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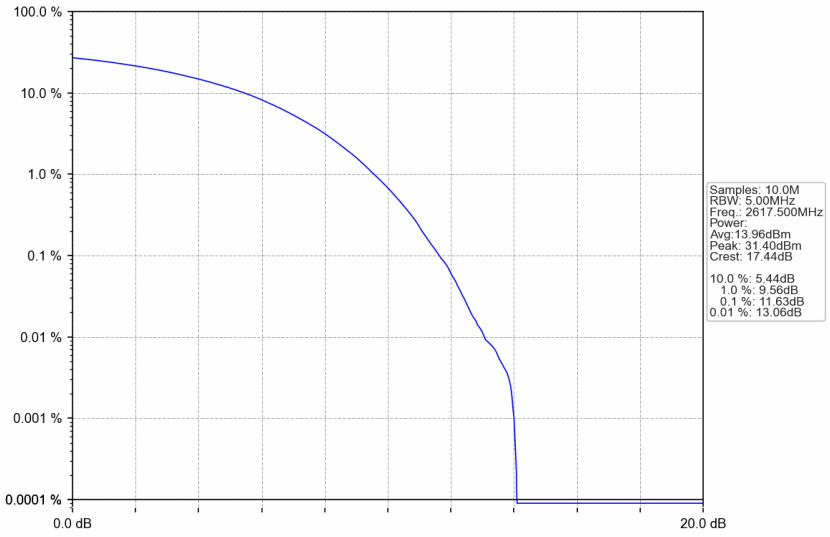

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5.2 15k_SISO_10MHz_NTNV

5.2.1 Test Result

5G NR n38 SCS=15kHz SISO 10MHz NTNV							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2575	Outer_Full	10.57	/	/	<=13	Pass
	2595	Outer_Full	10.35	/	/	<=13	Pass
	2615	Outer_Full	10.68	/	/	<=13	Pass
DFT-s-OFDM QPSK	2575	Outer_Full	12.06	/	/	<=13	Pass
	2595	Outer_Full	11.70	/	/	<=13	Pass
	2615	Outer_Full	12.18	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	2575	Outer_Full	12.47	/	/	<=13	Pass
	2595	Outer_Full	12.48	/	/	<=13	Pass
	2615	Outer_Full	12.35	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	2575	Outer_Full	12.47	/	/	<=13	Pass
	2595	Outer_Full	12.91	/	/	<=13	Pass
	2615	Outer_Full	12.51	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	2575	Outer_Full	12.69	/	/	<=13	Pass
	2595	Outer_Full	12.91	/	/	<=13	Pass
	2615	Outer_Full	12.98	/	/	<=13	Pass
CP-OFDM QPSK	2575	Outer_Full	12.22	/	/	<=13	Pass
	2595	Outer_Full	11.93	/	/	<=13	Pass
	2615	Outer_Full	12.09	/	/	<=13	Pass
CP-OFDM 16 QAM	2575	Outer_Full	12.10	/	/	<=13	Pass
	2595	Outer_Full	11.96	/	/	<=13	Pass
	2615	Outer_Full	12.21	/	/	<=13	Pass
CP-OFDM 64 QAM	2575	Outer_Full	12.17	/	/	<=13	Pass
	2595	Outer_Full	12.16	/	/	<=13	Pass
	2615	Outer_Full	11.86	/	/	<=13	Pass
CP-OFDM 256 QAM	2575	Outer_Full	12.81	/	/	<=13	Pass
	2595	Outer_Full	11.67	/	/	<=13	Pass
	2615	Outer_Full	11.95	/	/	<=13	Pass

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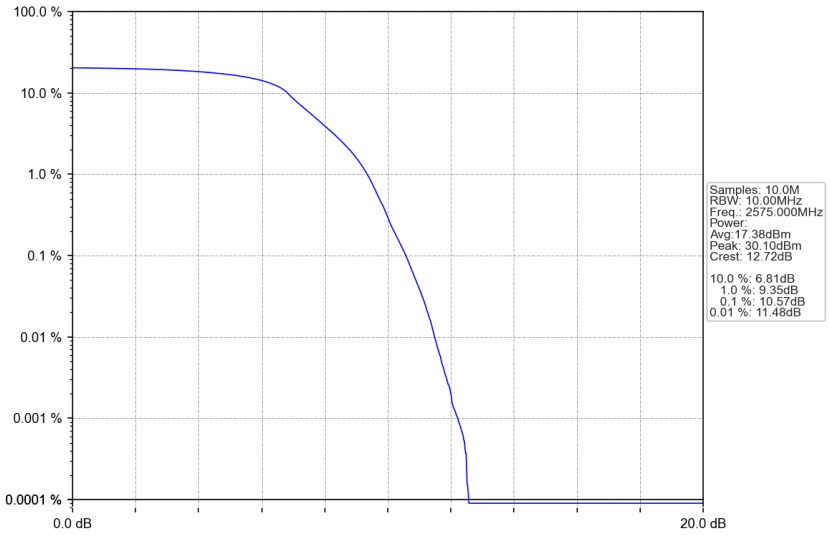
5.2.2 Test Graph

n38_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_2575MHz_Outer_Full



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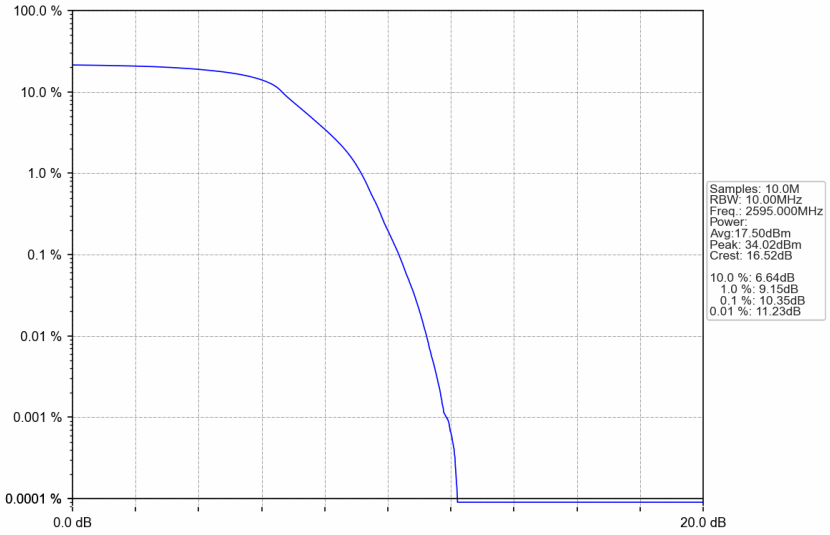

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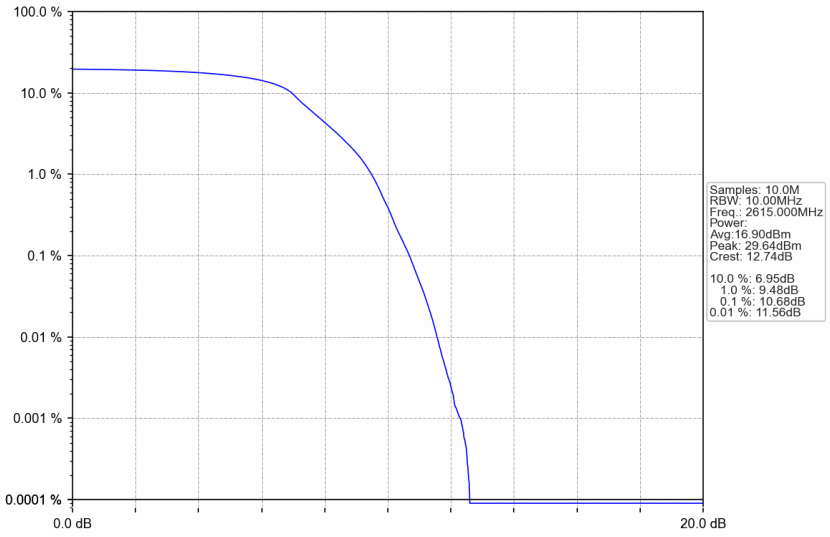
n38_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_2615MHz_Outer_Full



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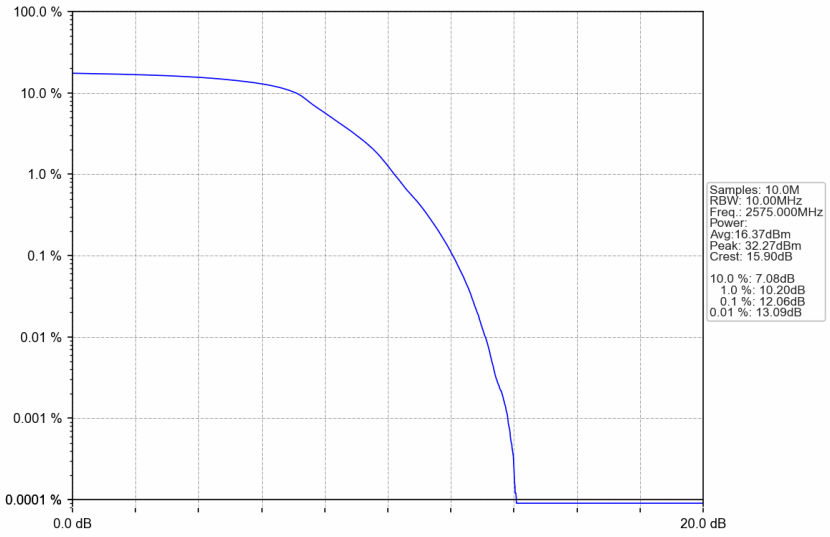

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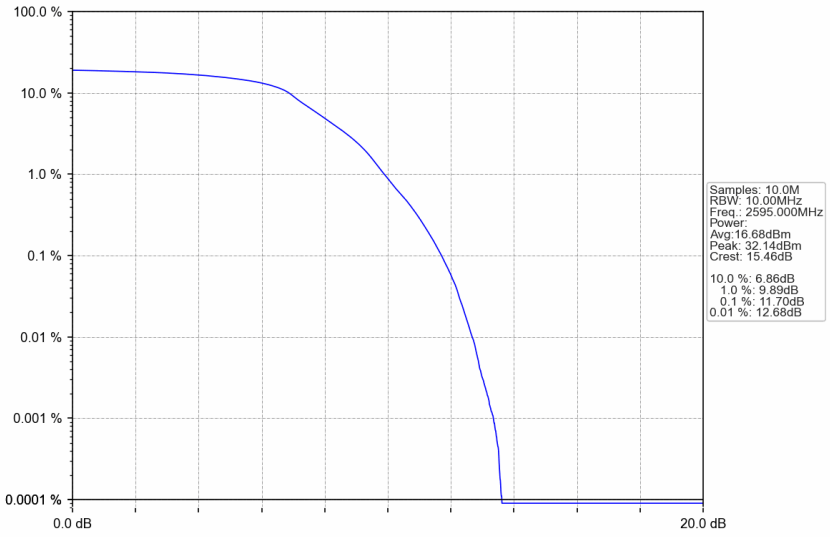
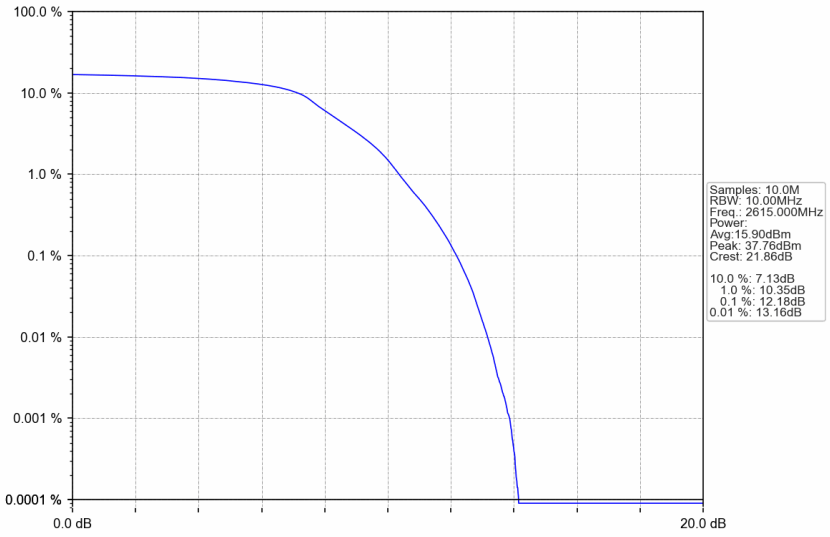
n38_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_2595MHz_Outer_Full



n38_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_2615MHz_Outer_Full



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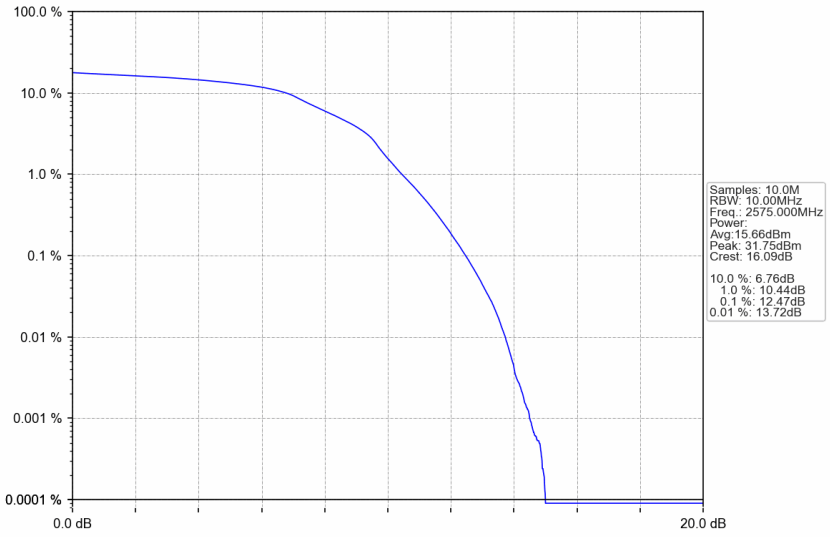

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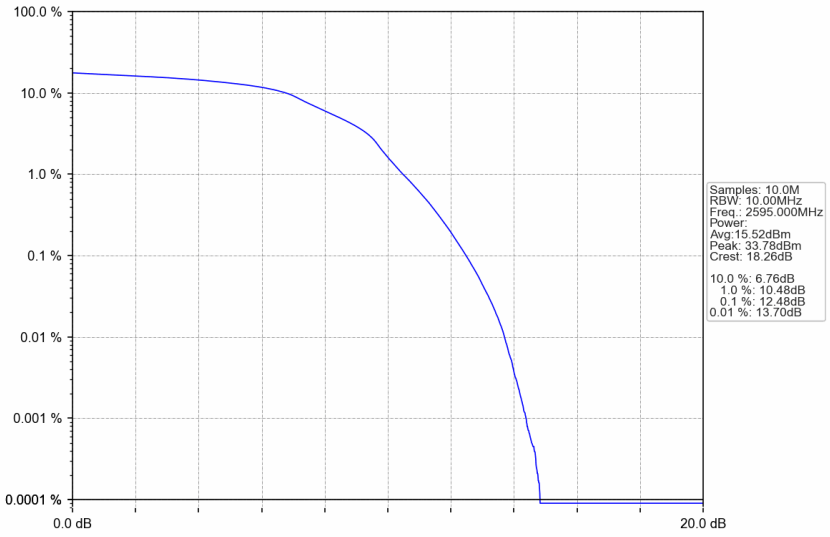

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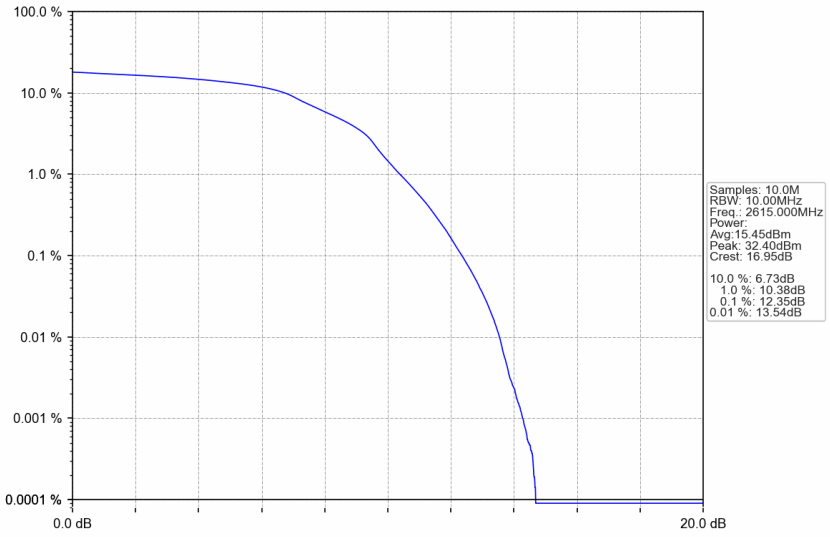

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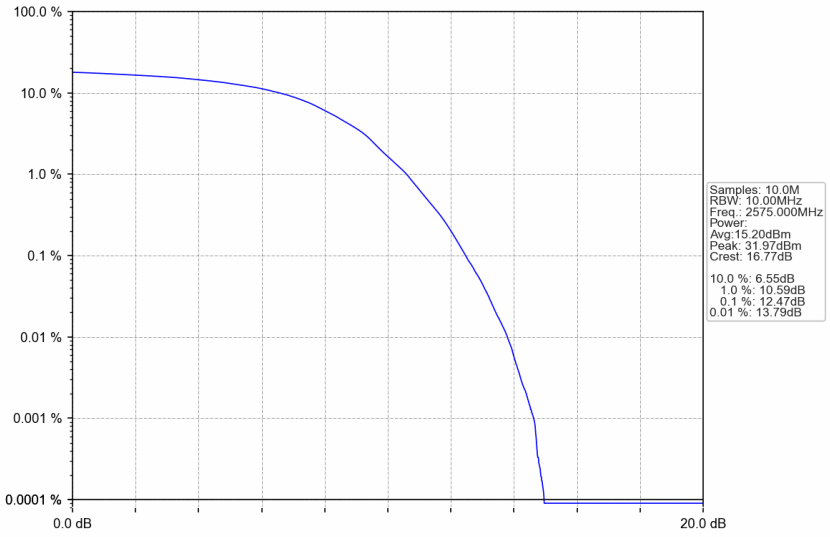

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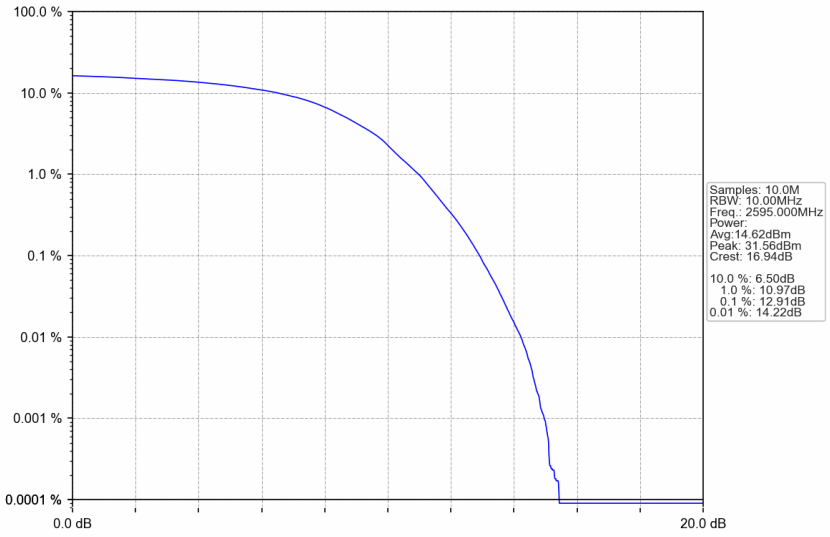
n38_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 64 QAM_2595MHz_Outer_Full



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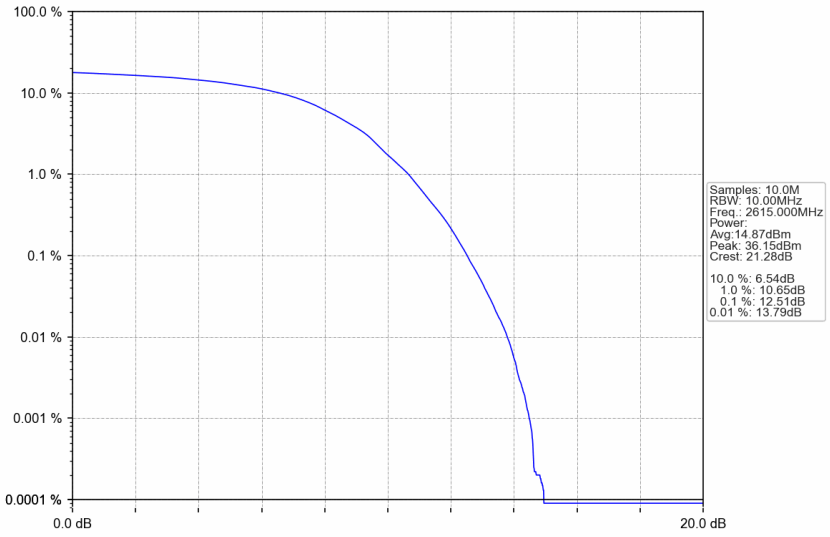

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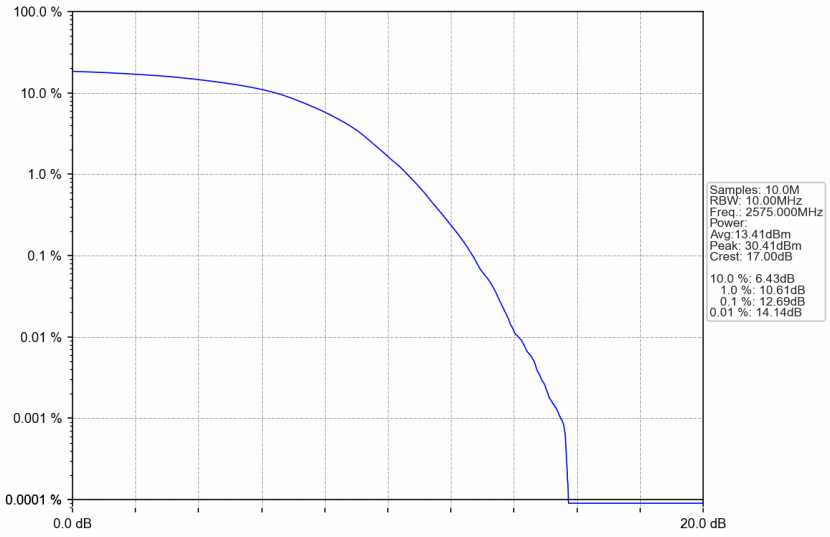

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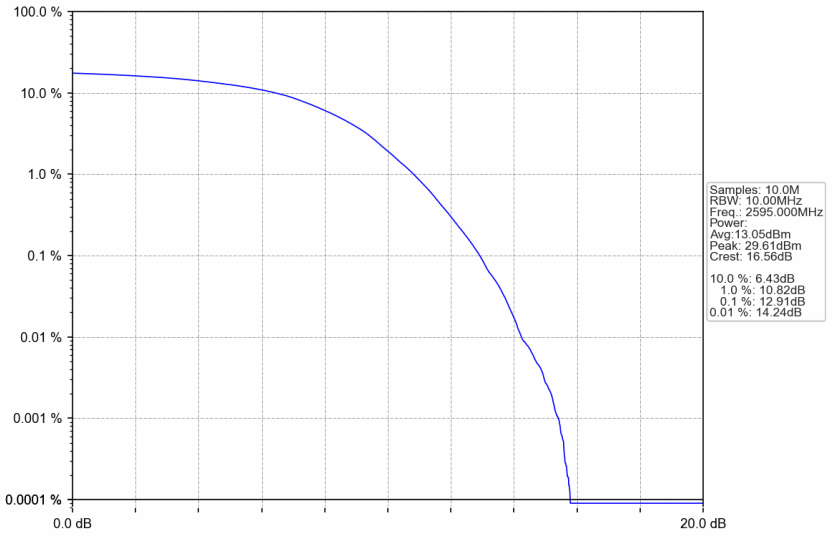

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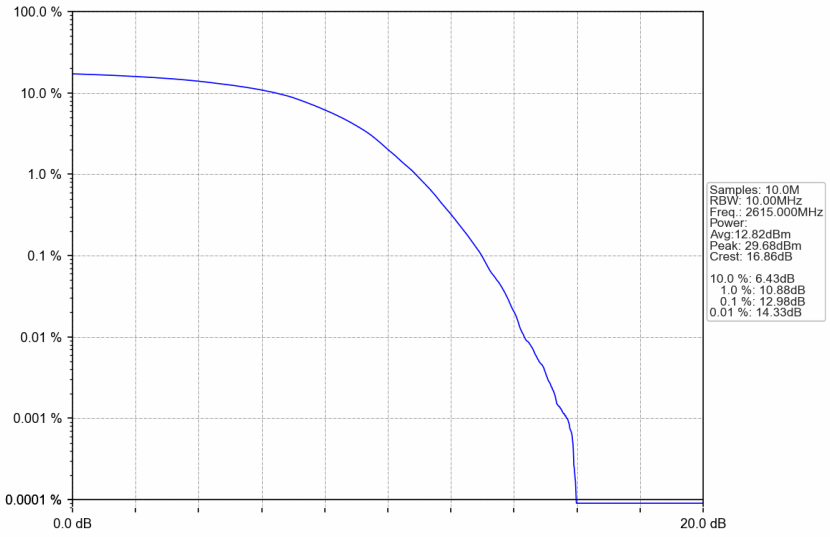

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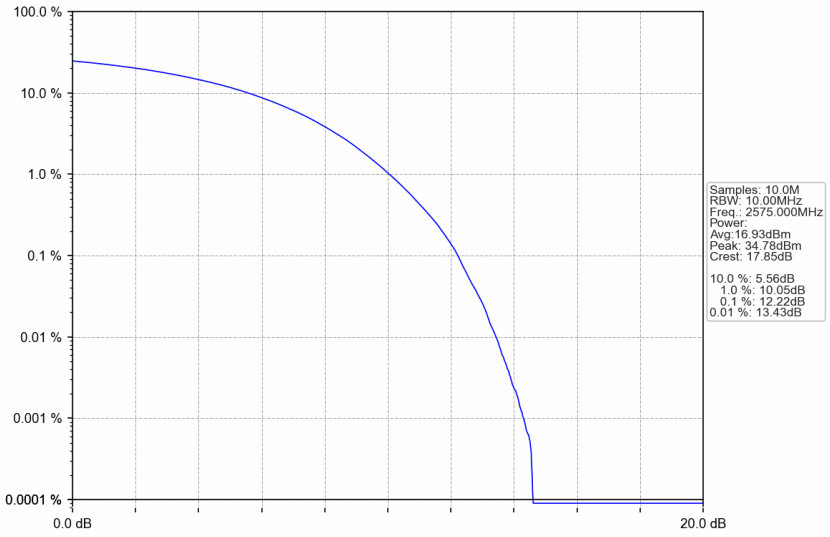

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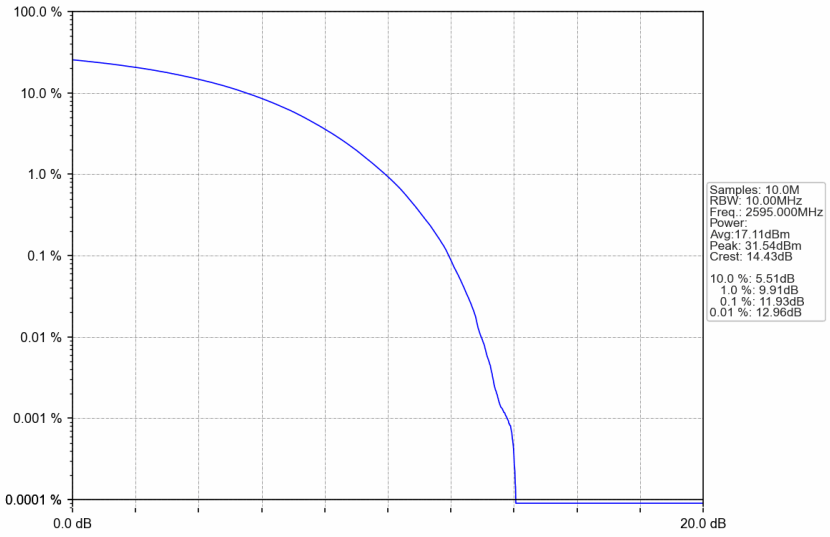
n38_15kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_2595MHz_Outer_Full



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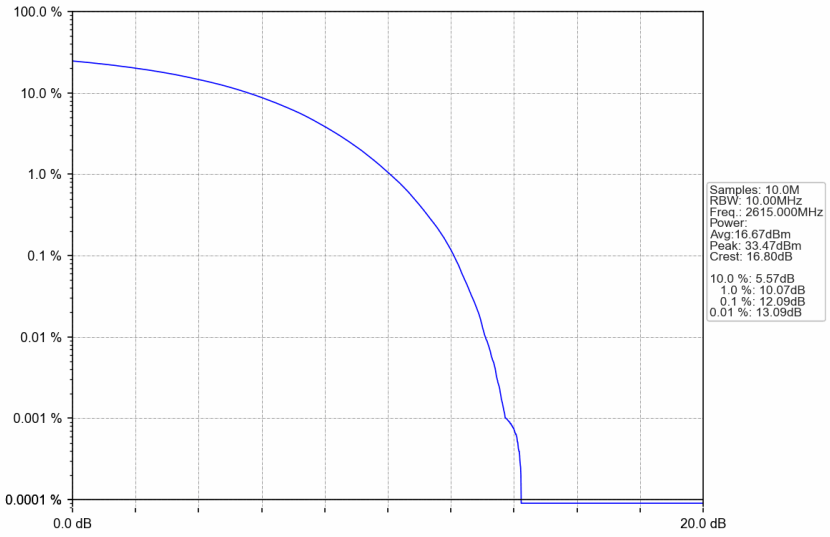

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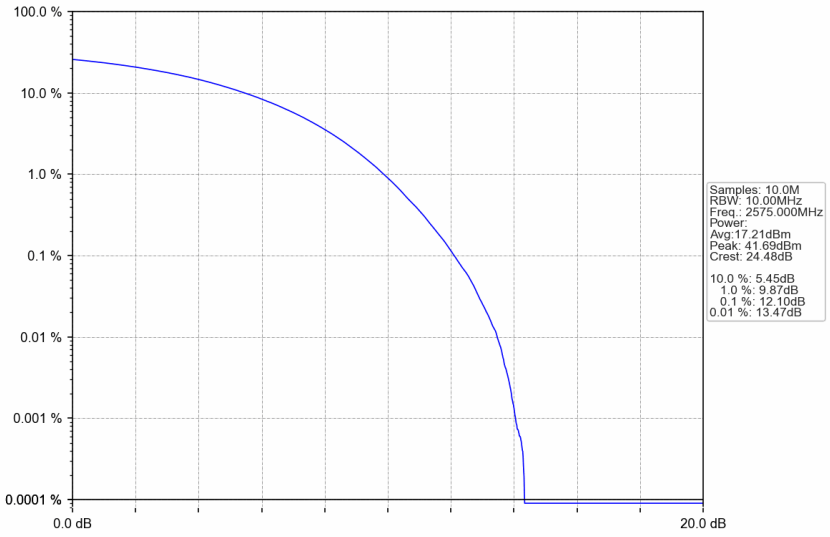

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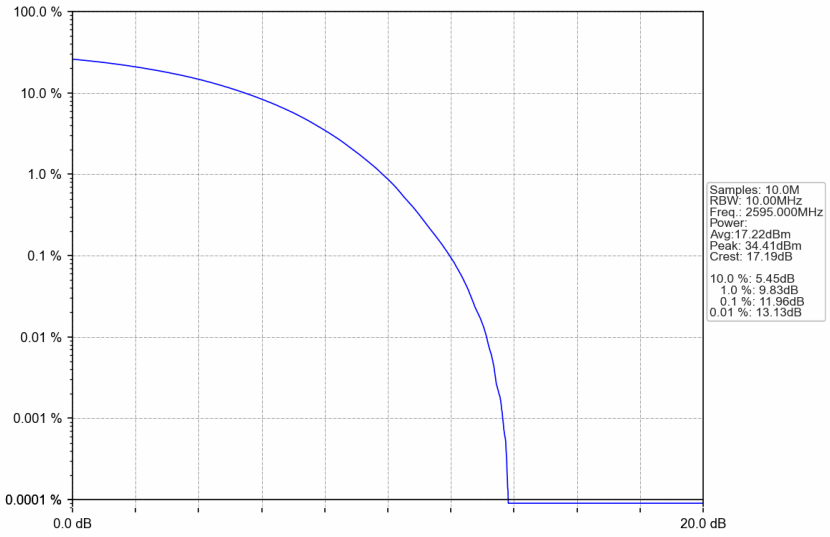

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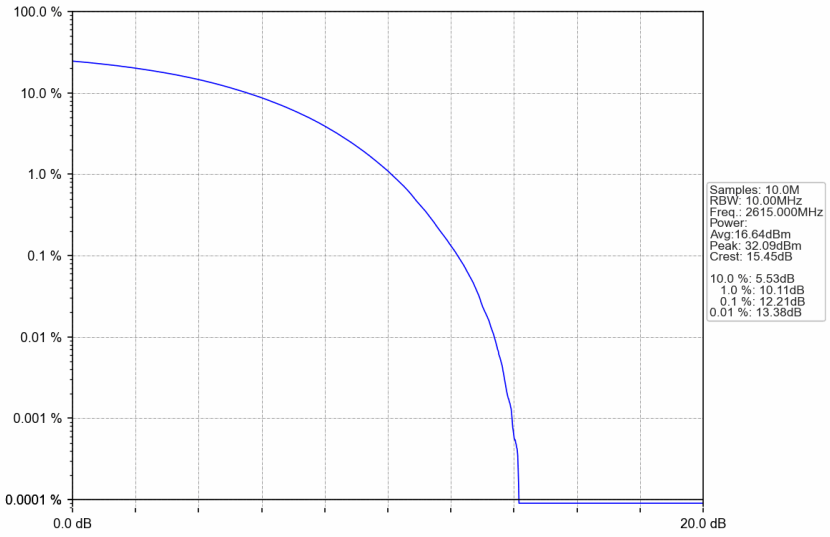

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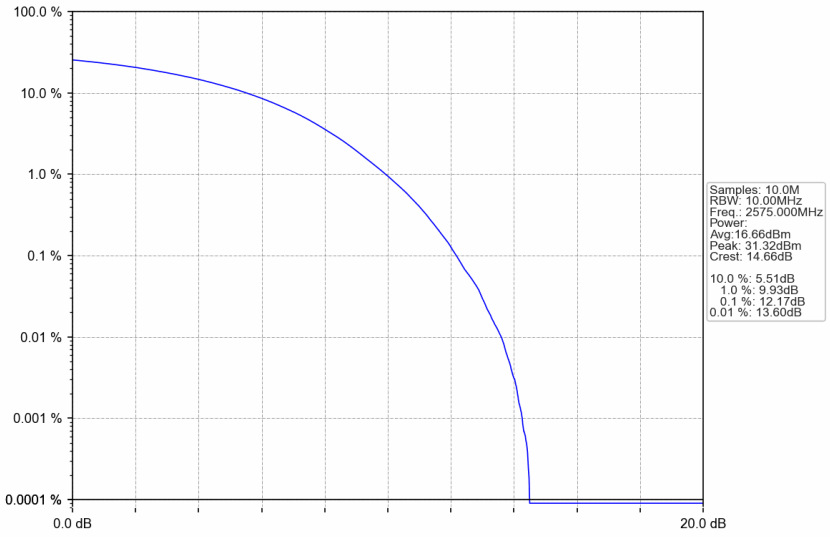

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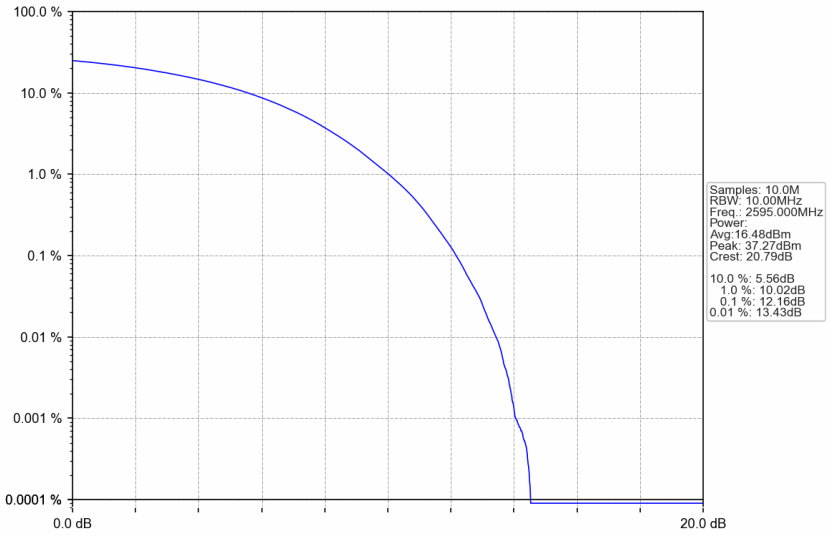
n38_15kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_2595MHz_Outer_Full



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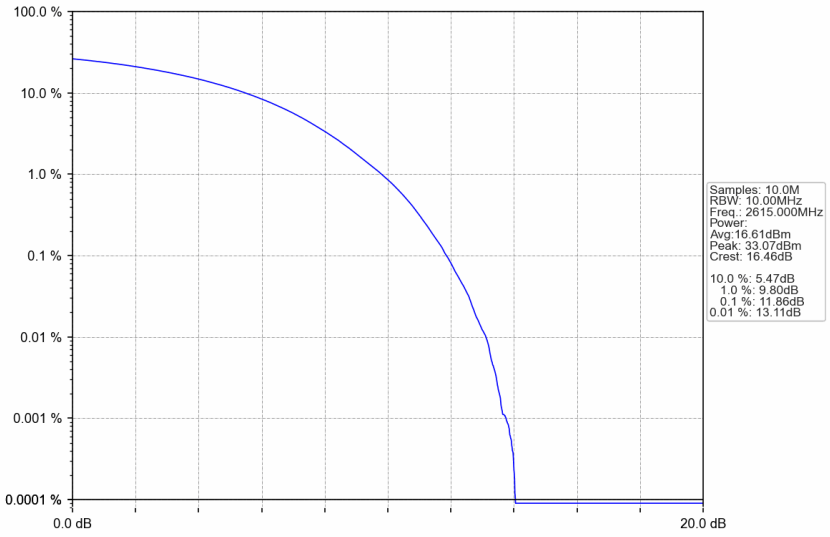

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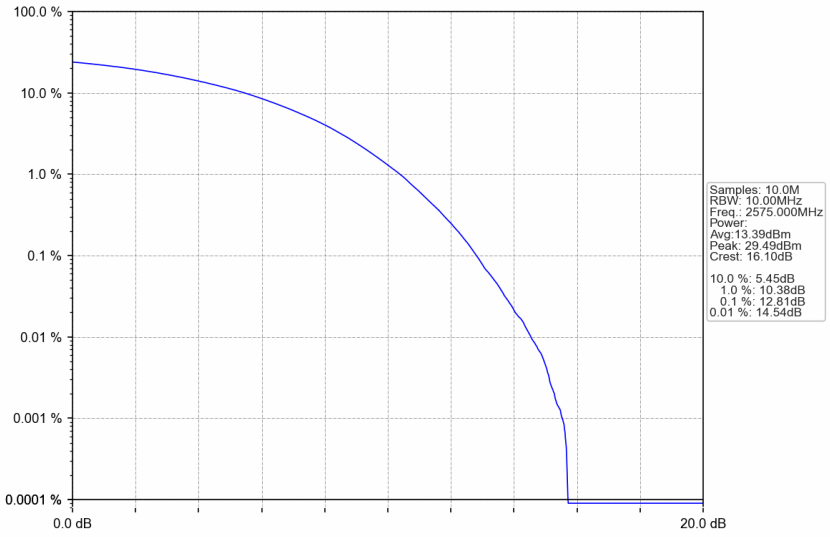
n38_15kHz_SISO_NTNV_10MHz_CP-OFDM 256 QAM_2575MHz_Outer_Full



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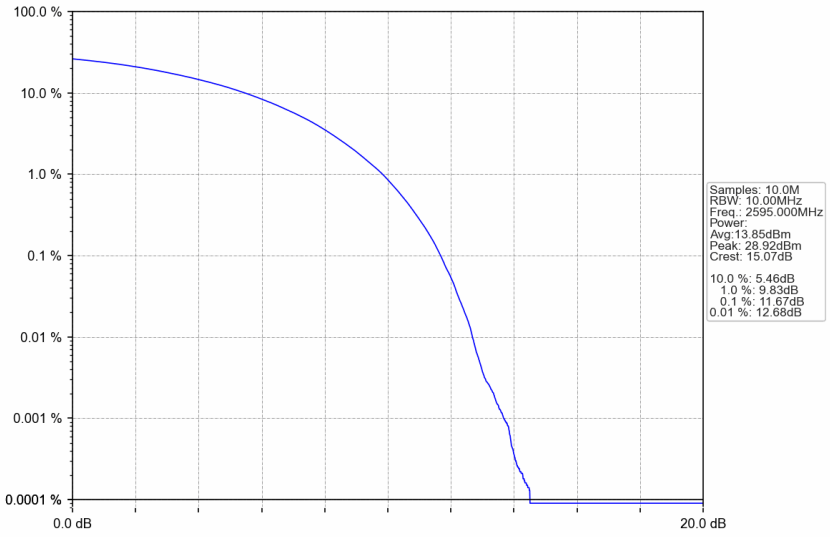

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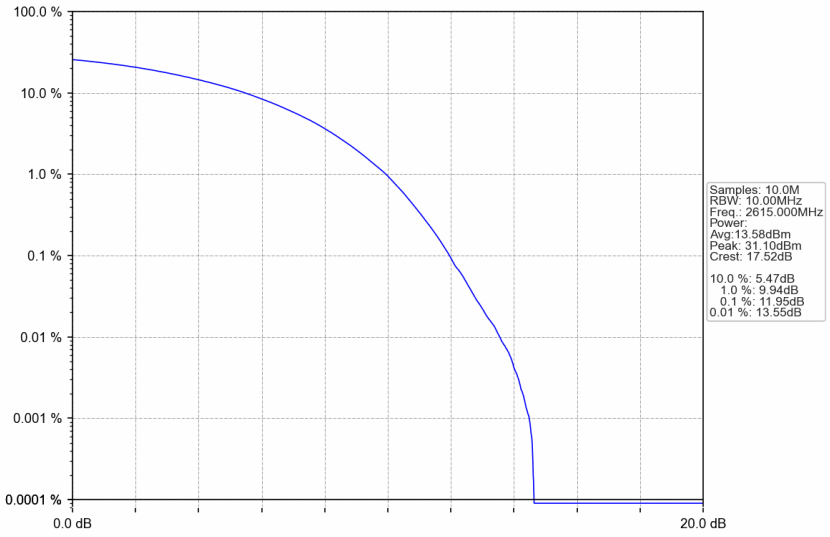
n38_15kHz_SISO_NTNV_10MHz_CP-OFDM 256 QAM_2615MHz_Outer_Full



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5.3 15k_SISO_15MHz_NTNV

5.3.1 Test Result

5G NR n38 SCS=15kHz SISO 15MHz NTNV							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2577.5	Outer_Full	10.62	/	/	<=13	Pass
	2595	Outer_Full	10.71	/	/	<=13	Pass
	2612.5	Outer_Full	10.71	/	/	<=13	Pass
DFT-s-OFDM QPSK	2577.5	Outer_Full	11.81	/	/	<=13	Pass
	2595	Outer_Full	11.75	/	/	<=13	Pass
	2612.5	Outer_Full	11.83	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	2577.5	Outer_Full	12.14	/	/	<=13	Pass
	2595	Outer_Full	12.14	/	/	<=13	Pass
	2612.5	Outer_Full	12.28	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	2577.5	Outer_Full	12.05	/	/	<=13	Pass
	2595	Outer_Full	12.18	/	/	<=13	Pass
	2612.5	Outer_Full	12.28	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	2577.5	Outer_Full	12.83	/	/	<=13	Pass
	2595	Outer_Full	12.24	/	/	<=13	Pass
	2612.5	Outer_Full	12.22	/	/	<=13	Pass
CP-OFDM QPSK	2577.5	Outer_Full	11.96	/	/	<=13	Pass
	2595	Outer_Full	11.76	/	/	<=13	Pass
	2612.5	Outer_Full	12.11	/	/	<=13	Pass
CP-OFDM 16 QAM	2577.5	Outer_Full	12.01	/	/	<=13	Pass
	2595	Outer_Full	11.95	/	/	<=13	Pass
	2612.5	Outer_Full	11.82	/	/	<=13	Pass
CP-OFDM 64 QAM	2577.5	Outer_Full	12.14	/	/	<=13	Pass
	2595	Outer_Full	11.66	/	/	<=13	Pass
	2612.5	Outer_Full	11.80	/	/	<=13	Pass
CP-OFDM 256 QAM	2577.5	Outer_Full	12.38	/	/	<=13	Pass
	2595	Outer_Full	11.99	/	/	<=13	Pass
	2612.5	Outer_Full	12.20	/	/	<=13	Pass

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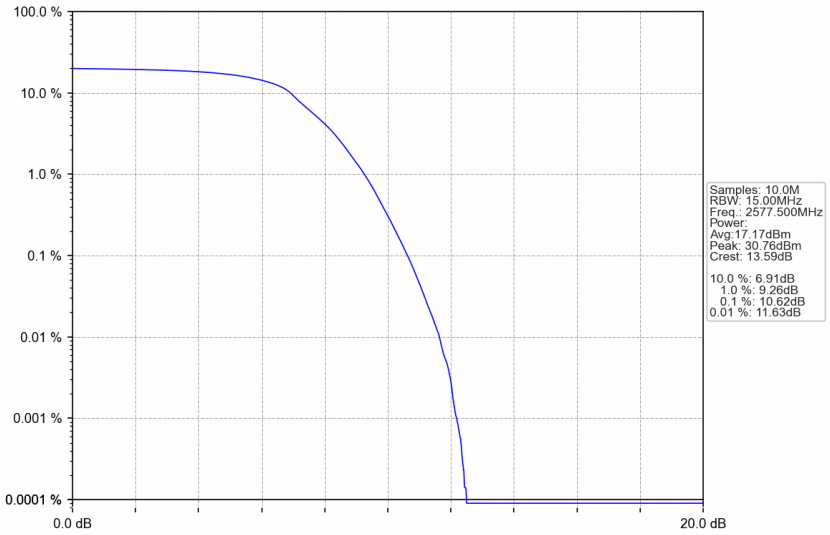
5.3.2 Test Graph

n38_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_2577.5MHz_Outer_Full



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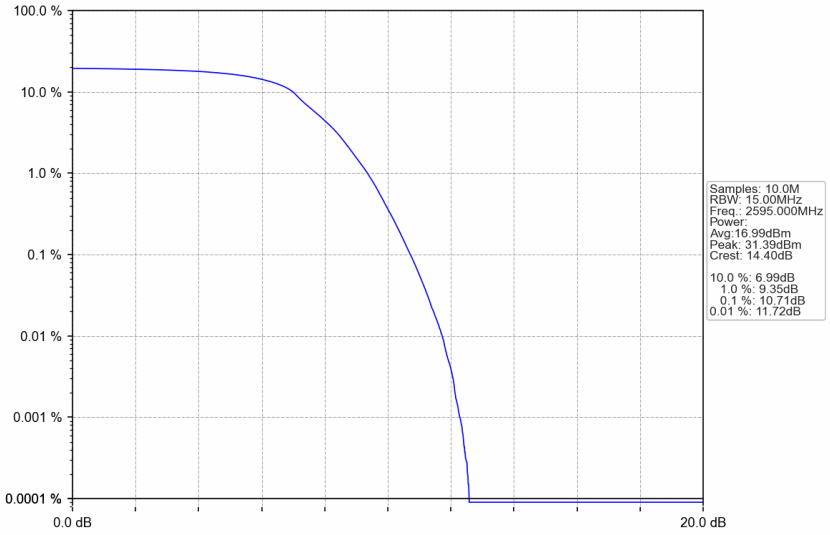

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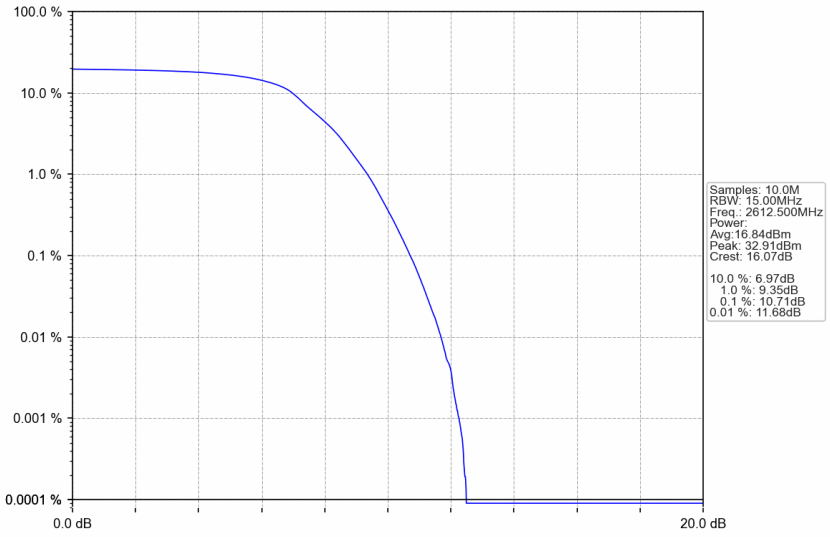

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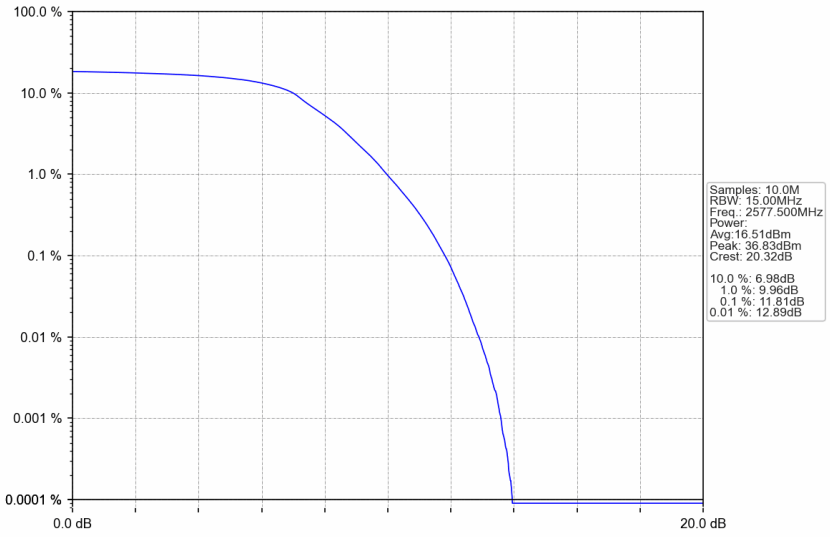

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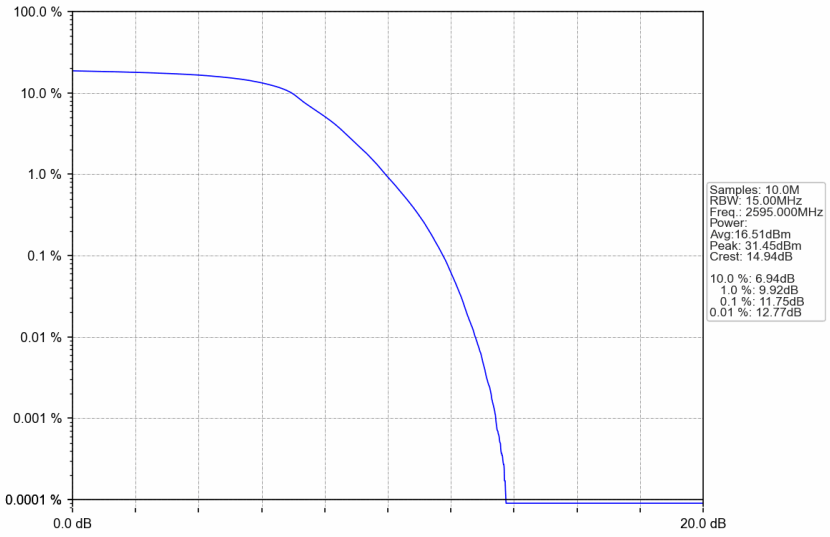

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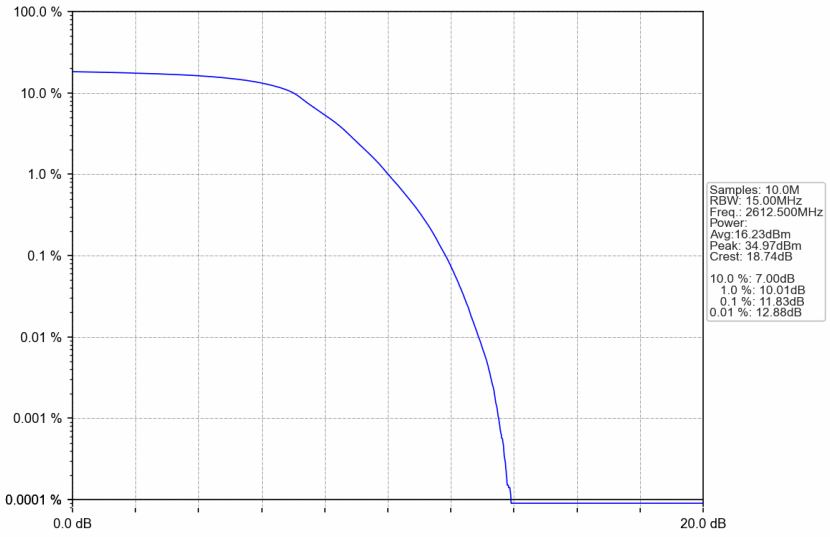

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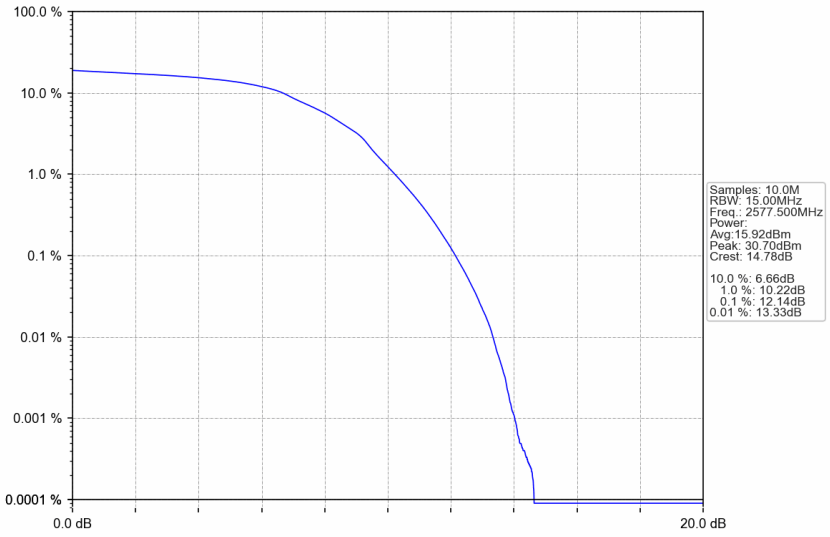

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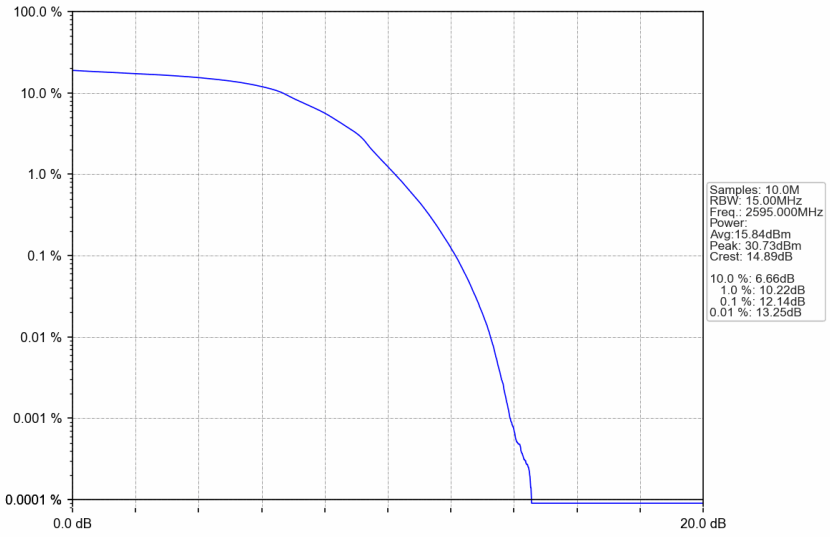

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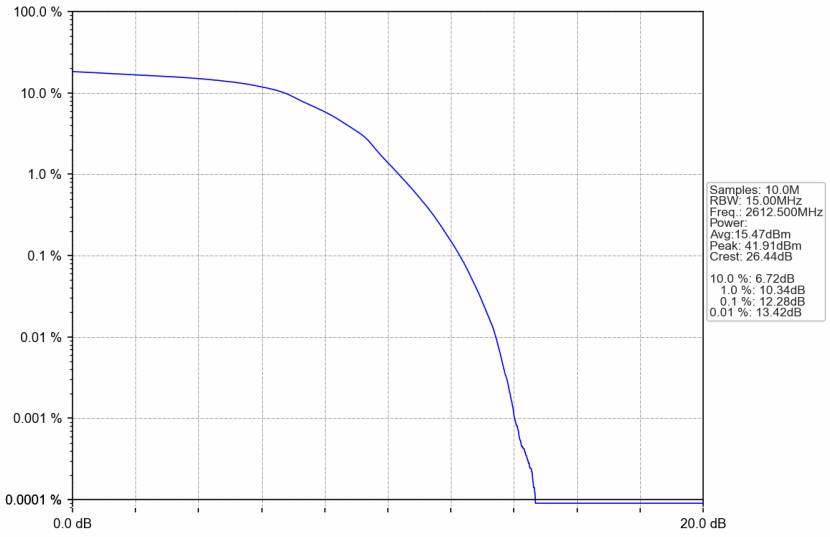

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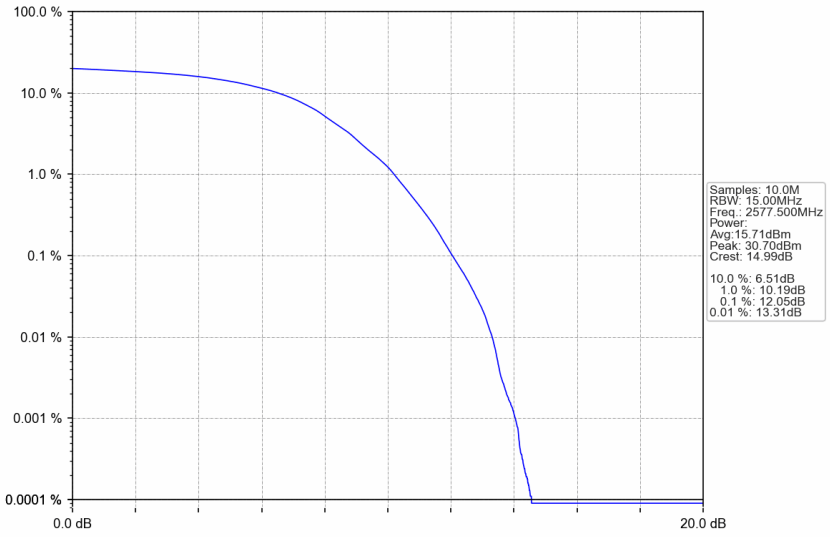

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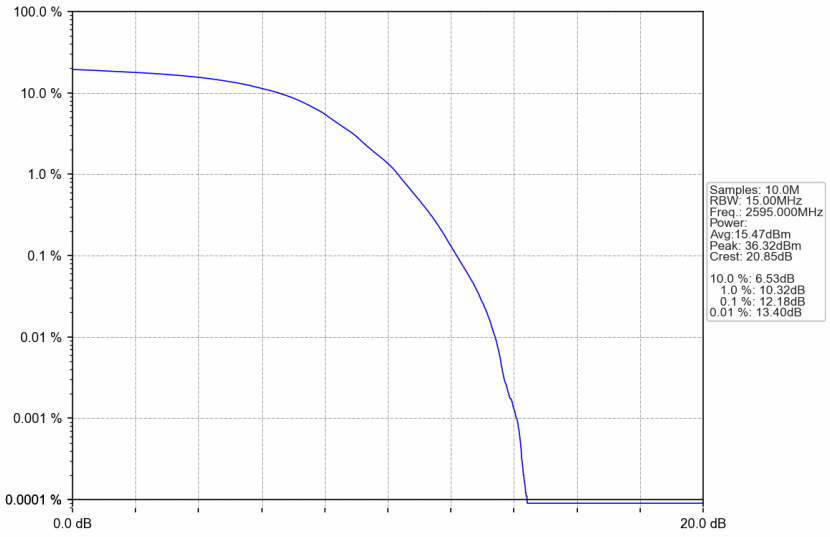
n38_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 64 QAM_2595MHz_Outer_Full



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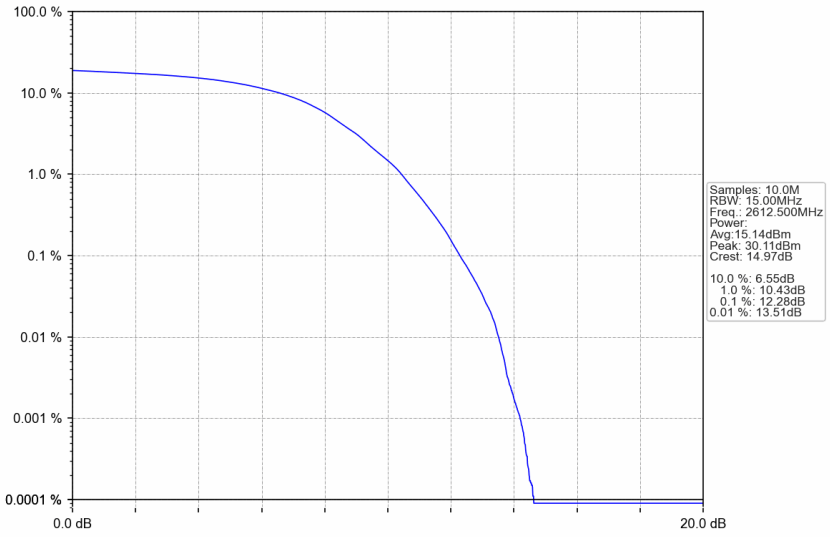

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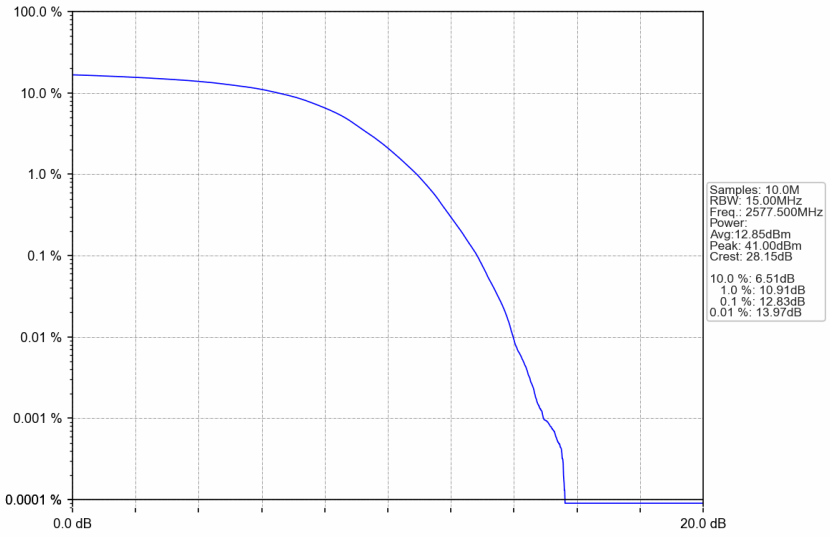
n38_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 256 QAM_2577.5MHz_Outer_Full



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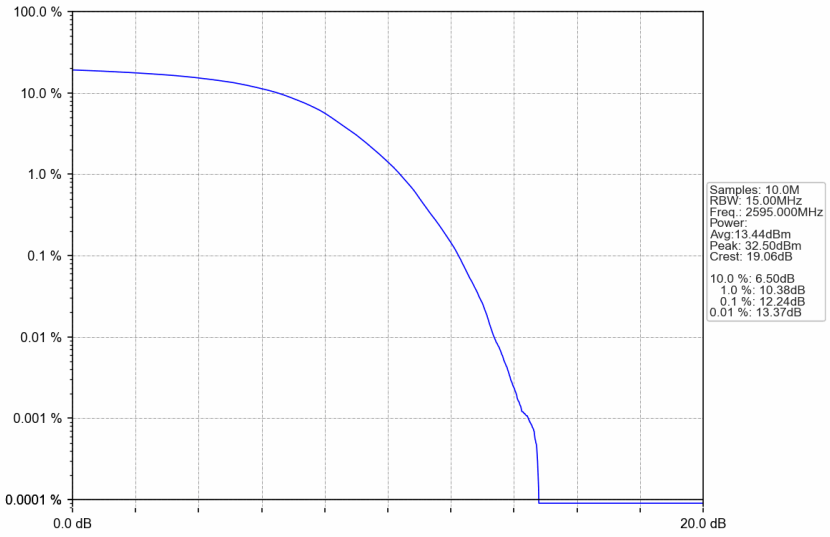

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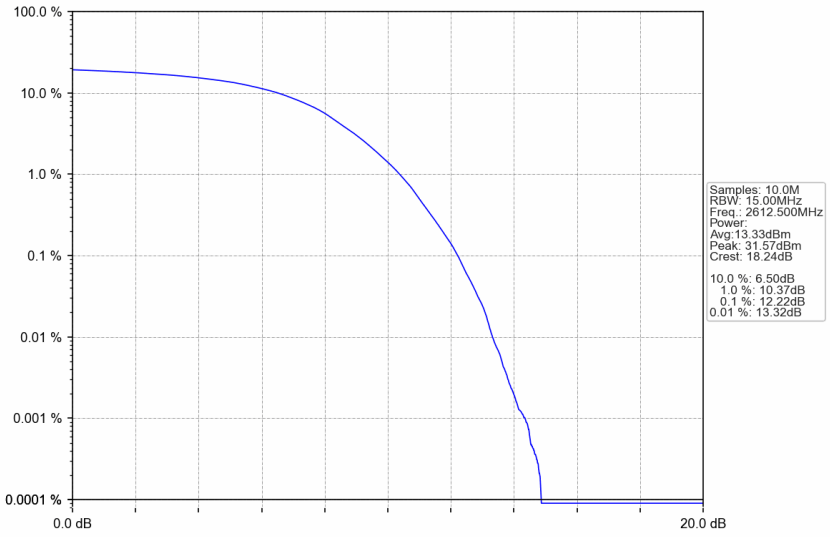
n38_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 256 QAM_2612.5MHz_Outer_Full



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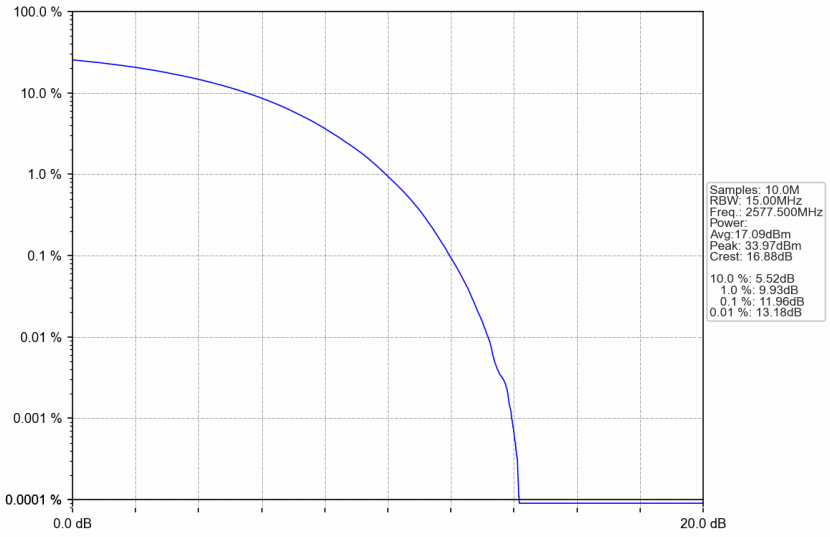

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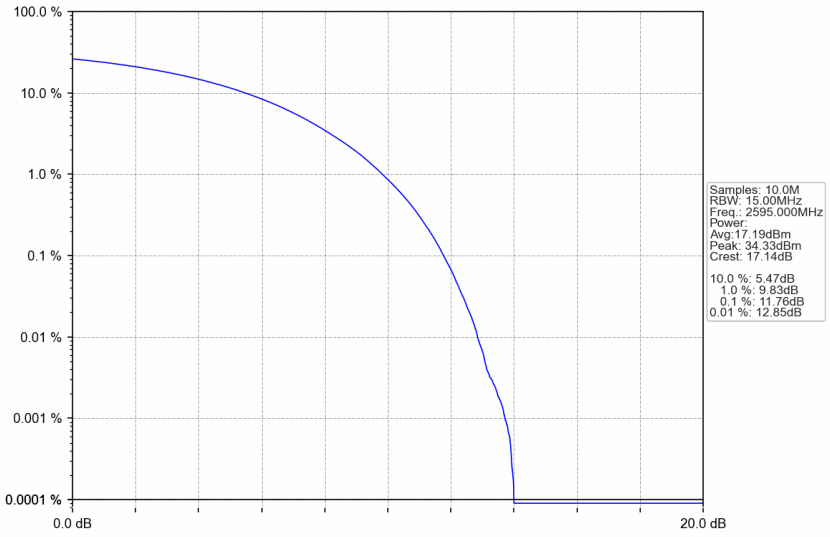

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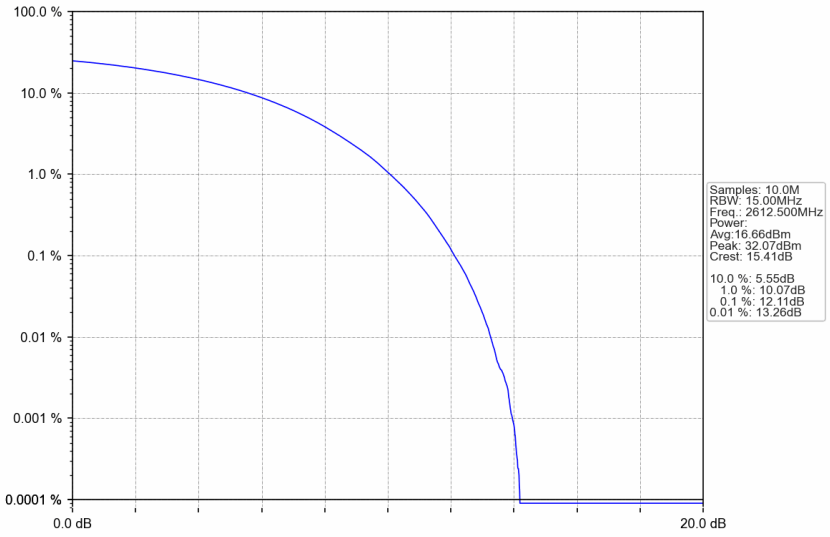

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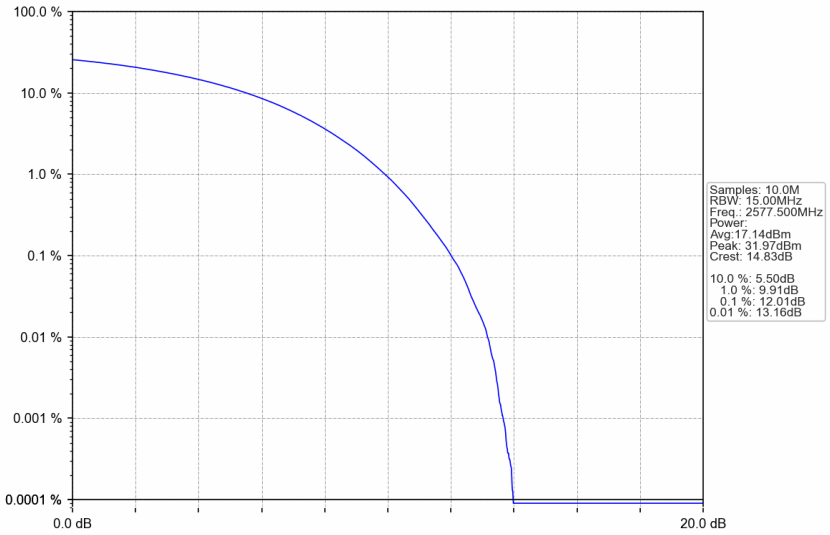

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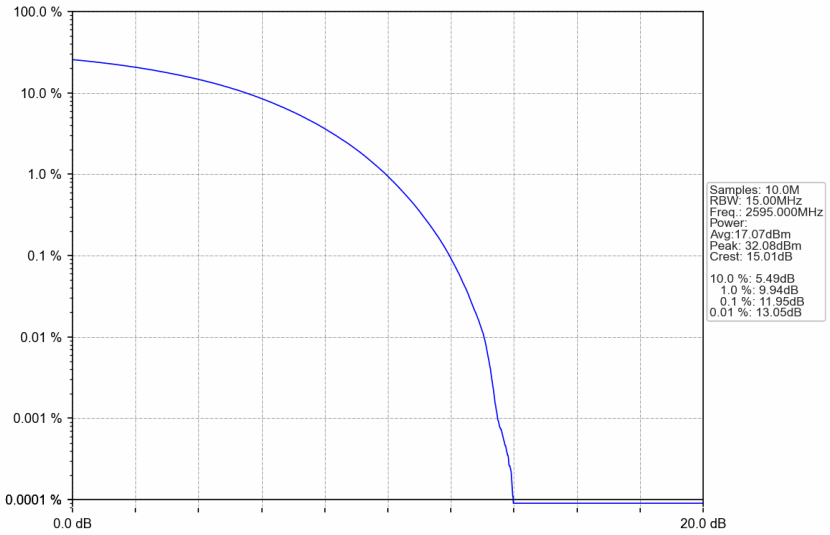

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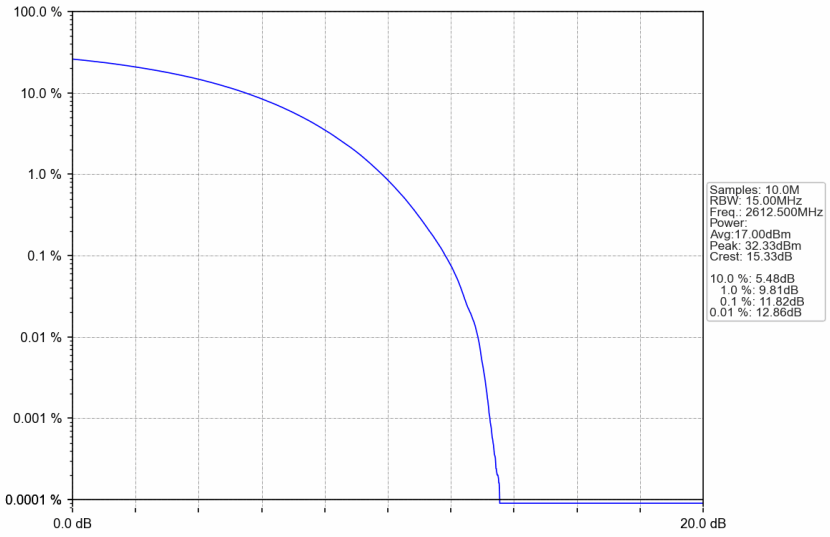

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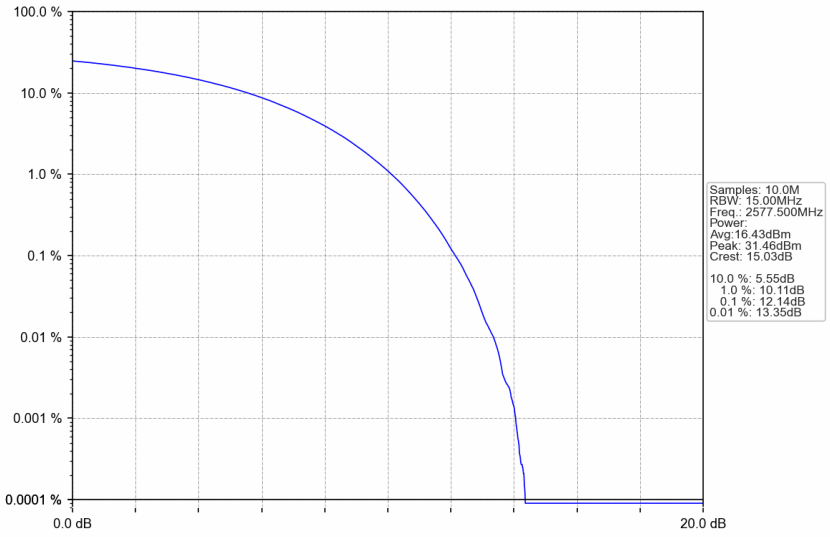

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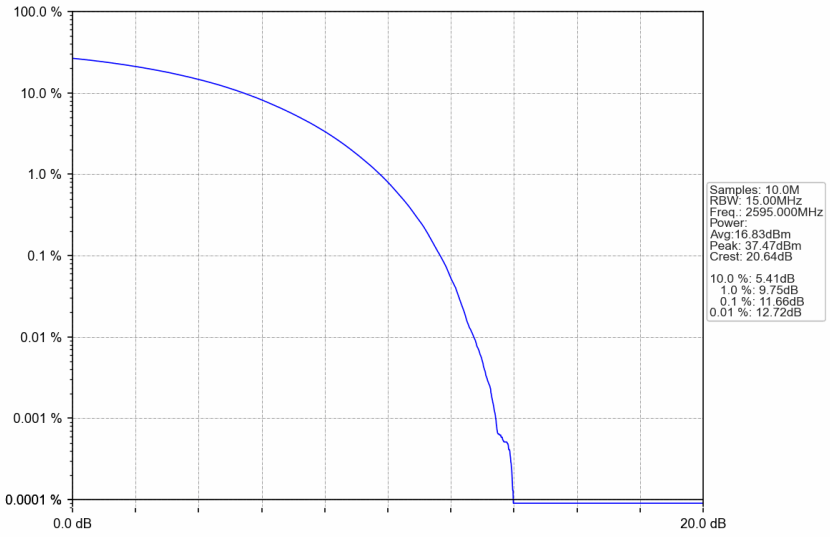

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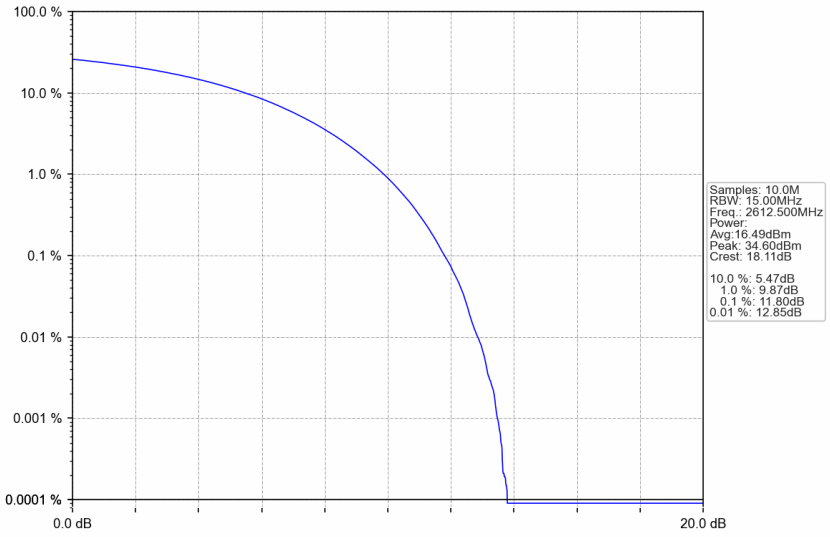

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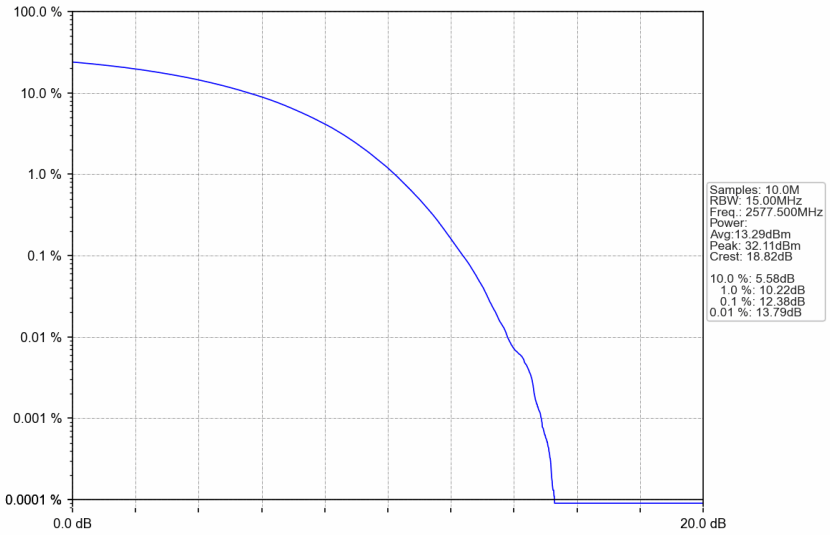
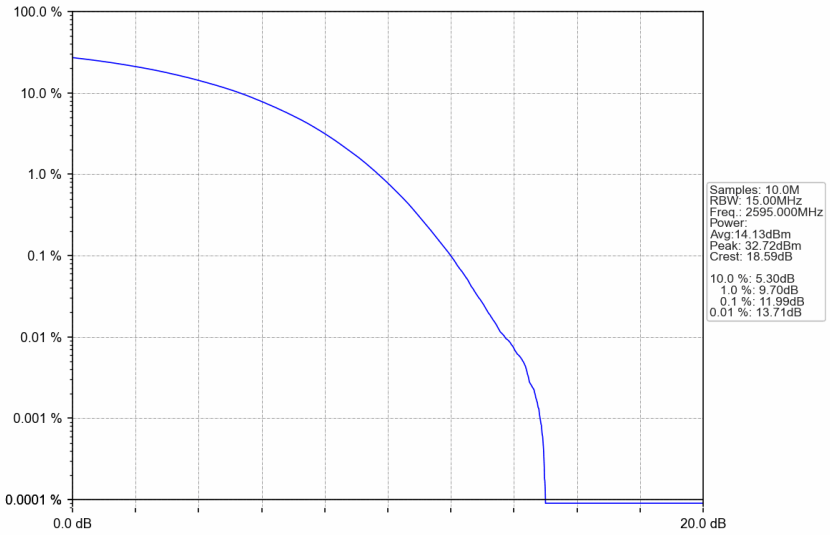


n38_15kHz_SISO_NTNV_15MHz_CP-OFDM 256 QAM_2595MHz_Outer_Full



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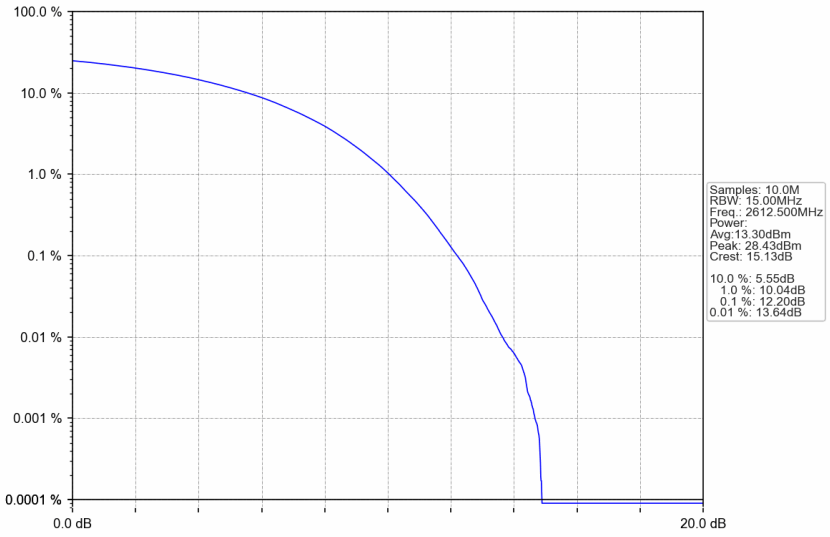
n38_15kHz_SISO_NTNV_15MHz_CP-OFDM 256 QAM_2612.5MHz_Outer_Full



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5.4 15k_SISO_20MHz_NTNV

5.4.1 Test Result

5G NR n38 SCS=15kHz SISO 20MHz NTNV							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2580	Outer_Full	10.59	/	/	<=13	Pass
	2595	Outer_Full	11.00	/	/	<=13	Pass
	2610	Outer_Full	10.75	/	/	<=13	Pass
DFT-s-OFDM QPSK	2580	Outer_Full	11.93	/	/	<=13	Pass
	2595	Outer_Full	11.53	/	/	<=13	Pass
	2610	Outer_Full	11.75	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	2580	Outer_Full	12.42	/	/	<=13	Pass
	2595	Outer_Full	12.71	/	/	<=13	Pass
	2610	Outer_Full	12.36	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	2580	Outer_Full	12.01	/	/	<=13	Pass
	2595	Outer_Full	12.26	/	/	<=13	Pass
	2610	Outer_Full	12.29	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	2580	Outer_Full	12.50	/	/	<=13	Pass
	2595	Outer_Full	12.35	/	/	<=13	Pass
	2610	Outer_Full	12.88	/	/	<=13	Pass
CP-OFDM QPSK	2580	Outer_Full	12.05	/	/	<=13	Pass
	2595	Outer_Full	11.88	/	/	<=13	Pass
	2610	Outer_Full	11.89	/	/	<=13	Pass
CP-OFDM 16 QAM	2580	Outer_Full	11.81	/	/	<=13	Pass
	2595	Outer_Full	11.79	/	/	<=13	Pass
	2610	Outer_Full	11.62	/	/	<=13	Pass
CP-OFDM 64 QAM	2580	Outer_Full	12.03	/	/	<=13	Pass
	2595	Outer_Full	12.20	/	/	<=13	Pass
	2610	Outer_Full	12.10	/	/	<=13	Pass
CP-OFDM 256 QAM	2580	Outer_Full	11.60	/	/	<=13	Pass
	2595	Outer_Full	12.81	/	/	<=13	Pass
	2610	Outer_Full	12.03	/	/	<=13	Pass

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5.4.2 Test Graph

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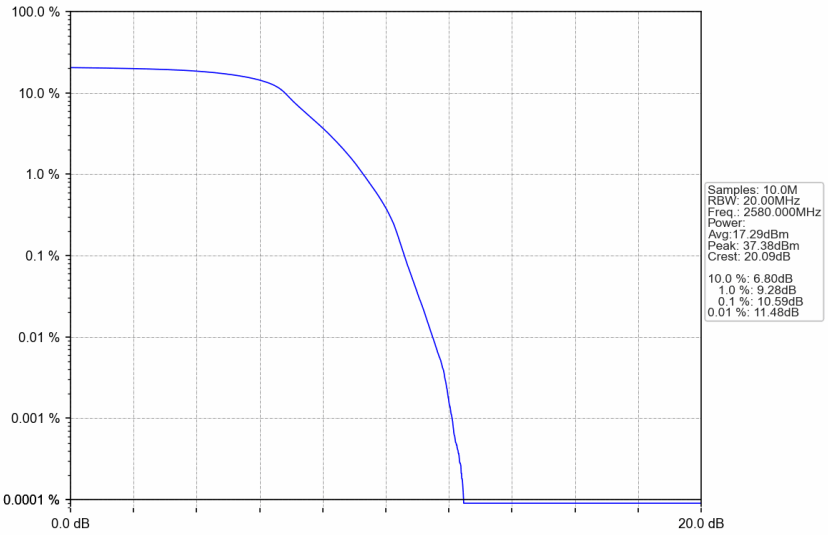

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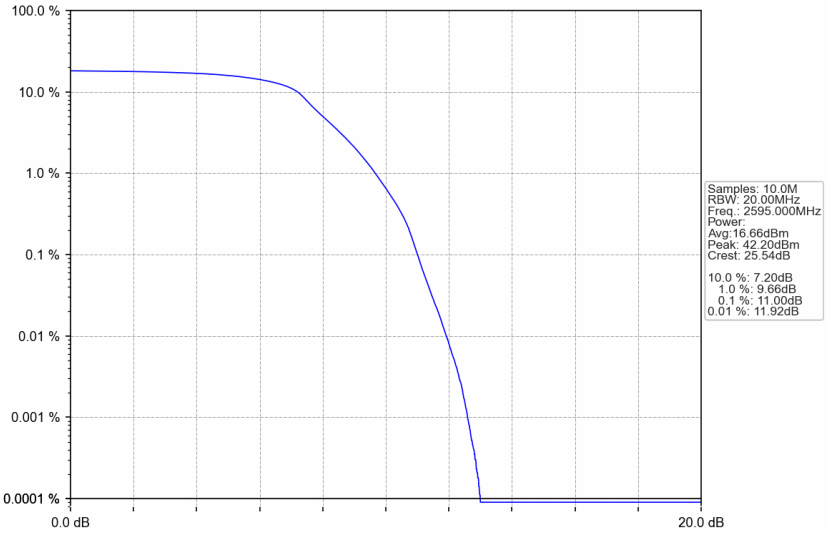

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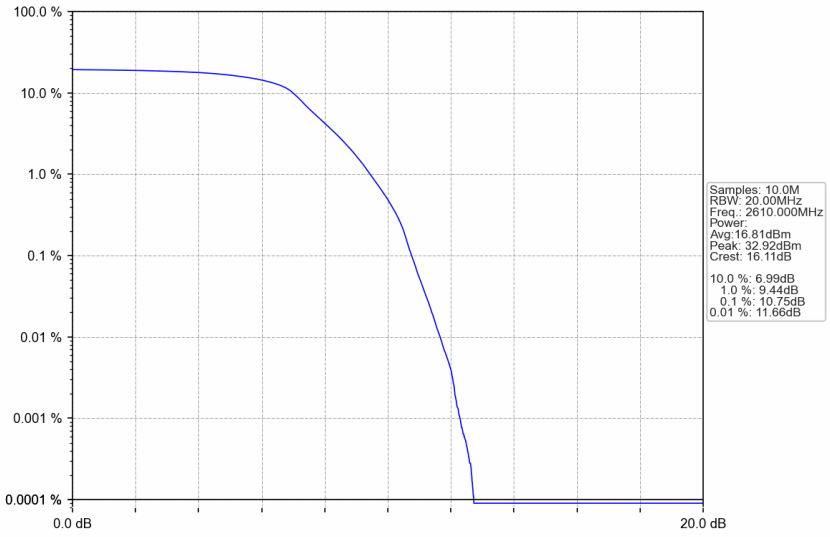
n38_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_2610MHz_Outer_Full



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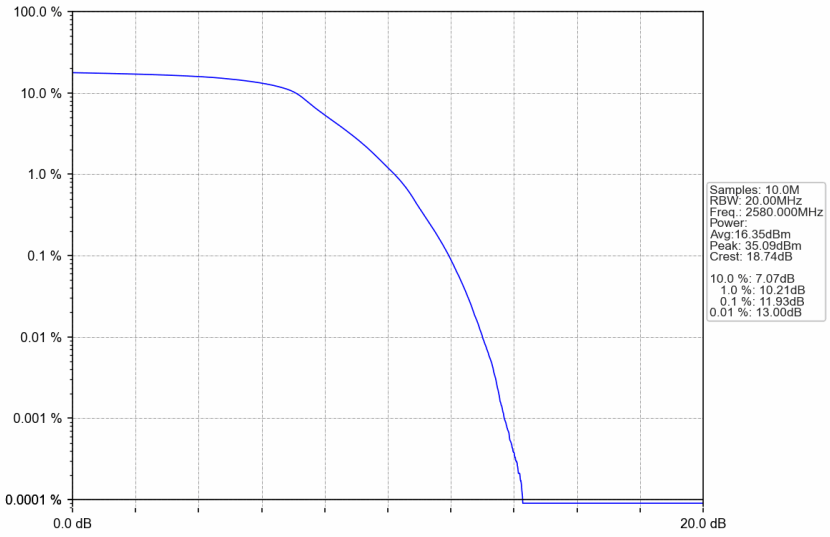

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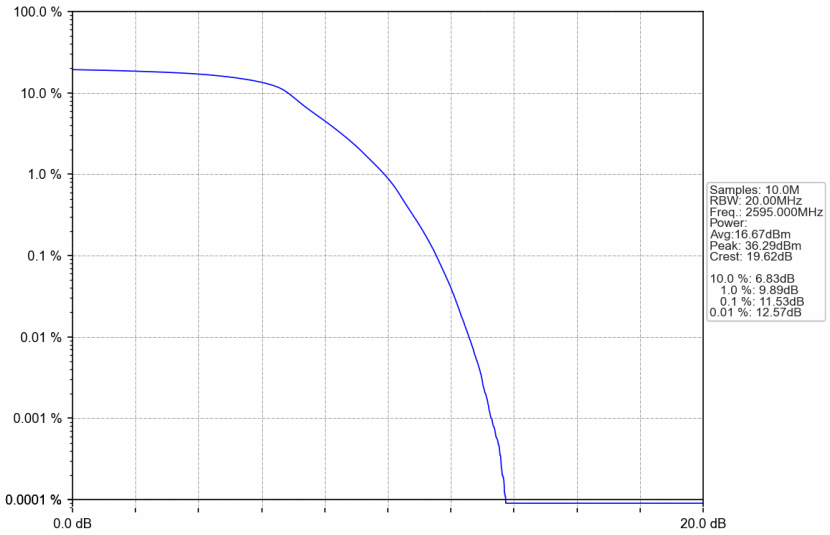

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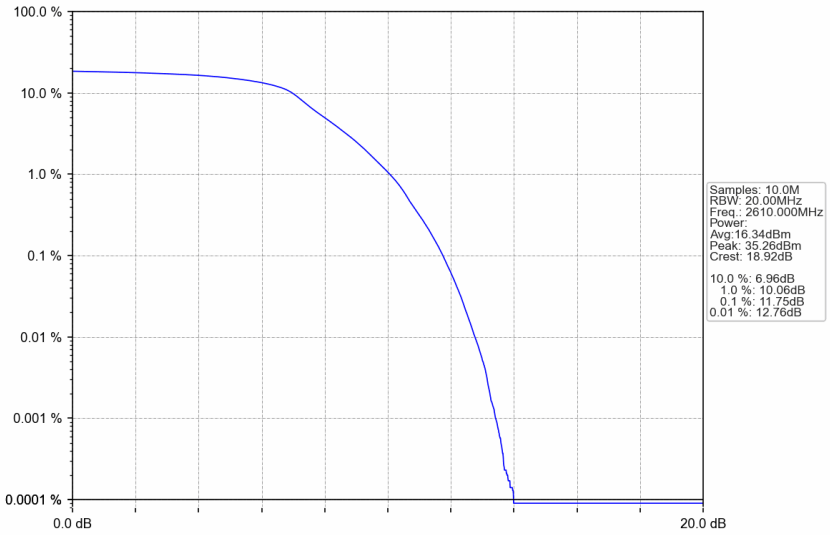

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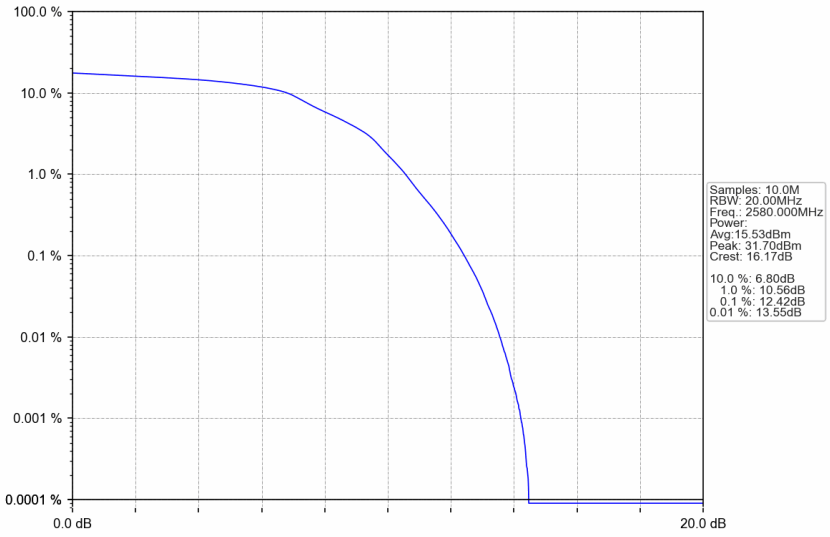

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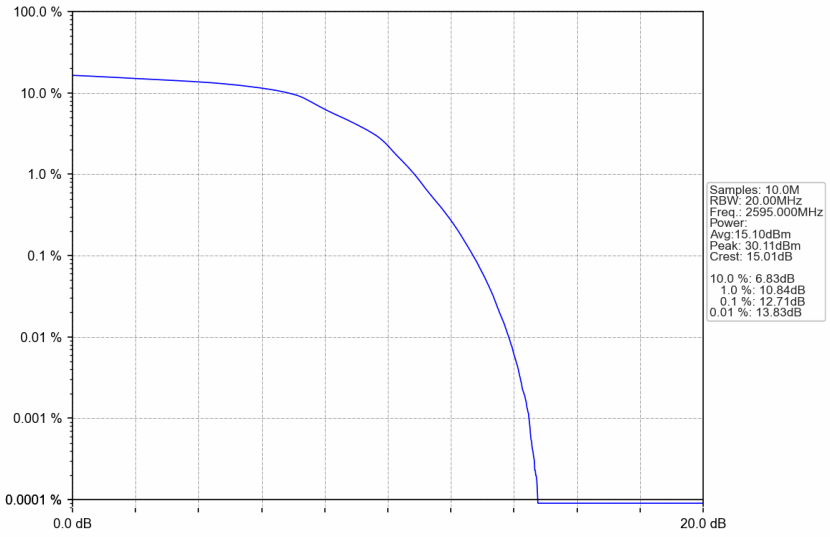

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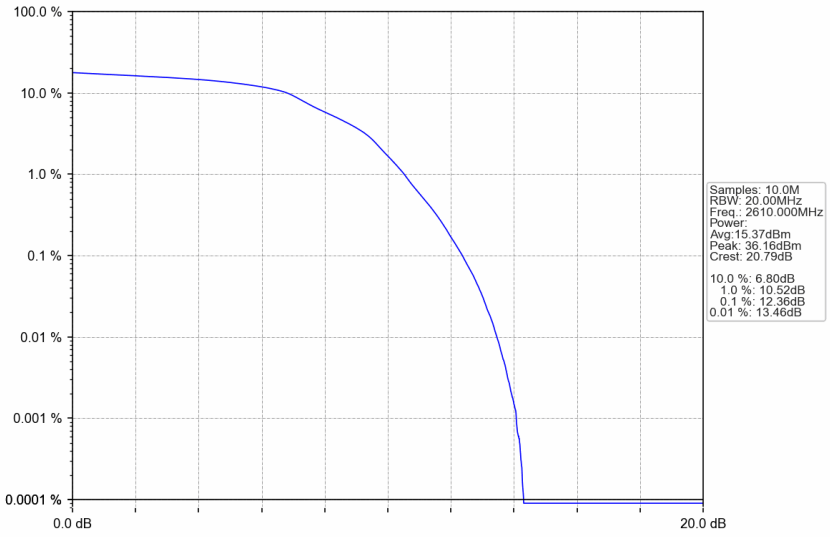

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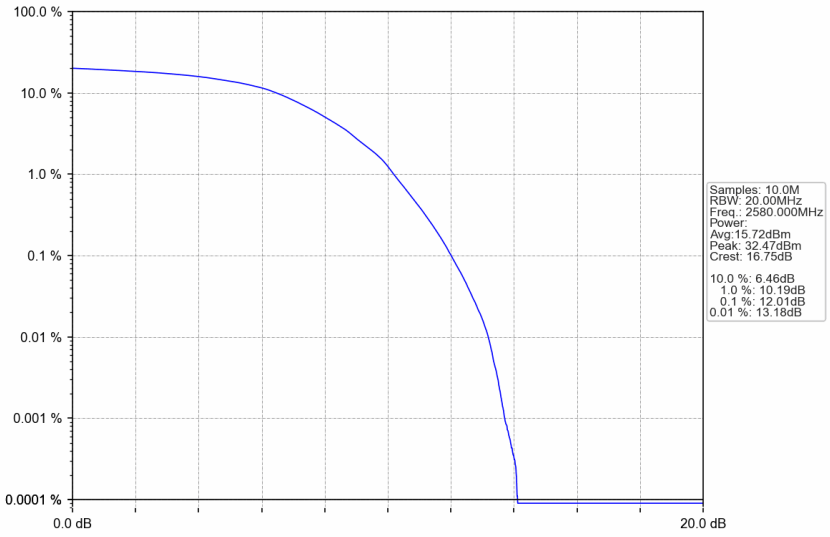

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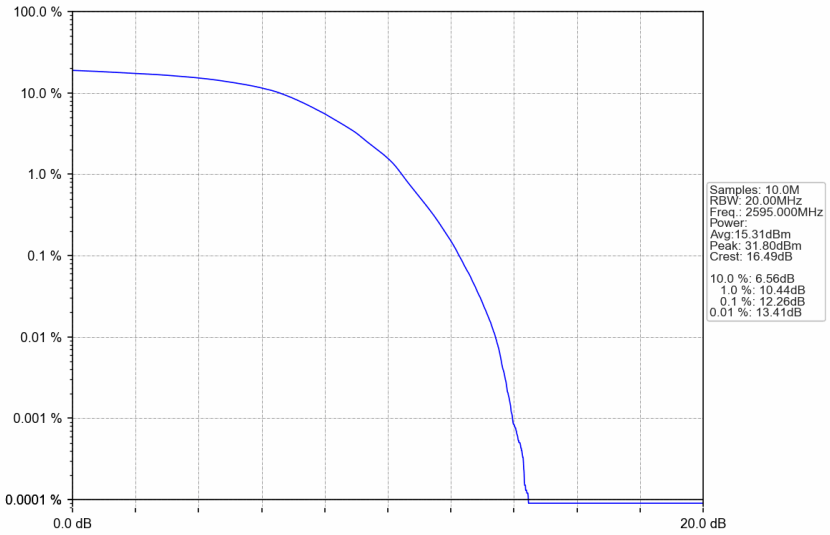

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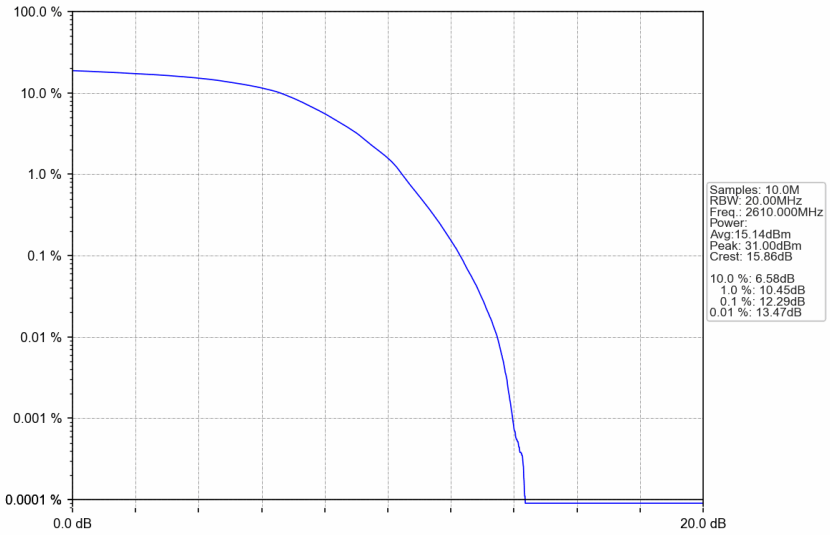

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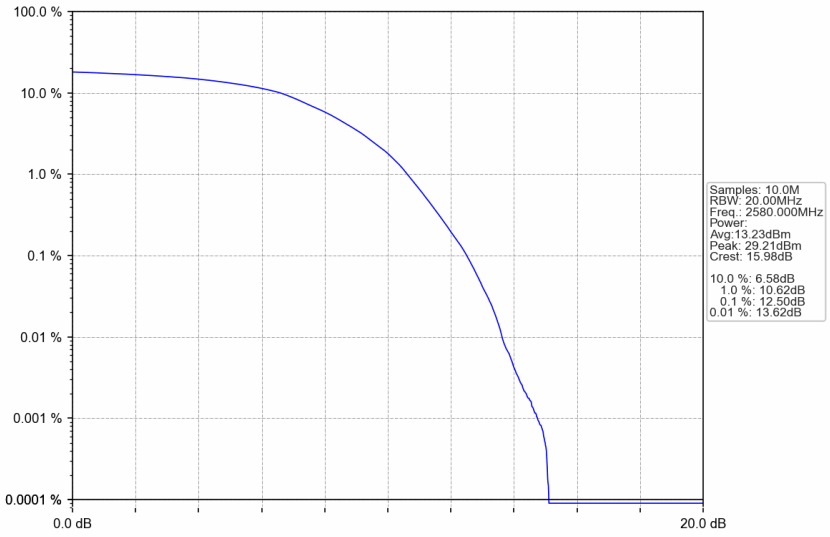
n38_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM 256 QAM_2580MHz_Outer_Full



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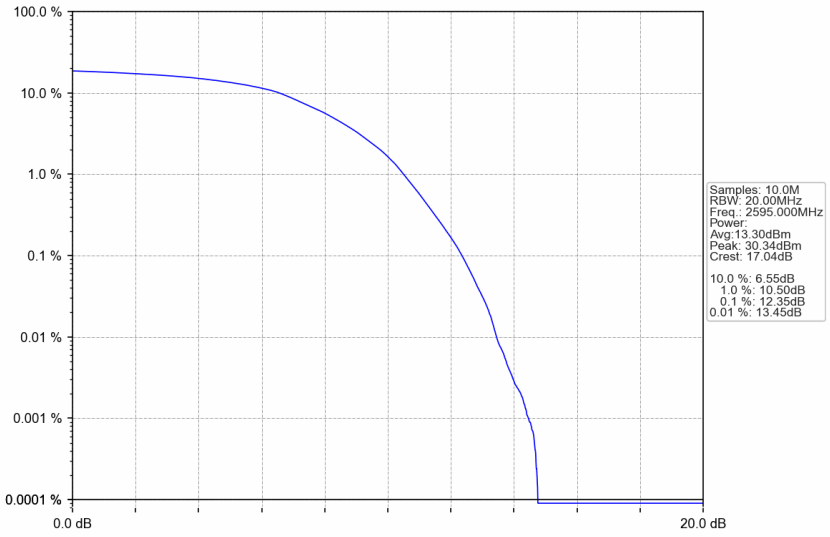

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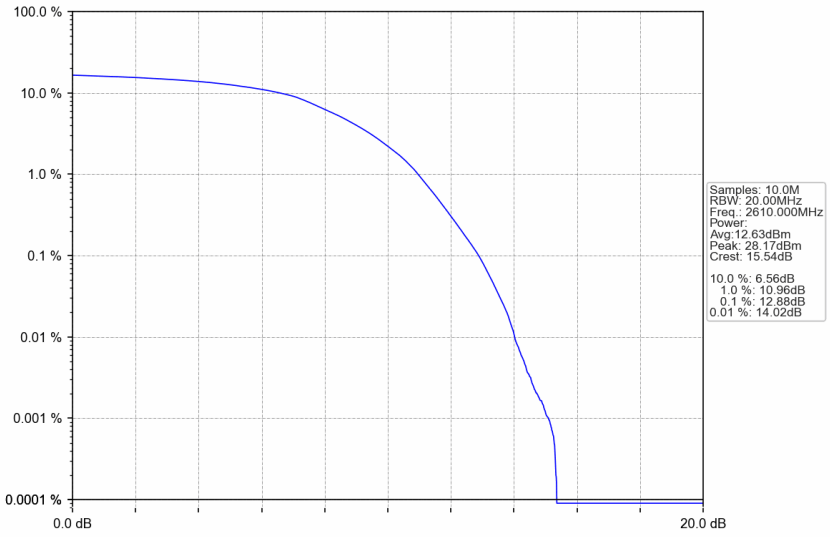
n38_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM 256 QAM_2610MHz_Outer_Full



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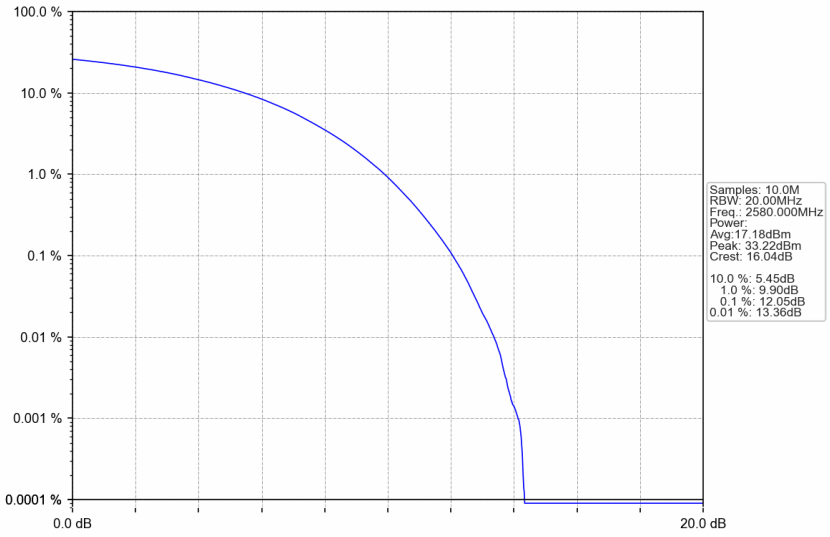

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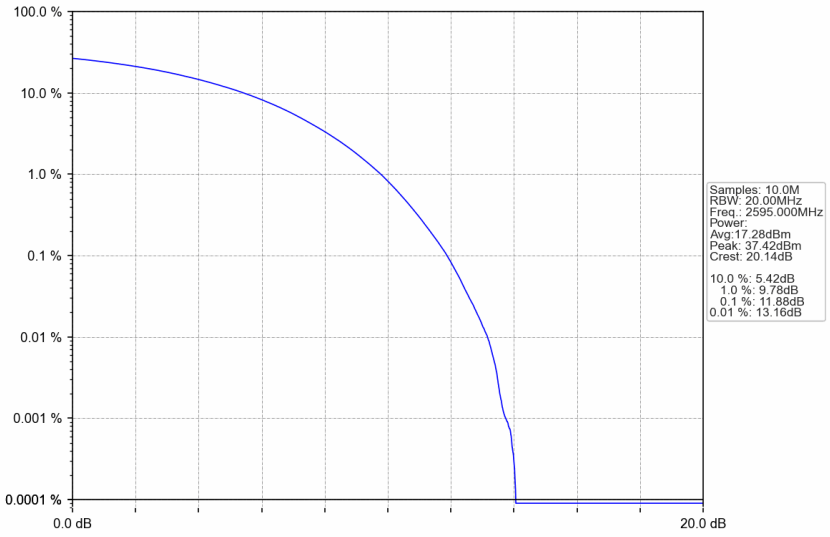

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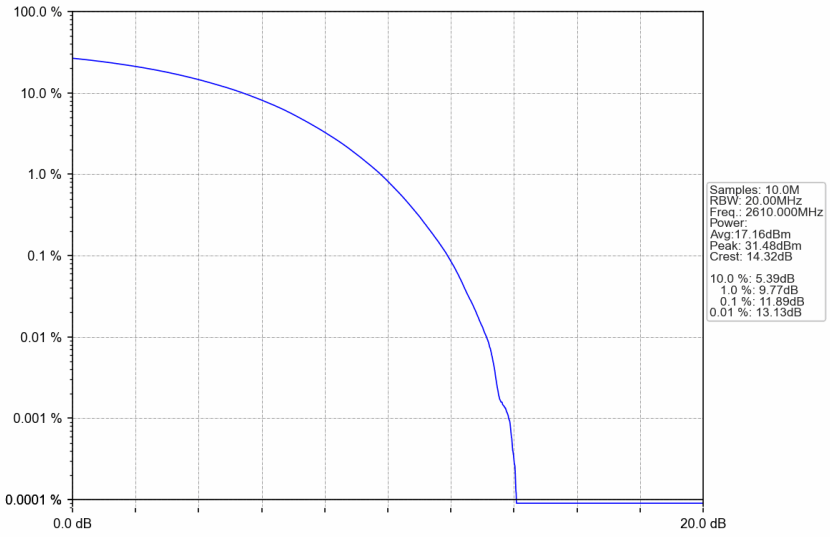

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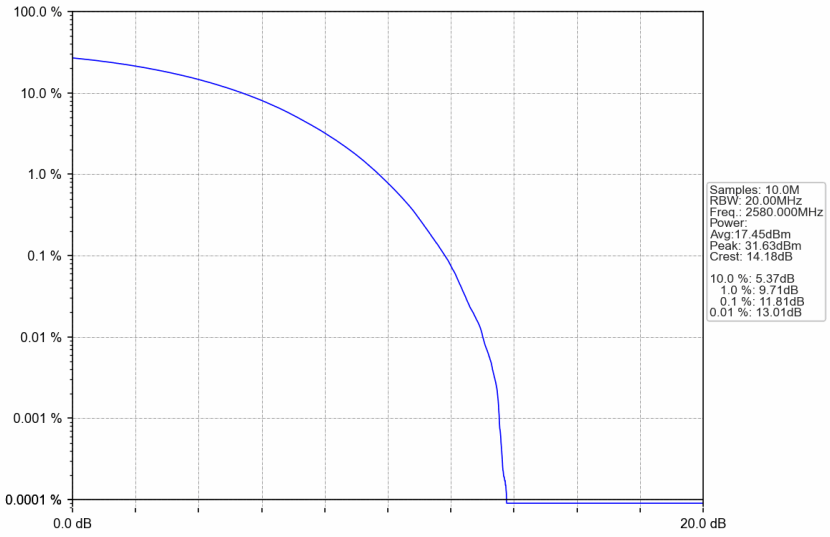

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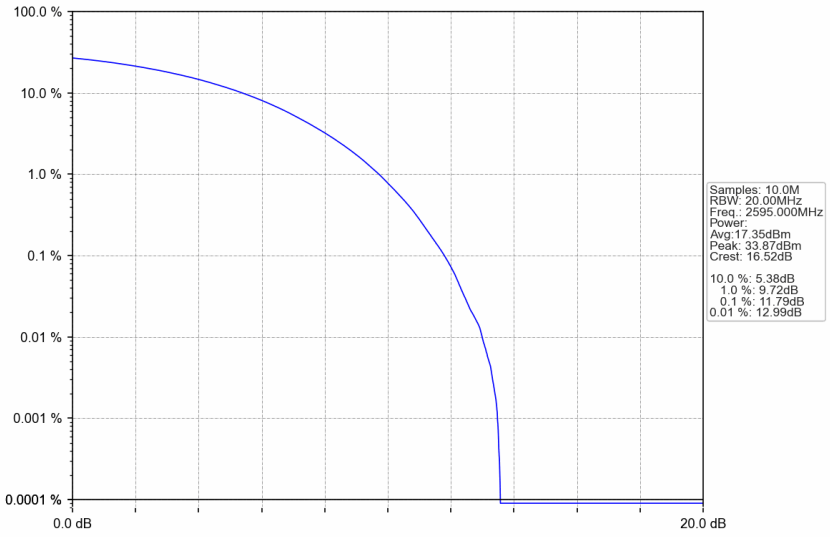

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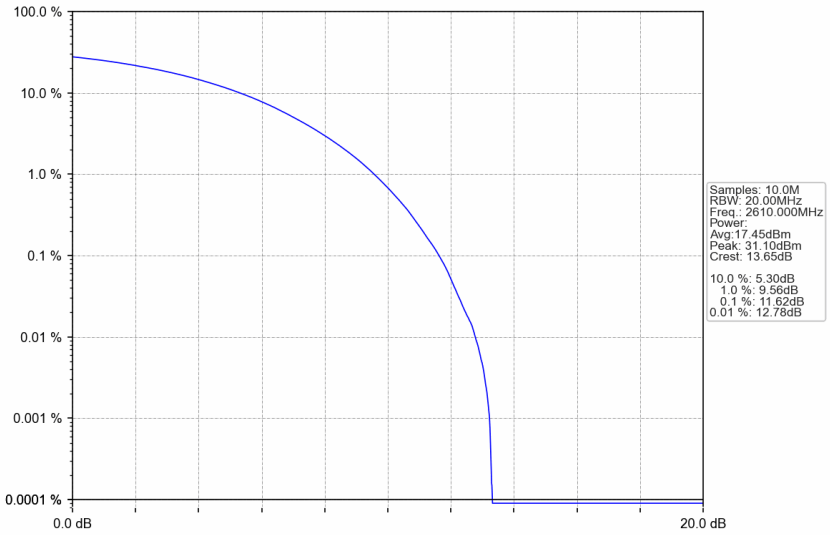

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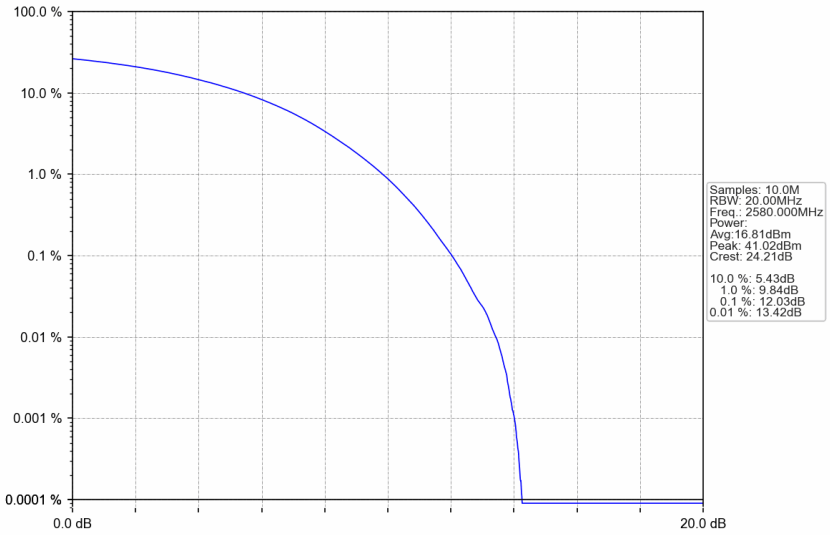

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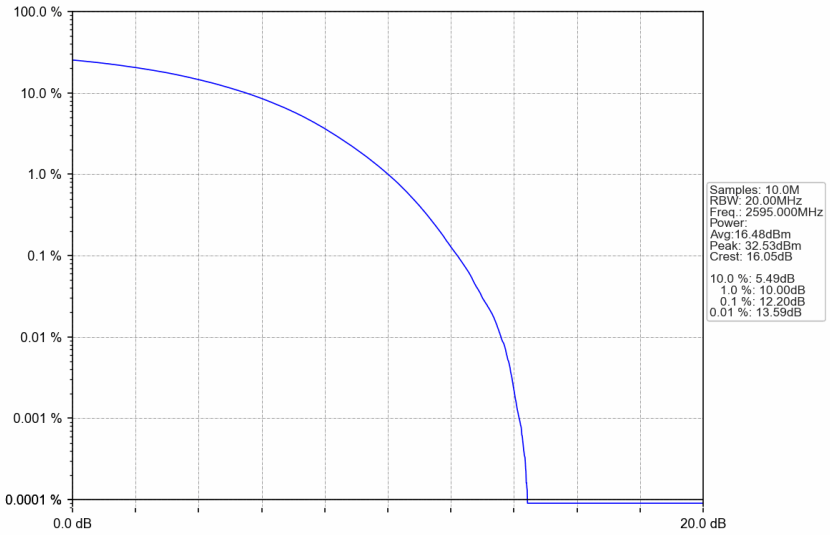
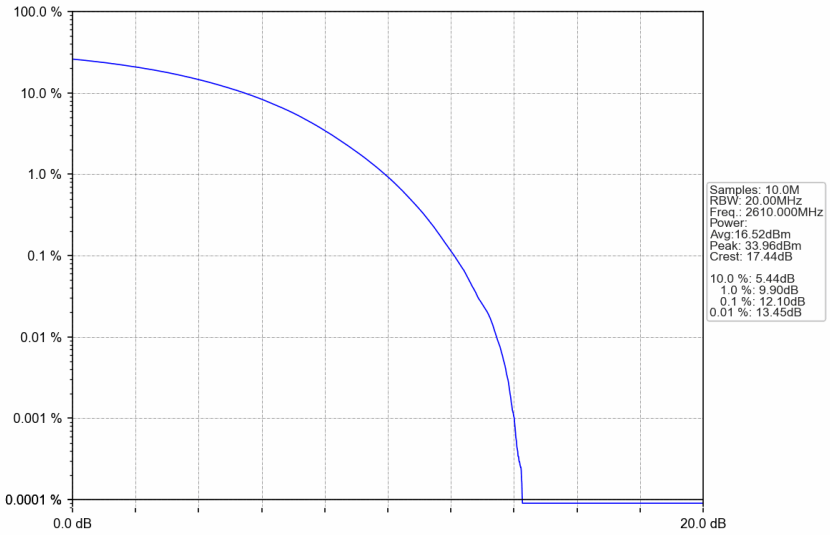


n38_15kHz_SISO_NTNV_20MHz_CP-OFDM 64 QAM_2610MHz_Outer_Full



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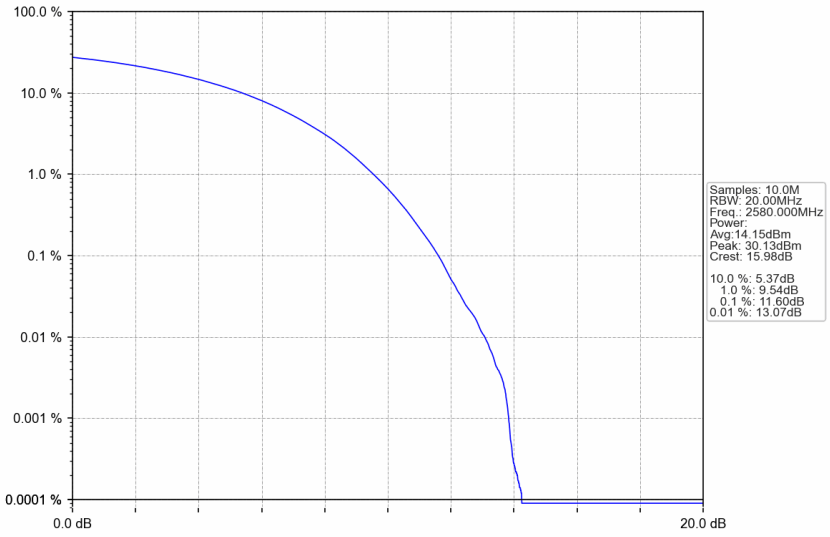

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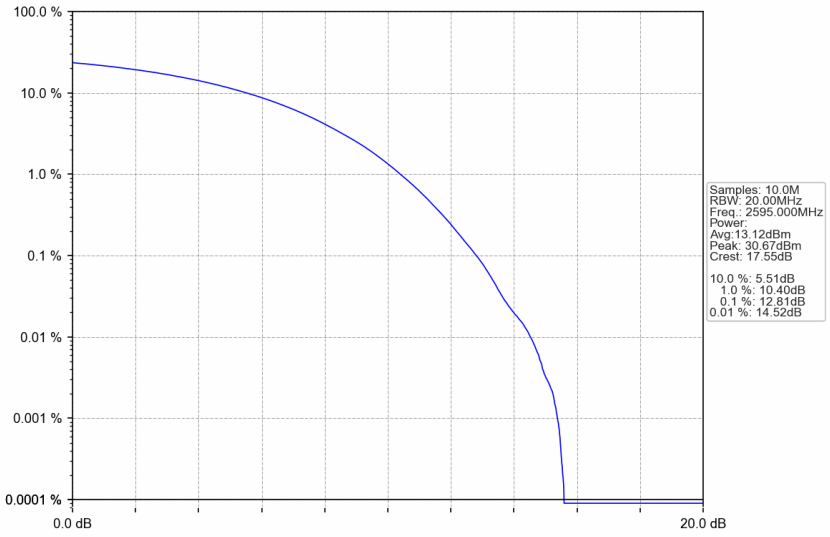

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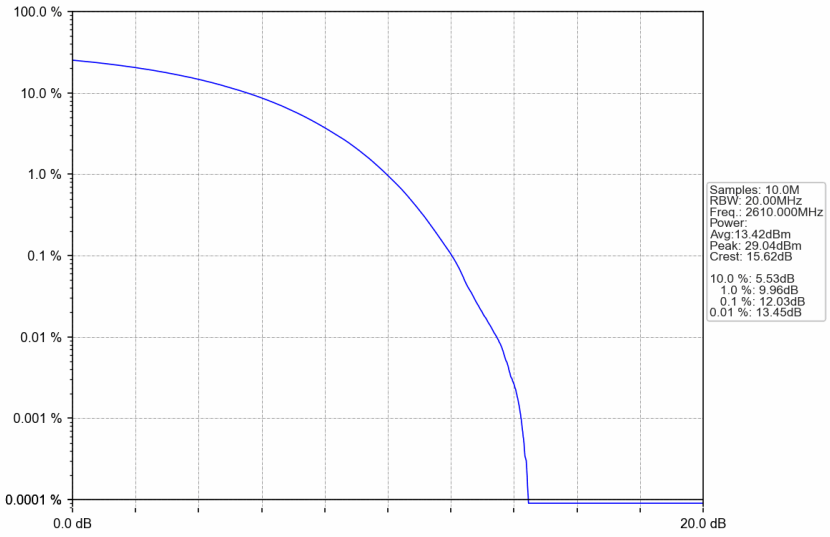

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5.5 15k_SISO_25MHz_NTNV

5.5.1 Test Result

5G NR n38 SCS=15kHz SISO 25MHz NTNV							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2582.5	Outer_Full	10.98	/	/	<=13	Pass
	2595	Outer_Full	11.61	/	/	<=13	Pass
	2607.5	Outer_Full	10.83	/	/	<=13	Pass
DFT-s-OFDM QPSK	2582.5	Outer_Full	11.76	/	/	<=13	Pass
	2595	Outer_Full	11.89	/	/	<=13	Pass
	2607.5	Outer_Full	11.53	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	2582.5	Outer_Full	12.18	/	/	<=13	Pass
	2595	Outer_Full	12.49	/	/	<=13	Pass
	2607.5	Outer_Full	12.23	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	2582.5	Outer_Full	12.19	/	/	<=13	Pass
	2595	Outer_Full	12.68	/	/	<=13	Pass
	2607.5	Outer_Full	12.46	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	2582.5	Outer_Full	12.60	/	/	<=13	Pass
	2595	Outer_Full	12.87	/	/	<=13	Pass
	2607.5	Outer_Full	12.12	/	/	<=13	Pass
CP-OFDM QPSK	2582.5	Outer_Full	12.23	/	/	<=13	Pass
	2595	Outer_Full	12.44	/	/	<=13	Pass
	2607.5	Outer_Full	11.97	/	/	<=13	Pass
CP-OFDM 16 QAM	2582.5	Outer_Full	12.47	/	/	<=13	Pass
	2595	Outer_Full	11.78	/	/	<=13	Pass
	2607.5	Outer_Full	11.87	/	/	<=13	Pass
CP-OFDM 64 QAM	2582.5	Outer_Full	12.21	/	/	<=13	Pass
	2595	Outer_Full	11.80	/	/	<=13	Pass
	2607.5	Outer_Full	12.16	/	/	<=13	Pass
CP-OFDM 256 QAM	2582.5	Outer_Full	12.01	/	/	<=13	Pass
	2595	Outer_Full	12.53	/	/	<=13	Pass
	2607.5	Outer_Full	12.14	/	/	<=13	Pass

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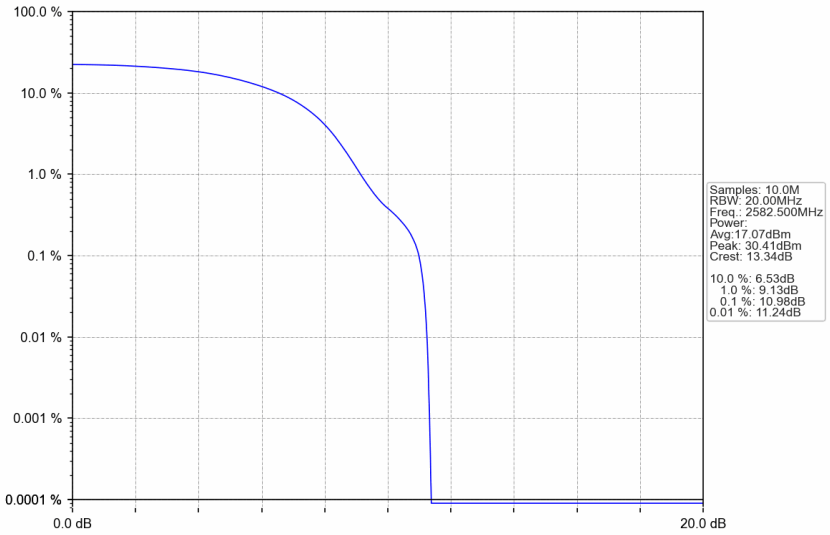
5.5.2 Test Graph

n38_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM PI/2 BPSK_2582.5MHz_Outer_Full



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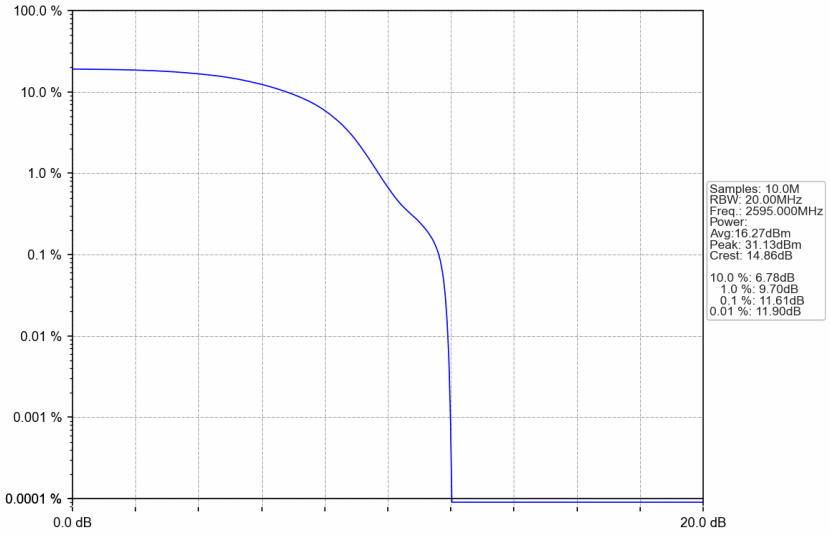

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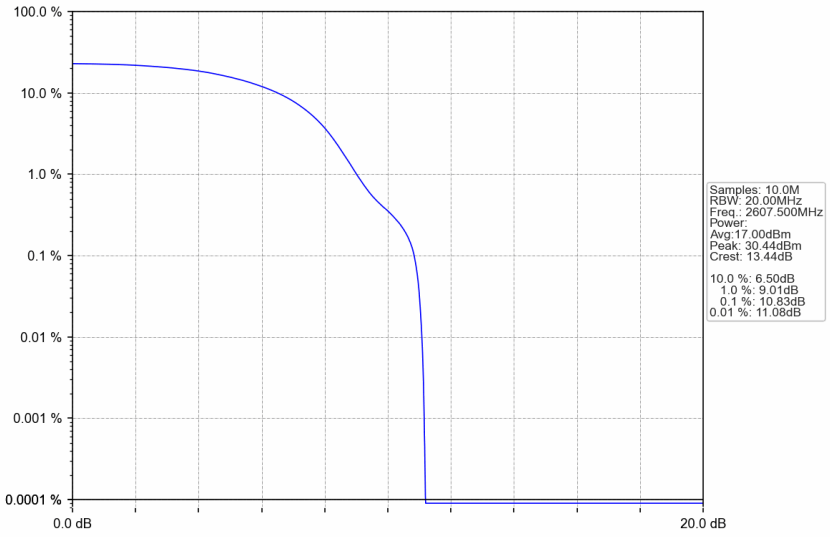
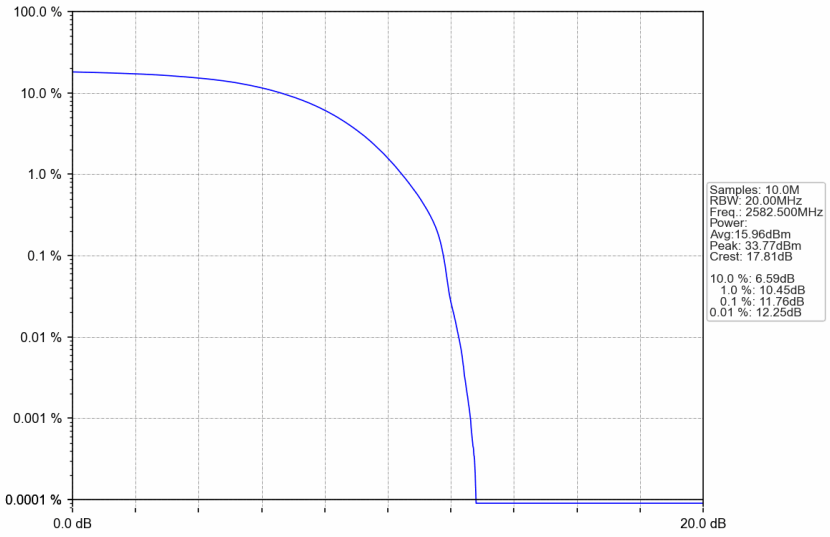
n38_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM PI/2 BPSK_2607.5MHz_Outer_Full



n38_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM QPSK_2582.5MHz_Outer_Full



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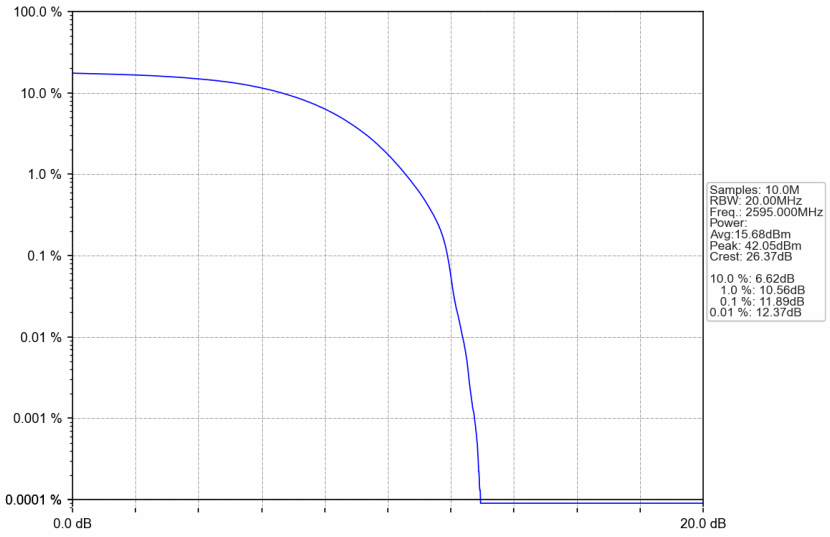
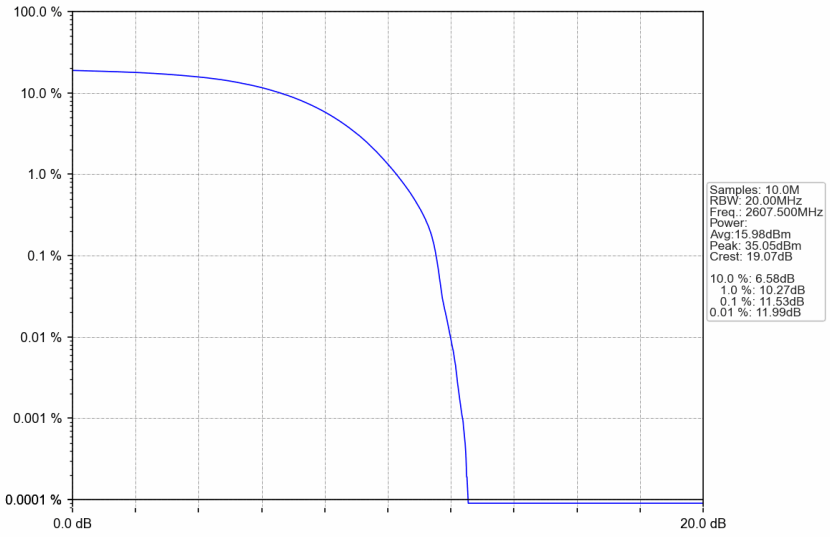
n38_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM QPSK_2595MHz_Outer_Full



n38_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM QPSK_2607.5MHz_Outer_Full



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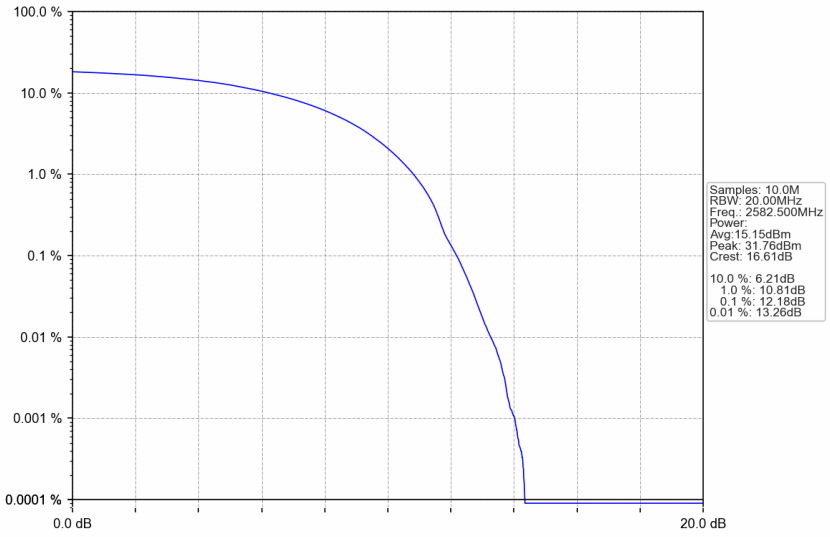
n38_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM 16 QAM_2582.5MHz_Outer_Full



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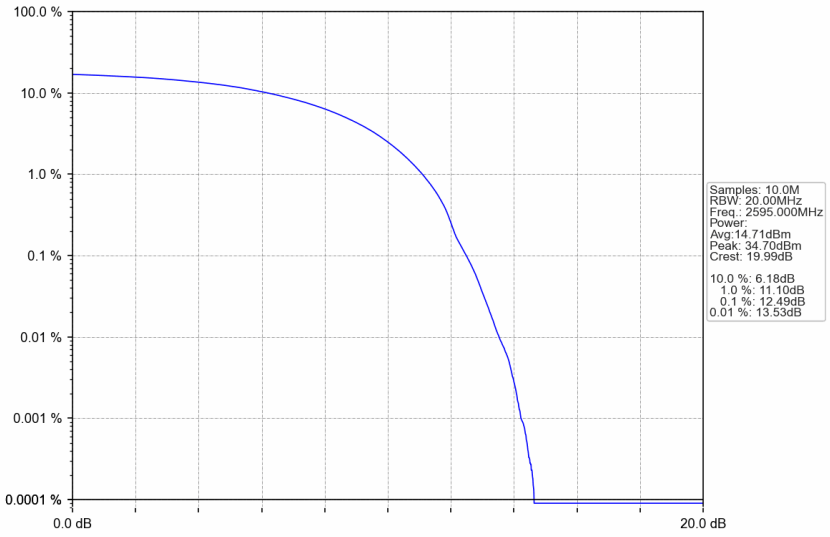

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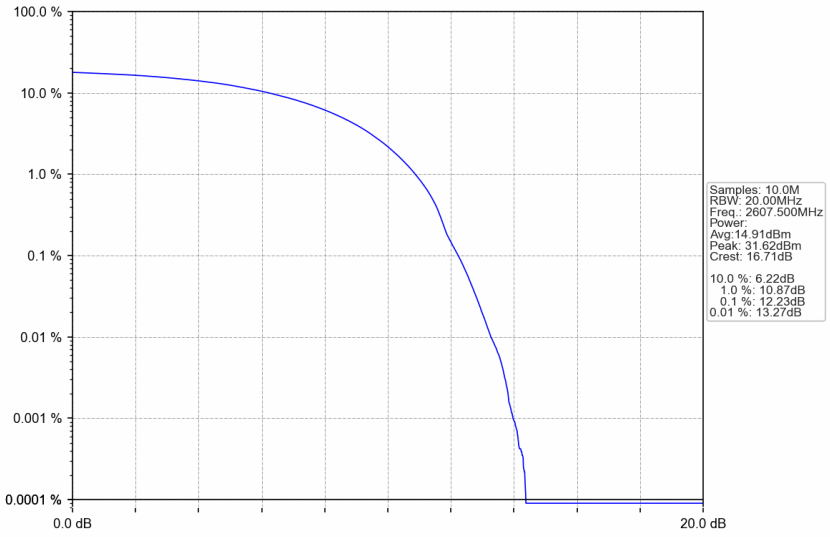
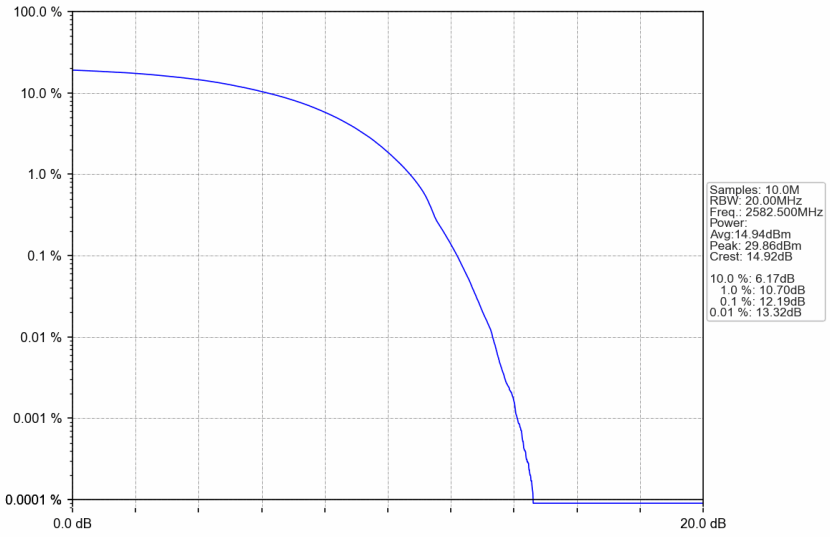
n38_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM 16 QAM_2607.5MHz_Outer_Full



n38_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM 64 QAM_2582.5MHz_Outer_Full



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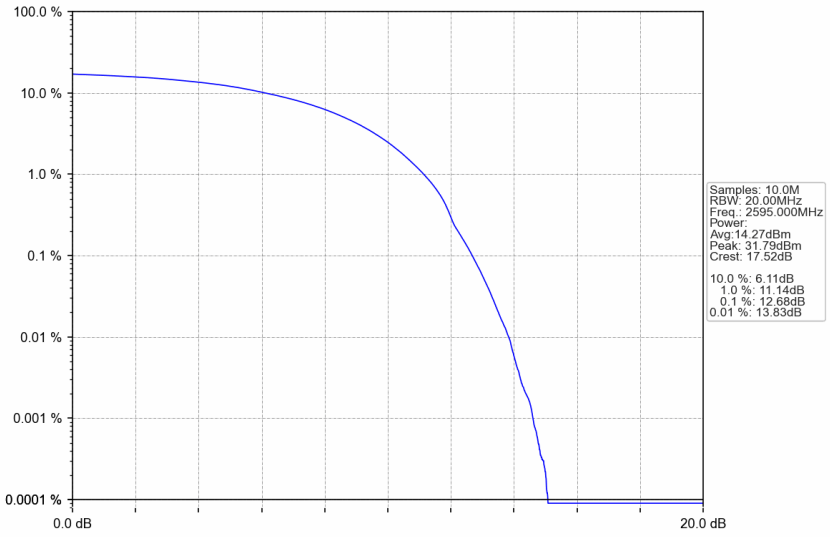
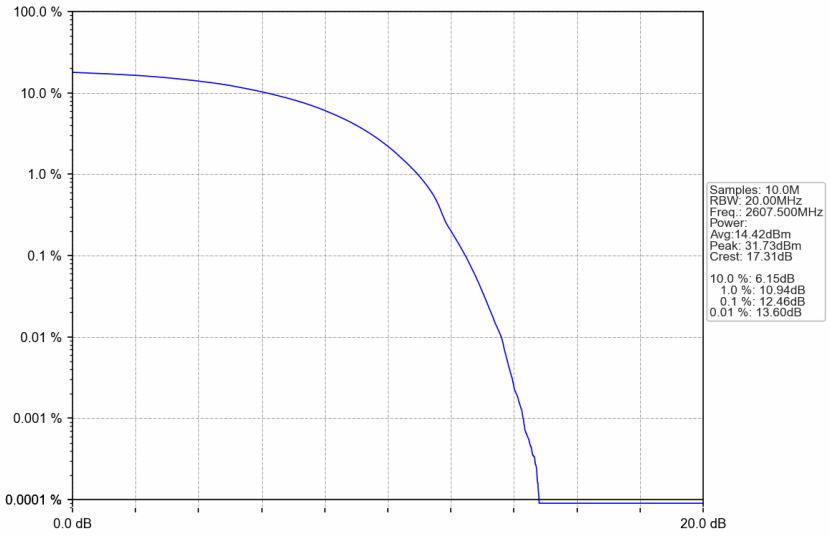
n38_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM 64 QAM_2595MHz_Outer_Full



n38_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM 64 QAM_2607.5MHz_Outer_Full



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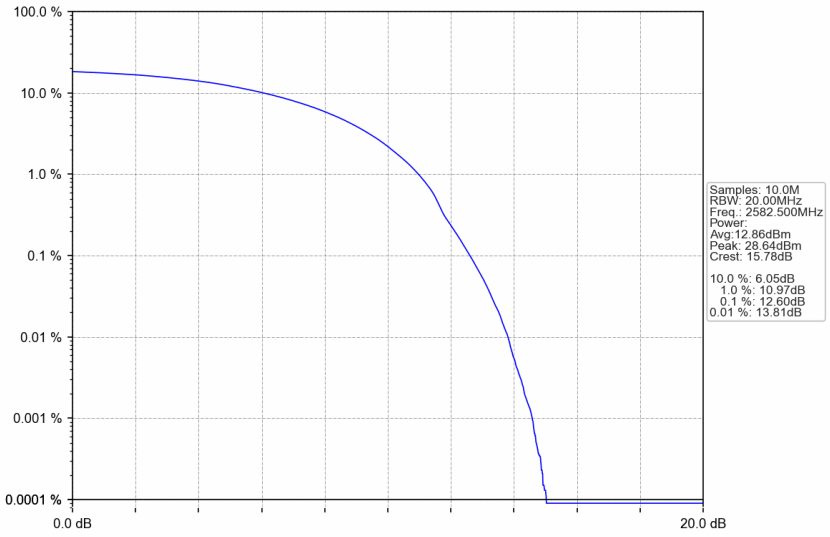
n38_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM 256 QAM_2582.5MHz_Outer_Full



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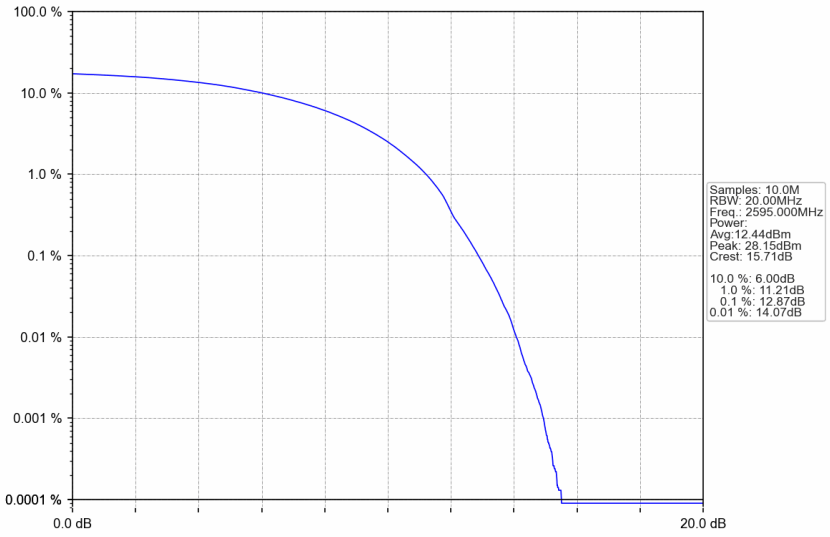

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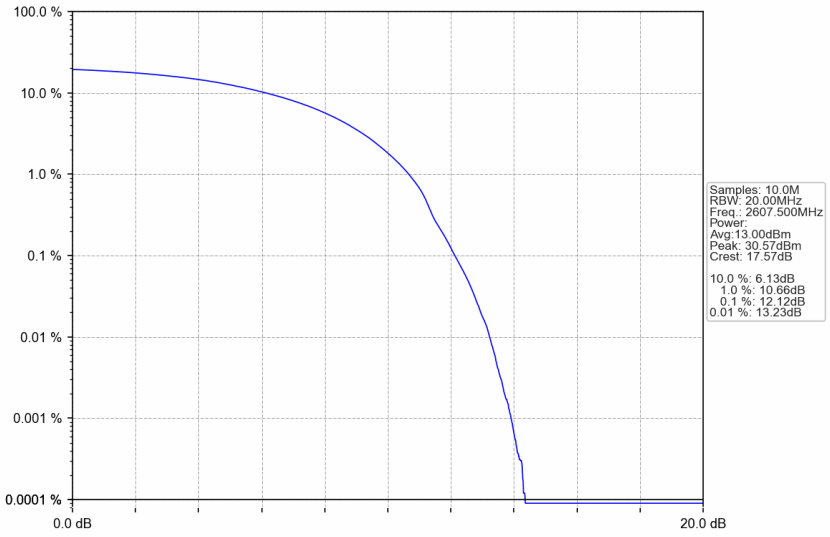
n38_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM 256 QAM_2607.5MHz_Outer_Full



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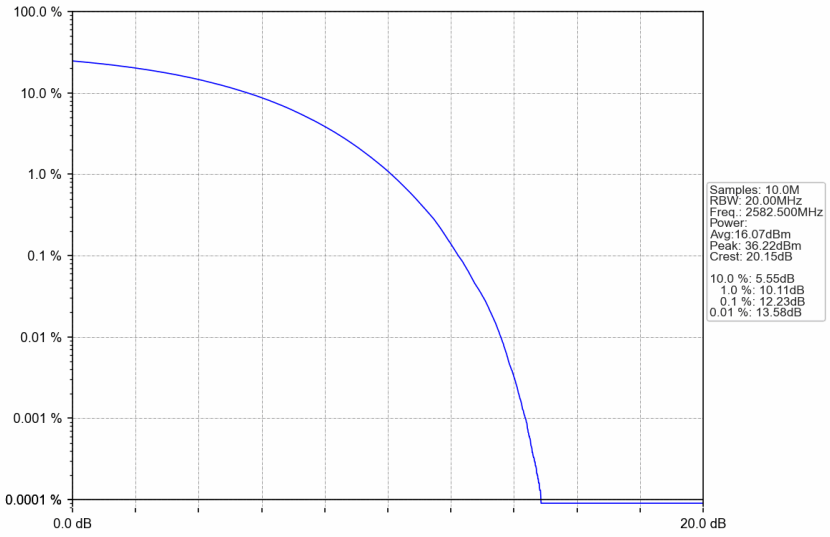

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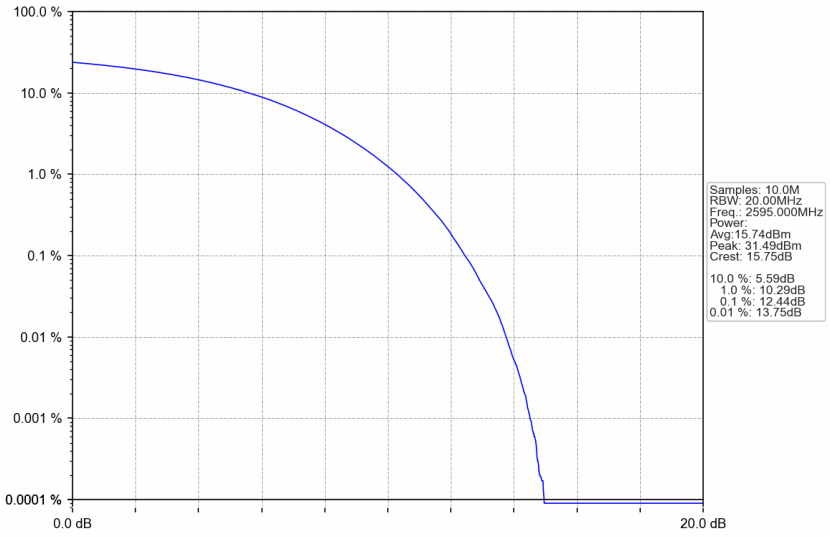

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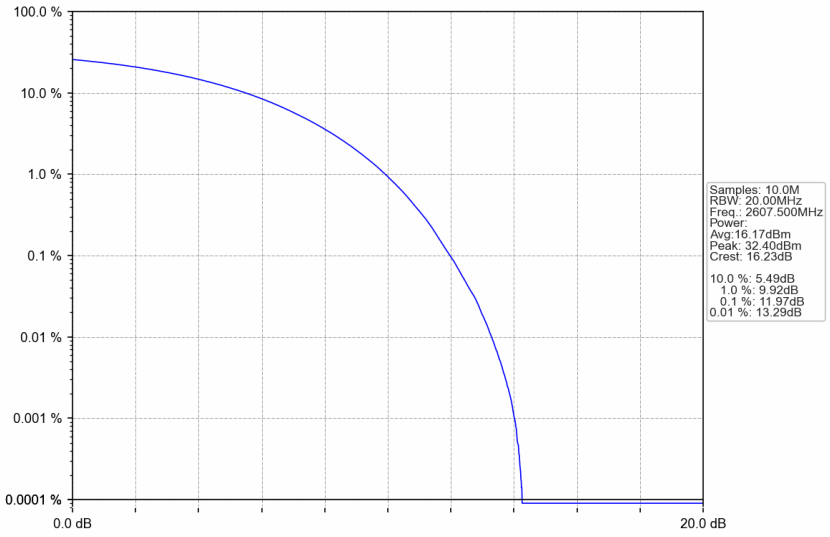

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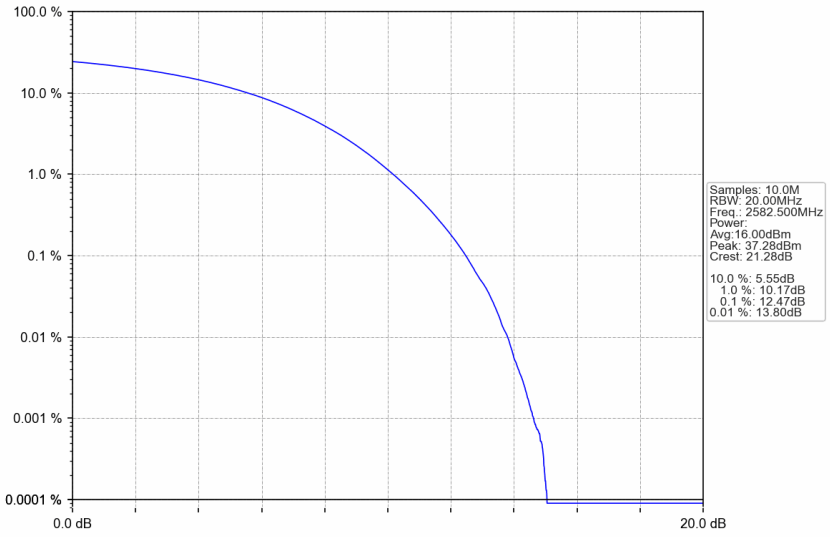
n38_15kHz_SISO_NTNV_25MHz_CP-OFDM 16 QAM_2582.5MHz_Outer_Full



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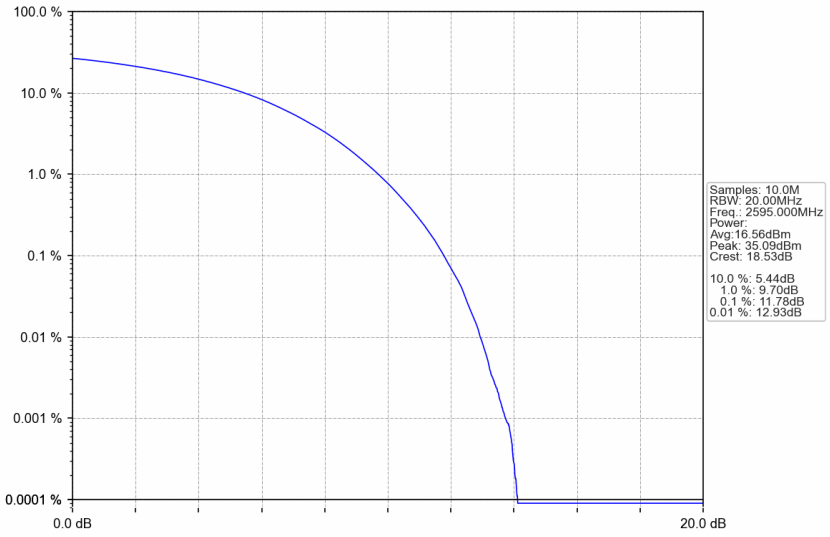

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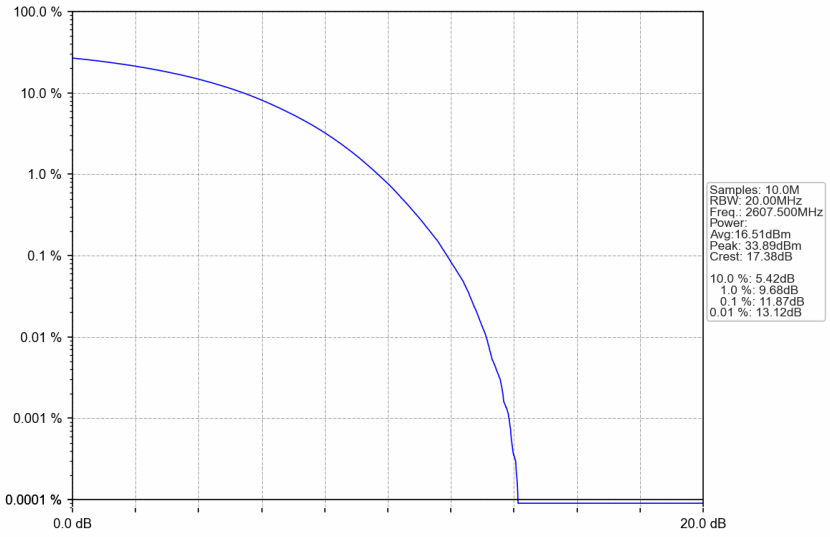

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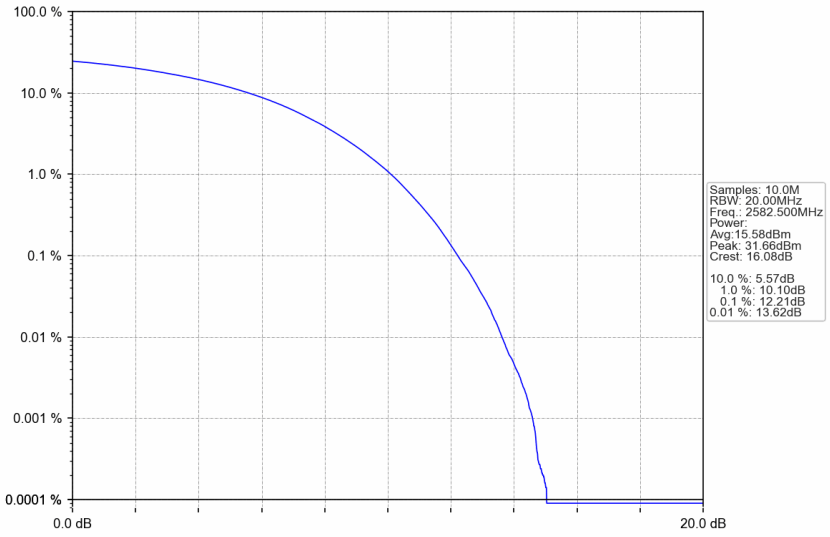

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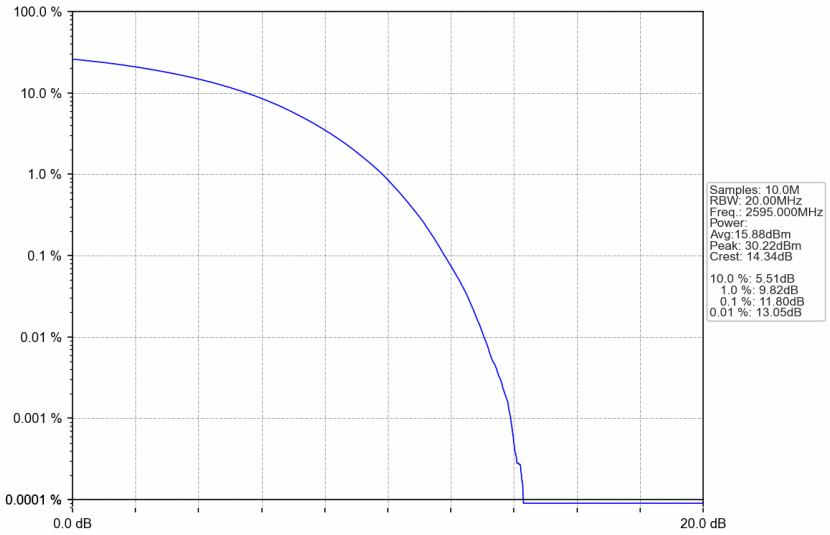

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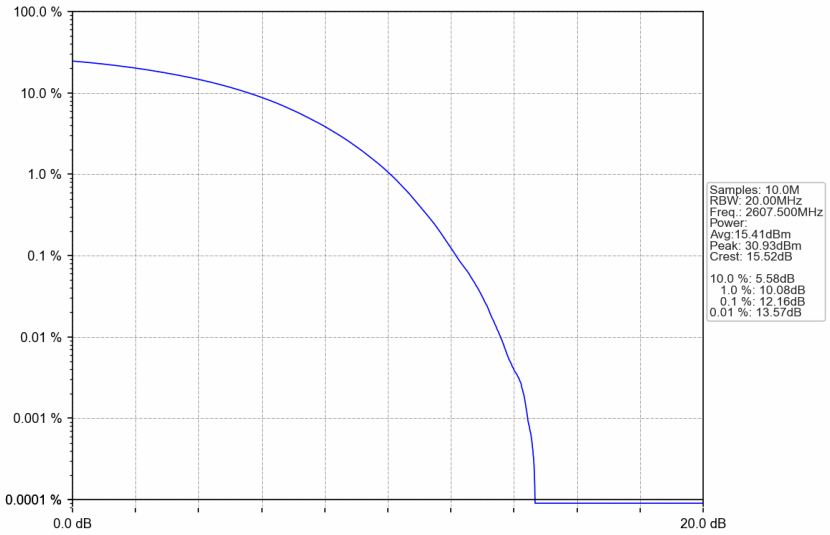

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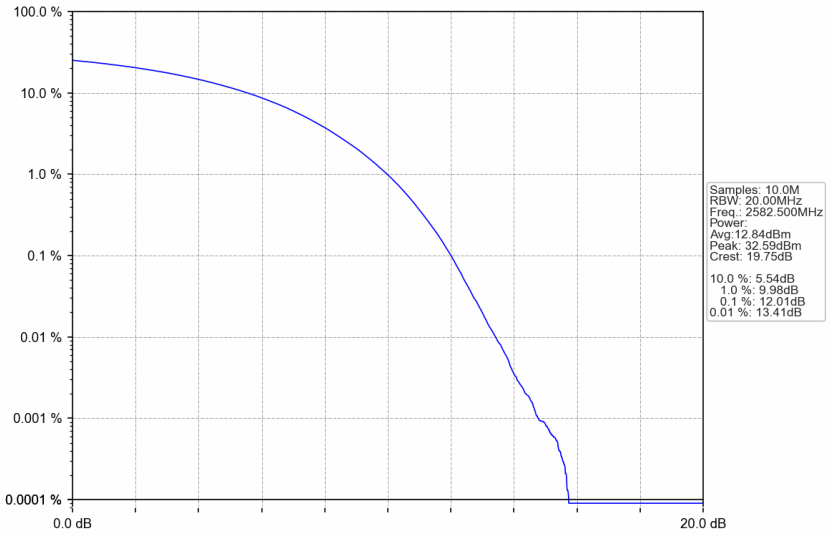

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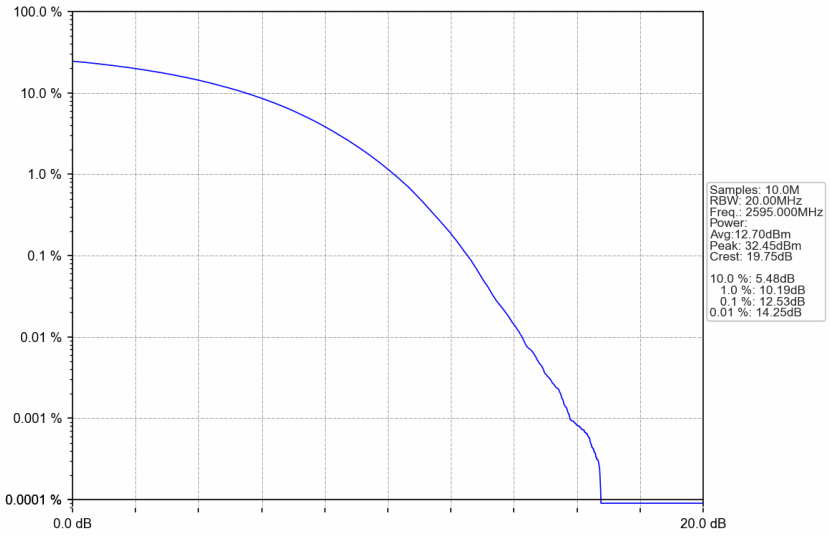

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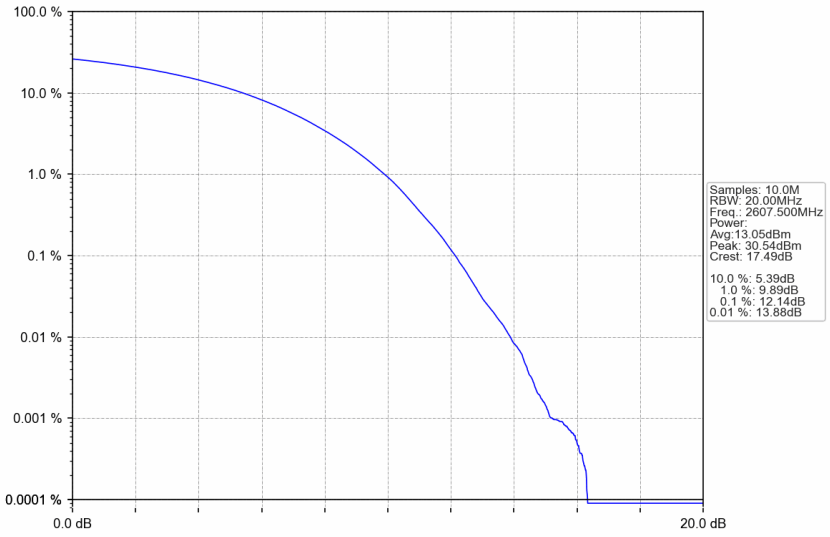
n38_15kHz_SISO_NTNV_25MHz_CP-OFDM 256 QAM_2607.5MHz_Outer_Full



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5.6 15k_SISO_30MHz_NTNV

5.6.1 Test Result

5G NR n38 SCS=15kHz SISO 30MHz NTNV							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2585	Outer_Full	10.44	/	/	<=13	Pass
	2595	Outer_Full	11.20	/	/	<=13	Pass
	2605	Outer_Full	10.35	/	/	<=13	Pass
DFT-s-OFDM QPSK	2585	Outer_Full	11.63	/	/	<=13	Pass
	2595	Outer_Full	12.02	/	/	<=13	Pass
	2605	Outer_Full	11.58	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	2585	Outer_Full	10.57	/	/	<=13	Pass
	2595	Outer_Full	12.74	/	/	<=13	Pass
	2605	Outer_Full	12.86	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	2585	Outer_Full	12.79	/	/	<=13	Pass
	2595	Outer_Full	12.89	/	/	<=13	Pass
	2605	Outer_Full	12.84	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	2585	Outer_Full	10.65	/	/	<=13	Pass
	2595	Outer_Full	10.17	/	/	<=13	Pass
	2605	Outer_Full	12.88	/	/	<=13	Pass
CP-OFDM QPSK	2585	Outer_Full	12.05	/	/	<=13	Pass
	2595	Outer_Full	11.92	/	/	<=13	Pass
	2605	Outer_Full	12.03	/	/	<=13	Pass
CP-OFDM 16 QAM	2585	Outer_Full	11.85	/	/	<=13	Pass
	2595	Outer_Full	11.92	/	/	<=13	Pass
	2605	Outer_Full	11.63	/	/	<=13	Pass
CP-OFDM 64 QAM	2585	Outer_Full	12.00	/	/	<=13	Pass
	2595	Outer_Full	11.66	/	/	<=13	Pass
	2605	Outer_Full	11.67	/	/	<=13	Pass
CP-OFDM 256 QAM	2585	Outer_Full	12.32	/	/	<=13	Pass
	2595	Outer_Full	12.34	/	/	<=13	Pass
	2605	Outer_Full	12.32	/	/	<=13	Pass

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5.6.2 Test Graph

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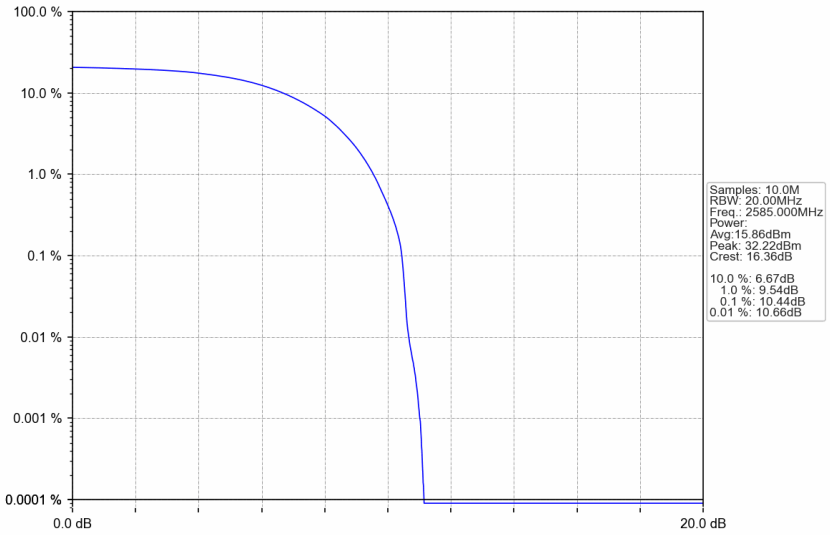

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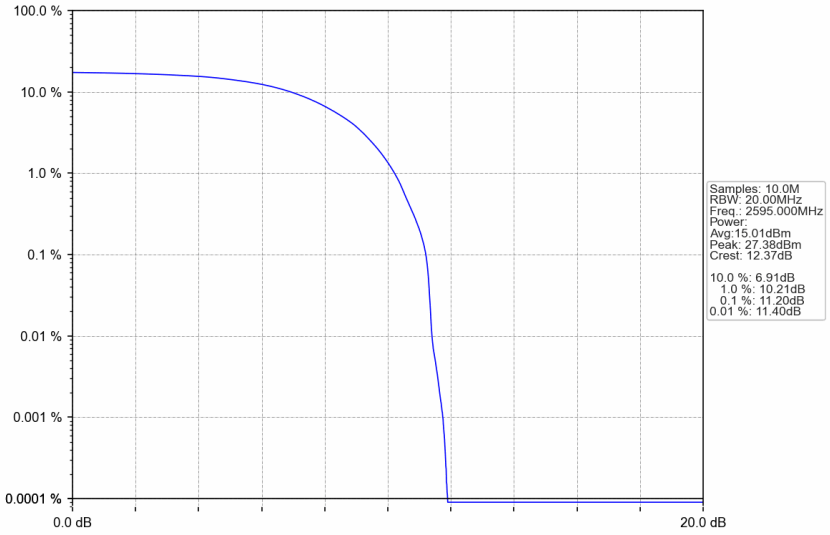

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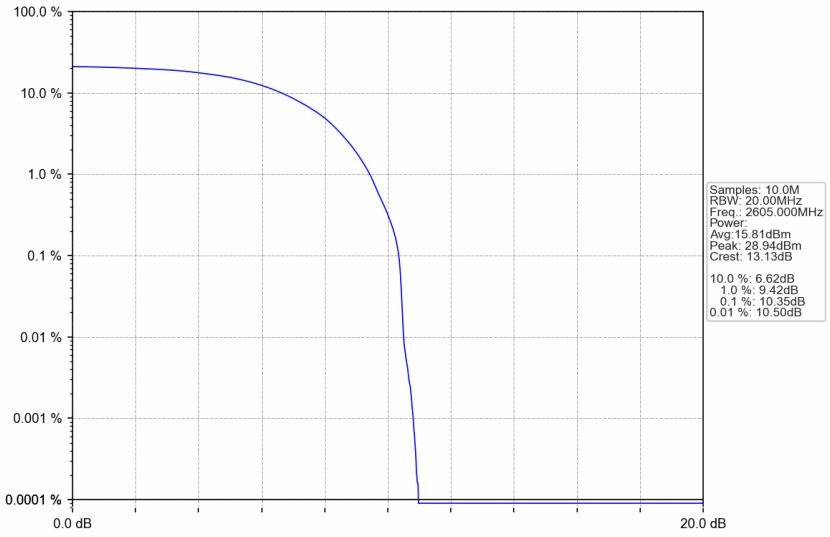

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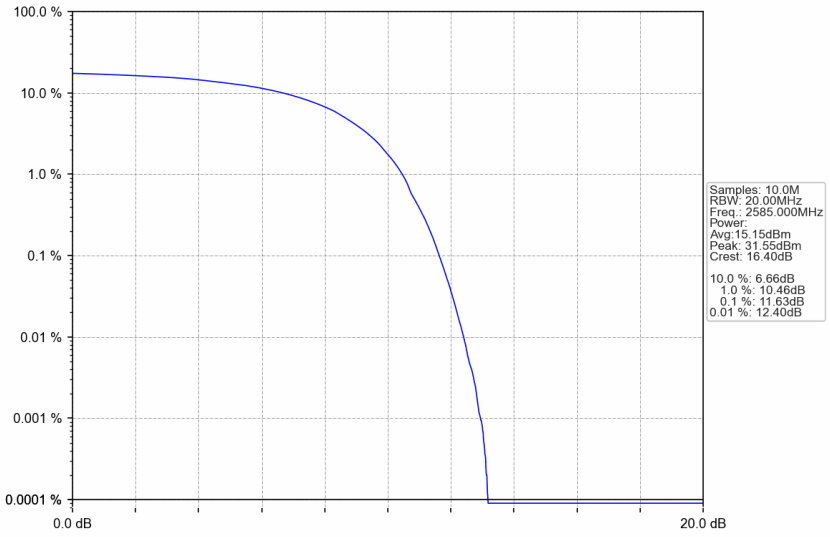

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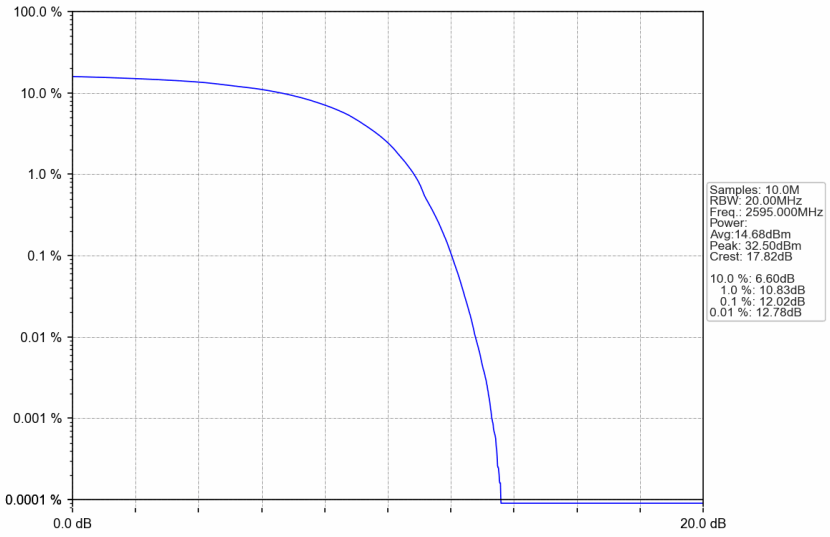

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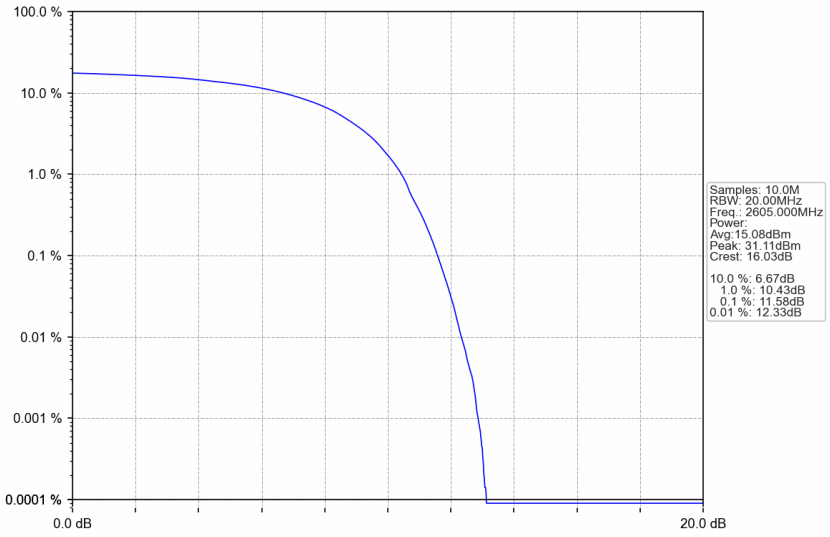

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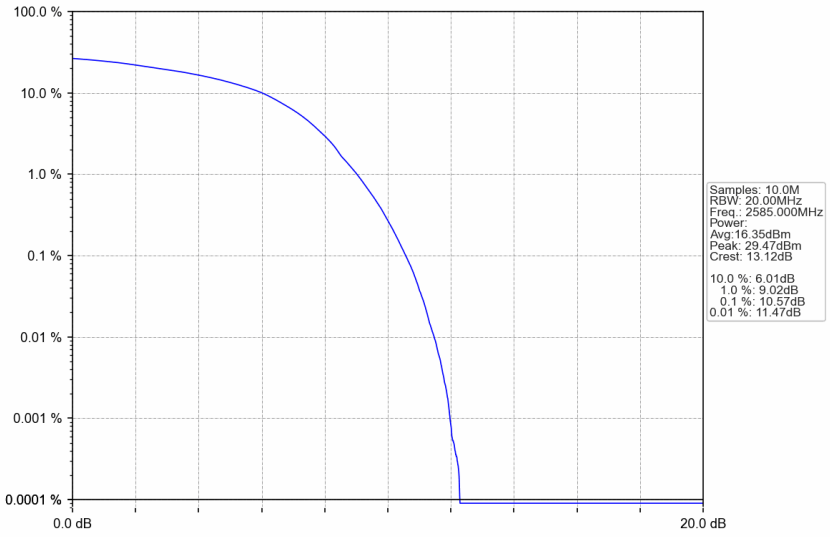

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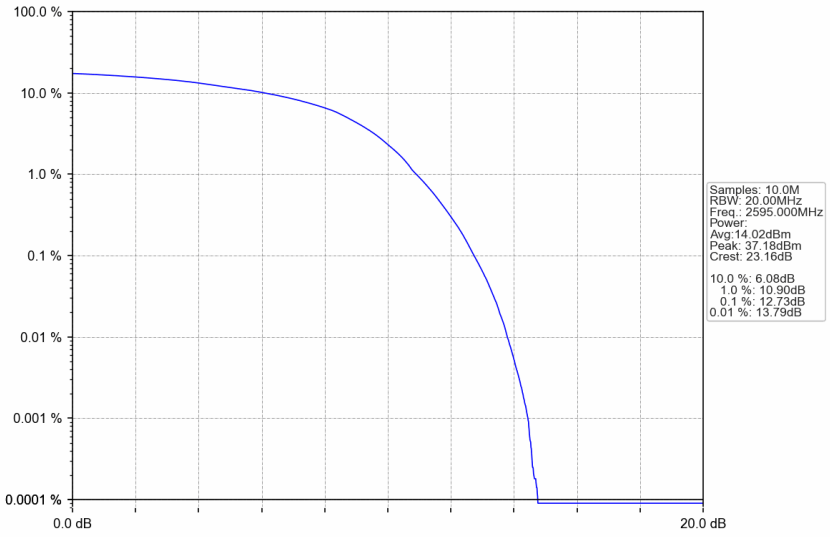

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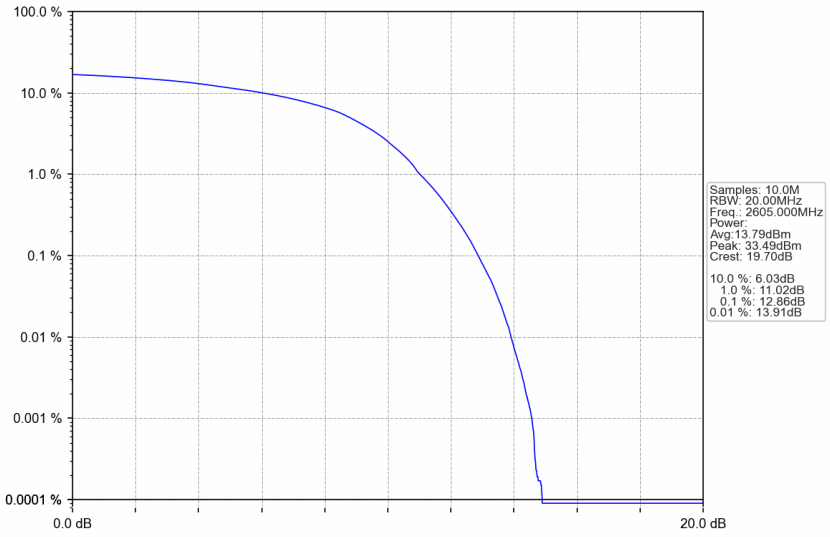

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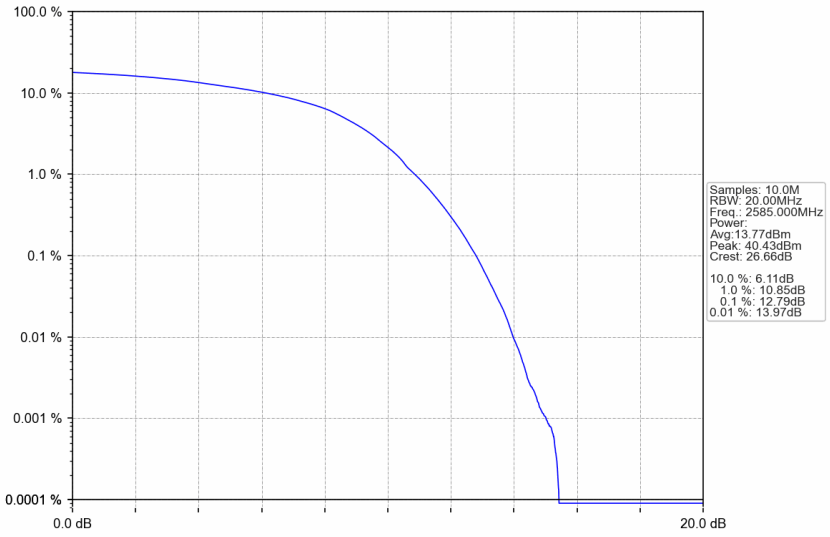

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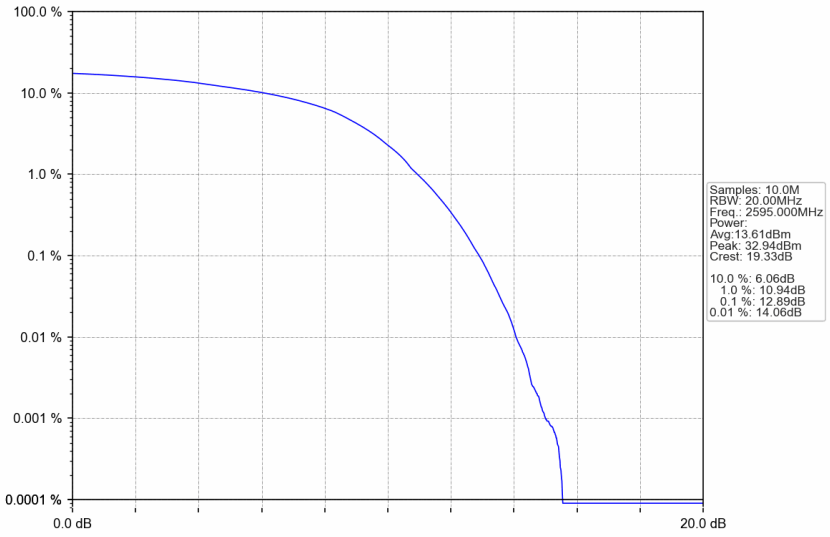
n38_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM 64 QAM_2595MHz_Outer_Full



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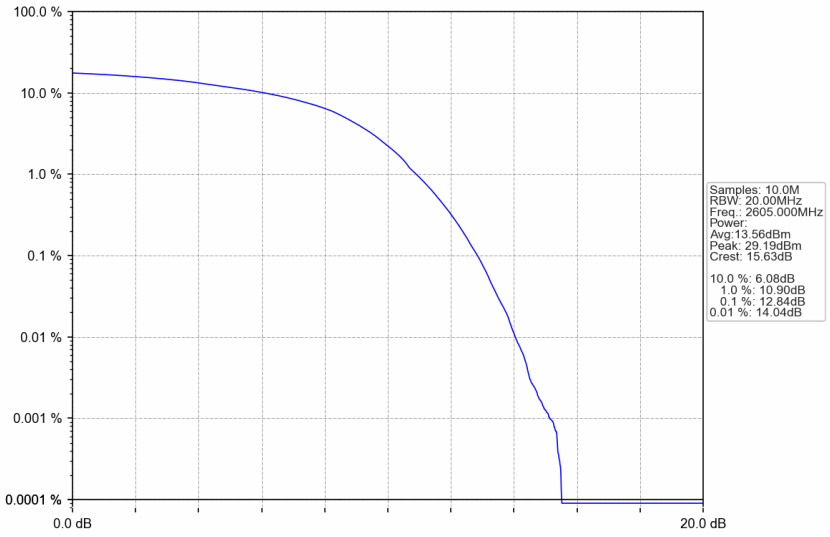

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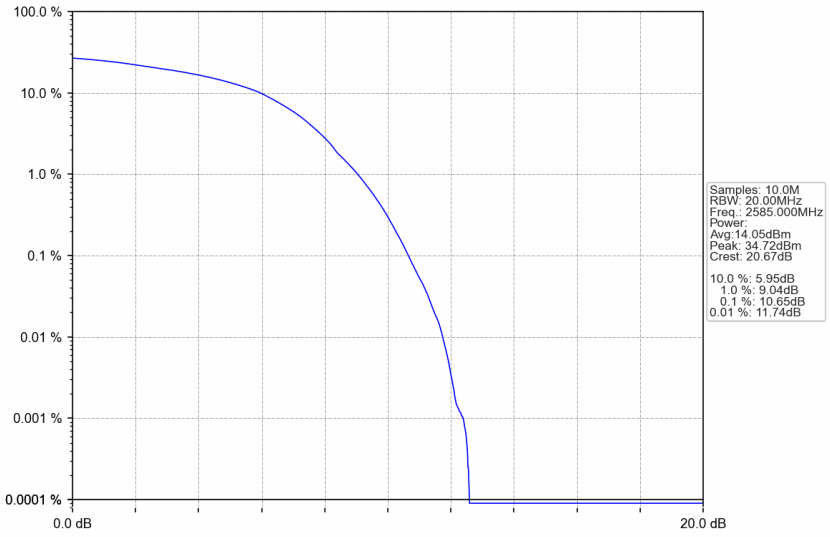

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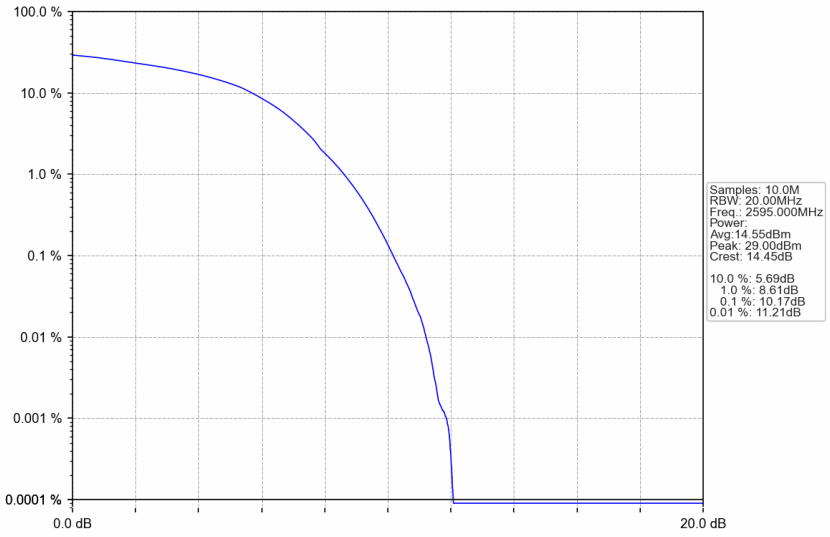

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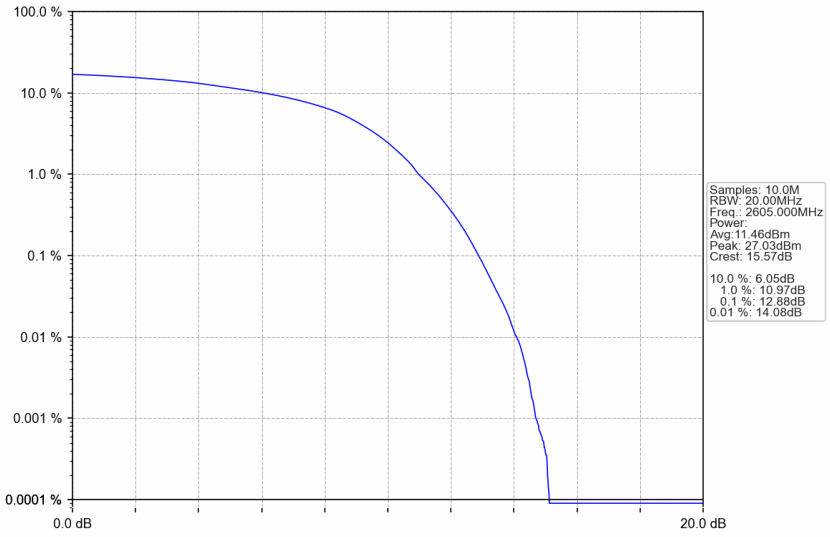
n38_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM 256 QAM_2605MHz_Outer_Full



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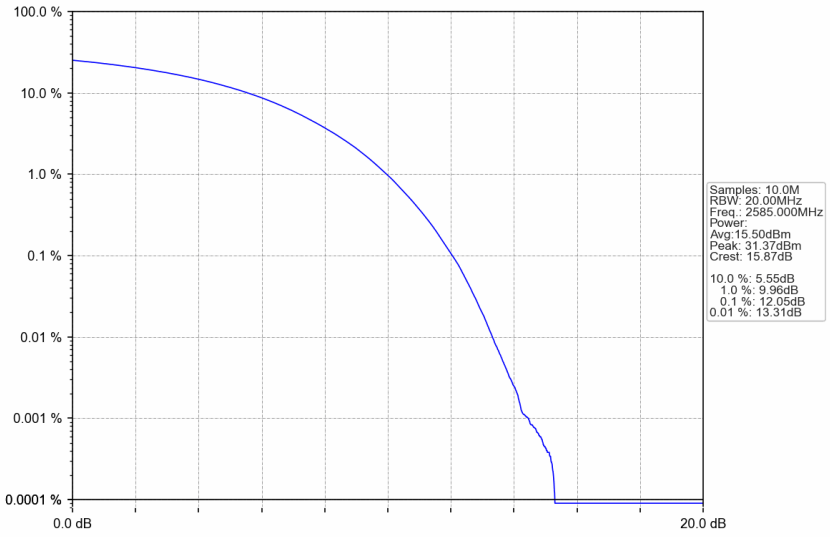

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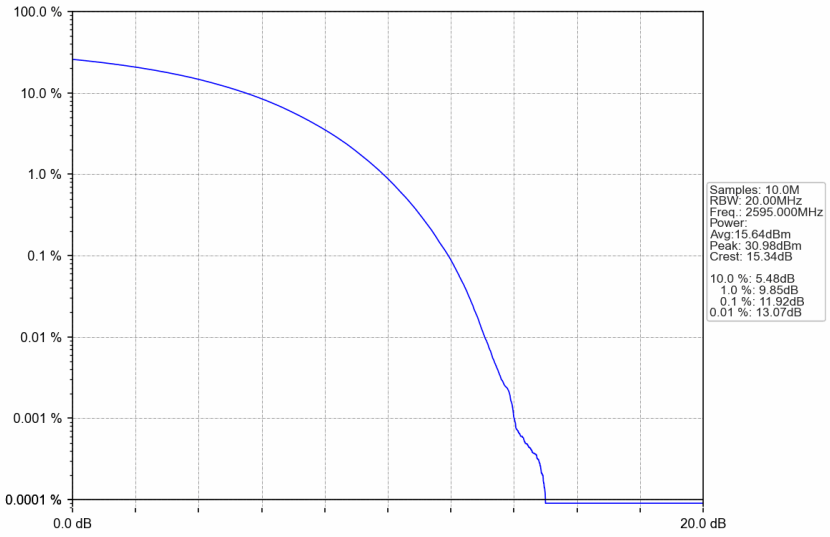

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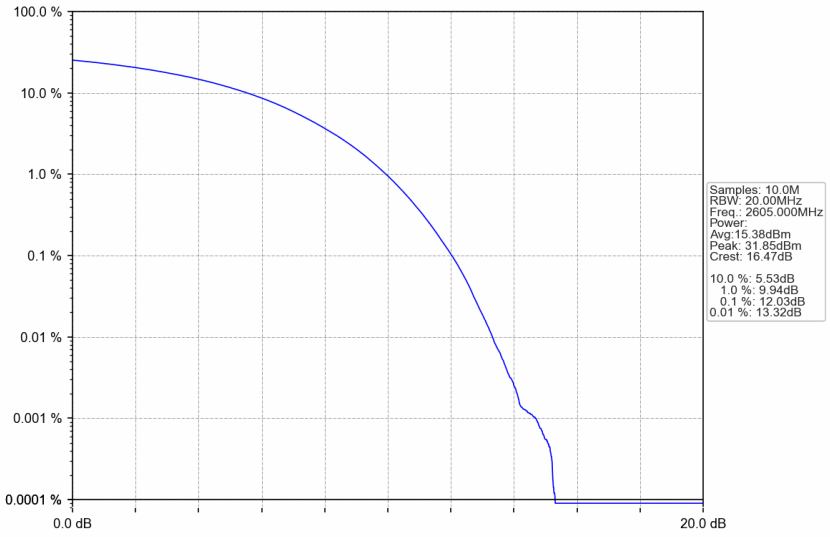

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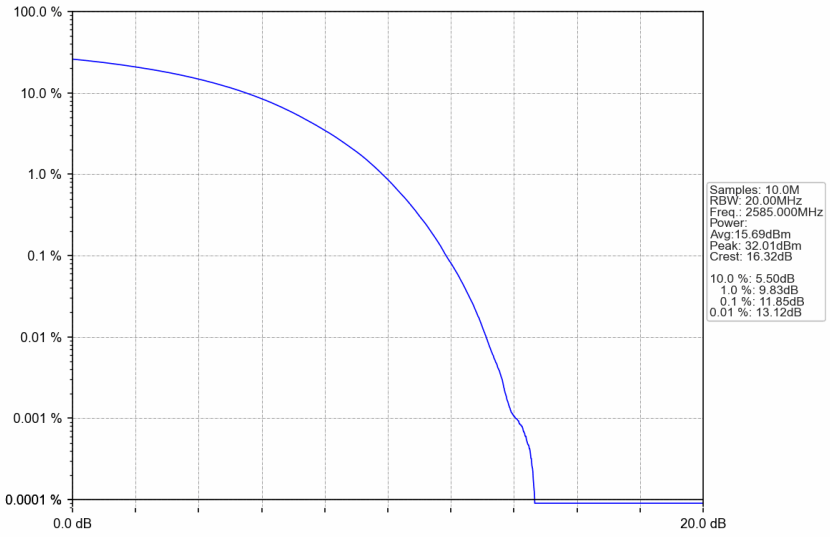

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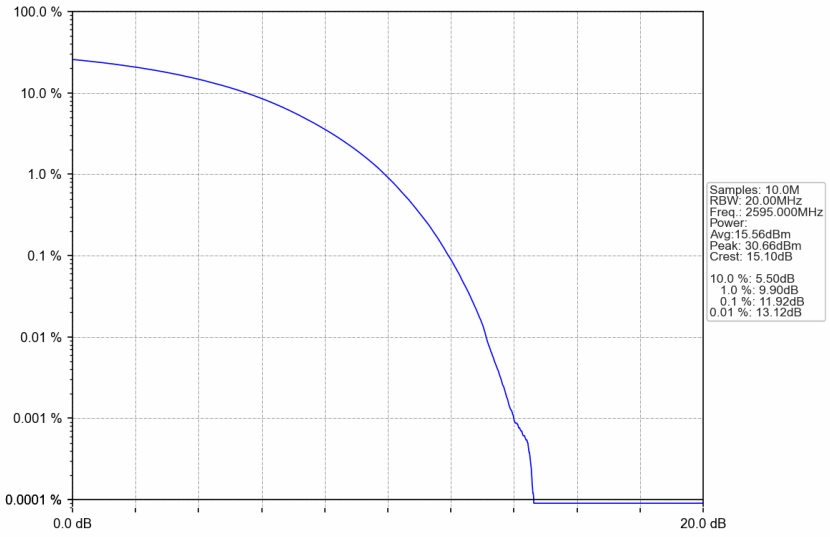

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