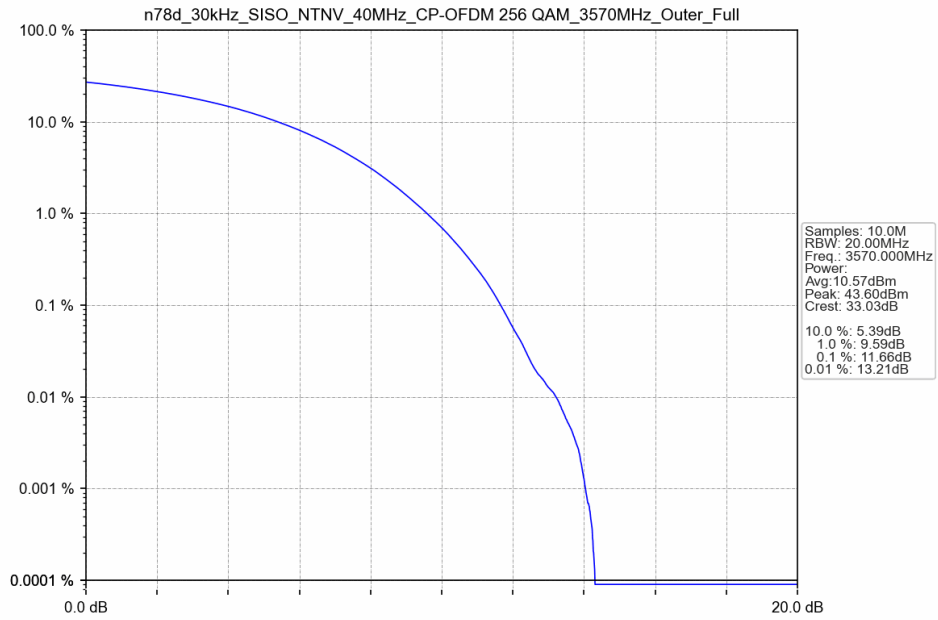
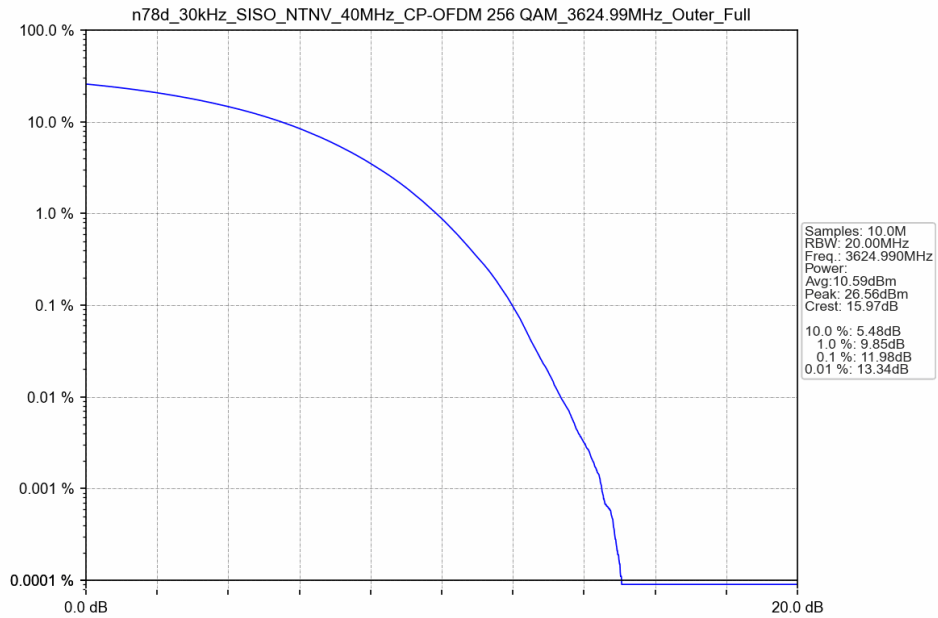


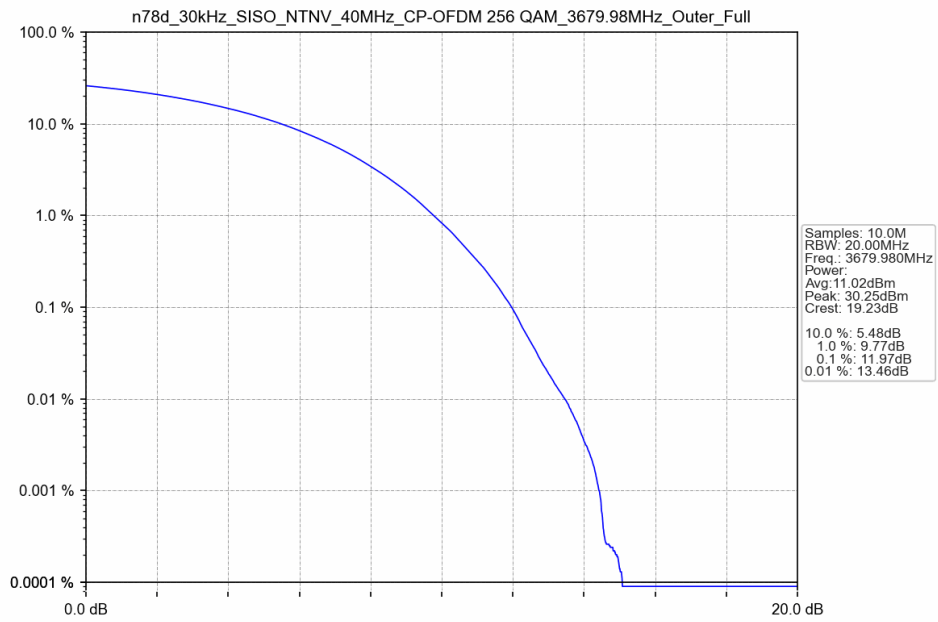
n78d 30kHz SISO NTN 40MHz CP-OFDM 256 QAM 3570MHz Outer Full



n78d 30kHz SISO NTN 40MHz CP-OFDM 256 QAM 3624.99MHz Outer Full



n78d 30kHz SISO NTN 40MHz CP-OFDM 256 QAM 3679.98MHz Outer Full

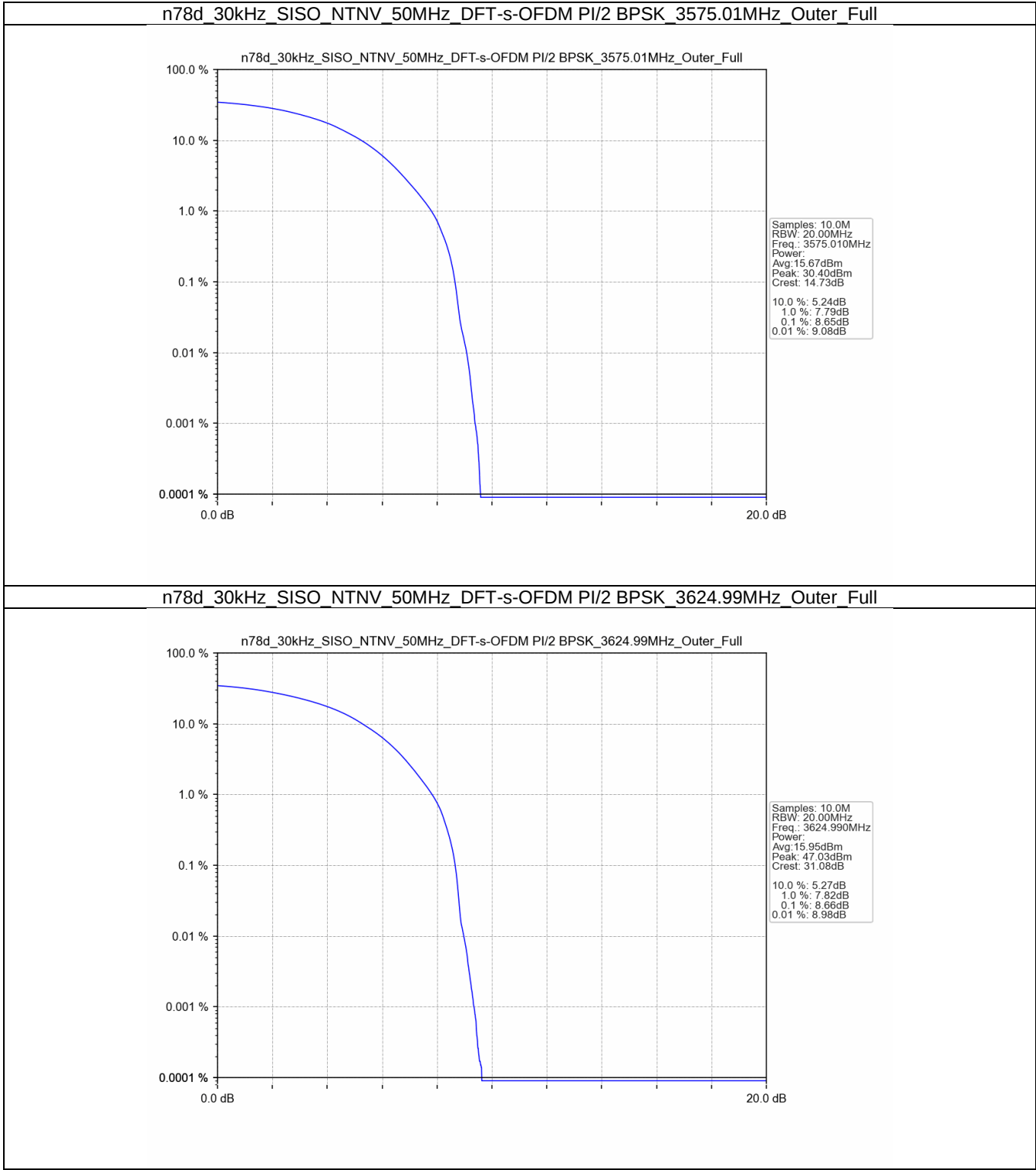


4.4 30k_SISO_50MHz_NTNV

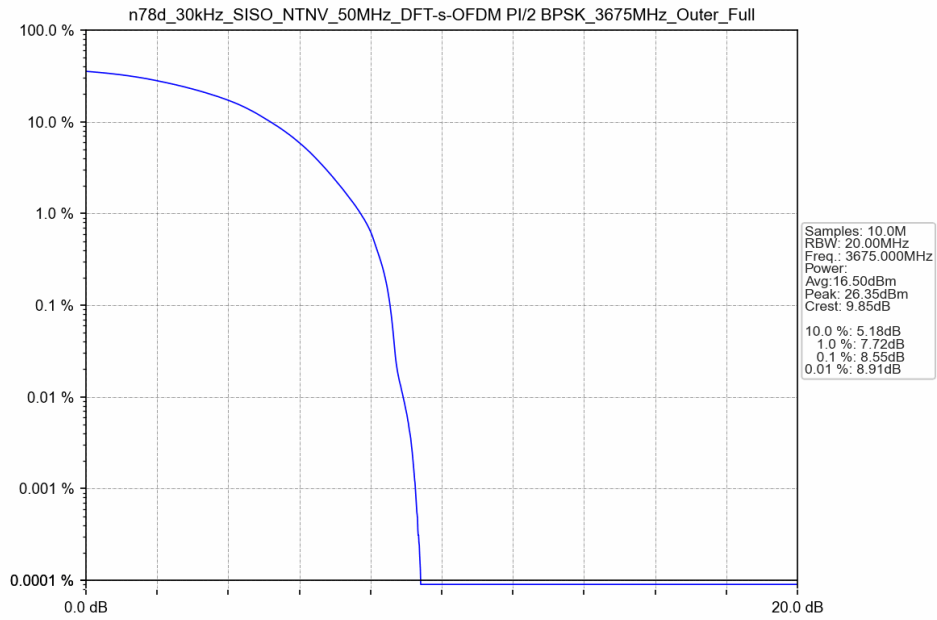
4.4.1 Test Result

5G NR n78d SCS=30kHz SISO 50MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3575.01	Outer_Full	8.65	/	/	<=13	Pass
	3624.99	Outer_Full	8.66	/	/	<=13	Pass
	3675	Outer_Full	8.55	/	/	<=13	Pass
DFT-s-OFDM QPSK	3575.01	Outer_Full	9.94	/	/	<=13	Pass
	3624.99	Outer_Full	9.92	/	/	<=13	Pass
	3675	Outer_Full	9.86	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3575.01	Outer_Full	10.28	/	/	<=13	Pass
	3624.99	Outer_Full	10.11	/	/	<=13	Pass
	3675	Outer_Full	10.28	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3575.01	Outer_Full	10.87	/	/	<=13	Pass
	3624.99	Outer_Full	10.32	/	/	<=13	Pass
	3675	Outer_Full	10.74	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3575.01	Outer_Full	10.42	/	/	<=13	Pass
	3624.99	Outer_Full	11.21	/	/	<=13	Pass
	3675	Outer_Full	10.54	/	/	<=13	Pass
CP-OFDM QPSK	3575.01	Outer_Full	11.88	/	/	<=13	Pass
	3624.99	Outer_Full	11.54	/	/	<=13	Pass
	3675	Outer_Full	11.93	/	/	<=13	Pass
CP-OFDM 16 QAM	3575.01	Outer_Full	12.03	/	/	<=13	Pass
	3624.99	Outer_Full	11.56	/	/	<=13	Pass
	3675	Outer_Full	12.10	/	/	<=13	Pass
CP-OFDM 64 QAM	3575.01	Outer_Full	11.78	/	/	<=13	Pass
	3624.99	Outer_Full	11.91	/	/	<=13	Pass
	3675	Outer_Full	11.77	/	/	<=13	Pass
CP-OFDM 256 QAM	3575.01	Outer_Full	12.07	/	/	<=13	Pass
	3624.99	Outer_Full	11.61	/	/	<=13	Pass
	3675	Outer_Full	12.08	/	/	<=13	Pass

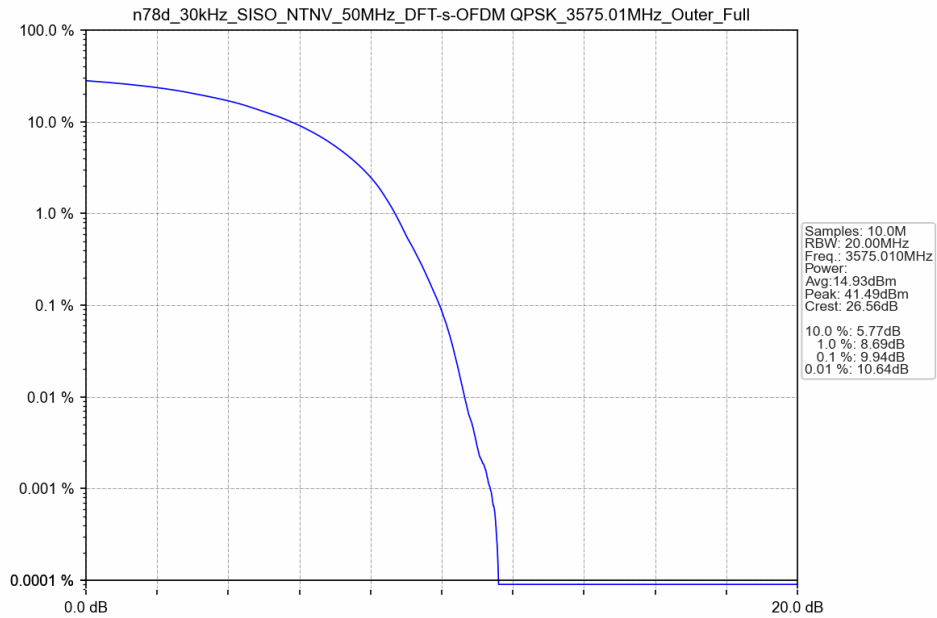
4.4.2 Test Graph



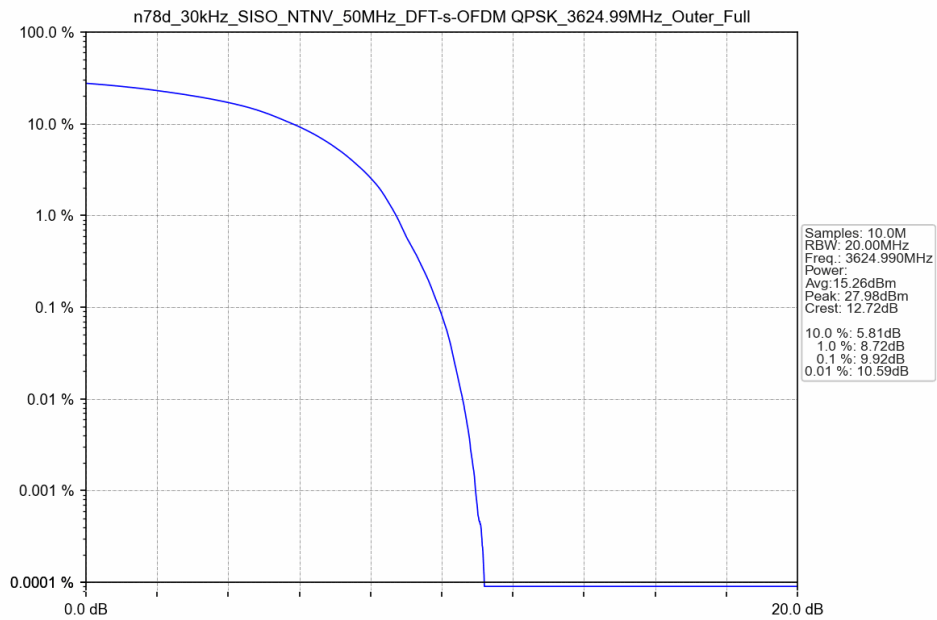
n78d 30kHz SISO NTN 50MHz DFT-s-OFDM PI/2 BPSK 3675MHz Outer Full



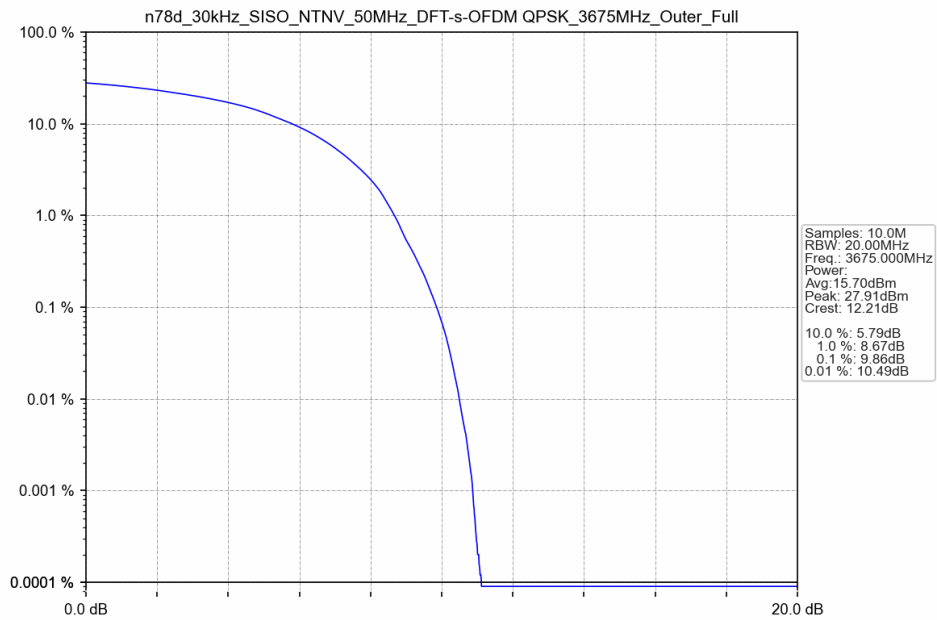
n78d 30kHz SISO NTN 50MHz DFT-s-OFDM QPSK 3575.01MHz Outer Full



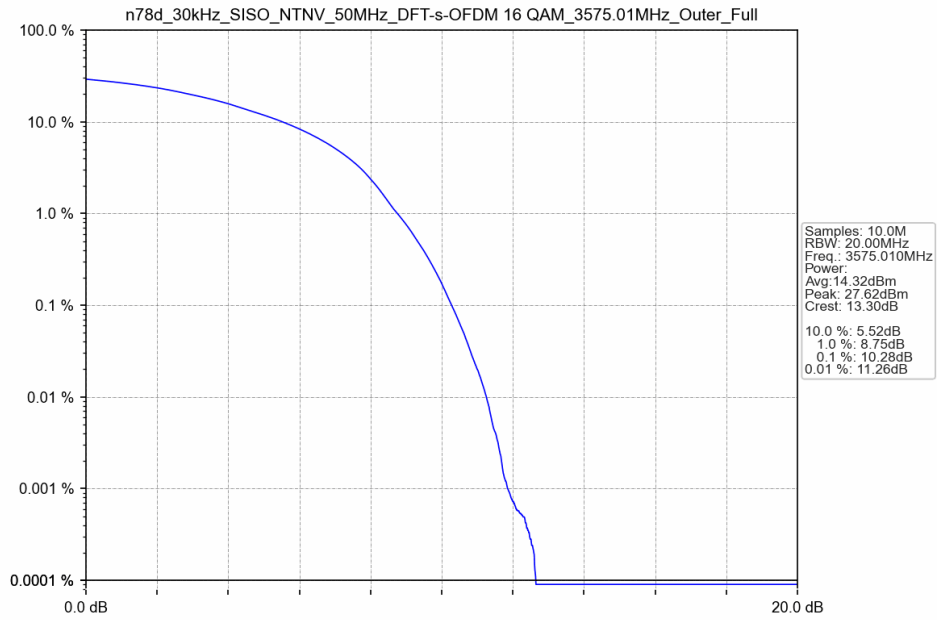
n78d 30kHz SISO NTN 50MHz DFT-s-OFDM QPSK 3624.99MHz Outer Full



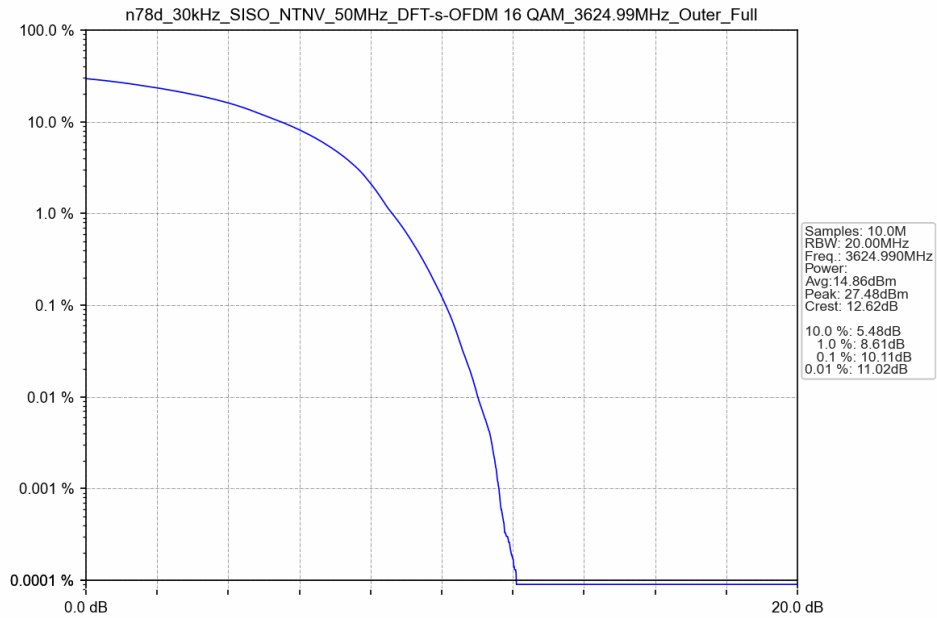
n78d 30kHz SISO NTN 50MHz DFT-s-OFDM QPSK 3675MHz Outer Full



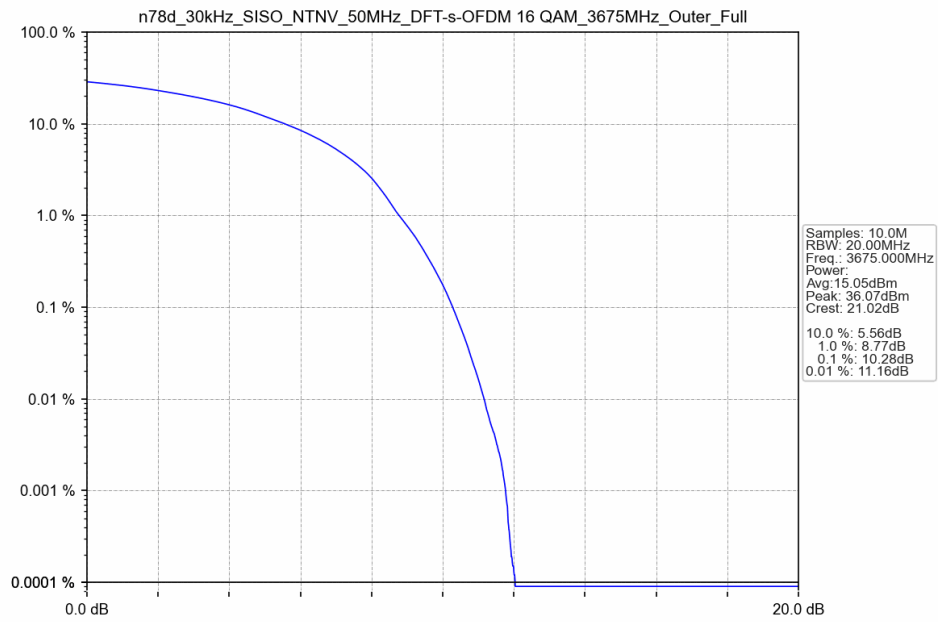
n78d 30kHz SISO NTN 50MHz DFT-s-OFDM 16 QAM 3575.01MHz Outer Full



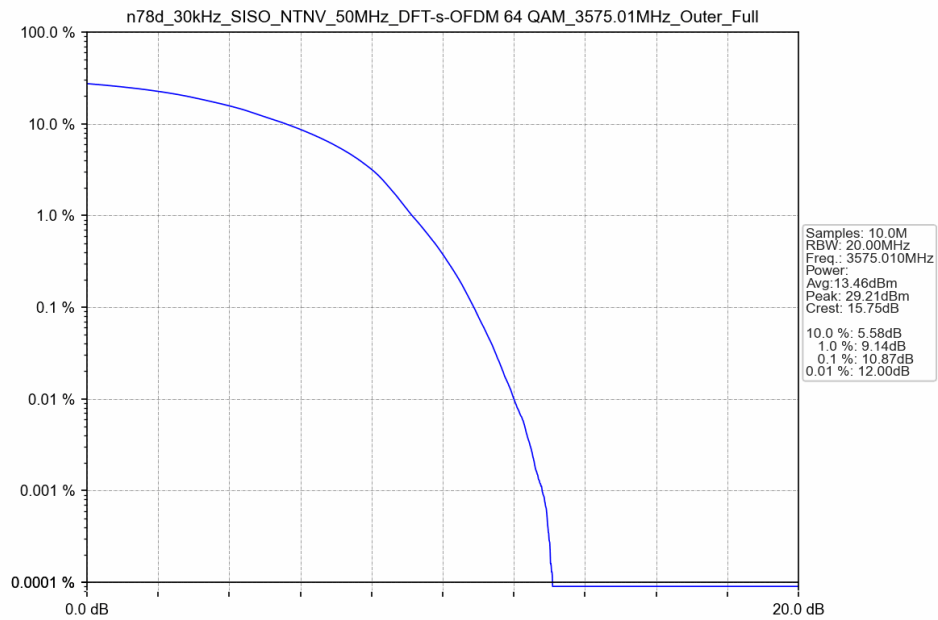
n78d 30kHz SISO NTN 50MHz DFT-s-OFDM 16 QAM 3624.99MHz Outer Full



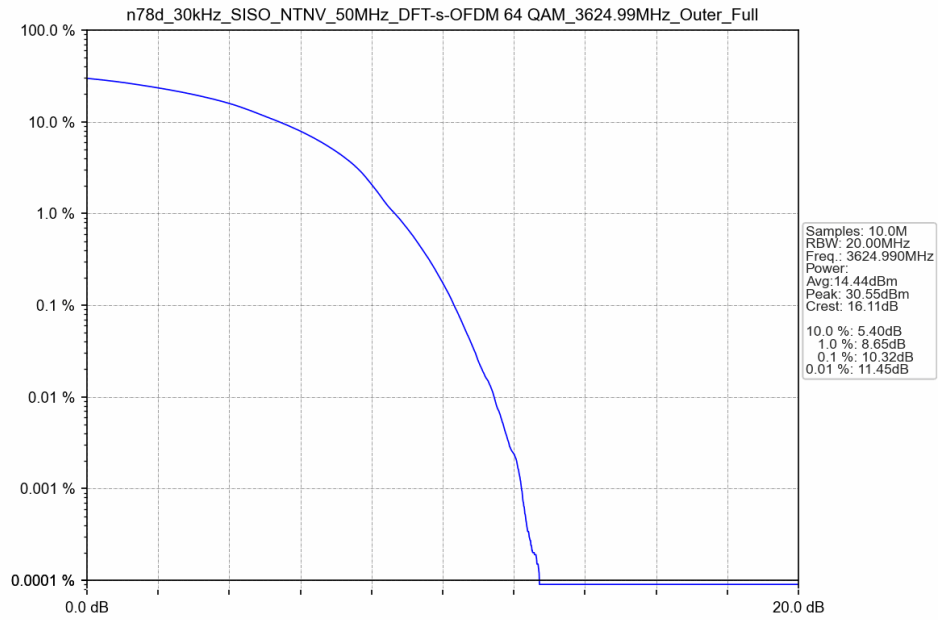
n78d 30kHz SISO NTN 50MHz DFT-s-OFDM 16 QAM 3675MHz Outer Full



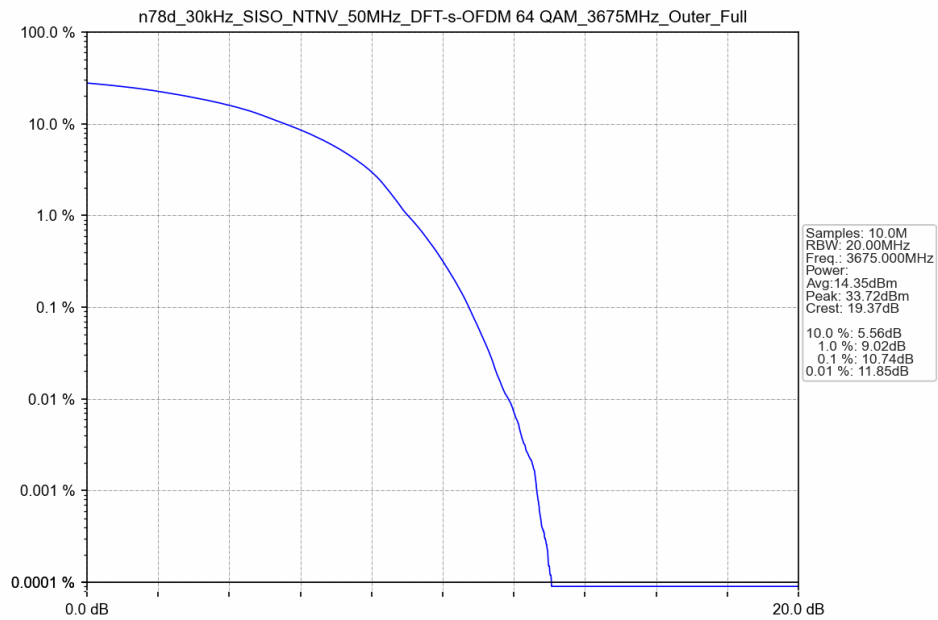
n78d 30kHz SISO NTN 50MHz DFT-s-OFDM 64 QAM 3575.01MHz Outer Full



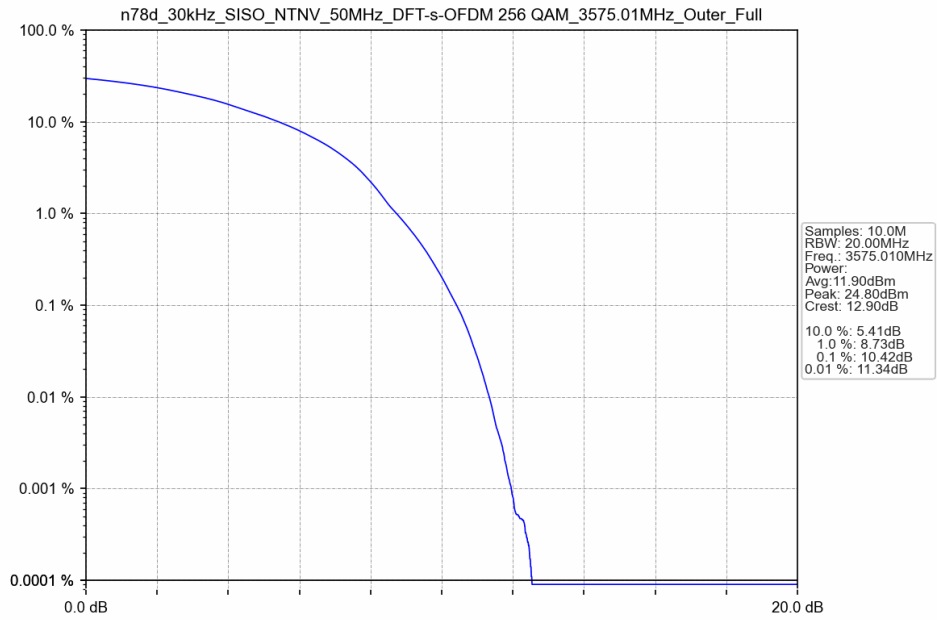
n78d 30kHz SISO NTN 50MHz DFT-s-OFDM 64 QAM 3624.99MHz Outer Full



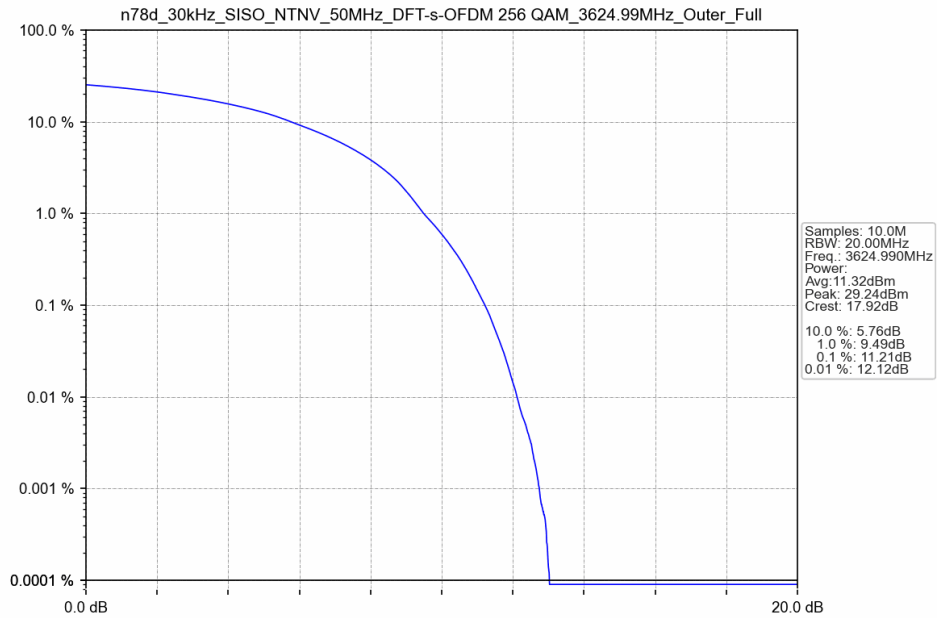
n78d 30kHz SISO NTN 50MHz DFT-s-OFDM 64 QAM 3675MHz Outer Full



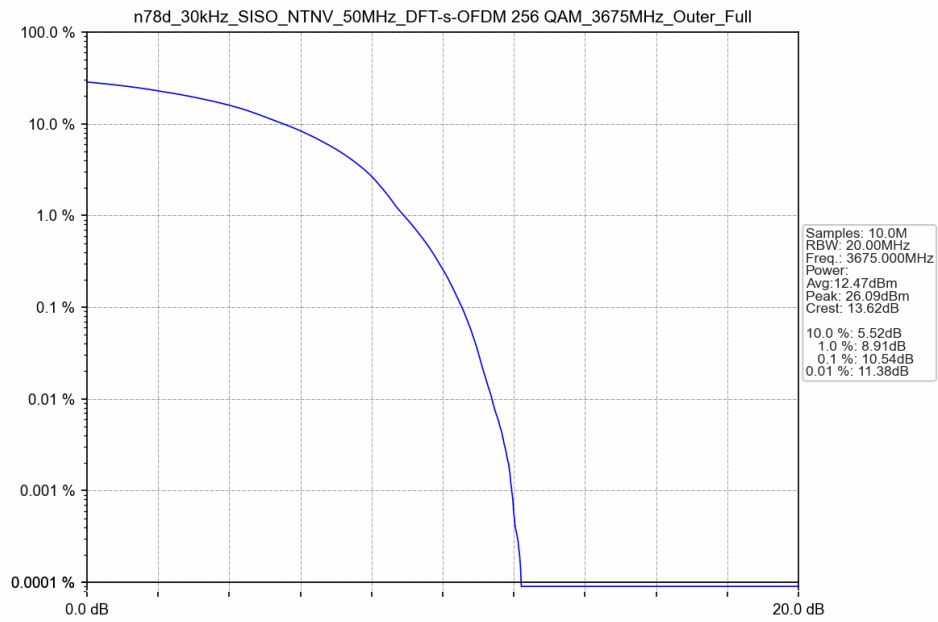
n78d 30kHz SISO NTN 50MHz DFT-s-OFDM 256 QAM 3575.01MHz Outer Full



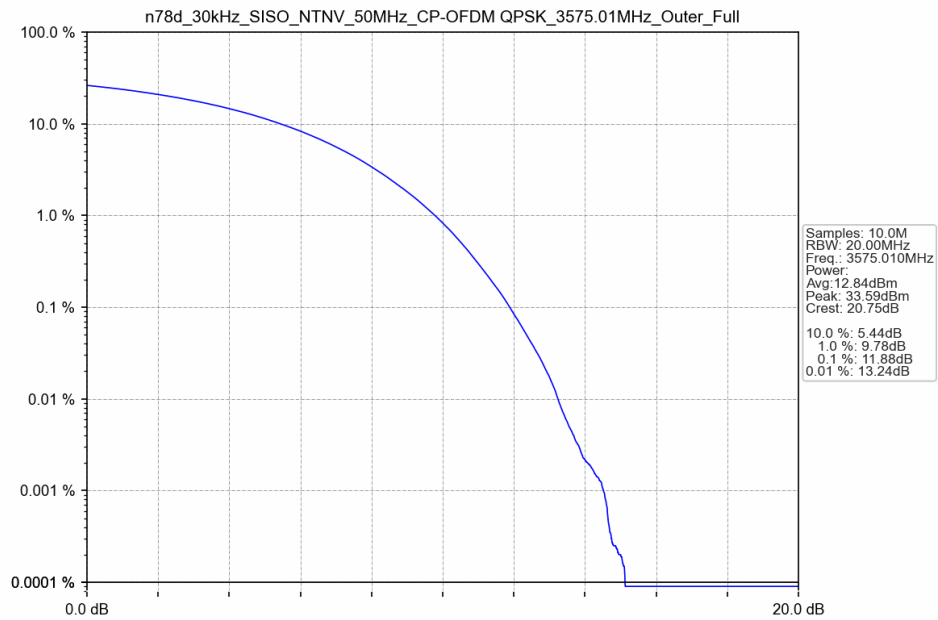
n78d 30kHz SISO NTN 50MHz DFT-s-OFDM 256 QAM 3624.99MHz Outer Full



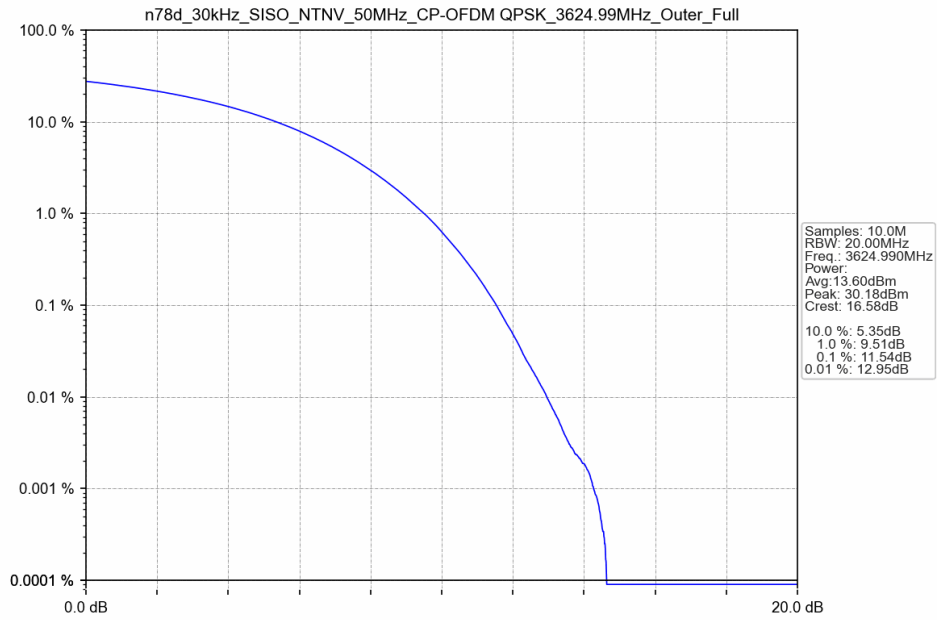
n78d 30kHz SISO NTN 50MHz DFT-s-OFDM 256 QAM 3675MHz Outer Full



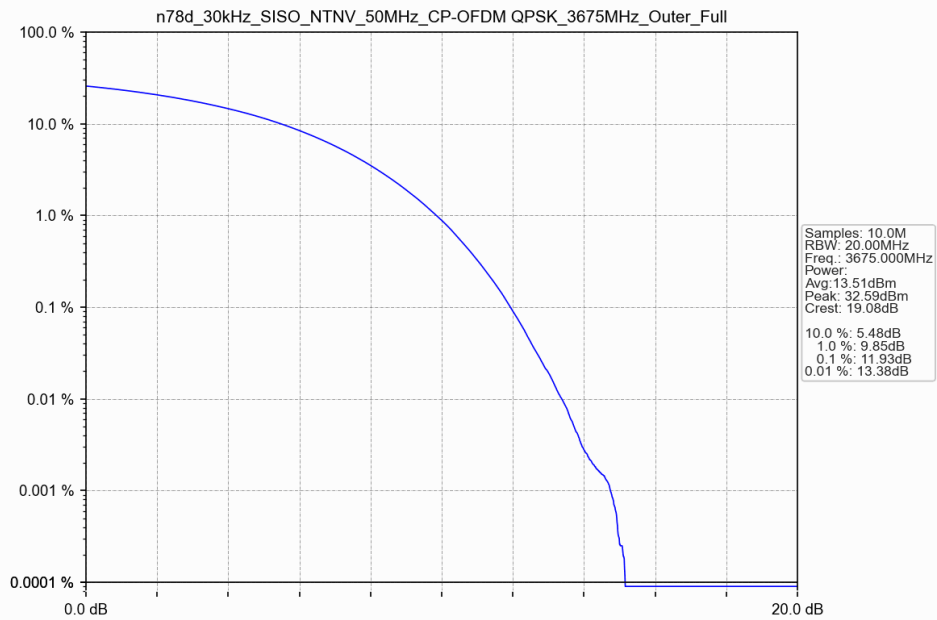
n78d 30kHz SISO NTN 50MHz CP-OFDM QPSK 3575.01MHz Outer Full



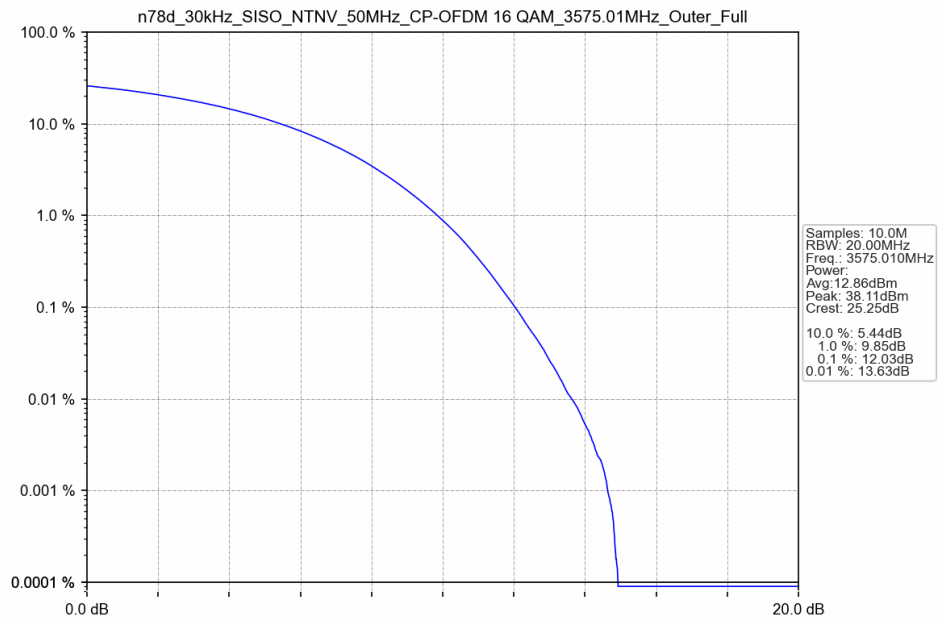
n78d 30kHz SISO NTN 50MHz CP-OFDM QPSK 3624.99MHz Outer Full



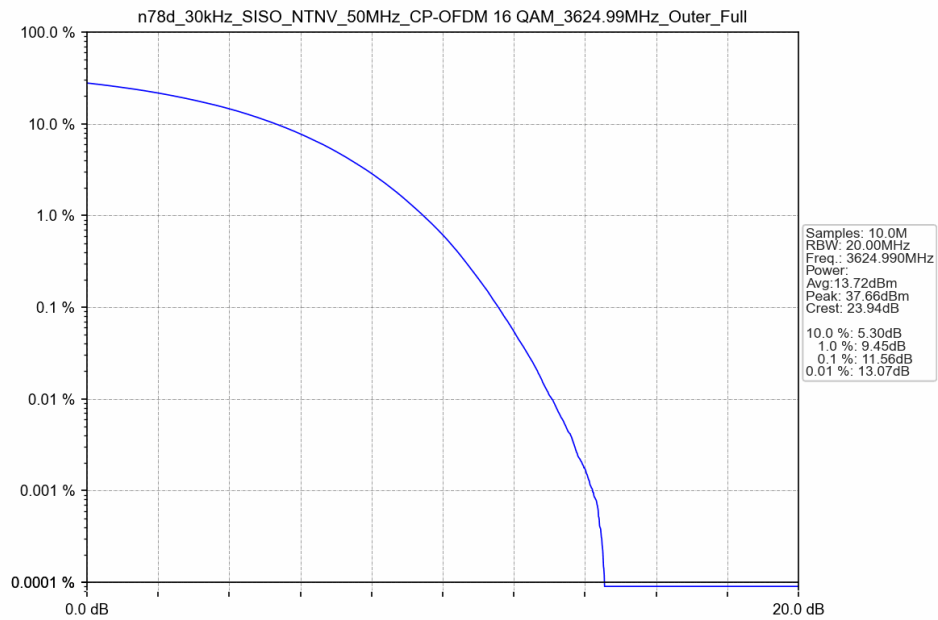
n78d 30kHz SISO NTN 50MHz CP-OFDM QPSK 3675MHz Outer Full



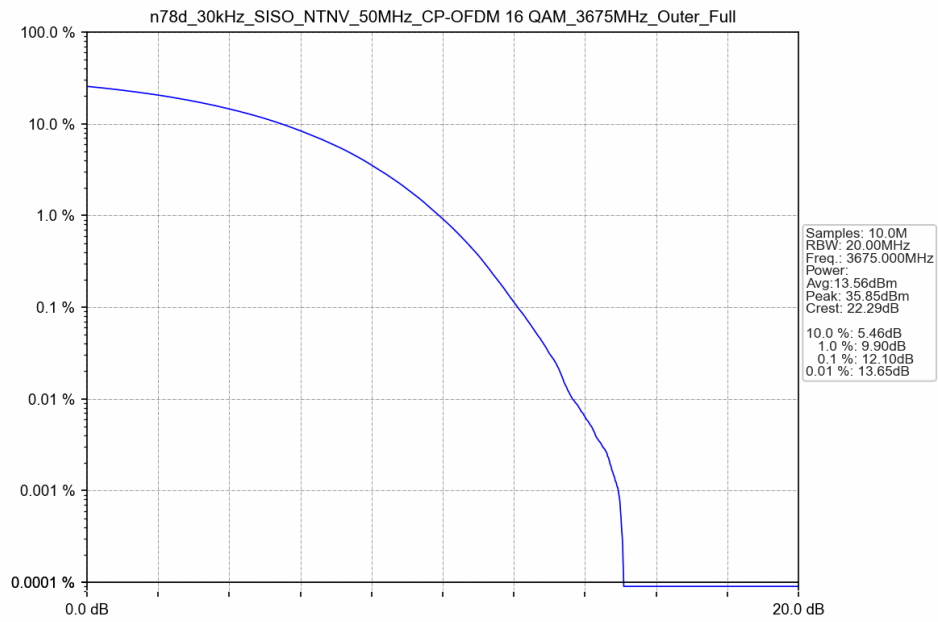
n78d 30kHz SISO NTN 50MHz CP-OFDM 16 QAM 3575.01MHz Outer Full



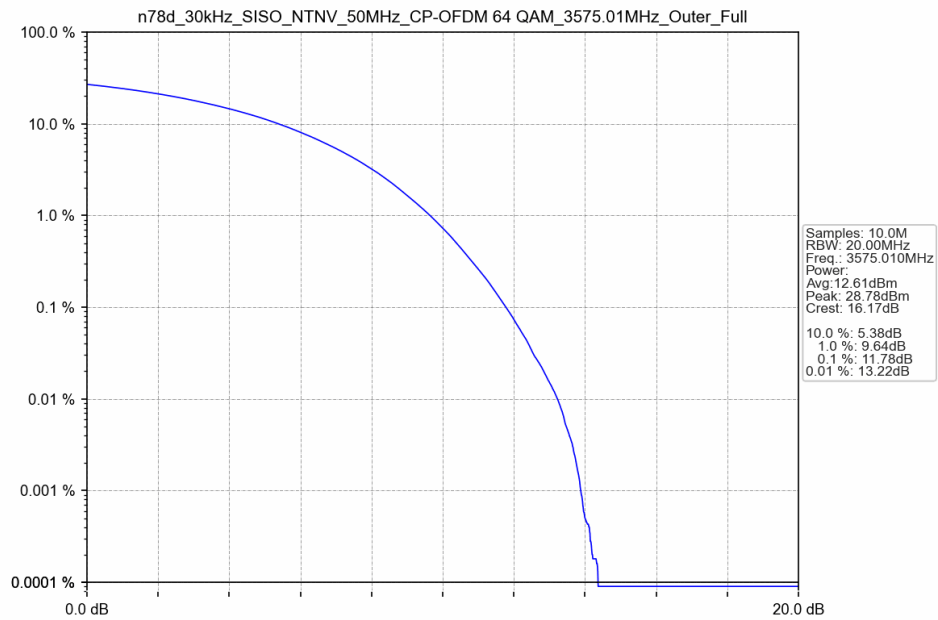
n78d 30kHz SISO NTN 50MHz CP-OFDM 16 QAM 3624.99MHz Outer Full



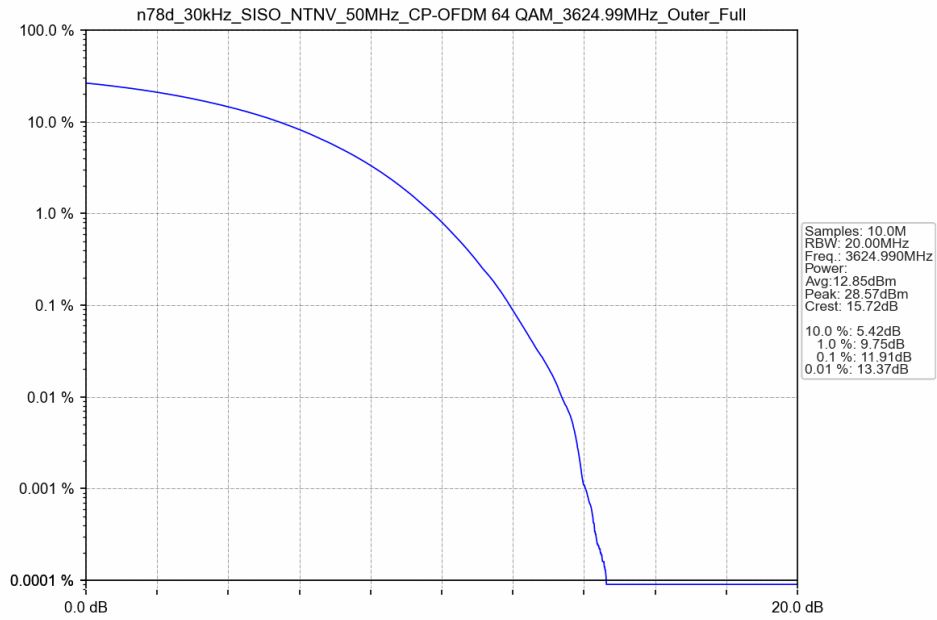
n78d 30kHz SISO NTN 50MHz CP-OFDM 16 QAM 3675MHz Outer Full



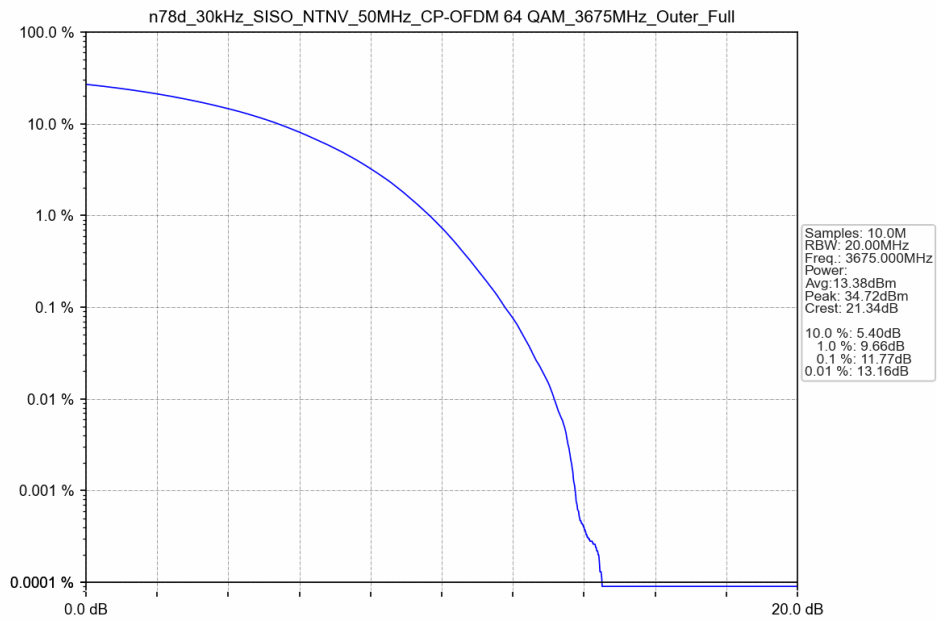
n78d 30kHz SISO NTN 50MHz CP-OFDM 64 QAM 3575.01MHz Outer Full



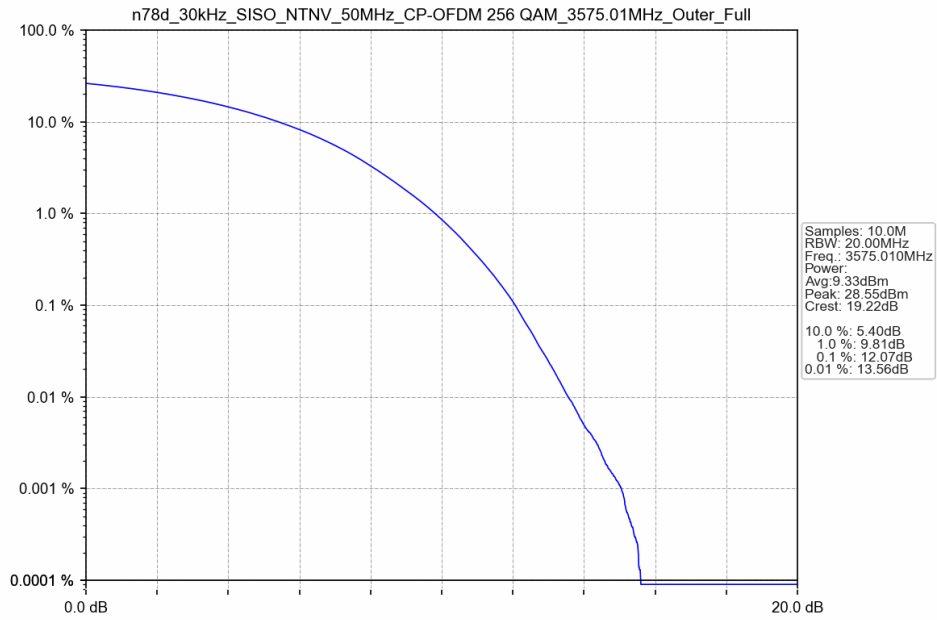
n78d 30kHz SISO NTN 50MHz CP-OFDM 64 QAM 3624.99MHz Outer Full



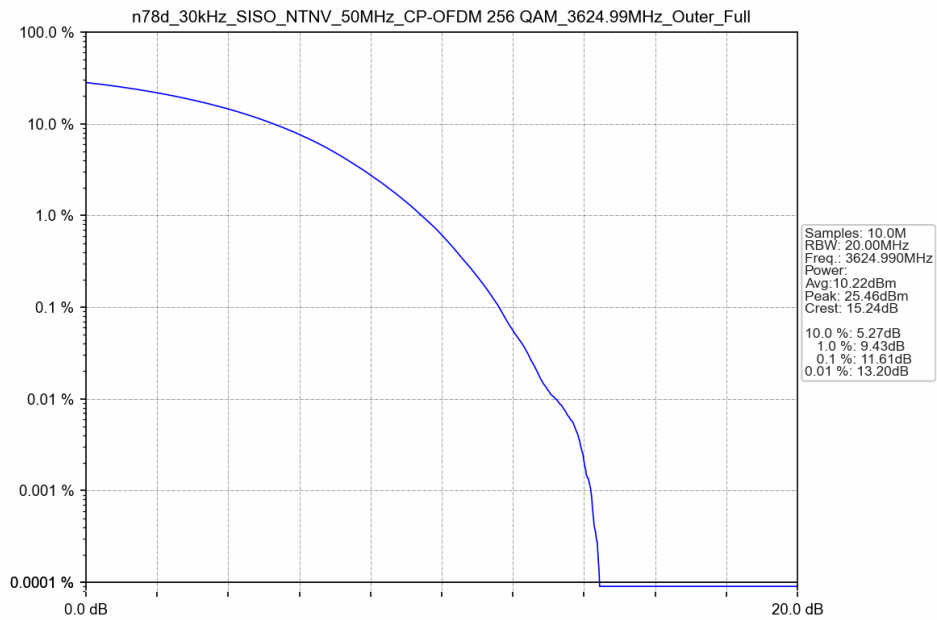
n78d 30kHz SISO NTN 50MHz CP-OFDM 64 QAM 3675MHz Outer Full



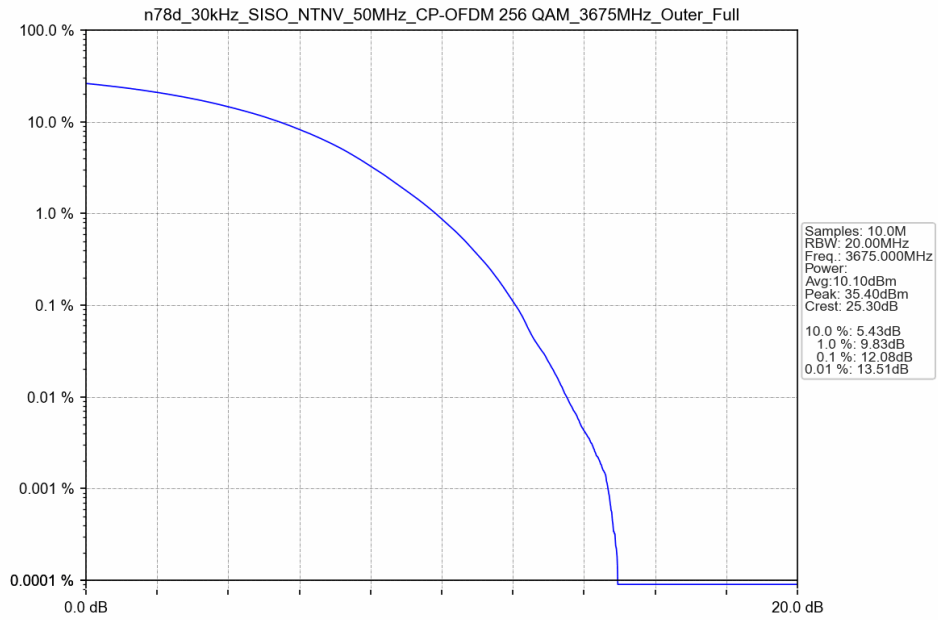
n78d 30kHz SISO NTN 50MHz CP-OFDM 256 QAM 3575.01MHz Outer Full



n78d 30kHz SISO NTN 50MHz CP-OFDM 256 QAM 3624.99MHz Outer Full



n78d 30kHz SISO NTN 50MHz CP-OFDM 256 QAM 3675MHz Outer Full

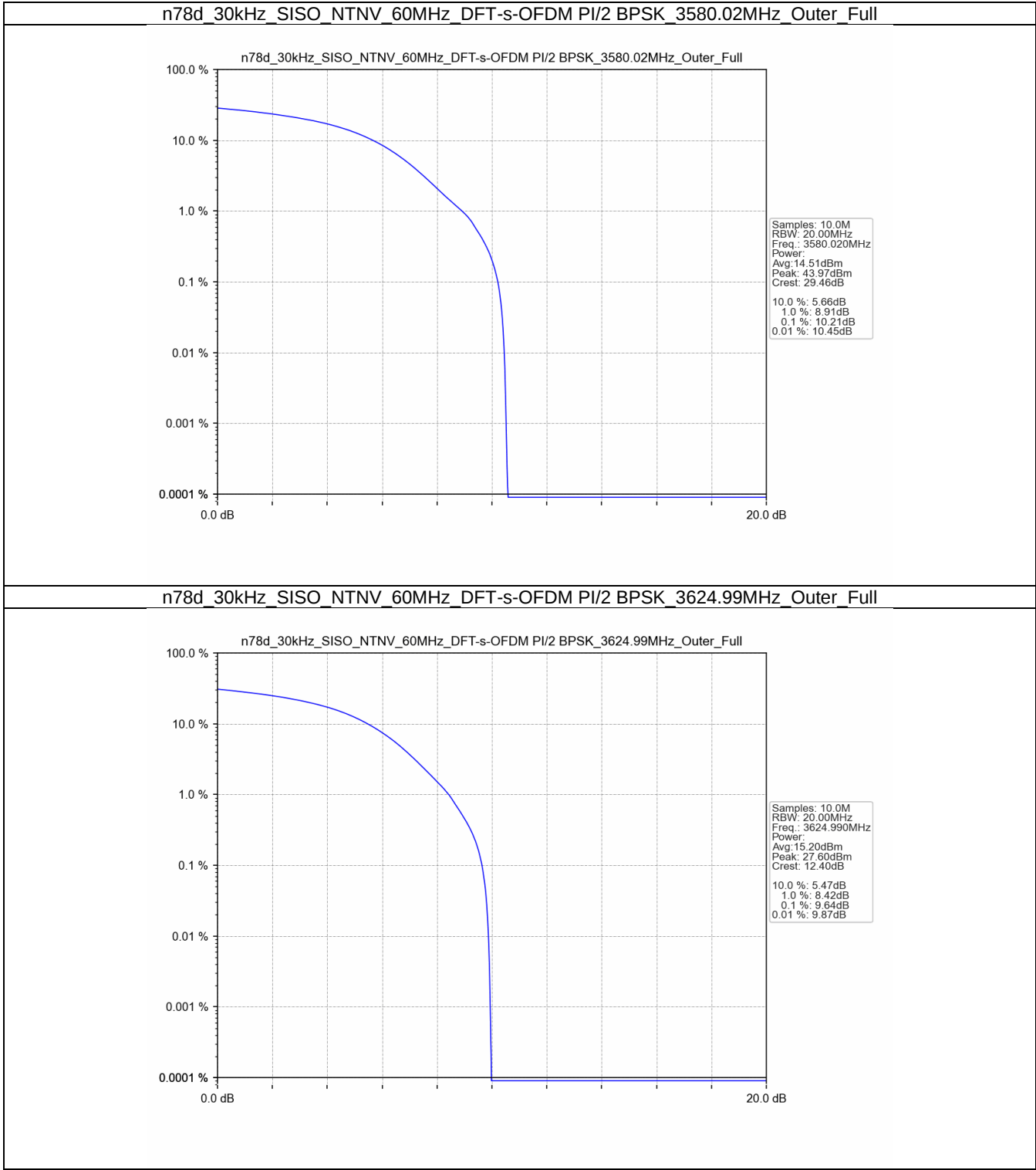


4.5 30k_SISO_60MHz_NTNV

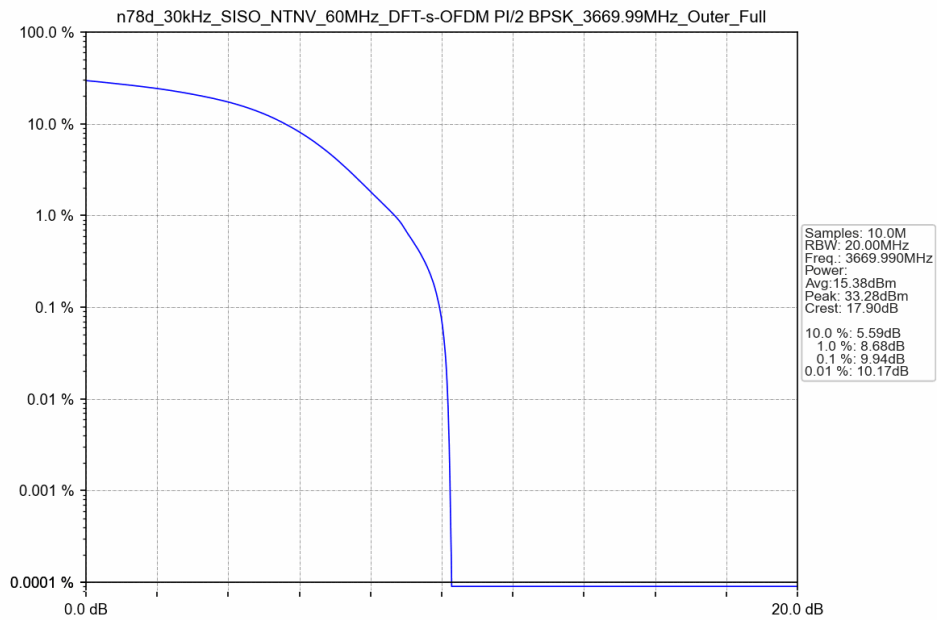
4.5.1 Test Result

5G NR n78d SCS=30kHz SISO 60MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3580.02	Outer_Full	10.21	/	/	<=13	Pass
	3624.99	Outer_Full	9.64	/	/	<=13	Pass
	3669.99	Outer_Full	9.94	/	/	<=13	Pass
DFT-s-OFDM QPSK	3580.02	Outer_Full	10.18	/	/	<=13	Pass
	3624.99	Outer_Full	10.13	/	/	<=13	Pass
	3669.99	Outer_Full	10.05	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3580.02	Outer_Full	10.86	/	/	<=13	Pass
	3624.99	Outer_Full	10.91	/	/	<=13	Pass
	3669.99	Outer_Full	10.68	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3580.02	Outer_Full	10.38	/	/	<=13	Pass
	3624.99	Outer_Full	10.65	/	/	<=13	Pass
	3669.99	Outer_Full	10.65	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3580.02	Outer_Full	11.07	/	/	<=13	Pass
	3624.99	Outer_Full	10.65	/	/	<=13	Pass
	3669.99	Outer_Full	11.15	/	/	<=13	Pass
CP-OFDM QPSK	3580.02	Outer_Full	11.92	/	/	<=13	Pass
	3624.99	Outer_Full	11.93	/	/	<=13	Pass
	3669.99	Outer_Full	11.87	/	/	<=13	Pass
CP-OFDM 16 QAM	3580.02	Outer_Full	12.13	/	/	<=13	Pass
	3624.99	Outer_Full	11.62	/	/	<=13	Pass
	3669.99	Outer_Full	11.64	/	/	<=13	Pass
CP-OFDM 64 QAM	3580.02	Outer_Full	11.99	/	/	<=13	Pass
	3624.99	Outer_Full	11.99	/	/	<=13	Pass
	3669.99	Outer_Full	12.13	/	/	<=13	Pass
CP-OFDM 256 QAM	3580.02	Outer_Full	11.83	/	/	<=13	Pass
	3624.99	Outer_Full	11.83	/	/	<=13	Pass
	3669.99	Outer_Full	12.11	/	/	<=13	Pass

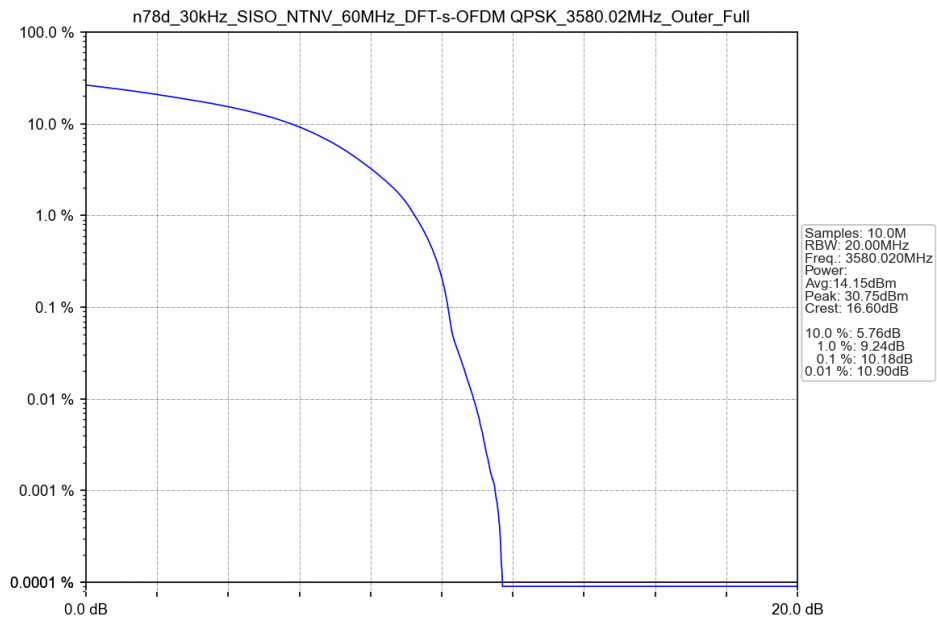
4.5.2 Test Graph



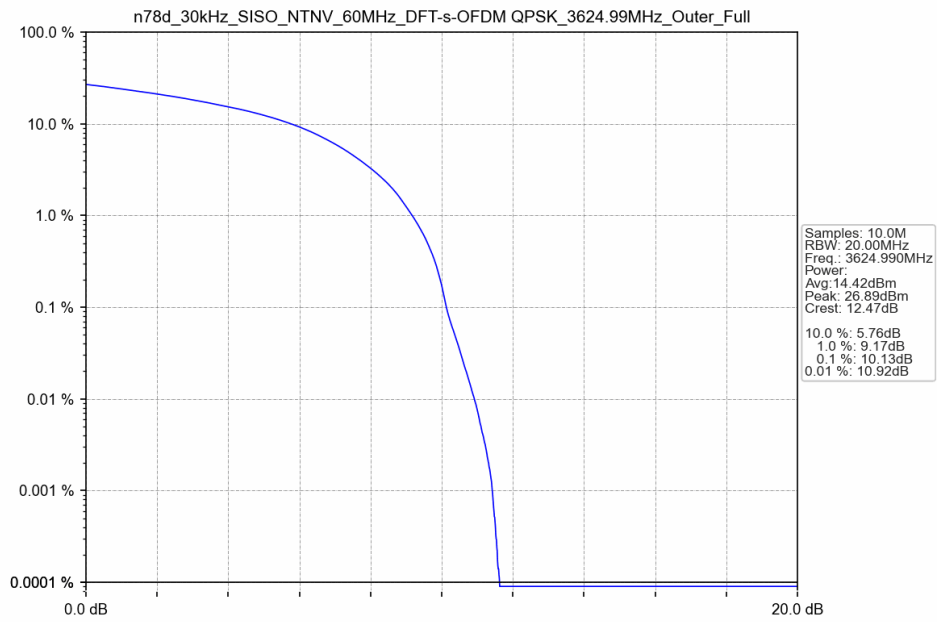
n78d 30kHz SISO NTN 60MHz DFT-s-OFDM PI/2 BPSK 3669.99MHz Outer Full



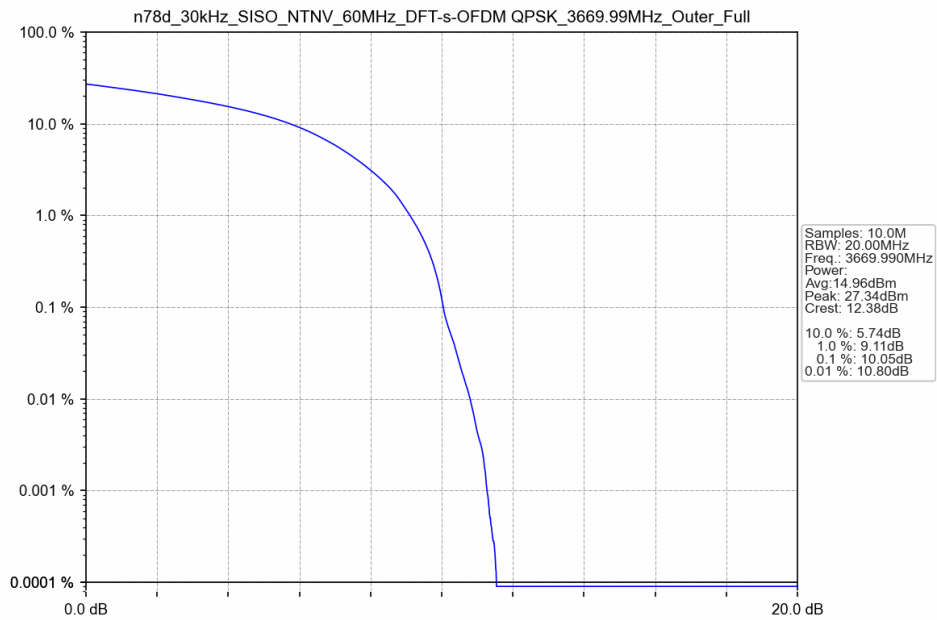
n78d 30kHz SISO NTN 60MHz DFT-s-OFDM QPSK 3580.02MHz Outer Full



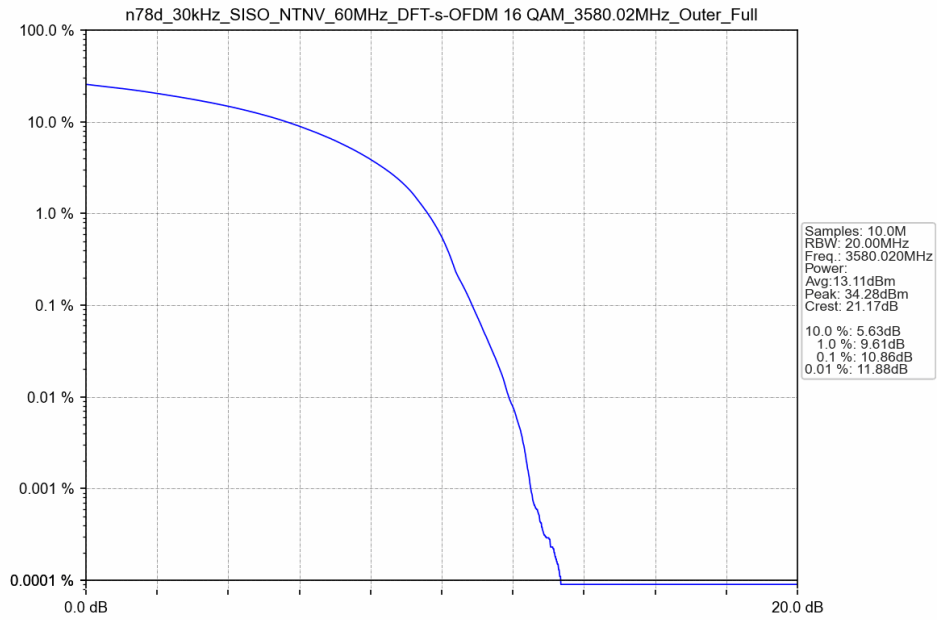
n78d 30kHz SISO NTN 60MHz DFT-s-OFDM QPSK 3624.99MHz Outer Full



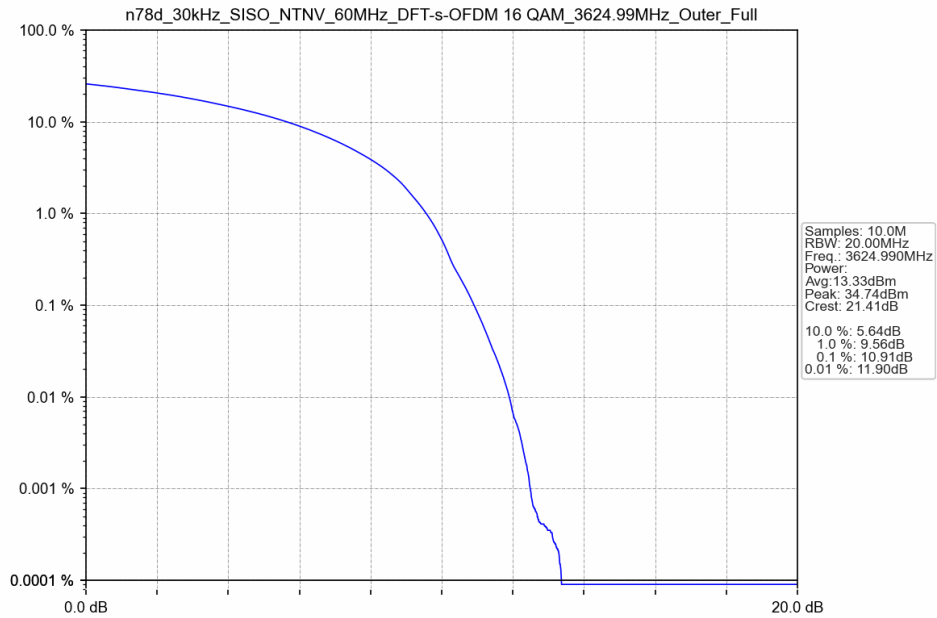
n78d 30kHz SISO NTN 60MHz DFT-s-OFDM QPSK 3669.99MHz Outer Full



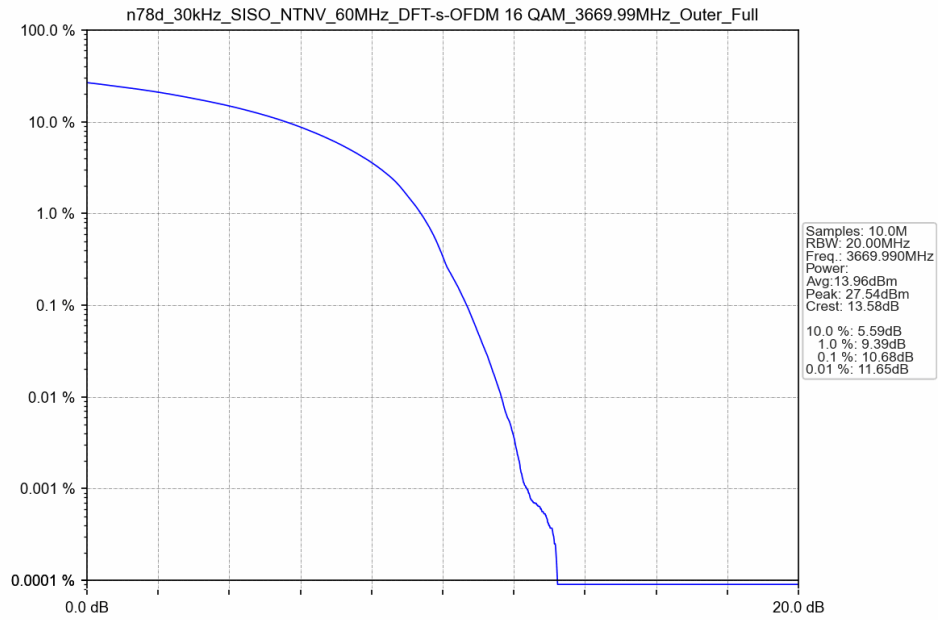
n78d 30kHz SISO NTN 60MHz DFT-s-OFDM 16 QAM 3580.02MHz Outer Full



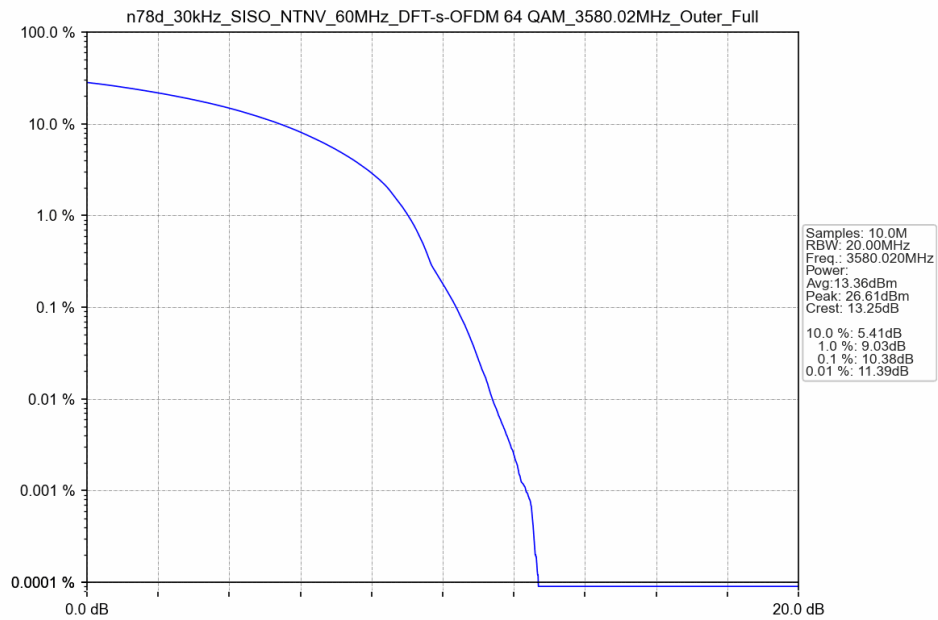
n78d 30kHz SISO NTN 60MHz DFT-s-OFDM 16 QAM 3624.99MHz Outer Full



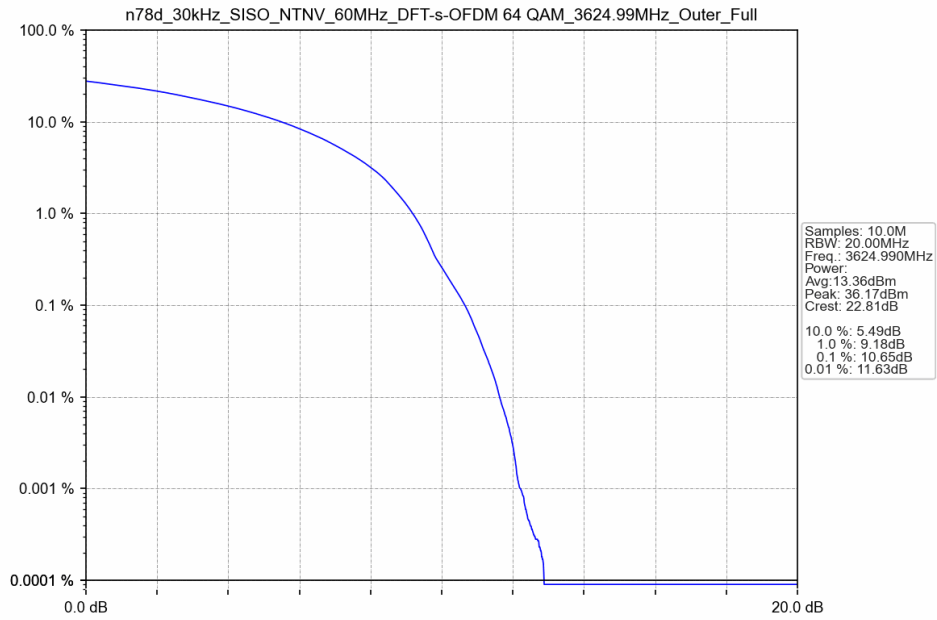
n78d 30kHz SISO NTN 60MHz DFT-s-OFDM 16 QAM 3669.99MHz Outer Full



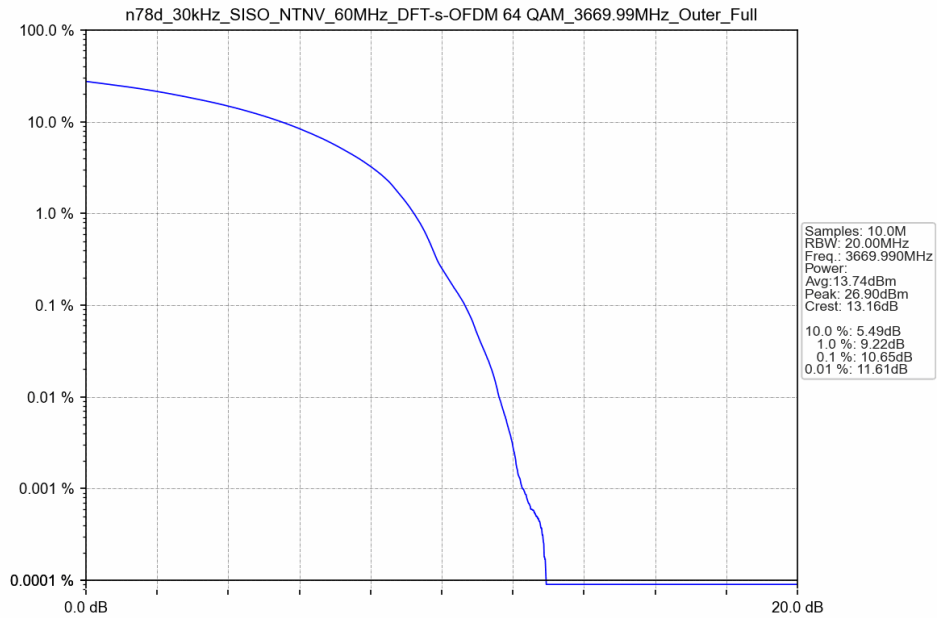
n78d 30kHz SISO NTN 60MHz DFT-s-OFDM 64 QAM 3580.02MHz Outer Full



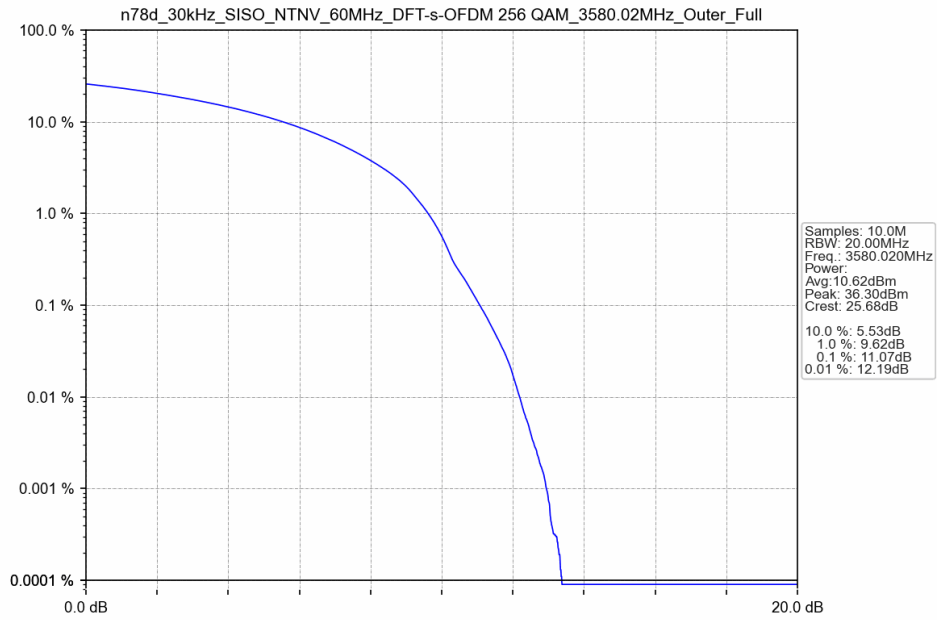
n78d 30kHz SISO NTN 60MHz DFT-s-OFDM 64 QAM 3624.99MHz Outer Full



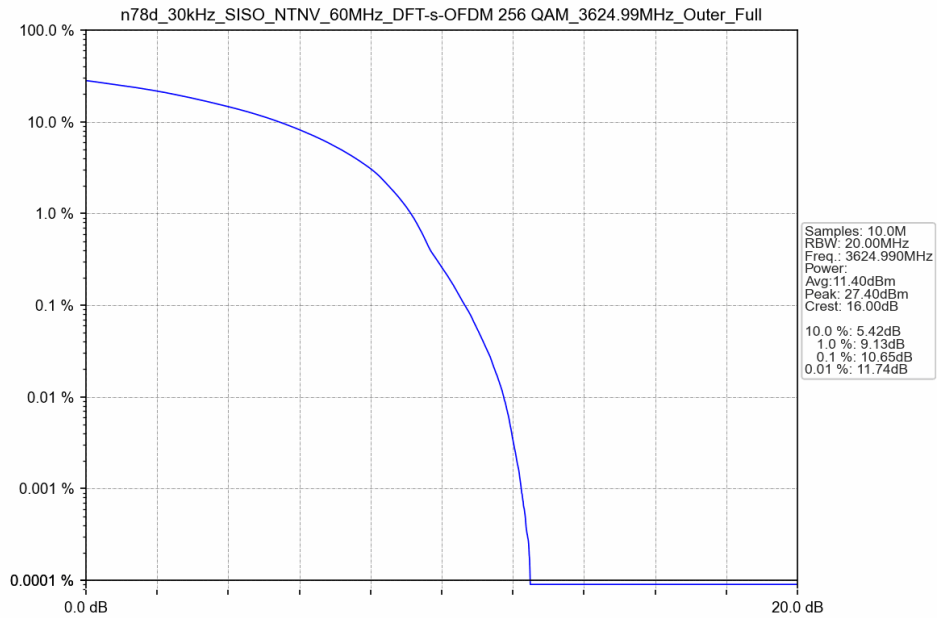
n78d 30kHz SISO NTN 60MHz DFT-s-OFDM 64 QAM 3669.99MHz Outer Full



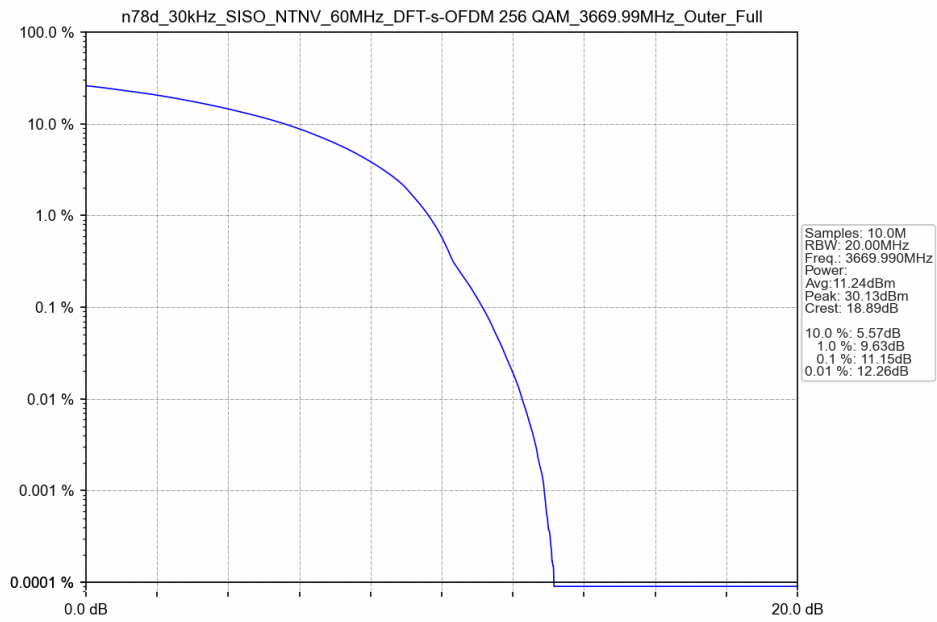
n78d 30kHz SISO NTN 60MHz DFT-s-OFDM 256 QAM 3580.02MHz Outer Full



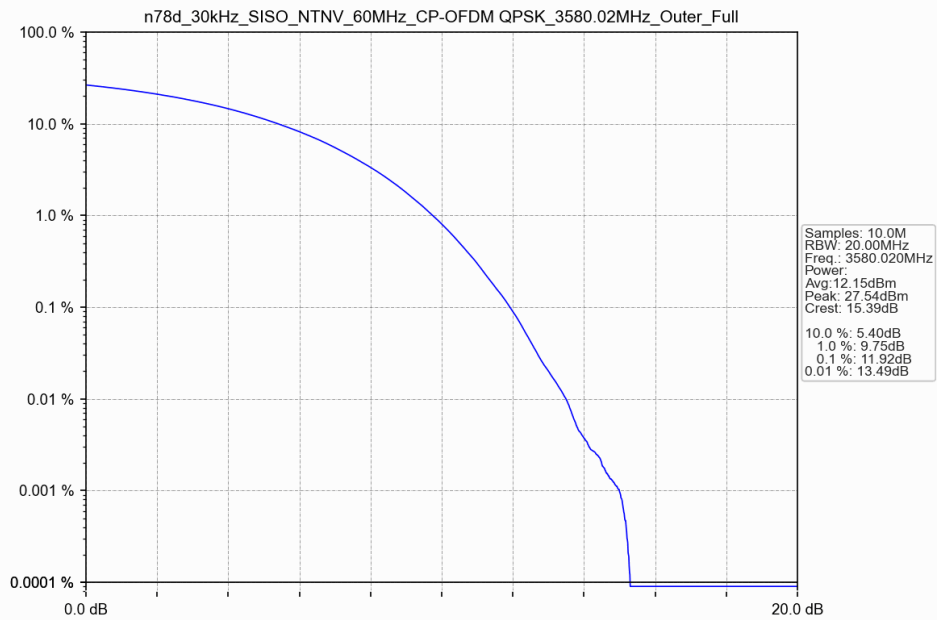
n78d 30kHz SISO NTN 60MHz DFT-s-OFDM 256 QAM 3624.99MHz Outer Full



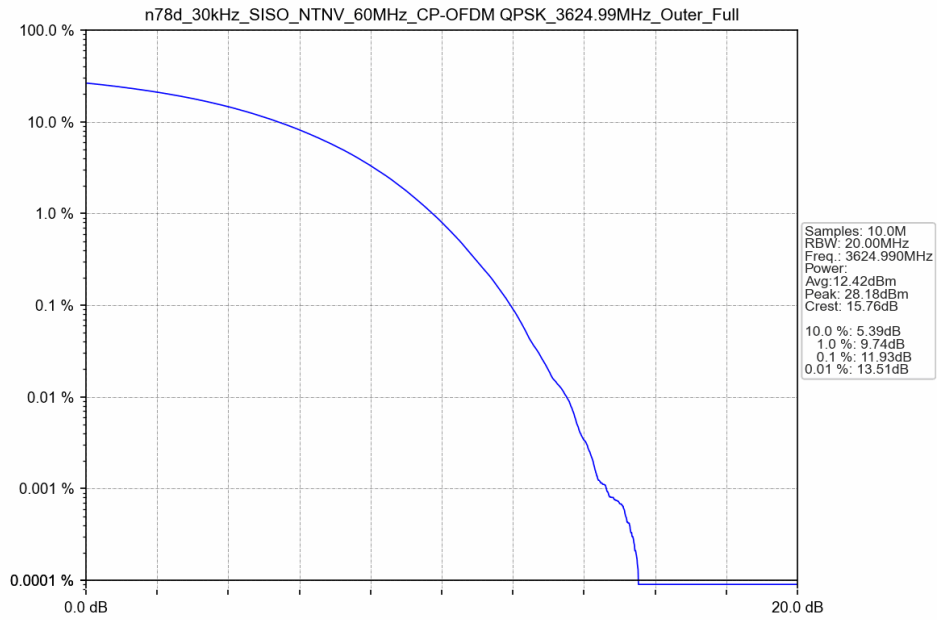
n78d 30kHz SISO NTN 60MHz DFT-s-OFDM 256 QAM 3669.99MHz Outer Full



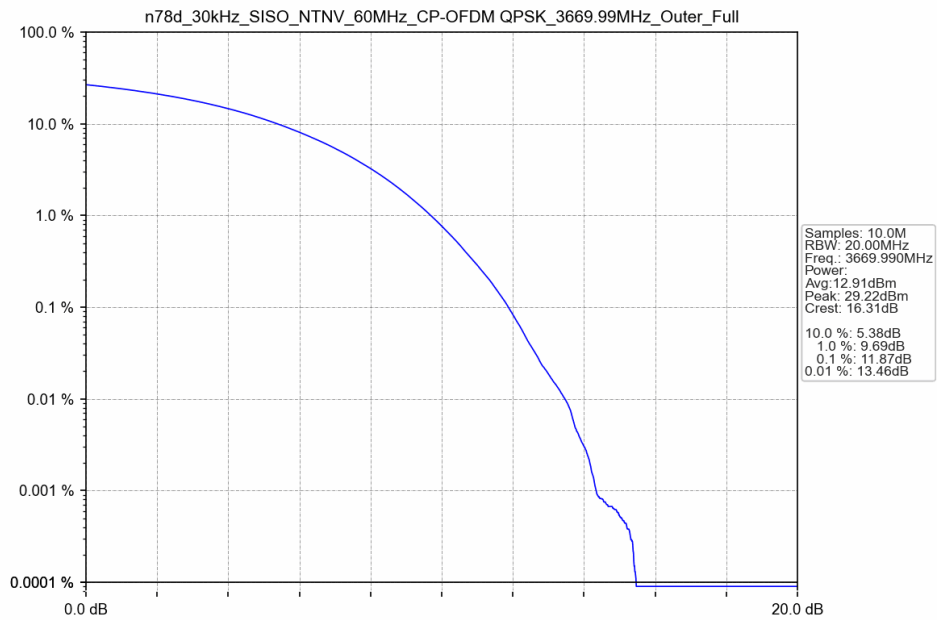
n78d 30kHz SISO NTN 60MHz CP-OFDM QPSK 3580.02MHz Outer Full



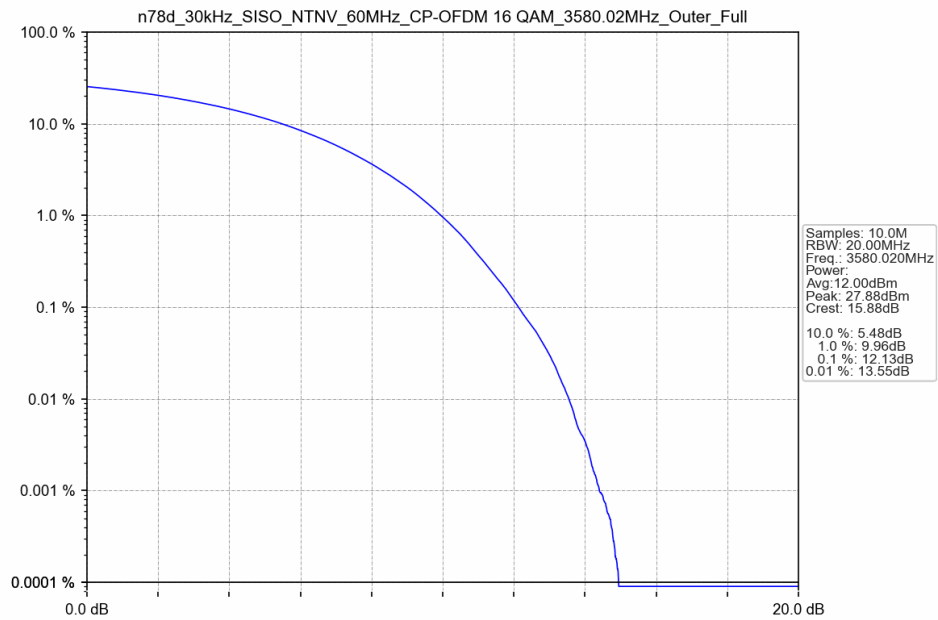
n78d 30kHz SISO NTN 60MHz CP-OFDM QPSK 3624.99MHz Outer Full



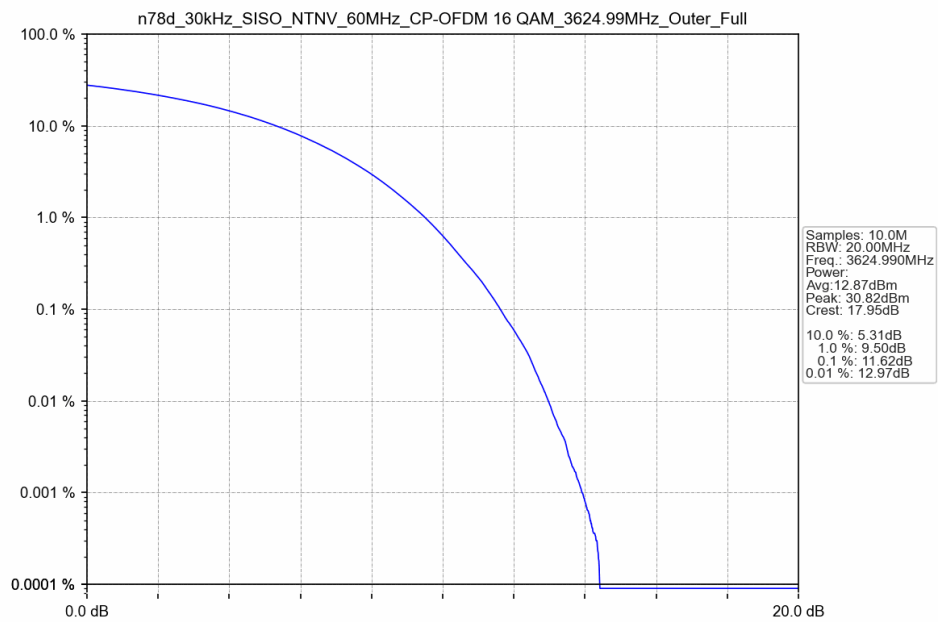
n78d 30kHz SISO NTN 60MHz CP-OFDM QPSK 3669.99MHz Outer Full



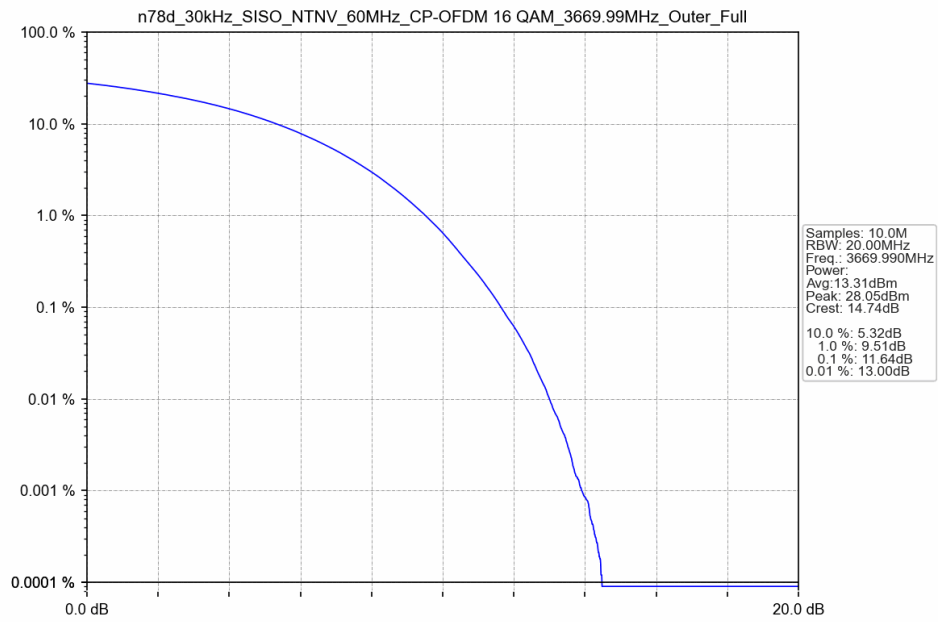
n78d 30kHz SISO NTN 60MHz CP-OFDM 16 QAM 3580.02MHz Outer Full



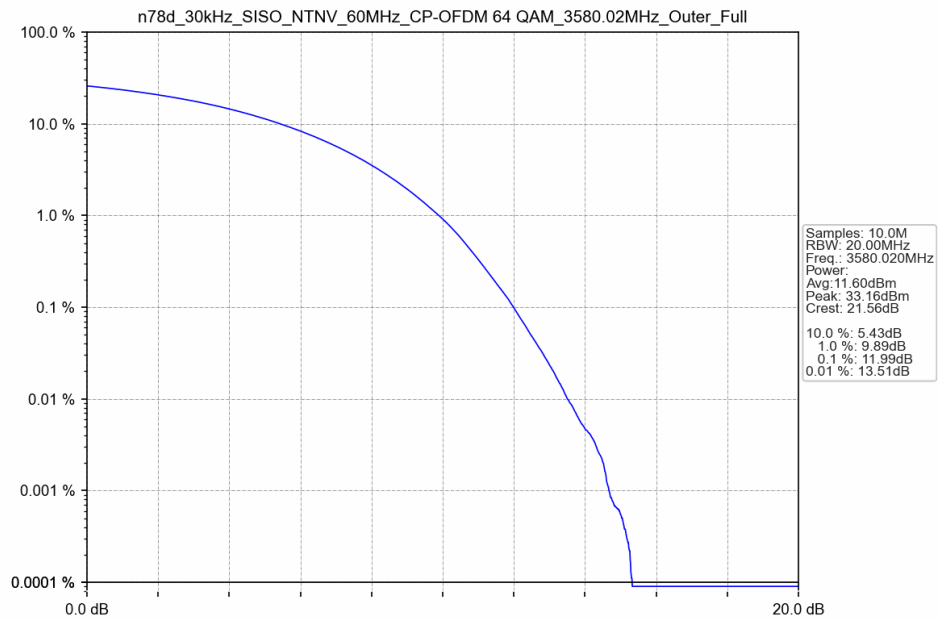
n78d 30kHz SISO NTN 60MHz CP-OFDM 16 QAM 3624.99MHz Outer Full



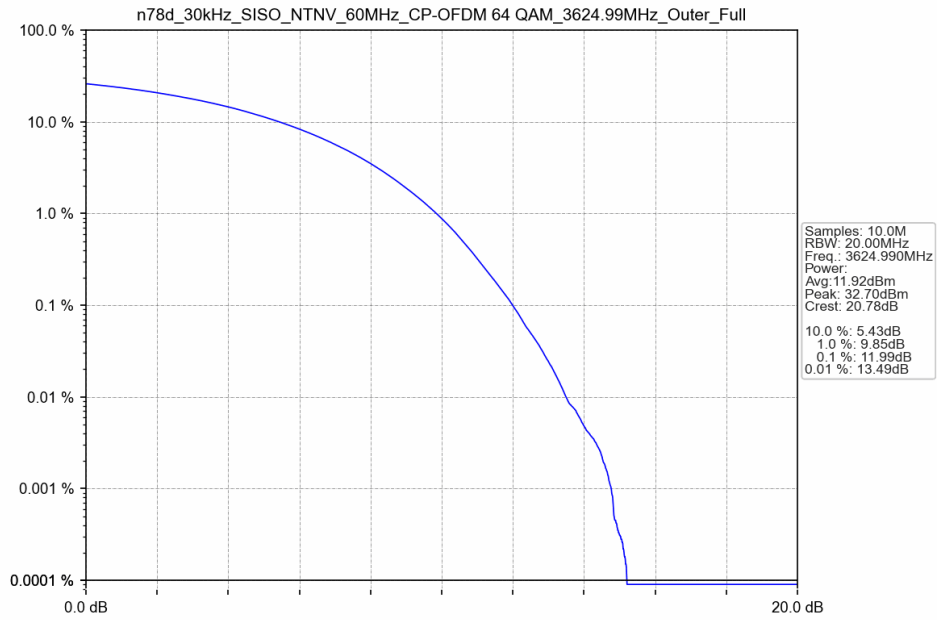
n78d 30kHz SISO NTN 60MHz CP-OFDM 16 QAM 3669.99MHz Outer Full



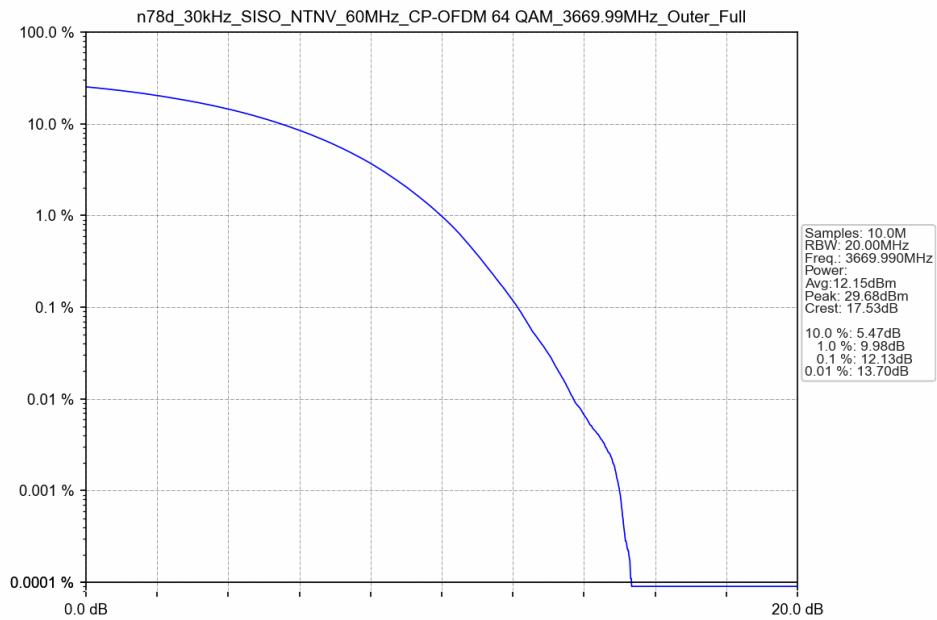
n78d 30kHz SISO NTN 60MHz CP-OFDM 64 QAM 3580.02MHz Outer Full



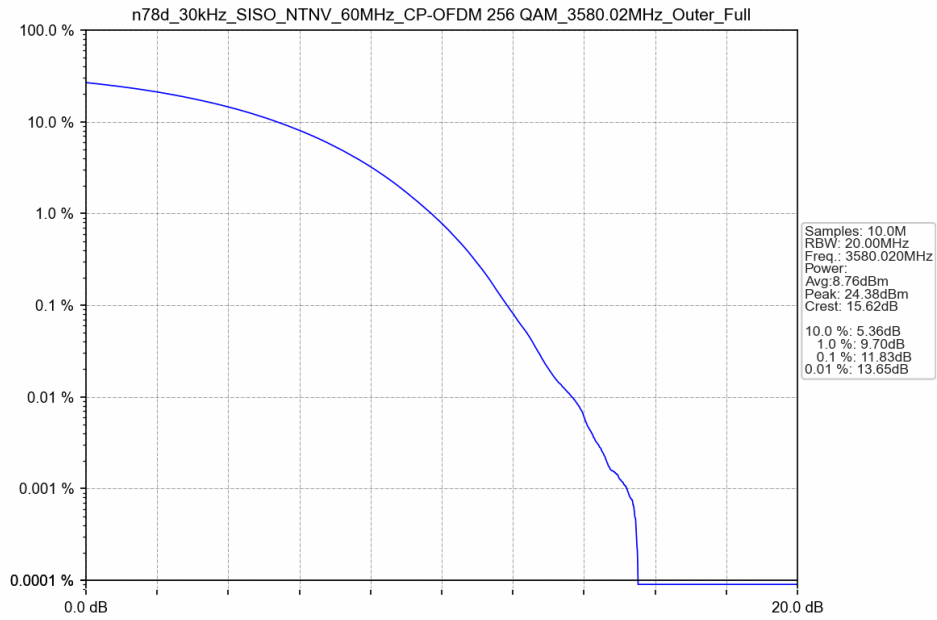
n78d 30kHz SISO NTN 60MHz CP-OFDM 64 QAM 3624.99MHz Outer Full



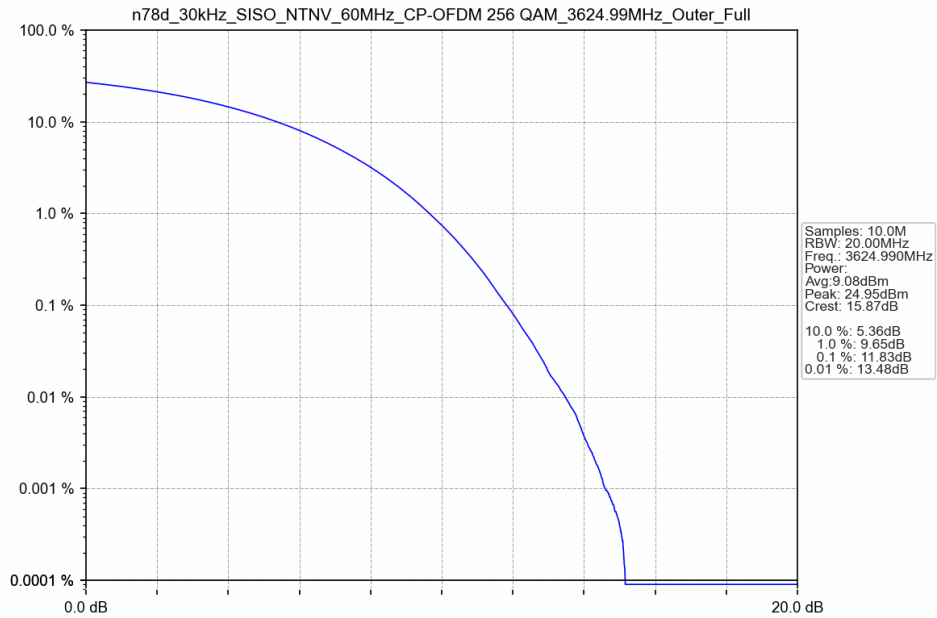
n78d 30kHz SISO NTN 60MHz CP-OFDM 64 QAM 3669.99MHz Outer Full



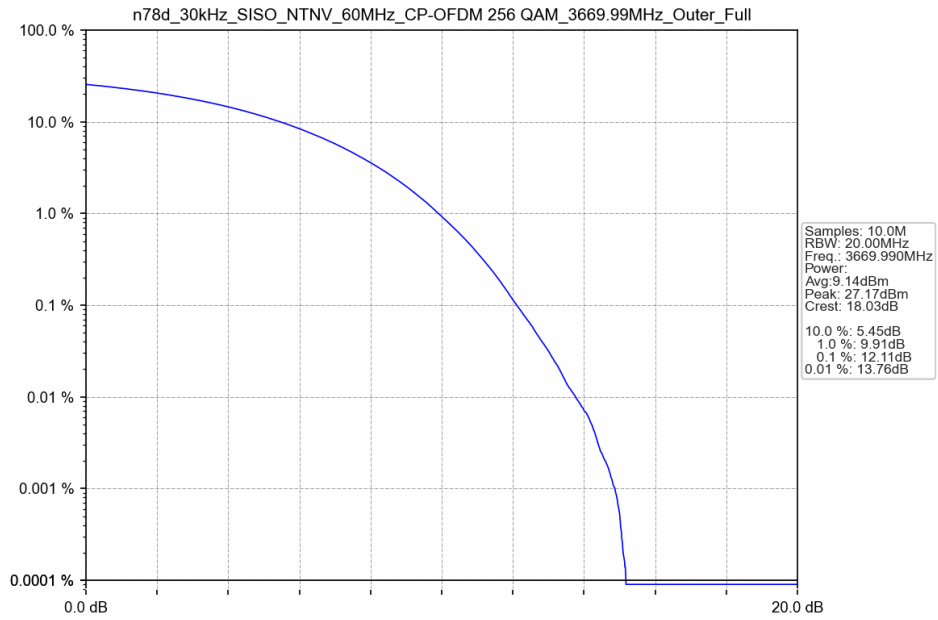
n78d 30kHz SISO NTN 60MHz CP-OFDM 256 QAM 3580.02MHz Outer Full



n78d 30kHz SISO NTN 60MHz CP-OFDM 256 QAM 3624.99MHz Outer Full



n78d 30kHz SISO NTN 60MHz CP-OFDM 256 QAM 3669.99MHz Outer Full

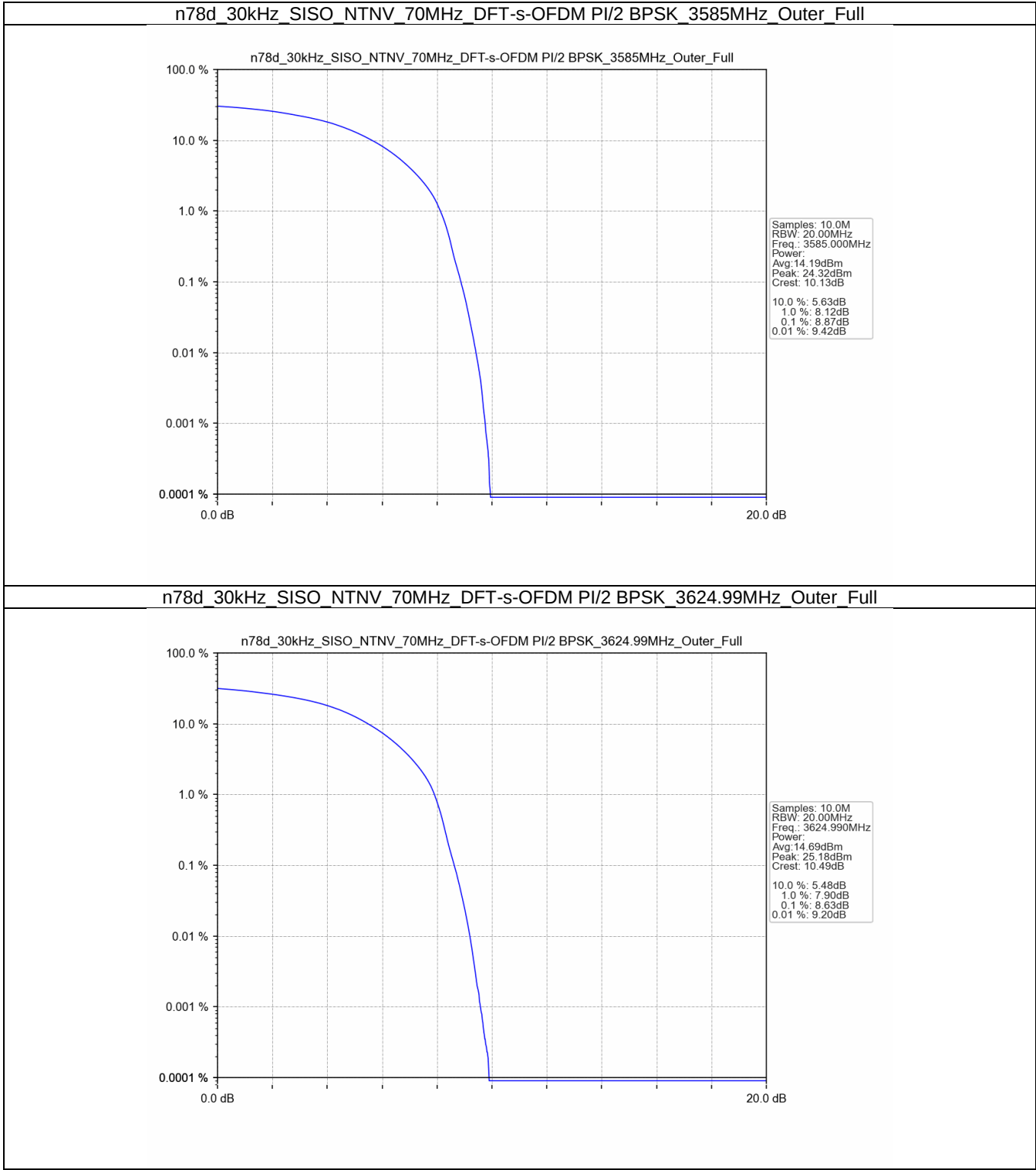


4.6 30k_SISO_70MHz_NTNV

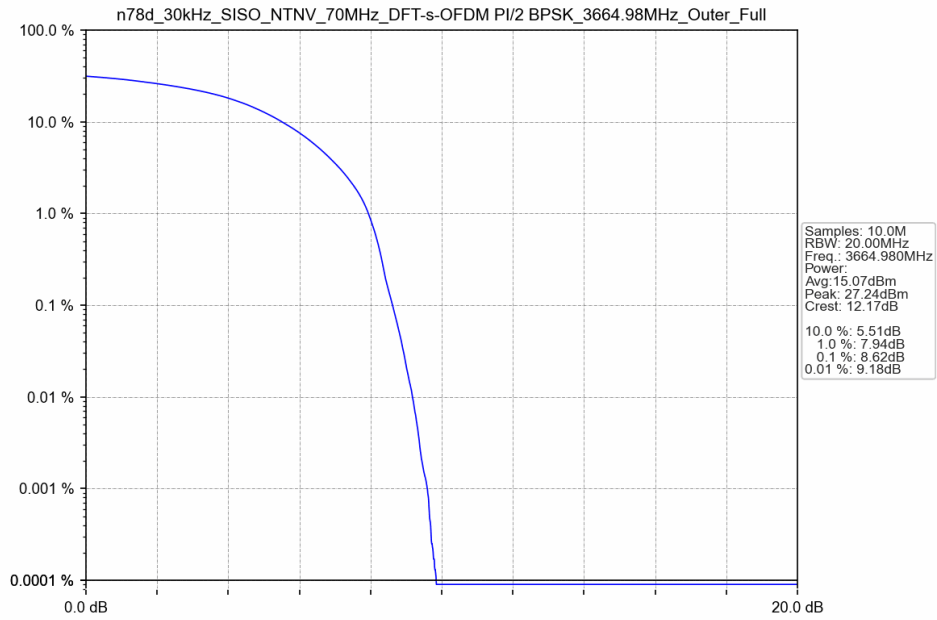
4.6.1 Test Result

5G NR n78d SCS=30kHz SISO 70MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3585	Outer_Full	8.87	/	/	<=13	Pass
	3624.99	Outer_Full	8.63	/	/	<=13	Pass
	3664.98	Outer_Full	8.62	/	/	<=13	Pass
DFT-s-OFDM QPSK	3585	Outer_Full	10.30	/	/	<=13	Pass
	3624.99	Outer_Full	10.19	/	/	<=13	Pass
	3664.98	Outer_Full	9.98	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3585	Outer_Full	10.92	/	/	<=13	Pass
	3624.99	Outer_Full	11.00	/	/	<=13	Pass
	3664.98	Outer_Full	10.79	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3585	Outer_Full	10.68	/	/	<=13	Pass
	3624.99	Outer_Full	10.85	/	/	<=13	Pass
	3664.98	Outer_Full	10.87	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3585	Outer_Full	11.04	/	/	<=13	Pass
	3624.99	Outer_Full	10.82	/	/	<=13	Pass
	3664.98	Outer_Full	10.45	/	/	<=13	Pass
CP-OFDM QPSK	3585	Outer_Full	11.76	/	/	<=13	Pass
	3624.99	Outer_Full	12.10	/	/	<=13	Pass
	3664.98	Outer_Full	12.05	/	/	<=13	Pass
CP-OFDM 16 QAM	3585	Outer_Full	11.77	/	/	<=13	Pass
	3624.99	Outer_Full	11.95	/	/	<=13	Pass
	3664.98	Outer_Full	11.66	/	/	<=13	Pass
CP-OFDM 64 QAM	3585	Outer_Full	11.75	/	/	<=13	Pass
	3624.99	Outer_Full	11.74	/	/	<=13	Pass
	3664.98	Outer_Full	11.71	/	/	<=13	Pass
CP-OFDM 256 QAM	3585	Outer_Full	11.76	/	/	<=13	Pass
	3624.99	Outer_Full	11.66	/	/	<=13	Pass
	3664.98	Outer_Full	11.83	/	/	<=13	Pass

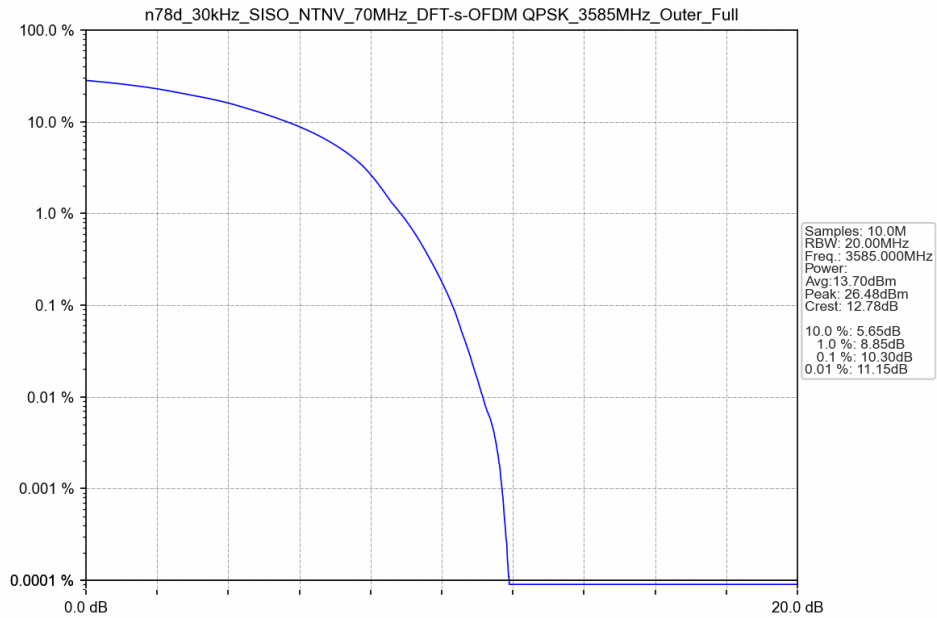
4.6.2 Test Graph



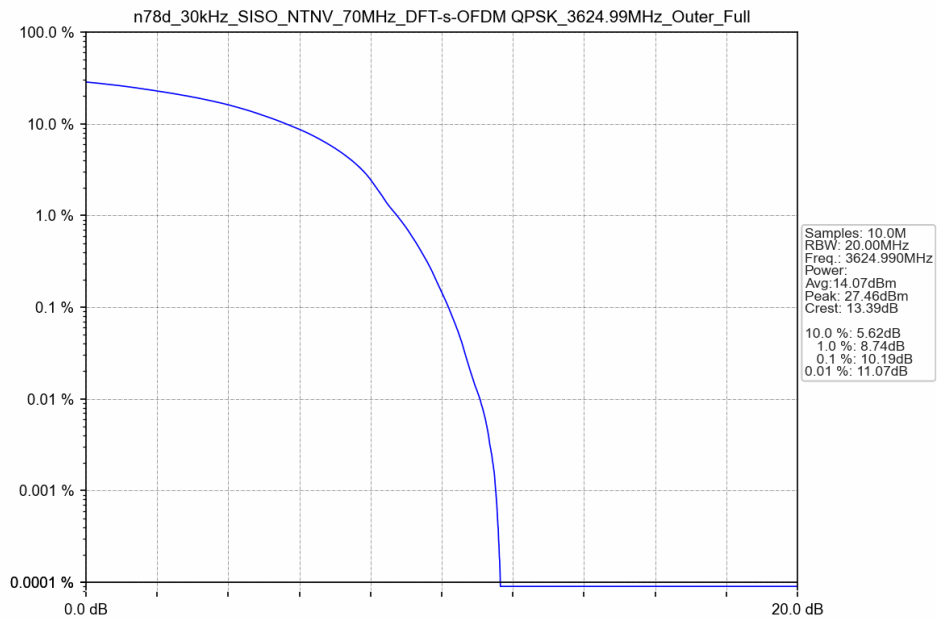
n78d 30kHz SISO NTN 70MHz DFT-s-OFDM PI/2 BPSK 3664.98MHz Outer Full



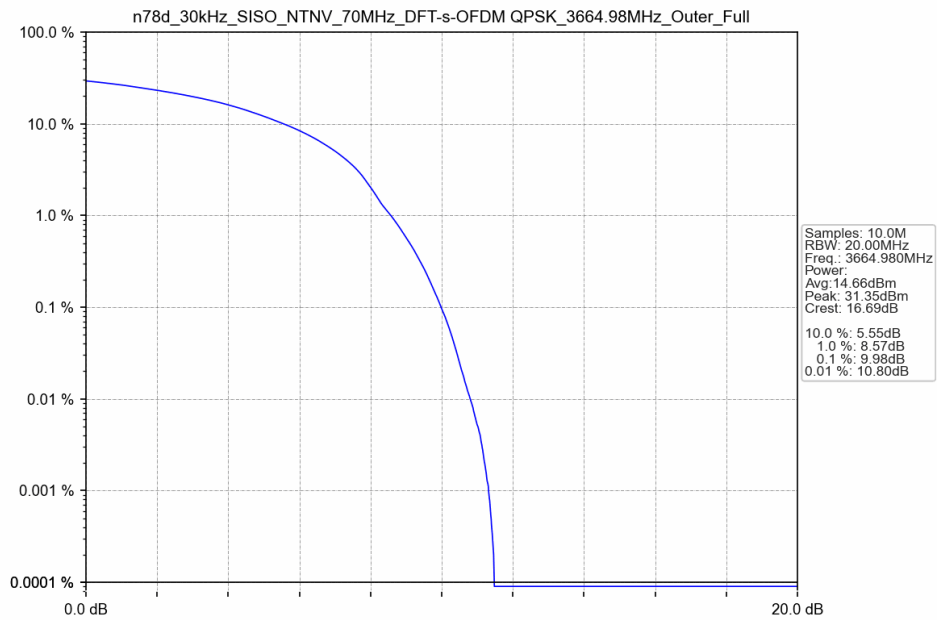
n78d 30kHz SISO NTN 70MHz DFT-s-OFDM QPSK 3585MHz Outer Full



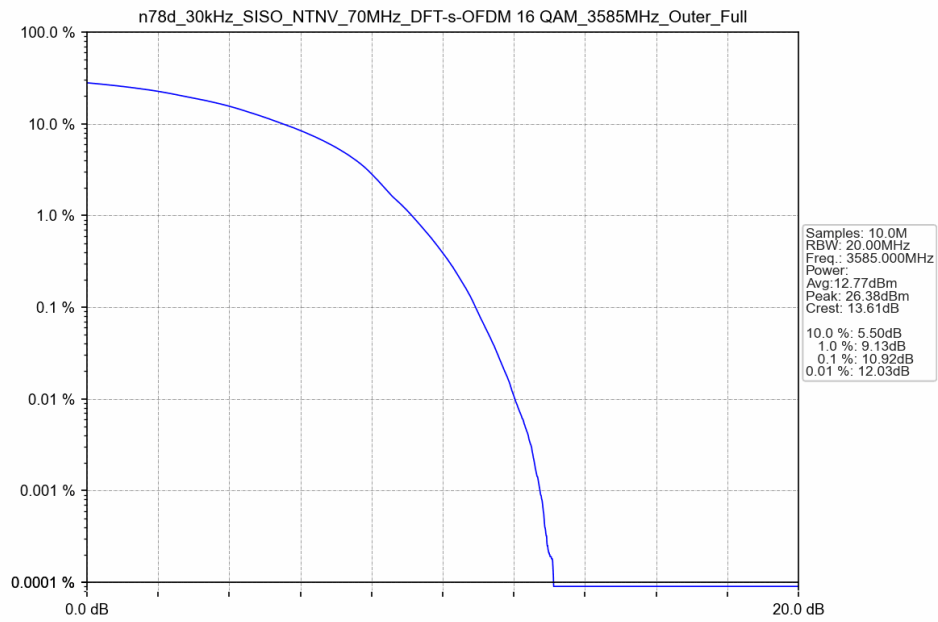
n78d 30kHz SISO NTN 70MHz DFT-s-OFDM QPSK 3624.99MHz Outer Full



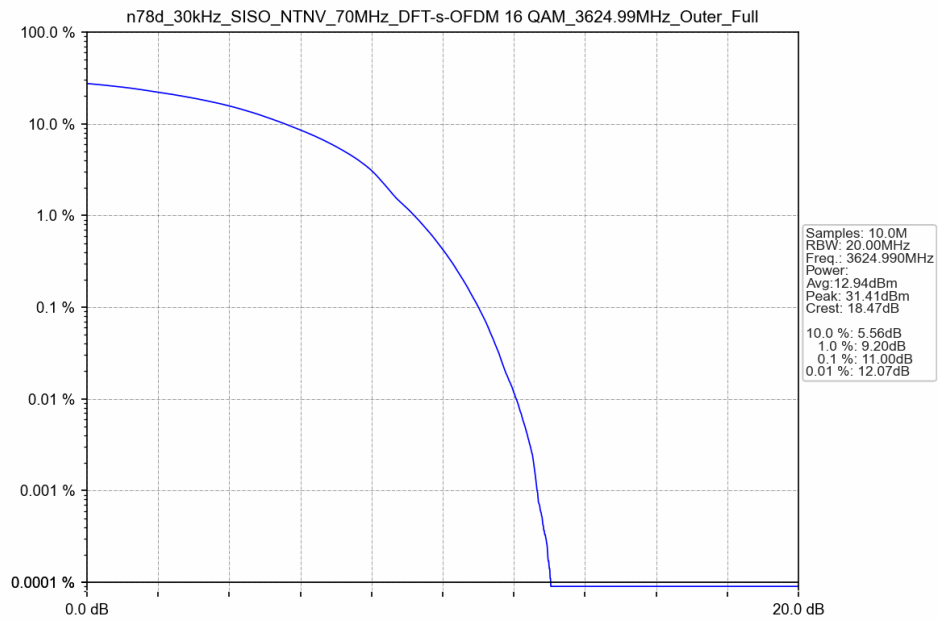
n78d 30kHz SISO NTN 70MHz DFT-s-OFDM QPSK 3664.98MHz Outer Full



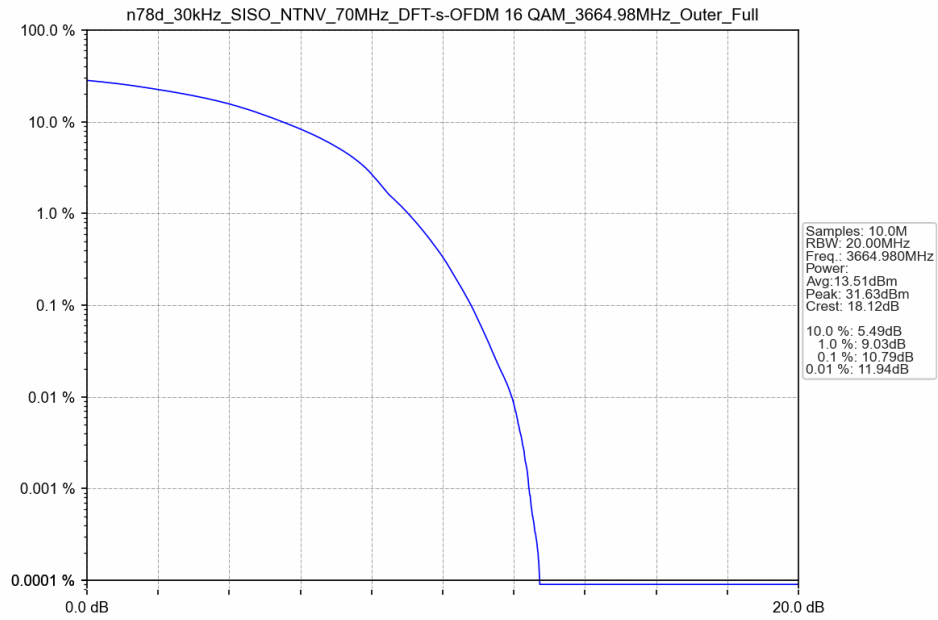
n78d 30kHz SISO NTN 70MHz DFT-s-OFDM 16 QAM 3585MHz Outer Full



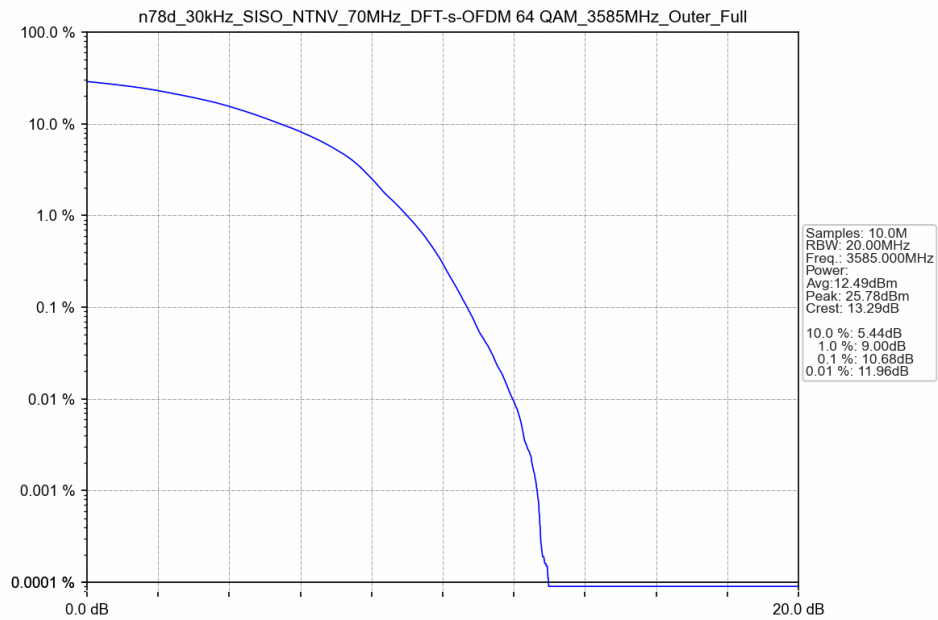
n78d 30kHz SISO NTN 70MHz DFT-s-OFDM 16 QAM 3624.99MHz Outer Full



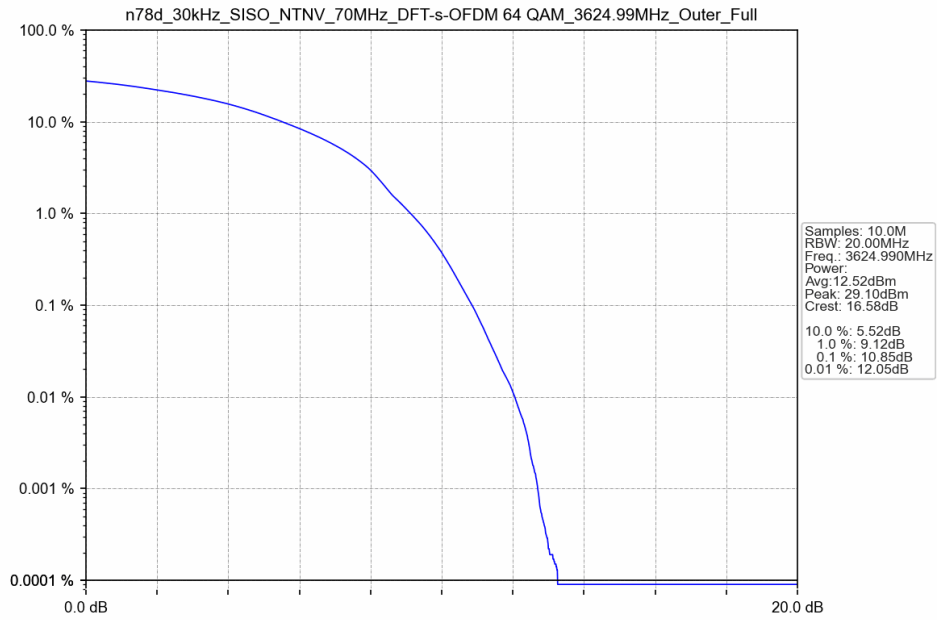
n78d 30kHz SISO NTN 70MHz DFT-s-OFDM 16 QAM 3664.98MHz Outer Full



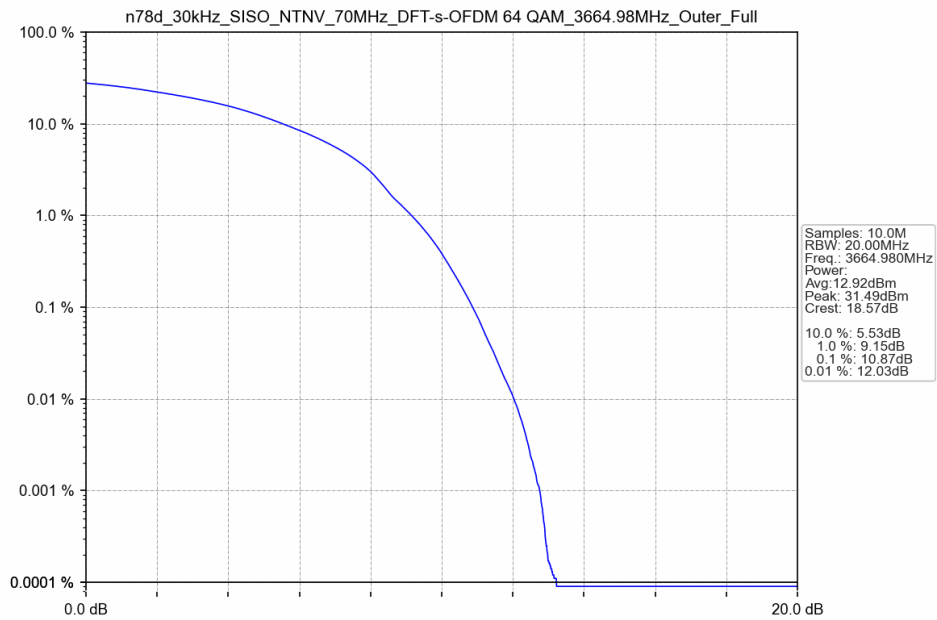
n78d 30kHz SISO NTN 70MHz DFT-s-OFDM 64 QAM 3585MHz Outer Full



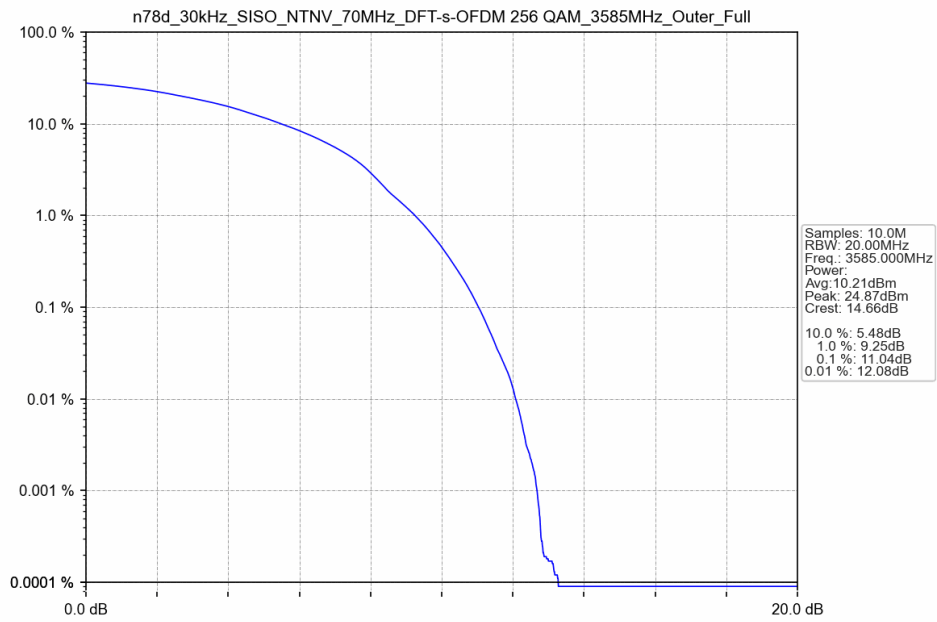
n78d 30kHz SISO NTN 70MHz DFT-s-OFDM 64 QAM 3624.99MHz Outer Full



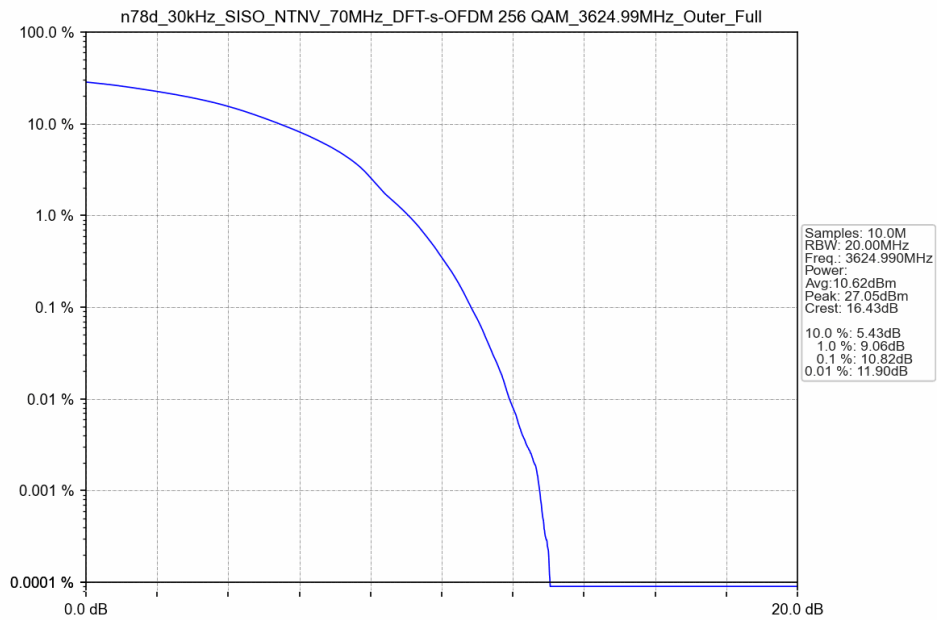
n78d 30kHz SISO NTN 70MHz DFT-s-OFDM 64 QAM 3664.98MHz Outer Full



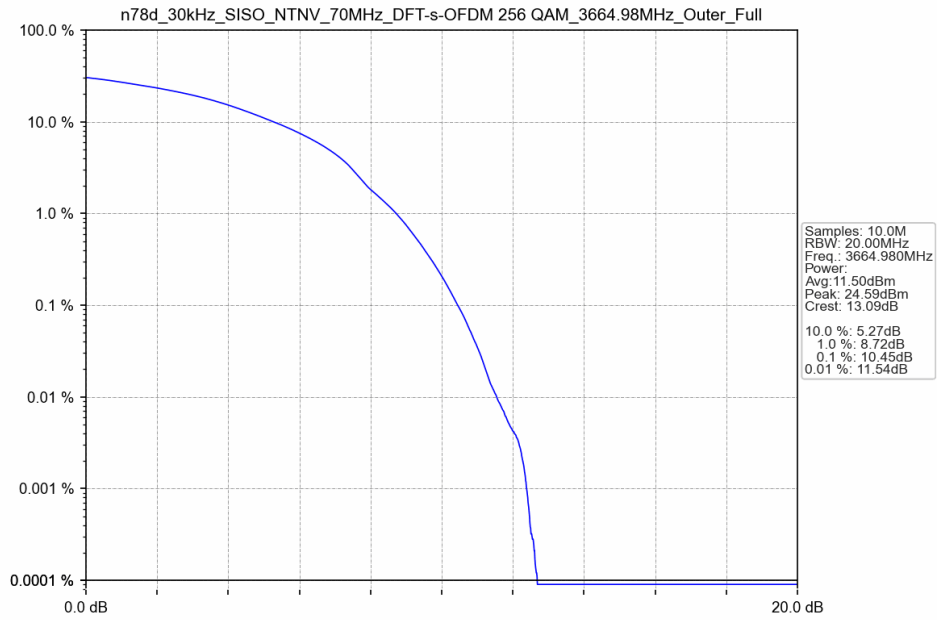
n78d 30kHz SISO NTN 70MHz DFT-s-OFDM 256 QAM 3585MHz Outer Full



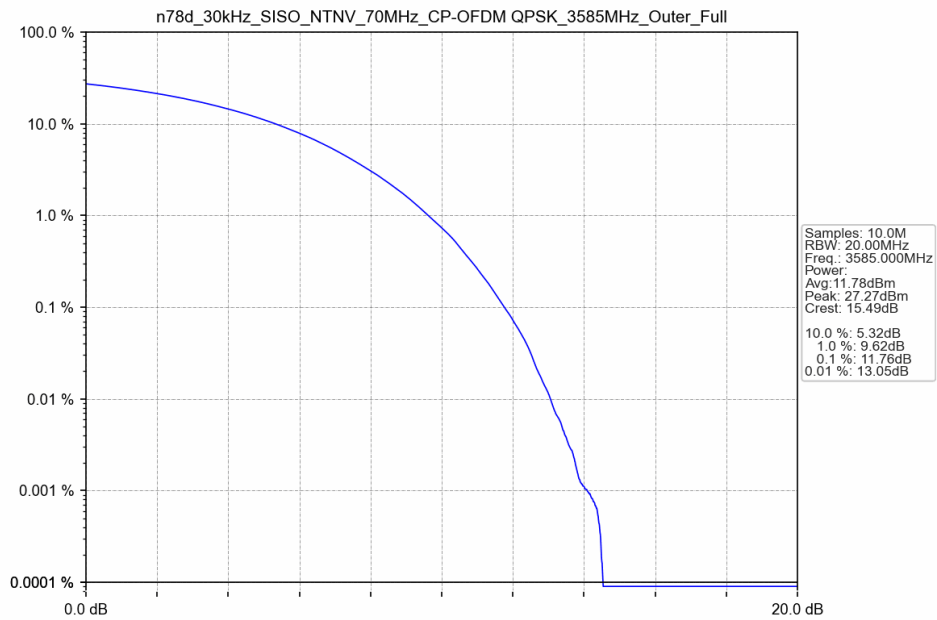
n78d 30kHz SISO NTN 70MHz DFT-s-OFDM 256 QAM 3624.99MHz Outer Full



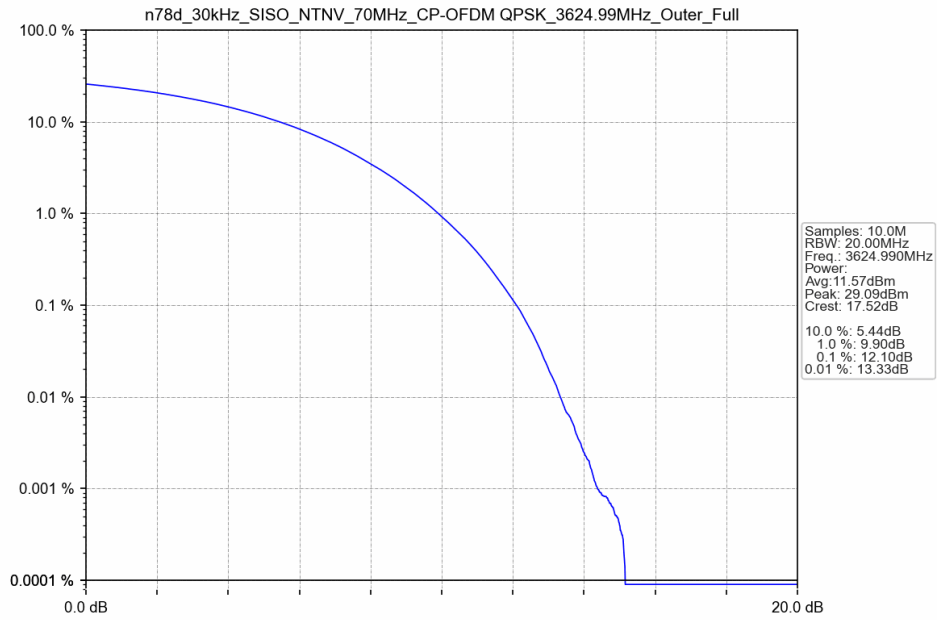
n78d 30kHz SISO NTN 70MHz DFT-s-OFDM 256 QAM 3664.98MHz Outer Full



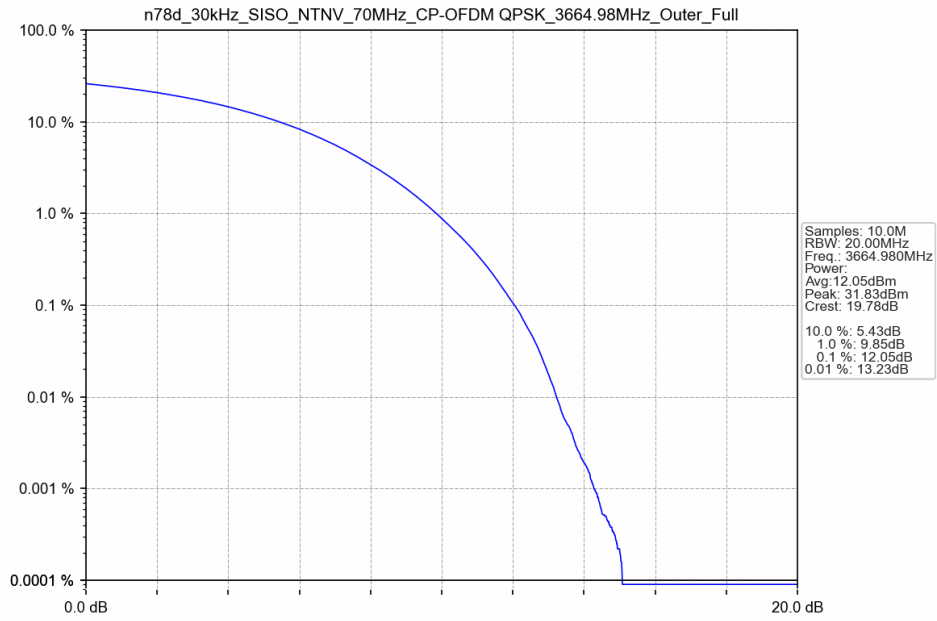
n78d 30kHz SISO NTN 70MHz CP-OFDM QPSK 3585MHz Outer Full



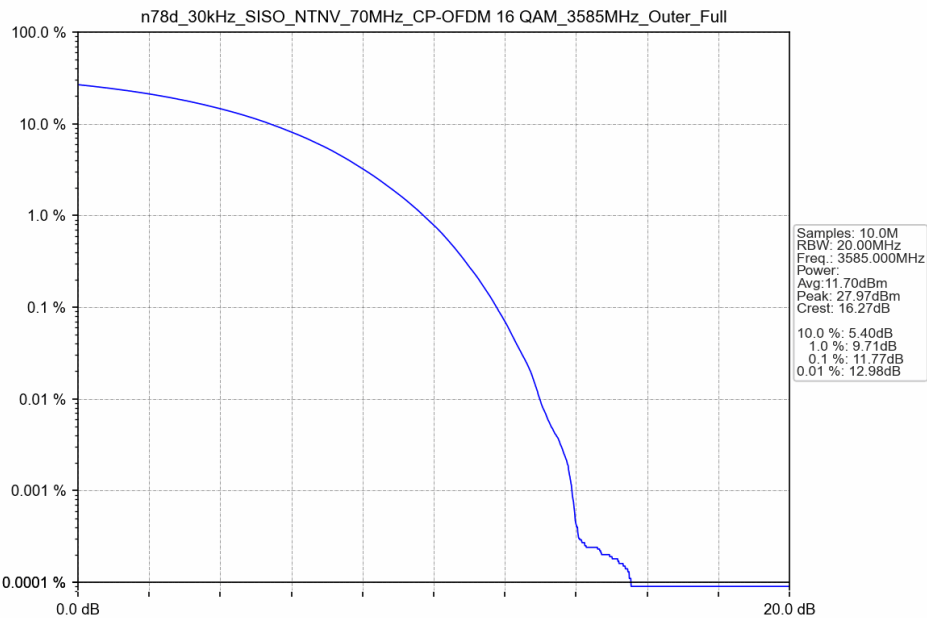
n78d 30kHz SISO NTN 70MHz CP-OFDM QPSK 3624.99MHz Outer Full



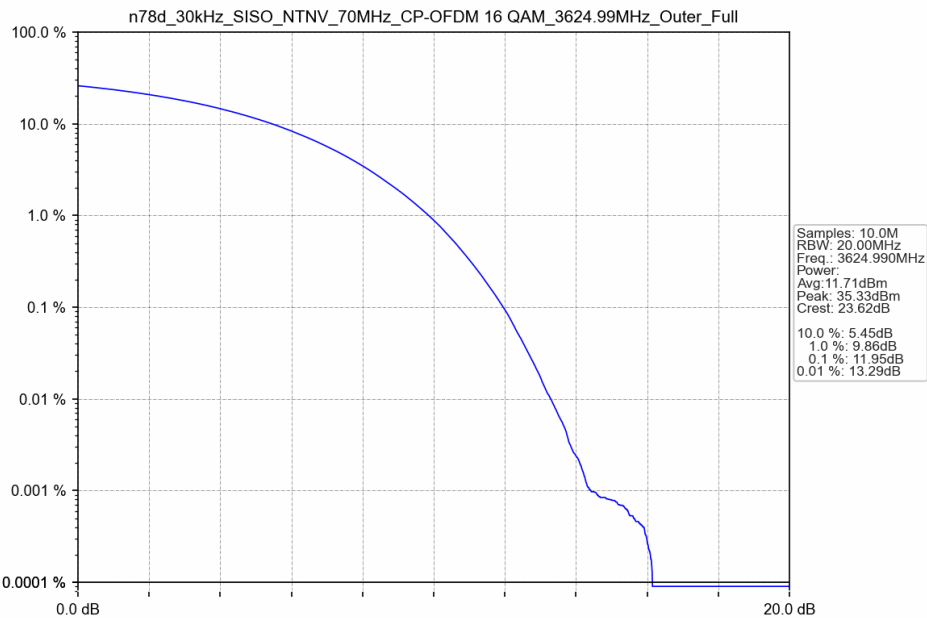
n78d 30kHz SISO NTN 70MHz CP-OFDM QPSK 3664.98MHz Outer Full



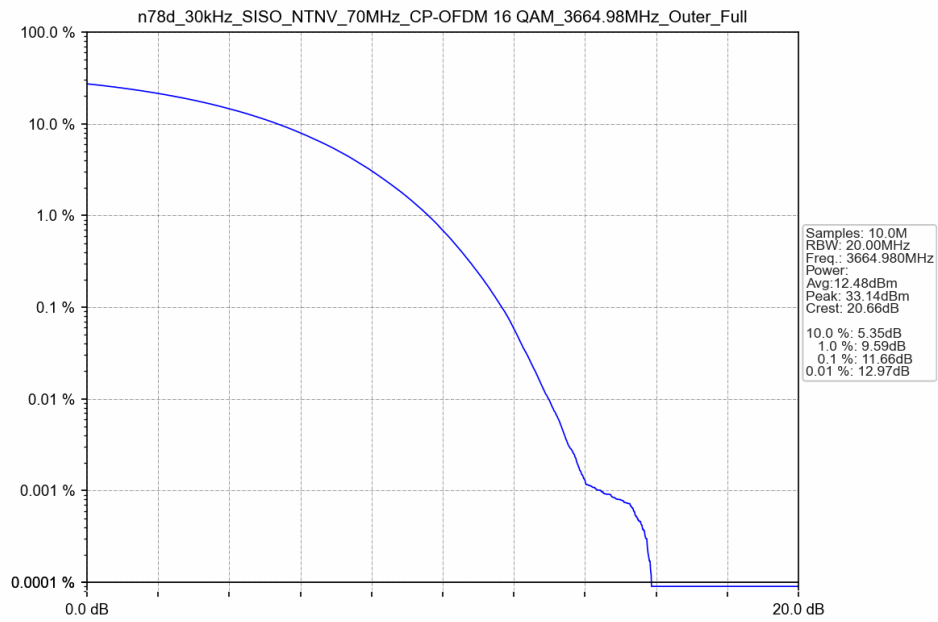
n78d 30kHz SISO NTN 70MHz CP-OFDM 16 QAM 3585MHz Outer Full



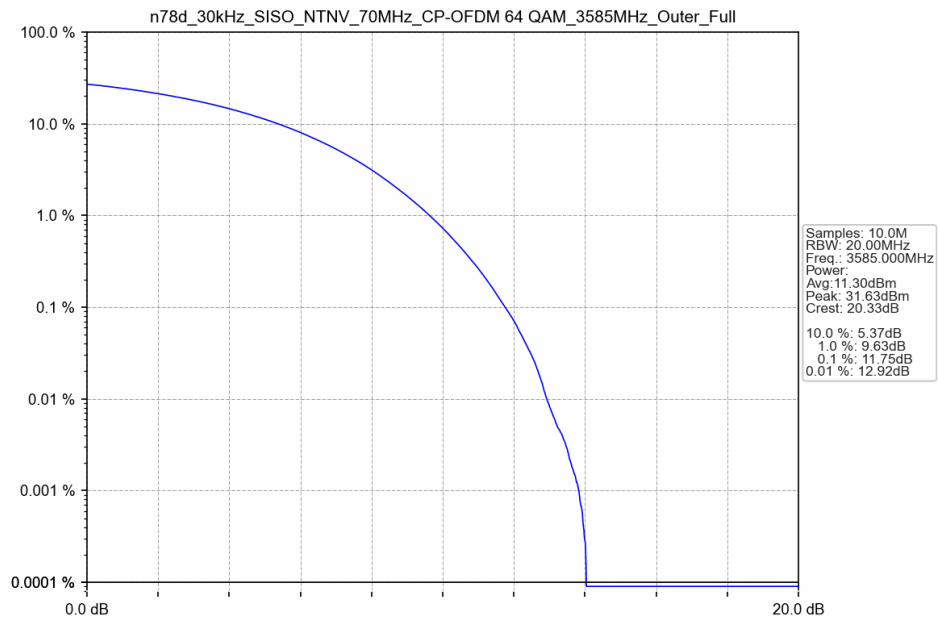
n78d 30kHz SISO NTN 70MHz CP-OFDM 16 QAM 3624.99MHz Outer Full



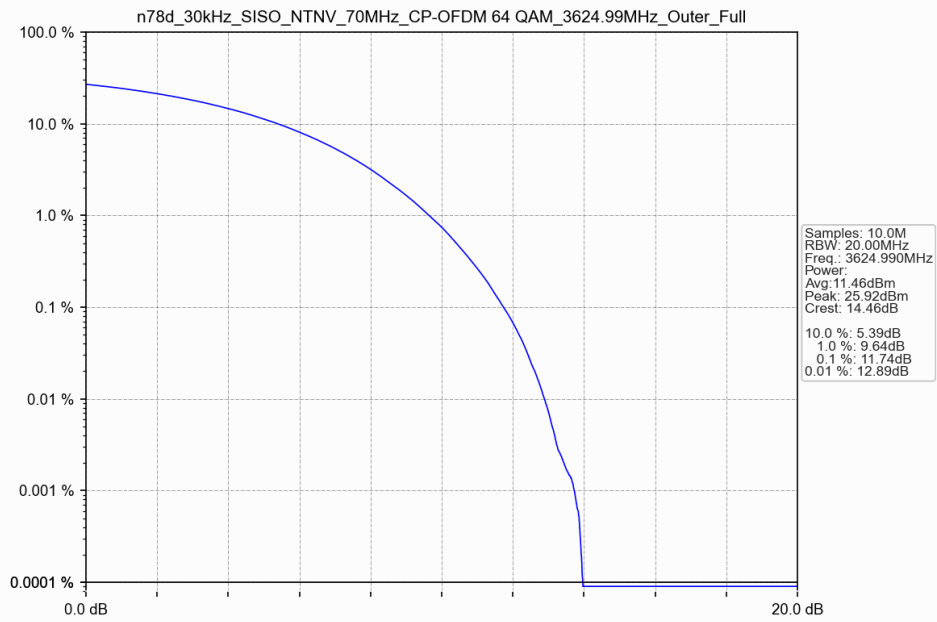
n78d 30kHz SISO NTN 70MHz CP-OFDM 16 QAM 3664.98MHz Outer Full



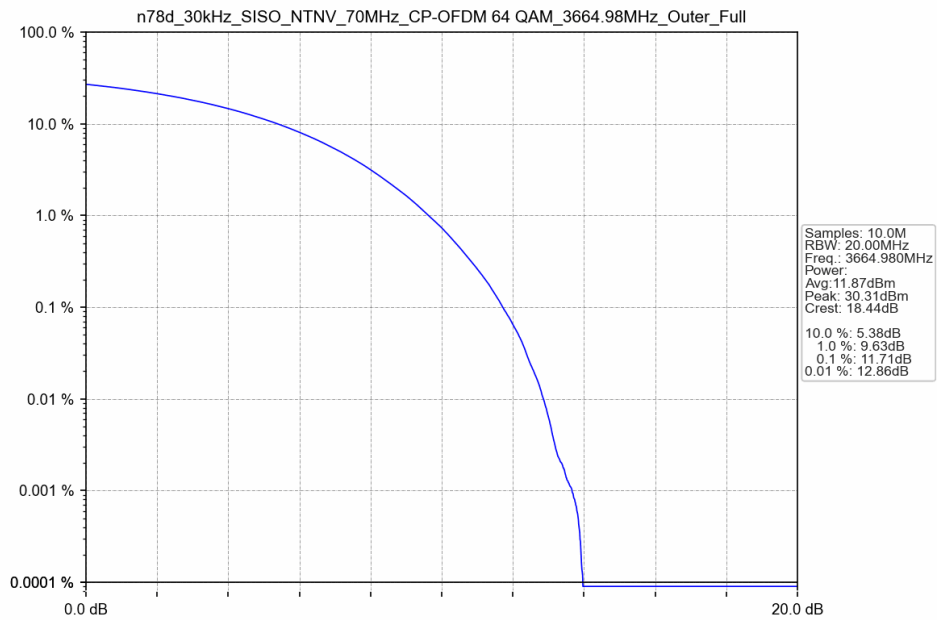
n78d 30kHz SISO NTN 70MHz CP-OFDM 64 QAM 3585MHz Outer Full



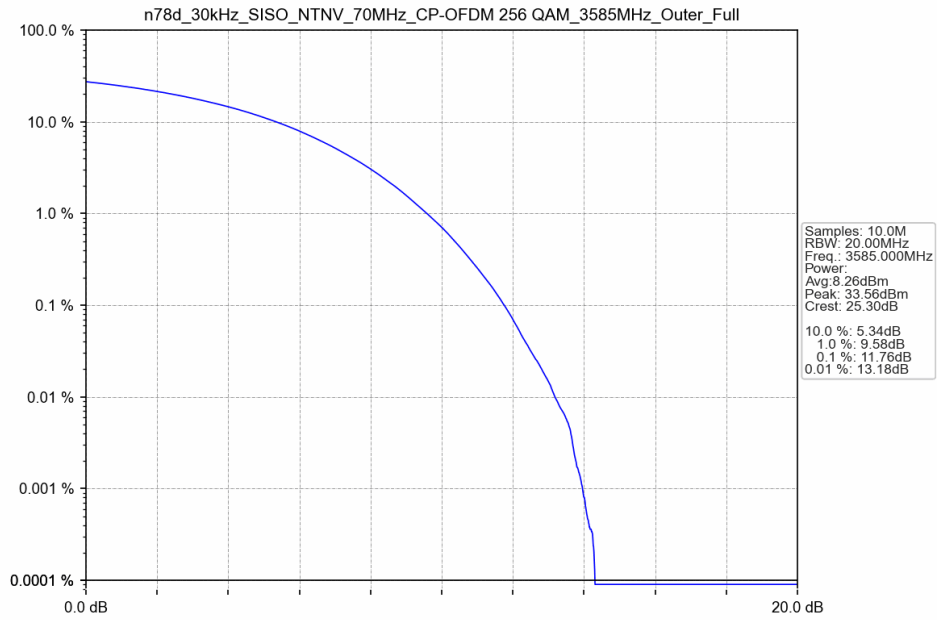
n78d 30kHz SISO NTN 70MHz CP-OFDM 64 QAM 3624.99MHz Outer Full



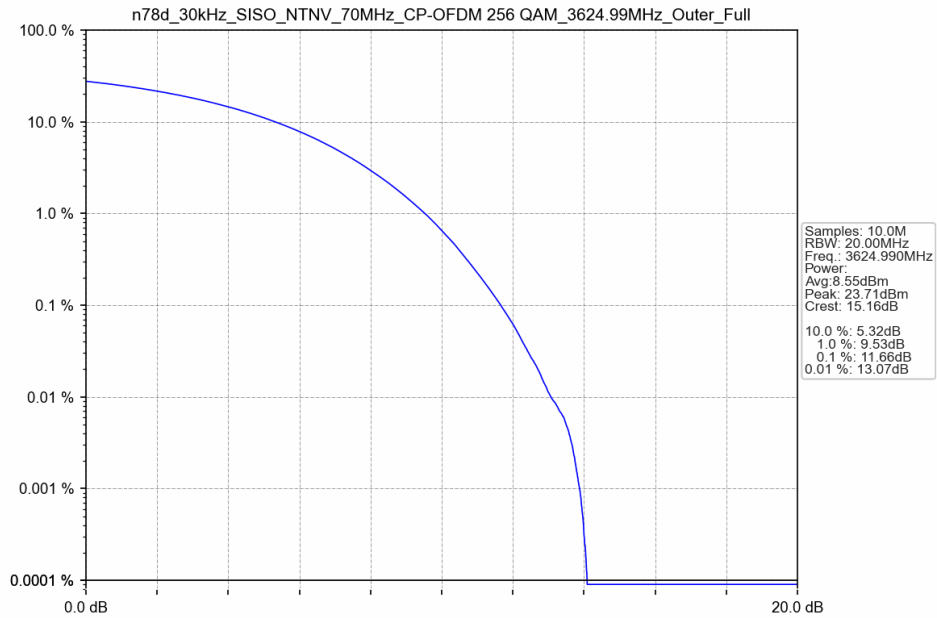
n78d 30kHz SISO NTN 70MHz CP-OFDM 64 QAM 3664.98MHz Outer Full



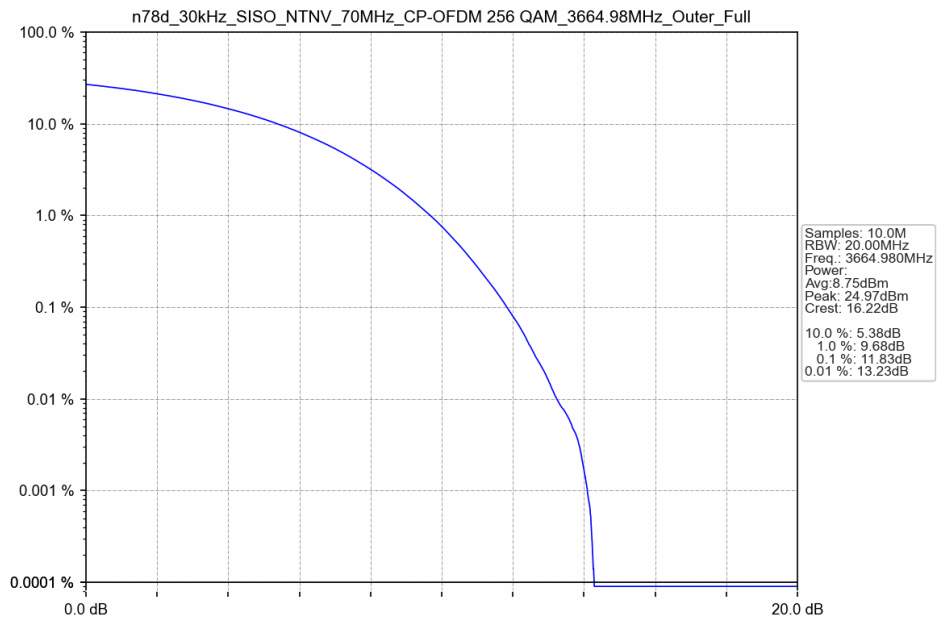
n78d 30kHz SISO NTN 70MHz CP-OFDM 256 QAM 3585MHz Outer Full



n78d 30kHz SISO NTN 70MHz CP-OFDM 256 QAM 3624.99MHz Outer Full



n78d 30kHz SISO NTN 70MHz CP-OFDM 256 QAM 3664.98MHz Outer Full

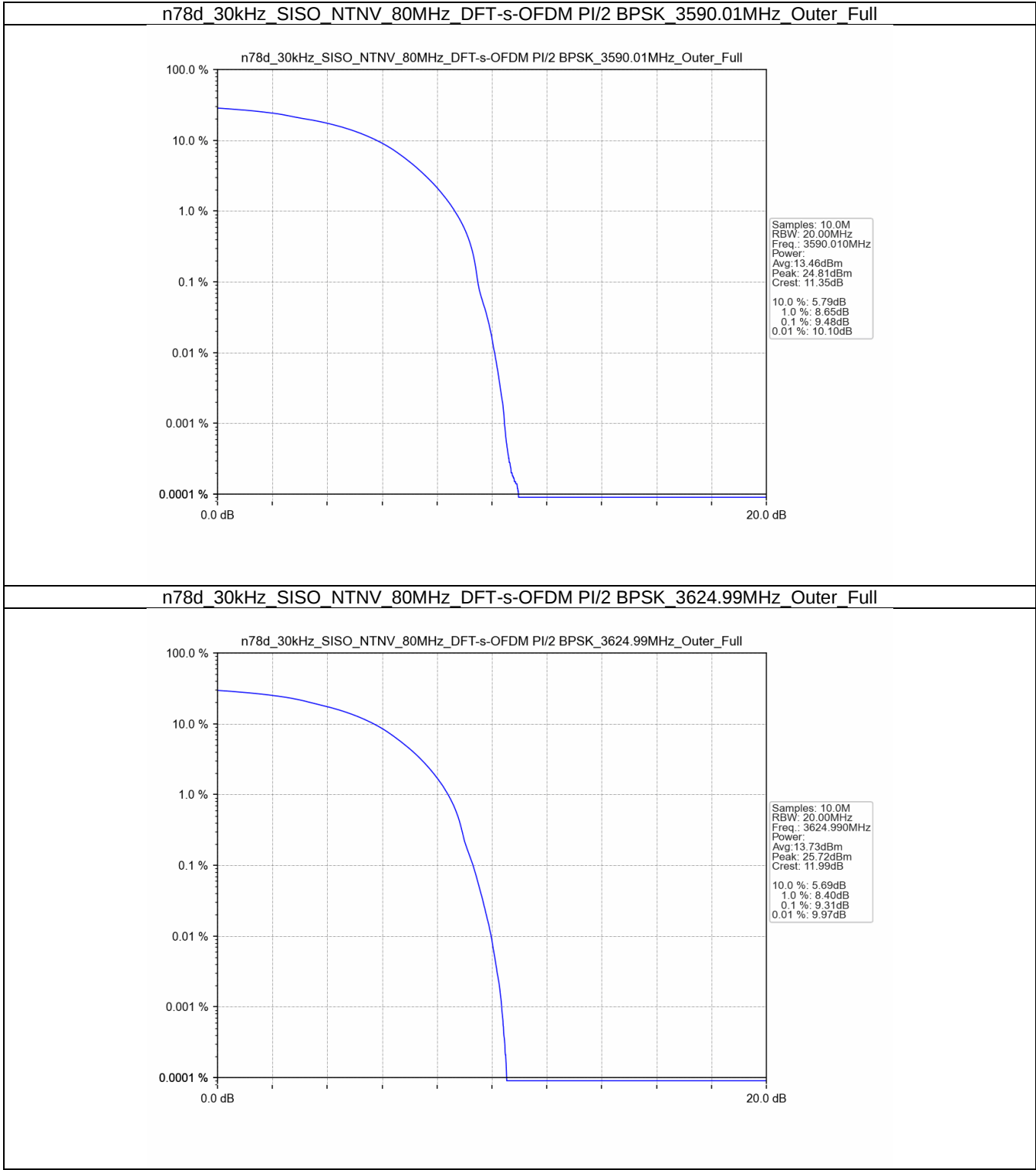


4.7 30k_SISO_80MHz_NTNV

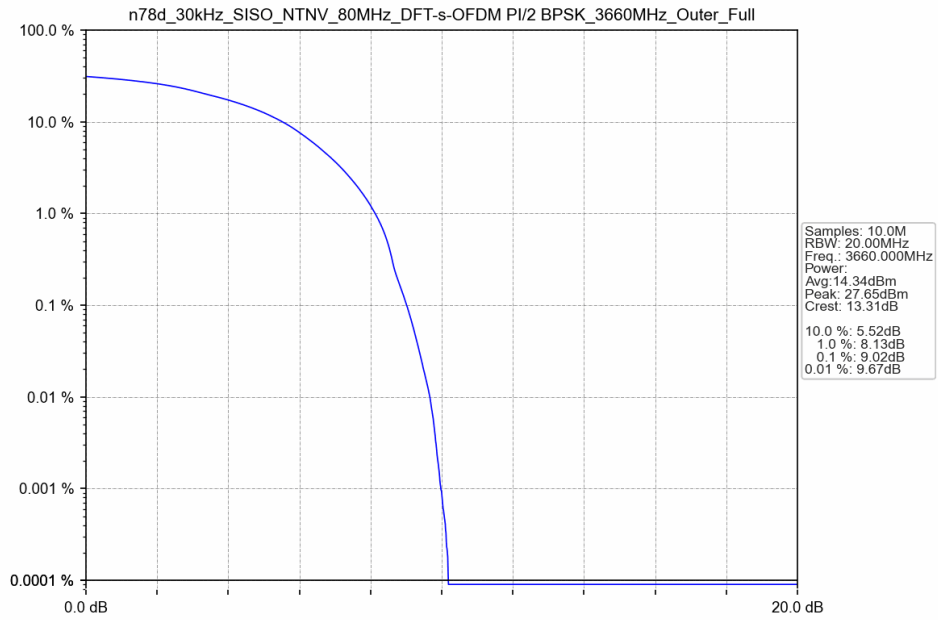
4.7.1 Test Result

5G NR n78d SCS=30kHz SISO 80MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3590.01	Outer_Full	9.48	/	/	<=13	Pass
	3624.99	Outer_Full	9.31	/	/	<=13	Pass
	3660	Outer_Full	9.02	/	/	<=13	Pass
DFT-s-OFDM QPSK	3590.01	Outer_Full	10.52	/	/	<=13	Pass
	3624.99	Outer_Full	10.50	/	/	<=13	Pass
	3660	Outer_Full	10.46	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3590.01	Outer_Full	10.88	/	/	<=13	Pass
	3624.99	Outer_Full	10.87	/	/	<=13	Pass
	3660	Outer_Full	11.08	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3590.01	Outer_Full	11.08	/	/	<=13	Pass
	3624.99	Outer_Full	10.91	/	/	<=13	Pass
	3660	Outer_Full	11.07	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3590.01	Outer_Full	11.20	/	/	<=13	Pass
	3624.99	Outer_Full	11.07	/	/	<=13	Pass
	3660	Outer_Full	10.91	/	/	<=13	Pass
CP-OFDM QPSK	3590.01	Outer_Full	12.00	/	/	<=13	Pass
	3624.99	Outer_Full	11.51	/	/	<=13	Pass
	3660	Outer_Full	11.53	/	/	<=13	Pass
CP-OFDM 16 QAM	3590.01	Outer_Full	12.01	/	/	<=13	Pass
	3624.99	Outer_Full	11.98	/	/	<=13	Pass
	3660	Outer_Full	11.50	/	/	<=13	Pass
CP-OFDM 64 QAM	3590.01	Outer_Full	11.53	/	/	<=13	Pass
	3624.99	Outer_Full	11.51	/	/	<=13	Pass
	3660	Outer_Full	11.43	/	/	<=13	Pass
CP-OFDM 256 QAM	3590.01	Outer_Full	11.85	/	/	<=13	Pass
	3624.99	Outer_Full	11.48	/	/	<=13	Pass
	3660	Outer_Full	11.81	/	/	<=13	Pass

4.7.2 Test Graph



n78d 30kHz SISO NTN 80MHz DFT-s-OFDM PI/2 BPSK 3660MHz Outer Full



n78d 30kHz SISO NTN 80MHz DFT-s-OFDM QPSK 3590.01MHz Outer Full

