

5.3 30k_SISO_30MHz_NTNV

5.3.1 Test Result

5G NR n48 SCS=30kHz SISO 30MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3565.02	Outer_Full	26.95	29.07	/	Pass
	3624.99	Outer_Full	27.22	29.42	/	Pass
	3684.99	Outer_Full	27.11	28.97	/	Pass
DFT-s-OFDM QPSK	3565.02	Outer_Full	26.92	29.01	/	Pass
	3624.99	Outer_Full	27.00	28.73	/	Pass
	3684.99	Outer_Full	27.20	28.88	/	Pass
DFT-s-OFDM 16 QAM	3565.02	Outer_Full	27.20	28.98	/	Pass
	3624.99	Outer_Full	27.20	29.03	/	Pass
	3684.99	Outer_Full	27.18	29.28	/	Pass
DFT-s-OFDM 64 QAM	3565.02	Outer_Full	27.18	29.36	/	Pass
	3624.99	Outer_Full	27.06	28.92	/	Pass
	3684.99	Outer_Full	27.06	29.01	/	Pass
DFT-s-OFDM 256 QAM	3565.02	Outer_Full	26.88	28.82	/	Pass
	3624.99	Outer_Full	27.15	29.21	/	Pass
	3684.99	Outer_Full	27.06	28.81	/	Pass
CP-OFDM QPSK	3565.02	Outer_Full	27.93	30.19	/	Pass
	3624.99	Outer_Full	28.08	29.96	/	Pass
	3684.99	Outer_Full	28.05	30.02	/	Pass
CP-OFDM 16 QAM	3565.02	Outer_Full	28.08	29.88	/	Pass
	3624.99	Outer_Full	28.31	30.55	/	Pass
	3684.99	Outer_Full	28.04	29.92	/	Pass
CP-OFDM 64 QAM	3565.02	Outer_Full	28.07	29.92	/	Pass
	3624.99	Outer_Full	28.00	30.21	/	Pass
	3684.99	Outer_Full	28.11	29.89	/	Pass
CP-OFDM 256 QAM	3565.02	Outer_Full	28.20	29.92	/	Pass
	3624.99	Outer_Full	28.09	30.19	/	Pass
	3684.99	Outer_Full	27.96	29.81	/	Pass

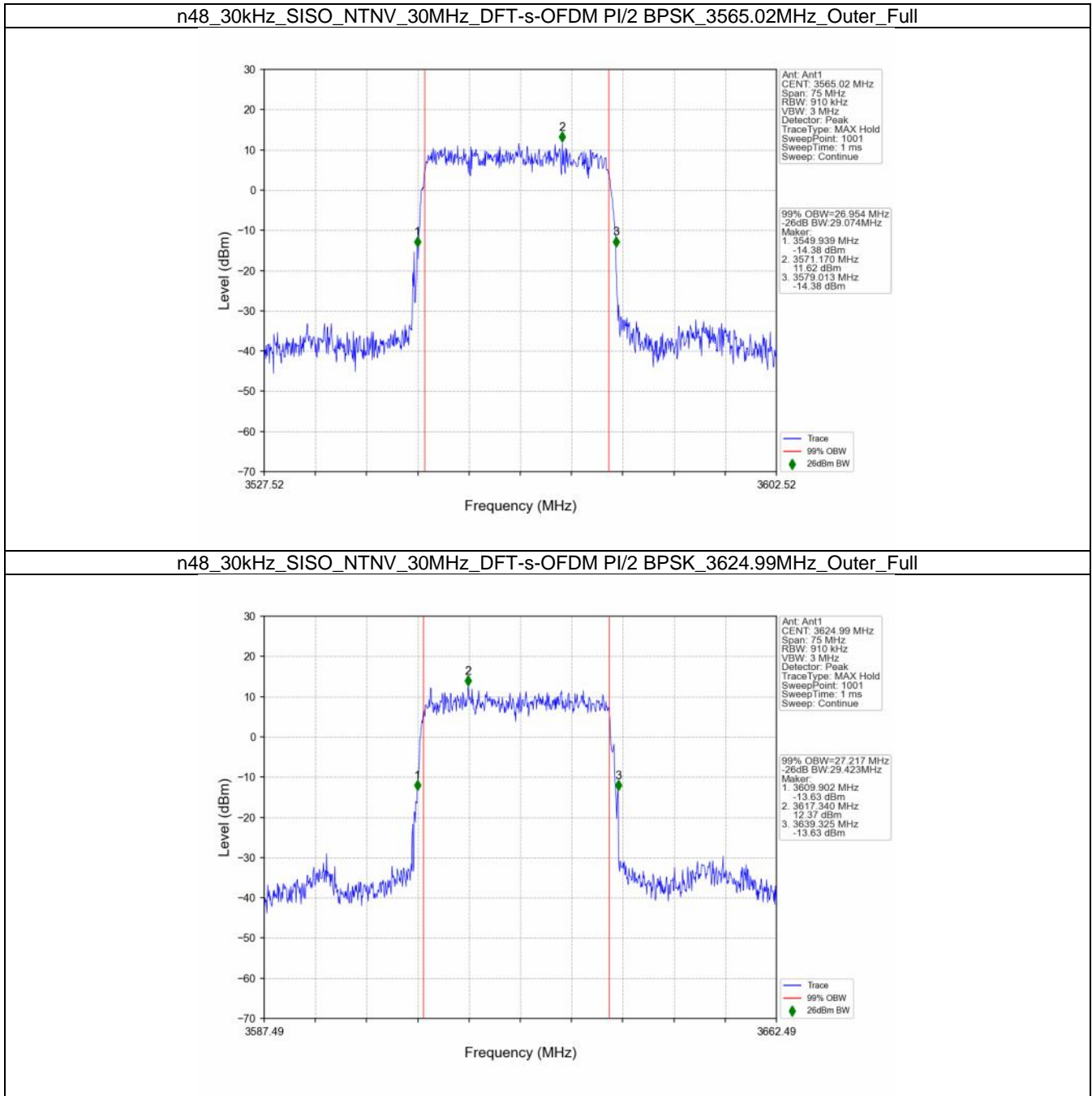


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5.3.2 Test Graph

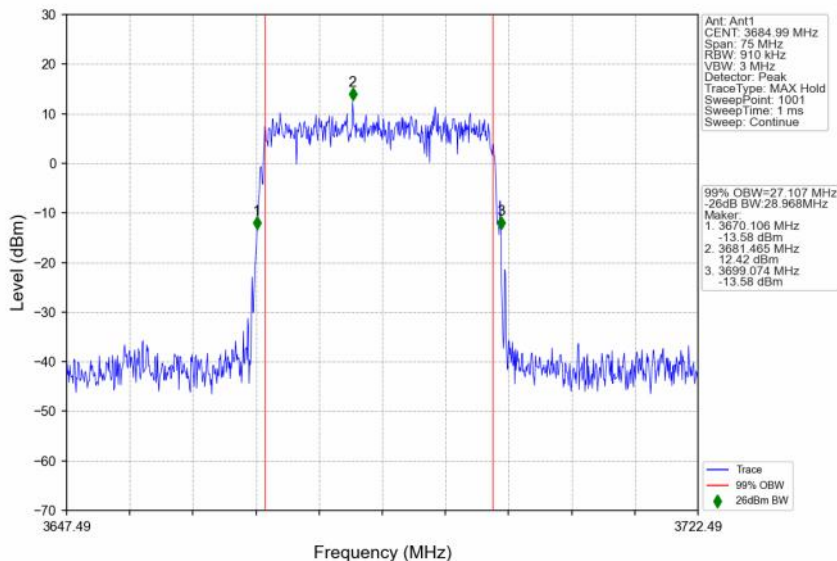


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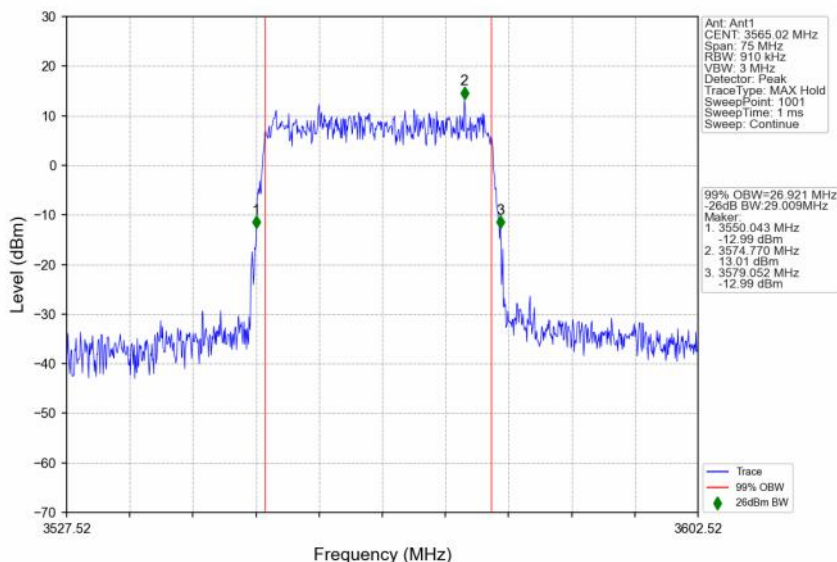
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n48_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM PI/2 BPSK_3684.99MHz_Outer_Full



n48_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM QPSK_3565.02MHz_Outer_Full

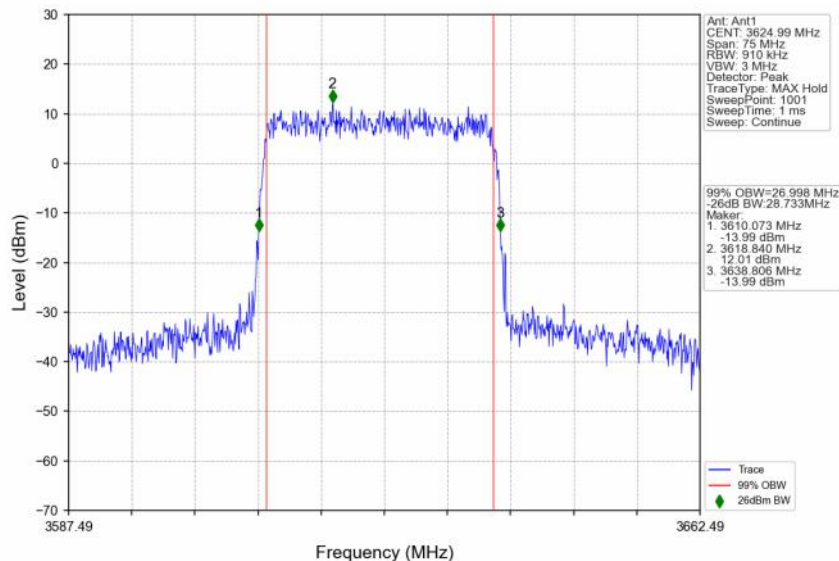


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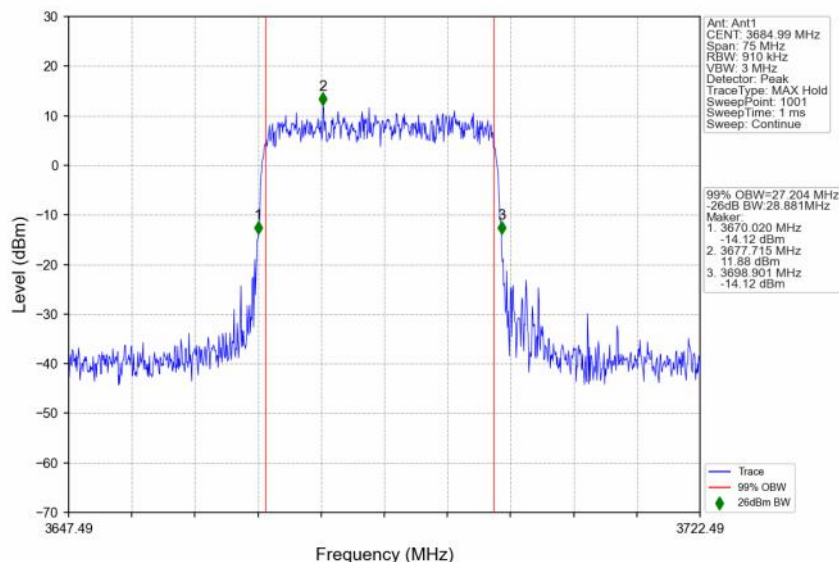
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n48_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_QPSK_3684.99MHz_Outer_Full

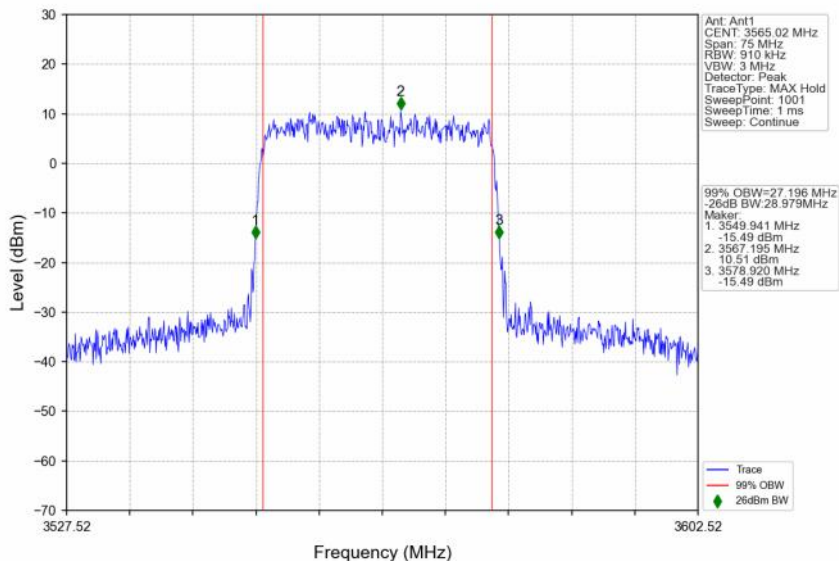


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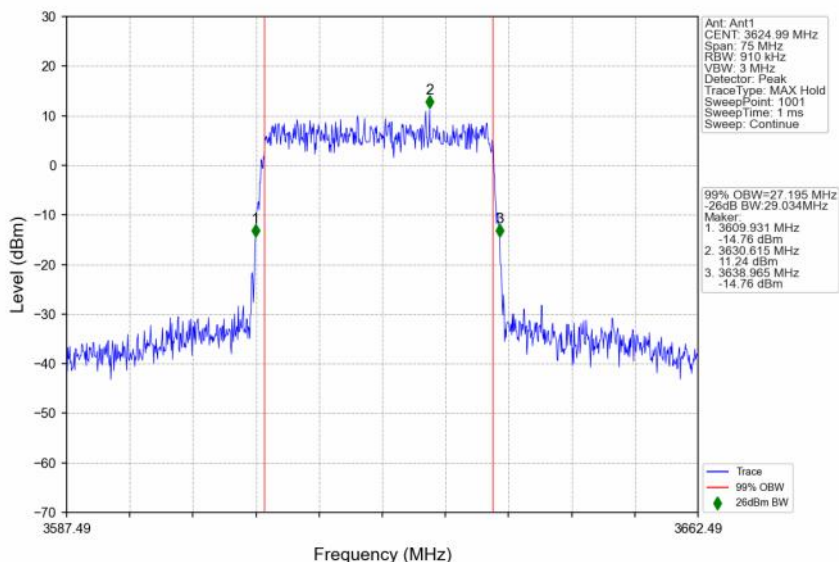
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n48_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_16_QAM_3565.02MHz_Outer_Full



n48_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_16_QAM_3624.99MHz_Outer_Full

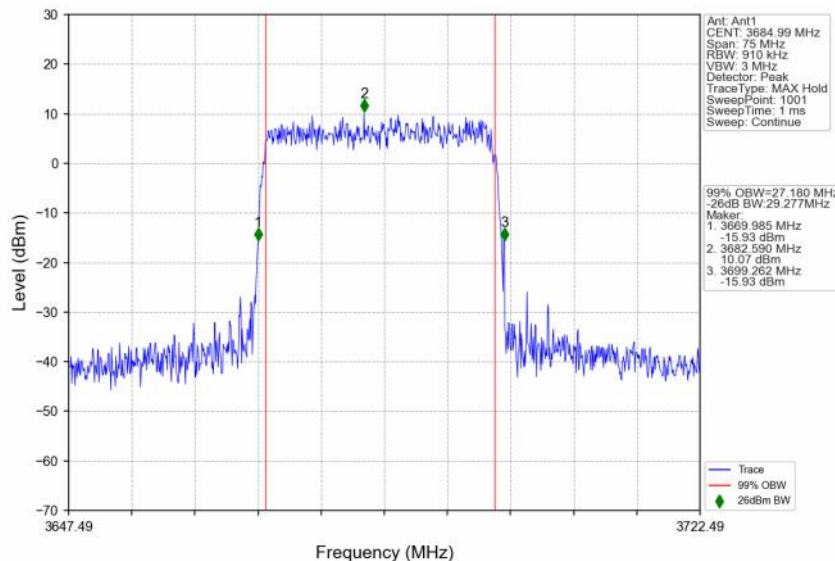


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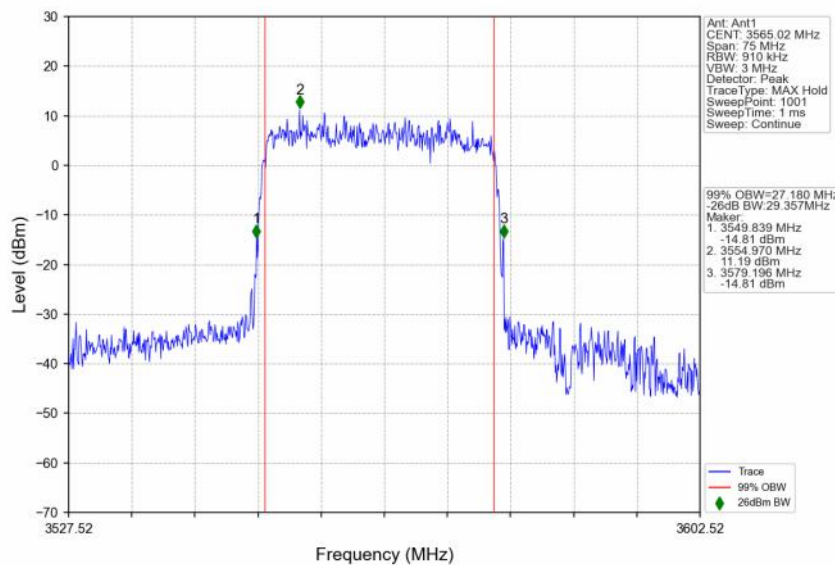
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n48_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM 16 QAM_3684.99MHz_Outer_Full



n48_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM 64 QAM_3565.02MHz_Outer_Full

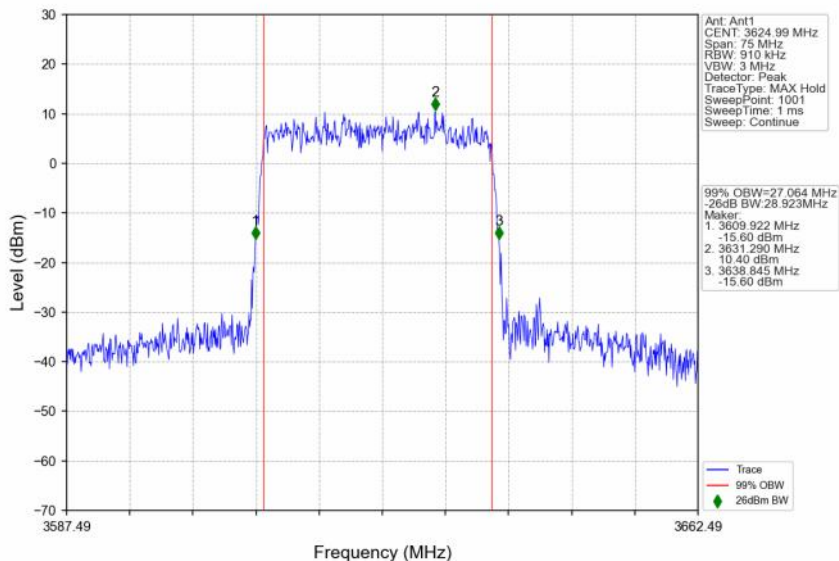


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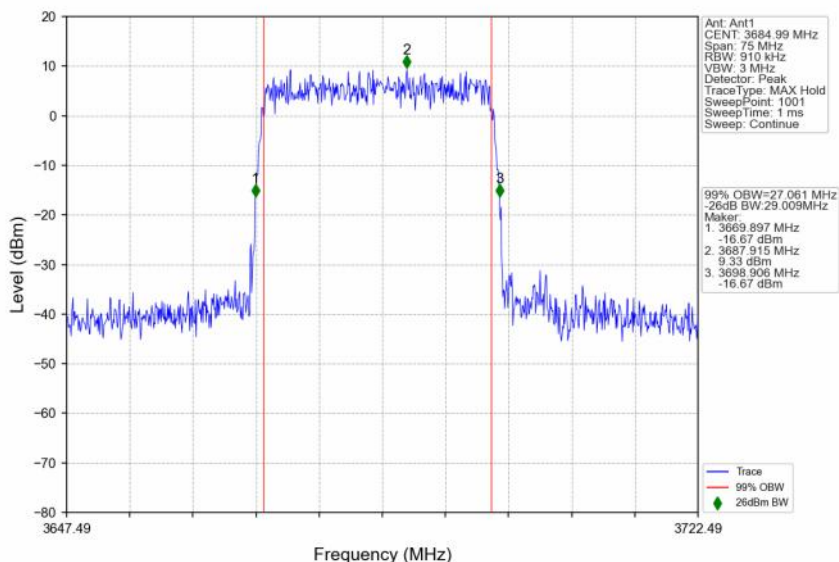
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n48_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_64_QAM_3684.99MHz_Outer_Full

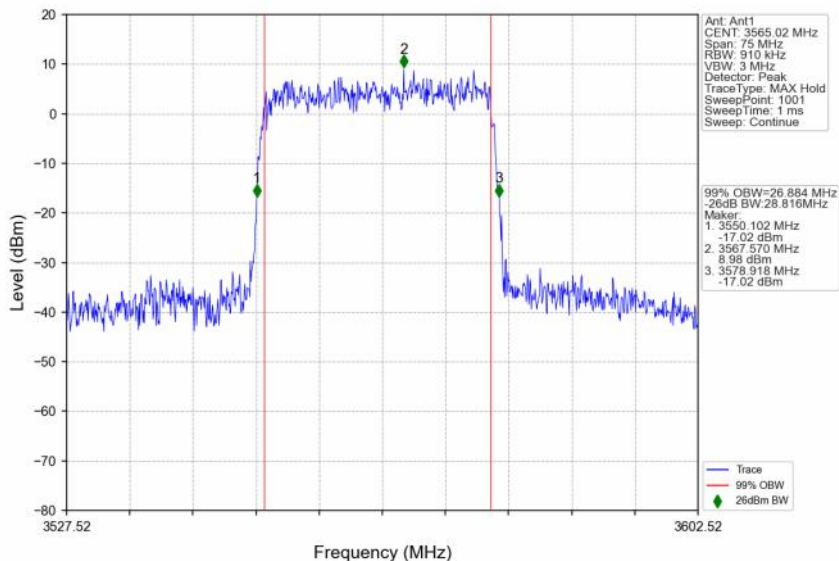


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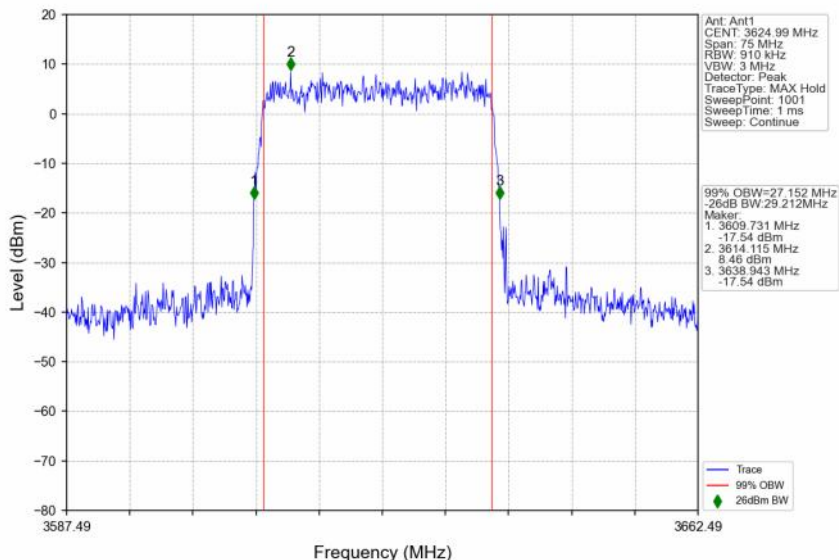
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n48_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM 256 QAM_3624.99MHz_Outer_Full

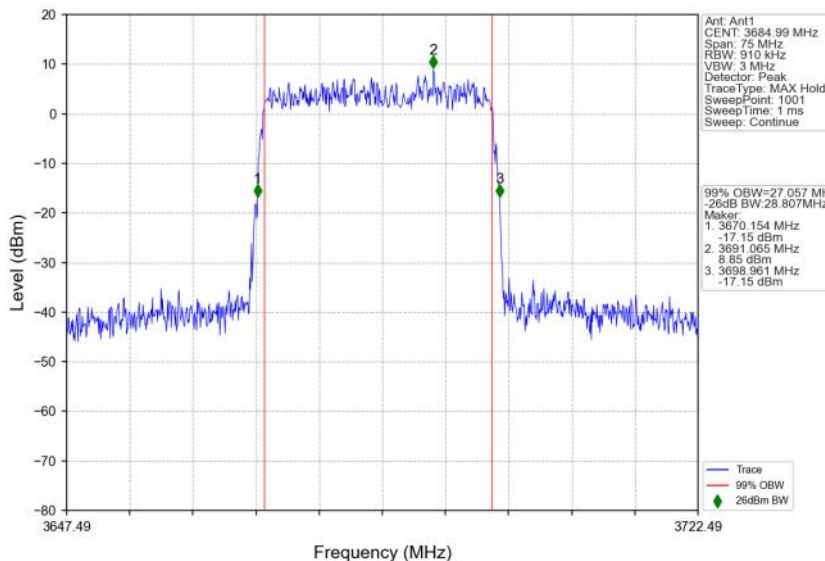


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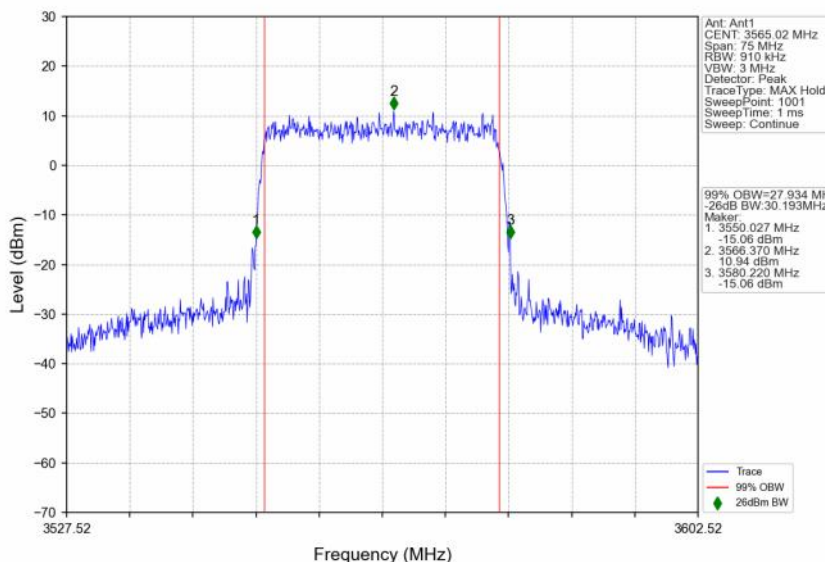
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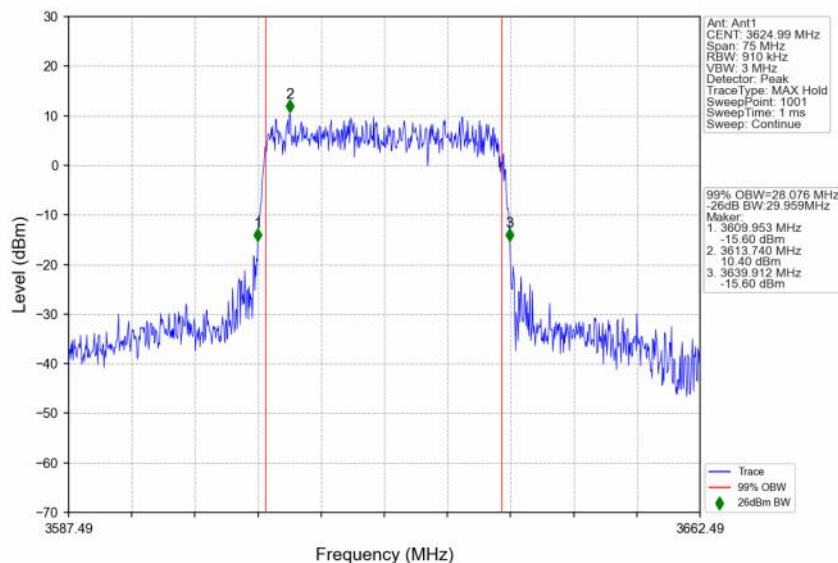


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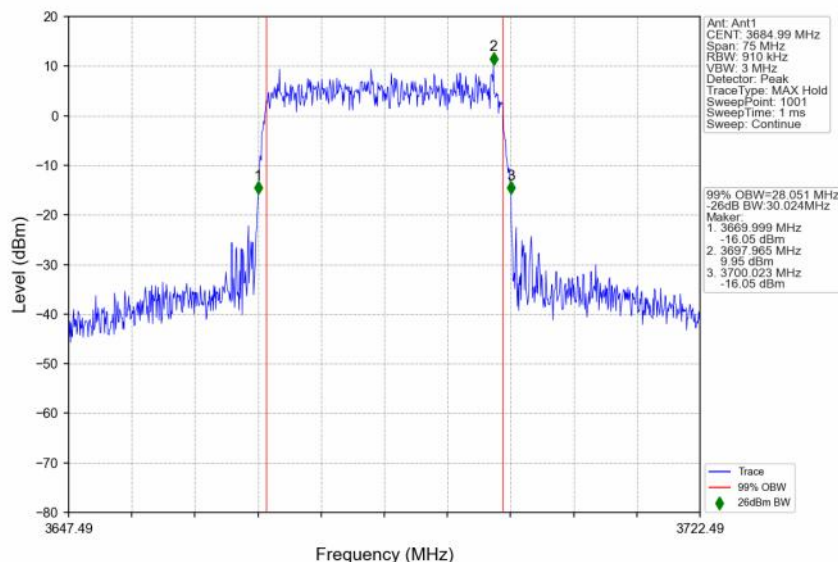
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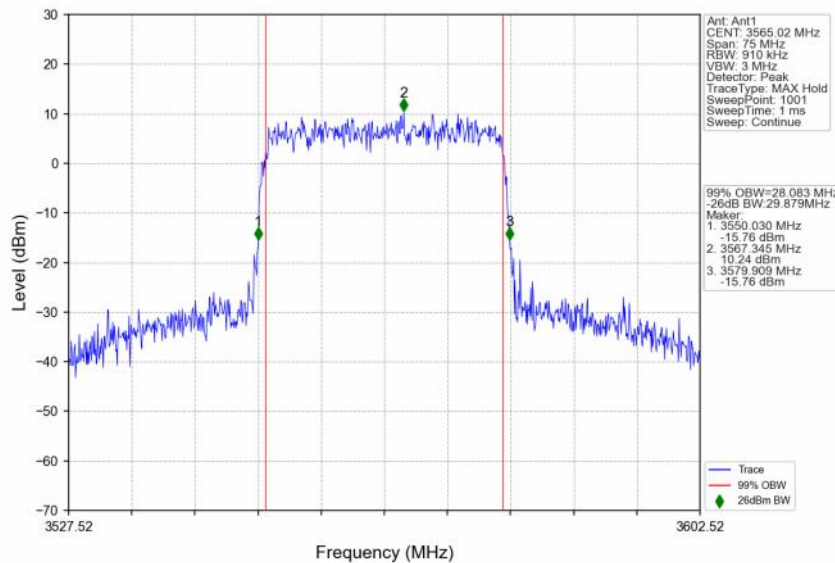


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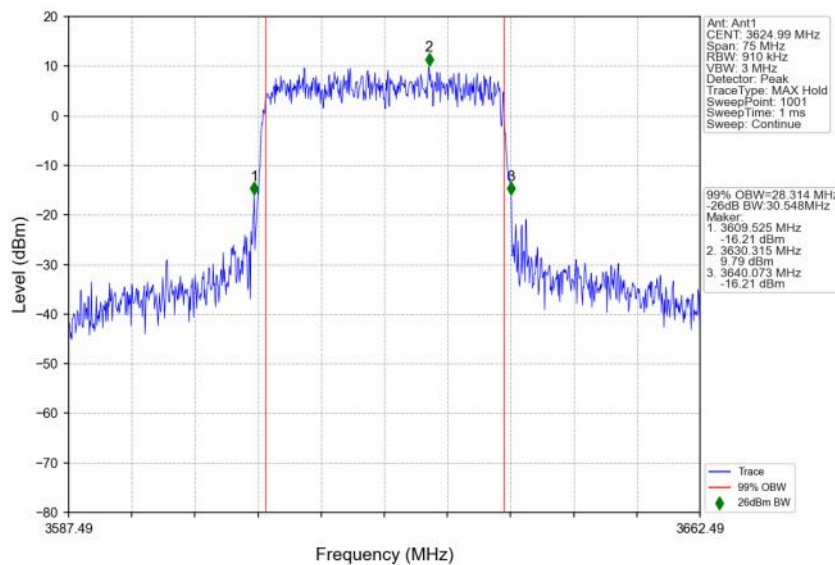
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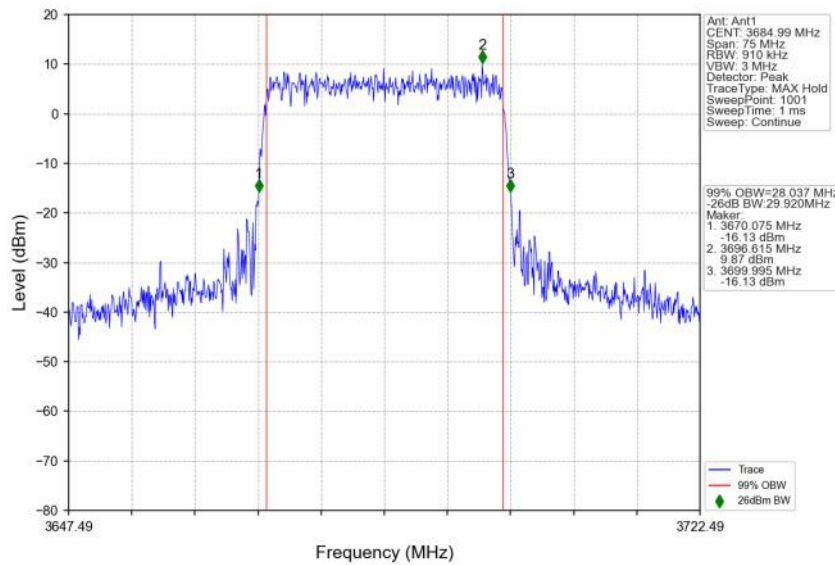


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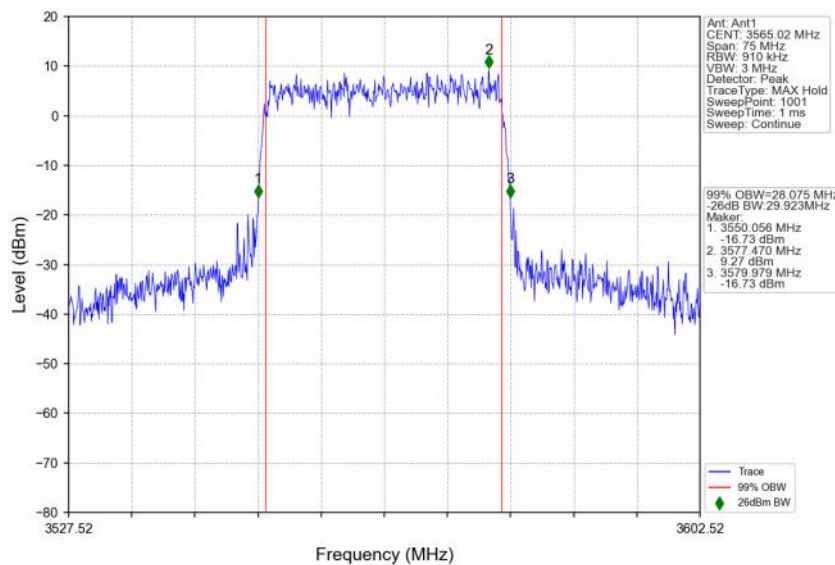
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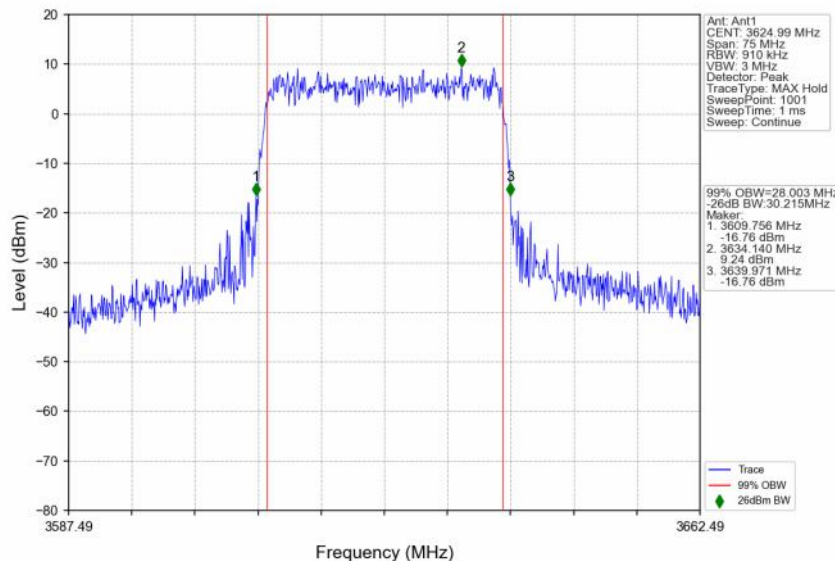


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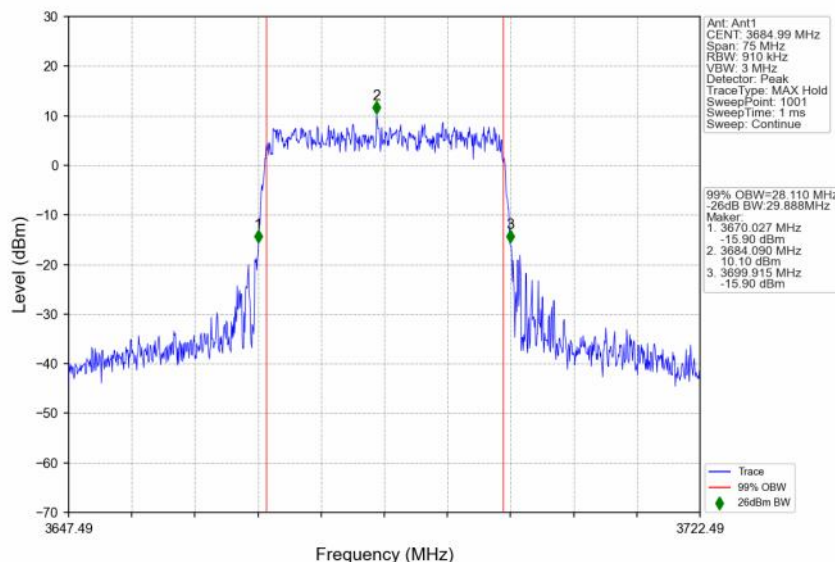
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n48_30kHz_SISO_NTNV_30MHz_CP-OFDM 64 QAM_3684.99MHz_Outer_Full

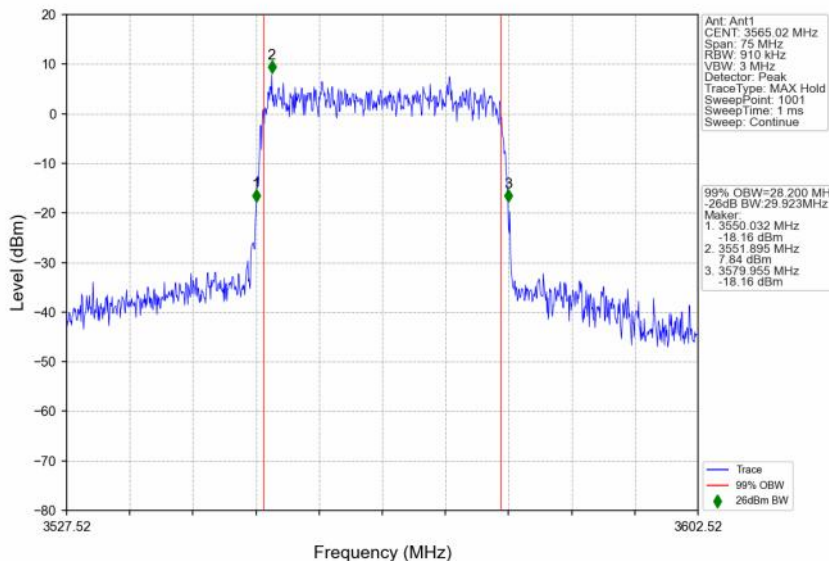


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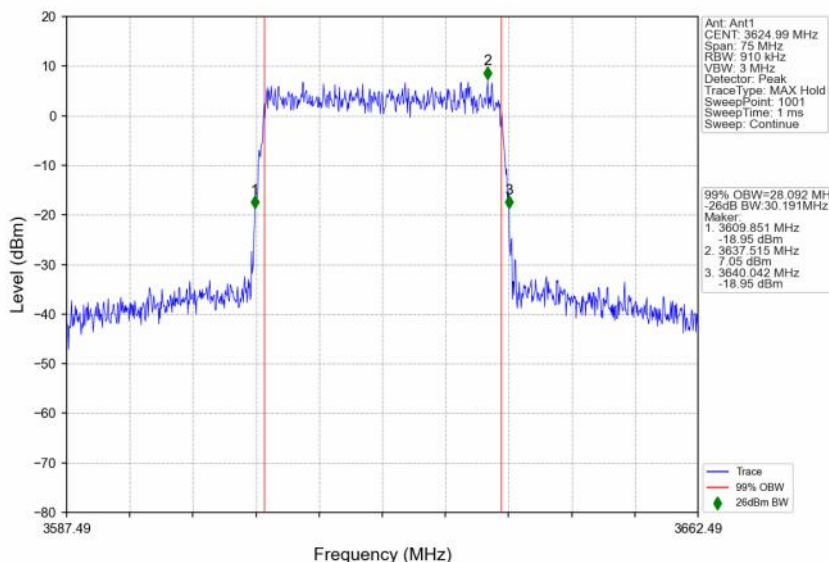
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n48_30kHz_SISO_NTNV_30MHz_CP-OFDM 256 QAM_3565.02MHz_Outer_Full



n48_30kHz_SISO_NTNV_30MHz_CP-OFDM 256 QAM_3624.99MHz_Outer_Full

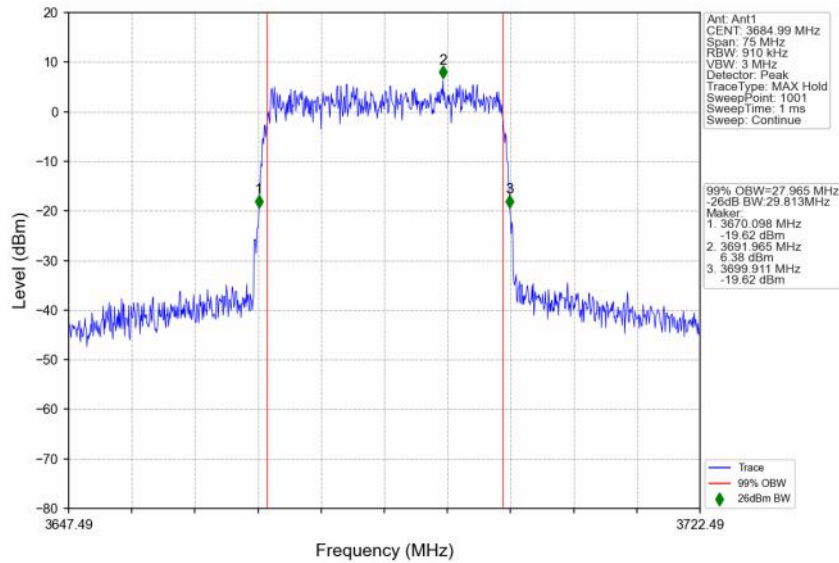


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n48_30kHz_SISO_NTNV_30MHz_CP-OFDM 256 QAM_3684.99MHz_Outer_Full



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5.4 30k_SISO_40MHz_NTNV

5.4.1 Test Result

5G NR n48 SCS=30kHz SISO 40MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3570	Outer_Full	36.13	38.49	/	Pass
	3624.99	Outer_Full	35.92	38.54	/	Pass
	3679.98	Outer_Full	35.94	38.46	/	Pass
DFT-s-OFDM QPSK	3570	Outer_Full	36.05	38.34	/	Pass
	3624.99	Outer_Full	35.98	38.76	/	Pass
	3679.98	Outer_Full	36.04	38.35	/	Pass
DFT-s-OFDM 16 QAM	3570	Outer_Full	36.05	38.48	/	Pass
	3624.99	Outer_Full	35.91	38.44	/	Pass
	3679.98	Outer_Full	35.96	38.53	/	Pass
DFT-s-OFDM 64 QAM	3570	Outer_Full	36.10	38.61	/	Pass
	3624.99	Outer_Full	36.16	38.52	/	Pass
	3679.98	Outer_Full	36.20	38.35	/	Pass
DFT-s-OFDM 256 QAM	3570	Outer_Full	35.91	38.57	/	Pass
	3624.99	Outer_Full	35.79	38.00	/	Pass
	3679.98	Outer_Full	36.02	38.07	/	Pass
CP-OFDM QPSK	3570	Outer_Full	38.19	40.43	/	Pass
	3624.99	Outer_Full	37.97	40.79	/	Pass
	3679.98	Outer_Full	38.23	40.61	/	Pass
CP-OFDM 16 QAM	3570	Outer_Full	37.99	40.45	/	Pass
	3624.99	Outer_Full	38.22	40.51	/	Pass
	3679.98	Outer_Full	38.03	40.49	/	Pass
CP-OFDM 64 QAM	3570	Outer_Full	38.18	40.62	/	Pass
	3624.99	Outer_Full	38.03	40.77	/	Pass
	3679.98	Outer_Full	38.17	40.68	/	Pass
CP-OFDM 256 QAM	3570	Outer_Full	38.20	40.76	/	Pass
	3624.99	Outer_Full	37.89	41.02	/	Pass
	3679.98	Outer_Full	37.84	40.59	/	Pass

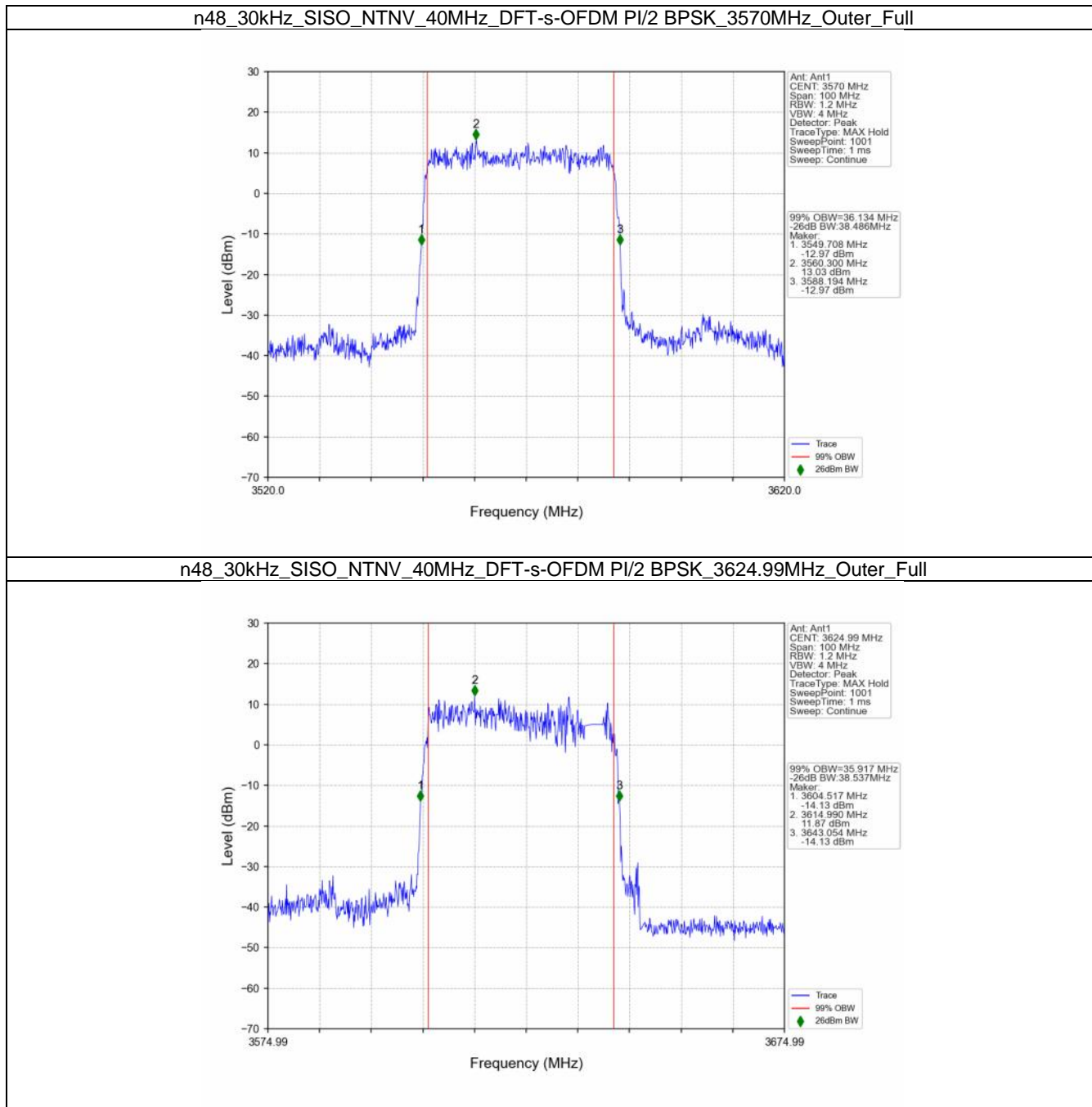


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5.4.2 Test Graph

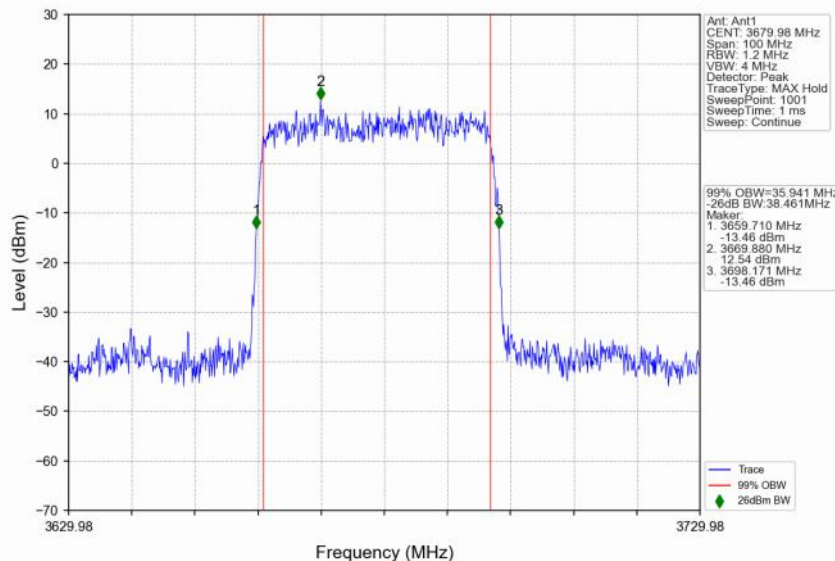


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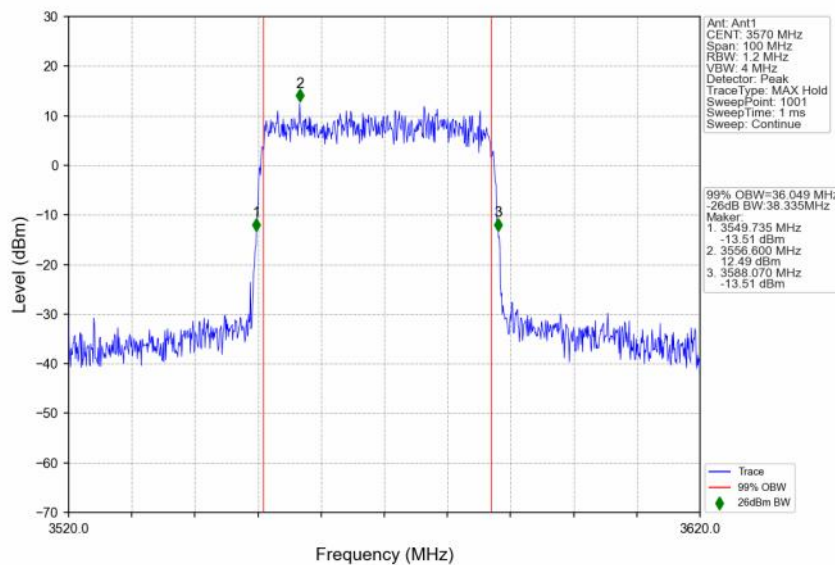
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n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM PI/2 BPSK_3679.98MHz_Outer_Full



n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM QPSK_3570MHz_Outer_Full

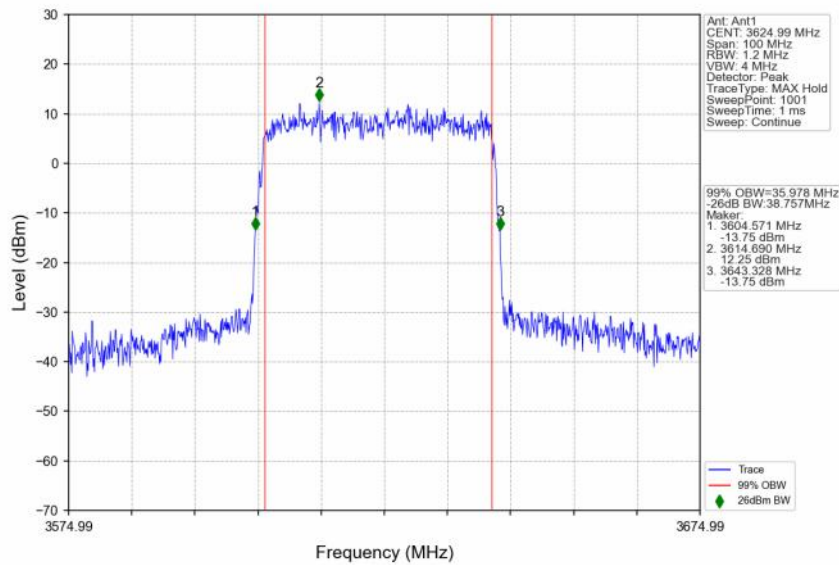


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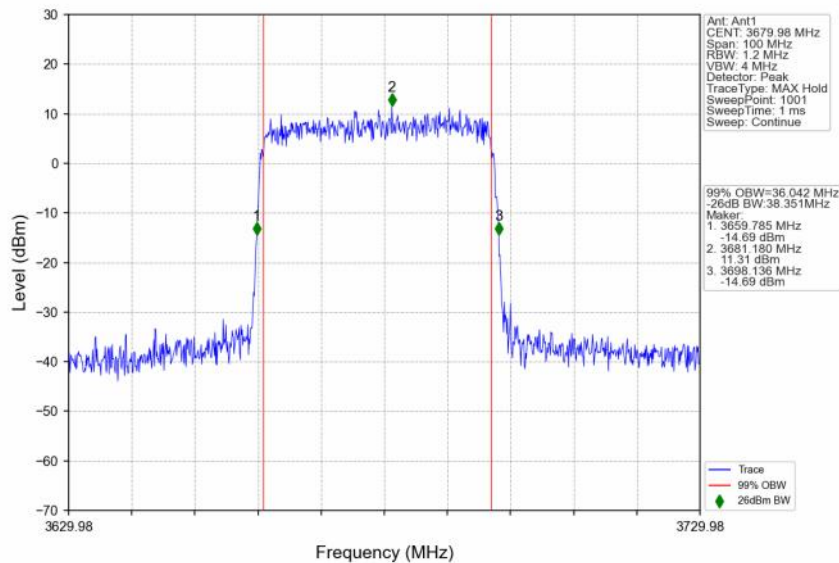
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n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM QPSK_3624.99MHz_Outer_Full



n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM QPSK_3679.98MHz_Outer_Full

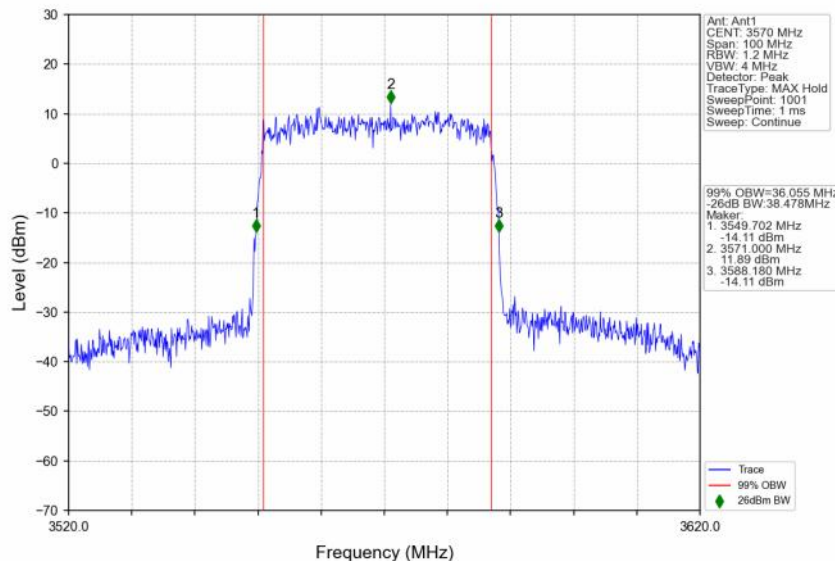


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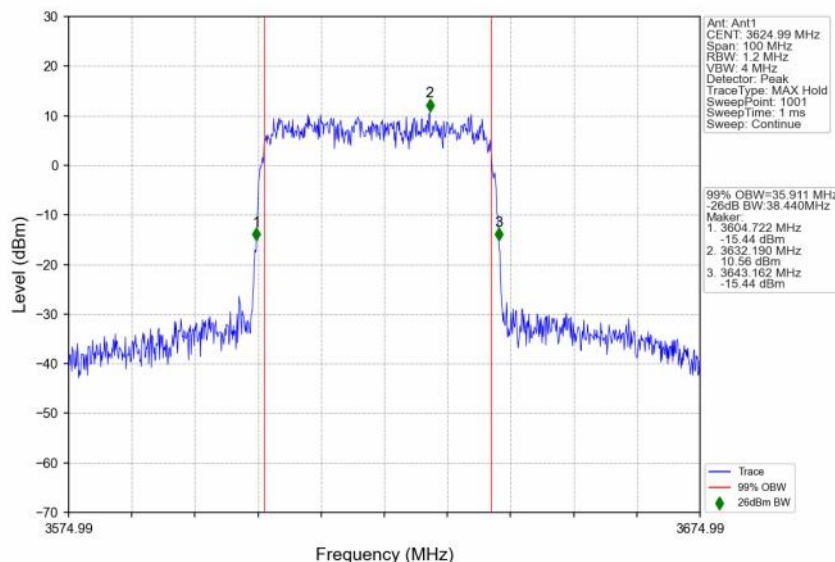
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n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_16 QAM_3570MHz_Outer_Full



n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_16 QAM_3624.99MHz_Outer_Full

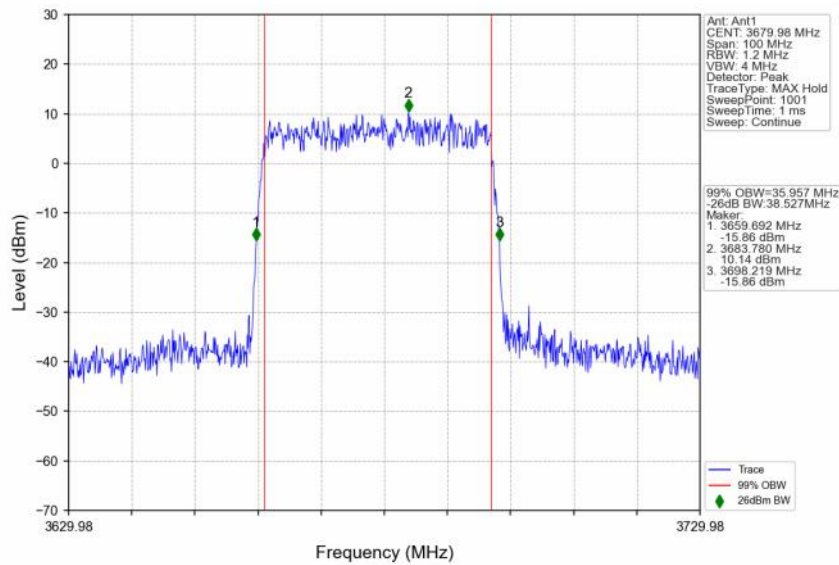


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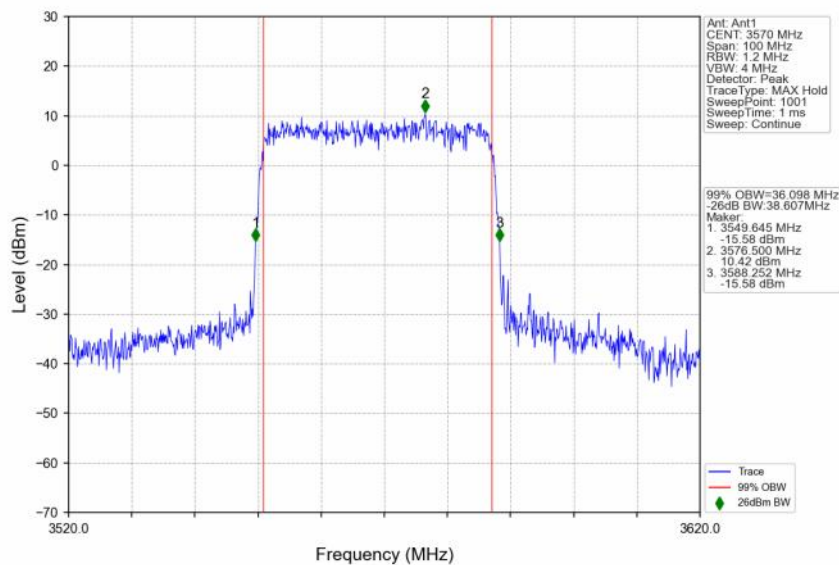
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n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM 16 QAM_3679.98MHz_Outer_Full



n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM 64 QAM_3570MHz_Outer_Full

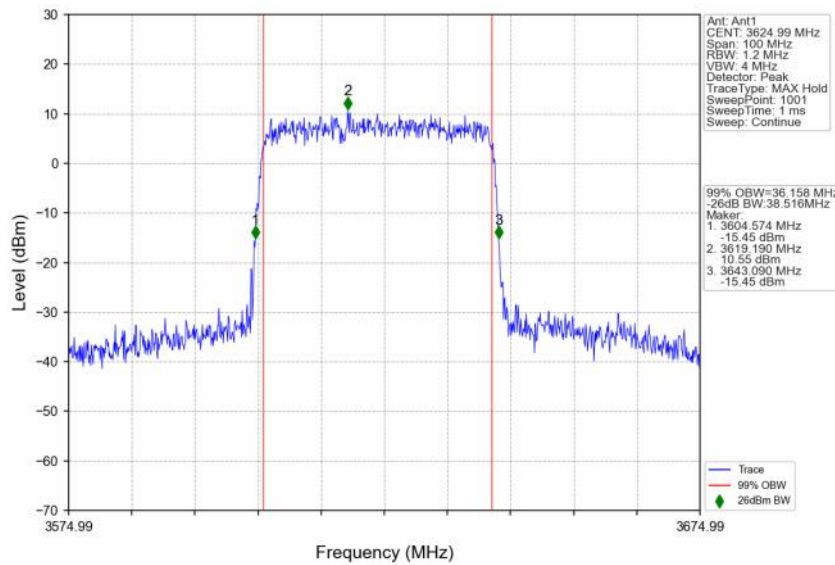


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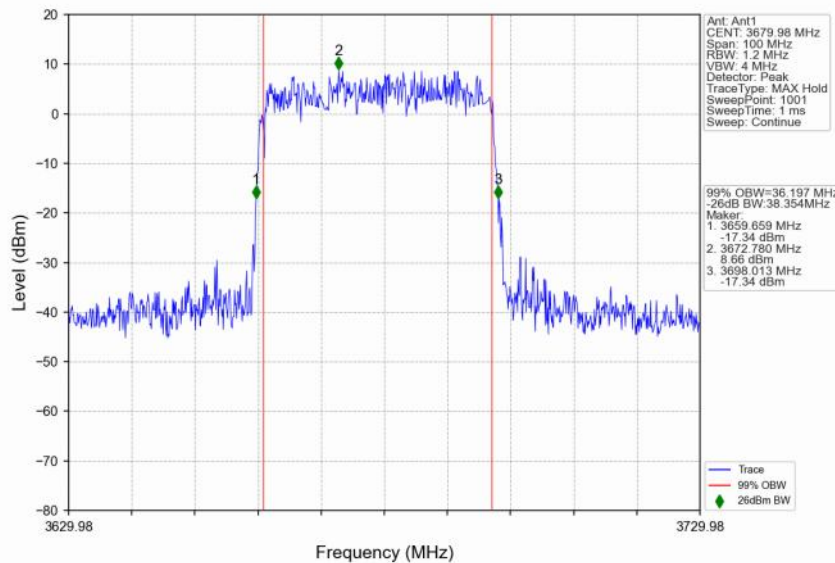
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n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_64_QAM_3679.98MHz_Outer_Full

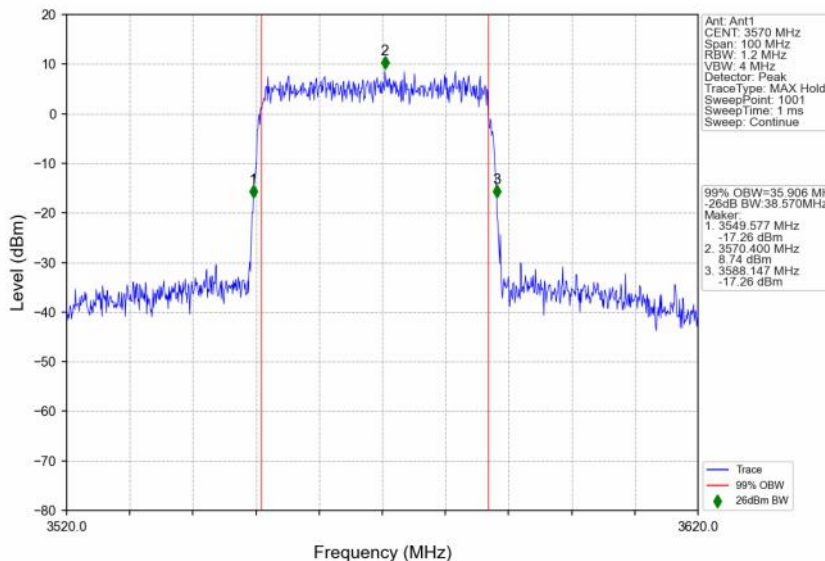


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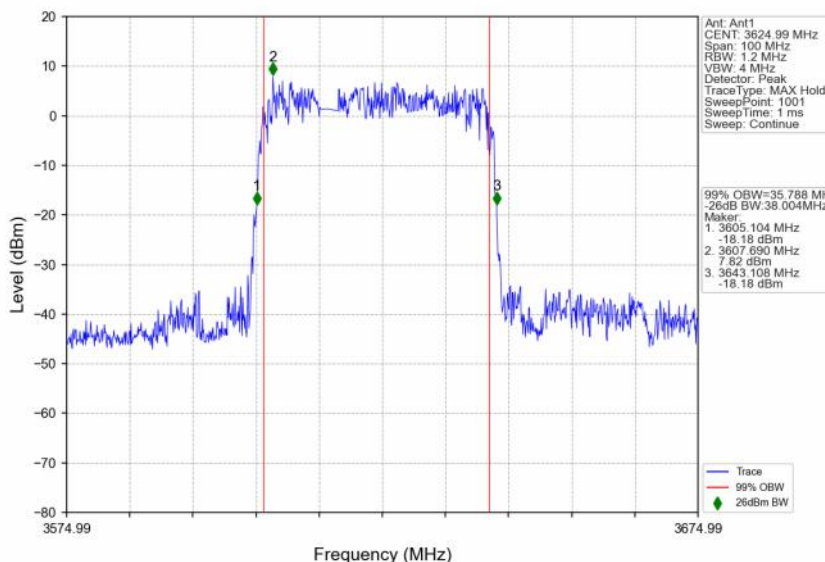
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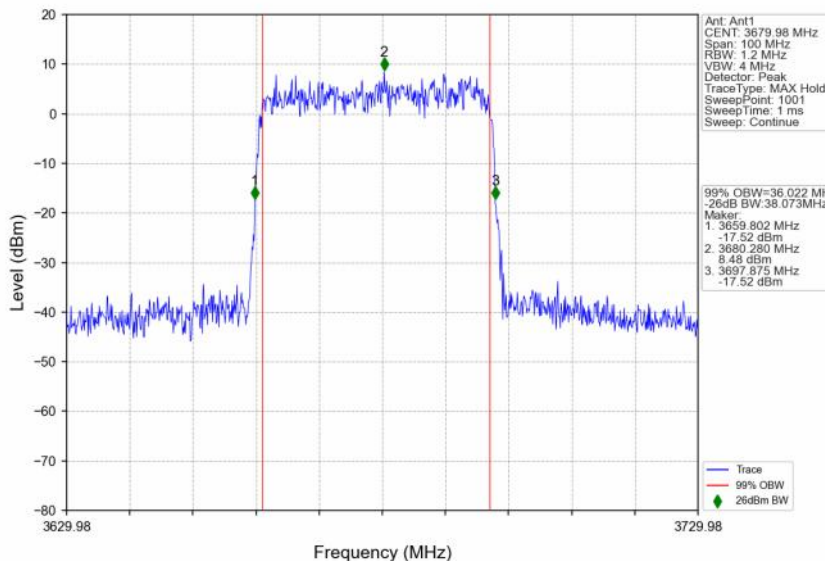


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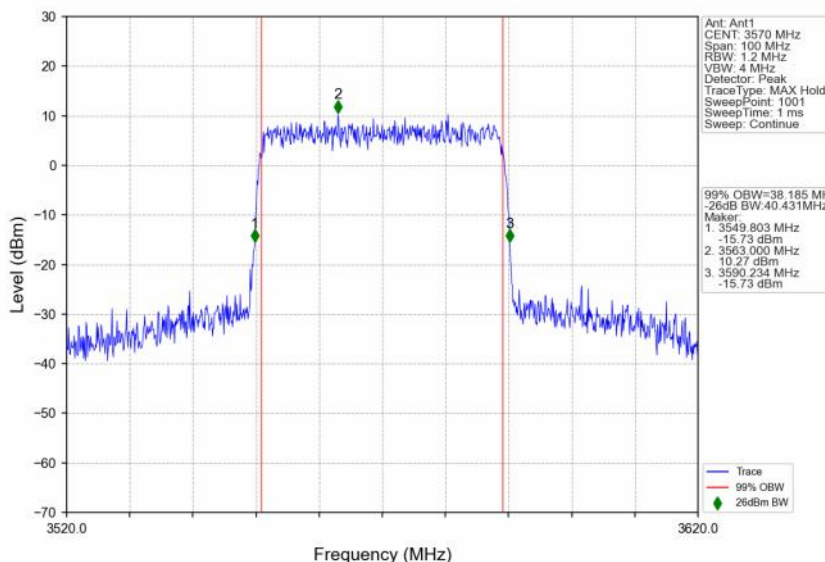
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n48_30kHz_SISO_NTNV_40MHz_CP-OFDM QPSK_3570MHz_Outer_Full

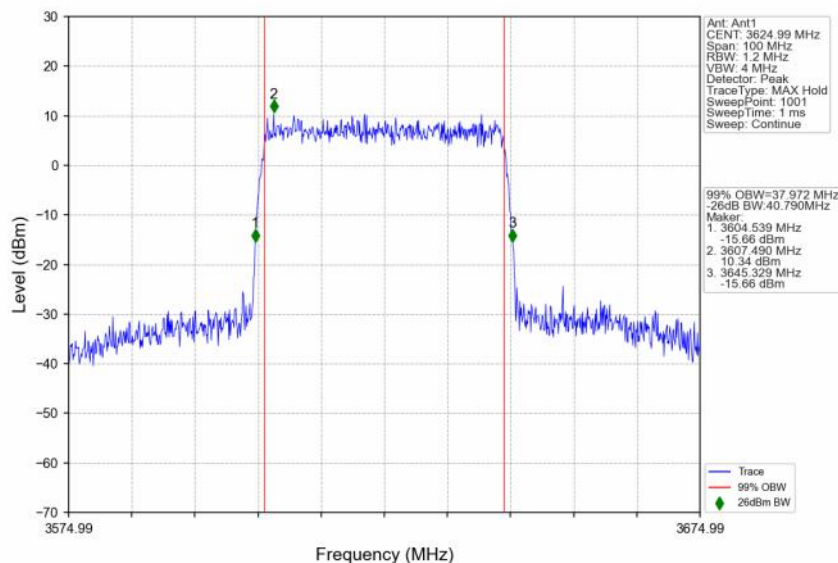


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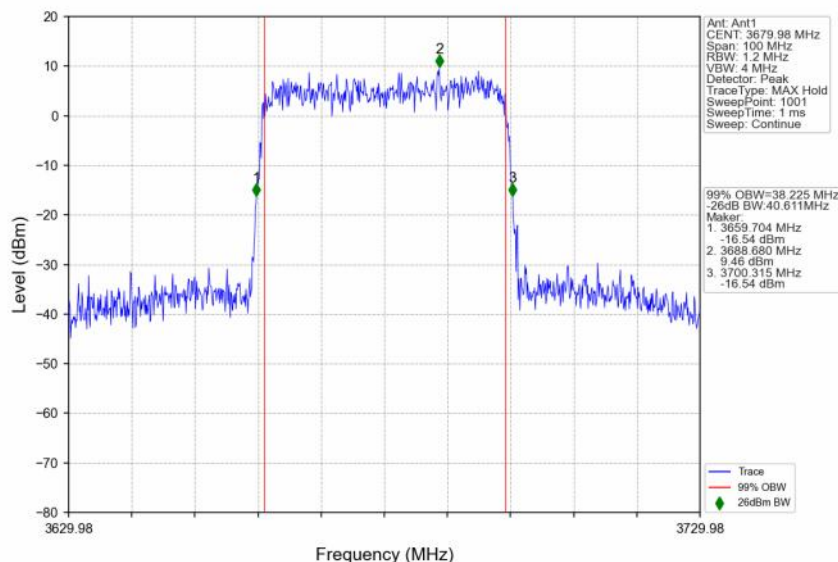
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n48_30kHz_SISO_NTNV_40MHz_CP-OFDM QPSK_3679.98MHz_Outer_Full

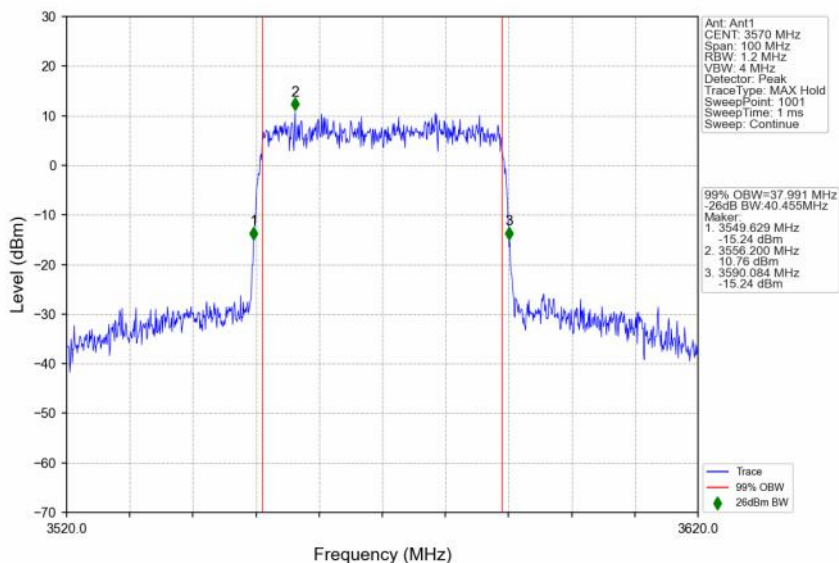


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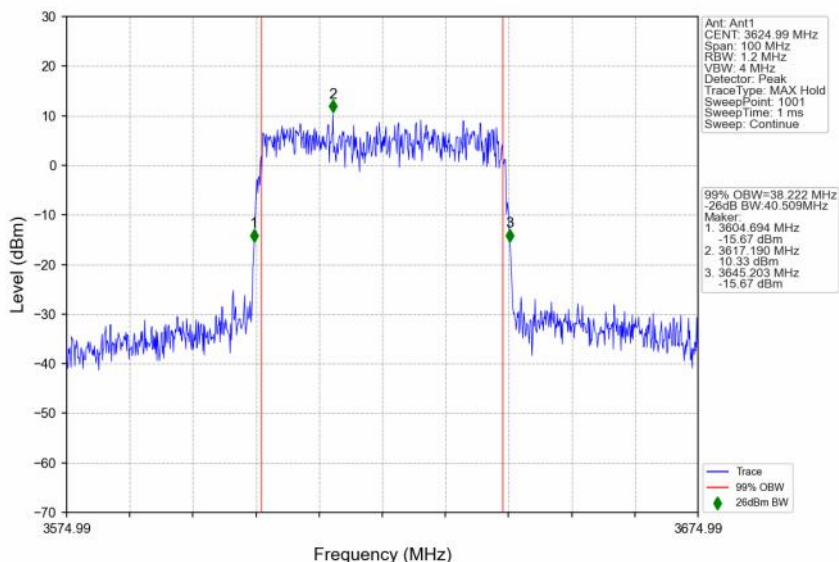
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n48_30kHz_SISO_NTNV_40MHz_CP-OFDM 16 QAM_3570MHz_Outer_Full



n48_30kHz_SISO_NTNV_40MHz_CP-OFDM 16 QAM_3624.99MHz_Outer_Full

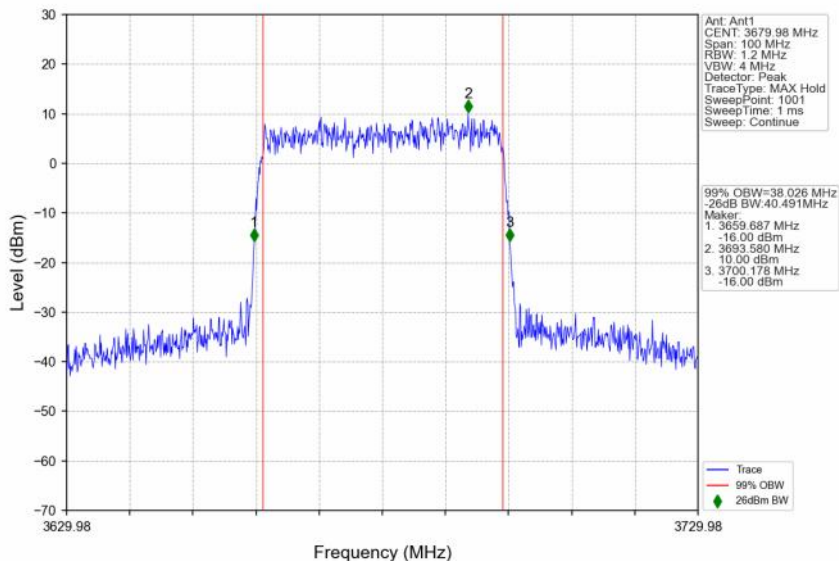


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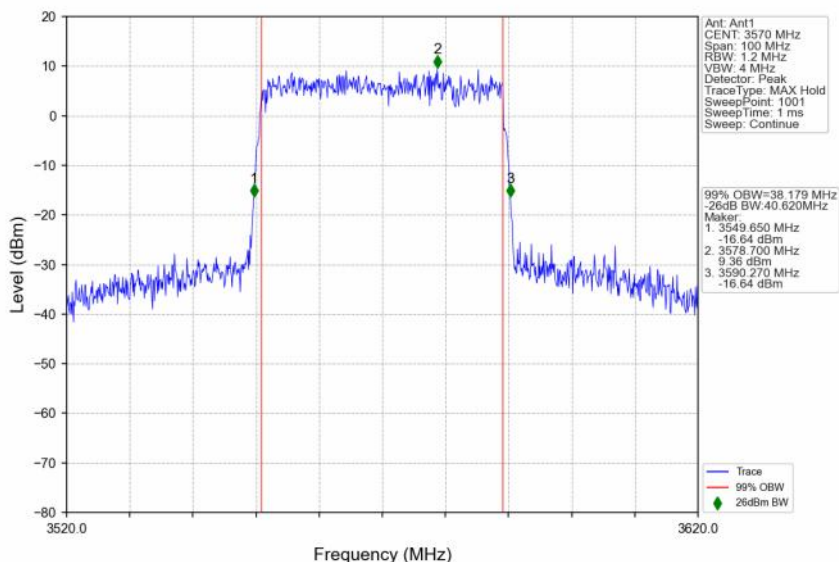
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n48_30kHz_SISO_NTNV_40MHz_CP-OFDM 16 QAM_3679.98MHz_Outer_Full



n48_30kHz_SISO_NTNV_40MHz_CP-OFDM 64 QAM_3570MHz_Outer_Full

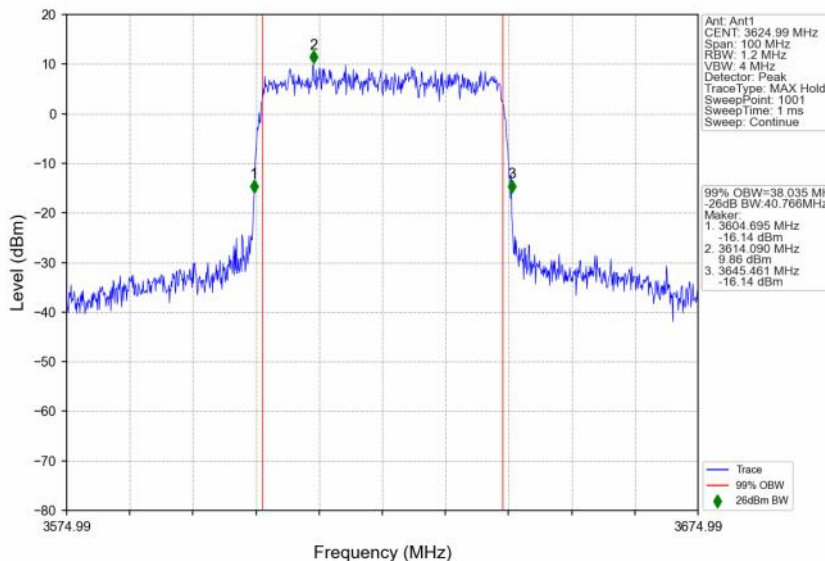


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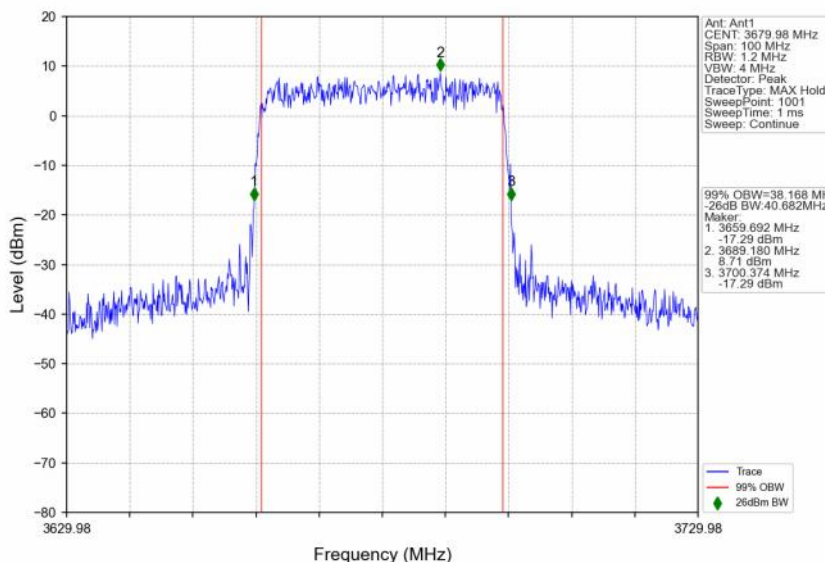
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n48_30kHz_SISO_NTNV_40MHz_CP-OFDM 64 QAM_3624.99MHz_Outer_Full



n48_30kHz_SISO_NTNV_40MHz_CP-OFDM 64 QAM_3679.98MHz_Outer_Full

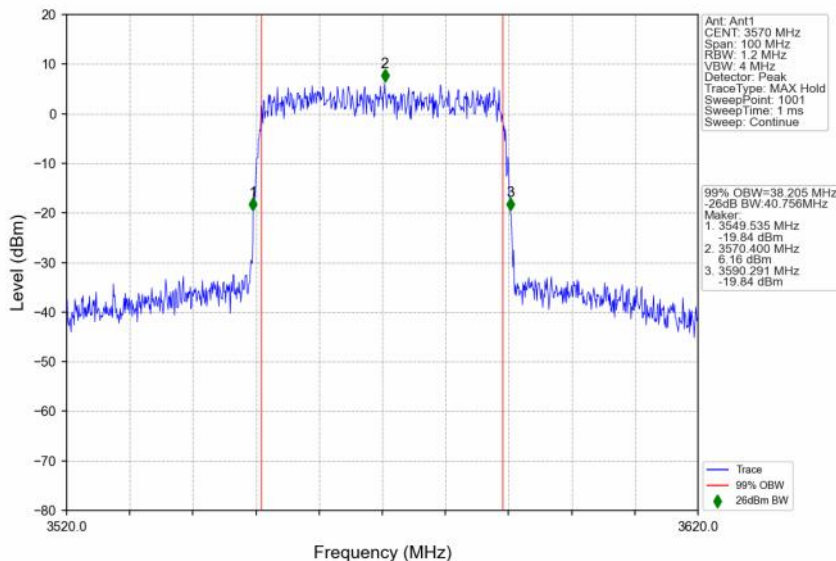


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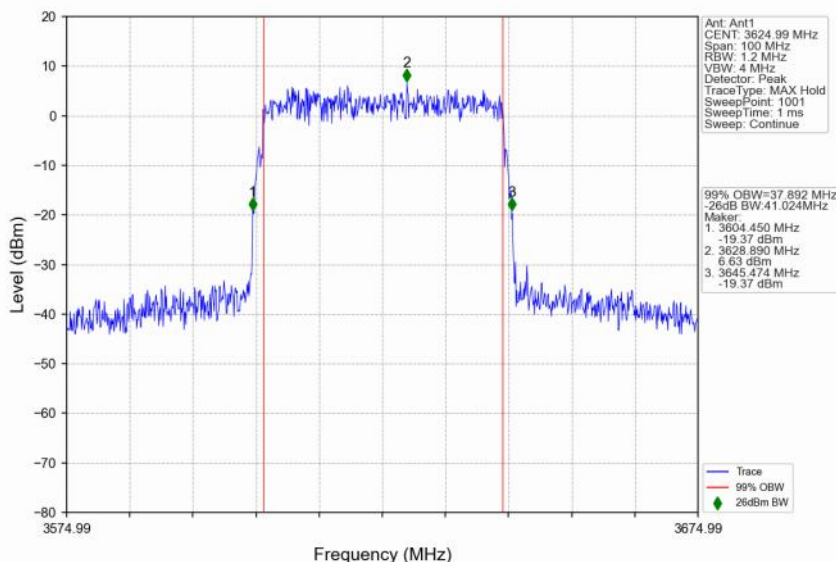
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n48_30kHz_SISO_NTNV_40MHz_CP-OFDM 256 QAM_3570MHz_Outer_Full



n48_30kHz_SISO_NTNV_40MHz_CP-OFDM 256 QAM_3624.99MHz_Outer_Full

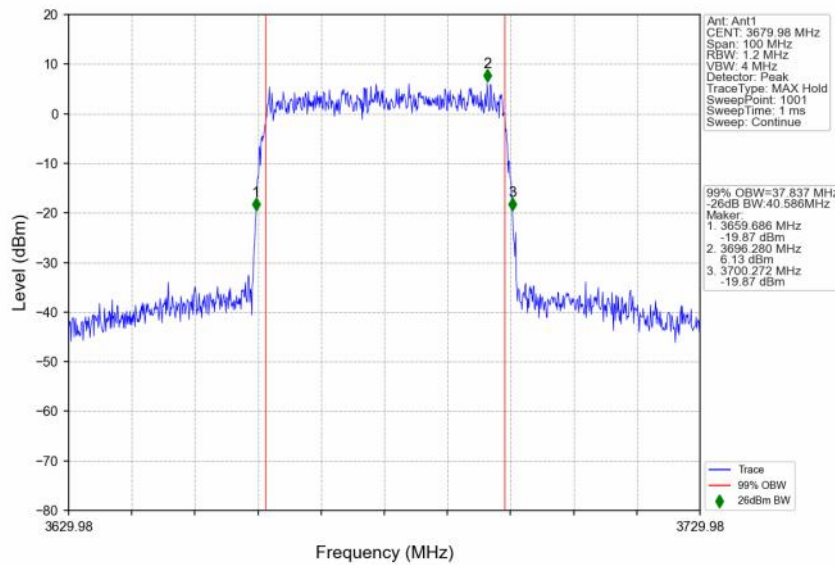


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n48_30kHz_SISO_NTNV_40MHz_CP-OFDM 256 QAM_3679.98MHz_Outer_Full



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6. Peak-Average Ratio

6.1 30k_SISO_10MHz_NTNV

6.1.1 Test Result

5G NR n48 SCS=30kHz SISO 10MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3555	Outer_Full	8.34	/	/	<=13	Pass
	3624.99	Outer_Full	8.39	/	/	<=13	Pass
	3694.98	Outer_Full	8.28	/	/	<=13	Pass
DFT-s-OFDM QPSK	3555	Outer_Full	9.31	/	/	<=13	Pass
	3624.99	Outer_Full	8.94	/	/	<=13	Pass
	3694.98	Outer_Full	9.17	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3555	Outer_Full	10.06	/	/	<=13	Pass
	3624.99	Outer_Full	10.12	/	/	<=13	Pass
	3694.98	Outer_Full	9.85	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3555	Outer_Full	10.37	/	/	<=13	Pass
	3624.99	Outer_Full	10.32	/	/	<=13	Pass
	3694.98	Outer_Full	10.07	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3555	Outer_Full	10.63	/	/	<=13	Pass
	3624.99	Outer_Full	10.39	/	/	<=13	Pass
	3694.98	Outer_Full	10.29	/	/	<=13	Pass
CP-OFDM QPSK	3555	Outer_Full	11.12	/	/	<=13	Pass
	3624.99	Outer_Full	11.31	/	/	<=13	Pass
	3694.98	Outer_Full	10.89	/	/	<=13	Pass
CP-OFDM 16 QAM	3555	Outer_Full	11.19	/	/	<=13	Pass
	3624.99	Outer_Full	11.27	/	/	<=13	Pass
	3694.98	Outer_Full	10.85	/	/	<=13	Pass
CP-OFDM 64 QAM	3555	Outer_Full	11.48	/	/	<=13	Pass
	3624.99	Outer_Full	11.46	/	/	<=13	Pass
	3694.98	Outer_Full	11.09	/	/	<=13	Pass
CP-OFDM 256 QAM	3555	Outer_Full	11.59	/	/	<=13	Pass
	3624.99	Outer_Full	11.64	/	/	<=13	Pass
	3694.98	Outer_Full	11.59	/	/	<=13	Pass

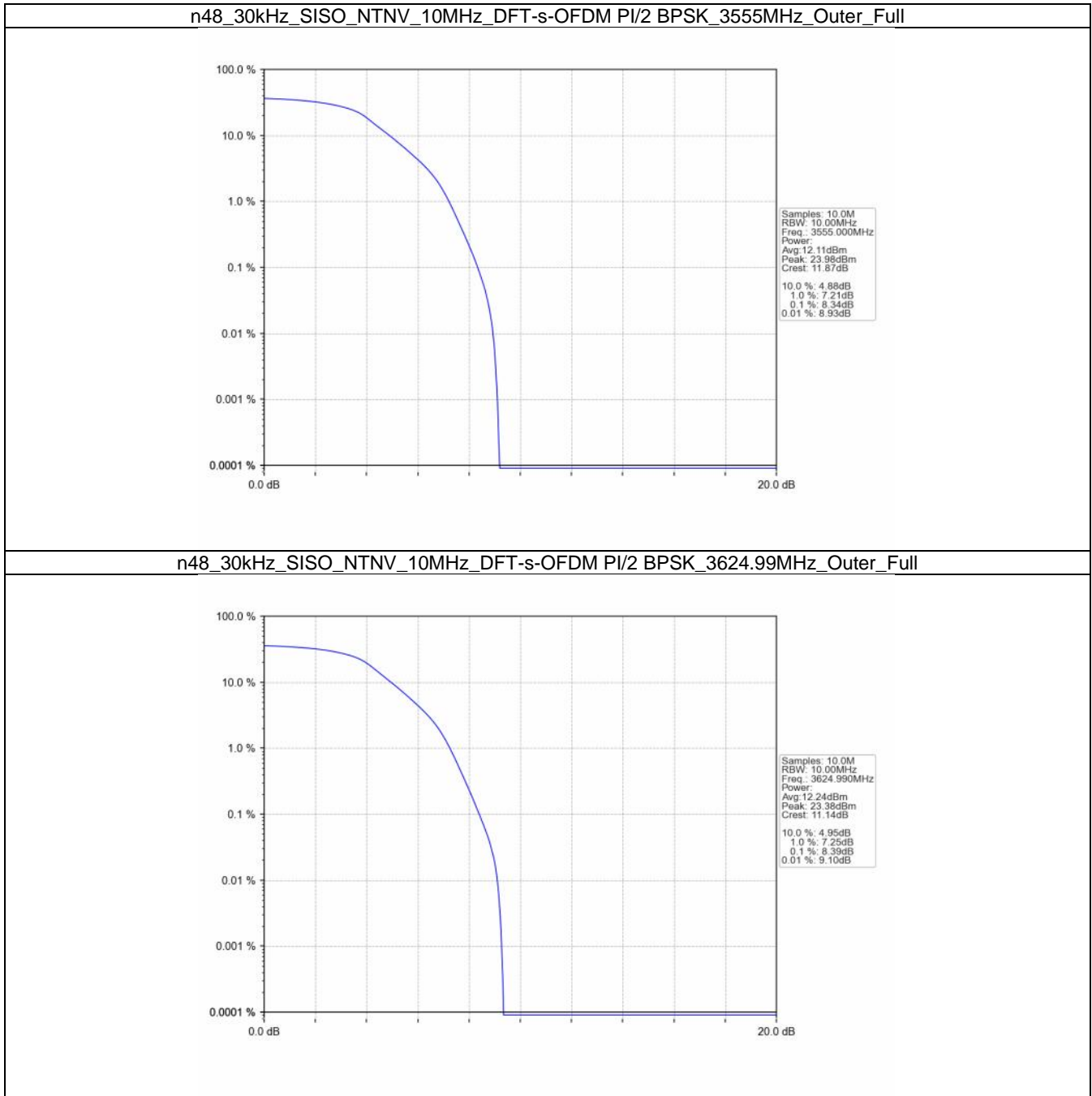


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6.1.2 Test Graph

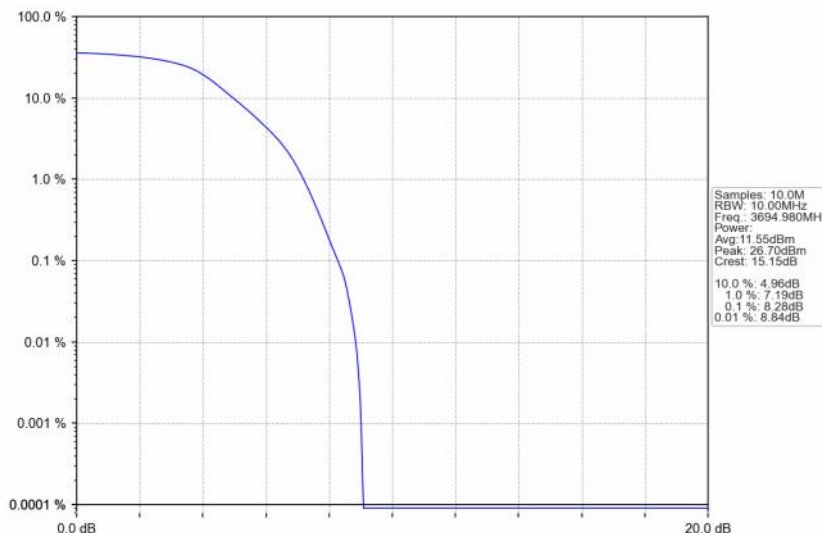


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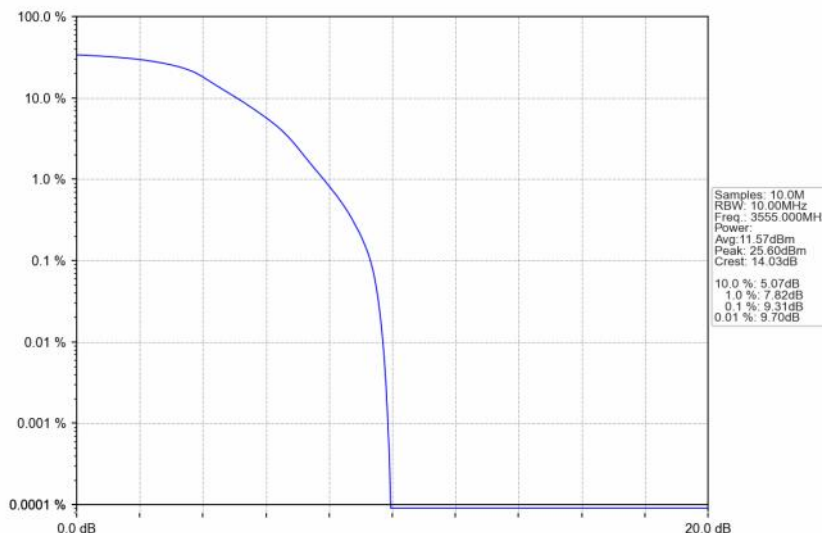
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n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_3694.98MHz_Outer_Full



n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_3555MHz_Outer_Full

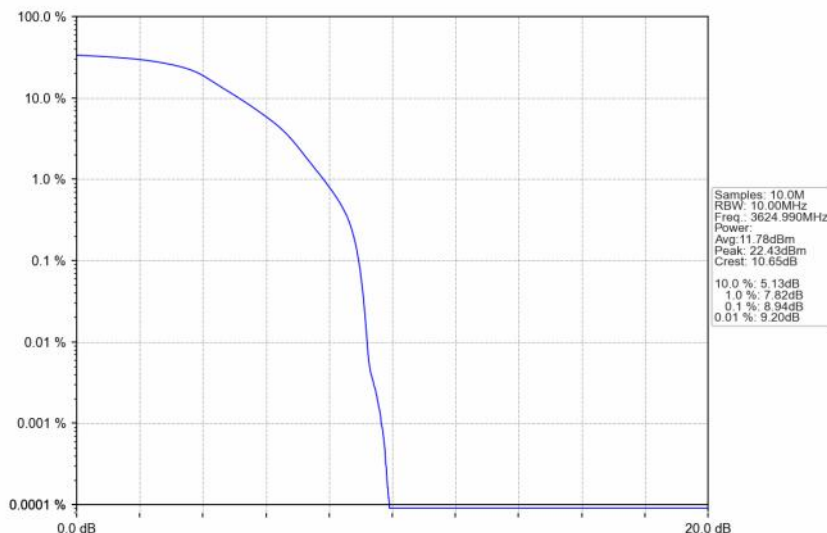


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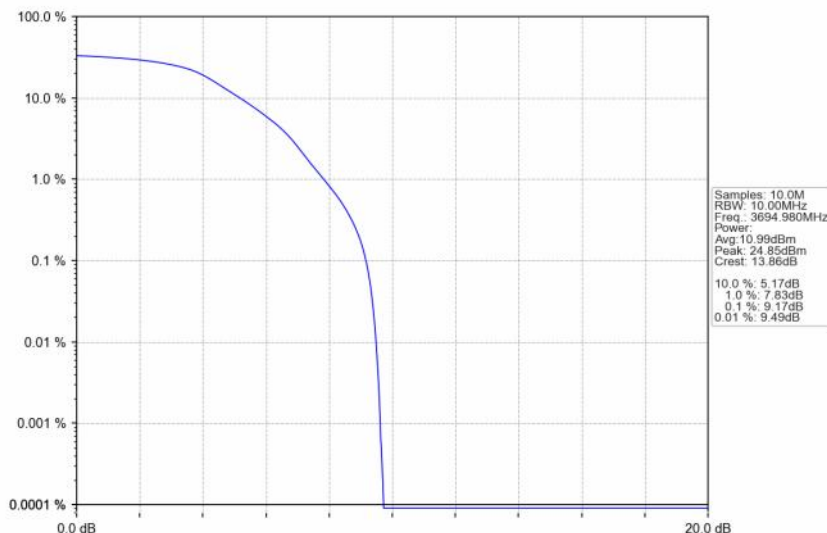
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n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_3624.99MHz_Outer_Full



n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_3694.98MHz_Outer_Full

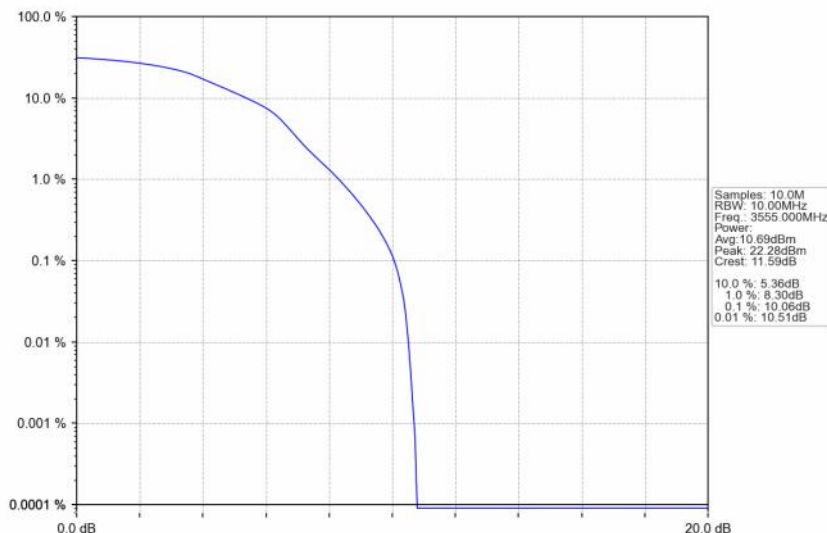


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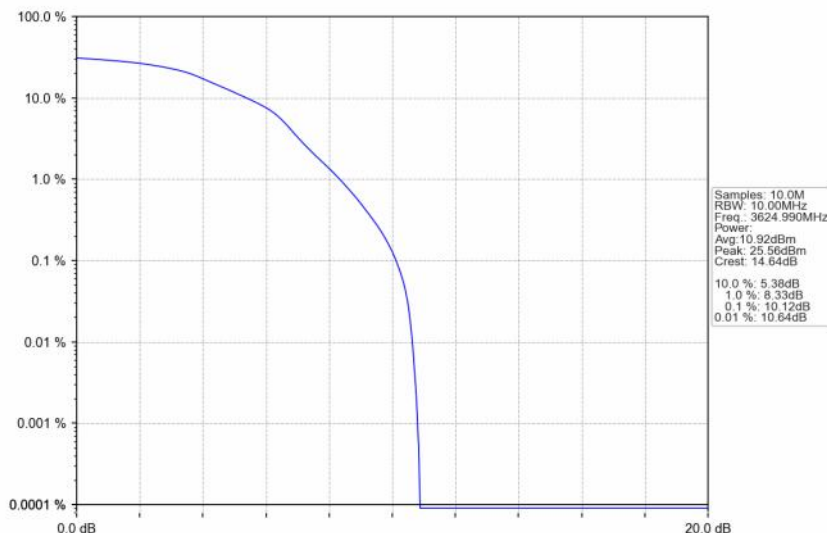
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n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_16 QAM_3555MHz_Outer_Full



n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_16 QAM_3624.99MHz_Outer_Full

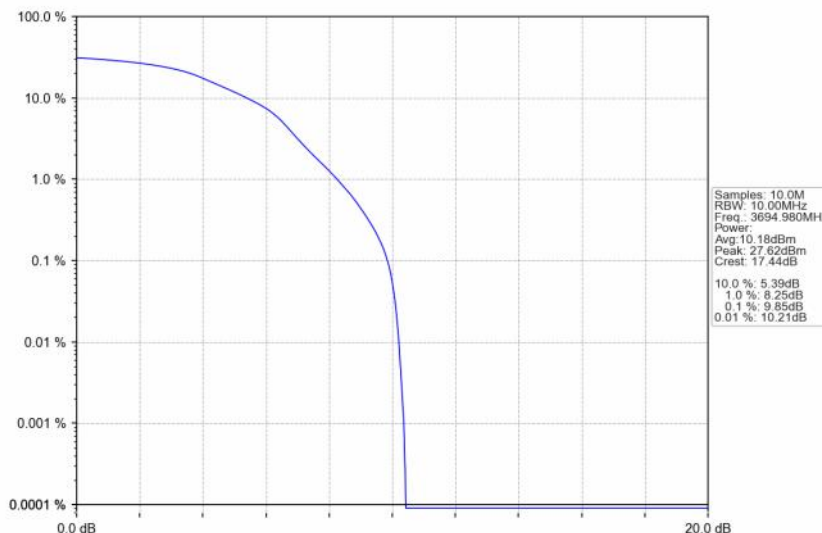


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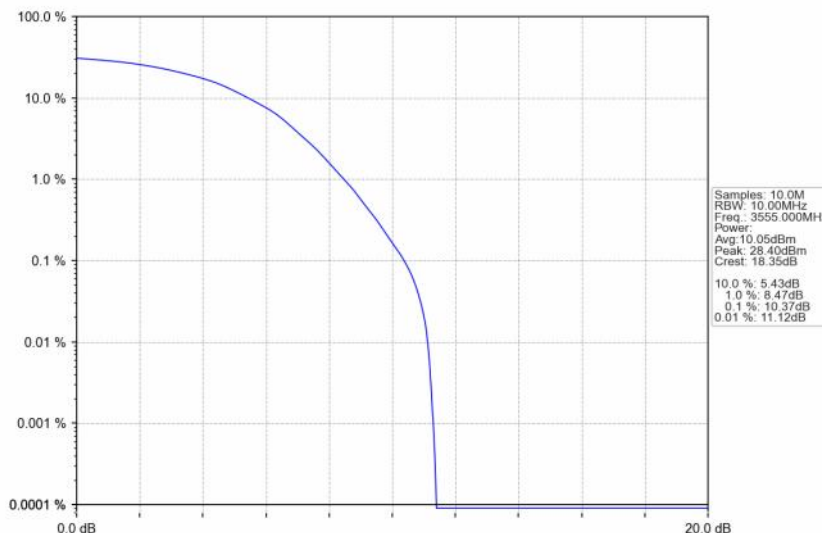
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n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 16 QAM_3694.98MHz_Outer_Full



n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 64 QAM_3555MHz_Outer_Full

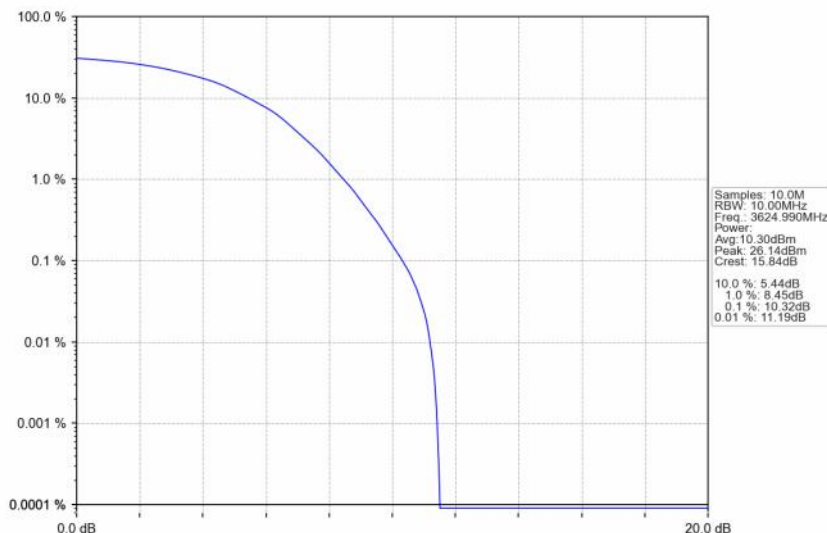


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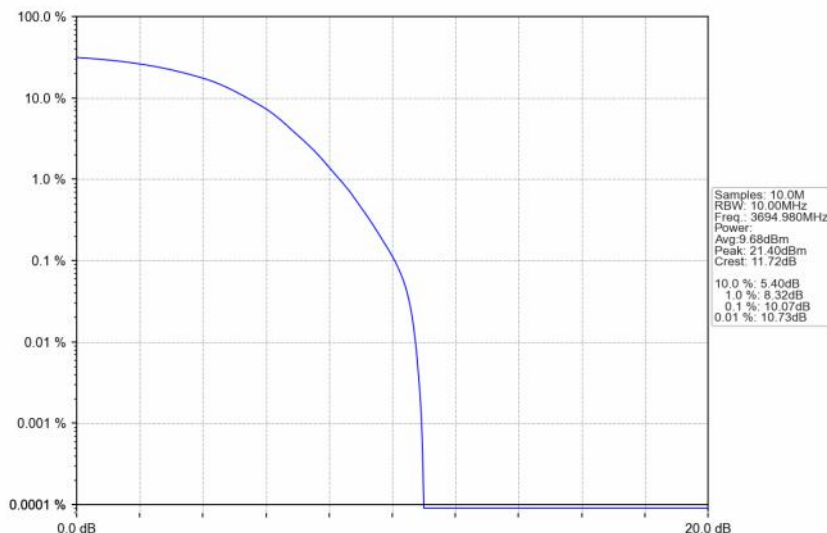
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n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 64 QAM_3624.99MHz_Outer_Full



n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 64 QAM_3694.98MHz_Outer_Full

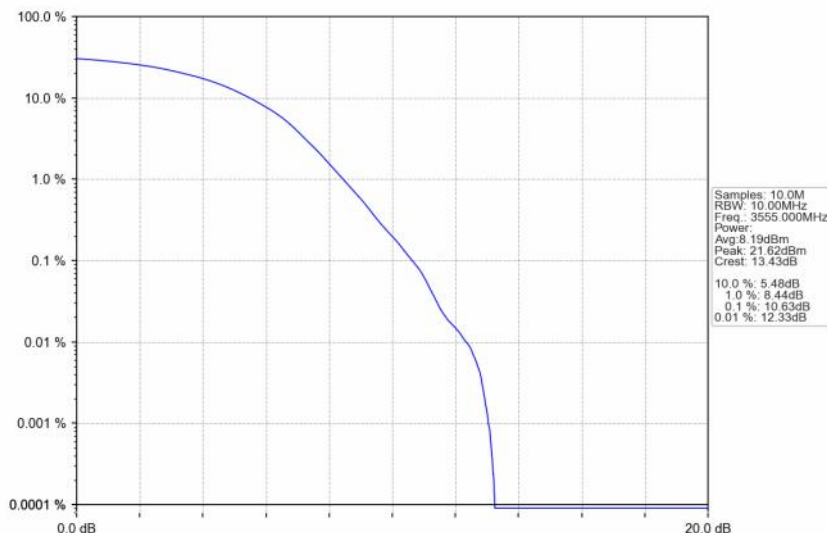


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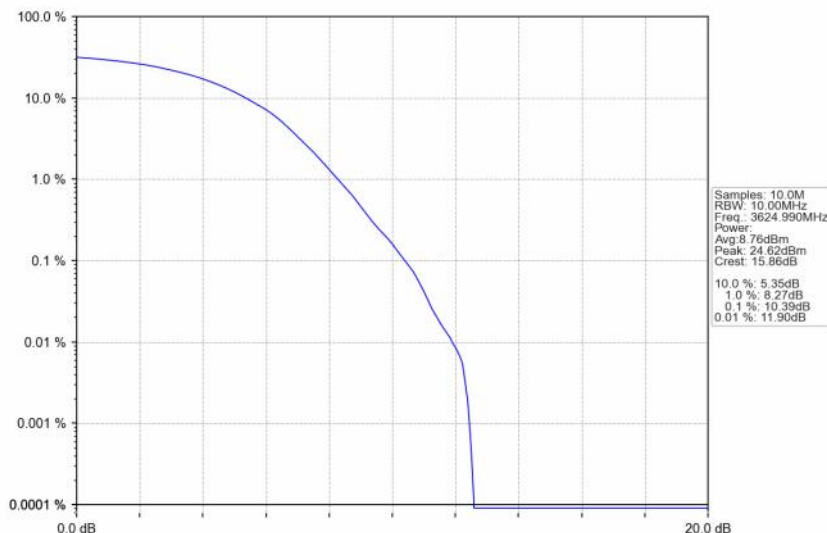
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n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_256_QAM_3624.99MHz_Outer_Full

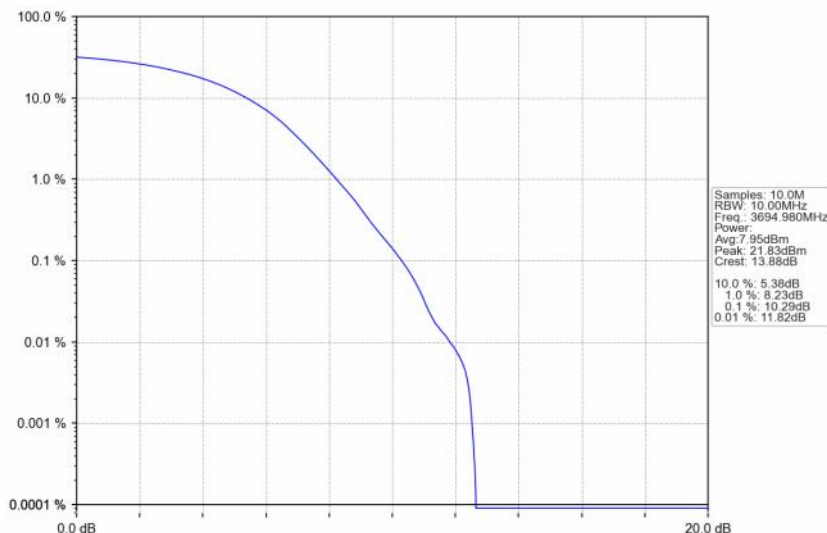


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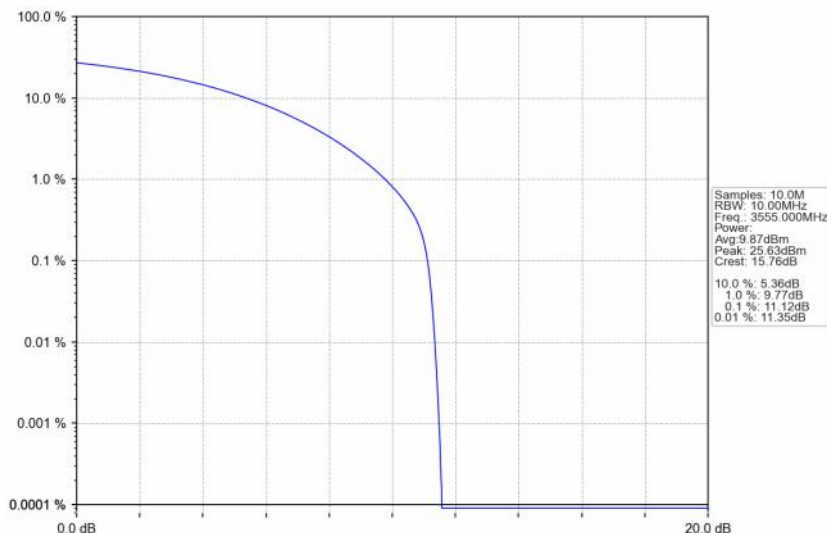
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n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 256 QAM_3694.98MHz_Outer_Full



n48_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_3555MHz_Outer_Full

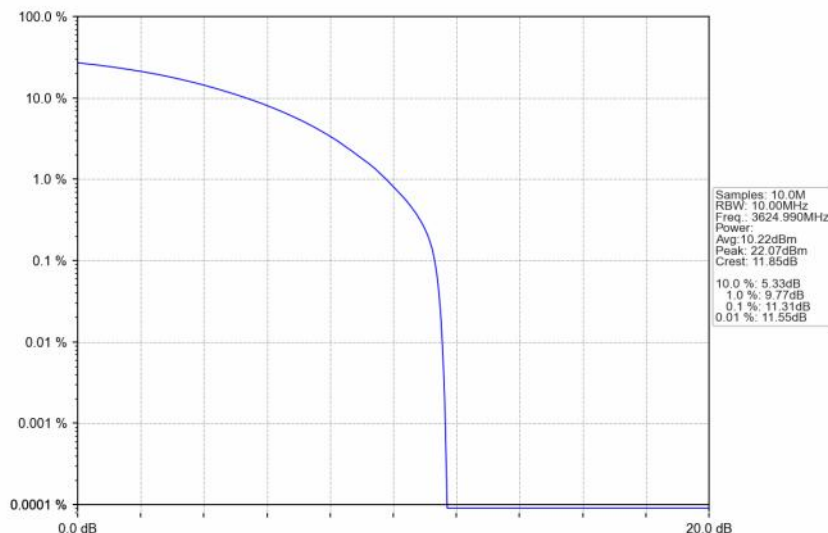


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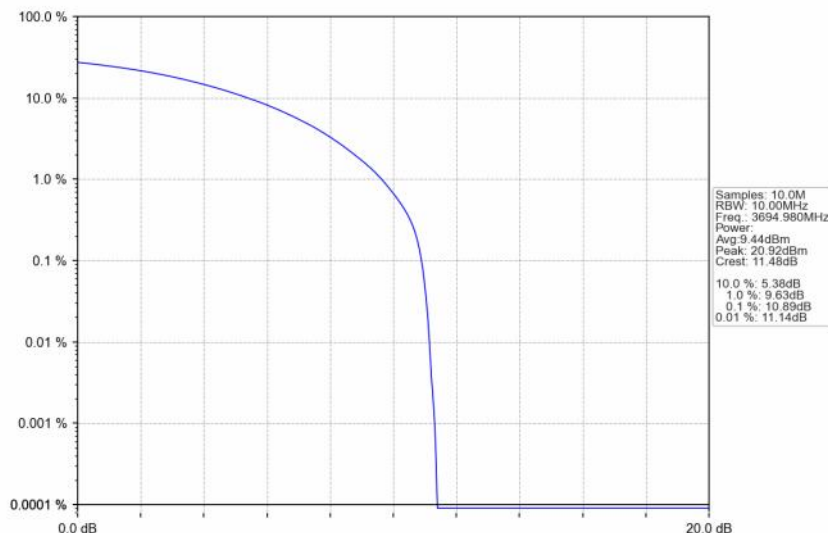
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n48_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_3624.99MHz_Outer_Full



n48_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_3694.98MHz_Outer_Full

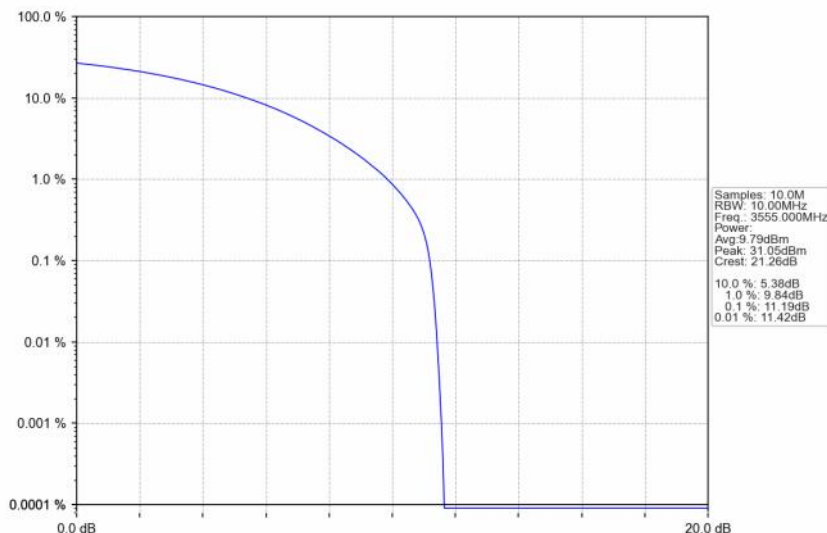


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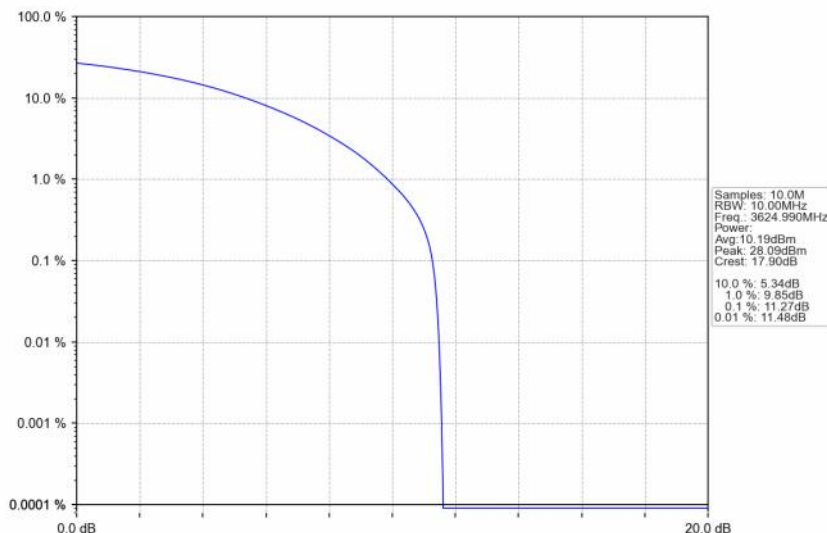
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n48_30kHz_SISO_NTNV_10MHz_CP-OFDM 16 QAM_3555MHz_Outer_Full



n48_30kHz_SISO_NTNV_10MHz_CP-OFDM 16 QAM_3624.99MHz_Outer_Full

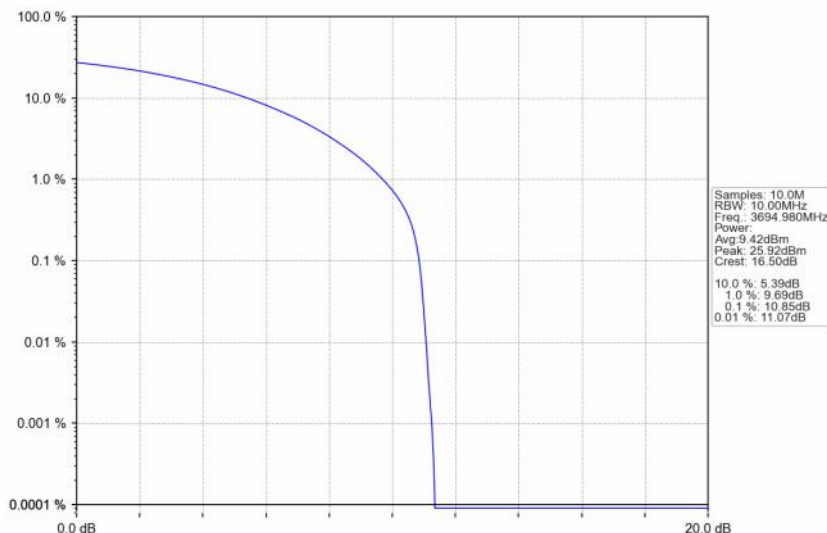


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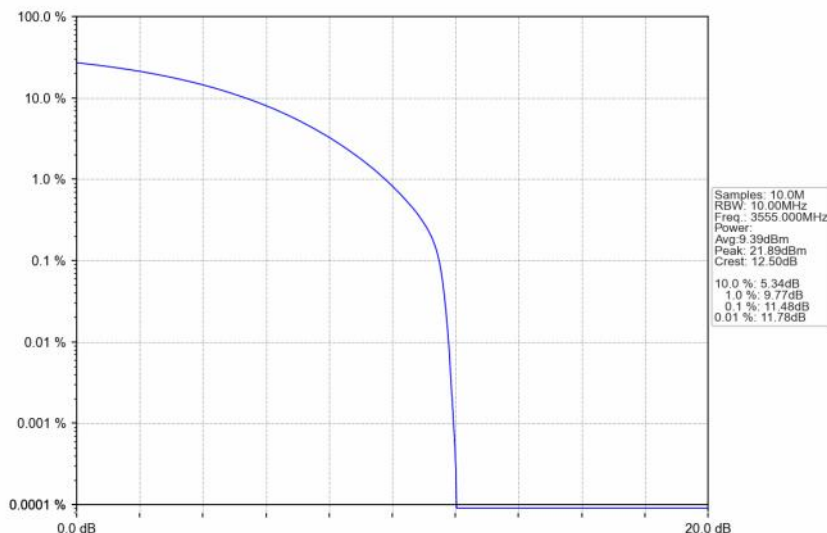
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n48_30kHz_SISO_NTNV_10MHz_CP-OFDM 16 QAM_3694.98MHz_Outer_Full



n48_30kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_3555MHz_Outer_Full

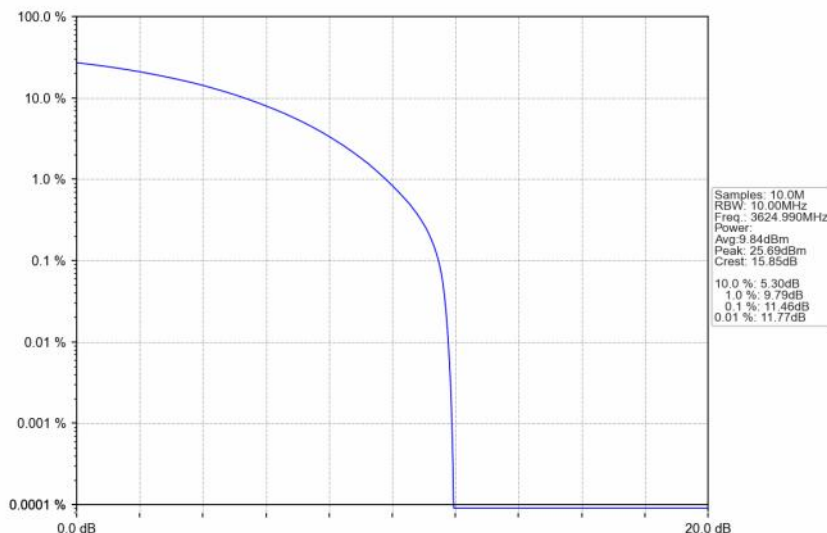


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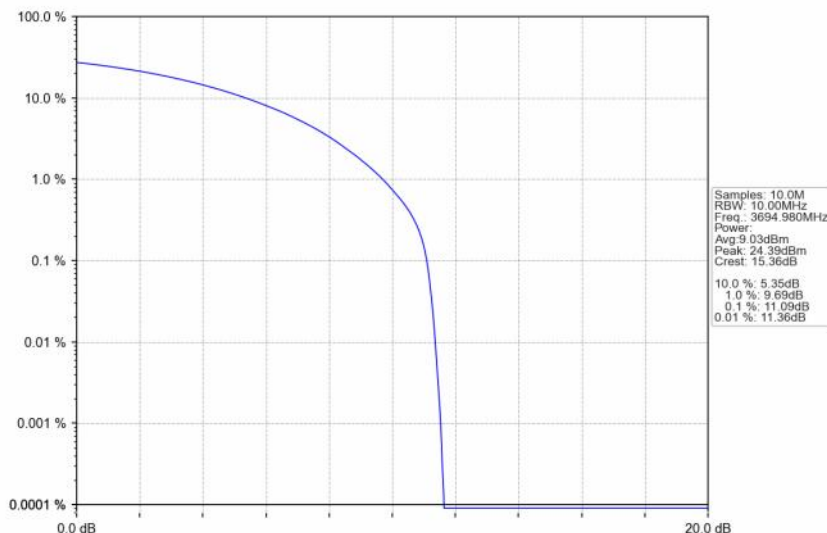
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n48_30kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_3624.99MHz_Outer_Full



n48_30kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_3694.98MHz_Outer_Full

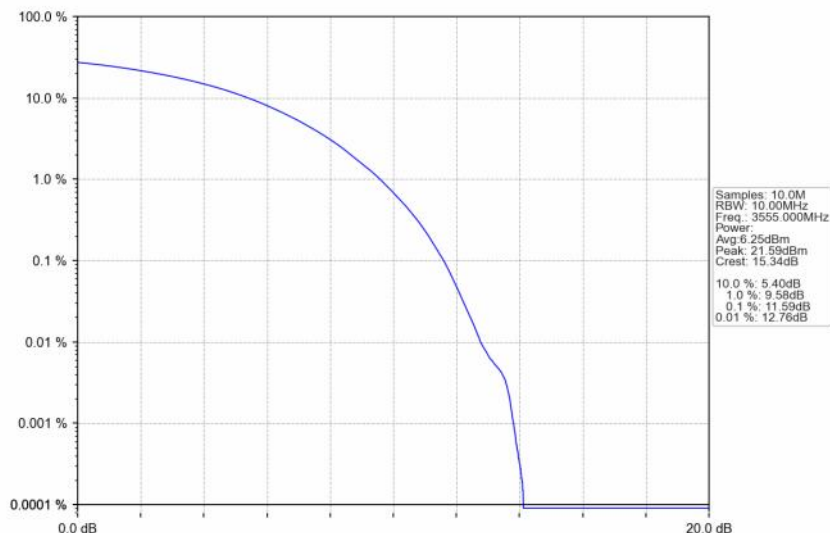


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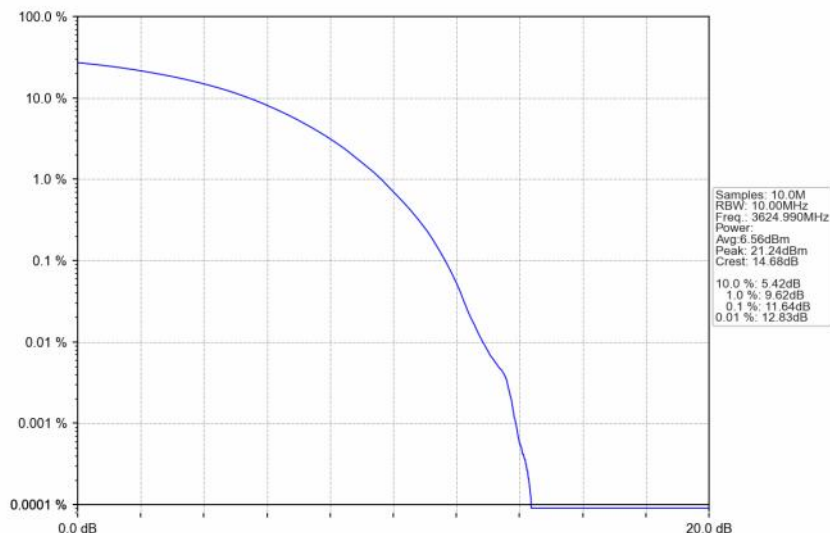
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n48_30kHz_SISO_NTNV_10MHz_CP-OFDM 256 QAM_3555MHz_Outer_Full



n48_30kHz_SISO_NTNV_10MHz_CP-OFDM 256 QAM_3624.99MHz_Outer_Full

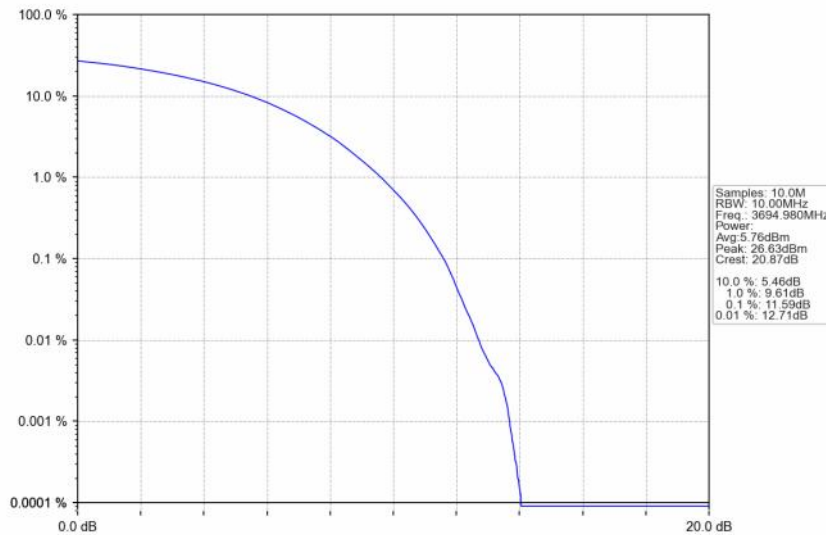


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n48_30kHz_SISO_NTNV_10MHz_CP-OFDM 256 QAM_3694.98MHz_Outer_Full



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6.2 30k_SISO_20MHz_NTNV

6.2.1 Test Result

5G NR n48 SCS=30kHz SISO 20MHz NTNv							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3560.01	Outer_Full	8.13	/	/	<=13	Pass
	3624.99	Outer_Full	7.85	/	/	<=13	Pass
	3690	Outer_Full	8.03	/	/	<=13	Pass
DFT-s-OFDM QPSK	3560.01	Outer_Full	9.21	/	/	<=13	Pass
	3624.99	Outer_Full	8.69	/	/	<=13	Pass
	3690	Outer_Full	9.02	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3560.01	Outer_Full	10.16	/	/	<=13	Pass
	3624.99	Outer_Full	9.91	/	/	<=13	Pass
	3690	Outer_Full	9.76	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3560.01	Outer_Full	10.17	/	/	<=13	Pass
	3624.99	Outer_Full	10.03	/	/	<=13	Pass
	3690	Outer_Full	10.02	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3560.01	Outer_Full	10.56	/	/	<=13	Pass
	3624.99	Outer_Full	9.88	/	/	<=13	Pass
	3690	Outer_Full	10.23	/	/	<=13	Pass
CP-OFDM QPSK	3560.01	Outer_Full	11.00	/	/	<=13	Pass
	3624.99	Outer_Full	11.12	/	/	<=13	Pass
	3690	Outer_Full	10.63	/	/	<=13	Pass
CP-OFDM 16 QAM	3560.01	Outer_Full	11.06	/	/	<=13	Pass
	3624.99	Outer_Full	10.89	/	/	<=13	Pass
	3690	Outer_Full	11.34	/	/	<=13	Pass
CP-OFDM 64 QAM	3560.01	Outer_Full	11.12	/	/	<=13	Pass
	3624.99	Outer_Full	11.30	/	/	<=13	Pass
	3690	Outer_Full	11.56	/	/	<=13	Pass
CP-OFDM 256 QAM	3560.01	Outer_Full	11.96	/	/	<=13	Pass
	3624.99	Outer_Full	11.79	/	/	<=13	Pass
	3690	Outer_Full	11.65	/	/	<=13	Pass

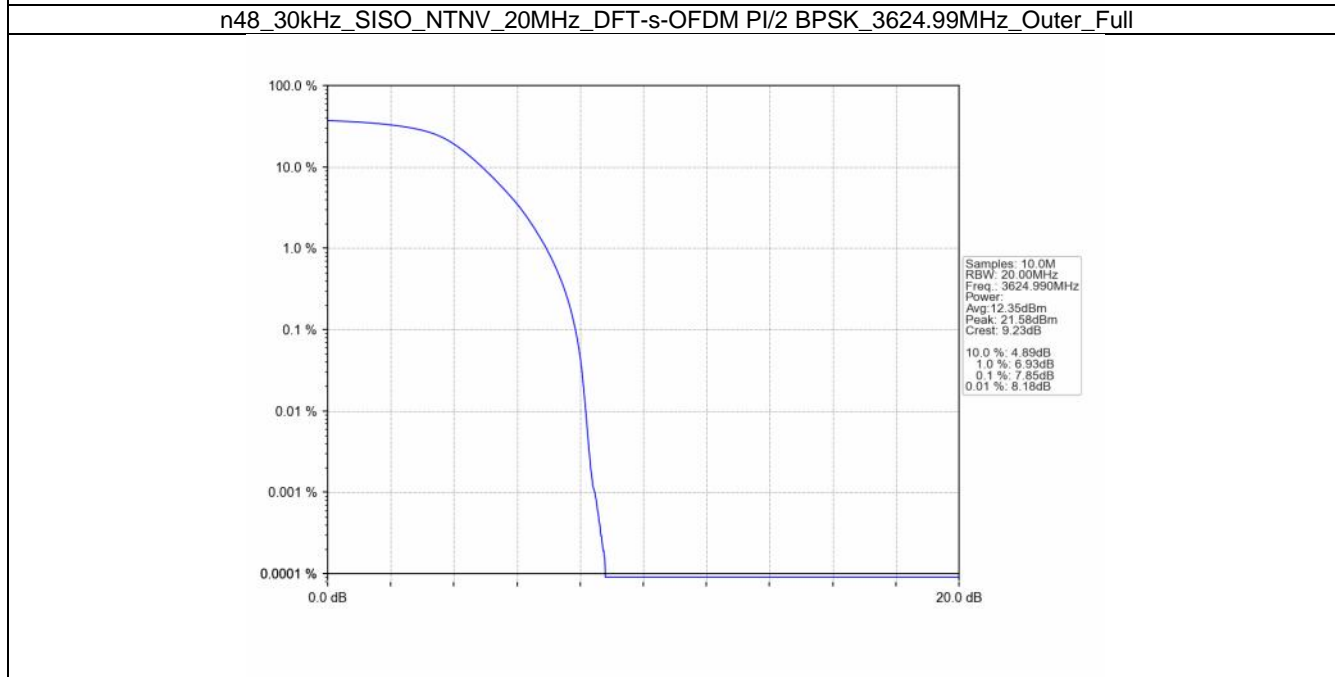
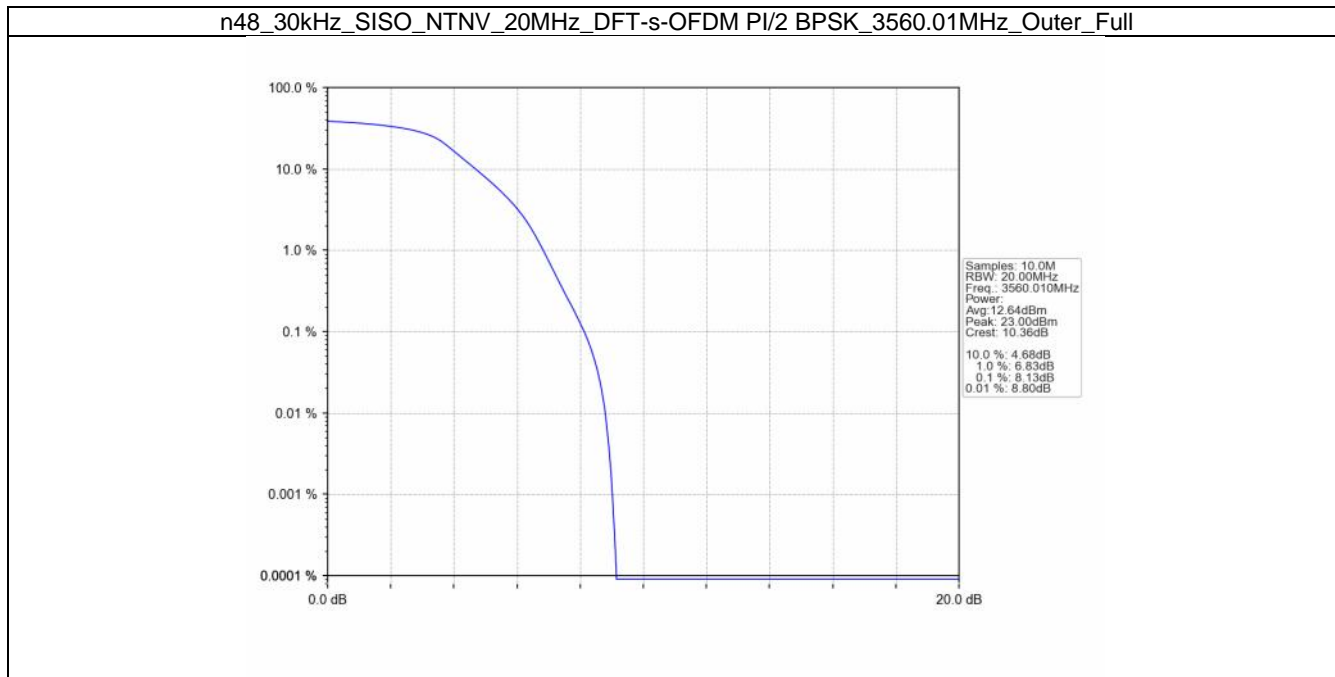


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6.2.2 Test Graph

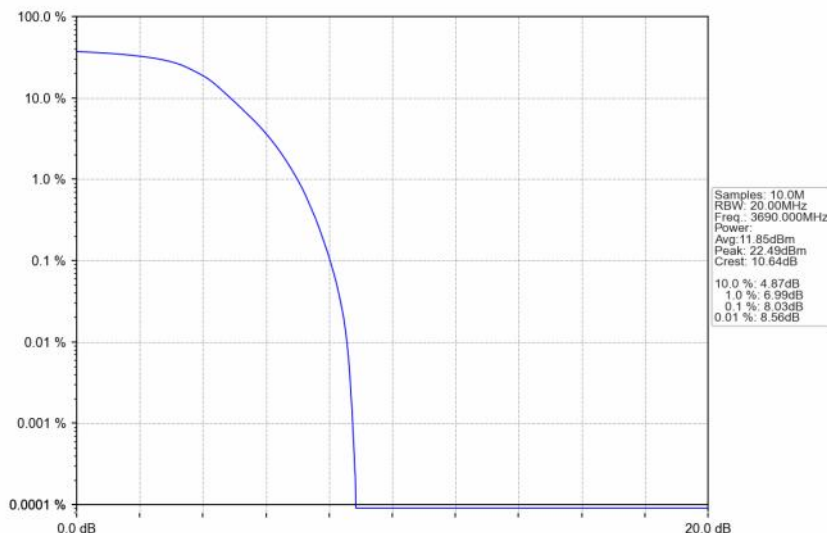


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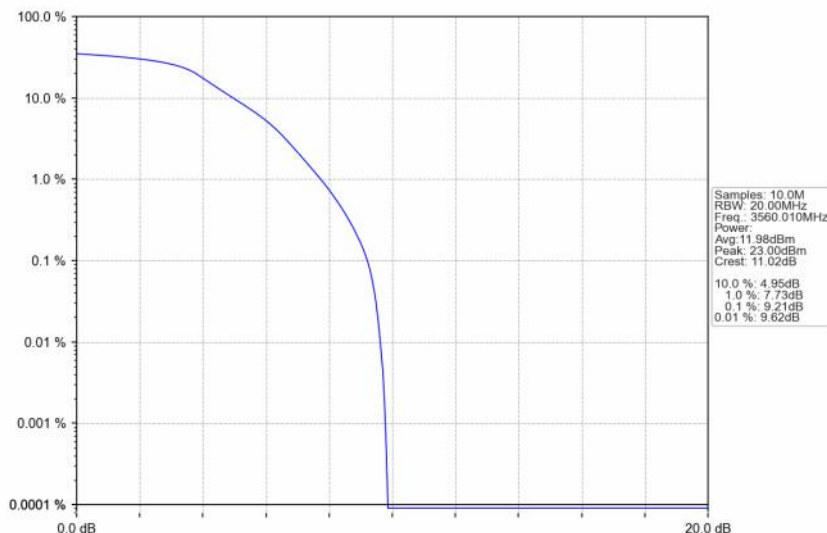
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n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_3690MHz_Outer_Full



n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_3560.01MHz_Outer_Full

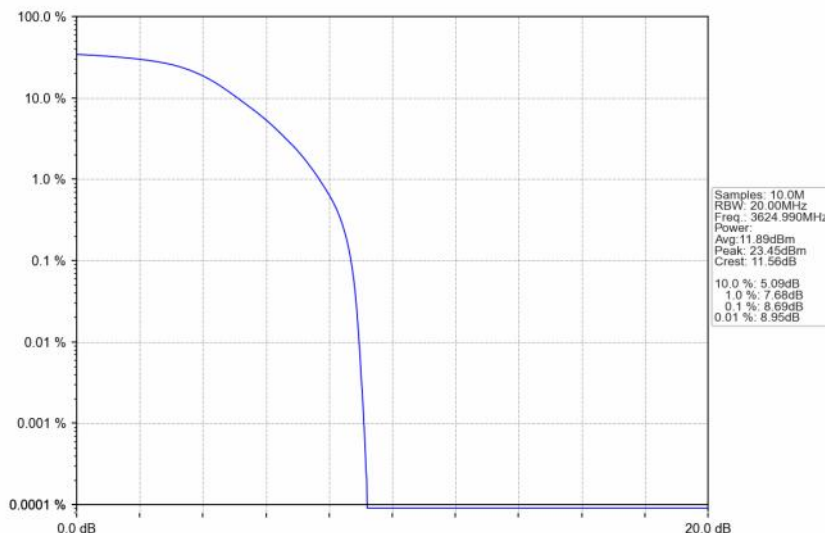


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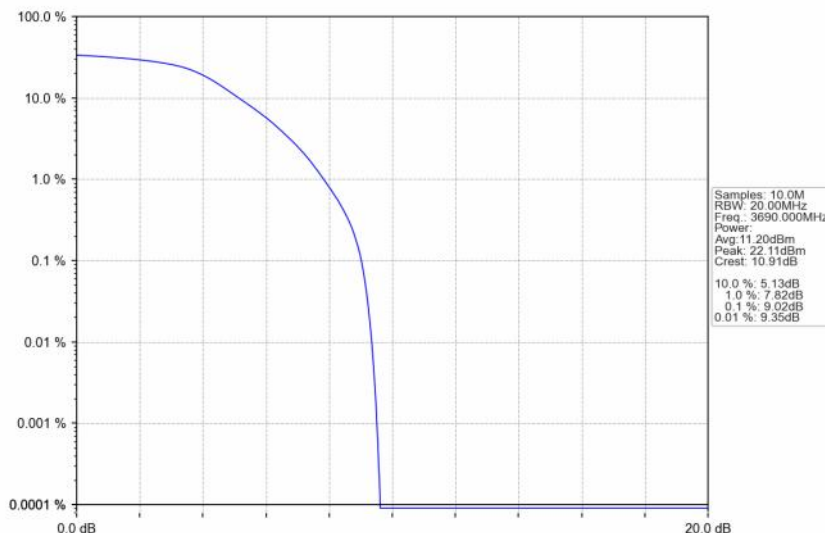
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n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_3624.99MHz_Outer_Full



n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_3690MHz_Outer_Full

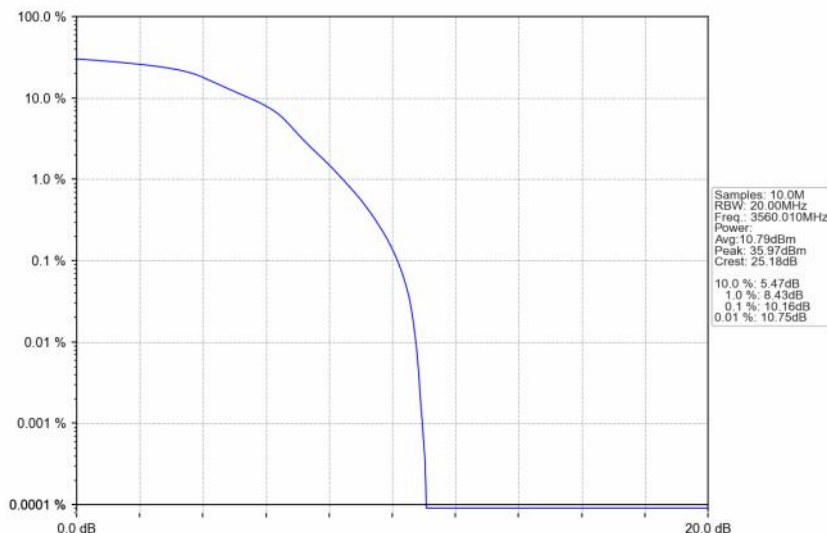


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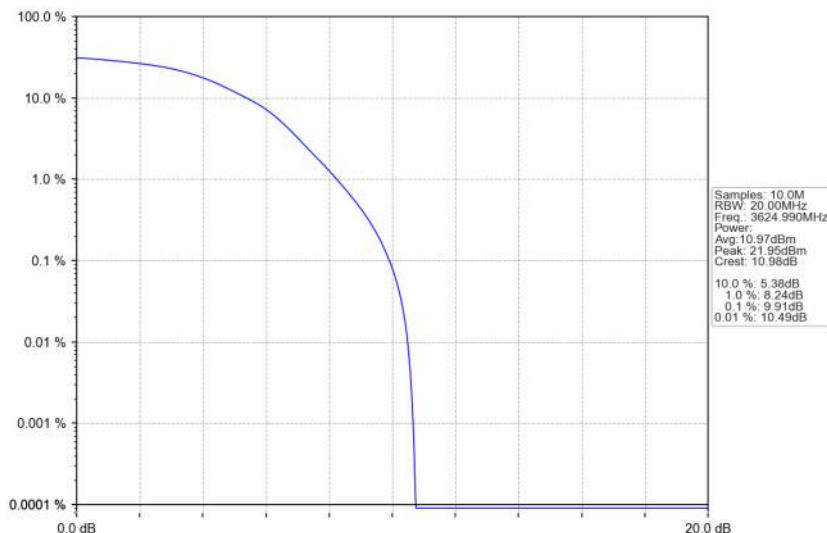
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n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_16_QAM_3624.99MHz_Outer_Full

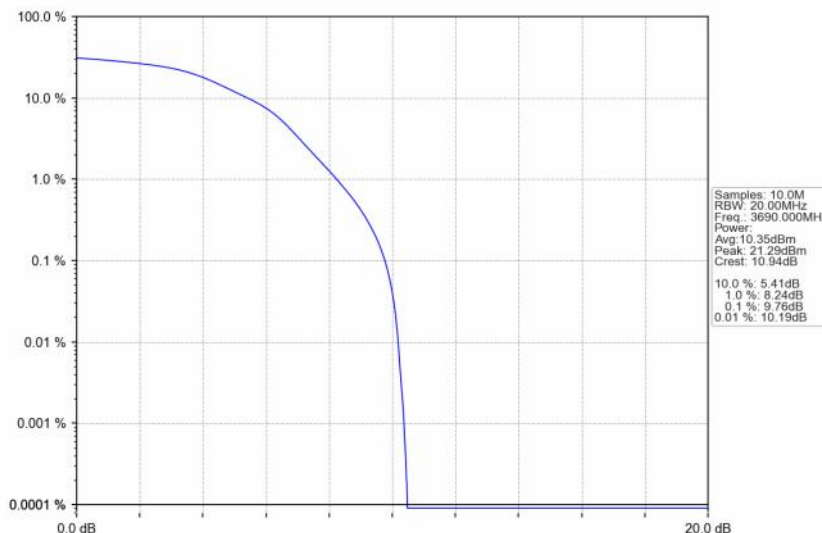


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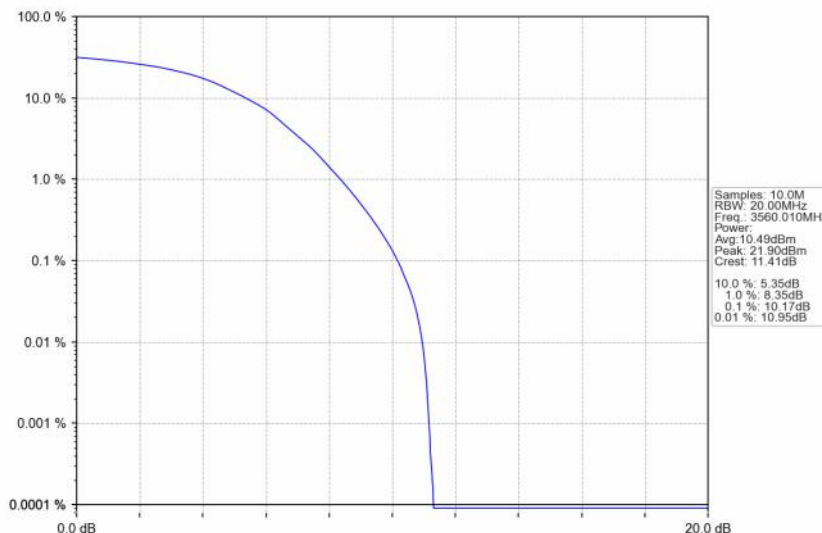
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n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 16 QAM_3690MHz_Outer_Full



n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 64 QAM_3560.01MHz_Outer_Full

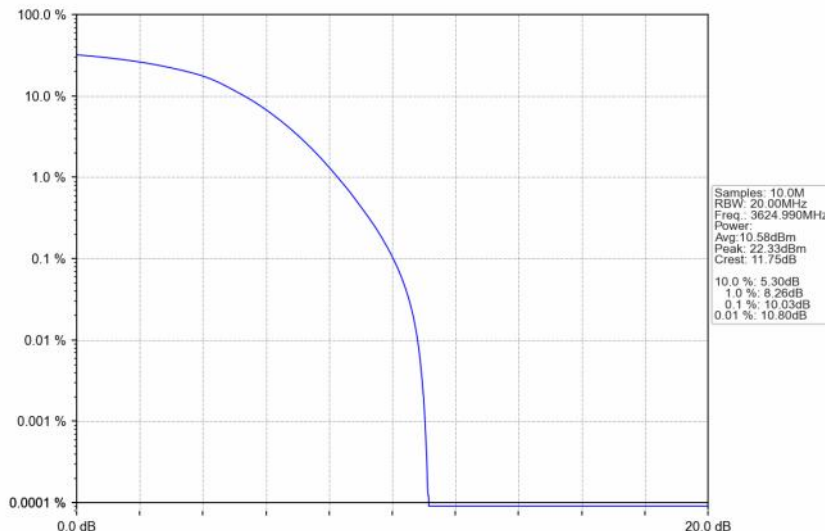


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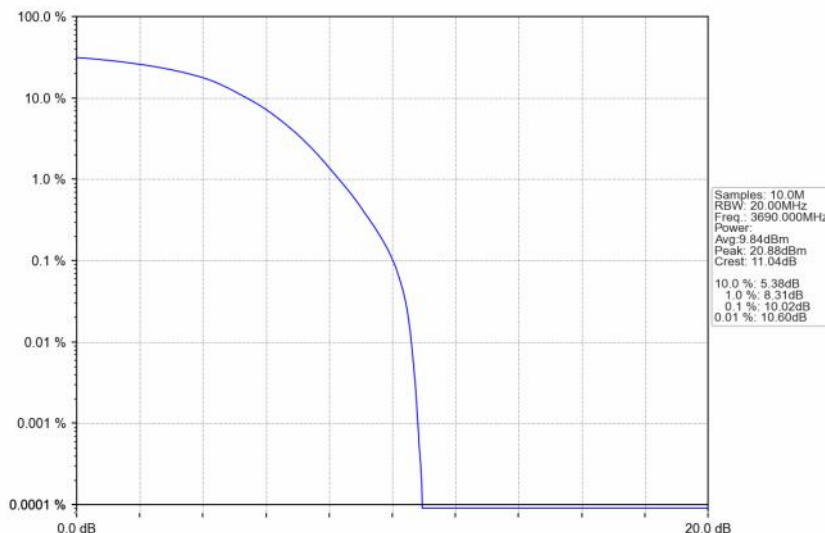
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n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 64 QAM_3624.99MHz_Outer_Full



n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 64 QAM_3690MHz_Outer_Full

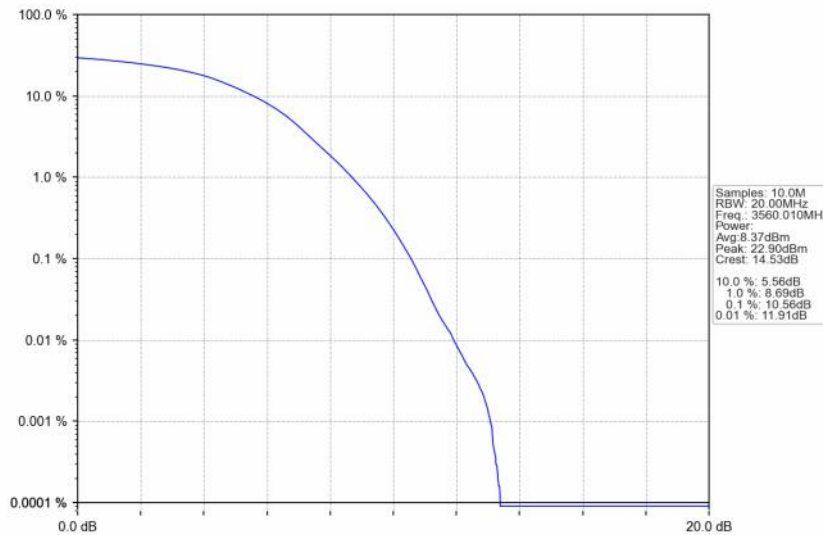


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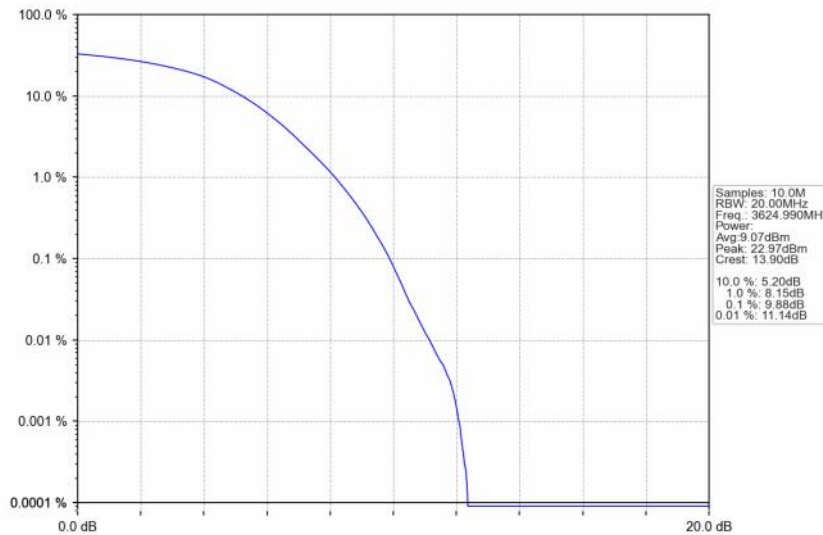
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n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 256 QAM_3560.01MHz_Outer_Full



n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 256 QAM_3624.99MHz_Outer_Full

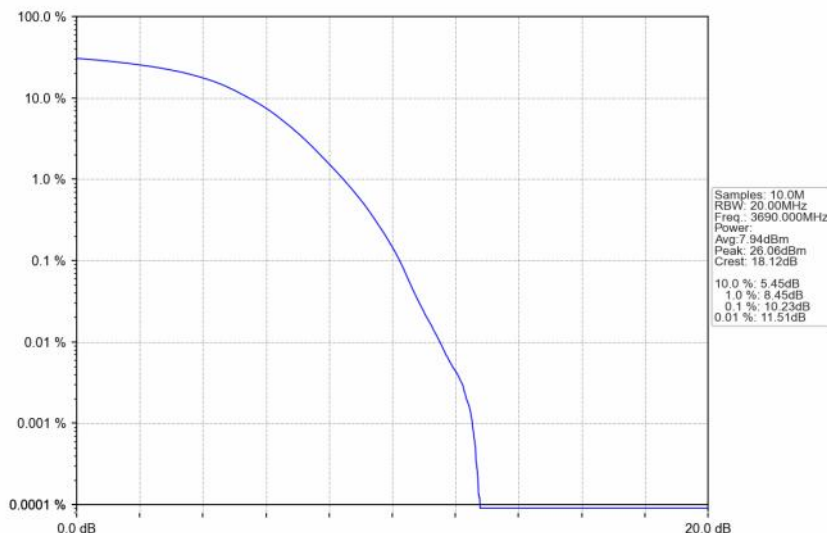


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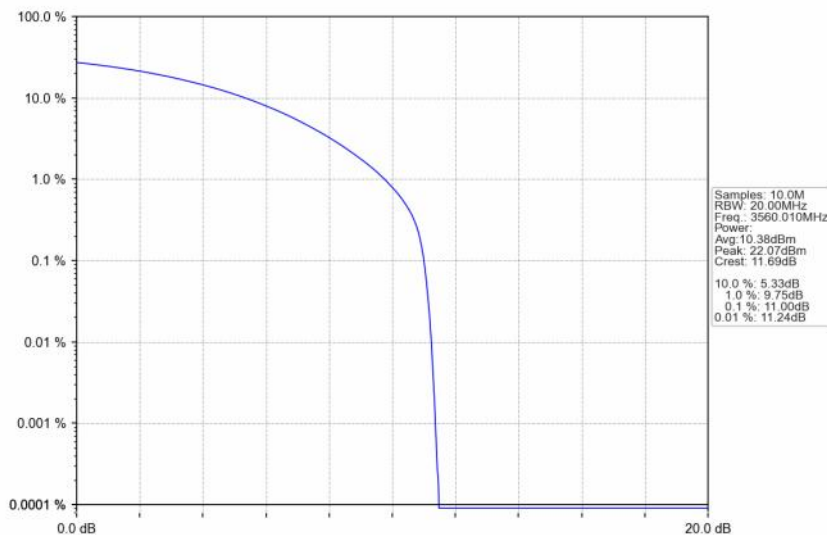
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n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 256 QAM_3690MHz_Outer_Full



n48_30kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_3560.01MHz_Outer_Full

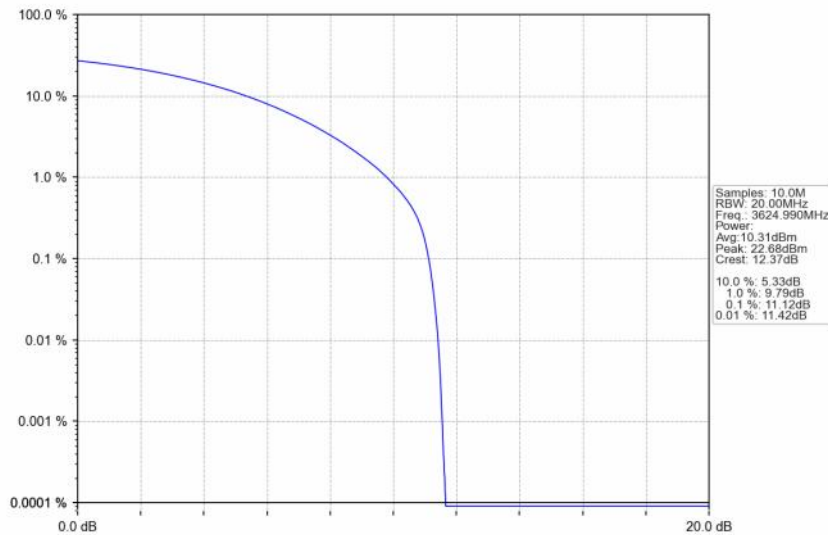


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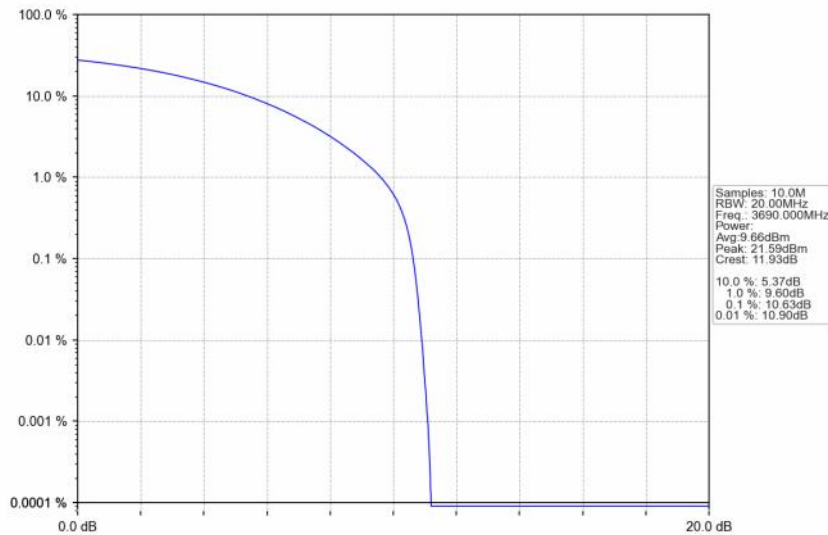
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n48_30kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_3624.99MHz_Outer_Full



n48_30kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_3690MHz_Outer_Full

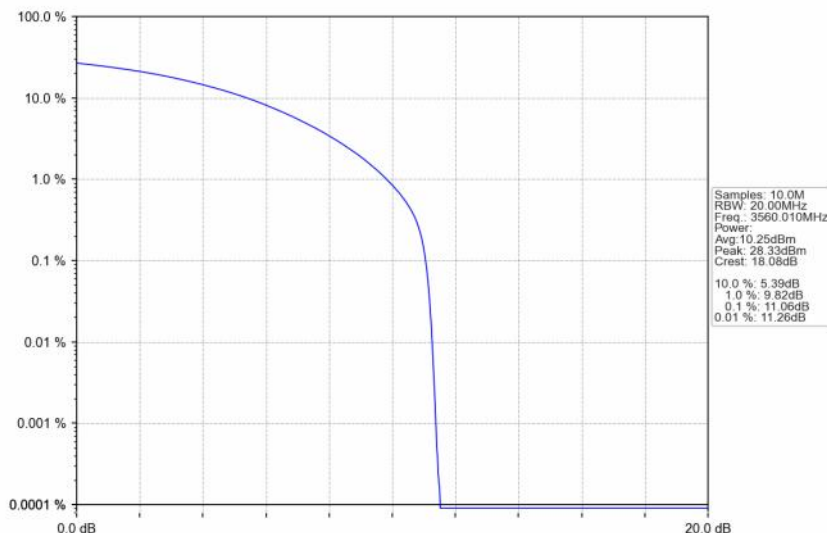


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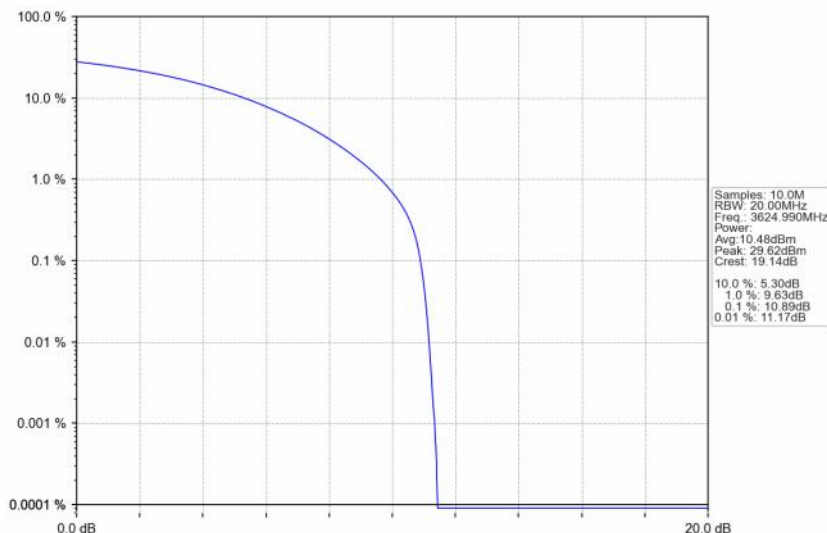
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n48_30kHz_SISO_NTNV_20MHz_CP-OFDM 16 QAM_3560.01MHz_Outer_Full



n48_30kHz_SISO_NTNV_20MHz_CP-OFDM 16 QAM_3624.99MHz_Outer_Full

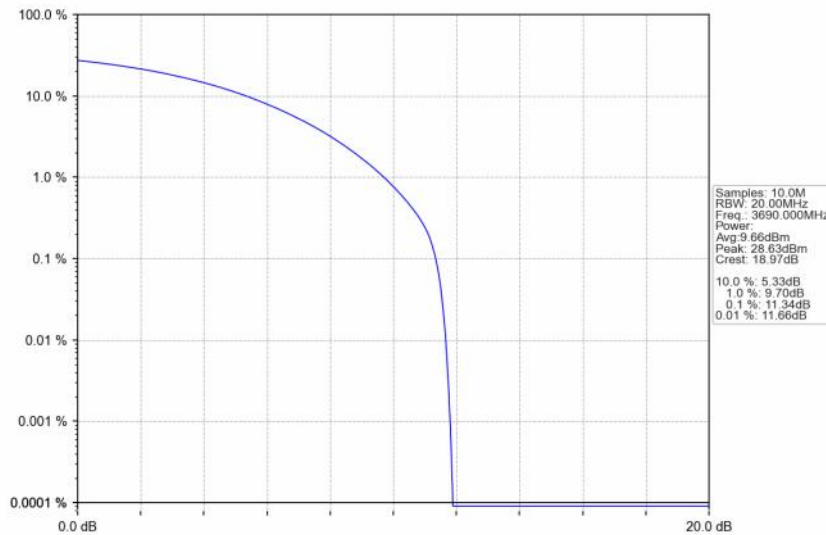


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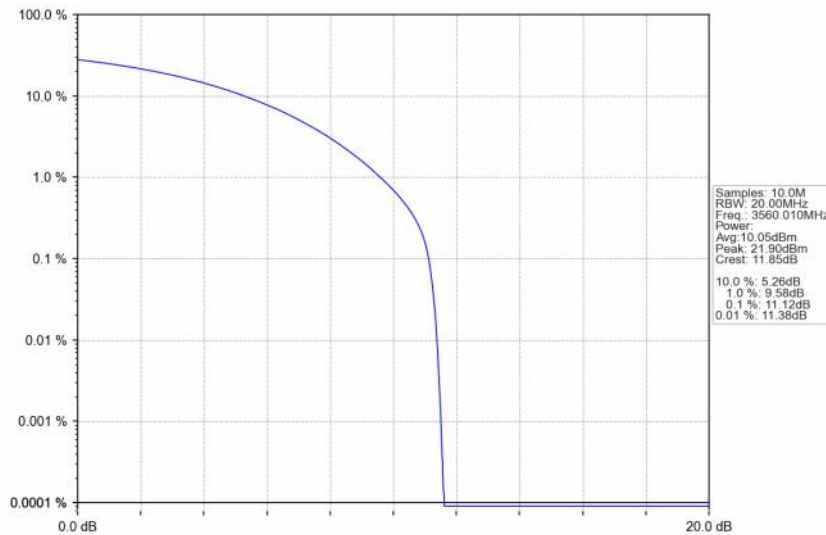
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n48_30kHz_SISO_NTNV_20MHz_CP-OFDM 64 QAM_3560.01MHz_Outer_Full

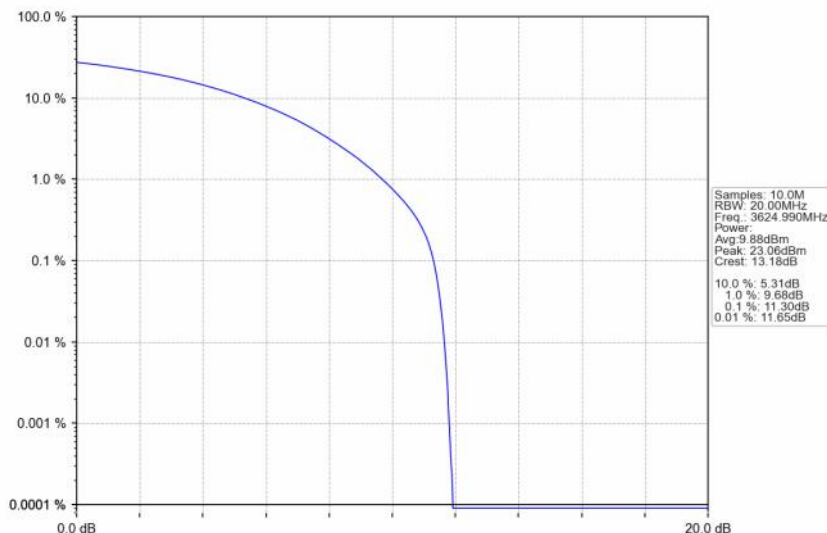


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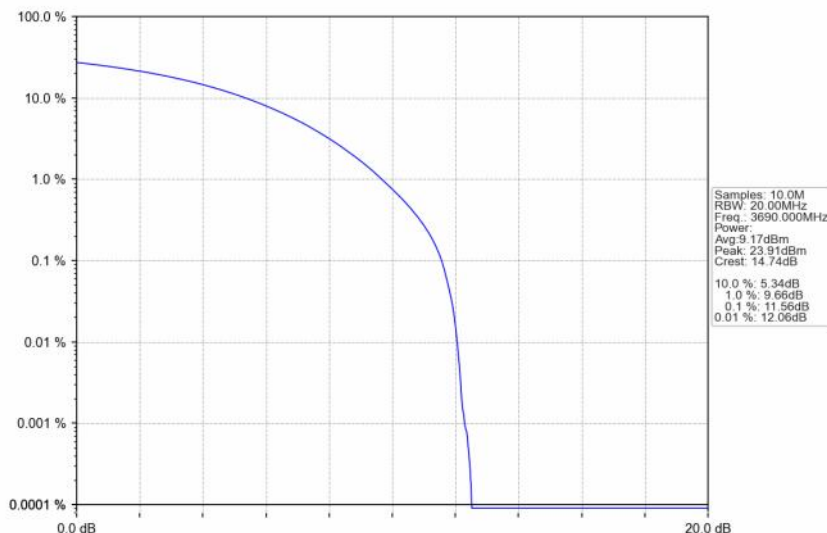
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n48_30kHz_SISO_NTNV_20MHz_CP-OFDM 64 QAM_3624.99MHz_Outer_Full



n48_30kHz_SISO_NTNV_20MHz_CP-OFDM 64 QAM_3690MHz_Outer_Full

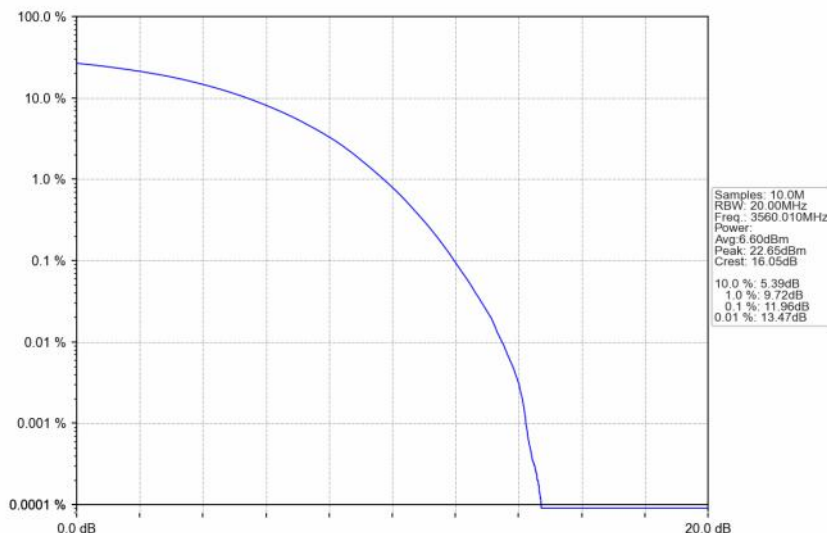


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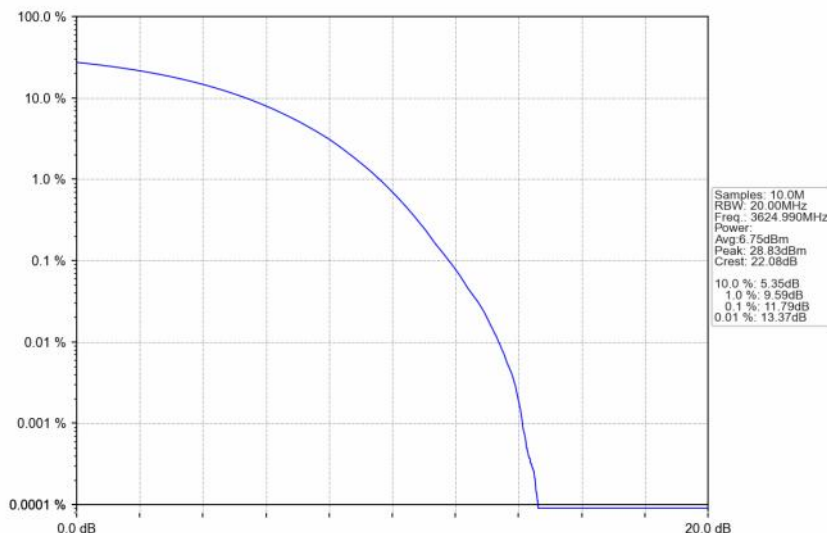
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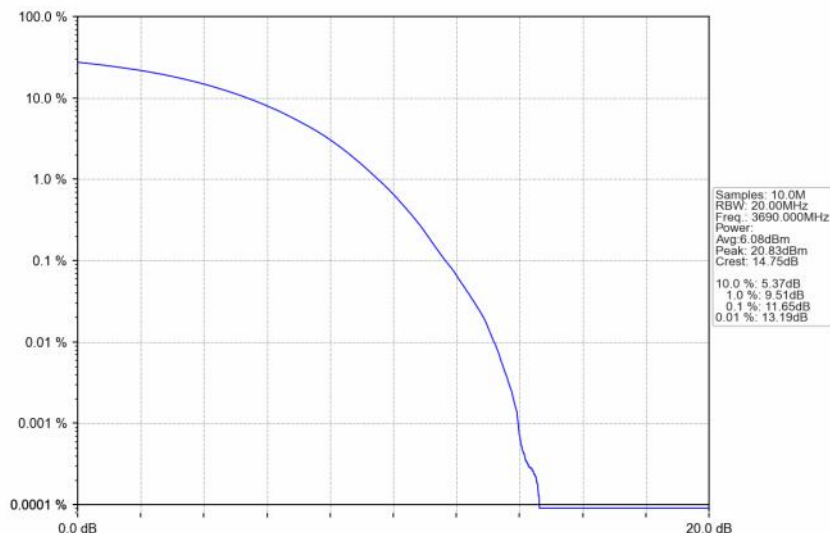


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n48_30kHz_SISO_NTNV_20MHz_CP-OFDM 256 QAM_3690MHz_Outer_Full



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6.3 30k_SISO_30MHz_NTNV

6.3.1 Test Result

5G NR n48 SCS=30kHz SISO 30MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3565.02	Outer_Full	8.21	/	/	<=13	Pass
	3624.99	Outer_Full	7.86	/	/	<=13	Pass
	3684.99	Outer_Full	8.01	/	/	<=13	Pass
DFT-s-OFDM QPSK	3565.02	Outer_Full	9.28	/	/	<=13	Pass
	3624.99	Outer_Full	8.72	/	/	<=13	Pass
	3684.99	Outer_Full	8.92	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3565.02	Outer_Full	9.72	/	/	<=13	Pass
	3624.99	Outer_Full	9.69	/	/	<=13	Pass
	3684.99	Outer_Full	9.93	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3565.02	Outer_Full	10.44	/	/	<=13	Pass
	3624.99	Outer_Full	10.11	/	/	<=13	Pass
	3684.99	Outer_Full	10.38	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3565.02	Outer_Full	10.22	/	/	<=13	Pass
	3624.99	Outer_Full	10.08	/	/	<=13	Pass
	3684.99	Outer_Full	9.76	/	/	<=13	Pass
CP-OFDM QPSK	3565.02	Outer_Full	12.00	/	/	<=13	Pass
	3624.99	Outer_Full	11.22	/	/	<=13	Pass
	3684.99	Outer_Full	11.32	/	/	<=13	Pass
CP-OFDM 16 QAM	3565.02	Outer_Full	11.52	/	/	<=13	Pass
	3624.99	Outer_Full	10.99	/	/	<=13	Pass
	3684.99	Outer_Full	11.08	/	/	<=13	Pass
CP-OFDM 64 QAM	3565.02	Outer_Full	12.20	/	/	<=13	Pass
	3624.99	Outer_Full	11.94	/	/	<=13	Pass
	3684.99	Outer_Full	11.35	/	/	<=13	Pass
CP-OFDM 256 QAM	3565.02	Outer_Full	11.70	/	/	<=13	Pass
	3624.99	Outer_Full	11.89	/	/	<=13	Pass
	3684.99	Outer_Full	11.70	/	/	<=13	Pass

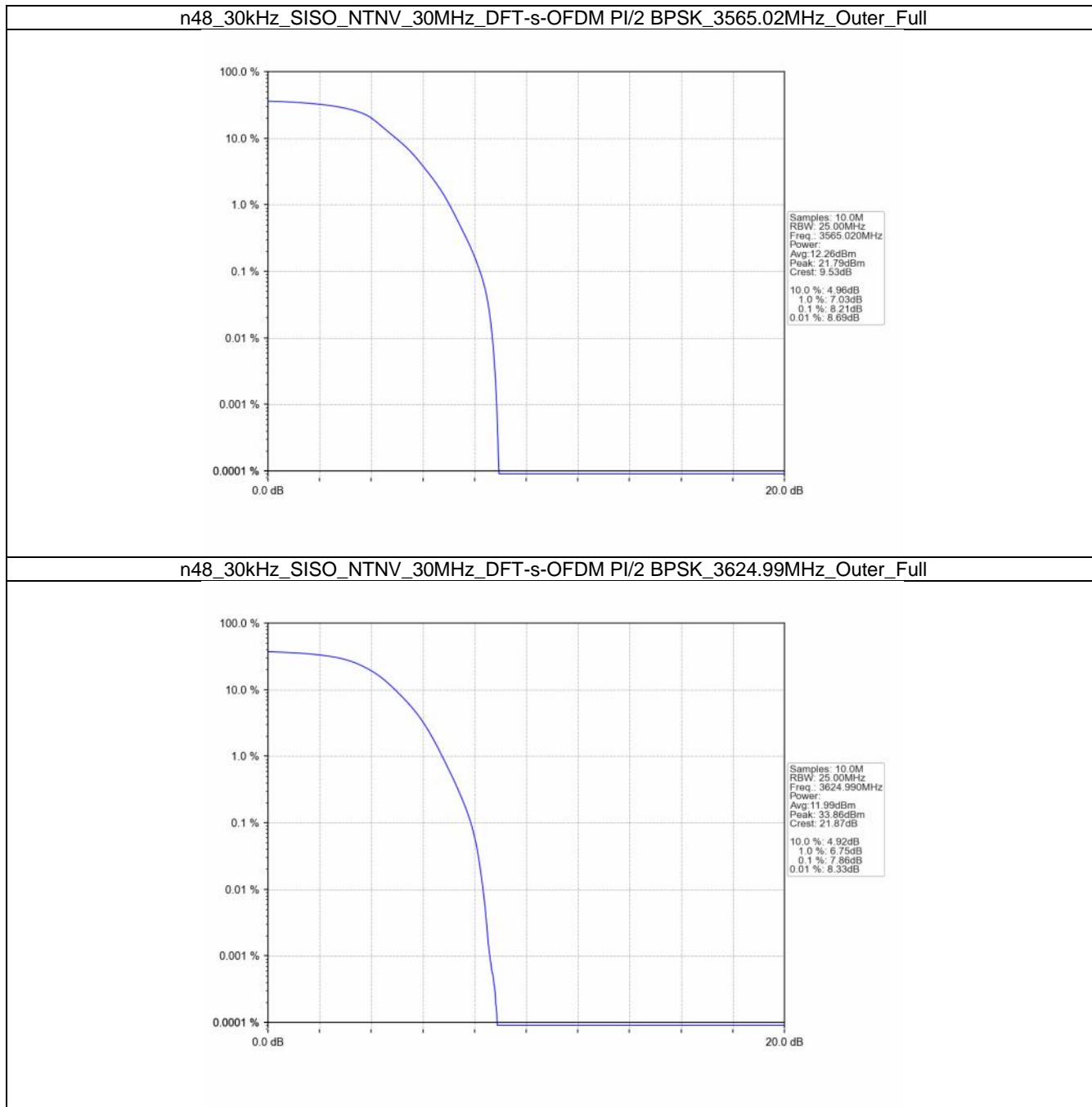


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6.3.2 Test Graph

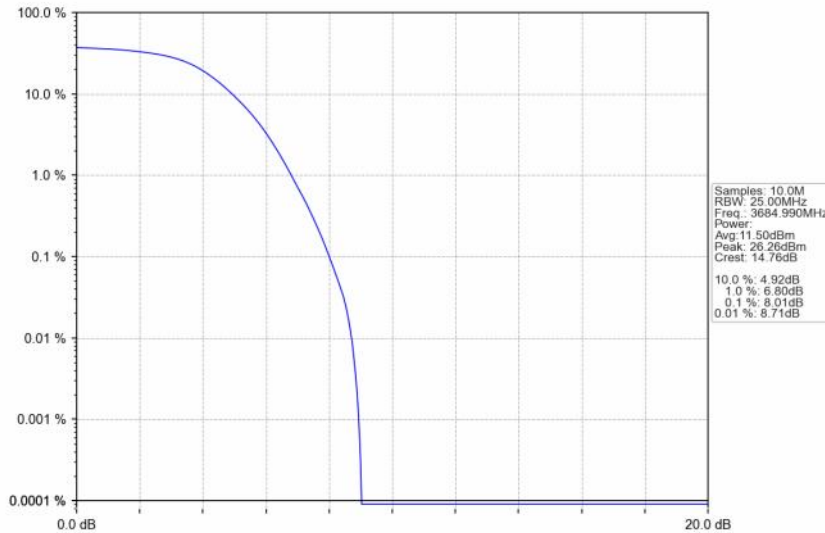


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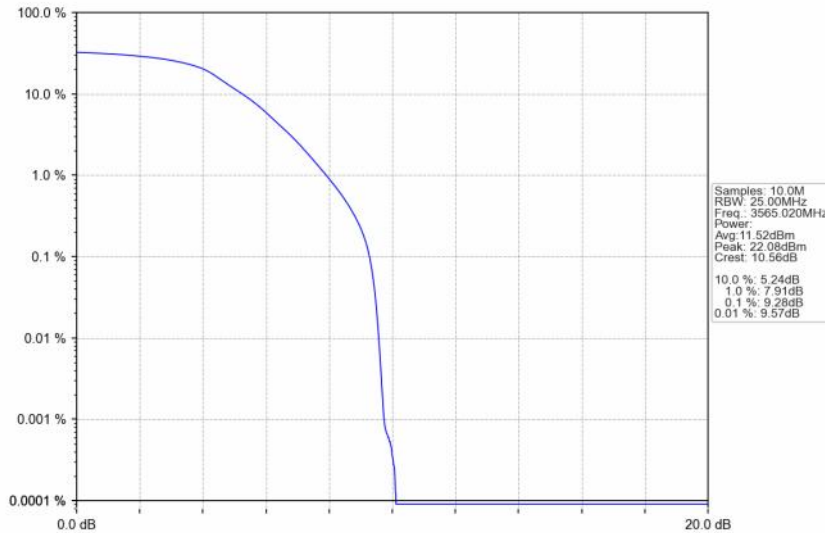
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n48_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM PI/2 BPSK_3684.99MHz_Outer_Full



n48_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM QPSK_3565.02MHz_Outer_Full

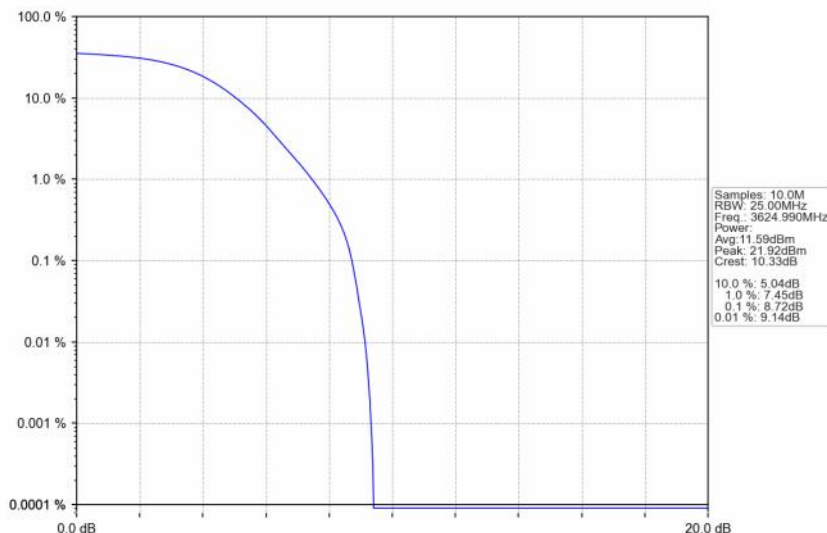


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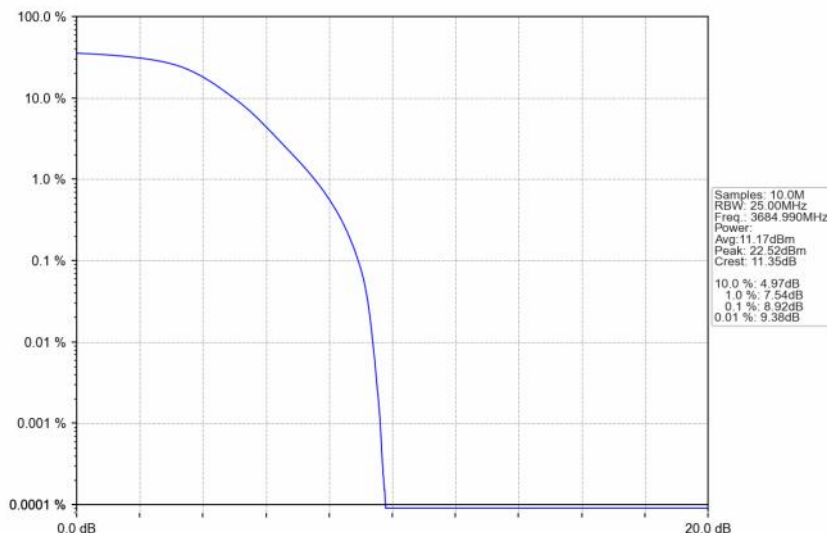
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n48_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM QPSK_3624.99MHz_Outer_Full



n48_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM QPSK_3684.99MHz_Outer_Full

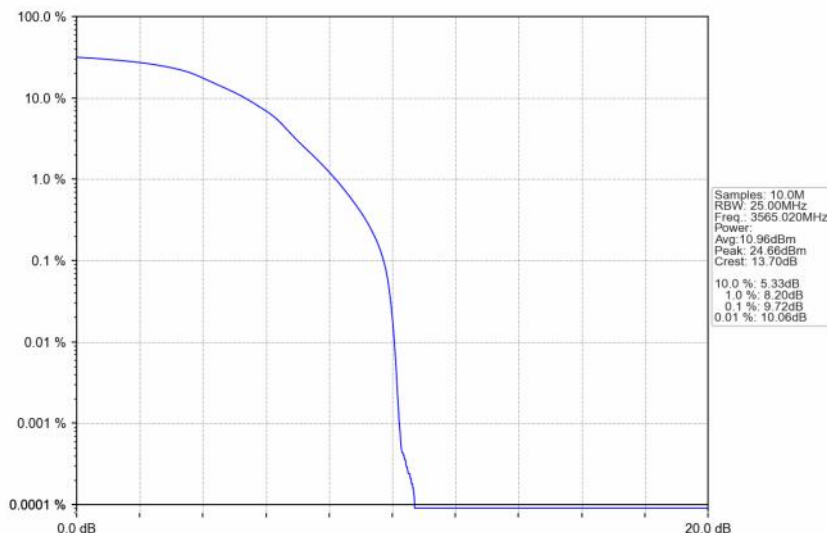


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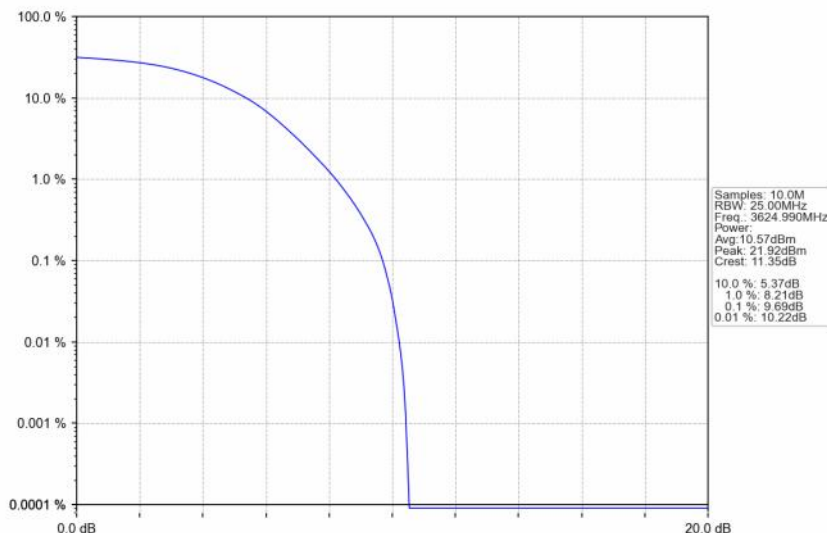
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n48_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_16_QAM_3565.02MHz_Outer_Full



n48_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_16_QAM_3624.99MHz_Outer_Full

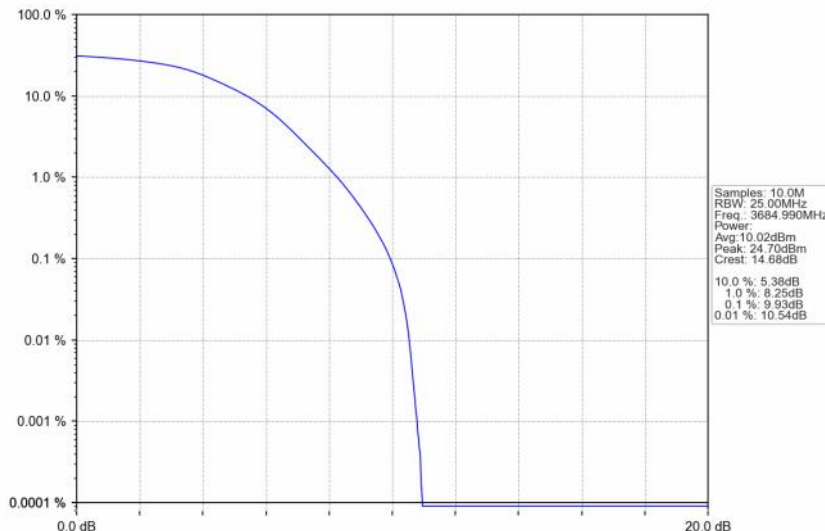


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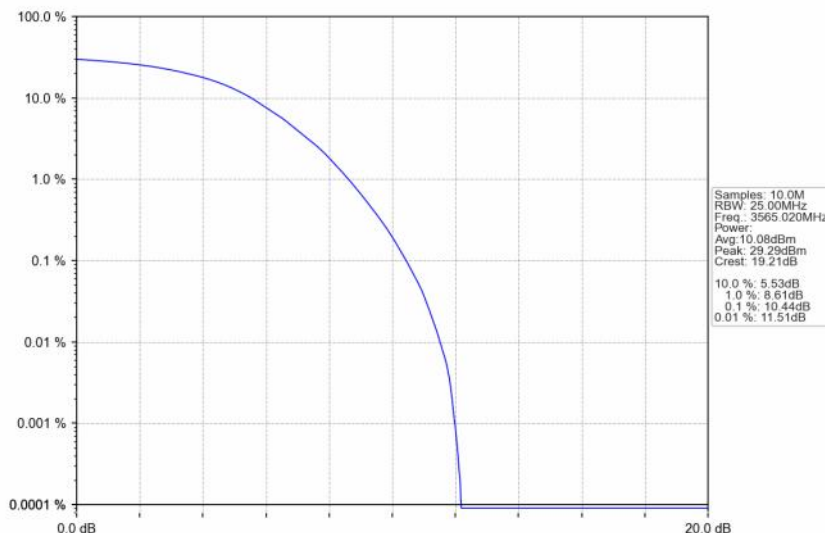
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n48_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM 16 QAM_3684.99MHz_Outer_Full



n48_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM 64 QAM_3565.02MHz_Outer_Full



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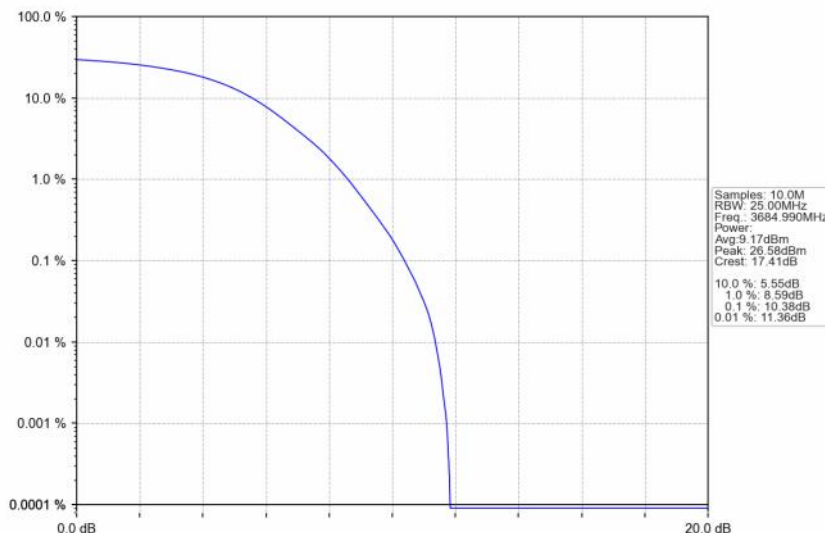
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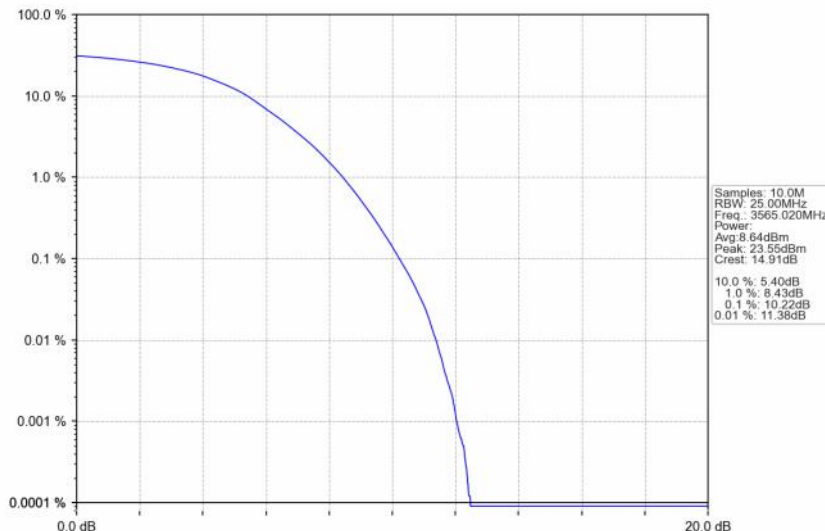


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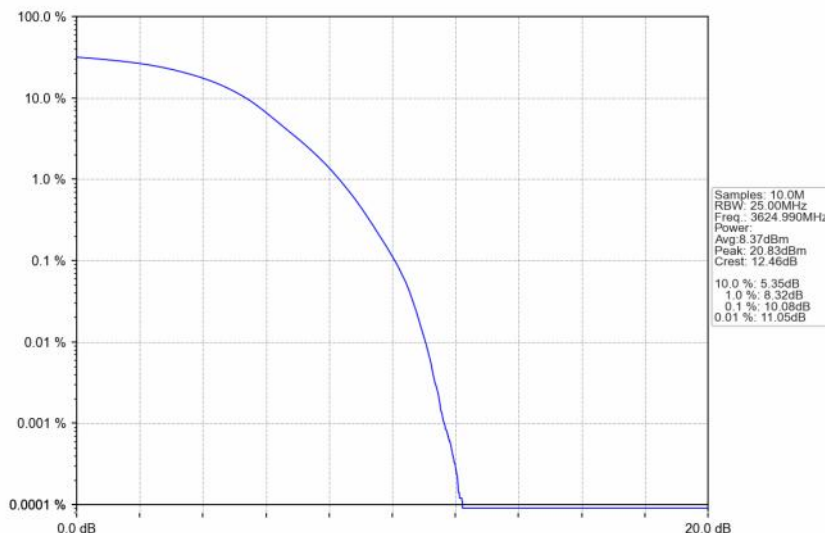
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n48_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_256_QAM_3565.02MHz_Outer_Full



n48_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_256_QAM_3624.99MHz_Outer_Full

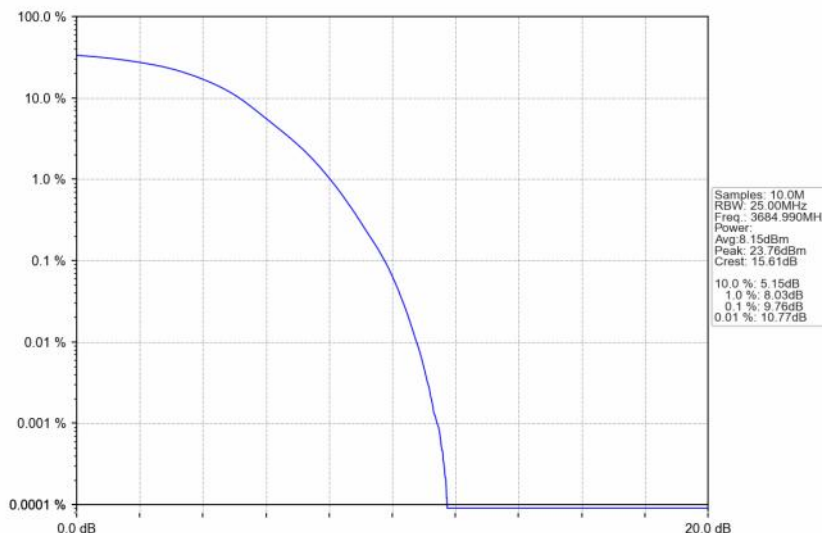


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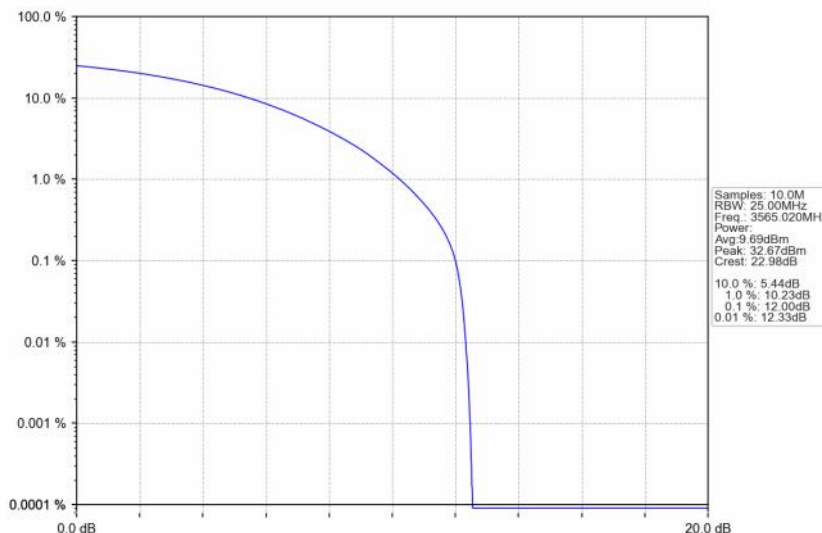
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n48_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM 256 QAM_3684.99MHz_Outer_Full



n48_30kHz_SISO_NTNV_30MHz_CP-OFDM QPSK_3565.02MHz_Outer_Full

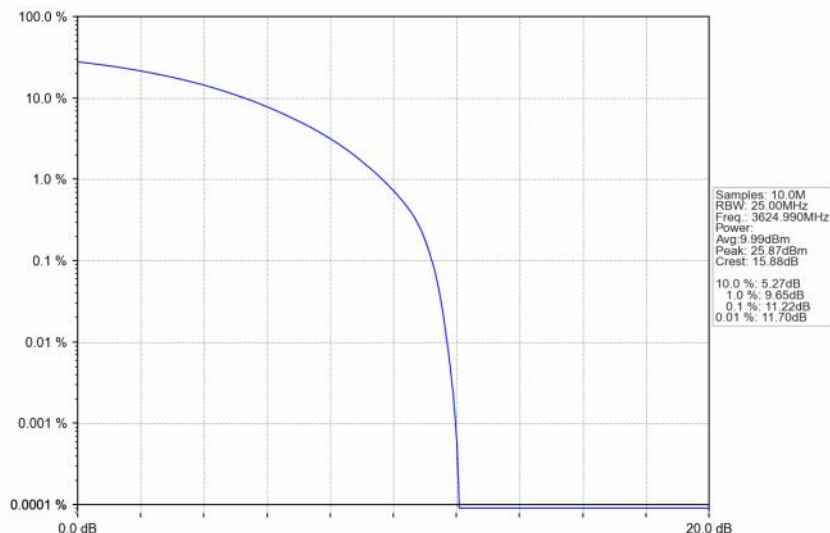


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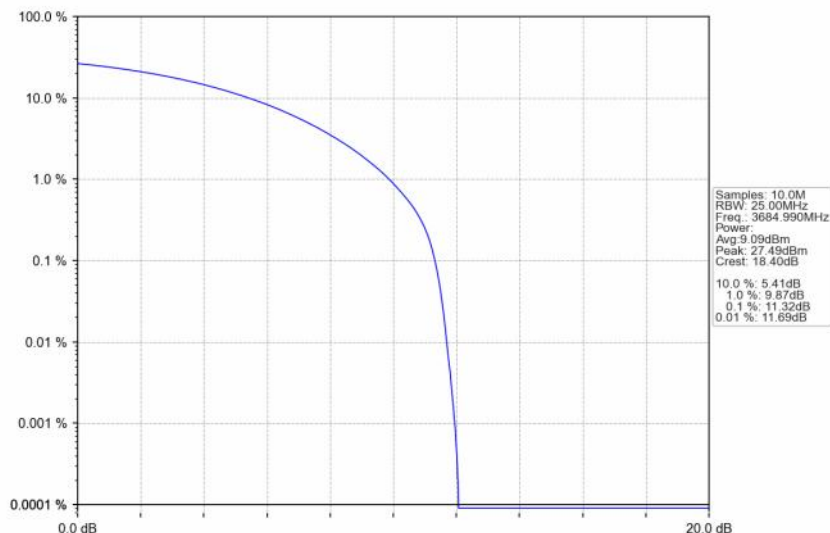
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n48_30kHz_SISO_NTNV_30MHz_CP-OFDM QPSK_3624.99MHz_Outer_Full



n48_30kHz_SISO_NTNV_30MHz_CP-OFDM QPSK_3684.99MHz_Outer_Full

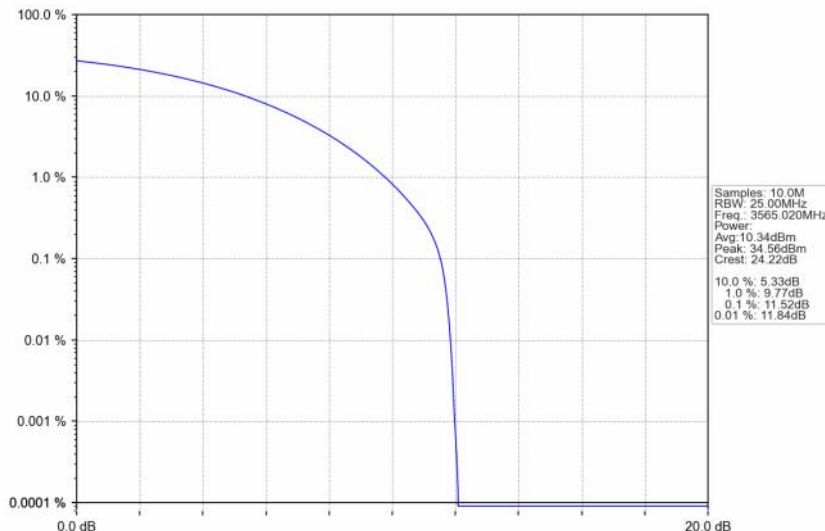


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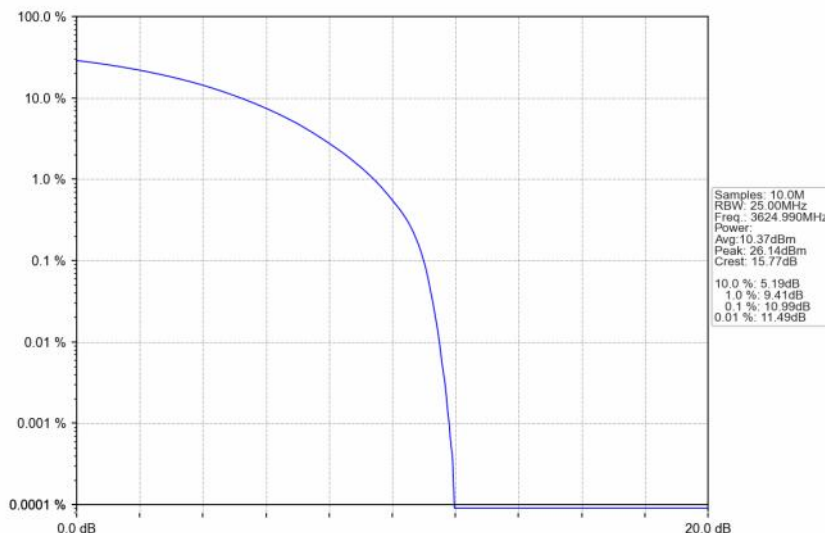
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n48_30kHz_SISO_NTNV_30MHz_CP-OFDM 16 QAM_3565.02MHz_Outer_Full



n48_30kHz_SISO_NTNV_30MHz_CP-OFDM 16 QAM_3624.99MHz_Outer_Full

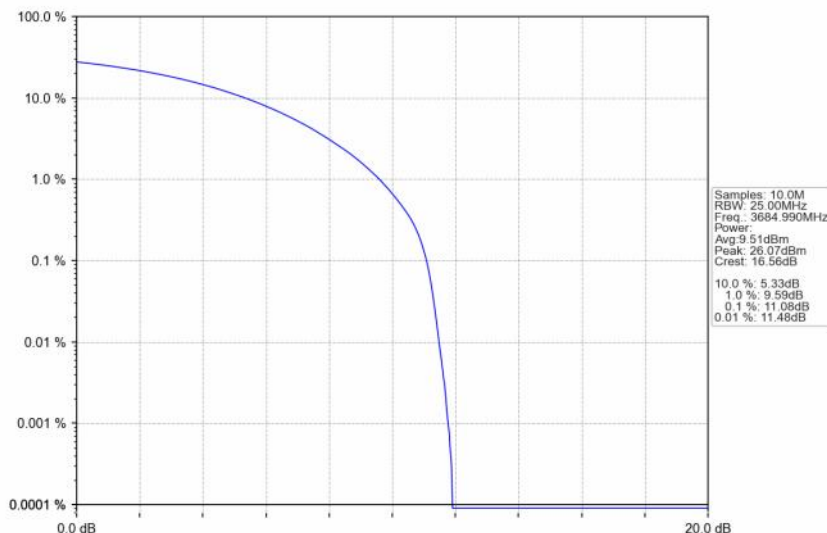


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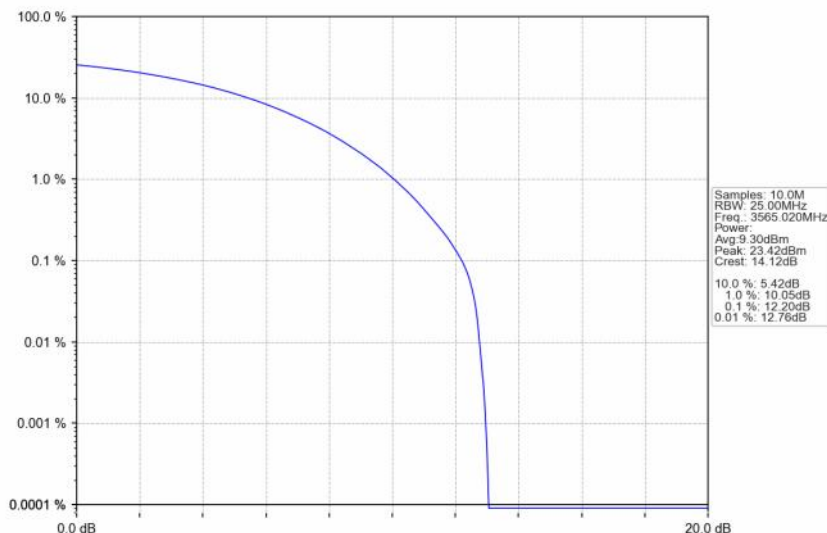
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n48_30kHz_SISO_NTNV_30MHz_CP-OFDM 64 QAM_3565.02MHz_Outer_Full

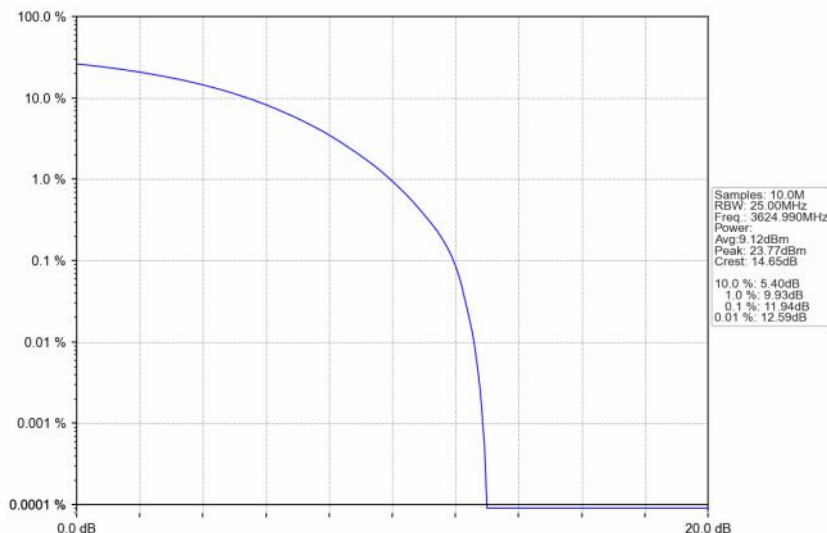


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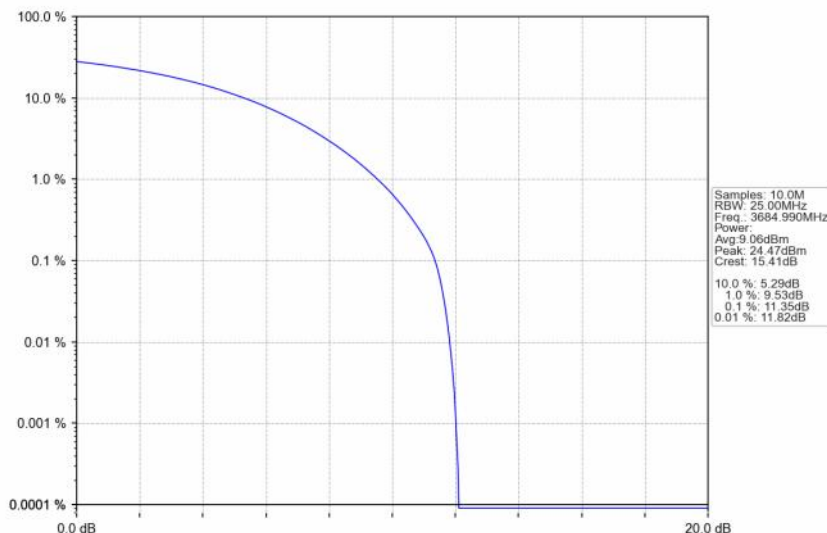
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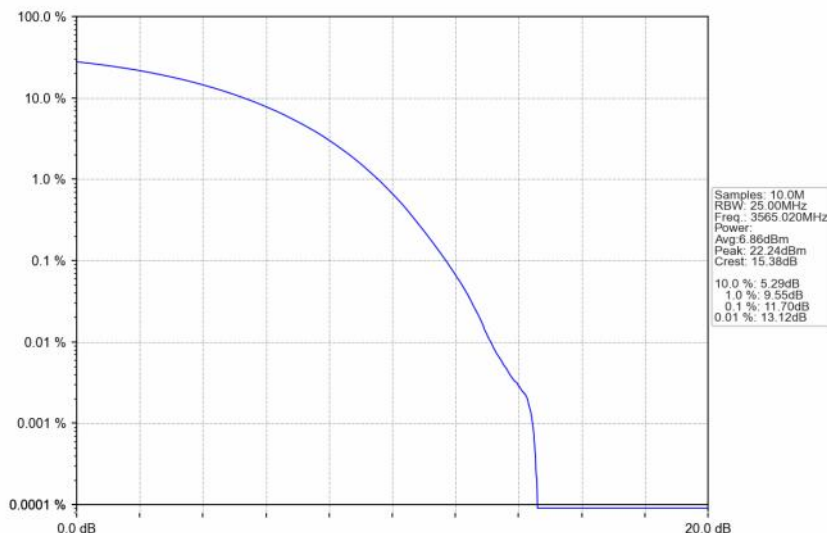


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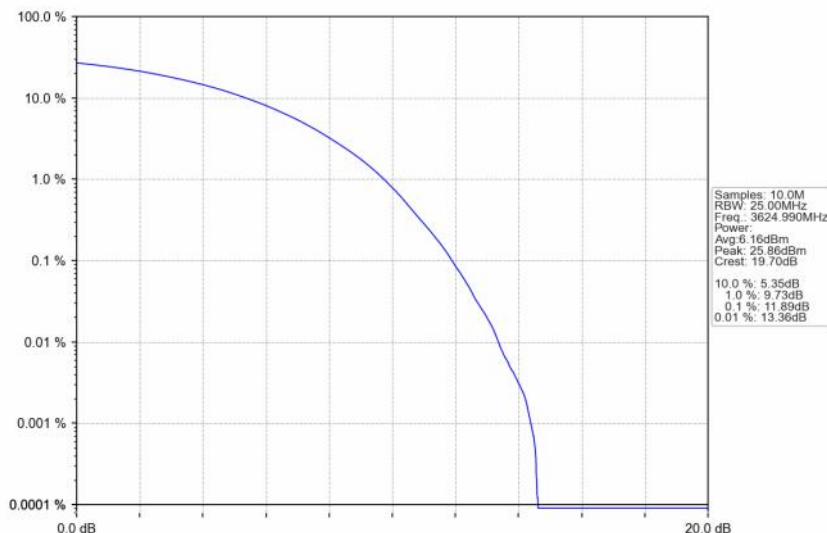
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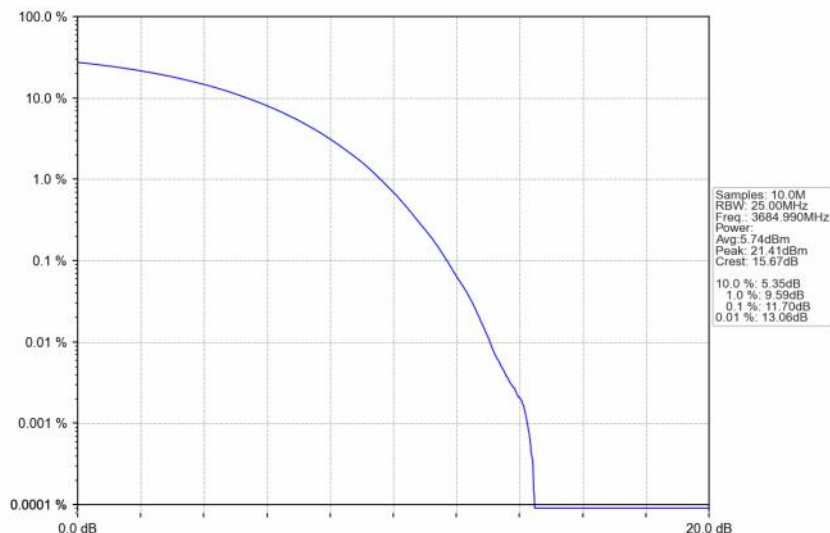


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n48_30kHz_SISO_NTNV_30MHz_CP-OFDM 256 QAM_3684.99MHz_Outer_Full



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6.4 30k_SISO_40MHz_NTNV

6.4.1 Test Result

5G NR n48 SCS=30kHz SISO 40MHz NTNv							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3570	Outer_Full	8.15	/	/	<=13	Pass
	3624.99	Outer_Full	8.36	/	/	<=13	Pass
	3679.98	Outer_Full	8.29	/	/	<=13	Pass
DFT-s-OFDM QPSK	3570	Outer_Full	8.87	/	/	<=13	Pass
	3624.99	Outer_Full	8.76	/	/	<=13	Pass
	3679.98	Outer_Full	8.80	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3570	Outer_Full	9.93	/	/	<=13	Pass
	3624.99	Outer_Full	9.84	/	/	<=13	Pass
	3679.98	Outer_Full	9.91	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3570	Outer_Full	10.44	/	/	<=13	Pass
	3624.99	Outer_Full	10.09	/	/	<=13	Pass
	3679.98	Outer_Full	10.16	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3570	Outer_Full	10.39	/	/	<=13	Pass
	3624.99	Outer_Full	10.42	/	/	<=13	Pass
	3679.98	Outer_Full	10.50	/	/	<=13	Pass
CP-OFDM QPSK	3570	Outer_Full	11.62	/	/	<=13	Pass
	3624.99	Outer_Full	11.54	/	/	<=13	Pass
	3679.98	Outer_Full	11.51	/	/	<=13	Pass
CP-OFDM 16 QAM	3570	Outer_Full	11.43	/	/	<=13	Pass
	3624.99	Outer_Full	11.64	/	/	<=13	Pass
	3679.98	Outer_Full	11.62	/	/	<=13	Pass
CP-OFDM 64 QAM	3570	Outer_Full	11.73	/	/	<=13	Pass
	3624.99	Outer_Full	11.58	/	/	<=13	Pass
	3679.98	Outer_Full	11.79	/	/	<=13	Pass
CP-OFDM 256 QAM	3570	Outer_Full	11.63	/	/	<=13	Pass
	3624.99	Outer_Full	11.49	/	/	<=13	Pass
	3679.98	Outer_Full	11.56	/	/	<=13	Pass

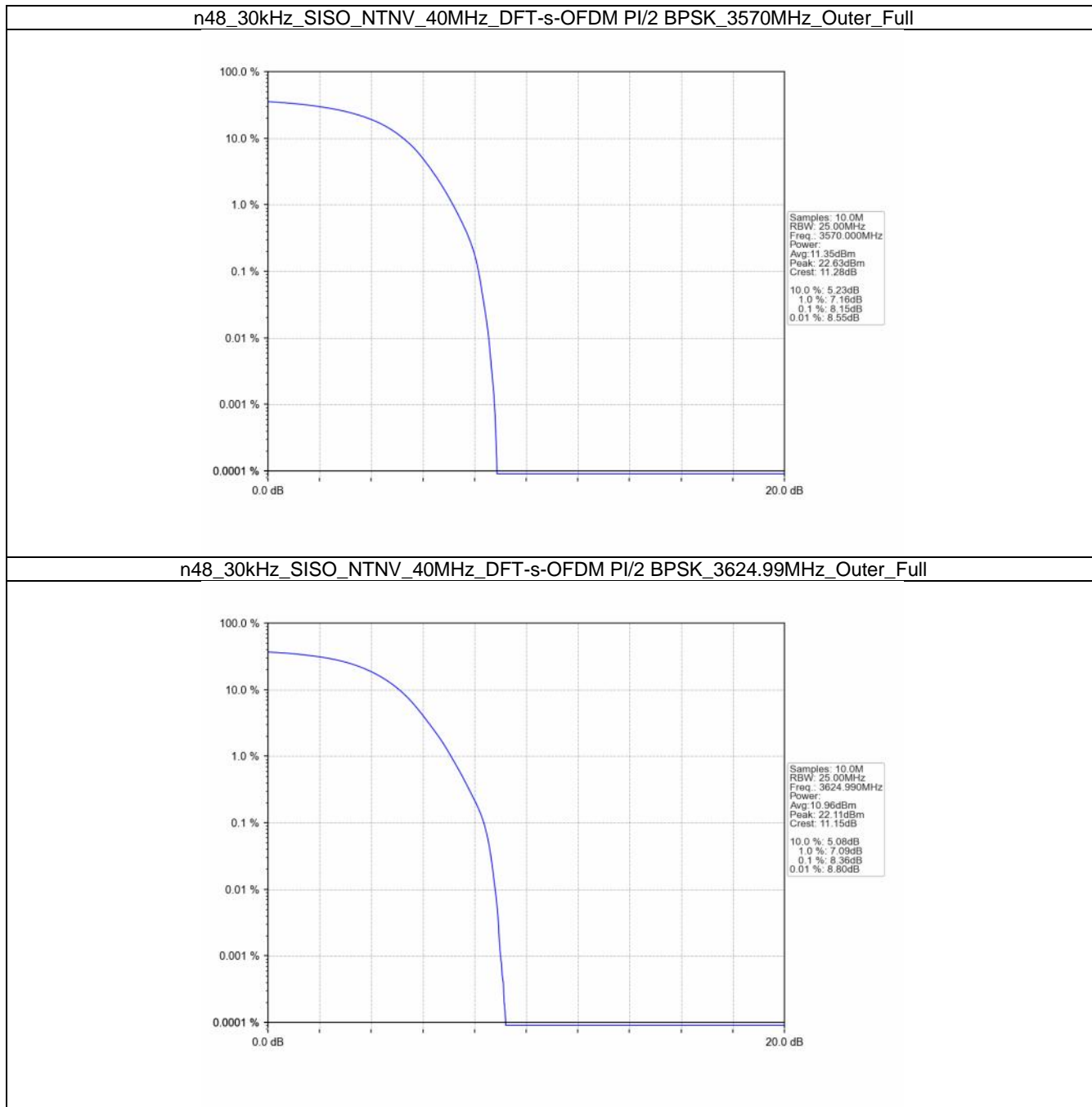


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6.4.2 Test Graph

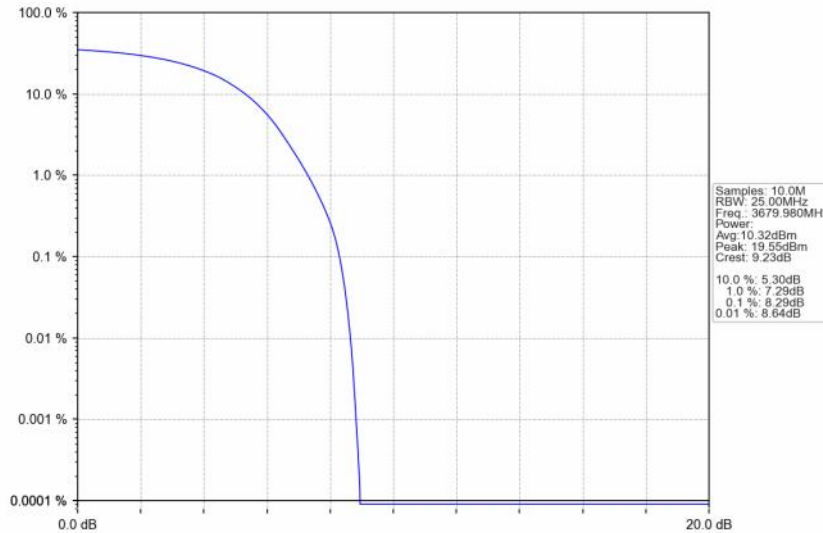


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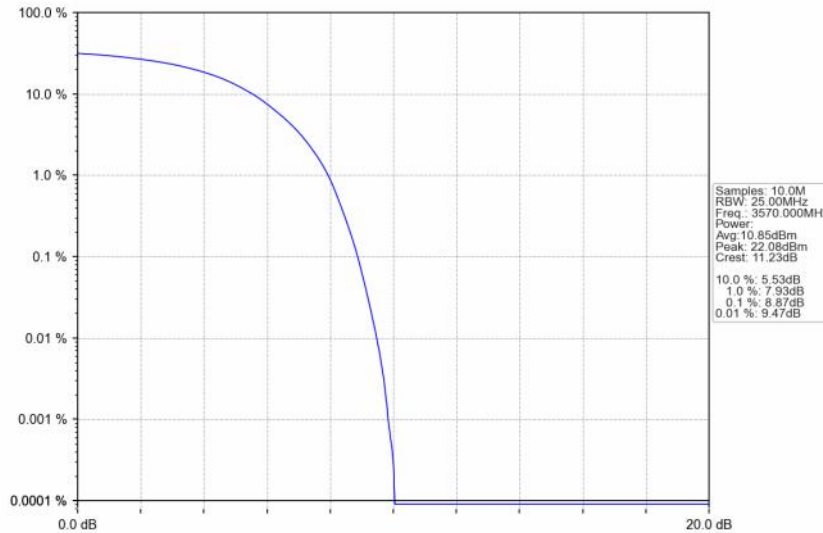
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n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM PI/2 BPSK_3679.98MHz_Outer_Full



n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM QPSK_3570MHz_Outer_Full

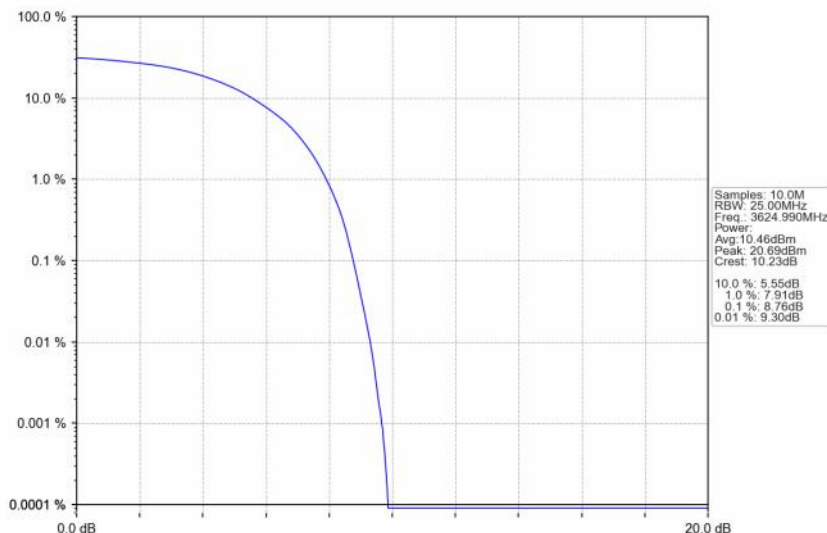


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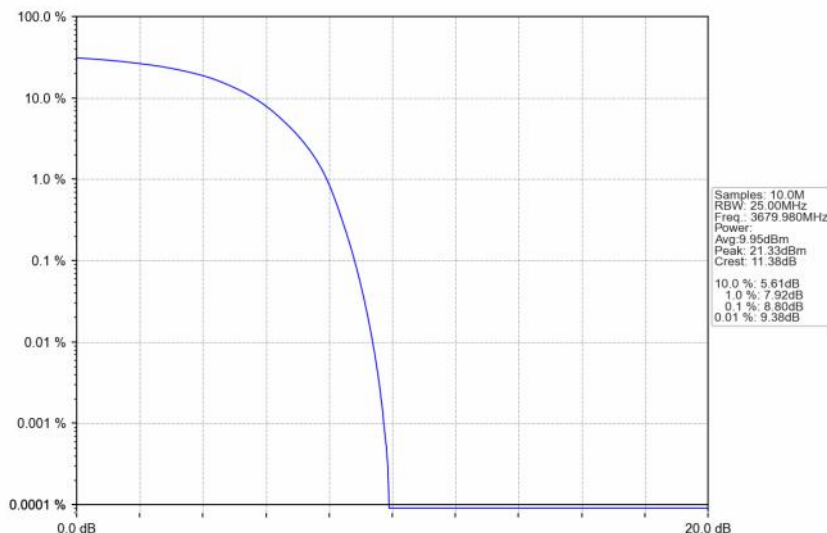
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n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM QPSK_3624.99MHz_Outer_Full



n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM QPSK_3679.98MHz_Outer_Full

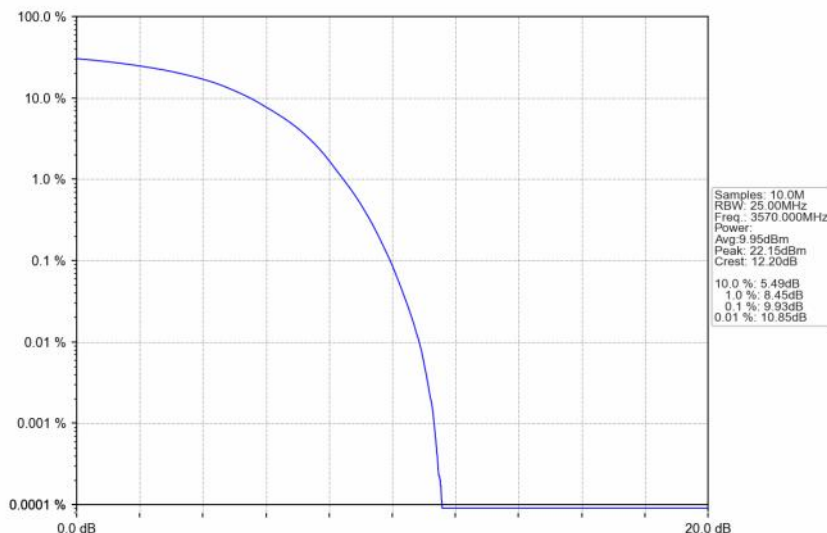


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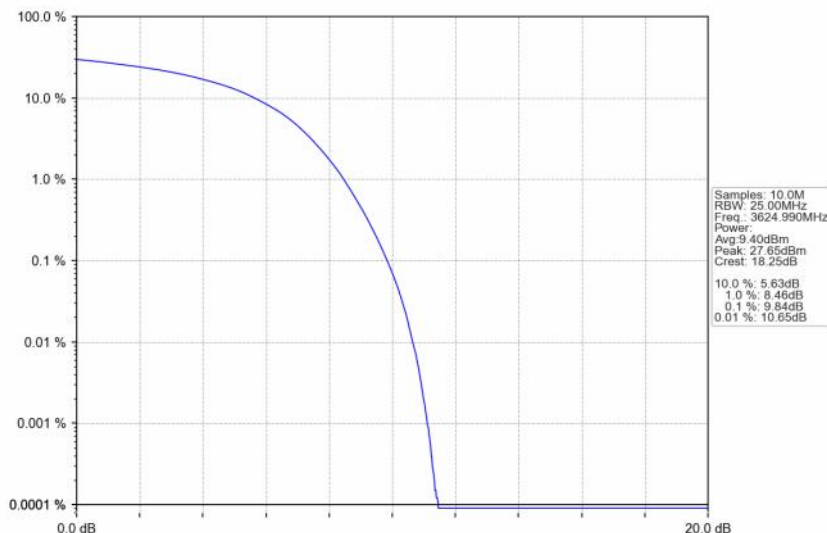
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n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_16_QAM_3570MHz_Outer_Full



n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_16_QAM_3624.99MHz_Outer_Full

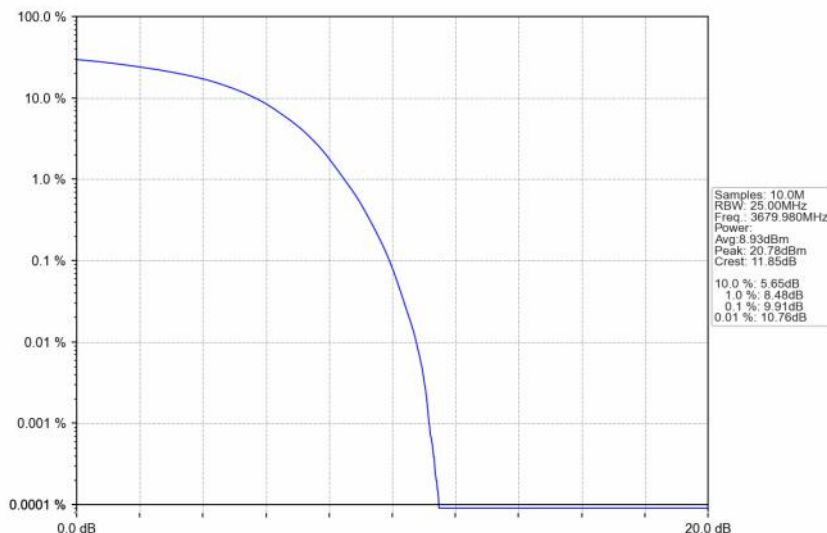


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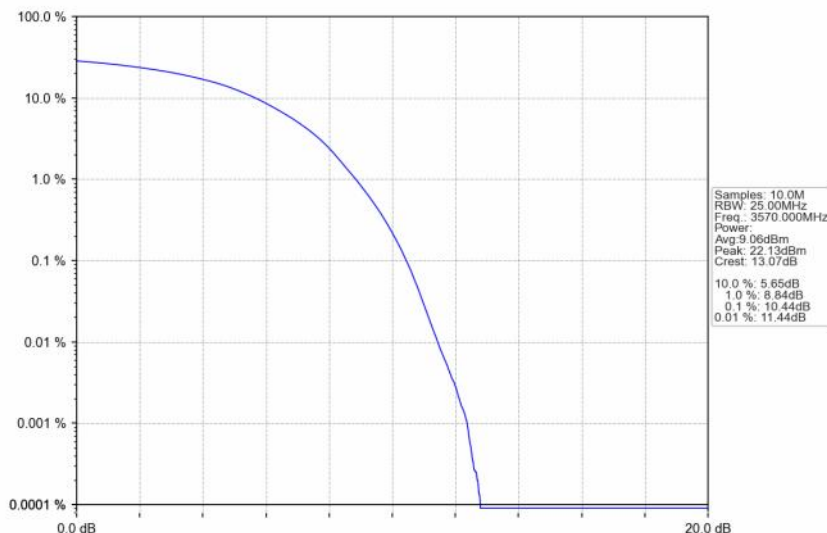
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n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM 16 QAM_3679.98MHz_Outer_Full



n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM 64 QAM_3570MHz_Outer_Full

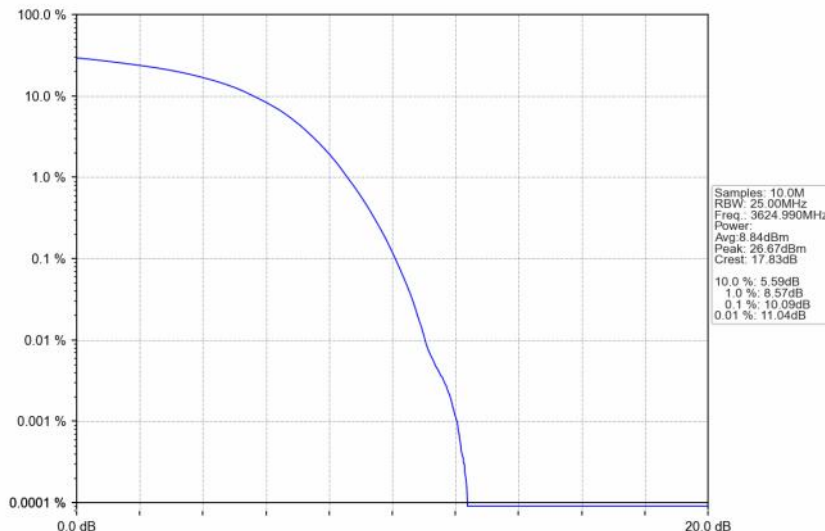


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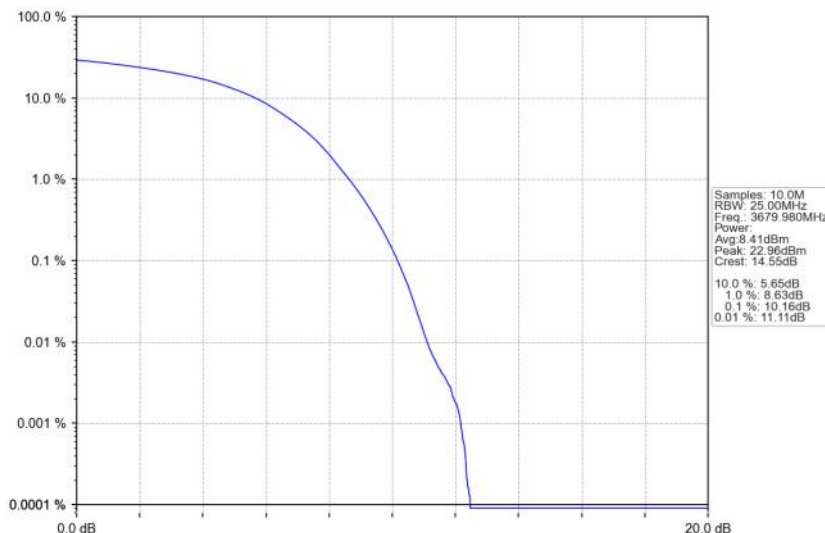
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n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM 64 QAM_3624.99MHz_Outer_Full



n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM 64 QAM_3679.98MHz_Outer_Full

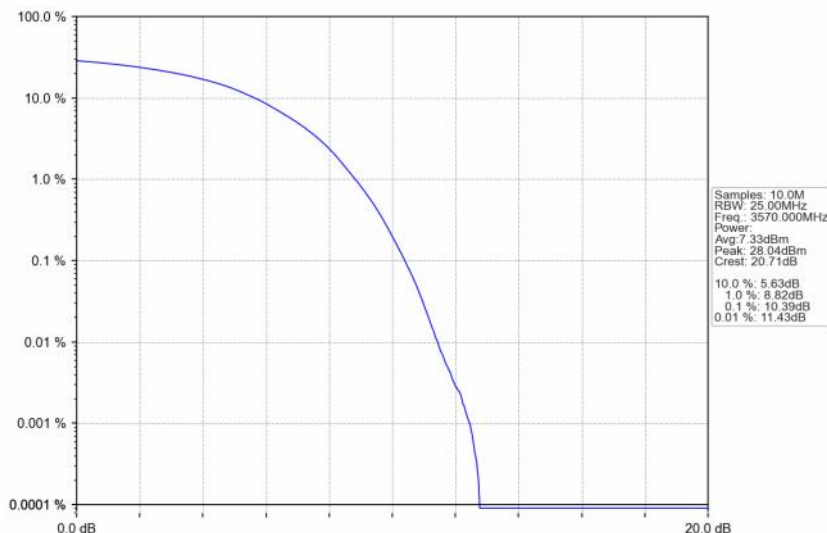


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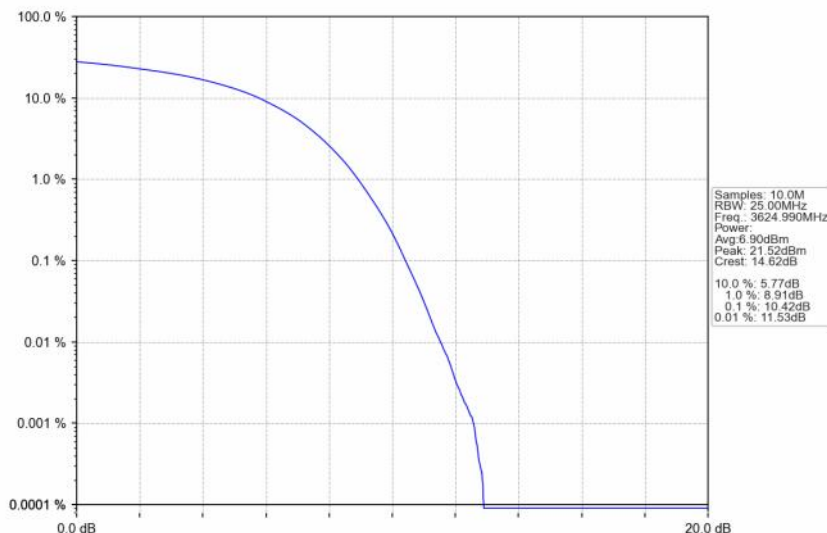
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n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_256_QAM_3570MHz_Outer_Full



n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_256_QAM_3624.99MHz_Outer_Full

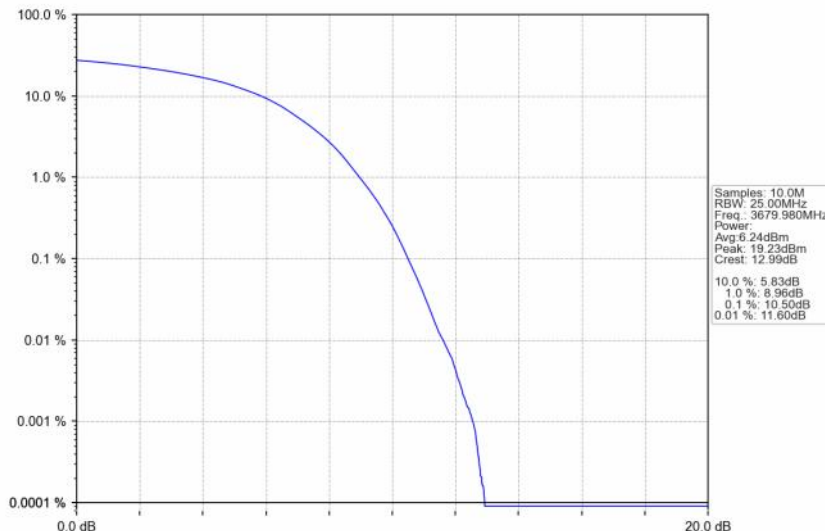


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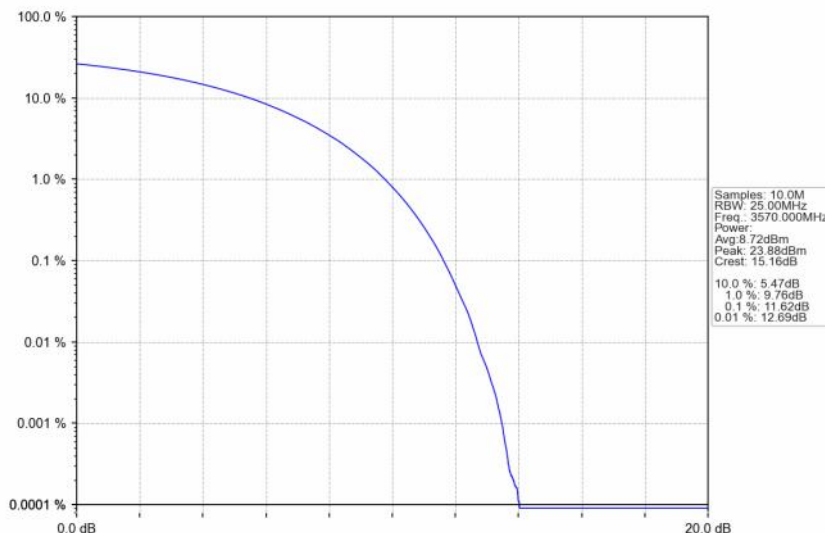
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n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM 256 QAM_3679.98MHz_Outer_Full



n48_30kHz_SISO_NTNV_40MHz_CP-OFDM QPSK_3570MHz_Outer_Full

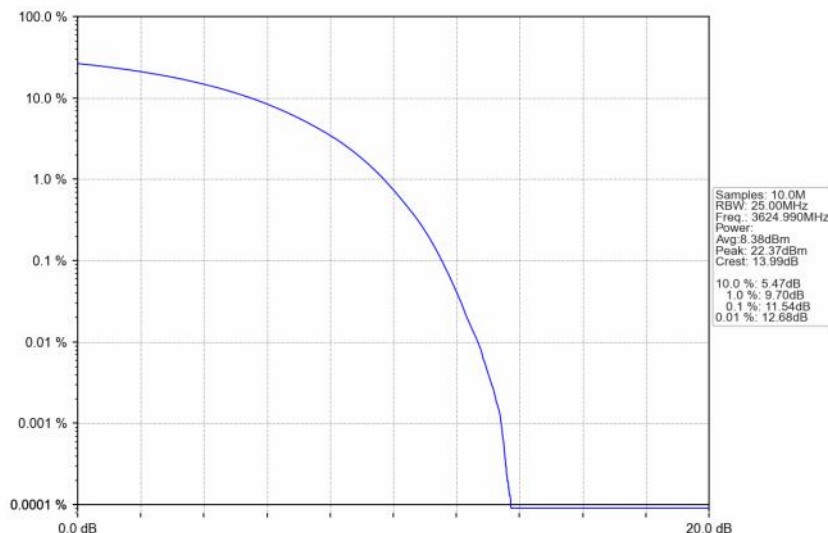


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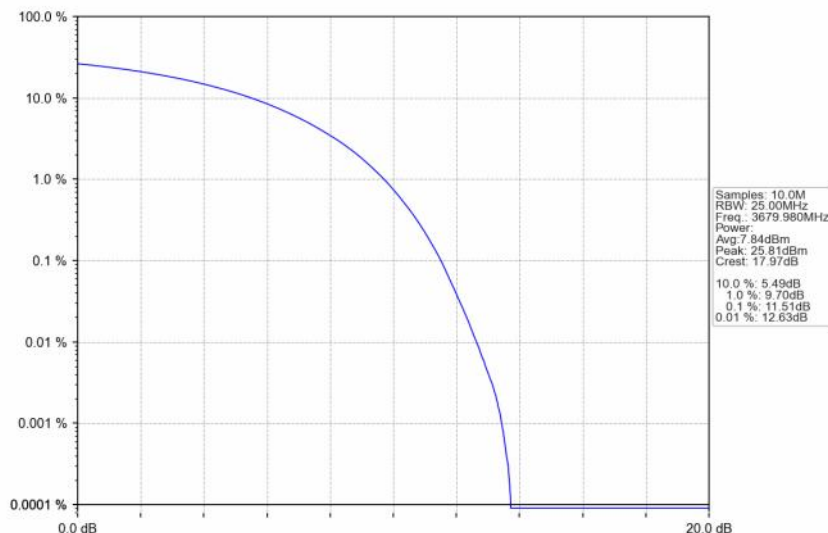
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n48_30kHz_SISO_NTNV_40MHz_CP-OFDM QPSK_3624.99MHz_Outer_Full



n48_30kHz_SISO_NTNV_40MHz_CP-OFDM QPSK_3679.98MHz_Outer_Full

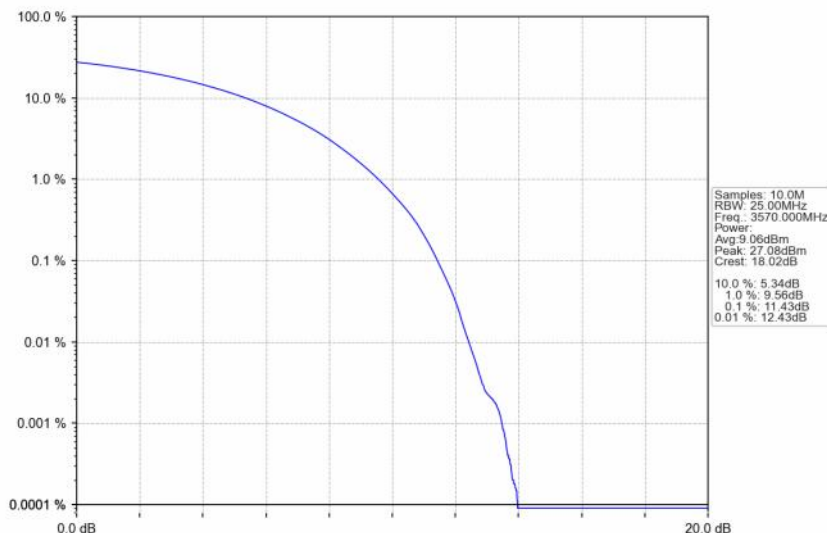


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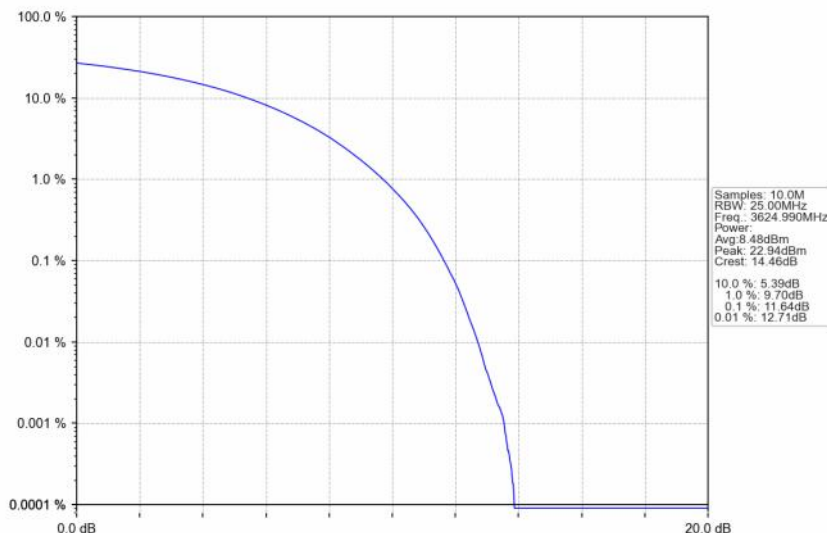
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n48_30kHz_SISO_NTNV_40MHz_CP-OFDM 16 QAM_3570MHz_Outer_Full



n48_30kHz_SISO_NTNV_40MHz_CP-OFDM 16 QAM_3624.99MHz_Outer_Full

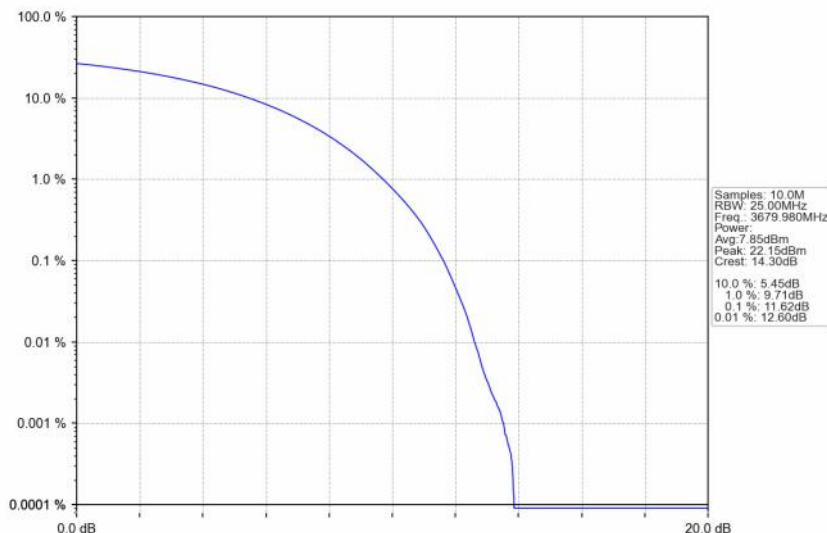


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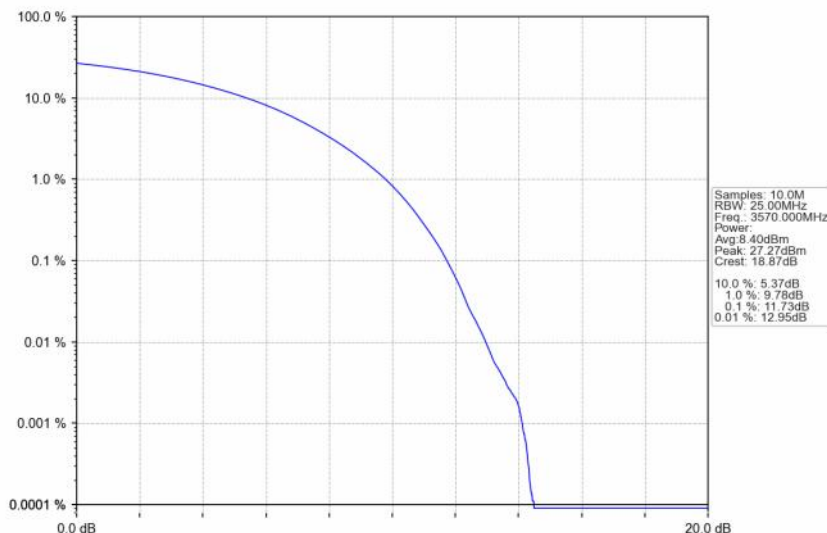
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n48_30kHz_SISO_NTNV_40MHz_CP-OFDM 16 QAM_3679.98MHz_Outer_Full



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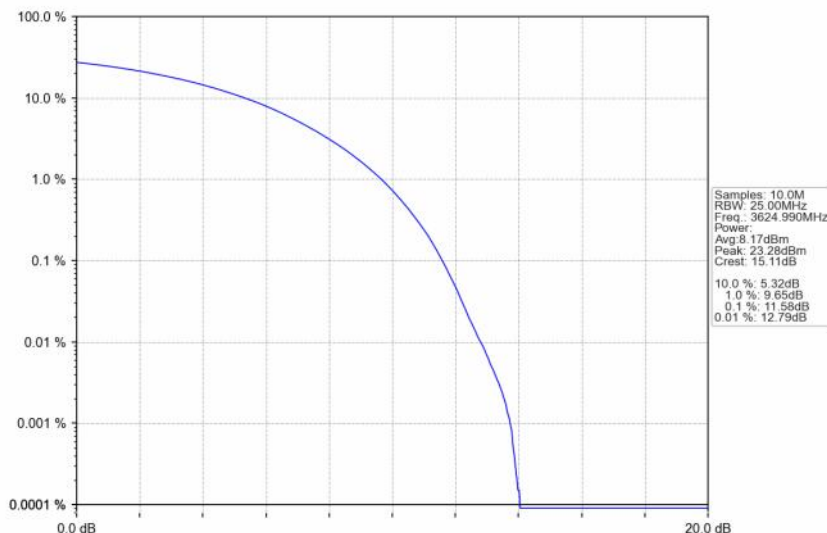


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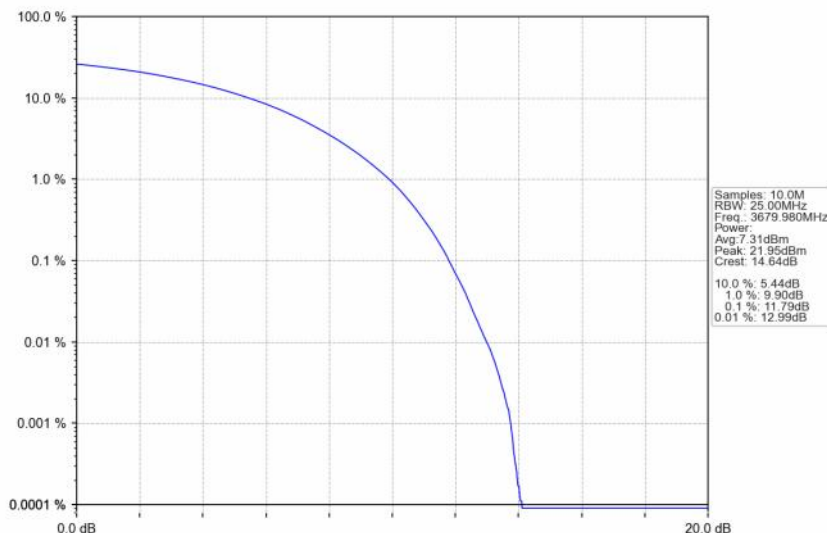
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n48_30kHz_SISO_NTNV_40MHz_CP-OFDM 64 QAM_3624.99MHz_Outer_Full



n48_30kHz_SISO_NTNV_40MHz_CP-OFDM 64 QAM_3679.98MHz_Outer_Full

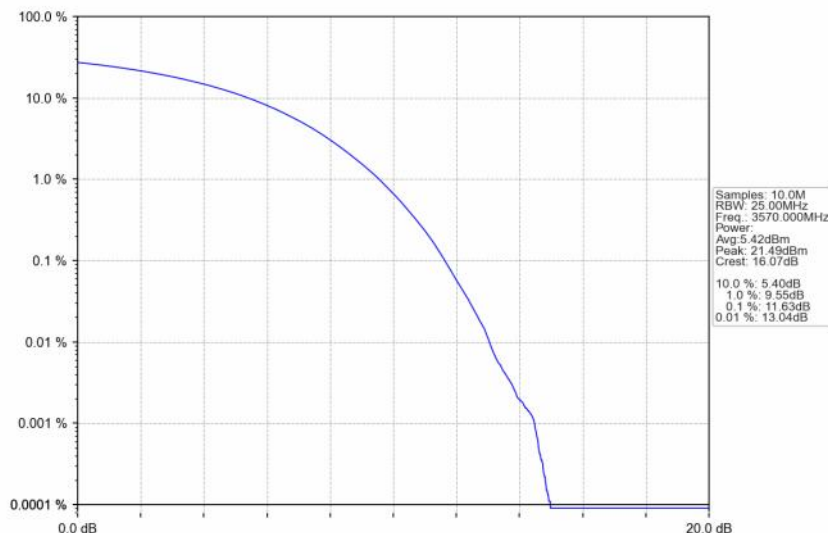


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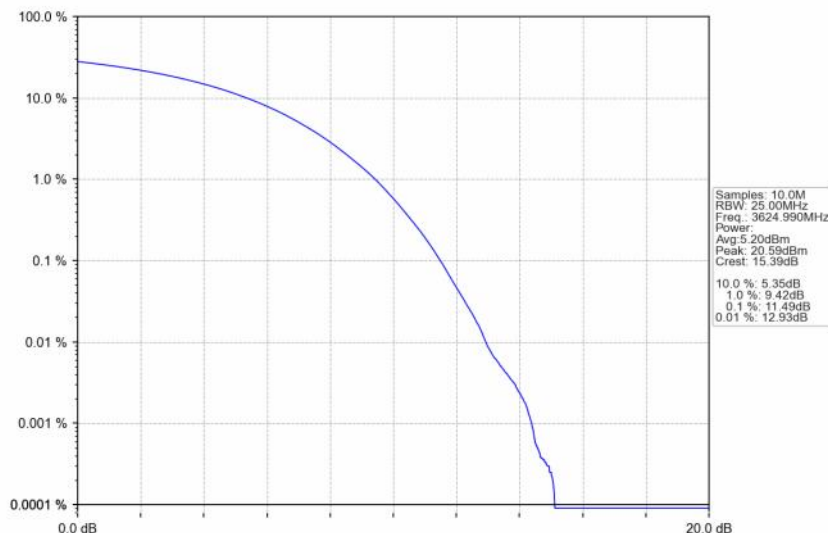
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n48_30kHz_SISO_NTNV_40MHz_CP-OFDM 256 QAM_3570MHz_Outer_Full



n48_30kHz_SISO_NTNV_40MHz_CP-OFDM 256 QAM_3624.99MHz_Outer_Full

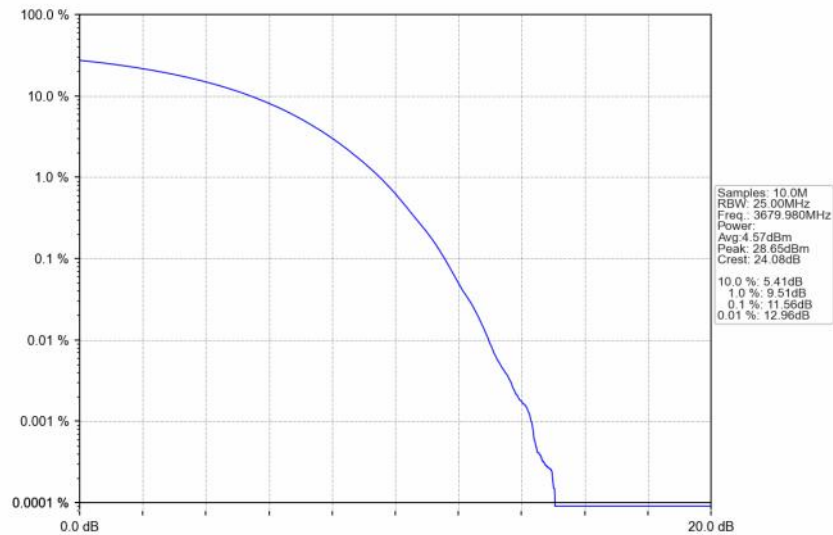


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n48_30kHz_SISO_NTNV_40MHz_CP-OFDM 256 QAM_3679.98MHz_Outer_Full



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7. Spurious Emission

7.1 30k_SISO_10MHz_NTNV

7.1.1 Test Result

5G NR n48 SCS=30kHz SISO 10MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission			Verdict
			Ant1	Ant2	Sum	
DFT-s-OFDM PI/2 BPSK	3555	Edge_1RB_Left	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
		Inner_1RB_Left	Refer To Test Graph			Pass
	3624.99	Edge_1RB_Left	Refer To Test Graph			Pass
		Edge_1RB_Right	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
3694.98	Inner_1RB_Right	Refer To Test Graph			Pass	
	Edge_1RB_Left	Refer To Test Graph			Pass	
	Outer_Full	Refer To Test Graph			Pass	
DFT-s-OFDM QPSK	3555	Edge_1RB_Left	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
		Inner_1RB_Left	Refer To Test Graph			Pass
	3624.99	Edge_1RB_Left	Refer To Test Graph			Pass
		Edge_1RB_Right	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
3694.98	Inner_1RB_Right	Refer To Test Graph			Pass	
	Edge_1RB_Left	Refer To Test Graph			Pass	
	Outer_Full	Refer To Test Graph			Pass	
CP-OFDM QPSK	3555	Edge_1RB_Left	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
		Inner_1RB_Left	Refer To Test Graph			Pass
	3624.99	Edge_1RB_Left	Refer To Test Graph			Pass
		Edge_1RB_Right	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
3694.98	Inner_1RB_Right	Refer To Test Graph			Pass	
	Edge_1RB_Left	Refer To Test Graph			Pass	
	Outer_Full	Refer To Test Graph			Pass	

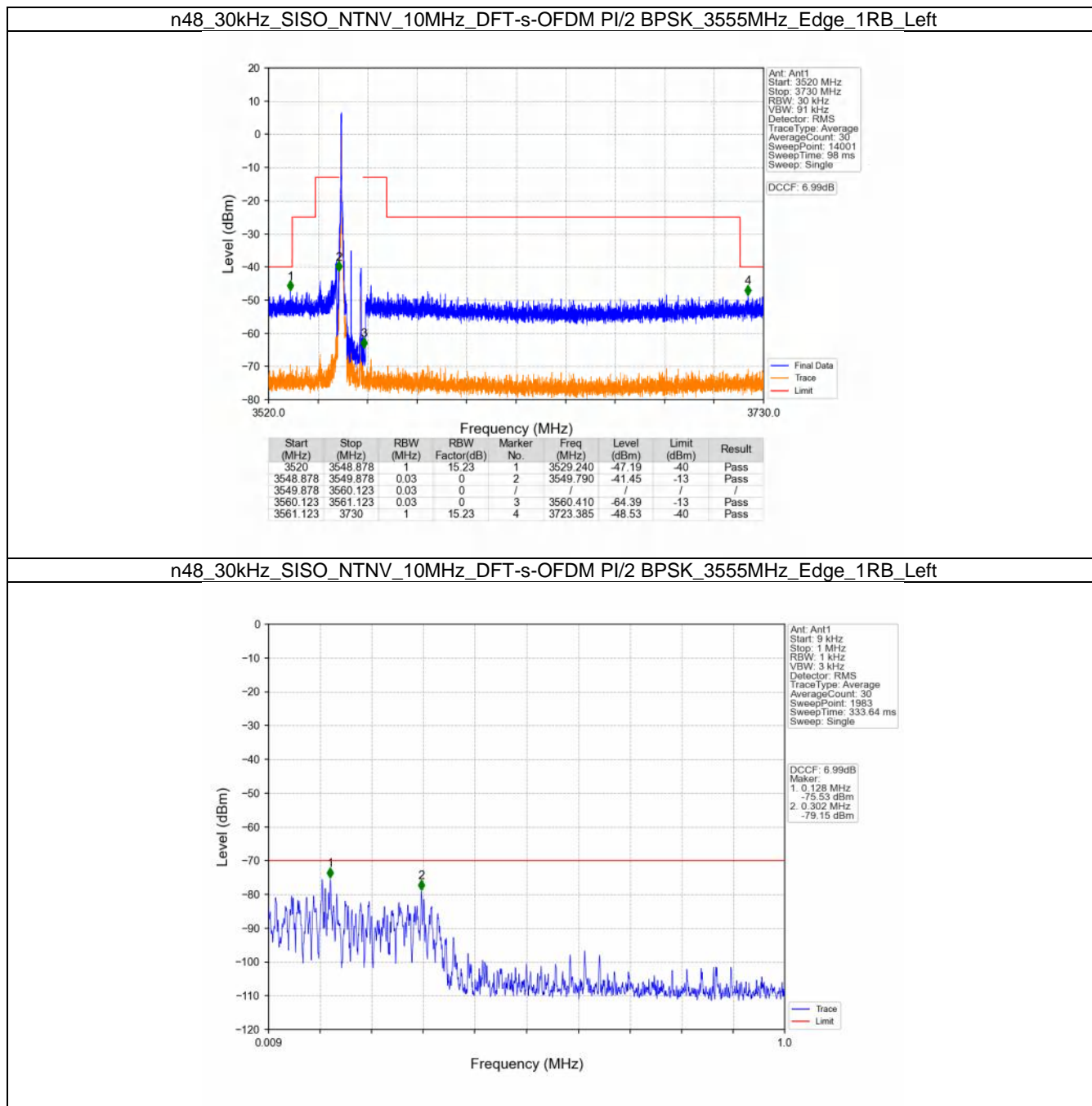


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7.1.2 Test Graph

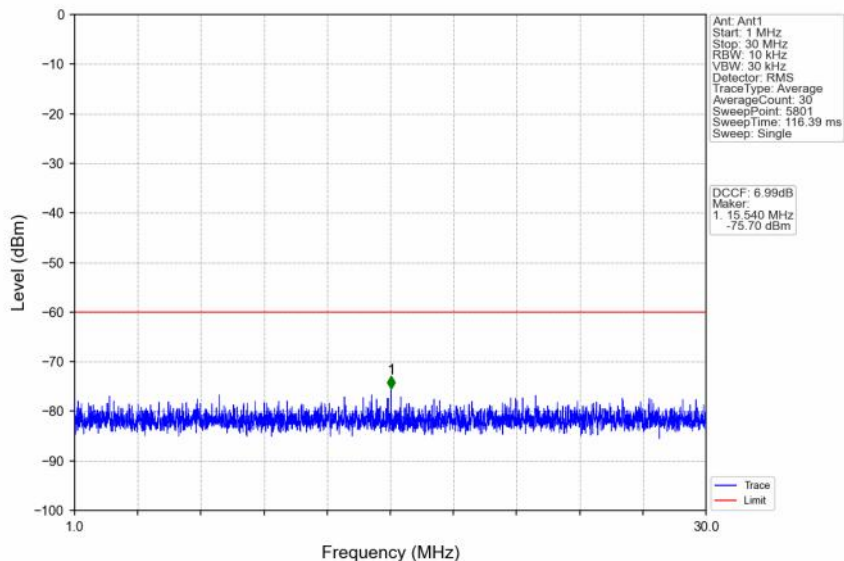


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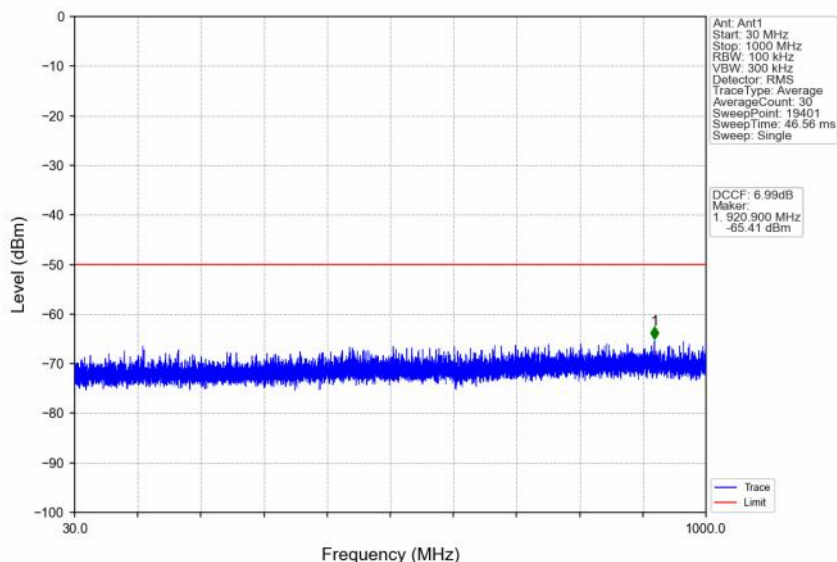
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n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_3555MHz_Edge_1RB_Left



n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_3555MHz_Edge_1RB_Left

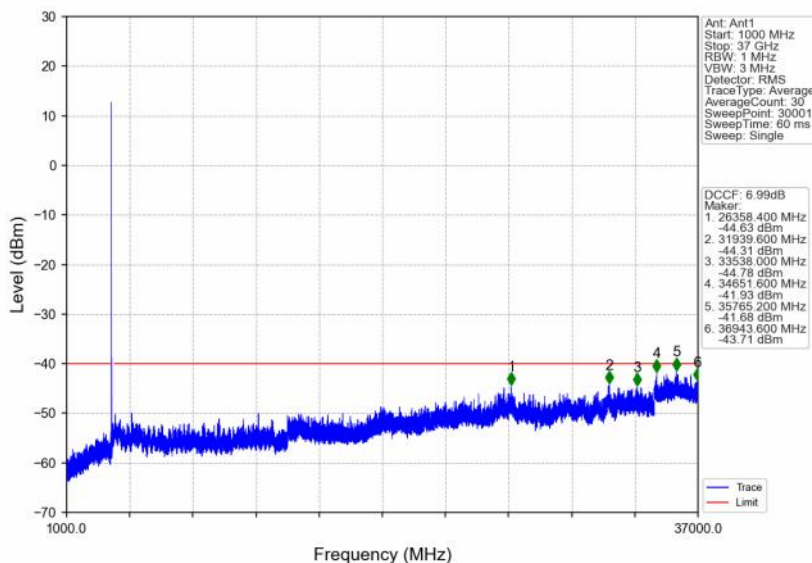


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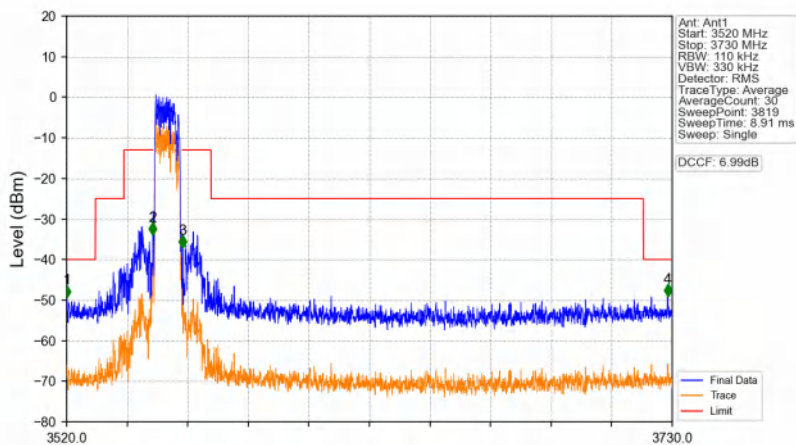
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n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_3555MHz_Outer_Full

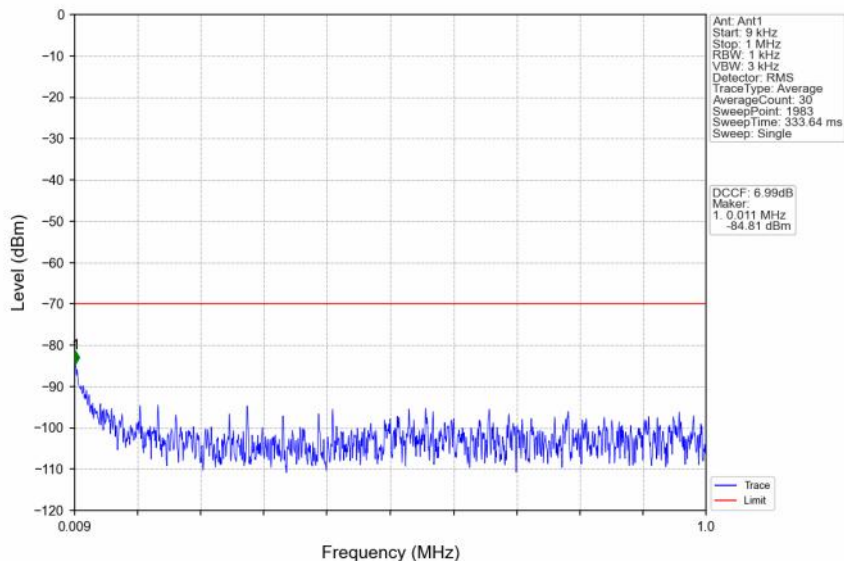


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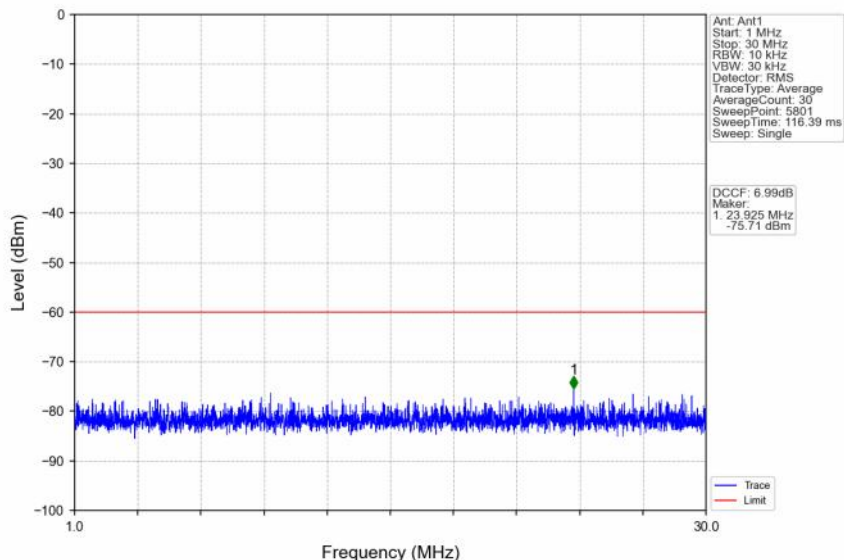
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n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_3555MHz_Outer_Full

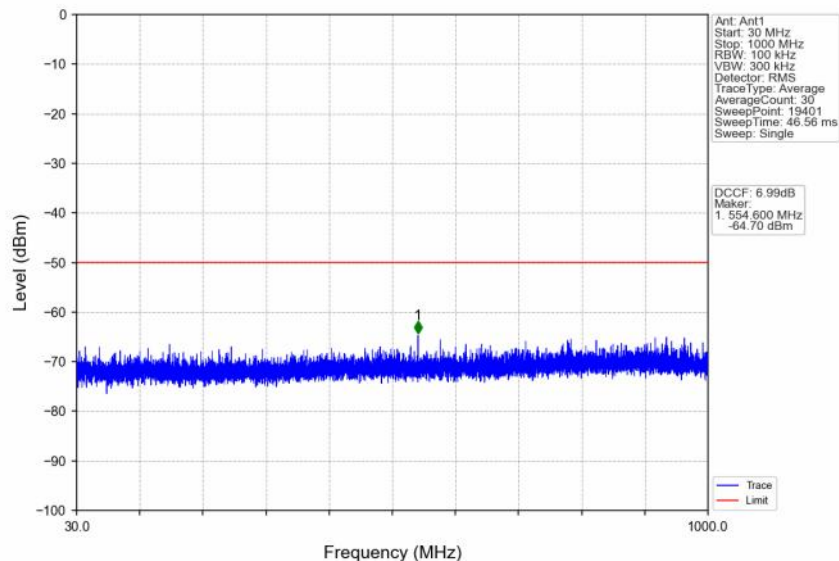


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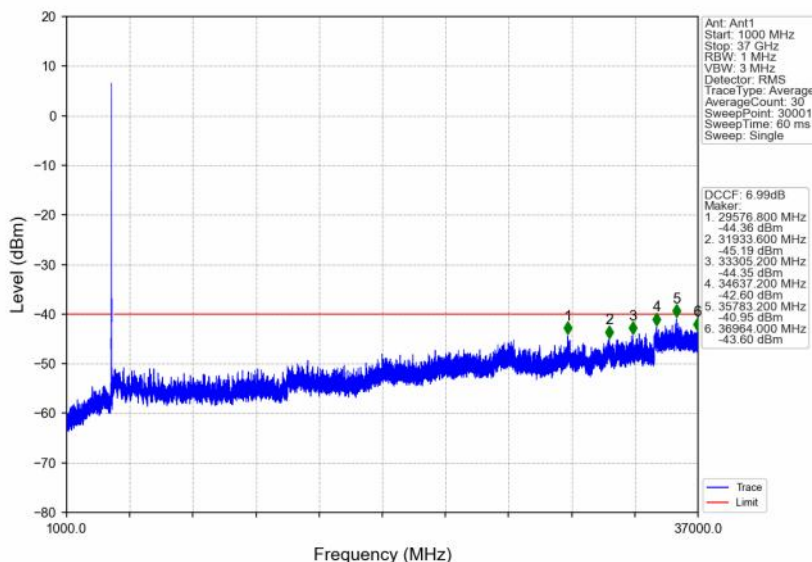
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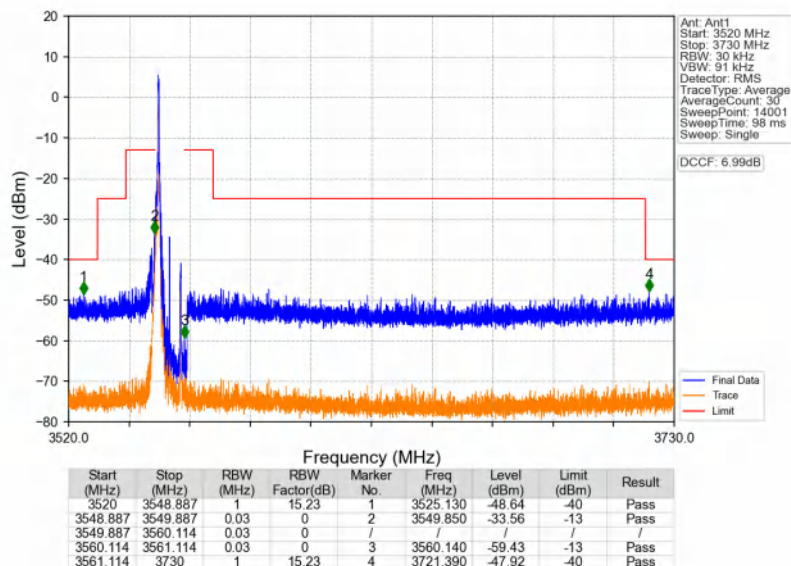


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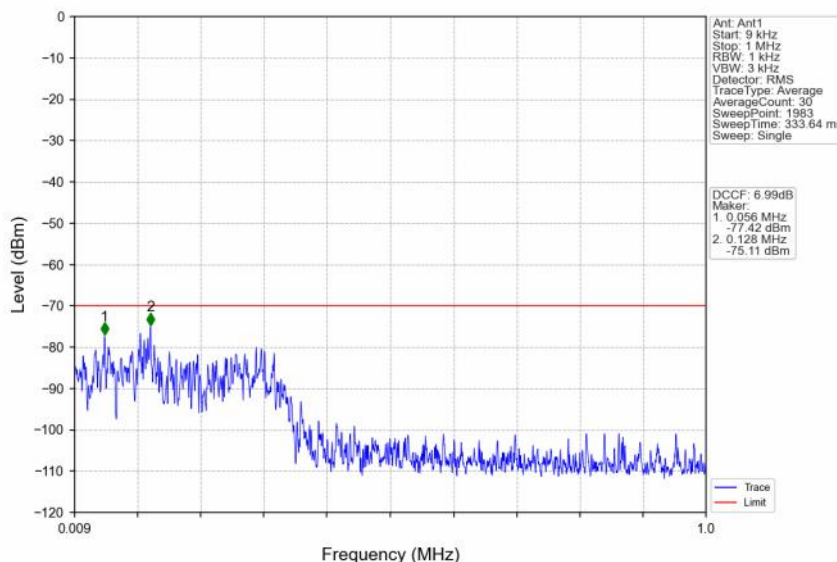
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n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_3555MHz_Inner_1RB_Left

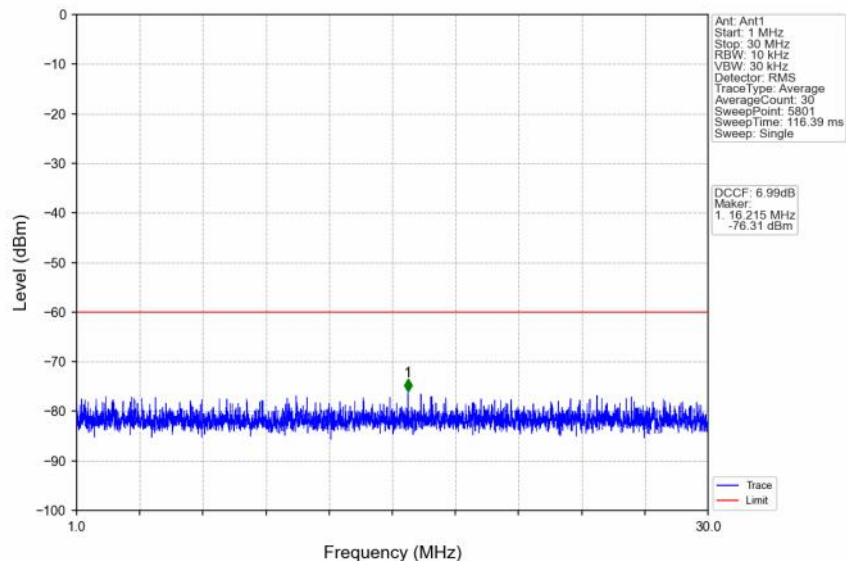


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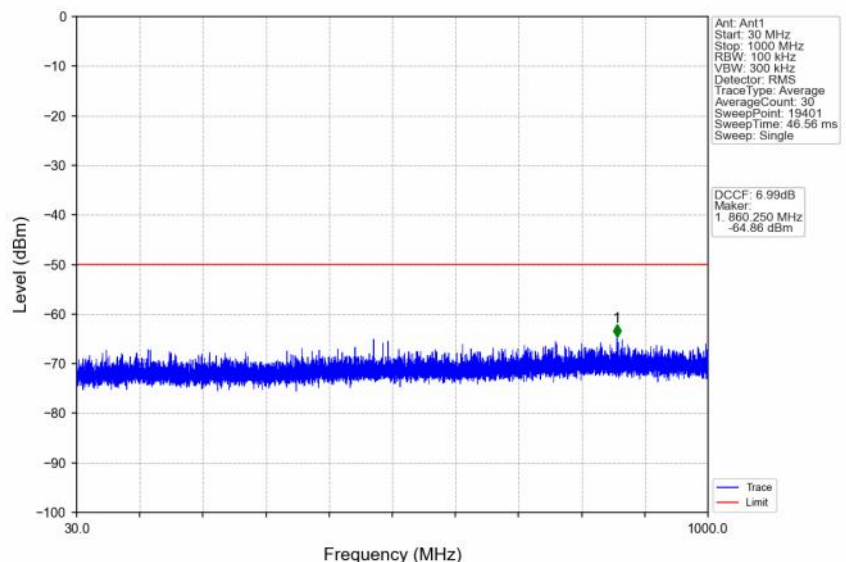
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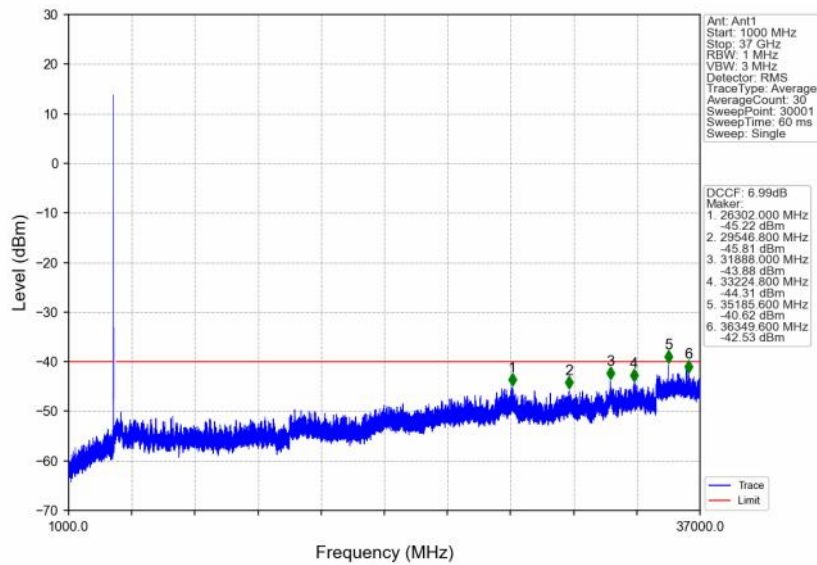


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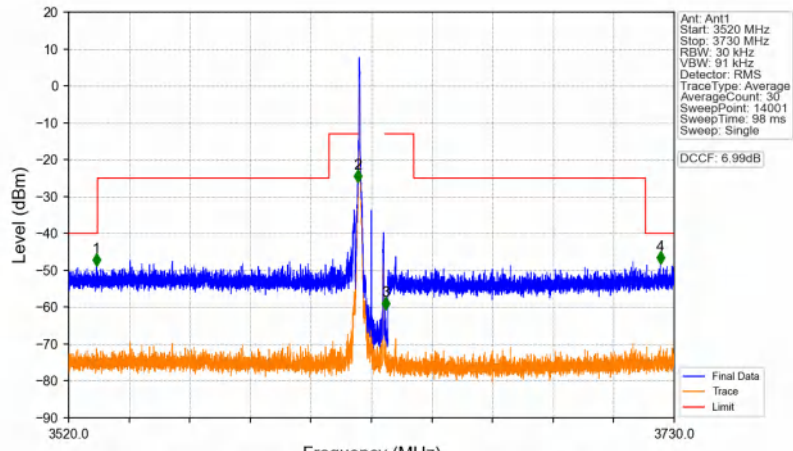
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n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_3624.99MHz_Edge_1RB_Left



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3520	3619.302	1	15.23	1	3529.690	-48.93	-40	Pass
3619.302	3620.302	0.03	0	2	3620.290	-26.17	-13	Pass
3620.302	3629.678	0.03	0	3	3629.875	-60.79	-13	Pass
3629.678	3630.678	0.03	0	4	3725.200	-48.34	-40	Pass

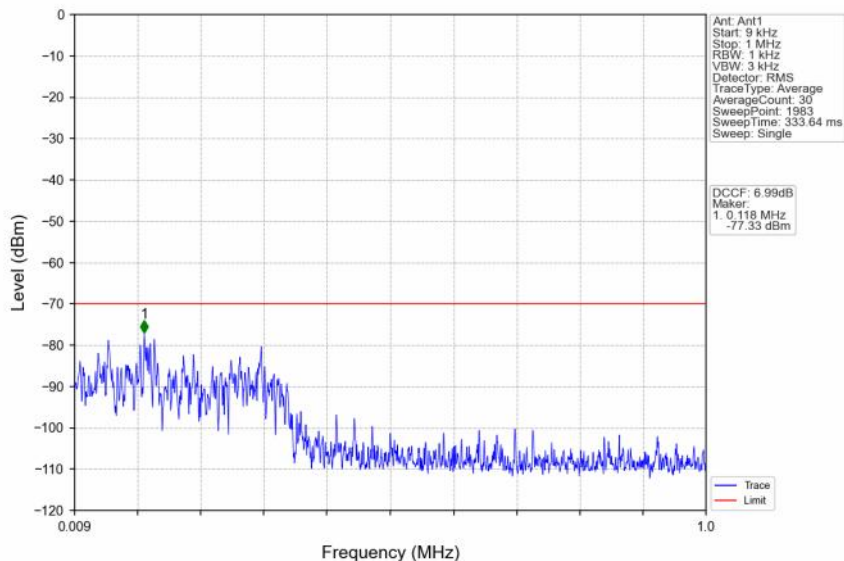


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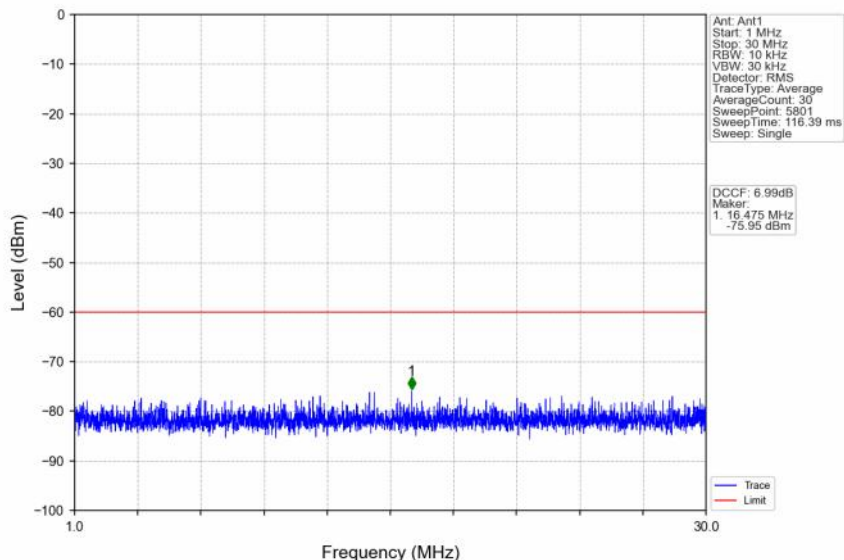
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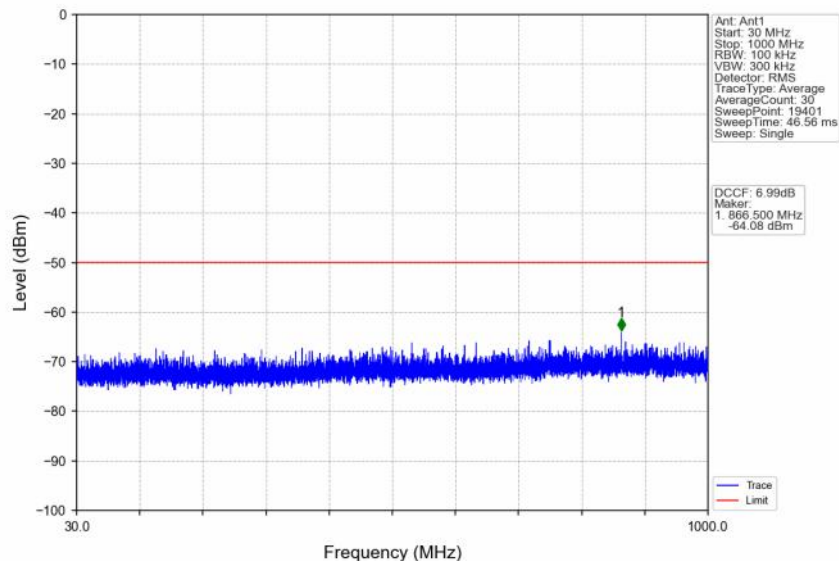


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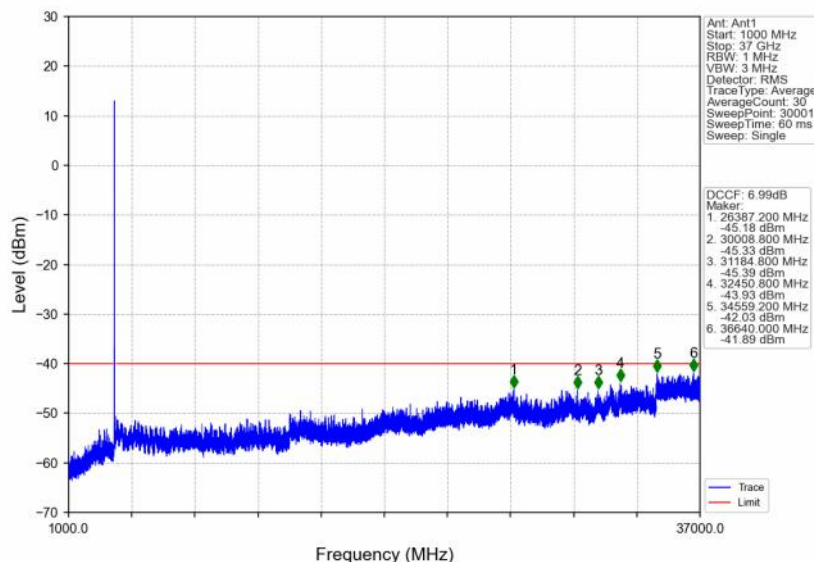
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n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_3624.99MHz_Edge_1RB_Left



n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_3624.99MHz_Edge_1RB_Left

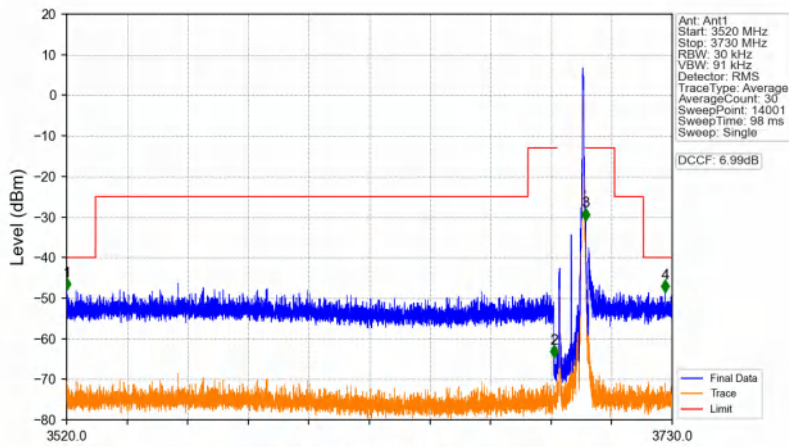


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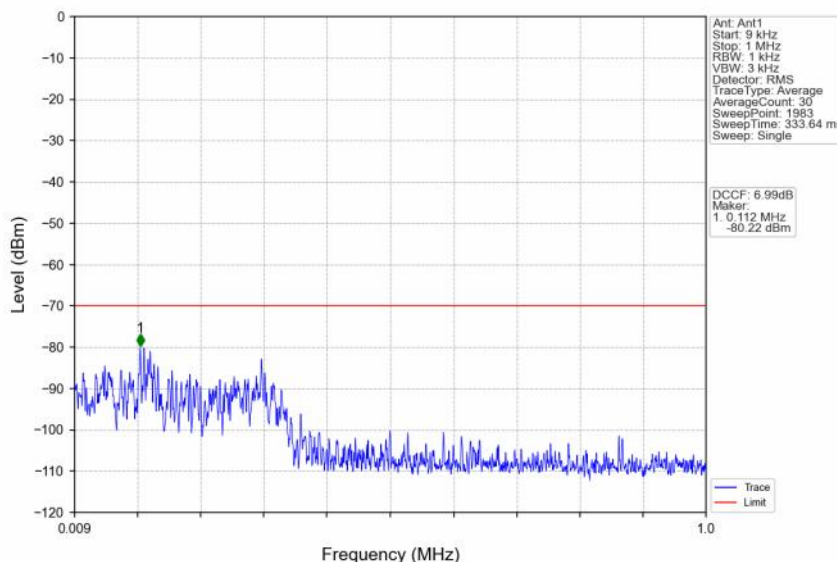
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n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_3694.98MHz_Edge_1RB_Right



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor (dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3520	3688.97	1	15.23	1	3520.120	-48.15	-40	Pass
3688.97	3699.991	0.03	0	2	3689.020	-64.62	-13	Pass
3699.991	3700.991	0.03	0	3	3700.000	-30.89	-13	Pass
3700.991	3730	1	15.23	4	3727.600	-48.61	-40	Pass

n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_3694.98MHz_Edge_1RB_Right

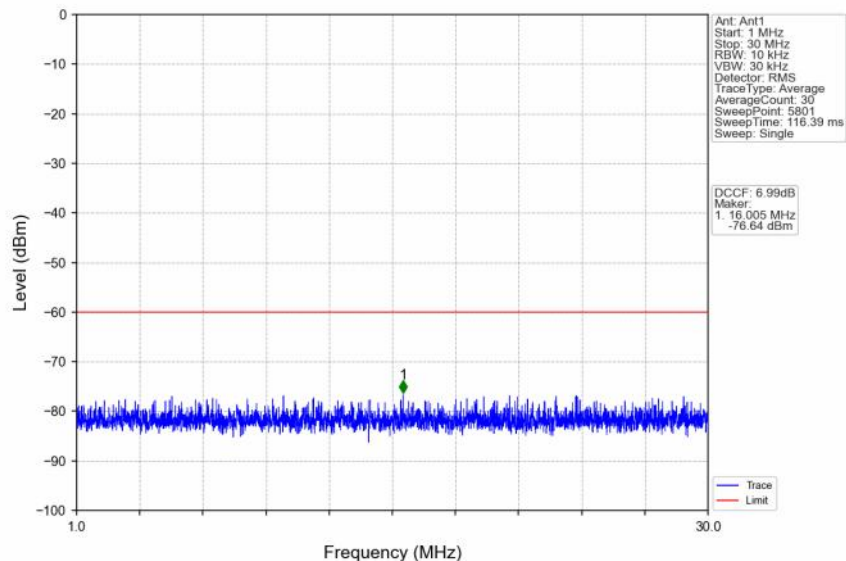


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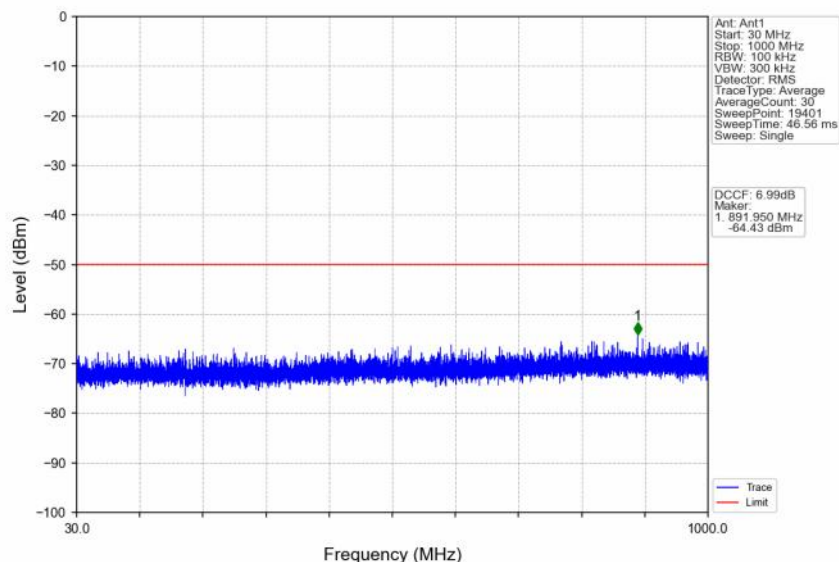
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n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_3694.98MHz_Edge_1RB_Right

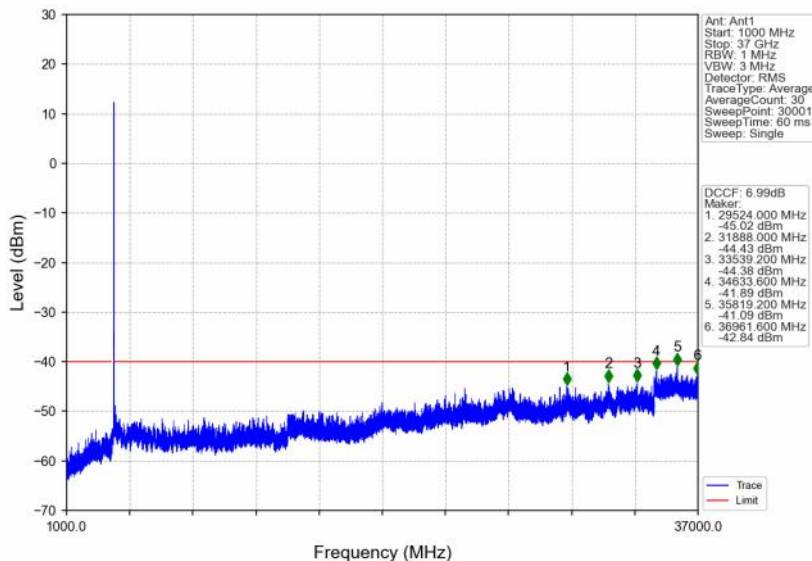


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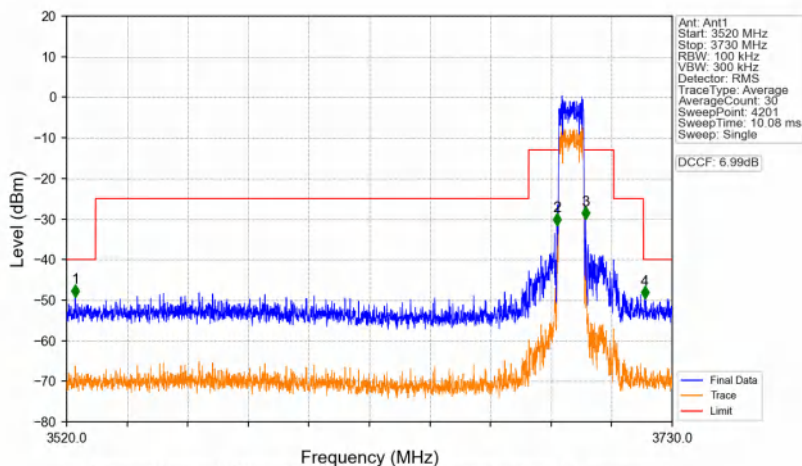
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n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_3694.98MHz_Outer_Full



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor (dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3520	3689.234	1	10	1	3523.000	-49.24	-40	Pass
3689.234	3690.234	0.1	0	2	3690.050	-31.61	-13	Pass
3690.234	3699.726	0.1	0	3	3700.050	-30.07	-13	Pass
3699.726	3700.726	0.1	0	4	3720.550	-49.72	-40	Pass

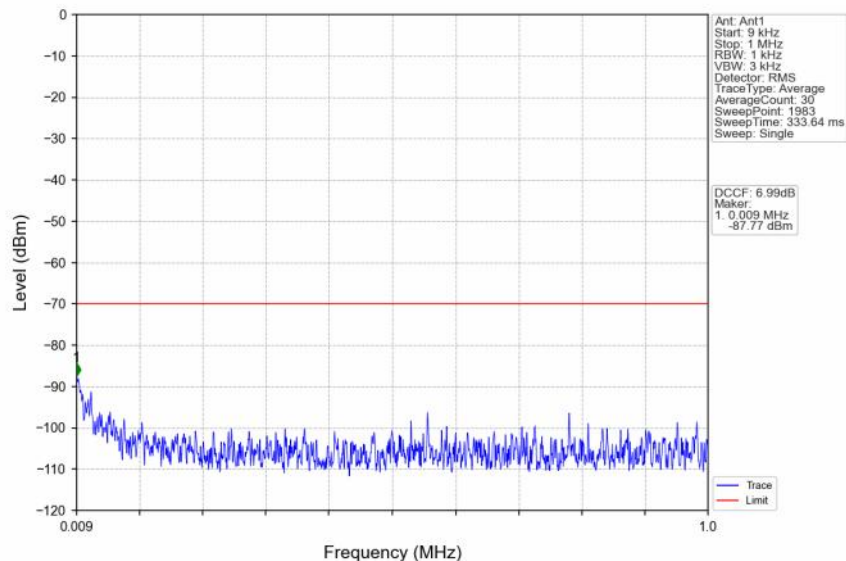


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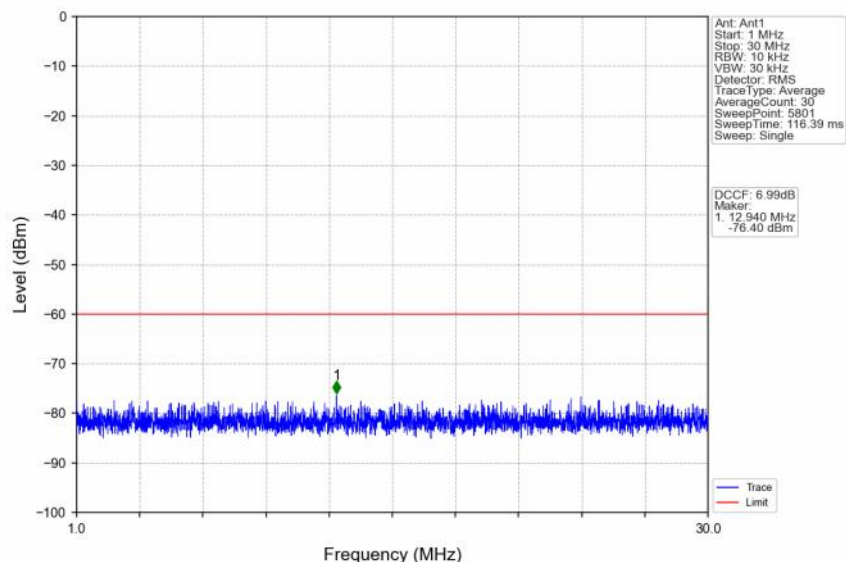
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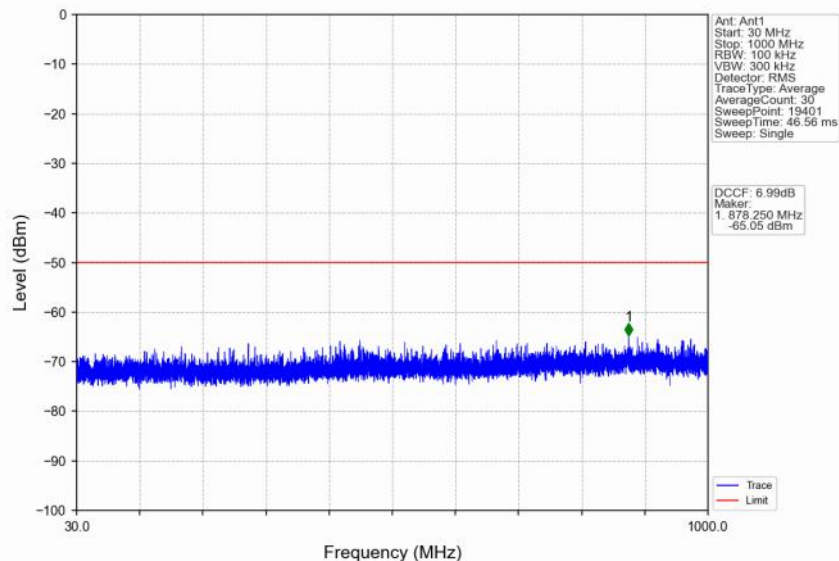


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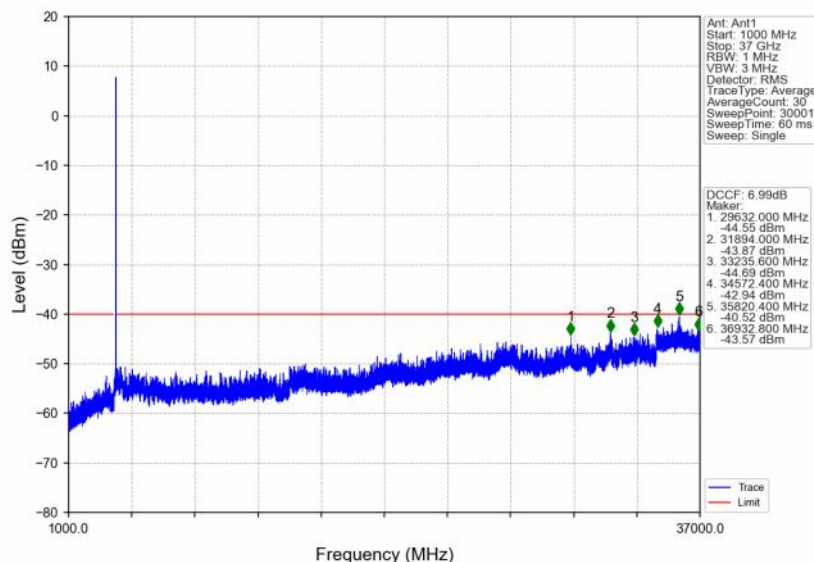
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n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_3694.98MHz_Outer_Full

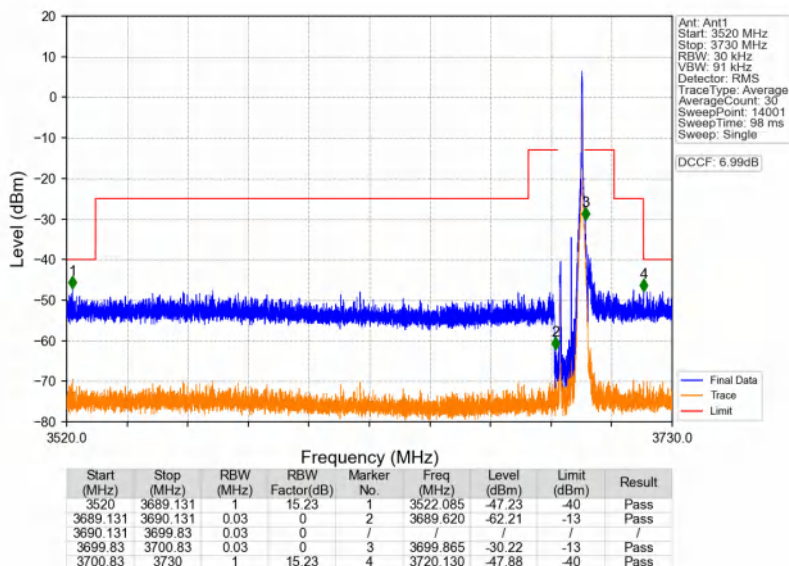


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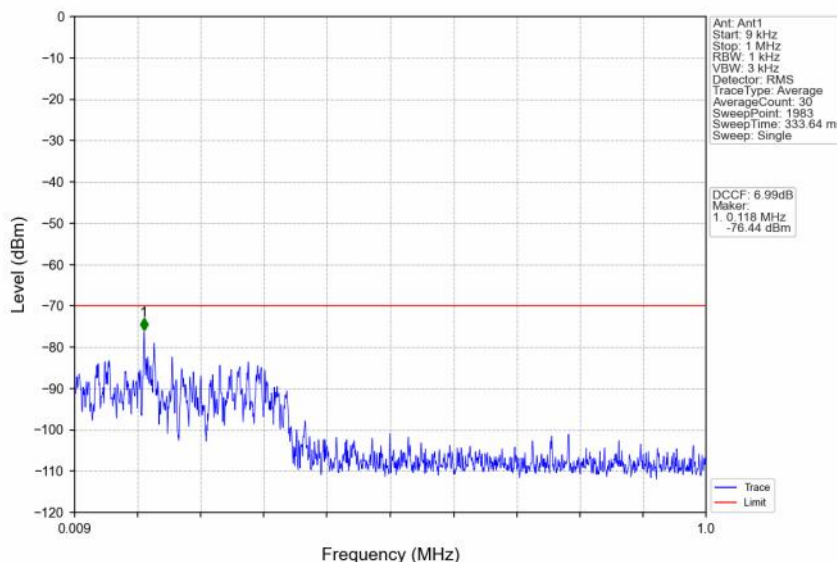
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n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_3694.98MHz_Inner_1RB_Right

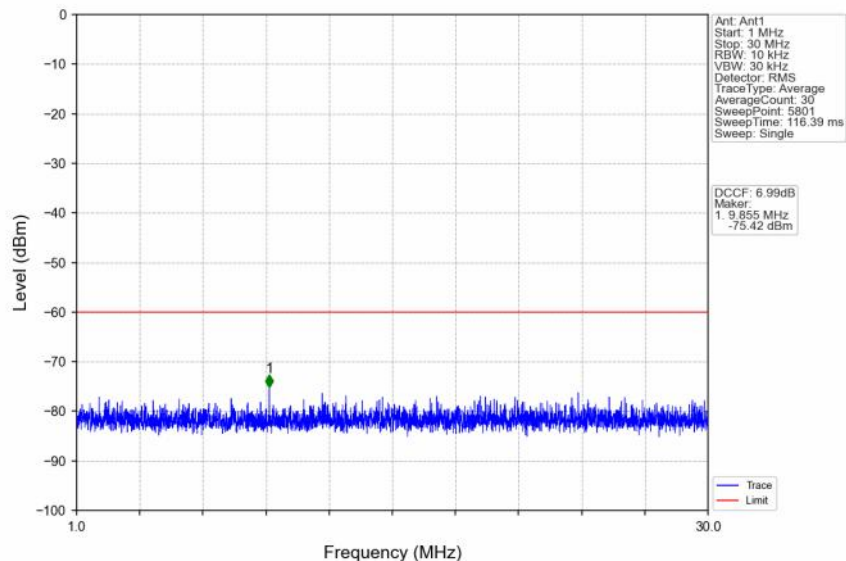


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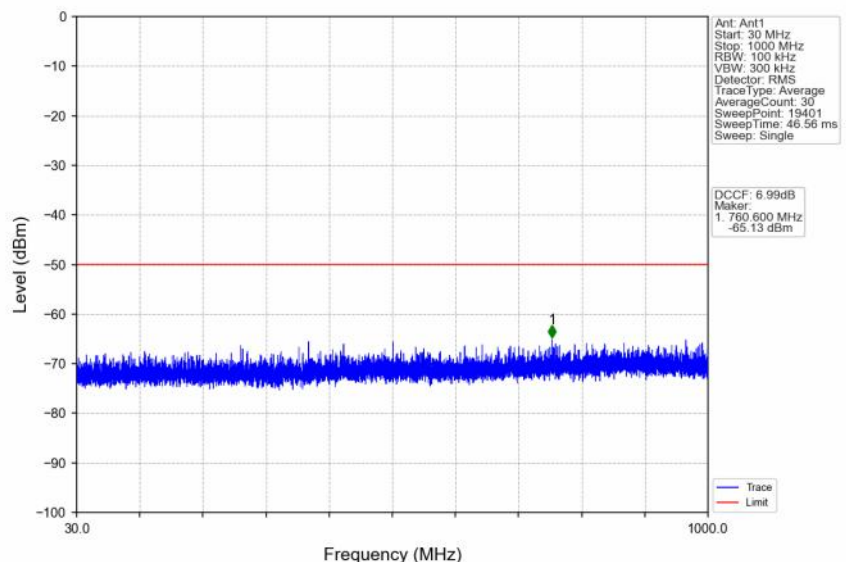
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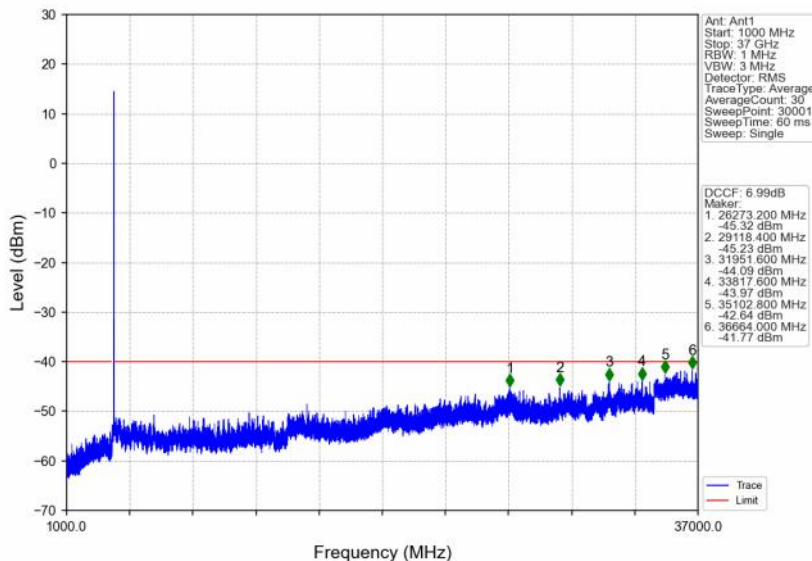


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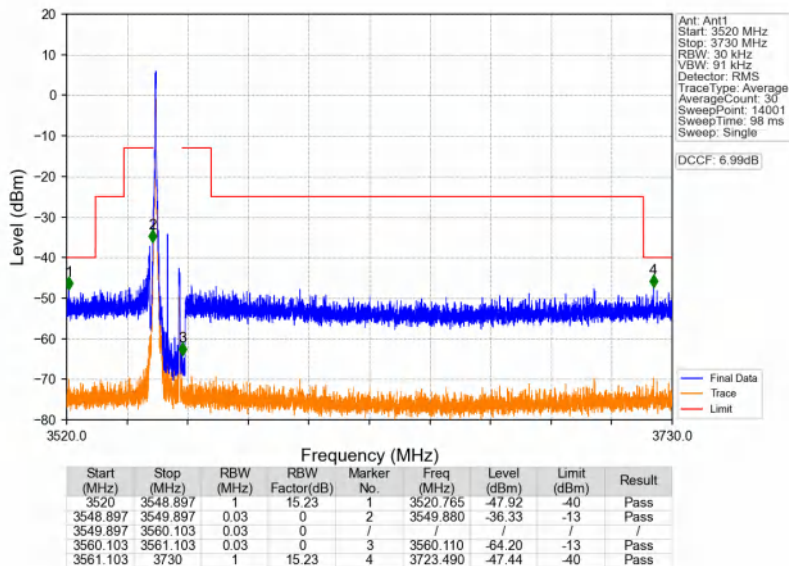
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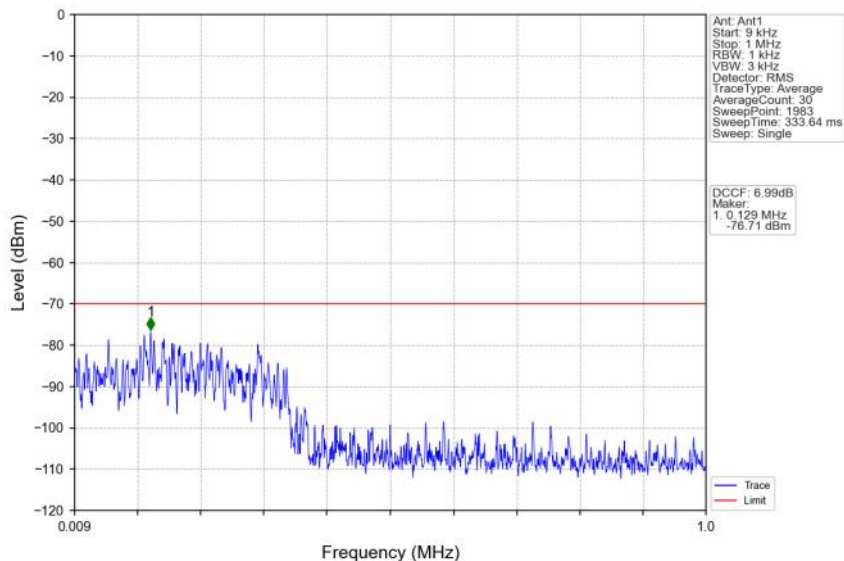


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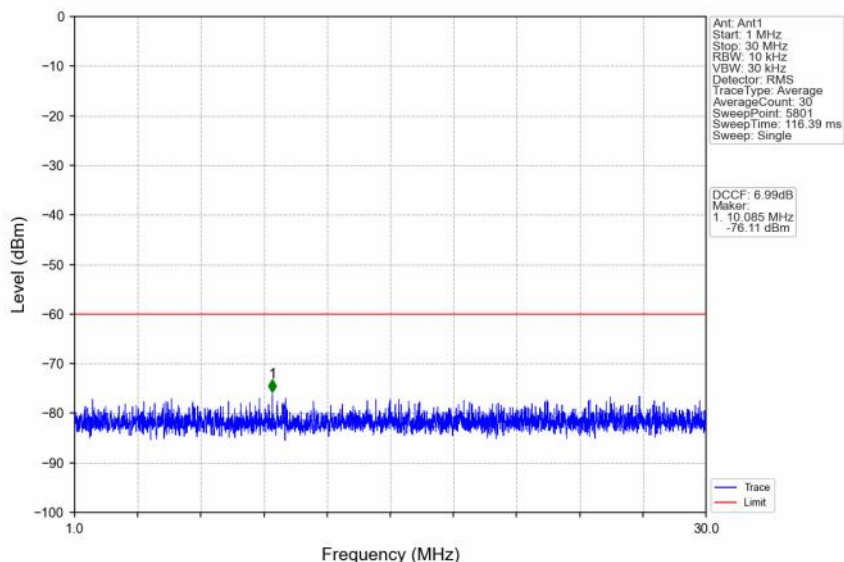
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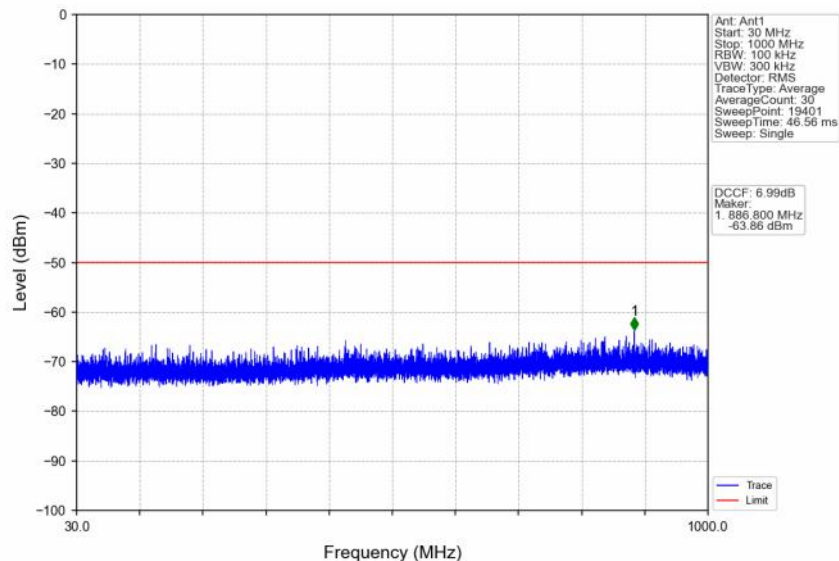


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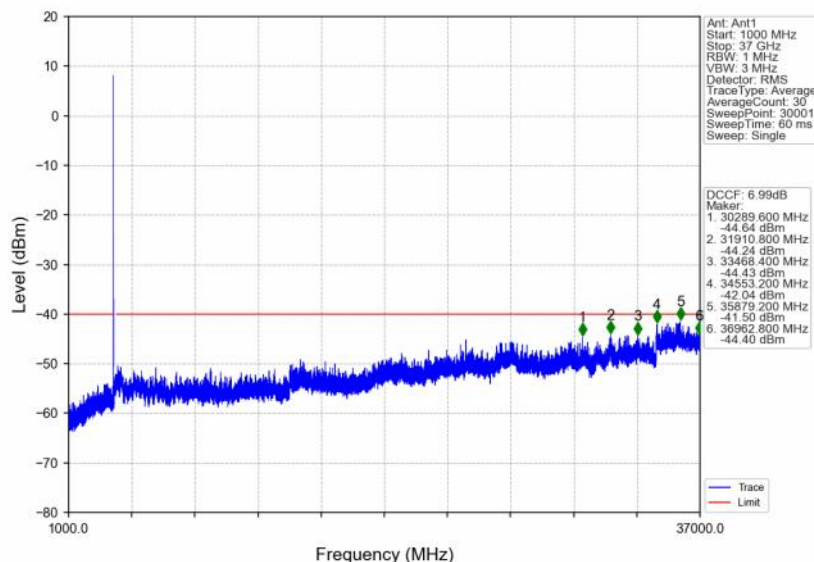
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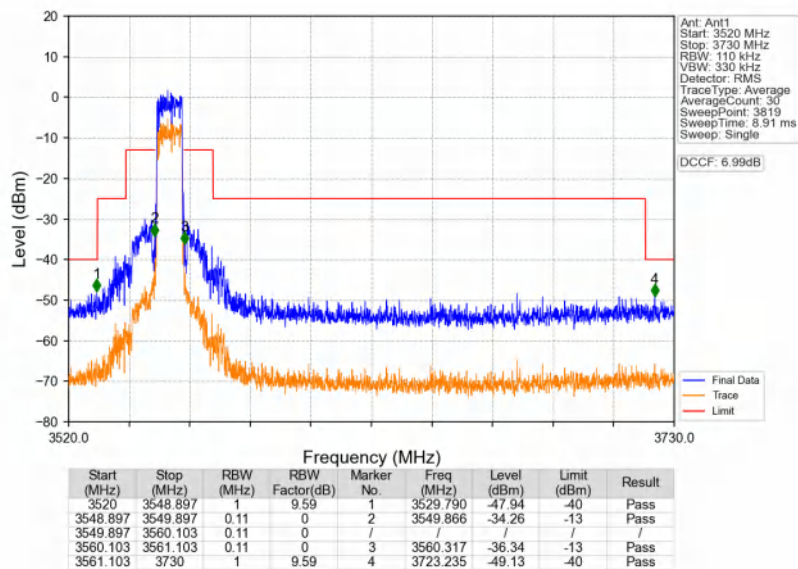


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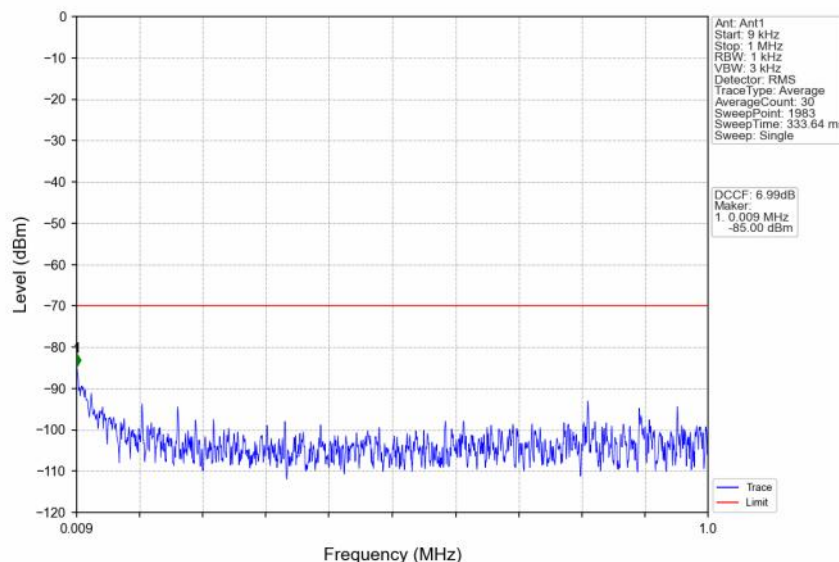
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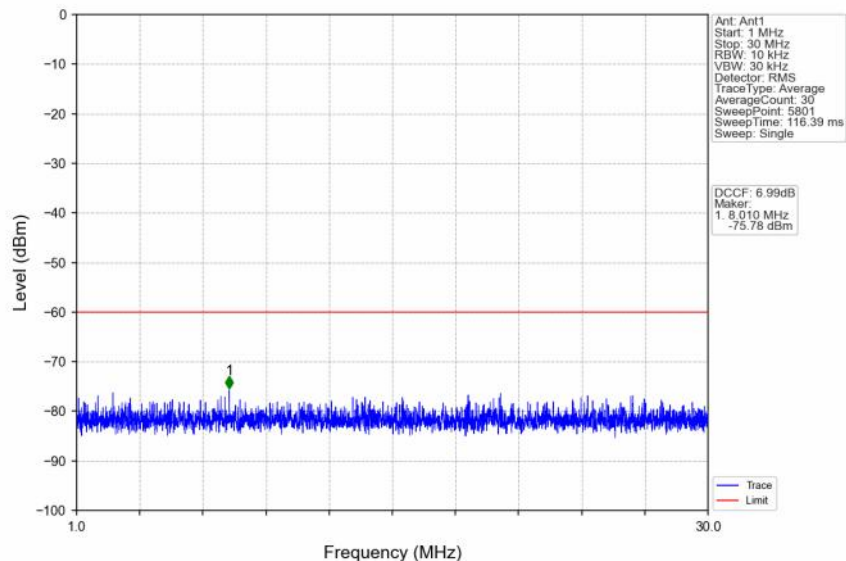


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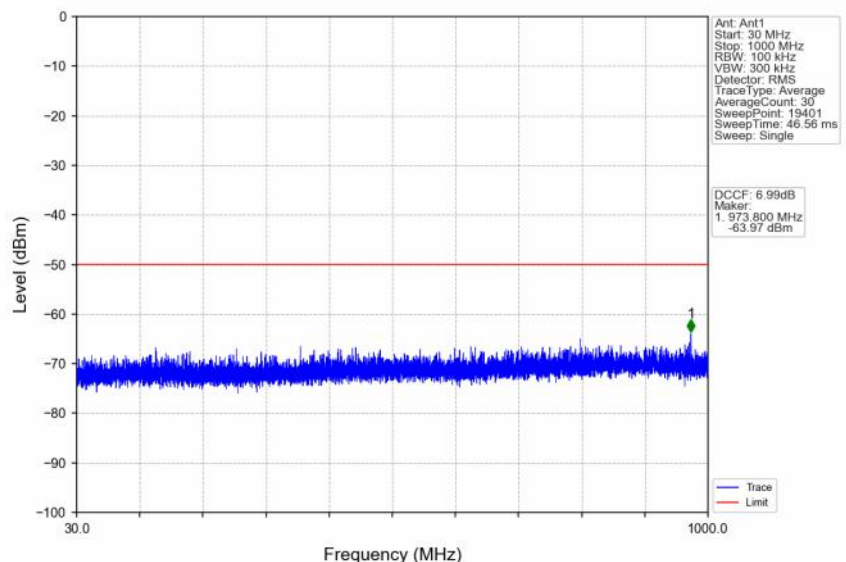
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n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_3555MHz_Outer_Full

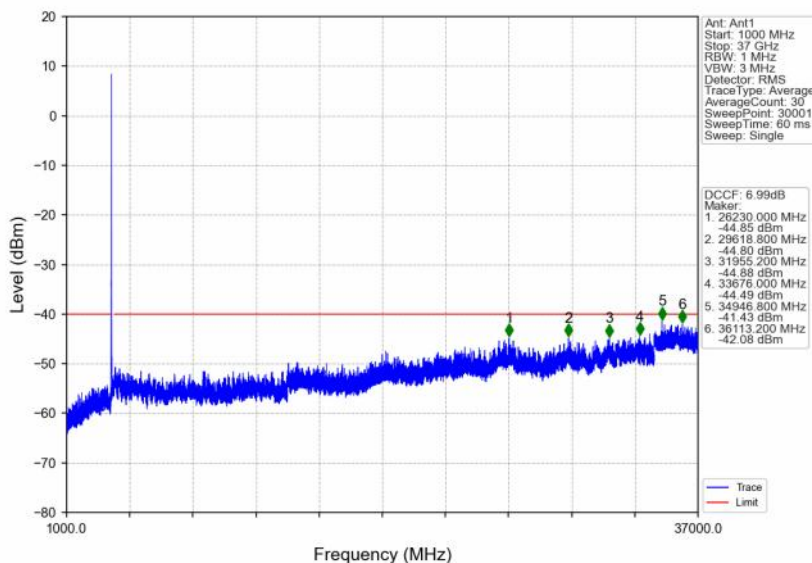


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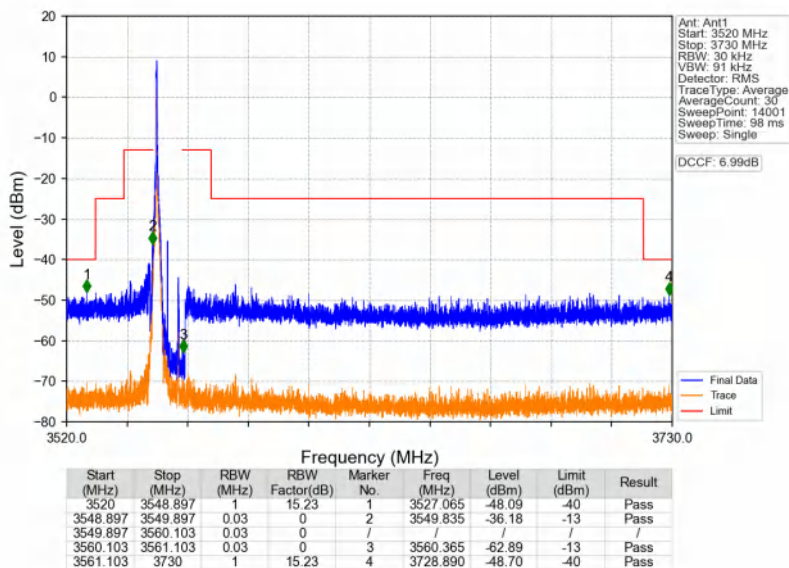
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n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_3555MHz_Outer_Full



n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_3555MHz_Inner_1RB_Left

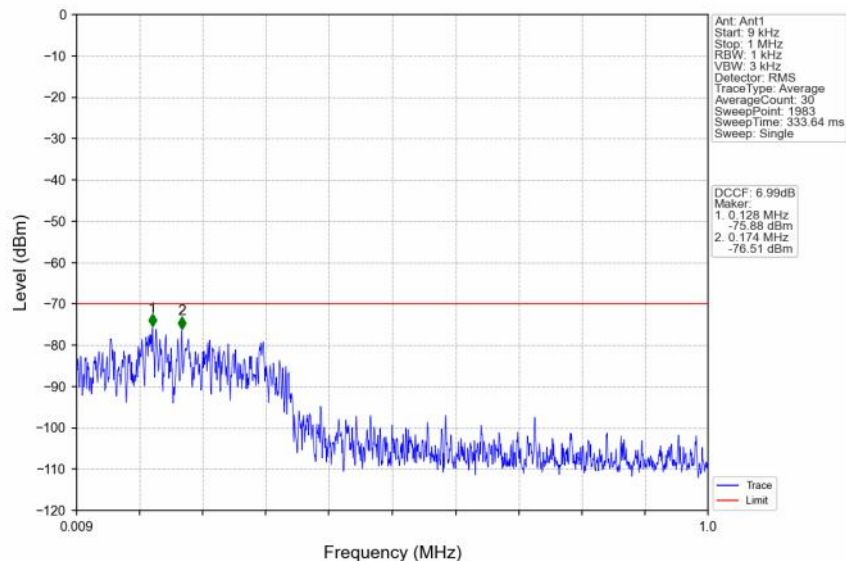


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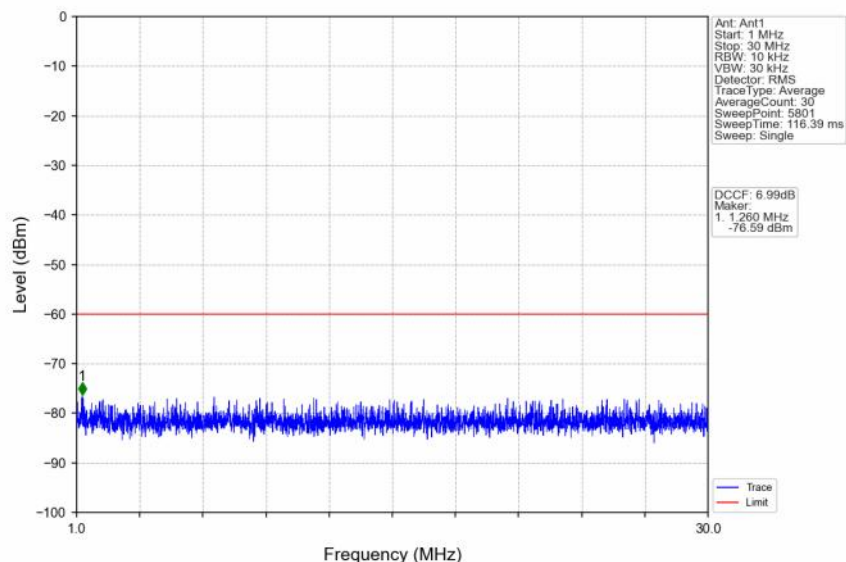
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n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_QPSK_3555MHz_Inner_1RB_Left



n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_QPSK_3555MHz_Inner_1RB_Left

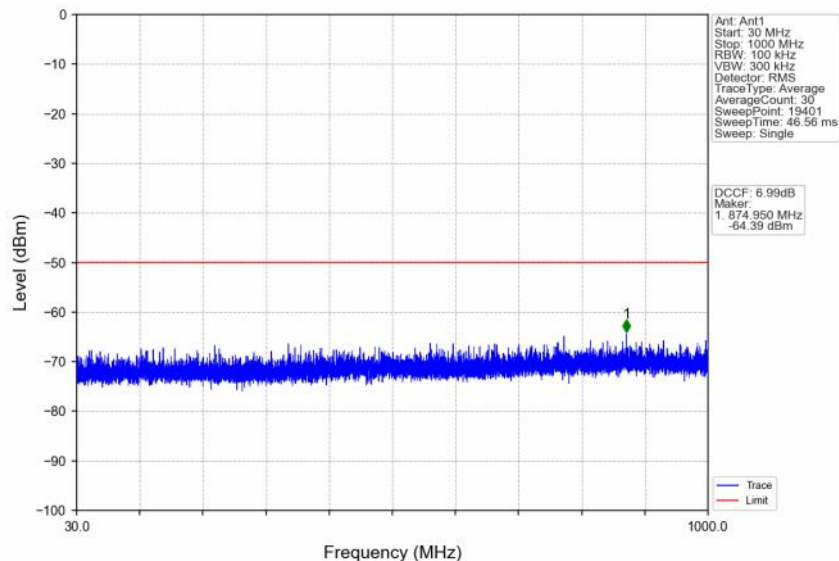


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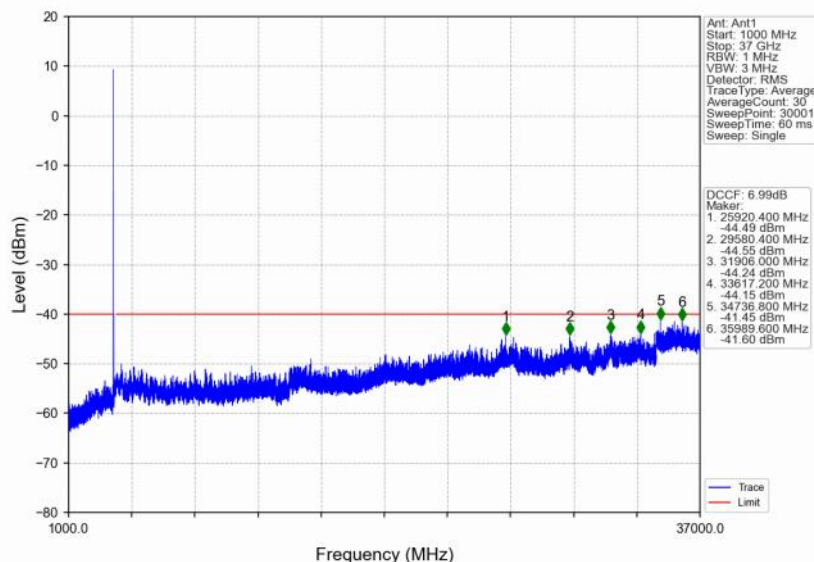
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n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_3555MHz_Inner_1RB_Left



n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_3555MHz_Inner_1RB_Left

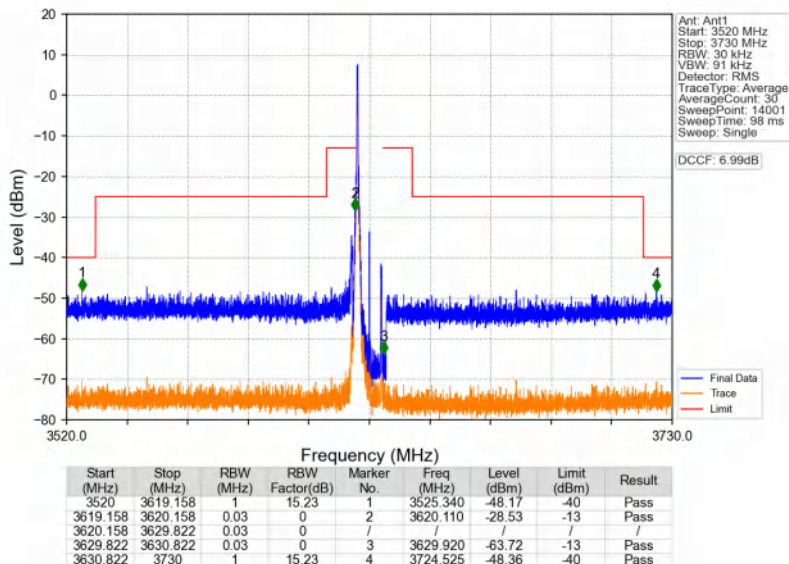


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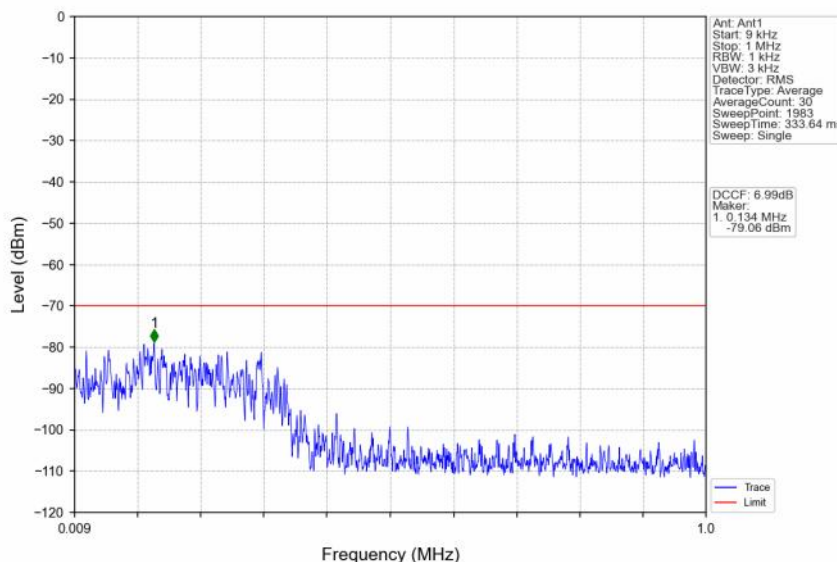
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n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_3624.99MHz_Edge_1RB_Left



n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_3624.99MHz_Edge_1RB_Left

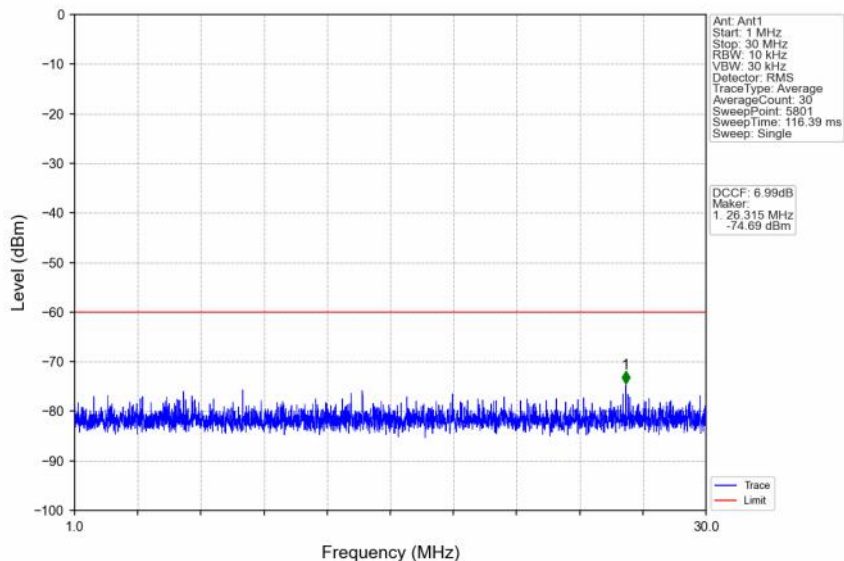


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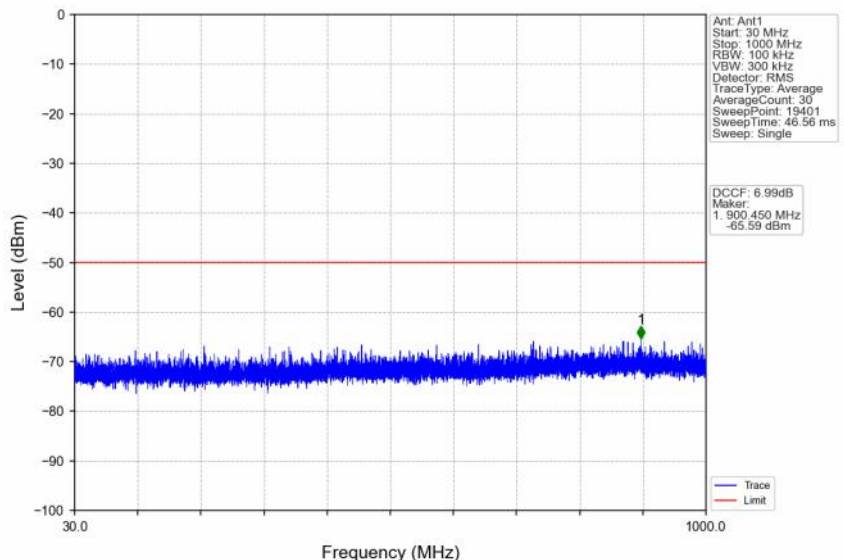
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n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_3624.99MHz_Edge_1RB_Left



n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_3624.99MHz_Edge_1RB_Left



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