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Appendix B.35

NR Band n12



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1. Effective (Isotropic) Radiated Power Output Data

1.1 15k_SISO_5MHz_NTNV_ERP

1.1.1 Test Result

5G NR n12 SCS=15kHz SISO 5MHz NTN										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			ERP(dBm)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	701.5	Edge_1RB_Left	22.88	/	/	21.43	/	/	<=34.77	Pass
		Edge_1RB_Right	22.69	/	/	21.24	/	/	<=34.77	Pass
		Outer_Full	22.81	/	/	21.36	/	/	<=34.77	Pass
		Inner_Full	23.32	/	/	21.87	/	/	<=34.77	Pass
		Inner_1RB_Left	23.38	/	/	21.93	/	/	<=34.77	Pass
		Inner_1RB_Right	23.27	/	/	21.82	/	/	<=34.77	Pass
	707.5	Edge_1RB_Left	22.80	/	/	21.35	/	/	<=34.77	Pass
		Edge_1RB_Right	22.70	/	/	21.25	/	/	<=34.77	Pass
		Outer_Full	22.77	/	/	21.32	/	/	<=34.77	Pass
		Inner_Full	23.29	/	/	21.84	/	/	<=34.77	Pass
		Inner_1RB_Left	23.32	/	/	21.87	/	/	<=34.77	Pass
		Inner_1RB_Right	23.20	/	/	21.75	/	/	<=34.77	Pass
	713.5	Edge_1RB_Left	22.64	/	/	21.19	/	/	<=34.77	Pass
		Edge_1RB_Right	22.62	/	/	21.17	/	/	<=34.77	Pass
		Outer_Full	22.67	/	/	21.22	/	/	<=34.77	Pass
		Inner_Full	23.13	/	/	21.68	/	/	<=34.77	Pass
		Inner_1RB_Left	23.10	/	/	21.65	/	/	<=34.77	Pass
		Inner_1RB_Right	23.09	/	/	21.64	/	/	<=34.77	Pass
DFT-s-OFDM QPSK	701.5	Edge_1RB_Left	22.34	/	/	20.89	/	/	<=34.77	Pass
		Edge_1RB_Right	22.30	/	/	20.85	/	/	<=34.77	Pass
		Outer_Full	20.84	/	/	19.39	/	/	<=34.77	Pass
		Inner_Full	23.37	/	/	21.92	/	/	<=34.77	Pass
		Inner_1RB_Left	23.30	/	/	21.85	/	/	<=34.77	Pass
		Inner_1RB_Right	23.28	/	/	21.83	/	/	<=34.77	Pass
	707.5	Edge_1RB_Left	22.28	/	/	20.83	/	/	<=34.77	Pass
		Edge_1RB_Right	22.19	/	/	20.74	/	/	<=34.77	Pass
		Outer_Full	20.76	/	/	19.31	/	/	<=34.77	Pass
		Inner_Full	23.24	/	/	21.79	/	/	<=34.77	Pass
		Inner_1RB_Left	23.23	/	/	21.78	/	/	<=34.77	Pass
		Inner_1RB_Right	23.24	/	/	21.79	/	/	<=34.77	Pass
	713.5	Edge_1RB_Left	22.11	/	/	20.66	/	/	<=34.77	Pass
		Edge_1RB_Right	22.03	/	/	20.58	/	/	<=34.77	Pass
		Outer_Full	20.61	/	/	19.16	/	/	<=34.77	Pass
		Inner_Full	23.12	/	/	21.67	/	/	<=34.77	Pass
		Inner_1RB_Left	23.08	/	/	21.63	/	/	<=34.77	Pass
		Inner_1RB_Right	23.04	/	/	21.59	/	/	<=34.77	Pass
DFT-s-OFDM 16 QAM	701.5	Edge_1RB_Left	21.38	/	/	19.93	/	/	<=34.77	Pass



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		Edge_1RB_Right	21.30	/	/	19.85	/	/	<=34.77	Pass
		Outer_Full	19.97	/	/	18.52	/	/	<=34.77	Pass
		Inner_Full	22.56	/	/	21.11	/	/	<=34.77	Pass
		Inner_1RB_Left	22.40	/	/	20.95	/	/	<=34.77	Pass
		Inner_1RB_Right	22.21	/	/	20.76	/	/	<=34.77	Pass
	707.5	Edge_1RB_Left	21.35	/	/	19.9	/	/	<=34.77	Pass
		Edge_1RB_Right	21.28	/	/	19.83	/	/	<=34.77	Pass
		Outer_Full	19.78	/	/	18.33	/	/	<=34.77	Pass
		Inner_Full	22.41	/	/	20.96	/	/	<=34.77	Pass
		Inner_1RB_Left	22.26	/	/	20.81	/	/	<=34.77	Pass
	713.5	Inner_1RB_Right	22.30	/	/	20.85	/	/	<=34.77	Pass
		Edge_1RB_Left	21.18	/	/	19.73	/	/	<=34.77	Pass
		Edge_1RB_Right	21.07	/	/	19.62	/	/	<=34.77	Pass
		Outer_Full	19.70	/	/	18.25	/	/	<=34.77	Pass
		Inner_Full	22.18	/	/	20.73	/	/	<=34.77	Pass
DFT-s-OFDM 64 QAM	701.5	Inner_1RB_Left	22.02	/	/	20.57	/	/	<=34.77	Pass
		Inner_1RB_Right	22.00	/	/	20.55	/	/	<=34.77	Pass
		Edge_1RB_Left	21.08	/	/	19.63	/	/	<=34.77	Pass
		Edge_1RB_Right	20.93	/	/	19.48	/	/	<=34.77	Pass
		Outer_Full	19.34	/	/	17.89	/	/	<=34.77	Pass
	707.5	Inner_Full	20.94	/	/	19.49	/	/	<=34.77	Pass
		Inner_1RB_Left	21.00	/	/	19.55	/	/	<=34.77	Pass
		Inner_1RB_Right	20.97	/	/	19.52	/	/	<=34.77	Pass
		Edge_1RB_Left	20.99	/	/	19.54	/	/	<=34.77	Pass
		Edge_1RB_Right	20.83	/	/	19.38	/	/	<=34.77	Pass
	713.5	Outer_Full	19.28	/	/	17.83	/	/	<=34.77	Pass
		Inner_Full	20.85	/	/	19.4	/	/	<=34.77	Pass
		Inner_1RB_Left	21.04	/	/	19.59	/	/	<=34.77	Pass
		Inner_1RB_Right	20.94	/	/	19.49	/	/	<=34.77	Pass
		Edge_1RB_Left	20.74	/	/	19.29	/	/	<=34.77	Pass
DFT-s-OFDM 256 QAM	701.5	Edge_1RB_Right	20.73	/	/	19.28	/	/	<=34.77	Pass
		Outer_Full	19.11	/	/	17.66	/	/	<=34.77	Pass
		Inner_Full	20.75	/	/	19.3	/	/	<=34.77	Pass
		Inner_1RB_Left	20.76	/	/	19.31	/	/	<=34.77	Pass
		Inner_1RB_Right	20.76	/	/	19.31	/	/	<=34.77	Pass
	707.5	Edge_1RB_Left	18.38	/	/	16.93	/	/	<=34.77	Pass
		Edge_1RB_Right	18.29	/	/	16.84	/	/	<=34.77	Pass
		Outer_Full	16.34	/	/	14.89	/	/	<=34.77	Pass
		Inner_Full	18.98	/	/	17.53	/	/	<=34.77	Pass
		Inner_1RB_Left	18.39	/	/	16.94	/	/	<=34.77	Pass
	713.5	Inner_1RB_Right	18.36	/	/	16.91	/	/	<=34.77	Pass
		Edge_1RB_Left	18.27	/	/	16.82	/	/	<=34.77	Pass
		Edge_1RB_Right	18.23	/	/	16.78	/	/	<=34.77	Pass
		Outer_Full	16.28	/	/	14.83	/	/	<=34.77	Pass
		Inner_Full	18.83	/	/	17.38	/	/	<=34.77	Pass
		Inner_1RB_Left	18.31	/	/	16.86	/	/	<=34.77	Pass
		Inner_1RB_Right	18.18	/	/	16.73	/	/	<=34.77	Pass
		Edge_1RB_Left	18.10	/	/	16.65	/	/	<=34.77	Pass



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		Edge_1RB_Right	18.07	/	/	16.62	/	/	<=34.77	Pass
		Outer_Full	16.09	/	/	14.64	/	/	<=34.77	Pass
		Inner_Full	18.63	/	/	17.18	/	/	<=34.77	Pass
		Inner_1RB_Left	18.06	/	/	16.61	/	/	<=34.77	Pass
		Inner_1RB_Right	18.06	/	/	16.61	/	/	<=34.77	Pass
CP-OFDM QPSK	701.5	Edge_1RB_Left	20.49	/	/	19.04	/	/	<=34.77	Pass
		Edge_1RB_Right	20.22	/	/	18.77	/	/	<=34.77	Pass
		Outer_Full	20.96	/	/	19.51	/	/	<=34.77	Pass
		Inner_Full	21.77	/	/	20.32	/	/	<=34.77	Pass
		Inner_1RB_Left	22.02	/	/	20.57	/	/	<=34.77	Pass
	707.5	Inner_1RB_Right	21.75	/	/	20.3	/	/	<=34.77	Pass
		Edge_1RB_Left	20.34	/	/	18.89	/	/	<=34.77	Pass
		Edge_1RB_Right	20.12	/	/	18.67	/	/	<=34.77	Pass
		Outer_Full	20.86	/	/	19.41	/	/	<=34.77	Pass
		Inner_Full	21.80	/	/	20.35	/	/	<=34.77	Pass
	713.5	Inner_1RB_Left	21.65	/	/	20.2	/	/	<=34.77	Pass
		Inner_1RB_Right	21.57	/	/	20.12	/	/	<=34.77	Pass
		Edge_1RB_Left	20.01	/	/	18.56	/	/	<=34.77	Pass
		Edge_1RB_Right	20.03	/	/	18.58	/	/	<=34.77	Pass
		Outer_Full	20.65	/	/	19.2	/	/	<=34.77	Pass
CP-OFDM 16 QAM	701.5	Inner_Full	21.64	/	/	20.19	/	/	<=34.77	Pass
		Inner_1RB_Left	21.46	/	/	20.01	/	/	<=34.77	Pass
		Inner_1RB_Right	21.43	/	/	19.98	/	/	<=34.77	Pass
		Edge_1RB_Left	20.38	/	/	18.93	/	/	<=34.77	Pass
		Edge_1RB_Right	20.14	/	/	18.69	/	/	<=34.77	Pass
	707.5	Outer_Full	18.39	/	/	16.94	/	/	<=34.77	Pass
		Inner_Full	21.29	/	/	19.84	/	/	<=34.77	Pass
		Inner_1RB_Left	21.50	/	/	20.05	/	/	<=34.77	Pass
		Inner_1RB_Right	21.42	/	/	19.97	/	/	<=34.77	Pass
		Edge_1RB_Left	20.30	/	/	18.85	/	/	<=34.77	Pass
	713.5	Edge_1RB_Right	20.21	/	/	18.76	/	/	<=34.77	Pass
		Outer_Full	18.33	/	/	16.88	/	/	<=34.77	Pass
		Inner_Full	21.22	/	/	19.77	/	/	<=34.77	Pass
		Inner_1RB_Left	21.33	/	/	19.88	/	/	<=34.77	Pass
		Inner_1RB_Right	21.26	/	/	19.81	/	/	<=34.77	Pass
CP-OFDM 64 QAM	701.5	Edge_1RB_Left	20.15	/	/	18.7	/	/	<=34.77	Pass
		Edge_1RB_Right	20.04	/	/	18.59	/	/	<=34.77	Pass
		Outer_Full	18.15	/	/	16.7	/	/	<=34.77	Pass
		Inner_Full	21.02	/	/	19.57	/	/	<=34.77	Pass
		Inner_1RB_Left	21.07	/	/	19.62	/	/	<=34.77	Pass
707.5	Inner_1RB_Right	21.12	/	/	19.67	/	/	<=34.77	Pass	
	Edge_1RB_Left	19.91	/	/	18.46	/	/	<=34.77	Pass	
	Edge_1RB_Right	19.88	/	/	18.43	/	/	<=34.77	Pass	
	Outer_Full	17.88	/	/	16.43	/	/	<=34.77	Pass	
	Inner_Full	19.98	/	/	18.53	/	/	<=34.77	Pass	
	707.5	Inner_1RB_Left	19.93	/	/	18.48	/	/	<=34.77	Pass
		Inner_1RB_Right	19.77	/	/	18.32	/	/	<=34.77	Pass
		Edge_1RB_Left	19.84	/	/	18.39	/	/	<=34.77	Pass



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CP-OFDM 256 QAM	713.5	Edge_1RB_Right	19.72	/	/	18.27	/	/	<=34.77	Pass
		Outer_Full	17.76	/	/	16.31	/	/	<=34.77	Pass
		Inner_Full	19.86	/	/	18.41	/	/	<=34.77	Pass
		Inner_1RB_Left	19.89	/	/	18.44	/	/	<=34.77	Pass
		Inner_1RB_Right	19.70	/	/	18.25	/	/	<=34.77	Pass
	713.5	Edge_1RB_Left	19.68	/	/	18.23	/	/	<=34.77	Pass
		Edge_1RB_Right	19.70	/	/	18.25	/	/	<=34.77	Pass
		Outer_Full	17.65	/	/	16.2	/	/	<=34.77	Pass
		Inner_Full	19.68	/	/	18.23	/	/	<=34.77	Pass
		Inner_1RB_Left	19.62	/	/	18.17	/	/	<=34.77	Pass
	701.5	Inner_1RB_Right	19.60	/	/	18.15	/	/	<=34.77	Pass
		Edge_1RB_Left	16.49	/	/	15.04	/	/	<=34.77	Pass
		Edge_1RB_Right	16.39	/	/	14.94	/	/	<=34.77	Pass
		Outer_Full	14.93	/	/	13.48	/	/	<=34.77	Pass
		Inner_Full	16.94	/	/	15.49	/	/	<=34.77	Pass
707.5	Inner_1RB_Left	16.54	/	/	15.09	/	/	<=34.77	Pass	
	Inner_1RB_Right	16.40	/	/	14.95	/	/	<=34.77	Pass	
	Edge_1RB_Left	16.43	/	/	14.98	/	/	<=34.77	Pass	
	Edge_1RB_Right	16.35	/	/	14.9	/	/	<=34.77	Pass	
	Outer_Full	14.83	/	/	13.38	/	/	<=34.77	Pass	
713.5	Inner_Full	16.81	/	/	15.36	/	/	<=34.77	Pass	
	Inner_1RB_Left	16.42	/	/	14.97	/	/	<=34.77	Pass	
	Inner_1RB_Right	16.40	/	/	14.95	/	/	<=34.77	Pass	
	Edge_1RB_Left	16.72	/	/	15.27	/	/	<=34.77	Pass	
	Edge_1RB_Right	16.82	/	/	15.37	/	/	<=34.77	Pass	
713.5	Outer_Full	14.70	/	/	13.25	/	/	<=34.77	Pass	
	Inner_Full	16.71	/	/	15.26	/	/	<=34.77	Pass	
	Inner_1RB_Left	16.81	/	/	15.36	/	/	<=34.77	Pass	
	Inner_1RB_Right	16.60	/	/	15.15	/	/	<=34.77	Pass	

Note1: Antenna Gain: Ant1: 0.7dBi;
Note2: ERP=Conducted Power+Antenna Gain-2.15

1.2 15k_SISO_10MHz_NTNV_ERP

1.2.1 Test Result

5G NR n12 SCS=15kHz SISO 10MHz NTNv										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			ERP(dBm)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	704	Edge_1RB_Left	22.98	/	/	21.53	/	/	<=34.77	Pass
		Edge_1RB_Right	22.68	/	/	21.23	/	/	<=34.77	Pass
		Outer_Full	22.78	/	/	21.33	/	/	<=34.77	Pass
		Inner_Full	23.33	/	/	21.88	/	/	<=34.77	Pass
		Inner_1RB_Left	23.46	/	/	22.01	/	/	<=34.77	Pass
		Inner_1RB_Right	23.15	/	/	21.7	/	/	<=34.77	Pass
	707.5	Edge_1RB_Left	22.90	/	/	21.45	/	/	<=34.77	Pass



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DFT-s-OFDM QPSK	711	Edge_1RB_Right	22.71	/	/	21.26	/	/	<=34.77	Pass	
		Outer_Full	22.82	/	/	21.37	/	/	<=34.77	Pass	
		Inner_Full	23.35	/	/	21.9	/	/	<=34.77	Pass	
		Inner_1RB_Left	23.46	/	/	22.01	/	/	<=34.77	Pass	
		Inner_1RB_Right	23.20	/	/	21.75	/	/	<=34.77	Pass	
	711	Edge_1RB_Left	22.75	/	/	21.3	/	/	<=34.77	Pass	
		Edge_1RB_Right	22.68	/	/	21.23	/	/	<=34.77	Pass	
		Outer_Full	22.75	/	/	21.3	/	/	<=34.77	Pass	
		Inner_Full	23.16	/	/	21.71	/	/	<=34.77	Pass	
		Inner_1RB_Left	23.28	/	/	21.83	/	/	<=34.77	Pass	
	DFT-s-OFDM 16 QAM	704	Inner_1RB_Right	23.16	/	/	21.71	/	/	<=34.77	Pass
			Edge_1RB_Left	22.49	/	/	21.04	/	/	<=34.77	Pass
			Edge_1RB_Right	22.21	/	/	20.76	/	/	<=34.77	Pass
			Outer_Full	20.77	/	/	19.32	/	/	<=34.77	Pass
			Inner_Full	23.30	/	/	21.85	/	/	<=34.77	Pass
707.5		Inner_1RB_Left	23.44	/	/	21.99	/	/	<=34.77	Pass	
		Inner_1RB_Right	23.27	/	/	21.82	/	/	<=34.77	Pass	
		Edge_1RB_Left	22.47	/	/	21.02	/	/	<=34.77	Pass	
		Edge_1RB_Right	22.18	/	/	20.73	/	/	<=34.77	Pass	
		Outer_Full	20.81	/	/	19.36	/	/	<=34.77	Pass	
711		Inner_Full	23.34	/	/	21.89	/	/	<=34.77	Pass	
		Inner_1RB_Left	23.48	/	/	22.03	/	/	<=34.77	Pass	
		Inner_1RB_Right	23.19	/	/	21.74	/	/	<=34.77	Pass	
		Edge_1RB_Left	22.30	/	/	20.85	/	/	<=34.77	Pass	
		Edge_1RB_Right	22.07	/	/	20.62	/	/	<=34.77	Pass	
DFT-s-OFDM 64 QAM	704	Outer_Full	20.72	/	/	19.27	/	/	<=34.77	Pass	
		Inner_Full	23.15	/	/	21.7	/	/	<=34.77	Pass	
		Inner_1RB_Left	23.28	/	/	21.83	/	/	<=34.77	Pass	
		Inner_1RB_Right	23.07	/	/	21.62	/	/	<=34.77	Pass	
		Edge_1RB_Left	21.56	/	/	20.11	/	/	<=34.77	Pass	
	707.5	Edge_1RB_Right	21.22	/	/	19.77	/	/	<=34.77	Pass	
		Outer_Full	19.88	/	/	18.43	/	/	<=34.77	Pass	
		Inner_Full	22.35	/	/	20.9	/	/	<=34.77	Pass	
		Inner_1RB_Left	22.47	/	/	21.02	/	/	<=34.77	Pass	
		Inner_1RB_Right	22.25	/	/	20.8	/	/	<=34.77	Pass	
	711	Edge_1RB_Left	21.40	/	/	19.95	/	/	<=34.77	Pass	
		Edge_1RB_Right	21.20	/	/	19.75	/	/	<=34.77	Pass	
		Outer_Full	19.80	/	/	18.35	/	/	<=34.77	Pass	
		Inner_Full	22.32	/	/	20.87	/	/	<=34.77	Pass	
		Inner_1RB_Left	22.41	/	/	20.96	/	/	<=34.77	Pass	
711	Inner_1RB_Right	22.18	/	/	20.73	/	/	<=34.77	Pass		
	Edge_1RB_Left	21.26	/	/	19.81	/	/	<=34.77	Pass		
	Edge_1RB_Right	21.05	/	/	19.6	/	/	<=34.77	Pass		
	Outer_Full	19.74	/	/	18.29	/	/	<=34.77	Pass		
	Inner_Full	22.31	/	/	20.86	/	/	<=34.77	Pass		
711	Inner_1RB_Left	22.18	/	/	20.73	/	/	<=34.77	Pass		
	Inner_1RB_Right	22.00	/	/	20.55	/	/	<=34.77	Pass		
DFT-s-OFDM 64 QAM	704	Edge_1RB_Left	21.19	/	/	19.74	/	/	<=34.77	Pass	



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		Edge_1RB_Right	20.87	/	/	19.42	/	/	<=34.77	Pass
		Outer_Full	19.42	/	/	17.97	/	/	<=34.77	Pass
		Inner_Full	20.85	/	/	19.4	/	/	<=34.77	Pass
		Inner_1RB_Left	21.10	/	/	19.65	/	/	<=34.77	Pass
		Inner_1RB_Right	20.83	/	/	19.38	/	/	<=34.77	Pass
	707.5	Edge_1RB_Left	21.09	/	/	19.64	/	/	<=34.77	Pass
		Edge_1RB_Right	20.86	/	/	19.41	/	/	<=34.77	Pass
		Outer_Full	19.39	/	/	17.94	/	/	<=34.77	Pass
		Inner_Full	20.75	/	/	19.3	/	/	<=34.77	Pass
		Inner_1RB_Left	21.17	/	/	19.72	/	/	<=34.77	Pass
	711	Inner_1RB_Right	20.87	/	/	19.42	/	/	<=34.77	Pass
		Edge_1RB_Left	20.96	/	/	19.51	/	/	<=34.77	Pass
		Edge_1RB_Right	20.76	/	/	19.31	/	/	<=34.77	Pass
		Outer_Full	19.29	/	/	17.84	/	/	<=34.77	Pass
		Inner_Full	20.71	/	/	19.26	/	/	<=34.77	Pass
DFT-s-OFDM 256 QAM	704	Inner_1RB_Left	20.95	/	/	19.5	/	/	<=34.77	Pass
		Inner_1RB_Right	20.76	/	/	19.31	/	/	<=34.77	Pass
		Edge_1RB_Left	18.36	/	/	16.91	/	/	<=34.77	Pass
		Edge_1RB_Right	18.27	/	/	16.82	/	/	<=34.77	Pass
		Outer_Full	16.34	/	/	14.89	/	/	<=34.77	Pass
	707.5	Inner_Full	18.75	/	/	17.3	/	/	<=34.77	Pass
		Inner_1RB_Left	18.36	/	/	16.91	/	/	<=34.77	Pass
		Inner_1RB_Right	18.26	/	/	16.81	/	/	<=34.77	Pass
		Edge_1RB_Left	18.38	/	/	16.93	/	/	<=34.77	Pass
		Edge_1RB_Right	18.28	/	/	16.83	/	/	<=34.77	Pass
	711	Outer_Full	16.30	/	/	14.85	/	/	<=34.77	Pass
		Inner_Full	18.79	/	/	17.34	/	/	<=34.77	Pass
		Inner_1RB_Left	18.37	/	/	16.92	/	/	<=34.77	Pass
		Inner_1RB_Right	18.21	/	/	16.76	/	/	<=34.77	Pass
		Edge_1RB_Left	18.17	/	/	16.72	/	/	<=34.77	Pass
CP-OFDM QPSK	704	Edge_1RB_Right	18.24	/	/	16.79	/	/	<=34.77	Pass
		Outer_Full	16.18	/	/	14.73	/	/	<=34.77	Pass
		Inner_Full	18.65	/	/	17.2	/	/	<=34.77	Pass
		Inner_1RB_Left	18.19	/	/	16.74	/	/	<=34.77	Pass
		Inner_1RB_Right	18.15	/	/	16.7	/	/	<=34.77	Pass
	707.5	Edge_1RB_Left	20.43	/	/	18.98	/	/	<=34.77	Pass
		Edge_1RB_Right	20.13	/	/	18.68	/	/	<=34.77	Pass
		Outer_Full	20.81	/	/	19.36	/	/	<=34.77	Pass
		Inner_Full	21.71	/	/	20.26	/	/	<=34.77	Pass
		Inner_1RB_Left	21.87	/	/	20.42	/	/	<=34.77	Pass
	711	Inner_1RB_Right	21.60	/	/	20.15	/	/	<=34.77	Pass
		Edge_1RB_Left	20.43	/	/	18.98	/	/	<=34.77	Pass
		Edge_1RB_Right	20.26	/	/	18.81	/	/	<=34.77	Pass
		Outer_Full	20.80	/	/	19.35	/	/	<=34.77	Pass
		Inner_Full	21.77	/	/	20.32	/	/	<=34.77	Pass
	711	Inner_1RB_Left	21.84	/	/	20.39	/	/	<=34.77	Pass
		Inner_1RB_Right	21.66	/	/	20.21	/	/	<=34.77	Pass
		Edge_1RB_Left	20.26	/	/	18.81	/	/	<=34.77	Pass



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		Edge_1RB_Right	19.95	/	/	18.5	/	/	<=34.77	Pass
		Outer_Full	20.77	/	/	19.32	/	/	<=34.77	Pass
		Inner_Full	21.64	/	/	20.19	/	/	<=34.77	Pass
		Inner_1RB_Left	21.76	/	/	20.31	/	/	<=34.77	Pass
		Inner_1RB_Right	21.49	/	/	20.04	/	/	<=34.77	Pass
CP-OFDM 16 QAM	704	Edge_1RB_Left	20.44	/	/	18.99	/	/	<=34.77	Pass
		Edge_1RB_Right	20.14	/	/	18.69	/	/	<=34.77	Pass
		Outer_Full	18.34	/	/	16.89	/	/	<=34.77	Pass
		Inner_Full	21.29	/	/	19.84	/	/	<=34.77	Pass
		Inner_1RB_Left	21.46	/	/	20.01	/	/	<=34.77	Pass
	707.5	Inner_1RB_Right	21.14	/	/	19.69	/	/	<=34.77	Pass
		Edge_1RB_Left	20.56	/	/	19.11	/	/	<=34.77	Pass
		Edge_1RB_Right	20.16	/	/	18.71	/	/	<=34.77	Pass
		Outer_Full	18.31	/	/	16.86	/	/	<=34.77	Pass
		Inner_Full	21.32	/	/	19.87	/	/	<=34.77	Pass
	711	Inner_1RB_Left	21.21	/	/	19.76	/	/	<=34.77	Pass
		Inner_1RB_Right	21.16	/	/	19.71	/	/	<=34.77	Pass
		Edge_1RB_Left	20.37	/	/	18.92	/	/	<=34.77	Pass
		Edge_1RB_Right	20.18	/	/	18.73	/	/	<=34.77	Pass
		Outer_Full	18.20	/	/	16.75	/	/	<=34.77	Pass
CP-OFDM 64 QAM	704	Inner_Full	21.19	/	/	19.74	/	/	<=34.77	Pass
		Inner_1RB_Left	21.33	/	/	19.88	/	/	<=34.77	Pass
		Inner_1RB_Right	21.18	/	/	19.73	/	/	<=34.77	Pass
		Edge_1RB_Left	19.98	/	/	18.53	/	/	<=34.77	Pass
		Edge_1RB_Right	19.67	/	/	18.22	/	/	<=34.77	Pass
	707.5	Outer_Full	17.89	/	/	16.44	/	/	<=34.77	Pass
		Inner_Full	19.86	/	/	18.41	/	/	<=34.77	Pass
		Inner_1RB_Left	19.96	/	/	18.51	/	/	<=34.77	Pass
		Inner_1RB_Right	19.73	/	/	18.28	/	/	<=34.77	Pass
		Edge_1RB_Left	20.09	/	/	18.64	/	/	<=34.77	Pass
	711	Edge_1RB_Right	19.75	/	/	18.3	/	/	<=34.77	Pass
		Outer_Full	17.82	/	/	16.37	/	/	<=34.77	Pass
		Inner_Full	19.82	/	/	18.37	/	/	<=34.77	Pass
		Inner_1RB_Left	19.95	/	/	18.5	/	/	<=34.77	Pass
		Inner_1RB_Right	19.74	/	/	18.29	/	/	<=34.77	Pass
CP-OFDM 256 QAM	704	Edge_1RB_Left	19.78	/	/	18.33	/	/	<=34.77	Pass
		Edge_1RB_Right	19.69	/	/	18.24	/	/	<=34.77	Pass
		Outer_Full	17.79	/	/	16.34	/	/	<=34.77	Pass
		Inner_Full	19.69	/	/	18.24	/	/	<=34.77	Pass
		Inner_1RB_Left	19.79	/	/	18.34	/	/	<=34.77	Pass
707.5	Inner_1RB_Right	19.67	/	/	18.22	/	/	<=34.77	Pass	
	Edge_1RB_Left	16.53	/	/	15.08	/	/	<=34.77	Pass	
	Edge_1RB_Right	16.38	/	/	14.93	/	/	<=34.77	Pass	
	Outer_Full	14.85	/	/	13.4	/	/	<=34.77	Pass	
	Inner_Full	16.87	/	/	15.42	/	/	<=34.77	Pass	
	704	Inner_1RB_Left	16.51	/	/	15.06	/	/	<=34.77	Pass
		Inner_1RB_Right	16.29	/	/	14.84	/	/	<=34.77	Pass
	707.5	Edge_1RB_Left	16.54	/	/	15.09	/	/	<=34.77	Pass



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711	Edge_1RB_Right	16.43	/	/	14.98	/	/	<=34.77	Pass
	Outer_Full	14.79	/	/	13.34	/	/	<=34.77	Pass
	Inner_Full	16.83	/	/	15.38	/	/	<=34.77	Pass
	Inner_1RB_Left	16.52	/	/	15.07	/	/	<=34.77	Pass
	Inner_1RB_Right	16.39	/	/	14.94	/	/	<=34.77	Pass
	Edge_1RB_Left	16.36	/	/	14.91	/	/	<=34.77	Pass
	Edge_1RB_Right	16.30	/	/	14.85	/	/	<=34.77	Pass
	Outer_Full	14.68	/	/	13.23	/	/	<=34.77	Pass
	Inner_Full	16.77	/	/	15.32	/	/	<=34.77	Pass
	Inner_1RB_Left	16.30	/	/	14.85	/	/	<=34.77	Pass
Inner_1RB_Right	16.31	/	/	14.86	/	/	<=34.77	Pass	

Note1: Antenna Gain: Ant1: 0.7dBi;

Note2: ERP=Conducted Power+Antenna Gain-2.15

1.3 15k_SISO_15MHz_NTNV_ERP

1.3.1 Test Result

5G NR n12 SCS=15kHz SISO 15MHz NTNv										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			ERP(dBm)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	706.5	Edge_1RB_Left	23.03	/	/	21.58	/	/	<=34.77	Pass
		Edge_1RB_Right	22.66	/	/	21.21	/	/	<=34.77	Pass
		Outer_Full	22.92	/	/	21.47	/	/	<=34.77	Pass
		Inner_Full	23.36	/	/	21.91	/	/	<=34.77	Pass
		Inner_1RB_Left	23.55	/	/	22.1	/	/	<=34.77	Pass
	Inner_1RB_Right	23.25	/	/	21.8	/	/	<=34.77	Pass	
	707.5	Edge_1RB_Left	22.98	/	/	21.53	/	/	<=34.77	Pass
		Edge_1RB_Right	22.75	/	/	21.3	/	/	<=34.77	Pass
		Outer_Full	22.91	/	/	21.46	/	/	<=34.77	Pass
		Inner_Full	23.38	/	/	21.93	/	/	<=34.77	Pass
		Inner_1RB_Left	23.48	/	/	22.03	/	/	<=34.77	Pass
	Inner_1RB_Right	23.04	/	/	21.59	/	/	<=34.77	Pass	
	708.5	Edge_1RB_Left	22.98	/	/	21.53	/	/	<=34.77	Pass
		Edge_1RB_Right	22.70	/	/	21.25	/	/	<=34.77	Pass
		Outer_Full	22.80	/	/	21.35	/	/	<=34.77	Pass
Inner_Full		23.34	/	/	21.89	/	/	<=34.77	Pass	
Inner_1RB_Left		23.42	/	/	21.97	/	/	<=34.77	Pass	
Inner_1RB_Right	23.15	/	/	21.7	/	/	<=34.77	Pass		
DFT-s-OFDM QPSK	706.5	Edge_1RB_Left	22.54	/	/	21.09	/	/	<=34.77	Pass
		Edge_1RB_Right	22.23	/	/	20.78	/	/	<=34.77	Pass
		Outer_Full	20.88	/	/	19.43	/	/	<=34.77	Pass
		Inner_Full	23.40	/	/	21.95	/	/	<=34.77	Pass
		Inner_1RB_Left	23.53	/	/	22.08	/	/	<=34.77	Pass
	Inner_1RB_Right	23.23	/	/	21.78	/	/	<=34.77	Pass	
	707.5	Edge_1RB_Left	22.39	/	/	20.94	/	/	<=34.77	Pass



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DFT-s-OFDM 16 QAM	708.5	Edge_1RB_Right	22.06	/	/	20.61	/	/	<=34.77	Pass	
		Outer_Full	20.89	/	/	19.44	/	/	<=34.77	Pass	
		Inner_Full	23.34	/	/	21.89	/	/	<=34.77	Pass	
		Inner_1RB_Left	23.39	/	/	21.94	/	/	<=34.77	Pass	
		Inner_1RB_Right	23.05	/	/	21.6	/	/	<=34.77	Pass	
	706.5	Edge_1RB_Left	22.40	/	/	20.95	/	/	<=34.77	Pass	
		Edge_1RB_Right	22.09	/	/	20.64	/	/	<=34.77	Pass	
		Outer_Full	20.82	/	/	19.37	/	/	<=34.77	Pass	
		Inner_Full	23.29	/	/	21.84	/	/	<=34.77	Pass	
		Inner_1RB_Left	23.41	/	/	21.96	/	/	<=34.77	Pass	
	DFT-s-OFDM 64 QAM	707.5	Inner_1RB_Right	23.14	/	/	21.69	/	/	<=34.77	Pass
			Edge_1RB_Left	21.52	/	/	20.07	/	/	<=34.77	Pass
			Edge_1RB_Right	21.05	/	/	19.6	/	/	<=34.77	Pass
			Outer_Full	19.82	/	/	18.37	/	/	<=34.77	Pass
			Inner_Full	22.42	/	/	20.97	/	/	<=34.77	Pass
708.5		Inner_1RB_Left	22.38	/	/	20.93	/	/	<=34.77	Pass	
		Inner_1RB_Right	22.17	/	/	20.72	/	/	<=34.77	Pass	
		Edge_1RB_Left	21.40	/	/	19.95	/	/	<=34.77	Pass	
		Edge_1RB_Right	21.07	/	/	19.62	/	/	<=34.77	Pass	
		Outer_Full	19.90	/	/	18.45	/	/	<=34.77	Pass	
706.5	Inner_Full	22.25	/	/	20.8	/	/	<=34.77	Pass		
	Inner_1RB_Left	22.29	/	/	20.84	/	/	<=34.77	Pass		
	Inner_1RB_Right	21.99	/	/	20.54	/	/	<=34.77	Pass		
	Edge_1RB_Left	21.30	/	/	19.85	/	/	<=34.77	Pass		
	Edge_1RB_Right	21.06	/	/	19.61	/	/	<=34.77	Pass		
DFT-s-OFDM 256	707.5	Outer_Full	19.88	/	/	18.43	/	/	<=34.77	Pass	
		Inner_Full	22.36	/	/	20.91	/	/	<=34.77	Pass	
		Inner_1RB_Left	22.24	/	/	20.79	/	/	<=34.77	Pass	
		Inner_1RB_Right	22.00	/	/	20.55	/	/	<=34.77	Pass	
		Edge_1RB_Left	21.07	/	/	19.62	/	/	<=34.77	Pass	
	708.5	Edge_1RB_Right	20.79	/	/	19.34	/	/	<=34.77	Pass	
		Outer_Full	19.45	/	/	18	/	/	<=34.77	Pass	
		Inner_Full	20.84	/	/	19.39	/	/	<=34.77	Pass	
		Inner_1RB_Left	21.16	/	/	19.71	/	/	<=34.77	Pass	
		Inner_1RB_Right	20.78	/	/	19.33	/	/	<=34.77	Pass	
	706.5	Edge_1RB_Left	21.10	/	/	19.65	/	/	<=34.77	Pass	
		Edge_1RB_Right	20.68	/	/	19.23	/	/	<=34.77	Pass	
		Outer_Full	19.43	/	/	17.98	/	/	<=34.77	Pass	
		Inner_Full	20.86	/	/	19.41	/	/	<=34.77	Pass	
		Inner_1RB_Left	21.12	/	/	19.67	/	/	<=34.77	Pass	
707.5	Inner_1RB_Right	20.77	/	/	19.32	/	/	<=34.77	Pass		
	Edge_1RB_Left	21.00	/	/	19.55	/	/	<=34.77	Pass		
	Edge_1RB_Right	20.76	/	/	19.31	/	/	<=34.77	Pass		
	Outer_Full	19.41	/	/	17.96	/	/	<=34.77	Pass		
	Inner_Full	20.88	/	/	19.43	/	/	<=34.77	Pass		
708.5	Inner_1RB_Left	21.01	/	/	19.56	/	/	<=34.77	Pass		
	Inner_1RB_Right	20.76	/	/	19.31	/	/	<=34.77	Pass		
	Edge_1RB_Left	18.51	/	/	17.06	/	/	<=34.77	Pass		



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QAM		Edge_1RB_Right	18.22	/	/	16.77	/	/	<=34.77	Pass
		Outer_Full	16.32	/	/	14.87	/	/	<=34.77	Pass
		Inner_Full	18.78	/	/	17.33	/	/	<=34.77	Pass
		Inner_1RB_Left	18.41	/	/	16.96	/	/	<=34.77	Pass
		Inner_1RB_Right	18.30	/	/	16.85	/	/	<=34.77	Pass
	707.5	Edge_1RB_Left	18.49	/	/	17.04	/	/	<=34.77	Pass
		Edge_1RB_Right	18.16	/	/	16.71	/	/	<=34.77	Pass
		Outer_Full	16.34	/	/	14.89	/	/	<=34.77	Pass
		Inner_Full	18.77	/	/	17.32	/	/	<=34.77	Pass
		Inner_1RB_Left	18.43	/	/	16.98	/	/	<=34.77	Pass
	708.5	Inner_1RB_Right	18.25	/	/	16.8	/	/	<=34.77	Pass
		Edge_1RB_Left	18.39	/	/	16.94	/	/	<=34.77	Pass
		Edge_1RB_Right	18.18	/	/	16.73	/	/	<=34.77	Pass
		Outer_Full	16.31	/	/	14.86	/	/	<=34.77	Pass
		Inner_Full	18.77	/	/	17.32	/	/	<=34.77	Pass
CP-OFDM QPSK	706.5	Inner_1RB_Left	18.37	/	/	16.92	/	/	<=34.77	Pass
		Inner_1RB_Right	18.19	/	/	16.74	/	/	<=34.77	Pass
		Edge_1RB_Left	20.55	/	/	19.1	/	/	<=34.77	Pass
		Edge_1RB_Right	20.23	/	/	18.78	/	/	<=34.77	Pass
		Outer_Full	20.89	/	/	19.44	/	/	<=34.77	Pass
	707.5	Inner_Full	21.81	/	/	20.36	/	/	<=34.77	Pass
		Inner_1RB_Left	21.94	/	/	20.49	/	/	<=34.77	Pass
		Inner_1RB_Right	21.69	/	/	20.24	/	/	<=34.77	Pass
		Edge_1RB_Left	20.50	/	/	19.05	/	/	<=34.77	Pass
		Edge_1RB_Right	20.27	/	/	18.82	/	/	<=34.77	Pass
	708.5	Outer_Full	20.87	/	/	19.42	/	/	<=34.77	Pass
		Inner_Full	21.77	/	/	20.32	/	/	<=34.77	Pass
		Inner_1RB_Left	21.93	/	/	20.48	/	/	<=34.77	Pass
		Inner_1RB_Right	21.69	/	/	20.24	/	/	<=34.77	Pass
		Edge_1RB_Left	20.47	/	/	19.02	/	/	<=34.77	Pass
CP-OFDM 16 QAM	706.5	Edge_1RB_Right	20.18	/	/	18.73	/	/	<=34.77	Pass
		Outer_Full	20.81	/	/	19.36	/	/	<=34.77	Pass
		Inner_Full	21.72	/	/	20.27	/	/	<=34.77	Pass
		Inner_1RB_Left	21.93	/	/	20.48	/	/	<=34.77	Pass
		Inner_1RB_Right	21.62	/	/	20.17	/	/	<=34.77	Pass
	707.5	Edge_1RB_Left	20.54	/	/	19.09	/	/	<=34.77	Pass
		Edge_1RB_Right	20.12	/	/	18.67	/	/	<=34.77	Pass
		Outer_Full	18.35	/	/	16.9	/	/	<=34.77	Pass
		Inner_Full	21.41	/	/	19.96	/	/	<=34.77	Pass
		Inner_1RB_Left	21.52	/	/	20.07	/	/	<=34.77	Pass
	708.5	Inner_1RB_Right	21.28	/	/	19.83	/	/	<=34.77	Pass
		Edge_1RB_Left	20.34	/	/	18.89	/	/	<=34.77	Pass
		Edge_1RB_Right	20.27	/	/	18.82	/	/	<=34.77	Pass
		Outer_Full	18.37	/	/	16.92	/	/	<=34.77	Pass
		Inner_Full	21.41	/	/	19.96	/	/	<=34.77	Pass
	Inner_1RB_Left	21.48	/	/	20.03	/	/	<=34.77	Pass	
	Inner_1RB_Right	21.15	/	/	19.7	/	/	<=34.77	Pass	
	Edge_1RB_Left	20.49	/	/	19.04	/	/	<=34.77	Pass	



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CP-OFDM 64 QAM	706.5	Edge_1RB_Right	20.26	/	/	18.81	/	/	<=34.77	Pass		
		Outer_Full	18.26	/	/	16.81	/	/	<=34.77	Pass		
		Inner_Full	21.42	/	/	19.97	/	/	<=34.77	Pass		
		Inner_1RB_Left	21.53	/	/	20.08	/	/	<=34.77	Pass		
		Inner_1RB_Right	21.18	/	/	19.73	/	/	<=34.77	Pass		
	707.5	706.5	Edge_1RB_Left	20.04	/	/	18.59	/	/	<=34.77	Pass	
			Edge_1RB_Right	19.84	/	/	18.39	/	/	<=34.77	Pass	
			Outer_Full	17.89	/	/	16.44	/	/	<=34.77	Pass	
			Inner_Full	19.89	/	/	18.44	/	/	<=34.77	Pass	
			Inner_1RB_Left	19.95	/	/	18.5	/	/	<=34.77	Pass	
		707.5	707.5	Inner_1RB_Right	19.66	/	/	18.21	/	/	<=34.77	Pass
				Edge_1RB_Left	19.94	/	/	18.49	/	/	<=34.77	Pass
				Edge_1RB_Right	19.66	/	/	18.21	/	/	<=34.77	Pass
				Outer_Full	17.84	/	/	16.39	/	/	<=34.77	Pass
				Inner_Full	19.83	/	/	18.38	/	/	<=34.77	Pass
708.5	708.5	Inner_1RB_Left	19.99	/	/	18.54	/	/	<=34.77	Pass		
		Inner_1RB_Right	19.65	/	/	18.2	/	/	<=34.77	Pass		
		Edge_1RB_Left	19.98	/	/	18.53	/	/	<=34.77	Pass		
		Edge_1RB_Right	19.77	/	/	18.32	/	/	<=34.77	Pass		
		Outer_Full	17.80	/	/	16.35	/	/	<=34.77	Pass		
CP-OFDM 256 QAM	706.5	Inner_Full	19.81	/	/	18.36	/	/	<=34.77	Pass		
		Inner_1RB_Left	19.99	/	/	18.54	/	/	<=34.77	Pass		
		Inner_1RB_Right	19.72	/	/	18.27	/	/	<=34.77	Pass		
		707.5	706.5	Edge_1RB_Left	16.68	/	/	15.23	/	/	<=34.77	Pass
				Edge_1RB_Right	16.39	/	/	14.94	/	/	<=34.77	Pass
	Outer_Full			14.97	/	/	13.52	/	/	<=34.77	Pass	
	Inner_Full			16.83	/	/	15.38	/	/	<=34.77	Pass	
	Inner_1RB_Left			16.54	/	/	15.09	/	/	<=34.77	Pass	
	707.5	707.5	Inner_1RB_Right	16.36	/	/	14.91	/	/	<=34.77	Pass	
			Edge_1RB_Left	16.61	/	/	15.16	/	/	<=34.77	Pass	
			Edge_1RB_Right	16.36	/	/	14.91	/	/	<=34.77	Pass	
			Outer_Full	14.90	/	/	13.45	/	/	<=34.77	Pass	
			Inner_Full	16.80	/	/	15.35	/	/	<=34.77	Pass	
	708.5	708.5	Inner_1RB_Left	16.57	/	/	15.12	/	/	<=34.77	Pass	
			Inner_1RB_Right	16.36	/	/	14.91	/	/	<=34.77	Pass	
Edge_1RB_Left			16.63	/	/	15.18	/	/	<=34.77	Pass		
Edge_1RB_Right			16.44	/	/	14.99	/	/	<=34.77	Pass		
Outer_Full			14.85	/	/	13.4	/	/	<=34.77	Pass		
708.5	708.5	Inner_Full	16.76	/	/	15.31	/	/	<=34.77	Pass		
		Inner_1RB_Left	16.62	/	/	15.17	/	/	<=34.77	Pass		
		Inner_1RB_Right	16.40	/	/	14.95	/	/	<=34.77	Pass		
		Inner_1RB_Right	16.40	/	/	14.95	/	/	<=34.77	Pass		

Note1: Antenna Gain: Ant1: 0.7dBi;

Note2: ERP=Conducted Power+Antenna Gain-2.15



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2. Frequency Stability

2.1 15k_SISO_5MHz

2.1.1 Test Result

5G NR n12 SCS=15kHz SISO 5MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	707.5	Outer_Full	20	LV	1.00	0.0014	/	Pass
				HV	-3.00	-0.0042	/	Pass
			-30	NV	-3.10	-0.0044	/	Pass
				NV	-2.60	-0.0037	/	Pass
			-10	NV	-1.10	-0.0016	/	Pass
				NV	4.50	0.0064	/	Pass
			10	NV	-5.20	-0.0073	/	Pass
				NV	-3.70	-0.0052	/	Pass
			30	NV	-3.80	-0.0054	/	Pass
				NV	0.80	0.0011	/	Pass
50	NV	-3.20	-0.0045	/	Pass			
	NV	2.00	0.0028	/	Pass			
DFT-s-OFDM QPSK	707.5	Outer_Full	20	LV	-3.20	-0.0045	/	Pass
				HV	-3.50	-0.0049	/	Pass
			-30	NV	-0.50	-0.0007	/	Pass
				NV	-1.10	-0.0016	/	Pass
			-10	NV	-1.80	-0.0025	/	Pass
				NV	-0.30	-0.0004	/	Pass
			10	NV	-1.50	-0.0021	/	Pass
				NV	-2.00	-0.0028	/	Pass
			30	NV	-1.70	-0.0024	/	Pass
				NV	-3.10	-0.0044	/	Pass
50	NV	2.00	0.0028	/	Pass			
	NV	0.50	0.0007	/	Pass			
DFT-s-OFDM 16 QAM	707.5	Outer_Full	20	LV	1.80	0.0025	/	Pass
				HV	-2.90	-0.0041	/	Pass
			-30	NV	-3.10	-0.0044	/	Pass
				NV	-1.00	-0.0014	/	Pass
			-10	NV	-1.60	-0.0023	/	Pass
				NV	0.50	0.0007	/	Pass
			10	NV	-2.10	-0.0030	/	Pass
				NV	-1.00	-0.0014	/	Pass
			30	NV	-2.00	-0.0028	/	Pass
				NV	-1.90	-0.0027	/	Pass
50	NV	-1.60	-0.0023	/	Pass			
	NV	-1.60	-0.0023	/	Pass			
DFT-s-OFDM 64 QAM	707.5	Outer_Full	20	LV	-2.20	-0.0031	/	Pass
				HV	-2.10	-0.0030	/	Pass
			-30	NV	-1.20	-0.0017	/	Pass
				NV	-3.80	-0.0054	/	Pass



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			-10	NV	-3.90	-0.0055	/	Pass
			0	NV	-0.90	-0.0013	/	Pass
			10	NV	0.80	0.0011	/	Pass
			20	NV	1.70	0.0024	/	Pass
			30	NV	-3.20	-0.0045	/	Pass
			40	NV	-4.70	-0.0066	/	Pass
			50	NV	-2.60	-0.0037	/	Pass
DFT-s-OFDM 256 QAM	707.5	Outer_Full	20	LV	-1.50	-0.0021	/	Pass
				HV	0.80	0.0011	/	Pass
			-30	NV	2.10	0.0030	/	Pass
			-20	NV	-3.00	-0.0042	/	Pass
			-10	NV	-2.20	-0.0031	/	Pass
			0	NV	-5.00	-0.0071	/	Pass
			10	NV	-2.10	-0.0030	/	Pass
			20	NV	-2.60	-0.0037	/	Pass
			30	NV	-2.10	-0.0030	/	Pass
			40	NV	-1.70	-0.0024	/	Pass
50	NV	-3.30	-0.0047	/	Pass			
CP-OFDM QPSK	707.5	Outer_Full	20	LV	1.50	0.0021	/	Pass
				HV	-1.80	-0.0025	/	Pass
			-30	NV	1.30	0.0018	/	Pass
			-20	NV	-1.20	-0.0017	/	Pass
			-10	NV	-0.90	-0.0013	/	Pass
			0	NV	-1.00	-0.0014	/	Pass
			10	NV	-1.70	-0.0024	/	Pass
			20	NV	1.00	0.0014	/	Pass
			30	NV	-3.70	-0.0052	/	Pass
			40	NV	1.80	0.0025	/	Pass
50	NV	-1.70	-0.0024	/	Pass			
CP-OFDM 16 QAM	707.5	Outer_Full	20	LV	-1.00	-0.0014	/	Pass
				HV	-0.30	-0.0004	/	Pass
			-30	NV	1.70	0.0024	/	Pass
			-20	NV	-1.40	-0.0020	/	Pass
			-10	NV	0.90	0.0013	/	Pass
			0	NV	-1.20	-0.0017	/	Pass
			10	NV	1.90	0.0027	/	Pass
			20	NV	-3.60	-0.0051	/	Pass
			30	NV	-1.20	-0.0017	/	Pass
			40	NV	1.40	0.0020	/	Pass
50	NV	1.20	0.0017	/	Pass			
CP-OFDM 64 QAM	707.5	Outer_Full	20	LV	-3.00	-0.0042	/	Pass
				HV	-3.20	-0.0045	/	Pass
			-30	NV	-3.70	-0.0052	/	Pass
			-20	NV	-4.10	-0.0058	/	Pass
			-10	NV	-0.60	-0.0008	/	Pass
			0	NV	-4.20	-0.0059	/	Pass
			10	NV	-3.00	-0.0042	/	Pass
			20	NV	-4.20	-0.0059	/	Pass



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			30	NV	1.70	0.0024	/	Pass
			40	NV	-5.60	-0.0079	/	Pass
			50	NV	-4.30	-0.0061	/	Pass
CP-OFDM 256 QAM	707.5	Outer_Full	20	LV	-3.90	-0.0055	/	Pass
				HV	-3.70	-0.0052	/	Pass
			-30	NV	-5.30	-0.0075	/	Pass
			-20	NV	-1.90	-0.0027	/	Pass
			-10	NV	-6.40	-0.0090	/	Pass
			0	NV	-3.20	-0.0045	/	Pass
			10	NV	-2.60	-0.0037	/	Pass
			20	NV	-3.60	-0.0051	/	Pass
			30	NV	-2.60	-0.0037	/	Pass
			40	NV	-2.70	-0.0038	/	Pass
			50	NV	-0.40	-0.0006	/	Pass

2.2 15k_SISO_10MHz

2.2.1 Test Result

5G NR n12 SCS=15kHz SISO 10MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	707.5	Outer_Full	20	LV	-2.20	-0.0031	/	Pass
				HV	-3.70	-0.0052	/	Pass
			-30	NV	-3.60	-0.0051	/	Pass
			-20	NV	-0.90	-0.0013	/	Pass
			-10	NV	-2.70	-0.0038	/	Pass
			0	NV	-1.50	-0.0021	/	Pass
			10	NV	-2.20	-0.0031	/	Pass
			20	NV	-4.00	-0.0057	/	Pass
			30	NV	-3.90	-0.0055	/	Pass
			40	NV	-1.70	-0.0024	/	Pass
DFT-s-OFDM QPSK	707.5	Outer_Full	20	LV	-2.50	-0.0035	/	Pass
				HV	-1.70	-0.0024	/	Pass
			-30	NV	-2.00	-0.0028	/	Pass
			-20	NV	-1.20	-0.0017	/	Pass
			-10	NV	-1.70	-0.0024	/	Pass
			0	NV	-2.90	-0.0041	/	Pass
			10	NV	-2.20	-0.0031	/	Pass
			20	NV	-1.70	-0.0024	/	Pass
			30	NV	-0.50	-0.0007	/	Pass
			40	NV	-1.80	-0.0025	/	Pass
DFT-s-OFDM 16 QAM	707.5	Outer_Full	20	LV	-3.10	-0.0044	/	Pass
				HV	-4.00	-0.0057	/	Pass



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			-30	NV	-2.90	-0.0041	/	Pass
			-20	NV	-1.60	-0.0023	/	Pass
			-10	NV	-2.40	-0.0034	/	Pass
			0	NV	-2.40	-0.0034	/	Pass
			10	NV	0.60	0.0008	/	Pass
			20	NV	2.00	0.0028	/	Pass
			30	NV	0.70	0.0010	/	Pass
			40	NV	-1.80	-0.0025	/	Pass
			50	NV	-4.40	-0.0062	/	Pass
DFT-s-OFDM 64 QAM	707.5	Outer_Full	20	LV	-1.50	-0.0021	/	Pass
				HV	0.60	0.0008	/	Pass
			-30	NV	-1.10	-0.0016	/	Pass
			-20	NV	-2.60	-0.0037	/	Pass
			-10	NV	-1.60	-0.0023	/	Pass
			0	NV	-1.60	-0.0023	/	Pass
			10	NV	-3.20	-0.0045	/	Pass
			20	NV	-1.80	-0.0025	/	Pass
			30	NV	-1.90	-0.0027	/	Pass
40	NV	-2.80	-0.0040	/	Pass			
50	NV	-2.00	-0.0028	/	Pass			
DFT-s-OFDM 256 QAM	707.5	Outer_Full	20	LV	-1.30	-0.0018	/	Pass
				HV	-1.80	-0.0025	/	Pass
			-30	NV	-3.30	-0.0047	/	Pass
			-20	NV	-2.60	-0.0037	/	Pass
			-10	NV	-3.40	-0.0048	/	Pass
			0	NV	-3.70	-0.0052	/	Pass
			10	NV	2.30	0.0033	/	Pass
			20	NV	-2.40	-0.0034	/	Pass
			30	NV	-1.10	-0.0016	/	Pass
40	NV	-0.80	-0.0011	/	Pass			
50	NV	-3.80	-0.0054	/	Pass			
CP-OFDM QPSK	707.5	Outer_Full	20	LV	-6.30	-0.0089	/	Pass
				HV	-5.40	-0.0076	/	Pass
			-30	NV	-6.20	-0.0088	/	Pass
			-20	NV	-5.80	-0.0082	/	Pass
			-10	NV	-5.30	-0.0075	/	Pass
			0	NV	-2.60	-0.0037	/	Pass
			10	NV	-6.50	-0.0092	/	Pass
			20	NV	-3.40	-0.0048	/	Pass
			30	NV	-3.60	-0.0051	/	Pass
40	NV	-4.40	-0.0062	/	Pass			
50	NV	-4.10	-0.0058	/	Pass			
CP-OFDM 16 QAM	707.5	Outer_Full	20	LV	-6.90	-0.0098	/	Pass
				HV	-5.10	-0.0072	/	Pass
			-30	NV	5.10	0.0072	/	Pass
			-20	NV	-2.60	-0.0037	/	Pass
			-10	NV	-4.20	-0.0059	/	Pass
0	NV	4.00	0.0057	/	Pass			



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			10	NV	-3.30	-0.0047	/	Pass
			20	NV	-3.70	-0.0052	/	Pass
			30	NV	-3.10	-0.0044	/	Pass
			40	NV	-5.90	-0.0083	/	Pass
			50	NV	-3.30	-0.0047	/	Pass
CP-OFDM 64 QAM	707.5	Outer_Full	20	LV	1.00	0.0014	/	Pass
				HV	-0.50	-0.0007	/	Pass
			-30	NV	-1.50	-0.0021	/	Pass
			-20	NV	-3.70	-0.0052	/	Pass
			-10	NV	-1.40	-0.0020	/	Pass
			0	NV	2.50	0.0035	/	Pass
			10	NV	-1.90	-0.0027	/	Pass
			20	NV	1.10	0.0016	/	Pass
			30	NV	0.90	0.0013	/	Pass
			40	NV	1.10	0.0016	/	Pass
			50	NV	-0.20	-0.0003	/	Pass
CP-OFDM 256 QAM	707.5	Outer_Full	20	LV	-3.10	-0.0044	/	Pass
				HV	0.50	0.0007	/	Pass
			-30	NV	-3.20	-0.0045	/	Pass
			-20	NV	-4.10	-0.0058	/	Pass
			-10	NV	-2.00	-0.0028	/	Pass
			0	NV	-1.90	-0.0027	/	Pass
			10	NV	-2.70	-0.0038	/	Pass
			20	NV	-1.40	-0.0020	/	Pass
			30	NV	-2.00	-0.0028	/	Pass
			40	NV	-2.90	-0.0041	/	Pass
			50	NV	-2.80	-0.0040	/	Pass

2.3 15k_SISO_15MHz

2.3.1 Test Result

5G NR n12 SCS=15kHz SISO 15MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	707.5	Outer_Full	20	LV	-1.70	-0.0024	/	Pass
				HV	-3.70	-0.0052	/	Pass
			-30	NV	-4.40	-0.0062	/	Pass
			-20	NV	-6.90	-0.0098	/	Pass
			-10	NV	-5.60	-0.0079	/	Pass
			0	NV	-2.10	-0.0030	/	Pass
			10	NV	-5.80	-0.0082	/	Pass
			20	NV	-4.80	-0.0068	/	Pass
			30	NV	-1.90	-0.0027	/	Pass
			40	NV	-1.00	-0.0014	/	Pass
			50	NV	-3.00	-0.0042	/	Pass



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DFT-s-OFDM QPSK	707.5	Outer_Full	20	LV	-5.90	-0.0083	/	Pass
				HV	-4.30	-0.0061	/	Pass
			-30	NV	-5.70	-0.0081	/	Pass
				NV	-4.60	-0.0065	/	Pass
			-10	NV	-4.90	-0.0069	/	Pass
				NV	-4.40	-0.0062	/	Pass
			10	NV	-4.80	-0.0068	/	Pass
				NV	-6.60	-0.0093	/	Pass
			30	NV	-5.20	-0.0073	/	Pass
				NV	-4.90	-0.0069	/	Pass
50	NV	-8.10	-0.0114	/	Pass			
	NV	-8.10	-0.0114	/	Pass			
DFT-s-OFDM 16 QAM	707.5	Outer_Full	20	LV	-3.00	-0.0042	/	Pass
				HV	-5.10	-0.0072	/	Pass
			-30	NV	-4.20	-0.0059	/	Pass
				NV	-4.50	-0.0064	/	Pass
			-10	NV	-6.80	-0.0096	/	Pass
				NV	-6.70	-0.0095	/	Pass
			10	NV	-4.20	-0.0059	/	Pass
				NV	-7.60	-0.0107	/	Pass
			30	NV	-5.50	-0.0078	/	Pass
				NV	-5.10	-0.0072	/	Pass
50	NV	-2.10	-0.0030	/	Pass			
	NV	-2.10	-0.0030	/	Pass			
DFT-s-OFDM 64 QAM	707.5	Outer_Full	20	LV	-8.60	-0.0122	/	Pass
				HV	-5.80	-0.0082	/	Pass
			-30	NV	-3.70	-0.0052	/	Pass
				NV	-5.30	-0.0075	/	Pass
			-10	NV	-4.90	-0.0069	/	Pass
				NV	-7.70	-0.0109	/	Pass
			10	NV	-6.30	-0.0089	/	Pass
				NV	-3.90	-0.0055	/	Pass
			30	NV	-6.60	-0.0093	/	Pass
				NV	-5.30	-0.0075	/	Pass
50	NV	-5.40	-0.0076	/	Pass			
	NV	-5.40	-0.0076	/	Pass			
DFT-s-OFDM 256 QAM	707.5	Outer_Full	20	LV	-1.50	-0.0021	/	Pass
				HV	-1.60	-0.0023	/	Pass
			-30	NV	-1.90	-0.0027	/	Pass
				NV	-2.00	-0.0028	/	Pass
			-10	NV	-0.40	-0.0006	/	Pass
				NV	-2.20	-0.0031	/	Pass
			10	NV	-1.10	-0.0016	/	Pass
				NV	-3.10	-0.0044	/	Pass
			30	NV	-1.10	-0.0016	/	Pass
				NV	0.60	0.0008	/	Pass
50	NV	1.20	0.0017	/	Pass			
	NV	1.20	0.0017	/	Pass			
CP-OFDM QPSK	707.5	Outer_Full	20	LV	-4.80	-0.0068	/	Pass
				HV	-7.70	-0.0109	/	Pass
			-30	NV	-6.50	-0.0092	/	Pass
				NV	-3.90	-0.0055	/	Pass



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			-10	NV	-4.50	-0.0064	/	Pass			
			0	NV	-3.30	-0.0047	/	Pass			
			10	NV	-8.00	-0.0113	/	Pass			
			20	NV	-3.80	-0.0054	/	Pass			
			30	NV	-5.90	-0.0083	/	Pass			
			40	NV	-6.90	-0.0098	/	Pass			
			50	NV	-8.10	-0.0114	/	Pass			
CP-OFDM 16 QAM	707.5	Outer_Full	20	LV	-5.50	-0.0078	/	Pass			
				HV	-3.80	-0.0054	/	Pass			
						-30	NV	-3.50	-0.0049	/	Pass
						-20	NV	-2.80	-0.0040	/	Pass
						-10	NV	-3.70	-0.0052	/	Pass
						0	NV	-4.80	-0.0068	/	Pass
						10	NV	-2.00	-0.0028	/	Pass
						20	NV	2.50	0.0035	/	Pass
						30	NV	-2.80	-0.0040	/	Pass
						40	NV	-3.30	-0.0047	/	Pass
			50	NV	-4.60	-0.0065	/	Pass			
CP-OFDM 64 QAM	707.5	Outer_Full	20	LV	2.10	0.0030	/	Pass			
				HV	2.90	0.0041	/	Pass			
						-30	NV	-5.00	-0.0071	/	Pass
						-20	NV	-3.20	-0.0045	/	Pass
						-10	NV	-1.90	-0.0027	/	Pass
						0	NV	-3.80	-0.0054	/	Pass
						10	NV	-4.80	-0.0068	/	Pass
						20	NV	-3.50	-0.0049	/	Pass
						30	NV	-3.60	-0.0051	/	Pass
						40	NV	-4.20	-0.0059	/	Pass
			50	NV	-2.50	-0.0035	/	Pass			
CP-OFDM 256 QAM	707.5	Outer_Full	20	LV	-2.50	-0.0035	/	Pass			
				HV	-5.00	-0.0071	/	Pass			
						-30	NV	-3.40	-0.0048	/	Pass
						-20	NV	-6.20	-0.0088	/	Pass
						-10	NV	-3.60	-0.0051	/	Pass
						0	NV	-3.70	-0.0052	/	Pass
						10	NV	-1.70	-0.0024	/	Pass
						20	NV	-3.40	-0.0048	/	Pass
						30	NV	-3.50	-0.0049	/	Pass
						40	NV	-0.60	-0.0008	/	Pass
			50	NV	-0.50	-0.0007	/	Pass			



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3. 99% & 26dB Bandwidth

3.1 15k_SISO_5MHz_NTNV

3.1.1 Test Result

5G NR n12 SCS=15kHz SISO 5MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	701.5	Outer_Full	4.51	5.05	/	Pass
	707.5	Outer_Full	4.53	5.04	/	Pass
	713.5	Outer_Full	4.54	5.08	/	Pass
DFT-s-OFDM QPSK	701.5	Outer_Full	4.51	5.02	/	Pass
	707.5	Outer_Full	4.51	5.05	/	Pass
	713.5	Outer_Full	4.52	5.02	/	Pass
DFT-s-OFDM 16 QAM	701.5	Outer_Full	4.53	5.03	/	Pass
	707.5	Outer_Full	4.53	5.06	/	Pass
	713.5	Outer_Full	4.54	5.06	/	Pass
DFT-s-OFDM 64 QAM	701.5	Outer_Full	4.51	5.02	/	Pass
	707.5	Outer_Full	4.52	5.02	/	Pass
	713.5	Outer_Full	4.55	5.06	/	Pass
DFT-s-OFDM 256 QAM	701.5	Outer_Full	4.52	5.06	/	Pass
	707.5	Outer_Full	4.50	5.05	/	Pass
	713.5	Outer_Full	4.51	5.02	/	Pass
CP-OFDM QPSK	701.5	Outer_Full	4.52	5.07	/	Pass
	707.5	Outer_Full	4.53	5.09	/	Pass
	713.5	Outer_Full	4.54	5.09	/	Pass
CP-OFDM 16 QAM	701.5	Outer_Full	4.54	5.07	/	Pass
	707.5	Outer_Full	4.52	5.04	/	Pass
	713.5	Outer_Full	4.54	5.05	/	Pass
CP-OFDM 64 QAM	701.5	Outer_Full	4.53	5.07	/	Pass
	707.5	Outer_Full	4.52	5.12	/	Pass
	713.5	Outer_Full	4.53	5.09	/	Pass
CP-OFDM 256 QAM	701.5	Outer_Full	4.53	5.09	/	Pass
	707.5	Outer_Full	4.53	5.11	/	Pass
	713.5	Outer_Full	4.53	5.15	/	Pass



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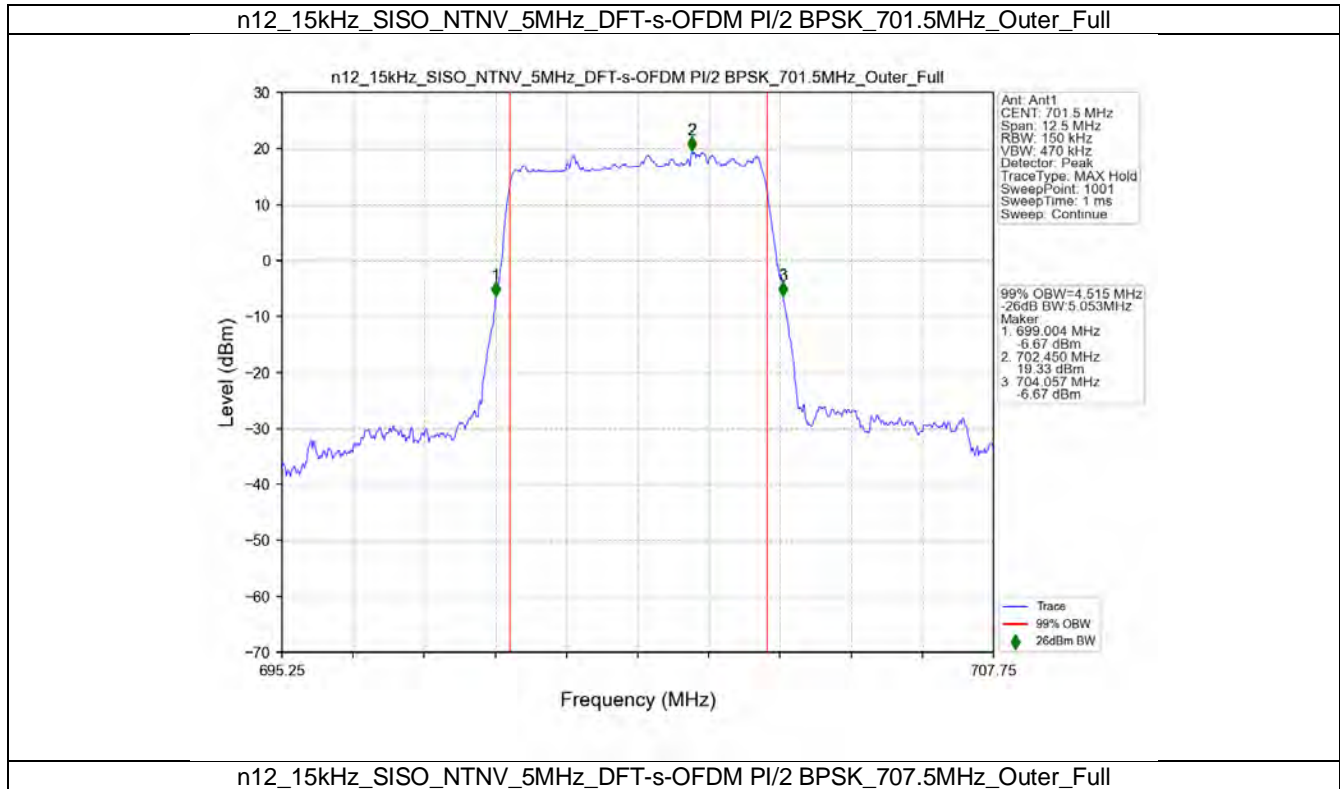
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3.1.2 Test Graph



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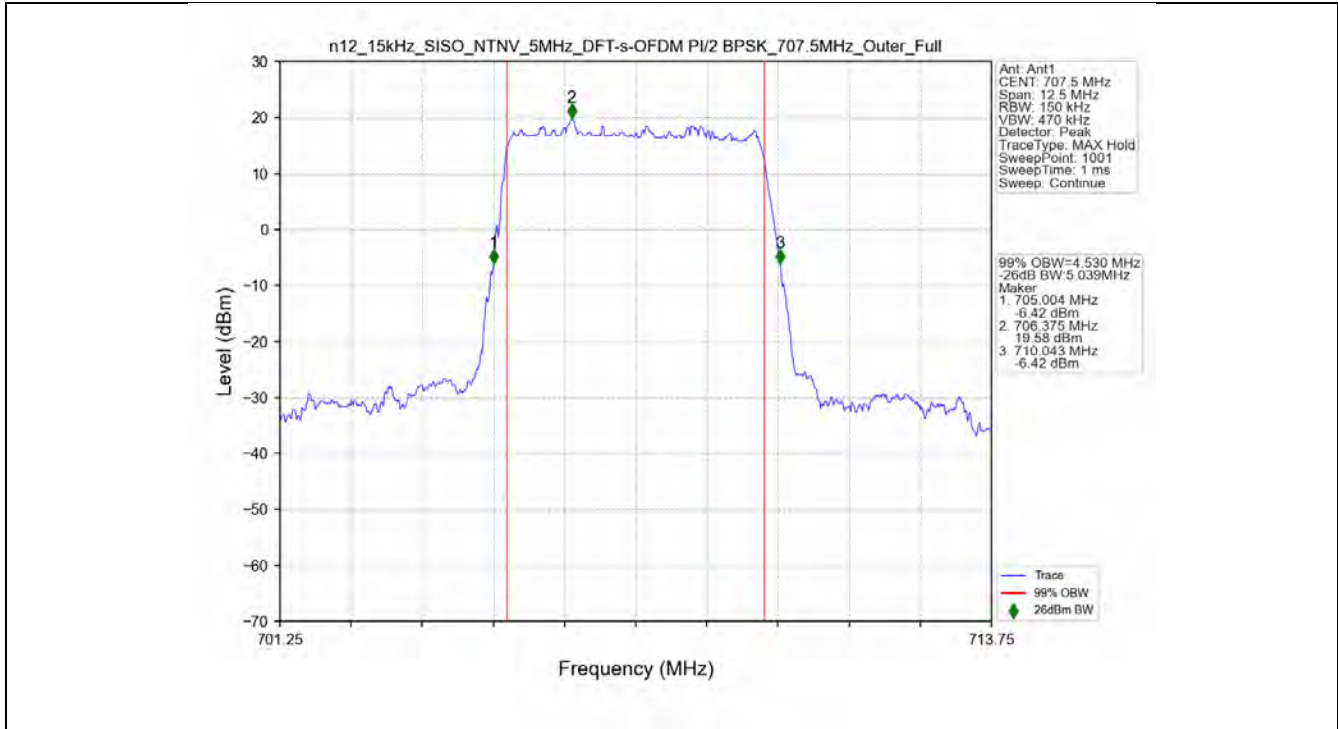


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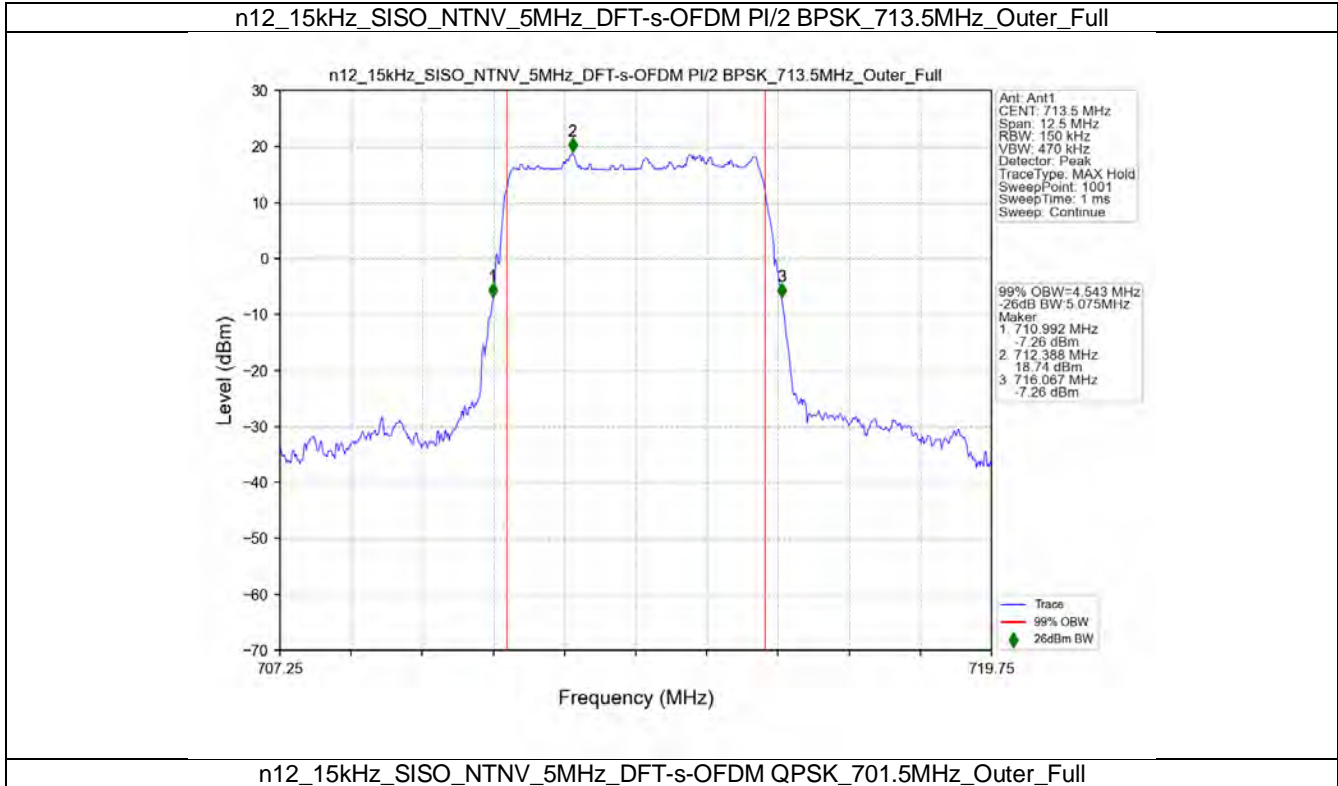


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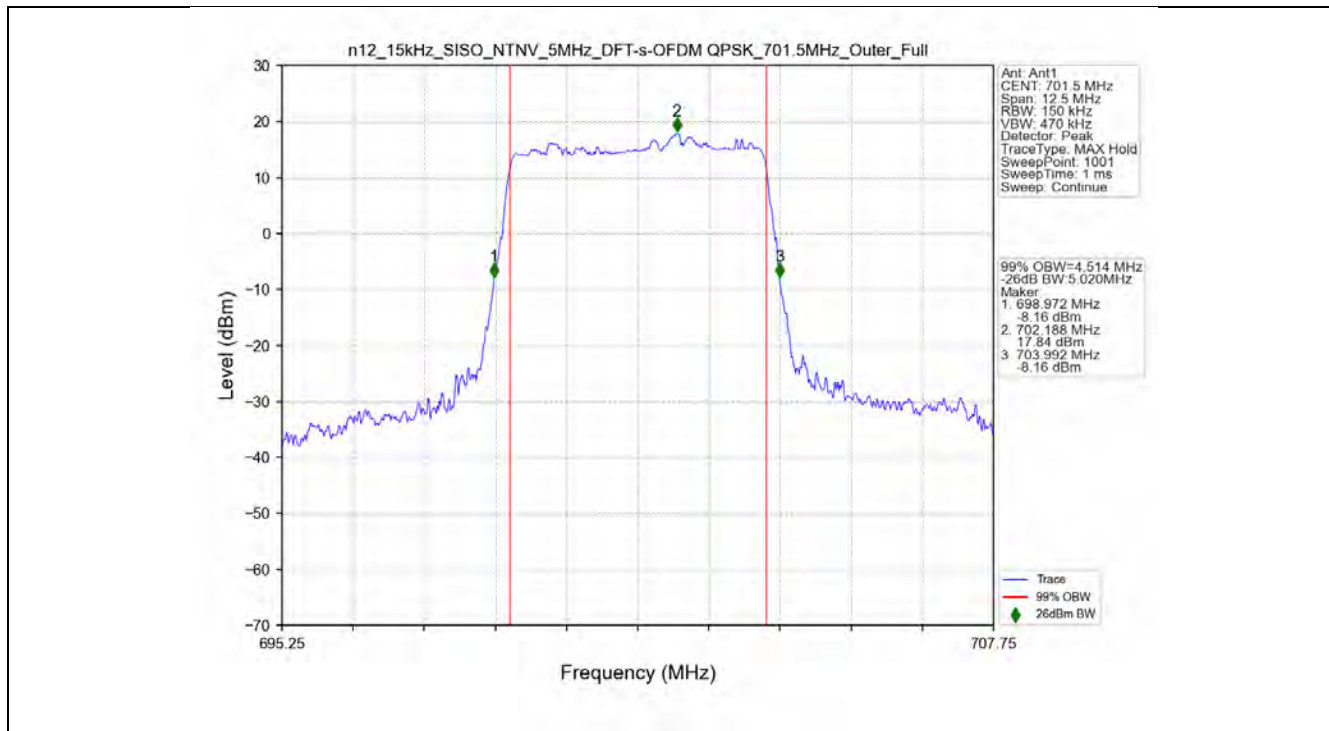
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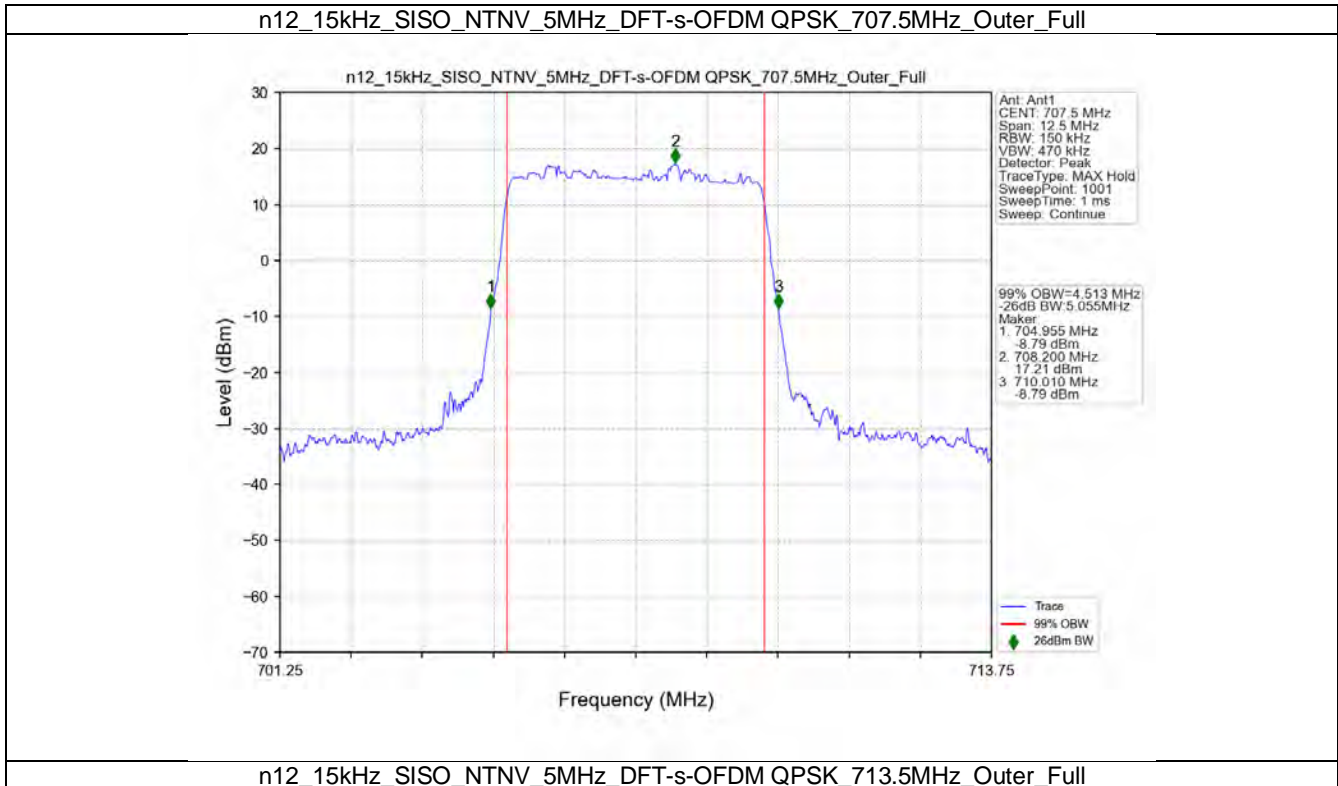


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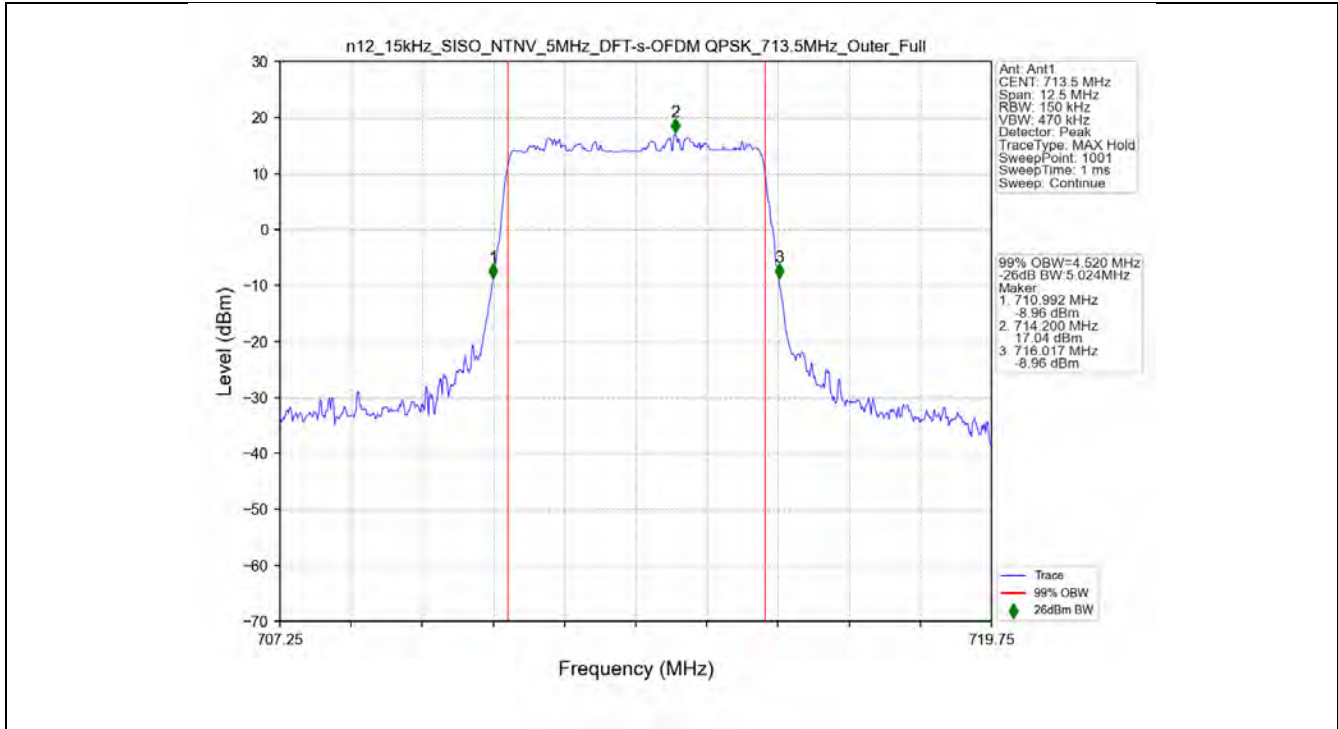


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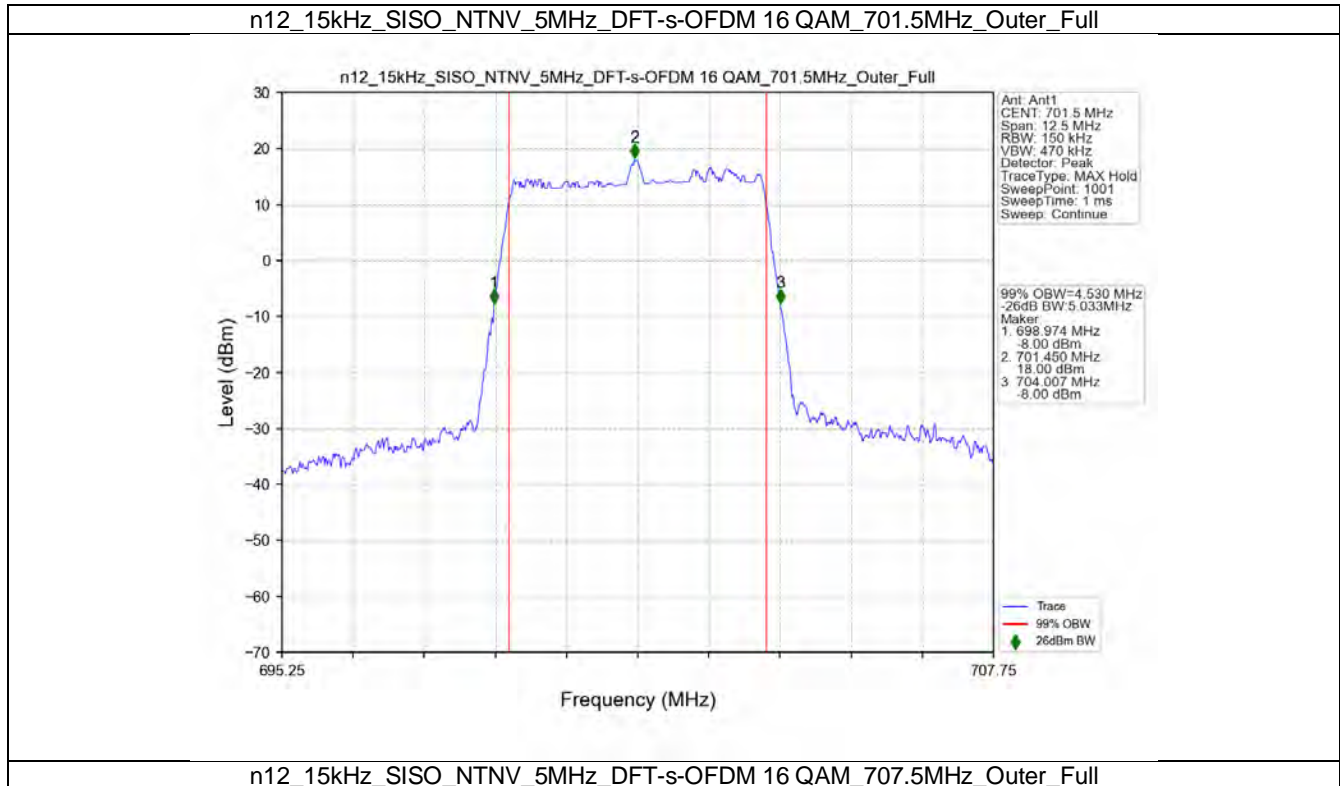


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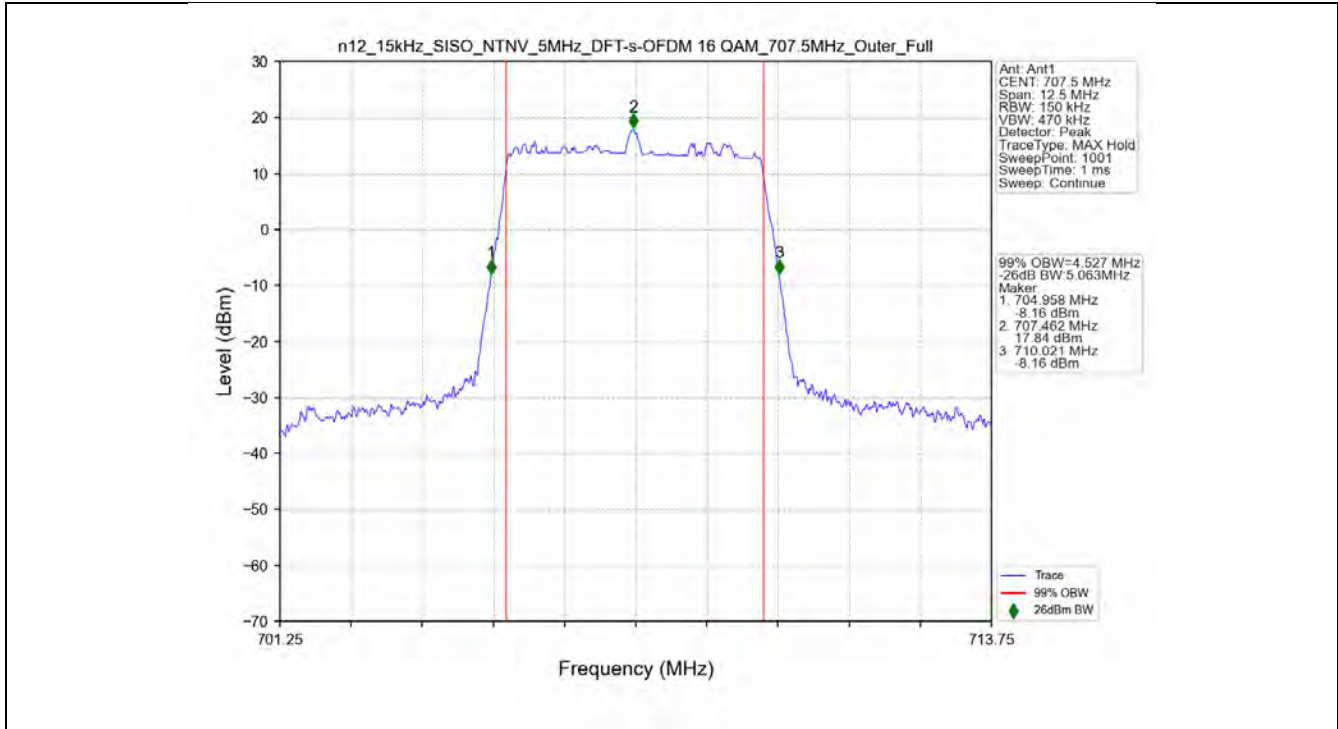


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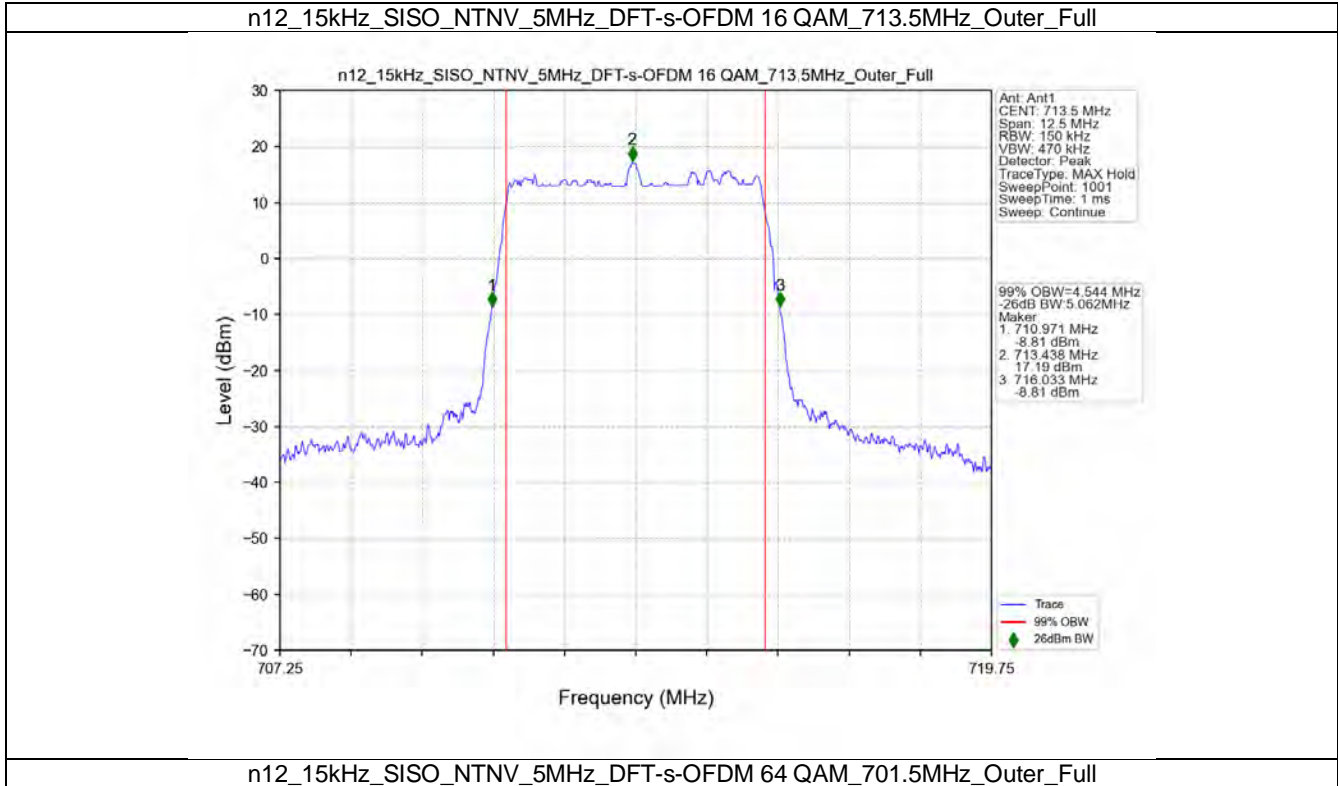


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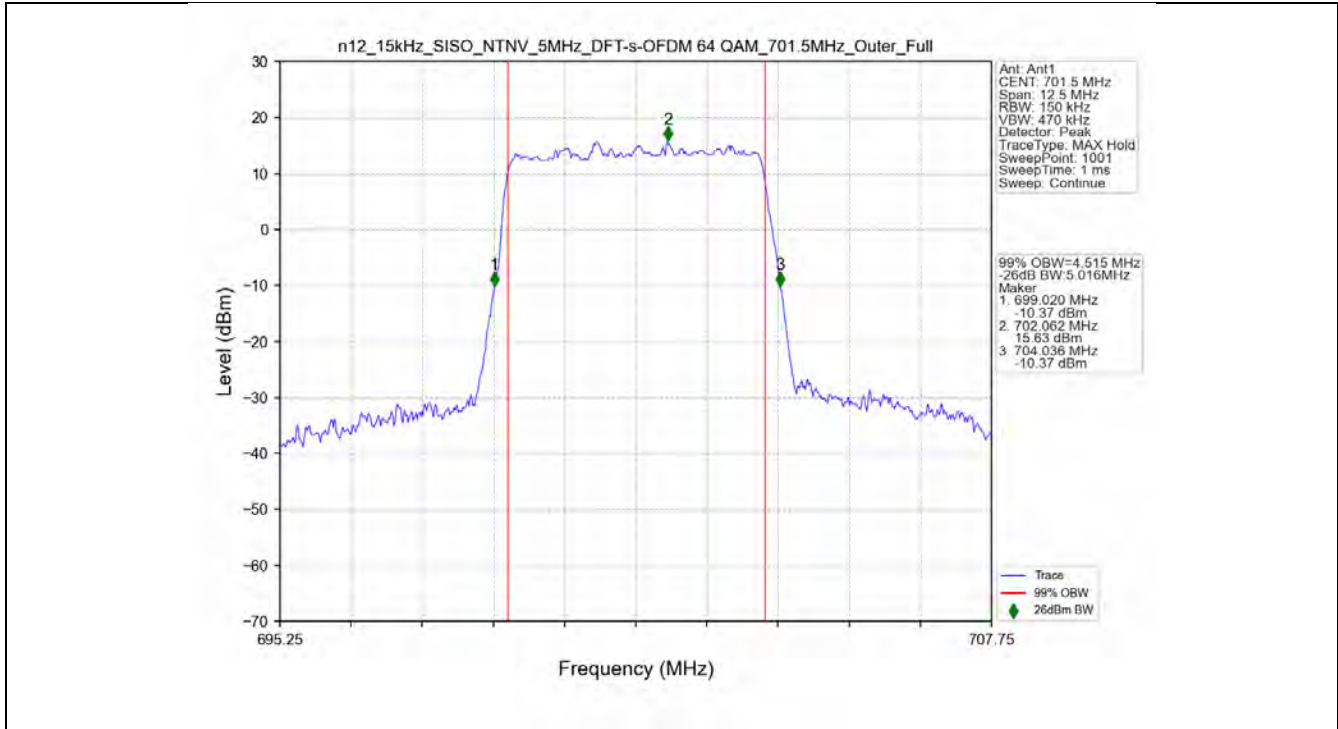


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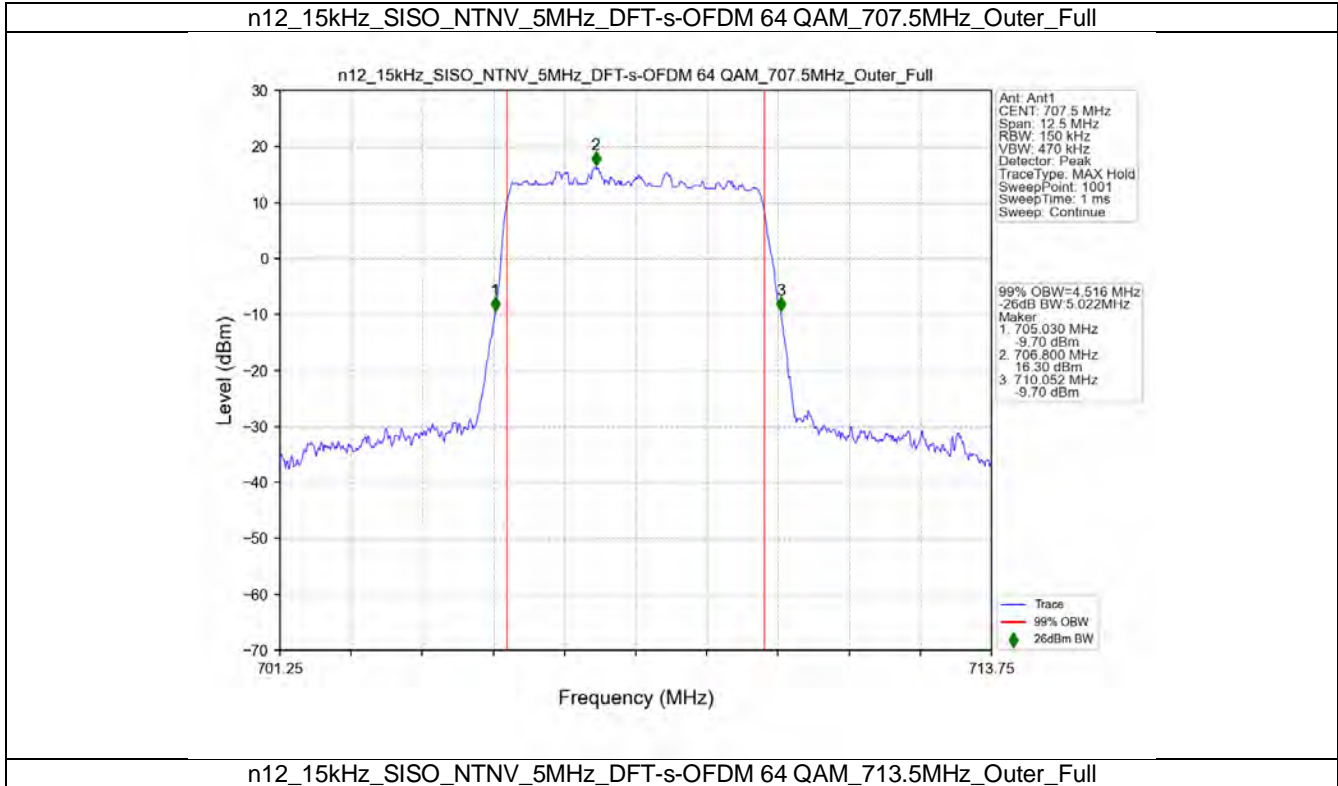


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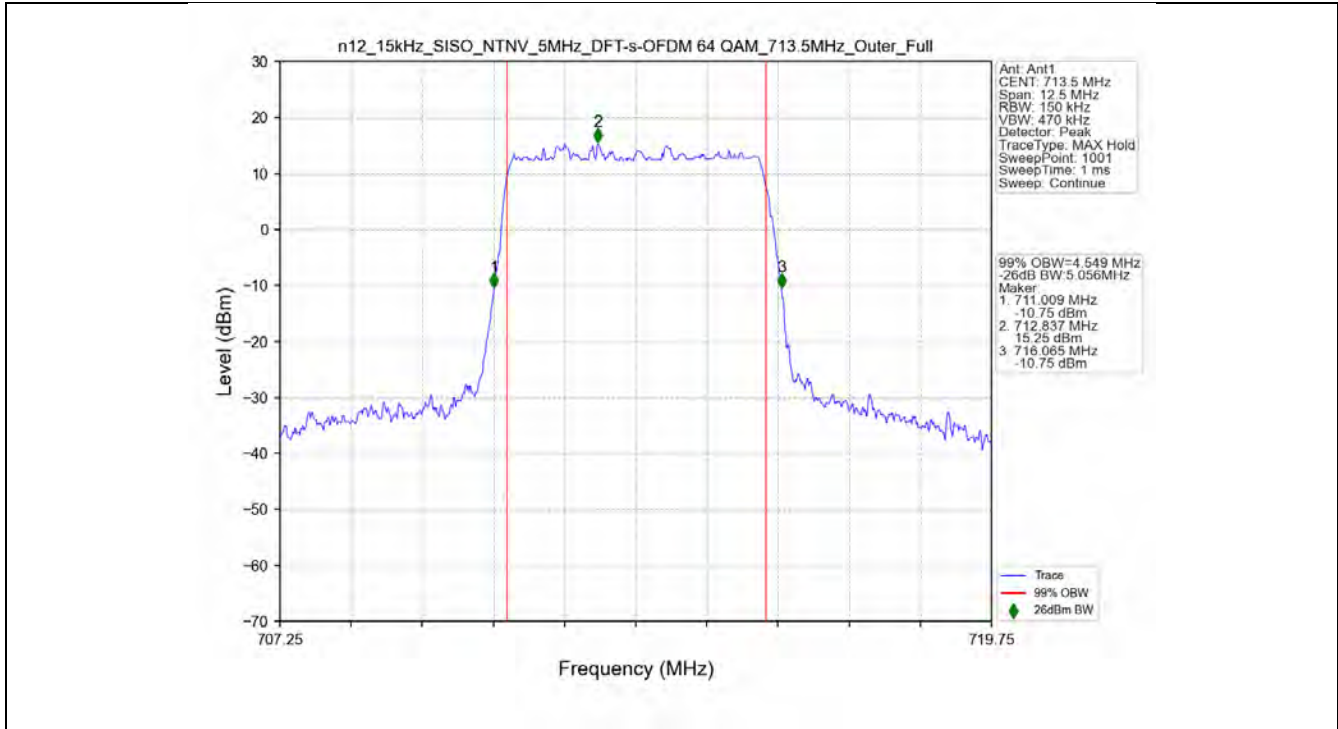


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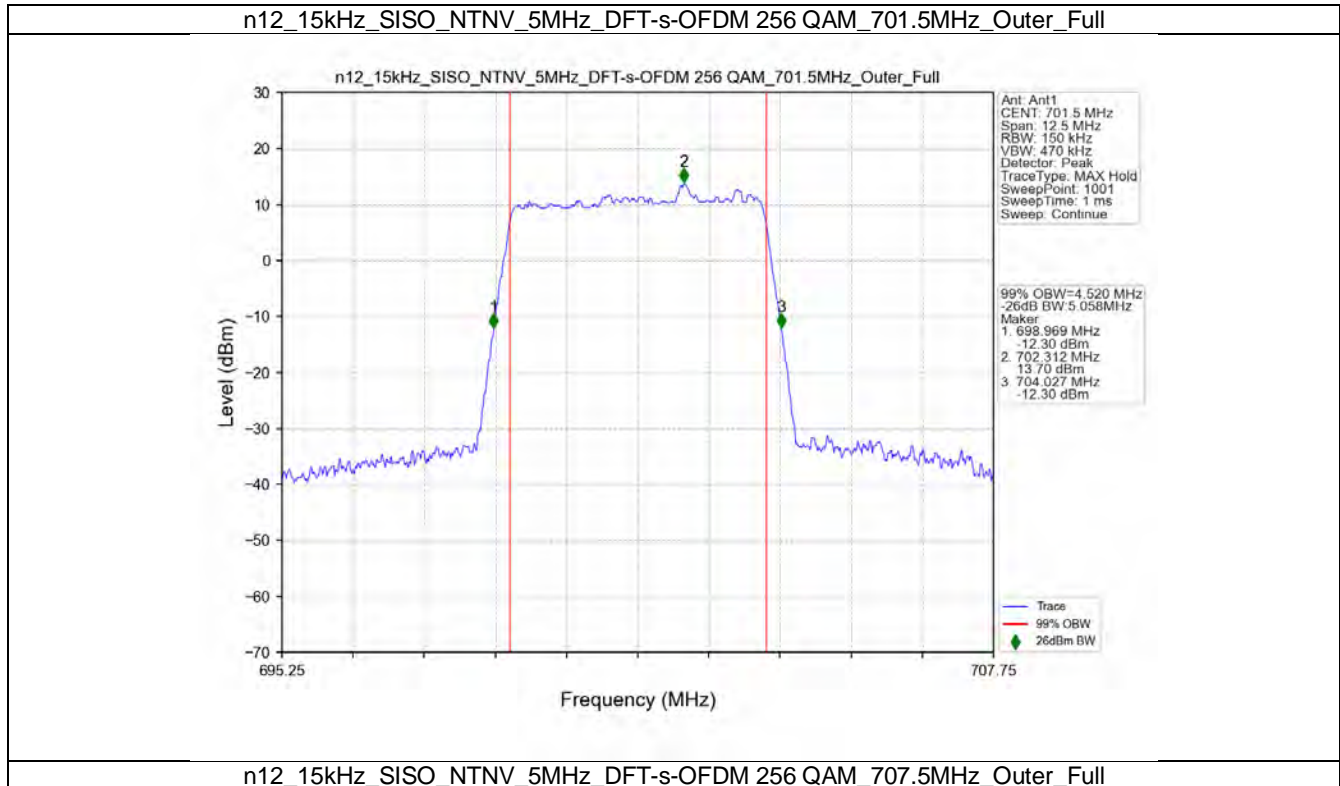


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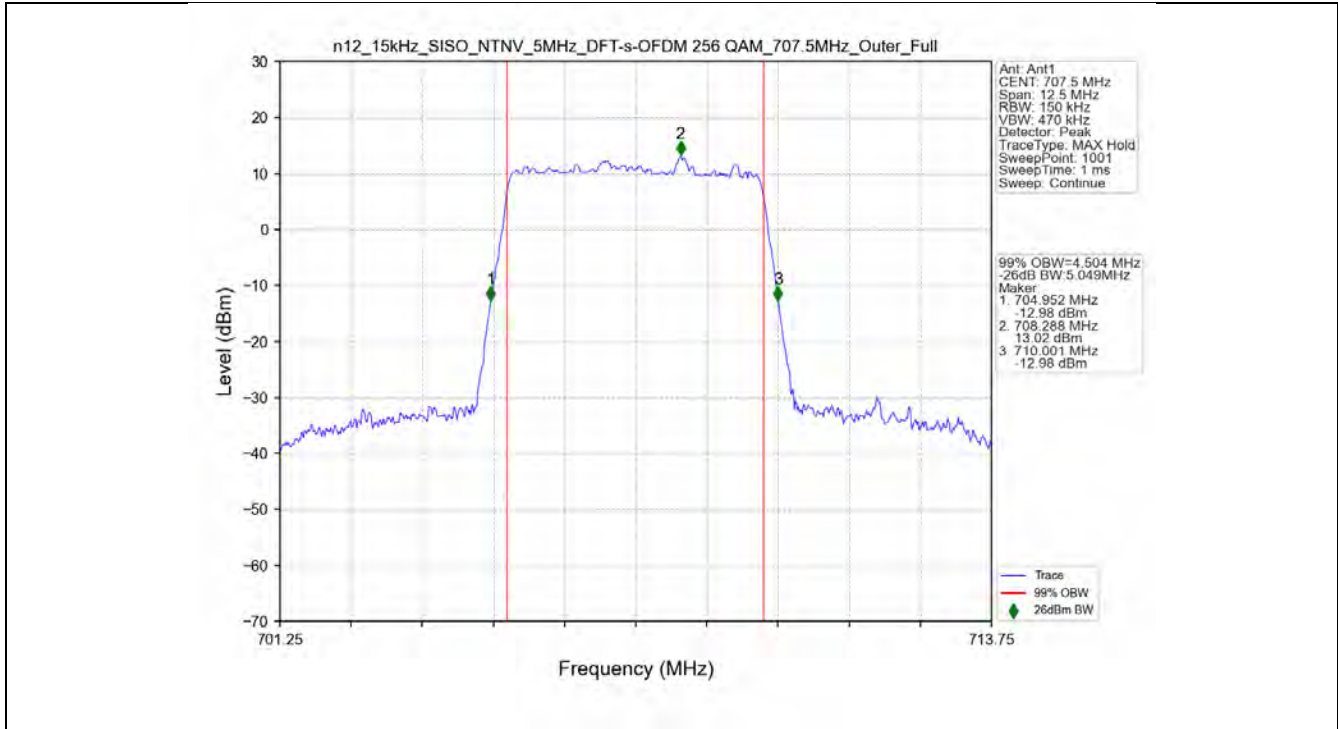


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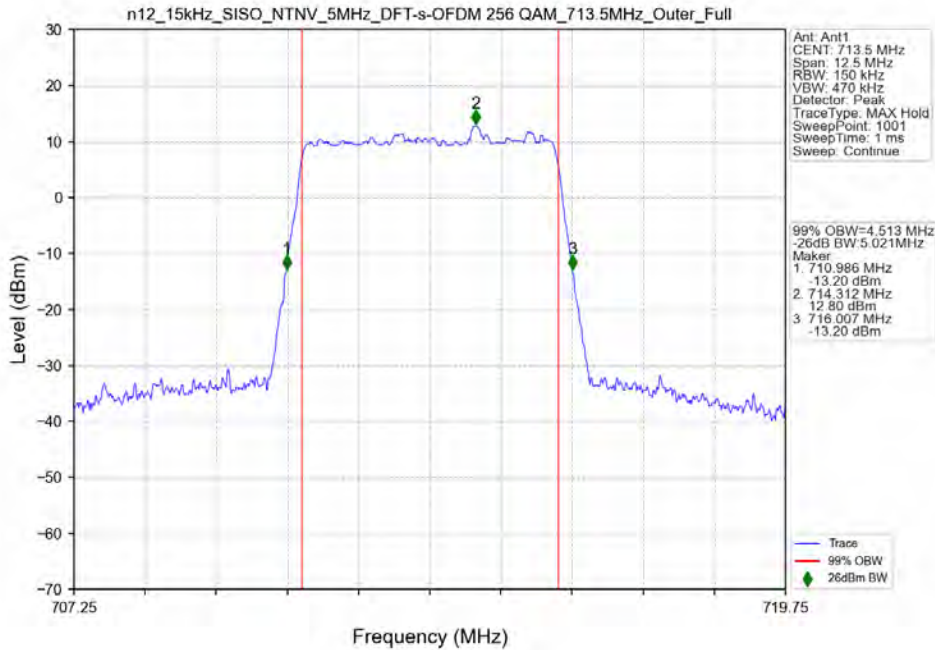
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Shenzhen Branch

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n12_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM 256 QAM_713.5MHz_Outer_Full



n12_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_701.5MHz_Outer_Full



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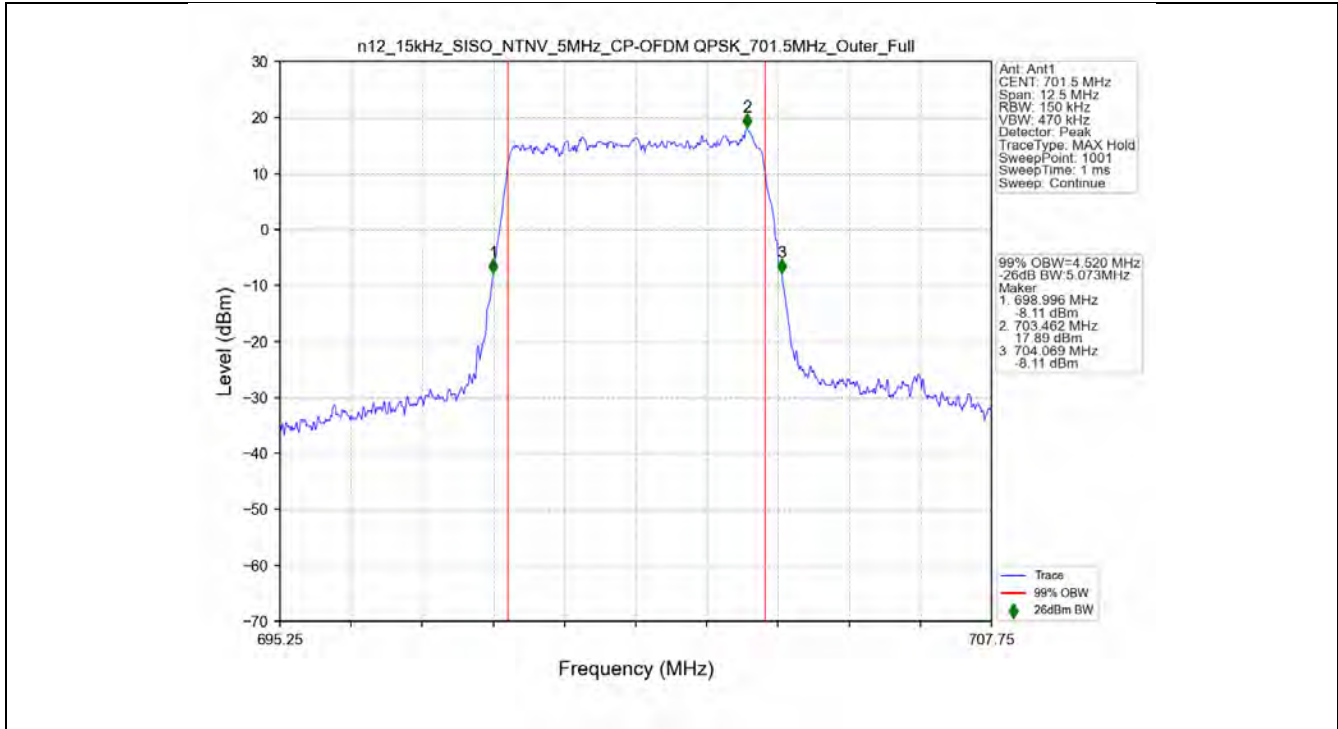


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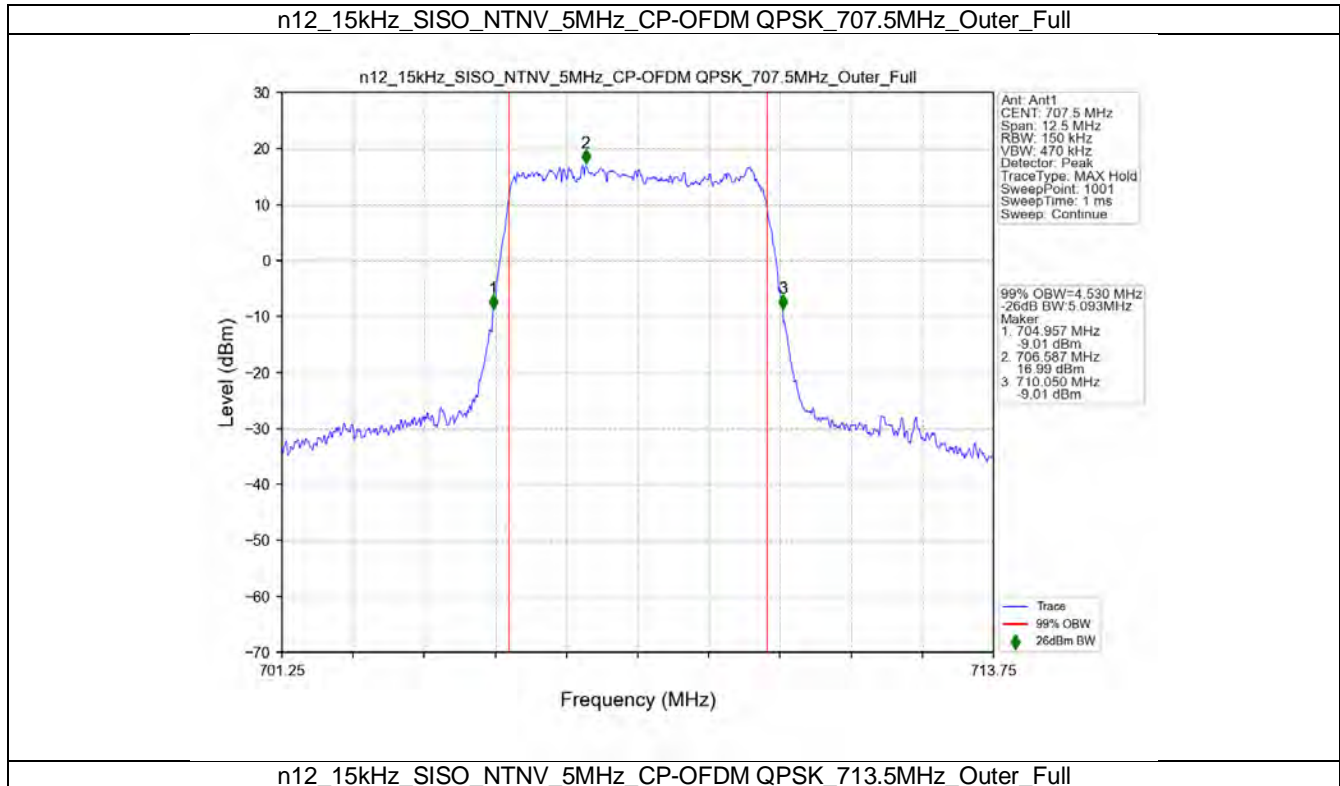


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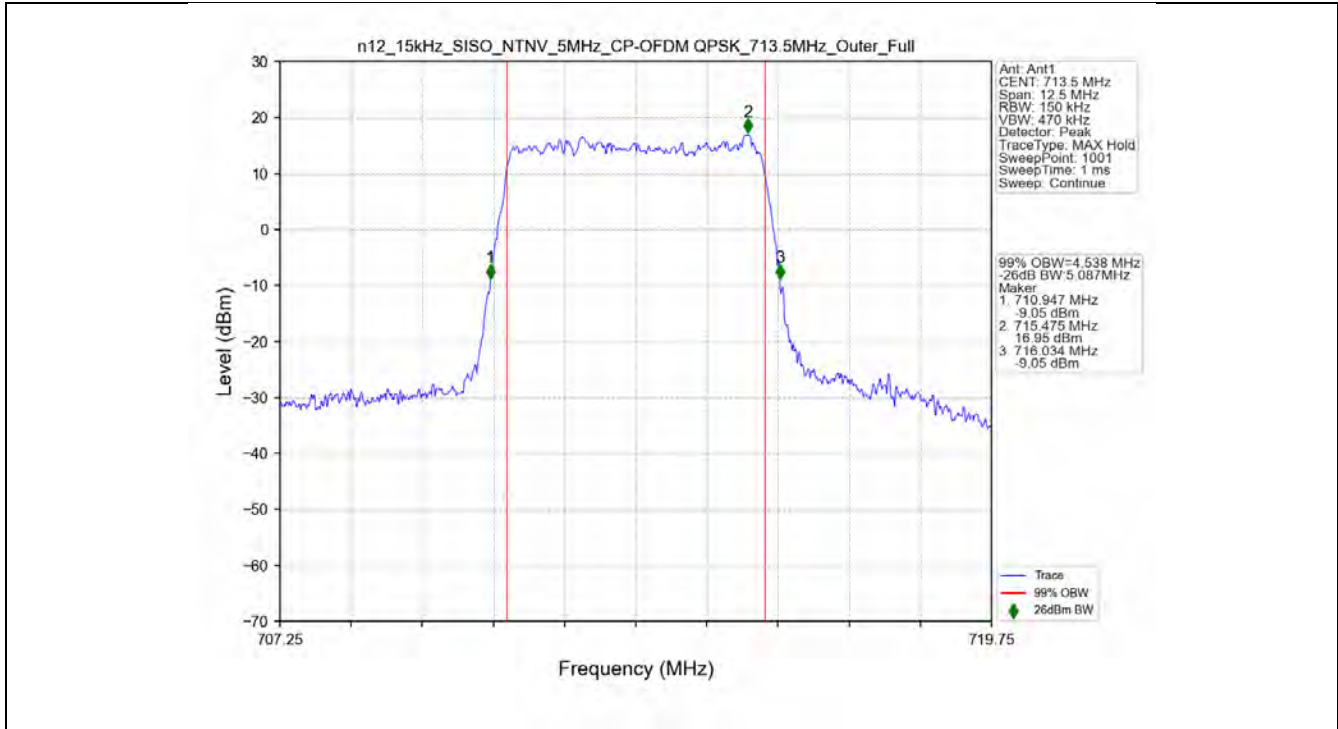


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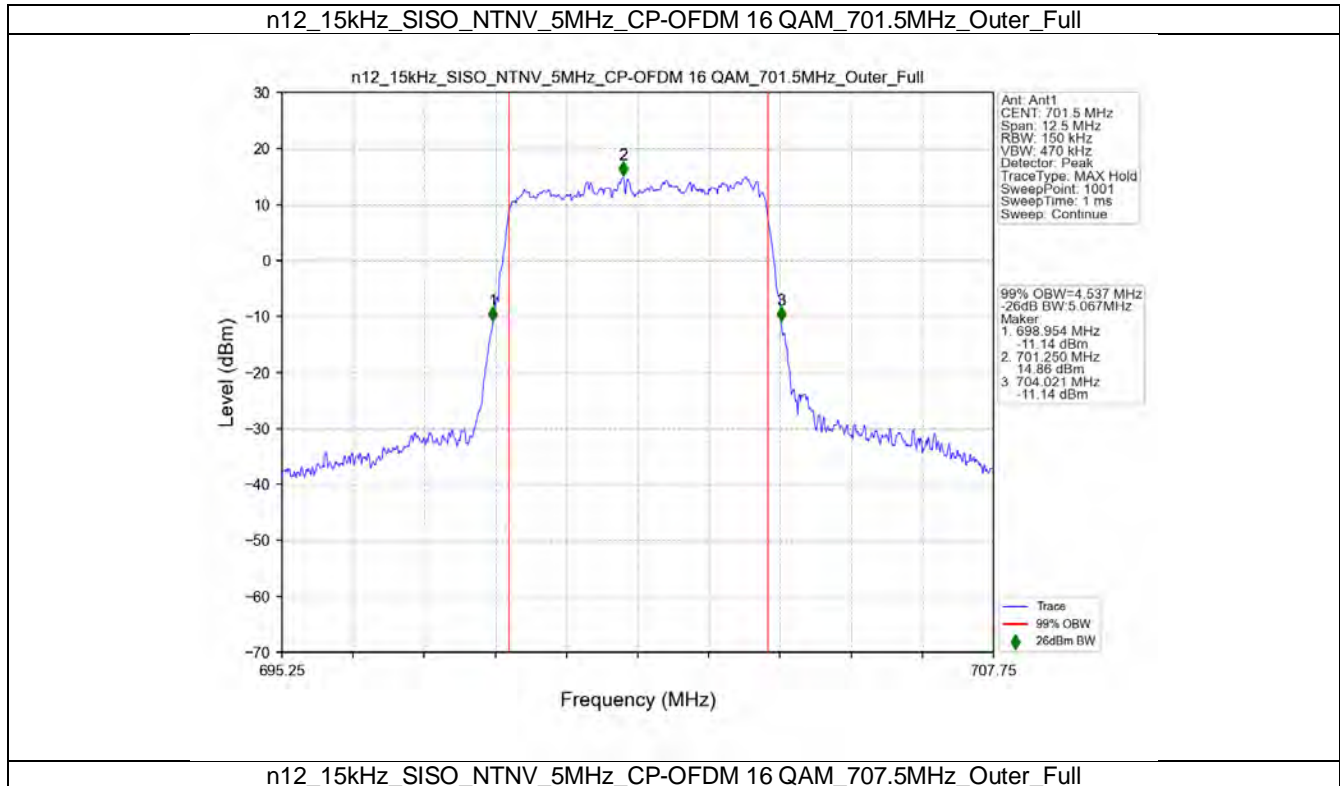


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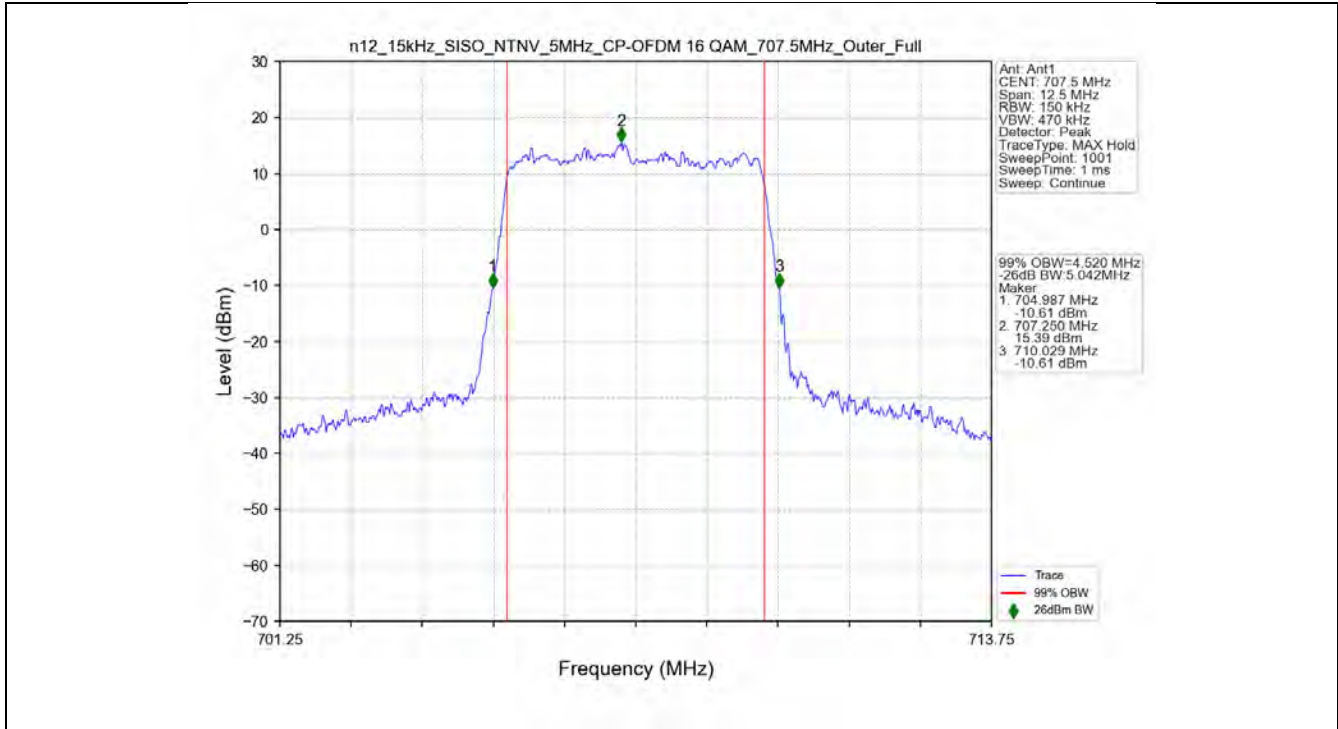


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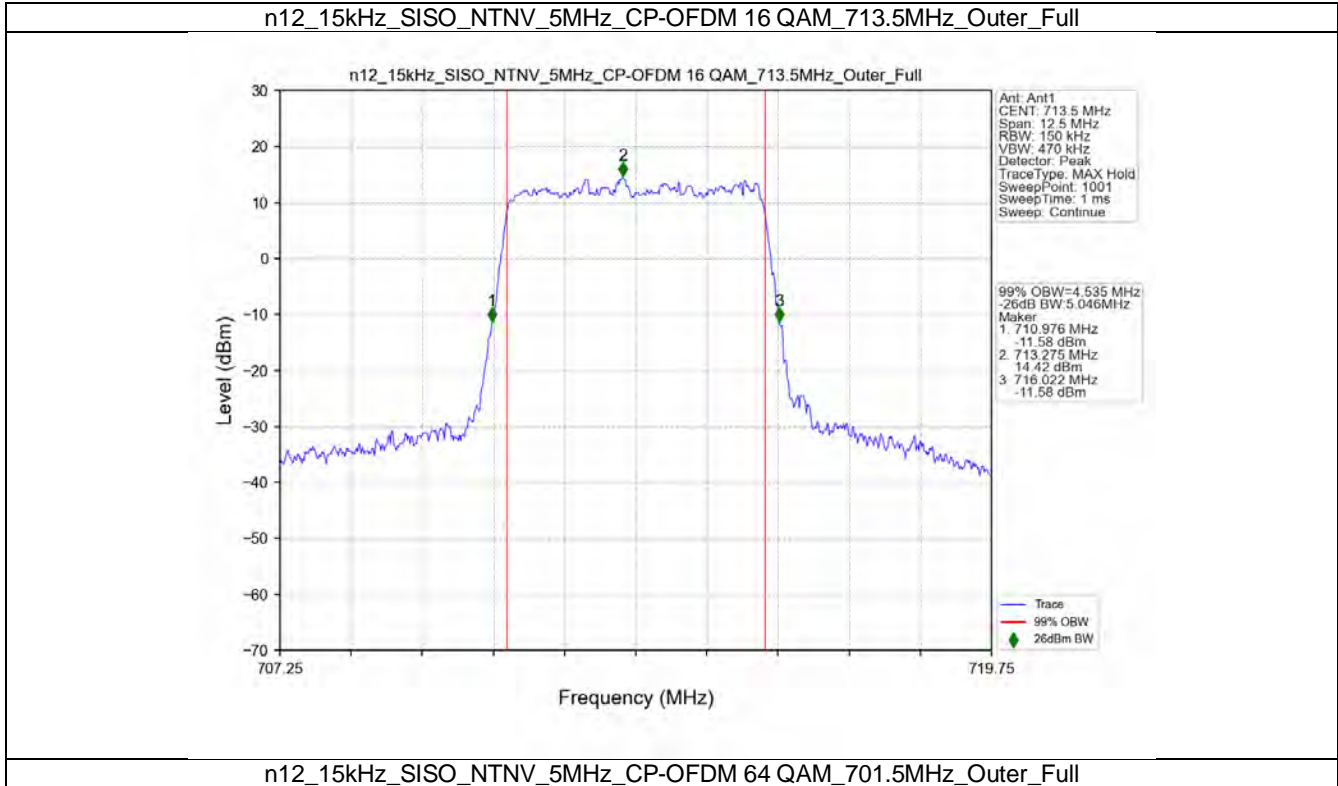


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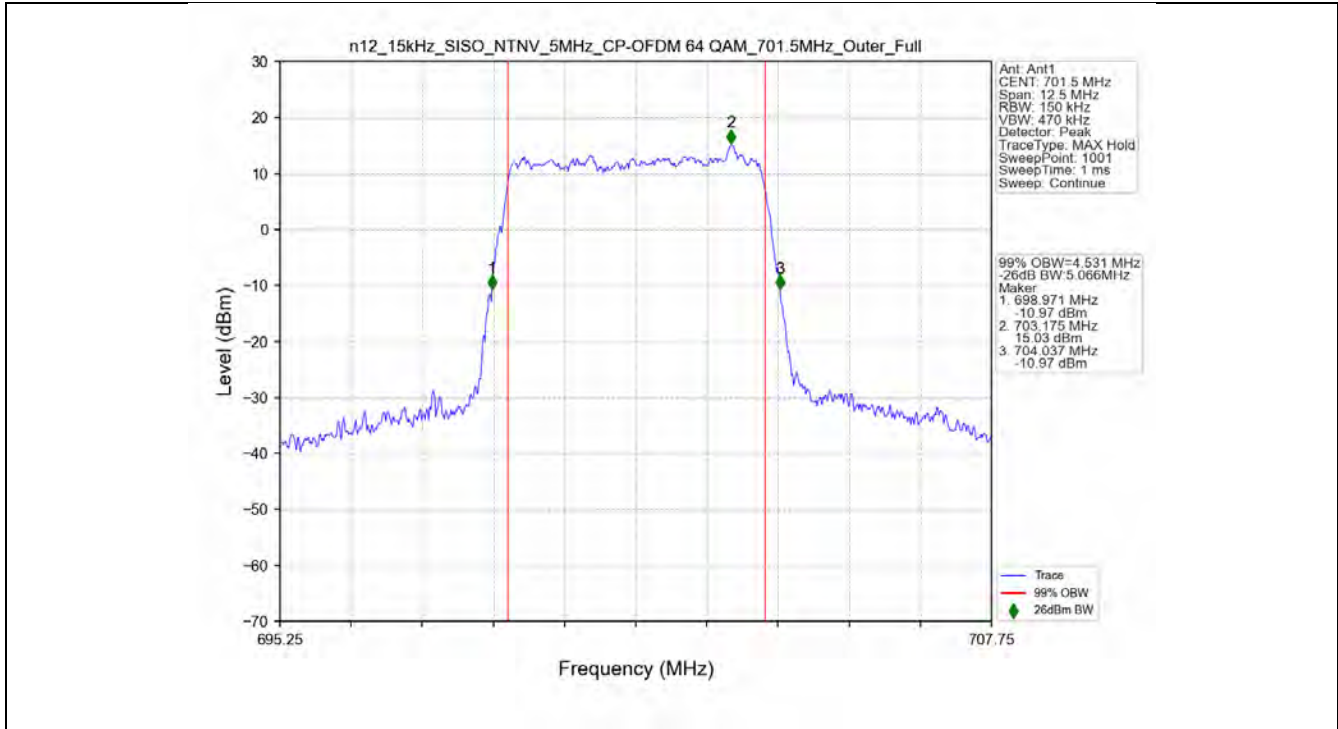


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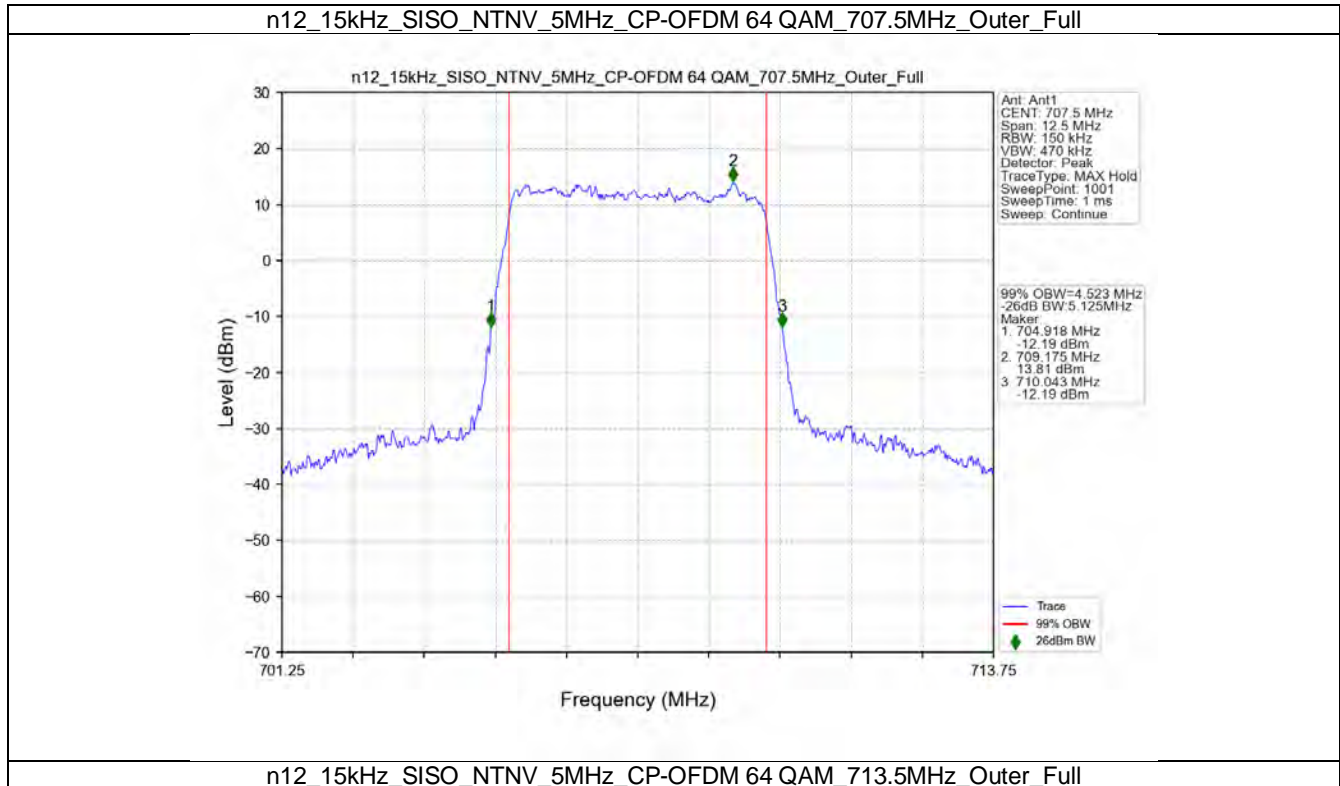


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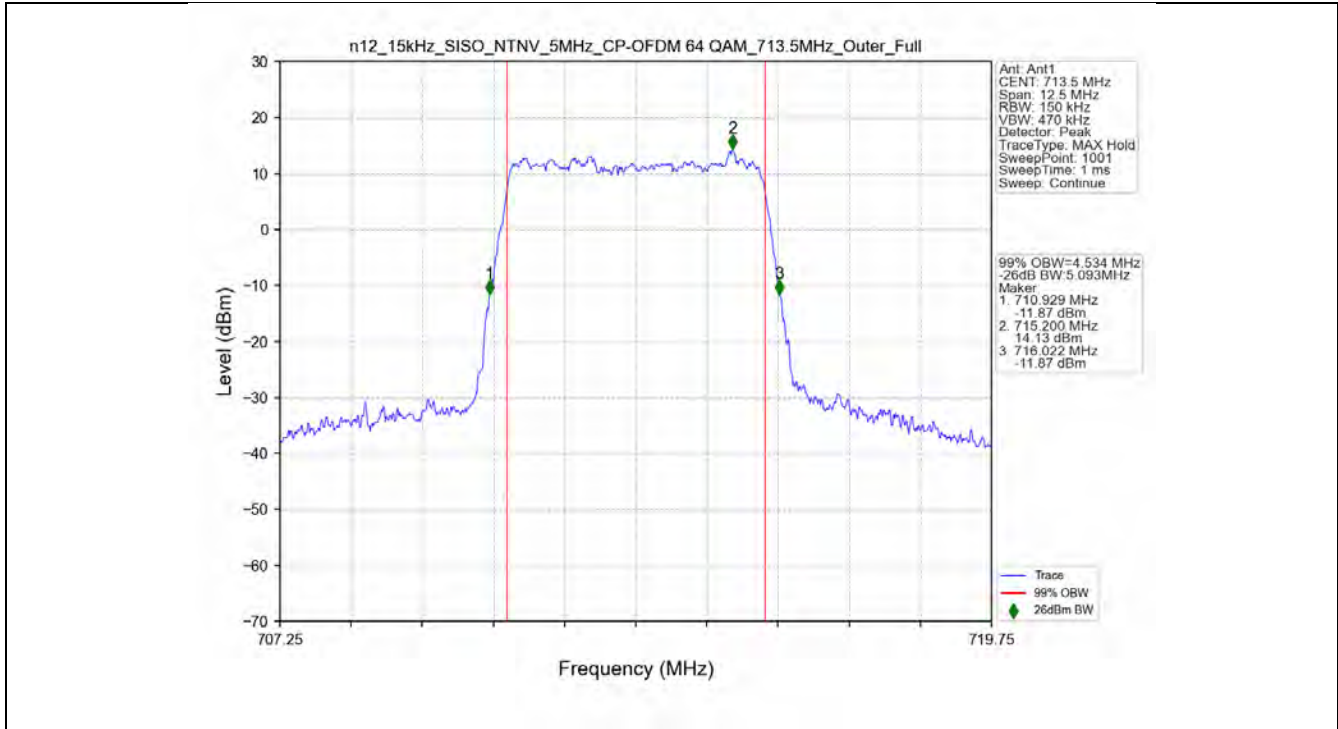


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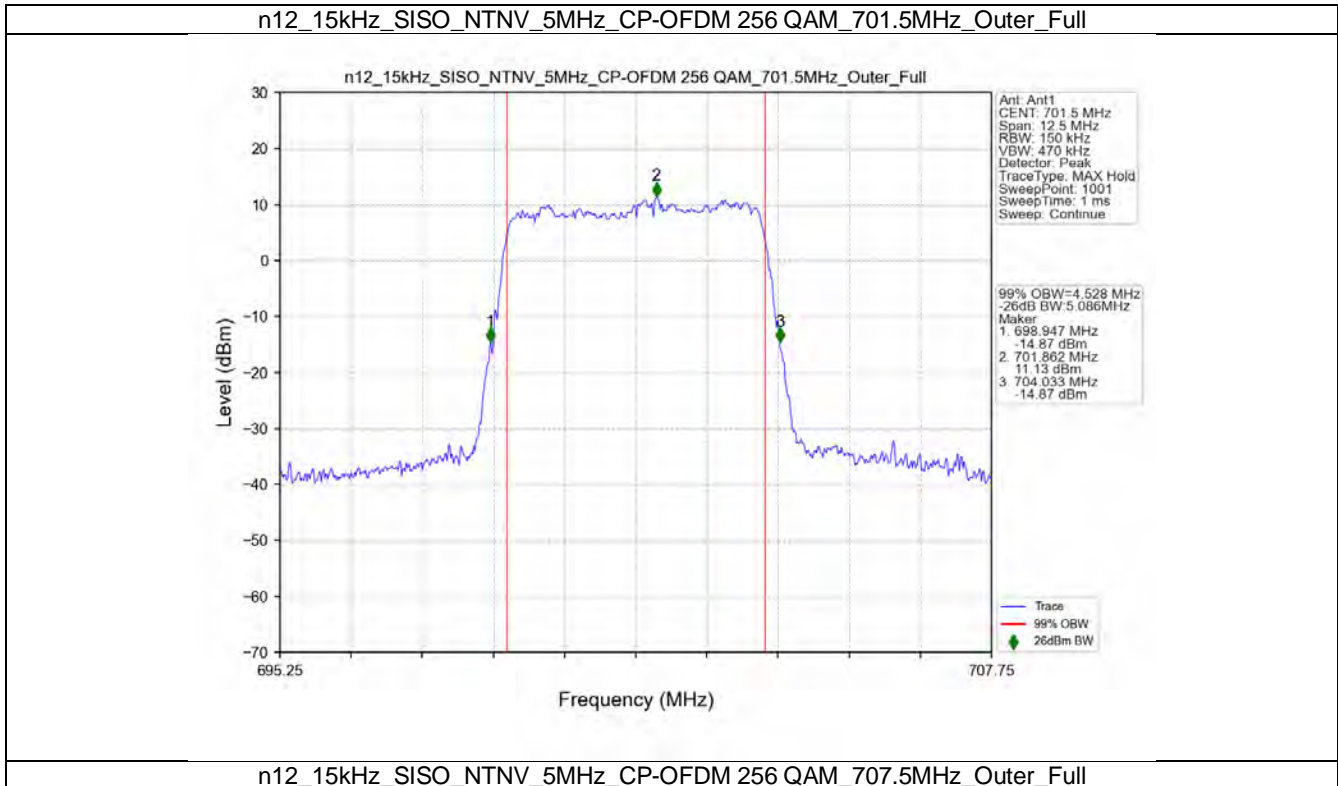


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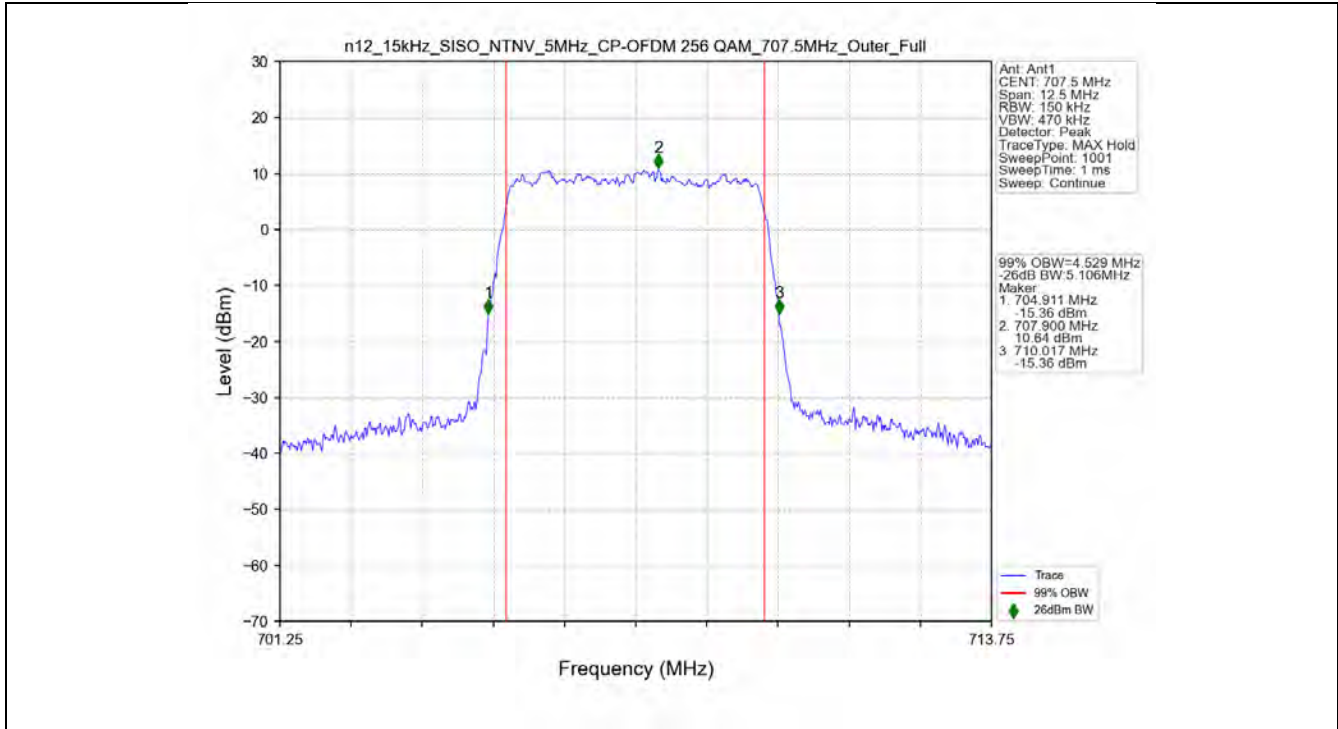


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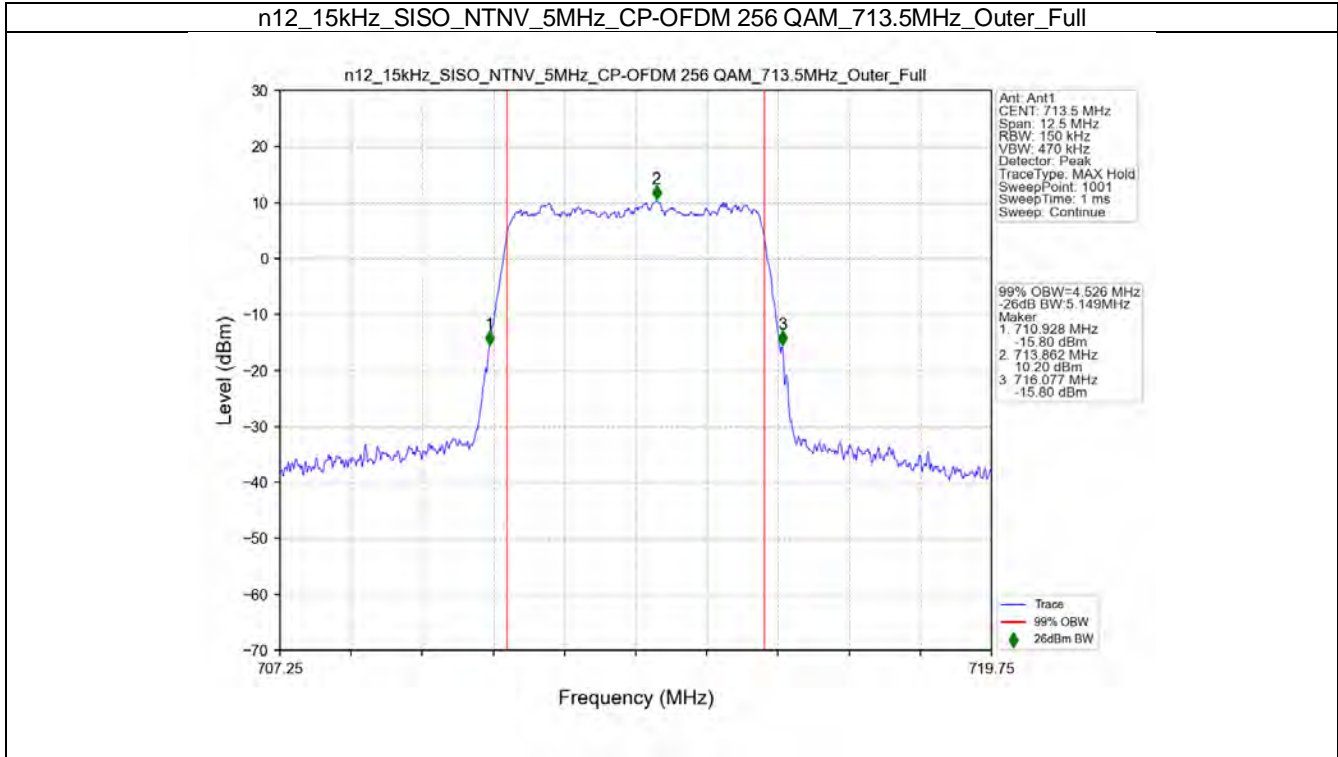


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3.2 15k_SISO_10MHz_NTNV

3.2.1 Test Result

5G NR n12 SCS=15kHz SISO 10MHz NNTV						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	704	Outer_Full	8.99	9.79	/	Pass
	707.5	Outer_Full	9.01	9.77	/	Pass
	711	Outer_Full	9.05	9.80	/	Pass
DFT-s-OFDM QPSK	704	Outer_Full	9.02	9.80	/	Pass
	707.5	Outer_Full	9.04	9.83	/	Pass
	711	Outer_Full	9.07	9.87	/	Pass
DFT-s-OFDM 16 QAM	704	Outer_Full	9.01	9.81	/	Pass
	707.5	Outer_Full	9.02	9.76	/	Pass
	711	Outer_Full	9.05	9.89	/	Pass
DFT-s-OFDM 64 QAM	704	Outer_Full	9.01	9.82	/	Pass
	707.5	Outer_Full	9.01	9.86	/	Pass
	711	Outer_Full	9.04	9.90	/	Pass
DFT-s-OFDM 256 QAM	704	Outer_Full	9.01	9.88	/	Pass
	707.5	Outer_Full	9.02	9.82	/	Pass
	711	Outer_Full	9.05	9.85	/	Pass
CP-OFDM QPSK	704	Outer_Full	9.32	10.23	/	Pass
	707.5	Outer_Full	9.33	10.18	/	Pass
	711	Outer_Full	9.36	10.23	/	Pass
CP-OFDM 16 QAM	704	Outer_Full	9.32	10.22	/	Pass
	707.5	Outer_Full	9.35	10.14	/	Pass
	711	Outer_Full	9.37	10.22	/	Pass
CP-OFDM 64 QAM	704	Outer_Full	9.29	10.13	/	Pass
	707.5	Outer_Full	9.31	10.12	/	Pass
	711	Outer_Full	9.35	10.12	/	Pass
CP-OFDM 256 QAM	704	Outer_Full	9.34	10.20	/	Pass
	707.5	Outer_Full	9.37	10.20	/	Pass
	711	Outer_Full	9.40	10.26	/	Pass



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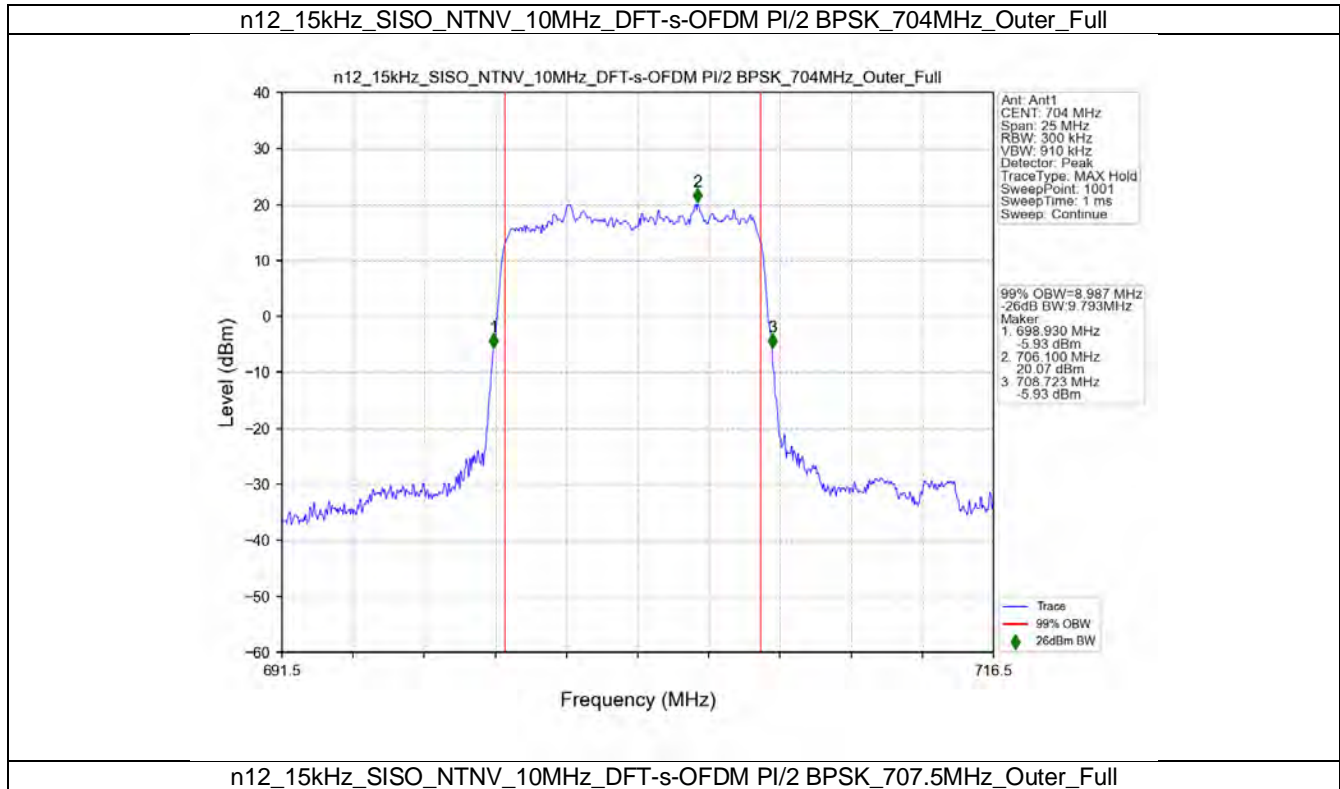
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3.2.2 Test Graph



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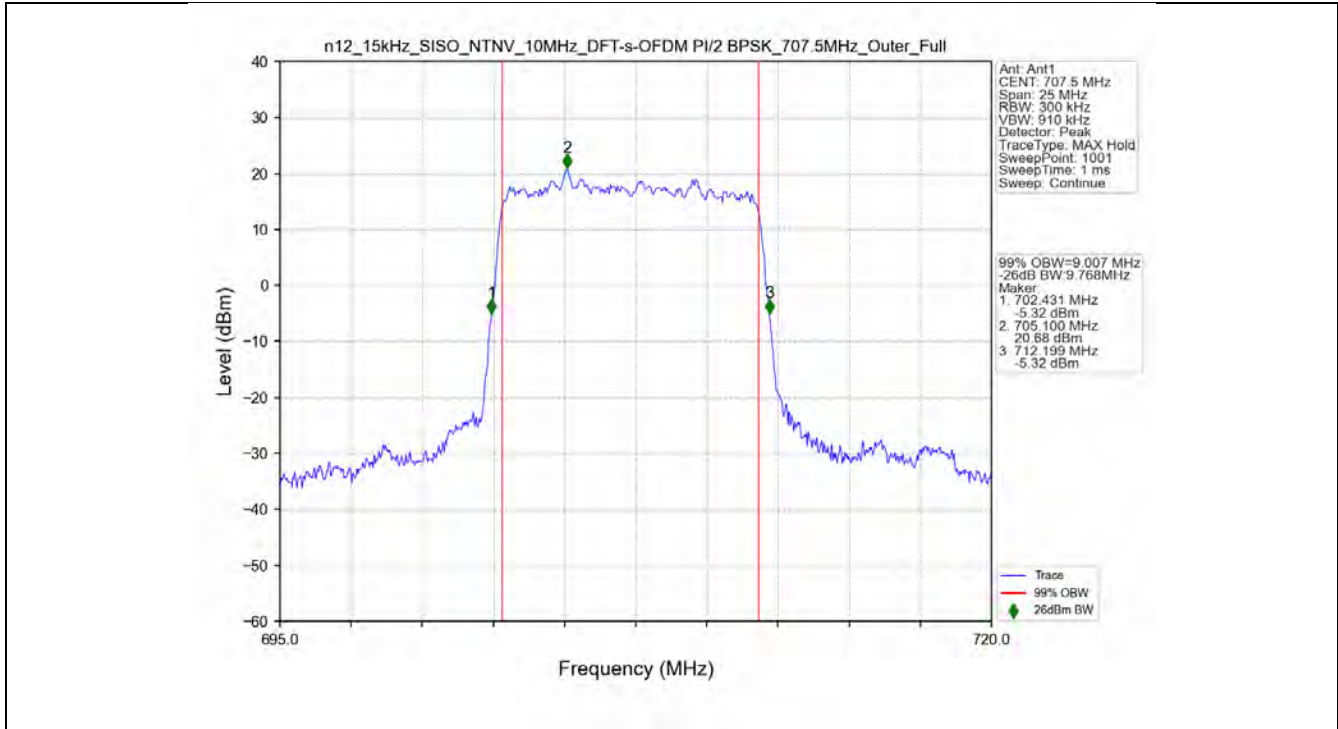


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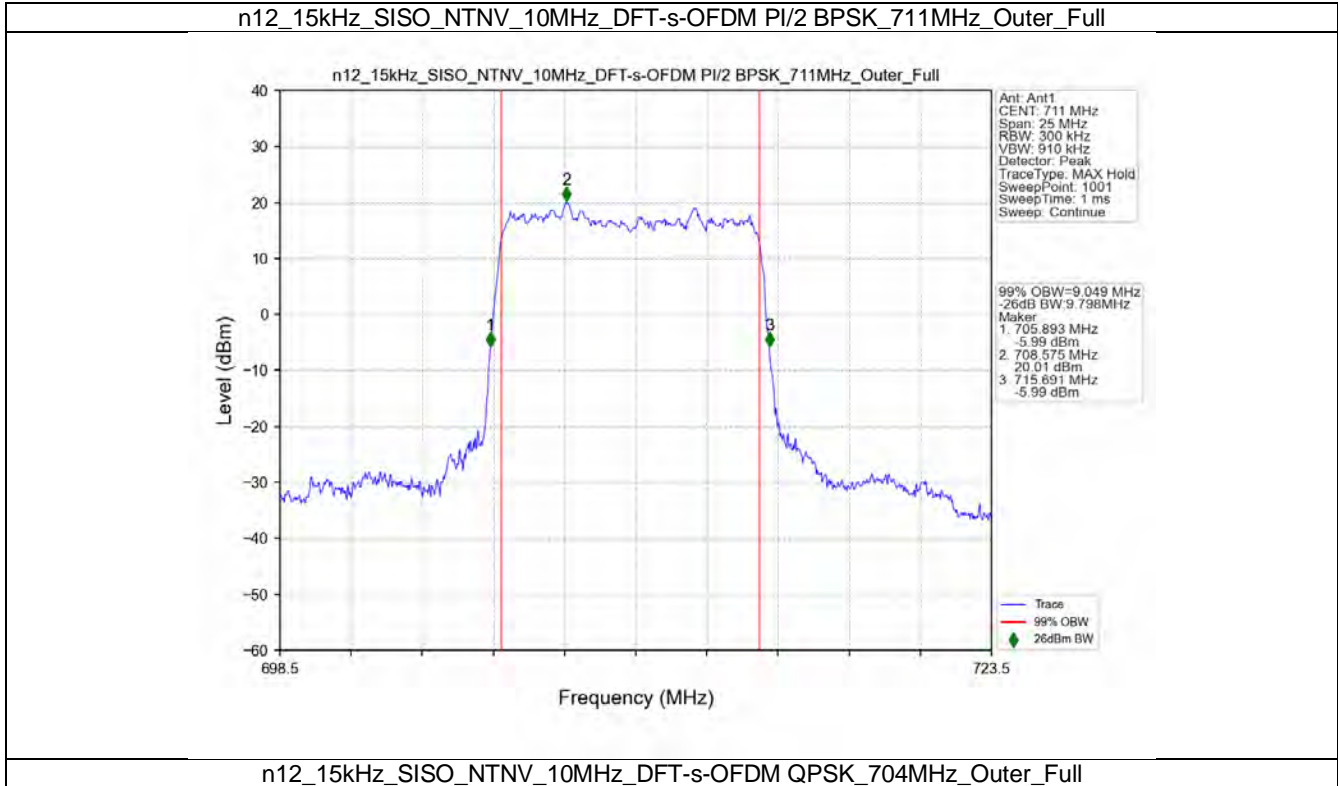


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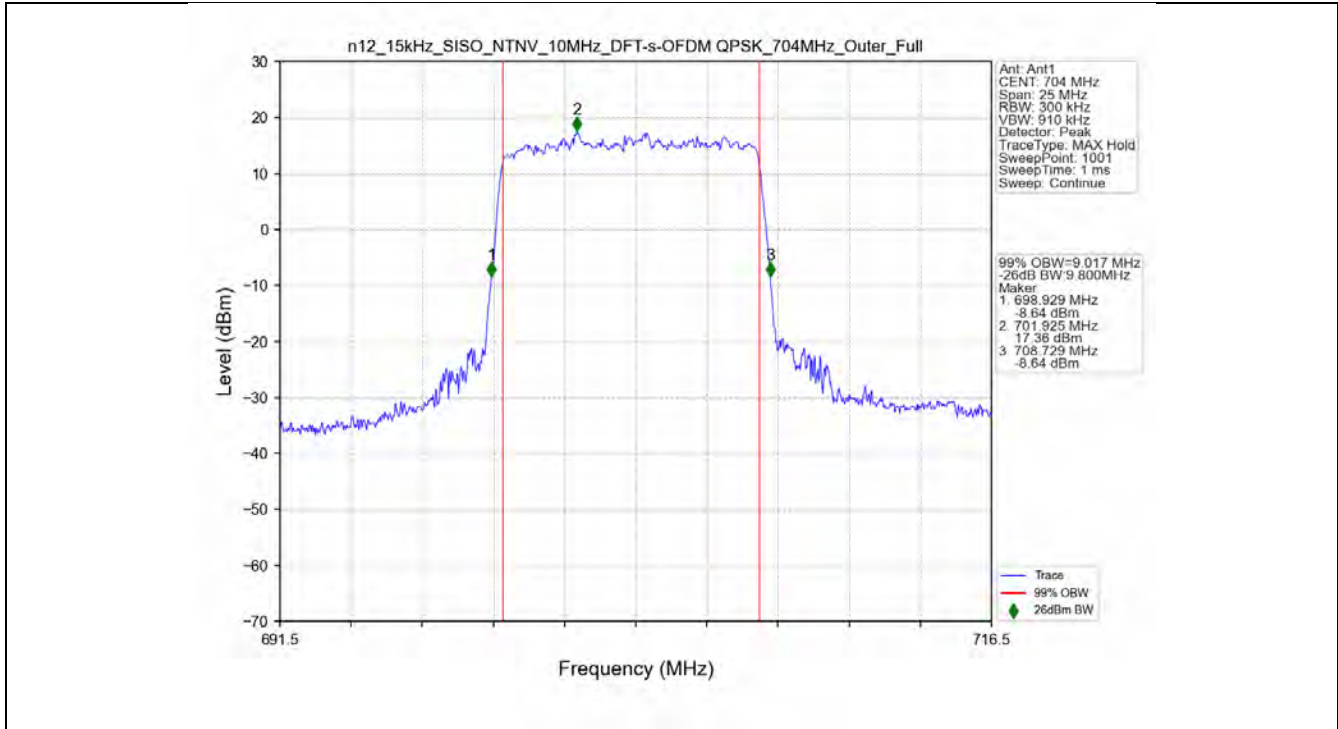


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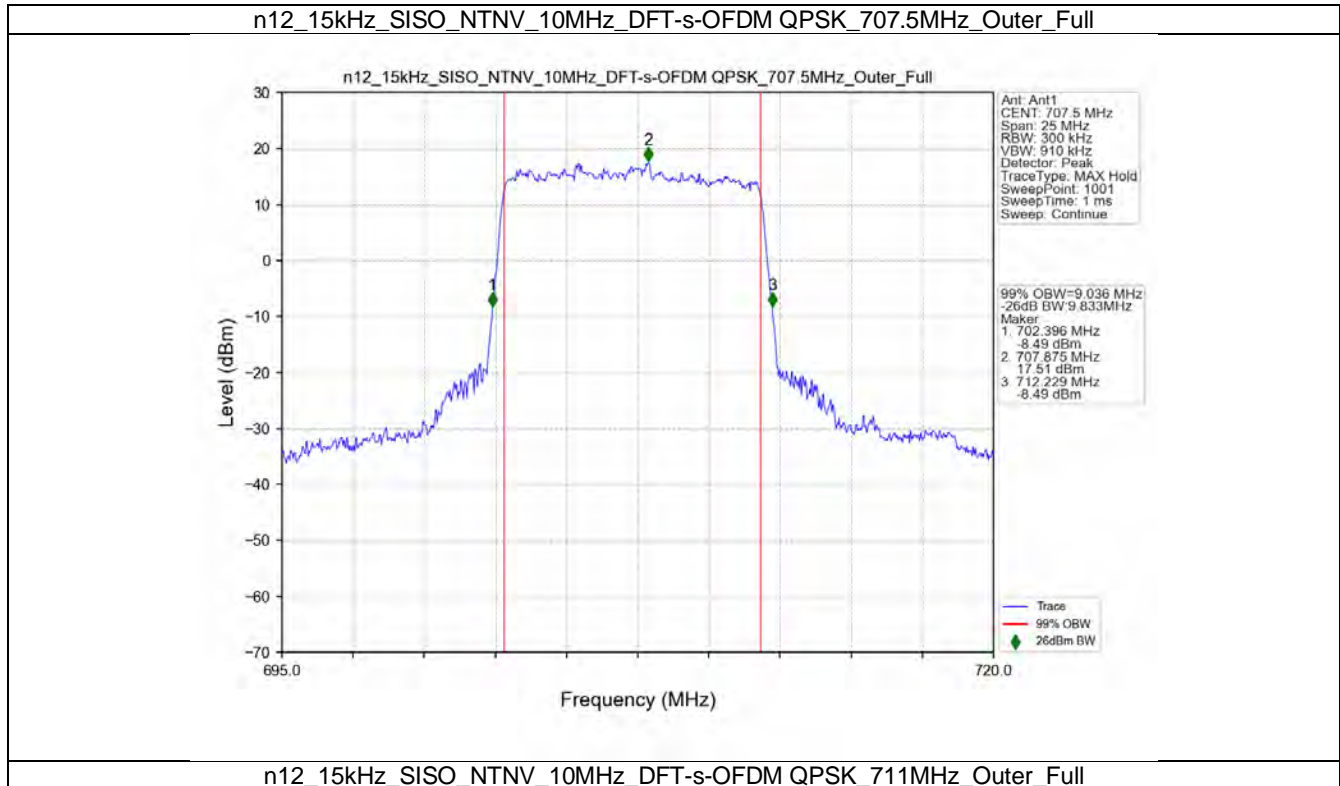


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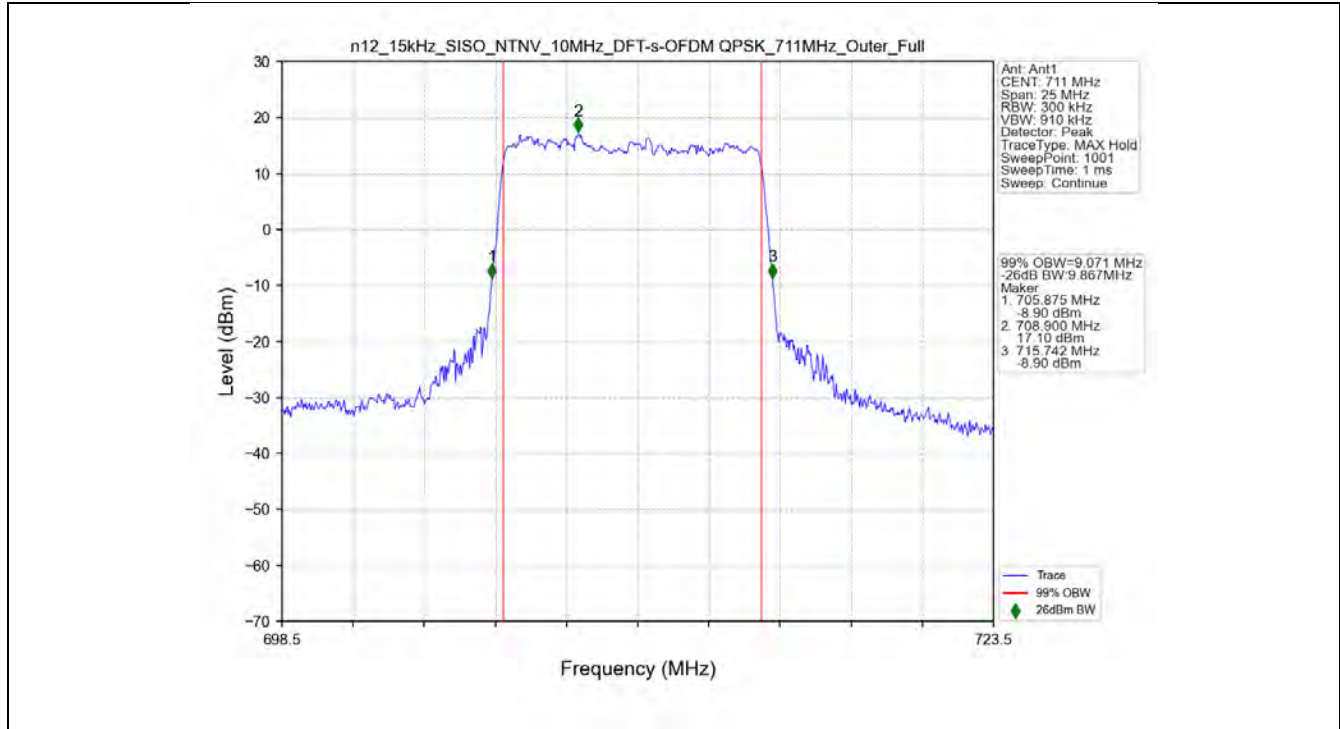


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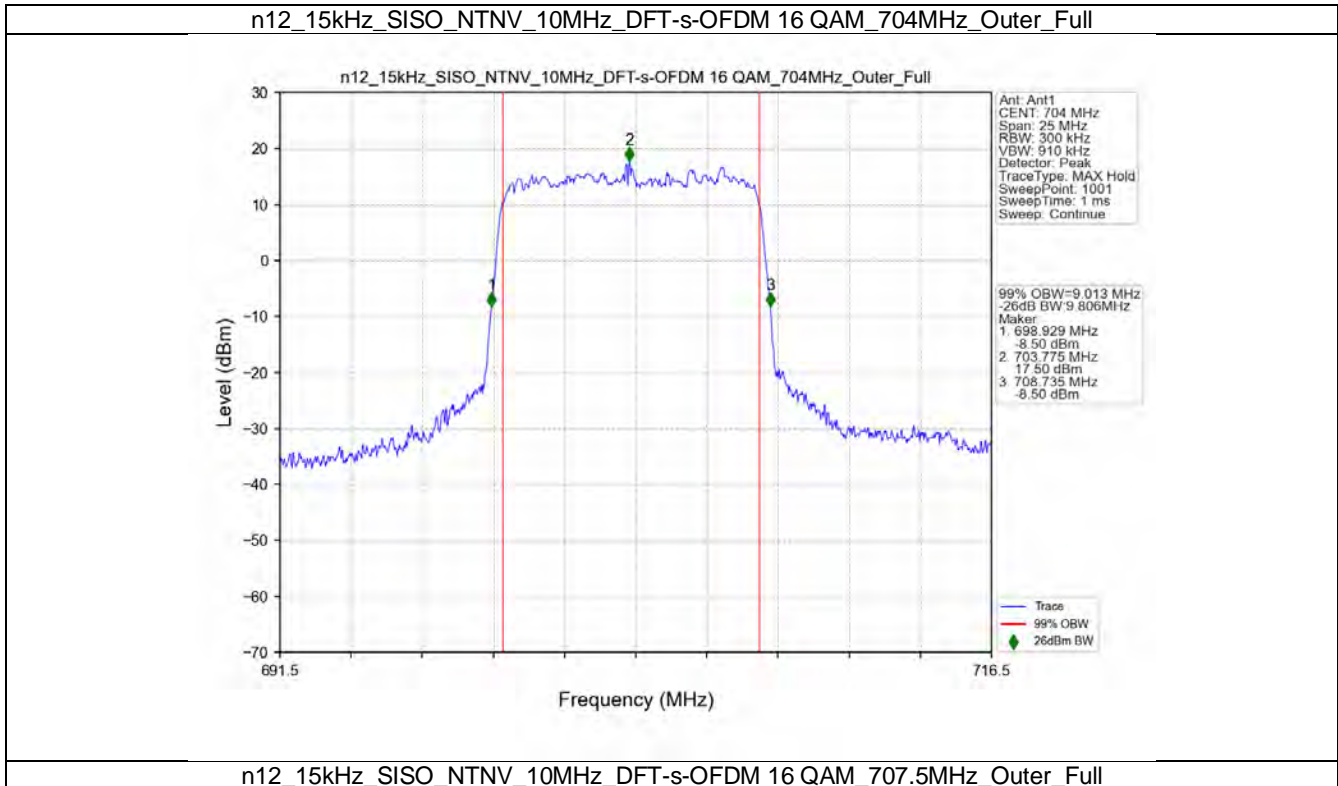


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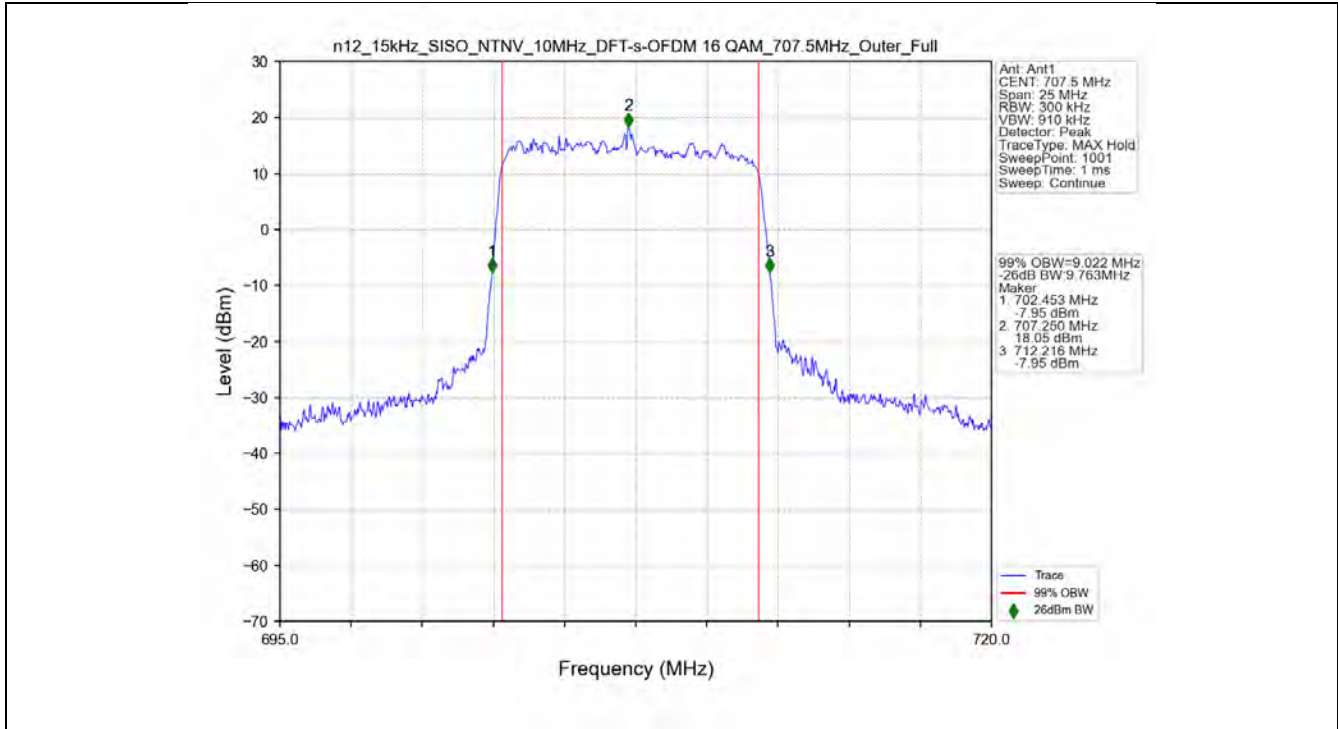


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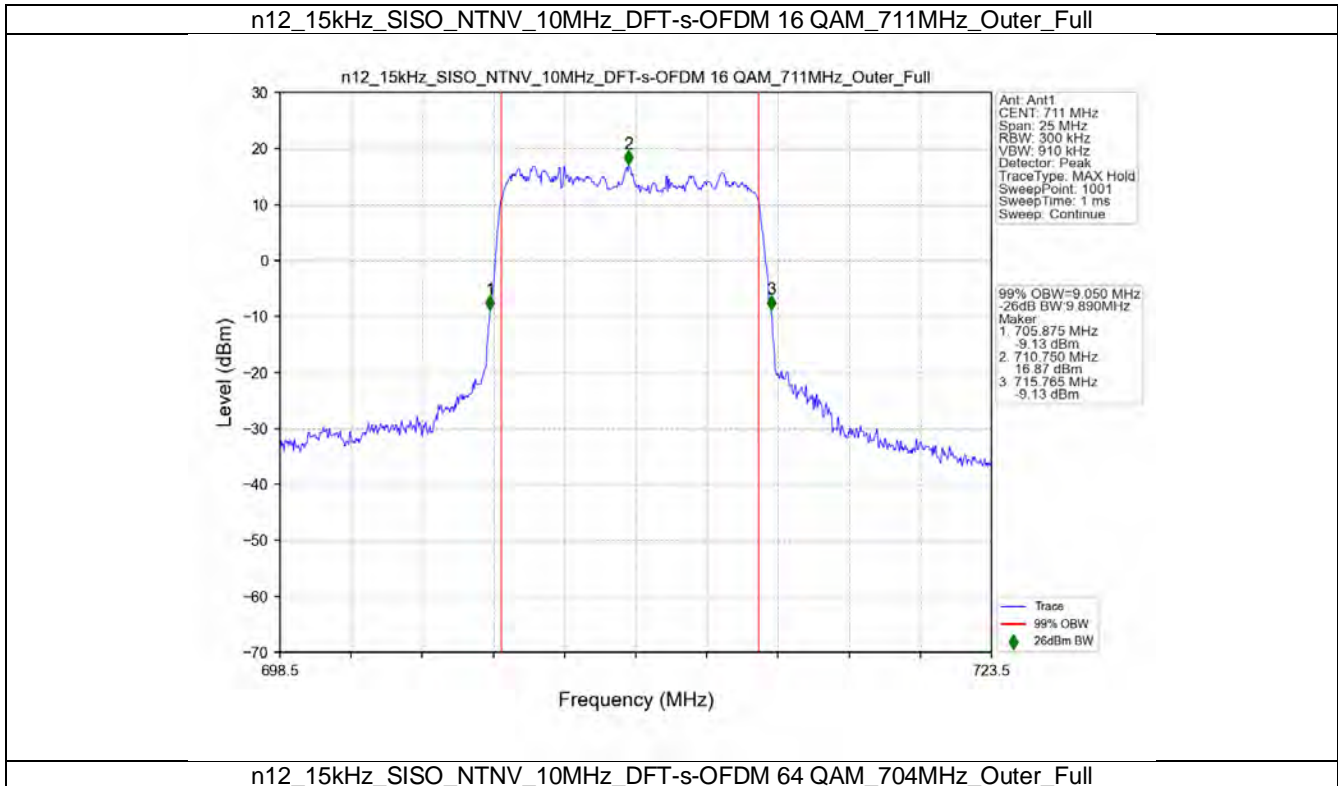


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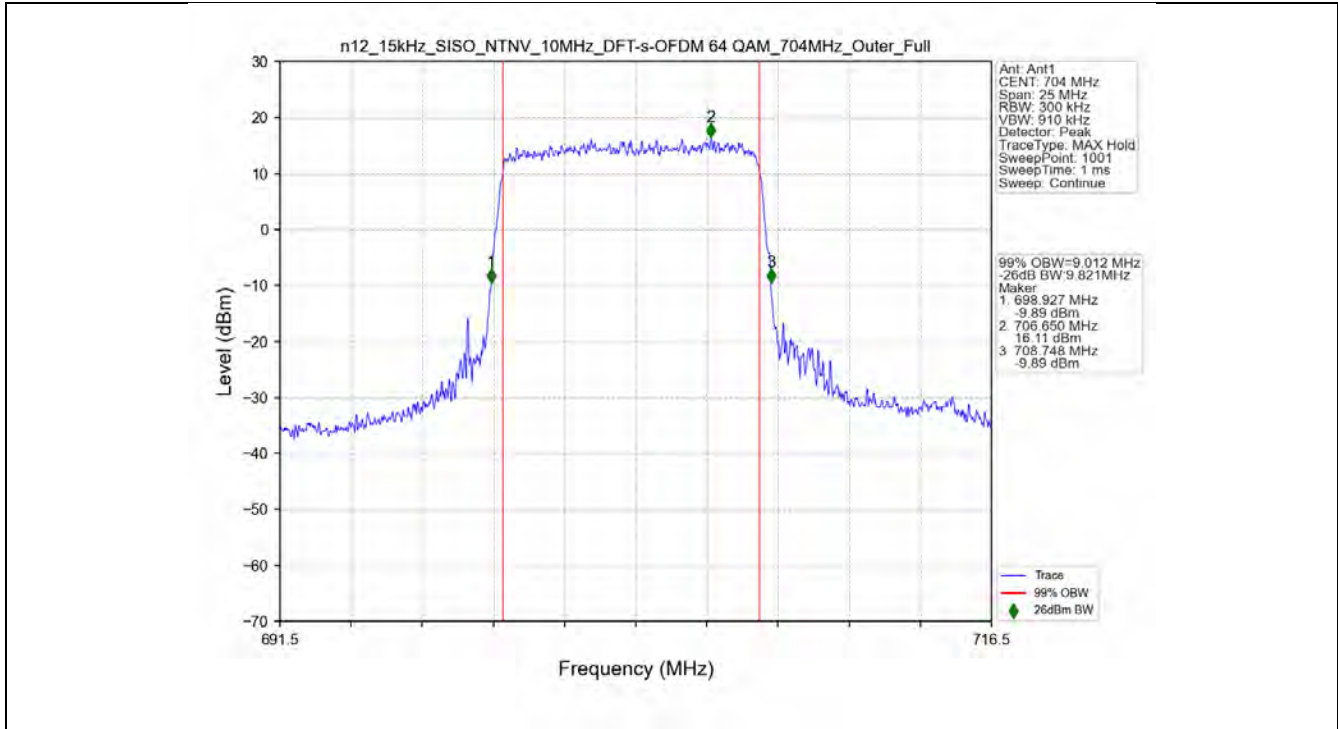


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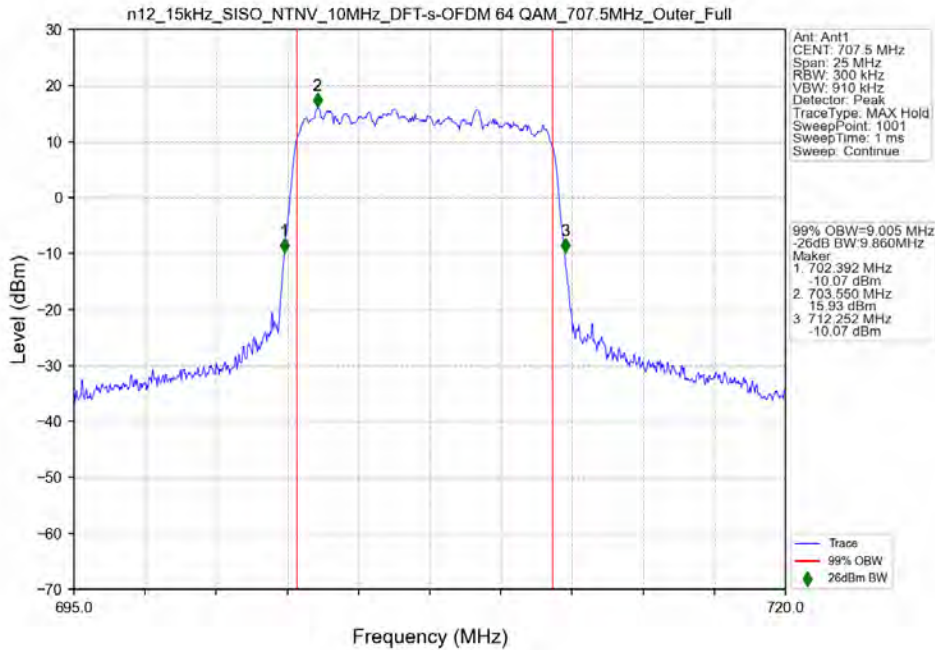
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n12_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 64 QAM_711MHz_Outer_Full



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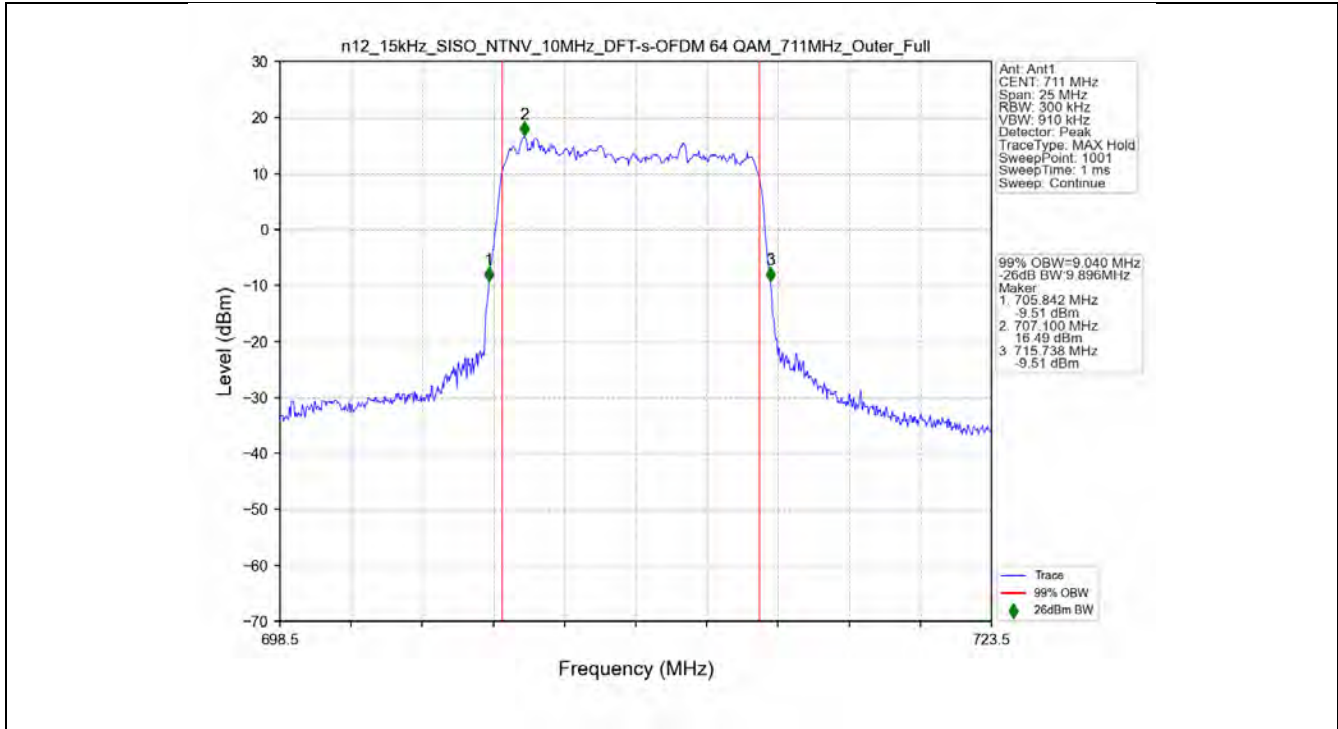


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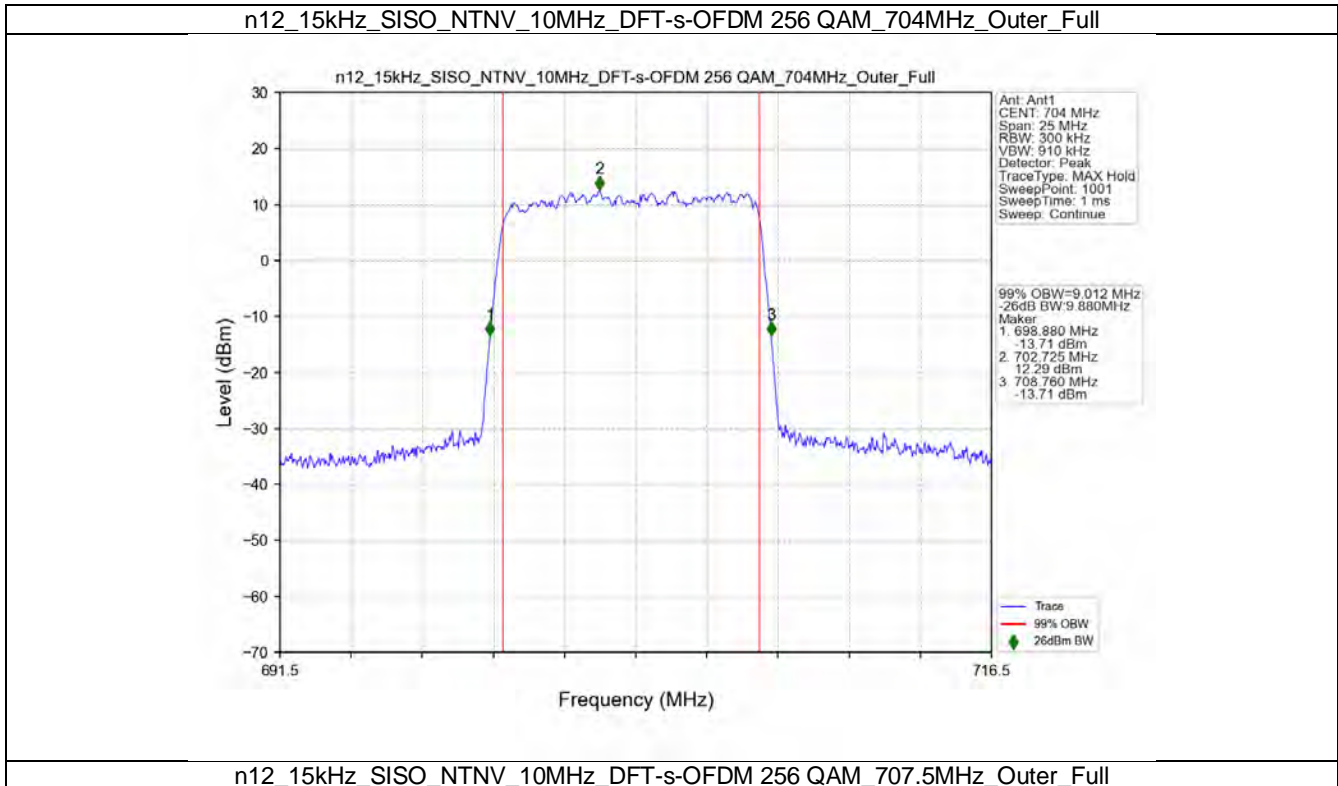


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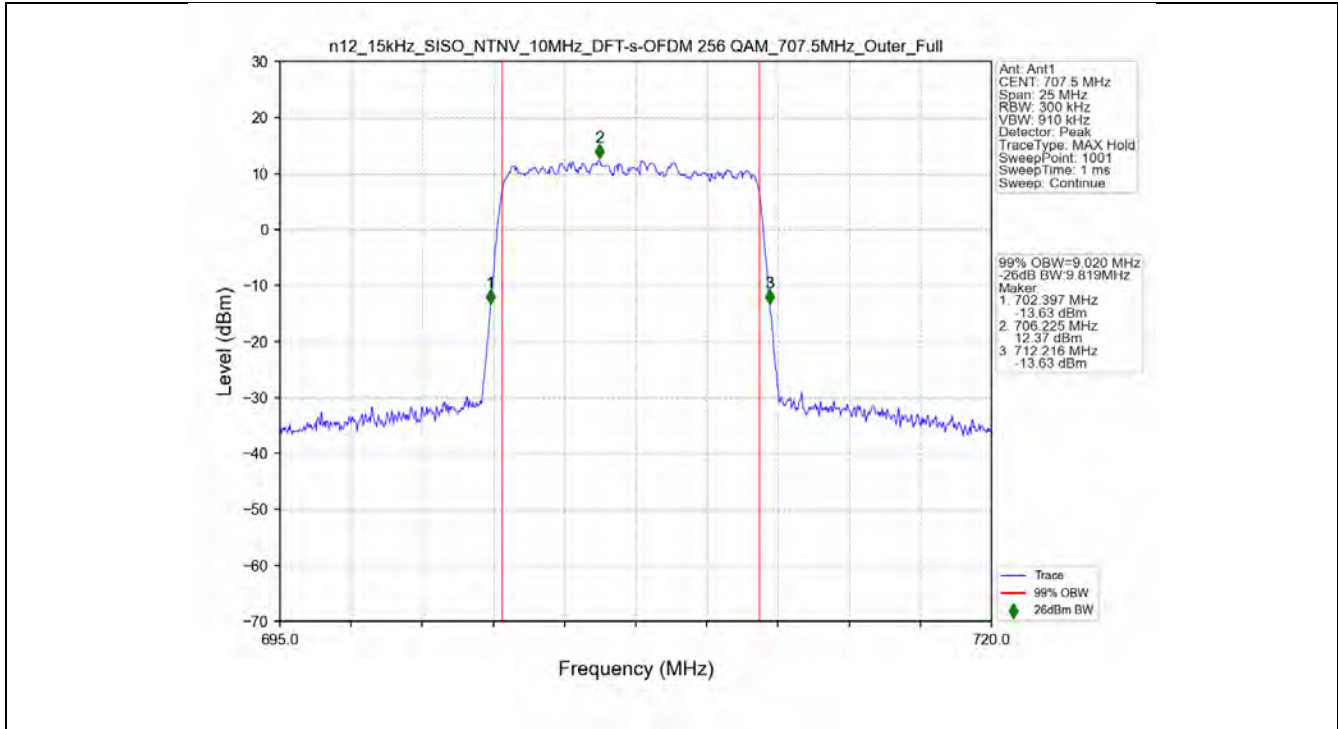


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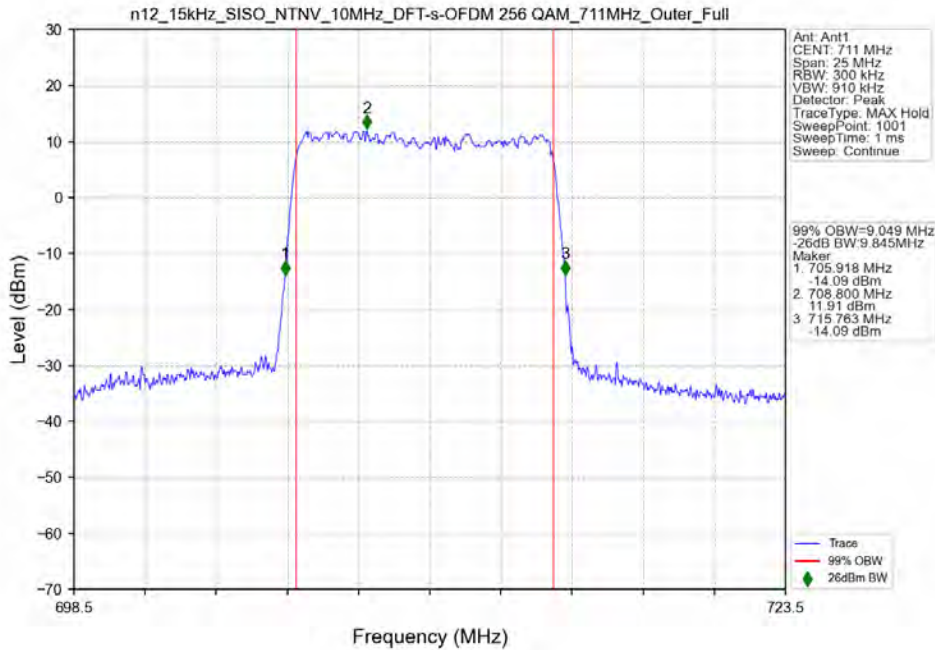
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n12_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 256 QAM_711MHz_Outer_Full



n12_15kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_704MHz_Outer_Full



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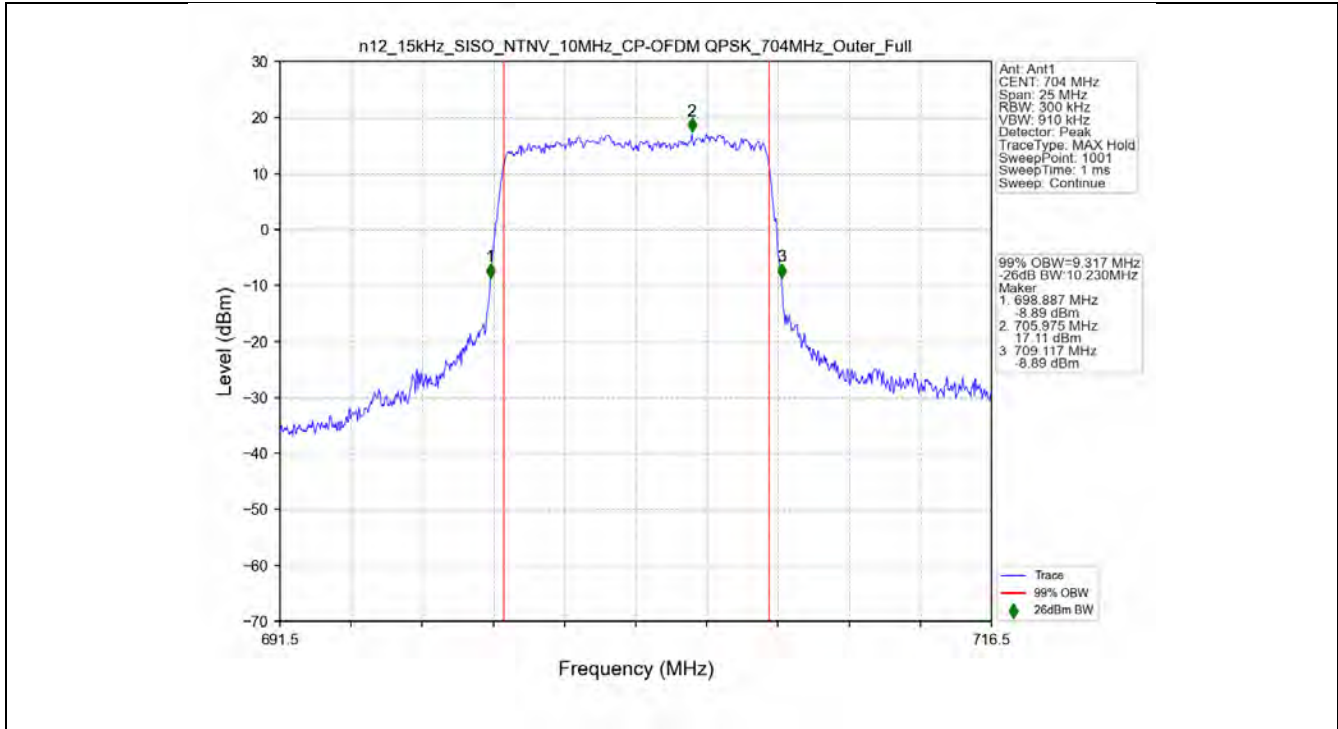


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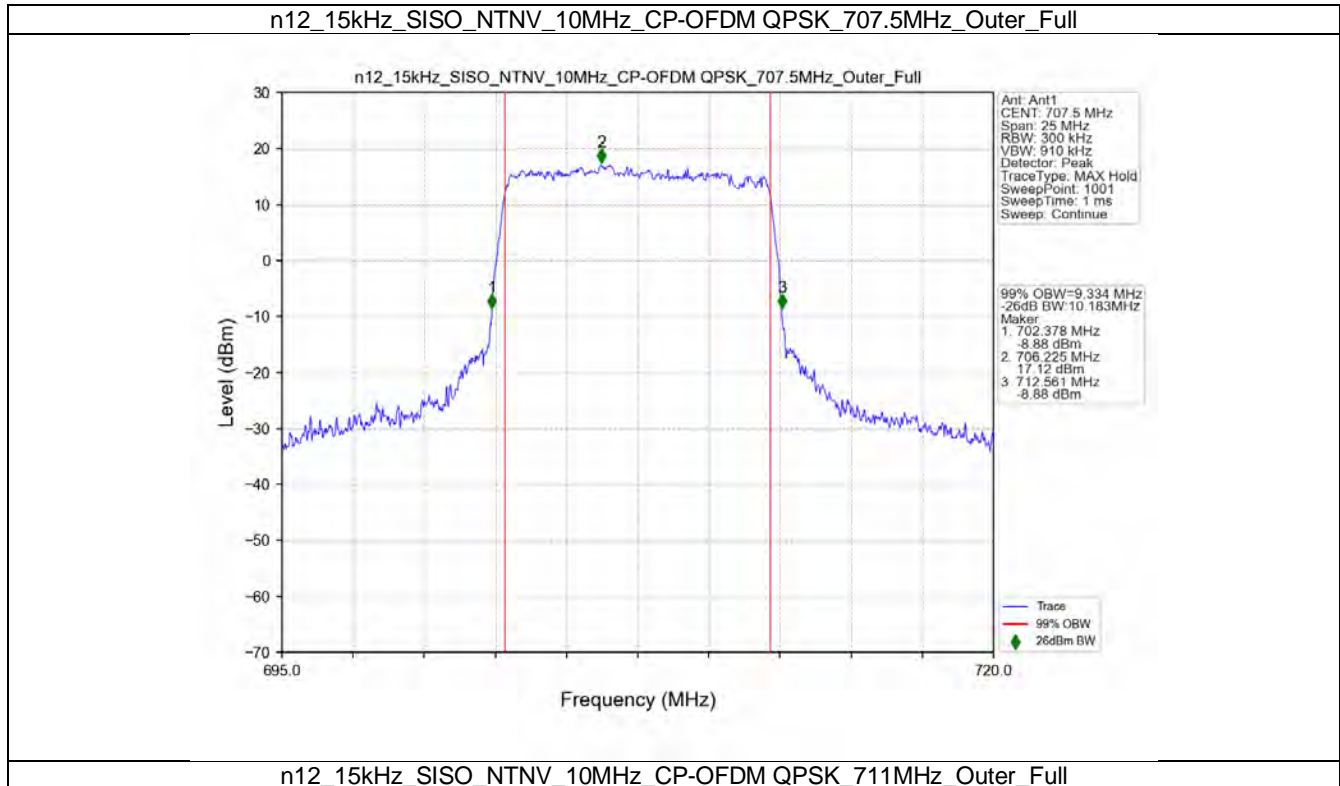


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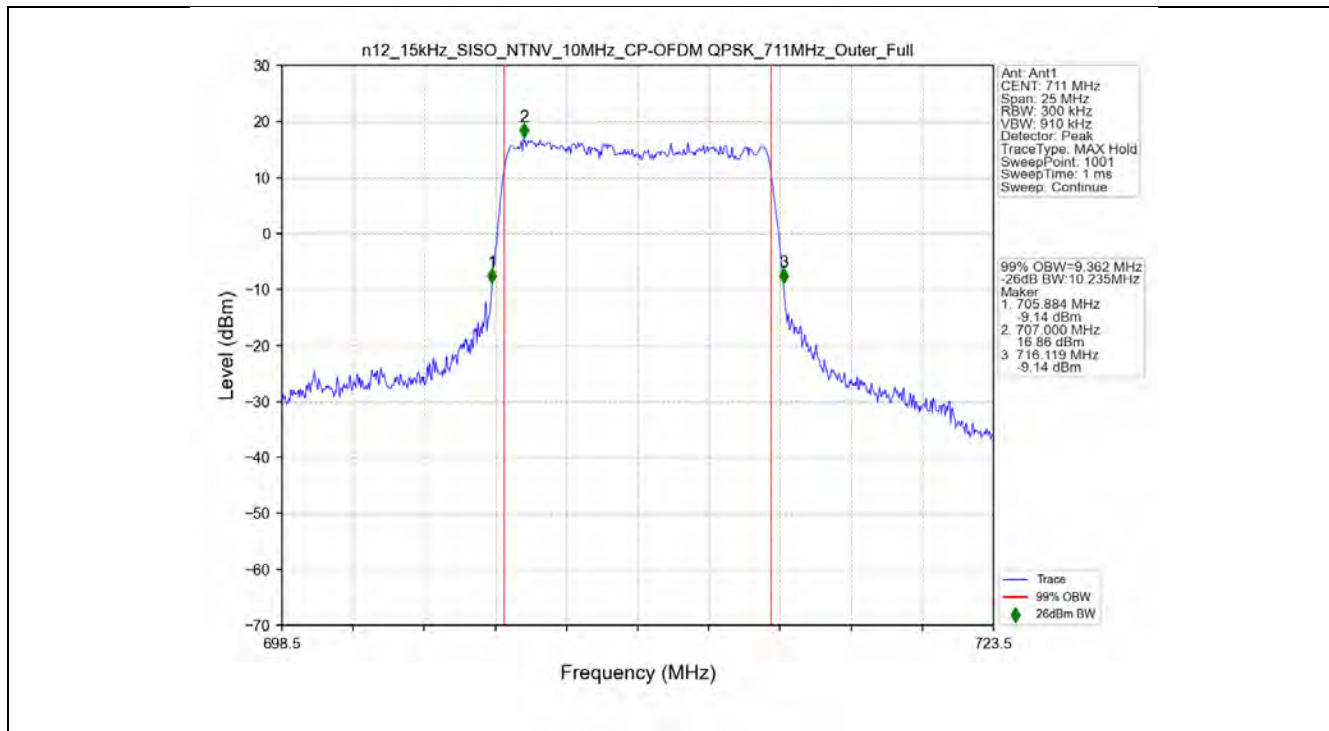
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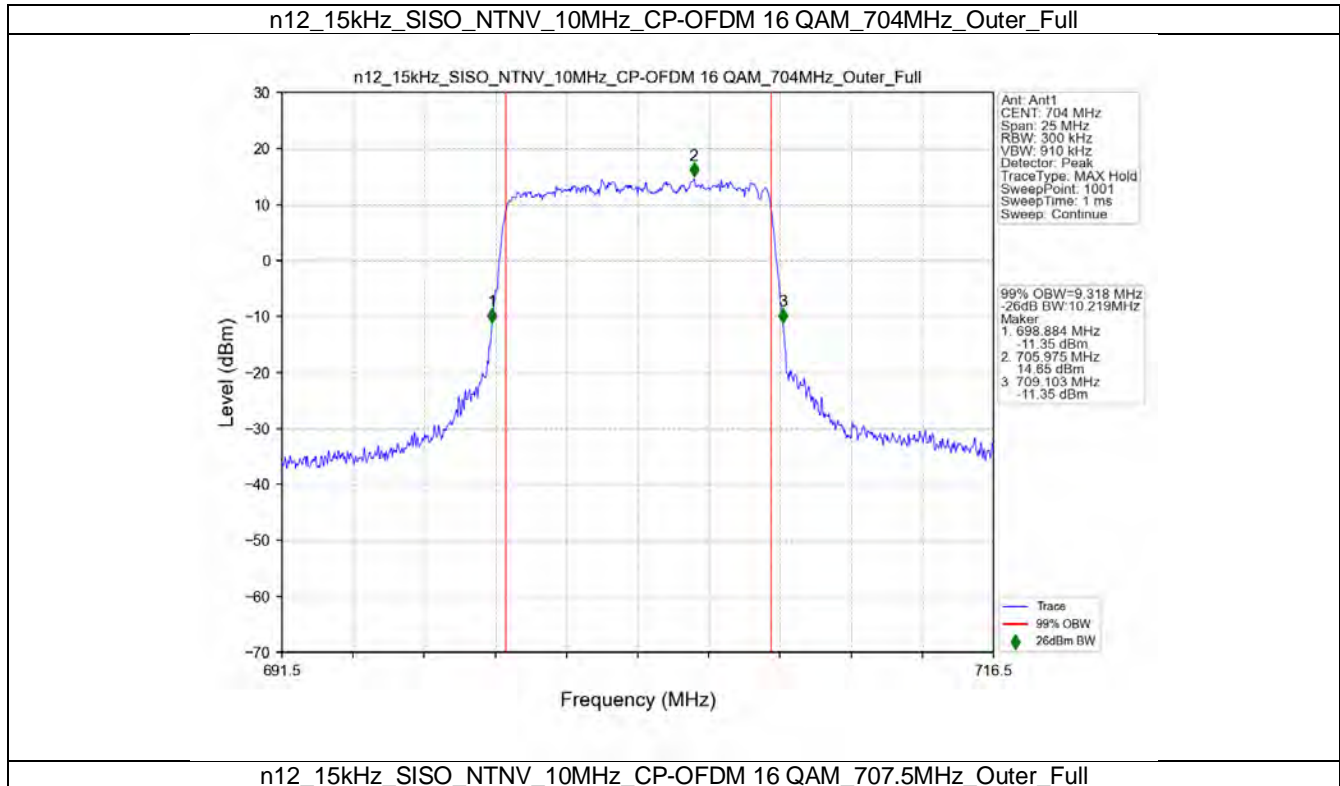


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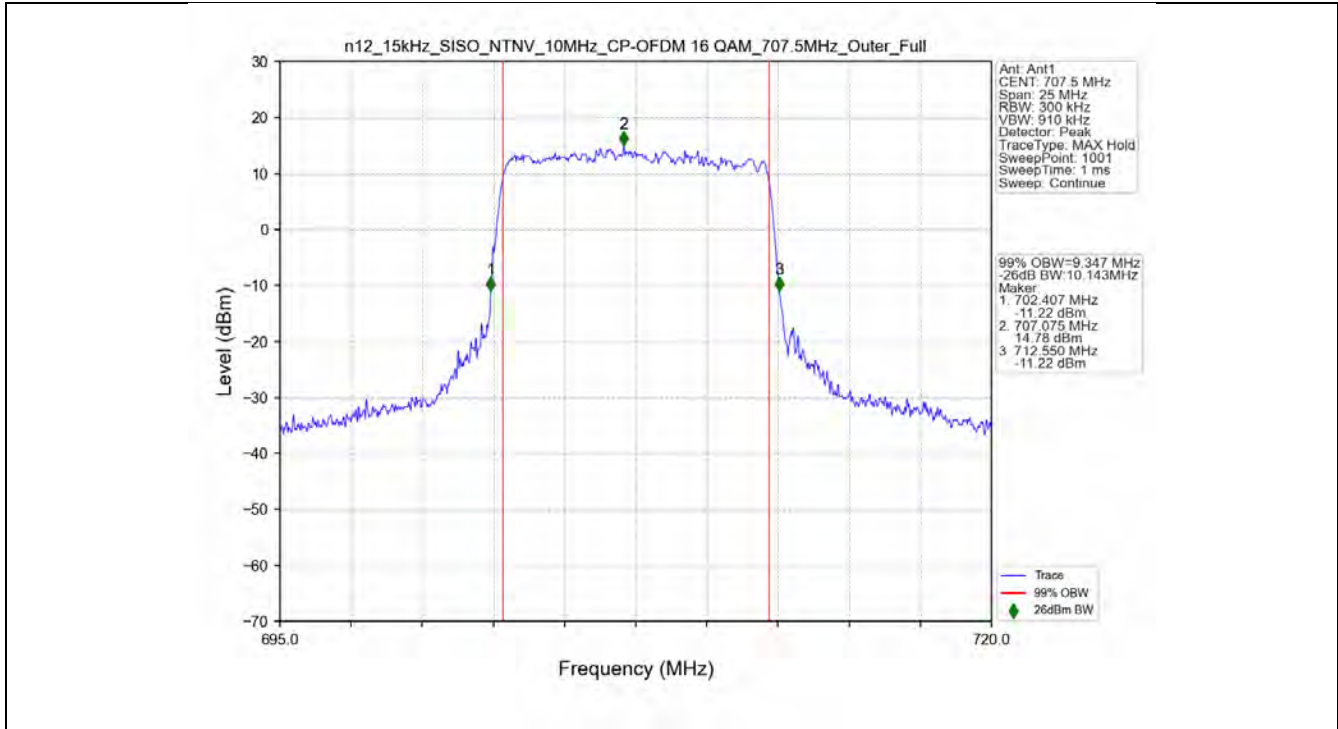


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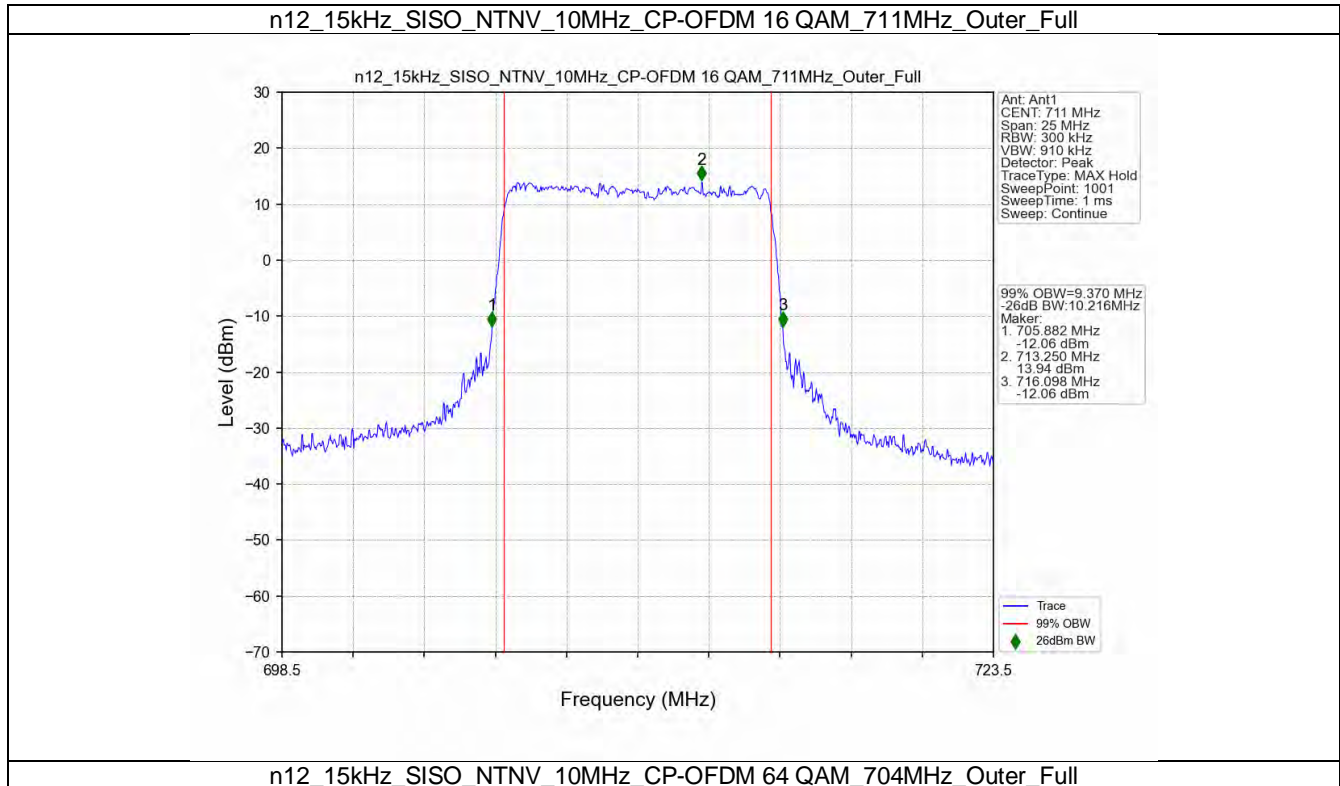


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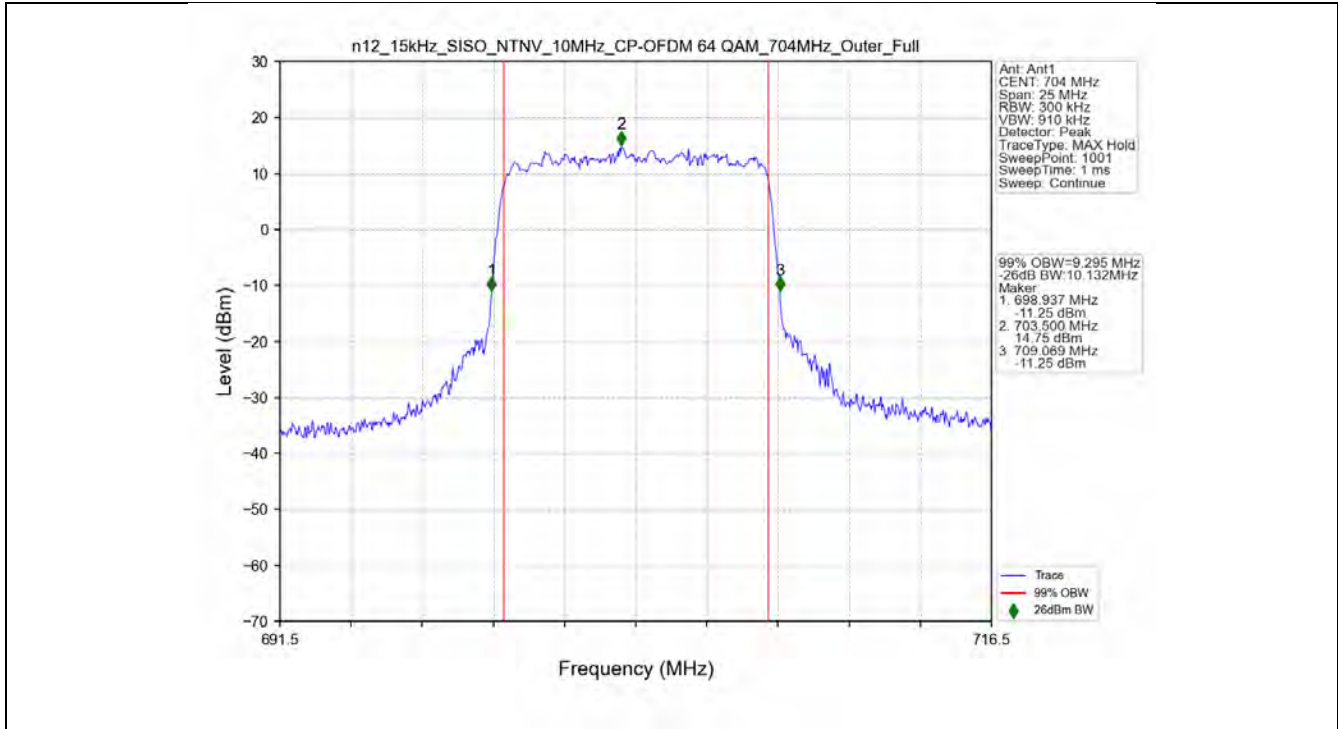


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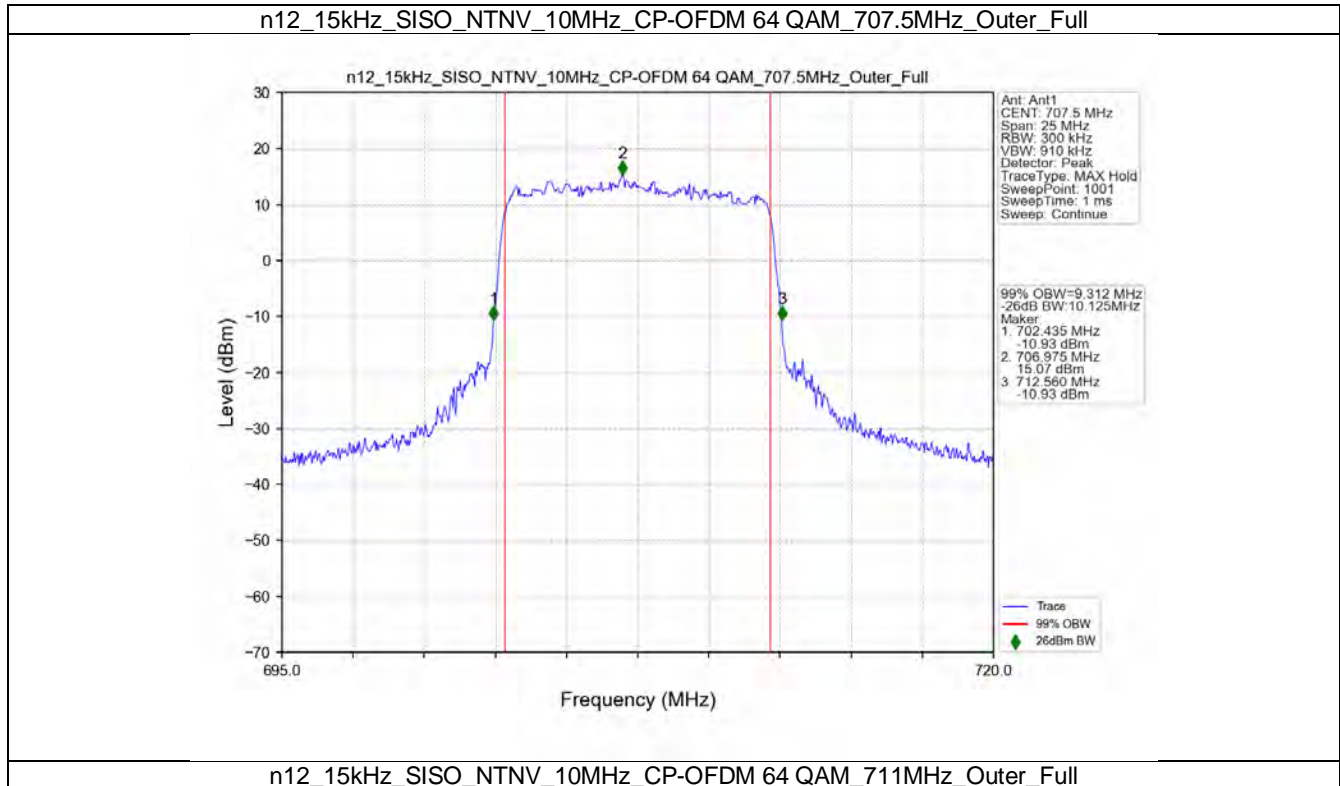


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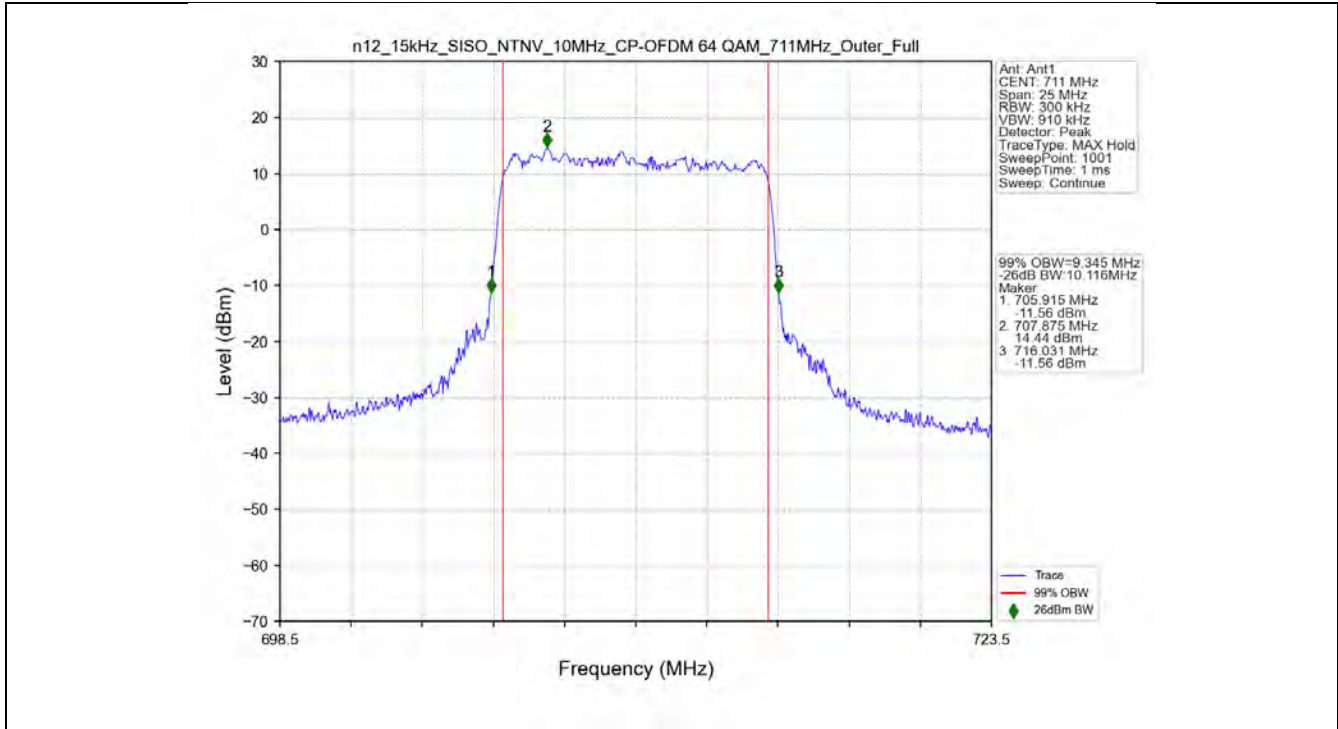


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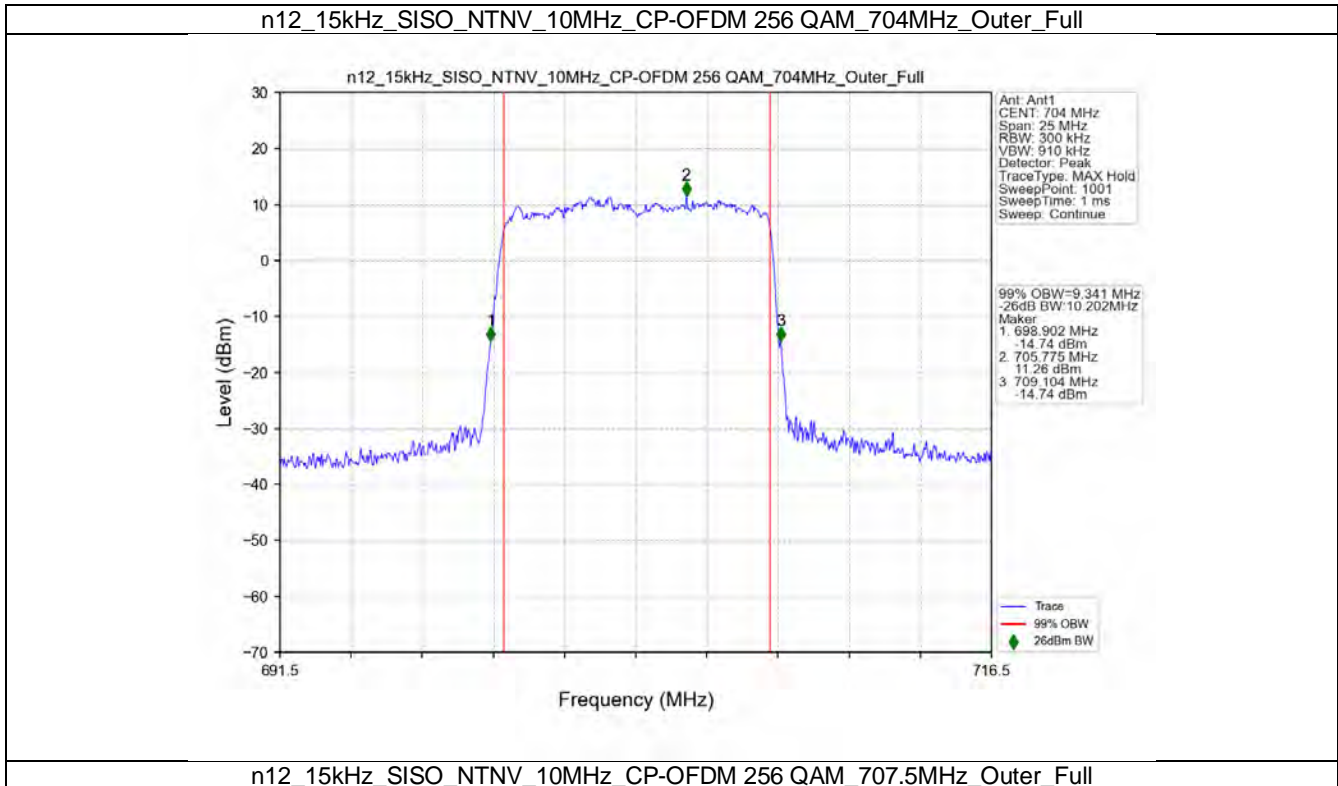


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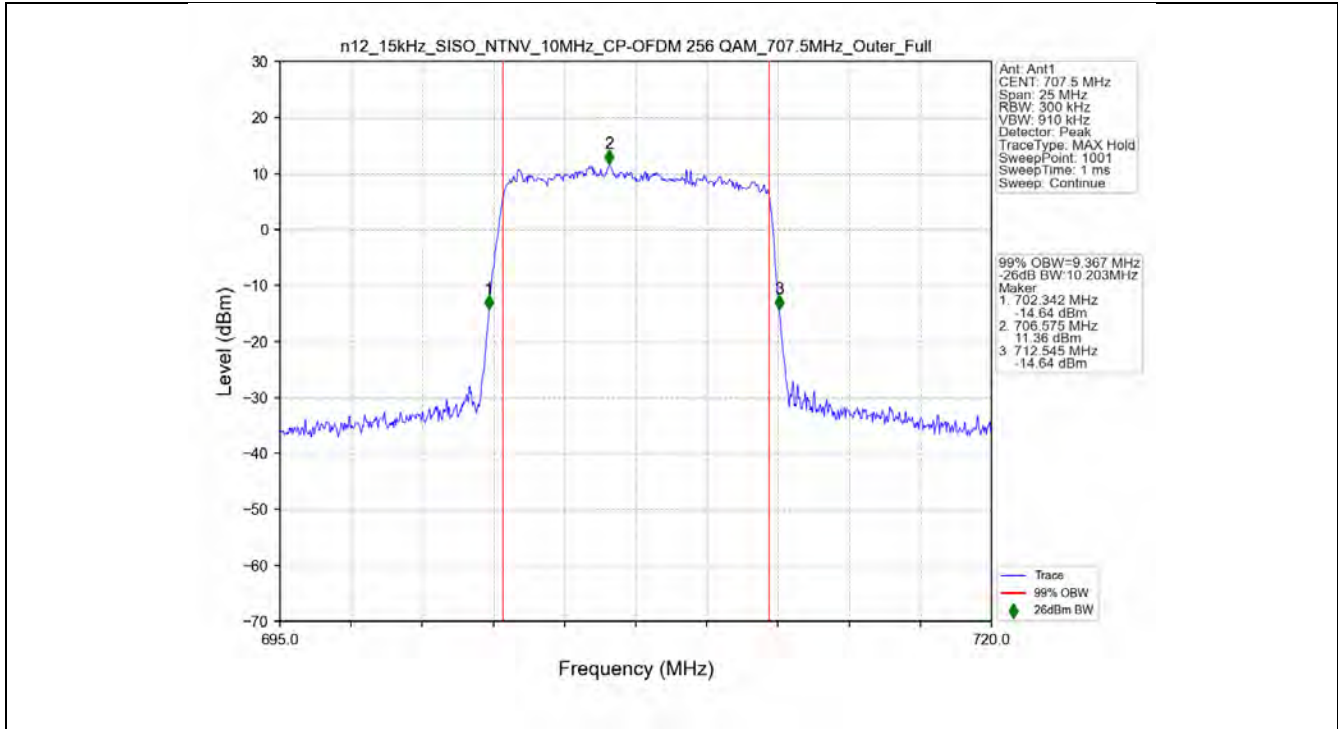


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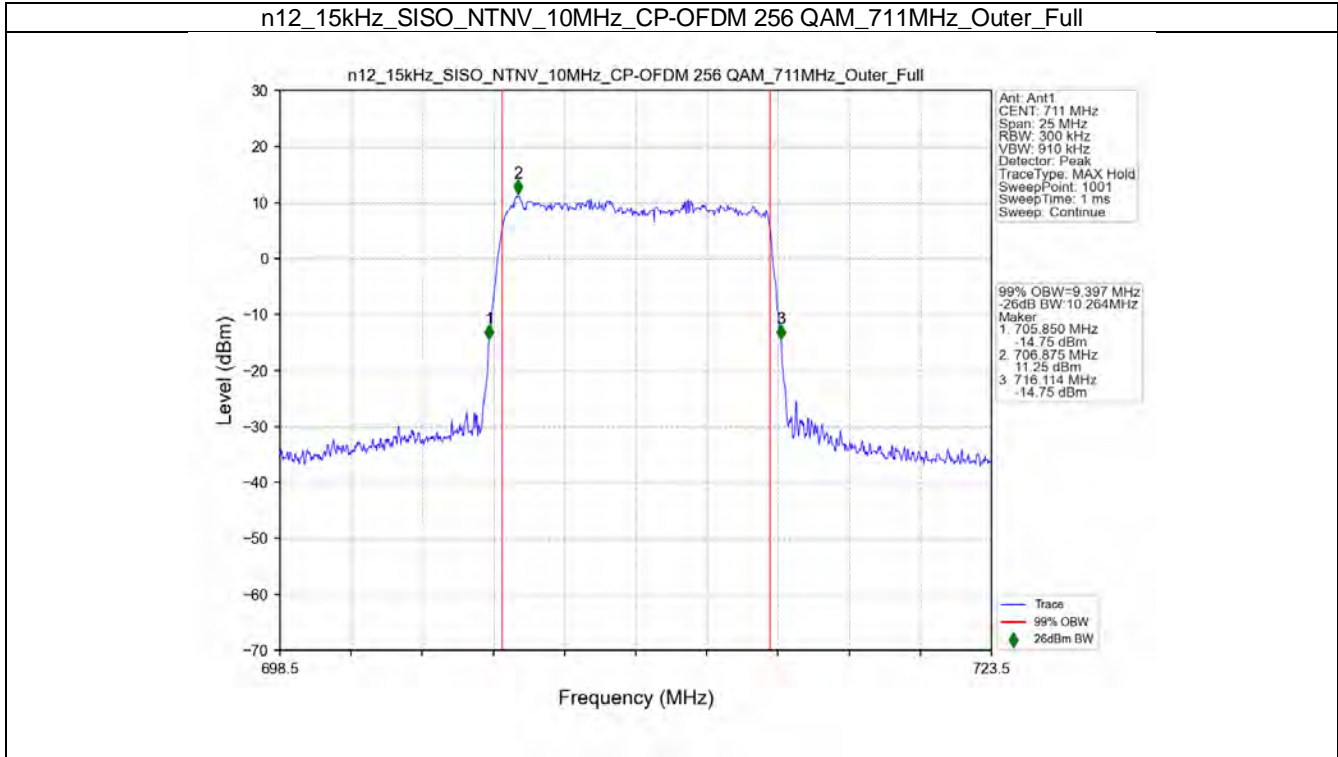


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3.3 15k_SISO_15MHz_NTNV

3.3.1 Test Result

5G NR n12 SCS=15kHz SISO 15MHz NTV						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	706.5	Outer_Full	13.50	14.55	/	Pass
	707.5	Outer_Full	13.52	14.52	/	Pass
	708.5	Outer_Full	13.54	14.57	/	Pass
DFT-s-OFDM QPSK	706.5	Outer_Full	13.54	14.60	/	Pass
	707.5	Outer_Full	13.55	14.63	/	Pass
	708.5	Outer_Full	13.57	14.62	/	Pass
DFT-s-OFDM 16 QAM	706.5	Outer_Full	13.57	14.66	/	Pass
	707.5	Outer_Full	13.59	14.73	/	Pass
	708.5	Outer_Full	13.61	14.63	/	Pass
DFT-s-OFDM 64 QAM	706.5	Outer_Full	13.50	14.66	/	Pass
	707.5	Outer_Full	13.49	14.60	/	Pass
	708.5	Outer_Full	13.51	14.62	/	Pass
DFT-s-OFDM 256 QAM	706.5	Outer_Full	13.52	14.58	/	Pass
	707.5	Outer_Full	13.50	14.56	/	Pass
	708.5	Outer_Full	13.57	14.73	/	Pass
CP-OFDM QPSK	706.5	Outer_Full	14.14	15.29	/	Pass
	707.5	Outer_Full	14.15	15.27	/	Pass
	708.5	Outer_Full	14.18	15.30	/	Pass
CP-OFDM 16 QAM	706.5	Outer_Full	14.18	15.33	/	Pass
	707.5	Outer_Full	14.19	15.27	/	Pass
	708.5	Outer_Full	14.21	15.27	/	Pass
CP-OFDM 64 QAM	706.5	Outer_Full	14.21	15.32	/	Pass
	707.5	Outer_Full	14.23	15.31	/	Pass
	708.5	Outer_Full	14.27	15.37	/	Pass
CP-OFDM 256 QAM	706.5	Outer_Full	14.14	15.31	/	Pass
	707.5	Outer_Full	14.17	15.29	/	Pass
	708.5	Outer_Full	14.20	15.33	/	Pass



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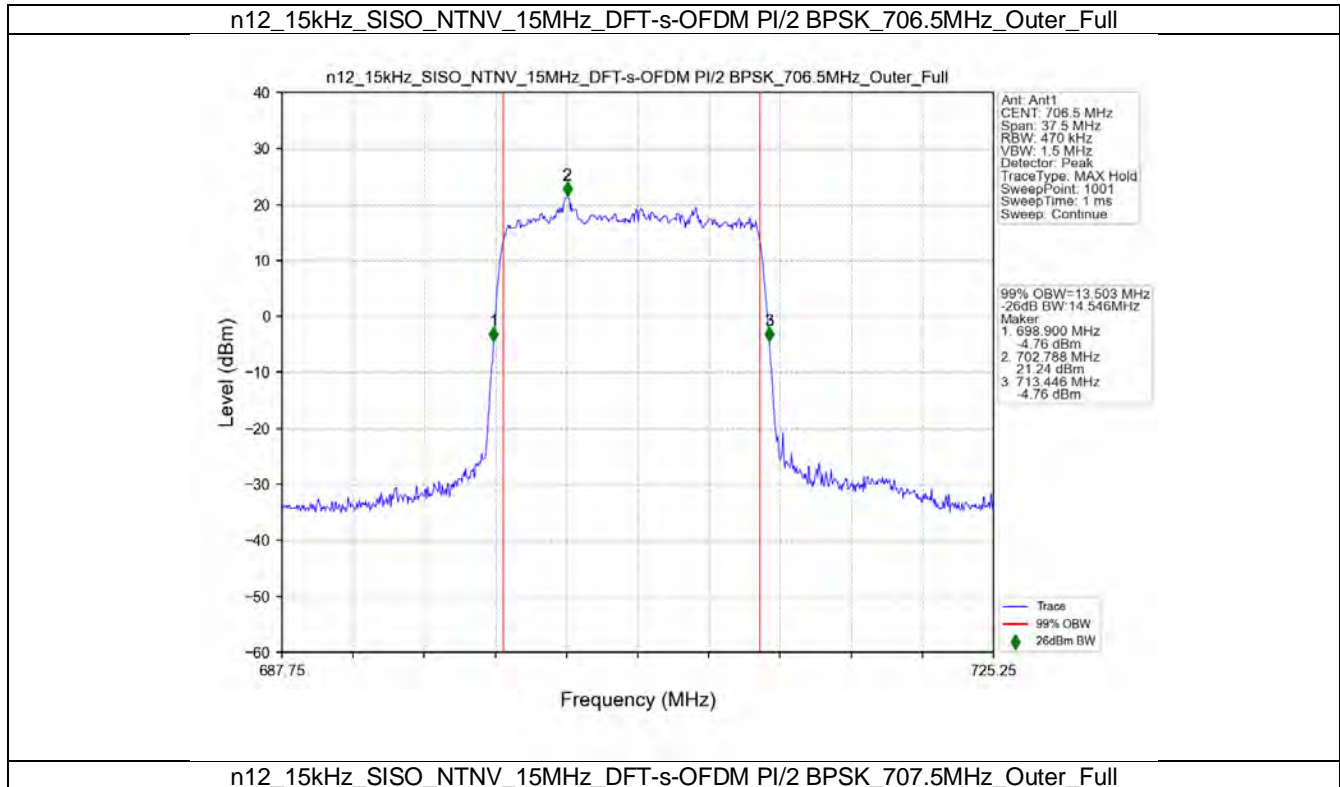


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3.3.2 Test Graph



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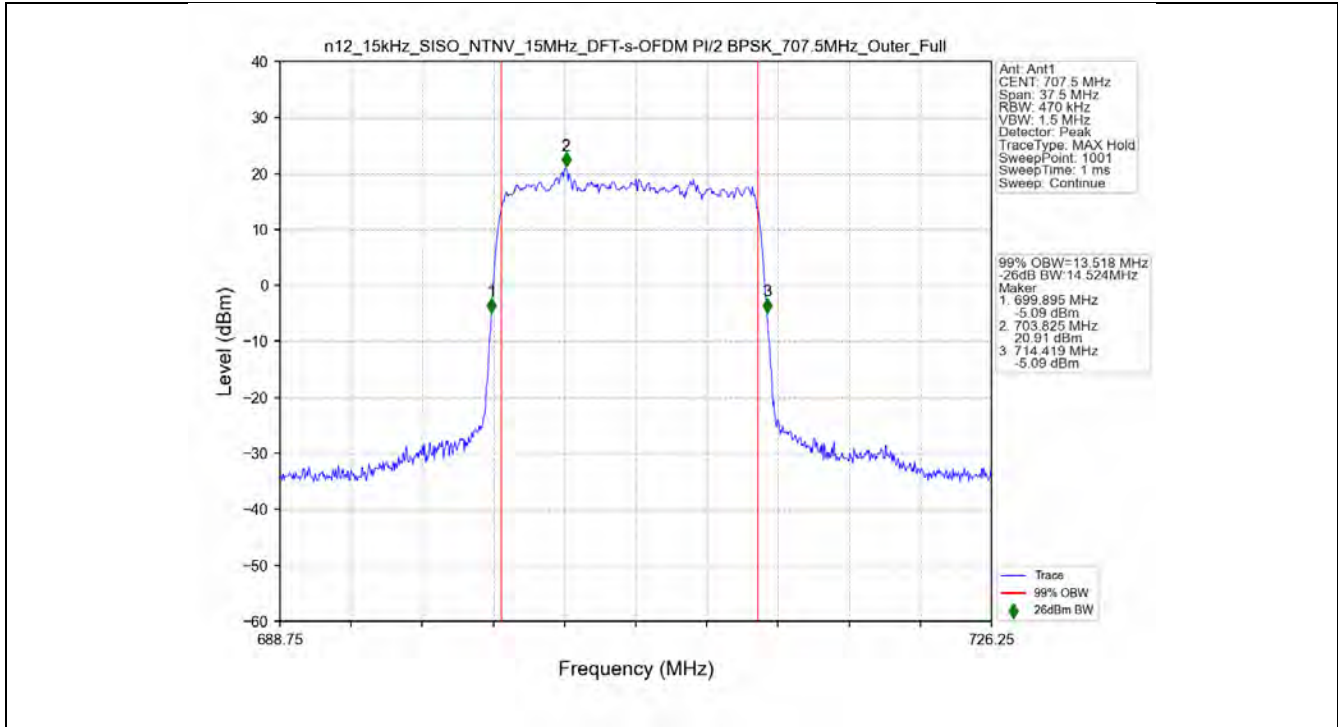


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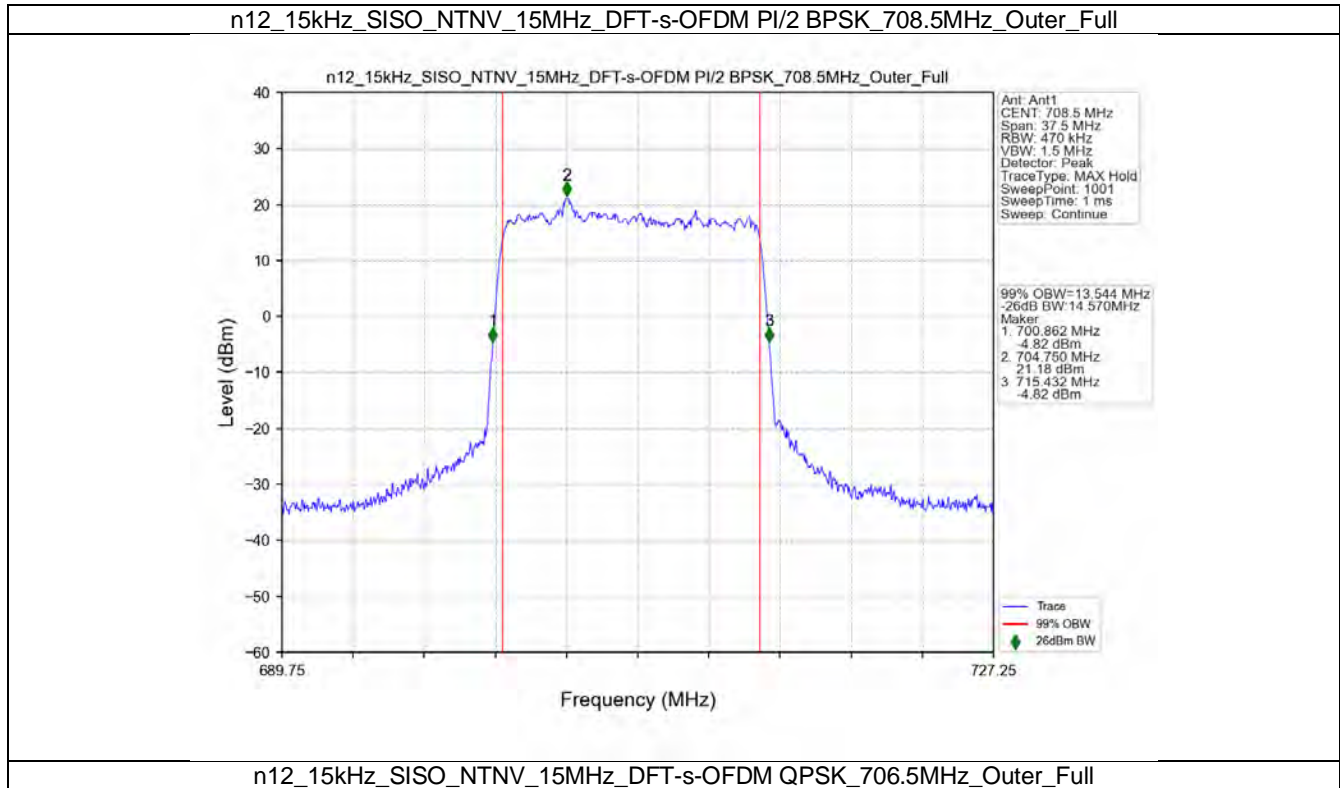


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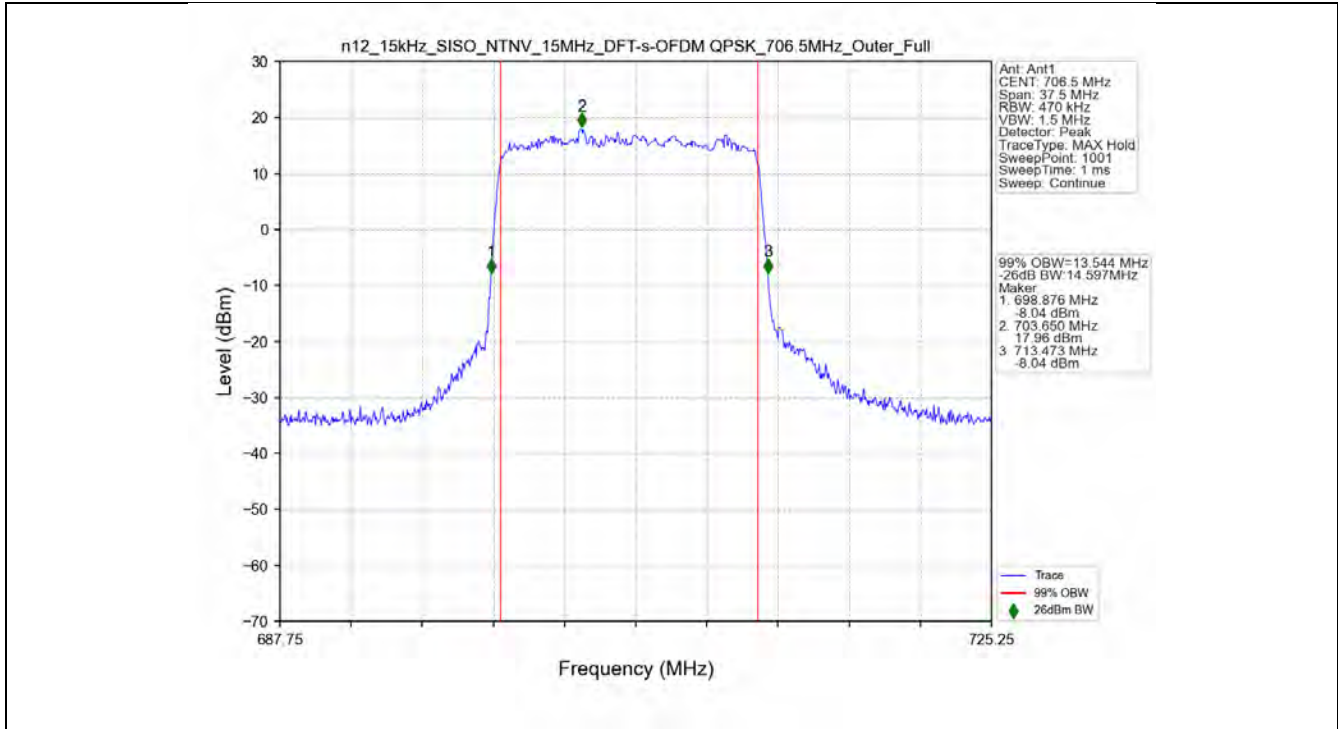


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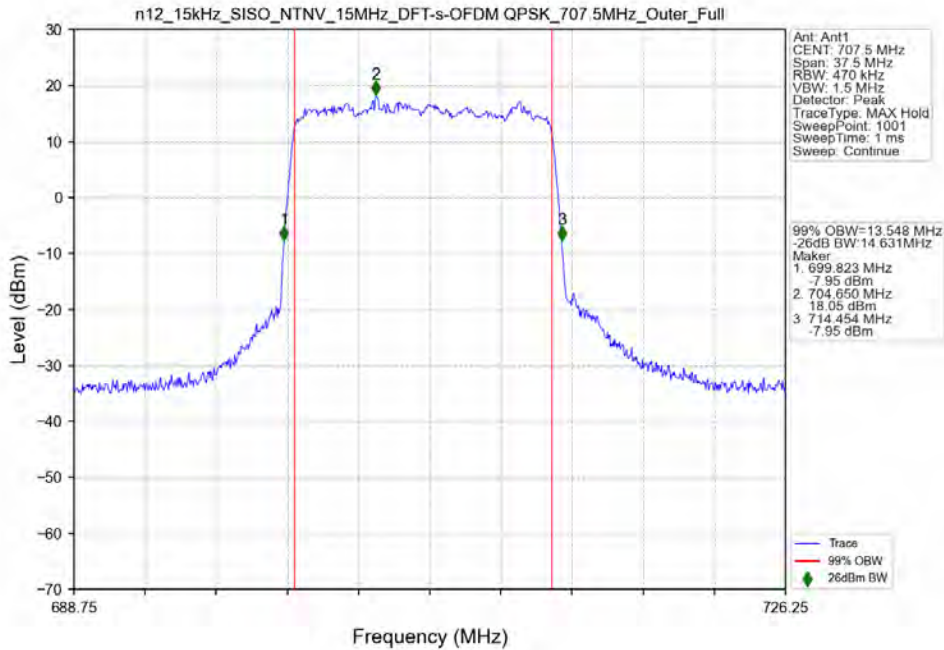
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n12_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM_QPSK_708.5MHz_Outer_Full



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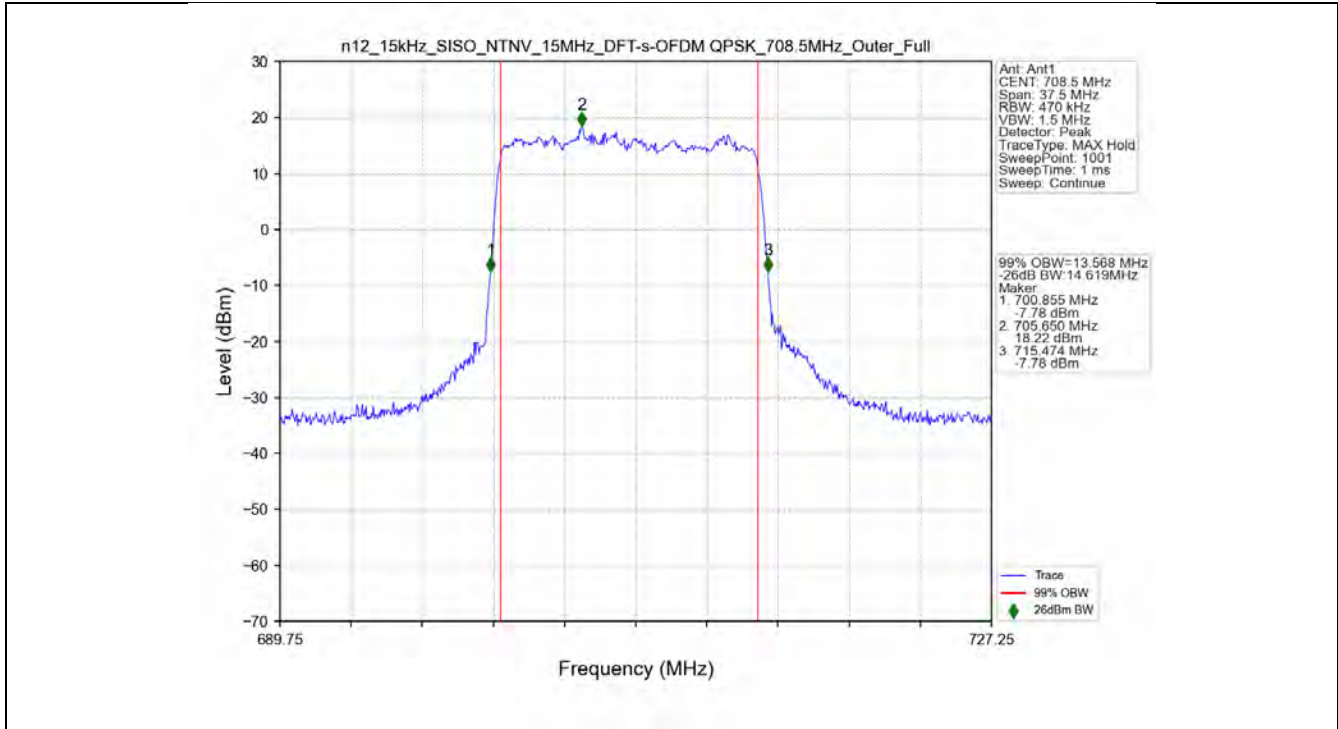


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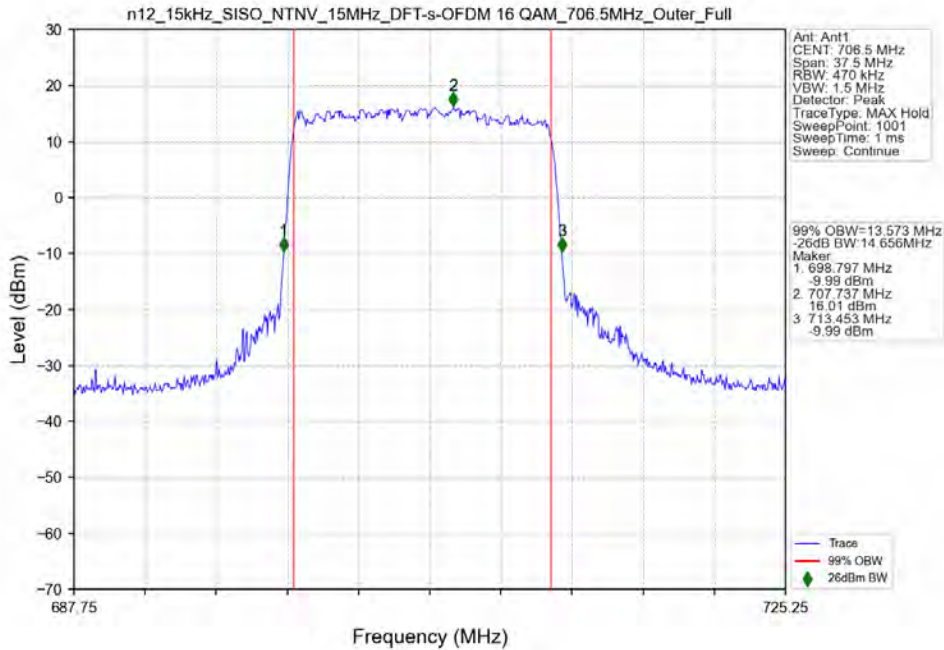
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n12_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM_16 QAM_706.5MHz_Outer_Full



n12_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM_16 QAM_707.5MHz_Outer_Full



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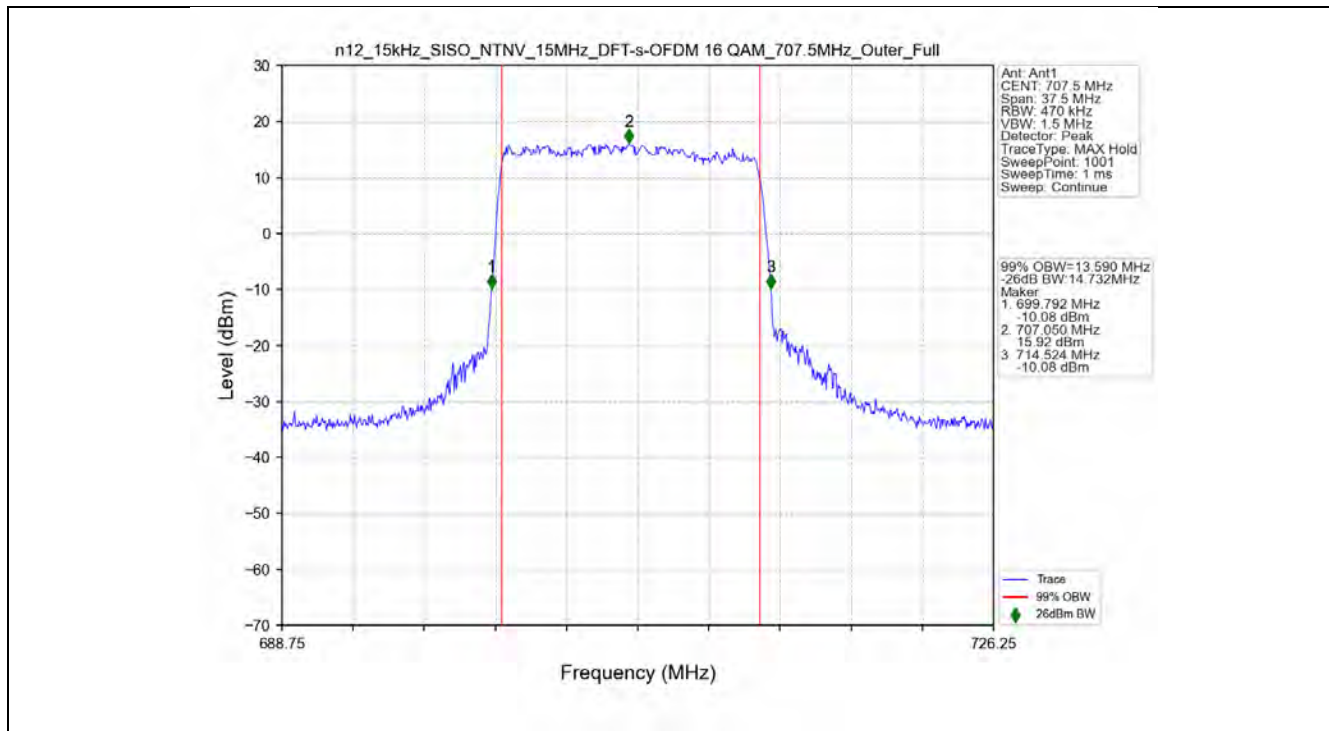
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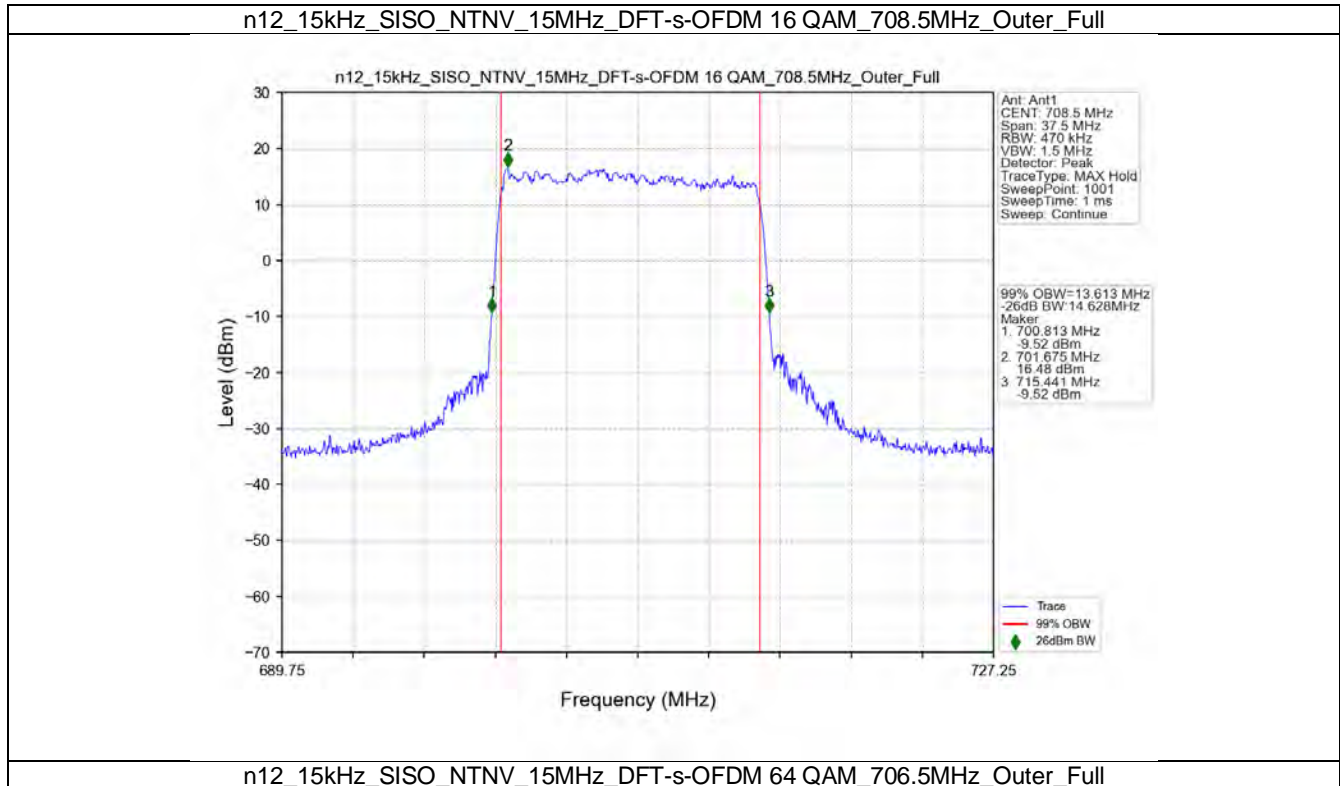


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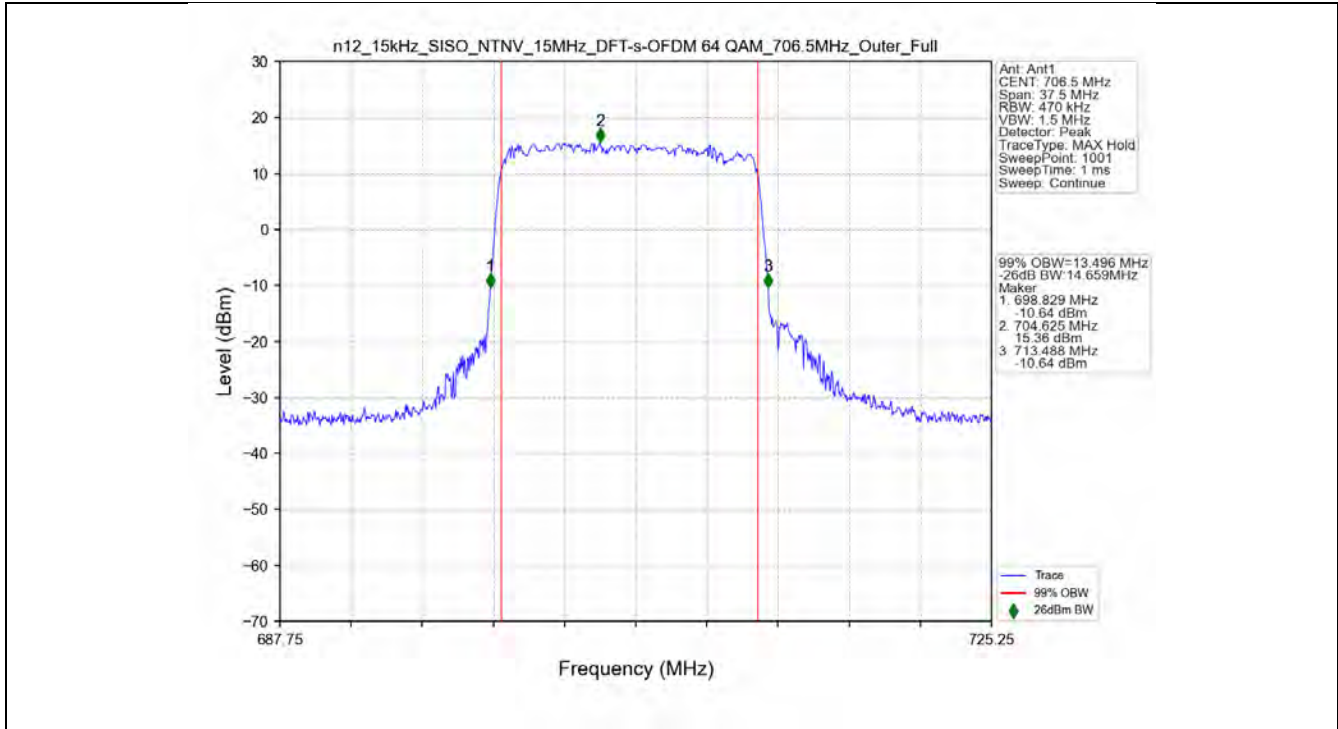


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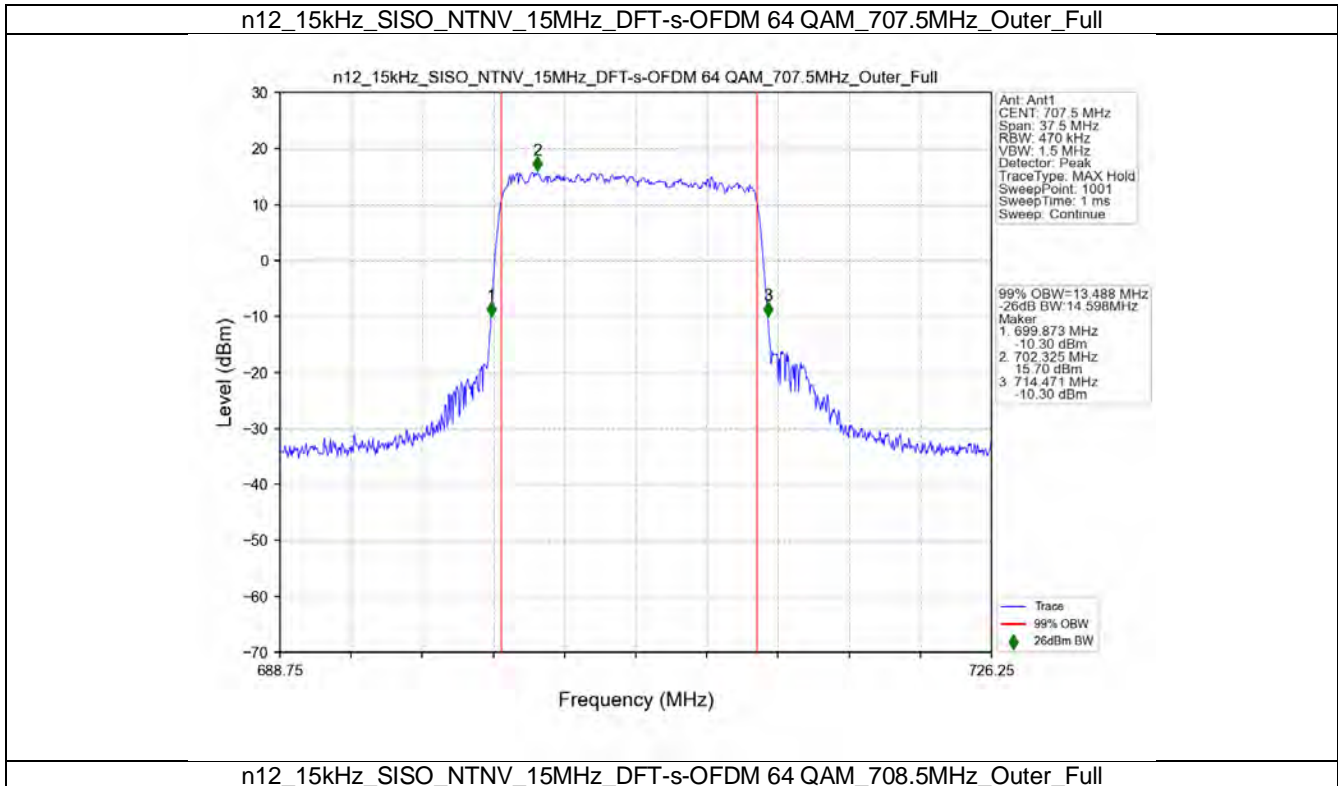


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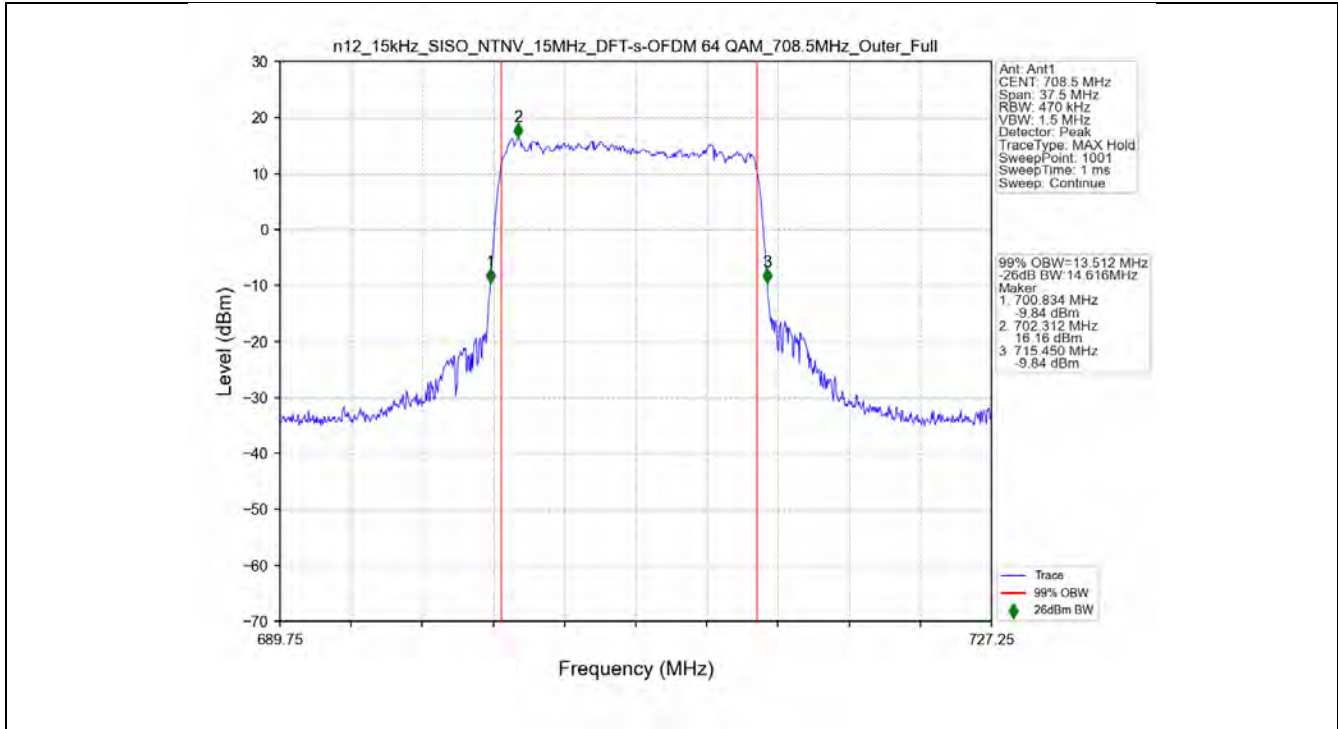


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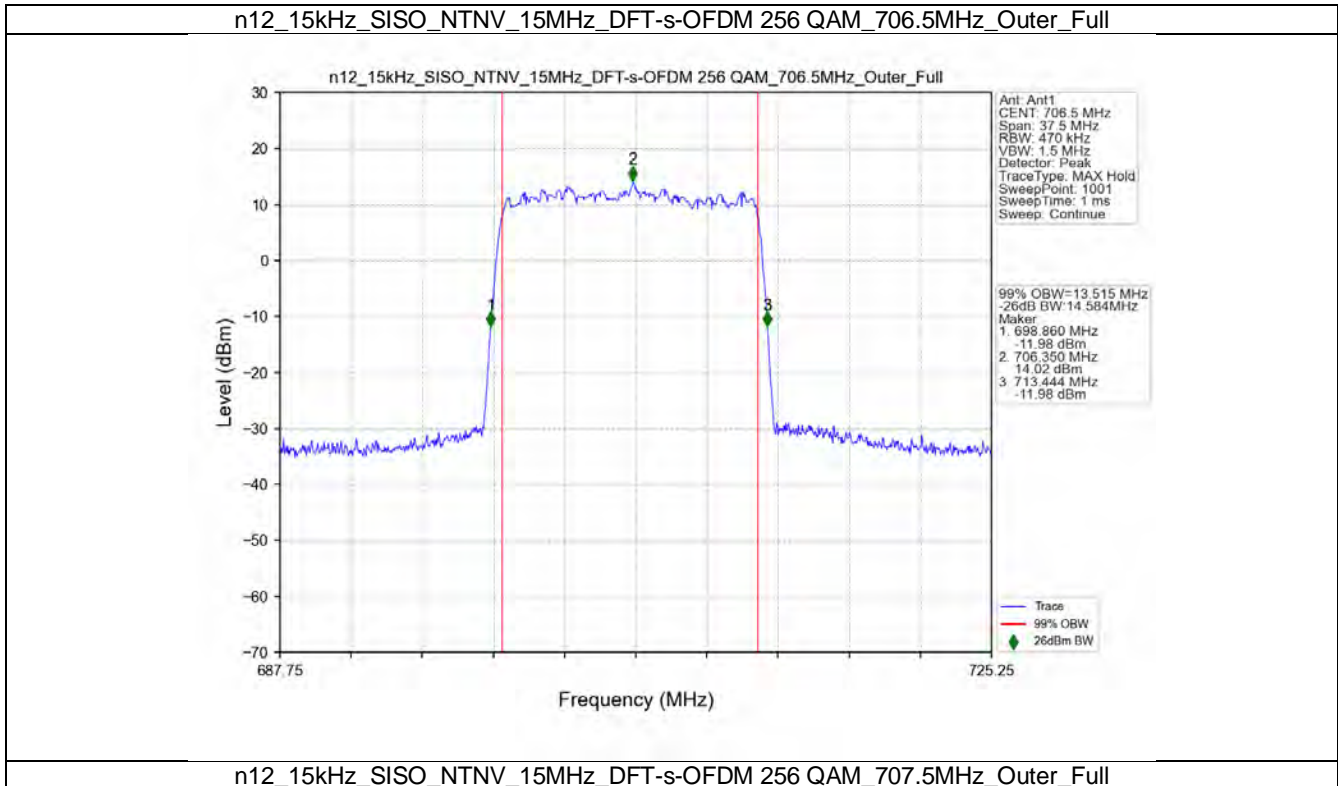


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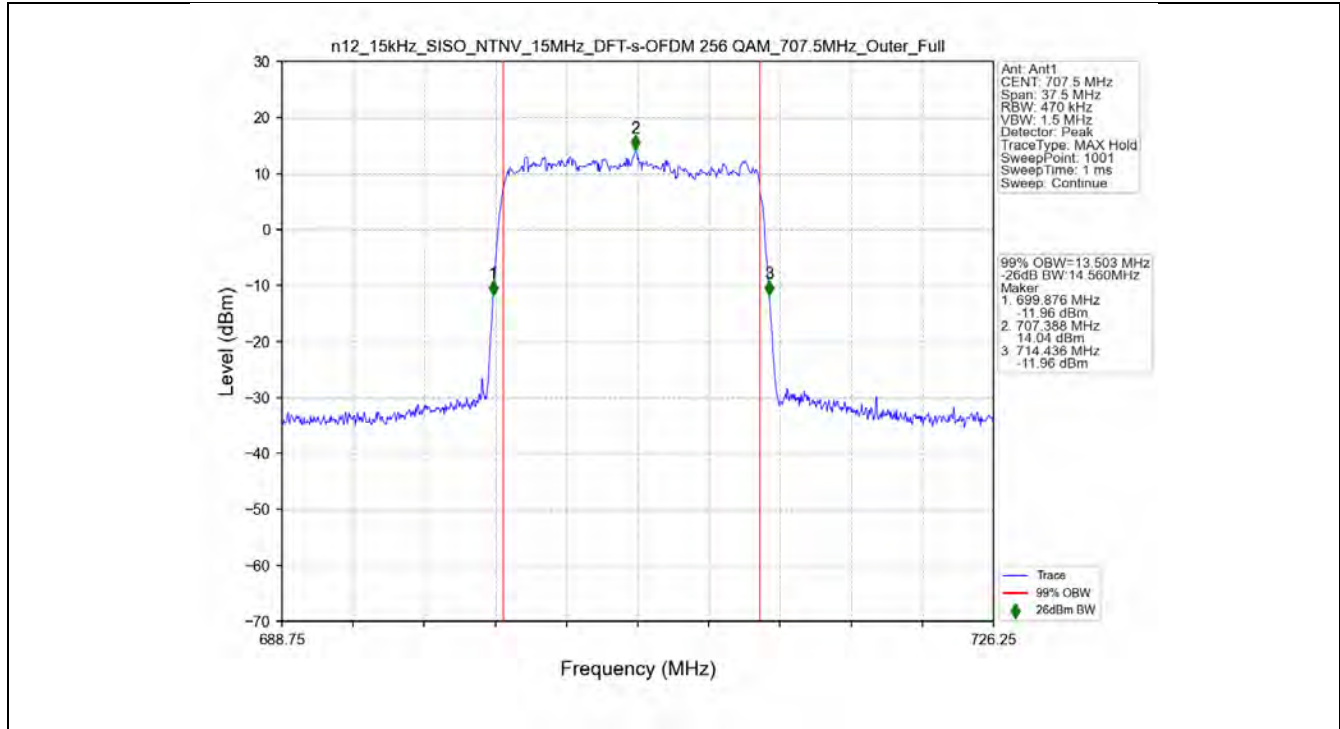


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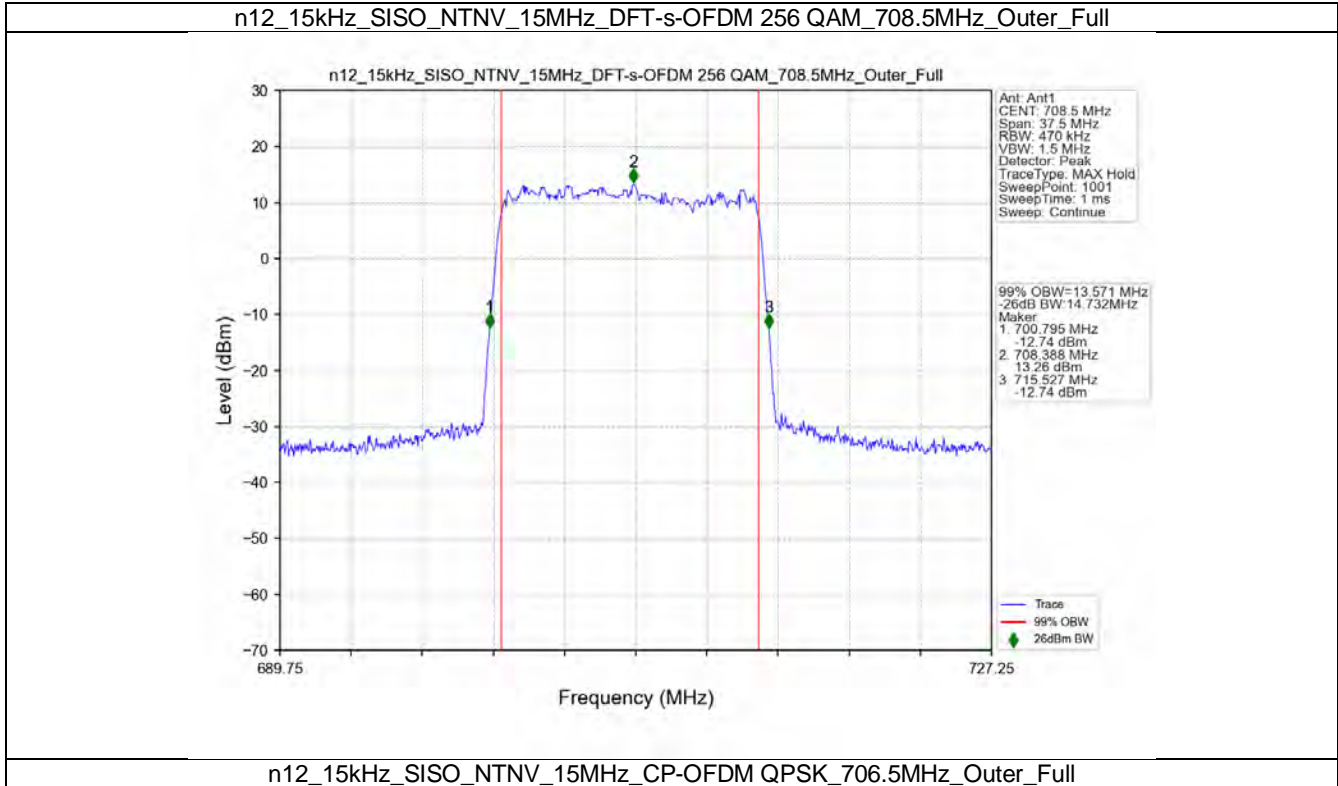


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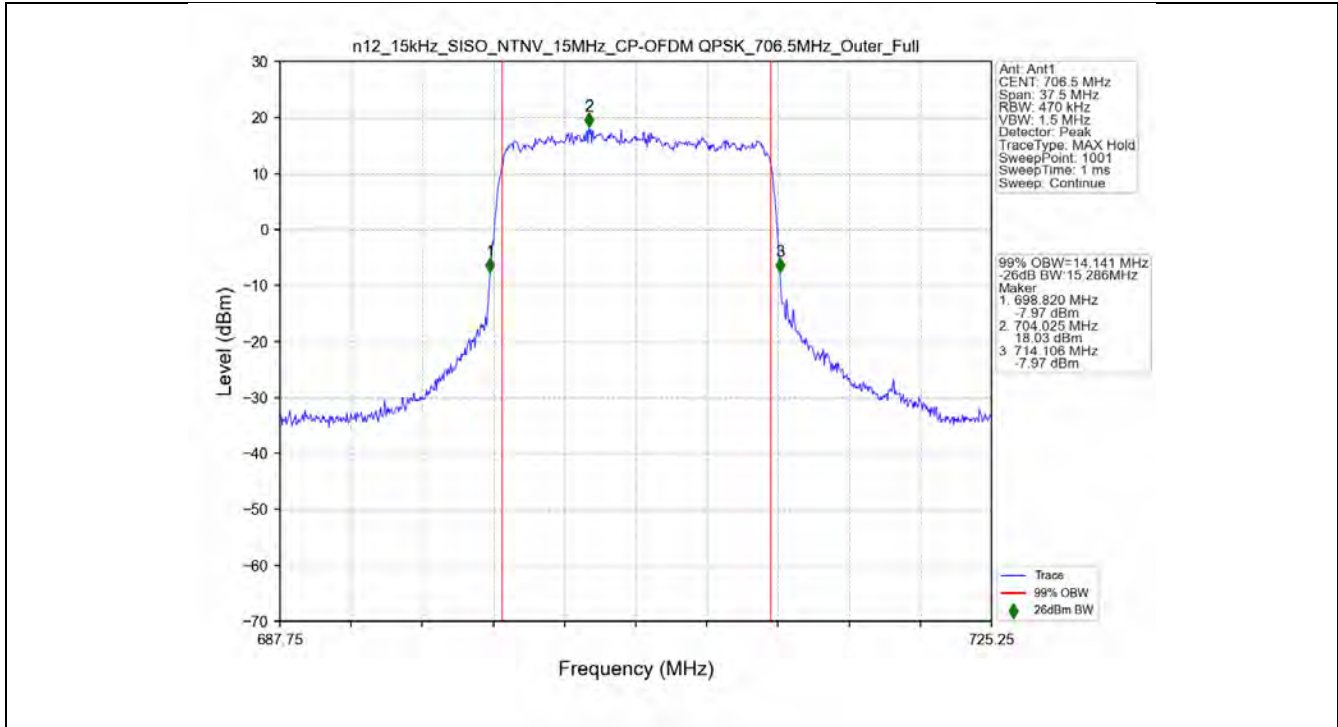


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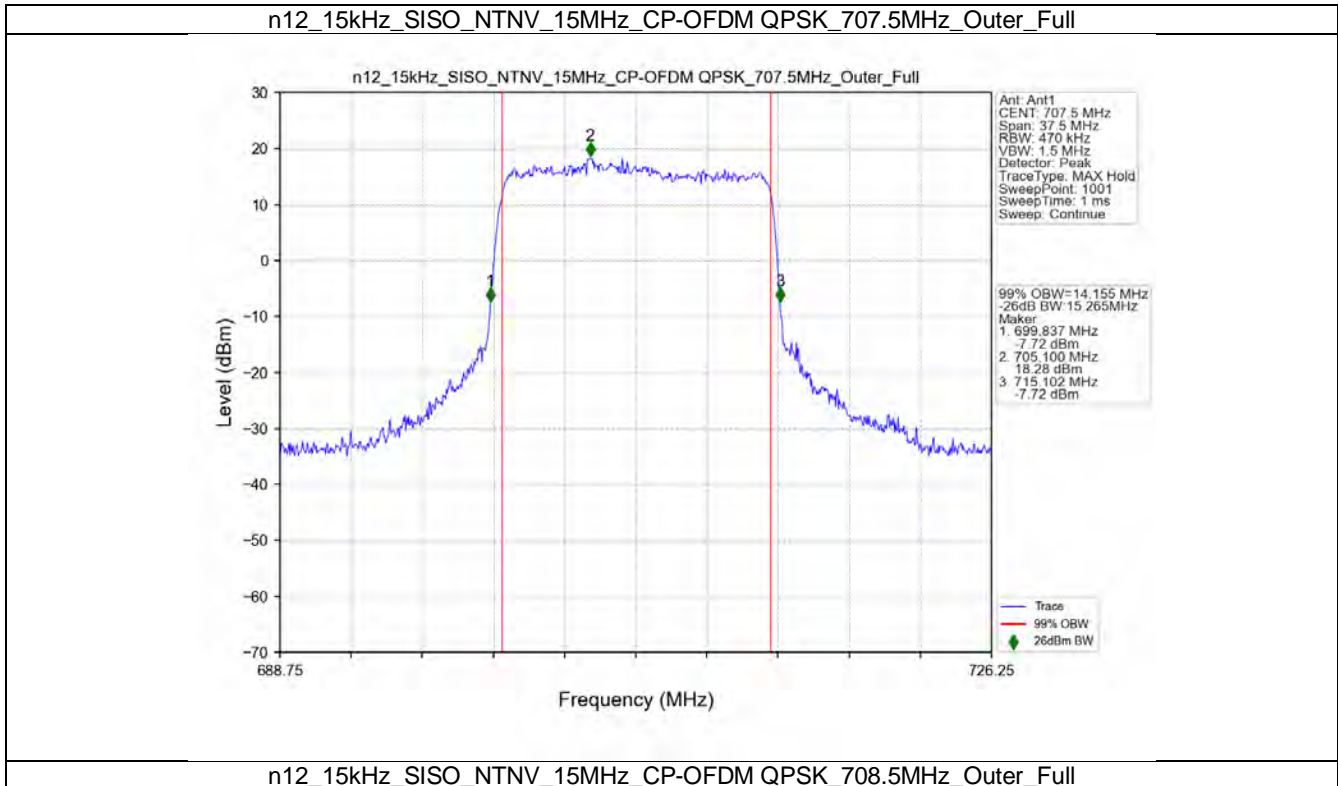


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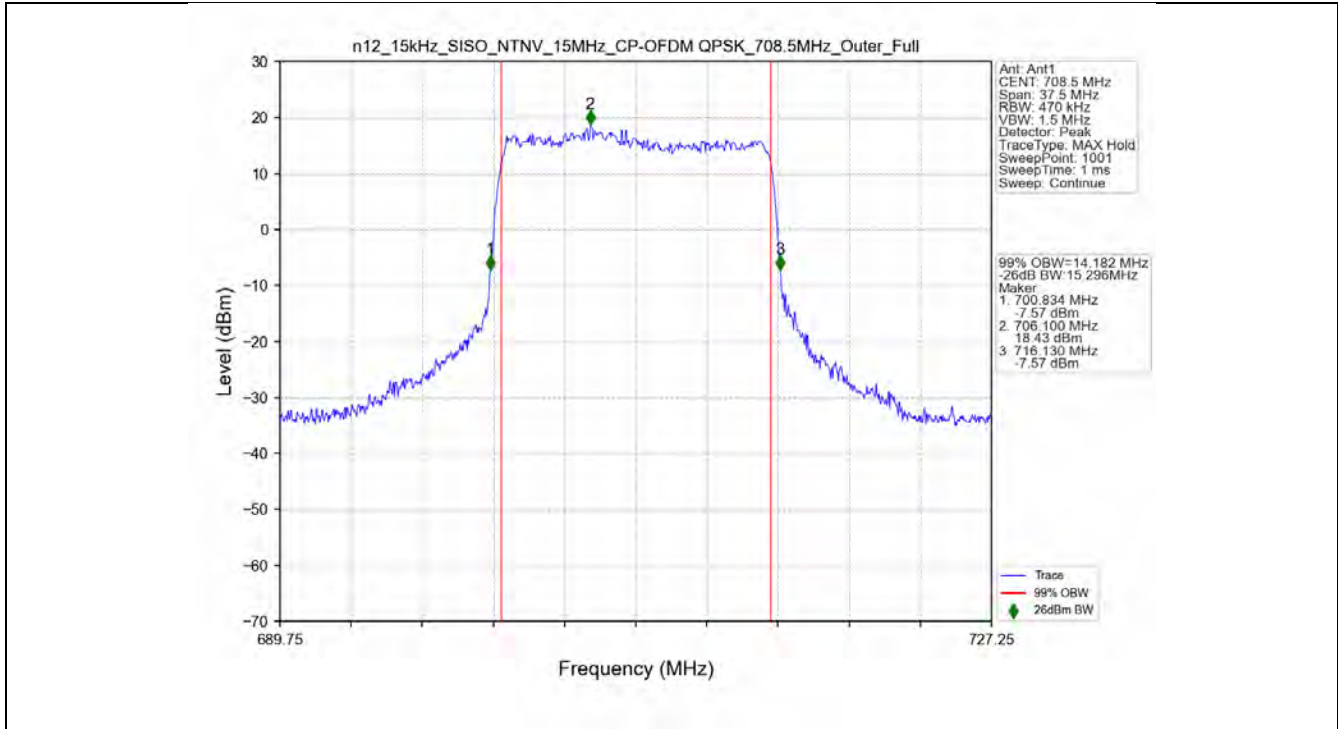


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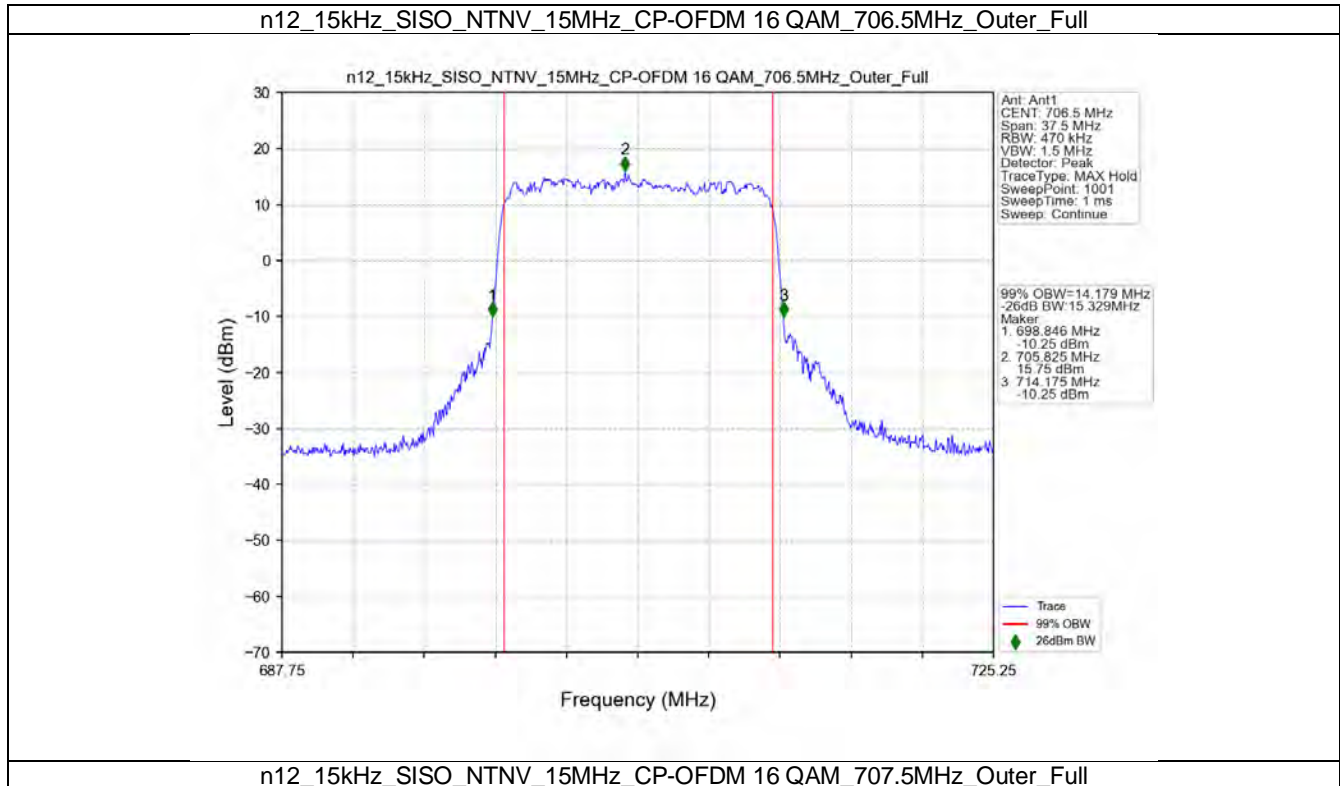


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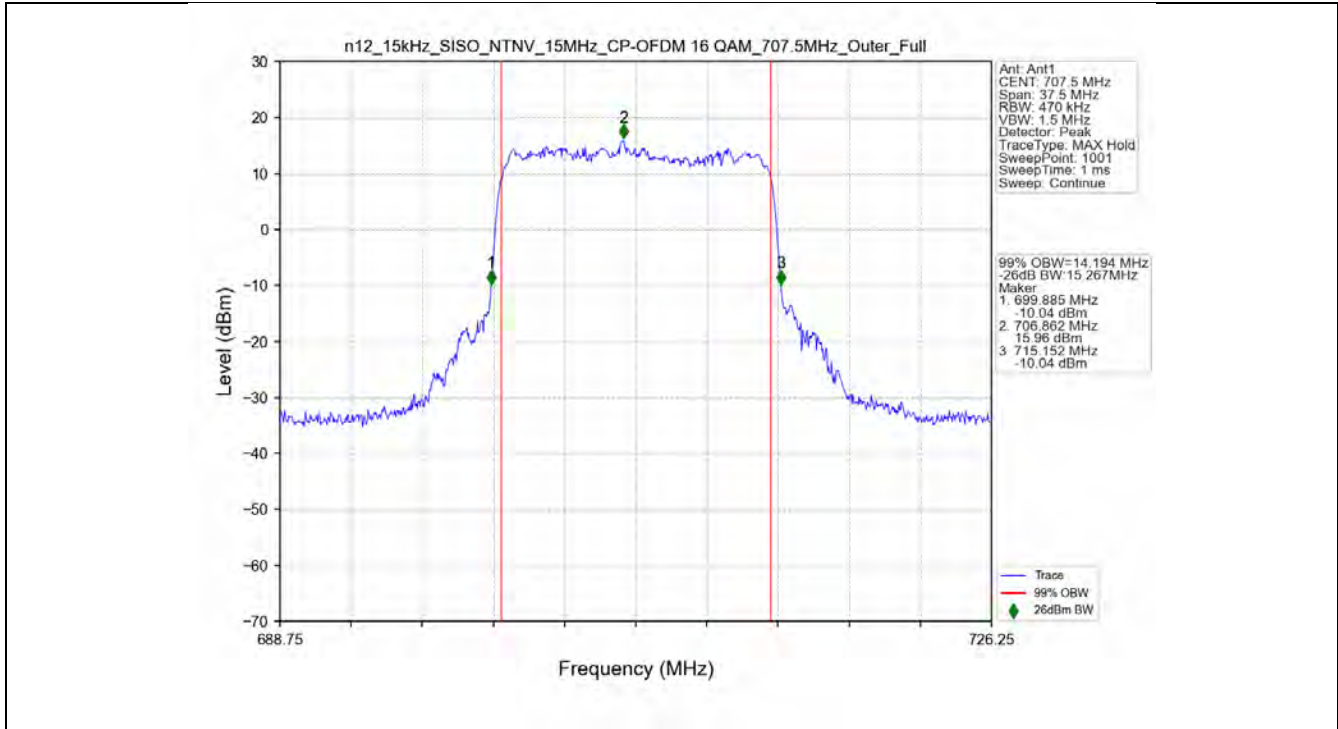


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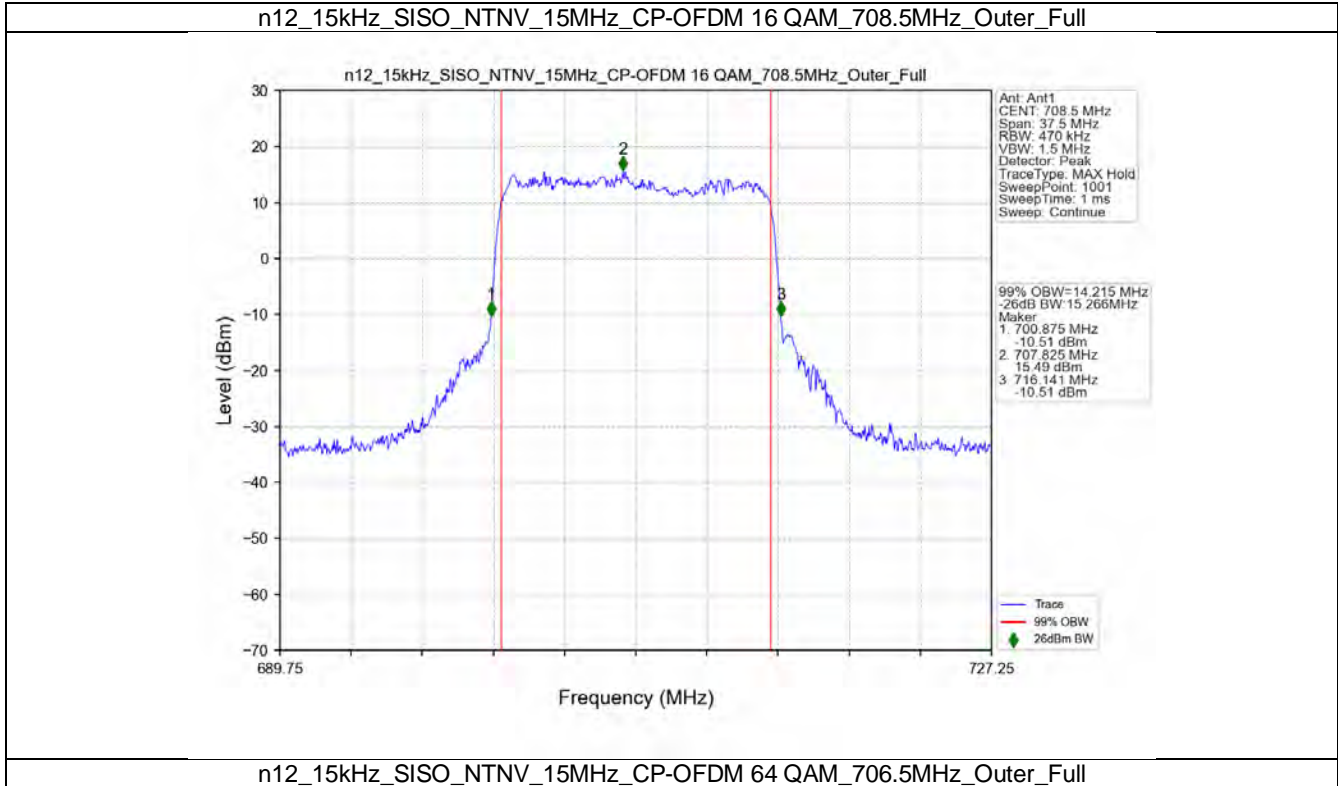


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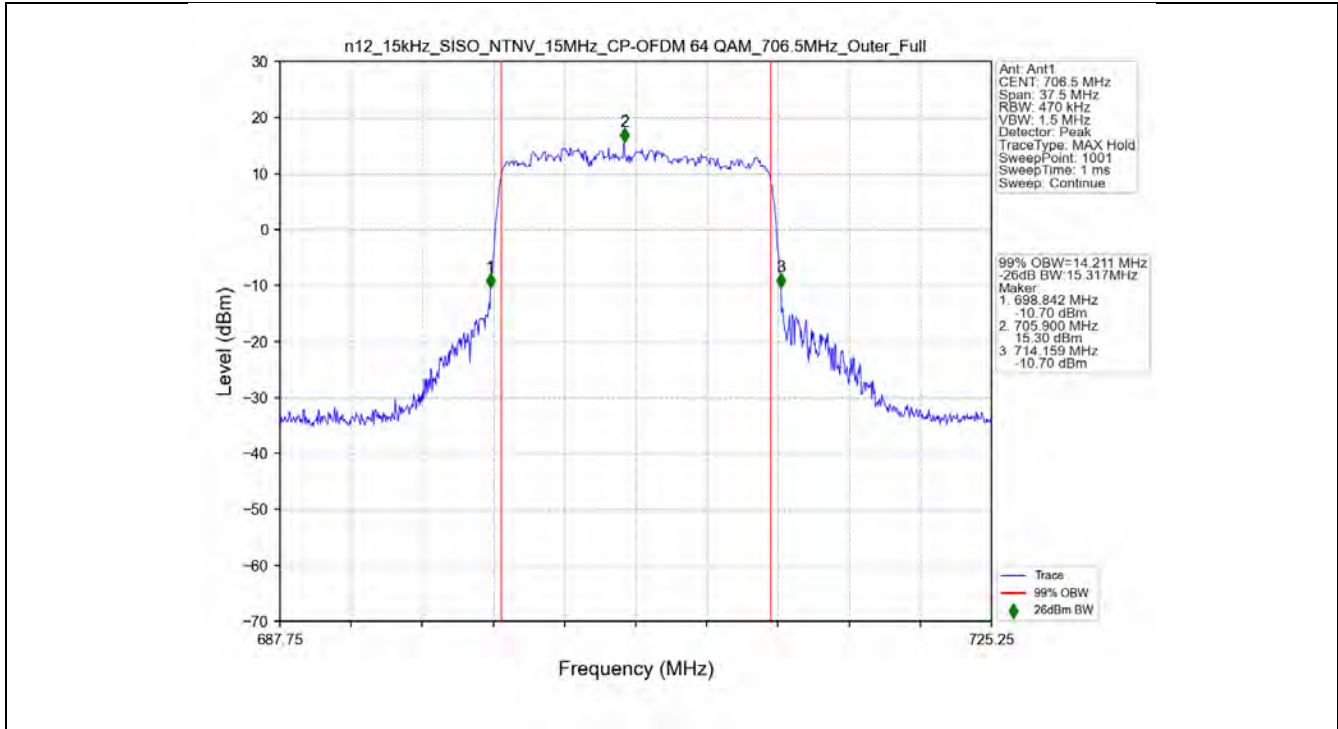


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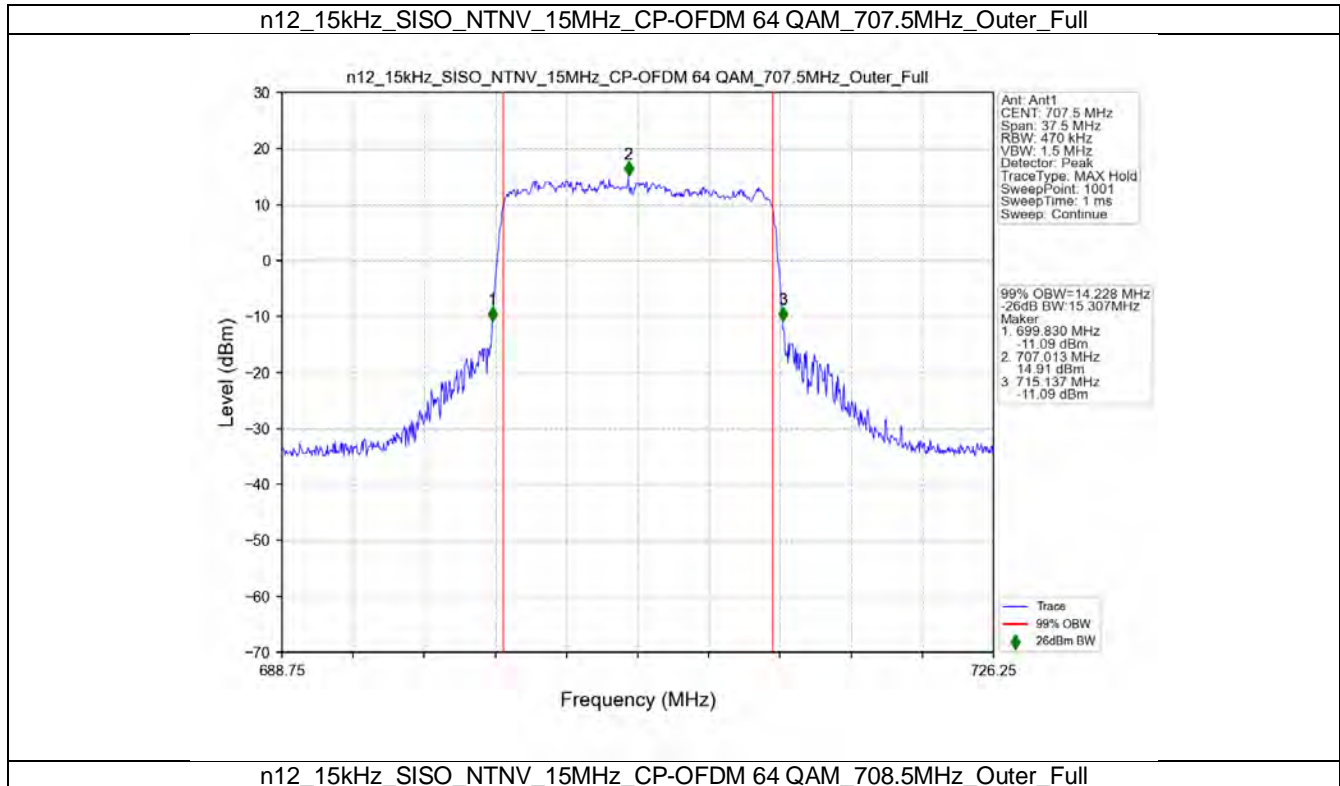


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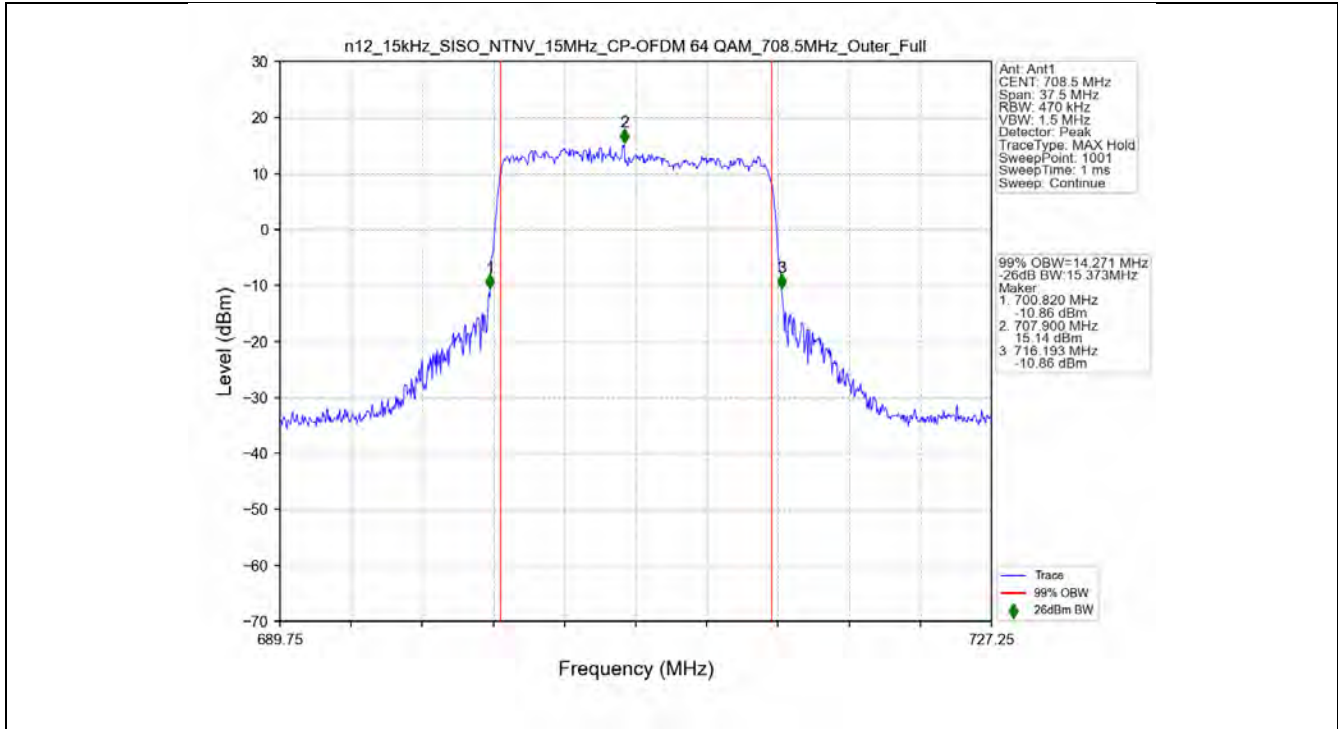


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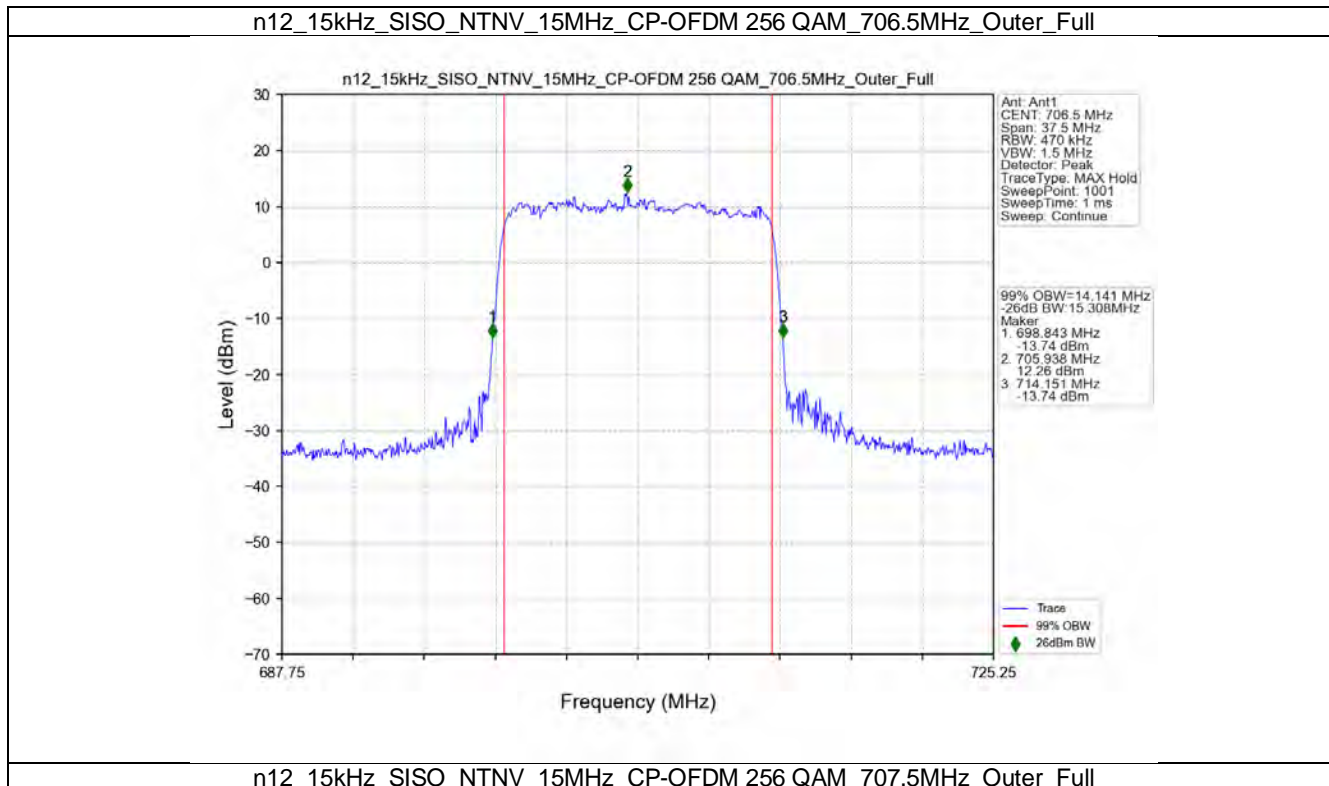
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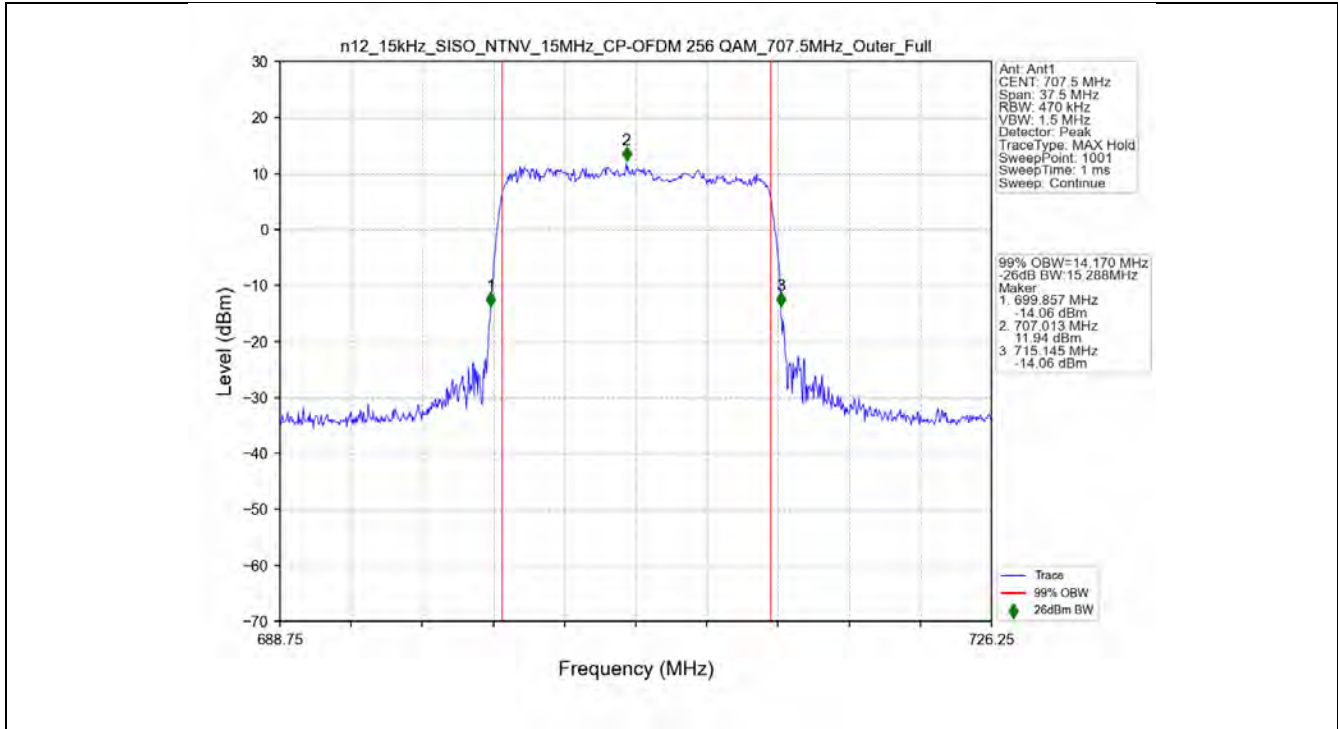


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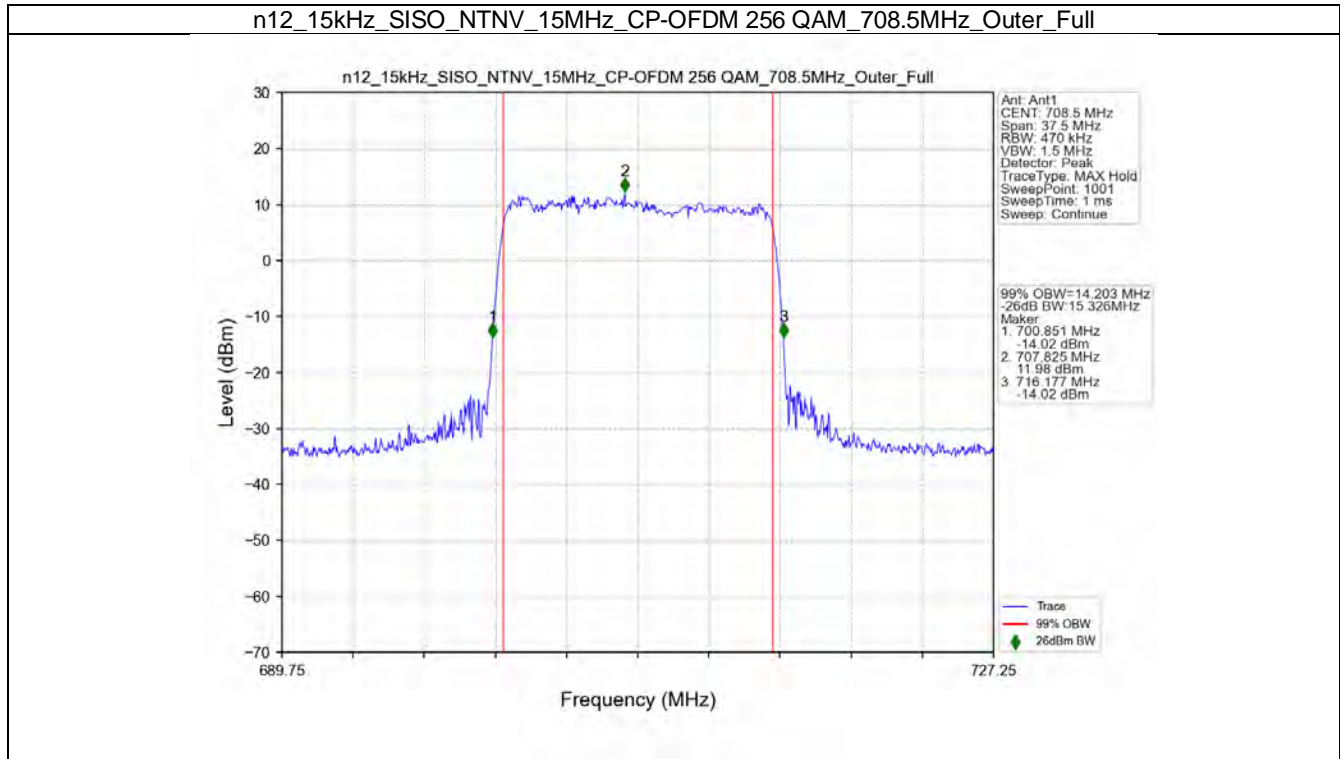


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4. Peak-Average Ratio

4.1 15k_SISO_5MHz_NTNV

4.1.1 Test Result

5G NR n12 SCS=15kHz SISO 5MHz NTNv							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)			Limit	Verdict
			Ant1	Ant2	Sum		
DFT-s-OFDM PI/2 BPSK	701.5	Outer_Full	4.19	/	/	<=13	Pass
	707.5	Outer_Full	4.13	/	/	<=13	Pass
	713.5	Outer_Full	3.89	/	/	<=13	Pass
DFT-s-OFDM QPSK	701.5	Outer_Full	4.67	/	/	<=13	Pass
	707.5	Outer_Full	4.77	/	/	<=13	Pass
	713.5	Outer_Full	5.16	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	701.5	Outer_Full	5.84	/	/	<=13	Pass
	707.5	Outer_Full	5.94	/	/	<=13	Pass
	713.5	Outer_Full	6.21	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	701.5	Outer_Full	6.37	/	/	<=13	Pass
	707.5	Outer_Full	6.31	/	/	<=13	Pass
	713.5	Outer_Full	6.54	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	701.5	Outer_Full	6.38	/	/	<=13	Pass
	707.5	Outer_Full	6.30	/	/	<=13	Pass
	713.5	Outer_Full	6.39	/	/	<=13	Pass
CP-OFDM QPSK	701.5	Outer_Full	6.58	/	/	<=13	Pass
	707.5	Outer_Full	7.18	/	/	<=13	Pass
	713.5	Outer_Full	6.88	/	/	<=13	Pass
CP-OFDM 16 QAM	701.5	Outer_Full	6.92	/	/	<=13	Pass
	707.5	Outer_Full	7.48	/	/	<=13	Pass
	713.5	Outer_Full	7.15	/	/	<=13	Pass
CP-OFDM 64 QAM	701.5	Outer_Full	7.40	/	/	<=13	Pass
	707.5	Outer_Full	8.01	/	/	<=13	Pass
	713.5	Outer_Full	7.63	/	/	<=13	Pass
CP-OFDM 256 QAM	701.5	Outer_Full	8.48	/	/	<=13	Pass
	707.5	Outer_Full	8.34	/	/	<=13	Pass
	713.5	Outer_Full	8.36	/	/	<=13	Pass



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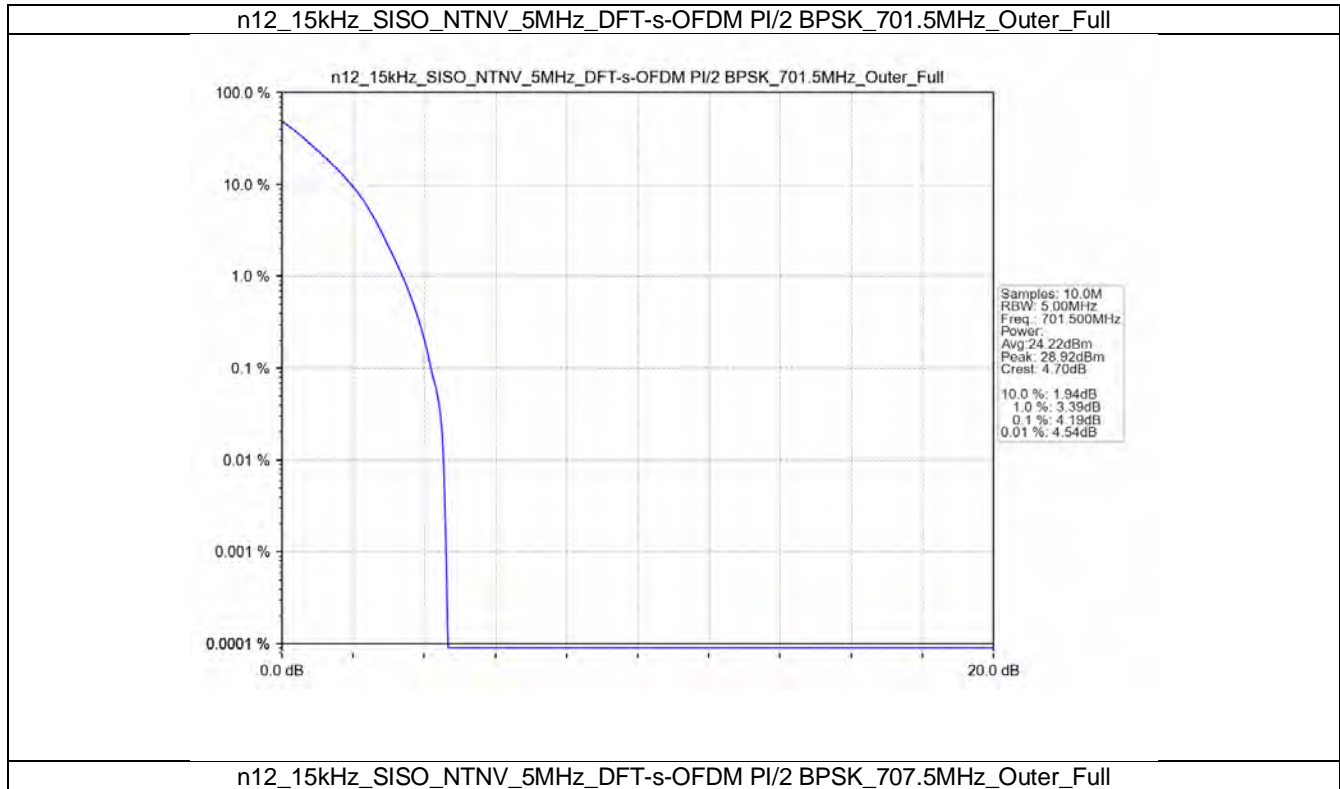
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4.1.2 Test Graph



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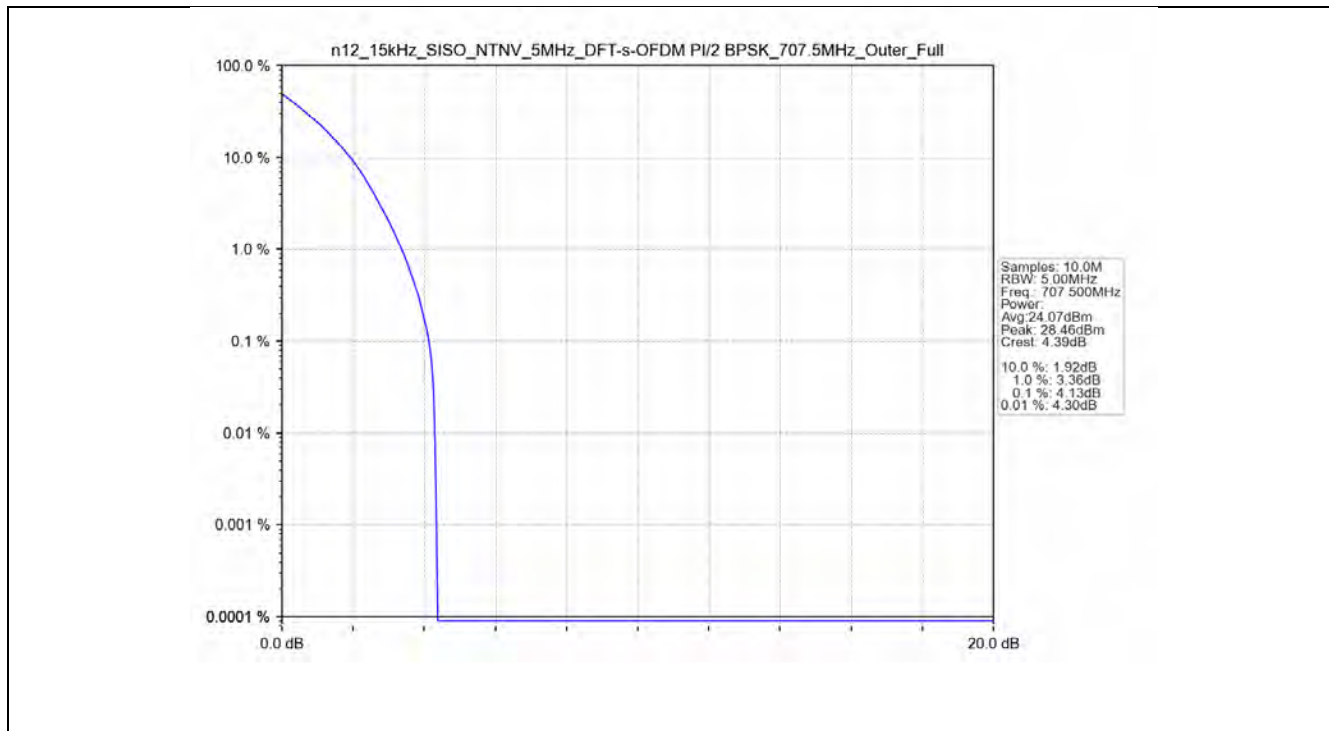
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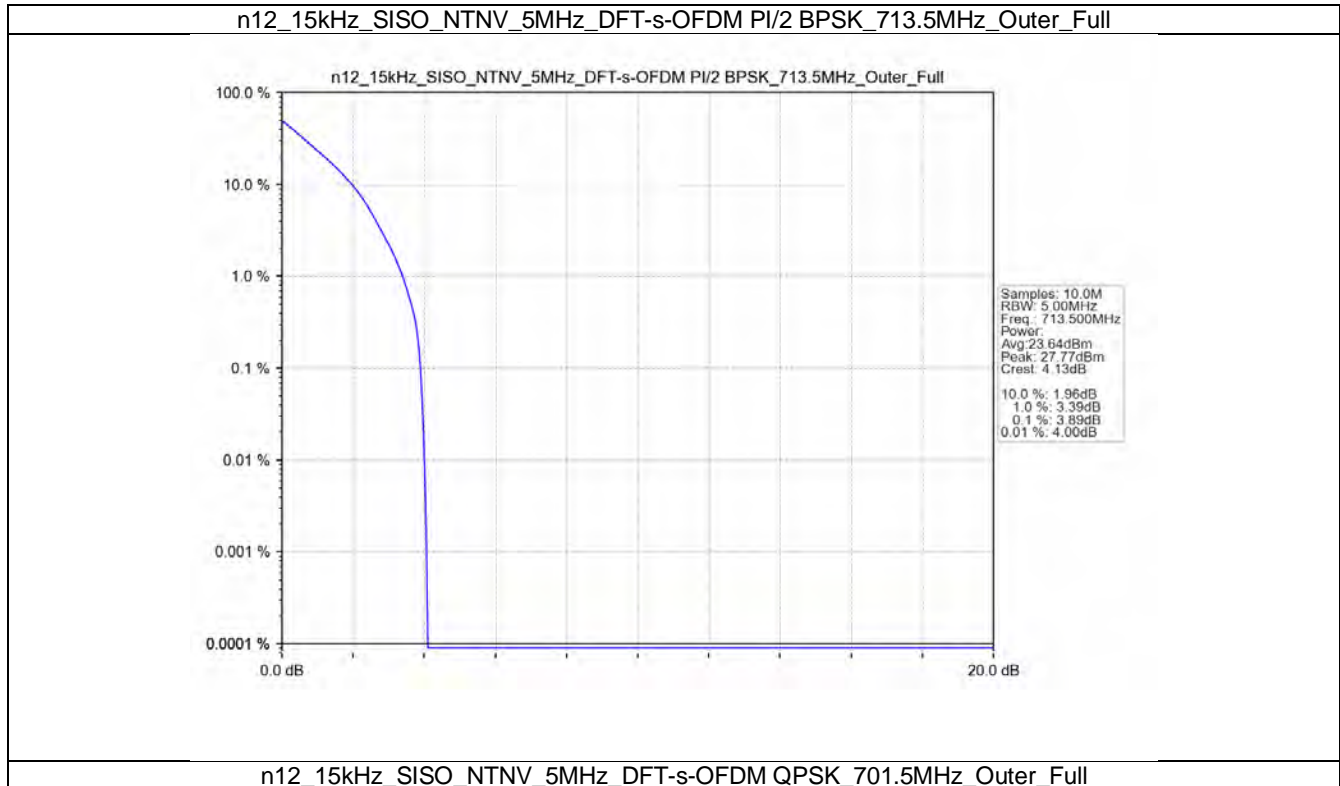


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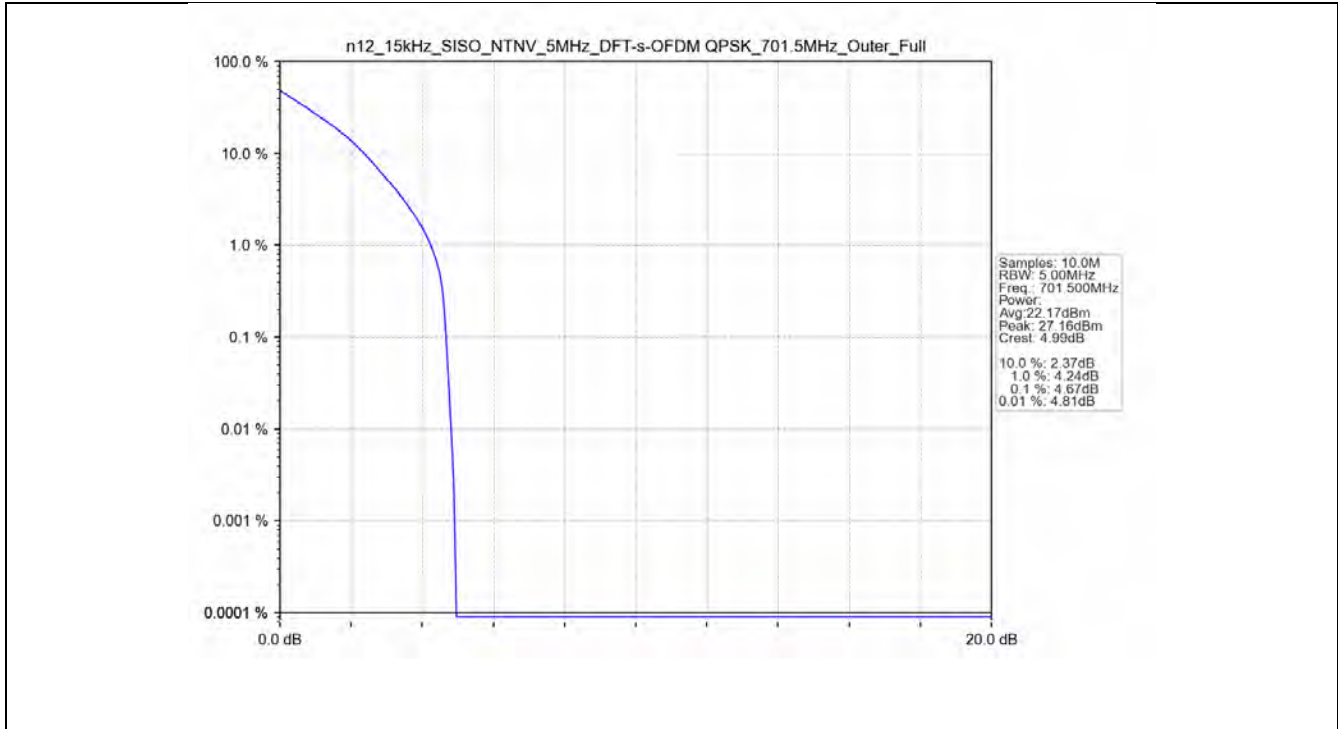


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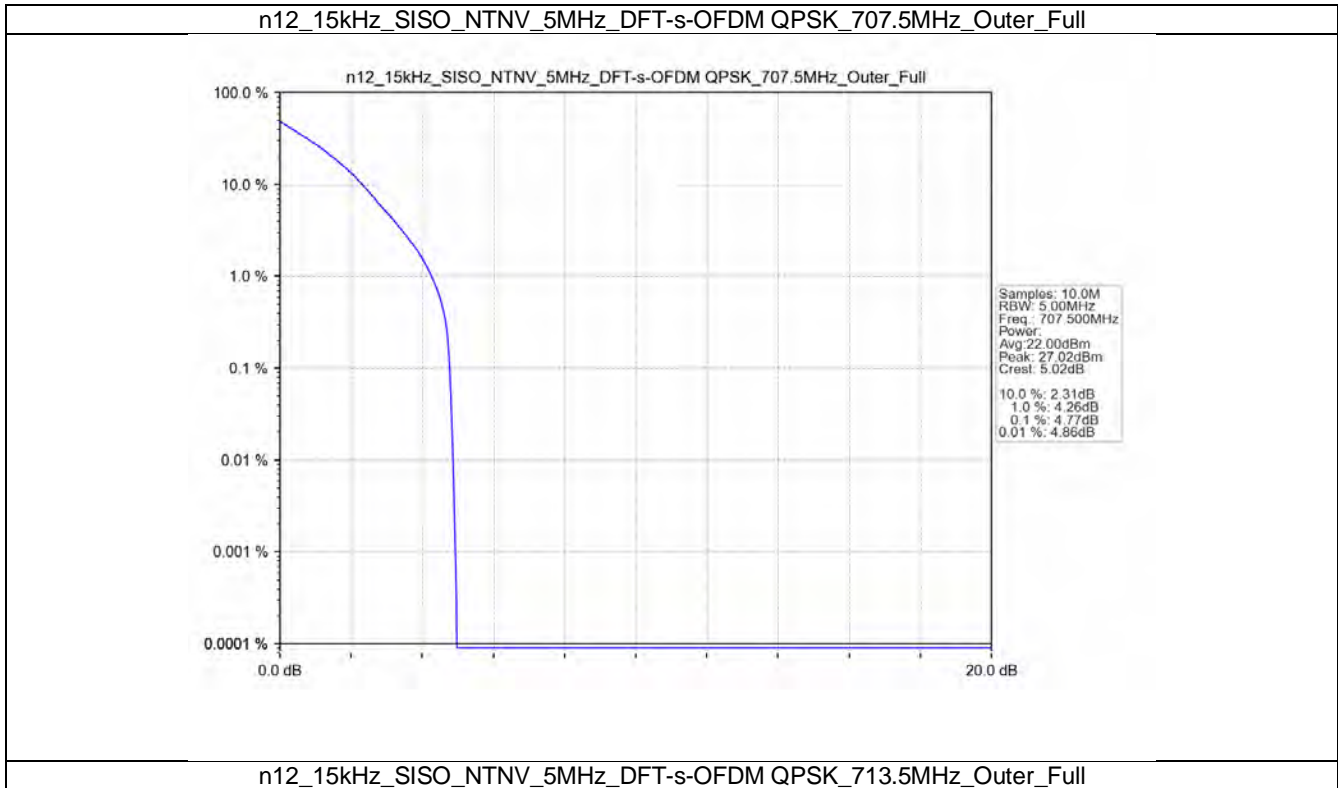


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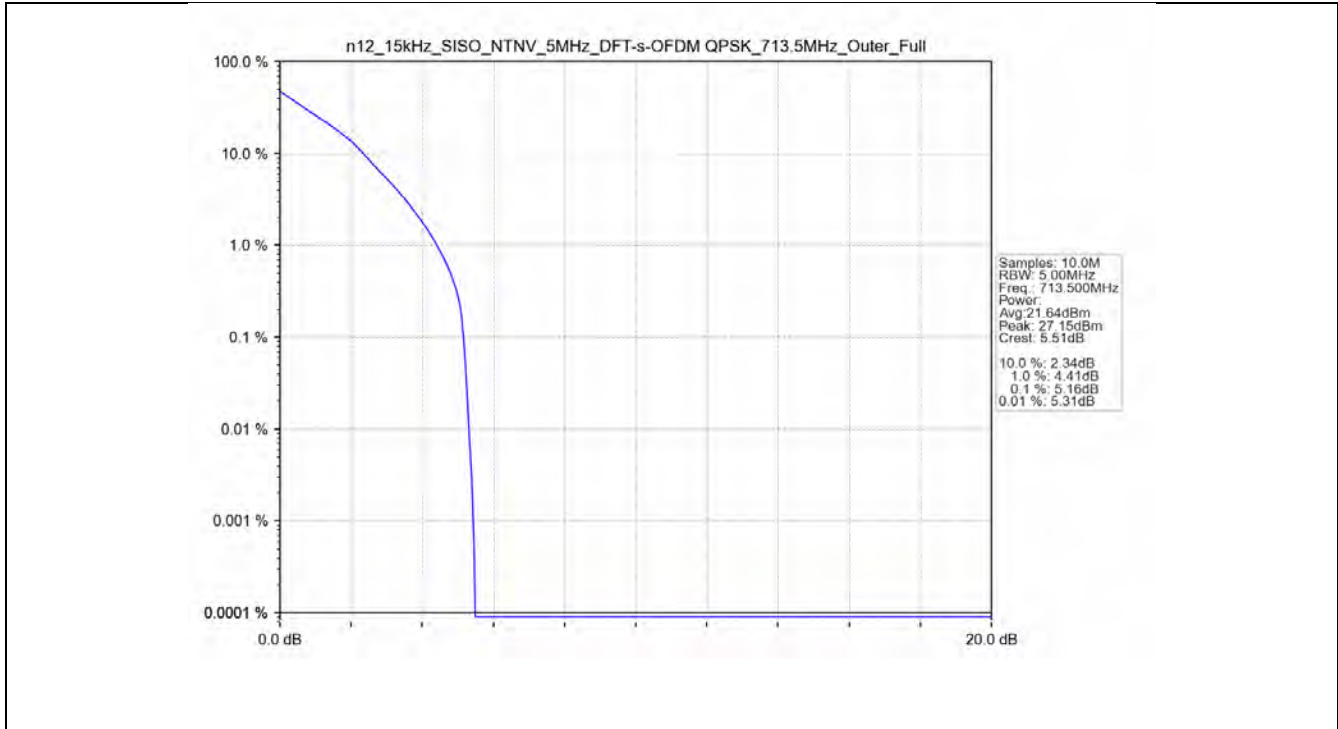


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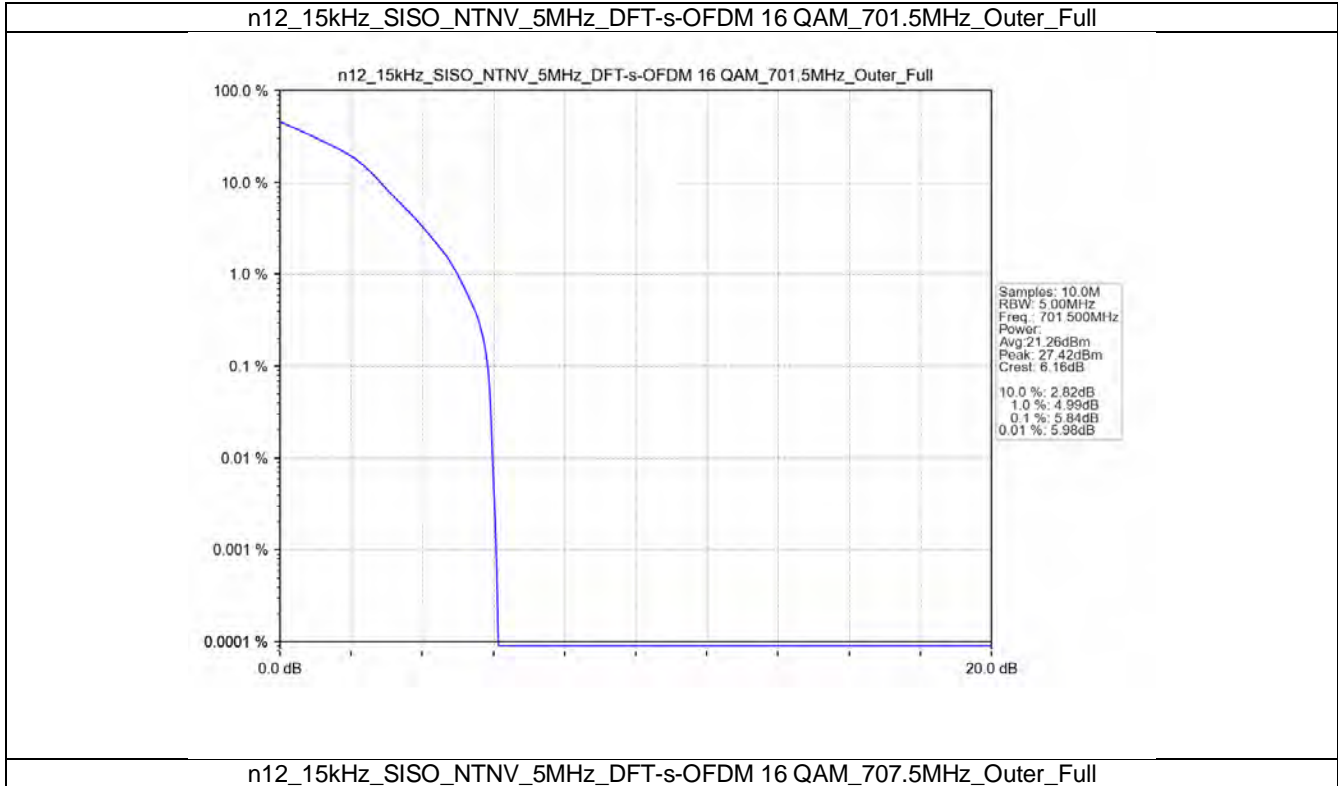


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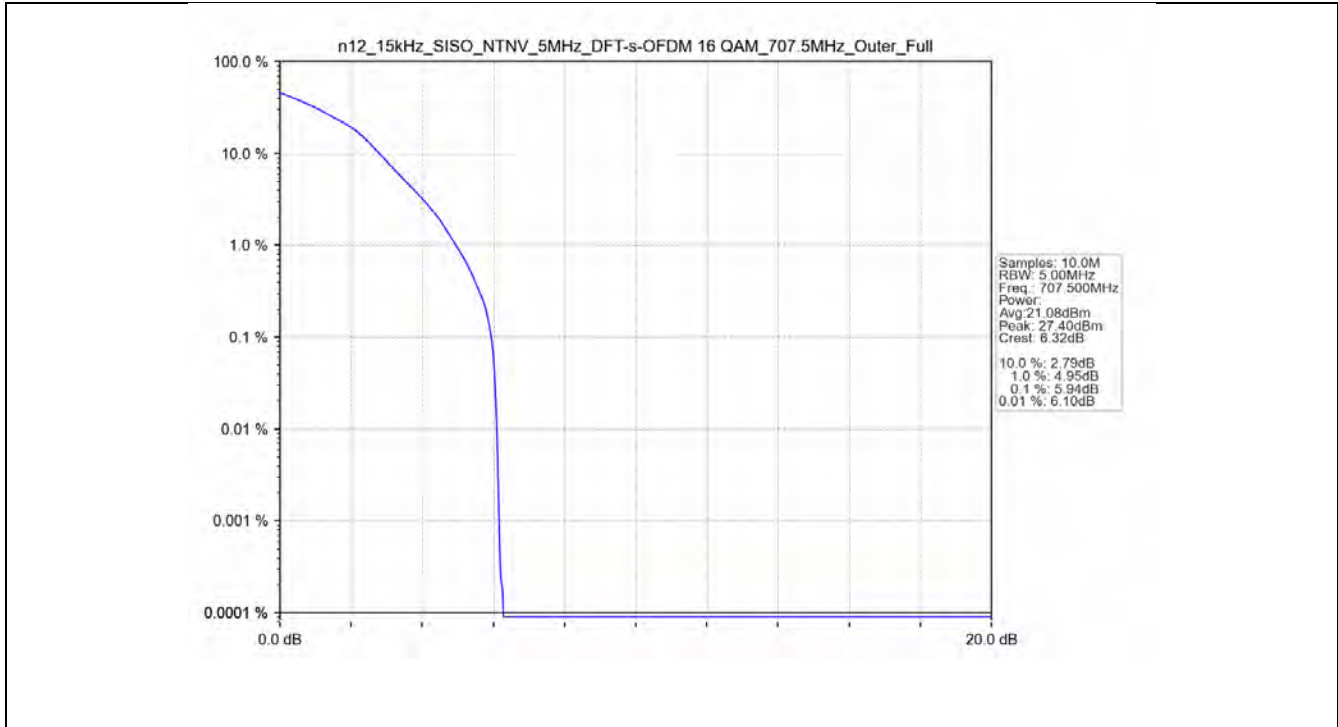


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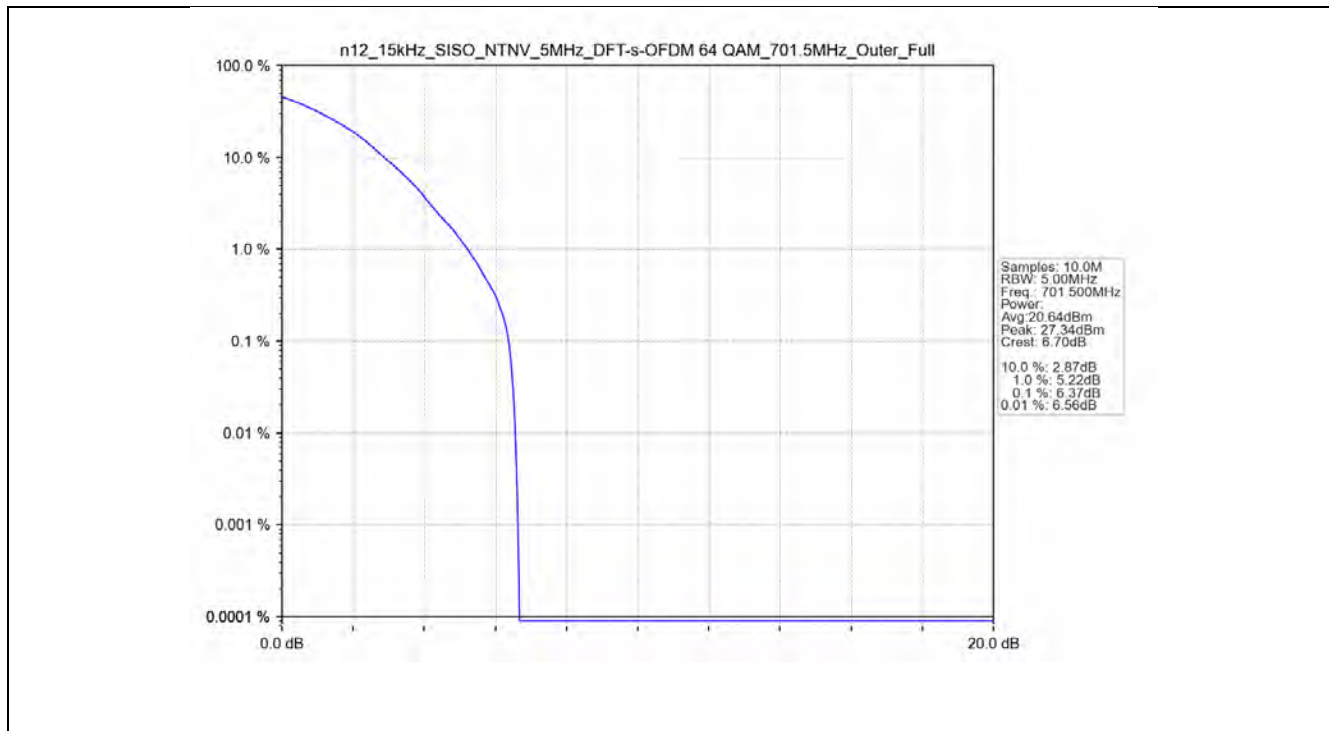
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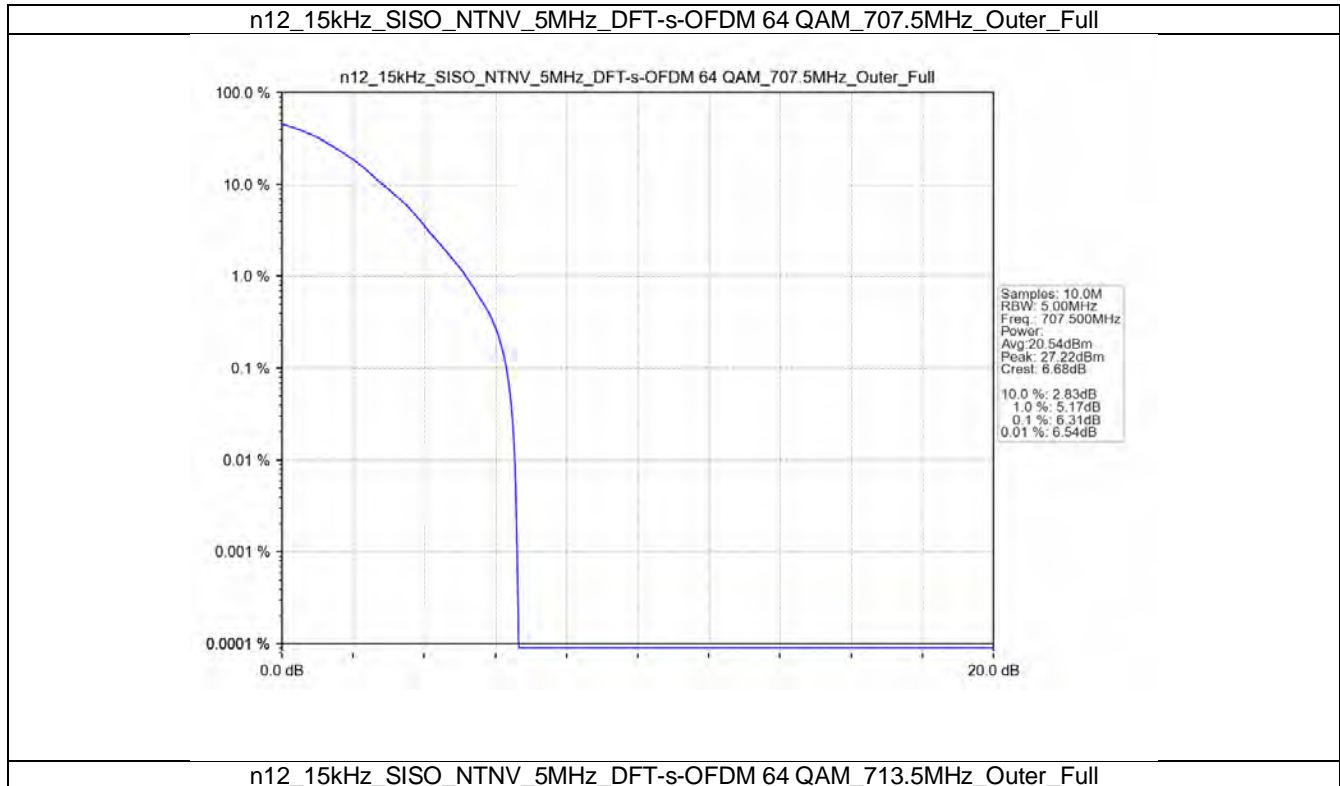


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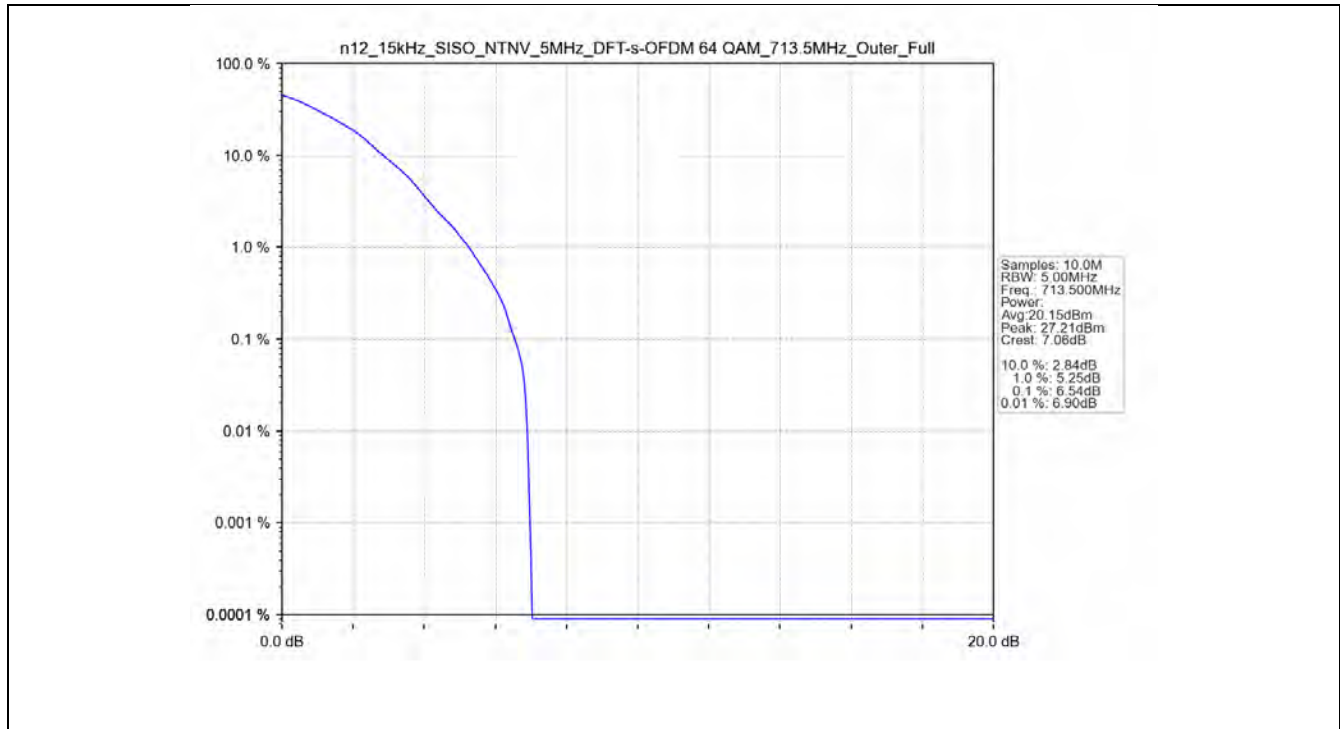


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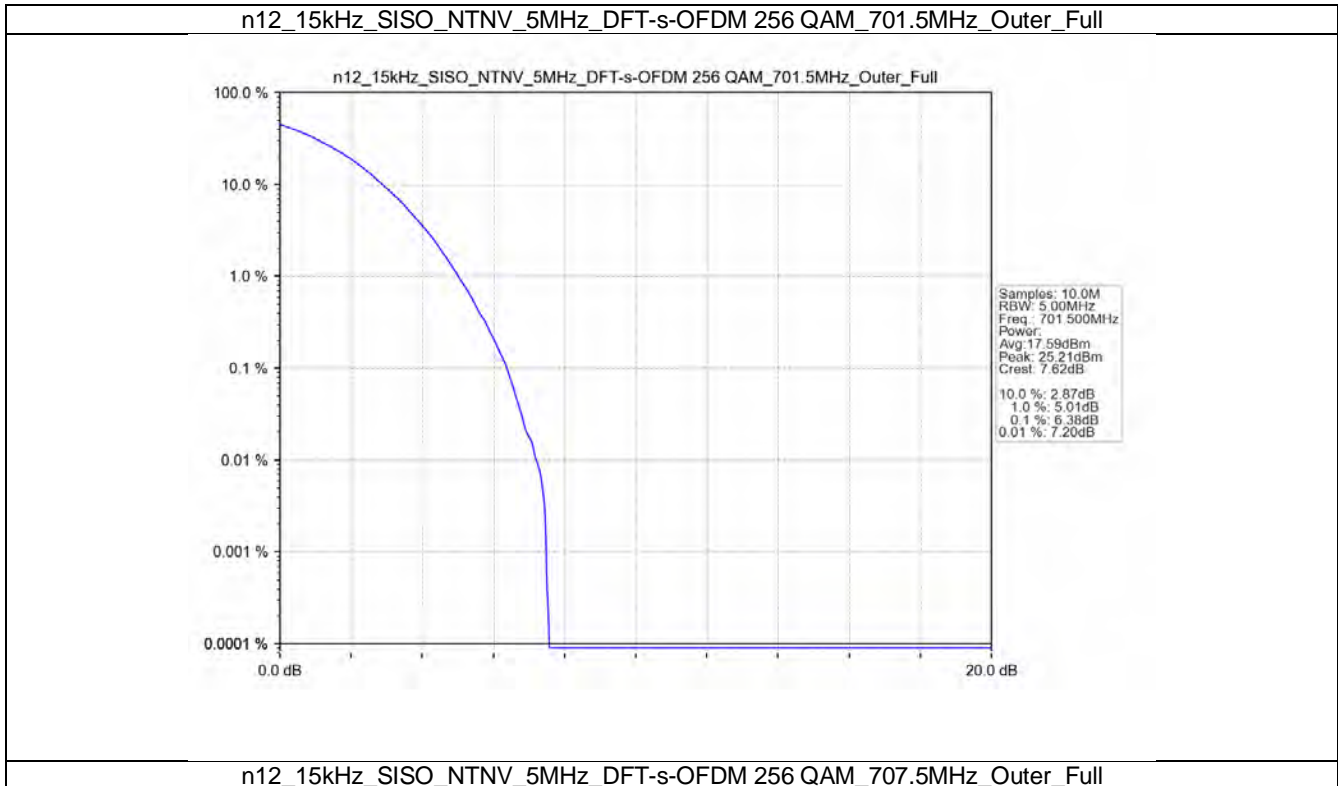


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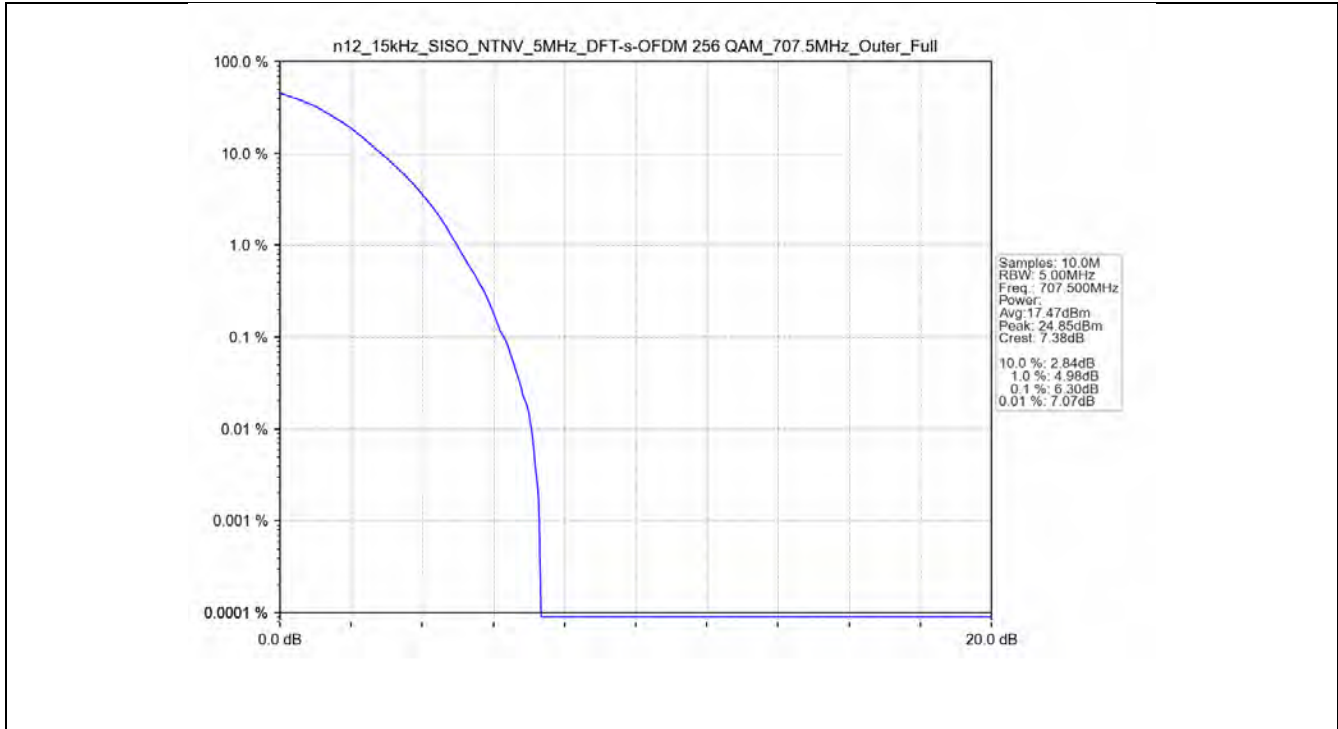


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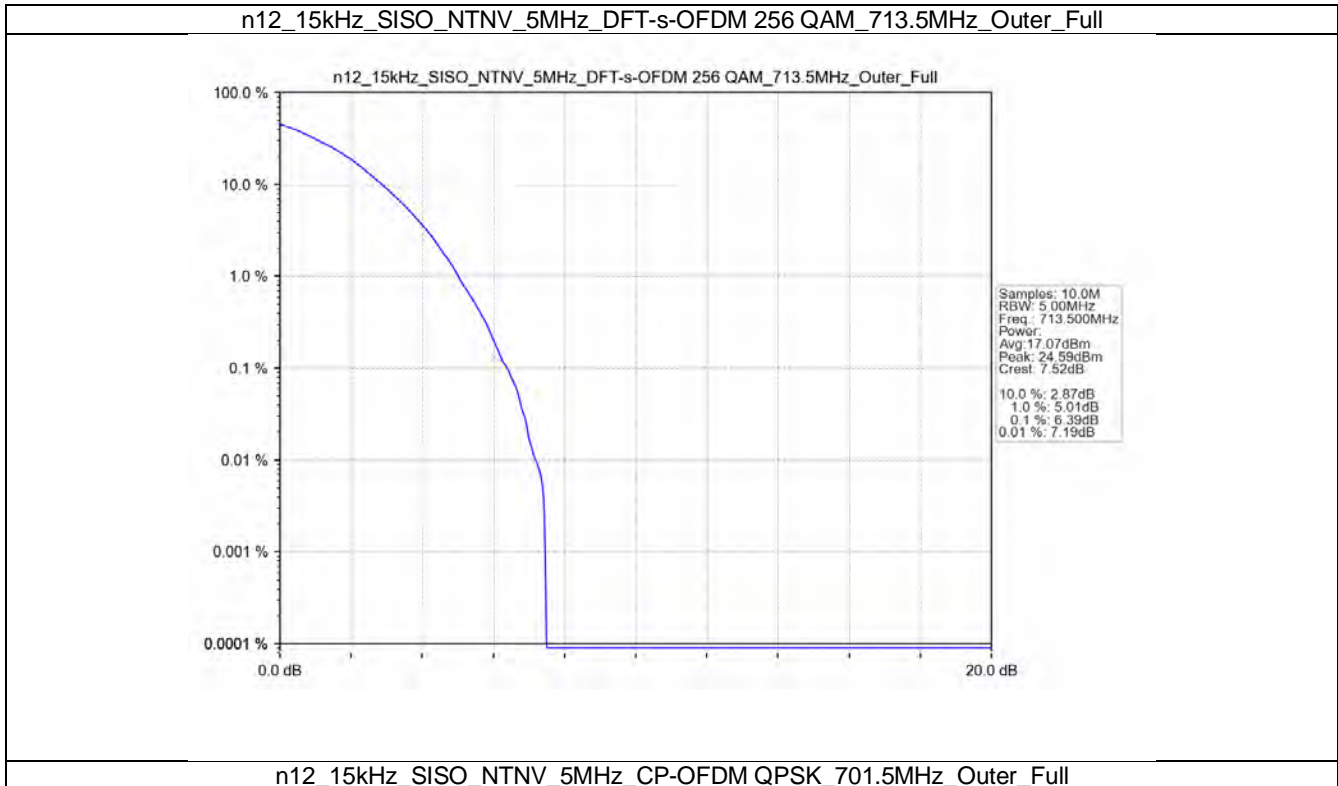


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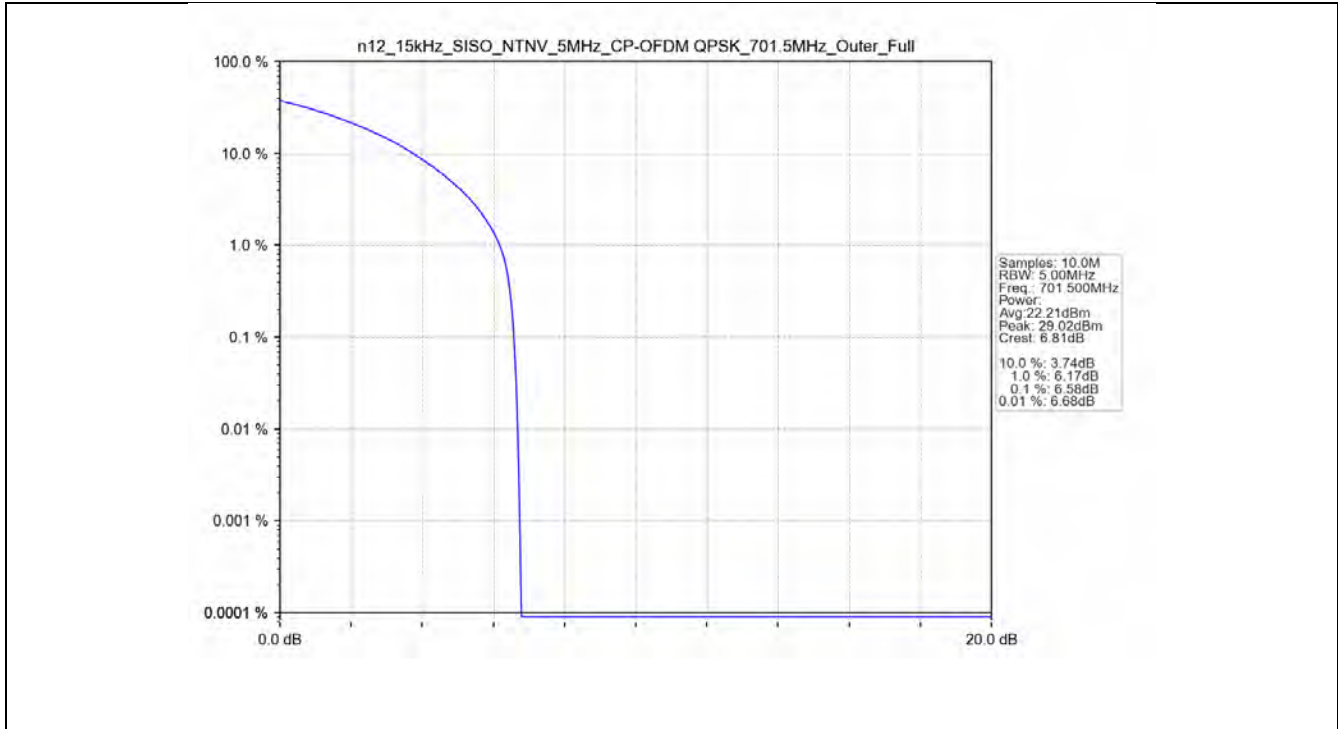


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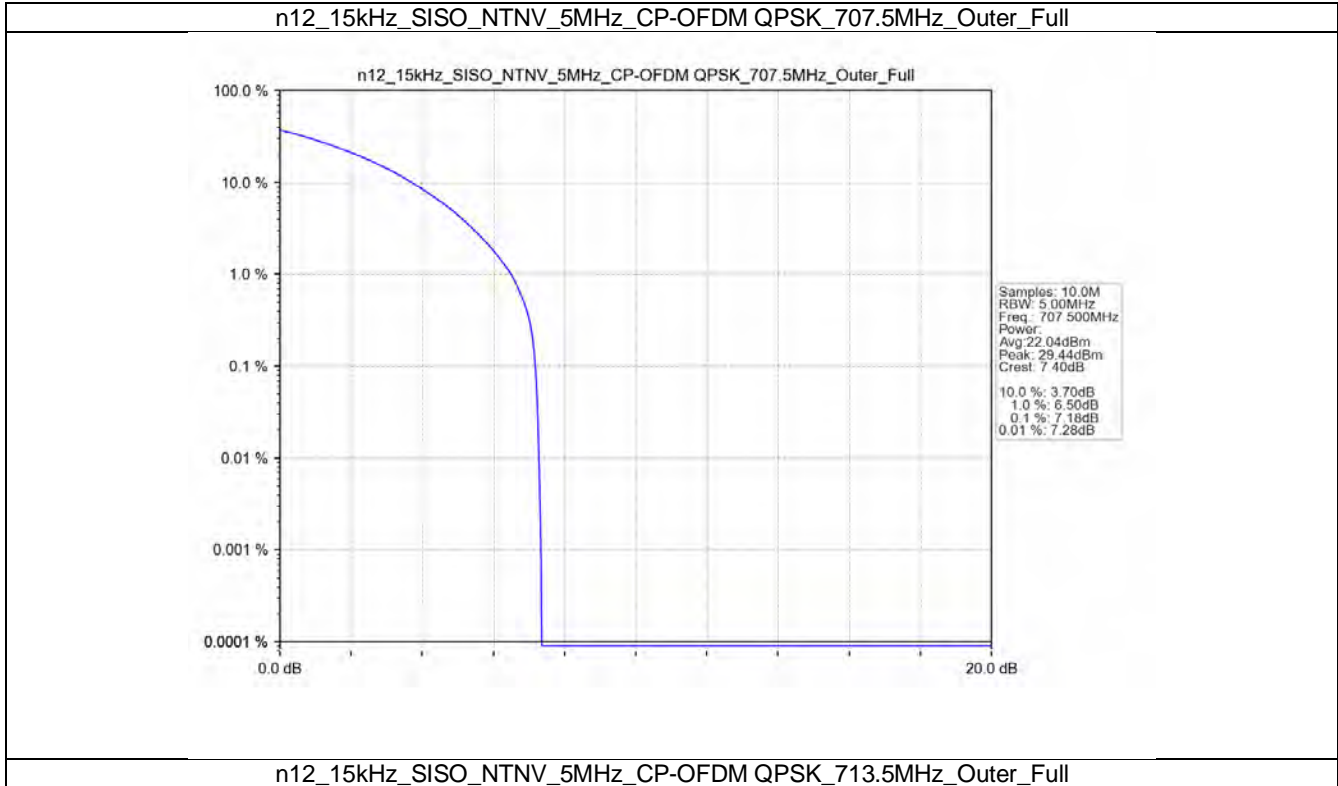


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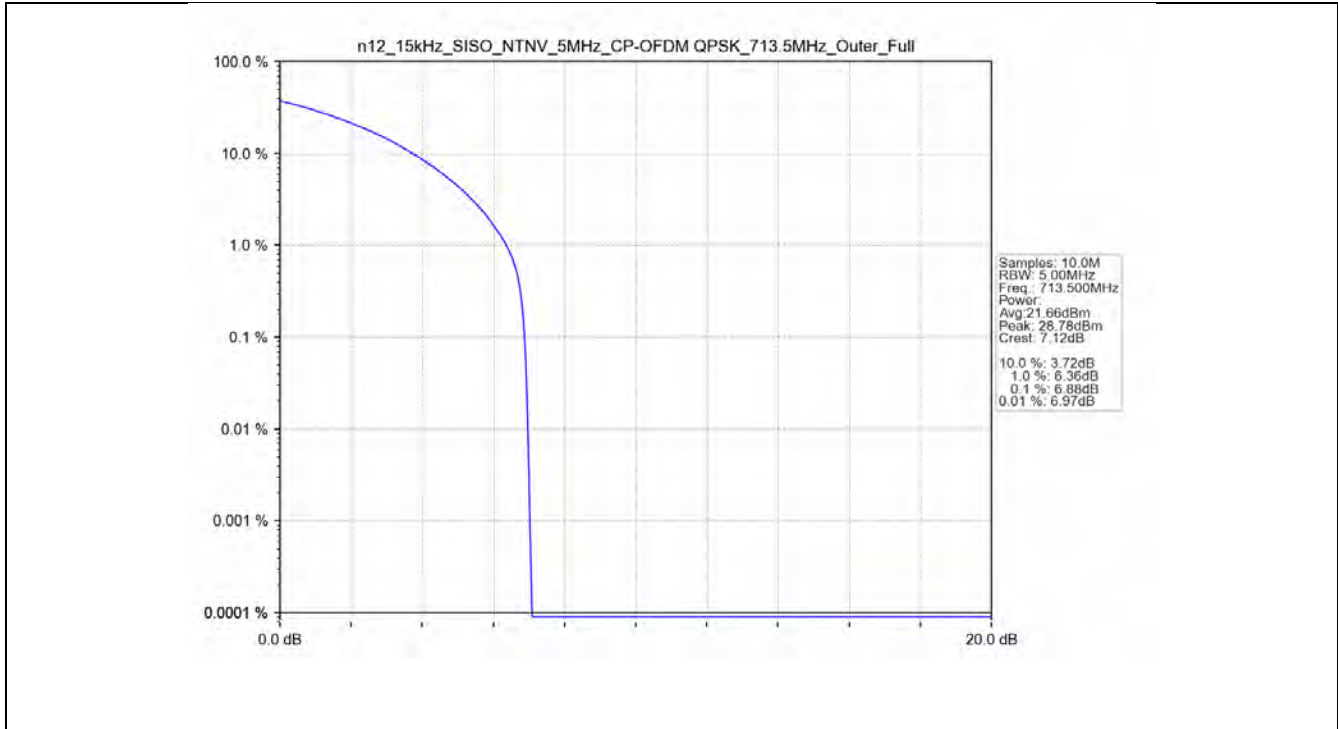


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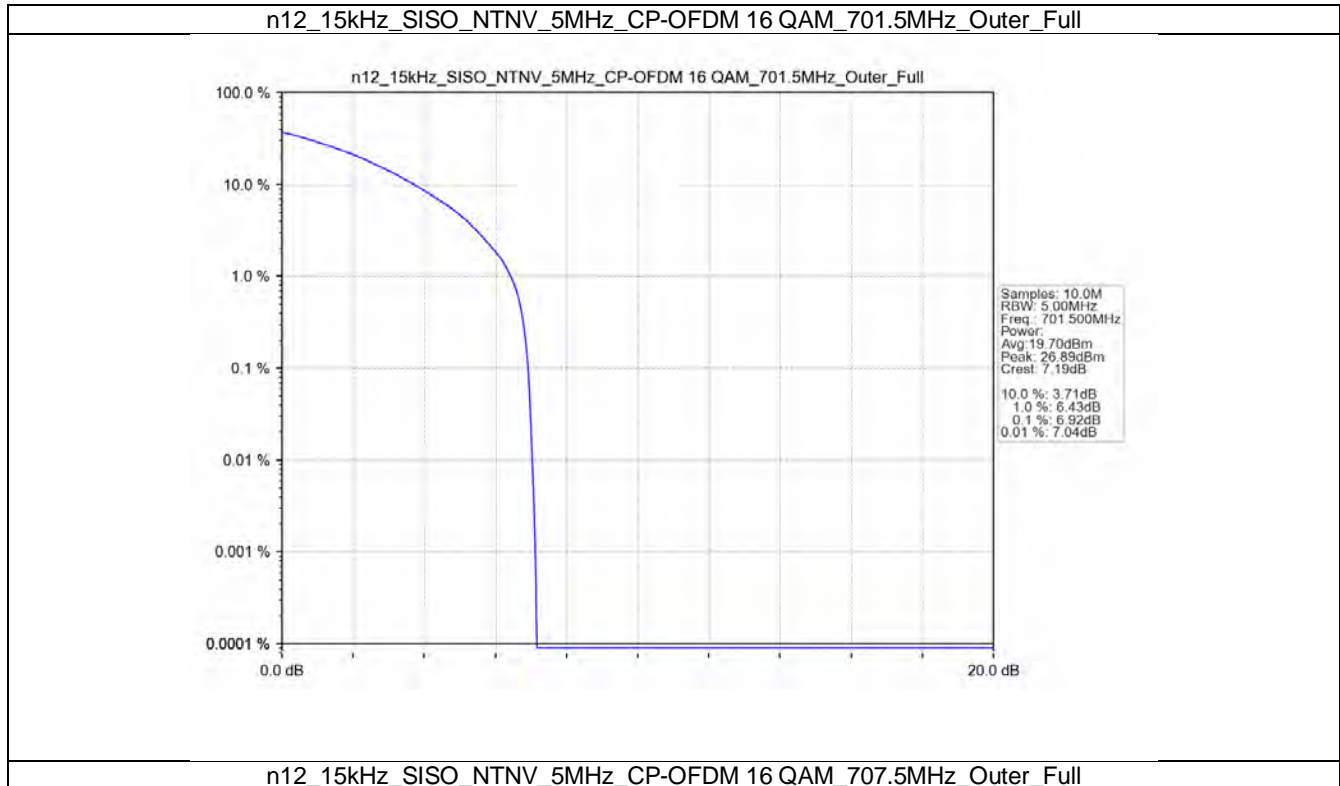


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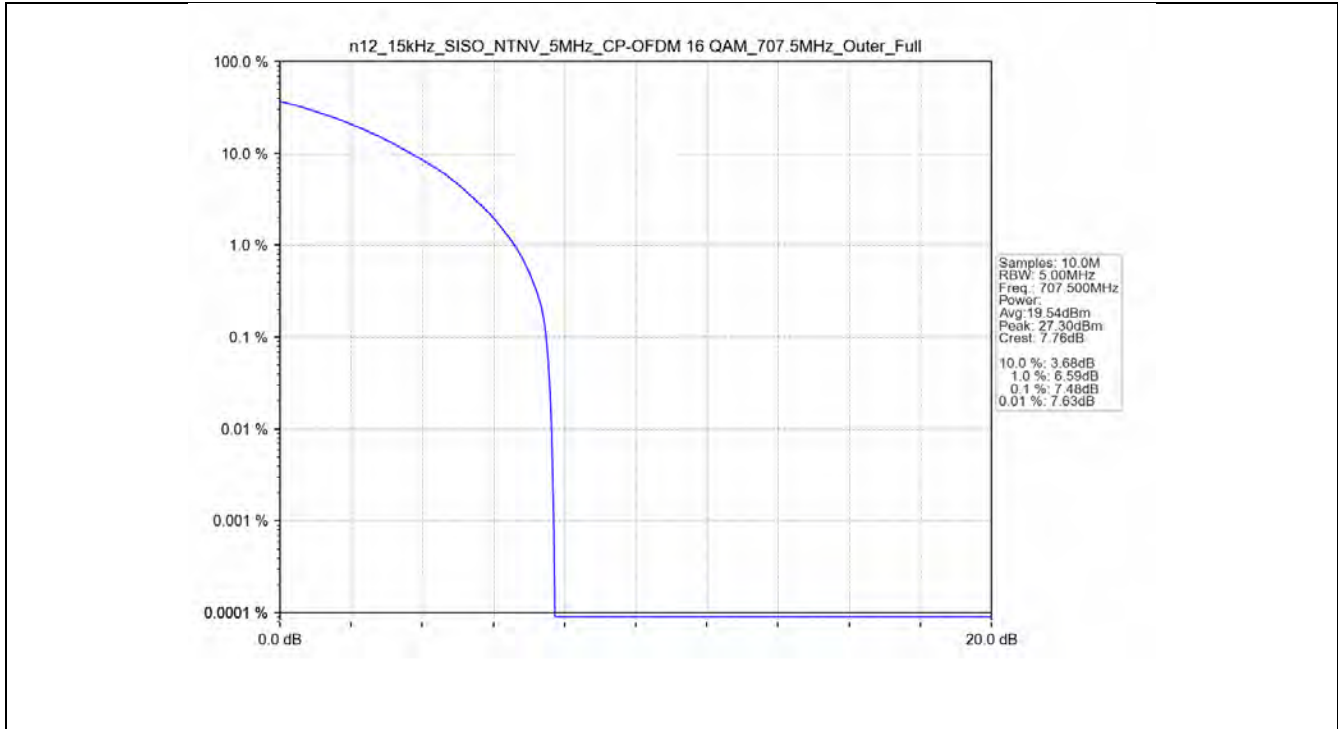


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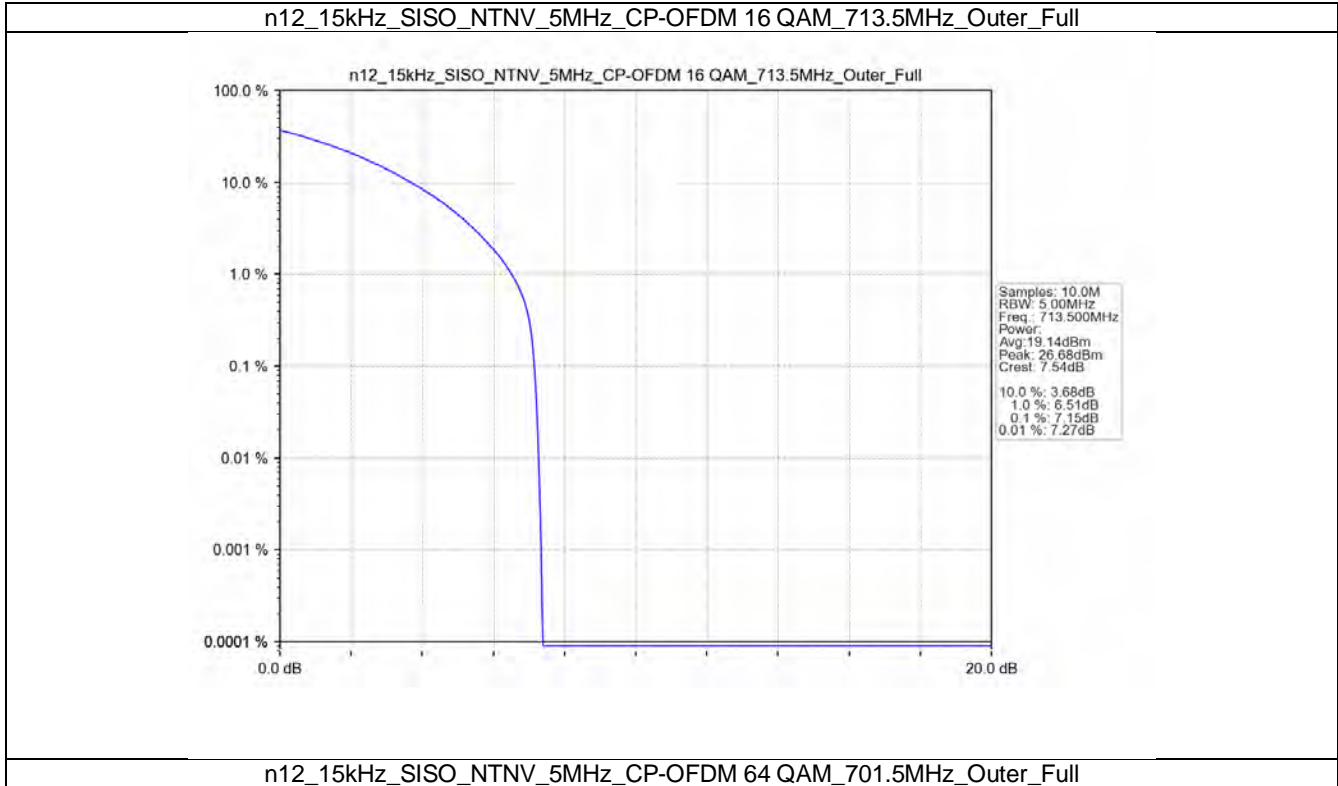


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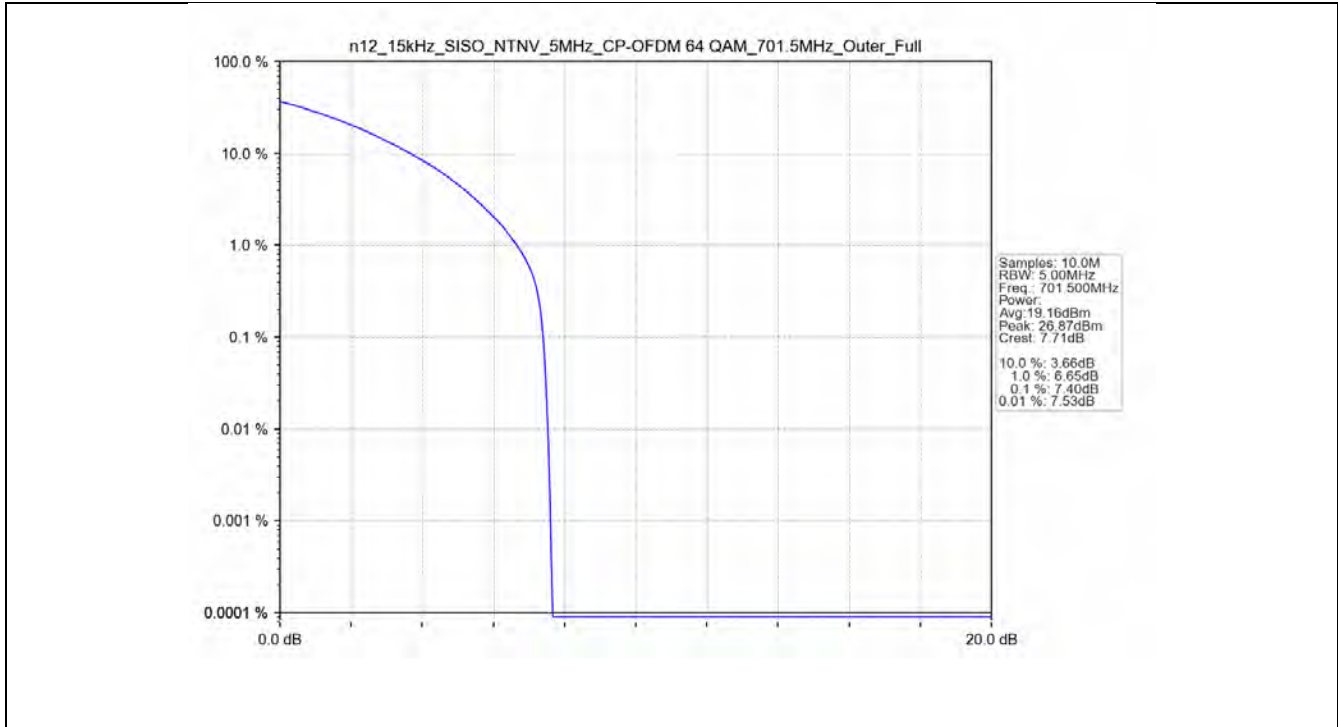


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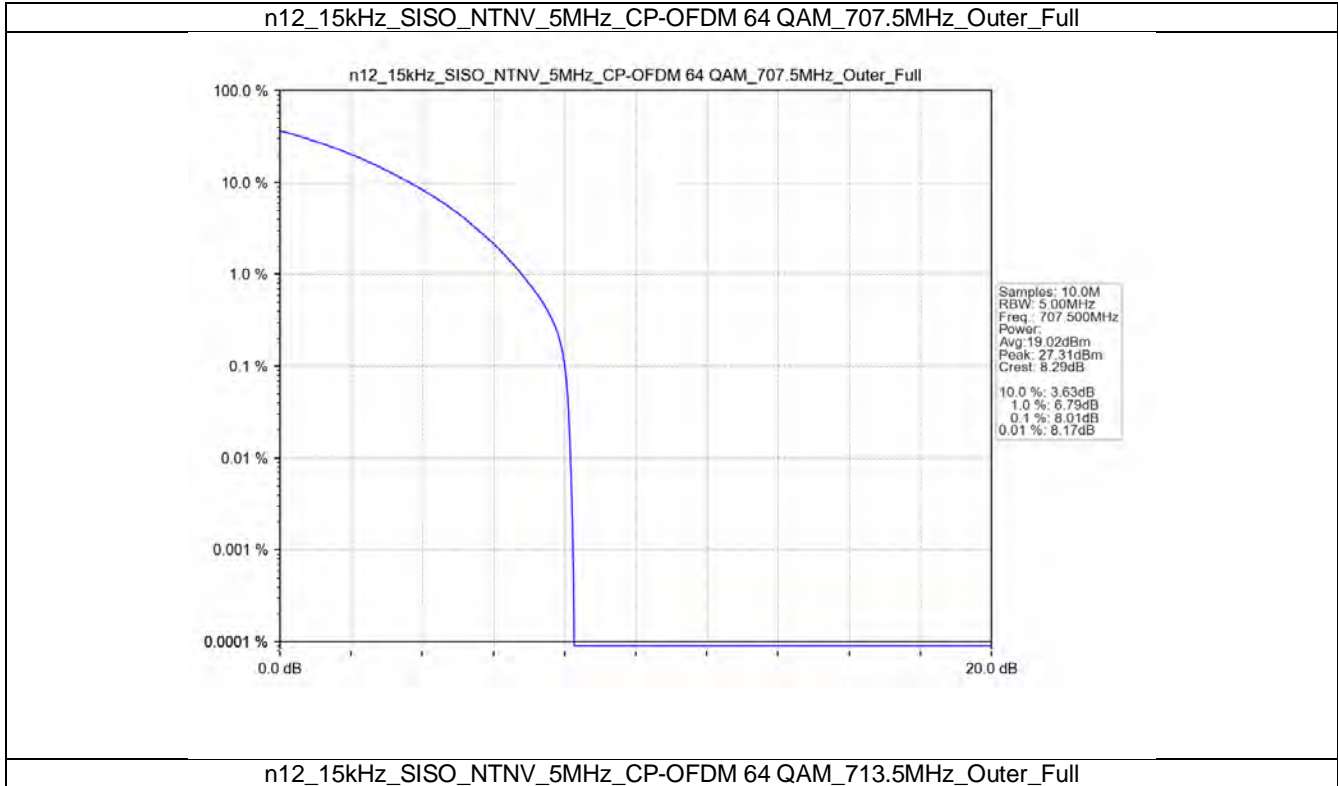


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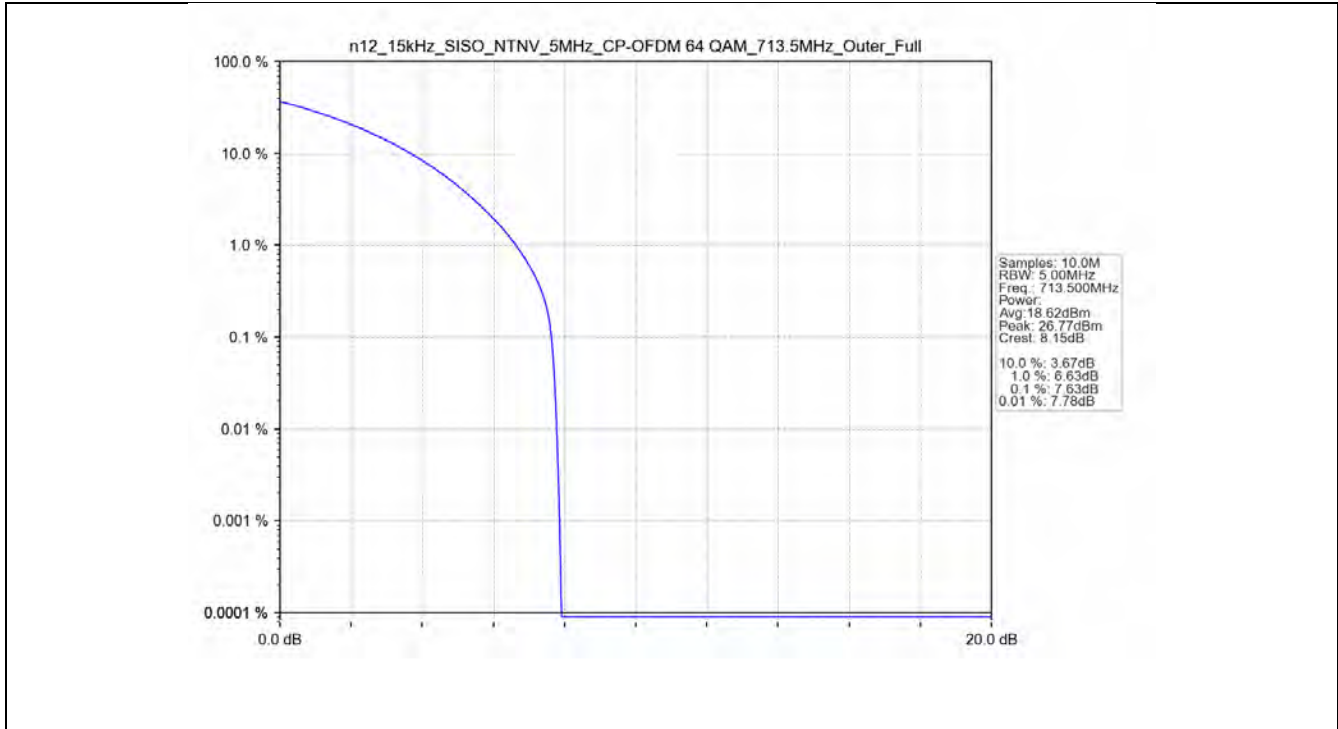


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4.2 15k_SISO_10MHz_NTNV

4.2.1 Test Result

5G NR n12 SCS=15kHz SISO 10MHz NNTV							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	704	Outer_Full	4.22	/	/	<=13	Pass
	707.5	Outer_Full	4.03	/	/	<=13	Pass
	711	Outer_Full	4.56	/	/	<=13	Pass
DFT-s-OFDM QPSK	704	Outer_Full	5.00	/	/	<=13	Pass
	707.5	Outer_Full	4.56	/	/	<=13	Pass
	711	Outer_Full	5.32	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	704	Outer_Full	6.02	/	/	<=13	Pass
	707.5	Outer_Full	5.68	/	/	<=13	Pass
	711	Outer_Full	6.26	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	704	Outer_Full	6.38	/	/	<=13	Pass
	707.5	Outer_Full	6.05	/	/	<=13	Pass
	711	Outer_Full	6.15	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	704	Outer_Full	6.50	/	/	<=13	Pass
	707.5	Outer_Full	6.45	/	/	<=13	Pass
	711	Outer_Full	6.60	/	/	<=13	Pass
CP-OFDM QPSK	704	Outer_Full	6.99	/	/	<=13	Pass
	707.5	Outer_Full	7.11	/	/	<=13	Pass
	711	Outer_Full	7.18	/	/	<=13	Pass
CP-OFDM 16 QAM	704	Outer_Full	7.18	/	/	<=13	Pass
	707.5	Outer_Full	7.25	/	/	<=13	Pass
	711	Outer_Full	7.23	/	/	<=13	Pass
CP-OFDM 64 QAM	704	Outer_Full	7.61	/	/	<=13	Pass
	707.5	Outer_Full	7.65	/	/	<=13	Pass
	711	Outer_Full	7.65	/	/	<=13	Pass
CP-OFDM 256 QAM	704	Outer_Full	8.55	/	/	<=13	Pass
	707.5	Outer_Full	8.60	/	/	<=13	Pass
	711	Outer_Full	8.55	/	/	<=13	Pass



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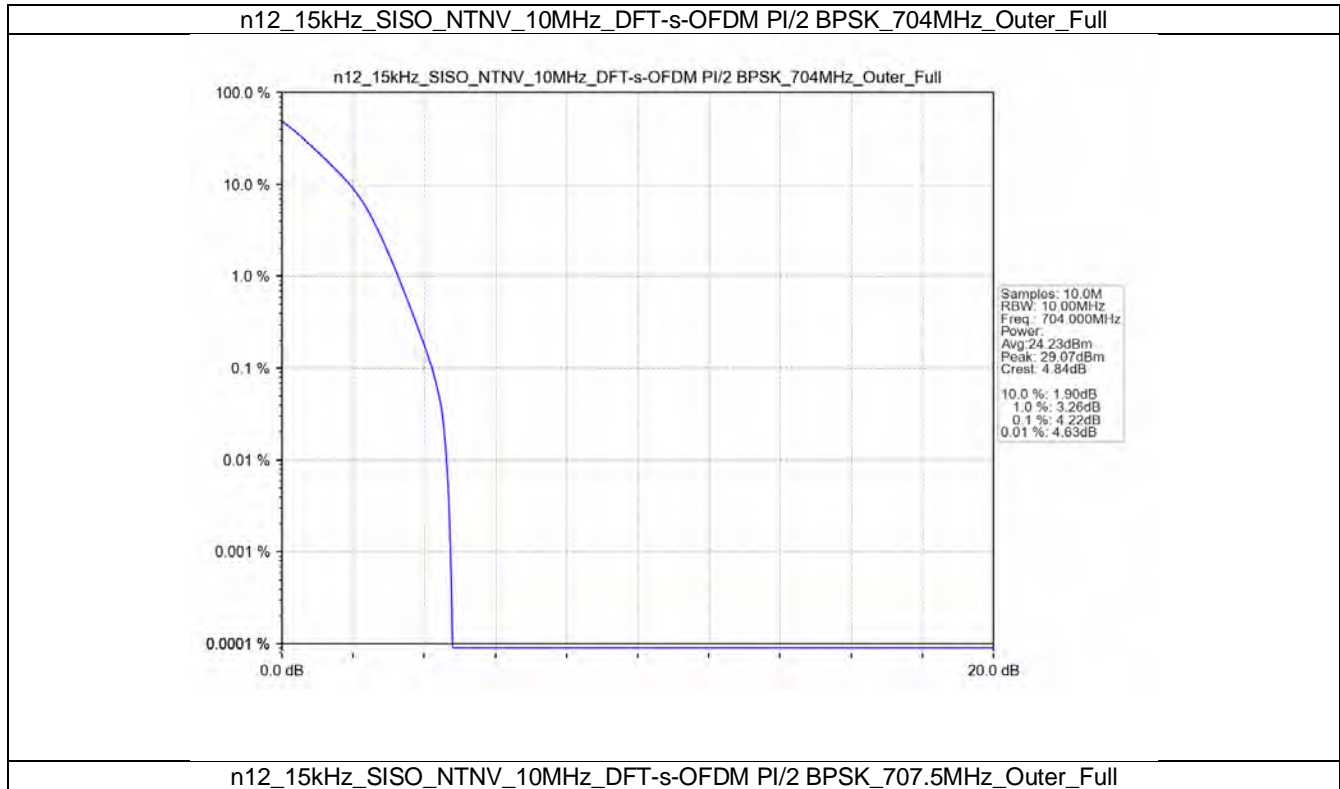


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4.2.2 Test Graph



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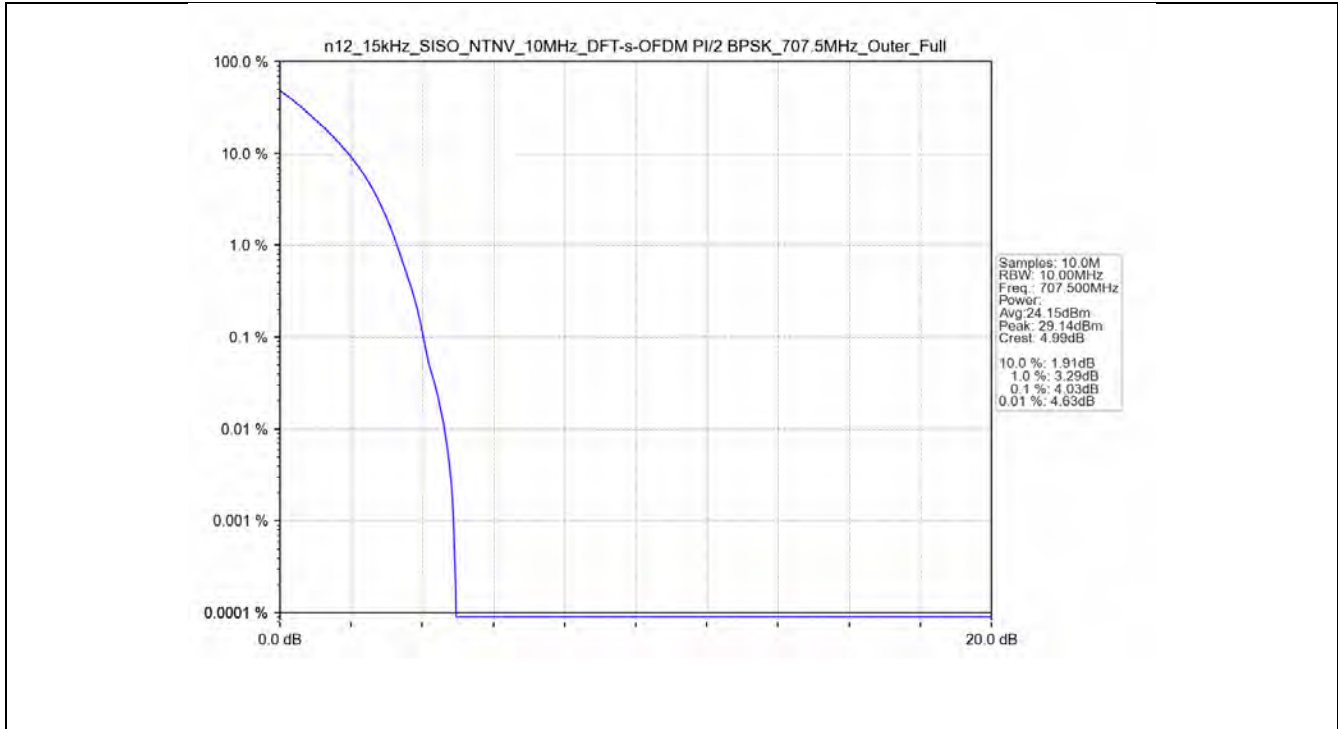


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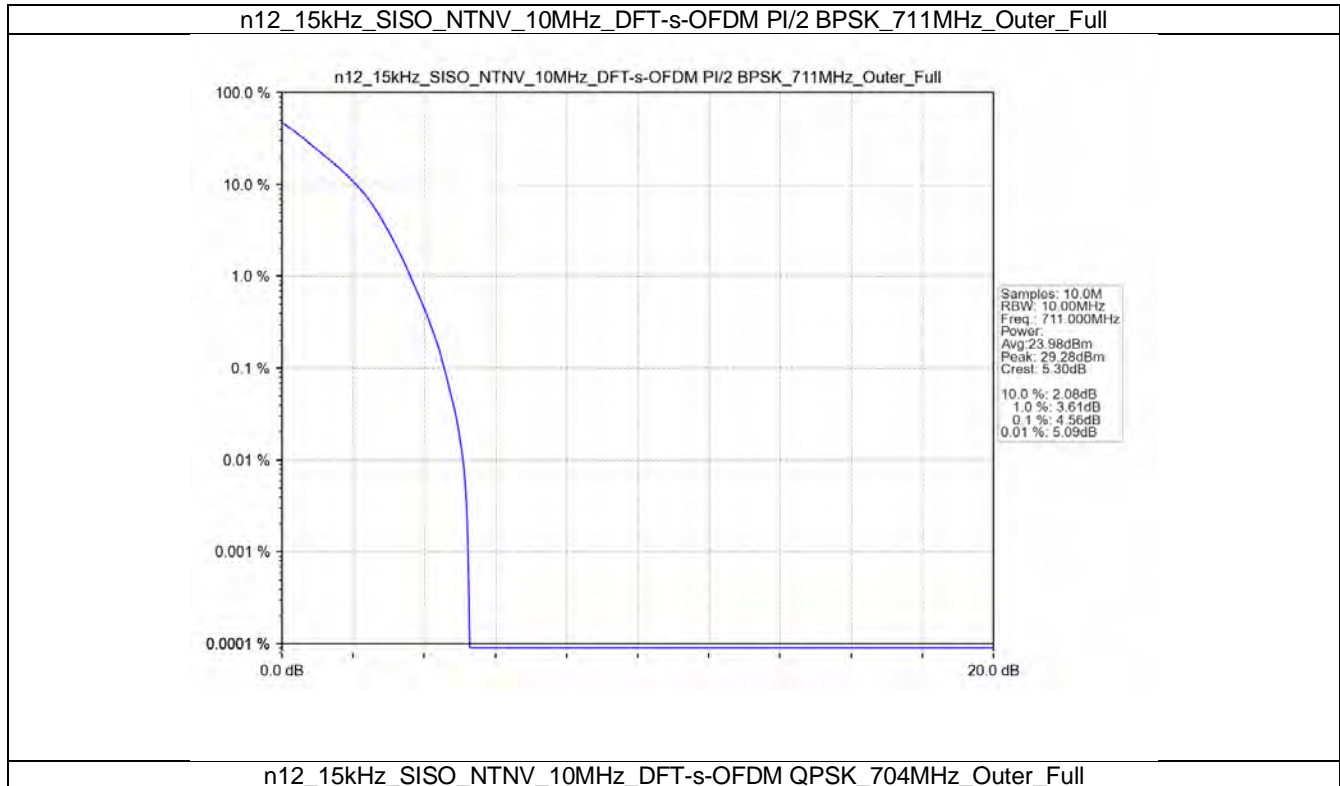


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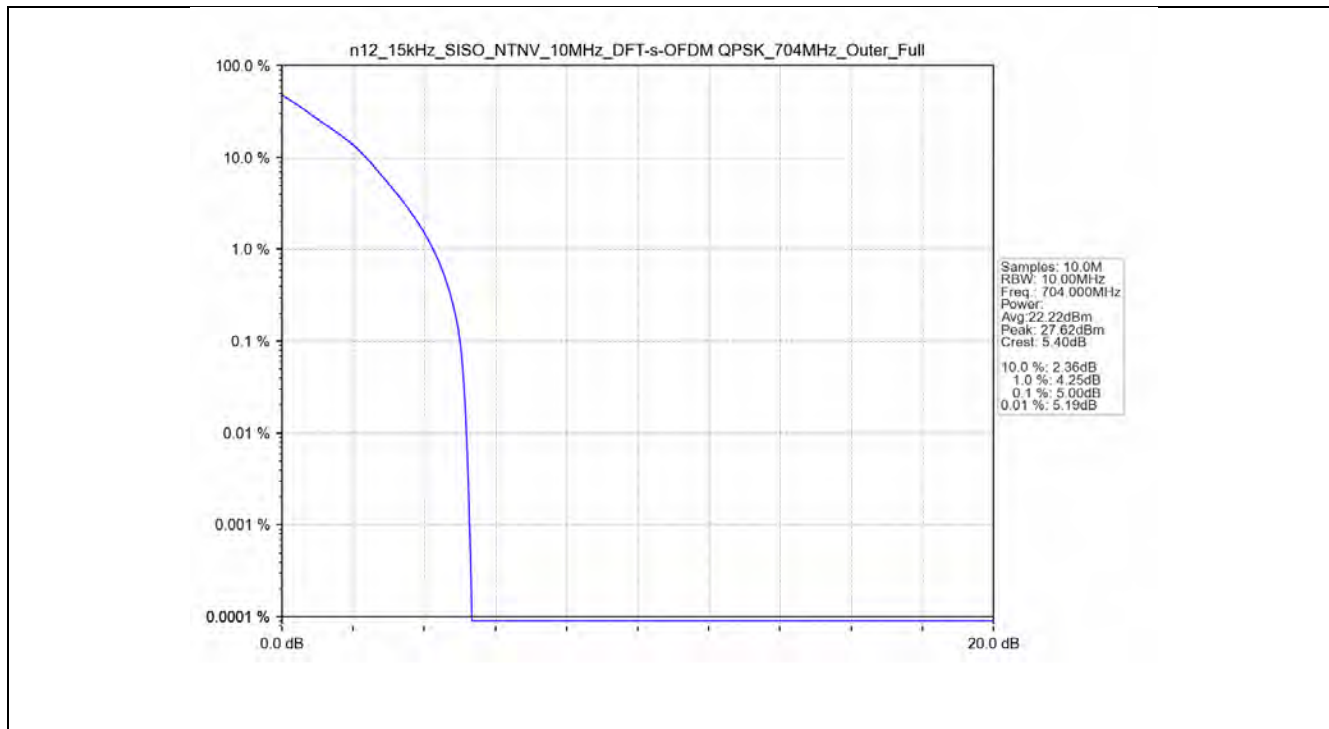
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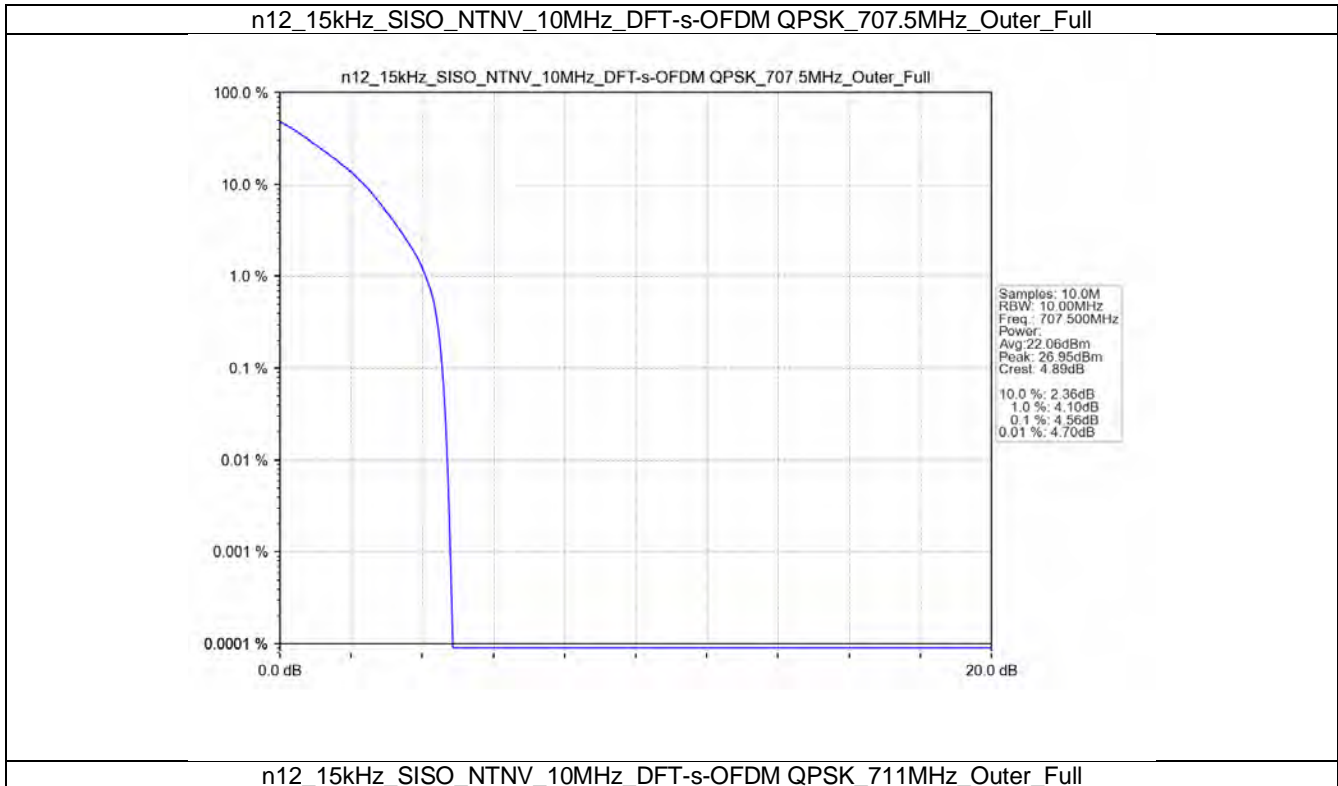


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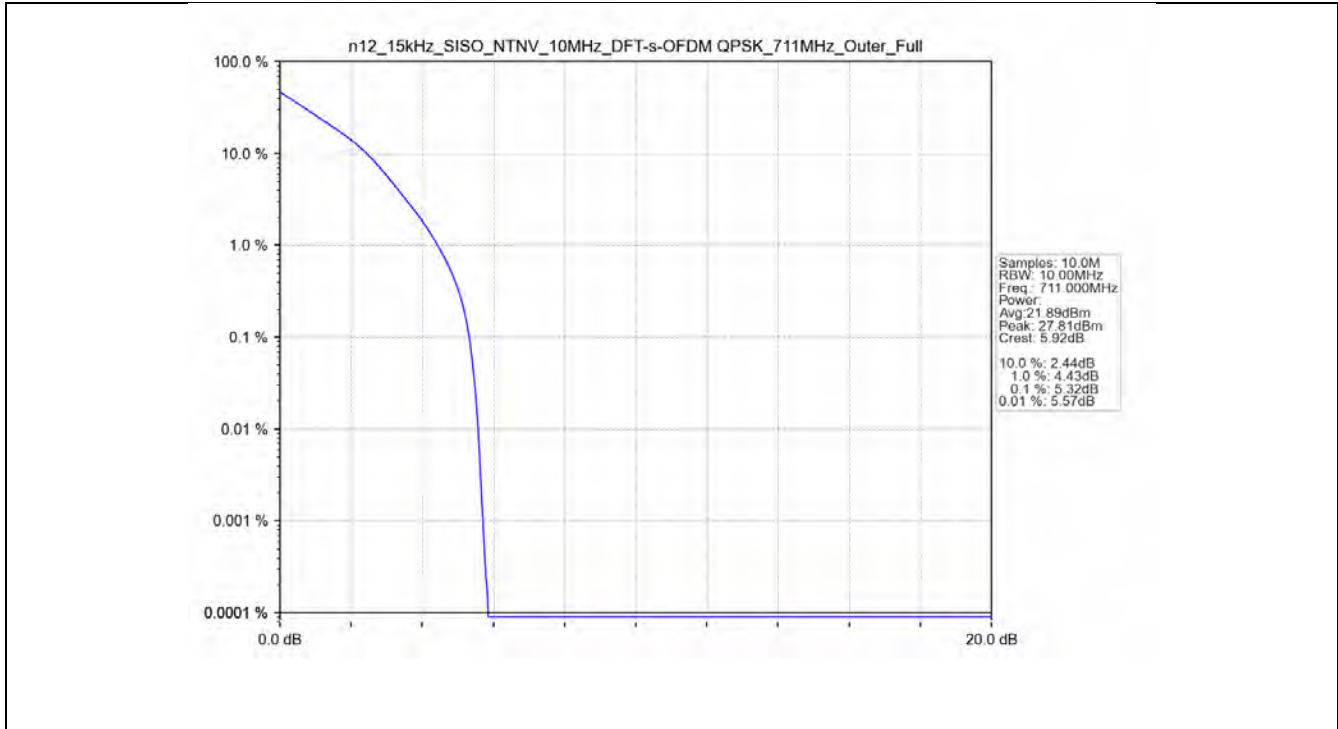


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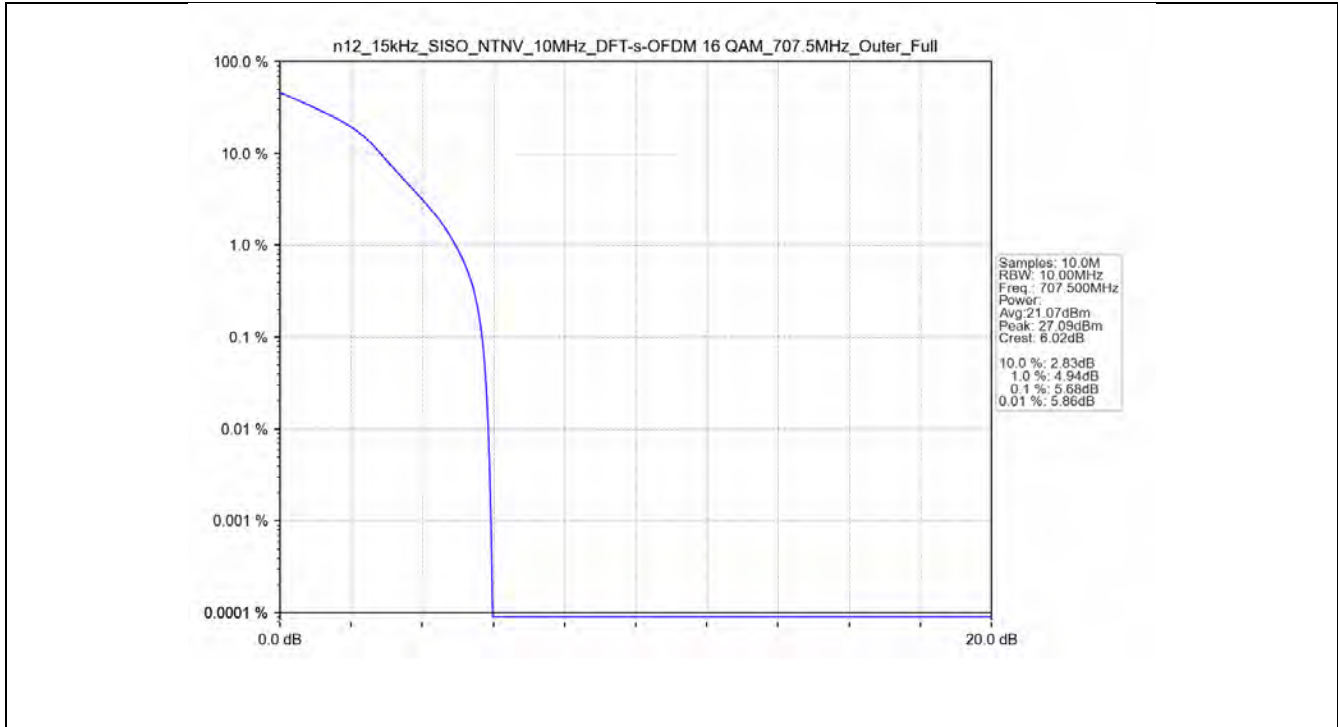


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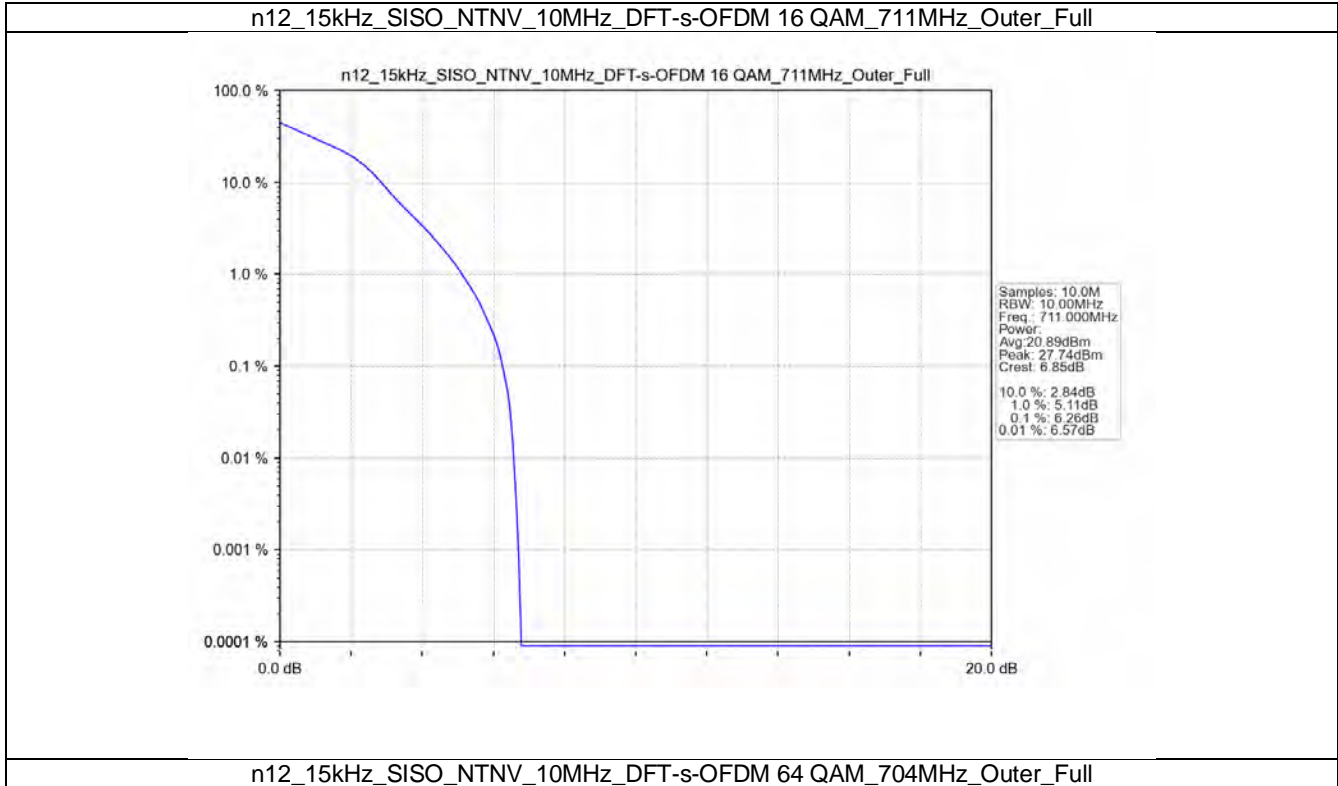


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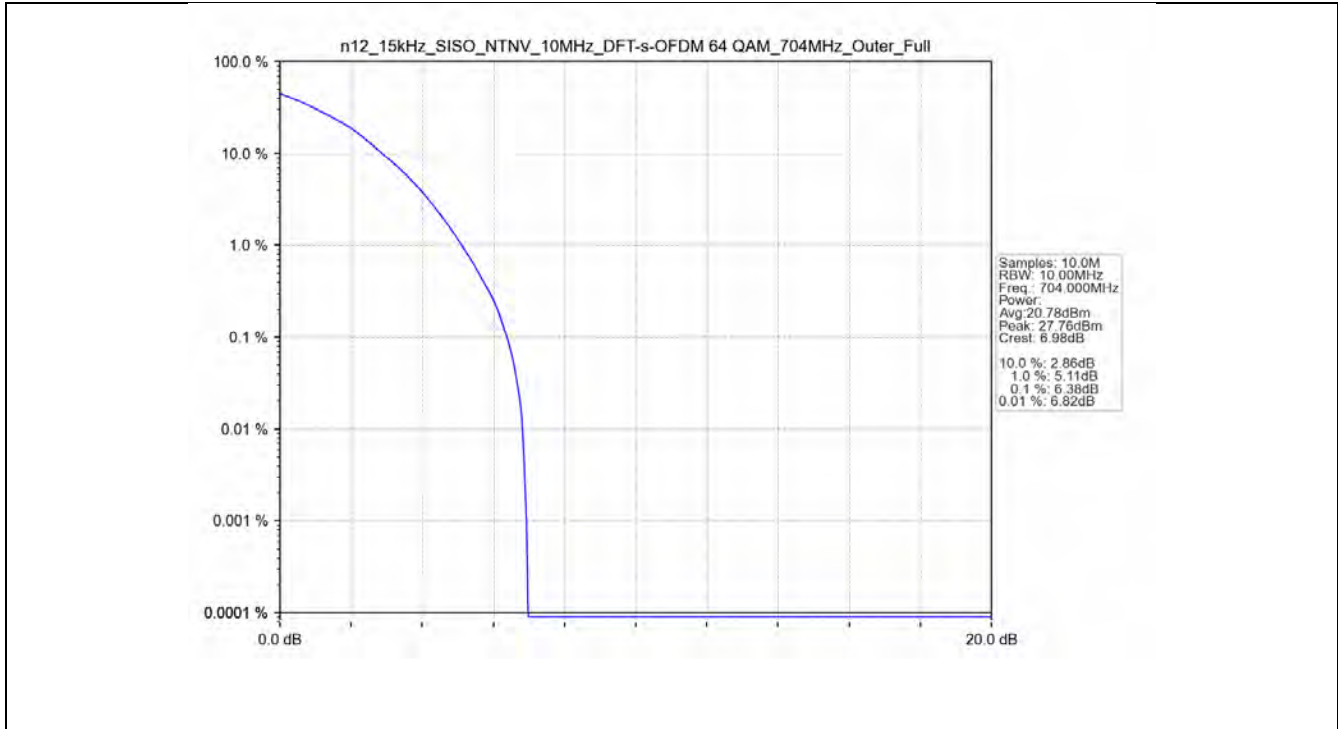


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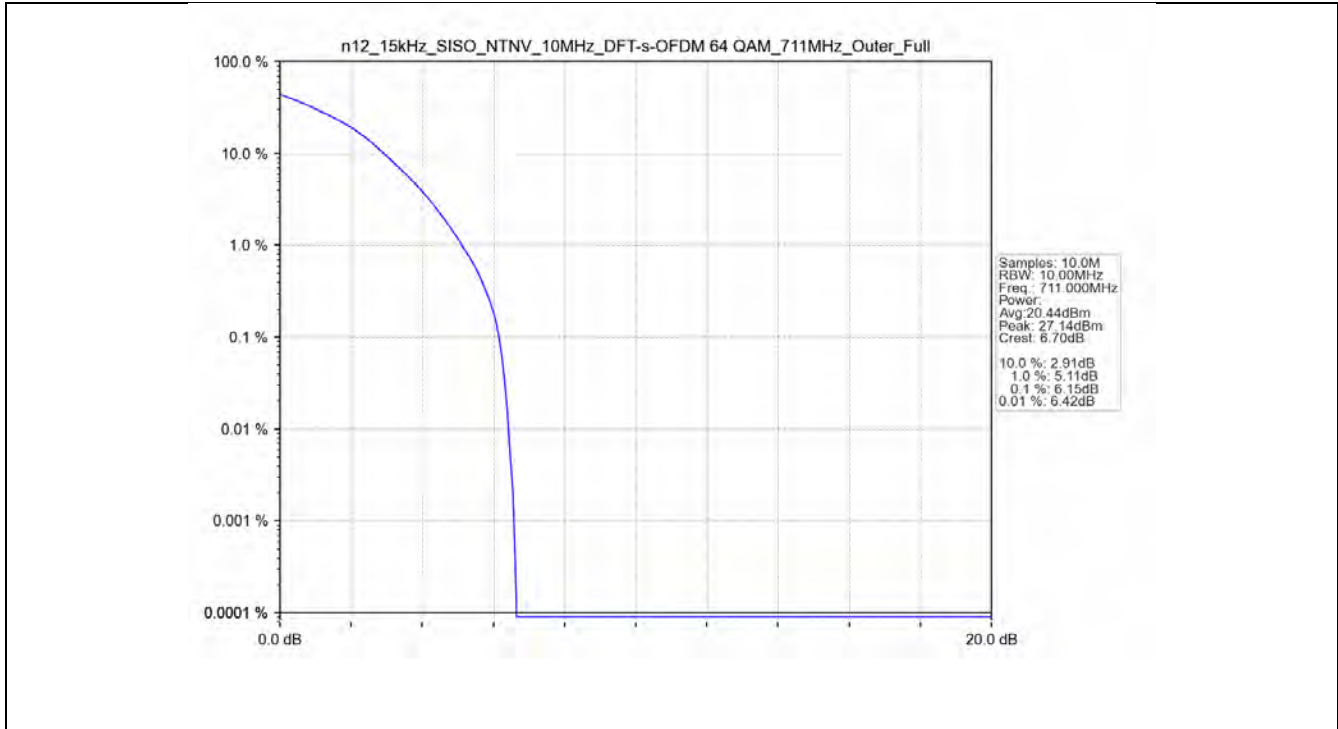


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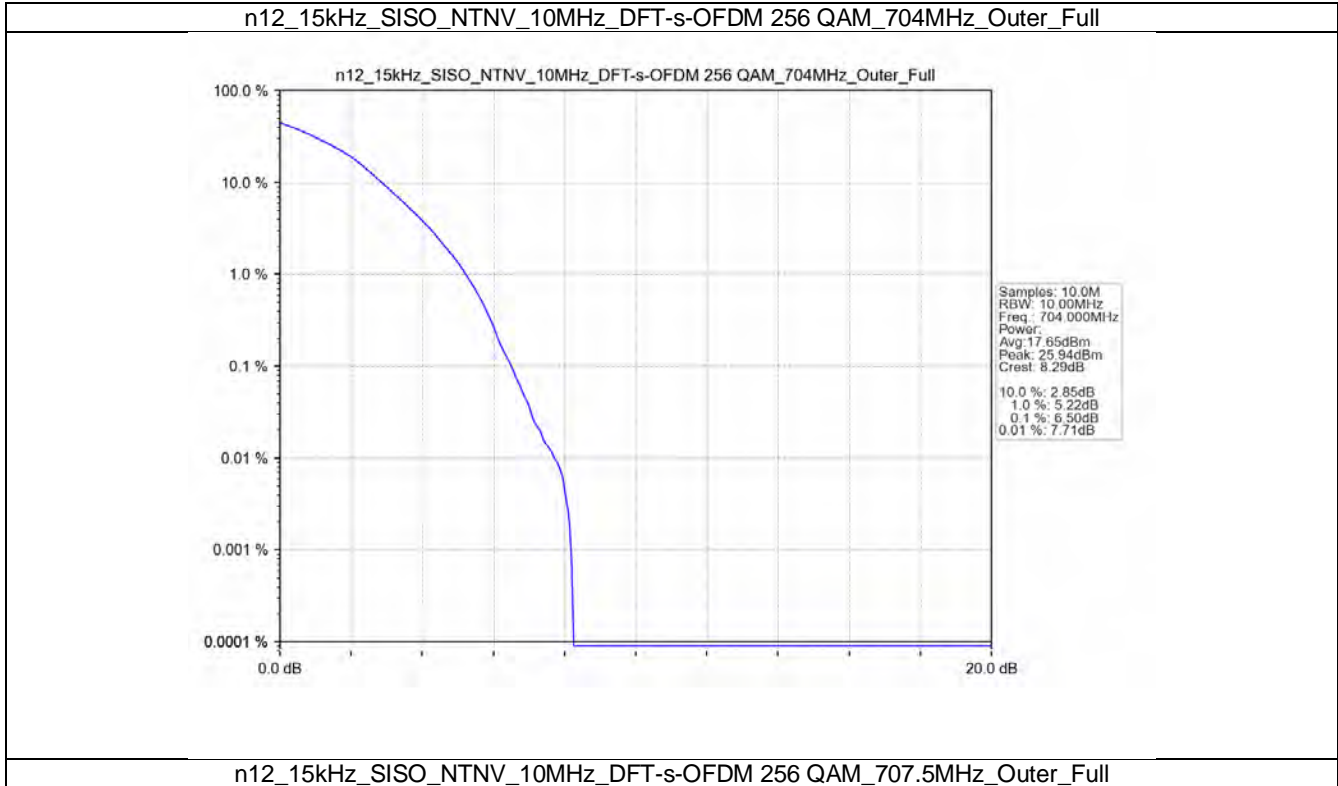


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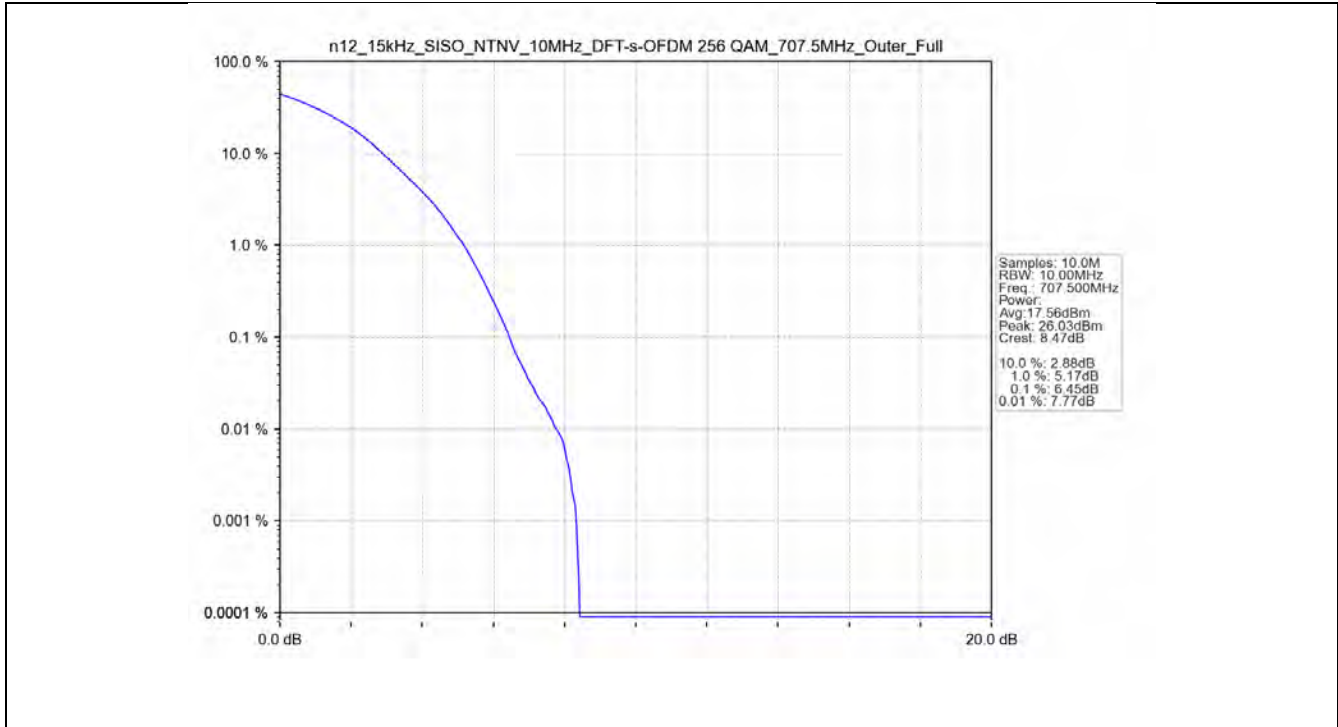


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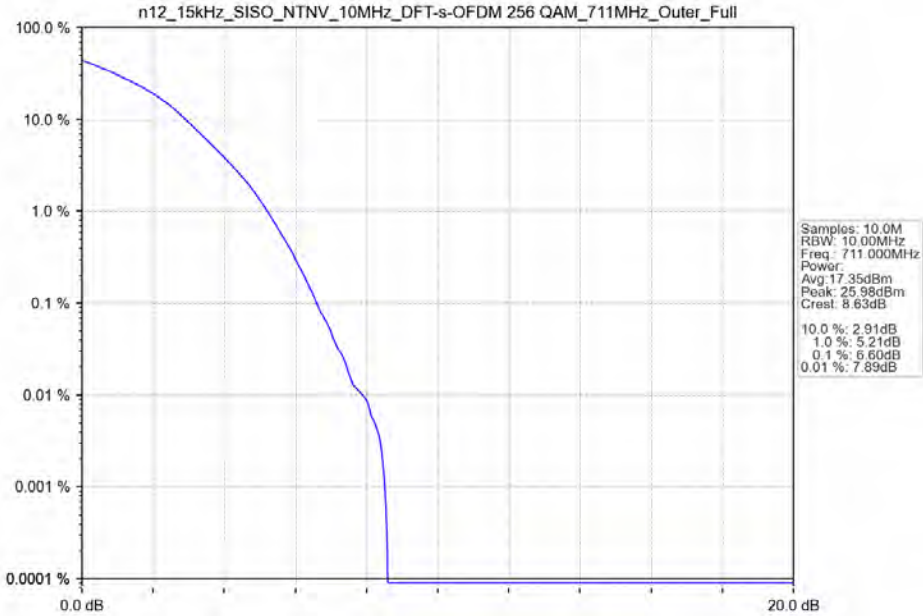
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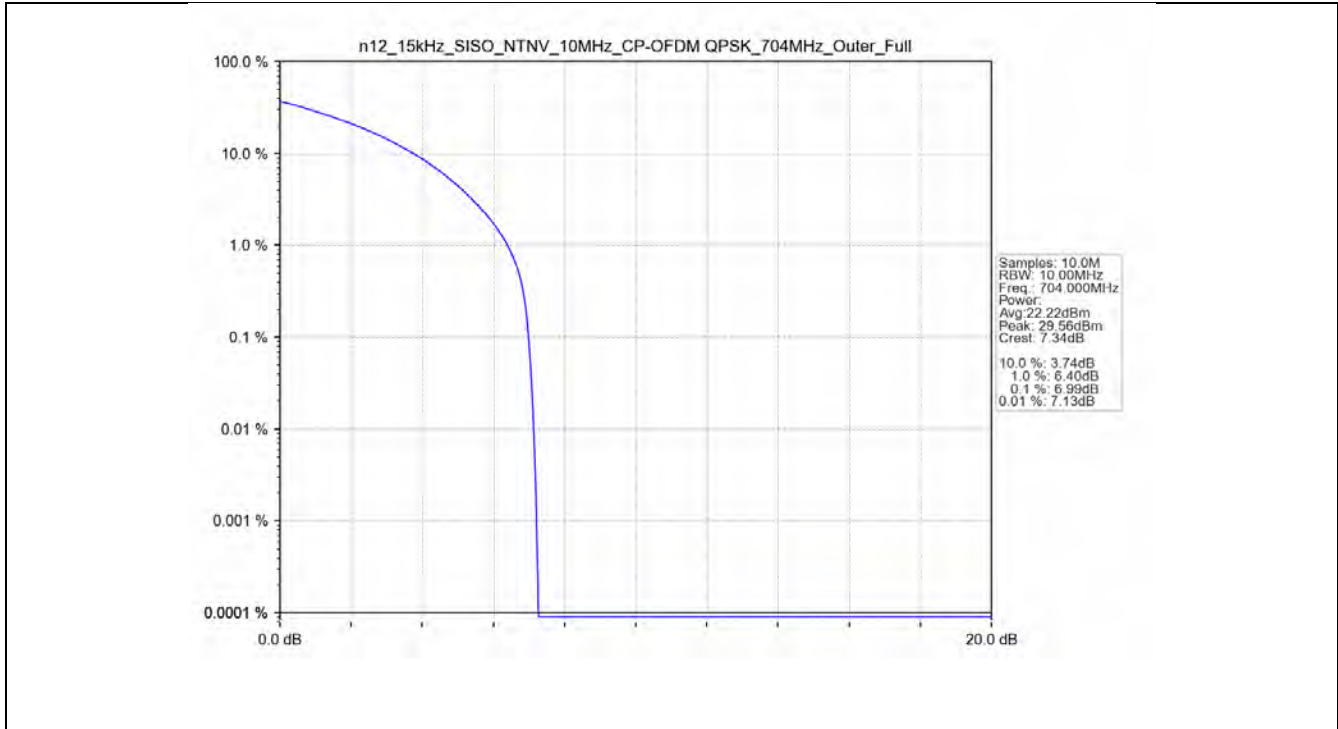


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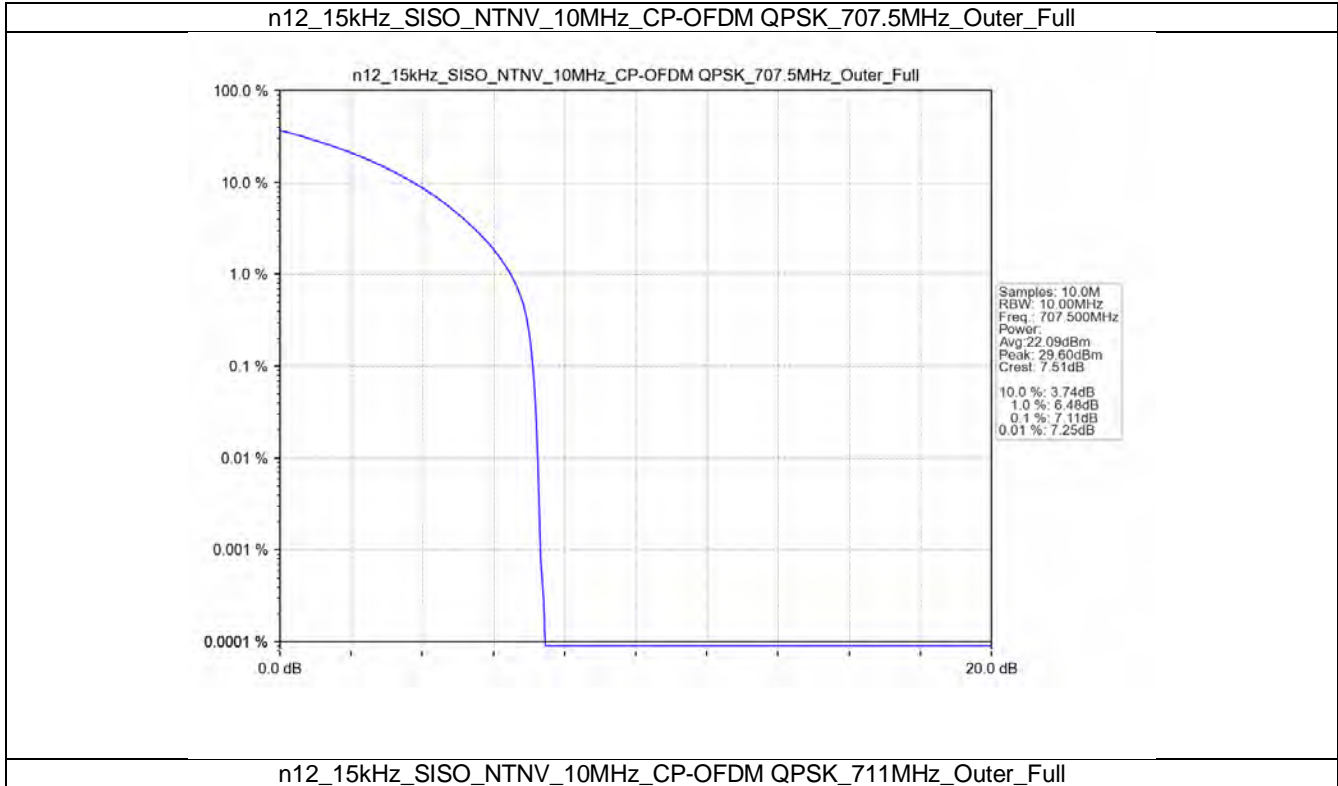


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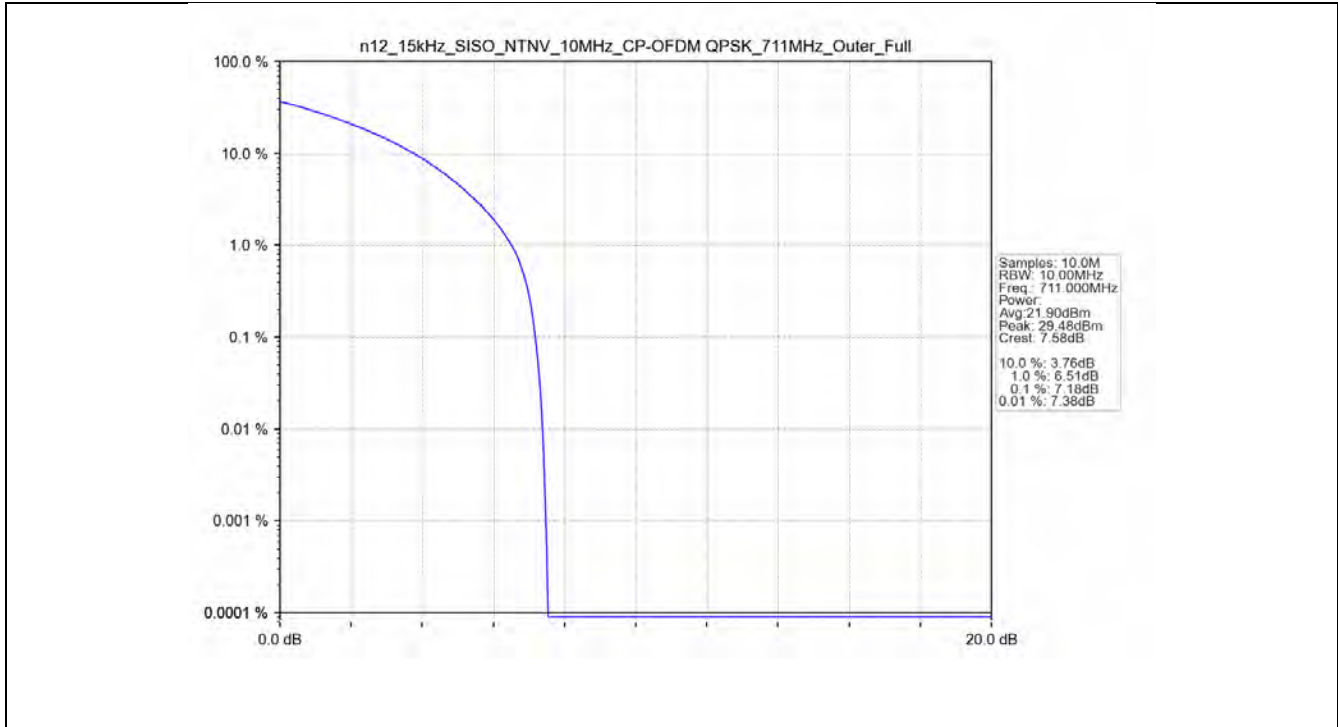


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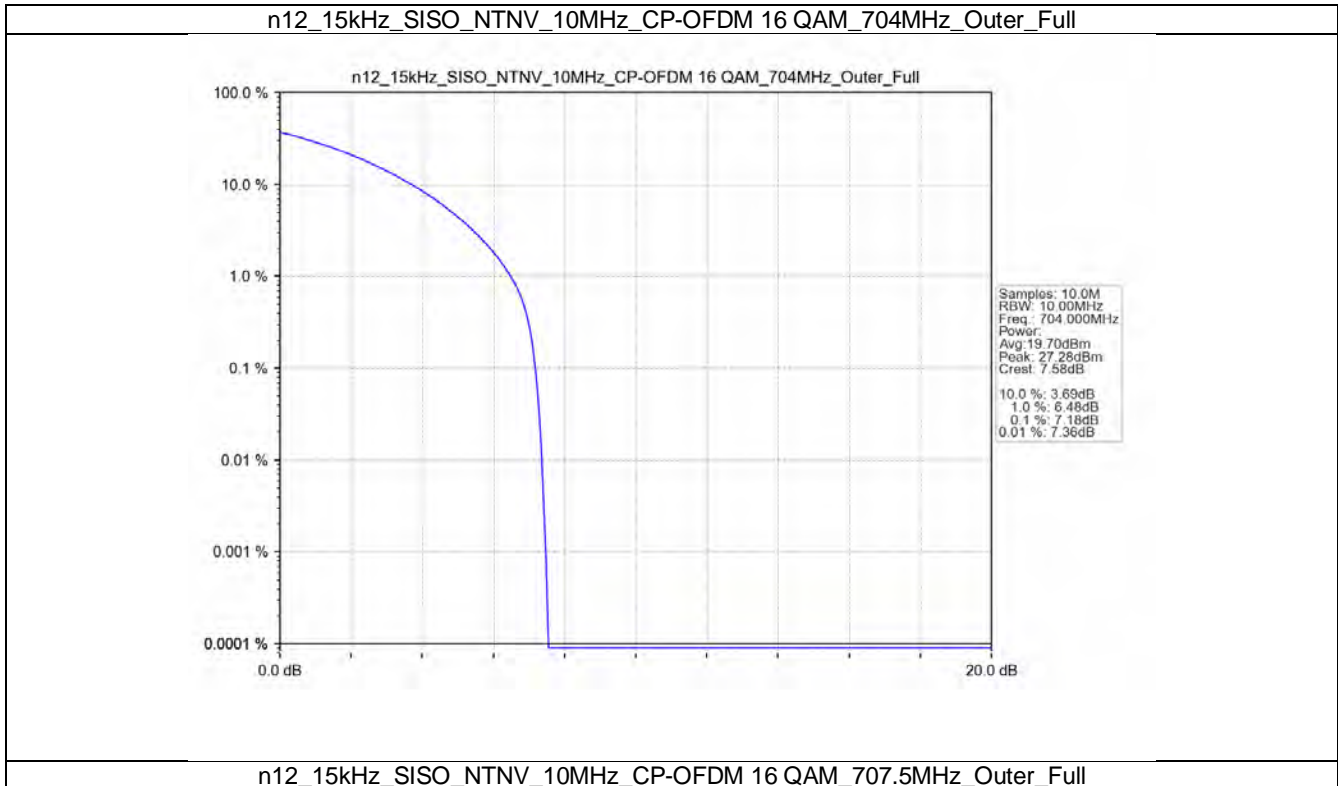


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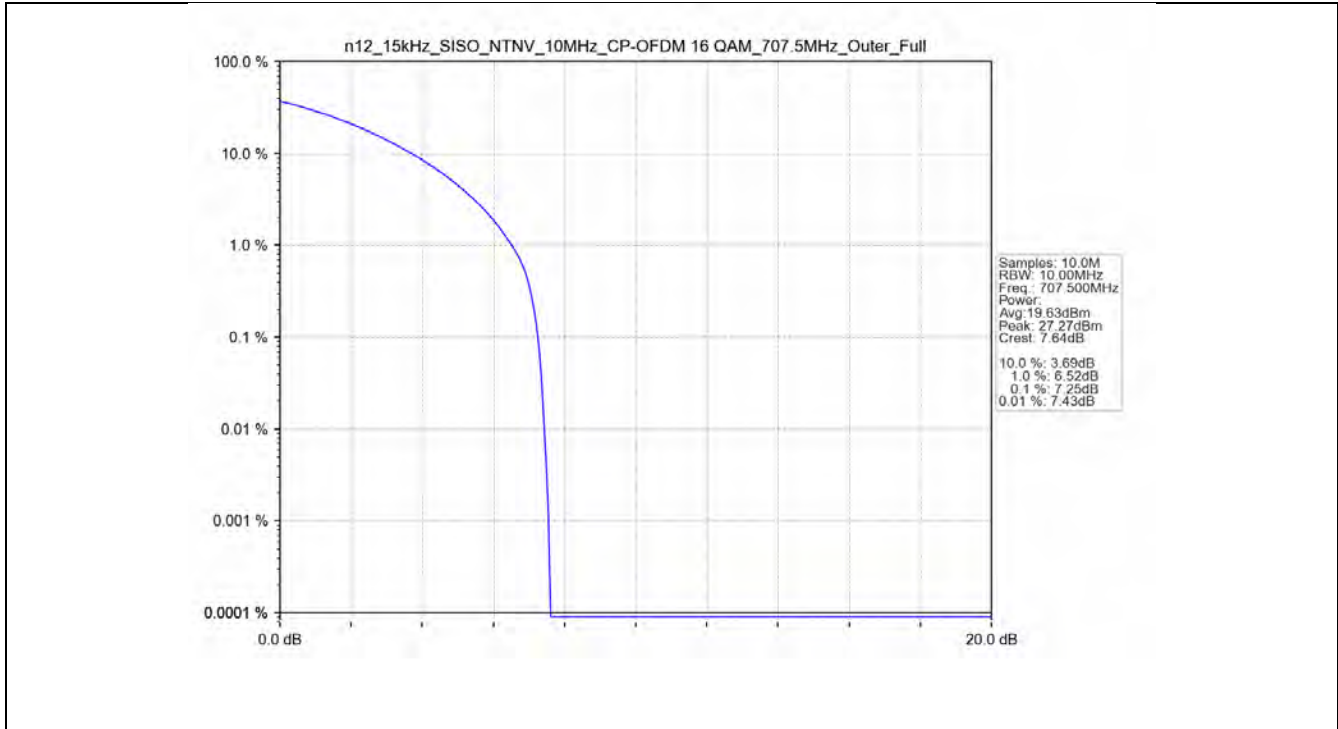


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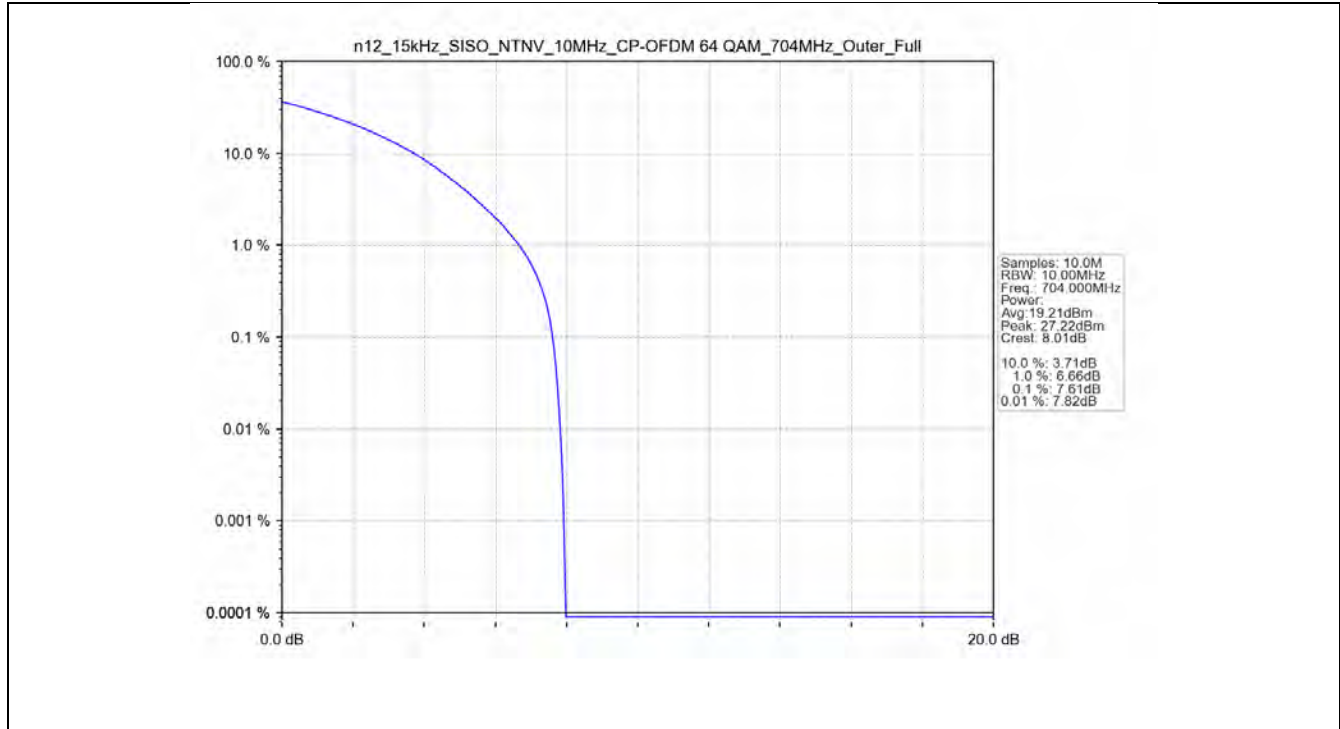


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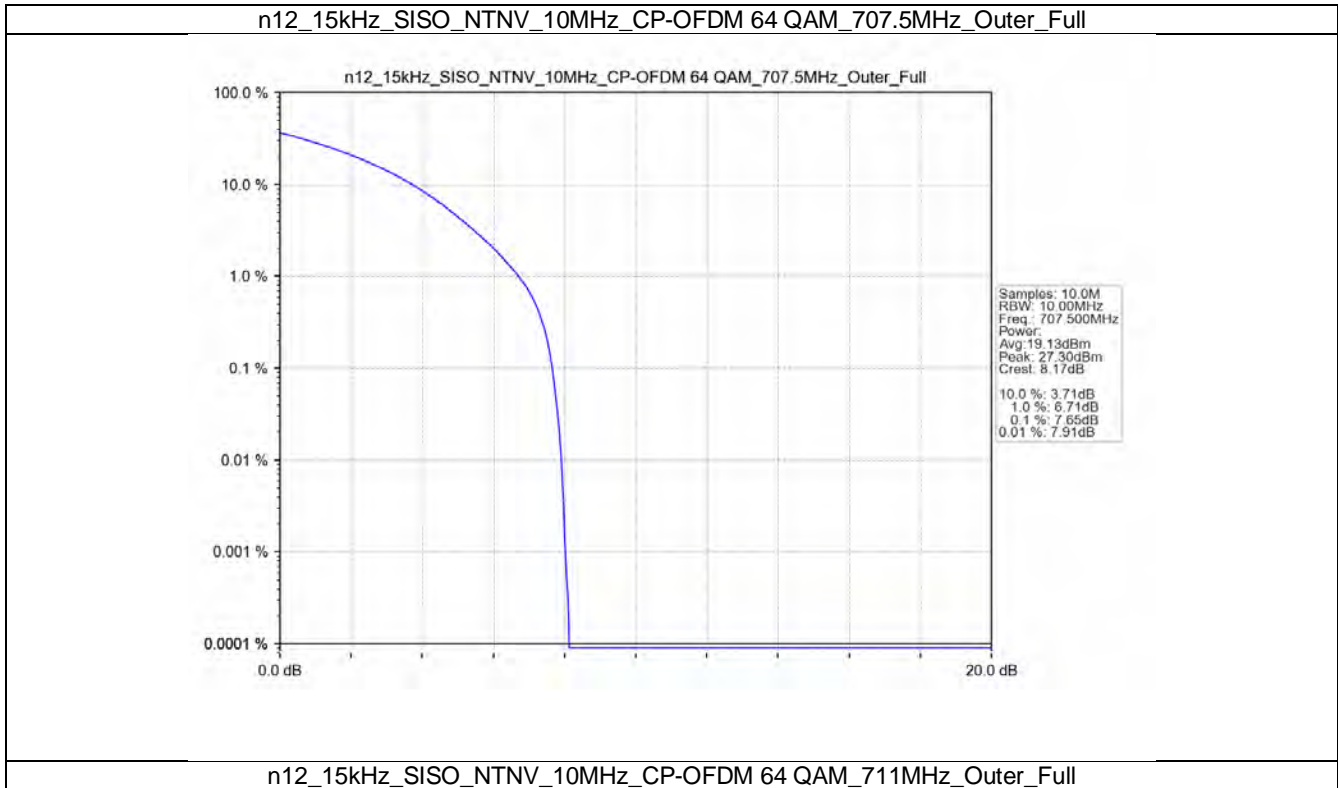


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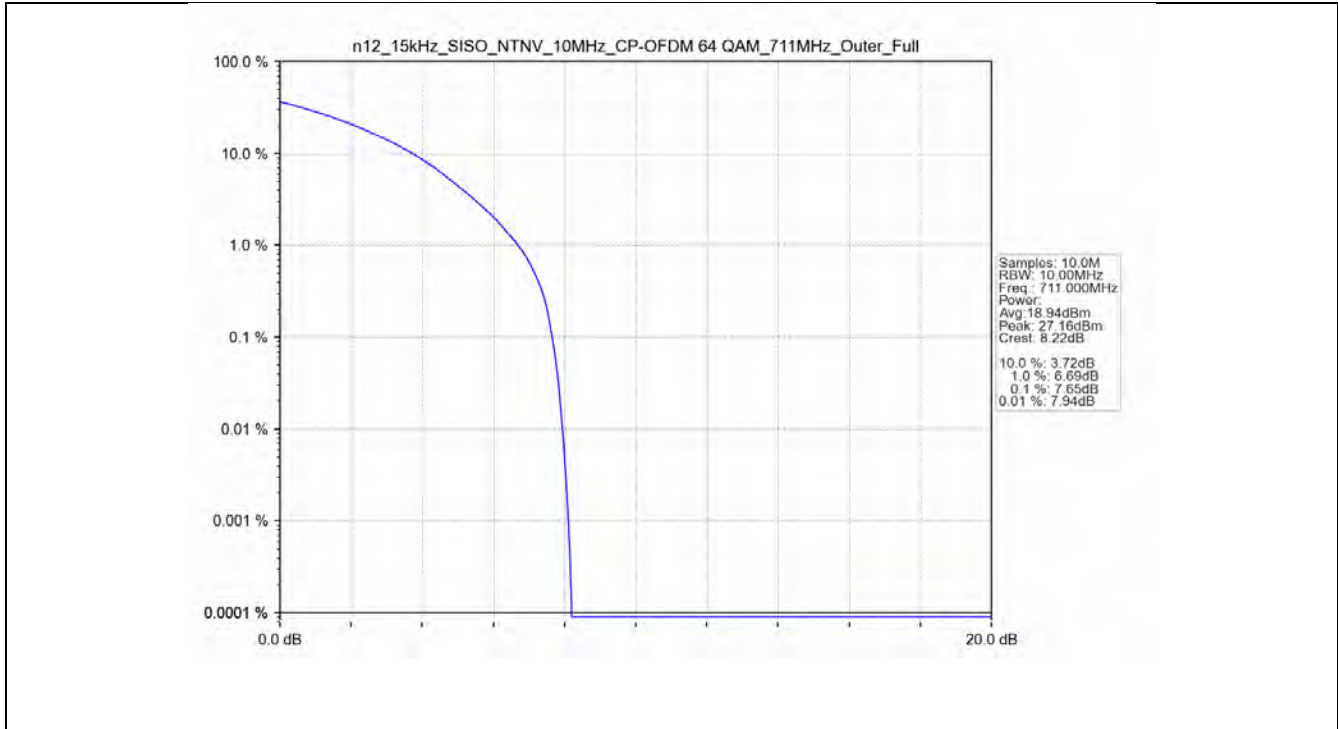


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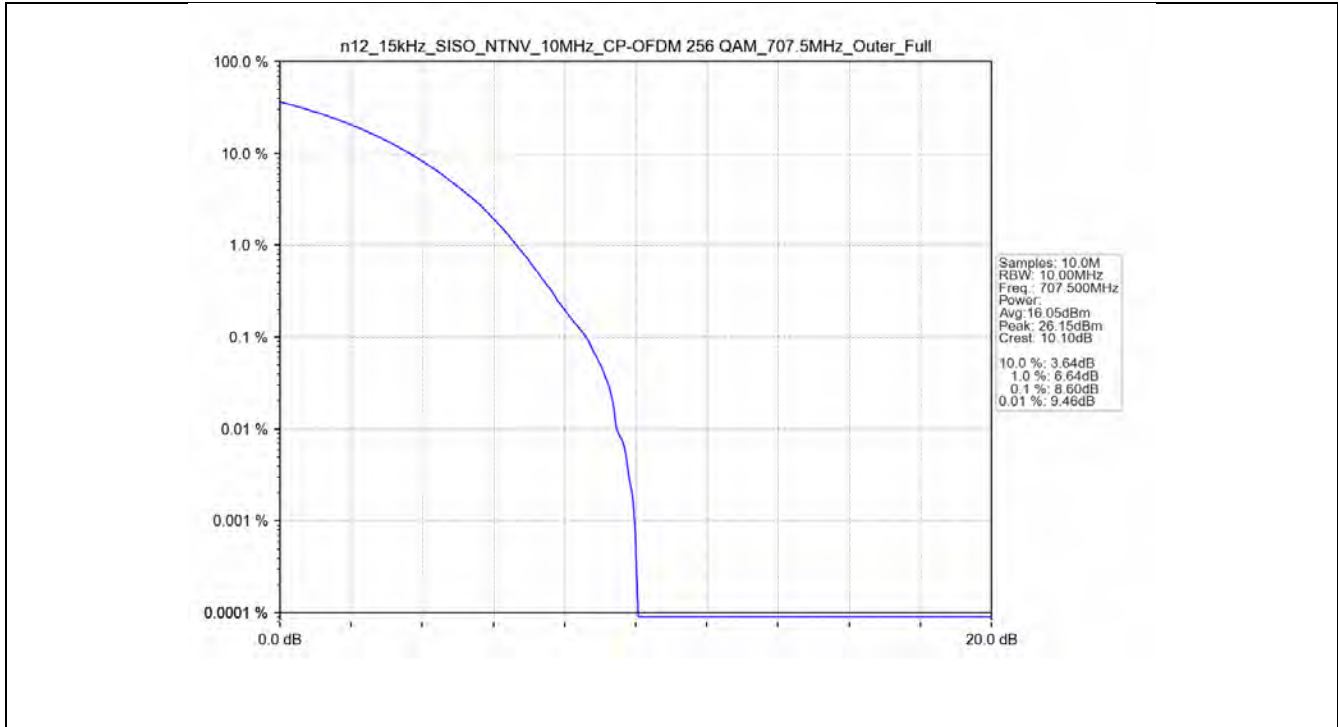


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4.3 15k_SISO_15MHz_NTNV

4.3.1 Test Result

5G NR n12 SCS=15kHz SISO 15MHz NNTV							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	706.5	Outer_Full	4.16	/	/	<=13	Pass
	707.5	Outer_Full	4.24	/	/	<=13	Pass
	708.5	Outer_Full	4.40	/	/	<=13	Pass
DFT-s-OFDM QPSK	706.5	Outer_Full	5.02	/	/	<=13	Pass
	707.5	Outer_Full	5.09	/	/	<=13	Pass
	708.5	Outer_Full	5.17	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	706.5	Outer_Full	6.01	/	/	<=13	Pass
	707.5	Outer_Full	6.08	/	/	<=13	Pass
	708.5	Outer_Full	6.08	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	706.5	Outer_Full	6.37	/	/	<=13	Pass
	707.5	Outer_Full	6.40	/	/	<=13	Pass
	708.5	Outer_Full	6.43	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	706.5	Outer_Full	6.57	/	/	<=13	Pass
	707.5	Outer_Full	6.59	/	/	<=13	Pass
	708.5	Outer_Full	6.60	/	/	<=13	Pass
CP-OFDM QPSK	706.5	Outer_Full	6.90	/	/	<=13	Pass
	707.5	Outer_Full	6.92	/	/	<=13	Pass
	708.5	Outer_Full	7.00	/	/	<=13	Pass
CP-OFDM 16 QAM	706.5	Outer_Full	7.01	/	/	<=13	Pass
	707.5	Outer_Full	7.06	/	/	<=13	Pass
	708.5	Outer_Full	7.16	/	/	<=13	Pass
CP-OFDM 64 QAM	706.5	Outer_Full	7.60	/	/	<=13	Pass
	707.5	Outer_Full	7.68	/	/	<=13	Pass
	708.5	Outer_Full	7.75	/	/	<=13	Pass
CP-OFDM 256 QAM	706.5	Outer_Full	8.40	/	/	<=13	Pass
	707.5	Outer_Full	8.28	/	/	<=13	Pass
	708.5	Outer_Full	8.28	/	/	<=13	Pass



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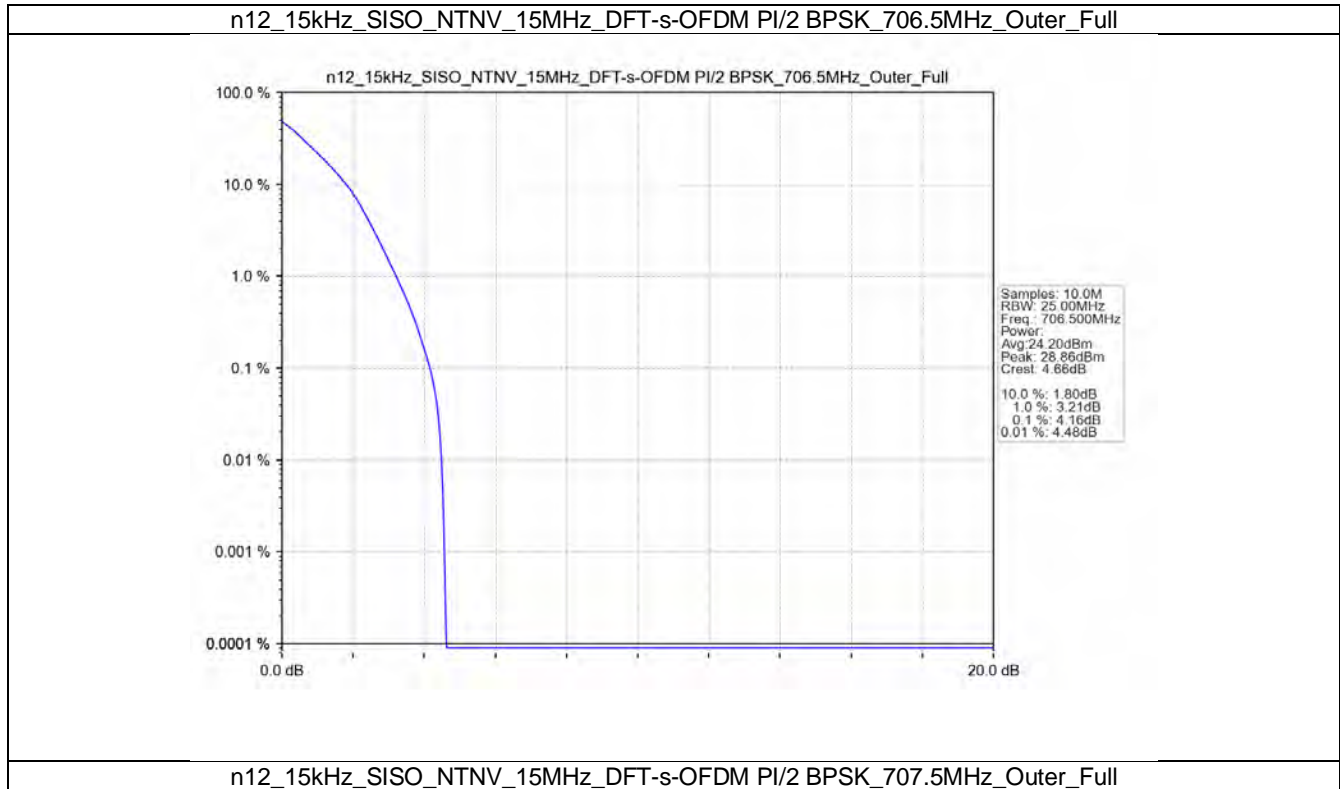


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4.3.2 Test Graph



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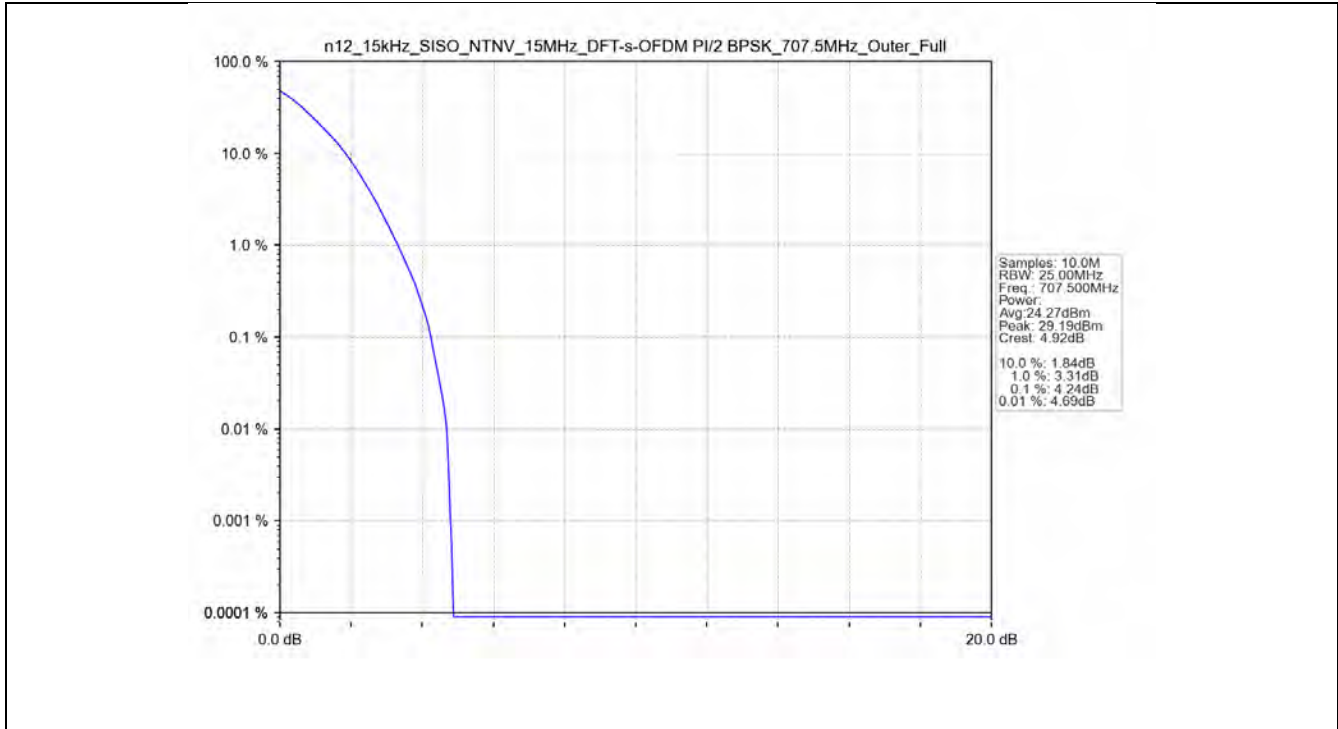


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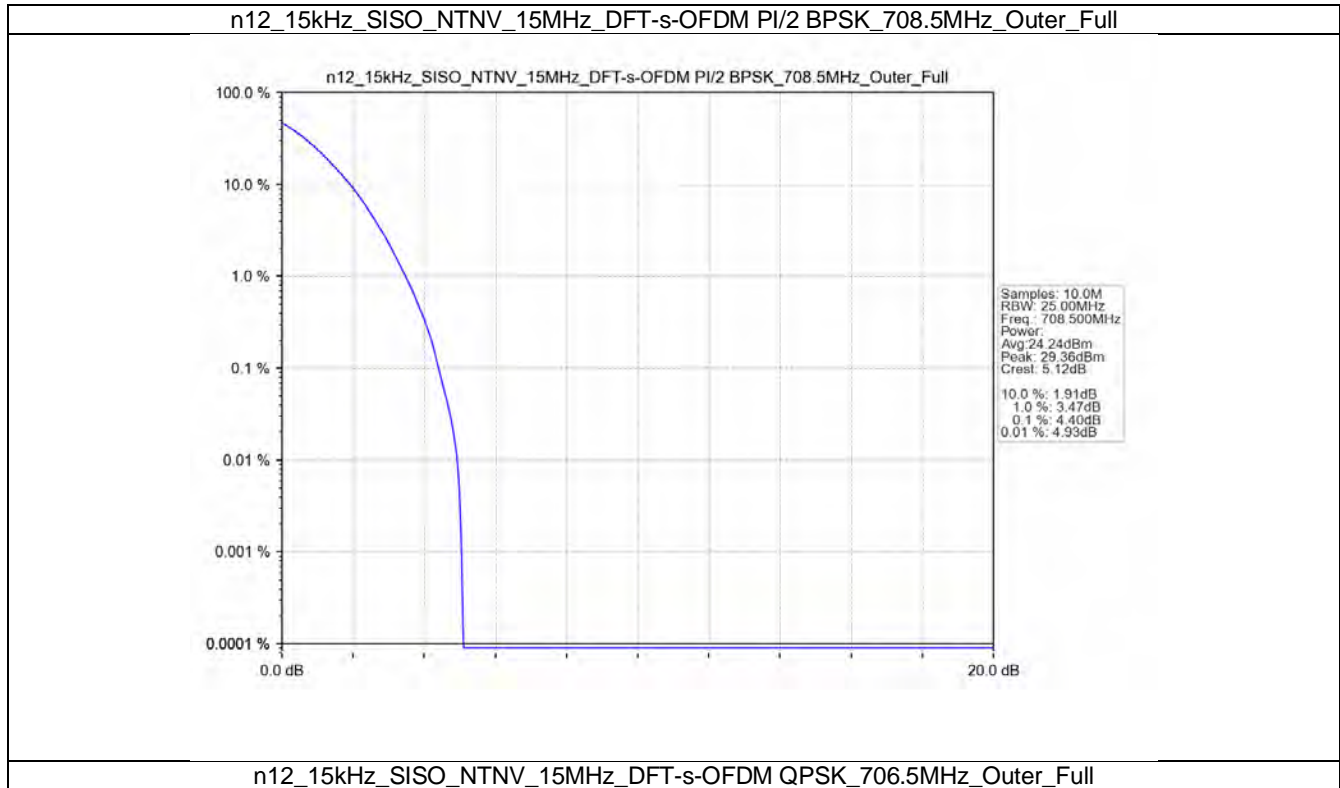


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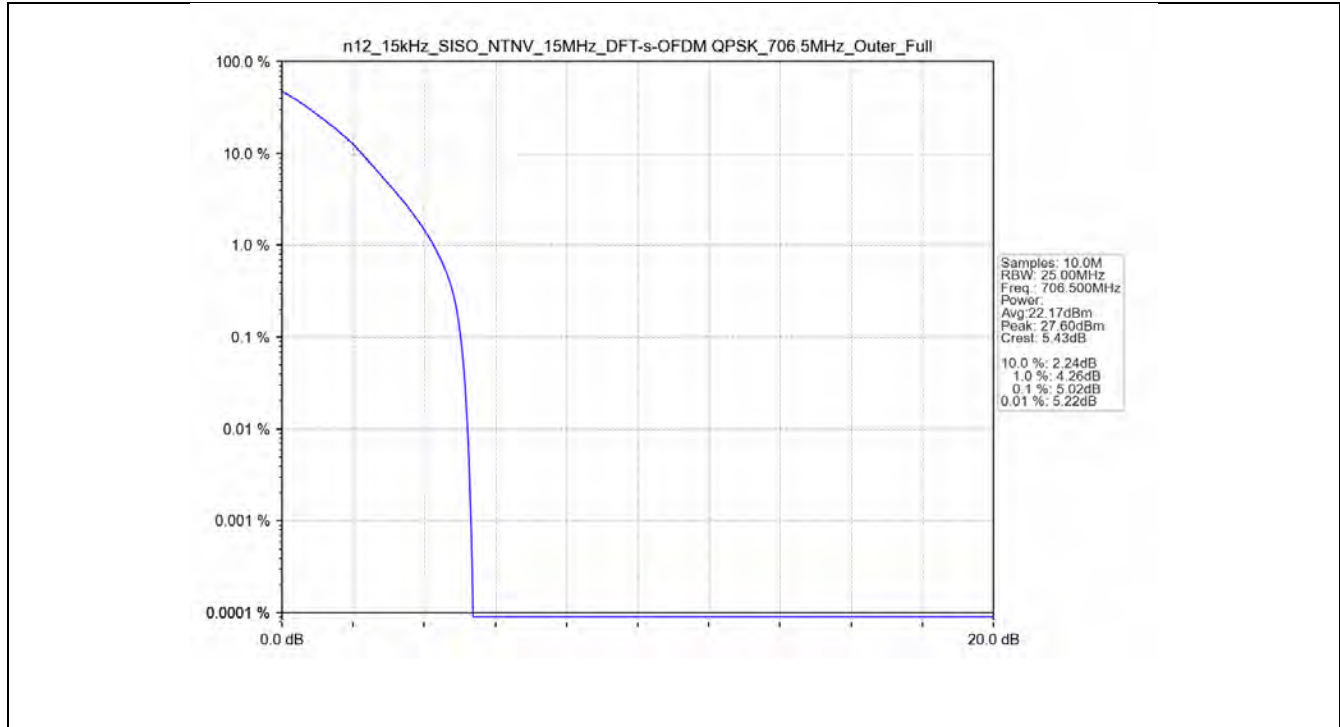


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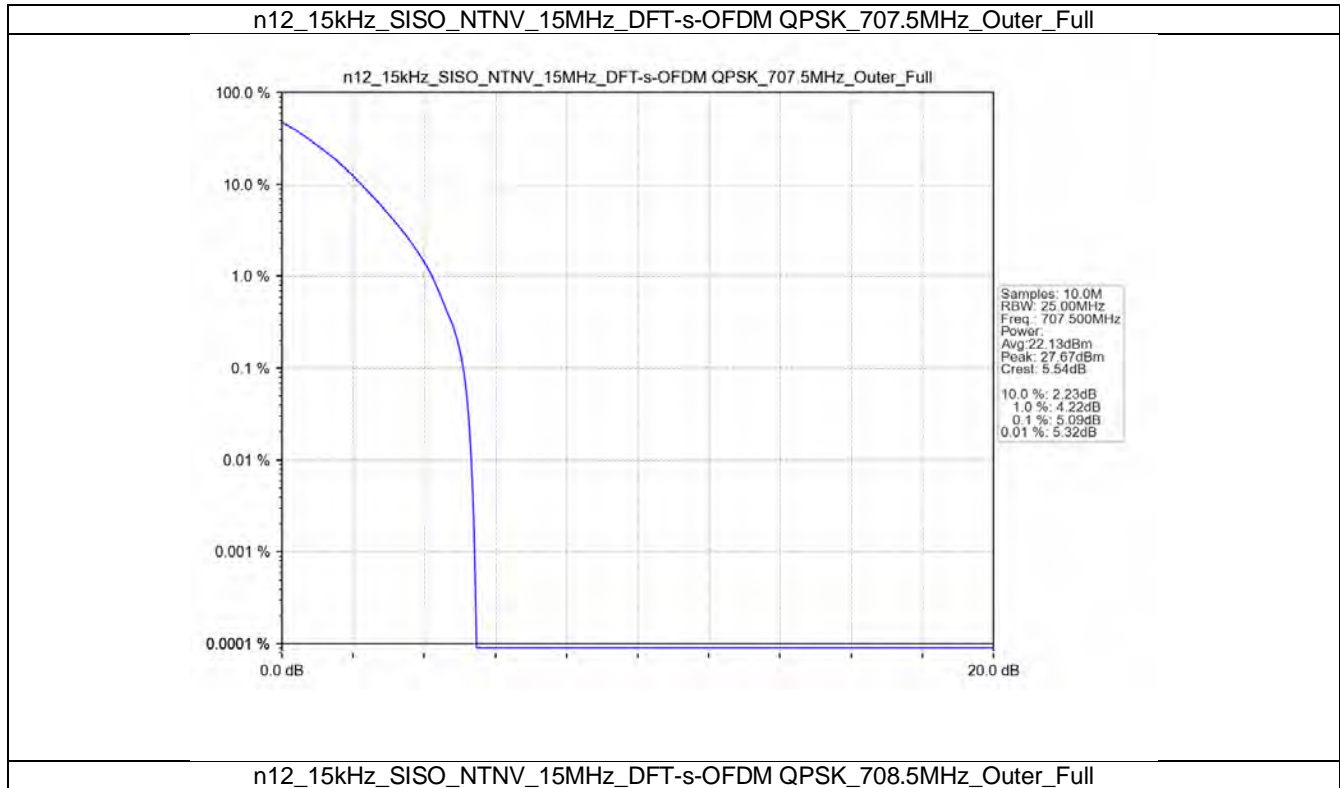


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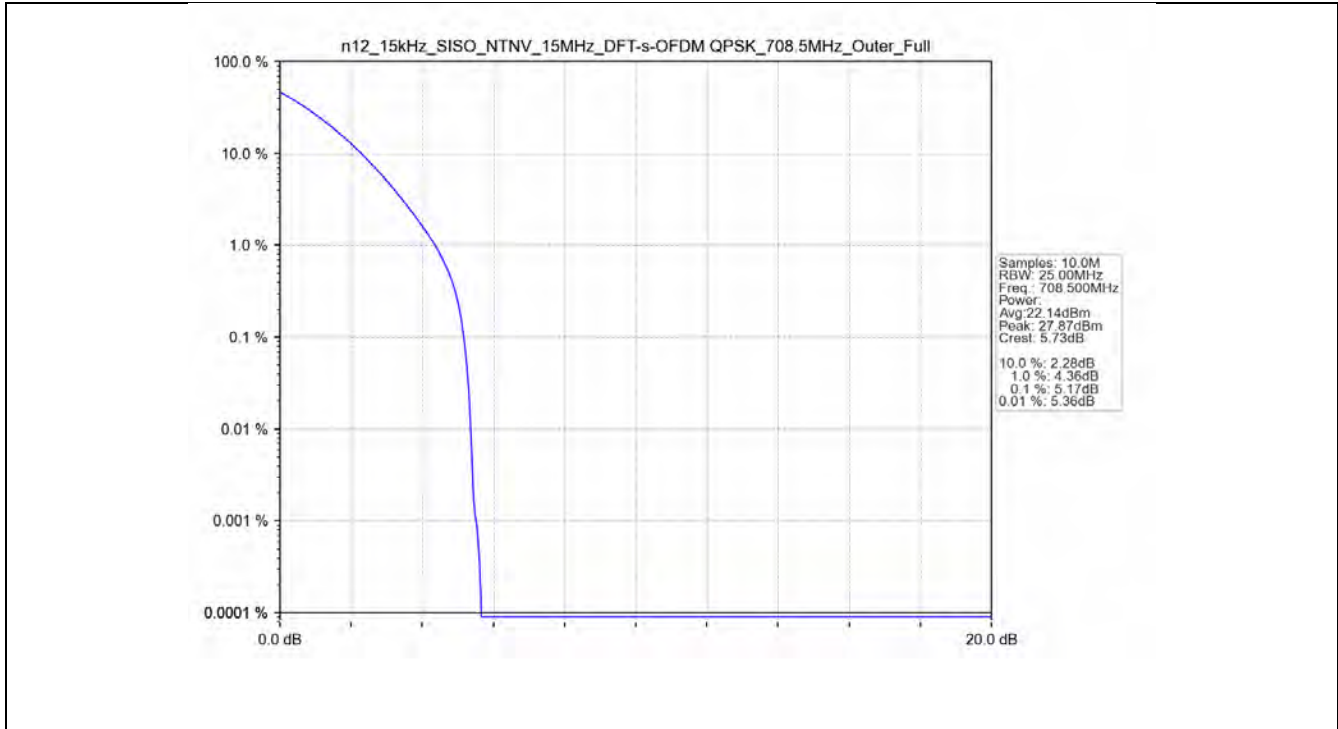


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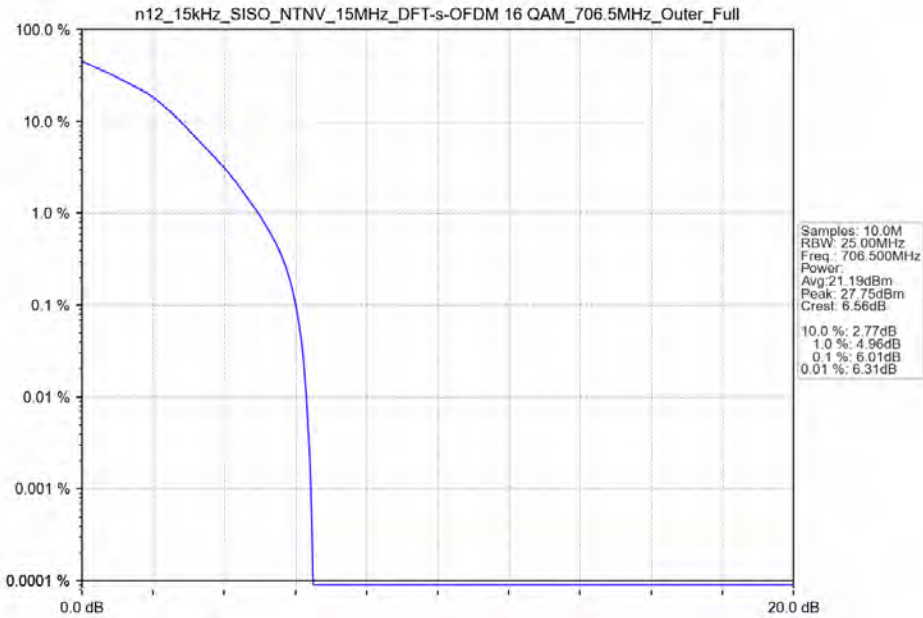
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n12_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM_16_QAM_707.5MHz_Outer_Full



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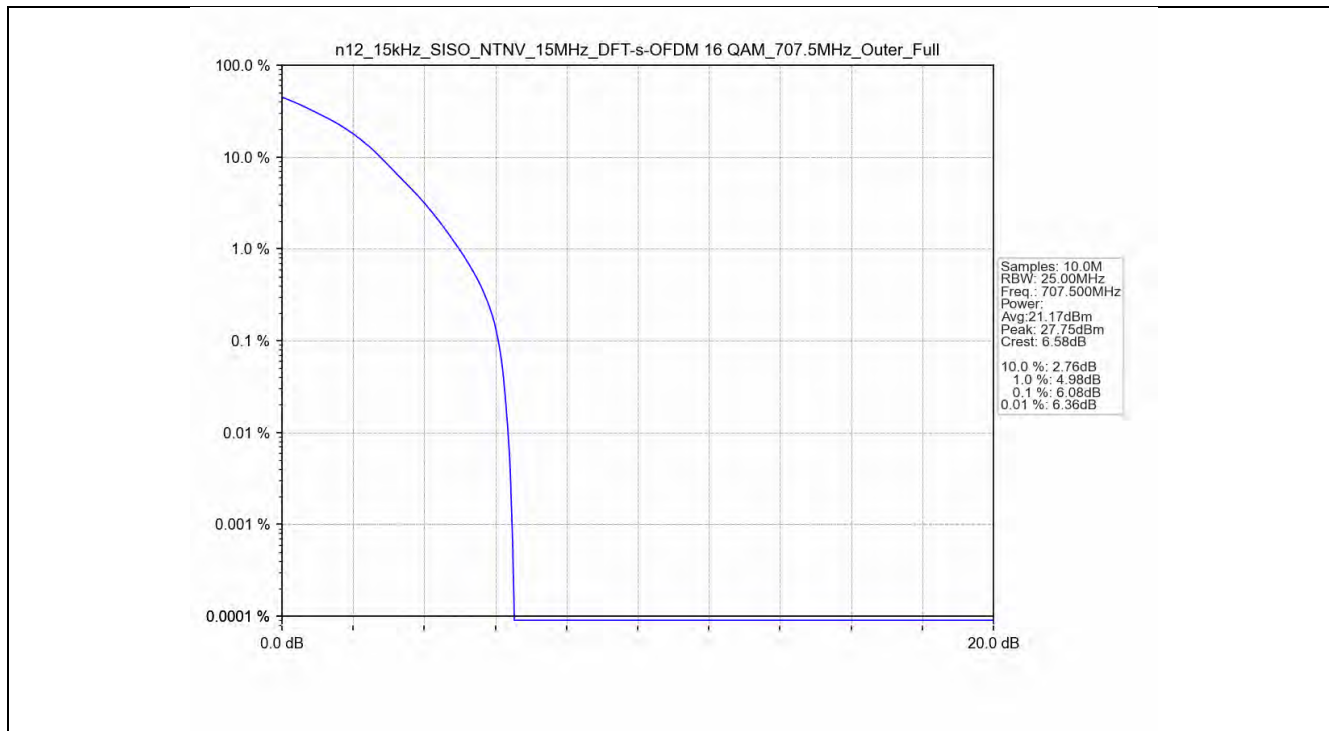
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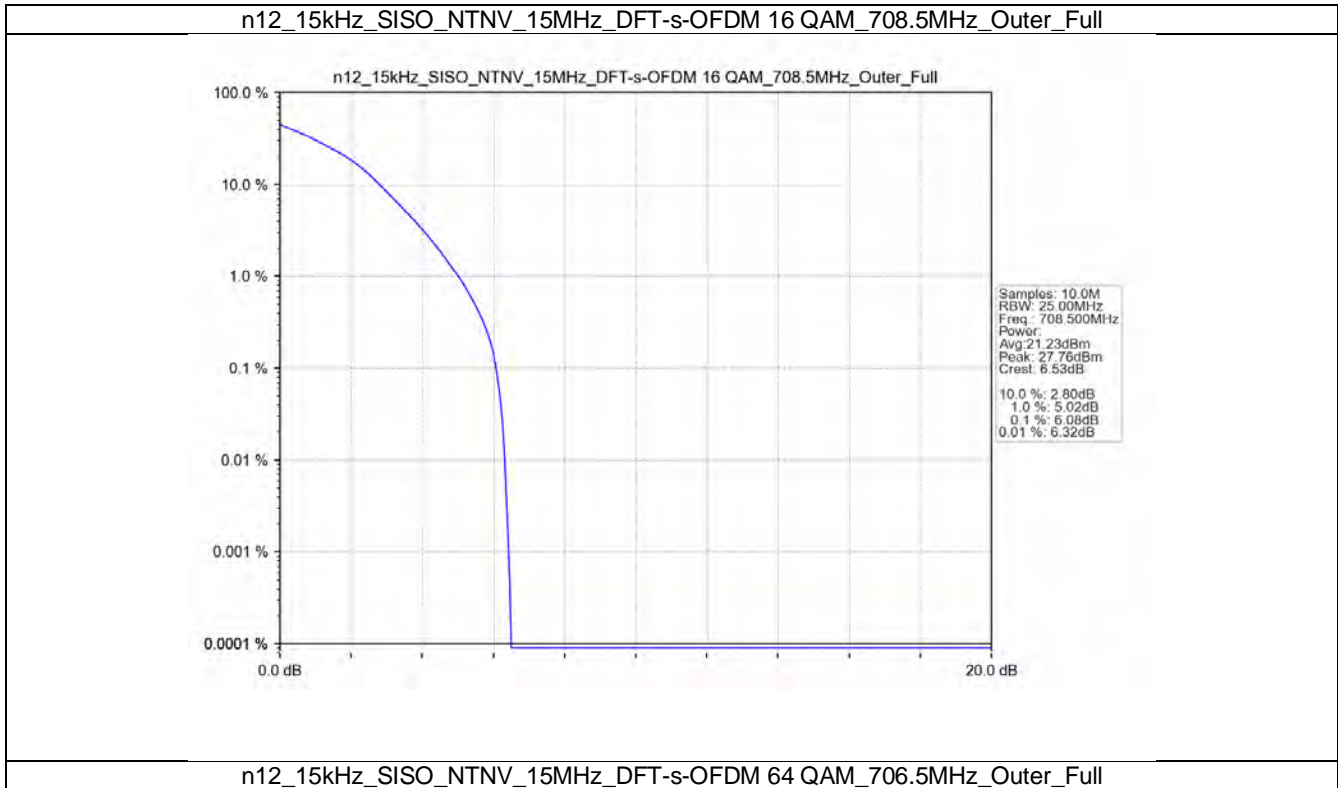


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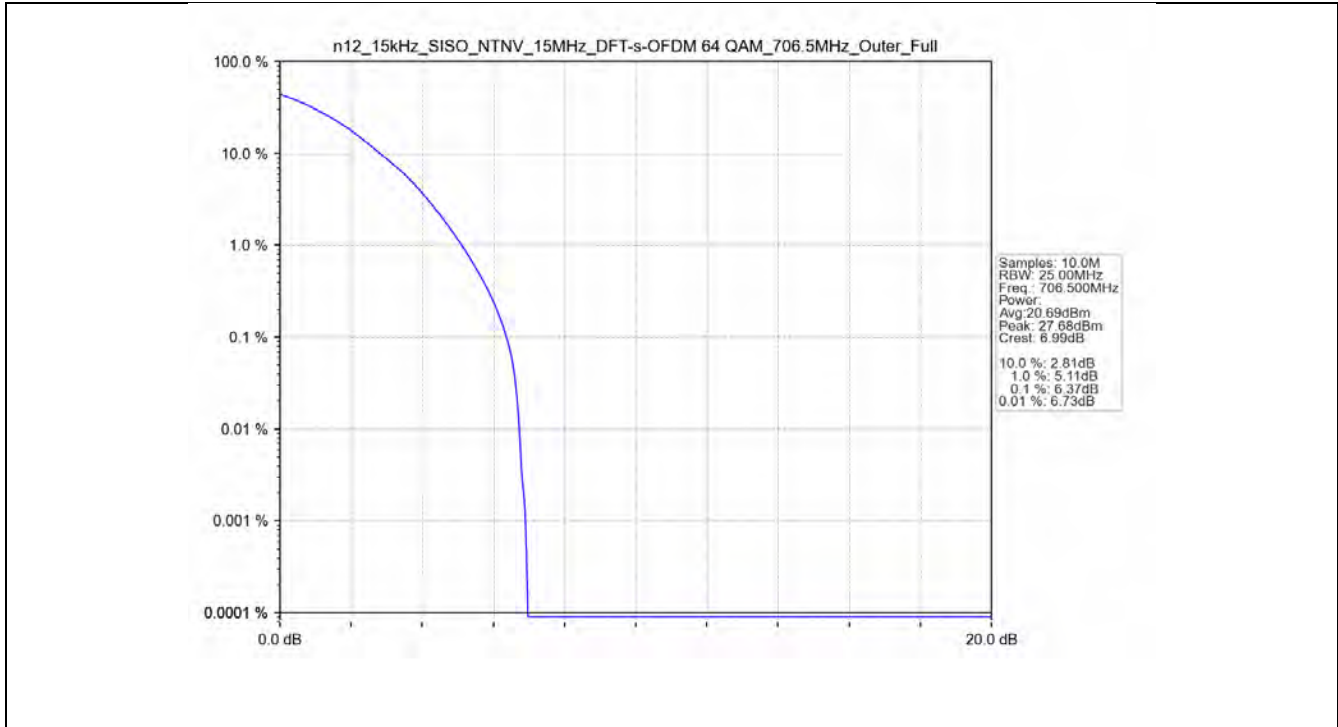


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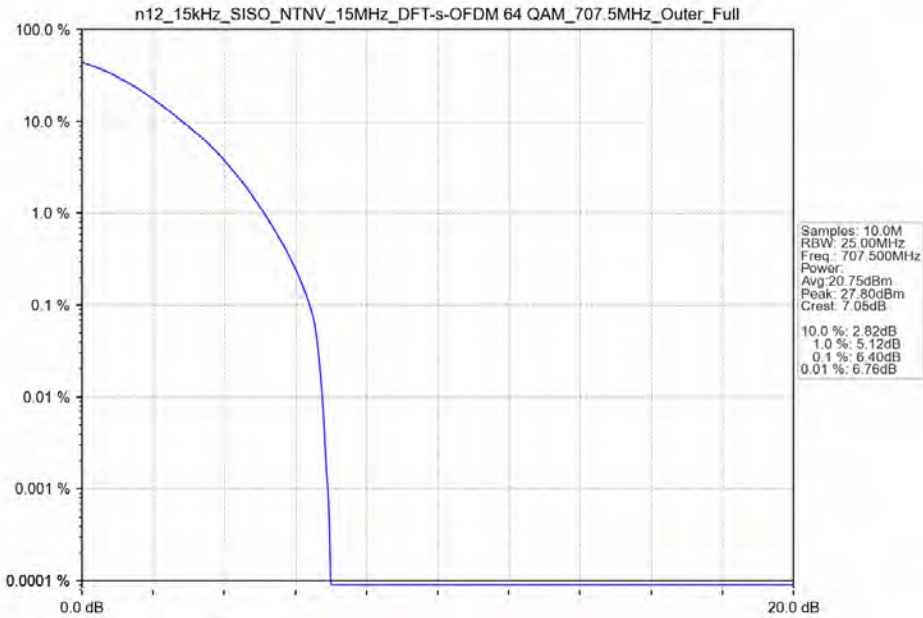
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n12_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 64 QAM_707.5MHz_Outer_Full



n12_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 64 QAM_708.5MHz_Outer_Full



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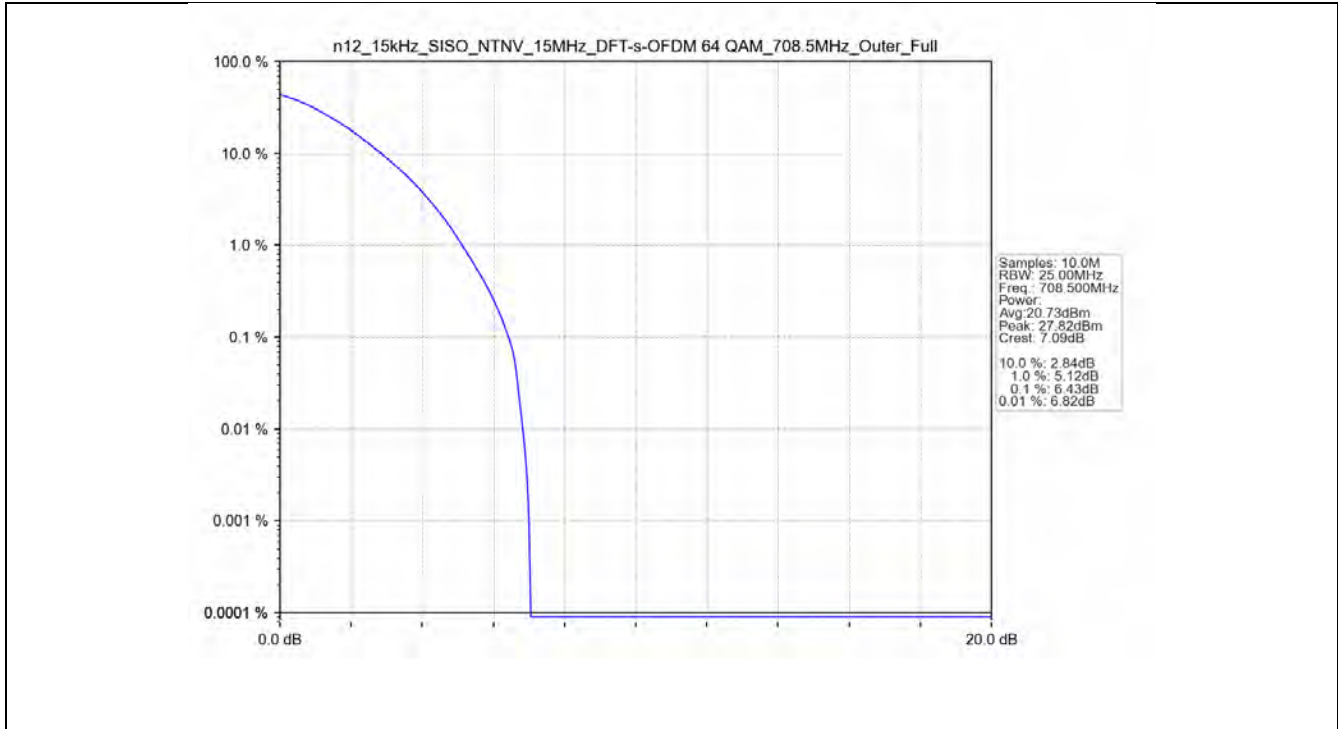


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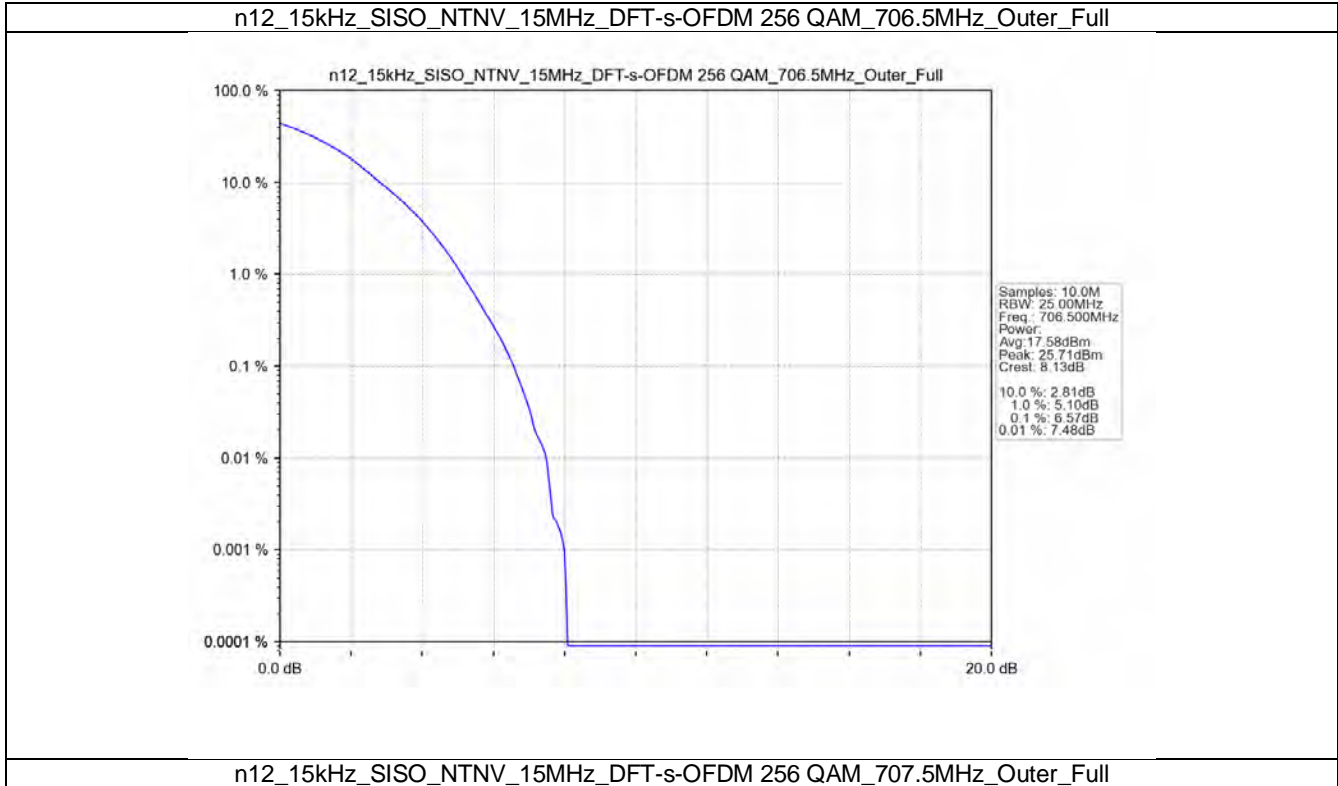


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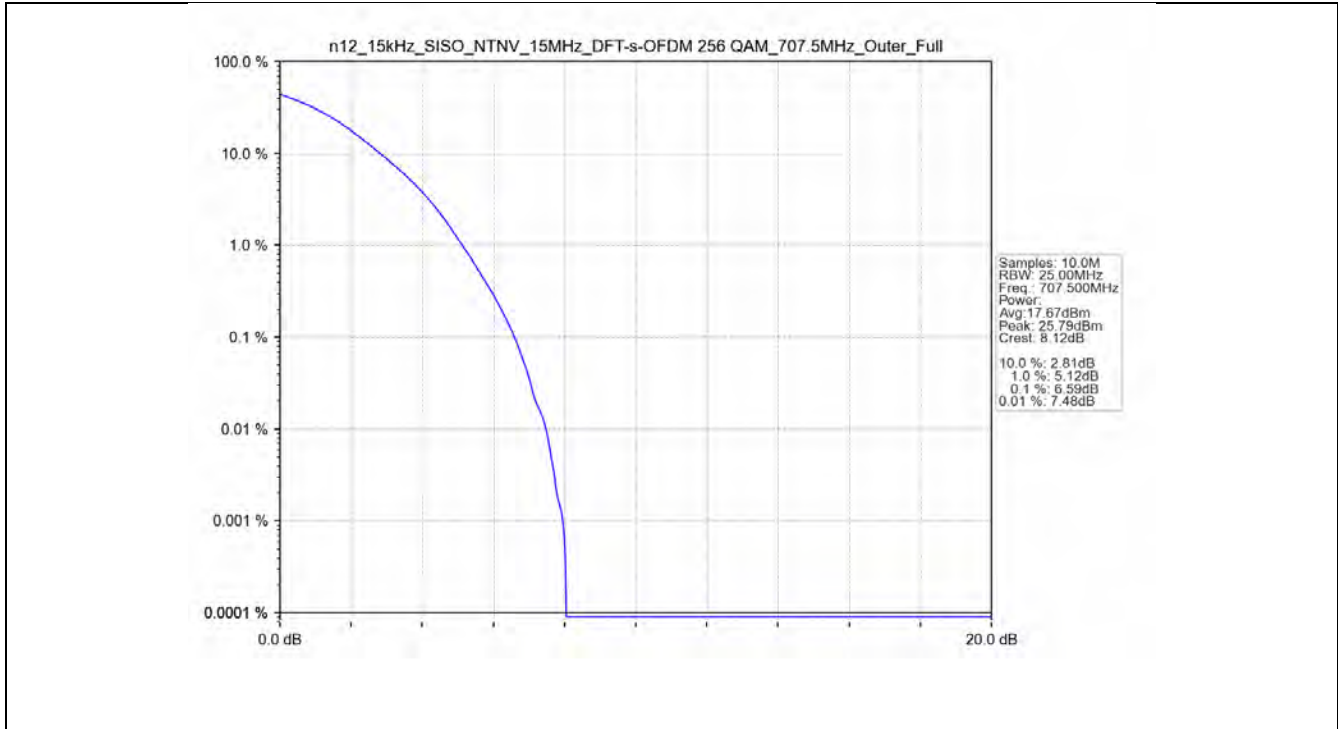


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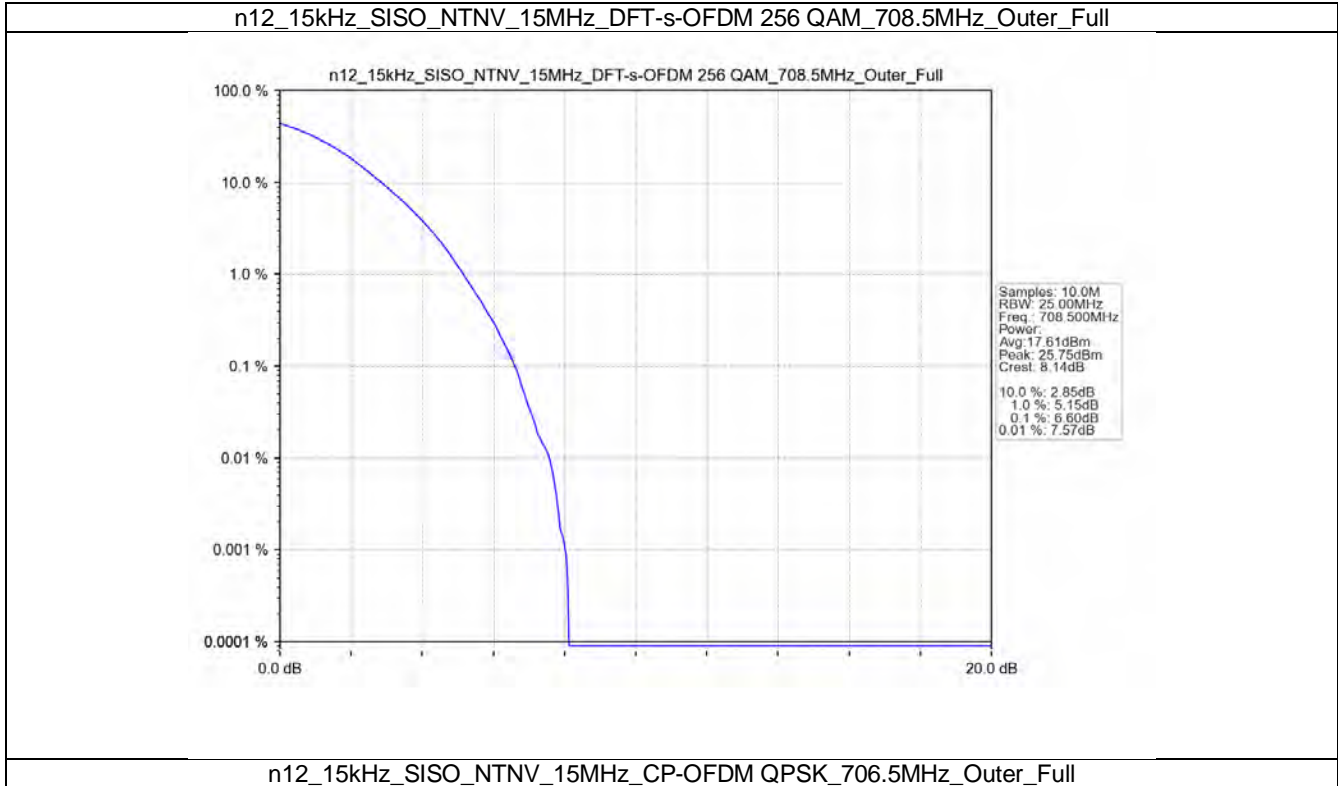


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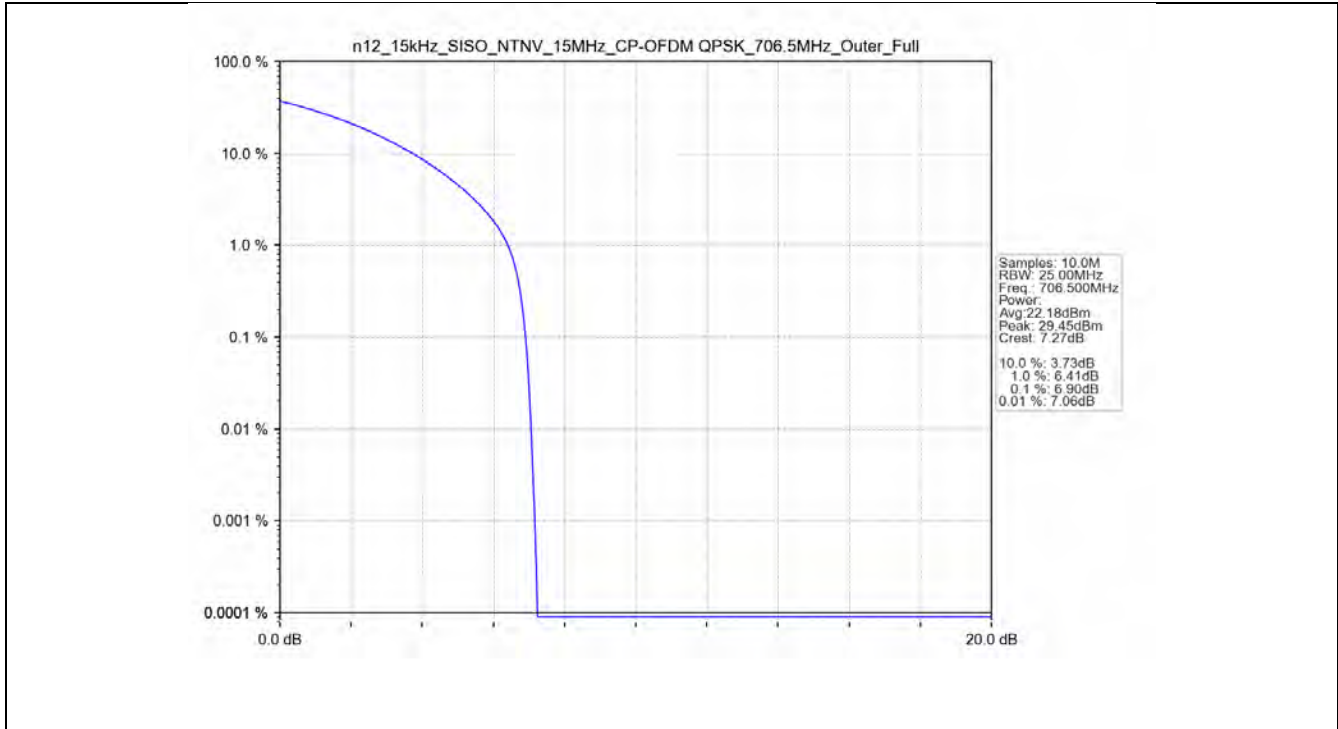


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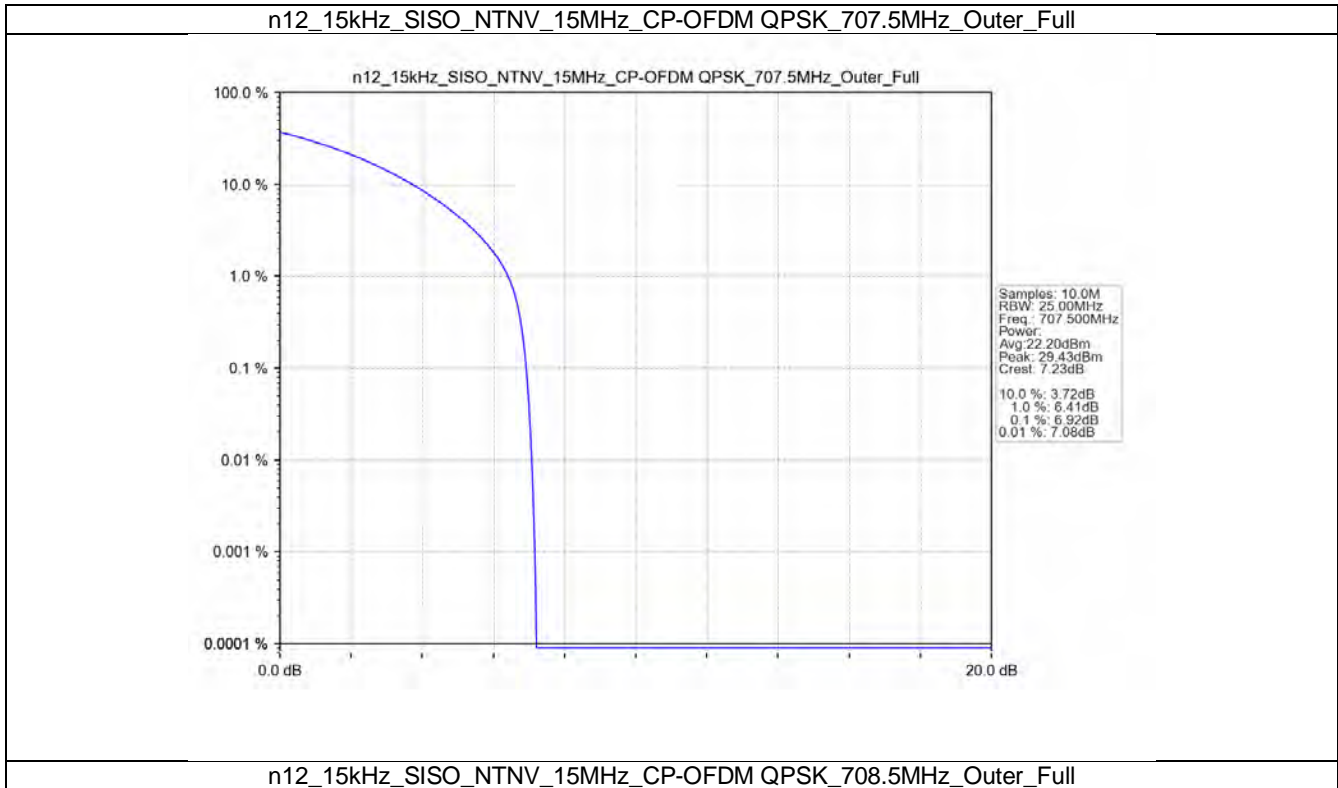


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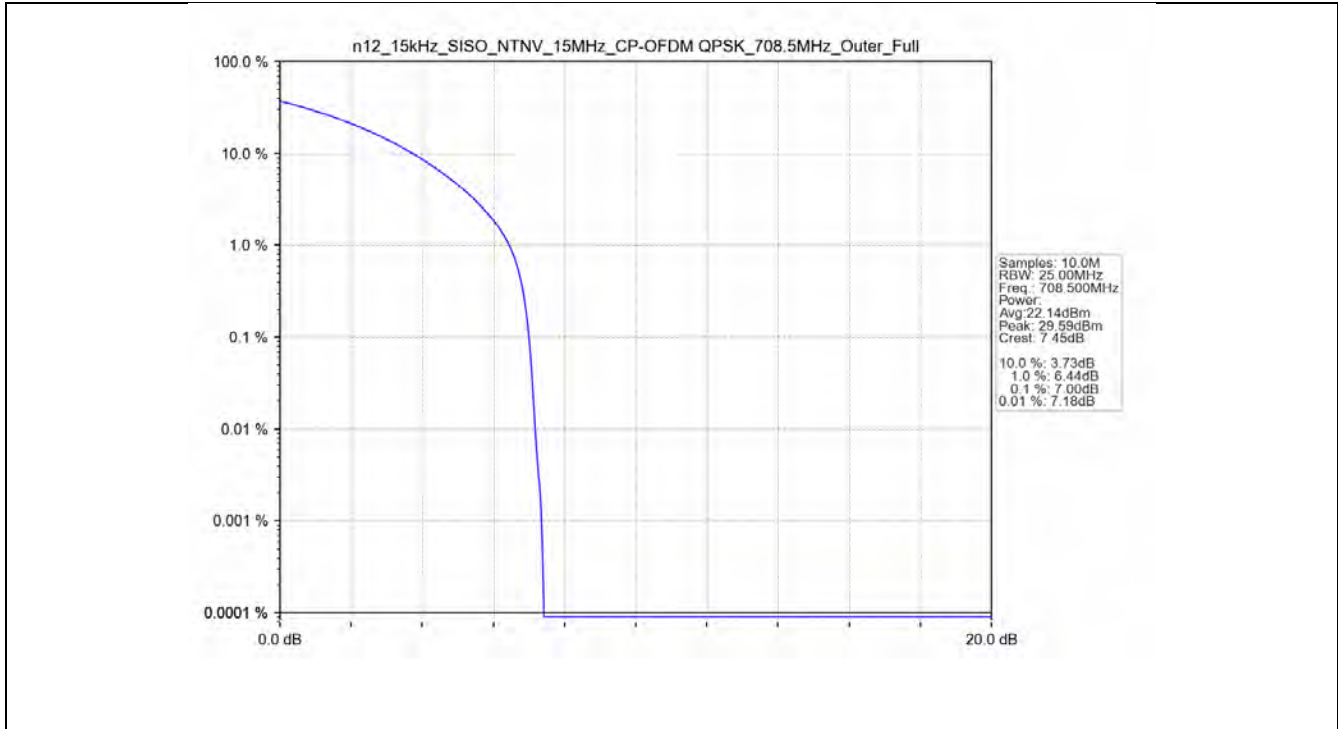


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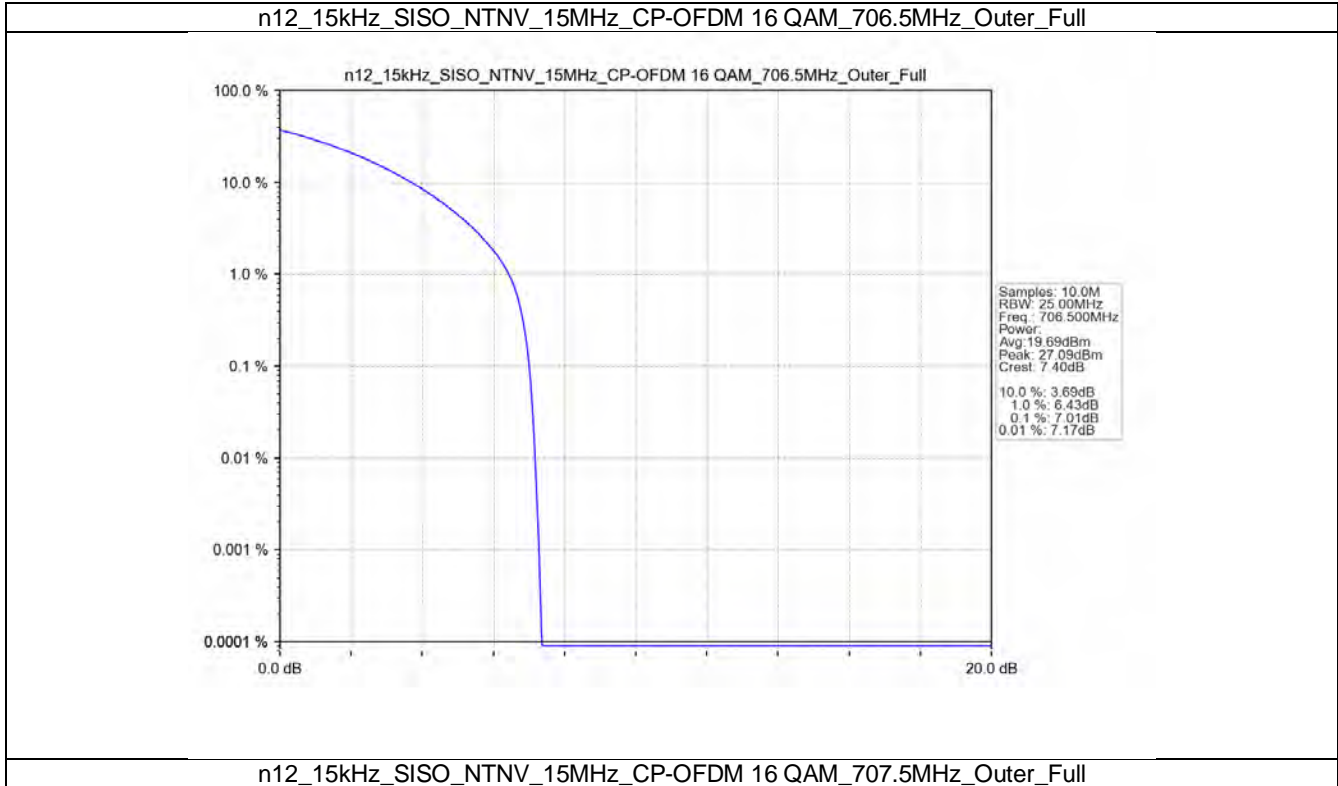


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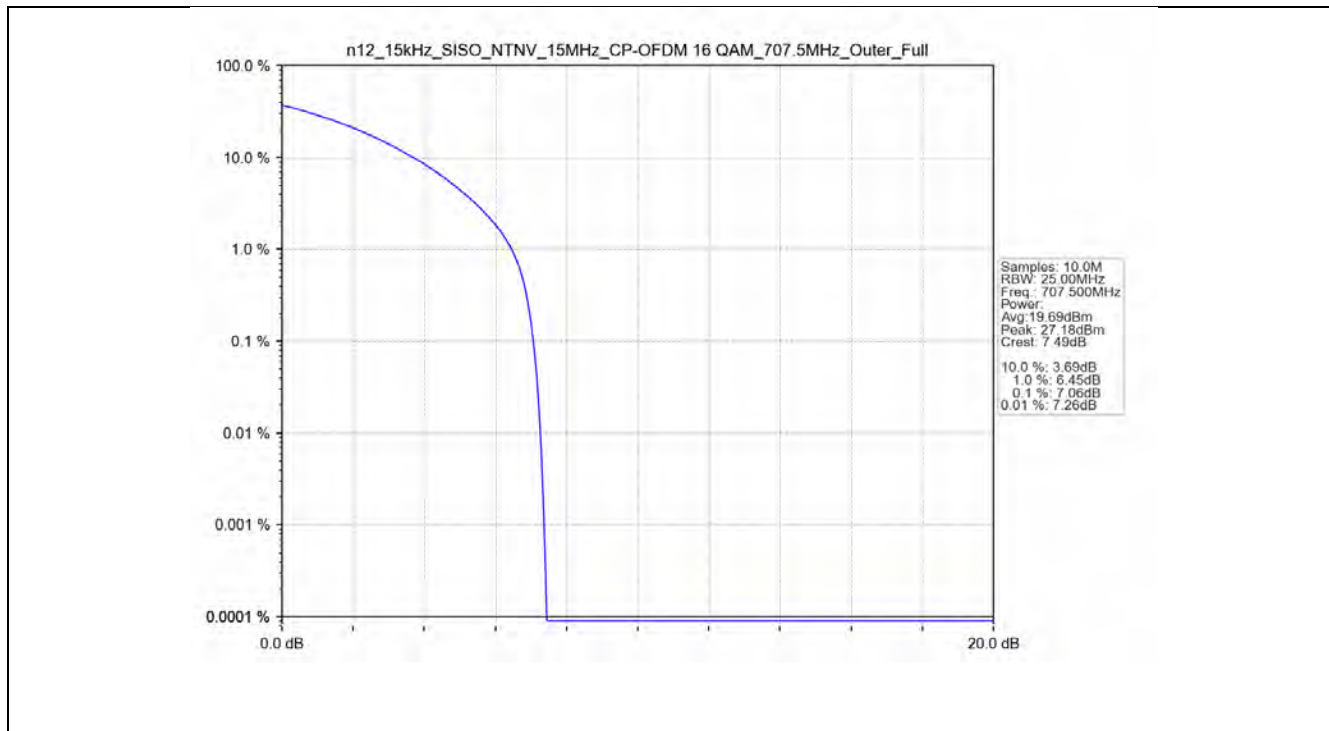
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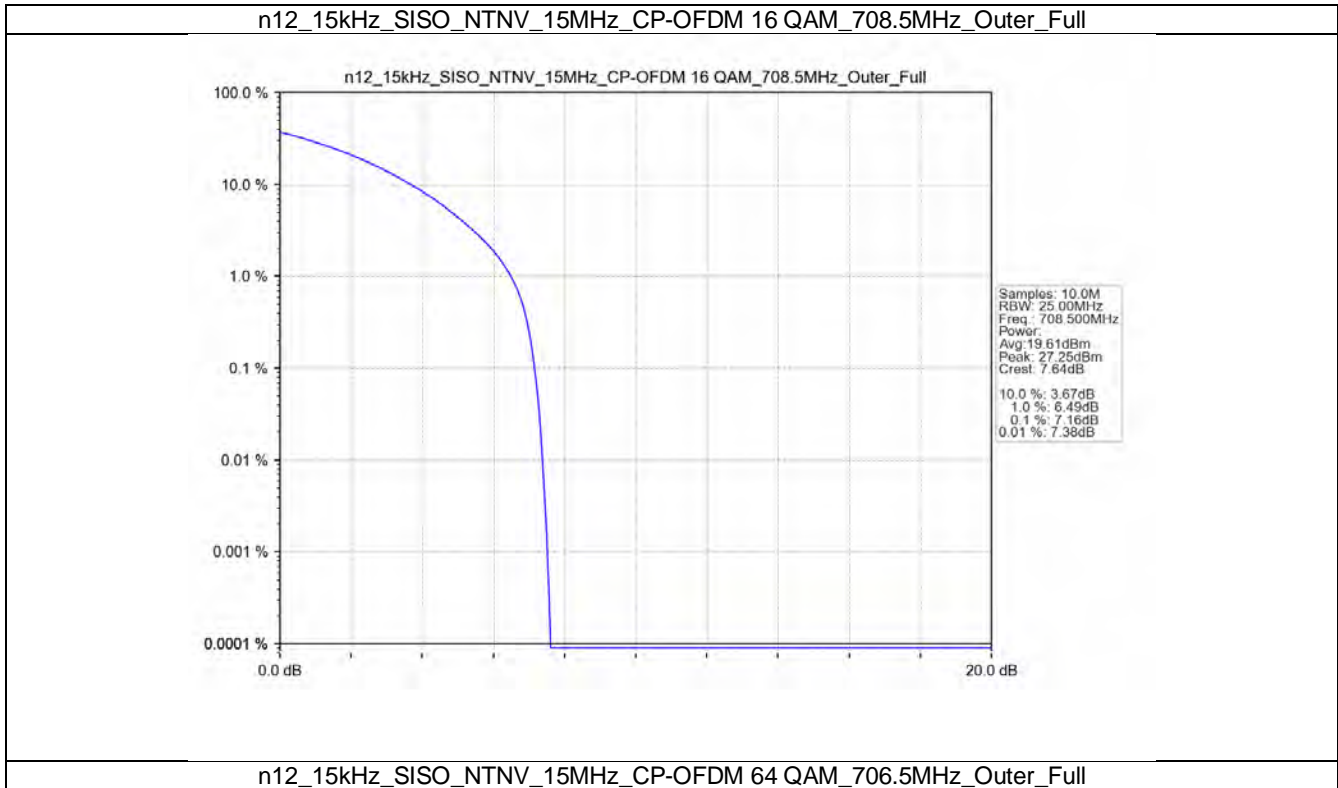


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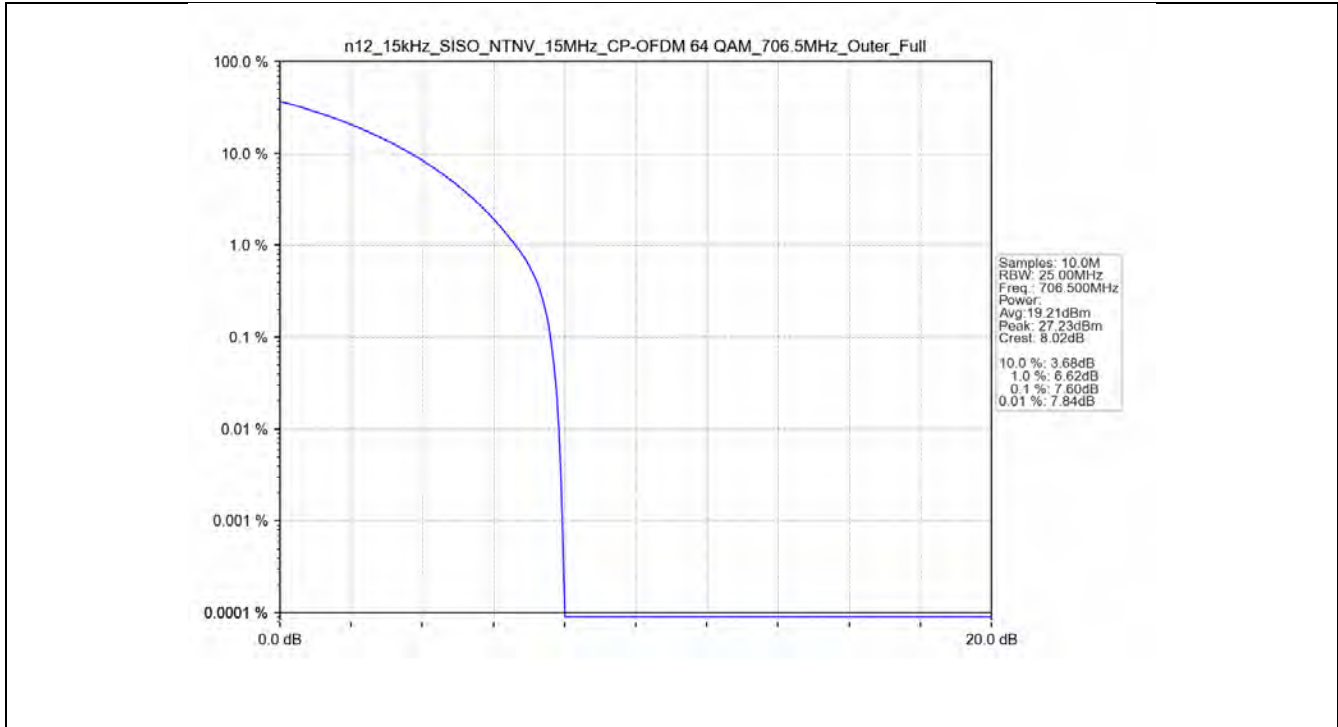


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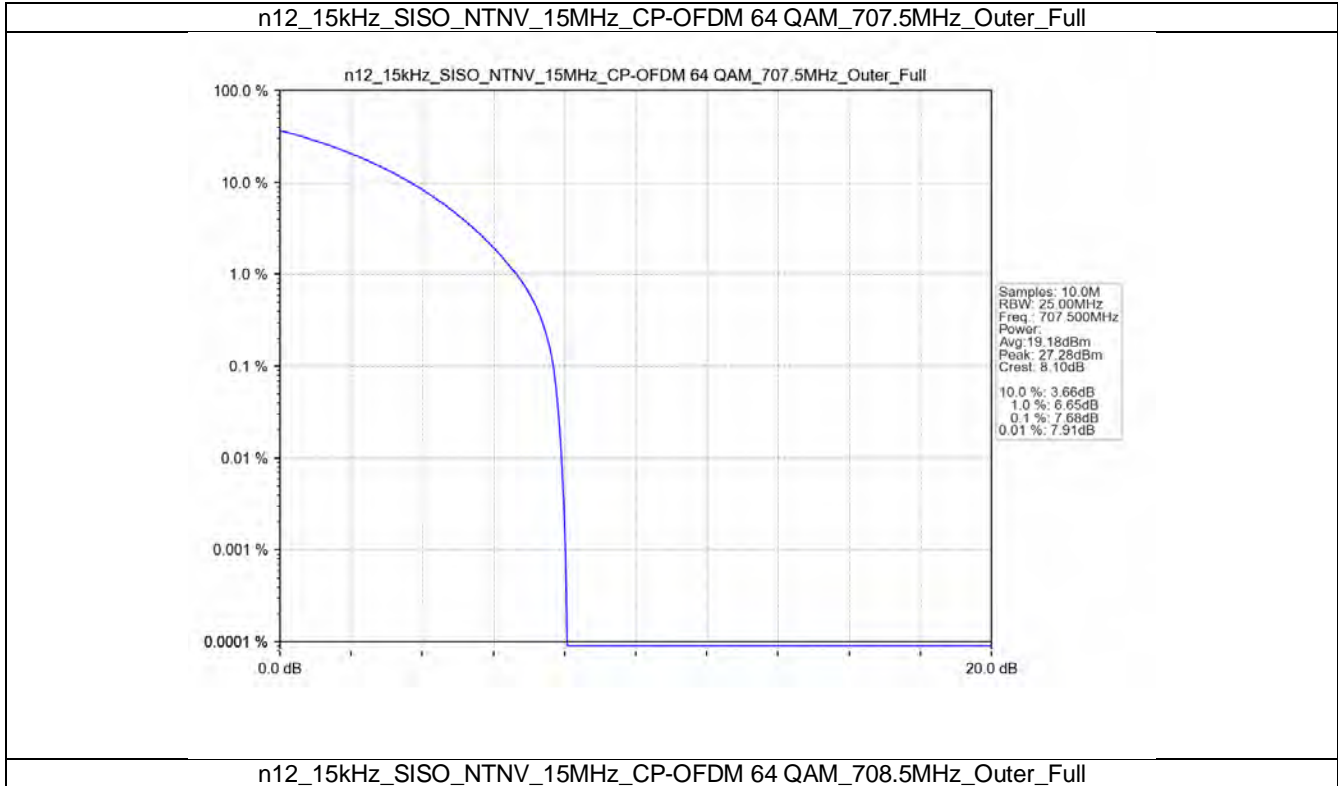


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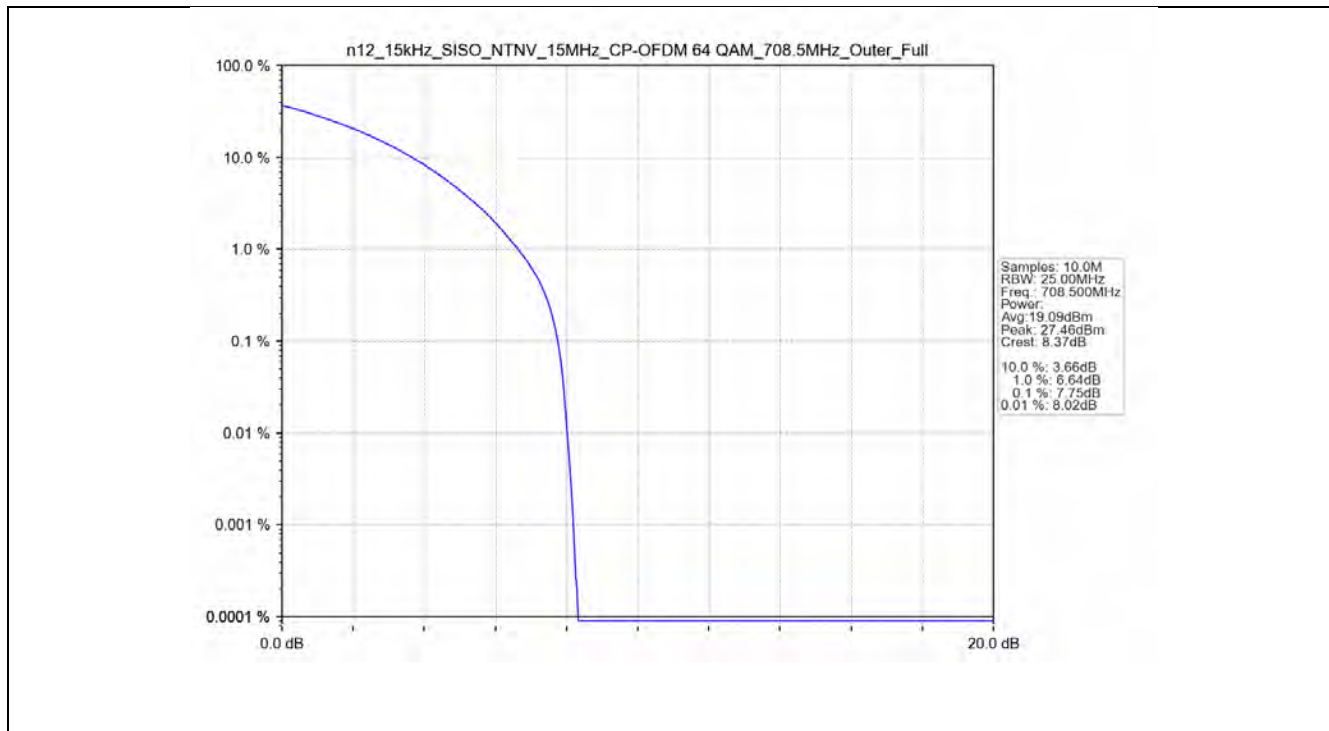
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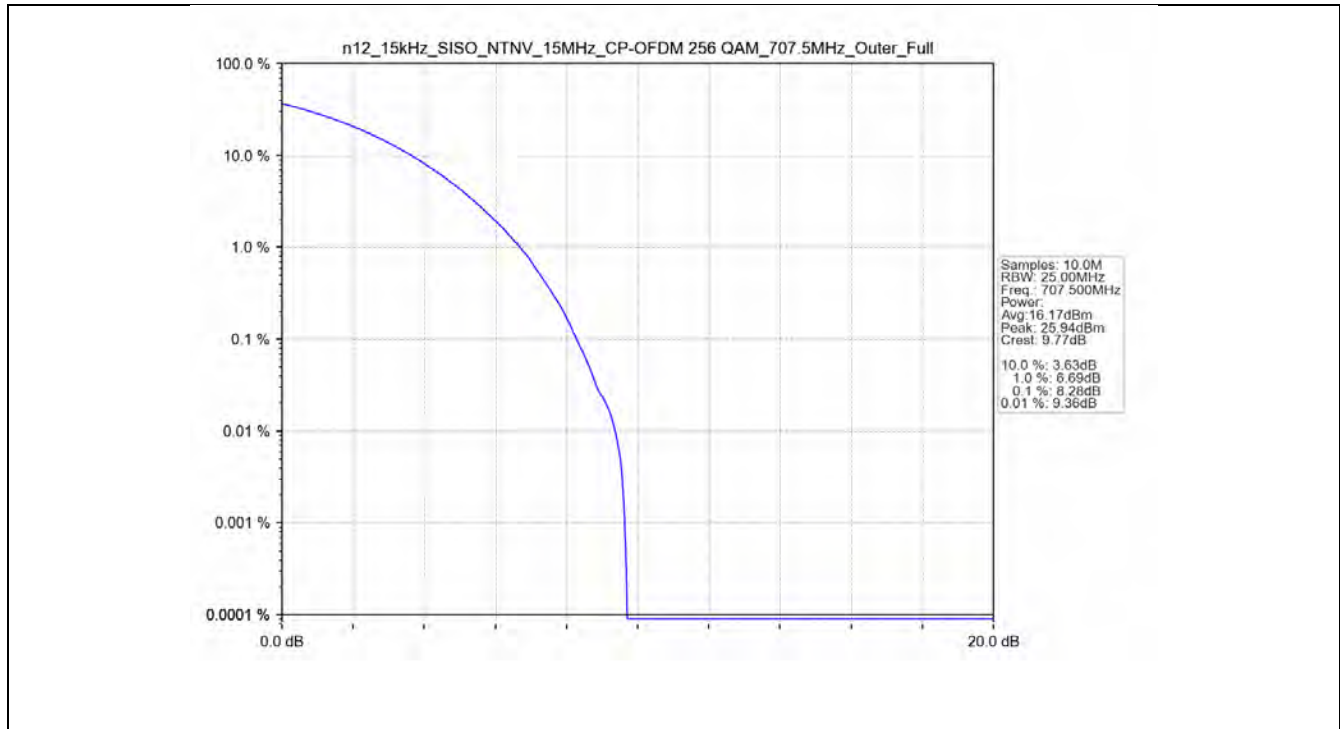


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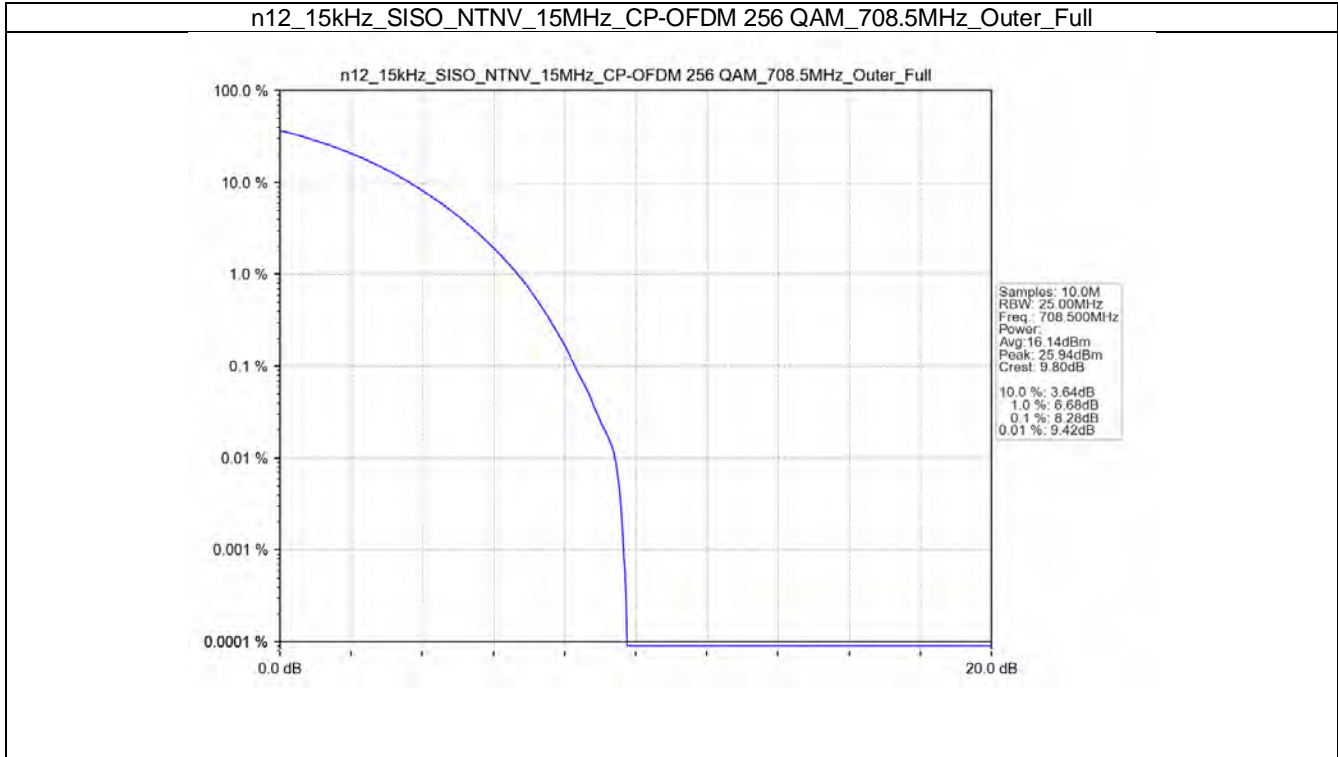


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5. Spurious Emission & Band Edges

5.1 15k_SISO_5MHz_NTNV

5.1.1 Test Result

5G NR n12 SCS=15kHz SISO 5MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission			Verdict
			Ant1	Ant2	Sum	
DFT-s-OFDM PI/2 BPSK	701.5	Edge_1RB_Left	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
		Inner_1RB_Left	Refer To Test Graph			Pass
	707.5	Edge_1RB_Left	Refer To Test Graph			Pass
		Edge_1RB_Right	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
713.5	Inner_1RB_Right	Refer To Test Graph			Pass	
	701.5	Edge_1RB_Left	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
707.5		Inner_1RB_Left	Refer To Test Graph			Pass
	Edge_1RB_Left	Refer To Test Graph			Pass	
	713.5	Edge_1RB_Right	Refer To Test Graph			Pass
Outer_Full		Refer To Test Graph			Pass	
Inner_1RB_Right		Refer To Test Graph			Pass	
CP-OFDM QPSK	701.5	Edge_1RB_Left	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
		Inner_1RB_Left	Refer To Test Graph			Pass
	707.5	Edge_1RB_Left	Refer To Test Graph			Pass
		Edge_1RB_Right	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
713.5	Inner_1RB_Right	Refer To Test Graph			Pass	



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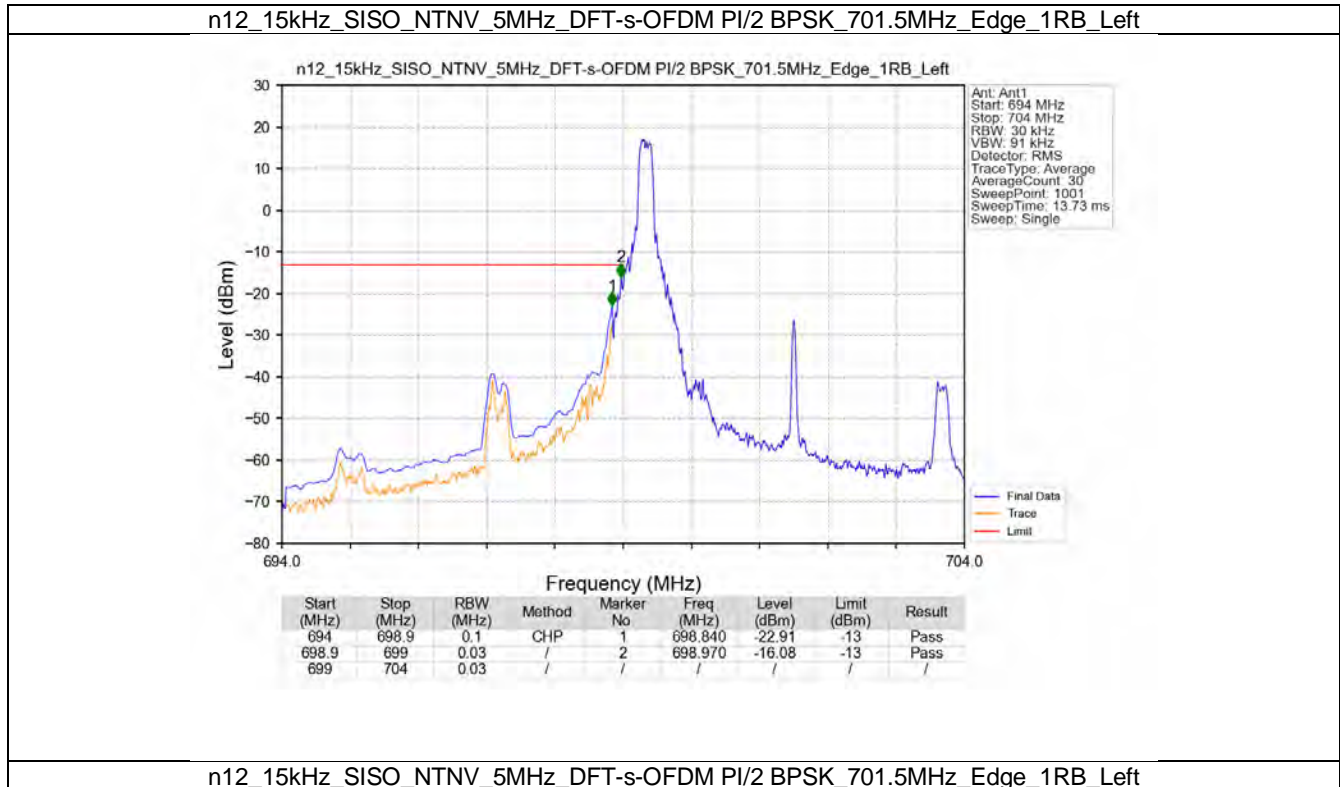
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5.1.2 Test Graph



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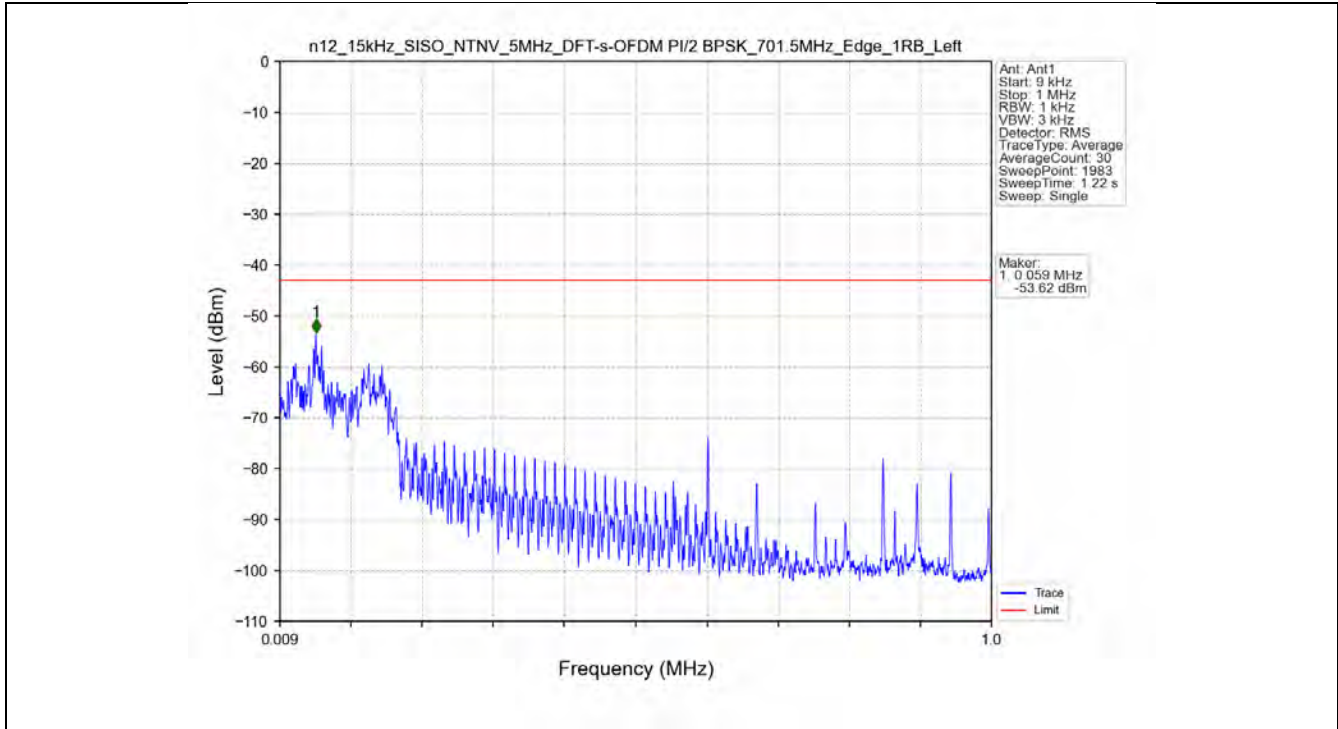


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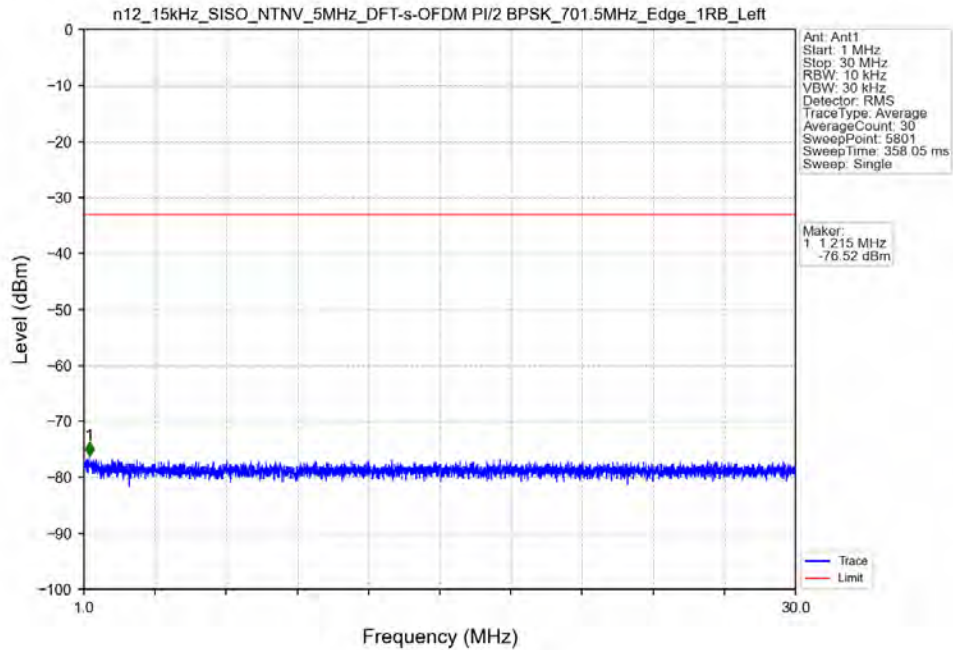
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n12_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_701.5MHz_Edge_1RB_Left



n12_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_701.5MHz_Edge_1RB_Left



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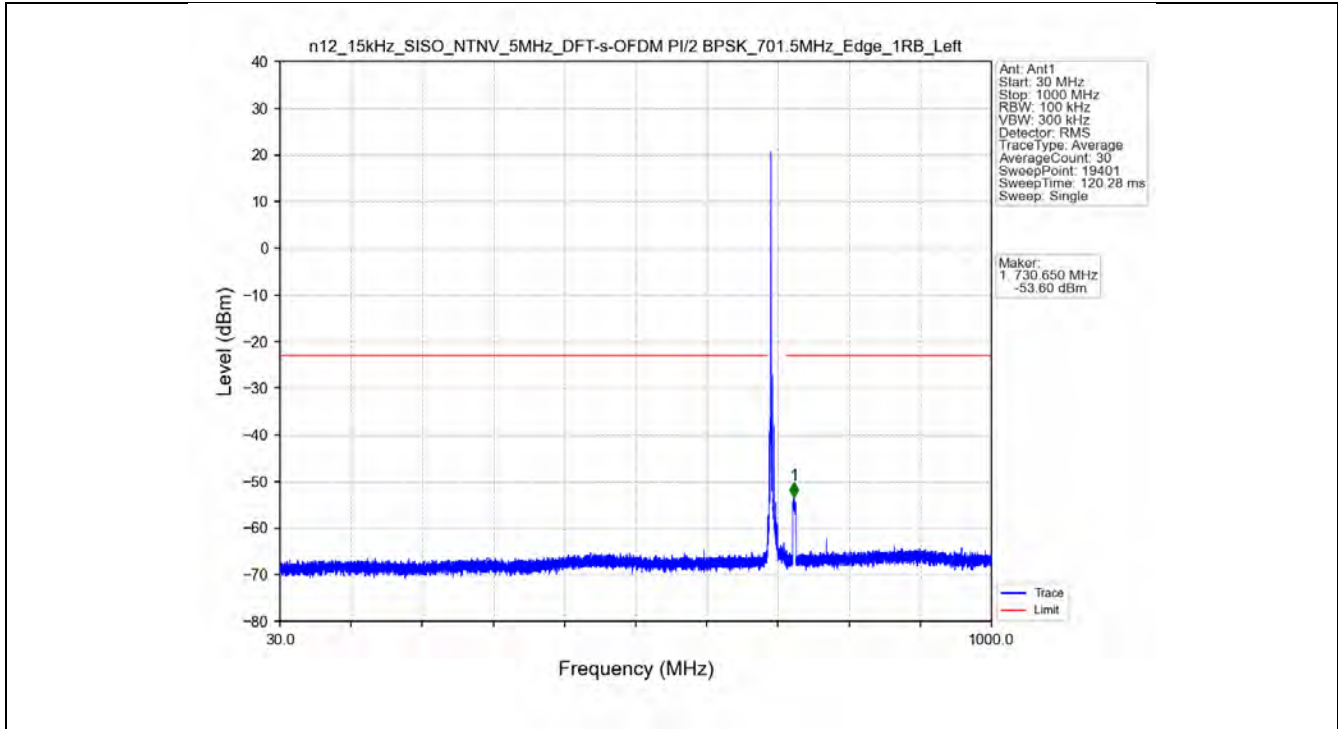


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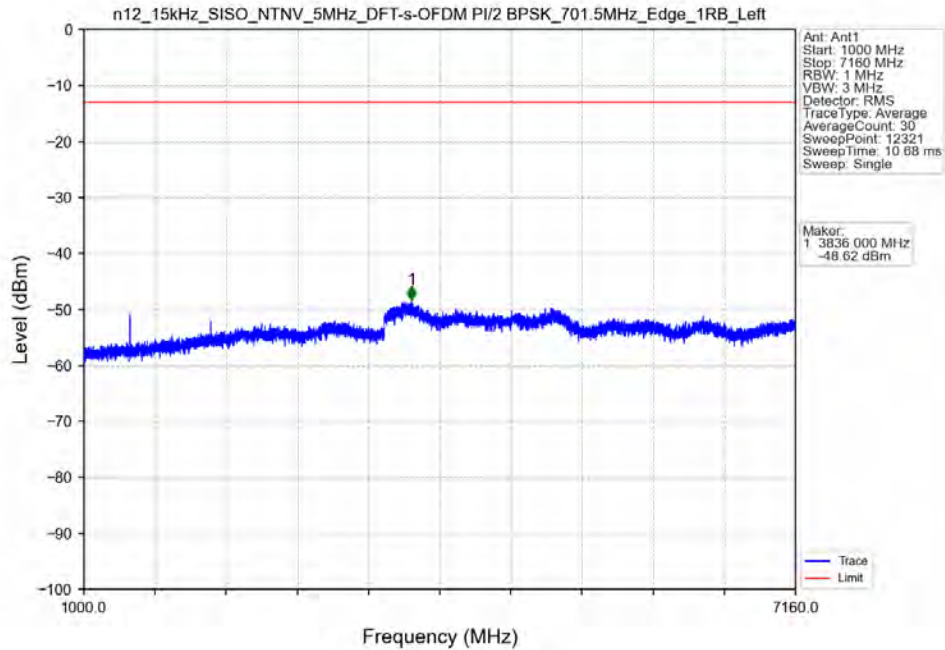
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n12_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_701.5MHz_Edge_1RB_Left



n12_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_701.5MHz_Outer_Full



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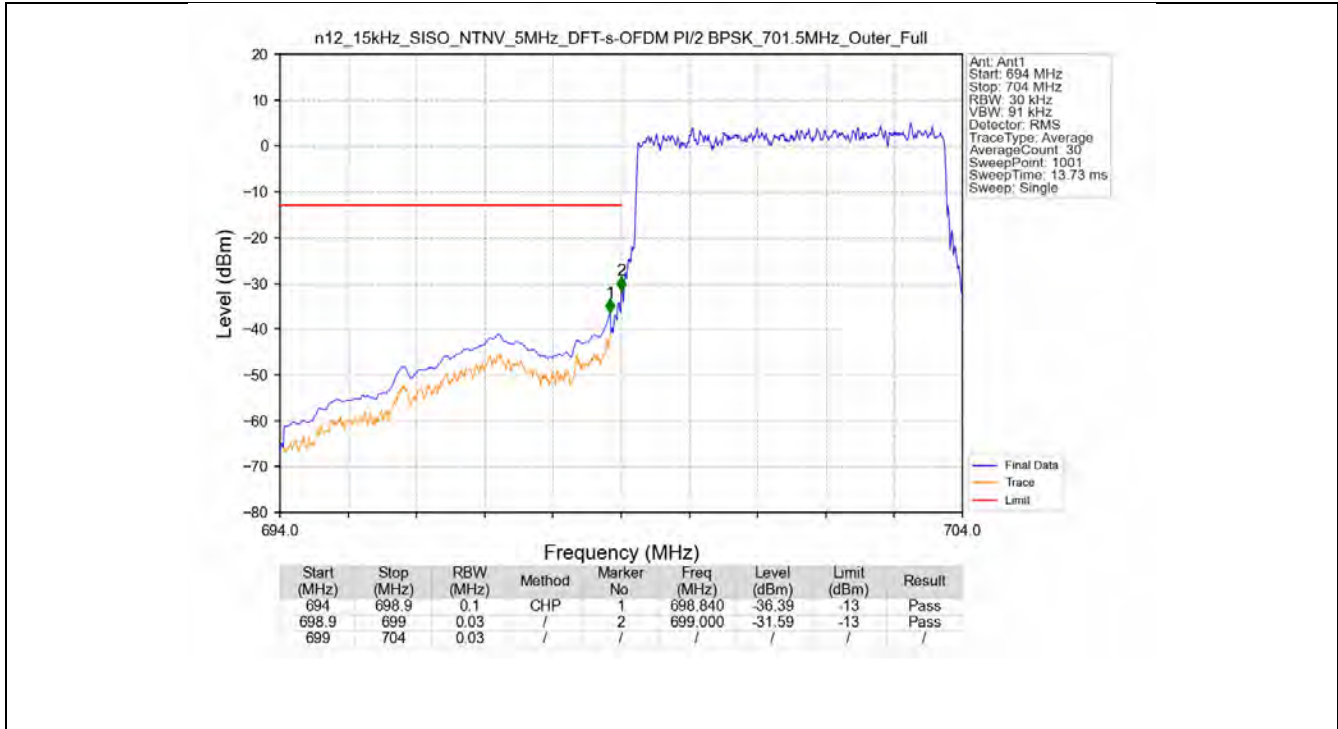


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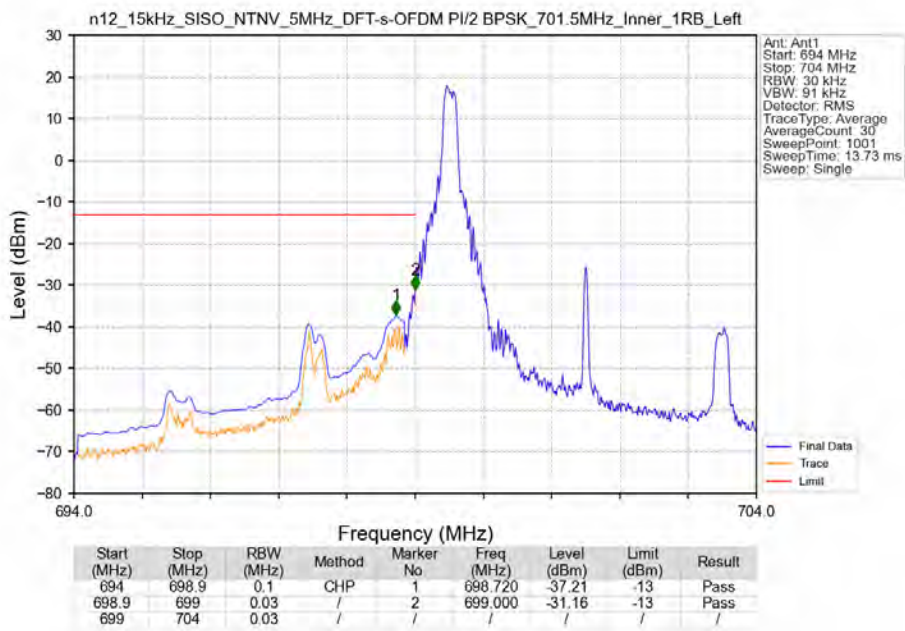
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n12_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_701.5MHz_Inner_1RB_Left



n12_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_707.5MHz_Edge_1RB_Left



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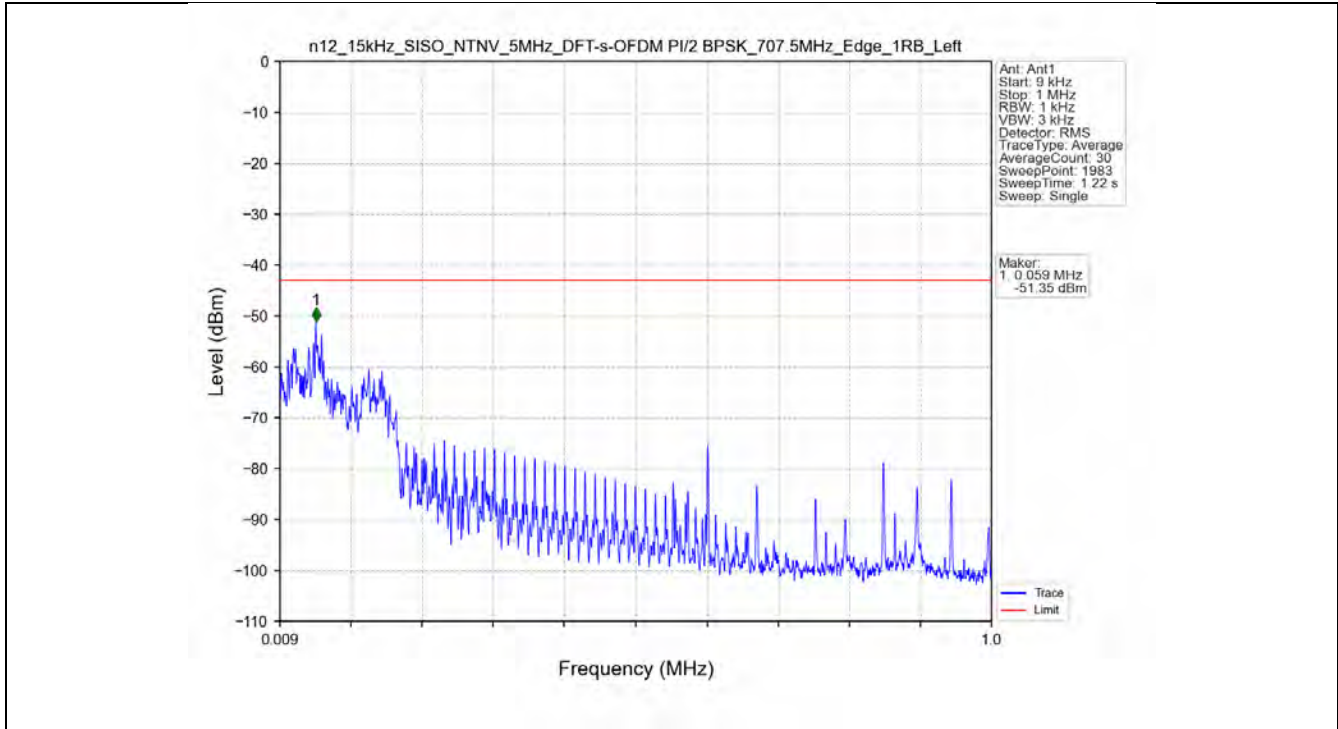


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