

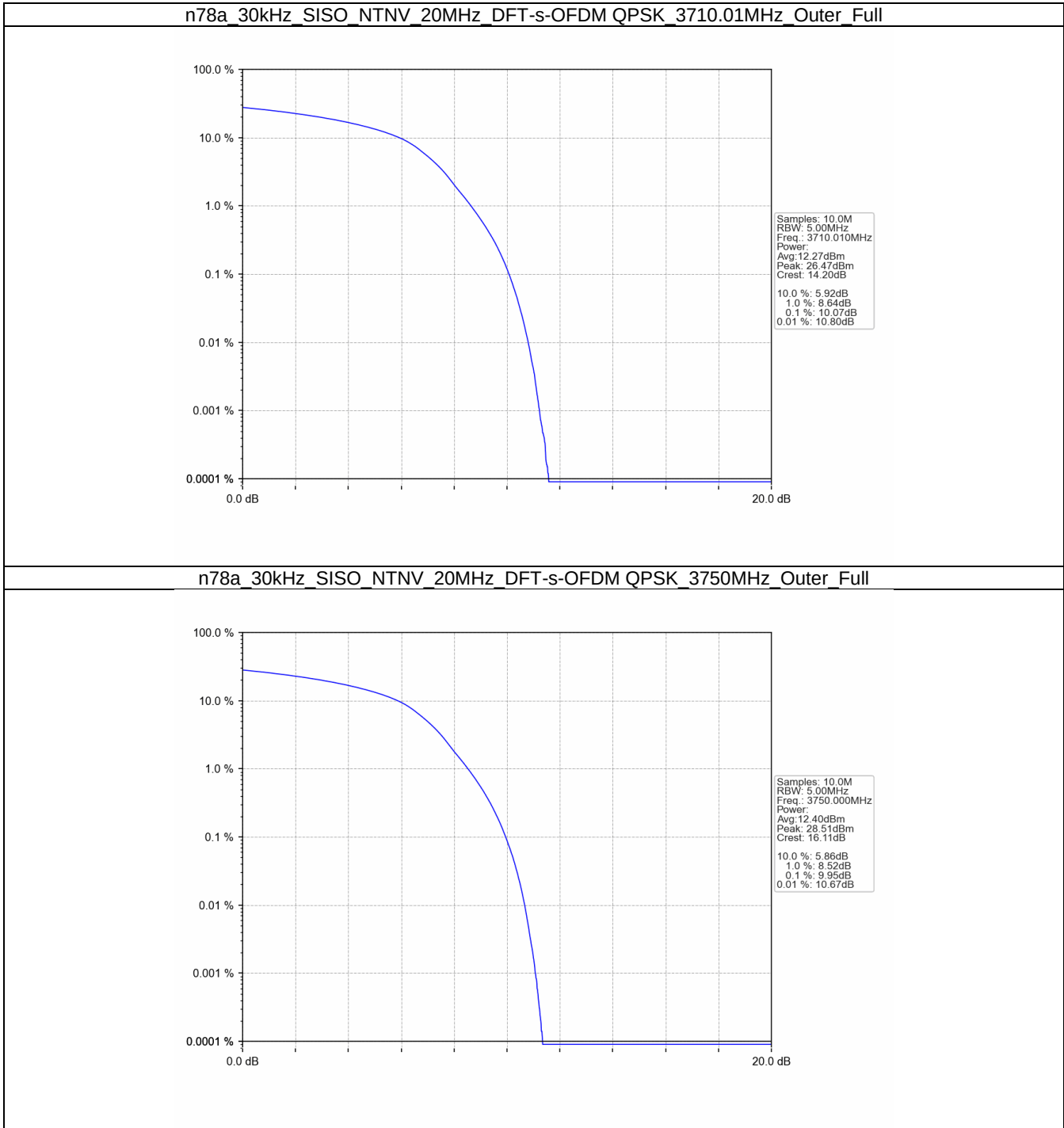
1. Peak-Average Ratio

1.1 30k_SISO_20MHz_NTNV

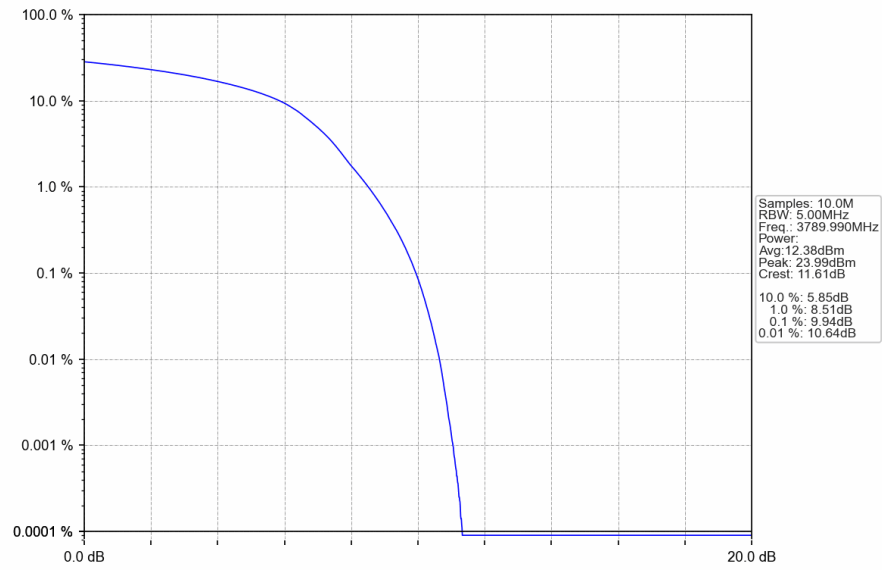
1.1.1 Test Result

5G NR n78a SCS=30kHz SISO 20MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM QPSK	3710.01	Outer_Full	10.07	/	/	<=13	Pass
	3750	Outer_Full	9.95	/	/	<=13	Pass
	3789.99	Outer_Full	9.94	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3710.01	Outer_Full	10.66	/	/	<=13	Pass
	3750	Outer_Full	10.77	/	/	<=13	Pass
	3789.99	Outer_Full	10.64	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3710.01	Outer_Full	10.78	/	/	<=13	Pass
	3750	Outer_Full	10.83	/	/	<=13	Pass
	3789.99	Outer_Full	10.87	/	/	<=13	Pass
CP-OFDM QPSK	3710.01	Outer_Full	12.06	/	/	<=13	Pass
	3750	Outer_Full	11.86	/	/	<=13	Pass
	3789.99	Outer_Full	11.85	/	/	<=13	Pass
CP-OFDM 64 QAM	3710.01	Outer_Full	12.04	/	/	<=13	Pass
	3750	Outer_Full	11.63	/	/	<=13	Pass
	3789.99	Outer_Full	11.66	/	/	<=13	Pass
CP-OFDM 256 QAM	3710.01	Outer_Full	11.74	/	/	<=13	Pass
	3750	Outer_Full	11.67	/	/	<=13	Pass
	3789.99	Outer_Full	11.67	/	/	<=13	Pass

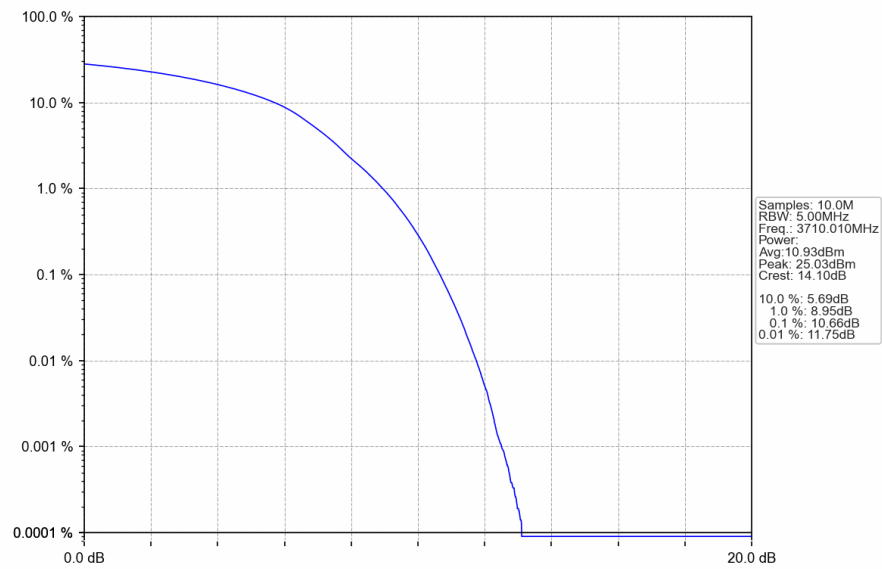
1.1.2 Test Graph



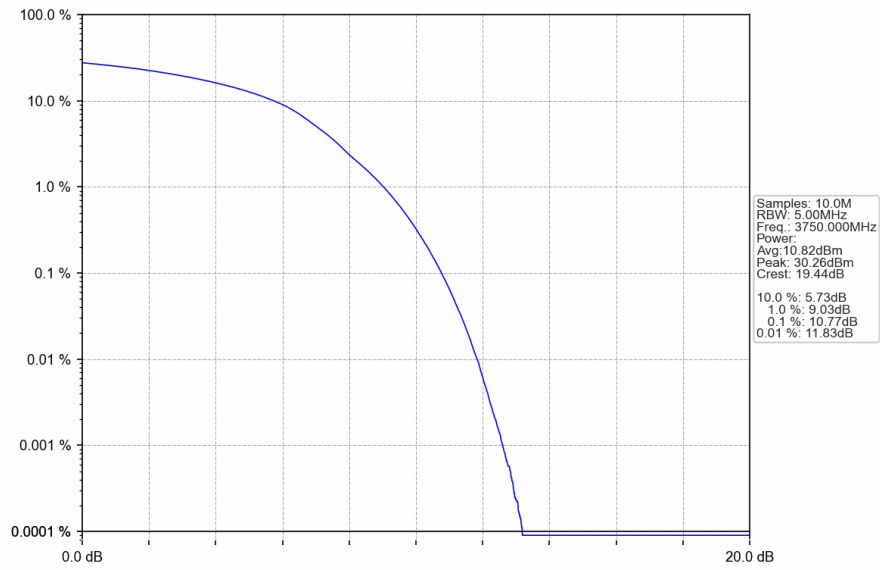
n78a_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_QPSK_3789.99MHz_Outer_Full



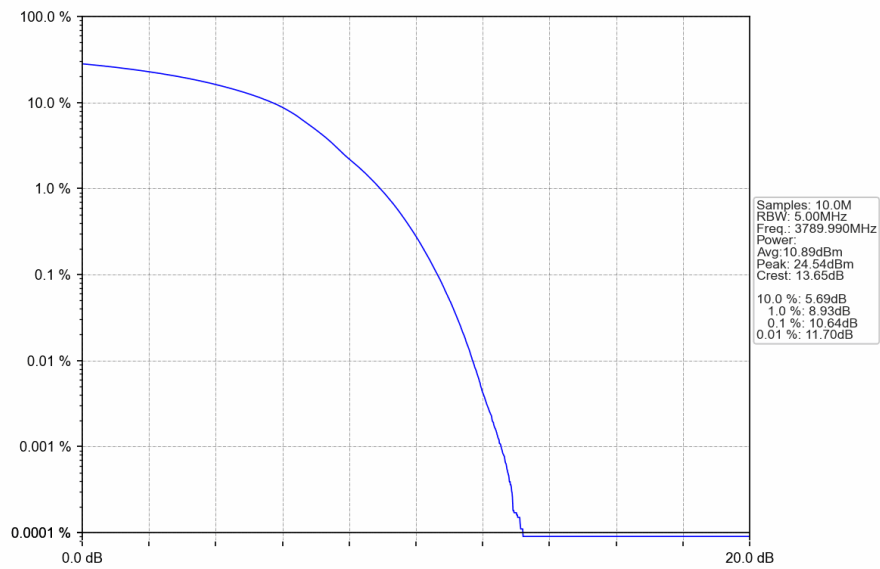
n78a_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_64_QAM_3710.01MHz_Outer_Full



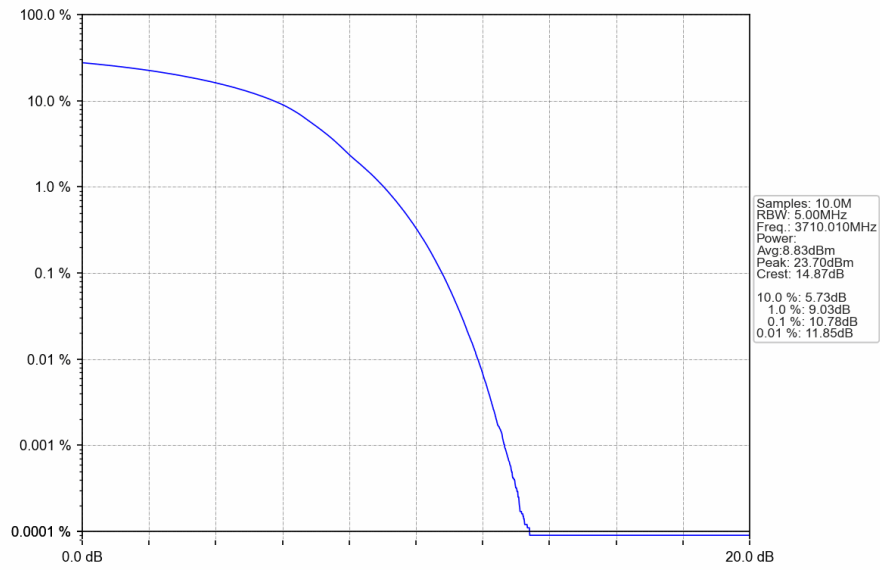
n78a_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_64_QAM_3750MHz_Outer_Full



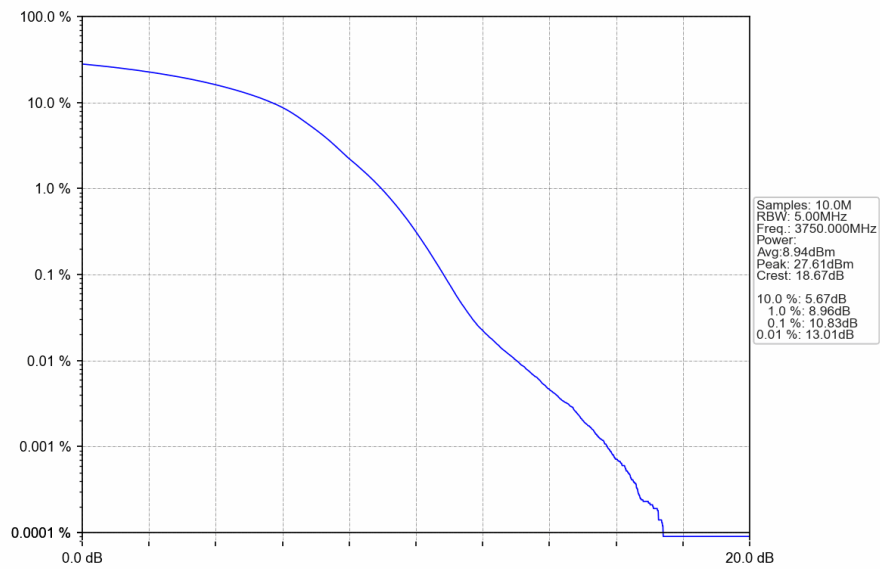
n78a_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_64_QAM_3789.99MHz_Outer_Full



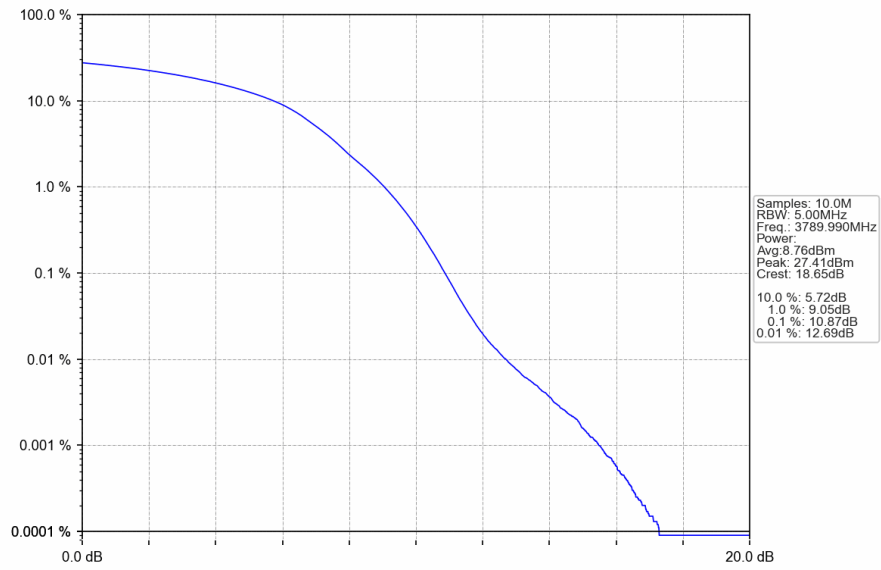
n78a_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_256_QAM_3710.01MHz_Outer_Full



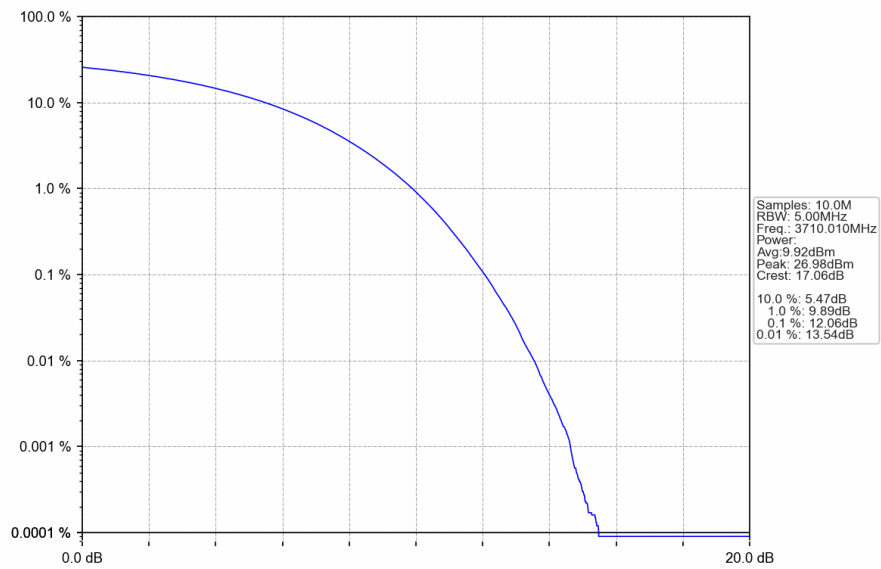
n78a_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_256_QAM_3750MHz_Outer_Full



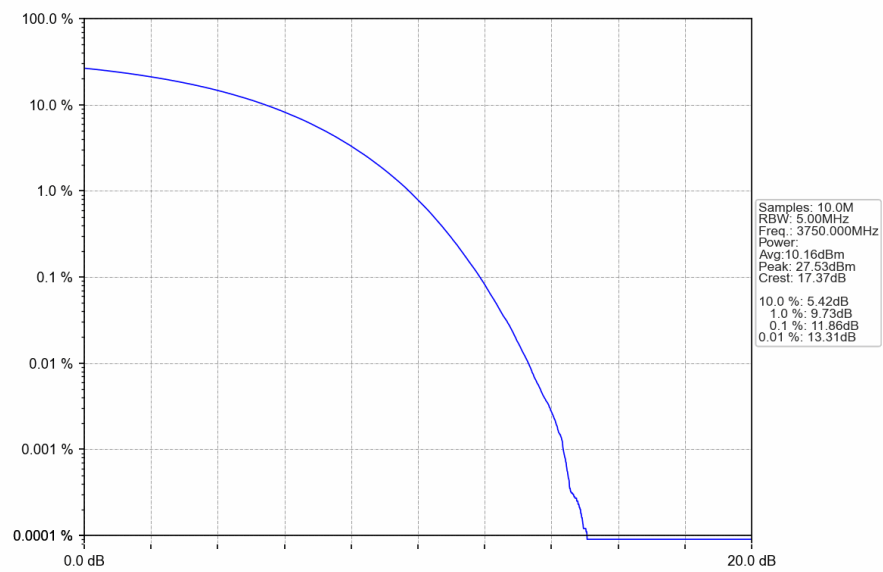
n78a_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_256_QAM_3789.99MHz_Outer_Full



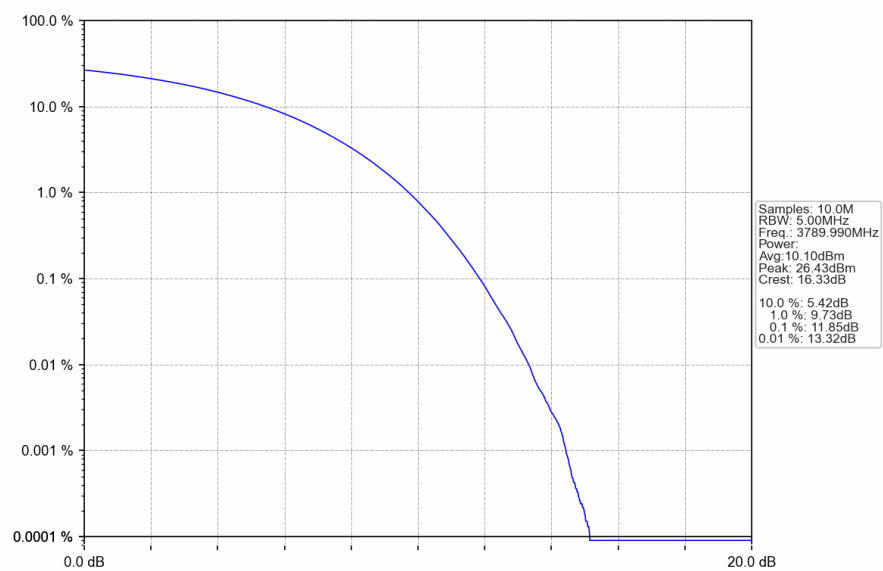
n78a_30kHz_SISO_NTNV_20MHz_CP-OFDM_QPSK_3710.01MHz_Outer_Full



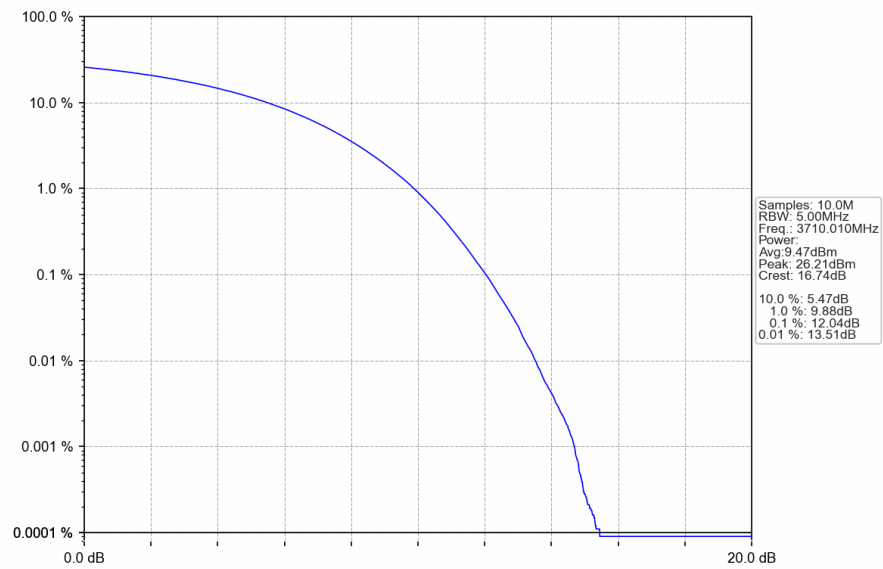
n78a 30kHz SISO_NTNV_20MHz_CP-OFDM QPSK_3750MHz_Outer_Full



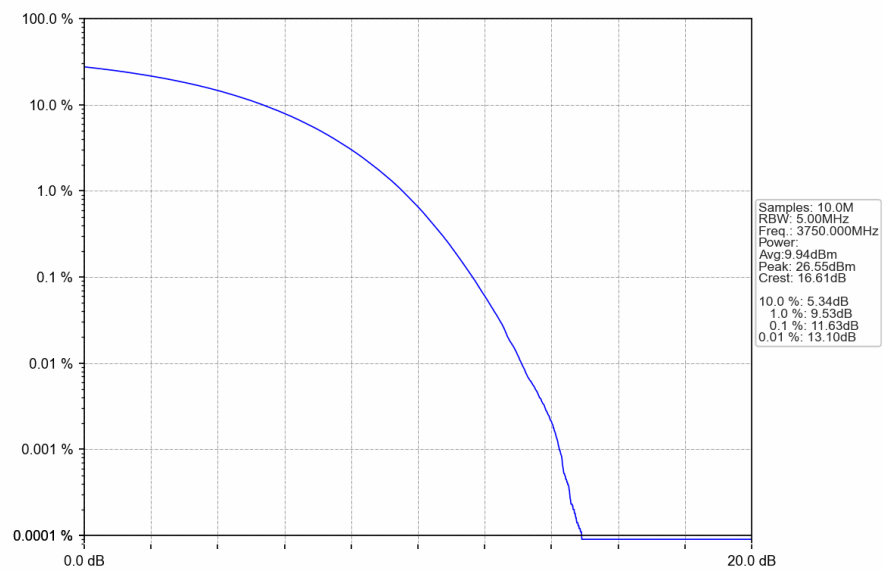
n78a 30kHz SISO_NTNV_20MHz_CP-OFDM QPSK_3789.99MHz_Outer_Full



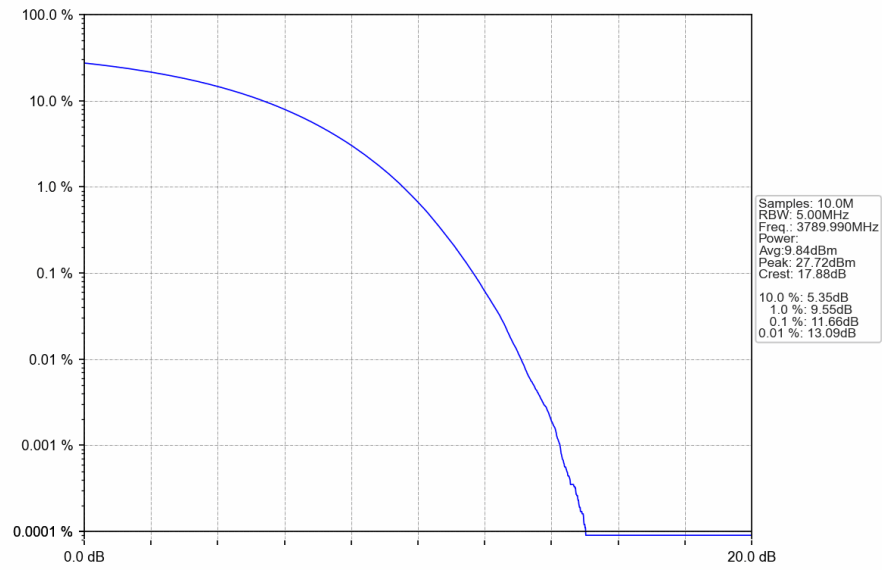
n78a 30kHz SISO NTN 20MHz CP-OFDM 64 QAM 3710.01MHz Outer Full



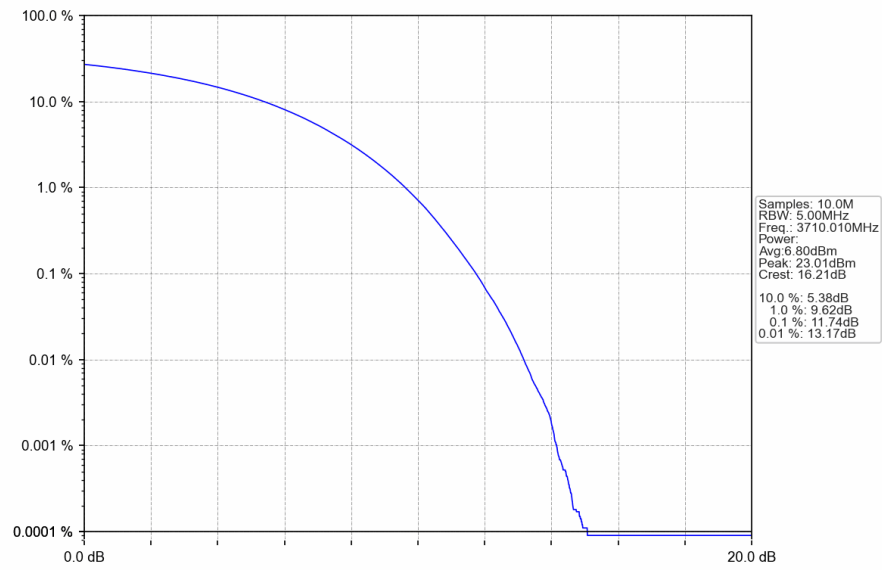
n78a 30kHz SISO NTN 20MHz CP-OFDM 64 QAM 3750MHz Outer Full



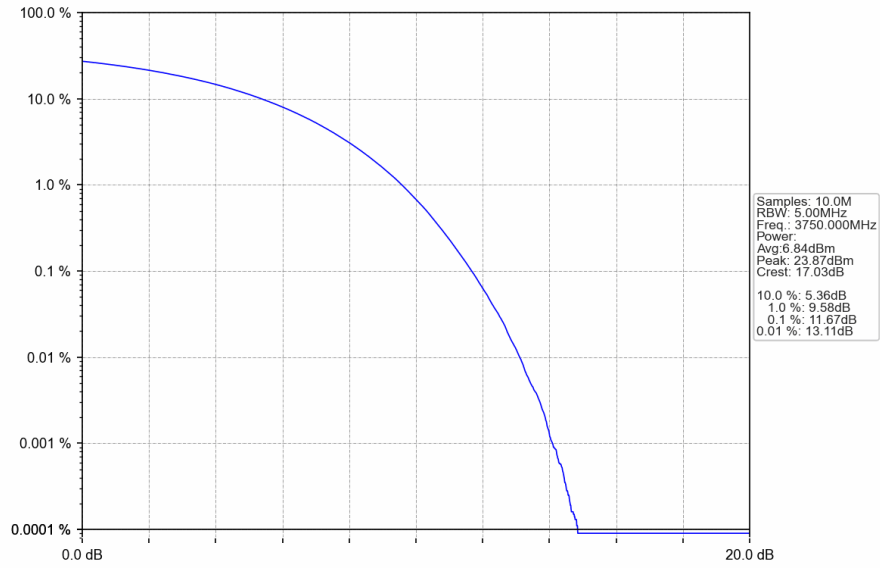
n78a_30kHz_SISO_NTNV_20MHz_CP-OFDM 64 QAM_3789.99MHz_Outer_Full



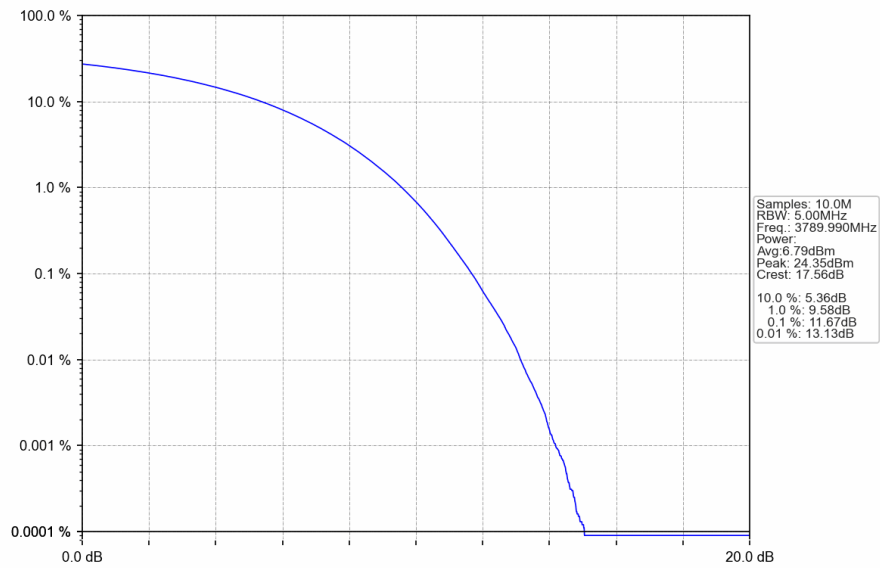
n78a_30kHz_SISO_NTNV_20MHz_CP-OFDM 256 QAM_3710.01MHz_Outer_Full



n78a_30kHz_SISO_NTNV_20MHz_CP-OFDM_256_QAM_3750MHz_Outer_Full



n78a_30kHz_SISO_NTNV_20MHz_CP-OFDM_256_QAM_3789.99MHz_Outer_Full

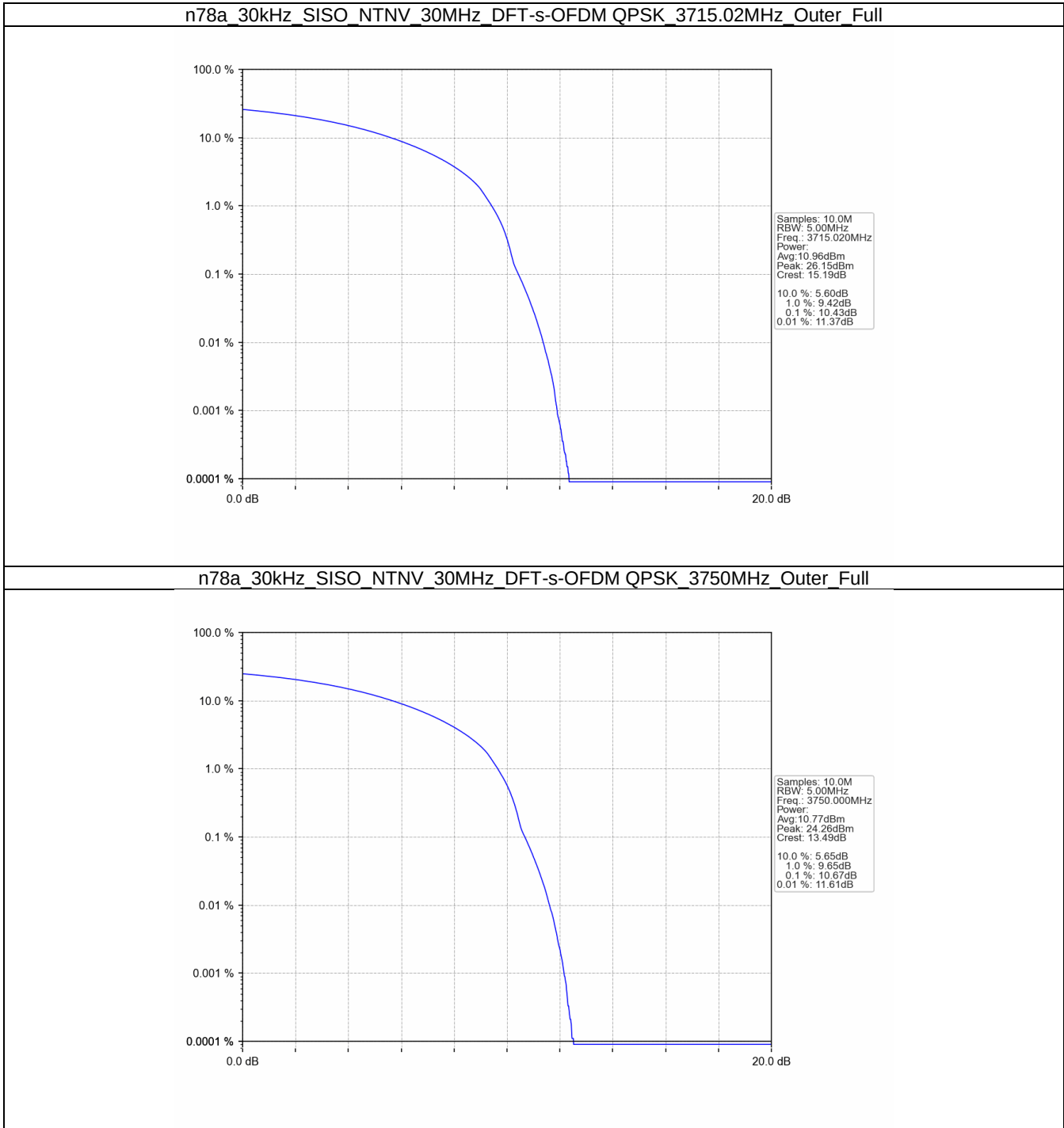


1.2 30k_SISO_30MHz_NTNV

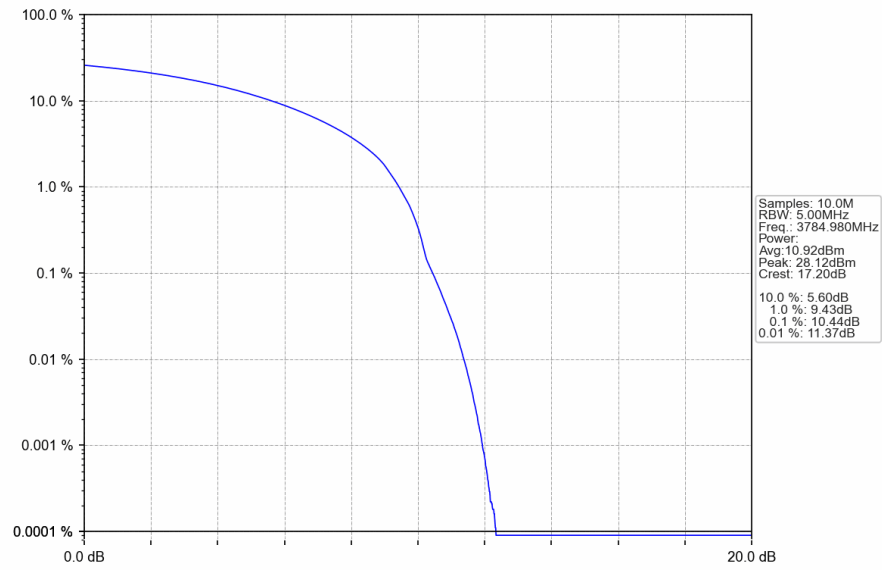
1.2.1 Test Result

5G NR n78a SCS=30kHz SISO 30MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM QPSK	3715.02	Outer_Full	10.43	/	/	<=13	Pass
	3750	Outer_Full	10.67	/	/	<=13	Pass
	3784.98	Outer_Full	10.44	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3715.02	Outer_Full	11.07	/	/	<=13	Pass
	3750	Outer_Full	11.01	/	/	<=13	Pass
	3784.98	Outer_Full	11.10	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3715.02	Outer_Full	10.99	/	/	<=13	Pass
	3750	Outer_Full	11.09	/	/	<=13	Pass
	3784.98	Outer_Full	11.29	/	/	<=13	Pass
CP-OFDM QPSK	3715.02	Outer_Full	11.90	/	/	<=13	Pass
	3750	Outer_Full	11.80	/	/	<=13	Pass
	3784.98	Outer_Full	11.90	/	/	<=13	Pass
CP-OFDM 64 QAM	3715.02	Outer_Full	11.81	/	/	<=13	Pass
	3750	Outer_Full	11.87	/	/	<=13	Pass
	3784.98	Outer_Full	11.95	/	/	<=13	Pass
CP-OFDM 256 QAM	3715.02	Outer_Full	11.87	/	/	<=13	Pass
	3750	Outer_Full	11.93	/	/	<=13	Pass
	3784.98	Outer_Full	12.06	/	/	<=13	Pass

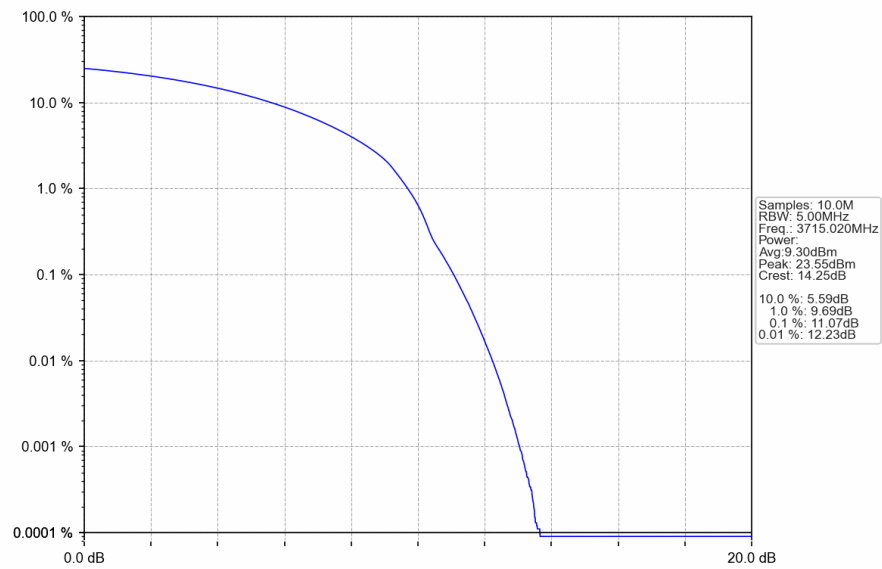
1.2.2 Test Graph



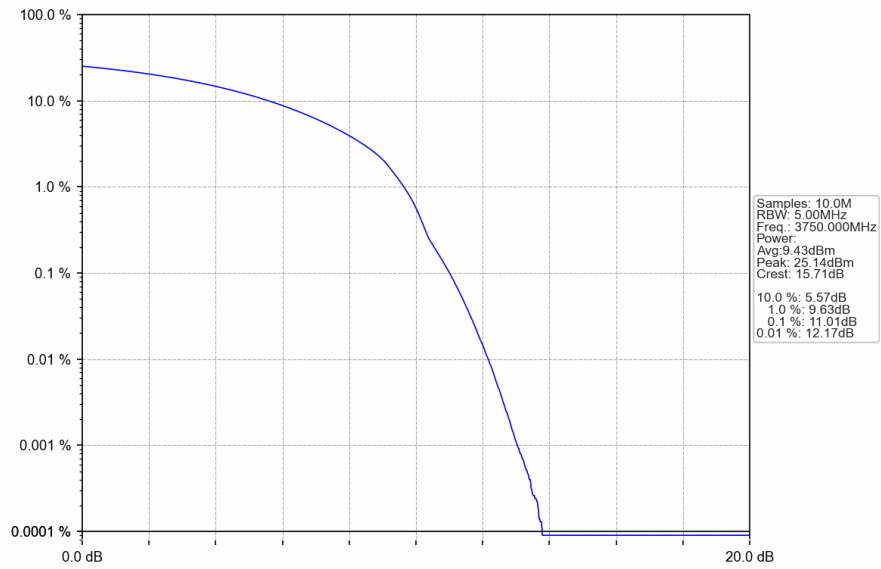
n78a_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM QPSK_3784.98MHz_Outer_Full



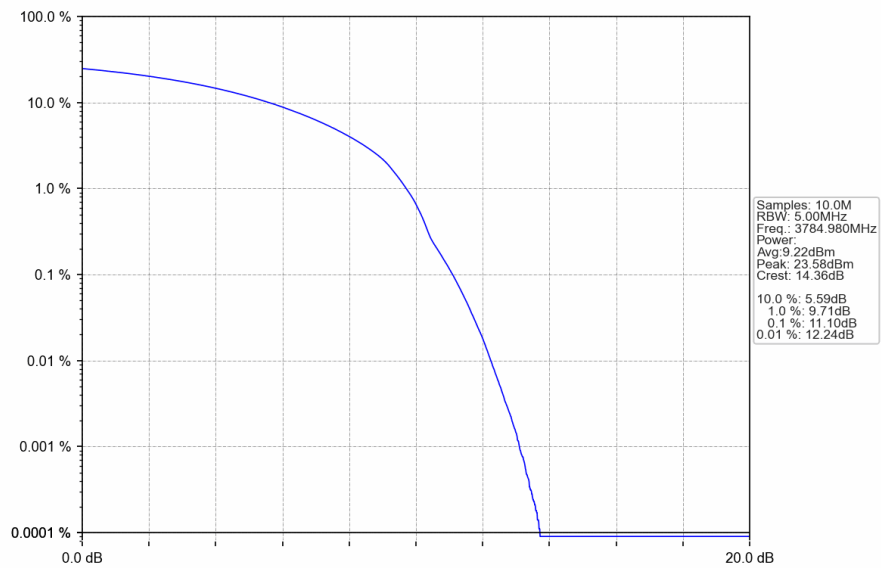
n78a_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM 64 QAM_3715.02MHz_Outer_Full



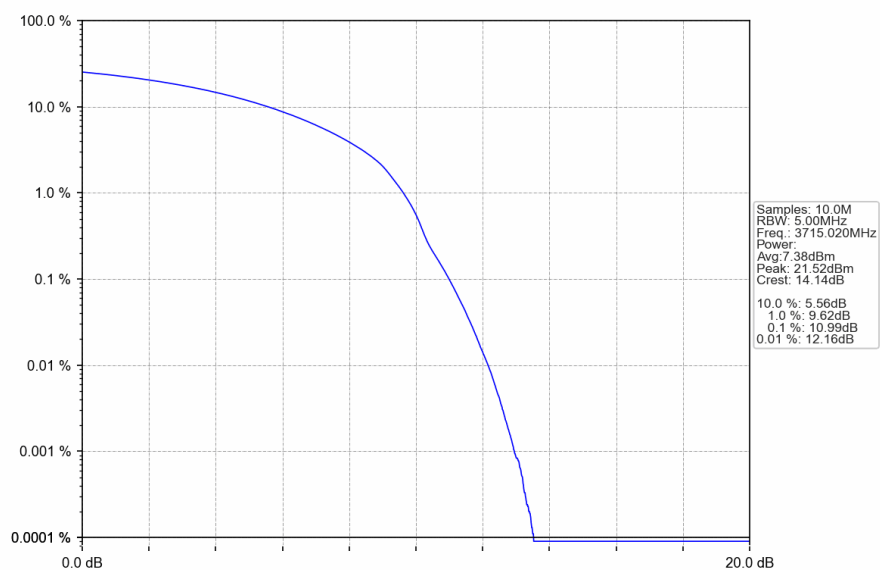
n78a_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM 64 QAM_3750MHz_Outer_Full



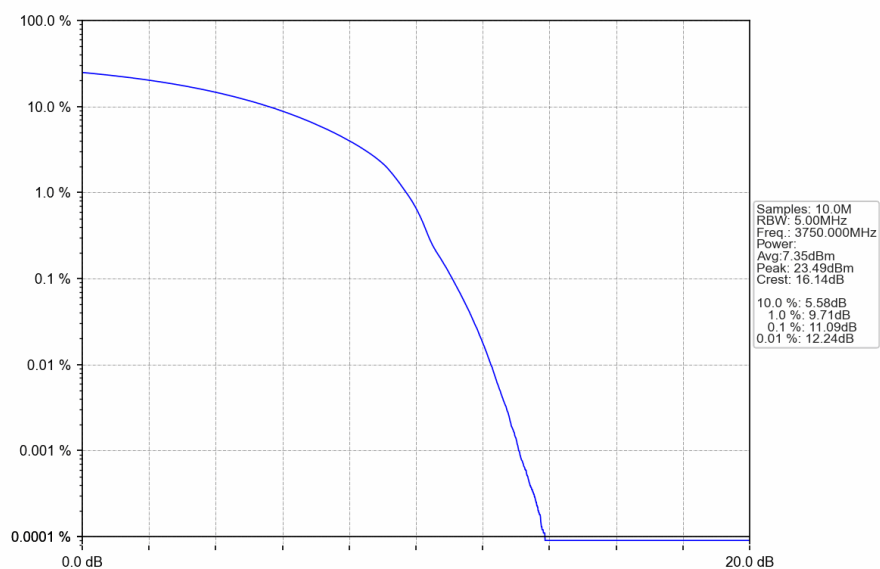
n78a_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_64_QAM_3784.98MHz_Outer_Full



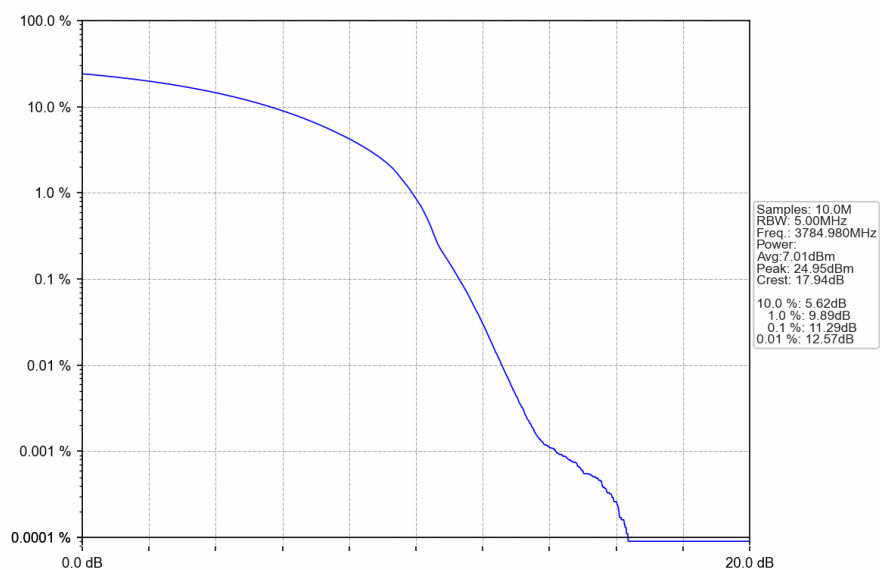
n78a_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_256_QAM_3715.02MHz_Outer_Full



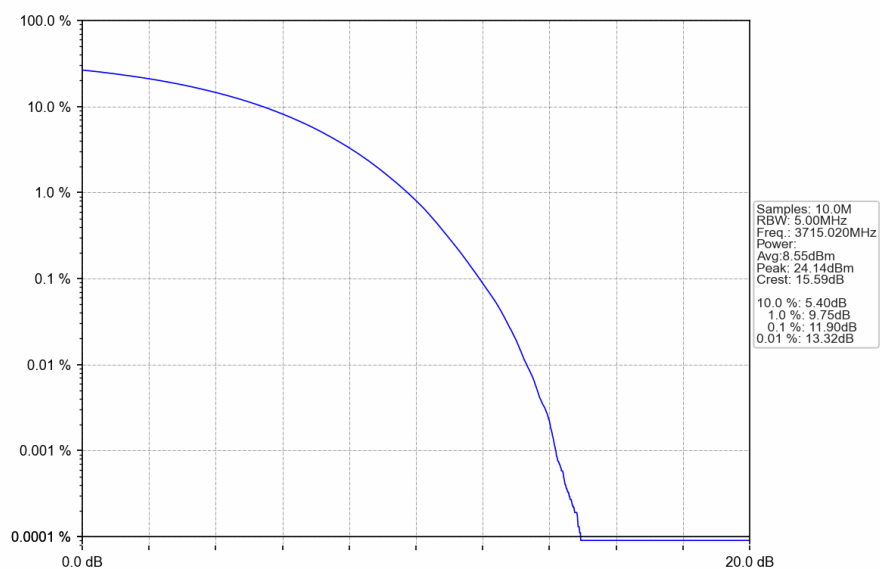
n78a_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_256_QAM_3750MHz_Outer_Full



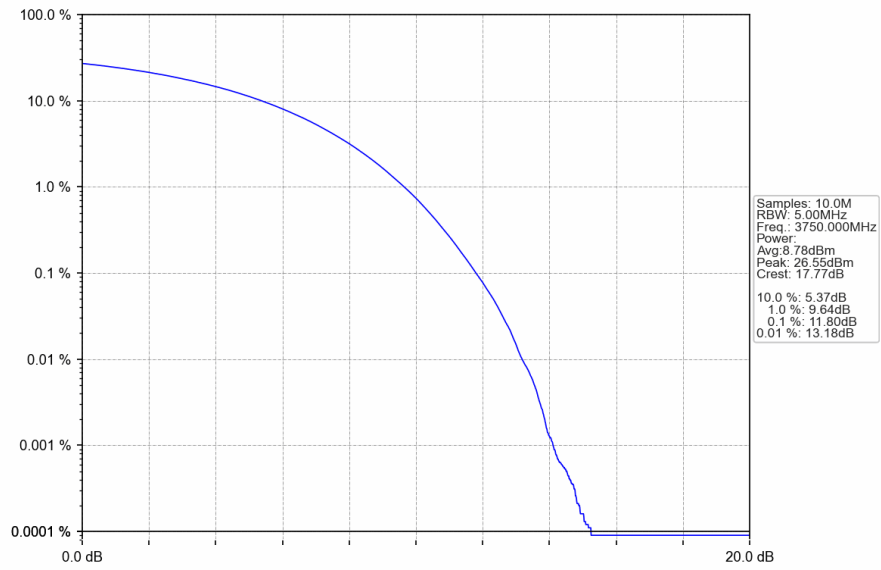
n78a_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_256_QAM_3784.98MHz_Outer_Full



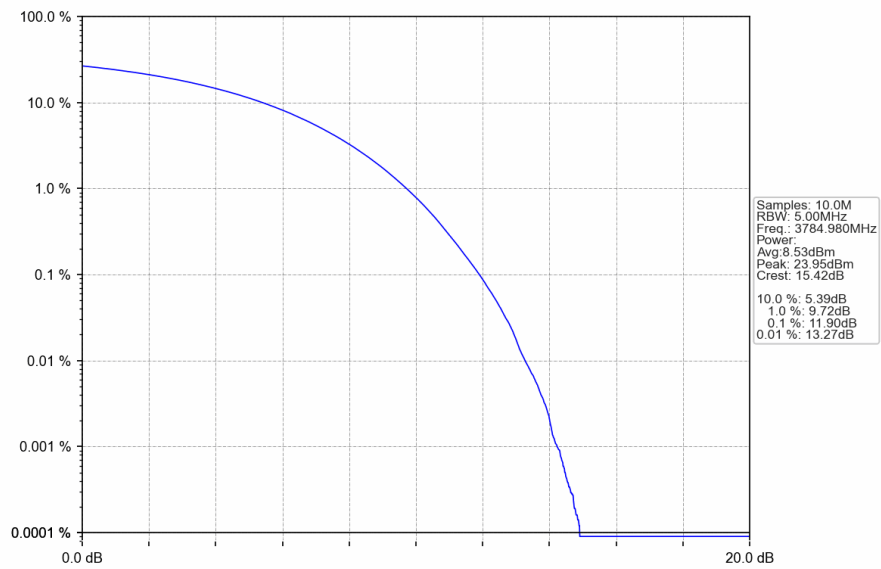
n78a_30kHz_SISO_NTNV_30MHz_CP-OFDM_QPSK_3715.02MHz_Outer_Full



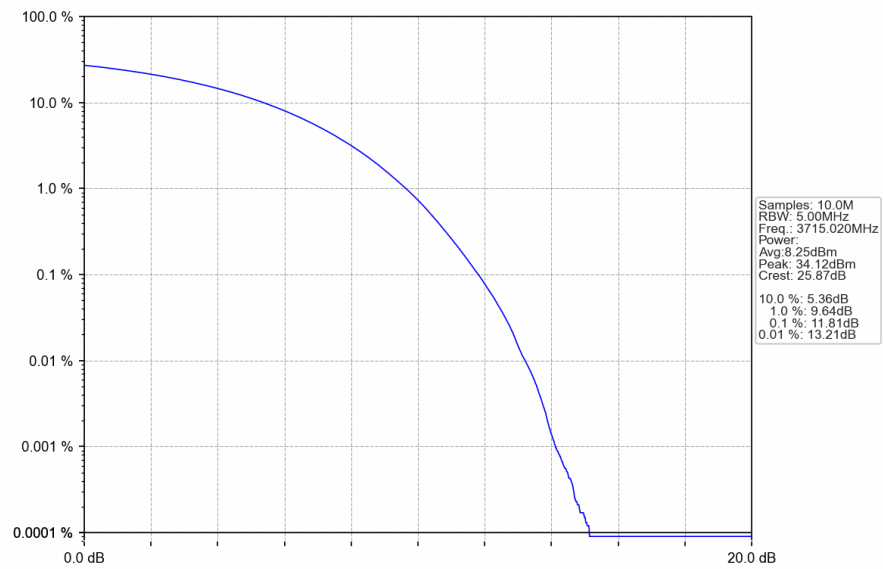
n78a 30kHz SISO NTN 30MHz CP-OFDM QPSK 3750MHz Outer Full



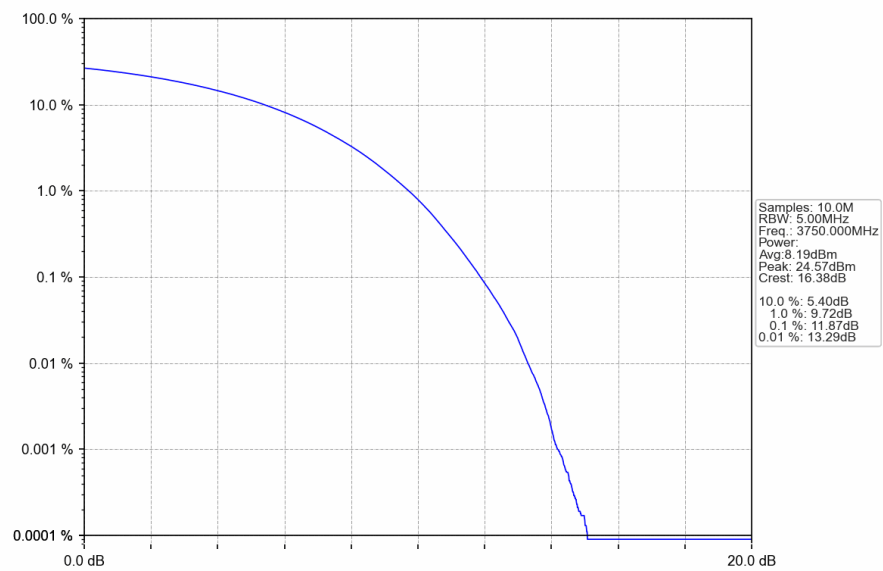
n78a 30kHz SISO NTN 30MHz CP-OFDM QPSK 3784.98MHz Outer Full



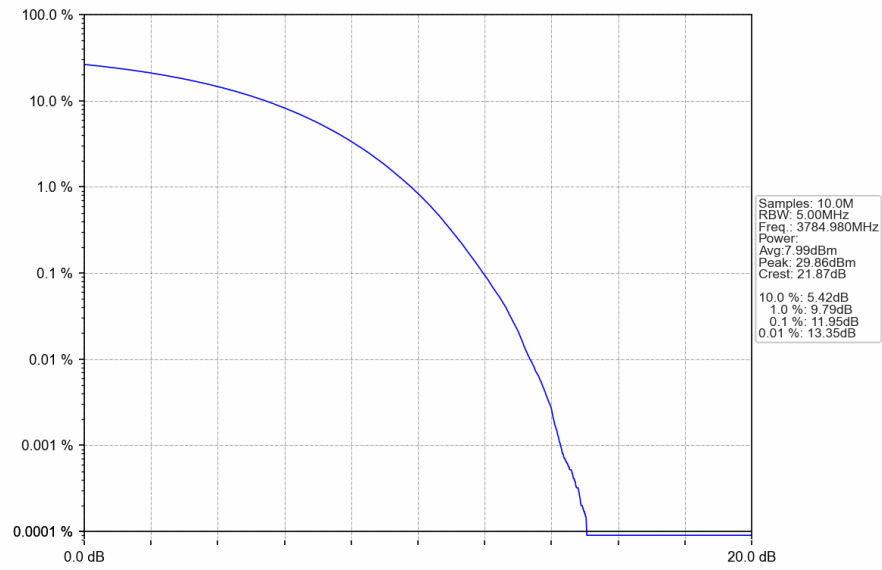
n78a 30kHz SISO NTN 30MHz CP-OFDM 64 QAM 3715.02MHz Outer Full



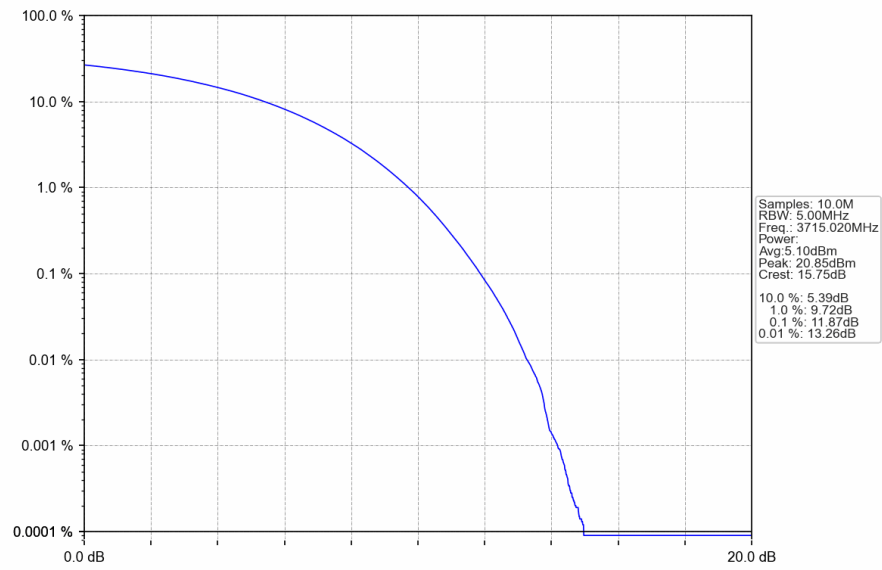
n78a 30kHz SISO NTN 30MHz CP-OFDM 64 QAM 3750MHz Outer Full



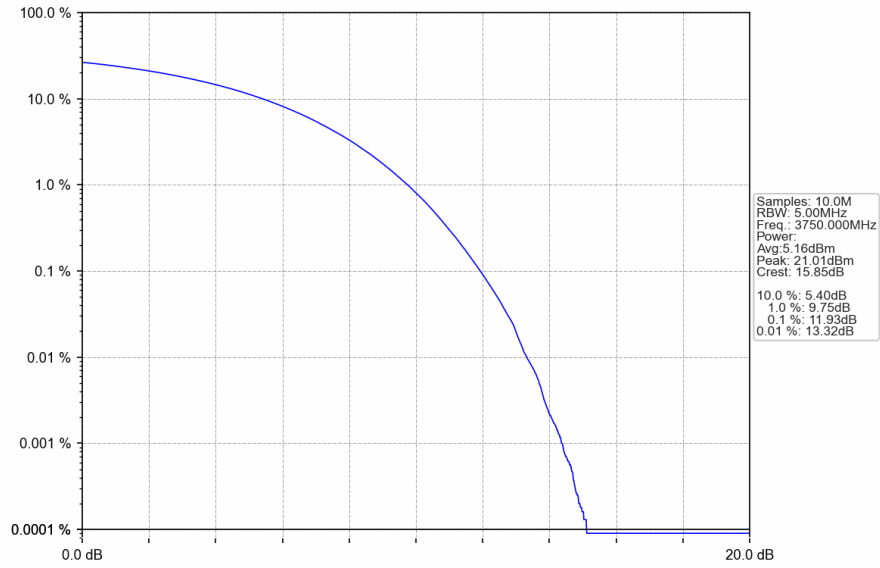
n78a_30kHz_SISO_NTNV_30MHz_CP-OFDM 64 QAM_3784.98MHz_Outer_Full



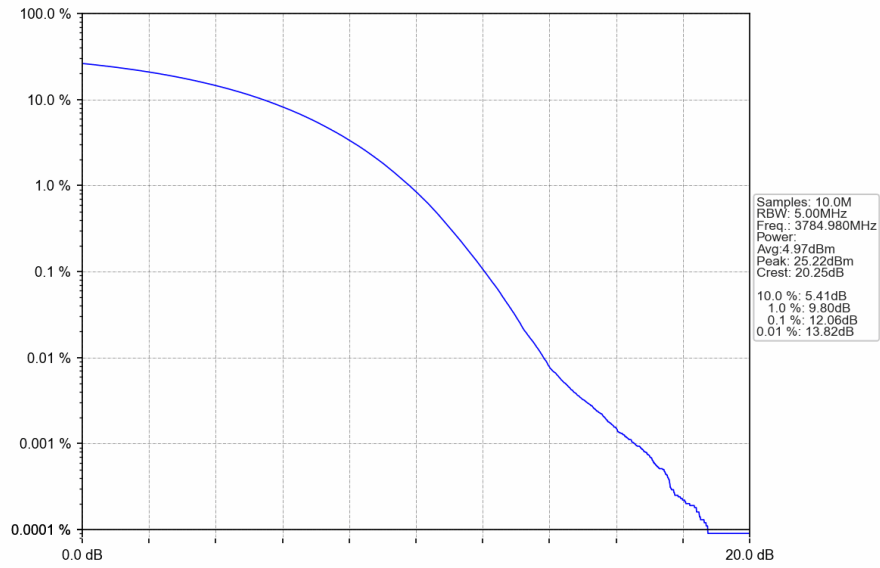
n78a_30kHz_SISO_NTNV_30MHz_CP-OFDM 256 QAM_3715.02MHz_Outer_Full



n78a_30kHz_SISO_NTNV_30MHz_CP-OFDM_256_QAM_3750MHz_Outer_Full



n78a_30kHz_SISO_NTNV_30MHz_CP-OFDM_256_QAM_3784.98MHz_Outer_Full

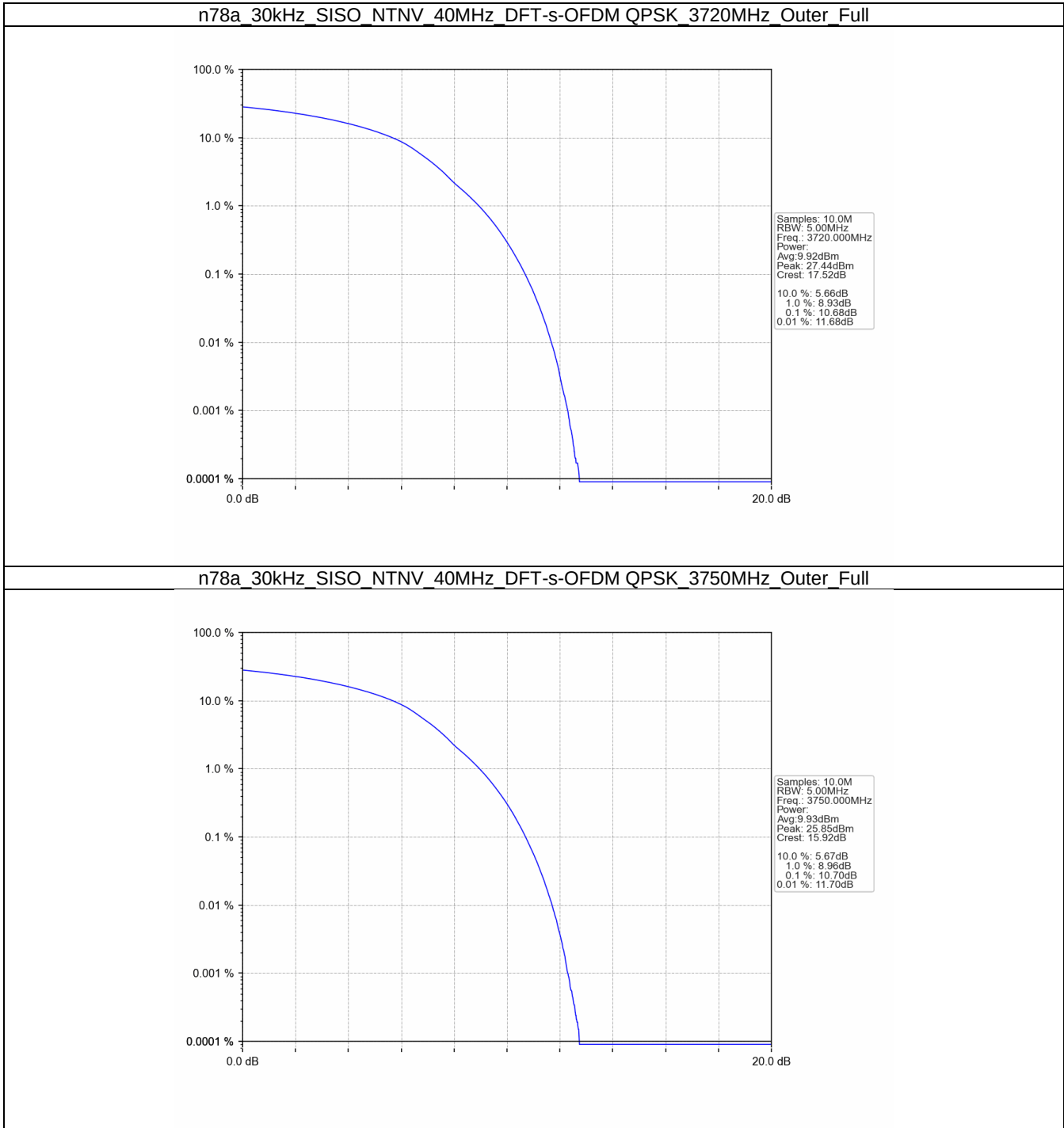


1.3 30k_SISO_40MHz_NTNV

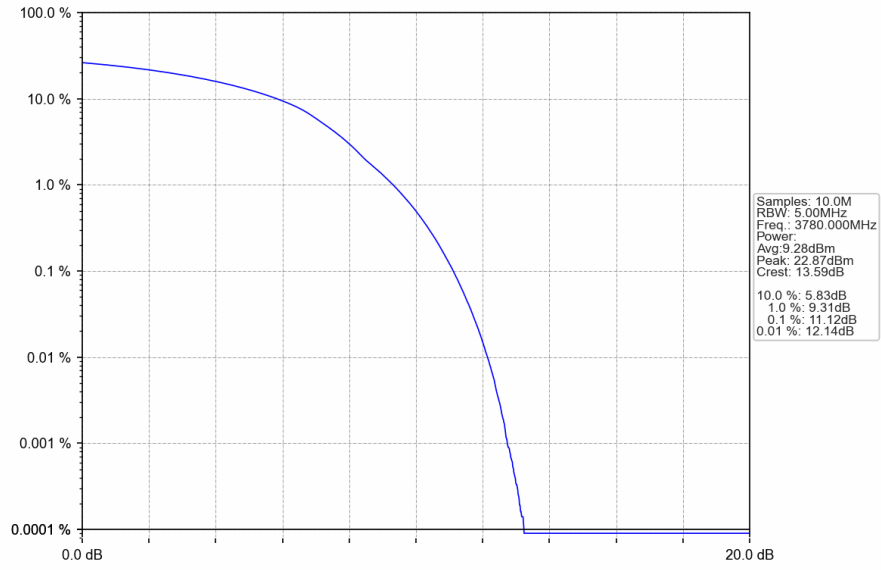
1.3.1 Test Result

5G NR n78a SCS=30kHz SISO 40MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM QPSK	3720	Outer_Full	10.68	/	/	<=13	Pass
	3750	Outer_Full	10.70	/	/	<=13	Pass
	3780	Outer_Full	11.12	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3720	Outer_Full	11.28	/	/	<=13	Pass
	3750	Outer_Full	11.07	/	/	<=13	Pass
	3780	Outer_Full	11.70	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3720	Outer_Full	11.31	/	/	<=13	Pass
	3750	Outer_Full	11.35	/	/	<=13	Pass
	3780	Outer_Full	11.12	/	/	<=13	Pass
CP-OFDM QPSK	3720	Outer_Full	11.74	/	/	<=13	Pass
	3750	Outer_Full	11.95	/	/	<=13	Pass
	3780	Outer_Full	11.87	/	/	<=13	Pass
CP-OFDM 64 QAM	3720	Outer_Full	11.80	/	/	<=13	Pass
	3750	Outer_Full	11.77	/	/	<=13	Pass
	3780	Outer_Full	11.97	/	/	<=13	Pass
CP-OFDM 256 QAM	3720	Outer_Full	11.64	/	/	<=13	Pass
	3750	Outer_Full	11.80	/	/	<=13	Pass
	3780	Outer_Full	11.70	/	/	<=13	Pass

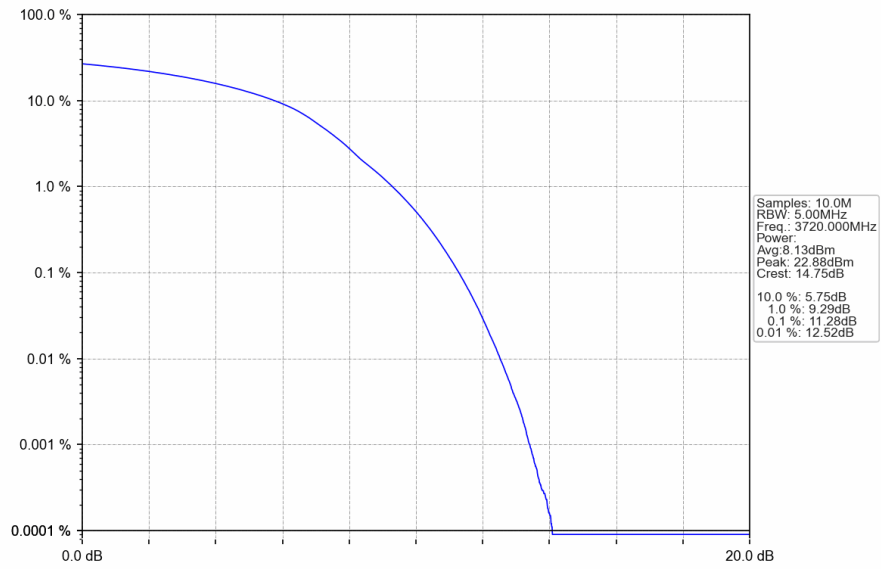
1.3.2 Test Graph



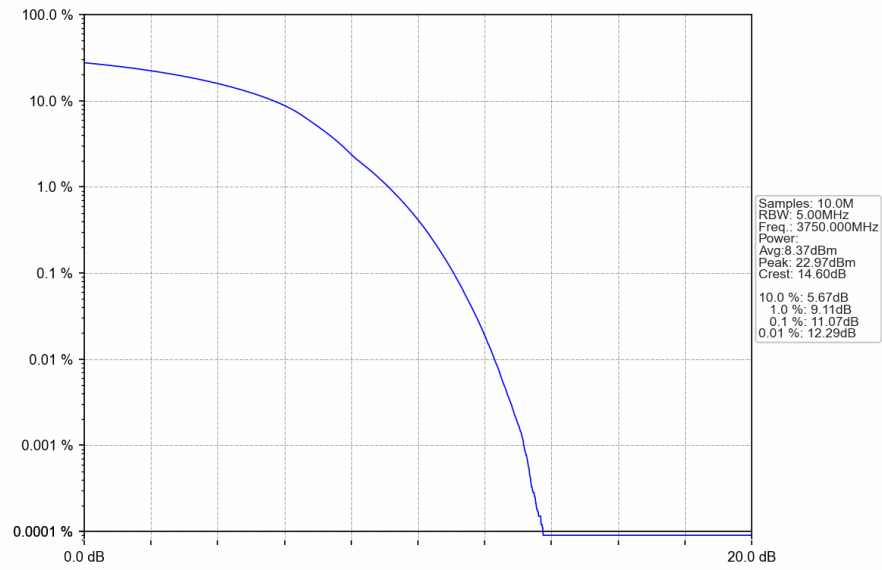
n78a_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_QPSK_3780MHz_Outer_Full



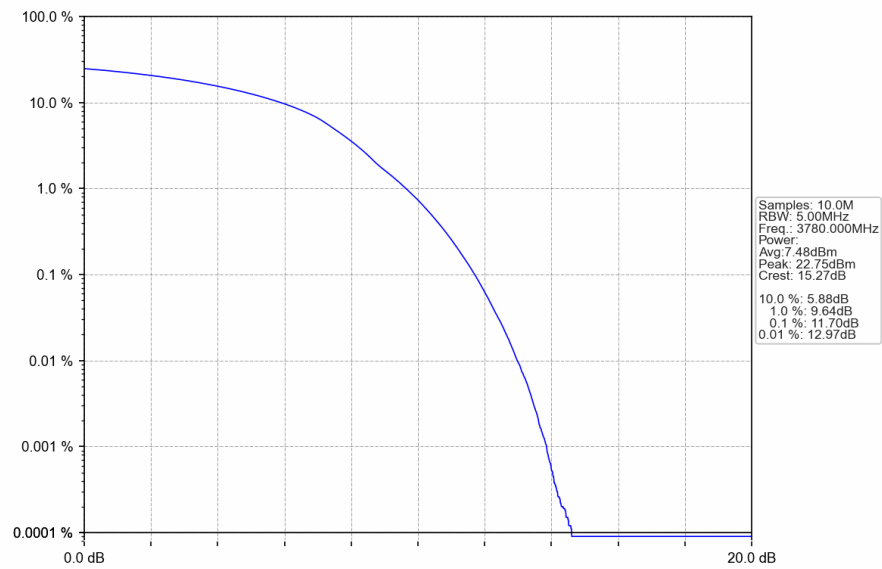
n78a_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_64_QAM_3720MHz_Outer_Full



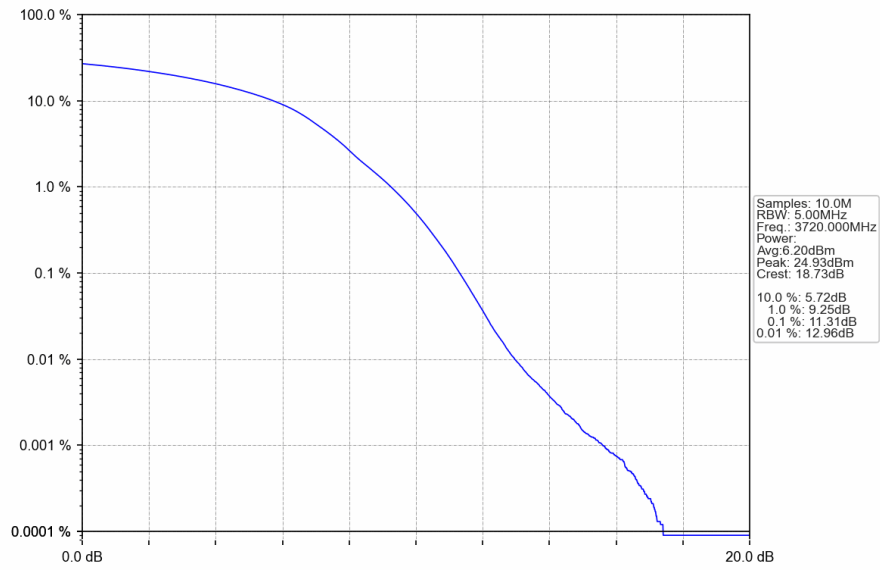
n78a_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_64_QAM_3750MHz_Outer_Full



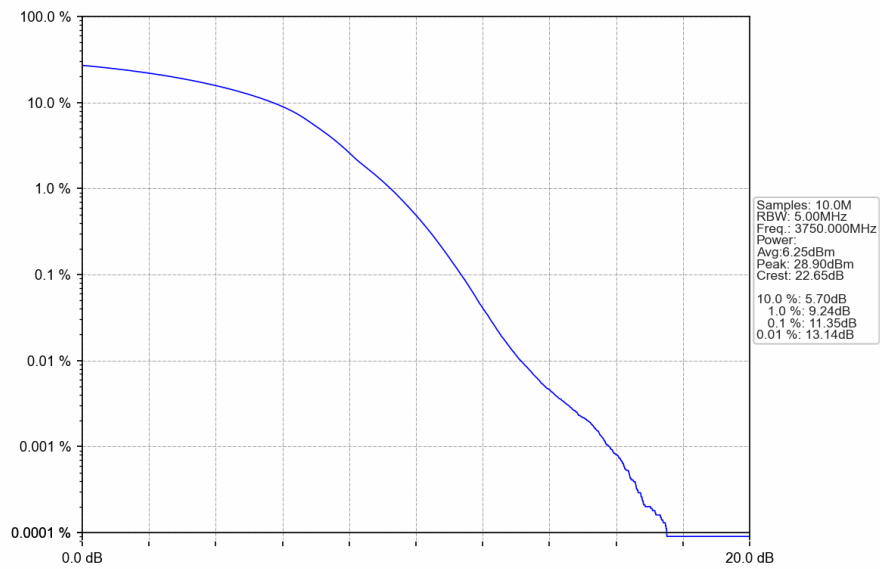
n78a_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_64_QAM_3780MHz_Outer_Full



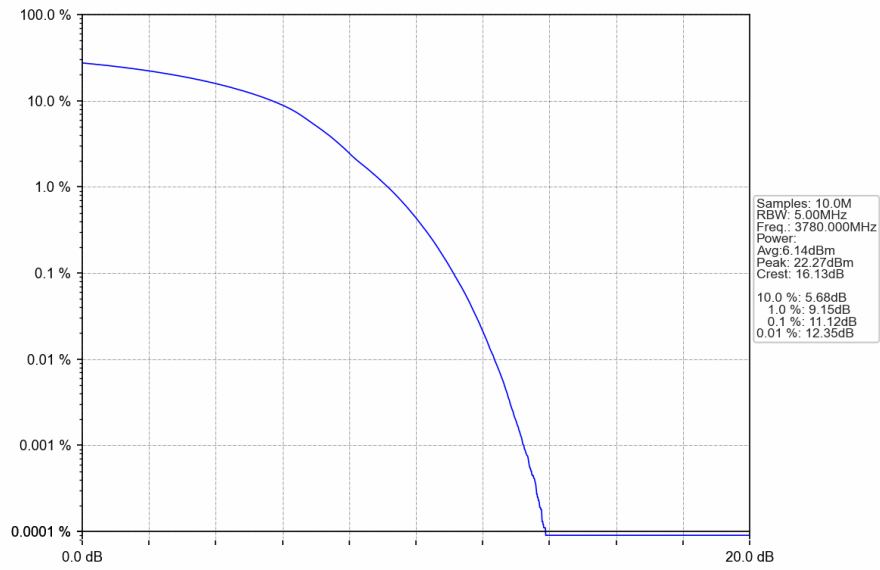
n78a_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_256_QAM_3720MHz_Outer_Full



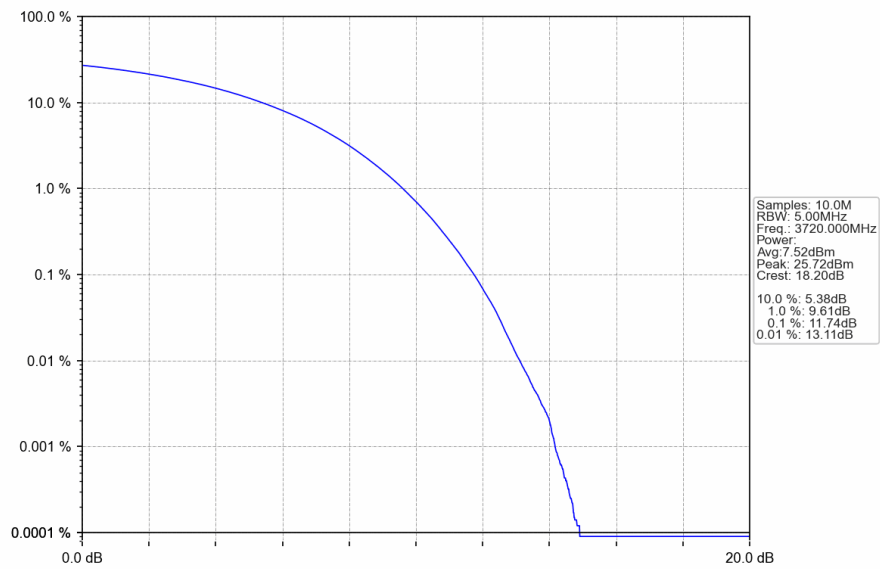
n78a_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_256_QAM_3750MHz_Outer_Full



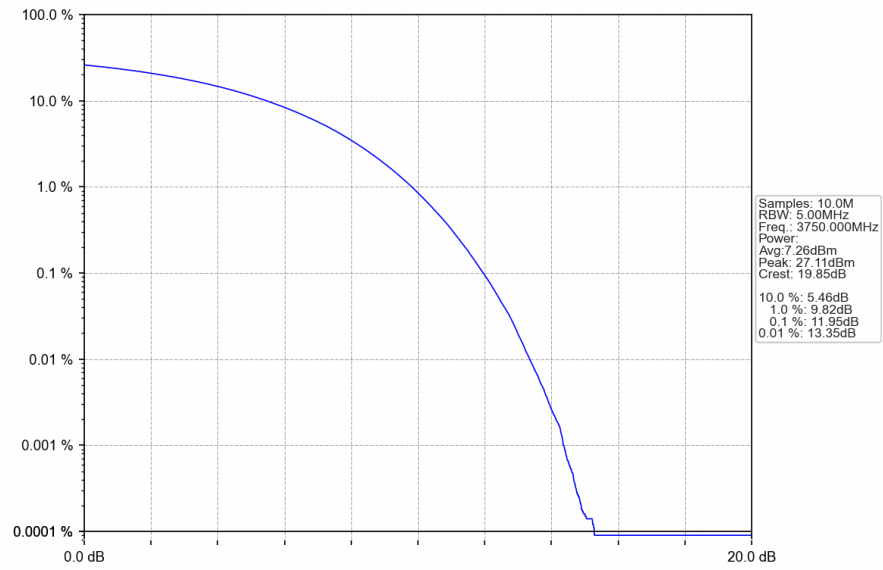
n78a_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_256_QAM_3780MHz_Outer_Full



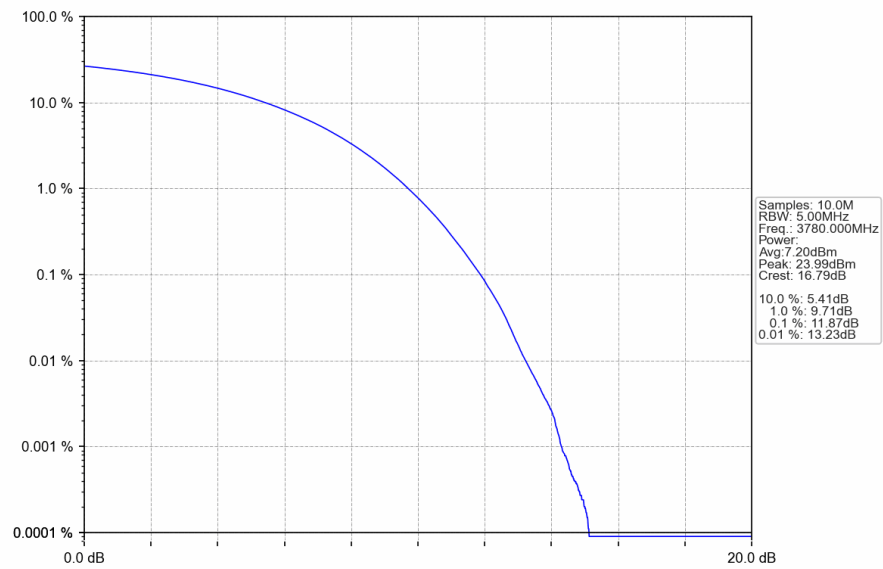
n78a_30kHz_SISO_NTNV_40MHz_CP-OFDM_QPSK_3720MHz_Outer_Full



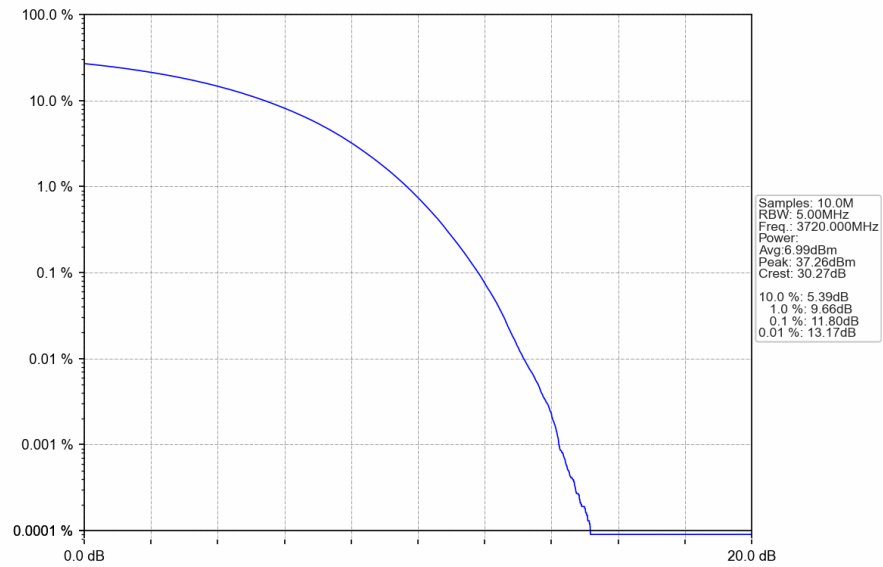
n78a_30kHz_SISO_NTNV_40MHz_CP-OFDM_QPSK_3750MHz_Outer_Full



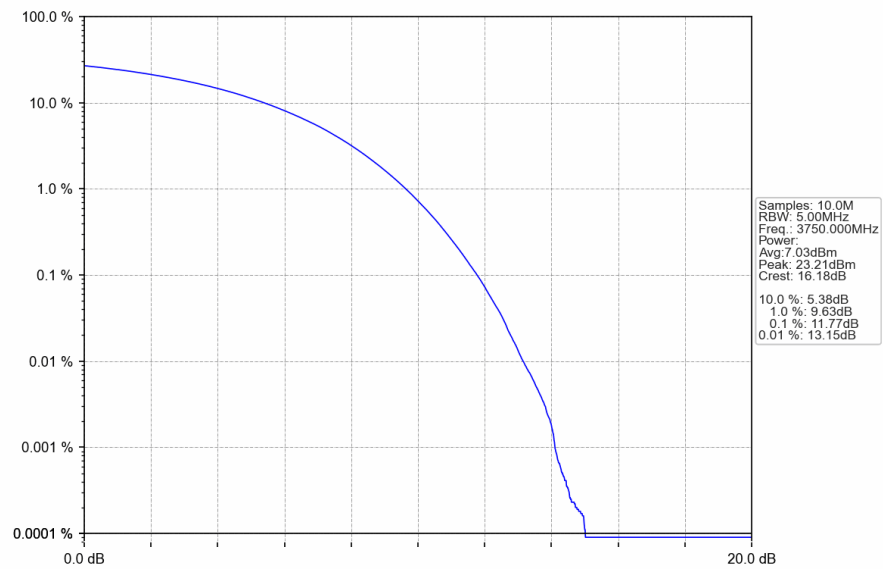
n78a_30kHz_SISO_NTNV_40MHz_CP-OFDM_QPSK_3780MHz_Outer_Full



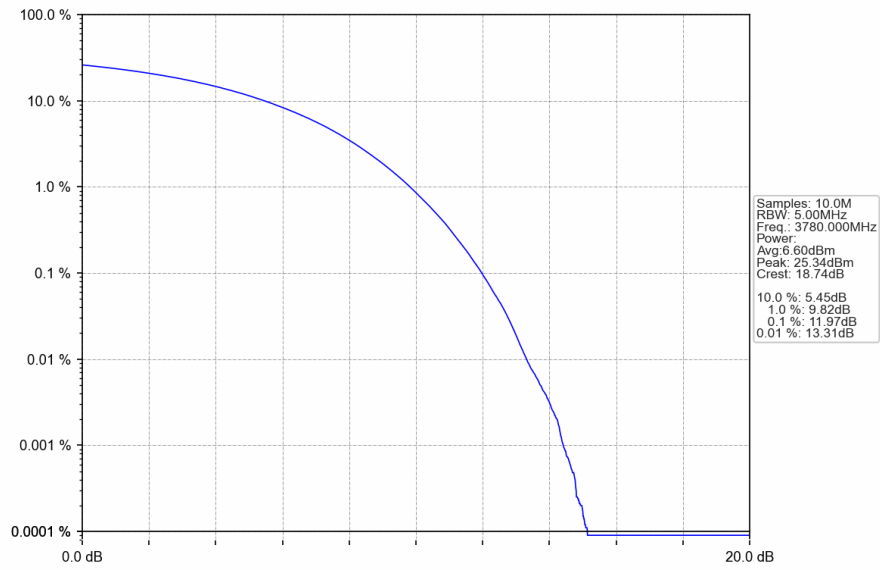
n78a_30kHz_SISO_NTNV_40MHz_CP-OFDM_64_QAM_3720MHz_Outer_Full



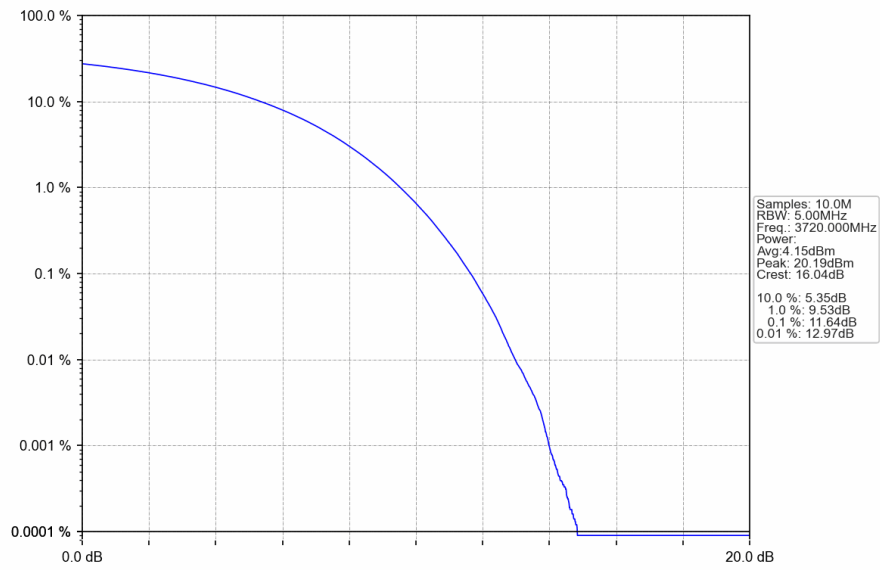
n78a_30kHz_SISO_NTNV_40MHz_CP-OFDM_64_QAM_3750MHz_Outer_Full



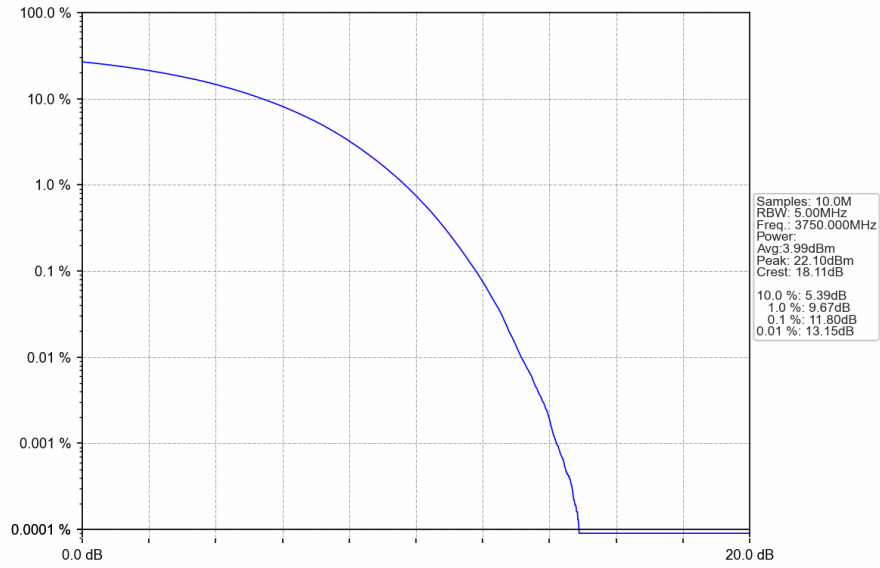
n78a 30kHz SISO NTN 40MHz CP-OFDM 64 QAM 3780MHz Outer Full



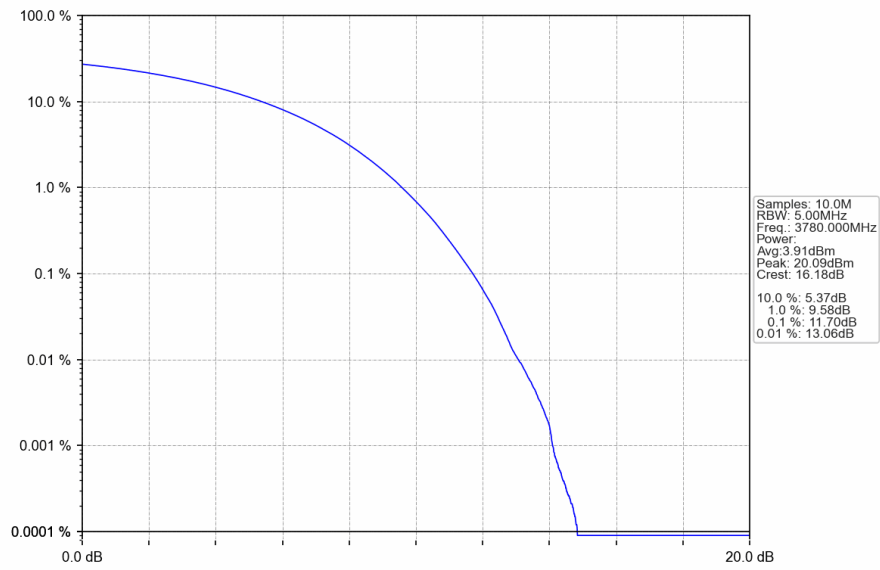
n78a 30kHz SISO NTN 40MHz CP-OFDM 256 QAM 3720MHz Outer Full



n78a_30kHz_SISO_NTNV_40MHz_CP-OFDM_256_QAM_3750MHz_Outer_Full



n78a_30kHz_SISO_NTNV_40MHz_CP-OFDM_256_QAM_3780MHz_Outer_Full

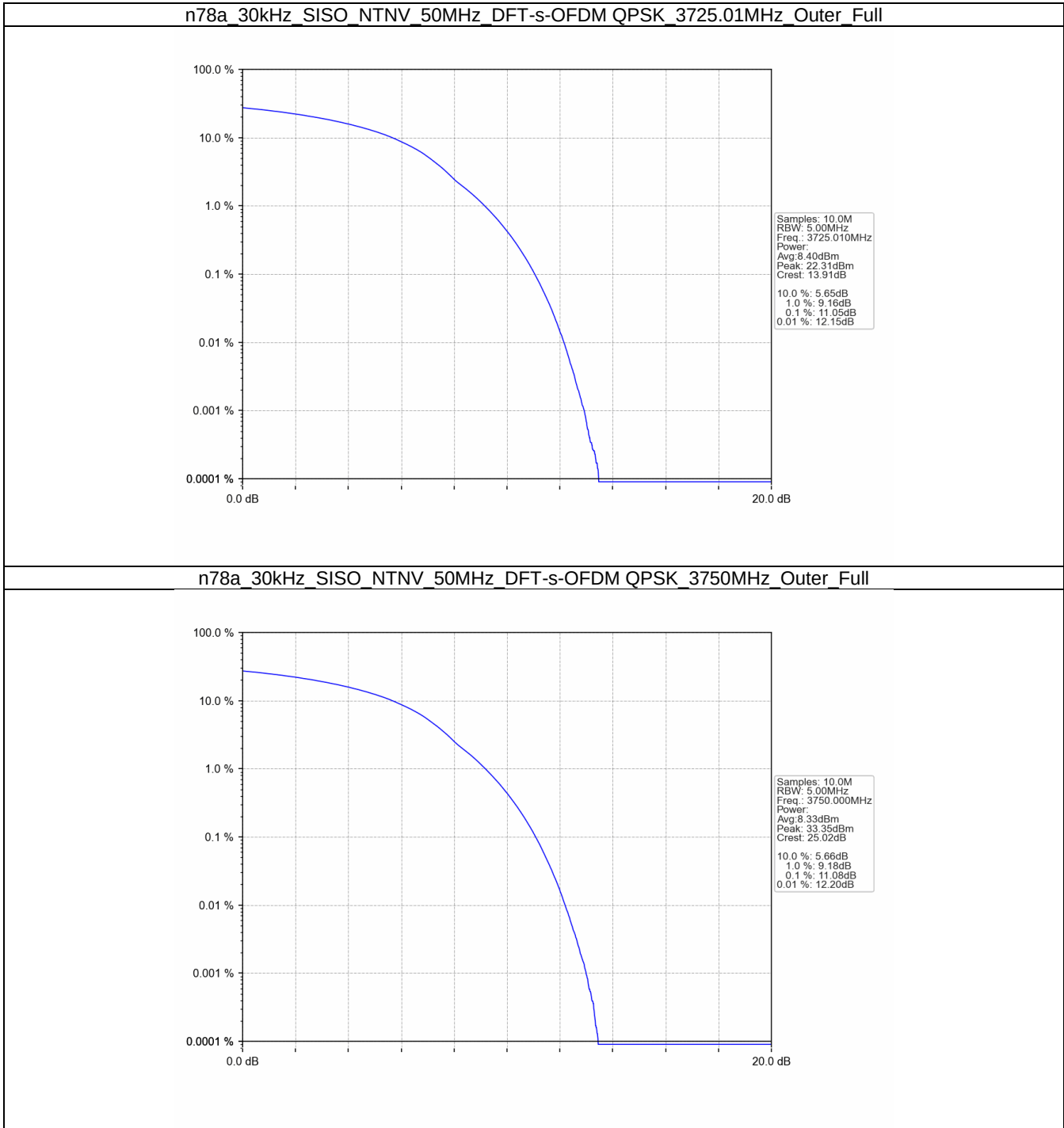


1.4 30k_SISO_50MHz_NTNV

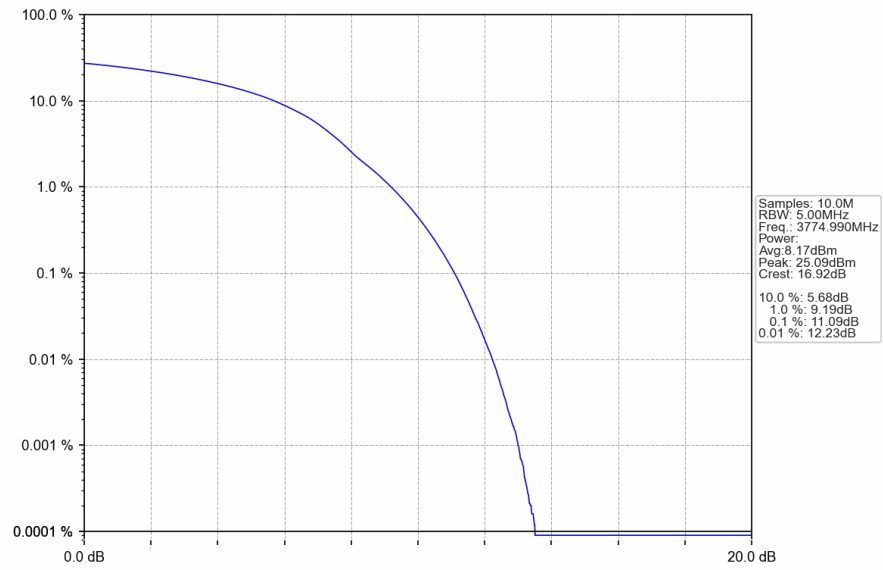
1.4.1 Test Result

5G NR n78a SCS=30kHz SISO 50MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM QPSK	3725.01	Outer_Full	11.05	/	/	<=13	Pass
	3750	Outer_Full	11.08	/	/	<=13	Pass
	3774.99	Outer_Full	11.09	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3725.01	Outer_Full	11.15	/	/	<=13	Pass
	3750	Outer_Full	11.25	/	/	<=13	Pass
	3774.99	Outer_Full	11.37	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3725.01	Outer_Full	11.35	/	/	<=13	Pass
	3750	Outer_Full	11.28	/	/	<=13	Pass
	3774.99	Outer_Full	11.24	/	/	<=13	Pass
CP-OFDM QPSK	3725.01	Outer_Full	11.75	/	/	<=13	Pass
	3750	Outer_Full	11.79	/	/	<=13	Pass
	3774.99	Outer_Full	11.85	/	/	<=13	Pass
CP-OFDM 64 QAM	3725.01	Outer_Full	11.85	/	/	<=13	Pass
	3750	Outer_Full	11.91	/	/	<=13	Pass
	3774.99	Outer_Full	11.79	/	/	<=13	Pass
CP-OFDM 256 QAM	3725.01	Outer_Full	11.93	/	/	<=13	Pass
	3750	Outer_Full	11.94	/	/	<=13	Pass
	3774.99	Outer_Full	11.85	/	/	<=13	Pass

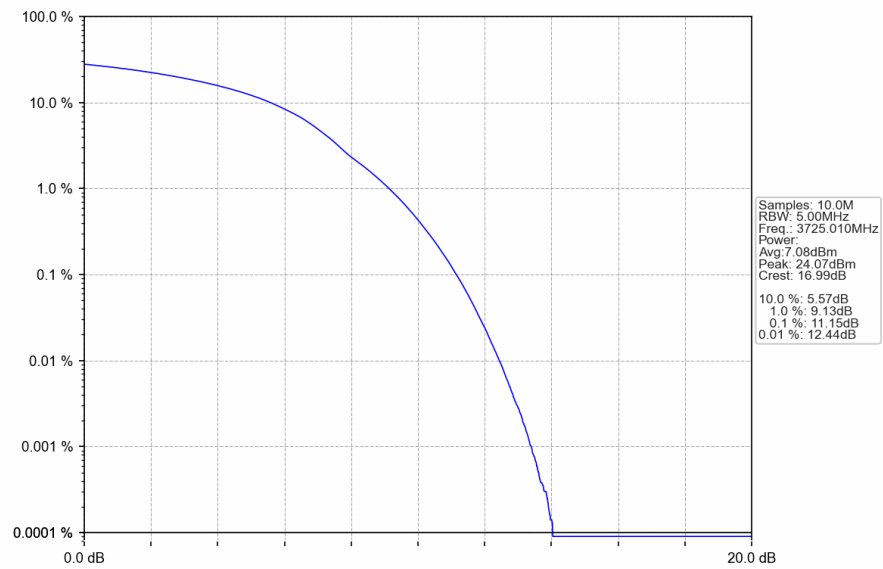
1.4.2 Test Graph



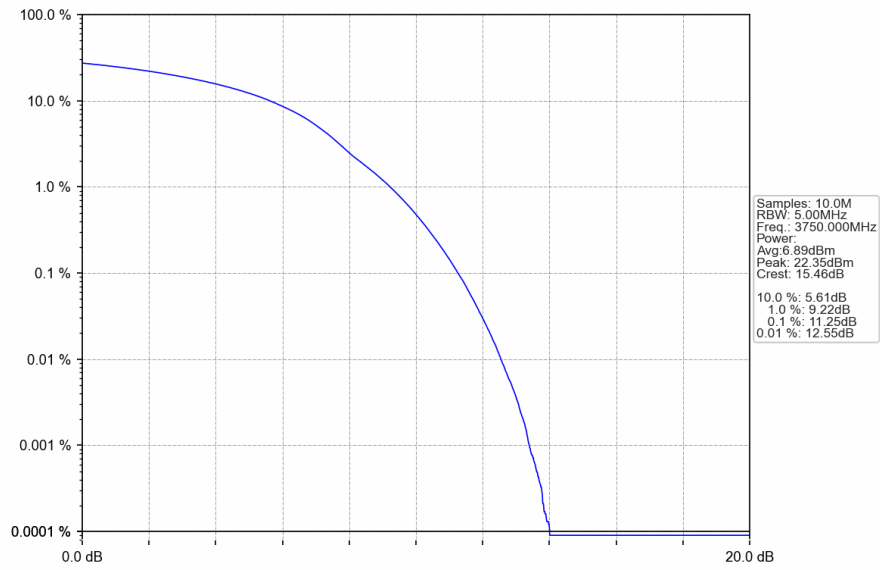
n78a_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM_QPSK_3774.99MHz_Outer_Full



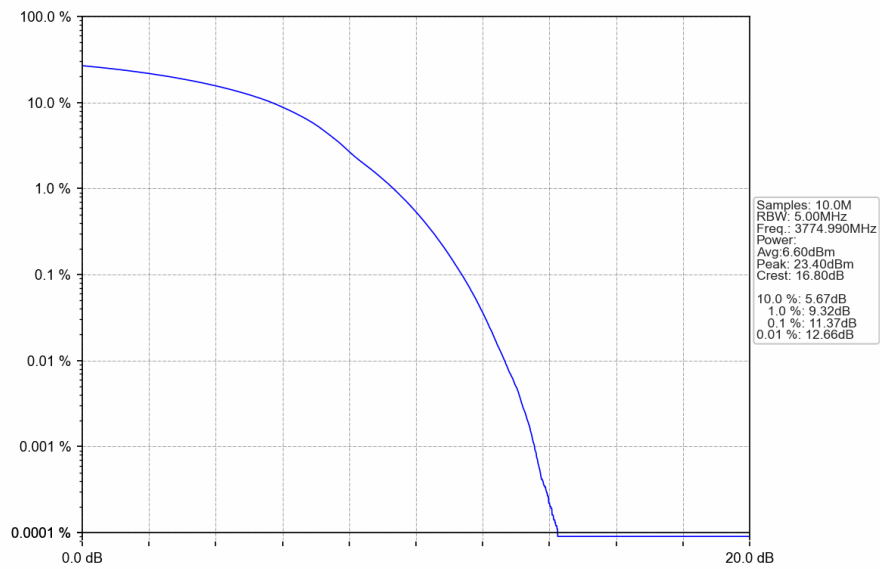
n78a_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM_64_QAM_3725.01MHz_Outer_Full



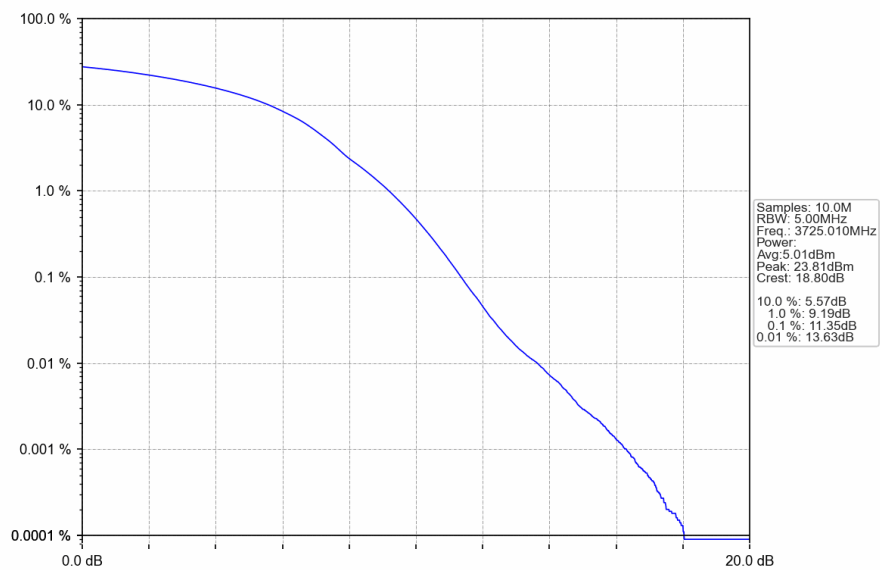
n78a_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM_64_QAM_3750MHz_Outer_Full



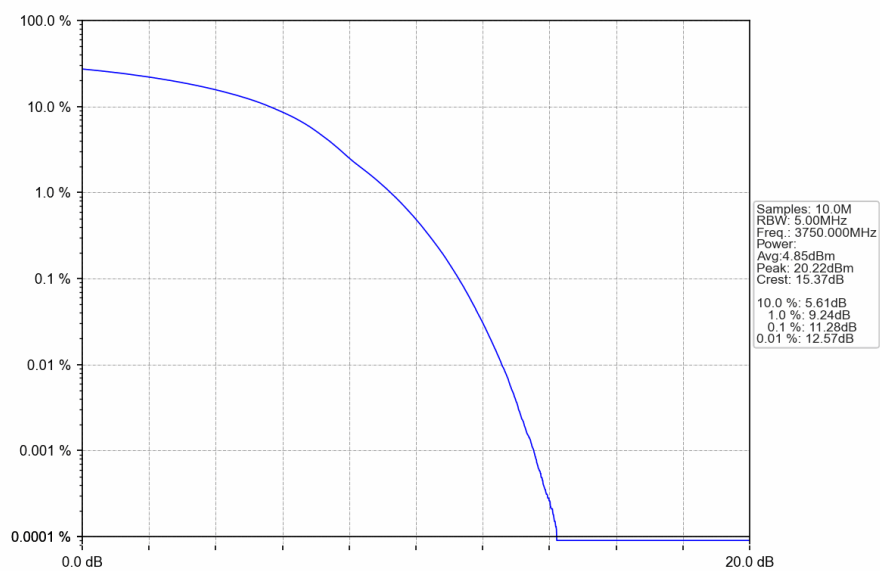
n78a_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM_64_QAM_3774.99MHz_Outer_Full



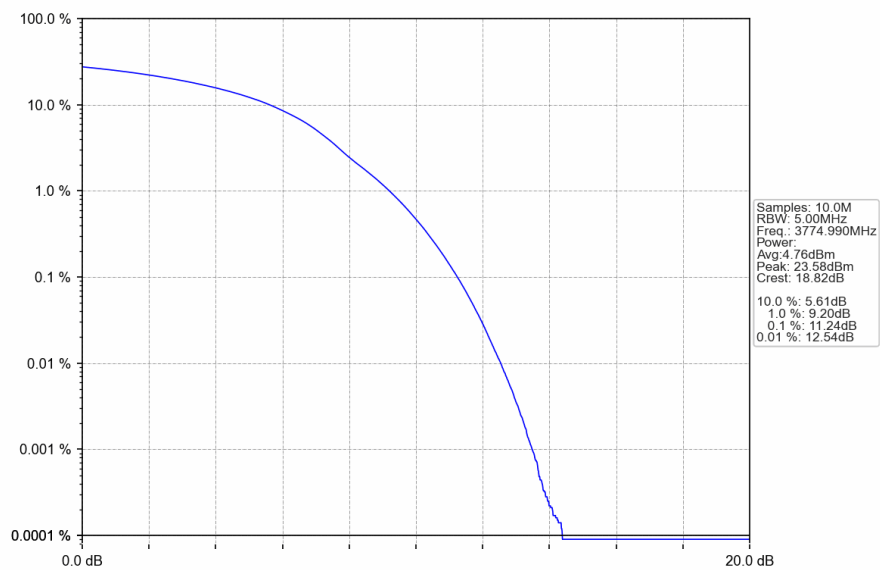
n78a_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM_256_QAM_3725.01MHz_Outer_Full



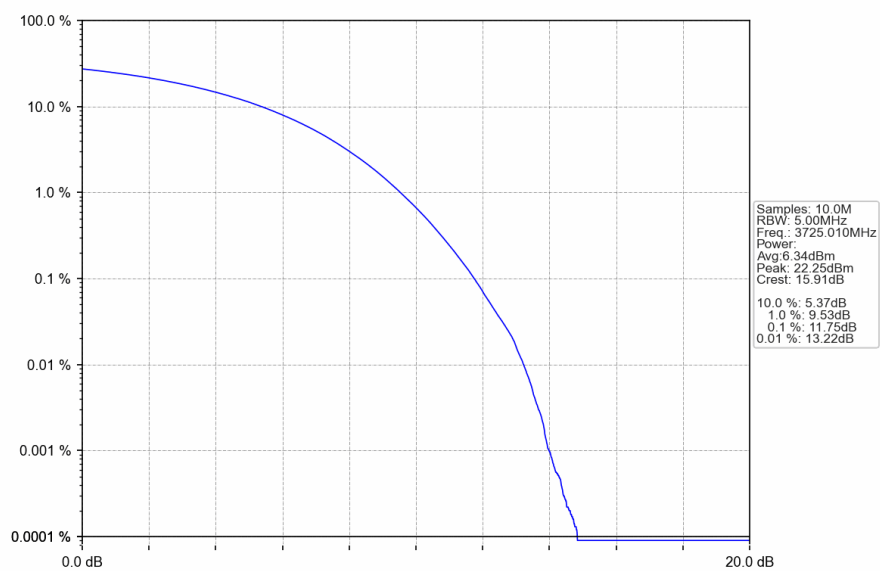
n78a_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM_256_QAM_3750MHz_Outer_Full



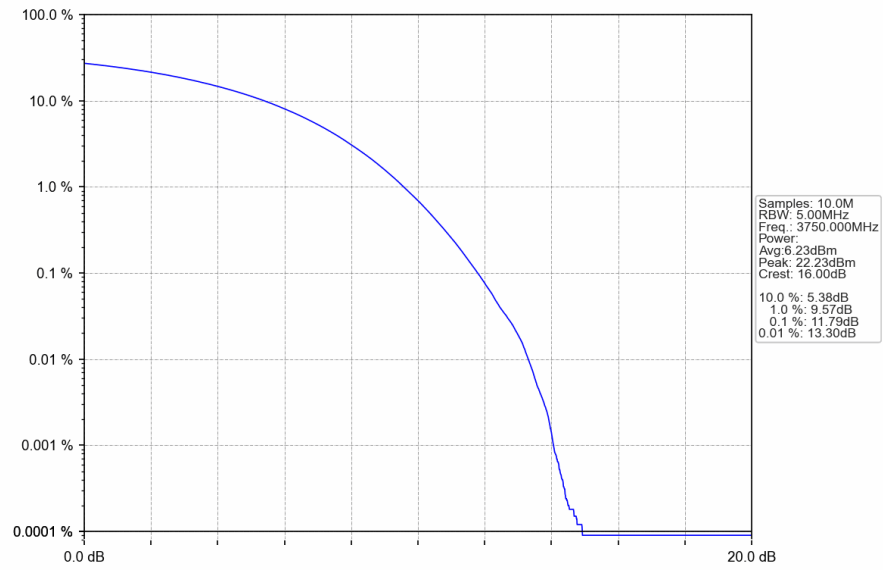
n78a_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM_256_QAM_3774.99MHz_Outer_Full



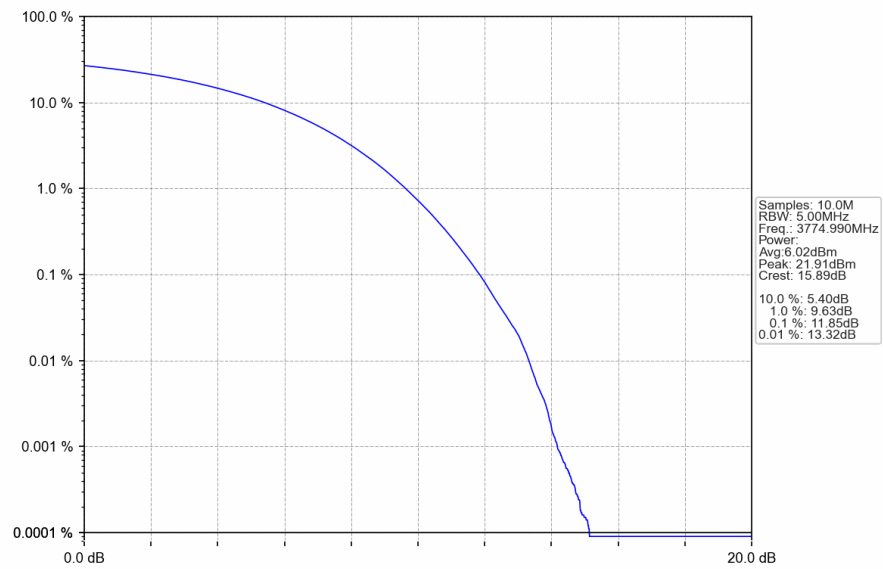
n78a_30kHz_SISO_NTNV_50MHz_CP-OFDM_QPSK_3725.01MHz_Outer_Full



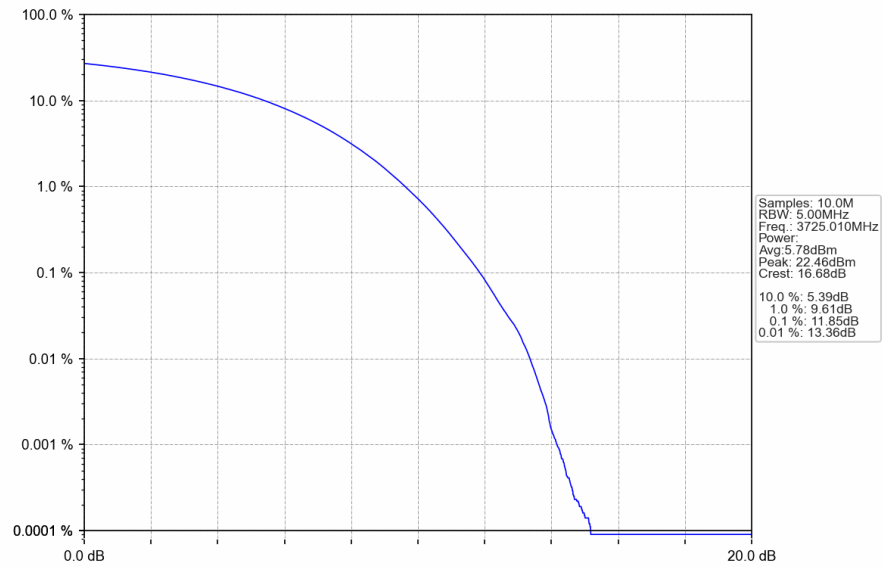
n78a 30kHz SISO NTN 50MHz CP-OFDM QPSK 3750MHz Outer Full



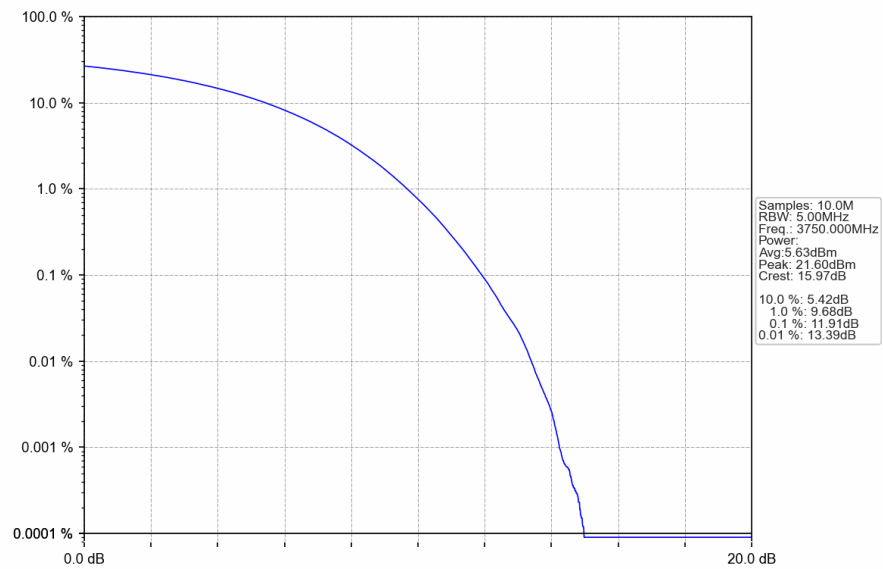
n78a 30kHz SISO NTN 50MHz CP-OFDM QPSK 3774.99MHz Outer Full



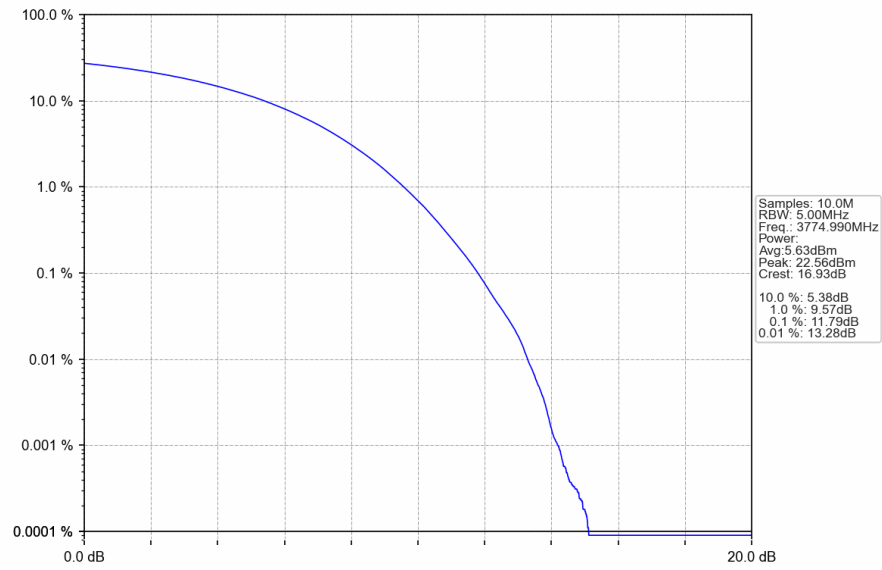
n78a 30kHz SISO NTN 50MHz CP-OFDM 64 QAM 3725.01MHz Outer Full



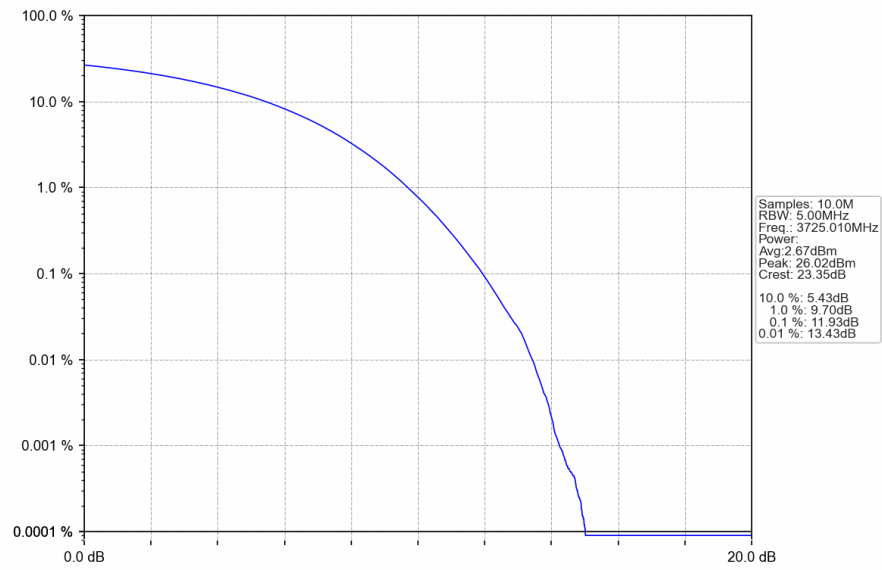
n78a 30kHz SISO NTN 50MHz CP-OFDM 64 QAM 3750MHz Outer Full



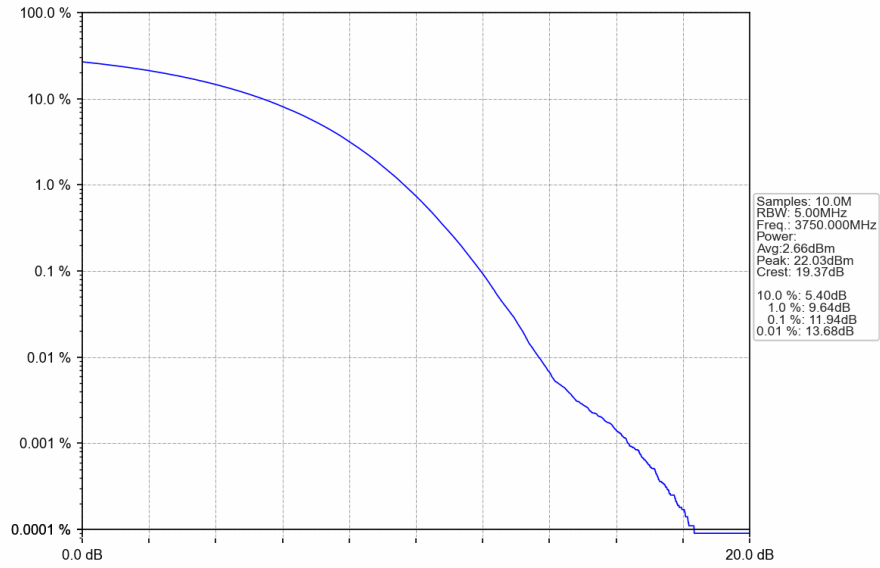
n78a_30kHz_SISO_NTNV_50MHz_CP-OFDM 64 QAM_3774.99MHz_Outer_Full



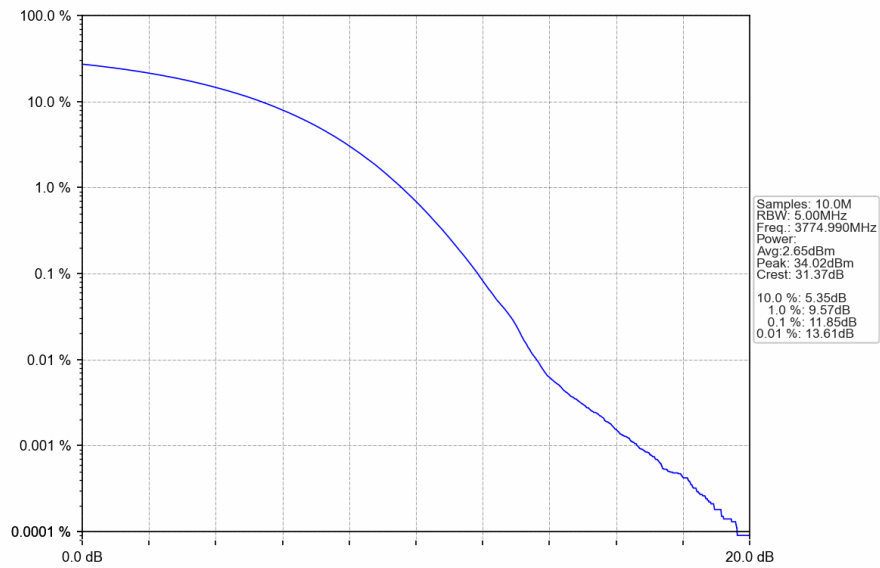
n78a_30kHz_SISO_NTNV_50MHz_CP-OFDM 256 QAM_3725.01MHz_Outer_Full



n78a_30kHz_SISO_NTNV_50MHz_CP-OFDM_256_QAM_3750MHz_Outer_Full



n78a_30kHz_SISO_NTNV_50MHz_CP-OFDM_256_QAM_3774.99MHz_Outer_Full

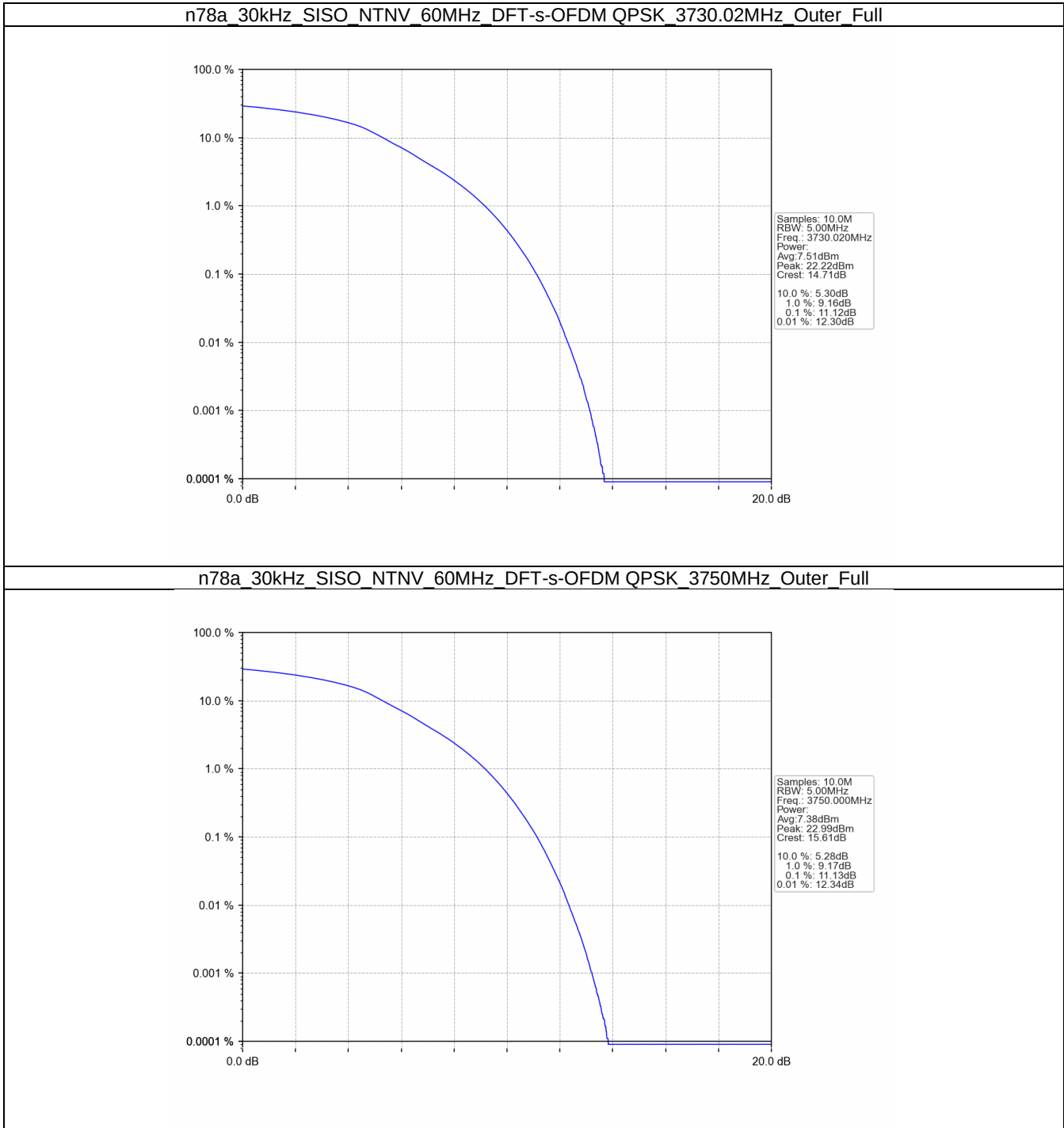


1.5 30k_SISO_60MHz_NTNV

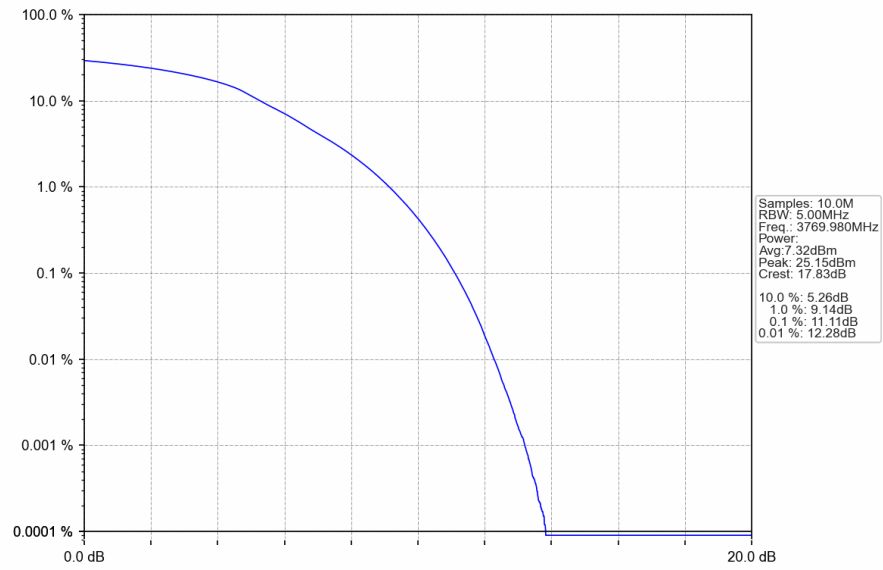
1.5.1 Test Result

5G NR n78a SCS=30kHz SISO 60MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM QPSK	3730.02	Outer_Full	11.12	/	/	<=13	Pass
	3750	Outer_Full	11.13	/	/	<=13	Pass
	3769.98	Outer_Full	11.11	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3730.02	Outer_Full	11.45	/	/	<=13	Pass
	3750	Outer_Full	11.69	/	/	<=13	Pass
	3769.98	Outer_Full	11.49	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3730.02	Outer_Full	11.58	/	/	<=13	Pass
	3750	Outer_Full	11.50	/	/	<=13	Pass
	3769.98	Outer_Full	11.41	/	/	<=13	Pass
CP-OFDM QPSK	3730.02	Outer_Full	11.71	/	/	<=13	Pass
	3750	Outer_Full	11.63	/	/	<=13	Pass
	3769.98	Outer_Full	11.75	/	/	<=13	Pass
CP-OFDM 64 QAM	3730.02	Outer_Full	11.76	/	/	<=13	Pass
	3750	Outer_Full	11.85	/	/	<=13	Pass
	3769.98	Outer_Full	11.86	/	/	<=13	Pass
CP-OFDM 256 QAM	3730.02	Outer_Full	11.89	/	/	<=13	Pass
	3750	Outer_Full	12.09	/	/	<=13	Pass
	3769.98	Outer_Full	11.74	/	/	<=13	Pass

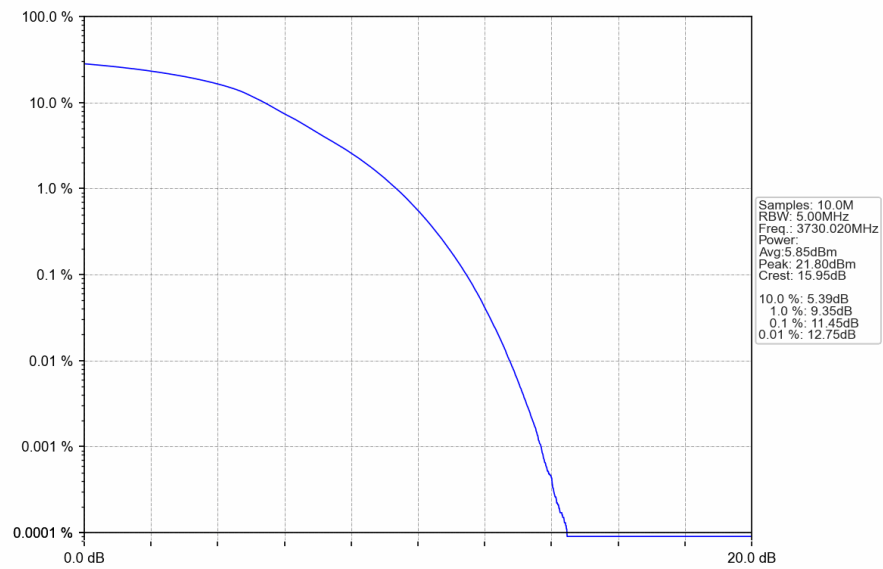
1.5.2 Test Graph



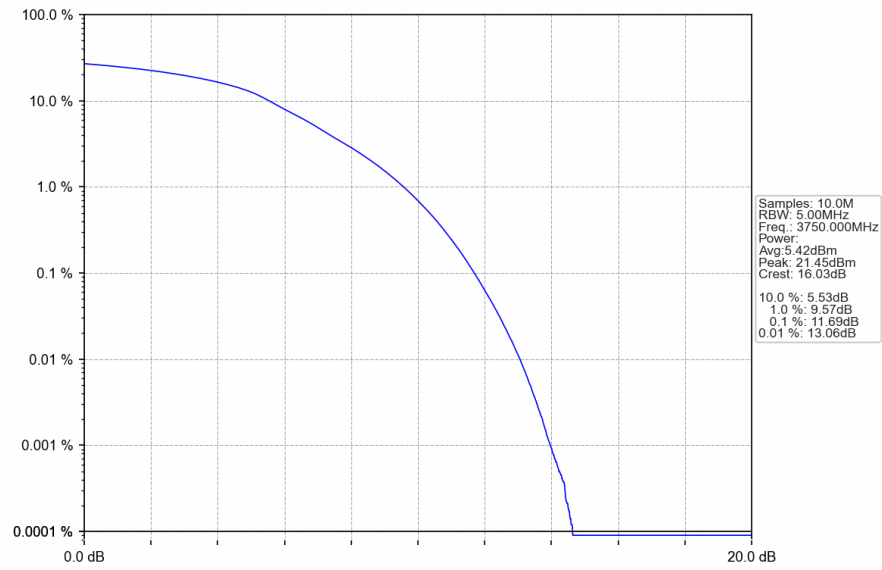
n78a_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM_QPSK_3769.98MHz_Outer_Full



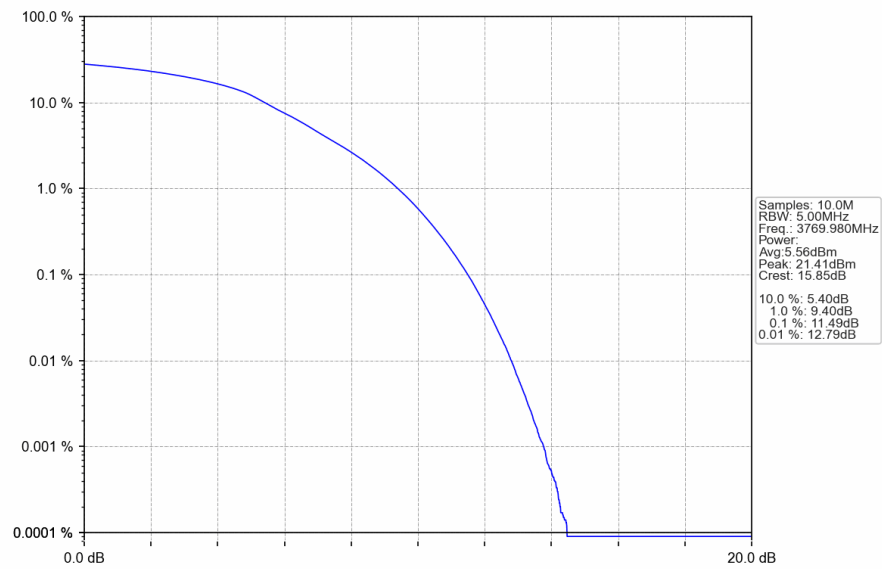
n78a_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM_64_QAM_3730.02MHz_Outer_Full



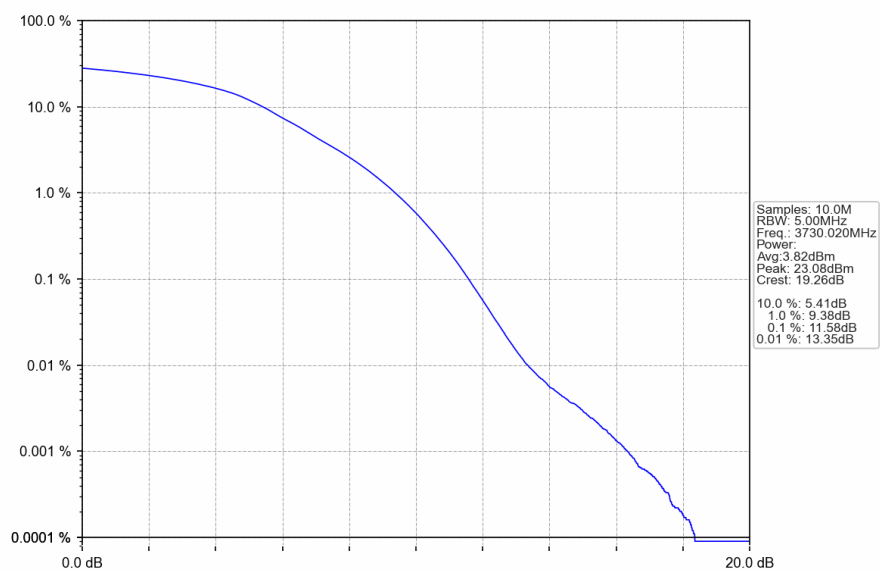
n78a_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM_64_QAM_3750MHz_Outer_Full



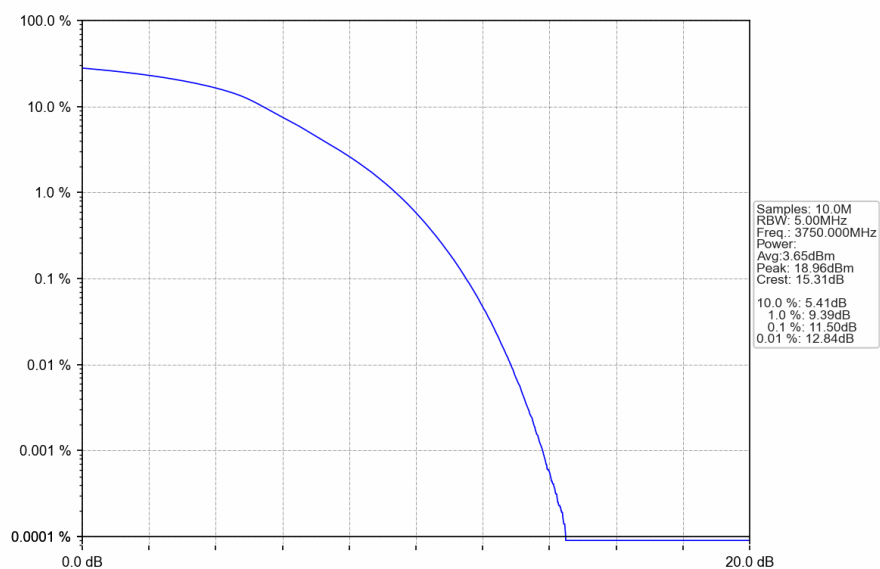
n78a_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM_64_QAM_3769.98MHz_Outer_Full



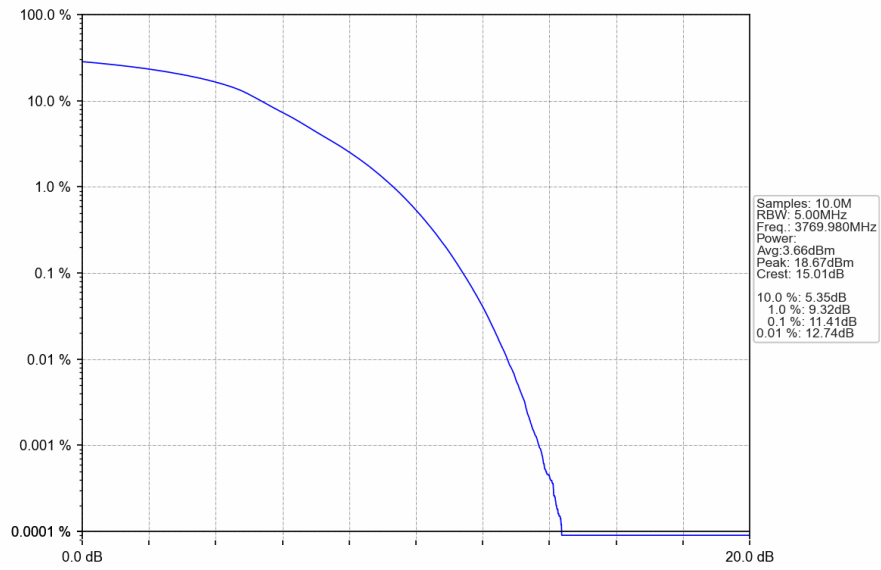
n78a_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM_256_QAM_3730.02MHz_Outer_Full



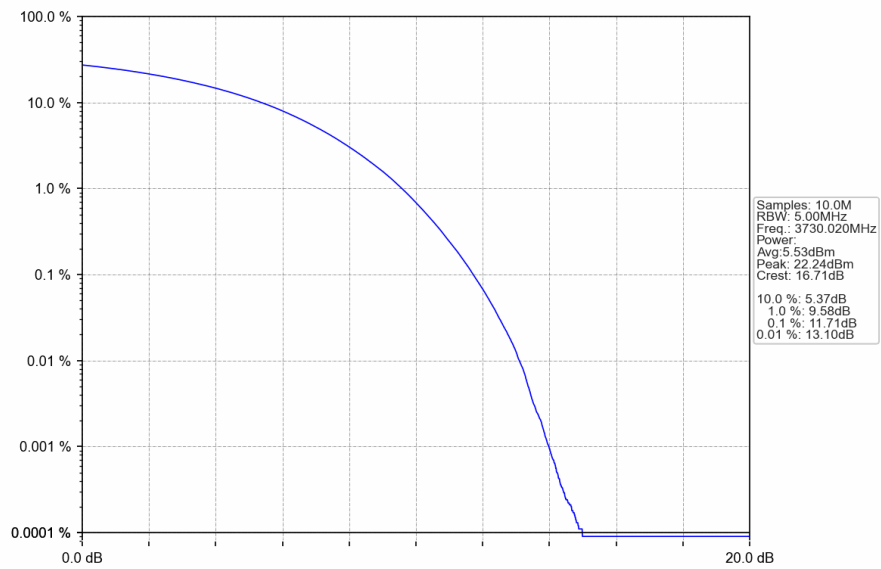
n78a_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM_256_QAM_3750MHz_Outer_Full



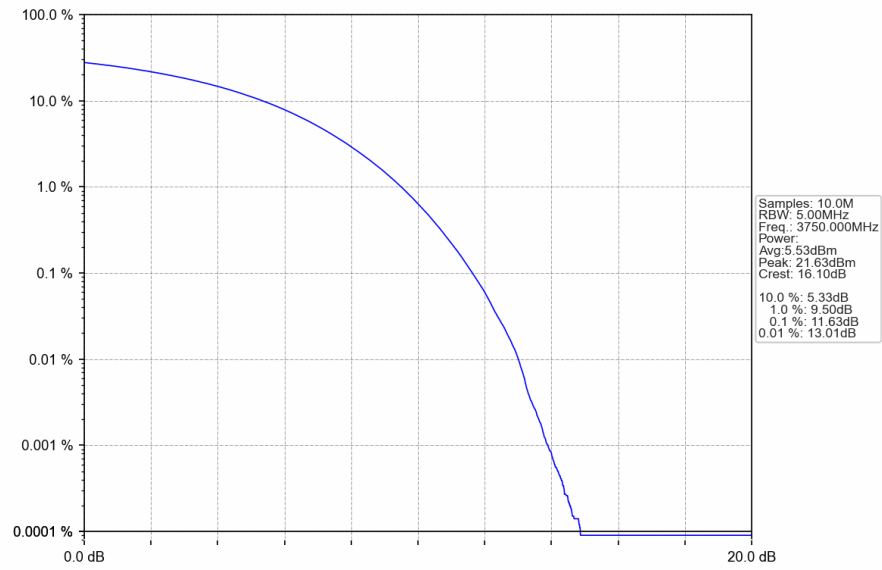
n78a_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM_256_QAM_3769.98MHz_Outer_Full



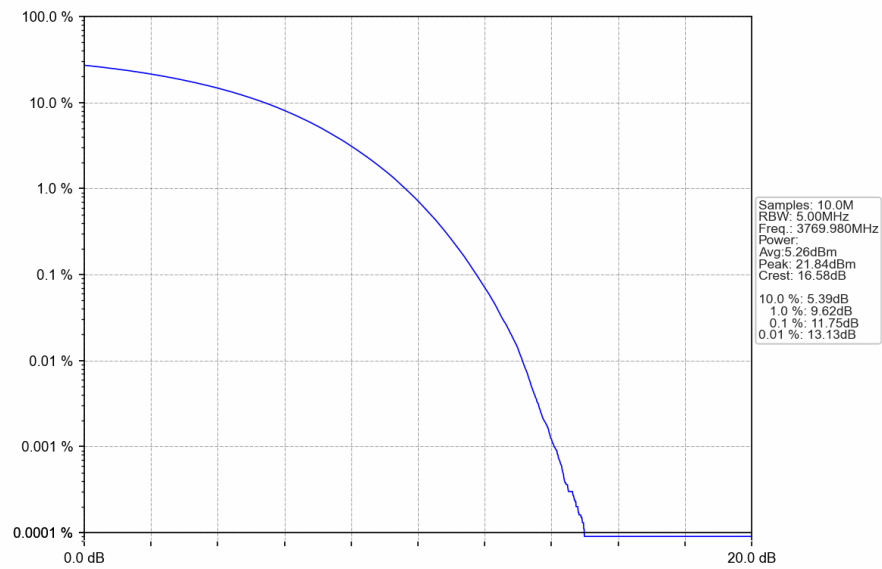
n78a_30kHz_SISO_NTNV_60MHz_CP-OFDM_QPSK_3730.02MHz_Outer_Full



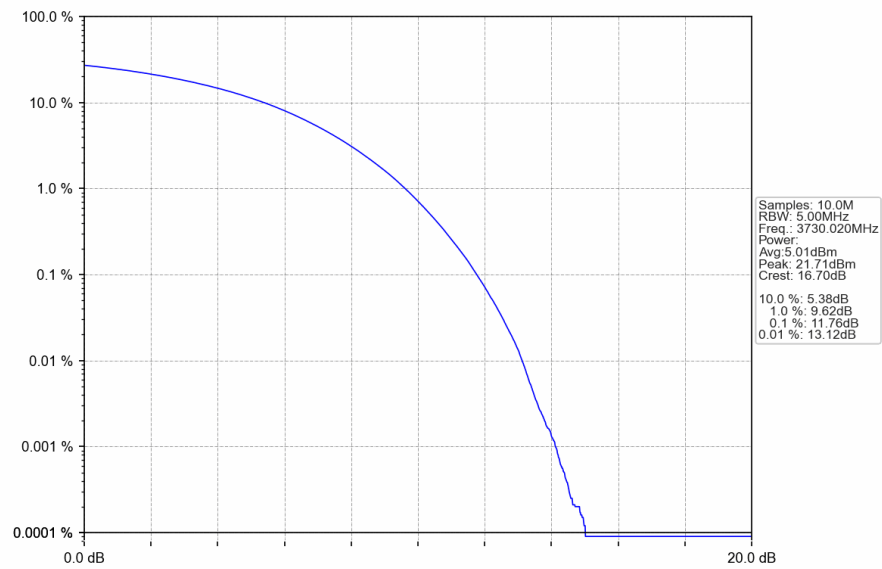
n78a_30kHz_SISO_NTNV_60MHz_CP-OFDM_QPSK_3750MHz_Outer_Full



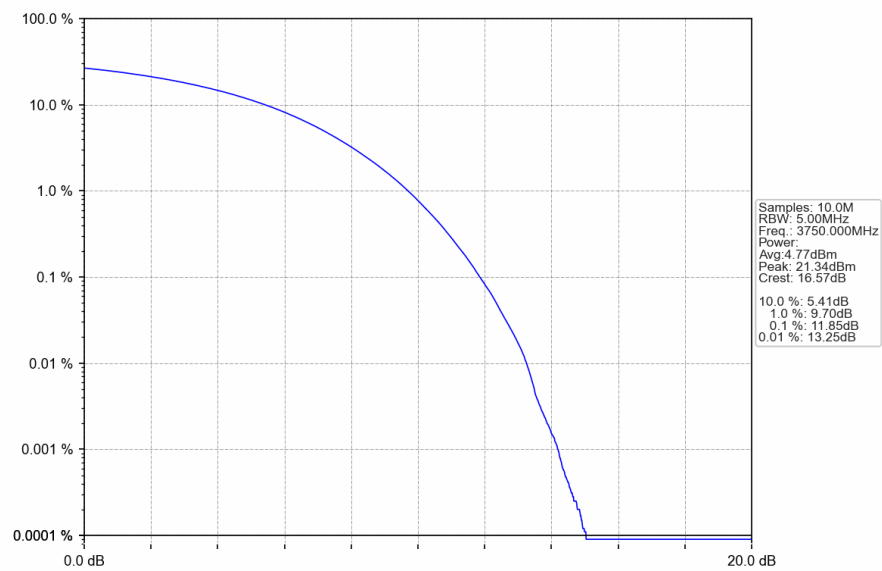
n78a_30kHz_SISO_NTNV_60MHz_CP-OFDM_QPSK_3769.98MHz_Outer_Full



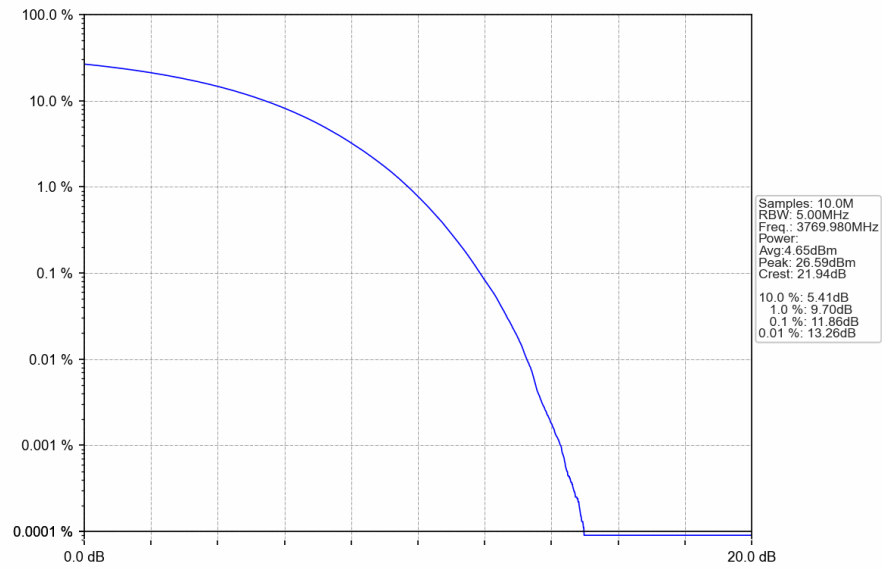
n78a 30kHz SISO NTN 60MHz CP-OFDM 64 QAM 3730.02MHz Outer Full



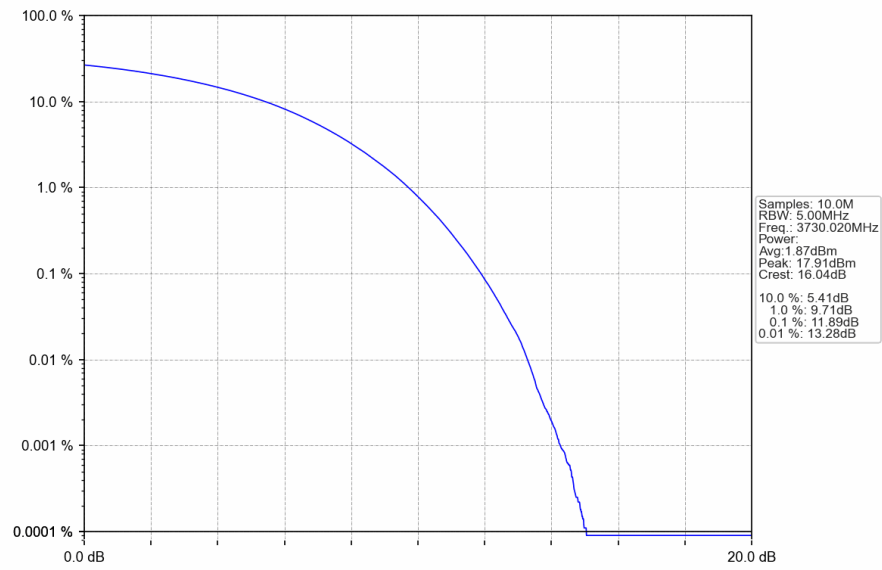
n78a 30kHz SISO NTN 60MHz CP-OFDM 64 QAM 3750MHz Outer Full



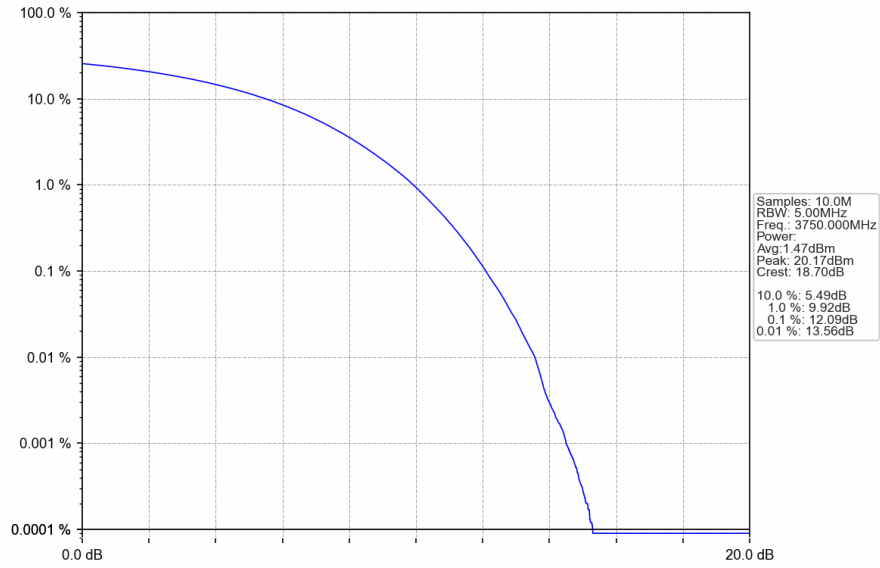
n78a_30kHz_SISO_NTNV_60MHz_CP-OFDM 64 QAM_3769.98MHz_Outer_Full



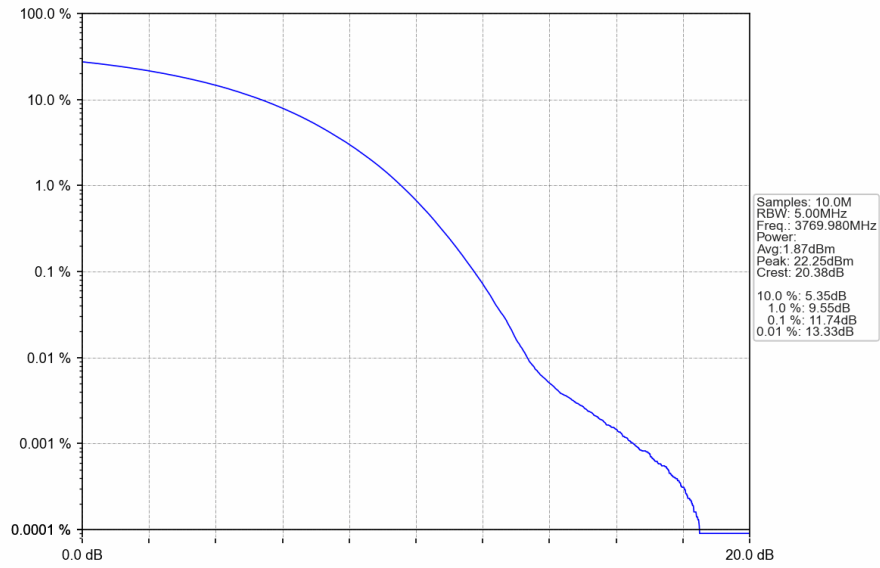
n78a_30kHz_SISO_NTNV_60MHz_CP-OFDM 256 QAM_3730.02MHz_Outer_Full



n78a_30kHz_SISO_NTNV_60MHz_CP-OFDM_256_QAM_3750MHz_Outer_Full



n78a_30kHz_SISO_NTNV_60MHz_CP-OFDM_256_QAM_3769.98MHz_Outer_Full

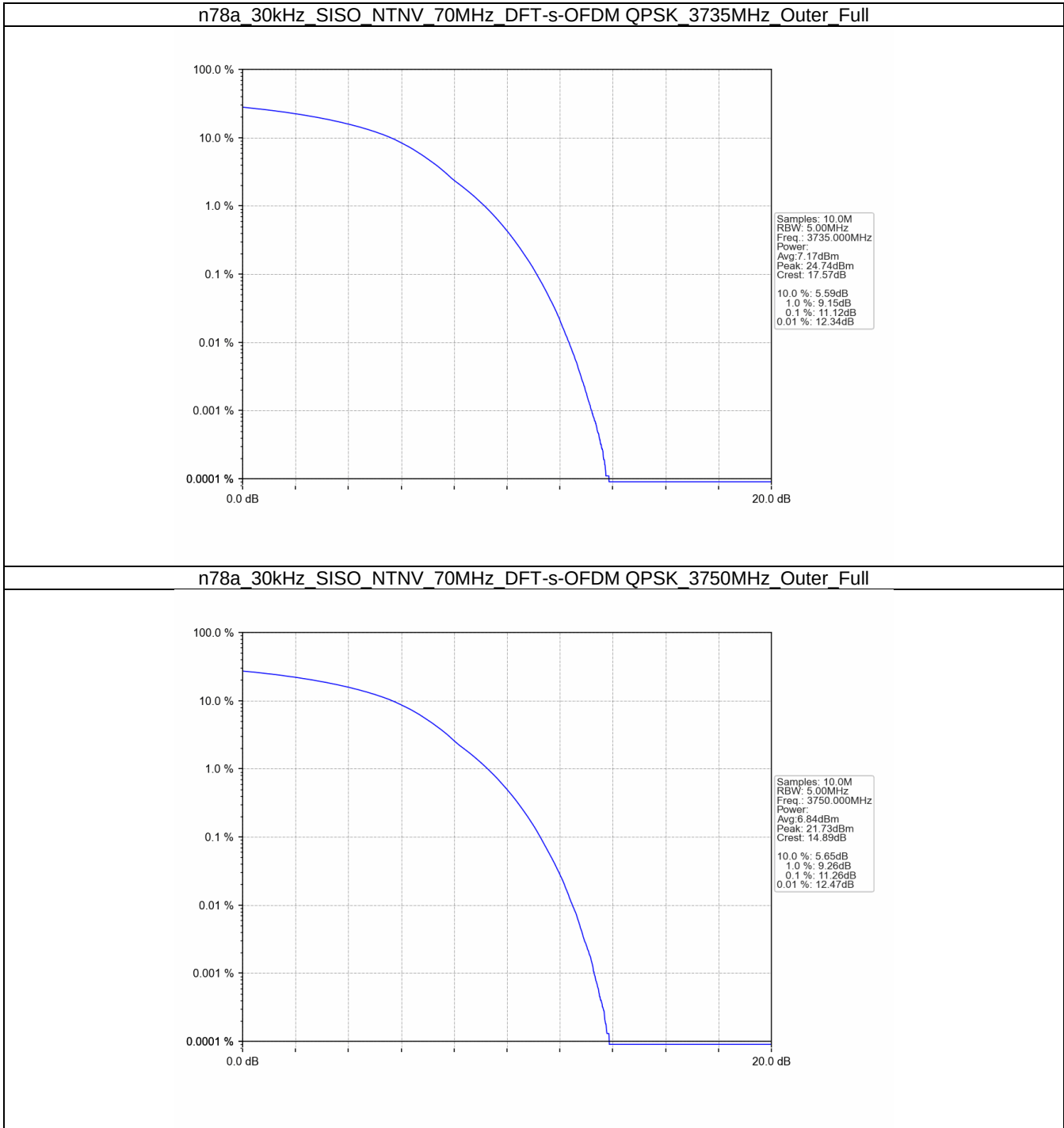


1.6 30k_SISO_70MHz_NTNV

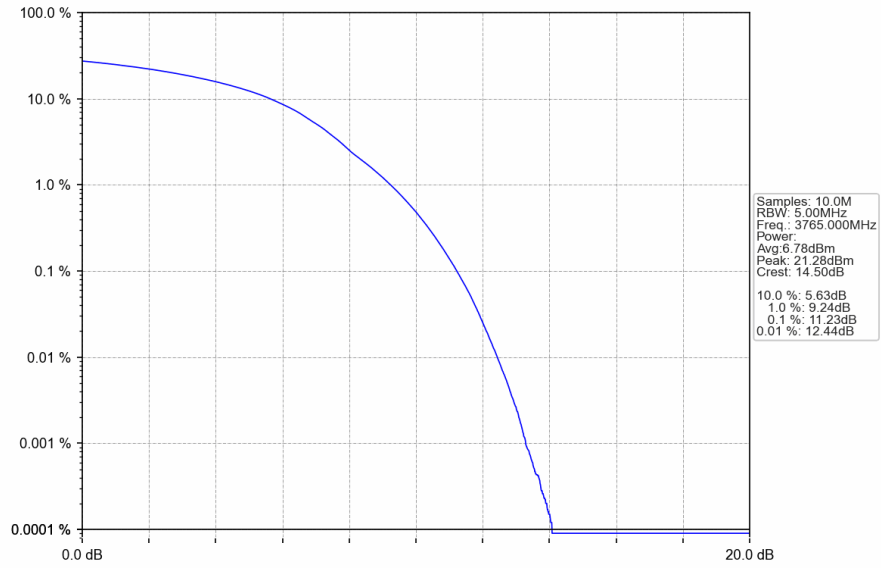
1.6.1 Test Result

5G NR n78a SCS=30kHz SISO 70MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM QPSK	3735	Outer_Full	11.12	/	/	<=13	Pass
	3750	Outer_Full	11.26	/	/	<=13	Pass
	3765	Outer_Full	11.23	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3735	Outer_Full	11.27	/	/	<=13	Pass
	3750	Outer_Full	11.29	/	/	<=13	Pass
	3765	Outer_Full	11.23	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3735	Outer_Full	11.60	/	/	<=13	Pass
	3750	Outer_Full	11.23	/	/	<=13	Pass
	3765	Outer_Full	11.41	/	/	<=13	Pass
CP-OFDM QPSK	3735	Outer_Full	11.72	/	/	<=13	Pass
	3750	Outer_Full	11.72	/	/	<=13	Pass
	3765	Outer_Full	11.90	/	/	<=13	Pass
CP-OFDM 64 QAM	3735	Outer_Full	11.76	/	/	<=13	Pass
	3750	Outer_Full	11.60	/	/	<=13	Pass
	3765	Outer_Full	11.76	/	/	<=13	Pass
CP-OFDM 256 QAM	3735	Outer_Full	11.95	/	/	<=13	Pass
	3750	Outer_Full	11.51	/	/	<=13	Pass
	3765	Outer_Full	11.58	/	/	<=13	Pass

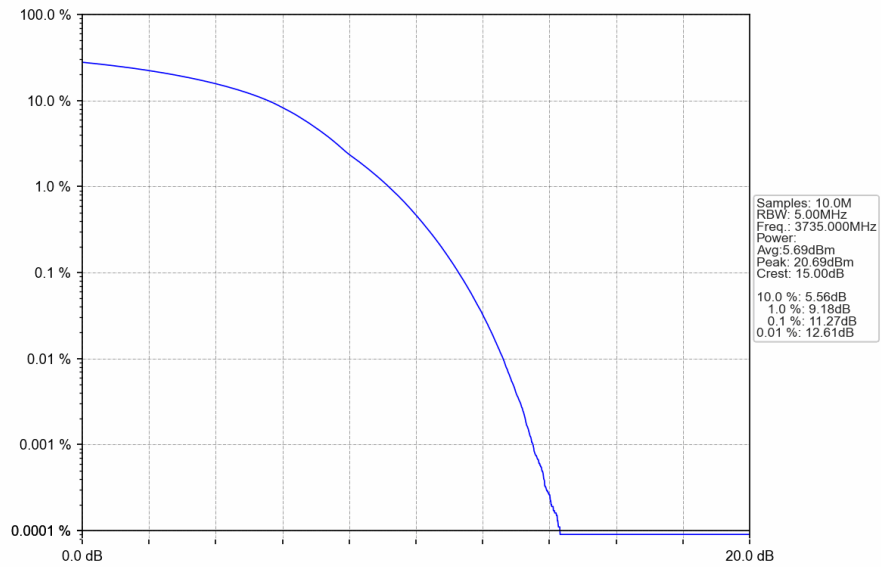
1.6.2 Test Graph



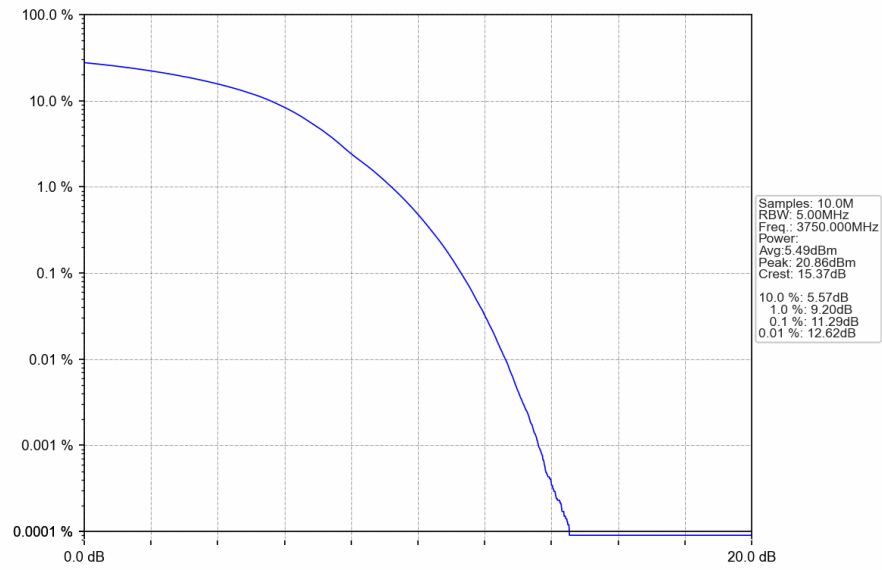
n78a_30kHz_SISO_NTNV_70MHz_DFT-s-OFDM_QPSK_3765MHz_Outer_Full



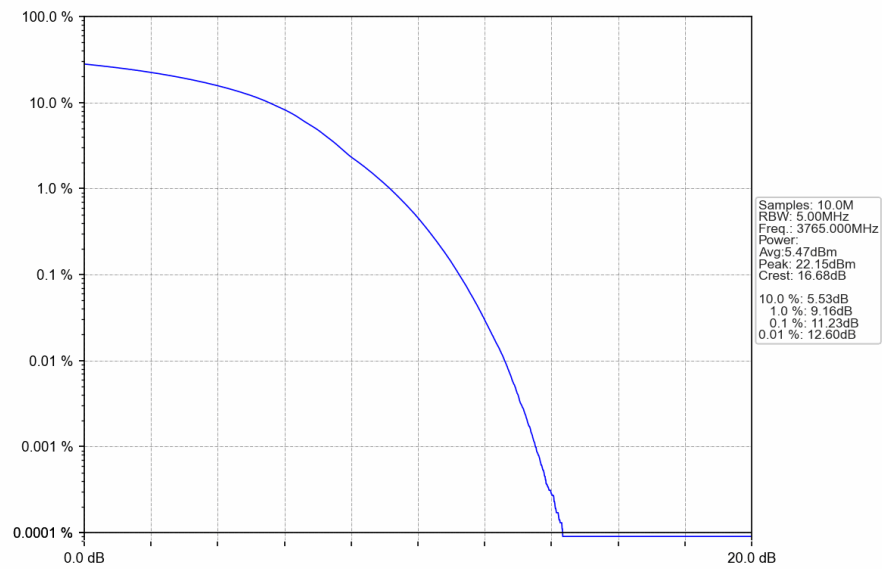
n78a_30kHz_SISO_NTNV_70MHz_DFT-s-OFDM_64_QAM_3735MHz_Outer_Full



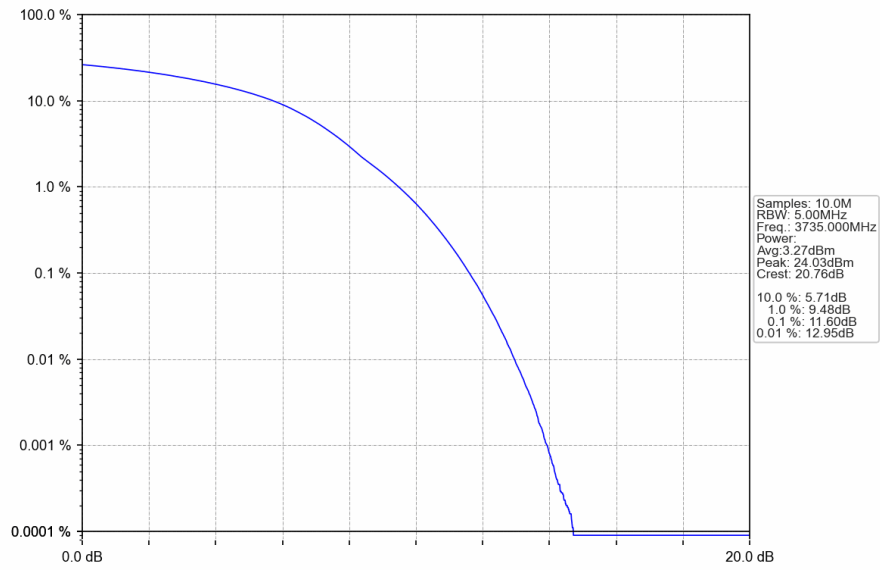
n78a_30kHz_SISO_NTNV_70MHz_DFT-s-OFDM_64_QAM_3750MHz_Outer_Full



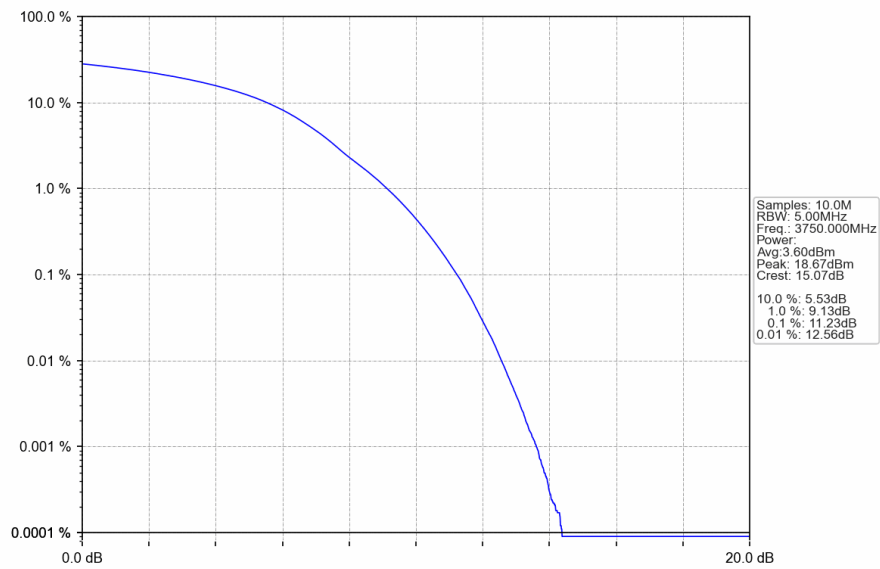
n78a_30kHz_SISO_NTNV_70MHz_DFT-s-OFDM_64_QAM_3765MHz_Outer_Full



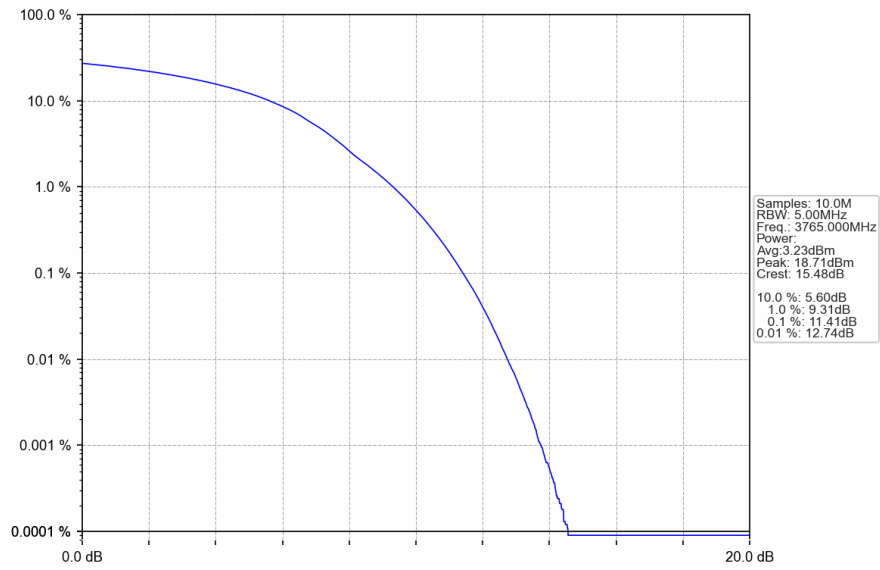
n78a_30kHz_SISO_NTNV_70MHz_DFT-s-OFDM_256_QAM_3735MHz_Outer_Full



n78a_30kHz_SISO_NTNV_70MHz_DFT-s-OFDM_256_QAM_3750MHz_Outer_Full



n78a_30kHz_SISO_NTNV_70MHz_DFT-s-OFDM_256_QAM_3765MHz_Outer_Full



n78a_30kHz_SISO_NTNV_70MHz_CP-OFDM_QPSK_3735MHz_Outer_Full

