

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	27.09	29.22	/	Pass
	3624.99	Outer_Full	27.14	29.18	/	Pass
	3684.99	Outer_Full	27.20	28.80	/	Pass
DFT-s-OFDM QPSK	3565.02	Outer_Full	27.06	28.86	/	Pass
	3624.99	Outer_Full	27.04	29.17	/	Pass
	3684.99	Outer_Full	27.01	29.02	/	Pass
DFT-s-OFDM 16 QAM	3565.02	Outer_Full	27.20	29.14	/	Pass
	3624.99	Outer_Full	27.05	29.25	/	Pass
	3684.99	Outer_Full	27.00	28.74	/	Pass
DFT-s-OFDM 64 QAM	3565.02	Outer_Full	26.95	29.05	/	Pass
	3624.99	Outer_Full	27.00	28.91	/	Pass
	3684.99	Outer_Full	27.06	29.25	/	Pass
DFT-s-OFDM 256 QAM	3565.02	Outer_Full	27.22	28.74	/	Pass
	3624.99	Outer_Full	26.69	29.00	/	Pass
	3684.99	Outer_Full	26.98	29.59	/	Pass
CP-OFDM QPSK	3565.02	Outer_Full	28.21	29.90	/	Pass
	3624.99	Outer_Full	27.95	30.00	/	Pass
	3684.99	Outer_Full	28.02	29.98	/	Pass
CP-OFDM 16 QAM	3565.02	Outer_Full	28.01	30.11	/	Pass
	3624.99	Outer_Full	28.05	29.75	/	Pass
	3684.99	Outer_Full	28.08	30.01	/	Pass
CP-OFDM 64 QAM	3565.02	Outer_Full	28.24	29.98	/	Pass
	3624.99	Outer_Full	28.15	29.95	/	Pass
	3684.99	Outer_Full	28.08	29.96	/	Pass
CP-OFDM 256 QAM	3565.02	Outer_Full	28.07	30.18	/	Pass
	3624.99	Outer_Full	27.98	30.02	/	Pass
	3684.99	Outer_Full	27.97	30.09	/	Pass

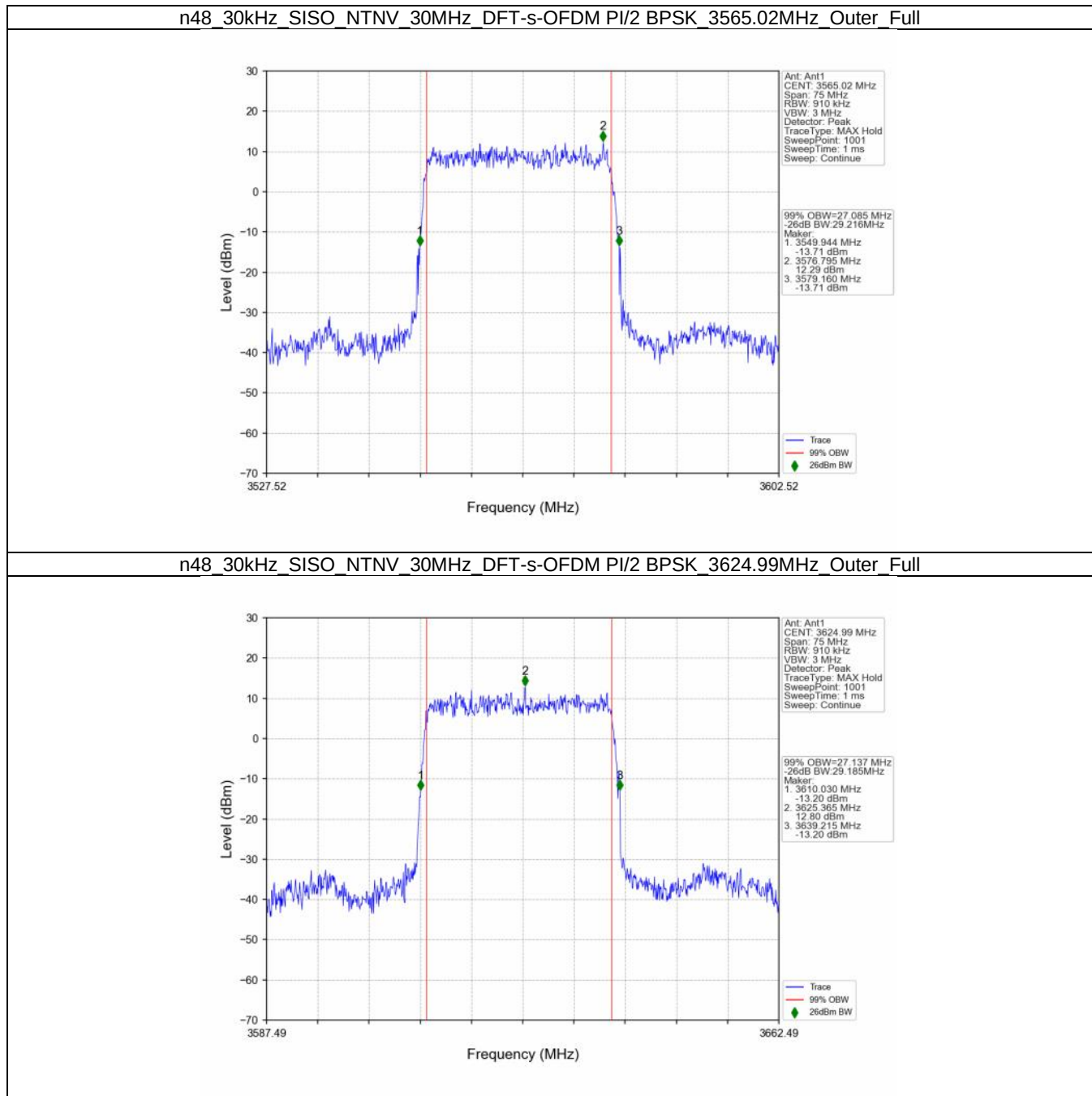


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5.3.2 Test Graph

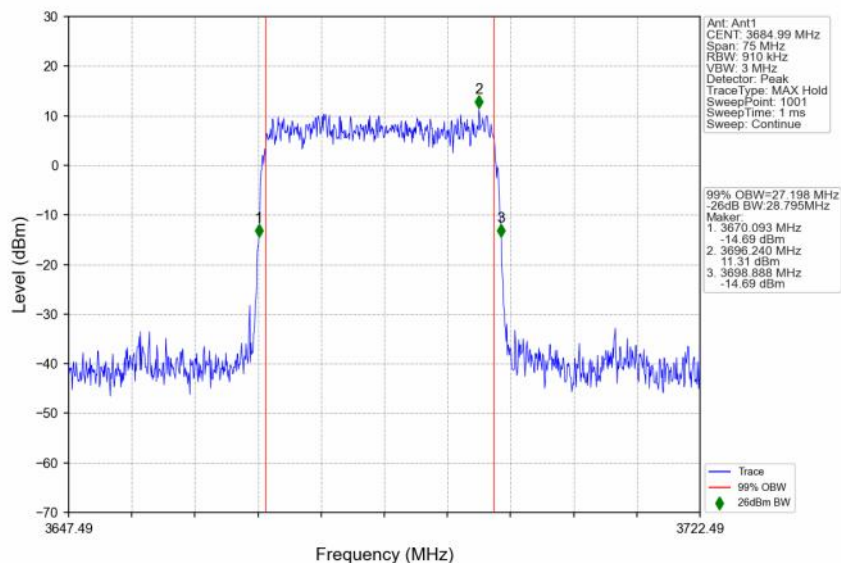


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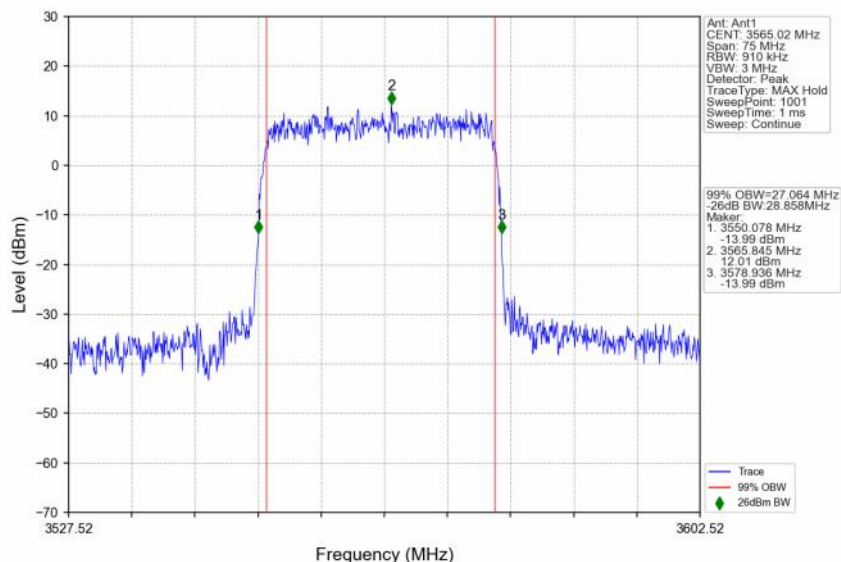
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n48_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM PI/2 BPSK_3684.99MHz_Outer_Full



n48_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM QPSK_3565.02MHz_Outer_Full

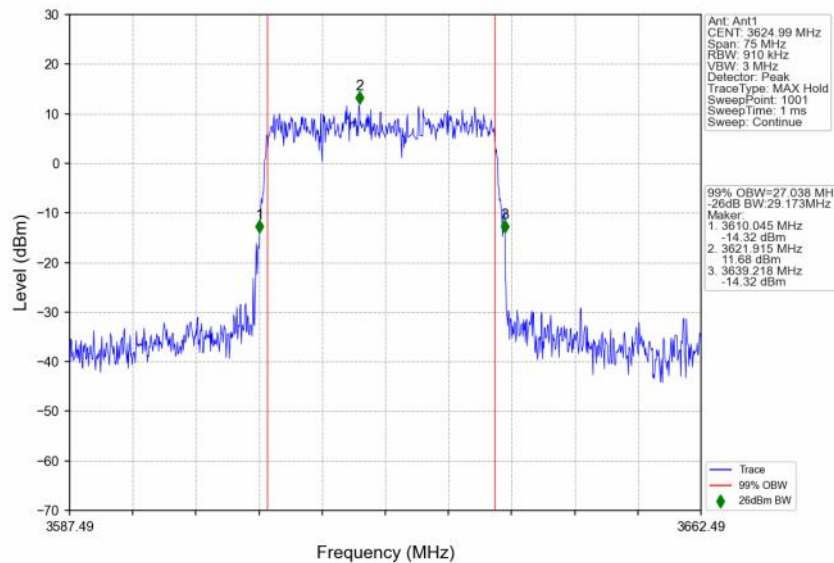


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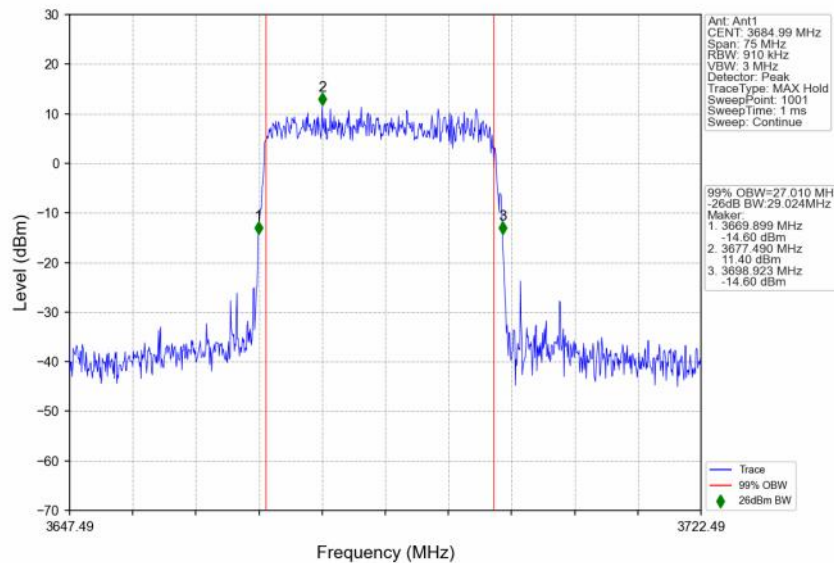
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n48_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM QPSK_3684.99MHz_Outer_Full

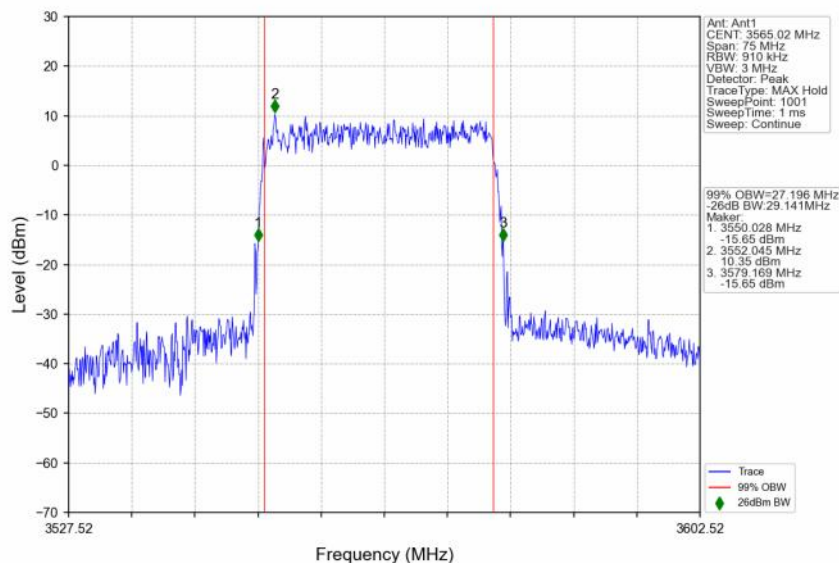


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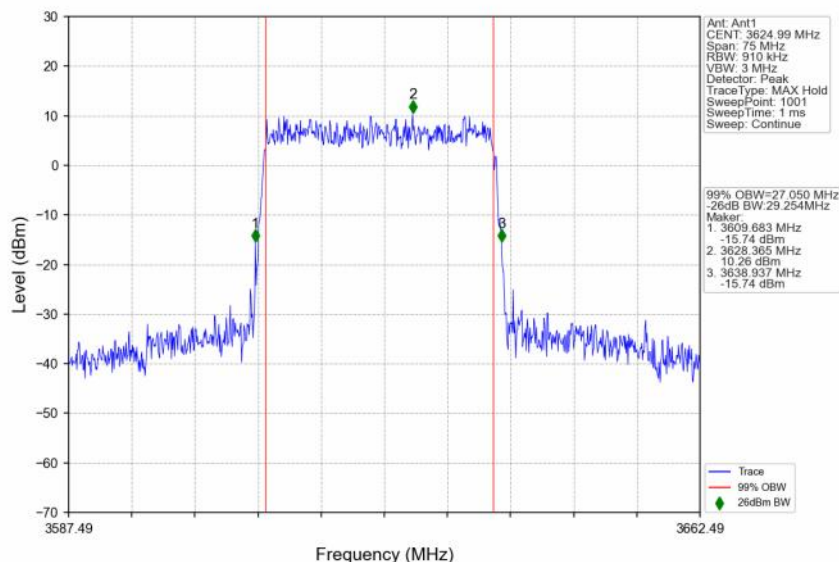
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n48_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_16_QAM_3624.99MHz_Outer_Full

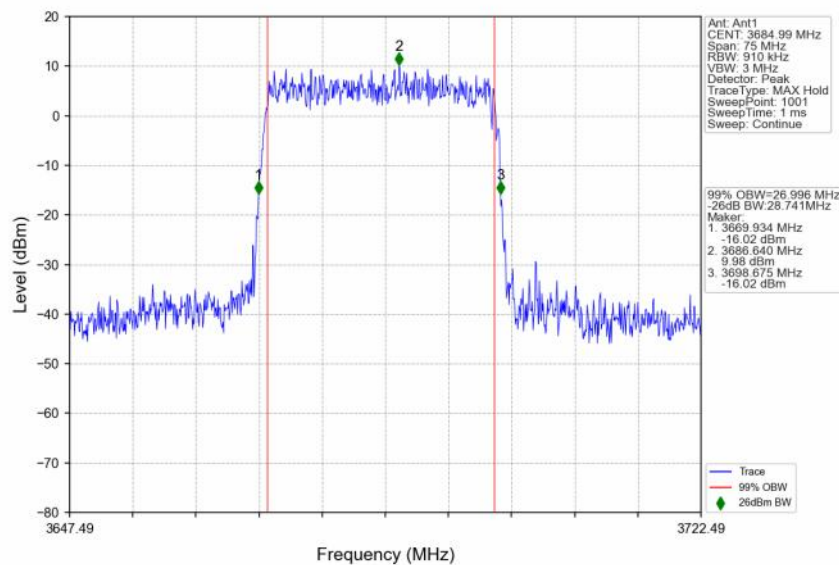


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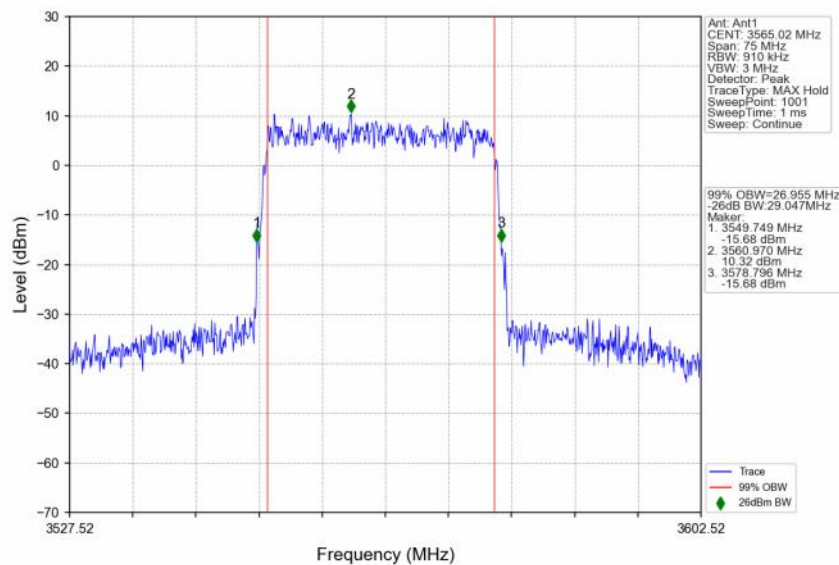
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n48_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM 16 QAM_3684.99MHz_Outer_Full



n48_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM 64 QAM_3565.02MHz_Outer_Full

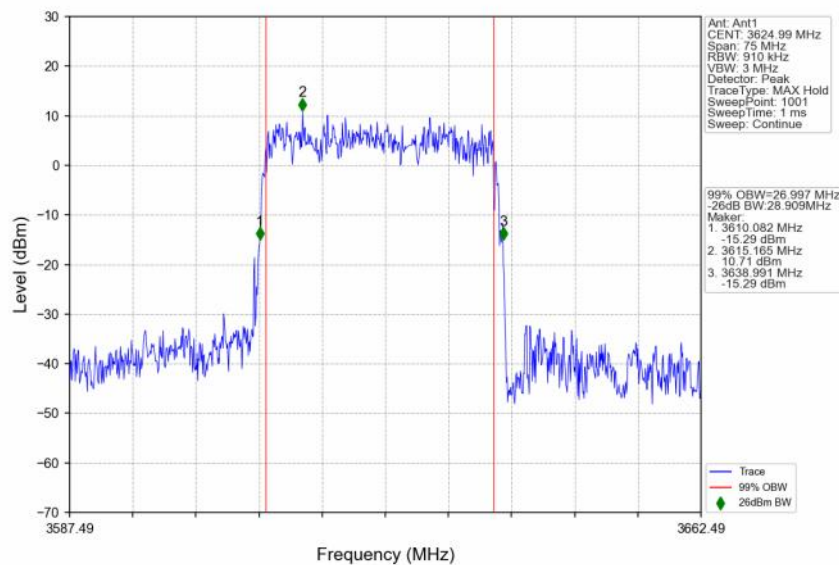


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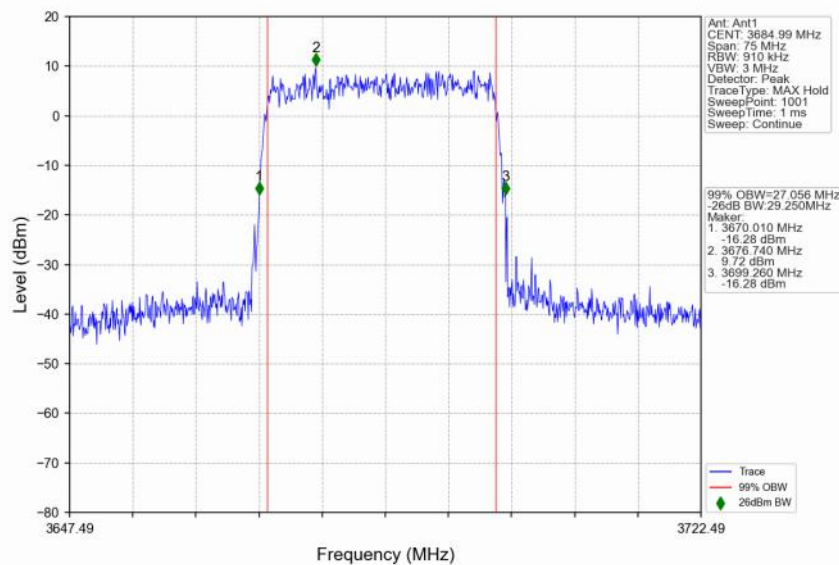
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n48_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_64_QAM_3684.99MHz_Outer_Full

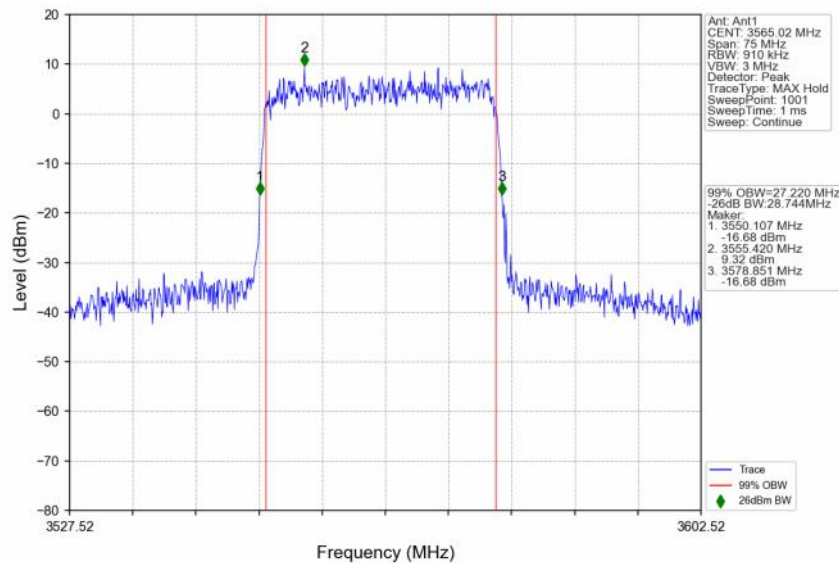


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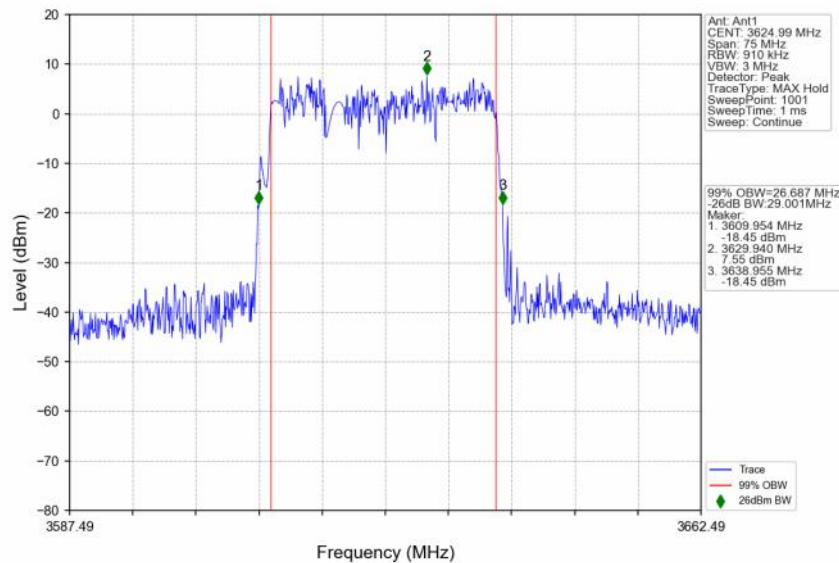
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n48_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM 256 QAM_3624.99MHz_Outer_Full

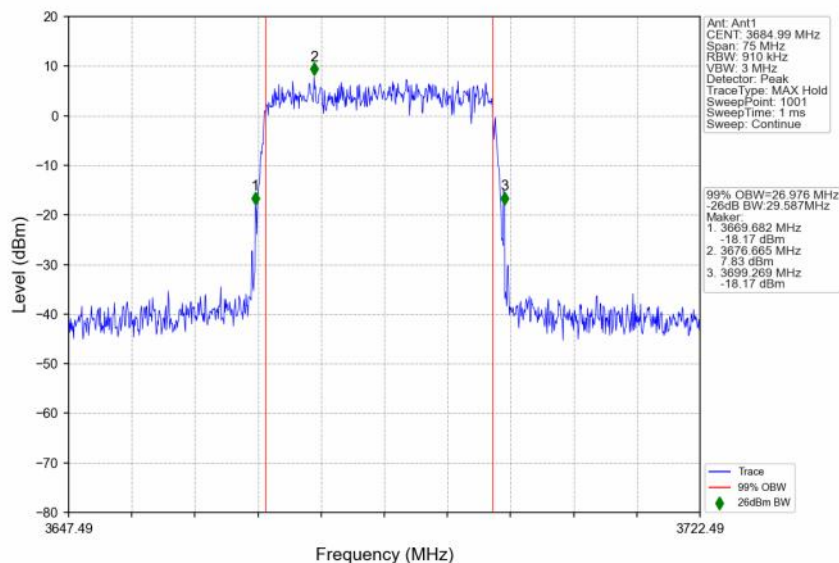


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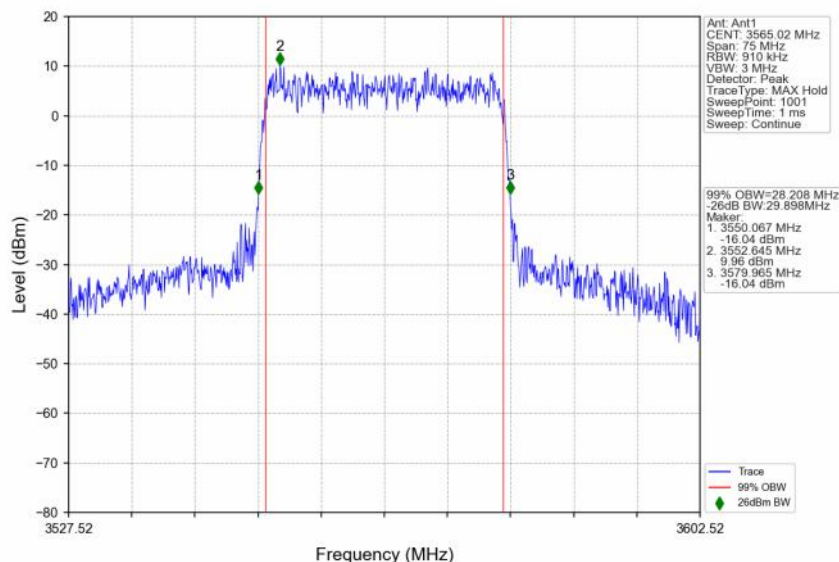
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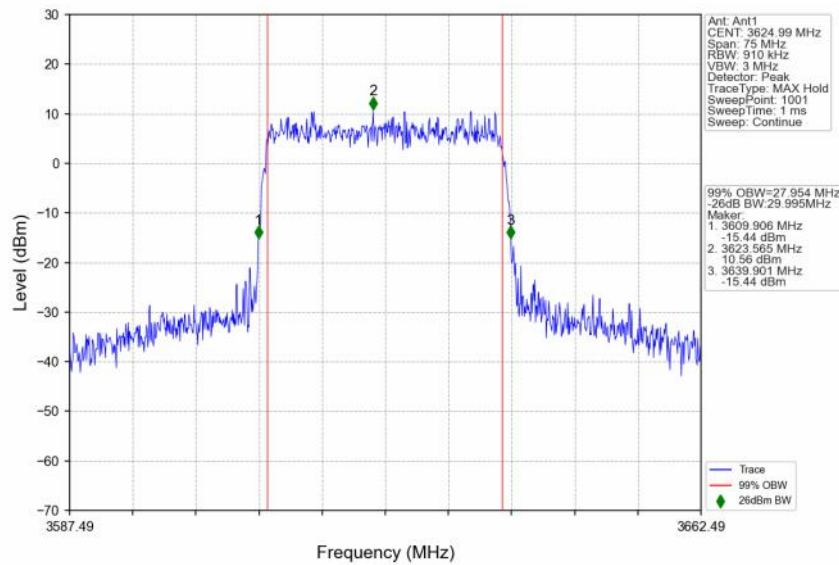


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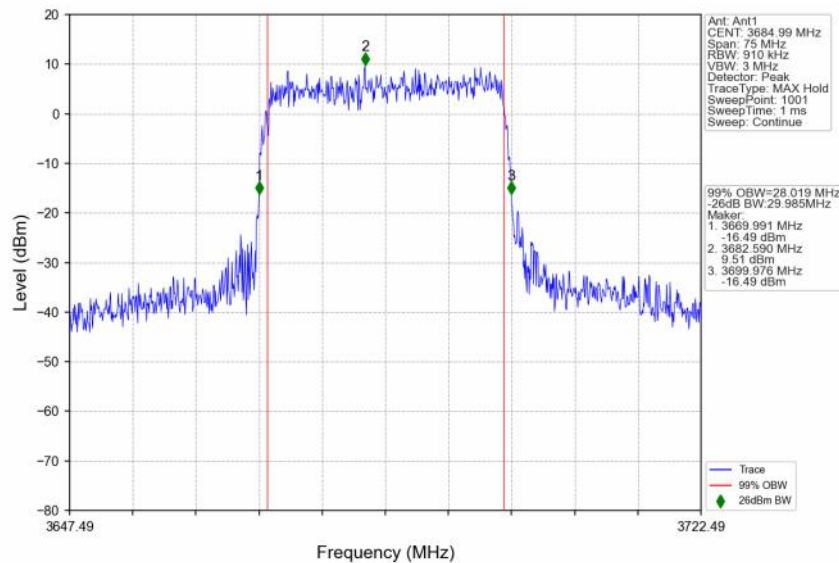
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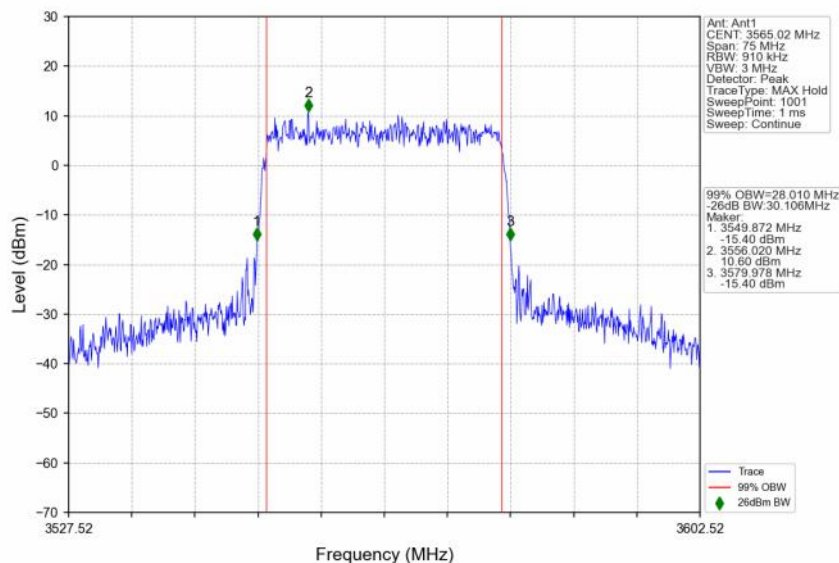


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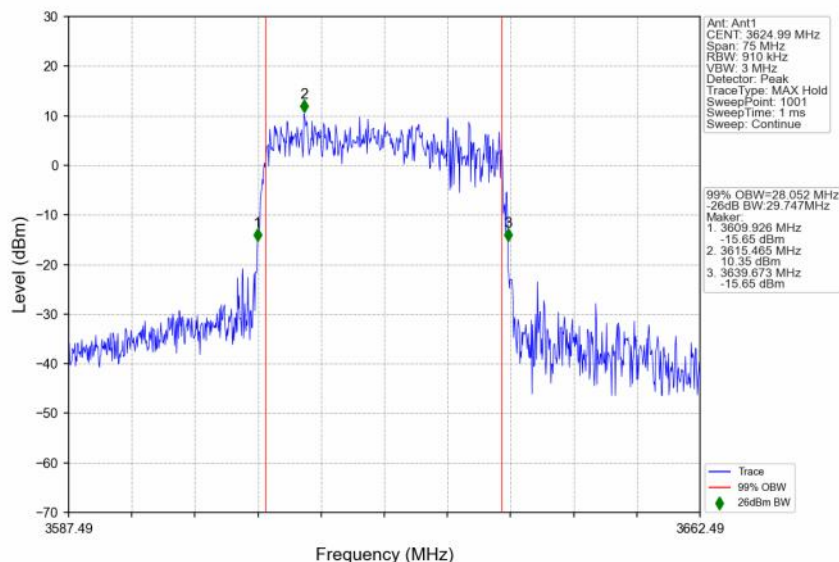
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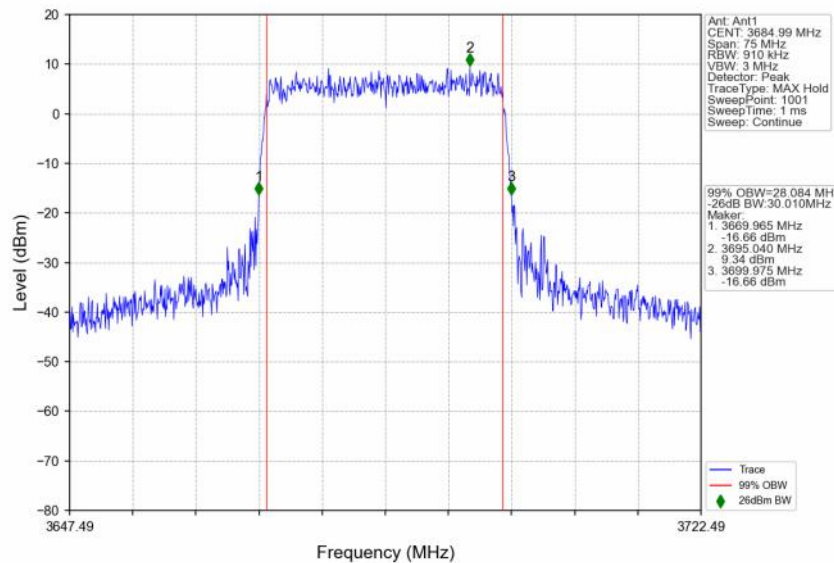


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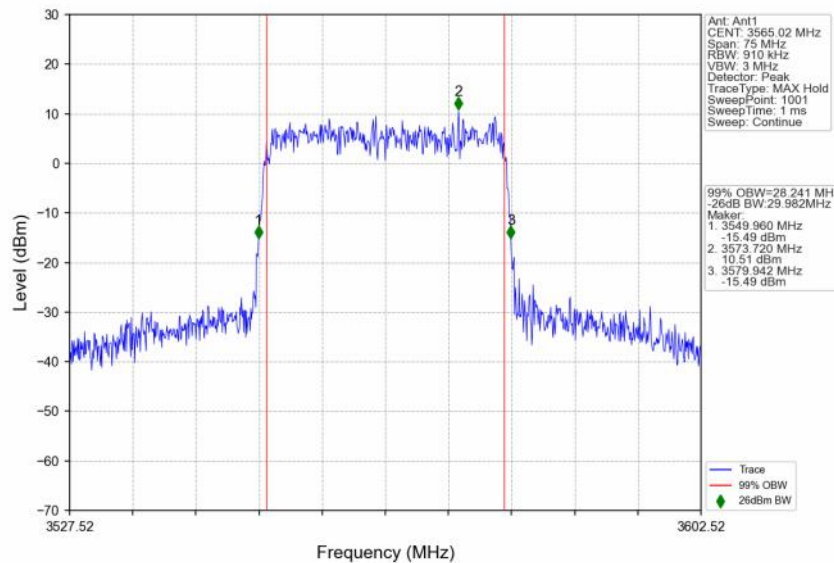
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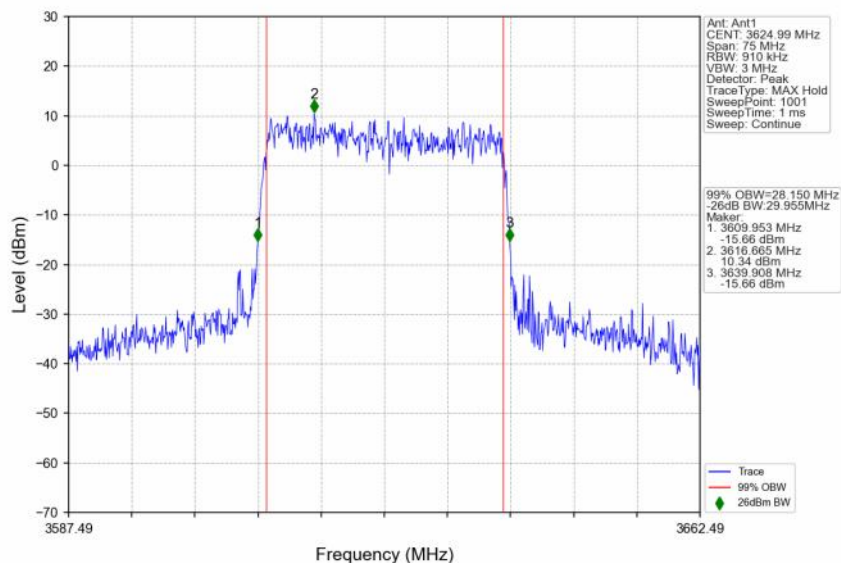


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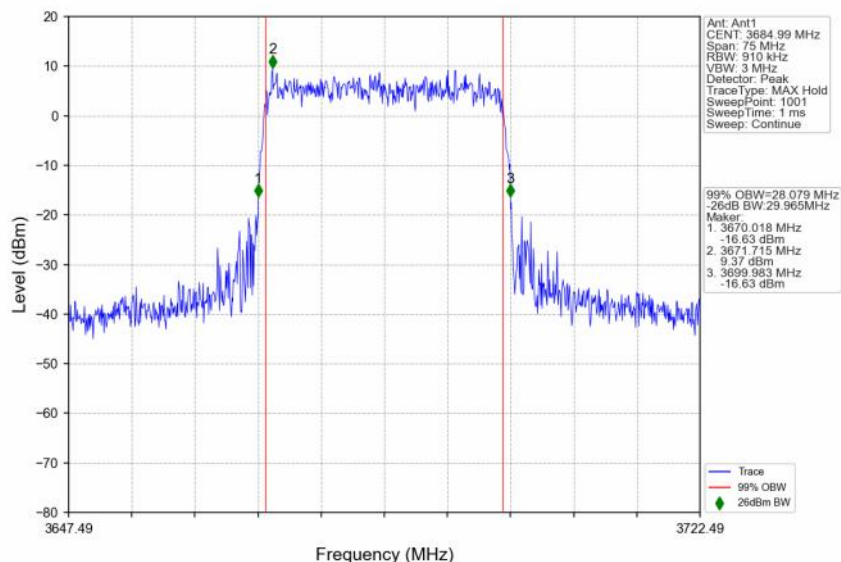
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n48_30kHz_SISO_NTNV_30MHz_CP-OFDM_64_QAM_3684.99MHz_Outer_Full

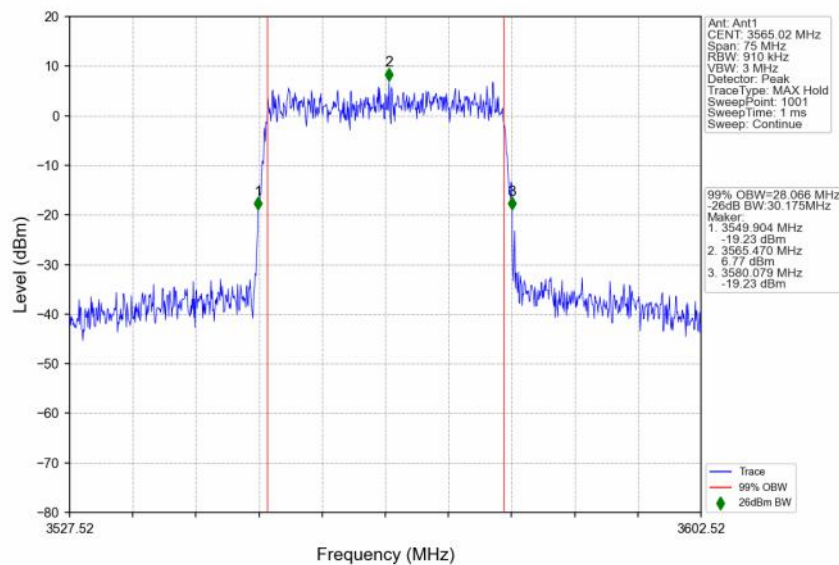


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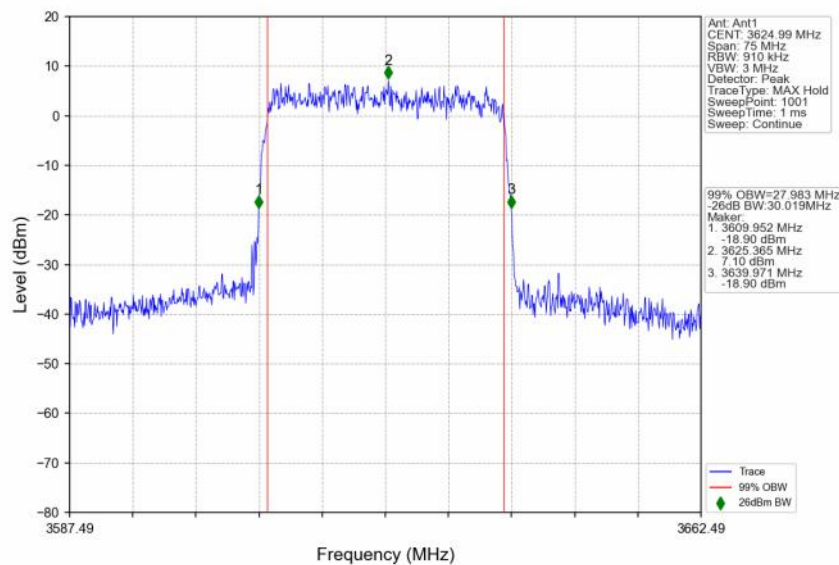
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n48_30kHz_SISO_NTNV_30MHz_CP-OFDM 256 QAM_3565.02MHz_Outer_Full



n48_30kHz_SISO_NTNV_30MHz_CP-OFDM 256 QAM_3624.99MHz_Outer_Full

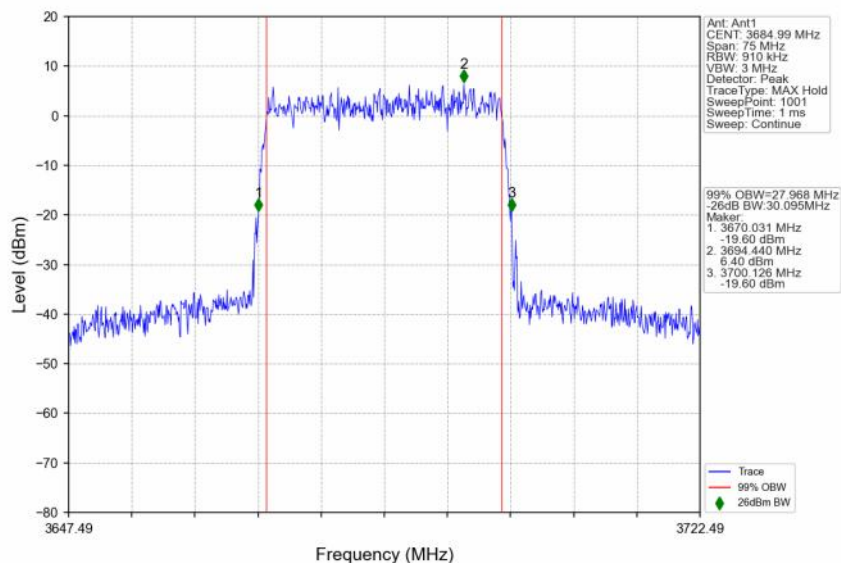


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n48_30kHz_SISO_NTNV_30MHz_CP-OFDM 256 QAM_3684.99MHz_Outer_Full



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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	36.06	38.57	/	Pass
	3624.99	Outer_Full	35.84	38.45	/	Pass
	3679.98	Outer_Full	36.15	38.50	/	Pass
DFT-s-OFDM QPSK	3570	Outer_Full	36.10	38.75	/	Pass
	3624.99	Outer_Full	35.89	38.45	/	Pass
	3679.98	Outer_Full	35.90	38.48	/	Pass
DFT-s-OFDM 16 QAM	3570	Outer_Full	36.06	38.33	/	Pass
	3624.99	Outer_Full	35.98	38.51	/	Pass
	3679.98	Outer_Full	35.90	38.82	/	Pass
DFT-s-OFDM 64 QAM	3570	Outer_Full	35.95	38.48	/	Pass
	3624.99	Outer_Full	36.12	38.61	/	Pass
	3679.98	Outer_Full	36.05	38.42	/	Pass
DFT-s-OFDM 256 QAM	3570	Outer_Full	36.11	38.78	/	Pass
	3624.99	Outer_Full	36.02	38.79	/	Pass
	3679.98	Outer_Full	36.03	38.41	/	Pass
CP-OFDM QPSK	3570	Outer_Full	38.16	40.64	/	Pass
	3624.99	Outer_Full	38.07	40.51	/	Pass
	3679.98	Outer_Full	38.03	40.34	/	Pass
CP-OFDM 16 QAM	3570	Outer_Full	38.18	40.50	/	Pass
	3624.99	Outer_Full	37.86	40.53	/	Pass
	3679.98	Outer_Full	38.19	40.66	/	Pass
CP-OFDM 64 QAM	3570	Outer_Full	38.07	40.60	/	Pass
	3624.99	Outer_Full	37.84	40.67	/	Pass
	3679.98	Outer_Full	38.00	40.72	/	Pass
CP-OFDM 256 QAM	3570	Outer_Full	38.06	40.48	/	Pass
	3624.99	Outer_Full	37.98	40.61	/	Pass
	3679.98	Outer_Full	38.03	40.65	/	Pass

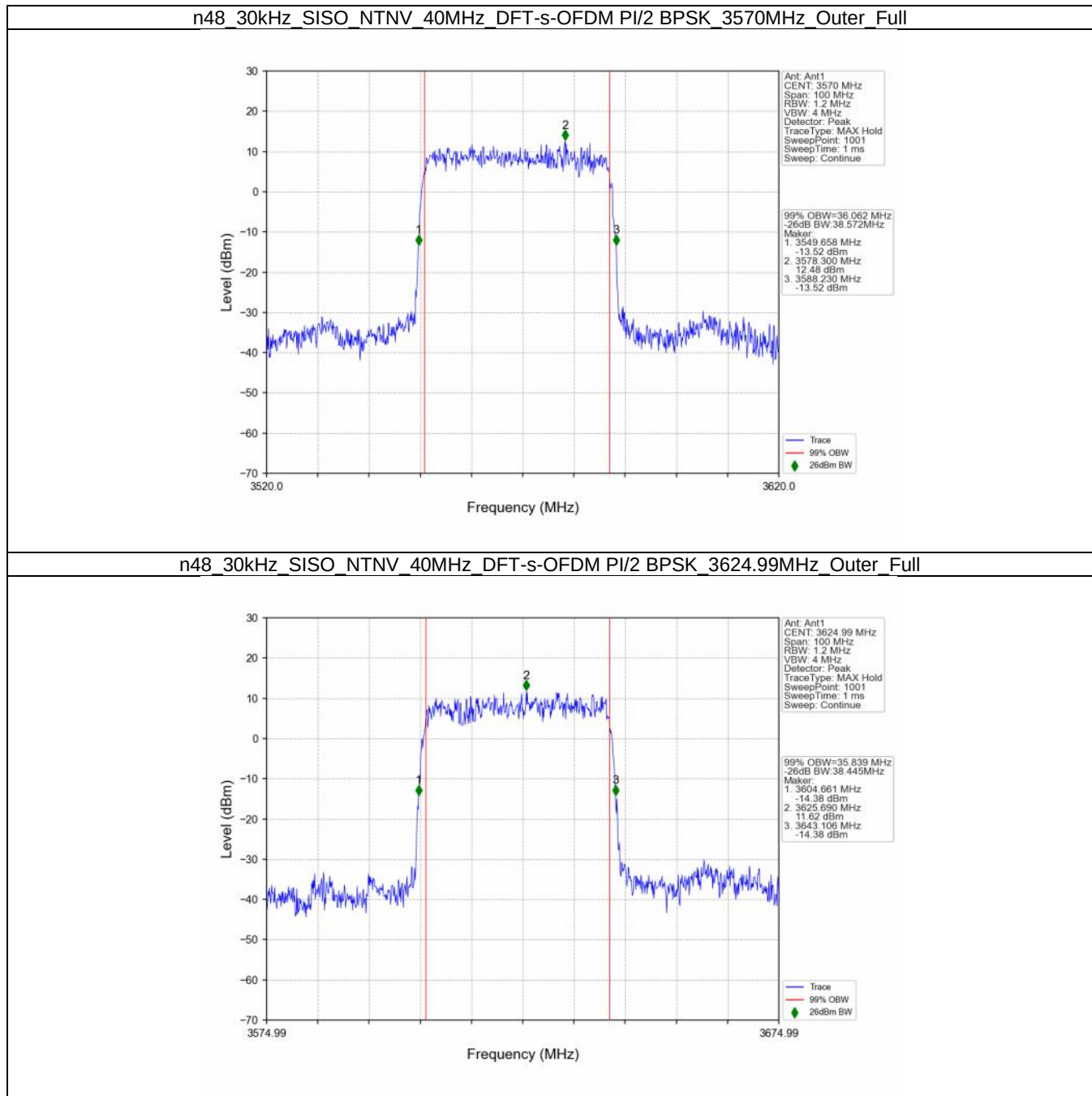


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5.4.2 Test Graph

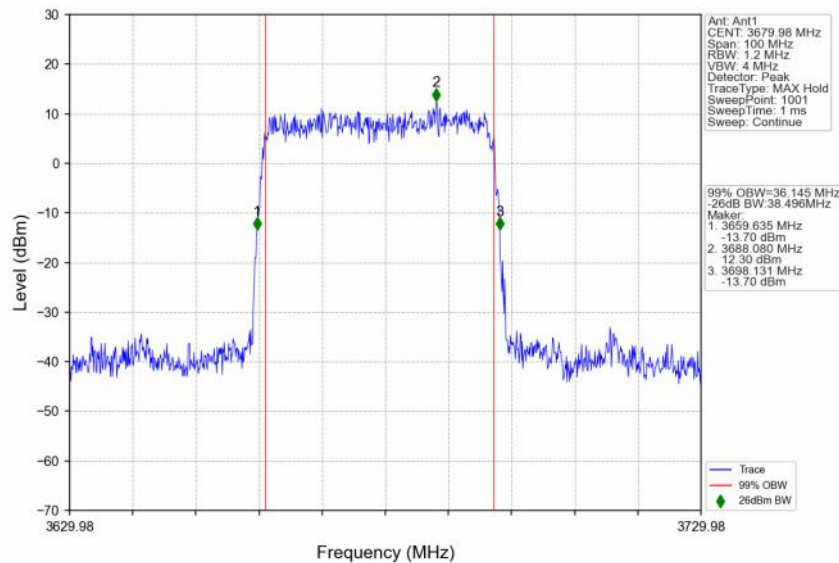


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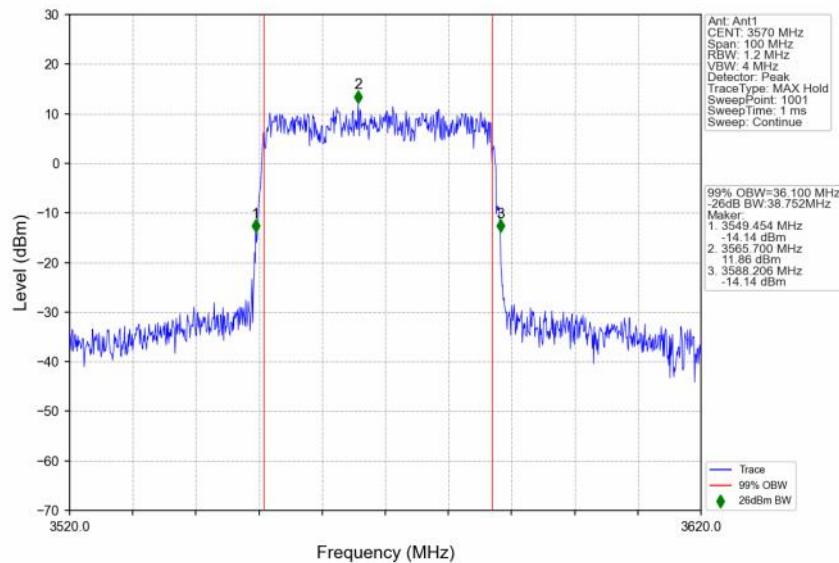
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n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM PI/2 BPSK_3679.98MHz_Outer_Full



n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM QPSK_3570MHz_Outer_Full

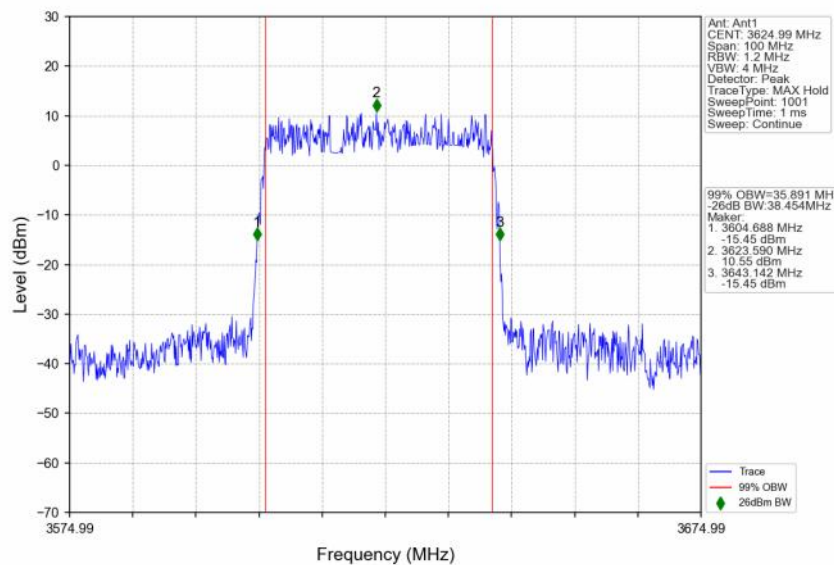


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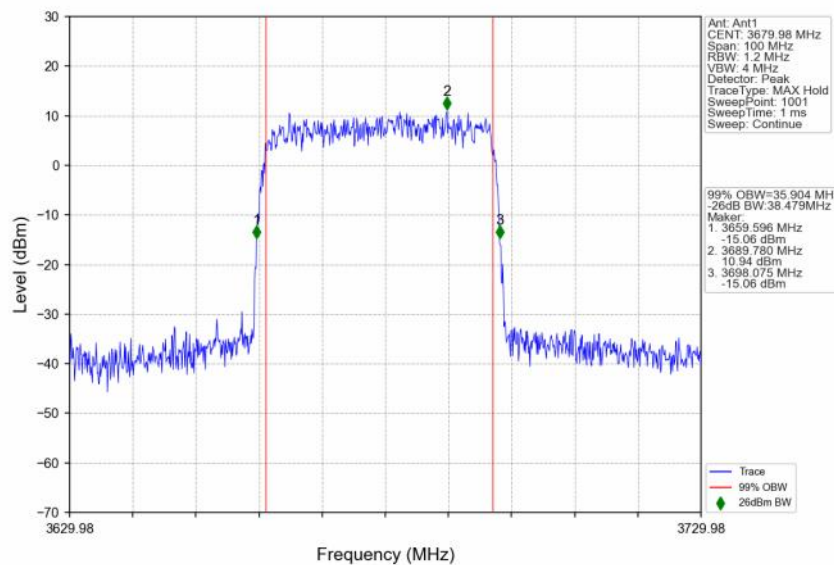
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n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM QPSK_3624.99MHz_Outer_Full



n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM QPSK_3679.98MHz_Outer_Full

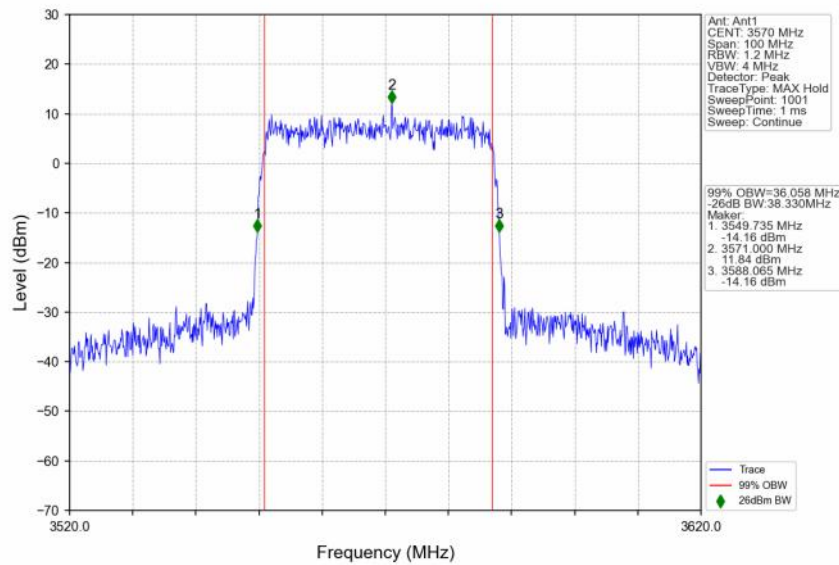


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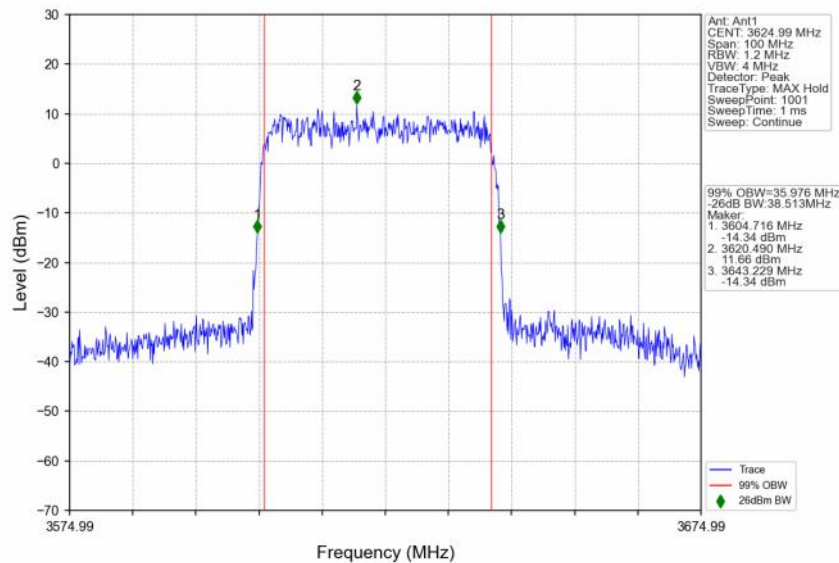
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n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_16_QAM_3570MHz_Outer_Full



n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_16_QAM_3624.99MHz_Outer_Full

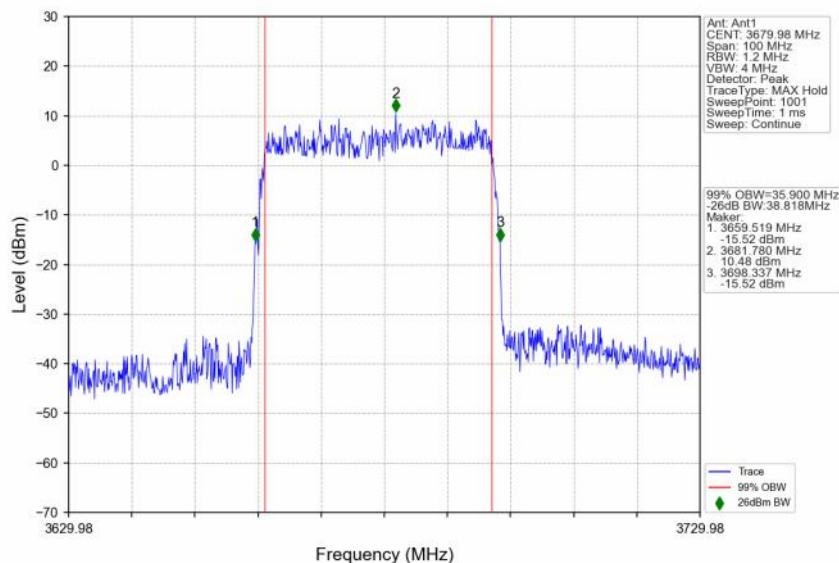


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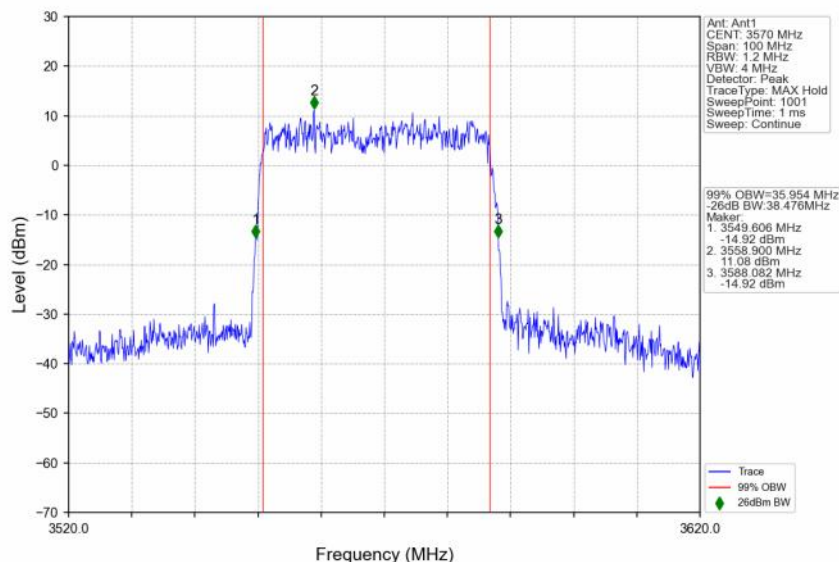
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n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM 16 QAM_3679.98MHz_Outer_Full



n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM 64 QAM_3570MHz_Outer_Full

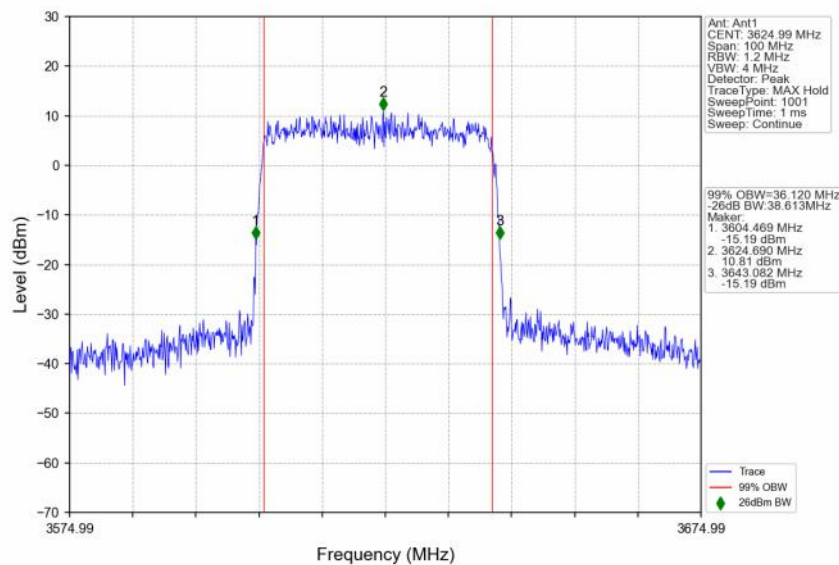


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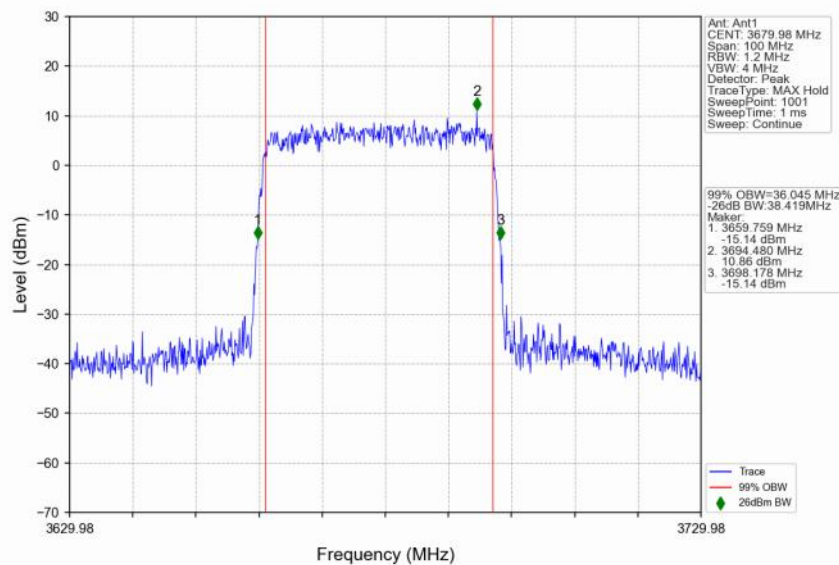
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n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_64_QAM_3679.98MHz_Outer_Full

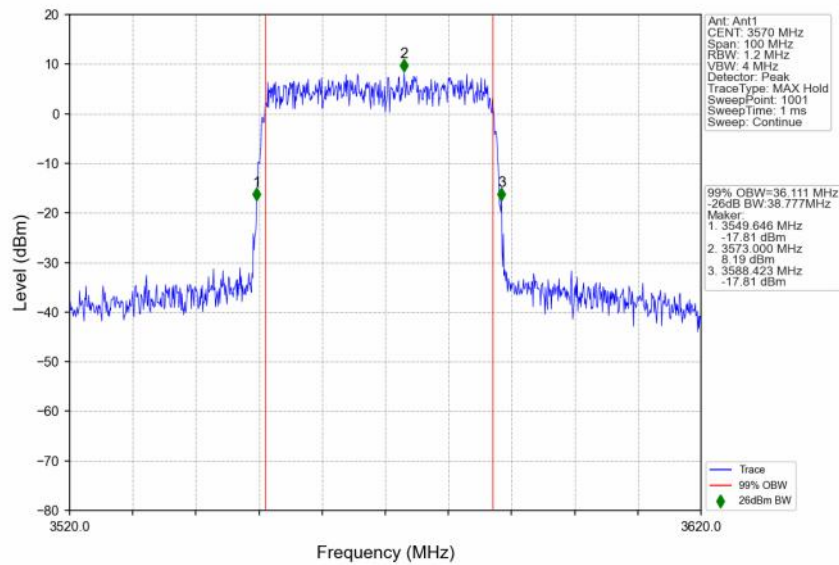


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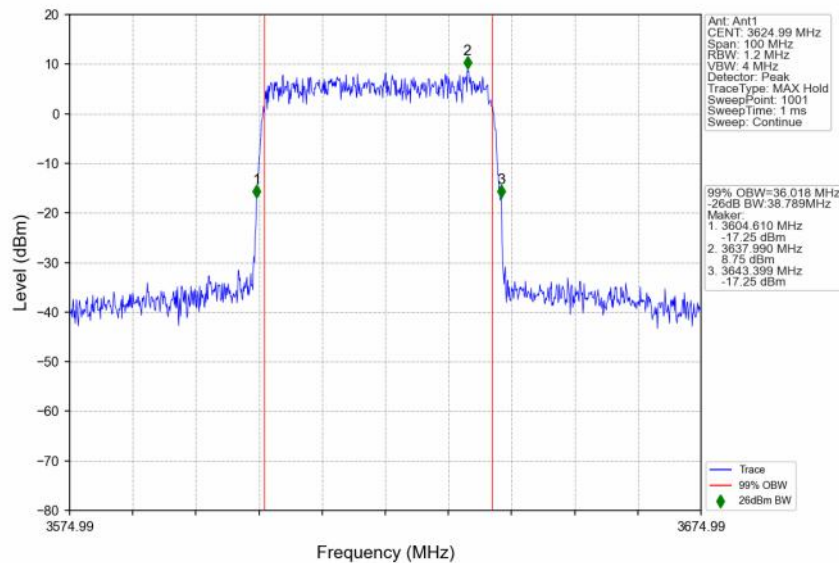
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n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM 256 QAM 3570MHz_Outer_Full



n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM 256 QAM 3624.99MHz_Outer_Full

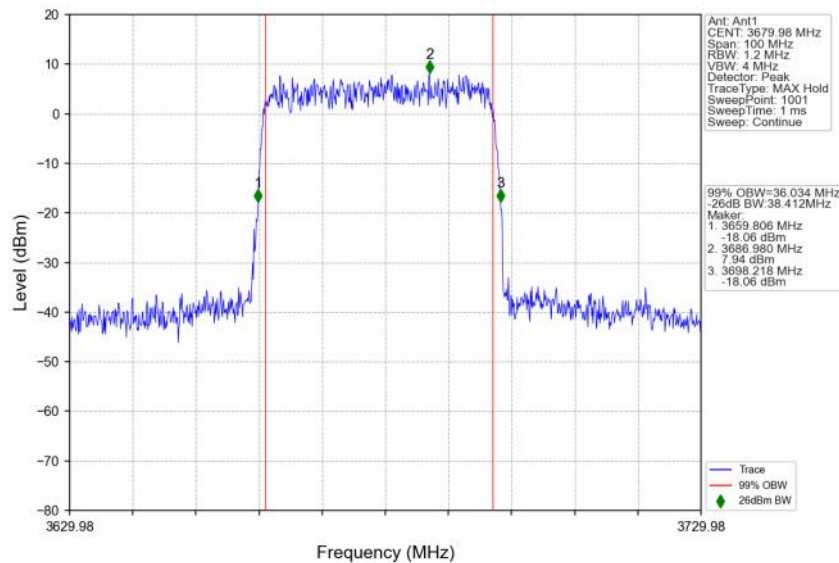


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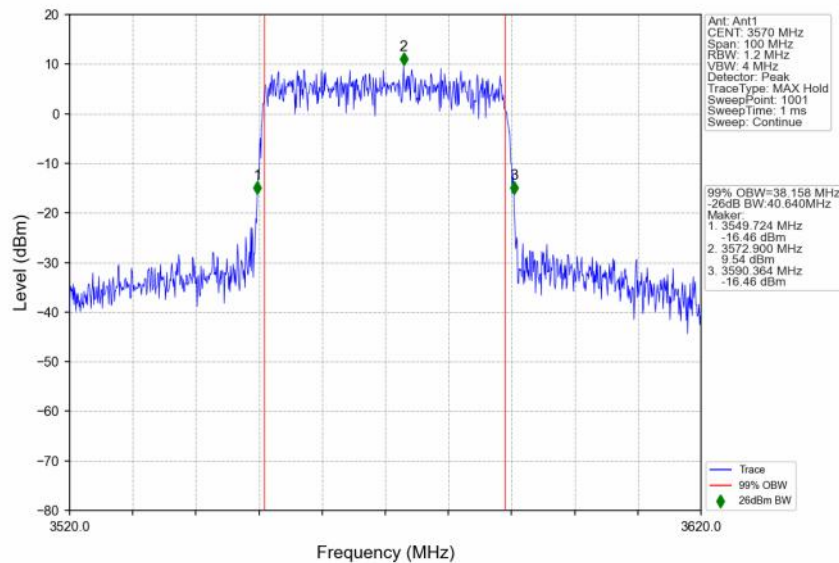
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n48_30kHz_SISO_NTNV_40MHz_CP-OFDM QPSK_3570MHz_Outer_Full

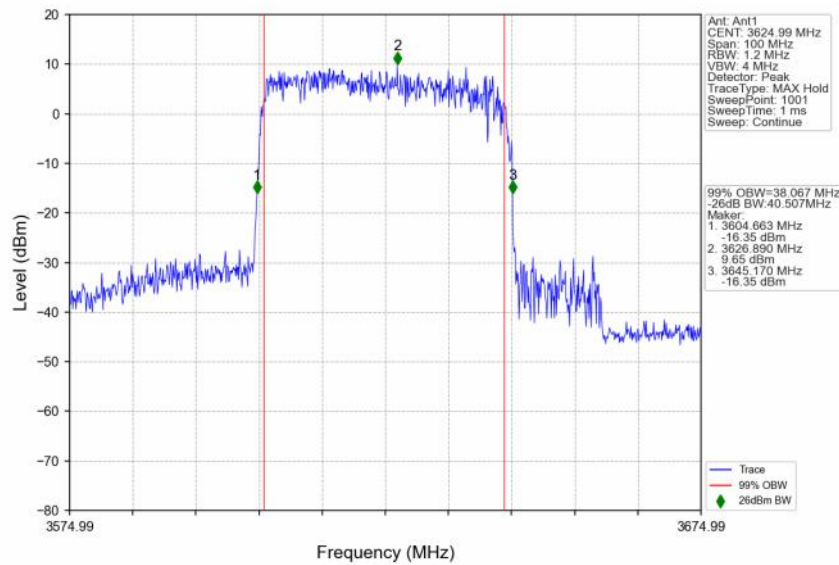


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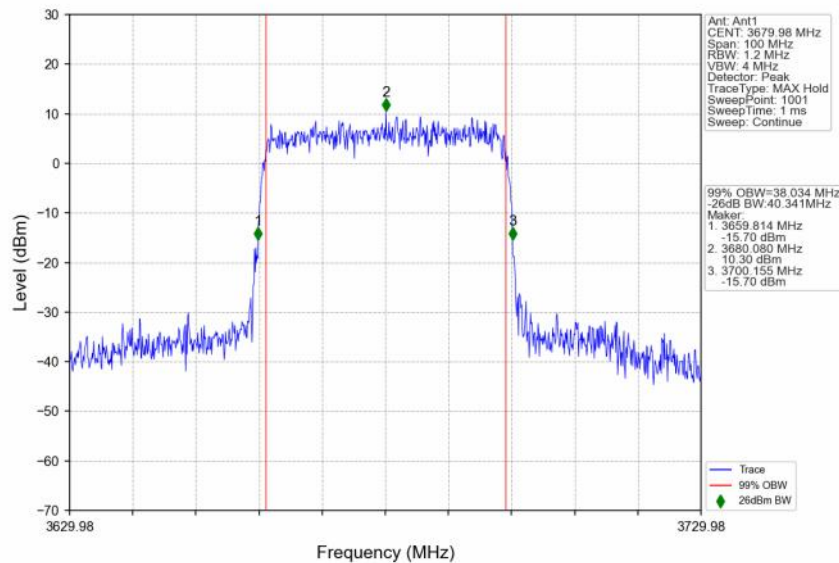
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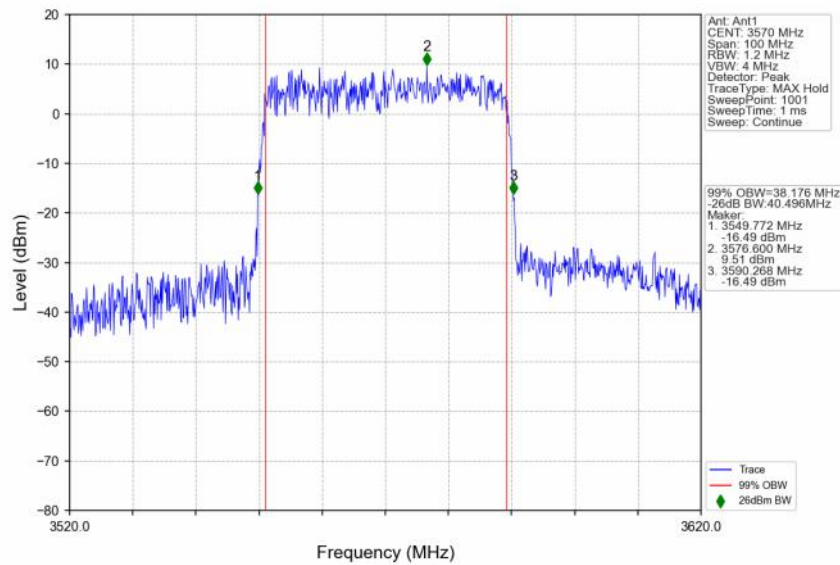


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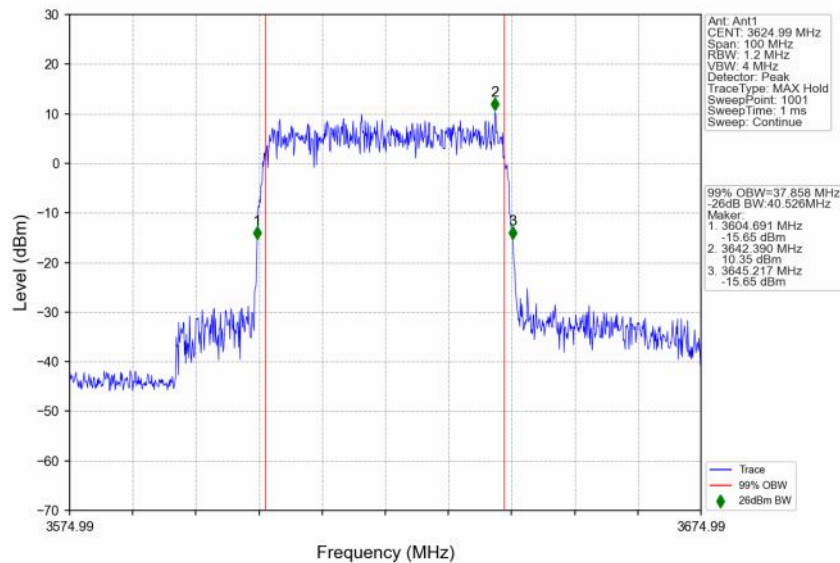
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n48_30kHz_SISO_NTNV_40MHz_CP-OFDM_16_QAM_3570MHz_Outer_Full



n48_30kHz_SISO_NTNV_40MHz_CP-OFDM_16_QAM_3624.99MHz_Outer_Full

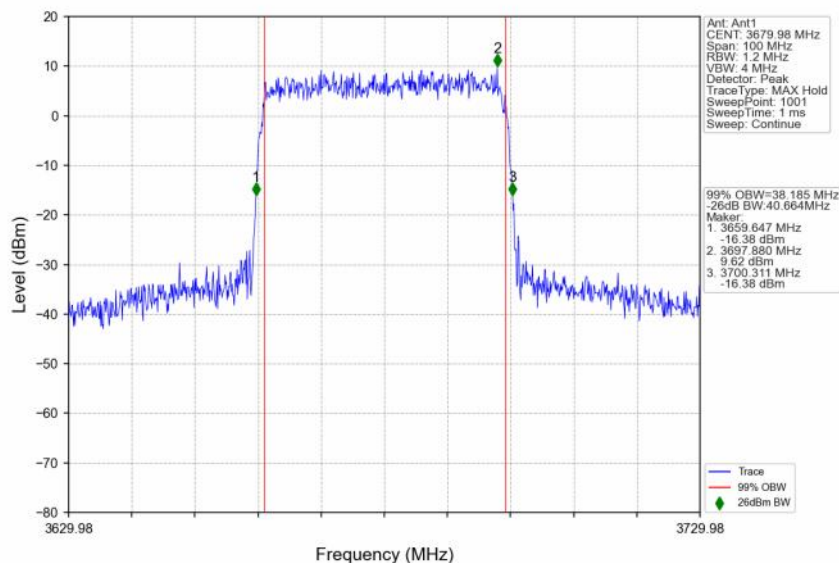


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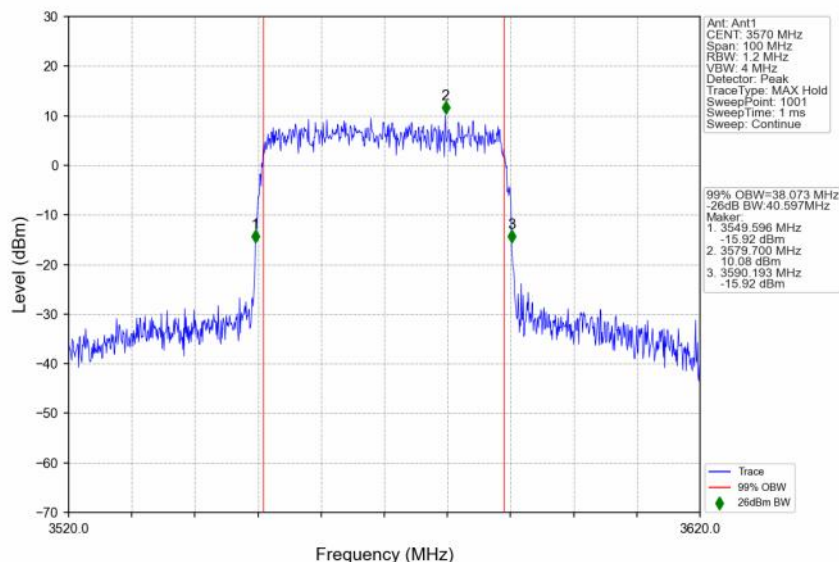
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n48_30kHz_SISO_NTNV_40MHz_CP-OFDM_16_QAM_3679.98MHz_Outer_Full



n48_30kHz_SISO_NTNV_40MHz_CP-OFDM_64_QAM_3570MHz_Outer_Full

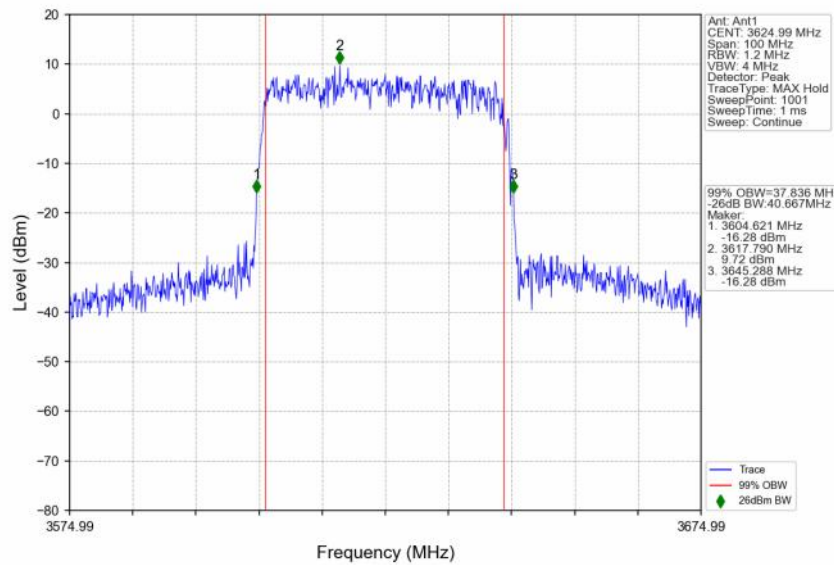


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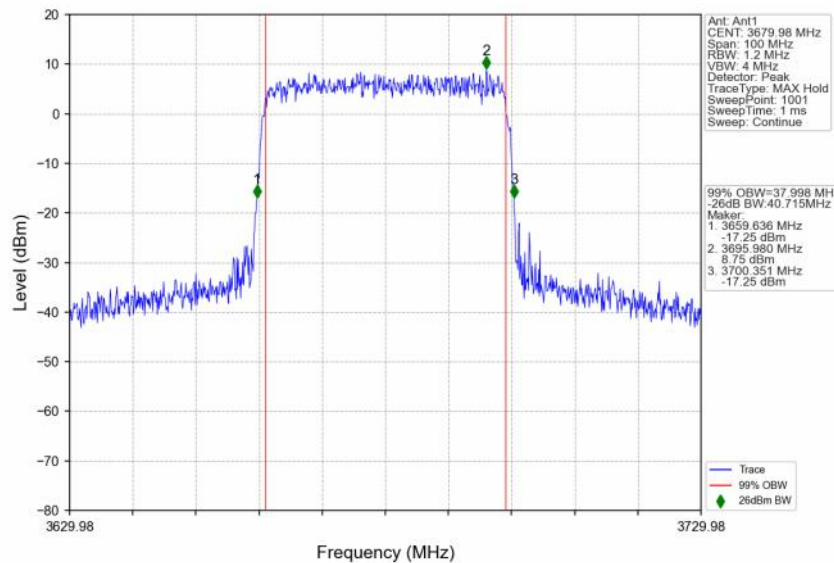
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n48_30kHz_SISO_NTNV_40MHz_CP-OFDM_64_QAM_3624.99MHz_Outer_Full



n48_30kHz_SISO_NTNV_40MHz_CP-OFDM_64_QAM_3679.98MHz_Outer_Full

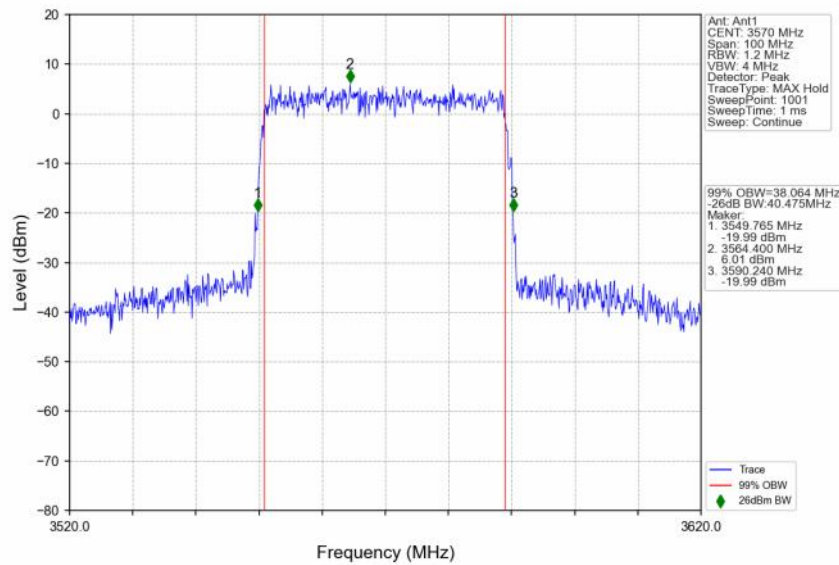


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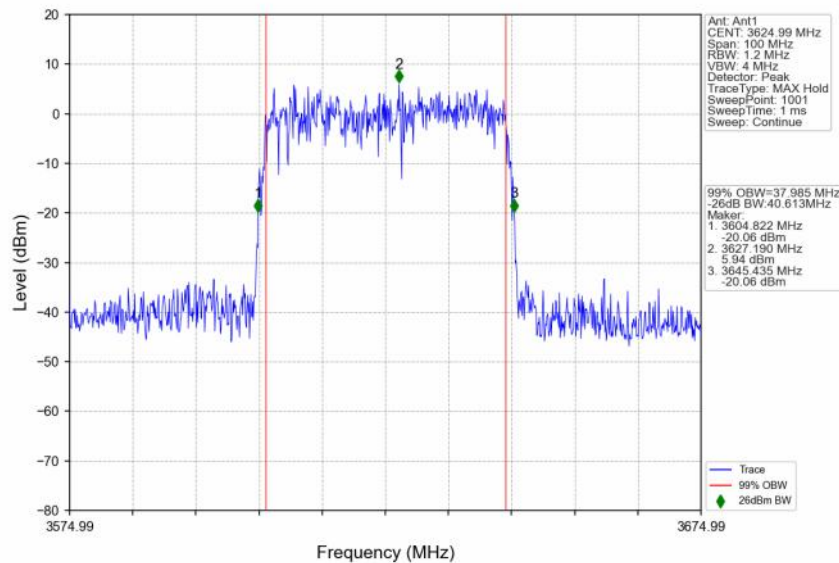
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n48_30kHz_SISO_NTNV_40MHz_CP-OFDM 256 QAM_3570MHz_Outer_Full



n48_30kHz_SISO_NTNV_40MHz_CP-OFDM 256 QAM_3624.99MHz_Outer_Full

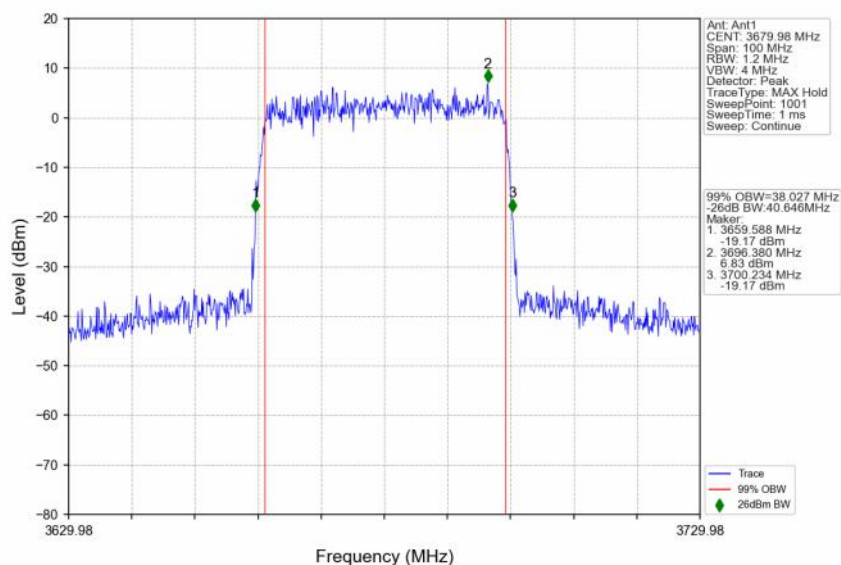


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n48_30kHz_SISO_NTNV_40MHz_CP-OFDM 256 QAM_3679.98MHz_Outer_Full



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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	8.35	/	/	<=13	Pass
	3624.99	Outer_Full	8.22	/	/	<=13	Pass
	3694.98	Outer_Full	8.11	/	/	<=13	Pass
DFT-s-OFDM QPSK	3555	Outer_Full	9.30	/	/	<=13	Pass
	3624.99	Outer_Full	8.91	/	/	<=13	Pass
	3694.98	Outer_Full	9.02	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3555	Outer_Full	10.14	/	/	<=13	Pass
	3624.99	Outer_Full	9.99	/	/	<=13	Pass
	3694.98	Outer_Full	9.96	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3555	Outer_Full	10.28	/	/	<=13	Pass
	3624.99	Outer_Full	10.13	/	/	<=13	Pass
	3694.98	Outer_Full	10.01	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3555	Outer_Full	10.23	/	/	<=13	Pass
	3624.99	Outer_Full	10.53	/	/	<=13	Pass
	3694.98	Outer_Full	10.95	/	/	<=13	Pass
CP-OFDM QPSK	3555	Outer_Full	11.58	/	/	<=13	Pass
	3624.99	Outer_Full	11.45	/	/	<=13	Pass
	3694.98	Outer_Full	10.73	/	/	<=13	Pass
CP-OFDM 16 QAM	3555	Outer_Full	11.30	/	/	<=13	Pass
	3624.99	Outer_Full	11.17	/	/	<=13	Pass
	3694.98	Outer_Full	10.71	/	/	<=13	Pass
CP-OFDM 64 QAM	3555	Outer_Full	11.44	/	/	<=13	Pass
	3624.99	Outer_Full	11.46	/	/	<=13	Pass
	3694.98	Outer_Full	11.49	/	/	<=13	Pass
CP-OFDM 256 QAM	3555	Outer_Full	11.75	/	/	<=13	Pass
	3624.99	Outer_Full	11.61	/	/	<=13	Pass
	3694.98	Outer_Full	11.55	/	/	<=13	Pass

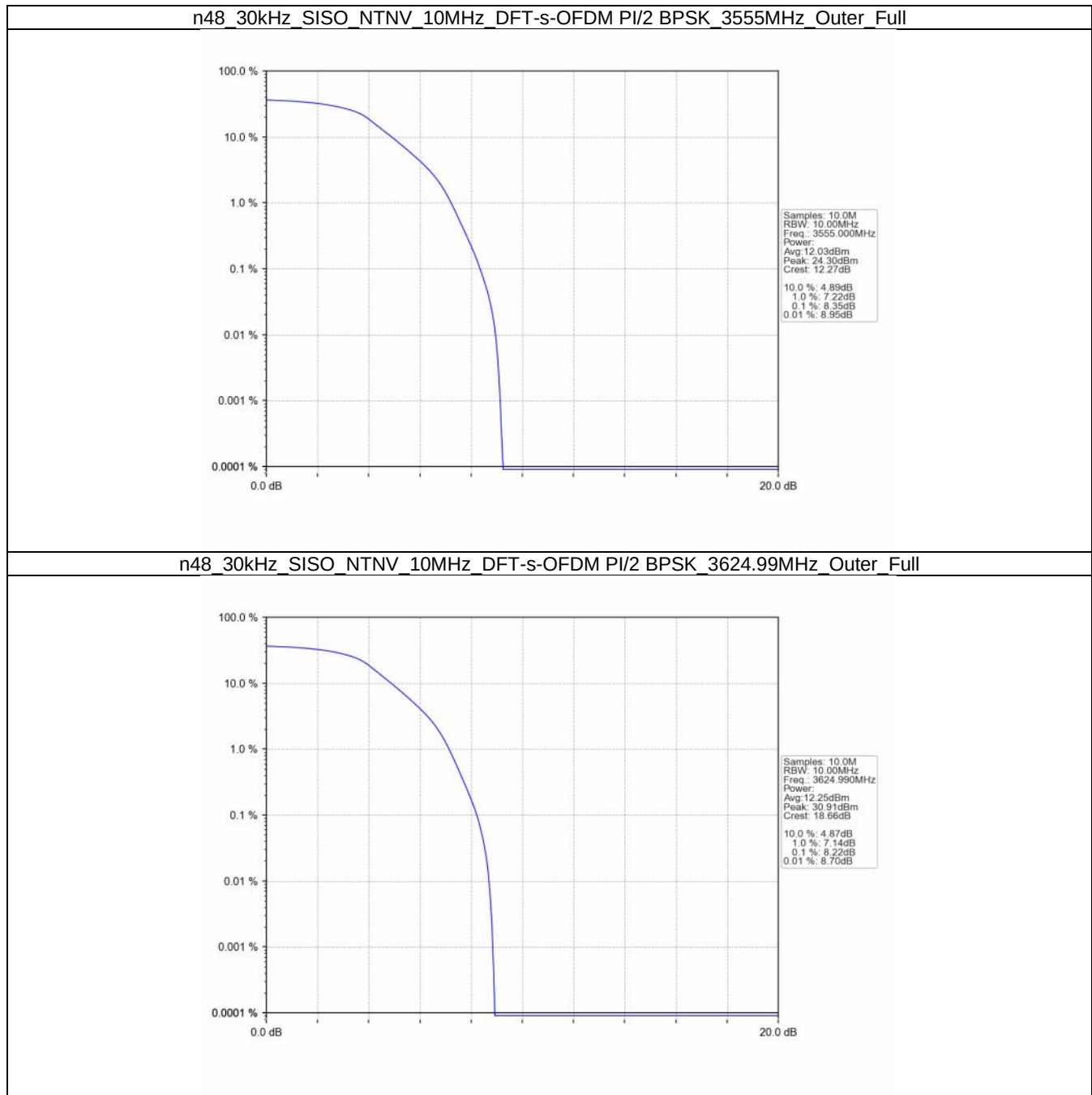


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6.1.2 Test Graph

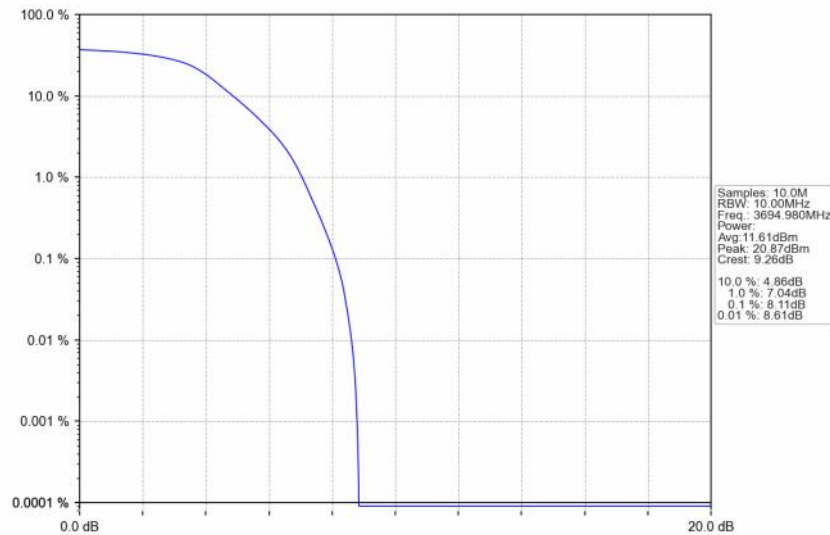


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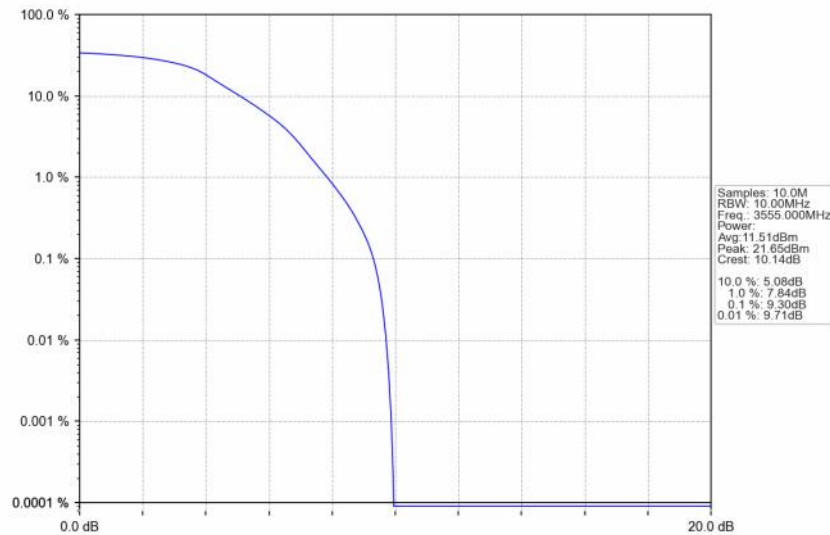
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n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_3555MHz_Outer_Full

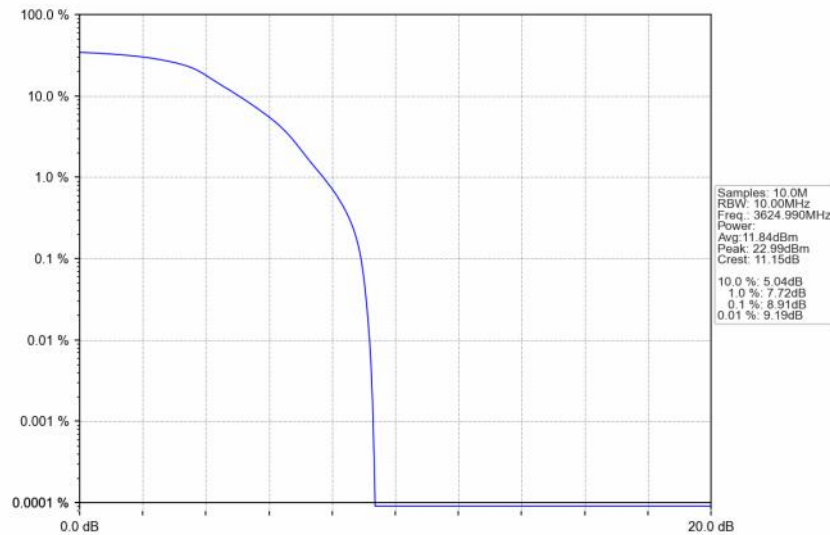


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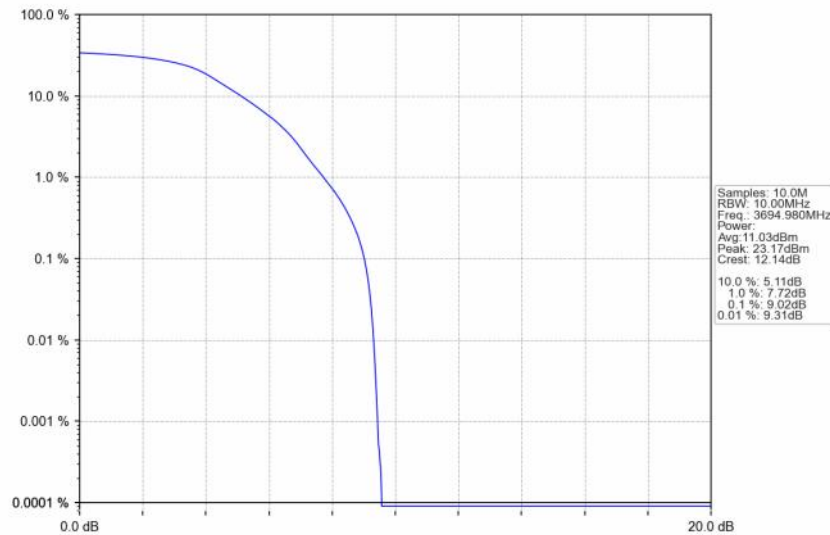
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n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_3624.99MHz_Outer_Full



n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_3694.98MHz_Outer_Full

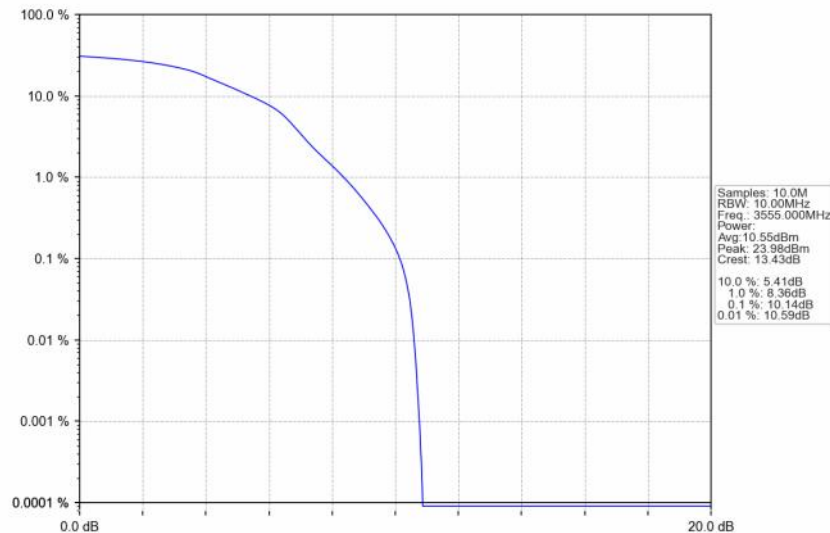


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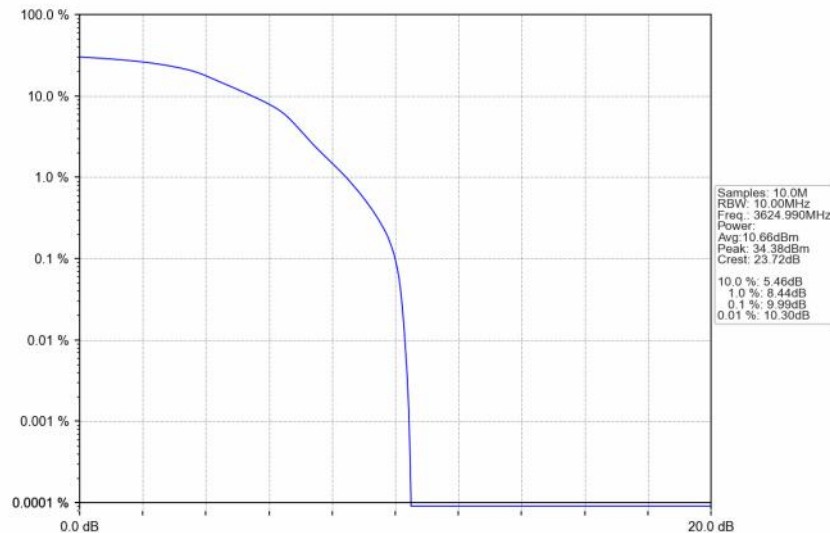
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n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_16_QAM_3555MHz_Outer_Full



n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_16_QAM_3624.99MHz_Outer_Full

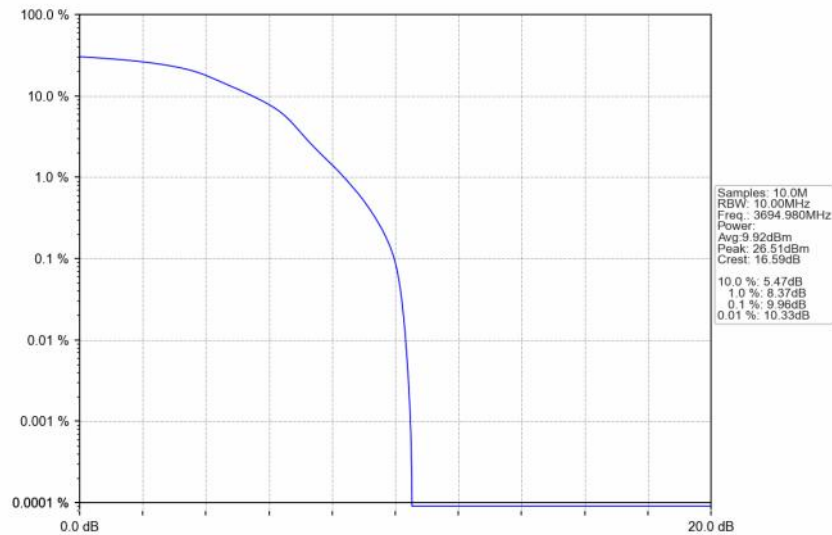


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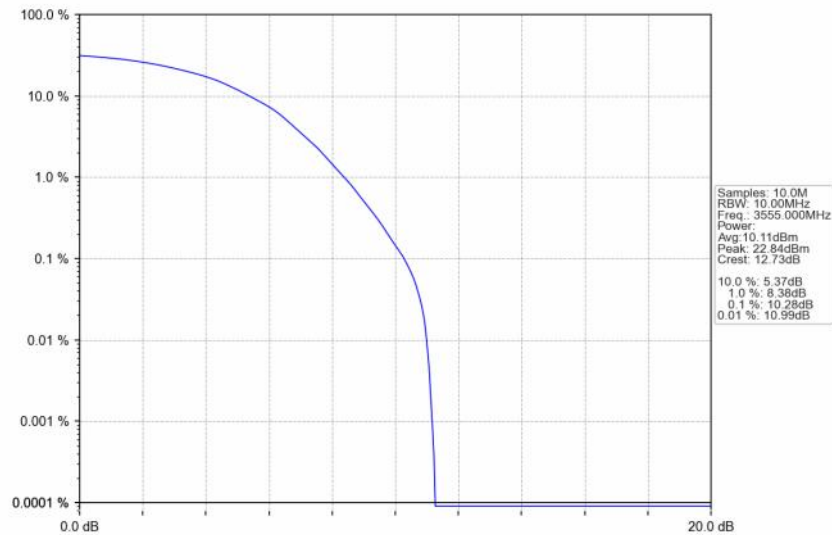
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n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_64_QAM_3555MHz_Outer_Full

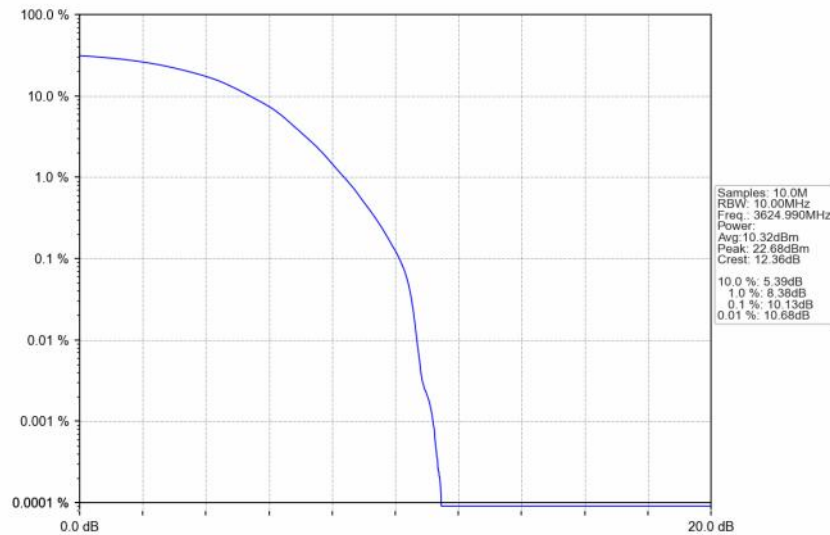


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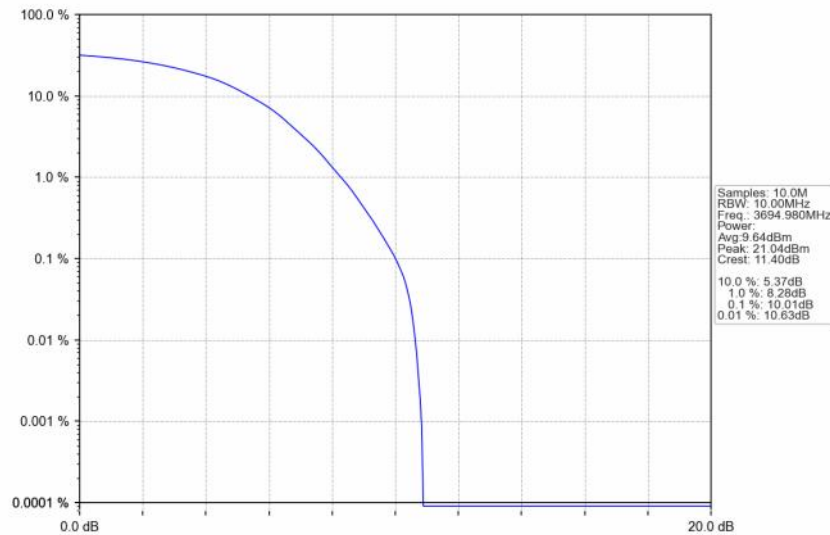
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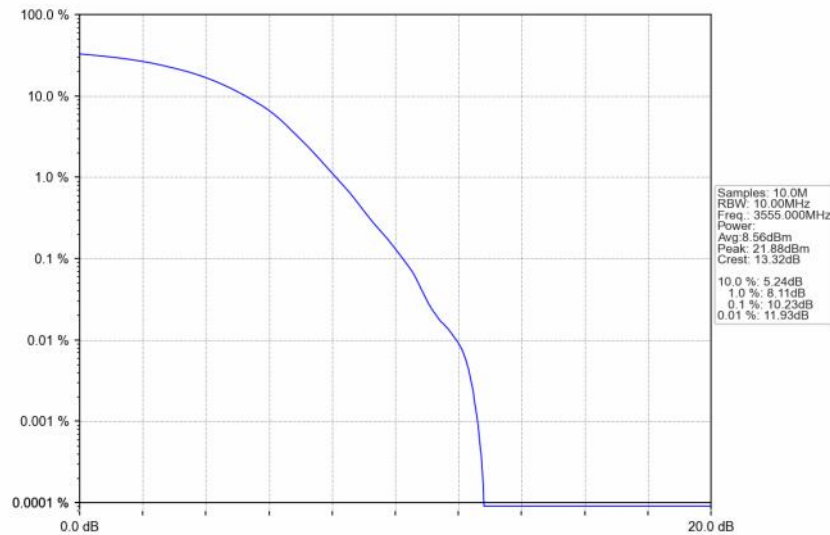


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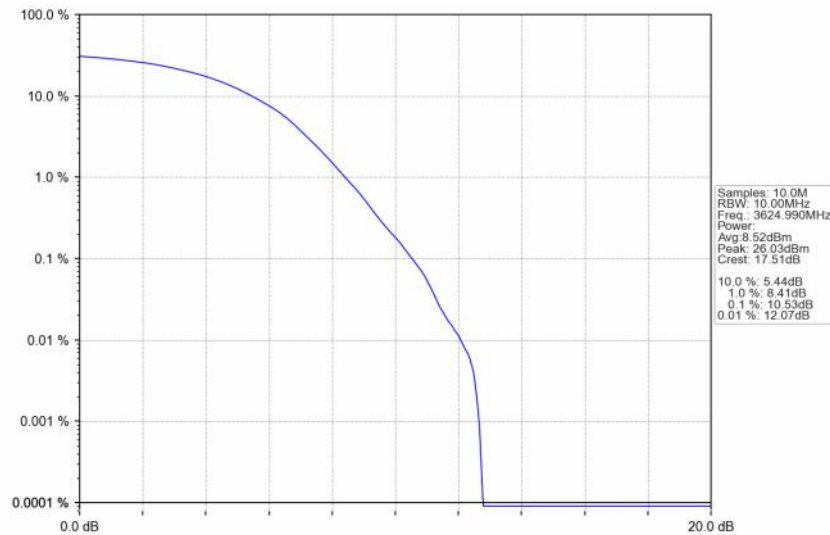
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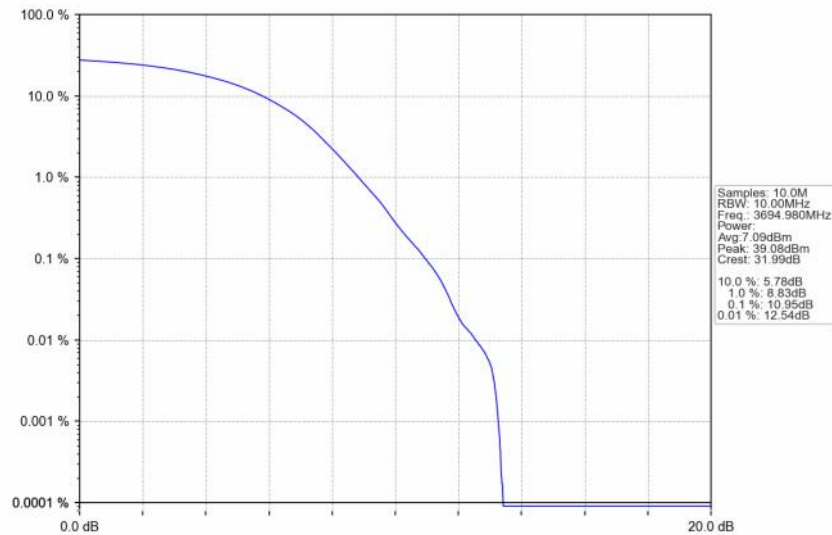


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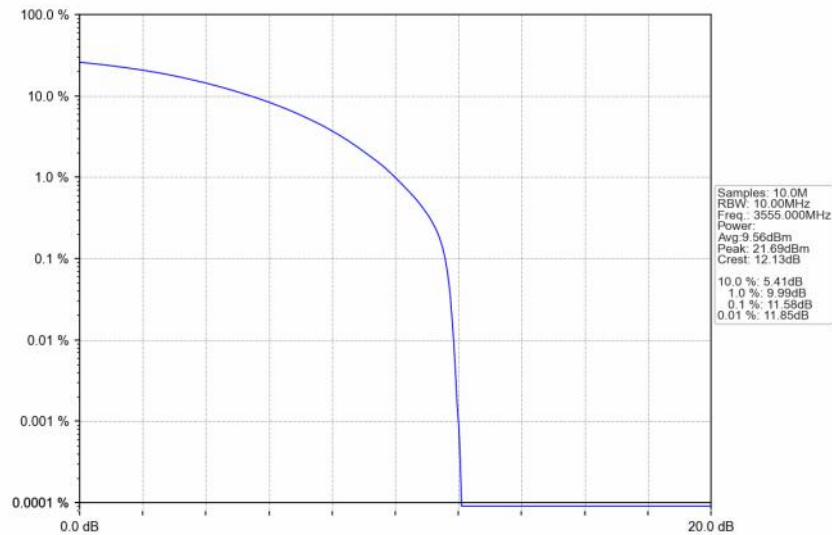
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n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 256 QAM_3694.98MHz_Outer_Full



n48_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_3555MHz_Outer_Full

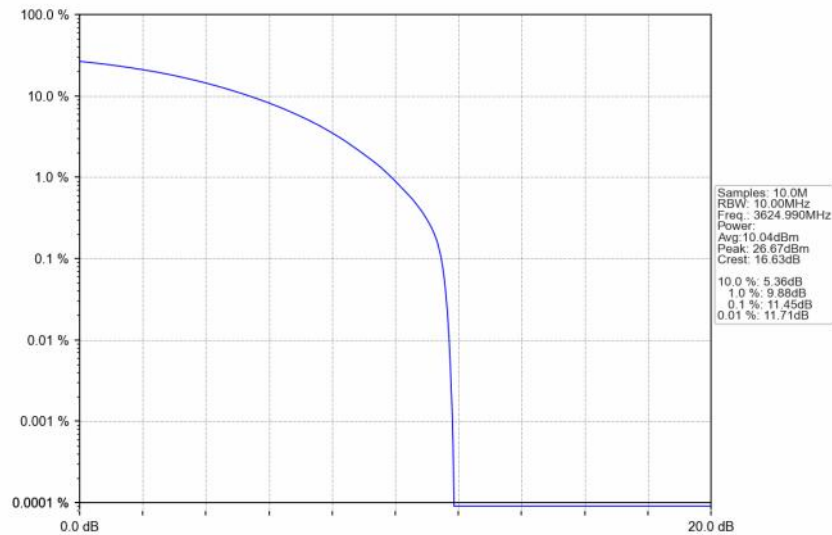


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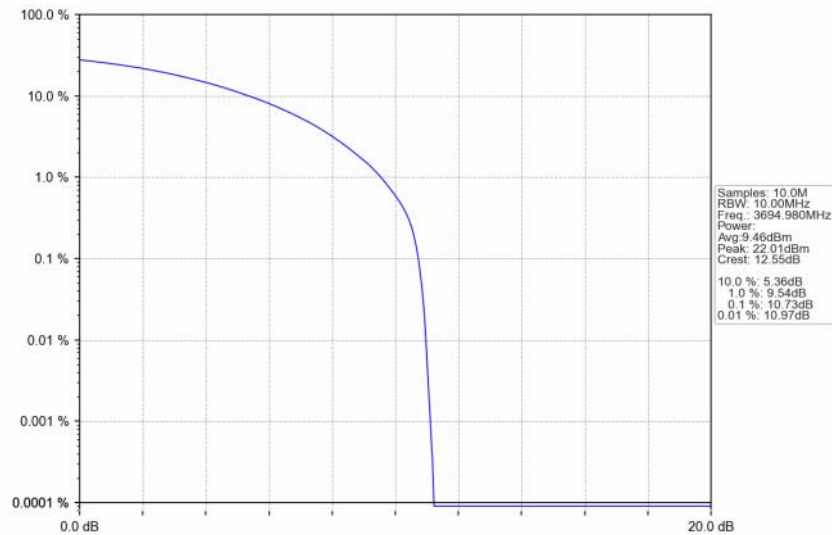
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n48_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_3624.99MHz_Outer_Full



n48_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_3694.98MHz_Outer_Full

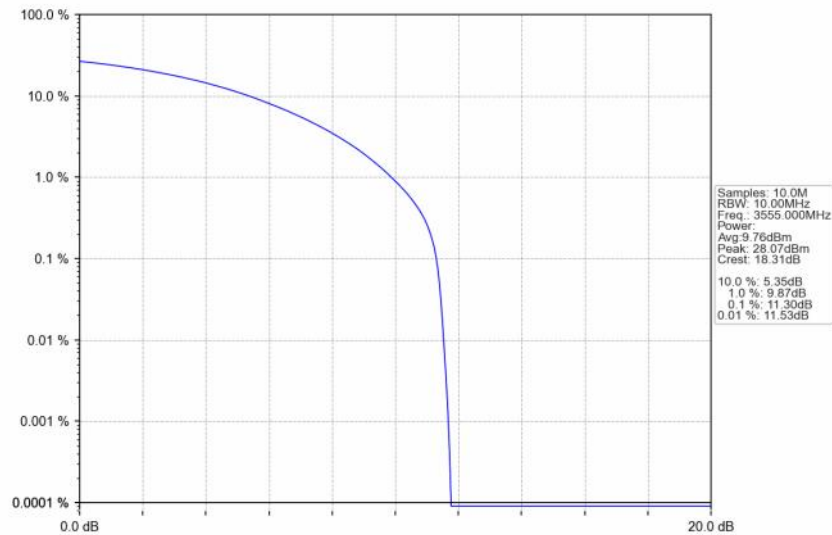


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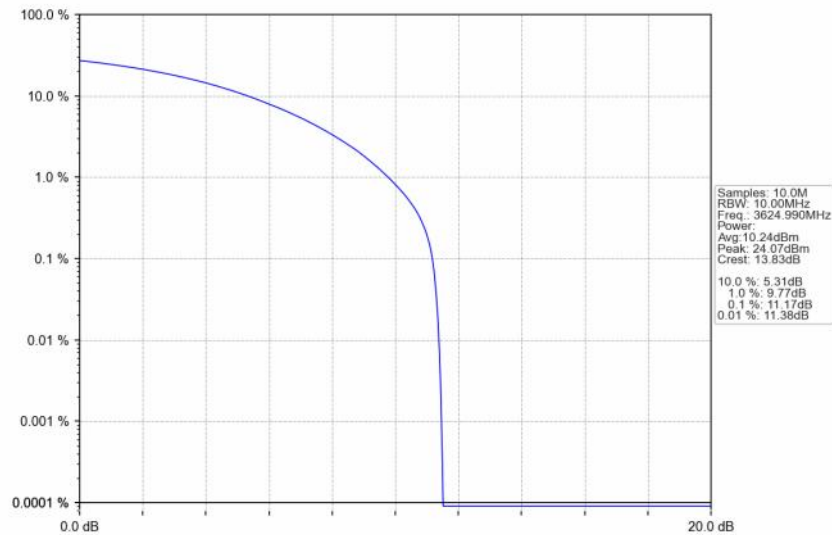
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n48_30kHz_SISO_NTNV_10MHz_CP-OFDM_16_QAM_3555MHz_Outer_Full



n48_30kHz_SISO_NTNV_10MHz_CP-OFDM_16_QAM_3624.99MHz_Outer_Full

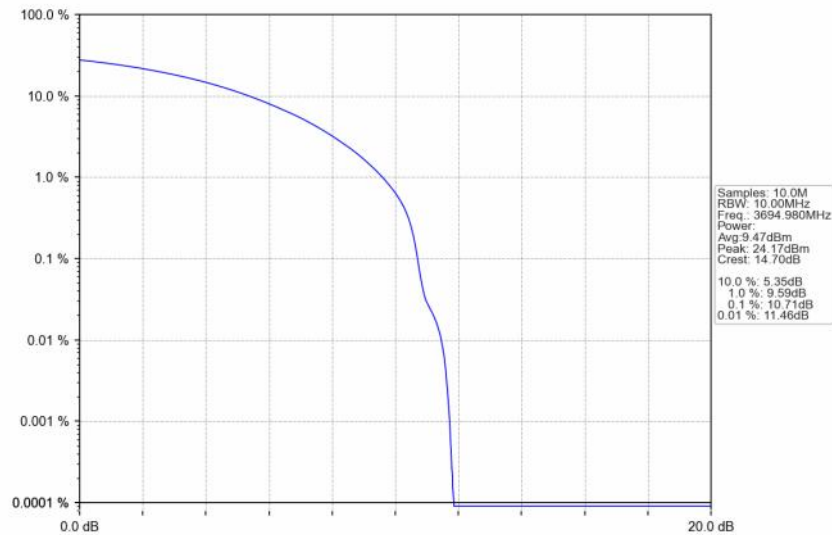


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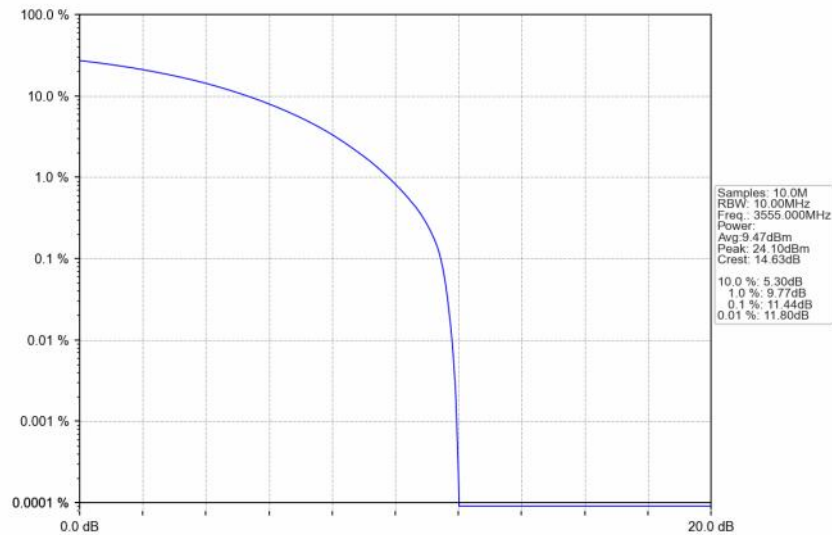
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n48_30kHz_SISO_NTNV_10MHz_CP-OFDM_16 QAM_3694.98MHz_Outer_Full



n48_30kHz_SISO_NTNV_10MHz_CP-OFDM_64 QAM_3555MHz_Outer_Full

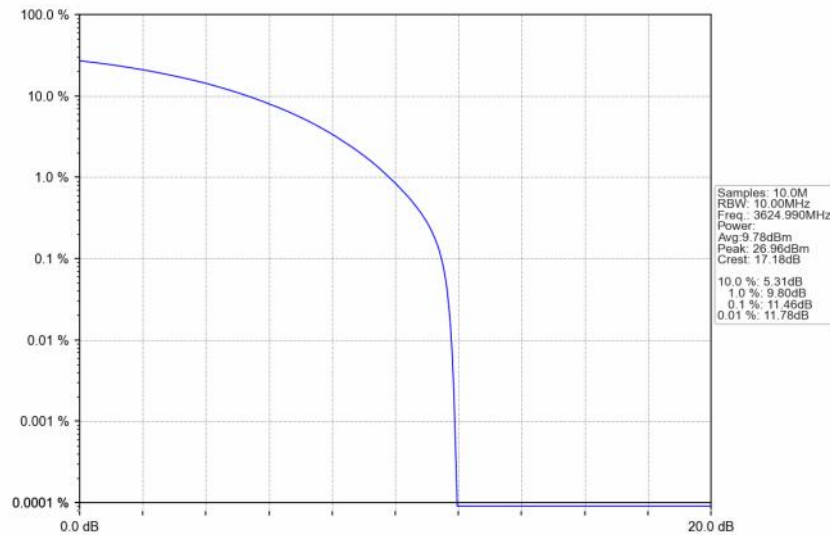


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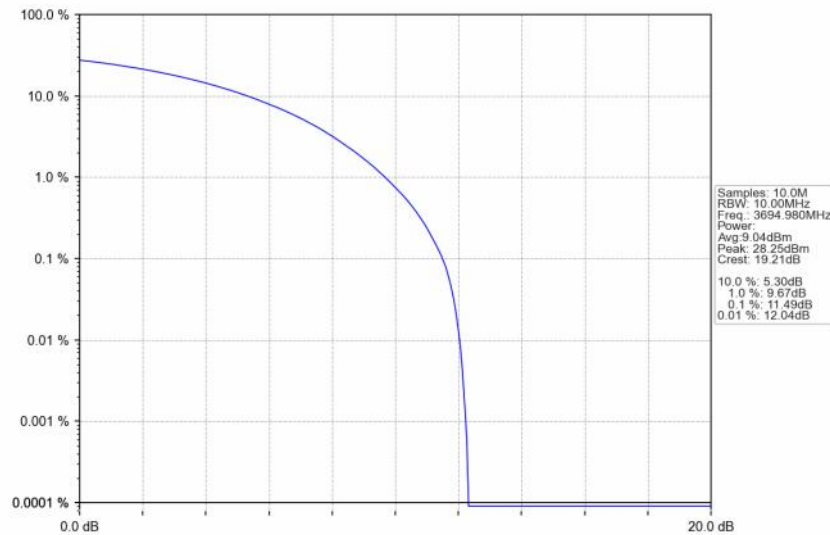
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n48_30kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_3624.99MHz_Outer_Full



n48_30kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_3694.98MHz_Outer_Full

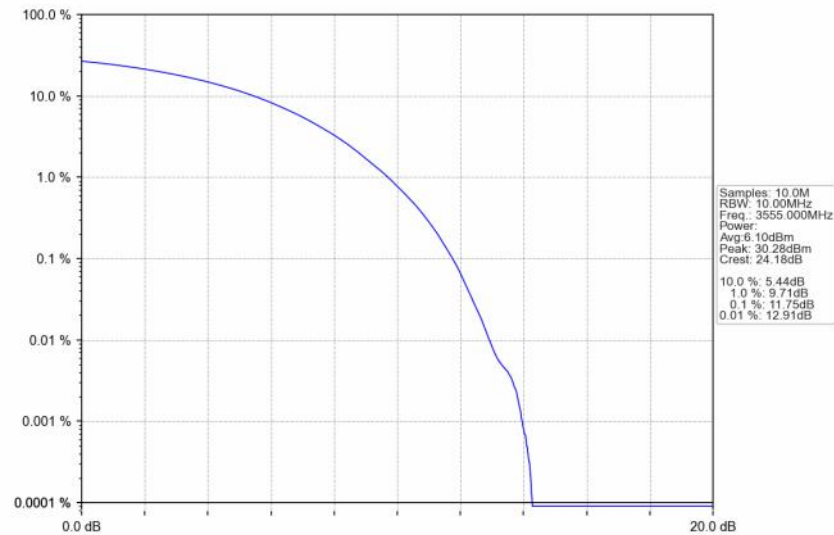


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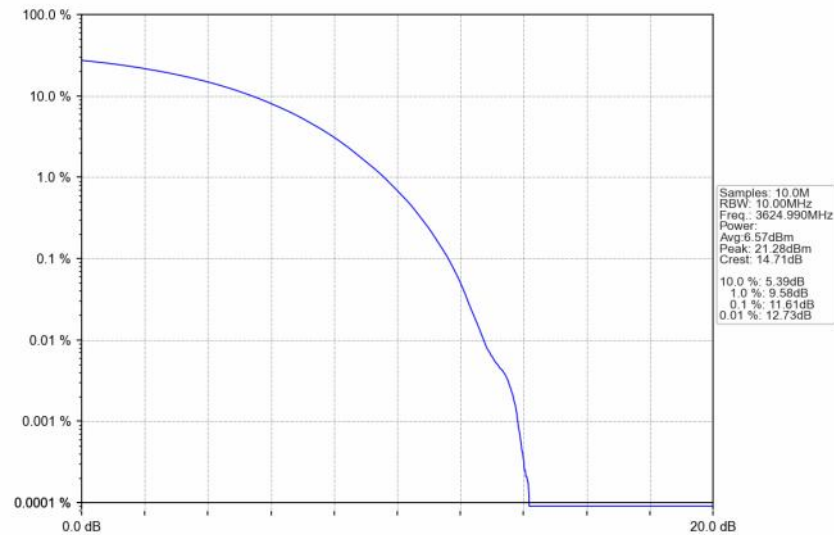
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n48_30kHz_SISO_NTNV_10MHz_CP-OFDM 256 QAM_3555MHz_Outer_Full



n48_30kHz_SISO_NTNV_10MHz_CP-OFDM 256 QAM_3624.99MHz_Outer_Full

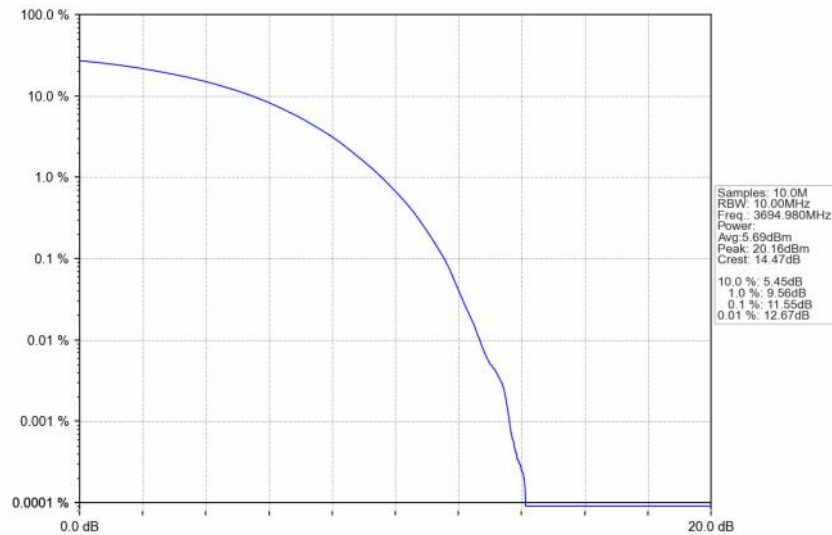


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n48_30kHz_SISO_NTNV_10MHz_CP-OFDM 256 QAM_3694.98MHz_Outer_Full



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6.2 30k_SISO_20MHz_NTNV

6.2.1 Test Result

5G NR n48 SCS=30kHz SISO 20MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3560.01	Outer_Full	8.41	/	/	<=13	Pass
	3624.99	Outer_Full	8.16	/	/	<=13	Pass
	3690	Outer_Full	8.17	/	/	<=13	Pass
DFT-s-OFDM QPSK	3560.01	Outer_Full	9.29	/	/	<=13	Pass
	3624.99	Outer_Full	9.16	/	/	<=13	Pass
	3690	Outer_Full	8.83	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3560.01	Outer_Full	10.02	/	/	<=13	Pass
	3624.99	Outer_Full	9.93	/	/	<=13	Pass
	3690	Outer_Full	9.65	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3560.01	Outer_Full	10.23	/	/	<=13	Pass
	3624.99	Outer_Full	10.02	/	/	<=13	Pass
	3690	Outer_Full	9.89	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3560.01	Outer_Full	10.52	/	/	<=13	Pass
	3624.99	Outer_Full	10.45	/	/	<=13	Pass
	3690	Outer_Full	10.05	/	/	<=13	Pass
CP-OFDM QPSK	3560.01	Outer_Full	10.95	/	/	<=13	Pass
	3624.99	Outer_Full	10.80	/	/	<=13	Pass
	3690	Outer_Full	11.23	/	/	<=13	Pass
CP-OFDM 16 QAM	3560.01	Outer_Full	10.85	/	/	<=13	Pass
	3624.99	Outer_Full	10.64	/	/	<=13	Pass
	3690	Outer_Full	11.39	/	/	<=13	Pass
CP-OFDM 64 QAM	3560.01	Outer_Full	11.31	/	/	<=13	Pass
	3624.99	Outer_Full	11.20	/	/	<=13	Pass
	3690	Outer_Full	11.75	/	/	<=13	Pass
CP-OFDM 256 QAM	3560.01	Outer_Full	11.84	/	/	<=13	Pass
	3624.99	Outer_Full	11.91	/	/	<=13	Pass
	3690	Outer_Full	11.73	/	/	<=13	Pass

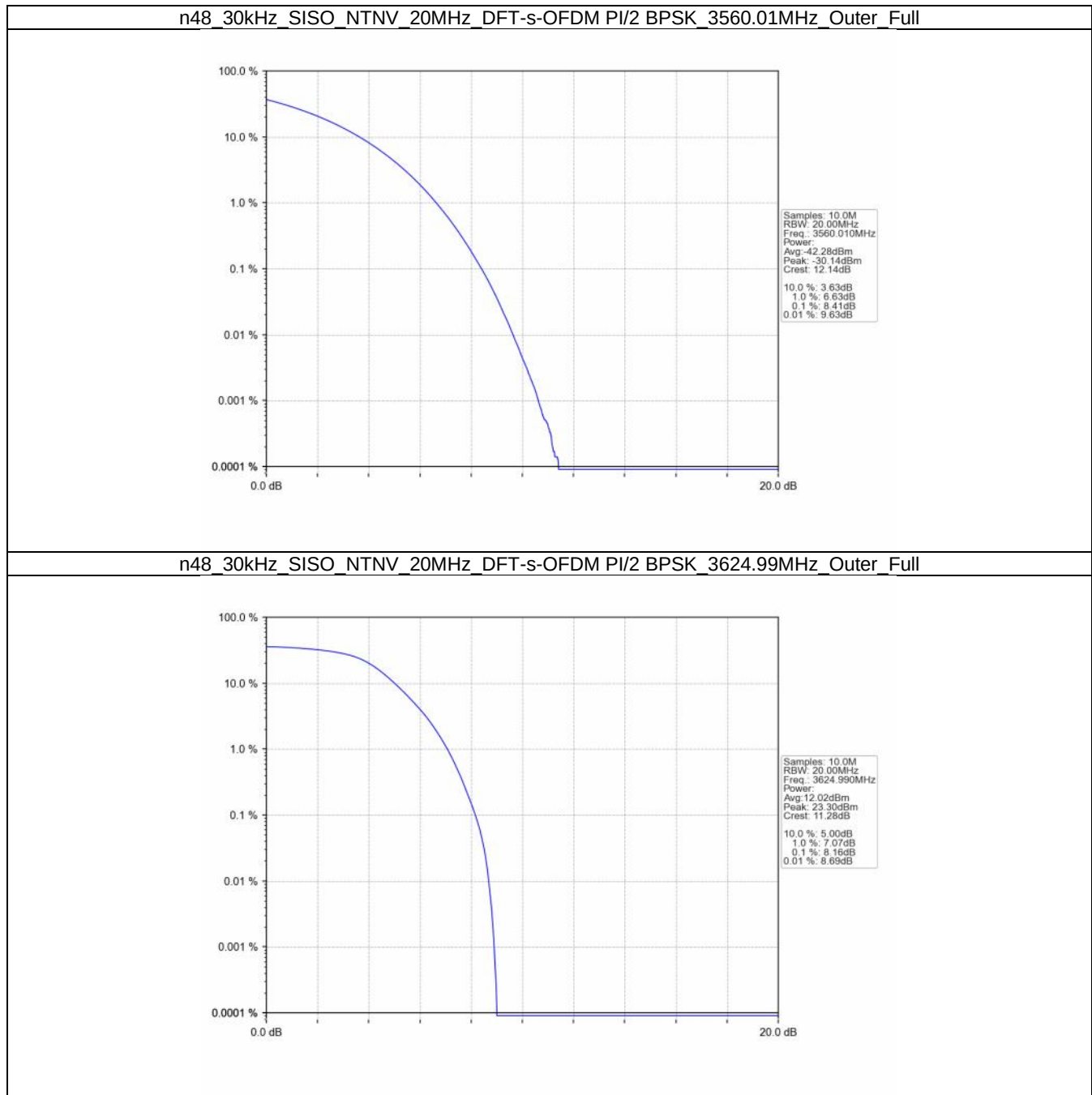


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6.2.2 Test Graph

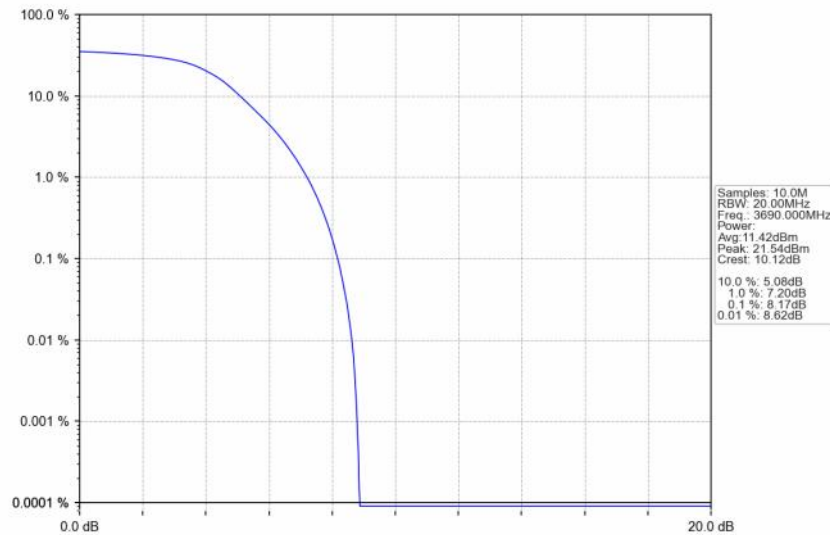


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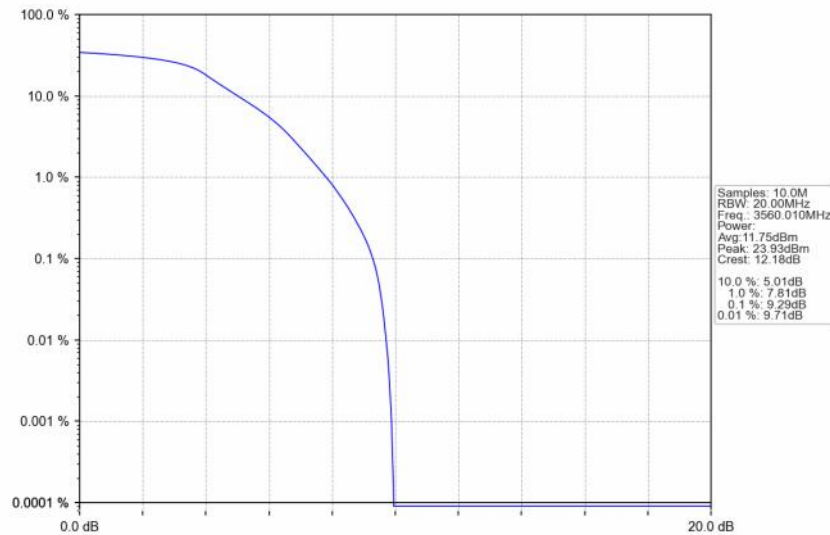
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n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_3690MHz_Outer_Full



n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_3560.01MHz_Outer_Full

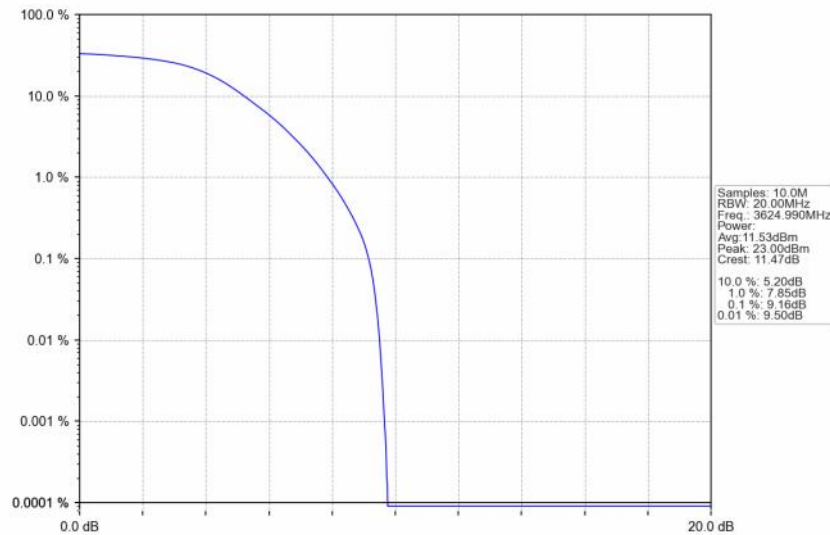


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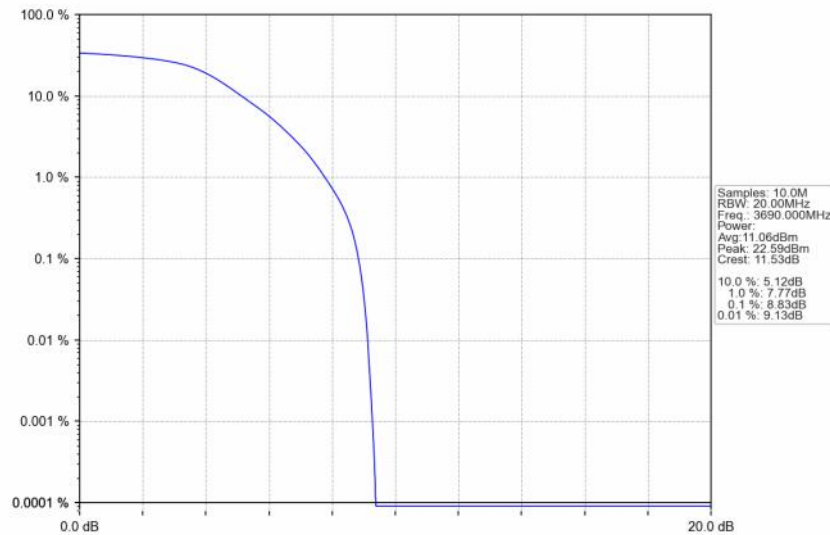
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n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_3624.99MHz_Outer_Full



n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_3690MHz_Outer_Full

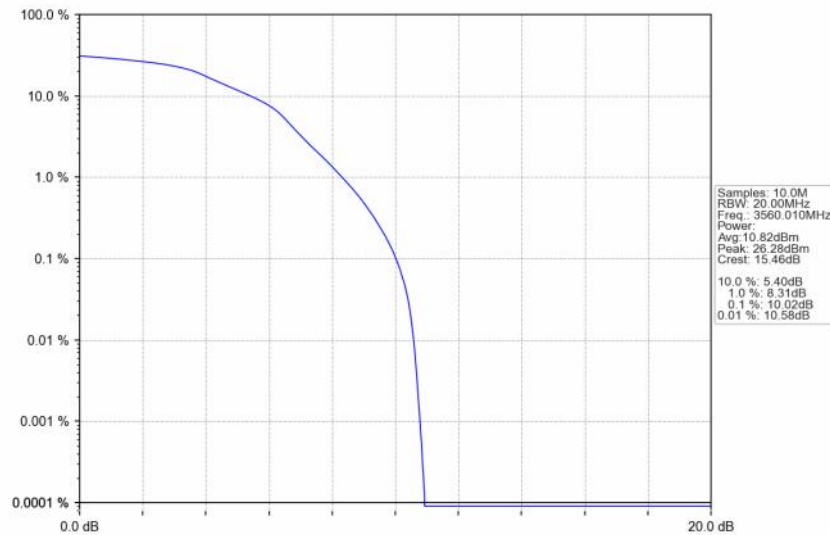


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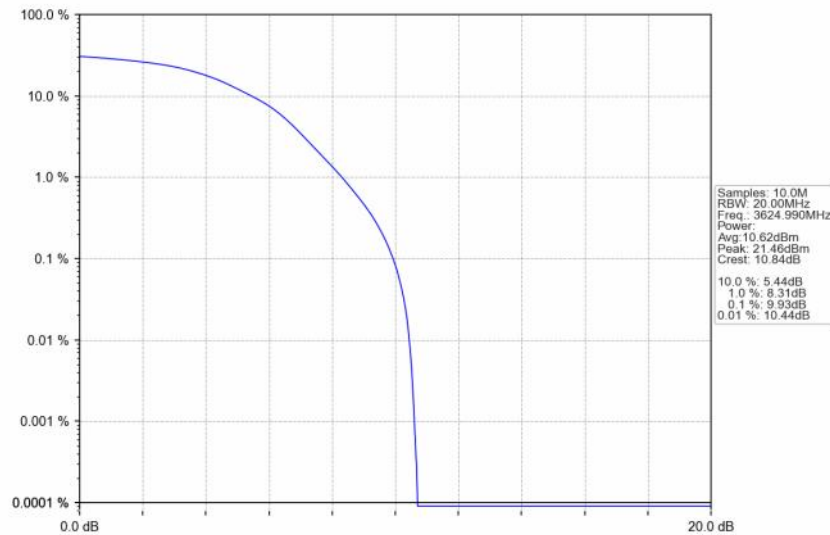
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n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_16_QAM_3560.01MHz_Outer_Full



n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_16_QAM_3624.99MHz_Outer_Full

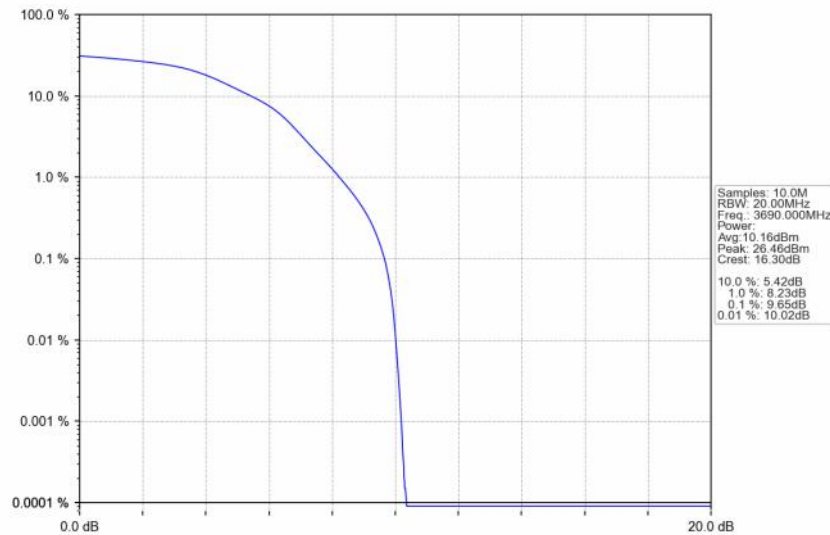


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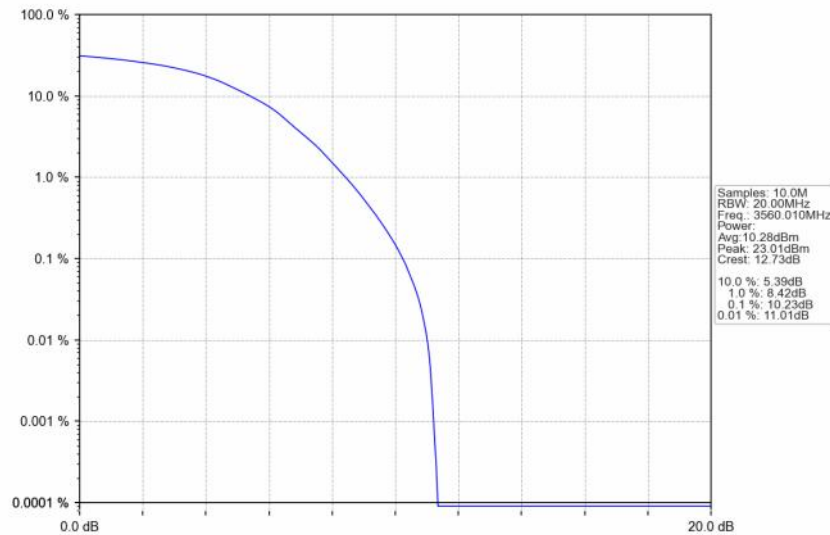
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n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_16_QAM_3690MHz_Outer_Full



n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_64_QAM_3560.01MHz_Outer_Full

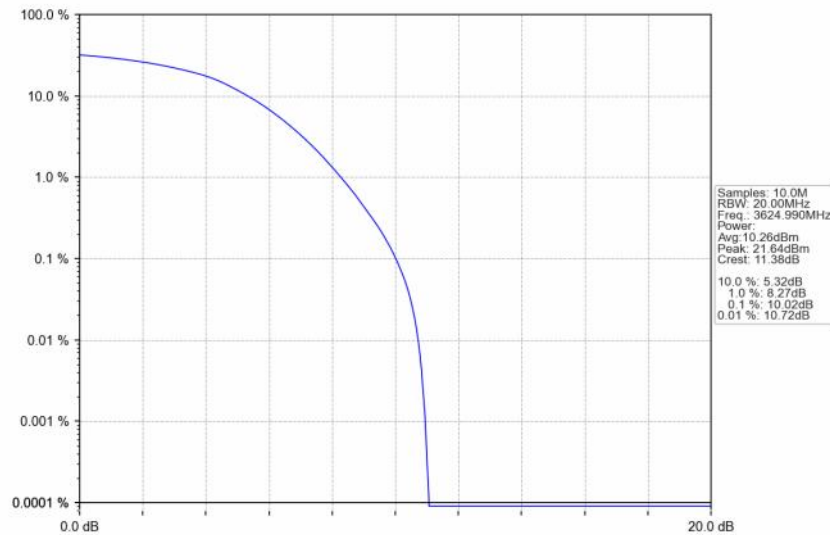


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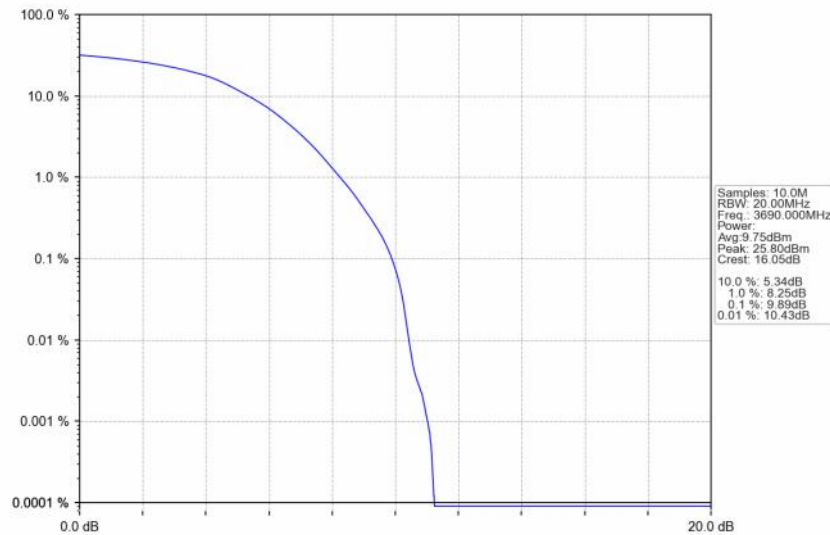
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n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_64_QAM_3624.99MHz_Outer_Full



n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_64_QAM_3690MHz_Outer_Full

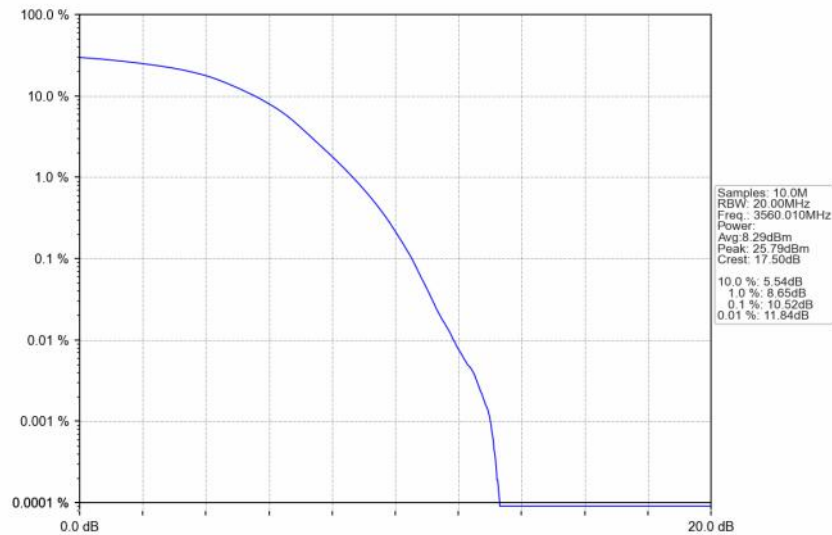


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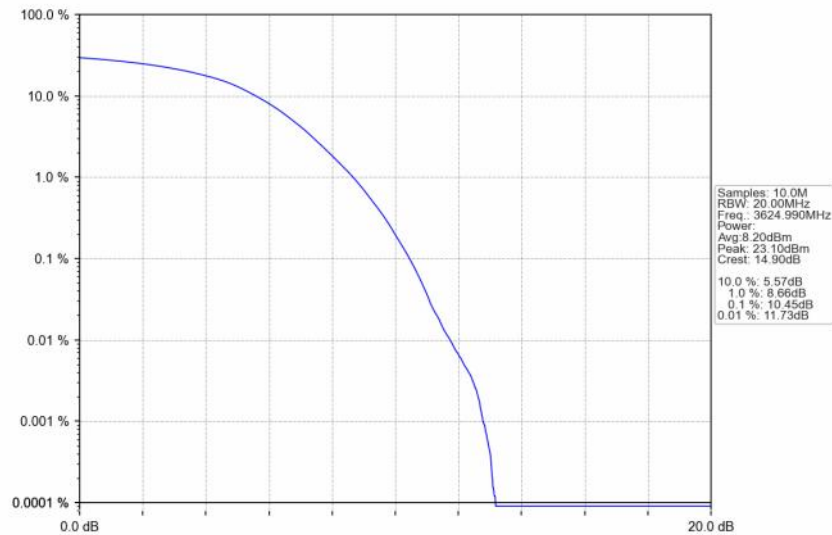
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n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_256_QAM_3560.01MHz_Outer_Full



n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_256_QAM_3624.99MHz_Outer_Full

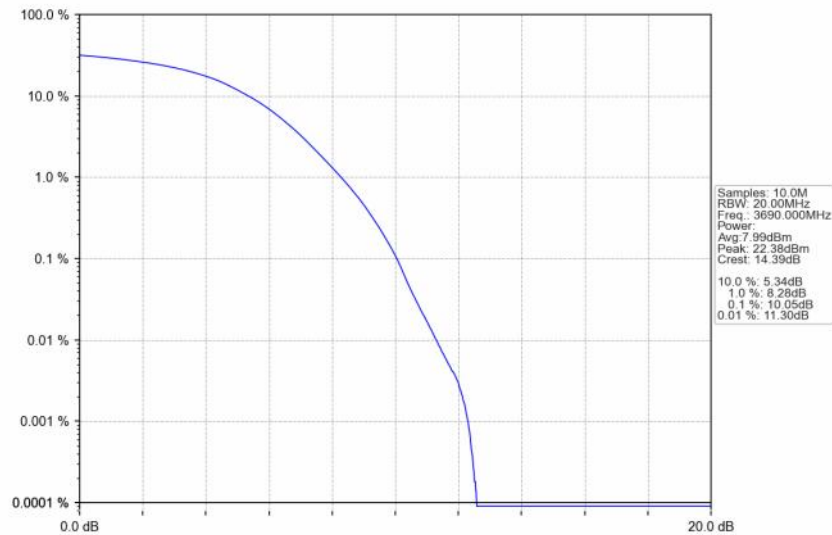


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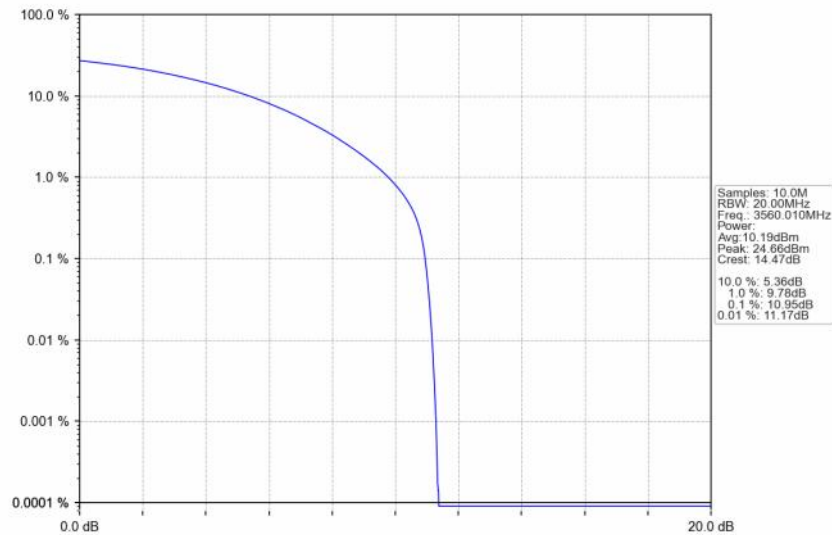
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n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 256 QAM_3690MHz_Outer_Full



n48_30kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_3560.01MHz_Outer_Full

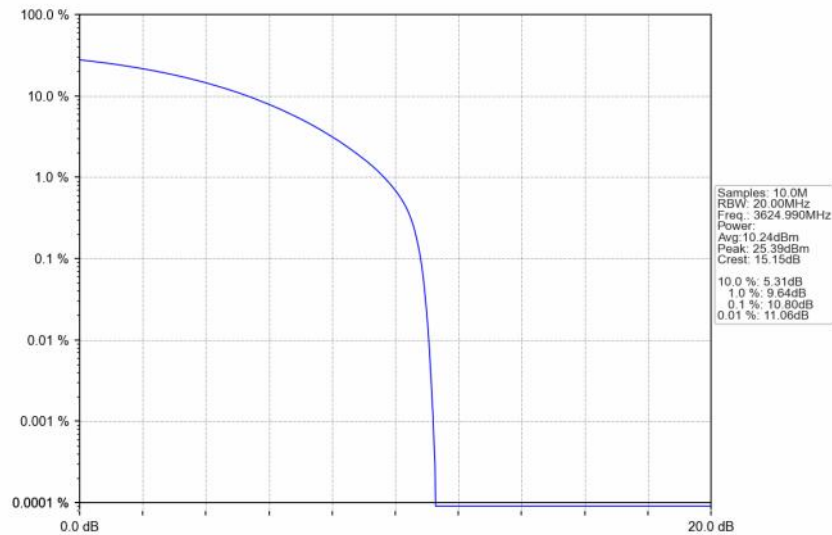


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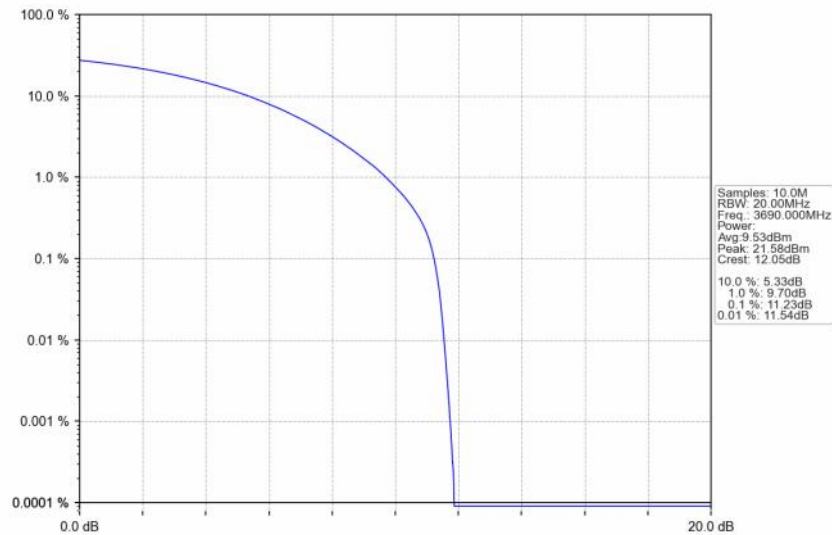
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n48_30kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_3624.99MHz_Outer_Full



n48_30kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_3690MHz_Outer_Full

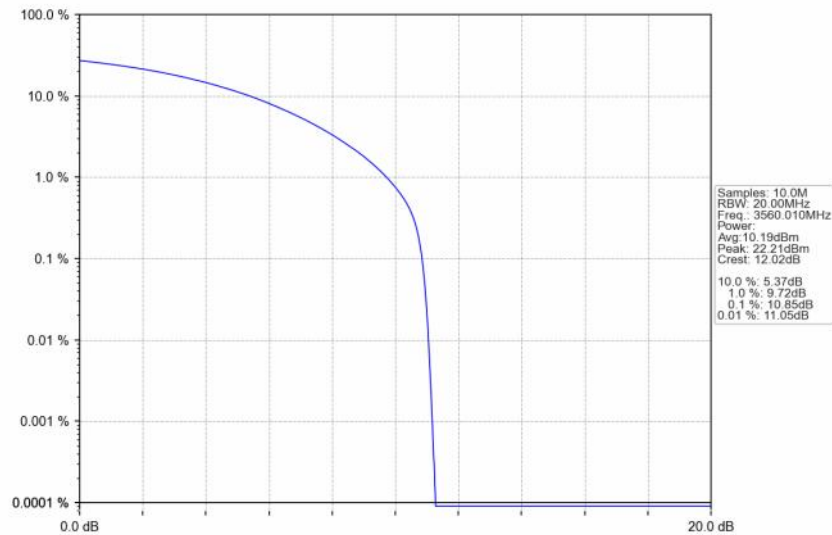


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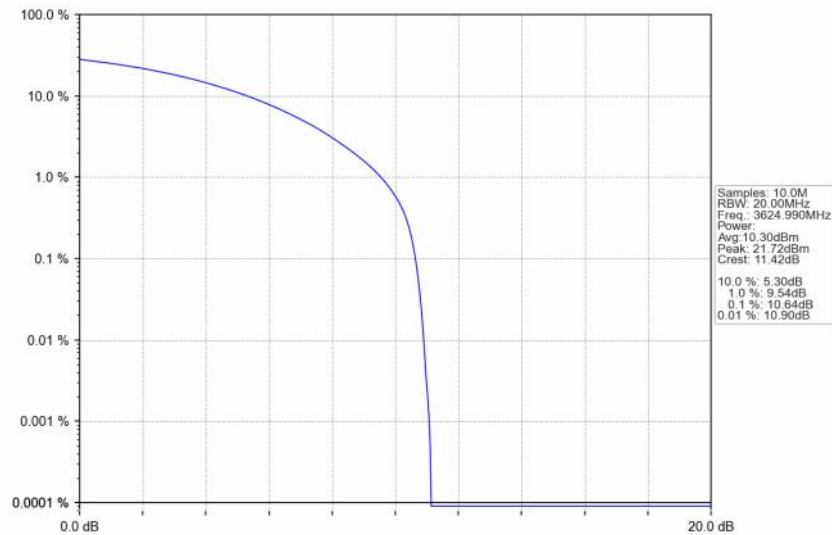
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n48_30kHz_SISO_NTNV_20MHz_CP-OFDM_16_QAM_3560.01MHz_Outer_Full



n48_30kHz_SISO_NTNV_20MHz_CP-OFDM_16_QAM_3624.99MHz_Outer_Full

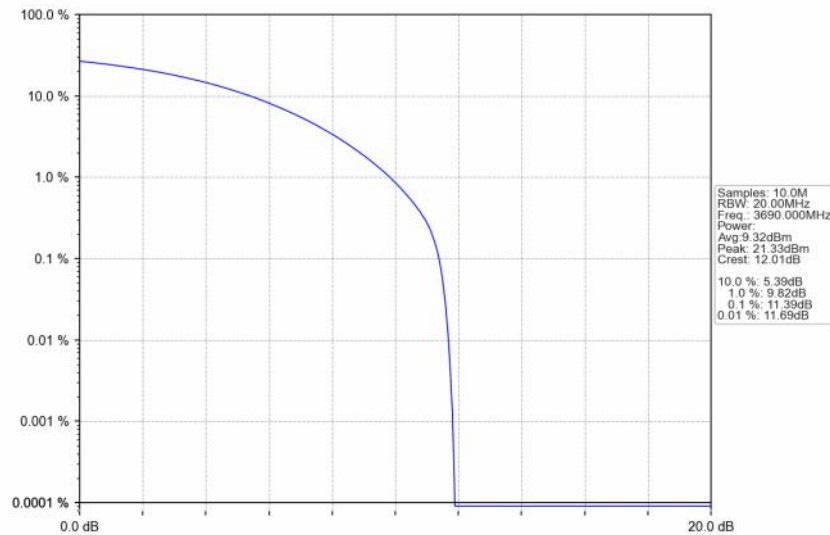


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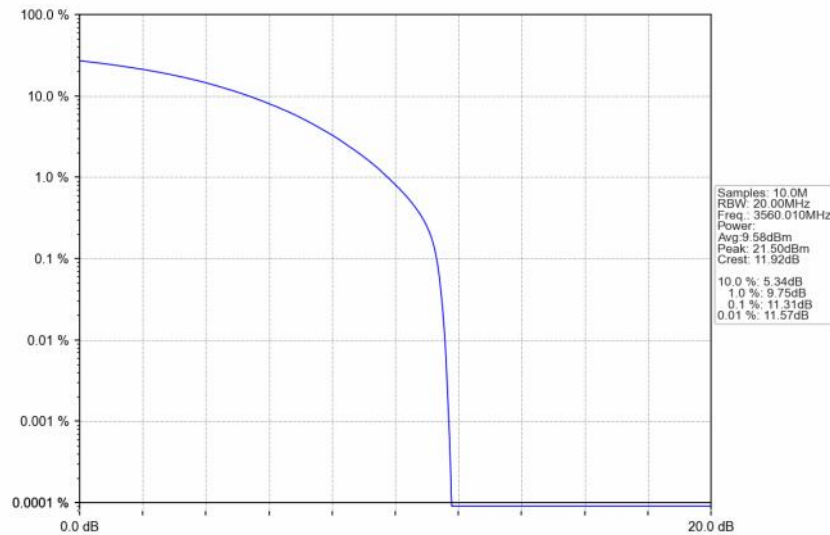
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n48_30kHz_SISO_NTNV_20MHz_CP-OFDM 16 QAM_3690MHz_Outer_Full



n48_30kHz_SISO_NTNV_20MHz_CP-OFDM 64 QAM_3560.01MHz_Outer_Full

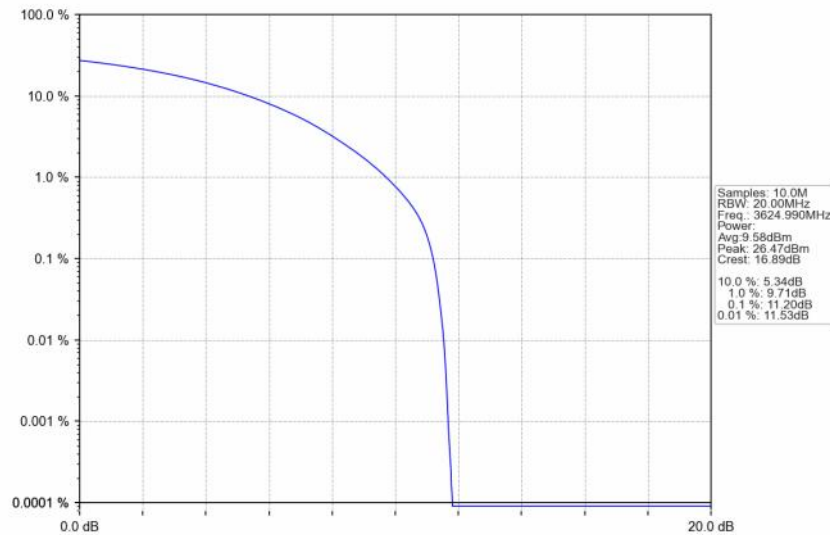


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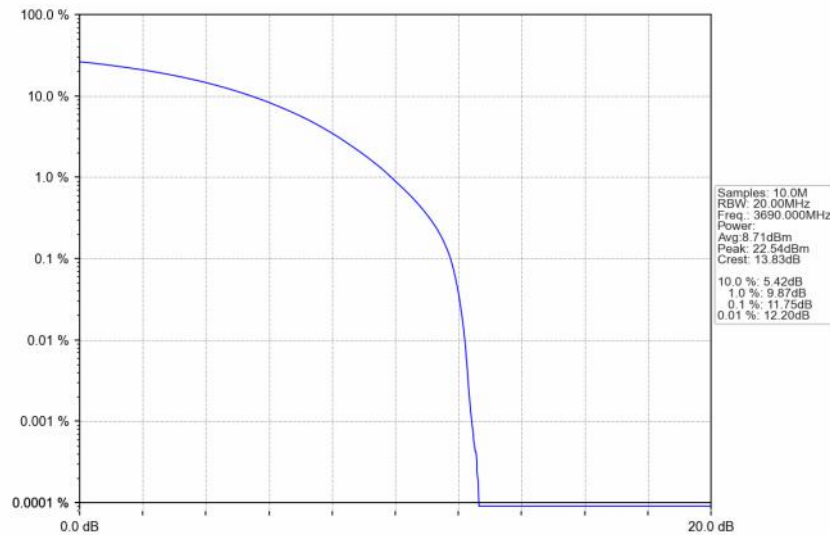
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n48_30kHz_SISO_NTNV_20MHz_CP-OFDM_64_QAM_3690MHz_Outer_Full

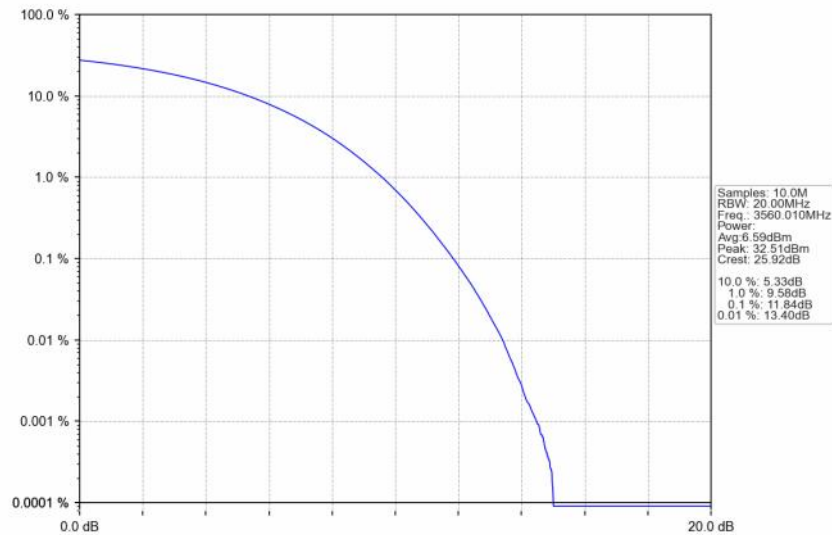


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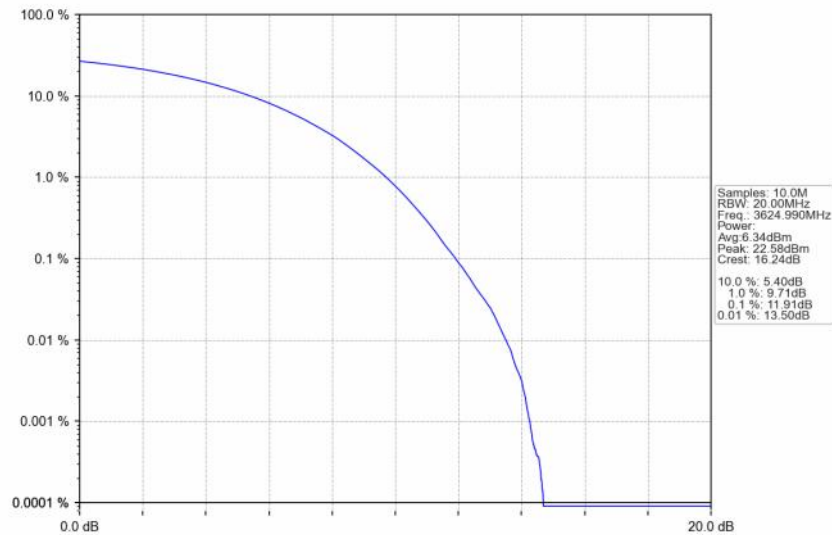
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n48_30kHz_SISO_NTNV_20MHz_CP-OFDM 256 QAM_3560.01MHz_Outer_Full



n48_30kHz_SISO_NTNV_20MHz_CP-OFDM 256 QAM_3624.99MHz_Outer_Full

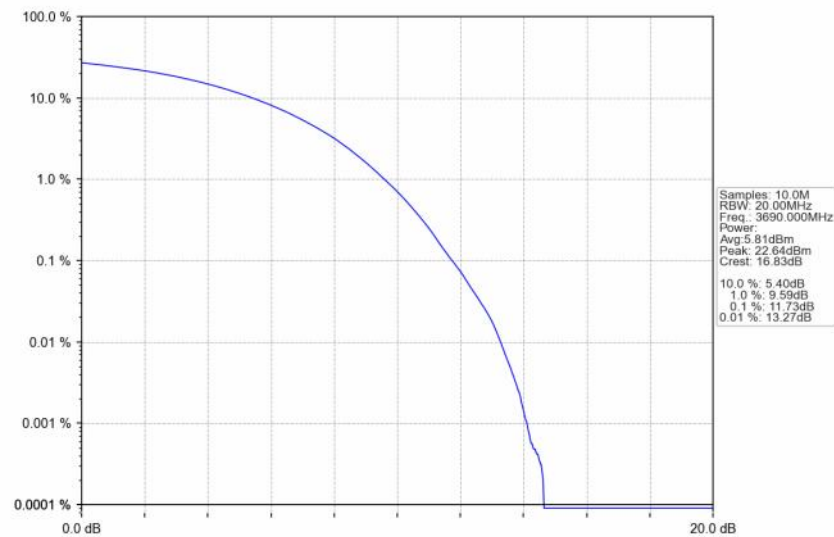


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n48_30kHz_SISO_NTNV_20MHz_CP-OFDM 256 QAM_3690MHz_Outer_Full



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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	8.27	/	/	<=13	Pass
	3624.99	Outer_Full	8.00	/	/	<=13	Pass
	3684.99	Outer_Full	7.92	/	/	<=13	Pass
DFT-s-OFDM QPSK	3565.02	Outer_Full	9.24	/	/	<=13	Pass
	3624.99	Outer_Full	8.53	/	/	<=13	Pass
	3684.99	Outer_Full	9.04	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3565.02	Outer_Full	10.06	/	/	<=13	Pass
	3624.99	Outer_Full	9.74	/	/	<=13	Pass
	3684.99	Outer_Full	9.87	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3565.02	Outer_Full	10.06	/	/	<=13	Pass
	3624.99	Outer_Full	9.99	/	/	<=13	Pass
	3684.99	Outer_Full	9.90	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3565.02	Outer_Full	10.03	/	/	<=13	Pass
	3624.99	Outer_Full	10.06	/	/	<=13	Pass
	3684.99	Outer_Full	9.90	/	/	<=13	Pass
CP-OFDM QPSK	3565.02	Outer_Full	11.58	/	/	<=13	Pass
	3624.99	Outer_Full	11.05	/	/	<=13	Pass
	3684.99	Outer_Full	10.82	/	/	<=13	Pass
CP-OFDM 16 QAM	3565.02	Outer_Full	12.07	/	/	<=13	Pass
	3624.99	Outer_Full	11.64	/	/	<=13	Pass
	3684.99	Outer_Full	11.14	/	/	<=13	Pass
CP-OFDM 64 QAM	3565.02	Outer_Full	12.22	/	/	<=13	Pass
	3624.99	Outer_Full	11.81	/	/	<=13	Pass
	3684.99	Outer_Full	11.32	/	/	<=13	Pass
CP-OFDM 256 QAM	3565.02	Outer_Full	11.79	/	/	<=13	Pass
	3624.99	Outer_Full	11.83	/	/	<=13	Pass
	3684.99	Outer_Full	11.78	/	/	<=13	Pass

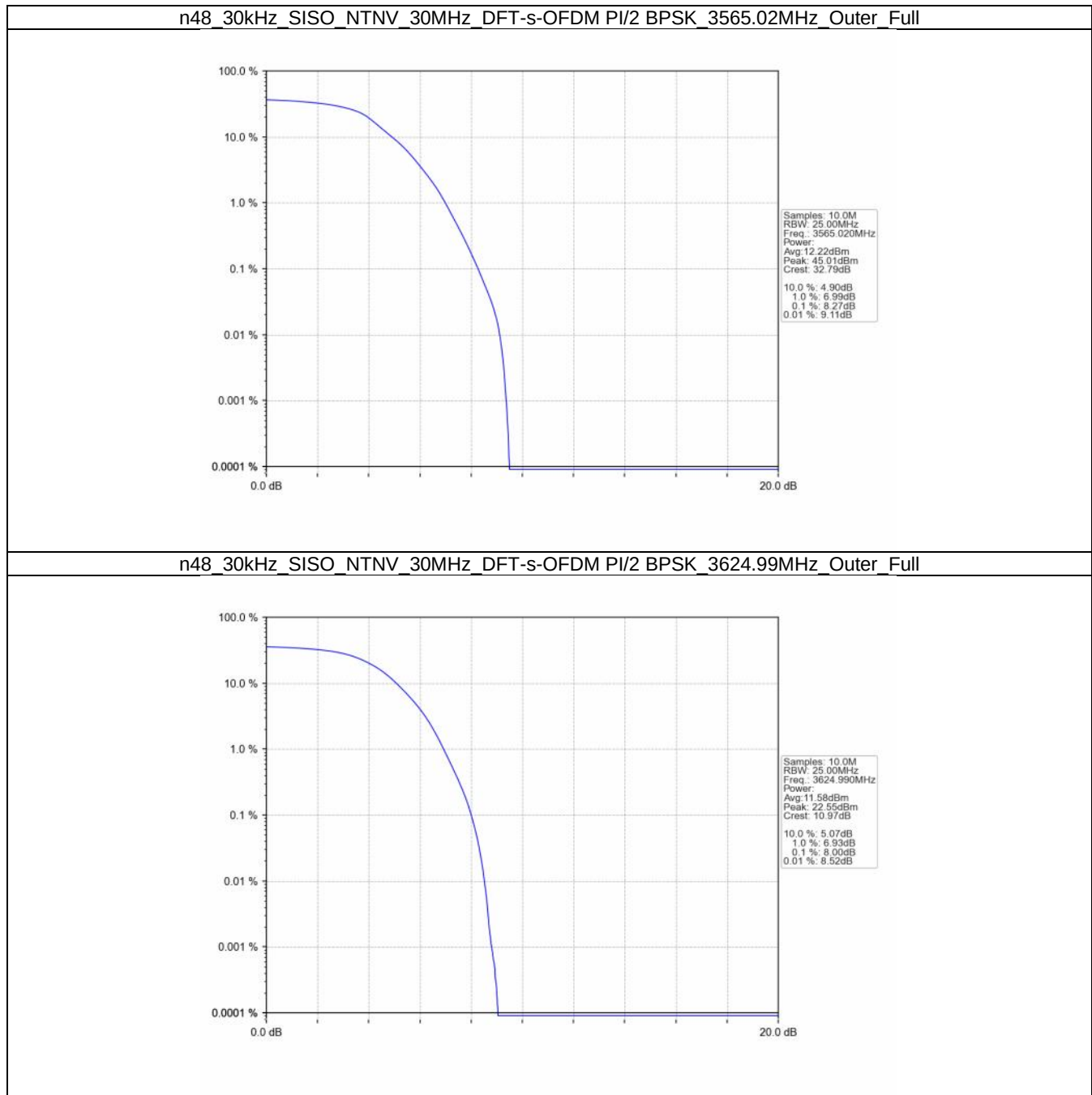


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6.3.2 Test Graph

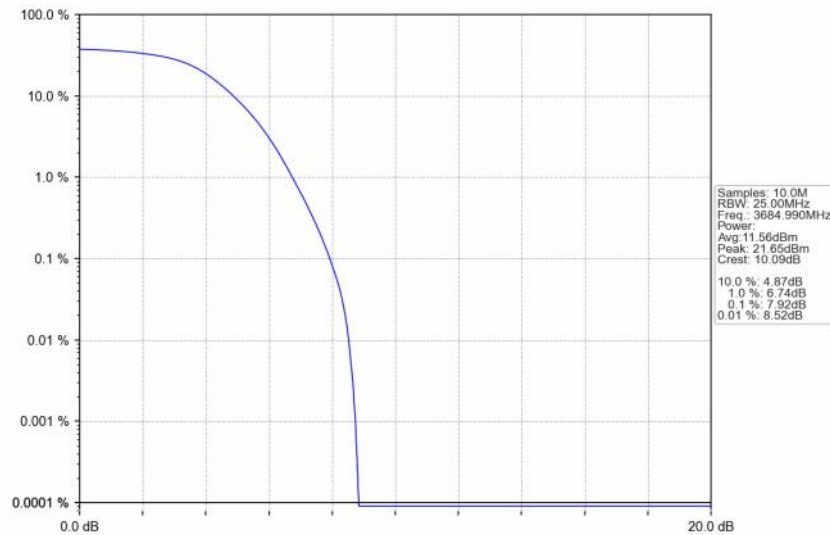


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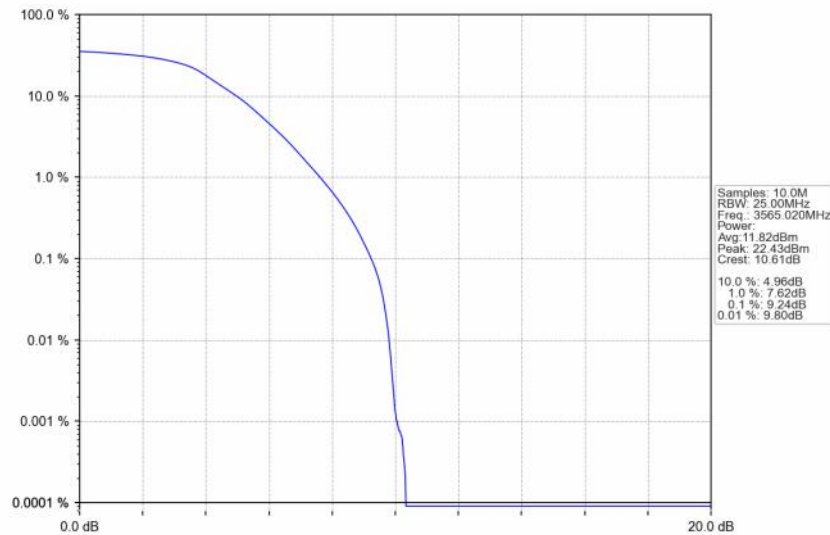
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n48_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM QPSK_3565.02MHz_Outer_Full

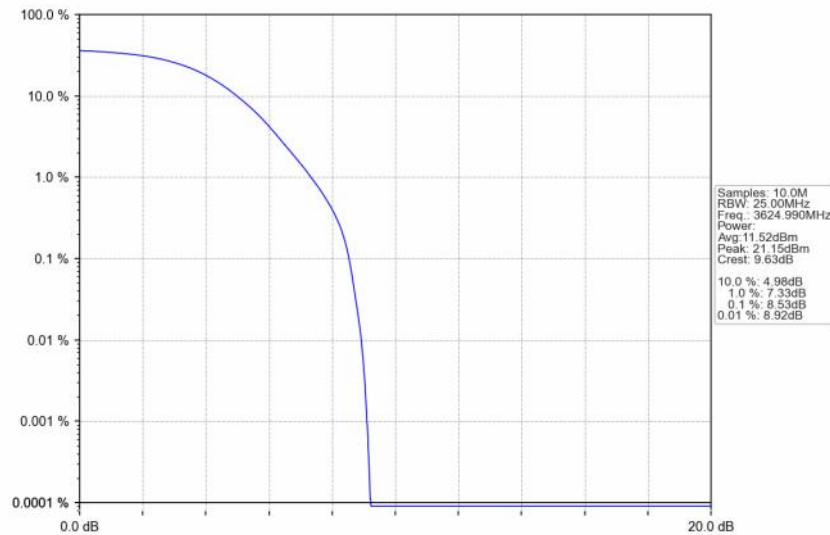


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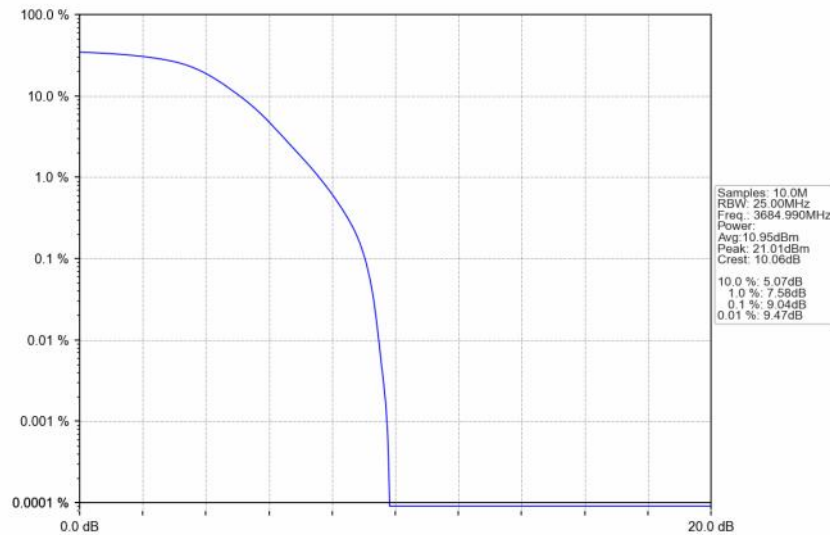
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n48_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM QPSK_3624.99MHz_Outer_Full



n48_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM QPSK_3684.99MHz_Outer_Full

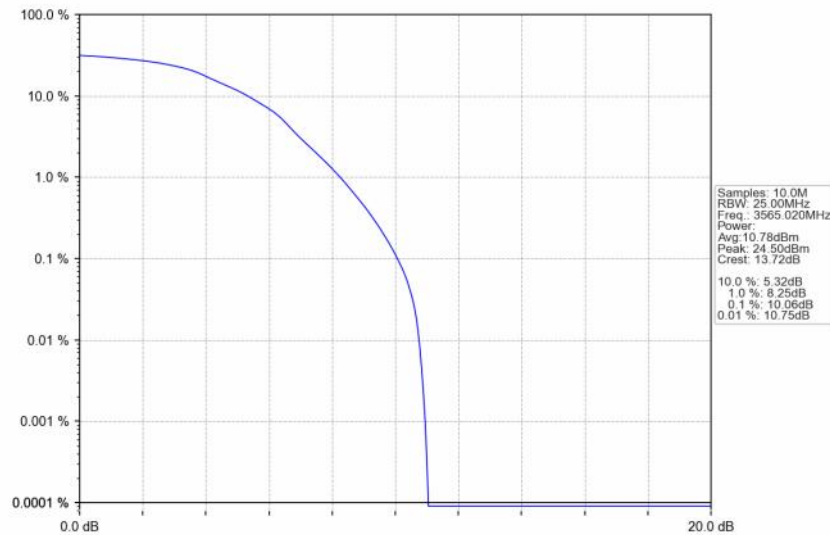


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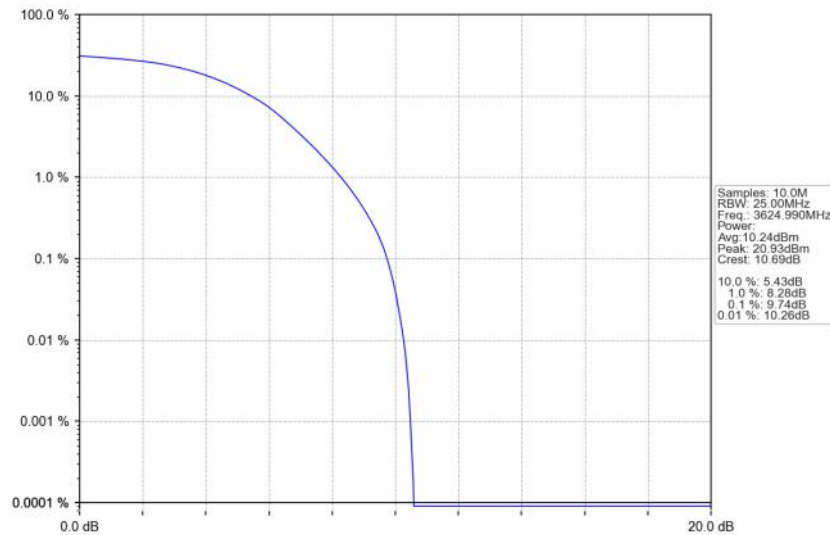
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n48_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_16_QAM_3565.02MHz_Outer_Full



n48_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_16_QAM_3624.99MHz_Outer_Full

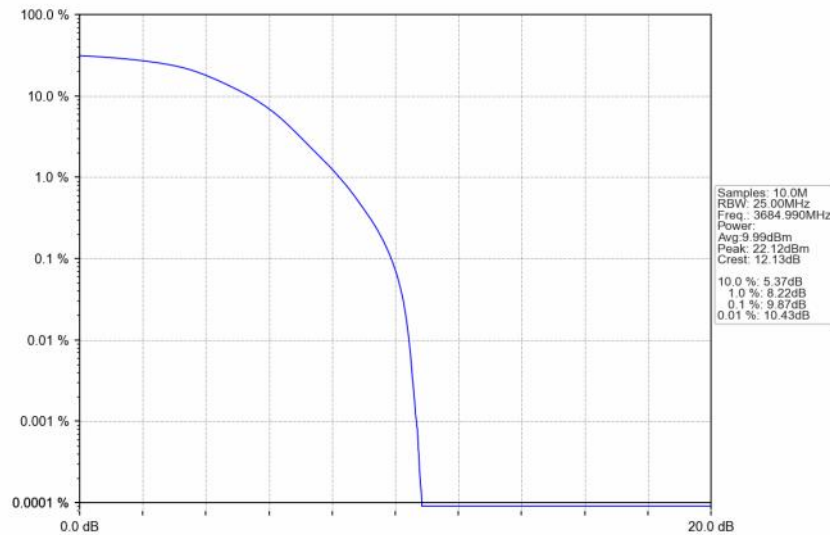


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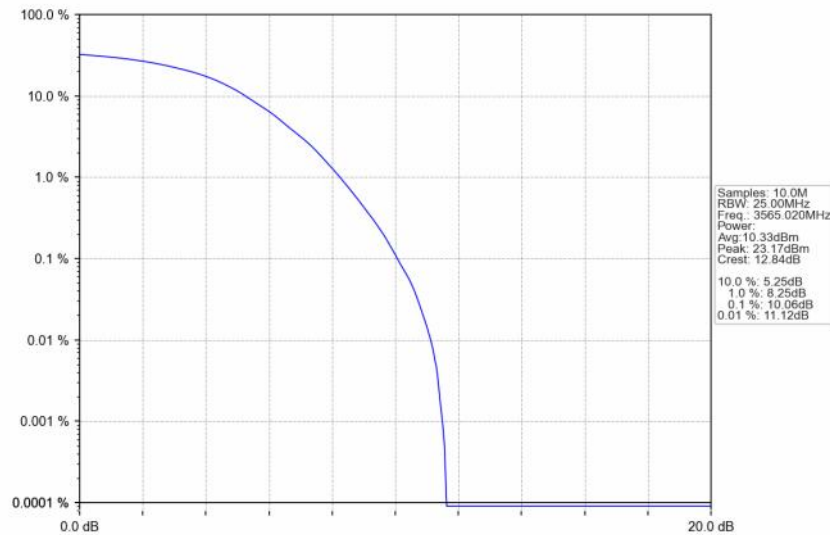
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n48_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_16_QAM_3684.99MHz_Outer_Full



n48_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_64_QAM_3565.02MHz_Outer_Full

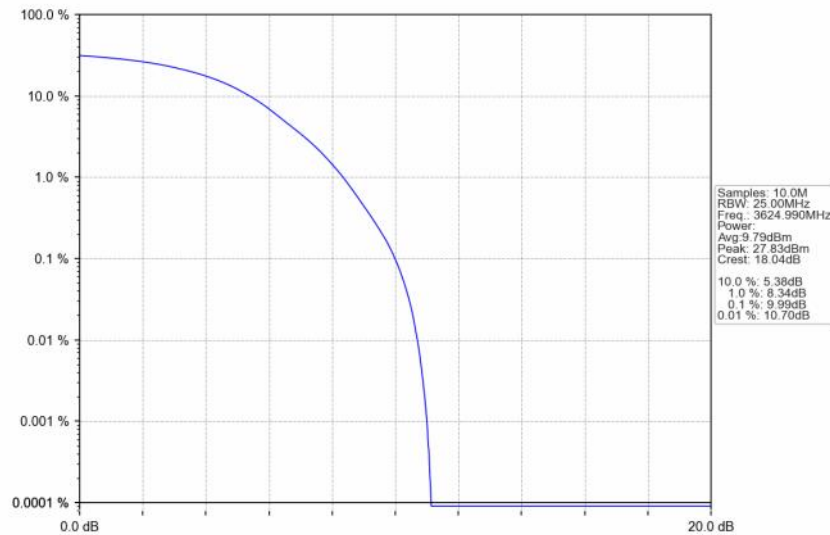


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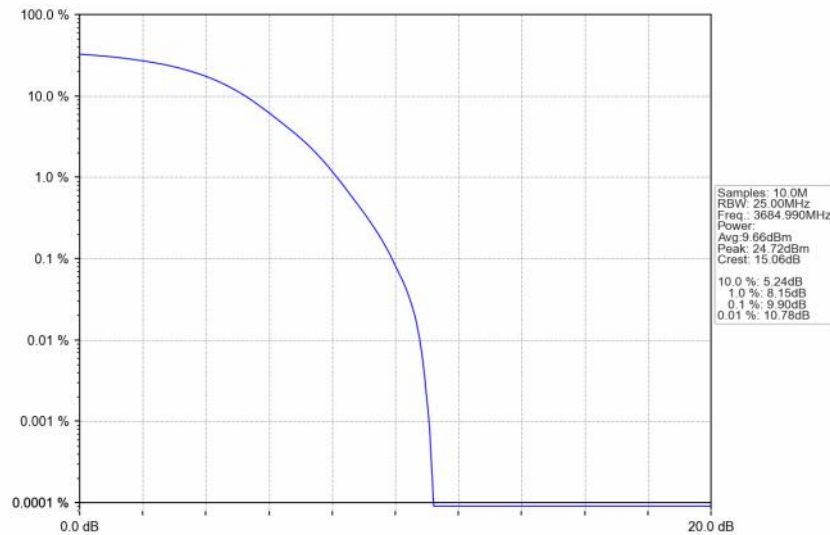
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n48_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_64_QAM_3624.99MHz_Outer_Full



n48_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_64_QAM_3684.99MHz_Outer_Full

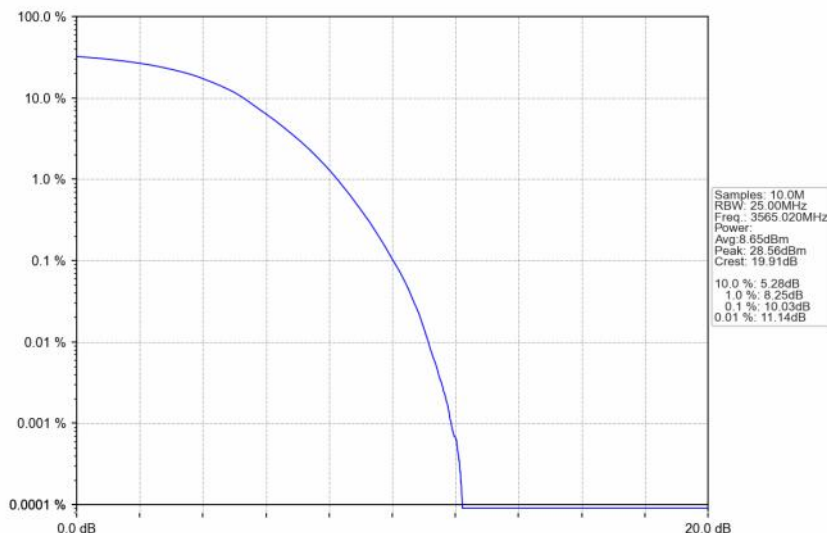


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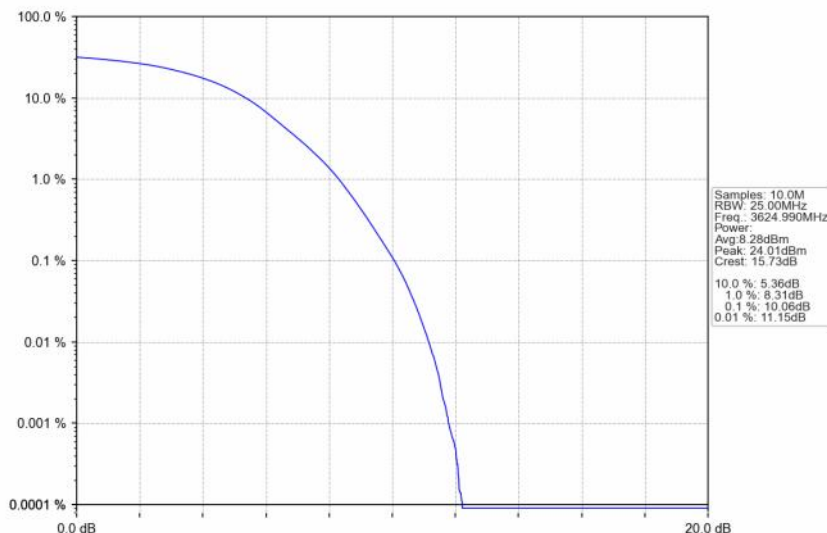
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n48_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_256_QAM_3565.02MHz_Outer_Full



n48_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_256_QAM_3624.99MHz_Outer_Full

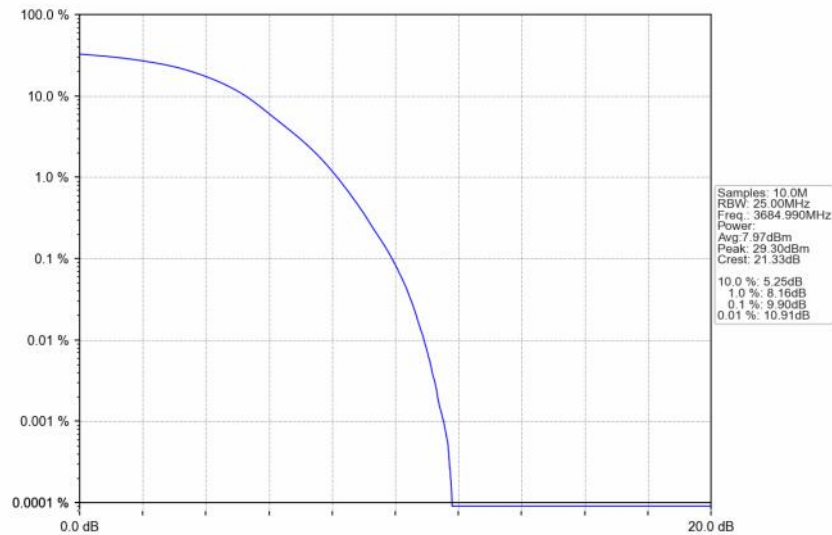


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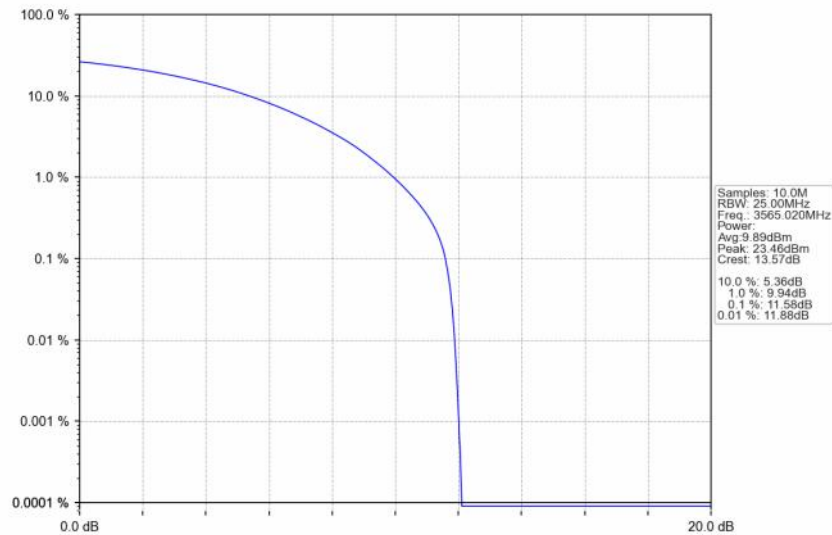
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n48_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM 256 QAM_3684.99MHz_Outer_Full



n48_30kHz_SISO_NTNV_30MHz_CP-OFDM QPSK_3565.02MHz_Outer_Full

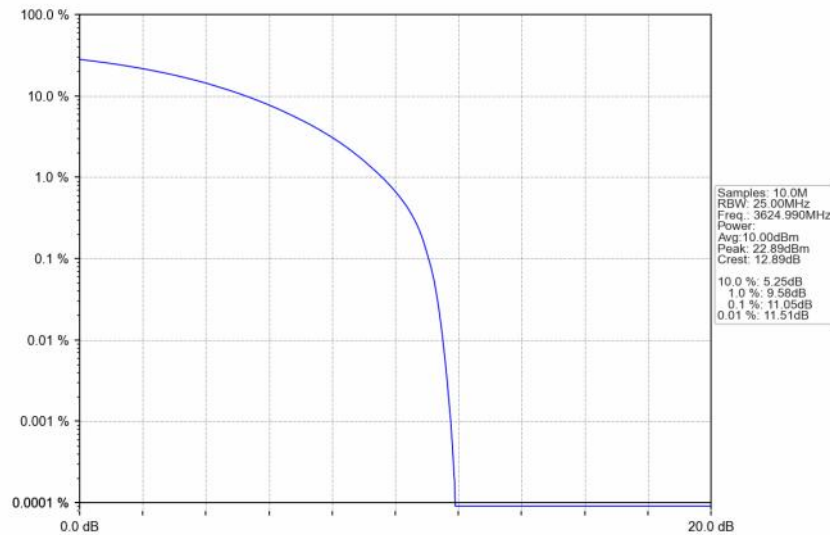


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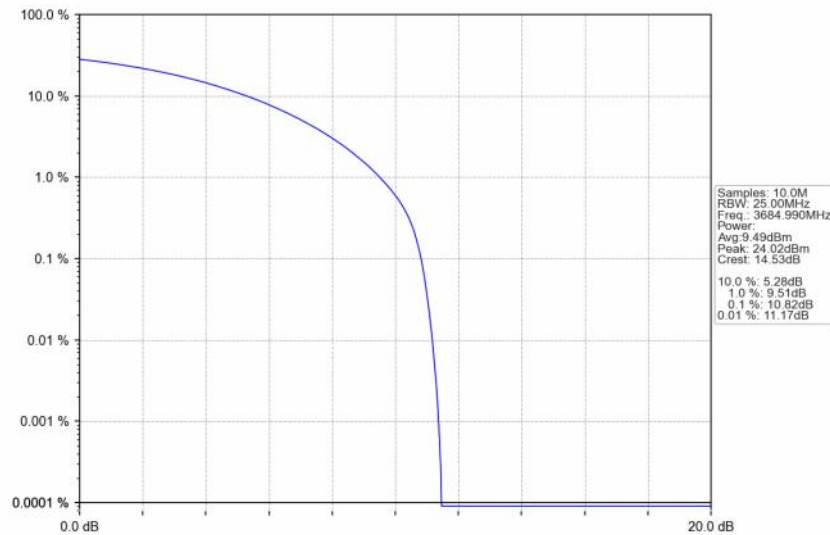
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n48_30kHz_SISO_NTNV_30MHz_CP-OFDM QPSK_3624.99MHz_Outer_Full



n48_30kHz_SISO_NTNV_30MHz_CP-OFDM QPSK_3684.99MHz_Outer_Full

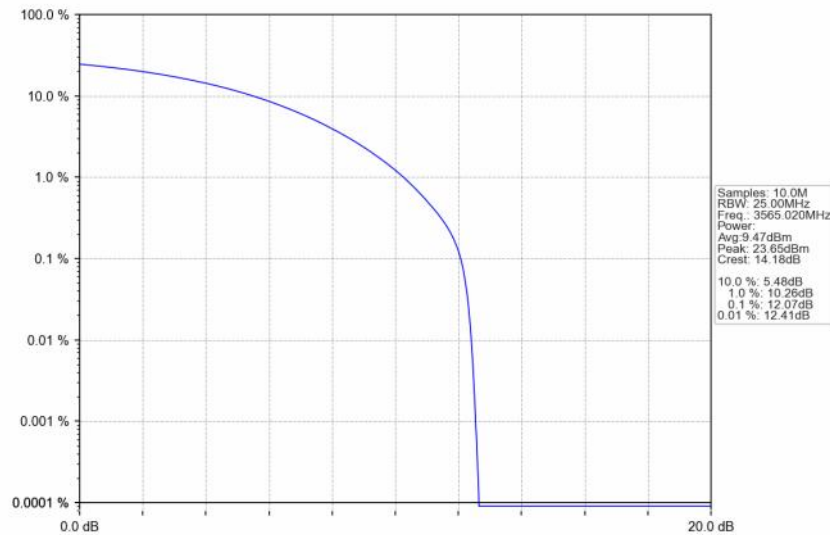


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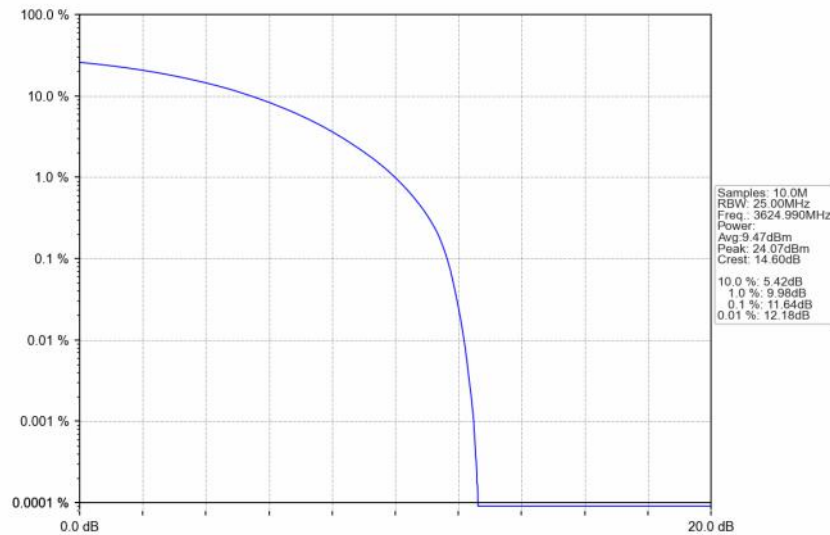
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n48_30kHz_SISO_NTNV_30MHz_CP-OFDM_16_QAM_3565.02MHz_Outer_Full



n48_30kHz_SISO_NTNV_30MHz_CP-OFDM_16_QAM_3624.99MHz_Outer_Full

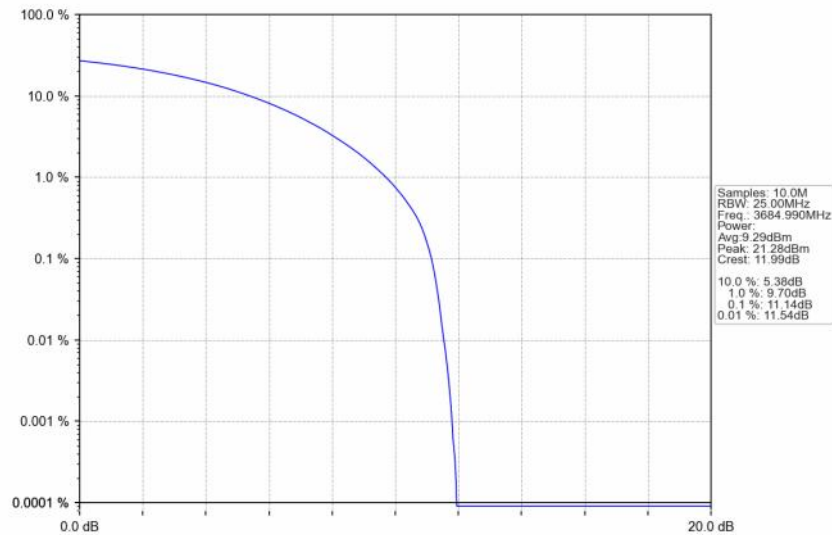


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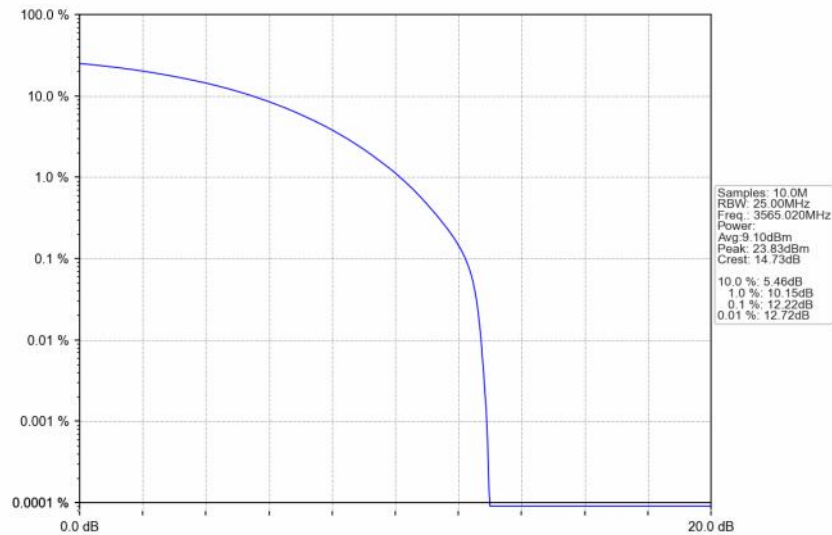
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n48_30kHz_SISO_NTNV_30MHz_CP-OFDM_64_QAM_3565.02MHz_Outer_Full

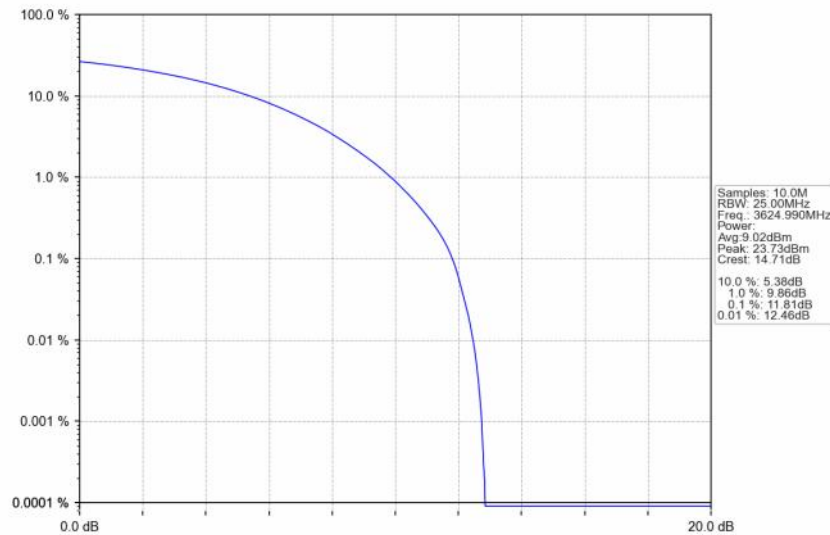


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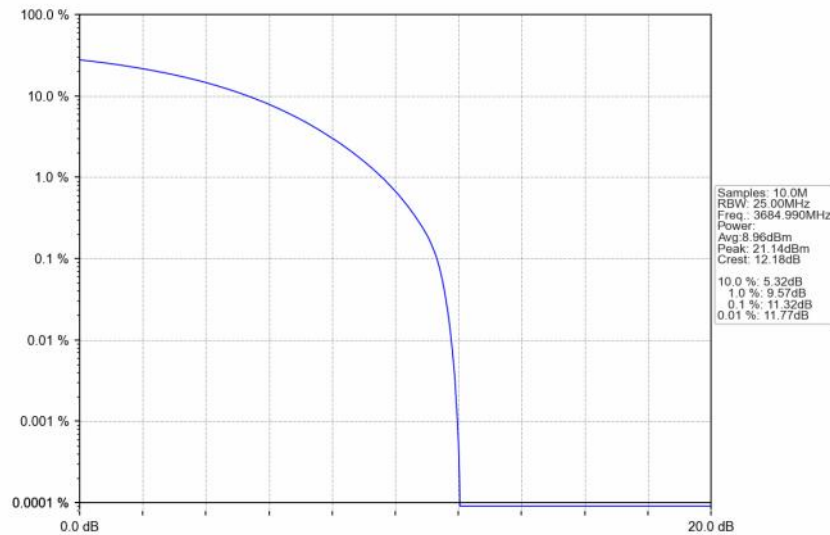
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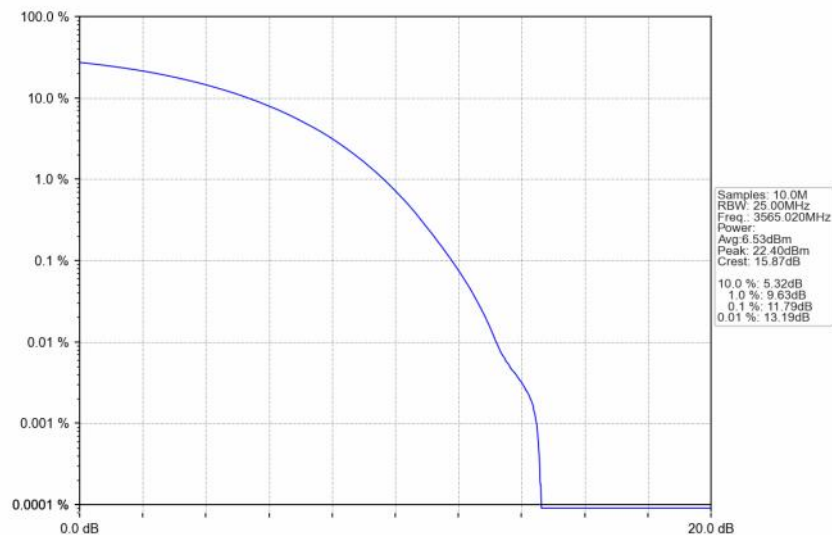


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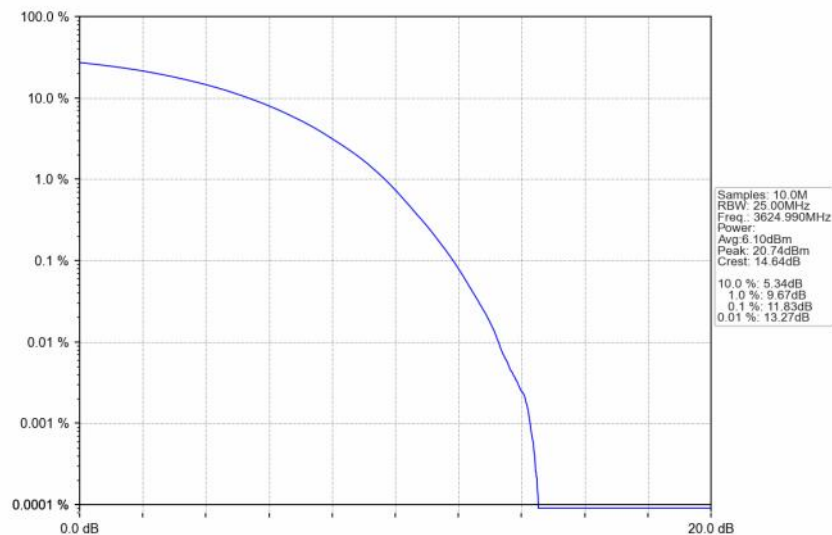
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n48_30kHz_SISO_NTNV_30MHz_CP-OFDM 256 QAM_3624.99MHz_Outer_Full

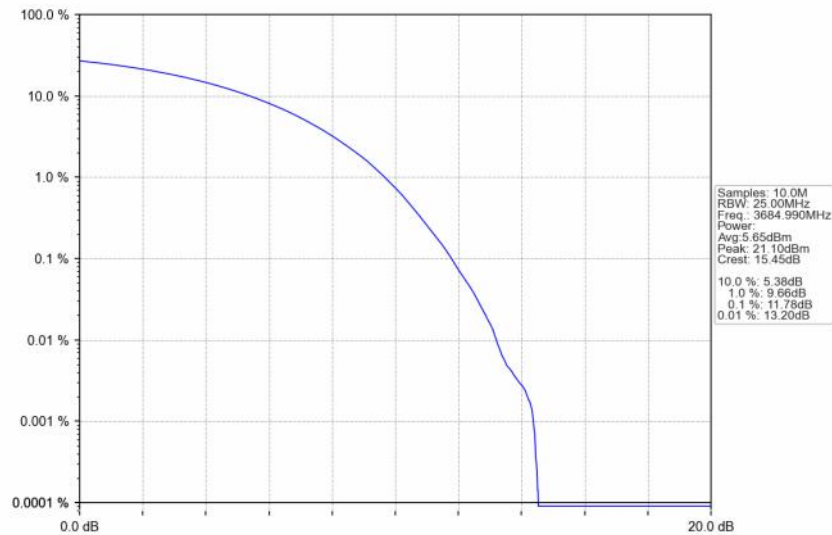


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n48_30kHz_SISO_NTNV_30MHz_CP-OFDM 256 QAM_3684.99MHz_Outer_Full



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6.4 30k_SISO_40MHz_NTNV

6.4.1 Test Result

5G NR n48 SCS=30kHz SISO 40MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3570	Outer_Full	8.20	/	/	<=13	Pass
	3624.99	Outer_Full	8.29	/	/	<=13	Pass
	3679.98	Outer_Full	8.29	/	/	<=13	Pass
DFT-s-OFDM QPSK	3570	Outer_Full	8.68	/	/	<=13	Pass
	3624.99	Outer_Full	8.95	/	/	<=13	Pass
	3679.98	Outer_Full	8.85	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3570	Outer_Full	10.06	/	/	<=13	Pass
	3624.99	Outer_Full	9.68	/	/	<=13	Pass
	3679.98	Outer_Full	9.79	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3570	Outer_Full	10.32	/	/	<=13	Pass
	3624.99	Outer_Full	10.26	/	/	<=13	Pass
	3679.98	Outer_Full	10.04	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3570	Outer_Full	10.46	/	/	<=13	Pass
	3624.99	Outer_Full	10.46	/	/	<=13	Pass
	3679.98	Outer_Full	9.87	/	/	<=13	Pass
CP-OFDM QPSK	3570	Outer_Full	11.36	/	/	<=13	Pass
	3624.99	Outer_Full	11.56	/	/	<=13	Pass
	3679.98	Outer_Full	11.26	/	/	<=13	Pass
CP-OFDM 16 QAM	3570	Outer_Full	11.58	/	/	<=13	Pass
	3624.99	Outer_Full	11.73	/	/	<=13	Pass
	3679.98	Outer_Full	11.51	/	/	<=13	Pass
CP-OFDM 64 QAM	3570	Outer_Full	11.78	/	/	<=13	Pass
	3624.99	Outer_Full	11.81	/	/	<=13	Pass
	3679.98	Outer_Full	11.54	/	/	<=13	Pass
CP-OFDM 256 QAM	3570	Outer_Full	11.81	/	/	<=13	Pass
	3624.99	Outer_Full	11.63	/	/	<=13	Pass
	3679.98	Outer_Full	11.52	/	/	<=13	Pass

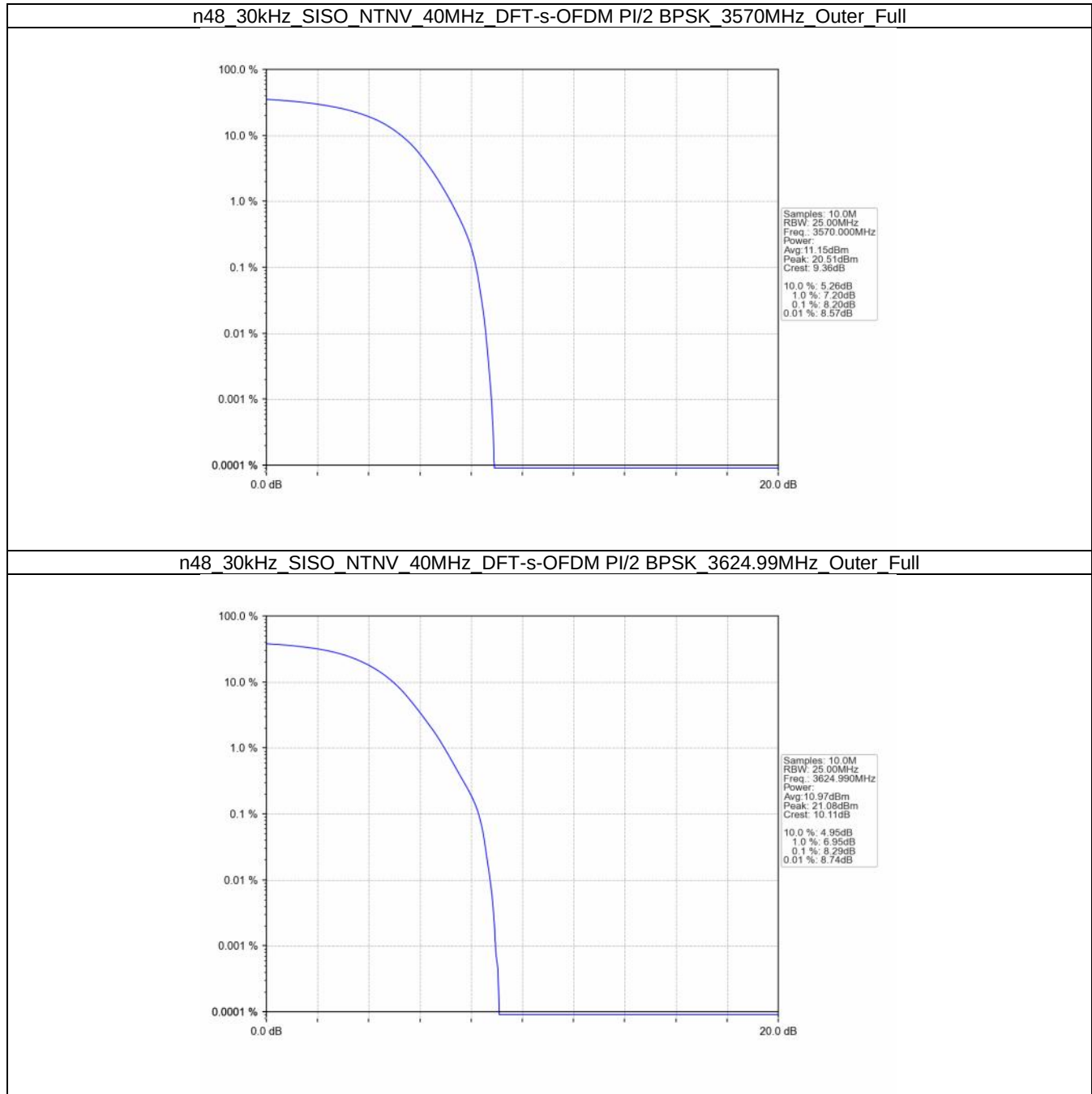


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6.4.2 Test Graph

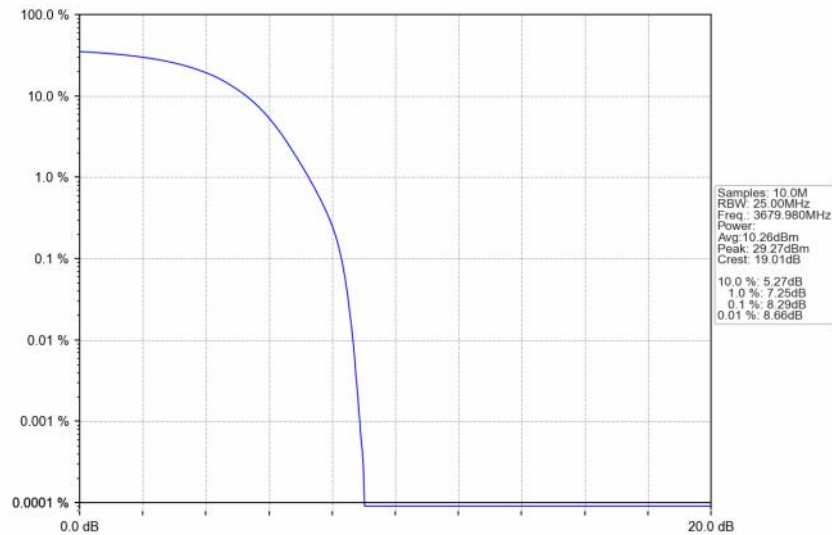


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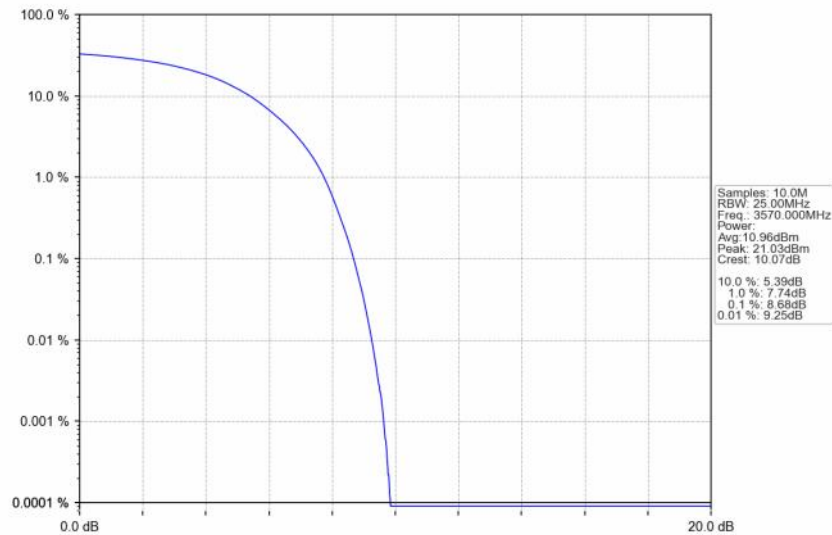
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n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM PI/2 BPSK_3679.98MHz_Outer_Full



n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM QPSK_3570MHz_Outer_Full

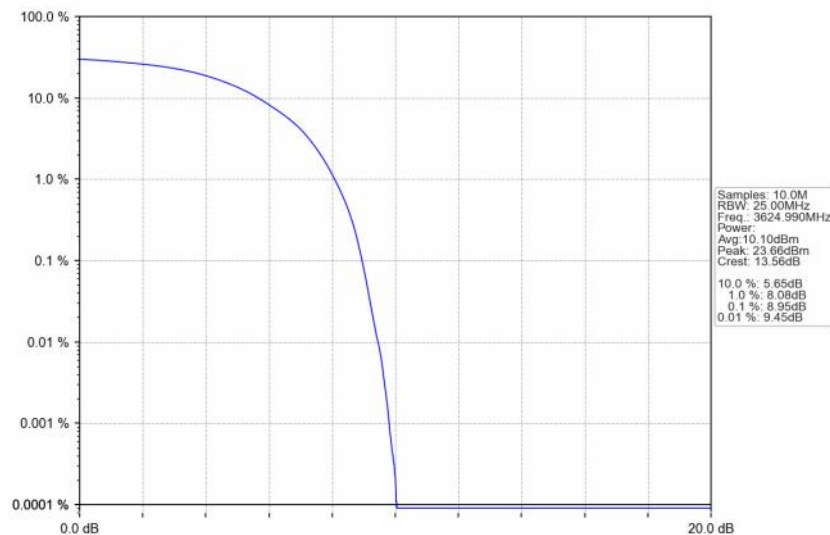


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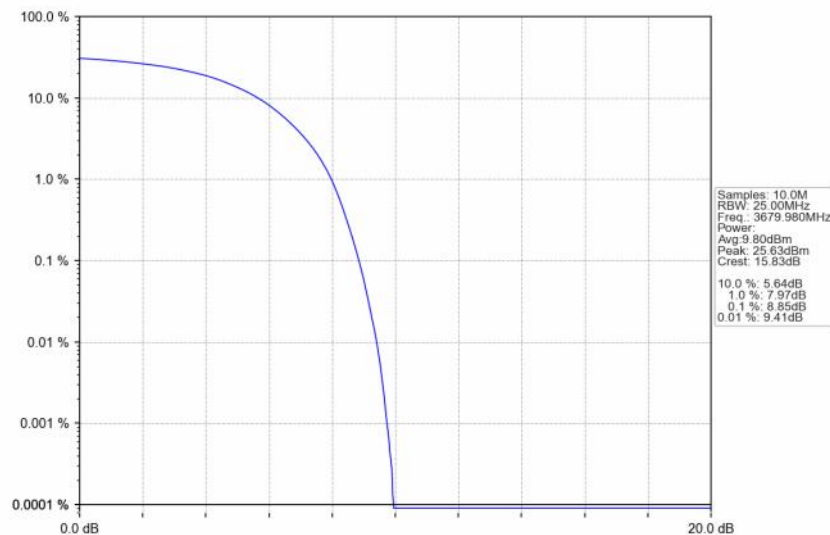
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n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM QPSK_3624.99MHz_Outer_Full



n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM QPSK_3679.98MHz_Outer_Full

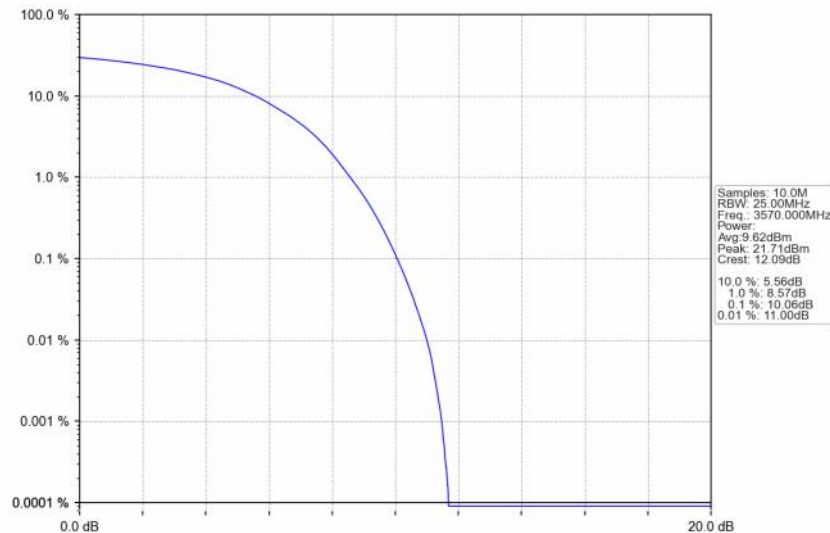


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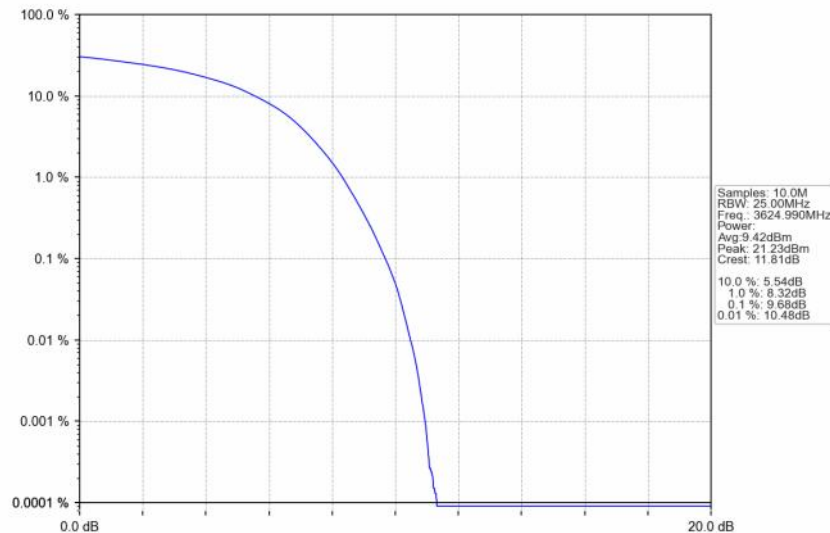
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n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_16_QAM_3570MHz_Outer_Full



n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_16_QAM_3624.99MHz_Outer_Full

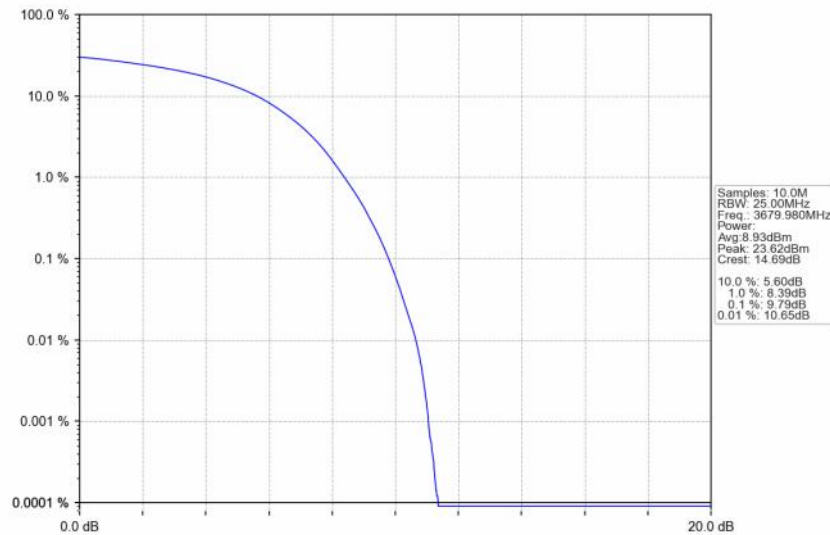


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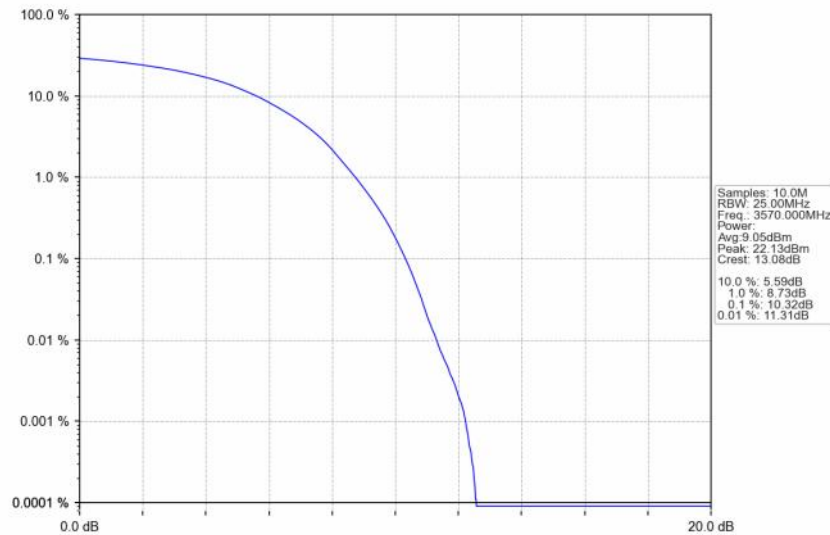
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n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM 16 QAM_3679.98MHz_Outer_Full



n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM 64 QAM_3570MHz_Outer_Full

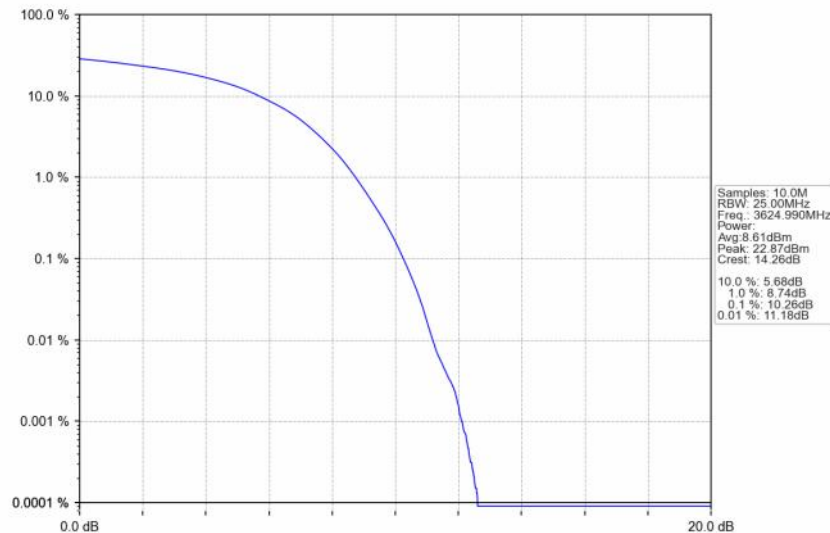


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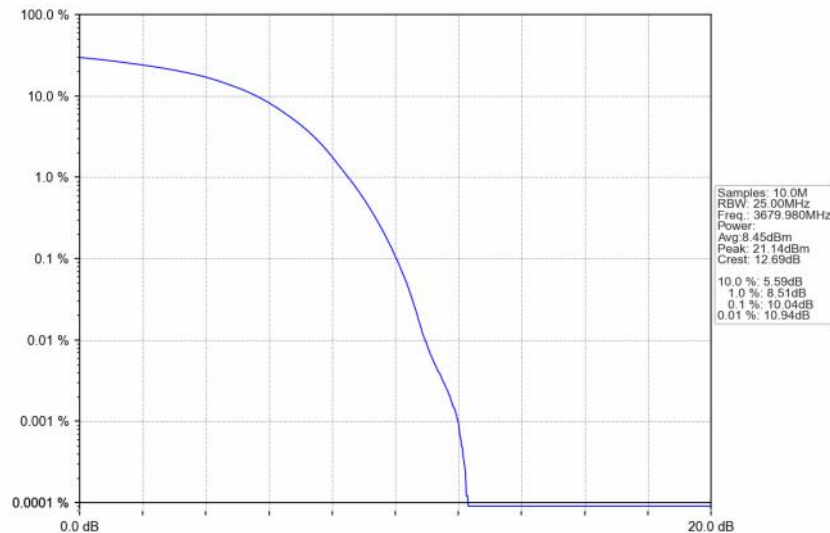
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n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_64_QAM_3624.99MHz_Outer_Full



n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_64_QAM_3679.98MHz_Outer_Full

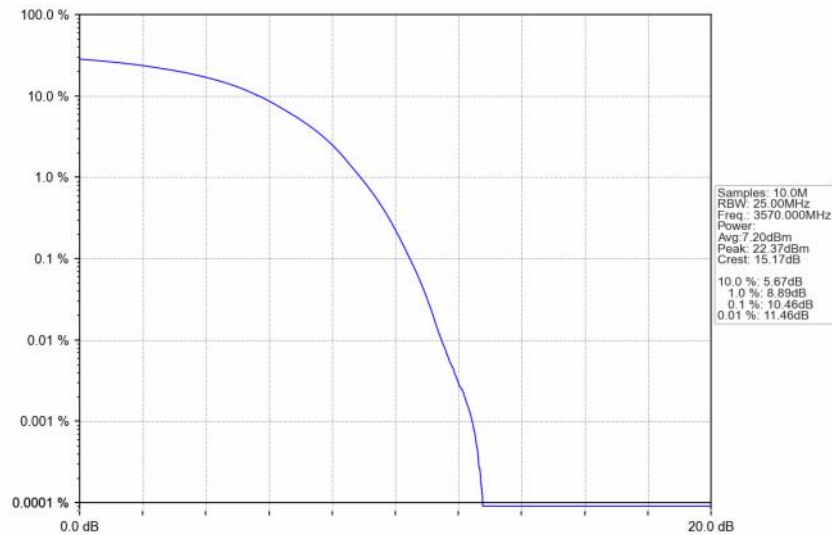


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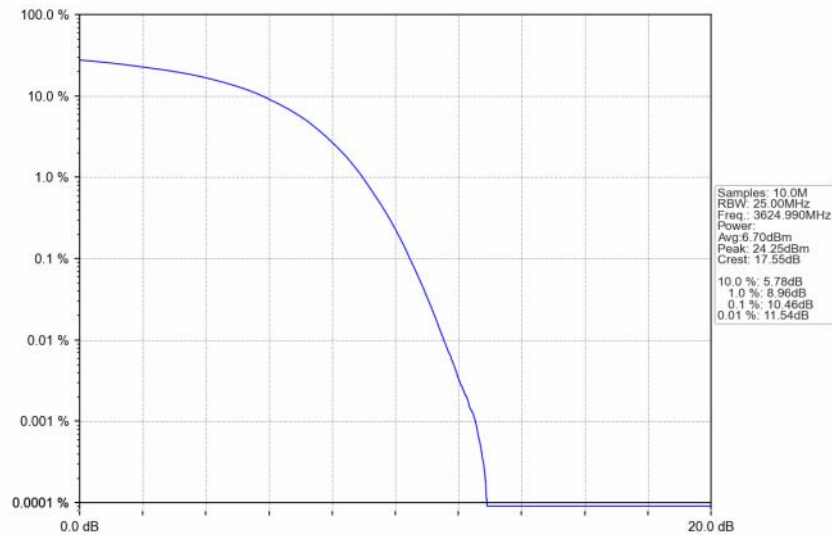
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n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_256_QAM_3570MHz_Outer_Full



n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_256_QAM_3624.99MHz_Outer_Full

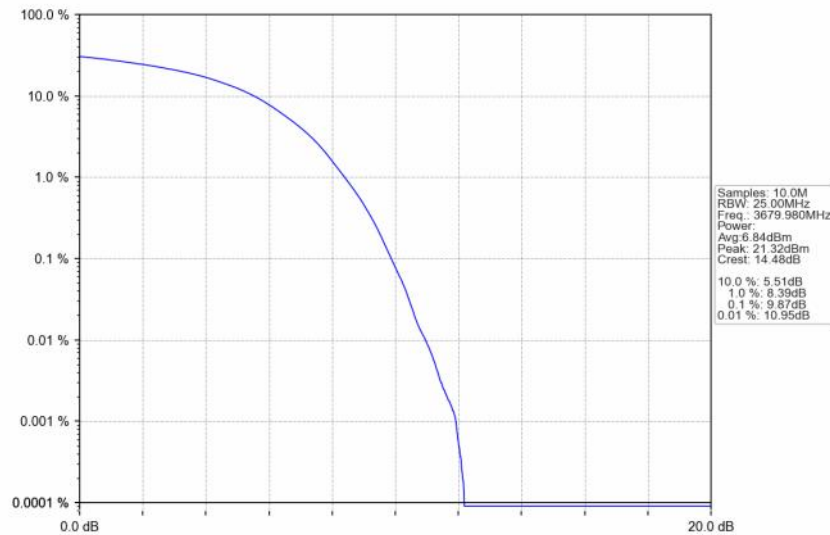


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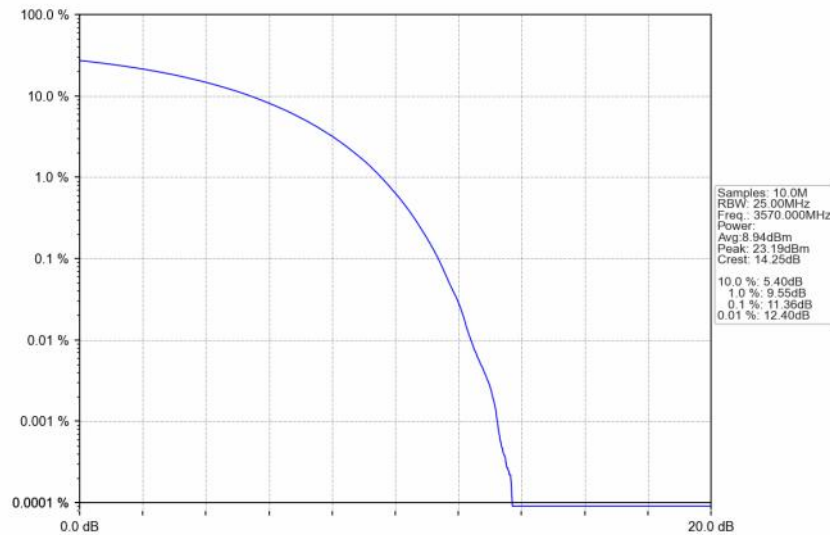
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n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM 256 QAM_3679.98MHz_Outer_Full



n48_30kHz_SISO_NTNV_40MHz_CP-OFDM QPSK_3570MHz_Outer_Full

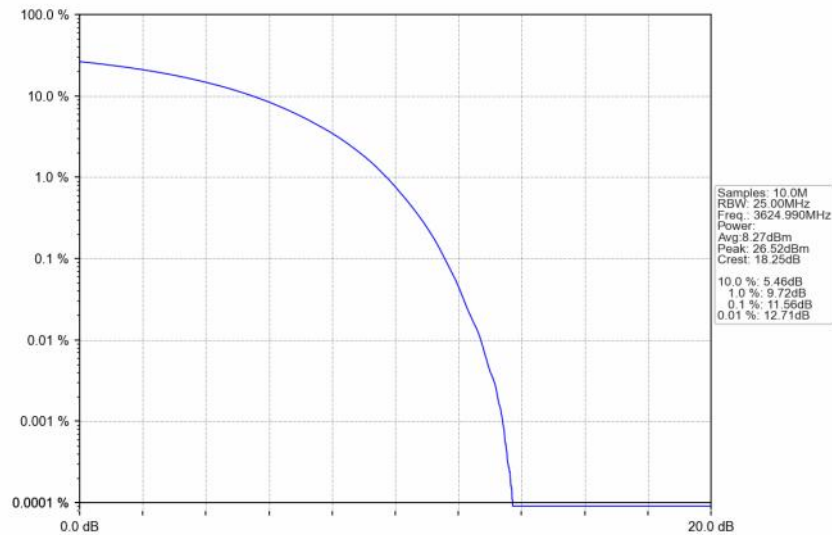


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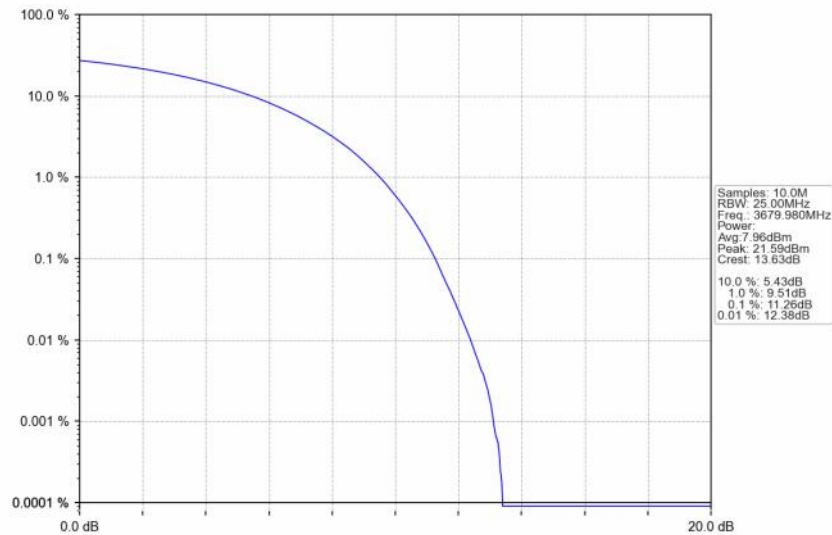
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n48_30kHz_SISO_NTNV_40MHz_CP-OFDM QPSK_3624.99MHz_Outer_Full



n48_30kHz_SISO_NTNV_40MHz_CP-OFDM QPSK_3679.98MHz_Outer_Full

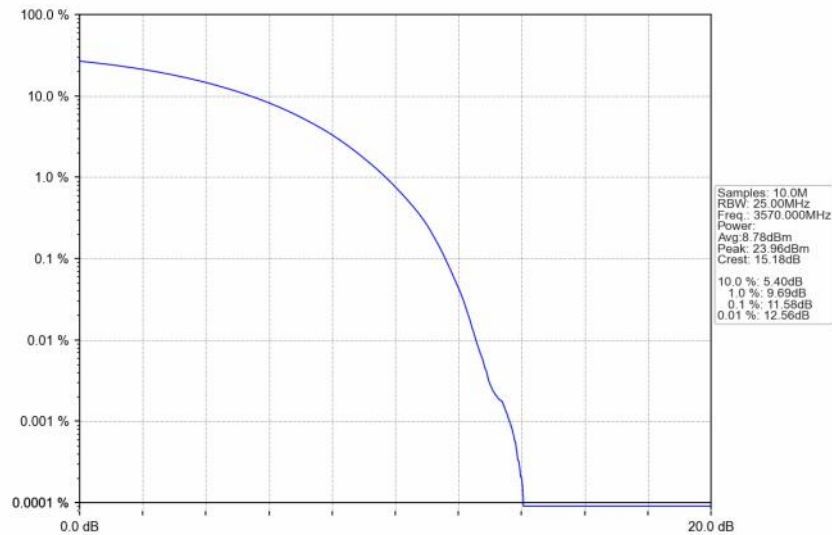


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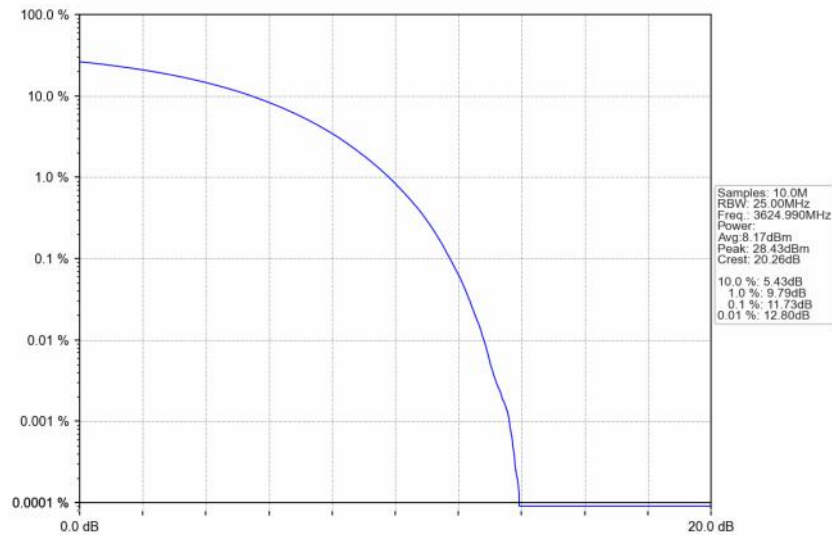
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n48_30kHz_SISO_NTNV_40MHz_CP-OFDM_16_QAM_3570MHz_Outer_Full



n48_30kHz_SISO_NTNV_40MHz_CP-OFDM_16_QAM_3624.99MHz_Outer_Full

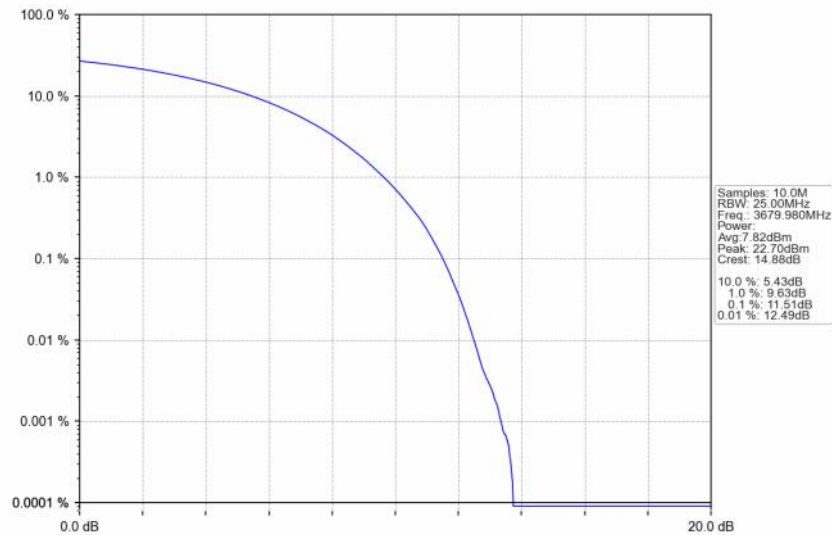


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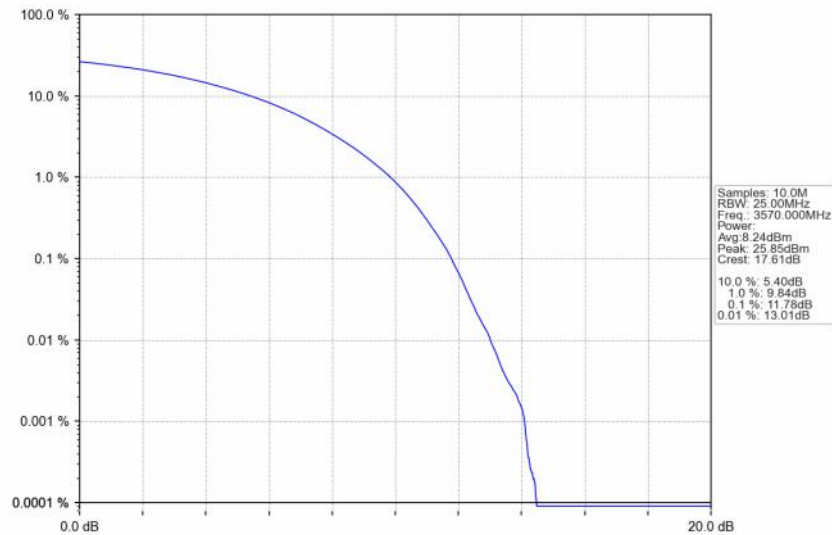
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n48_30kHz_SISO_NTNV_40MHz_CP-OFDM_16_QAM_3679.98MHz_Outer_Full



n48_30kHz_SISO_NTNV_40MHz_CP-OFDM_64_QAM_3570MHz_Outer_Full

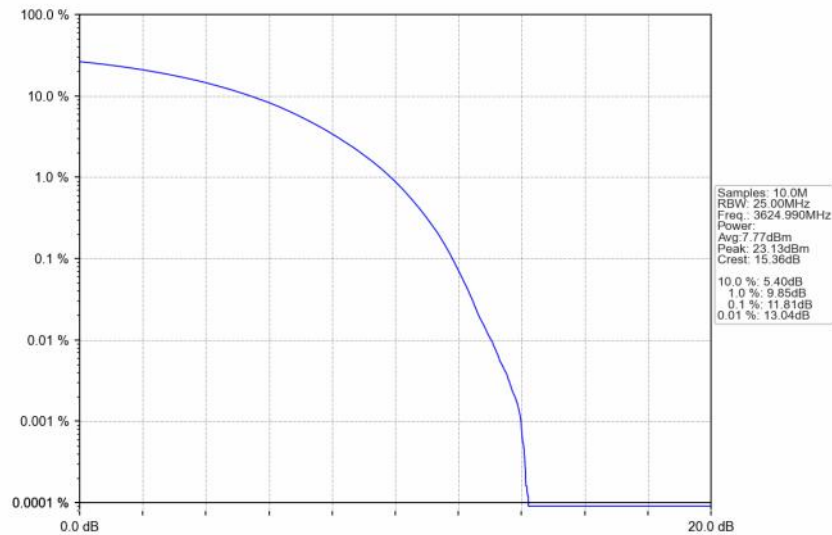


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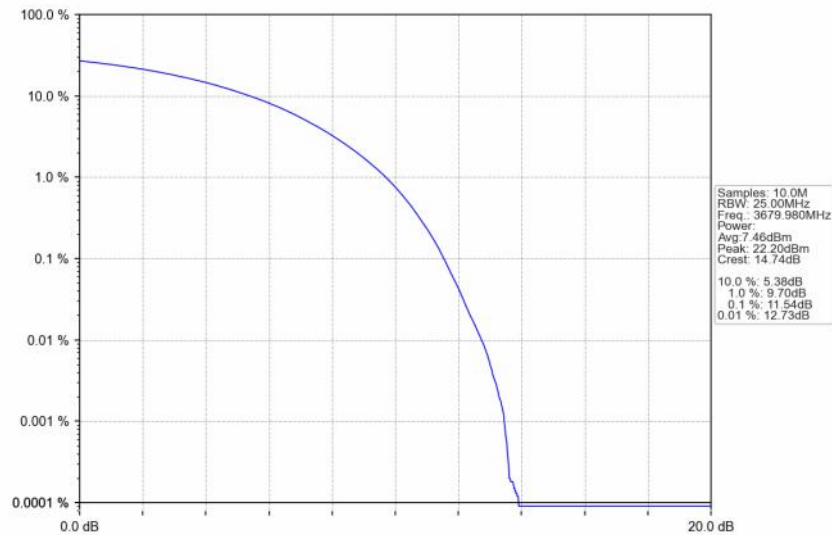
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n48_30kHz_SISO_NTNV_40MHz_CP-OFDM_64_QAM_3624.99MHz_Outer_Full



n48_30kHz_SISO_NTNV_40MHz_CP-OFDM_64_QAM_3679.98MHz_Outer_Full

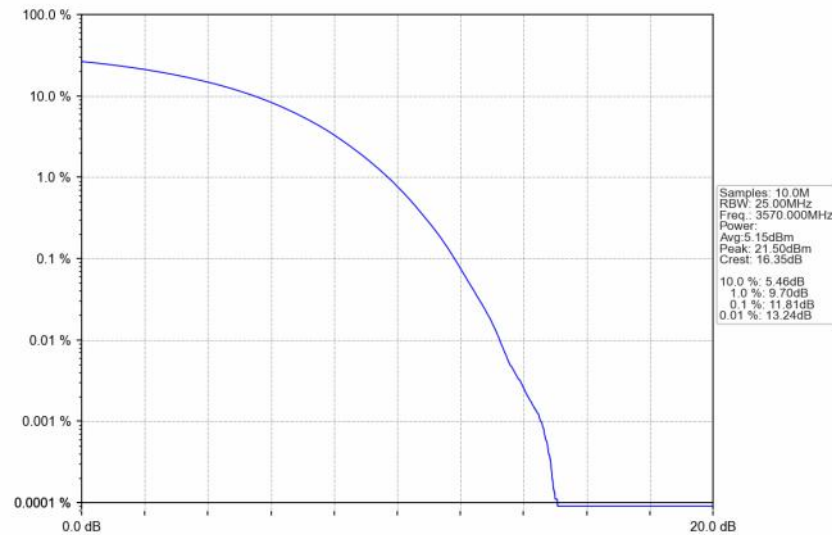


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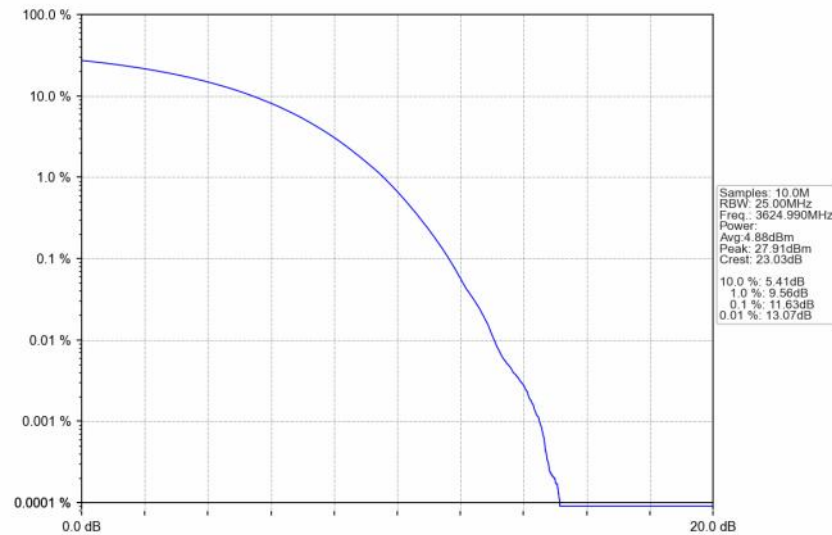
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n48_30kHz_SISO_NTNV_40MHz_CP-OFDM 256 QAM_3570MHz_Outer_Full



n48_30kHz_SISO_NTNV_40MHz_CP-OFDM 256 QAM_3624.99MHz_Outer_Full

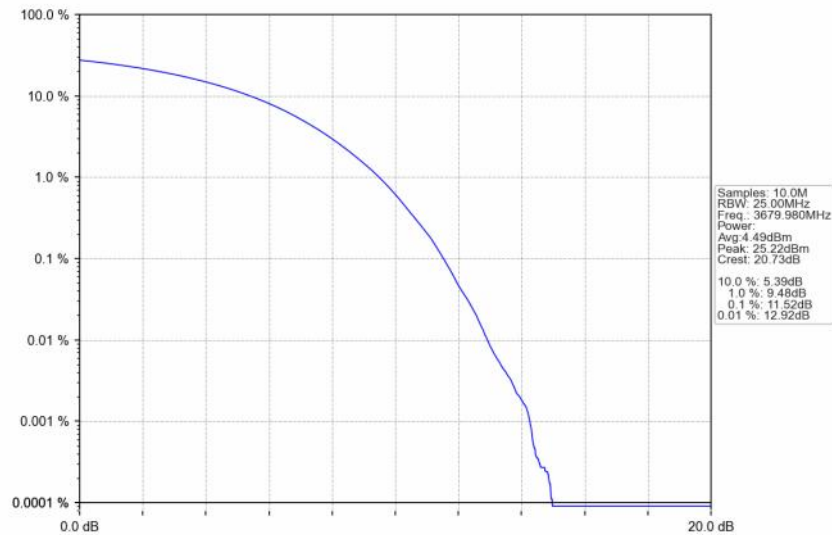


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n48_30kHz_SISO_NTNV_40MHz_CP-OFDM_256_QAM_3679.98MHz_Outer_Full



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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	Limit		
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	
		3694.98	Edge_1RB_Right	Refer To Test Graph				Pass
			Outer_Full	Refer To Test Graph				Pass
DFT-s-OFDM QPSK	3555		Inner_1RB_Right	Refer To Test Graph				Pass
		Edge_1RB_Left	Refer To Test Graph				Pass	
		Outer_Full	Refer To Test Graph				Pass	
	3624.99	Inner_1RB_Left	Refer To Test Graph				Pass	
		Edge_1RB_Left	Refer To Test Graph				Pass	
		Edge_1RB_Right	Refer To Test Graph				Pass	
		Outer_Full	Refer To Test Graph				Pass	
CP-OFDM QPSK	3555	Inner_1RB_Right	Refer To Test Graph				Pass	
		Edge_1RB_Left	Refer To Test Graph				Pass	
		Outer_Full	Refer To Test Graph				Pass	
	3624.99	Inner_1RB_Left	Refer To Test Graph				Pass	
		Edge_1RB_Left	Refer To Test Graph				Pass	
		Edge_1RB_Right	Refer To Test Graph				Pass	
3694.98	Outer_Full	Refer To Test Graph				Pass		
	Inner_1RB_Right	Refer To Test Graph				Pass		



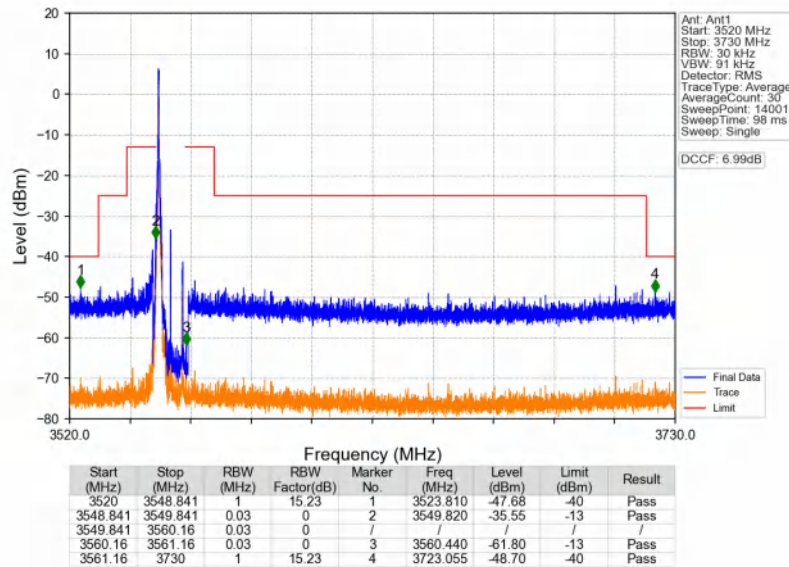
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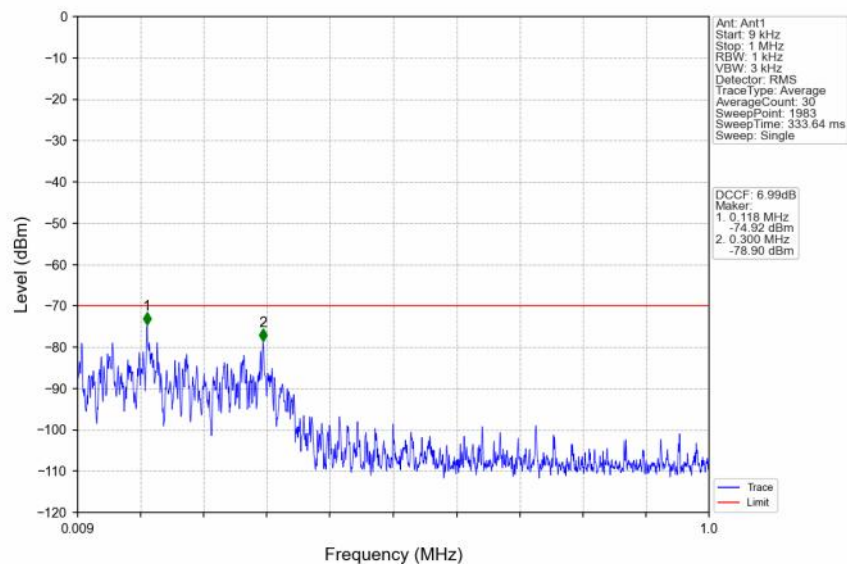
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7.1.2 Test Graph

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

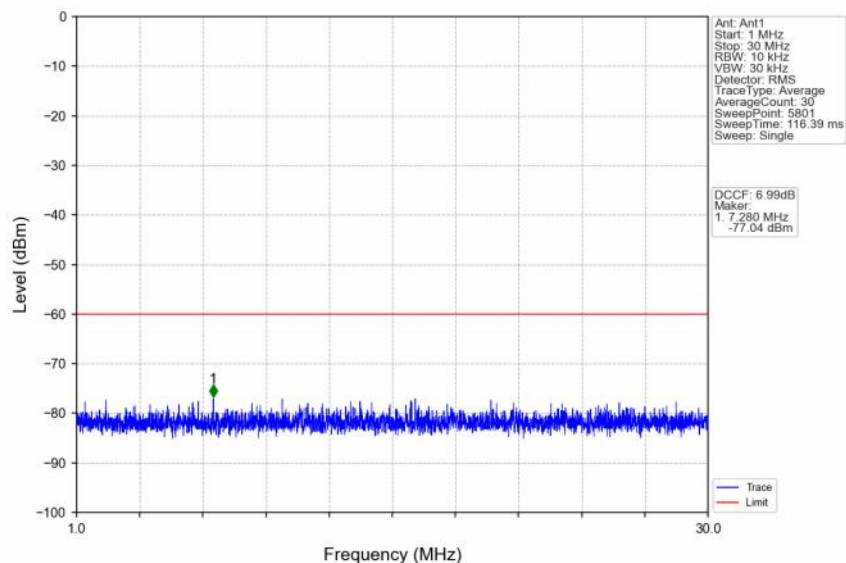


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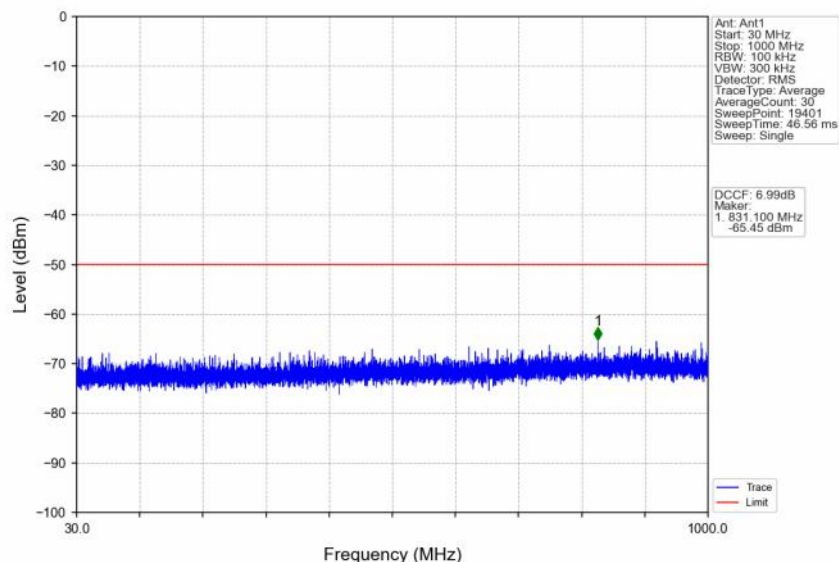
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n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_3555MHz_Edge_1RB_Left



n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_3555MHz_Edge_1RB_Left

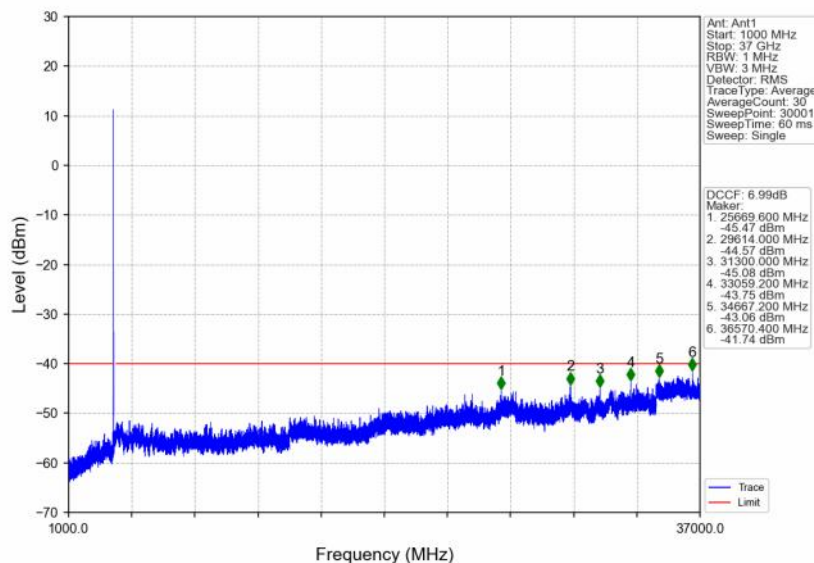


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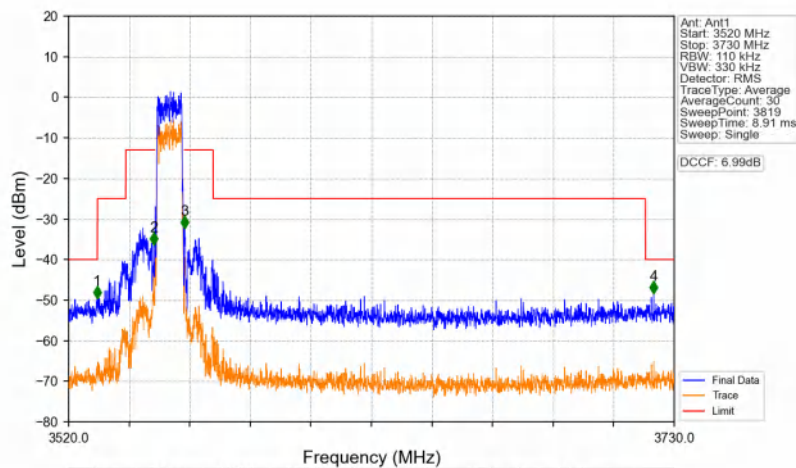
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n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_3555MHz_Edge_1RB_Left



n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_3555MHz_Outer_Full



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor (dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3520	3548.848	1	9.59	1	3529.845	-49.73	-40	Pass
3548.848	3549.848	0.11	0	2	3549.481	-36.47	-13	Pass
3549.848	3560.152	0.11	0	3	3560.207	-32.37	-13	Pass
3560.152	3730	1	9.59	4	3722.905	-48.49	-40	Pass

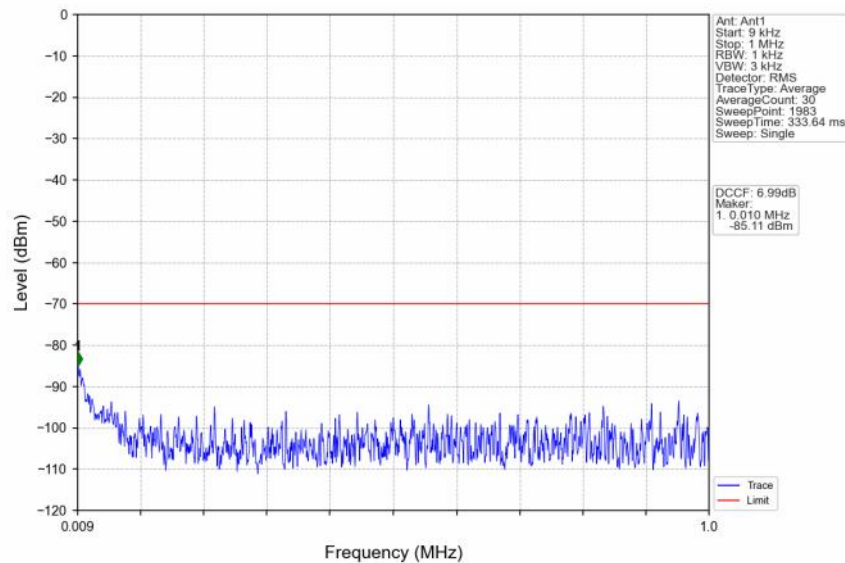


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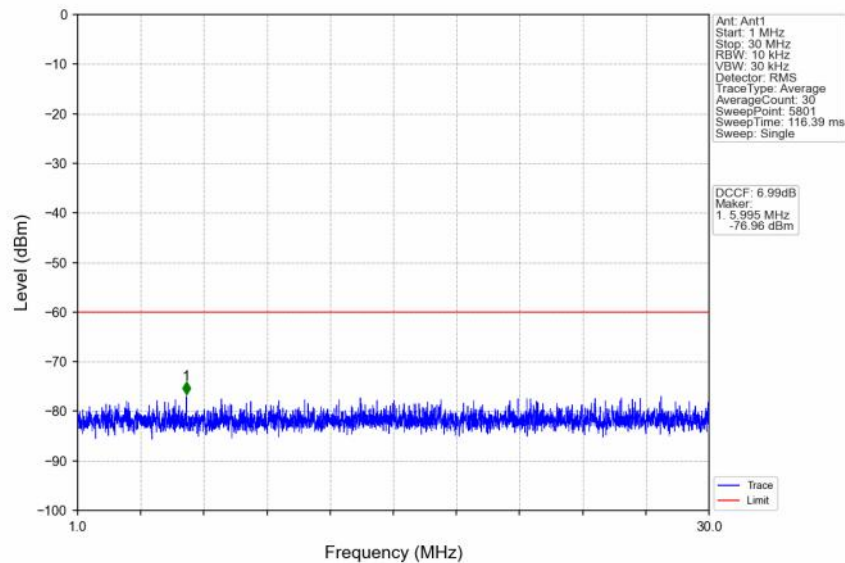
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n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_PI/2_BPSK_3555MHz_Outer_Full

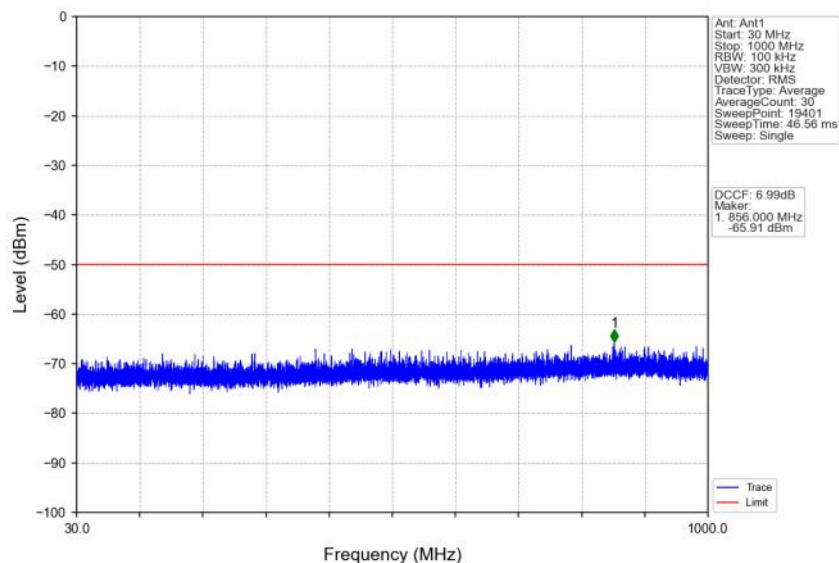


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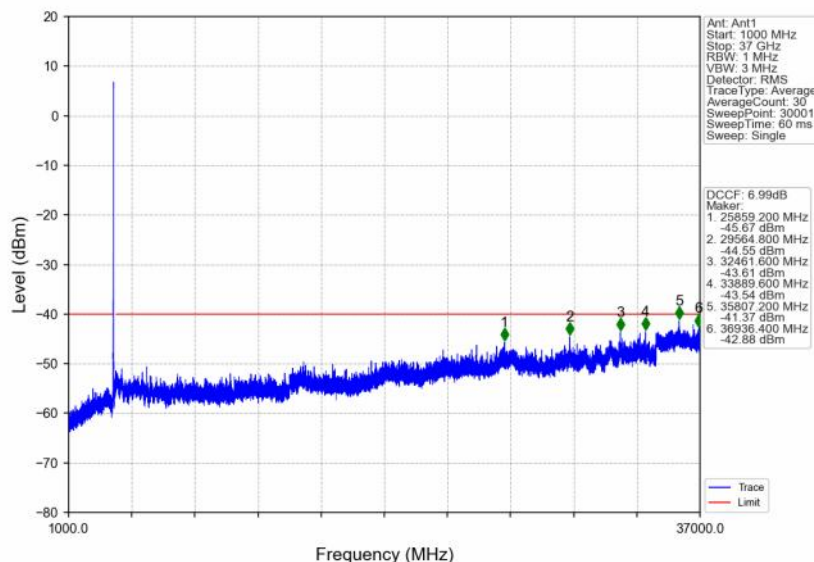
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n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_3555MHz_Outer_Full

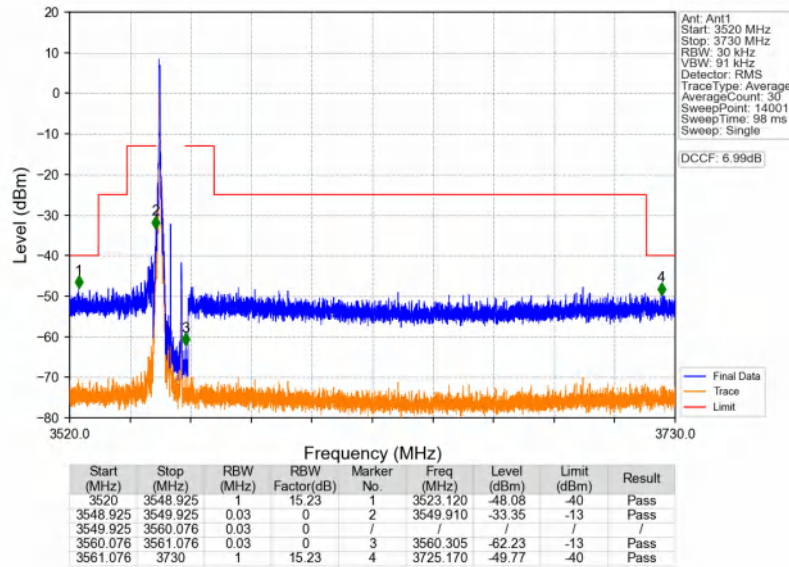


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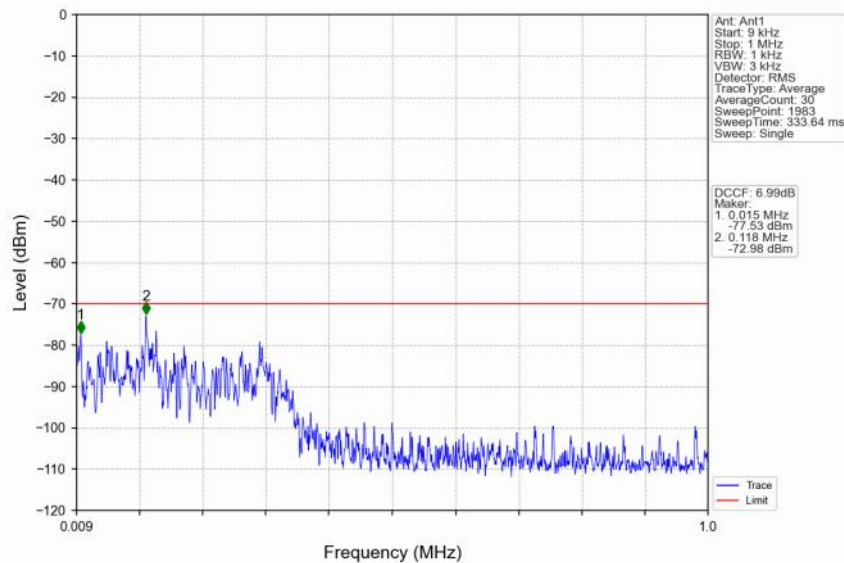
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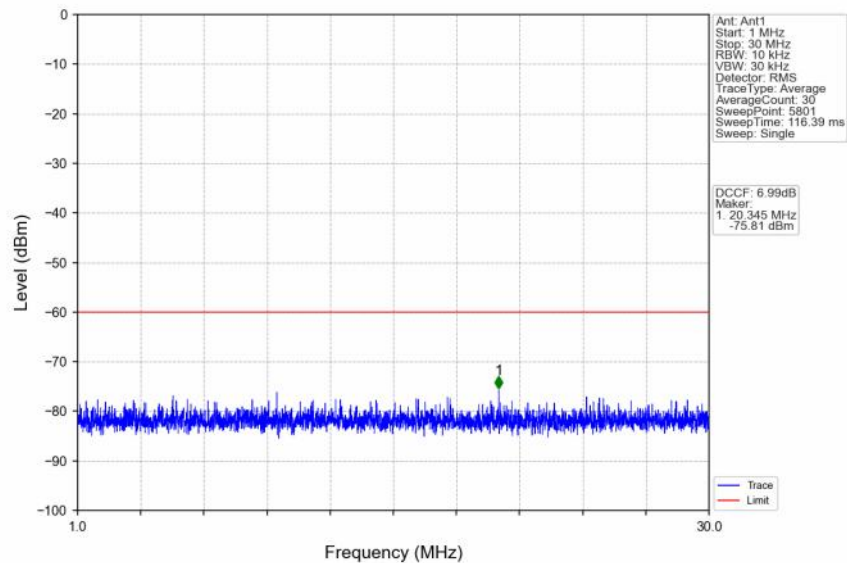


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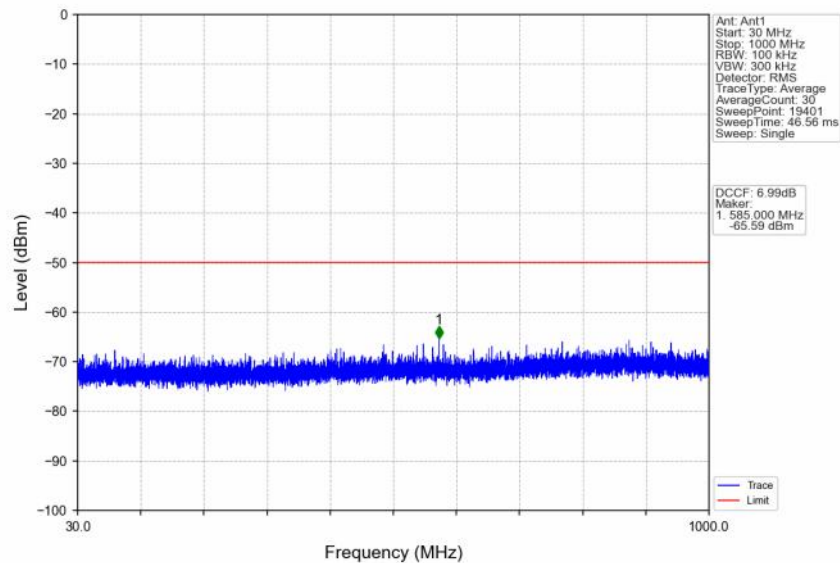
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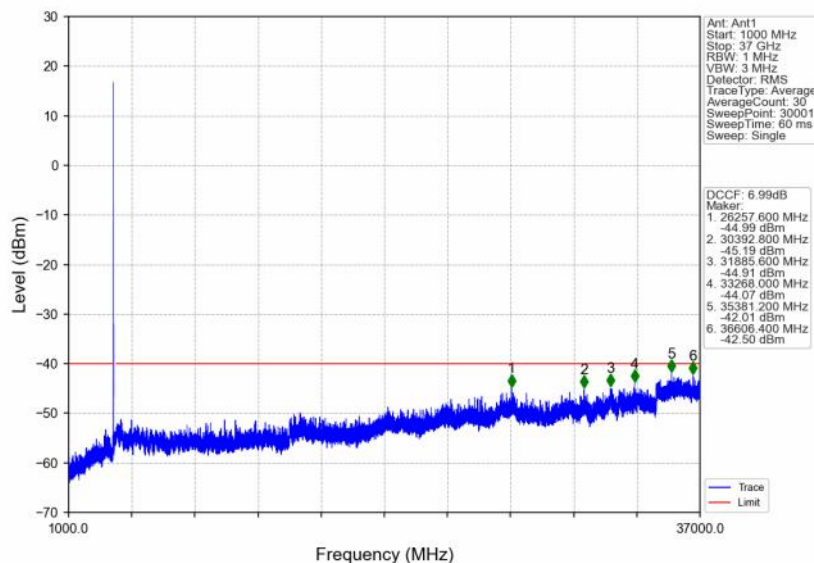


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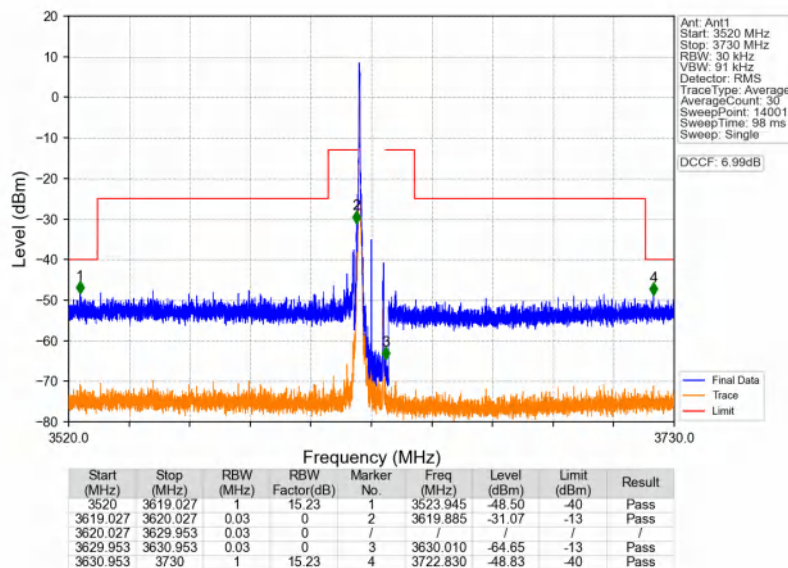
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n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_3624.99MHz_Edge_1RB_Left

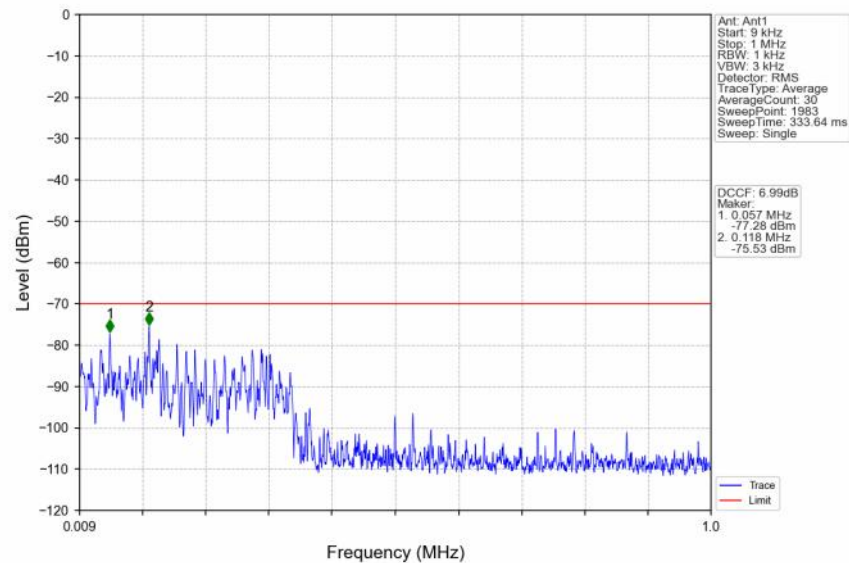


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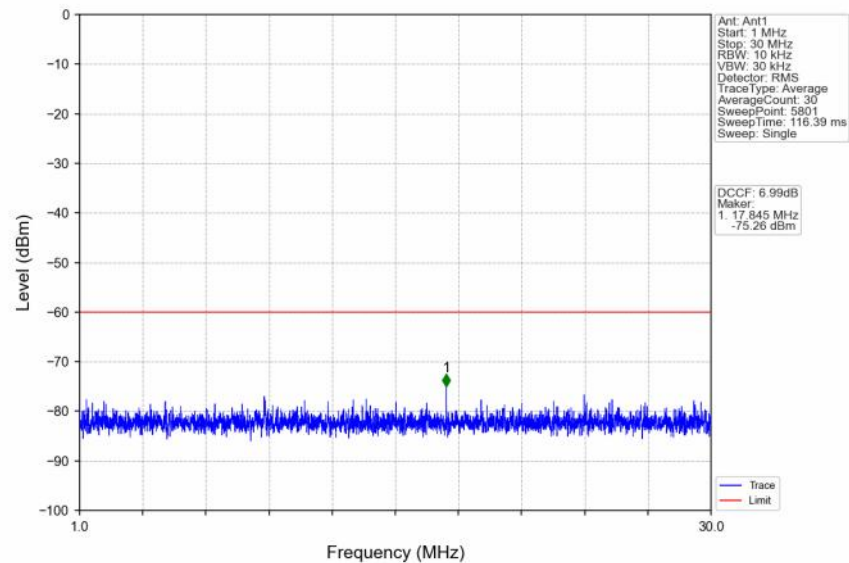
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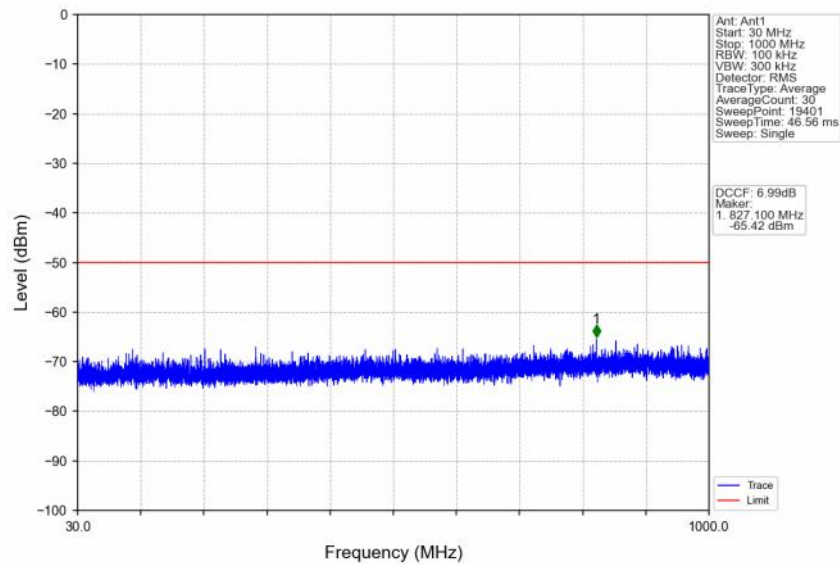


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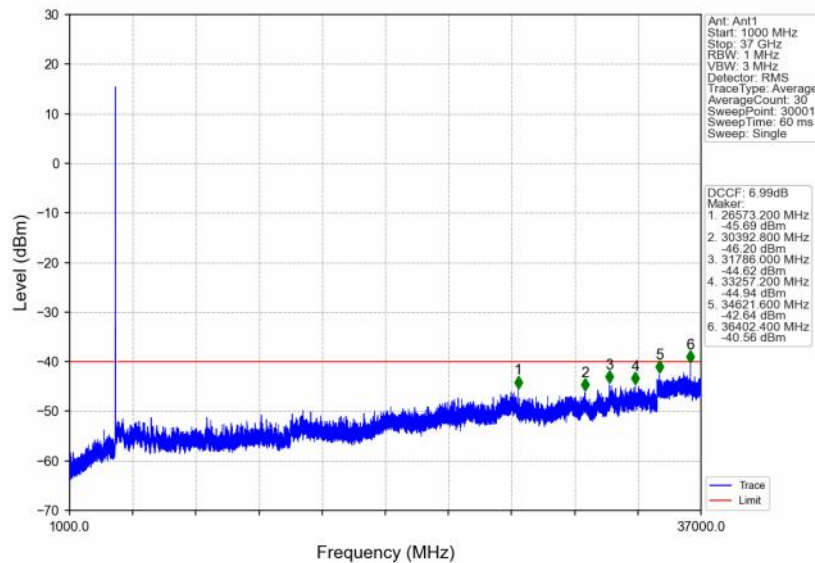
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n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_3624.99MHz_Edge_1RB_Left

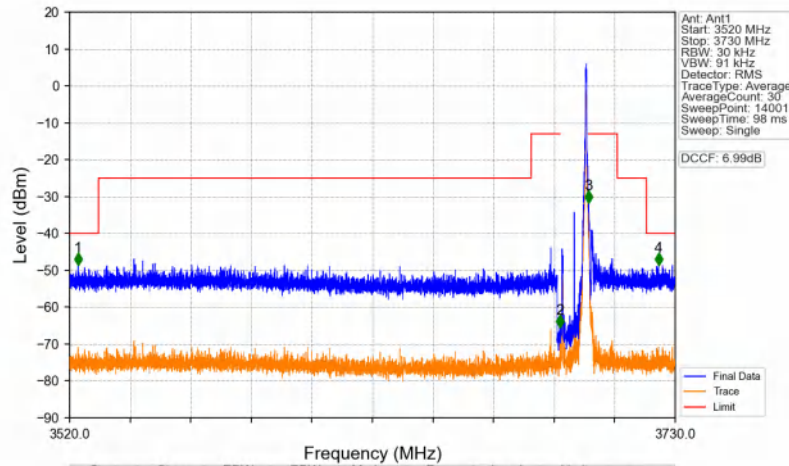


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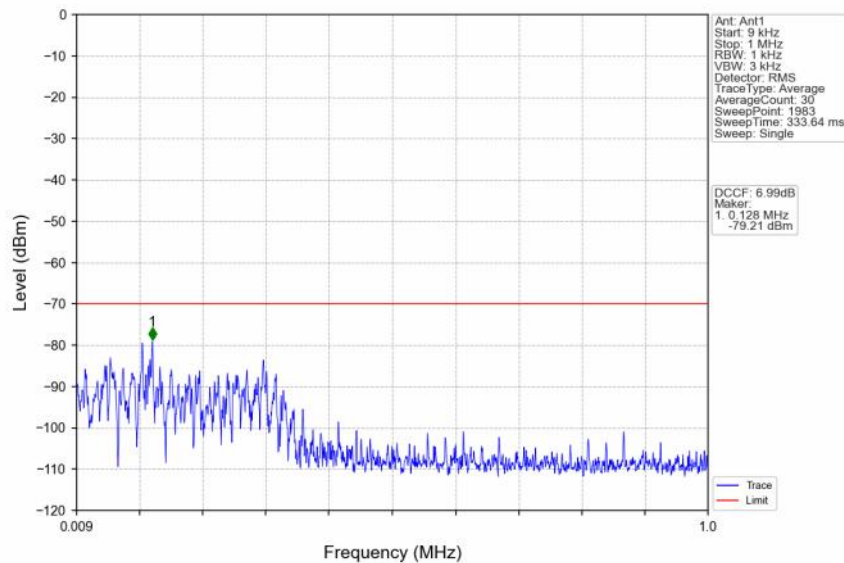
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n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_3694.98MHz_Edge_1RB_Right



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

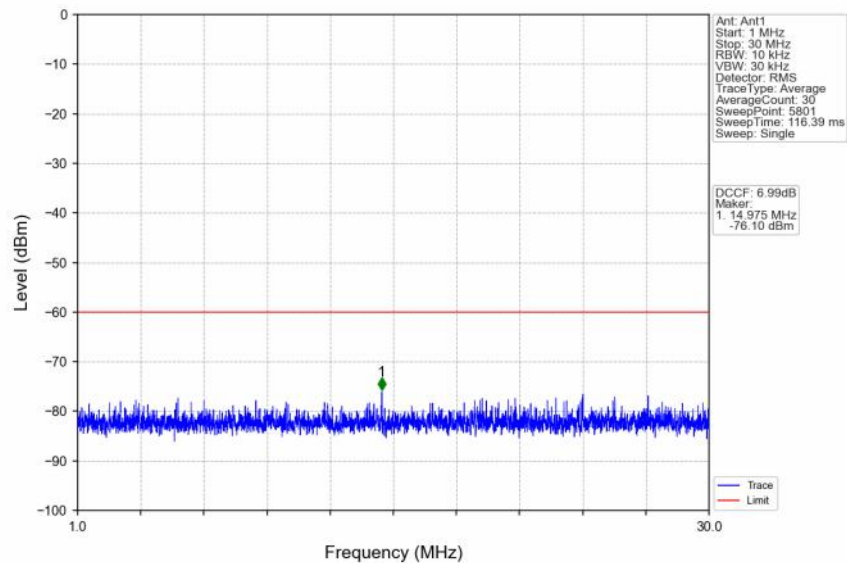


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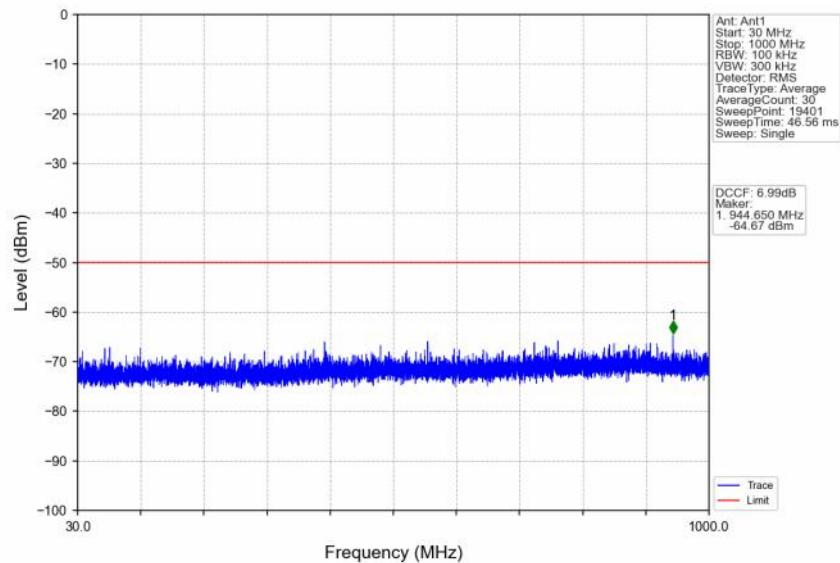
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n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_3694.98MHz_Edge_1RB_Right



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

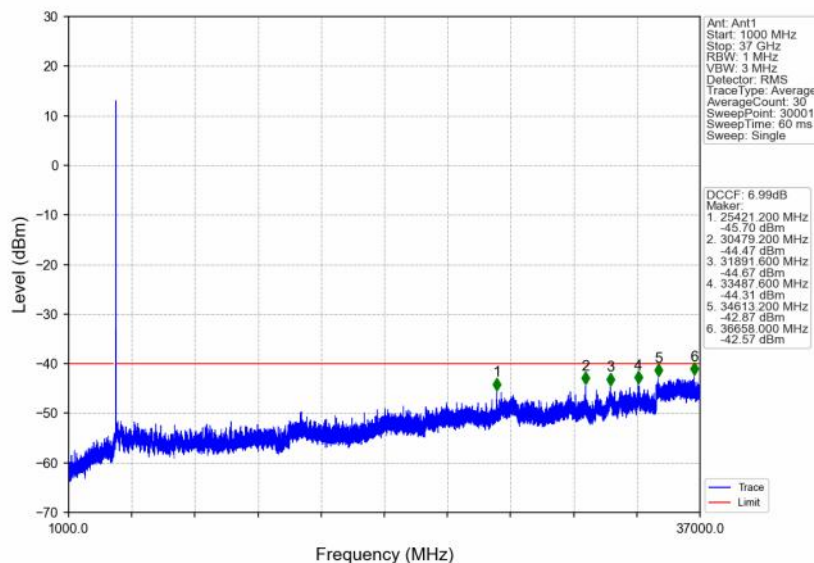


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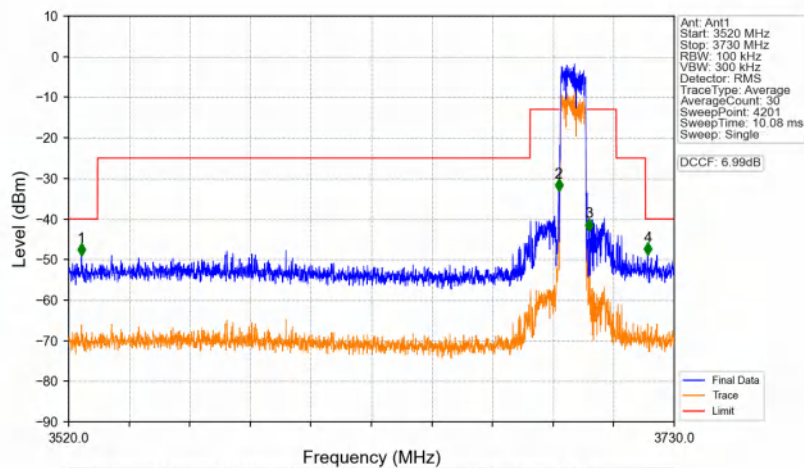
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n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_3694.98MHz_Edge_1RB_Right



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	3689.042	1	10	1	3524.450	-49.10	-40	Pass
3689.042	3690.042	0.1	0	2	3689.950	-33.19	-13	Pass
3690.042	3699.918	0.1	0	3	3700.500	-43.01	-13	Pass
3699.918	3700.918	0.1	0	4	3720.850	-48.87	-40	Pass

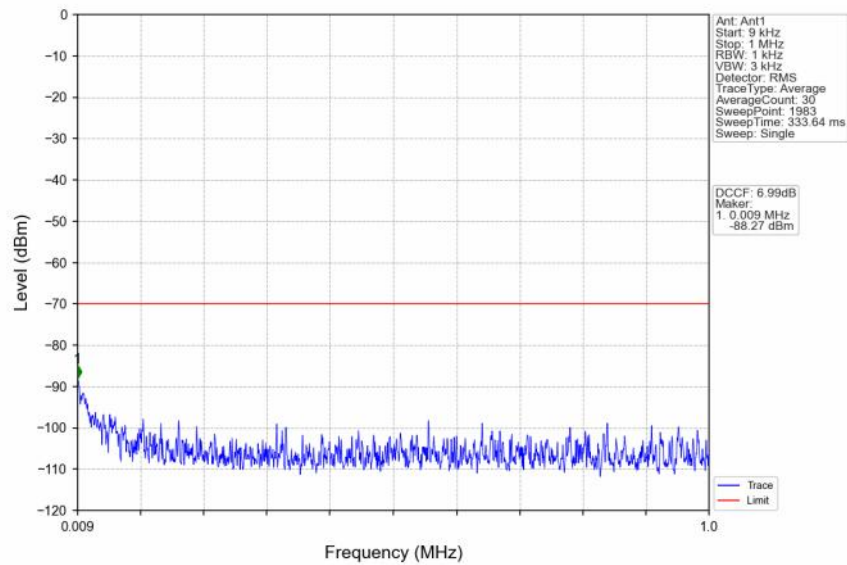


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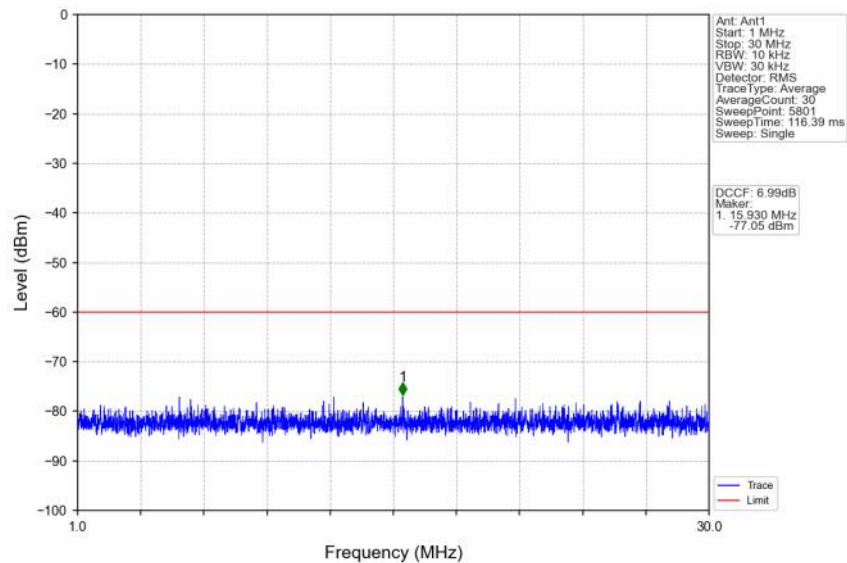
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n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_PI/2_BPSK_3694.98MHz_Outer_Full



n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_PI/2_BPSK_3694.98MHz_Outer_Full

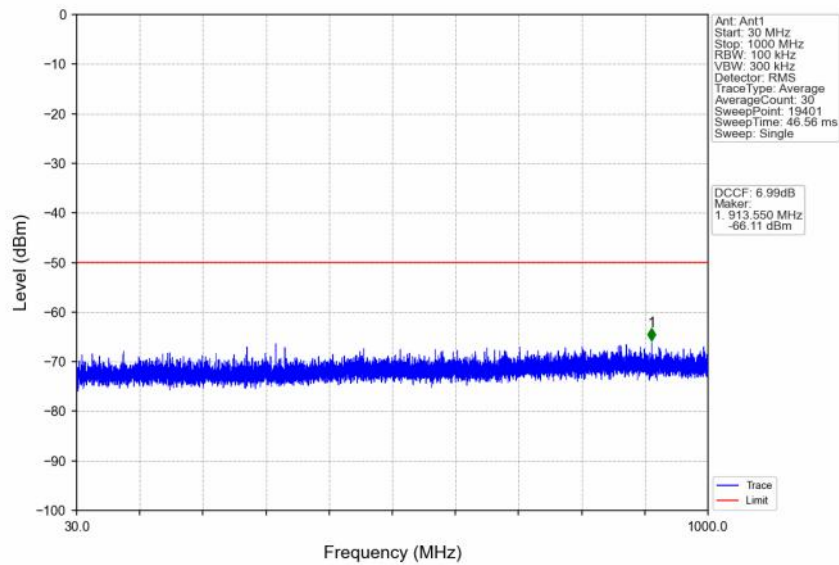


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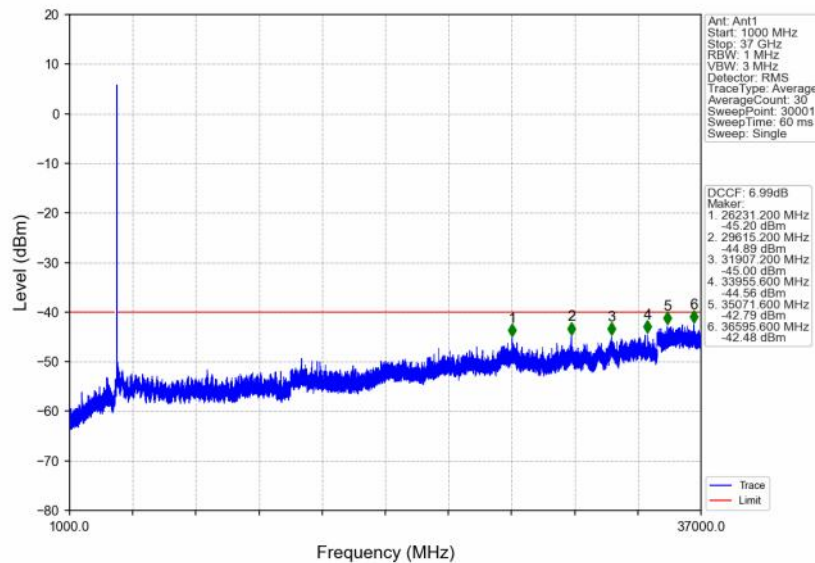
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n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_PI/2_BPSK_3694.98MHz_Outer_Full



n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_PI/2_BPSK_3694.98MHz_Outer_Full

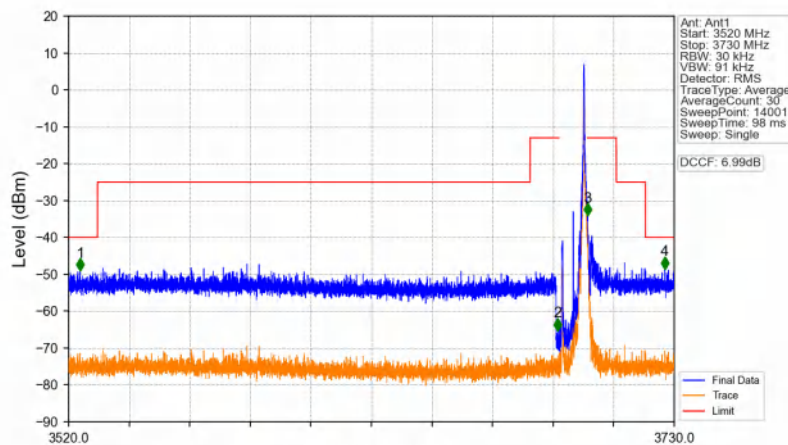


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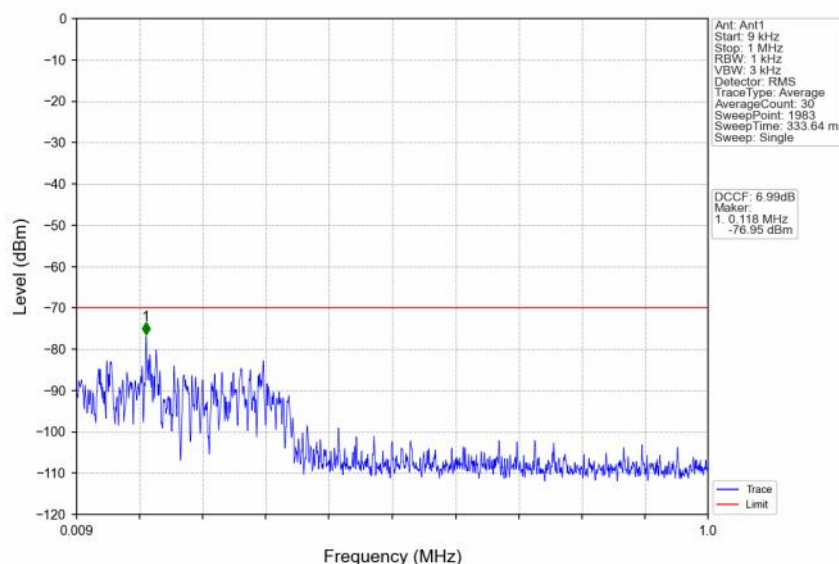
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n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_3694.98MHz_Inner_1RB_Right



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

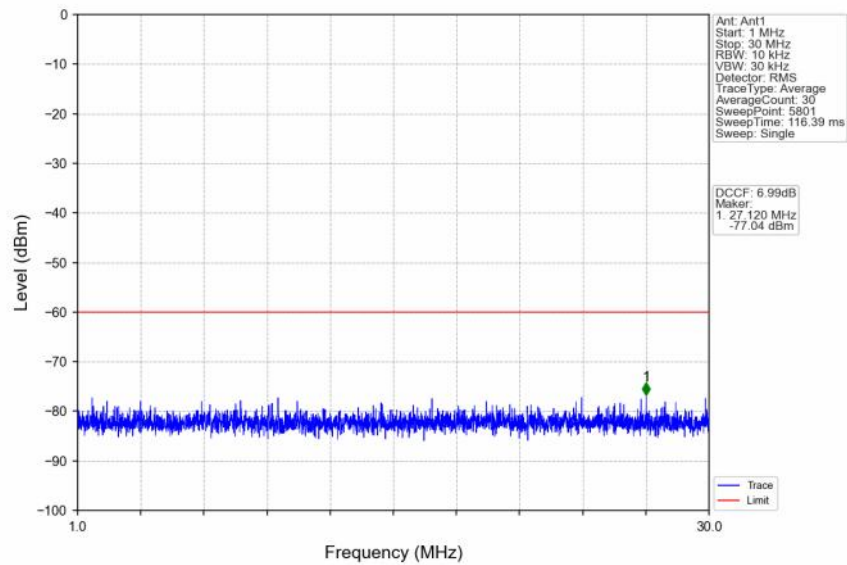


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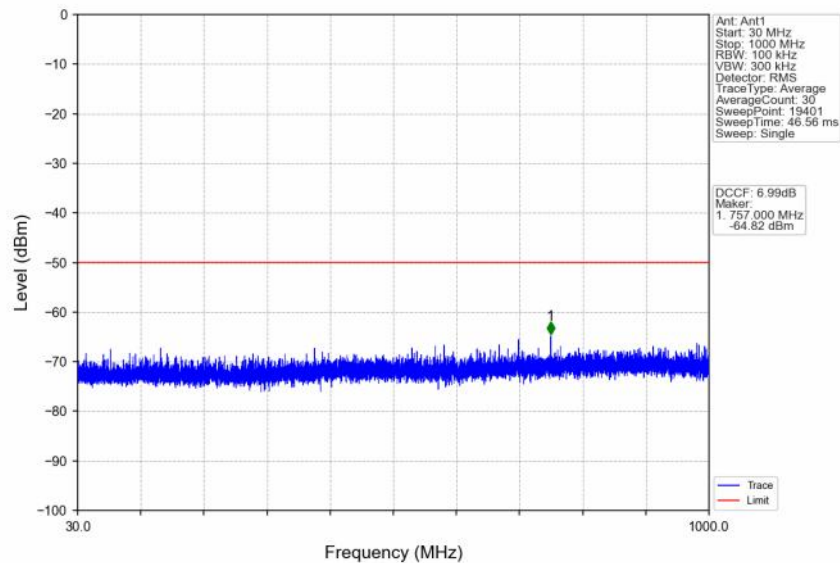
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n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_3694.98MHz_Inner_1RB_Right

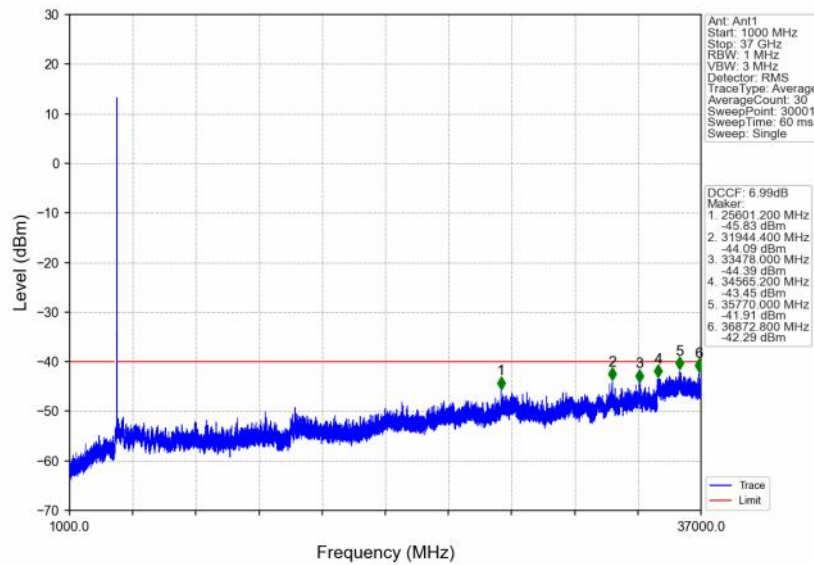


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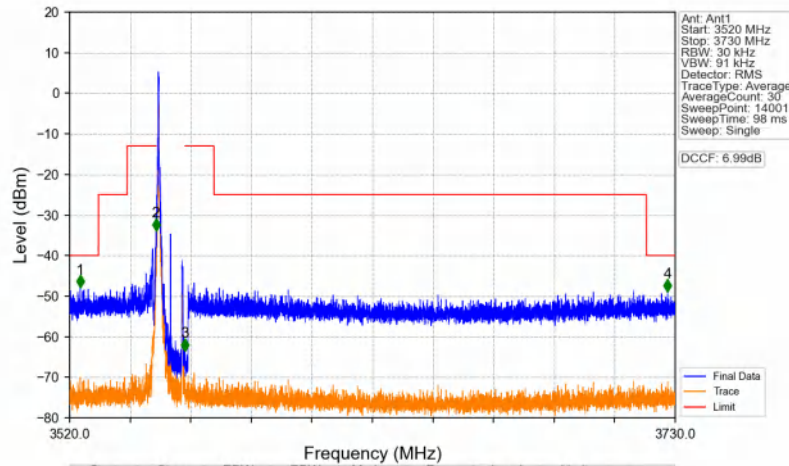
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n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_3555MHz_Edge_1RB_Left



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3520	3548.957	1	15.23	1	3523.675	-47.86	-40	Pass
3548.957	3549.957	0.03	0	2	3549.955	-33.88	-13	Pass
3549.957	3560.044	0.03	0	3	3560.050	-63.54	-13	Pass
3560.044	3561.044	0.03	0	4	3561.044	-63.54	-13	Pass
3561.044	3730	1	15.23	4	3727.375	-48.90	-40	Pass

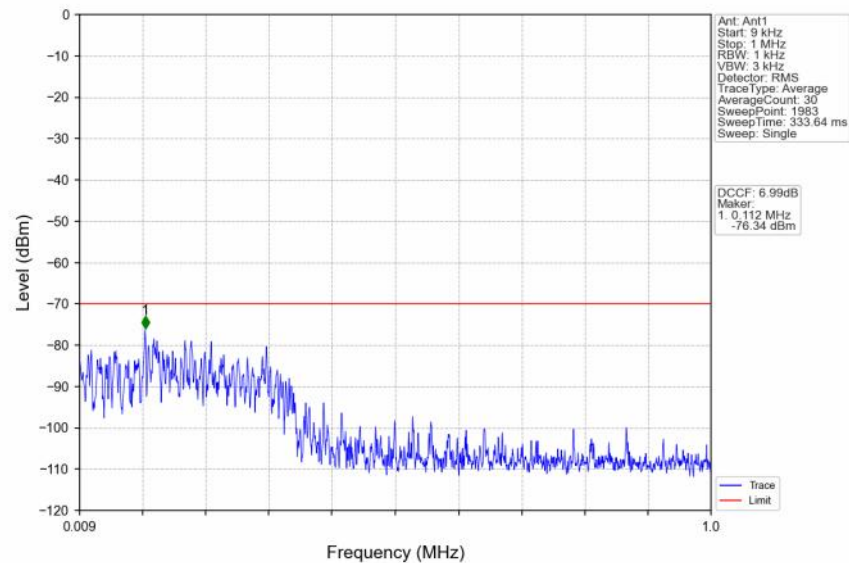


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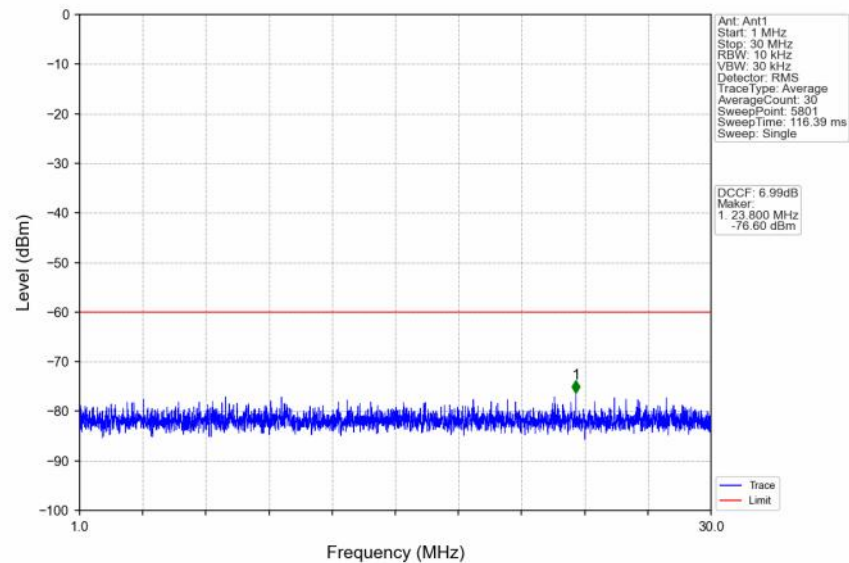
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n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_3555MHz_Edge_1RB_Left

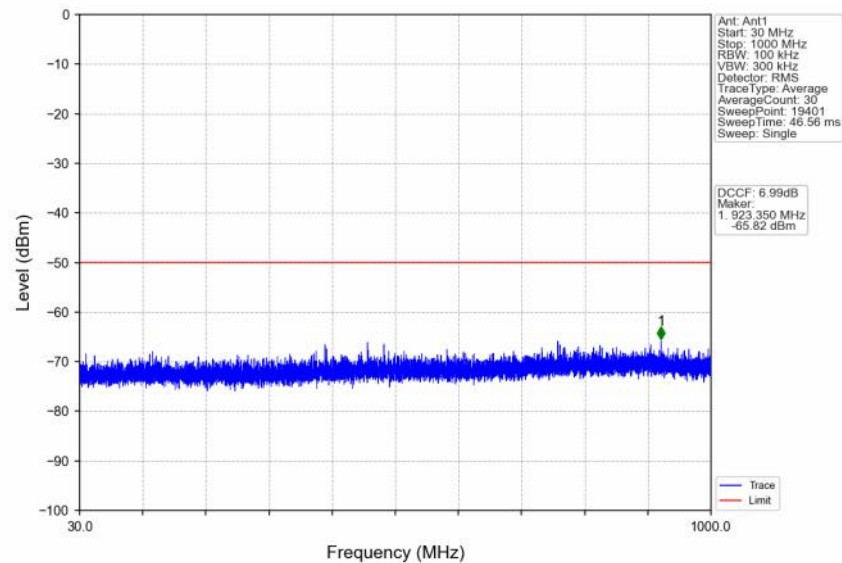


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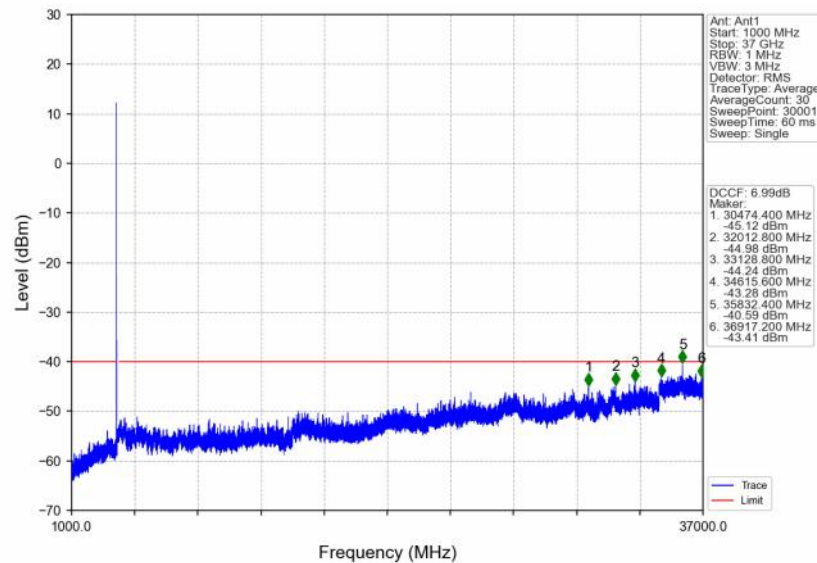
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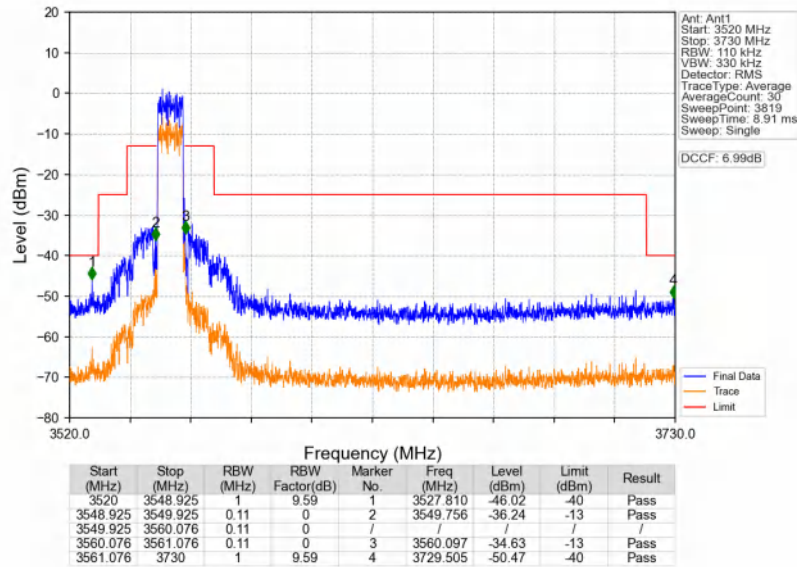


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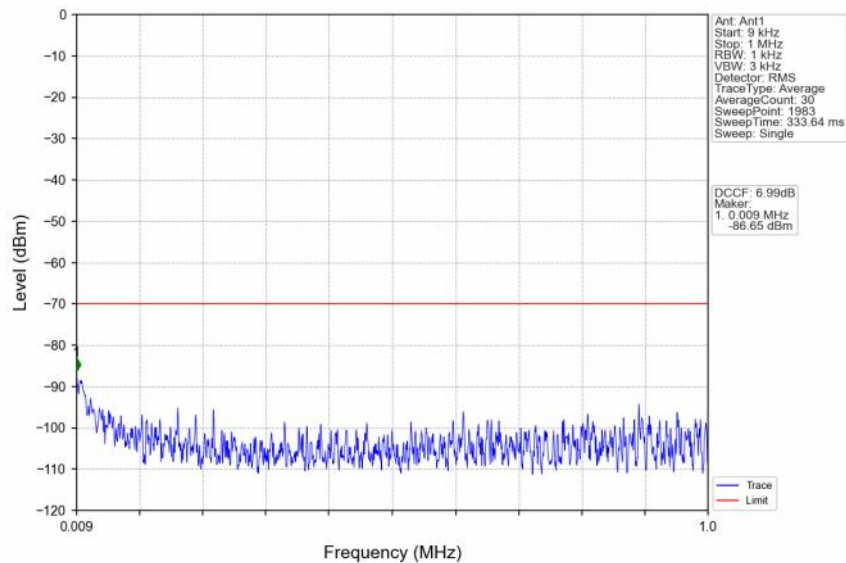
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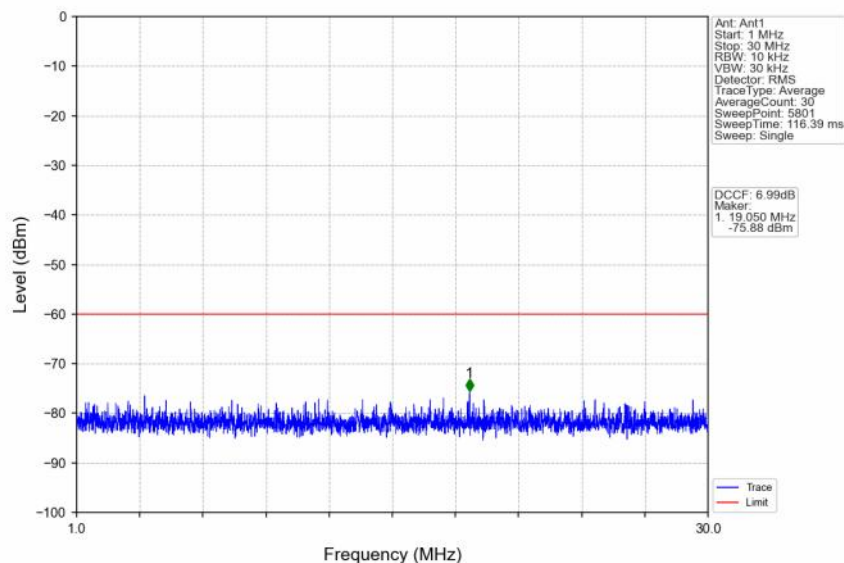


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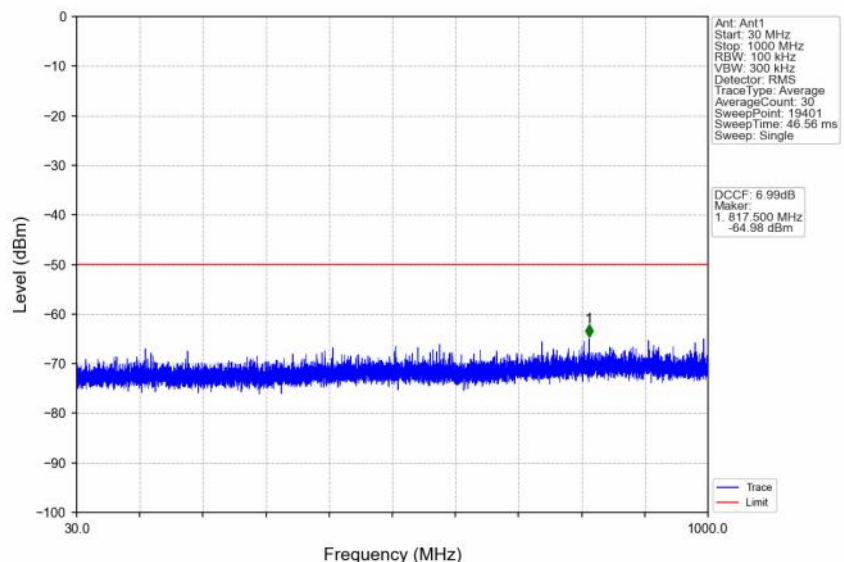
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n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_3555MHz_Outer_Full

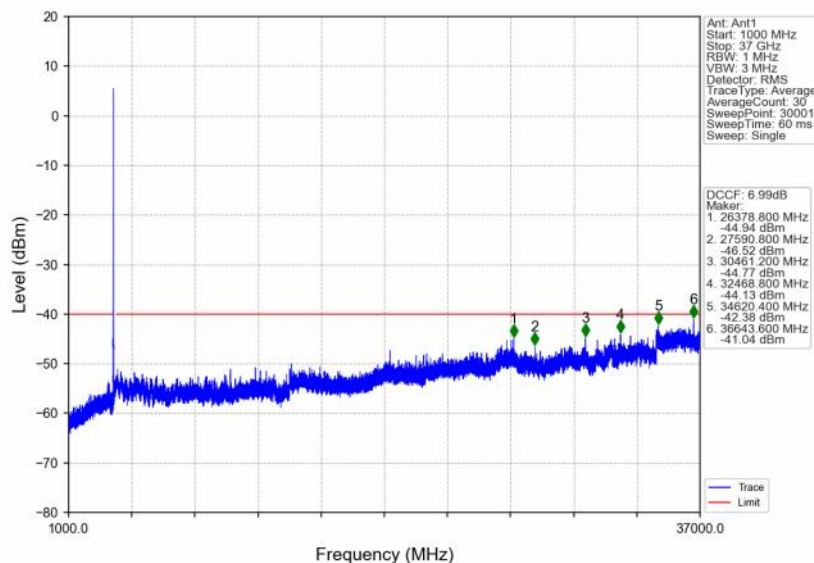


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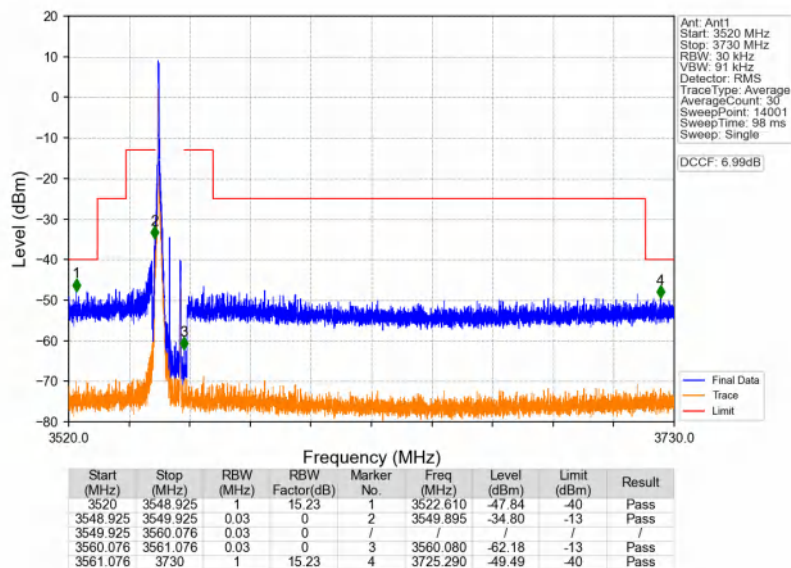
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n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_3555MHz_Outer_Full



n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_3555MHz_Inner_1RB_Left

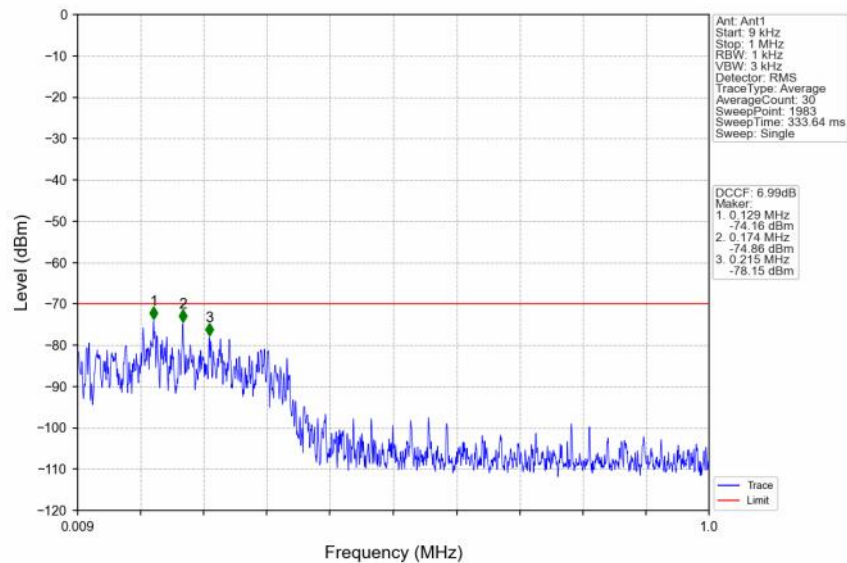


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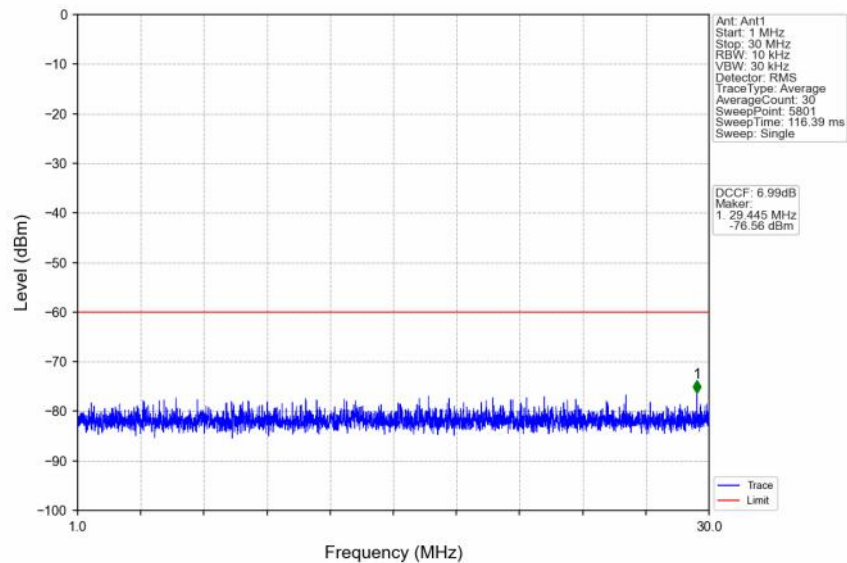
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n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_3555MHz_Inner_1RB_Left



n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_3555MHz_Inner_1RB_Left

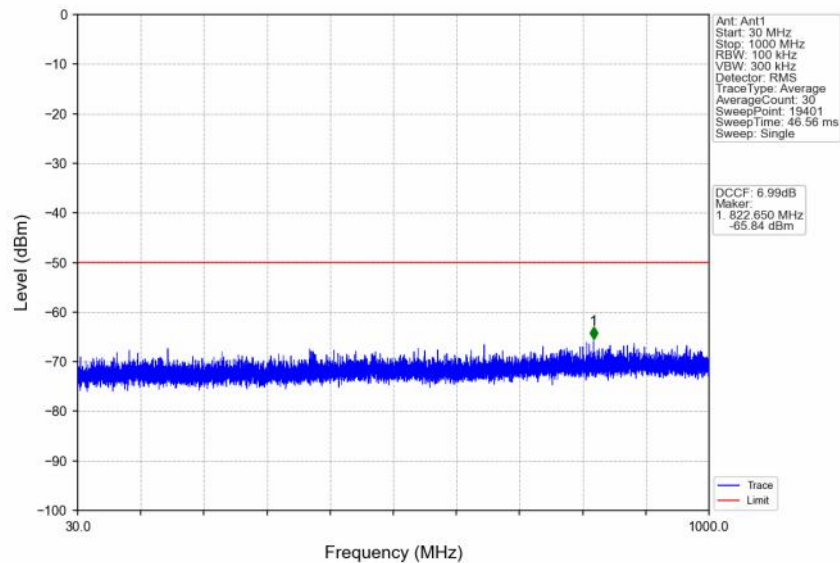


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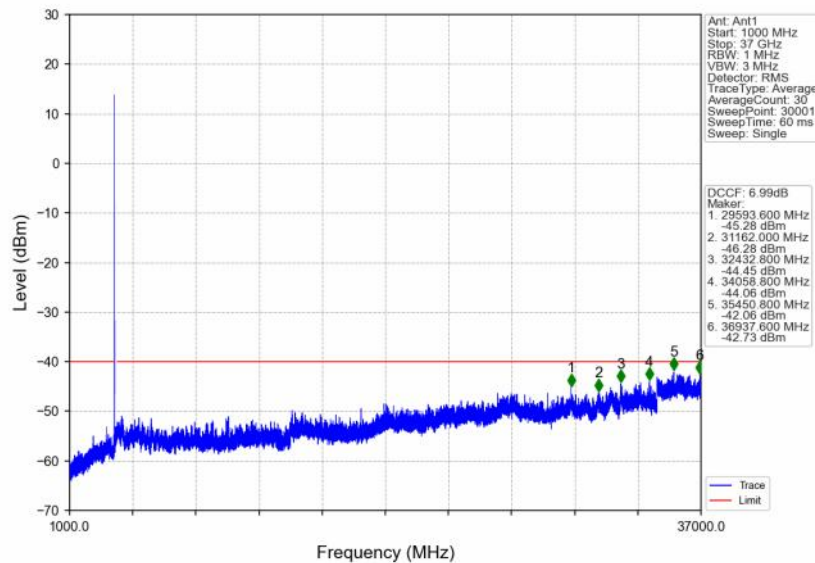
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n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_3555MHz_Inner_1RB_Left



n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_3555MHz_Inner_1RB_Left

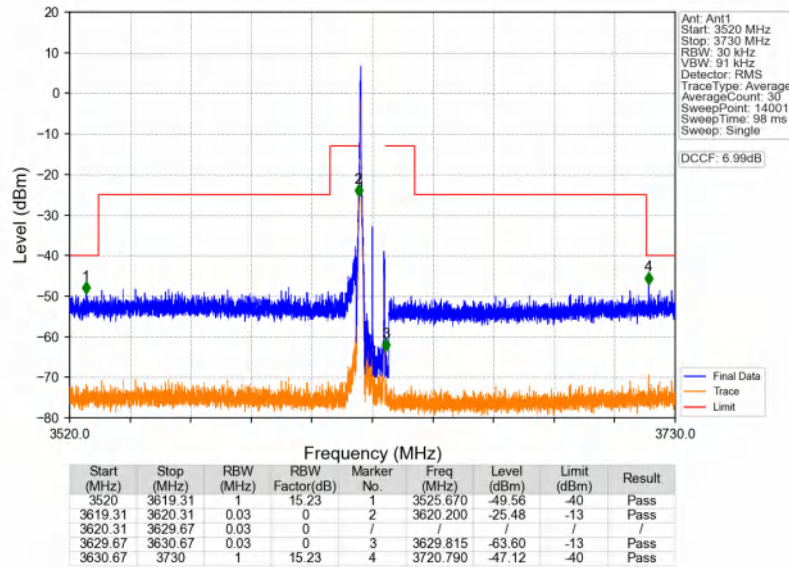


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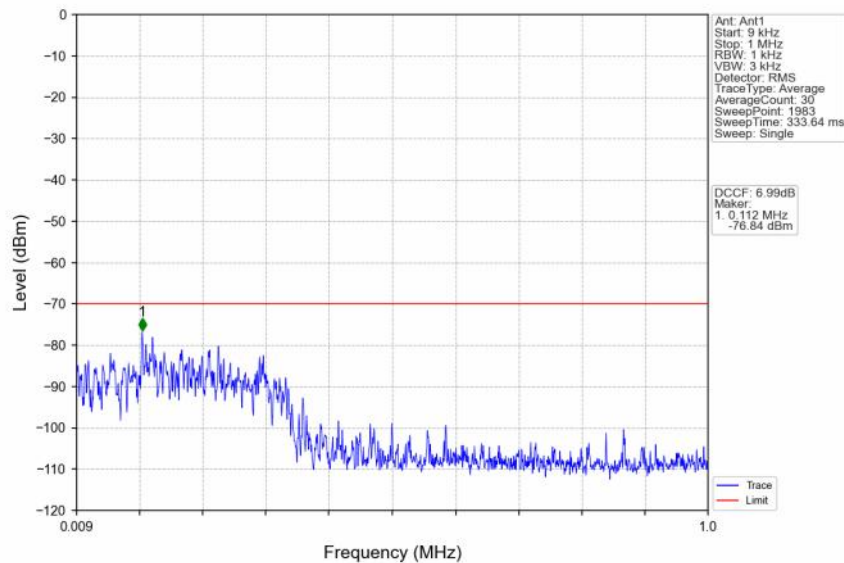
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n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_3624.99MHz_Edge_1RB_Left



n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_3624.99MHz_Edge_1RB_Left

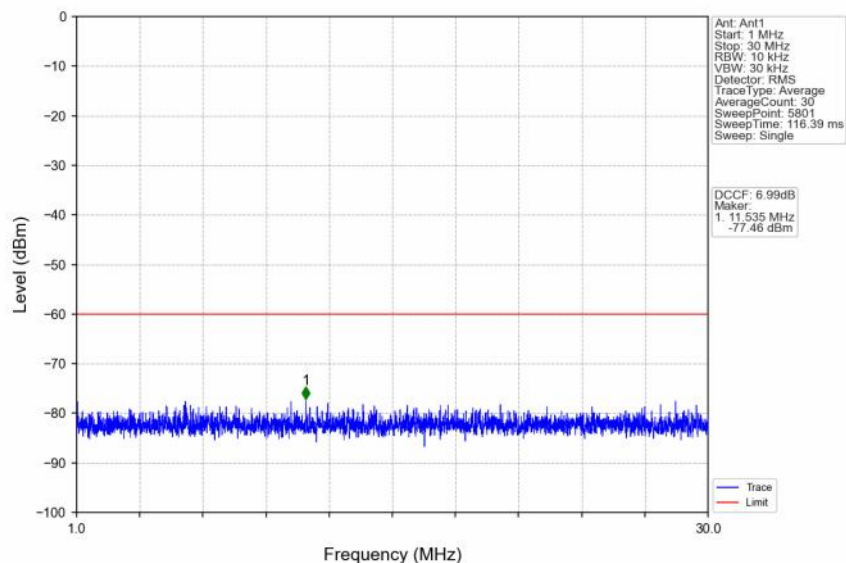


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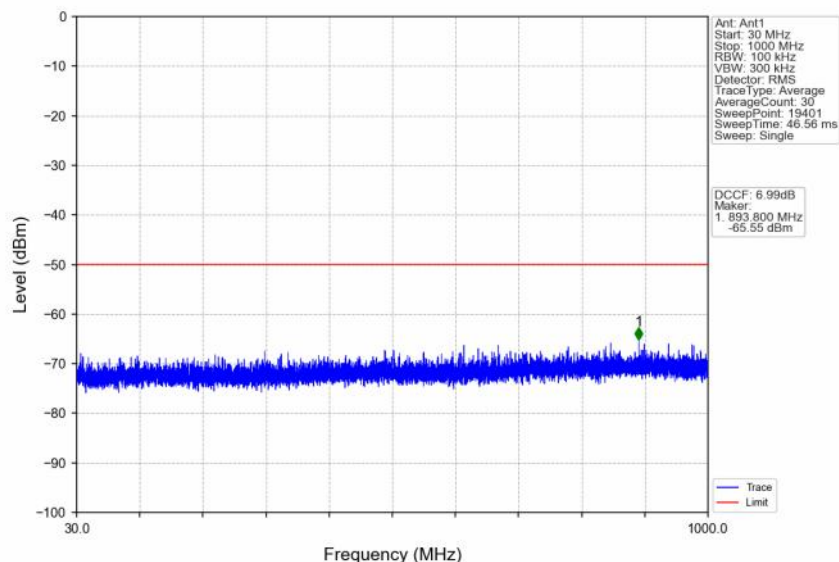
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n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_3624.99MHz_Edge_1RB_Left



n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_3624.99MHz_Edge_1RB_Left



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