

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 30k_SISO_20MHz_NTNV_EIRP

5G NR n38 SCS=30kHz SISO 20MHz NTN										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			EIRP(dBm)				Verdict
			Ant2	Ant2*	Sum	Ant2	Ant2*	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2580	Edge_1RB_Left	24.52	/	/	23.42	/	/	<=33	Pass
		Edge_1RB_Right	24.51	/	/	23.41	/	/	<=33	Pass
		Outer_Full	24.56	/	/	23.46	/	/	<=33	Pass
		Inner_Full	24.52	/	/	23.42	/	/	<=33	Pass
		Inner_1RB_Left	24.57	/	/	23.47	/	/	<=33	Pass
		Inner_1RB_Right	24.48	/	/	23.38	/	/	<=33	Pass
	2595	Edge_1RB_Left	24.40	/	/	23.30	/	/	<=33	Pass
		Edge_1RB_Right	24.36	/	/	23.26	/	/	<=33	Pass
		Outer_Full	24.37	/	/	23.27	/	/	<=33	Pass
		Inner_Full	24.37	/	/	23.27	/	/	<=33	Pass
		Inner_1RB_Left	24.31	/	/	23.21	/	/	<=33	Pass
		Inner_1RB_Right	24.29	/	/	23.19	/	/	<=33	Pass
	2610	Edge_1RB_Left	24.39	/	/	23.29	/	/	<=33	Pass
		Edge_1RB_Right	24.50	/	/	23.40	/	/	<=33	Pass
		Outer_Full	24.38	/	/	23.28	/	/	<=33	Pass
		Inner_Full	24.55	/	/	23.45	/	/	<=33	Pass
		Inner_1RB_Left	24.43	/	/	23.33	/	/	<=33	Pass
		Inner_1RB_Right	24.50	/	/	23.40	/	/	<=33	Pass
DFT-s-OFDM QPSK	2580	Edge_1RB_Left	24.85	/	/	23.75	/	/	<=33	Pass
		Edge_1RB_Right	24.76	/	/	23.66	/	/	<=33	Pass
		Outer_Full	24.83	/	/	23.73	/	/	<=33	Pass
		Inner_Full	24.77	/	/	23.67	/	/	<=33	Pass
		Inner_1RB_Left	24.75	/	/	23.65	/	/	<=33	Pass
		Inner_1RB_Right	24.81	/	/	23.71	/	/	<=33	Pass
	2595	Edge_1RB_Left	24.34	/	/	23.24	/	/	<=33	Pass
		Edge_1RB_Right	24.30	/	/	23.20	/	/	<=33	Pass
		Outer_Full	24.33	/	/	23.23	/	/	<=33	Pass
		Inner_Full	24.32	/	/	23.22	/	/	<=33	Pass
		Inner_1RB_Left	24.34	/	/	23.24	/	/	<=33	Pass
		Inner_1RB_Right	24.34	/	/	23.24	/	/	<=33	Pass
	2610	Edge_1RB_Left	24.44	/	/	23.34	/	/	<=33	Pass
		Edge_1RB_Right	24.41	/	/	23.31	/	/	<=33	Pass
		Outer_Full	24.45	/	/	23.35	/	/	<=33	Pass
		Inner_Full	24.41	/	/	23.31	/	/	<=33	Pass
		Inner_1RB_Left	24.30	/	/	23.20	/	/	<=33	Pass
		Inner_1RB_Right	24.39	/	/	23.29	/	/	<=33	Pass
DFT-s-OFDM 16 QAM	2580	Edge_1RB_Left	23.81	/	/	22.71	/	/	<=33	Pass
		Edge_1RB_Right	23.80	/	/	22.70	/	/	<=33	Pass
		Outer_Full	23.81	/	/	22.71	/	/	<=33	Pass
		Inner_Full	24.83	/	/	23.73	/	/	<=33	Pass
		Inner_1RB_Left	24.77	/	/	23.67	/	/	<=33	Pass
		Inner_1RB_Right	24.71	/	/	23.61	/	/	<=33	Pass
	2595	Edge_1RB_Left	23.38	/	/	22.28	/	/	<=33	Pass
		Edge_1RB_Right	23.43	/	/	22.33	/	/	<=33	Pass
		Outer_Full	23.33	/	/	22.23	/	/	<=33	Pass
		Inner_Full	24.34	/	/	23.24	/	/	<=33	Pass
		Inner_1RB_Left	24.31	/	/	23.21	/	/	<=33	Pass
		Inner_1RB_Right	24.37	/	/	23.27	/	/	<=33	Pass
	2610	Edge_1RB_Left	23.48	/	/	22.38	/	/	<=33	Pass

		Edge 1RB Right	23.51	/	/	22.41	/	/	<=33	Pass
		Outer Full	23.45	/	/	22.35	/	/	<=33	Pass
		Inner Full	24.44	/	/	23.34	/	/	<=33	Pass
		Inner 1RB Left	24.42	/	/	23.32	/	/	<=33	Pass
		Inner 1RB Right	24.55	/	/	23.45	/	/	<=33	Pass
DFT-s-OFDM 64 QAM	2580	Edge 1RB Left	23.33	/	/	22.23	/	/	<=33	Pass
		Edge 1RB Right	23.23	/	/	22.13	/	/	<=33	Pass
		Outer Full	23.26	/	/	22.16	/	/	<=33	Pass
		Inner Full	23.32	/	/	22.22	/	/	<=33	Pass
		Inner 1RB Left	23.32	/	/	22.22	/	/	<=33	Pass
		Inner 1RB Right	23.26	/	/	22.16	/	/	<=33	Pass
	2595	Edge 1RB Left	22.85	/	/	21.75	/	/	<=33	Pass
		Edge 1RB Right	22.83	/	/	21.73	/	/	<=33	Pass
		Outer Full	22.83	/	/	21.73	/	/	<=33	Pass
		Inner Full	22.84	/	/	21.74	/	/	<=33	Pass
		Inner 1RB Left	22.77	/	/	21.67	/	/	<=33	Pass
		Inner 1RB Right	22.76	/	/	21.66	/	/	<=33	Pass
	2610	Edge 1RB Left	22.81	/	/	21.71	/	/	<=33	Pass
		Edge 1RB Right	22.96	/	/	21.86	/	/	<=33	Pass
		Outer Full	22.85	/	/	21.75	/	/	<=33	Pass
		Inner Full	22.93	/	/	21.83	/	/	<=33	Pass
		Inner 1RB Left	22.82	/	/	21.72	/	/	<=33	Pass
		Inner 1RB Right	22.92	/	/	21.82	/	/	<=33	Pass
DFT-s-OFDM 256 QAM	2580	Edge 1RB Left	21.11	/	/	20.01	/	/	<=33	Pass
		Edge 1RB Right	21.03	/	/	19.93	/	/	<=33	Pass
		Outer Full	21.22	/	/	20.12	/	/	<=33	Pass
		Inner Full	21.20	/	/	20.10	/	/	<=33	Pass
		Inner 1RB Left	21.08	/	/	19.98	/	/	<=33	Pass
		Inner 1RB Right	21.08	/	/	19.98	/	/	<=33	Pass
	2595	Edge 1RB Left	20.66	/	/	19.56	/	/	<=33	Pass
		Edge 1RB Right	20.65	/	/	19.55	/	/	<=33	Pass
		Outer Full	20.80	/	/	19.70	/	/	<=33	Pass
		Inner Full	20.72	/	/	19.62	/	/	<=33	Pass
		Inner 1RB Left	20.66	/	/	19.56	/	/	<=33	Pass
		Inner 1RB Right	20.69	/	/	19.59	/	/	<=33	Pass
	2610	Edge 1RB Left	20.79	/	/	19.69	/	/	<=33	Pass
		Edge 1RB Right	20.85	/	/	19.75	/	/	<=33	Pass
		Outer Full	20.88	/	/	19.78	/	/	<=33	Pass
		Inner Full	20.86	/	/	19.76	/	/	<=33	Pass
		Inner 1RB Left	20.76	/	/	19.66	/	/	<=33	Pass
		Inner 1RB Right	20.86	/	/	19.76	/	/	<=33	Pass
CP-OFDM QPSK	2580	Edge 1RB Left	22.69	/	/	21.59	/	/	<=33	Pass
		Edge 1RB Right	22.68	/	/	21.58	/	/	<=33	Pass
		Outer Full	22.76	/	/	21.66	/	/	<=33	Pass
		Inner Full	24.10	/	/	23.00	/	/	<=33	Pass
		Inner 1RB Left	24.15	/	/	23.05	/	/	<=33	Pass
		Inner 1RB Right	23.93	/	/	22.83	/	/	<=33	Pass
	2595	Edge 1RB Left	22.37	/	/	21.27	/	/	<=33	Pass
		Edge 1RB Right	22.28	/	/	21.18	/	/	<=33	Pass
		Outer Full	22.33	/	/	21.23	/	/	<=33	Pass
		Inner Full	24.03	/	/	22.93	/	/	<=33	Pass
		Inner 1RB Left	23.88	/	/	22.78	/	/	<=33	Pass
		Inner 1RB Right	23.79	/	/	22.69	/	/	<=33	Pass
	2610	Edge 1RB Left	22.42	/	/	21.32	/	/	<=33	Pass
		Edge 1RB Right	22.51	/	/	21.41	/	/	<=33	Pass
		Outer Full	22.45	/	/	21.35	/	/	<=33	Pass
		Inner Full	24.01	/	/	22.91	/	/	<=33	Pass
		Inner 1RB Left	23.88	/	/	22.78	/	/	<=33	Pass
		Inner 1RB Right	23.94	/	/	22.84	/	/	<=33	Pass

CP-OFDM 16 QAM	2580	Edge_1RB_Left	22.56	/	/	21.46	/	/	<=33	Pass
		Edge_1RB_Right	22.49	/	/	21.39	/	/	<=33	Pass
		Outer_Full	22.48	/	/	21.38	/	/	<=33	Pass
		Inner_Full	23.51	/	/	22.41	/	/	<=33	Pass
		Inner_1RB_Left	23.51	/	/	22.41	/	/	<=33	Pass
		Inner_1RB_Right	23.39	/	/	22.29	/	/	<=33	Pass
	2595	Edge_1RB_Left	22.38	/	/	21.28	/	/	<=33	Pass
		Edge_1RB_Right	22.44	/	/	21.34	/	/	<=33	Pass
		Outer_Full	22.30	/	/	21.20	/	/	<=33	Pass
		Inner_Full	23.29	/	/	22.19	/	/	<=33	Pass
		Inner_1RB_Left	23.29	/	/	22.19	/	/	<=33	Pass
		Inner_1RB_Right	23.24	/	/	22.14	/	/	<=33	Pass
	2610	Edge_1RB_Left	22.52	/	/	21.42	/	/	<=33	Pass
		Edge_1RB_Right	22.55	/	/	21.45	/	/	<=33	Pass
		Outer_Full	22.41	/	/	21.31	/	/	<=33	Pass
		Inner_Full	23.59	/	/	22.49	/	/	<=33	Pass
		Inner_1RB_Left	23.52	/	/	22.42	/	/	<=33	Pass
		Inner_1RB_Right	23.52	/	/	22.42	/	/	<=33	Pass
CP-OFDM 64 QAM	2580	Edge_1RB_Left	22.12	/	/	21.02	/	/	<=33	Pass
		Edge_1RB_Right	22.00	/	/	20.90	/	/	<=33	Pass
		Outer_Full	22.03	/	/	20.93	/	/	<=33	Pass
		Inner_Full	22.04	/	/	20.94	/	/	<=33	Pass
		Inner_1RB_Left	22.00	/	/	20.90	/	/	<=33	Pass
		Inner_1RB_Right	22.04	/	/	20.94	/	/	<=33	Pass
	2595	Edge_1RB_Left	21.87	/	/	20.77	/	/	<=33	Pass
		Edge_1RB_Right	21.91	/	/	20.81	/	/	<=33	Pass
		Outer_Full	21.82	/	/	20.72	/	/	<=33	Pass
		Inner_Full	21.85	/	/	20.75	/	/	<=33	Pass
		Inner_1RB_Left	21.87	/	/	20.77	/	/	<=33	Pass
		Inner_1RB_Right	21.88	/	/	20.78	/	/	<=33	Pass
	2610	Edge_1RB_Left	21.97	/	/	20.87	/	/	<=33	Pass
		Edge_1RB_Right	22.09	/	/	20.99	/	/	<=33	Pass
		Outer_Full	22.00	/	/	20.90	/	/	<=33	Pass
		Inner_Full	21.96	/	/	20.86	/	/	<=33	Pass
		Inner_1RB_Left	21.98	/	/	20.88	/	/	<=33	Pass
		Inner_1RB_Right	22.12	/	/	21.02	/	/	<=33	Pass
CP-OFDM 256 QAM	2580	Edge_1RB_Left	19.02	/	/	17.92	/	/	<=33	Pass
		Edge_1RB_Right	18.87	/	/	17.77	/	/	<=33	Pass
		Outer_Full	18.99	/	/	17.89	/	/	<=33	Pass
		Inner_Full	18.95	/	/	17.85	/	/	<=33	Pass
		Inner_1RB_Left	18.90	/	/	17.80	/	/	<=33	Pass
		Inner_1RB_Right	18.90	/	/	17.80	/	/	<=33	Pass
	2595	Edge_1RB_Left	18.71	/	/	17.61	/	/	<=33	Pass
		Edge_1RB_Right	18.84	/	/	17.74	/	/	<=33	Pass
		Outer_Full	18.84	/	/	17.74	/	/	<=33	Pass
		Inner_Full	18.78	/	/	17.68	/	/	<=33	Pass
		Inner_1RB_Left	18.75	/	/	17.65	/	/	<=33	Pass
		Inner_1RB_Right	18.77	/	/	17.67	/	/	<=33	Pass
	2610	Edge_1RB_Left	18.97	/	/	17.87	/	/	<=33	Pass
		Edge_1RB_Right	18.98	/	/	17.88	/	/	<=33	Pass
		Outer_Full	19.01	/	/	17.91	/	/	<=33	Pass
		Inner_Full	18.99	/	/	17.89	/	/	<=33	Pass
		Inner_1RB_Left	18.96	/	/	17.86	/	/	<=33	Pass
		Inner_1RB_Right	18.97	/	/	17.87	/	/	<=33	Pass
Note1: Antenna Gain: Ant2: -1.10dBi; Note2: EIRP=Conducted Power+Antenna Gain										

1.1.2 30k_SISO_30MHz_NTNV_EIRP

5G NR n38 SCS=30kHz SISO 30MHz NTN										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			EIRP(dBm)				Verdict
			Ant2	Ant2*	Sum	Ant2	Ant2*	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2585	Edge_1RB_Left	24.56	/	/	23.46	/	/	<=33	Pass
		Edge_1RB_Right	24.53	/	/	23.43	/	/	<=33	Pass
		Outer_Full	24.52	/	/	23.42	/	/	<=33	Pass
		Inner_Full	24.45	/	/	23.35	/	/	<=33	Pass
		Inner_1RB_Left	24.53	/	/	23.43	/	/	<=33	Pass
		Inner_1RB_Right	24.54	/	/	23.44	/	/	<=33	Pass
	2595	Edge_1RB_Left	24.48	/	/	23.38	/	/	<=33	Pass
		Edge_1RB_Right	24.55	/	/	23.45	/	/	<=33	Pass
		Outer_Full	24.45	/	/	23.35	/	/	<=33	Pass
		Inner_Full	24.40	/	/	23.30	/	/	<=33	Pass
		Inner_1RB_Left	24.47	/	/	23.37	/	/	<=33	Pass
		Inner_1RB_Right	24.50	/	/	23.40	/	/	<=33	Pass
	2605	Edge_1RB_Left	24.43	/	/	23.33	/	/	<=33	Pass
		Edge_1RB_Right	24.48	/	/	23.38	/	/	<=33	Pass
		Outer_Full	24.41	/	/	23.31	/	/	<=33	Pass
		Inner_Full	24.78	/	/	23.68	/	/	<=33	Pass
		Inner_1RB_Left	24.41	/	/	23.31	/	/	<=33	Pass
		Inner_1RB_Right	24.47	/	/	23.37	/	/	<=33	Pass
DFT-s-OFDM QPSK	2585	Edge_1RB_Left	24.49	/	/	23.39	/	/	<=33	Pass
		Edge_1RB_Right	24.51	/	/	23.41	/	/	<=33	Pass
		Outer_Full	24.45	/	/	23.35	/	/	<=33	Pass
		Inner_Full	24.44	/	/	23.34	/	/	<=33	Pass
		Inner_1RB_Left	24.51	/	/	23.41	/	/	<=33	Pass
		Inner_1RB_Right	24.52	/	/	23.42	/	/	<=33	Pass
	2595	Edge_1RB_Left	24.50	/	/	23.40	/	/	<=33	Pass
		Edge_1RB_Right	24.48	/	/	23.38	/	/	<=33	Pass
		Outer_Full	24.40	/	/	23.30	/	/	<=33	Pass
		Inner_Full	24.41	/	/	23.31	/	/	<=33	Pass
		Inner_1RB_Left	24.44	/	/	23.34	/	/	<=33	Pass
		Inner_1RB_Right	24.46	/	/	23.36	/	/	<=33	Pass
	2605	Edge_1RB_Left	24.40	/	/	23.30	/	/	<=33	Pass
		Edge_1RB_Right	24.54	/	/	23.44	/	/	<=33	Pass
		Outer_Full	24.39	/	/	23.29	/	/	<=33	Pass
		Inner_Full	24.38	/	/	23.28	/	/	<=33	Pass
		Inner_1RB_Left	24.35	/	/	23.25	/	/	<=33	Pass
		Inner_1RB_Right	24.45	/	/	23.35	/	/	<=33	Pass
DFT-s-OFDM 16 QAM	2585	Edge_1RB_Left	23.51	/	/	22.41	/	/	<=33	Pass
		Edge_1RB_Right	23.53	/	/	22.43	/	/	<=33	Pass
		Outer_Full	23.46	/	/	22.36	/	/	<=33	Pass
		Inner_Full	24.49	/	/	23.39	/	/	<=33	Pass
		Inner_1RB_Left	24.48	/	/	23.38	/	/	<=33	Pass
		Inner_1RB_Right	24.60	/	/	23.50	/	/	<=33	Pass
	2595	Edge_1RB_Left	23.48	/	/	22.38	/	/	<=33	Pass
		Edge_1RB_Right	23.50	/	/	22.40	/	/	<=33	Pass
		Outer_Full	23.37	/	/	22.27	/	/	<=33	Pass
		Inner_Full	24.40	/	/	23.30	/	/	<=33	Pass
		Inner_1RB_Left	24.54	/	/	23.44	/	/	<=33	Pass
		Inner_1RB_Right	24.56	/	/	23.46	/	/	<=33	Pass
	2605	Edge_1RB_Left	23.47	/	/	22.37	/	/	<=33	Pass
		Edge_1RB_Right	23.59	/	/	22.49	/	/	<=33	Pass
		Outer_Full	23.36	/	/	22.26	/	/	<=33	Pass
		Inner_Full	24.37	/	/	23.27	/	/	<=33	Pass
		Inner_1RB_Left	24.50	/	/	23.40	/	/	<=33	Pass
		Inner_1RB_Right	24.68	/	/	23.58	/	/	<=33	Pass
DFT-s-OFDM 64 QAM	2585	Edge_1RB_Left	22.92	/	/	21.82	/	/	<=33	Pass
		Edge_1RB_Right	22.98	/	/	21.88	/	/	<=33	Pass

		Outer_Full	22.93	/	/	21.83	/	/	<=33	Pass
		Inner_Full	22.91	/	/	21.81	/	/	<=33	Pass
		Inner_1RB_Left	22.94	/	/	21.84	/	/	<=33	Pass
		Inner_1RB_Right	23.02	/	/	21.92	/	/	<=33	Pass
	2595	Edge_1RB_Left	22.95	/	/	21.85	/	/	<=33	Pass
		Edge_1RB_Right	22.97	/	/	21.87	/	/	<=33	Pass
		Outer_Full	22.92	/	/	21.82	/	/	<=33	Pass
		Inner_Full	22.85	/	/	21.75	/	/	<=33	Pass
		Inner_1RB_Left	22.94	/	/	21.84	/	/	<=33	Pass
		Inner_1RB_Right	22.96	/	/	21.86	/	/	<=33	Pass
	2605	Edge_1RB_Left	22.87	/	/	21.77	/	/	<=33	Pass
		Edge_1RB_Right	22.99	/	/	21.89	/	/	<=33	Pass
		Outer_Full	22.89	/	/	21.79	/	/	<=33	Pass
		Inner_Full	22.91	/	/	21.81	/	/	<=33	Pass
		Inner_1RB_Left	22.80	/	/	21.70	/	/	<=33	Pass
		Inner_1RB_Right	23.01	/	/	21.91	/	/	<=33	Pass
DFT-s-OFDM 256 QAM	2585	Edge_1RB_Left	20.88	/	/	19.78	/	/	<=33	Pass
		Edge_1RB_Right	20.87	/	/	19.77	/	/	<=33	Pass
		Outer_Full	20.93	/	/	19.83	/	/	<=33	Pass
		Inner_Full	20.87	/	/	19.77	/	/	<=33	Pass
		Inner_1RB_Left	20.90	/	/	19.80	/	/	<=33	Pass
		Inner_1RB_Right	20.84	/	/	19.74	/	/	<=33	Pass
	2595	Edge_1RB_Left	20.81	/	/	19.71	/	/	<=33	Pass
		Edge_1RB_Right	20.85	/	/	19.75	/	/	<=33	Pass
		Outer_Full	20.87	/	/	19.77	/	/	<=33	Pass
		Inner_Full	20.82	/	/	19.72	/	/	<=33	Pass
		Inner_1RB_Left	20.86	/	/	19.76	/	/	<=33	Pass
		Inner_1RB_Right	20.79	/	/	19.69	/	/	<=33	Pass
	2605	Edge_1RB_Left	20.78	/	/	19.68	/	/	<=33	Pass
		Edge_1RB_Right	20.93	/	/	19.83	/	/	<=33	Pass
		Outer_Full	20.88	/	/	19.78	/	/	<=33	Pass
		Inner_Full	20.79	/	/	19.69	/	/	<=33	Pass
		Inner_1RB_Left	20.77	/	/	19.67	/	/	<=33	Pass
		Inner_1RB_Right	20.93	/	/	19.83	/	/	<=33	Pass
CP-OFDM QPSK	2585	Edge_1RB_Left	22.49	/	/	21.39	/	/	<=33	Pass
		Edge_1RB_Right	22.33	/	/	21.23	/	/	<=33	Pass
		Outer_Full	22.39	/	/	21.29	/	/	<=33	Pass
		Inner_Full	23.96	/	/	22.86	/	/	<=33	Pass
		Inner_1RB_Left	23.95	/	/	22.85	/	/	<=33	Pass
		Inner_1RB_Right	24.18	/	/	23.08	/	/	<=33	Pass
	2595	Edge_1RB_Left	22.42	/	/	21.32	/	/	<=33	Pass
		Edge_1RB_Right	22.40	/	/	21.30	/	/	<=33	Pass
		Outer_Full	22.39	/	/	21.29	/	/	<=33	Pass
		Inner_Full	23.90	/	/	22.80	/	/	<=33	Pass
		Inner_1RB_Left	23.94	/	/	22.84	/	/	<=33	Pass
		Inner_1RB_Right	23.99	/	/	22.89	/	/	<=33	Pass
	2605	Edge_1RB_Left	22.38	/	/	21.28	/	/	<=33	Pass
		Edge_1RB_Right	22.50	/	/	21.40	/	/	<=33	Pass
		Outer_Full	22.36	/	/	21.26	/	/	<=33	Pass
		Inner_Full	23.87	/	/	22.77	/	/	<=33	Pass
		Inner_1RB_Left	23.84	/	/	22.74	/	/	<=33	Pass
		Inner_1RB_Right	24.00	/	/	22.90	/	/	<=33	Pass
CP-OFDM 16 QAM	2585	Edge_1RB_Left	22.56	/	/	21.46	/	/	<=33	Pass
		Edge_1RB_Right	22.56	/	/	21.46	/	/	<=33	Pass
		Outer_Full	22.42	/	/	21.32	/	/	<=33	Pass
		Inner_Full	23.43	/	/	22.33	/	/	<=33	Pass
		Inner_1RB_Left	23.63	/	/	22.53	/	/	<=33	Pass
		Inner_1RB_Right	23.57	/	/	22.47	/	/	<=33	Pass
	2595	Edge_1RB_Left	22.56	/	/	21.46	/	/	<=33	Pass

		Edge_1RB_Right	22.51	/	/	21.41	/	/	<=33	Pass
		Outer_Full	22.37	/	/	21.27	/	/	<=33	Pass
		Inner_Full	23.37	/	/	22.27	/	/	<=33	Pass
		Inner_1RB_Left	23.56	/	/	22.46	/	/	<=33	Pass
		Inner_1RB_Right	23.44	/	/	22.34	/	/	<=33	Pass
	2605	Edge_1RB_Left	22.46	/	/	21.36	/	/	<=33	Pass
		Edge_1RB_Right	22.59	/	/	21.49	/	/	<=33	Pass
		Outer_Full	22.36	/	/	21.26	/	/	<=33	Pass
		Inner_Full	23.34	/	/	22.24	/	/	<=33	Pass
		Inner_1RB_Left	23.41	/	/	22.31	/	/	<=33	Pass
		Inner_1RB_Right	23.58	/	/	22.48	/	/	<=33	Pass
CP-OFDM 64 QAM	2585	Edge_1RB_Left	22.01	/	/	20.91	/	/	<=33	Pass
		Edge_1RB_Right	22.09	/	/	20.99	/	/	<=33	Pass
		Outer_Full	21.98	/	/	20.88	/	/	<=33	Pass
		Inner_Full	21.95	/	/	20.85	/	/	<=33	Pass
		Inner_1RB_Left	22.07	/	/	20.97	/	/	<=33	Pass
		Inner_1RB_Right	22.00	/	/	20.90	/	/	<=33	Pass
	2595	Edge_1RB_Left	22.01	/	/	20.91	/	/	<=33	Pass
		Edge_1RB_Right	22.03	/	/	20.93	/	/	<=33	Pass
		Outer_Full	21.92	/	/	20.82	/	/	<=33	Pass
		Inner_Full	21.88	/	/	20.78	/	/	<=33	Pass
		Inner_1RB_Left	21.98	/	/	20.88	/	/	<=33	Pass
		Inner_1RB_Right	22.06	/	/	20.96	/	/	<=33	Pass
	2605	Edge_1RB_Left	22.01	/	/	20.91	/	/	<=33	Pass
		Edge_1RB_Right	22.11	/	/	21.01	/	/	<=33	Pass
		Outer_Full	21.88	/	/	20.78	/	/	<=33	Pass
		Inner_Full	21.86	/	/	20.76	/	/	<=33	Pass
		Inner_1RB_Left	21.98	/	/	20.88	/	/	<=33	Pass
		Inner_1RB_Right	22.18	/	/	21.08	/	/	<=33	Pass
CP-OFDM 256 QAM	2585	Edge_1RB_Left	18.93	/	/	17.83	/	/	<=33	Pass
		Edge_1RB_Right	18.96	/	/	17.86	/	/	<=33	Pass
		Outer_Full	18.95	/	/	17.85	/	/	<=33	Pass
		Inner_Full	18.92	/	/	17.82	/	/	<=33	Pass
		Inner_1RB_Left	18.98	/	/	17.88	/	/	<=33	Pass
		Inner_1RB_Right	18.94	/	/	17.84	/	/	<=33	Pass
	2595	Edge_1RB_Left	18.91	/	/	17.81	/	/	<=33	Pass
		Edge_1RB_Right	19.07	/	/	17.97	/	/	<=33	Pass
		Outer_Full	18.92	/	/	17.82	/	/	<=33	Pass
		Inner_Full	18.86	/	/	17.76	/	/	<=33	Pass
		Inner_1RB_Left	18.91	/	/	17.81	/	/	<=33	Pass
		Inner_1RB_Right	19.04	/	/	17.94	/	/	<=33	Pass
	2605	Edge_1RB_Left	18.83	/	/	17.73	/	/	<=33	Pass
		Edge_1RB_Right	19.00	/	/	17.90	/	/	<=33	Pass
		Outer_Full	18.96	/	/	17.86	/	/	<=33	Pass
Inner_Full		18.88	/	/	17.78	/	/	<=33	Pass	
Inner_1RB_Left		18.88	/	/	17.78	/	/	<=33	Pass	
		Inner_1RB_Right	19.01	/	/	17.91	/	/	<=33	Pass
Note1: Antenna Gain: Ant2: -1.10dBi; Note2: EIRP=Conducted Power+Antenna Gain										

1.1.3 30k_SISO_40MHz_NTNV_EIRP

5G NR n38 SCS=30kHz SISO 40MHz NTN										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			EIRP(dBm)				Verdict
			Ant2	Ant2*	Sum	Ant2	Ant2*	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2590	Edge_1RB_Left	25.13	/	/	24.03	/	/	<=33	Pass
		Edge_1RB_Right	24.75	/	/	23.65	/	/	<=33	Pass
		Outer_Full	25.07	/	/	23.97	/	/	<=33	Pass

		Inner Full	24.73	/	/	23.63	/	/	<=33	Pass
		Inner 1RB Left	24.81	/	/	23.71	/	/	<=33	Pass
		Inner 1RB Right	24.77	/	/	23.67	/	/	<=33	Pass
	2595	Edge 1RB Left	24.67	/	/	23.57	/	/	<=33	Pass
		Edge 1RB Right	24.75	/	/	23.65	/	/	<=33	Pass
		Outer Full	24.59	/	/	23.49	/	/	<=33	Pass
		Inner Full	24.57	/	/	23.47	/	/	<=33	Pass
		Inner 1RB Left	24.65	/	/	23.55	/	/	<=33	Pass
		Inner 1RB Right	24.65	/	/	23.55	/	/	<=33	Pass
	2600	Edge 1RB Left	24.76	/	/	23.66	/	/	<=33	Pass
		Edge 1RB Right	24.74	/	/	23.64	/	/	<=33	Pass
		Outer Full	24.73	/	/	23.63	/	/	<=33	Pass
		Inner Full	24.46	/	/	23.36	/	/	<=33	Pass
		Inner 1RB Left	24.64	/	/	23.54	/	/	<=33	Pass
		Inner 1RB Right	24.69	/	/	23.59	/	/	<=33	Pass
DFT-s-OFDM QPSK	2590	Edge 1RB Left	24.63	/	/	23.53	/	/	<=33	Pass
		Edge 1RB Right	24.51	/	/	23.41	/	/	<=33	Pass
		Outer Full	24.50	/	/	23.40	/	/	<=33	Pass
		Inner Full	24.55	/	/	23.45	/	/	<=33	Pass
		Inner 1RB Left	24.58	/	/	23.48	/	/	<=33	Pass
		Inner 1RB Right	24.60	/	/	23.50	/	/	<=33	Pass
	2595	Edge 1RB Left	24.48	/	/	23.38	/	/	<=33	Pass
		Edge 1RB Right	24.51	/	/	23.41	/	/	<=33	Pass
		Outer Full	24.43	/	/	23.33	/	/	<=33	Pass
		Inner Full	24.42	/	/	23.32	/	/	<=33	Pass
		Inner 1RB Left	24.50	/	/	23.40	/	/	<=33	Pass
		Inner 1RB Right	24.51	/	/	23.41	/	/	<=33	Pass
	2600	Edge 1RB Left	24.59	/	/	23.49	/	/	<=33	Pass
		Edge 1RB Right	24.57	/	/	23.47	/	/	<=33	Pass
		Outer Full	24.48	/	/	23.38	/	/	<=33	Pass
		Inner Full	24.50	/	/	23.40	/	/	<=33	Pass
		Inner 1RB Left	24.61	/	/	23.51	/	/	<=33	Pass
		Inner 1RB Right	24.58	/	/	23.48	/	/	<=33	Pass
DFT-s-OFDM 16 QAM	2590	Edge 1RB Left	23.63	/	/	22.53	/	/	<=33	Pass
		Edge 1RB Right	23.68	/	/	22.58	/	/	<=33	Pass
		Outer Full	23.47	/	/	22.37	/	/	<=33	Pass
		Inner Full	24.52	/	/	23.42	/	/	<=33	Pass
		Inner 1RB Left	24.72	/	/	23.62	/	/	<=33	Pass
		Inner 1RB Right	24.61	/	/	23.51	/	/	<=33	Pass
	2595	Edge 1RB Left	23.48	/	/	22.38	/	/	<=33	Pass
		Edge 1RB Right	23.49	/	/	22.39	/	/	<=33	Pass
		Outer Full	23.41	/	/	22.31	/	/	<=33	Pass
		Inner Full	24.40	/	/	23.30	/	/	<=33	Pass
		Inner 1RB Left	24.58	/	/	23.48	/	/	<=33	Pass
		Inner 1RB Right	24.59	/	/	23.49	/	/	<=33	Pass
	2600	Edge 1RB Left	23.63	/	/	22.53	/	/	<=33	Pass
		Edge 1RB Right	23.69	/	/	22.59	/	/	<=33	Pass
		Outer Full	23.49	/	/	22.39	/	/	<=33	Pass
		Inner Full	24.49	/	/	23.39	/	/	<=33	Pass
		Inner 1RB Left	24.69	/	/	23.59	/	/	<=33	Pass
		Inner 1RB Right	24.67	/	/	23.57	/	/	<=33	Pass
DFT-s-OFDM 64 QAM	2590	Edge 1RB Left	23.11	/	/	22.01	/	/	<=33	Pass
		Edge 1RB Right	23.08	/	/	21.98	/	/	<=33	Pass
		Outer Full	23.02	/	/	21.92	/	/	<=33	Pass
		Inner Full	23.02	/	/	21.92	/	/	<=33	Pass
		Inner 1RB Left	23.09	/	/	21.99	/	/	<=33	Pass
		Inner 1RB Right	22.97	/	/	21.87	/	/	<=33	Pass
	2595	Edge 1RB Left	22.97	/	/	21.87	/	/	<=33	Pass
		Edge 1RB Right	22.97	/	/	21.87	/	/	<=33	Pass

		Outer_Full	22.91	/	/	21.81	/	/	<=33	Pass
		Inner_Full	22.90	/	/	21.80	/	/	<=33	Pass
		Inner_1RB_Left	22.99	/	/	21.89	/	/	<=33	Pass
		Inner_1RB_Right	22.94	/	/	21.84	/	/	<=33	Pass
	2600	Edge_1RB_Left	23.15	/	/	22.05	/	/	<=33	Pass
		Edge_1RB_Right	23.09	/	/	21.99	/	/	<=33	Pass
		Outer_Full	22.98	/	/	21.88	/	/	<=33	Pass
		Inner_Full	22.96	/	/	21.86	/	/	<=33	Pass
		Inner_1RB_Left	23.10	/	/	22.00	/	/	<=33	Pass
		Inner_1RB_Right	23.15	/	/	22.05	/	/	<=33	Pass
DFT-s-OFDM 256 QAM	2590	Edge_1RB_Left	20.97	/	/	19.87	/	/	<=33	Pass
		Edge_1RB_Right	20.94	/	/	19.84	/	/	<=33	Pass
		Outer_Full	21.01	/	/	19.91	/	/	<=33	Pass
		Inner_Full	20.98	/	/	19.88	/	/	<=33	Pass
		Inner_1RB_Left	20.97	/	/	19.87	/	/	<=33	Pass
		Inner_1RB_Right	20.95	/	/	19.85	/	/	<=33	Pass
	2595	Edge_1RB_Left	20.88	/	/	19.78	/	/	<=33	Pass
		Edge_1RB_Right	20.87	/	/	19.77	/	/	<=33	Pass
		Outer_Full	20.90	/	/	19.80	/	/	<=33	Pass
		Inner_Full	20.86	/	/	19.76	/	/	<=33	Pass
		Inner_1RB_Left	20.83	/	/	19.73	/	/	<=33	Pass
		Inner_1RB_Right	20.80	/	/	19.70	/	/	<=33	Pass
	2600	Edge_1RB_Left	20.94	/	/	19.84	/	/	<=33	Pass
		Edge_1RB_Right	20.97	/	/	19.87	/	/	<=33	Pass
		Outer_Full	20.96	/	/	19.86	/	/	<=33	Pass
		Inner_Full	20.97	/	/	19.87	/	/	<=33	Pass
		Inner_1RB_Left	20.94	/	/	19.84	/	/	<=33	Pass
		Inner_1RB_Right	20.98	/	/	19.88	/	/	<=33	Pass
CP-OFDM QPSK	2590	Edge_1RB_Left	22.55	/	/	21.45	/	/	<=33	Pass
		Edge_1RB_Right	22.71	/	/	21.61	/	/	<=33	Pass
		Outer_Full	22.54	/	/	21.44	/	/	<=33	Pass
		Inner_Full	24.05	/	/	22.95	/	/	<=33	Pass
		Inner_1RB_Left	24.22	/	/	23.12	/	/	<=33	Pass
		Inner_1RB_Right	24.04	/	/	22.94	/	/	<=33	Pass
	2595	Edge_1RB_Left	22.49	/	/	21.39	/	/	<=33	Pass
		Edge_1RB_Right	22.45	/	/	21.35	/	/	<=33	Pass
		Outer_Full	22.45	/	/	21.35	/	/	<=33	Pass
		Inner_Full	23.88	/	/	22.78	/	/	<=33	Pass
		Inner_1RB_Left	24.08	/	/	22.98	/	/	<=33	Pass
		Inner_1RB_Right	23.94	/	/	22.84	/	/	<=33	Pass
	2600	Edge_1RB_Left	22.52	/	/	21.42	/	/	<=33	Pass
		Edge_1RB_Right	22.55	/	/	21.45	/	/	<=33	Pass
		Outer_Full	22.57	/	/	21.47	/	/	<=33	Pass
		Inner_Full	24.00	/	/	22.90	/	/	<=33	Pass
		Inner_1RB_Left	23.94	/	/	22.84	/	/	<=33	Pass
		Inner_1RB_Right	24.14	/	/	23.04	/	/	<=33	Pass
CP-OFDM 16 QAM	2590	Edge_1RB_Left	22.69	/	/	21.59	/	/	<=33	Pass
		Edge_1RB_Right	22.54	/	/	21.44	/	/	<=33	Pass
		Outer_Full	22.54	/	/	21.44	/	/	<=33	Pass
		Inner_Full	23.55	/	/	22.45	/	/	<=33	Pass
		Inner_1RB_Left	23.67	/	/	22.57	/	/	<=33	Pass
		Inner_1RB_Right	23.60	/	/	22.50	/	/	<=33	Pass
	2595	Edge_1RB_Left	22.59	/	/	21.49	/	/	<=33	Pass
		Edge_1RB_Right	22.62	/	/	21.52	/	/	<=33	Pass
		Outer_Full	22.37	/	/	21.27	/	/	<=33	Pass
		Inner_Full	23.36	/	/	22.26	/	/	<=33	Pass
		Inner_1RB_Left	23.50	/	/	22.40	/	/	<=33	Pass
		Inner_1RB_Right	23.51	/	/	22.41	/	/	<=33	Pass
	2600	Edge_1RB_Left	22.70	/	/	21.60	/	/	<=33	Pass

		Edge_1RB_Right	22.67	/	/	21.57	/	/	<=33	Pass
		Outer_Full	22.49	/	/	21.39	/	/	<=33	Pass
		Inner_Full	23.46	/	/	22.36	/	/	<=33	Pass
		Inner_1RB_Left	23.63	/	/	22.53	/	/	<=33	Pass
		Inner_1RB_Right	23.57	/	/	22.47	/	/	<=33	Pass
CP-OFDM 64 QAM	2590	Edge_1RB_Left	22.22	/	/	21.12	/	/	<=33	Pass
		Edge_1RB_Right	22.14	/	/	21.04	/	/	<=33	Pass
		Outer_Full	22.04	/	/	20.94	/	/	<=33	Pass
		Inner_Full	22.03	/	/	20.93	/	/	<=33	Pass
		Inner_1RB_Left	22.21	/	/	21.11	/	/	<=33	Pass
		Inner_1RB_Right	22.08	/	/	20.98	/	/	<=33	Pass
	2595	Edge_1RB_Left	22.08	/	/	20.98	/	/	<=33	Pass
		Edge_1RB_Right	22.11	/	/	21.01	/	/	<=33	Pass
		Outer_Full	21.93	/	/	20.83	/	/	<=33	Pass
		Inner_Full	21.90	/	/	20.80	/	/	<=33	Pass
		Inner_1RB_Left	22.06	/	/	20.96	/	/	<=33	Pass
		Inner_1RB_Right	22.08	/	/	20.98	/	/	<=33	Pass
	2600	Edge_1RB_Left	22.10	/	/	21.00	/	/	<=33	Pass
		Edge_1RB_Right	22.11	/	/	21.01	/	/	<=33	Pass
		Outer_Full	22.00	/	/	20.90	/	/	<=33	Pass
		Inner_Full	22.00	/	/	20.90	/	/	<=33	Pass
		Inner_1RB_Left	22.14	/	/	21.04	/	/	<=33	Pass
		Inner_1RB_Right	22.17	/	/	21.07	/	/	<=33	Pass
CP-OFDM 256 QAM	2590	Edge_1RB_Left	19.03	/	/	17.93	/	/	<=33	Pass
		Edge_1RB_Right	19.01	/	/	17.91	/	/	<=33	Pass
		Outer_Full	19.03	/	/	17.93	/	/	<=33	Pass
		Inner_Full	19.03	/	/	17.93	/	/	<=33	Pass
		Inner_1RB_Left	19.08	/	/	17.98	/	/	<=33	Pass
		Inner_1RB_Right	19.11	/	/	18.01	/	/	<=33	Pass
	2595	Edge_1RB_Left	18.94	/	/	17.84	/	/	<=33	Pass
		Edge_1RB_Right	18.94	/	/	17.84	/	/	<=33	Pass
		Outer_Full	18.94	/	/	17.84	/	/	<=33	Pass
		Inner_Full	18.91	/	/	17.81	/	/	<=33	Pass
		Inner_1RB_Left	18.96	/	/	17.86	/	/	<=33	Pass
		Inner_1RB_Right	18.97	/	/	17.87	/	/	<=33	Pass
	2600	Edge_1RB_Left	19.04	/	/	17.94	/	/	<=33	Pass
		Edge_1RB_Right	19.06	/	/	17.96	/	/	<=33	Pass
		Outer_Full	19.03	/	/	17.93	/	/	<=33	Pass
		Inner_Full	19.00	/	/	17.90	/	/	<=33	Pass
		Inner_1RB_Left	19.03	/	/	17.93	/	/	<=33	Pass
		Inner_1RB_Right	19.07	/	/	17.97	/	/	<=33	Pass
Note1: Antenna Gain: Ant2: -1.10dBi; Note2: EIRP=Conducted Power+Antenna Gain										

2. Frequency Stability

2.1 Test Result

2.1.1 30k_SISO_40MHz

5G NR n38 SCS=30kHz SISO 40MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	2595	Outer_Full	20	LV	-5.10	-0.0020	>=-2.5 & <=2.5	Pass
				HV	9.70	0.0037	>=-2.5 & <=2.5	Pass
			-30	NV	-5.50	-0.0021	>=-2.5 & <=2.5	Pass

			-20	NV	11.60	0.0045	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-10	NV	15.50	0.0060	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			0	NV	16.40	0.0063	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			10	NV	14.10	0.0054	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			20	NV	-1.90	-0.0007	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			30	NV	4.70	0.0018	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			40	NV	-6.40	-0.0025	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			50	NV	10.20	0.0039	$\geq -2.5 \ \& \ \leq 2.5$	Pass
DFT-s-OFDM QPSK	2595	Outer_Full	20	LV	8.40	0.0032	$\geq -2.5 \ \& \ \leq 2.5$	Pass
				HV	6.20	0.0024	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-30	NV	-7.80	-0.0030	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-20	NV	-6.50	-0.0025	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-10	NV	13.40	0.0052	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			0	NV	20.80	0.0080	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			10	NV	12.90	0.0050	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			20	NV	5.80	0.0022	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			30	NV	14.70	0.0057	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			40	NV	-13.20	-0.0051	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			50	NV	1.20	0.0005	$\geq -2.5 \ \& \ \leq 2.5$	Pass
DFT-s-OFDM 16 QAM	2595	Outer_Full	20	LV	-6.40	-0.0025	$\geq -2.5 \ \& \ \leq 2.5$	Pass
				HV	9.10	0.0035	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-30	NV	18.70	0.0072	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-20	NV	3.40	0.0013	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-10	NV	-5.90	-0.0023	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			0	NV	6.40	0.0025	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			10	NV	-7.00	-0.0027	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			20	NV	7.80	0.0030	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			30	NV	20.50	0.0079	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			40	NV	-13.40	-0.0052	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			50	NV	6.10	0.0024	$\geq -2.5 \ \& \ \leq 2.5$	Pass
DFT-s-OFDM 64 QAM	2595	Outer_Full	20	LV	11.30	0.0044	$\geq -2.5 \ \& \ \leq 2.5$	Pass
				HV	5.80	0.0022	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-30	NV	23.90	0.0092	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-20	NV	3.60	0.0014	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-10	NV	9.00	0.0035	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			0	NV	-10.30	-0.0040	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			10	NV	-7.60	-0.0029	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			20	NV	18.60	0.0072	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			30	NV	-6.40	-0.0025	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			40	NV	7.90	0.0030	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			50	NV	10.40	0.0040	$\geq -2.5 \ \& \ \leq 2.5$	Pass
DFT-s-OFDM 256 QAM	2595	Outer_Full	20	LV	4.10	0.0016	$\geq -2.5 \ \& \ \leq 2.5$	Pass
				HV	-10.60	-0.0041	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-30	NV	11.40	0.0044	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-20	NV	13.10	0.0050	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-10	NV	4.00	0.0015	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			0	NV	8.20	0.0032	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			10	NV	15.40	0.0059	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			20	NV	14.20	0.0055	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			30	NV	5.00	0.0019	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			40	NV	6.20	0.0024	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			50	NV	-3.00	-0.0012	$\geq -2.5 \ \& \ \leq 2.5$	Pass
CP-OFDM QPSK	2595	Outer_Full	20	LV	9.50	0.0037	$\geq -2.5 \ \& \ \leq 2.5$	Pass
				HV	-6.20	-0.0024	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-30	NV	-3.90	-0.0015	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-20	NV	8.20	0.0032	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-10	NV	-5.30	-0.0020	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			0	NV	-5.30	-0.0020	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			10	NV	-6.40	-0.0025	$\geq -2.5 \ \& \ \leq 2.5$	Pass

			20	NV	15.10	0.0058	>=-2.5 & <=2.5	Pass
			30	NV	9.10	0.0035	>=-2.5 & <=2.5	Pass
			40	NV	-9.20	-0.0035	>=-2.5 & <=2.5	Pass
			50	NV	5.40	0.0021	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	2595	Outer_Full	20	LV	8.00	0.0031	>=-2.5 & <=2.5	Pass
				HV	21.40	0.0082	>=-2.5 & <=2.5	Pass
			-30	NV	18.30	0.0071	>=-2.5 & <=2.5	Pass
			-20	NV	10.30	0.0040	>=-2.5 & <=2.5	Pass
			-10	NV	-4.50	-0.0017	>=-2.5 & <=2.5	Pass
			0	NV	6.00	0.0023	>=-2.5 & <=2.5	Pass
			10	NV	-7.60	-0.0029	>=-2.5 & <=2.5	Pass
			20	NV	3.50	0.0013	>=-2.5 & <=2.5	Pass
			30	NV	16.40	0.0063	>=-2.5 & <=2.5	Pass
			40	NV	8.50	0.0033	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	2595	Outer_Full	50	NV	13.80	0.0053	>=-2.5 & <=2.5	Pass
			20	LV	3.80	0.0015	>=-2.5 & <=2.5	Pass
				HV	1.60	0.0006	>=-2.5 & <=2.5	Pass
			-30	NV	3.10	0.0012	>=-2.5 & <=2.5	Pass
			-20	NV	5.20	0.0020	>=-2.5 & <=2.5	Pass
			-10	NV	-6.90	-0.0027	>=-2.5 & <=2.5	Pass
			0	NV	13.90	0.0054	>=-2.5 & <=2.5	Pass
			10	NV	10.90	0.0042	>=-2.5 & <=2.5	Pass
			20	NV	19.40	0.0075	>=-2.5 & <=2.5	Pass
			30	NV	-9.20	-0.0035	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	2595	Outer_Full	40	NV	9.70	0.0037	>=-2.5 & <=2.5	Pass
			50	NV	11.80	0.0045	>=-2.5 & <=2.5	Pass
			20	LV	2.30	0.0009	>=-2.5 & <=2.5	Pass
				HV	2.00	0.0008	>=-2.5 & <=2.5	Pass
			-30	NV	-4.40	-0.0017	>=-2.5 & <=2.5	Pass
			-20	NV	6.70	0.0026	>=-2.5 & <=2.5	Pass
			-10	NV	17.00	0.0066	>=-2.5 & <=2.5	Pass
			0	NV	5.40	0.0021	>=-2.5 & <=2.5	Pass
			10	NV	5.20	0.0020	>=-2.5 & <=2.5	Pass
			20	NV	-3.60	-0.0014	>=-2.5 & <=2.5	Pass
			30	NV	5.70	0.0022	>=-2.5 & <=2.5	Pass
			40	NV	-3.20	-0.0012	>=-2.5 & <=2.5	Pass
			50	NV	17.10	0.0066	>=-2.5 & <=2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 30k_SISO_20MHz_NTNV

5G NR n38 SCS=30kHz SISO 20MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2580	Outer_Full	18.08	19.95	/	Pass
	2595	Outer_Full	18.09	19.92	/	Pass
	2610	Outer_Full	18.10	20.11	/	Pass
DFT-s-OFDM QPSK	2580	Outer_Full	18.10	19.98	/	Pass
	2595	Outer_Full	18.13	19.85	/	Pass
	2610	Outer_Full	18.12	20.03	/	Pass
DFT-s-OFDM 16 QAM	2580	Outer_Full	18.17	20.33	/	Pass
	2595	Outer_Full	18.19	20.25	/	Pass
	2610	Outer_Full	18.17	20.25	/	Pass

DFT-s-OFDM 64 QAM	2580	Outer_Full	18.11	19.90	/	Pass
	2595	Outer_Full	18.17	19.91	/	Pass
	2610	Outer_Full	18.17	20.09	/	Pass
DFT-s-OFDM 256 QAM	2580	Outer_Full	18.08	19.86	/	Pass
	2595	Outer_Full	18.09	20.06	/	Pass
	2610	Outer_Full	18.11	20.04	/	Pass
CP-OFDM QPSK	2580	Outer_Full	18.38	20.43	/	Pass
	2595	Outer_Full	18.42	20.75	/	Pass
	2610	Outer_Full	18.43	20.96	/	Pass
CP-OFDM 16 QAM	2580	Outer_Full	18.48	20.35	/	Pass
	2595	Outer_Full	18.47	20.50	/	Pass
	2610	Outer_Full	18.48	20.59	/	Pass
CP-OFDM 64 QAM	2580	Outer_Full	18.36	20.25	/	Pass
	2595	Outer_Full	18.39	20.45	/	Pass
	2610	Outer_Full	18.37	20.48	/	Pass
CP-OFDM 256 QAM	2580	Outer_Full	18.42	20.20	/	Pass
	2595	Outer_Full	18.39	20.47	/	Pass
	2610	Outer_Full	18.44	20.31	/	Pass

3.1.2 30k_SISO_30MHz_NTNV

5G NR n38 SCS=30kHz SISO 30MHz NTV						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2585	Outer_Full	27.08	29.68	/	Pass
	2595	Outer_Full	27.04	29.26	/	Pass
	2605	Outer_Full	27.08	29.39	/	Pass
DFT-s-OFDM QPSK	2585	Outer_Full	27.09	29.67	/	Pass
	2595	Outer_Full	27.10	29.50	/	Pass
	2605	Outer_Full	27.13	29.72	/	Pass
DFT-s-OFDM 16 QAM	2585	Outer_Full	27.12	29.54	/	Pass
	2595	Outer_Full	27.11	29.56	/	Pass
	2605	Outer_Full	27.17	29.62	/	Pass
DFT-s-OFDM 64 QAM	2585	Outer_Full	27.09	29.41	/	Pass
	2595	Outer_Full	27.07	29.54	/	Pass
	2605	Outer_Full	27.11	29.66	/	Pass
DFT-s-OFDM 256 QAM	2585	Outer_Full	27.17	29.32	/	Pass
	2595	Outer_Full	27.20	29.31	/	Pass
	2605	Outer_Full	27.20	29.32	/	Pass
CP-OFDM QPSK	2585	Outer_Full	28.06	30.37	/	Pass
	2595	Outer_Full	28.08	30.55	/	Pass
	2605	Outer_Full	28.09	30.75	/	Pass
CP-OFDM 16 QAM	2585	Outer_Full	28.23	31.07	/	Pass
	2595	Outer_Full	28.18	31.52	/	Pass
	2605	Outer_Full	28.14	31.54	/	Pass
CP-OFDM 64 QAM	2585	Outer_Full	28.07	31.32	/	Pass
	2595	Outer_Full	28.11	31.87	/	Pass
	2605	Outer_Full	28.17	32.06	/	Pass
CP-OFDM 256 QAM	2585	Outer_Full	28.13	30.40	/	Pass
	2595	Outer_Full	28.13	30.56	/	Pass
	2605	Outer_Full	28.13	30.33	/	Pass

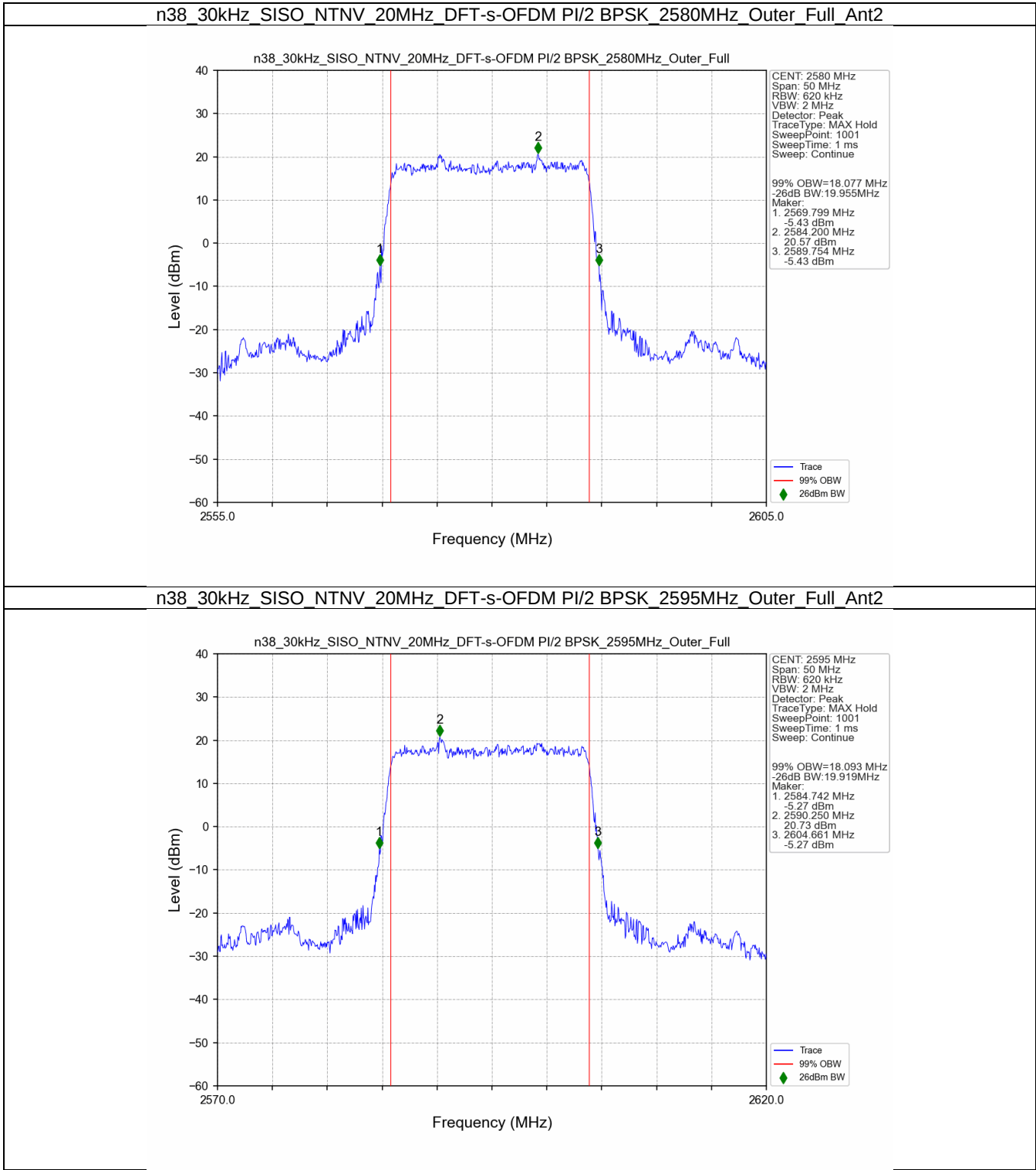
3.1.3 30k_SISO_40MHz_NTNV

5G NR n38 SCS=30kHz SISO 40MHz NTV						
Modulation	Frequency	RB	99% Bandwidth	26dB Bandwidth	Limit	Verdict

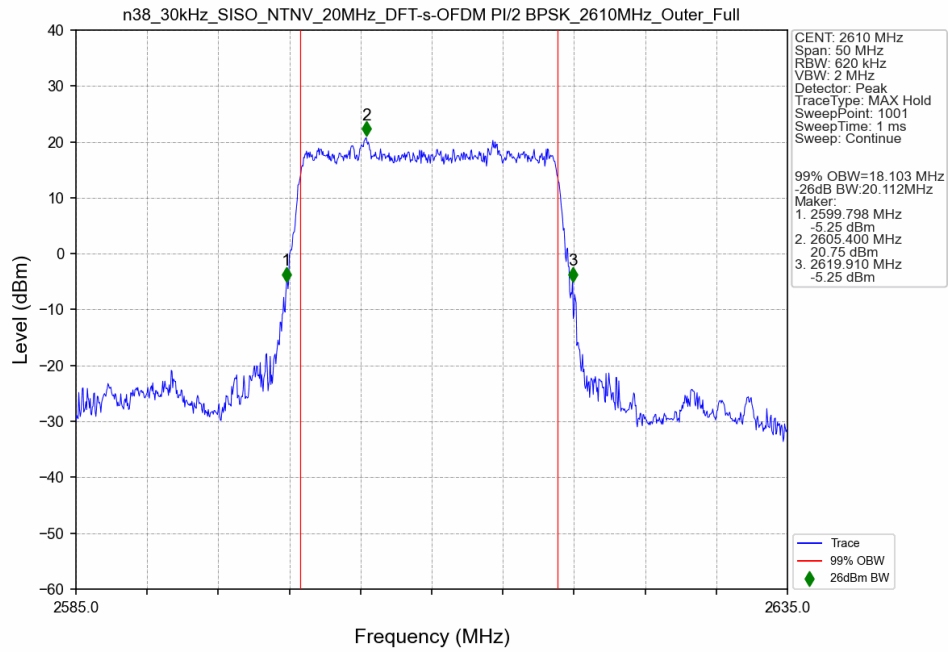
	(MHz)	Allocation	(MHz)	(MHz)	(MHz)	
DFT-s-OFDM PI/2 BPSK	2590	Outer_Full	36.02	38.57	/	Pass
	2595	Outer_Full	36.02	38.89	/	Pass
	2600	Outer_Full	36.01	38.70	/	Pass
DFT-s-OFDM QPSK	2590	Outer_Full	36.06	38.90	/	Pass
	2595	Outer_Full	36.11	39.02	/	Pass
	2600	Outer_Full	36.03	38.95	/	Pass
DFT-s-OFDM 16 QAM	2590	Outer_Full	36.05	38.64	/	Pass
	2595	Outer_Full	35.95	38.74	/	Pass
	2600	Outer_Full	36.04	38.88	/	Pass
DFT-s-OFDM 64 QAM	2590	Outer_Full	36.05	38.91	/	Pass
	2595	Outer_Full	35.99	39.06	/	Pass
	2600	Outer_Full	36.13	38.93	/	Pass
DFT-s-OFDM 256 QAM	2590	Outer_Full	35.97	38.89	/	Pass
	2595	Outer_Full	35.91	38.89	/	Pass
	2600	Outer_Full	36.01	38.93	/	Pass
CP-OFDM QPSK	2590	Outer_Full	38.05	40.87	/	Pass
	2595	Outer_Full	38.07	41.15	/	Pass
	2600	Outer_Full	38.26	40.93	/	Pass
CP-OFDM 16 QAM	2590	Outer_Full	38.17	41.15	/	Pass
	2595	Outer_Full	38.27	41.07	/	Pass
	2600	Outer_Full	38.27	40.83	/	Pass
CP-OFDM 64 QAM	2590	Outer_Full	38.08	40.76	/	Pass
	2595	Outer_Full	38.04	41.10	/	Pass
	2600	Outer_Full	38.06	40.95	/	Pass
CP-OFDM 256 QAM	2590	Outer_Full	38.02	41.17	/	Pass
	2595	Outer_Full	38.03	41.06	/	Pass
	2600	Outer_Full	38.08	41.16	/	Pass

3.2 Test Graph

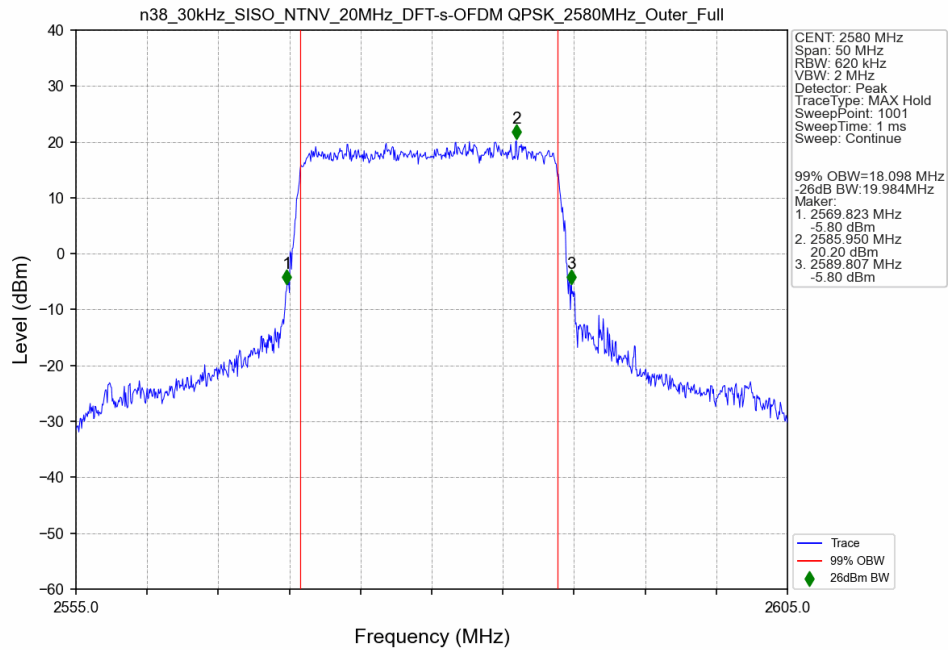
3.2.1 30k_SISO_20MHz_NTNV



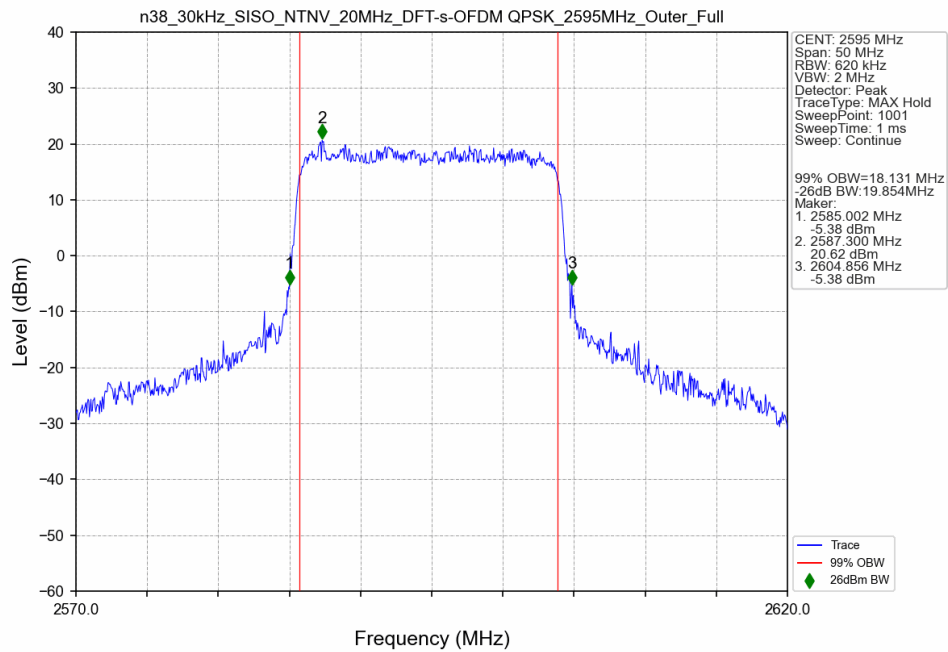
n38 30kHz SISO NTN 20MHz DFT-s-OFDM PI/2 BPSK 2610MHz Outer Full Ant2



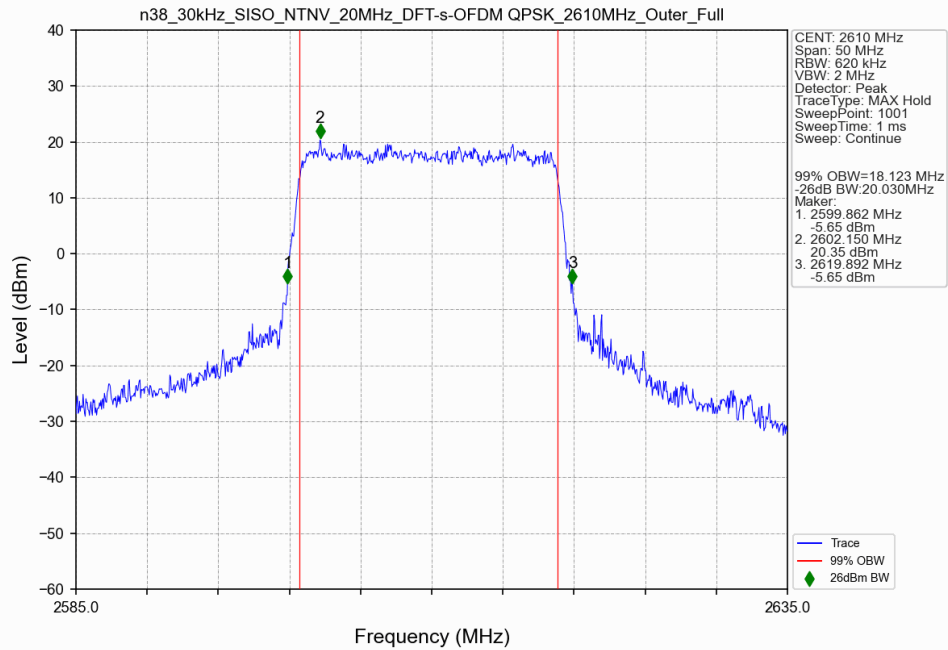
n38 30kHz SISO NTN 20MHz DFT-s-OFDM QPSK 2580MHz Outer Full Ant2



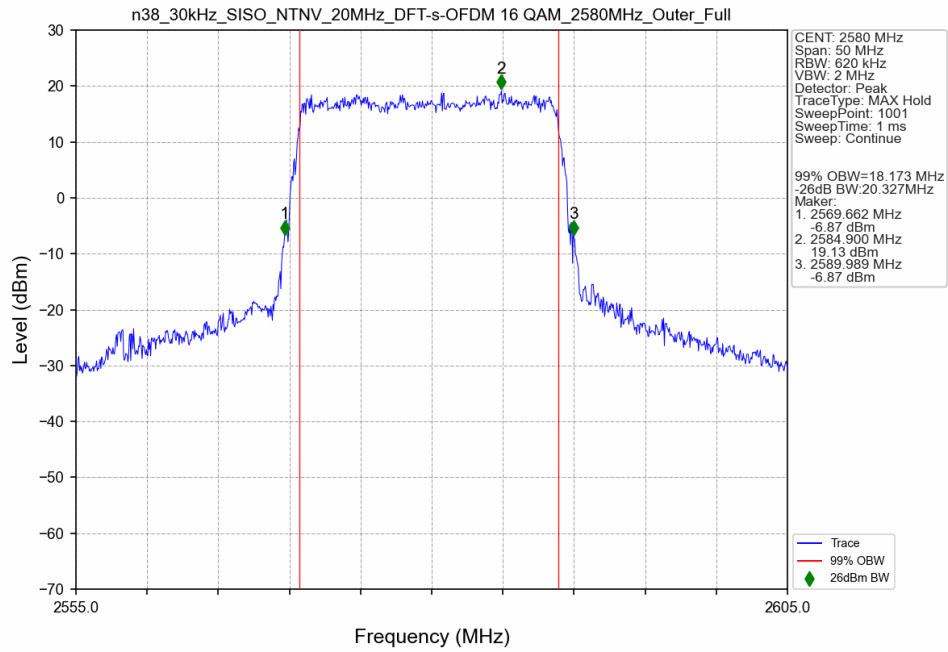
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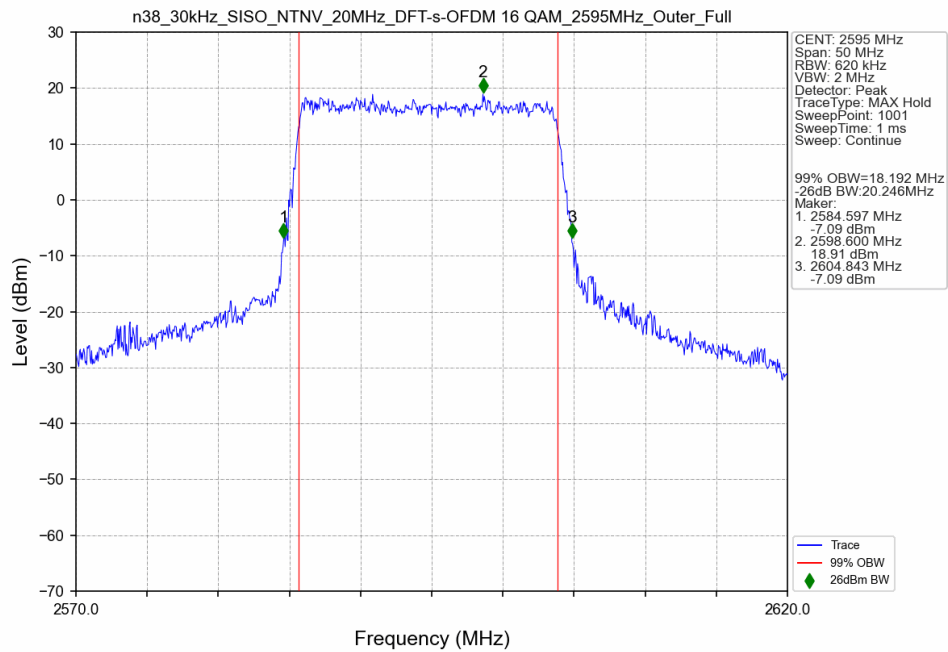
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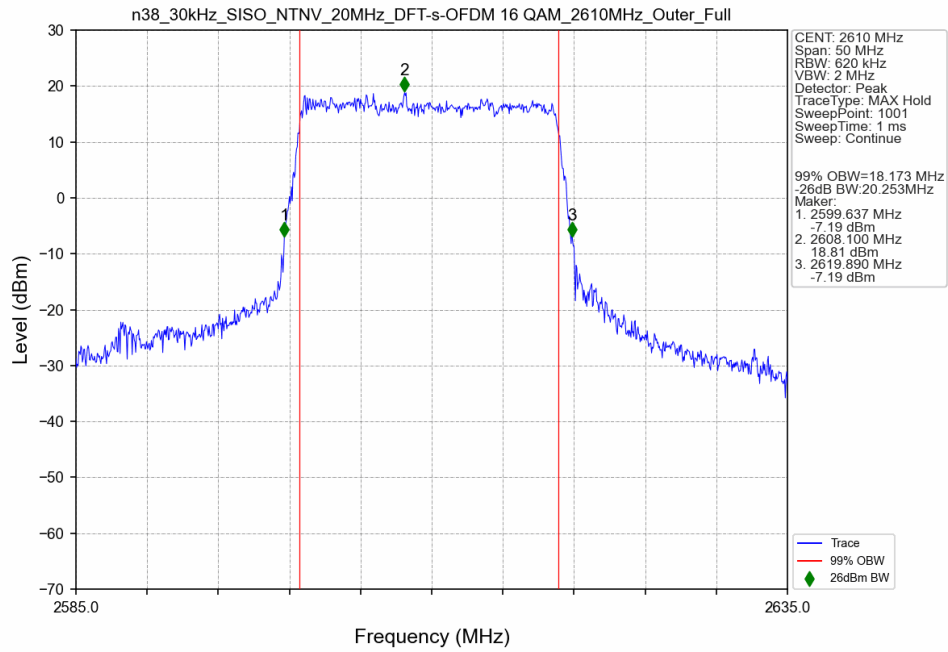
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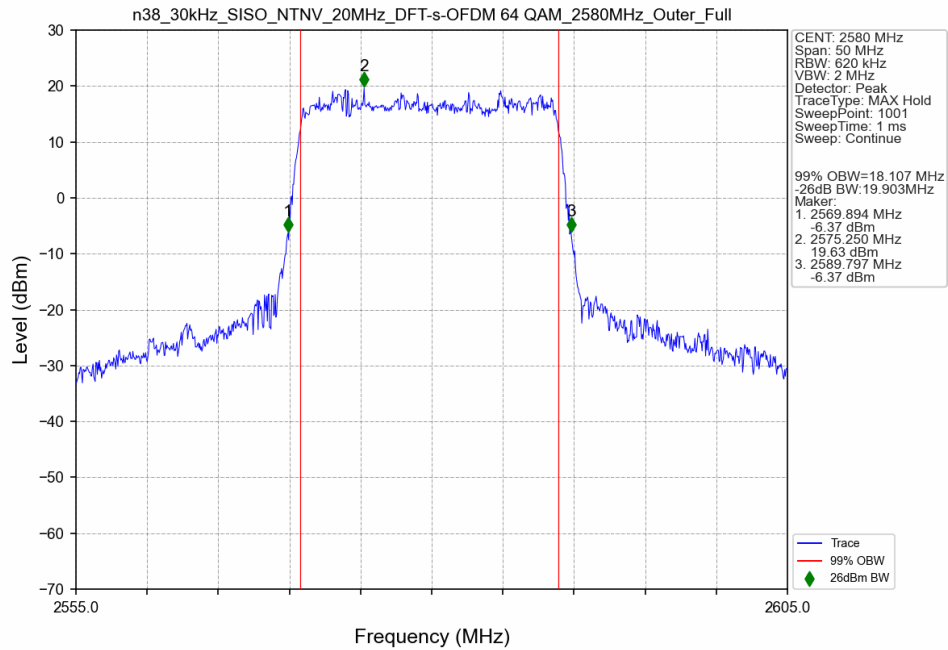
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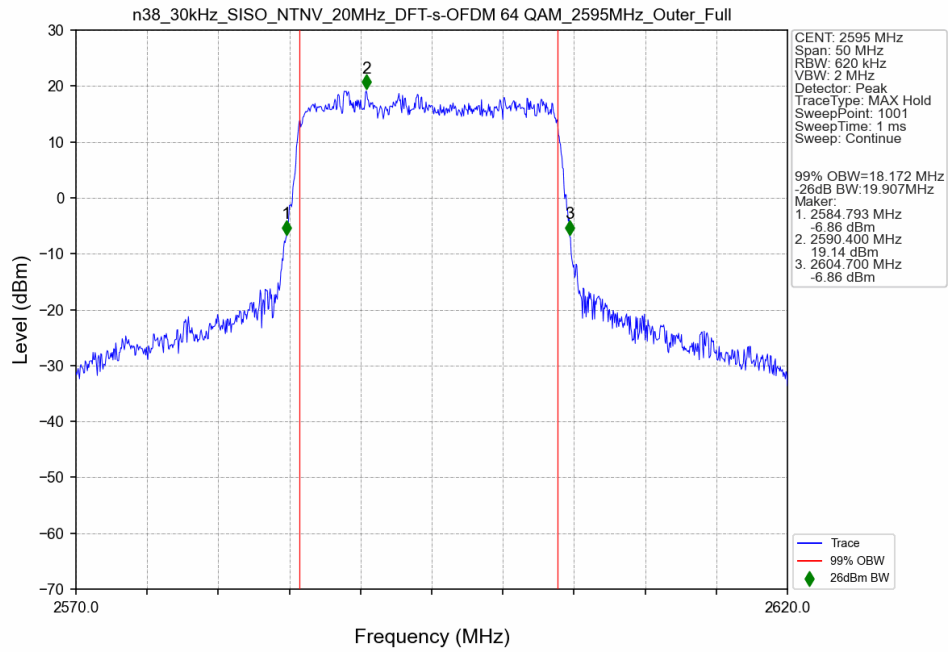
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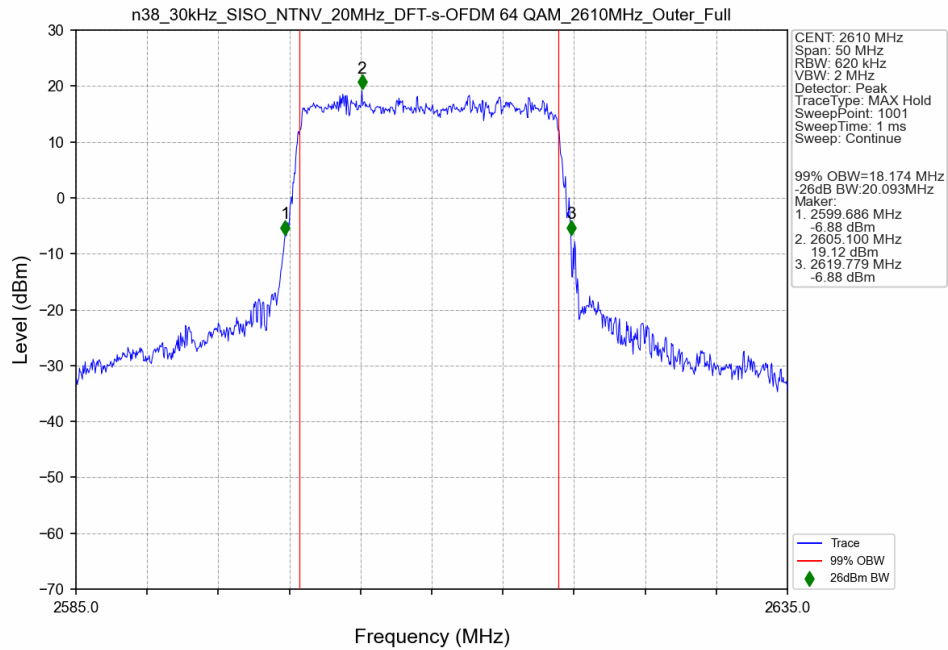
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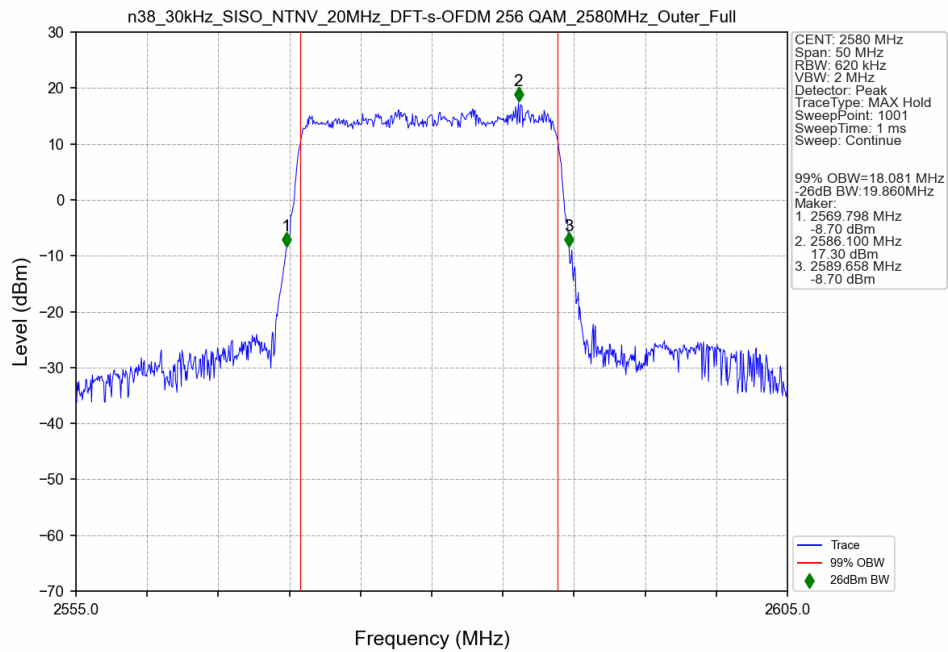
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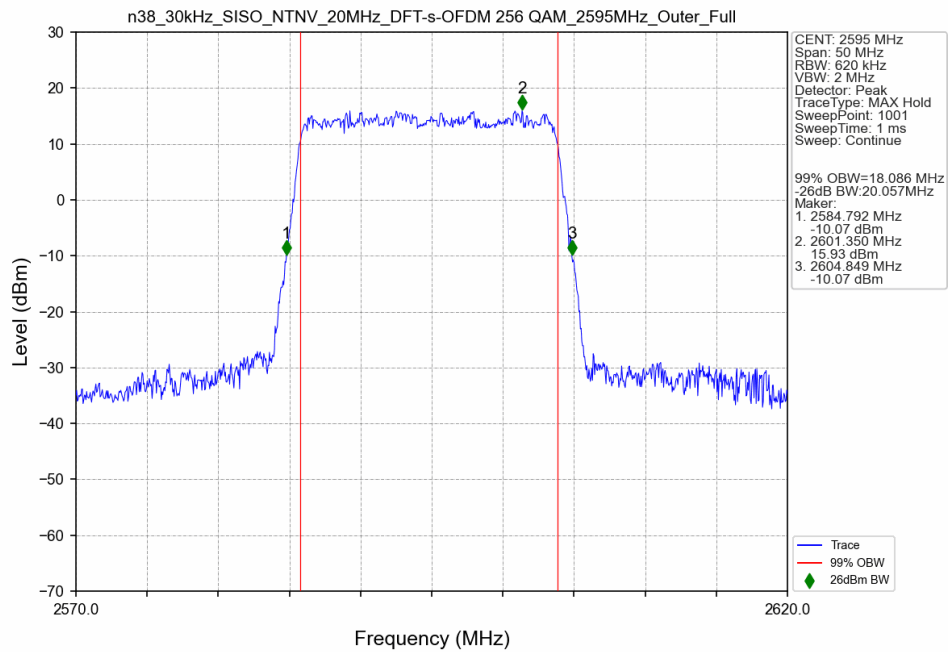
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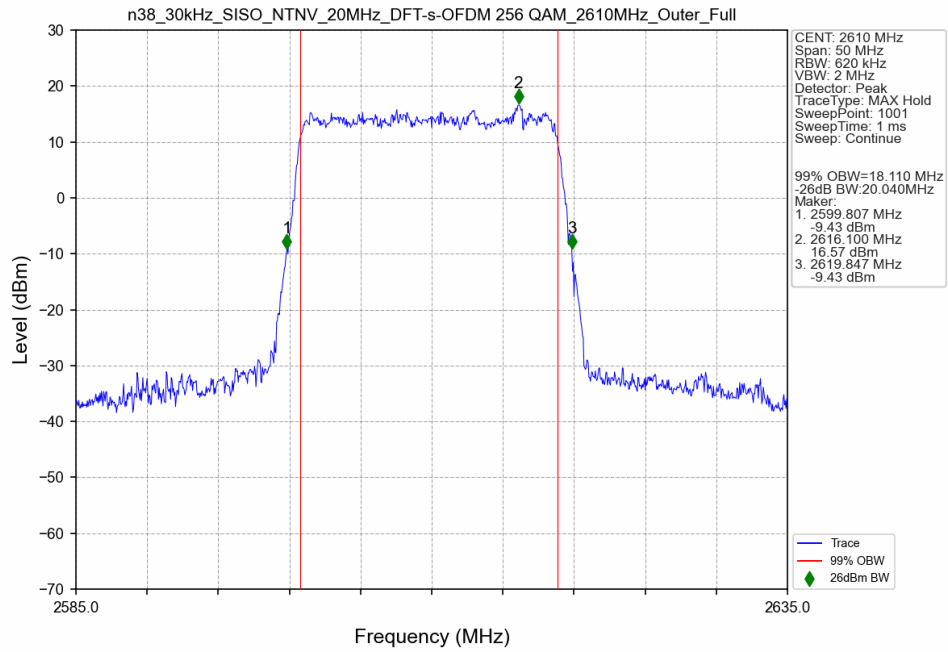
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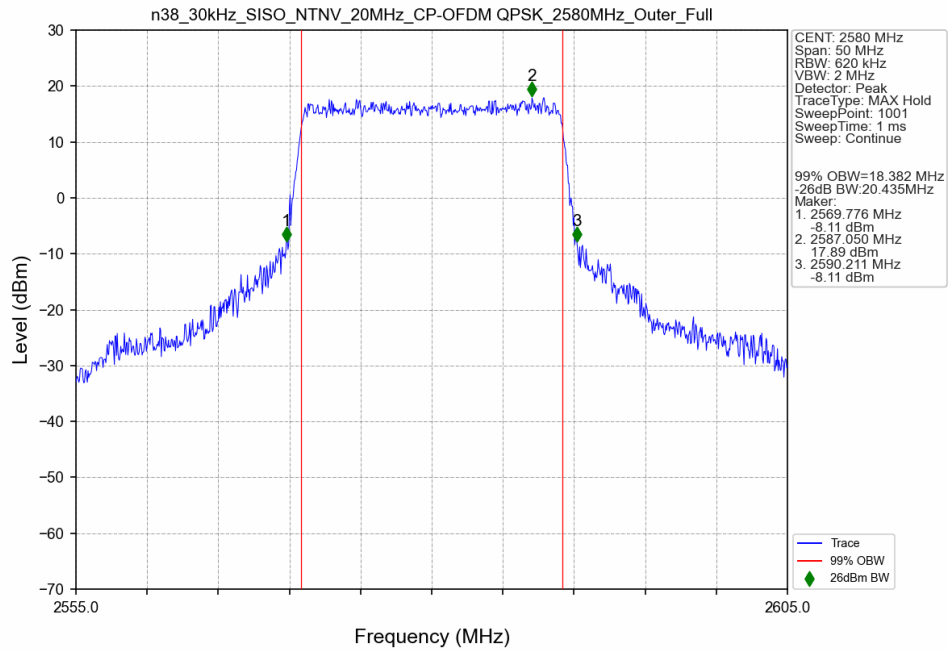
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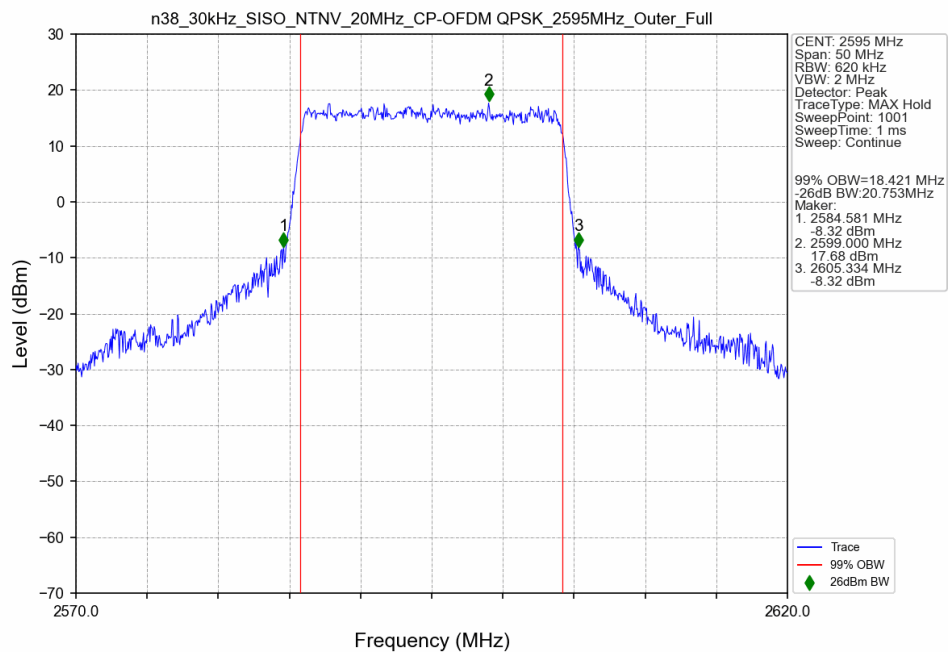
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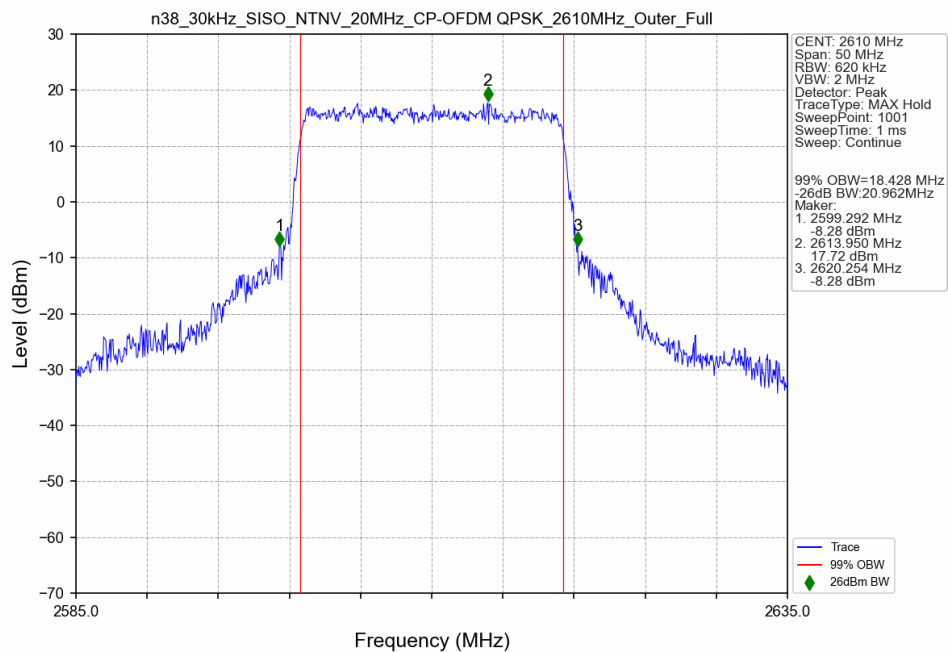
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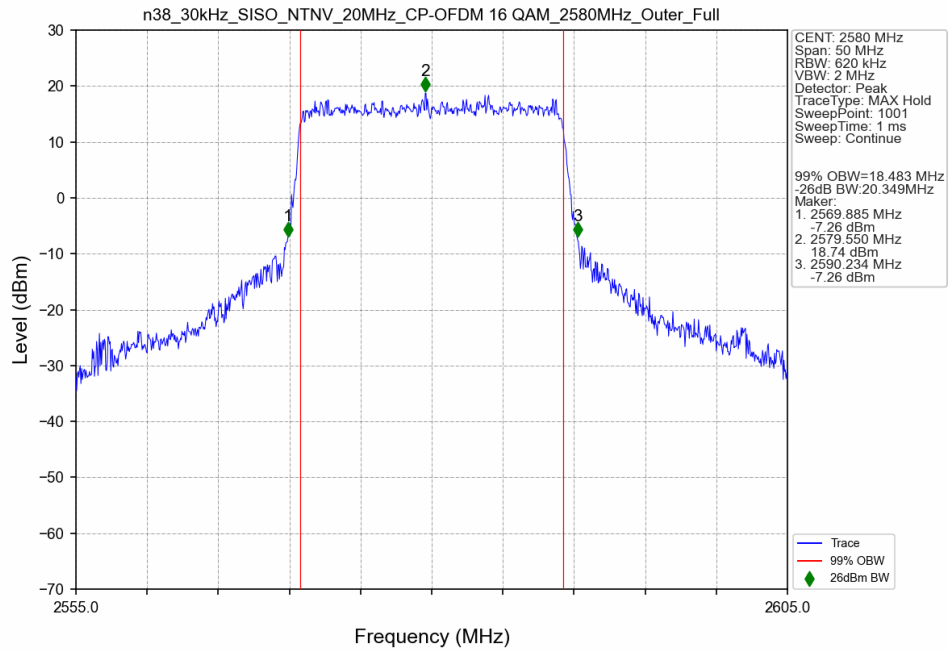
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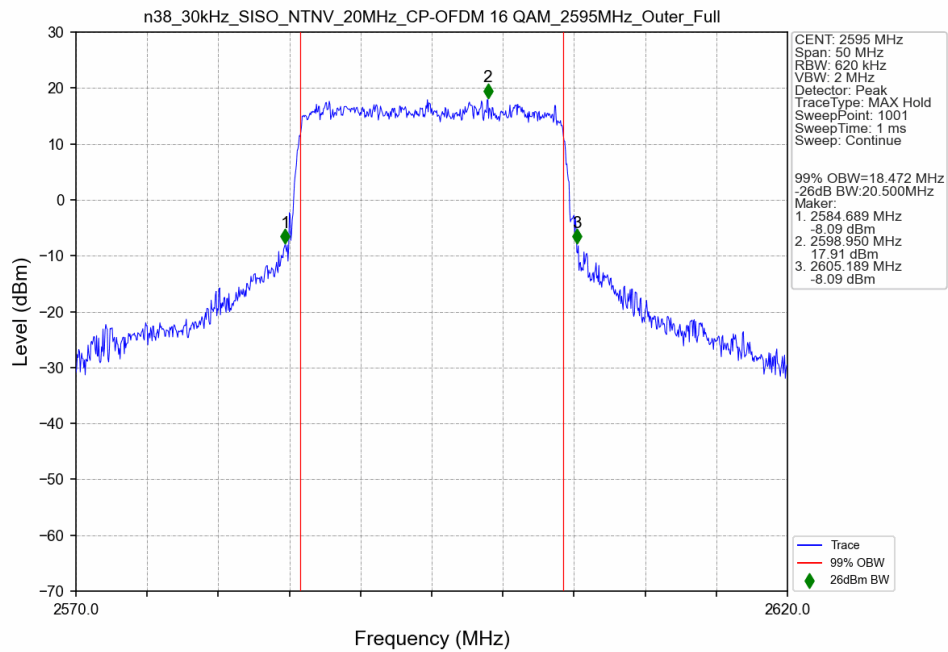
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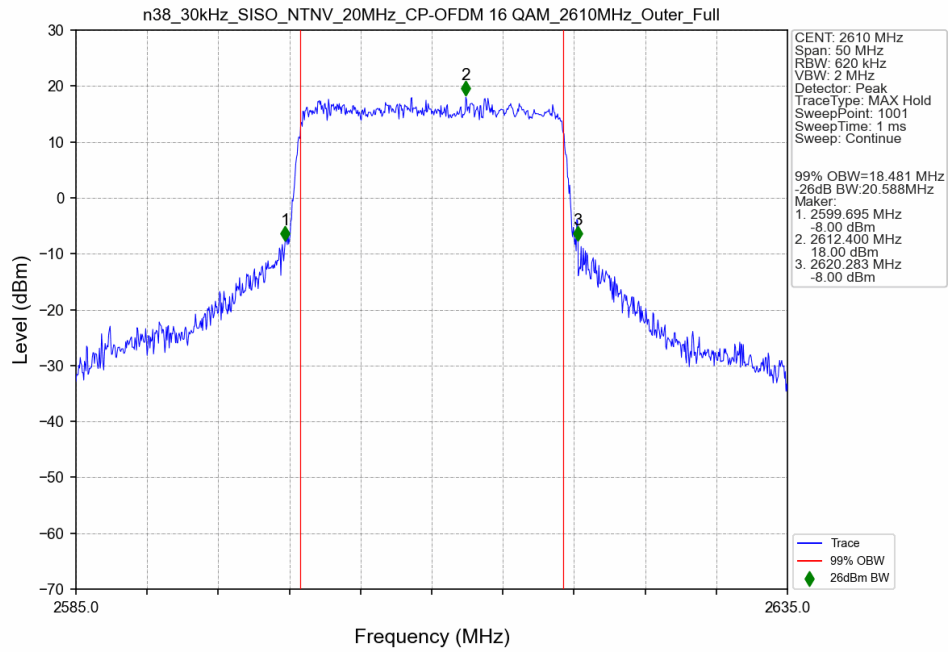
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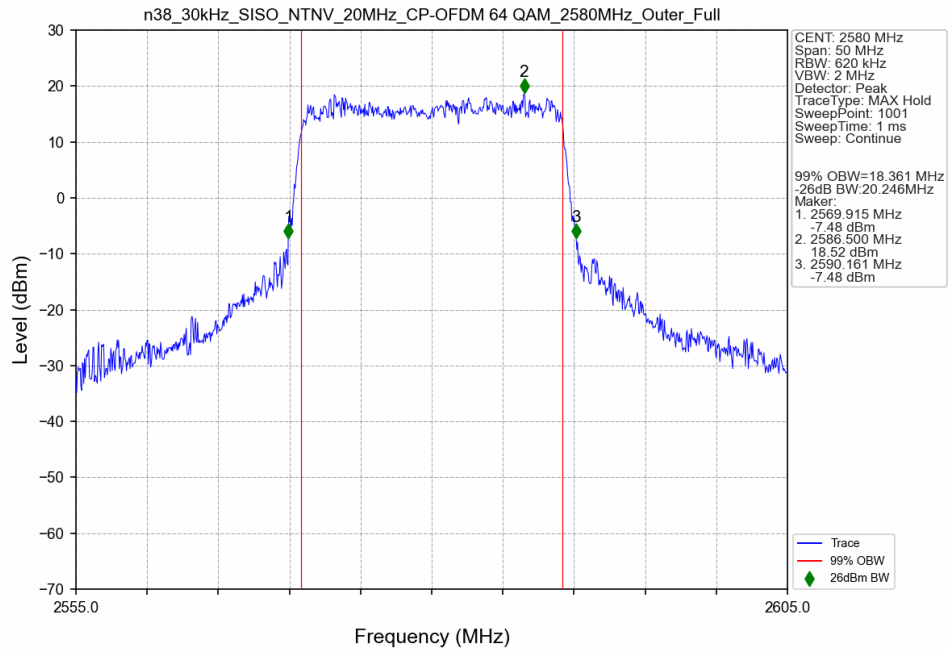
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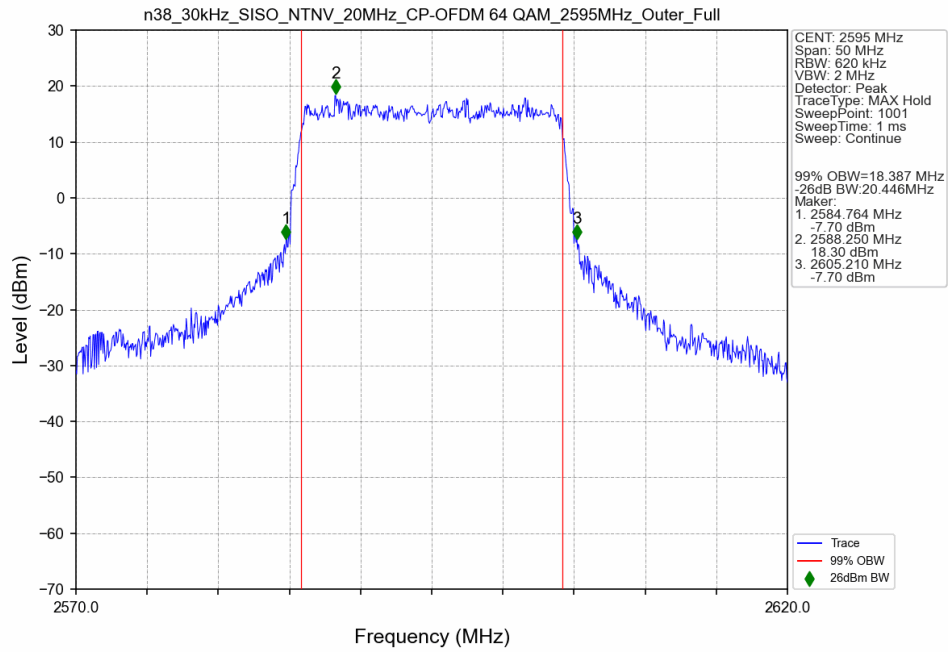
n38_30kHz_SISO_NTNV_20MHz_CP-OFDM 16 QAM 2610MHz_Outer_Full_Ant2



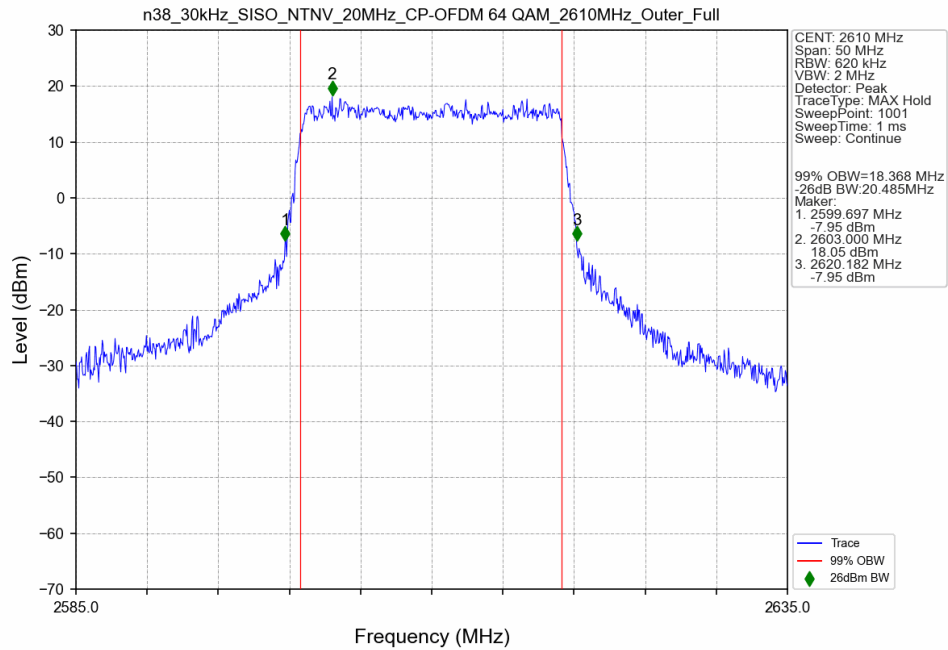
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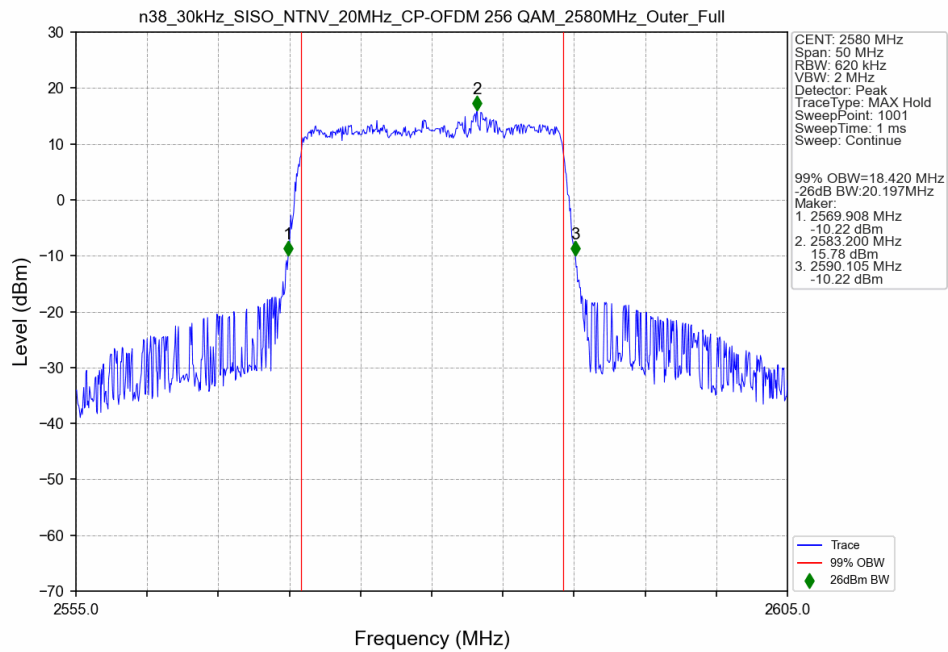
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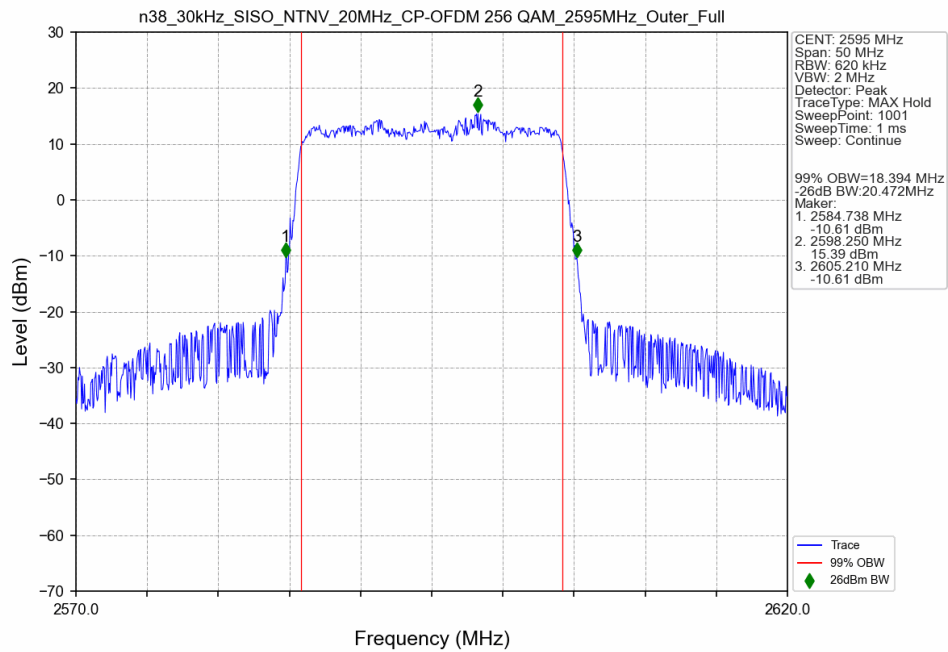
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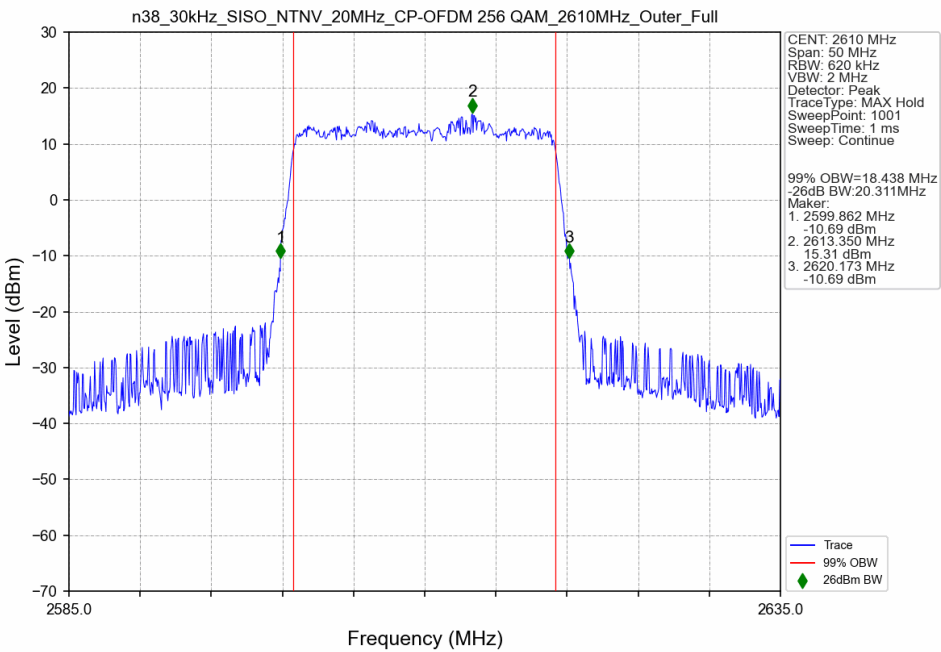


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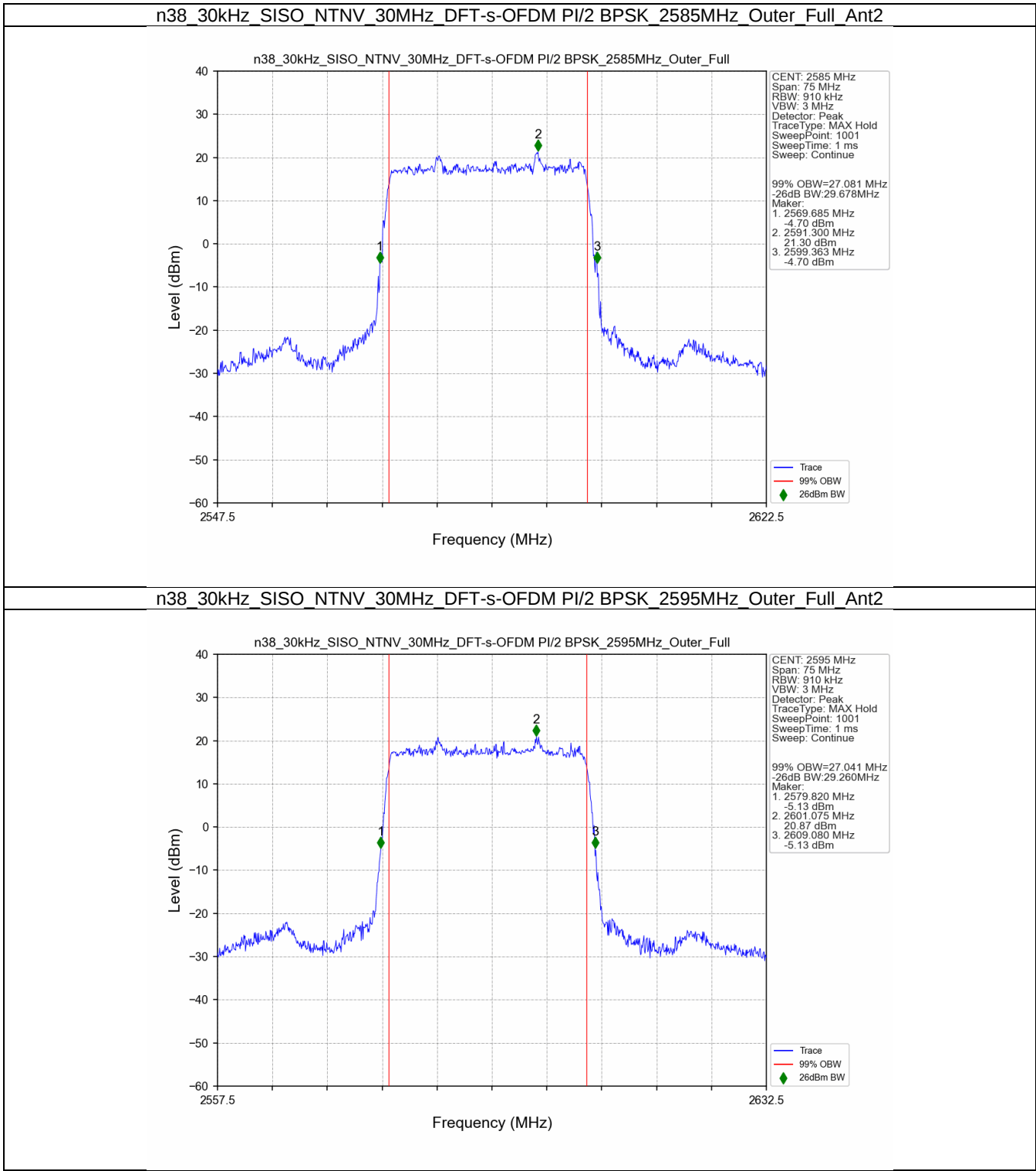


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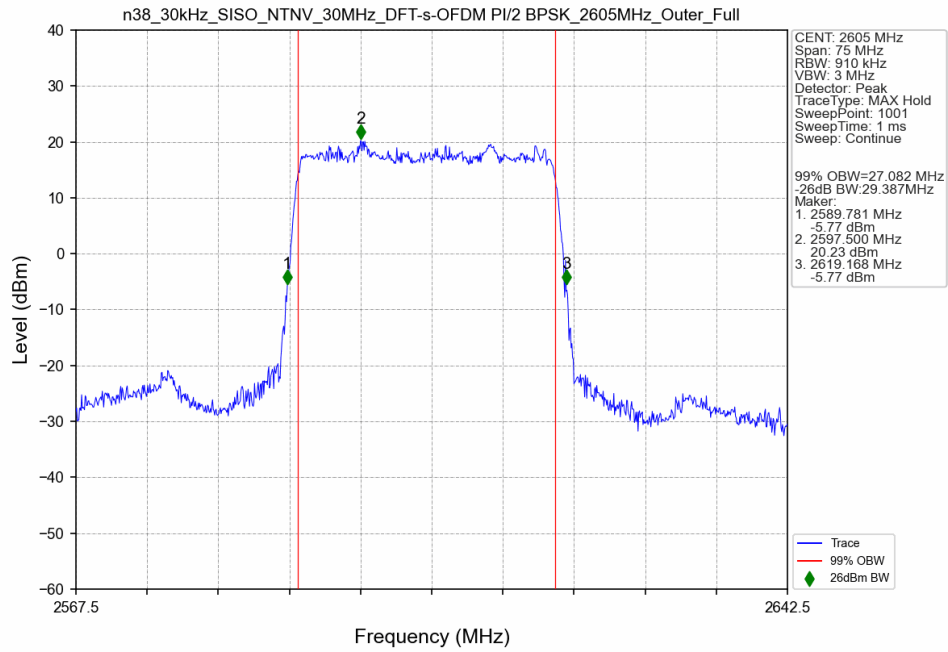




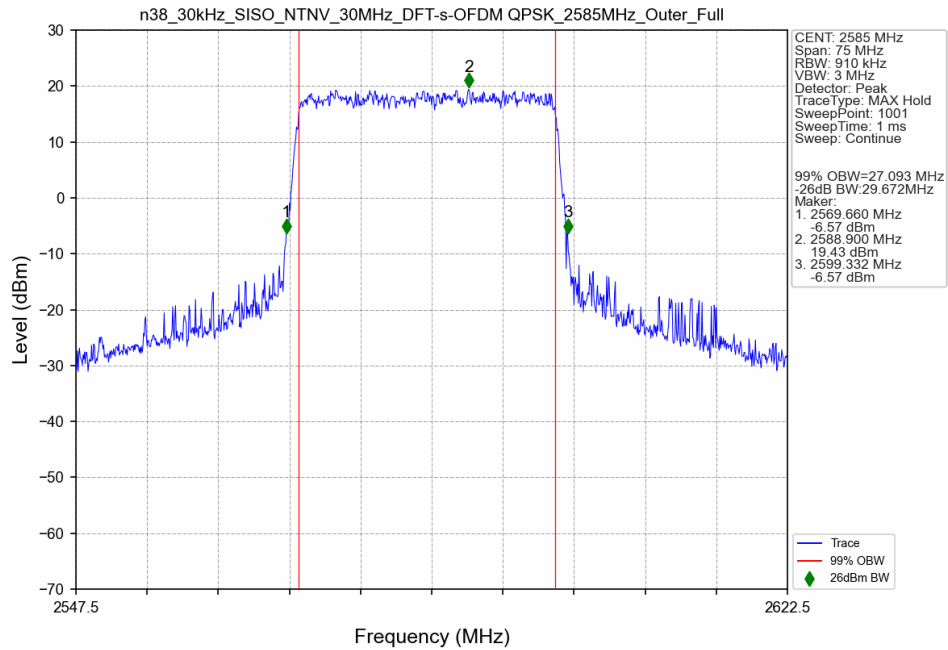
3.2.2 30k_SISO_30MHz_NTNV



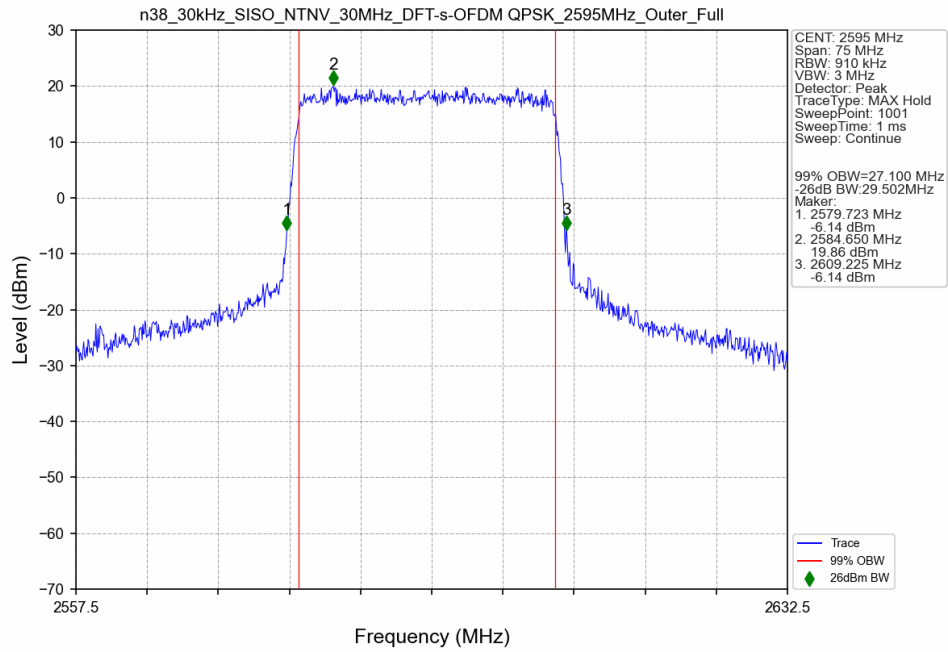
n38 30kHz SISO NTN 30MHz DFT-s-OFDM PI/2 BPSK 2605MHz Outer Full Ant2



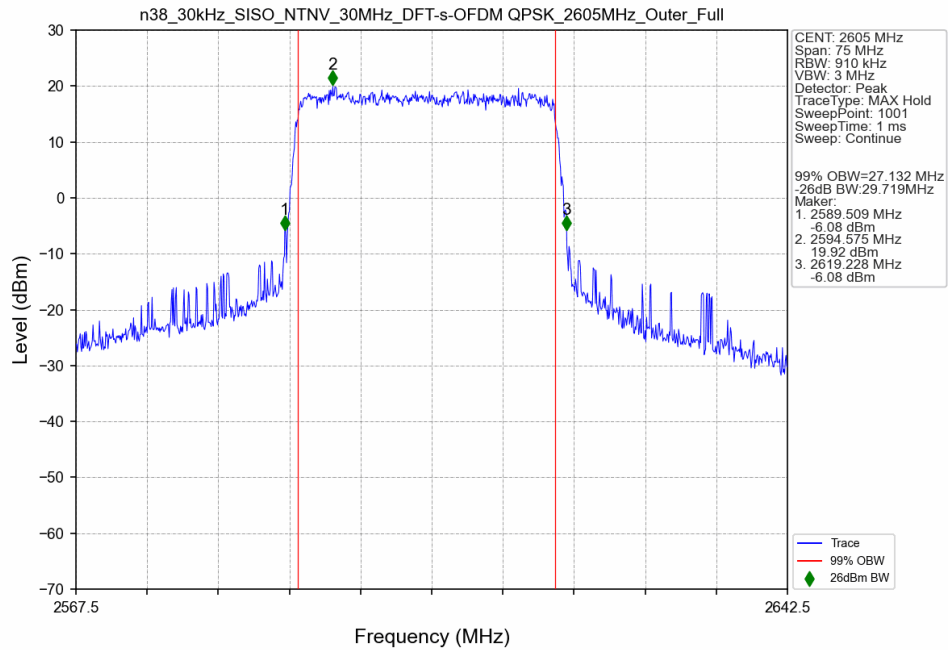
n38 30kHz SISO NTN 30MHz DFT-s-OFDM QPSK 2585MHz Outer Full Ant2



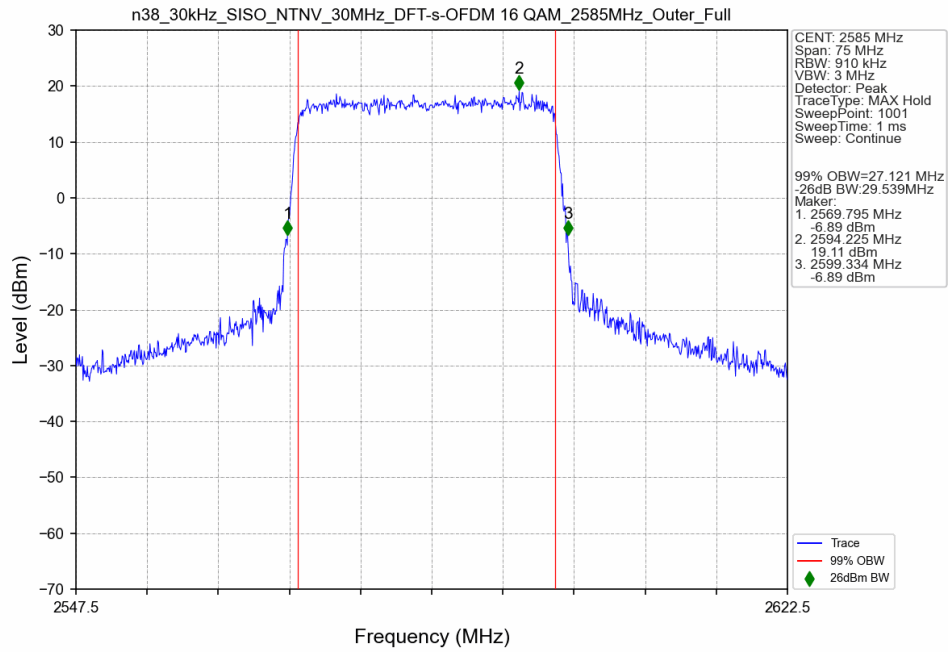
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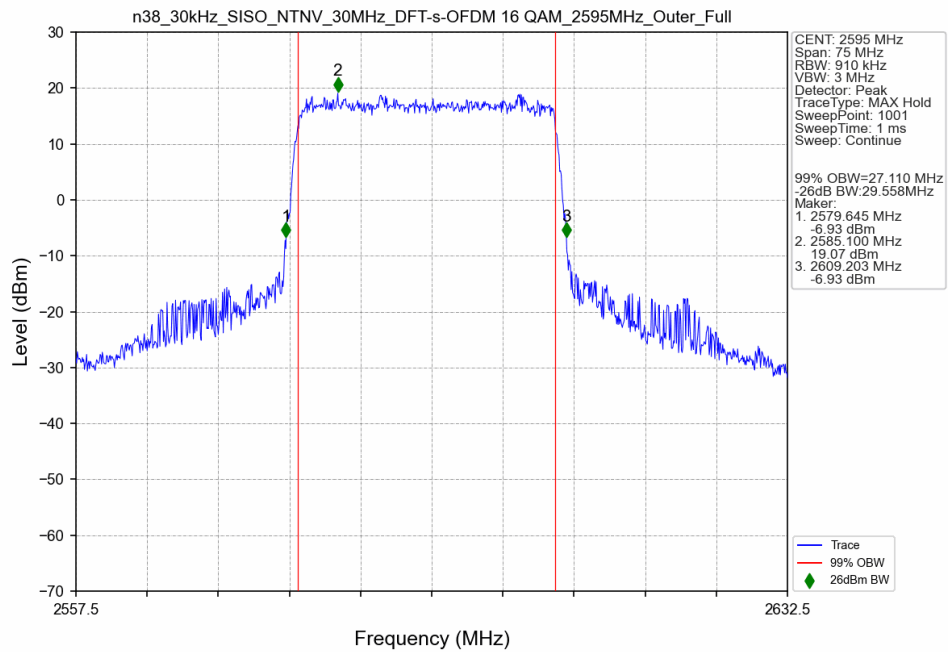
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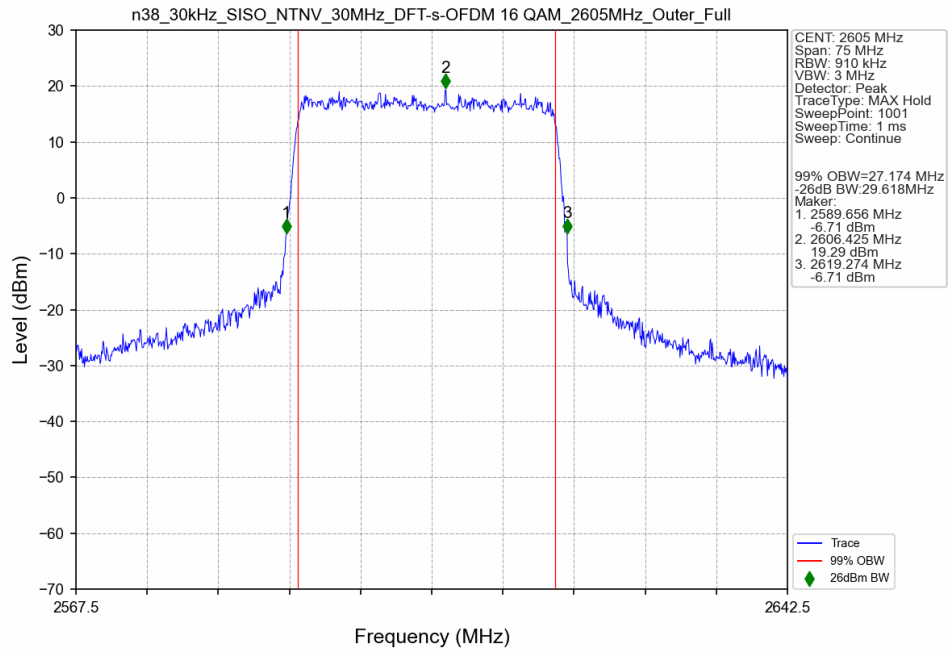
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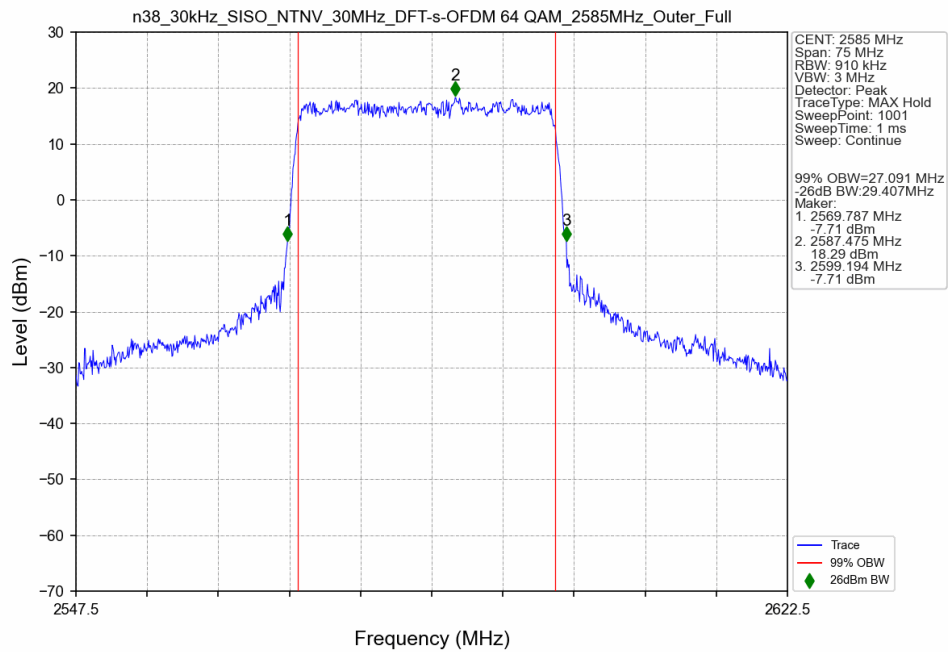
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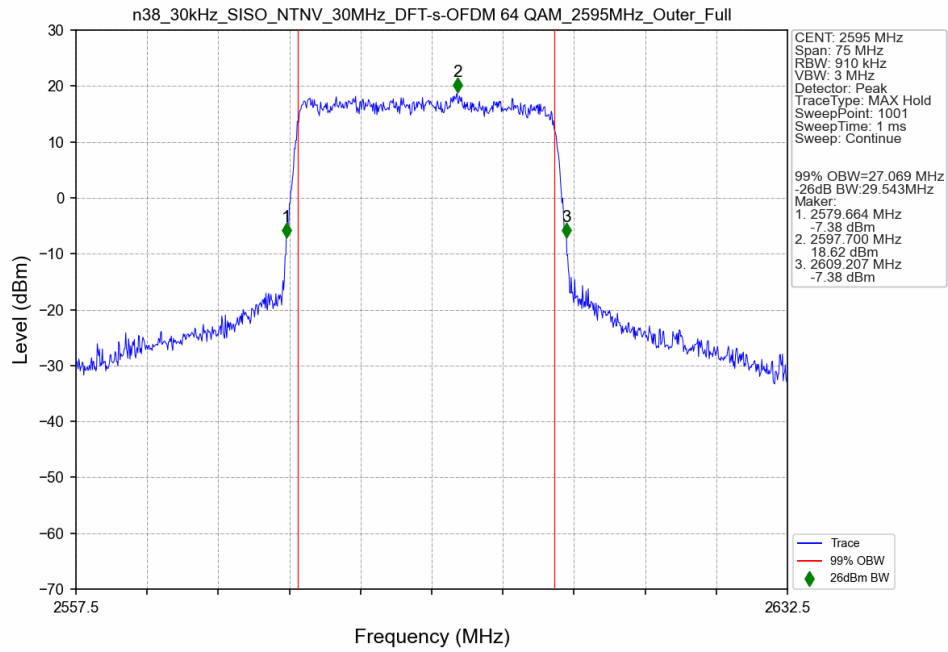
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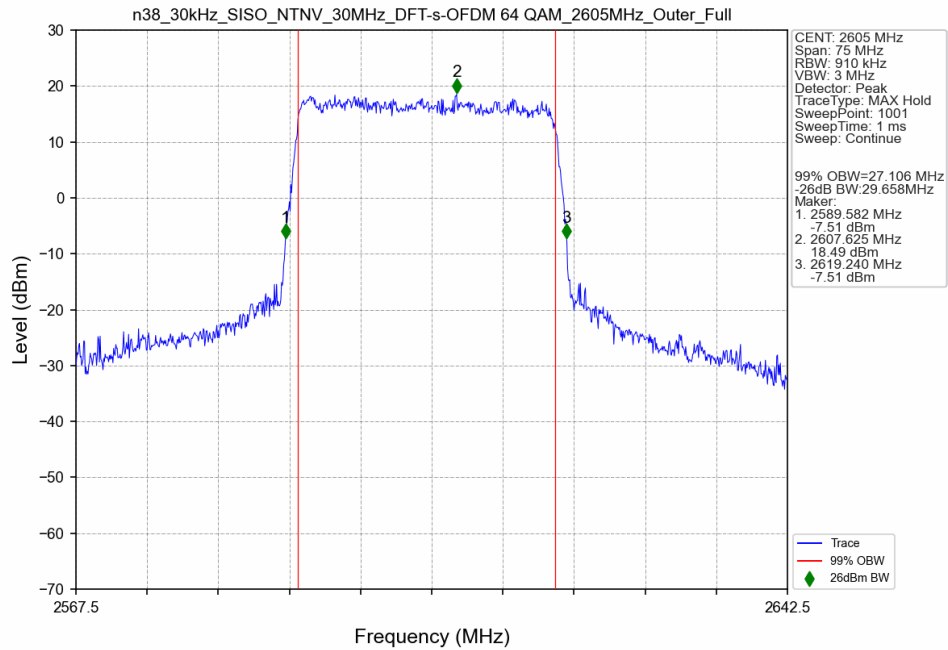
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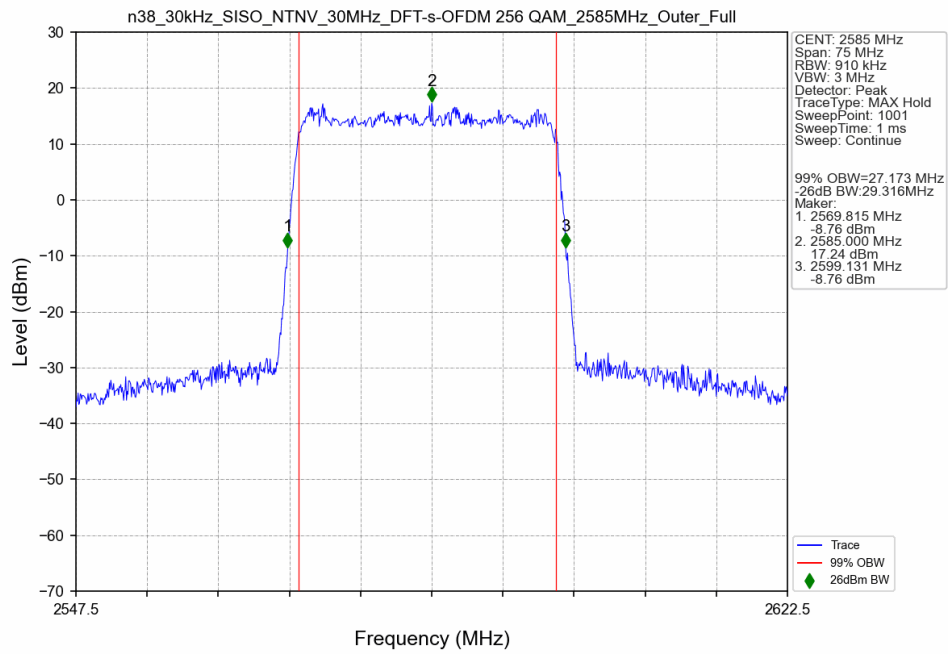
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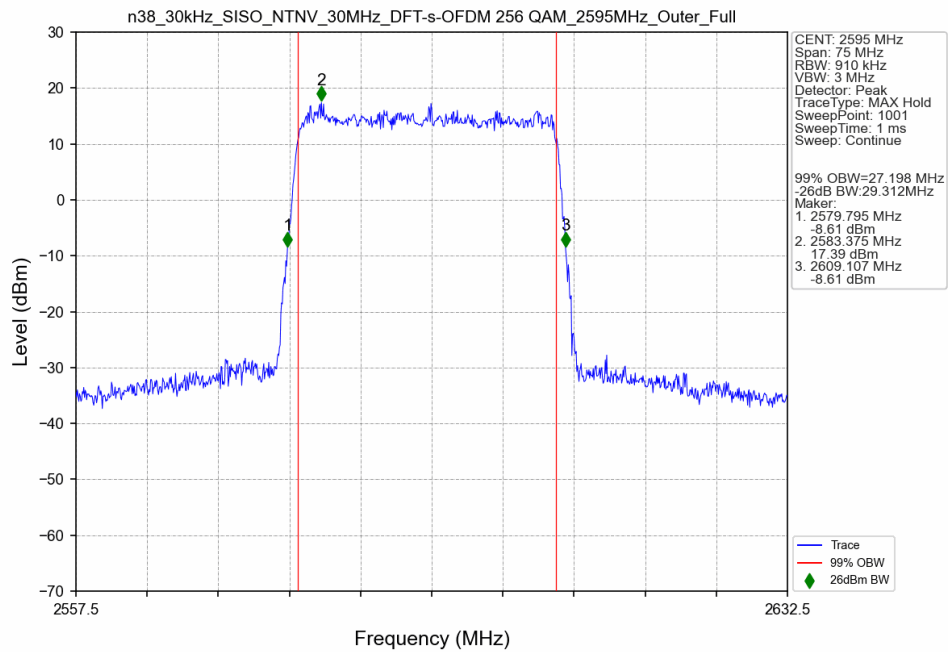
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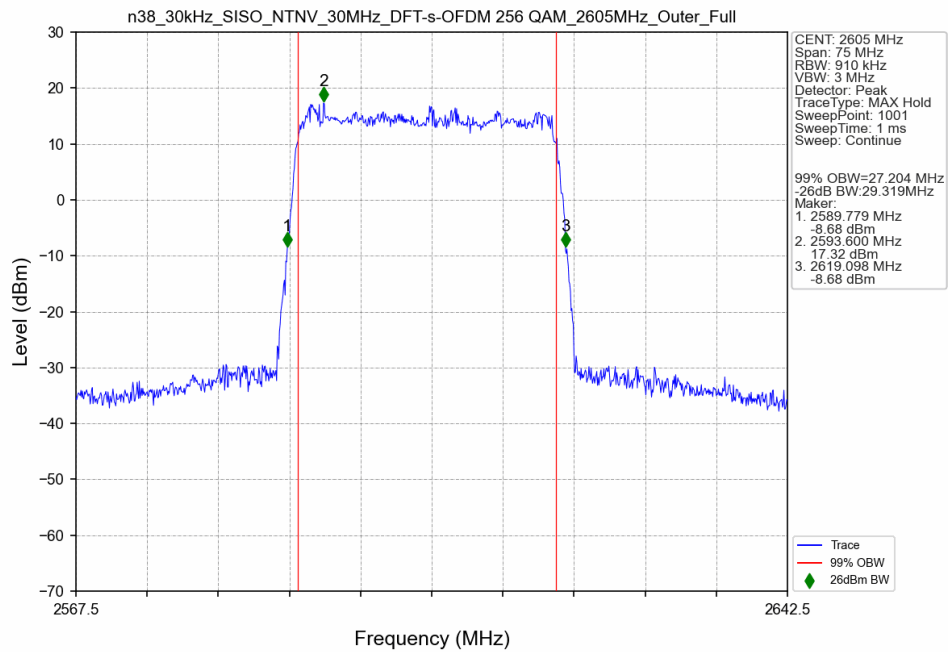
n38 30kHz SISO NTN 30MHz DFT-s-OFDM 256 QAM 2585MHz Outer Full Ant2



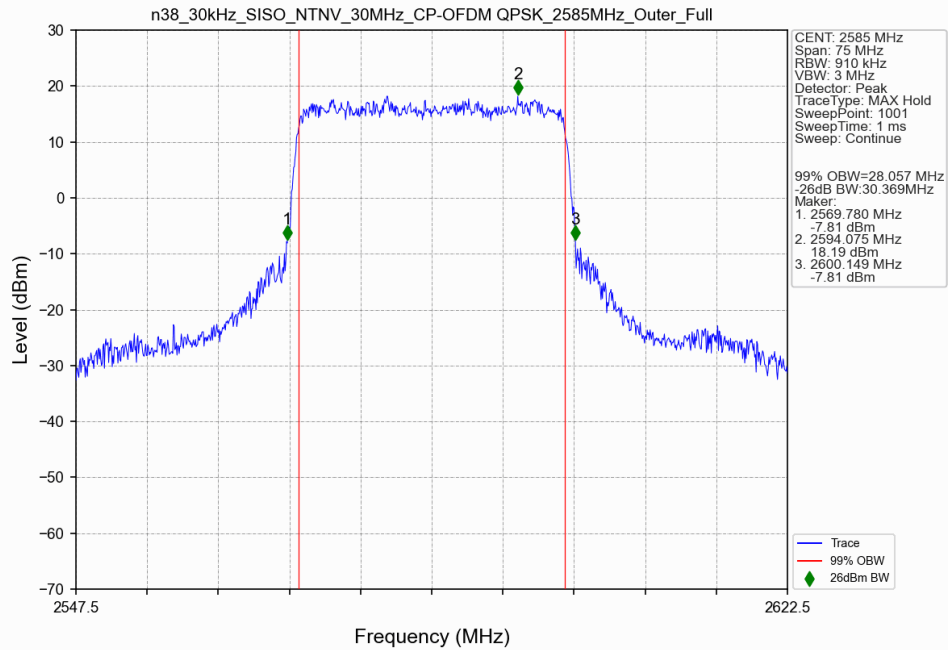
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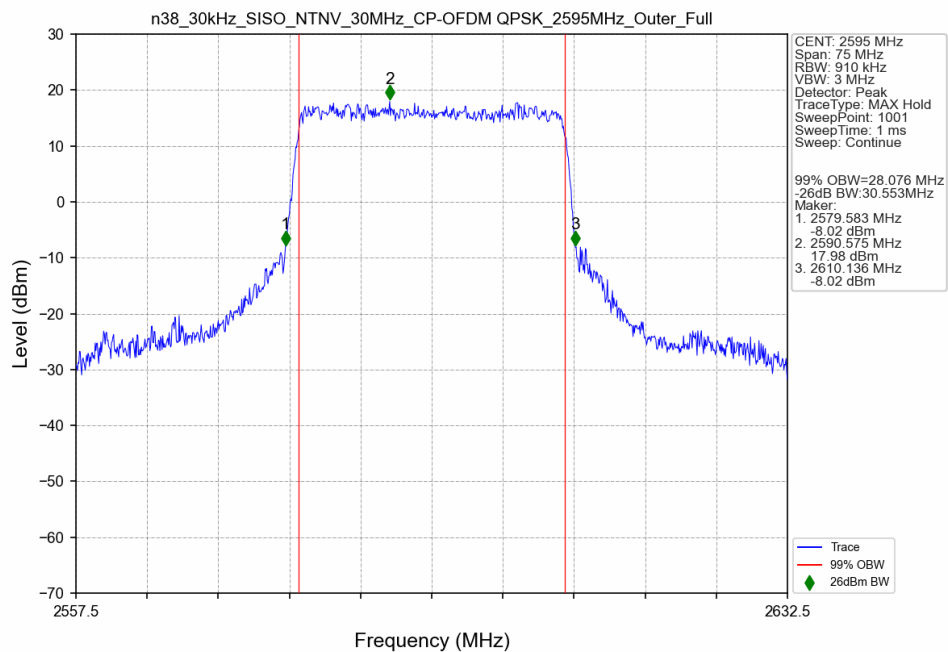
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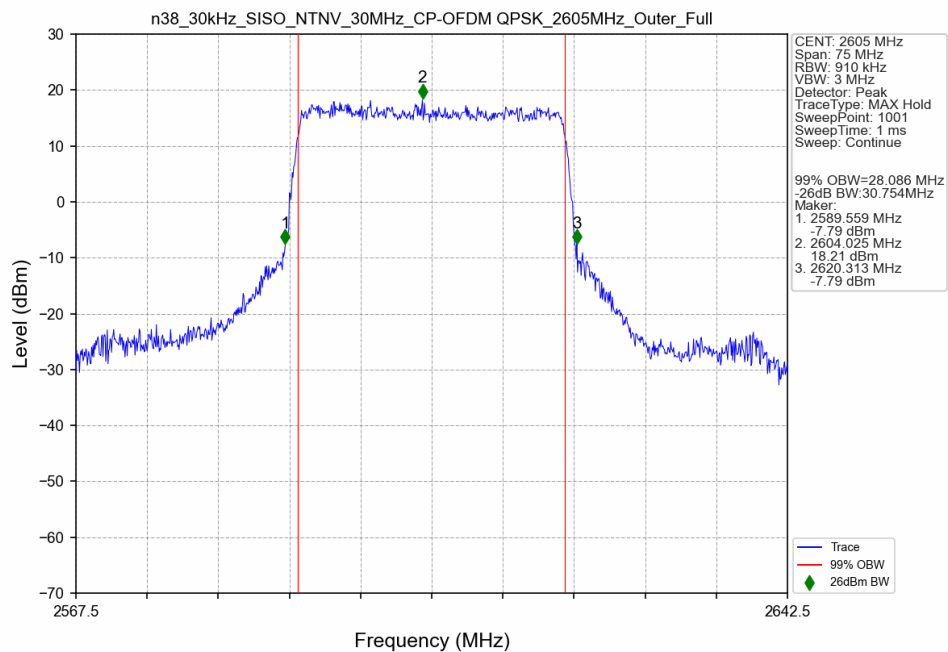
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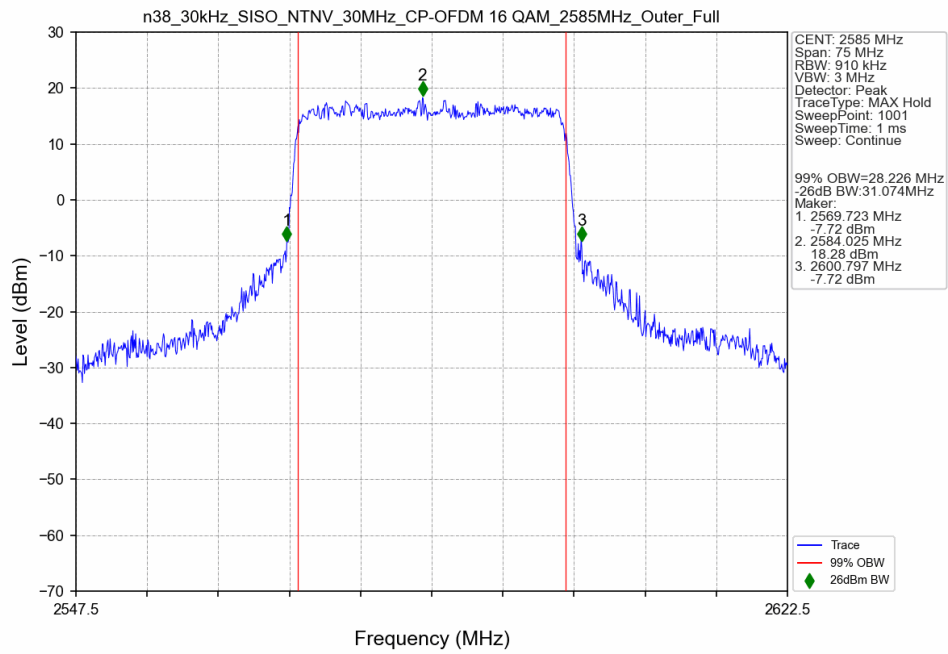
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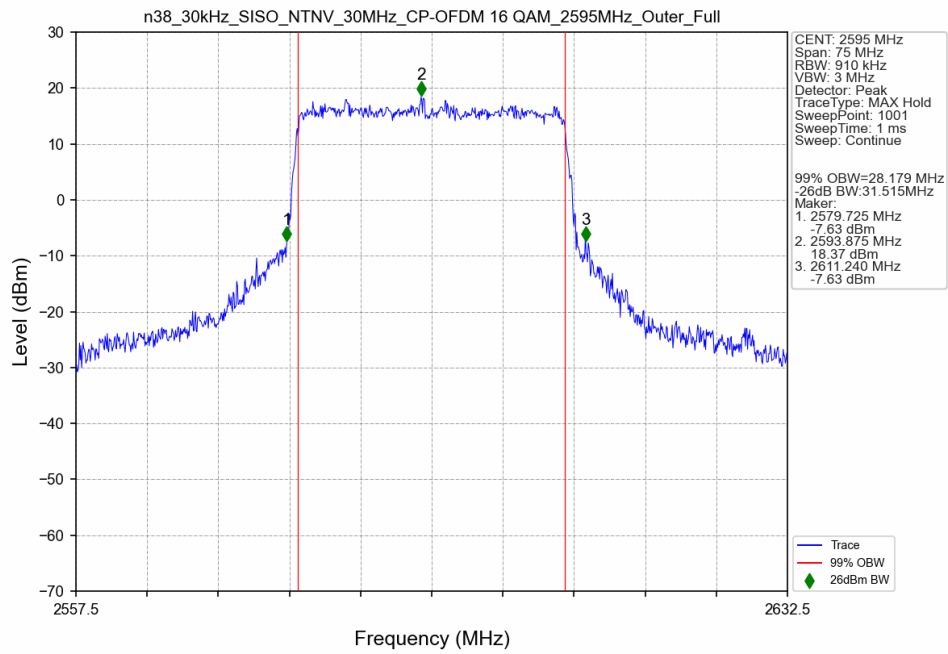
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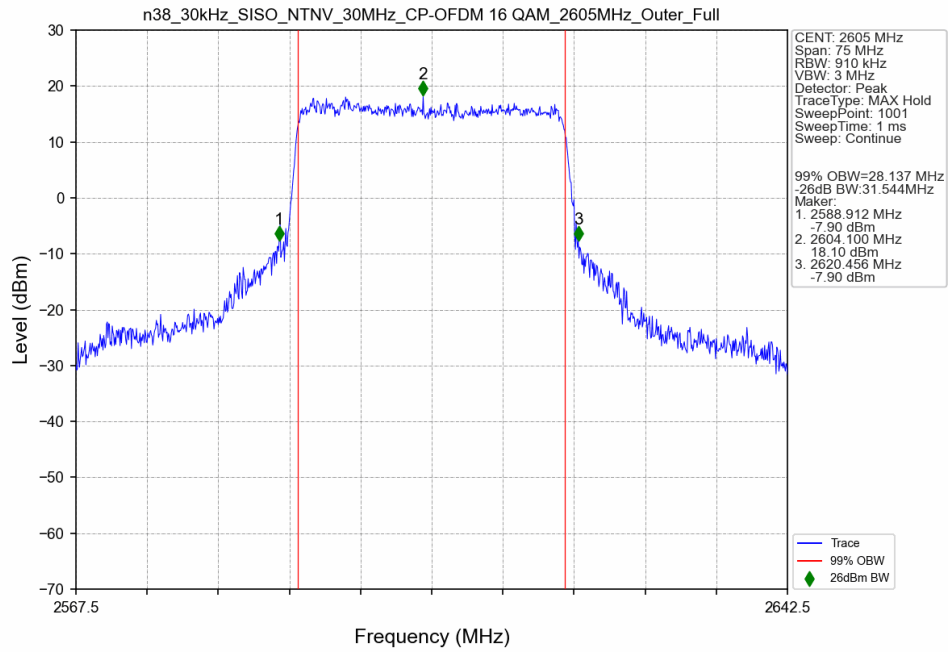
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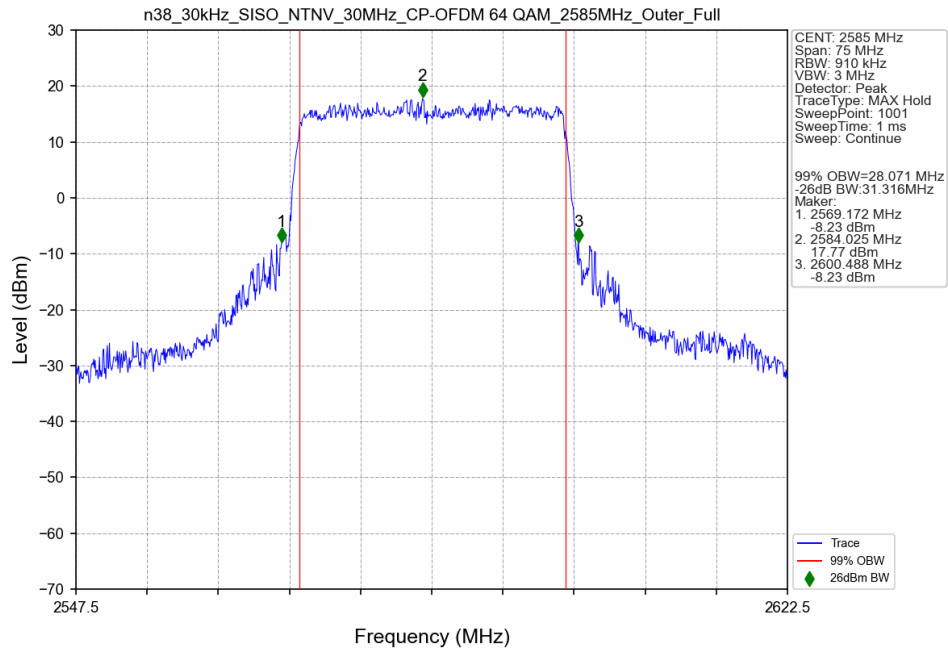
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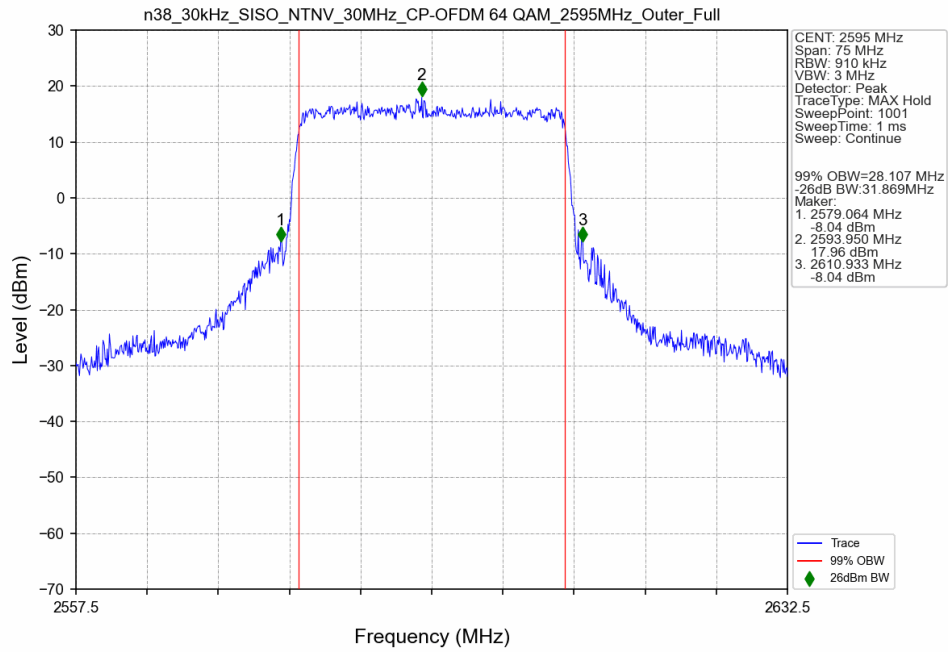
n38_30kHz_SISO_NTNV_30MHz_CP-OFDM 16 QAM 2605MHz_Outer_Full Ant2



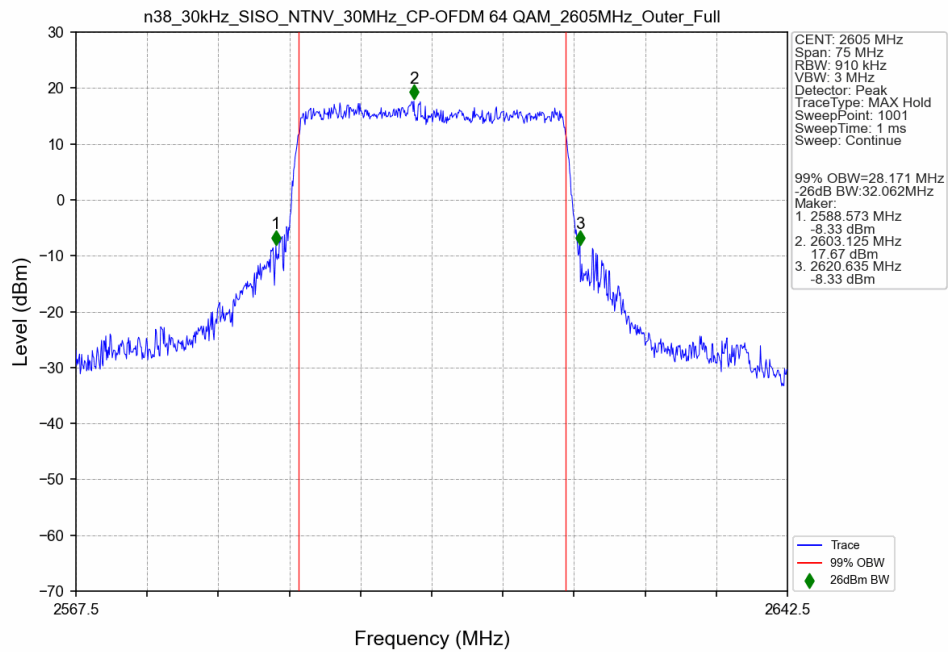
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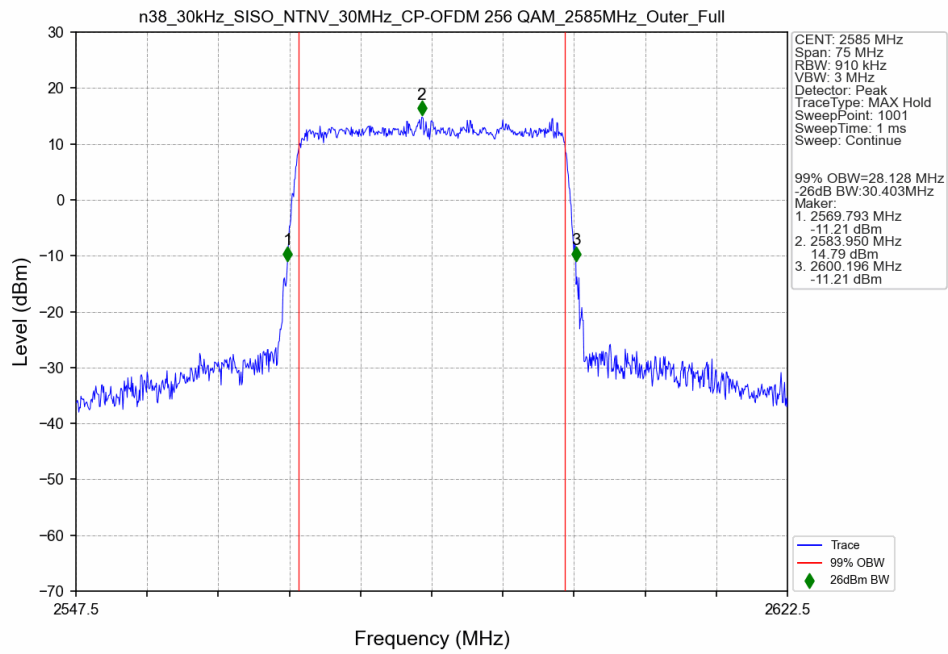
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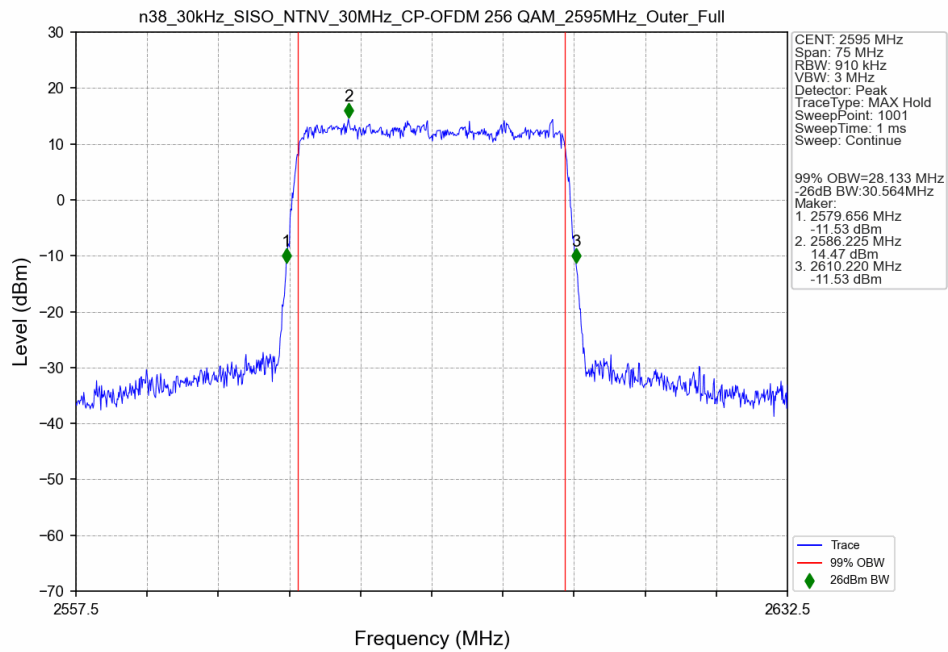
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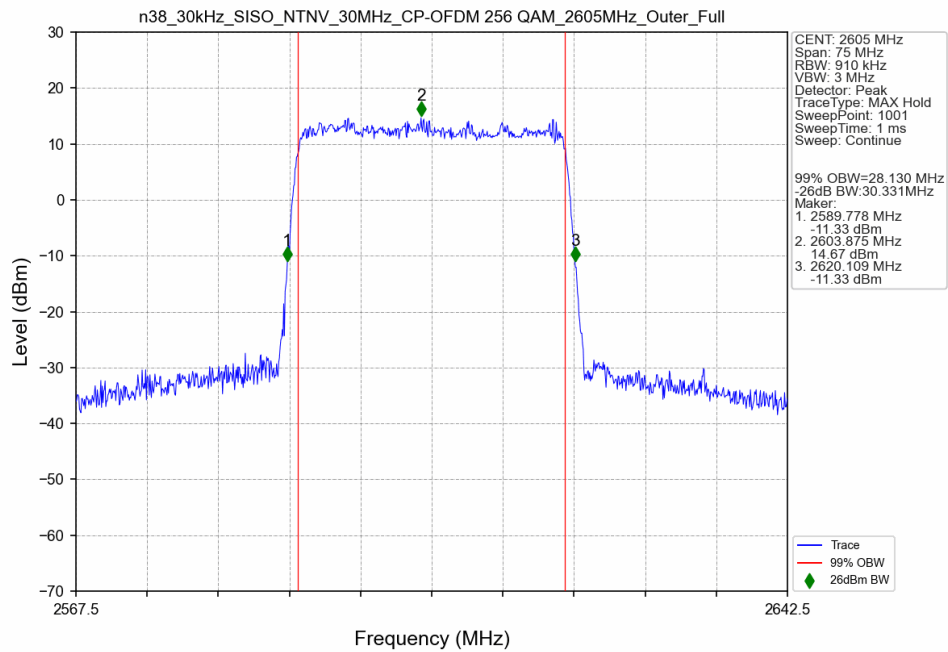


n38_30kHz_SISO_NTNV_30MHz_CP-OFDM_256_QAM_2585MHz_Outer_Full_Ant2

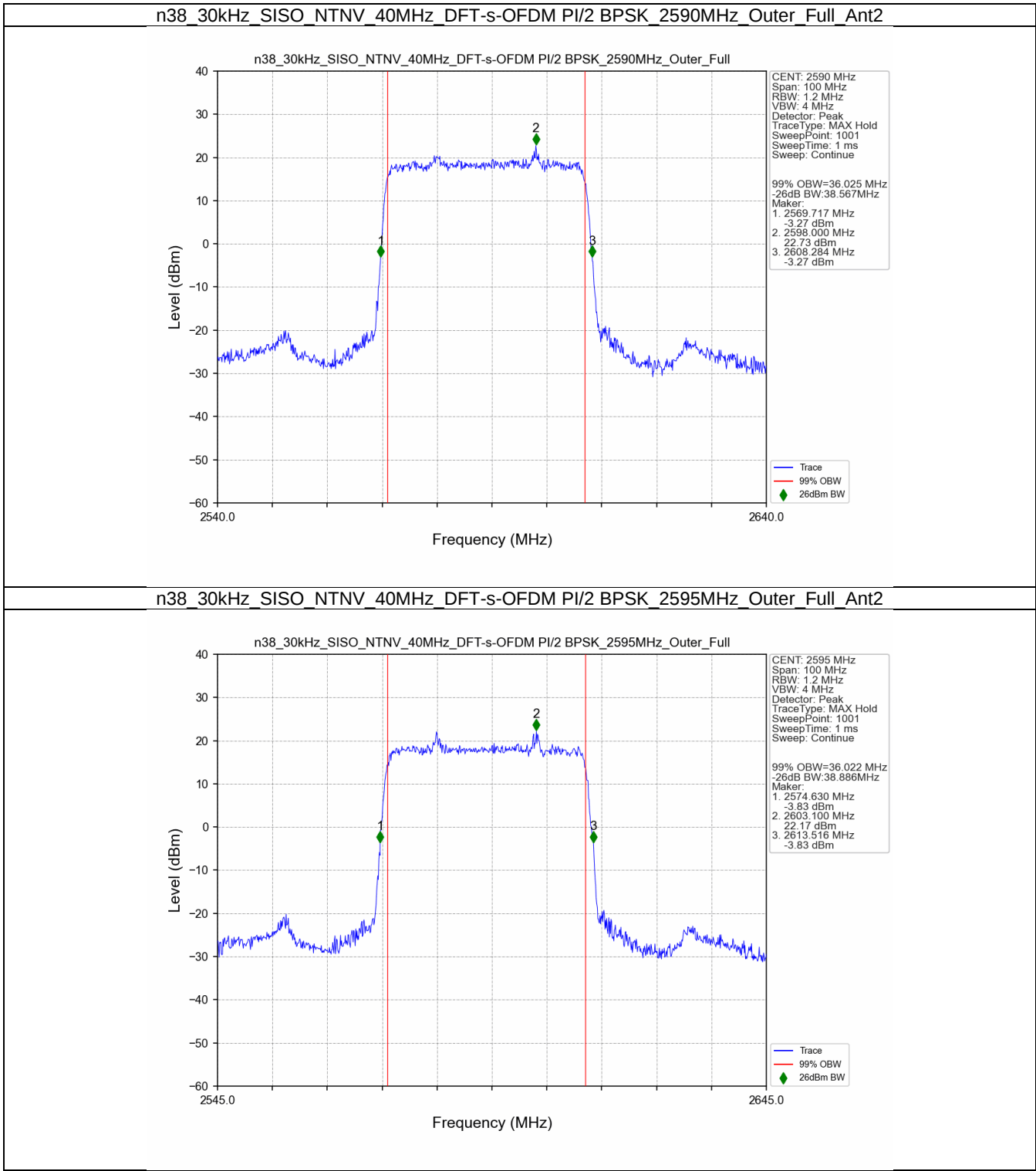


n38_30kHz_SISO_NTNV_30MHz_CP-OFDM_256_QAM_2595MHz_Outer_Full_Ant2

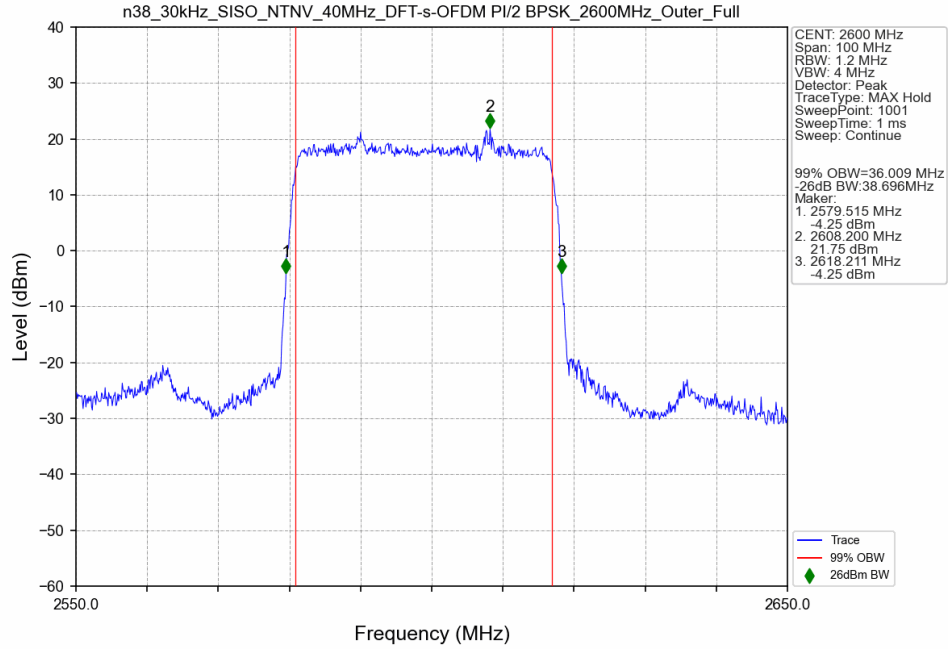




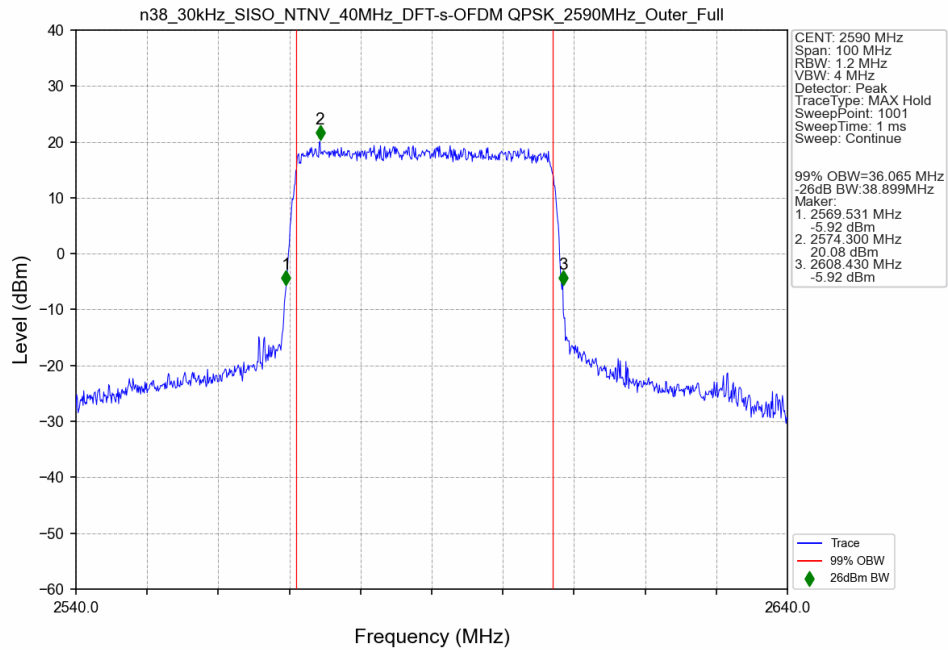
3.2.3 30k_SISO_40MHz_NTNV



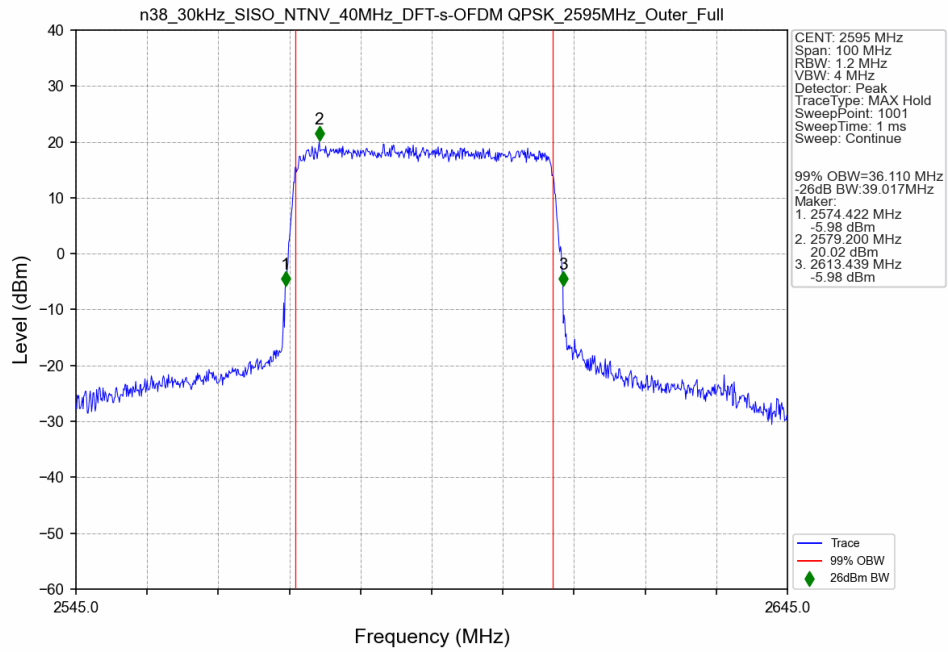
n38 30kHz SISO NTN 40MHz DFT-s-OFDM PI/2 BPSK 2600MHz Outer Full Ant2



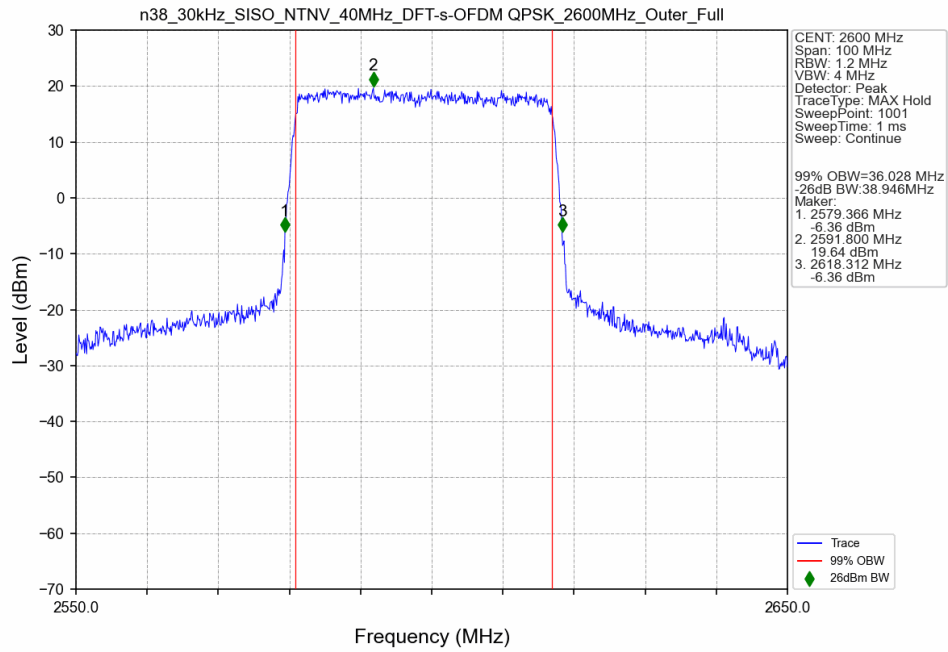
n38 30kHz SISO NTN 40MHz DFT-s-OFDM QPSK 2590MHz Outer Full Ant2



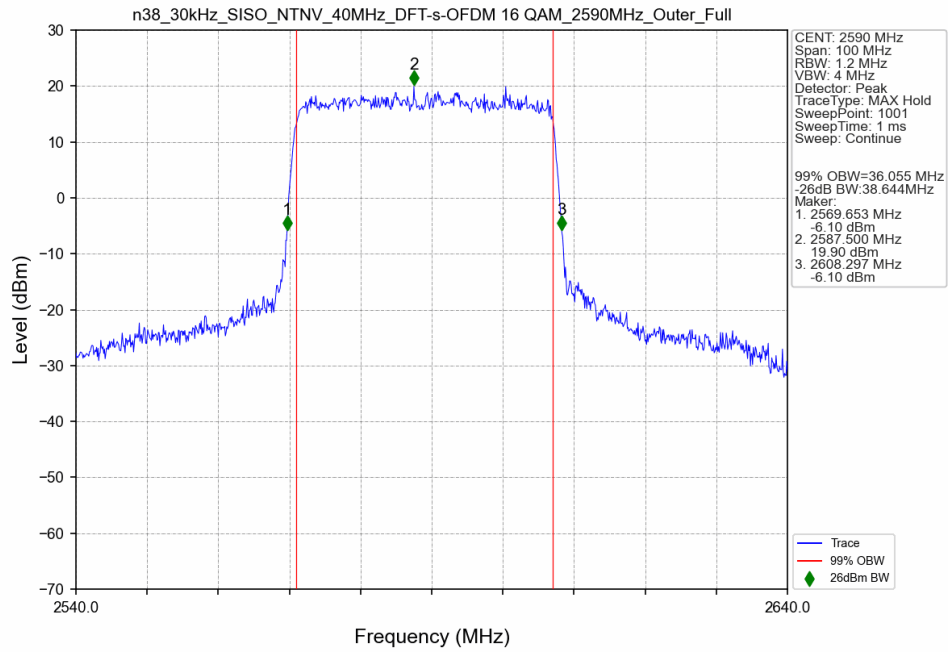
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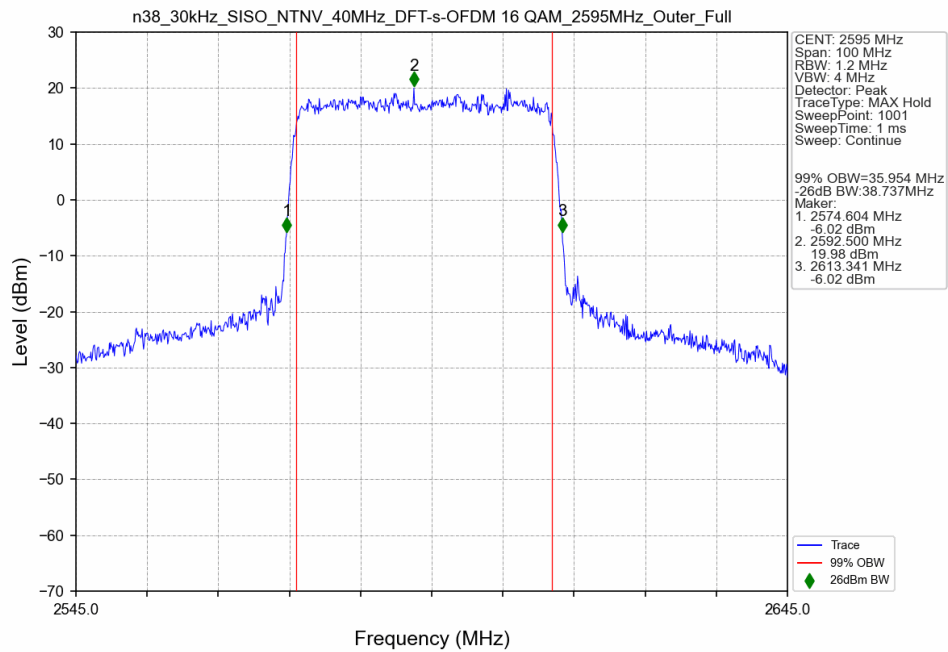
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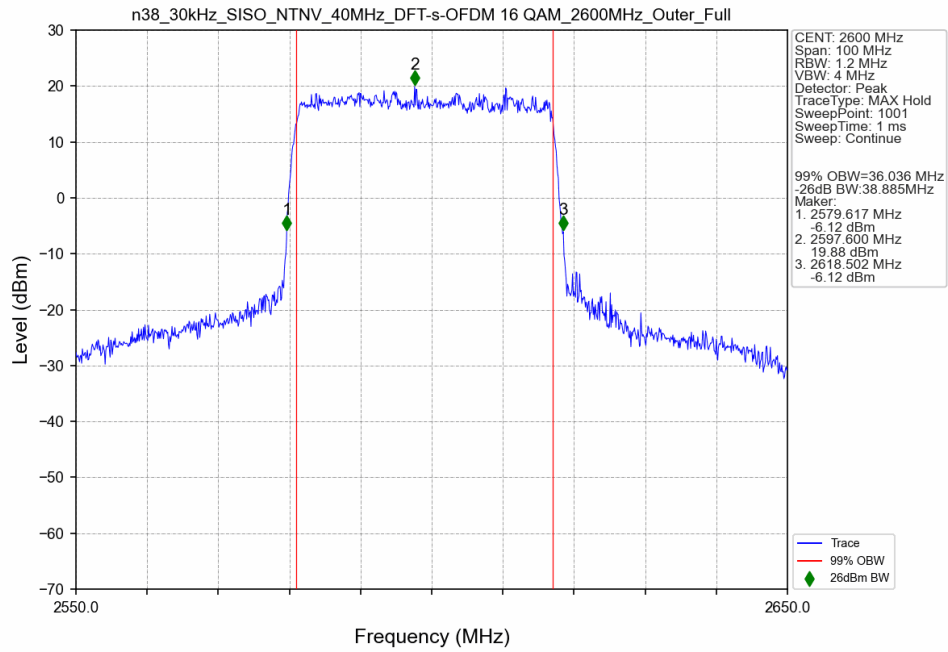
n38_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_16_QAM_2590MHz_Outer_Full_Ant2



n38_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_16_QAM_2595MHz_Outer_Full_Ant2



n38_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_16_QAM_2600MHz_Outer_Full_Ant2



n38_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_64_QAM_2590MHz_Outer_Full_Ant2

