



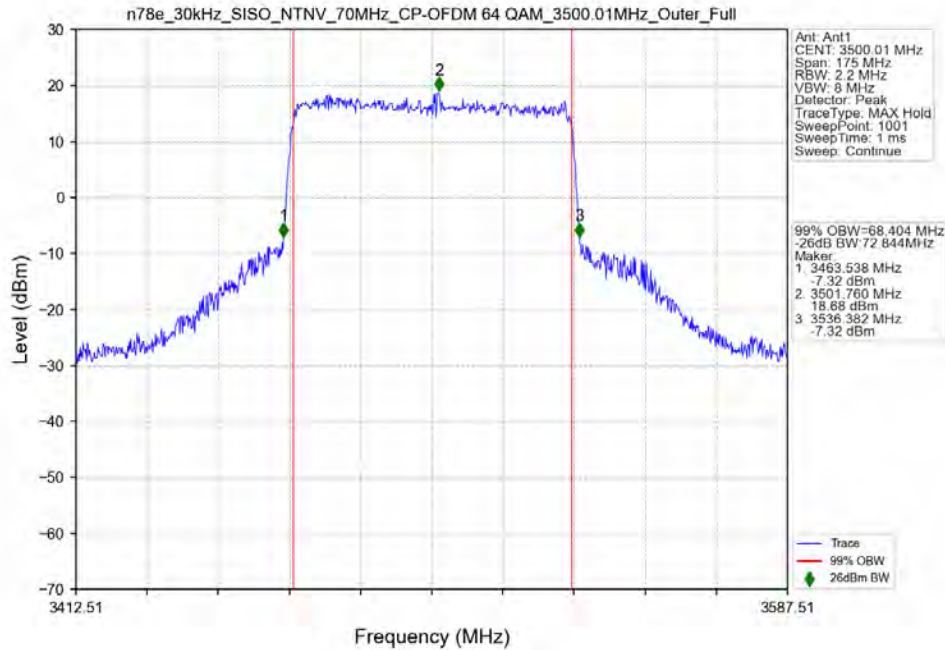
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n78e_30kHz_SISO_NTNV_70MHz_CP-OFDM 64 QAM_3500.01MHz_Outer_Full



n78e_30kHz_SISO_NTNV_70MHz_CP-OFDM 64 QAM_3514.98MHz_Outer_Full



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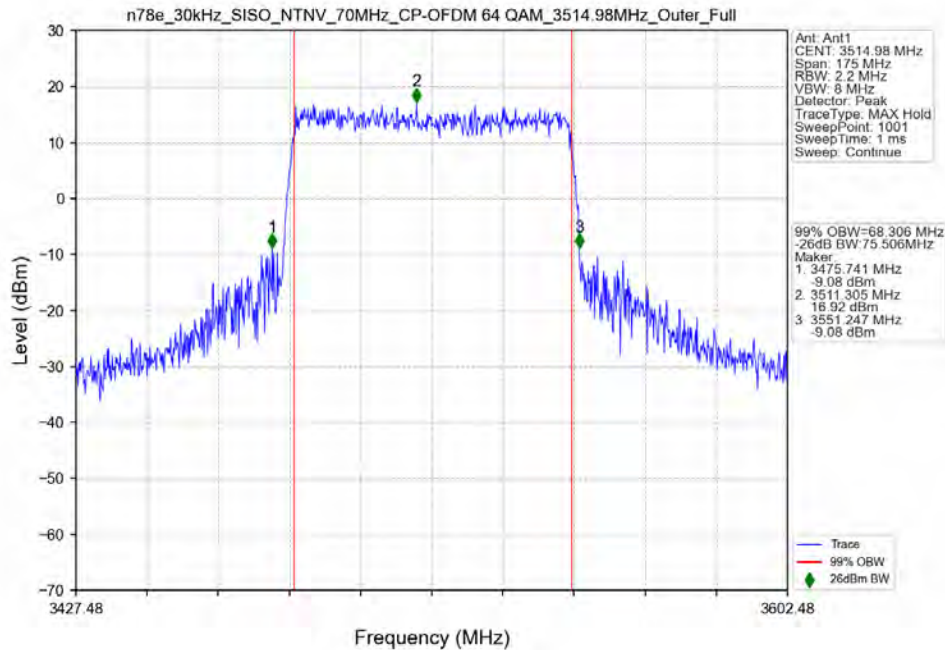


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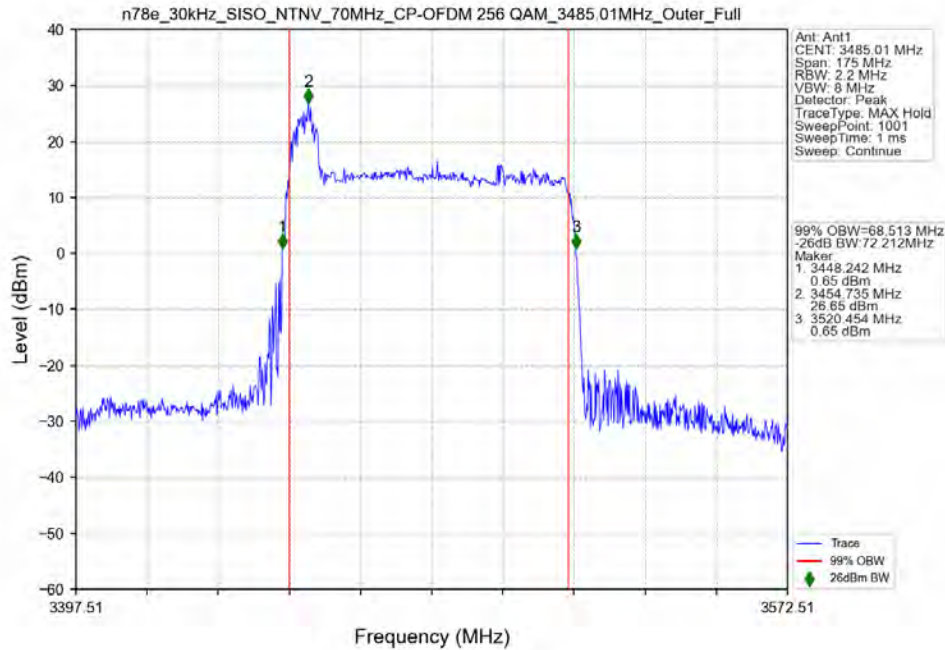
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n78e_30kHz_SISO_NTNV_70MHz_CP-OFDM_256_QAM_3485.01MHz_Outer_Full



n78e_30kHz_SISO_NTNV_70MHz_CP-OFDM_256_QAM_3500.01MHz_Outer_Full



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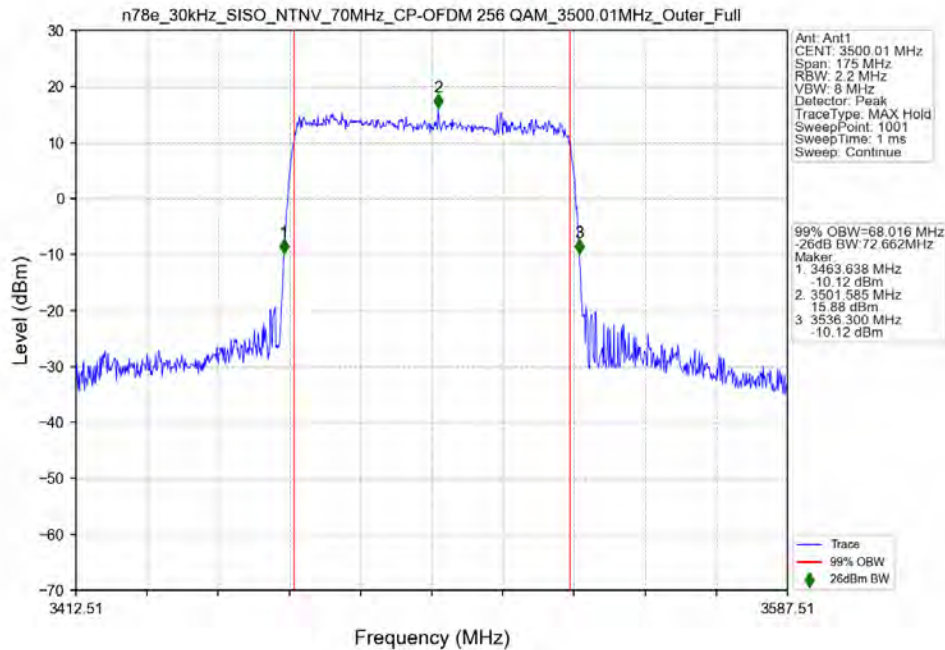


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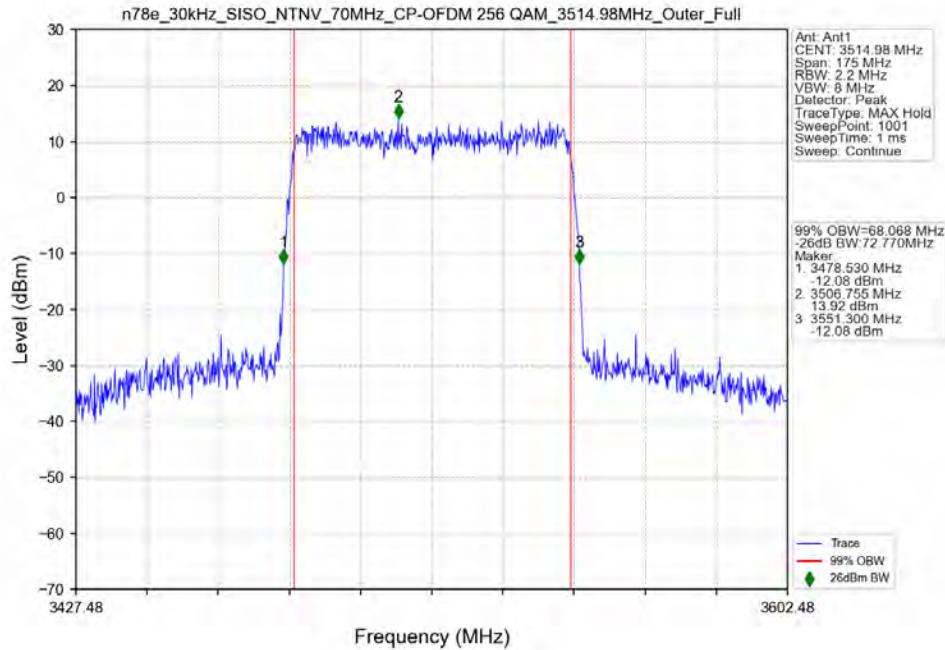
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3.7 30k_SISO_80MHz_NTNV

3.7.1 Test Result

5G NR n78e SCS=30kHz SISO 80MHz NNTV						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3490.02	Outer Full	78.46	82.75	/	Pass
	3500.01	Outer Full	77.63	82.23	/	Pass
	3510	Outer Full	78.11	82.92	/	Pass
DFT-s-OFDM QPSK	3490.02	Outer Full	77.70	82.87	/	Pass
	3500.01	Outer Full	77.62	82.93	/	Pass
	3510	Outer Full	77.73	82.90	/	Pass
DFT-s-OFDM 16 QAM	3490.02	Outer Full	77.76	82.95	/	Pass
	3500.01	Outer Full	77.79	82.20	/	Pass
	3510	Outer Full	77.97	82.85	/	Pass
DFT-s-OFDM 64 QAM	3490.02	Outer Full	77.53	82.83	/	Pass
	3500.01	Outer Full	77.62	82.90	/	Pass
	3510	Outer Full	77.88	82.88	/	Pass
DFT-s-OFDM 256 QAM	3490.02	Outer Full	77.50	82.89	/	Pass
	3500.01	Outer Full	77.44	82.16	/	Pass
	3510	Outer Full	77.52	82.82	/	Pass
CP-OFDM QPSK	3490.02	Outer Full	78.40	82.85	/	Pass
	3500.01	Outer Full	78.05	83.11	/	Pass
	3510	Outer Full	78.15	83.39	/	Pass
CP-OFDM 16 QAM	3490.02	Outer Full	77.86	83.28	/	Pass
	3500.01	Outer Full	77.96	82.98	/	Pass
	3510	Outer Full	77.83	82.52	/	Pass
CP-OFDM 64 QAM	3490.02	Outer Full	77.93	83.45	/	Pass
	3500.01	Outer Full	77.86	82.87	/	Pass
	3510	Outer Full	78.25	83.37	/	Pass
CP-OFDM 256 QAM	3490.02	Outer Full	77.69	83.20	/	Pass
	3500.01	Outer Full	78.14	83.14	/	Pass
	3510	Outer Full	78.62	82.98	/	Pass



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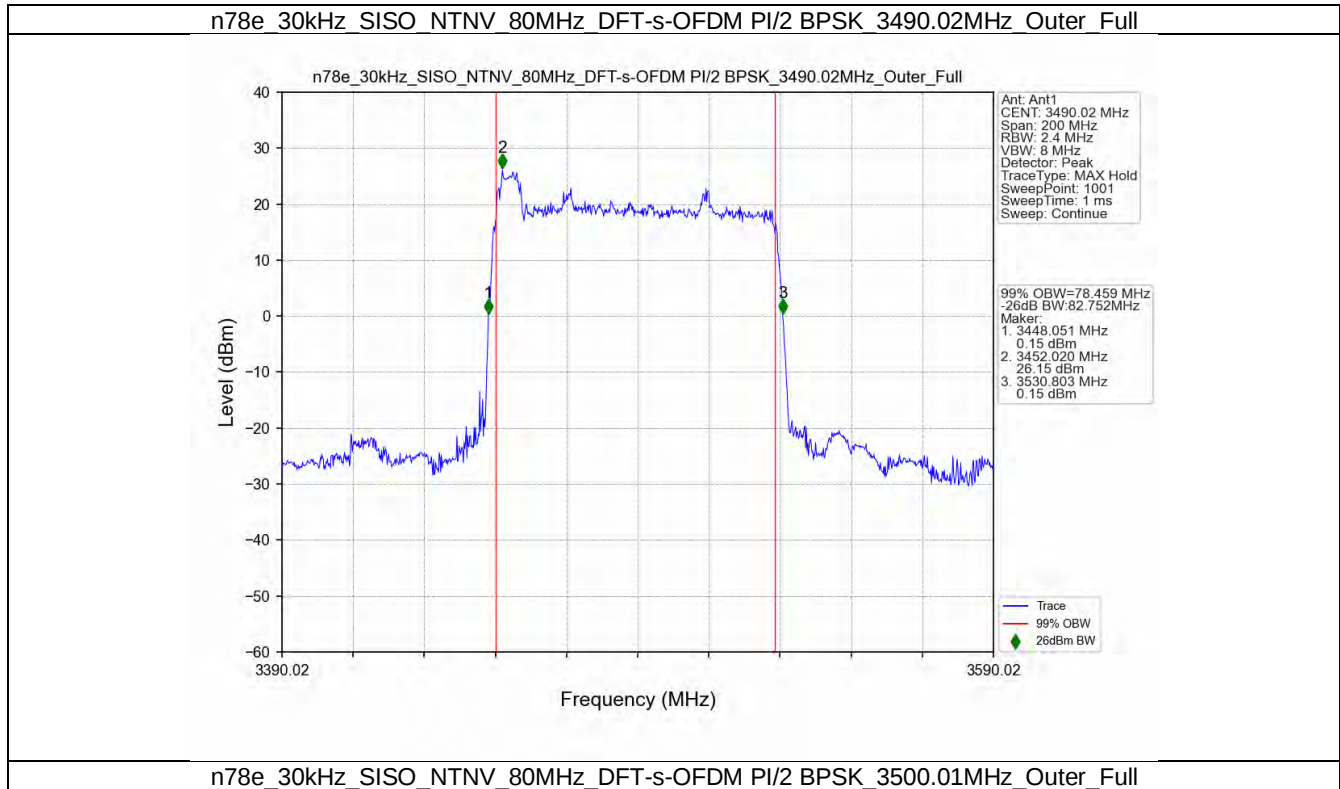
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3.7.2 Test Graph



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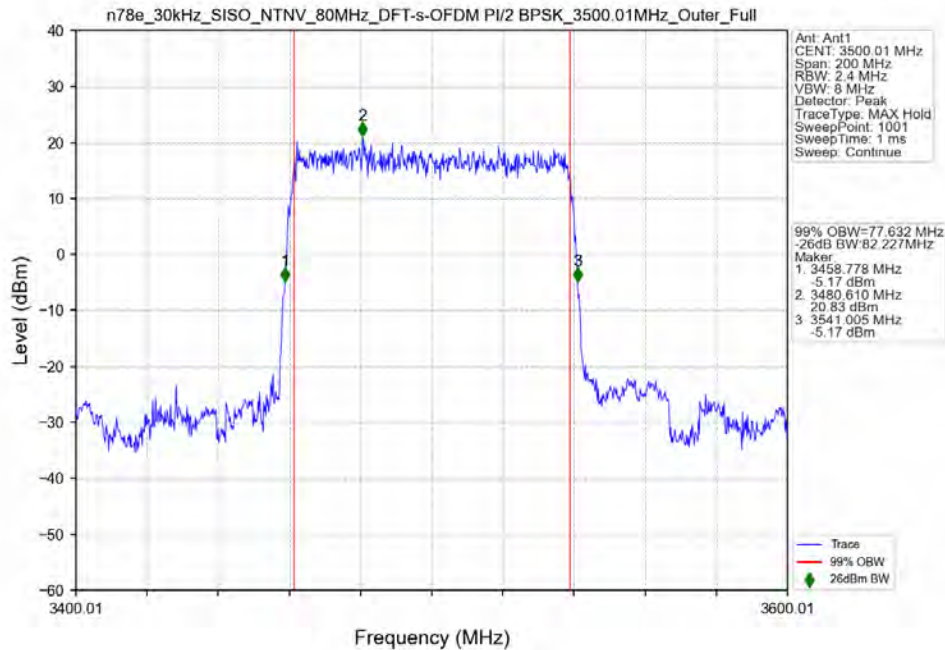


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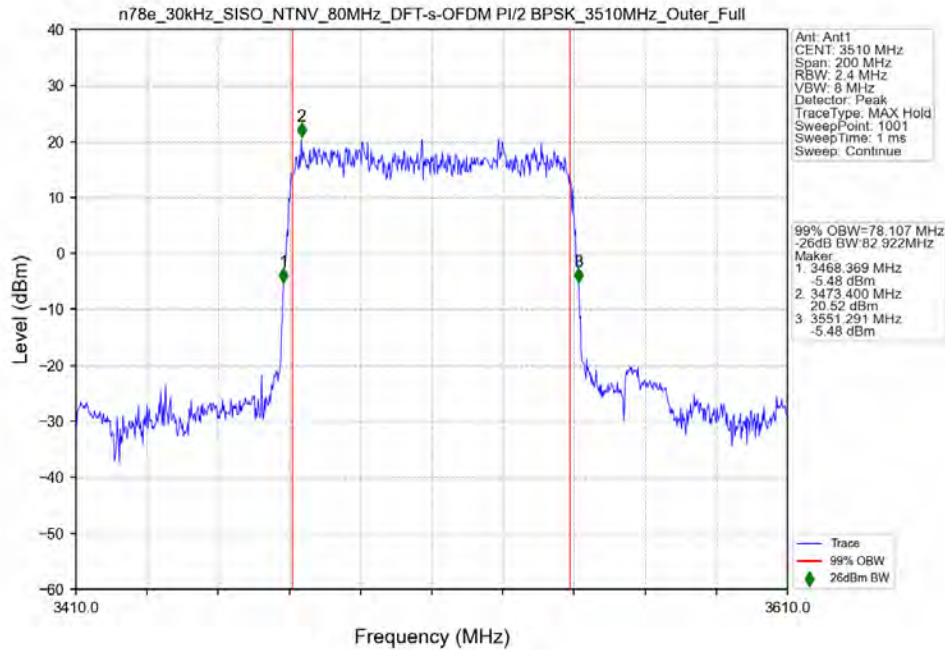
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n78e_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM PI/2 BPSK_3510MHz_Outer_Full



n78e_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM QPSK_3490.02MHz_Outer_Full



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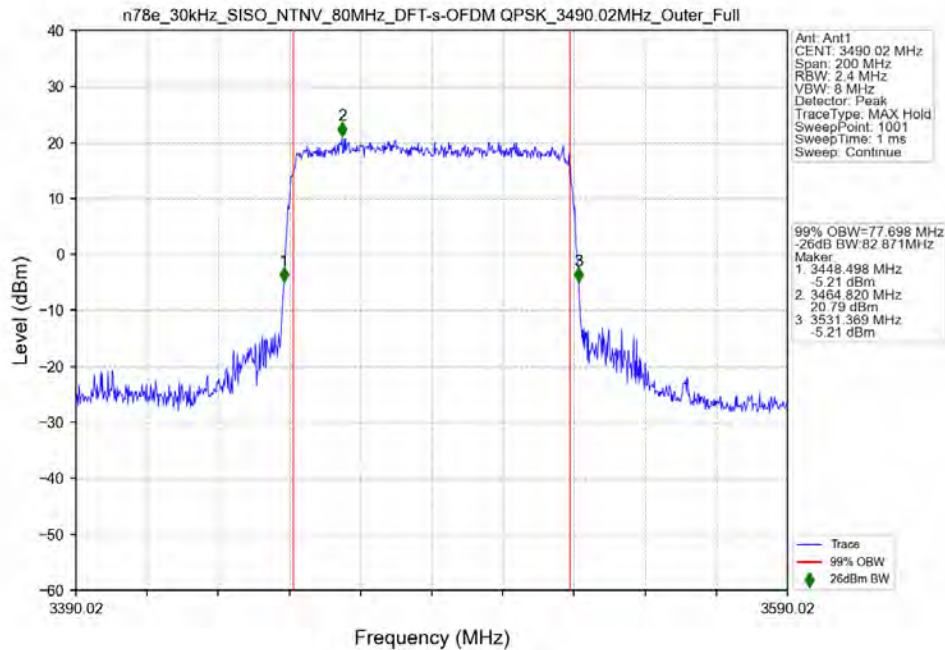


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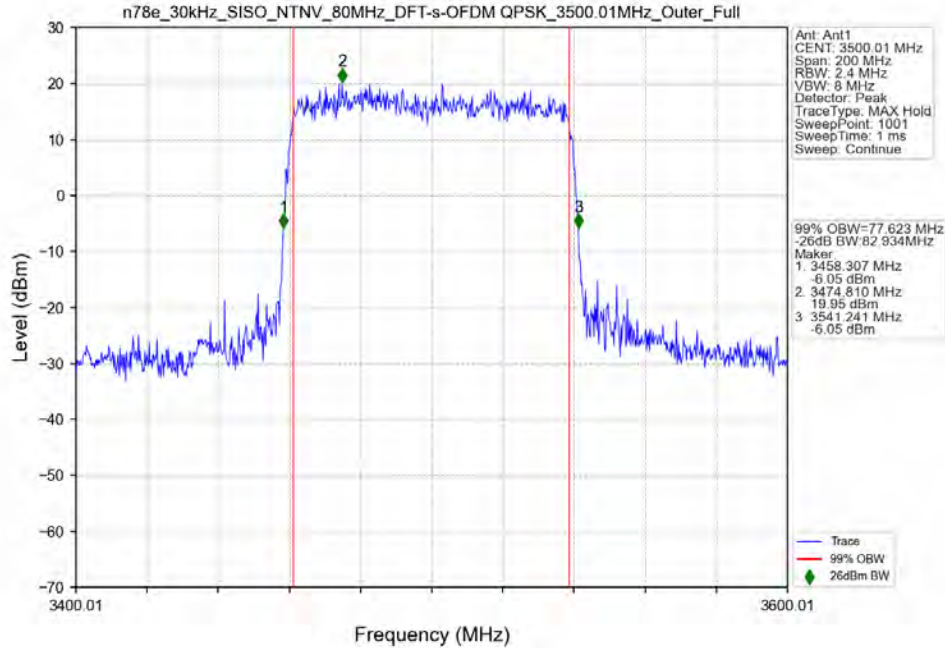
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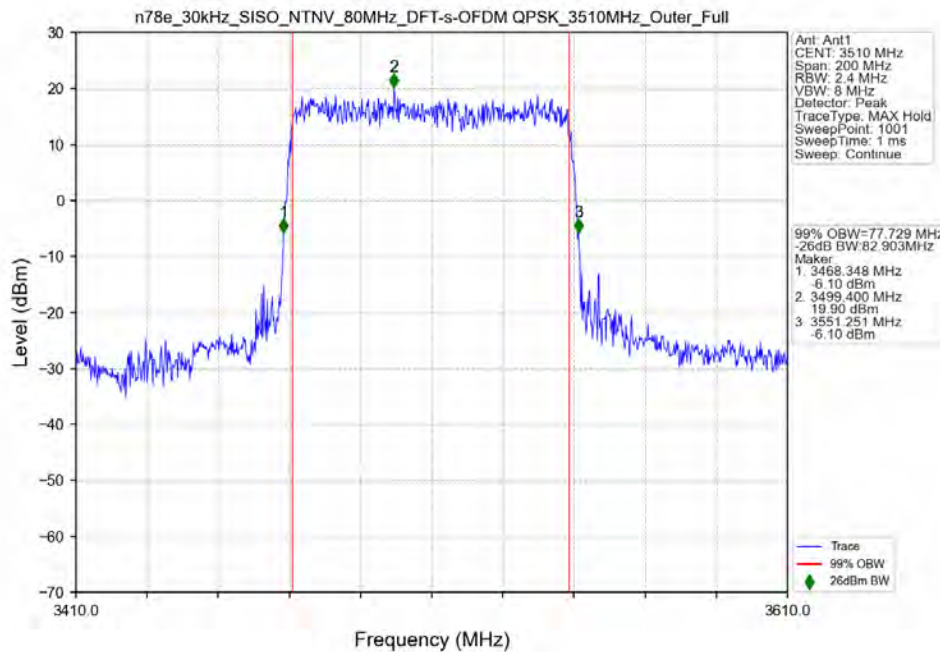


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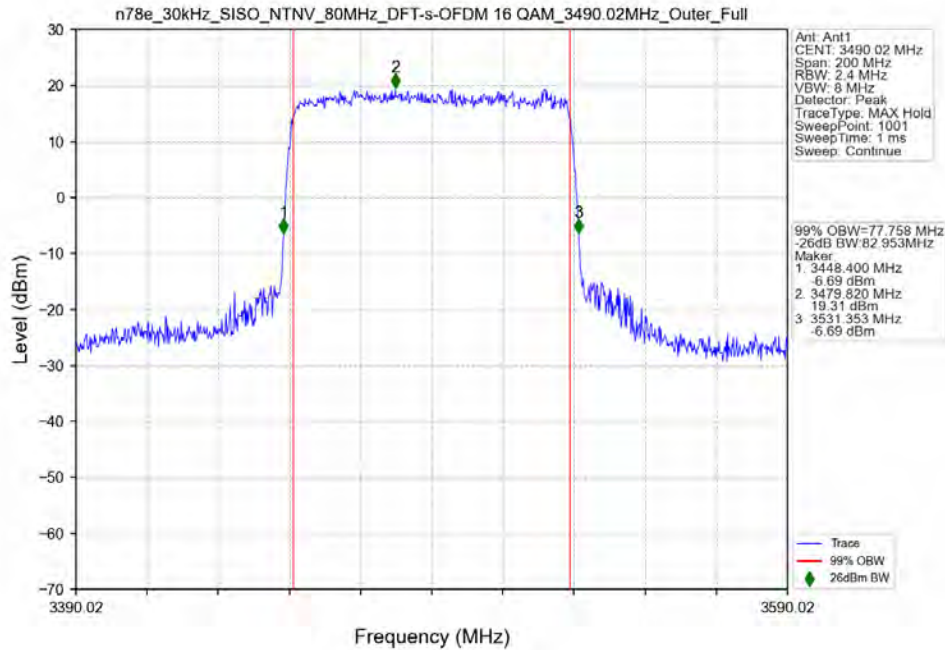
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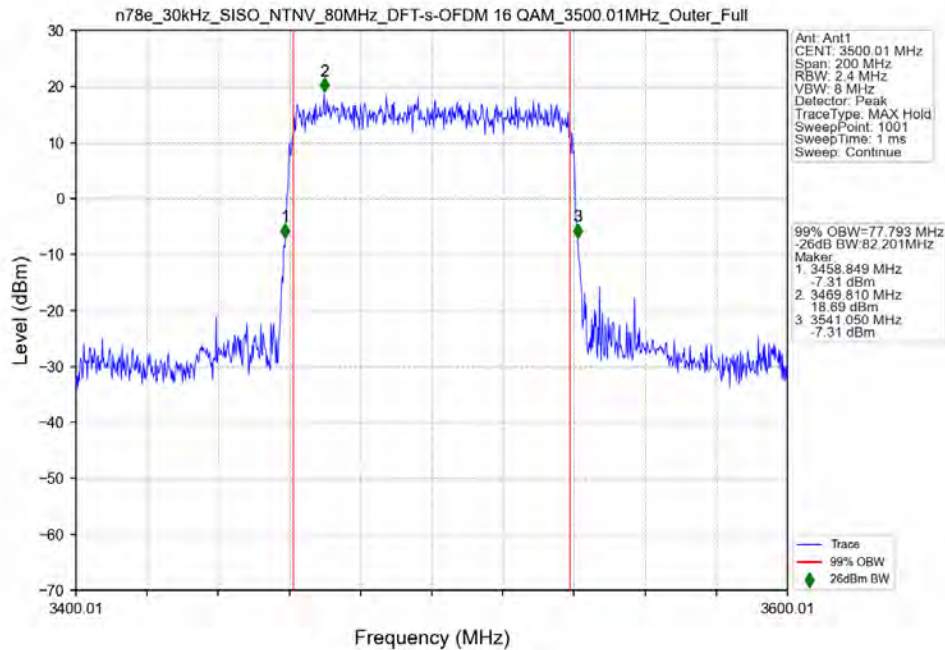


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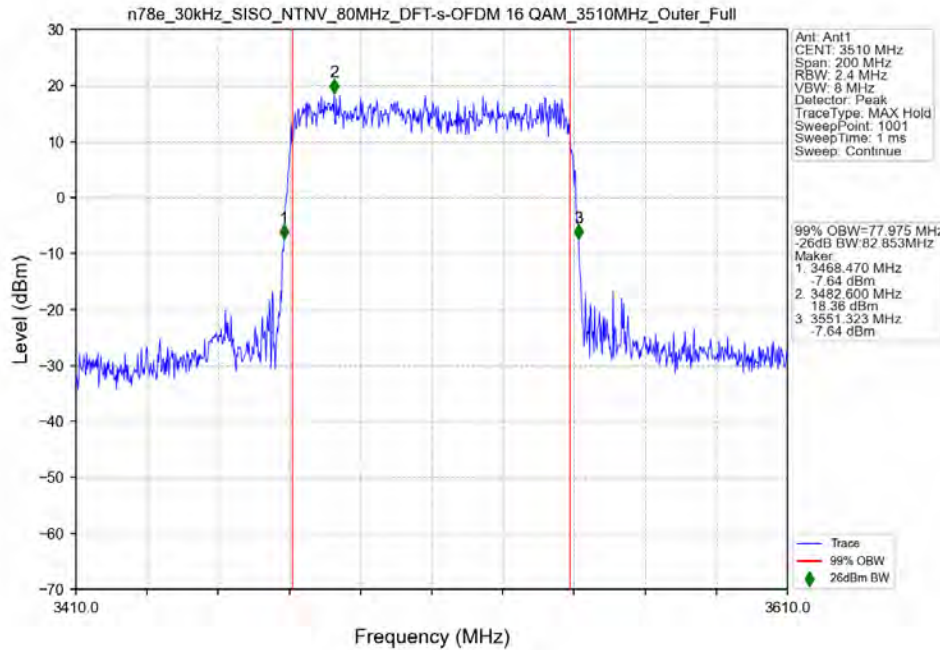
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n78e_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM 64 QAM_3490.02MHz_Outer_Full



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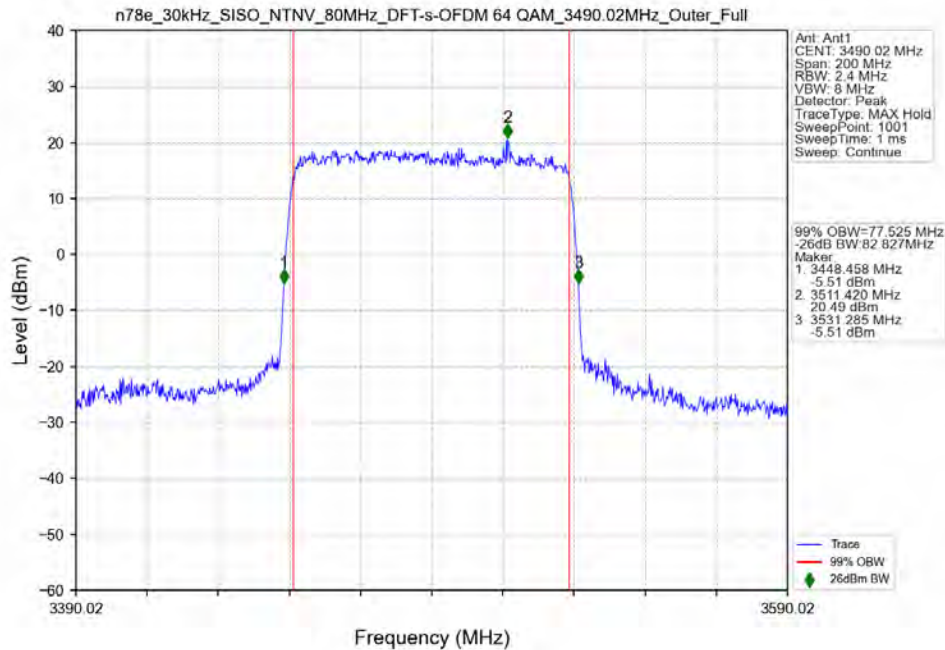


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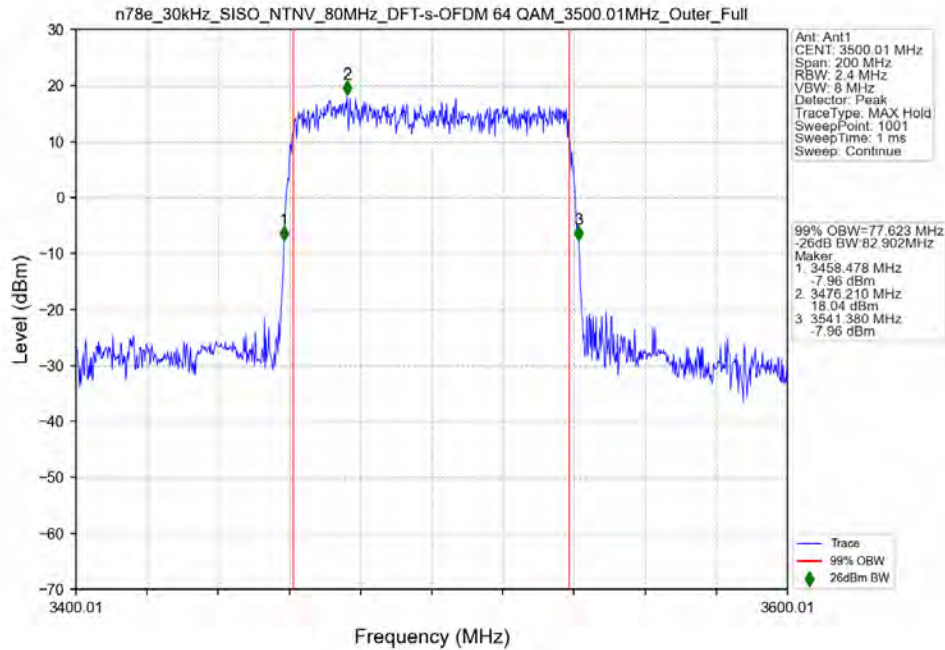
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n78e_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM 64 QAM_3510MHz_Outer_Full



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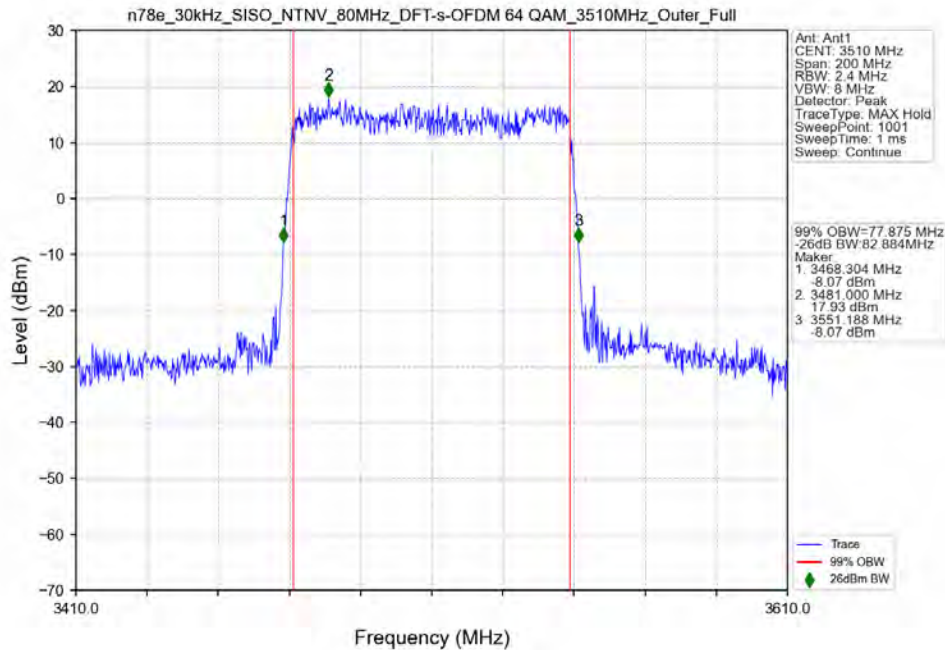


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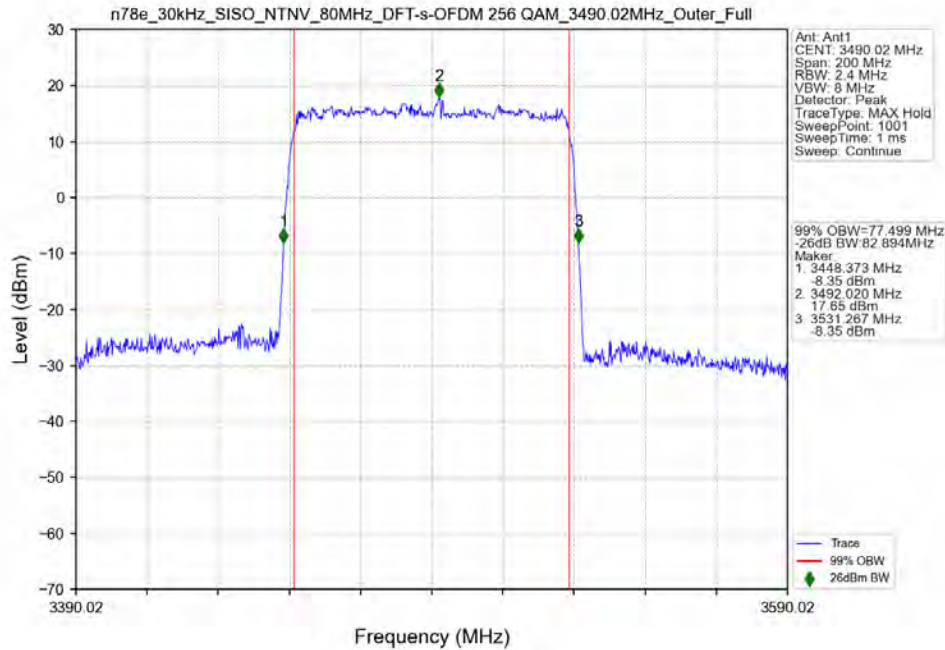
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n78e_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM_256_QAM_3490.02MHz_Outer_Full



n78e_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM_256_QAM_3500.01MHz_Outer_Full



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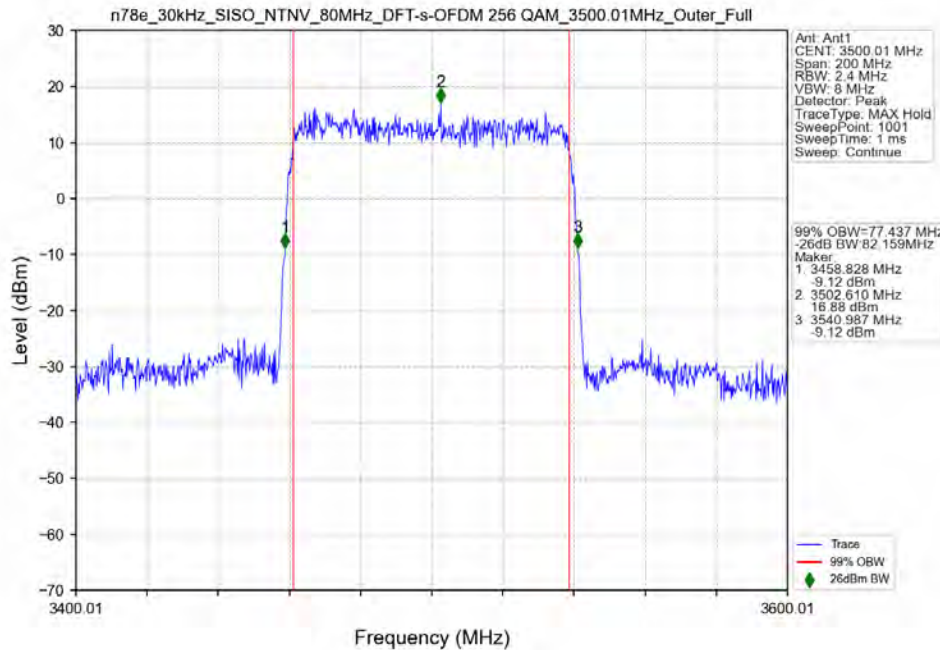


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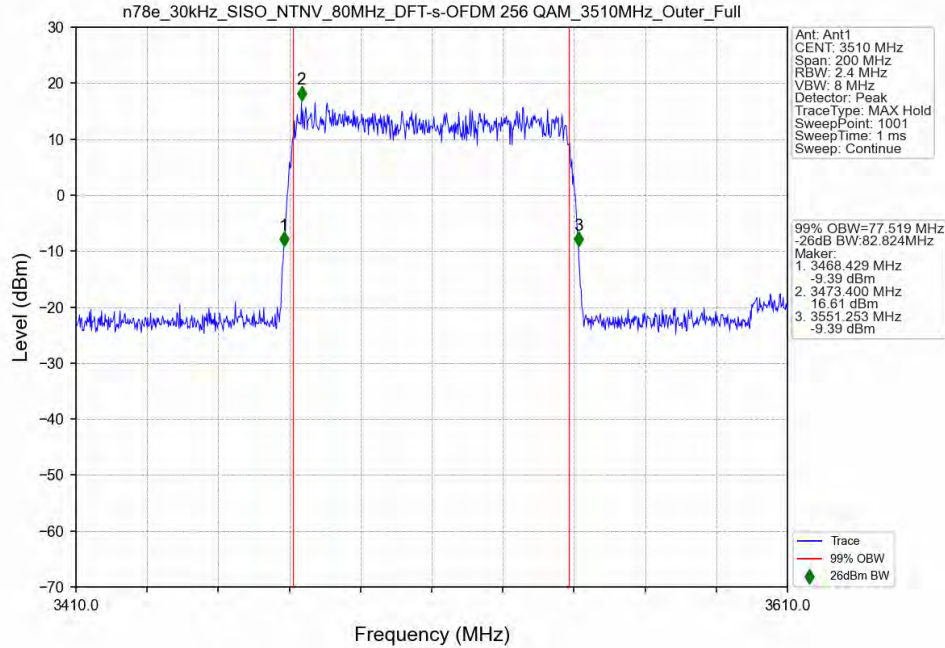
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n78e_30kHz_SISO_NTNV_80MHz_CP-OFDM_QPSK_3490.02MHz_Outer_Full



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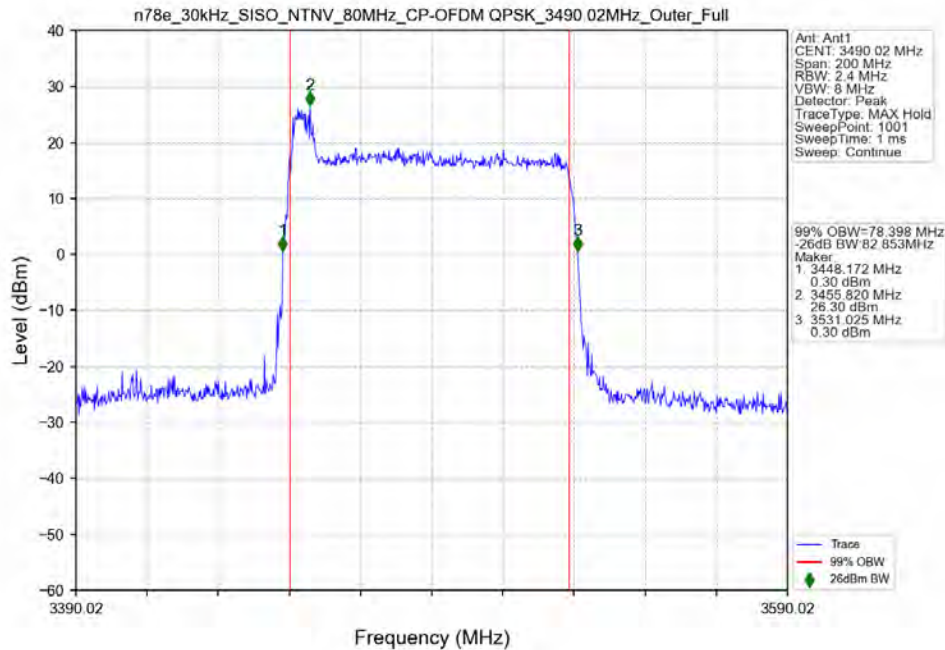


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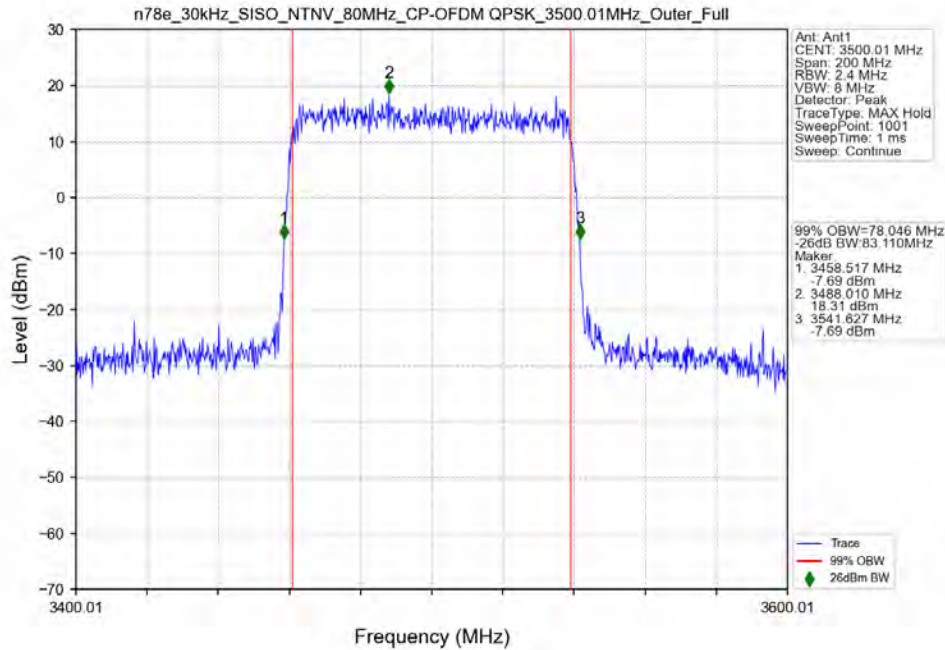
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n78e_30kHz_SISO_NTNV_80MHz_CP-OFDM QPSK_3510MHz_Outer_Full



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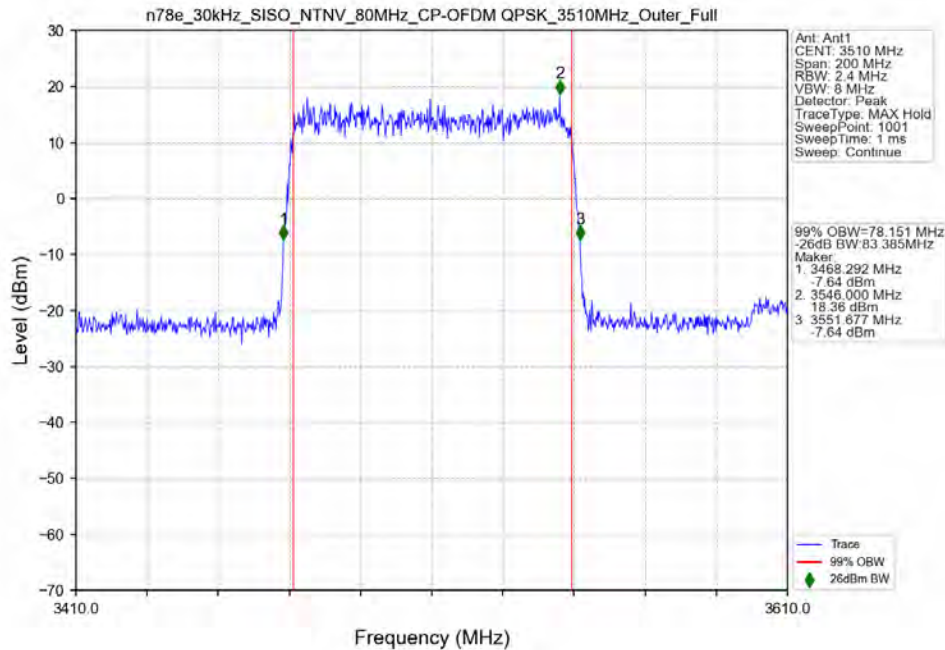


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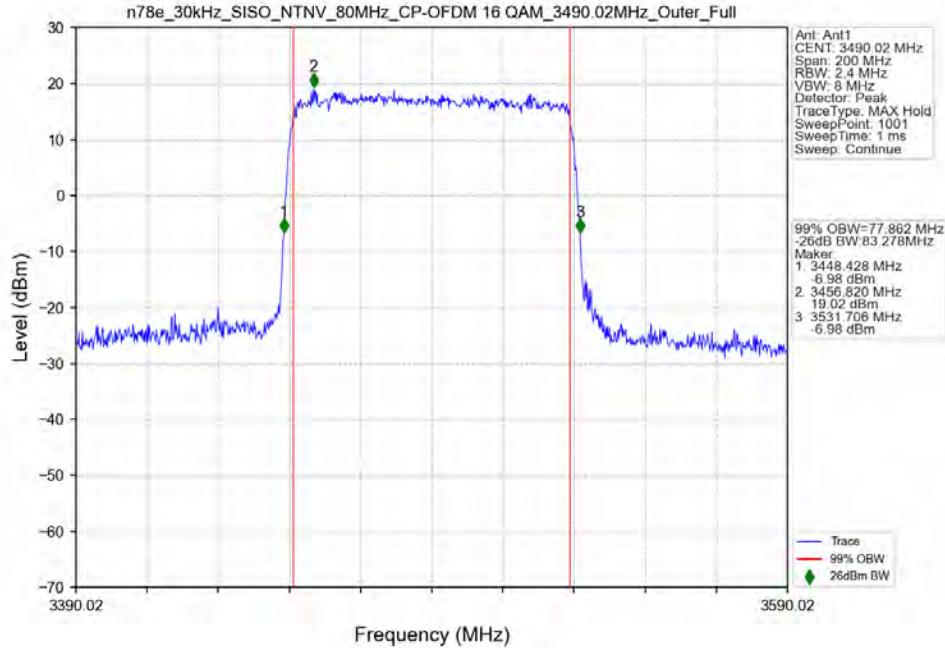
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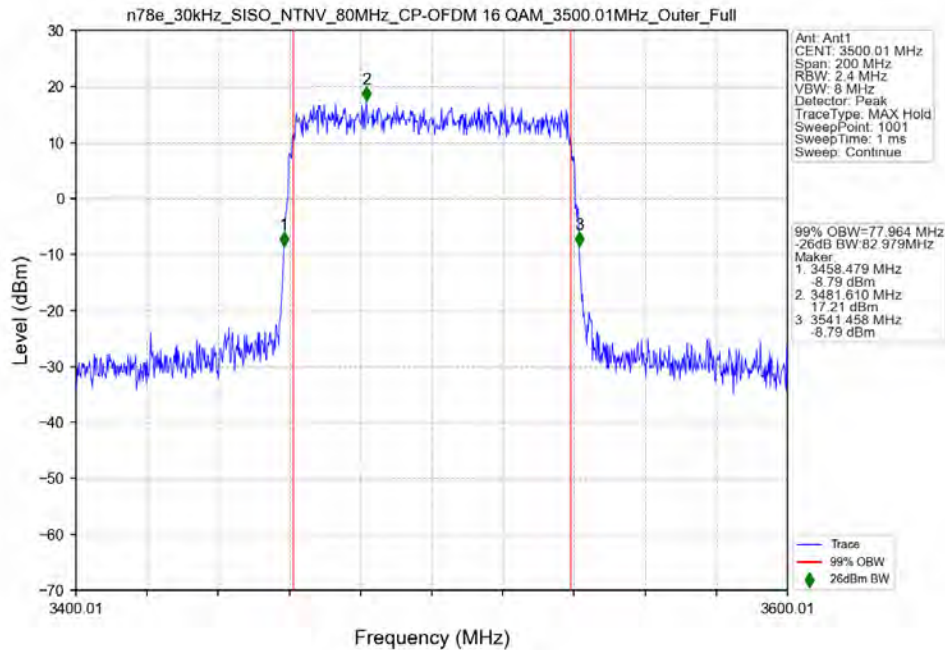


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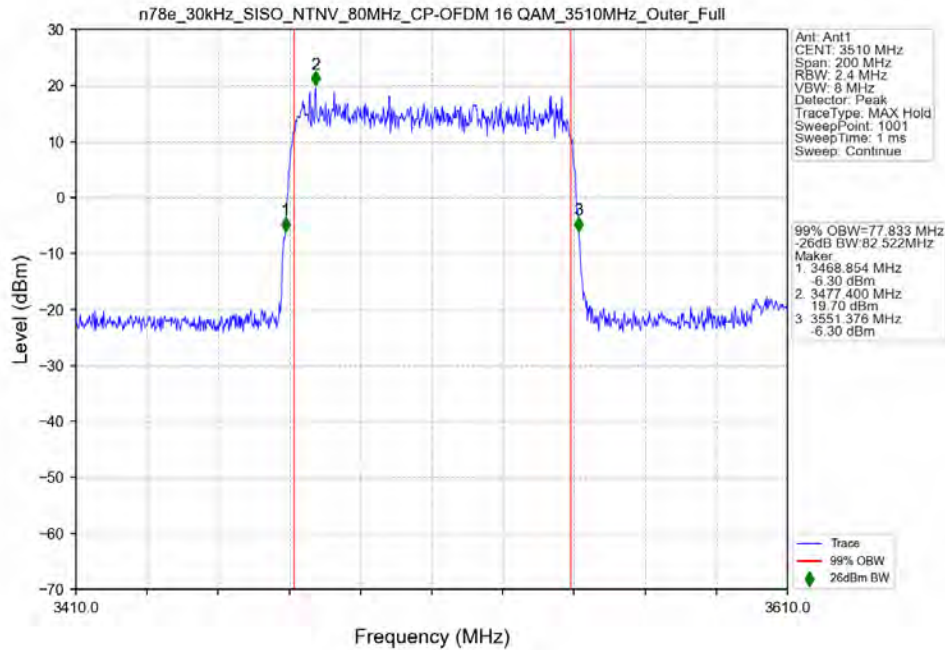
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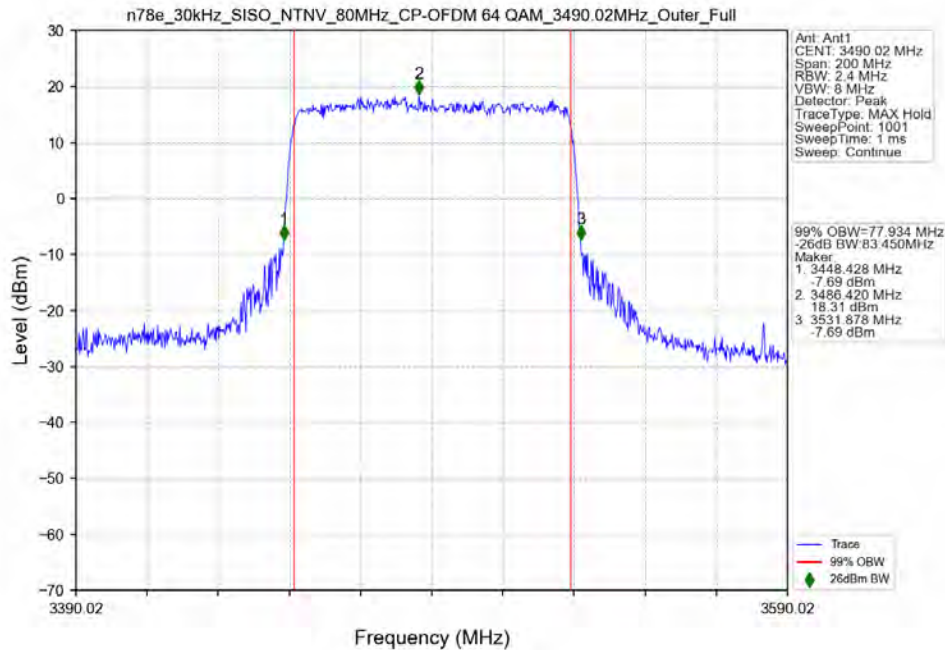


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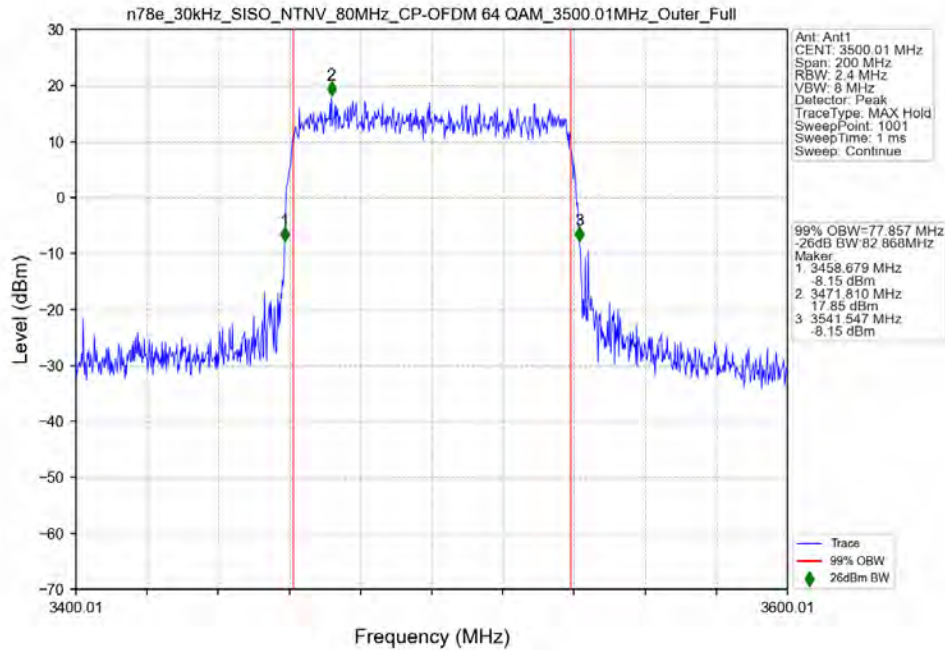
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n78e_30kHz_SISO_NTNV_80MHz_CP-OFDM 64 QAM_3500.01MHz_Outer_Full



n78e_30kHz_SISO_NTNV_80MHz_CP-OFDM 64 QAM_3510MHz_Outer_Full



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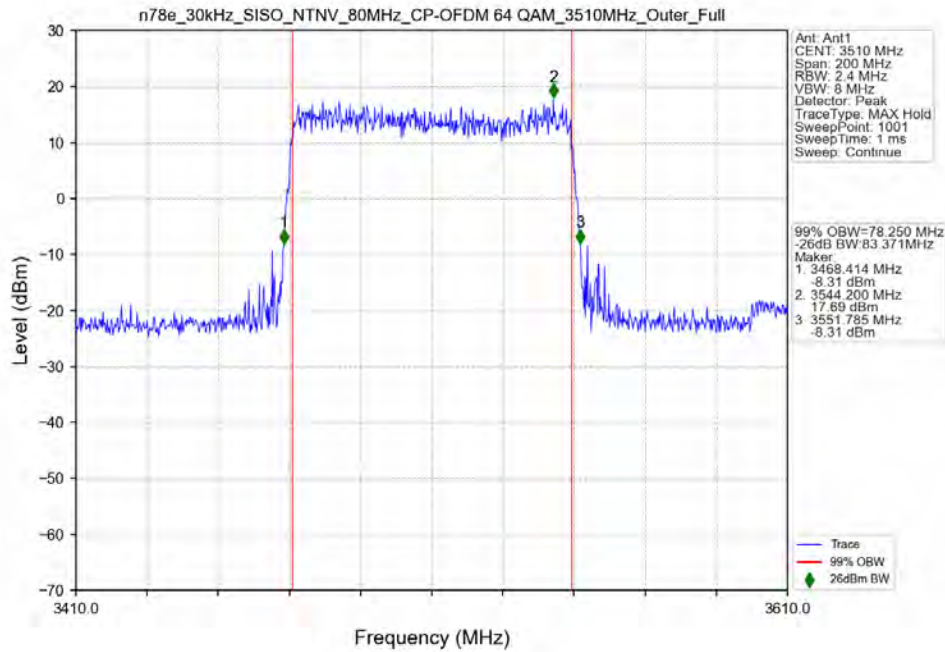


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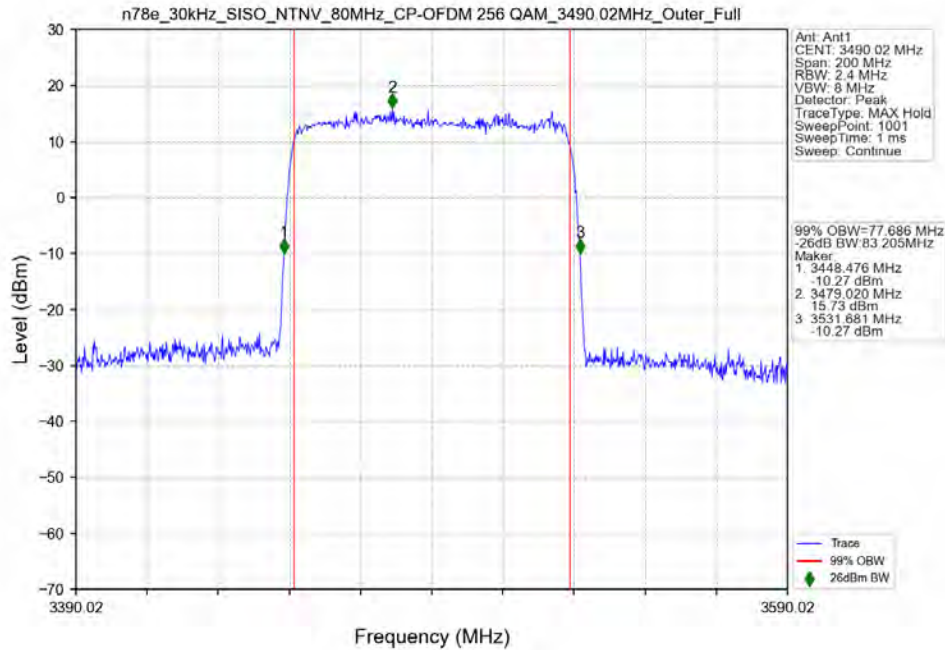
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n78e_30kHz_SISO_NTNV_80MHz_CP-OFDM_256_QAM_3490.02MHz_Outer_Full



n78e_30kHz_SISO_NTNV_80MHz_CP-OFDM_256_QAM_3500.01MHz_Outer_Full



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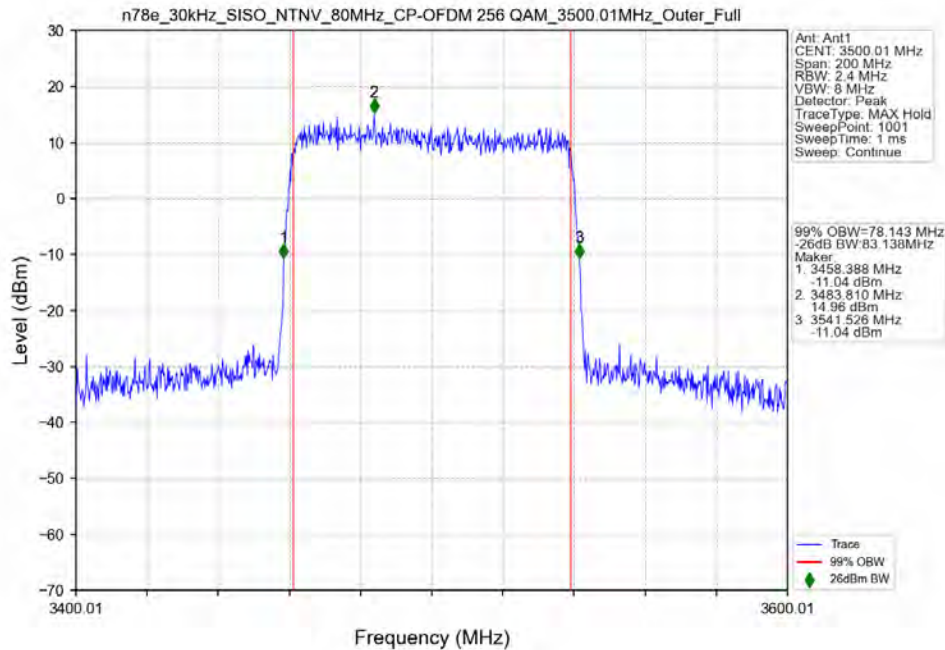


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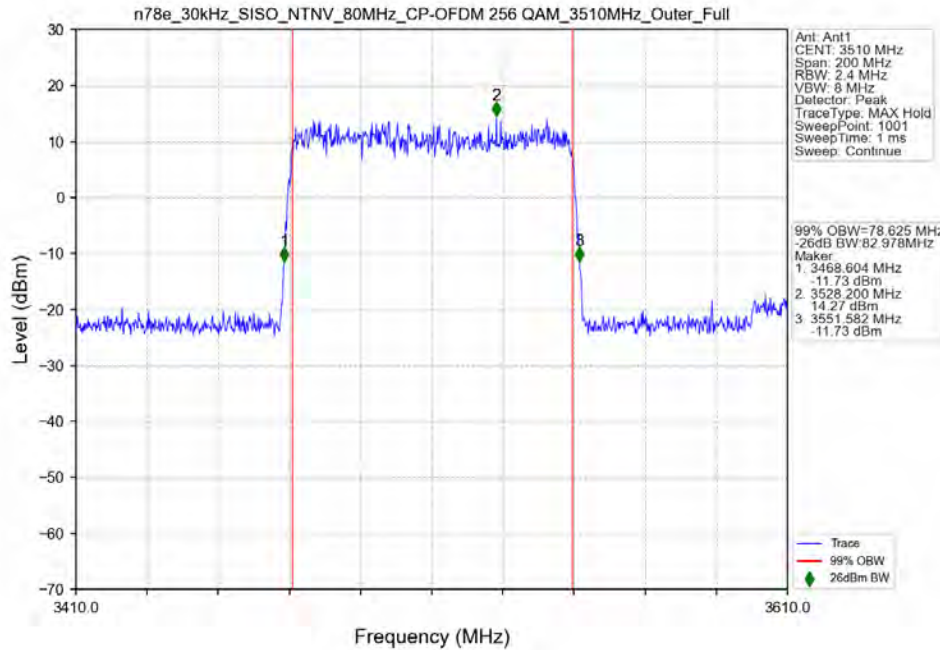
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n78e_30kHz_SISO_NTNV_80MHz_CP-OFDM_256_QAM_3510MHz_Outer_Full



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3.8 30k_SISO_90MHz_NTNV

3.8.1 Test Result

5G NR n78e SCS=30kHz SISO 90MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3495	Outer Full	86.92	92.60	/	Pass
	3500.01	Outer Full	88.03	91.95	/	Pass
	3504.99	Outer Full	87.44	92.76	/	Pass
DFT-s-OFDM QPSK	3495	Outer Full	86.98	92.89	/	Pass
	3500.01	Outer Full	86.97	92.93	/	Pass
	3504.99	Outer Full	86.86	92.43	/	Pass
DFT-s-OFDM 16 QAM	3495	Outer Full	87.04	93.14	/	Pass
	3500.01	Outer Full	87.42	92.89	/	Pass
	3504.99	Outer Full	87.13	92.83	/	Pass
DFT-s-OFDM 64 QAM	3495	Outer Full	86.97	92.49	/	Pass
	3500.01	Outer Full	87.36	92.84	/	Pass
	3504.99	Outer Full	87.27	92.70	/	Pass
DFT-s-OFDM 256 QAM	3495	Outer Full	87.20	92.69	/	Pass
	3500.01	Outer Full	87.06	93.06	/	Pass
	3504.99	Outer Full	87.16	92.58	/	Pass
CP-OFDM QPSK	3495	Outer Full	87.73	93.47	/	Pass
	3500.01	Outer Full	88.84	93.51	/	Pass
	3504.99	Outer Full	87.95	93.37	/	Pass
CP-OFDM 16 QAM	3495	Outer Full	87.81	93.23	/	Pass
	3500.01	Outer Full	88.05	93.77	/	Pass
	3504.99	Outer Full	88.13	93.55	/	Pass
CP-OFDM 64 QAM	3495	Outer Full	87.84	93.87	/	Pass
	3500.01	Outer Full	87.70	93.88	/	Pass
	3504.99	Outer Full	88.00	93.78	/	Pass
CP-OFDM 256 QAM	3495	Outer Full	87.97	93.45	/	Pass
	3500.01	Outer Full	87.85	93.35	/	Pass
	3504.99	Outer Full	88.15	93.51	/	Pass



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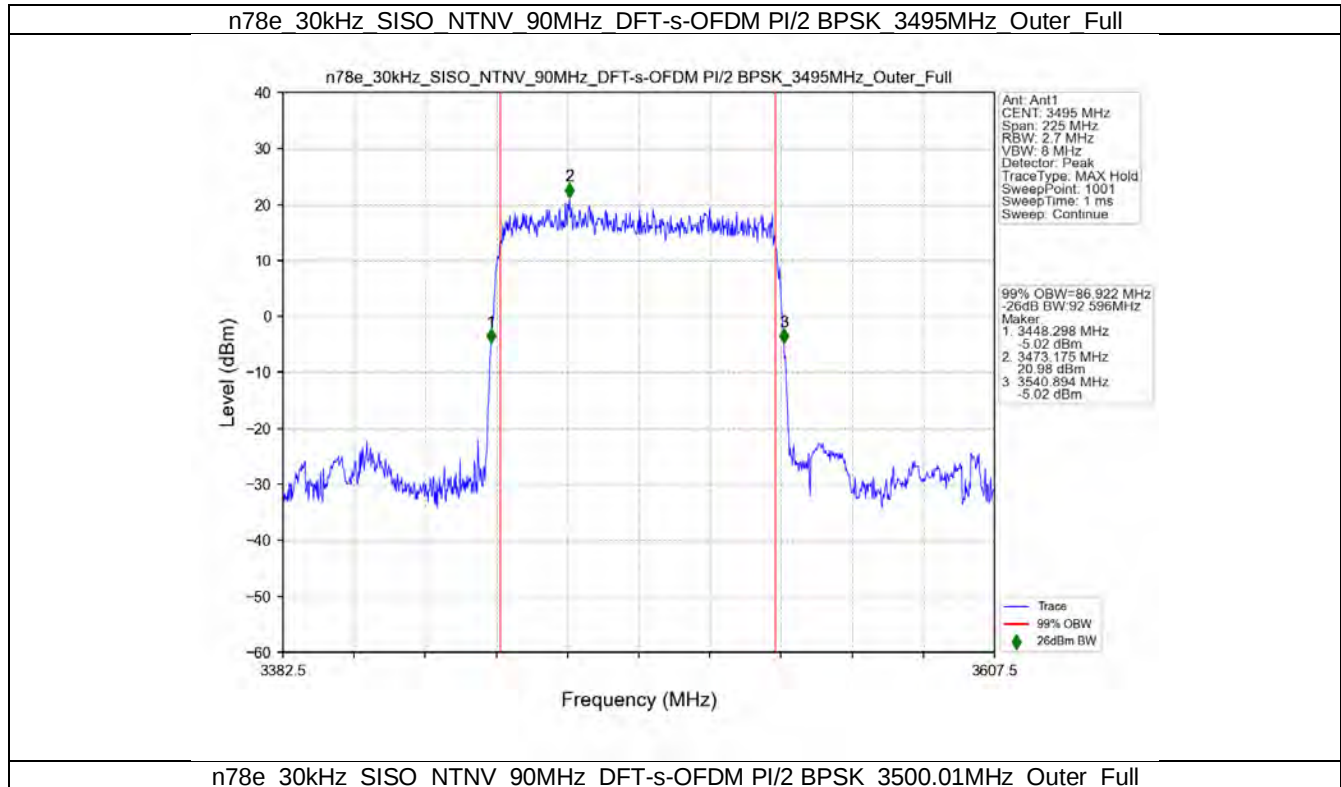
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3.8.2 Test Graph



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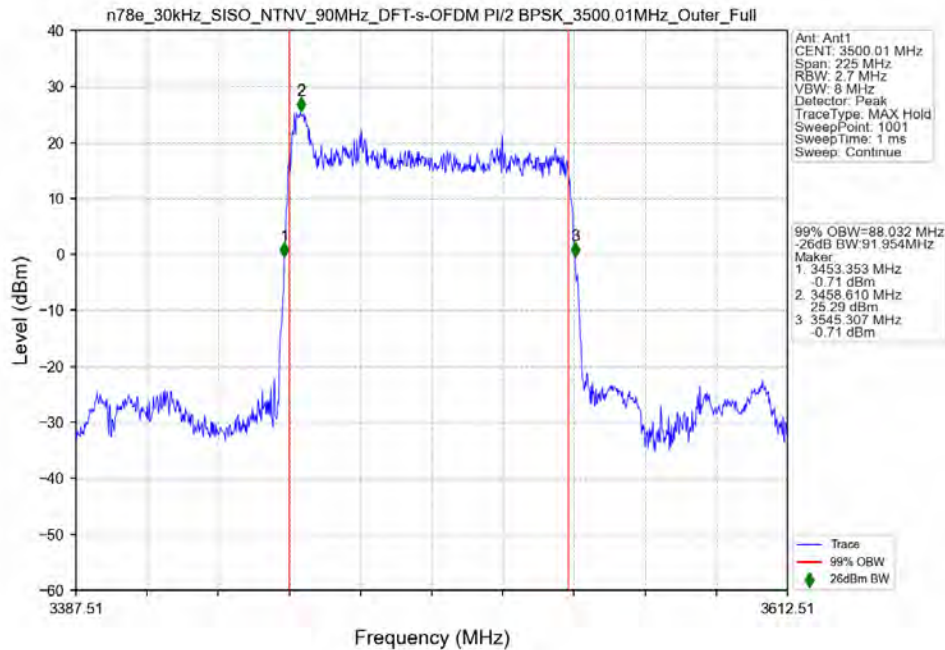


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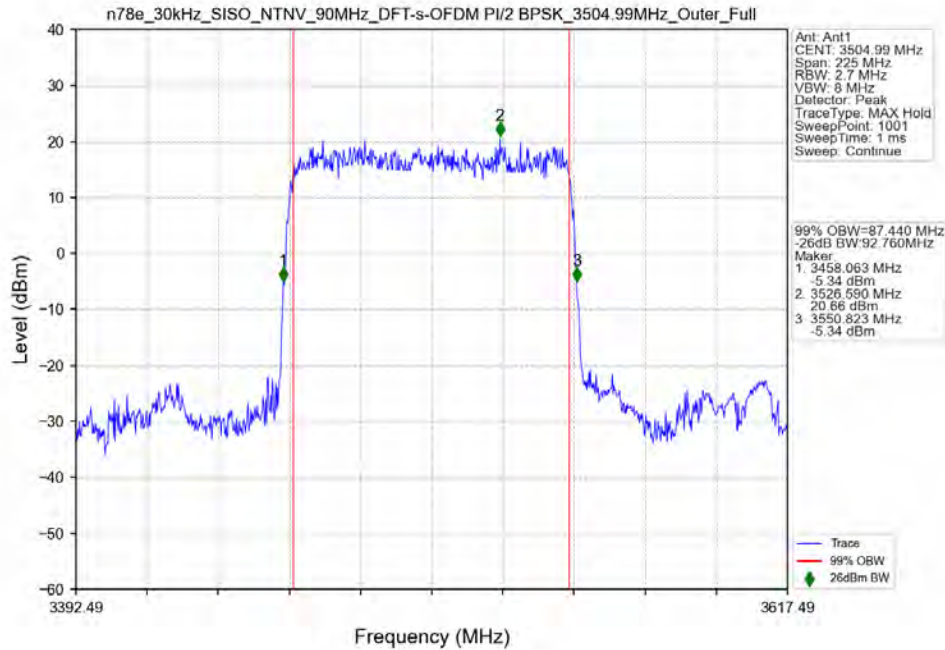
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n78e_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM PI/2 BPSK_3504.99MHz_Outer_Full



n78e_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM QPSK_3495MHz_Outer_Full



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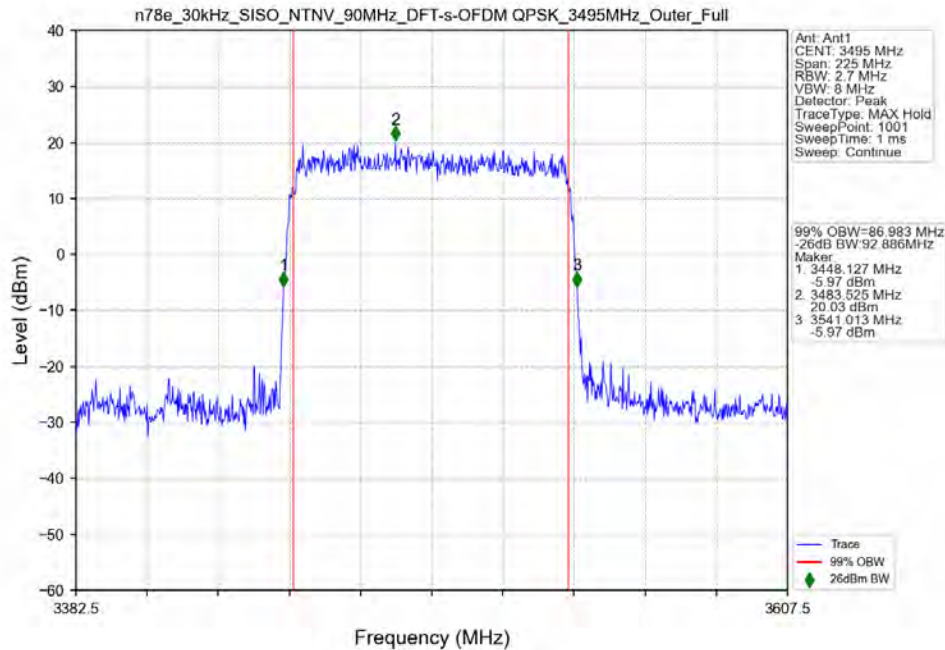


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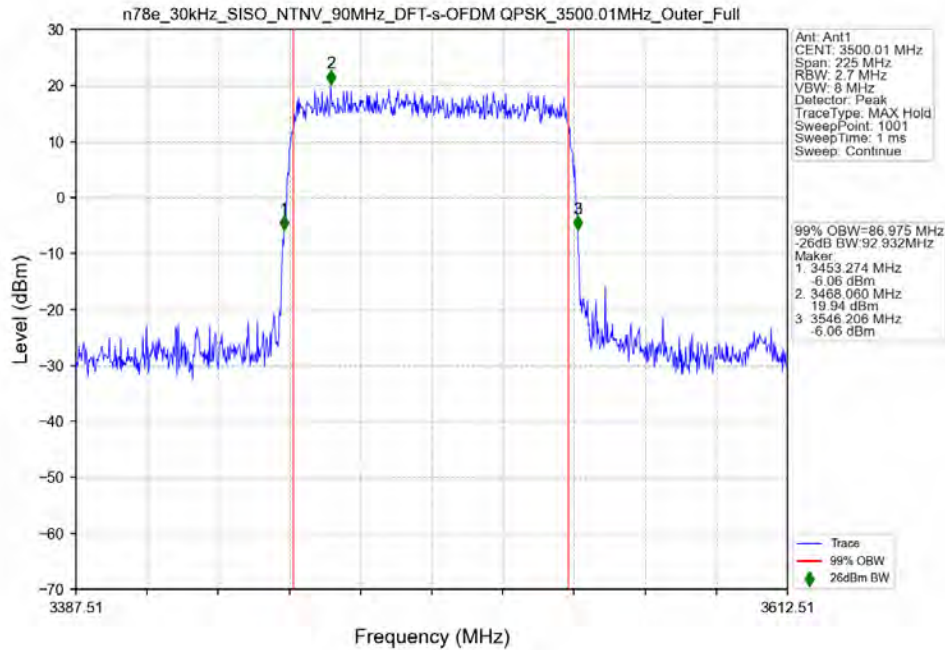
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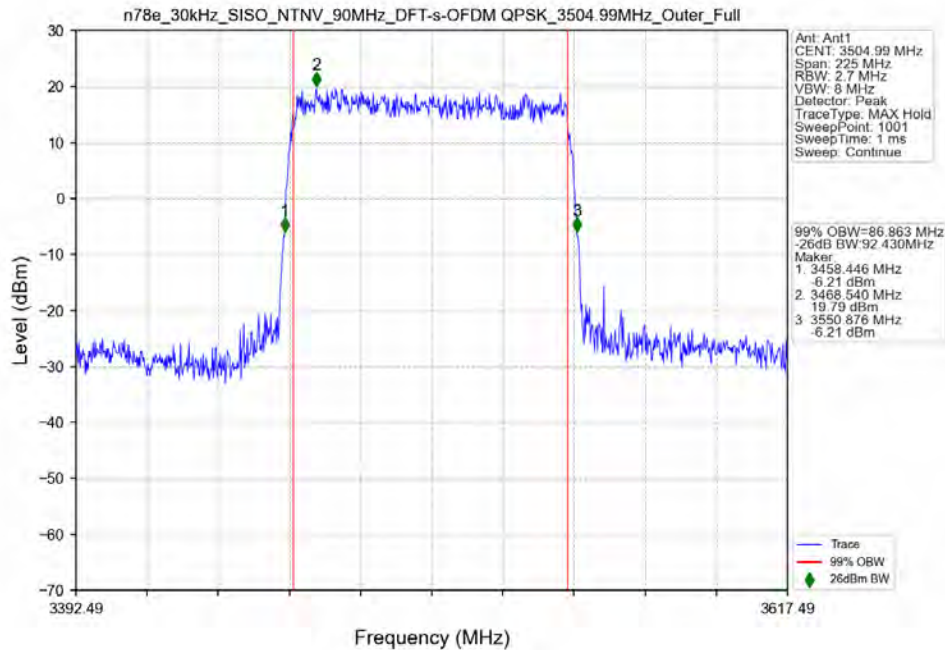


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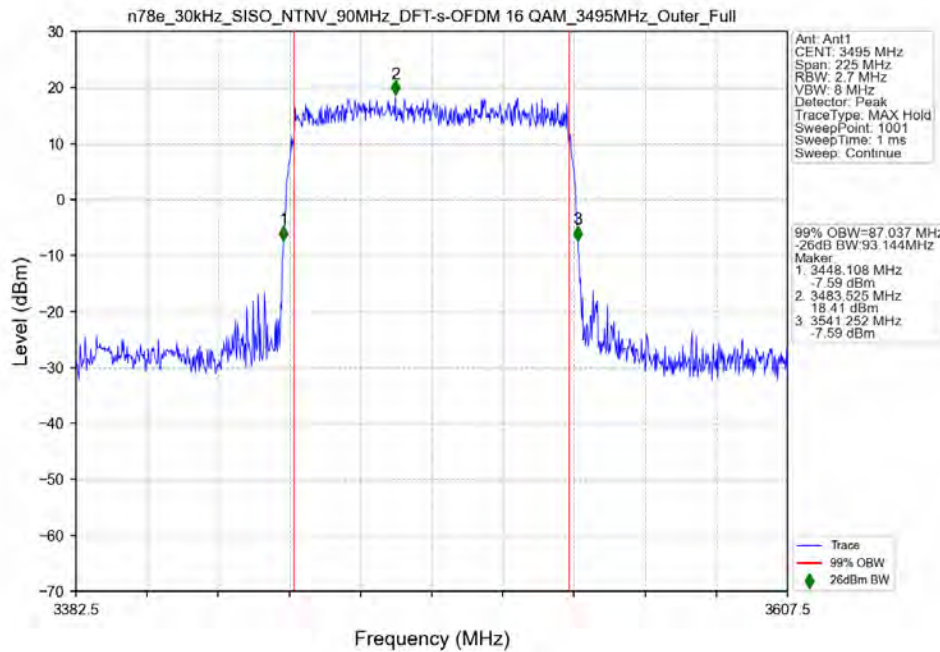
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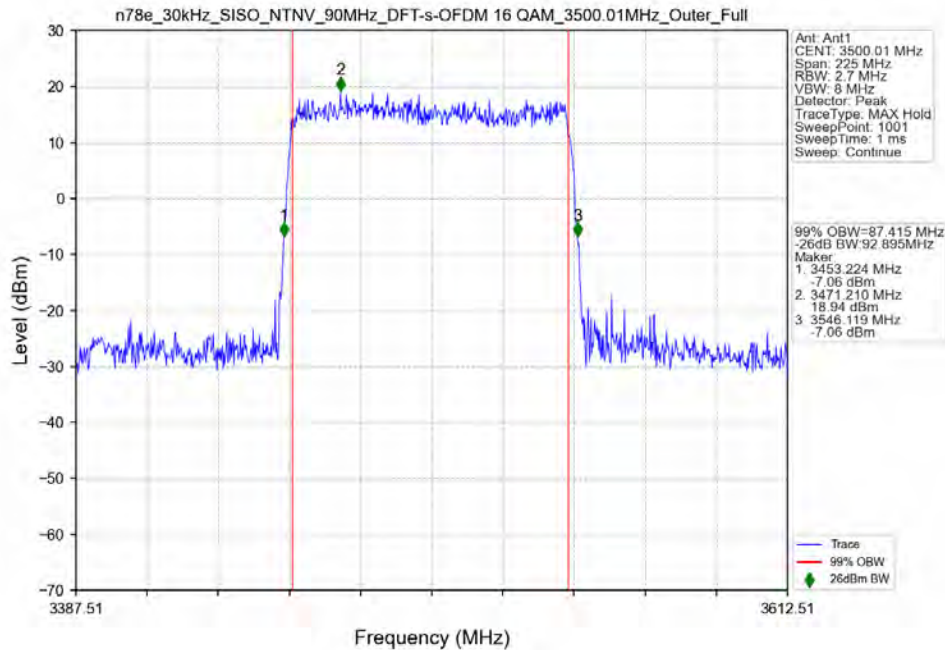


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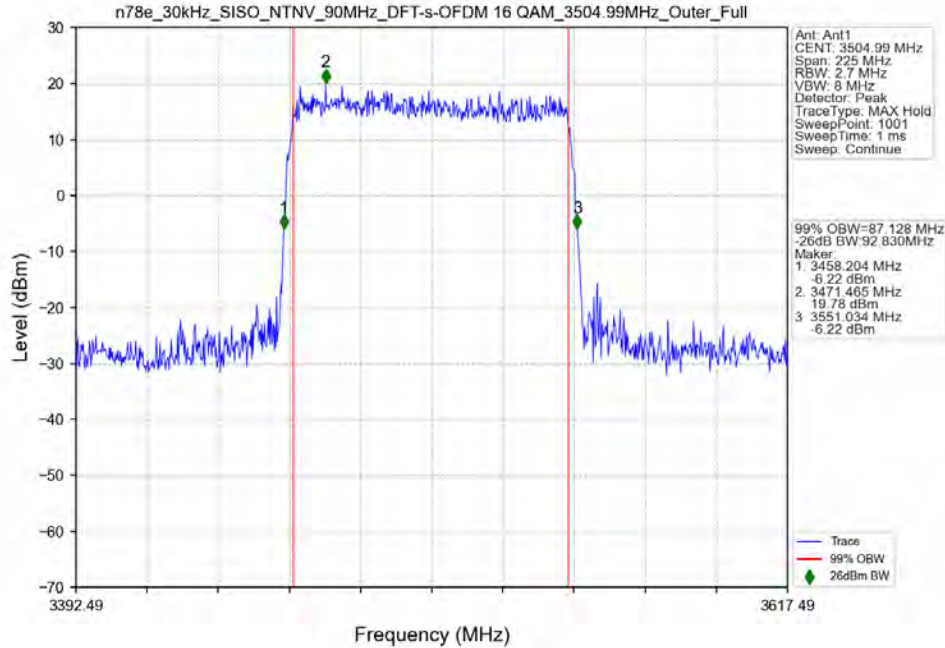
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n78e_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM 64 QAM_3495MHz_Outer_Full



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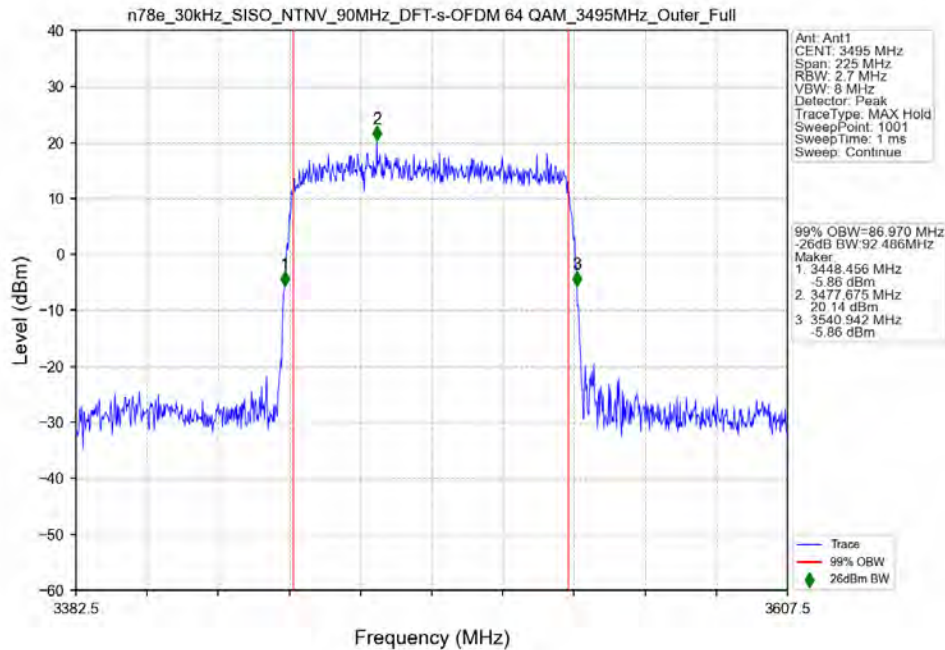


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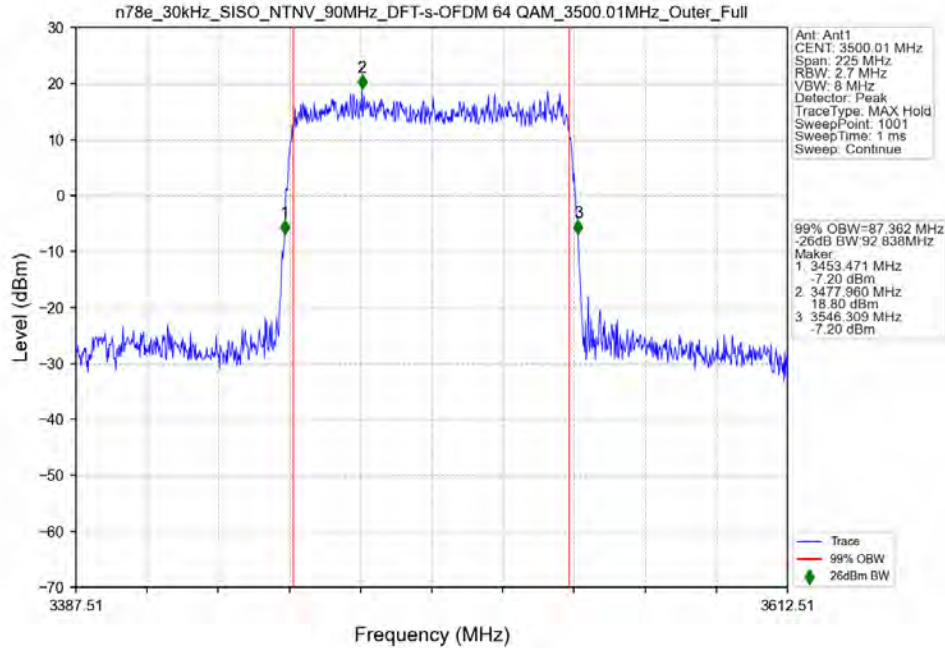
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n78e_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM 64 QAM_3504.99MHz_Outer_Full



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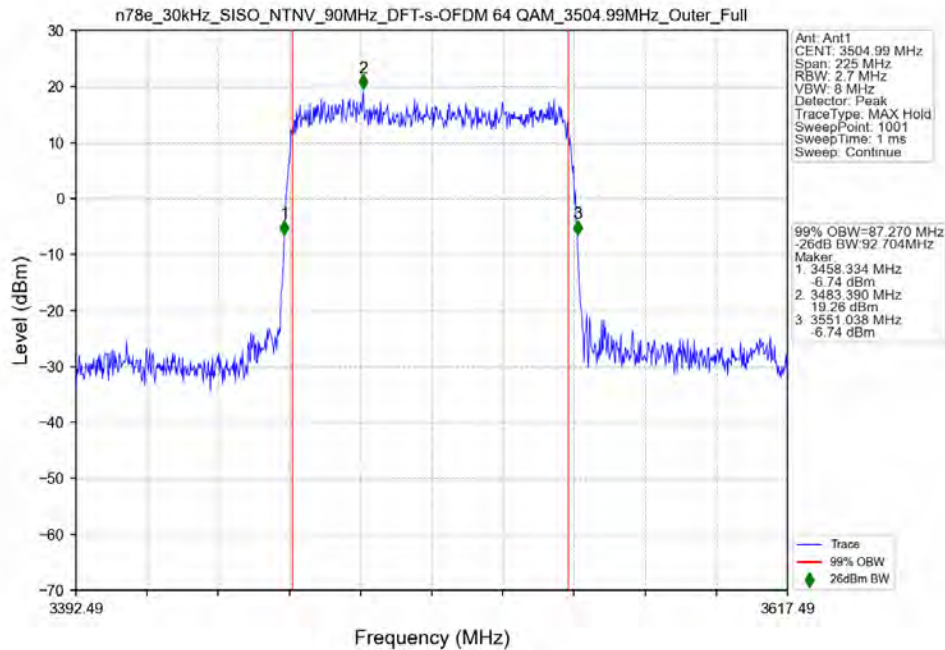


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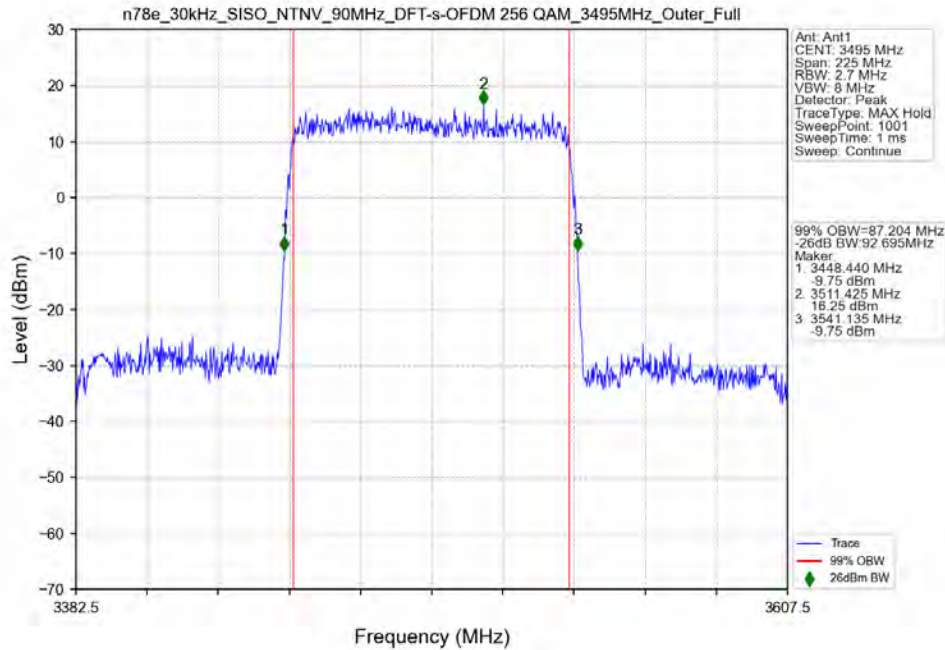
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n78e_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM_256_QAM_3500.01MHz_Outer_Full



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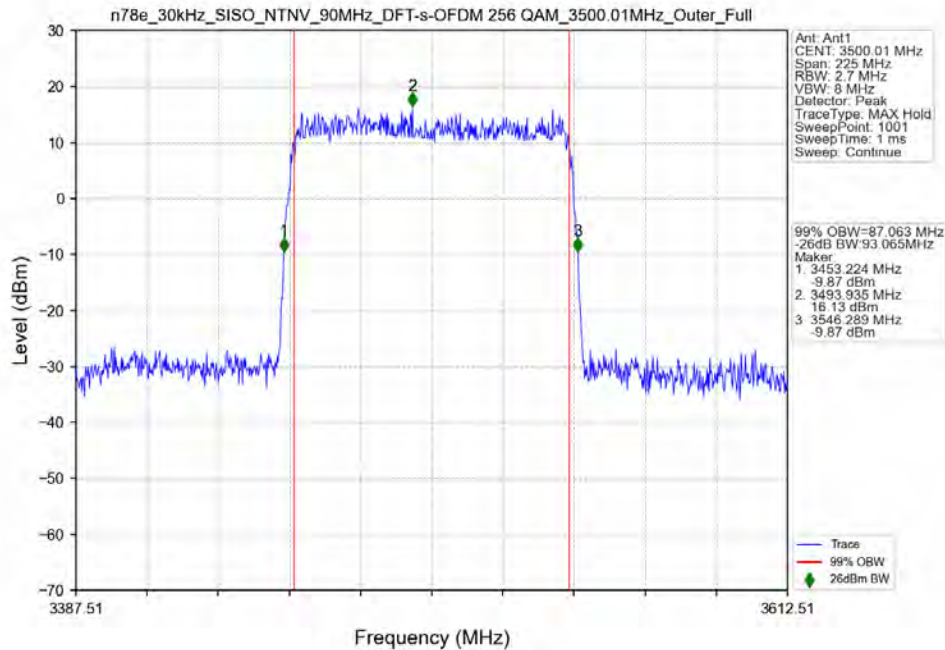


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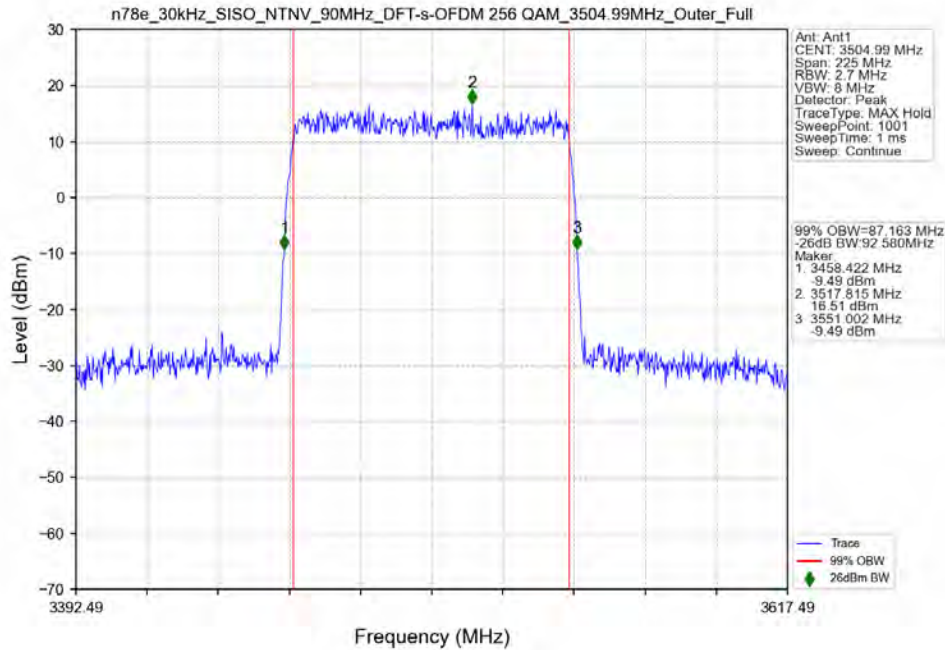
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n78e_30kHz_SISO_NTNV_90MHz_CP-OFDM_QPSK_3495MHz_Outer_Full



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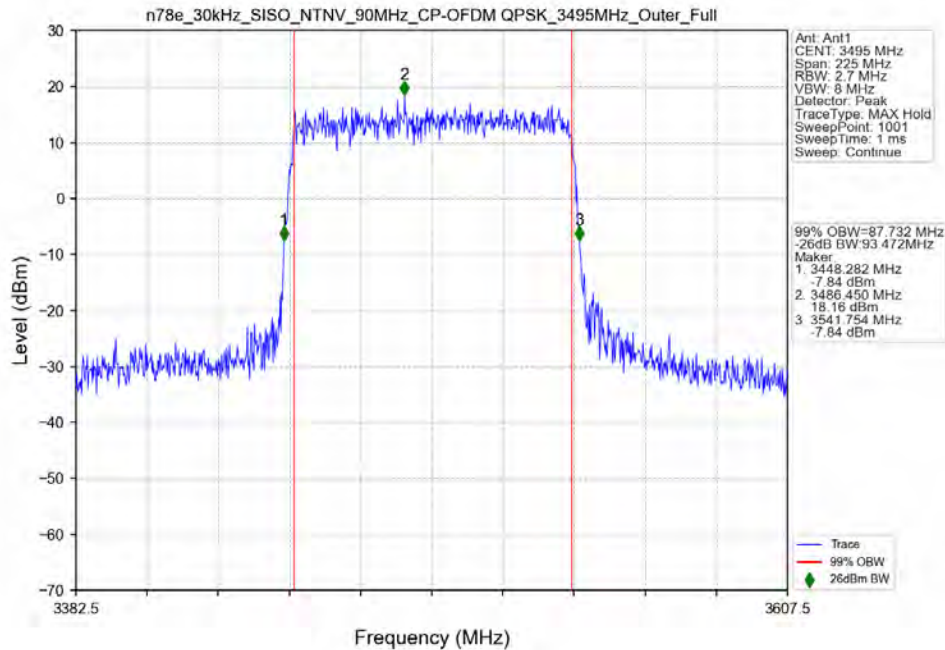


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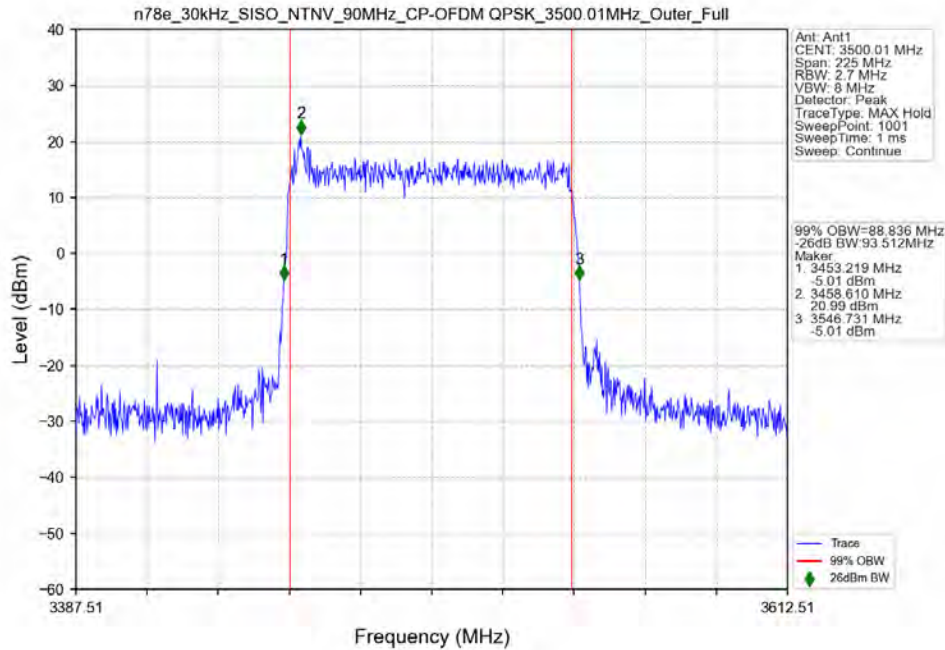
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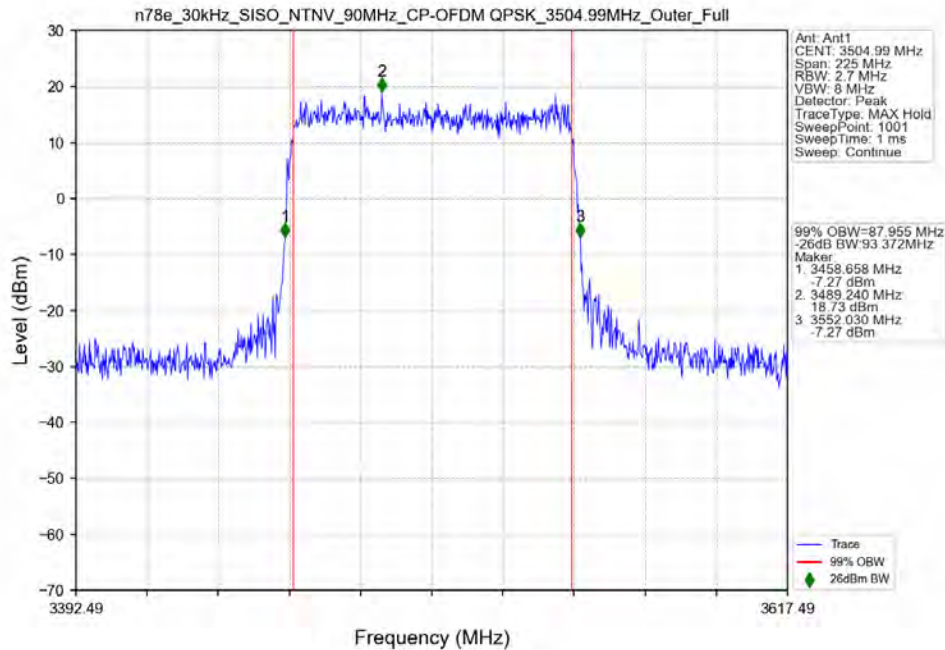


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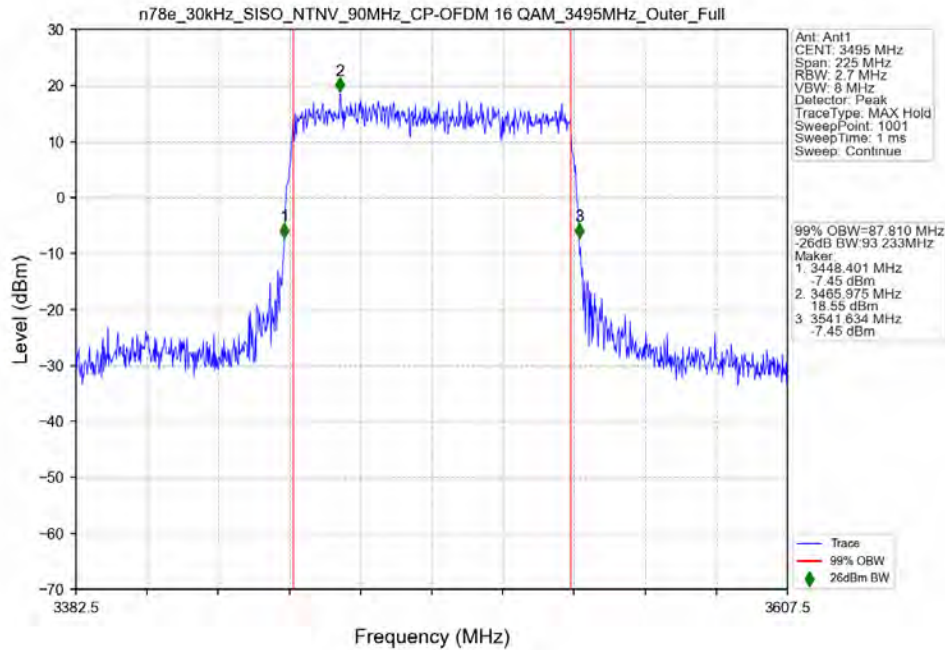
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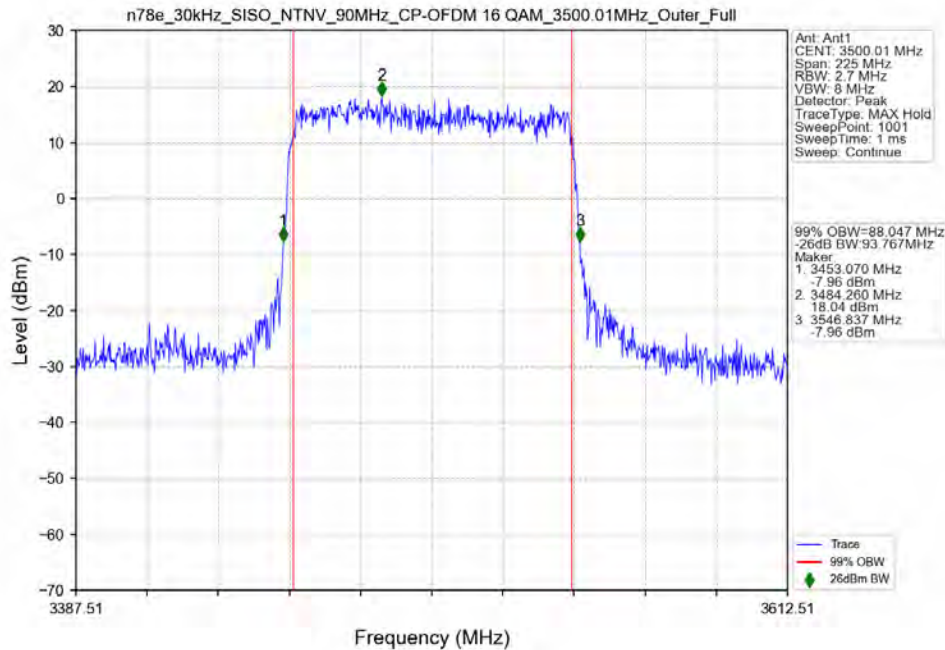


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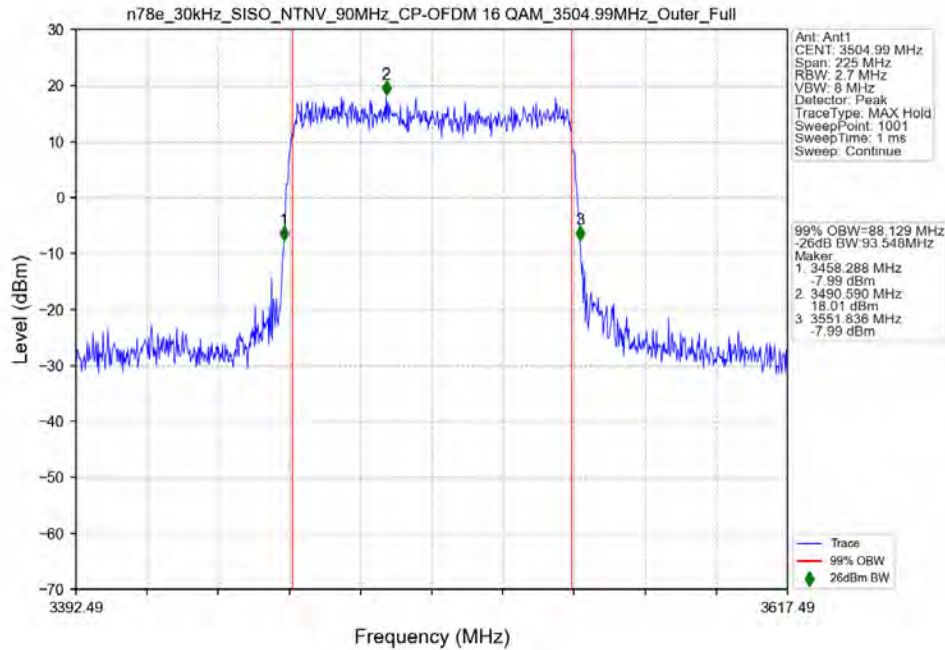
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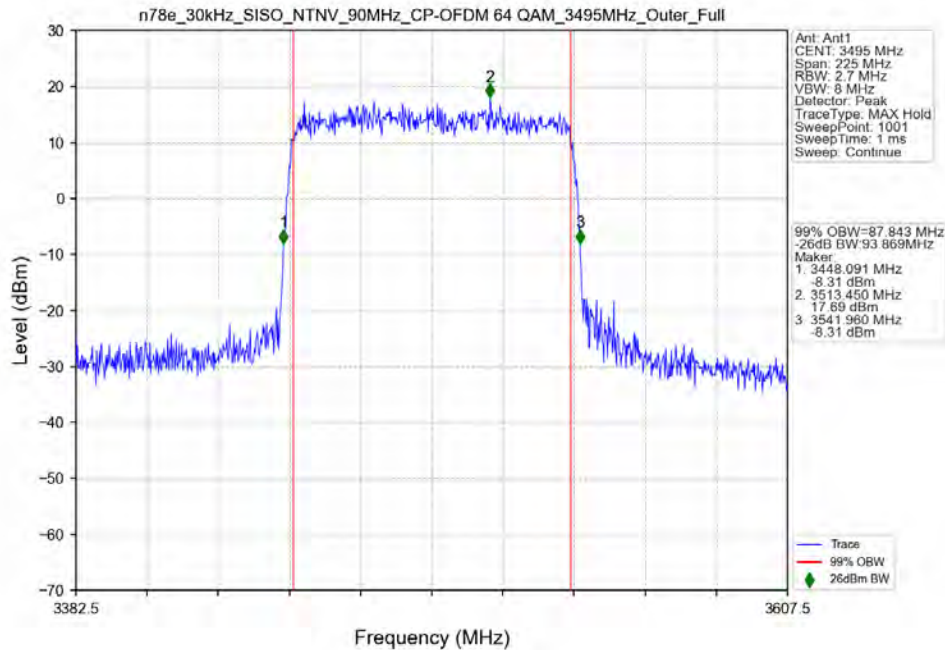


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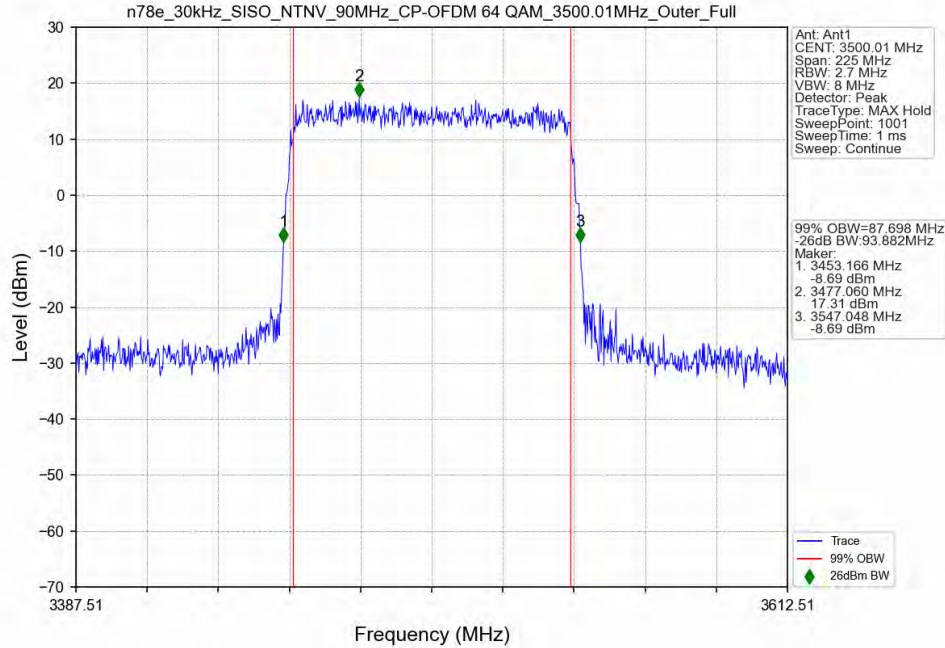
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n78e_30kHz_SISO_NTNV_90MHz_CP-OFDM 64 QAM_3500.01MHz_Outer_Full



n78e_30kHz_SISO_NTNV_90MHz_CP-OFDM 64 QAM_3504.99MHz_Outer_Full



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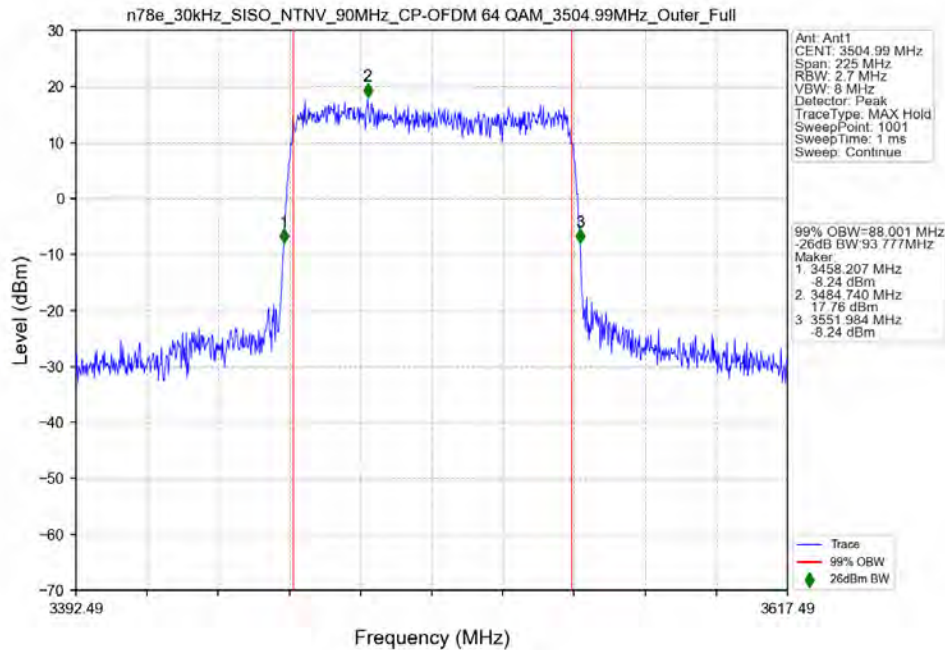


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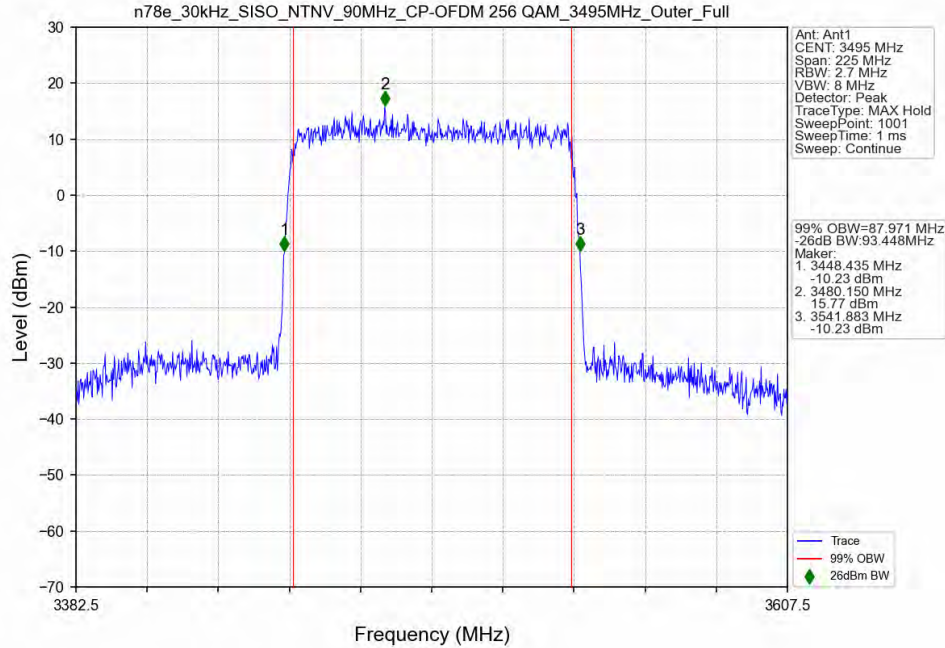
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n78e_30kHz_SISO_NTNV_90MHz_CP-OFDM_256_QAM_3495MHz_Outer_Full



n78e_30kHz_SISO_NTNV_90MHz_CP-OFDM_256_QAM_3500.01MHz_Outer_Full



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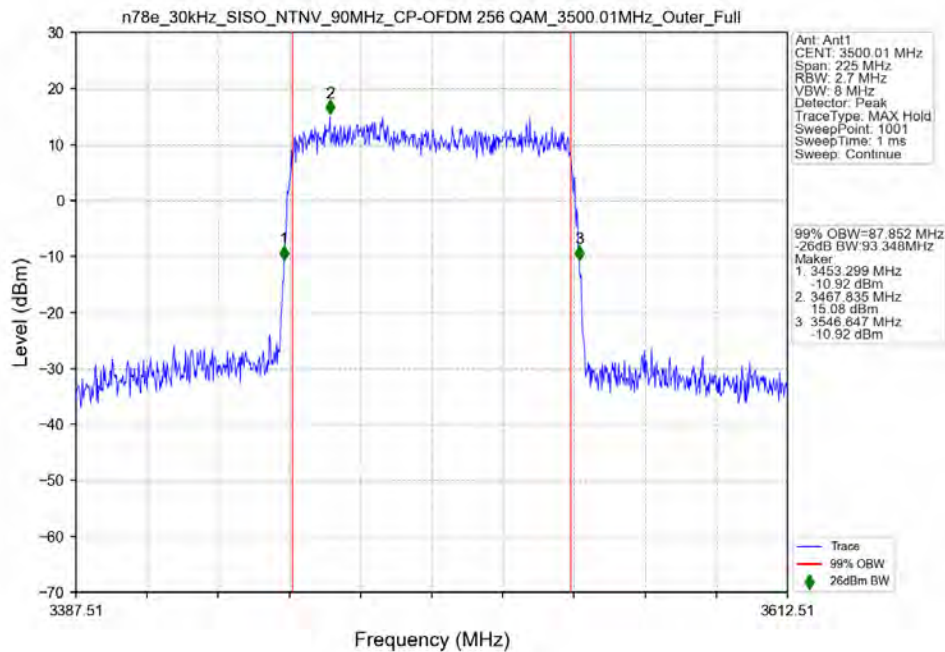


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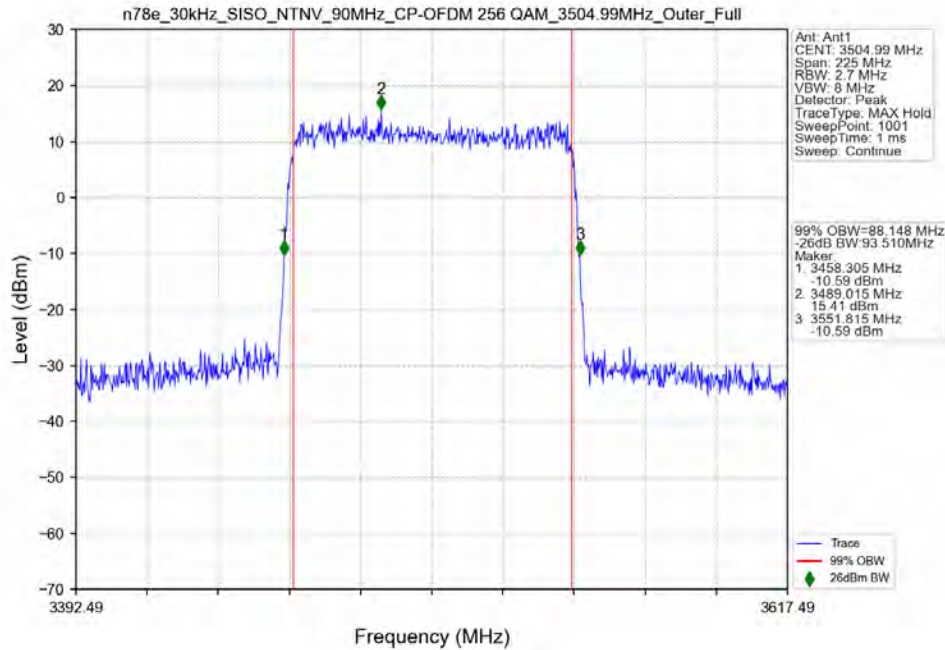
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3.9 30k_SISO_100MHz_NTNV

3.9.1 Test Result

5G NR n78e SCS=30kHz SISO 100MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3500.01	Outer Full	97.12	103.46	/	Pass
	3500.01	Outer Full	97.27	103.15	/	Pass
	3499.98	Outer Full	97.09	103.39	/	Pass
DFT-s-OFDM QPSK	3500.01	Outer Full	96.76	103.33	/	Pass
	3500.01	Outer Full	96.78	103.78	/	Pass
	3499.98	Outer Full	97.05	103.00	/	Pass
DFT-s-OFDM 16 QAM	3500.01	Outer Full	96.63	103.43	/	Pass
	3500.01	Outer Full	96.68	102.70	/	Pass
	3499.98	Outer Full	96.82	103.43	/	Pass
DFT-s-OFDM 64 QAM	3500.01	Outer Full	96.58	103.38	/	Pass
	3500.01	Outer Full	97.44	103.36	/	Pass
	3499.98	Outer Full	96.88	103.42	/	Pass
DFT-s-OFDM 256 QAM	3500.01	Outer Full	97.19	103.85	/	Pass
	3500.01	Outer Full	96.97	103.40	/	Pass
	3499.98	Outer Full	97.02	103.25	/	Pass
CP-OFDM QPSK	3500.01	Outer Full	98.10	104.57	/	Pass
	3500.01	Outer Full	97.83	104.29	/	Pass
	3499.98	Outer Full	97.83	104.36	/	Pass
CP-OFDM 16 QAM	3500.01	Outer Full	98.03	104.14	/	Pass
	3500.01	Outer Full	98.32	104.76	/	Pass
	3499.98	Outer Full	97.97	104.68	/	Pass
CP-OFDM 64 QAM	3500.01	Outer Full	98.06	104.36	/	Pass
	3500.01	Outer Full	98.05	104.71	/	Pass
	3499.98	Outer Full	98.16	104.61	/	Pass
CP-OFDM 256 QAM	3500.01	Outer Full	97.78	104.35	/	Pass
	3500.01	Outer Full	97.84	104.48	/	Pass
	3499.98	Outer Full	97.95	104.14	/	Pass



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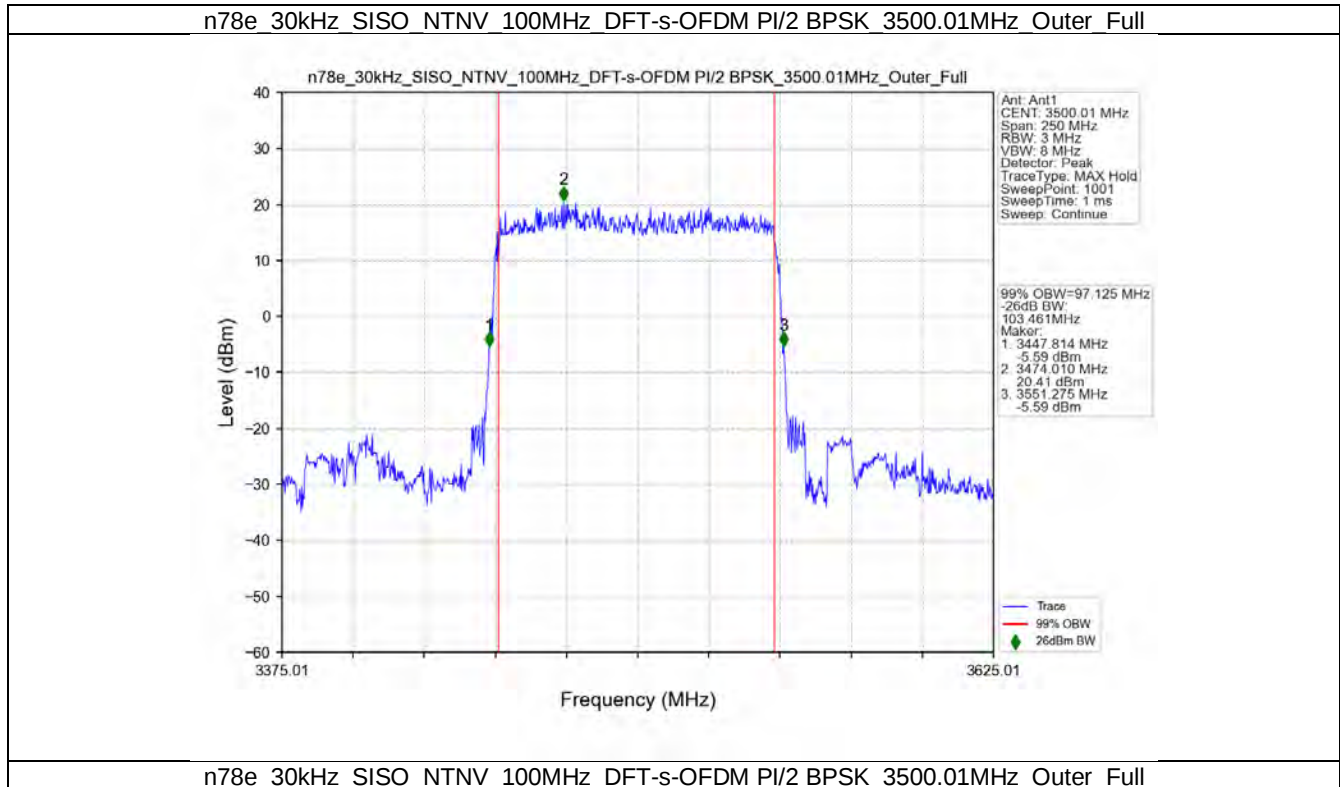
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3.9.2 Test Graph



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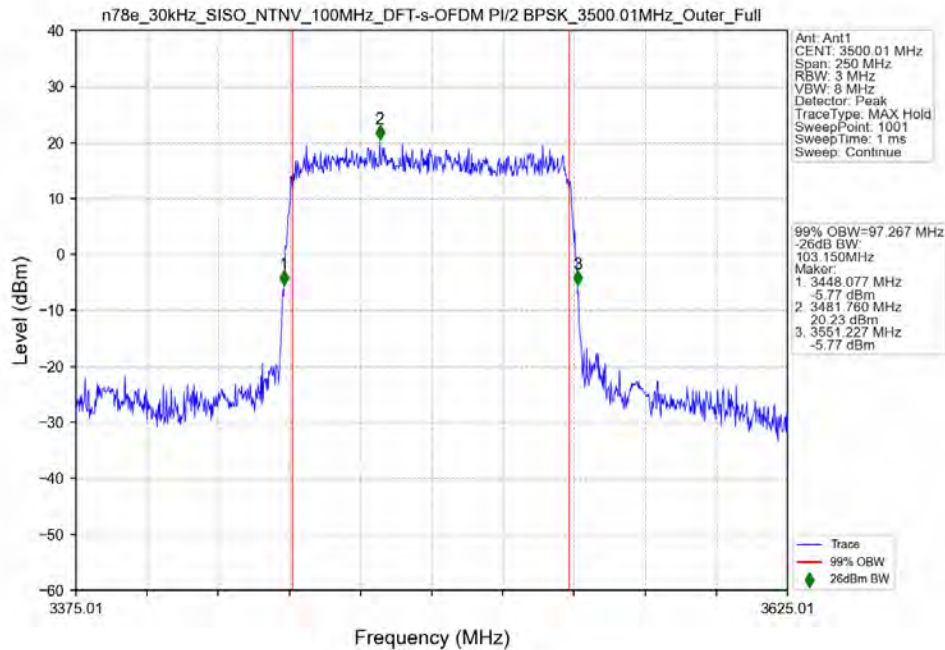


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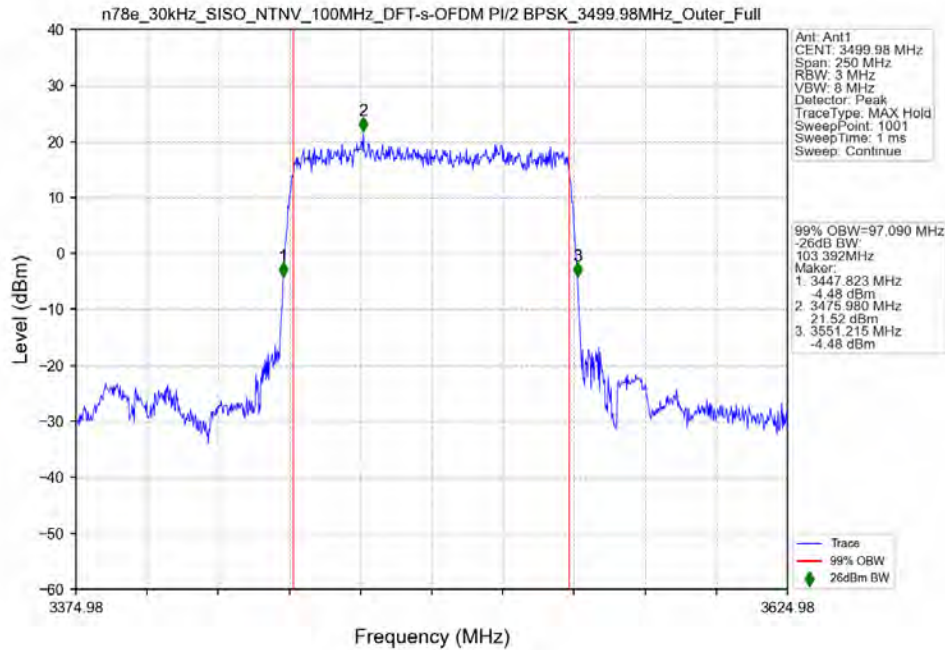
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n78e_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM PI/2 BPSK_3499.98MHz_Outer_Full



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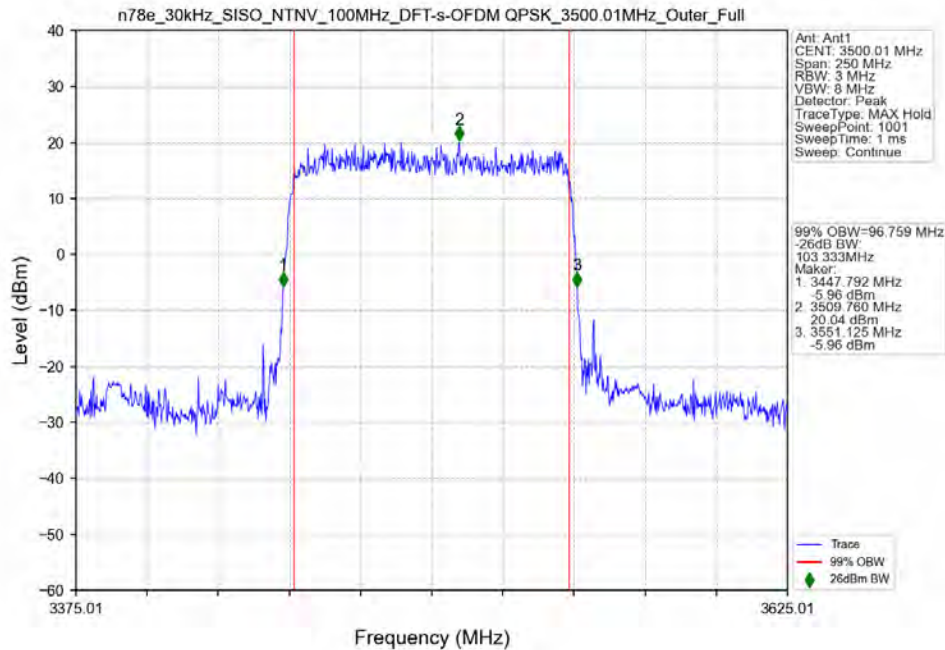


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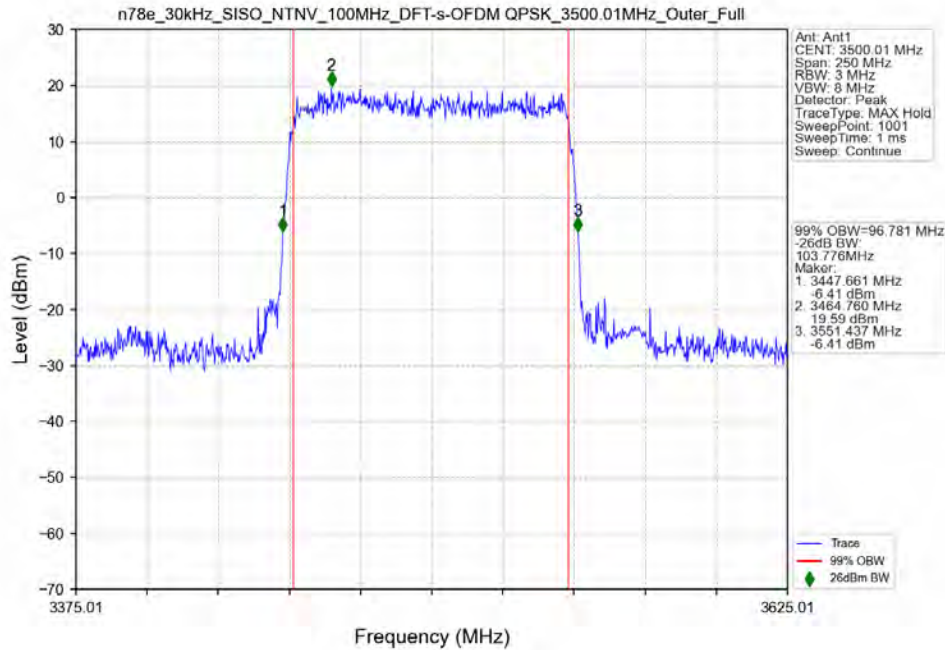
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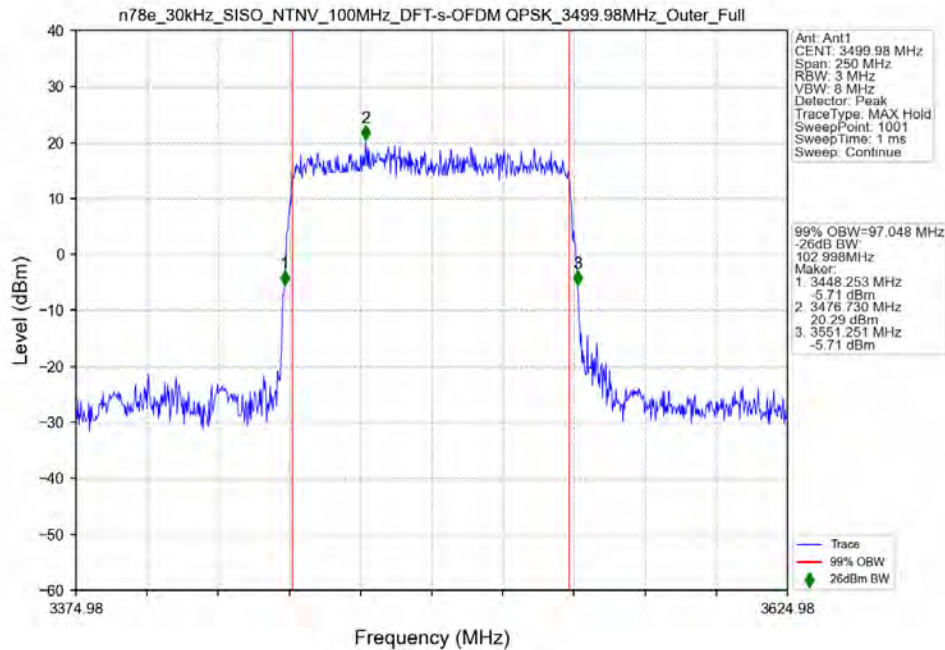


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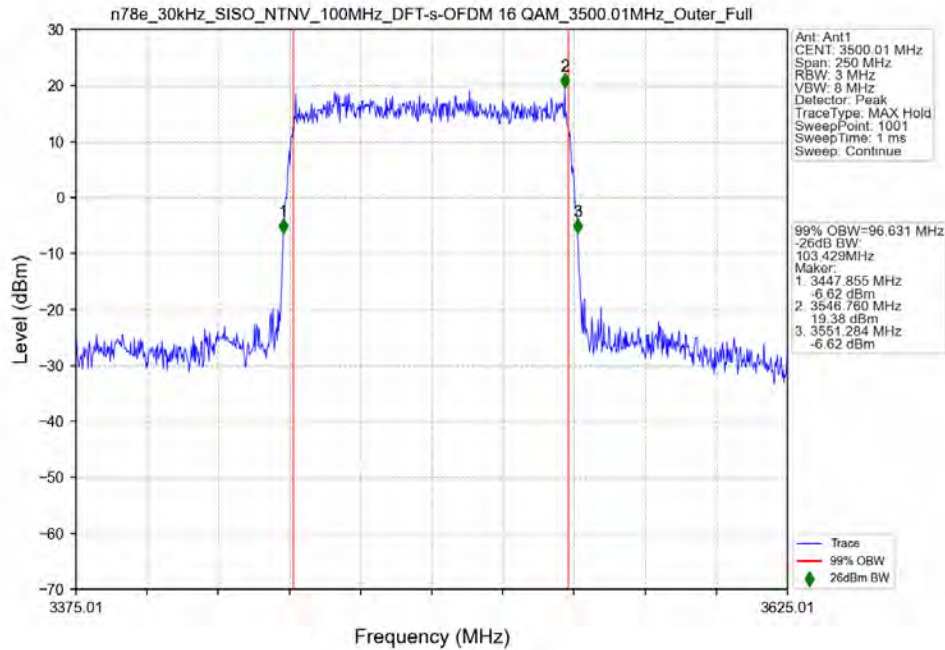
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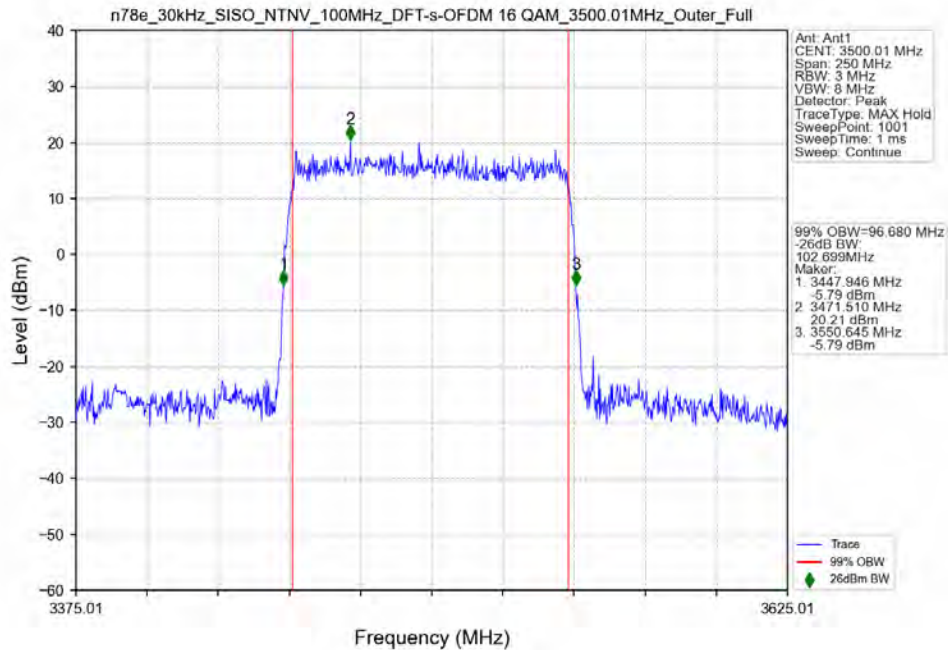


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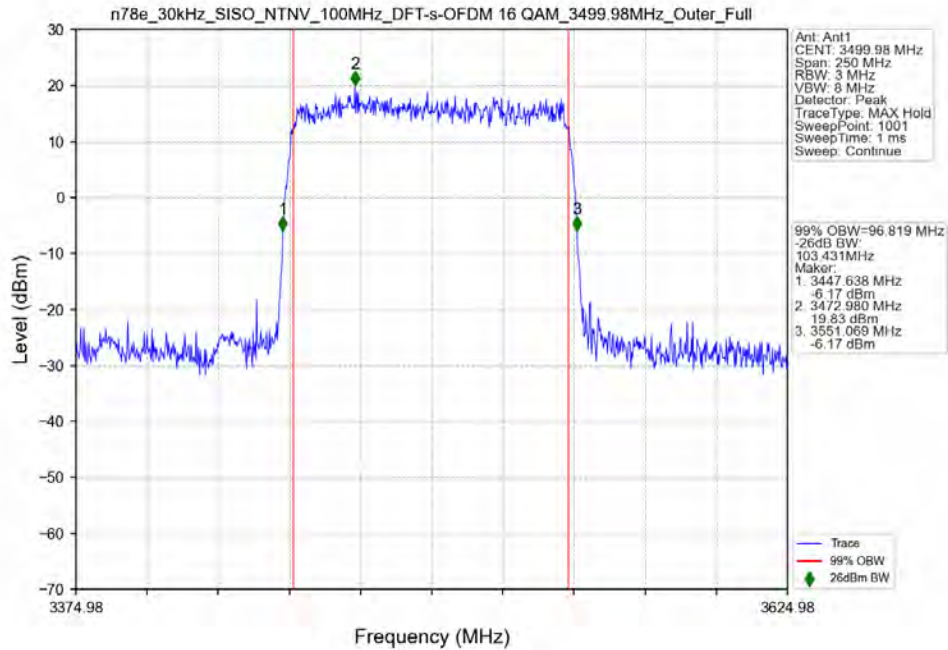
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n78e_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM 64 QAM_3500.01MHz_Outer_Full



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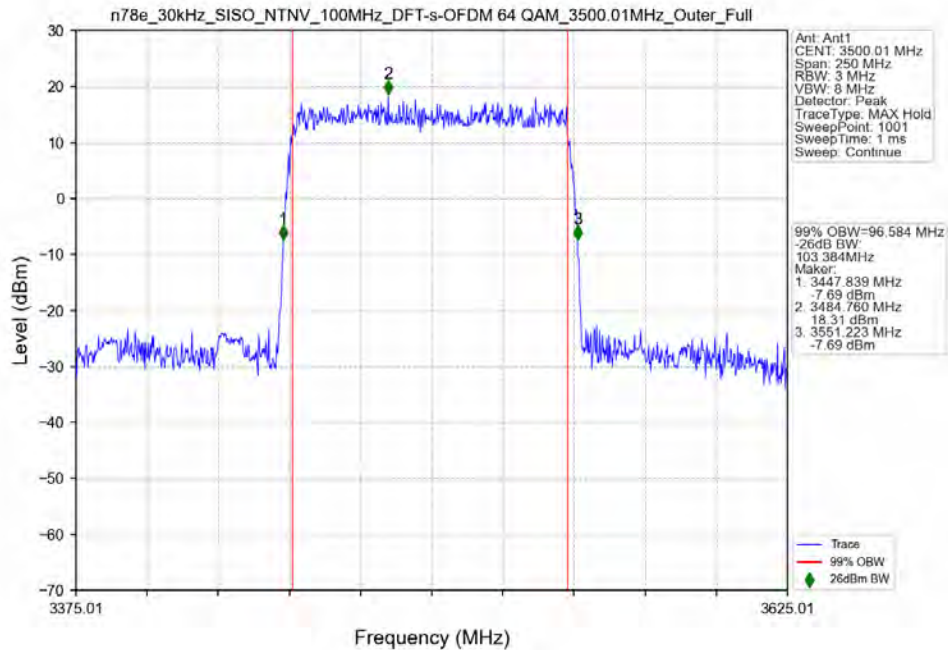


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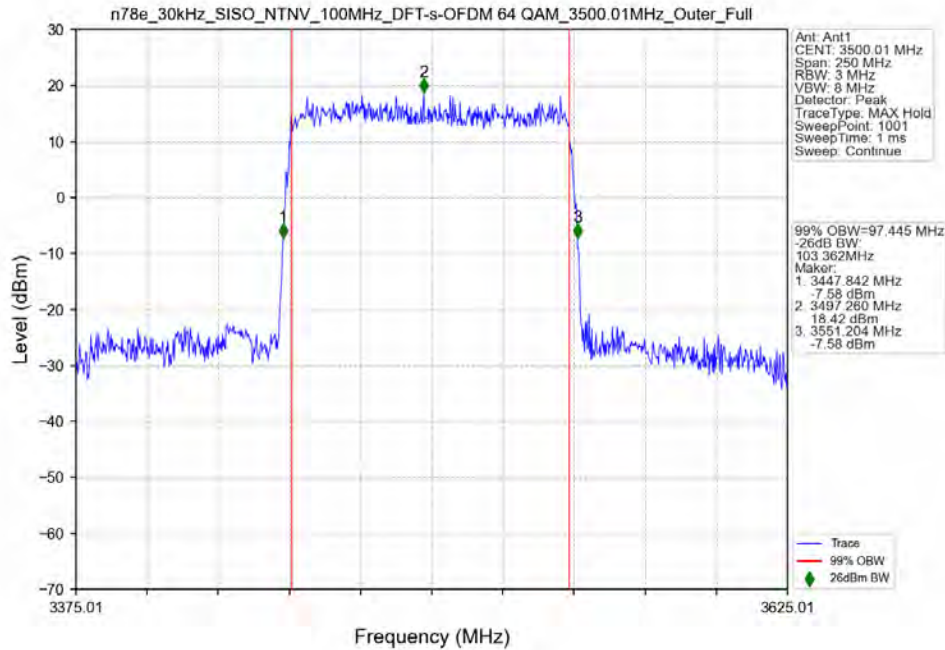
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n78e_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM 64 QAM_3499.98MHz_Outer_Full



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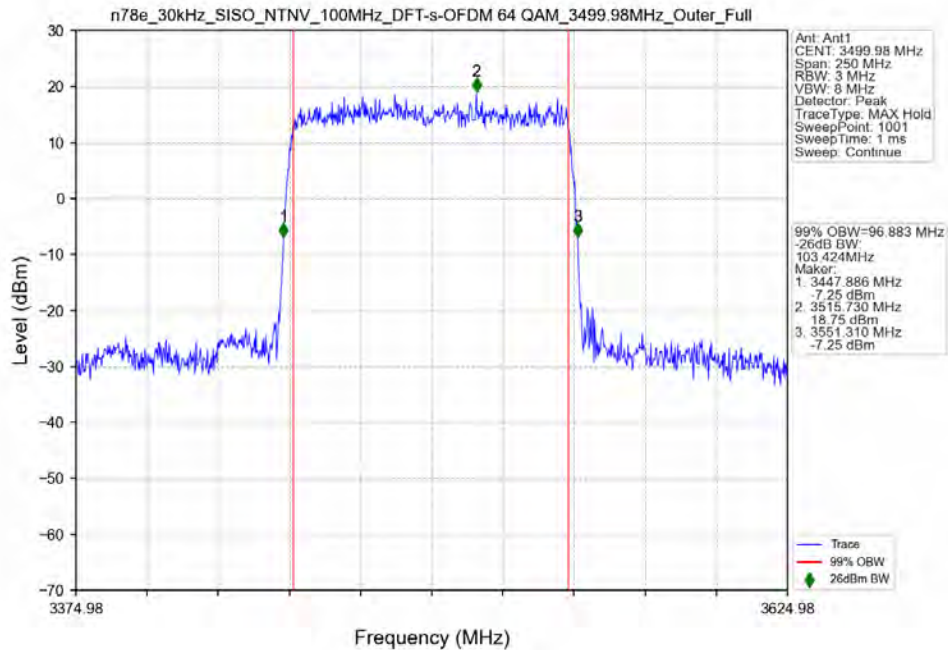


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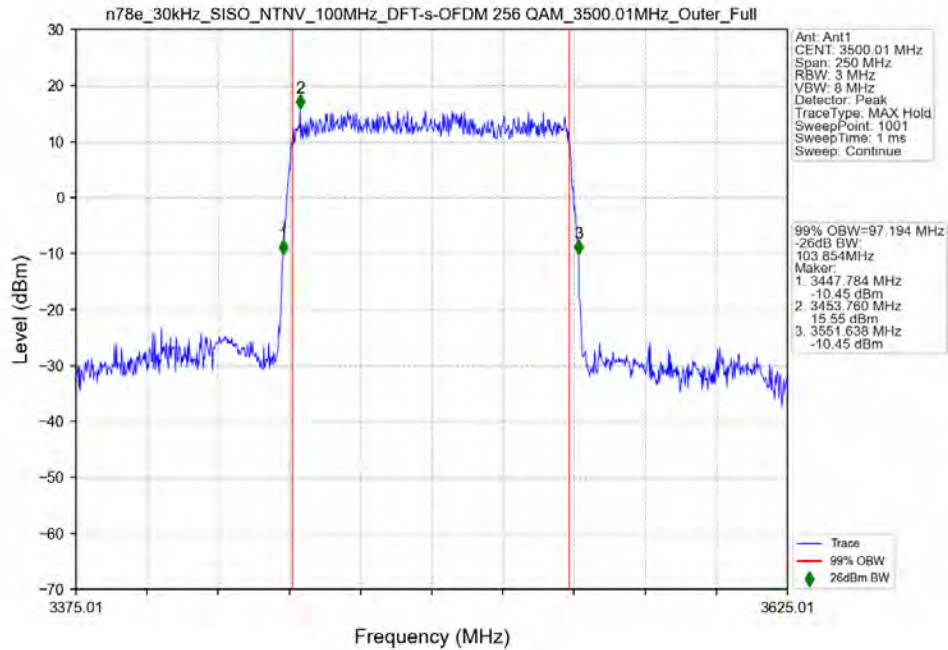
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n78e_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM 256 QAM_3500.01MHz_Outer_Full



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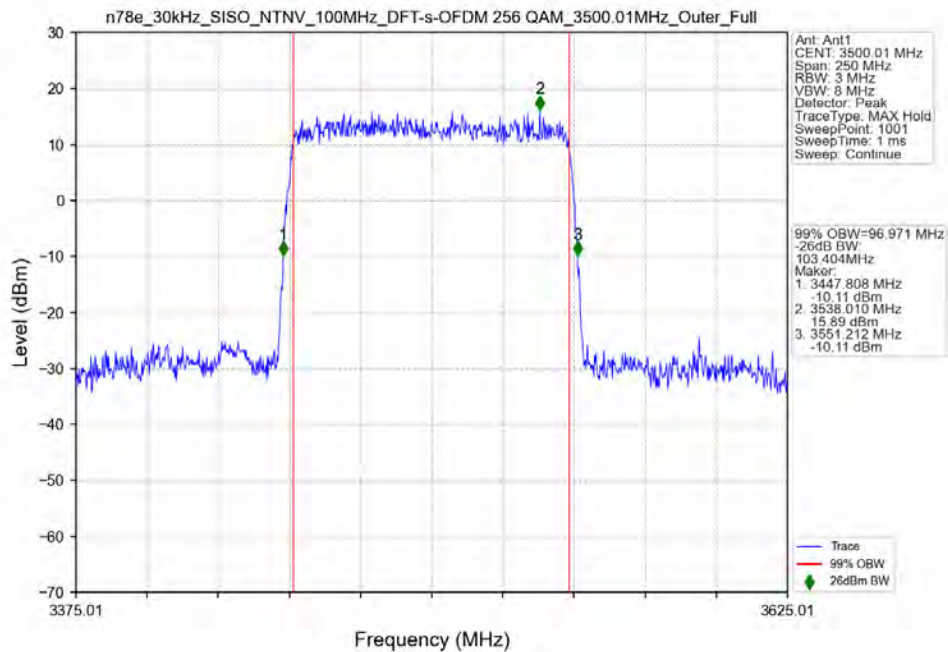


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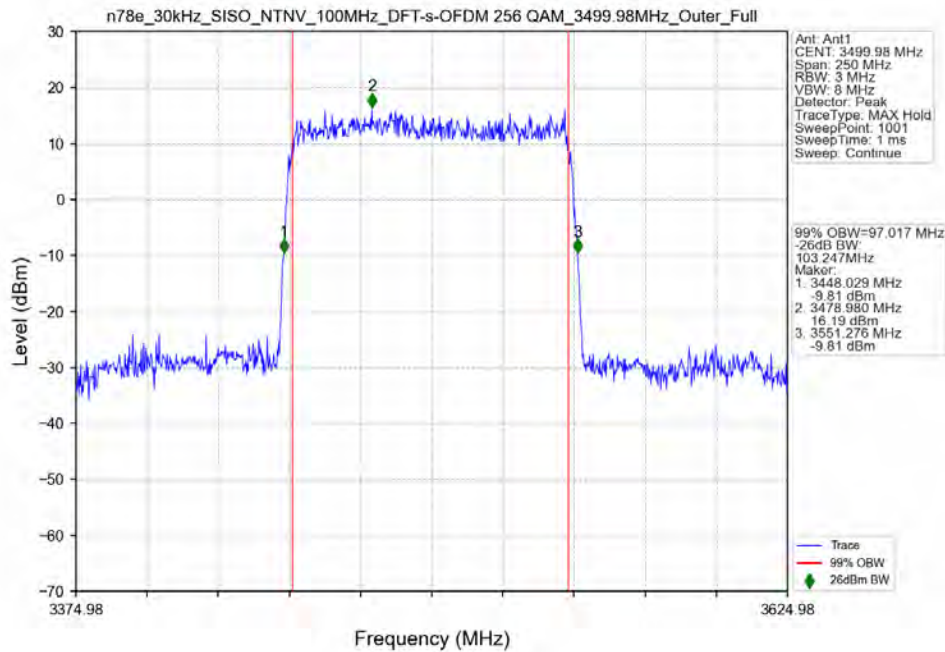
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n78e_30kHz_SISO_NTNV_100MHz_CP-OFDM QPSK 3500.01MHz_Outer_Full



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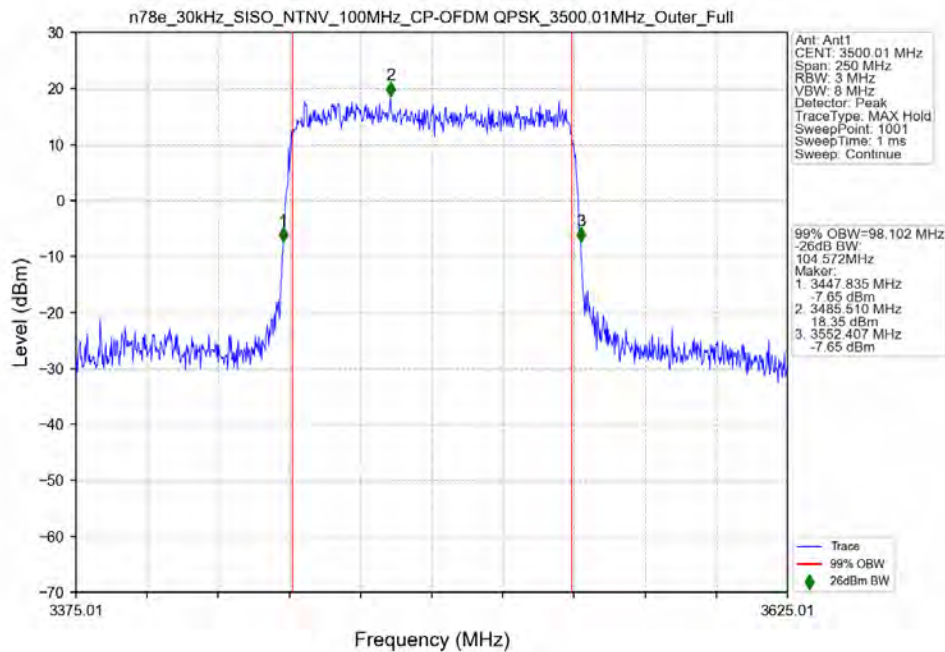


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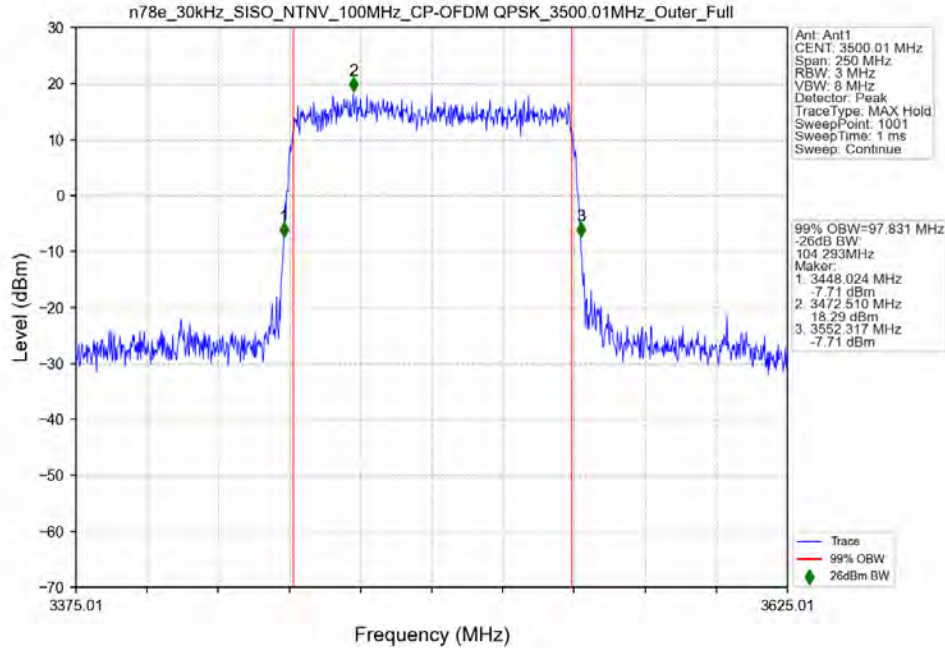
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n78e_30kHz_SISO_NTNV_100MHz_CP-OFDM QPSK_3499.98MHz_Outer_Full



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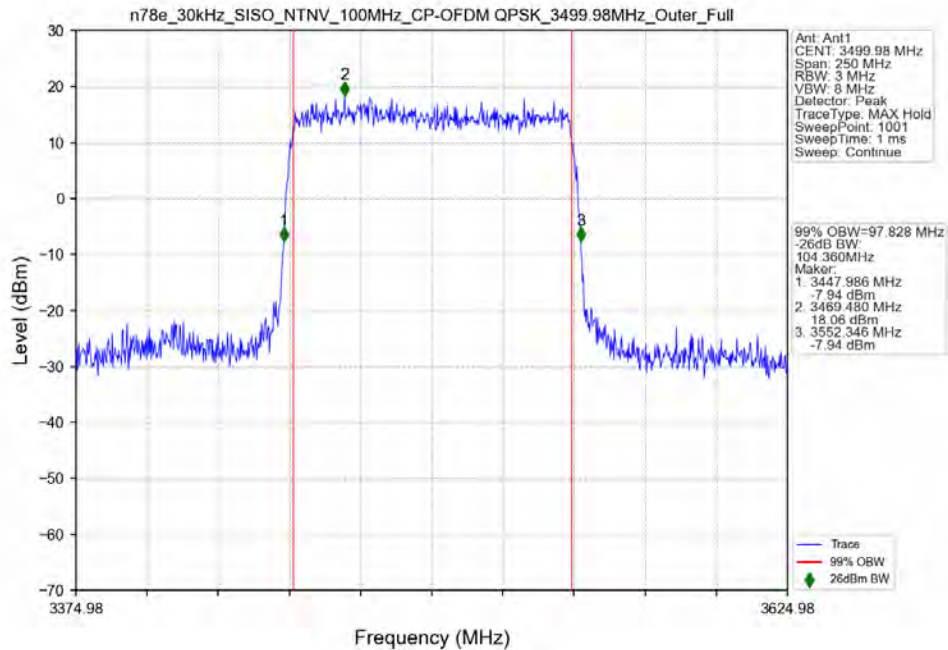


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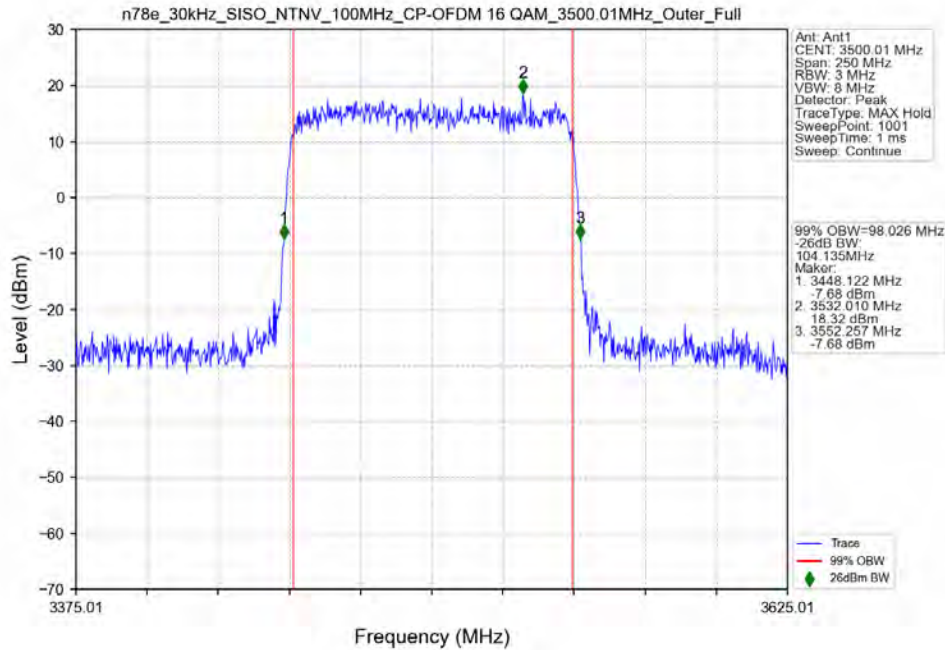
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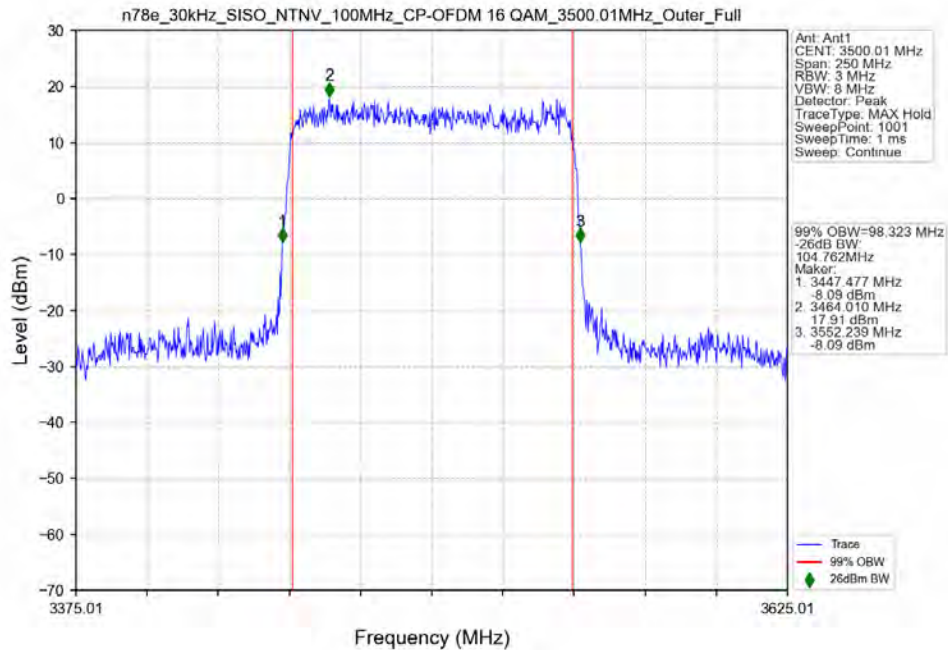


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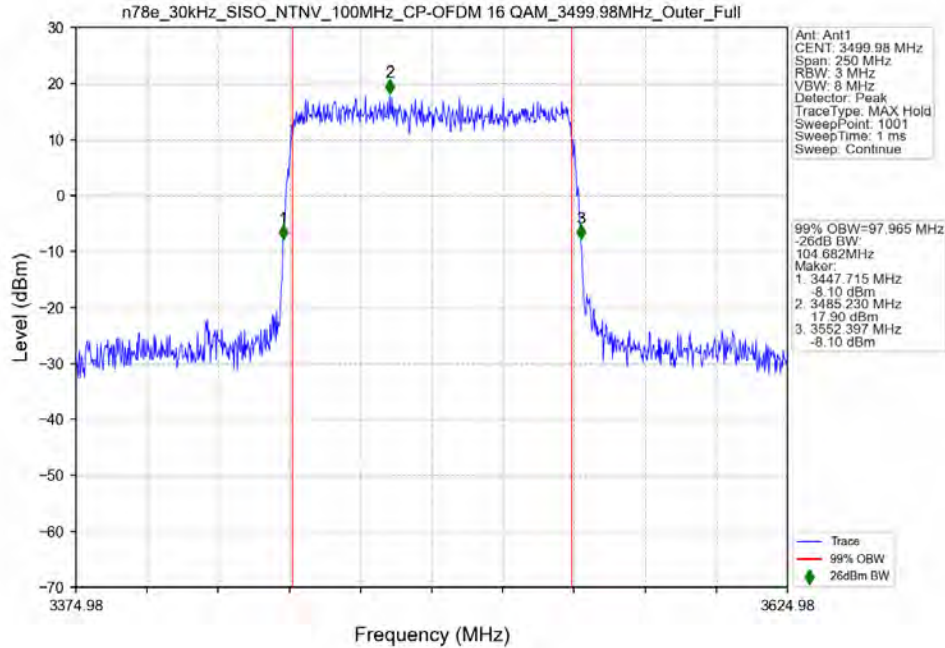
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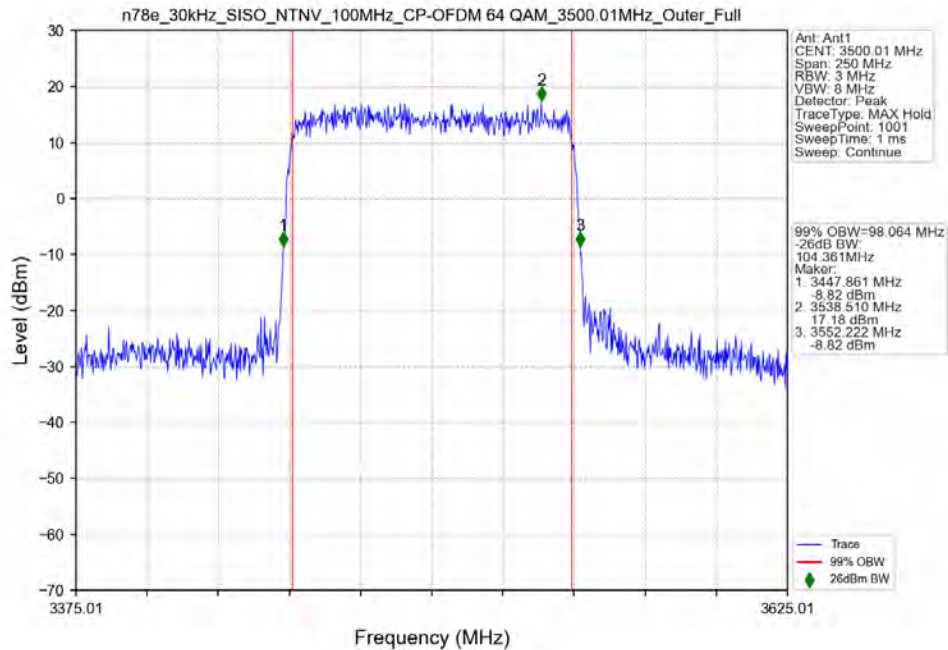


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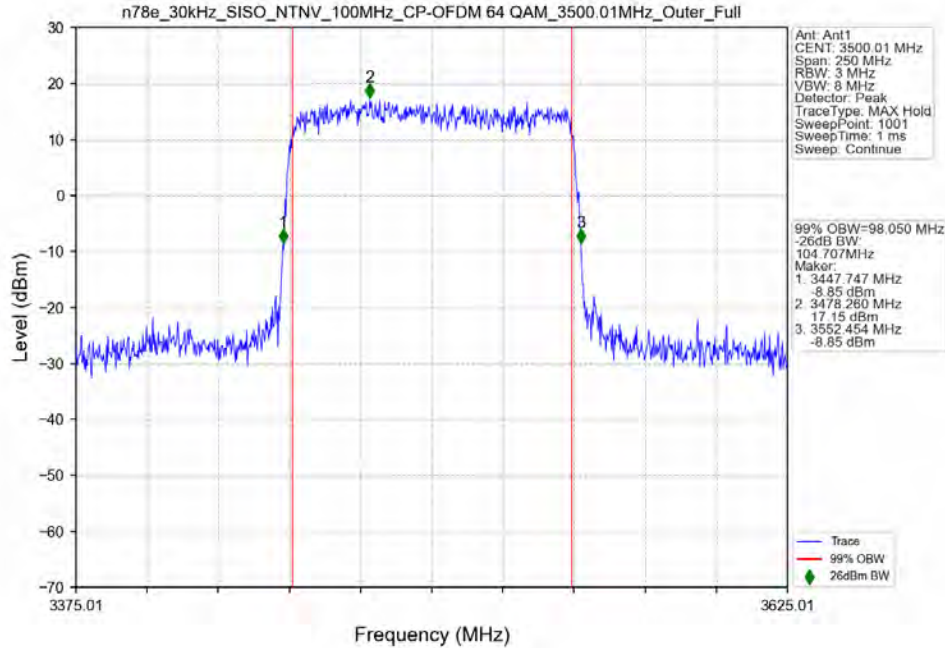
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n78e_30kHz_SISO_NTNV_100MHz_CP-OFDM 64 QAM_3500.01MHz_Outer_Full



n78e_30kHz_SISO_NTNV_100MHz_CP-OFDM 64 QAM_3499.98MHz_Outer_Full



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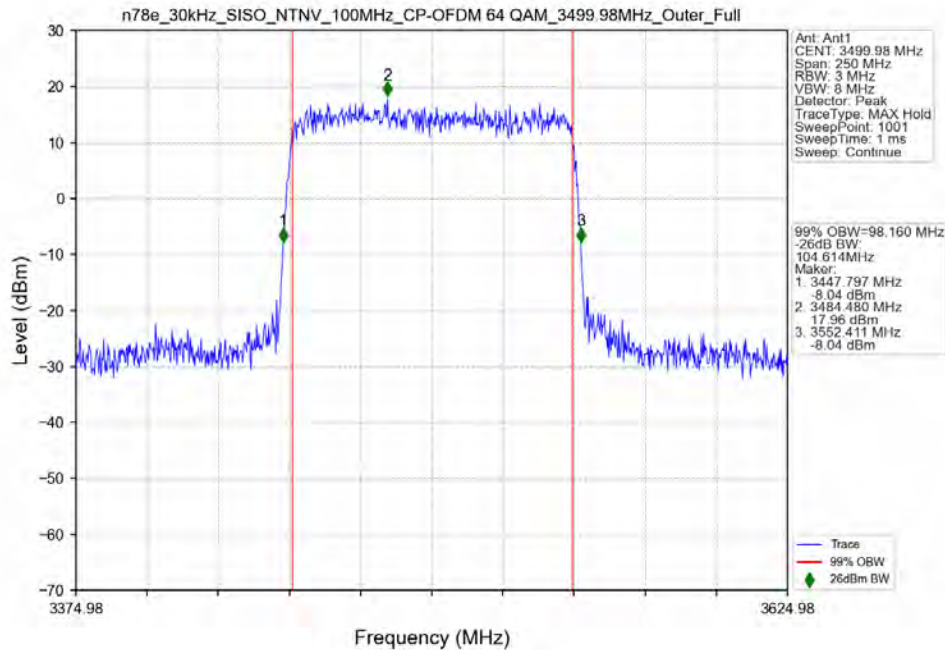


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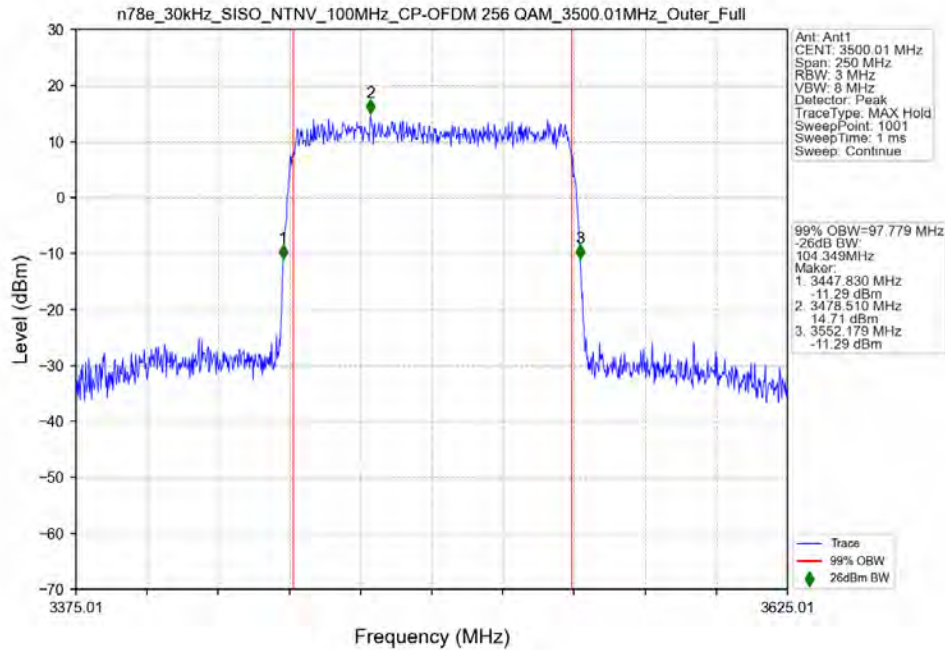
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n78e_30kHz_SISO_NTNV_100MHz_CP-OFDM 256 QAM 3500.01MHz_Outer_Full



n78e_30kHz_SISO_NTNV_100MHz_CP-OFDM 256 QAM 3500.01MHz_Outer_Full



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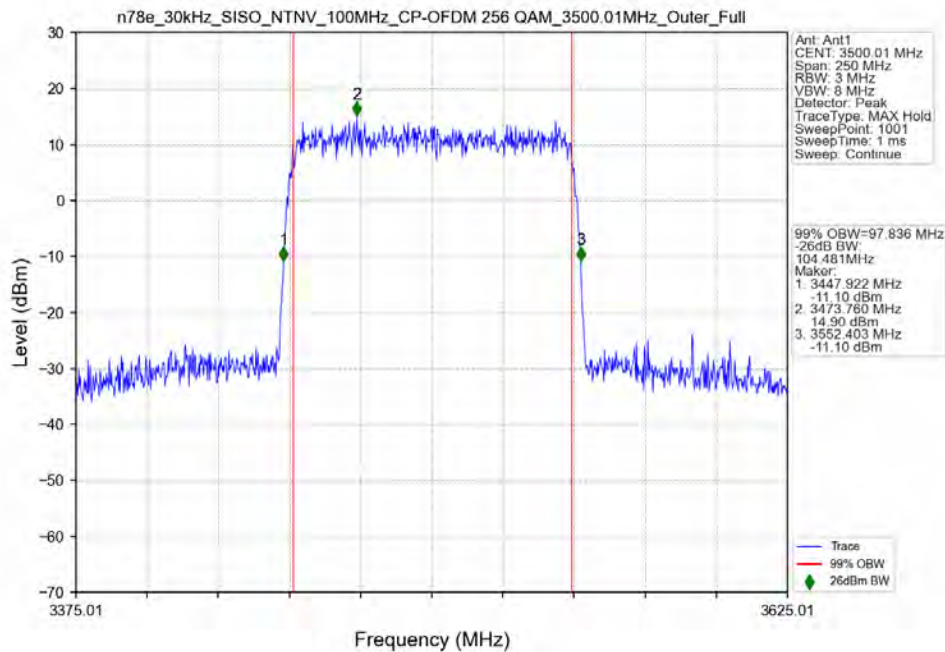


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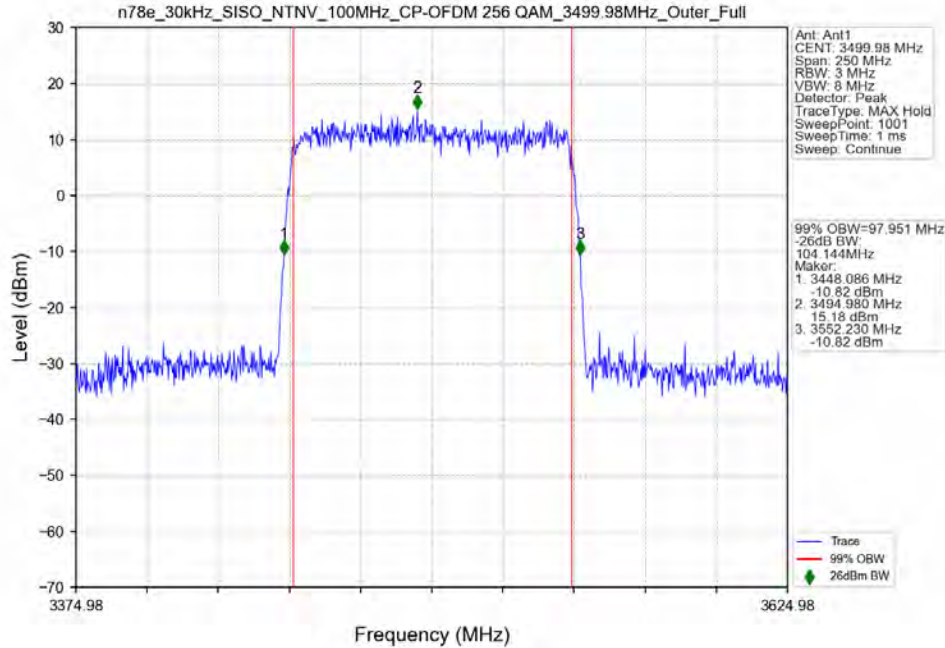
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n78e_30kHz_SISO_NTNV_100MHz_CP-OFDM 256 QAM 3499.98MHz_Outer_Full



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4. Peak-Average Ratio

4.1 30k_SISO_20MHz_NTNV

4.1.1 Test Result

5G NR n78e SCS=30kHz SISO 20MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant4	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3460.02	Outer_Full	7.84	/	/	<=13	Pass
	3500.01	Outer_Full	8.14	/	/	<=13	Pass
	3540	Outer_Full	8.01	/	/	<=13	Pass
DFT-s-OFDM QPSK	3460.02	Outer_Full	8.96	/	/	<=13	Pass
	3500.01	Outer_Full	8.75	/	/	<=13	Pass
	3540	Outer_Full	9.34	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3460.02	Outer_Full	10.02	/	/	<=13	Pass
	3500.01	Outer_Full	10.61	/	/	<=13	Pass
	3540	Outer_Full	10.45	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3460.02	Outer_Full	9.74	/	/	<=13	Pass
	3500.01	Outer_Full	9.81	/	/	<=13	Pass
	3540	Outer_Full	9.91	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3460.02	Outer_Full	10.13	/	/	<=13	Pass
	3500.01	Outer_Full	10.28	/	/	<=13	Pass
	3540	Outer_Full	9.90	/	/	<=13	Pass
CP-OFDM QPSK	3460.02	Outer_Full	11.10	/	/	<=13	Pass
	3500.01	Outer_Full	10.65	/	/	<=13	Pass
	3540	Outer_Full	10.94	/	/	<=13	Pass
CP-OFDM 16 QAM	3460.02	Outer_Full	11.62	/	/	<=13	Pass
	3500.01	Outer_Full	11.67	/	/	<=13	Pass
	3540	Outer_Full	10.82	/	/	<=13	Pass
CP-OFDM 64 QAM	3460.02	Outer_Full	10.91	/	/	<=13	Pass
	3500.01	Outer_Full	11.56	/	/	<=13	Pass
	3540	Outer_Full	11.76	/	/	<=13	Pass
CP-OFDM 256 QAM	3460.02	Outer_Full	12.14	/	/	<=13	Pass
	3500.01	Outer_Full	11.85	/	/	<=13	Pass
	3540	Outer_Full	11.58	/	/	<=13	Pass



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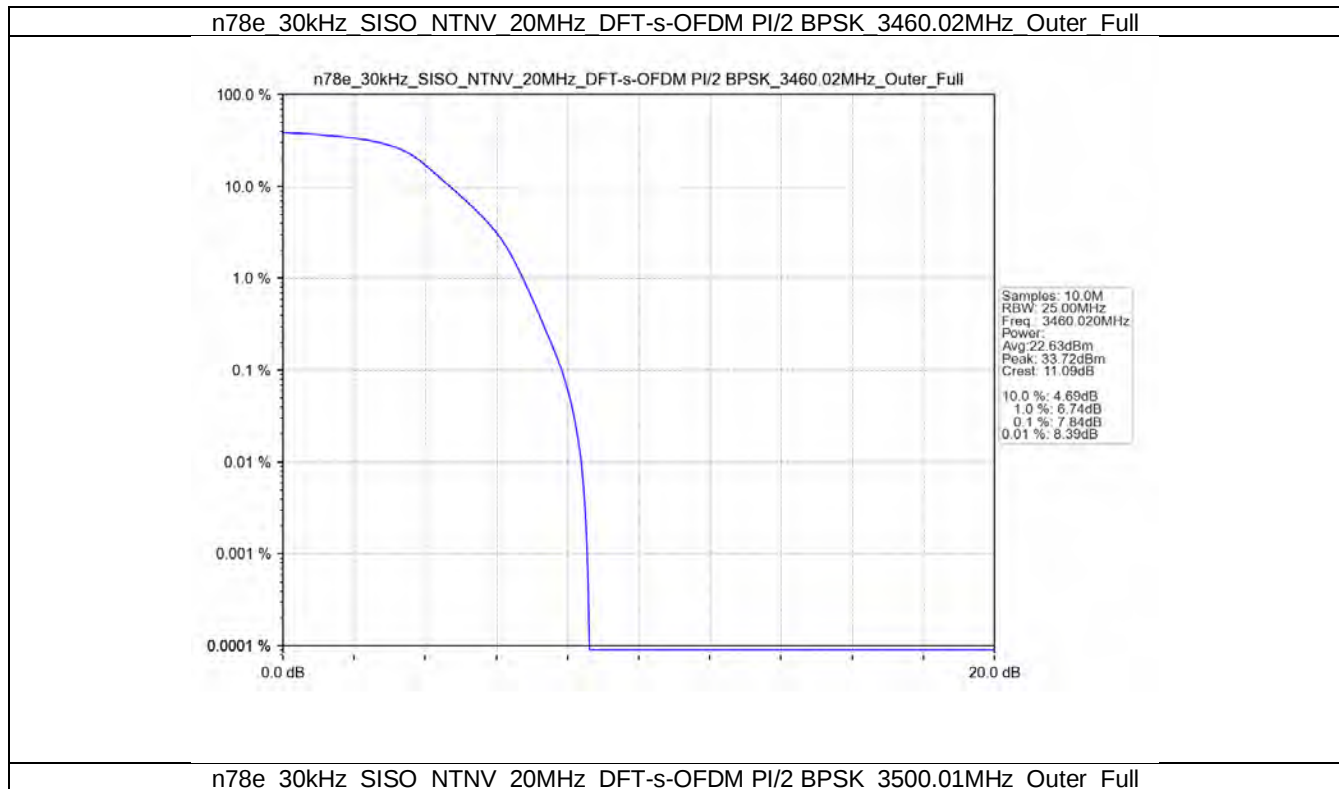
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4.1.2 Test Graph



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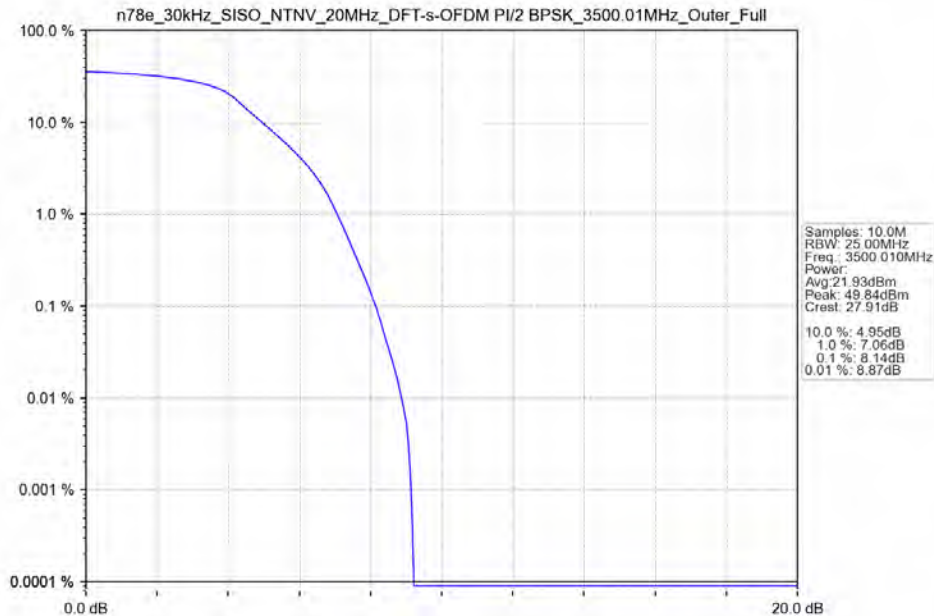


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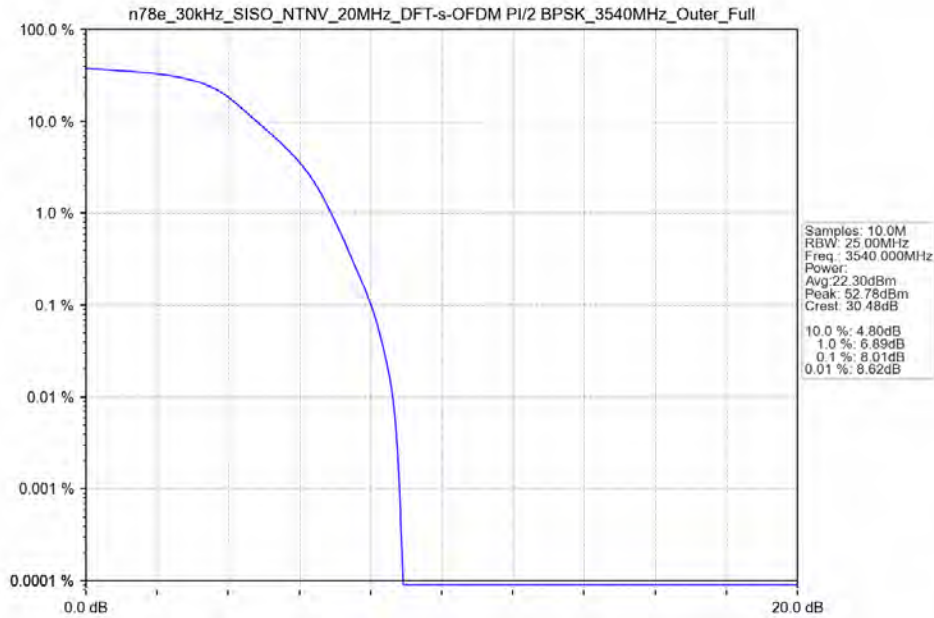
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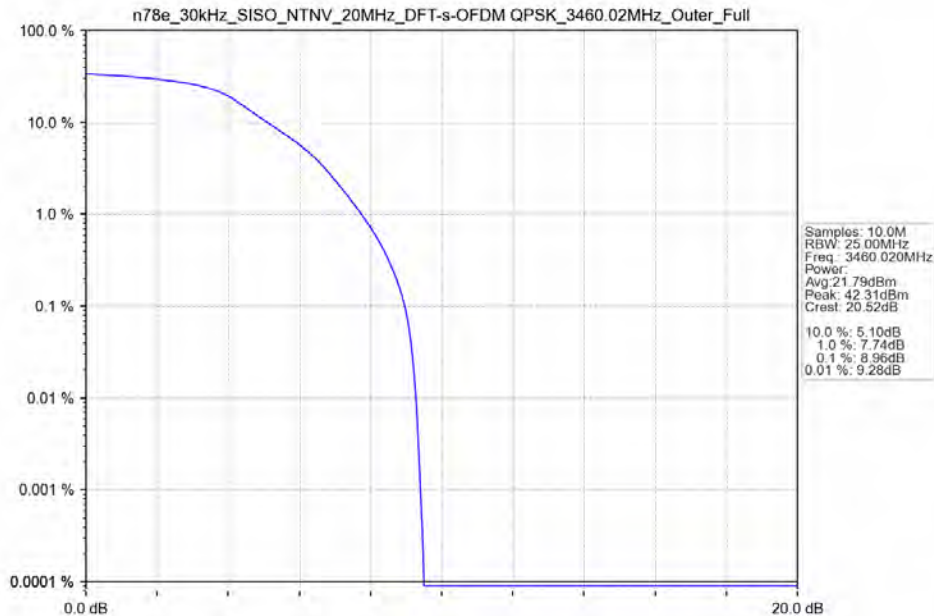


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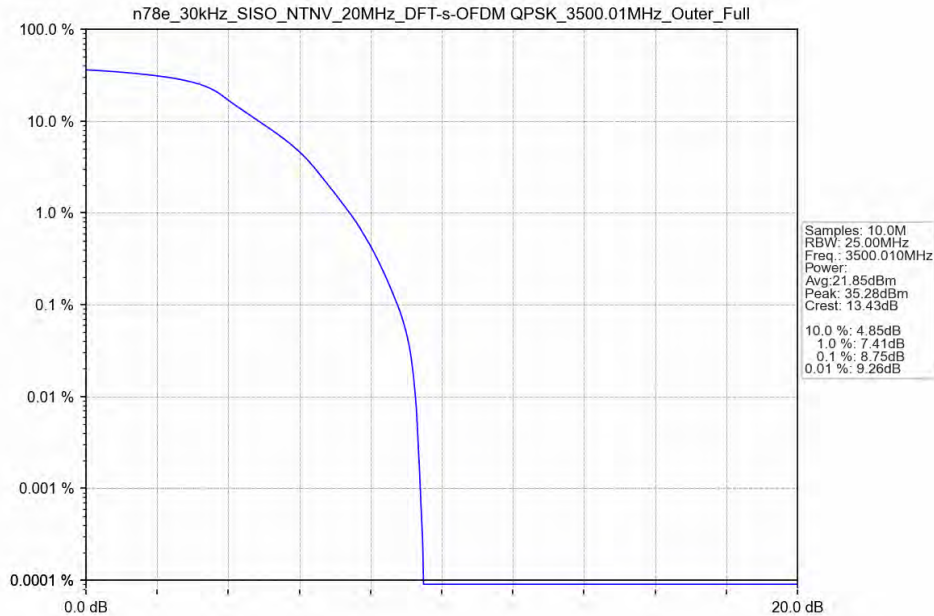
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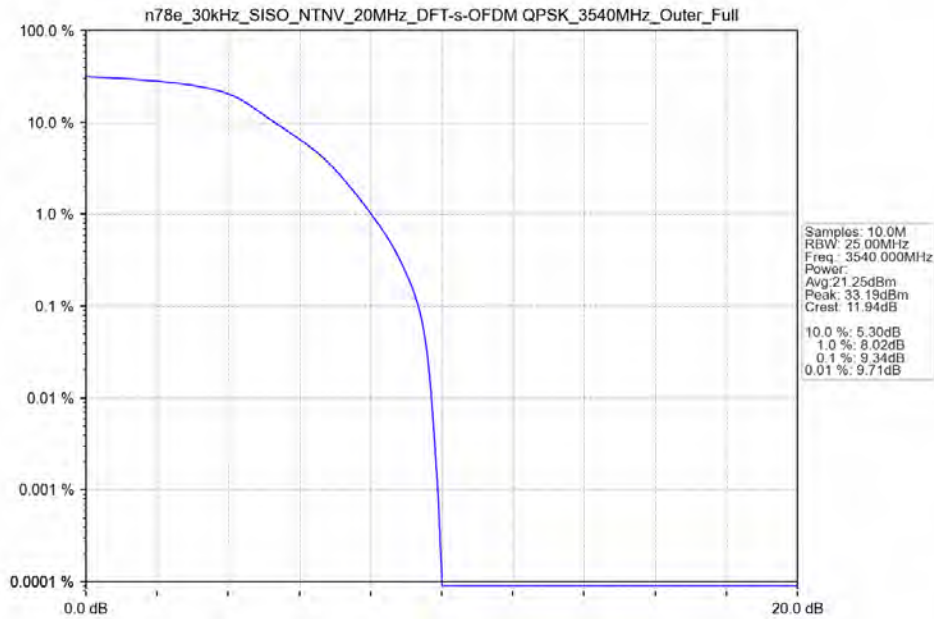


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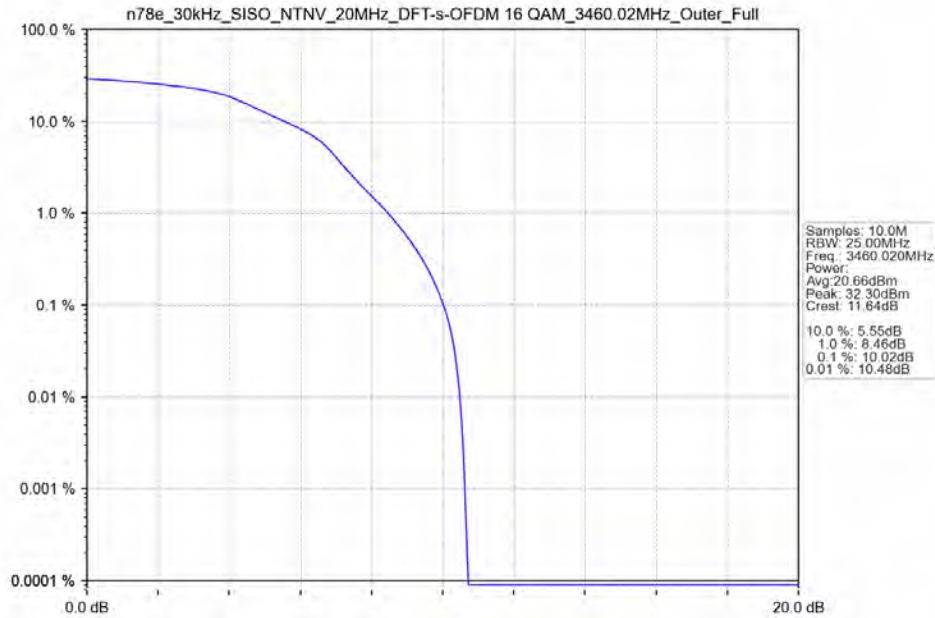
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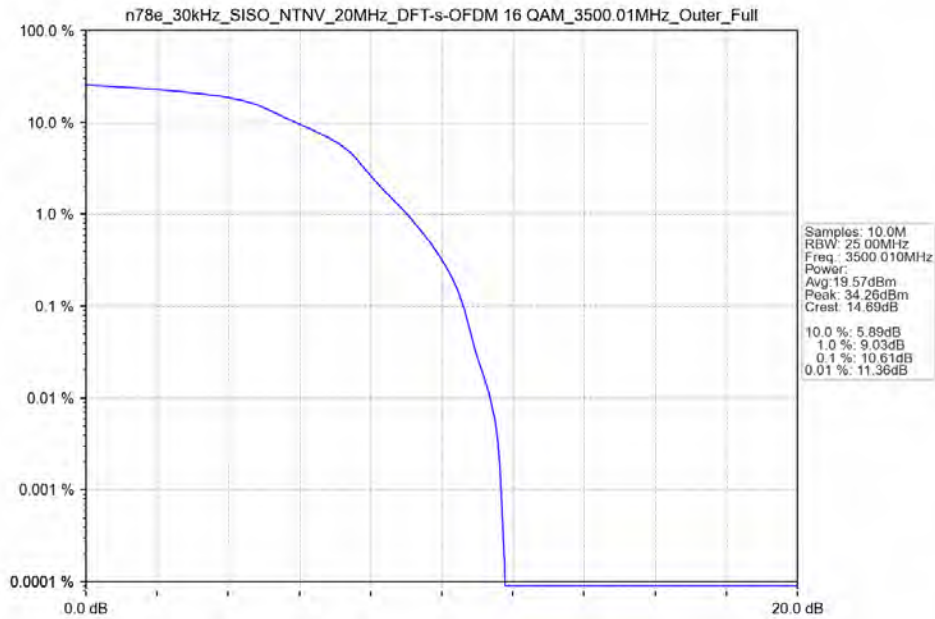


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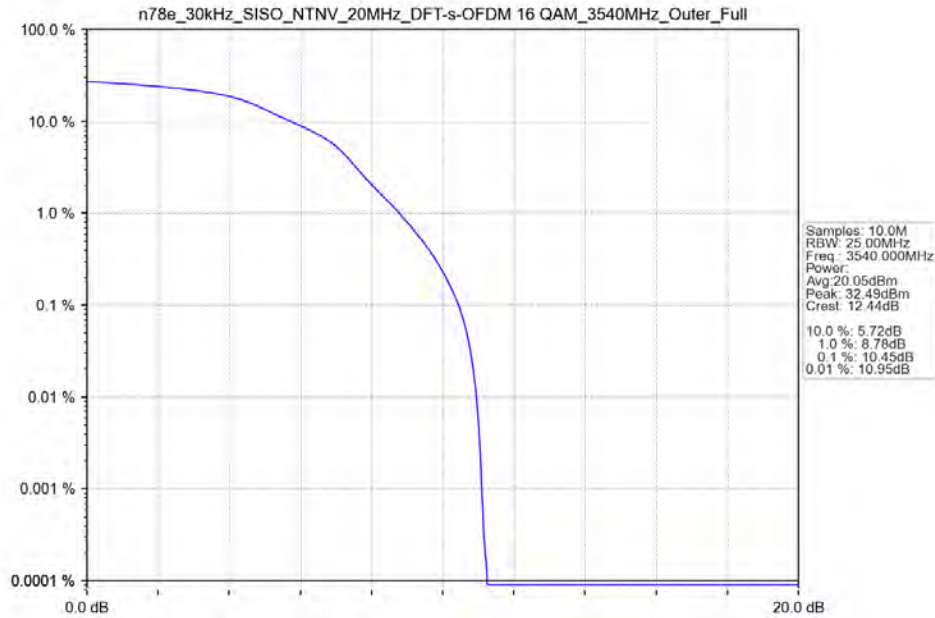
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n78e_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 64 QAM_3460.02MHz_Outer_Full



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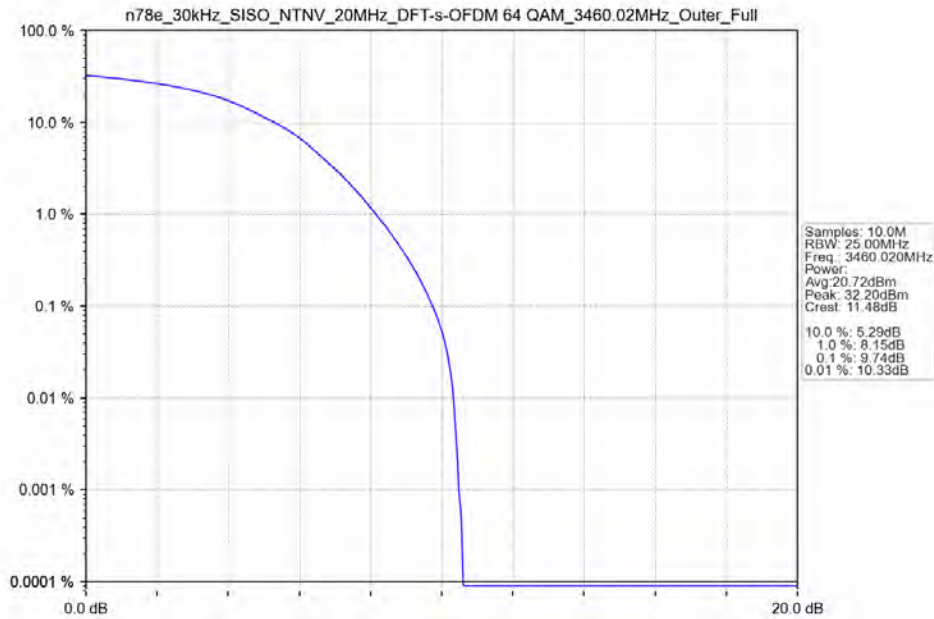


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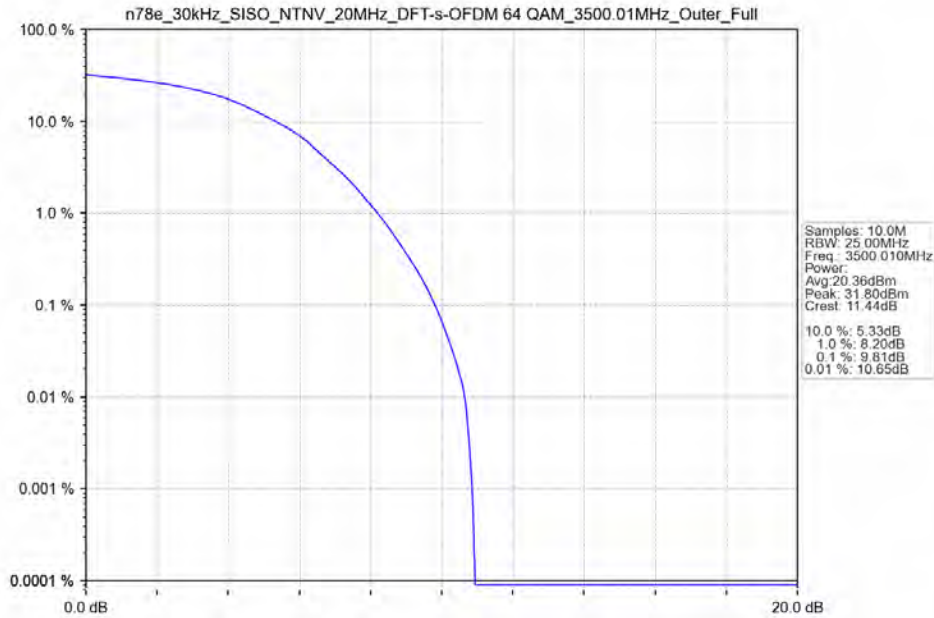
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n78e_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 64 QAM_3540MHz_Outer_Full



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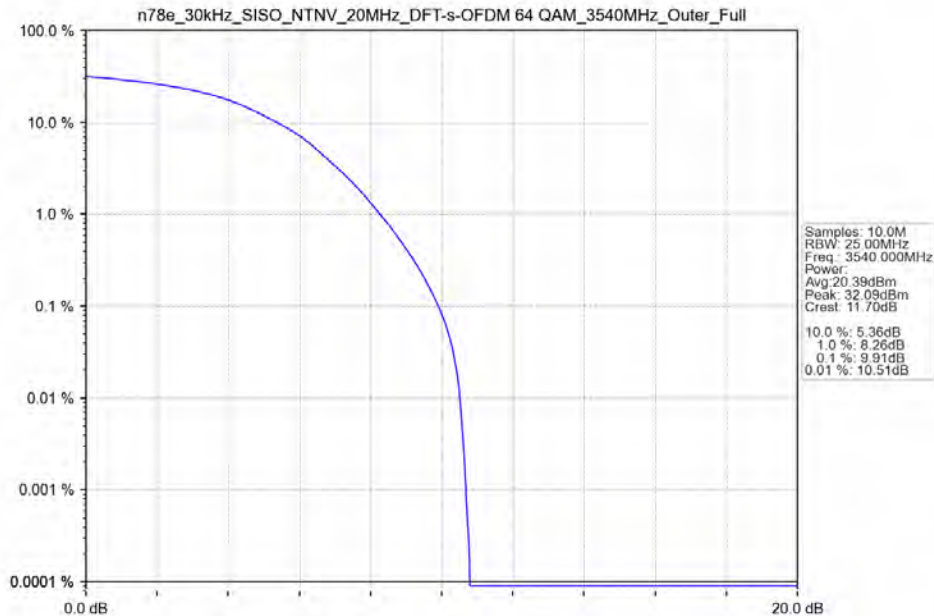


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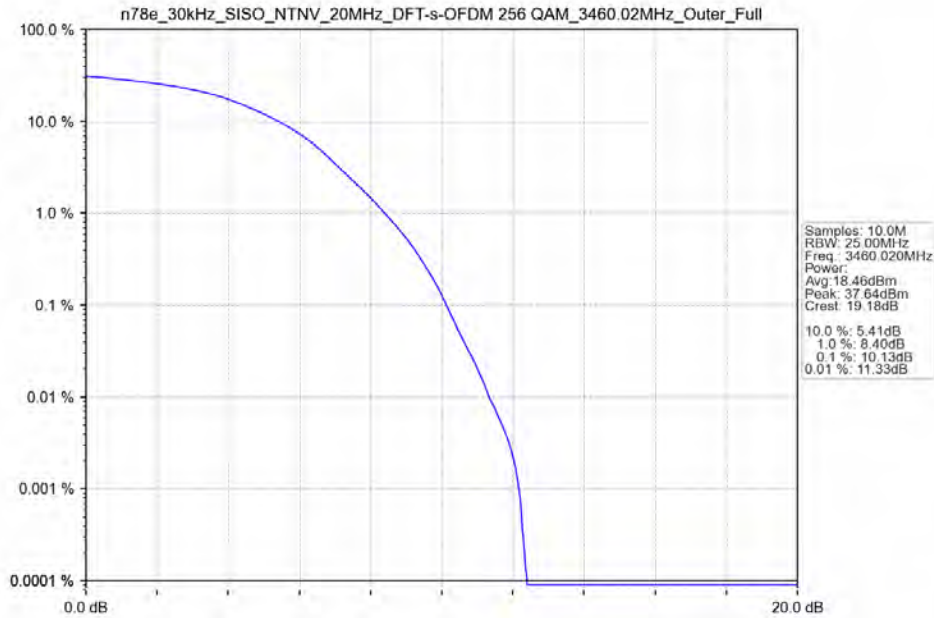
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n78e_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_256_QAM_3500.01MHz_Outer_Full



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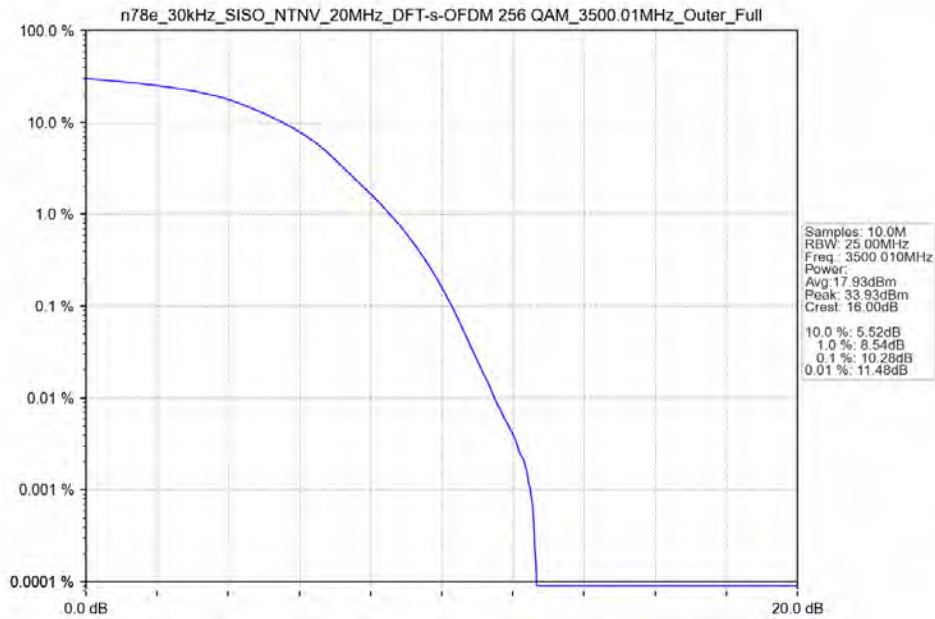


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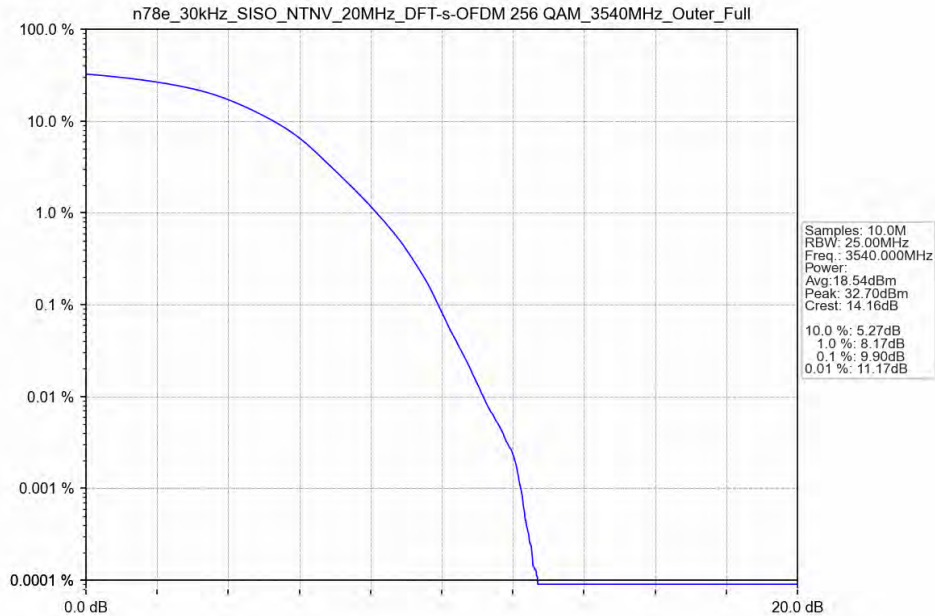
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n78e_30kHz_SISO_NTNV_20MHz_CP-OFDM_QPSK_3460.02MHz_Outer_Full



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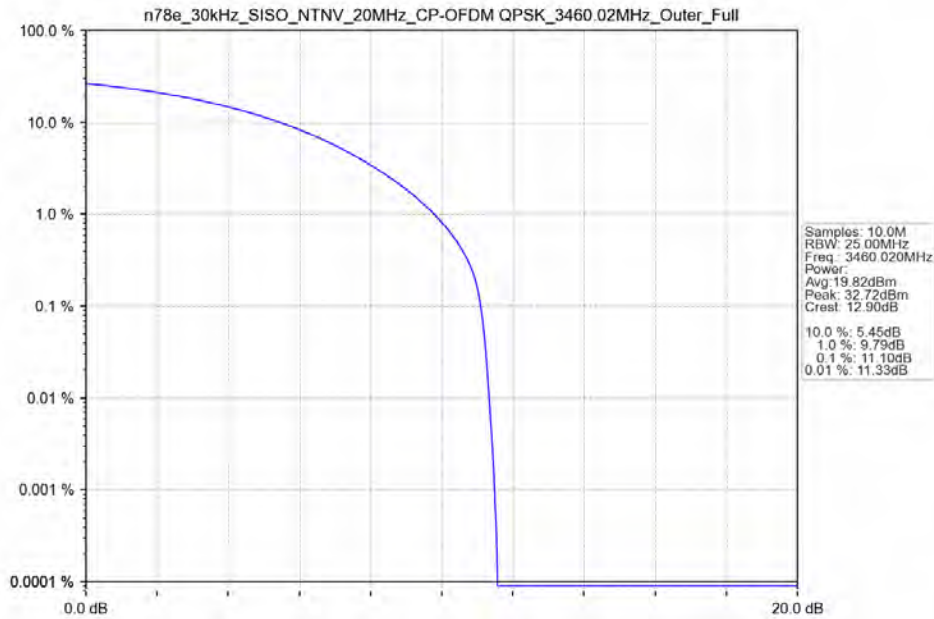


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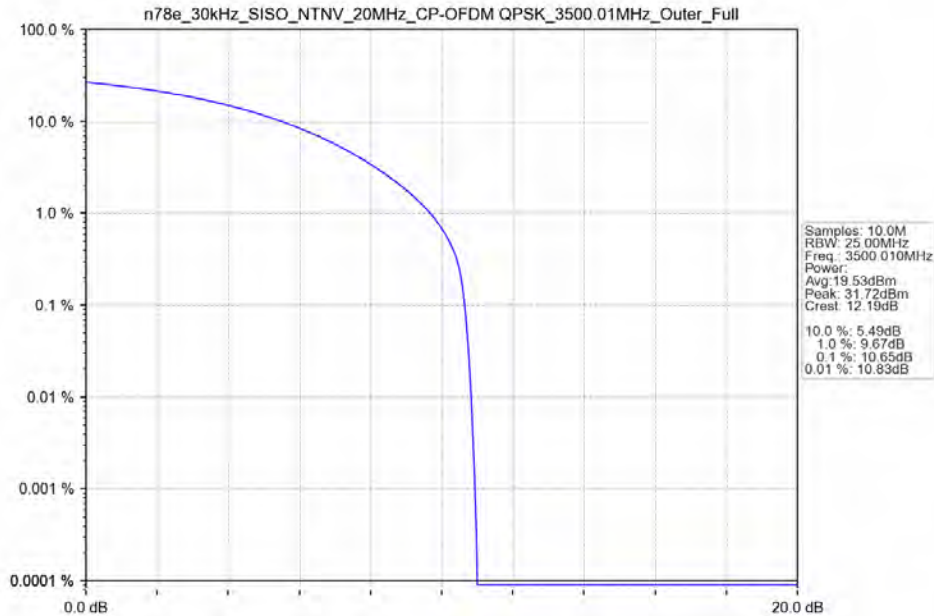
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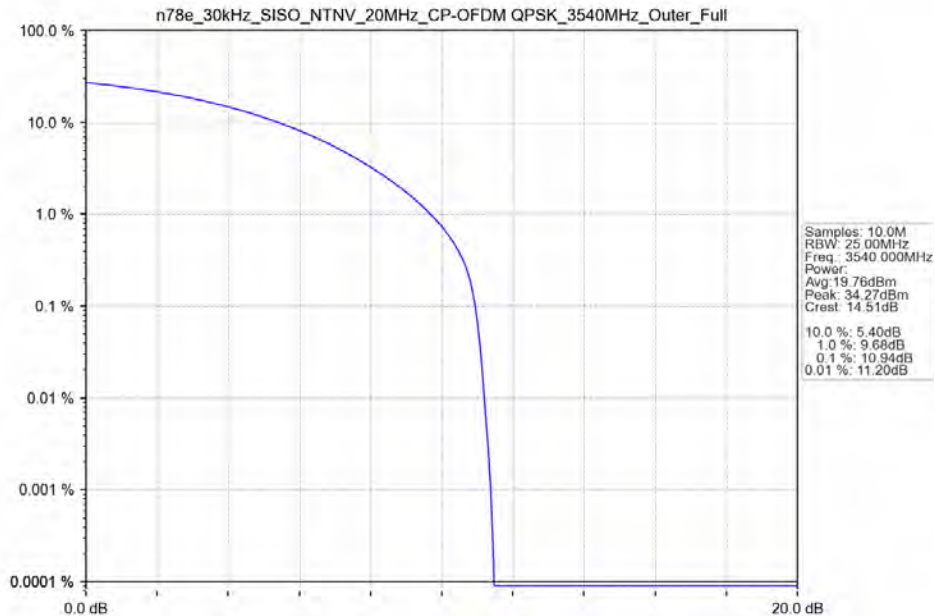


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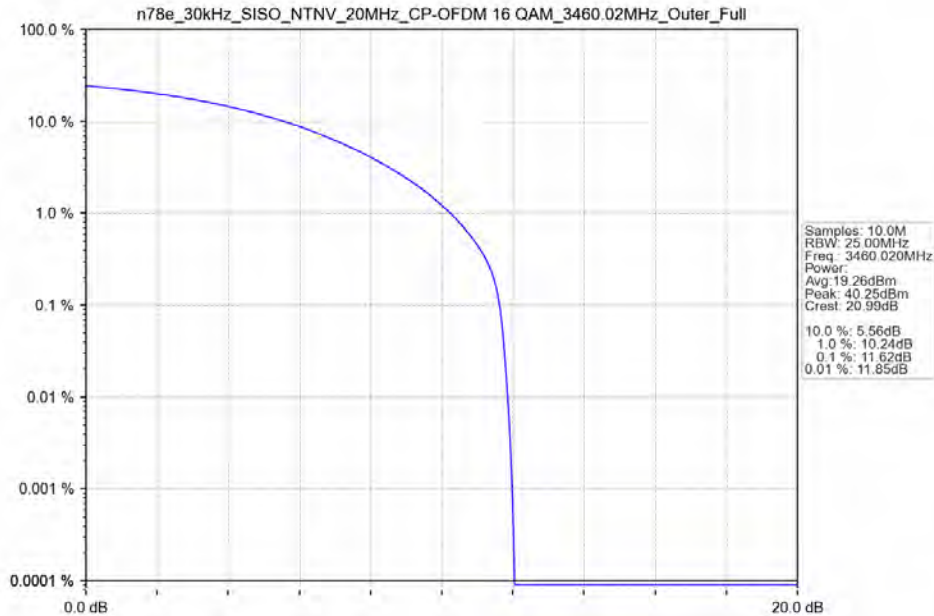
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n78e_30kHz_SISO_NTNV_20MHz_CP-OFDM 16 QAM_3500.01MHz_Outer_Full



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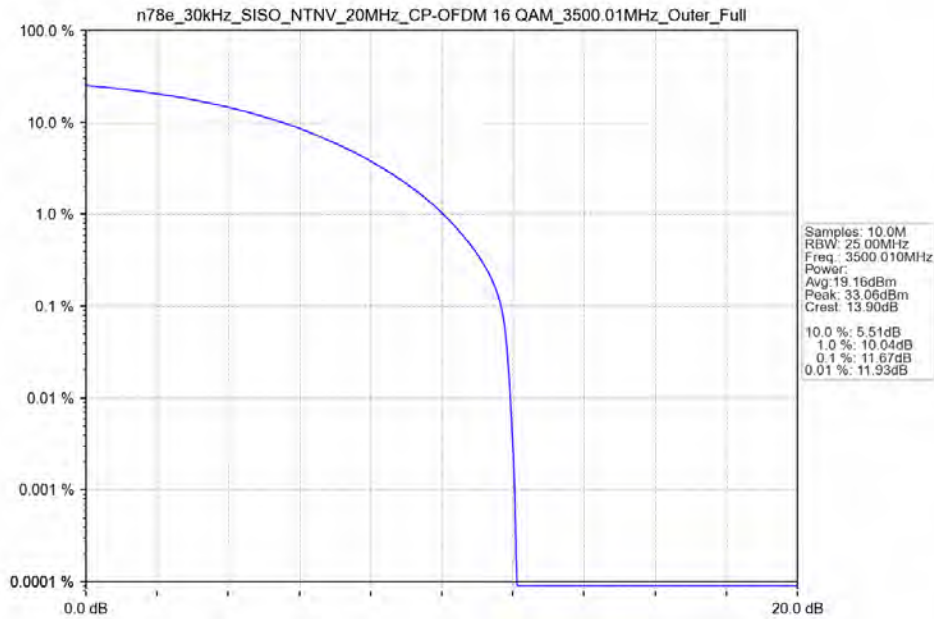


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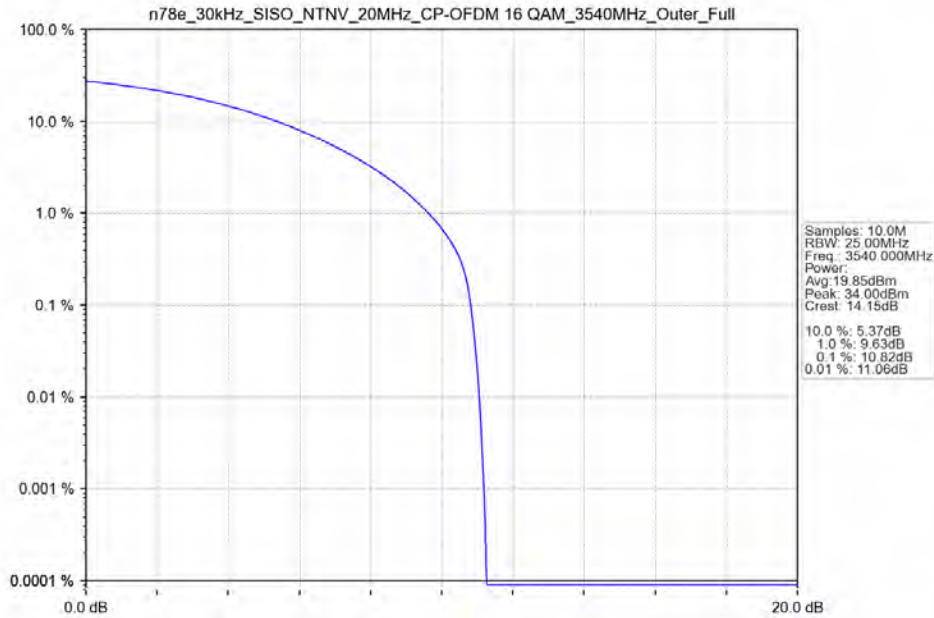
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n78e_30kHz_SISO_NTNV_20MHz_CP-OFDM 64 QAM_3460.02MHz_Outer_Full



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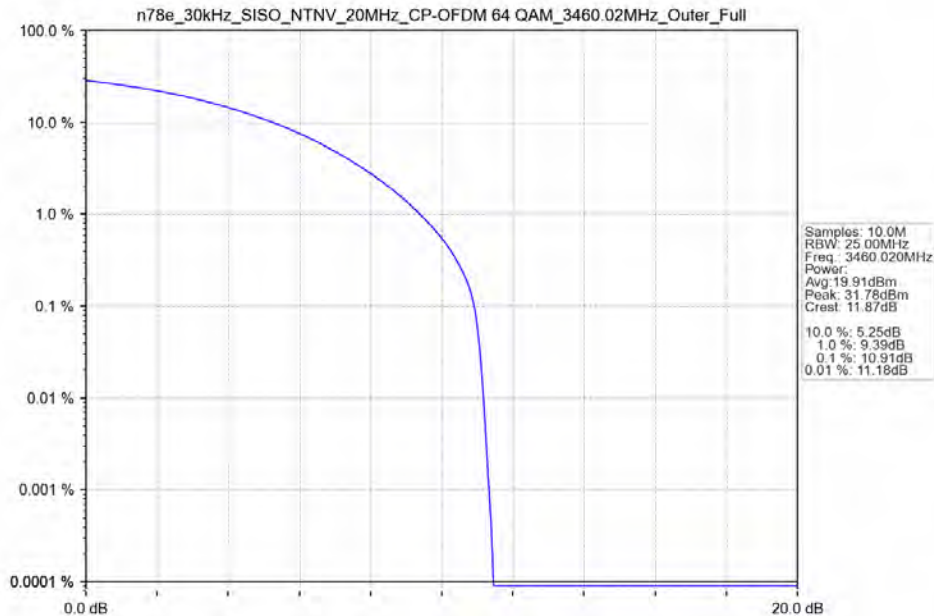


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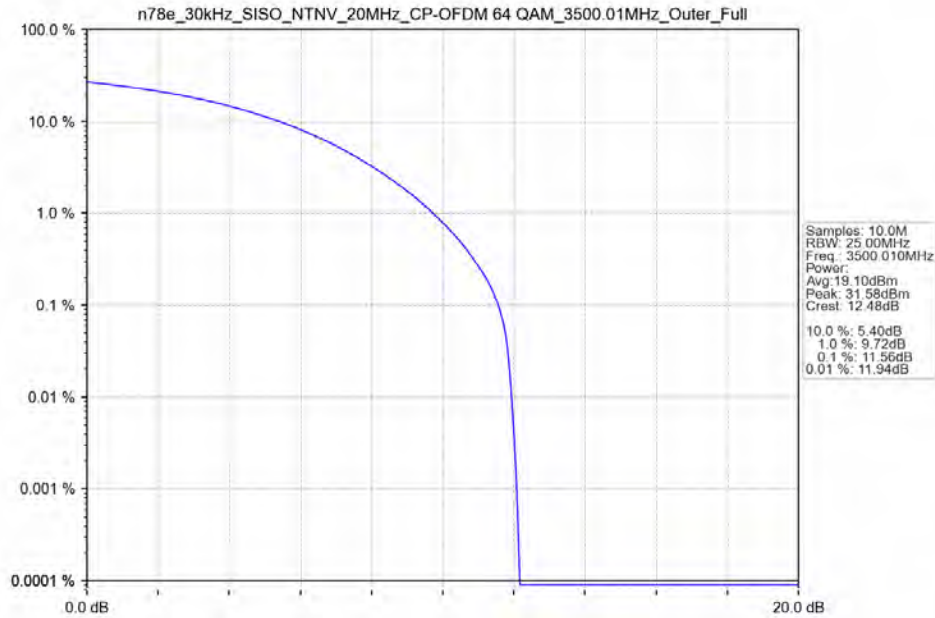
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n78e_30kHz_SISO_NTNV_20MHz_CP-OFDM 64 QAM_3500.01MHz_Outer_Full



n78e_30kHz_SISO_NTNV_20MHz_CP-OFDM 64 QAM_3540MHz_Outer_Full



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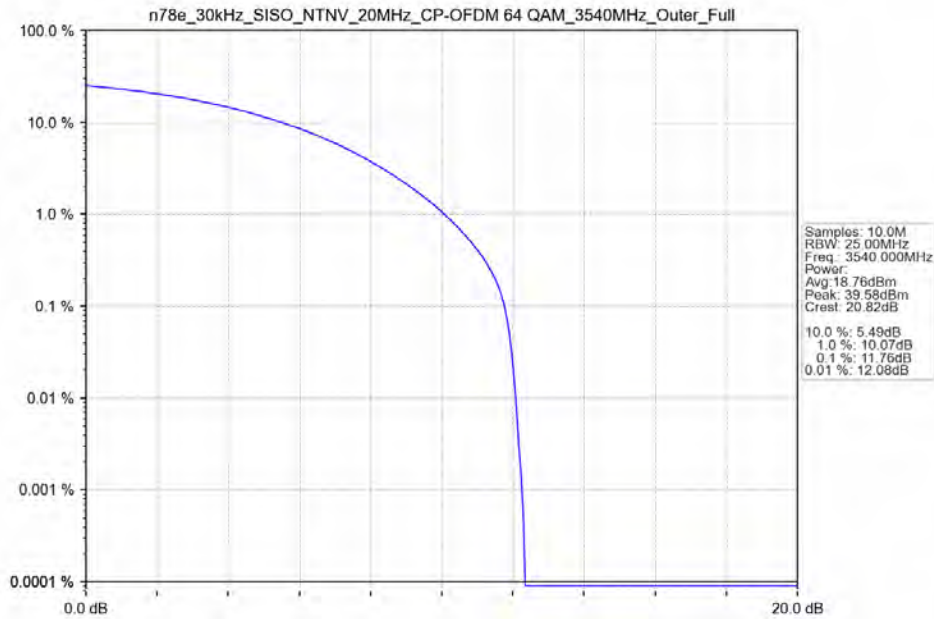


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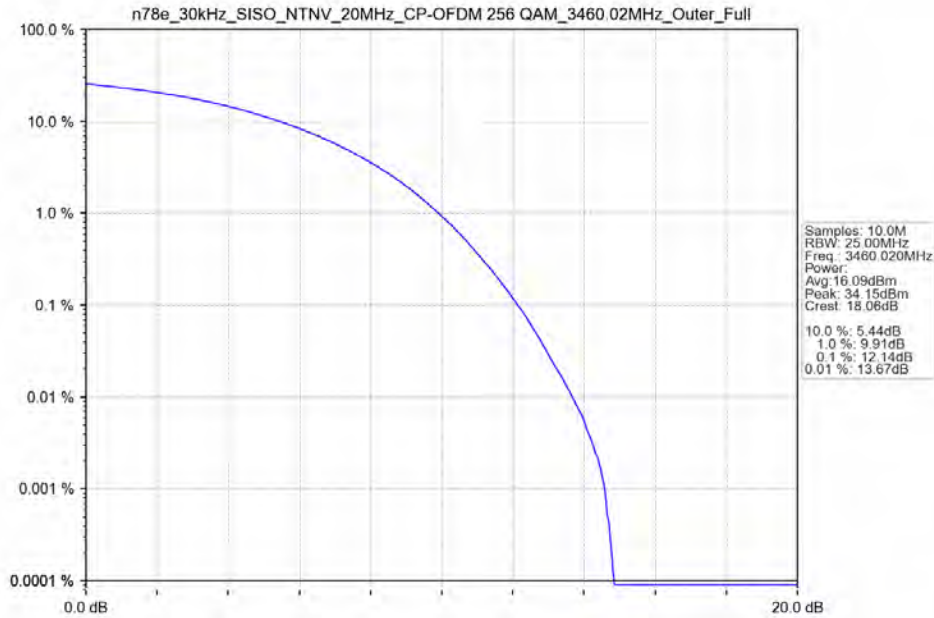
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n78e_30kHz_SISO_NTNV_20MHz_CP-OFDM_256_QAM_3460.02MHz_Outer_Full



n78e_30kHz_SISO_NTNV_20MHz_CP-OFDM_256_QAM_3500.01MHz_Outer_Full



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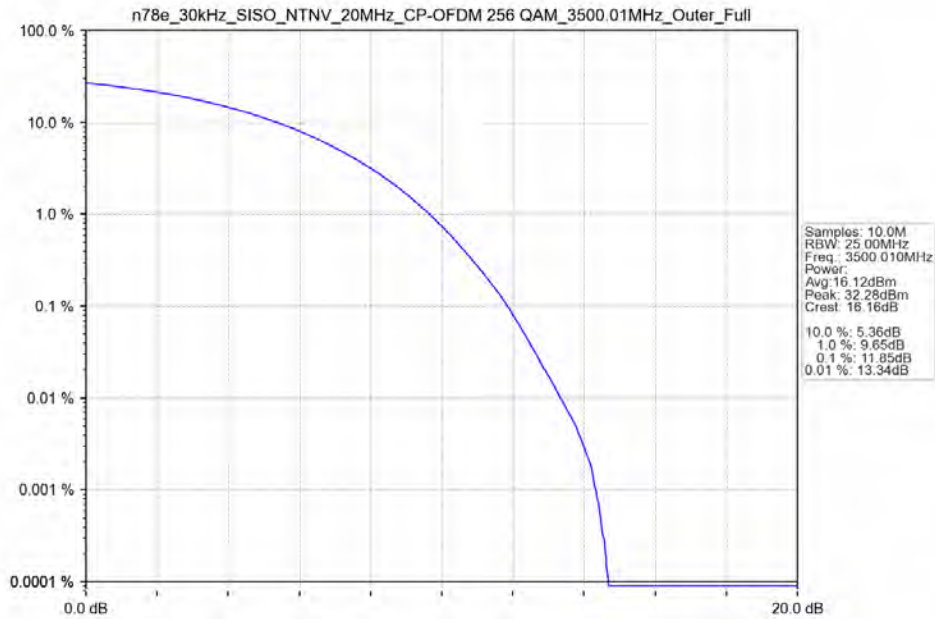


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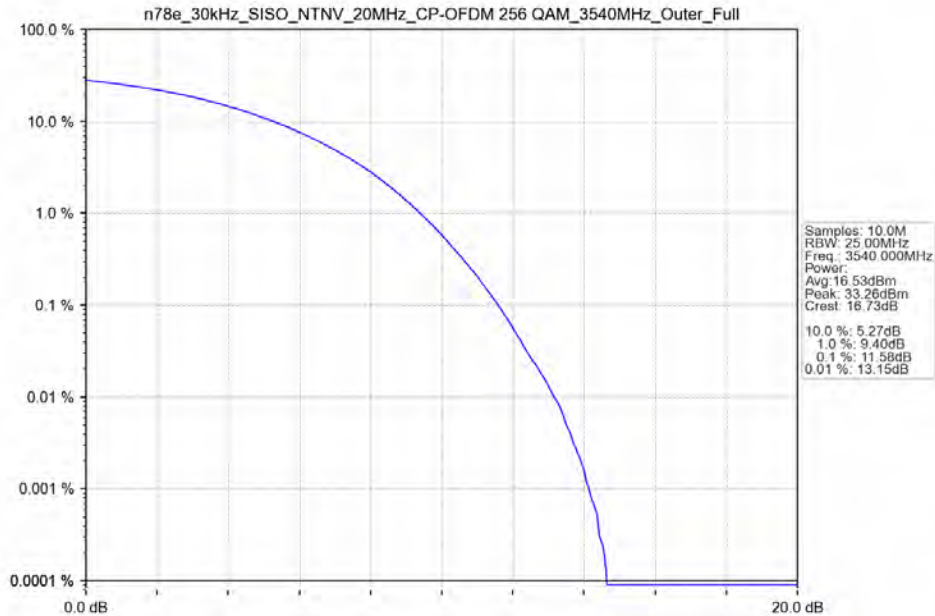
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n78e_30kHz_SISO_NTNV_20MHz_CP-OFDM_256_QAM_3540MHz_Outer_Full



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4.2 30k_SISO_30MHz_NTNV

4.2.1 Test Result

5G NR n78e SCS=30kHz SISO 30MHz NTV							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant4	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3465	Outer_Full	9.58	/	/	<=13	Pass
	3500.01	Outer_Full	7.61	/	/	<=13	Pass
	3534.99	Outer_Full	8.06	/	/	<=13	Pass
DFT-s-OFDM QPSK	3465	Outer_Full	9.43	/	/	<=13	Pass
	3500.01	Outer_Full	8.97	/	/	<=13	Pass
	3534.99	Outer_Full	10.09	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3465	Outer_Full	9.80	/	/	<=13	Pass
	3500.01	Outer_Full	10.23	/	/	<=13	Pass
	3534.99	Outer_Full	10.14	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3465	Outer_Full	10.35	/	/	<=13	Pass
	3500.01	Outer_Full	10.55	/	/	<=13	Pass
	3534.99	Outer_Full	9.94	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3465	Outer_Full	10.26	/	/	<=13	Pass
	3500.01	Outer_Full	10.55	/	/	<=13	Pass
	3534.99	Outer_Full	10.46	/	/	<=13	Pass
CP-OFDM QPSK	3465	Outer_Full	9.01	/	/	<=13	Pass
	3500.01	Outer_Full	11.26	/	/	<=13	Pass
	3534.99	Outer_Full	11.20	/	/	<=13	Pass
CP-OFDM 16 QAM	3465	Outer_Full	11.35	/	/	<=13	Pass
	3500.01	Outer_Full	11.62	/	/	<=13	Pass
	3534.99	Outer_Full	12.06	/	/	<=13	Pass
CP-OFDM 64 QAM	3465	Outer_Full	11.32	/	/	<=13	Pass
	3500.01	Outer_Full	11.83	/	/	<=13	Pass
	3534.99	Outer_Full	11.26	/	/	<=13	Pass
CP-OFDM 256 QAM	3465	Outer_Full	12.32	/	/	<=13	Pass
	3500.01	Outer_Full	11.77	/	/	<=13	Pass
	3534.99	Outer_Full	12.56	/	/	<=13	Pass



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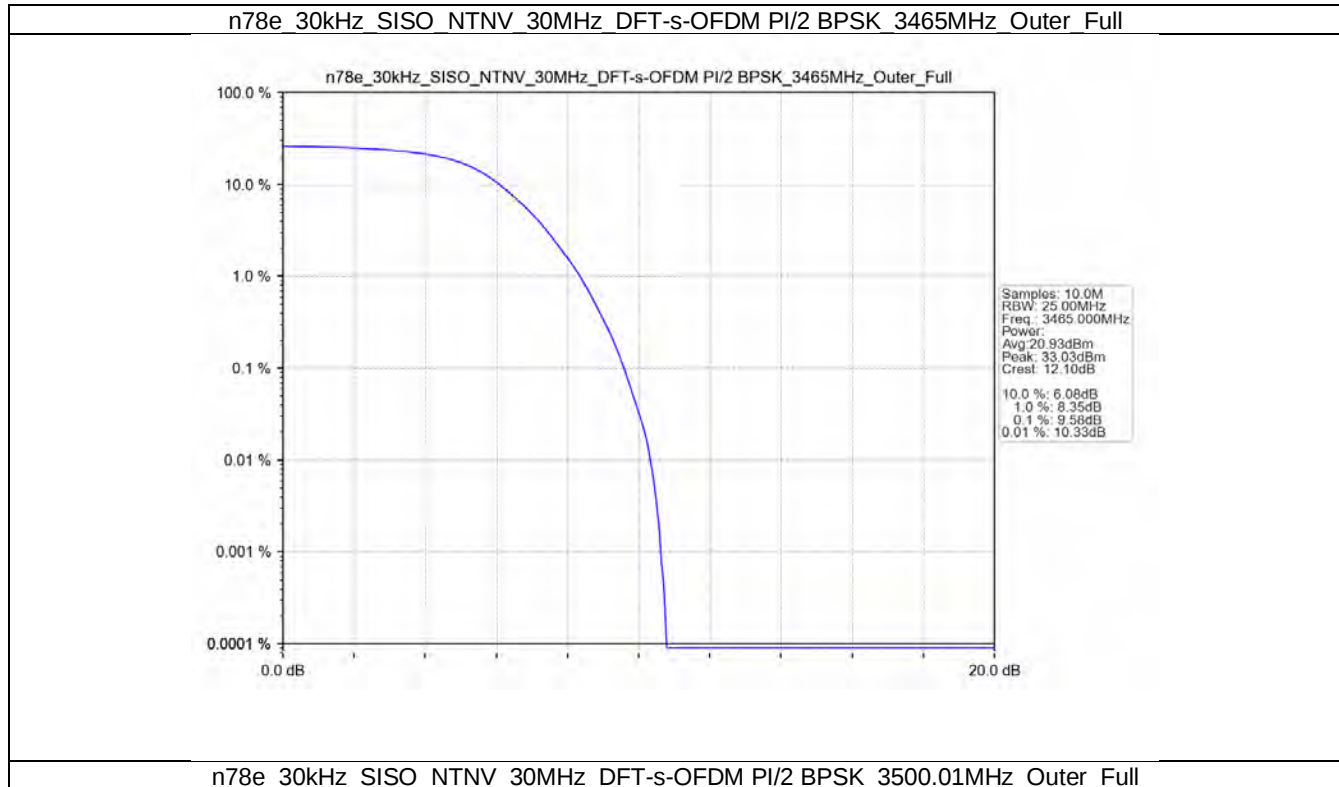
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4.2.2 Test Graph



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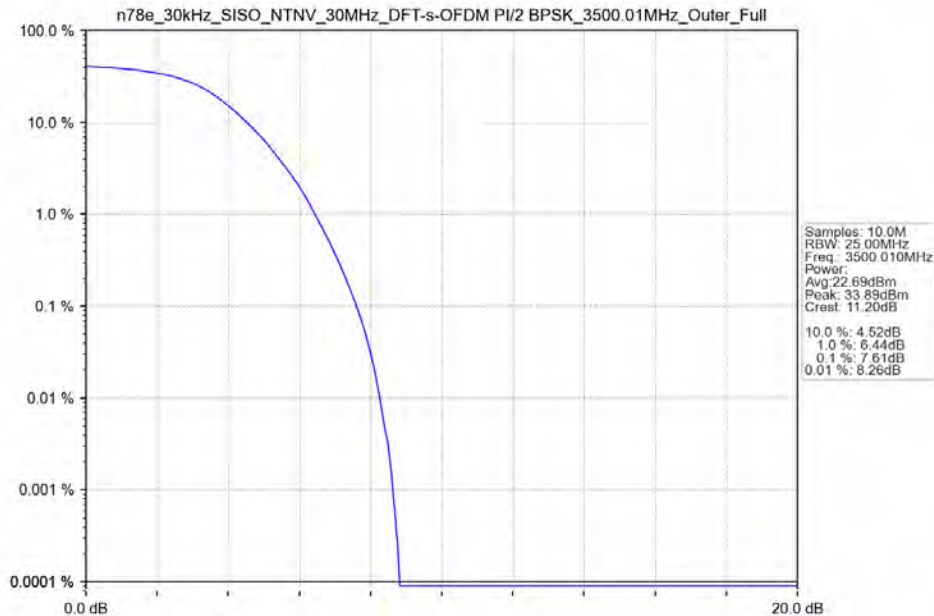


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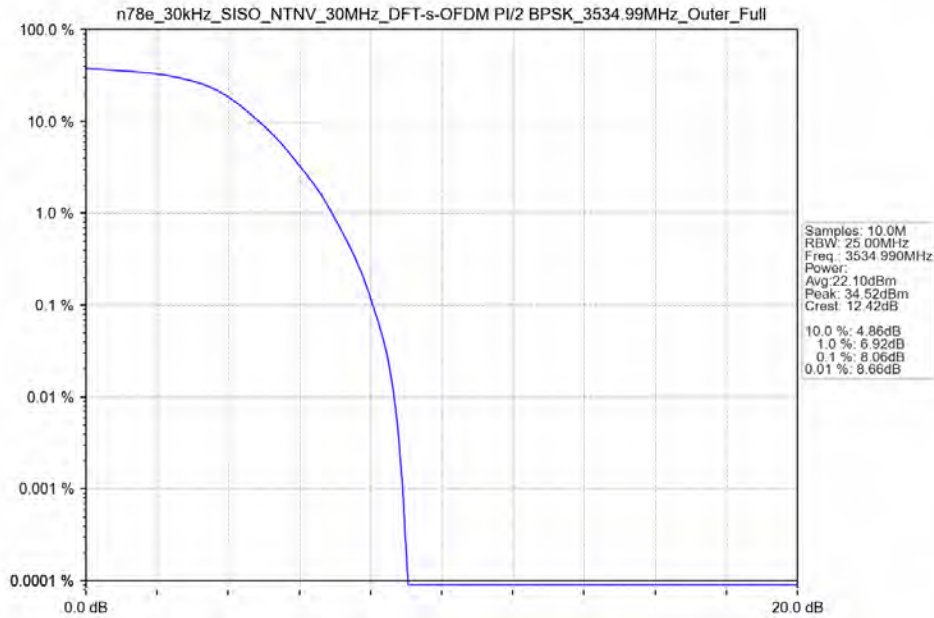
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n78e_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM PI/2 BPSK_3534.99MHz_Outer_Full



n78e_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM QPSK_3465MHz_Outer_Full



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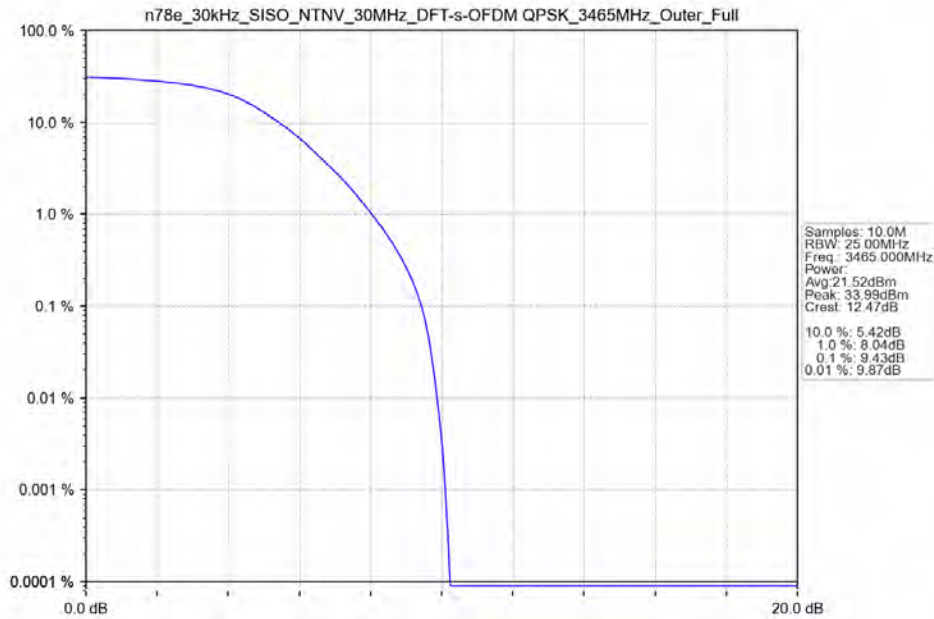


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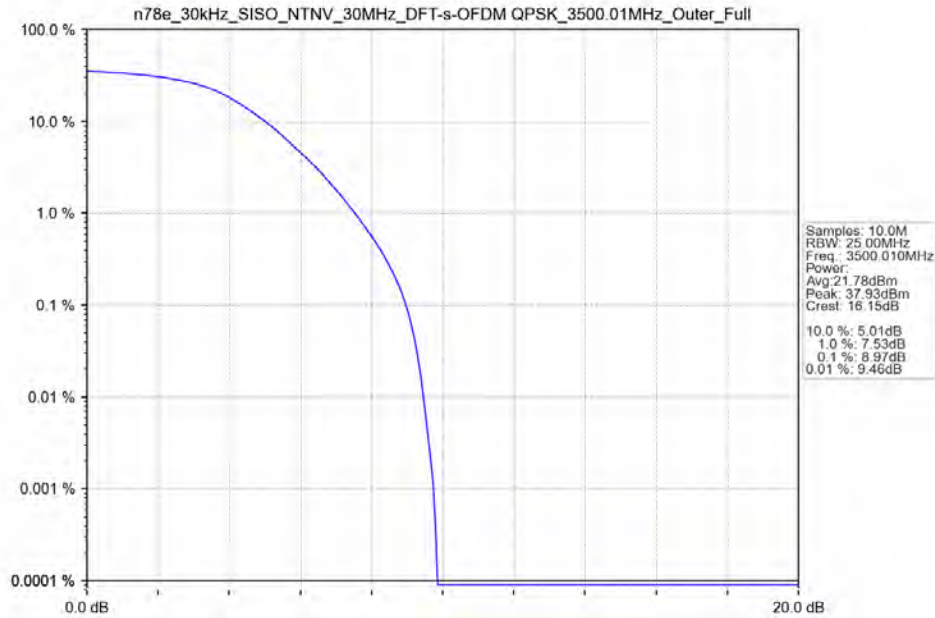
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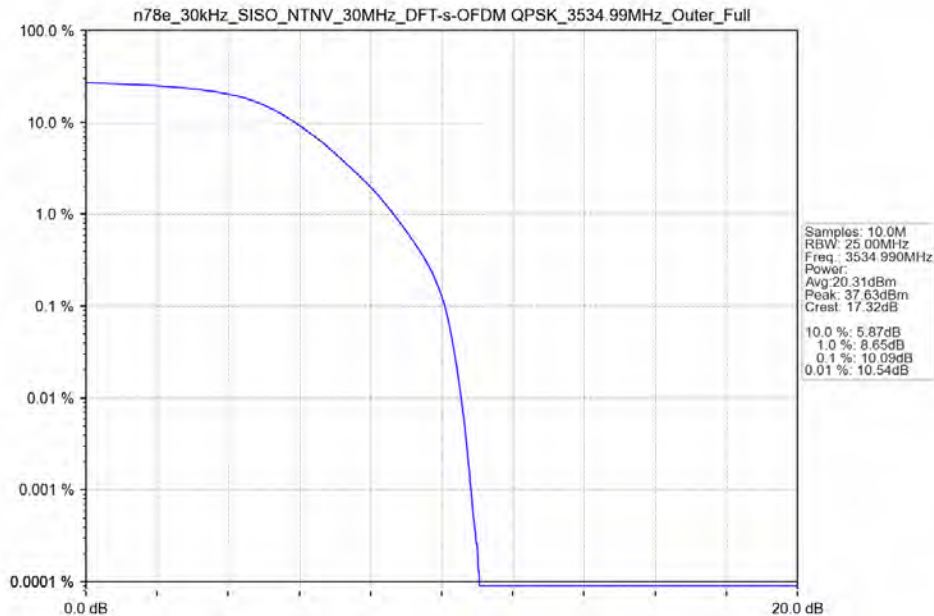


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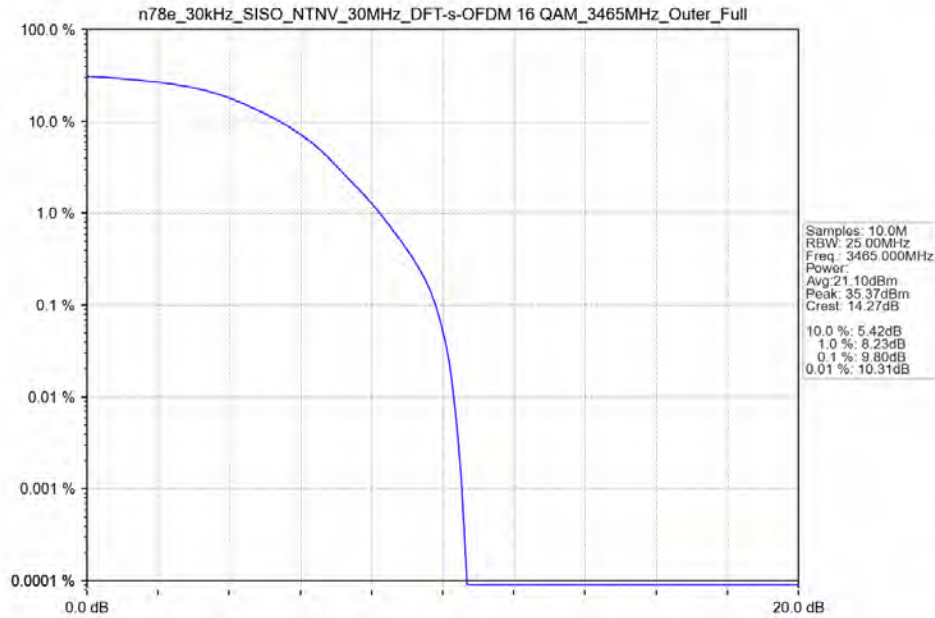
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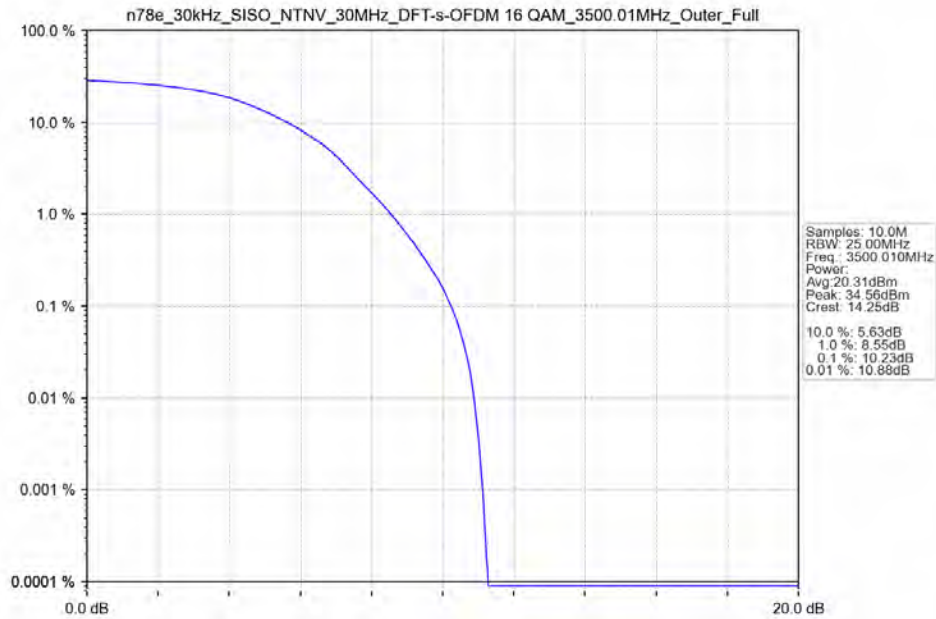


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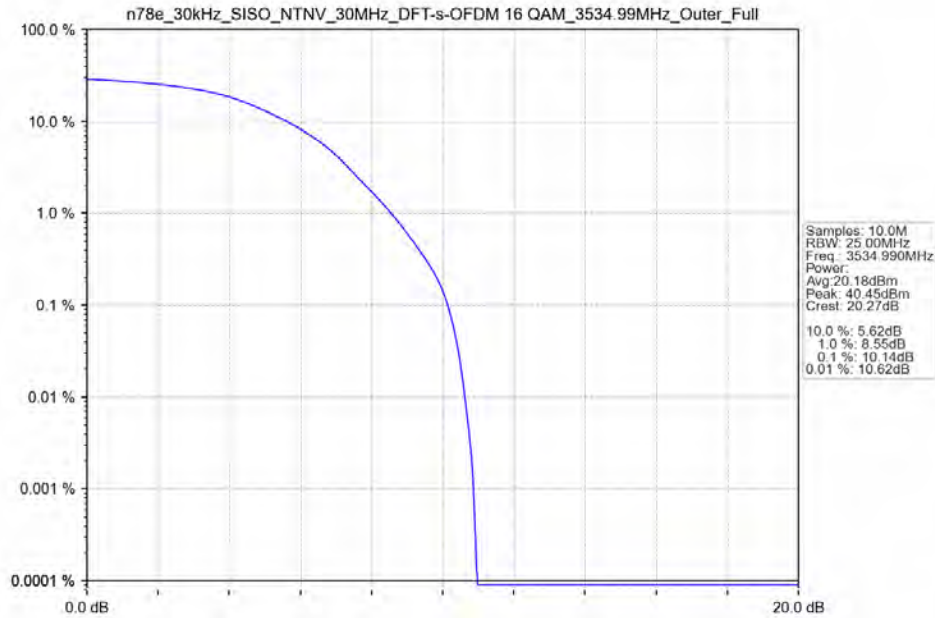
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n78e_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM 16 QAM_3534.99MHz_Outer_Full



n78e_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM 64 QAM_3465MHz_Outer_Full



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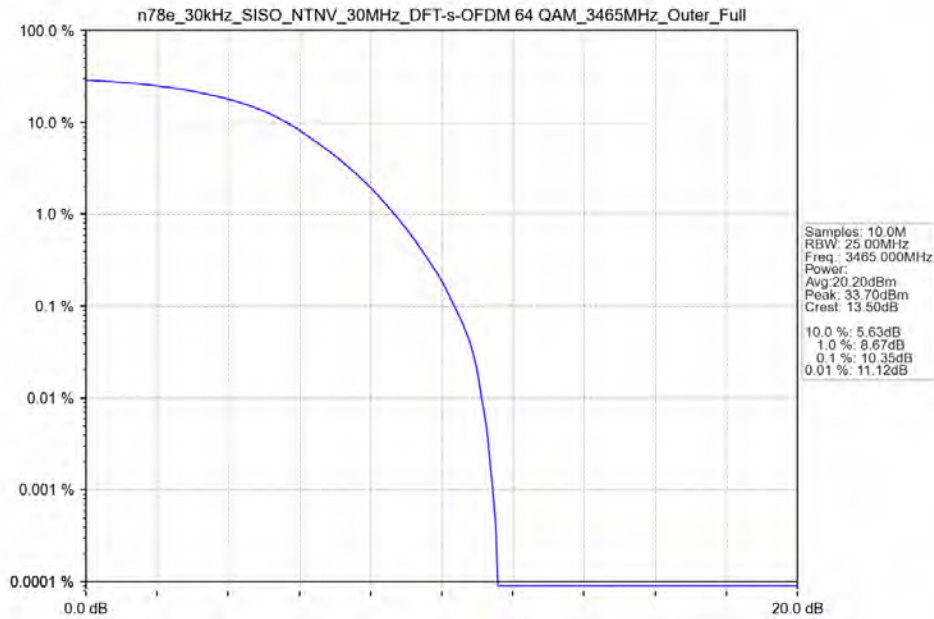


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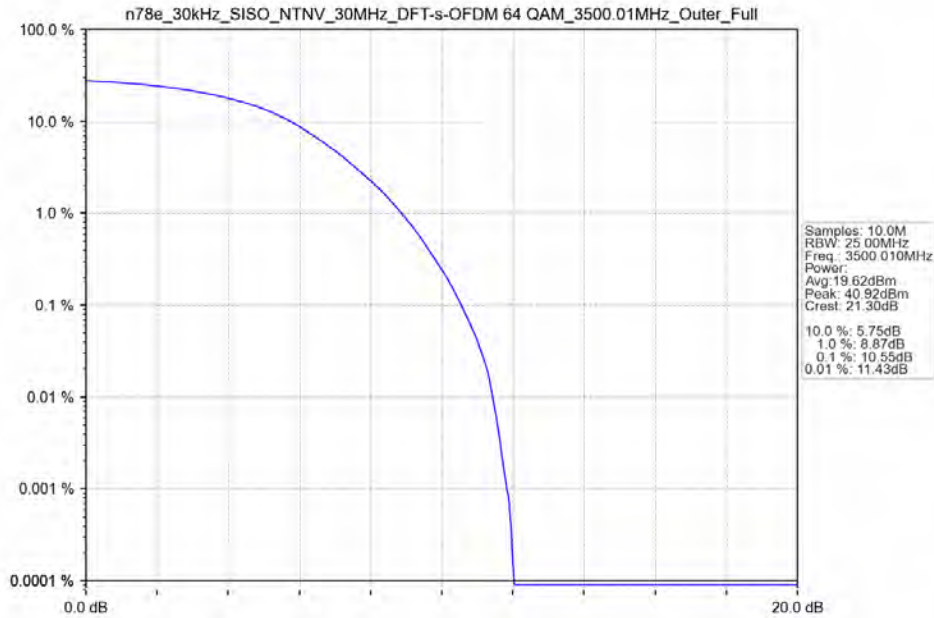
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n78e_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM 64 QAM_3534.99MHz_Outer_Full



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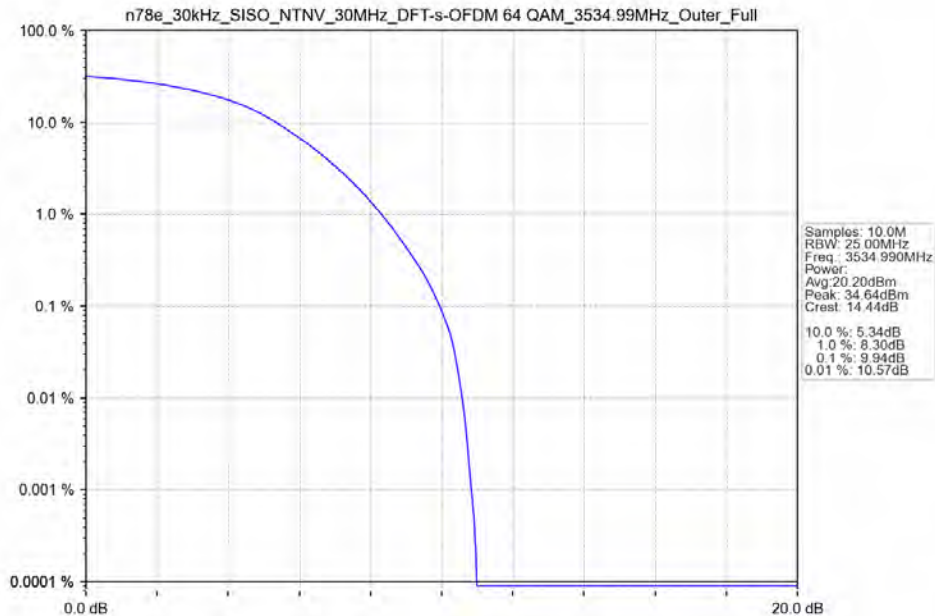


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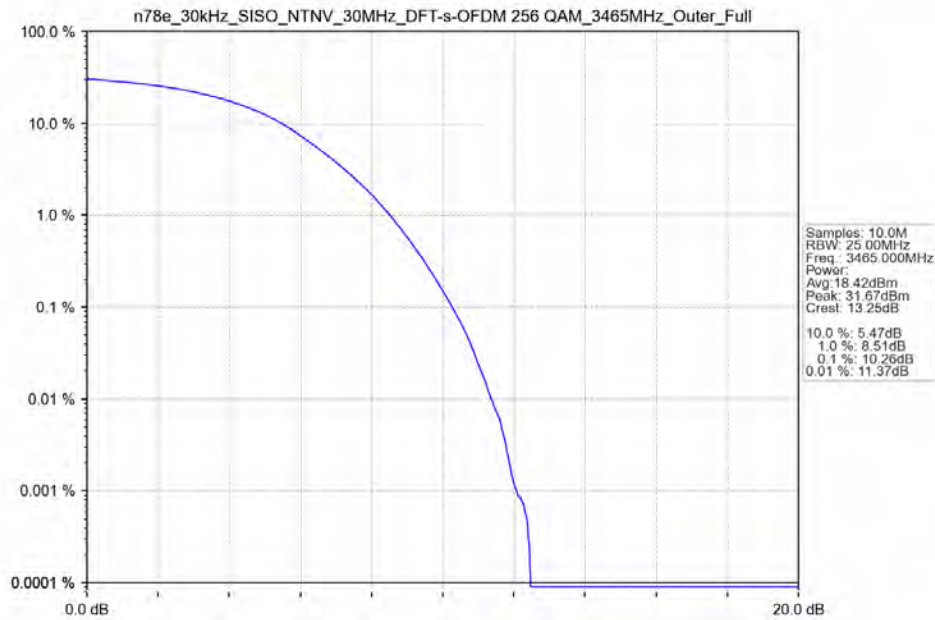
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n78e_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_256_QAM_3500.01MHz_Outer_Full



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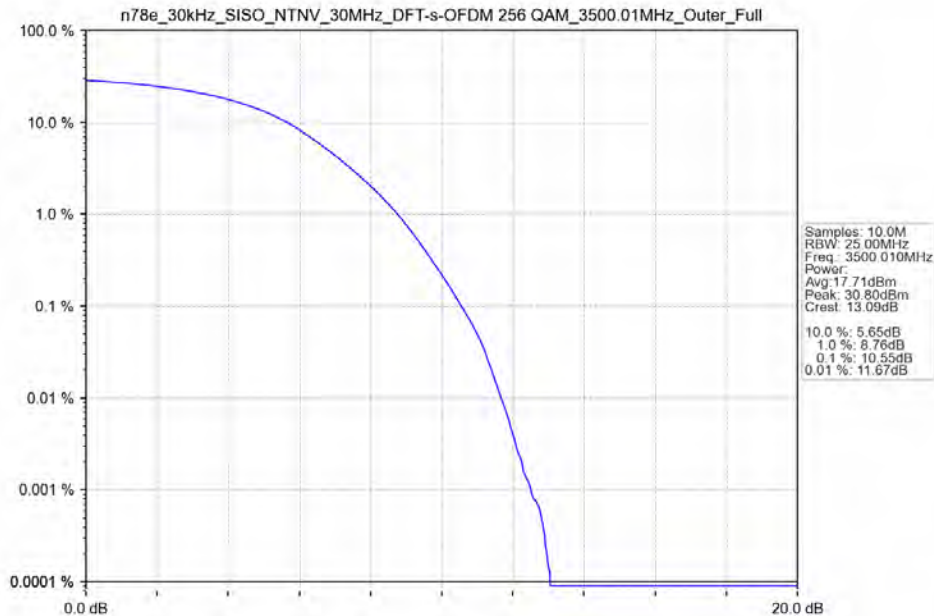


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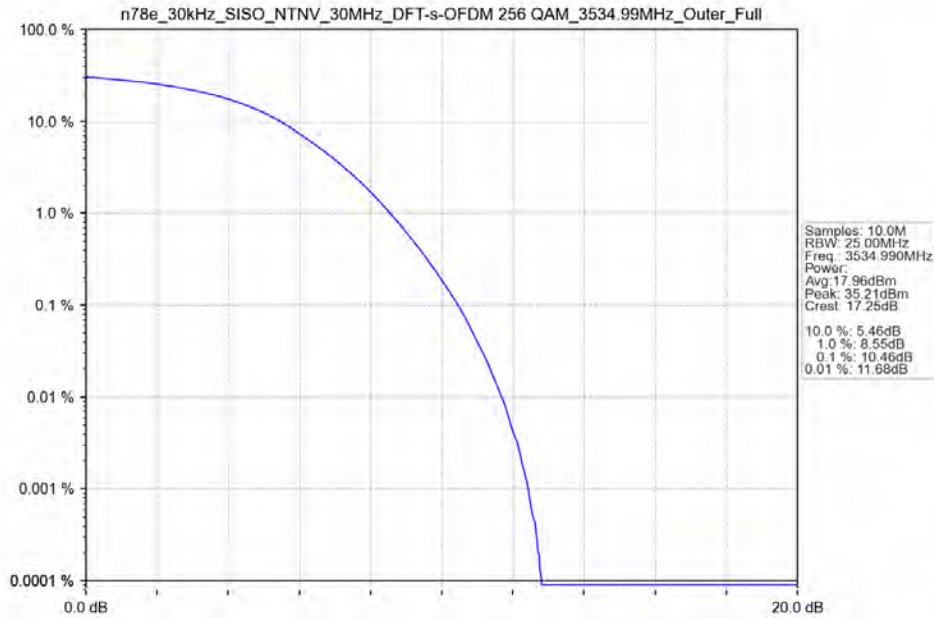
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n78e_30kHz_SISO_NTNV_30MHz_CP-OFDM_QPSK_3465MHz_Outer_Full



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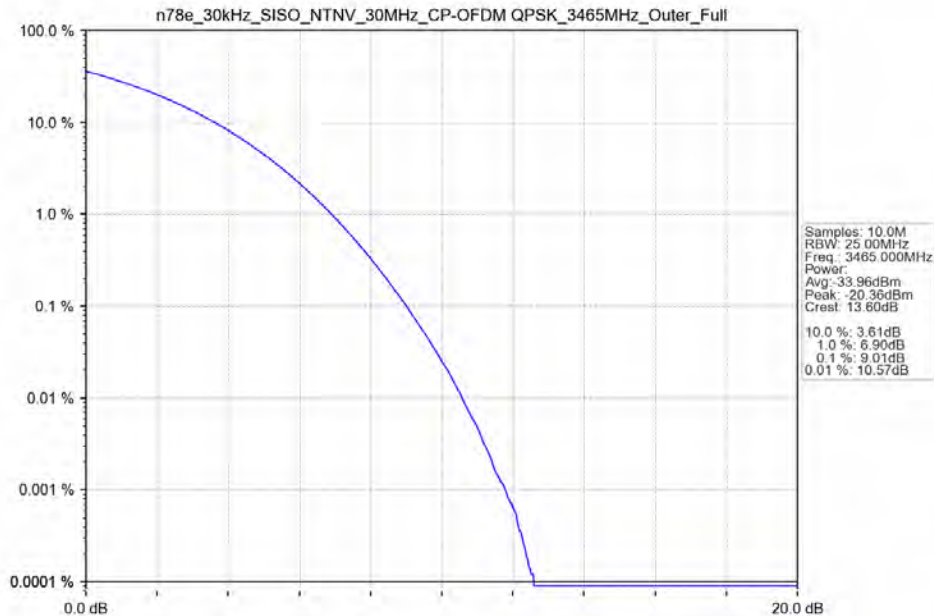


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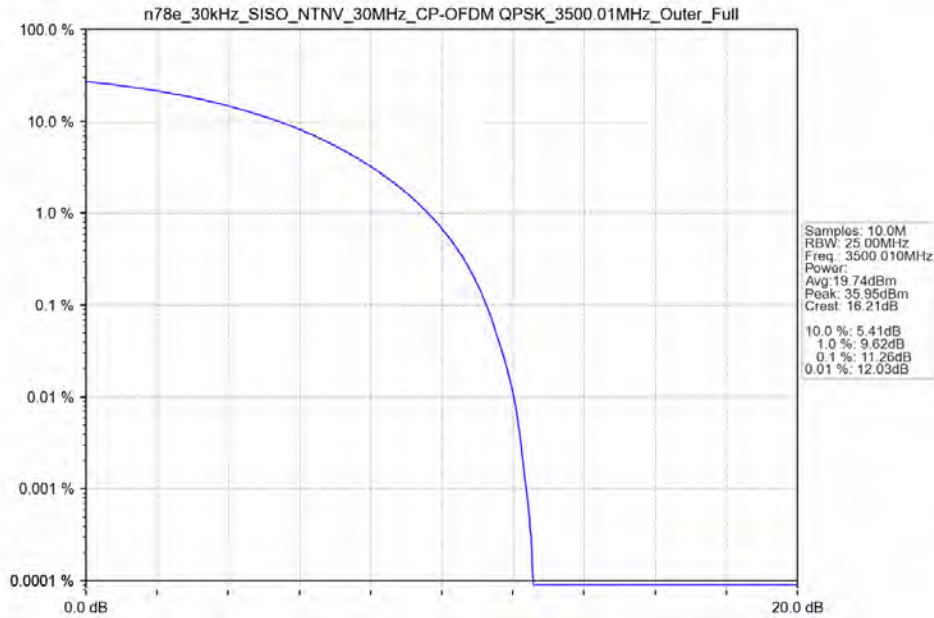
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n78e_30kHz_SISO_NTNV_30MHz_CP-OFDM QPSK_3534.99MHz_Outer_Full



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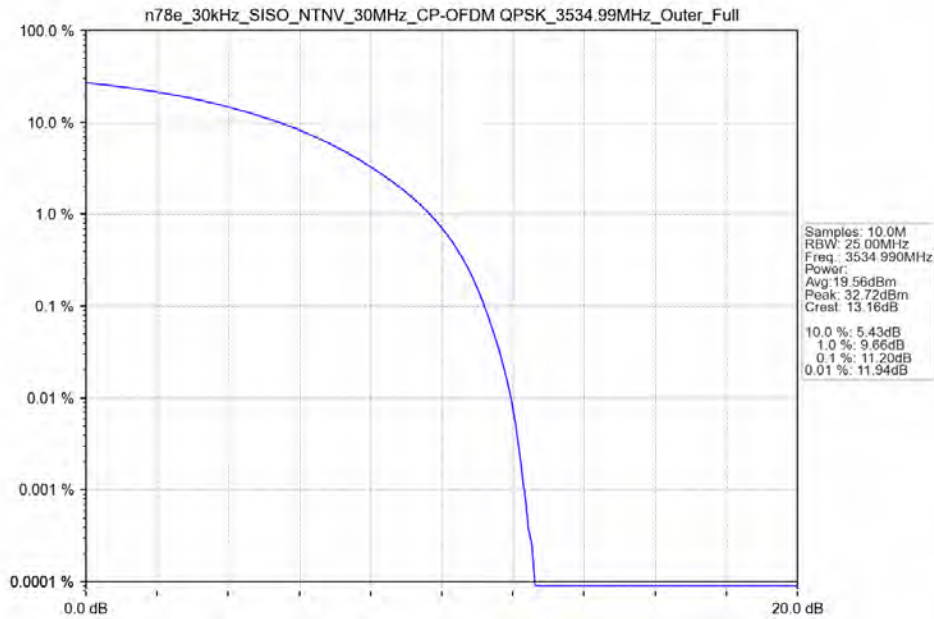


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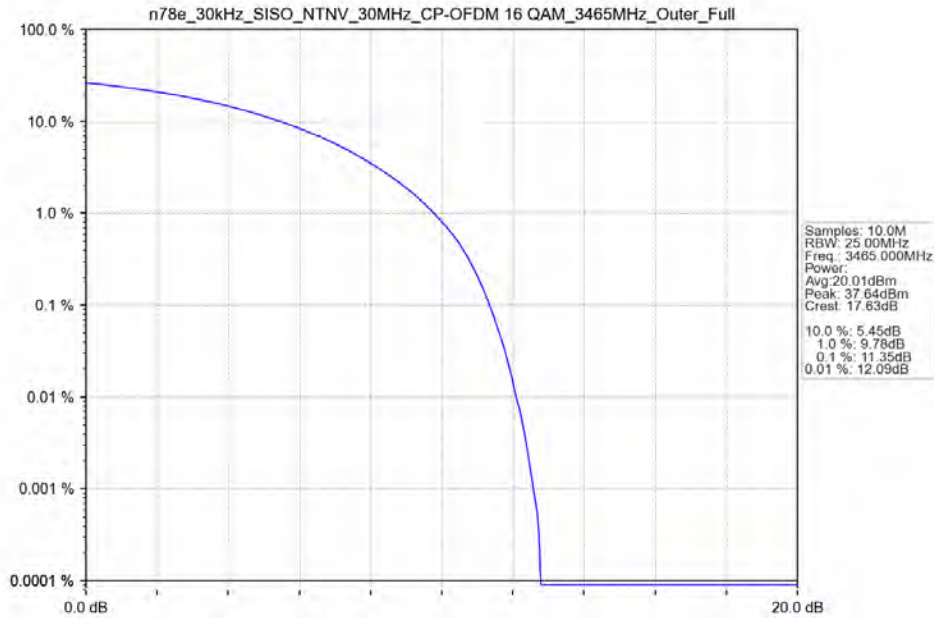
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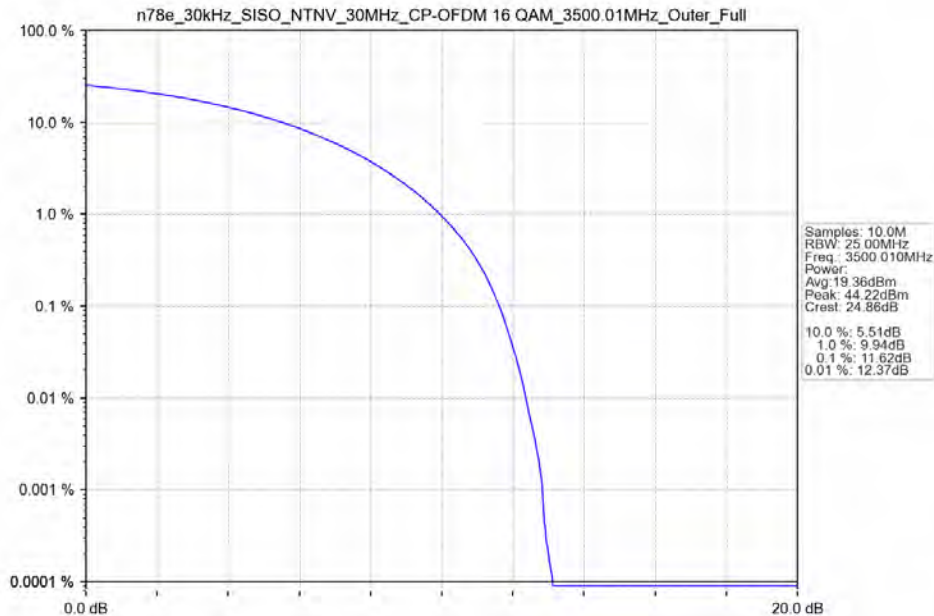


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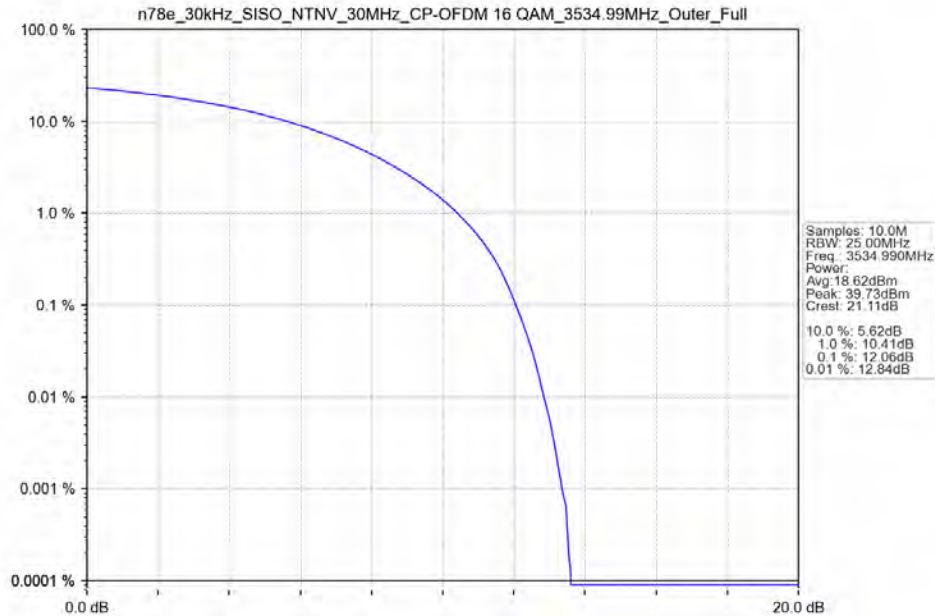
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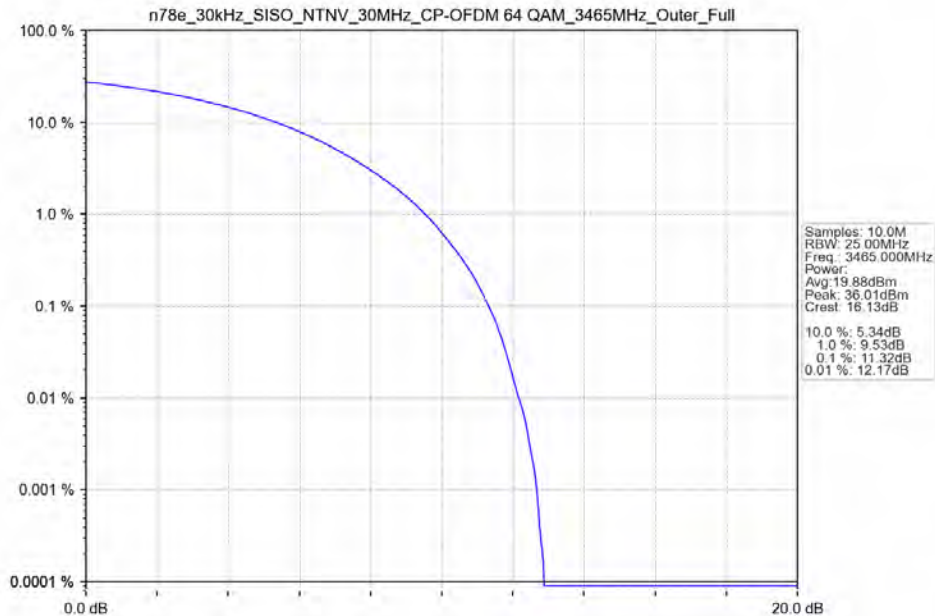


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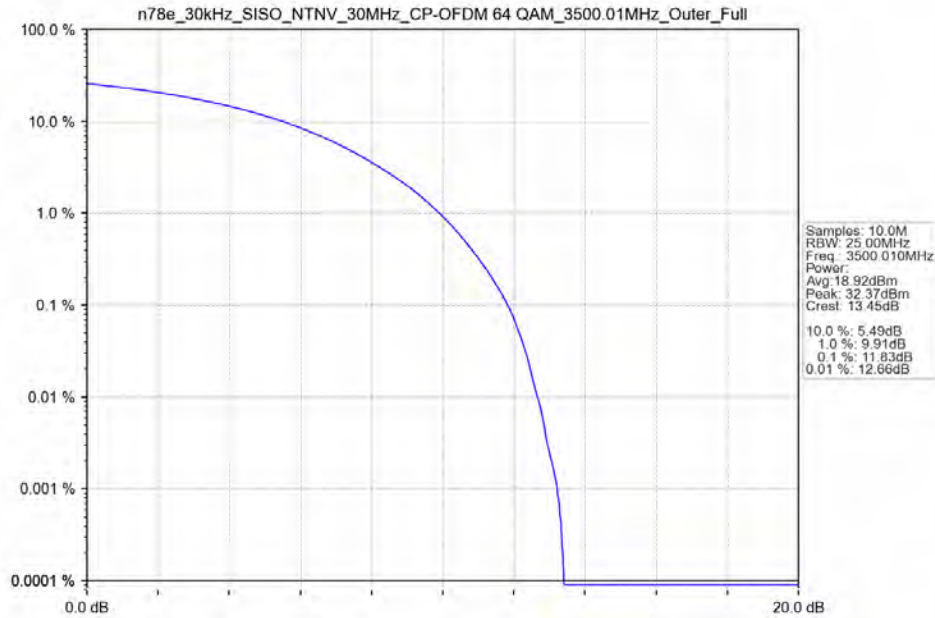
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n78e_30kHz_SISO_NTNV_30MHz_CP-OFDM 64 QAM_3500.01MHz_Outer_Full



n78e_30kHz_SISO_NTNV_30MHz_CP-OFDM 64 QAM_3534.99MHz_Outer_Full



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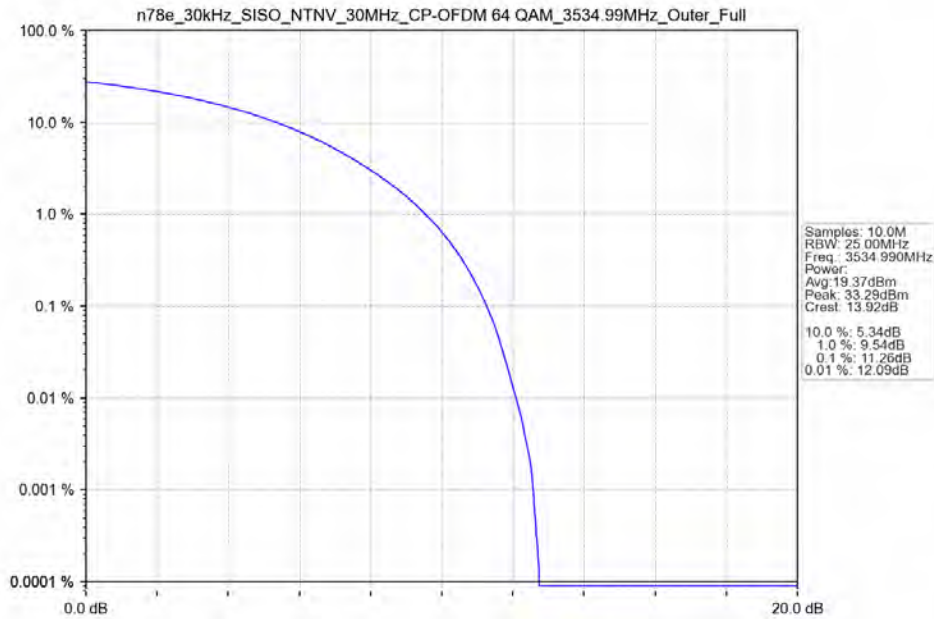


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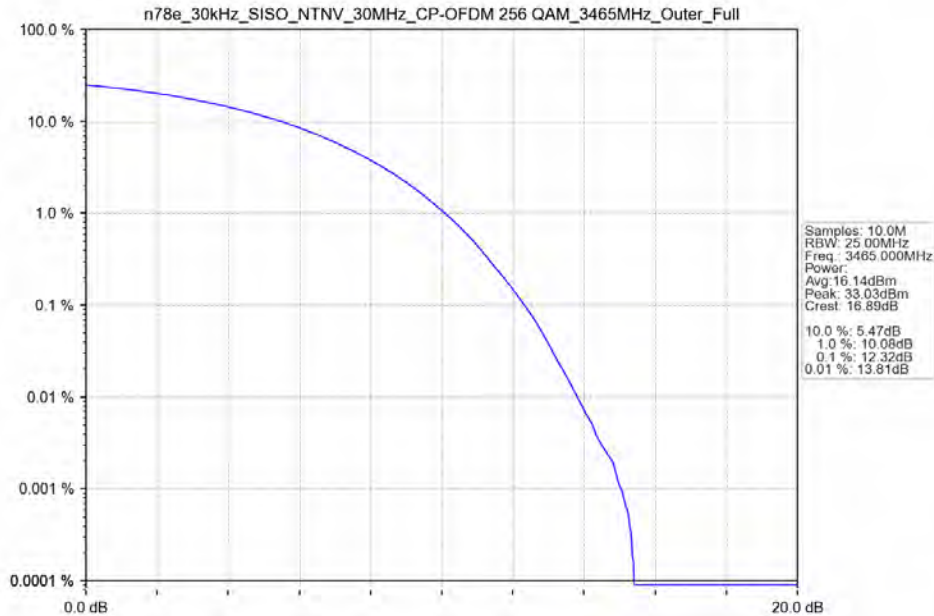
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n78e_30kHz_SISO_NTNV_30MHz_CP-OFDM_256_QAM_3465MHz_Outer_Full



n78e_30kHz_SISO_NTNV_30MHz_CP-OFDM_256_QAM_3500.01MHz_Outer_Full



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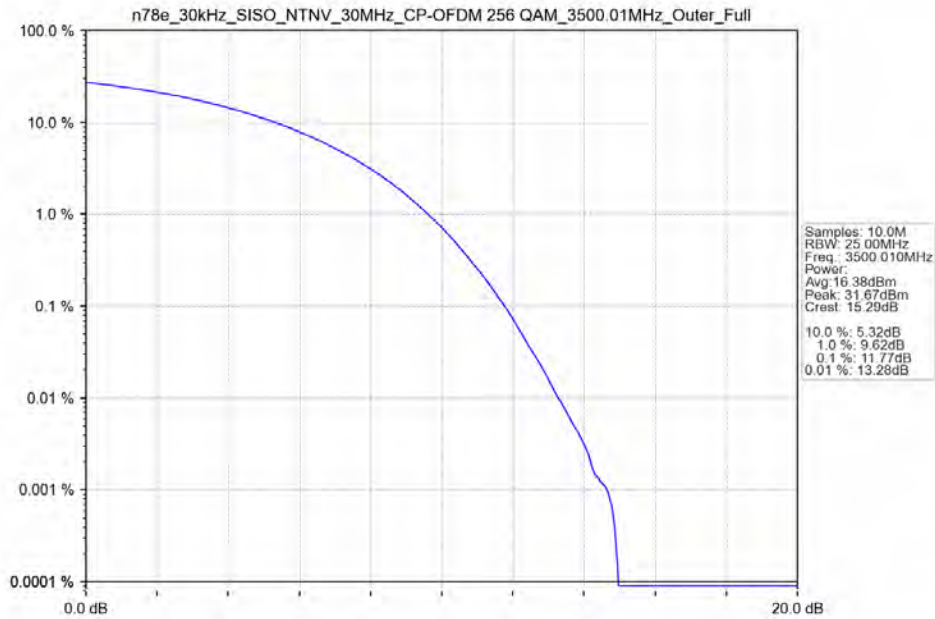


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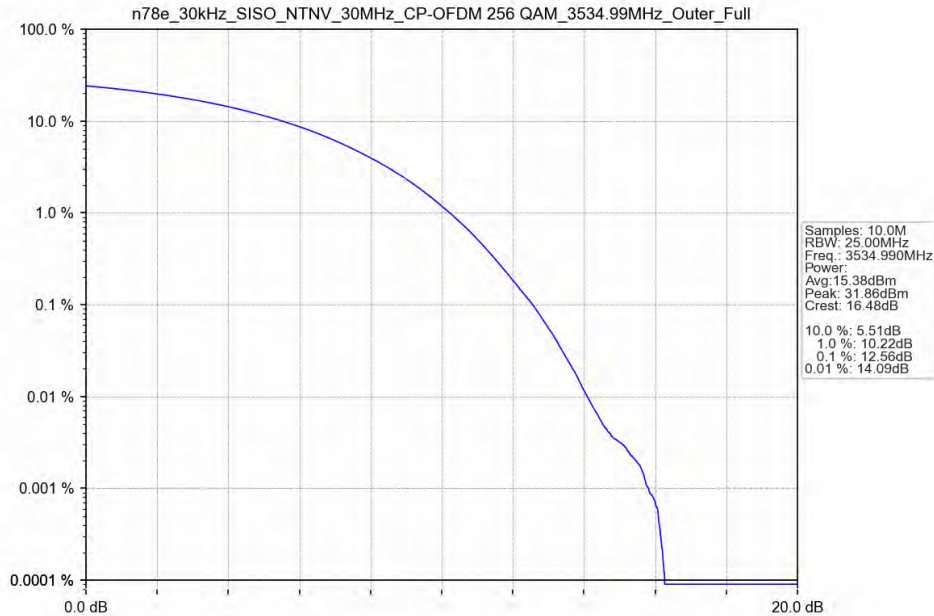
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4.3 30k_SISO_40MHz_NTNV

4.3.1 Test Result

5G NR n78e SCS=30kHz SISO 40MHz NTV							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant4	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3470.01	Outer Full	9.85	/	/	<=13	Pass
	3500.01	Outer Full	10.00	/	/	<=13	Pass
	3529.98	Outer Full	9.28	/	/	<=13	Pass
DFT-s-OFDM QPSK	3470.01	Outer Full	10.62	/	/	<=13	Pass
	3500.01	Outer Full	10.11	/	/	<=13	Pass
	3529.98	Outer Full	10.06	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3470.01	Outer Full	10.38	/	/	<=13	Pass
	3500.01	Outer Full	10.09	/	/	<=13	Pass
	3529.98	Outer Full	10.13	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3470.01	Outer Full	10.98	/	/	<=13	Pass
	3500.01	Outer Full	10.23	/	/	<=13	Pass
	3529.98	Outer Full	10.44	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3470.01	Outer Full	10.54	/	/	<=13	Pass
	3500.01	Outer Full	10.38	/	/	<=13	Pass
	3529.98	Outer Full	10.45	/	/	<=13	Pass
CP-OFDM QPSK	3470.01	Outer Full	11.85	/	/	<=13	Pass
	3500.01	Outer Full	11.80	/	/	<=13	Pass
	3529.98	Outer Full	12.35	/	/	<=13	Pass
CP-OFDM 16 QAM	3470.01	Outer Full	11.76	/	/	<=13	Pass
	3500.01	Outer Full	11.82	/	/	<=13	Pass
	3529.98	Outer Full	11.63	/	/	<=13	Pass
CP-OFDM 64 QAM	3470.01	Outer Full	11.42	/	/	<=13	Pass
	3500.01	Outer Full	11.41	/	/	<=13	Pass
	3529.98	Outer Full	11.31	/	/	<=13	Pass
CP-OFDM 256 QAM	3470.01	Outer Full	11.94	/	/	<=13	Pass
	3500.01	Outer Full	11.18	/	/	<=13	Pass
	3529.98	Outer Full	12.17	/	/	<=13	Pass



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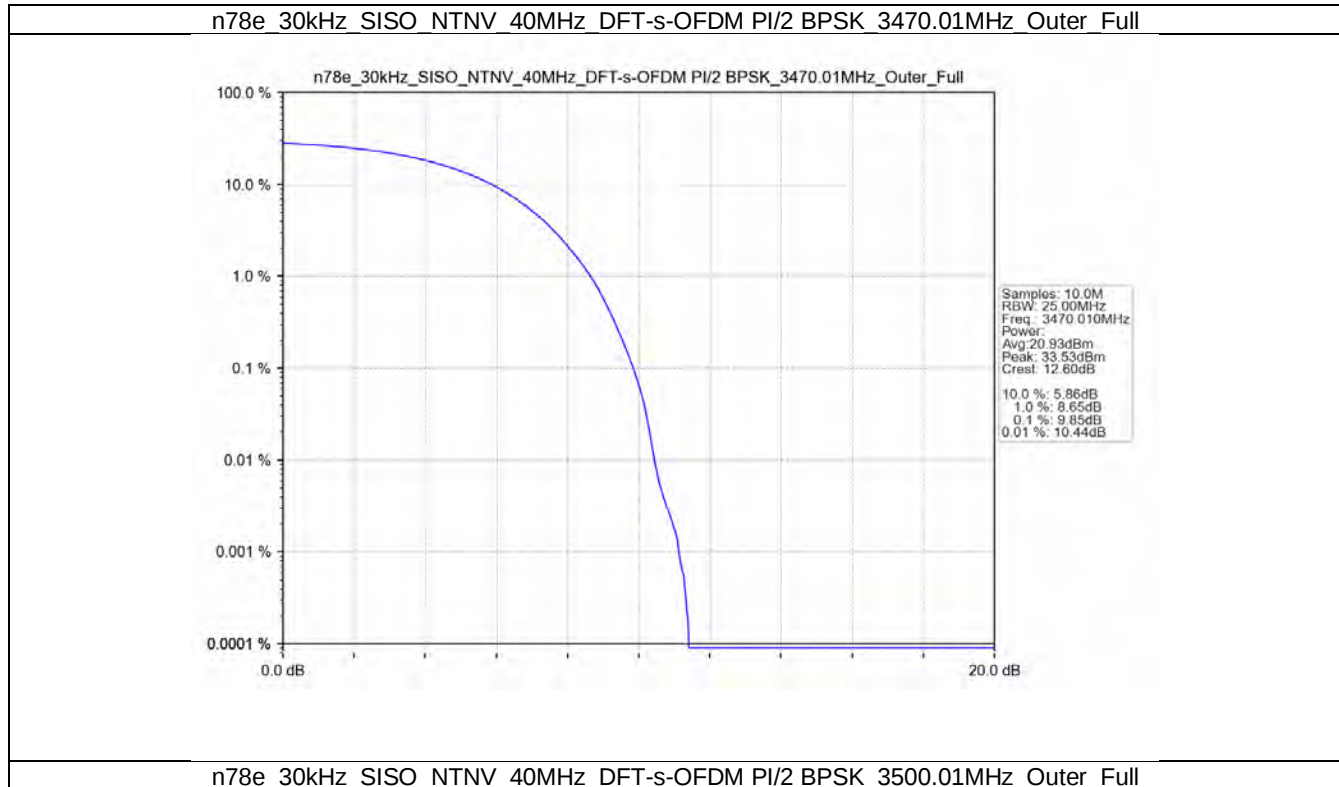
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4.3.2 Test Graph



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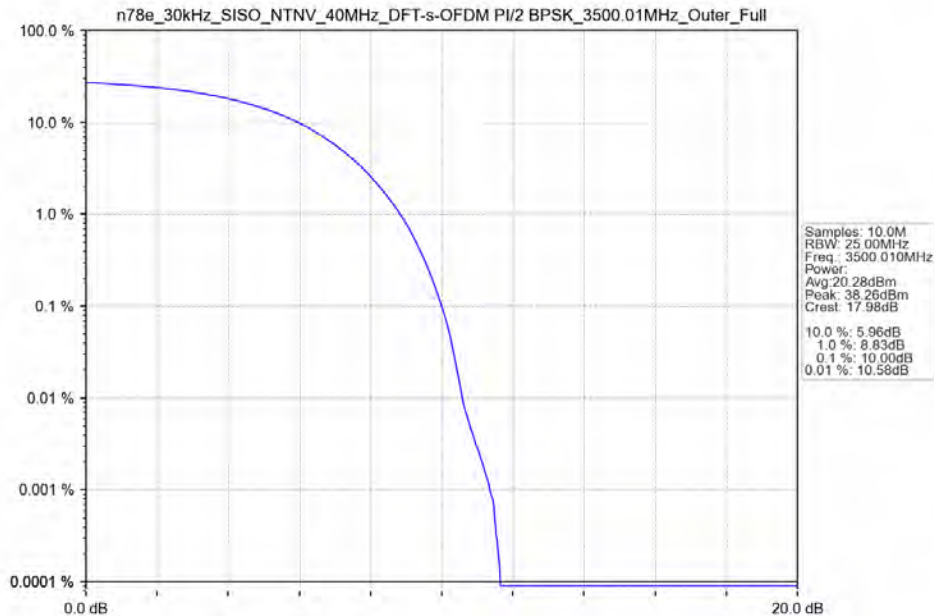


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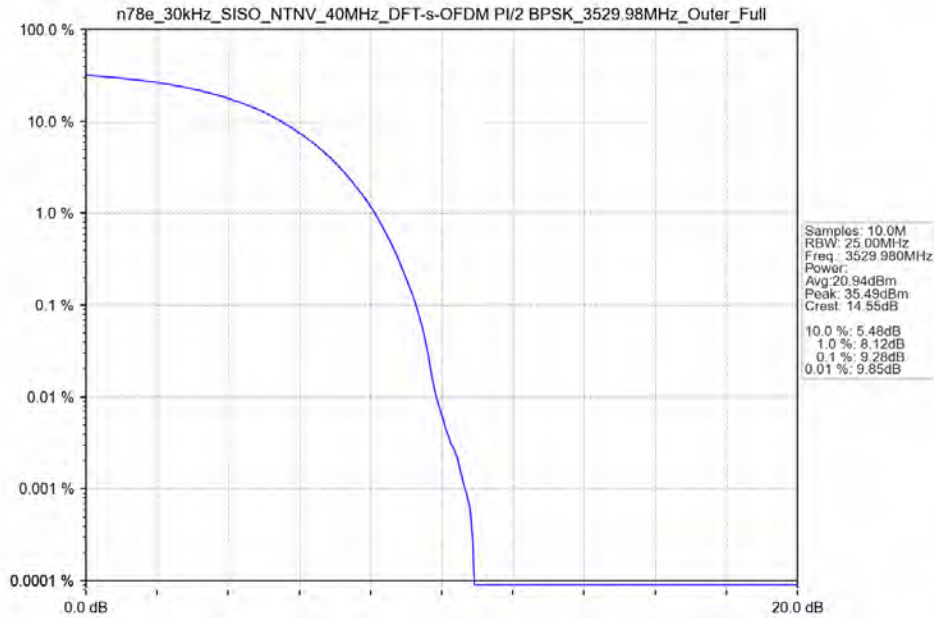
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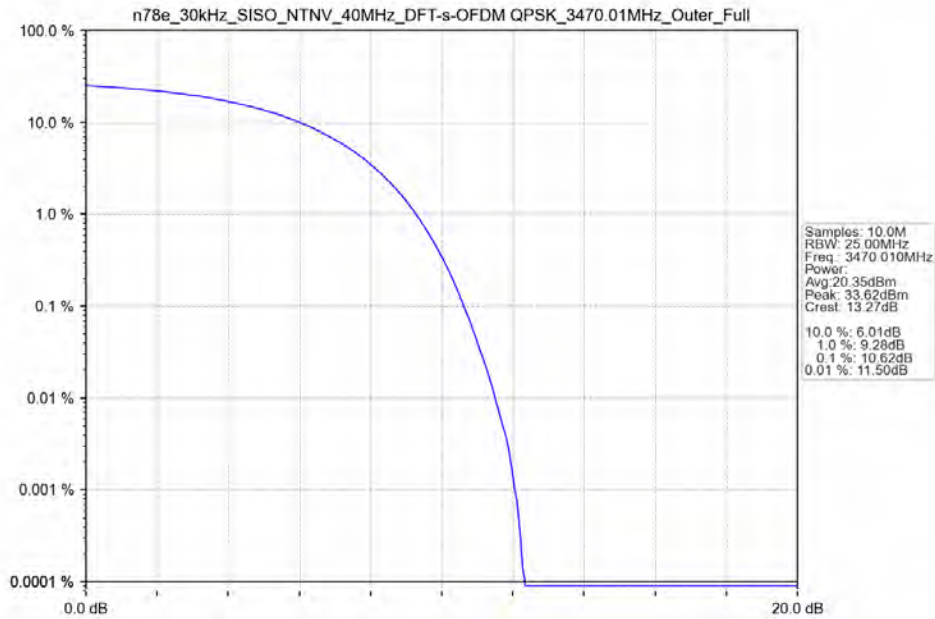


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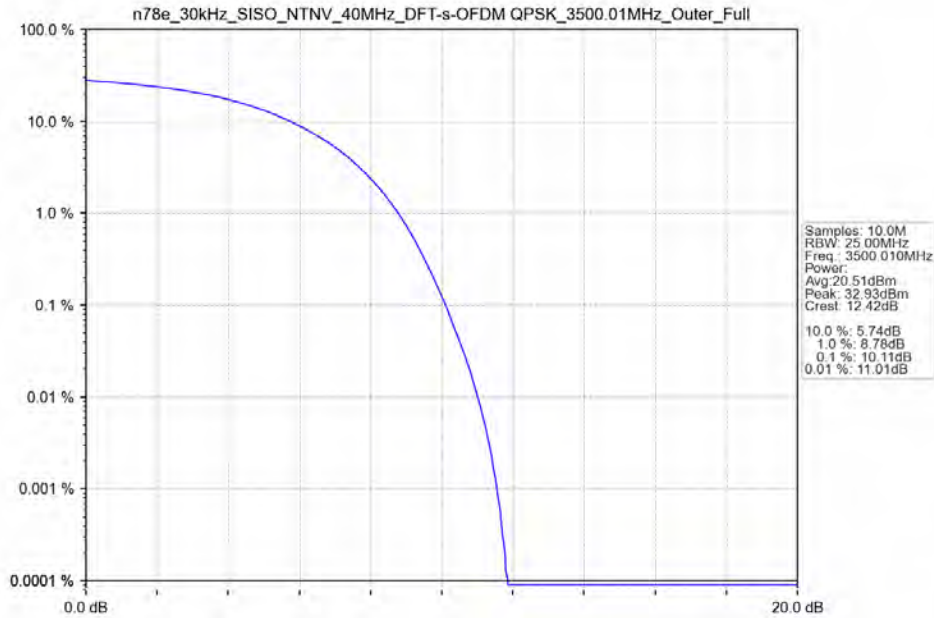
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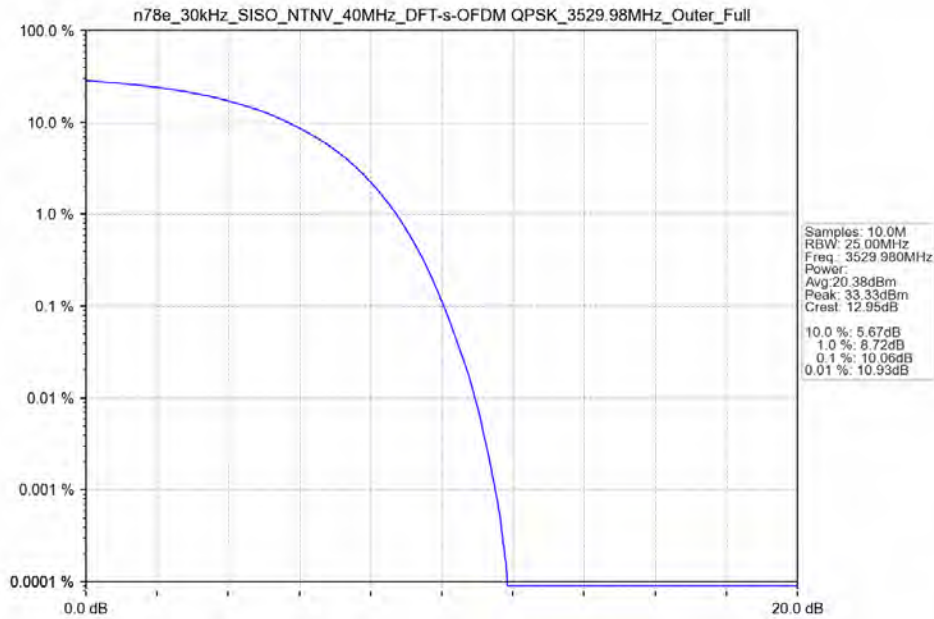


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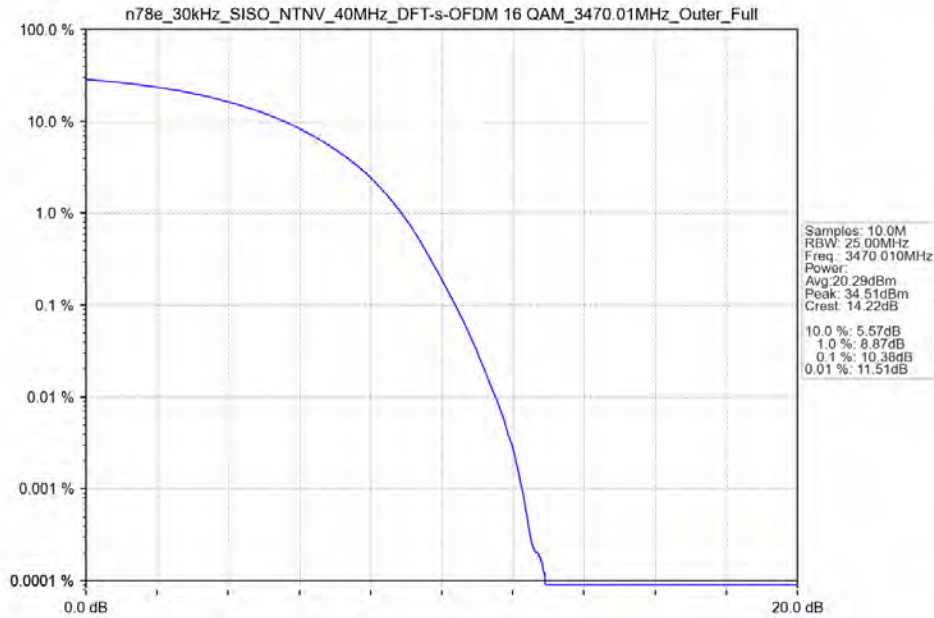
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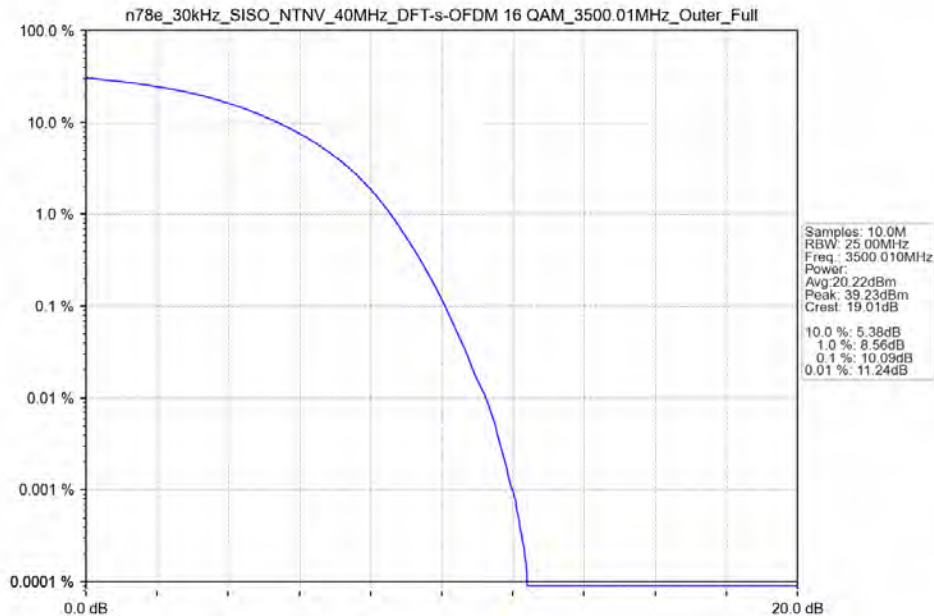


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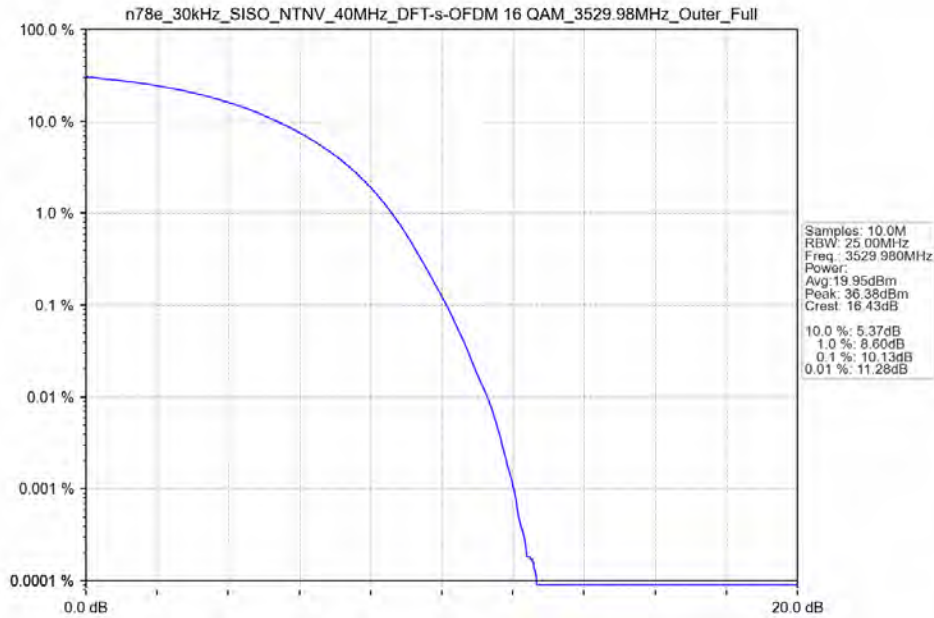
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n78e_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM 16 QAM_3529.98MHz_Outer_Full



n78e_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM 64 QAM_3470.01MHz_Outer_Full



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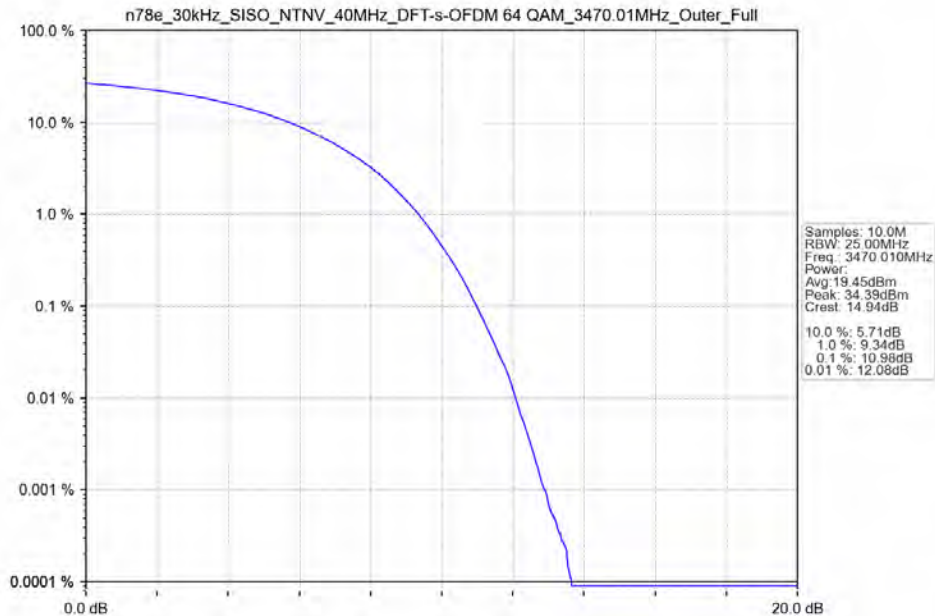


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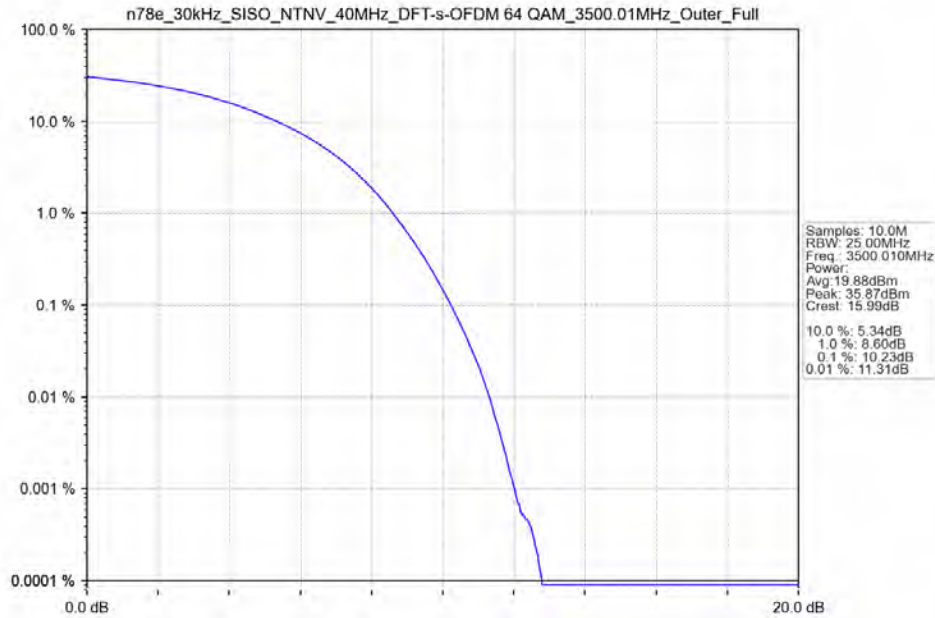
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n78e_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM 64 QAM_3529.98MHz_Outer_Full



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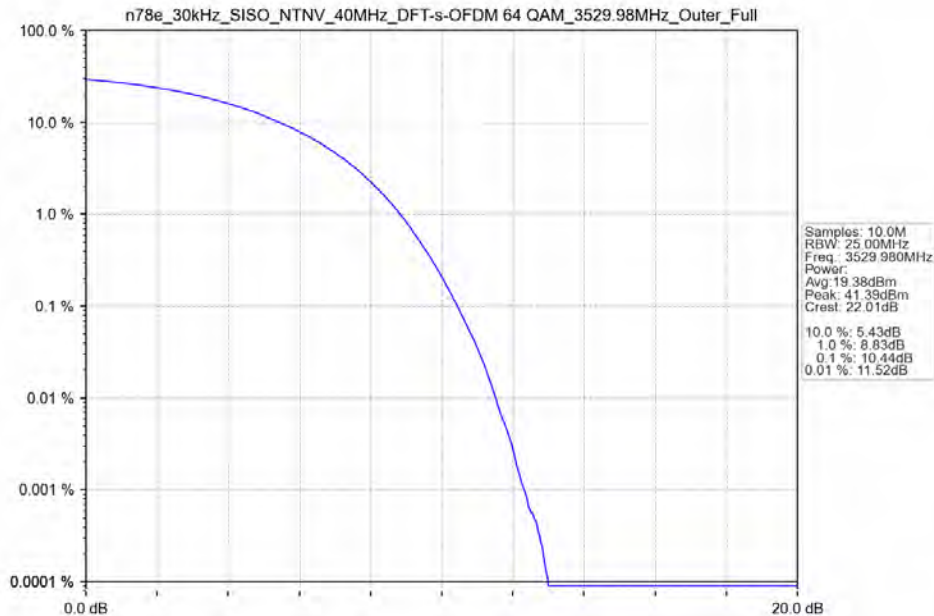


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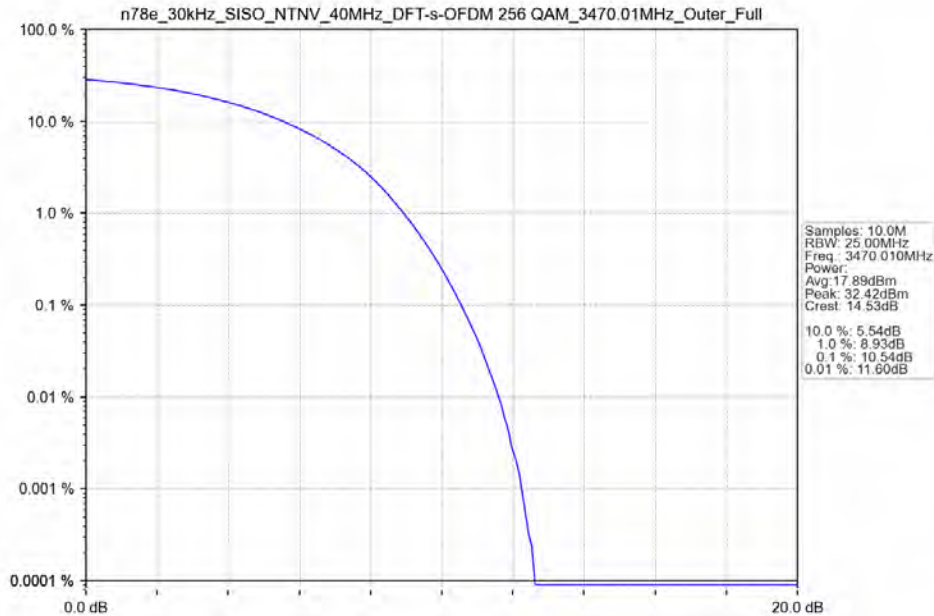
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n78e_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_256_QAM_3500.01MHz_Outer_Full



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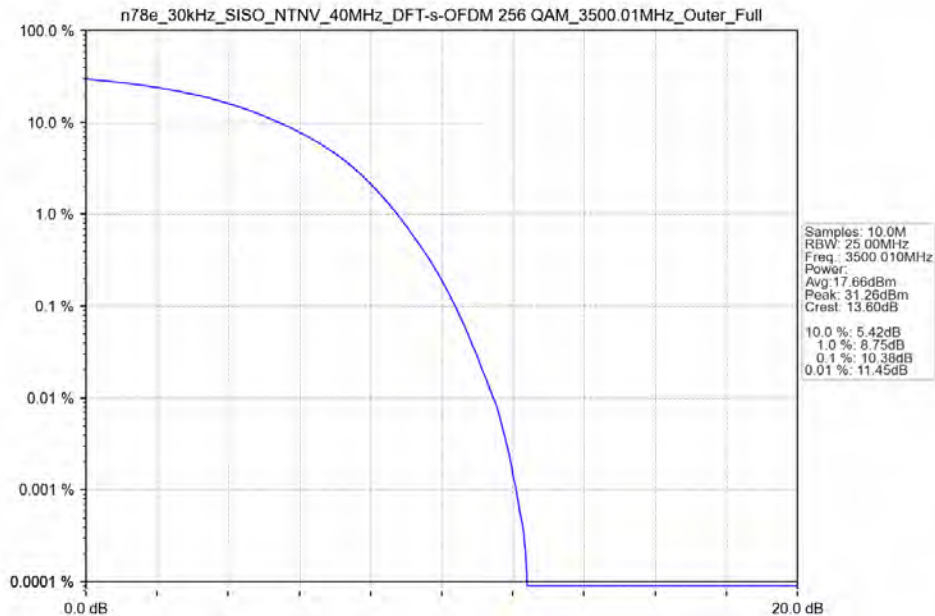


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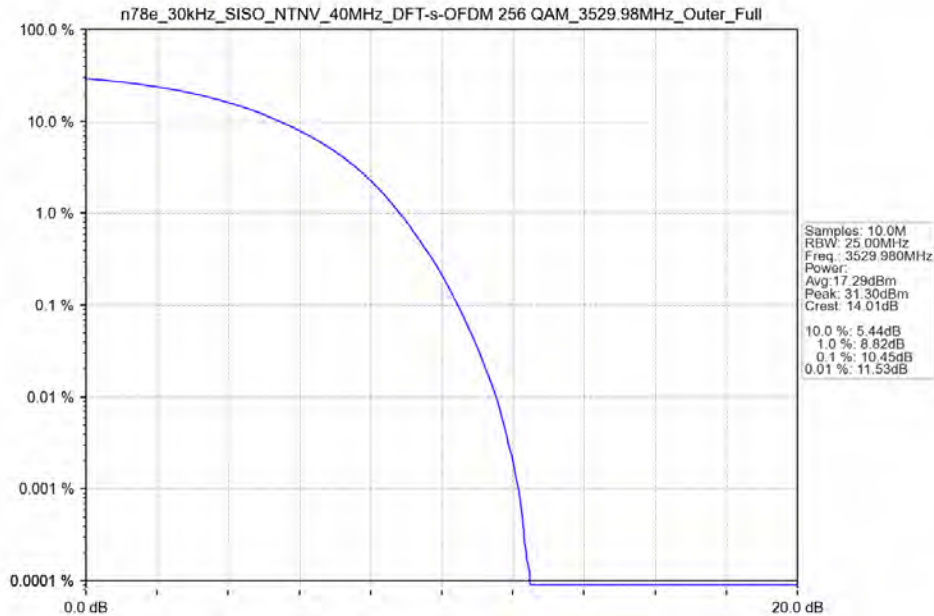
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n78e_30kHz_SISO_NTNV_40MHz_CP-OFDM_QPSK_3470.01MHz_Outer_Full



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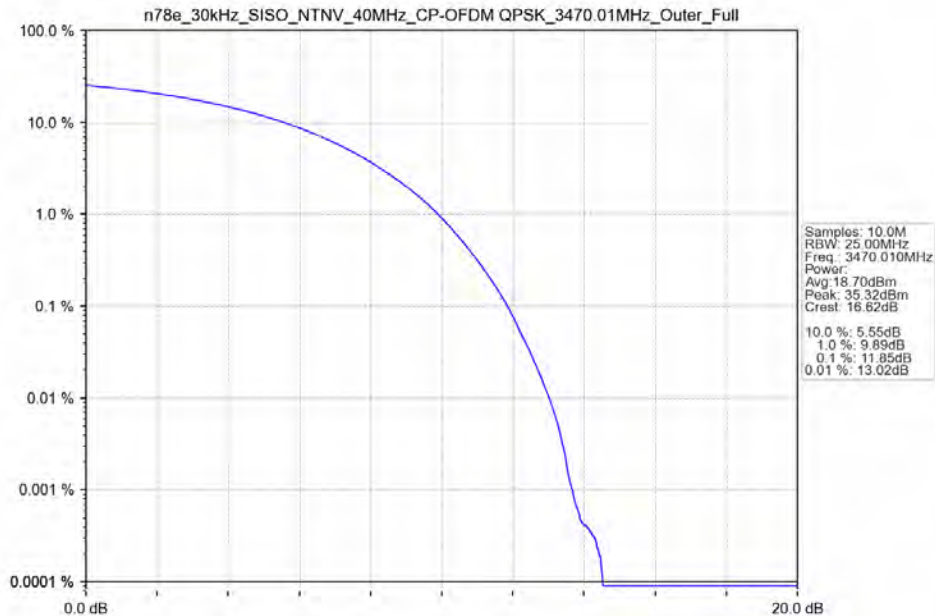


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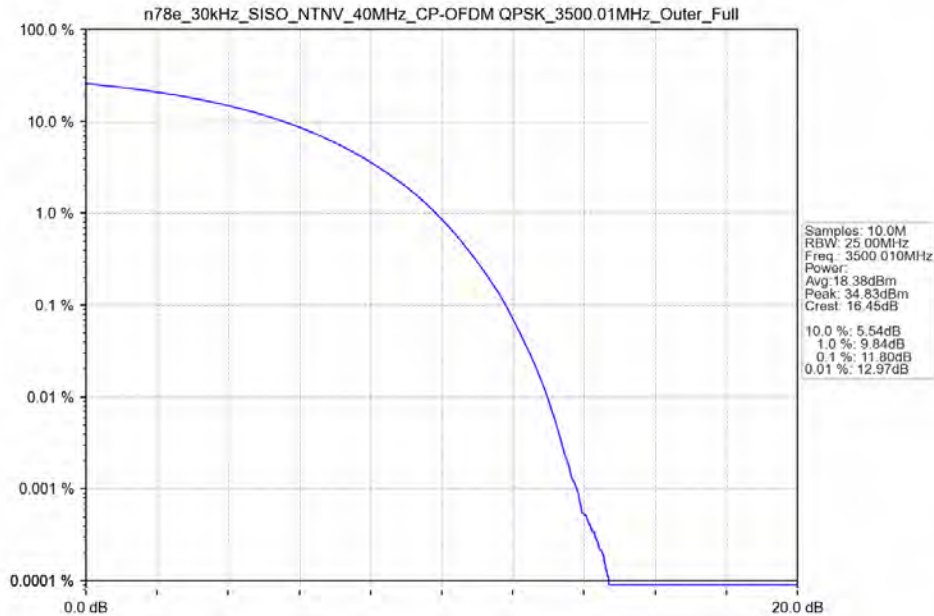
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n78e_30kHz_SISO_NTNV_40MHz_CP-OFDM QPSK_3529.98MHz_Outer_Full



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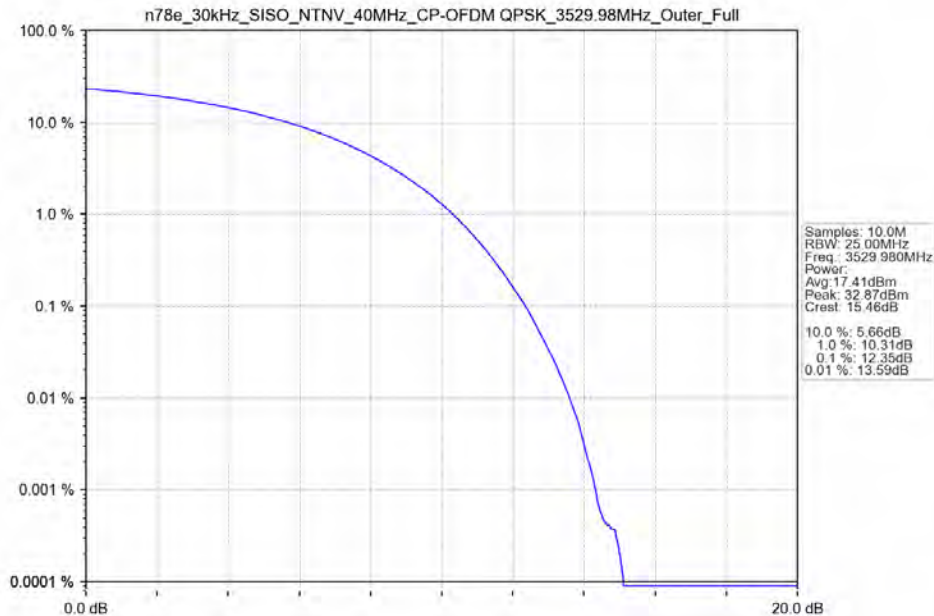


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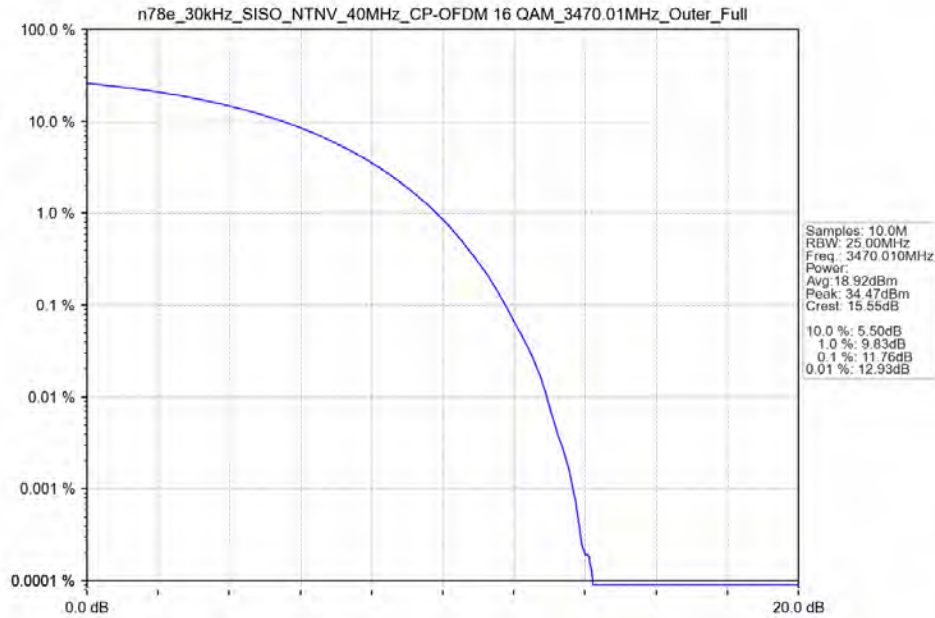
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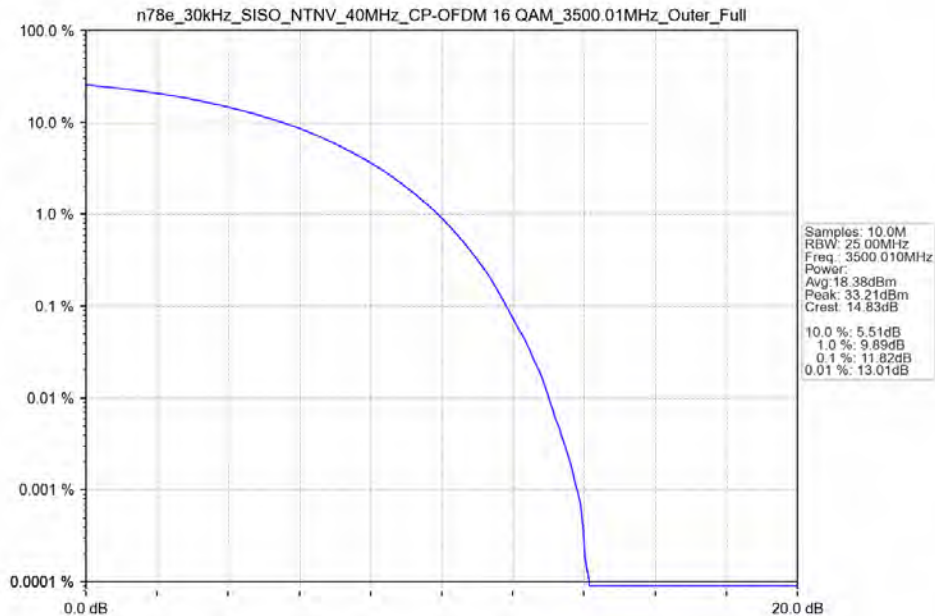


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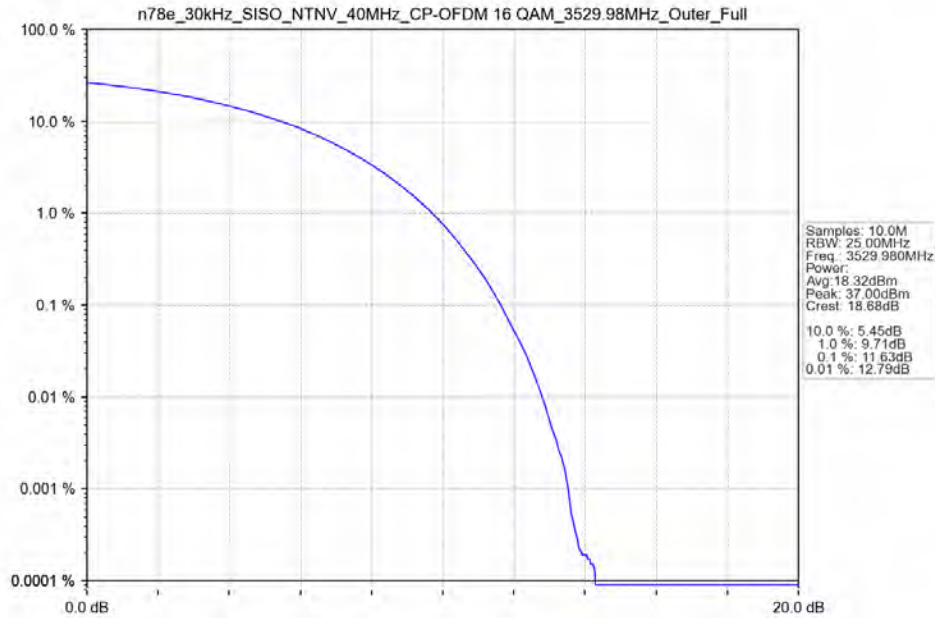
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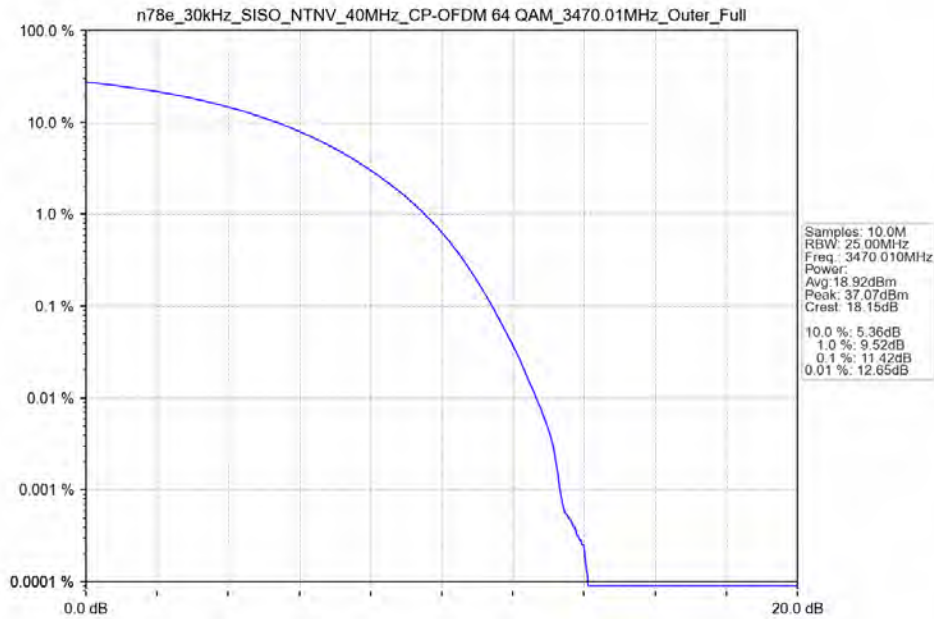


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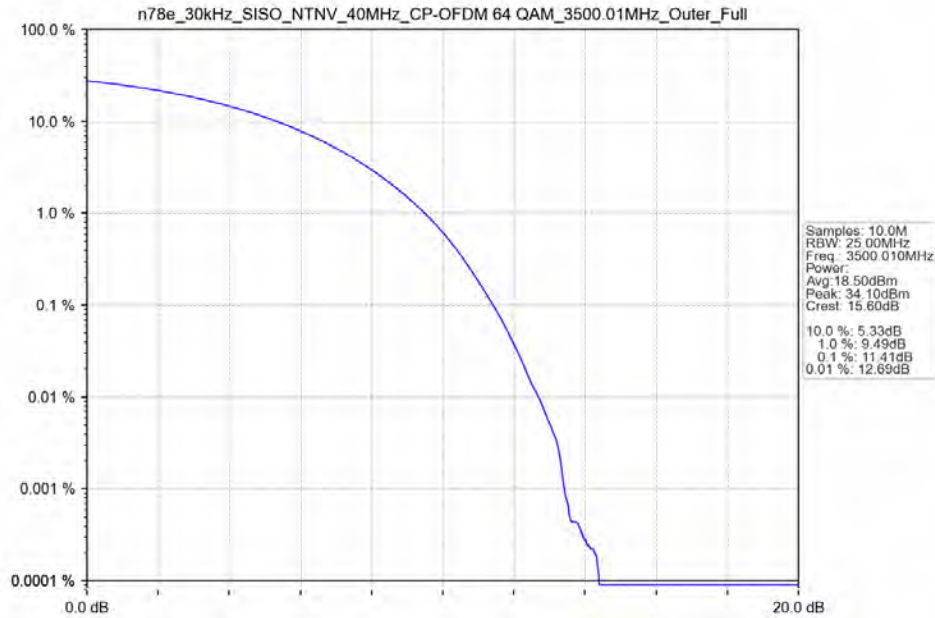
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n78e_30kHz_SISO_NTNV_40MHz_CP-OFDM 64 QAM_3500.01MHz_Outer_Full



n78e_30kHz_SISO_NTNV_40MHz_CP-OFDM 64 QAM_3529.98MHz_Outer_Full



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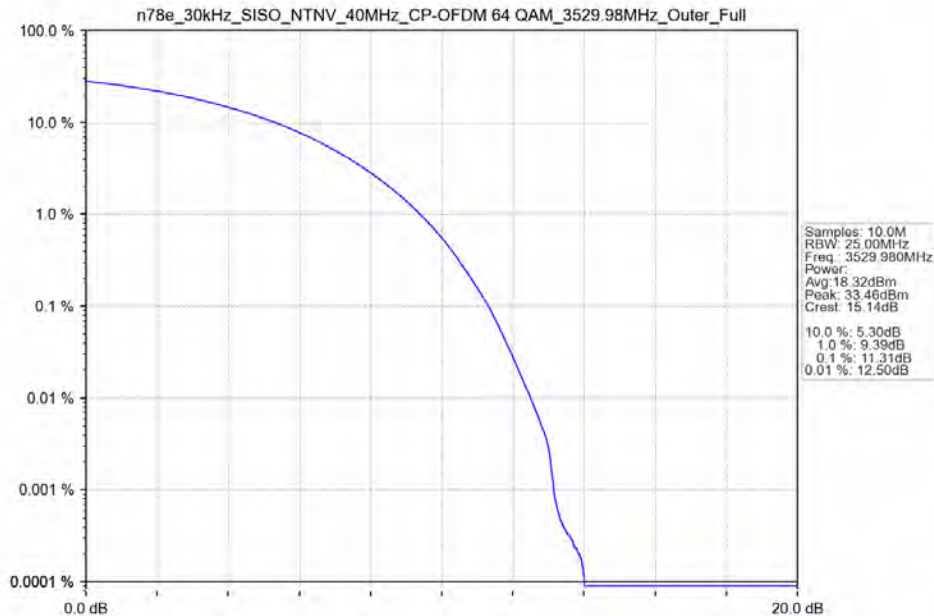


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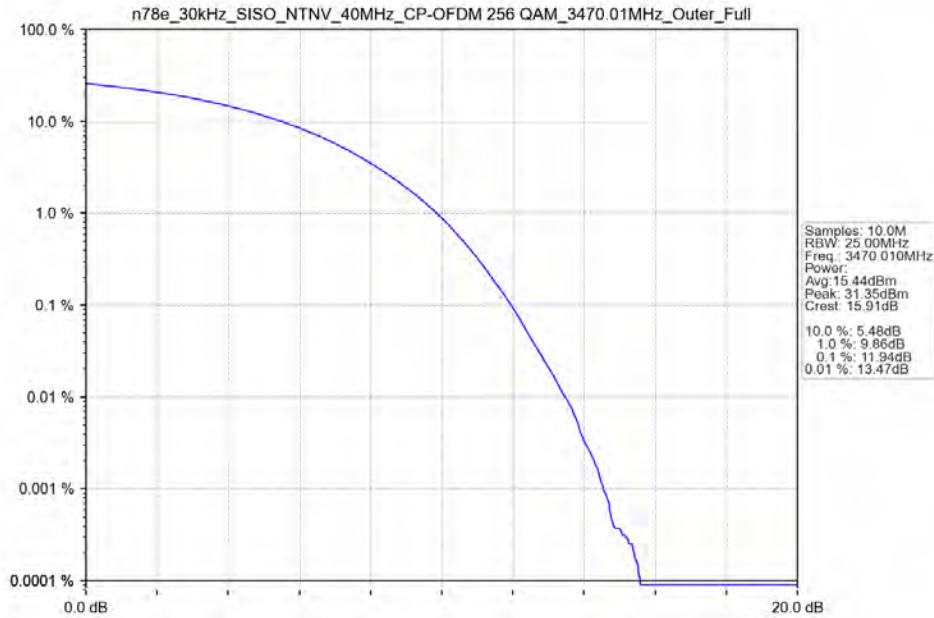
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n78e_30kHz_SISO_NTNV_40MHz_CP-OFDM_256_QAM_3470.01MHz_Outer_Full



n78e_30kHz_SISO_NTNV_40MHz_CP-OFDM_256_QAM_3500.01MHz_Outer_Full



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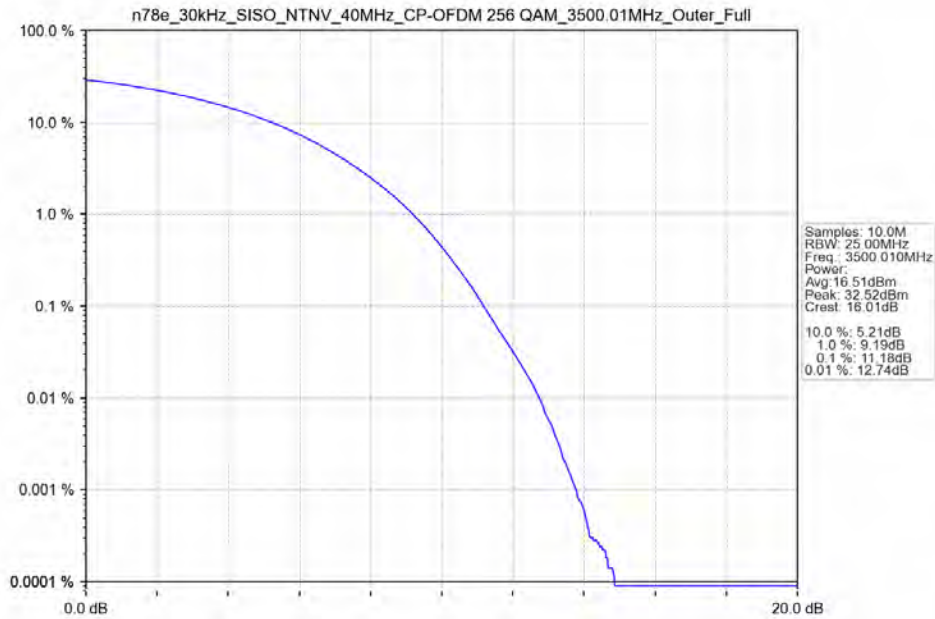


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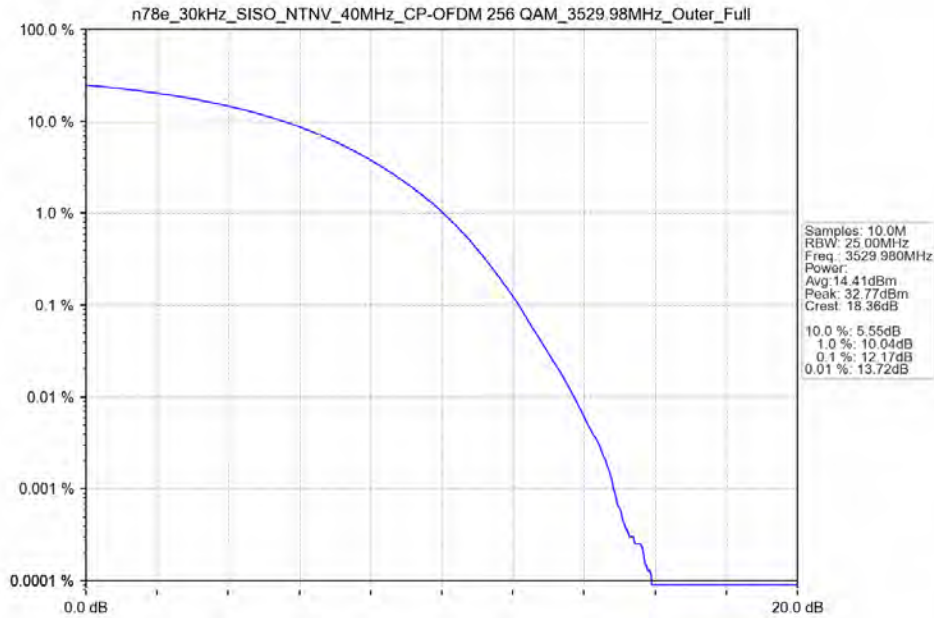
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n78e_30kHz_SISO_NTNV_40MHz_CP-OFDM_256_QAM_3529.98MHz_Outer_Full



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4.4 30k_SISO_50MHz_NTNV

4.4.1 Test Result

5G NR n78e SCS=30kHz SISO 50MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant4	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3475.02	Outer Full	10.08	/	/	<=13	Pass
	3500.01	Outer Full	10.01	/	/	<=13	Pass
	3525	Outer Full	10.61	/	/	<=13	Pass
DFT-s-OFDM QPSK	3475.02	Outer Full	10.34	/	/	<=13	Pass
	3500.01	Outer Full	10.23	/	/	<=13	Pass
	3525	Outer Full	10.27	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3475.02	Outer Full	10.41	/	/	<=13	Pass
	3500.01	Outer Full	10.60	/	/	<=13	Pass
	3525	Outer Full	10.53	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3475.02	Outer Full	10.91	/	/	<=13	Pass
	3500.01	Outer Full	11.25	/	/	<=13	Pass
	3525	Outer Full	10.66	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3475.02	Outer Full	10.59	/	/	<=13	Pass
	3500.01	Outer Full	11.18	/	/	<=13	Pass
	3525	Outer Full	11.81	/	/	<=13	Pass
CP-OFDM QPSK	3475.02	Outer Full	12.10	/	/	<=13	Pass
	3500.01	Outer Full	12.89	/	/	<=13	Pass
	3525	Outer Full	11.32	/	/	<=13	Pass
CP-OFDM 16 QAM	3475.02	Outer Full	11.69	/	/	<=13	Pass
	3500.01	Outer Full	11.18	/	/	<=13	Pass
	3525	Outer Full	8.39	/	/	<=13	Pass
CP-OFDM 64 QAM	3475.02	Outer Full	12.34	/	/	<=13	Pass
	3500.01	Outer Full	12.08	/	/	<=13	Pass
	3525	Outer Full	12.60	/	/	<=13	Pass
CP-OFDM 256 QAM	3475.02	Outer Full	12.56	/	/	<=13	Pass
	3500.01	Outer Full	12.01	/	/	<=13	Pass
	3525	Outer Full	12.24	/	/	<=13	Pass



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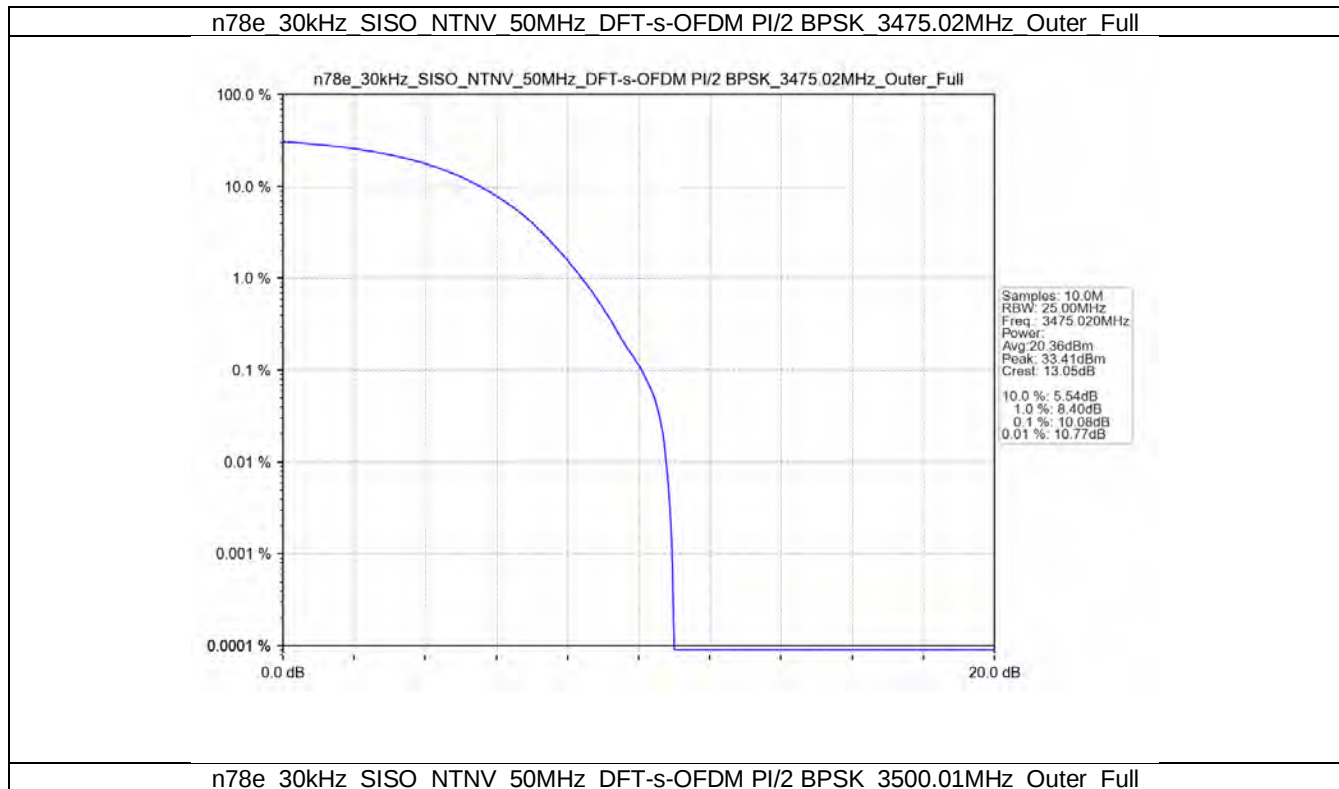
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4.4.2 Test Graph



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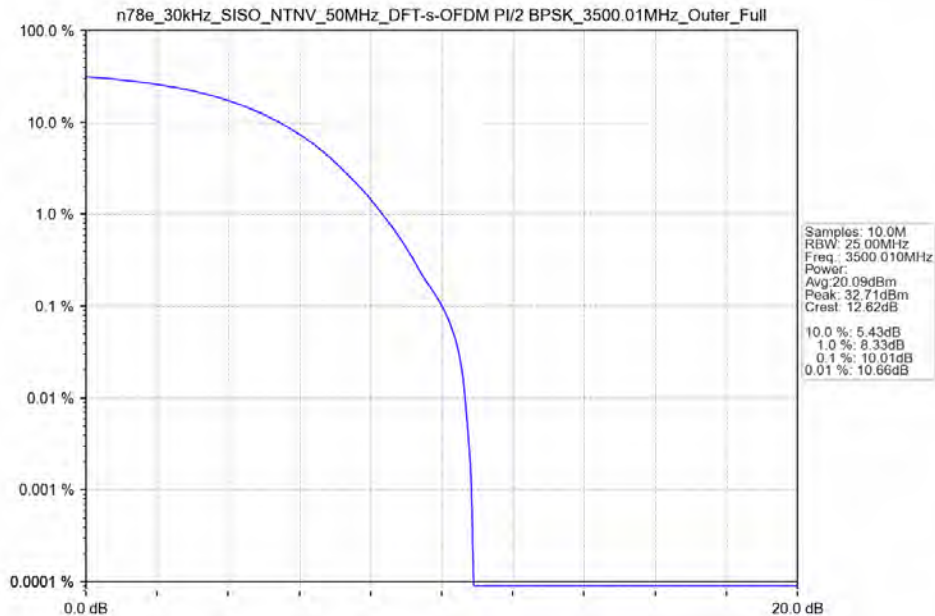


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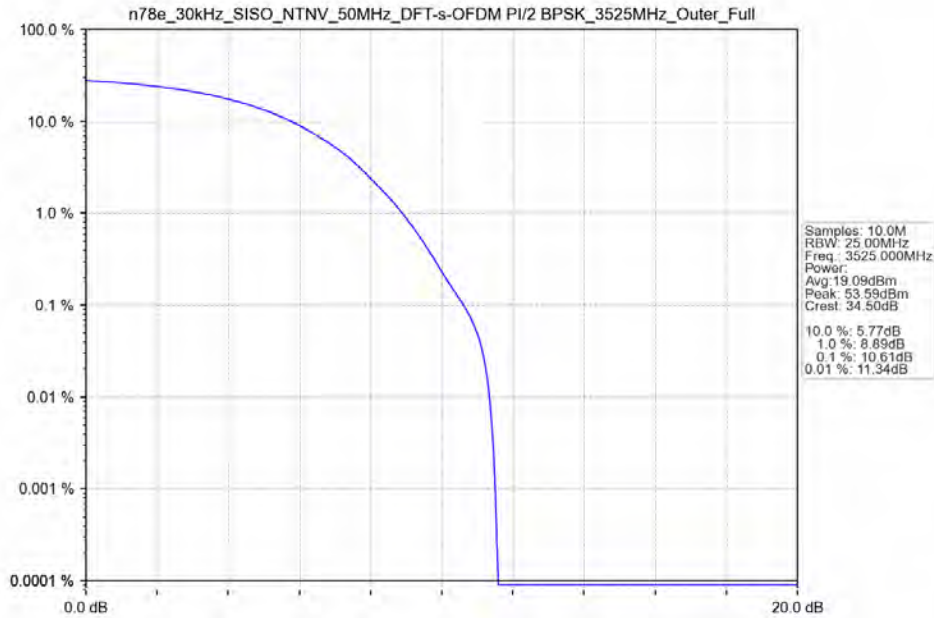
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n78e_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM PI/2 BPSK_3525MHz_Outer_Full



n78e_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM QPSK_3475.02MHz_Outer_Full



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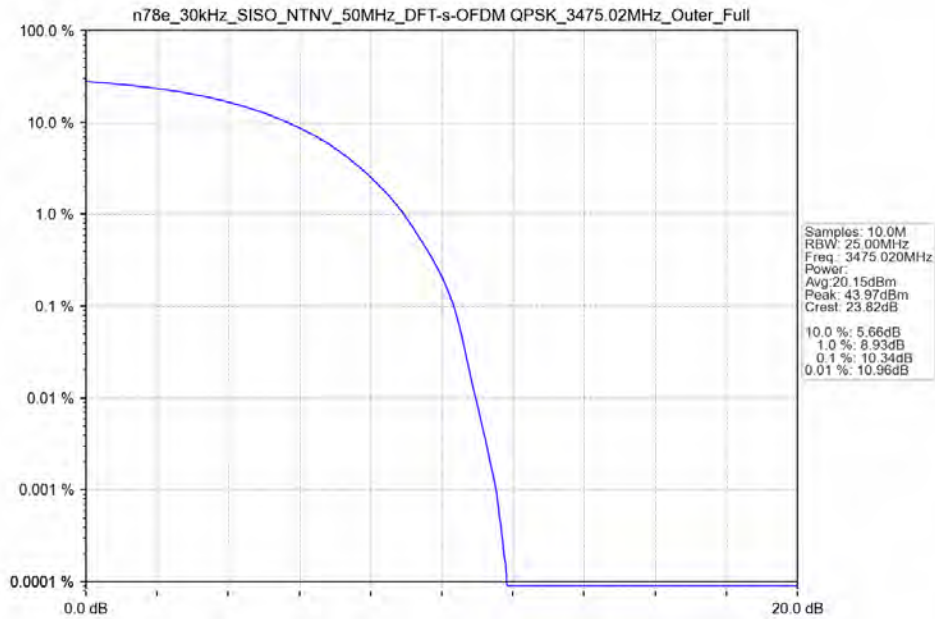


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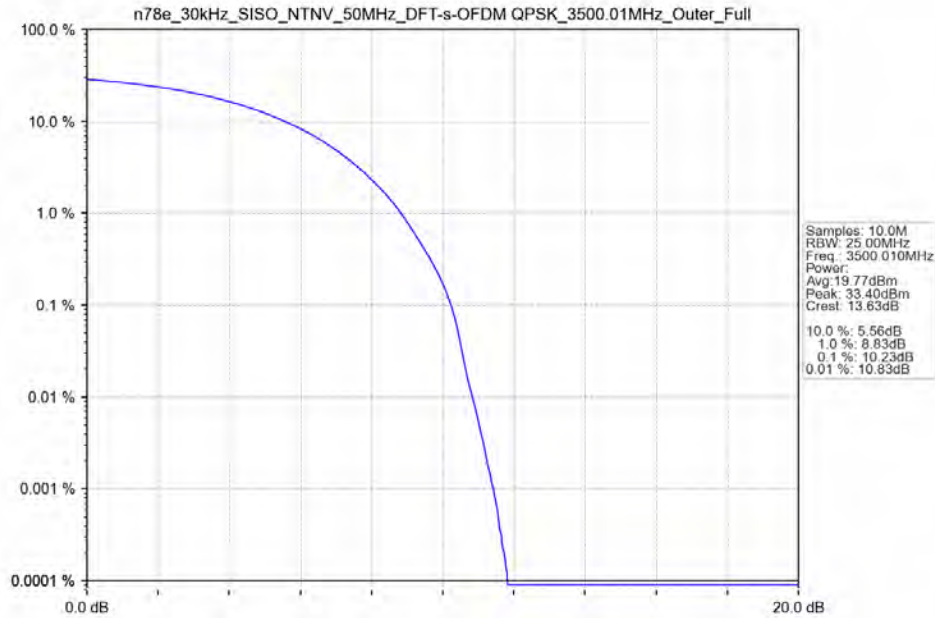
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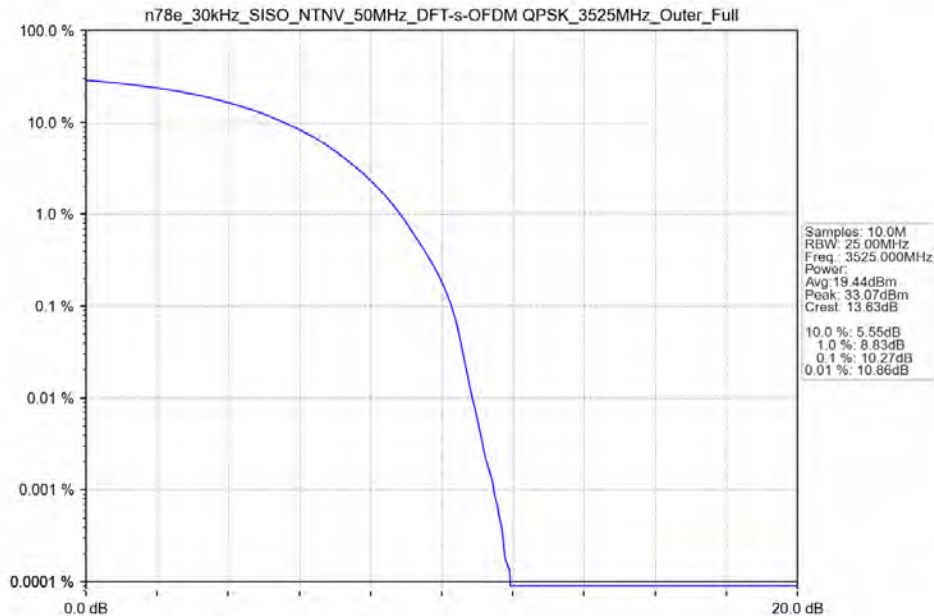


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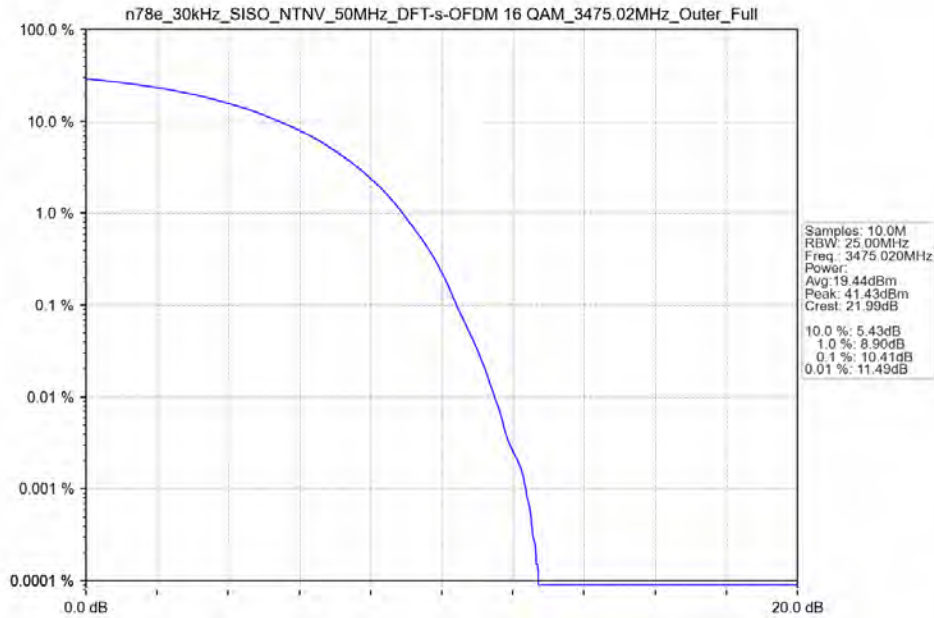
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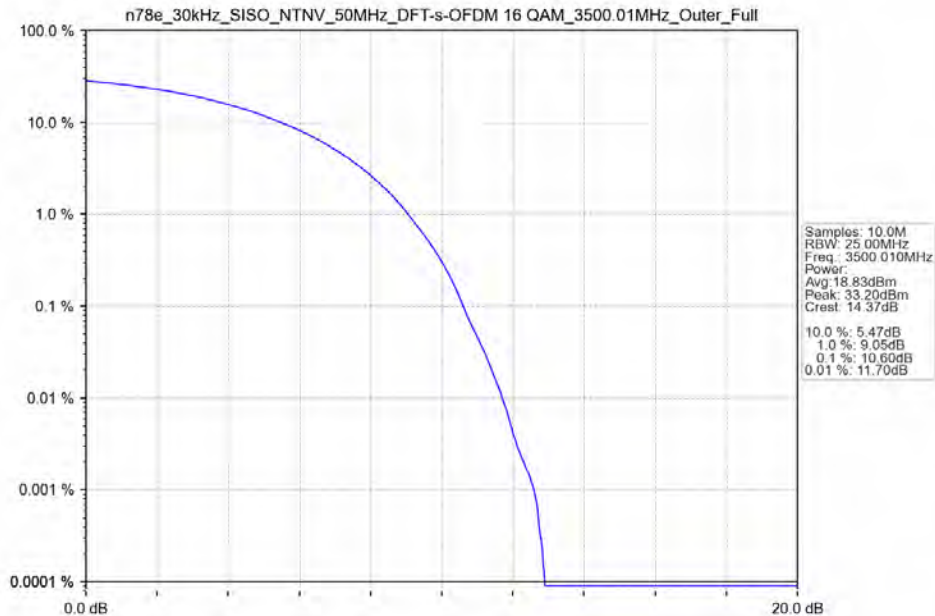


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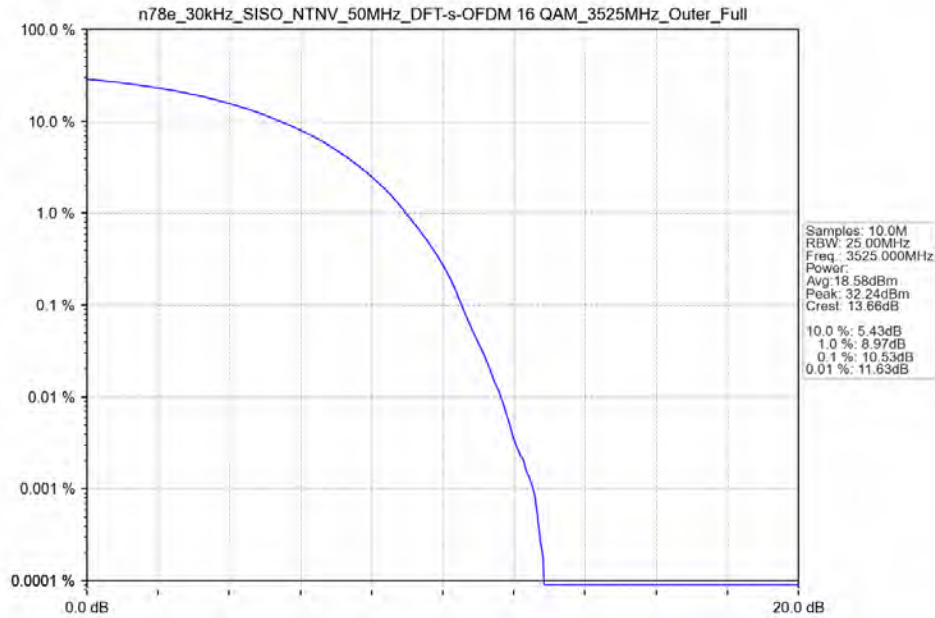
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n78e_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM 16 QAM_3525MHz_Outer_Full



n78e_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM 64 QAM_3475.02MHz_Outer_Full



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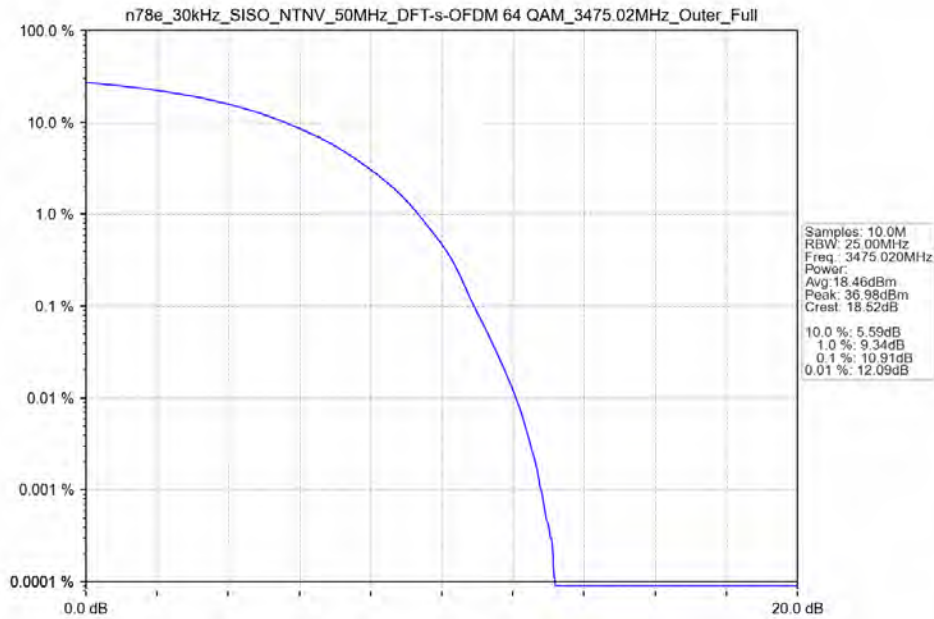


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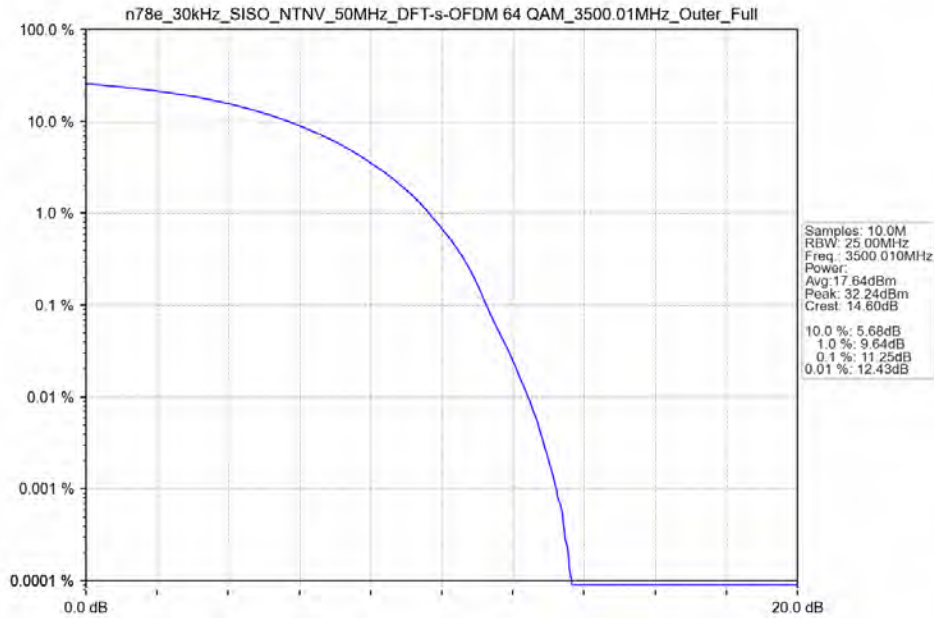
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n78e_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM 64 QAM_3525MHz_Outer_Full



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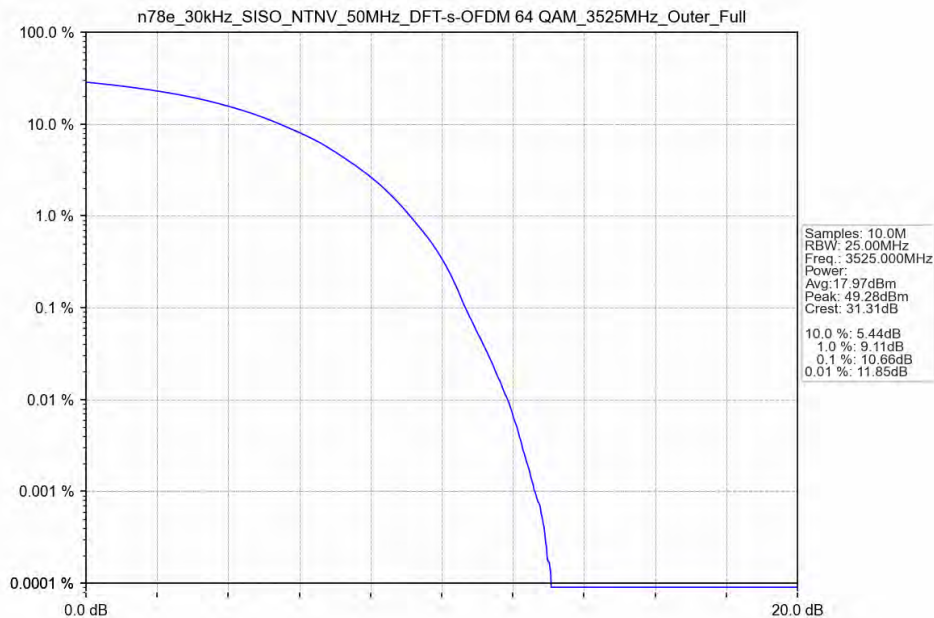


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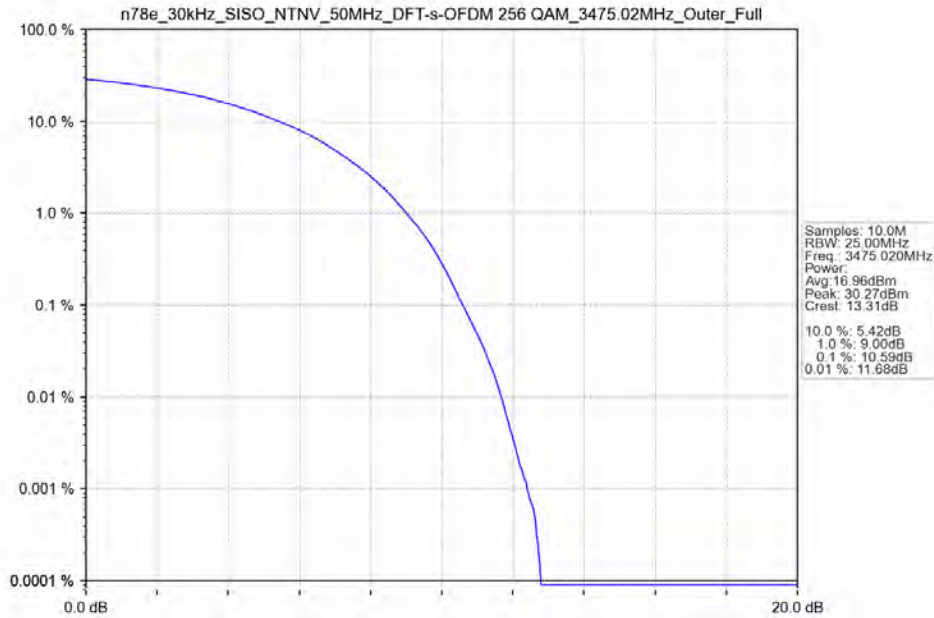
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n78e_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM_256_QAM_3500.01MHz_Outer_Full



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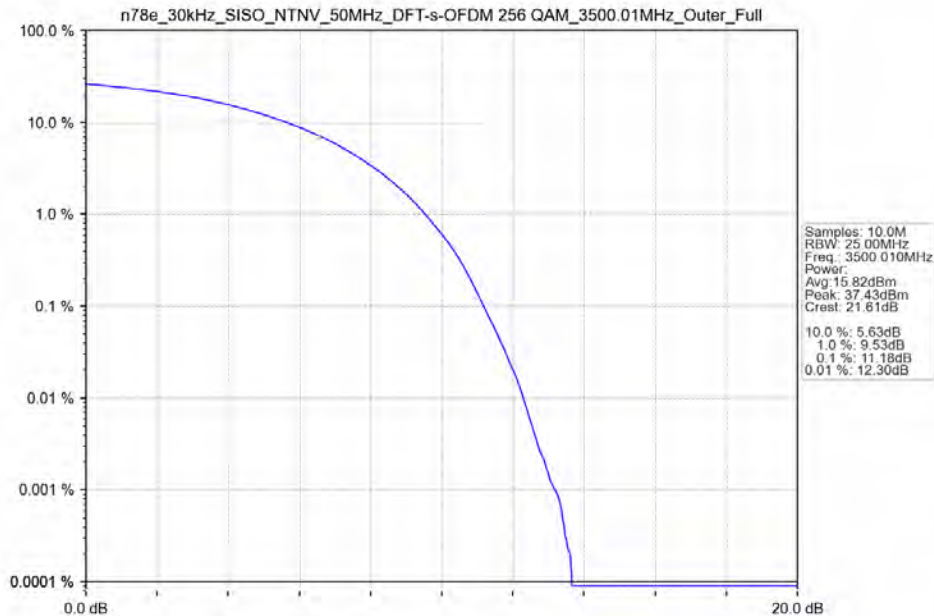


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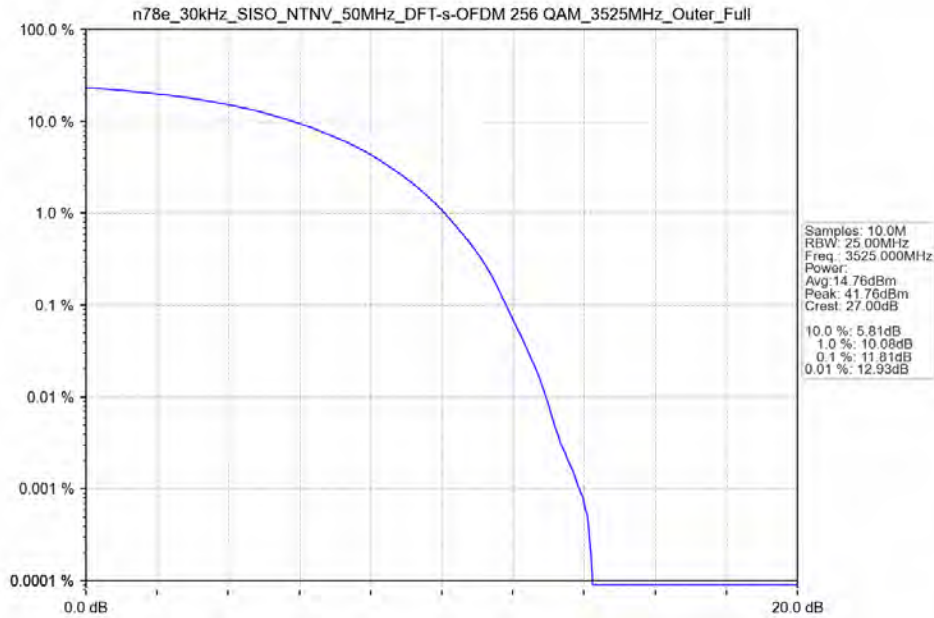
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n78e_30kHz_SISO_NTNV_50MHz_CP-OFDM_QPSK_3475.02MHz_Outer_Full



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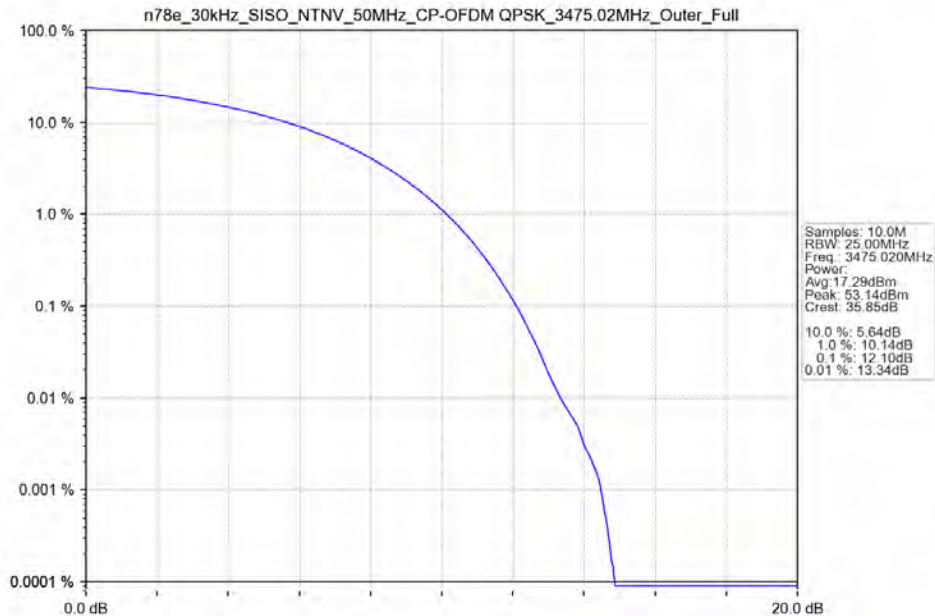


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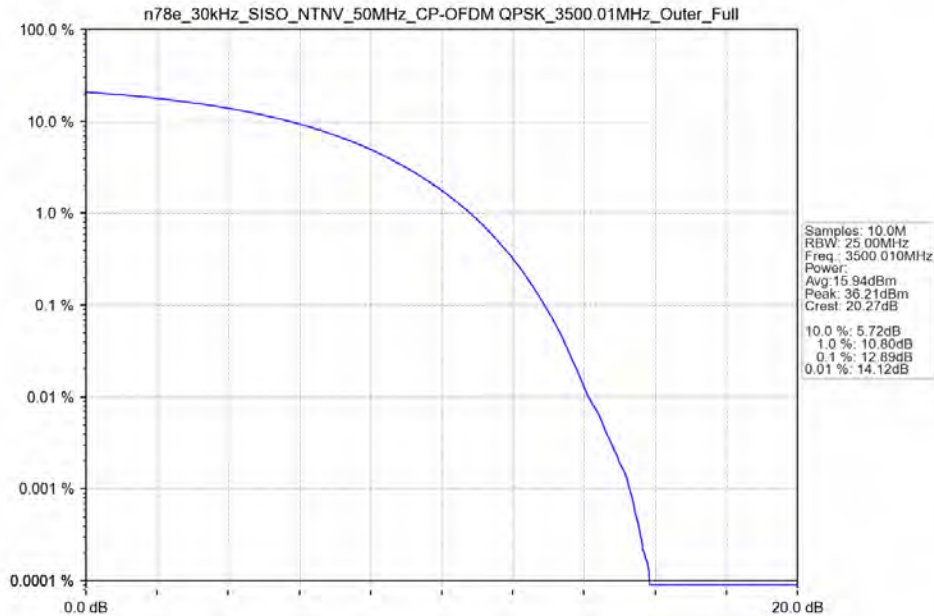
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n78e_30kHz_SISO_NTNV_50MHz_CP-OFDM QPSK_3525MHz_Outer_Full



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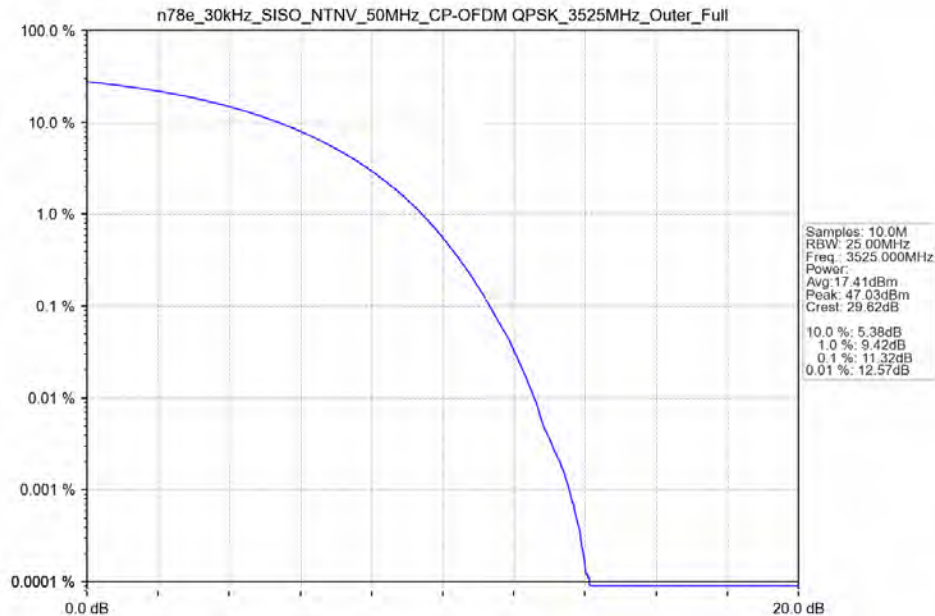


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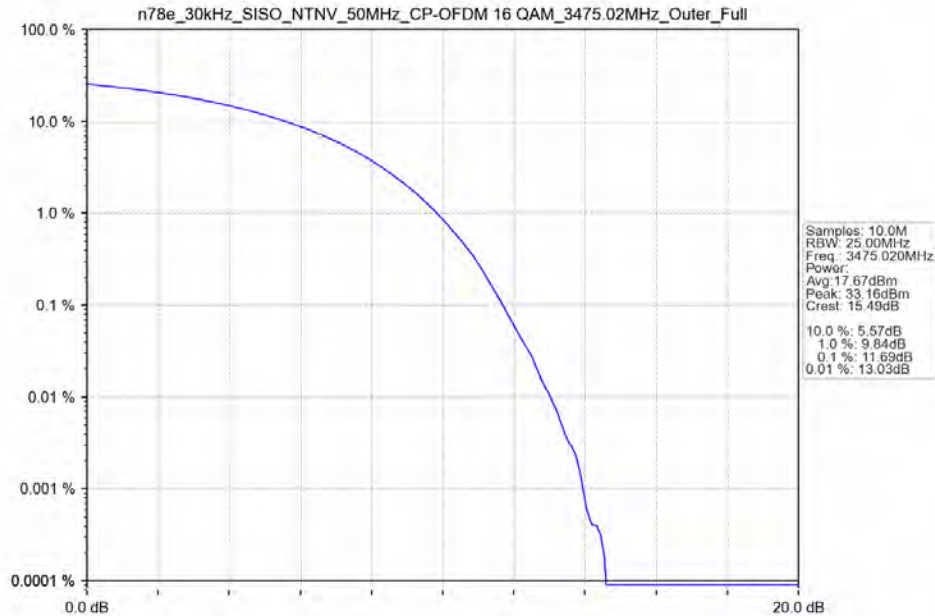
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n78e_30kHz_SISO_NTNV_50MHz_CP-OFDM 16 QAM_3500.01MHz_Outer_Full



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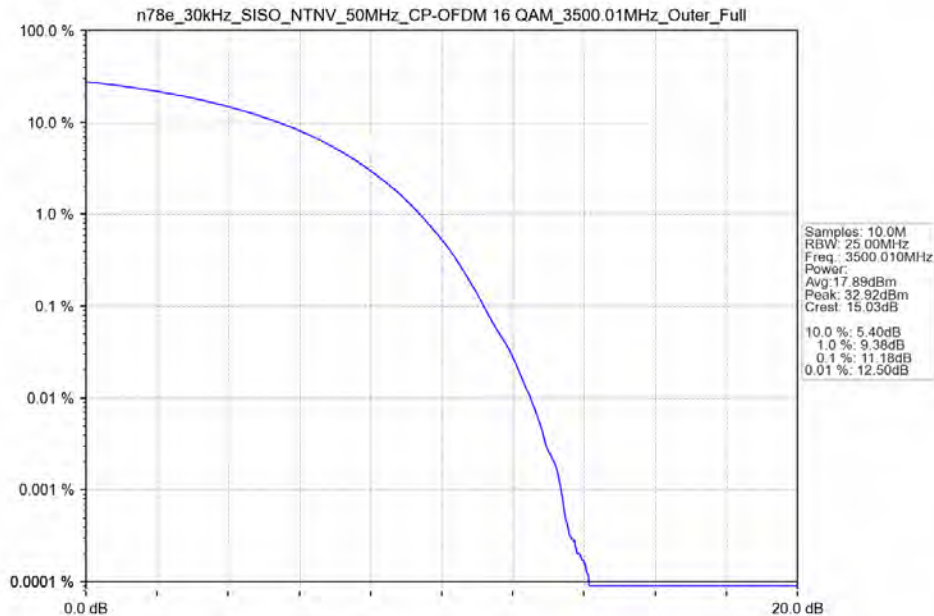


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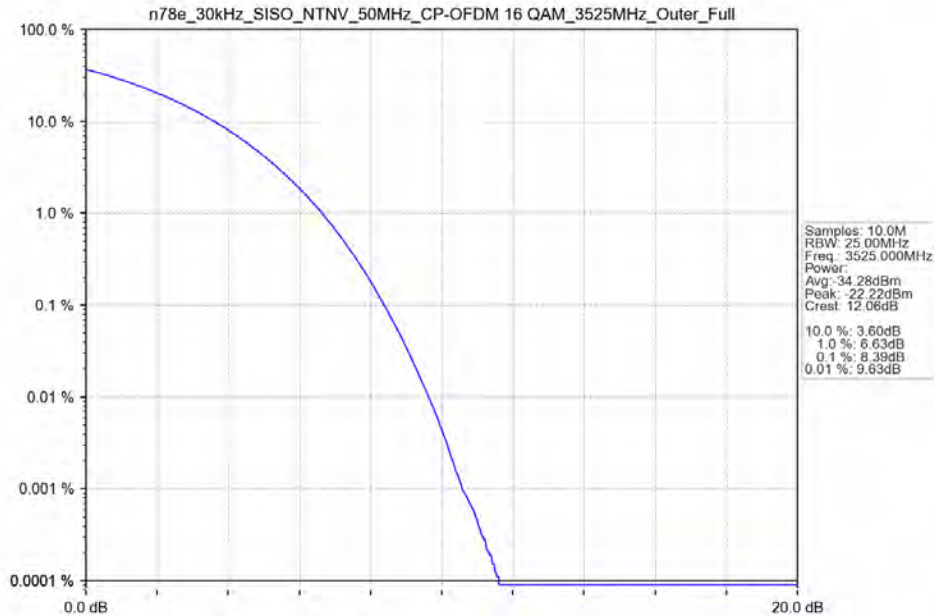
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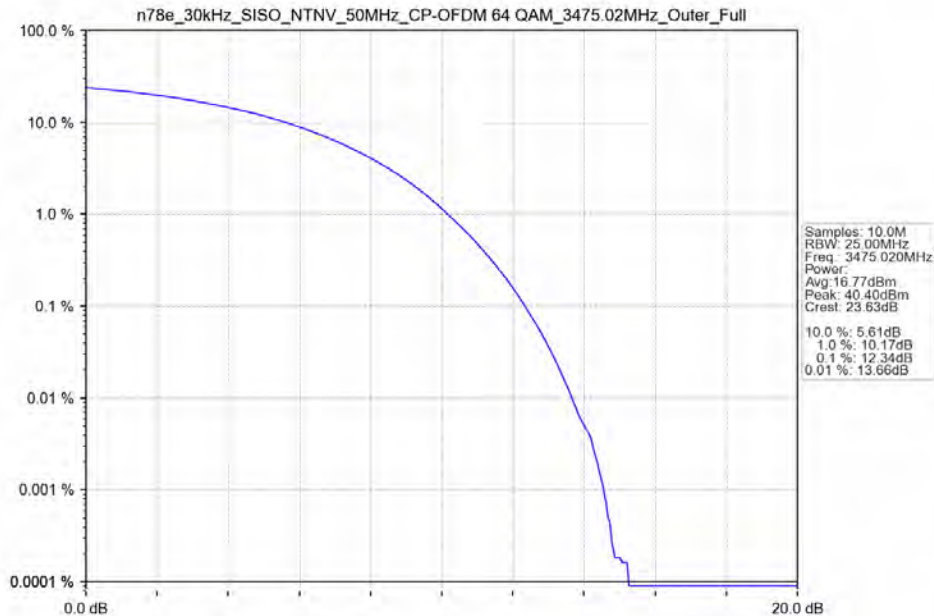


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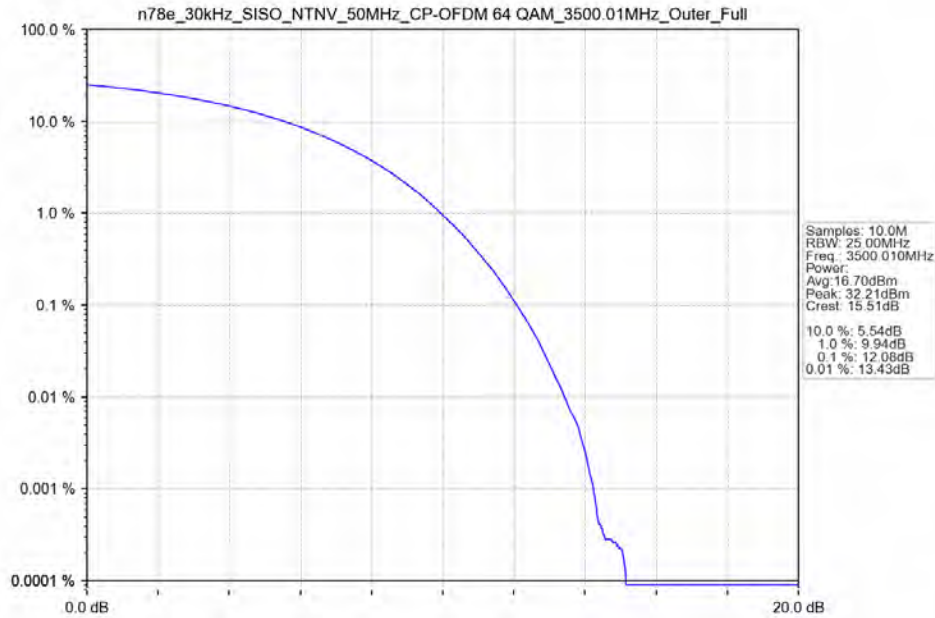
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n78e_30kHz_SISO_NTNV_50MHz_CP-OFDM 64 QAM_3500.01MHz_Outer_Full



n78e_30kHz_SISO_NTNV_50MHz_CP-OFDM 64 QAM_3525MHz_Outer_Full



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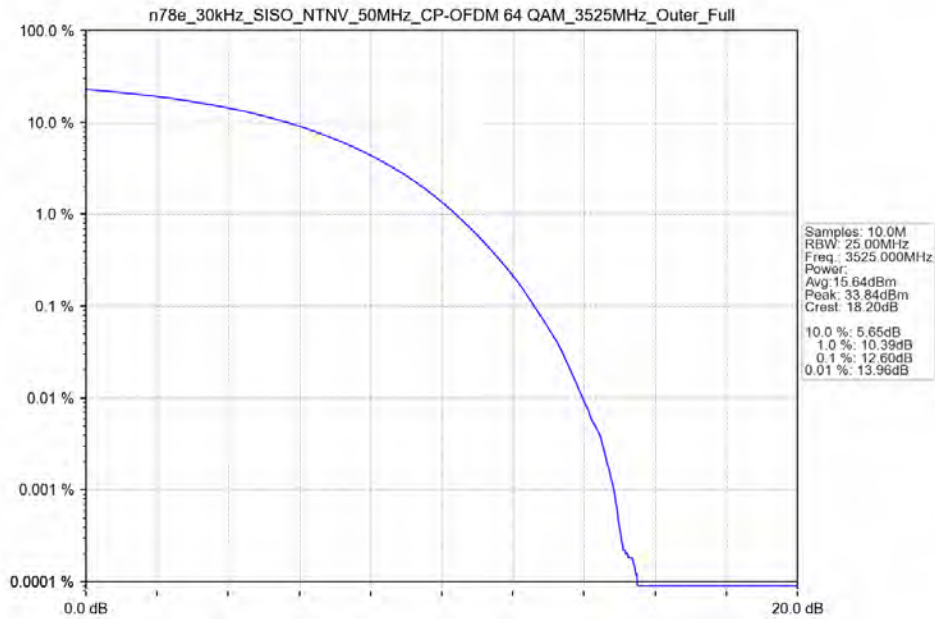


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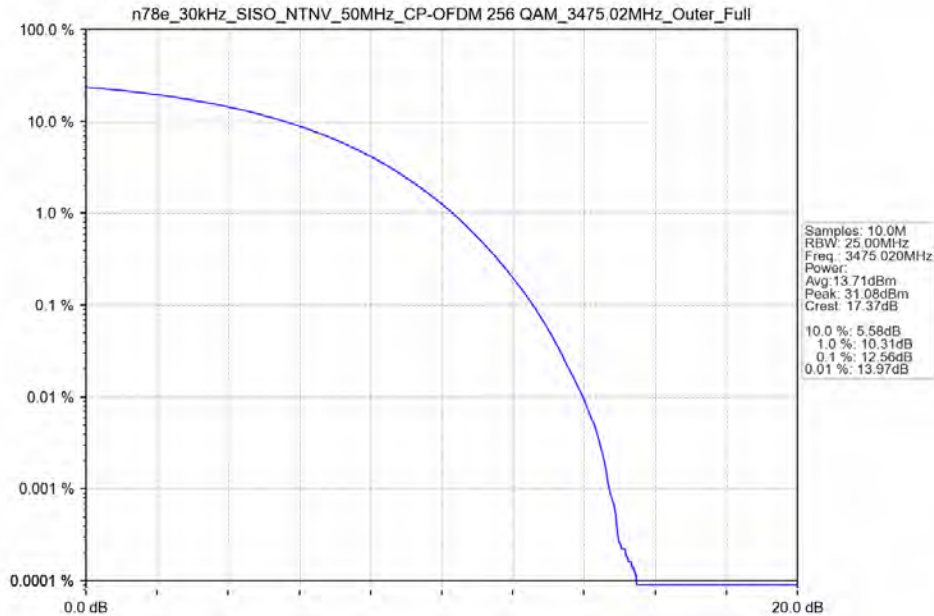
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n78e_30kHz_SISO_NTNV_50MHz_CP-OFDM_256_QAM_3475.02MHz_Outer_Full



n78e_30kHz_SISO_NTNV_50MHz_CP-OFDM_256_QAM_3500.01MHz_Outer_Full



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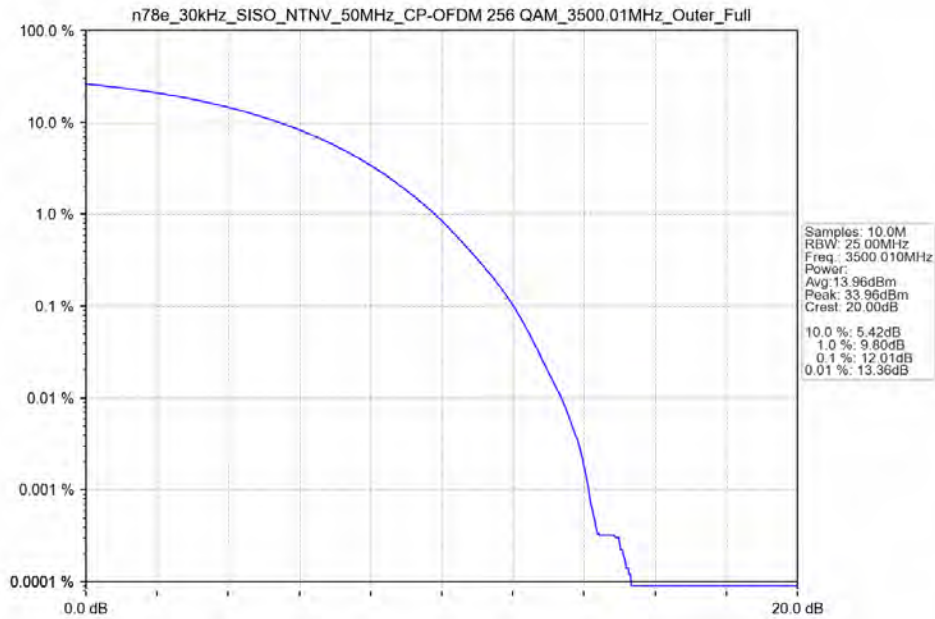


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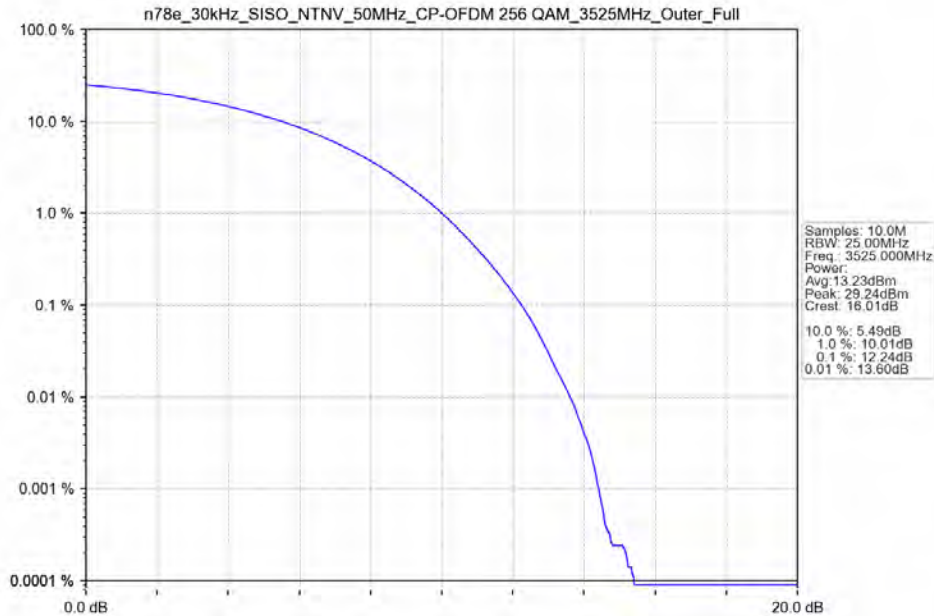
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n78e_30kHz_SISO_NTNV_50MHz_CP-OFDM_256_QAM_3525MHz_Outer_Full



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4.5 30k_SISO_60MHz_NTNV

4.5.1 Test Result

5G NR n78e SCS=30kHz SISO 60MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant4	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3480	Outer Full	11.41	/	/	<=13	Pass
	3500.01	Outer Full	11.29	/	/	<=13	Pass
	3519.99	Outer Full	10.69	/	/	<=13	Pass
DFT-s-OFDM QPSK	3480	Outer Full	11.11	/	/	<=13	Pass
	3500.01	Outer Full	10.67	/	/	<=13	Pass
	3519.99	Outer Full	10.67	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3480	Outer Full	10.70	/	/	<=13	Pass
	3500.01	Outer Full	10.90	/	/	<=13	Pass
	3519.99	Outer Full	10.95	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3480	Outer Full	11.72	/	/	<=13	Pass
	3500.01	Outer Full	11.61	/	/	<=13	Pass
	3519.99	Outer Full	10.87	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3480	Outer Full	10.53	/	/	<=13	Pass
	3500.01	Outer Full	10.43	/	/	<=13	Pass
	3519.99	Outer Full	11.84	/	/	<=13	Pass
CP-OFDM QPSK	3480	Outer Full	11.39	/	/	<=13	Pass
	3500.01	Outer Full	12.11	/	/	<=13	Pass
	3519.99	Outer Full	11.84	/	/	<=13	Pass
CP-OFDM 16 QAM	3480	Outer Full	11.54	/	/	<=13	Pass
	3500.01	Outer Full	11.96	/	/	<=13	Pass
	3519.99	Outer Full	12.19	/	/	<=13	Pass
CP-OFDM 64 QAM	3480	Outer Full	12.12	/	/	<=13	Pass
	3500.01	Outer Full	12.40	/	/	<=13	Pass
	3519.99	Outer Full	11.57	/	/	<=13	Pass
CP-OFDM 256 QAM	3480	Outer Full	11.62	/	/	<=13	Pass
	3500.01	Outer Full	11.89	/	/	<=13	Pass
	3519.99	Outer Full	11.87	/	/	<=13	Pass



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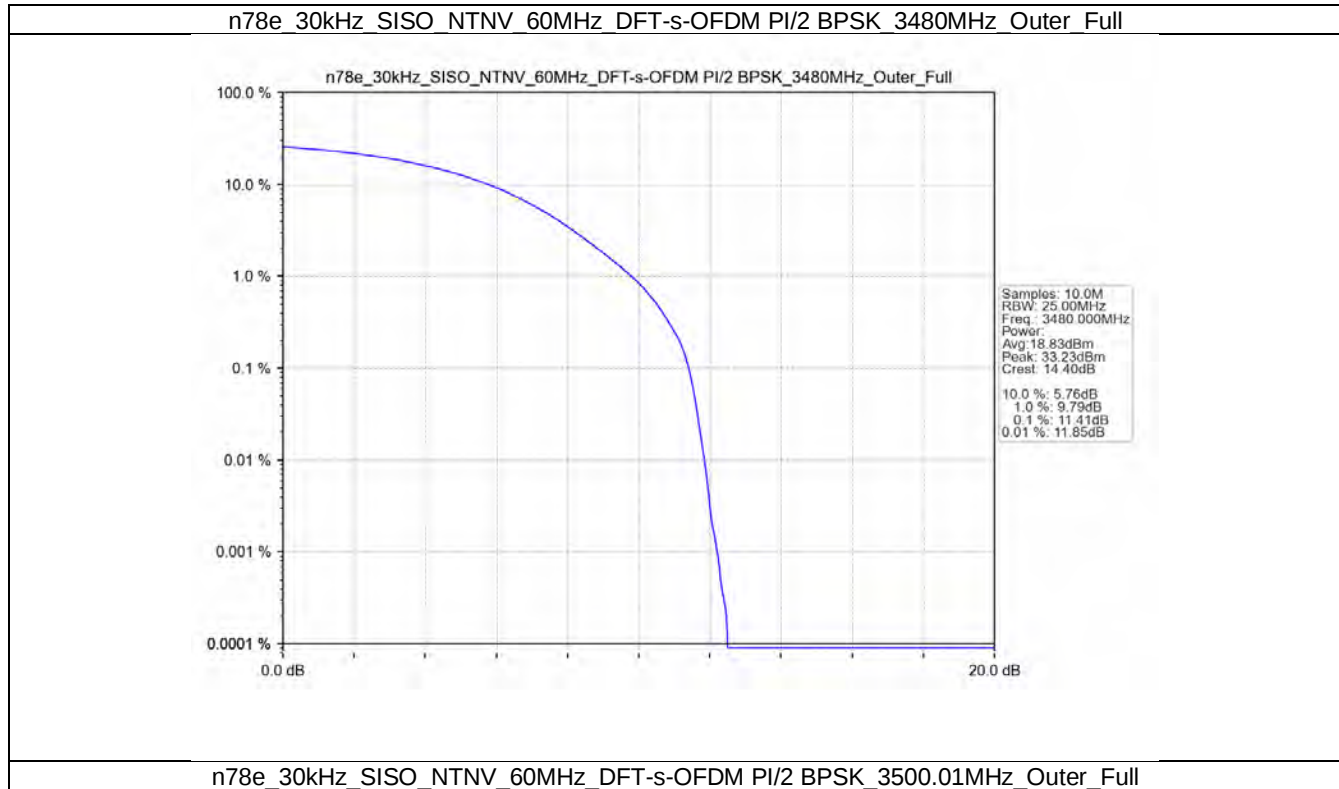
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4.5.2 Test Graph



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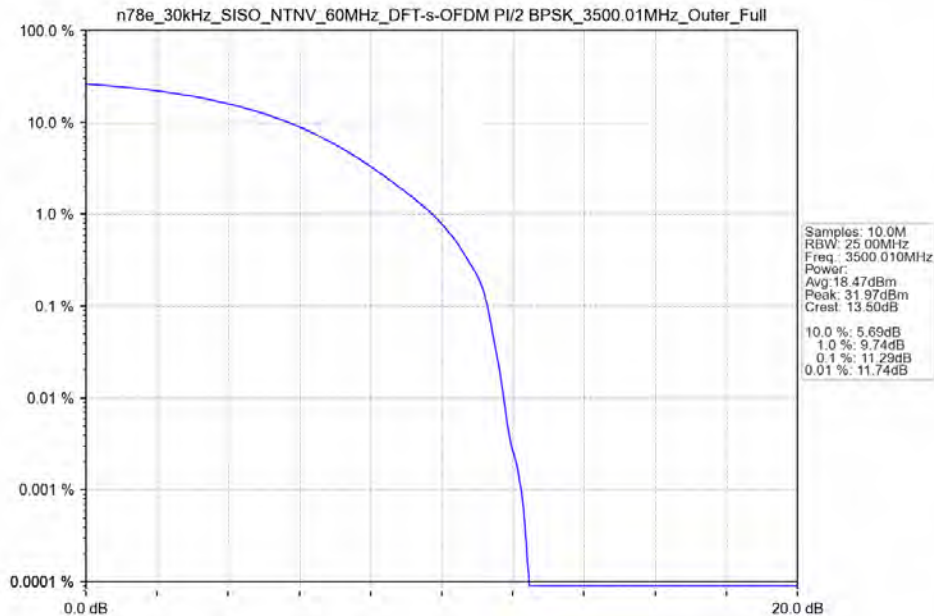


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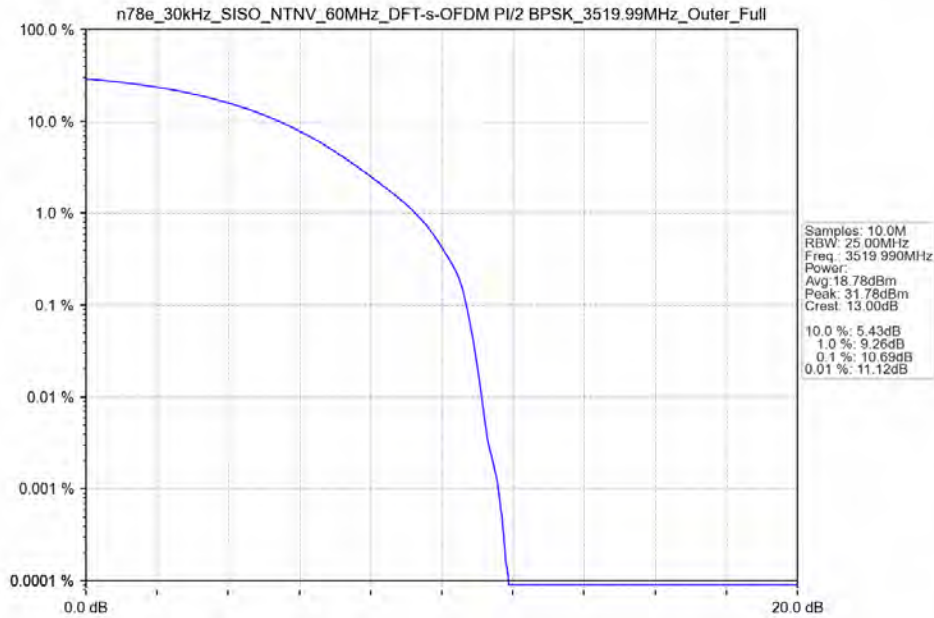
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n78e_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM PI/2 BPSK_3519.99MHz_Outer_Full



n78e_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM QPSK_3480MHz_Outer_Full



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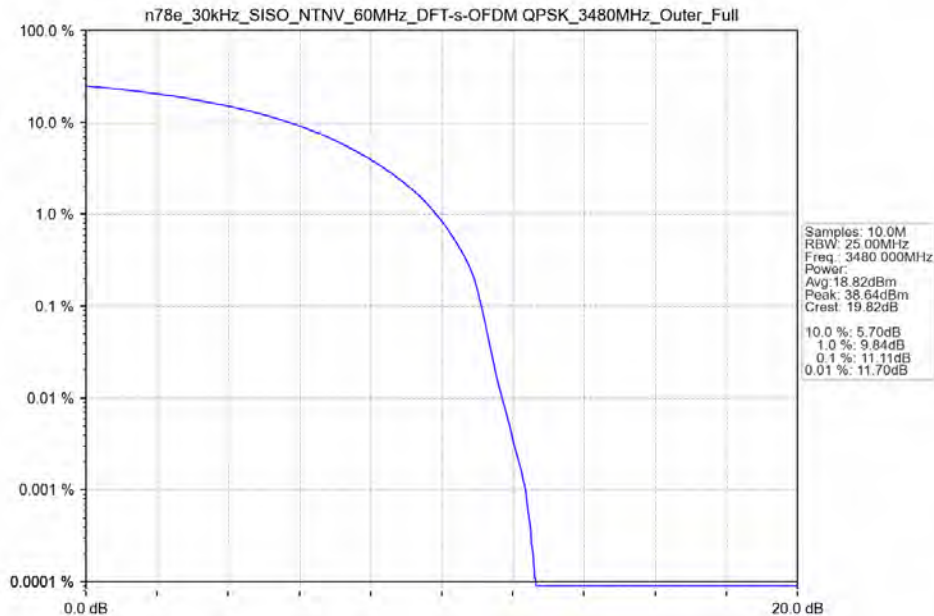


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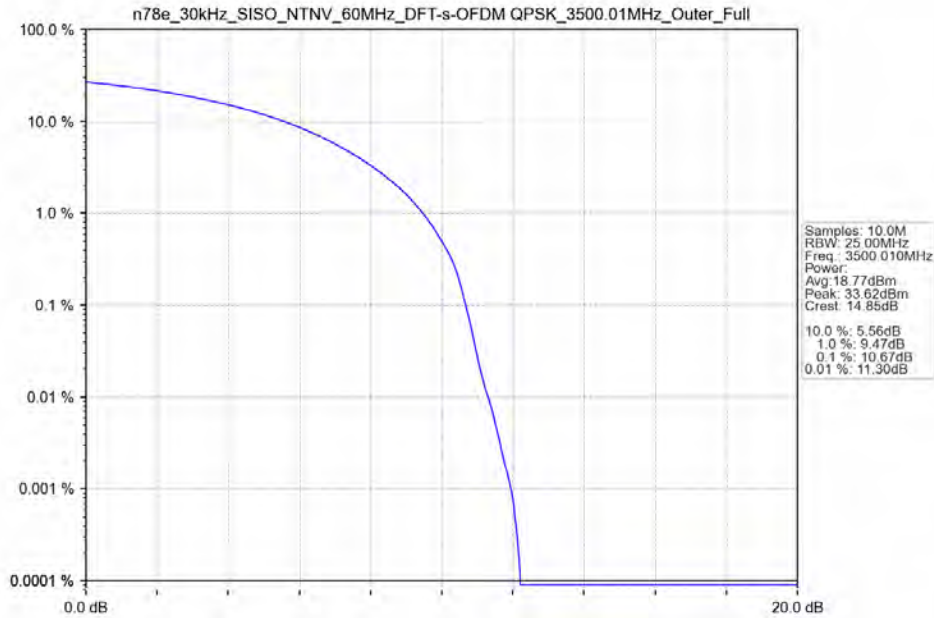
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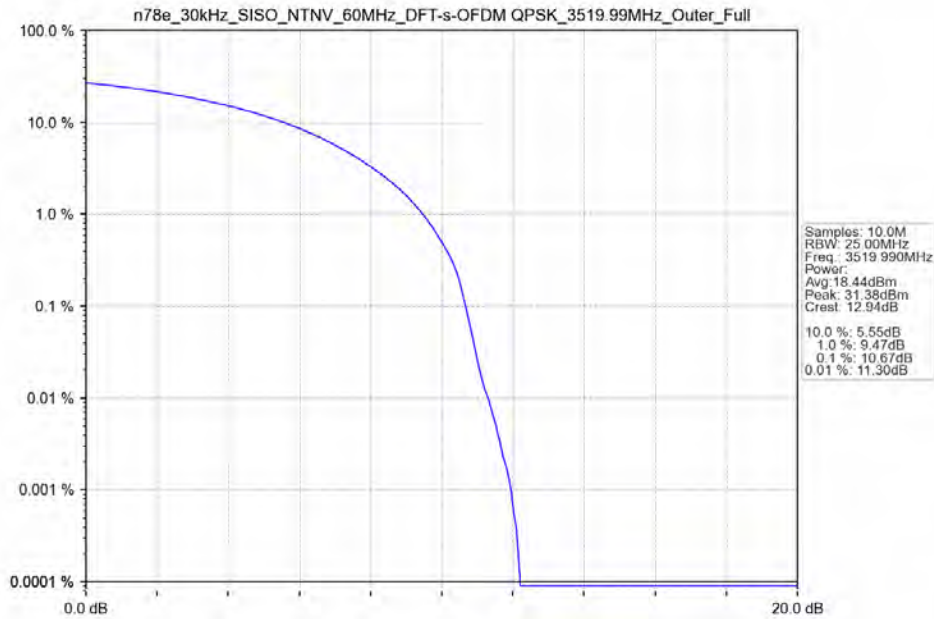


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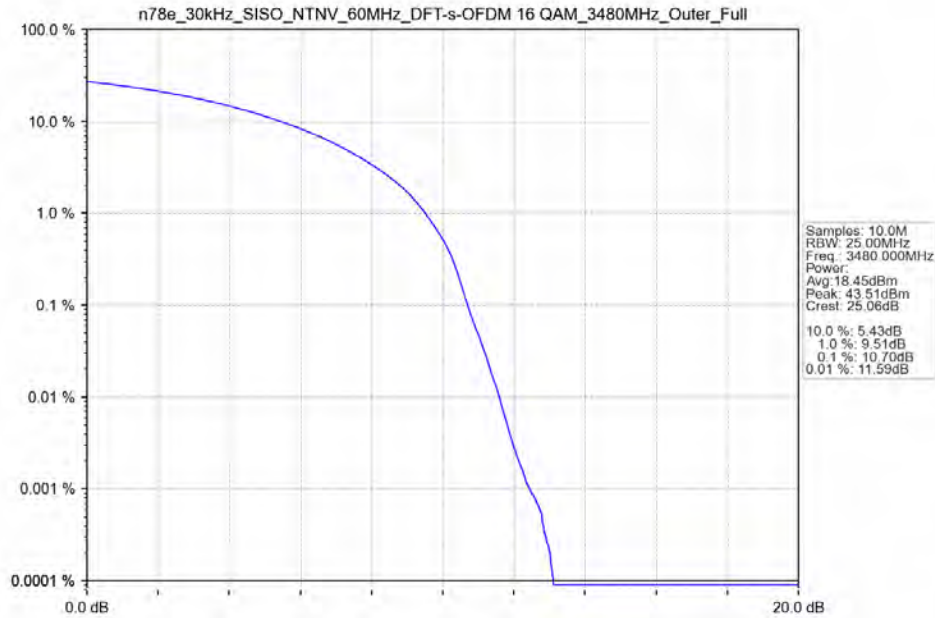
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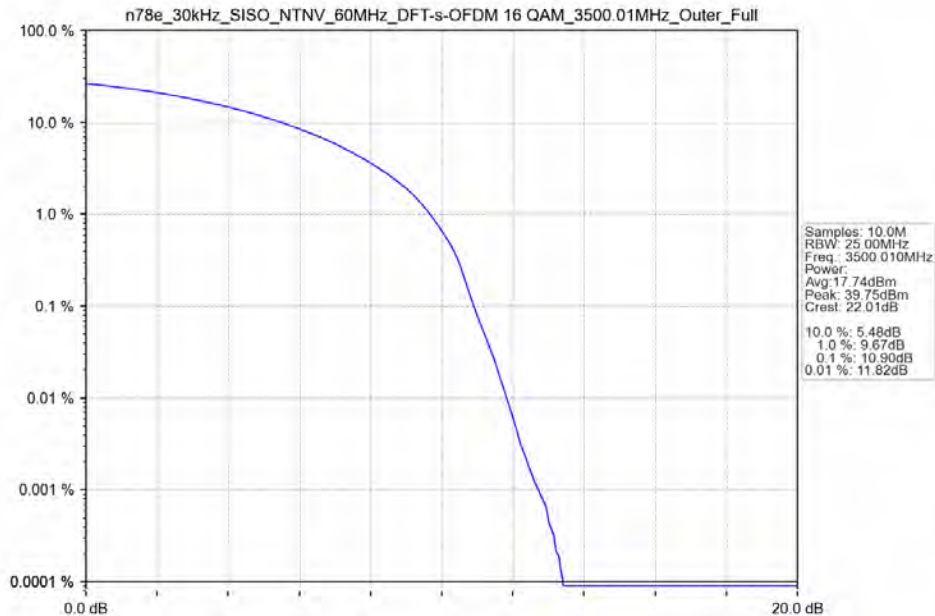


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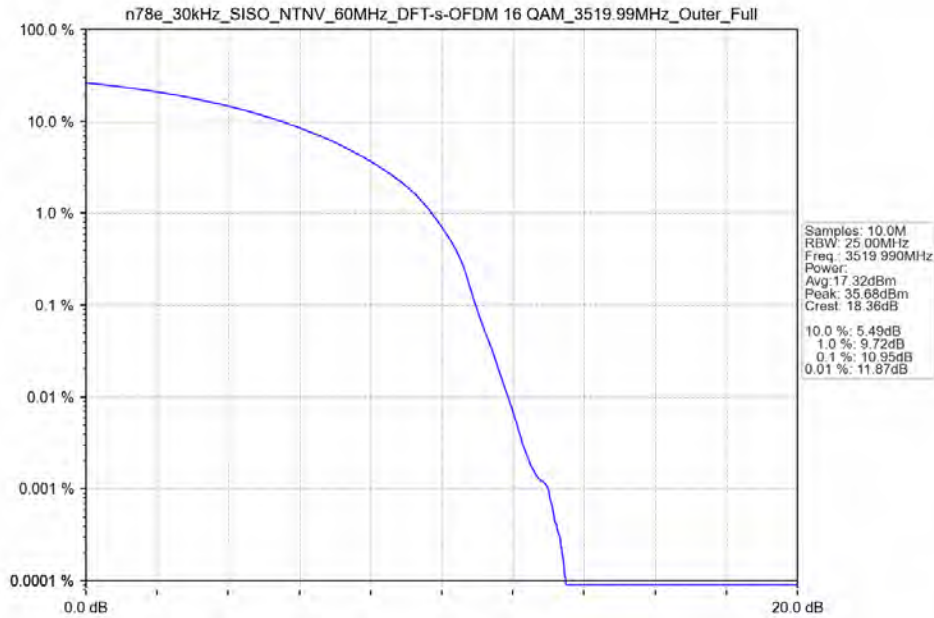
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n78e_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM 64 QAM_3480MHz_Outer_Full



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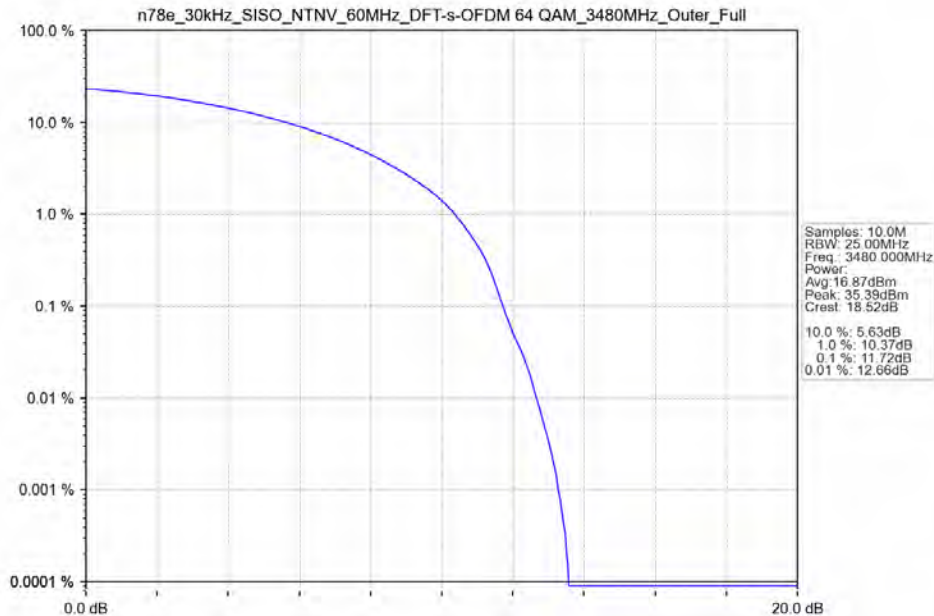


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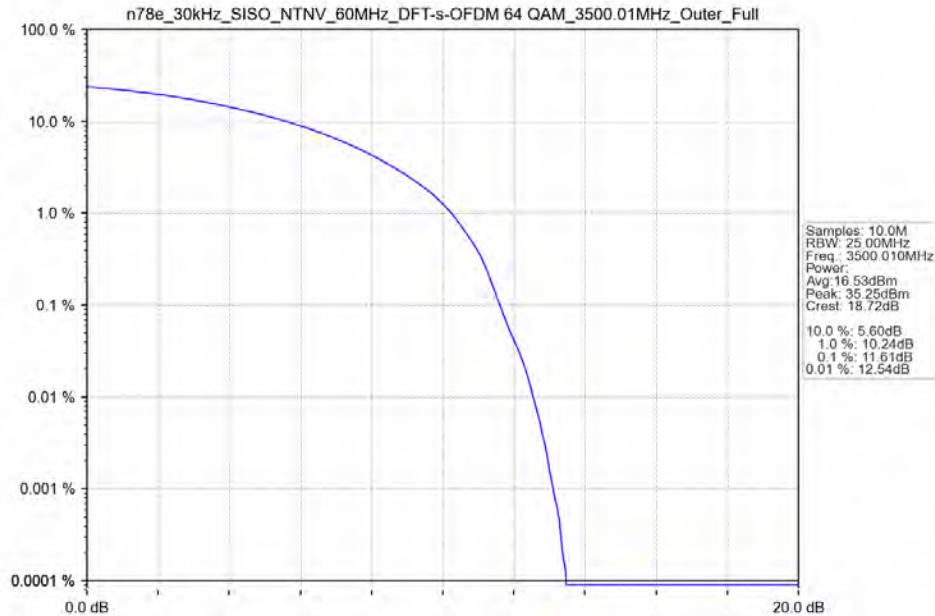
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n78e_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM 64 QAM_3519.99MHz_Outer_Full



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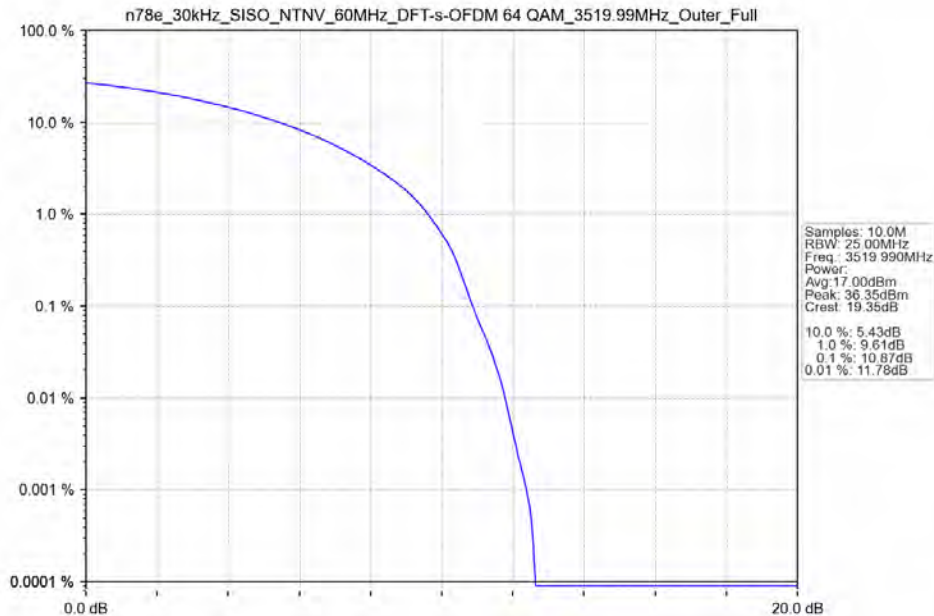


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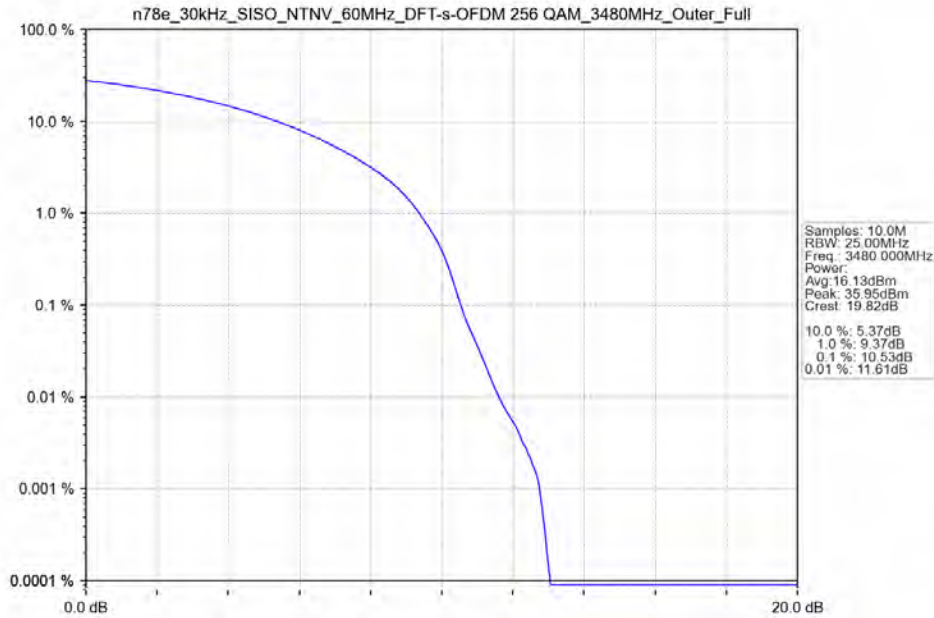
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n78e_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM_256_QAM_3500.01MHz_Outer_Full



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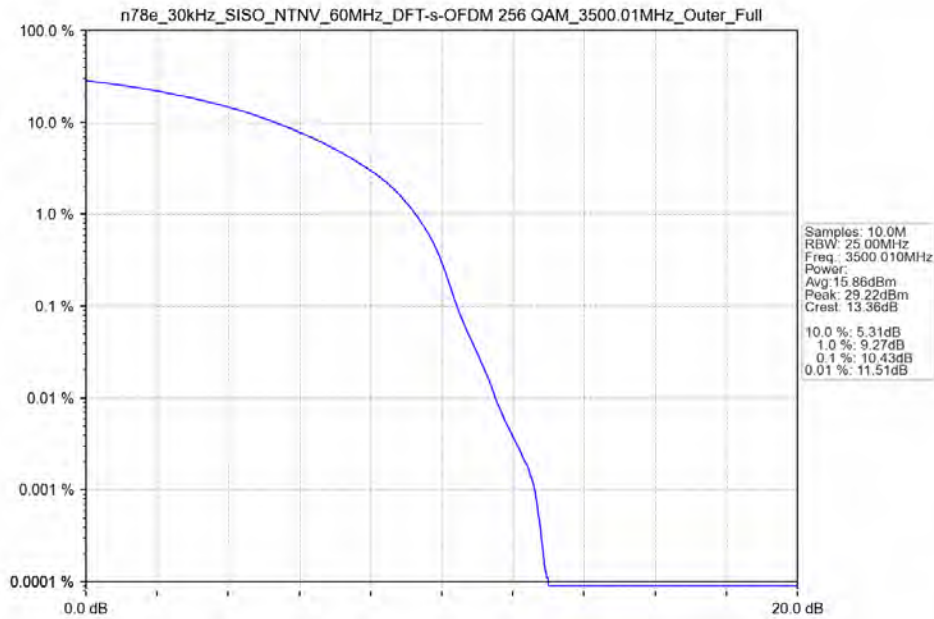


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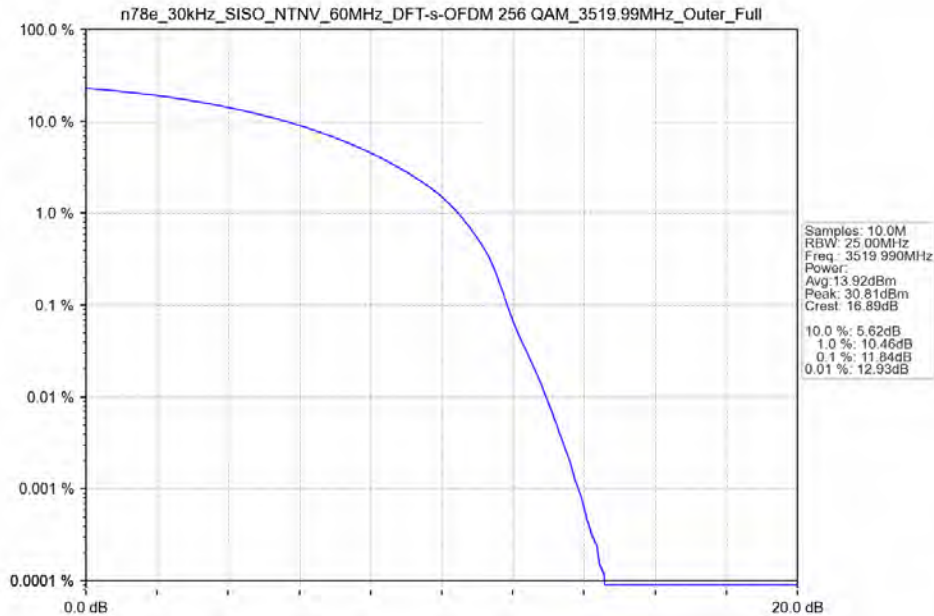
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n78e_30kHz_SISO_NTNV_60MHz_CP-OFDM_QPSK_3480MHz_Outer_Full



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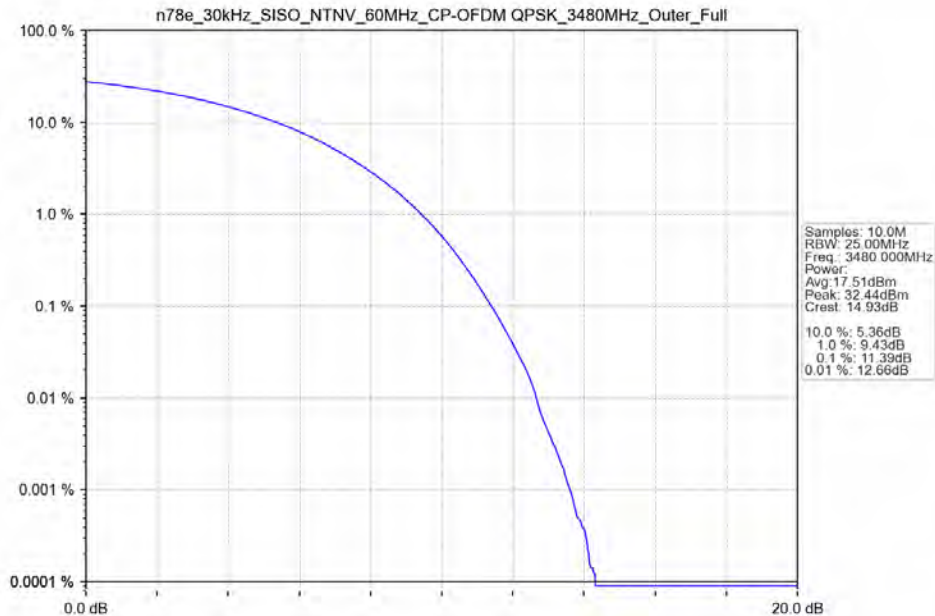


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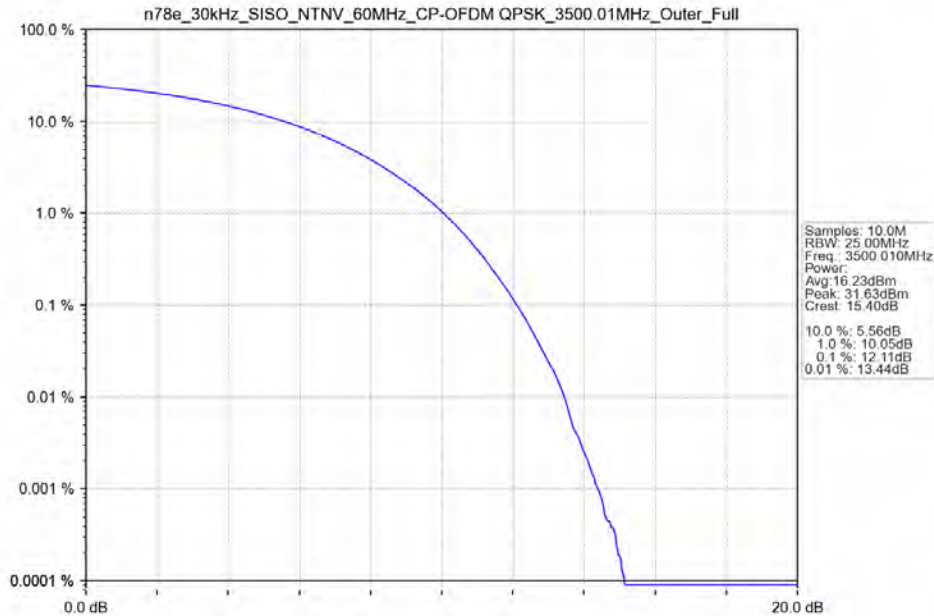
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n78e_30kHz_SISO_NTNV_60MHz_CP-OFDM QPSK_3519.99MHz_Outer_Full



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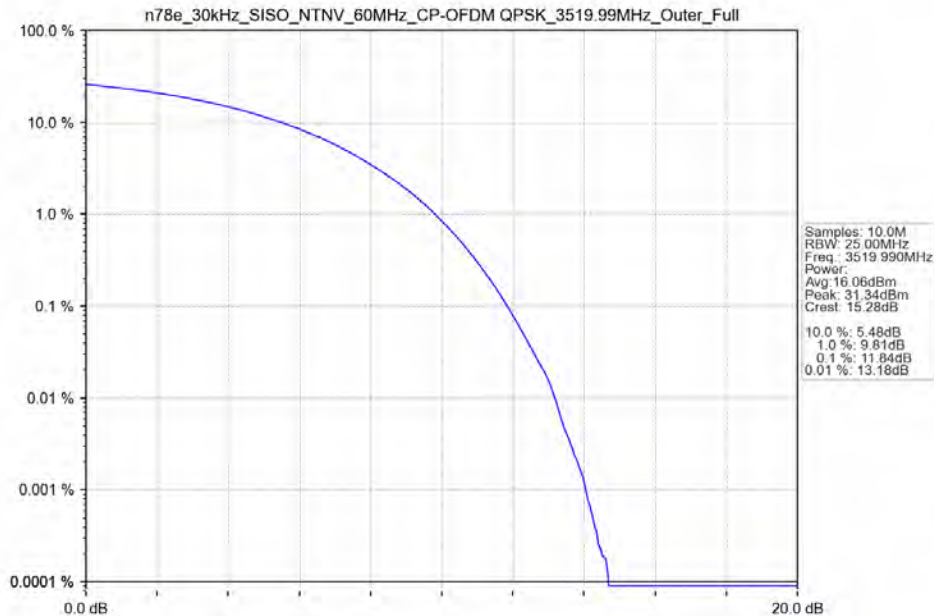


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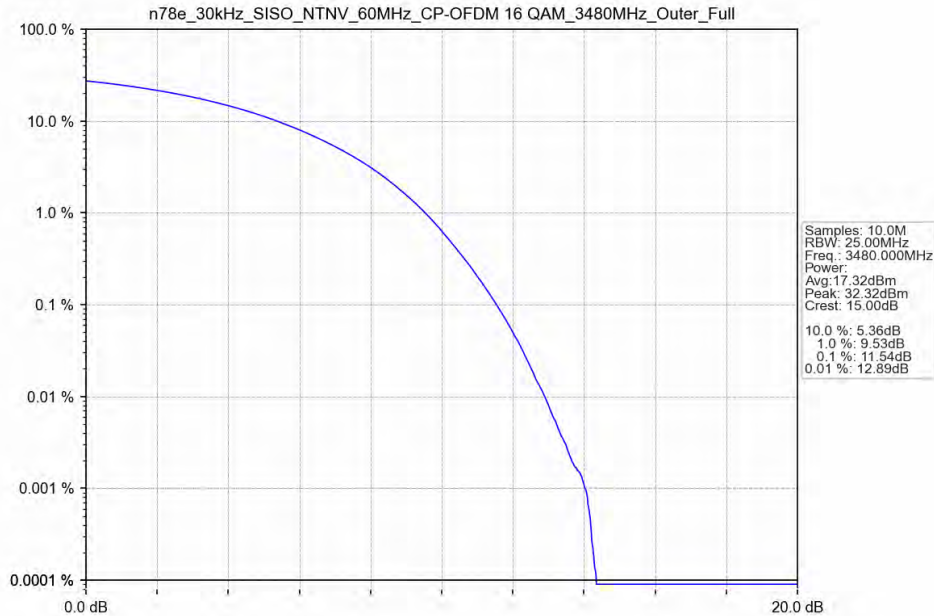
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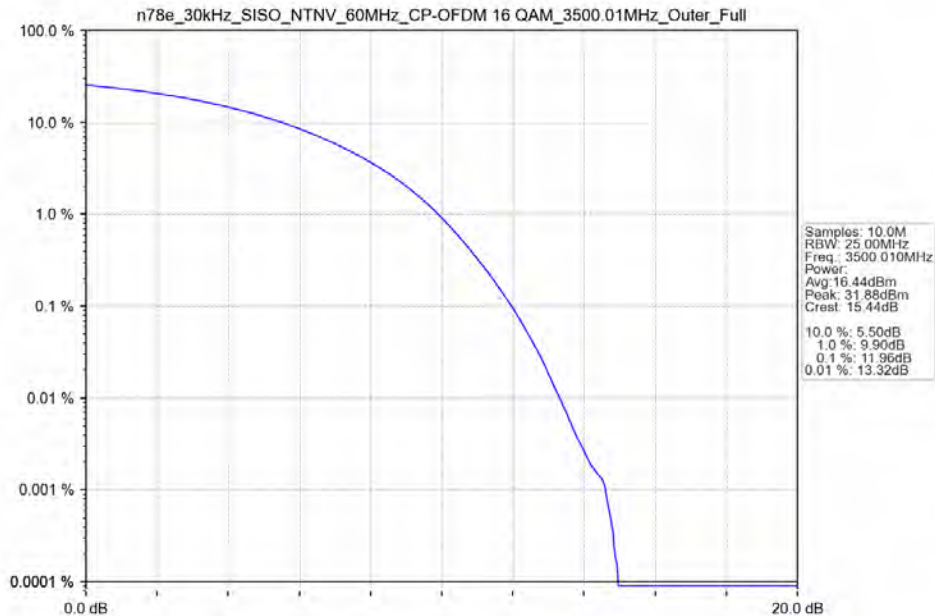


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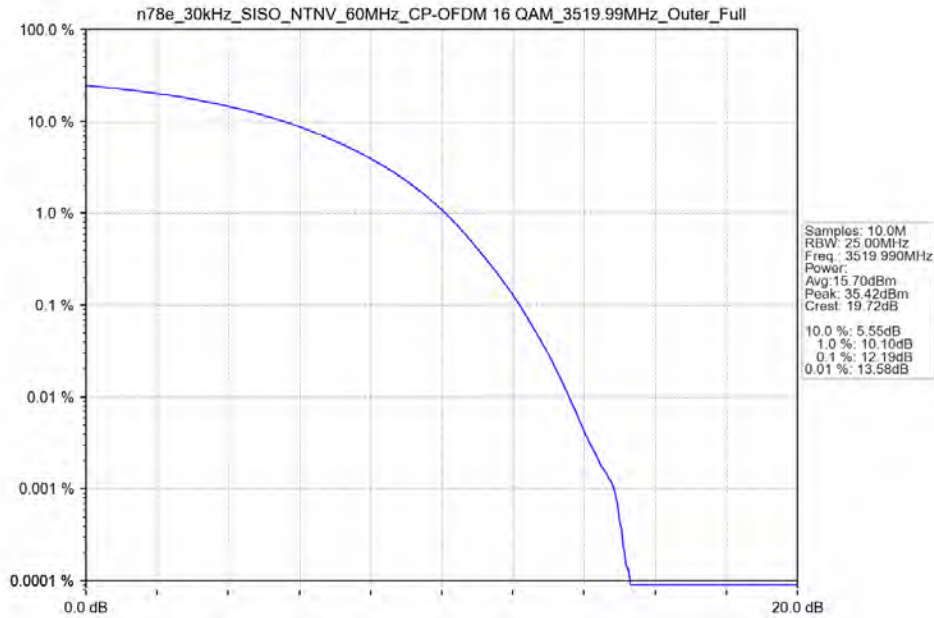
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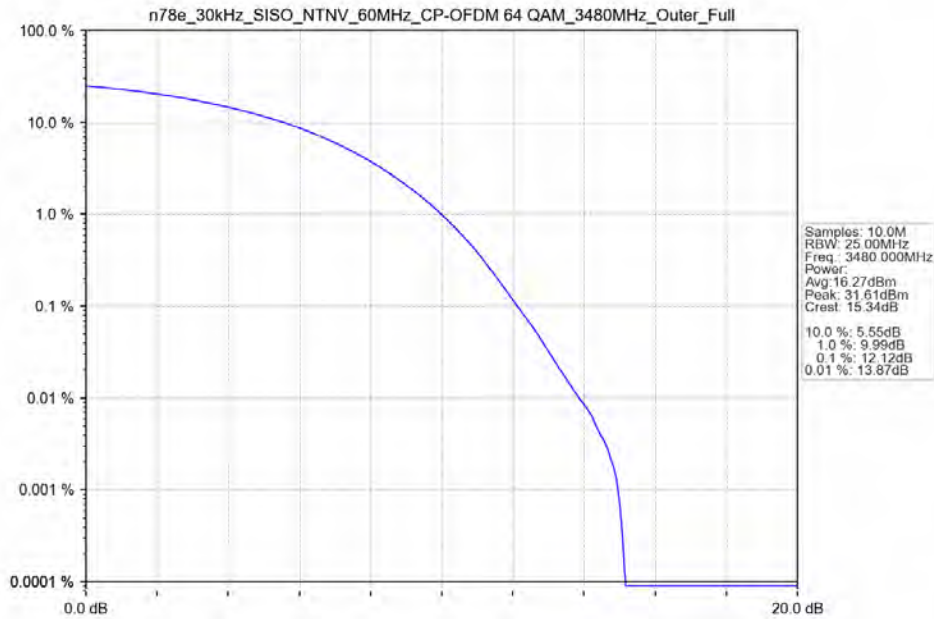


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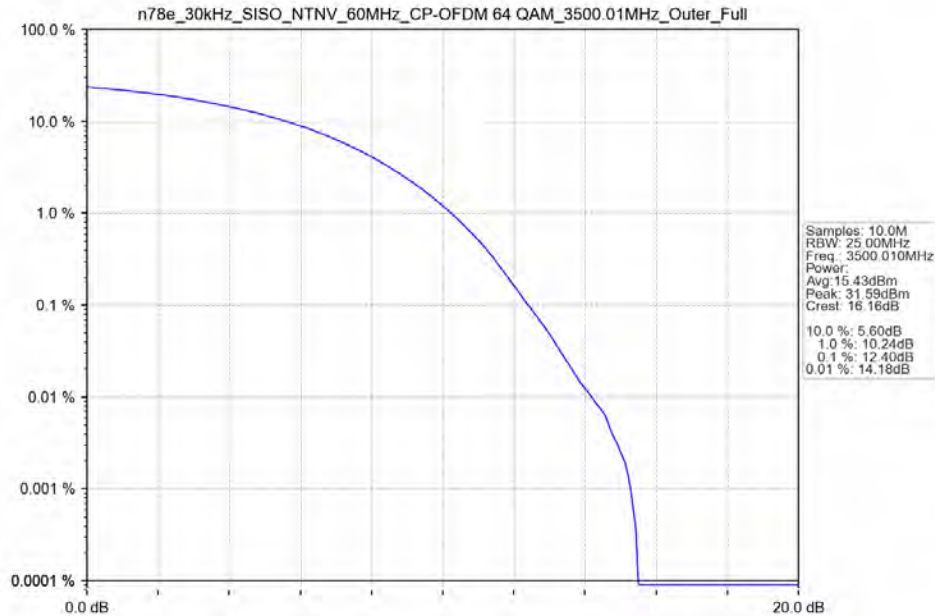
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n78e_30kHz_SISO_NTNV_60MHz_CP-OFDM 64 QAM_3500.01MHz_Outer_Full



n78e_30kHz_SISO_NTNV_60MHz_CP-OFDM 64 QAM_3519.99MHz_Outer_Full



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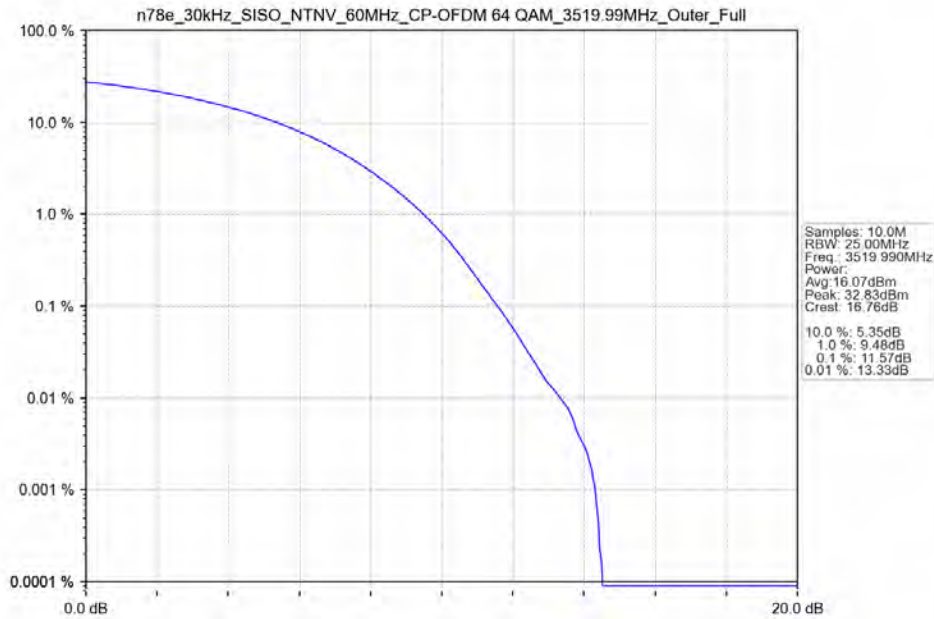


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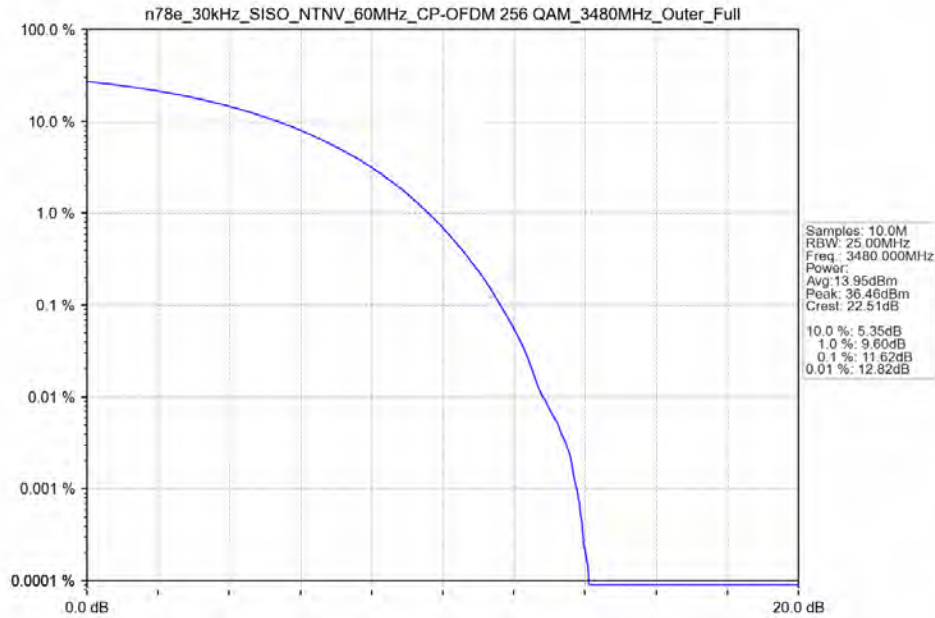
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n78e_30kHz_SISO_NTNV_60MHz_CP-OFDM_256_QAM_3480MHz_Outer_Full



n78e_30kHz_SISO_NTNV_60MHz_CP-OFDM_256_QAM_3500.01MHz_Outer_Full



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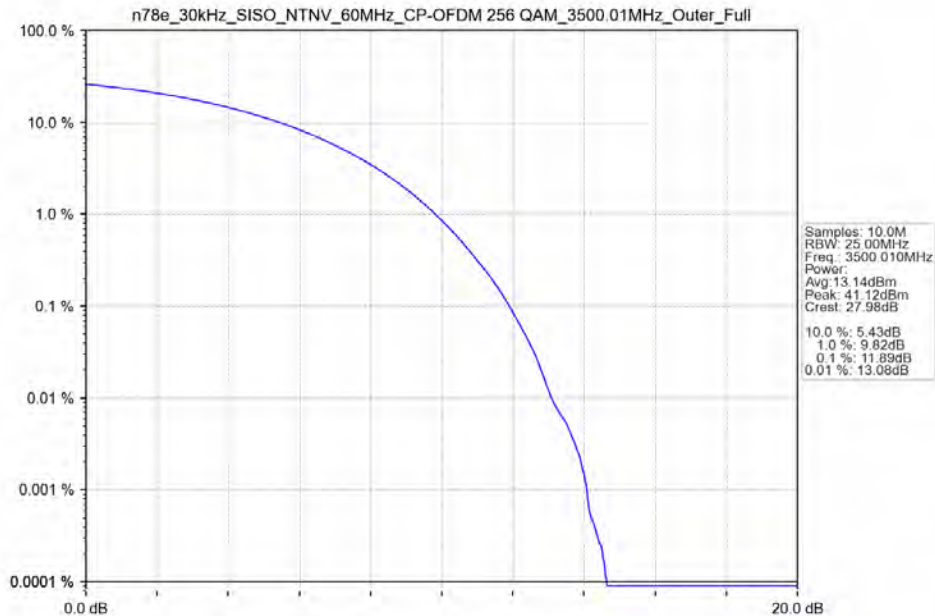


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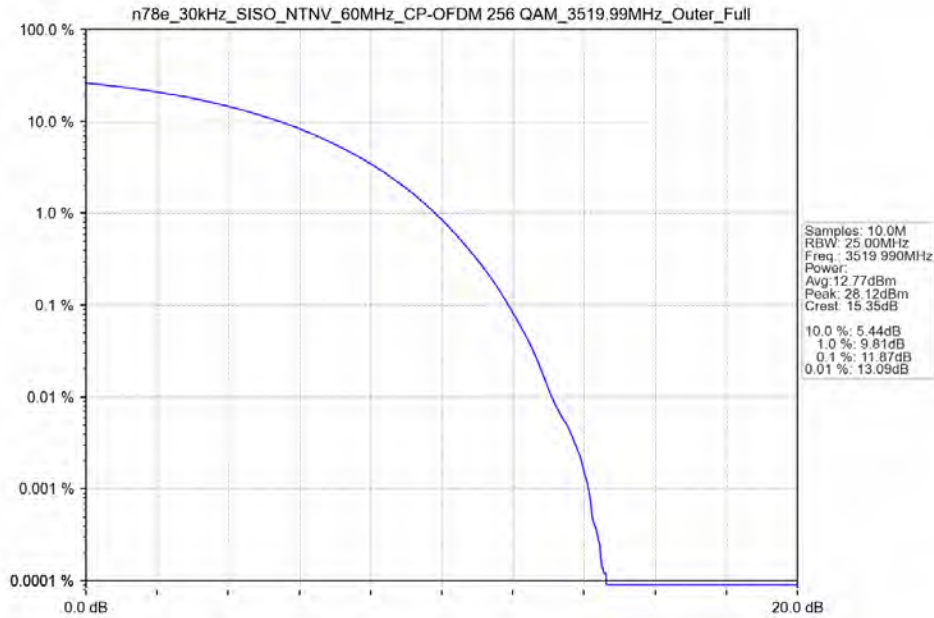
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n78e_30kHz_SISO_NTNV_60MHz_CP-OFDM_256_QAM_3519.99MHz_Outer_Full



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4.6 30k_SISO_70MHz_NTNV

4.6.1 Test Result

5G NR n78e SCS=30kHz SISO 70MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant4	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3485.01	Outer Full	9.82	/	/	<=13	Pass
	3500.01	Outer Full	9.68	/	/	<=13	Pass
	3514.98	Outer Full	9.87	/	/	<=13	Pass
DFT-s-OFDM QPSK	3485.01	Outer Full	10.60	/	/	<=13	Pass
	3500.01	Outer Full	11.15	/	/	<=13	Pass
	3514.98	Outer Full	10.51	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3485.01	Outer Full	11.06	/	/	<=13	Pass
	3500.01	Outer Full	11.21	/	/	<=13	Pass
	3514.98	Outer Full	10.67	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3485.01	Outer Full	10.79	/	/	<=13	Pass
	3500.01	Outer Full	11.18	/	/	<=13	Pass
	3514.98	Outer Full	11.15	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3485.01	Outer Full	11.32	/	/	<=13	Pass
	3500.01	Outer Full	12.01	/	/	<=13	Pass
	3514.98	Outer Full	10.77	/	/	<=13	Pass
CP-OFDM QPSK	3485.01	Outer Full	12.08	/	/	<=13	Pass
	3500.01	Outer Full	11.75	/	/	<=13	Pass
	3514.98	Outer Full	11.55	/	/	<=13	Pass
CP-OFDM 16 QAM	3485.01	Outer Full	11.75	/	/	<=13	Pass
	3500.01	Outer Full	12.05	/	/	<=13	Pass
	3514.98	Outer Full	11.64	/	/	<=13	Pass
CP-OFDM 64 QAM	3485.01	Outer Full	11.75	/	/	<=13	Pass
	3500.01	Outer Full	12.06	/	/	<=13	Pass
	3514.98	Outer Full	11.89	/	/	<=13	Pass
CP-OFDM 256 QAM	3485.01	Outer Full	11.69	/	/	<=13	Pass
	3500.01	Outer Full	11.80	/	/	<=13	Pass
	3514.98	Outer Full	12.13	/	/	<=13	Pass



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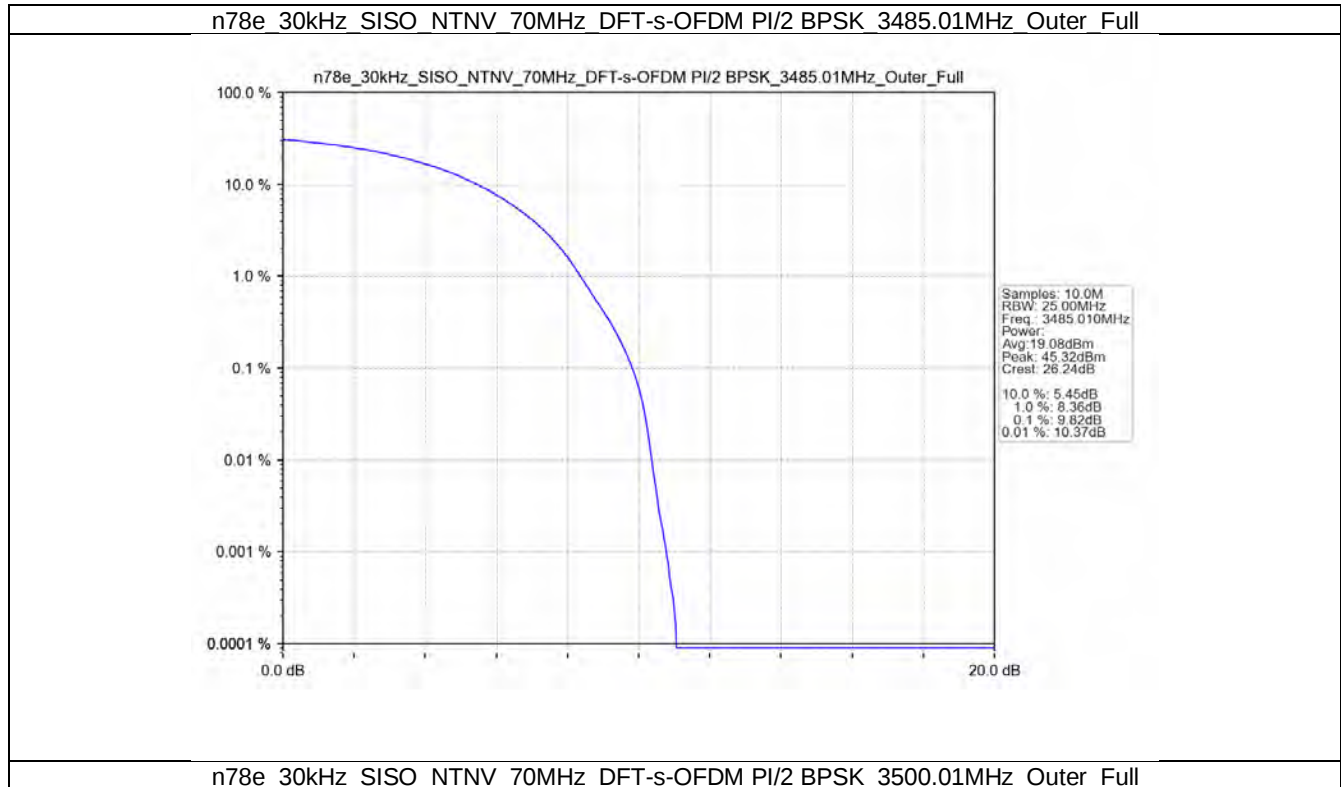
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4.6.2 Test Graph



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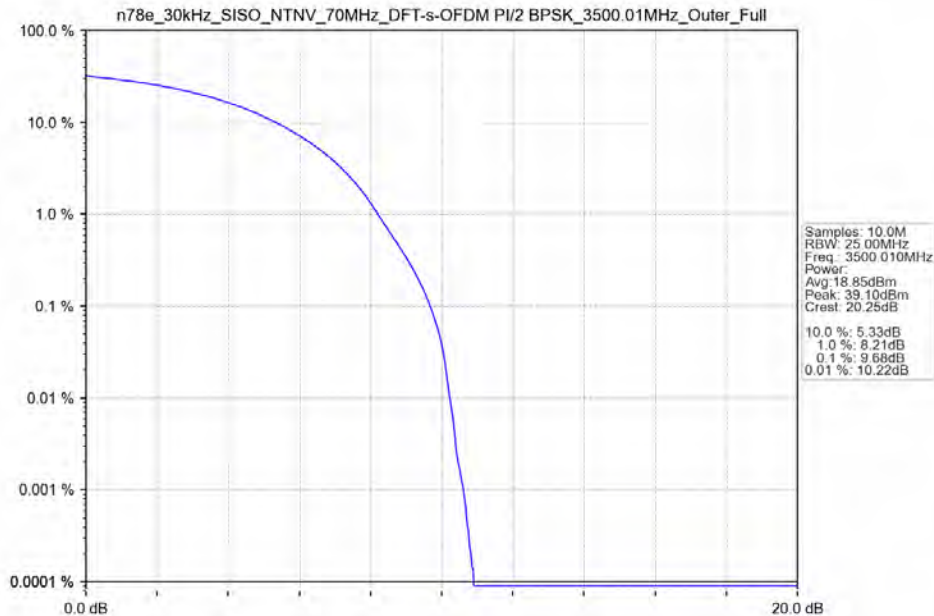


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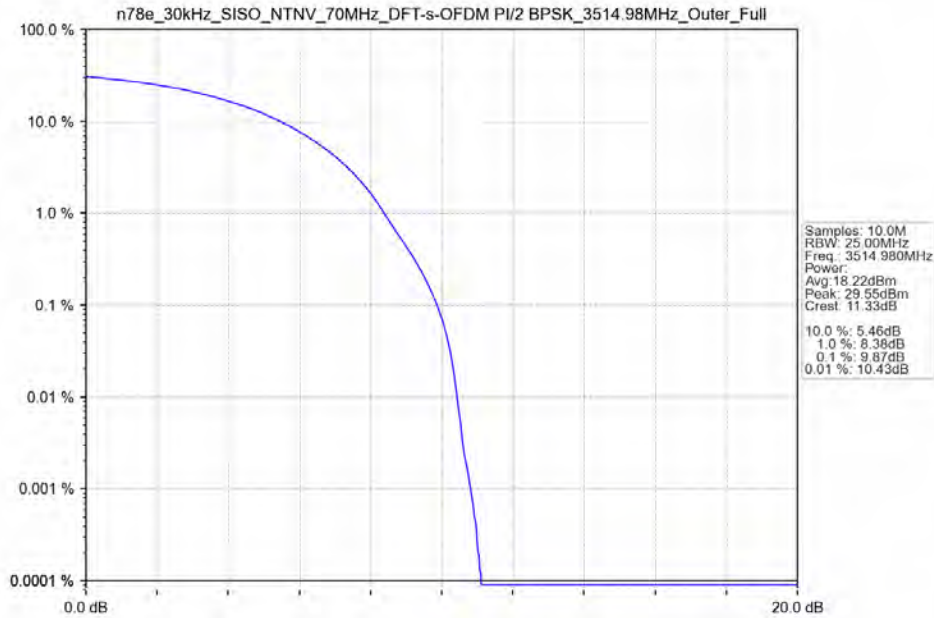
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n78e_30kHz_SISO_NTNV_70MHz_DFT-s-OFDM QPSK_3485.01MHz_Outer_Full



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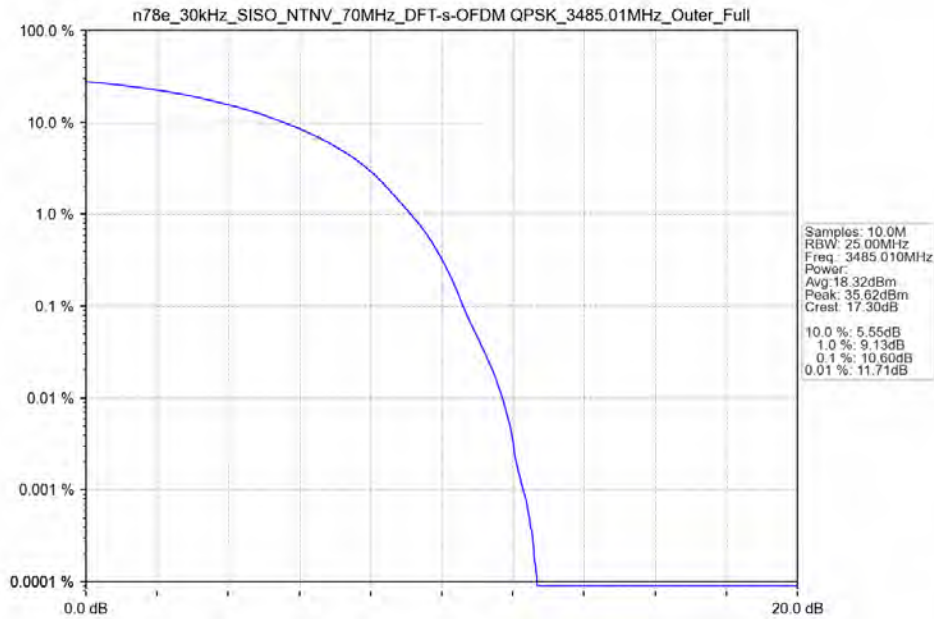


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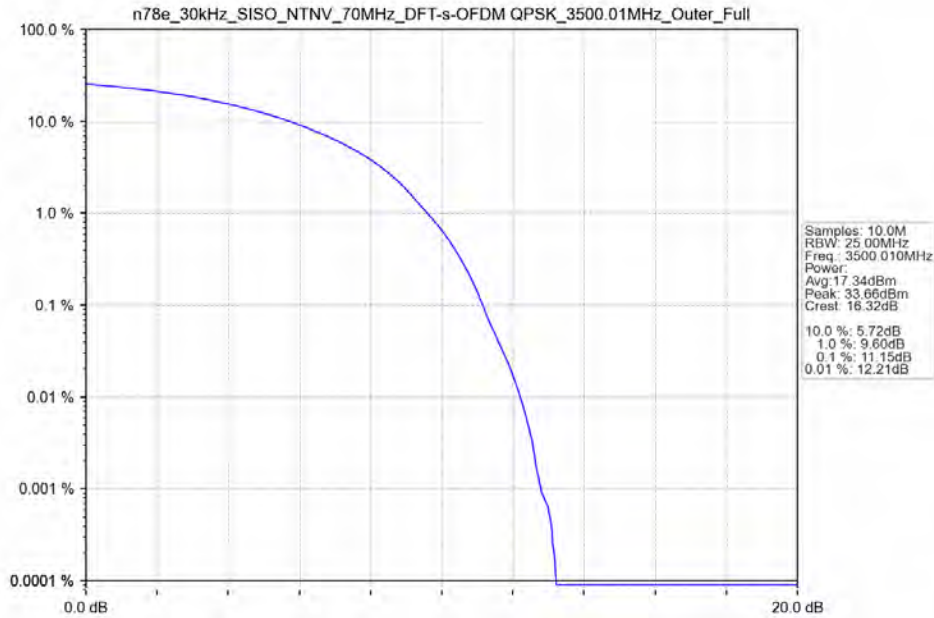
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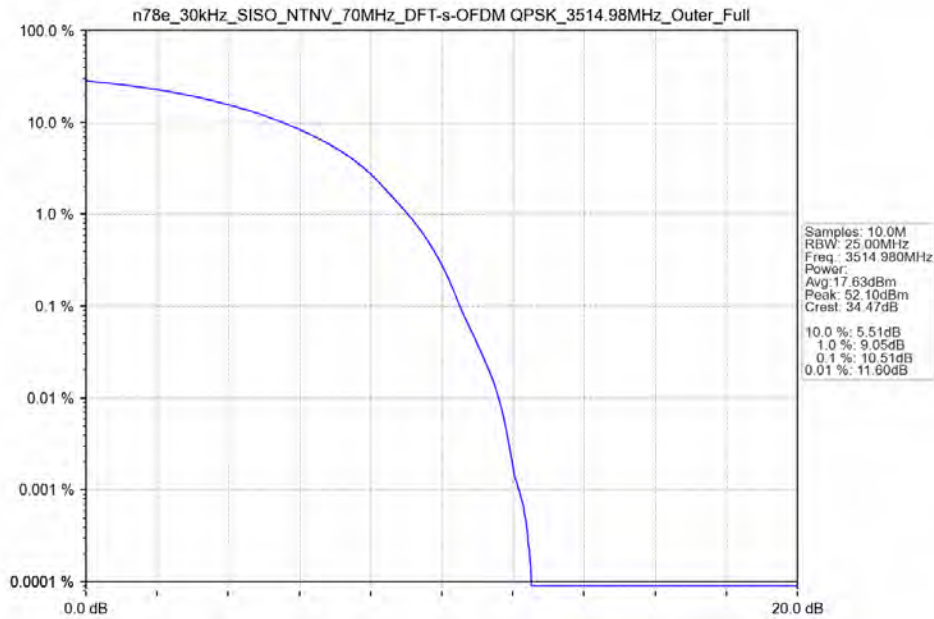


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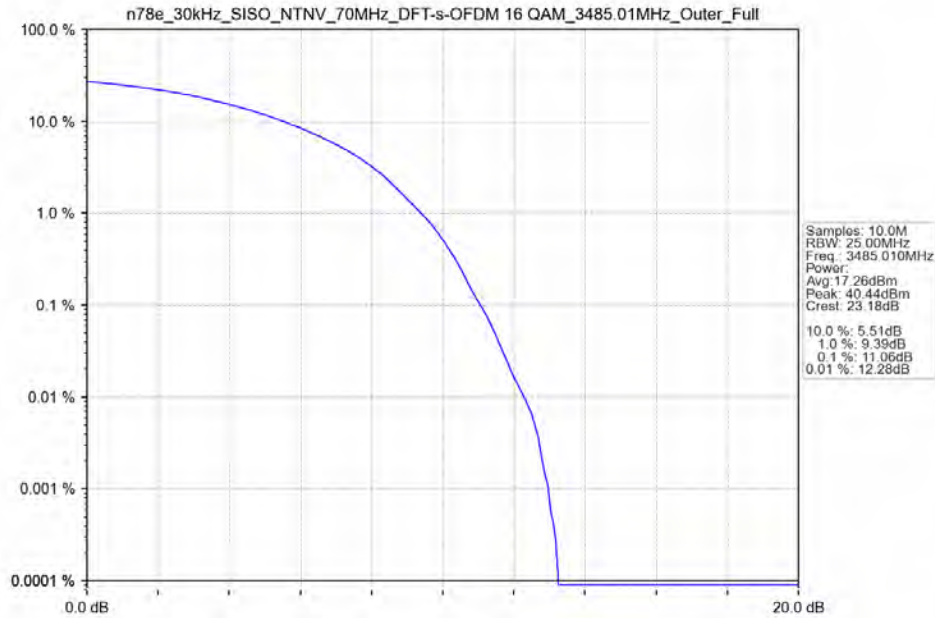
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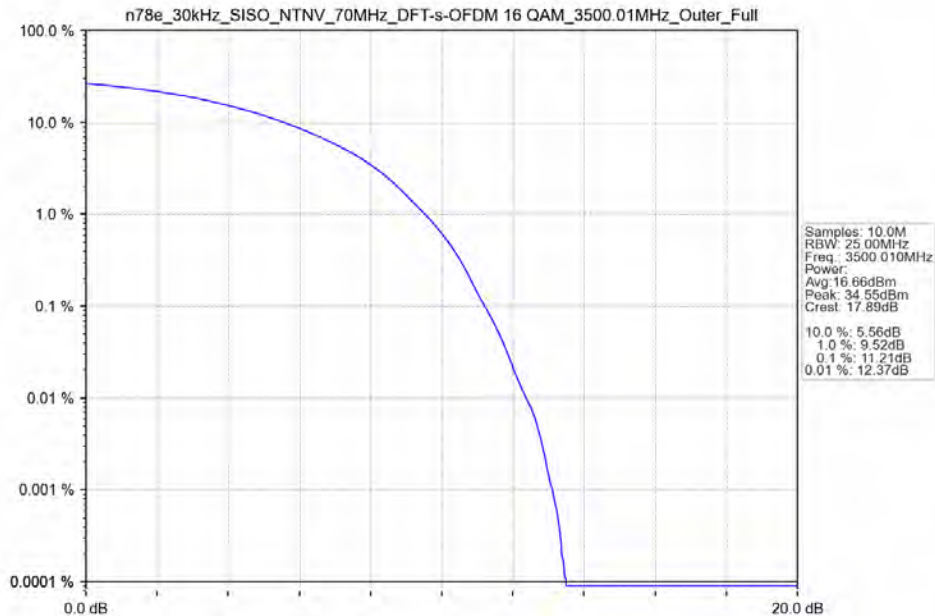


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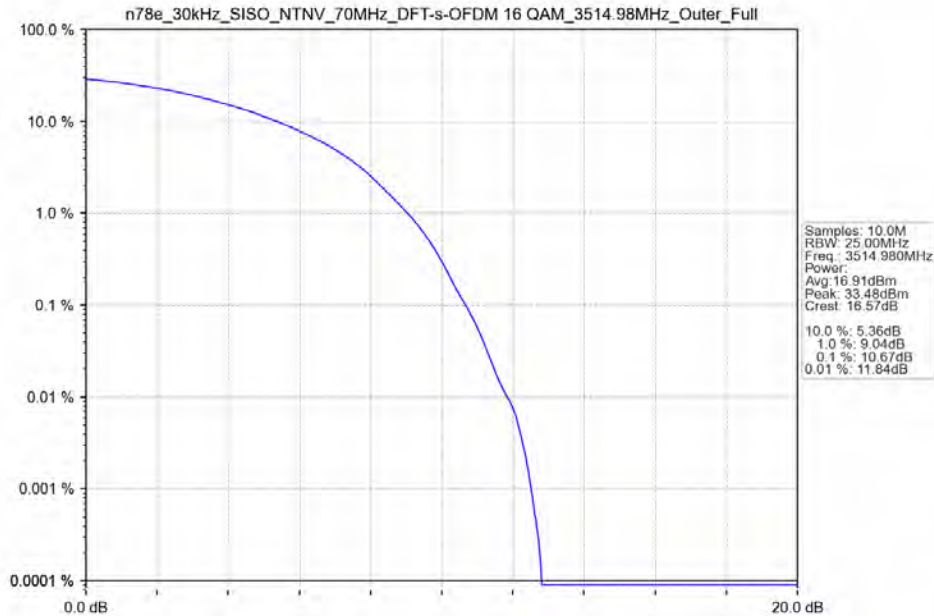
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n78e_30kHz_SISO_NTNV_70MHz_DFT-s-OFDM 16 QAM_3514.98MHz_Outer_Full



n78e_30kHz_SISO_NTNV_70MHz_DFT-s-OFDM 64 QAM_3485.01MHz_Outer_Full



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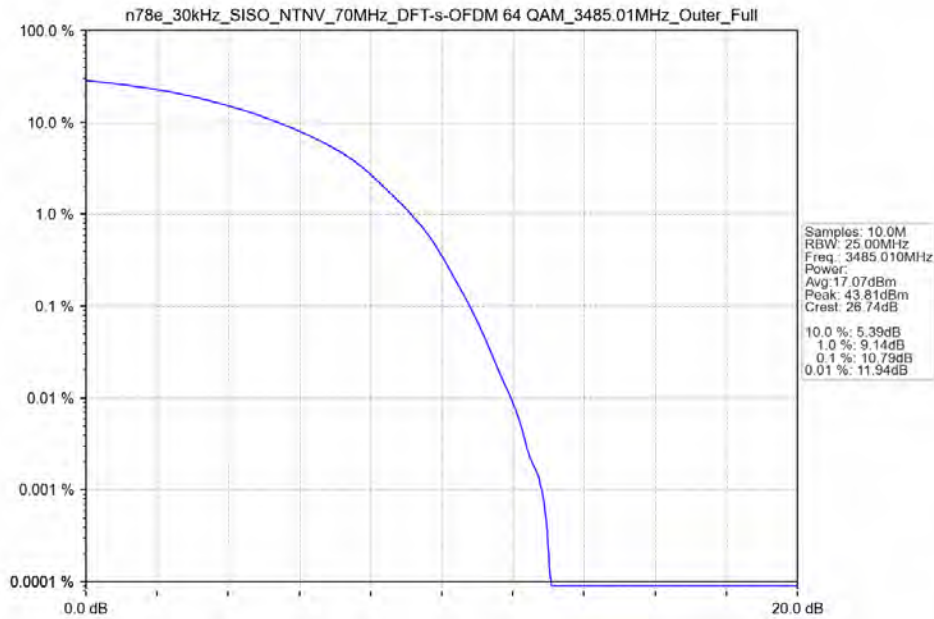


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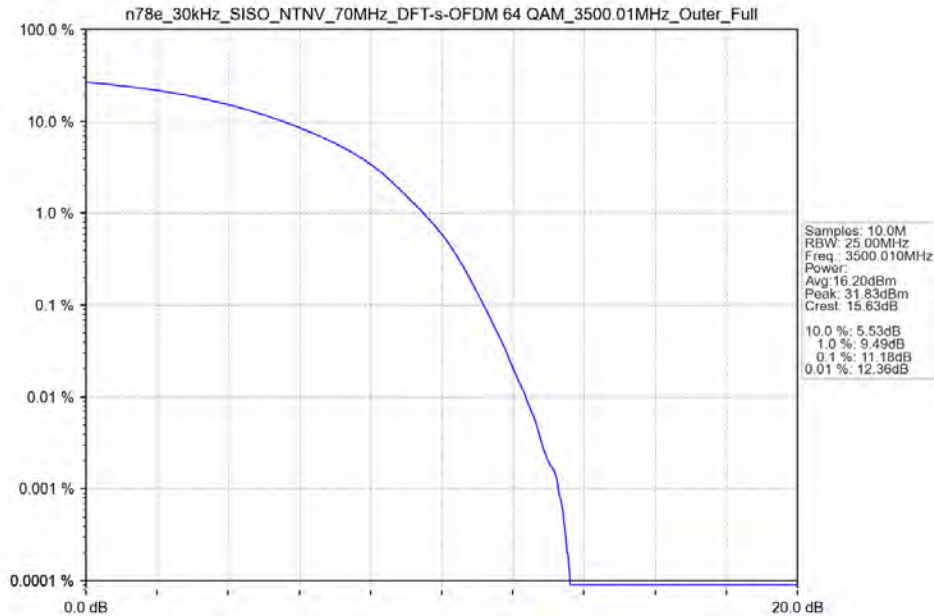
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n78e_30kHz_SISO_NTNV_70MHz_DFT-s-OFDM 64 QAM_3500.01MHz_Outer_Full



n78e_30kHz_SISO_NTNV_70MHz_DFT-s-OFDM 64 QAM_3514.98MHz_Outer_Full



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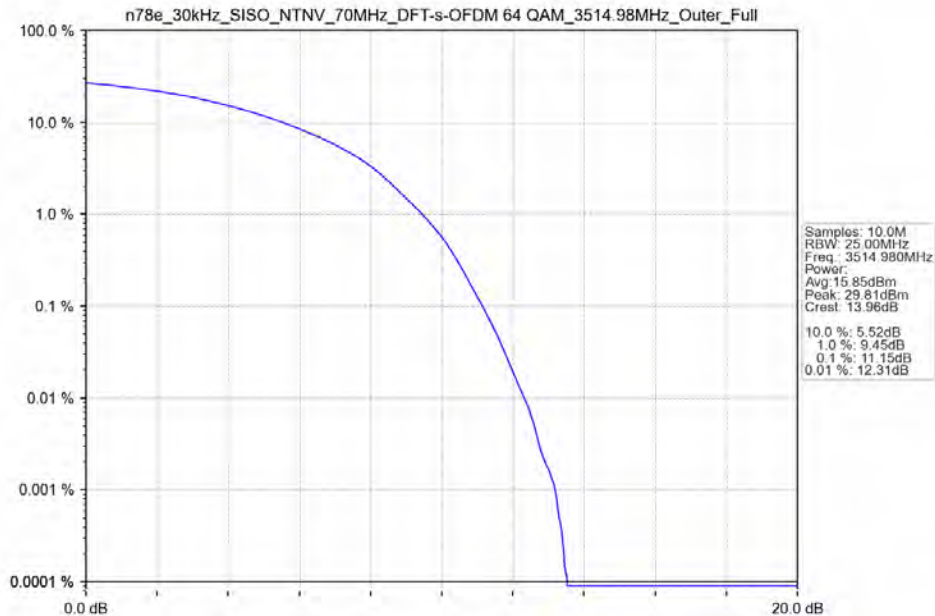


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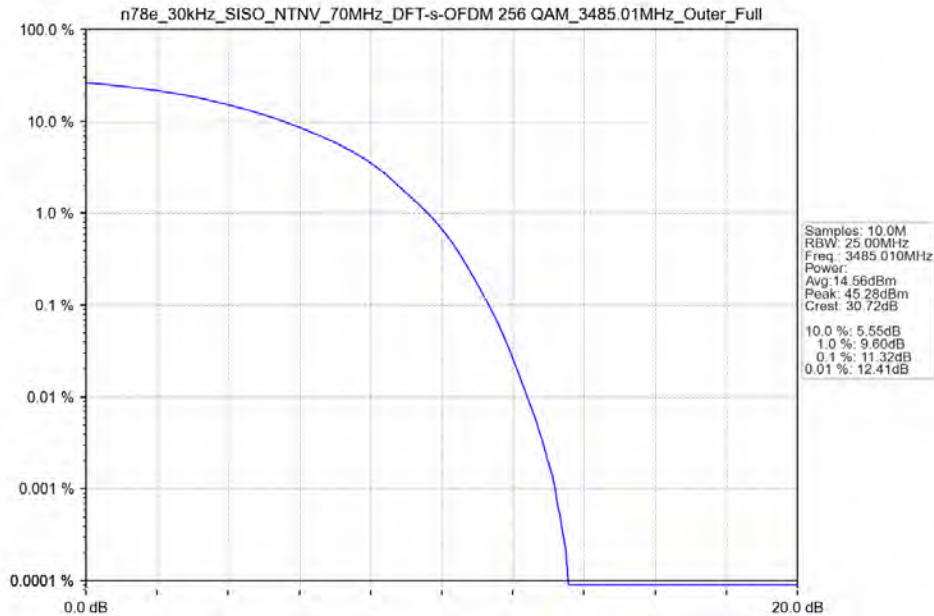
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n78e_30kHz_SISO_NTNV_70MHz_DFT-s-OFDM_256_QAM_3485.01MHz_Outer_Full



n78e_30kHz_SISO_NTNV_70MHz_DFT-s-OFDM_256_QAM_3500.01MHz_Outer_Full



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