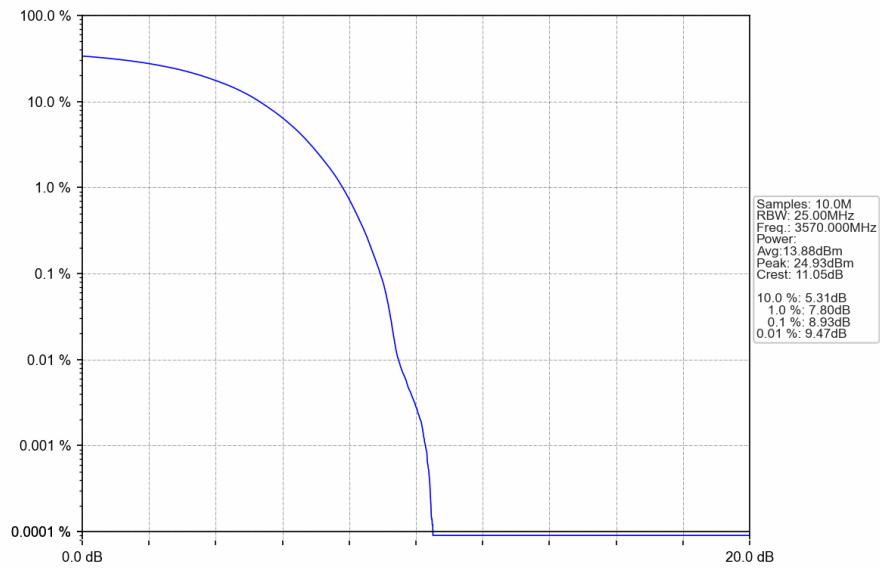
## 1.2 30k\_SISO\_40MHz\_NTNV

### 1.2.1 Test Result

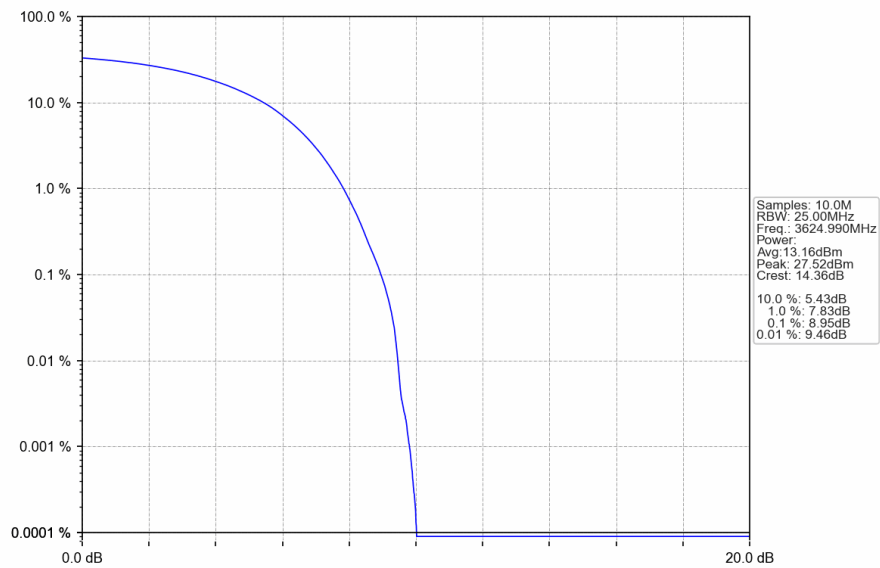
5G NR n48 SCS=30kHz SISO 40MHz NTNv							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3570	Outer_Full	8.93	/	/	<=13	Pass
	3624.99	Outer_Full	8.95	/	/	<=13	Pass
	3679.98	Outer_Full	8.70	/	/	<=13	Pass
DFT-s-OFDM QPSK	3570	Outer_Full	9.90	/	/	<=13	Pass
	3624.99	Outer_Full	9.53	/	/	<=13	Pass
	3679.98	Outer_Full	9.59	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3570	Outer_Full	10.40	/	/	<=13	Pass
	3624.99	Outer_Full	10.49	/	/	<=13	Pass
	3679.98	Outer_Full	10.37	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3570	Outer_Full	10.42	/	/	<=13	Pass
	3624.99	Outer_Full	10.37	/	/	<=13	Pass
	3679.98	Outer_Full	10.67	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3570	Outer_Full	10.69	/	/	<=13	Pass
	3624.99	Outer_Full	10.43	/	/	<=13	Pass
	3679.98	Outer_Full	10.39	/	/	<=13	Pass
CP-OFDM QPSK	3570	Outer_Full	11.16	/	/	<=13	Pass
	3624.99	Outer_Full	11.49	/	/	<=13	Pass
	3679.98	Outer_Full	11.42	/	/	<=13	Pass
CP-OFDM 16 QAM	3570	Outer_Full	11.23	/	/	<=13	Pass
	3624.99	Outer_Full	11.46	/	/	<=13	Pass
	3679.98	Outer_Full	11.32	/	/	<=13	Pass
CP-OFDM 64 QAM	3570	Outer_Full	11.98	/	/	<=13	Pass
	3624.99	Outer_Full	11.58	/	/	<=13	Pass
	3679.98	Outer_Full	11.40	/	/	<=13	Pass
CP-OFDM 256 QAM	3570	Outer_Full	11.38	/	/	<=13	Pass
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	3679.98	Outer_Full	11.64	/	/	<=13	Pass

### 1.2.2 Test Graph

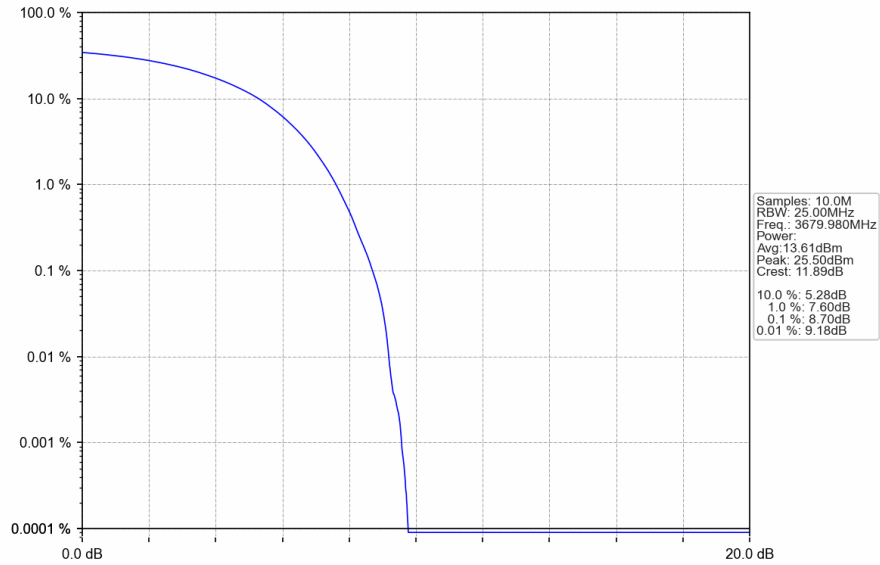
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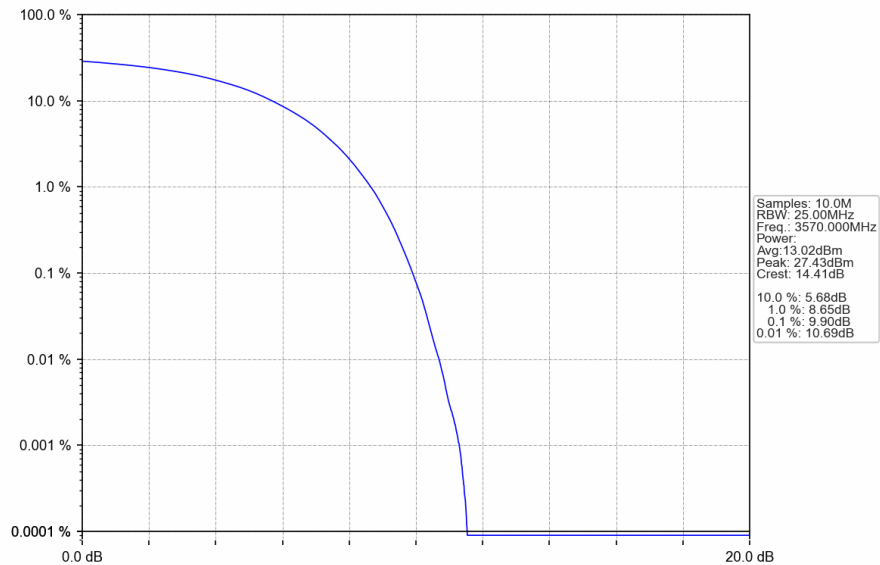
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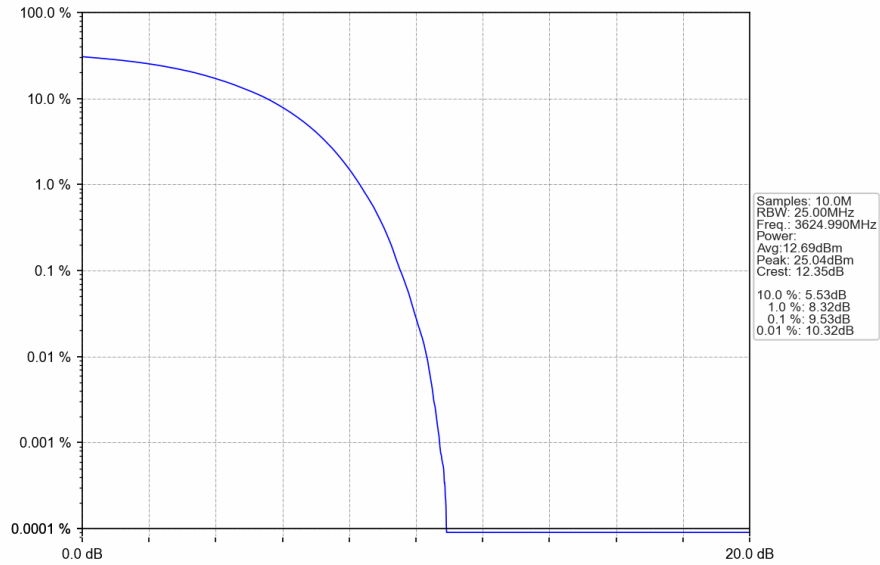
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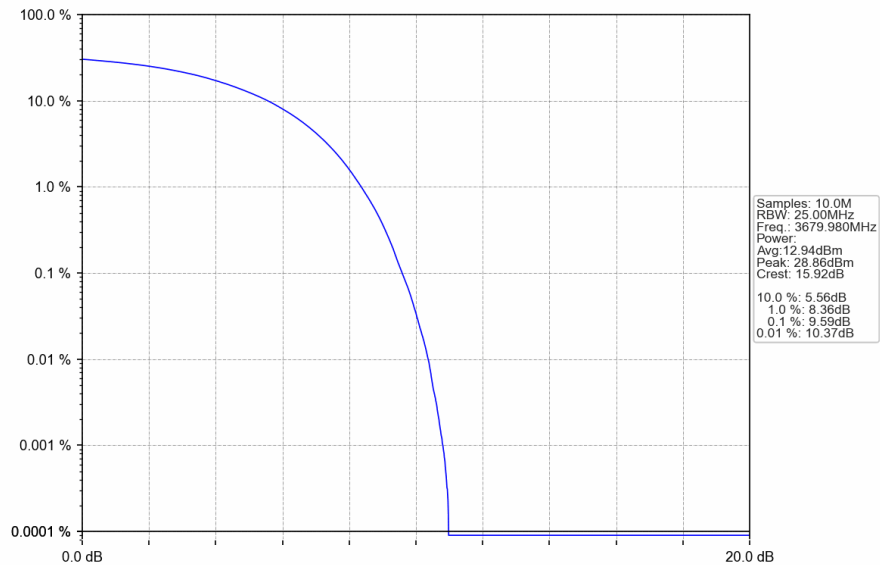
n48\_30kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM QPSK\_3570MHz\_Outer\_Full



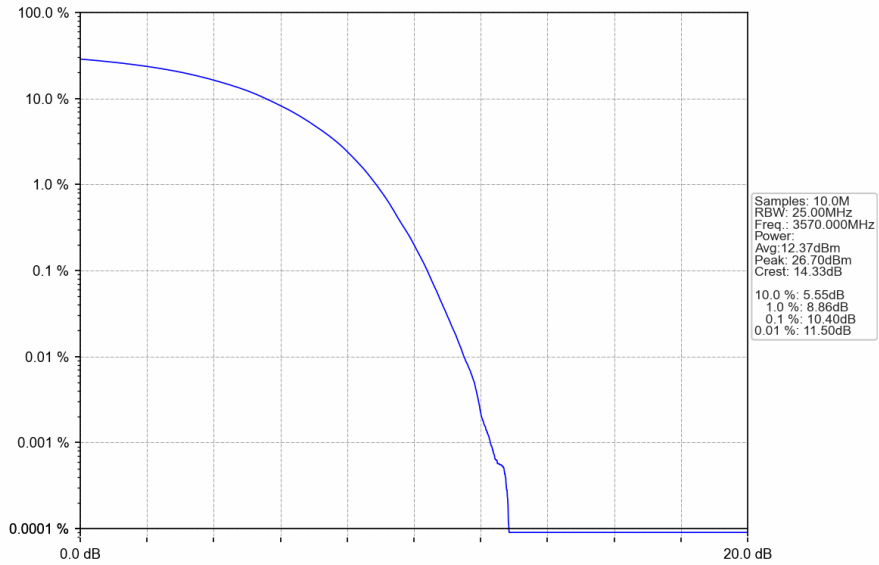
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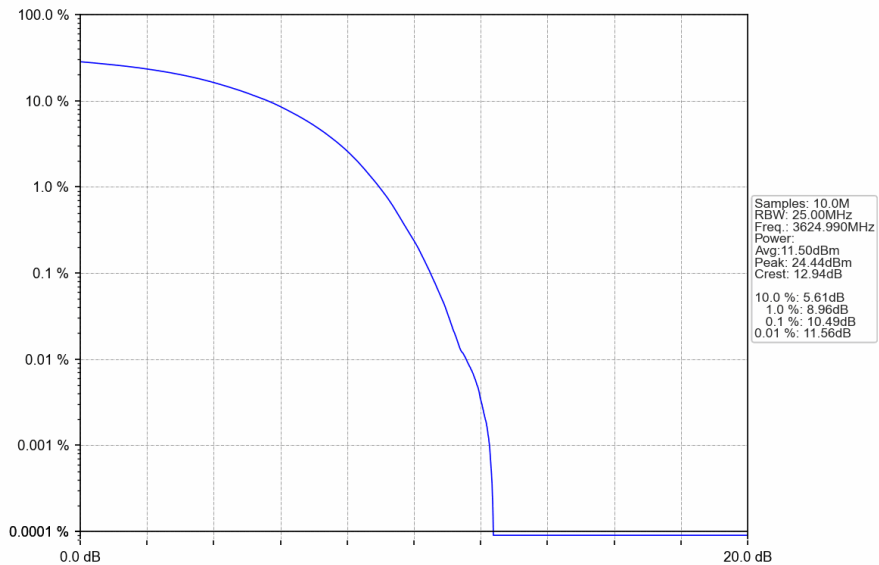
n48\_30kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM QPSK\_3679.98MHz\_Outer\_Full



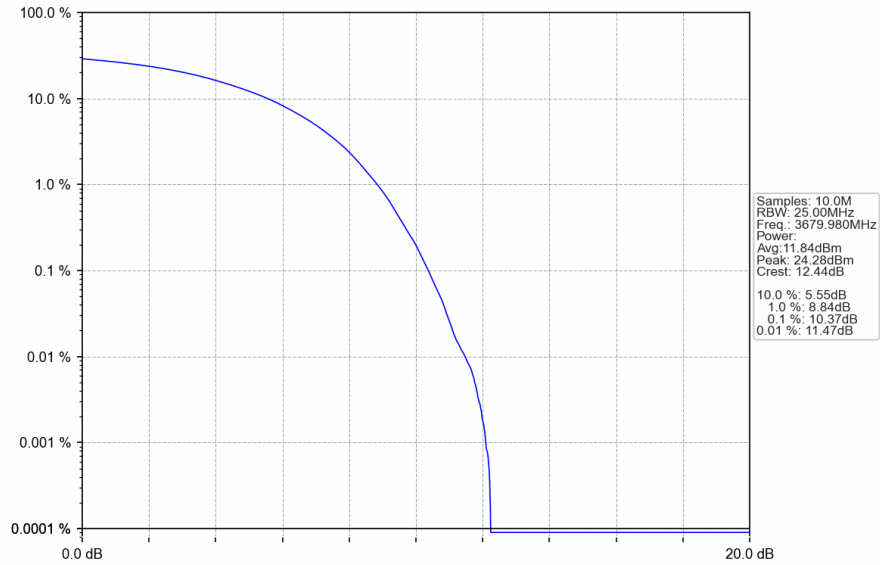
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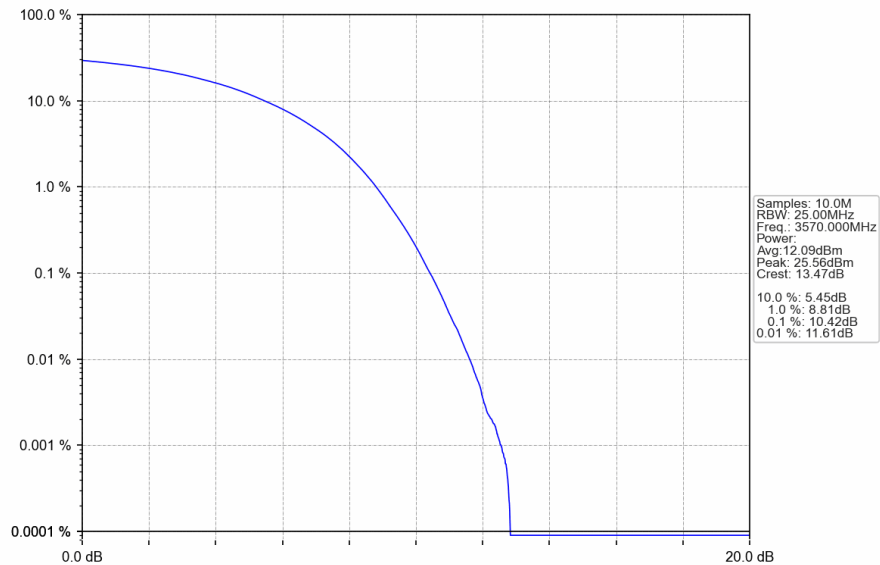
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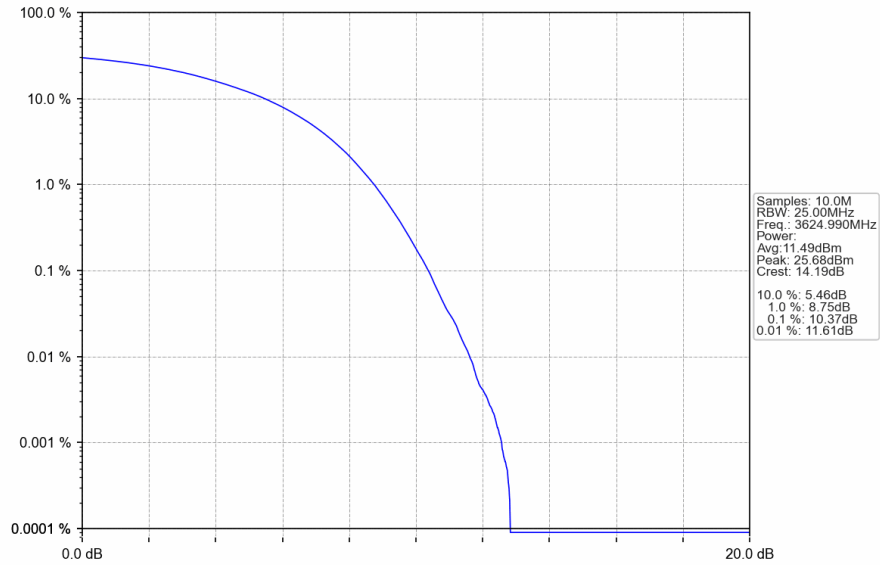
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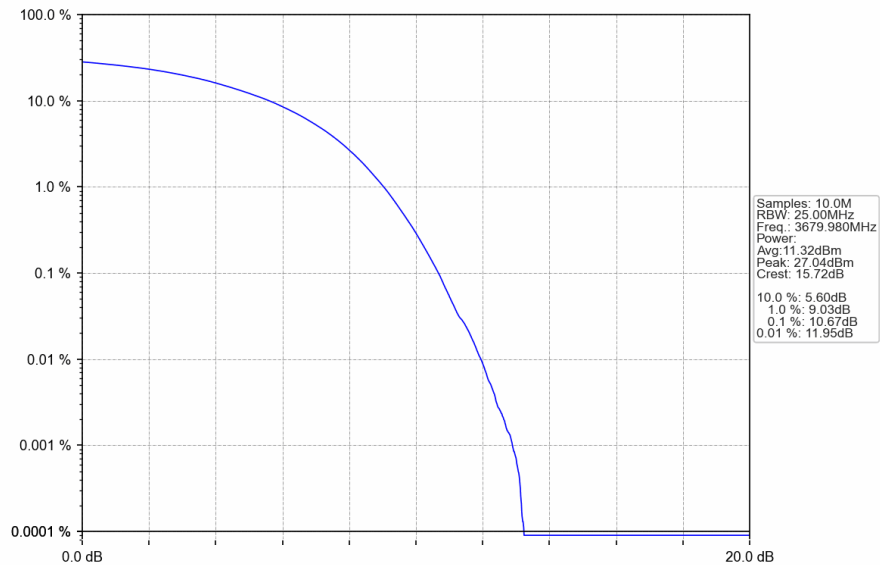
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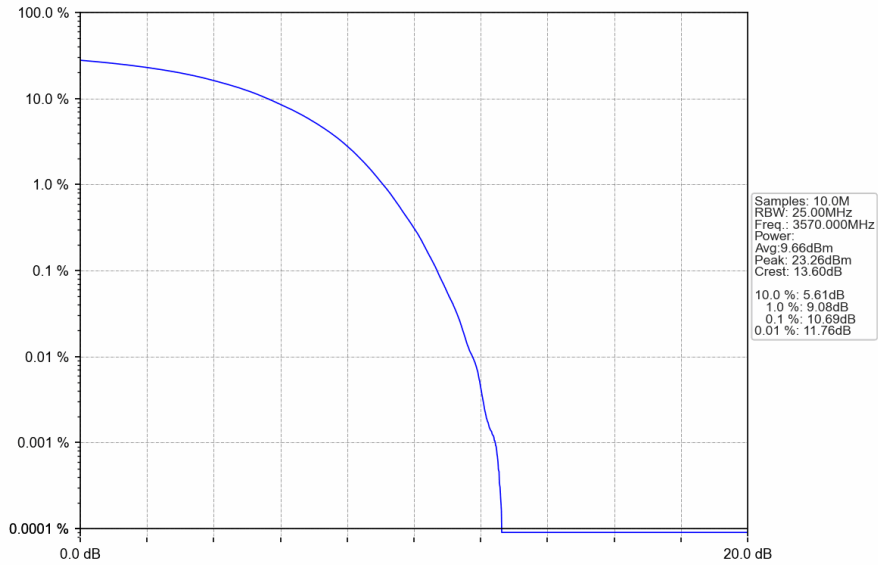
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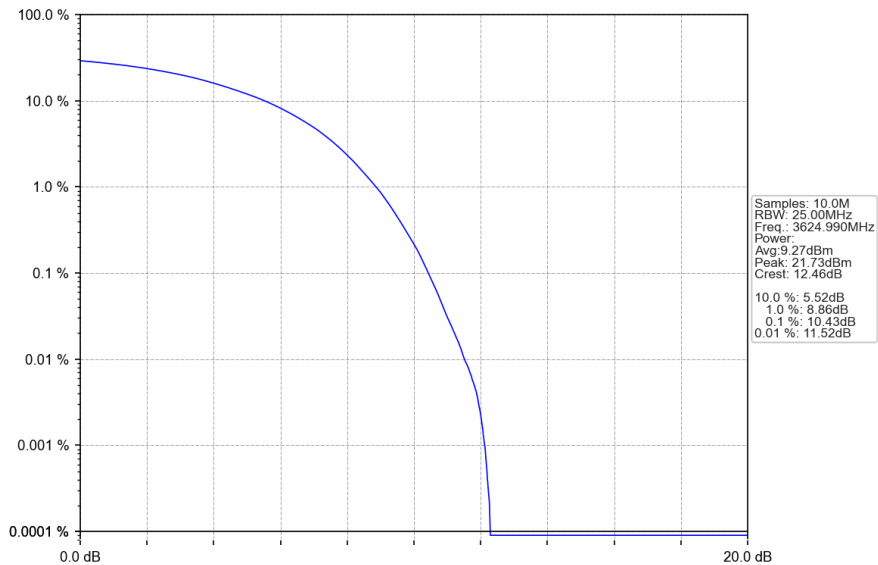
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n48\_30kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM 256 QAM\_3570MHz\_Outer\_Full

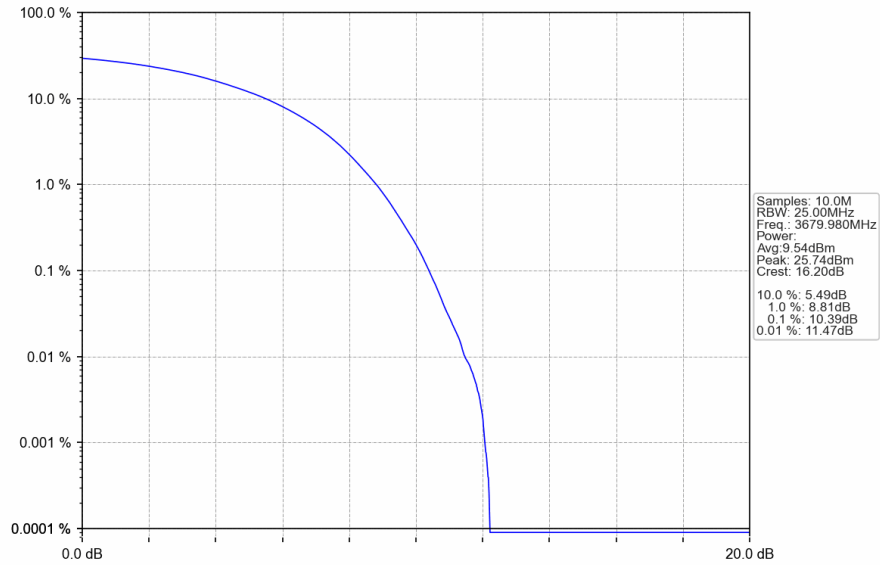


n48\_30kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM 256 QAM\_3624.99MHz\_Outer\_Full

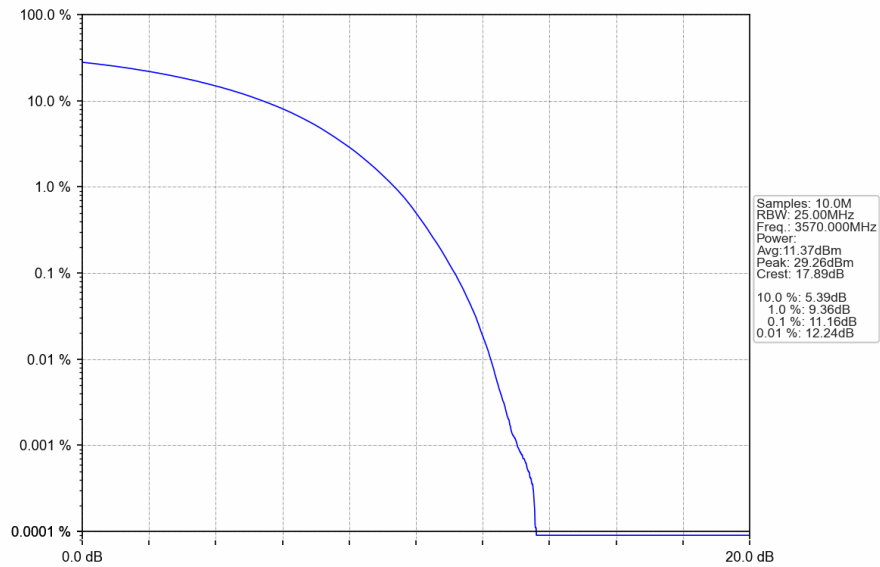




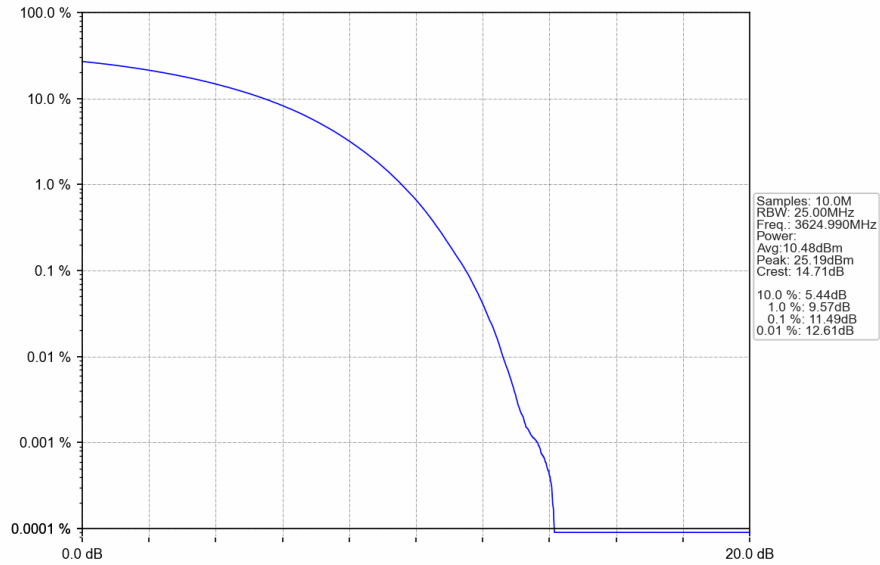
n48\_30kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM 256 QAM\_3679.98MHz\_Outer\_Full



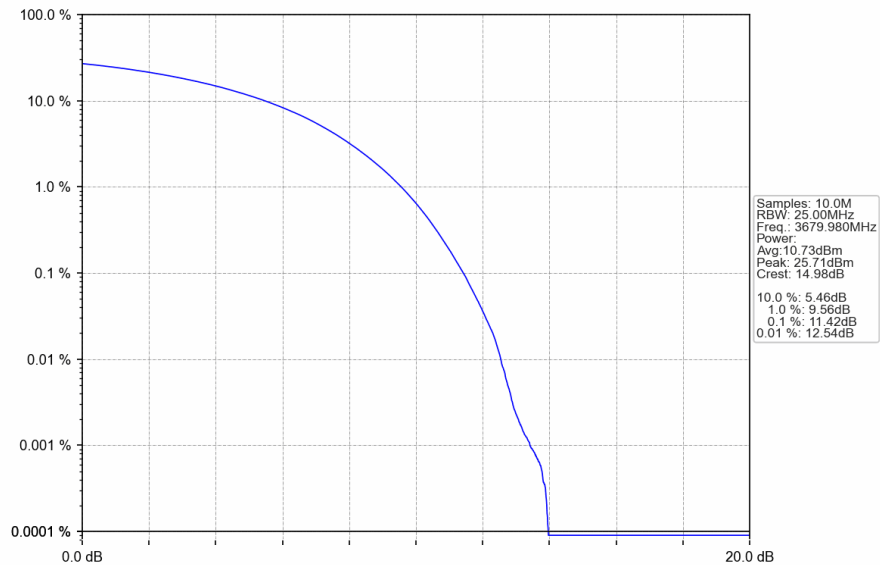
n48\_30kHz\_SISO\_NTNV\_40MHz\_CP-OFDM QPSK\_3570MHz\_Outer\_Full



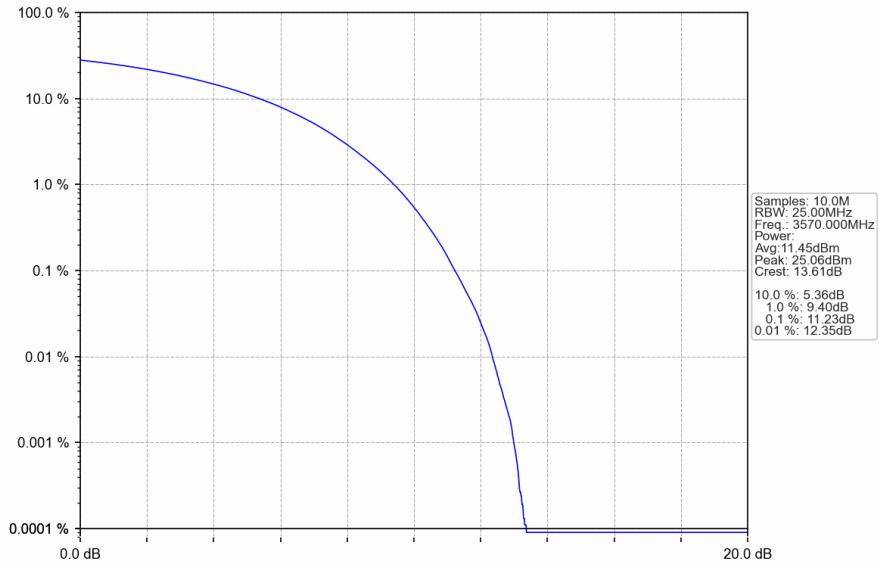
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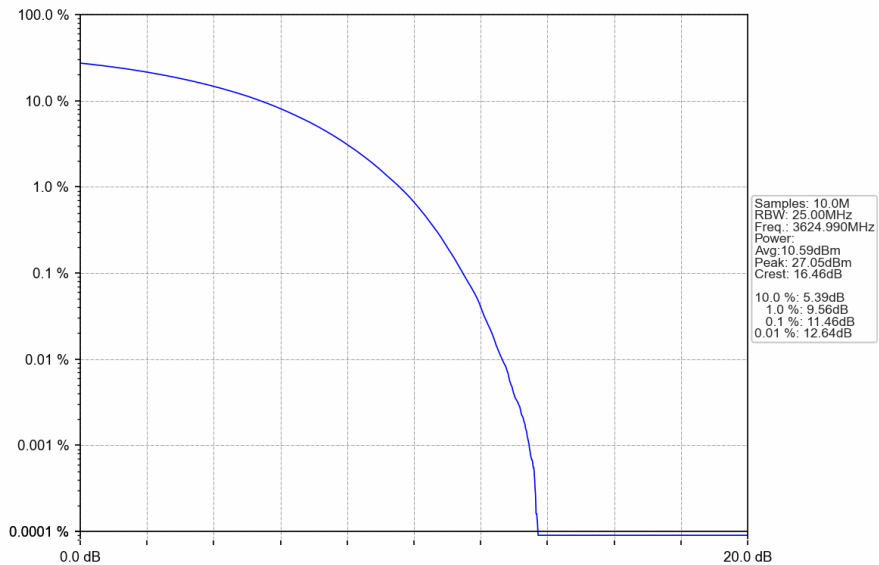
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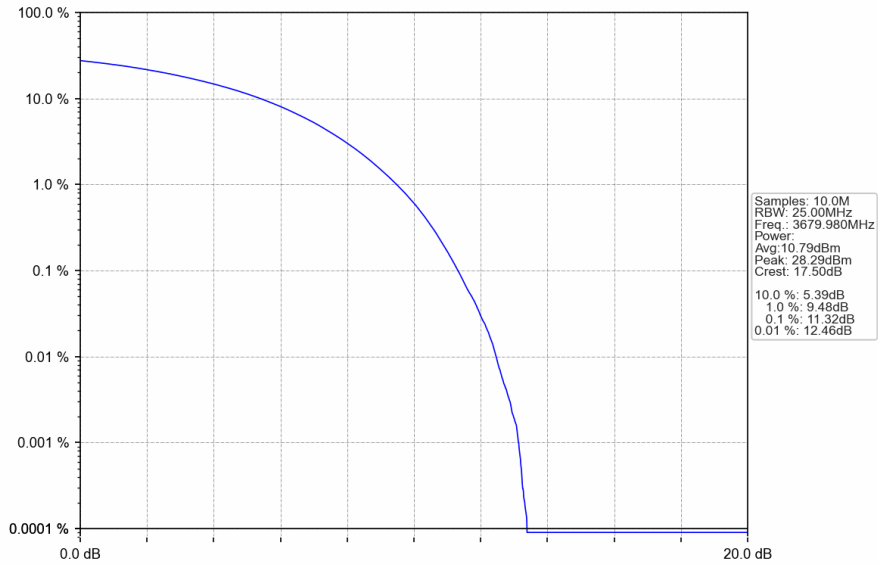
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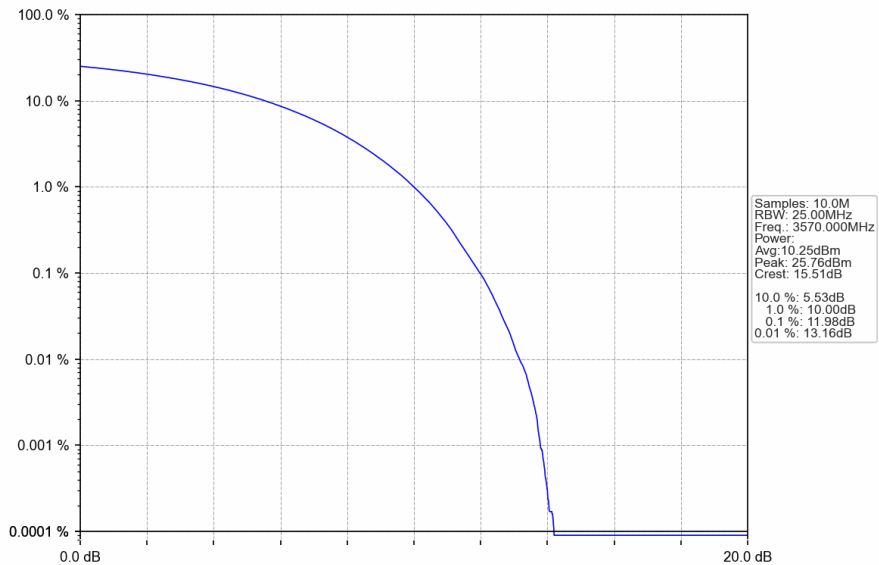
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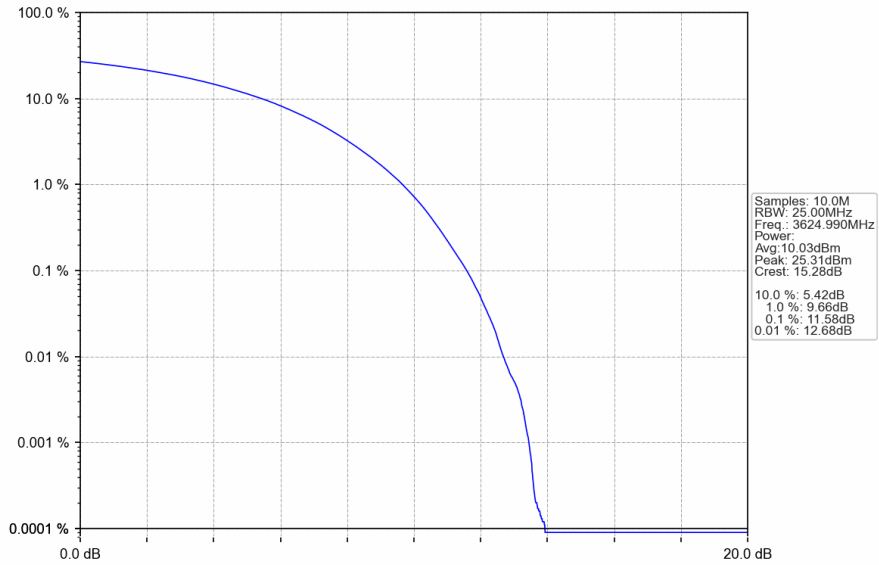
n48\_30kHz\_SISO\_NTNV\_40MHz\_CP-OFDM 16 QAM\_3679.98MHz\_Outer\_Full



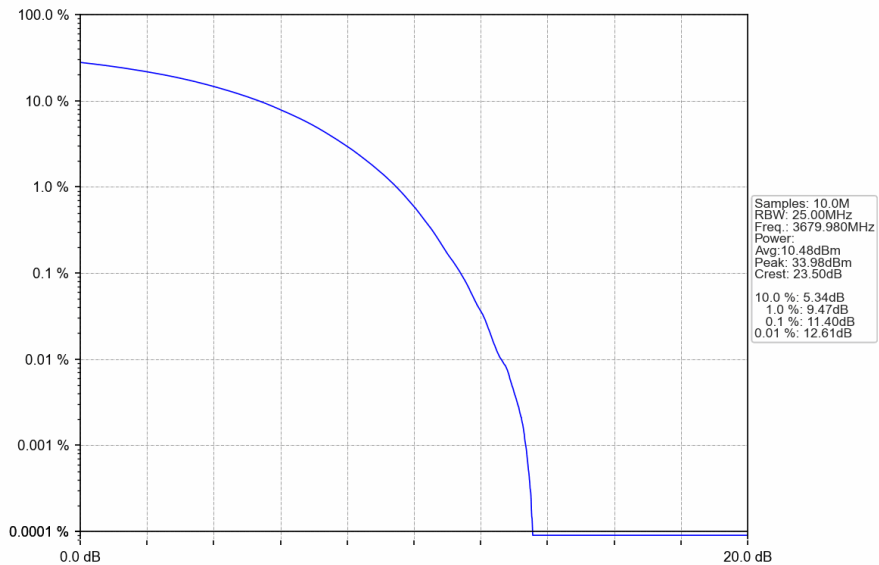
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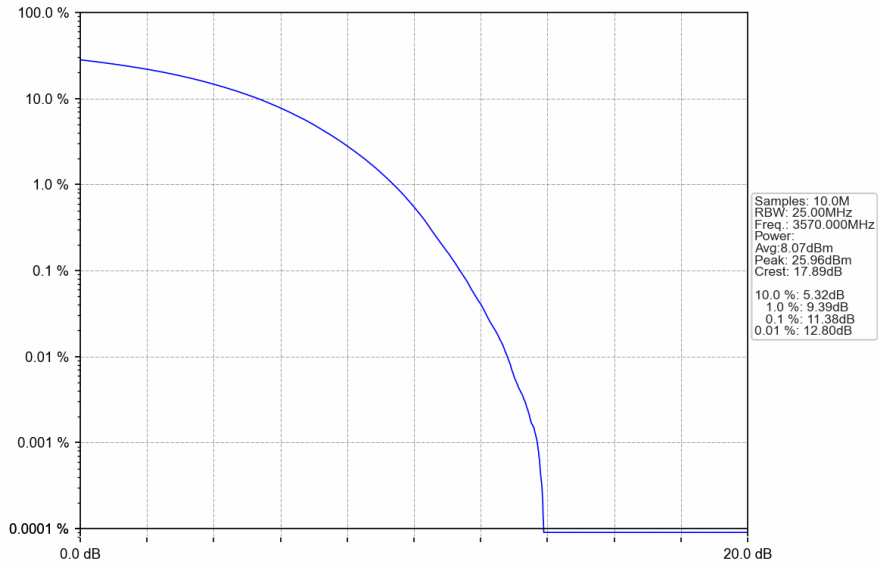
n48\_30kHz\_SISO\_NTNV\_40MHz\_CP-OFDM 64 QAM\_3624.99MHz\_Outer\_Full



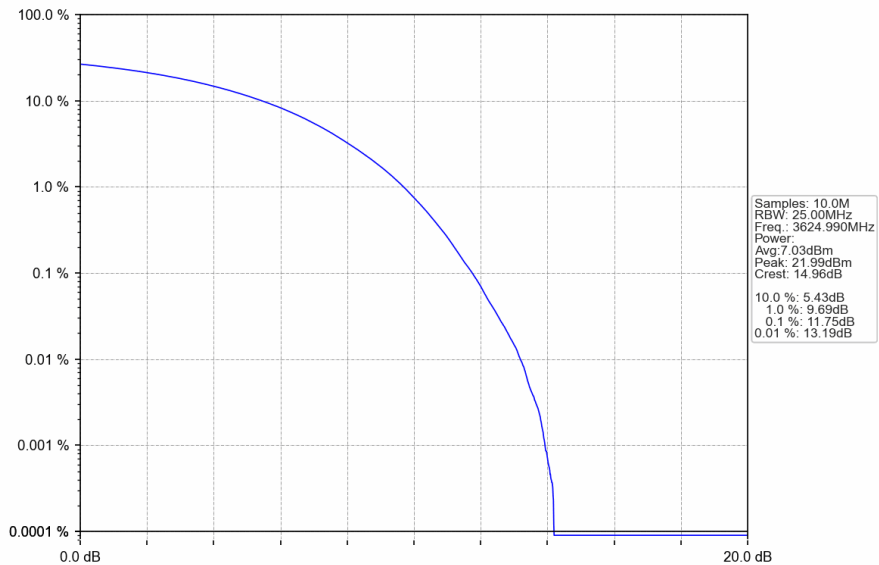
n48\_30kHz\_SISO\_NTNV\_40MHz\_CP-OFDM 64 QAM\_3679.98MHz\_Outer\_Full

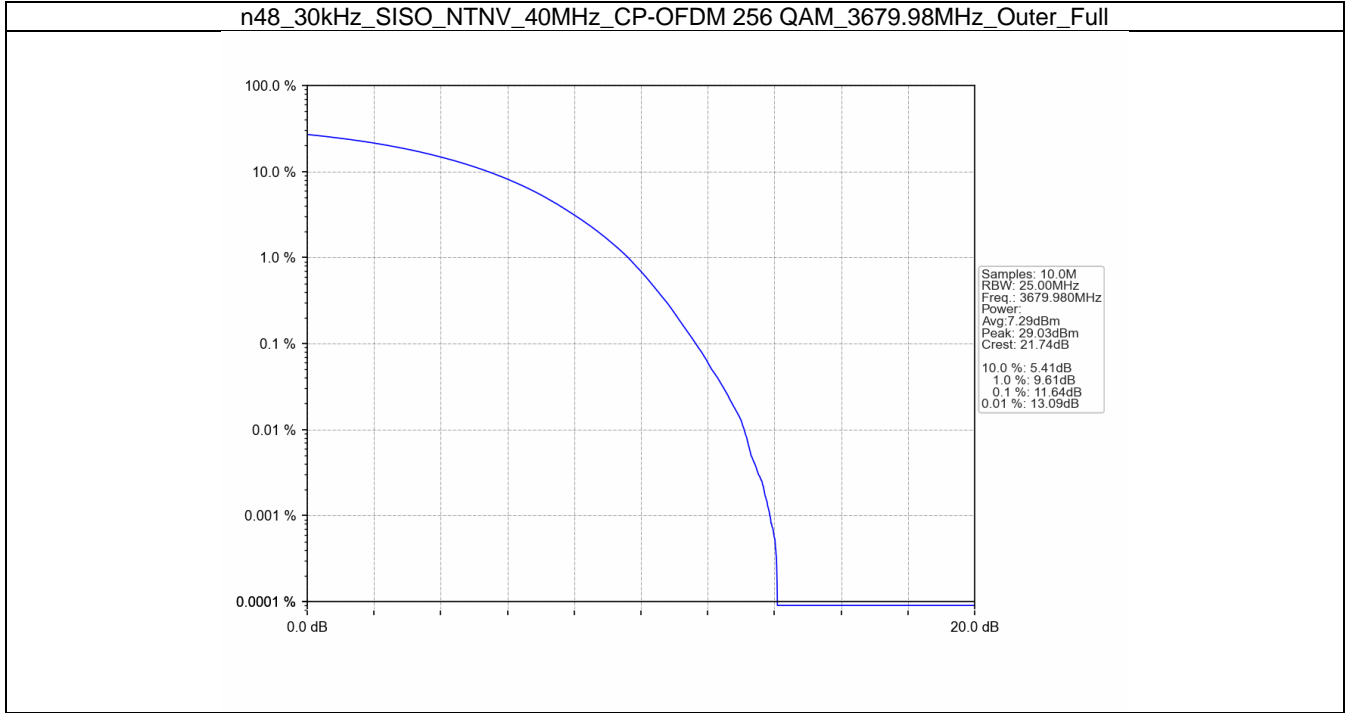


n48\_30kHz\_SISO\_NTNV\_40MHz\_CP-OFDM 256 QAM\_3570MHz\_Outer\_Full



n48\_30kHz\_SISO\_NTNV\_40MHz\_CP-OFDM 256 QAM\_3624.99MHz\_Outer\_Full





- End of the Report -