

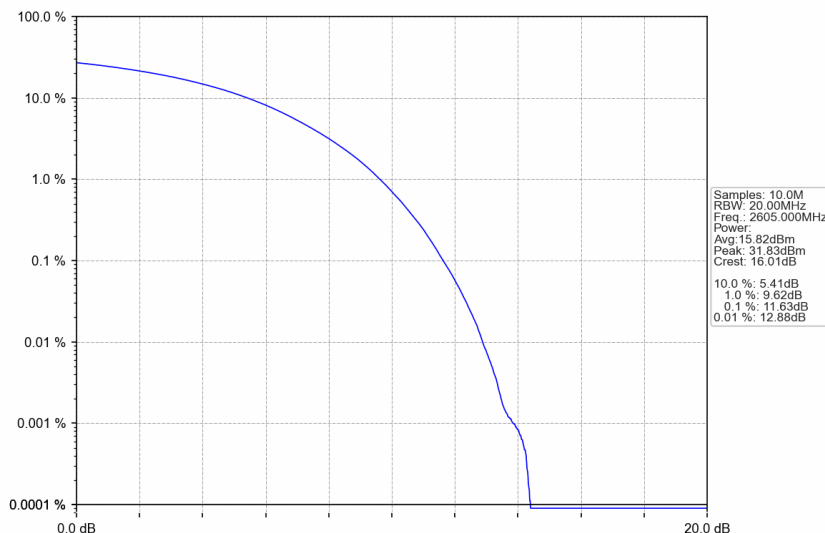


Report No.: SEWM2311000456RG02

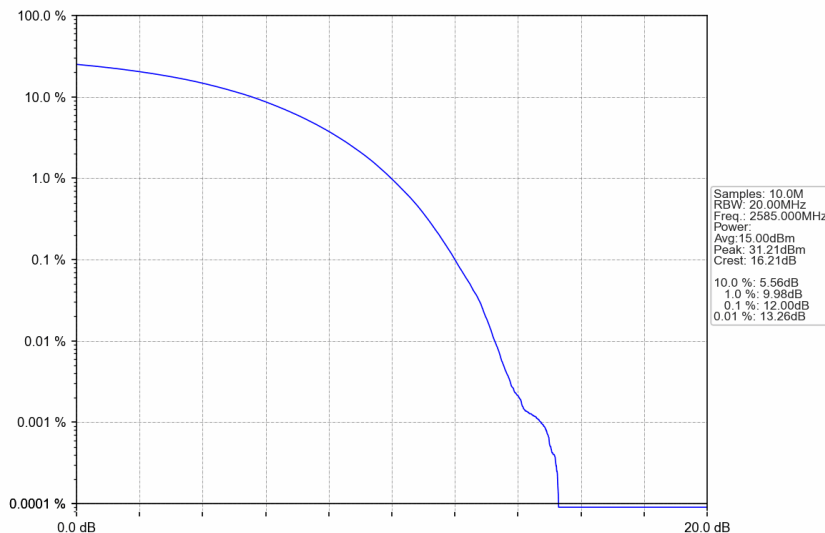
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n38_15kHz_SISO_NTNV_30MHz_CP-OFDM 16 QAM_2605MHz_Outer_Full



n38_15kHz_SISO_NTNV_30MHz_CP-OFDM 64 QAM_2585MHz_Outer_Full



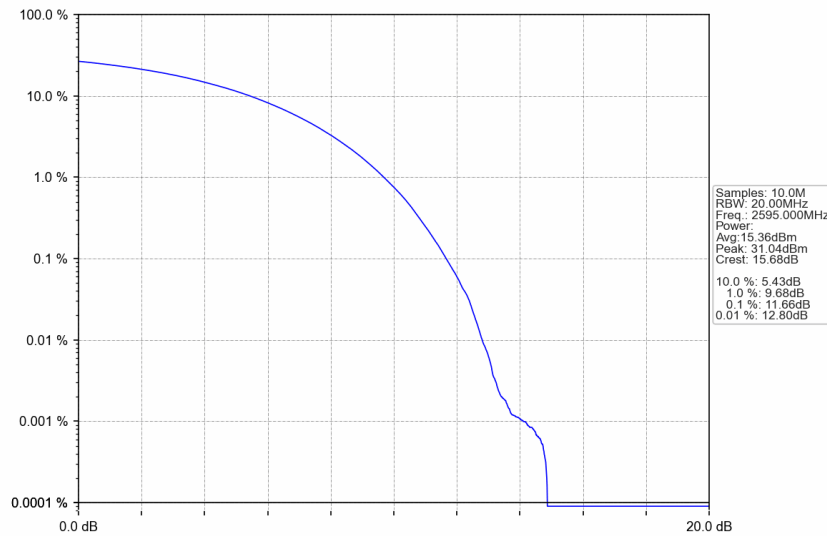
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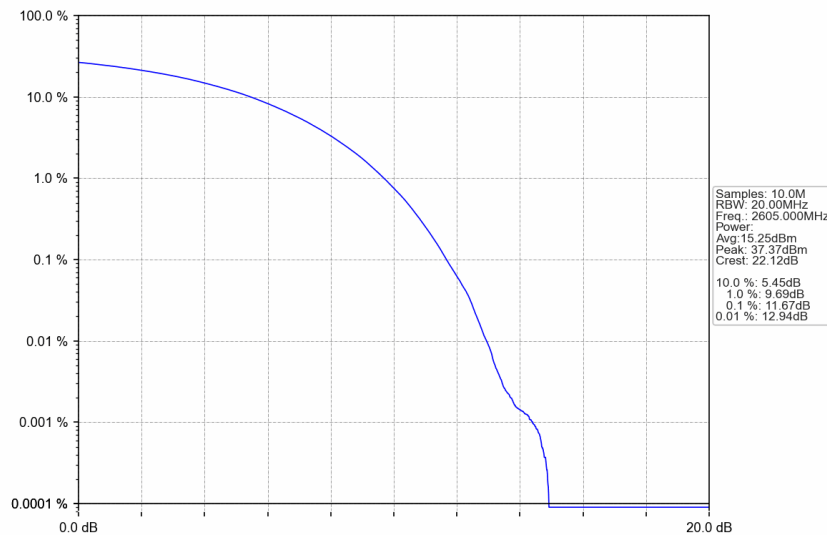
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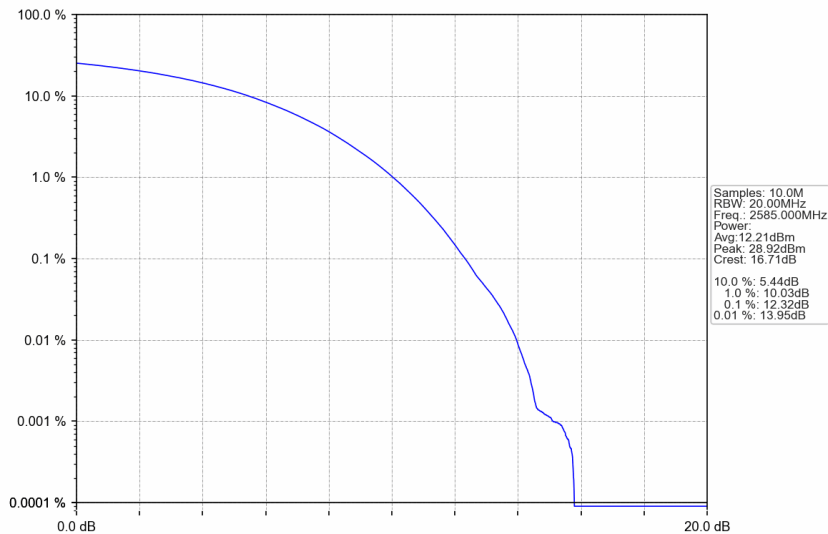
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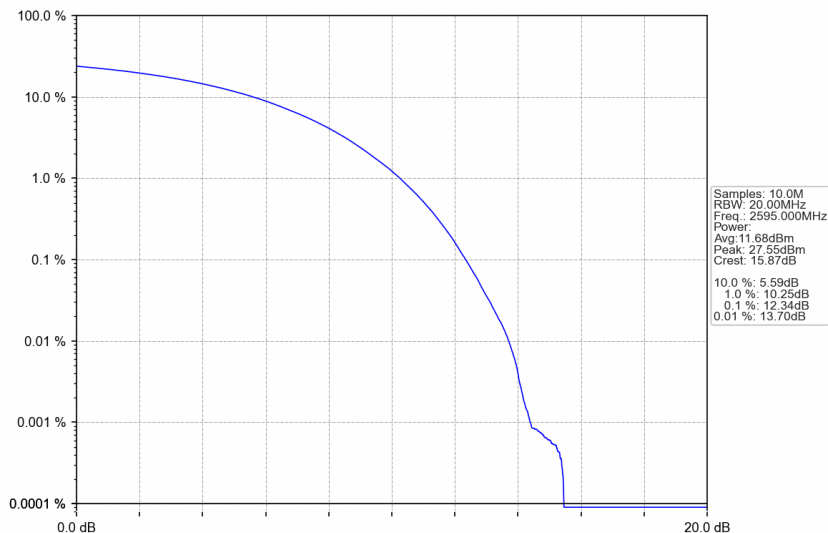
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n38_15kHz_SISO_NTNV_30MHz_CP-OFDM 256 QAM_2585MHz_Outer_Full



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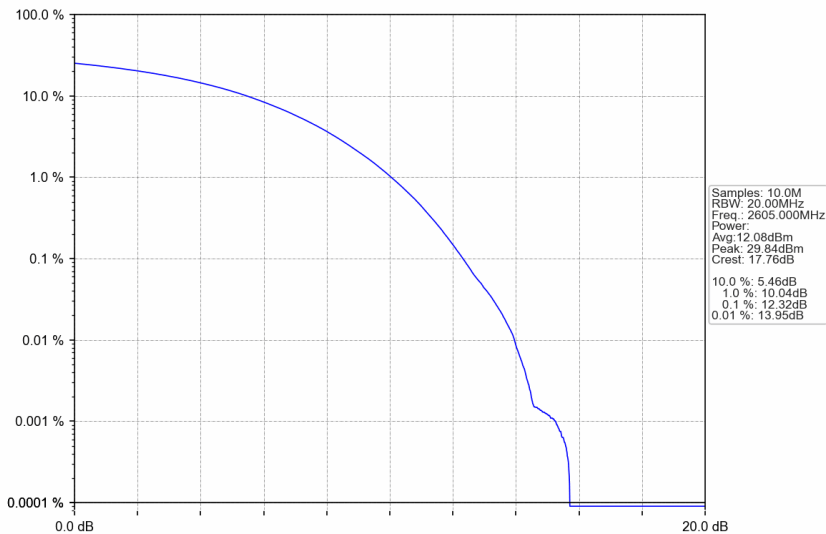


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5.7 15k_SISO_40MHz_NTNV

5.7.1 Test Result

5G NR n38 SCS=15kHz SISO 40MHz NTV							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2590	Outer_Full	10.94	/	/	<=13	Pass
	2595	Outer_Full	10.79	/	/	<=13	Pass
	2600	Outer_Full	11.19	/	/	<=13	Pass
DFT-s-OFDM QPSK	2590	Outer_Full	12.37	/	/	<=13	Pass
	2595	Outer_Full	12.12	/	/	<=13	Pass
	2600	Outer_Full	12.36	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	2590	Outer_Full	10.84	/	/	<=13	Pass
	2595	Outer_Full	10.66	/	/	<=13	Pass
	2600	Outer_Full	11.04	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	2590	Outer_Full	12.99	/	/	<=13	Pass
	2595	Outer_Full	10.70	/	/	<=13	Pass
	2600	Outer_Full	10.87	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	2590	Outer_Full	10.60	/	/	<=13	Pass
	2595	Outer_Full	11.02	/	/	<=13	Pass
	2600	Outer_Full	10.81	/	/	<=13	Pass
CP-OFDM QPSK	2590	Outer_Full	12.37	/	/	<=13	Pass
	2595	Outer_Full	11.91	/	/	<=13	Pass
	2600	Outer_Full	12.04	/	/	<=13	Pass
CP-OFDM 16 QAM	2590	Outer_Full	11.98	/	/	<=13	Pass
	2595	Outer_Full	11.48	/	/	<=13	Pass
	2600	Outer_Full	12.37	/	/	<=13	Pass
CP-OFDM 64 QAM	2590	Outer_Full	11.64	/	/	<=13	Pass
	2595	Outer_Full	11.89	/	/	<=13	Pass
	2600	Outer_Full	12.31	/	/	<=13	Pass
CP-OFDM 256 QAM	2590	Outer_Full	12.19	/	/	<=13	Pass
	2595	Outer_Full	12.43	/	/	<=13	Pass
	2600	Outer_Full	12.31	/	/	<=13	Pass

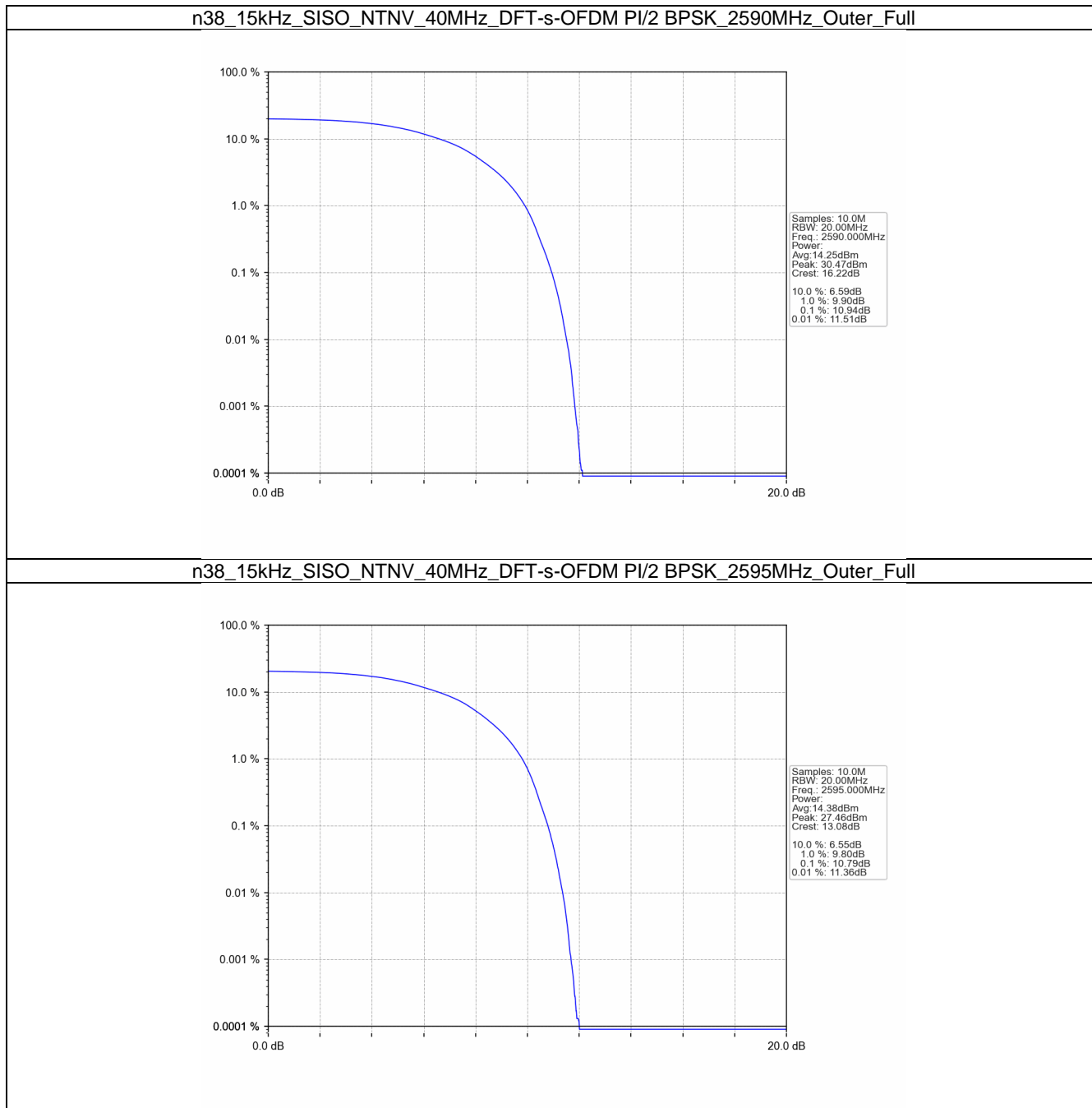


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5.7.2 Test Graph

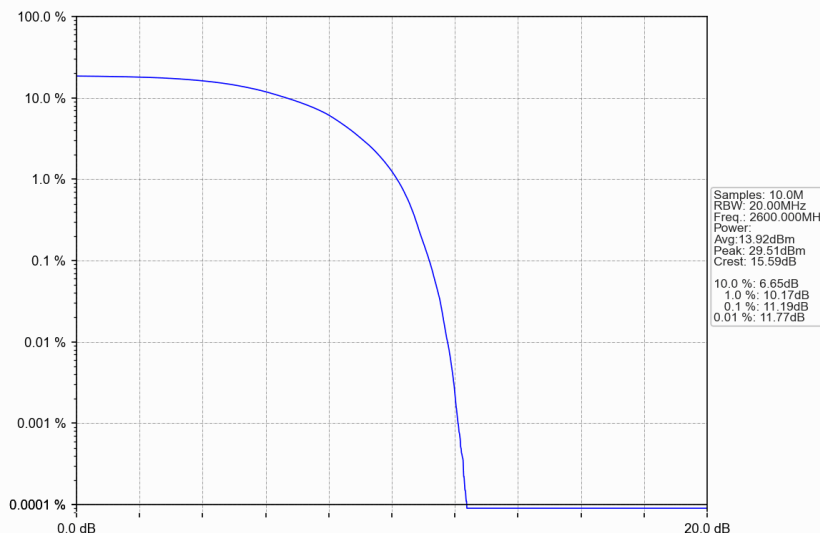


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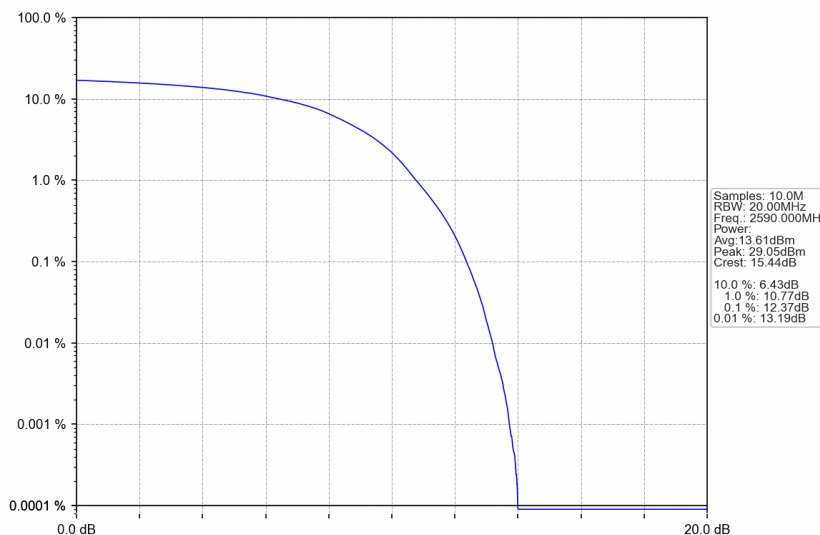
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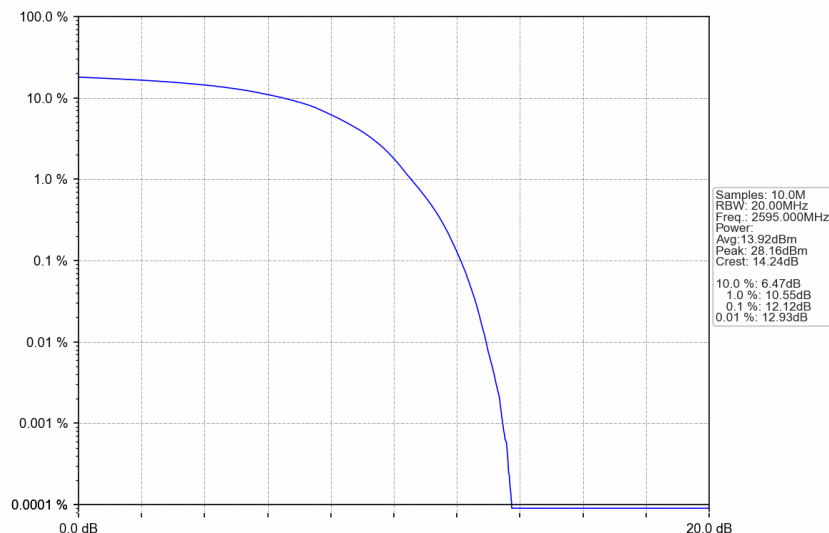
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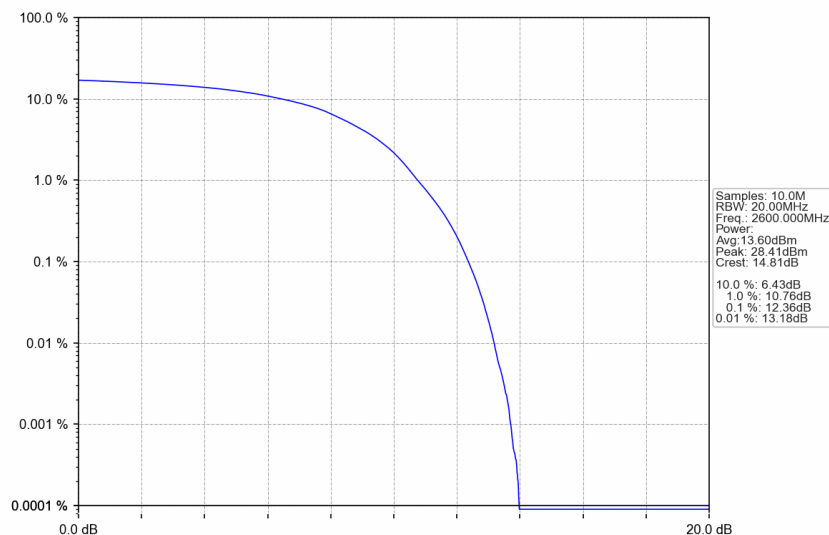
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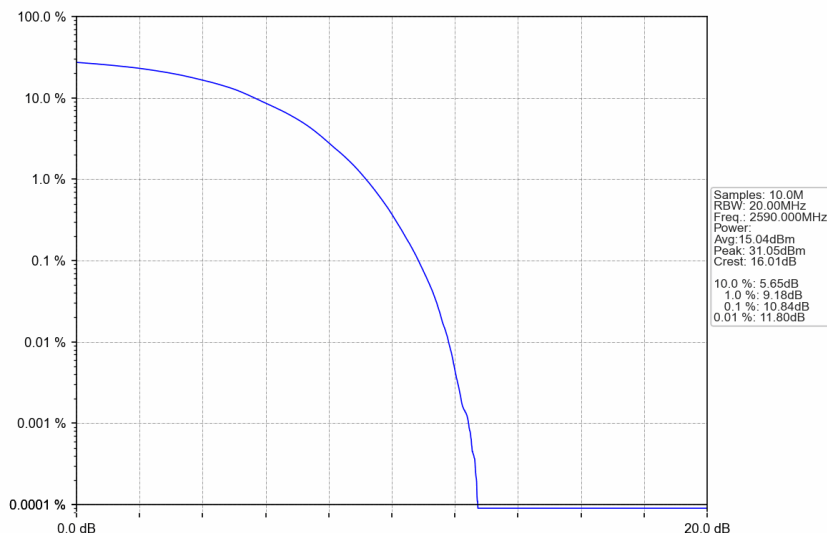
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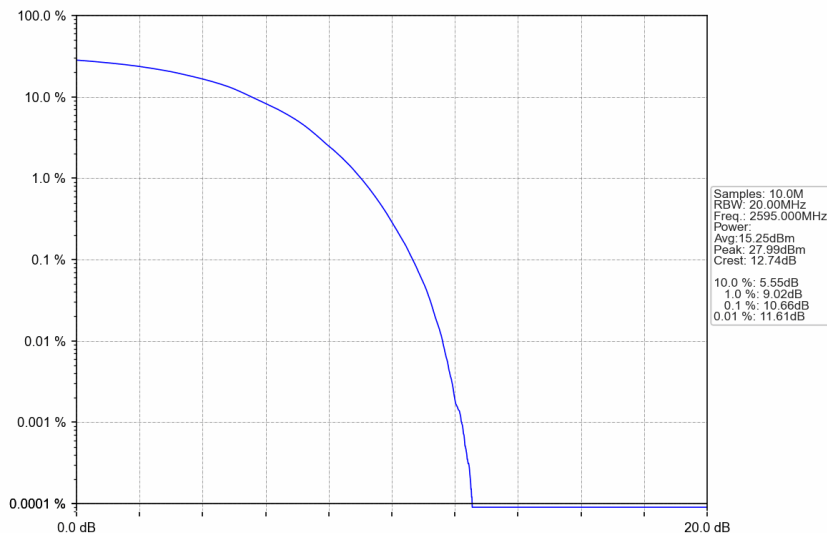
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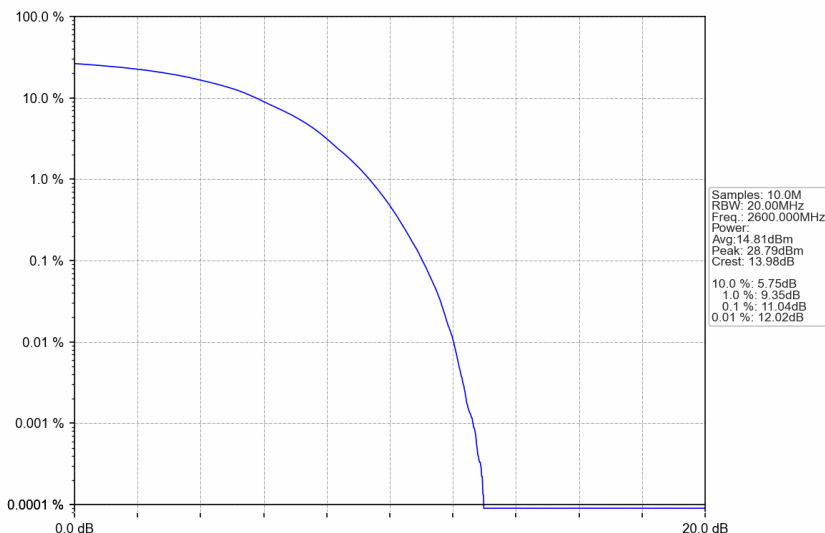
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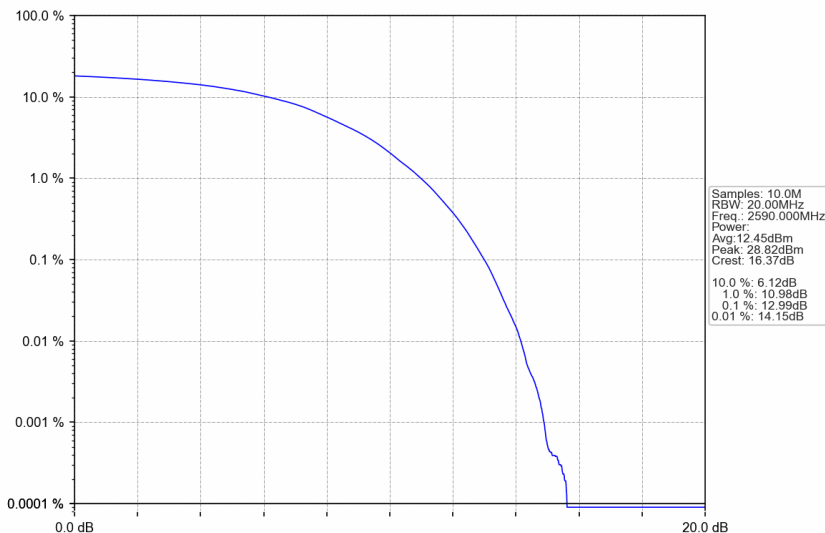
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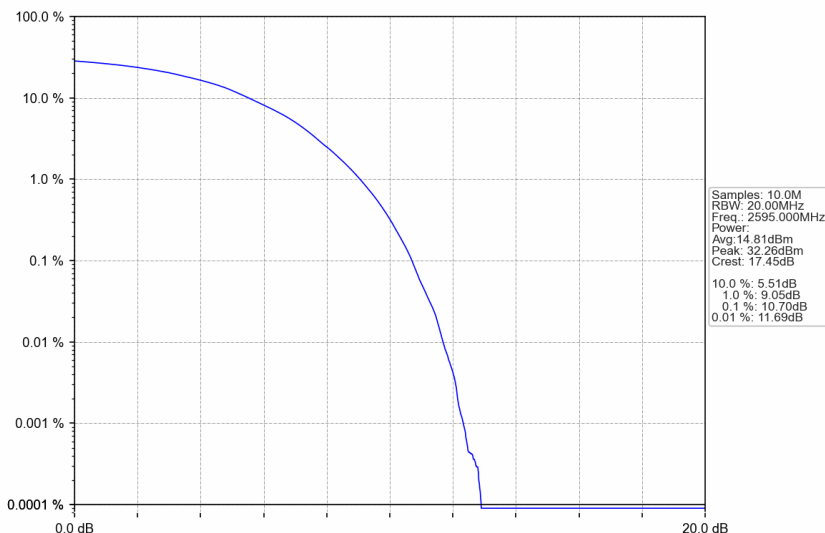


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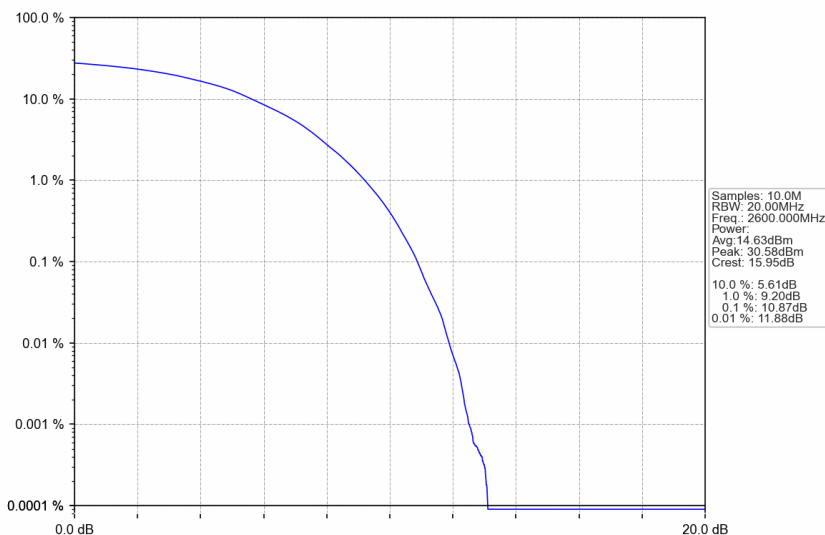
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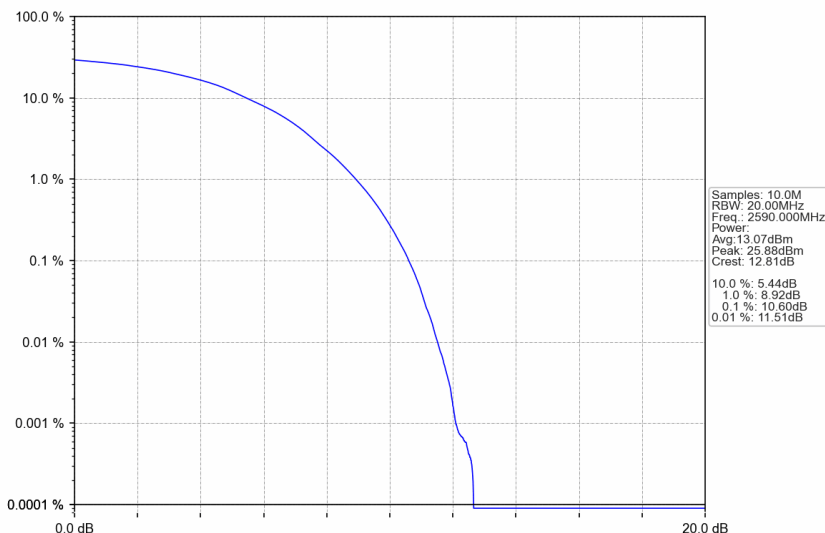
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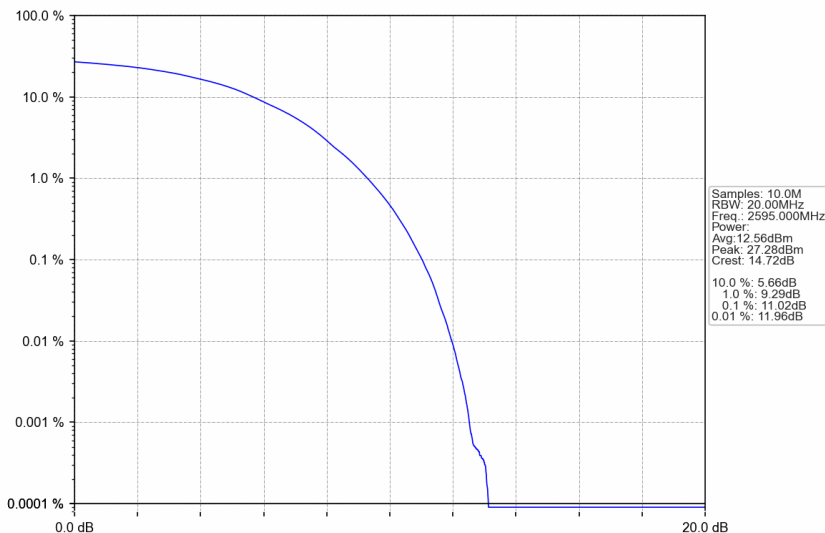
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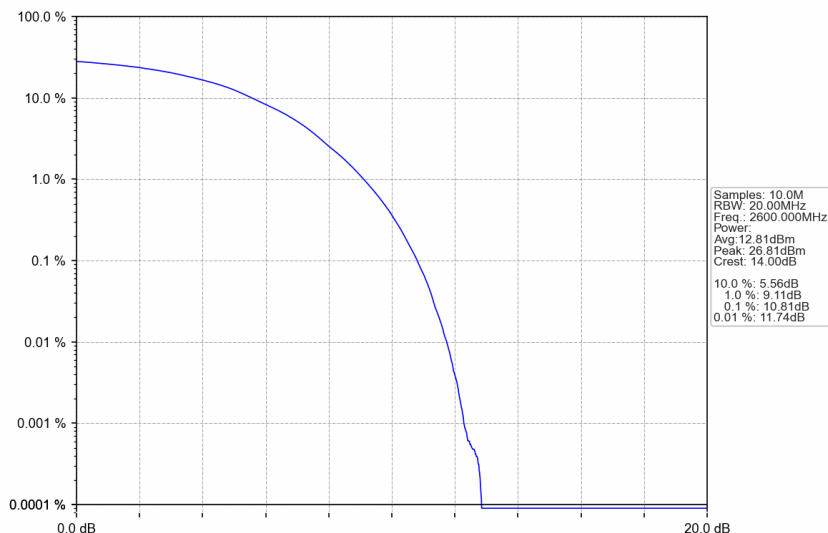


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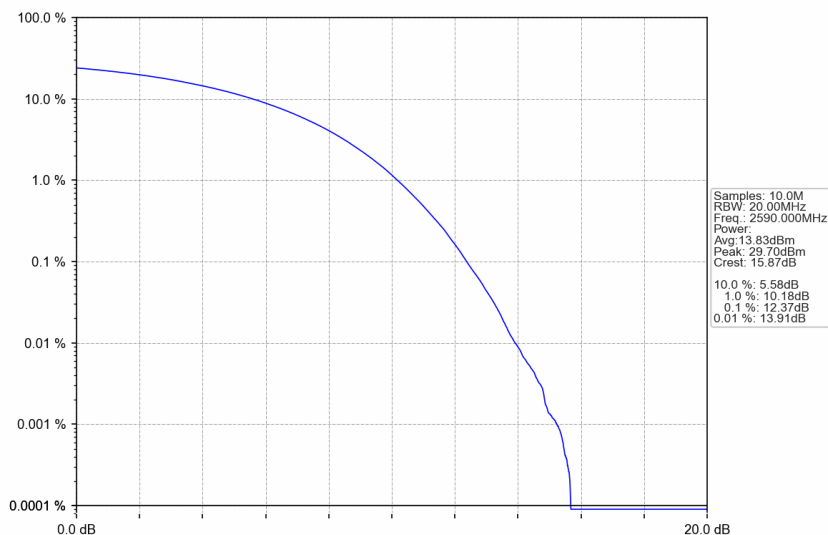
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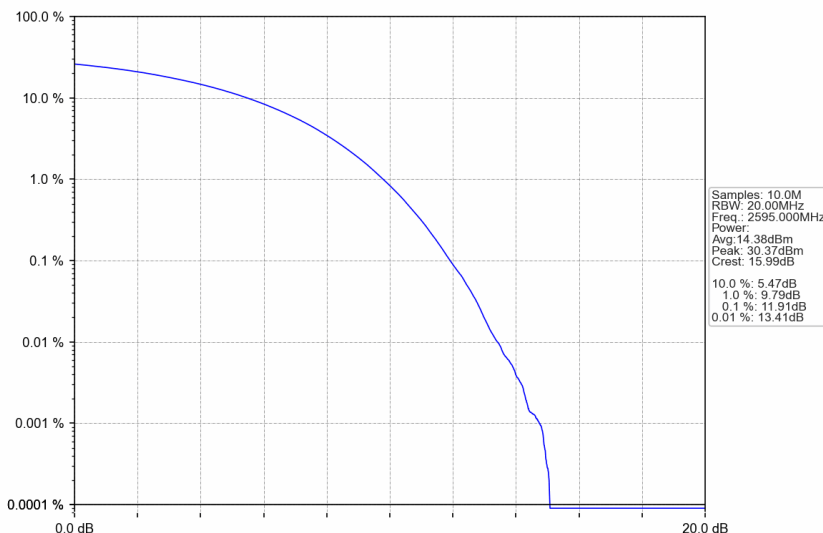
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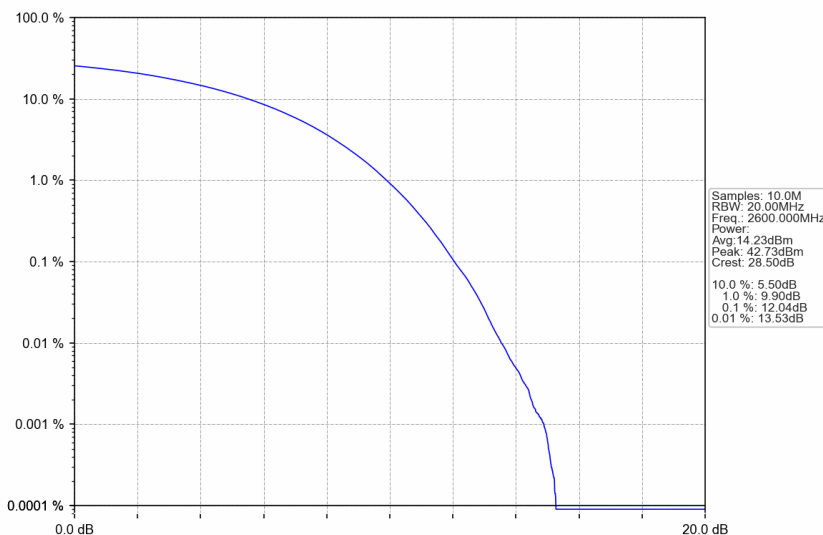
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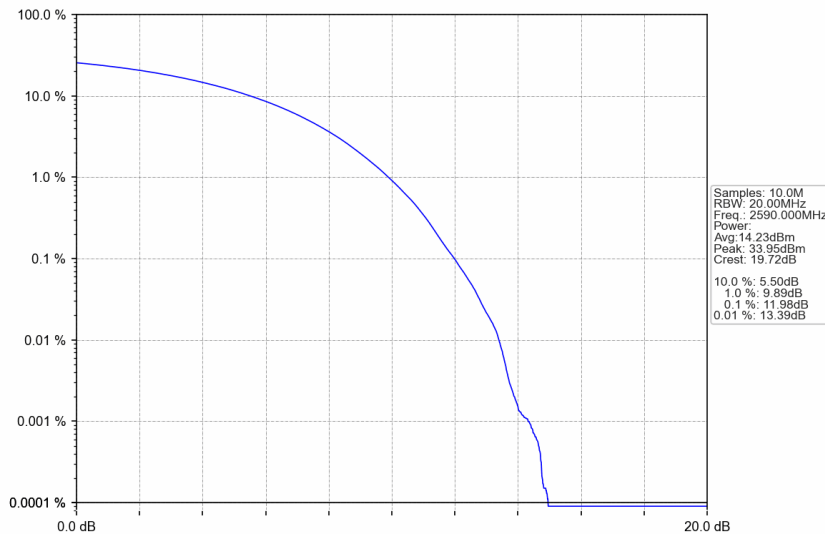
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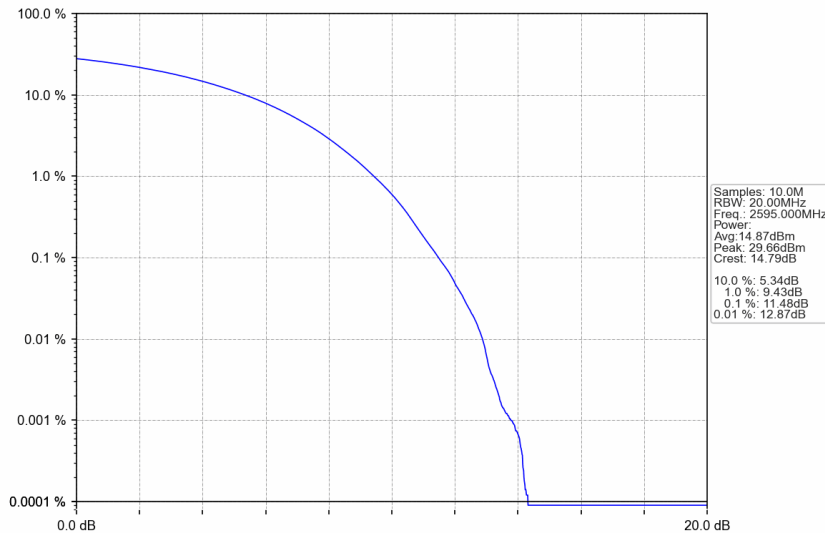
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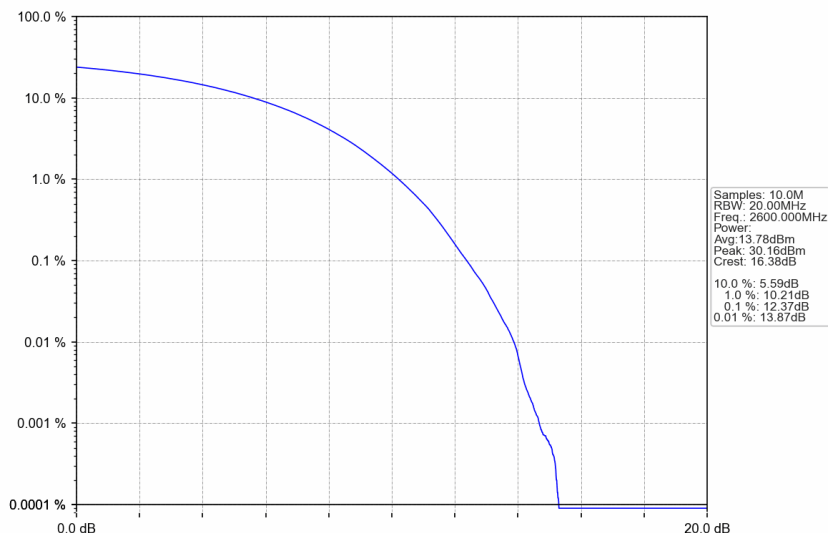


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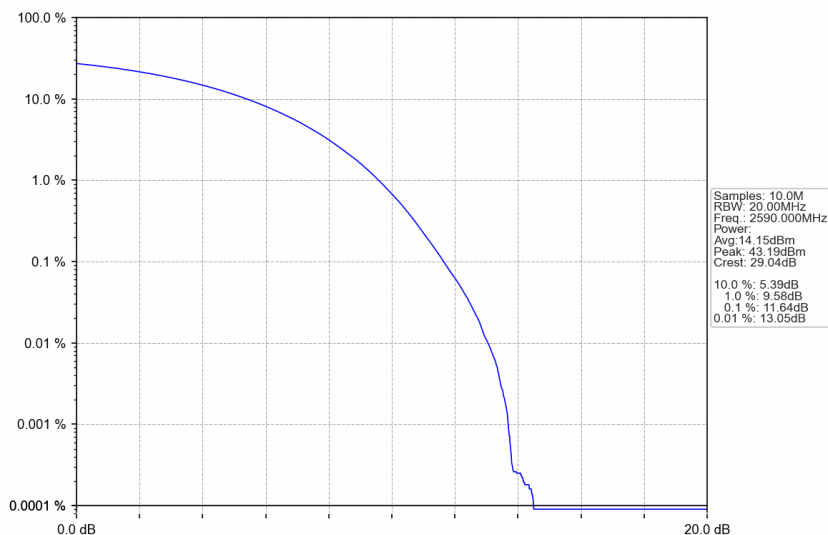
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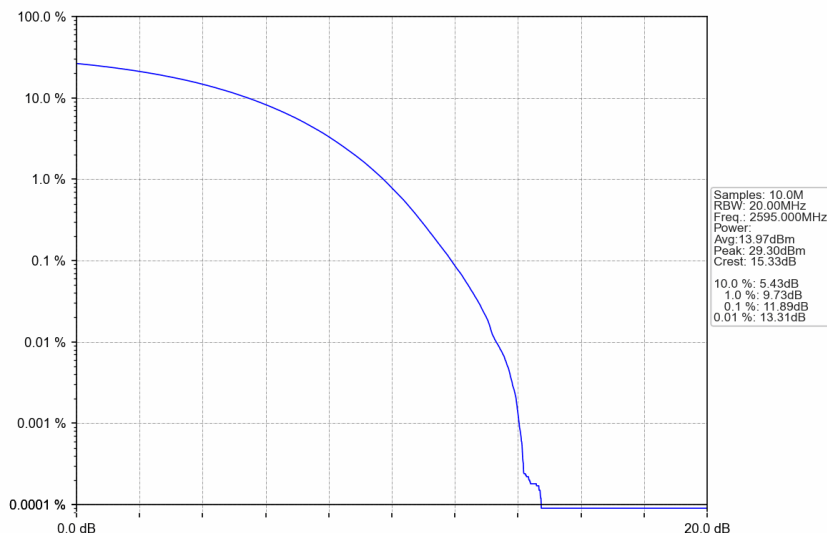


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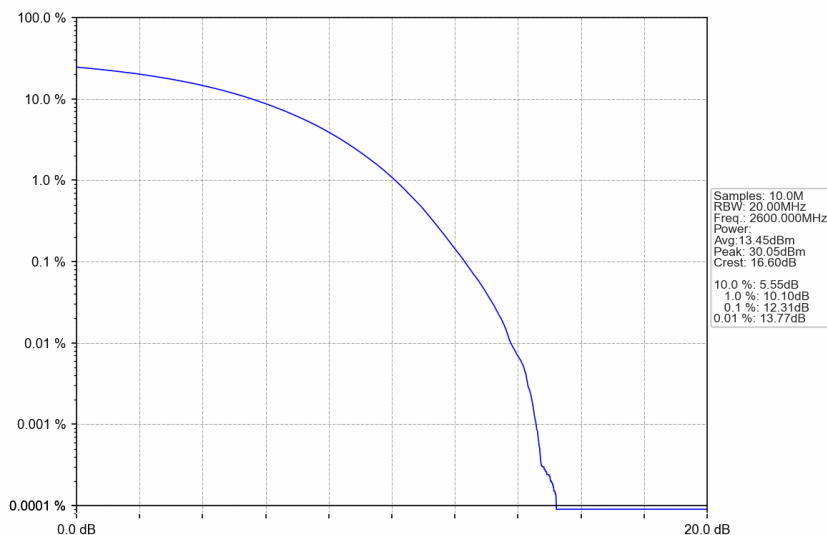
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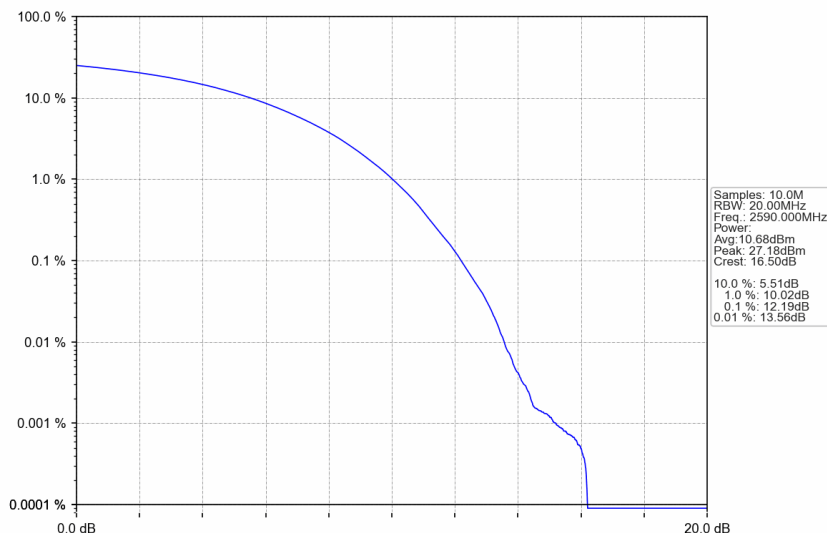
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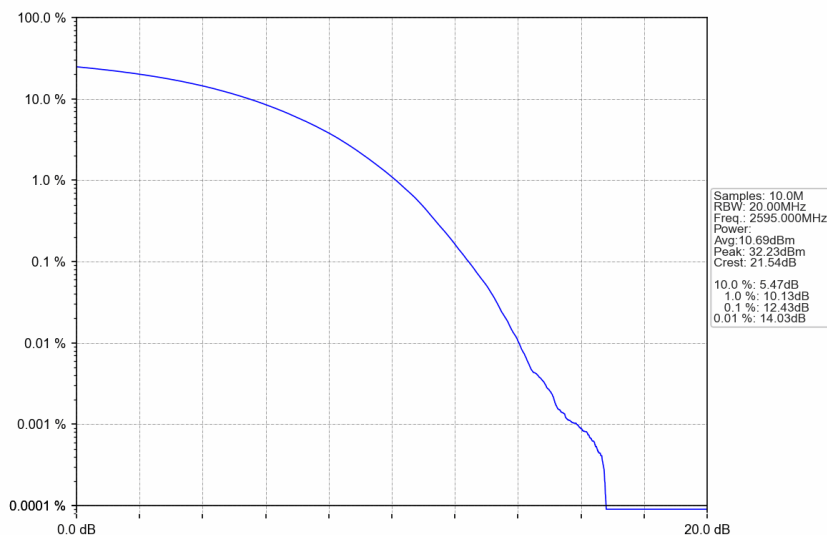
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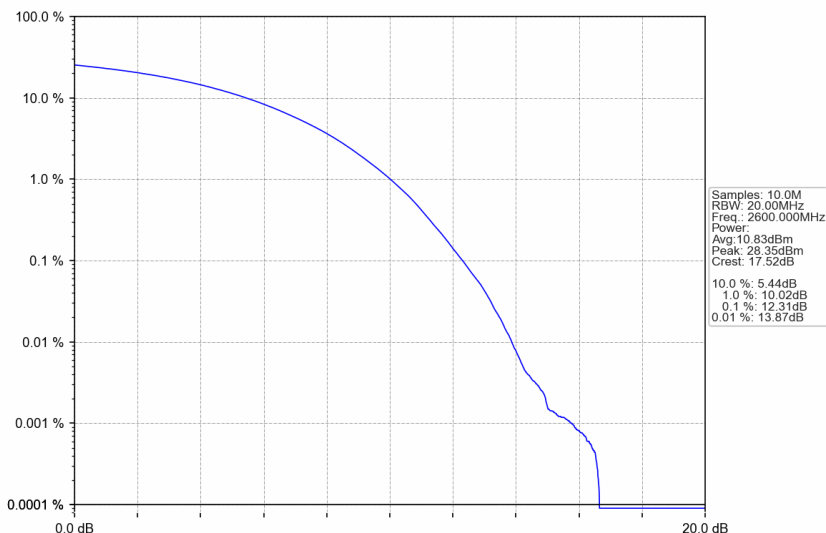


Report No.: SEWM2311000456RG02

Rev.: 01

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5.8 30k_SISO_10MHz_NTNV

5.8.1 Test Result

5G NR n38 SCS=30kHz SISO 10MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2575	Outer_Full	10.88	/	/	<=13	Pass
	2595	Outer_Full	10.76	/	/	<=13	Pass
	2615	Outer_Full	10.73	/	/	<=13	Pass
DFT-s-OFDM QPSK	2575	Outer_Full	11.81	/	/	<=13	Pass
	2595	Outer_Full	11.64	/	/	<=13	Pass
	2615	Outer_Full	11.82	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	2575	Outer_Full	12.66	/	/	<=13	Pass
	2595	Outer_Full	12.34	/	/	<=13	Pass
	2615	Outer_Full	12.41	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	2575	Outer_Full	12.65	/	/	<=13	Pass
	2595	Outer_Full	12.84	/	/	<=13	Pass
	2615	Outer_Full	12.52	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	2575	Outer_Full	12.90	/	/	<=13	Pass
	2595	Outer_Full	12.74	/	/	<=13	Pass
	2615	Outer_Full	12.76	/	/	<=13	Pass
CP-OFDM QPSK	2575	Outer_Full	11.87	/	/	<=13	Pass
	2595	Outer_Full	11.98	/	/	<=13	Pass
	2615	Outer_Full	11.92	/	/	<=13	Pass
CP-OFDM 16 QAM	2575	Outer_Full	10.79	/	/	<=13	Pass
	2595	Outer_Full	12.17	/	/	<=13	Pass
	2615	Outer_Full	11.93	/	/	<=13	Pass
CP-OFDM 64 QAM	2575	Outer_Full	11.23	/	/	<=13	Pass
	2595	Outer_Full	11.92	/	/	<=13	Pass
	2615	Outer_Full	11.74	/	/	<=13	Pass
CP-OFDM 256 QAM	2575	Outer_Full	11.57	/	/	<=13	Pass
	2595	Outer_Full	11.75	/	/	<=13	Pass
	2615	Outer_Full	11.67	/	/	<=13	Pass

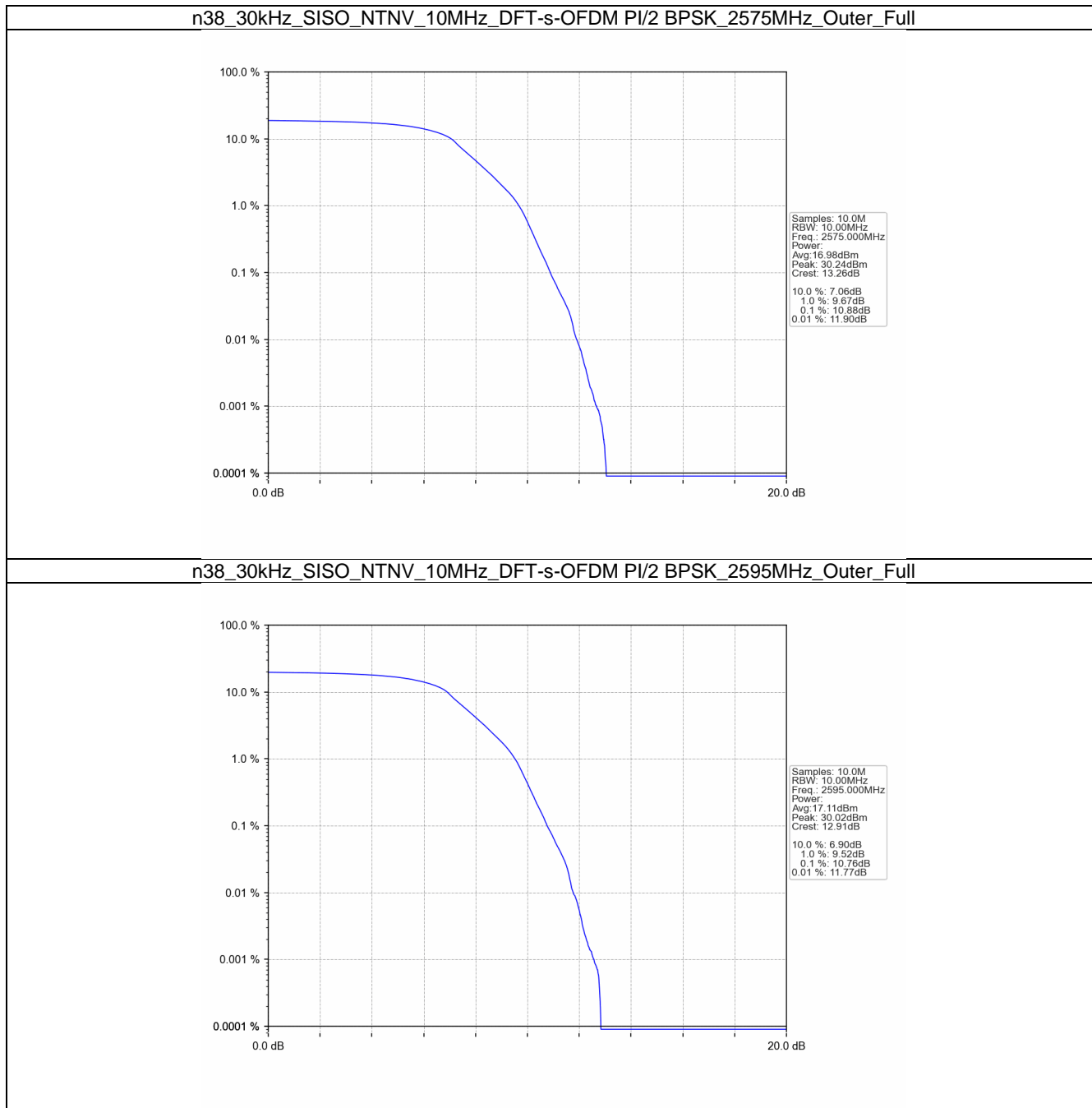


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5.8.2 Test Graph

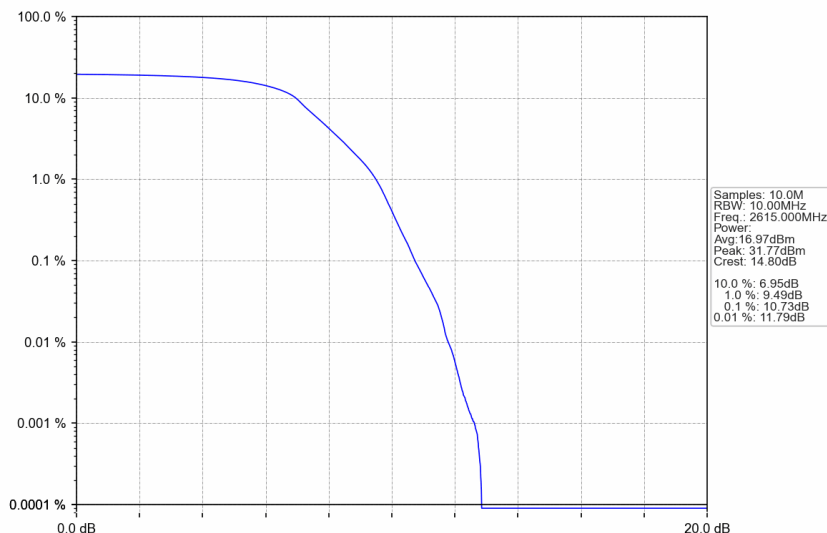


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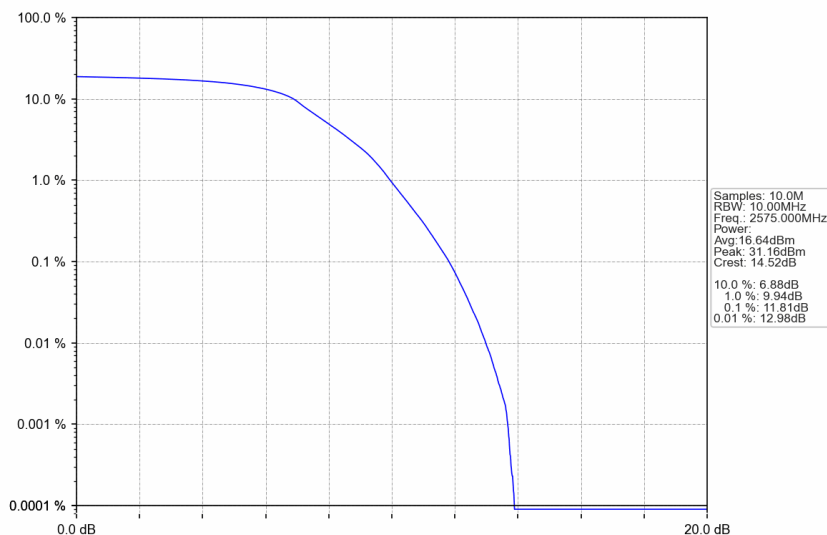
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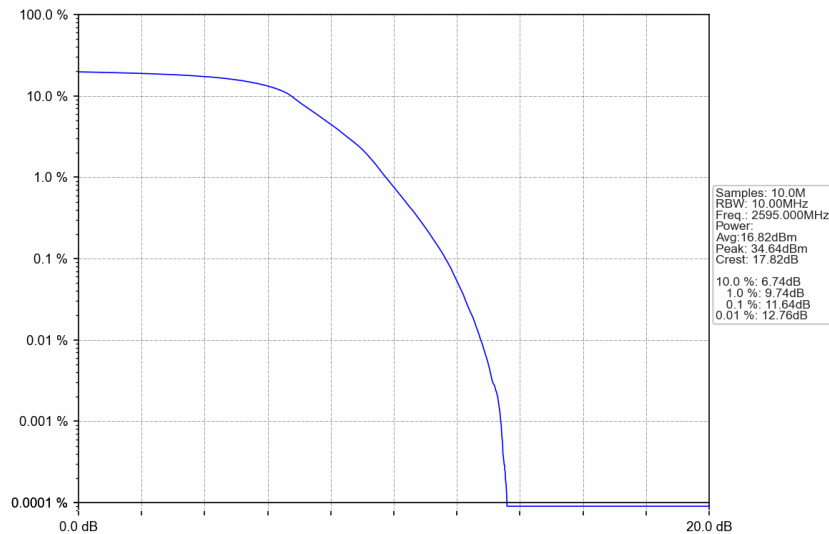
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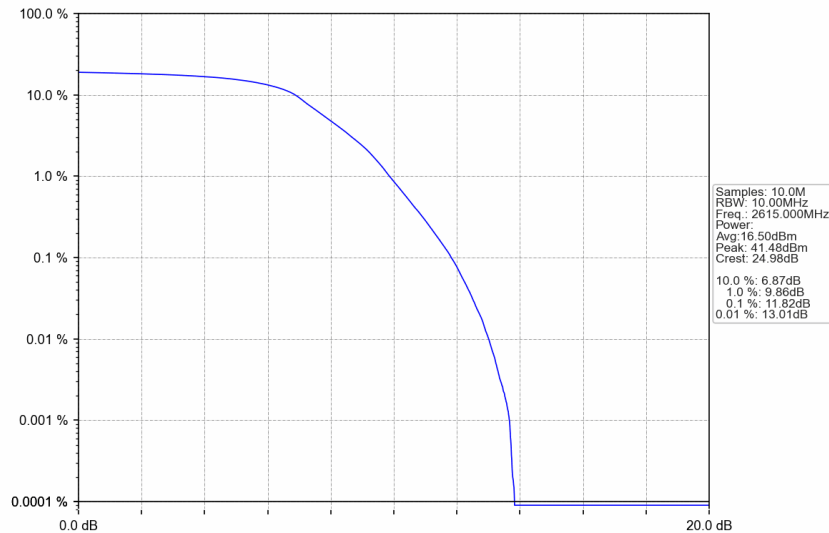
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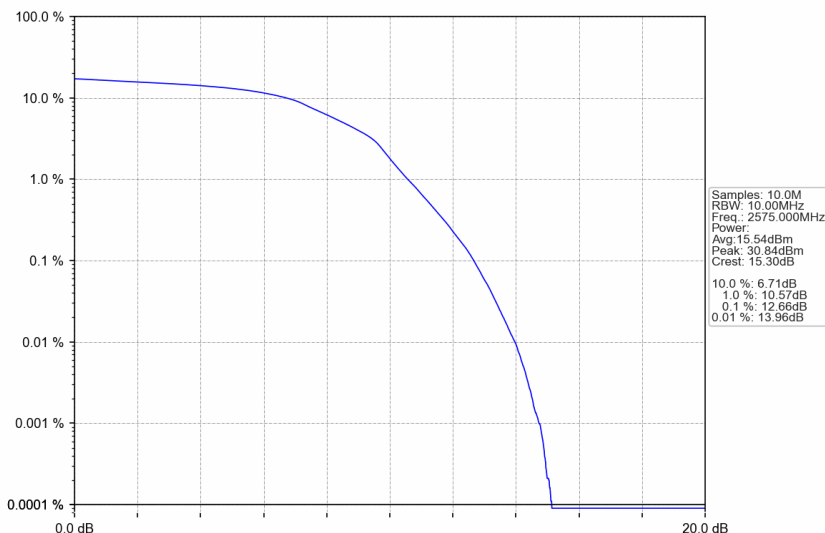
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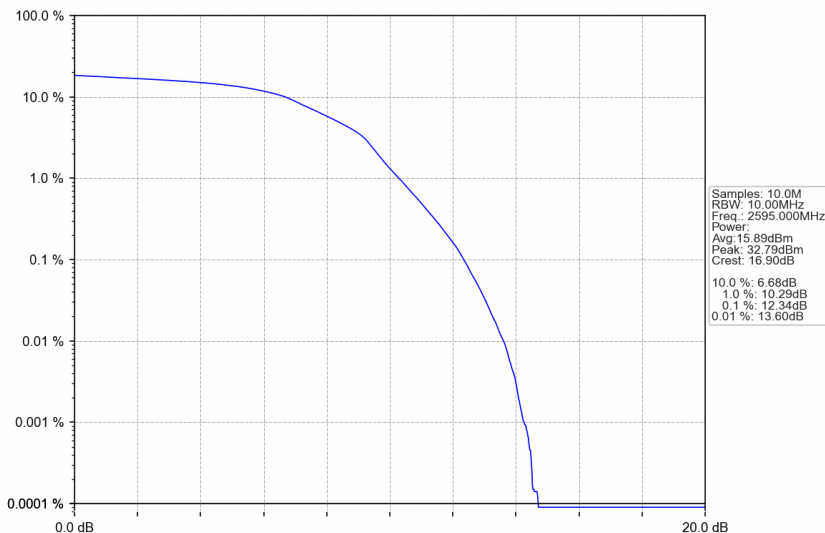
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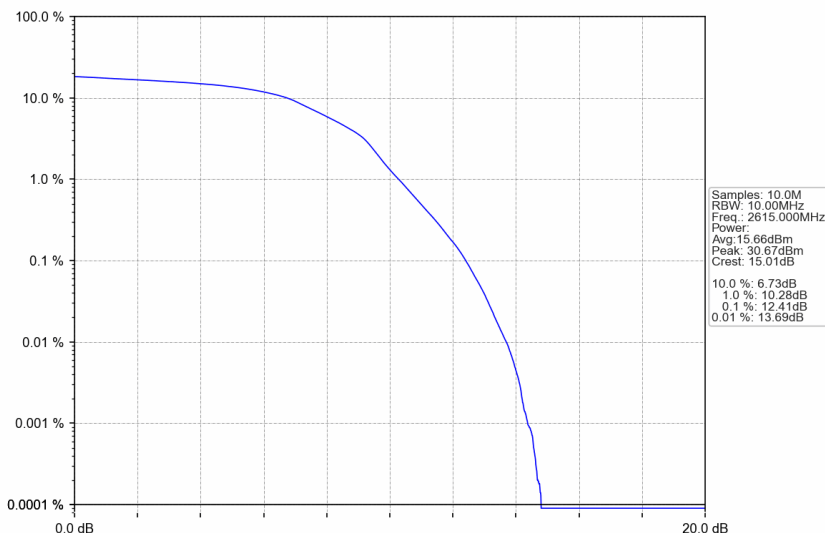


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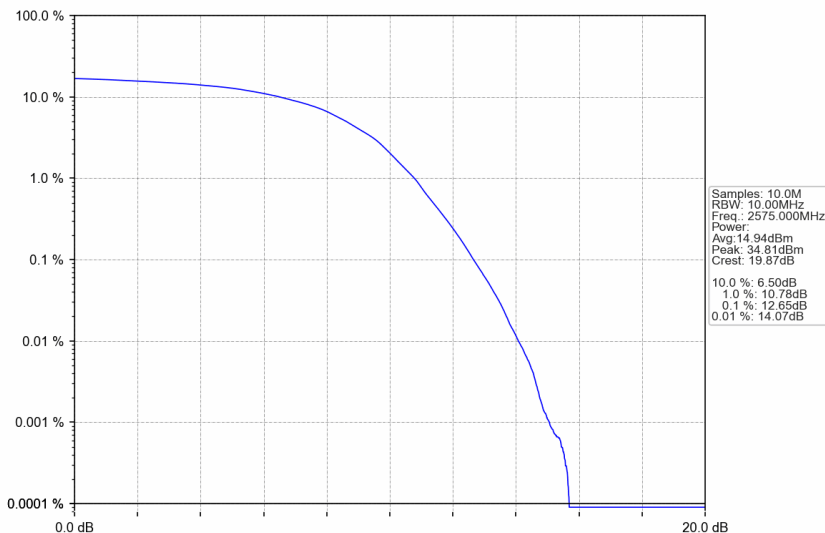
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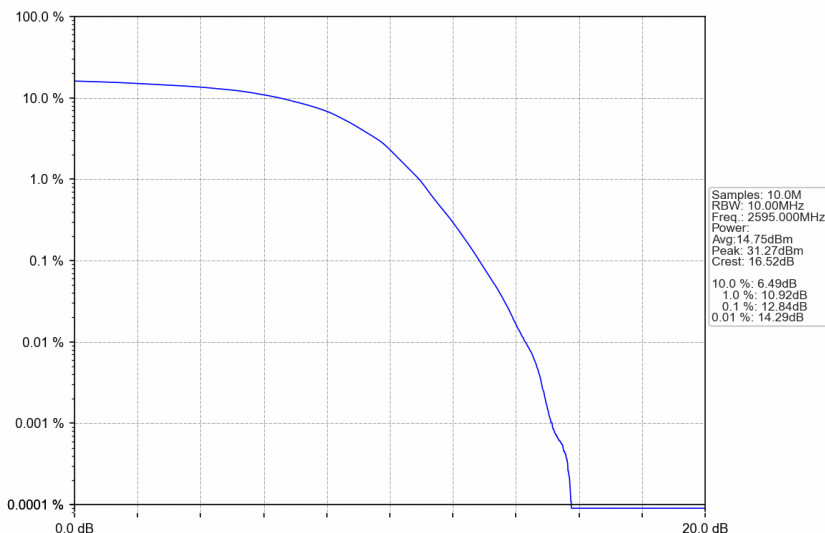


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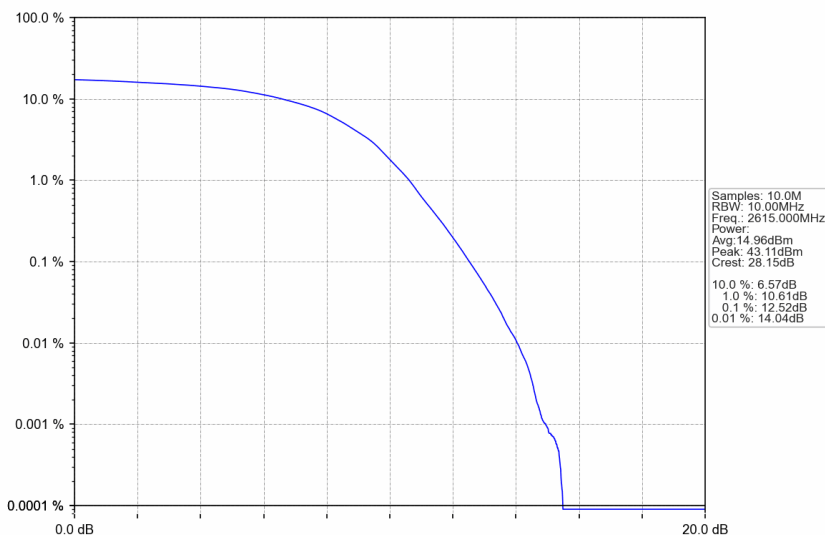
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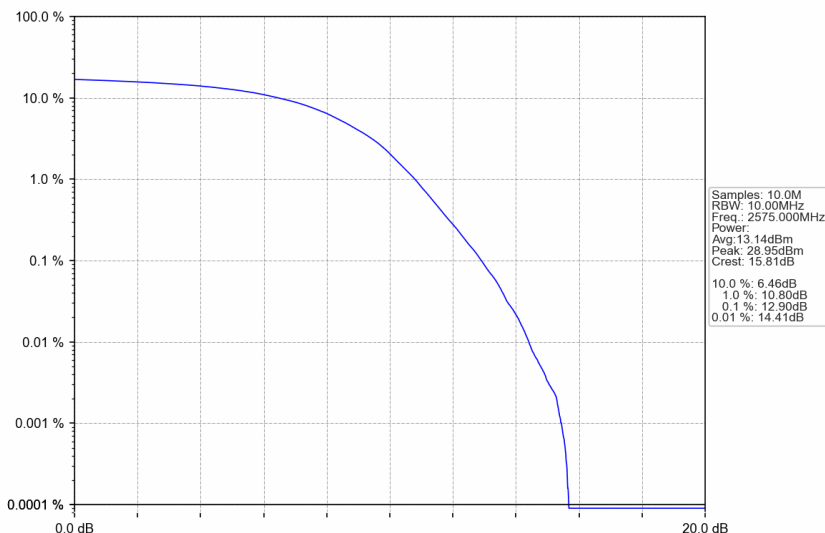


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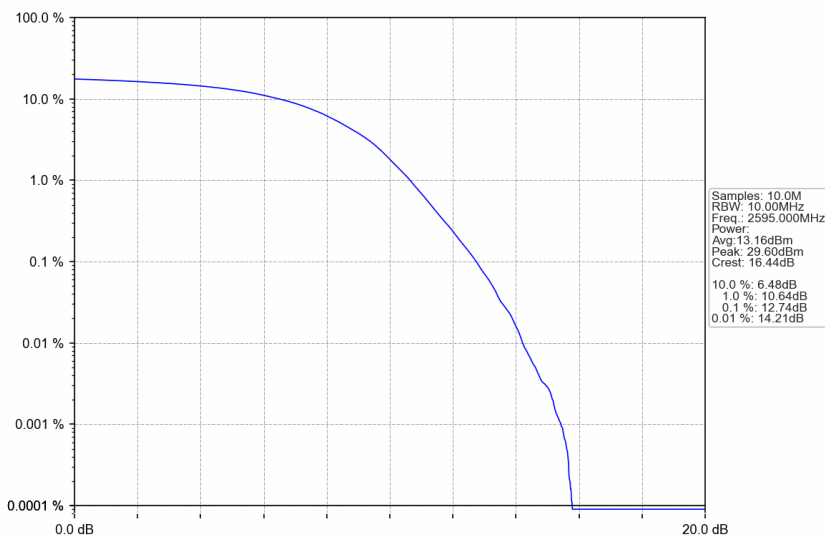
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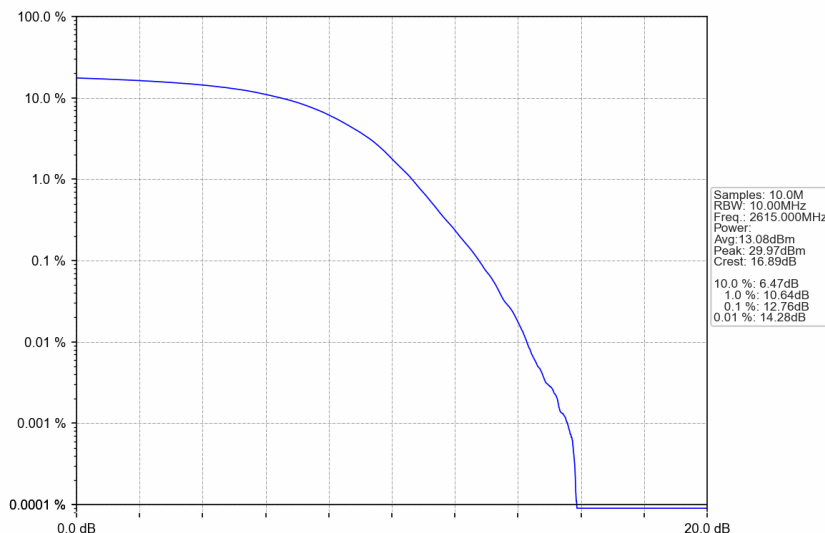


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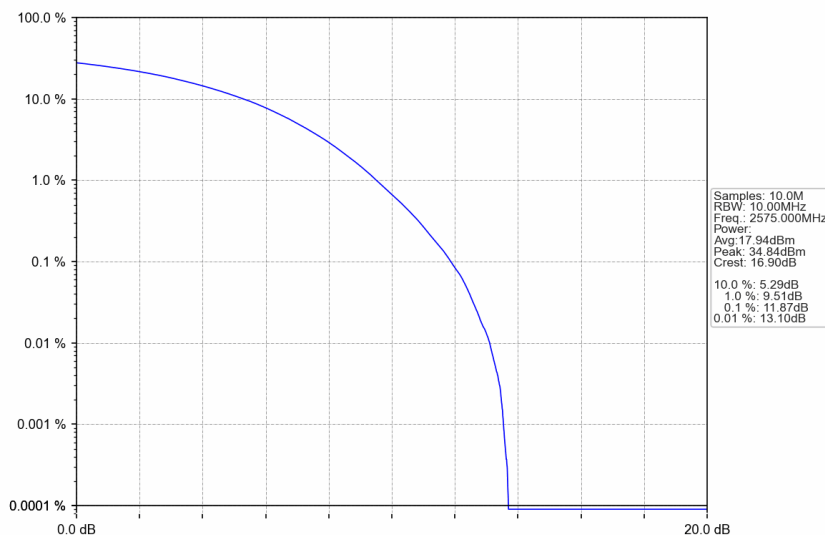
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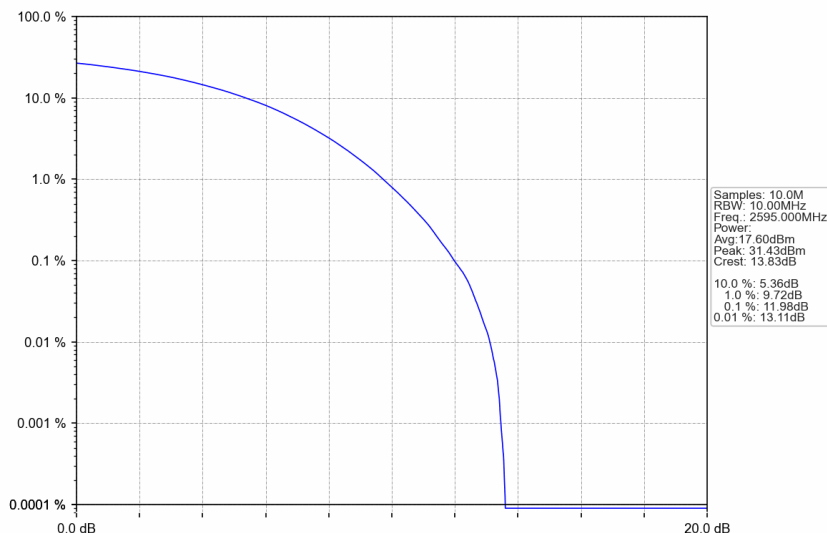


Report No.: SEWM2311000456RG02

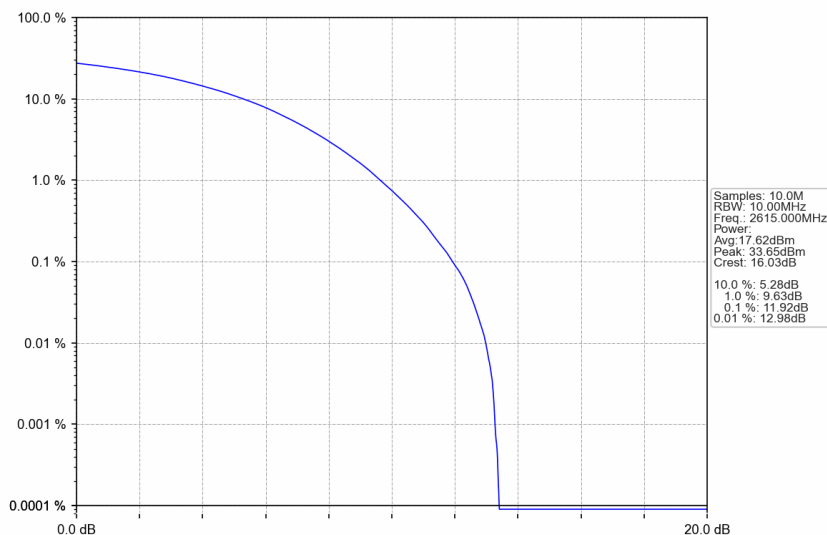
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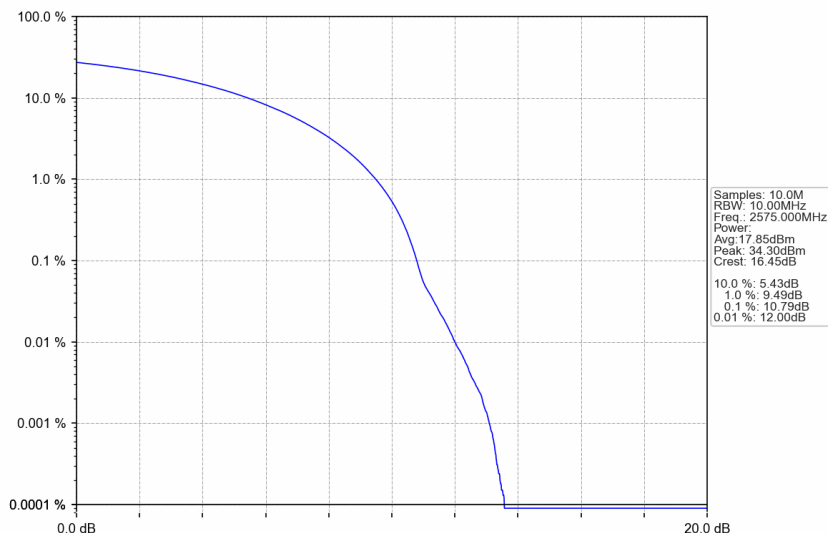
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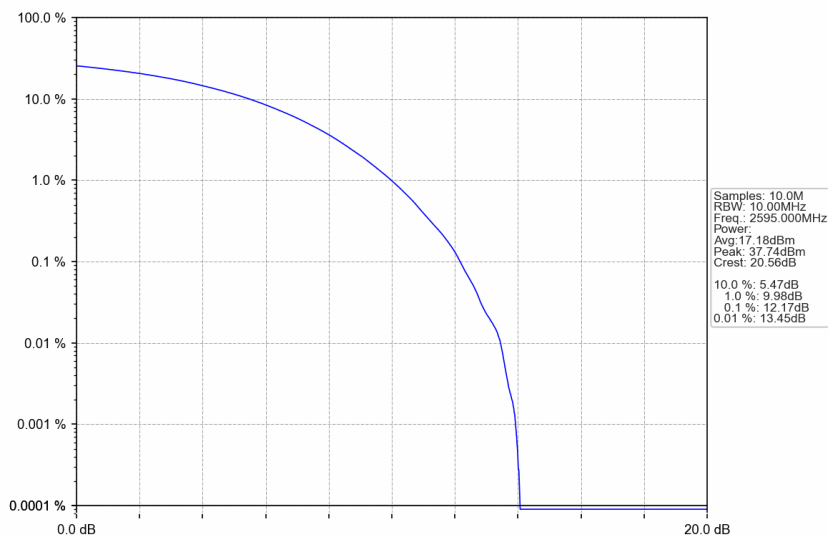
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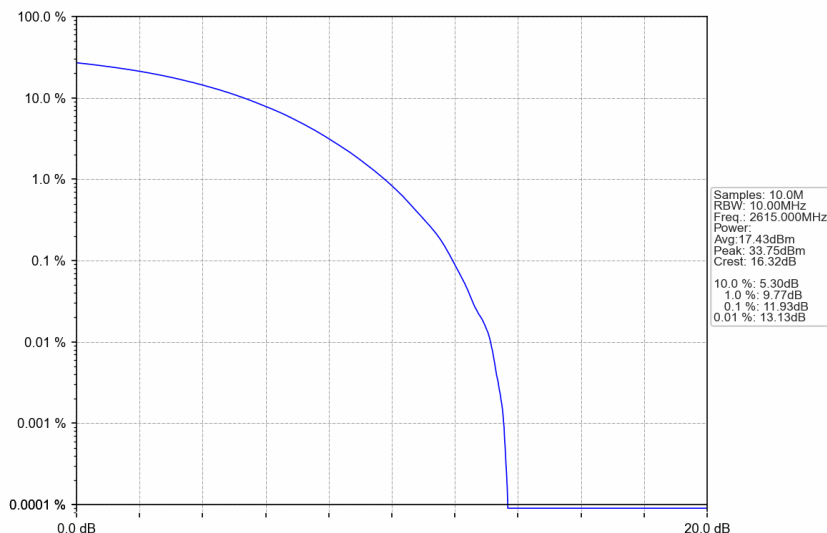


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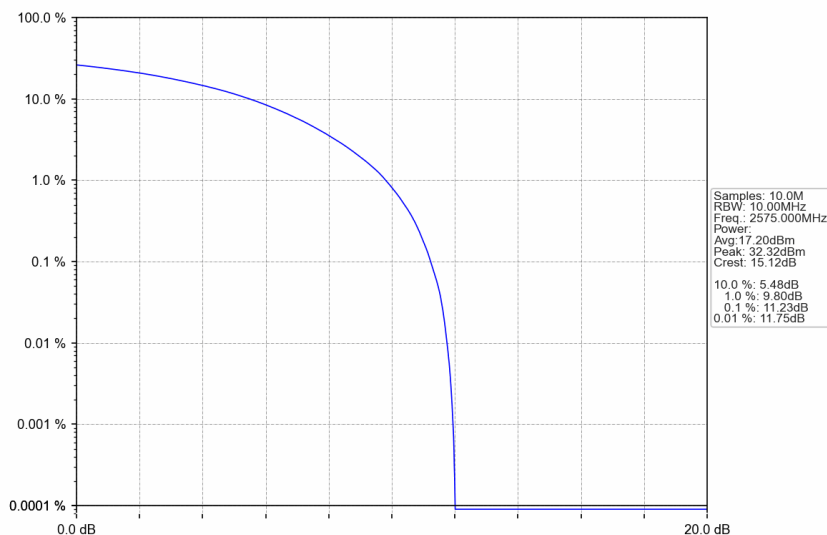
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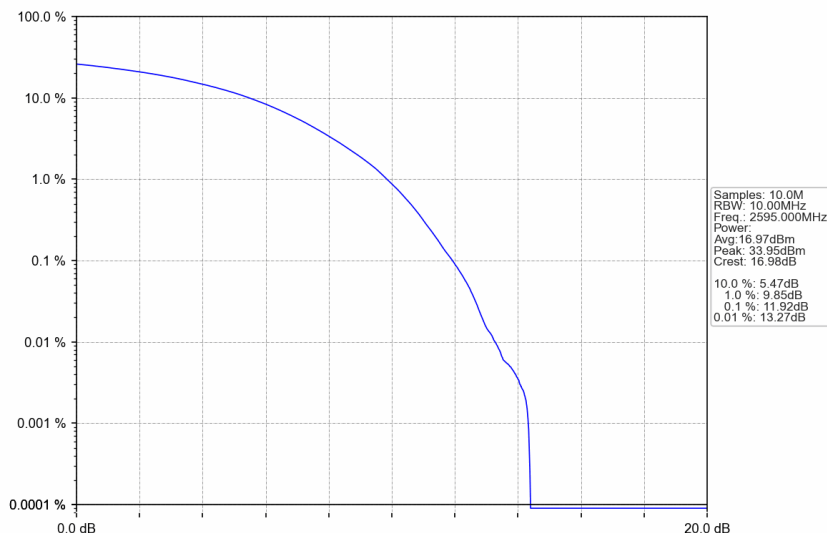
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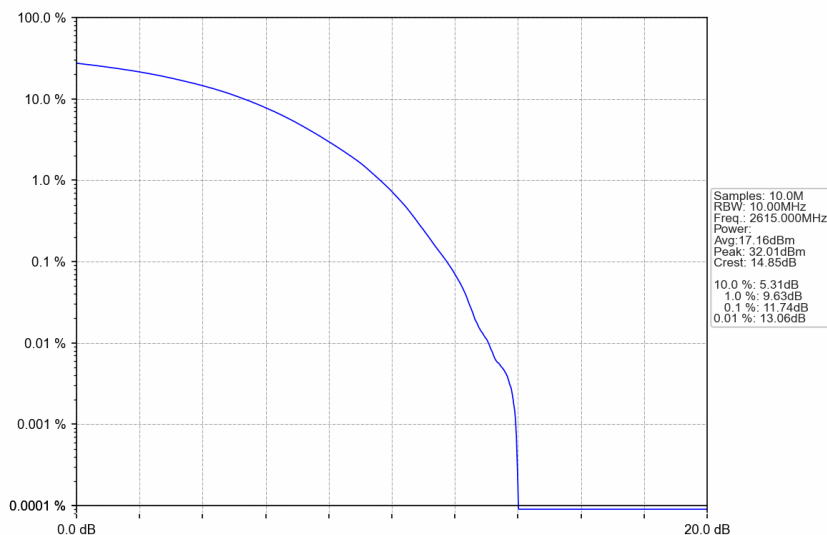
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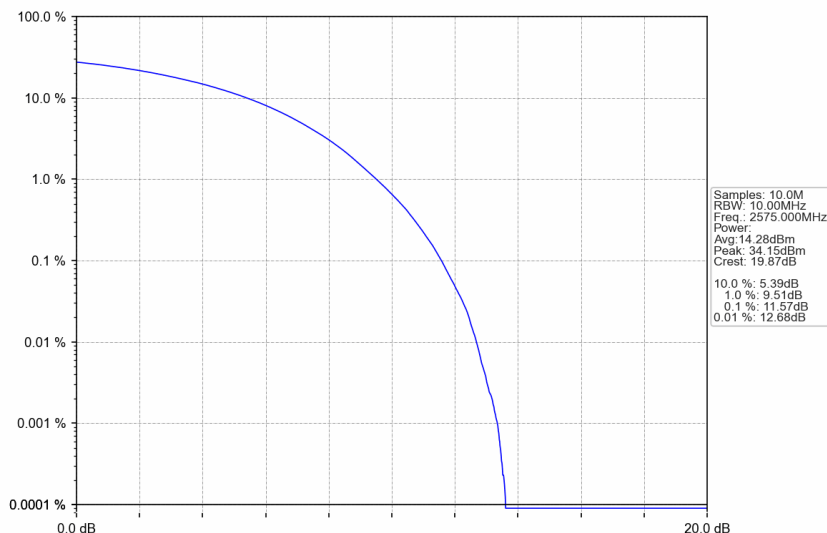
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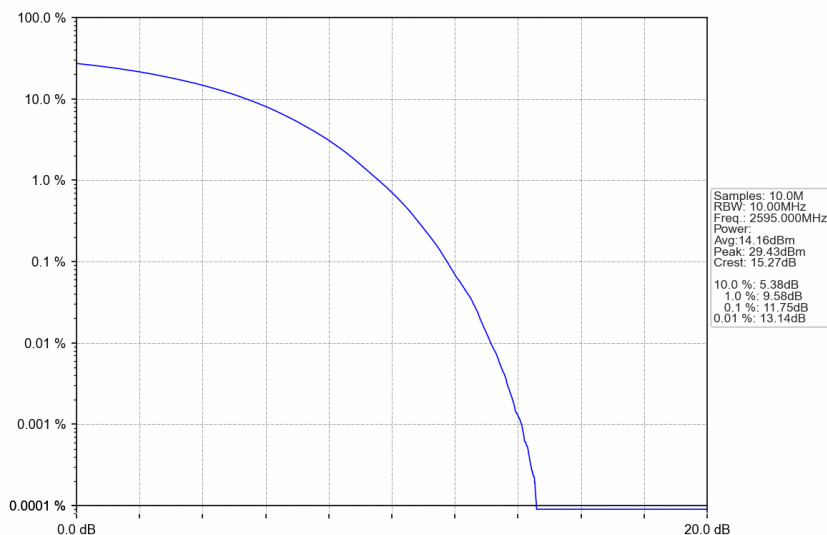
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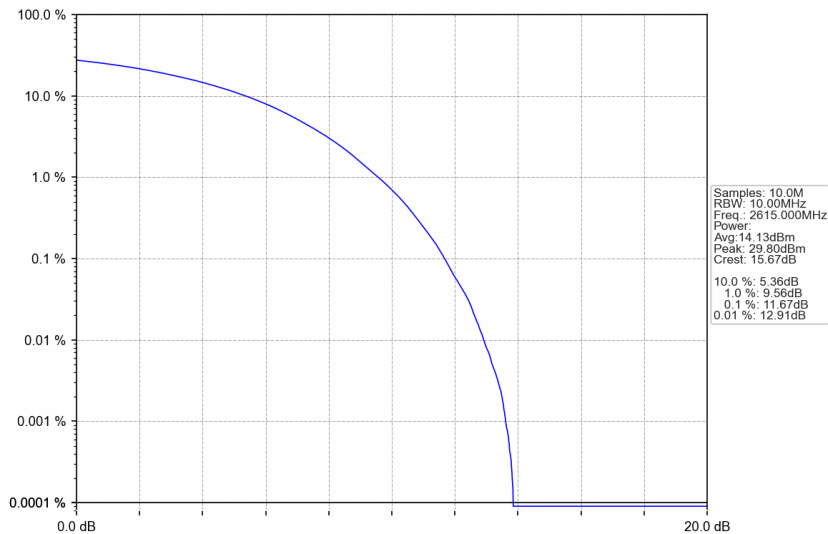


Report No.: SEWM2311000456RG02

Rev.: 01

Page: 416 of 855

n38_30kHz_SISO_NTNV_10MHz_CP-OFDM 256 QAM_2615MHz_Outer_Full



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5.9 30k_SISO_15MHz_NTNV

5.9.1 Test Result

5G NR n38 SCS=30kHz SISO 15MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2577.5	Outer_Full	10.54	/	/	<=13	Pass
	2595	Outer_Full	10.63	/	/	<=13	Pass
	2612.5	Outer_Full	11.01	/	/	<=13	Pass
DFT-s-OFDM QPSK	2577.5	Outer_Full	11.76	/	/	<=13	Pass
	2595	Outer_Full	11.91	/	/	<=13	Pass
	2612.5	Outer_Full	11.43	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	2577.5	Outer_Full	12.09	/	/	<=13	Pass
	2595	Outer_Full	12.02	/	/	<=13	Pass
	2612.5	Outer_Full	12.26	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	2577.5	Outer_Full	12.69	/	/	<=13	Pass
	2595	Outer_Full	12.61	/	/	<=13	Pass
	2612.5	Outer_Full	10.02	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	2577.5	Outer_Full	12.70	/	/	<=13	Pass
	2595	Outer_Full	12.24	/	/	<=13	Pass
	2612.5	Outer_Full	12.91	/	/	<=13	Pass
CP-OFDM QPSK	2577.5	Outer_Full	11.96	/	/	<=13	Pass
	2595	Outer_Full	11.68	/	/	<=13	Pass
	2612.5	Outer_Full	12.11	/	/	<=13	Pass
CP-OFDM 16 QAM	2577.5	Outer_Full	11.37	/	/	<=13	Pass
	2595	Outer_Full	11.68	/	/	<=13	Pass
	2612.5	Outer_Full	11.61	/	/	<=13	Pass
CP-OFDM 64 QAM	2577.5	Outer_Full	11.87	/	/	<=13	Pass
	2595	Outer_Full	10.85	/	/	<=13	Pass
	2612.5	Outer_Full	12.03	/	/	<=13	Pass
CP-OFDM 256 QAM	2577.5	Outer_Full	12.07	/	/	<=13	Pass
	2595	Outer_Full	11.95	/	/	<=13	Pass
	2612.5	Outer_Full	11.67	/	/	<=13	Pass

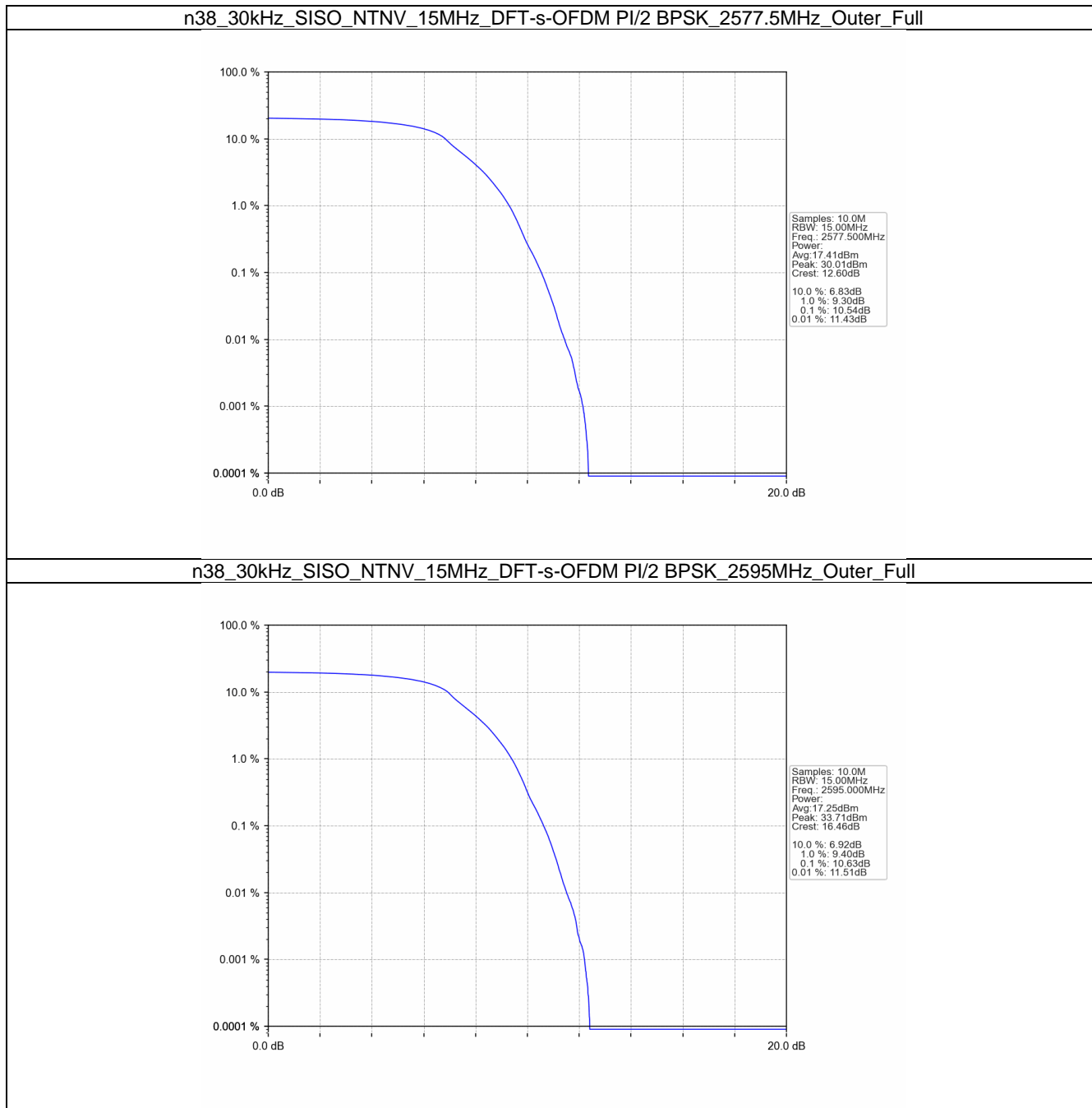


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5.9.2 Test Graph



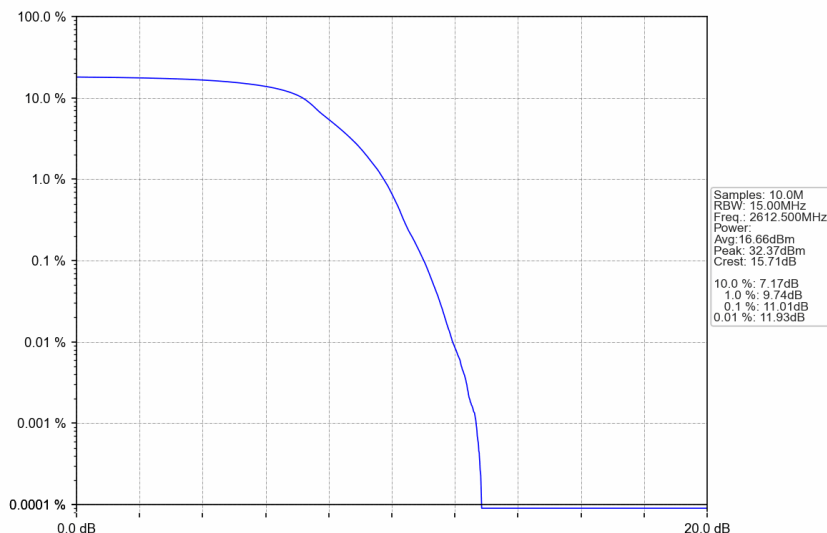
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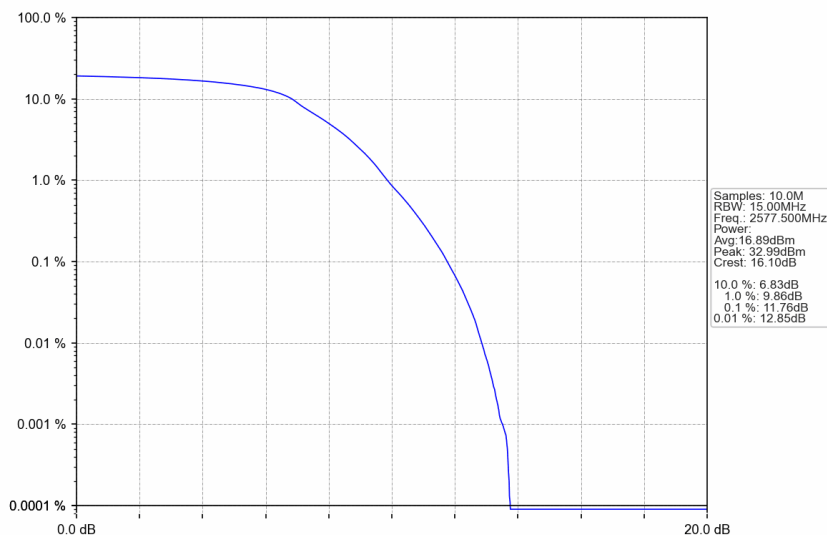
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n38_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_2612.5MHz_Outer_Full



n38_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_2577.5MHz_Outer_Full



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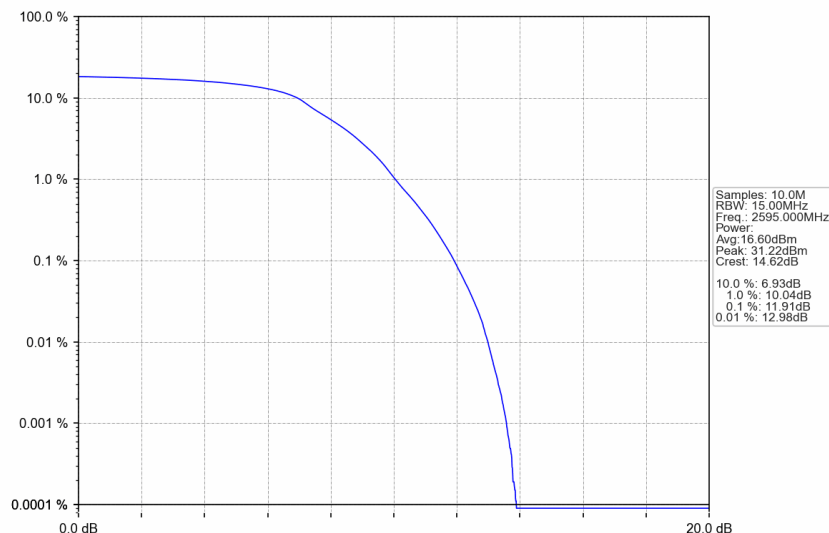
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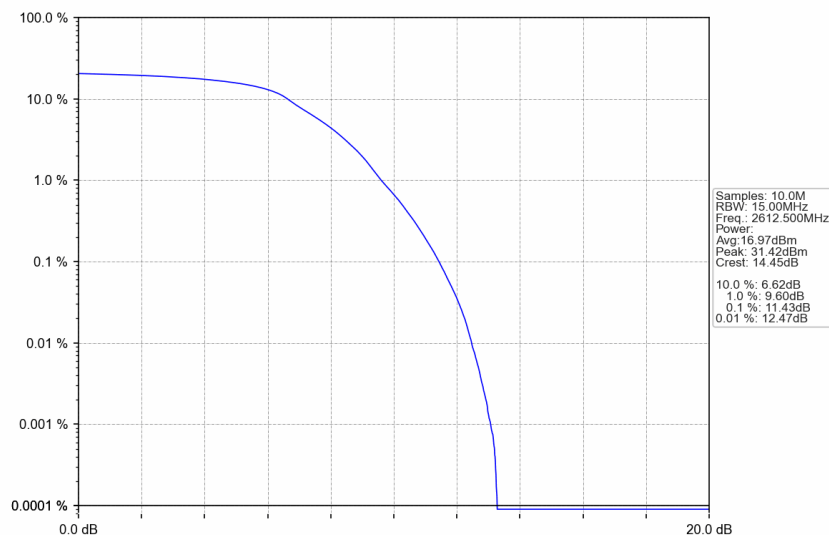
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n38_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_2612.5MHz_Outer_Full



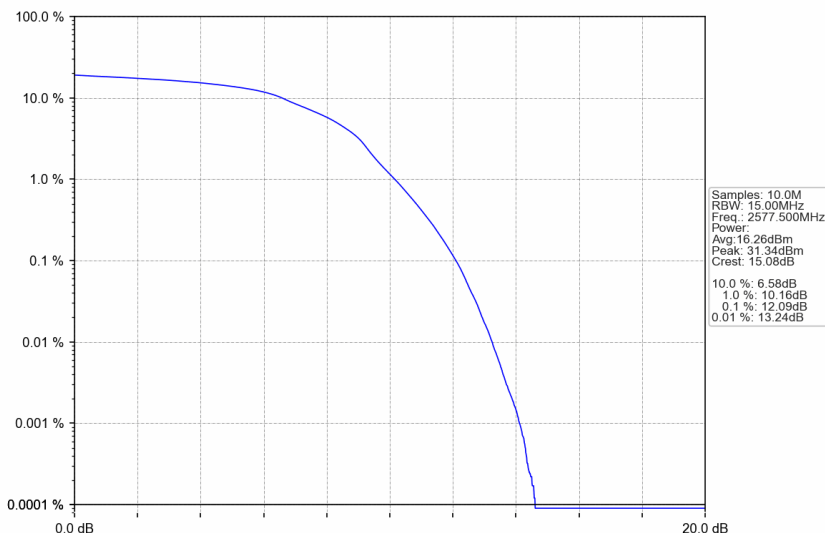
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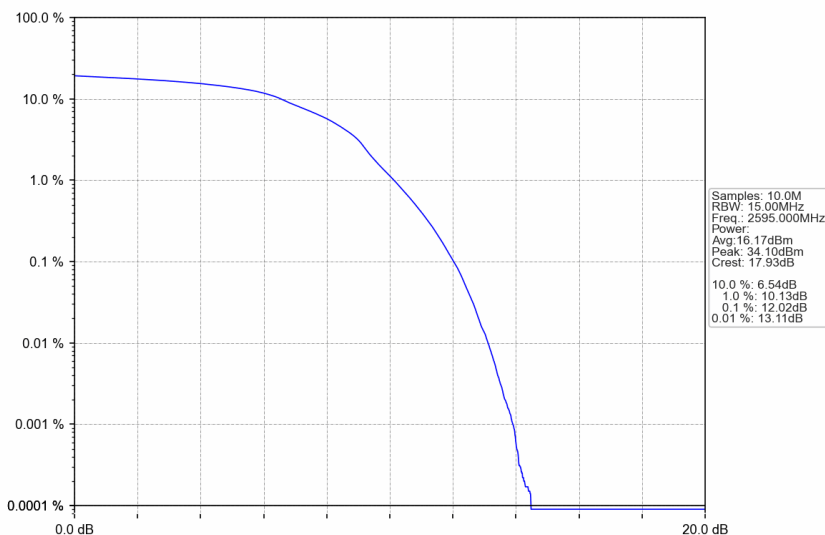
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n38_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM 16 QAM_2577.5MHz_Outer_Full



n38_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM 16 QAM_2595MHz_Outer_Full



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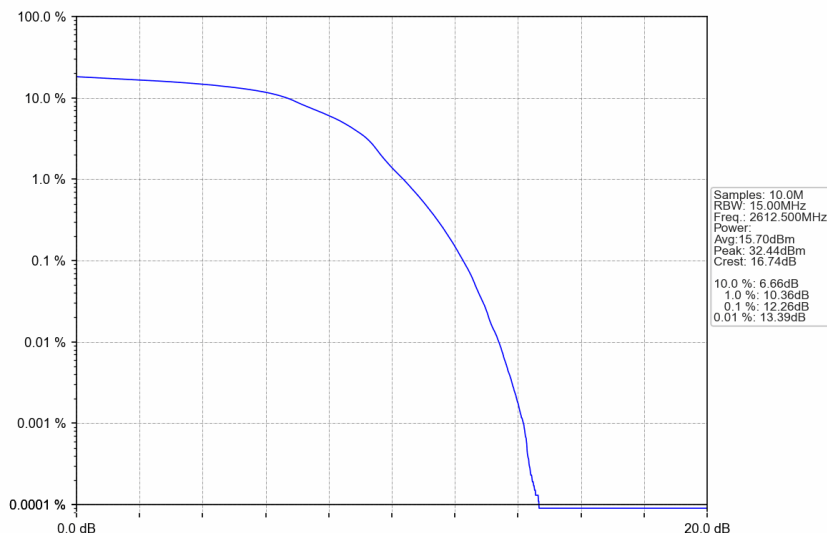
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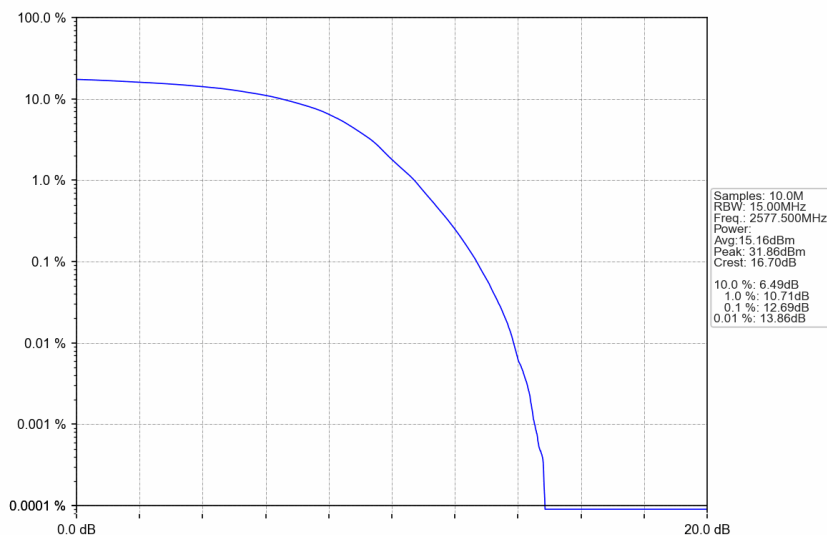
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n38_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM 16 QAM_2612.5MHz_Outer_Full



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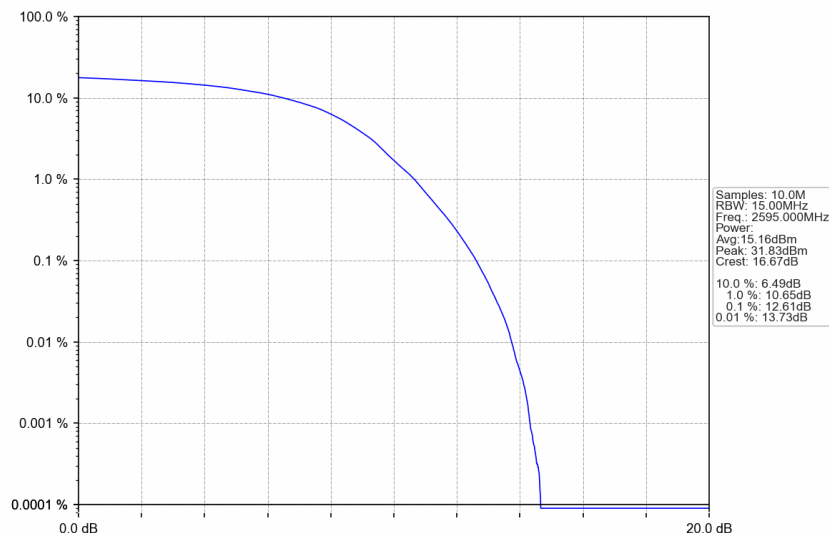
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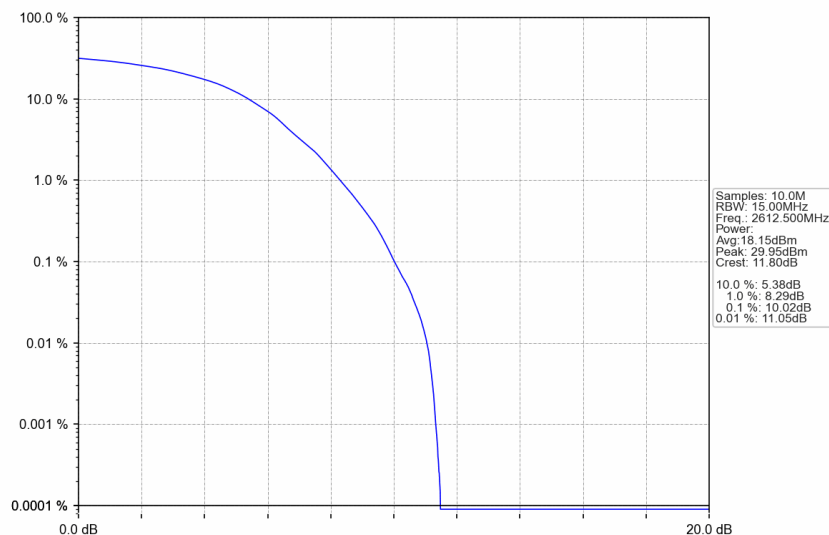
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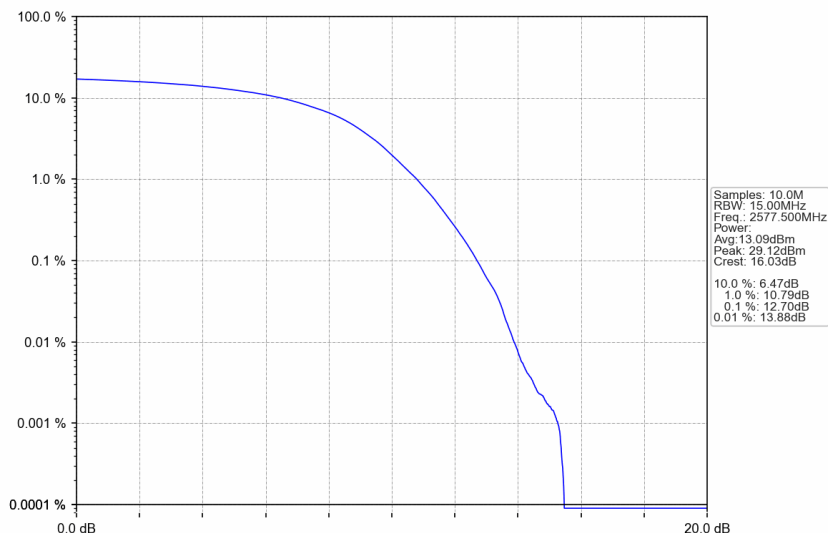
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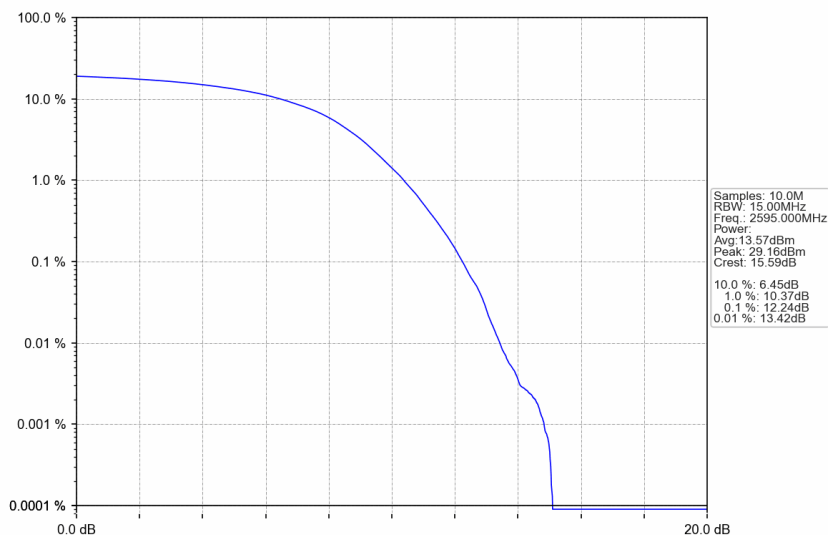
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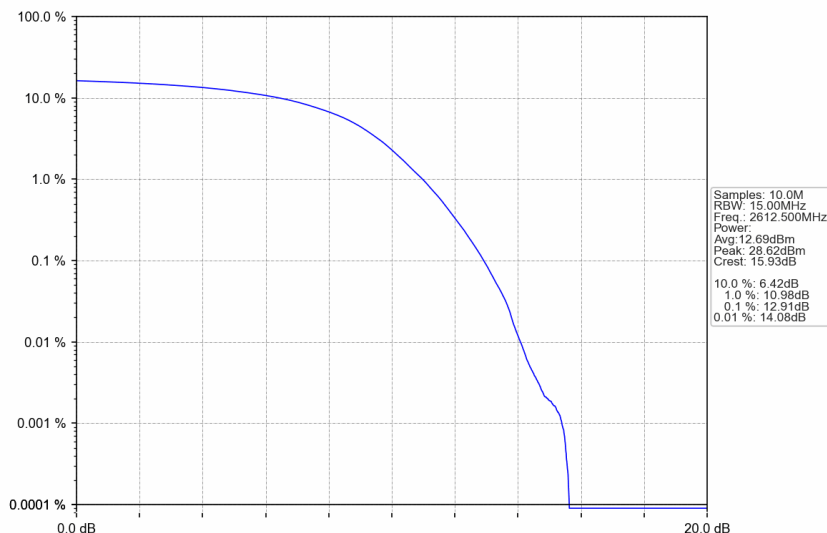


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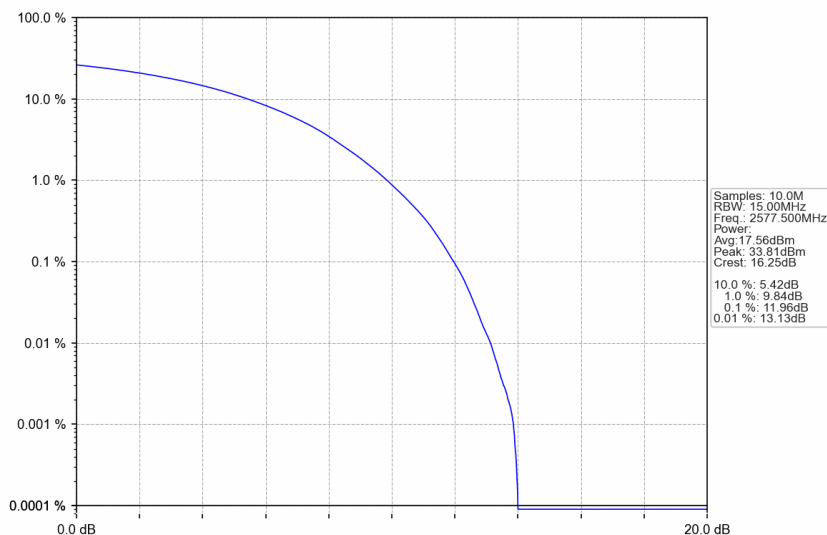
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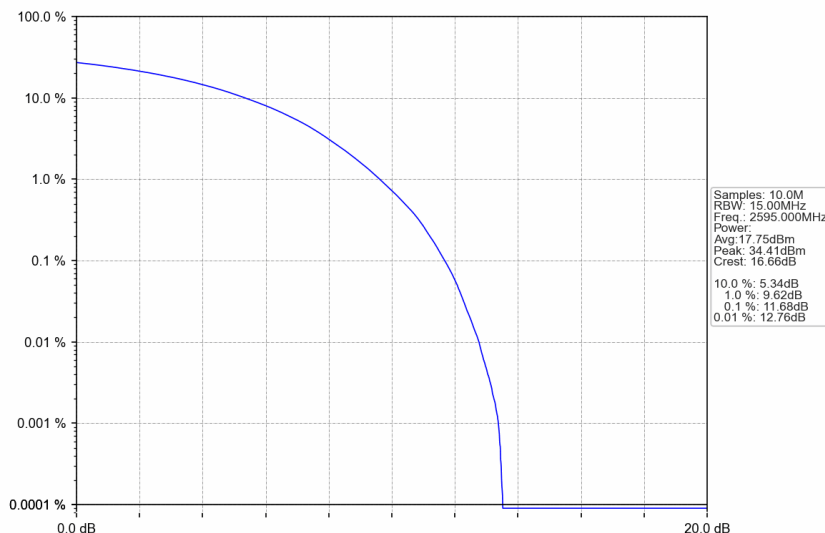
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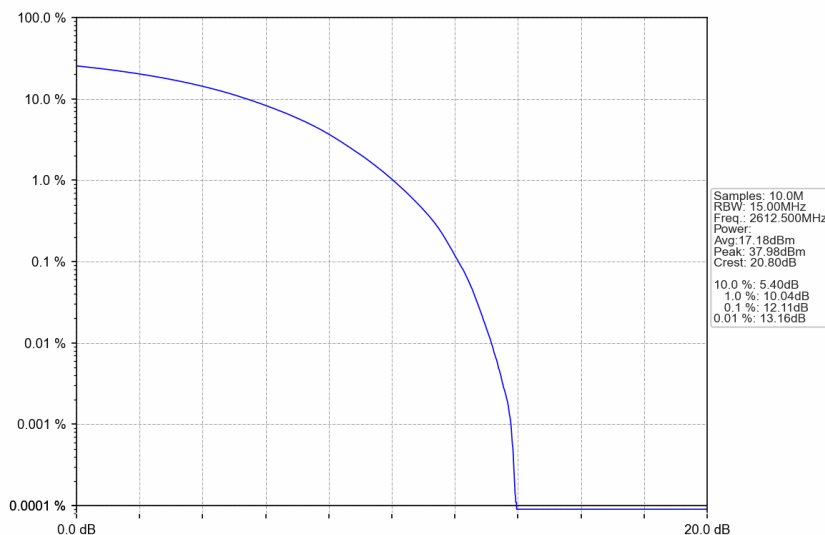
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n38_30kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_2595MHz_Outer_Full



n38_30kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_2612.5MHz_Outer_Full



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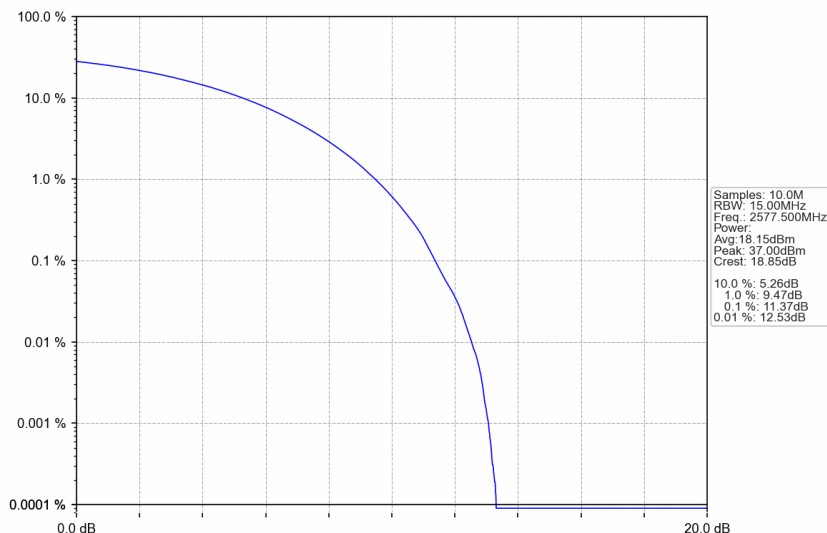
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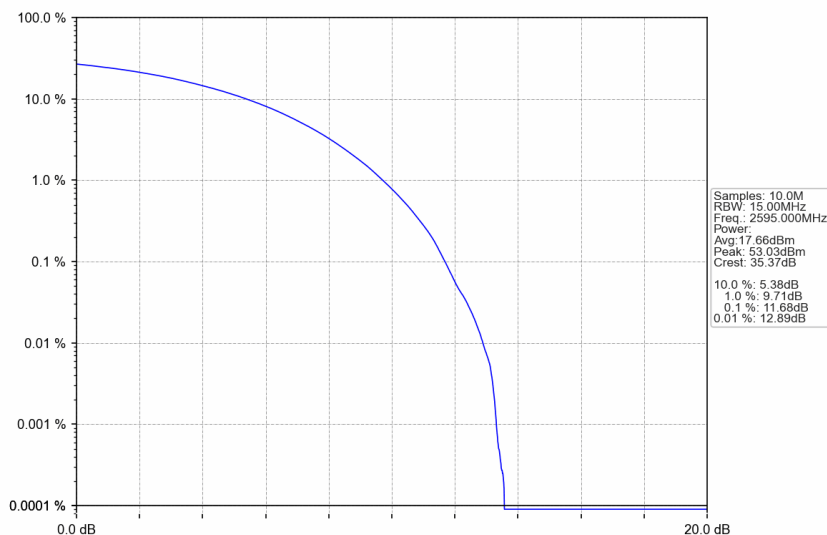
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n38_30kHz_SISO_NTNV_15MHz_CP-OFDM 16 QAM_2577.5MHz_Outer_Full



n38_30kHz_SISO_NTNV_15MHz_CP-OFDM 16 QAM_2595MHz_Outer_Full



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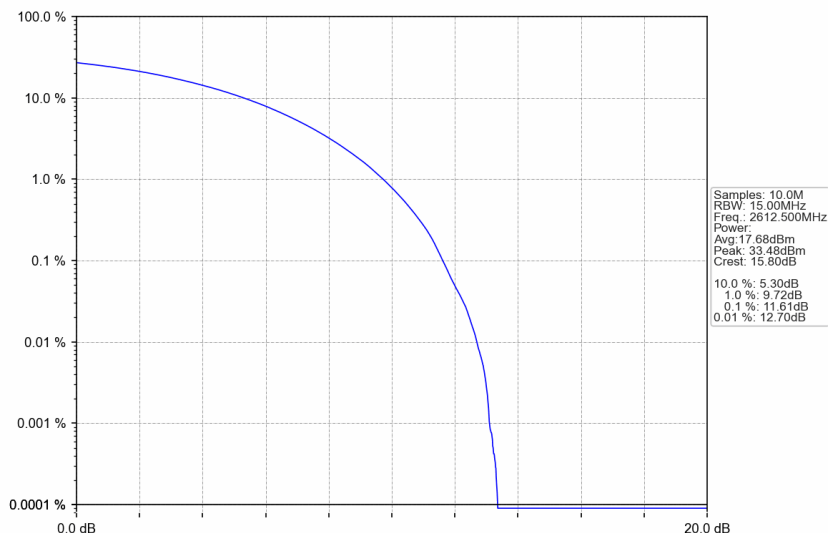
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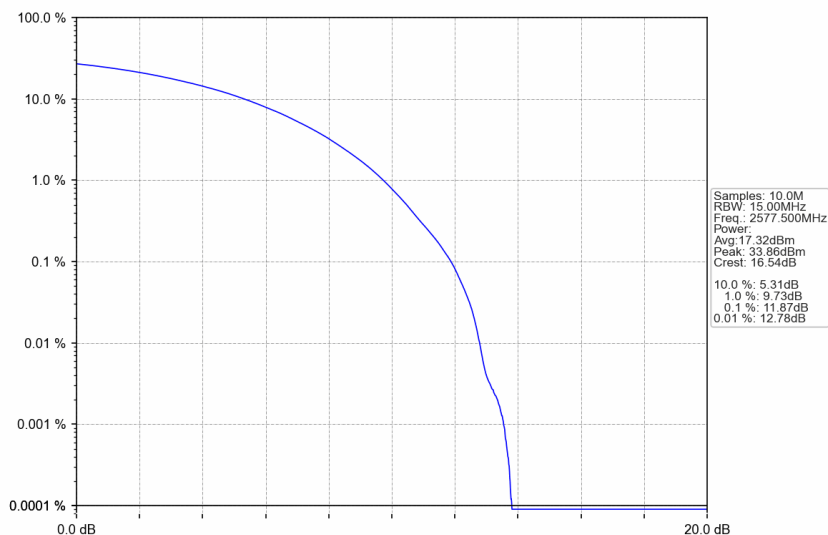
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n38_30kHz_SISO_NTNV_15MHz_CP-OFDM 16 QAM_2612.5MHz_Outer_Full



n38_30kHz_SISO_NTNV_15MHz_CP-OFDM 64 QAM_2577.5MHz_Outer_Full

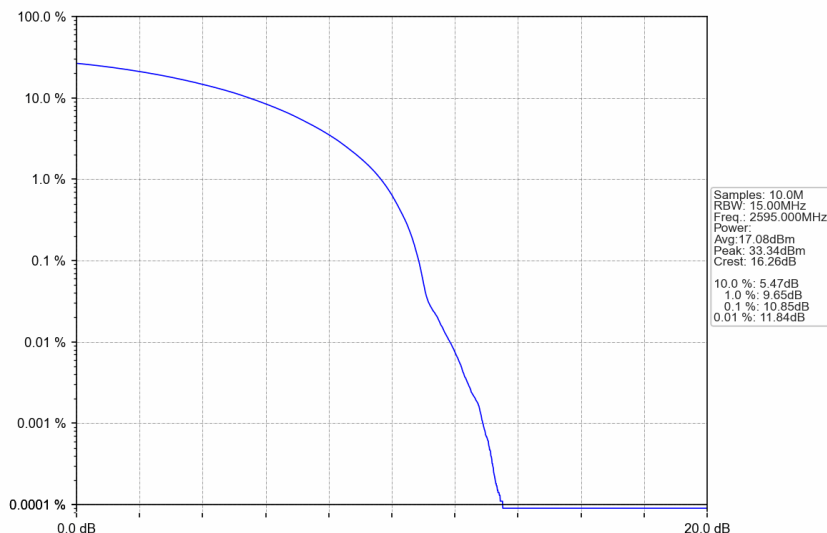


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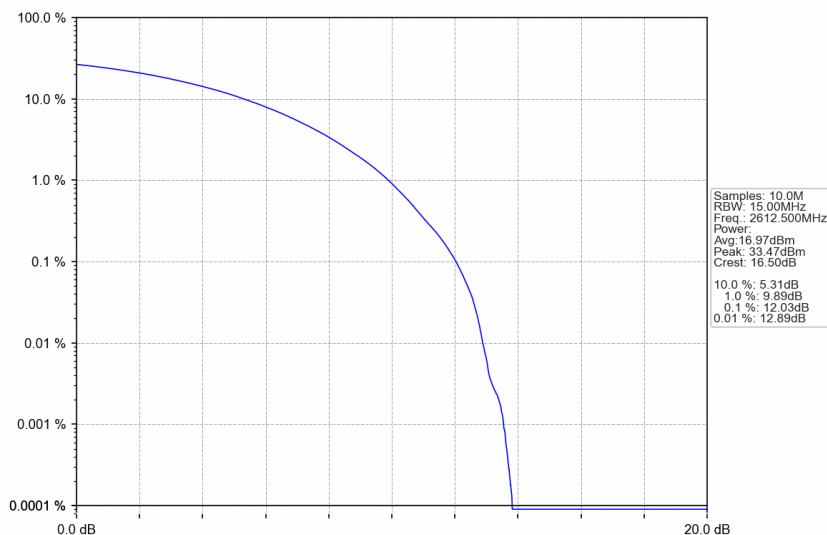
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n38_30kHz_SISO_NTNV_15MHz_CP-OFDM 64 QAM_2595MHz_Outer_Full



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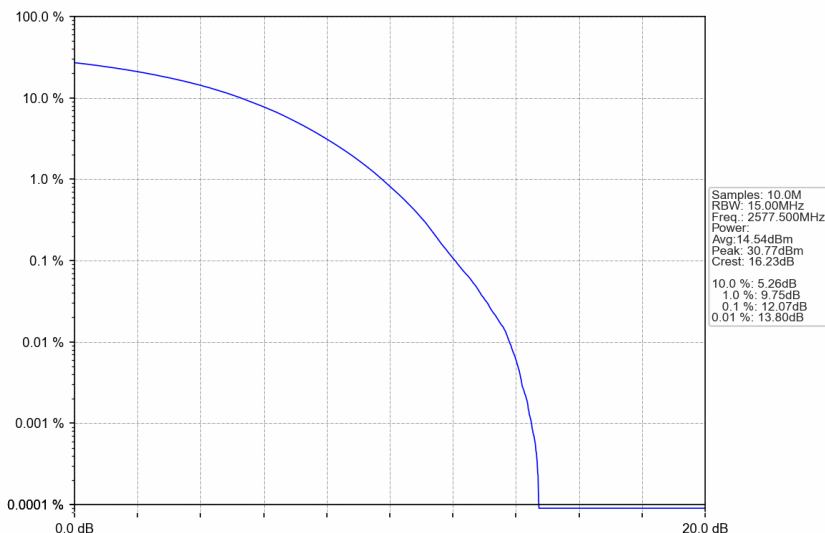
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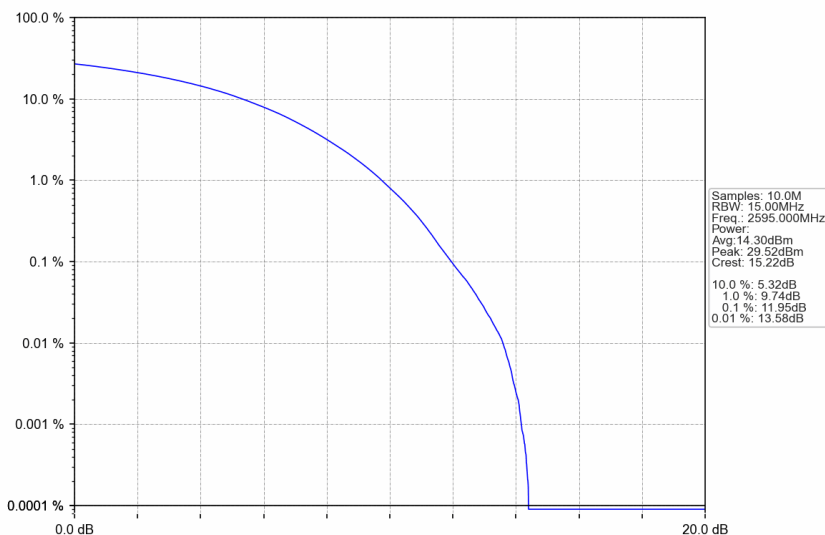
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n38_30kHz_SISO_NTNV_15MHz_CP-OFDM 256 QAM_2577.5MHz_Outer_Full



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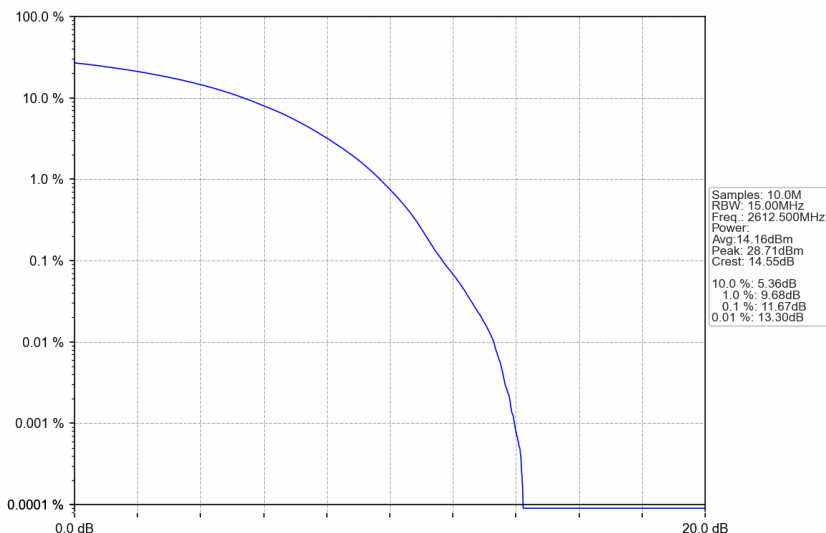


Report No.: SEWM2311000456RG02

Rev.: 01

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n38_30kHz_SISO_NTNV_15MHz_CP-OFDM 256 QAM_2612.5MHz_Outer_Full



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5.10 30k_SISO_20MHz_NTNV

5.10.1 Test Result

5G NR n38 SCS=30kHz SISO 20MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2580	Outer_Full	10.33	/	/	<=13	Pass
	2595	Outer_Full	10.72	/	/	<=13	Pass
	2610	Outer_Full	10.68	/	/	<=13	Pass
DFT-s-OFDM QPSK	2580	Outer_Full	11.86	/	/	<=13	Pass
	2595	Outer_Full	11.26	/	/	<=13	Pass
	2610	Outer_Full	11.13	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	2580	Outer_Full	12.40	/	/	<=13	Pass
	2595	Outer_Full	12.20	/	/	<=13	Pass
	2610	Outer_Full	11.92	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	2580	Outer_Full	12.87	/	/	<=13	Pass
	2595	Outer_Full	12.73	/	/	<=13	Pass
	2610	Outer_Full	12.24	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	2580	Outer_Full	12.87	/	/	<=13	Pass
	2595	Outer_Full	12.92	/	/	<=13	Pass
	2610	Outer_Full	12.75	/	/	<=13	Pass
CP-OFDM QPSK	2580	Outer_Full	11.86	/	/	<=13	Pass
	2595	Outer_Full	11.84	/	/	<=13	Pass
	2610	Outer_Full	11.86	/	/	<=13	Pass
CP-OFDM 16 QAM	2580	Outer_Full	11.86	/	/	<=13	Pass
	2595	Outer_Full	11.81	/	/	<=13	Pass
	2610	Outer_Full	11.63	/	/	<=13	Pass
CP-OFDM 64 QAM	2580	Outer_Full	11.82	/	/	<=13	Pass
	2595	Outer_Full	11.71	/	/	<=13	Pass
	2610	Outer_Full	12.06	/	/	<=13	Pass
CP-OFDM 256 QAM	2580	Outer_Full	11.67	/	/	<=13	Pass
	2595	Outer_Full	12.00	/	/	<=13	Pass
	2610	Outer_Full	11.87	/	/	<=13	Pass

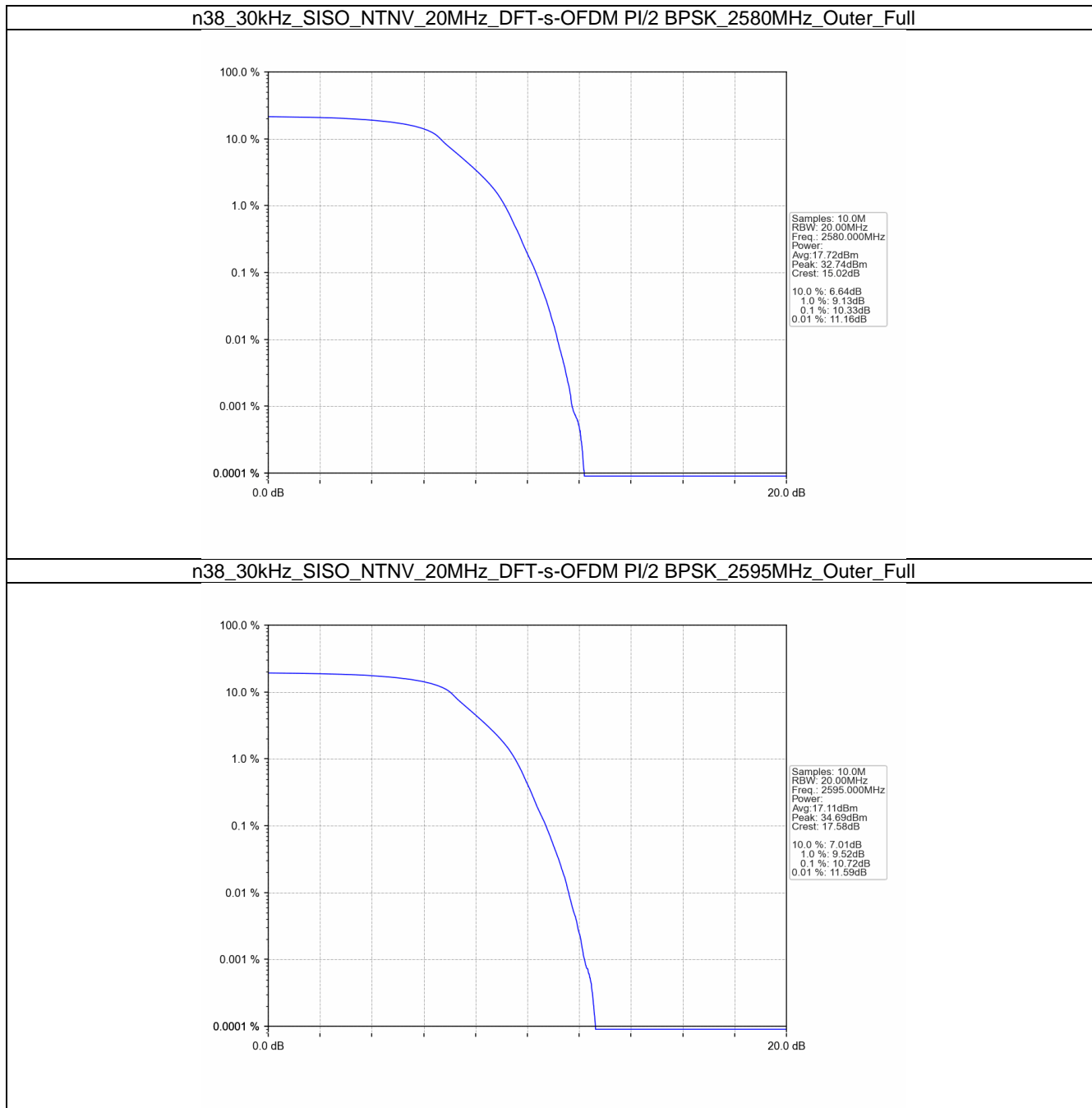


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5.10.2 Test Graph

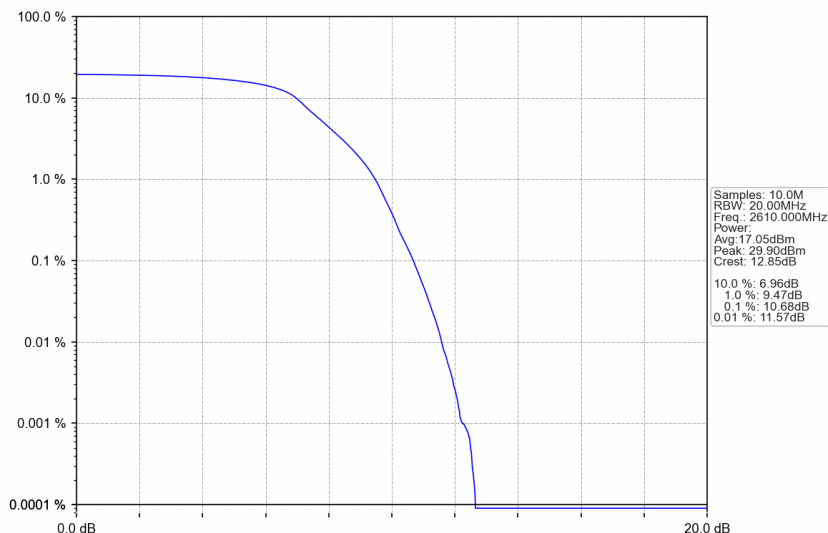


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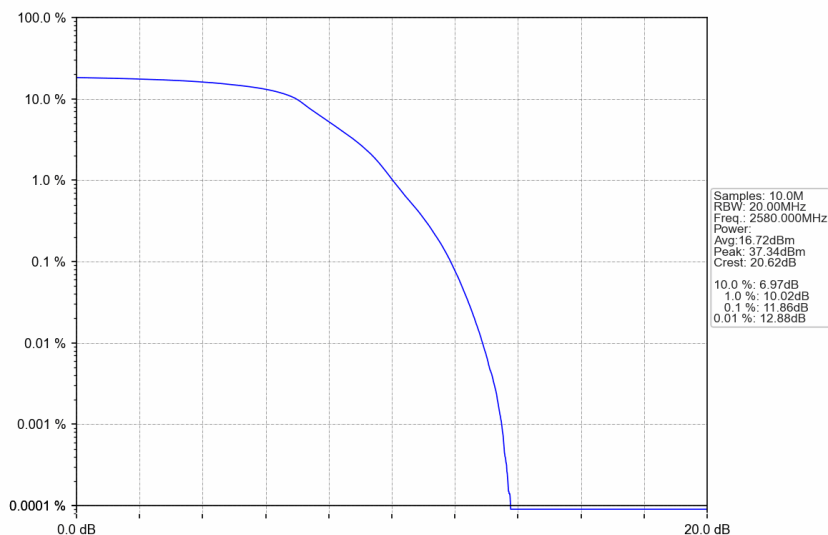
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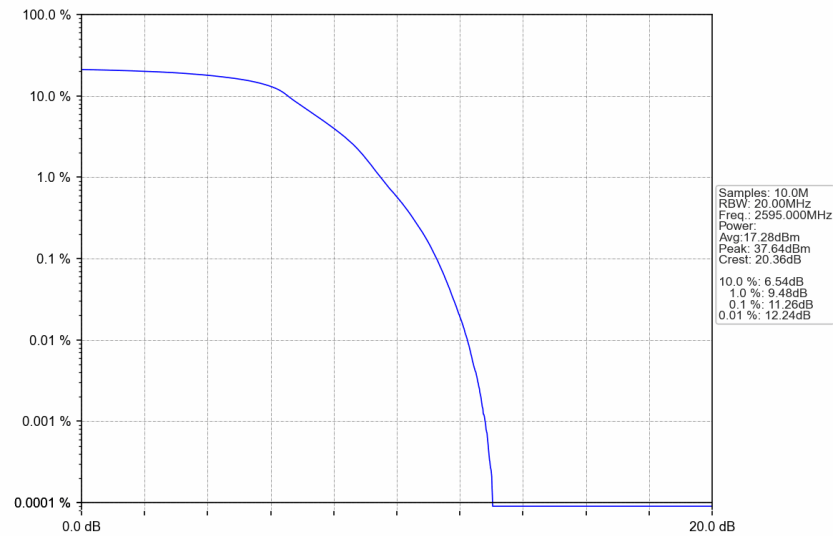
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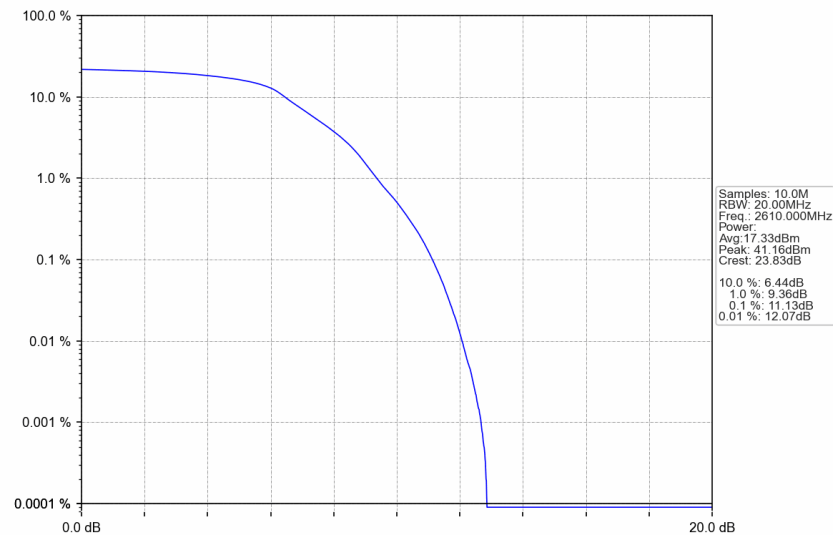
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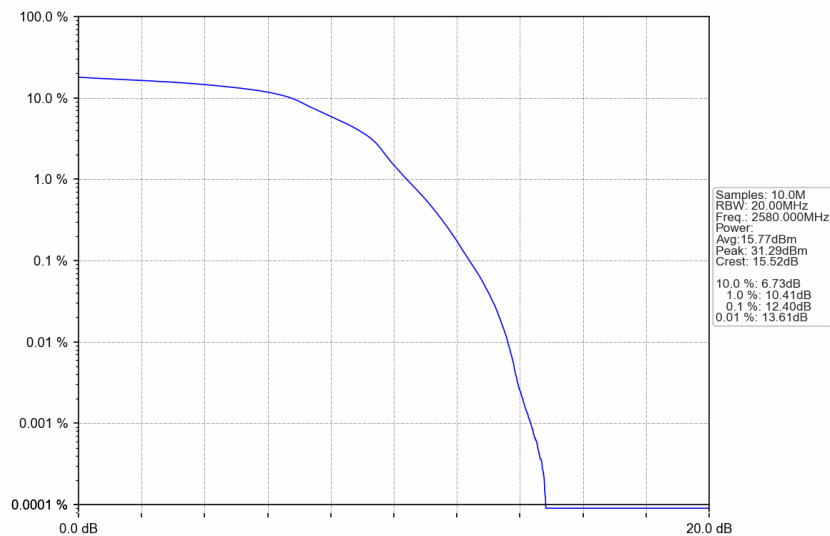


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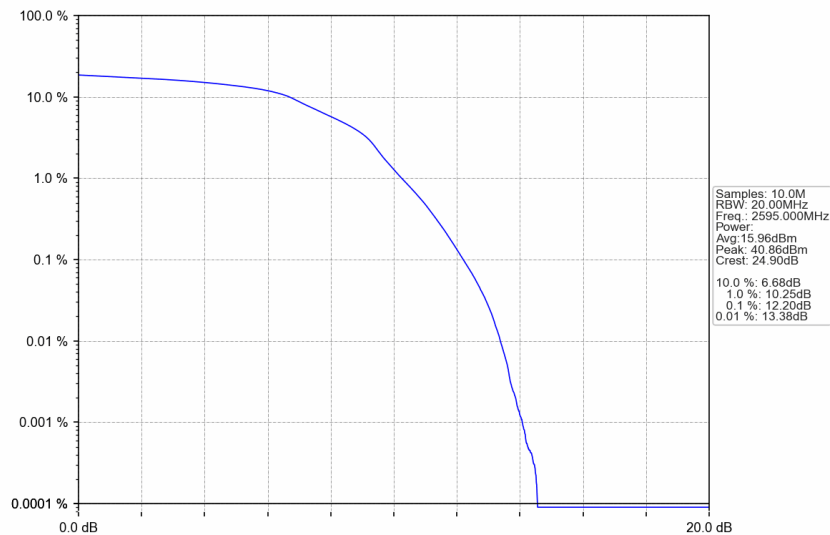
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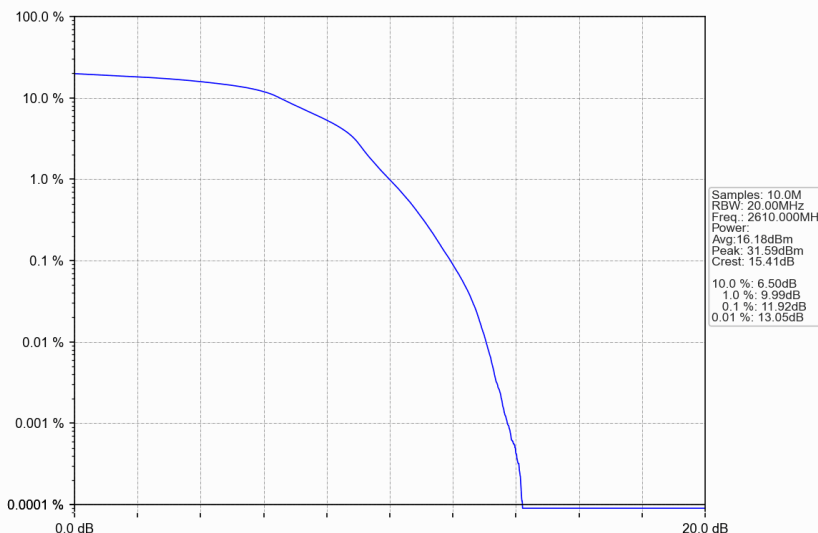
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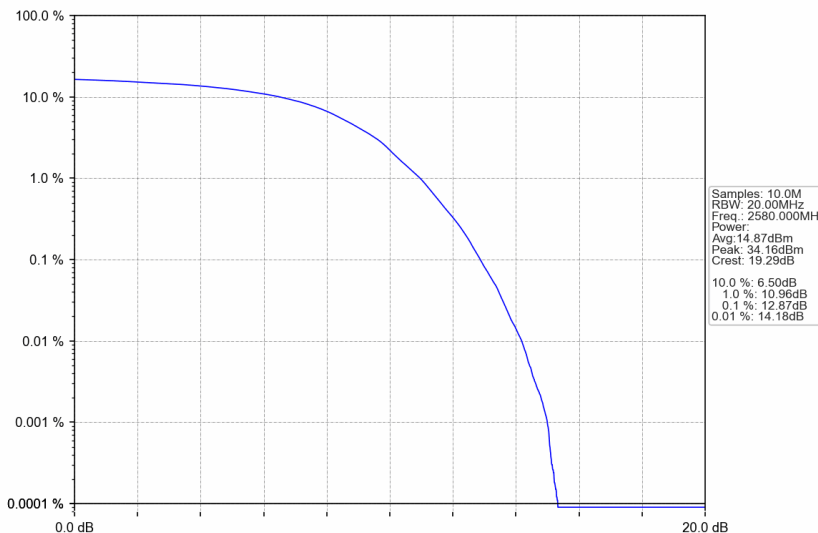
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n38_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 16 QAM_2610MHz_Outer_Full



n38_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 64 QAM_2580MHz_Outer_Full



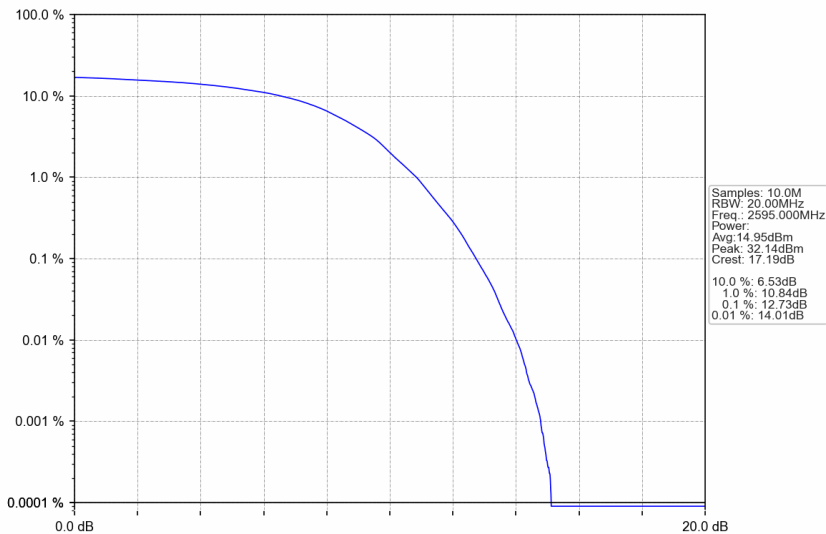
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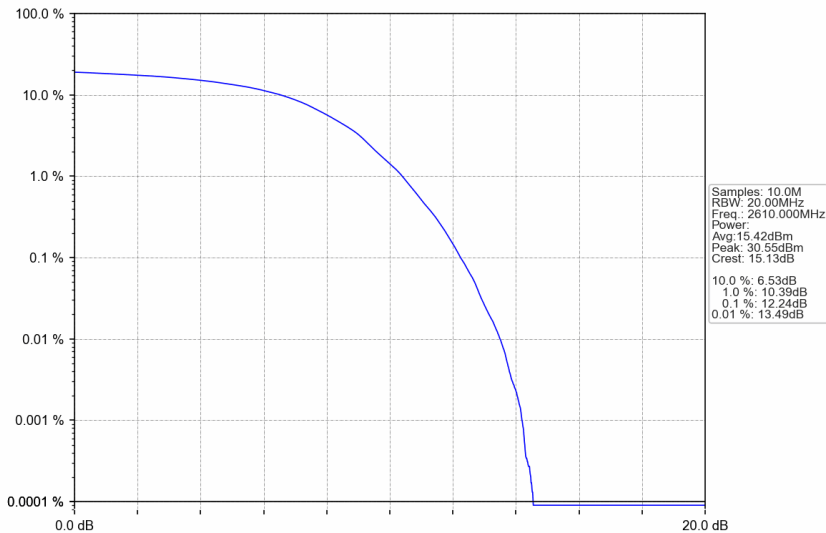
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n38_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 64 QAM_2595MHz_Outer_Full



n38_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 64 QAM_2610MHz_Outer_Full

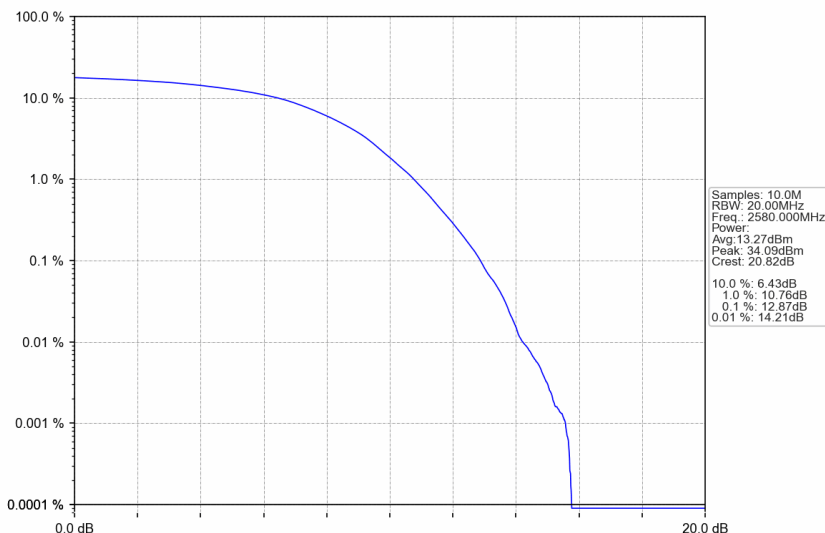


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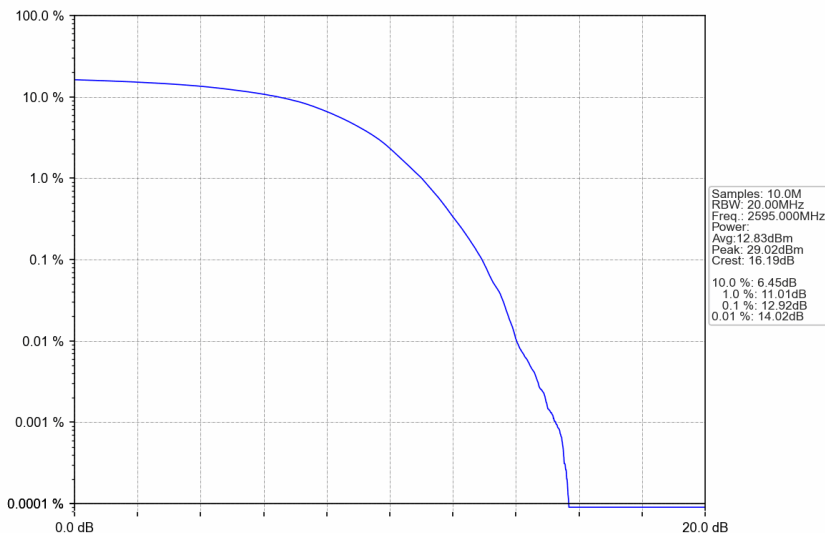
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n38_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 256 QAM_2580MHz_Outer_Full



n38_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 256 QAM_2595MHz_Outer_Full



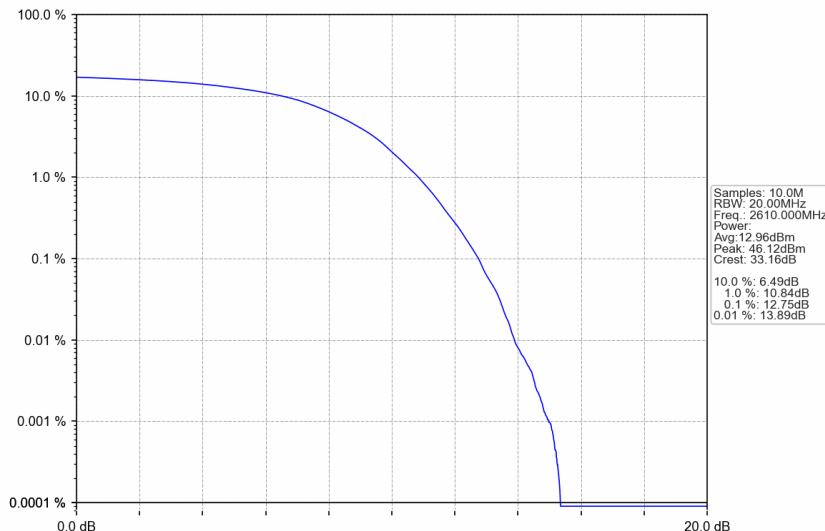
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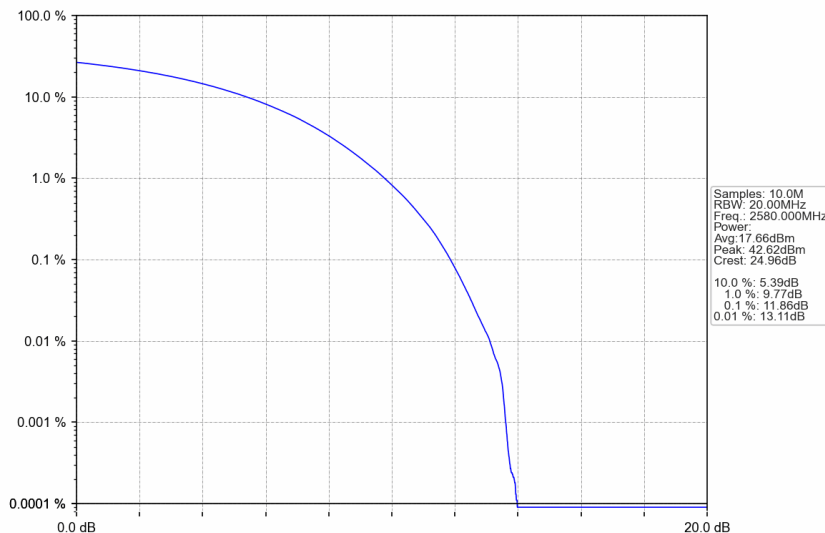
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n38_30kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_2580MHz_Outer_Full



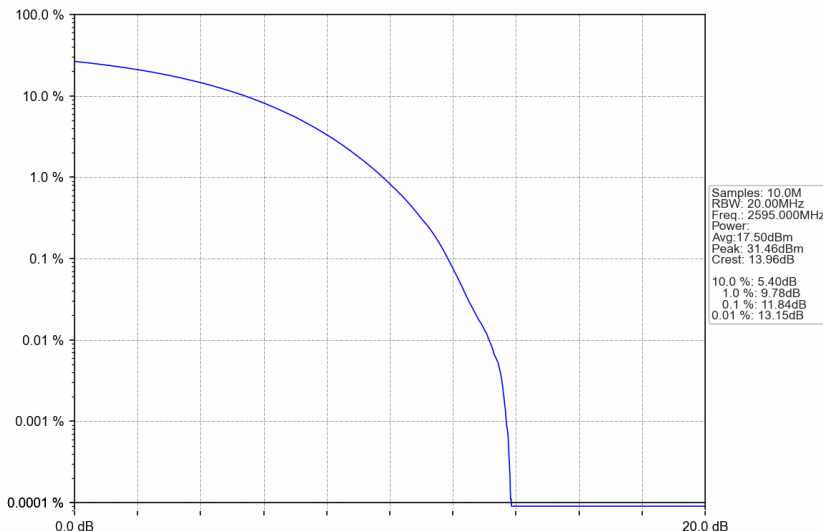
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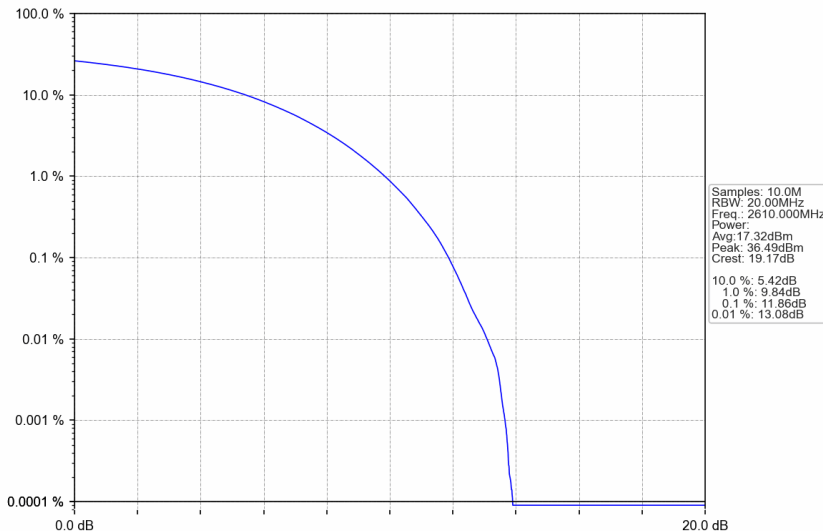
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n38_30kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_2595MHz_Outer_Full



n38_30kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_2610MHz_Outer_Full



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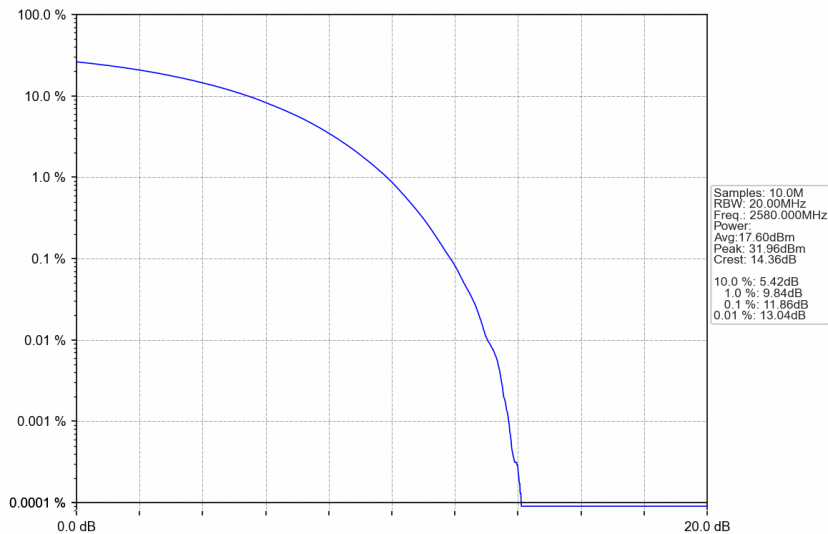
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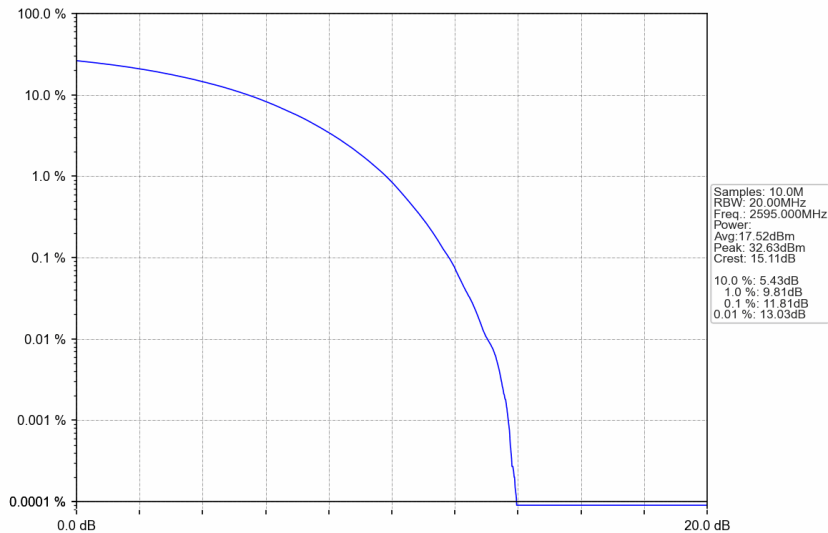
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n38_30kHz_SISO_NTNV_20MHz_CP-OFDM 16 QAM_2580MHz_Outer_Full



n38_30kHz_SISO_NTNV_20MHz_CP-OFDM 16 QAM_2595MHz_Outer_Full



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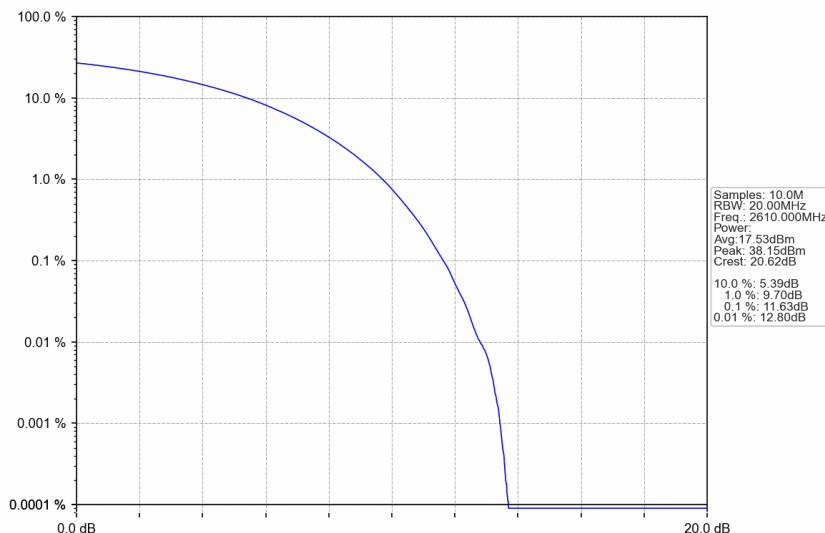


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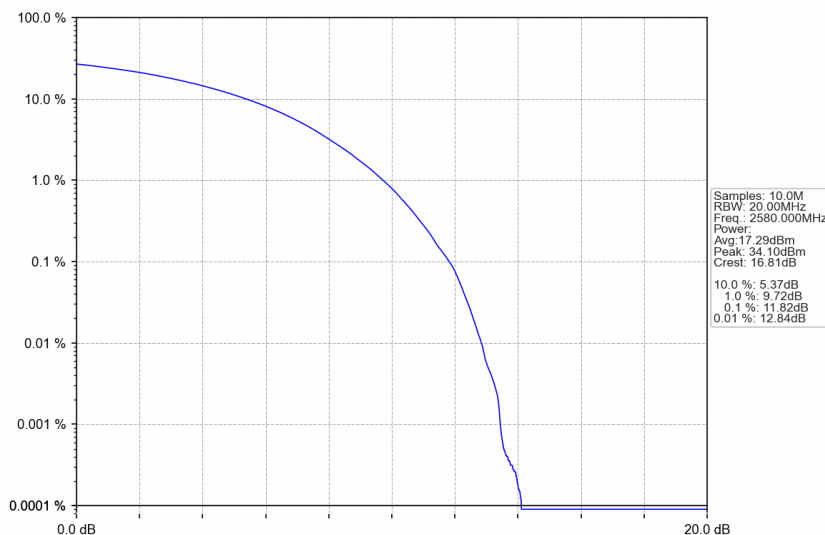
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n38_30kHz_SISO_NTNV_20MHz_CP-OFDM 16 QAM_2610MHz_Outer_Full



n38_30kHz_SISO_NTNV_20MHz_CP-OFDM 64 QAM_2580MHz_Outer_Full



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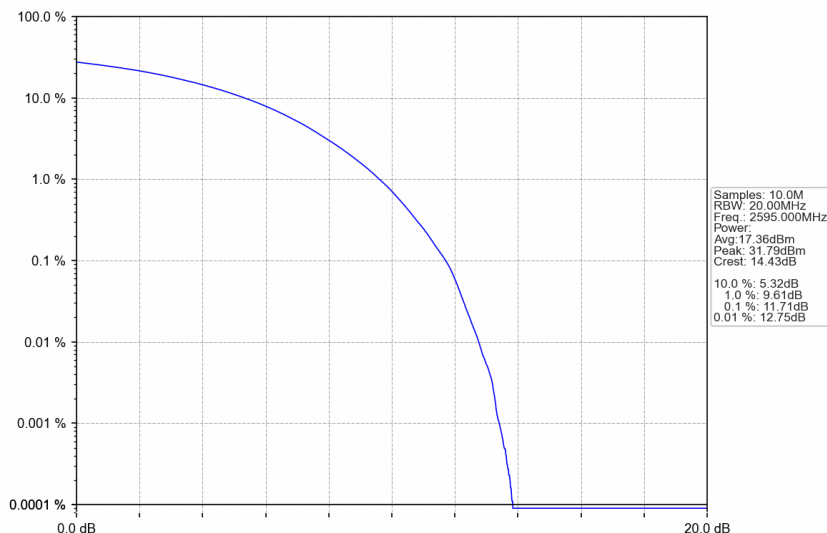


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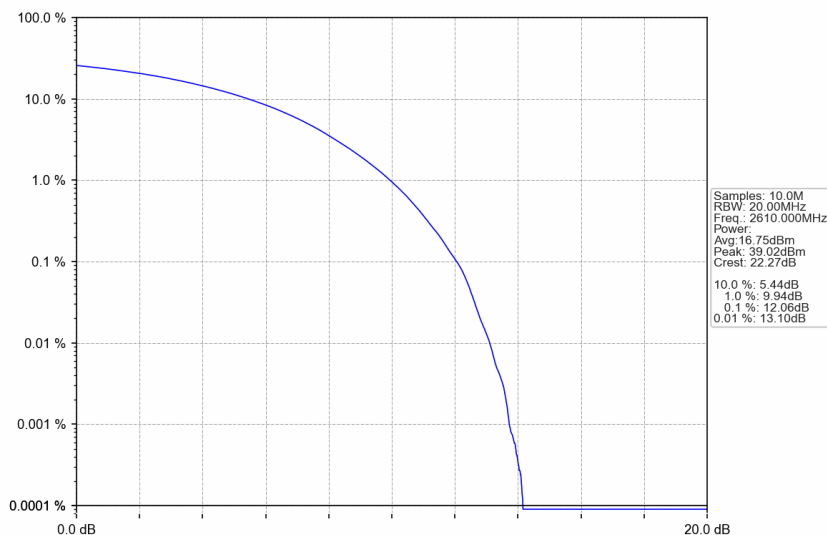
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n38_30kHz_SISO_NTNV_20MHz_CP-OFDM 64 QAM_2610MHz_Outer_Full



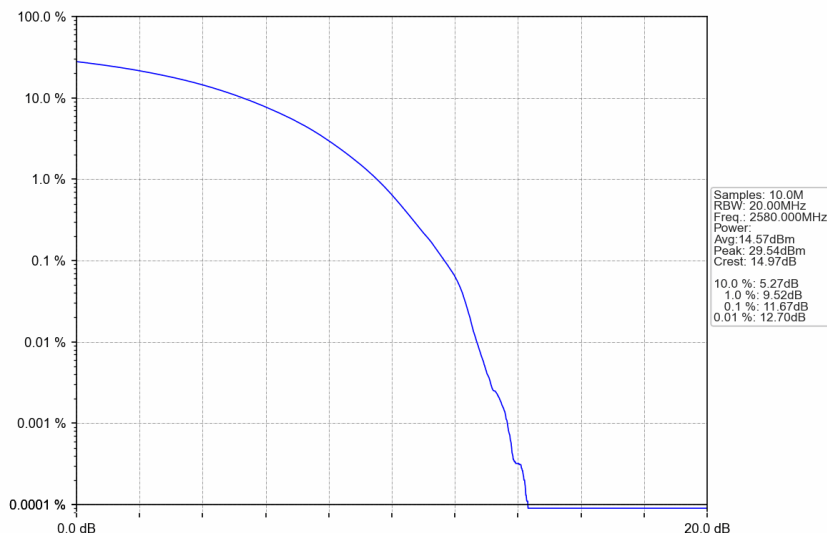
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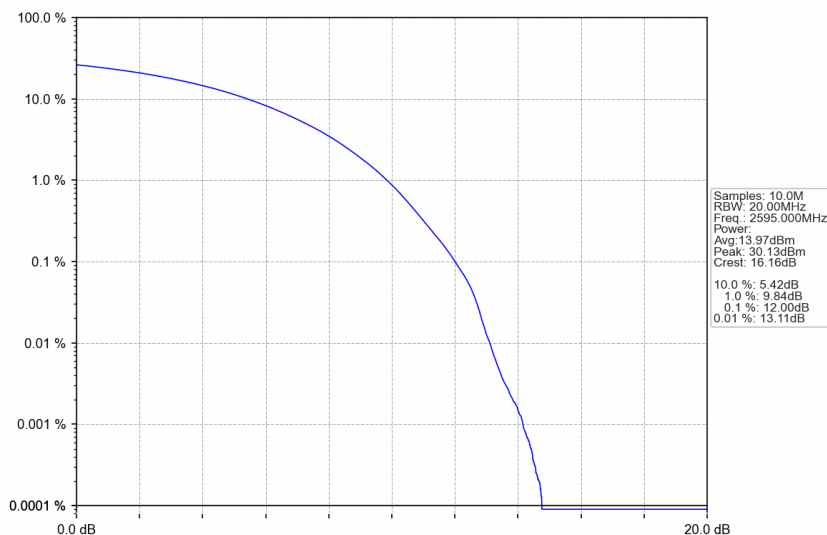
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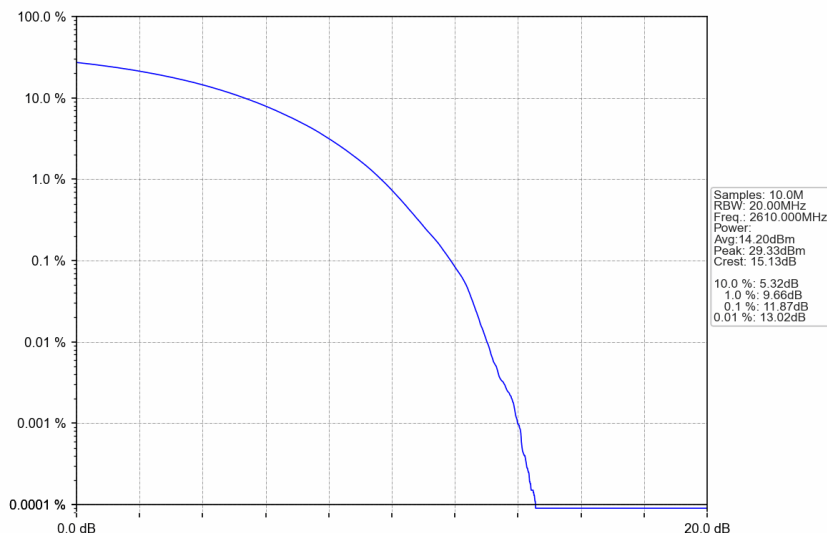
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Rev.: 01

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5.11 30k_SISO_25MHz_NTNV

5.11.1 Test Result

5G NR n38 SCS=30kHz SISO 25MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2582.5	Outer_Full	10.21	/	/	<=13	Pass
	2595	Outer_Full	9.84	/	/	<=13	Pass
	2607.5	Outer_Full	10.51	/	/	<=13	Pass
DFT-s-OFDM QPSK	2582.5	Outer_Full	11.03	/	/	<=13	Pass
	2595	Outer_Full	11.91	/	/	<=13	Pass
	2607.5	Outer_Full	11.73	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	2582.5	Outer_Full	12.72	/	/	<=13	Pass
	2595	Outer_Full	12.14	/	/	<=13	Pass
	2607.5	Outer_Full	12.60	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	2582.5	Outer_Full	12.47	/	/	<=13	Pass
	2595	Outer_Full	12.75	/	/	<=13	Pass
	2607.5	Outer_Full	12.46	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	2582.5	Outer_Full	12.85	/	/	<=13	Pass
	2595	Outer_Full	12.40	/	/	<=13	Pass
	2607.5	Outer_Full	12.84	/	/	<=13	Pass
CP-OFDM QPSK	2582.5	Outer_Full	11.66	/	/	<=13	Pass
	2595	Outer_Full	11.50	/	/	<=13	Pass
	2607.5	Outer_Full	11.70	/	/	<=13	Pass
CP-OFDM 16 QAM	2582.5	Outer_Full	11.81	/	/	<=13	Pass
	2595	Outer_Full	11.74	/	/	<=13	Pass
	2607.5	Outer_Full	11.63	/	/	<=13	Pass
CP-OFDM 64 QAM	2582.5	Outer_Full	11.70	/	/	<=13	Pass
	2595	Outer_Full	11.85	/	/	<=13	Pass
	2607.5	Outer_Full	11.91	/	/	<=13	Pass
CP-OFDM 256 QAM	2582.5	Outer_Full	12.21	/	/	<=13	Pass
	2595	Outer_Full	11.53	/	/	<=13	Pass
	2607.5	Outer_Full	11.52	/	/	<=13	Pass

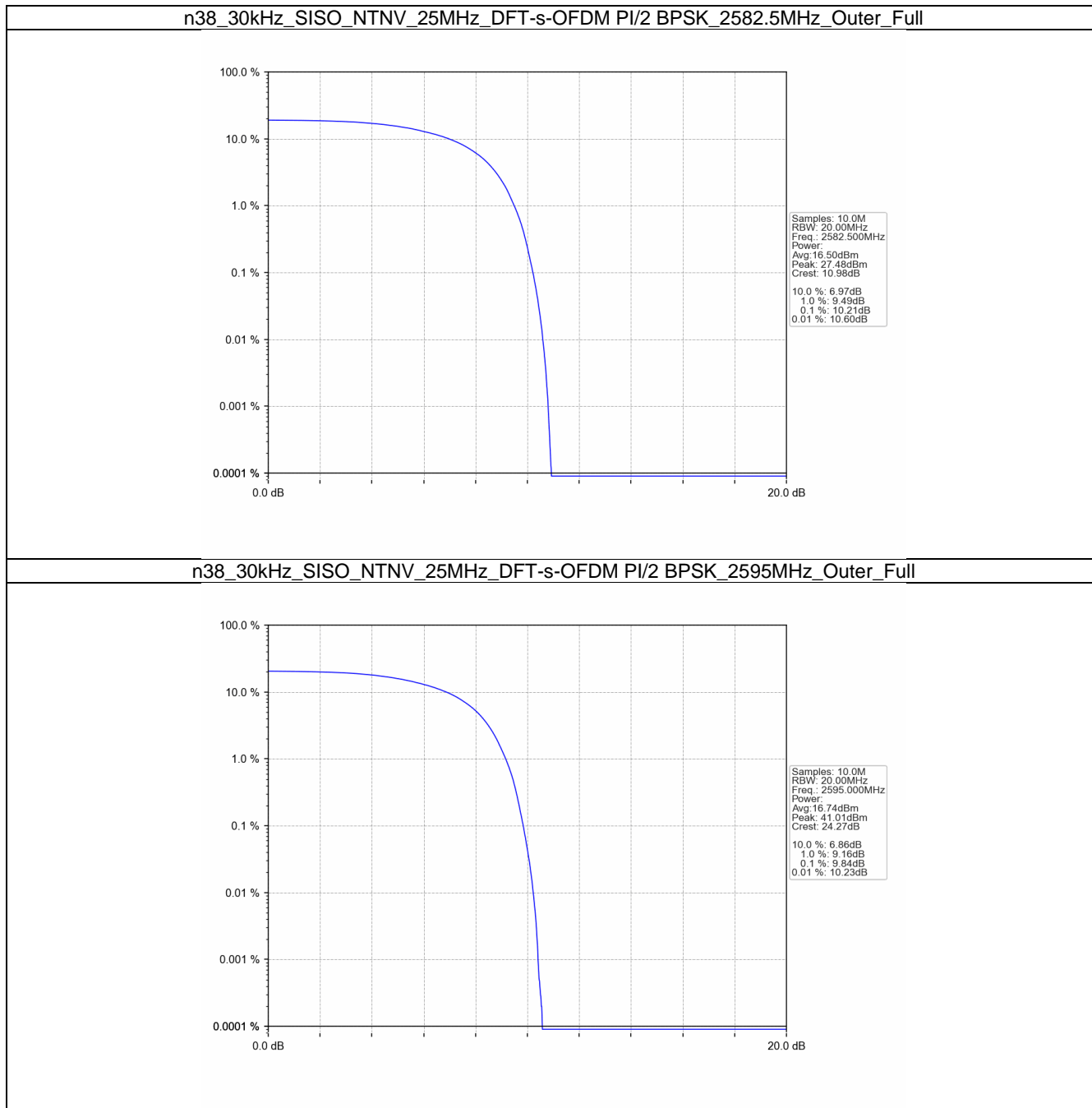


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5.11.2 Test Graph

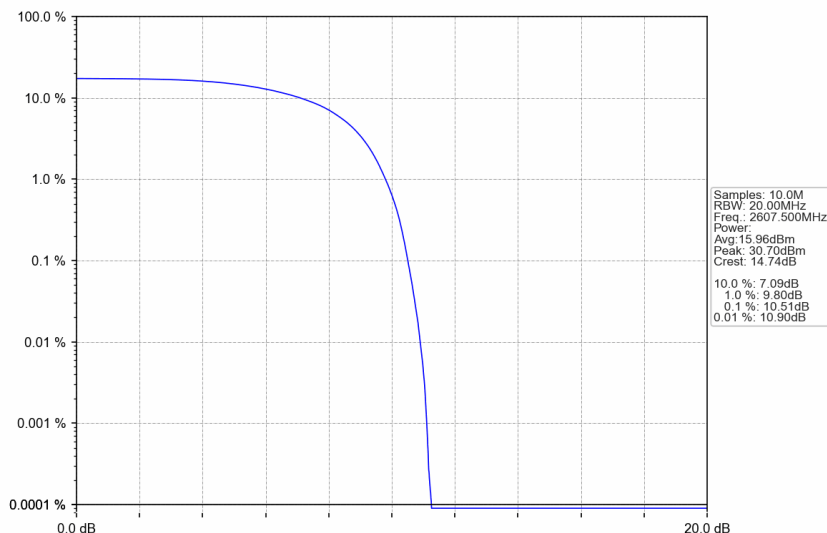


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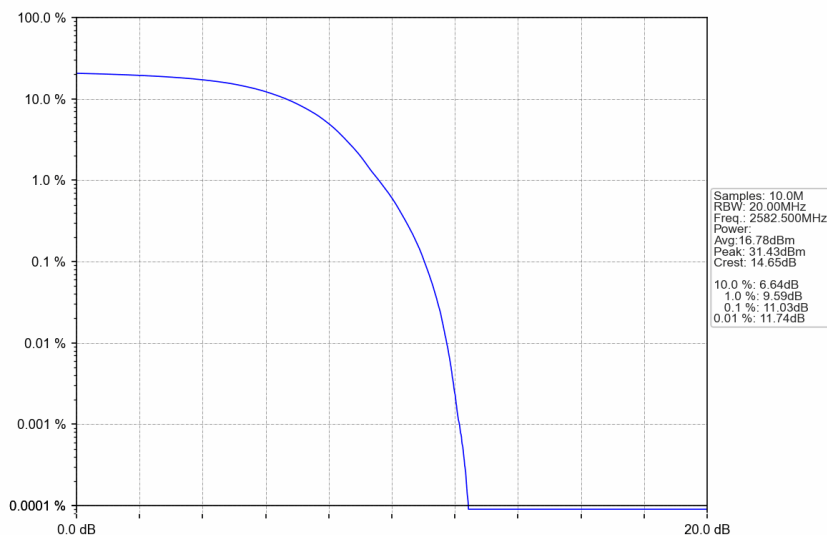
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n38_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM PI/2 BPSK_2607.5MHz_Outer_Full



n38_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM QPSK_2582.5MHz_Outer_Full

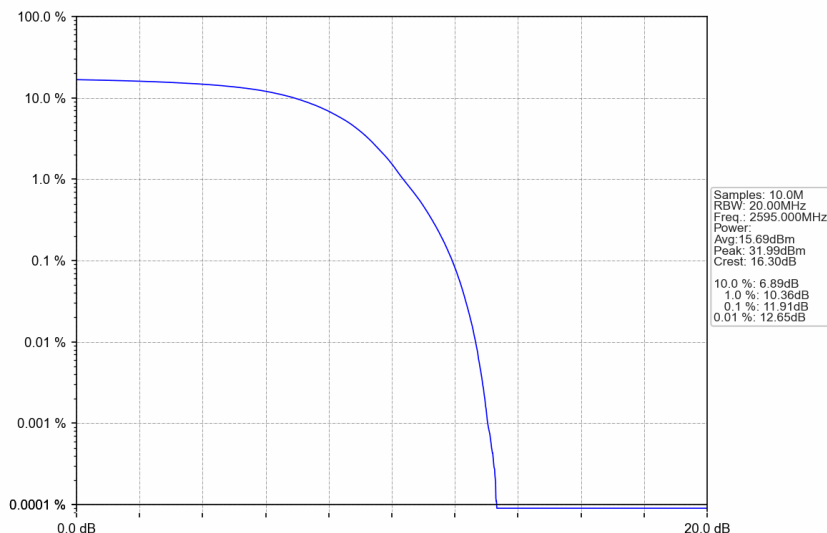


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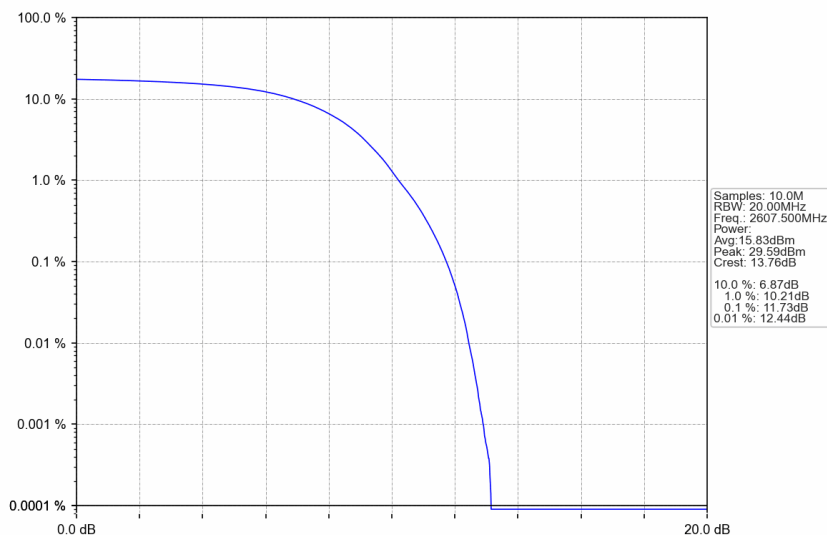
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n38_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM QPSK_2595MHz_Outer_Full



n38_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM QPSK_2607.5MHz_Outer_Full



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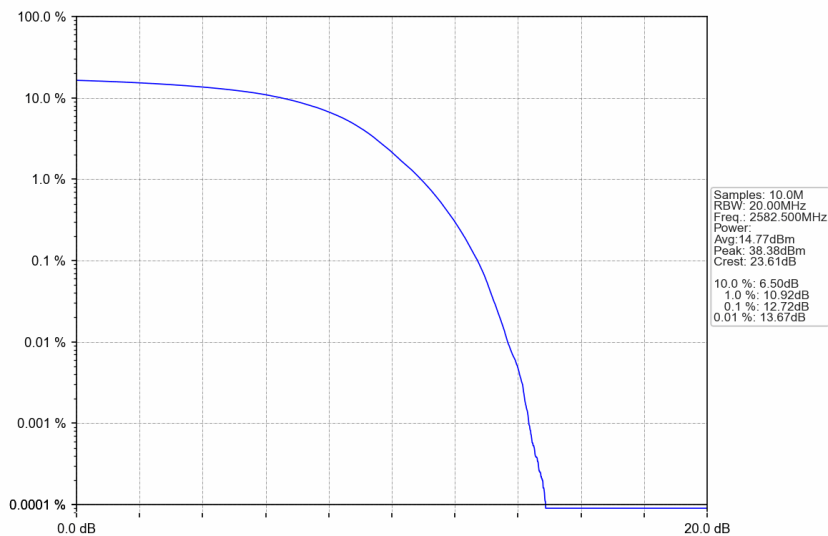
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Wireless Laboratory

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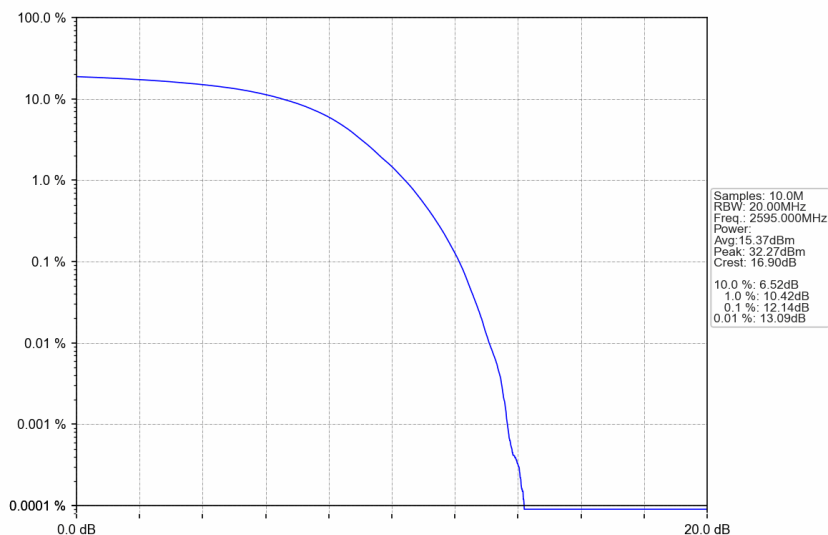
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n38_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM 16 QAM_2582.5MHz_Outer_Full



n38_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM 16 QAM_2595MHz_Outer_Full



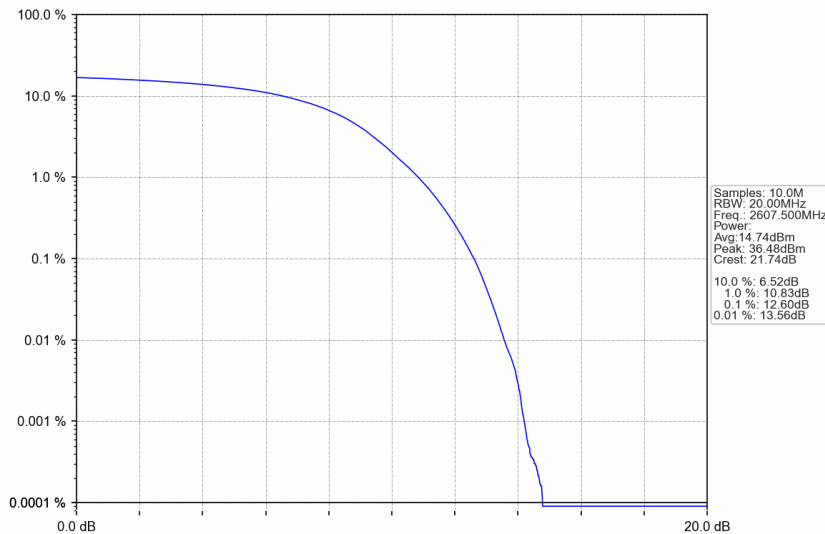
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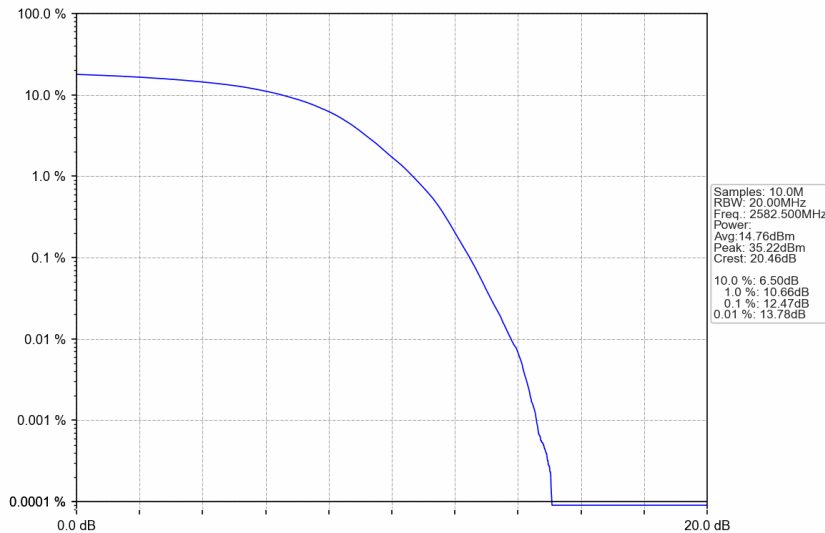
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n38_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM 16 QAM_2607.5MHz_Outer_Full



n38_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM 64 QAM_2582.5MHz_Outer_Full



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