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Appendix B.38

NR Band n25



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1. Effective (Isotropic) Radiated Power Output Data

1.1 15k_SISO_5MHz_NTNV_EIRP

1.1.1 Test Result

5G NR n25 SCS=15kHz SISO 5MHz NTN										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			EIRP(dBm)			Limit	Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum		
DFT-s-OFDM PI/2 BPSK	1852.5	Edge_1RB_Left	23.23	/	/	24.33	/	/	<=33	Pass
		Edge_1RB_Right	23.08	/	/	24.18	/	/	<=33	Pass
		Outer_Full	23.19	/	/	24.29	/	/	<=33	Pass
		Inner_Full	23.15	/	/	24.25	/	/	<=33	Pass
		Inner_1RB_Left	23.23	/	/	24.33	/	/	<=33	Pass
		Inner_1RB_Right	23.11	/	/	24.21	/	/	<=33	Pass
	1882.5	Edge_1RB_Left	23.18	/	/	24.28	/	/	<=33	Pass
		Edge_1RB_Right	23.39	/	/	24.49	/	/	<=33	Pass
		Outer_Full	23.14	/	/	24.24	/	/	<=33	Pass
		Inner_Full	23.09	/	/	24.19	/	/	<=33	Pass
		Inner_1RB_Left	23.07	/	/	24.17	/	/	<=33	Pass
		Inner_1RB_Right	23.31	/	/	24.41	/	/	<=33	Pass
	1912.5	Edge_1RB_Left	23.18	/	/	24.28	/	/	<=33	Pass
		Edge_1RB_Right	23.30	/	/	24.4	/	/	<=33	Pass
		Outer_Full	23.21	/	/	24.31	/	/	<=33	Pass
		Inner_Full	23.20	/	/	24.3	/	/	<=33	Pass
		Inner_1RB_Left	23.11	/	/	24.21	/	/	<=33	Pass
		Inner_1RB_Right	23.24	/	/	24.34	/	/	<=33	Pass
DFT-s-OFDM QPSK	1852.5	Edge_1RB_Left	22.78	/	/	23.88	/	/	<=33	Pass
		Edge_1RB_Right	22.54	/	/	23.64	/	/	<=33	Pass
		Outer_Full	21.14	/	/	22.24	/	/	<=33	Pass
		Inner_Full	23.13	/	/	24.23	/	/	<=33	Pass
		Inner_1RB_Left	23.22	/	/	24.32	/	/	<=33	Pass
		Inner_1RB_Right	23.00	/	/	24.1	/	/	<=33	Pass
	1882.5	Edge_1RB_Left	22.60	/	/	23.7	/	/	<=33	Pass
		Edge_1RB_Right	22.80	/	/	23.9	/	/	<=33	Pass
		Outer_Full	21.19	/	/	22.29	/	/	<=33	Pass
		Inner_Full	23.09	/	/	24.19	/	/	<=33	Pass
		Inner_1RB_Left	22.99	/	/	24.09	/	/	<=33	Pass
		Inner_1RB_Right	23.22	/	/	24.32	/	/	<=33	Pass
	1912.5	Edge_1RB_Left	22.76	/	/	23.86	/	/	<=33	Pass
		Edge_1RB_Right	22.87	/	/	23.97	/	/	<=33	Pass
		Outer_Full	21.16	/	/	22.26	/	/	<=33	Pass
		Inner_Full	23.12	/	/	24.22	/	/	<=33	Pass
		Inner_1RB_Left	23.26	/	/	24.36	/	/	<=33	Pass
		Inner_1RB_Right	23.36	/	/	24.46	/	/	<=33	Pass
DFT-s-OFDM 16 QAM	1852.5	Edge_1RB_Left	21.75	/	/	22.85	/	/	<=33	Pass
		Edge_1RB_Right	21.61	/	/	22.71	/	/	<=33	Pass



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		Outer_Full	20.18	/	/	21.28	/	/	<=33	Pass
		Inner_Full	22.73	/	/	23.83	/	/	<=33	Pass
		Inner_1RB_Left	22.69	/	/	23.79	/	/	<=33	Pass
		Inner_1RB_Right	22.53	/	/	23.63	/	/	<=33	Pass
	1882.5	Edge_1RB_Left	21.58	/	/	22.68	/	/	<=33	Pass
		Edge_1RB_Right	21.83	/	/	22.93	/	/	<=33	Pass
		Outer_Full	20.21	/	/	21.31	/	/	<=33	Pass
		Inner_Full	22.77	/	/	23.87	/	/	<=33	Pass
	1912.5	Inner_1RB_Left	22.54	/	/	23.64	/	/	<=33	Pass
		Inner_1RB_Right	22.75	/	/	23.85	/	/	<=33	Pass
		Edge_1RB_Left	21.62	/	/	22.72	/	/	<=33	Pass
		Edge_1RB_Right	21.73	/	/	22.83	/	/	<=33	Pass
DFT-s-OFDM 64 QAM	1852.5	Outer_Full	20.19	/	/	21.29	/	/	<=33	Pass
		Inner_Full	22.84	/	/	23.94	/	/	<=33	Pass
		Inner_1RB_Left	22.59	/	/	23.69	/	/	<=33	Pass
		Inner_1RB_Right	22.63	/	/	23.73	/	/	<=33	Pass
	1882.5	Edge_1RB_Left	21.48	/	/	22.58	/	/	<=33	Pass
		Edge_1RB_Right	21.25	/	/	22.35	/	/	<=33	Pass
		Outer_Full	19.60	/	/	20.7	/	/	<=33	Pass
		Inner_Full	21.21	/	/	22.31	/	/	<=33	Pass
	1912.5	Inner_1RB_Left	21.46	/	/	22.56	/	/	<=33	Pass
		Inner_1RB_Right	21.22	/	/	22.32	/	/	<=33	Pass
		Edge_1RB_Left	21.23	/	/	22.33	/	/	<=33	Pass
		Edge_1RB_Right	21.49	/	/	22.59	/	/	<=33	Pass
DFT-s-OFDM 256 QAM	1852.5	Outer_Full	19.69	/	/	20.79	/	/	<=33	Pass
		Inner_Full	21.25	/	/	22.35	/	/	<=33	Pass
		Inner_1RB_Left	21.21	/	/	22.31	/	/	<=33	Pass
		Inner_1RB_Right	21.51	/	/	22.61	/	/	<=33	Pass
	1912.5	Edge_1RB_Left	21.27	/	/	22.37	/	/	<=33	Pass
		Edge_1RB_Right	21.39	/	/	22.49	/	/	<=33	Pass
DFT-s-OFDM 256 QAM	1852.5	Outer_Full	19.69	/	/	20.79	/	/	<=33	Pass
		Inner_Full	21.27	/	/	22.37	/	/	<=33	Pass
		Inner_1RB_Left	21.31	/	/	22.41	/	/	<=33	Pass
		Inner_1RB_Right	21.43	/	/	22.53	/	/	<=33	Pass
	1882.5	Edge_1RB_Left	18.71	/	/	19.81	/	/	<=33	Pass
		Edge_1RB_Right	18.55	/	/	19.65	/	/	<=33	Pass
		Outer_Full	19.08	/	/	20.18	/	/	<=33	Pass
		Inner_Full	19.08	/	/	20.18	/	/	<=33	Pass
		Inner_1RB_Left	18.73	/	/	19.83	/	/	<=33	Pass
		Inner_1RB_Right	18.59	/	/	19.69	/	/	<=33	Pass
1912.5	Edge_1RB_Left	18.62	/	/	19.72	/	/	<=33	Pass	
	Edge_1RB_Right	18.79	/	/	19.89	/	/	<=33	Pass	
	Outer_Full	19.12	/	/	20.22	/	/	<=33	Pass	
	Inner_Full	19.16	/	/	20.26	/	/	<=33	Pass	
	1912.5	Inner_1RB_Left	18.53	/	/	19.63	/	/	<=33	Pass
		Inner_1RB_Right	18.74	/	/	19.84	/	/	<=33	Pass
	1912.5	Edge_1RB_Left	18.78	/	/	19.88	/	/	<=33	Pass
		Edge_1RB_Right	18.73	/	/	19.83	/	/	<=33	Pass



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CP-OFDM QPSK	1852.5	Outer_Full	19.30	/	/	20.4	/	/	<=33	Pass		
		Inner_Full	19.28	/	/	20.38	/	/	<=33	Pass		
		Inner_1RB_Left	18.61	/	/	19.71	/	/	<=33	Pass		
		Inner_1RB_Right	18.80	/	/	19.9	/	/	<=33	Pass		
	1882.5	1852.5	Edge_1RB_Left	20.86	/	/	21.96	/	/	<=33	Pass	
			Edge_1RB_Right	20.55	/	/	21.65	/	/	<=33	Pass	
			Outer_Full	20.63	/	/	21.73	/	/	<=33	Pass	
			Inner_Full	22.10	/	/	23.2	/	/	<=33	Pass	
		1882.5	1852.5	Inner_1RB_Left	22.17	/	/	23.27	/	/	<=33	Pass
				Inner_1RB_Right	21.99	/	/	23.09	/	/	<=33	Pass
				Edge_1RB_Left	20.58	/	/	21.68	/	/	<=33	Pass
				Edge_1RB_Right	20.84	/	/	21.94	/	/	<=33	Pass
1912.5		1882.5	Outer_Full	20.68	/	/	21.78	/	/	<=33	Pass	
			Inner_Full	22.21	/	/	23.31	/	/	<=33	Pass	
			Inner_1RB_Left	21.91	/	/	23.01	/	/	<=33	Pass	
			Inner_1RB_Right	22.24	/	/	23.34	/	/	<=33	Pass	
1912.5	1852.5	Edge_1RB_Left	20.71	/	/	21.81	/	/	<=33	Pass		
		Edge_1RB_Right	20.89	/	/	21.99	/	/	<=33	Pass		
		Outer_Full	20.76	/	/	21.86	/	/	<=33	Pass		
		Inner_Full	22.24	/	/	23.34	/	/	<=33	Pass		
	1882.5	1912.5	Inner_1RB_Left	22.15	/	/	23.25	/	/	<=33	Pass	
			Inner_1RB_Right	22.29	/	/	23.39	/	/	<=33	Pass	
			Edge_1RB_Left	20.83	/	/	21.93	/	/	<=33	Pass	
			Edge_1RB_Right	20.57	/	/	21.67	/	/	<=33	Pass	
	CP-OFDM 16 QAM	1852.5	Outer_Full	19.18	/	/	20.28	/	/	<=33	Pass	
			Inner_Full	21.52	/	/	22.62	/	/	<=33	Pass	
			Inner_1RB_Left	21.83	/	/	22.93	/	/	<=33	Pass	
			Inner_1RB_Right	21.67	/	/	22.77	/	/	<=33	Pass	
1882.5		1852.5	Edge_1RB_Left	20.58	/	/	21.68	/	/	<=33	Pass	
			Edge_1RB_Right	20.76	/	/	21.86	/	/	<=33	Pass	
			Outer_Full	19.21	/	/	20.31	/	/	<=33	Pass	
			Inner_Full	21.53	/	/	22.63	/	/	<=33	Pass	
1912.5		1882.5	Inner_1RB_Left	21.61	/	/	22.71	/	/	<=33	Pass	
			Inner_1RB_Right	21.96	/	/	23.06	/	/	<=33	Pass	
			Edge_1RB_Left	20.62	/	/	21.72	/	/	<=33	Pass	
			Edge_1RB_Right	20.76	/	/	21.86	/	/	<=33	Pass	
CP-OFDM 64 QAM	1852.5	Outer_Full	19.12	/	/	20.22	/	/	<=33	Pass		
		Inner_Full	21.57	/	/	22.67	/	/	<=33	Pass		
		Inner_1RB_Left	21.75	/	/	22.85	/	/	<=33	Pass		
		Inner_1RB_Right	21.80	/	/	22.9	/	/	<=33	Pass		
	1882.5	1852.5	Edge_1RB_Left	20.36	/	/	21.46	/	/	<=33	Pass	
			Edge_1RB_Right	20.12	/	/	21.22	/	/	<=33	Pass	
			Outer_Full	18.58	/	/	19.68	/	/	<=33	Pass	
			Inner_Full	20.14	/	/	21.24	/	/	<=33	Pass	
	1882.5	1882.5	Inner_1RB_Left	20.28	/	/	21.38	/	/	<=33	Pass	
			Inner_1RB_Right	20.09	/	/	21.19	/	/	<=33	Pass	
			Edge_1RB_Left	20.14	/	/	21.24	/	/	<=33	Pass	
			Edge_1RB_Right	20.38	/	/	21.48	/	/	<=33	Pass	



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		Outer_Full	18.64	/	/	19.74	/	/	<=33	Pass		
		Inner_Full	20.22	/	/	21.32	/	/	<=33	Pass		
		Inner_1RB_Left	20.12	/	/	21.22	/	/	<=33	Pass		
		Inner_1RB_Right	20.33	/	/	21.43	/	/	<=33	Pass		
	1912.5	Edge_1RB_Left	20.09	/	/	21.19	/	/	<=33	Pass		
		Edge_1RB_Right	20.41	/	/	21.51	/	/	<=33	Pass		
		Outer_Full	18.71	/	/	19.81	/	/	<=33	Pass		
		Inner_Full	20.26	/	/	21.36	/	/	<=33	Pass		
		Inner_1RB_Left	20.24	/	/	21.34	/	/	<=33	Pass		
		Inner_1RB_Right	20.32	/	/	21.42	/	/	<=33	Pass		
		CP-OFDM 256 QAM	1852.5	Edge_1RB_Left	16.80	/	/	17.9	/	/	<=33	Pass
				Edge_1RB_Right	16.56	/	/	17.66	/	/	<=33	Pass
Outer_Full	17.07			/	/	18.17	/	/	<=33	Pass		
Inner_Full	17.17			/	/	18.27	/	/	<=33	Pass		
Inner_1RB_Left	16.82			/	/	17.92	/	/	<=33	Pass		
Inner_1RB_Right	16.61			/	/	17.71	/	/	<=33	Pass		
1882.5	Edge_1RB_Left		16.67	/	/	17.77	/	/	<=33	Pass		
	Edge_1RB_Right		16.82	/	/	17.92	/	/	<=33	Pass		
	Outer_Full		17.15	/	/	18.25	/	/	<=33	Pass		
	Inner_Full		17.24	/	/	18.34	/	/	<=33	Pass		
	Inner_1RB_Left		16.61	/	/	17.71	/	/	<=33	Pass		
	Inner_1RB_Right		16.77	/	/	17.87	/	/	<=33	Pass		
1912.5	Edge_1RB_Left	16.88	/	/	17.98	/	/	<=33	Pass			
	Edge_1RB_Right	16.99	/	/	18.09	/	/	<=33	Pass			
	Outer_Full	17.34	/	/	18.44	/	/	<=33	Pass			
	Inner_Full	17.31	/	/	18.41	/	/	<=33	Pass			
	Inner_1RB_Left	16.85	/	/	17.95	/	/	<=33	Pass			
	Inner_1RB_Right	16.93	/	/	18.03	/	/	<=33	Pass			
Note1: Antenna Gain: Ant1: 1.1dBi; Note2: EIRP=Conducted Power+Antenna Gain												

1.2 15k_SISO_10MHz_NTNV_EIRP

1.2.1 Test Result

5G NR n25 SCS=15kHz SISO 10MHz NTN										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			EIRP(dBm)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	1855	Edge_1RB_Left	23.23	/	/	24.33	/	/	<=33	Pass
		Edge_1RB_Right	22.79	/	/	23.89	/	/	<=33	Pass
		Outer_Full	23.08	/	/	24.18	/	/	<=33	Pass
		Inner_Full	23.13	/	/	24.23	/	/	<=33	Pass
		Inner_1RB_Left	23.27	/	/	24.37	/	/	<=33	Pass
		Inner_1RB_Right	22.81	/	/	23.91	/	/	<=33	Pass
	1882.5	Edge_1RB_Left	22.83	/	/	23.93	/	/	<=33	Pass
		Edge_1RB_Right	23.36	/	/	24.46	/	/	<=33	Pass



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		Outer_Full	23.17	/	/	24.27	/	/	<=33	Pass		
		Inner_Full	23.13	/	/	24.23	/	/	<=33	Pass		
		Inner_1RB_Left	22.87	/	/	23.97	/	/	<=33	Pass		
		Inner_1RB_Right	23.43	/	/	24.53	/	/	<=33	Pass		
	1910	Edge_1RB_Left	23.19	/	/	24.29	/	/	<=33	Pass		
		Edge_1RB_Right	23.37	/	/	24.47	/	/	<=33	Pass		
		Outer_Full	23.33	/	/	24.43	/	/	<=33	Pass		
		Inner_Full	23.22	/	/	24.32	/	/	<=33	Pass		
		Inner_1RB_Left	23.18	/	/	24.28	/	/	<=33	Pass		
		Inner_1RB_Right	23.36	/	/	24.46	/	/	<=33	Pass		
		DFT-s-OFDM QPSK	1855	Edge_1RB_Left	22.65	/	/	23.75	/	/	<=33	Pass
				Edge_1RB_Right	22.28	/	/	23.38	/	/	<=33	Pass
Outer_Full	21.15			/	/	22.25	/	/	<=33	Pass		
Inner_Full	23.13			/	/	24.23	/	/	<=33	Pass		
1882.5	Inner_1RB_Left		23.29	/	/	24.39	/	/	<=33	Pass		
	Inner_1RB_Right		22.85	/	/	23.95	/	/	<=33	Pass		
	Edge_1RB_Left		22.42	/	/	23.52	/	/	<=33	Pass		
	Edge_1RB_Right		22.90	/	/	24	/	/	<=33	Pass		
1910	Outer_Full		21.20	/	/	22.3	/	/	<=33	Pass		
	Inner_Full		23.15	/	/	24.25	/	/	<=33	Pass		
	Inner_1RB_Left		22.90	/	/	24	/	/	<=33	Pass		
	Inner_1RB_Right		23.43	/	/	24.53	/	/	<=33	Pass		
	Edge_1RB_Left	22.77	/	/	23.87	/	/	<=33	Pass			
	Edge_1RB_Right	22.97	/	/	24.07	/	/	<=33	Pass			
	Outer_Full	21.25	/	/	22.35	/	/	<=33	Pass			
	Inner_Full	23.19	/	/	24.29	/	/	<=33	Pass			
DFT-s-OFDM 16 QAM	1855	Inner_1RB_Left	23.17	/	/	24.27	/	/	<=33	Pass		
		Inner_1RB_Right	23.32	/	/	24.42	/	/	<=33	Pass		
		Edge_1RB_Left	21.75	/	/	22.85	/	/	<=33	Pass		
		Edge_1RB_Right	21.29	/	/	22.39	/	/	<=33	Pass		
		Outer_Full	20.05	/	/	21.15	/	/	<=33	Pass		
		Inner_Full	22.65	/	/	23.75	/	/	<=33	Pass		
	1882.5	Inner_1RB_Left	22.76	/	/	23.86	/	/	<=33	Pass		
		Inner_1RB_Right	22.25	/	/	23.35	/	/	<=33	Pass		
		Edge_1RB_Left	21.39	/	/	22.49	/	/	<=33	Pass		
		Edge_1RB_Right	21.88	/	/	22.98	/	/	<=33	Pass		
		Outer_Full	20.19	/	/	21.29	/	/	<=33	Pass		
		Inner_Full	22.66	/	/	23.76	/	/	<=33	Pass		
1910	Inner_1RB_Left	22.31	/	/	23.41	/	/	<=33	Pass			
	Inner_1RB_Right	22.76	/	/	23.86	/	/	<=33	Pass			
	Edge_1RB_Left	21.67	/	/	22.77	/	/	<=33	Pass			
	Edge_1RB_Right	21.60	/	/	22.7	/	/	<=33	Pass			
	Outer_Full	20.14	/	/	21.24	/	/	<=33	Pass			
	Inner_Full	22.71	/	/	23.81	/	/	<=33	Pass			
DFT-s-OFDM 64 QAM	1855	Inner_1RB_Left	22.50	/	/	23.6	/	/	<=33	Pass		
		Inner_1RB_Right	22.74	/	/	23.84	/	/	<=33	Pass		
		Edge_1RB_Left	21.40	/	/	22.5	/	/	<=33	Pass		
		Edge_1RB_Right	21.04	/	/	22.14	/	/	<=33	Pass		



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		Outer_Full	19.61	/	/	20.71	/	/	<=33	Pass
		Inner_Full	21.14	/	/	22.24	/	/	<=33	Pass
		Inner_1RB_Left	21.51	/	/	22.61	/	/	<=33	Pass
		Inner_1RB_Right	21.01	/	/	22.11	/	/	<=33	Pass
	1882.5	Edge_1RB_Left	21.06	/	/	22.16	/	/	<=33	Pass
		Edge_1RB_Right	21.45	/	/	22.55	/	/	<=33	Pass
		Outer_Full	19.74	/	/	20.84	/	/	<=33	Pass
		Inner_Full	21.19	/	/	22.29	/	/	<=33	Pass
	1910	Inner_1RB_Left	20.99	/	/	22.09	/	/	<=33	Pass
		Inner_1RB_Right	21.51	/	/	22.61	/	/	<=33	Pass
		Edge_1RB_Left	21.23	/	/	22.33	/	/	<=33	Pass
		Edge_1RB_Right	21.72	/	/	22.82	/	/	<=33	Pass
DFT-s-OFDM 256 QAM	1855	Outer_Full	19.70	/	/	20.8	/	/	<=33	Pass
		Inner_Full	21.18	/	/	22.28	/	/	<=33	Pass
		Inner_1RB_Left	21.33	/	/	22.43	/	/	<=33	Pass
		Inner_1RB_Right	21.55	/	/	22.65	/	/	<=33	Pass
	1882.5	Edge_1RB_Left	18.76	/	/	19.86	/	/	<=33	Pass
		Edge_1RB_Right	18.21	/	/	19.31	/	/	<=33	Pass
		Outer_Full	19.09	/	/	20.19	/	/	<=33	Pass
		Inner_Full	19.02	/	/	20.12	/	/	<=33	Pass
	1910	Inner_1RB_Left	18.77	/	/	19.87	/	/	<=33	Pass
		Inner_1RB_Right	18.30	/	/	19.4	/	/	<=33	Pass
		Edge_1RB_Left	18.40	/	/	19.5	/	/	<=33	Pass
		Edge_1RB_Right	18.92	/	/	20.02	/	/	<=33	Pass
CP-OFDM QPSK	1855	Outer_Full	19.07	/	/	20.17	/	/	<=33	Pass
		Inner_Full	19.11	/	/	20.21	/	/	<=33	Pass
		Inner_1RB_Left	18.37	/	/	19.47	/	/	<=33	Pass
		Inner_1RB_Right	18.94	/	/	20.04	/	/	<=33	Pass
	1910	Edge_1RB_Left	18.64	/	/	19.74	/	/	<=33	Pass
		Edge_1RB_Right	18.86	/	/	19.96	/	/	<=33	Pass
		Outer_Full	19.16	/	/	20.26	/	/	<=33	Pass
		Inner_Full	19.23	/	/	20.33	/	/	<=33	Pass
	1882.5	Inner_1RB_Left	18.68	/	/	19.78	/	/	<=33	Pass
		Inner_1RB_Right	18.92	/	/	20.02	/	/	<=33	Pass
		Edge_1RB_Left	20.80	/	/	21.9	/	/	<=33	Pass
		Edge_1RB_Right	20.09	/	/	21.19	/	/	<=33	Pass
Outer_Full		20.55	/	/	21.65	/	/	<=33	Pass	
Inner_Full		22.08	/	/	23.18	/	/	<=33	Pass	
Inner_1RB_Left		22.11	/	/	23.21	/	/	<=33	Pass	
Inner_1RB_Right		21.66	/	/	22.76	/	/	<=33	Pass	
1910	Edge_1RB_Left	20.40	/	/	21.5	/	/	<=33	Pass	
	Edge_1RB_Right	20.89	/	/	21.99	/	/	<=33	Pass	
	Outer_Full	20.68	/	/	21.78	/	/	<=33	Pass	
	Inner_Full	22.13	/	/	23.23	/	/	<=33	Pass	
1882.5	Inner_1RB_Left	21.76	/	/	22.86	/	/	<=33	Pass	
	Inner_1RB_Right	22.27	/	/	23.37	/	/	<=33	Pass	
	Edge_1RB_Left	20.68	/	/	21.78	/	/	<=33	Pass	
	Edge_1RB_Right	20.83	/	/	21.93	/	/	<=33	Pass	



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CP-OFDM 16 QAM		Outer_Full	20.75	/	/	21.85	/	/	<=33	Pass		
		Inner_Full	22.22	/	/	23.32	/	/	<=33	Pass		
		Inner_1RB_Left	22.09	/	/	23.19	/	/	<=33	Pass		
		Inner_1RB_Right	22.23	/	/	23.33	/	/	<=33	Pass		
	1855		Edge_1RB_Left	20.82	/	/	21.92	/	/	<=33	Pass	
			Edge_1RB_Right	20.24	/	/	21.34	/	/	<=33	Pass	
			Outer_Full	19.07	/	/	20.17	/	/	<=33	Pass	
			Inner_Full	21.63	/	/	22.73	/	/	<=33	Pass	
		1882.5		Inner_1RB_Left	21.87	/	/	22.97	/	/	<=33	Pass
				Inner_1RB_Right	21.35	/	/	22.45	/	/	<=33	Pass
				Edge_1RB_Left	20.26	/	/	21.36	/	/	<=33	Pass
				Edge_1RB_Right	20.81	/	/	21.91	/	/	<=33	Pass
1910				Outer_Full	19.19	/	/	20.29	/	/	<=33	Pass
				Inner_Full	21.66	/	/	22.76	/	/	<=33	Pass
				Inner_1RB_Left	21.44	/	/	22.54	/	/	<=33	Pass
				Inner_1RB_Right	21.95	/	/	23.05	/	/	<=33	Pass
	CP-OFDM 64 QAM			Edge_1RB_Left	20.79	/	/	21.89	/	/	<=33	Pass
				Edge_1RB_Right	21.29	/	/	22.39	/	/	<=33	Pass
				Outer_Full	19.16	/	/	20.26	/	/	<=33	Pass
				Inner_Full	21.62	/	/	22.72	/	/	<=33	Pass
		1855		Inner_1RB_Left	21.67	/	/	22.77	/	/	<=33	Pass
				Inner_1RB_Right	21.84	/	/	22.94	/	/	<=33	Pass
				Edge_1RB_Left	20.36	/	/	21.46	/	/	<=33	Pass
				Edge_1RB_Right	19.88	/	/	20.98	/	/	<=33	Pass
1882.5				Outer_Full	18.64	/	/	19.74	/	/	<=33	Pass
				Inner_Full	20.13	/	/	21.23	/	/	<=33	Pass
				Inner_1RB_Left	20.12	/	/	21.22	/	/	<=33	Pass
				Inner_1RB_Right	19.85	/	/	20.95	/	/	<=33	Pass
	1910			Edge_1RB_Left	19.85	/	/	20.95	/	/	<=33	Pass
				Edge_1RB_Right	20.41	/	/	21.51	/	/	<=33	Pass
				Outer_Full	18.64	/	/	19.74	/	/	<=33	Pass
				Inner_Full	20.25	/	/	21.35	/	/	<=33	Pass
		CP-OFDM 256 QAM		Inner_1RB_Left	19.86	/	/	20.96	/	/	<=33	Pass
				Inner_1RB_Right	20.29	/	/	21.39	/	/	<=33	Pass
				Edge_1RB_Left	20.14	/	/	21.24	/	/	<=33	Pass
				Edge_1RB_Right	19.93	/	/	21.03	/	/	<=33	Pass
1855				Outer_Full	18.65	/	/	19.75	/	/	<=33	Pass
				Inner_Full	20.20	/	/	21.3	/	/	<=33	Pass
				Inner_1RB_Left	20.13	/	/	21.23	/	/	<=33	Pass
				Inner_1RB_Right	20.22	/	/	21.32	/	/	<=33	Pass
	1882.5			Edge_1RB_Left	16.70	/	/	17.8	/	/	<=33	Pass
				Edge_1RB_Right	16.34	/	/	17.44	/	/	<=33	Pass
				Outer_Full	17.05	/	/	18.15	/	/	<=33	Pass
				Inner_Full	17.07	/	/	18.17	/	/	<=33	Pass
		CP-OFDM 256 QAM		Inner_1RB_Left	16.78	/	/	17.88	/	/	<=33	Pass
				Inner_1RB_Right	16.34	/	/	17.44	/	/	<=33	Pass
				Edge_1RB_Left	16.39	/	/	17.49	/	/	<=33	Pass
				Edge_1RB_Right	16.96	/	/	18.06	/	/	<=33	Pass



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		Outer_Full	17.12	/	/	18.22	/	/	<=33	Pass
		Inner_Full	17.14	/	/	18.24	/	/	<=33	Pass
		Inner_1RB_Left	16.41	/	/	17.51	/	/	<=33	Pass
		Inner_1RB_Right	16.94	/	/	18.04	/	/	<=33	Pass
	1910	Edge_1RB_Left	16.68	/	/	17.78	/	/	<=33	Pass
		Edge_1RB_Right	16.84	/	/	17.94	/	/	<=33	Pass
		Outer_Full	17.25	/	/	18.35	/	/	<=33	Pass
		Inner_Full	17.31	/	/	18.41	/	/	<=33	Pass
		Inner_1RB_Left	16.81	/	/	17.91	/	/	<=33	Pass
		Inner_1RB_Right	17.07	/	/	18.17	/	/	<=33	Pass
Note1: Antenna Gain: Ant1: 1.1dBi; Note2: EIRP=Conducted Power+Antenna Gain										

1.3 15k_SISO_15MHz_NTNV_EIRP

1.3.1 Test Result

5G NR n25 SCS=15kHz SISO 15MHz NTN										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			EIRP(dBm)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	1857.5	Edge_1RB_Left	23.32	/	/	24.42	/	/	<=33	Pass
		Edge_1RB_Right	22.56	/	/	23.66	/	/	<=33	Pass
		Outer_Full	22.82	/	/	23.92	/	/	<=33	Pass
		Inner_Full	22.87	/	/	23.97	/	/	<=33	Pass
		Inner_1RB_Left	23.20	/	/	24.3	/	/	<=33	Pass
		Inner_1RB_Right	22.55	/	/	23.65	/	/	<=33	Pass
	1882.5	Edge_1RB_Left	22.77	/	/	23.87	/	/	<=33	Pass
		Edge_1RB_Right	23.37	/	/	24.47	/	/	<=33	Pass
		Outer_Full	23.18	/	/	24.28	/	/	<=33	Pass
		Inner_Full	23.12	/	/	24.22	/	/	<=33	Pass
		Inner_1RB_Left	22.79	/	/	23.89	/	/	<=33	Pass
		Inner_1RB_Right	23.32	/	/	24.42	/	/	<=33	Pass
	1907.5	Edge_1RB_Left	23.21	/	/	24.31	/	/	<=33	Pass
		Edge_1RB_Right	23.25	/	/	24.35	/	/	<=33	Pass
		Outer_Full	23.22	/	/	24.32	/	/	<=33	Pass
		Inner_Full	23.10	/	/	24.2	/	/	<=33	Pass
		Inner_1RB_Left	23.18	/	/	24.28	/	/	<=33	Pass
		Inner_1RB_Right	23.30	/	/	24.4	/	/	<=33	Pass
DFT-s-OFDM QPSK	1857.5	Edge_1RB_Left	22.75	/	/	23.85	/	/	<=33	Pass
		Edge_1RB_Right	22.10	/	/	23.2	/	/	<=33	Pass
		Outer_Full	20.85	/	/	21.95	/	/	<=33	Pass
		Inner_Full	22.87	/	/	23.97	/	/	<=33	Pass
		Inner_1RB_Left	23.19	/	/	24.29	/	/	<=33	Pass
		Inner_1RB_Right	22.66	/	/	23.76	/	/	<=33	Pass
	1882.5	Edge_1RB_Left	22.30	/	/	23.4	/	/	<=33	Pass
		Edge_1RB_Right	22.87	/	/	23.97	/	/	<=33	Pass



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DFT-s-OFDM 16 QAM	1907.5	Outer_Full	21.21	/	/	22.31	/	/	<=33	Pass	
		Inner_Full	23.14	/	/	24.24	/	/	<=33	Pass	
		Inner_1RB_Left	22.75	/	/	23.85	/	/	<=33	Pass	
		Inner_1RB_Right	23.37	/	/	24.47	/	/	<=33	Pass	
	1857.5	Edge_1RB_Left	22.71	/	/	23.81	/	/	<=33	Pass	
			22.91	/	/	24.01	/	/	<=33	Pass	
		Outer_Full	21.24	/	/	22.34	/	/	<=33	Pass	
			23.23	/	/	24.33	/	/	<=33	Pass	
		Inner_1RB_Left	23.23	/	/	24.33	/	/	<=33	Pass	
			23.30	/	/	24.4	/	/	<=33	Pass	
		1882.5	Edge_1RB_Left	21.66	/	/	22.76	/	/	<=33	Pass
				21.05	/	/	22.15	/	/	<=33	Pass
Outer_Full	19.89		/	/	20.99	/	/	<=33	Pass		
	22.37		/	/	23.47	/	/	<=33	Pass		
Inner_1RB_Left	22.65		/	/	23.75	/	/	<=33	Pass		
	22.01		/	/	23.11	/	/	<=33	Pass		
1907.5	Edge_1RB_Left		21.34	/	/	22.44	/	/	<=33	Pass	
			21.89	/	/	22.99	/	/	<=33	Pass	
	Outer_Full	20.18	/	/	21.28	/	/	<=33	Pass		
		22.68	/	/	23.78	/	/	<=33	Pass		
1857.5	Edge_1RB_Left	21.70	/	/	22.8	/	/	<=33	Pass		
		22.04	/	/	23.14	/	/	<=33	Pass		
	Outer_Full	20.27	/	/	21.37	/	/	<=33	Pass		
		22.72	/	/	23.82	/	/	<=33	Pass		
	Inner_1RB_Left	22.61	/	/	23.71	/	/	<=33	Pass		
		22.72	/	/	23.82	/	/	<=33	Pass		
	DFT-s-OFDM 64 QAM	1857.5	Edge_1RB_Left	21.31	/	/	22.41	/	/	<=33	Pass
			Edge_1RB_Right	20.59	/	/	21.69	/	/	<=33	Pass
Outer_Full			19.41	/	/	20.51	/	/	<=33	Pass	
Inner_Full			20.88	/	/	21.98	/	/	<=33	Pass	
Inner_1RB_Left			21.29	/	/	22.39	/	/	<=33	Pass	
Inner_1RB_Right			20.63	/	/	21.73	/	/	<=33	Pass	
1882.5		Edge_1RB_Left	20.93	/	/	22.03	/	/	<=33	Pass	
			21.47	/	/	22.57	/	/	<=33	Pass	
		Outer_Full	19.65	/	/	20.75	/	/	<=33	Pass	
			21.15	/	/	22.25	/	/	<=33	Pass	
		Inner_1RB_Left	20.84	/	/	21.94	/	/	<=33	Pass	
			21.47	/	/	22.57	/	/	<=33	Pass	
1907.5	Edge_1RB_Left	21.37	/	/	22.47	/	/	<=33	Pass		
		21.71	/	/	22.81	/	/	<=33	Pass		
	Outer_Full	19.72	/	/	20.82	/	/	<=33	Pass		
		21.15	/	/	22.25	/	/	<=33	Pass		
	Inner_1RB_Left	21.38	/	/	22.48	/	/	<=33	Pass		
		20.92	/	/	22.02	/	/	<=33	Pass		
DFT-s-OFDM 256 QAM	1857.5	Edge_1RB_Left	18.71	/	/	19.81	/	/	<=33	Pass	
		Edge_1RB_Right	18.19	/	/	19.29	/	/	<=33	Pass	



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		Outer_Full	18.84	/	/	19.94	/	/	<=33	Pass
		Inner_Full	18.80	/	/	19.9	/	/	<=33	Pass
		Inner_1RB_Left	18.73	/	/	19.83	/	/	<=33	Pass
		Inner_1RB_Right	18.03	/	/	19.13	/	/	<=33	Pass
	1882.5	Edge_1RB_Left	18.26	/	/	19.36	/	/	<=33	Pass
		Edge_1RB_Right	18.80	/	/	19.9	/	/	<=33	Pass
		Outer_Full	19.07	/	/	20.17	/	/	<=33	Pass
		Inner_Full	19.06	/	/	20.16	/	/	<=33	Pass
	1907.5	Inner_1RB_Left	18.22	/	/	19.32	/	/	<=33	Pass
		Inner_1RB_Right	18.83	/	/	19.93	/	/	<=33	Pass
		Edge_1RB_Left	18.69	/	/	19.79	/	/	<=33	Pass
		Edge_1RB_Right	18.72	/	/	19.82	/	/	<=33	Pass
CP-OFDM QPSK	1857.5	Outer_Full	19.14	/	/	20.24	/	/	<=33	Pass
		Inner_Full	19.08	/	/	20.18	/	/	<=33	Pass
		Inner_1RB_Left	18.68	/	/	19.78	/	/	<=33	Pass
		Inner_1RB_Right	18.73	/	/	19.83	/	/	<=33	Pass
	1882.5	Edge_1RB_Left	20.79	/	/	21.89	/	/	<=33	Pass
		Edge_1RB_Right	20.07	/	/	21.17	/	/	<=33	Pass
		Outer_Full	20.48	/	/	21.58	/	/	<=33	Pass
		Inner_Full	21.77	/	/	22.87	/	/	<=33	Pass
	1907.5	Inner_1RB_Left	22.20	/	/	23.3	/	/	<=33	Pass
		Inner_1RB_Right	21.64	/	/	22.74	/	/	<=33	Pass
		Edge_1RB_Left	20.30	/	/	21.4	/	/	<=33	Pass
		Edge_1RB_Right	20.84	/	/	21.94	/	/	<=33	Pass
CP-OFDM 16 QAM	1857.5	Outer_Full	20.70	/	/	21.8	/	/	<=33	Pass
		Inner_Full	22.10	/	/	23.2	/	/	<=33	Pass
		Inner_1RB_Left	21.78	/	/	22.88	/	/	<=33	Pass
		Inner_1RB_Right	22.35	/	/	23.45	/	/	<=33	Pass
	1907.5	Edge_1RB_Left	20.72	/	/	21.82	/	/	<=33	Pass
		Edge_1RB_Right	20.48	/	/	21.58	/	/	<=33	Pass
		Outer_Full	20.72	/	/	21.82	/	/	<=33	Pass
		Inner_Full	22.21	/	/	23.31	/	/	<=33	Pass
	1882.5	Inner_1RB_Left	22.11	/	/	23.21	/	/	<=33	Pass
		Inner_1RB_Right	22.28	/	/	23.38	/	/	<=33	Pass
		Edge_1RB_Left	20.81	/	/	21.91	/	/	<=33	Pass
		Edge_1RB_Right	20.10	/	/	21.2	/	/	<=33	Pass
Outer_Full		18.81	/	/	19.91	/	/	<=33	Pass	
Inner_Full		21.46	/	/	22.56	/	/	<=33	Pass	
Inner_1RB_Left		21.79	/	/	22.89	/	/	<=33	Pass	
Inner_1RB_Right		21.05	/	/	22.15	/	/	<=33	Pass	
1907.5	Edge_1RB_Left	20.41	/	/	21.51	/	/	<=33	Pass	
	Edge_1RB_Right	20.91	/	/	22.01	/	/	<=33	Pass	
	Outer_Full	19.09	/	/	20.19	/	/	<=33	Pass	
	Inner_Full	21.74	/	/	22.84	/	/	<=33	Pass	
1882.5	Inner_1RB_Left	21.42	/	/	22.52	/	/	<=33	Pass	
	Inner_1RB_Right	21.93	/	/	23.03	/	/	<=33	Pass	
	Edge_1RB_Left	20.77	/	/	21.87	/	/	<=33	Pass	
	Edge_1RB_Right	20.62	/	/	21.72	/	/	<=33	Pass	



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CP-OFDM 64 QAM	1857.5	Outer_Full	19.16	/	/	20.26	/	/	<=33	Pass	
		Inner_Full	21.77	/	/	22.87	/	/	<=33	Pass	
		Inner_1RB_Left	21.87	/	/	22.97	/	/	<=33	Pass	
		Inner_1RB_Right	21.89	/	/	22.99	/	/	<=33	Pass	
	1882.5	Edge_1RB_Left	20.28	/	/	21.38	/	/	<=33	Pass	
			20.75	/	/	20.75	/	/	<=33	Pass	
		Outer_Full	18.27	/	/	19.37	/	/	<=33	Pass	
			19.88	/	/	20.98	/	/	<=33	Pass	
		Inner_1RB_Left	20.24	/	/	21.34	/	/	<=33	Pass	
			19.65	/	/	20.75	/	/	<=33	Pass	
		1907.5	Edge_1RB_Left	19.91	/	/	21.01	/	/	<=33	Pass
				20.45	/	/	21.55	/	/	<=33	Pass
Outer_Full	18.62		/	/	19.72	/	/	<=33	Pass		
	20.19		/	/	21.29	/	/	<=33	Pass		
CP-OFDM 256 QAM	1857.5	Edge_1RB_Left	17.41	/	/	18.51	/	/	<=33	Pass	
			16.22	/	/	17.32	/	/	<=33	Pass	
		Outer_Full	16.88	/	/	17.98	/	/	<=33	Pass	
			16.81	/	/	17.91	/	/	<=33	Pass	
Inner_1RB_Left		17.17	/	/	18.27	/	/	<=33	Pass		
	15.99	/	/	17.09	/	/	<=33	Pass			
1882.5	Edge_1RB_Left	16.40	/	/	17.5	/	/	<=33	Pass		
		16.98	/	/	18.08	/	/	<=33	Pass		
	Outer_Full	17.08	/	/	18.18	/	/	<=33	Pass		
		17.13	/	/	18.23	/	/	<=33	Pass		
	Inner_1RB_Left	16.39	/	/	17.49	/	/	<=33	Pass		
16.81		/	/	17.91	/	/	<=33	Pass			
1907.5	Edge_1RB_Left	16.86	/	/	17.96	/	/	<=33	Pass		
		17.01	/	/	18.11	/	/	<=33	Pass		
	Outer_Full	17.16	/	/	18.26	/	/	<=33	Pass		
		17.18	/	/	18.28	/	/	<=33	Pass		
	Inner_1RB_Left	16.86	/	/	17.96	/	/	<=33	Pass		
16.98		/	/	18.08	/	/	<=33	Pass			

Note1: Antenna Gain: Ant1: 1.1dBi;
 Note2: EIRP=Conducted Power+Antenna Gain

1.4 15k_SISO_20MHz_NTNV_EIRP

1.4.1 Test Result



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5G NR n25 SCS=15kHz SISO 20MHz NTN										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			EIRP(dBm)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	1860	Edge_1RB_Left	23.18	/	/	24.28	/	/	<=33	Pass
		Edge_1RB_Right	22.48	/	/	23.58	/	/	<=33	Pass
		Outer_Full	22.72	/	/	23.82	/	/	<=33	Pass
		Inner_Full	22.81	/	/	23.91	/	/	<=33	Pass
		Inner_1RB_Left	23.12	/	/	24.22	/	/	<=33	Pass
		Inner_1RB_Right	22.49	/	/	23.59	/	/	<=33	Pass
	1882.5	Edge_1RB_Left	22.63	/	/	23.73	/	/	<=33	Pass
		Edge_1RB_Right	23.27	/	/	24.37	/	/	<=33	Pass
		Outer_Full	23.14	/	/	24.24	/	/	<=33	Pass
		Inner_Full	23.13	/	/	24.23	/	/	<=33	Pass
		Inner_1RB_Left	22.55	/	/	23.65	/	/	<=33	Pass
		Inner_1RB_Right	23.35	/	/	24.45	/	/	<=33	Pass
	1905	Edge_1RB_Left	23.33	/	/	24.43	/	/	<=33	Pass
		Edge_1RB_Right	23.23	/	/	24.33	/	/	<=33	Pass
		Outer_Full	23.27	/	/	24.37	/	/	<=33	Pass
		Inner_Full	23.22	/	/	24.32	/	/	<=33	Pass
		Inner_1RB_Left	23.26	/	/	24.36	/	/	<=33	Pass
		Inner_1RB_Right	23.24	/	/	24.34	/	/	<=33	Pass
DFT-s-OFDM QPSK	1860	Edge_1RB_Left	22.73	/	/	23.83	/	/	<=33	Pass
		Edge_1RB_Right	22.10	/	/	23.2	/	/	<=33	Pass
		Outer_Full	20.86	/	/	21.96	/	/	<=33	Pass
		Inner_Full	22.77	/	/	23.87	/	/	<=33	Pass
		Inner_1RB_Left	23.09	/	/	24.19	/	/	<=33	Pass
		Inner_1RB_Right	22.50	/	/	23.6	/	/	<=33	Pass
	1882.5	Edge_1RB_Left	22.18	/	/	23.28	/	/	<=33	Pass
		Edge_1RB_Right	22.87	/	/	23.97	/	/	<=33	Pass
		Outer_Full	21.14	/	/	22.24	/	/	<=33	Pass
		Inner_Full	23.11	/	/	24.21	/	/	<=33	Pass
		Inner_1RB_Left	22.63	/	/	23.73	/	/	<=33	Pass
		Inner_1RB_Right	23.29	/	/	24.39	/	/	<=33	Pass
	1905	Edge_1RB_Left	22.78	/	/	23.88	/	/	<=33	Pass
		Edge_1RB_Right	23.11	/	/	24.21	/	/	<=33	Pass
		Outer_Full	21.30	/	/	22.4	/	/	<=33	Pass
		Inner_Full	23.22	/	/	24.32	/	/	<=33	Pass
		Inner_1RB_Left	23.35	/	/	24.45	/	/	<=33	Pass
		Inner_1RB_Right	23.19	/	/	24.29	/	/	<=33	Pass
DFT-s-OFDM 16 QAM	1860	Edge_1RB_Left	21.59	/	/	22.69	/	/	<=33	Pass
		Edge_1RB_Right	21.05	/	/	22.15	/	/	<=33	Pass
		Outer_Full	19.75	/	/	20.85	/	/	<=33	Pass
		Inner_Full	22.23	/	/	23.33	/	/	<=33	Pass
		Inner_1RB_Left	22.49	/	/	23.59	/	/	<=33	Pass
		Inner_1RB_Right	21.97	/	/	23.07	/	/	<=33	Pass
	1882.5	Edge_1RB_Left	21.10	/	/	22.2	/	/	<=33	Pass
		Edge_1RB_Right	21.78	/	/	22.88	/	/	<=33	Pass
		Outer_Full	20.11	/	/	21.21	/	/	<=33	Pass



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		Inner_Full	22.67	/	/	23.77	/	/	<=33	Pass	
		Inner_1RB_Left	22.11	/	/	23.21	/	/	<=33	Pass	
		Inner_1RB_Right	22.77	/	/	23.87	/	/	<=33	Pass	
		1905	Edge_1RB_Left	21.73	/	/	22.83	/	/	<=33	Pass
			Edge_1RB_Right	21.59	/	/	22.69	/	/	<=33	Pass
			Outer_Full	20.41	/	/	21.51	/	/	<=33	Pass
		1905	Inner_Full	22.71	/	/	23.81	/	/	<=33	Pass
			Inner_1RB_Left	22.70	/	/	23.8	/	/	<=33	Pass
			Inner_1RB_Right	22.70	/	/	23.8	/	/	<=33	Pass
DFT-s-OFDM 64 QAM	1860	Edge_1RB_Left	21.26	/	/	22.36	/	/	<=33	Pass	
		Edge_1RB_Right	20.72	/	/	21.82	/	/	<=33	Pass	
		Outer_Full	19.32	/	/	20.42	/	/	<=33	Pass	
		Inner_Full	20.75	/	/	21.85	/	/	<=33	Pass	
		Inner_1RB_Left	21.24	/	/	22.34	/	/	<=33	Pass	
		Inner_1RB_Right	20.74	/	/	21.84	/	/	<=33	Pass	
	1882.5	Edge_1RB_Left	20.76	/	/	21.86	/	/	<=33	Pass	
		Edge_1RB_Right	21.47	/	/	22.57	/	/	<=33	Pass	
		Outer_Full	19.70	/	/	20.8	/	/	<=33	Pass	
		Inner_Full	21.20	/	/	22.3	/	/	<=33	Pass	
		Inner_1RB_Left	20.78	/	/	21.88	/	/	<=33	Pass	
		Inner_1RB_Right	21.47	/	/	22.57	/	/	<=33	Pass	
	1905	Edge_1RB_Left	21.59	/	/	22.69	/	/	<=33	Pass	
		Edge_1RB_Right	21.11	/	/	22.21	/	/	<=33	Pass	
		Outer_Full	19.76	/	/	20.86	/	/	<=33	Pass	
		Inner_Full	21.31	/	/	22.41	/	/	<=33	Pass	
		Inner_1RB_Left	21.56	/	/	22.66	/	/	<=33	Pass	
		Inner_1RB_Right	21.46	/	/	22.56	/	/	<=33	Pass	
	DFT-s-OFDM 256 QAM	1860	Edge_1RB_Left	18.68	/	/	19.78	/	/	<=33	Pass
			Edge_1RB_Right	18.02	/	/	19.12	/	/	<=33	Pass
			Outer_Full	18.83	/	/	19.93	/	/	<=33	Pass
			Inner_Full	18.80	/	/	19.9	/	/	<=33	Pass
			Inner_1RB_Left	18.70	/	/	19.8	/	/	<=33	Pass
			Inner_1RB_Right	18.08	/	/	19.18	/	/	<=33	Pass
1882.5		Edge_1RB_Left	18.14	/	/	19.24	/	/	<=33	Pass	
		Edge_1RB_Right	18.81	/	/	19.91	/	/	<=33	Pass	
		Outer_Full	19.09	/	/	20.19	/	/	<=33	Pass	
		Inner_Full	19.07	/	/	20.17	/	/	<=33	Pass	
		Inner_1RB_Left	18.19	/	/	19.29	/	/	<=33	Pass	
		Inner_1RB_Right	18.90	/	/	20	/	/	<=33	Pass	
1905		Edge_1RB_Left	18.91	/	/	20.01	/	/	<=33	Pass	
		Edge_1RB_Right	18.86	/	/	19.96	/	/	<=33	Pass	
		Outer_Full	19.31	/	/	20.41	/	/	<=33	Pass	
		Inner_Full	19.21	/	/	20.31	/	/	<=33	Pass	
		Inner_1RB_Left	18.89	/	/	19.99	/	/	<=33	Pass	
		Inner_1RB_Right	18.82	/	/	19.92	/	/	<=33	Pass	
CP-OFDM QPSK	1860	Edge_1RB_Left	20.72	/	/	21.82	/	/	<=33	Pass	
		Edge_1RB_Right	20.08	/	/	21.18	/	/	<=33	Pass	
		Outer_Full	20.34	/	/	21.44	/	/	<=33	Pass	



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		Inner_Full	21.74	/	/	22.84	/	/	<=33	Pass	
		Inner_1RB_Left	22.11	/	/	23.21	/	/	<=33	Pass	
		Inner_1RB_Right	21.54	/	/	22.64	/	/	<=33	Pass	
	1882.5	Edge_1RB_Left	20.19	/	/	21.29	/	/	<=33	Pass	
		Edge_1RB_Right	20.82	/	/	21.92	/	/	<=33	Pass	
		Outer_Full	20.64	/	/	21.74	/	/	<=33	Pass	
		Inner_Full	22.12	/	/	23.22	/	/	<=33	Pass	
		Inner_1RB_Left	21.50	/	/	22.6	/	/	<=33	Pass	
		Inner_1RB_Right	22.16	/	/	23.26	/	/	<=33	Pass	
	1905	Edge_1RB_Left	20.85	/	/	21.95	/	/	<=33	Pass	
		Edge_1RB_Right	20.75	/	/	21.85	/	/	<=33	Pass	
		Outer_Full	20.76	/	/	21.86	/	/	<=33	Pass	
		Inner_Full	22.20	/	/	23.3	/	/	<=33	Pass	
		Inner_1RB_Left	22.20	/	/	23.3	/	/	<=33	Pass	
	CP-OFDM 16 QAM	1860	Inner_1RB_Right	22.08	/	/	23.18	/	/	<=33	Pass
Edge_1RB_Left			20.53	/	/	21.63	/	/	<=33	Pass	
Edge_1RB_Right			20.02	/	/	21.12	/	/	<=33	Pass	
Outer_Full			18.81	/	/	19.91	/	/	<=33	Pass	
Inner_Full			21.37	/	/	22.47	/	/	<=33	Pass	
1882.5		Inner_1RB_Left	21.79	/	/	22.89	/	/	<=33	Pass	
		Inner_1RB_Right	20.97	/	/	22.07	/	/	<=33	Pass	
		Edge_1RB_Left	20.05	/	/	21.15	/	/	<=33	Pass	
		Edge_1RB_Right	20.79	/	/	21.89	/	/	<=33	Pass	
		Outer_Full	19.11	/	/	20.21	/	/	<=33	Pass	
		Inner_Full	21.69	/	/	22.79	/	/	<=33	Pass	
		Inner_1RB_Left	21.25	/	/	22.35	/	/	<=33	Pass	
		Inner_1RB_Right	21.84	/	/	22.94	/	/	<=33	Pass	
		1905	Edge_1RB_Left	20.78	/	/	21.88	/	/	<=33	Pass
			Edge_1RB_Right	21.14	/	/	22.24	/	/	<=33	Pass
Outer_Full	19.27		/	/	20.37	/	/	<=33	Pass		
Inner_Full	21.72		/	/	22.82	/	/	<=33	Pass		
Inner_1RB_Left	21.93		/	/	23.03	/	/	<=33	Pass		
CP-OFDM 64 QAM	1860	Inner_1RB_Right	21.84	/	/	22.94	/	/	<=33	Pass	
		Edge_1RB_Left	20.18	/	/	21.28	/	/	<=33	Pass	
		Edge_1RB_Right	19.62	/	/	20.72	/	/	<=33	Pass	
		Outer_Full	18.39	/	/	19.49	/	/	<=33	Pass	
		Inner_Full	19.80	/	/	20.9	/	/	<=33	Pass	
	1882.5	Inner_1RB_Left	20.18	/	/	21.28	/	/	<=33	Pass	
		Inner_1RB_Right	19.54	/	/	20.64	/	/	<=33	Pass	
		Edge_1RB_Left	19.73	/	/	20.83	/	/	<=33	Pass	
		Edge_1RB_Right	20.48	/	/	21.58	/	/	<=33	Pass	
		Outer_Full	18.68	/	/	19.78	/	/	<=33	Pass	
		Inner_Full	20.18	/	/	21.28	/	/	<=33	Pass	
	1905	Inner_1RB_Left	19.69	/	/	20.79	/	/	<=33	Pass	
		Inner_1RB_Right	20.37	/	/	21.47	/	/	<=33	Pass	
		Edge_1RB_Left	20.39	/	/	21.49	/	/	<=33	Pass	
		Edge_1RB_Right	20.32	/	/	21.42	/	/	<=33	Pass	
		Outer_Full	18.78	/	/	19.88	/	/	<=33	Pass	



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CP-OFDM 256 QAM		Inner_Full	20.23	/	/	21.33	/	/	<=33	Pass
		Inner_1RB_Left	20.27	/	/	21.37	/	/	<=33	Pass
		Inner_1RB_Right	20.26	/	/	21.36	/	/	<=33	Pass
	1860	Edge_1RB_Left	16.79	/	/	17.89	/	/	<=33	Pass
		Edge_1RB_Right	16.21	/	/	17.31	/	/	<=33	Pass
		Outer_Full	16.79	/	/	17.89	/	/	<=33	Pass
		Inner_Full	16.79	/	/	17.89	/	/	<=33	Pass
		Inner_1RB_Left	16.89	/	/	17.99	/	/	<=33	Pass
		Inner_1RB_Right	16.25	/	/	17.35	/	/	<=33	Pass
	1882.5	Edge_1RB_Left	16.20	/	/	17.3	/	/	<=33	Pass
		Edge_1RB_Right	16.97	/	/	18.07	/	/	<=33	Pass
		Outer_Full	17.16	/	/	18.26	/	/	<=33	Pass
		Inner_Full	17.17	/	/	18.27	/	/	<=33	Pass
		Inner_1RB_Left	16.23	/	/	17.33	/	/	<=33	Pass
		Inner_1RB_Right	16.77	/	/	17.87	/	/	<=33	Pass
	1905	Edge_1RB_Left	16.96	/	/	18.06	/	/	<=33	Pass
		Edge_1RB_Right	16.91	/	/	18.01	/	/	<=33	Pass
		Outer_Full	17.29	/	/	18.39	/	/	<=33	Pass
		Inner_Full	17.21	/	/	18.31	/	/	<=33	Pass
		Inner_1RB_Left	16.93	/	/	18.03	/	/	<=33	Pass
		Inner_1RB_Right	16.57	/	/	17.67	/	/	<=33	Pass
Note1: Antenna Gain: Ant1: 1.1dBi; Note2: EIRP=Conducted Power+Antenna Gain										



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2. Frequency Stability

2.1 15k_SISO_5MHz

2.1.1 Test Result

5G NR n25 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	1882.5	Outer_Full	20	LV	-3.10	-0.0016	/	Pass
				HV	-2.70	-0.0014	/	Pass
			-30	NV	4.80	0.0025	/	Pass
			-20	NV	-1.70	-0.0009	/	Pass
			-10	NV	-2.80	-0.0015	/	Pass
			0	NV	1.70	0.0009	/	Pass
			10	NV	-3.90	-0.0021	/	Pass
			20	NV	-4.50	-0.0024	/	Pass
			30	NV	-4.70	-0.0025	/	Pass
			40	NV	-3.20	-0.0017	/	Pass
50	NV	2.80	0.0015	/	Pass			
DFT-s-OFDM QPSK	1882.5	Outer_Full	20	LV	-3.60	-0.0019	/	Pass
				HV	1.50	0.0008	/	Pass
			-30	NV	1.80	0.0010	/	Pass
			-20	NV	3.70	0.0020	/	Pass
			-10	NV	-5.60	-0.0030	/	Pass
			0	NV	-0.70	-0.0004	/	Pass
			10	NV	-5.00	-0.0027	/	Pass
			20	NV	-3.20	-0.0017	/	Pass
			30	NV	-5.00	-0.0027	/	Pass
			40	NV	-0.90	-0.0005	/	Pass
50	NV	3.10	0.0016	/	Pass			
DFT-s-OFDM 16 QAM	1882.5	Outer_Full	20	LV	2.40	0.0013	/	Pass
				HV	0.80	0.0004	/	Pass
			-30	NV	-4.40	-0.0023	/	Pass
			-20	NV	1.00	0.0005	/	Pass
			-10	NV	4.10	0.0022	/	Pass
			0	NV	-1.80	-0.0010	/	Pass
			10	NV	1.50	0.0008	/	Pass
			20	NV	-4.30	-0.0023	/	Pass
			30	NV	2.00	0.0011	/	Pass
			40	NV	-2.20	-0.0012	/	Pass
50	NV	-4.20	-0.0022	/	Pass			
DFT-s-OFDM 64 QAM	1882.5	Outer_Full	20	LV	-3.10	-0.0016	/	Pass
				HV	4.00	0.0021	/	Pass
			-30	NV	0.70	0.0004	/	Pass
			-20	NV	2.10	0.0011	/	Pass
			-10	NV	-3.40	-0.0018	/	Pass



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			0	NV	2.80	0.0015	/	Pass
			10	NV	-3.20	-0.0017	/	Pass
			20	NV	-0.80	-0.0004	/	Pass
			30	NV	5.70	0.0030	/	Pass
			40	NV	-3.20	-0.0017	/	Pass
			50	NV	4.50	0.0024	/	Pass
DFT-s-OFDM 256 QAM	1882.5	Outer_Full	20	LV	-2.30	-0.0012	/	Pass
				HV	0.40	0.0002	/	Pass
			-30	NV	3.40	0.0018	/	Pass
			-20	NV	1.00	0.0005	/	Pass
			-10	NV	-2.30	-0.0012	/	Pass
			0	NV	1.60	0.0008	/	Pass
			10	NV	-3.90	-0.0021	/	Pass
			20	NV	-3.90	-0.0021	/	Pass
			30	NV	-2.00	-0.0011	/	Pass
			40	NV	-6.00	-0.0032	/	Pass
			50	NV	-5.00	-0.0027	/	Pass
CP-OFDM QPSK	1882.5	Outer_Full	20	LV	3.10	0.0016	/	Pass
				HV	-3.50	-0.0019	/	Pass
			-30	NV	-0.30	-0.0002	/	Pass
			-20	NV	1.80	0.0010	/	Pass
			-10	NV	-5.60	-0.0030	/	Pass
			0	NV	-4.40	-0.0023	/	Pass
			10	NV	-1.70	-0.0009	/	Pass
			20	NV	-2.80	-0.0015	/	Pass
			30	NV	-1.50	-0.0008	/	Pass
			40	NV	4.90	0.0026	/	Pass
			50	NV	-2.60	-0.0014	/	Pass
CP-OFDM 16 QAM	1882.5	Outer_Full	20	LV	1.40	0.0007	/	Pass
				HV	-5.00	-0.0027	/	Pass
			-30	NV	2.60	0.0014	/	Pass
			-20	NV	-5.30	-0.0028	/	Pass
			-10	NV	-1.60	-0.0008	/	Pass
			0	NV	1.10	0.0006	/	Pass
			10	NV	4.90	0.0026	/	Pass
			20	NV	-1.10	-0.0006	/	Pass
			30	NV	2.70	0.0014	/	Pass
			40	NV	3.70	0.0020	/	Pass
			50	NV	2.40	0.0013	/	Pass
CP-OFDM 64 QAM	1882.5	Outer_Full	20	LV	-2.90	-0.0015	/	Pass
				HV	-7.60	-0.0040	/	Pass
			-30	NV	2.30	0.0012	/	Pass
			-20	NV	2.90	0.0015	/	Pass
			-10	NV	3.40	0.0018	/	Pass
			0	NV	-1.30	-0.0007	/	Pass
			10	NV	-5.60	-0.0030	/	Pass
			20	NV	0.70	0.0004	/	Pass
			30	NV	-1.60	-0.0008	/	Pass



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Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)	Verdict	
			Result	Limit				
CP-OFDM 256 QAM	1882.5	Outer_Full	40	NV	-3.30	-0.0018	/	Pass
			50	NV	-1.70	-0.0009	/	Pass
			20	LV	-3.80	-0.0020	/	Pass
				HV	1.90	0.0010	/	Pass
			-30	NV	6.00	0.0032	/	Pass
			-20	NV	1.20	0.0006	/	Pass
			-10	NV	-3.10	-0.0016	/	Pass
			0	NV	-7.80	-0.0041	/	Pass
			10	NV	-5.30	-0.0028	/	Pass
			20	NV	-4.30	-0.0023	/	Pass
			30	NV	-3.60	-0.0019	/	Pass
			40	NV	-4.80	-0.0025	/	Pass
			50	NV	-5.80	-0.0031	/	Pass

2.2 15k_SISO_10MHz

2.2.1 Test Result

5G NR n25 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	1882.5	Outer_Full	20	LV	-3.90	-0.0021	/	Pass
				HV	-1.50	-0.0008	/	Pass
			-30	NV	-2.30	-0.0012	/	Pass
			-20	NV	-3.10	-0.0016	/	Pass
			-10	NV	3.70	0.0020	/	Pass
			0	NV	-1.80	-0.0010	/	Pass
			10	NV	-3.60	-0.0019	/	Pass
			20	NV	2.50	0.0013	/	Pass
			30	NV	1.60	0.0008	/	Pass
			40	NV	-1.10	-0.0006	/	Pass
50	NV	2.60	0.0014	/	Pass			
DFT-s-OFDM QPSK	1882.5	Outer_Full	20	LV	-6.20	-0.0033	/	Pass
				HV	7.10	0.0038	/	Pass
			-30	NV	3.60	0.0019	/	Pass
			-20	NV	-1.00	-0.0005	/	Pass
			-10	NV	4.80	0.0025	/	Pass
			0	NV	4.00	0.0021	/	Pass
			10	NV	-1.30	-0.0007	/	Pass
			20	NV	1.70	0.0009	/	Pass
			30	NV	2.00	0.0011	/	Pass
			40	NV	2.60	0.0014	/	Pass
50	NV	0.90	0.0005	/	Pass			
DFT-s-OFDM 16 QAM	1882.5	Outer_Full	20	LV	3.60	0.0019	/	Pass
				HV	2.50	0.0013	/	Pass
			-30	NV	-3.10	-0.0016	/	Pass



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			-20	NV	2.30	0.0012	/	Pass
			-10	NV	0.90	0.0005	/	Pass
			0	NV	4.20	0.0022	/	Pass
			10	NV	-3.40	-0.0018	/	Pass
			20	NV	5.50	0.0029	/	Pass
			30	NV	2.90	0.0015	/	Pass
			40	NV	-6.20	-0.0033	/	Pass
			50	NV	3.20	0.0017	/	Pass
DFT-s-OFDM 64 QAM	1882.5	Outer_Full	20	LV	-1.80	-0.0010	/	Pass
				HV	3.60	0.0019	/	Pass
			-30	NV	-1.20	-0.0006	/	Pass
			-20	NV	3.10	0.0016	/	Pass
			-10	NV	0.70	0.0004	/	Pass
			0	NV	3.90	0.0021	/	Pass
			10	NV	3.70	0.0020	/	Pass
			20	NV	6.40	0.0034	/	Pass
			30	NV	-5.10	-0.0027	/	Pass
			40	NV	4.80	0.0025	/	Pass
50	NV	1.10	0.0006	/	Pass			
DFT-s-OFDM 256 QAM	1882.5	Outer_Full	20	LV	-6.30	-0.0033	/	Pass
				HV	-1.00	-0.0005	/	Pass
			-30	NV	4.80	0.0025	/	Pass
			-20	NV	3.50	0.0019	/	Pass
			-10	NV	1.50	0.0008	/	Pass
			0	NV	2.30	0.0012	/	Pass
			10	NV	4.20	0.0022	/	Pass
			20	NV	3.00	0.0016	/	Pass
			30	NV	-2.50	-0.0013	/	Pass
			40	NV	-1.70	-0.0009	/	Pass
50	NV	-4.30	-0.0023	/	Pass			
CP-OFDM QPSK	1882.5	Outer_Full	20	LV	-5.30	-0.0028	/	Pass
				HV	-5.10	-0.0027	/	Pass
			-30	NV	4.60	0.0024	/	Pass
			-20	NV	2.80	0.0015	/	Pass
			-10	NV	1.30	0.0007	/	Pass
			0	NV	-1.30	-0.0007	/	Pass
			10	NV	-3.90	-0.0021	/	Pass
			20	NV	3.30	0.0018	/	Pass
			30	NV	-3.00	-0.0016	/	Pass
			40	NV	-4.00	-0.0021	/	Pass
50	NV	1.00	0.0005	/	Pass			
CP-OFDM 16 QAM	1882.5	Outer_Full	20	LV	-3.20	-0.0017	/	Pass
				HV	-4.80	-0.0025	/	Pass
			-30	NV	5.70	0.0030	/	Pass
			-20	NV	-4.50	-0.0024	/	Pass
			-10	NV	-3.30	-0.0018	/	Pass
			0	NV	-6.10	-0.0032	/	Pass
10	NV	-4.90	-0.0026	/	Pass			



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			20	NV	-1.20	-0.0006	/	Pass			
			30	NV	2.70	0.0014	/	Pass			
			40	NV	-2.70	-0.0014	/	Pass			
			50	NV	-6.90	-0.0037	/	Pass			
CP-OFDM 64 QAM	1882.5	Outer_Full	20	LV	2.70	0.0014	/	Pass			
				HV	-2.20	-0.0012	/	Pass			
						-30	NV	-3.40	-0.0018	/	Pass
						-20	NV	-3.10	-0.0016	/	Pass
						-10	NV	4.80	0.0025	/	Pass
						0	NV	3.70	0.0020	/	Pass
						10	NV	8.50	0.0045	/	Pass
						20	NV	-2.50	-0.0013	/	Pass
						30	NV	-0.30	-0.0002	/	Pass
						40	NV	-2.40	-0.0013	/	Pass
			50	NV	-1.50	-0.0008	/	Pass			
CP-OFDM 256 QAM	1882.5	Outer_Full	20	LV	-3.90	-0.0021	/	Pass			
				HV	0.90	0.0005	/	Pass			
						-30	NV	-0.60	-0.0003	/	Pass
						-20	NV	-6.90	-0.0037	/	Pass
						-10	NV	-2.40	-0.0013	/	Pass
						0	NV	3.80	0.0020	/	Pass
						10	NV	4.00	0.0021	/	Pass
						20	NV	-3.80	-0.0020	/	Pass
						30	NV	1.50	0.0008	/	Pass
						40	NV	3.90	0.0021	/	Pass
			50	NV	-2.80	-0.0015	/	Pass			

2.3 15k_SISO_15MHz

2.3.1 Test Result

5G NR n25 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	1882.5	Outer_Full	20	LV	5.00	0.0027	/	Pass			
				HV	-3.70	-0.0020	/	Pass			
						-30	NV	4.40	0.0023	/	Pass
						-20	NV	-3.80	-0.0020	/	Pass
						-10	NV	3.70	0.0020	/	Pass
						0	NV	3.90	0.0021	/	Pass
						10	NV	-5.50	-0.0029	/	Pass
						20	NV	3.40	0.0018	/	Pass
						30	NV	-3.60	-0.0019	/	Pass
						40	NV	-4.30	-0.0023	/	Pass
			50	NV	1.40	0.0007	/	Pass			
DFT-s-OFDM QPSK	1882.5	Outer_Full	20	LV	6.00	0.0032	/	Pass			



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			-30	HV	0.80	0.0004	/	Pass
			-30	NV	-1.10	-0.0006	/	Pass
			-20	NV	0.90	0.0005	/	Pass
			-10	NV	3.30	0.0018	/	Pass
			0	NV	1.60	0.0008	/	Pass
			10	NV	-5.40	-0.0029	/	Pass
			20	NV	5.30	0.0028	/	Pass
			30	NV	2.90	0.0015	/	Pass
			40	NV	-0.80	-0.0004	/	Pass
DFT-s-OFDM 16 QAM	1882.5	Outer_Full	50	NV	3.00	0.0016	/	Pass
			20	LV	-2.00	-0.0011	/	Pass
			20	HV	-0.90	-0.0005	/	Pass
			-30	NV	2.40	0.0013	/	Pass
			-20	NV	-0.70	-0.0004	/	Pass
			-10	NV	6.00	0.0032	/	Pass
			0	NV	2.20	0.0012	/	Pass
			10	NV	-3.70	-0.0020	/	Pass
			20	NV	2.20	0.0012	/	Pass
DFT-s-OFDM 64 QAM	1882.5	Outer_Full	30	NV	-3.10	-0.0016	/	Pass
			40	NV	-6.70	-0.0036	/	Pass
			50	NV	-0.40	-0.0002	/	Pass
			20	LV	-4.30	-0.0023	/	Pass
			20	HV	1.80	0.0010	/	Pass
			-30	NV	-4.00	-0.0021	/	Pass
			-20	NV	1.60	0.0008	/	Pass
			-10	NV	3.40	0.0018	/	Pass
			0	NV	-1.50	-0.0008	/	Pass
DFT-s-OFDM 256 QAM	1882.5	Outer_Full	10	NV	2.10	0.0011	/	Pass
			20	NV	4.30	0.0023	/	Pass
			30	NV	-1.10	-0.0006	/	Pass
			40	NV	1.60	0.0008	/	Pass
			50	NV	-2.80	-0.0015	/	Pass
			20	LV	3.60	0.0019	/	Pass
			20	HV	2.70	0.0014	/	Pass
			-30	NV	1.20	0.0006	/	Pass
			-20	NV	4.40	0.0023	/	Pass
CP-OFDM QPSK	1882.5	Outer_Full	-10	NV	-5.10	-0.0027	/	Pass
			0	NV	-3.70	-0.0020	/	Pass
			10	NV	3.10	0.0016	/	Pass
			20	NV	4.40	0.0023	/	Pass
			30	NV	0.70	0.0004	/	Pass
			40	NV	3.20	0.0017	/	Pass
			50	NV	-2.60	-0.0014	/	Pass
			20	LV	-2.70	-0.0014	/	Pass
			20	HV	-5.60	-0.0030	/	Pass
			-30	NV	-1.70	-0.0009	/	Pass
			-20	NV	-5.00	-0.0027	/	Pass
			-10	NV	-6.90	-0.0037	/	Pass



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			0	NV	-3.20	-0.0017	/	Pass
			10	NV	-4.90	-0.0026	/	Pass
			20	NV	-1.70	-0.0009	/	Pass
			30	NV	-4.10	-0.0022	/	Pass
			40	NV	2.40	0.0013	/	Pass
			50	NV	-3.80	-0.0020	/	Pass
CP-OFDM 16 QAM	1882.5	Outer_Full	20	LV	-5.60	-0.0030	/	Pass
				HV	-1.70	-0.0009	/	Pass
			-30	NV	1.20	0.0006	/	Pass
			-20	NV	-6.50	-0.0035	/	Pass
			-10	NV	-5.70	-0.0030	/	Pass
			0	NV	-3.30	-0.0018	/	Pass
			10	NV	-2.80	-0.0015	/	Pass
			20	NV	-1.00	-0.0005	/	Pass
			30	NV	-0.50	-0.0003	/	Pass
			40	NV	-4.60	-0.0024	/	Pass
CP-OFDM 64 QAM	1882.5	Outer_Full	50	NV	-3.40	-0.0018	/	Pass
			20	LV	-2.90	-0.0015	/	Pass
				HV	-3.10	-0.0016	/	Pass
			-30	NV	-1.40	-0.0007	/	Pass
			-20	NV	2.90	0.0015	/	Pass
			-10	NV	-2.60	-0.0014	/	Pass
			0	NV	-4.50	-0.0024	/	Pass
			10	NV	-1.80	-0.0010	/	Pass
			20	NV	-3.50	-0.0019	/	Pass
			30	NV	-4.60	-0.0024	/	Pass
CP-OFDM 256 QAM	1882.5	Outer_Full	40	NV	-3.40	-0.0018	/	Pass
			50	NV	-4.60	-0.0024	/	Pass
			20	LV	-5.30	-0.0028	/	Pass
				HV	-3.40	-0.0018	/	Pass
			-30	NV	-4.40	-0.0023	/	Pass
			-20	NV	7.20	0.0038	/	Pass
			-10	NV	3.00	0.0016	/	Pass
			0	NV	-2.50	-0.0013	/	Pass
			10	NV	3.10	0.0016	/	Pass
			20	NV	-0.80	-0.0004	/	Pass
30	NV	-2.70	-0.0014	/	Pass			
40	NV	-1.60	-0.0008	/	Pass			
50	NV	0.90	0.0005	/	Pass			

2.4 15k_SISO_20MHz

2.4.1 Test Result

5G NR n25 SCS=15kHz SISO 20MHz							
Modulation	Frequency	RB	Temp.	Volt.	Freq. Error	Freq. vs. rated (ppm)	Verdict



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	(MHz)	Allocation	(°C)		(Hz)	Result	Limit	
DFT-s-OFDM PI/2 BPSK	1882.5	Outer_Full	20	LV	5.40	0.0029	/	Pass
				HV	6.20	0.0033	/	Pass
			-30	NV	6.60	0.0035	/	Pass
				-20	NV	7.40	0.0039	/
			-10	NV	4.30	0.0023	/	Pass
				0	NV	3.30	0.0018	/
			10	NV	2.40	0.0013	/	Pass
				20	NV	8.00	0.0042	/
			30	NV	4.90	0.0026	/	Pass
				40	NV	3.30	0.0018	/
50	NV	4.10	0.0022	/	Pass			
	20	LV	6.90	0.0037	/	Pass		
-30		HV	7.50	0.0040	/	Pass		
	-20	NV	6.30	0.0033	/	Pass		
-10		NV	8.80	0.0047	/	Pass		
	0	NV	3.70	0.0020	/	Pass		
10		NV	3.00	0.0016	/	Pass		
	20	NV	3.20	0.0017	/	Pass		
30		NV	3.70	0.0020	/	Pass		
	40	NV	4.30	0.0023	/	Pass		
50		NV	3.40	0.0018	/	Pass		
	20	LV	7.20	0.0038	/	Pass		
-30		HV	2.90	0.0015	/	Pass		
	-20	NV	5.90	0.0031	/	Pass		
-10		NV	4.90	0.0026	/	Pass		
	0	NV	5.00	0.0027	/	Pass		
10		NV	6.30	0.0033	/	Pass		
	20	NV	7.40	0.0039	/	Pass		
30		NV	10.10	0.0054	/	Pass		
	40	NV	5.20	0.0028	/	Pass		
50		NV	8.70	0.0046	/	Pass		
	20	LV	6.00	0.0032	/	Pass		
-30		HV	6.30	0.0033	/	Pass		
	-20	NV	5.20	0.0028	/	Pass		
-10		NV	4.50	0.0024	/	Pass		
	0	NV	3.90	0.0021	/	Pass		
10		NV	7.70	0.0041	/	Pass		
	20	NV	2.00	0.0011	/	Pass		
30		NV	6.50	0.0035	/	Pass		
	40	NV	4.40	0.0023	/	Pass		
50		NV	3.70	0.0020	/	Pass		
	20	LV	3.20	0.0017	/	Pass		
-30		HV	-1.50	-0.0008	/	Pass		
	-20	NV	-1.80	-0.0010	/	Pass		
-10		NV	0.40	0.0002	/	Pass		



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			-20	NV	4.60	0.0024	/	Pass
			-10	NV	-5.20	-0.0028	/	Pass
			0	NV	4.90	0.0026	/	Pass
			10	NV	4.30	0.0023	/	Pass
			20	NV	4.90	0.0026	/	Pass
			30	NV	-4.20	-0.0022	/	Pass
			40	NV	-3.40	-0.0018	/	Pass
			50	NV	1.90	0.0010	/	Pass
CP-OFDM QPSK	1882.5	Outer_Full	20	LV	-4.80	-0.0025	/	Pass
				HV	2.10	0.0011	/	Pass
			-30	NV	-0.90	-0.0005	/	Pass
			-20	NV	0.50	0.0003	/	Pass
			-10	NV	-6.60	-0.0035	/	Pass
			0	NV	-2.80	-0.0015	/	Pass
			10	NV	-0.90	-0.0005	/	Pass
			20	NV	-3.90	-0.0021	/	Pass
			30	NV	-5.00	-0.0027	/	Pass
			40	NV	1.10	0.0006	/	Pass
			50	NV	-4.30	-0.0023	/	Pass
CP-OFDM 16 QAM	1882.5	Outer_Full	20	LV	-1.80	-0.0010	/	Pass
				HV	3.00	0.0016	/	Pass
			-30	NV	-4.60	-0.0024	/	Pass
			-20	NV	-3.60	-0.0019	/	Pass
			-10	NV	-6.10	-0.0032	/	Pass
			0	NV	4.80	0.0025	/	Pass
			10	NV	0.90	0.0005	/	Pass
			20	NV	-3.40	-0.0018	/	Pass
			30	NV	-2.50	-0.0013	/	Pass
			40	NV	5.00	0.0027	/	Pass
			50	NV	-4.80	-0.0025	/	Pass
CP-OFDM 64 QAM	1882.5	Outer_Full	20	LV	-1.60	-0.0008	/	Pass
				HV	-5.50	-0.0029	/	Pass
			-30	NV	-4.80	-0.0025	/	Pass
			-20	NV	-1.40	-0.0007	/	Pass
			-10	NV	-1.70	-0.0009	/	Pass
			0	NV	4.10	0.0022	/	Pass
			10	NV	2.70	0.0014	/	Pass
			20	NV	-1.50	-0.0008	/	Pass
			30	NV	-2.30	-0.0012	/	Pass
			40	NV	-5.90	-0.0031	/	Pass
			50	NV	-3.20	-0.0017	/	Pass
CP-OFDM 256 QAM	1882.5	Outer_Full	20	LV	3.30	0.0018	/	Pass
				HV	-0.80	-0.0004	/	Pass
			-30	NV	2.30	0.0012	/	Pass
			-20	NV	-3.10	-0.0016	/	Pass
			-10	NV	-3.00	-0.0016	/	Pass
			0	NV	-2.80	-0.0015	/	Pass
			10	NV	1.50	0.0008	/	Pass



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			20	NV	0.90	0.0005	/	Pass
			30	NV	-2.30	-0.0012	/	Pass
			40	NV	-0.70	-0.0004	/	Pass
			50	NV	-6.30	-0.0033	/	Pass



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3. 99% & 26dB Bandwidth

3.1 15k_SISO_5MHz_NTNV

3.1.1 Test Result

5G NR n25 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	1852.5	Outer_Full	4.53	5.06	/	Pass
	1882.5	Outer_Full	4.55	5.14	/	Pass
	1912.5	Outer_Full	4.53	5.07	/	Pass
DFT-s-OFDM QPSK	1852.5	Outer_Full	4.53	5.04	/	Pass
	1882.5	Outer_Full	4.52	5.01	/	Pass
	1912.5	Outer_Full	4.52	5.05	/	Pass
DFT-s-OFDM 16 QAM	1852.5	Outer_Full	4.53	5.05	/	Pass
	1882.5	Outer_Full	4.56	5.07	/	Pass
	1912.5	Outer_Full	4.53	5.01	/	Pass
DFT-s-OFDM 64 QAM	1852.5	Outer_Full	4.53	5.05	/	Pass
	1882.5	Outer_Full	4.54	5.07	/	Pass
	1912.5	Outer_Full	4.53	5.04	/	Pass
DFT-s-OFDM 256 QAM	1852.5	Outer_Full	4.52	5.07	/	Pass
	1882.5	Outer_Full	4.51	5.06	/	Pass
	1912.5	Outer_Full	4.53	5.07	/	Pass
CP-OFDM QPSK	1852.5	Outer_Full	4.53	5.07	/	Pass
	1882.5	Outer_Full	4.54	5.09	/	Pass
	1912.5	Outer_Full	4.52	5.08	/	Pass
CP-OFDM 16 QAM	1852.5	Outer_Full	4.58	5.13	/	Pass
	1882.5	Outer_Full	4.54	5.10	/	Pass
	1912.5	Outer_Full	4.56	5.08	/	Pass
CP-OFDM 64 QAM	1852.5	Outer_Full	4.53	5.12	/	Pass
	1882.5	Outer_Full	4.54	5.10	/	Pass
	1912.5	Outer_Full	4.54	5.11	/	Pass
CP-OFDM 256 QAM	1852.5	Outer_Full	4.54	5.10	/	Pass
	1882.5	Outer_Full	4.54	5.12	/	Pass
	1912.5	Outer_Full	4.53	5.10	/	Pass



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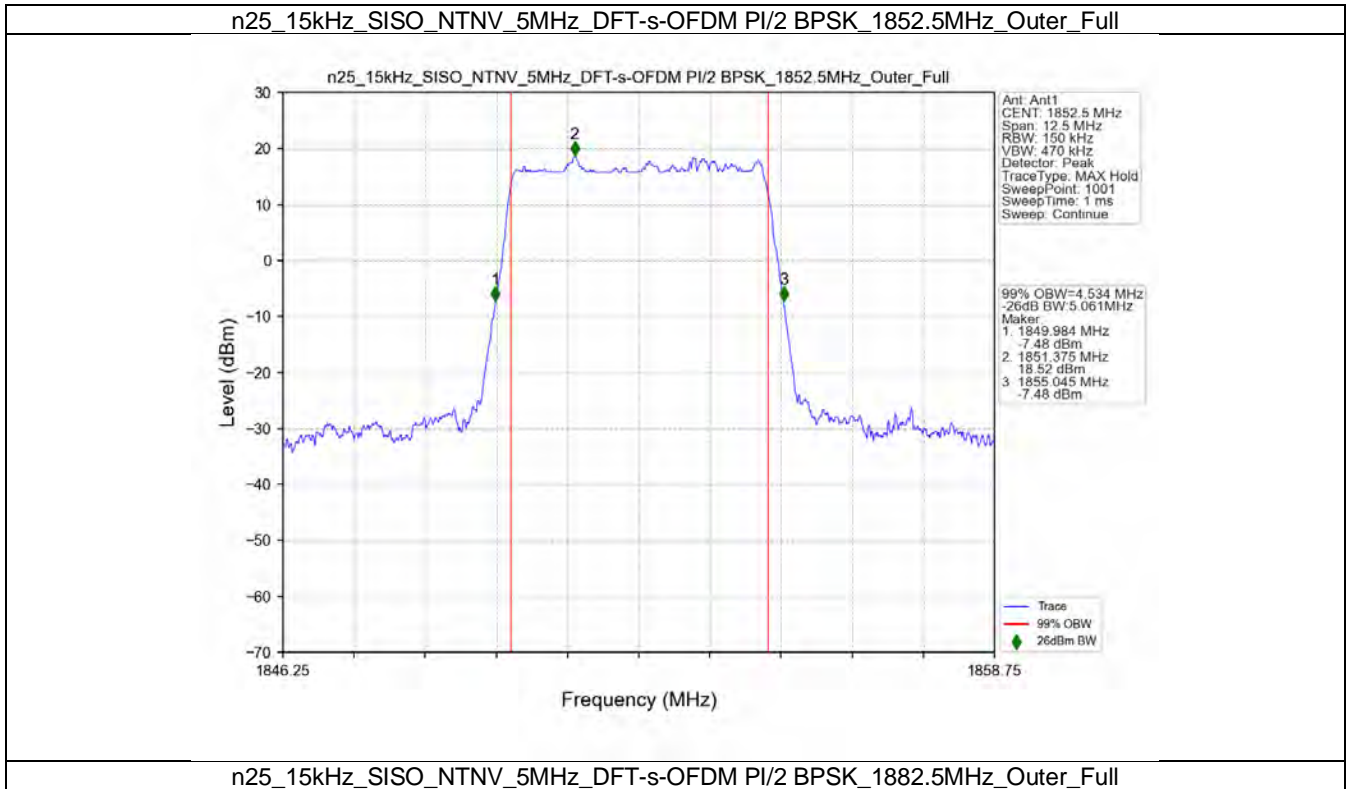
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3.1.2 Test Graph



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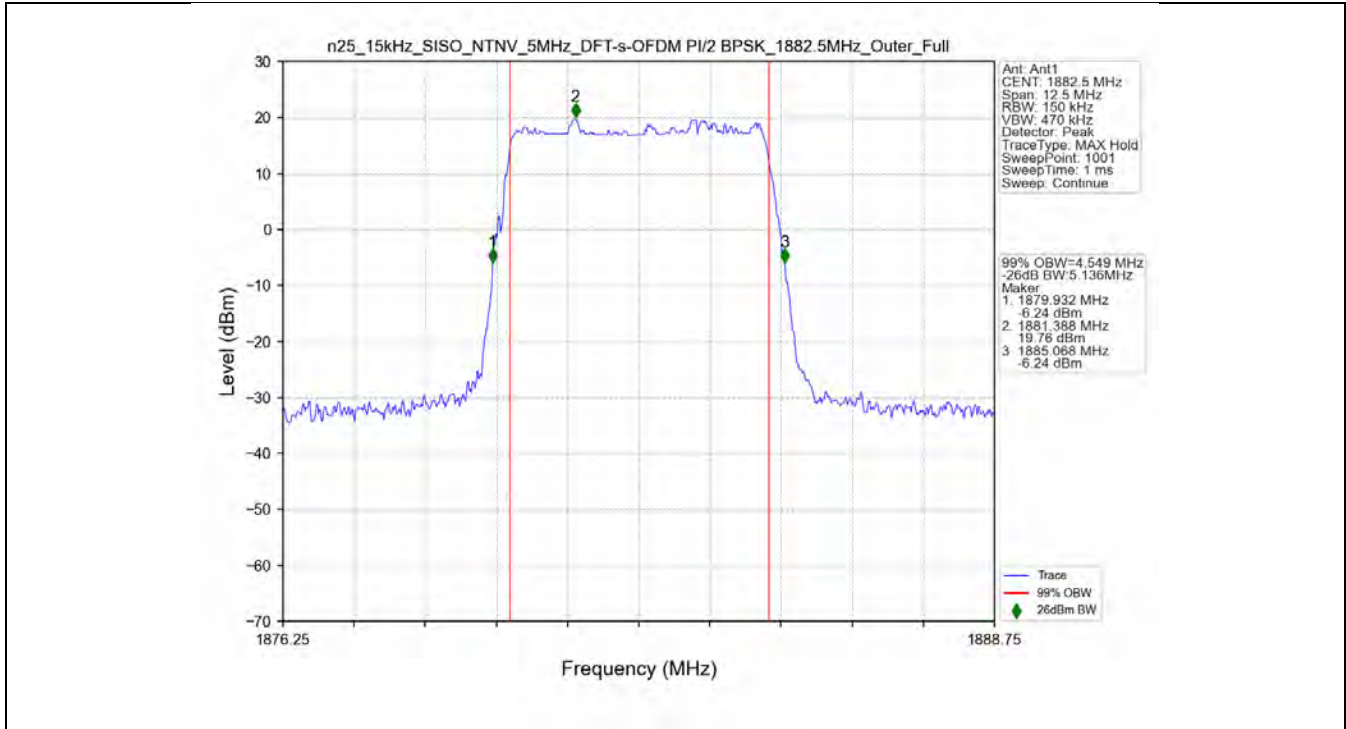


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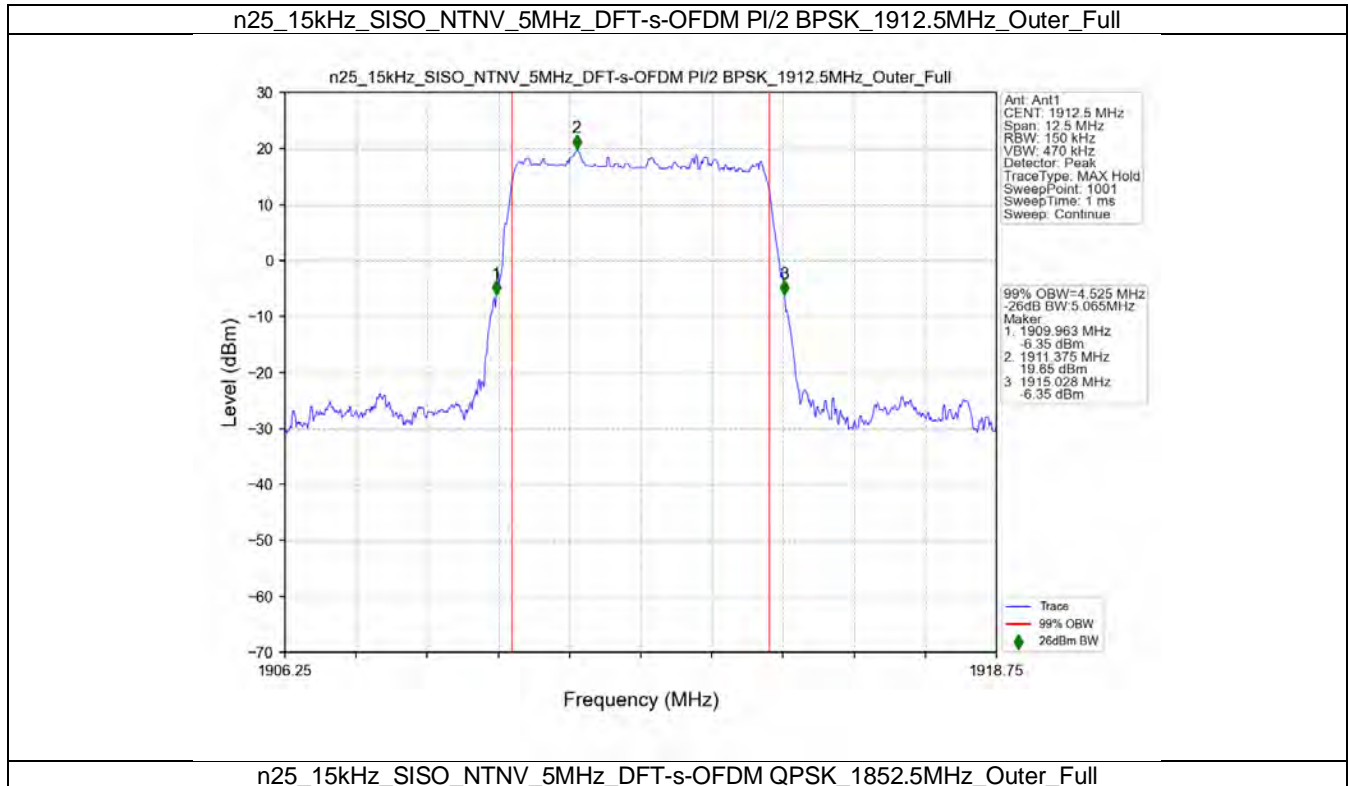


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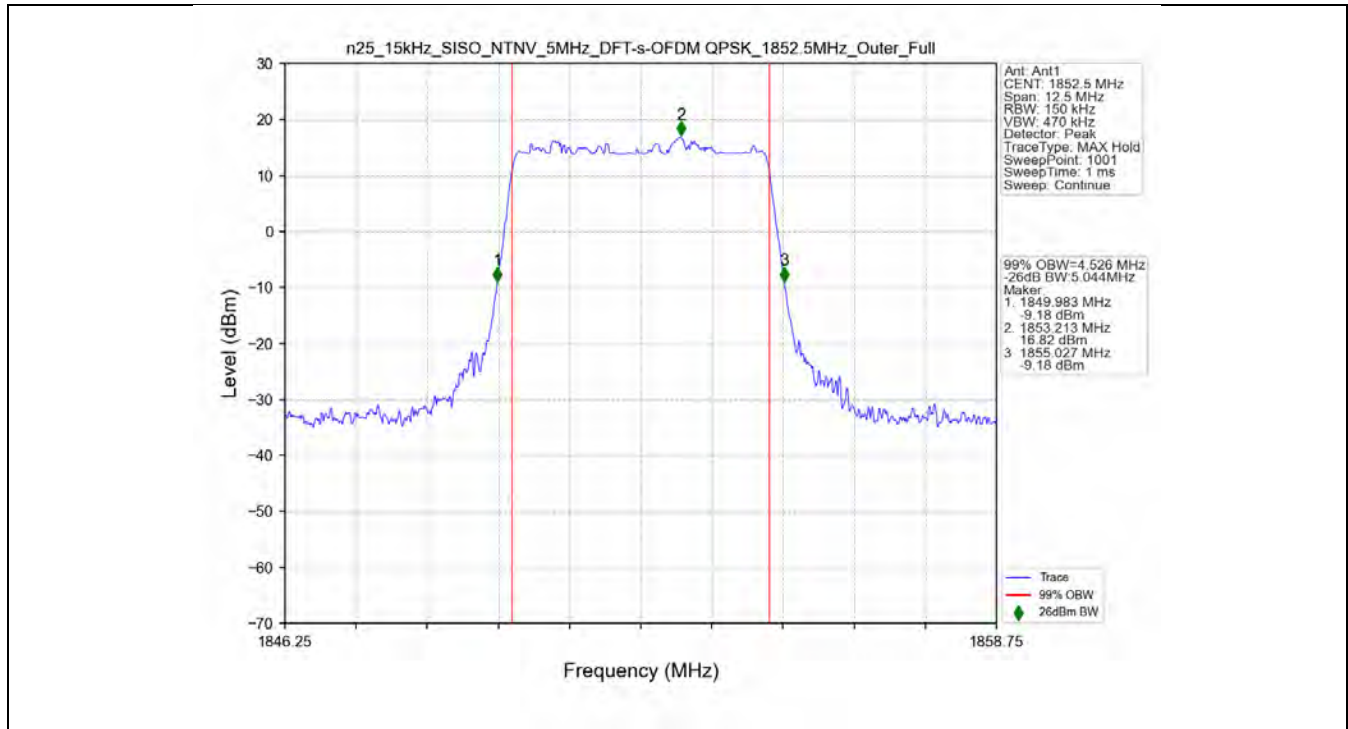


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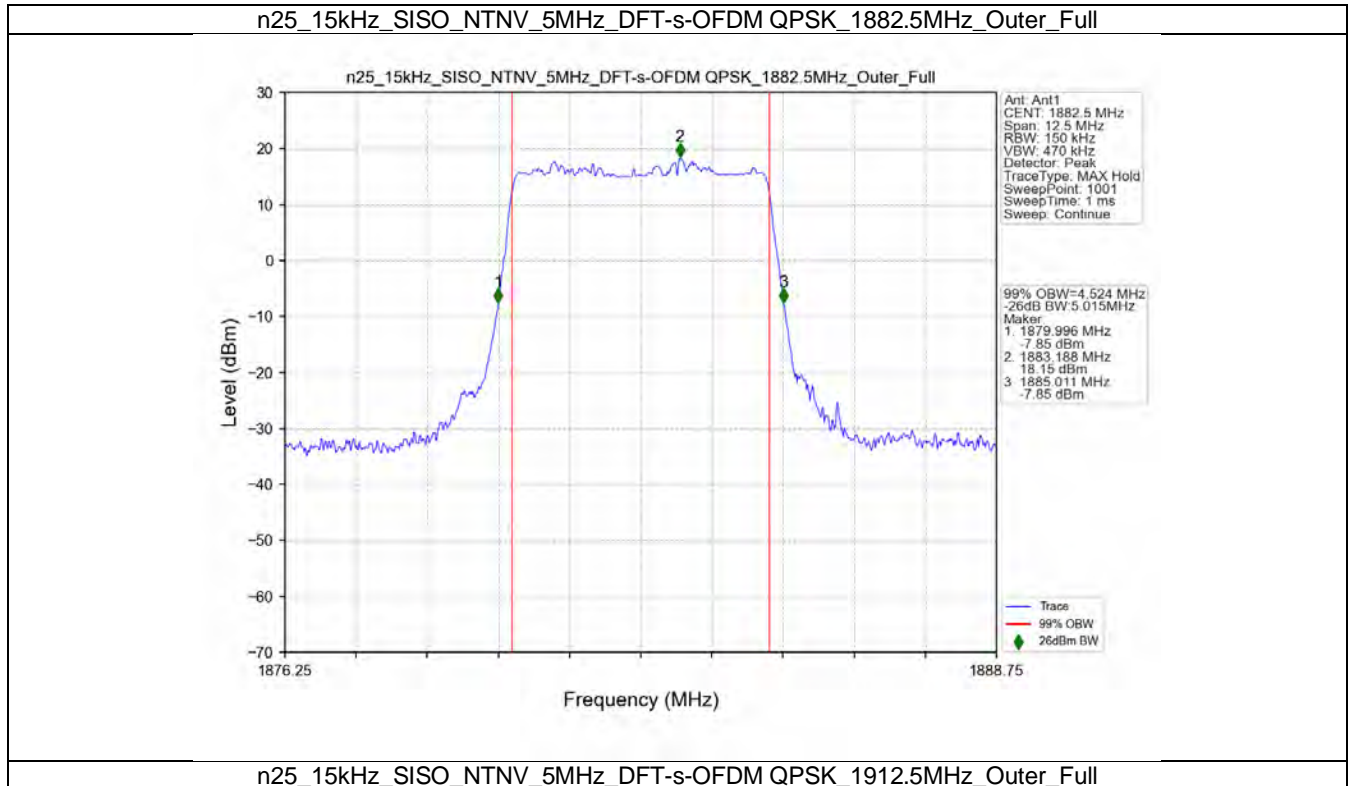


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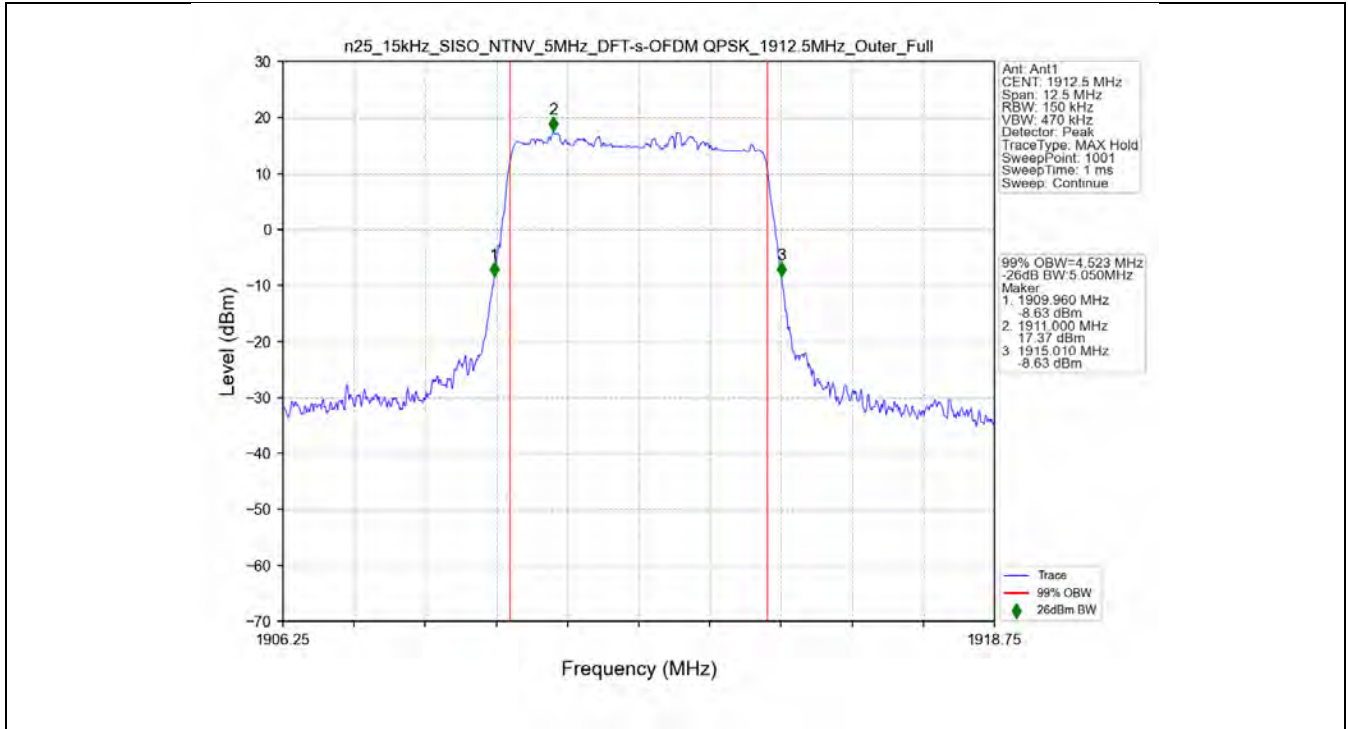


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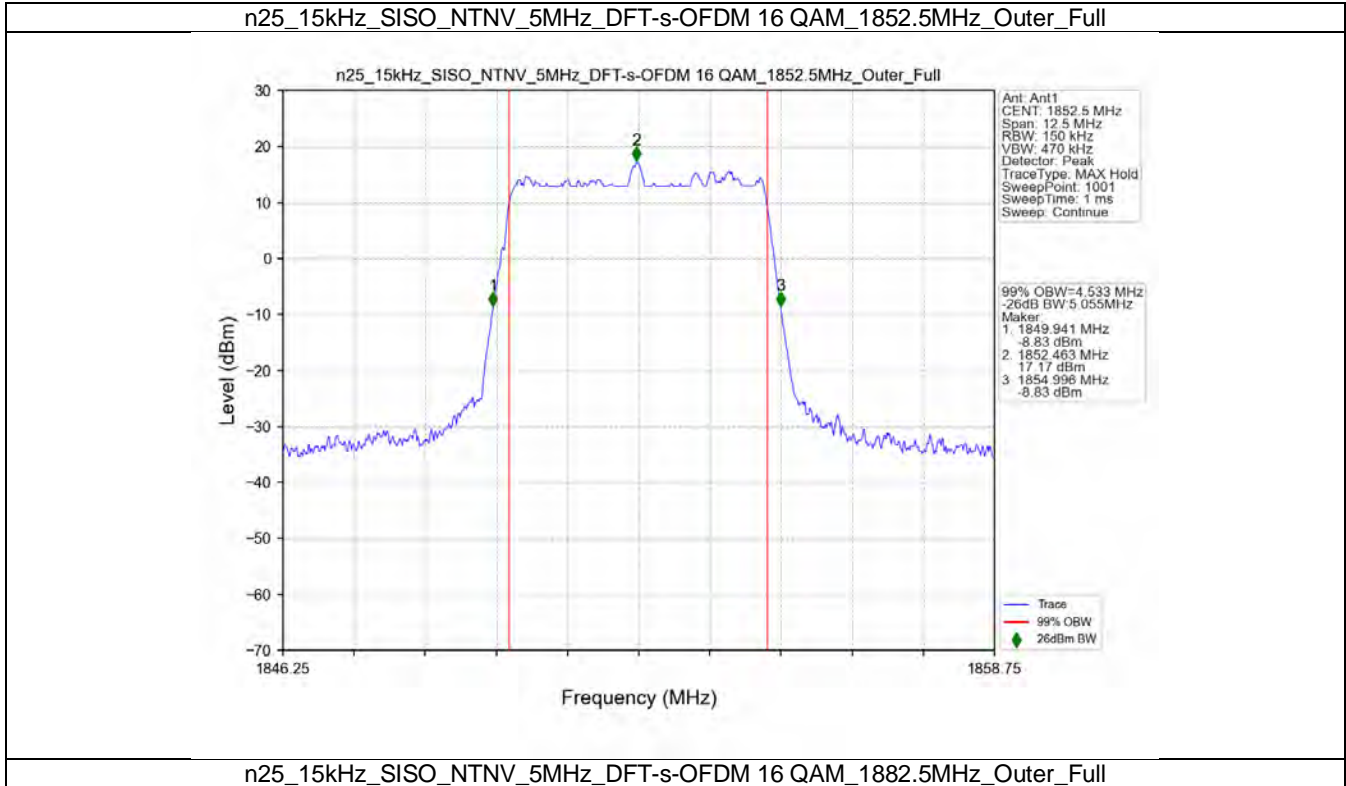


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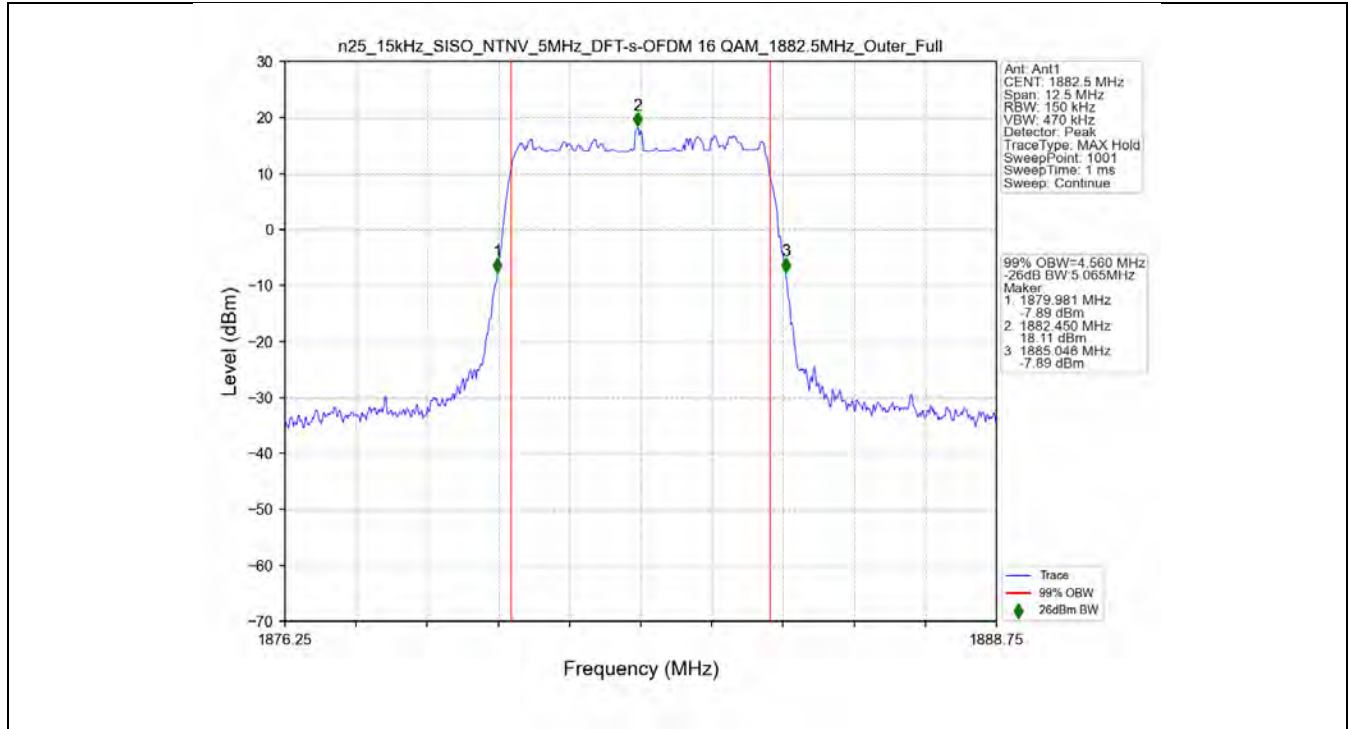


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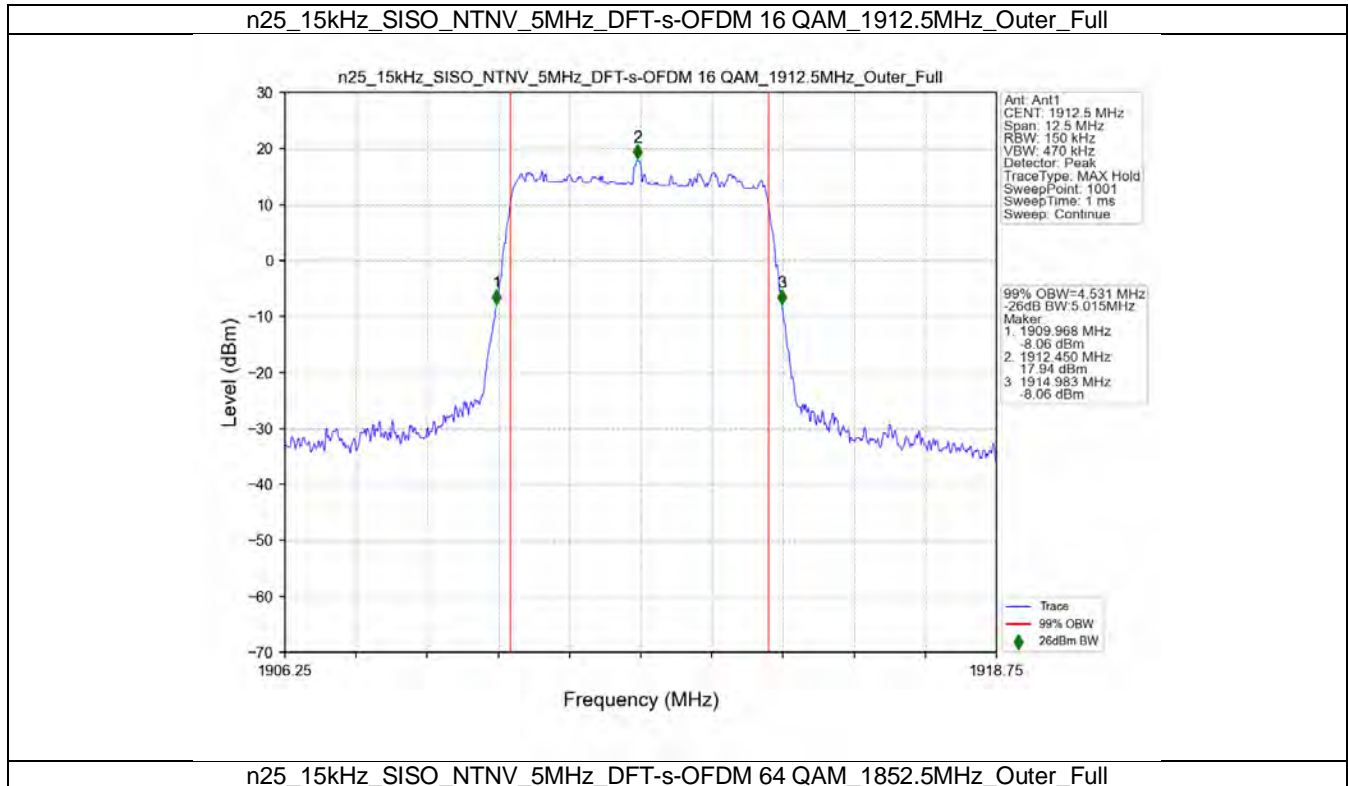


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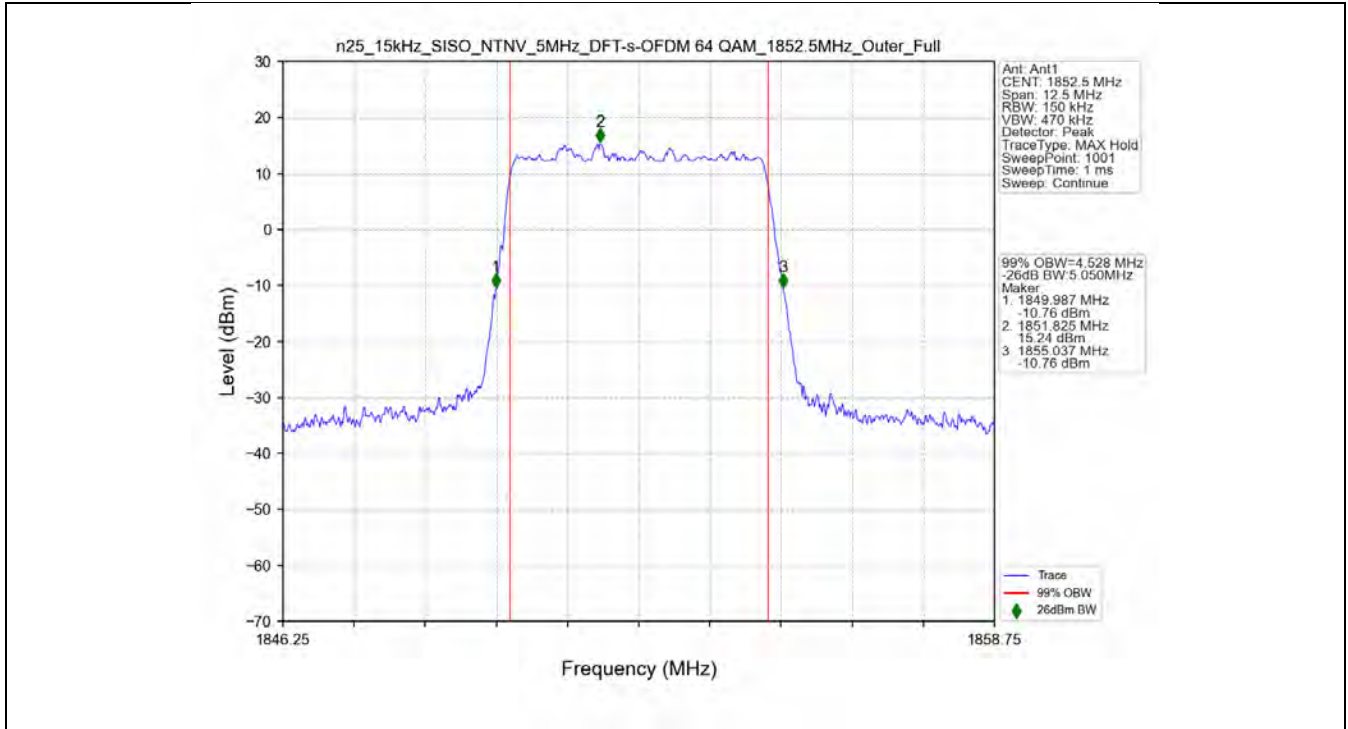


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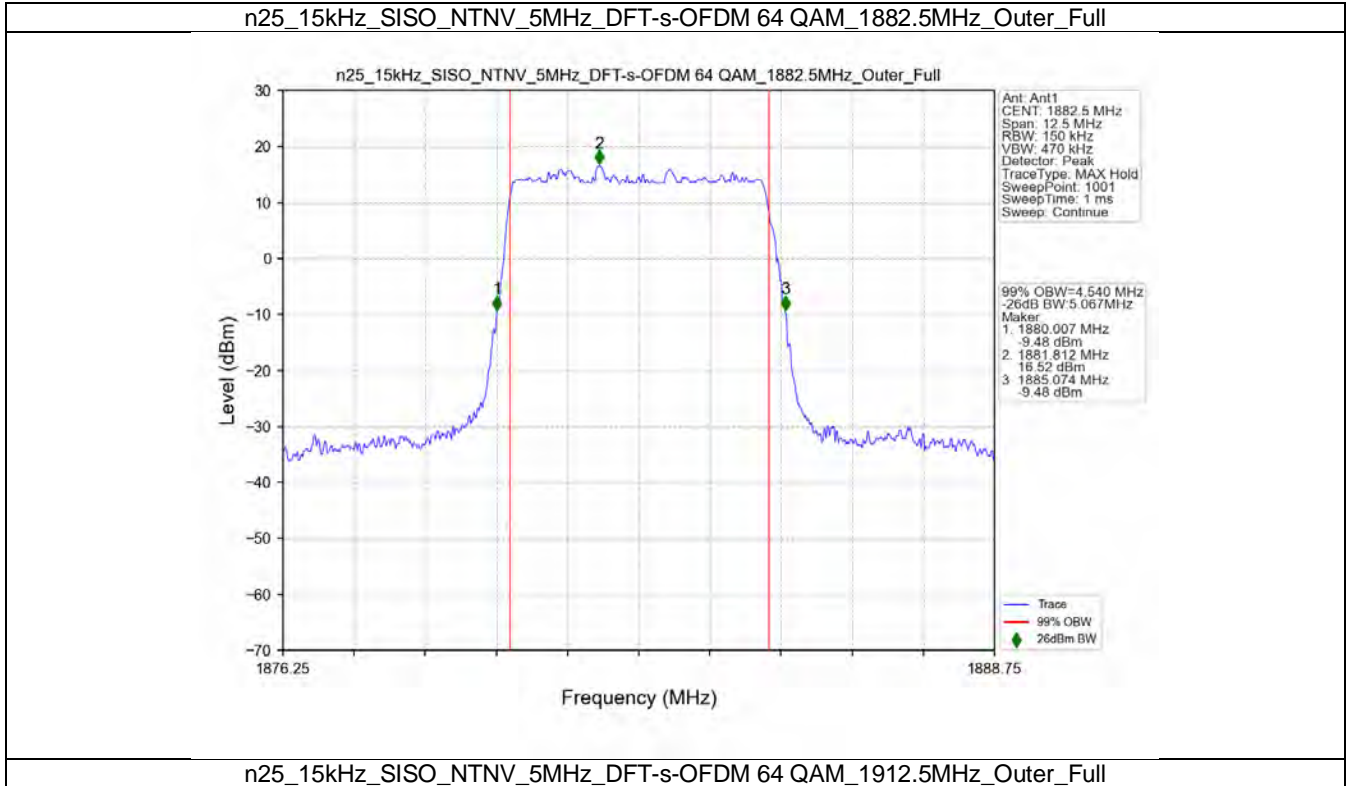


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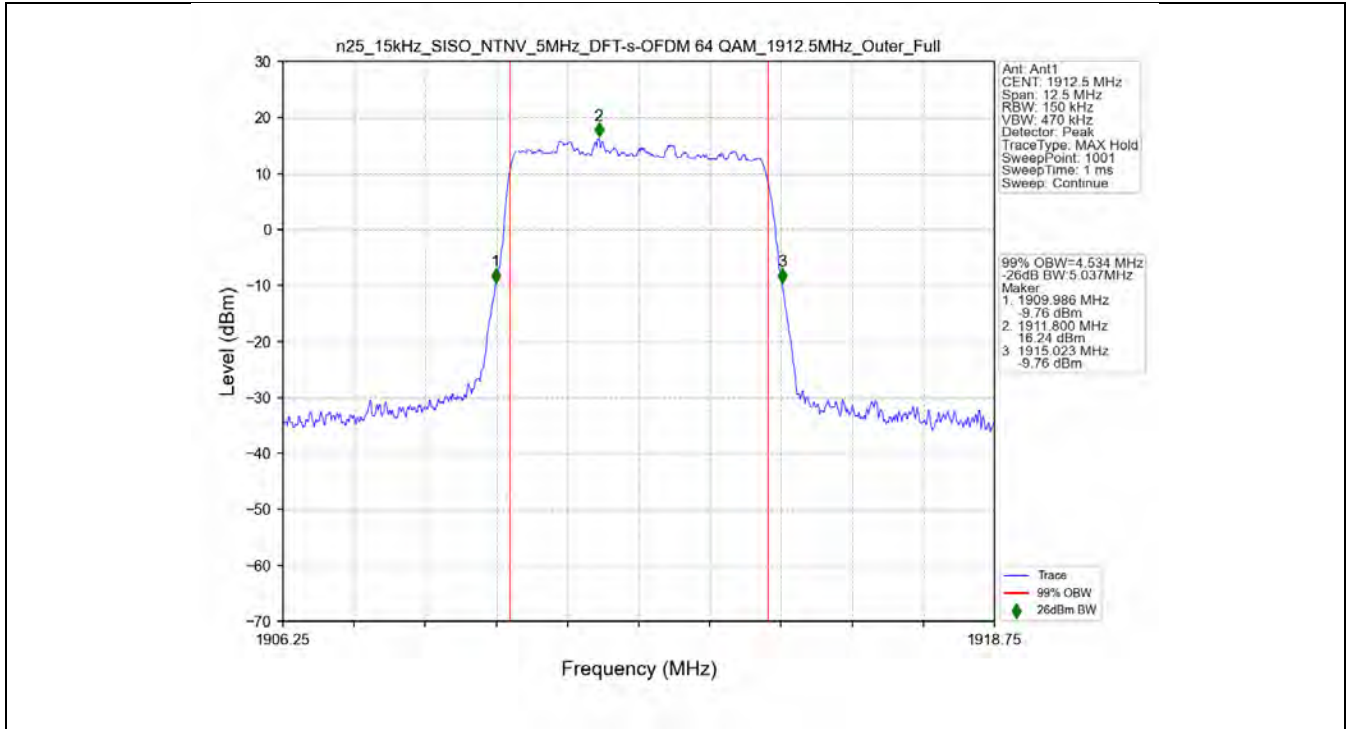


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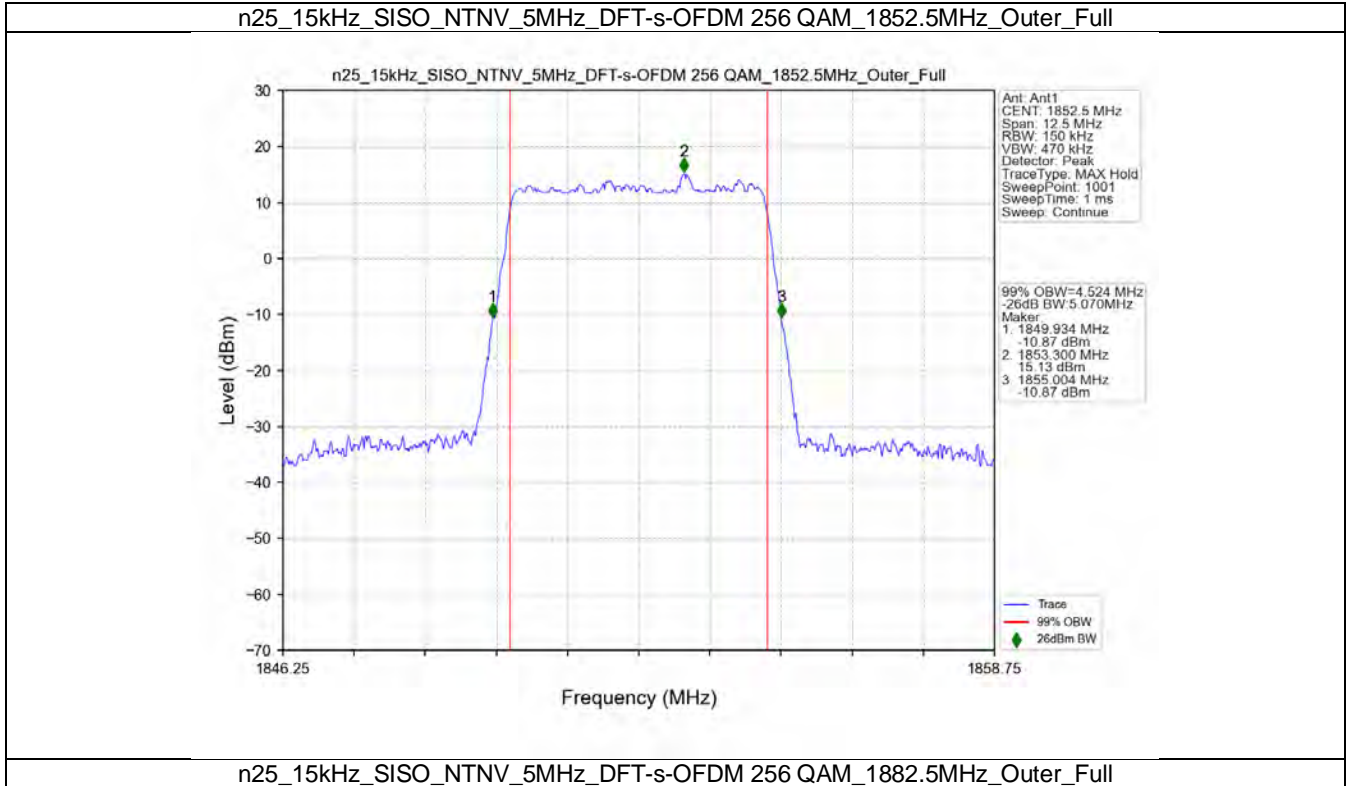


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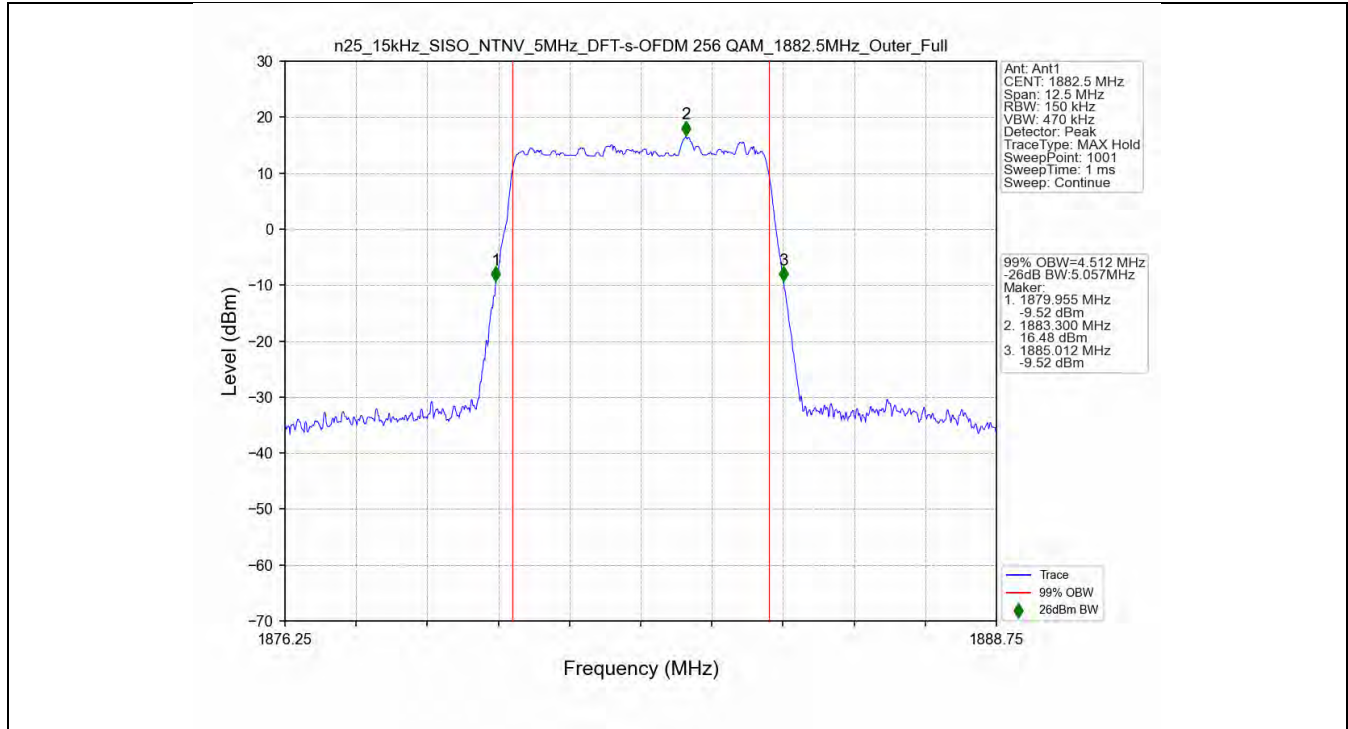


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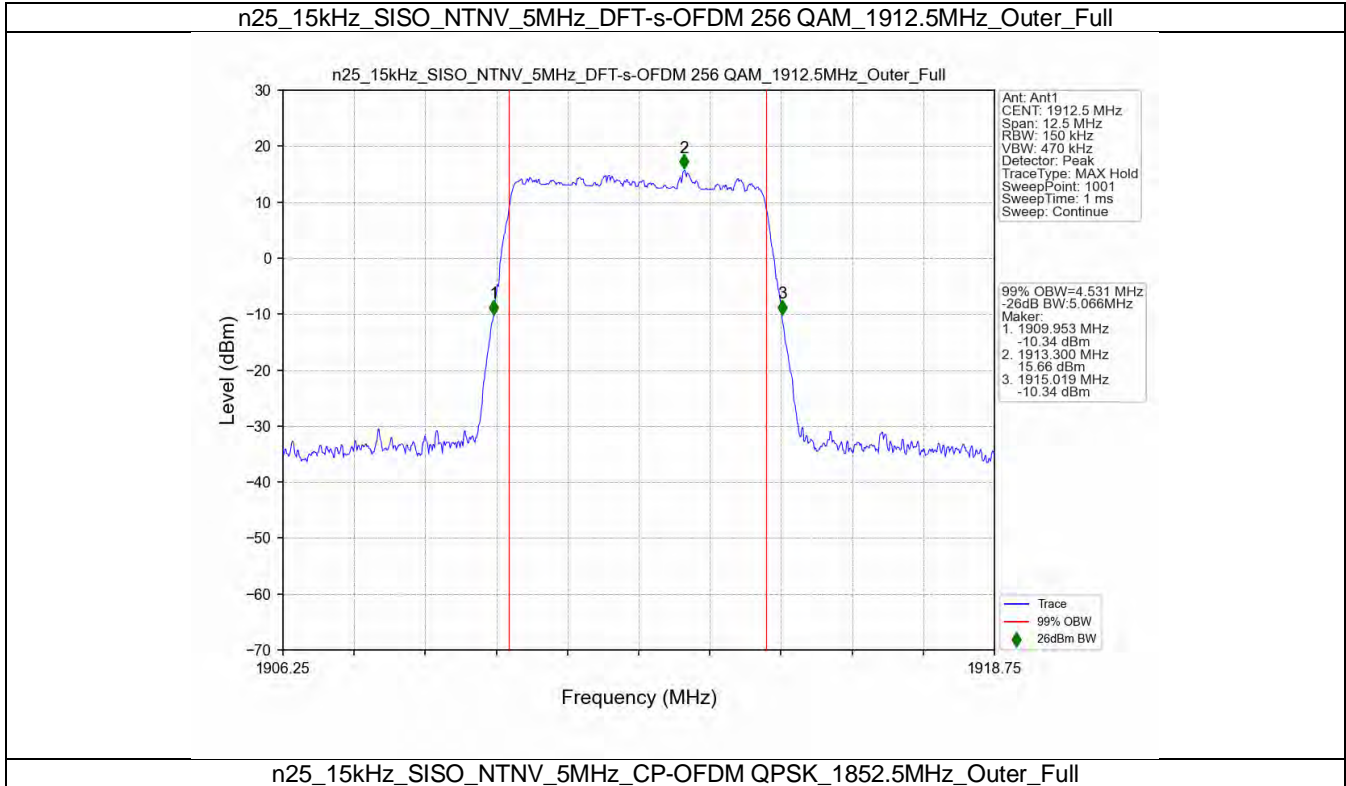


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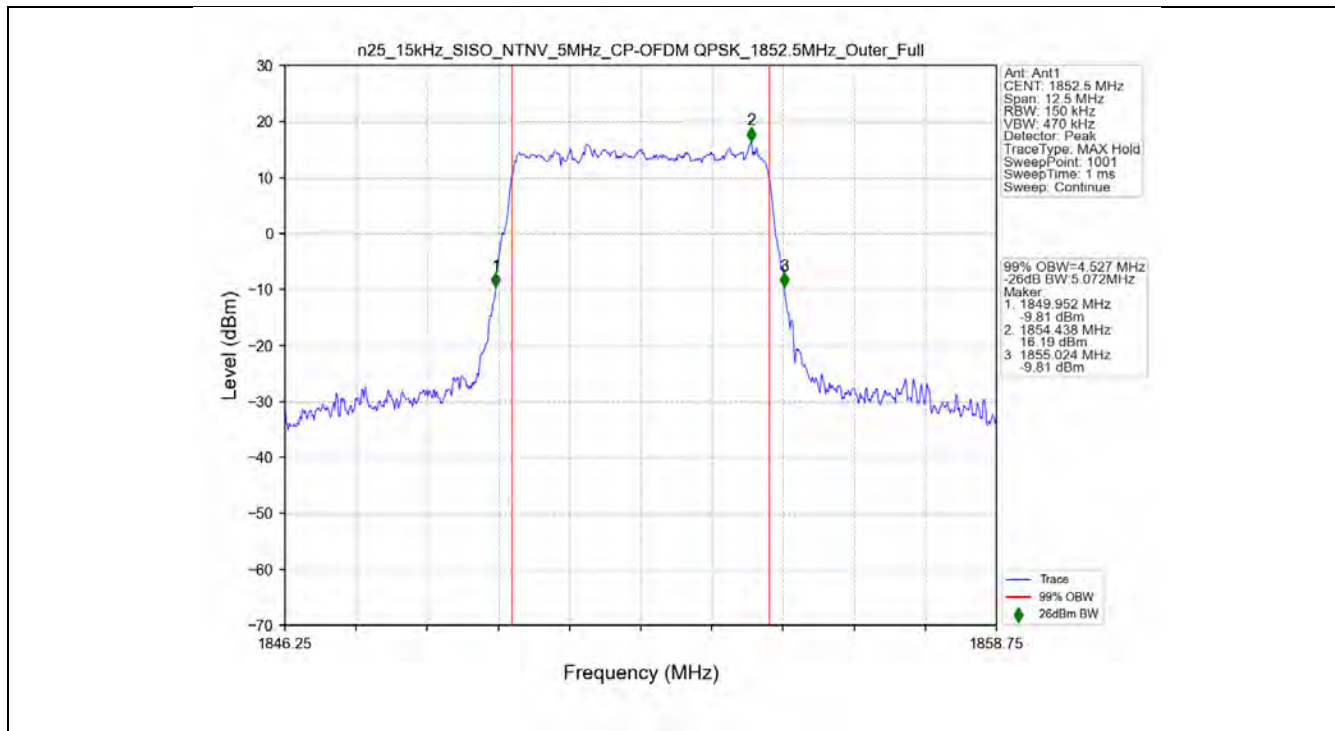
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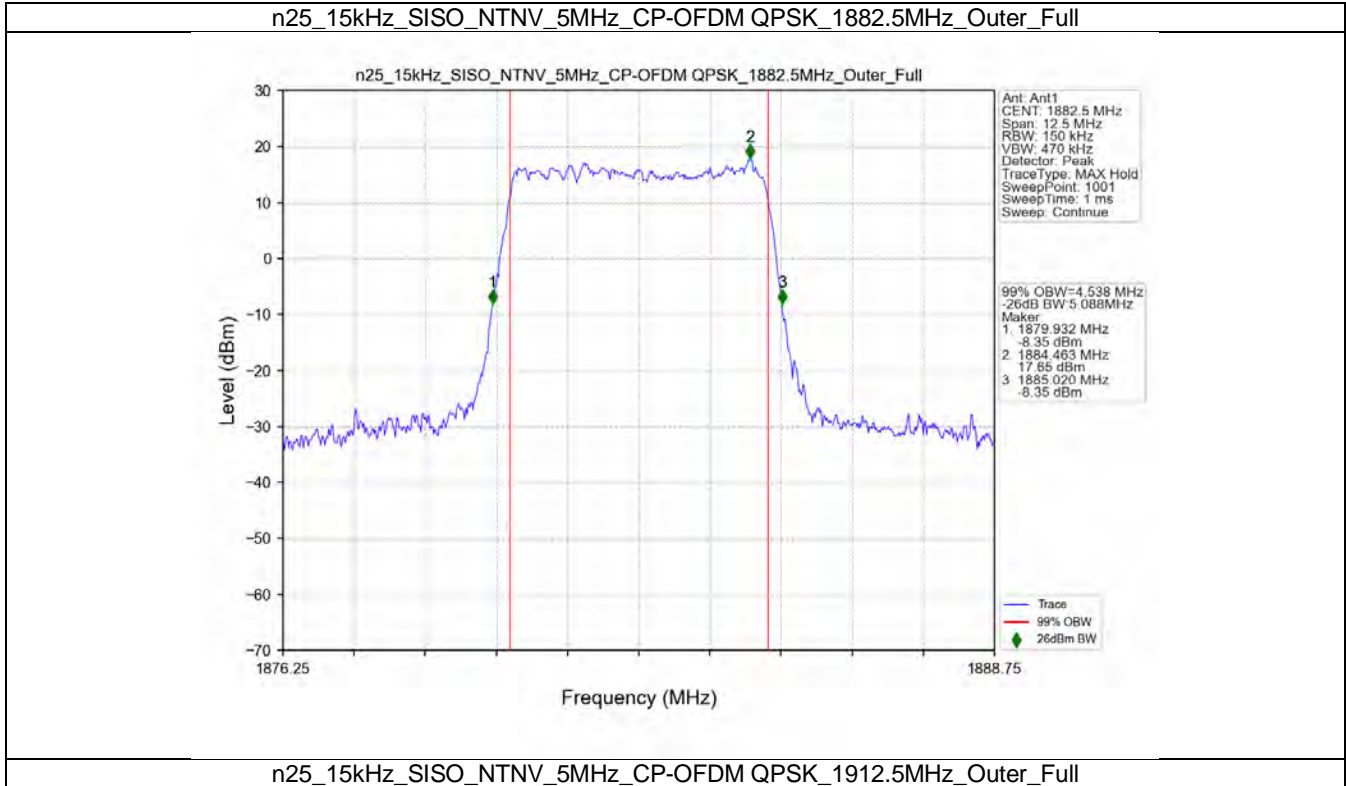


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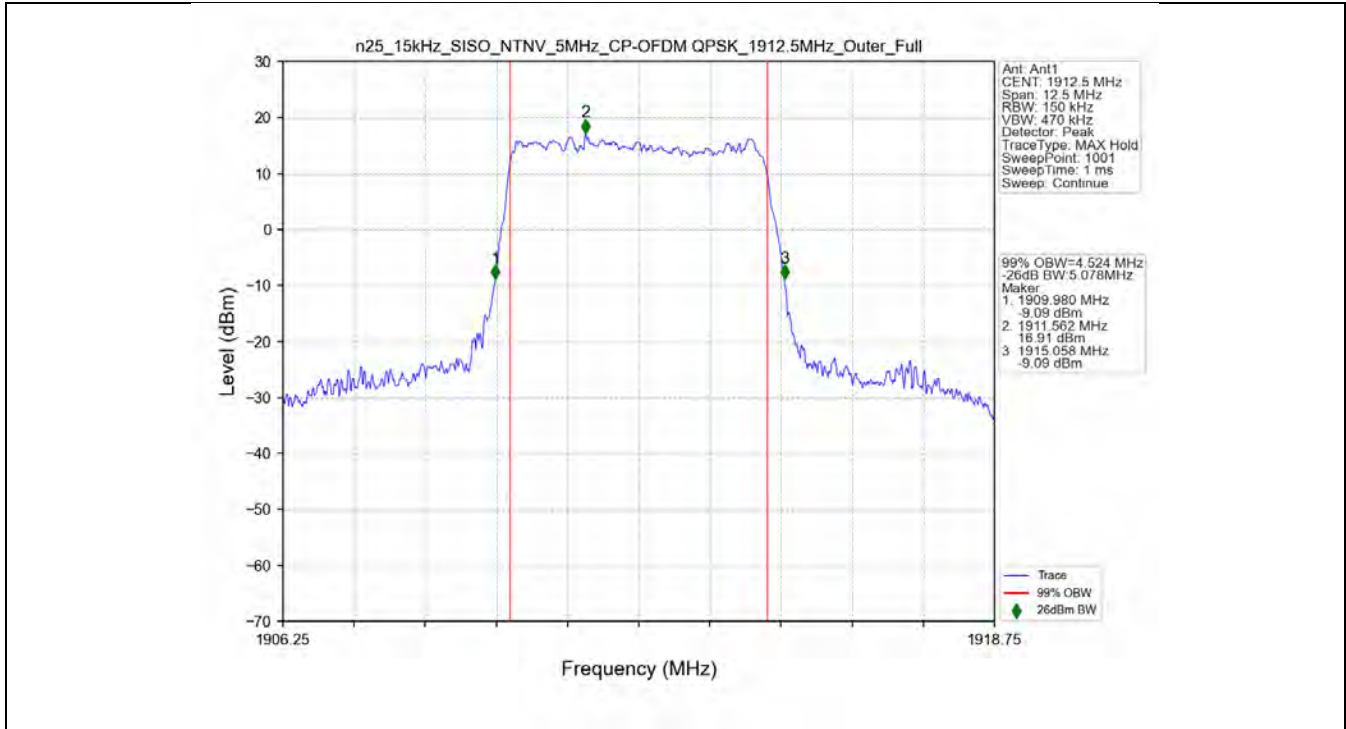


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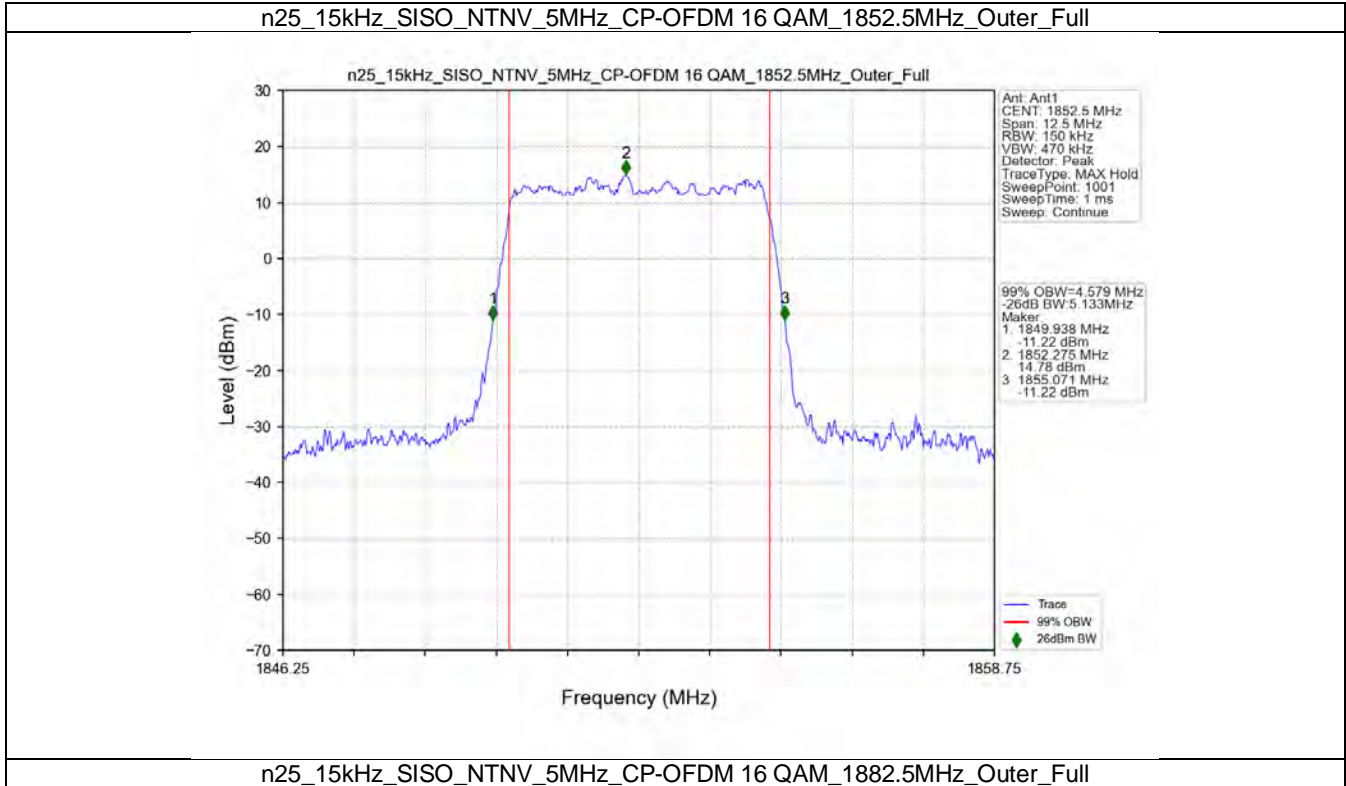


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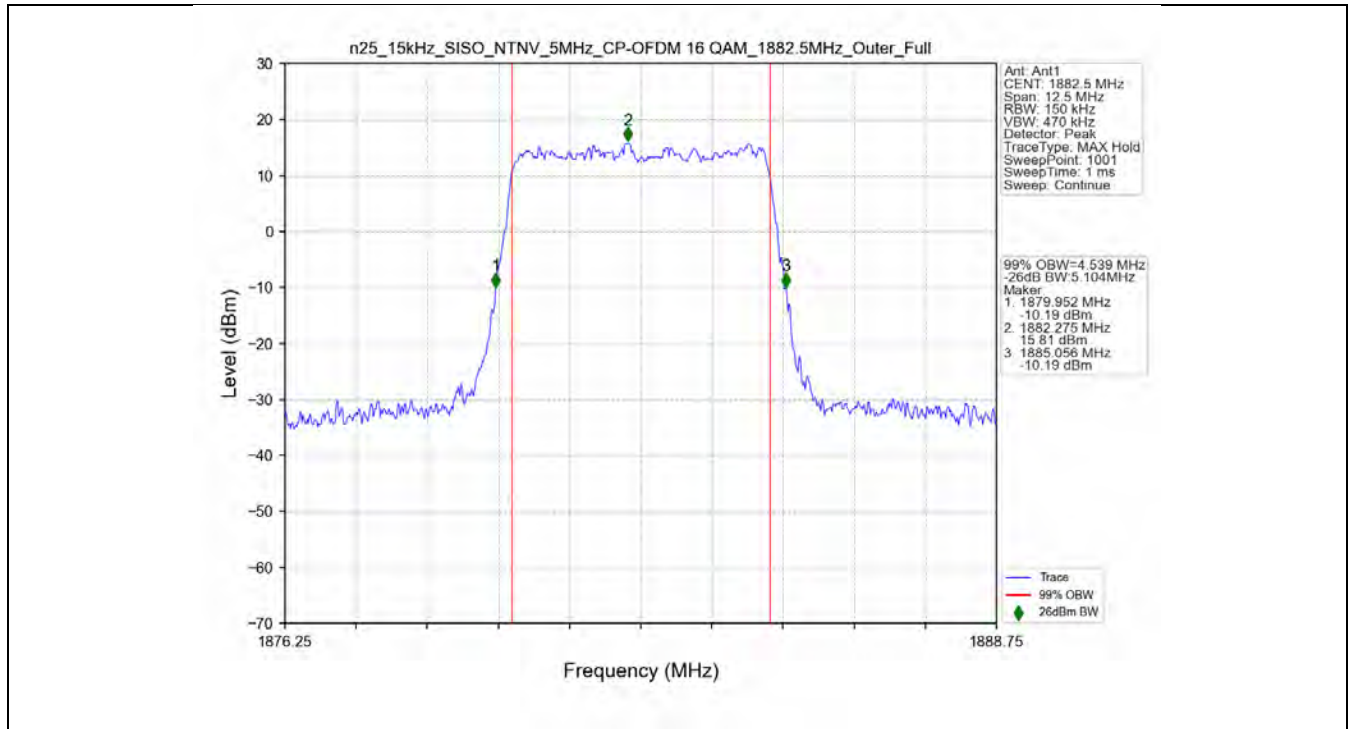


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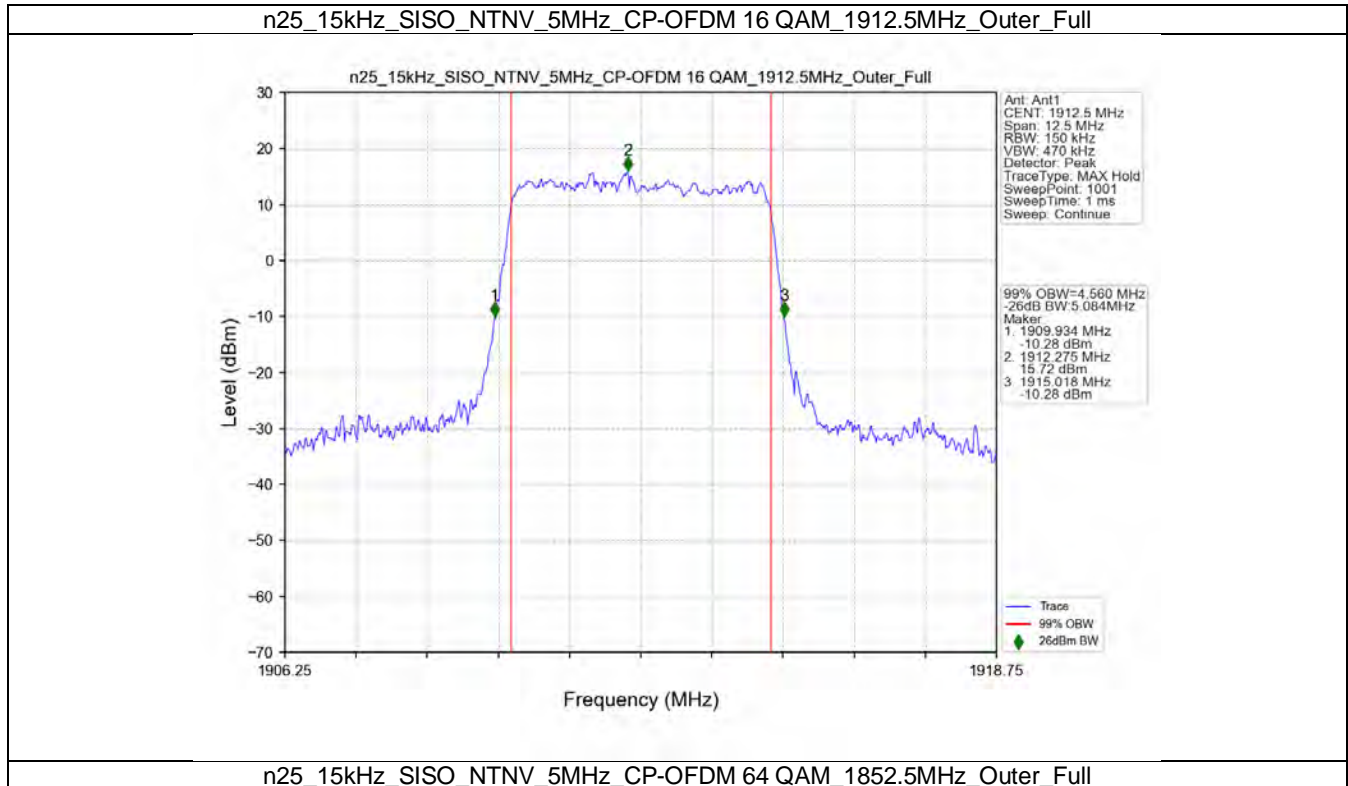


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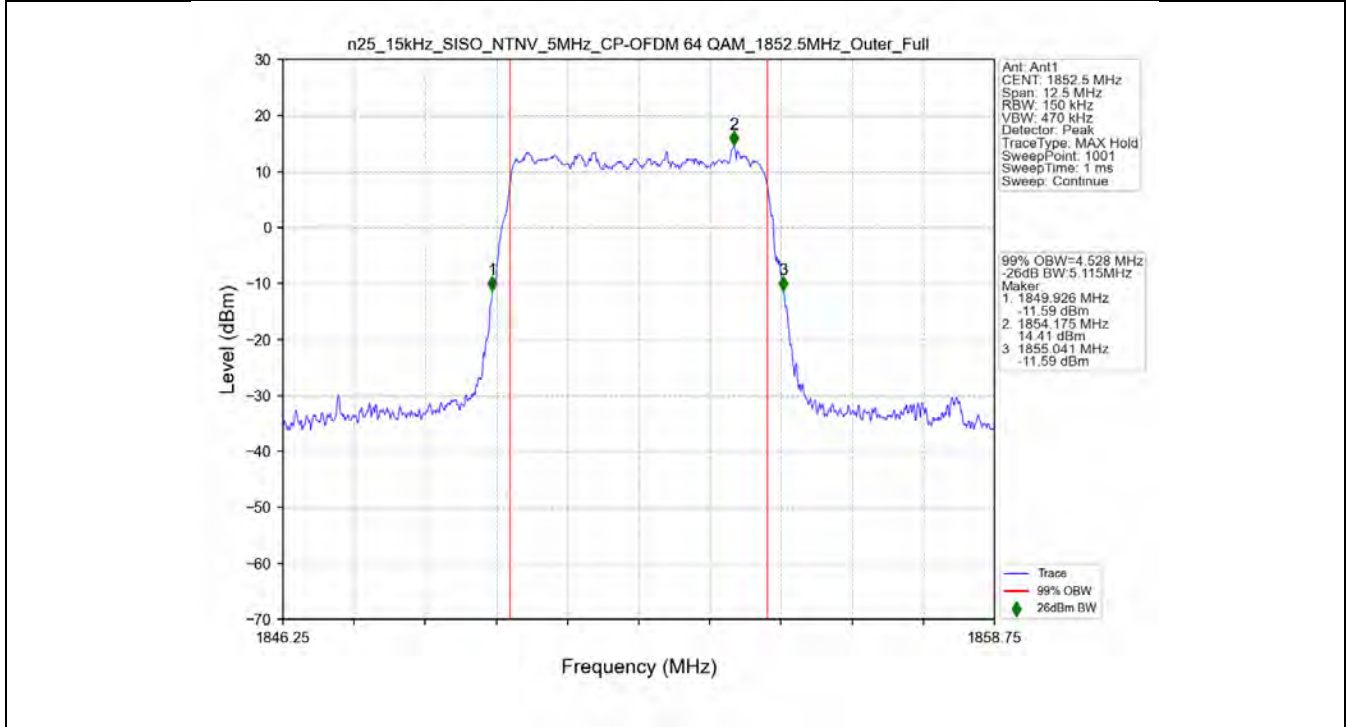
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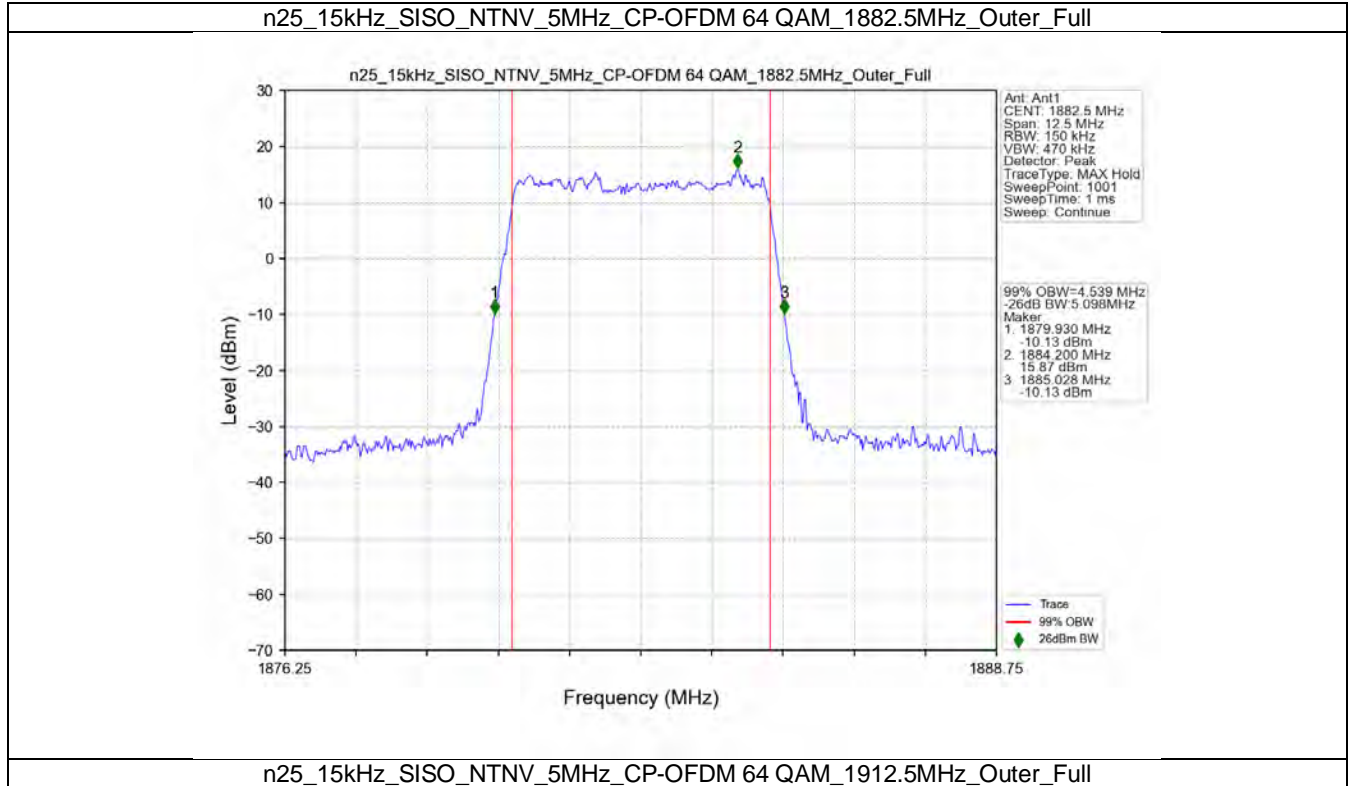


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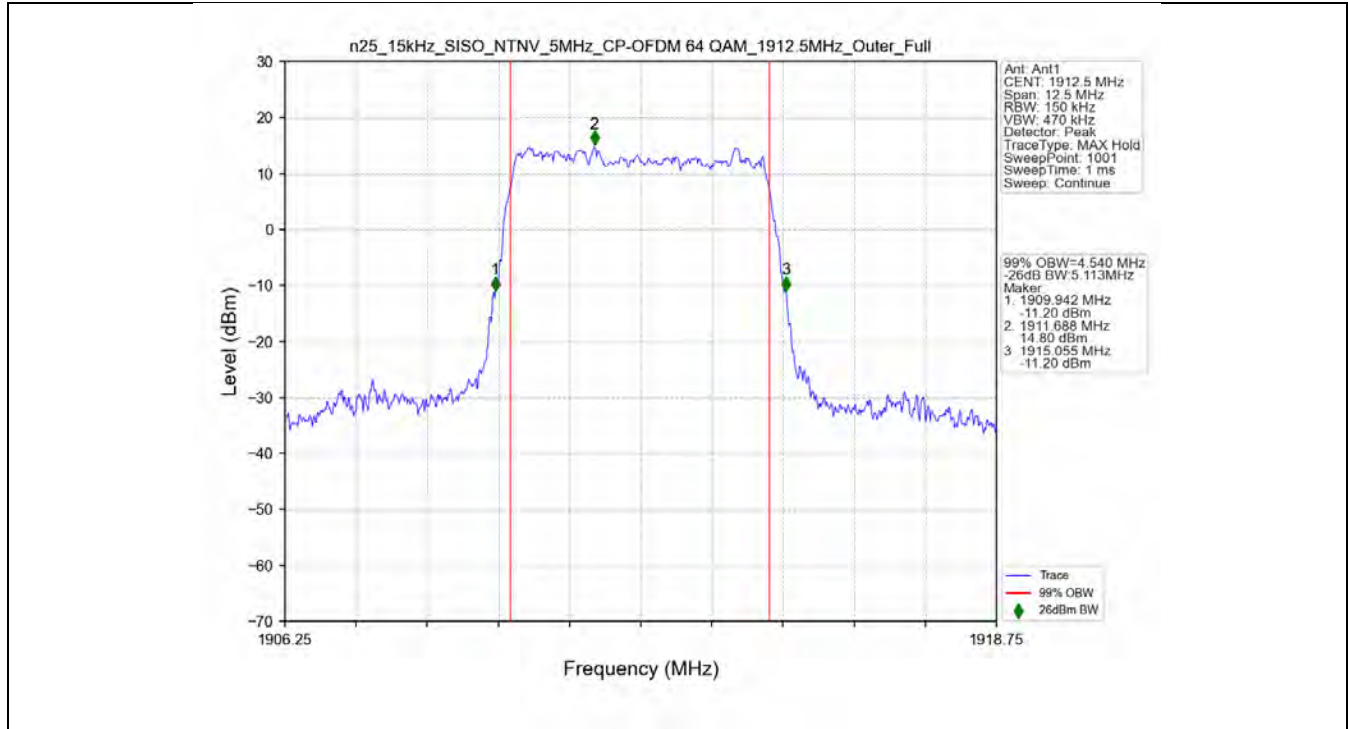


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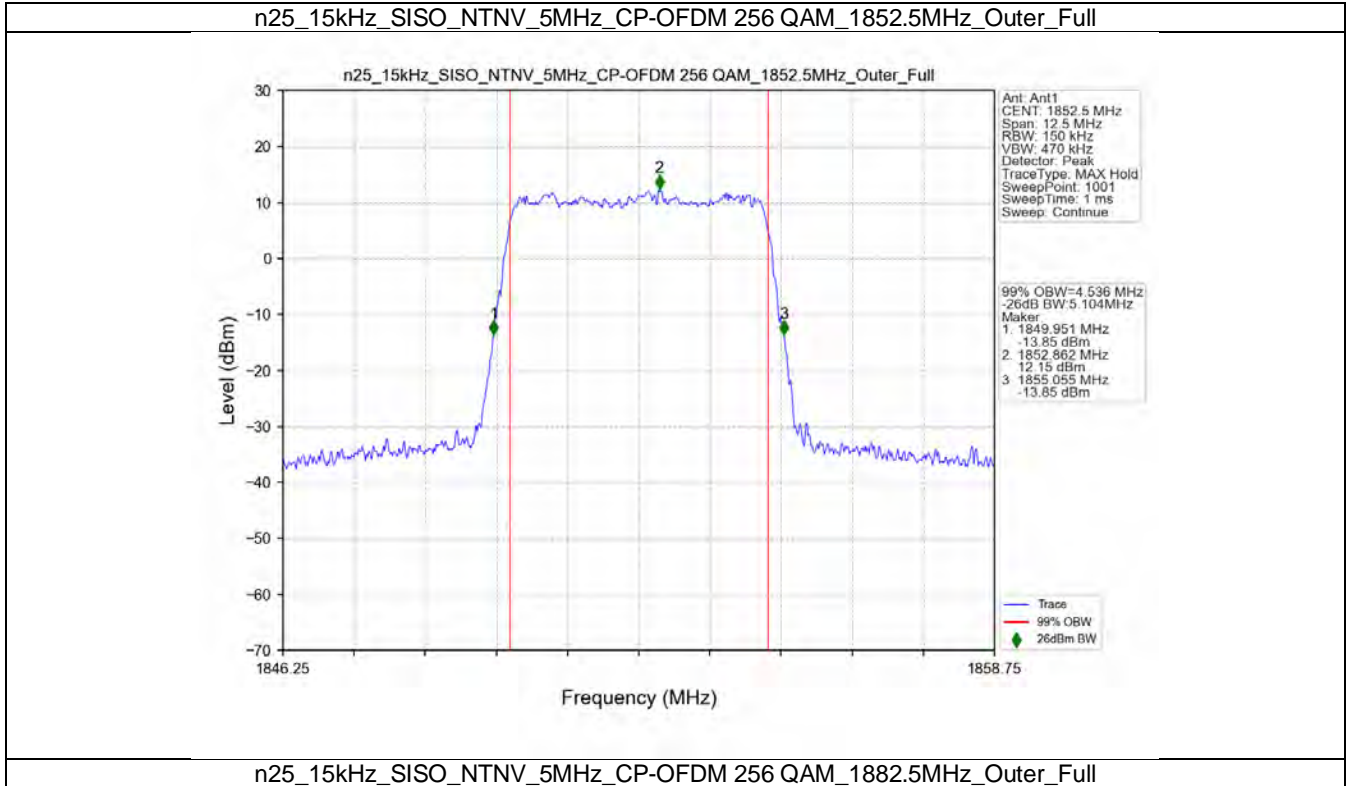


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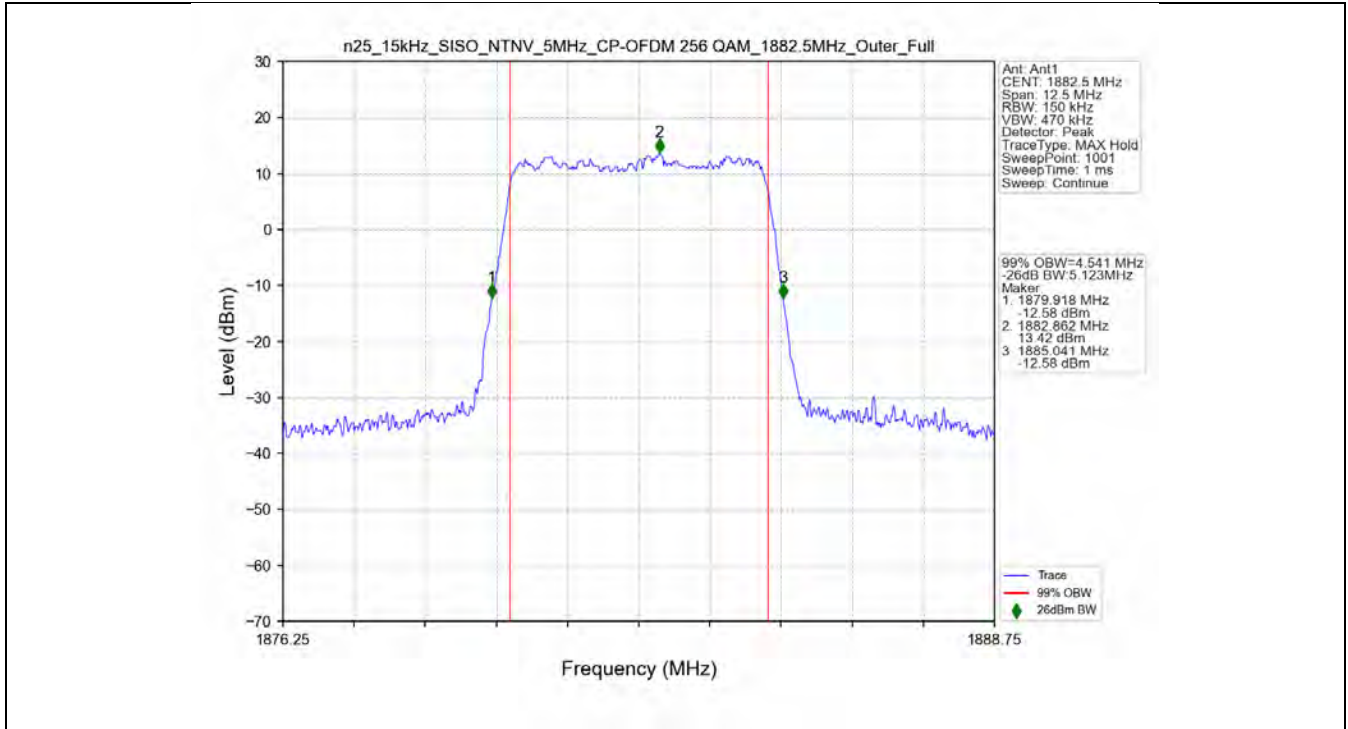


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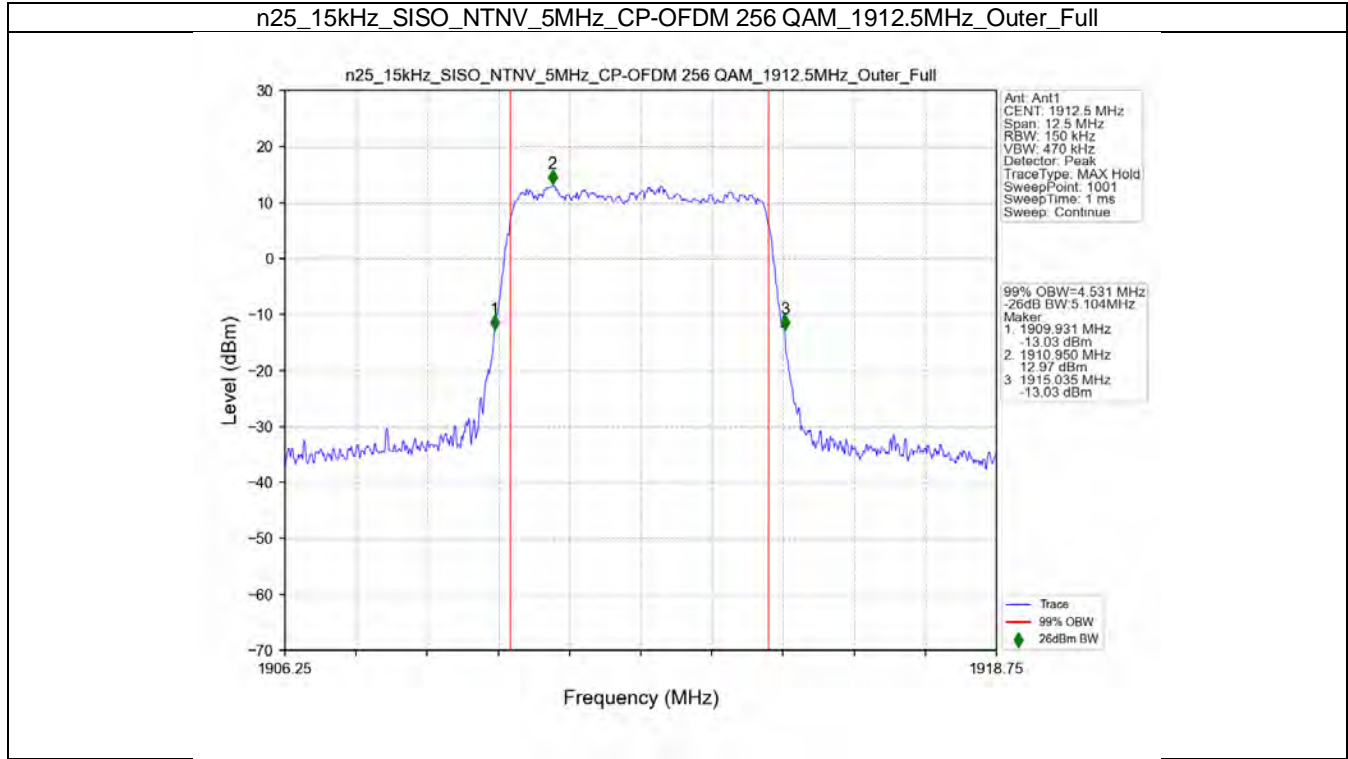


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3.2 15k_SISO_10MHz_NTNV

3.2.1 Test Result

5G NR n25 SCS=15kHz SISO 10MHz NTNv						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	1855	Outer_Full	9.03	9.81	/	Pass
	1882.5	Outer_Full	9.06	9.81	/	Pass
	1910	Outer_Full	9.03	9.81	/	Pass
DFT-s-OFDM QPSK	1855	Outer_Full	9.06	9.85	/	Pass
	1882.5	Outer_Full	9.06	9.89	/	Pass
	1910	Outer_Full	9.04	9.85	/	Pass
DFT-s-OFDM 16 QAM	1855	Outer_Full	9.07	9.85	/	Pass
	1882.5	Outer_Full	9.07	9.88	/	Pass
	1910	Outer_Full	9.04	9.77	/	Pass
DFT-s-OFDM 64 QAM	1855	Outer_Full	9.04	9.89	/	Pass
	1882.5	Outer_Full	9.04	9.86	/	Pass
	1910	Outer_Full	9.03	9.81	/	Pass
DFT-s-OFDM 256 QAM	1855	Outer_Full	9.05	9.84	/	Pass
	1882.5	Outer_Full	9.05	9.90	/	Pass
	1910	Outer_Full	9.03	9.92	/	Pass
CP-OFDM QPSK	1855	Outer_Full	9.37	10.31	/	Pass
	1882.5	Outer_Full	9.38	10.30	/	Pass
	1910	Outer_Full	9.34	10.23	/	Pass
CP-OFDM 16 QAM	1855	Outer_Full	9.39	10.23	/	Pass
	1882.5	Outer_Full	9.38	10.29	/	Pass
	1910	Outer_Full	9.35	10.22	/	Pass
CP-OFDM 64 QAM	1855	Outer_Full	9.36	10.21	/	Pass
	1882.5	Outer_Full	9.35	10.22	/	Pass
	1910	Outer_Full	9.33	10.15	/	Pass
CP-OFDM 256 QAM	1855	Outer_Full	9.41	10.22	/	Pass
	1882.5	Outer_Full	9.38	10.27	/	Pass
	1910	Outer_Full	9.38	10.21	/	Pass



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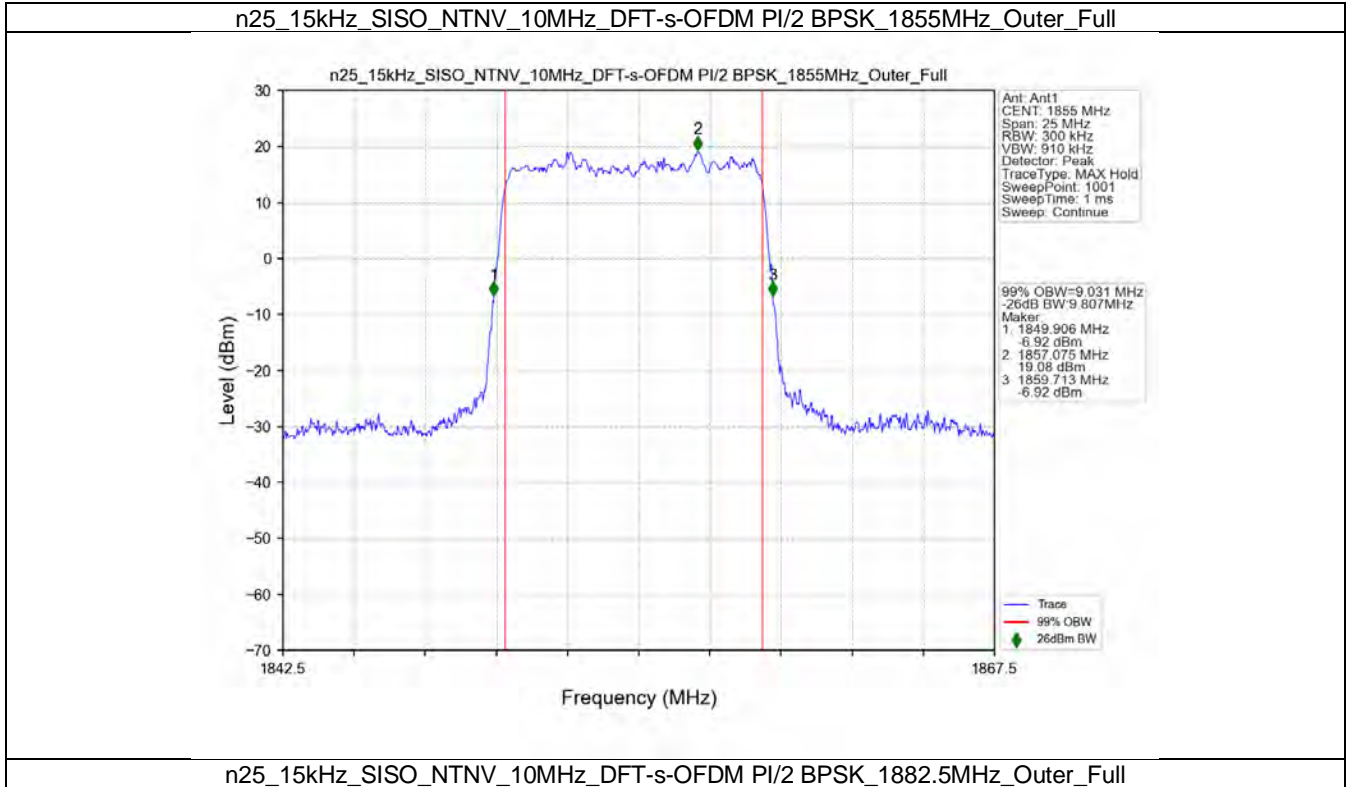
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3.2.2 Test Graph



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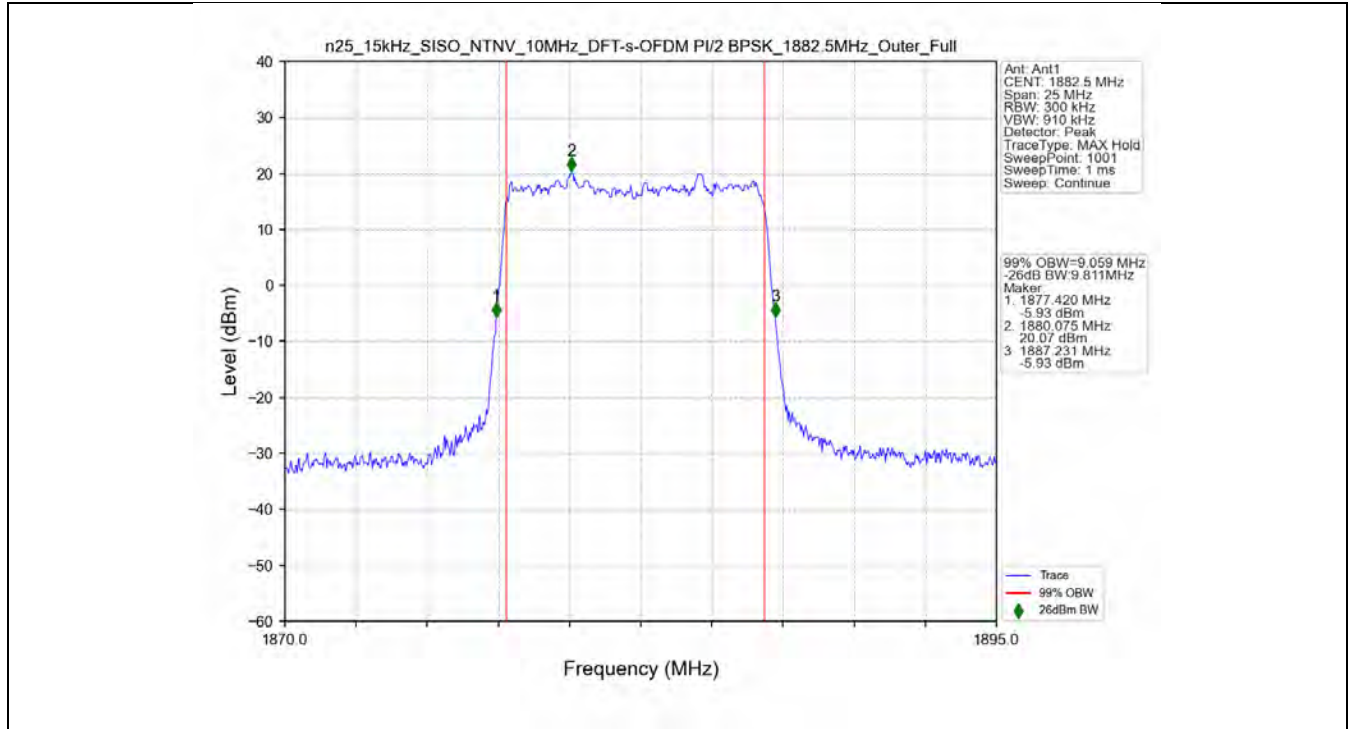


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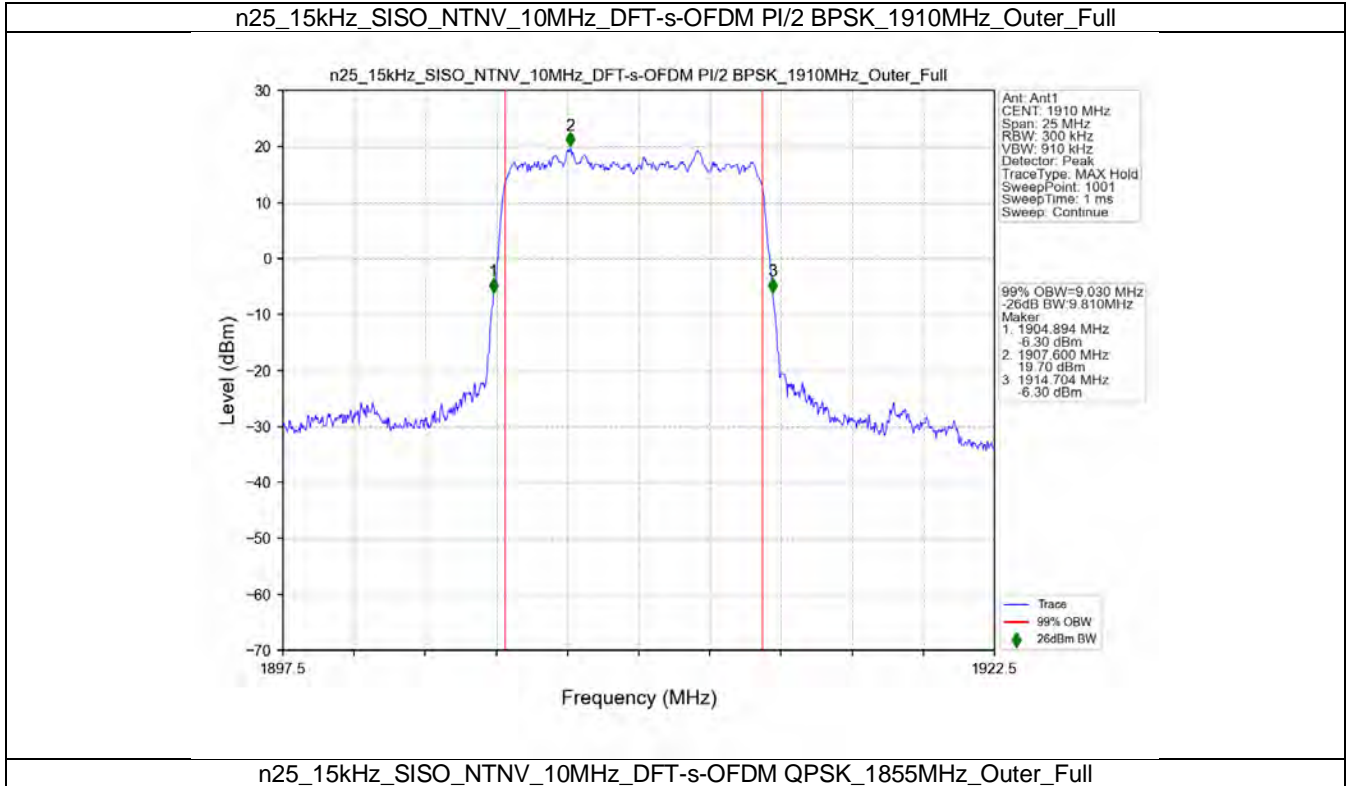


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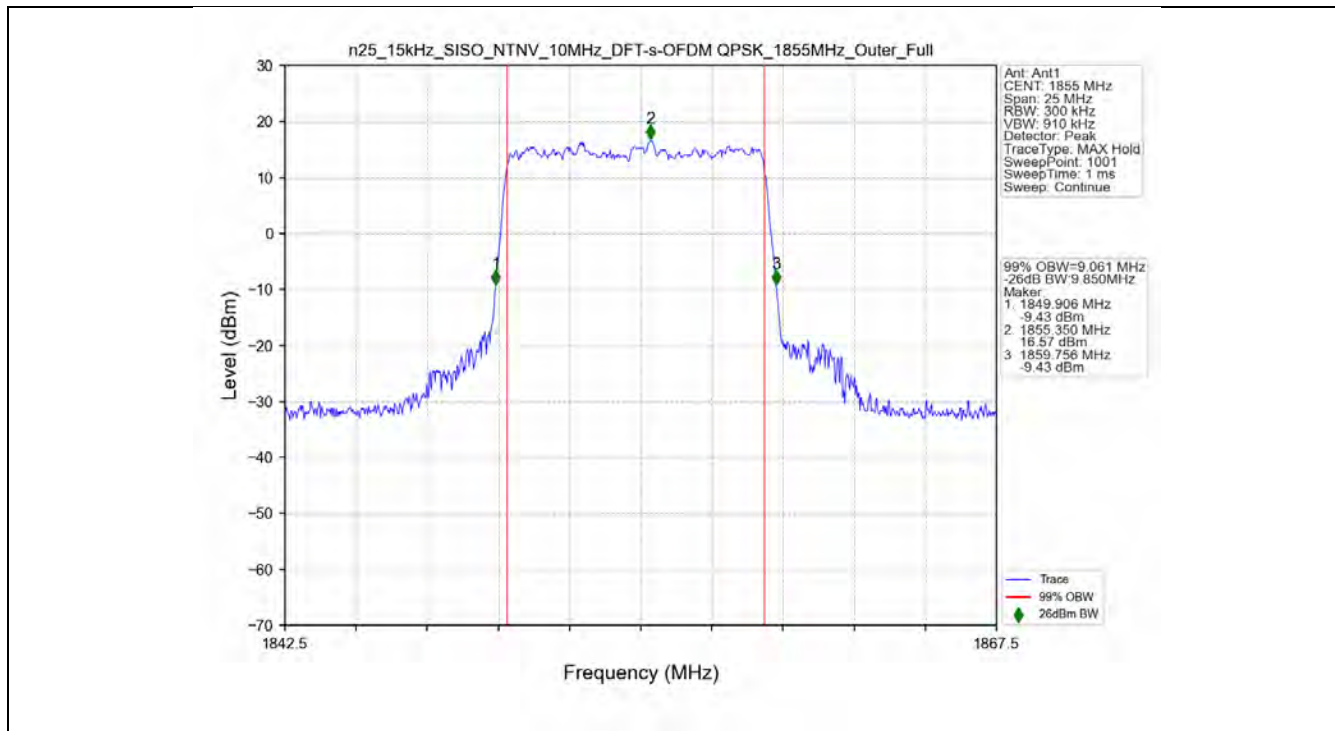
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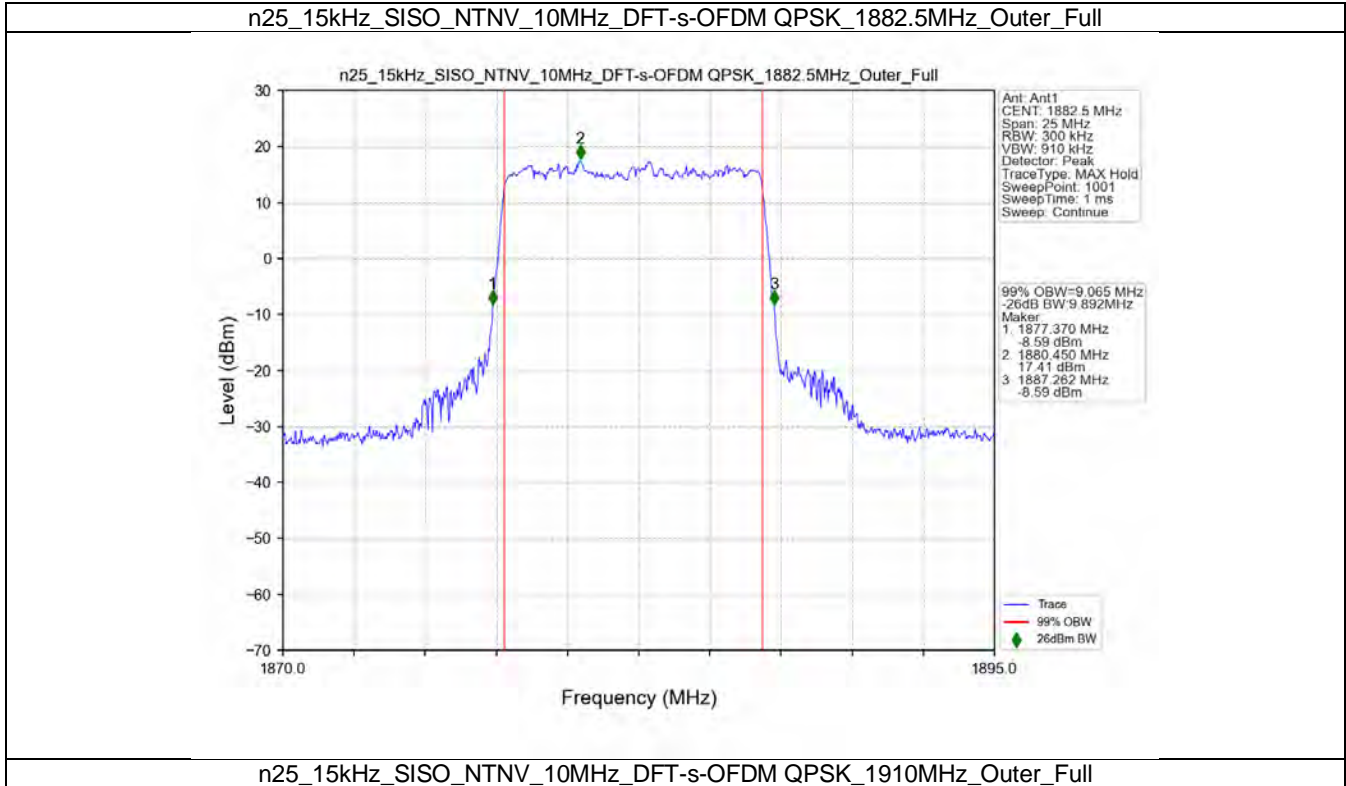


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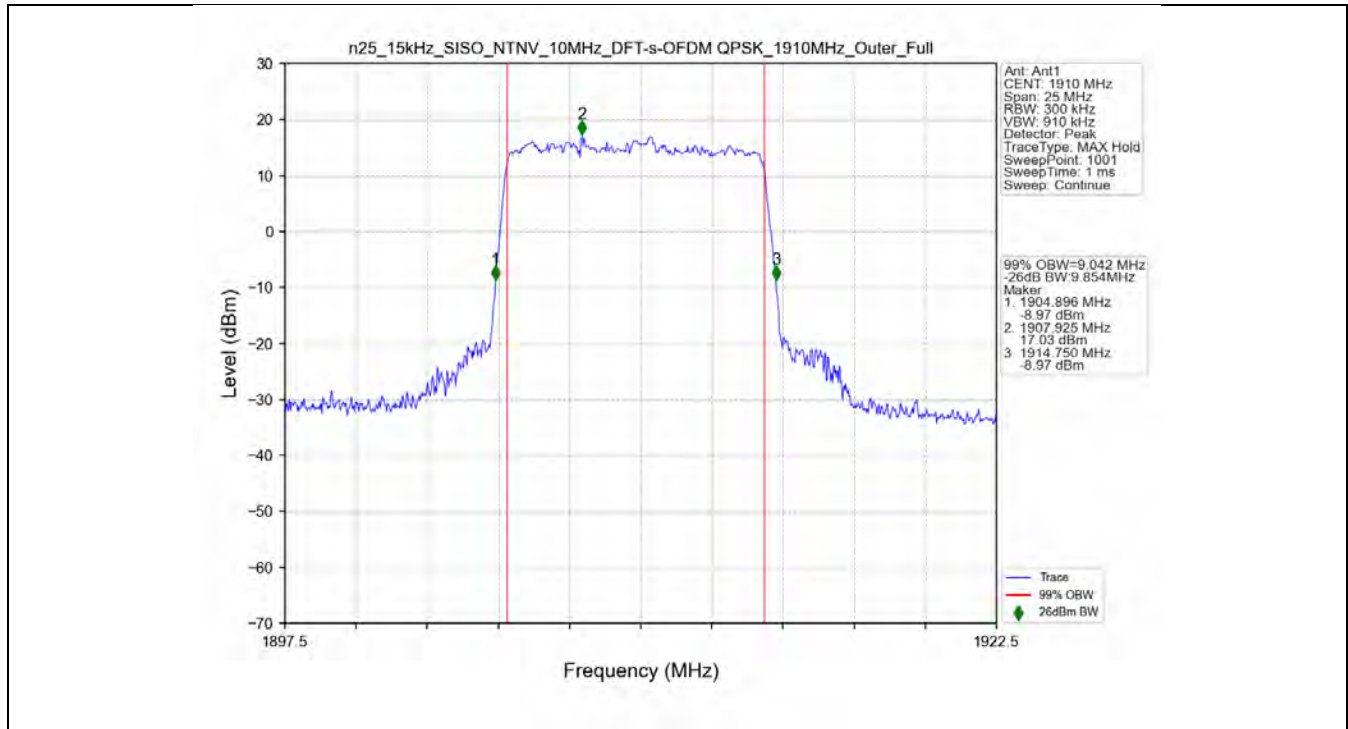


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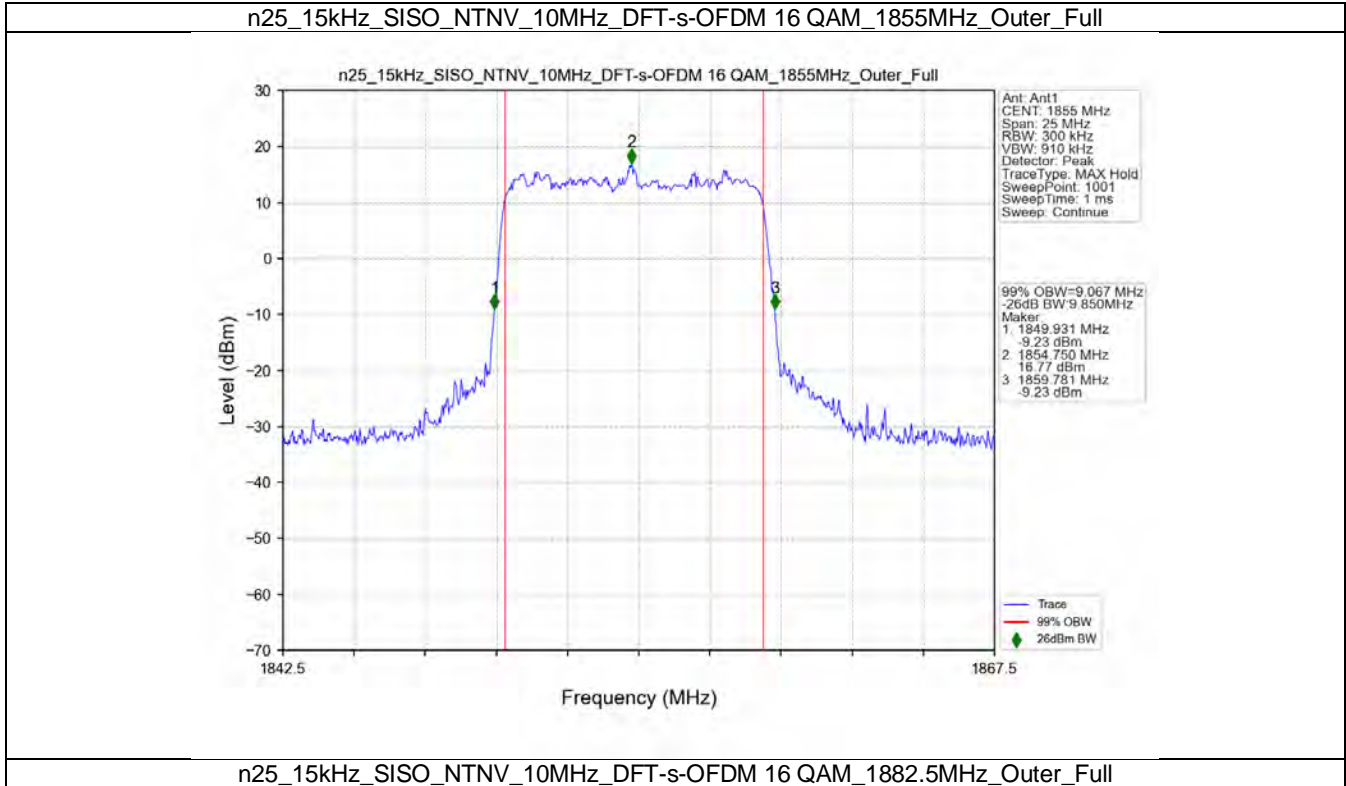


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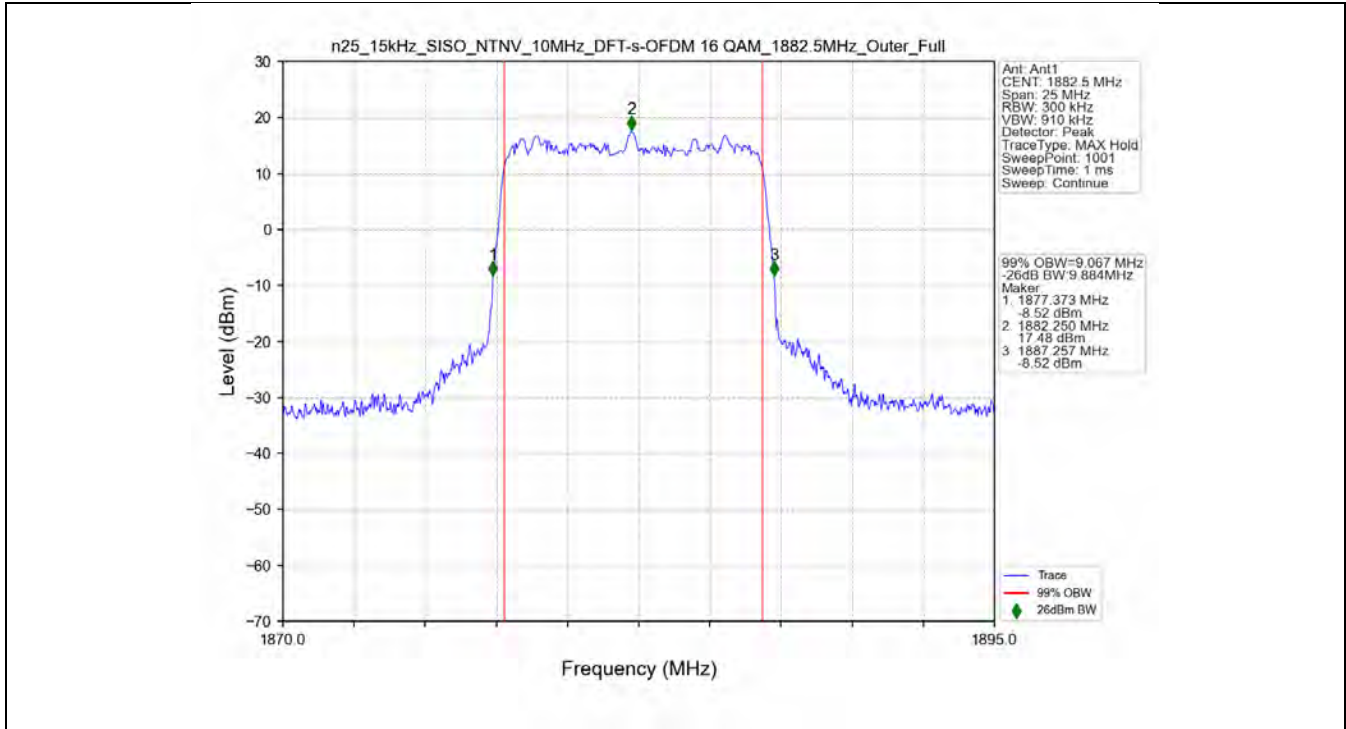


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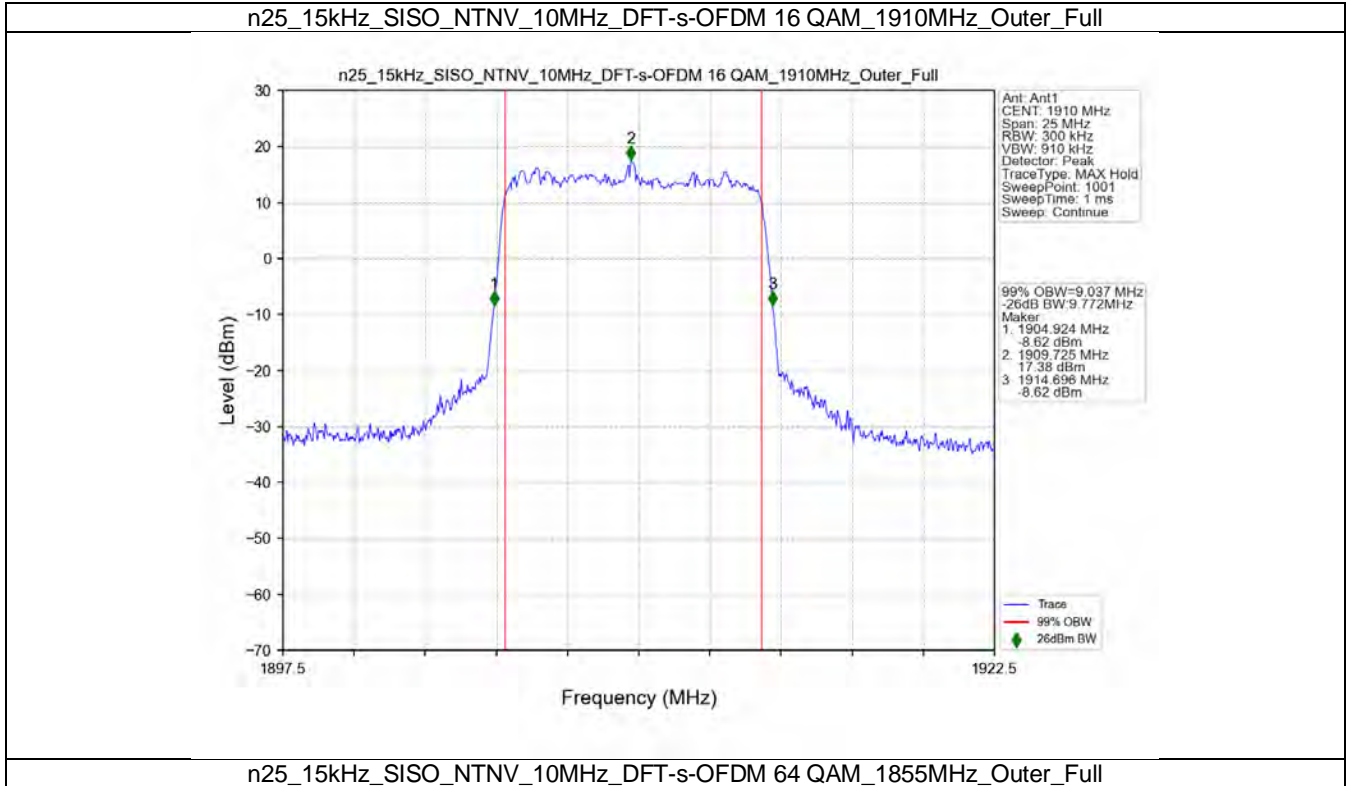


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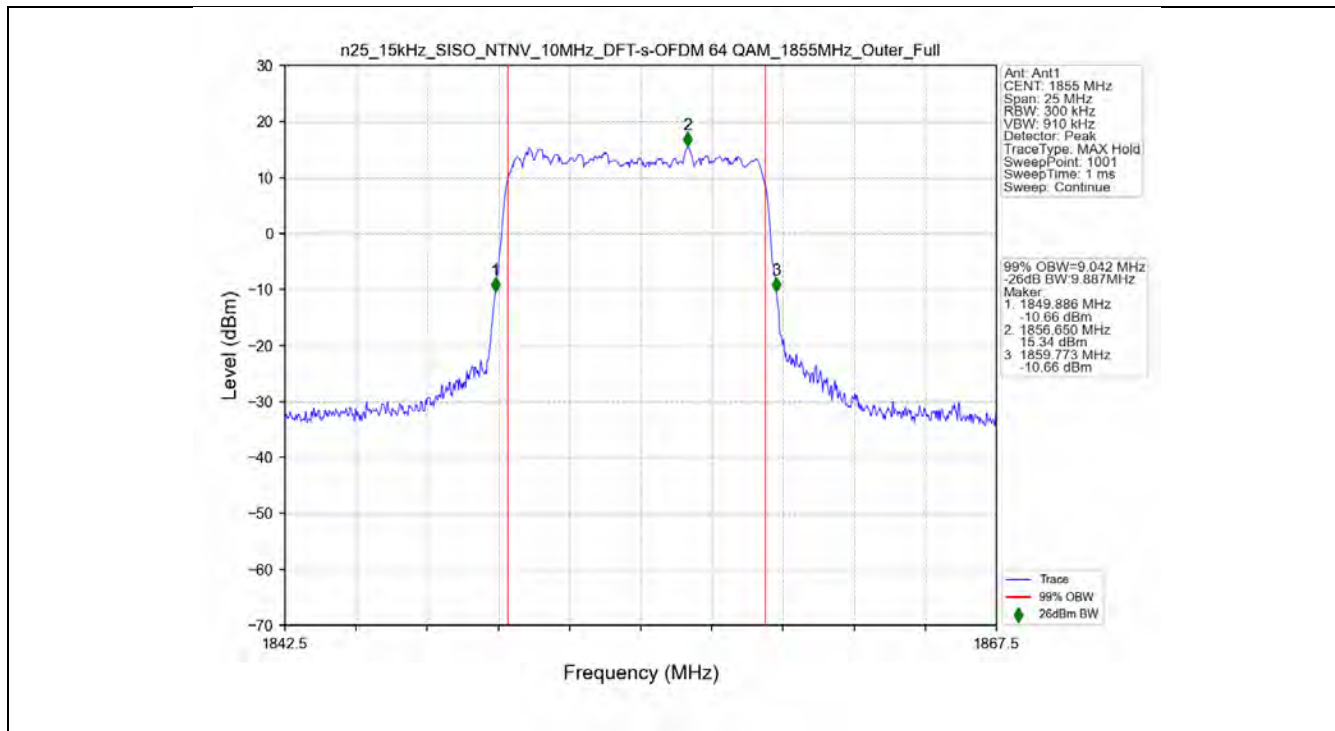
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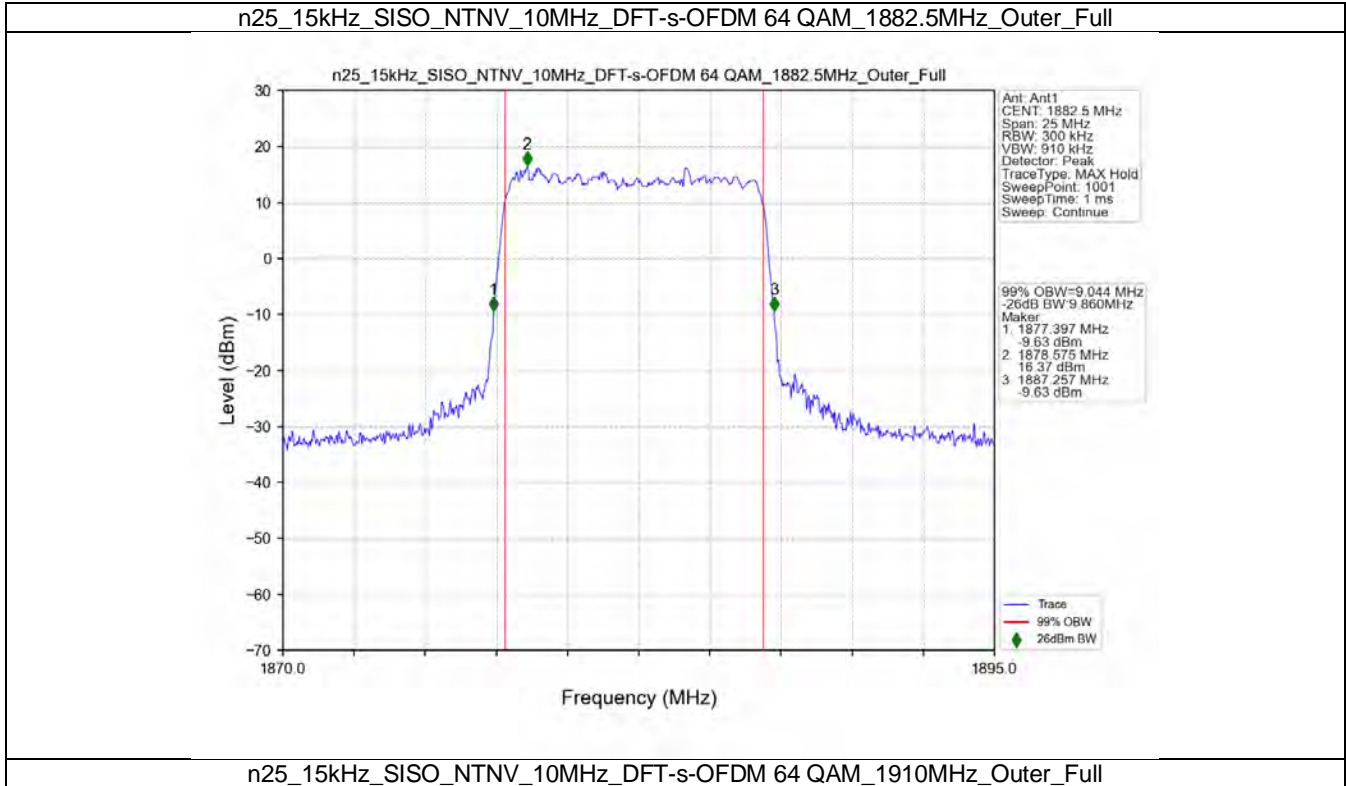


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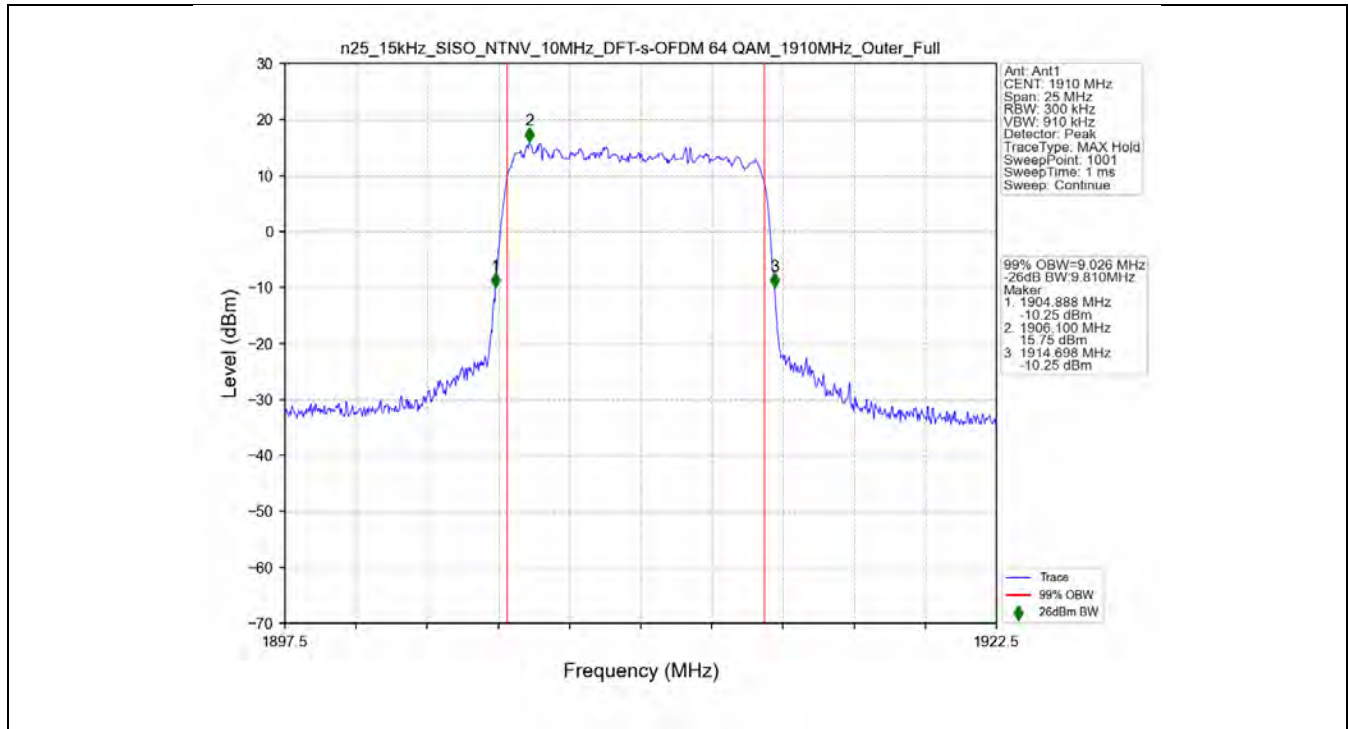


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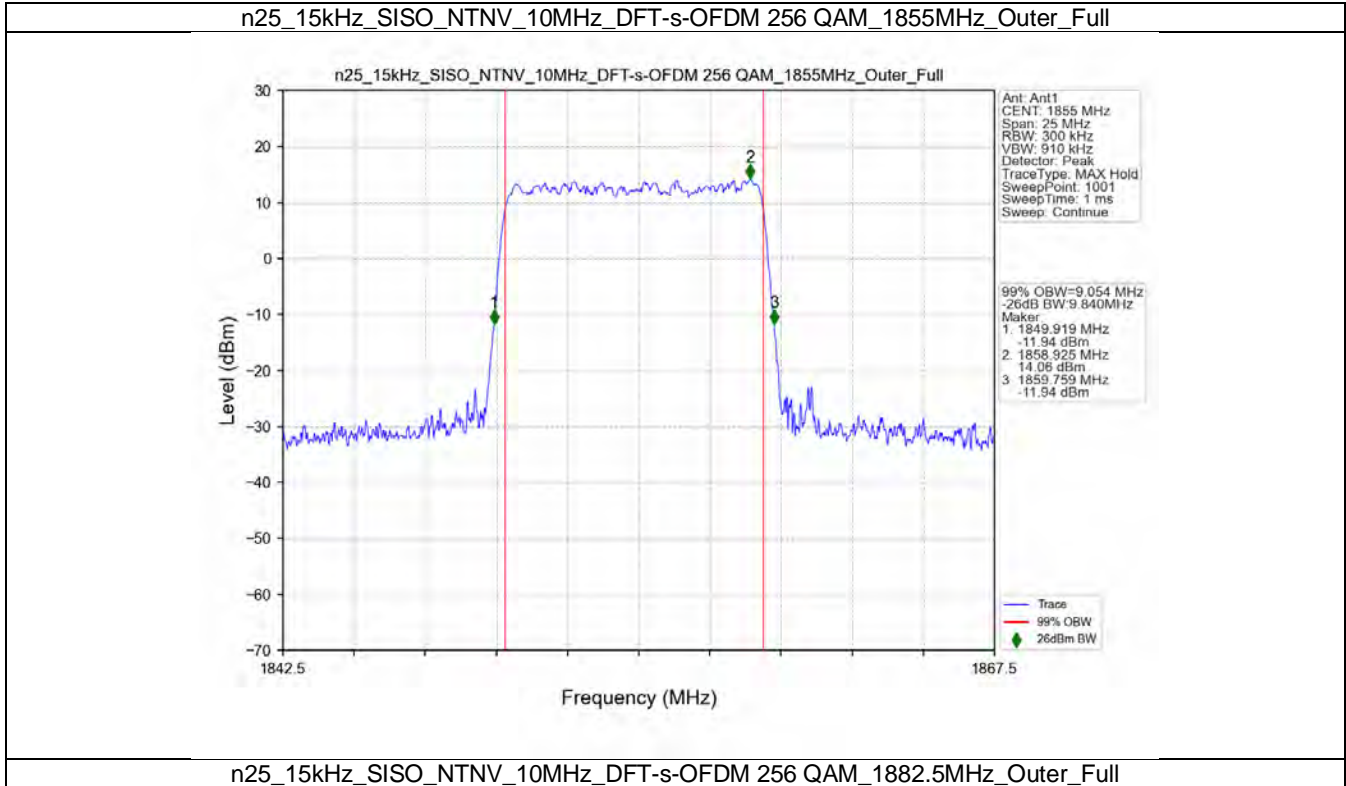


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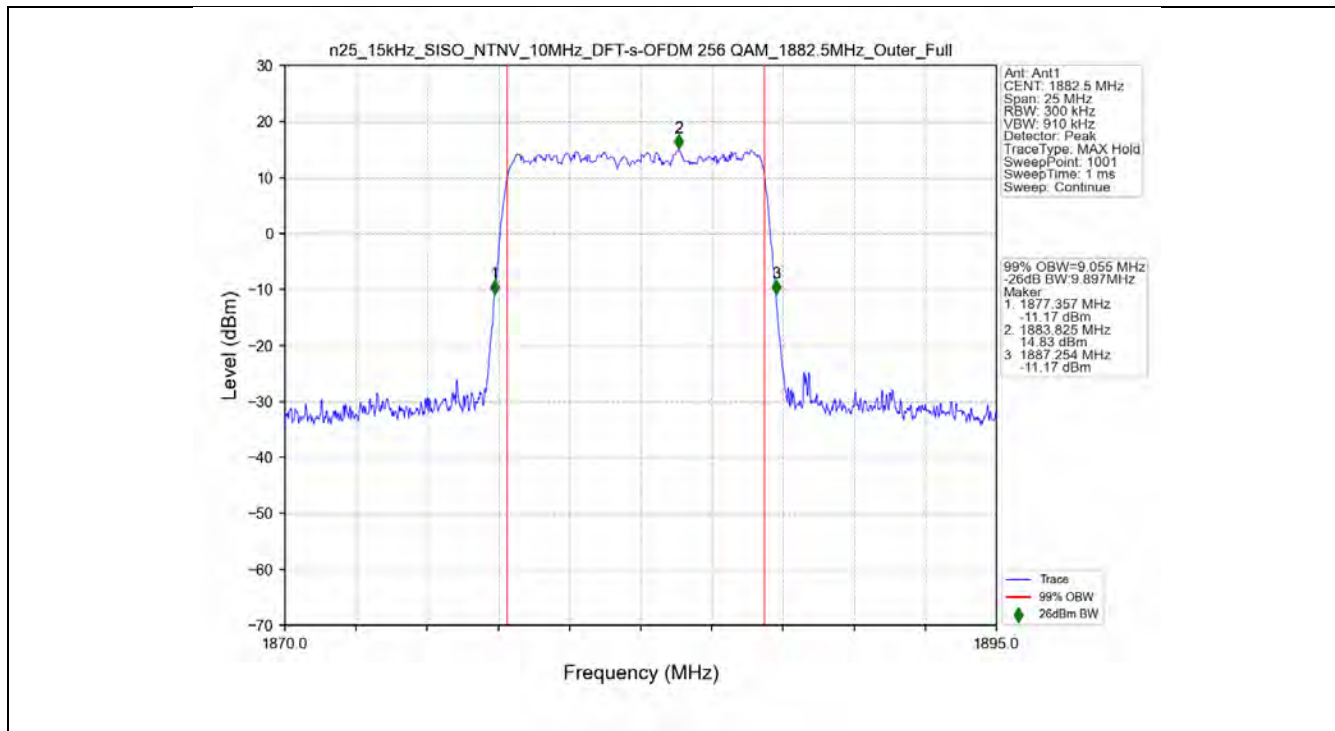
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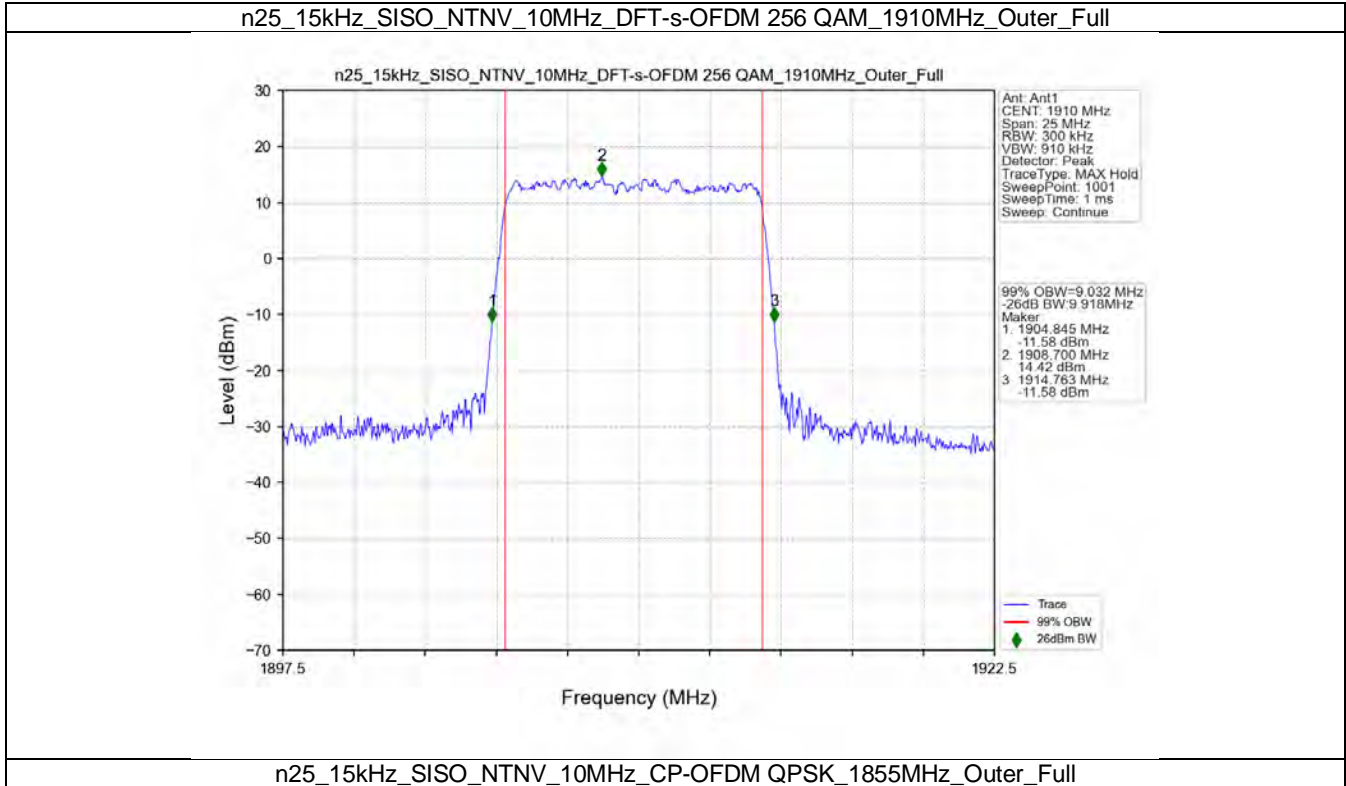


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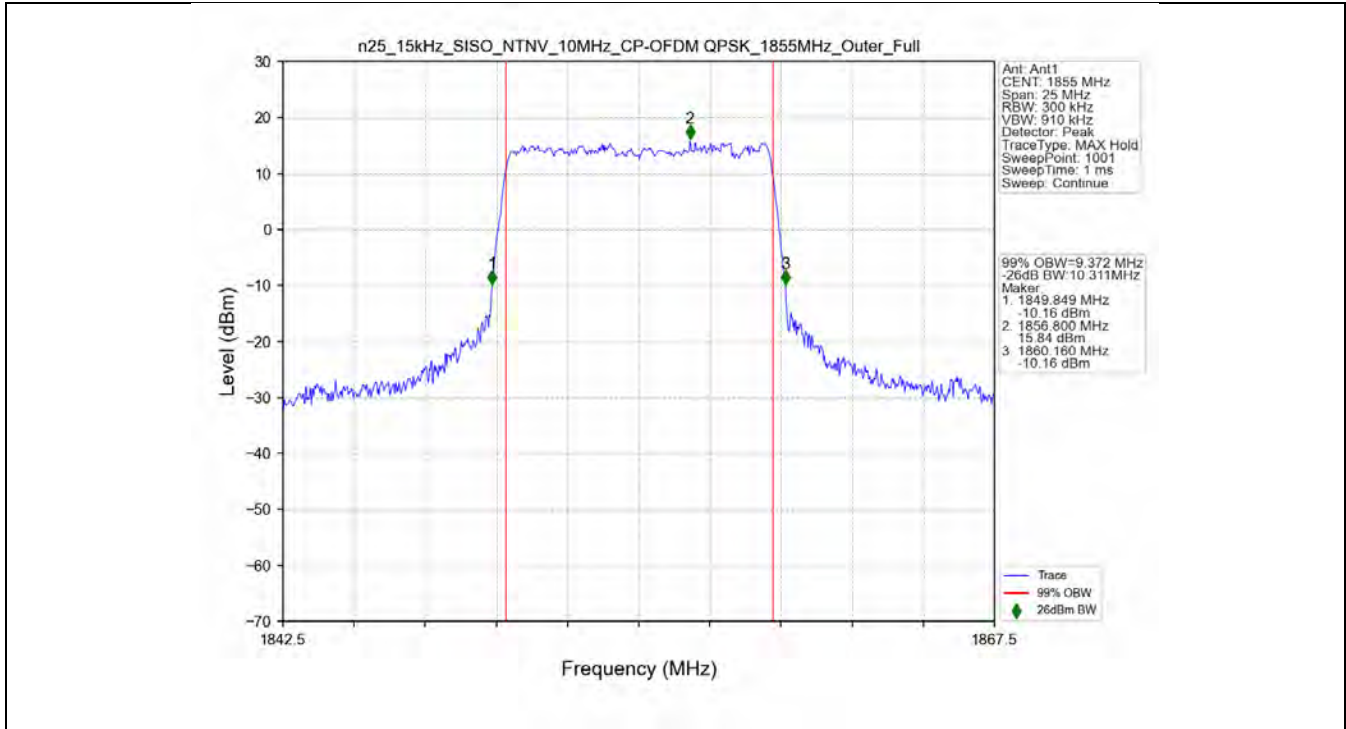


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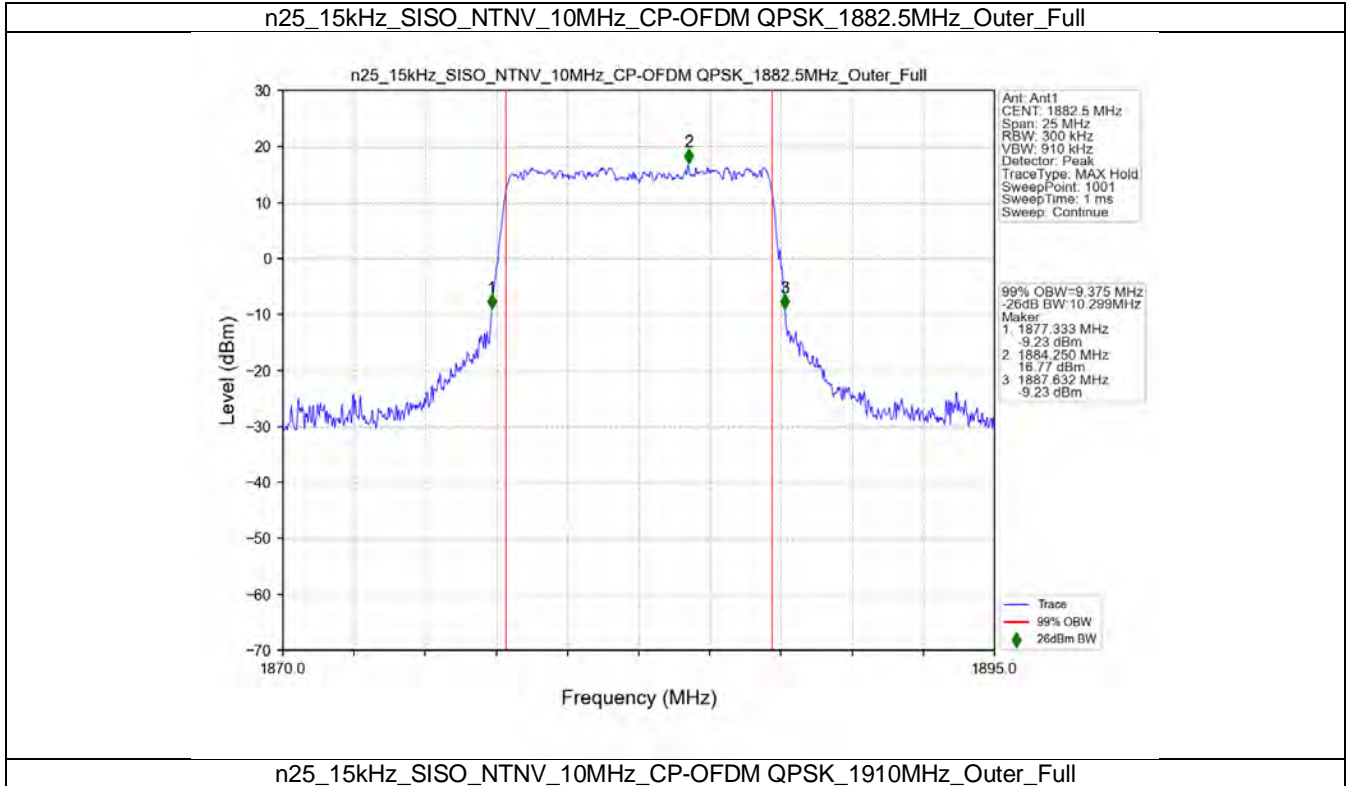


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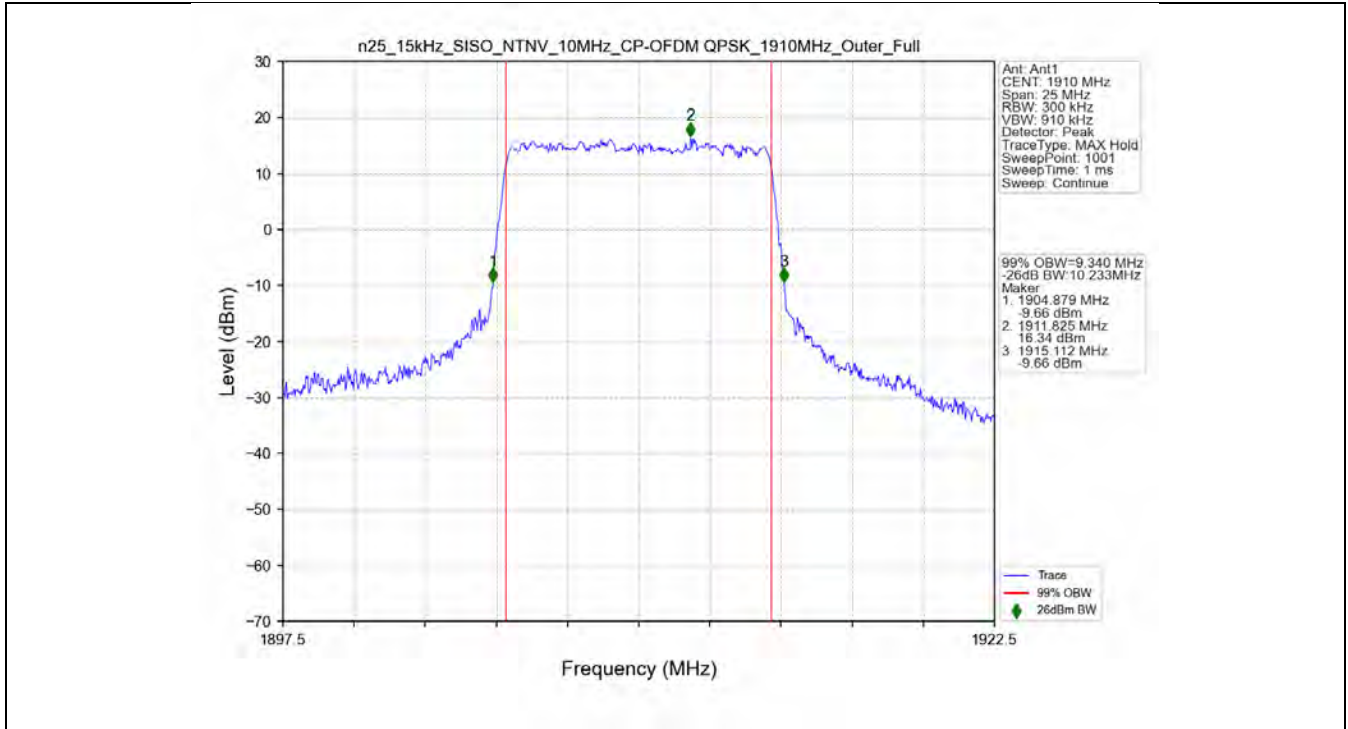


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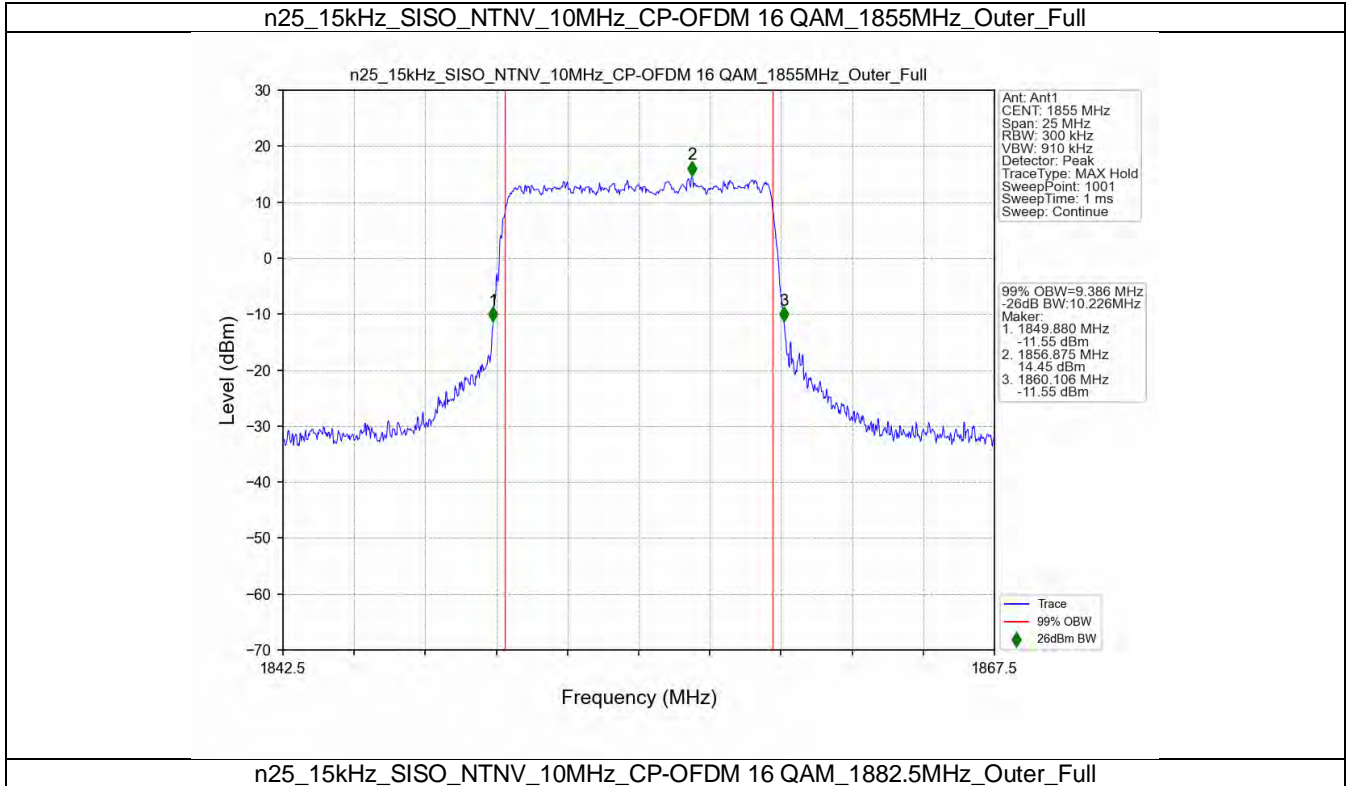


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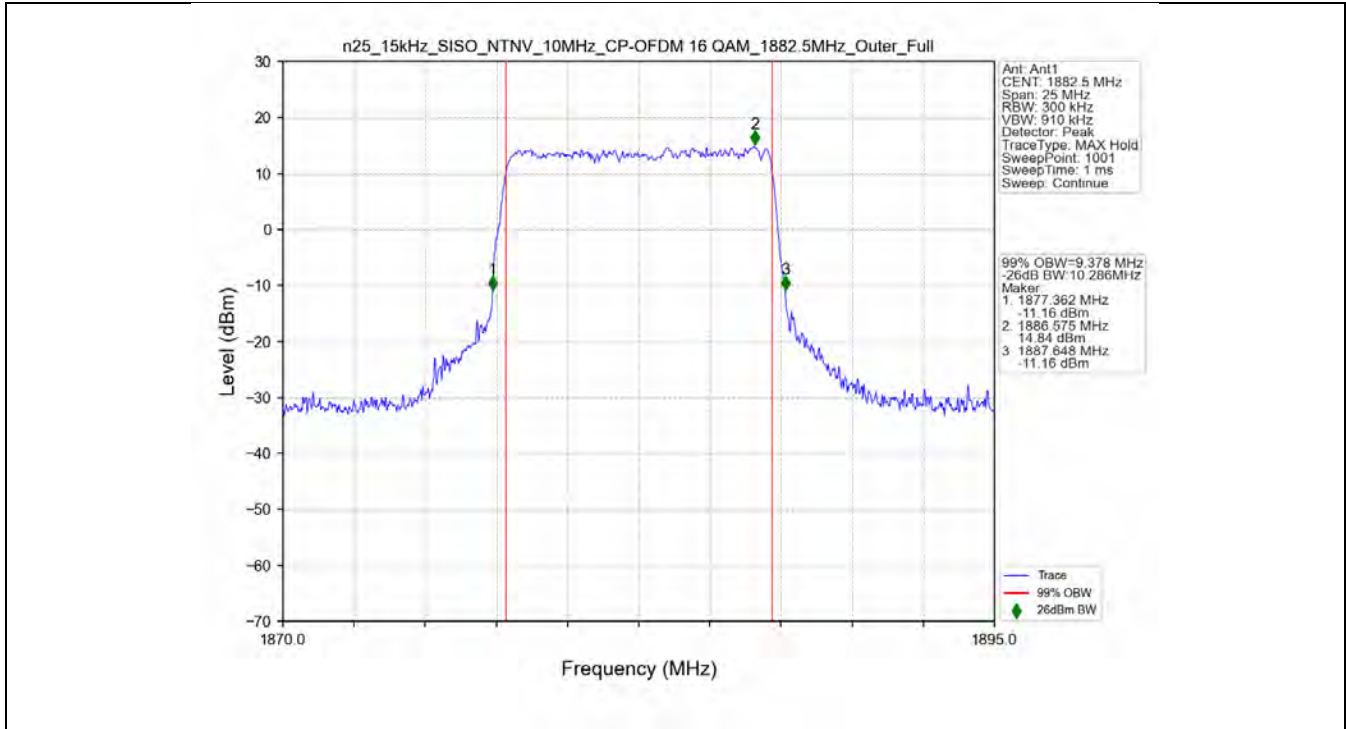
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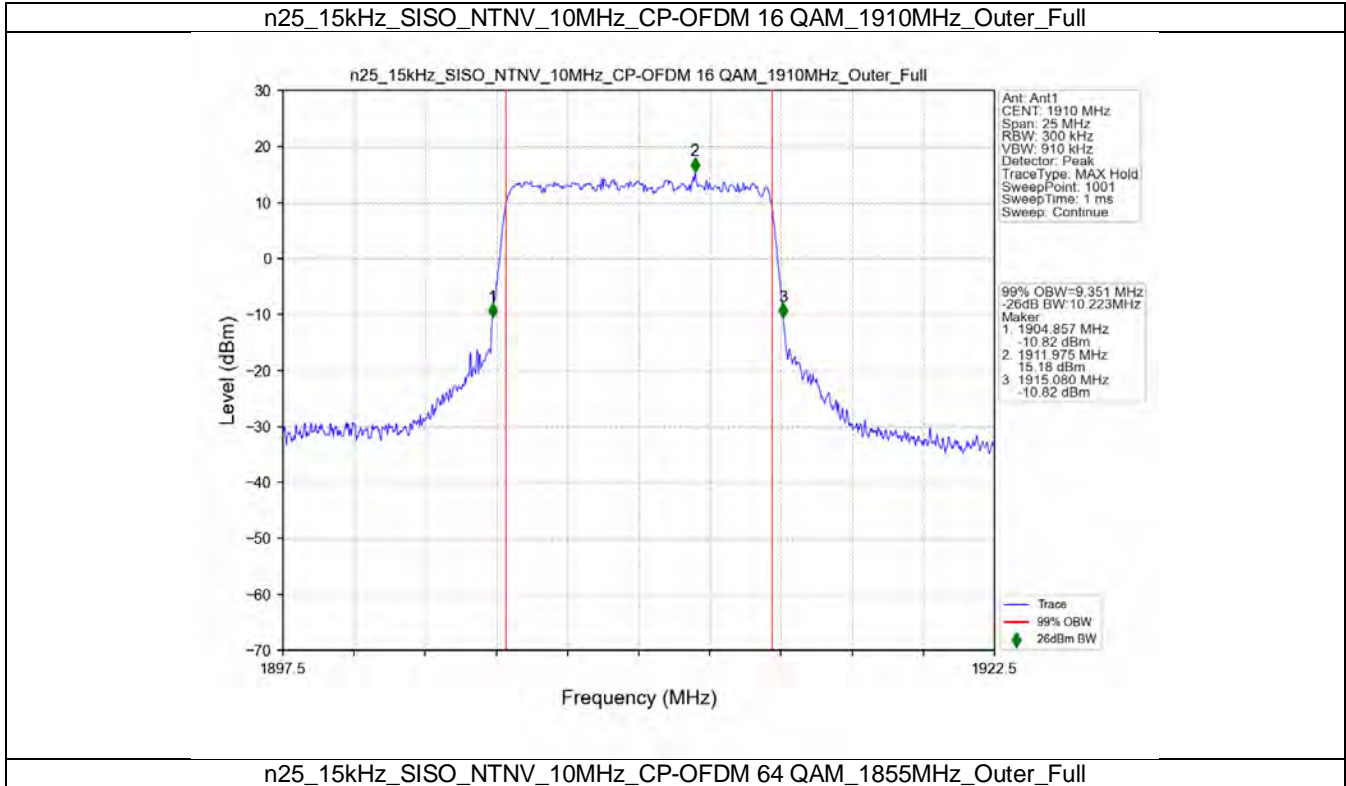


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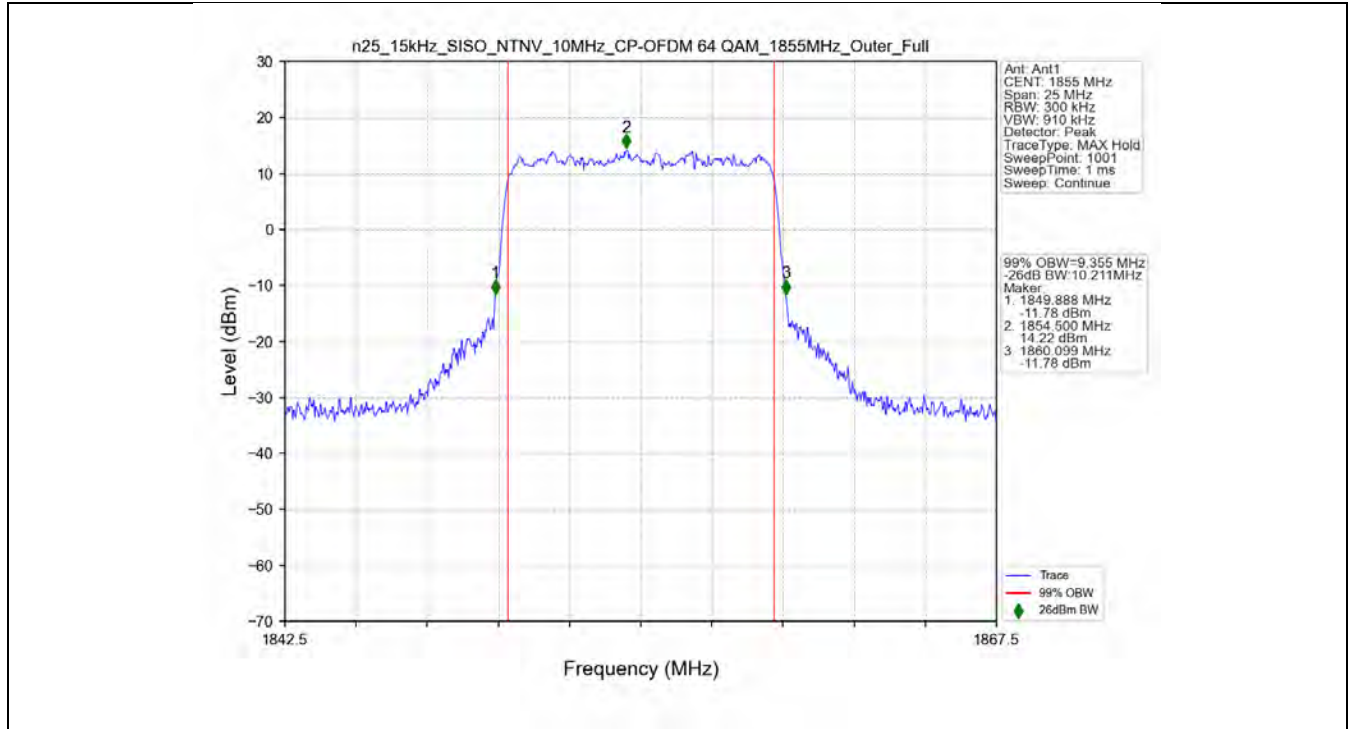


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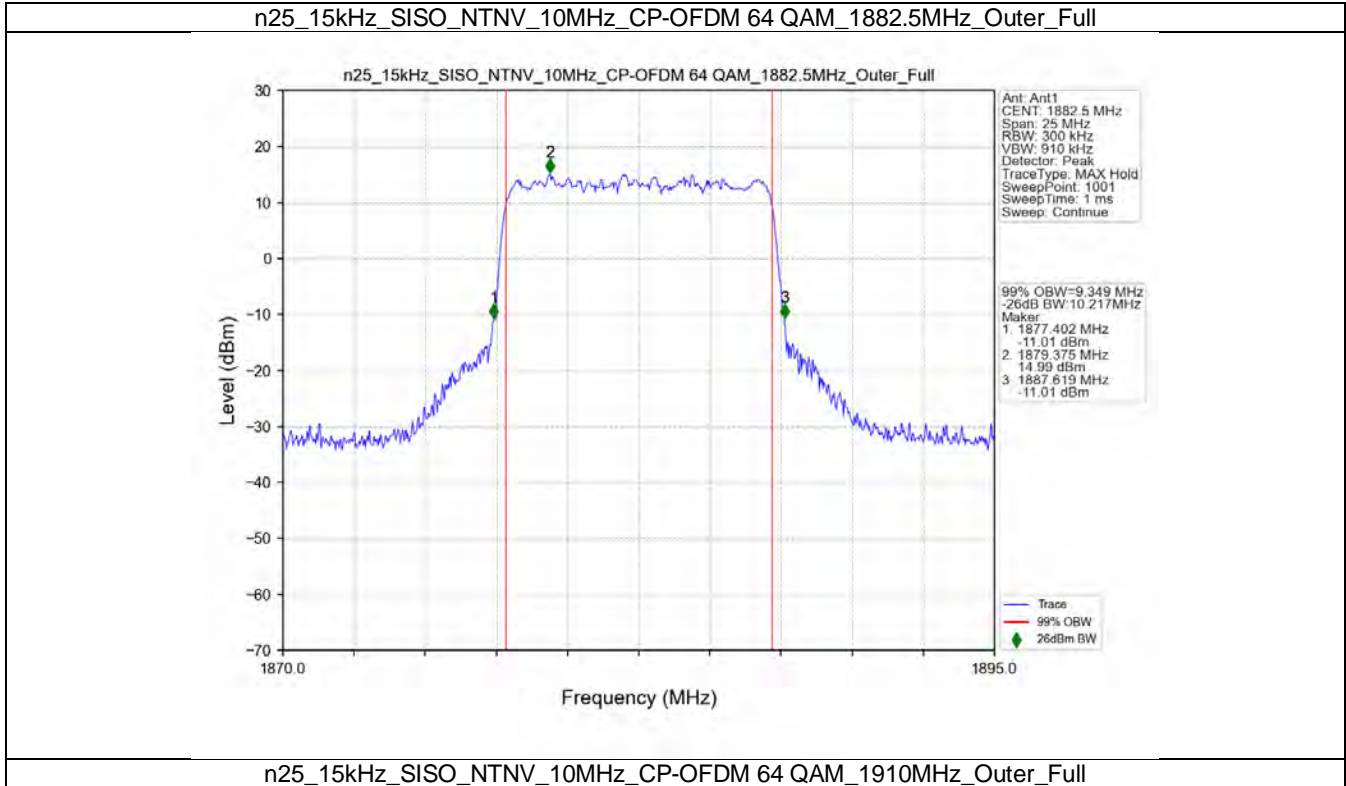


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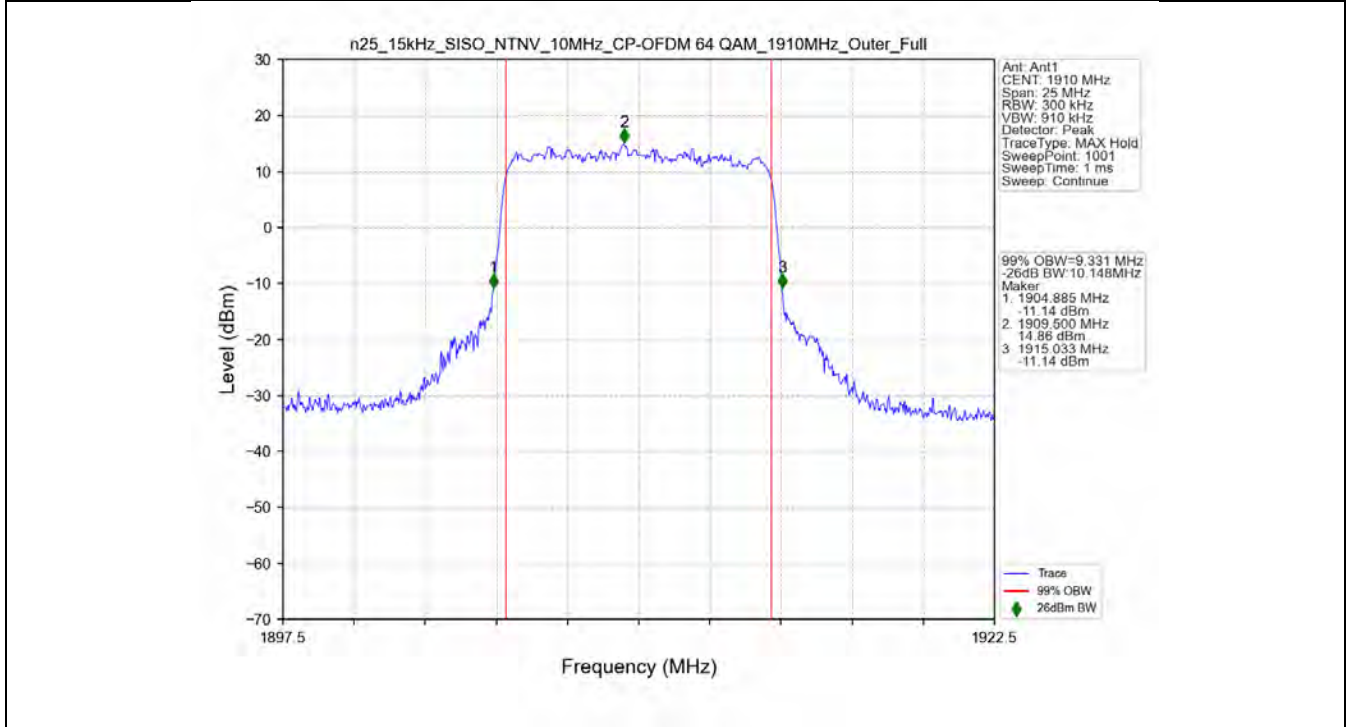
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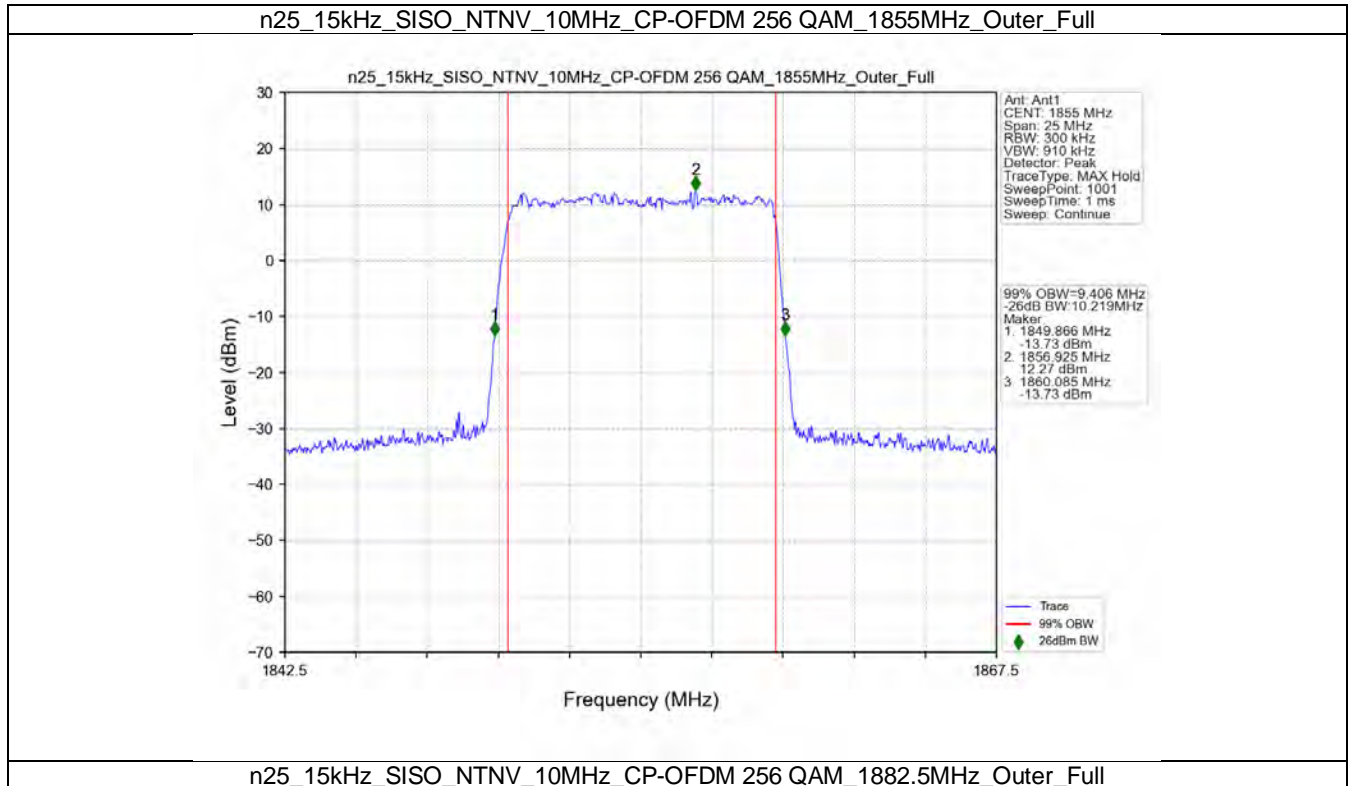


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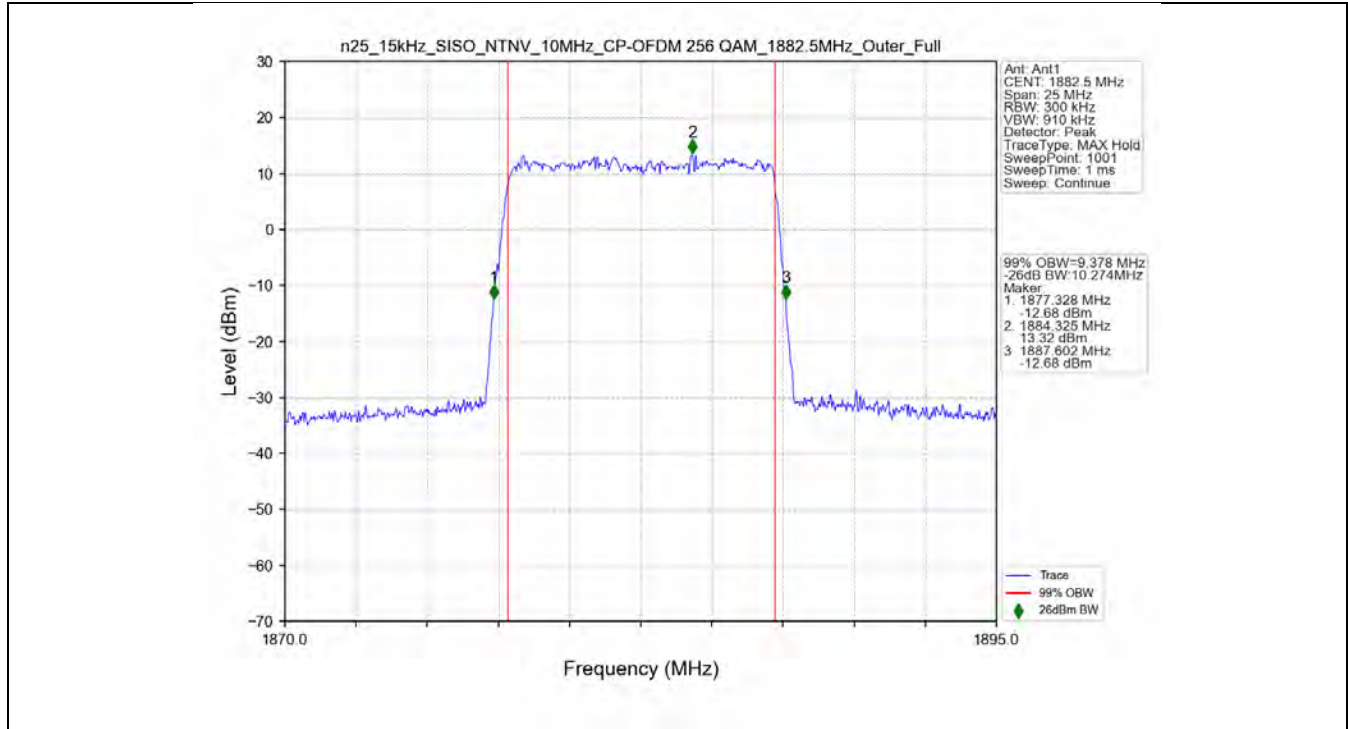


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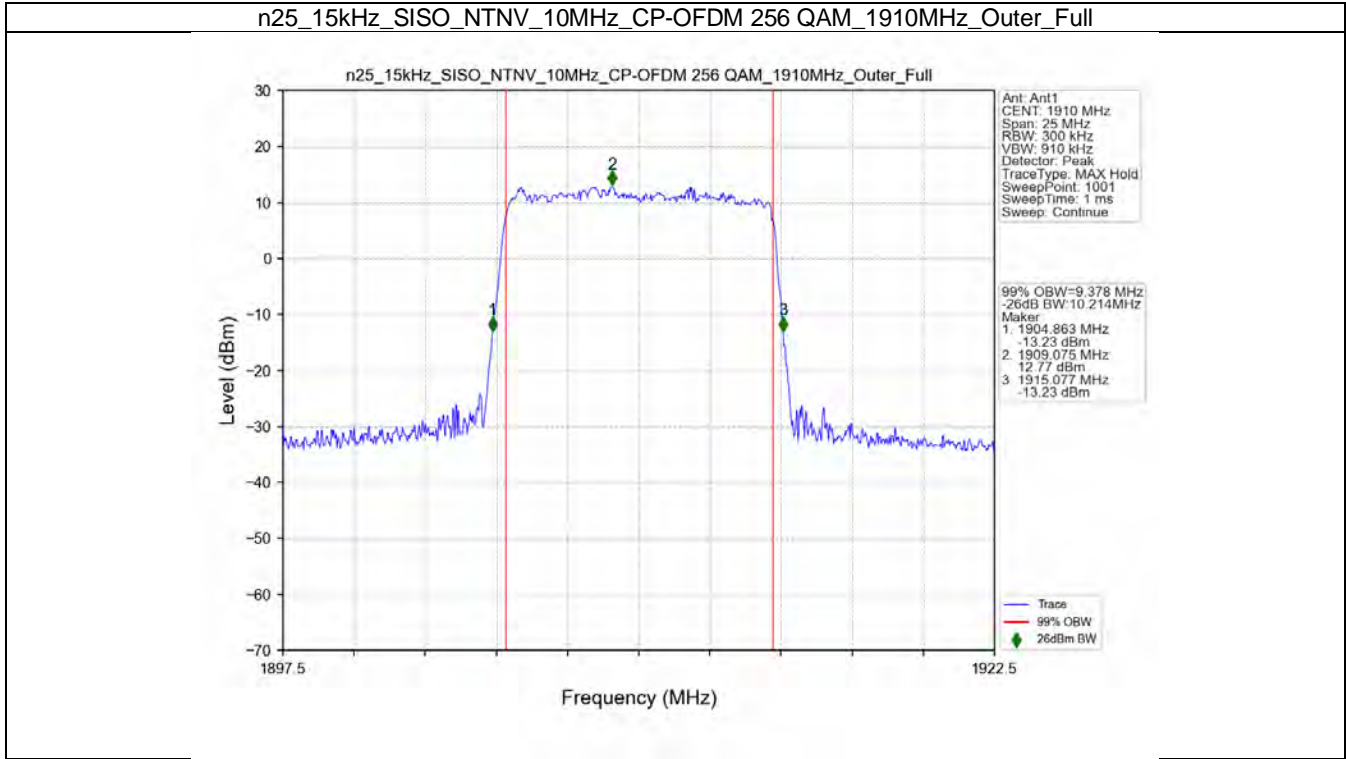


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3.3 15k_SISO_15MHz_NTNV

3.3.1 Test Result

5G NR n25 SCS=15kHz SISO 15MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	1857.5	Outer_Full	13.56	14.71	/	Pass
	1882.5	Outer_Full	13.57	14.63	/	Pass
	1907.5	Outer_Full	13.54	14.56	/	Pass
DFT-s-OFDM QPSK	1857.5	Outer_Full	13.59	14.70	/	Pass
	1882.5	Outer_Full	13.60	14.68	/	Pass
	1907.5	Outer_Full	13.59	14.67	/	Pass
DFT-s-OFDM 16 QAM	1857.5	Outer_Full	13.65	14.67	/	Pass
	1882.5	Outer_Full	13.61	14.67	/	Pass
	1907.5	Outer_Full	13.62	14.72	/	Pass
DFT-s-OFDM 64 QAM	1857.5	Outer_Full	13.57	14.63	/	Pass
	1882.5	Outer_Full	13.54	14.67	/	Pass
	1907.5	Outer_Full	13.52	14.62	/	Pass
DFT-s-OFDM 256 QAM	1857.5	Outer_Full	13.60	14.68	/	Pass
	1882.5	Outer_Full	13.58	14.67	/	Pass
	1907.5	Outer_Full	13.58	14.61	/	Pass
CP-OFDM QPSK	1857.5	Outer_Full	14.24	15.32	/	Pass
	1882.5	Outer_Full	14.22	15.34	/	Pass
	1907.5	Outer_Full	14.21	15.30	/	Pass
CP-OFDM 16 QAM	1857.5	Outer_Full	14.26	15.35	/	Pass
	1882.5	Outer_Full	14.26	15.37	/	Pass
	1907.5	Outer_Full	14.23	15.33	/	Pass
CP-OFDM 64 QAM	1857.5	Outer_Full	14.31	15.41	/	Pass
	1882.5	Outer_Full	14.30	15.43	/	Pass
	1907.5	Outer_Full	14.27	15.37	/	Pass
CP-OFDM 256 QAM	1857.5	Outer_Full	14.23	15.39	/	Pass
	1882.5	Outer_Full	14.24	15.45	/	Pass
	1907.5	Outer_Full	14.19	15.41	/	Pass



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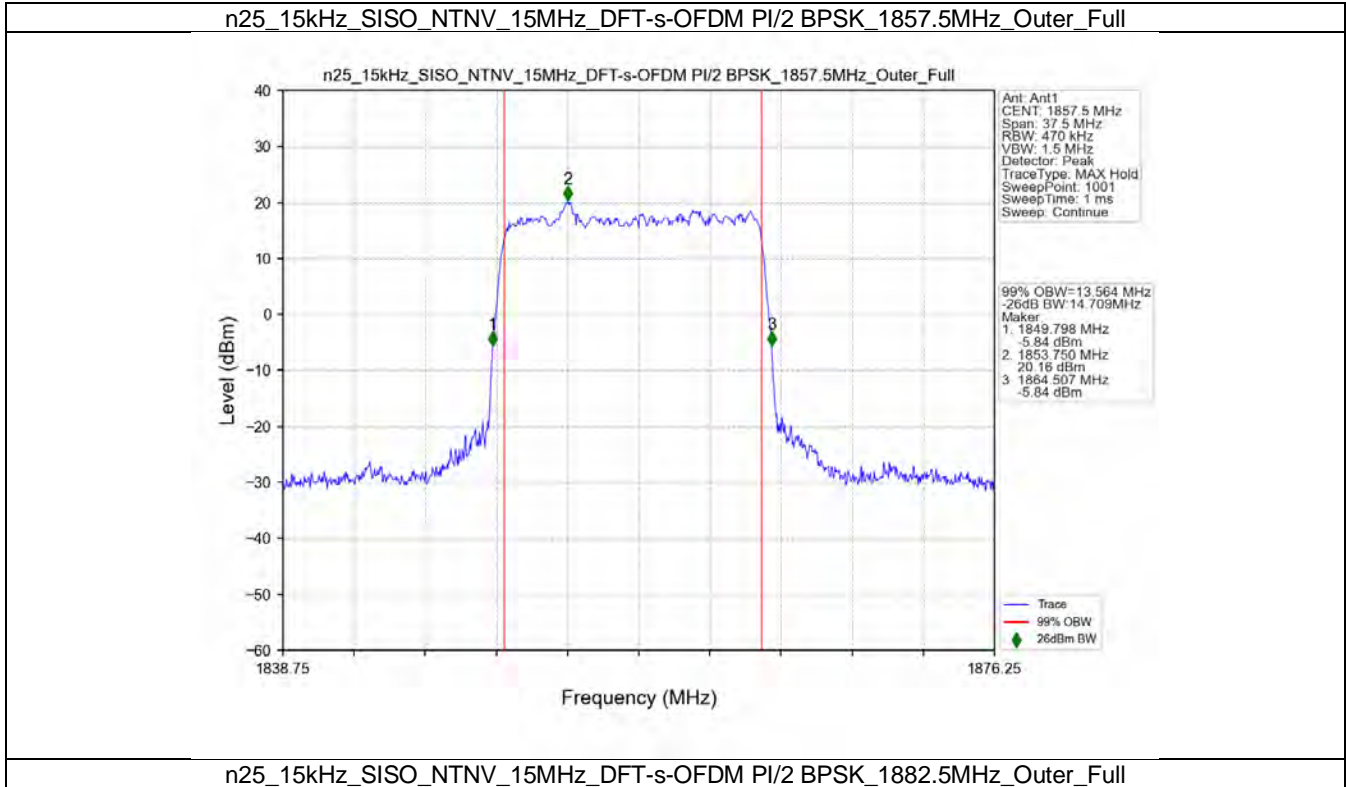
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3.3.2 Test Graph



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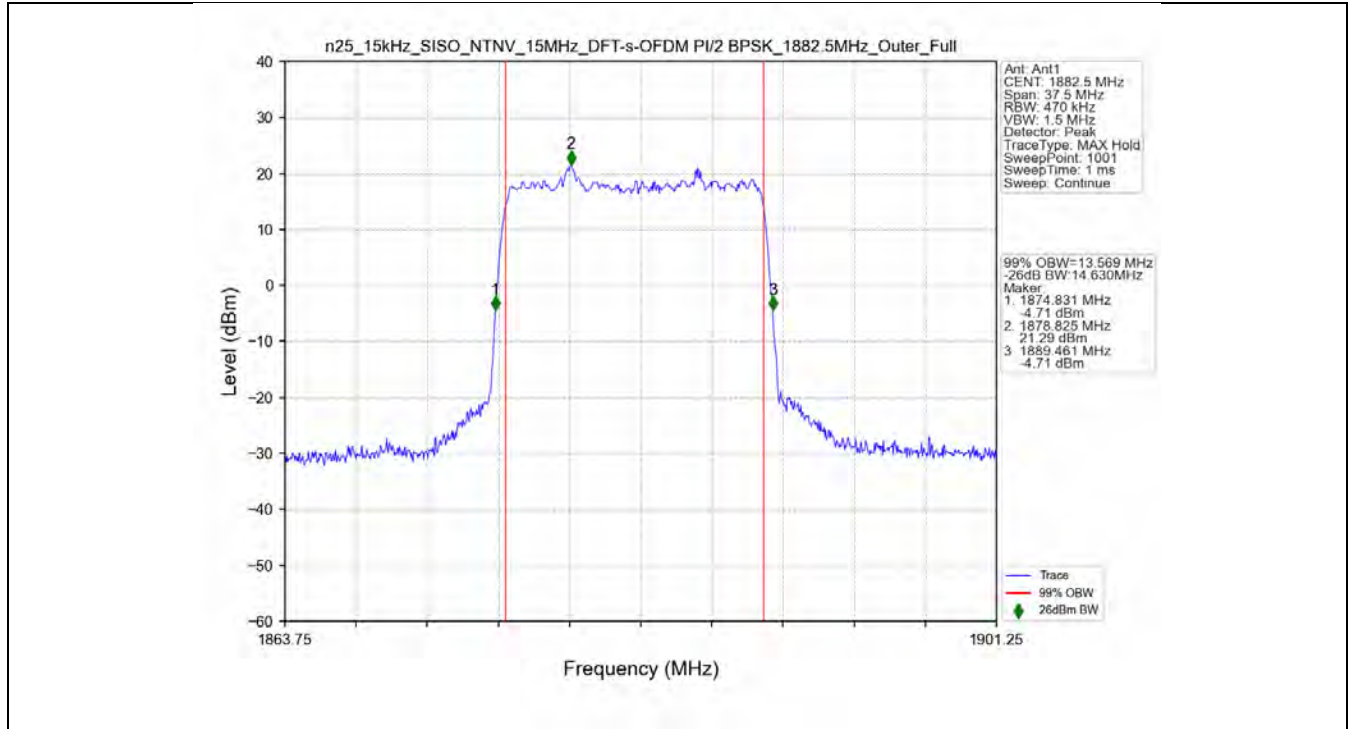


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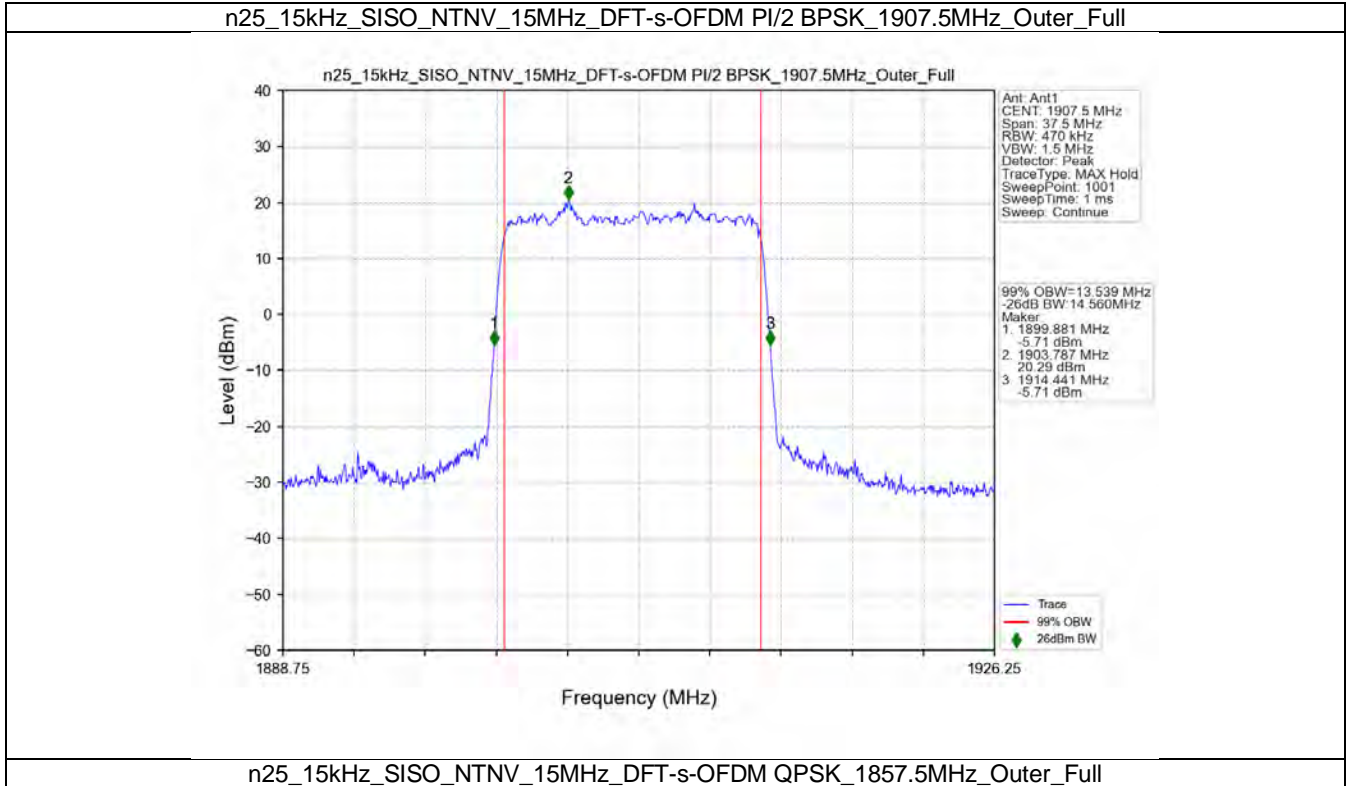


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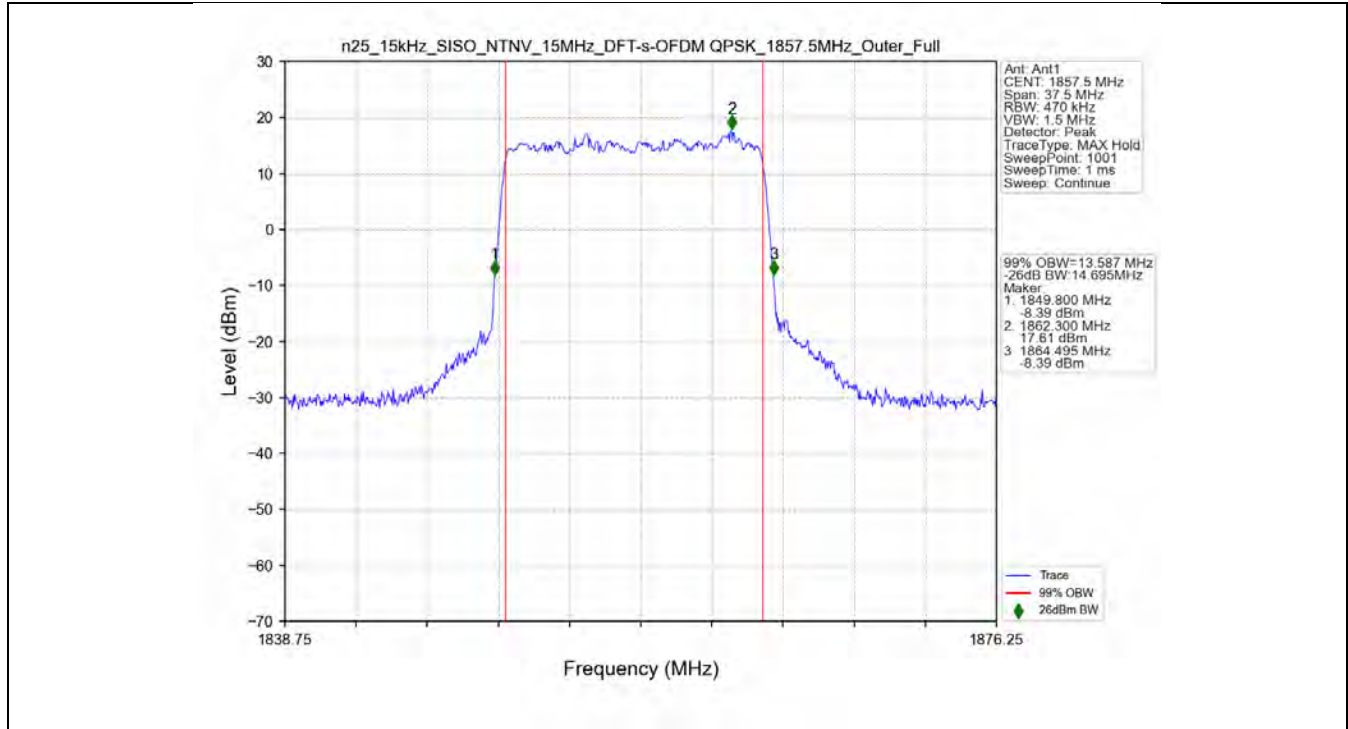


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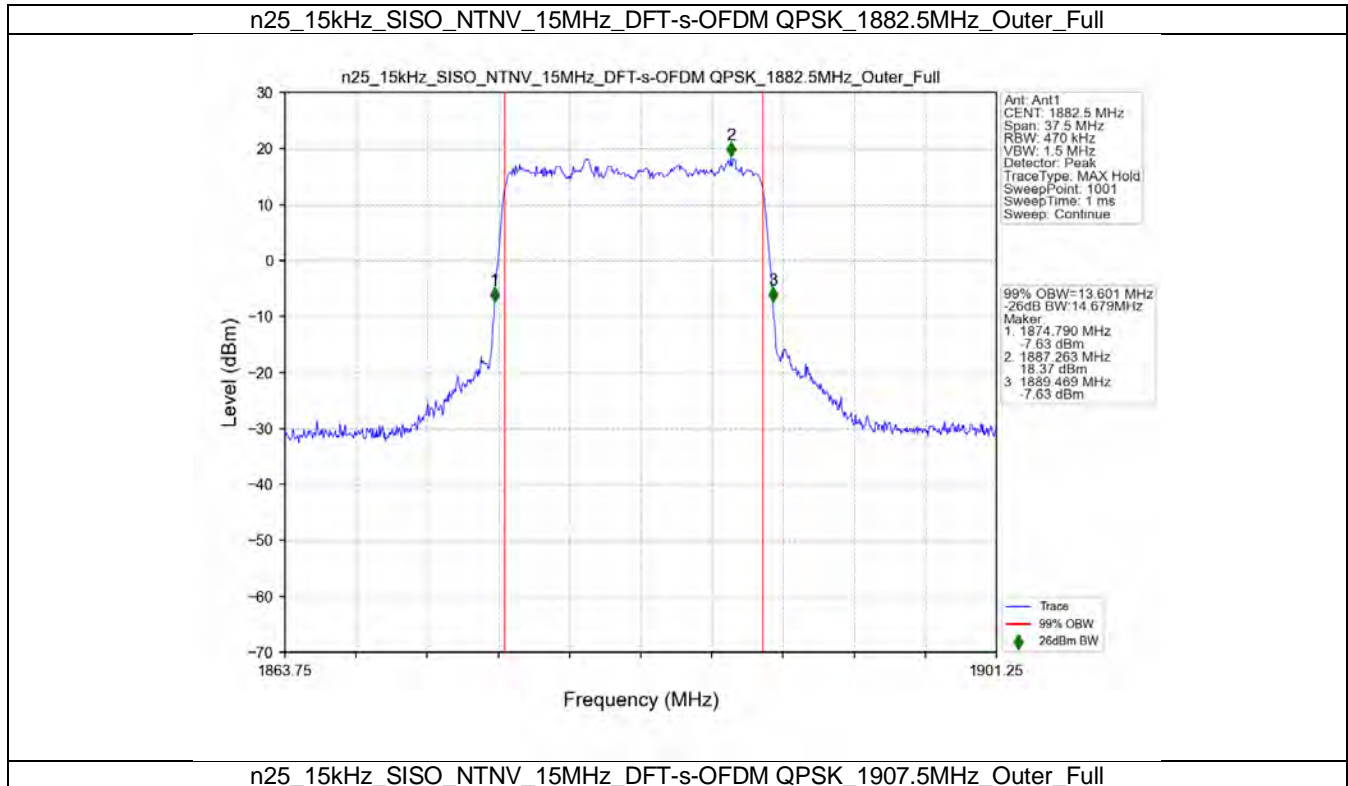


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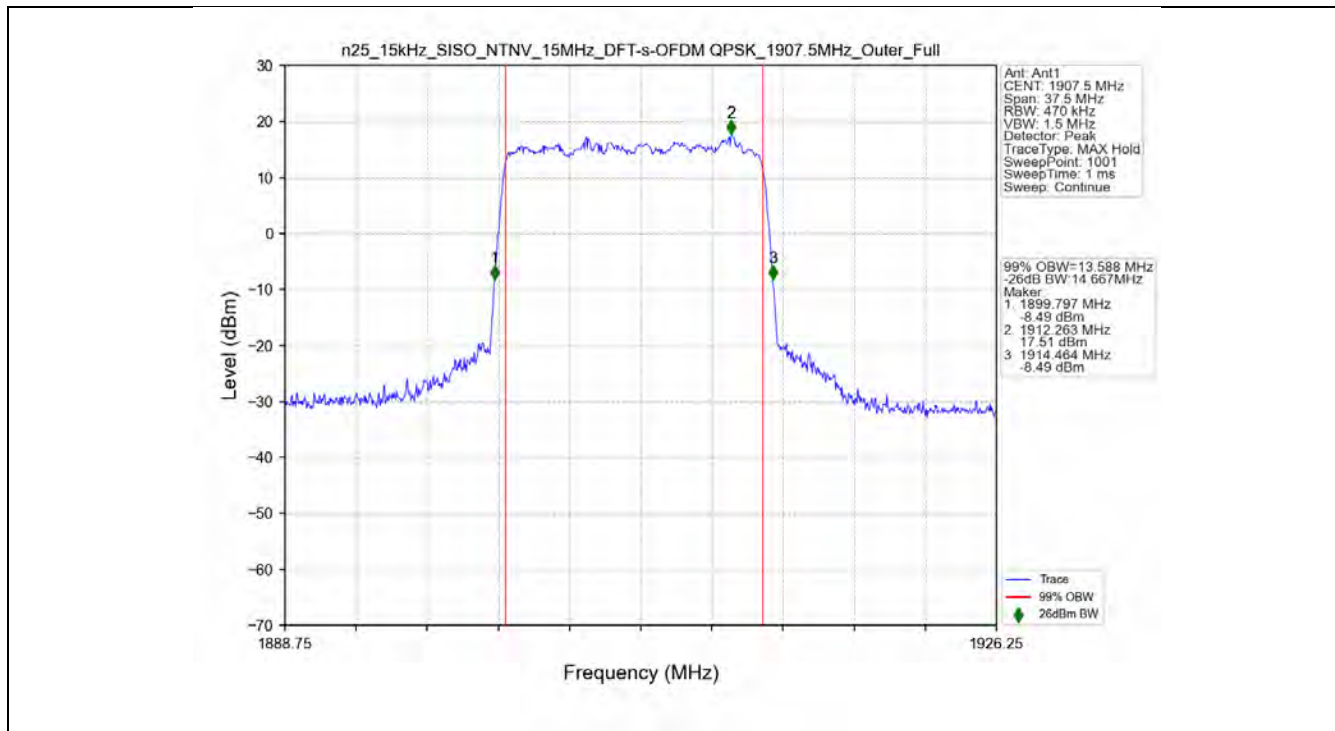
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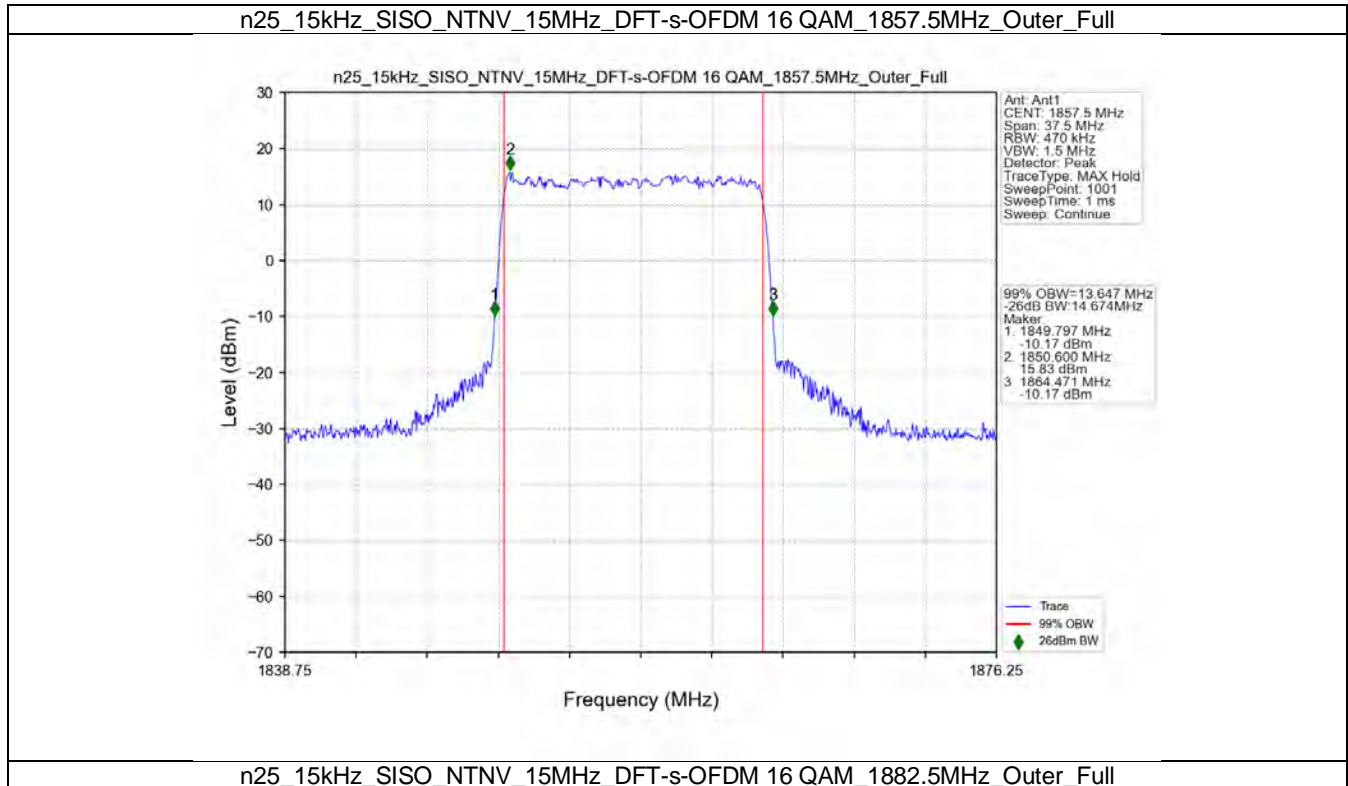


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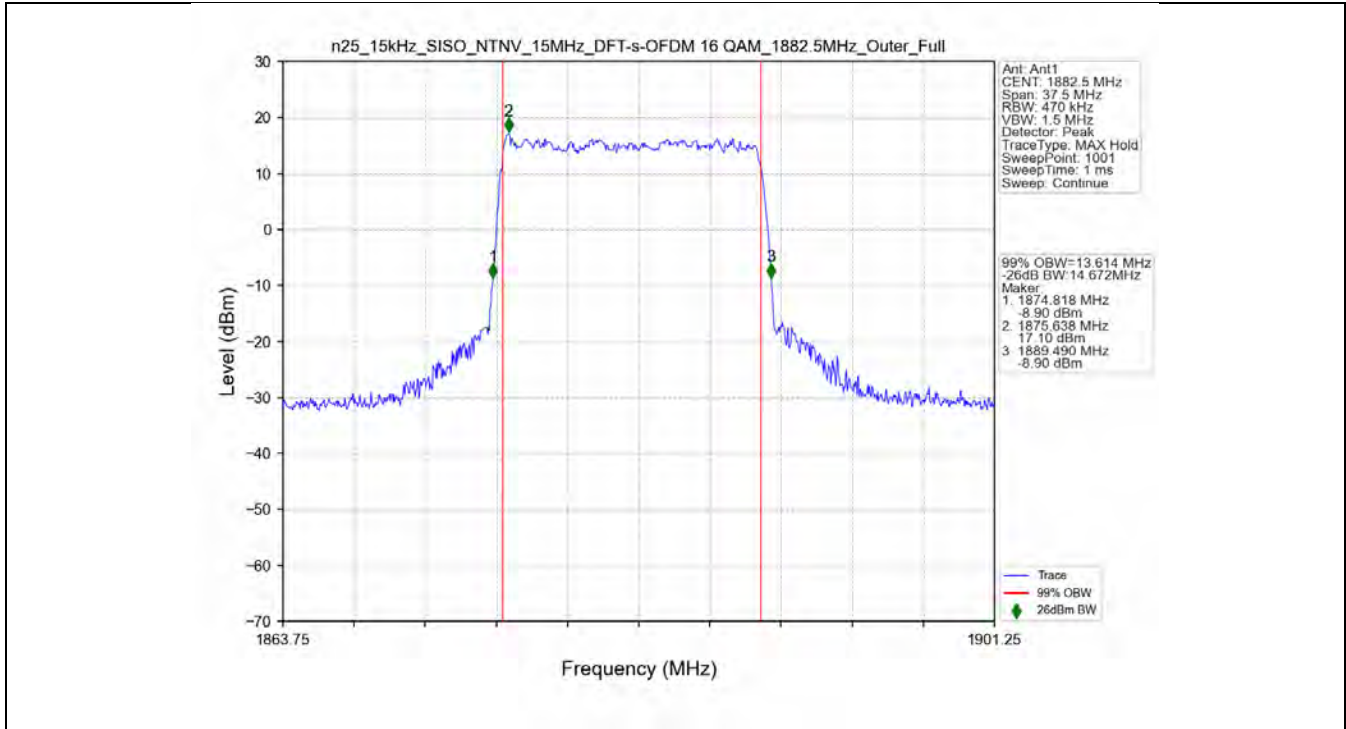


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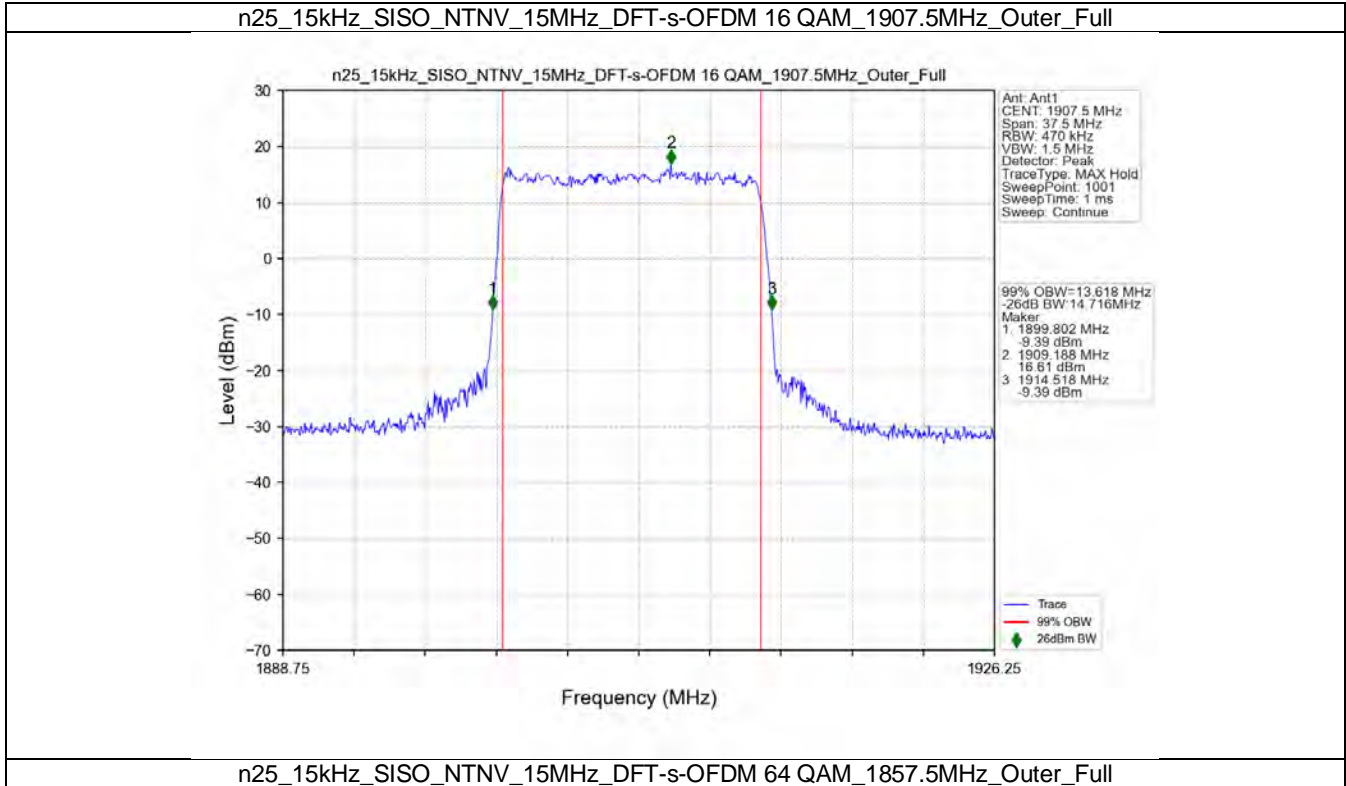


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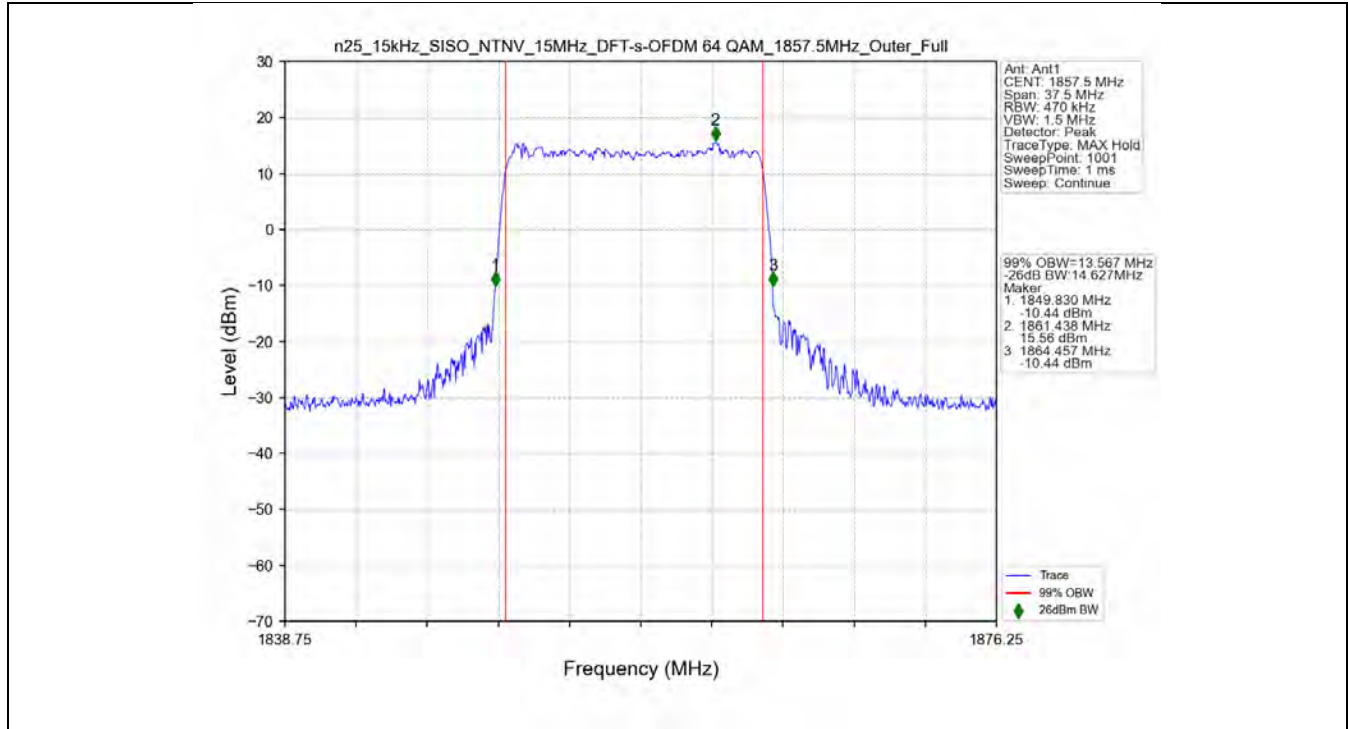


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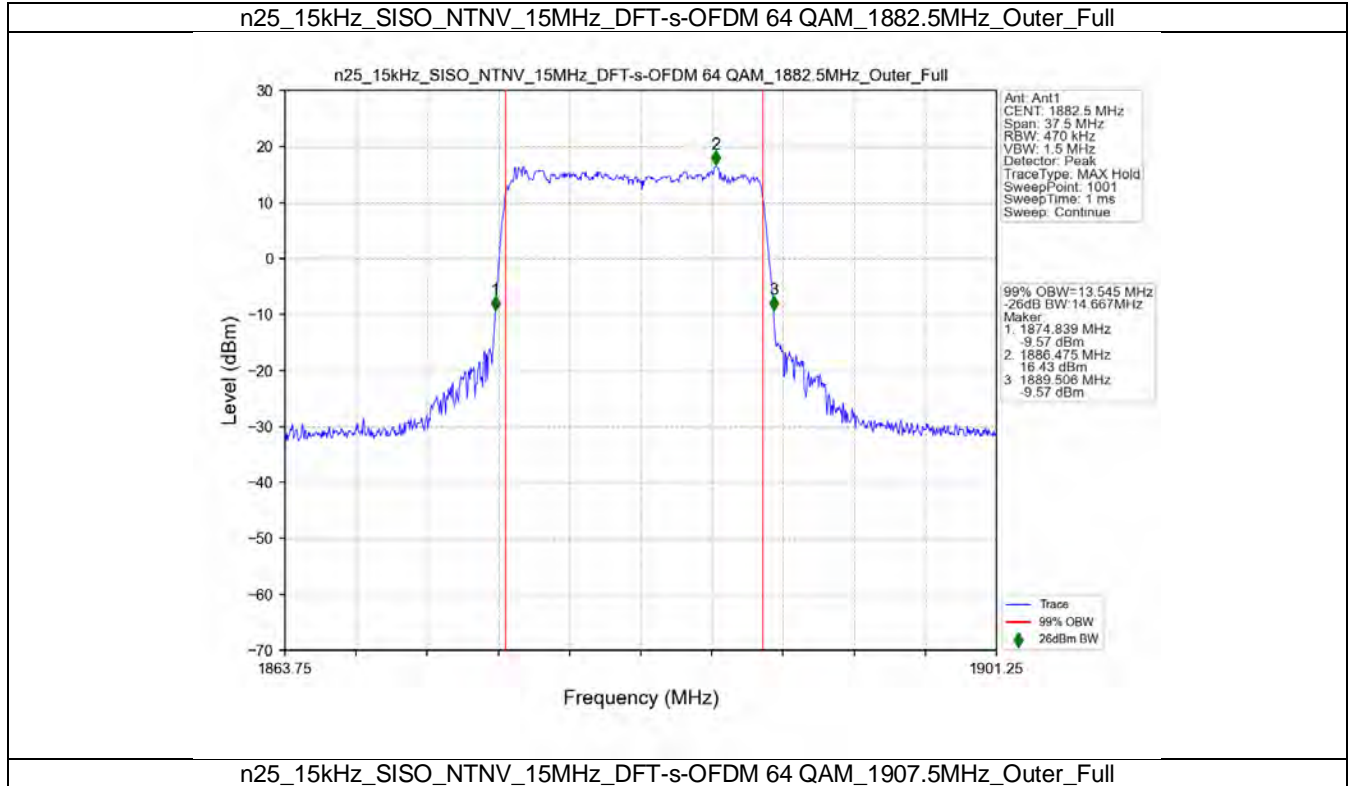


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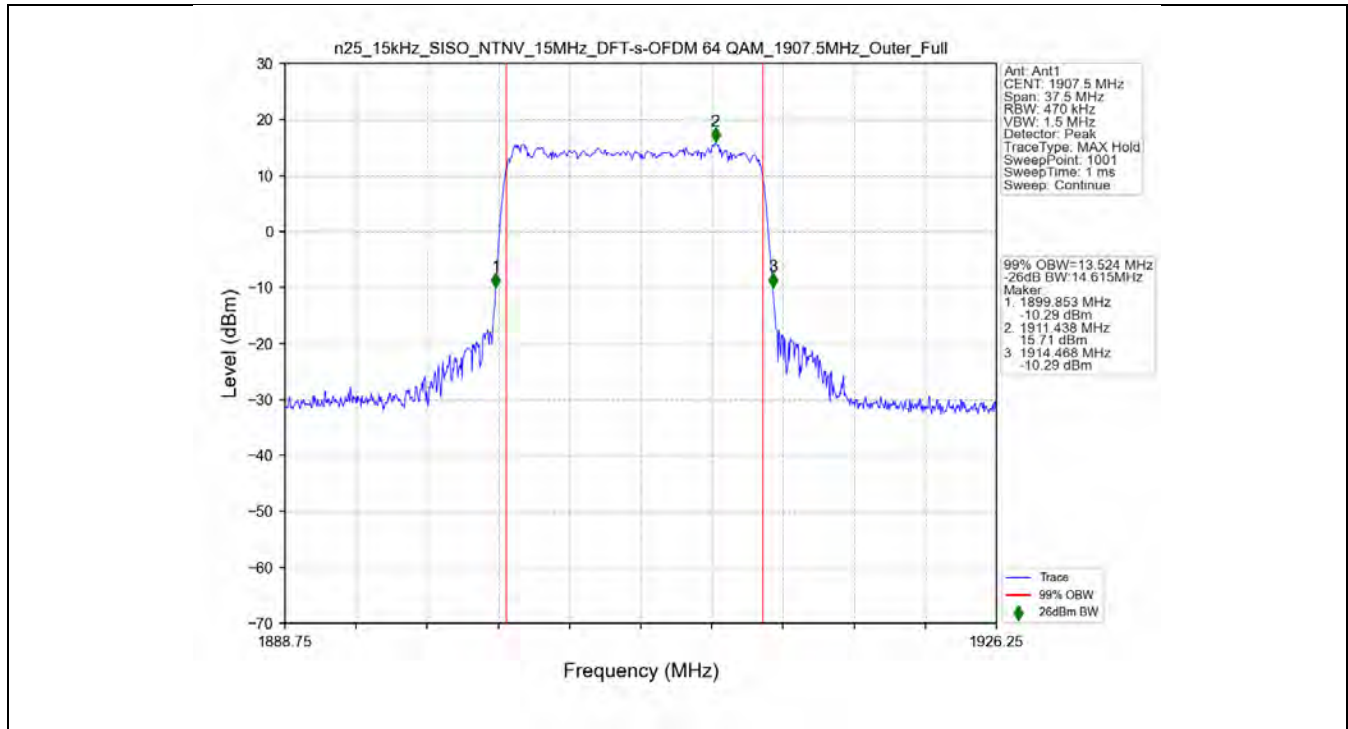


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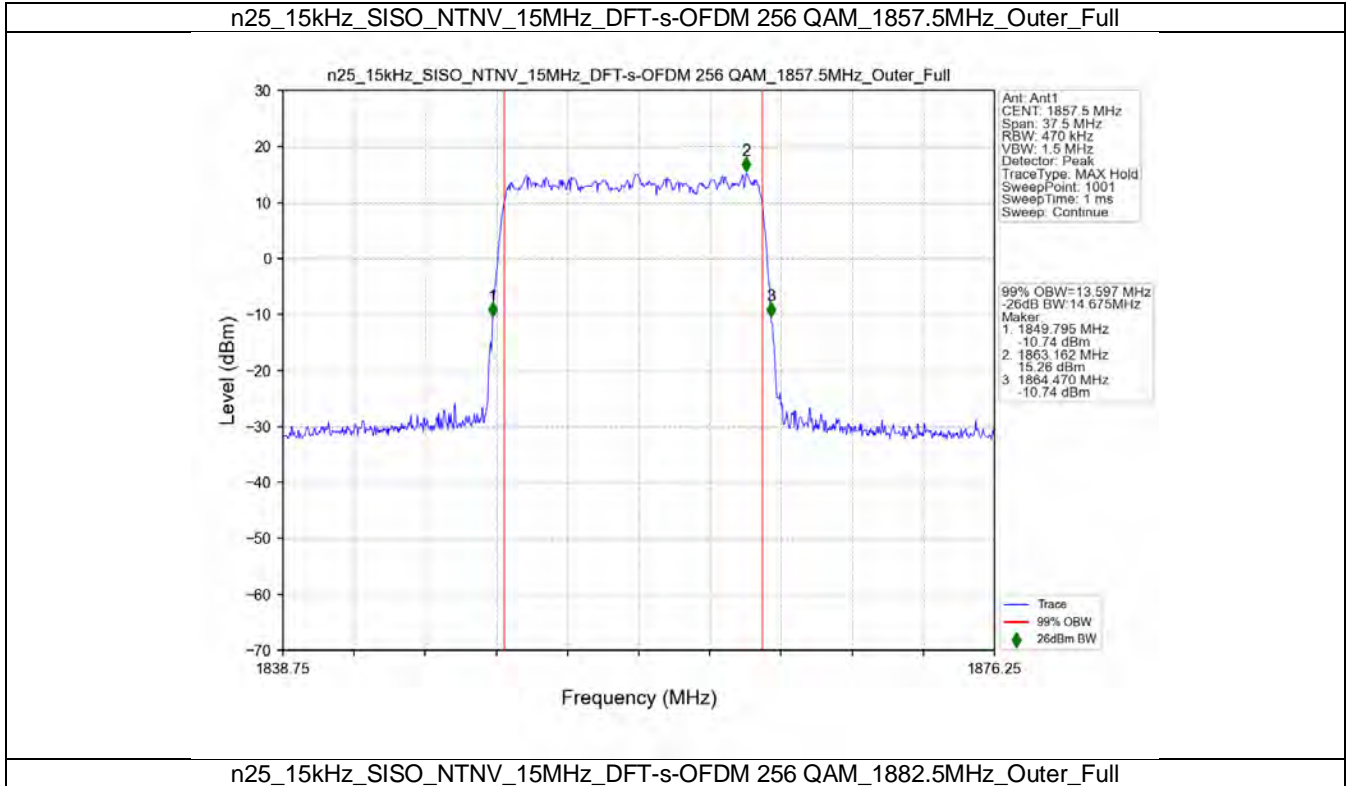


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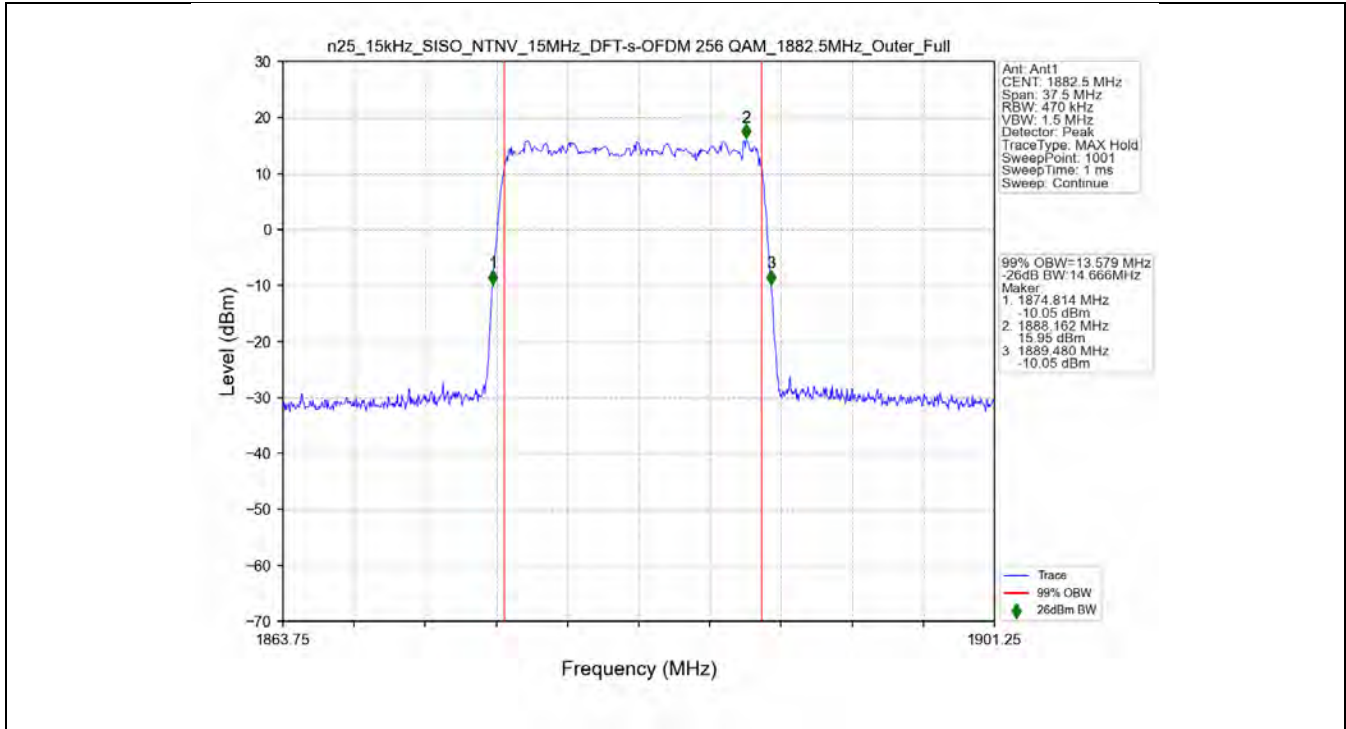


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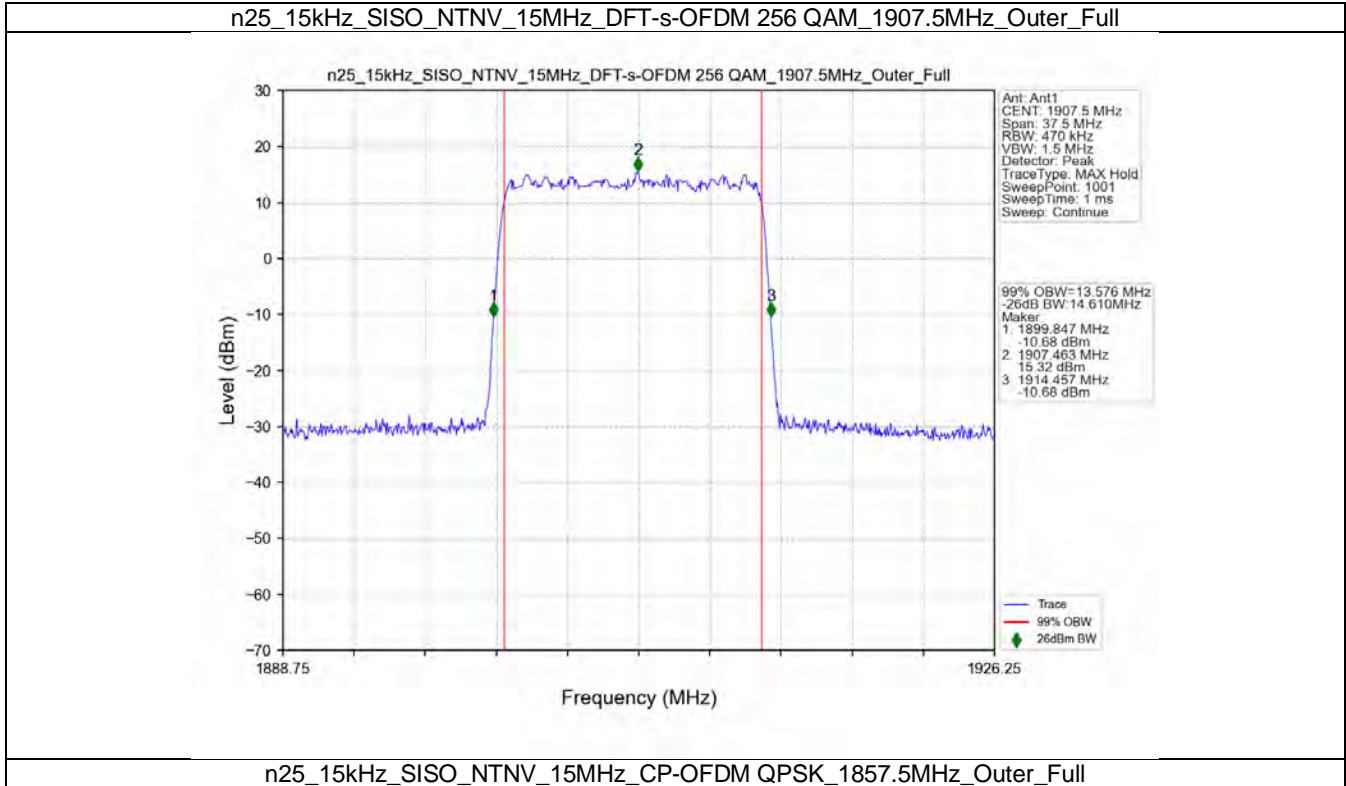


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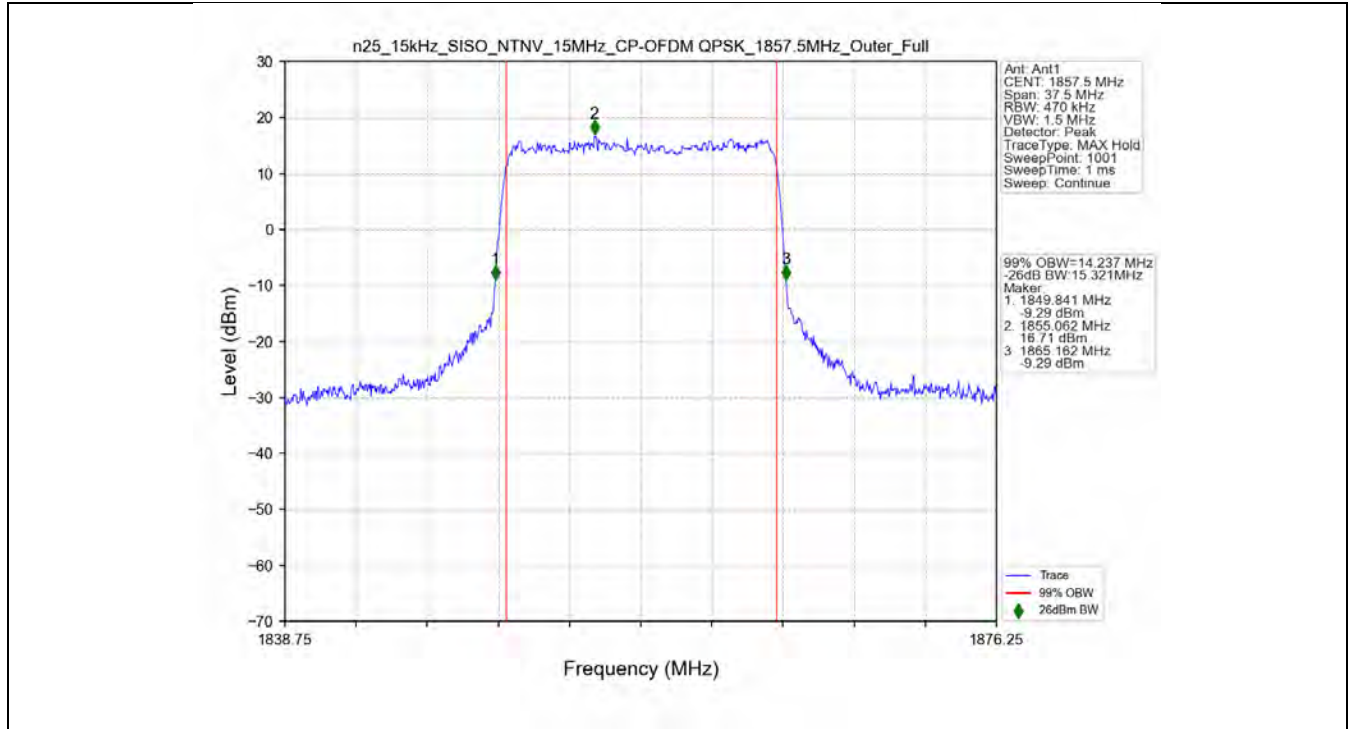


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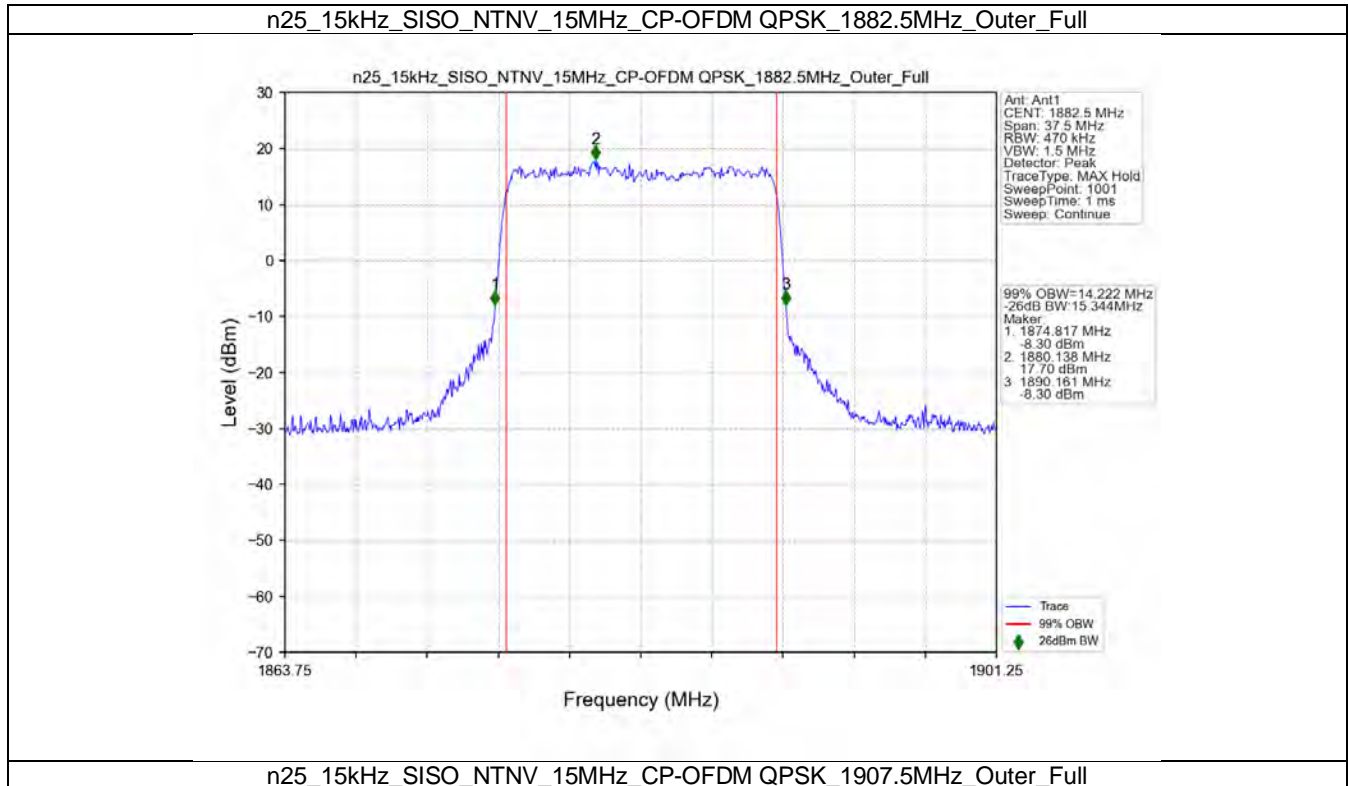


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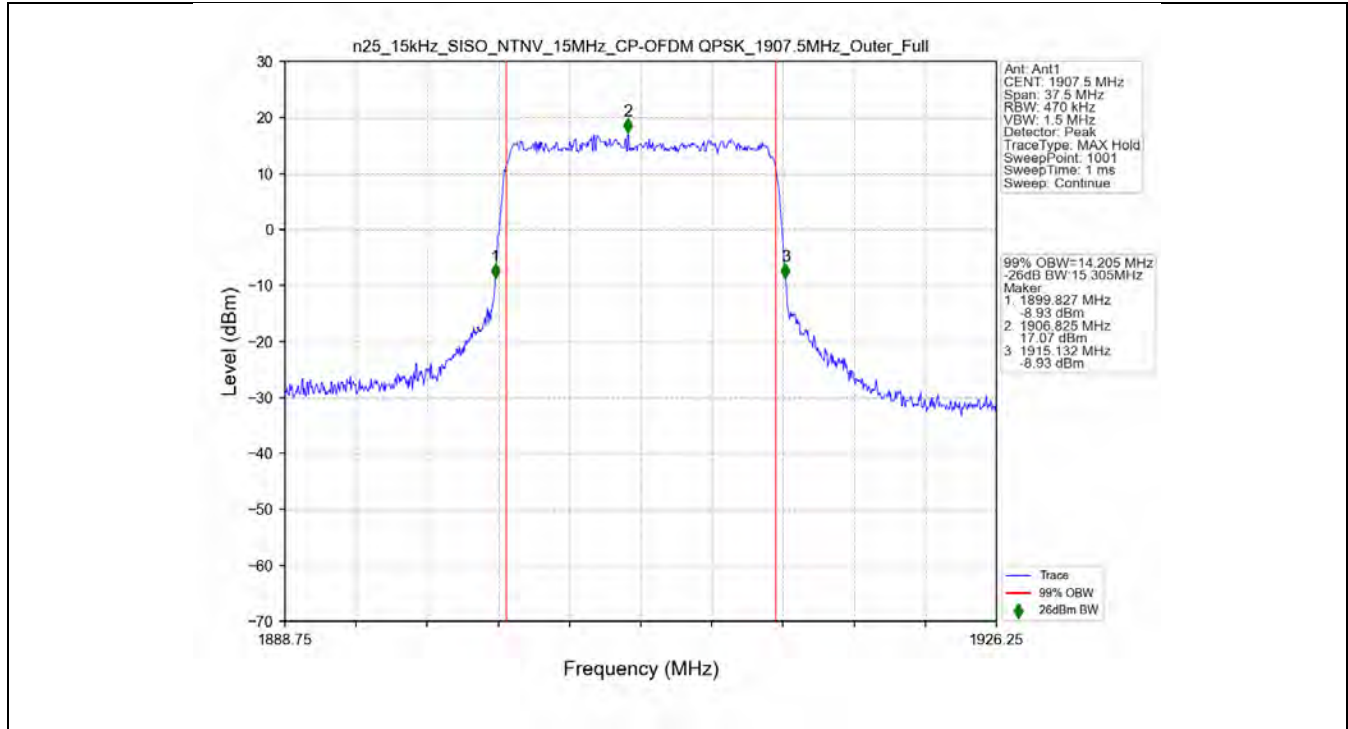


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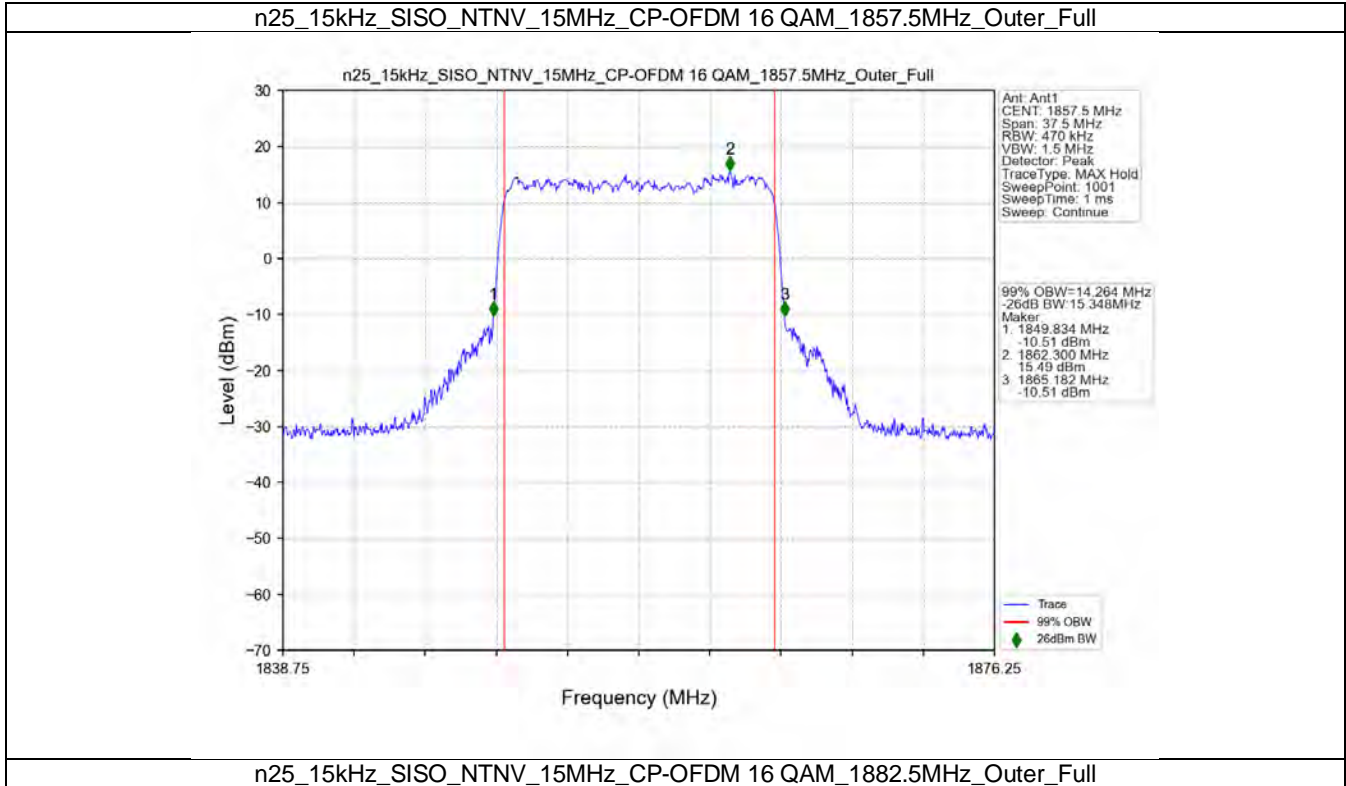


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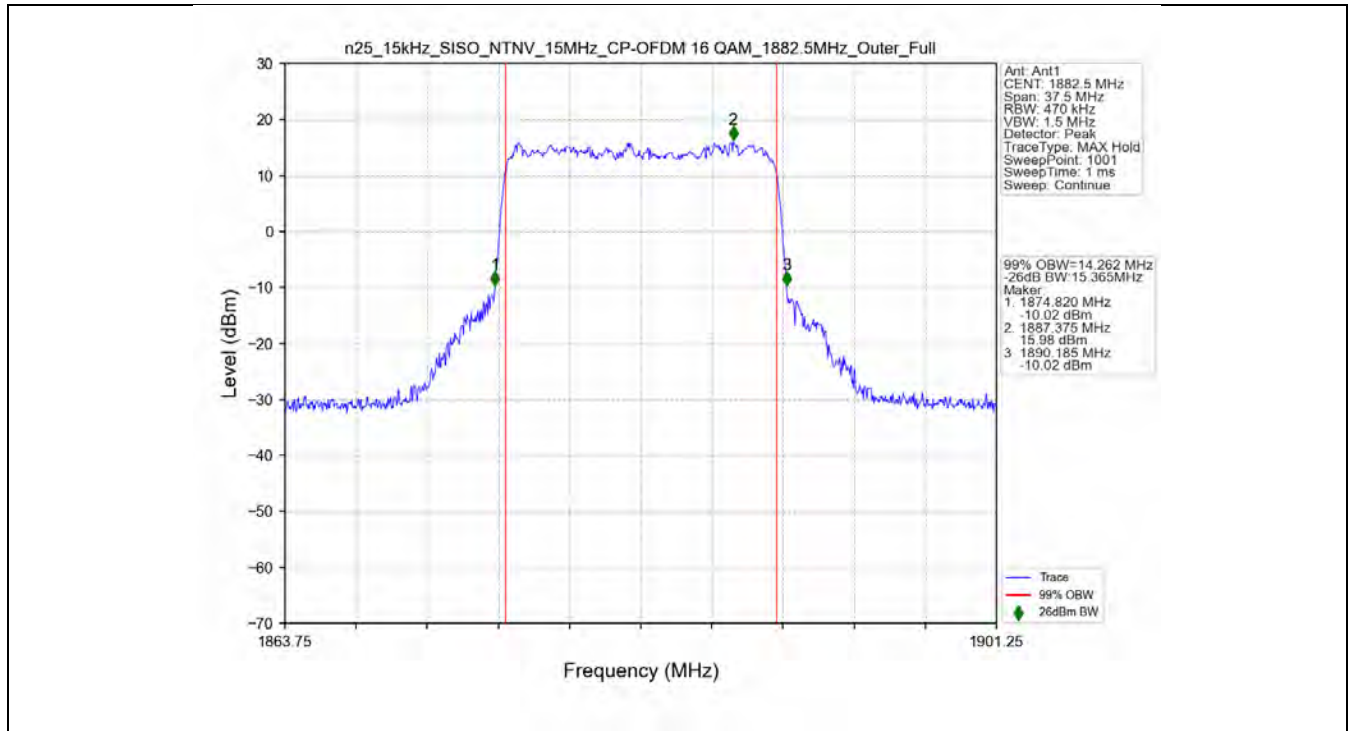


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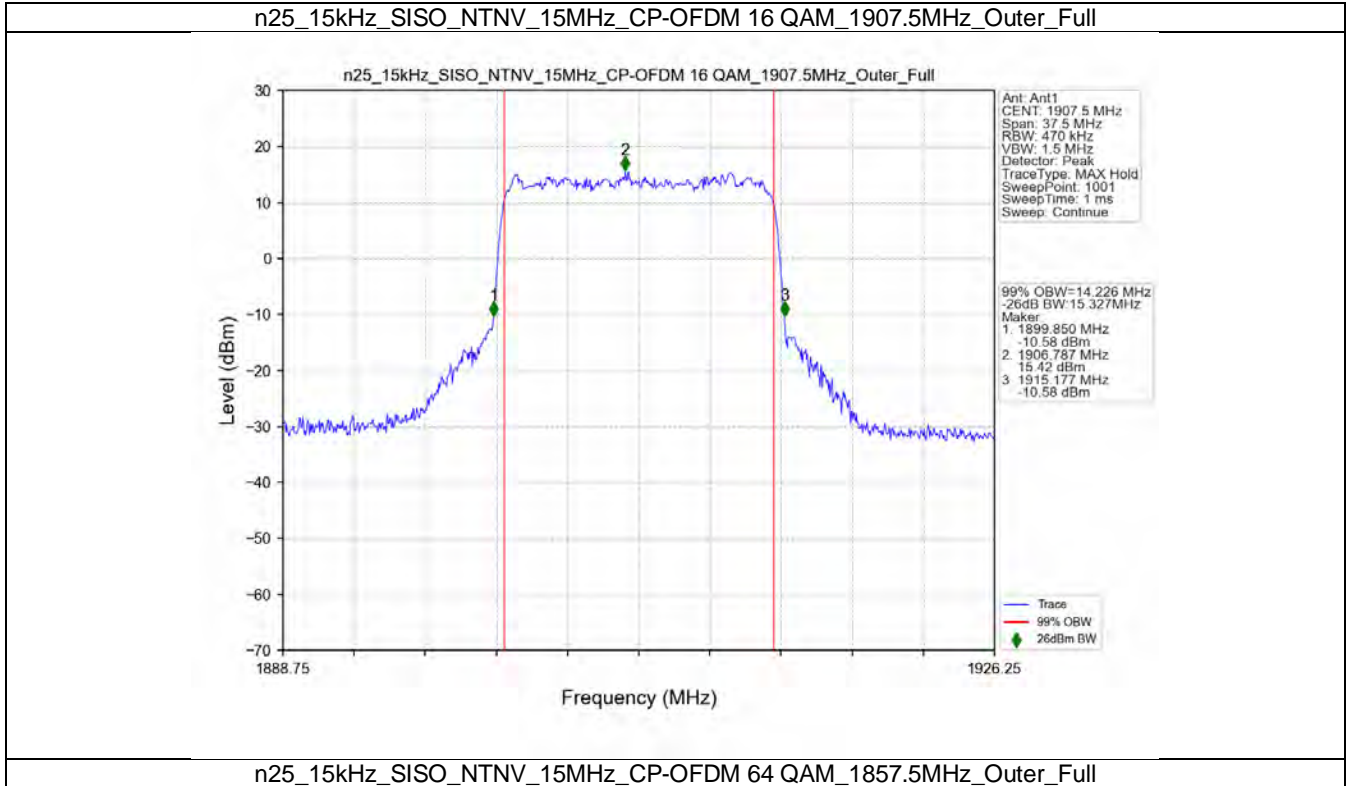


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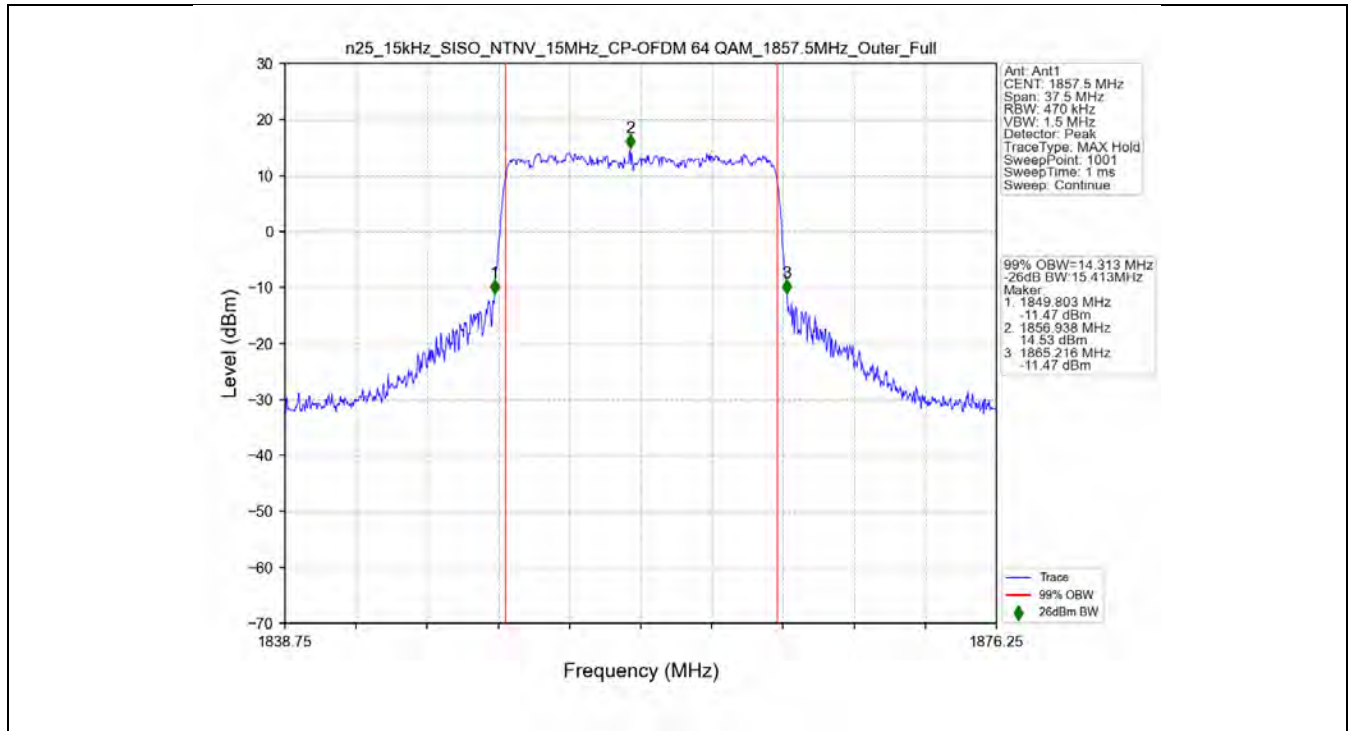


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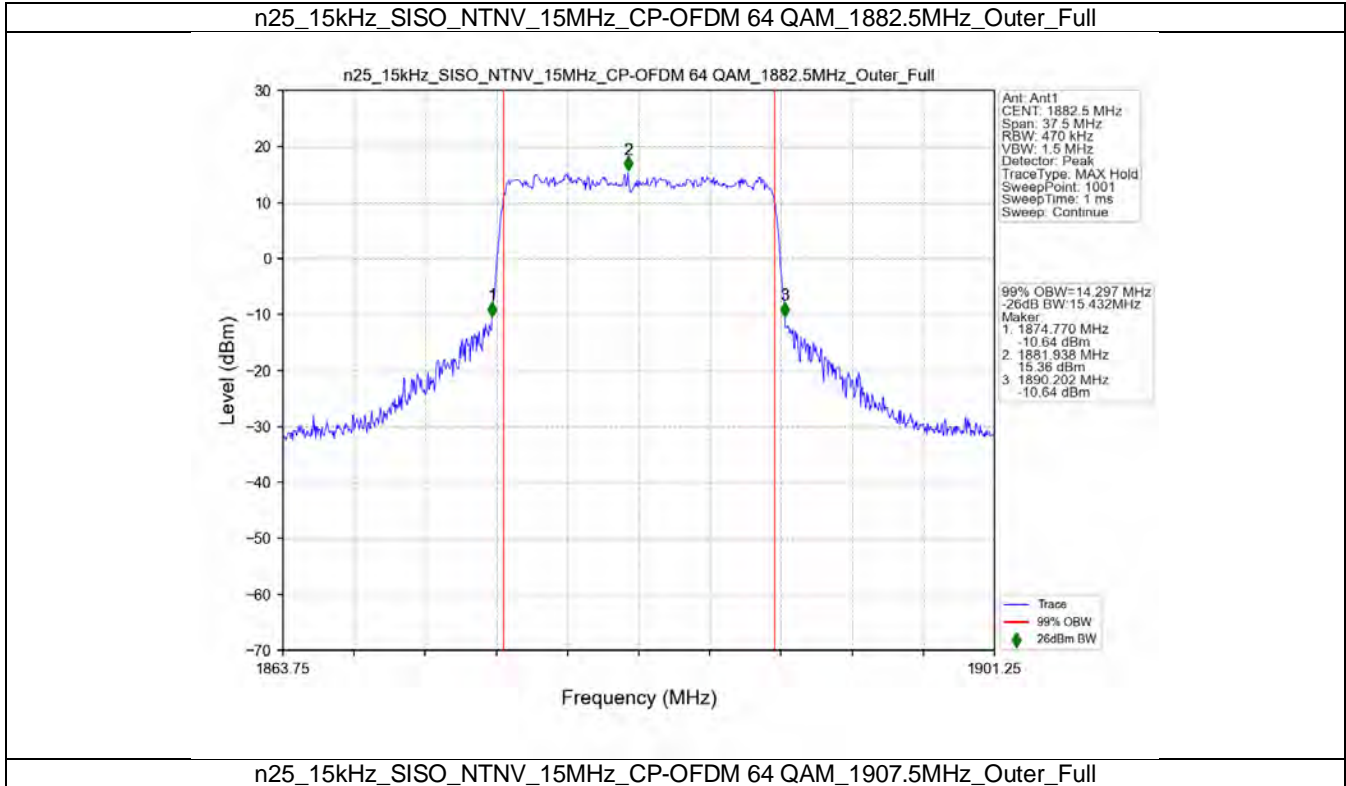


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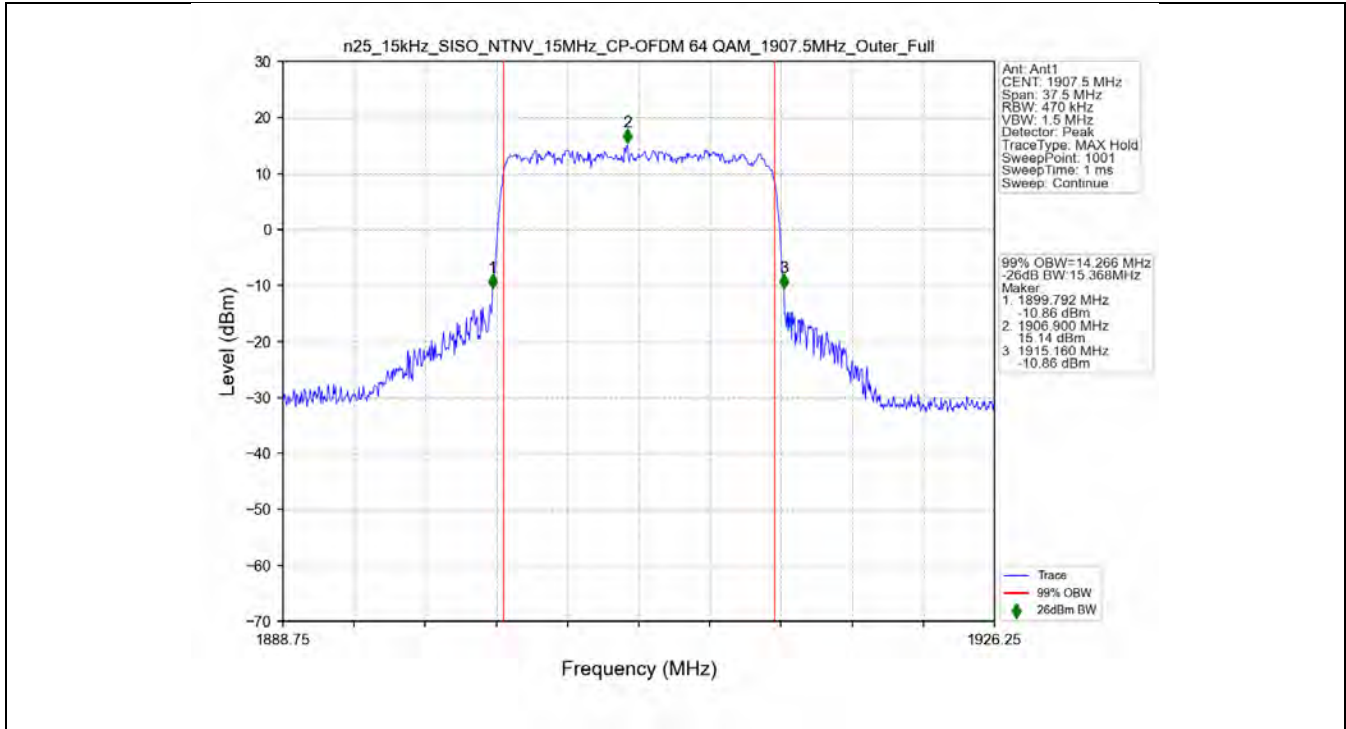


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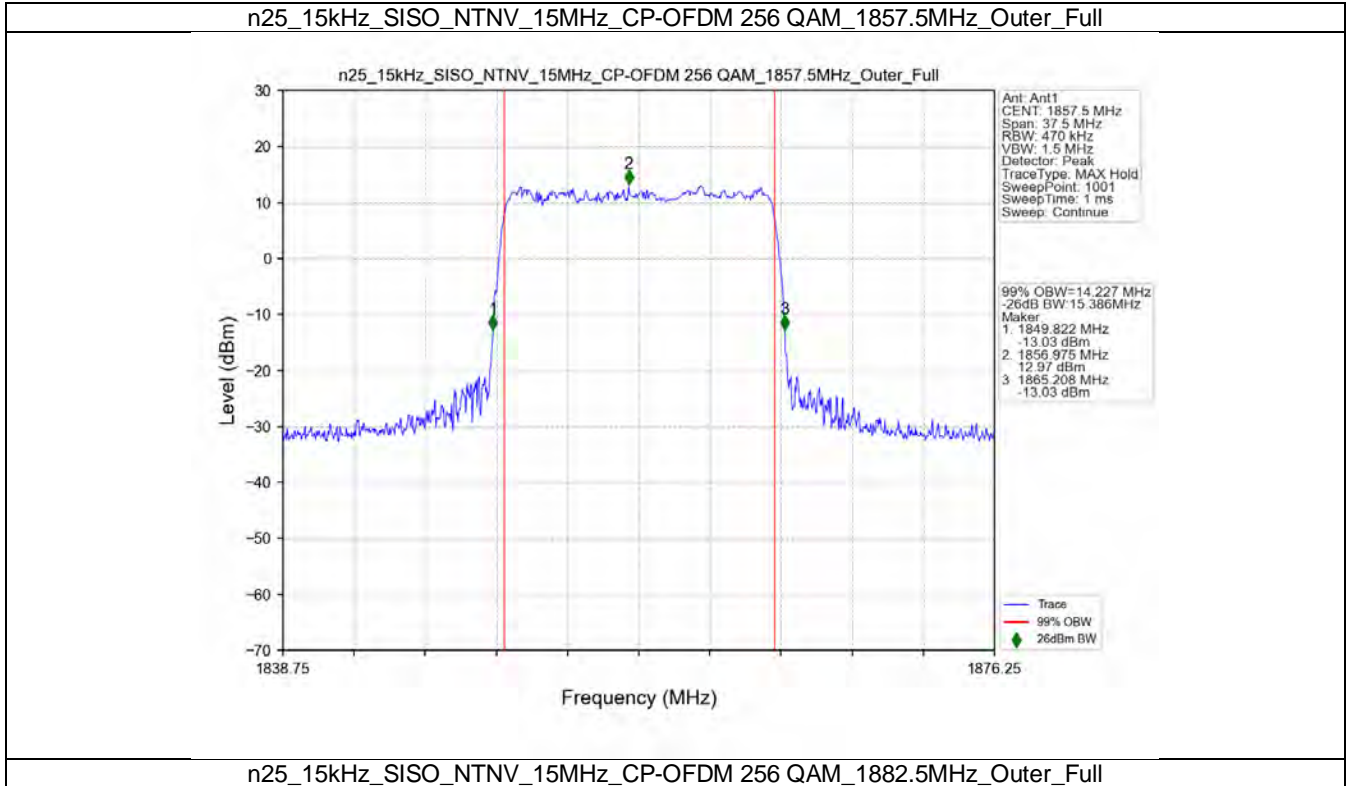


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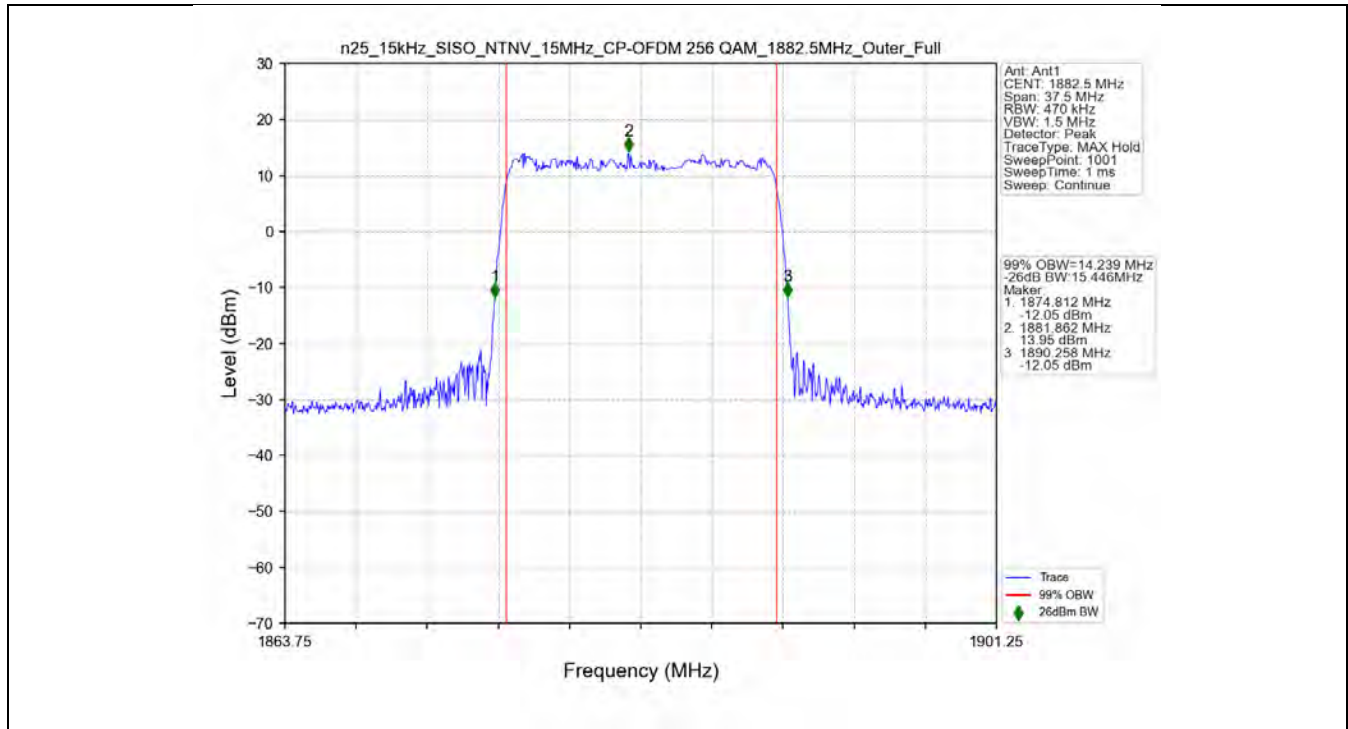


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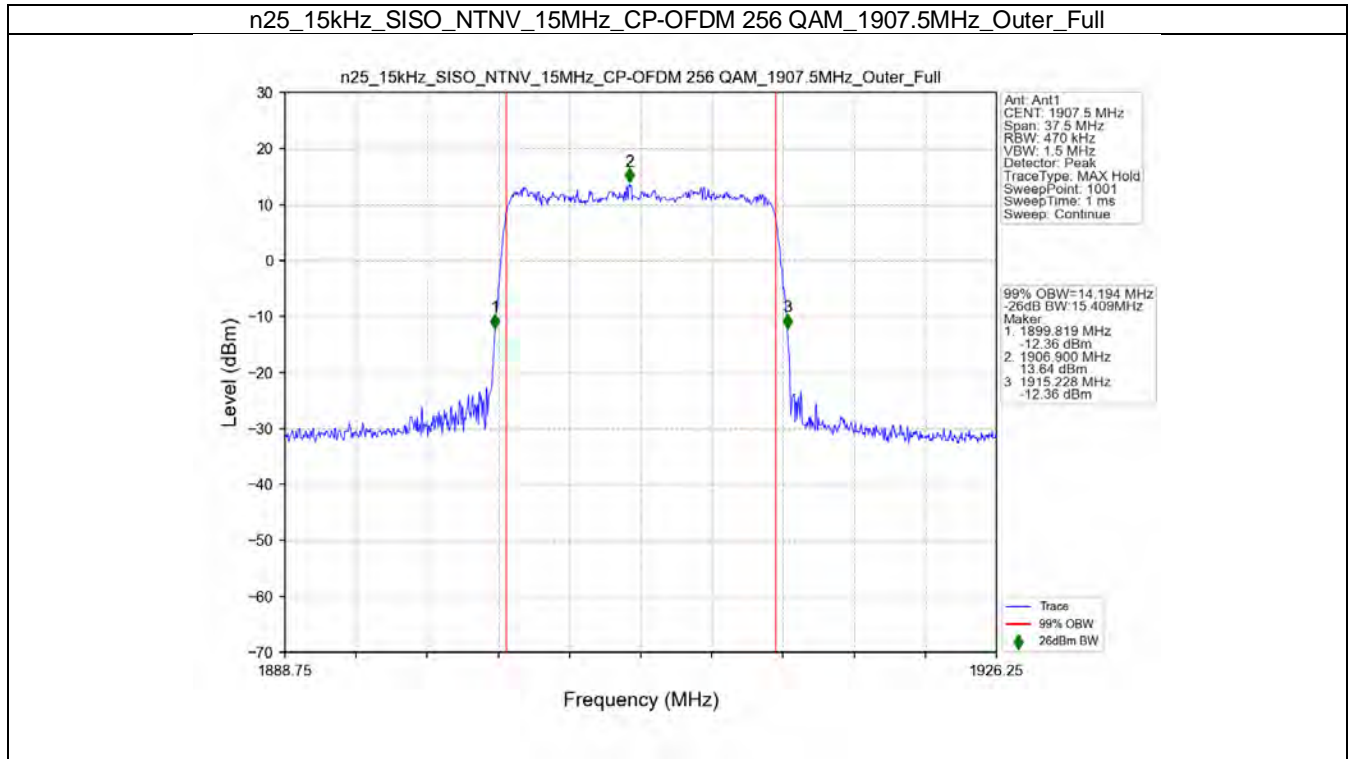


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3.4 15k_SISO_20MHz_NTNV

3.4.1 Test Result

5G NR n25 SCS=15kHz SISO 20MHz NTNv						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	1860	Outer_Full	18.07	19.40	/	Pass
	1882.5	Outer_Full	18.06	19.39	/	Pass
	1905	Outer_Full	18.10	19.42	/	Pass
DFT-s-OFDM QPSK	1860	Outer_Full	18.05	19.45	/	Pass
	1882.5	Outer_Full	18.06	19.48	/	Pass
	1905	Outer_Full	18.05	19.50	/	Pass
DFT-s-OFDM 16 QAM	1860	Outer_Full	18.03	19.39	/	Pass
	1882.5	Outer_Full	18.02	19.37	/	Pass
	1905	Outer_Full	18.05	19.41	/	Pass
DFT-s-OFDM 64 QAM	1860	Outer_Full	18.06	19.41	/	Pass
	1882.5	Outer_Full	18.03	19.46	/	Pass
	1905	Outer_Full	18.06	19.48	/	Pass
DFT-s-OFDM 256 QAM	1860	Outer_Full	18.05	19.40	/	Pass
	1882.5	Outer_Full	18.04	19.36	/	Pass
	1905	Outer_Full	18.05	19.37	/	Pass
CP-OFDM QPSK	1860	Outer_Full	19.06	20.56	/	Pass
	1882.5	Outer_Full	19.02	20.57	/	Pass
	1905	Outer_Full	19.03	20.79	/	Pass
CP-OFDM 16 QAM	1860	Outer_Full	19.09	20.53	/	Pass
	1882.5	Outer_Full	19.11	20.59	/	Pass
	1905	Outer_Full	19.11	20.71	/	Pass
CP-OFDM 64 QAM	1860	Outer_Full	19.12	20.47	/	Pass
	1882.5	Outer_Full	19.09	20.48	/	Pass
	1905	Outer_Full	19.12	20.48	/	Pass
CP-OFDM 256 QAM	1860	Outer_Full	19.18	20.53	/	Pass
	1882.5	Outer_Full	19.13	20.56	/	Pass
	1905	Outer_Full	19.16	20.58	/	Pass



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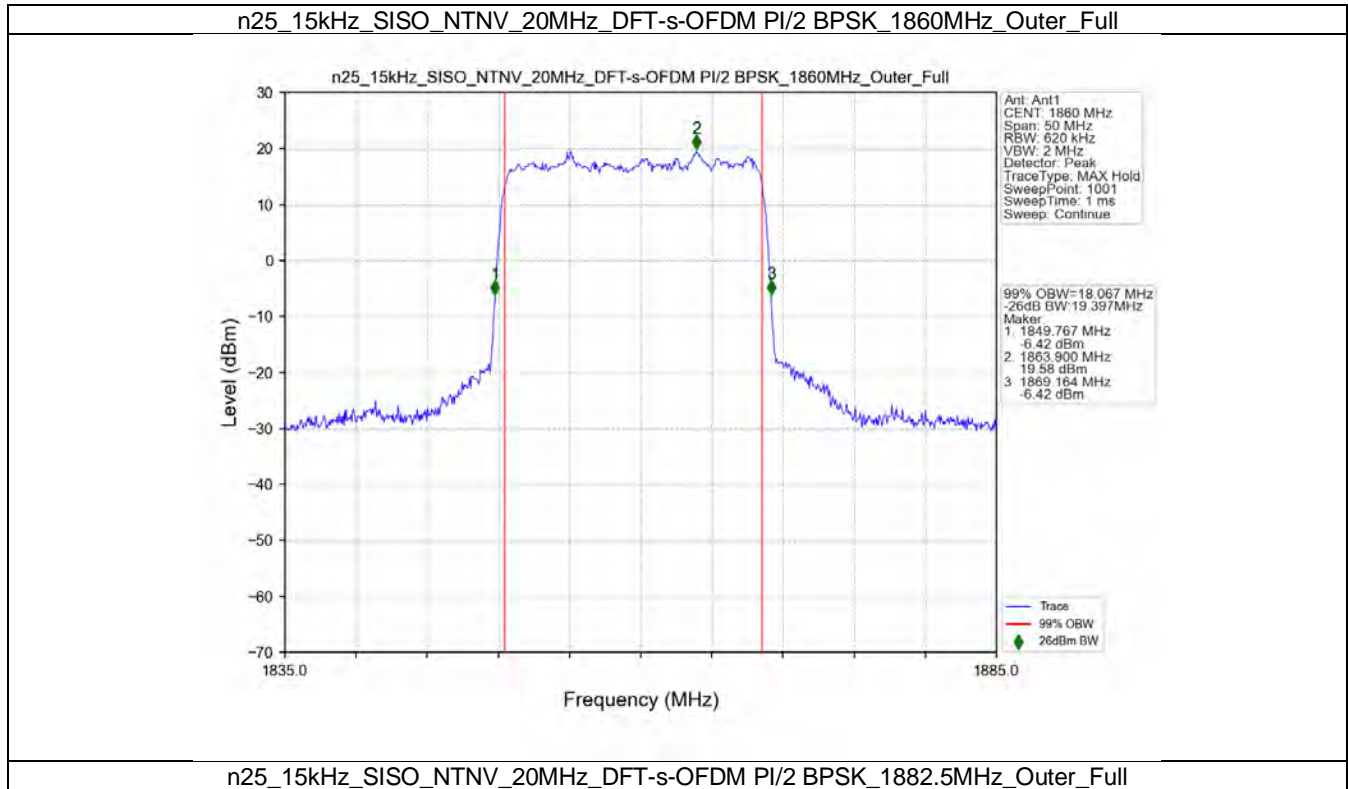
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3.4.2 Test Graph



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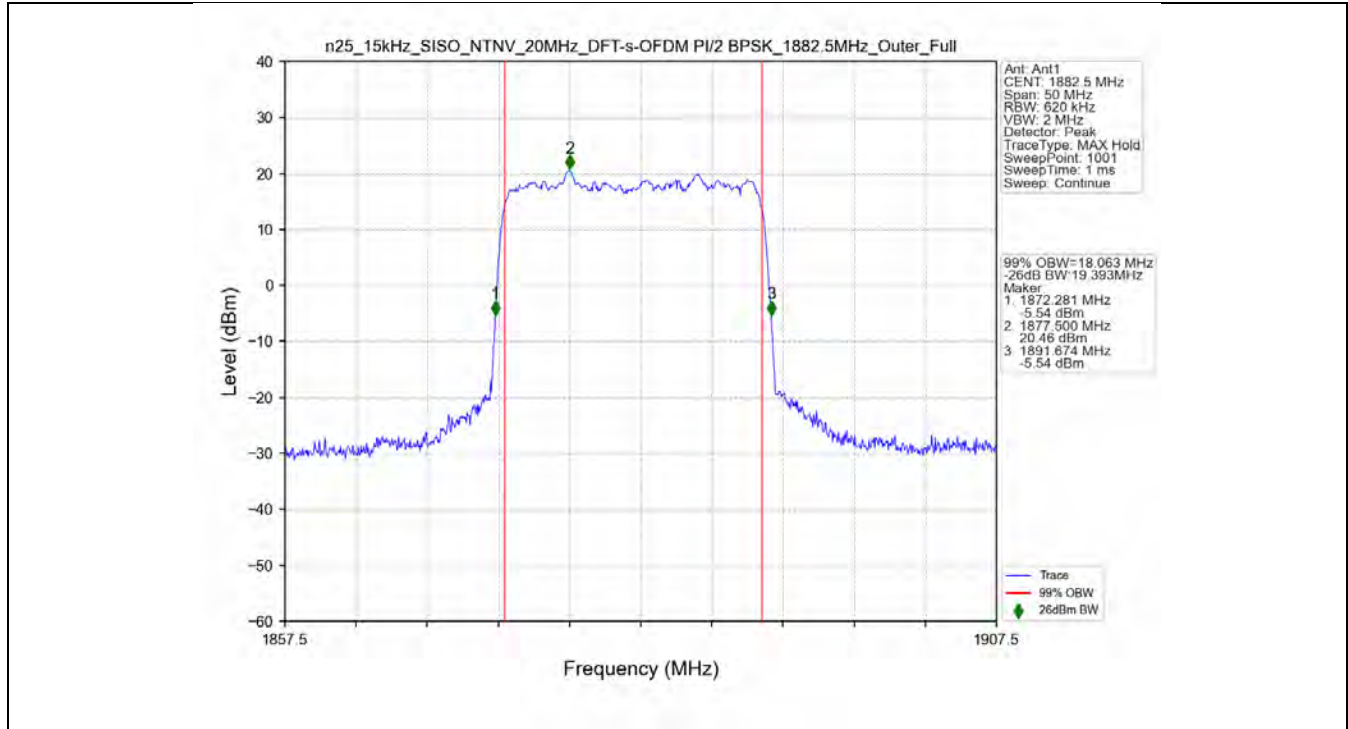


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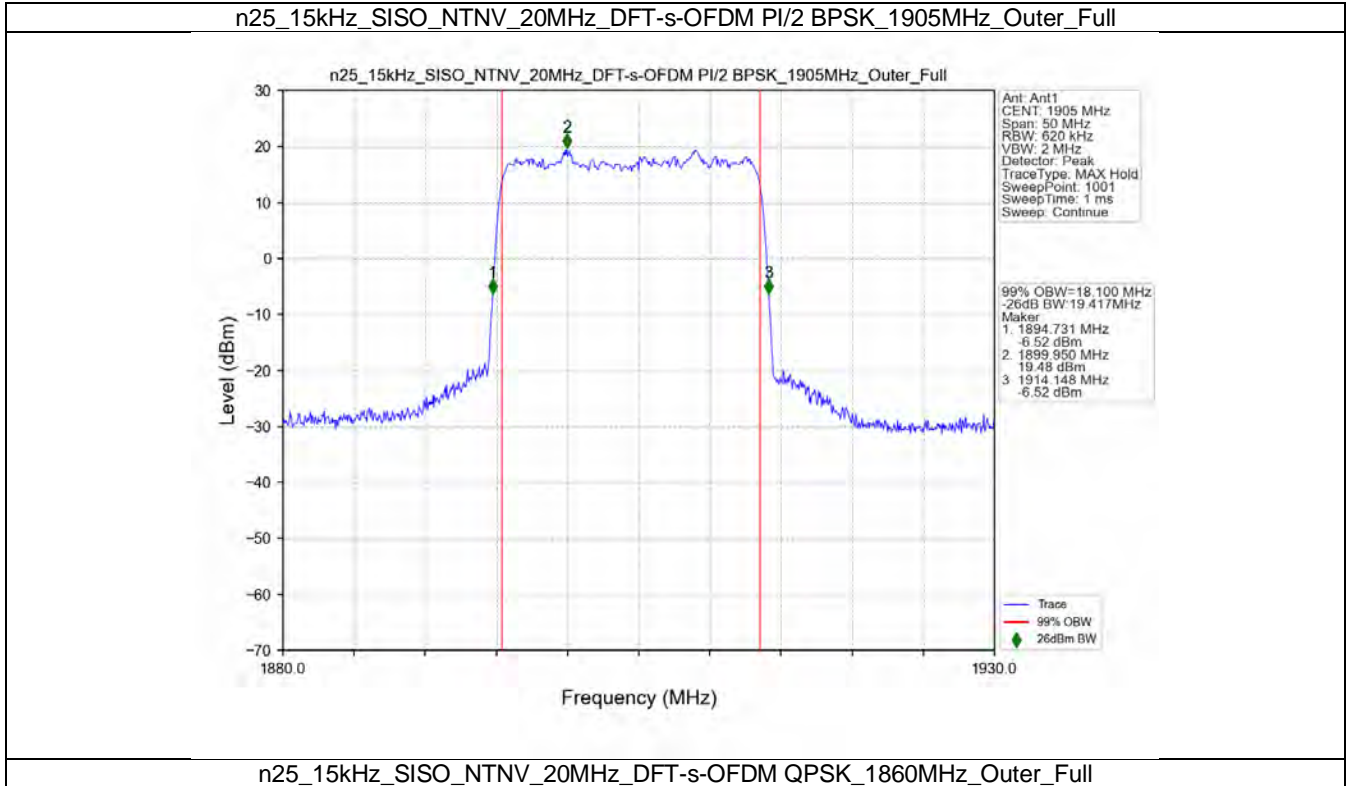


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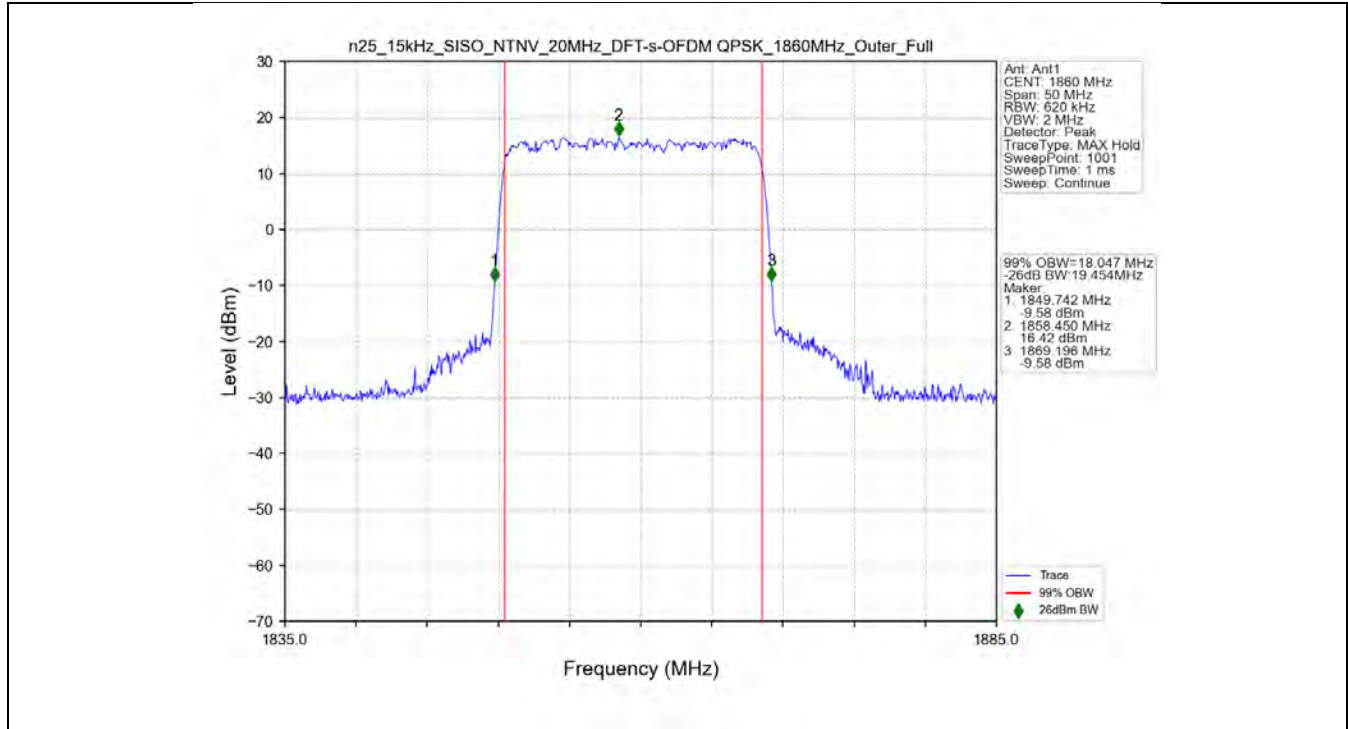


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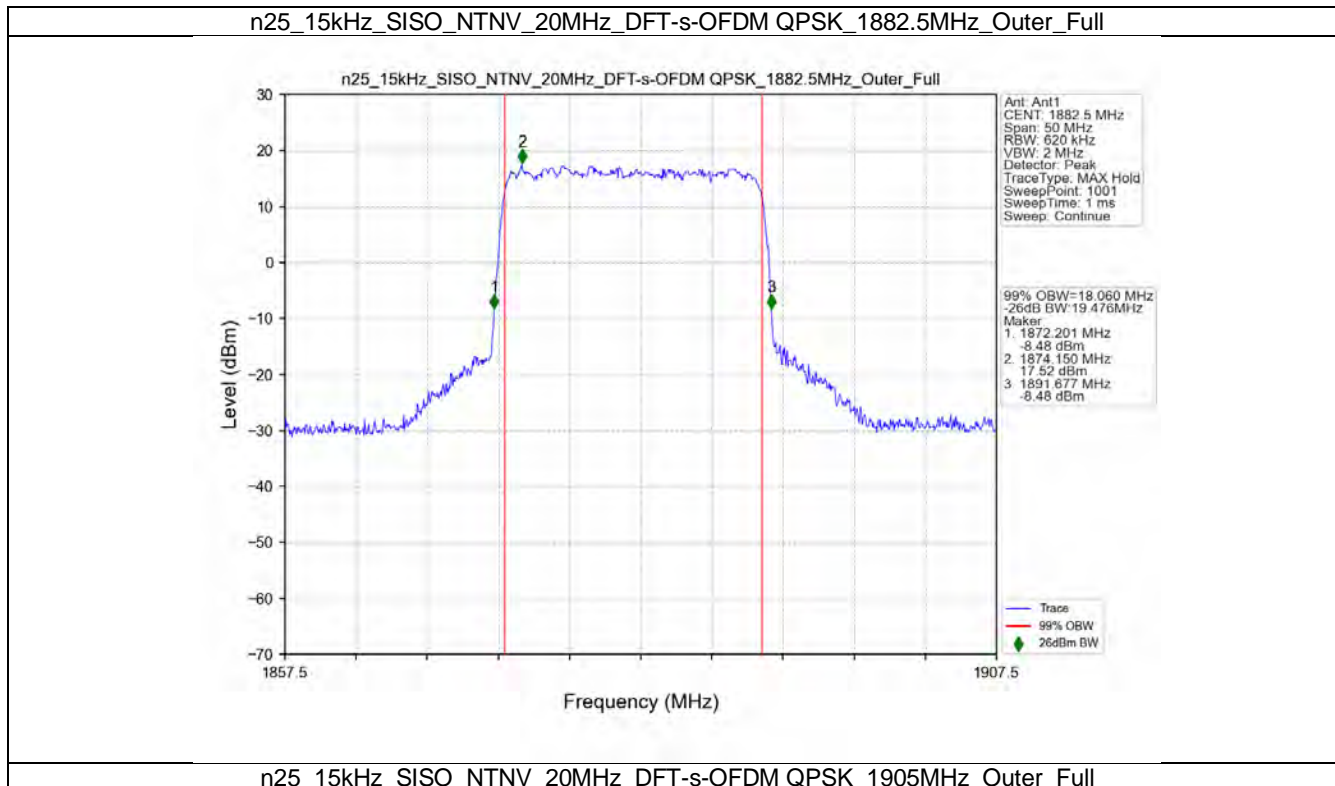
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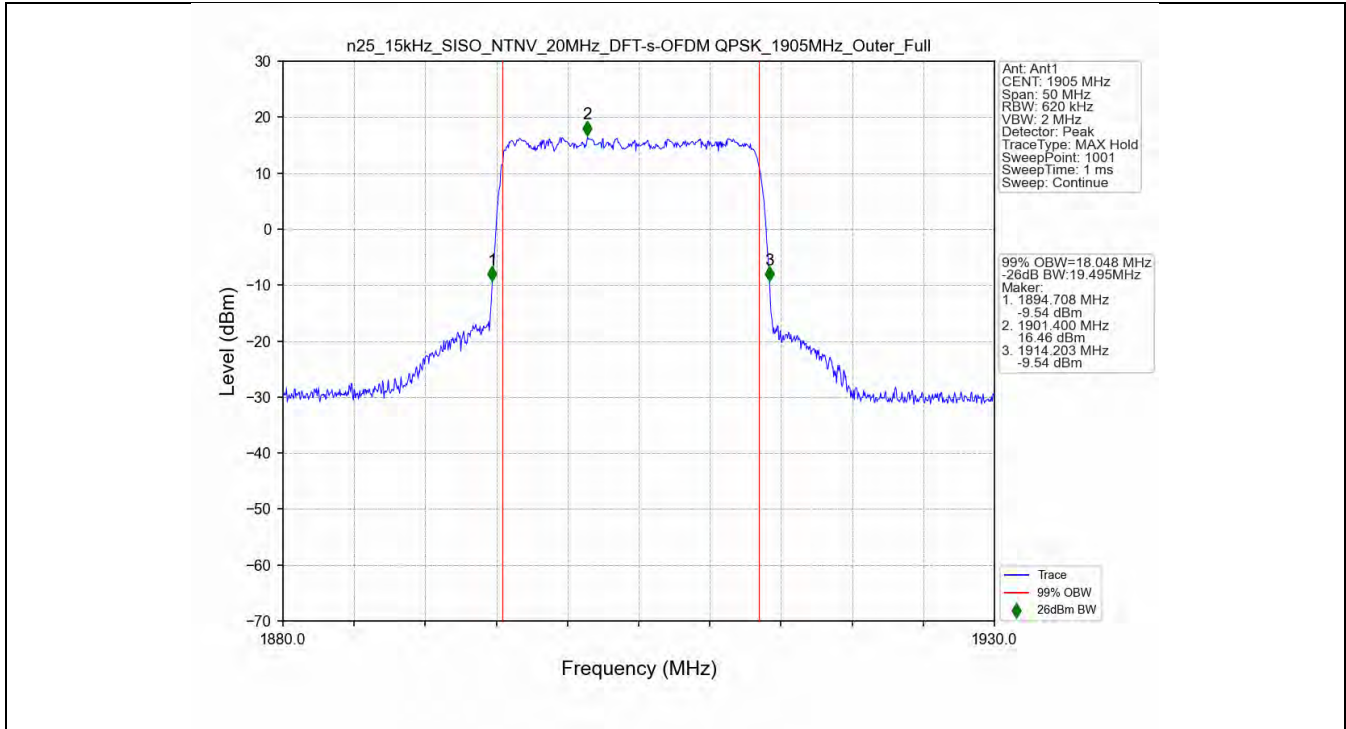


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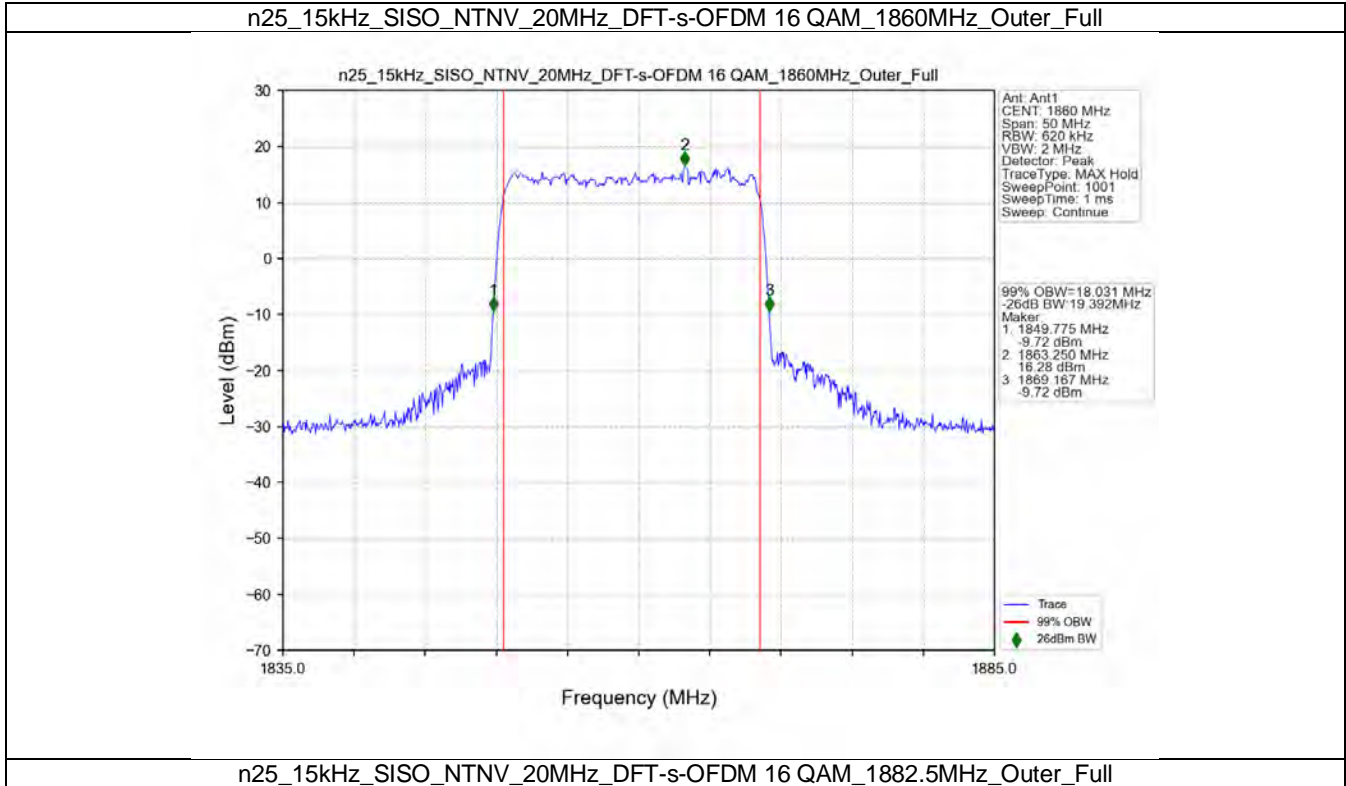


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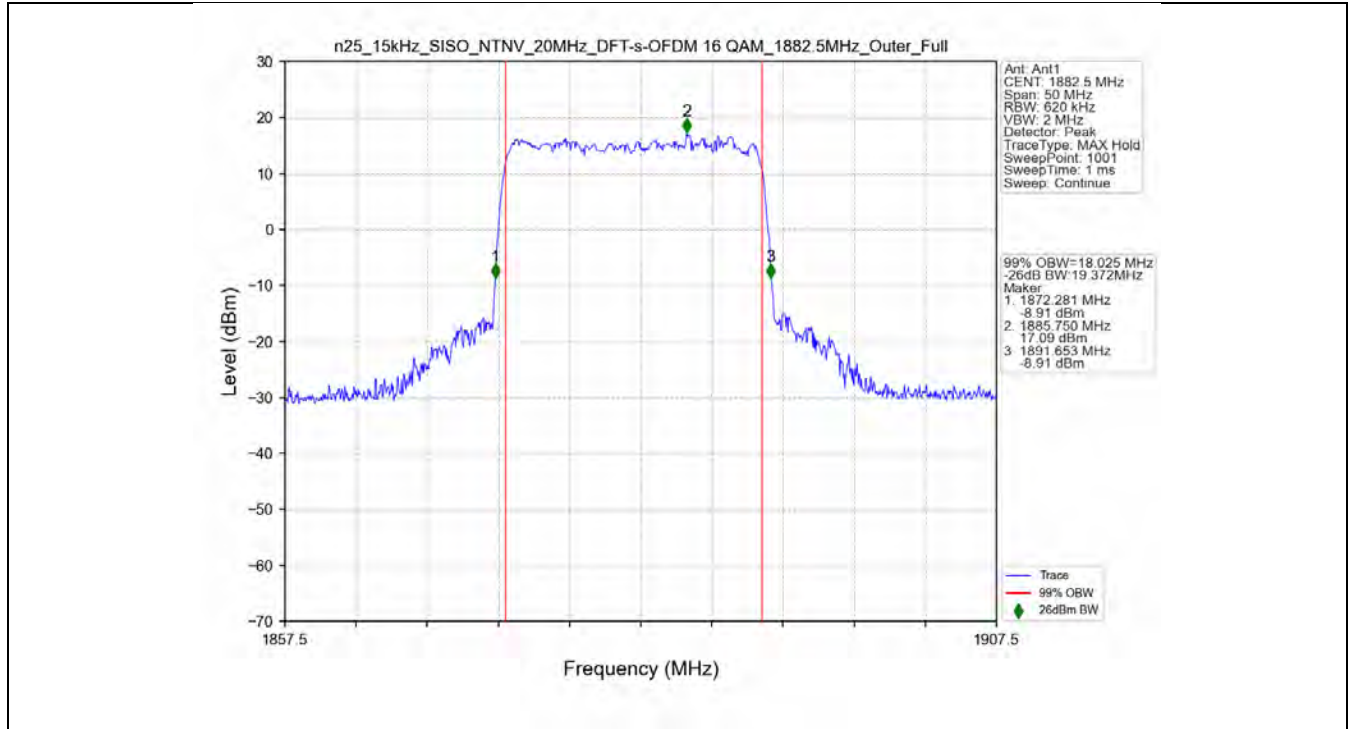


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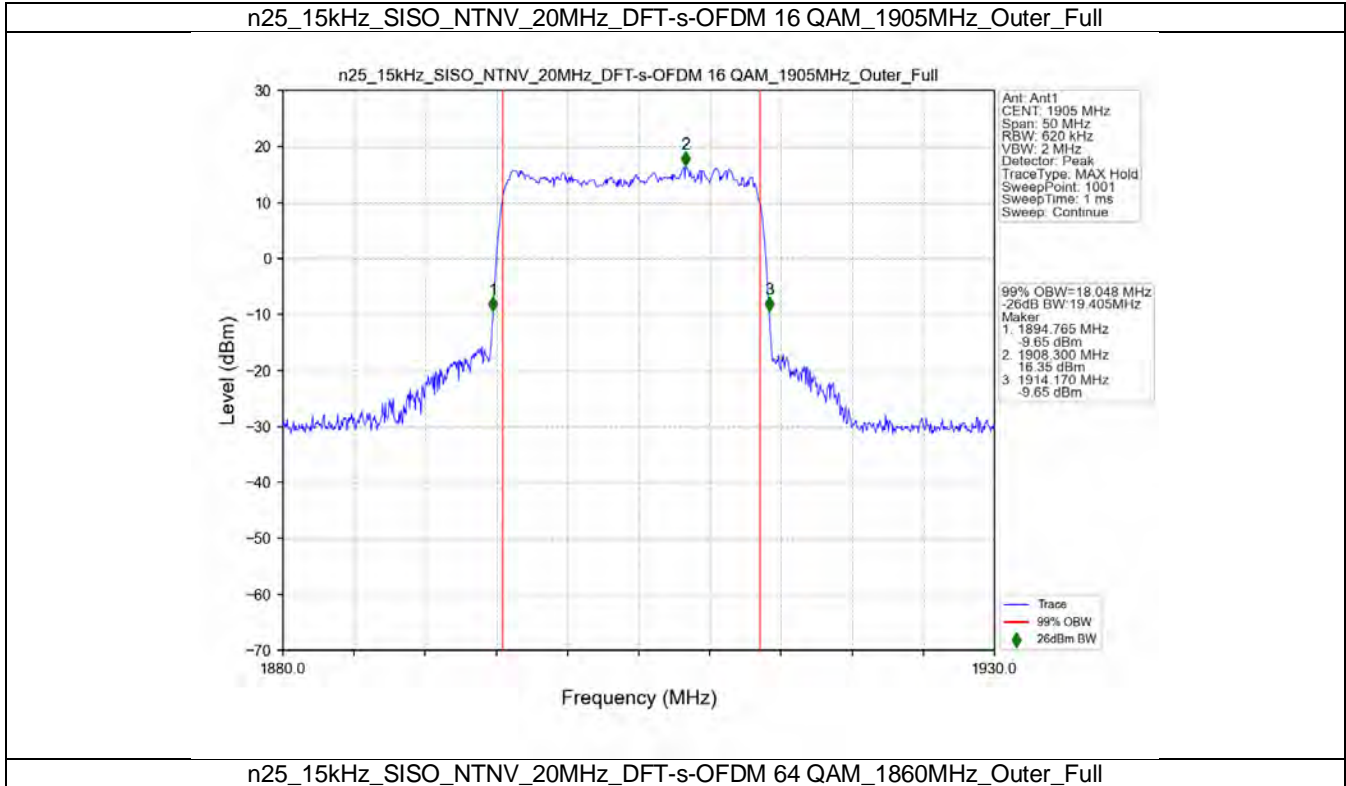


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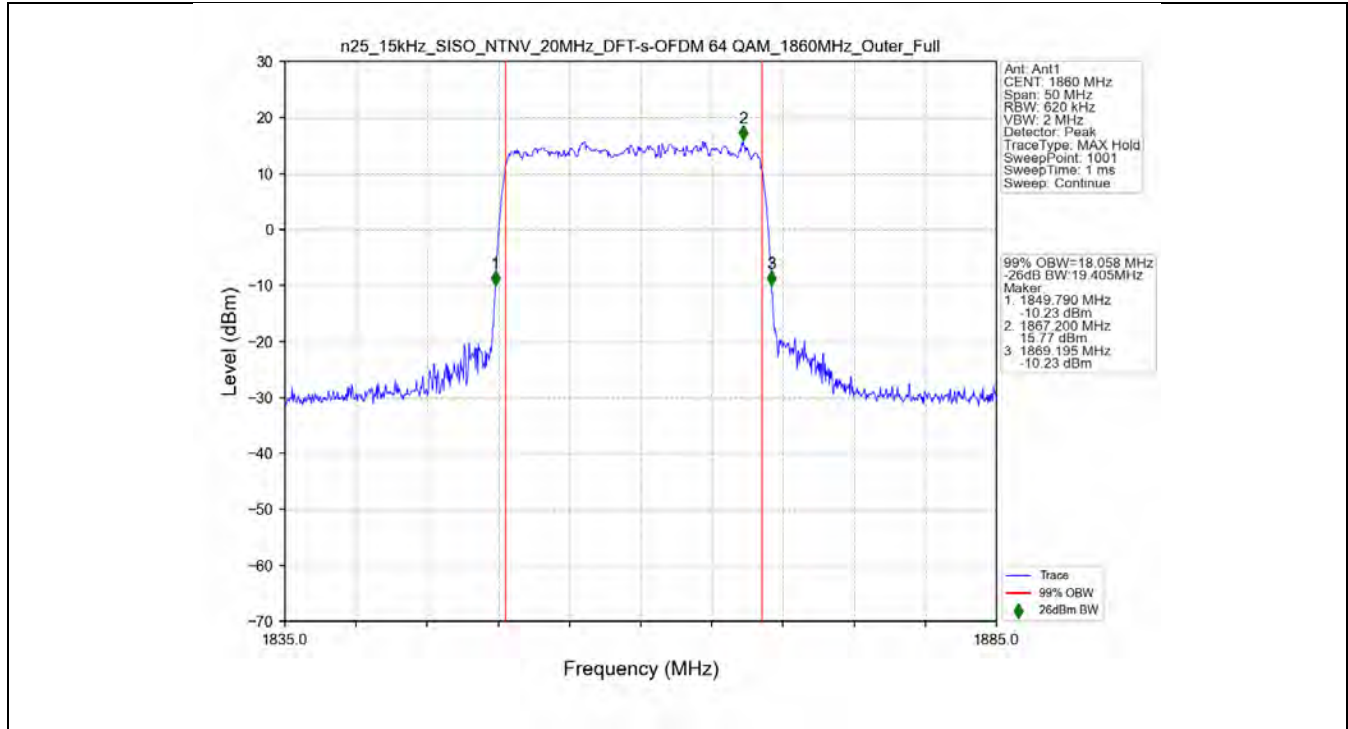


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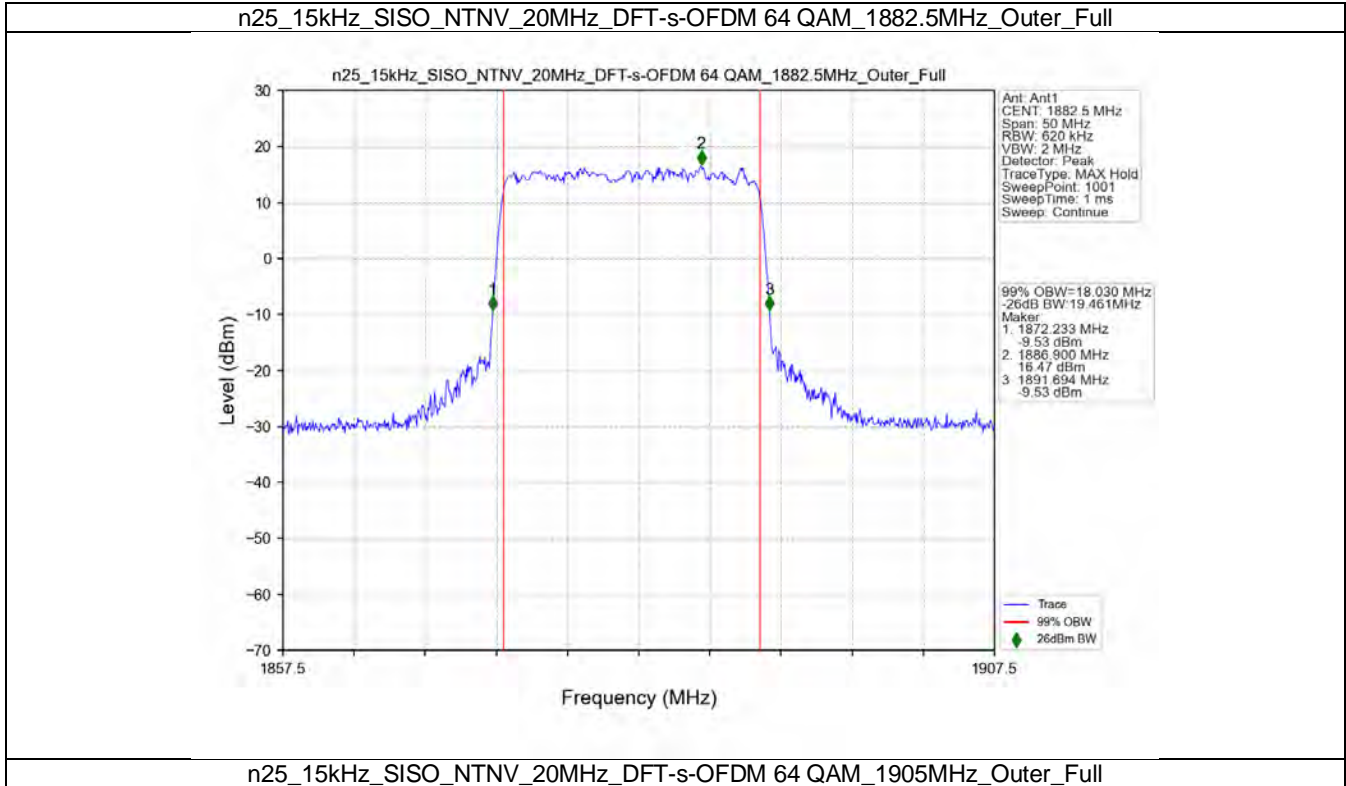


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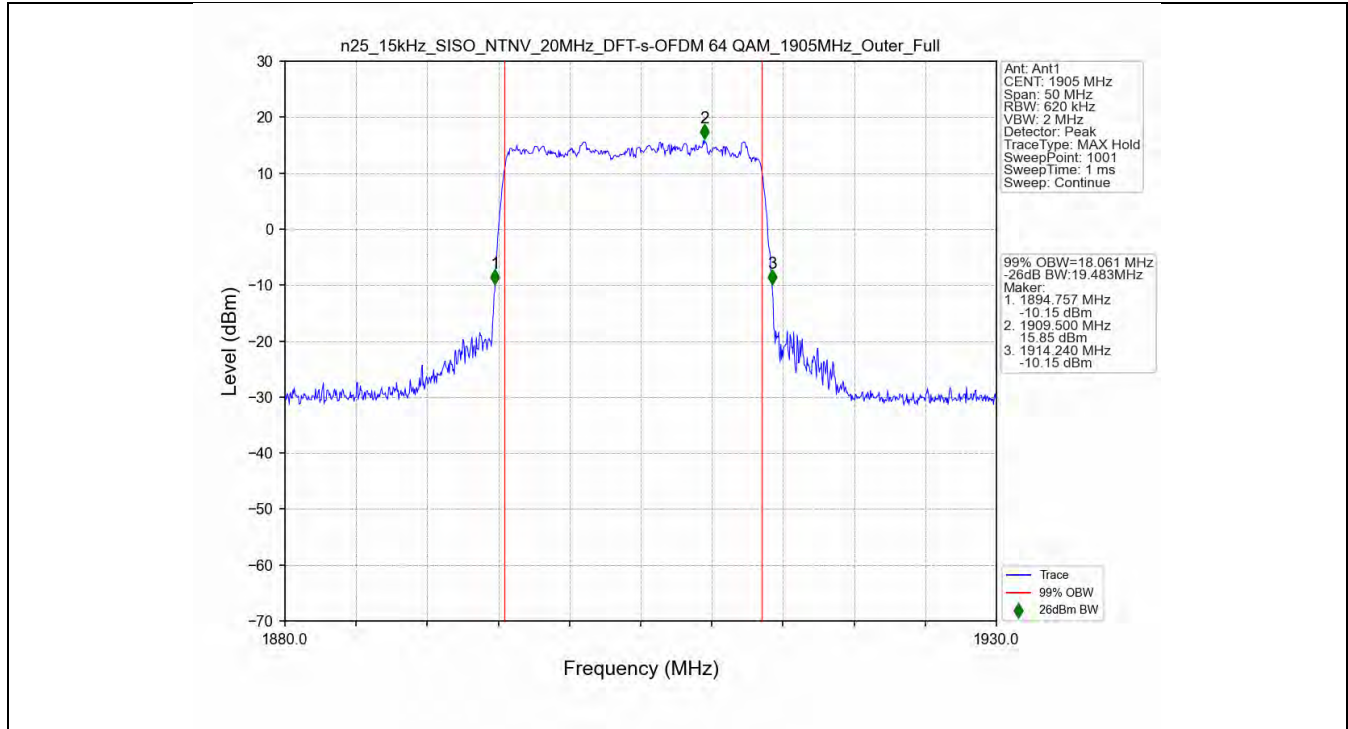


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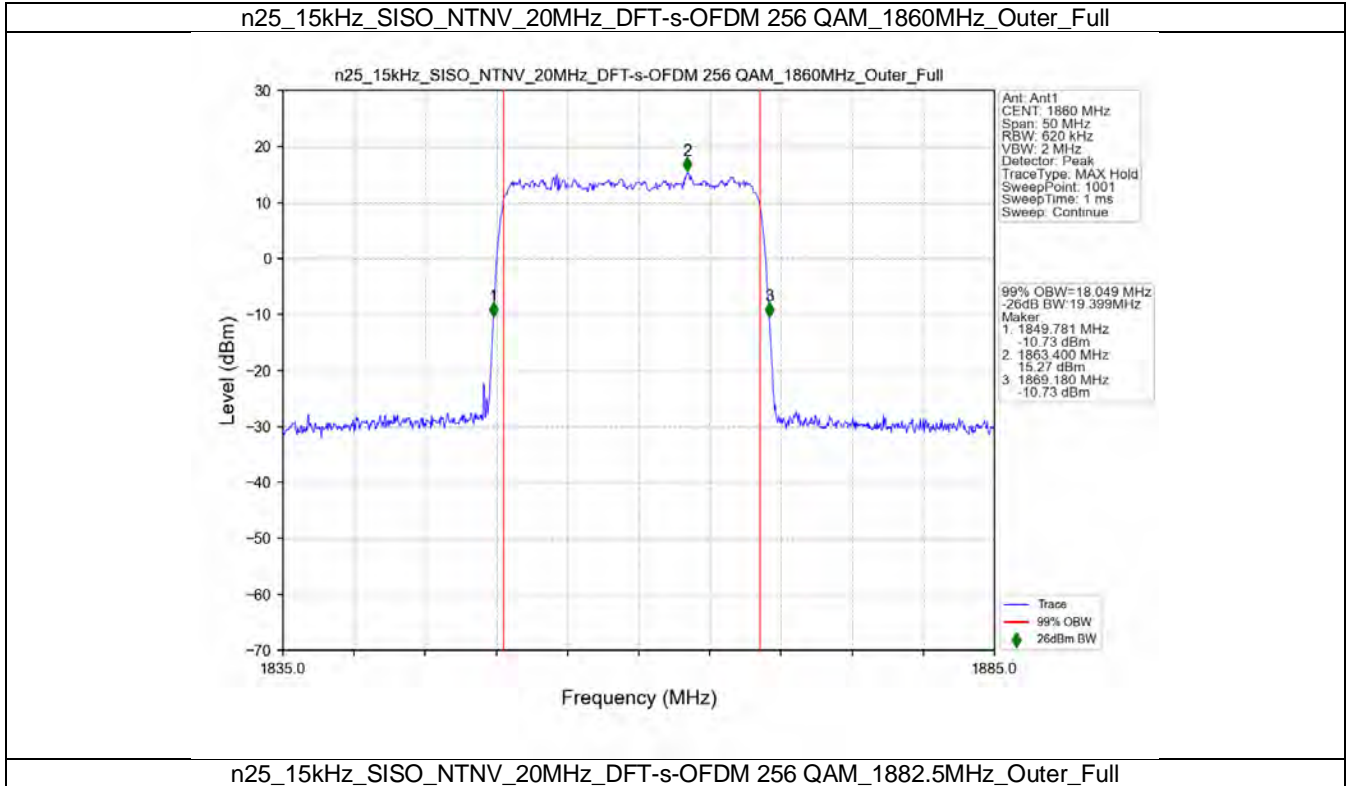


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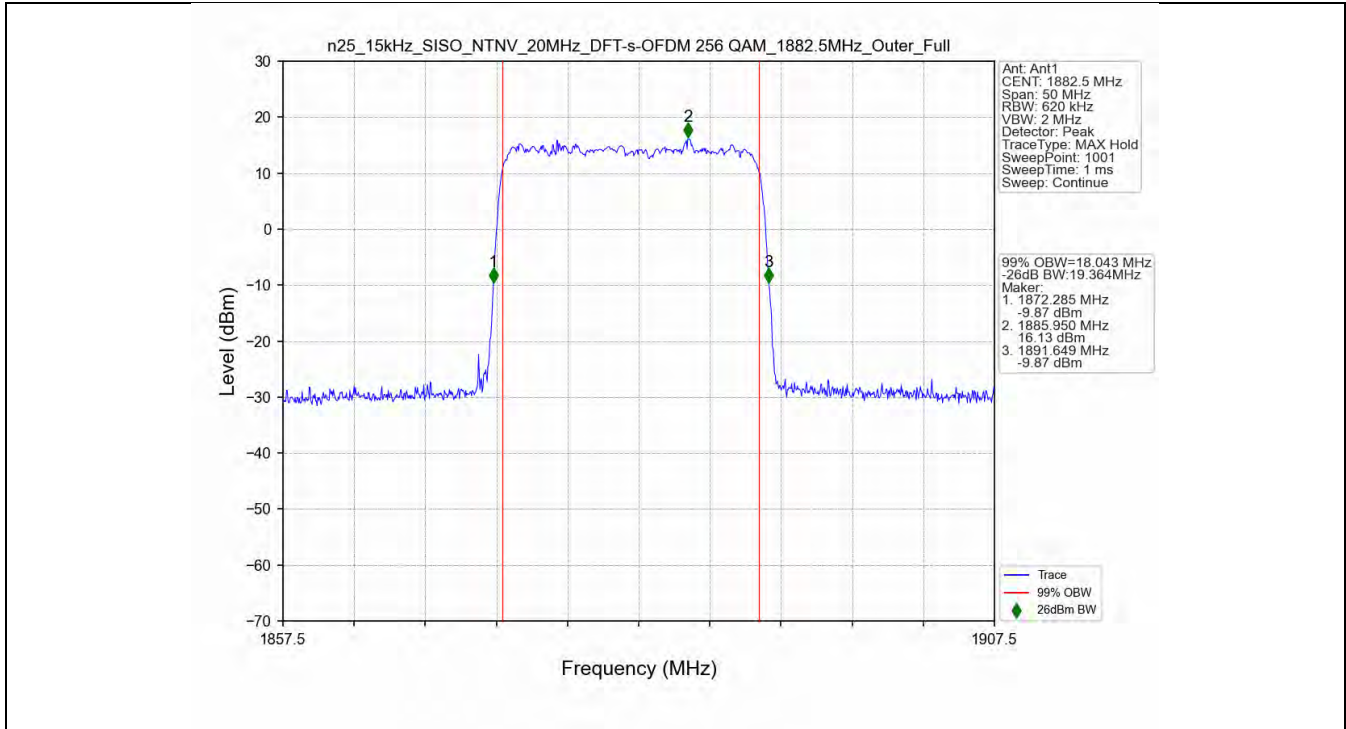


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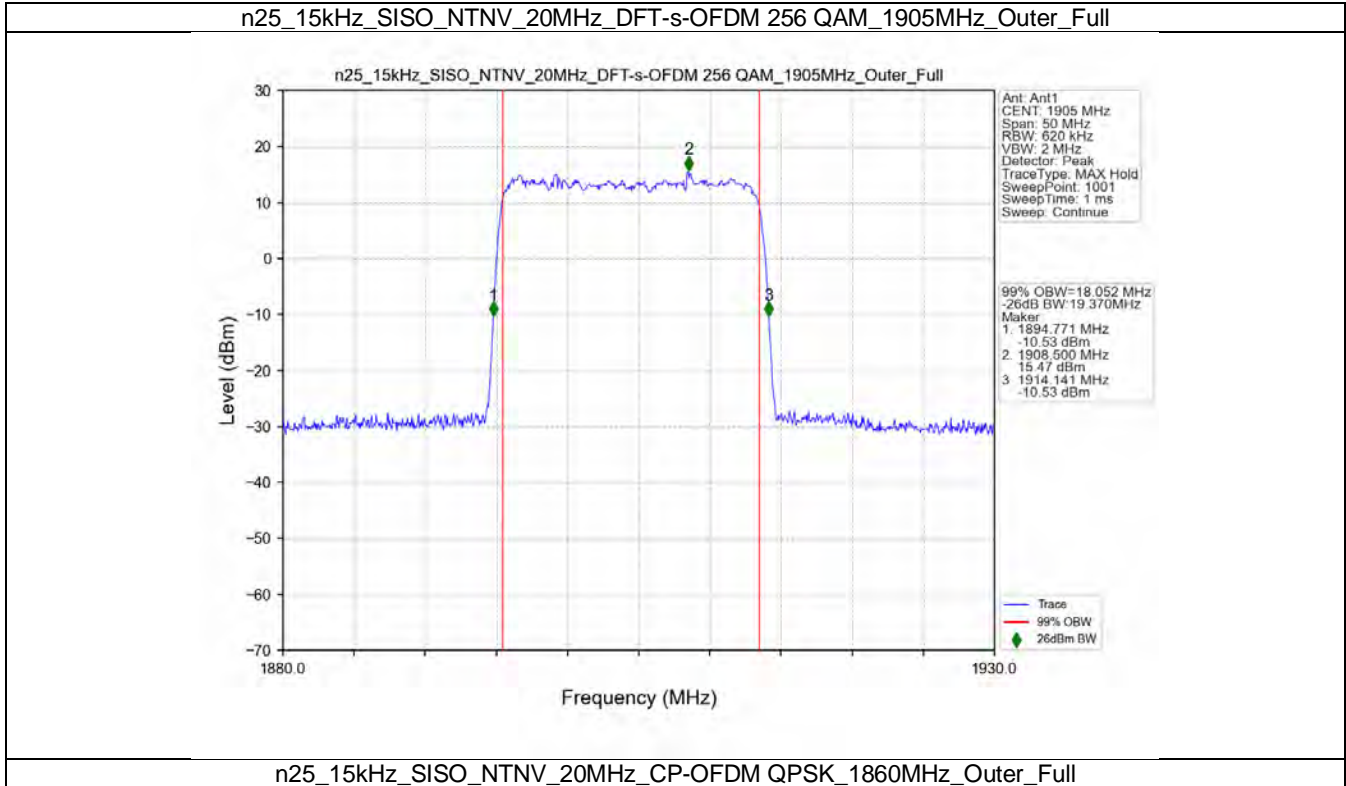


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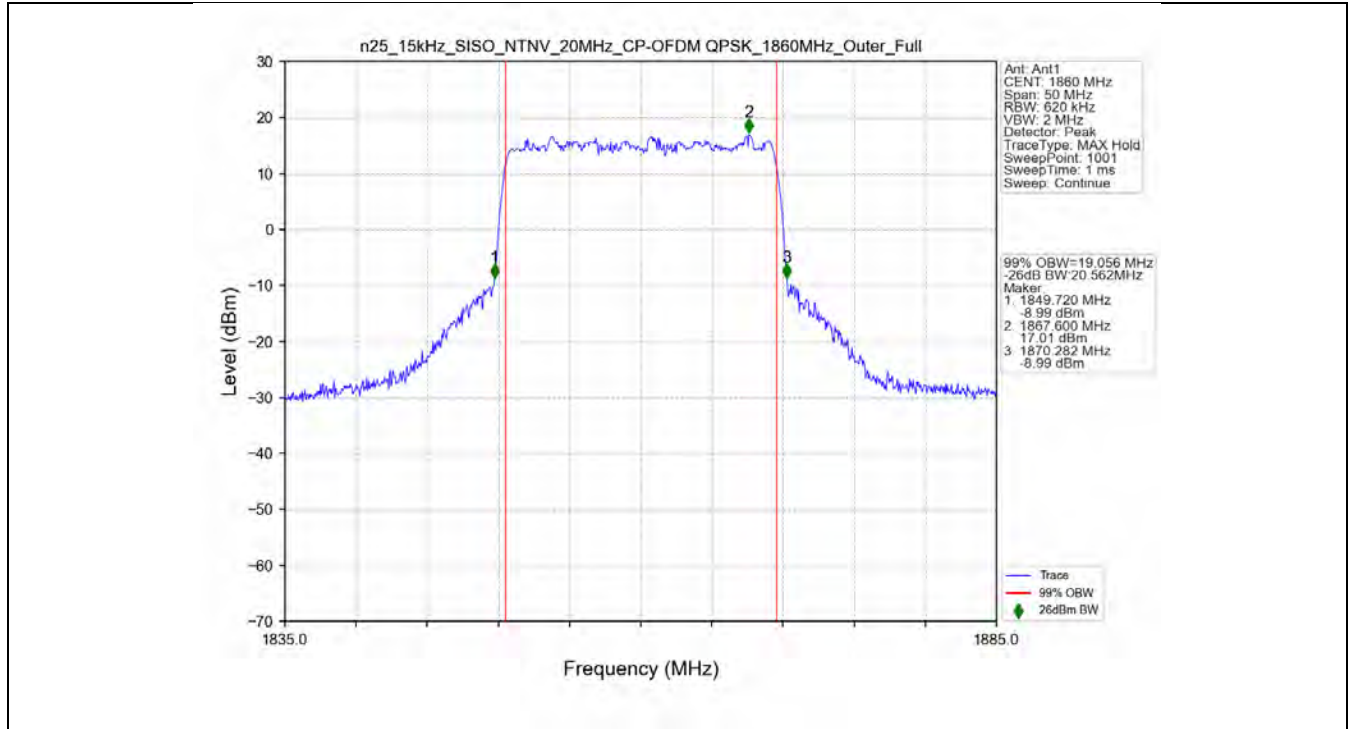


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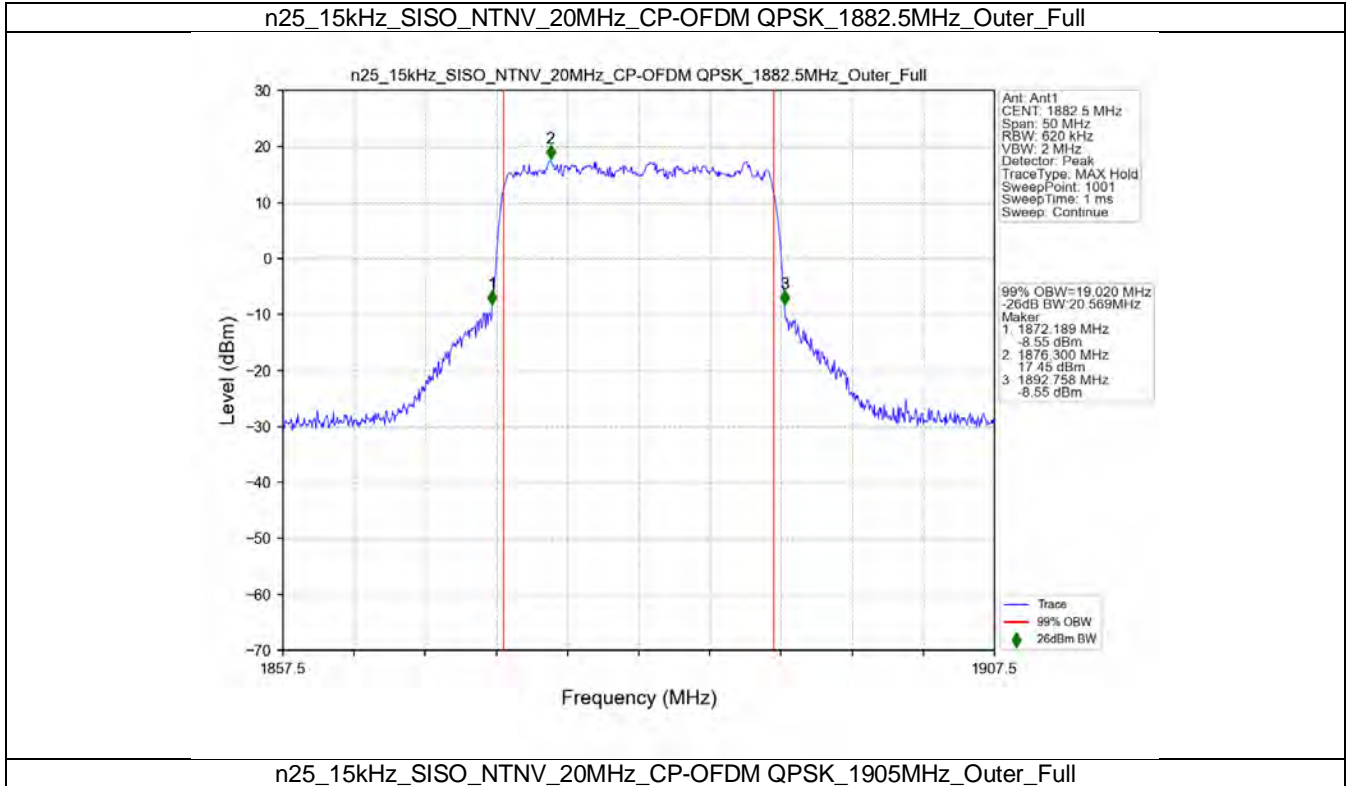


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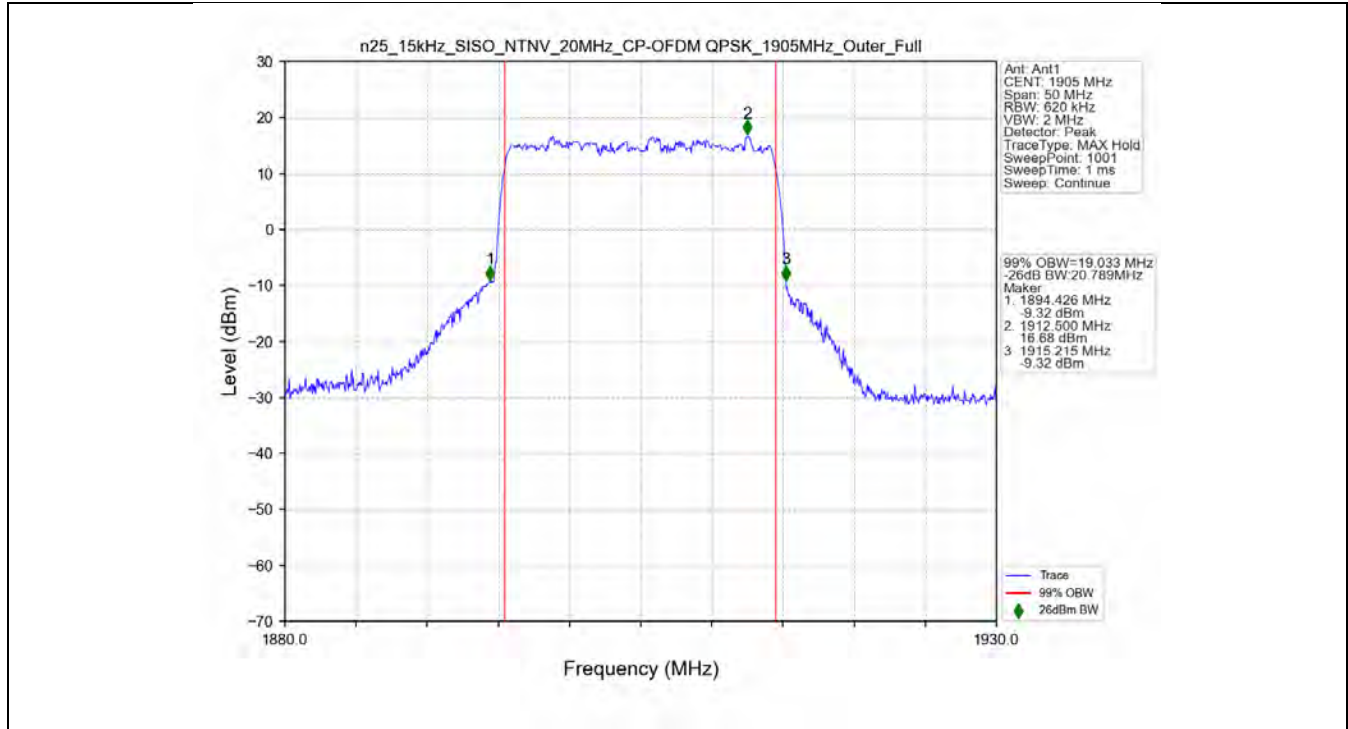


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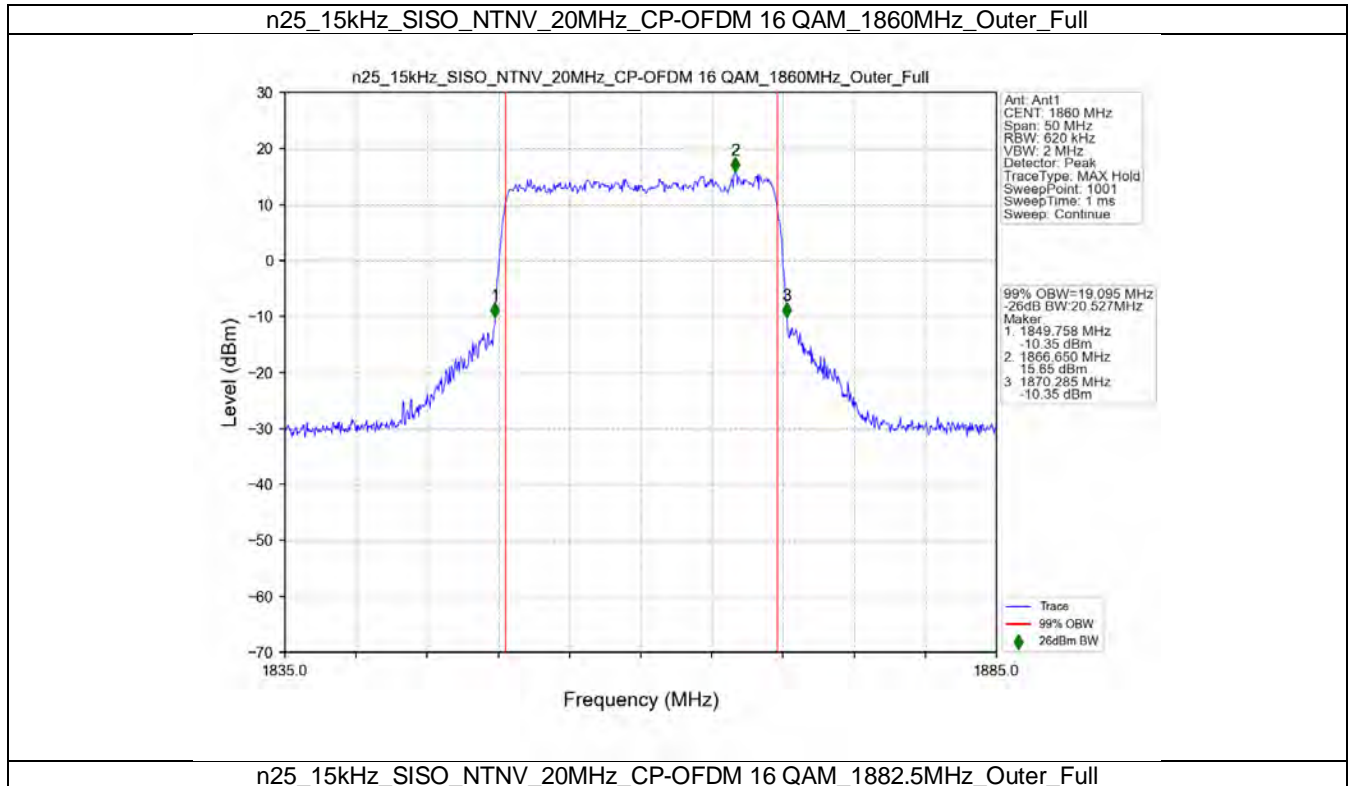


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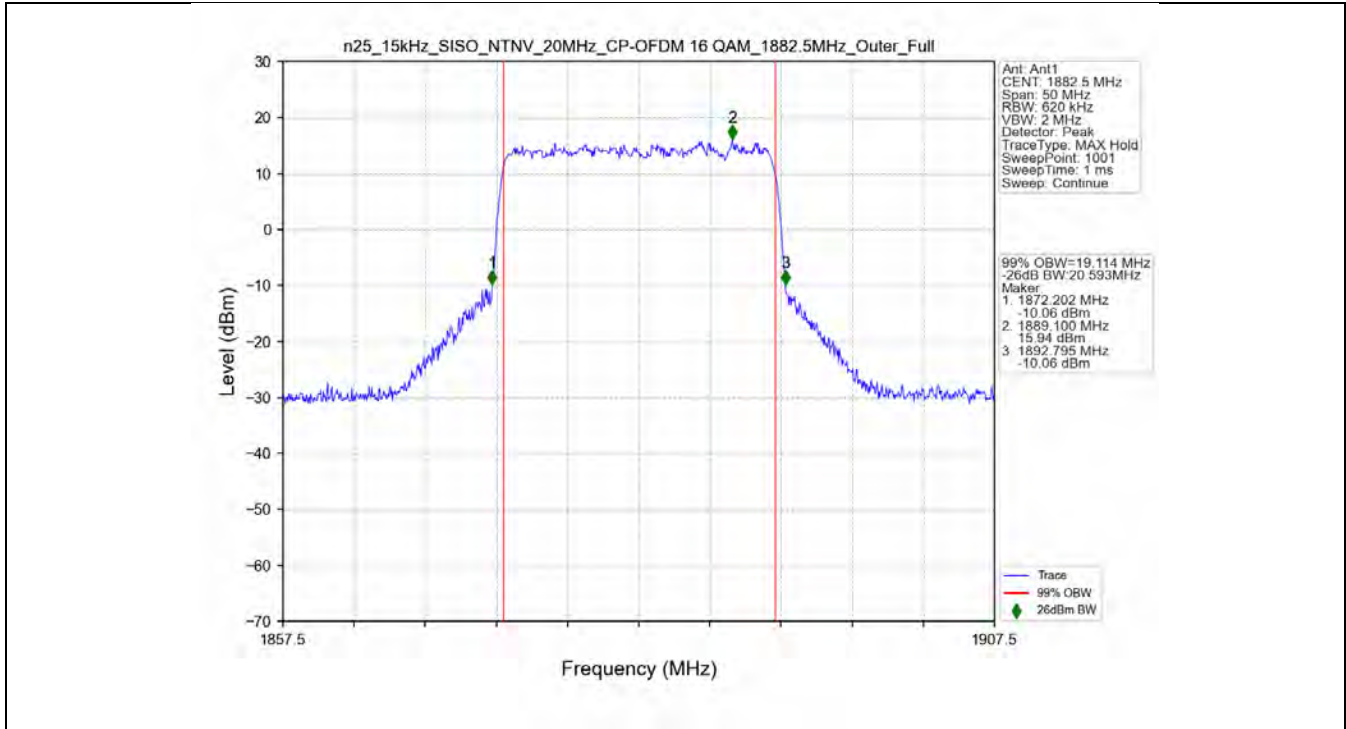


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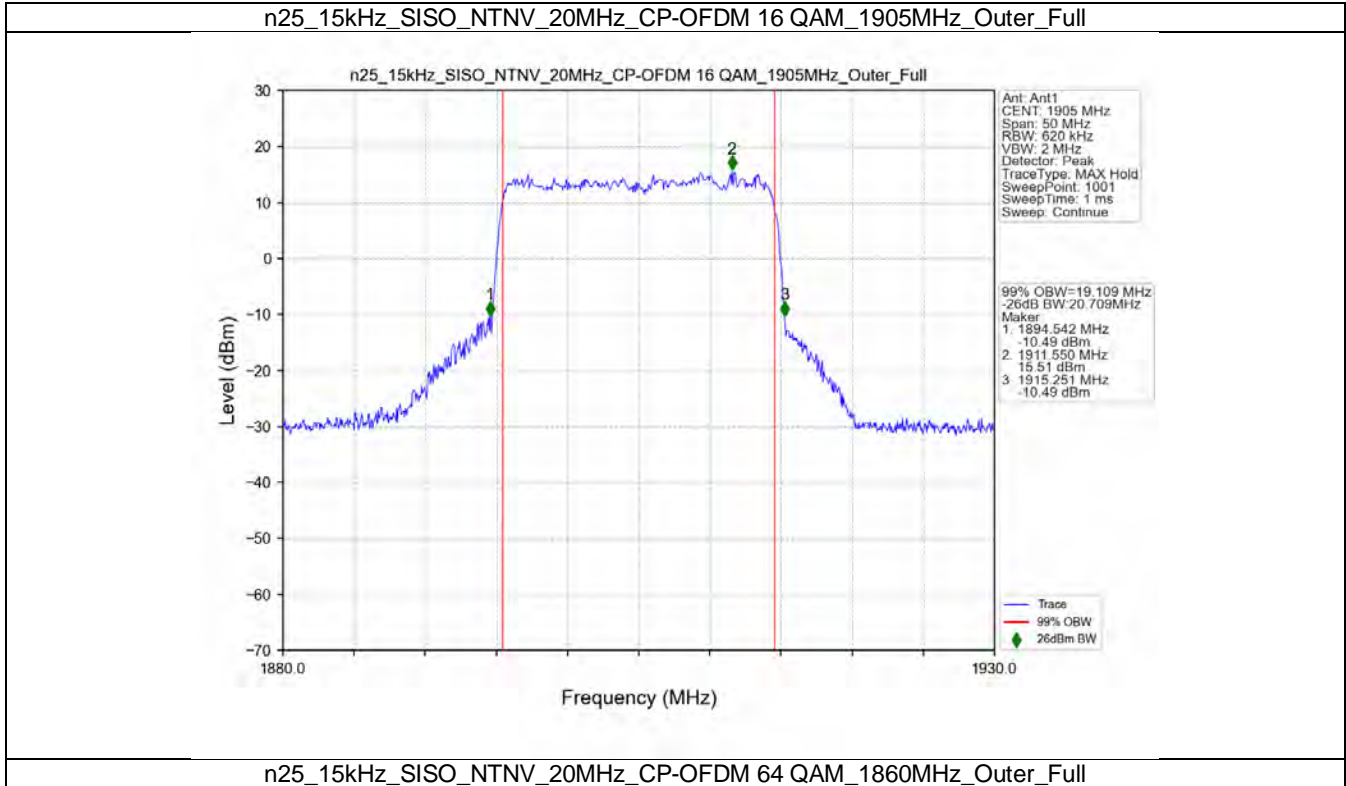


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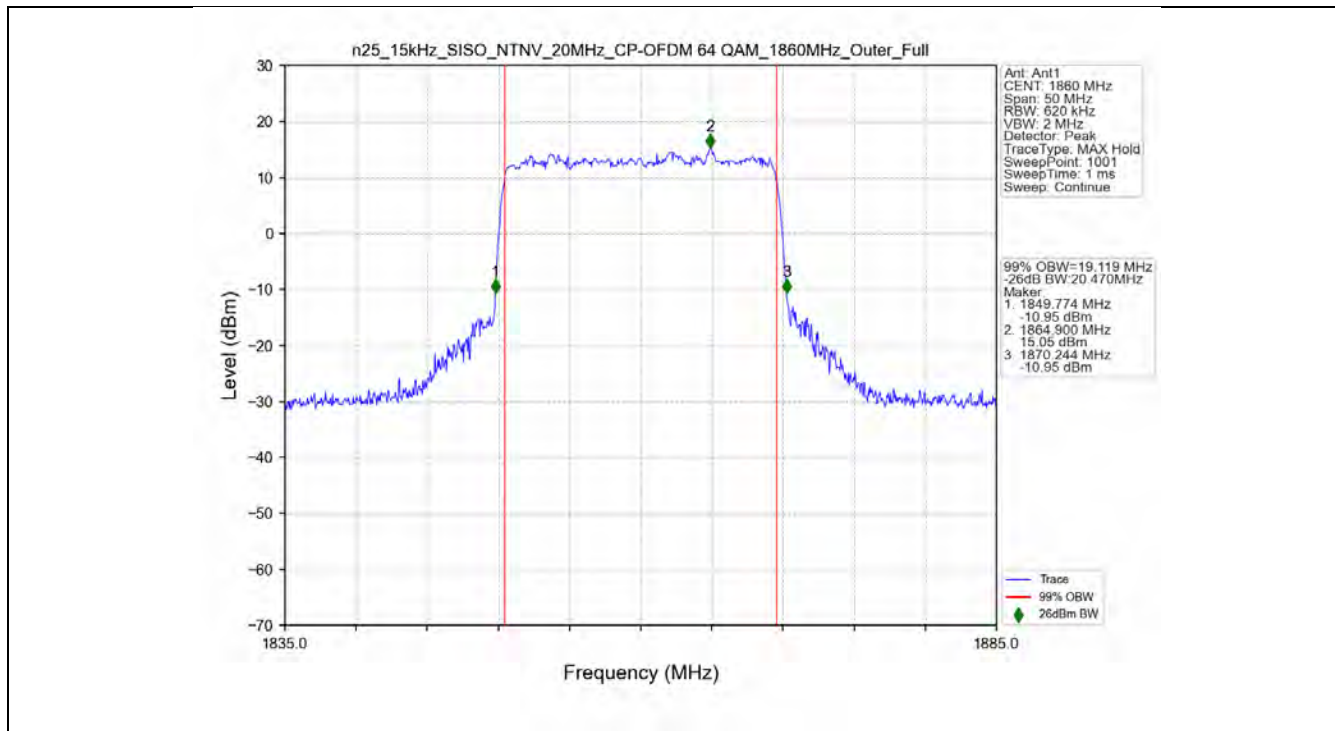
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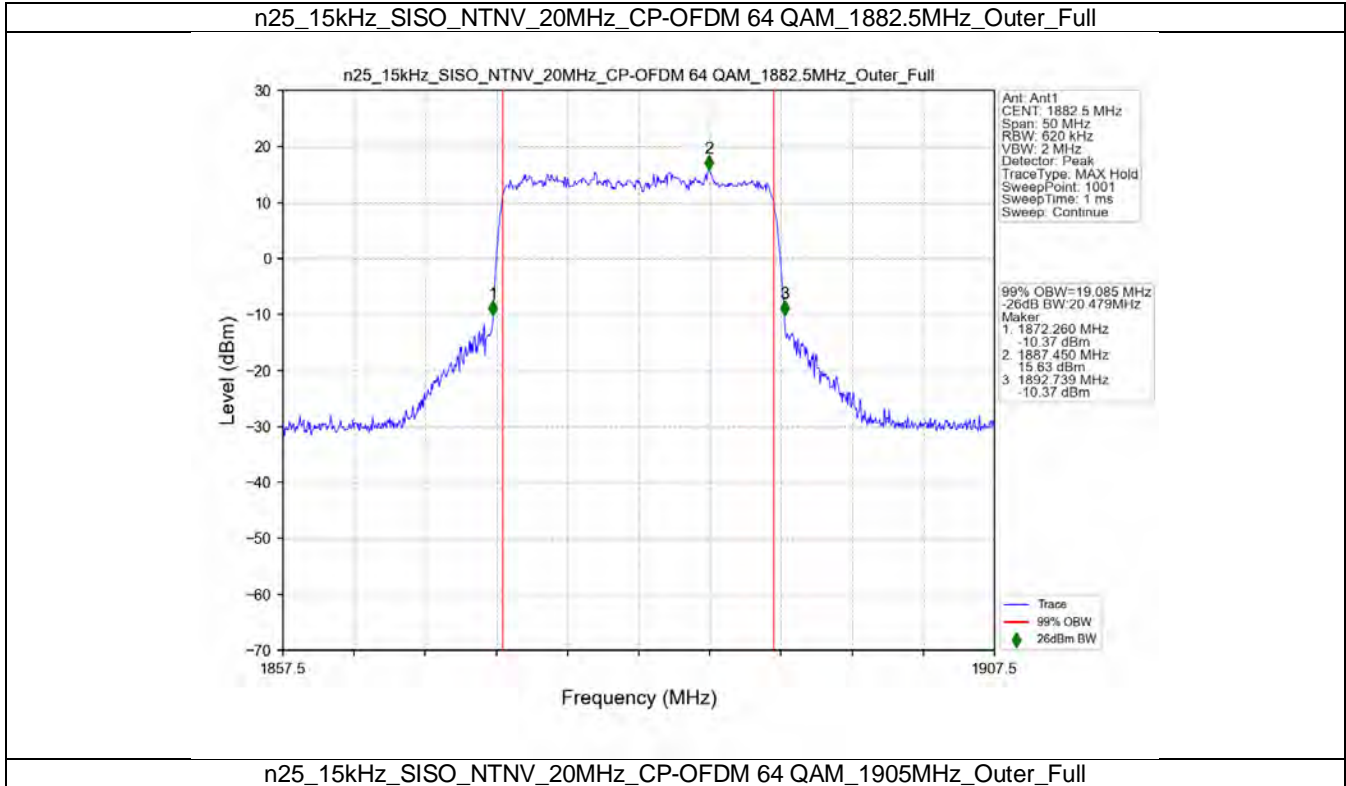


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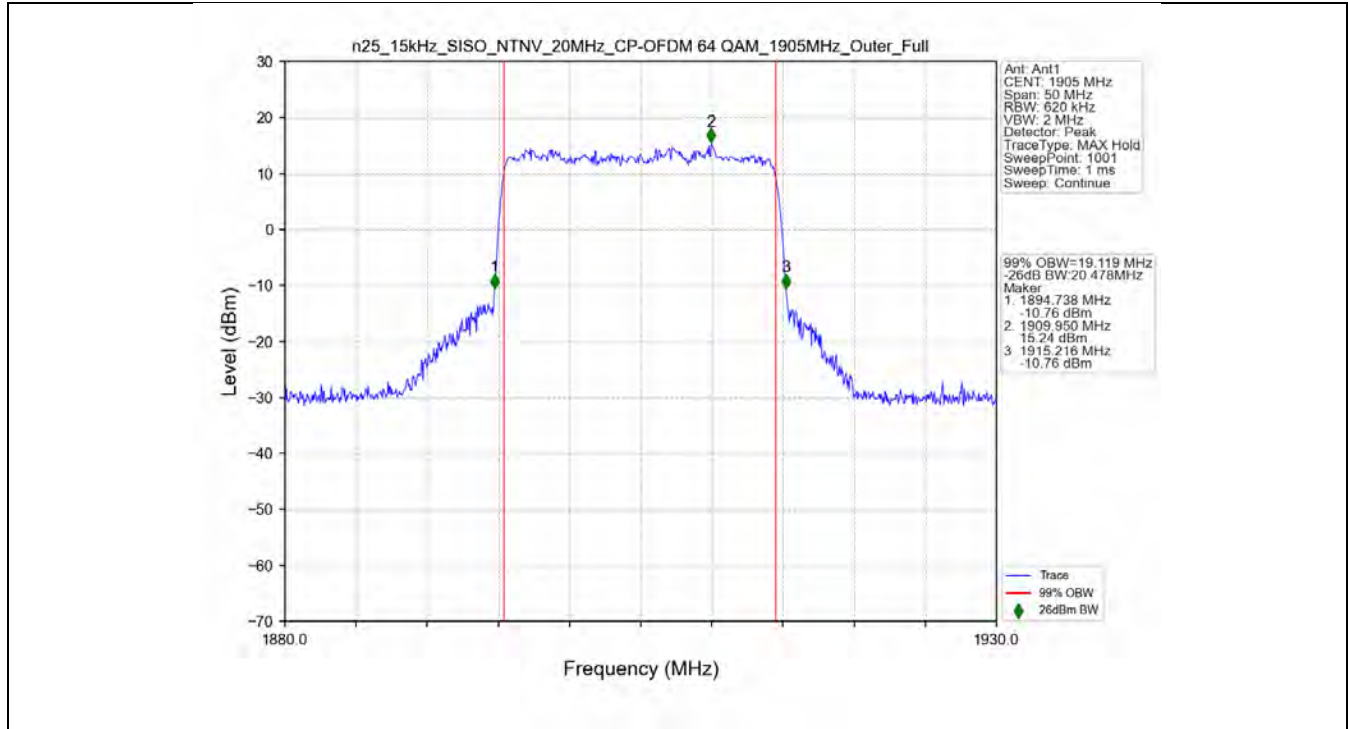


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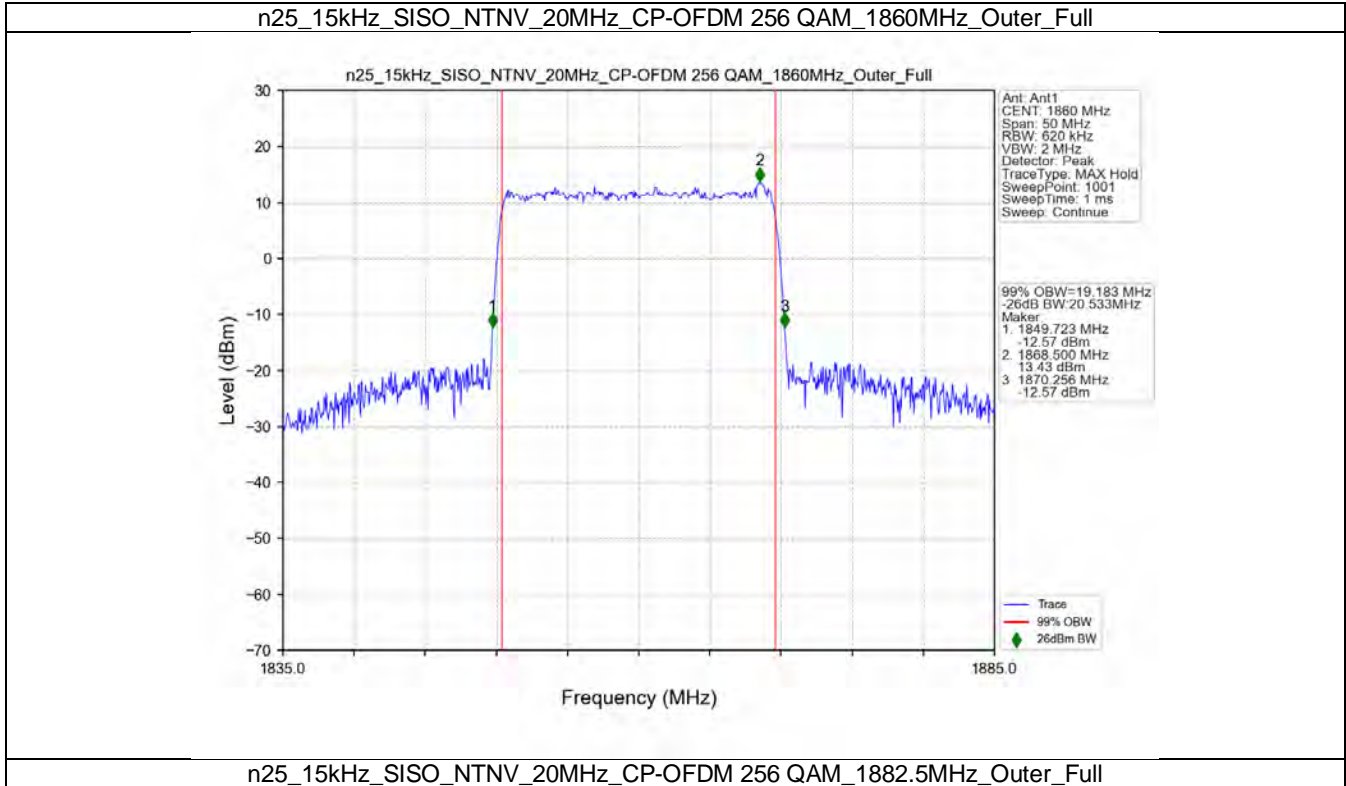


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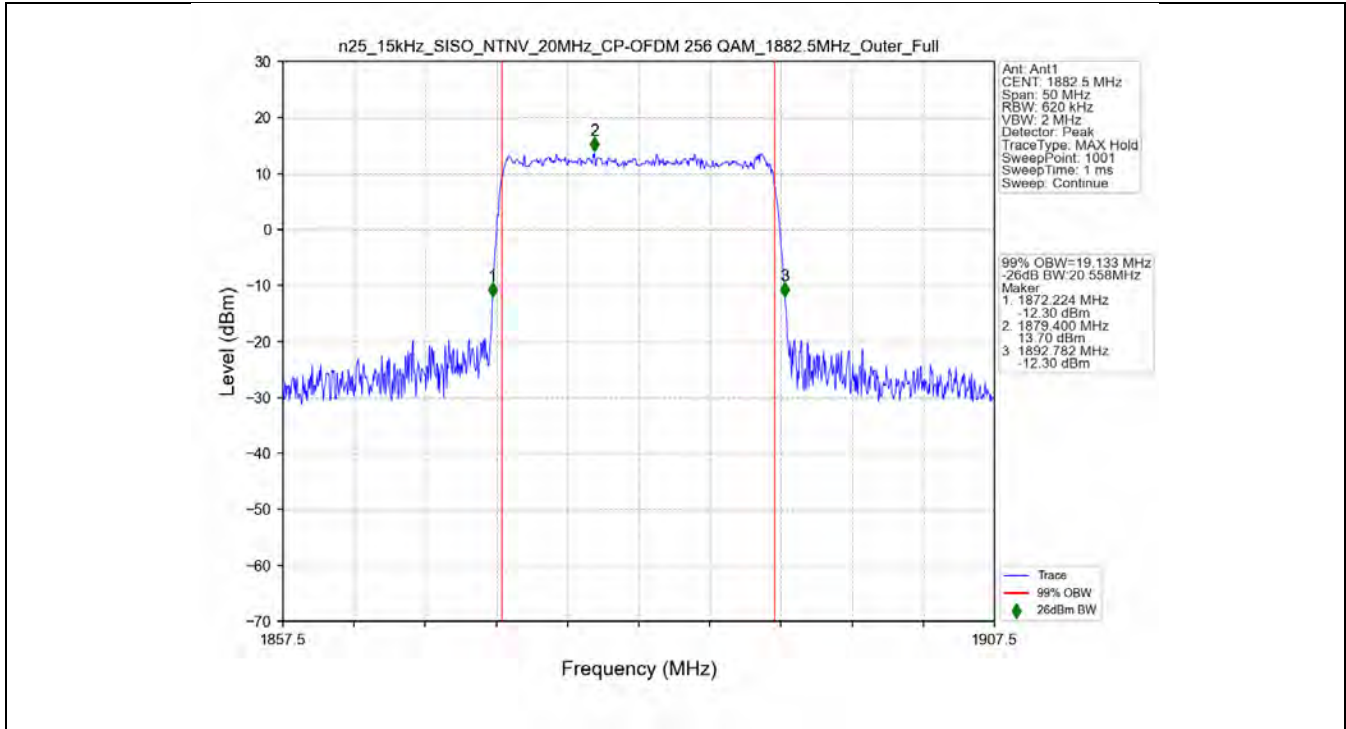


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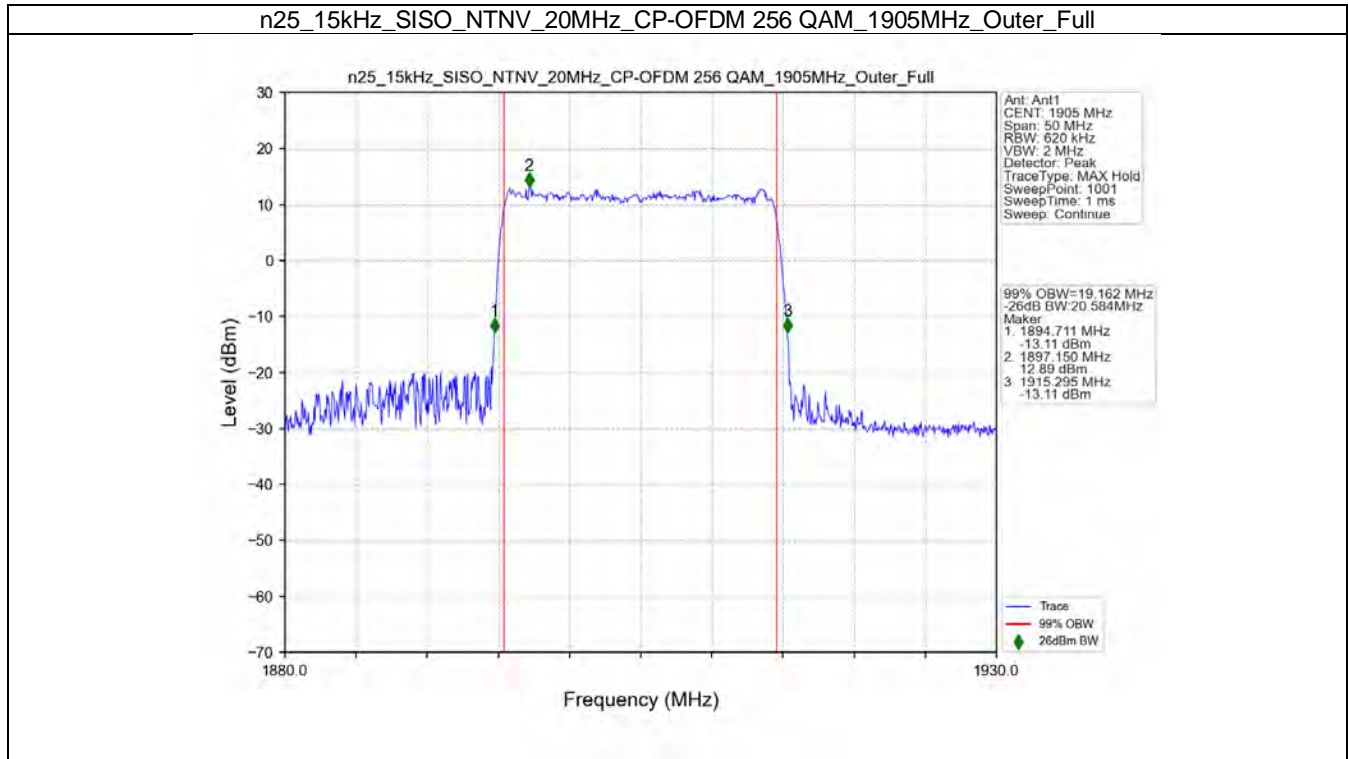


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4. Peak-Average Ratio

4.1 15k_SISO_5MHz_NTNV

4.1.1 Test Result

5G NR n25 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	1852.5	Outer_Full	4.17	/	/	<=13	Pass
	1882.5	Outer_Full	4.20	/	/	<=13	Pass
	1912.5	Outer_Full	3.91	/	/	<=13	Pass
DFT-s-OFDM QPSK	1852.5	Outer_Full	4.59	/	/	<=13	Pass
	1882.5	Outer_Full	4.56	/	/	<=13	Pass
	1912.5	Outer_Full	4.40	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	1852.5	Outer_Full	5.79	/	/	<=13	Pass
	1882.5	Outer_Full	5.74	/	/	<=13	Pass
	1912.5	Outer_Full	5.60	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	1852.5	Outer_Full	6.21	/	/	<=13	Pass
	1882.5	Outer_Full	6.20	/	/	<=13	Pass
	1912.5	Outer_Full	6.06	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	1852.5	Outer_Full	6.38	/	/	<=13	Pass
	1882.5	Outer_Full	6.38	/	/	<=13	Pass
	1912.5	Outer_Full	6.37	/	/	<=13	Pass
CP-OFDM QPSK	1852.5	Outer_Full	6.93	/	/	<=13	Pass
	1882.5	Outer_Full	6.82	/	/	<=13	Pass
	1912.5	Outer_Full	6.53	/	/	<=13	Pass
CP-OFDM 16 QAM	1852.5	Outer_Full	6.85	/	/	<=13	Pass
	1882.5	Outer_Full	6.81	/	/	<=13	Pass
	1912.5	Outer_Full	6.77	/	/	<=13	Pass
CP-OFDM 64 QAM	1852.5	Outer_Full	7.40	/	/	<=13	Pass
	1882.5	Outer_Full	7.33	/	/	<=13	Pass
	1912.5	Outer_Full	7.31	/	/	<=13	Pass
CP-OFDM 256 QAM	1852.5	Outer_Full	8.44	/	/	<=13	Pass
	1882.5	Outer_Full	8.41	/	/	<=13	Pass
	1912.5	Outer_Full	8.37	/	/	<=13	Pass



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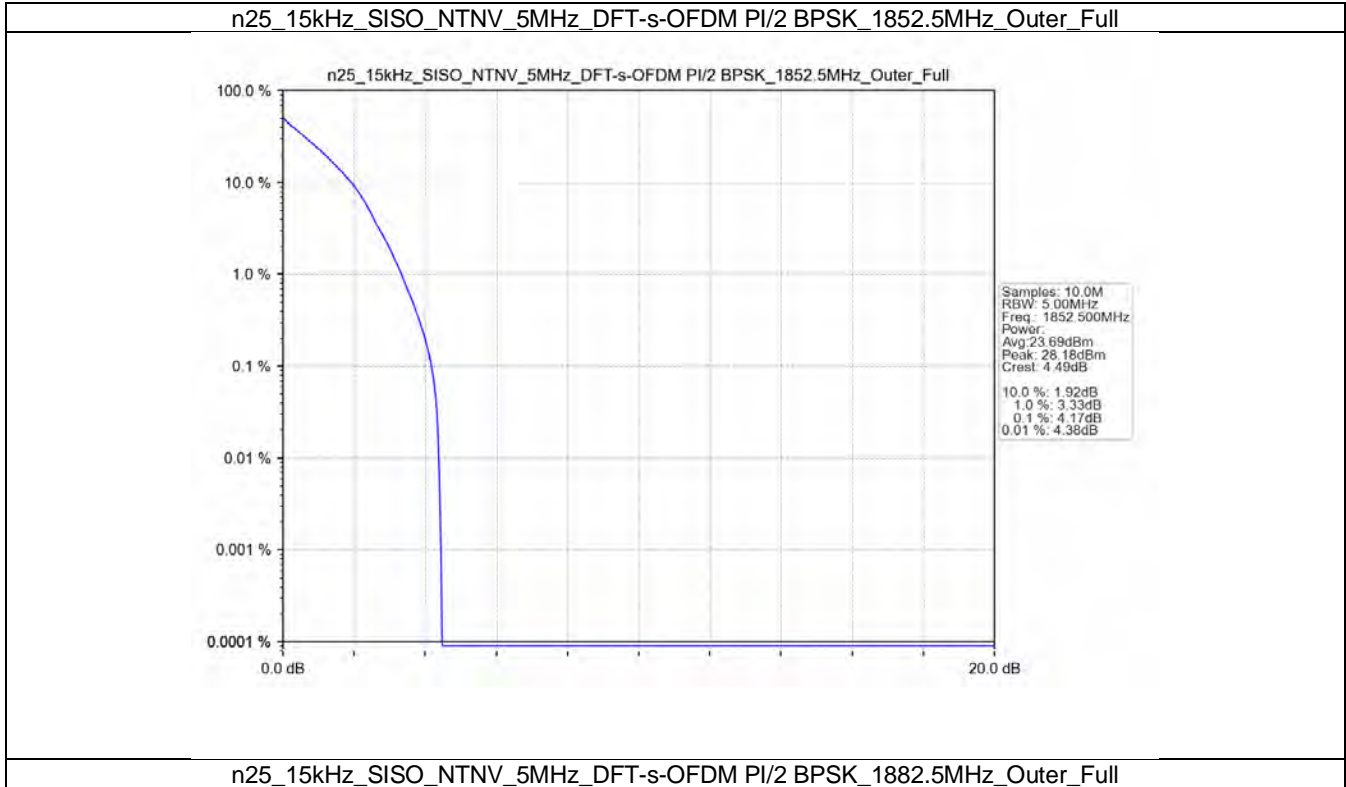
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4.1.2 Test Graph



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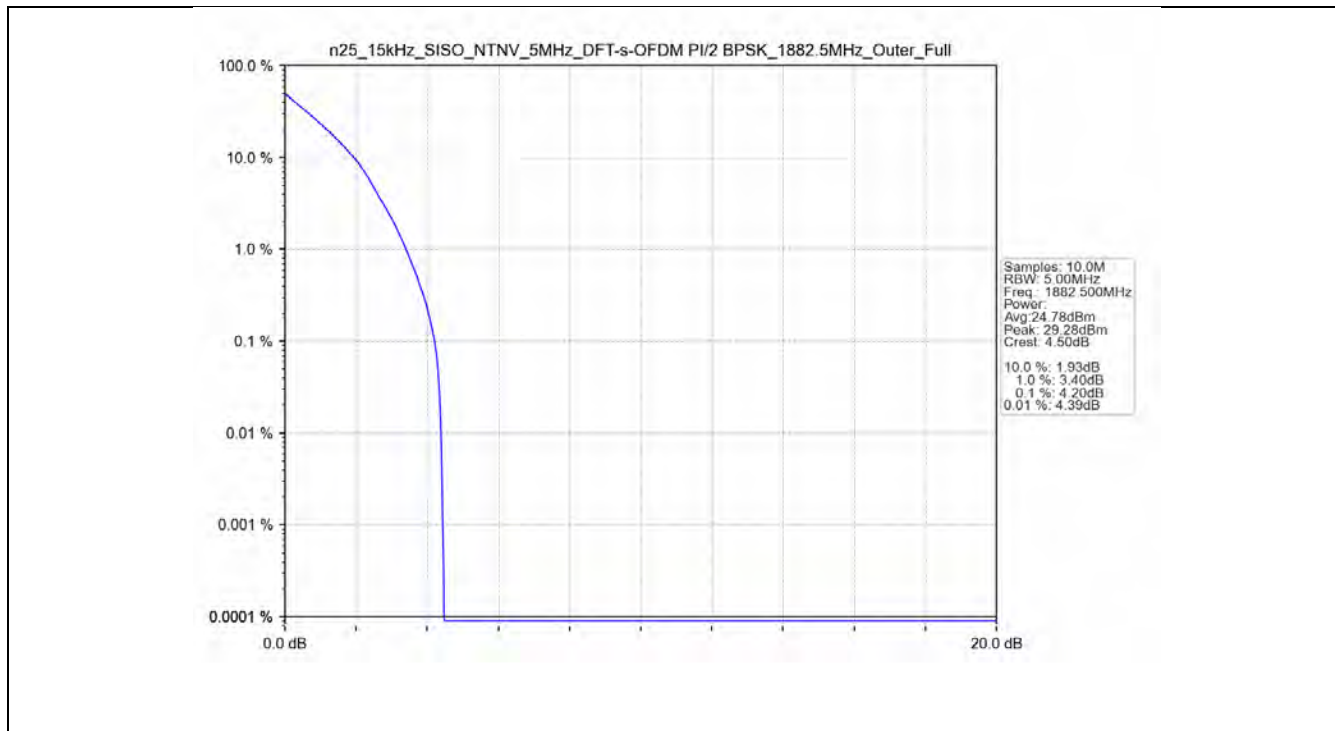
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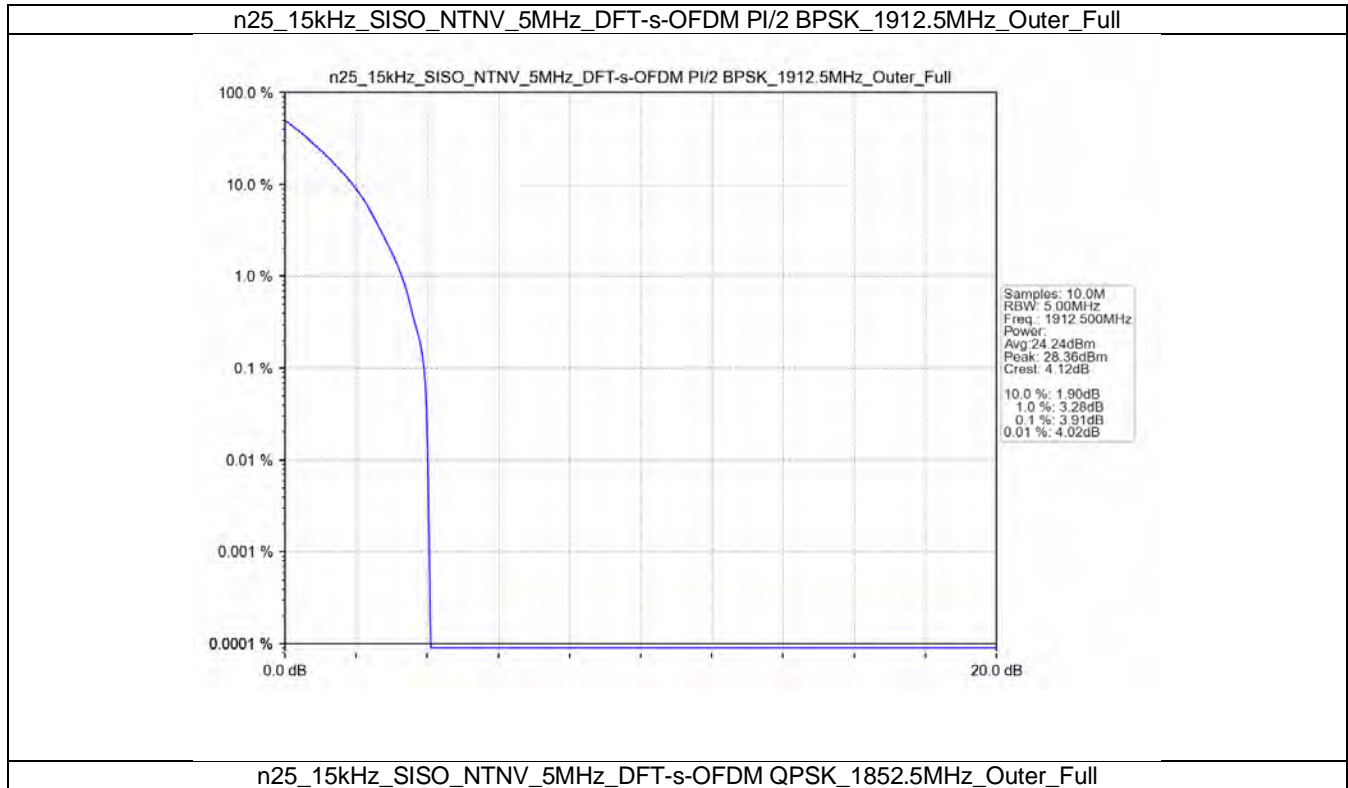


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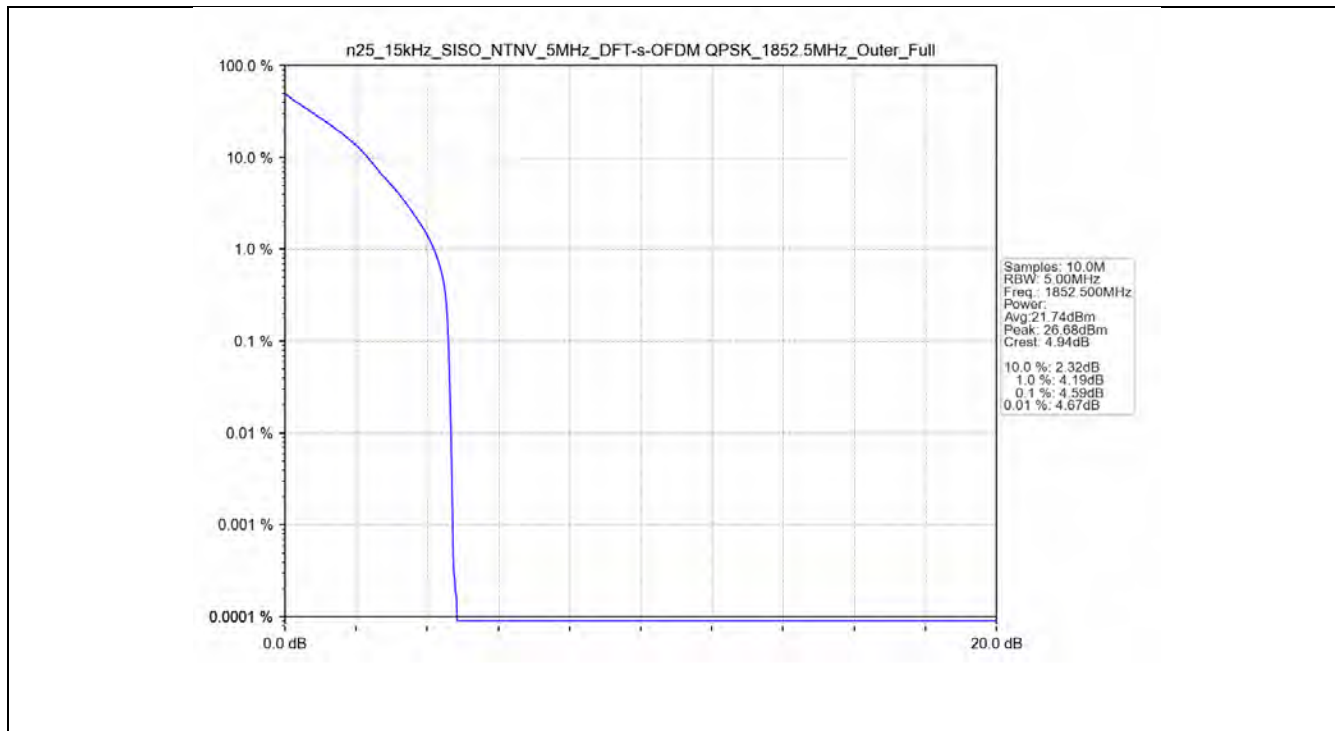
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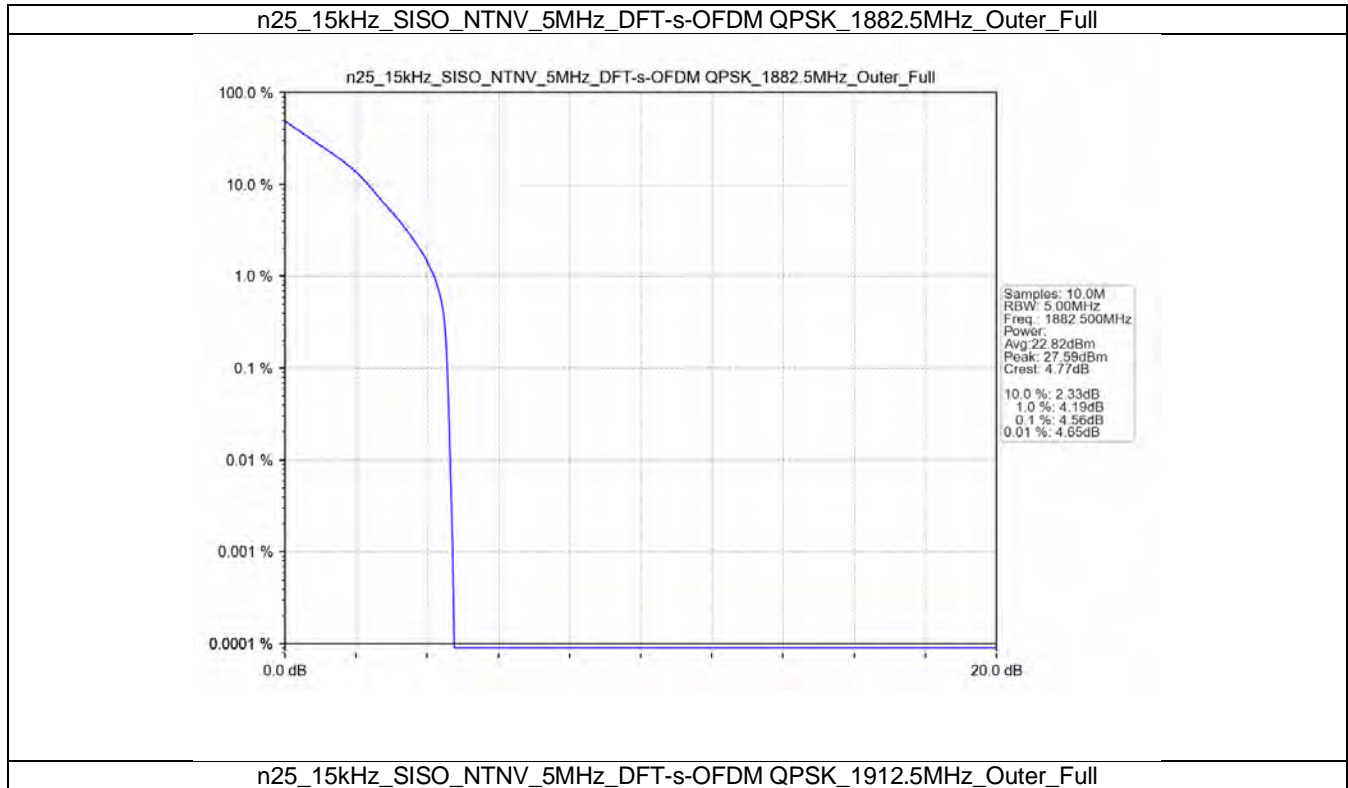


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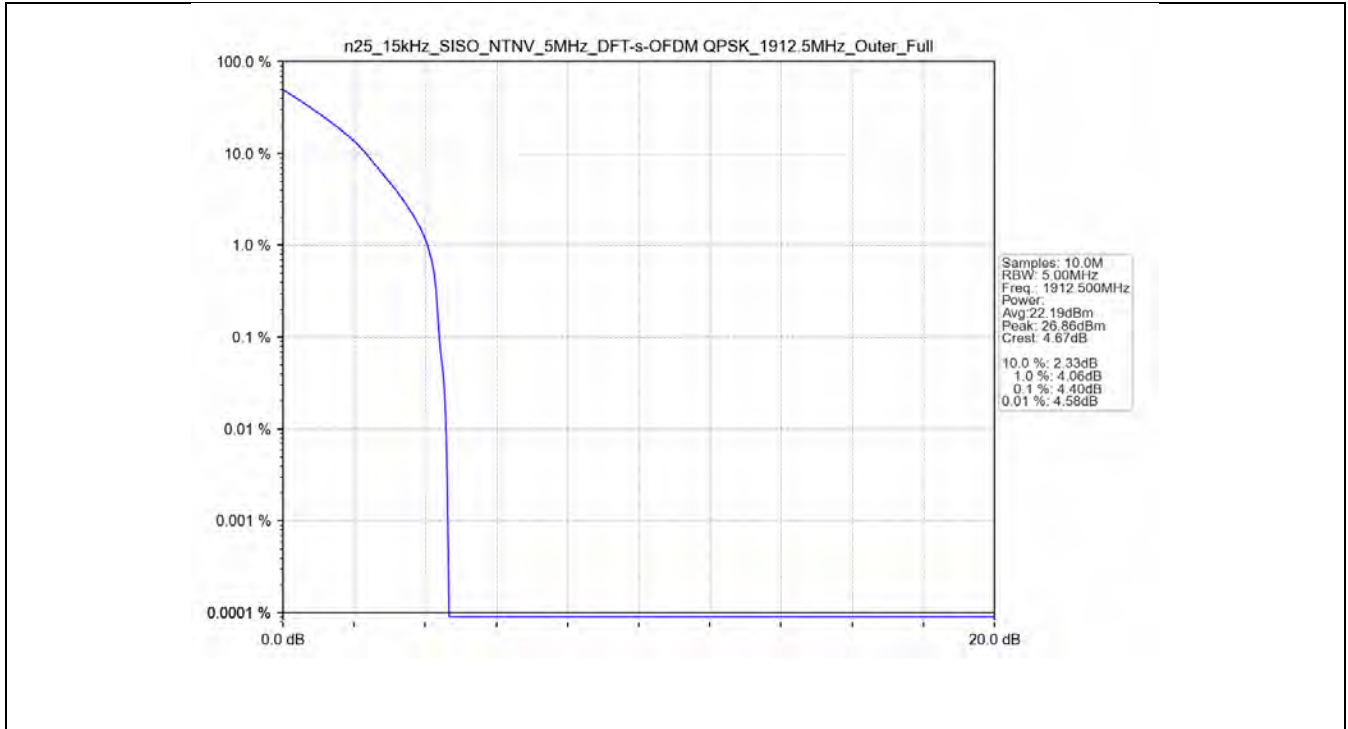


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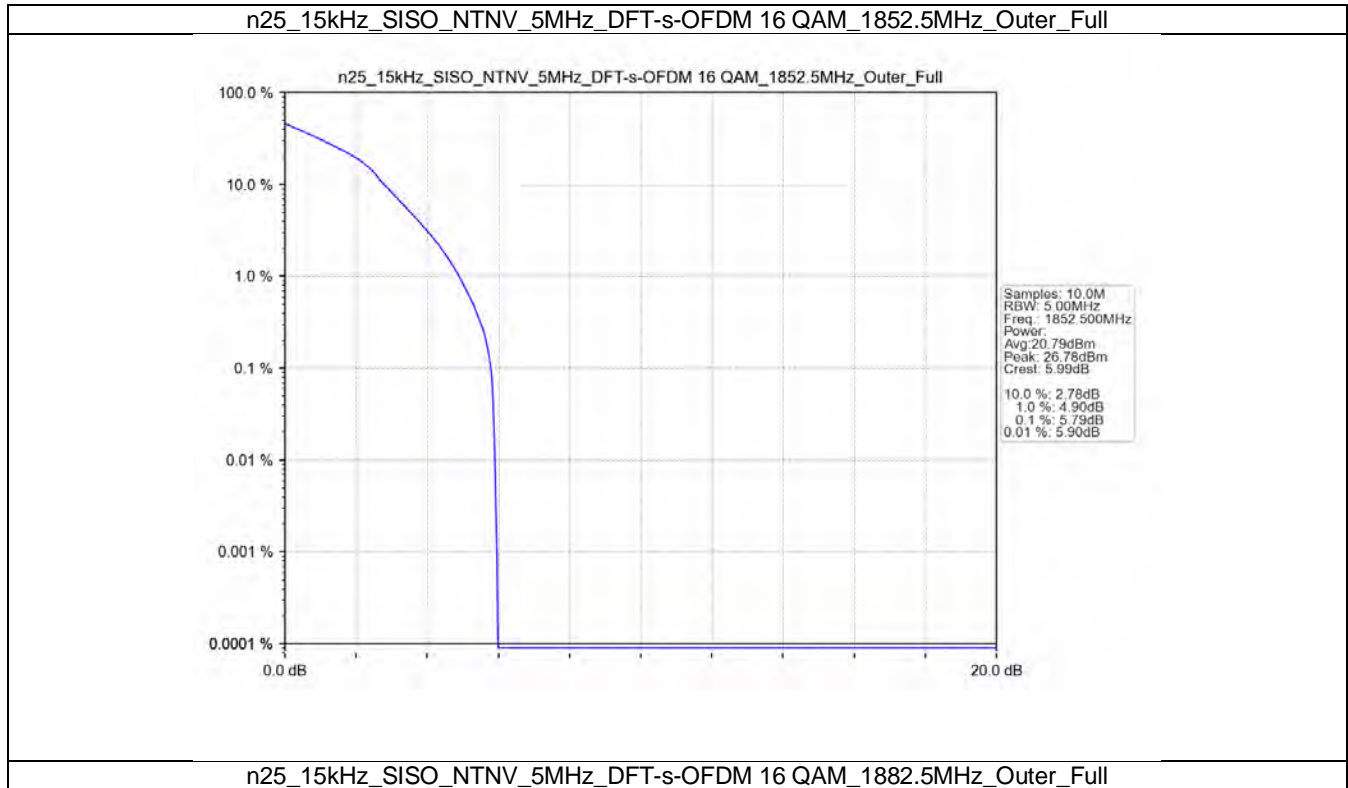


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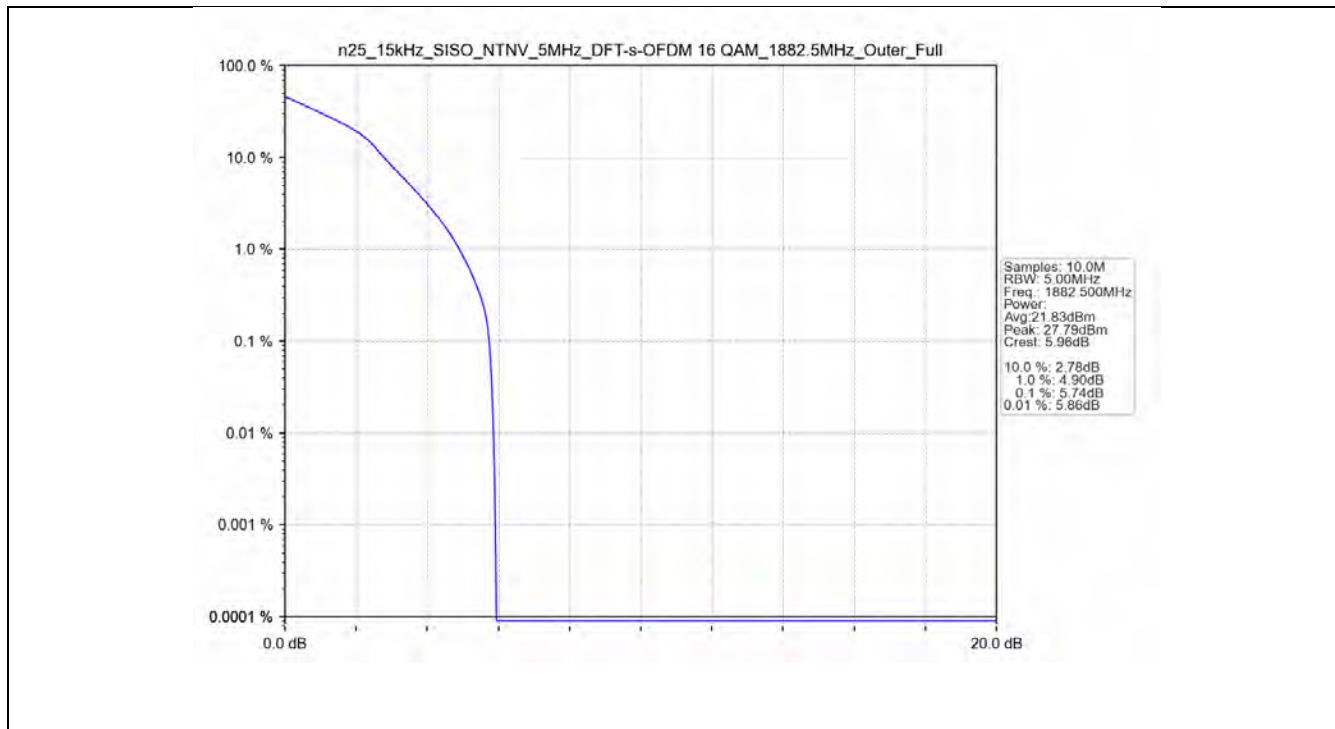
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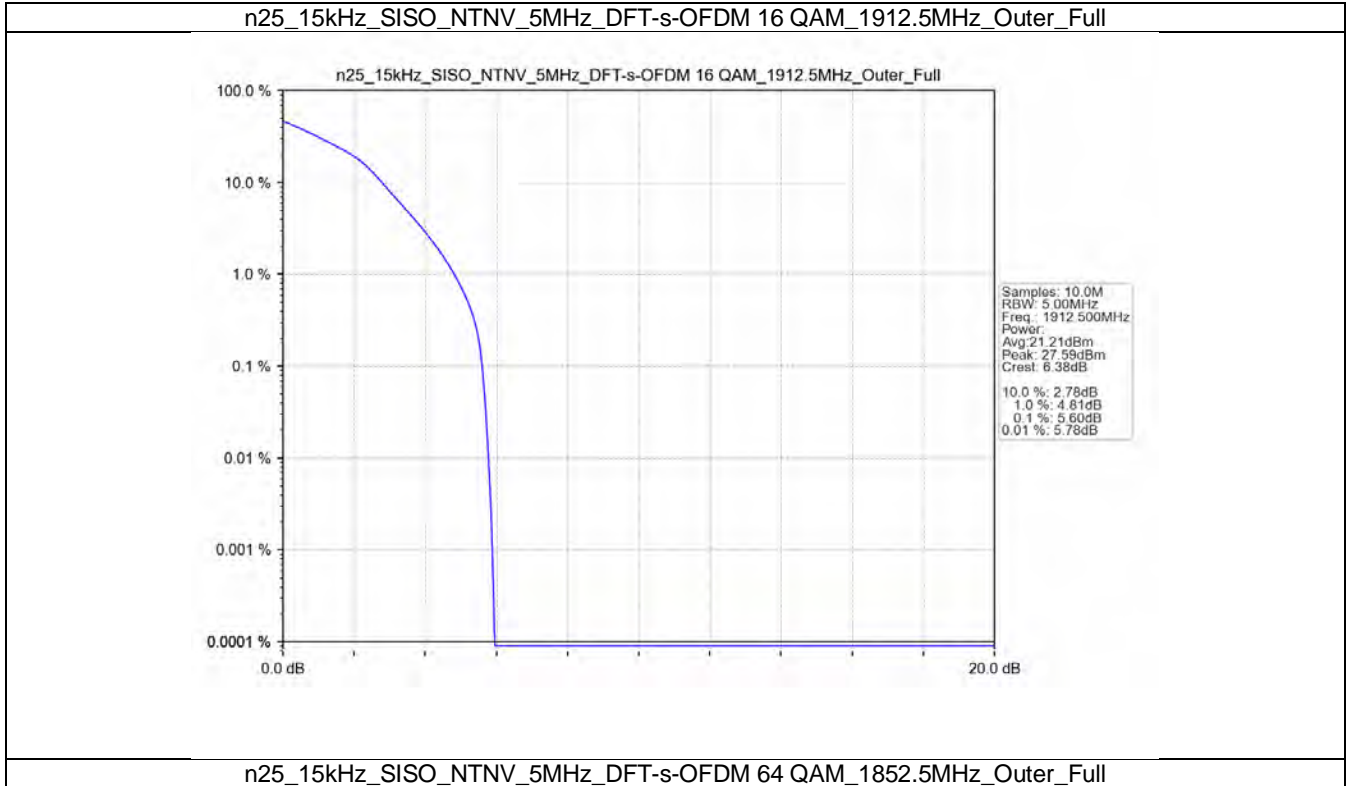


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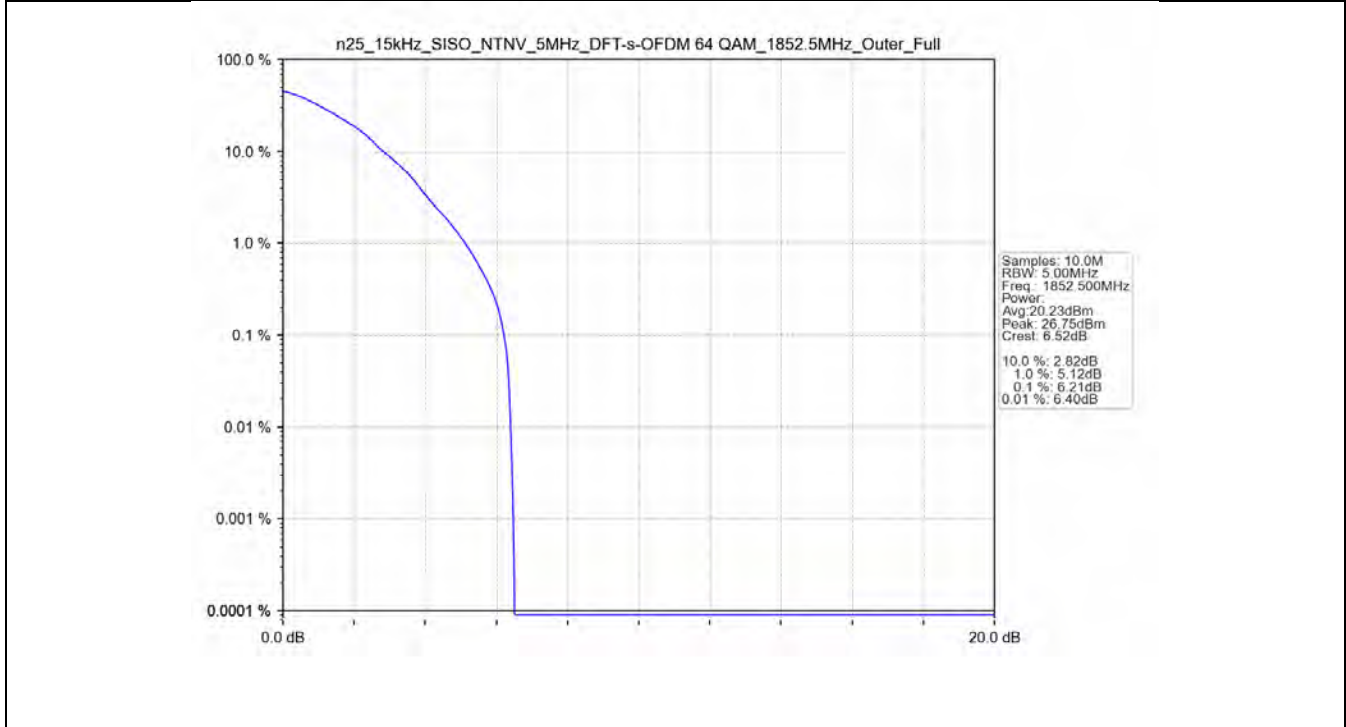
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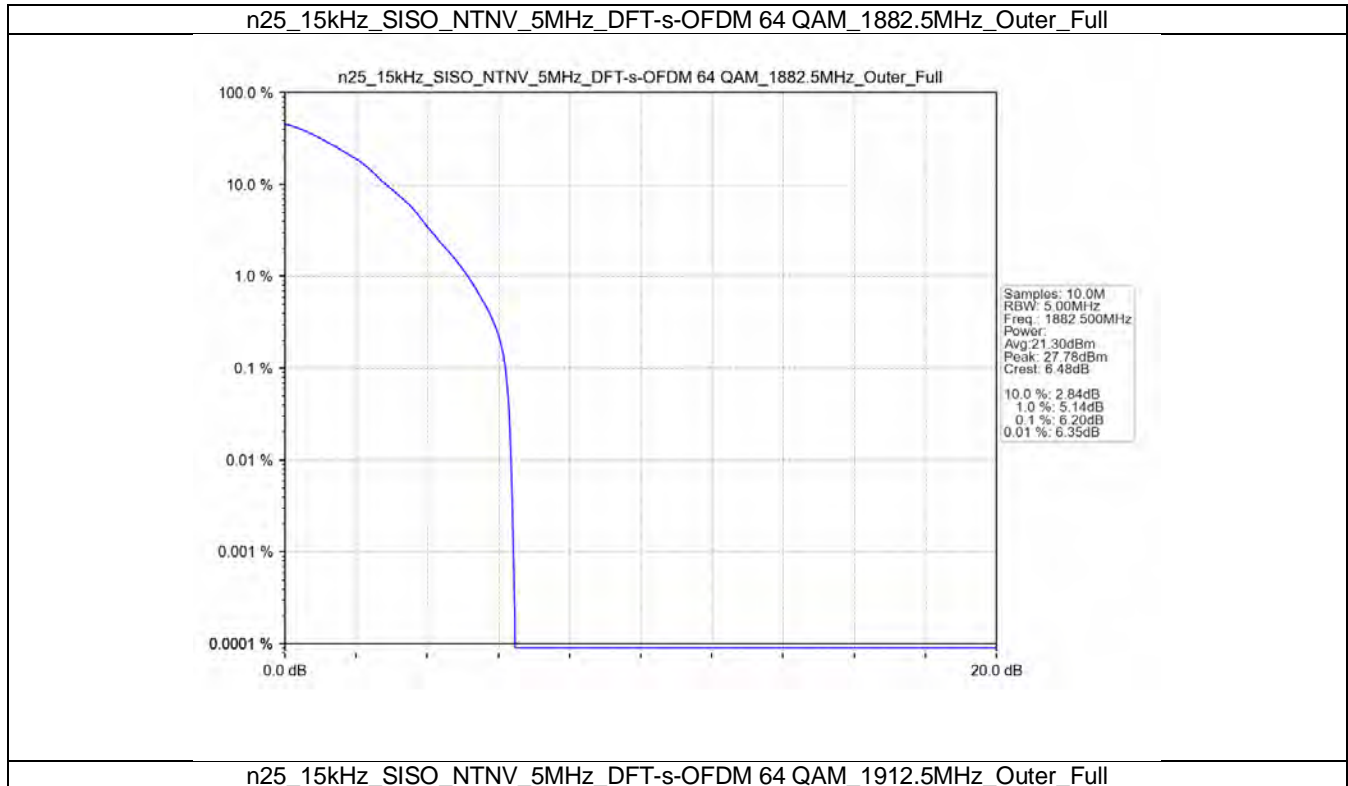


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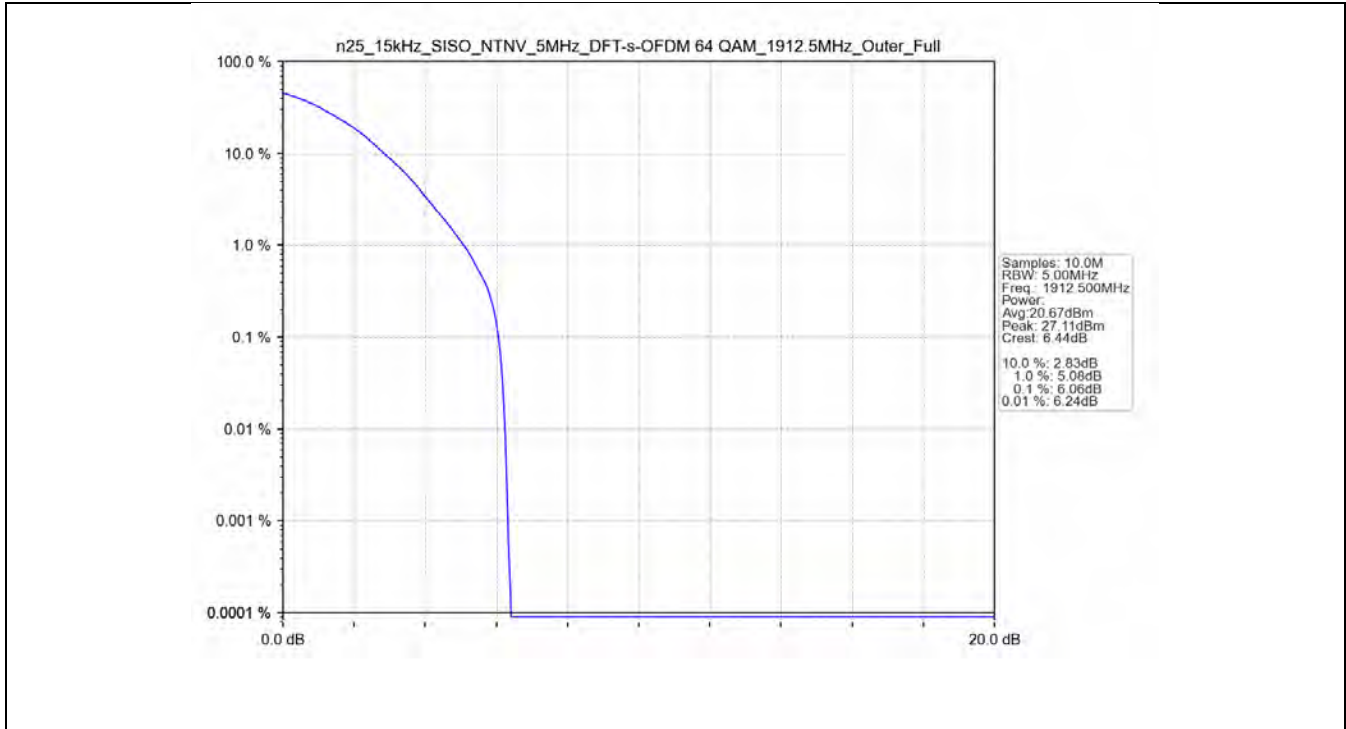
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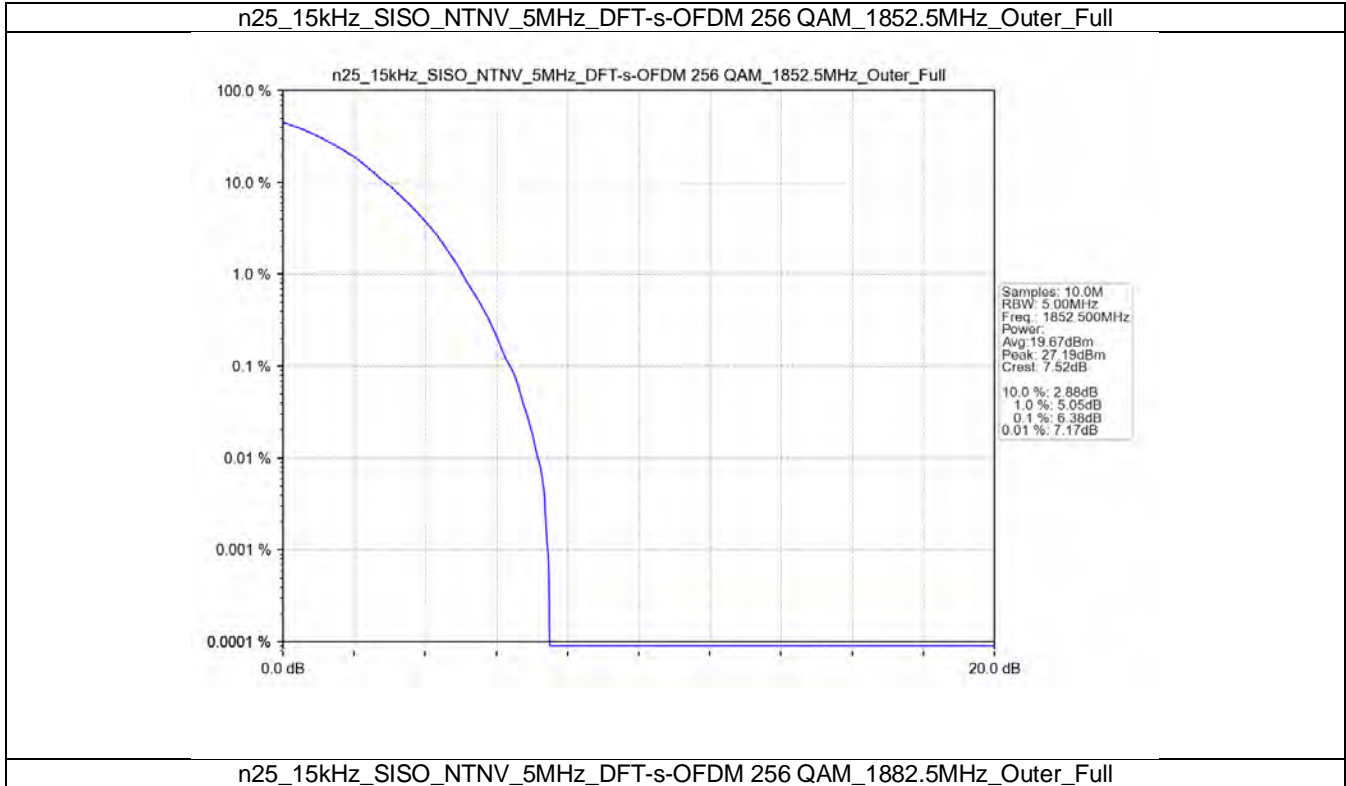


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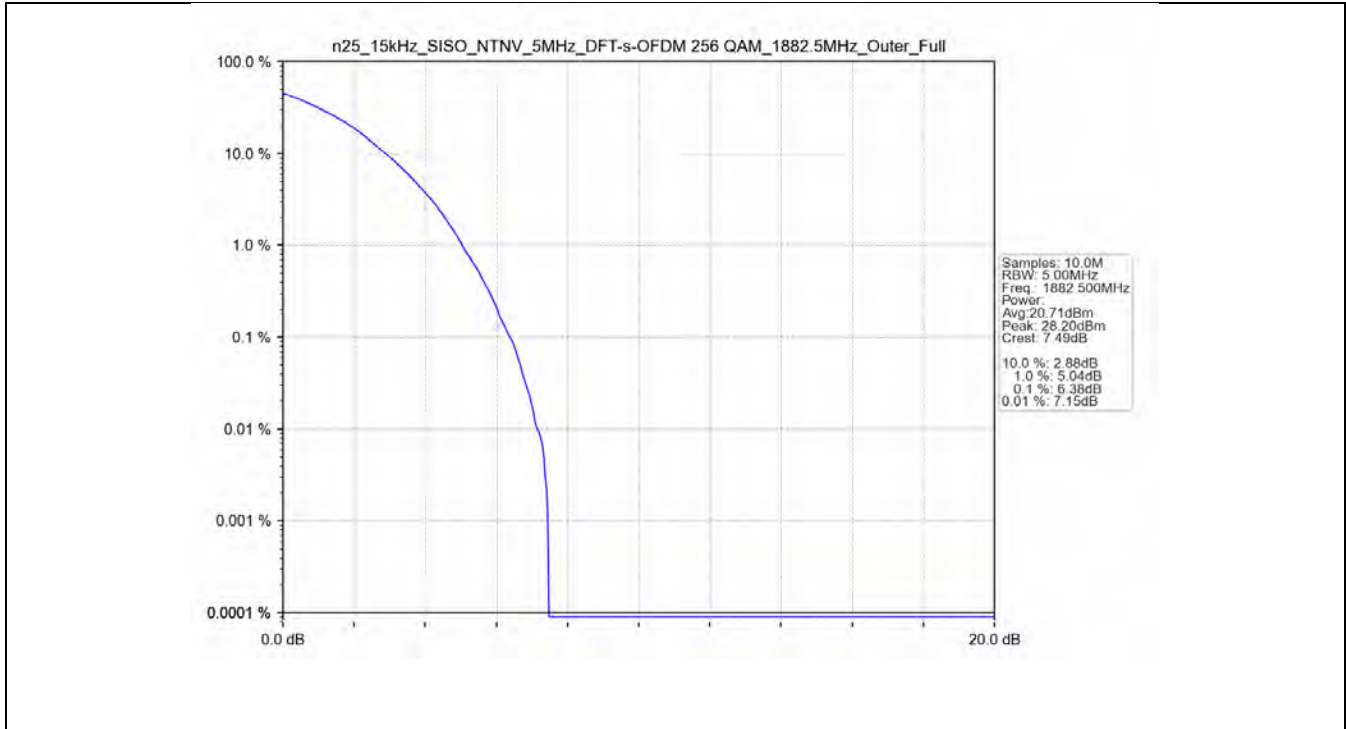


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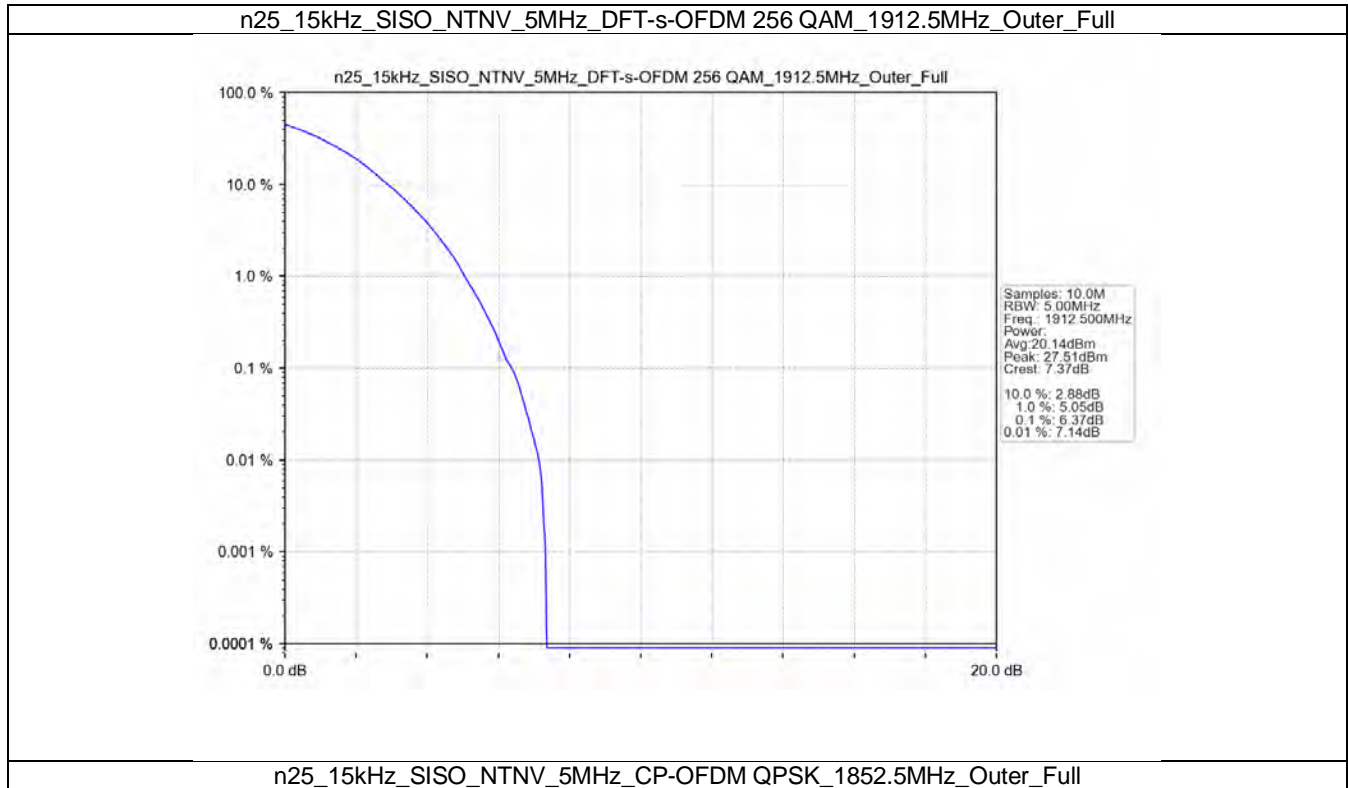


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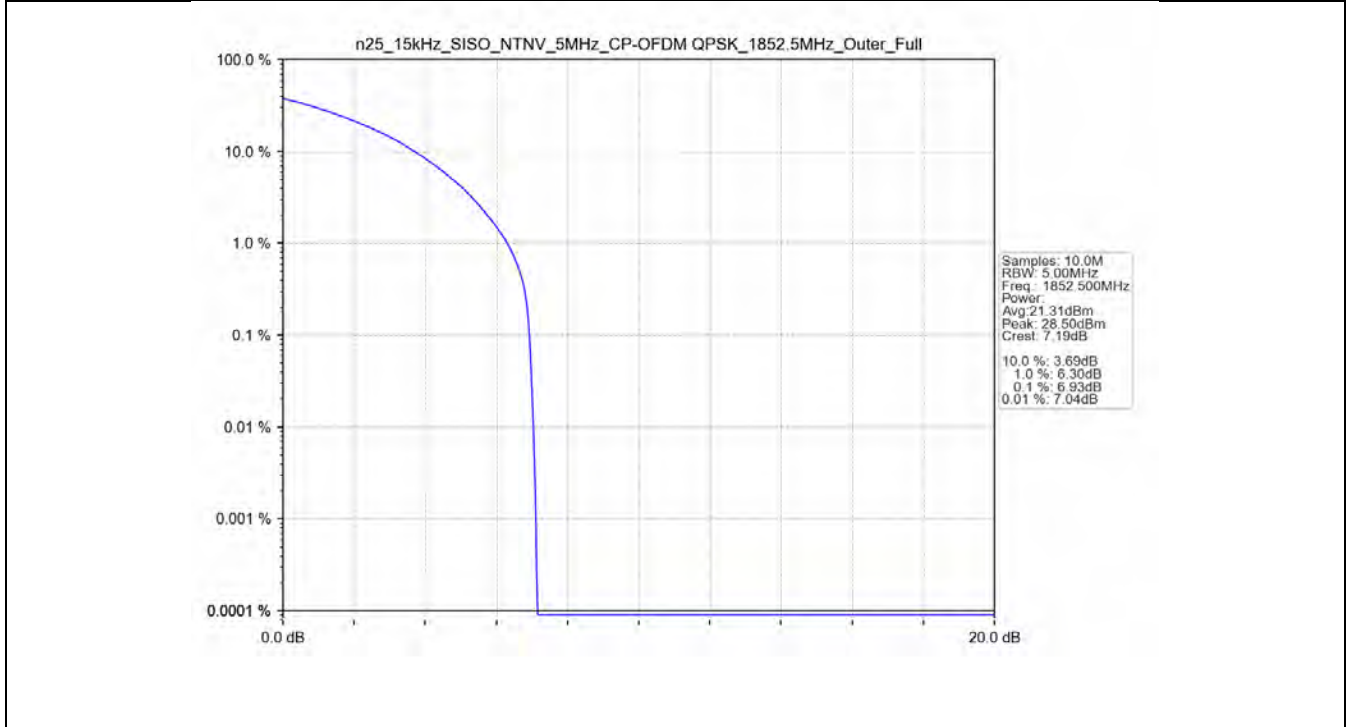
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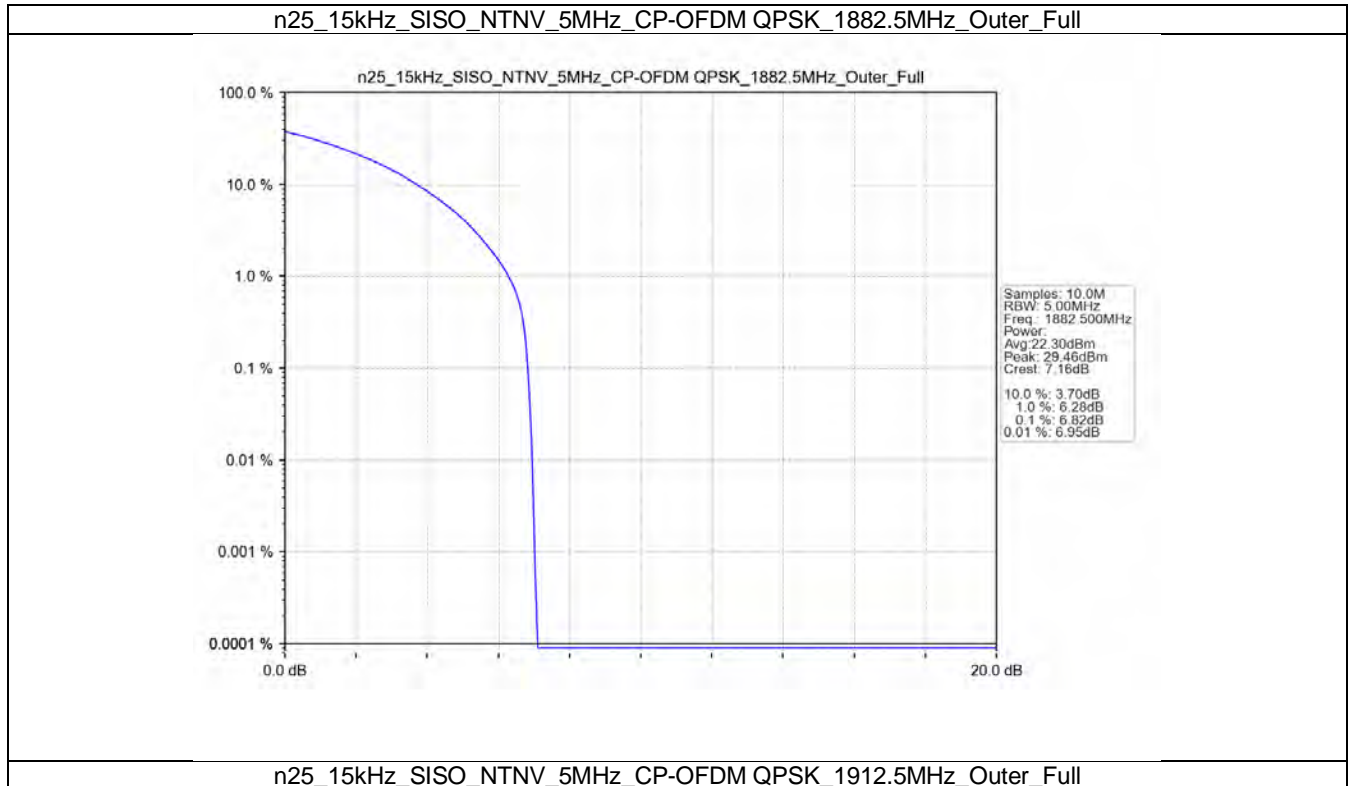


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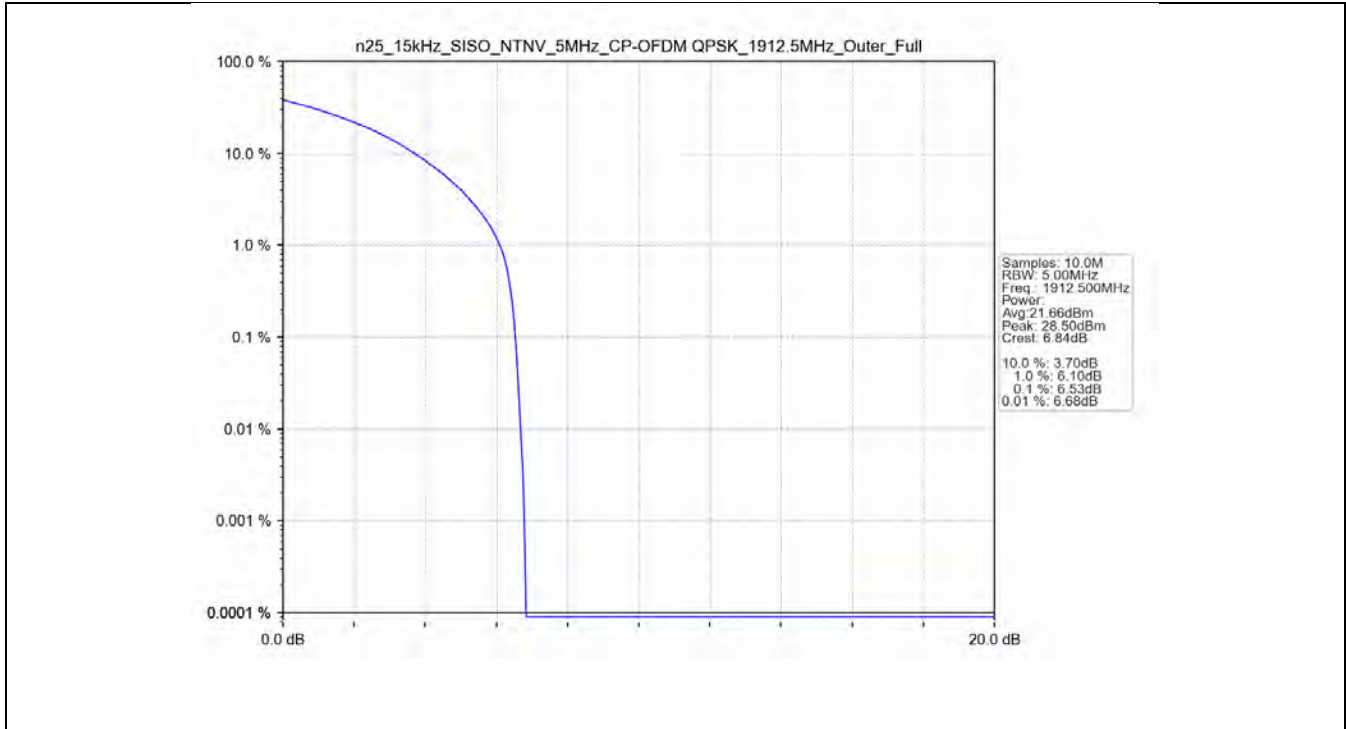


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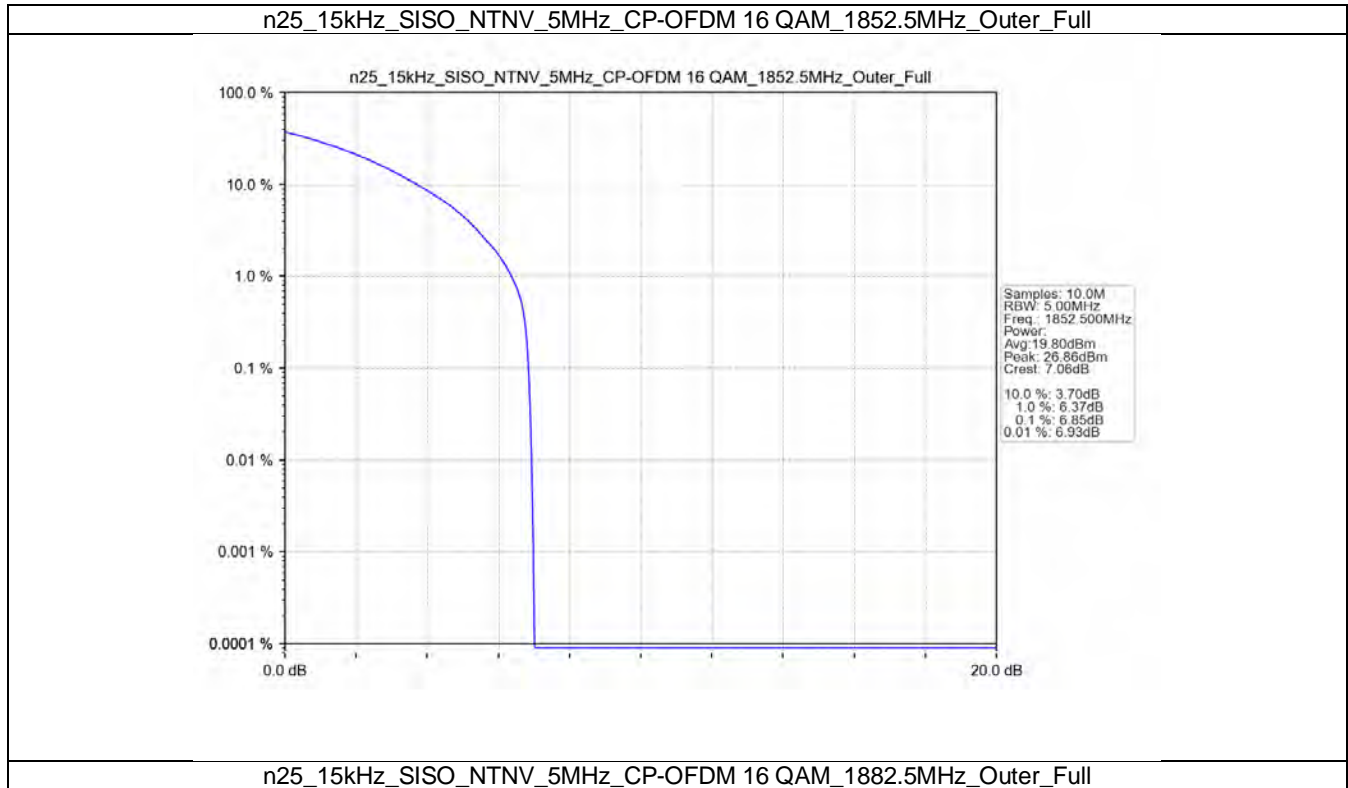


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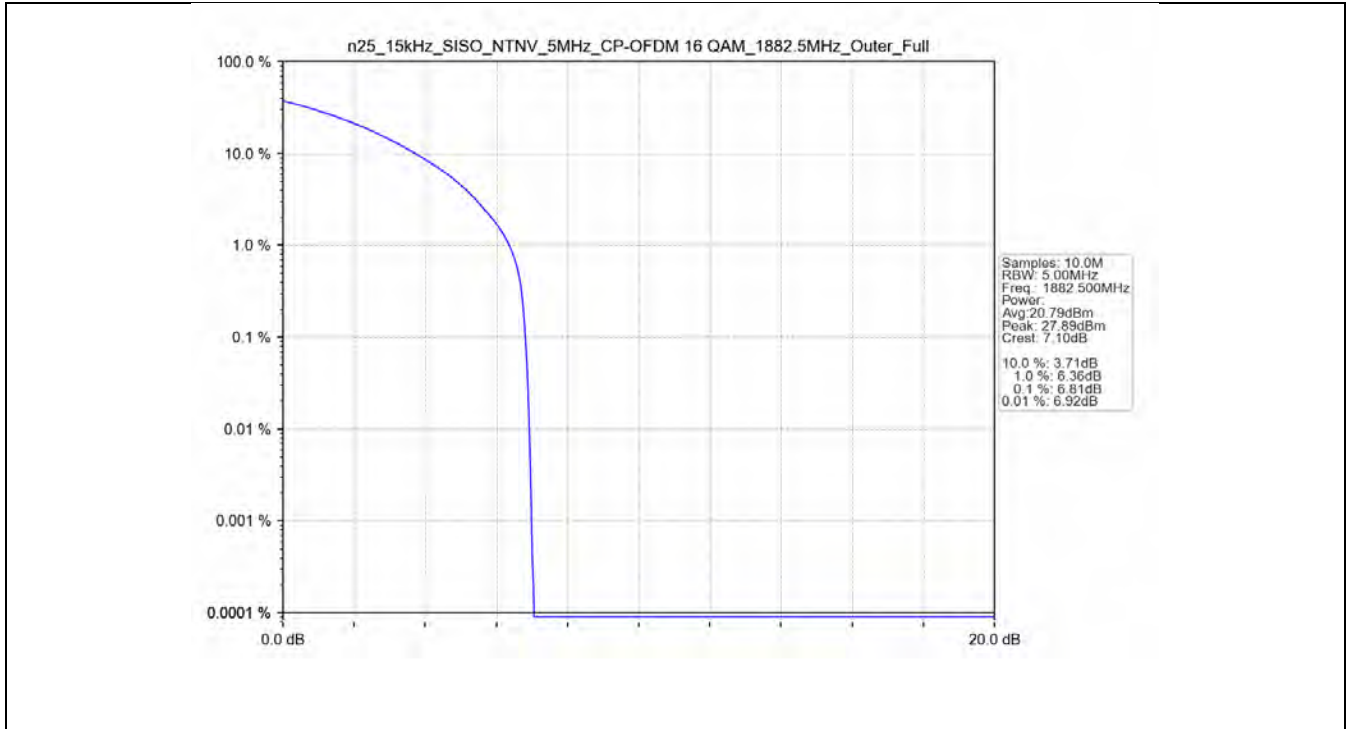
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