

			-20	NV	18.70	0.0049	>=-2.5 & <=2.5	Pass
			-10	NV	-6.40	-0.0017	>=-2.5 & <=2.5	Pass
			0	NV	-13.30	-0.0035	>=-2.5 & <=2.5	Pass
			10	NV	6.80	0.0018	>=-2.5 & <=2.5	Pass
			20	NV	-8.40	-0.0022	>=-2.5 & <=2.5	Pass
			30	NV	4.90	0.0013	>=-2.5 & <=2.5	Pass
			40	NV	9.60	0.0025	>=-2.5 & <=2.5	Pass
			50	NV	-5.00	-0.0013	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	3840	Outer_Full	20	LV	-10.80	-0.0028	>=-2.5 & <=2.5	Pass
				HV	-4.70	-0.0012	>=-2.5 & <=2.5	Pass
			-30	NV	-5.30	-0.0014	>=-2.5 & <=2.5	Pass
			-20	NV	-11.70	-0.0030	>=-2.5 & <=2.5	Pass
			-10	NV	-7.10	-0.0018	>=-2.5 & <=2.5	Pass
			0	NV	2.30	0.0006	>=-2.5 & <=2.5	Pass
			10	NV	-5.10	-0.0013	>=-2.5 & <=2.5	Pass
			20	NV	-5.10	-0.0013	>=-2.5 & <=2.5	Pass
			30	NV	5.70	0.0015	>=-2.5 & <=2.5	Pass
			40	NV	-12.20	-0.0032	>=-2.5 & <=2.5	Pass
			50	NV	-10.40	-0.0027	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	3840	Outer_Full	20	LV	-10.30	-0.0027	>=-2.5 & <=2.5	Pass
				HV	5.80	0.0015	>=-2.5 & <=2.5	Pass
			-30	NV	-8.10	-0.0021	>=-2.5 & <=2.5	Pass
			-20	NV	-1.30	-0.0003	>=-2.5 & <=2.5	Pass
			-10	NV	-8.40	-0.0022	>=-2.5 & <=2.5	Pass
			0	NV	-7.10	-0.0018	>=-2.5 & <=2.5	Pass
			10	NV	10.00	0.0026	>=-2.5 & <=2.5	Pass
			20	NV	11.90	0.0031	>=-2.5 & <=2.5	Pass
			30	NV	-7.80	-0.0020	>=-2.5 & <=2.5	Pass
			40	NV	5.20	0.0014	>=-2.5 & <=2.5	Pass
			50	NV	2.40	0.0006	>=-2.5 & <=2.5	Pass

2.1.9 30k_SISO_80MHz

5G NR n77a SCS=30kHz SISO 80MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	3840	Outer_Full	20	LV	17.40	0.0045	>=-2.5 & <=2.5	Pass
				HV	12.20	0.0032	>=-2.5 & <=2.5	Pass
			-30	NV	12.20	0.0032	>=-2.5 & <=2.5	Pass
			-20	NV	9.90	0.0026	>=-2.5 & <=2.5	Pass
			-10	NV	13.90	0.0036	>=-2.5 & <=2.5	Pass
			0	NV	13.20	0.0034	>=-2.5 & <=2.5	Pass
			10	NV	-13.90	-0.0036	>=-2.5 & <=2.5	Pass
			20	NV	-6.30	-0.0016	>=-2.5 & <=2.5	Pass
			30	NV	4.90	0.0013	>=-2.5 & <=2.5	Pass
			40	NV	10.60	0.0028	>=-2.5 & <=2.5	Pass
			50	NV	-8.80	-0.0023	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	3840	Outer_Full	20	LV	12.70	0.0033	>=-2.5 & <=2.5	Pass
				HV	5.50	0.0014	>=-2.5 & <=2.5	Pass
			-30	NV	25.20	0.0066	>=-2.5 & <=2.5	Pass
			-20	NV	25.60	0.0067	>=-2.5 & <=2.5	Pass
			-10	NV	16.40	0.0043	>=-2.5 & <=2.5	Pass
			0	NV	7.70	0.0020	>=-2.5 & <=2.5	Pass
			10	NV	-6.70	-0.0017	>=-2.5 & <=2.5	Pass
			20	NV	7.20	0.0019	>=-2.5 & <=2.5	Pass
			30	NV	-13.60	-0.0035	>=-2.5 & <=2.5	Pass
			40	NV	1.90	0.0005	>=-2.5 & <=2.5	Pass

			50	NV	-11.10	-0.0029	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	3840	Outer_Full	20	LV	-13.50	-0.0035	>=-2.5 & <=2.5	Pass
				HV	-24.20	-0.0063	>=-2.5 & <=2.5	Pass
			-30	NV	-10.40	-0.0027	>=-2.5 & <=2.5	Pass
			-20	NV	-33.30	-0.0087	>=-2.5 & <=2.5	Pass
			-10	NV	-10.40	-0.0027	>=-2.5 & <=2.5	Pass
			0	NV	6.60	0.0017	>=-2.5 & <=2.5	Pass
			10	NV	-24.70	-0.0064	>=-2.5 & <=2.5	Pass
			20	NV	22.20	0.0058	>=-2.5 & <=2.5	Pass
			30	NV	9.80	0.0026	>=-2.5 & <=2.5	Pass
			40	NV	13.20	0.0034	>=-2.5 & <=2.5	Pass
			50	NV	7.70	0.0020	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 64 QAM	3840	Outer_Full	20	LV	19.60	0.0051	>=-2.5 & <=2.5	Pass
				HV	18.50	0.0048	>=-2.5 & <=2.5	Pass
			-30	NV	10.50	0.0027	>=-2.5 & <=2.5	Pass
			-20	NV	16.00	0.0042	>=-2.5 & <=2.5	Pass
			-10	NV	-5.60	-0.0015	>=-2.5 & <=2.5	Pass
			0	NV	43.10	0.0112	>=-2.5 & <=2.5	Pass
			10	NV	-22.40	-0.0058	>=-2.5 & <=2.5	Pass
			20	NV	-10.20	-0.0027	>=-2.5 & <=2.5	Pass
			30	NV	5.70	0.0015	>=-2.5 & <=2.5	Pass
			40	NV	-7.20	-0.0019	>=-2.5 & <=2.5	Pass
			50	NV	-16.50	-0.0043	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 256 QAM	3840	Outer_Full	20	LV	-14.30	-0.0037	>=-2.5 & <=2.5	Pass
				HV	9.60	0.0025	>=-2.5 & <=2.5	Pass
			-30	NV	5.40	0.0014	>=-2.5 & <=2.5	Pass
			-20	NV	-3.50	-0.0009	>=-2.5 & <=2.5	Pass
			-10	NV	14.70	0.0038	>=-2.5 & <=2.5	Pass
			0	NV	-4.50	-0.0012	>=-2.5 & <=2.5	Pass
			10	NV	-12.60	-0.0033	>=-2.5 & <=2.5	Pass
			20	NV	-10.20	-0.0027	>=-2.5 & <=2.5	Pass
			30	NV	-1.10	-0.0003	>=-2.5 & <=2.5	Pass
			40	NV	4.70	0.0012	>=-2.5 & <=2.5	Pass
			50	NV	-8.00	-0.0021	>=-2.5 & <=2.5	Pass
CP-OFDM QPSK	3840	Outer_Full	20	LV	2.80	0.0007	>=-2.5 & <=2.5	Pass
				HV	-6.20	-0.0016	>=-2.5 & <=2.5	Pass
			-30	NV	0.90	0.0002	>=-2.5 & <=2.5	Pass
			-20	NV	4.10	0.0011	>=-2.5 & <=2.5	Pass
			-10	NV	-8.40	-0.0022	>=-2.5 & <=2.5	Pass
			0	NV	-8.20	-0.0021	>=-2.5 & <=2.5	Pass
			10	NV	-5.10	-0.0013	>=-2.5 & <=2.5	Pass
			20	NV	3.00	0.0008	>=-2.5 & <=2.5	Pass
			30	NV	15.60	0.0041	>=-2.5 & <=2.5	Pass
			40	NV	-11.00	-0.0029	>=-2.5 & <=2.5	Pass
			50	NV	-13.40	-0.0035	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	3840	Outer_Full	20	LV	-2.90	-0.0008	>=-2.5 & <=2.5	Pass
				HV	19.00	0.0049	>=-2.5 & <=2.5	Pass
			-30	NV	19.80	0.0052	>=-2.5 & <=2.5	Pass
			-20	NV	13.50	0.0035	>=-2.5 & <=2.5	Pass
			-10	NV	5.20	0.0014	>=-2.5 & <=2.5	Pass
			0	NV	-14.80	-0.0039	>=-2.5 & <=2.5	Pass
			10	NV	-4.60	-0.0012	>=-2.5 & <=2.5	Pass
			20	NV	-9.80	-0.0026	>=-2.5 & <=2.5	Pass
			30	NV	-6.10	-0.0016	>=-2.5 & <=2.5	Pass
			40	NV	1.60	0.0004	>=-2.5 & <=2.5	Pass
			50	NV	-8.30	-0.0022	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	3840	Outer_Full	20	LV	5.20	0.0014	>=-2.5 & <=2.5	Pass
				HV	9.40	0.0024	>=-2.5 & <=2.5	Pass
			-30	NV	-2.50	-0.0007	>=-2.5 & <=2.5	Pass

			-20	NV	-5.70	-0.0015	>=-2.5 & <=2.5	Pass
			-10	NV	-15.20	-0.0040	>=-2.5 & <=2.5	Pass
			0	NV	-11.40	-0.0030	>=-2.5 & <=2.5	Pass
			10	NV	-15.60	-0.0041	>=-2.5 & <=2.5	Pass
			20	NV	-6.90	-0.0018	>=-2.5 & <=2.5	Pass
			30	NV	-4.60	-0.0012	>=-2.5 & <=2.5	Pass
			40	NV	-11.10	-0.0029	>=-2.5 & <=2.5	Pass
			50	NV	5.00	0.0013	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	3840	Outer_Full	20	LV	-7.10	-0.0018	>=-2.5 & <=2.5	Pass
				HV	-6.20	-0.0016	>=-2.5 & <=2.5	Pass
			-30	NV	-5.90	-0.0015	>=-2.5 & <=2.5	Pass
			-20	NV	-10.80	-0.0028	>=-2.5 & <=2.5	Pass
			-10	NV	-6.60	-0.0017	>=-2.5 & <=2.5	Pass
			0	NV	-15.70	-0.0041	>=-2.5 & <=2.5	Pass
			10	NV	-7.20	-0.0019	>=-2.5 & <=2.5	Pass
			20	NV	-6.40	-0.0017	>=-2.5 & <=2.5	Pass
			30	NV	2.20	0.0006	>=-2.5 & <=2.5	Pass
			40	NV	-15.20	-0.0040	>=-2.5 & <=2.5	Pass
			50	NV	-9.30	-0.0024	>=-2.5 & <=2.5	Pass

2.1.10 30k_SISO_90MHz

5G NR n77a SCS=30kHz SISO 90MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	3840	Outer_Full	20	LV	15.70	0.0041	>=-2.5 & <=2.5	Pass
				HV	7.80	0.0020	>=-2.5 & <=2.5	Pass
			-30	NV	-4.20	-0.0011	>=-2.5 & <=2.5	Pass
			-20	NV	28.00	0.0073	>=-2.5 & <=2.5	Pass
			-10	NV	10.30	0.0027	>=-2.5 & <=2.5	Pass
			0	NV	14.30	0.0037	>=-2.5 & <=2.5	Pass
			10	NV	11.30	0.0029	>=-2.5 & <=2.5	Pass
			20	NV	13.30	0.0035	>=-2.5 & <=2.5	Pass
			30	NV	8.60	0.0022	>=-2.5 & <=2.5	Pass
			40	NV	11.20	0.0029	>=-2.5 & <=2.5	Pass
			50	NV	5.00	0.0013	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	3840	Outer_Full	20	LV	14.30	0.0037	>=-2.5 & <=2.5	Pass
				HV	7.70	0.0020	>=-2.5 & <=2.5	Pass
			-30	NV	15.00	0.0039	>=-2.5 & <=2.5	Pass
			-20	NV	21.20	0.0055	>=-2.5 & <=2.5	Pass
			-10	NV	21.30	0.0055	>=-2.5 & <=2.5	Pass
			0	NV	14.90	0.0039	>=-2.5 & <=2.5	Pass
			10	NV	14.00	0.0036	>=-2.5 & <=2.5	Pass
			20	NV	13.60	0.0035	>=-2.5 & <=2.5	Pass
			30	NV	7.20	0.0019	>=-2.5 & <=2.5	Pass
			40	NV	27.60	0.0072	>=-2.5 & <=2.5	Pass
			50	NV	7.00	0.0018	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	3840	Outer_Full	20	LV	-6.50	-0.0017	>=-2.5 & <=2.5	Pass
				HV	41.40	0.0108	>=-2.5 & <=2.5	Pass
			-30	NV	-9.80	-0.0026	>=-2.5 & <=2.5	Pass
			-20	NV	12.60	0.0033	>=-2.5 & <=2.5	Pass
			-10	NV	19.70	0.0051	>=-2.5 & <=2.5	Pass
			0	NV	-10.10	-0.0026	>=-2.5 & <=2.5	Pass
			10	NV	26.50	0.0069	>=-2.5 & <=2.5	Pass
			20	NV	15.60	0.0041	>=-2.5 & <=2.5	Pass
			30	NV	19.40	0.0051	>=-2.5 & <=2.5	Pass
			40	NV	4.10	0.0011	>=-2.5 & <=2.5	Pass

			50	NV	9.60	0.0025	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 64 QAM	3840	Outer_Full	20	LV	11.20	0.0029	>=-2.5 & <=2.5	Pass
				HV	8.30	0.0022	>=-2.5 & <=2.5	Pass
			-30	NV	12.50	0.0033	>=-2.5 & <=2.5	Pass
			-20	NV	17.80	0.0046	>=-2.5 & <=2.5	Pass
			-10	NV	16.70	0.0043	>=-2.5 & <=2.5	Pass
			0	NV	27.00	0.0070	>=-2.5 & <=2.5	Pass
			10	NV	18.40	0.0048	>=-2.5 & <=2.5	Pass
			20	NV	10.50	0.0027	>=-2.5 & <=2.5	Pass
			30	NV	-9.20	-0.0024	>=-2.5 & <=2.5	Pass
			40	NV	24.80	0.0065	>=-2.5 & <=2.5	Pass
			50	NV	16.20	0.0042	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 256 QAM	3840	Outer_Full	20	LV	-4.20	-0.0011	>=-2.5 & <=2.5	Pass
				HV	-5.90	-0.0015	>=-2.5 & <=2.5	Pass
			-30	NV	14.00	0.0036	>=-2.5 & <=2.5	Pass
			-20	NV	-5.50	-0.0014	>=-2.5 & <=2.5	Pass
			-10	NV	1.20	0.0003	>=-2.5 & <=2.5	Pass
			0	NV	-6.40	-0.0017	>=-2.5 & <=2.5	Pass
			10	NV	4.40	0.0011	>=-2.5 & <=2.5	Pass
			20	NV	12.70	0.0033	>=-2.5 & <=2.5	Pass
			30	NV	12.00	0.0031	>=-2.5 & <=2.5	Pass
			40	NV	8.50	0.0022	>=-2.5 & <=2.5	Pass
			50	NV	3.40	0.0009	>=-2.5 & <=2.5	Pass
CP-OFDM QPSK	3840	Outer_Full	20	LV	6.40	0.0017	>=-2.5 & <=2.5	Pass
				HV	5.80	0.0015	>=-2.5 & <=2.5	Pass
			-30	NV	13.50	0.0035	>=-2.5 & <=2.5	Pass
			-20	NV	-8.60	-0.0022	>=-2.5 & <=2.5	Pass
			-10	NV	-7.20	-0.0019	>=-2.5 & <=2.5	Pass
			0	NV	7.10	0.0018	>=-2.5 & <=2.5	Pass
			10	NV	2.30	0.0006	>=-2.5 & <=2.5	Pass
			20	NV	-13.80	-0.0036	>=-2.5 & <=2.5	Pass
			30	NV	-12.10	-0.0032	>=-2.5 & <=2.5	Pass
			40	NV	16.70	0.0043	>=-2.5 & <=2.5	Pass
			50	NV	25.10	0.0065	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	3840	Outer_Full	20	LV	21.20	0.0055	>=-2.5 & <=2.5	Pass
				HV	-6.40	-0.0017	>=-2.5 & <=2.5	Pass
			-30	NV	13.60	0.0035	>=-2.5 & <=2.5	Pass
			-20	NV	2.70	0.0007	>=-2.5 & <=2.5	Pass
			-10	NV	2.40	0.0006	>=-2.5 & <=2.5	Pass
			0	NV	-4.30	-0.0011	>=-2.5 & <=2.5	Pass
			10	NV	8.80	0.0023	>=-2.5 & <=2.5	Pass
			20	NV	6.50	0.0017	>=-2.5 & <=2.5	Pass
			30	NV	13.40	0.0035	>=-2.5 & <=2.5	Pass
			40	NV	6.60	0.0017	>=-2.5 & <=2.5	Pass
			50	NV	3.00	0.0008	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	3840	Outer_Full	20	LV	-5.50	-0.0014	>=-2.5 & <=2.5	Pass
				HV	10.20	0.0027	>=-2.5 & <=2.5	Pass
			-30	NV	5.90	0.0015	>=-2.5 & <=2.5	Pass
			-20	NV	6.40	0.0017	>=-2.5 & <=2.5	Pass
			-10	NV	-3.60	-0.0009	>=-2.5 & <=2.5	Pass
			0	NV	10.60	0.0028	>=-2.5 & <=2.5	Pass
			10	NV	-9.60	-0.0025	>=-2.5 & <=2.5	Pass
			20	NV	-14.80	-0.0039	>=-2.5 & <=2.5	Pass
			30	NV	-8.10	-0.0021	>=-2.5 & <=2.5	Pass
			40	NV	4.90	0.0013	>=-2.5 & <=2.5	Pass
			50	NV	17.10	0.0045	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	3840	Outer_Full	20	LV	17.30	0.0045	>=-2.5 & <=2.5	Pass
				HV	8.50	0.0022	>=-2.5 & <=2.5	Pass
			-30	NV	14.50	0.0038	>=-2.5 & <=2.5	Pass

			-20	NV	-7.20	-0.0019	>=-2.5 & <=2.5	Pass
			-10	NV	-12.90	-0.0034	>=-2.5 & <=2.5	Pass
			0	NV	18.20	0.0047	>=-2.5 & <=2.5	Pass
			10	NV	10.90	0.0028	>=-2.5 & <=2.5	Pass
			20	NV	-6.80	-0.0018	>=-2.5 & <=2.5	Pass
			30	NV	-11.30	-0.0029	>=-2.5 & <=2.5	Pass
			40	NV	-11.80	-0.0031	>=-2.5 & <=2.5	Pass
			50	NV	5.40	0.0014	>=-2.5 & <=2.5	Pass

2.1.11 30k_SISO_100MHz

5G NR n77a SCS=30kHz SISO 100MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	3840	Outer_Full	20	LV	-13.00	-0.0034	>=-2.5 & <=2.5	Pass
				HV	9.10	0.0024	>=-2.5 & <=2.5	Pass
			-30	NV	8.00	0.0021	>=-2.5 & <=2.5	Pass
			-20	NV	16.80	0.0044	>=-2.5 & <=2.5	Pass
			-10	NV	10.30	0.0027	>=-2.5 & <=2.5	Pass
			0	NV	28.20	0.0073	>=-2.5 & <=2.5	Pass
			10	NV	-11.20	-0.0029	>=-2.5 & <=2.5	Pass
			20	NV	10.80	0.0028	>=-2.5 & <=2.5	Pass
			30	NV	19.30	0.0050	>=-2.5 & <=2.5	Pass
			40	NV	17.90	0.0047	>=-2.5 & <=2.5	Pass
			50	NV	4.50	0.0012	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	3840	Outer_Full	20	LV	6.40	0.0017	>=-2.5 & <=2.5	Pass
				HV	9.10	0.0024	>=-2.5 & <=2.5	Pass
			-30	NV	-3.40	-0.0009	>=-2.5 & <=2.5	Pass
			-20	NV	4.30	0.0011	>=-2.5 & <=2.5	Pass
			-10	NV	15.20	0.0040	>=-2.5 & <=2.5	Pass
			0	NV	16.70	0.0043	>=-2.5 & <=2.5	Pass
			10	NV	8.70	0.0023	>=-2.5 & <=2.5	Pass
			20	NV	6.80	0.0018	>=-2.5 & <=2.5	Pass
			30	NV	14.90	0.0039	>=-2.5 & <=2.5	Pass
			40	NV	-5.10	-0.0013	>=-2.5 & <=2.5	Pass
			50	NV	-7.20	-0.0019	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	3840	Outer_Full	20	LV	12.90	0.0034	>=-2.5 & <=2.5	Pass
				HV	4.20	0.0011	>=-2.5 & <=2.5	Pass
			-30	NV	3.70	0.0010	>=-2.5 & <=2.5	Pass
			-20	NV	-12.70	-0.0033	>=-2.5 & <=2.5	Pass
			-10	NV	13.60	0.0035	>=-2.5 & <=2.5	Pass
			0	NV	9.50	0.0025	>=-2.5 & <=2.5	Pass
			10	NV	9.30	0.0024	>=-2.5 & <=2.5	Pass
			20	NV	16.80	0.0044	>=-2.5 & <=2.5	Pass
			30	NV	8.00	0.0021	>=-2.5 & <=2.5	Pass
			40	NV	14.20	0.0037	>=-2.5 & <=2.5	Pass
			50	NV	8.80	0.0023	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 64 QAM	3840	Outer_Full	20	LV	20.30	0.0053	>=-2.5 & <=2.5	Pass
				HV	8.40	0.0022	>=-2.5 & <=2.5	Pass
			-30	NV	-9.40	-0.0024	>=-2.5 & <=2.5	Pass
			-20	NV	-5.10	-0.0013	>=-2.5 & <=2.5	Pass
			-10	NV	-9.00	-0.0023	>=-2.5 & <=2.5	Pass
			0	NV	-4.90	-0.0013	>=-2.5 & <=2.5	Pass
			10	NV	8.30	0.0022	>=-2.5 & <=2.5	Pass
			20	NV	10.50	0.0027	>=-2.5 & <=2.5	Pass
			30	NV	17.60	0.0046	>=-2.5 & <=2.5	Pass
			40	NV	22.40	0.0058	>=-2.5 & <=2.5	Pass

			50	NV	12.20	0.0032	≥ -2.5 & ≤ 2.5	Pass
DFT-s-OFDM 256 QAM	3840	Outer_Full	20	LV	5.40	0.0014	≥ -2.5 & ≤ 2.5	Pass
				HV	5.50	0.0014	≥ -2.5 & ≤ 2.5	Pass
			-30	NV	-3.70	-0.0010	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	4.00	0.0010	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	4.20	0.0011	≥ -2.5 & ≤ 2.5	Pass
			0	NV	4.50	0.0012	≥ -2.5 & ≤ 2.5	Pass
			10	NV	15.60	0.0041	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-1.00	-0.0003	≥ -2.5 & ≤ 2.5	Pass
			30	NV	5.40	0.0014	≥ -2.5 & ≤ 2.5	Pass
			40	NV	-10.60	-0.0028	≥ -2.5 & ≤ 2.5	Pass
			50	NV	2.90	0.0008	≥ -2.5 & ≤ 2.5	Pass
CP-OFDM QPSK	3840	Outer_Full	20	LV	8.10	0.0021	≥ -2.5 & ≤ 2.5	Pass
				HV	-7.10	-0.0018	≥ -2.5 & ≤ 2.5	Pass
			-30	NV	13.50	0.0035	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	8.50	0.0022	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	13.70	0.0036	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-4.50	-0.0012	≥ -2.5 & ≤ 2.5	Pass
			10	NV	5.20	0.0014	≥ -2.5 & ≤ 2.5	Pass
			20	NV	10.60	0.0028	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-10.30	-0.0027	≥ -2.5 & ≤ 2.5	Pass
			40	NV	7.40	0.0019	≥ -2.5 & ≤ 2.5	Pass
			50	NV	7.30	0.0019	≥ -2.5 & ≤ 2.5	Pass
CP-OFDM 16 QAM	3840	Outer_Full	20	LV	6.70	0.0017	≥ -2.5 & ≤ 2.5	Pass
				HV	3.70	0.0010	≥ -2.5 & ≤ 2.5	Pass
			-30	NV	-11.90	-0.0031	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	9.40	0.0024	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	9.20	0.0024	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-5.20	-0.0014	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-5.70	-0.0015	≥ -2.5 & ≤ 2.5	Pass
			20	NV	23.00	0.0060	≥ -2.5 & ≤ 2.5	Pass
			30	NV	3.90	0.0010	≥ -2.5 & ≤ 2.5	Pass
			40	NV	-4.10	-0.0011	≥ -2.5 & ≤ 2.5	Pass
			50	NV	-4.30	-0.0011	≥ -2.5 & ≤ 2.5	Pass
CP-OFDM 64 QAM	3840	Outer_Full	20	LV	-8.80	-0.0023	≥ -2.5 & ≤ 2.5	Pass
				HV	4.30	0.0011	≥ -2.5 & ≤ 2.5	Pass
			-30	NV	-3.80	-0.0010	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	11.70	0.0030	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	-17.10	-0.0045	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-13.80	-0.0036	≥ -2.5 & ≤ 2.5	Pass
			10	NV	5.10	0.0013	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-6.10	-0.0016	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-6.50	-0.0017	≥ -2.5 & ≤ 2.5	Pass
			40	NV	7.00	0.0018	≥ -2.5 & ≤ 2.5	Pass
			50	NV	-10.70	-0.0028	≥ -2.5 & ≤ 2.5	Pass
CP-OFDM 256 QAM	3840	Outer_Full	20	LV	5.00	0.0013	≥ -2.5 & ≤ 2.5	Pass
				HV	18.80	0.0049	≥ -2.5 & ≤ 2.5	Pass
			-30	NV	-16.60	-0.0043	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	16.30	0.0042	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	-1.20	-0.0003	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-6.30	-0.0016	≥ -2.5 & ≤ 2.5	Pass
			10	NV	4.10	0.0011	≥ -2.5 & ≤ 2.5	Pass
			20	NV	14.90	0.0039	≥ -2.5 & ≤ 2.5	Pass
			30	NV	4.90	0.0013	≥ -2.5 & ≤ 2.5	Pass
			40	NV	19.20	0.0050	≥ -2.5 & ≤ 2.5	Pass
			50	NV	8.90	0.0023	≥ -2.5 & ≤ 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 30k_SISO_10MHz_NTNV

5G NR n77a SCS=30kHz SISO 10MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3705	Outer_Full	8.60	10.05	/	Pass
	3840	Outer_Full	8.64	10.19	/	Pass
	3975	Outer_Full	8.62	10.12	/	Pass
DFT-s-OFDM QPSK	3705	Outer_Full	8.70	9.50	/	Pass
	3840	Outer_Full	8.71	10.42	/	Pass
	3975	Outer_Full	8.68	9.76	/	Pass
DFT-s-OFDM 16 QAM	3705	Outer_Full	8.73	9.64	/	Pass
	3840	Outer_Full	8.71	9.75	/	Pass
	3975	Outer_Full	8.69	9.62	/	Pass
DFT-s-OFDM 64 QAM	3705	Outer_Full	8.68	10.11	/	Pass
	3840	Outer_Full	8.71	10.14	/	Pass
	3975	Outer_Full	8.71	9.66	/	Pass
DFT-s-OFDM 256 QAM	3705	Outer_Full	8.70	9.94	/	Pass
	3840	Outer_Full	8.64	9.62	/	Pass
	3975	Outer_Full	8.68	9.89	/	Pass
CP-OFDM QPSK	3705	Outer_Full	8.73	9.65	/	Pass
	3840	Outer_Full	8.64	9.39	/	Pass
	3975	Outer_Full	8.71	9.76	/	Pass
CP-OFDM 16 QAM	3705	Outer_Full	8.68	9.61	/	Pass
	3840	Outer_Full	8.69	9.88	/	Pass
	3975	Outer_Full	8.69	9.76	/	Pass
CP-OFDM 64 QAM	3705	Outer_Full	8.67	10.11	/	Pass
	3840	Outer_Full	8.76	9.77	/	Pass
	3975	Outer_Full	8.68	9.67	/	Pass
CP-OFDM 256 QAM	3705	Outer_Full	8.67	9.66	/	Pass
	3840	Outer_Full	8.71	10.04	/	Pass
	3975	Outer_Full	8.72	9.58	/	Pass

3.1.2 30k_SISO_15MHz_NTNV

5G NR n77a SCS=30kHz SISO 15MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3707.52	Outer_Full	13.00	14.69	/	Pass
	3840	Outer_Full	12.99	14.22	/	Pass
	3972.48	Outer_Full	13.11	13.95	/	Pass
DFT-s-OFDM QPSK	3707.52	Outer_Full	13.09	14.32	/	Pass
	3840	Outer_Full	13.02	14.33	/	Pass
	3972.48	Outer_Full	13.05	14.28	/	Pass
DFT-s-OFDM 16 QAM	3707.52	Outer_Full	13.10	14.34	/	Pass
	3840	Outer_Full	13.04	14.56	/	Pass
	3972.48	Outer_Full	13.04	14.50	/	Pass
DFT-s-OFDM 64 QAM	3707.52	Outer_Full	13.08	14.30	/	Pass
	3840	Outer_Full	13.14	13.98	/	Pass
	3972.48	Outer_Full	13.12	14.21	/	Pass
DFT-s-OFDM 256 QAM	3707.52	Outer_Full	12.95	13.81	/	Pass
	3840	Outer_Full	12.98	14.16	/	Pass

	3972.48	Outer_Full	13.04	14.43	/	Pass
CP-OFDM QPSK	3707.52	Outer_Full	13.79	14.95	/	Pass
	3840	Outer_Full	13.77	15.15	/	Pass
	3972.48	Outer_Full	13.73	14.74	/	Pass
CP-OFDM 16 QAM	3707.52	Outer_Full	13.71	15.42	/	Pass
	3840	Outer_Full	13.76	15.11	/	Pass
	3972.48	Outer_Full	13.72	15.42	/	Pass
CP-OFDM 64 QAM	3707.52	Outer_Full	13.70	14.84	/	Pass
	3840	Outer_Full	13.71	14.89	/	Pass
	3972.48	Outer_Full	13.79	15.20	/	Pass
CP-OFDM 256 QAM	3707.52	Outer_Full	13.77	15.08	/	Pass
	3840	Outer_Full	13.68	15.13	/	Pass
	3972.48	Outer_Full	13.69	14.84	/	Pass

3.1.3 30k_SISO_20MHz_NTNV

5G NR n77a 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	3710.01	Outer_Full	18.06	19.51	/	Pass
	3840	Outer_Full	18.04	19.66	/	Pass
	3969.99	Outer_Full	18.00	19.45	/	Pass
DFT-s-OFDM QPSK	3710.01	Outer_Full	18.12	19.76	/	Pass
	3840	Outer_Full	18.06	19.72	/	Pass
	3969.99	Outer_Full	18.17	19.51	/	Pass
DFT-s-OFDM 16 QAM	3710.01	Outer_Full	18.16	19.44	/	Pass
	3840	Outer_Full	18.15	19.49	/	Pass
	3969.99	Outer_Full	18.25	19.30	/	Pass
DFT-s-OFDM 64 QAM	3710.01	Outer_Full	18.17	19.34	/	Pass
	3840	Outer_Full	18.12	19.49	/	Pass
	3969.99	Outer_Full	18.09	19.62	/	Pass
DFT-s-OFDM 256 QAM	3710.01	Outer_Full	18.10	19.31	/	Pass
	3840	Outer_Full	18.05	19.36	/	Pass
	3969.99	Outer_Full	18.02	19.93	/	Pass
CP-OFDM QPSK	3710.01	Outer_Full	18.34	20.00	/	Pass
	3840	Outer_Full	18.20	19.77	/	Pass
	3969.99	Outer_Full	18.39	20.12	/	Pass
CP-OFDM 16 QAM	3710.01	Outer_Full	18.36	19.96	/	Pass
	3840	Outer_Full	18.46	19.91	/	Pass
	3969.99	Outer_Full	18.54	20.11	/	Pass
CP-OFDM 64 QAM	3710.01	Outer_Full	18.36	19.74	/	Pass
	3840	Outer_Full	18.37	20.15	/	Pass
	3969.99	Outer_Full	18.35	19.86	/	Pass
CP-OFDM 256 QAM	3710.01	Outer_Full	18.45	19.63	/	Pass
	3840	Outer_Full	18.48	20.12	/	Pass
	3969.99	Outer_Full	18.40	19.86	/	Pass

3.1.4 30k_SISO_30MHz_NTNV

5G NR n77a SCS=30kHz SISO 30MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3715.02	Outer_Full	27.04	28.97	/	Pass
	3840	Outer_Full	27.09	29.24	/	Pass
	3964.98	Outer_Full	27.07	28.84	/	Pass
DFT-s-OFDM QPSK	3715.02	Outer_Full	27.04	29.00	/	Pass

	3840	Outer_Full	26.96	28.84	/	Pass
	3964.98	Outer_Full	26.98	29.10	/	Pass
	3715.02	Outer_Full	27.23	28.96	/	Pass
DFT-s-OFDM 16 QAM	3840	Outer_Full	27.19	29.13	/	Pass
	3964.98	Outer_Full	27.16	28.91	/	Pass
	3715.02	Outer_Full	27.14	28.99	/	Pass
DFT-s-OFDM 64 QAM	3840	Outer_Full	27.03	28.99	/	Pass
	3964.98	Outer_Full	26.88	29.06	/	Pass
	3715.02	Outer_Full	26.96	29.10	/	Pass
DFT-s-OFDM 256 QAM	3840	Outer_Full	27.11	29.05	/	Pass
	3964.98	Outer_Full	26.96	28.82	/	Pass
	3715.02	Outer_Full	28.07	30.09	/	Pass
CP-OFDM QPSK	3840	Outer_Full	28.06	29.97	/	Pass
	3964.98	Outer_Full	28.11	30.24	/	Pass
	3715.02	Outer_Full	28.11	29.91	/	Pass
CP-OFDM 16 QAM	3840	Outer_Full	28.20	29.99	/	Pass
	3964.98	Outer_Full	28.03	29.98	/	Pass
	3715.02	Outer_Full	28.11	29.88	/	Pass
CP-OFDM 64 QAM	3840	Outer_Full	28.19	30.07	/	Pass
	3964.98	Outer_Full	28.07	30.30	/	Pass
	3715.02	Outer_Full	28.15	30.08	/	Pass
CP-OFDM 256 QAM	3840	Outer_Full	27.94	29.76	/	Pass
	3964.98	Outer_Full	28.02	30.12	/	Pass

3.1.5 30k_SISO_40MHz_NTNV

5G NR n77a SCS=30kHz SISO 40MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3720	Outer_Full	36.18	38.80	/	Pass
	3840	Outer_Full	35.93	38.40	/	Pass
	3960	Outer_Full	36.08	38.41	/	Pass
DFT-s-OFDM QPSK	3720	Outer_Full	36.15	38.46	/	Pass
	3840	Outer_Full	36.14	38.40	/	Pass
	3960	Outer_Full	36.14	38.96	/	Pass
DFT-s-OFDM 16 QAM	3720	Outer_Full	36.14	38.18	/	Pass
	3840	Outer_Full	36.05	38.72	/	Pass
	3960	Outer_Full	36.19	38.56	/	Pass
DFT-s-OFDM 64 QAM	3720	Outer_Full	36.13	38.40	/	Pass
	3840	Outer_Full	35.98	38.33	/	Pass
	3960	Outer_Full	36.01	38.49	/	Pass
DFT-s-OFDM 256 QAM	3720	Outer_Full	35.85	38.36	/	Pass
	3840	Outer_Full	36.00	38.40	/	Pass
	3960	Outer_Full	35.97	38.72	/	Pass
CP-OFDM QPSK	3720	Outer_Full	38.11	40.47	/	Pass
	3840	Outer_Full	38.16	40.74	/	Pass
	3960	Outer_Full	38.19	40.70	/	Pass
CP-OFDM 16 QAM	3720	Outer_Full	38.09	40.67	/	Pass
	3840	Outer_Full	38.06	40.59	/	Pass
	3960	Outer_Full	38.23	40.62	/	Pass
CP-OFDM 64 QAM	3720	Outer_Full	38.23	40.66	/	Pass
	3840	Outer_Full	38.18	40.95	/	Pass
	3960	Outer_Full	38.12	40.55	/	Pass
CP-OFDM 256 QAM	3720	Outer_Full	38.41	40.86	/	Pass
	3840	Outer_Full	38.20	40.44	/	Pass
	3960	Outer_Full	38.23	40.77	/	Pass

3.1.6 30k_SISO_50MHz_NTNV

5G NR n77a SCS=30kHz SISO 50MHz NTV						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3725.01	Outer_Full	46.21	49.15	/	Pass
	3840	Outer_Full	45.99	49.45	/	Pass
	3954.99	Outer_Full	46.05	49.24	/	Pass
DFT-s-OFDM QPSK	3725.01	Outer_Full	46.19	49.13	/	Pass
	3840	Outer_Full	45.99	49.38	/	Pass
	3954.99	Outer_Full	45.88	49.28	/	Pass
DFT-s-OFDM 16 QAM	3725.01	Outer_Full	45.92	49.02	/	Pass
	3840	Outer_Full	46.31	49.26	/	Pass
	3954.99	Outer_Full	46.02	49.16	/	Pass
DFT-s-OFDM 64 QAM	3725.01	Outer_Full	46.05	49.26	/	Pass
	3840	Outer_Full	46.29	49.15	/	Pass
	3954.99	Outer_Full	46.03	49.18	/	Pass
DFT-s-OFDM 256 QAM	3725.01	Outer_Full	45.87	48.97	/	Pass
	3840	Outer_Full	46.36	49.03	/	Pass
	3954.99	Outer_Full	45.93	48.71	/	Pass
CP-OFDM QPSK	3725.01	Outer_Full	47.70	50.95	/	Pass
	3840	Outer_Full	47.66	50.94	/	Pass
	3954.99	Outer_Full	47.76	50.78	/	Pass
CP-OFDM 16 QAM	3725.01	Outer_Full	47.63	50.98	/	Pass
	3840	Outer_Full	47.93	50.85	/	Pass
	3954.99	Outer_Full	47.81	50.95	/	Pass
CP-OFDM 64 QAM	3725.01	Outer_Full	48.04	50.88	/	Pass
	3840	Outer_Full	47.93	51.09	/	Pass
	3954.99	Outer_Full	47.97	51.14	/	Pass
CP-OFDM 256 QAM	3725.01	Outer_Full	47.90	51.00	/	Pass
	3840	Outer_Full	47.72	50.59	/	Pass
	3954.99	Outer_Full	47.75	50.92	/	Pass

3.1.7 30k_SISO_60MHz_NTNV

5G NR n77a SCS=30kHz SISO 60MHz NTV						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3730.02	Outer_Full	58.22	62.30	/	Pass
	3840	Outer_Full	57.98	61.89	/	Pass
	3949.98	Outer_Full	58.36	62.10	/	Pass
DFT-s-OFDM QPSK	3730.02	Outer_Full	58.02	62.12	/	Pass
	3840	Outer_Full	58.28	62.21	/	Pass
	3949.98	Outer_Full	58.34	62.15	/	Pass
DFT-s-OFDM 16 QAM	3730.02	Outer_Full	58.28	61.86	/	Pass
	3840	Outer_Full	58.31	62.10	/	Pass
	3949.98	Outer_Full	57.97	61.88	/	Pass
DFT-s-OFDM 64 QAM	3730.02	Outer_Full	58.51	62.05	/	Pass
	3840	Outer_Full	58.34	62.09	/	Pass
	3949.98	Outer_Full	58.49	61.84	/	Pass
DFT-s-OFDM 256 QAM	3730.02	Outer_Full	58.28	61.93	/	Pass
	3840	Outer_Full	58.44	62.05	/	Pass
	3949.98	Outer_Full	57.88	62.04	/	Pass
CP-OFDM QPSK	3730.02	Outer_Full	58.22	61.79	/	Pass
	3840	Outer_Full	58.46	62.07	/	Pass
	3949.98	Outer_Full	57.96	62.11	/	Pass
CP-OFDM 16 QAM	3730.02	Outer_Full	58.13	62.04	/	Pass

CP-OFDM 64 QAM	3840	Outer_Full	58.37	62.11	/	Pass
	3949.98	Outer_Full	58.20	62.29	/	Pass
	3730.02	Outer_Full	58.72	61.68	/	Pass
	3840	Outer_Full	58.30	61.93	/	Pass
	3949.98	Outer_Full	58.36	62.02	/	Pass
CP-OFDM 256 QAM	3730.02	Outer_Full	58.44	61.70	/	Pass
	3840	Outer_Full	58.24	61.33	/	Pass
	3949.98	Outer_Full	58.08	61.70	/	Pass

3.1.8 30k_SISO_70MHz_NTNV

5G NR n77a SCS=30kHz SISO 70MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3735	Outer_Full	65.07	69.11	/	Pass
	3840	Outer_Full	65.16	69.13	/	Pass
	3945	Outer_Full	64.83	69.39	/	Pass
DFT-s-OFDM QPSK	3735	Outer_Full	64.86	69.33	/	Pass
	3840	Outer_Full	64.95	69.75	/	Pass
	3945	Outer_Full	64.98	69.36	/	Pass
DFT-s-OFDM 16 QAM	3735	Outer_Full	64.83	69.25	/	Pass
	3840	Outer_Full	65.08	69.45	/	Pass
	3945	Outer_Full	64.94	69.24	/	Pass
DFT-s-OFDM 64 QAM	3735	Outer_Full	64.79	69.33	/	Pass
	3840	Outer_Full	64.91	69.49	/	Pass
	3945	Outer_Full	64.94	69.20	/	Pass
DFT-s-OFDM 256 QAM	3735	Outer_Full	64.80	69.47	/	Pass
	3840	Outer_Full	64.65	69.19	/	Pass
	3945	Outer_Full	64.80	69.23	/	Pass
CP-OFDM QPSK	3735	Outer_Full	68.18	72.79	/	Pass
	3840	Outer_Full	68.13	72.75	/	Pass
	3945	Outer_Full	68.21	72.39	/	Pass
CP-OFDM 16 QAM	3735	Outer_Full	68.26	73.16	/	Pass
	3840	Outer_Full	68.18	72.60	/	Pass
	3945	Outer_Full	67.84	72.41	/	Pass
CP-OFDM 64 QAM	3735	Outer_Full	67.98	72.38	/	Pass
	3840	Outer_Full	67.92	72.47	/	Pass
	3945	Outer_Full	67.97	72.74	/	Pass
CP-OFDM 256 QAM	3735	Outer_Full	67.78	72.73	/	Pass
	3840	Outer_Full	68.04	72.42	/	Pass
	3945	Outer_Full	67.85	72.34	/	Pass

3.1.9 30k_SISO_80MHz_NTNV

5G NR n77a SCS=30kHz SISO 80MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3740.01	Outer_Full	77.60	82.52	/	Pass
	3840	Outer_Full	77.65	82.58	/	Pass
	3939.99	Outer_Full	77.71	82.55	/	Pass
DFT-s-OFDM QPSK	3740.01	Outer_Full	77.77	82.48	/	Pass
	3840	Outer_Full	77.25	82.54	/	Pass
	3939.99	Outer_Full	77.50	82.86	/	Pass
DFT-s-OFDM 16 QAM	3740.01	Outer_Full	77.38	82.88	/	Pass
	3840	Outer_Full	77.96	83.02	/	Pass
	3939.99	Outer_Full	77.84	82.67	/	Pass

DFT-s-OFDM 64 QAM	3740.01	Outer_Full	78.00	82.77	/	Pass
	3840	Outer_Full	77.98	82.45	/	Pass
	3939.99	Outer_Full	77.58	82.27	/	Pass
DFT-s-OFDM 256 QAM	3740.01	Outer_Full	77.59	82.57	/	Pass
	3840	Outer_Full	77.59	82.49	/	Pass
	3939.99	Outer_Full	77.98	82.81	/	Pass
CP-OFDM QPSK	3740.01	Outer_Full	77.99	82.60	/	Pass
	3840	Outer_Full	77.93	82.97	/	Pass
	3939.99	Outer_Full	77.82	82.62	/	Pass
CP-OFDM 16 QAM	3740.01	Outer_Full	77.94	82.89	/	Pass
	3840	Outer_Full	78.15	82.99	/	Pass
	3939.99	Outer_Full	77.66	83.26	/	Pass
CP-OFDM 64 QAM	3740.01	Outer_Full	77.81	82.95	/	Pass
	3840	Outer_Full	78.21	83.72	/	Pass
	3939.99	Outer_Full	77.77	83.35	/	Pass
CP-OFDM 256 QAM	3740.01	Outer_Full	77.78	83.08	/	Pass
	3840	Outer_Full	77.66	83.29	/	Pass
	3939.99	Outer_Full	77.71	82.83	/	Pass

3.1.10 30k_SISO_90MHz_NTNV

5G NR n77a SCS=30kHz SISO 90MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3745.02	Outer_Full	87.39	93.16	/	Pass
	3840	Outer_Full	87.34	93.11	/	Pass
	3934.98	Outer_Full	87.47	92.47	/	Pass
DFT-s-OFDM QPSK	3745.02	Outer_Full	87.52	92.97	/	Pass
	3840	Outer_Full	87.74	93.16	/	Pass
	3934.98	Outer_Full	87.47	93.11	/	Pass
DFT-s-OFDM 16 QAM	3745.02	Outer_Full	86.89	92.77	/	Pass
	3840	Outer_Full	87.17	92.72	/	Pass
	3934.98	Outer_Full	87.28	93.07	/	Pass
DFT-s-OFDM 64 QAM	3745.02	Outer_Full	87.36	92.81	/	Pass
	3840	Outer_Full	87.48	92.62	/	Pass
	3934.98	Outer_Full	87.33	92.65	/	Pass
DFT-s-OFDM 256 QAM	3745.02	Outer_Full	87.18	92.92	/	Pass
	3840	Outer_Full	87.42	93.04	/	Pass
	3934.98	Outer_Full	87.15	93.11	/	Pass
CP-OFDM QPSK	3745.02	Outer_Full	88.03	93.35	/	Pass
	3840	Outer_Full	87.89	93.75	/	Pass
	3934.98	Outer_Full	88.12	93.73	/	Pass
CP-OFDM 16 QAM	3745.02	Outer_Full	88.03	93.39	/	Pass
	3840	Outer_Full	87.82	93.44	/	Pass
	3934.98	Outer_Full	87.55	93.66	/	Pass
CP-OFDM 64 QAM	3745.02	Outer_Full	87.94	93.88	/	Pass
	3840	Outer_Full	88.39	93.76	/	Pass
	3934.98	Outer_Full	88.10	93.92	/	Pass
CP-OFDM 256 QAM	3745.02	Outer_Full	88.00	93.56	/	Pass
	3840	Outer_Full	87.95	93.82	/	Pass
	3934.98	Outer_Full	87.88	93.56	/	Pass

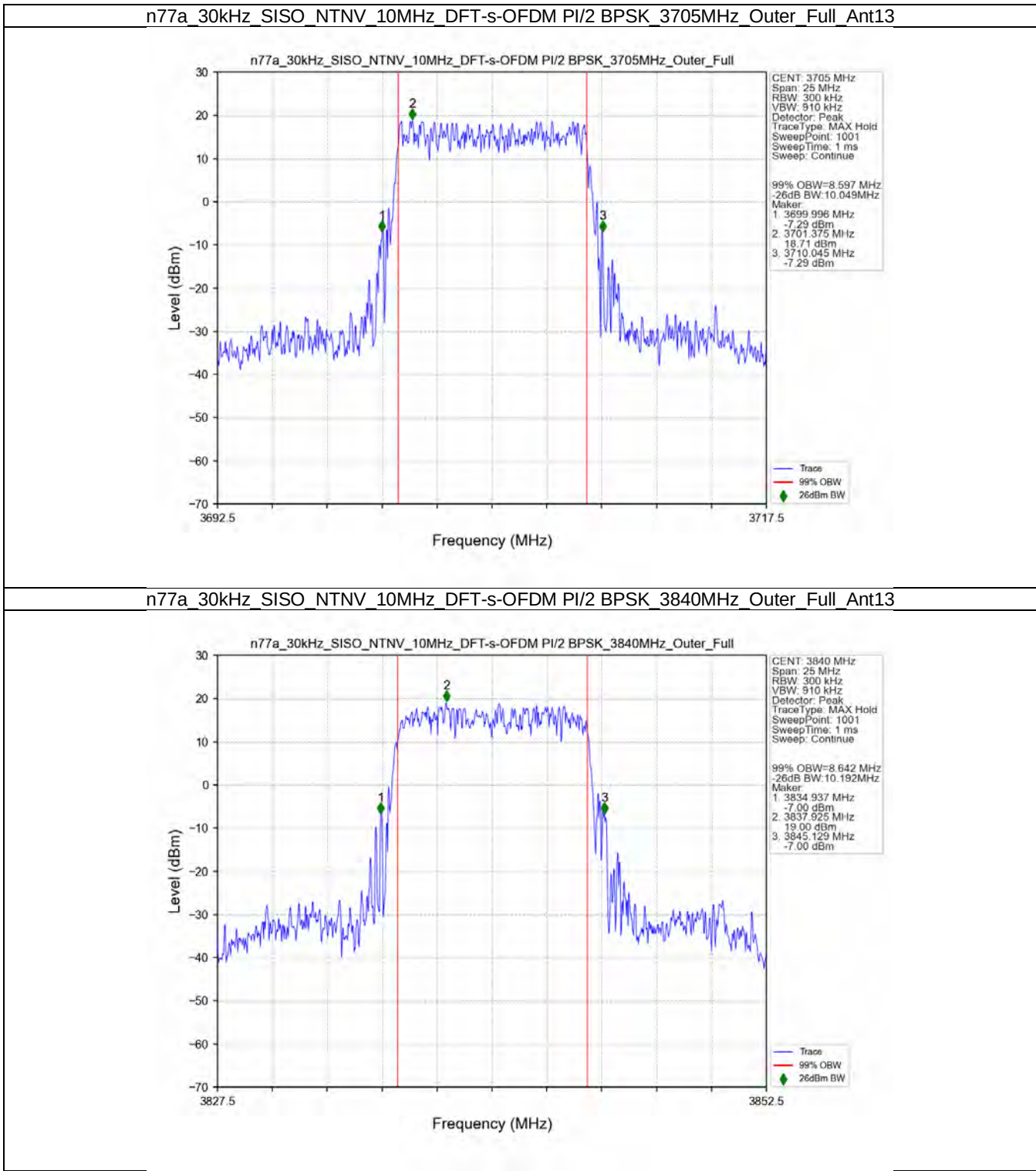
3.1.11 30k_SISO_100MHz_NTNV

5G NR n77a SCS=30kHz SISO 100MHz NTN						
Modulation	Frequency	RB	99% Bandwidth	26dB Bandwidth	Limit	Verdict

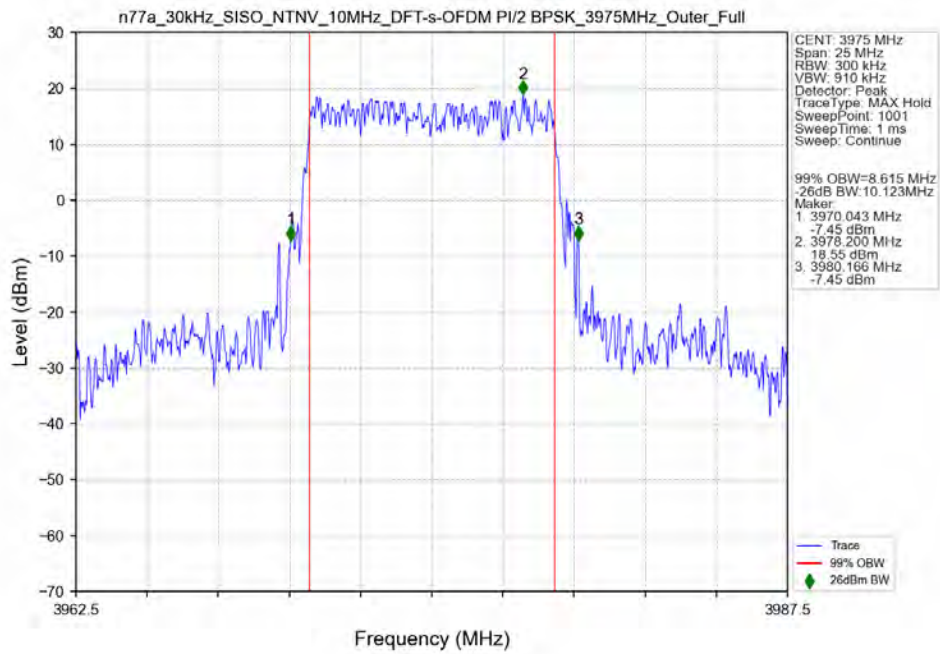
	(MHz)	Allocation	(MHz)	(MHz)	(MHz)	
DFT-s-OFDM PI/2 BPSK	3750	Outer_Full	97.25	103.58	/	Pass
	3840	Outer_Full	97.11	103.41	/	Pass
	3930	Outer_Full	96.94	103.32	/	Pass
DFT-s-OFDM QPSK	3750	Outer_Full	96.94	103.29	/	Pass
	3840	Outer_Full	97.64	103.83	/	Pass
	3930	Outer_Full	97.36	103.22	/	Pass
DFT-s-OFDM 16 QAM	3750	Outer_Full	96.67	103.11	/	Pass
	3840	Outer_Full	96.80	103.40	/	Pass
	3930	Outer_Full	96.86	103.07	/	Pass
DFT-s-OFDM 64 QAM	3750	Outer_Full	97.07	103.54	/	Pass
	3840	Outer_Full	97.10	103.39	/	Pass
	3930	Outer_Full	96.87	103.02	/	Pass
DFT-s-OFDM 256 QAM	3750	Outer_Full	96.98	103.76	/	Pass
	3840	Outer_Full	97.55	103.47	/	Pass
	3930	Outer_Full	96.99	103.07	/	Pass
CP-OFDM QPSK	3750	Outer_Full	98.15	104.56	/	Pass
	3840	Outer_Full	97.90	104.62	/	Pass
	3930	Outer_Full	97.69	104.33	/	Pass
CP-OFDM 16 QAM	3750	Outer_Full	98.00	104.20	/	Pass
	3840	Outer_Full	98.13	104.78	/	Pass
	3930	Outer_Full	98.02	104.33	/	Pass
CP-OFDM 64 QAM	3750	Outer_Full	97.74	104.16	/	Pass
	3840	Outer_Full	97.98	104.51	/	Pass
	3930	Outer_Full	97.19	103.94	/	Pass
CP-OFDM 256 QAM	3750	Outer_Full	98.17	103.88	/	Pass
	3840	Outer_Full	98.40	104.11	/	Pass
	3930	Outer_Full	97.70	104.62	/	Pass

3.2 Test Graph

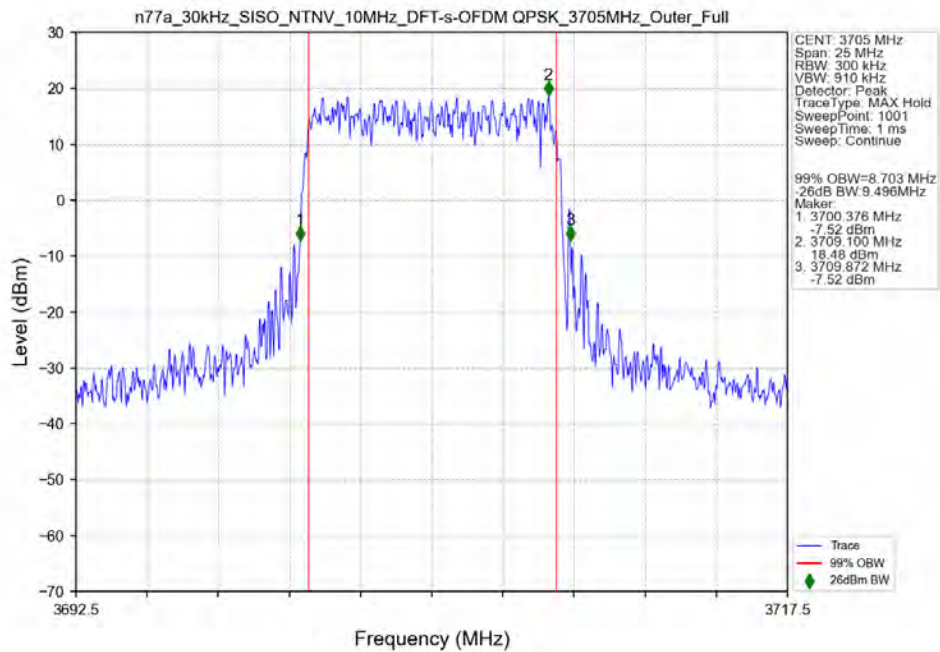
3.2.1 30k_SISO_10MHz_NTNV



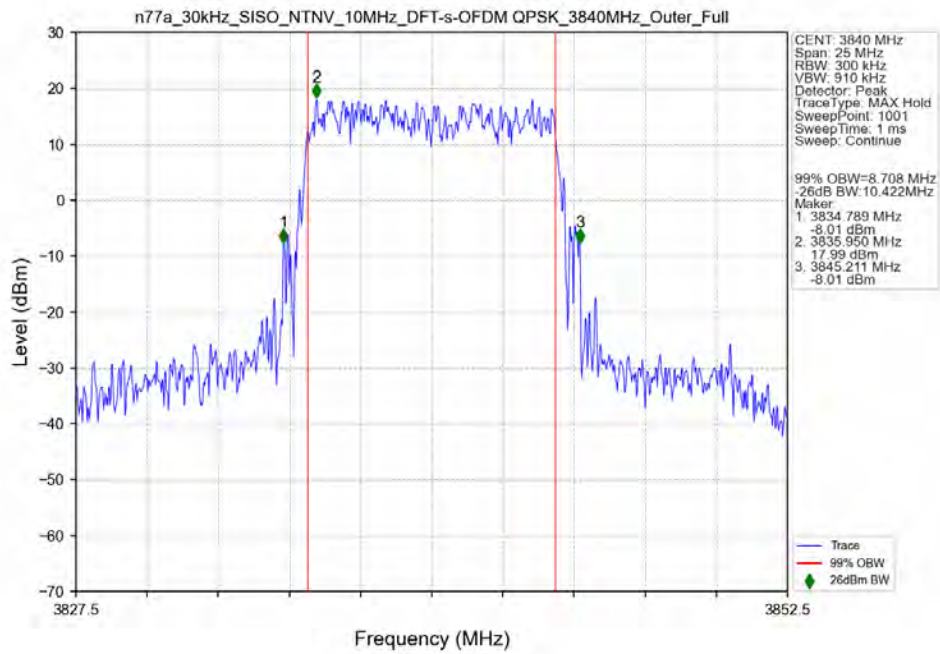
n77a 30kHz SISO NTN 10MHz DFT-s-OFDM PI/2 BPSK 3975MHz Outer Full Ant13



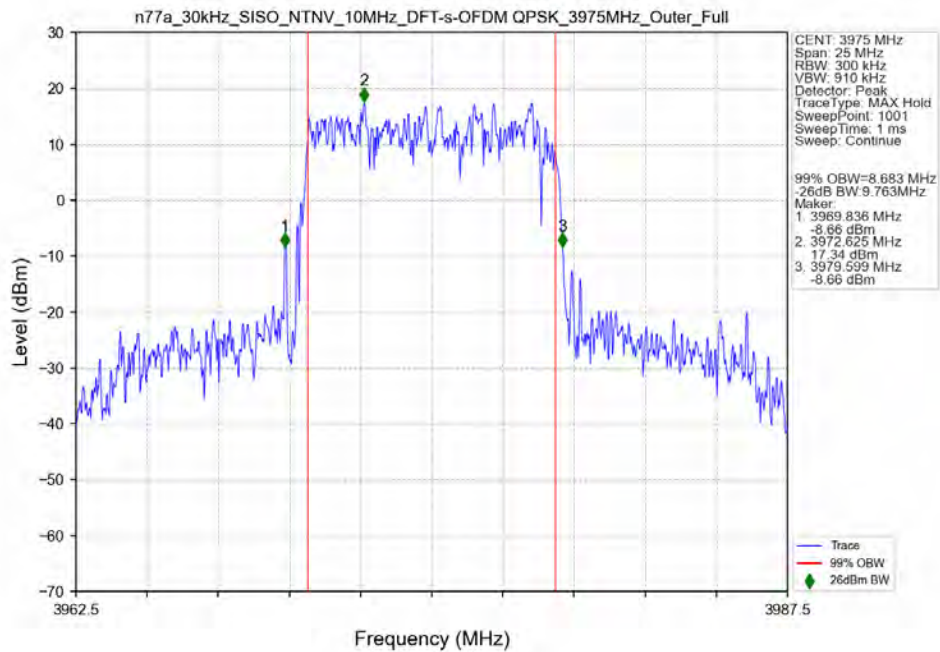
n77a 30kHz SISO NTN 10MHz DFT-s-OFDM QPSK 3705MHz Outer Full Ant13



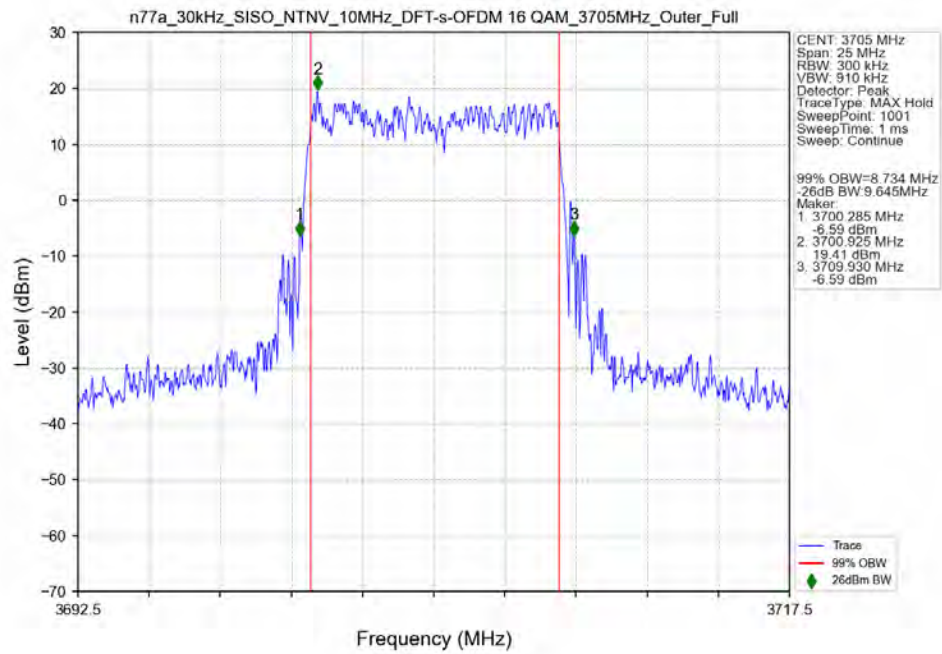
n77a_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_QPSK_3840MHz_Outer_Full_Ant13



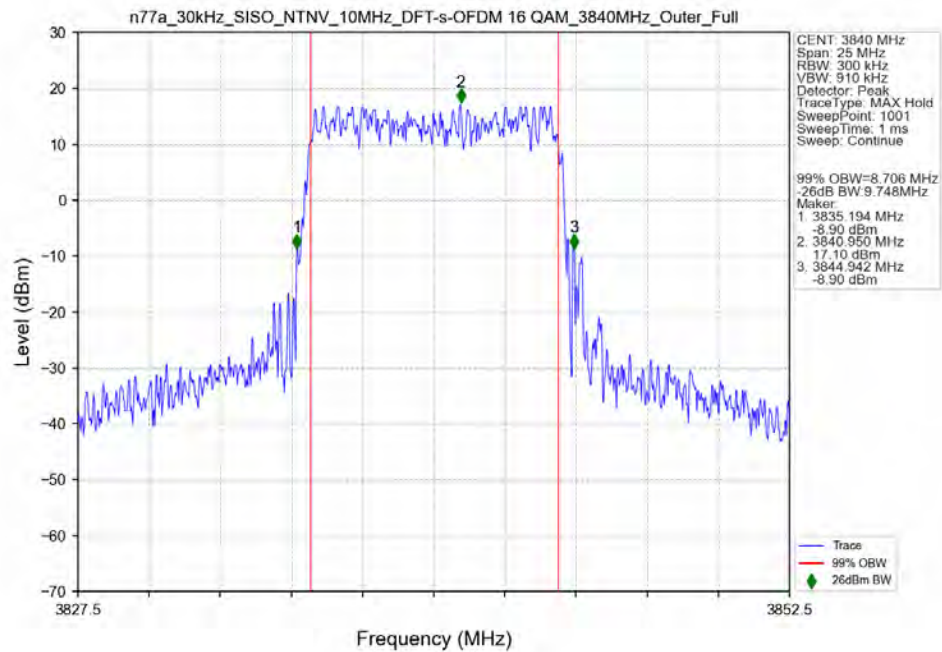
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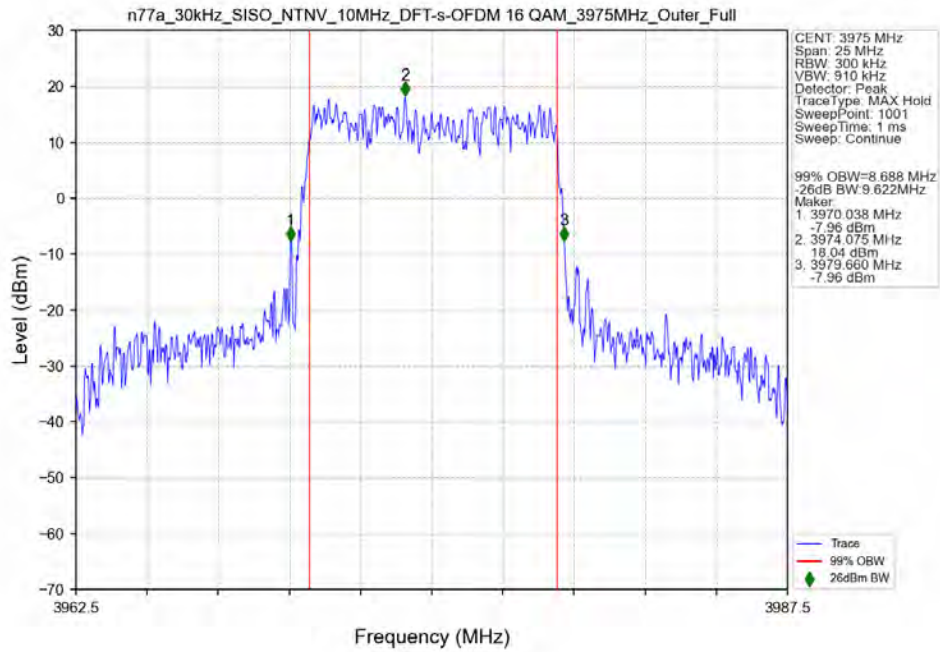
n77a_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_16_QAM_3705MHz_Outer_Full_Ant13



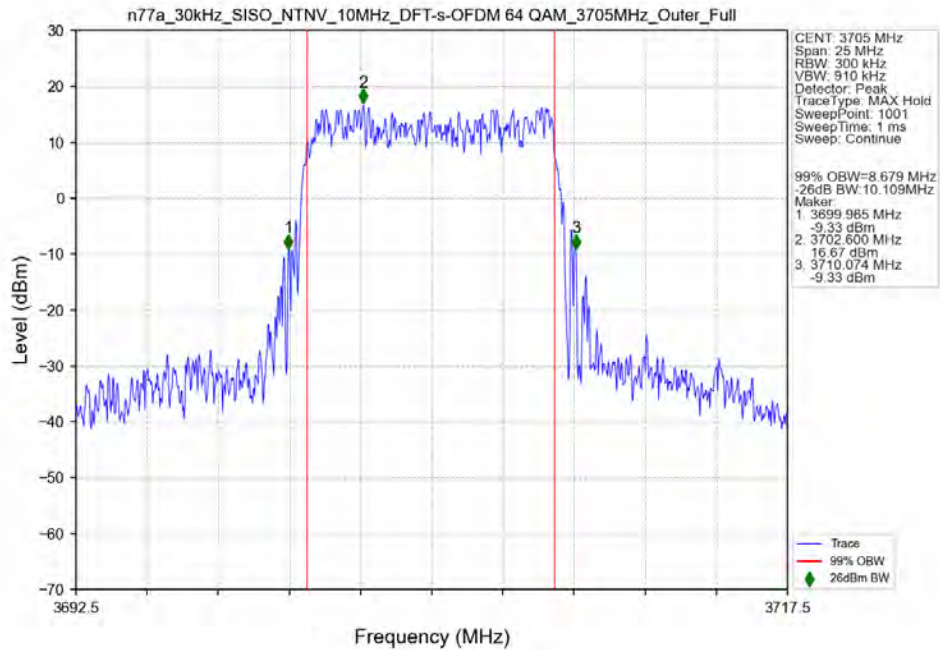
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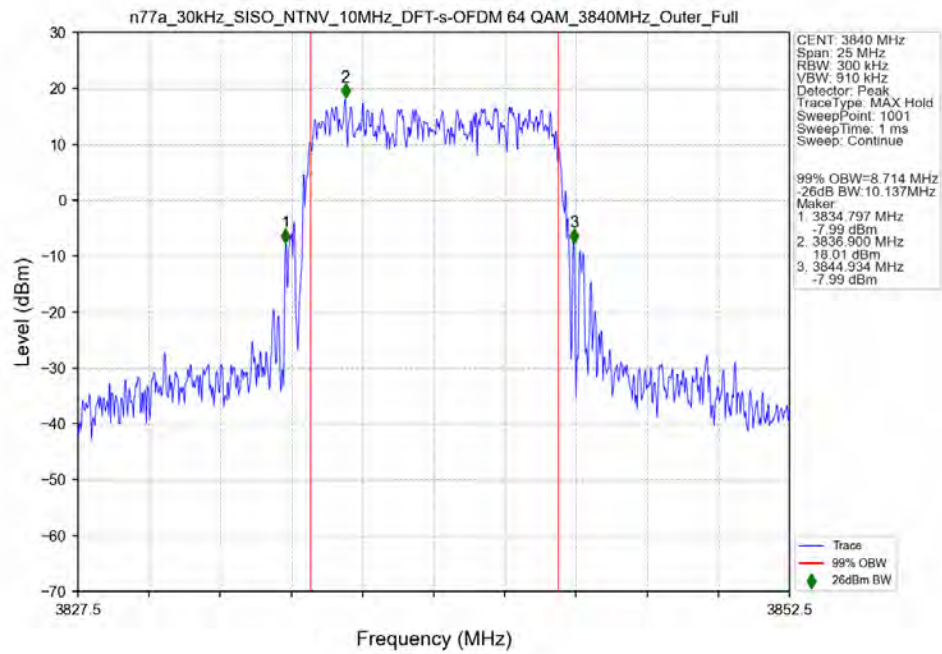
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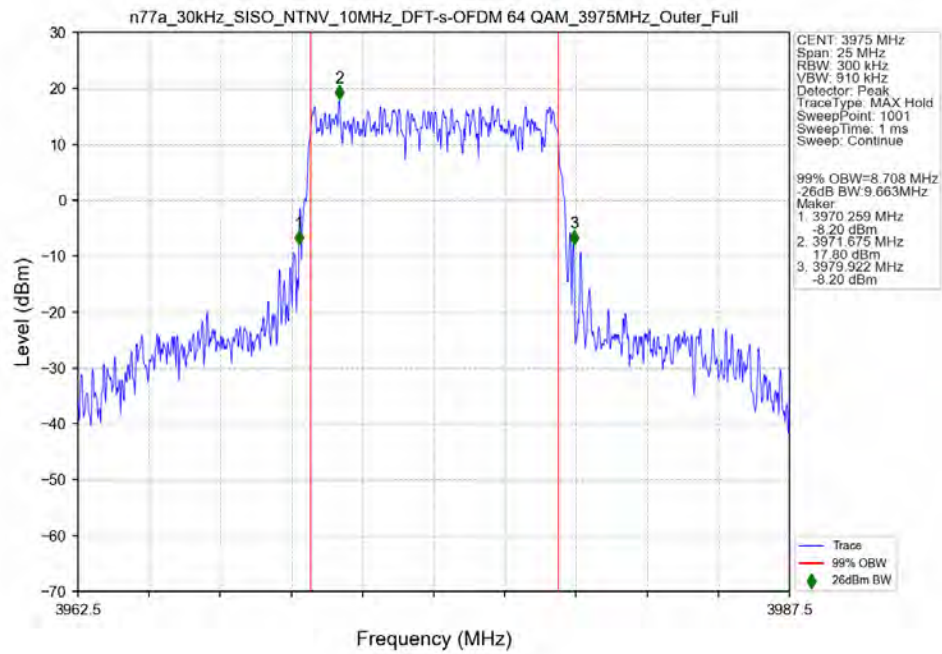
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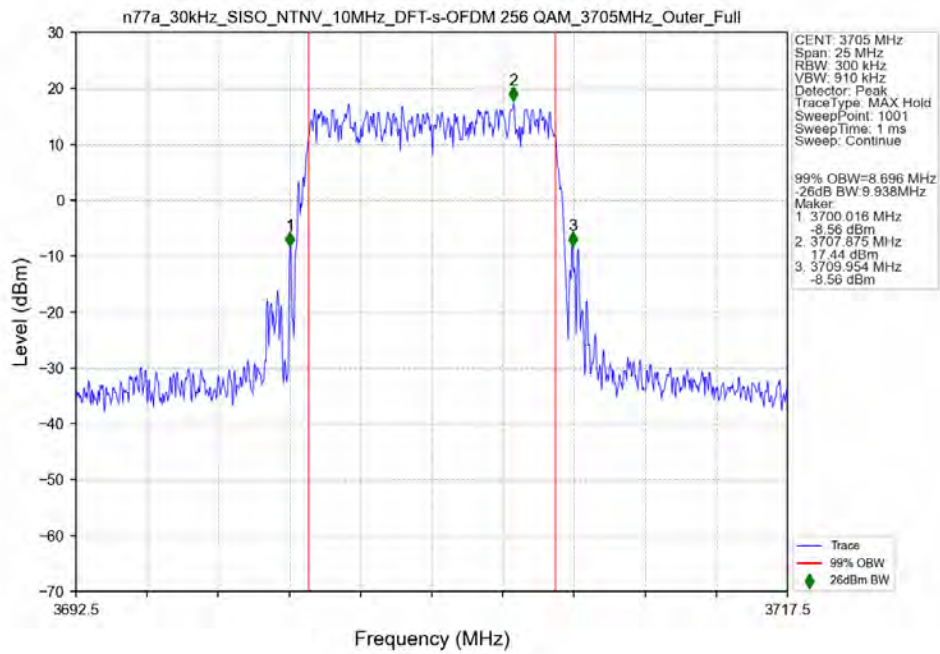
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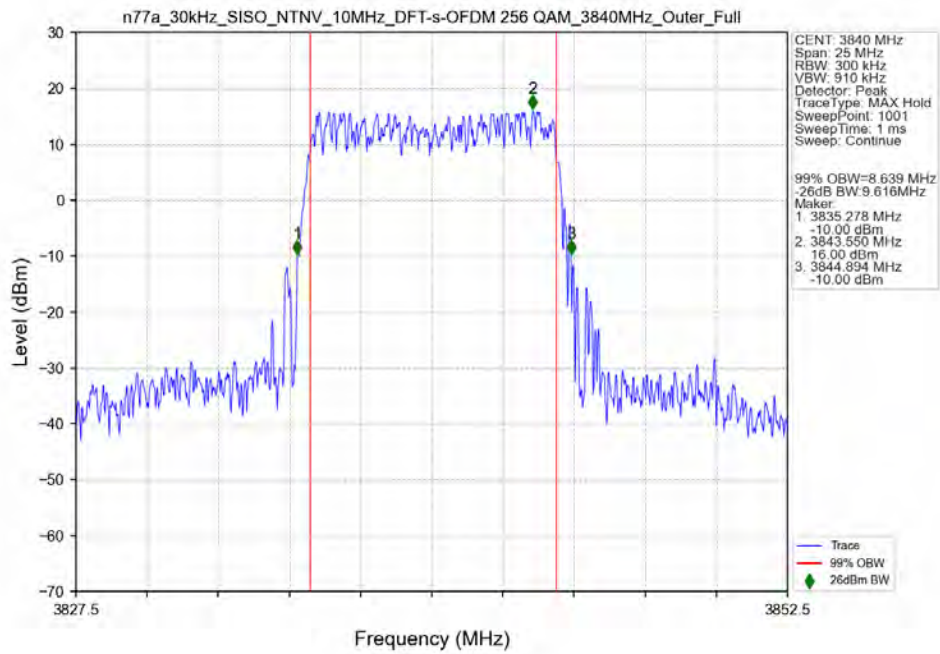
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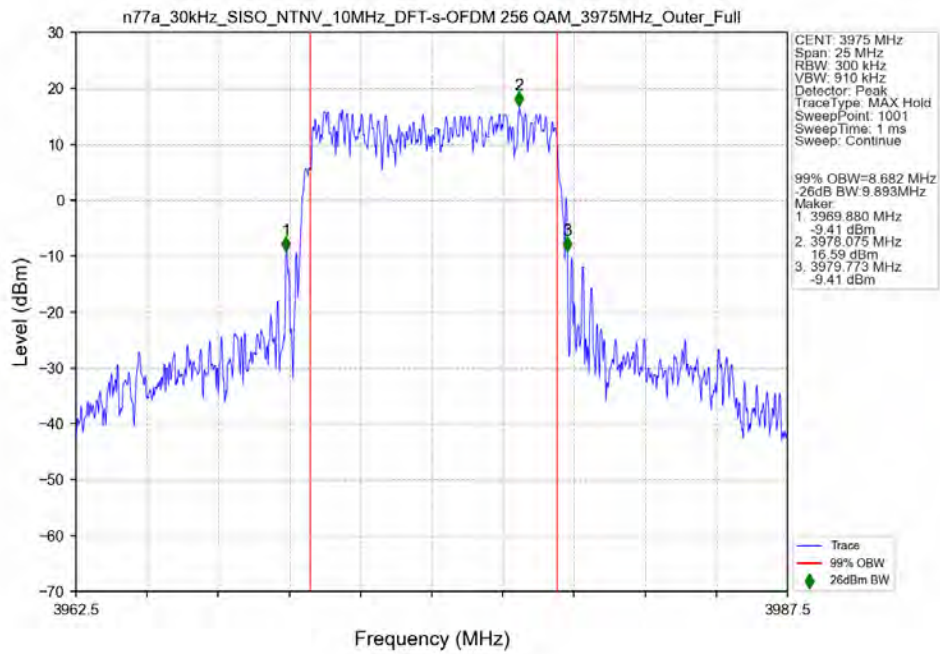
n77a_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_256_QAM_3705MHz_Outer_Full_Ant13



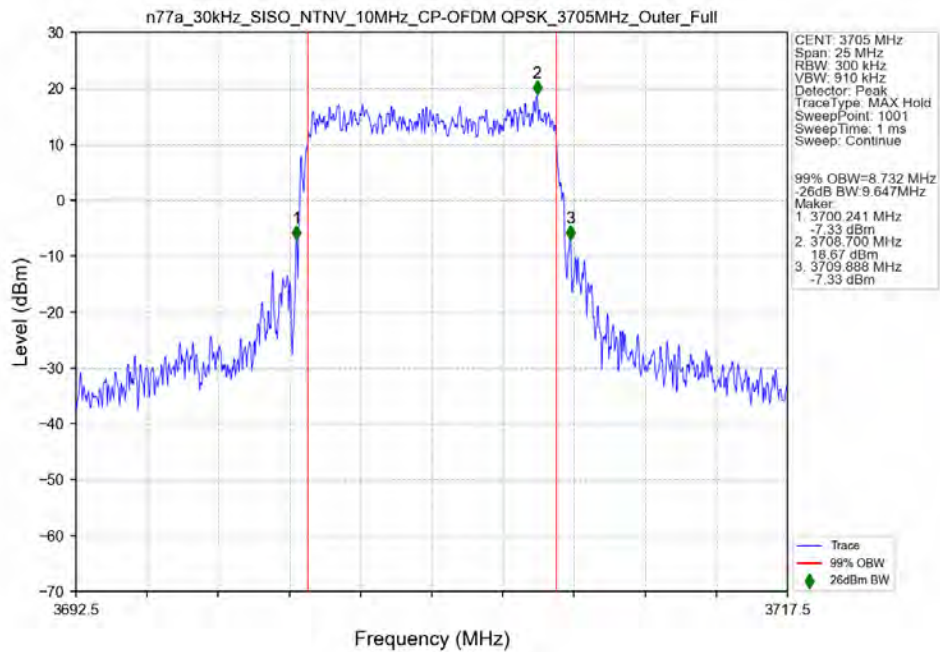
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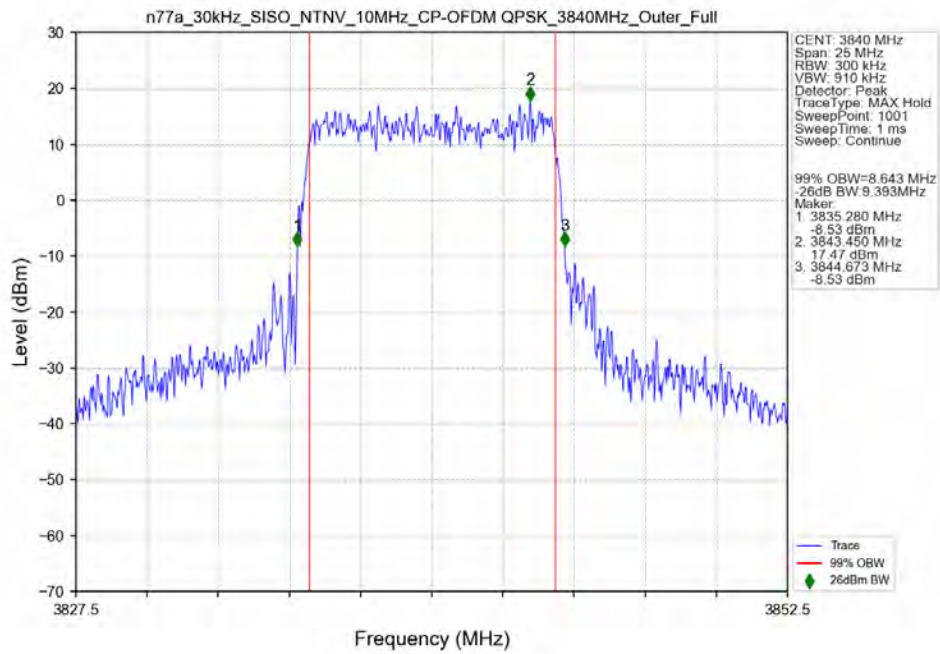
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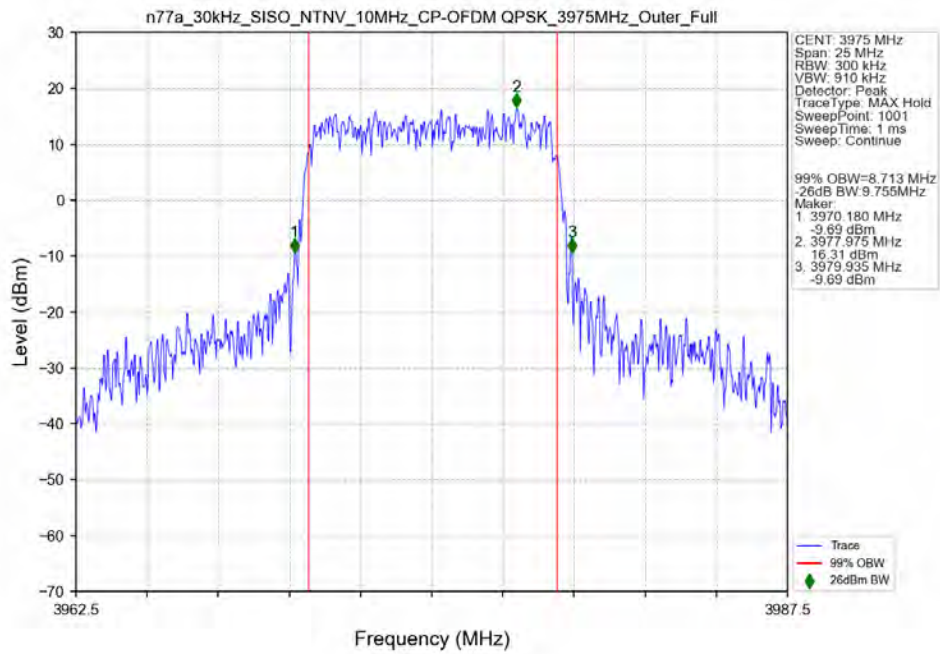
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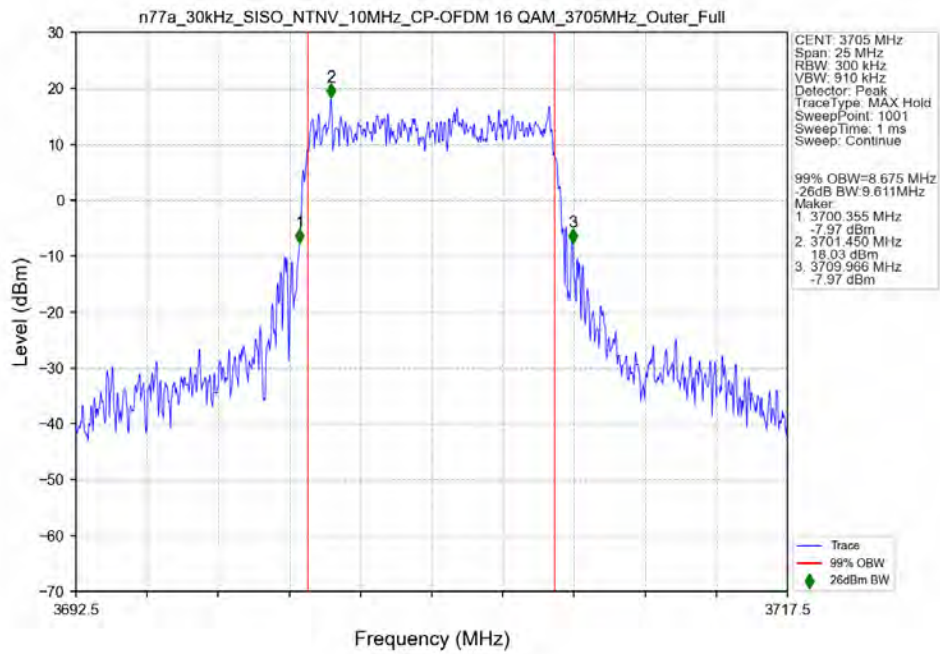
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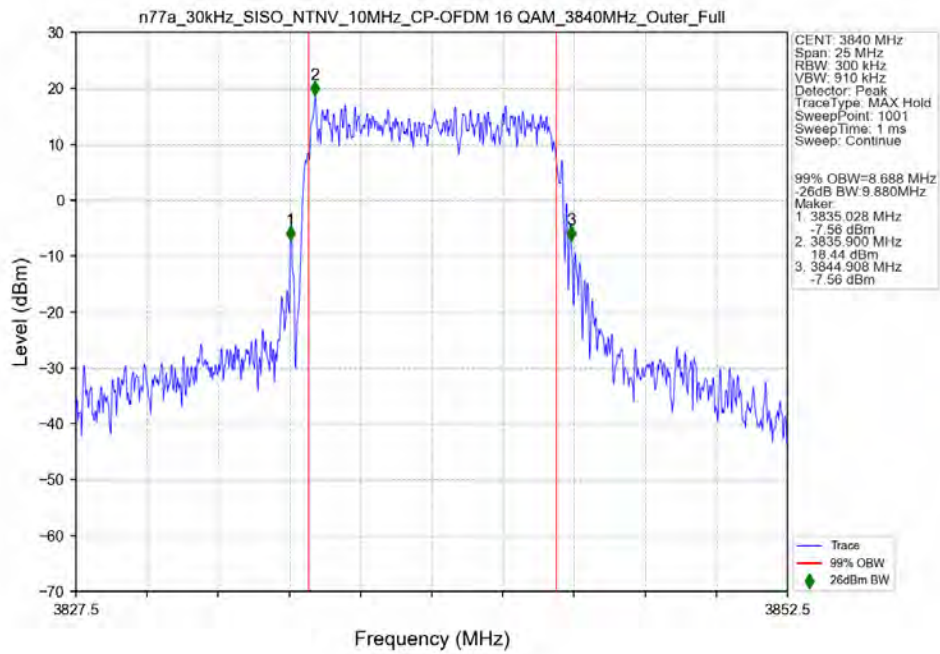
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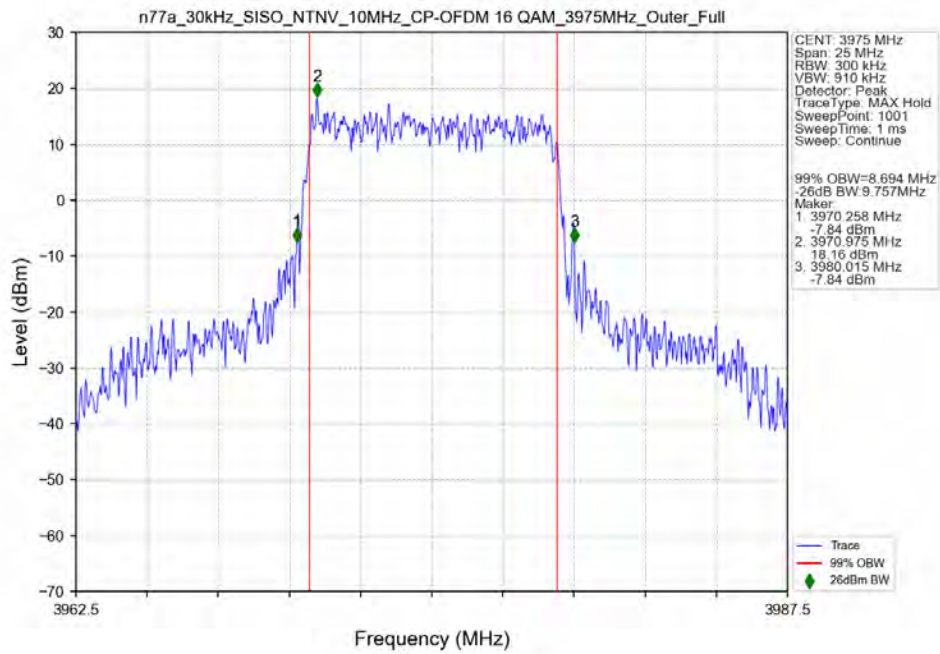
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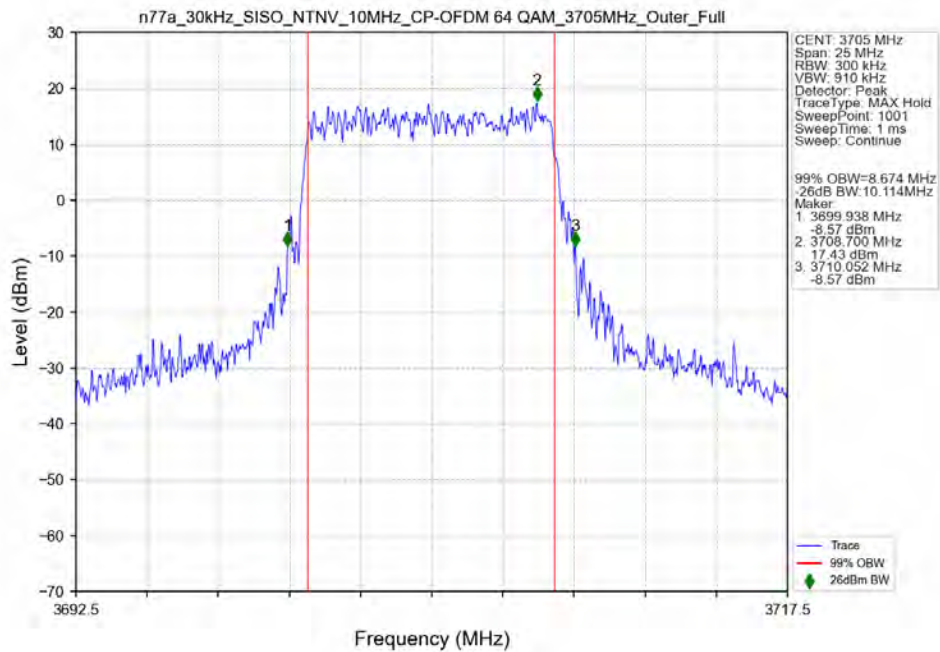
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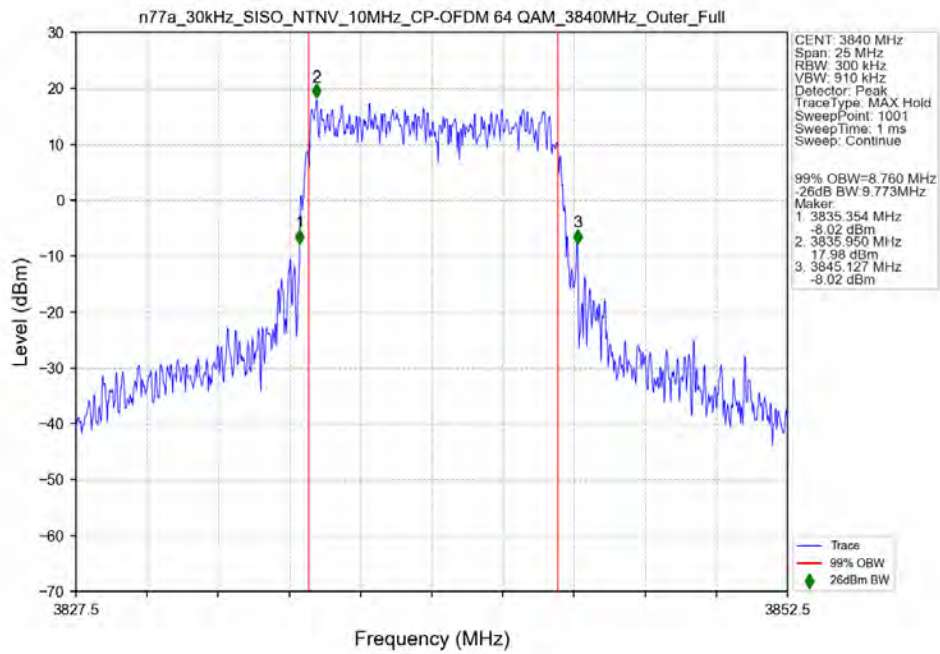
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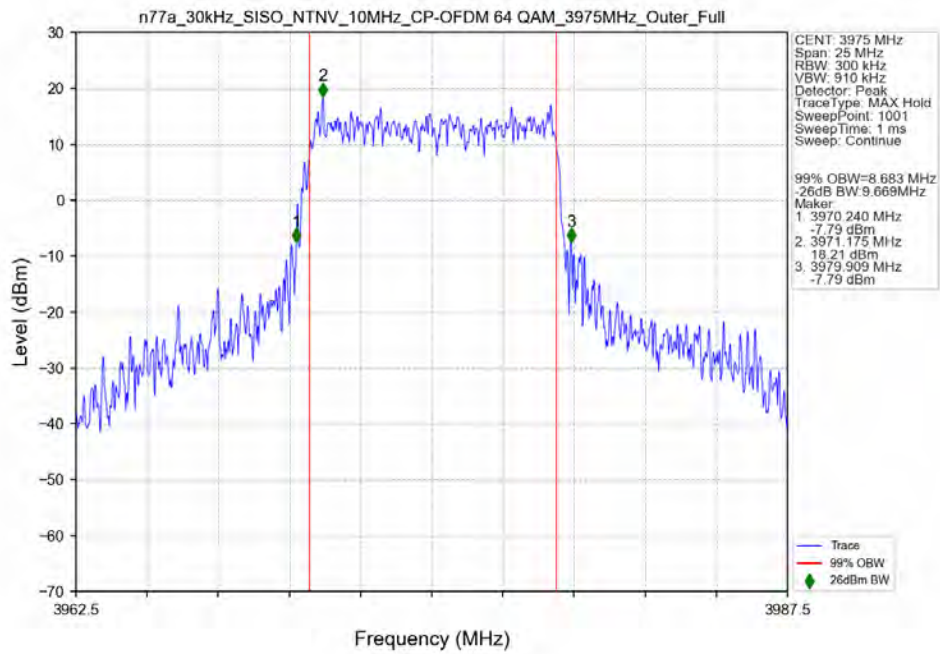
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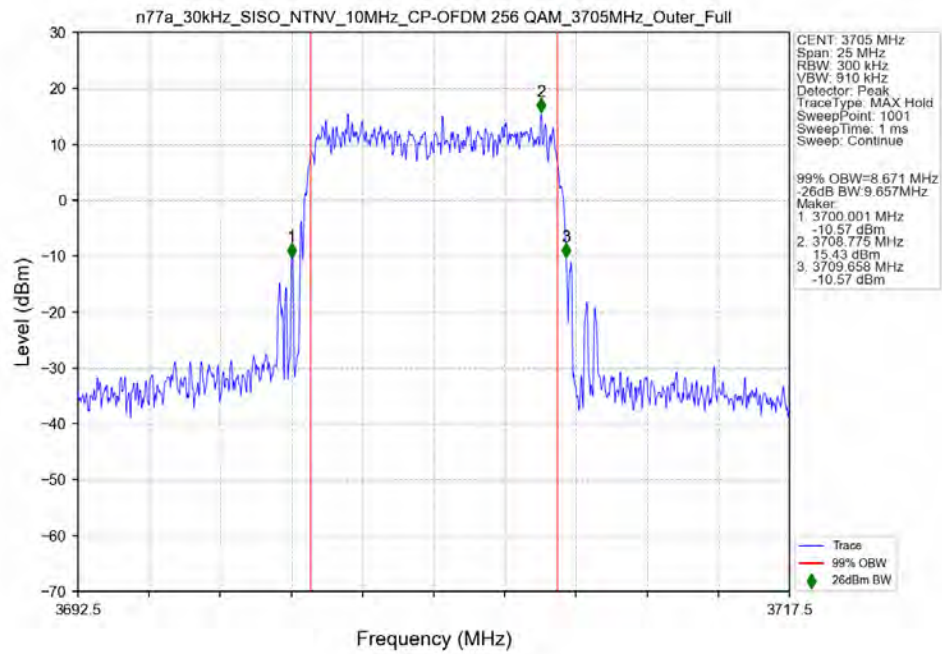
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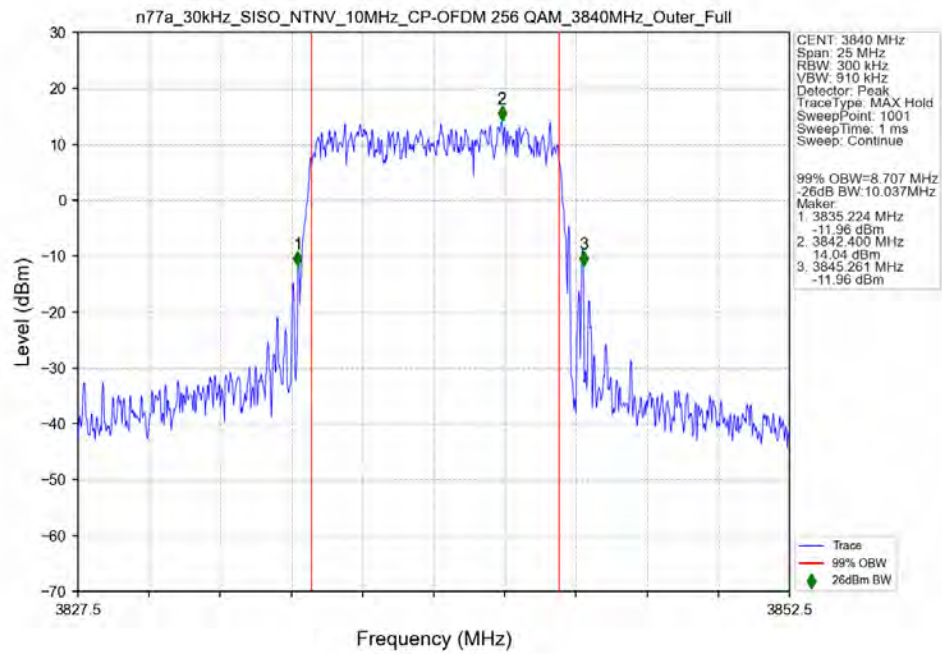
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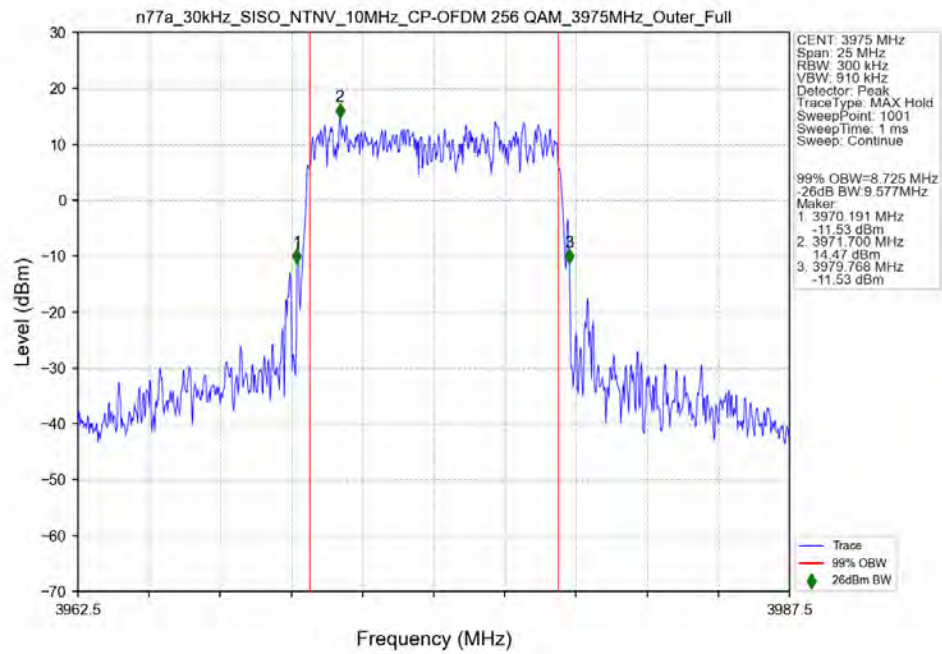
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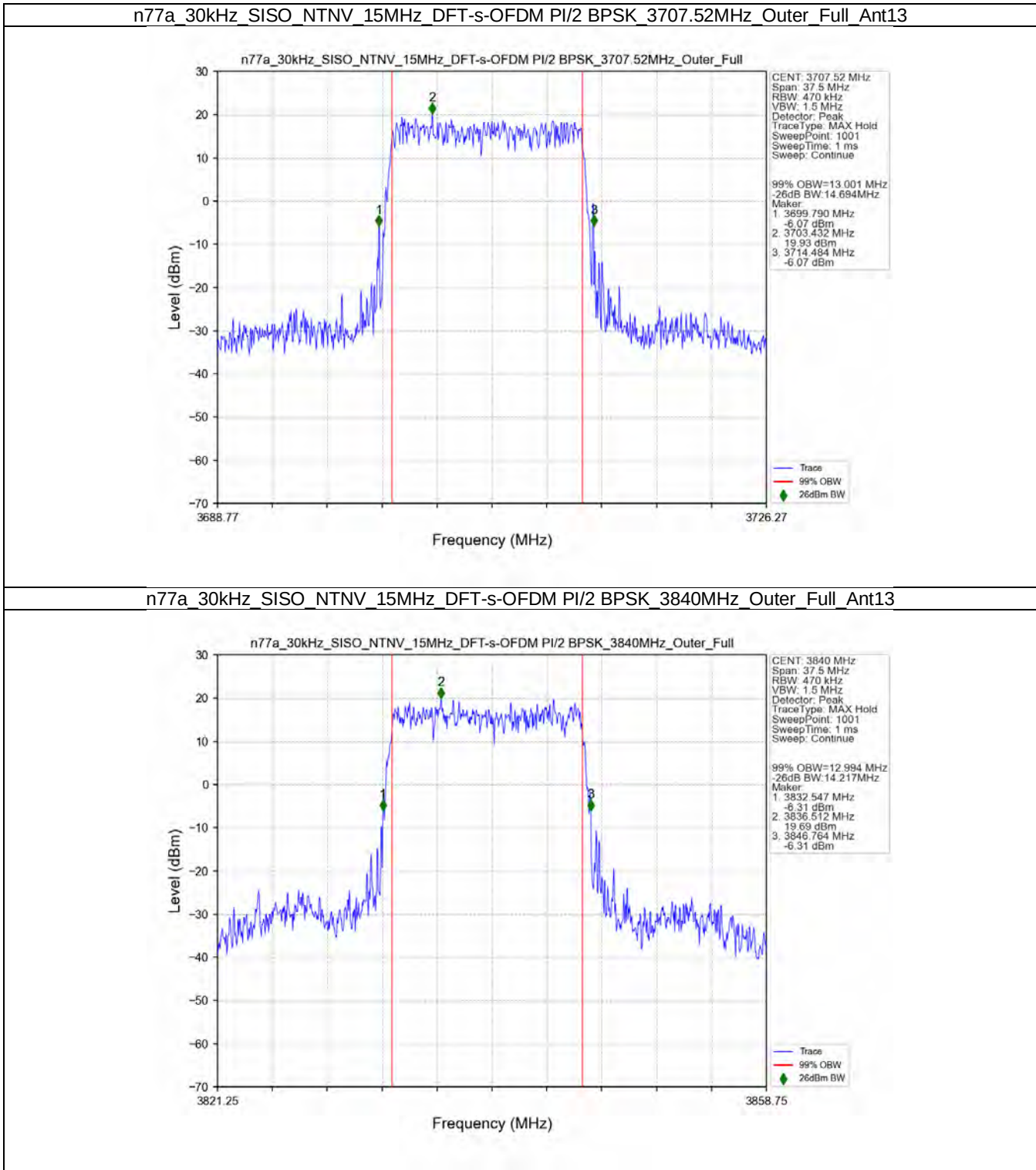
n77a_30kHz_SISO_NTNV_10MHz_CP-OFDM_256_QAM_3840MHz_Outer_Full_Ant13



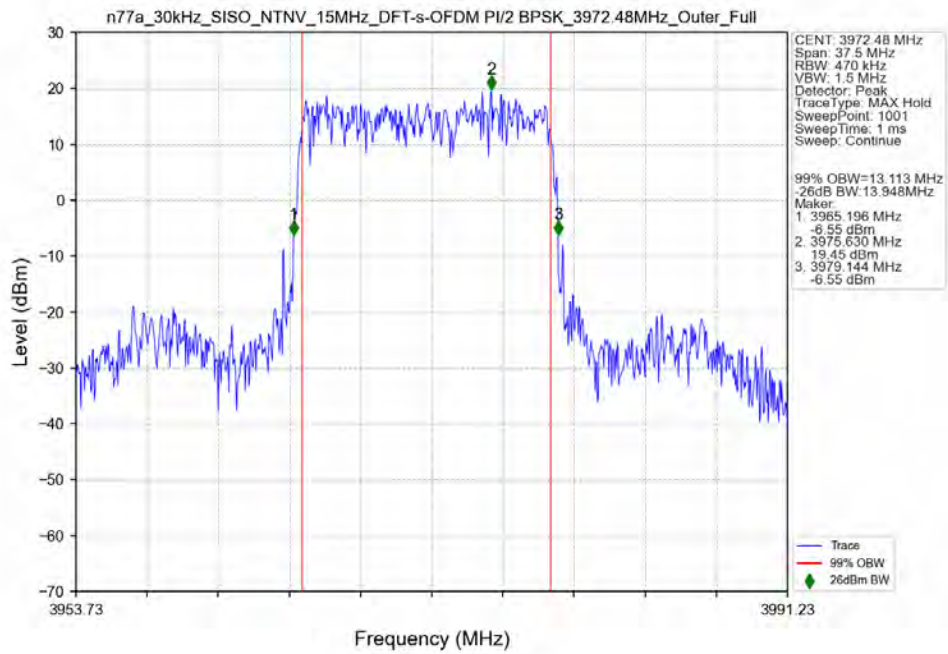
n77a_30kHz_SISO_NTNV_10MHz_CP-OFDM_256_QAM_3975MHz_Outer_Full_Ant13



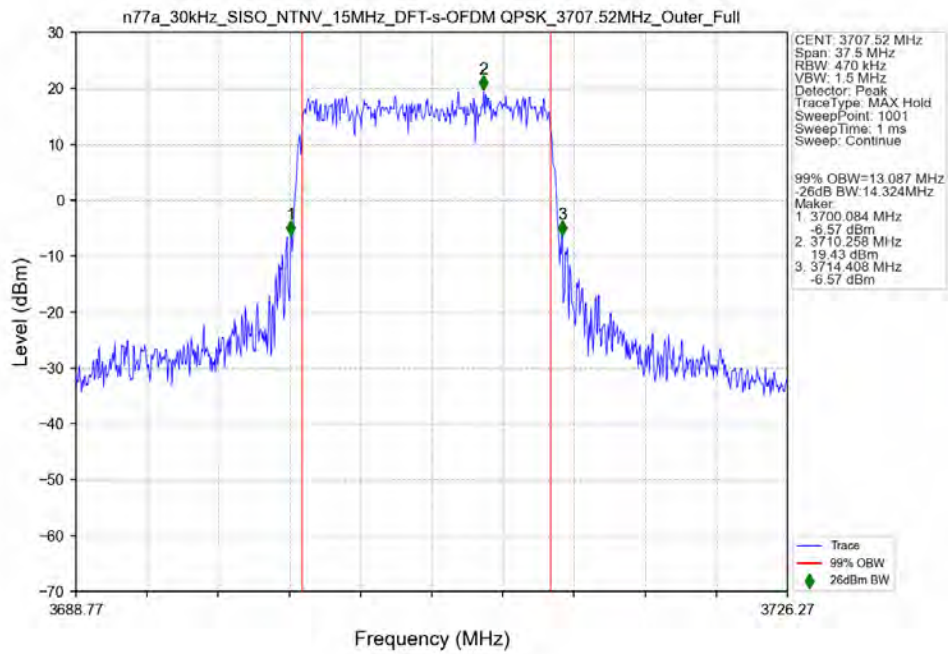
3.2.2 30k_SISO_15MHz_NTNV



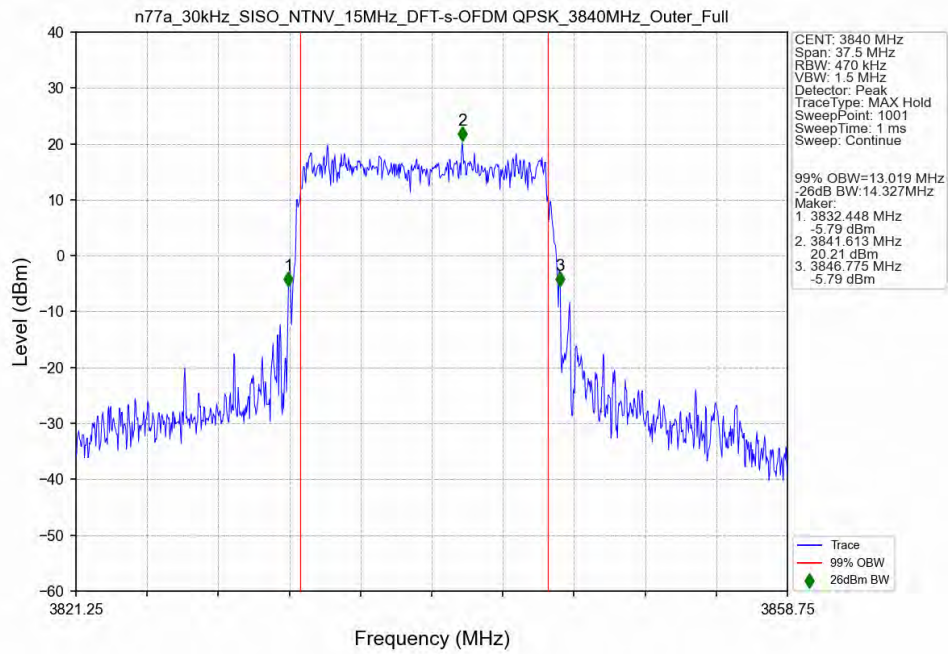
n77a 30kHz SISO NTN 15MHz DFT-s-OFDM PI/2 BPSK 3972.48MHz Outer Full Ant13



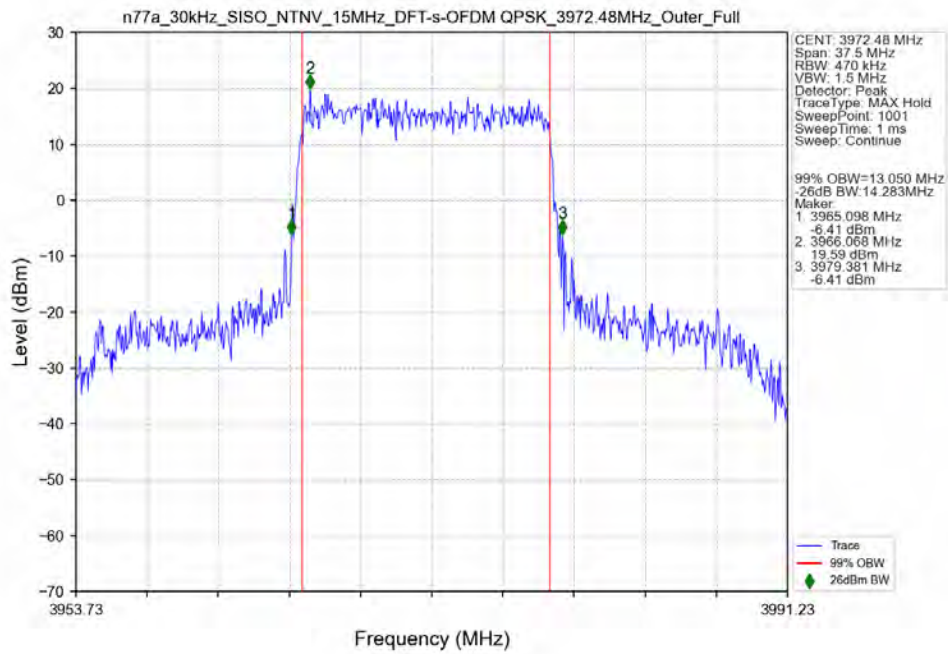
n77a 30kHz SISO NTN 15MHz DFT-s-OFDM QPSK 3707.52MHz Outer Full Ant13



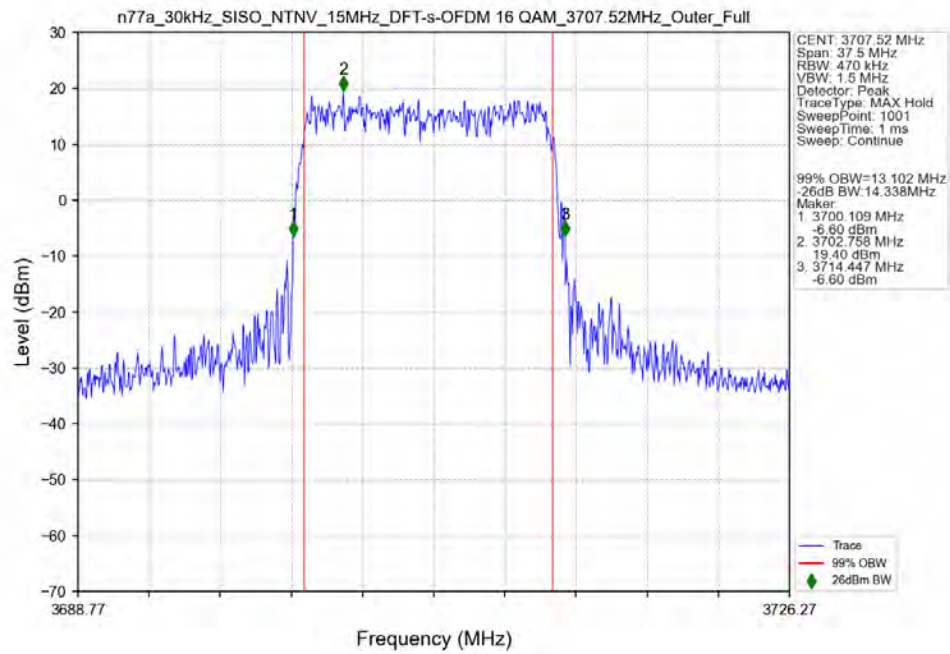
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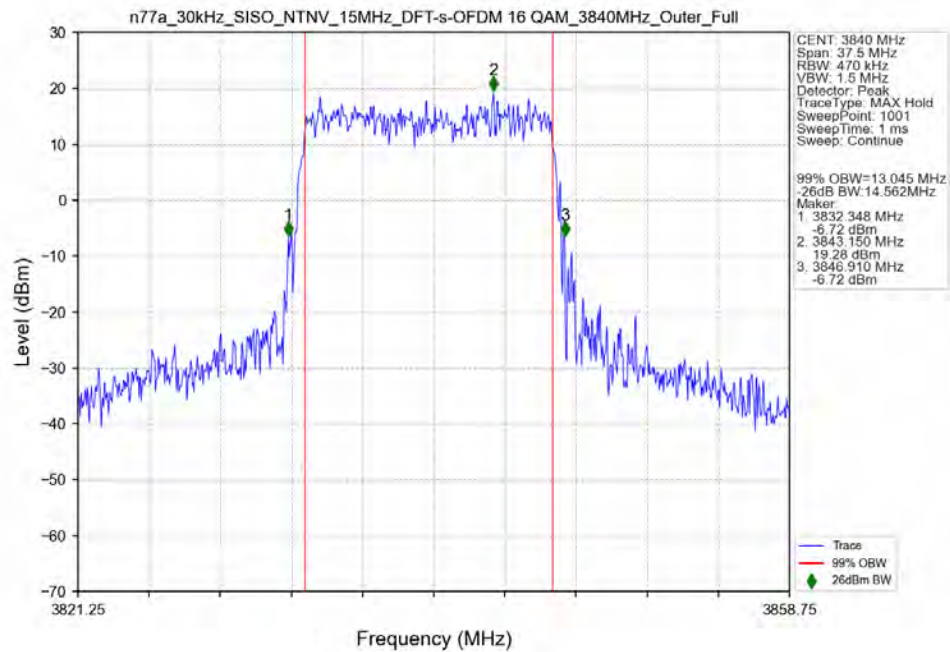
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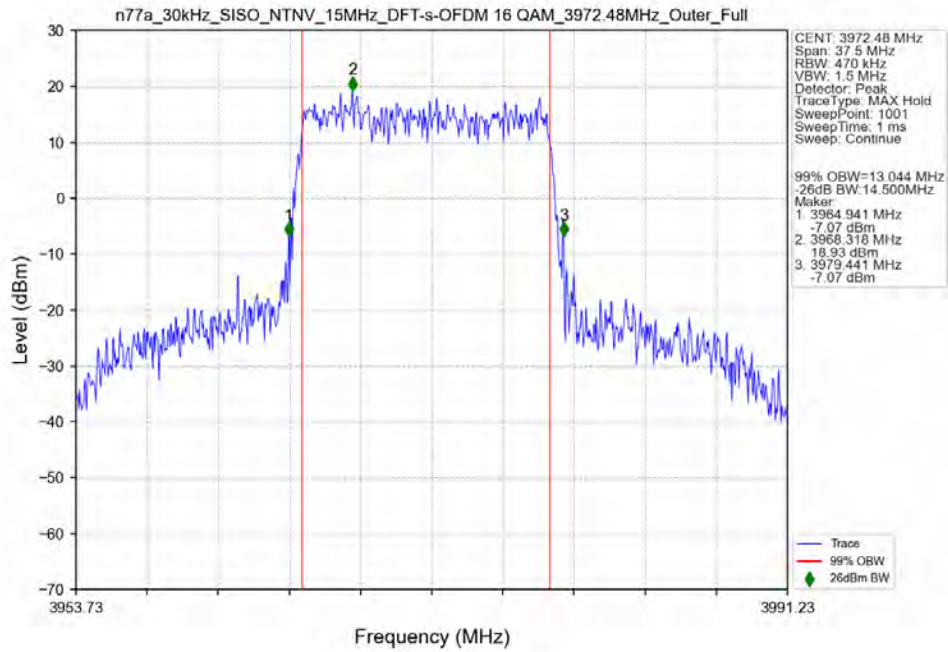
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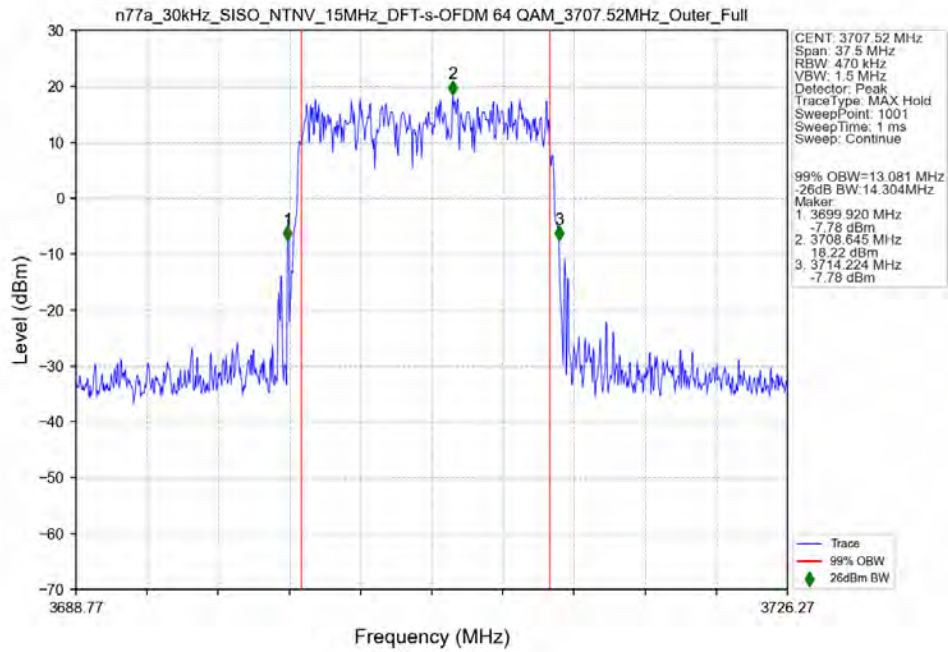
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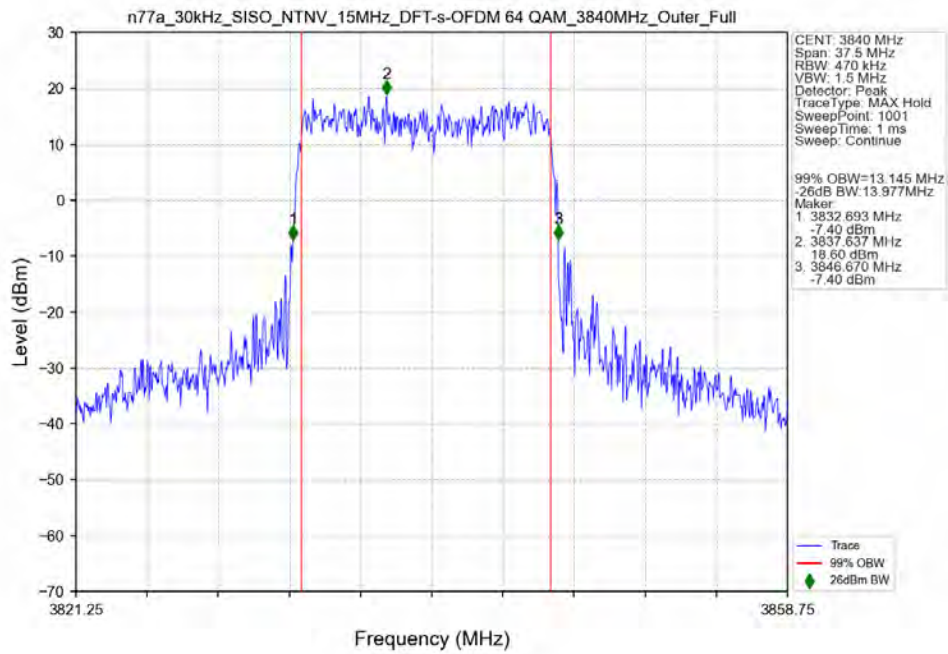
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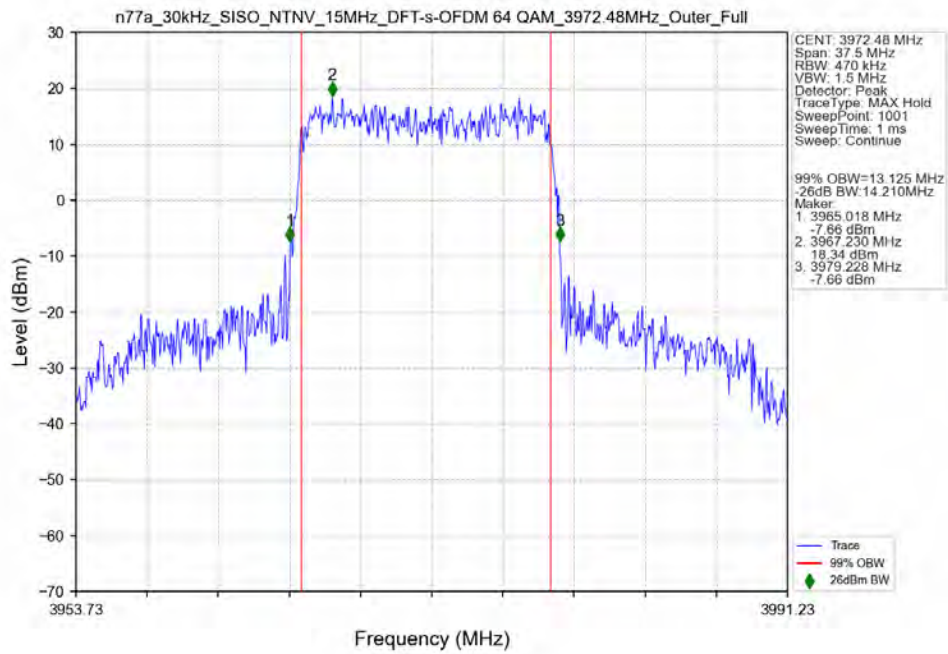
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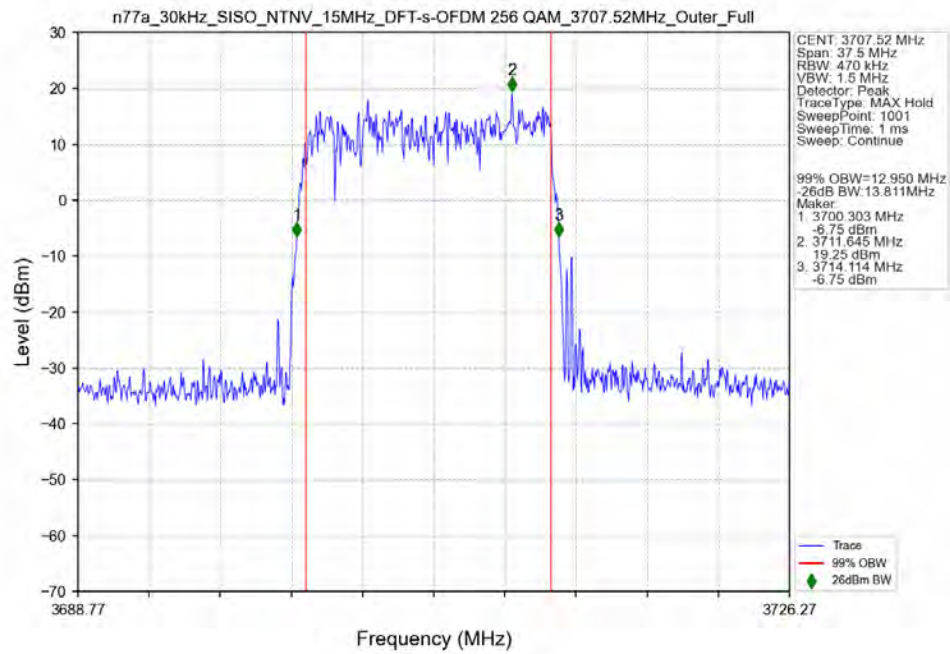
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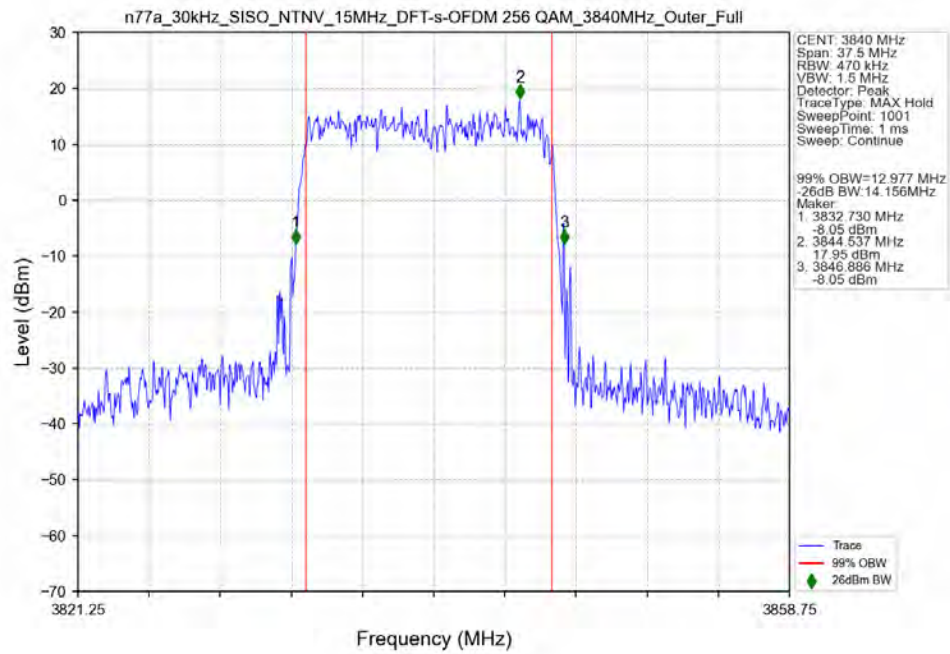
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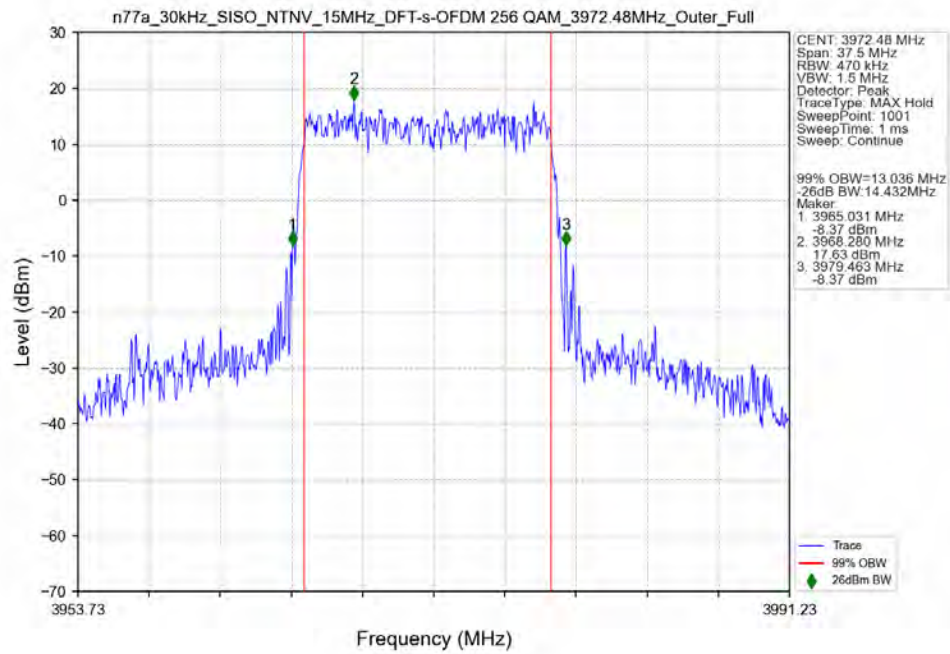
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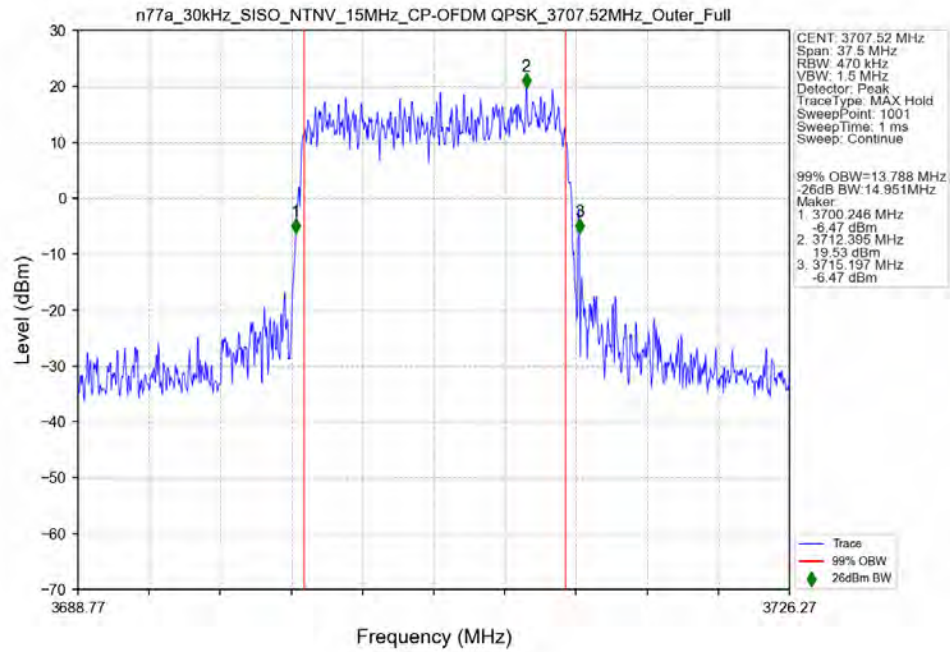
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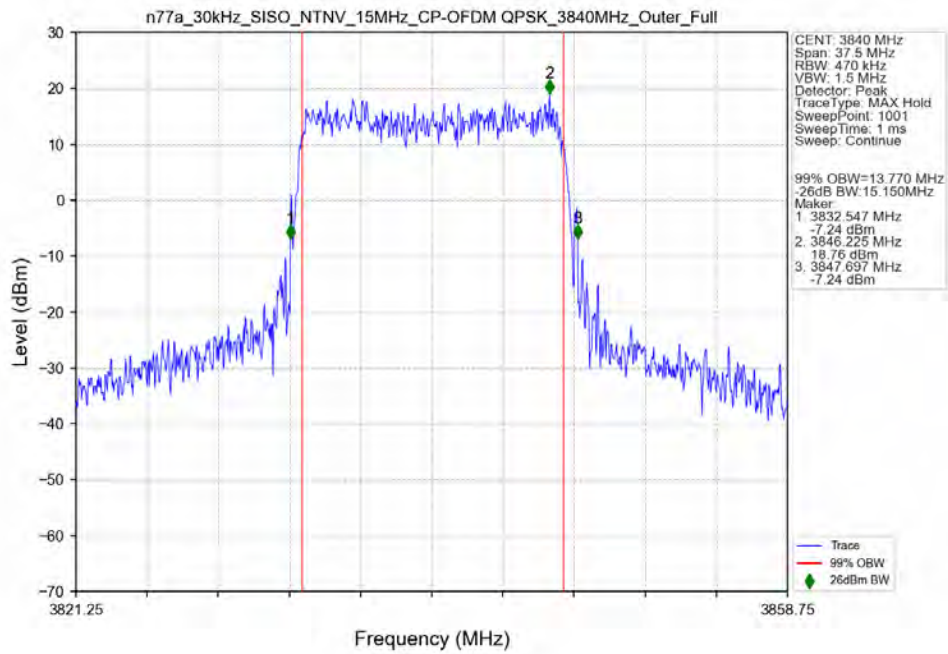
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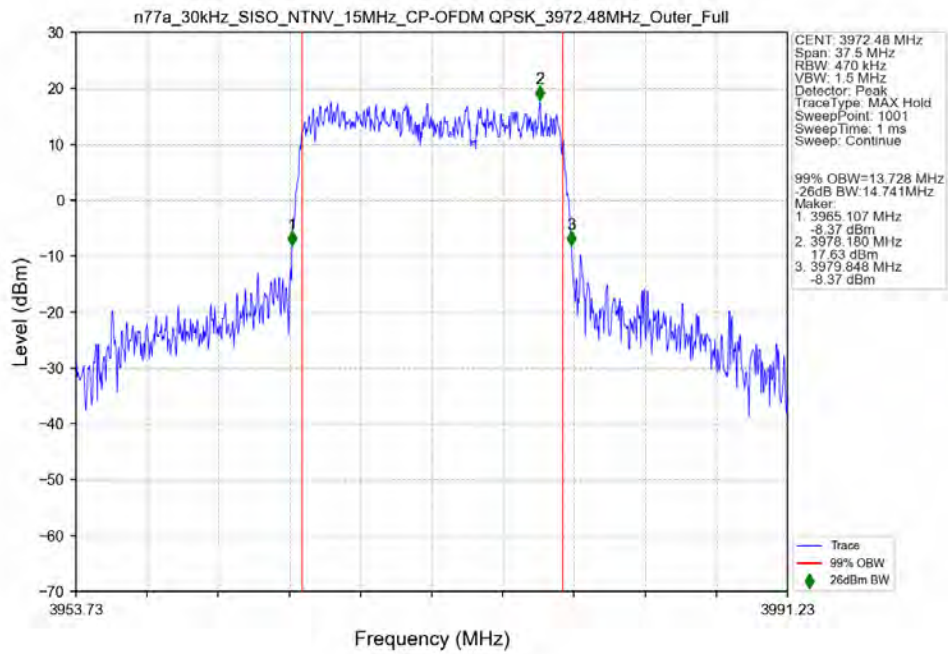
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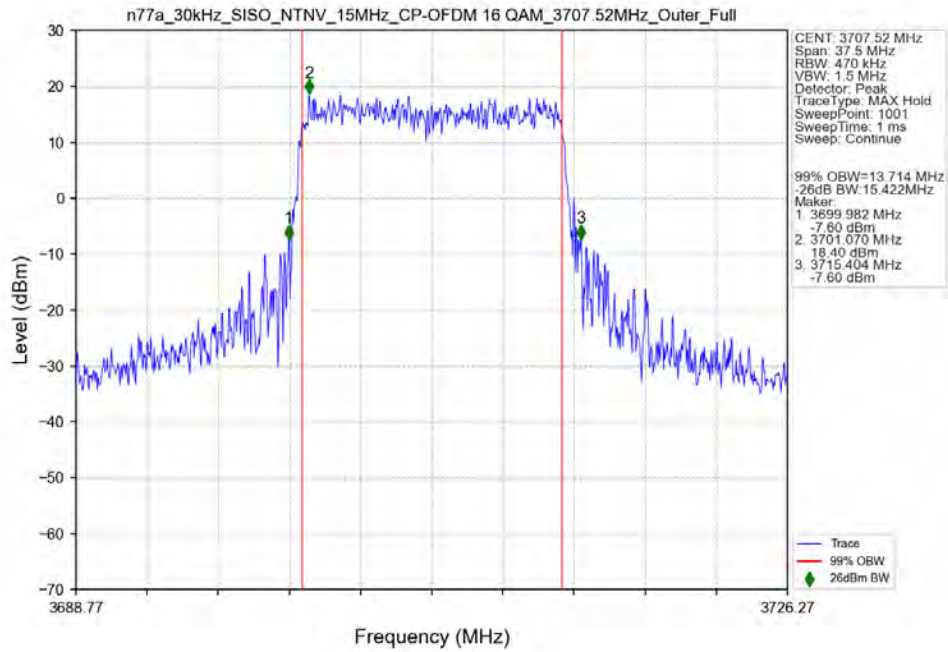
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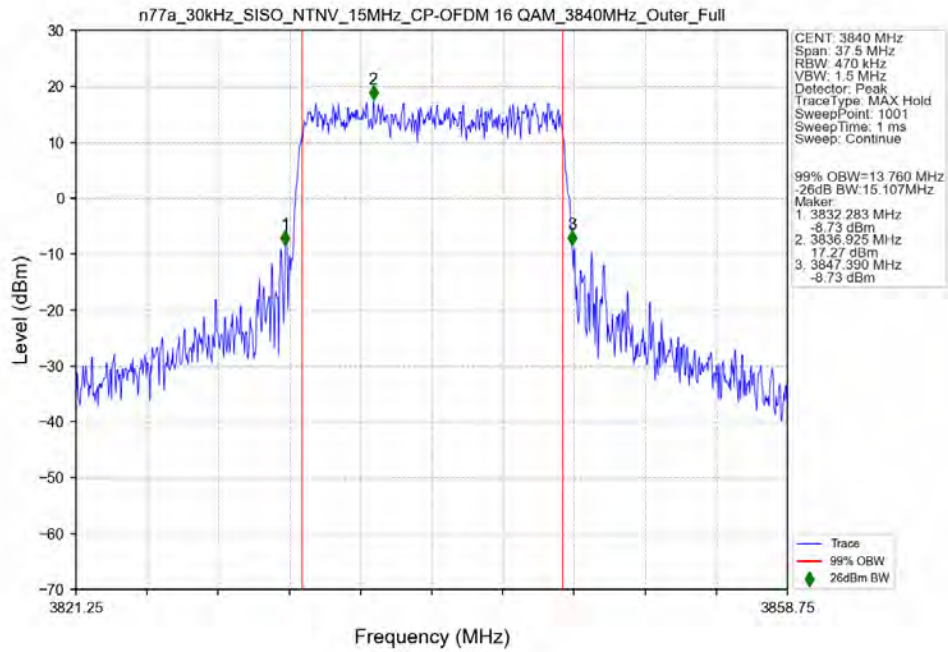
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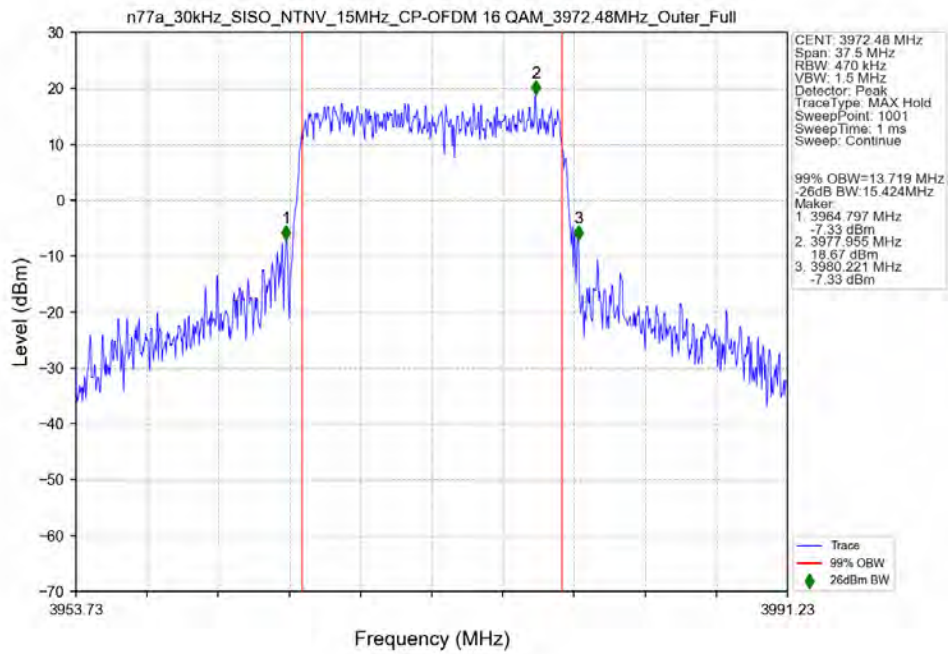
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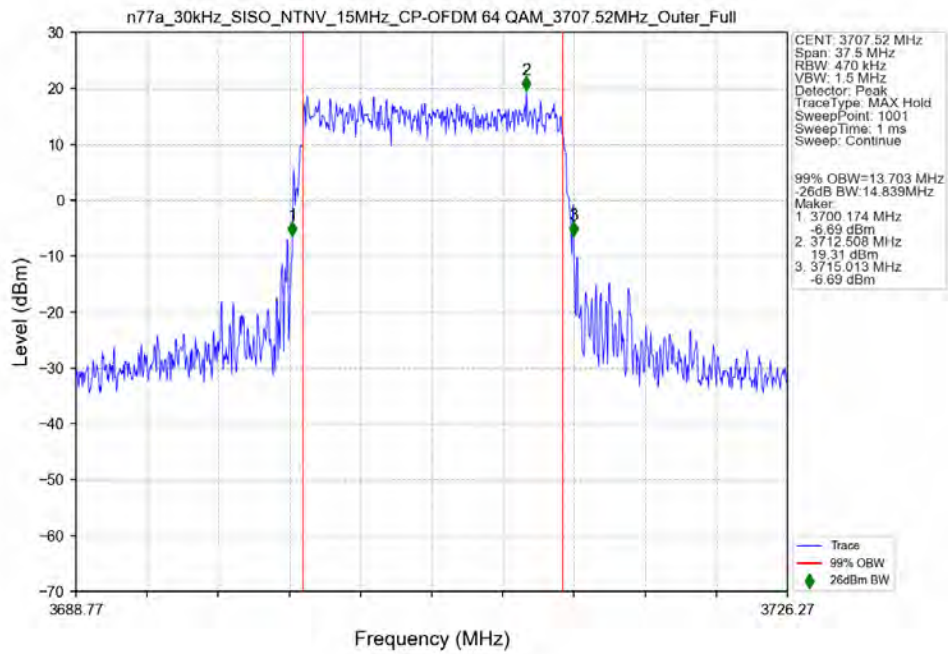
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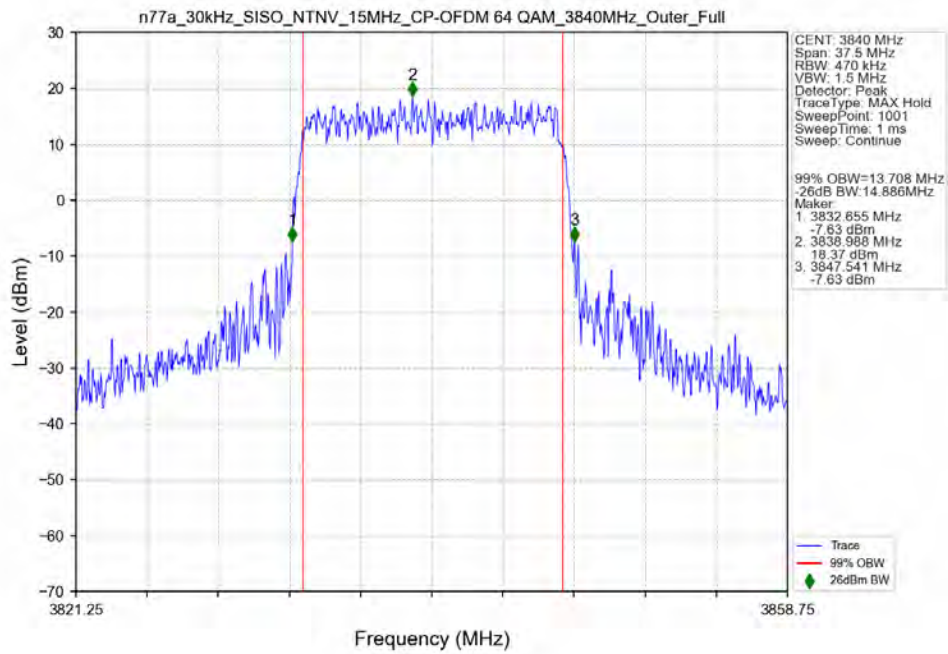
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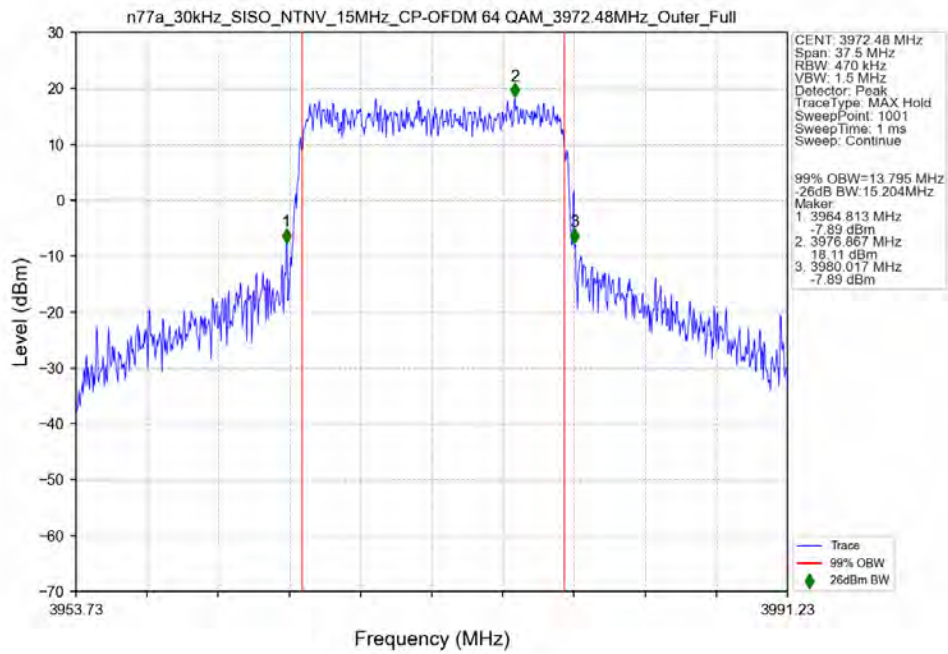
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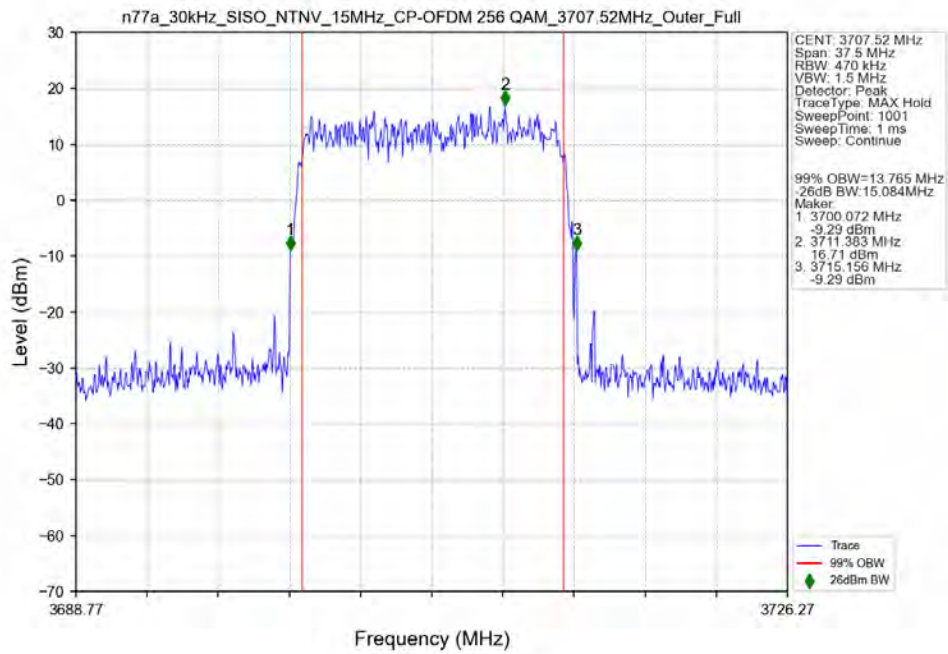
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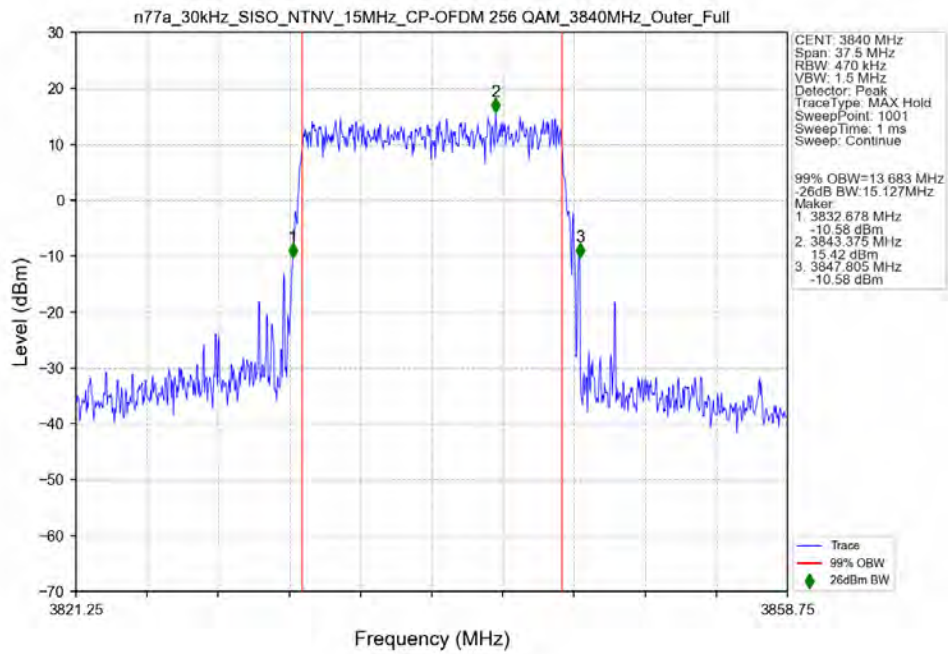
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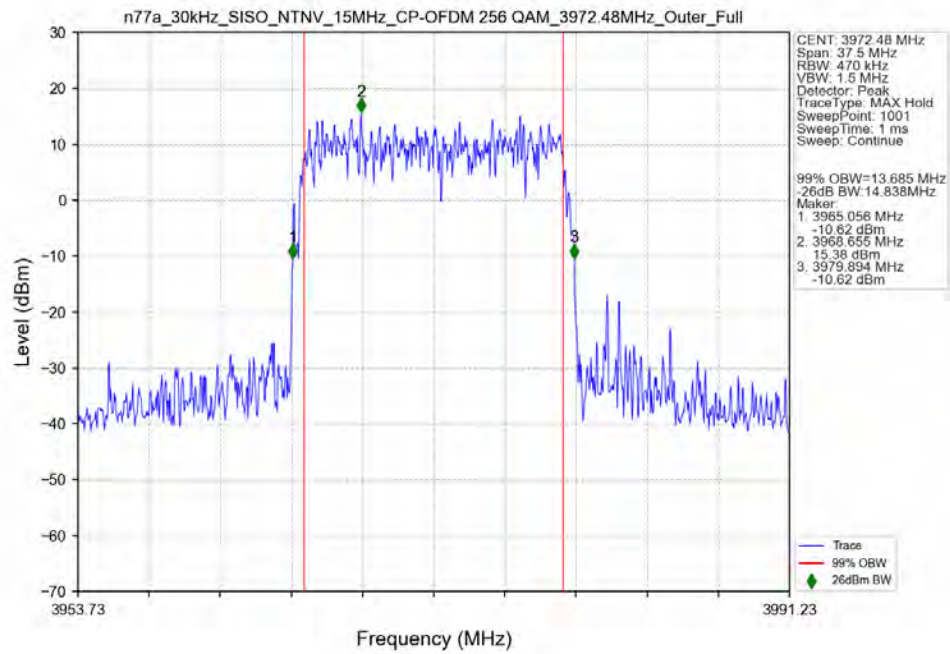
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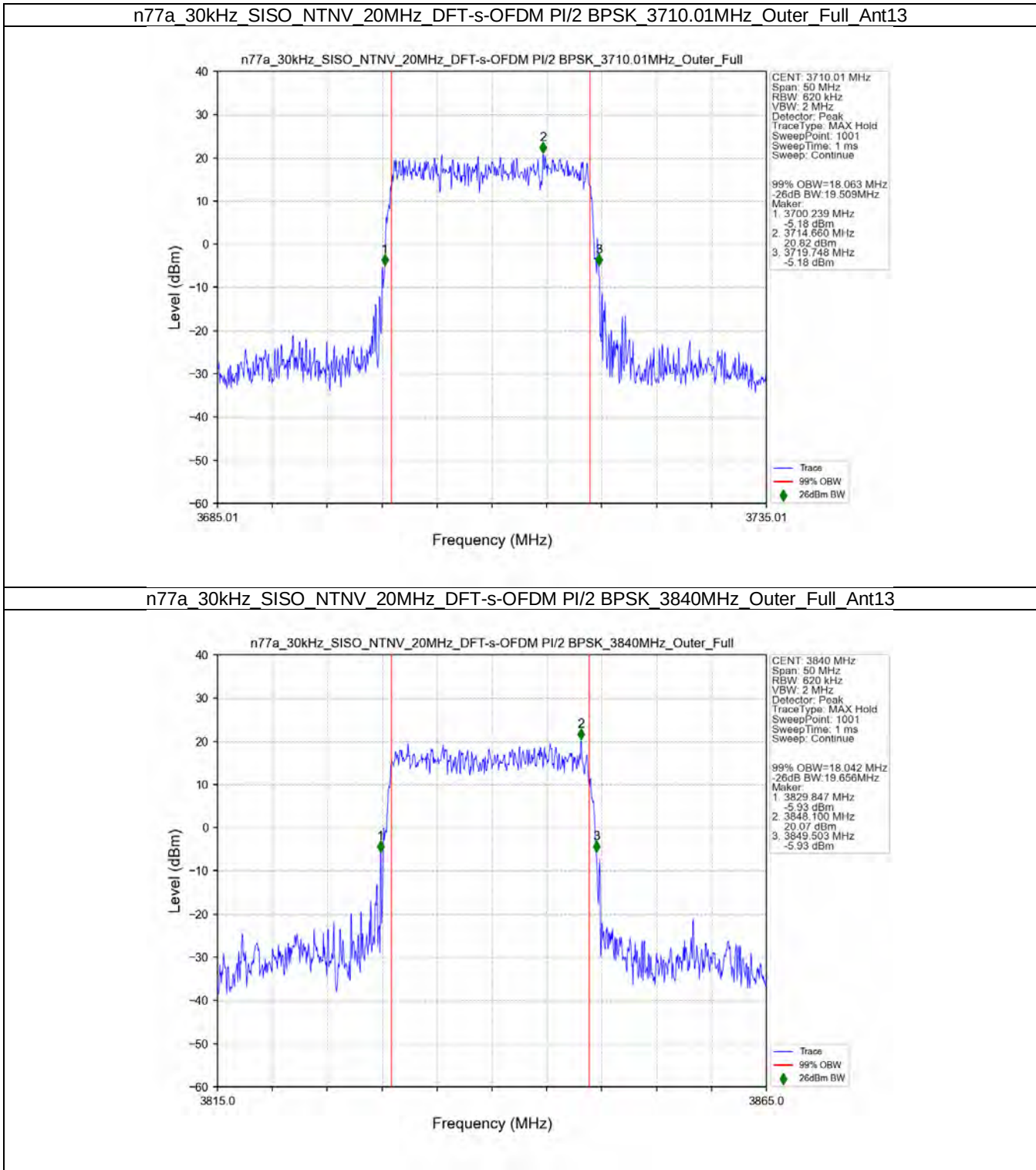
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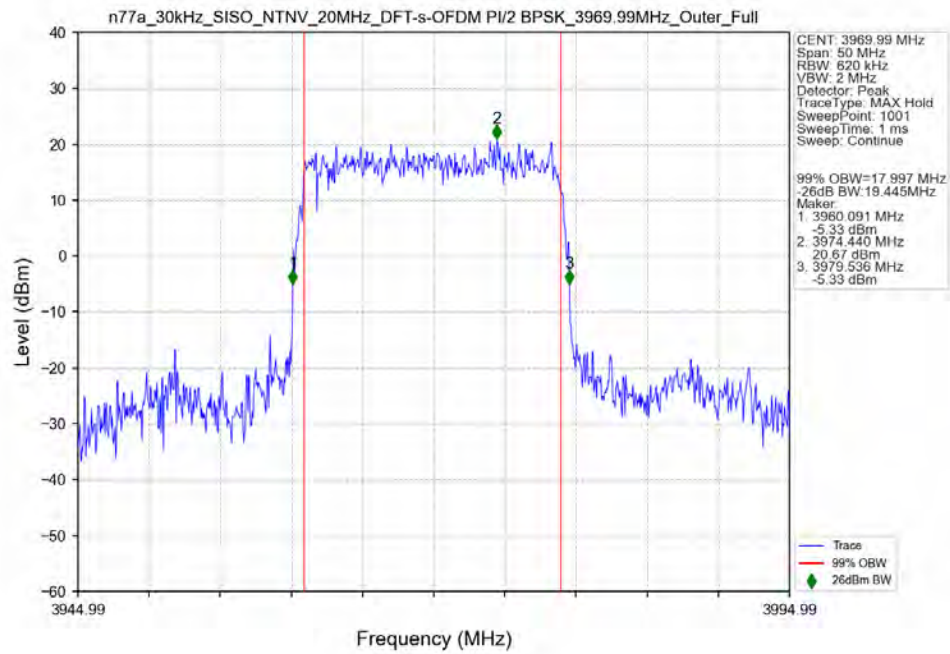
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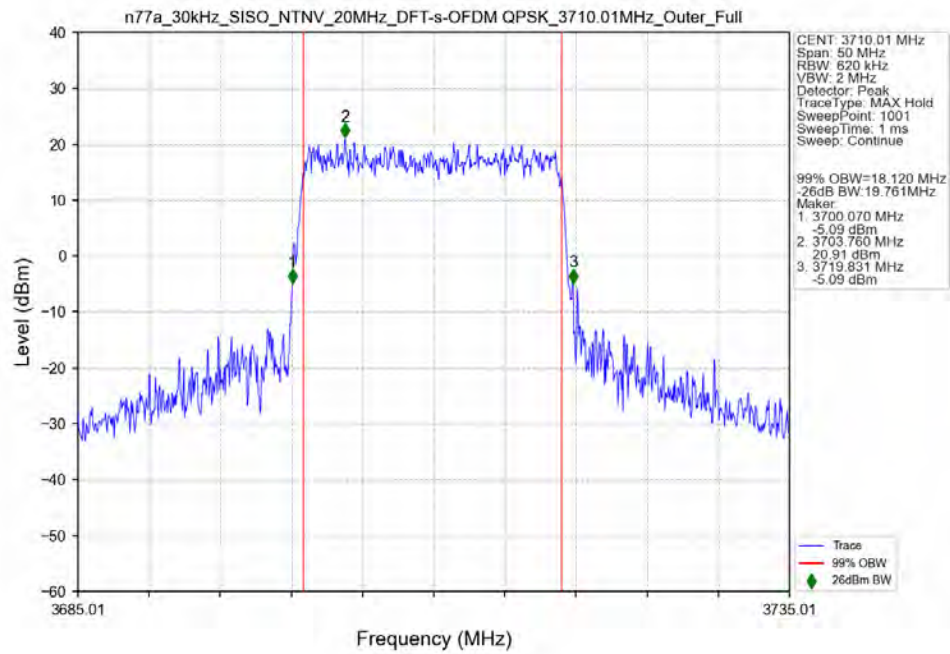
3.2.3 30k_SISO_20MHz_NTNV



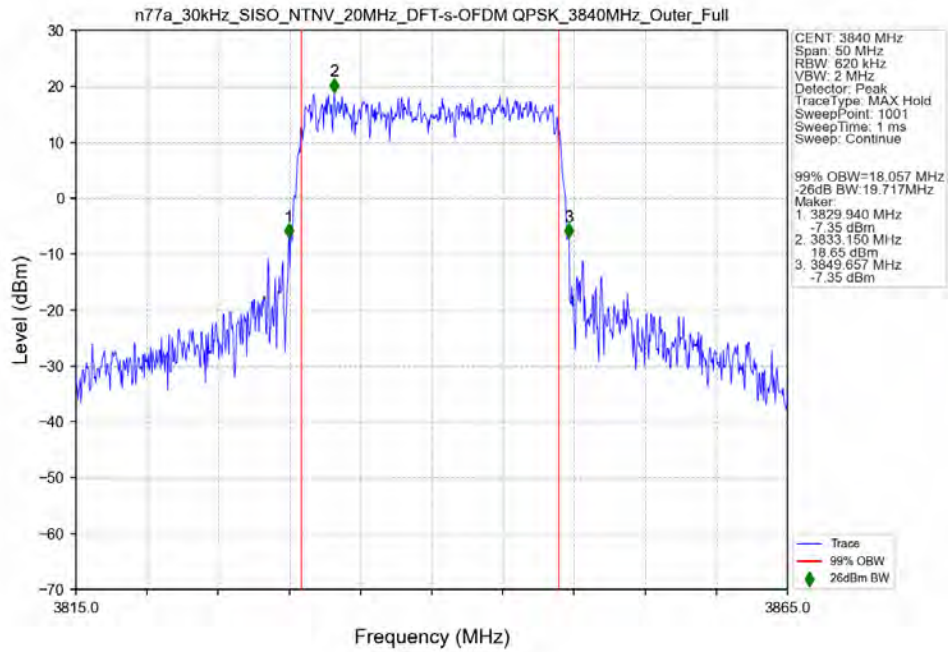
n77a 30kHz SISO NTN 20MHz DFT-s-OFDM PI/2 BPSK 3969.99MHz Outer Full Ant13



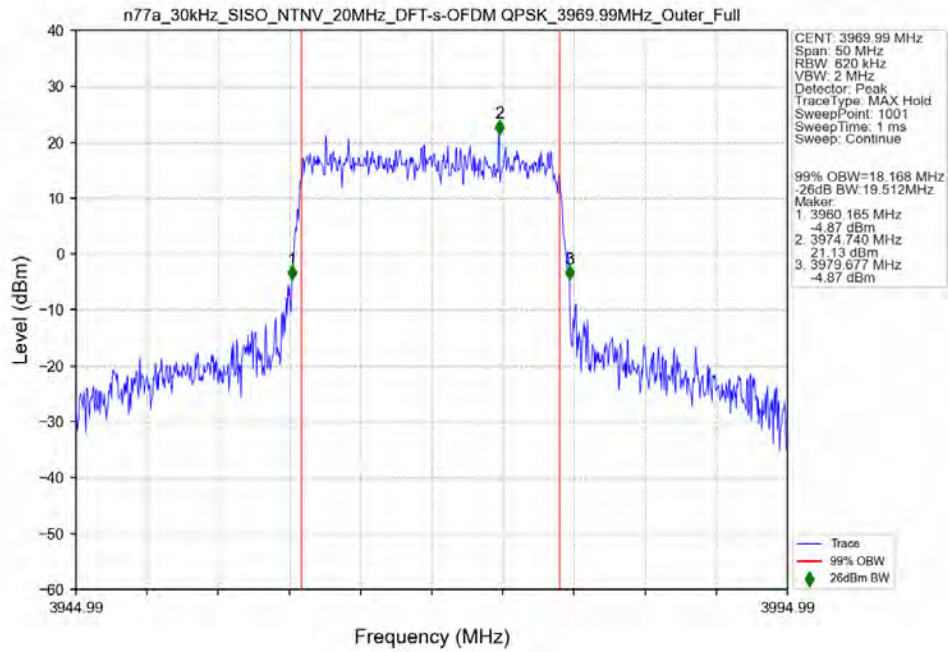
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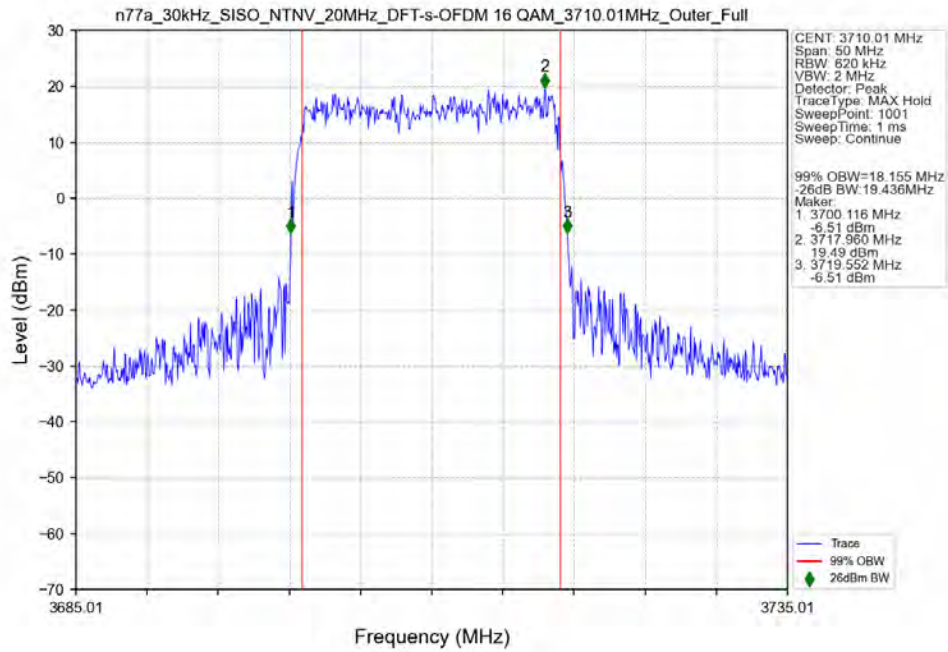
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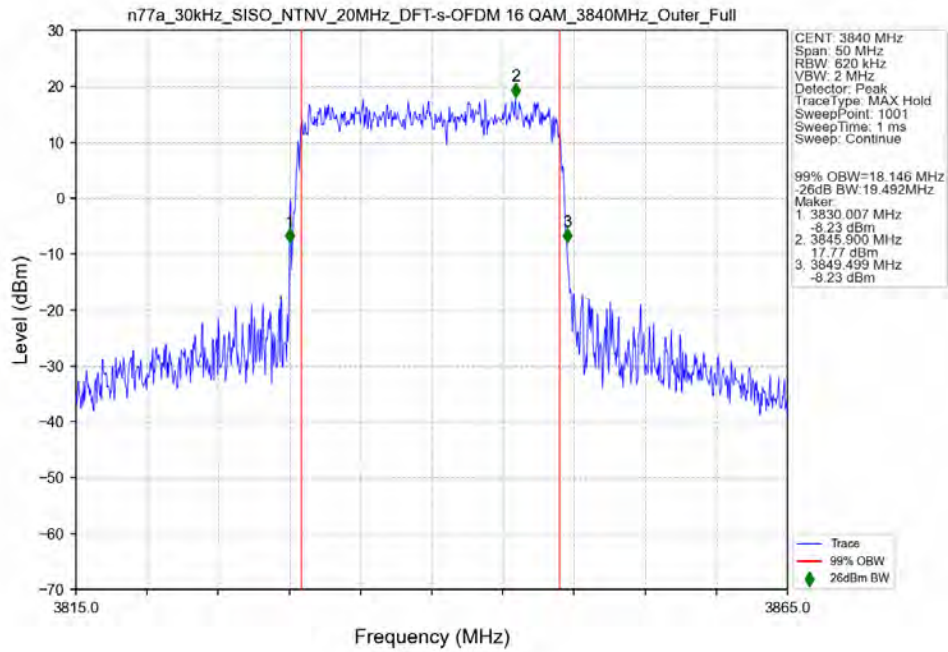
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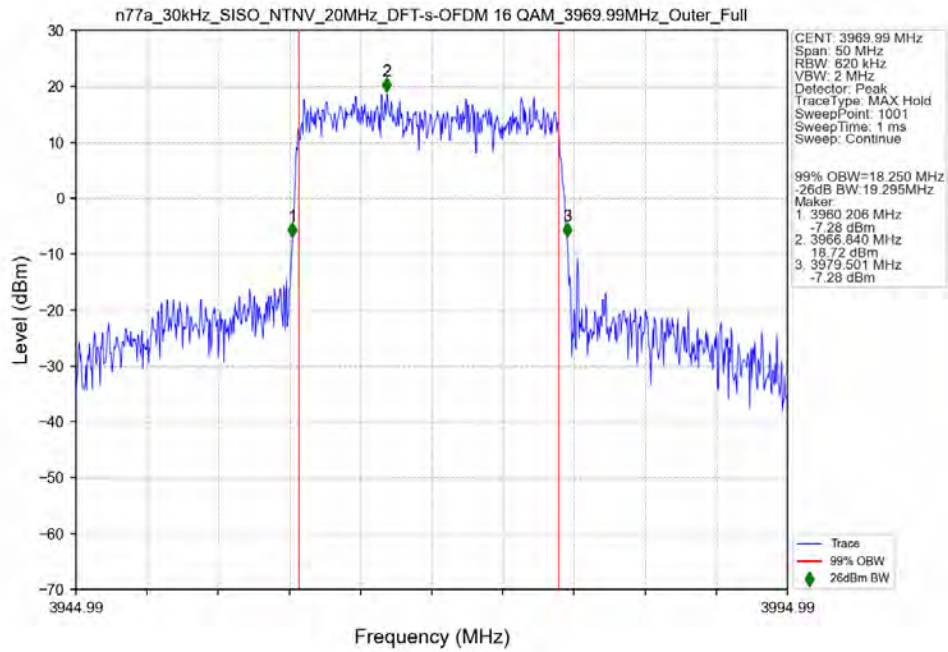
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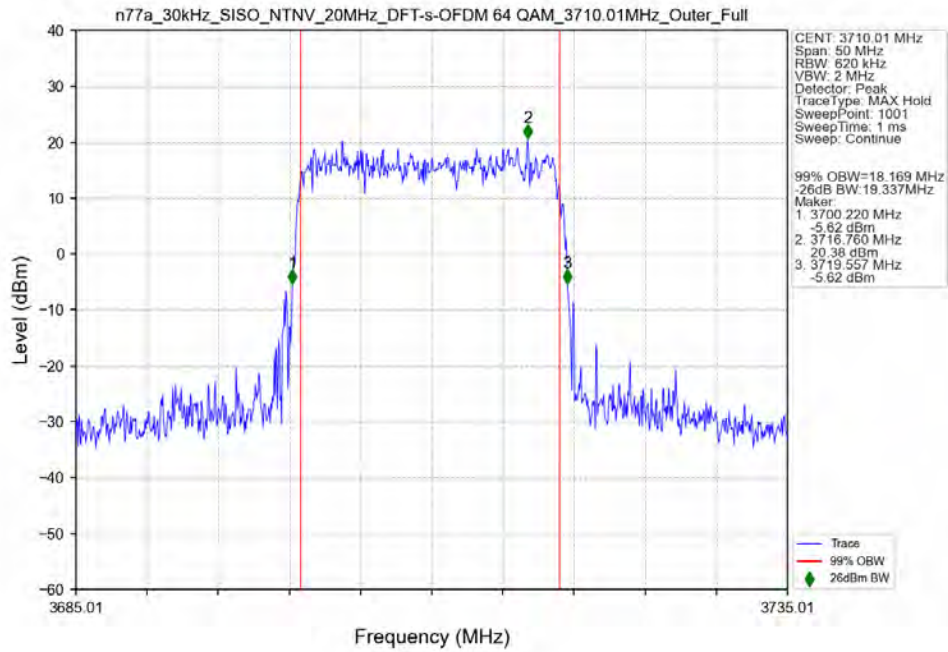
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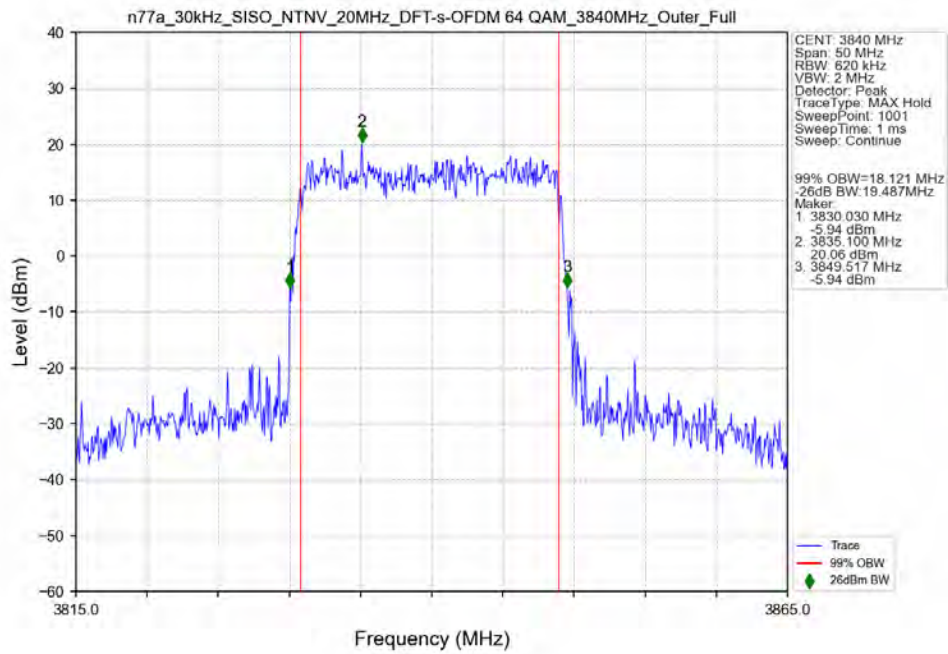
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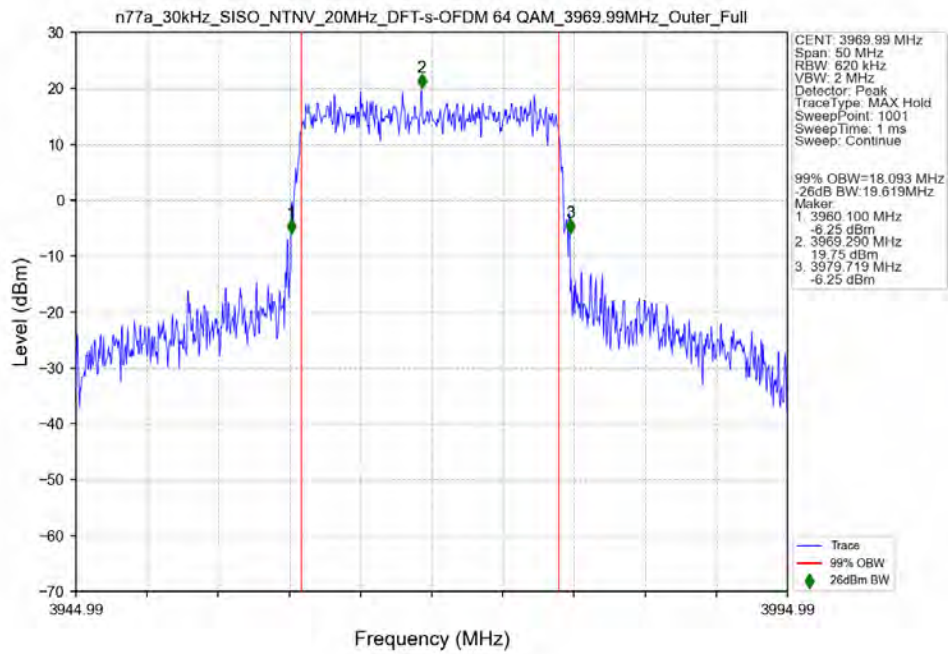
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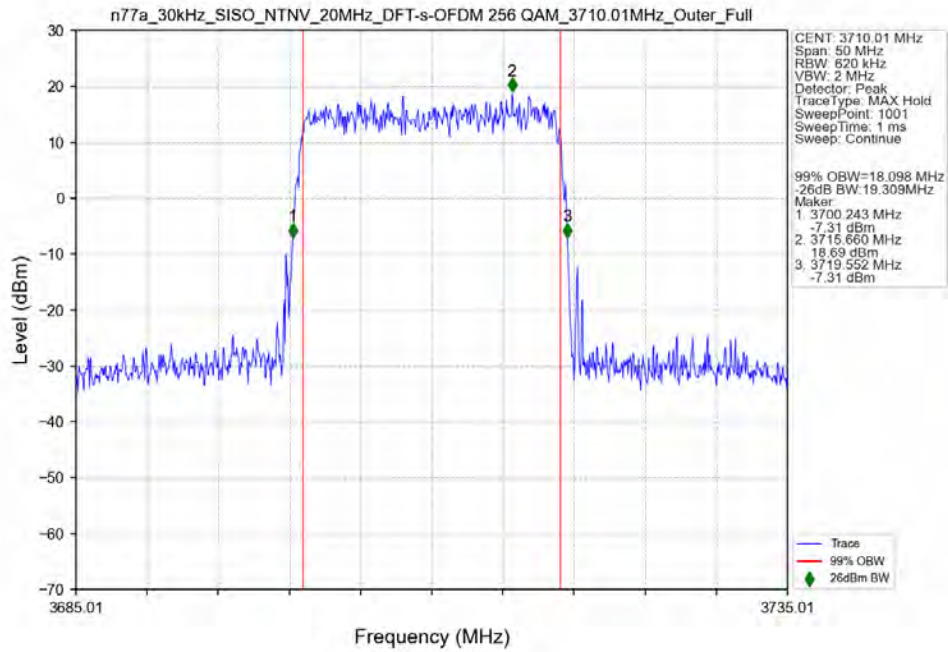
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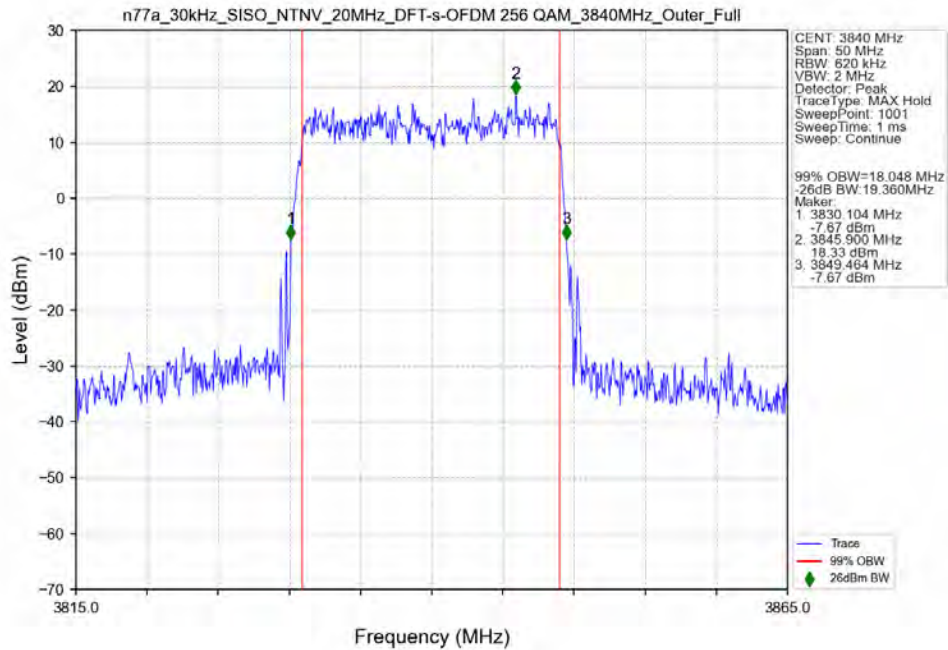
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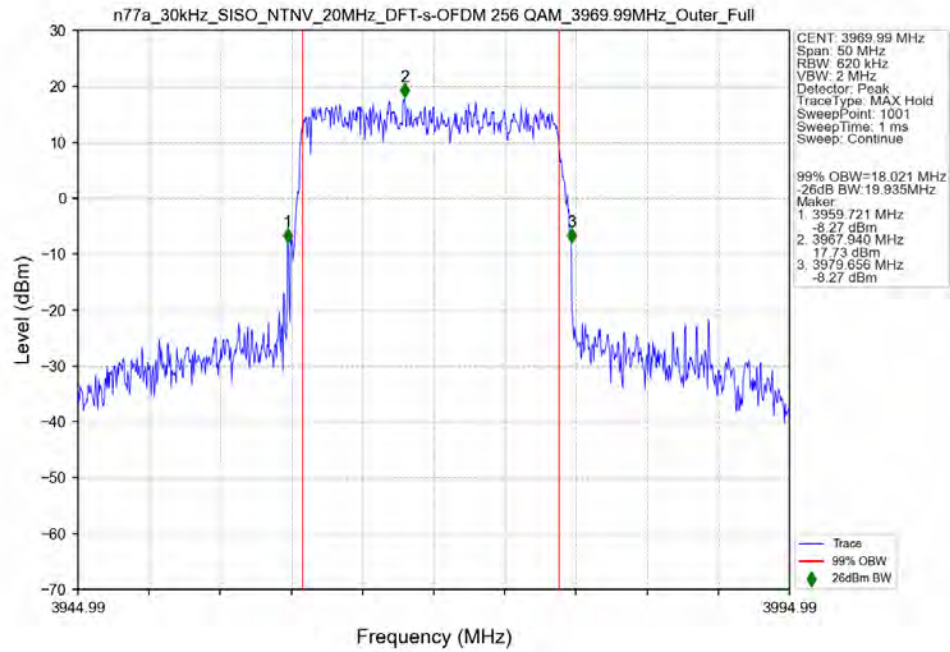
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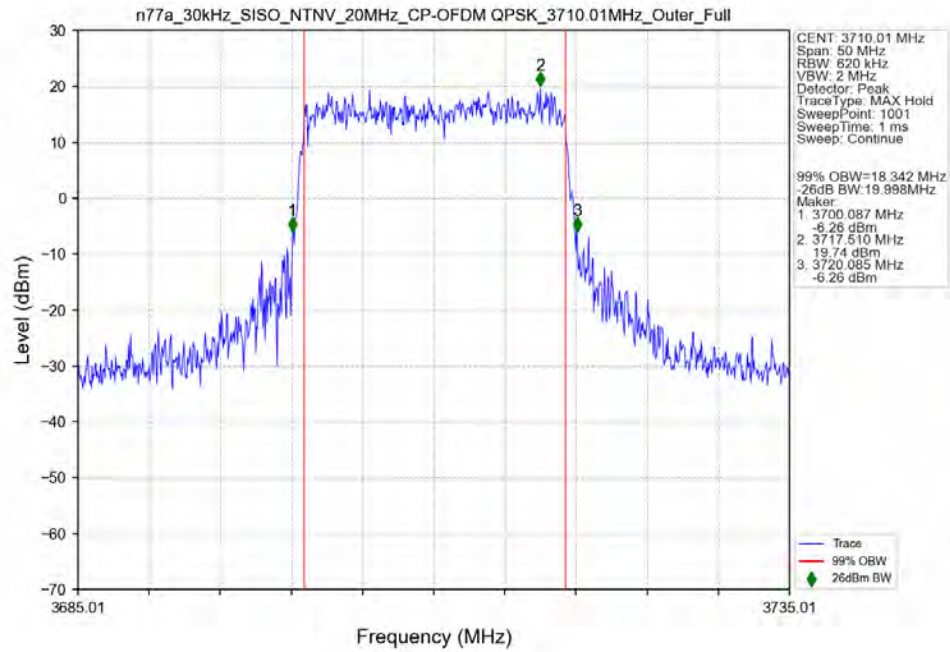
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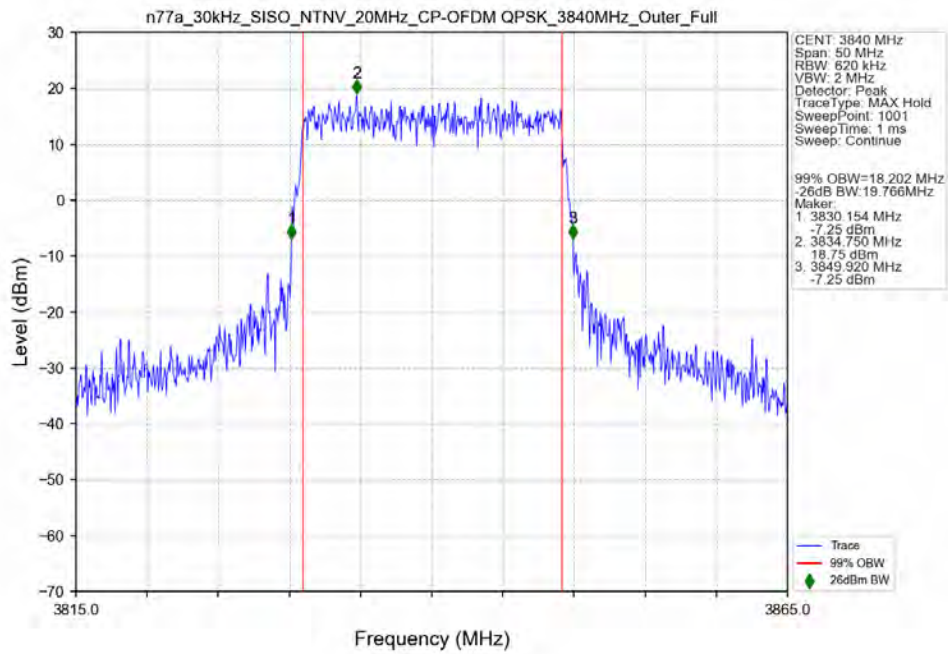
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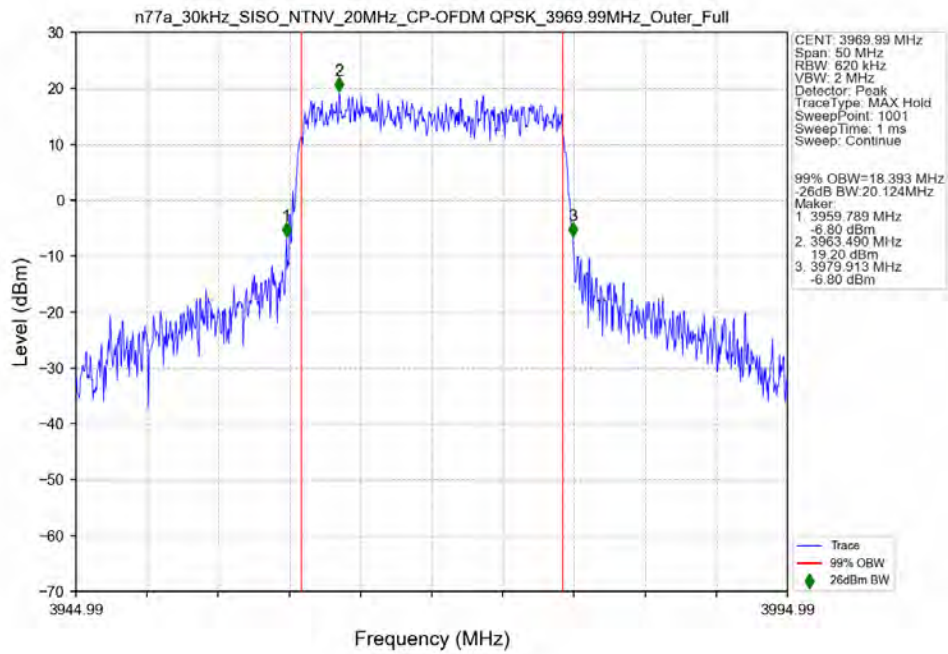
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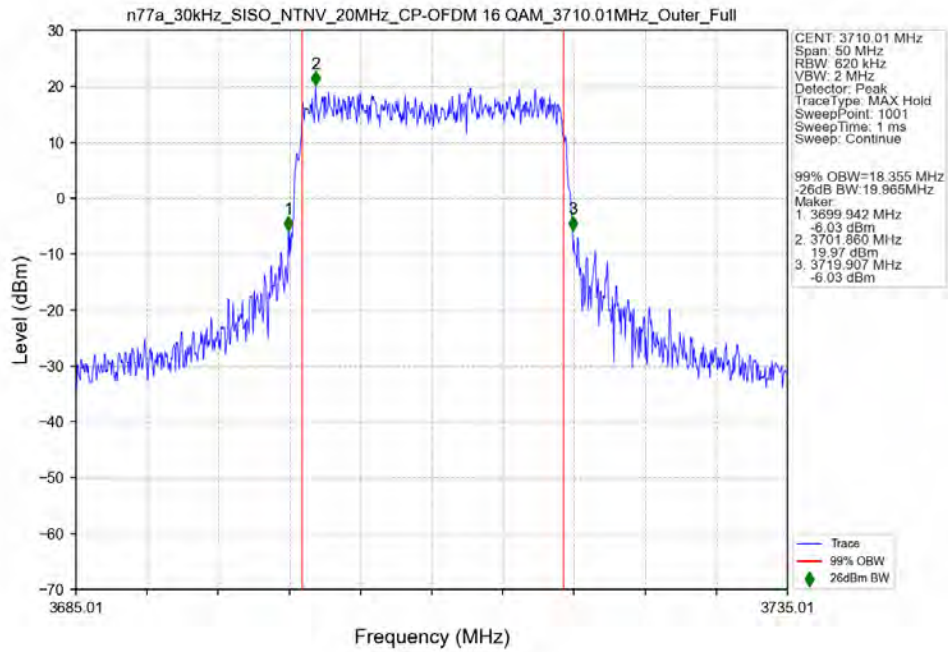
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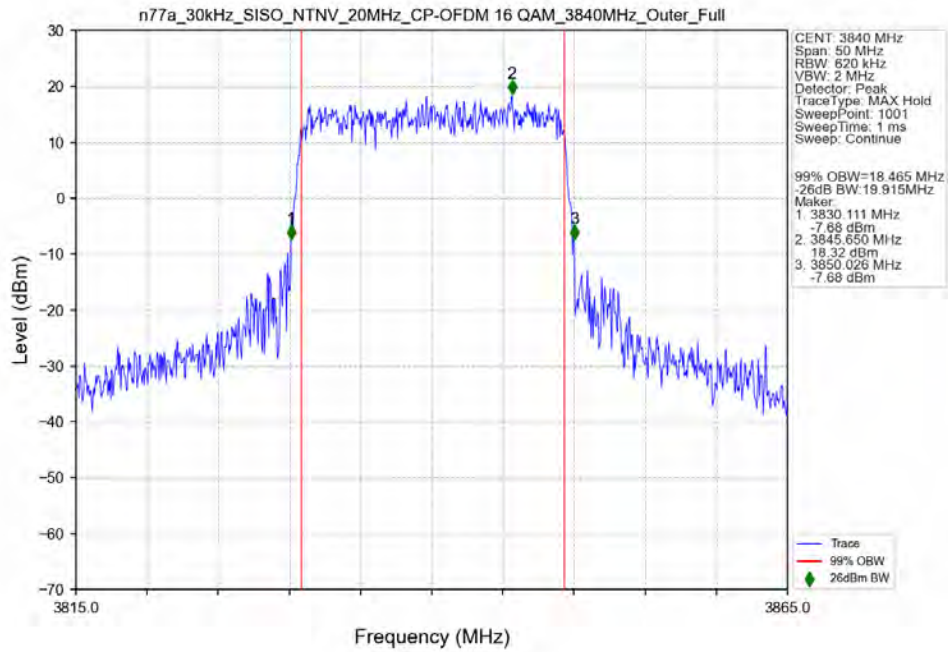
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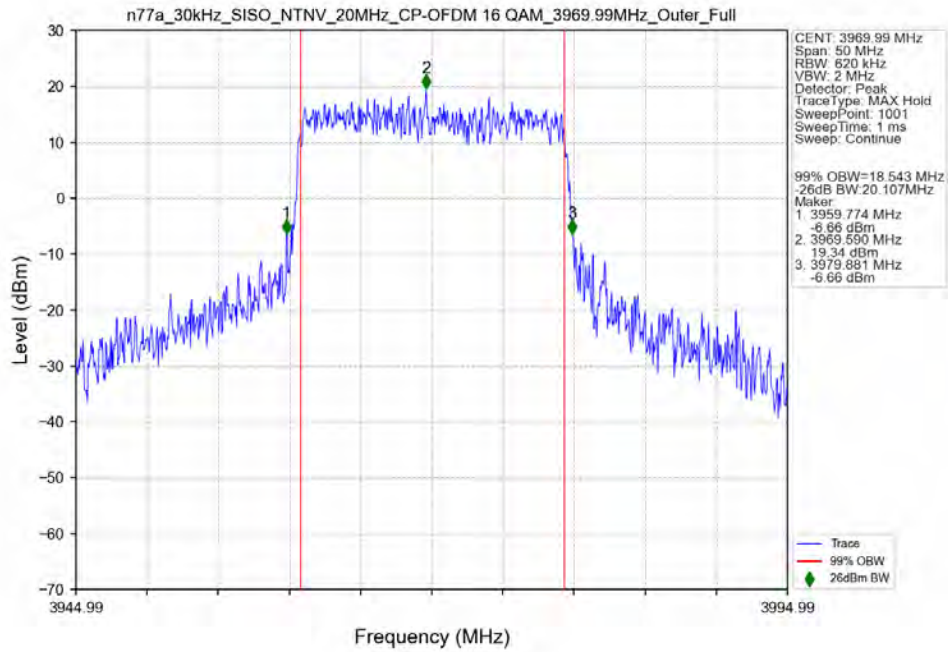
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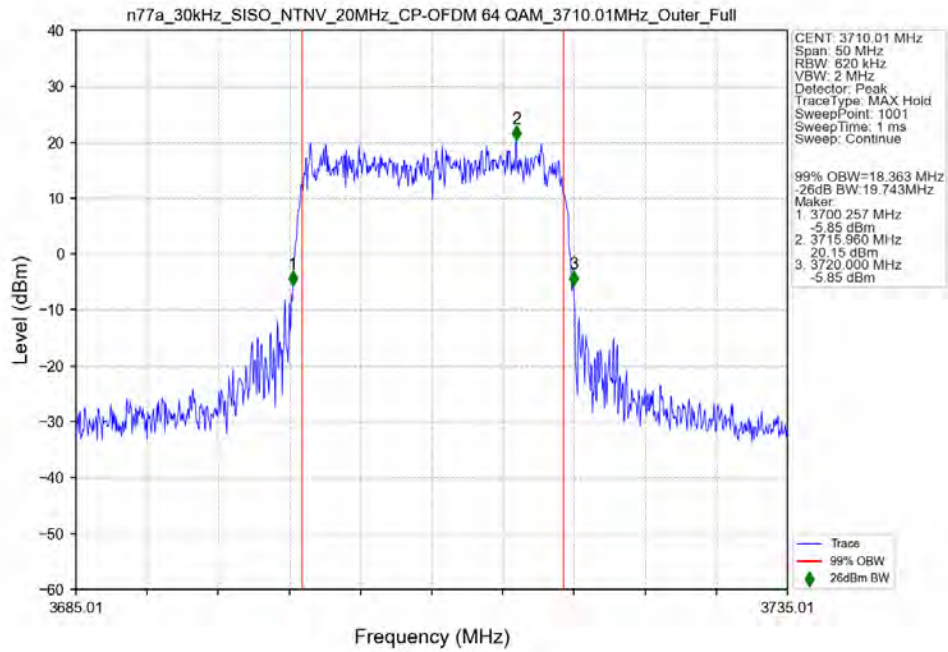
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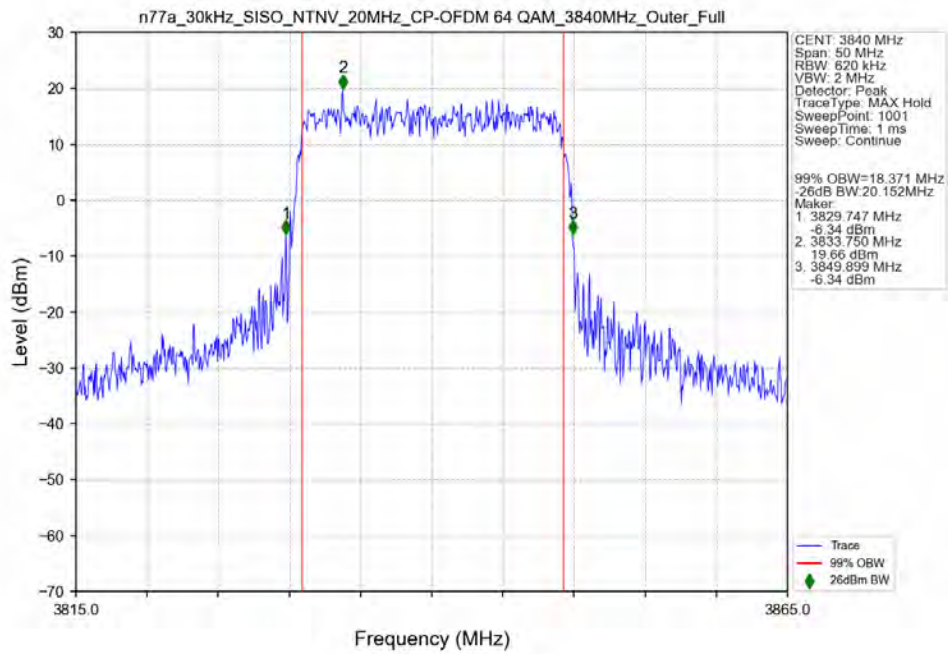
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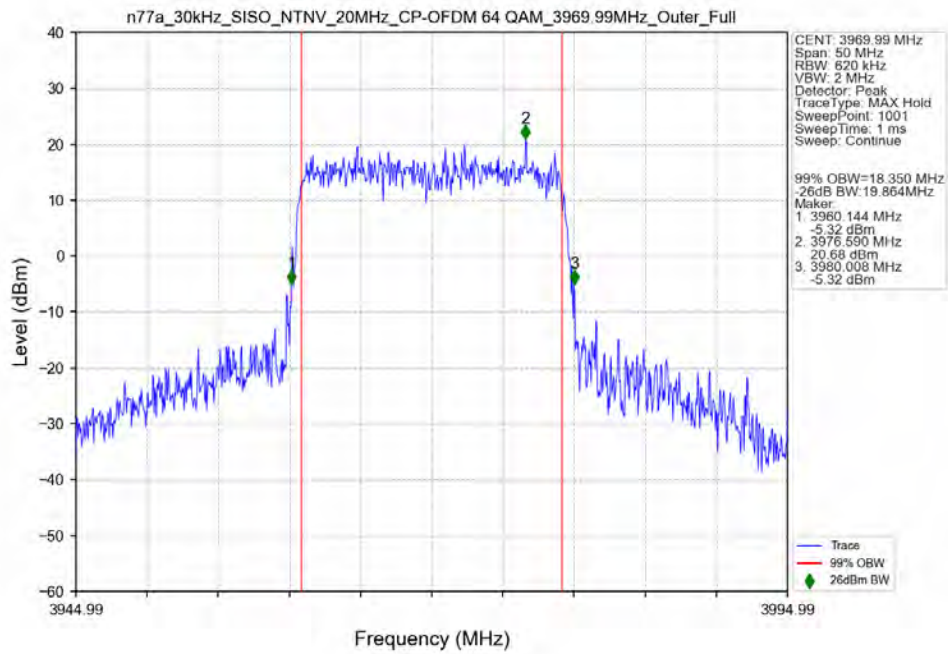
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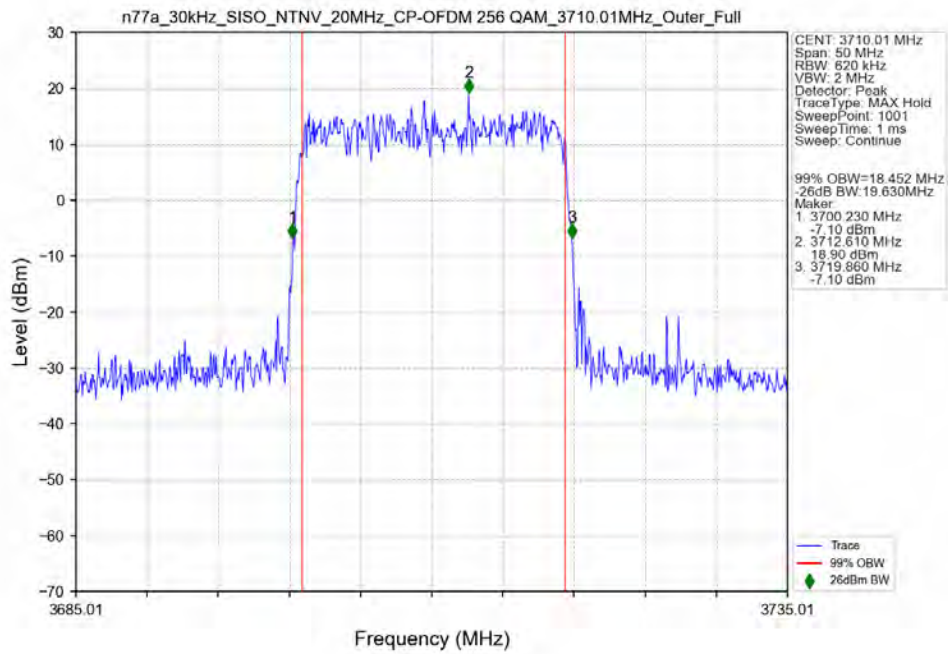
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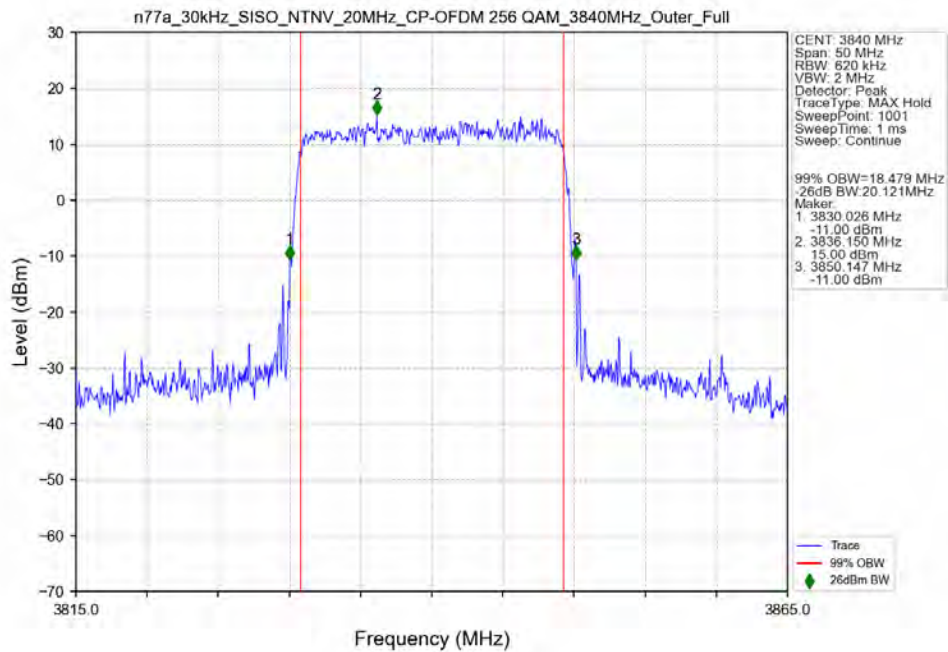
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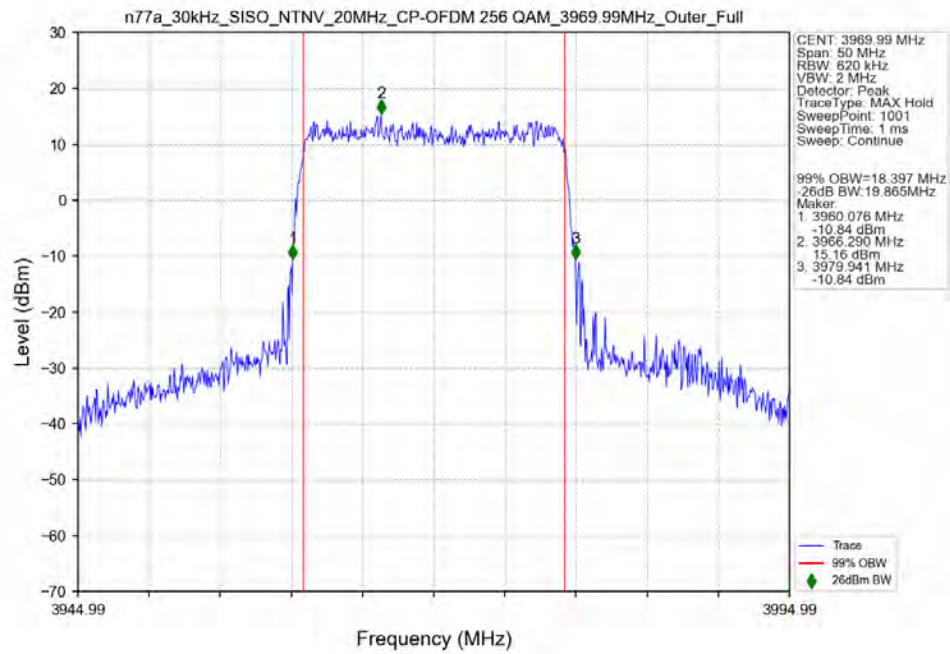
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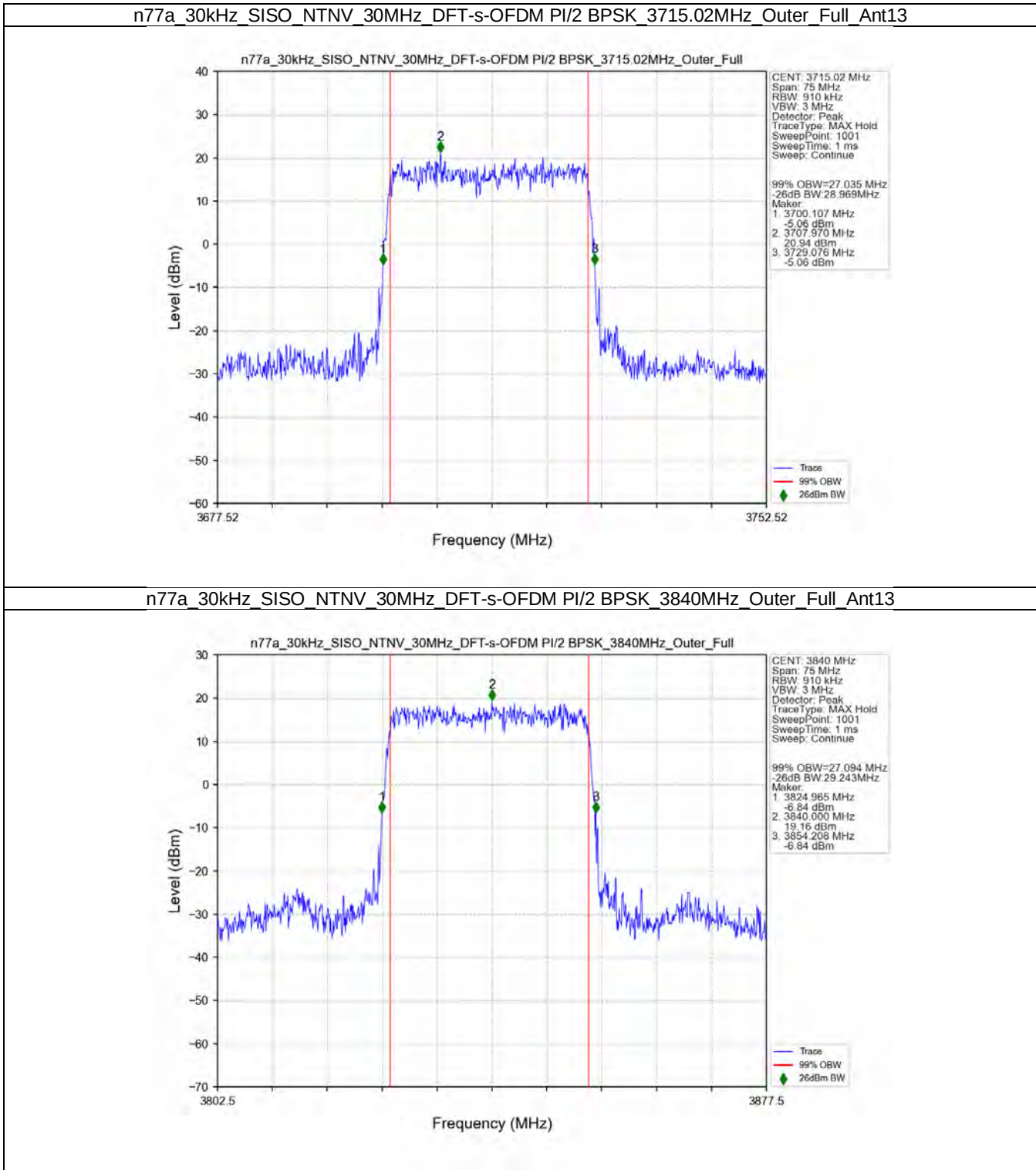
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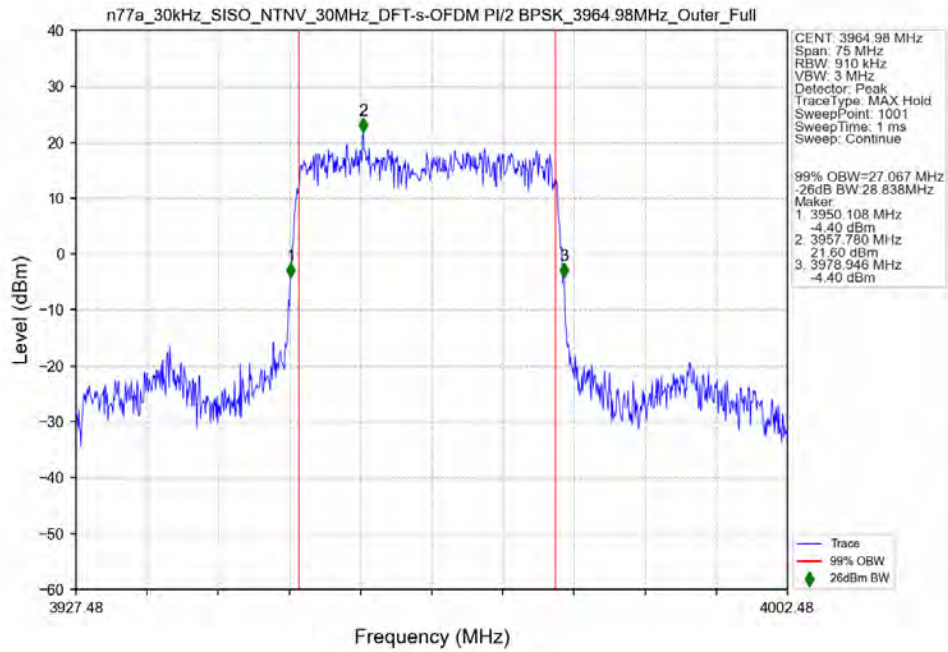
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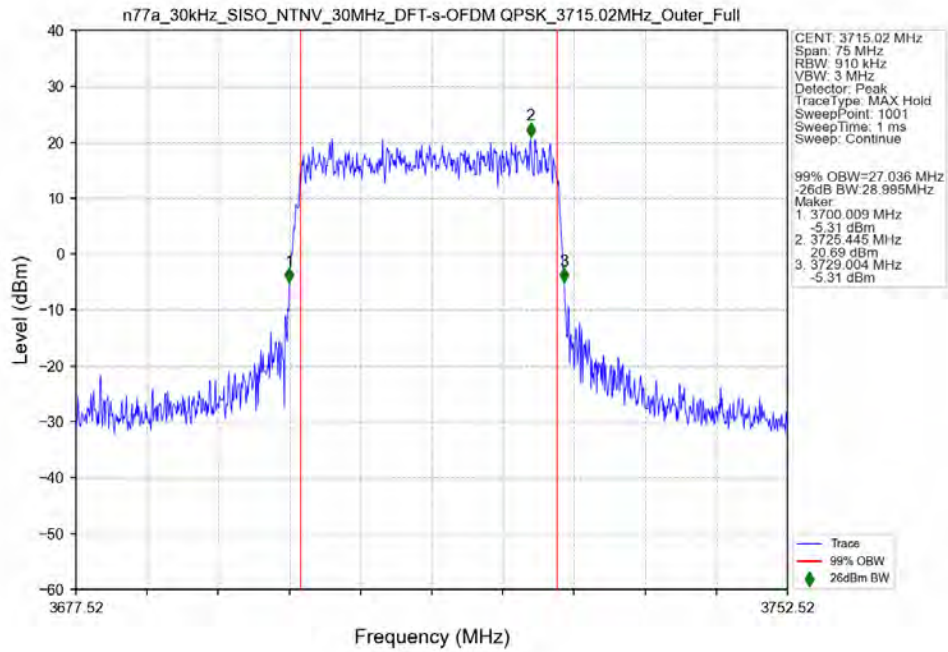
3.2.4 30k_SISO_30MHz_NTNV



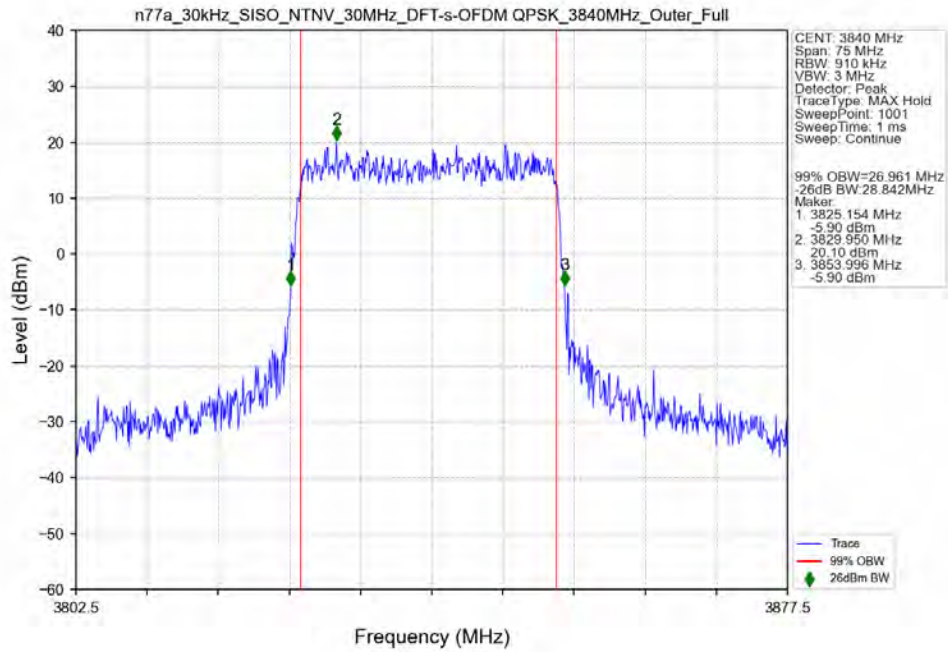
n77a 30kHz SISO NTN 30MHz DFT-s-OFDM PI/2 BPSK 3964.98MHz Outer Full Ant13



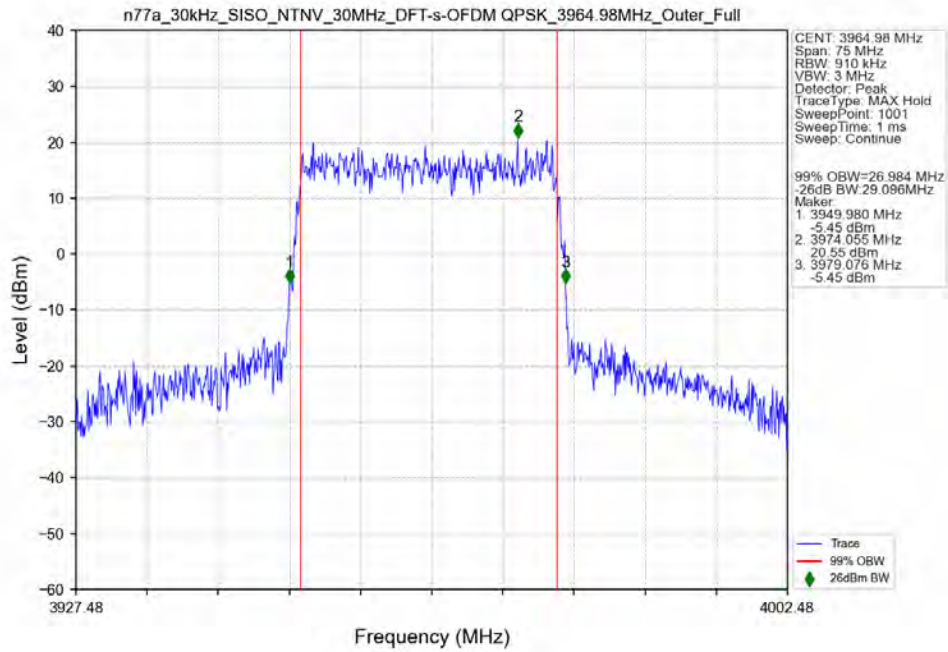
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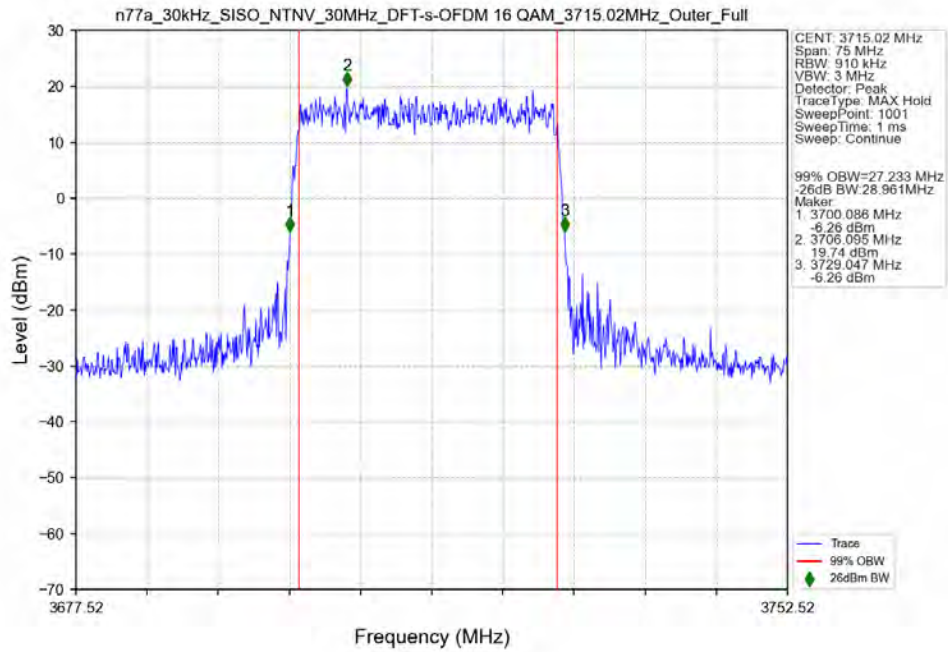
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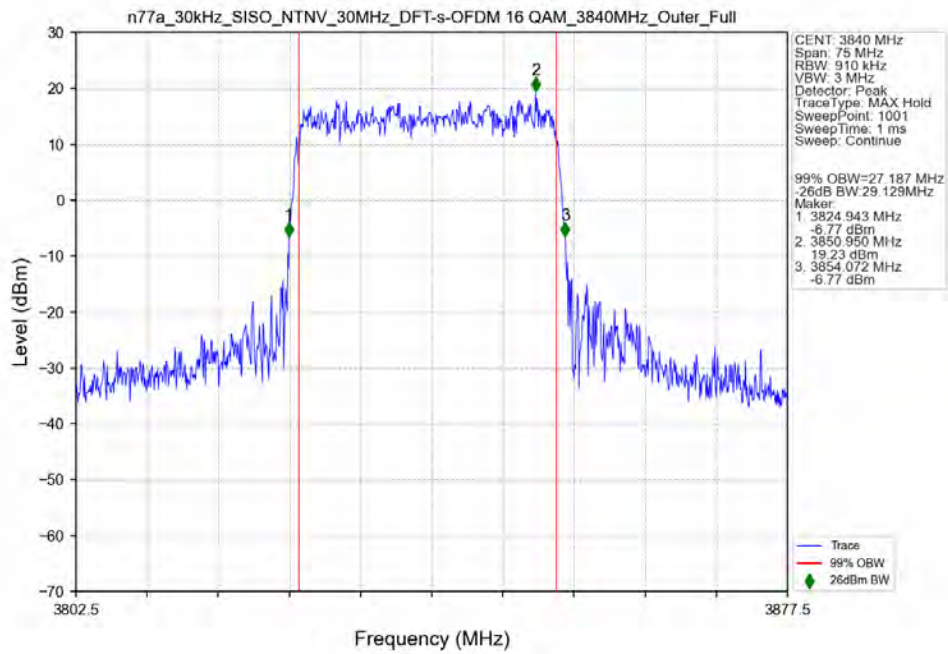
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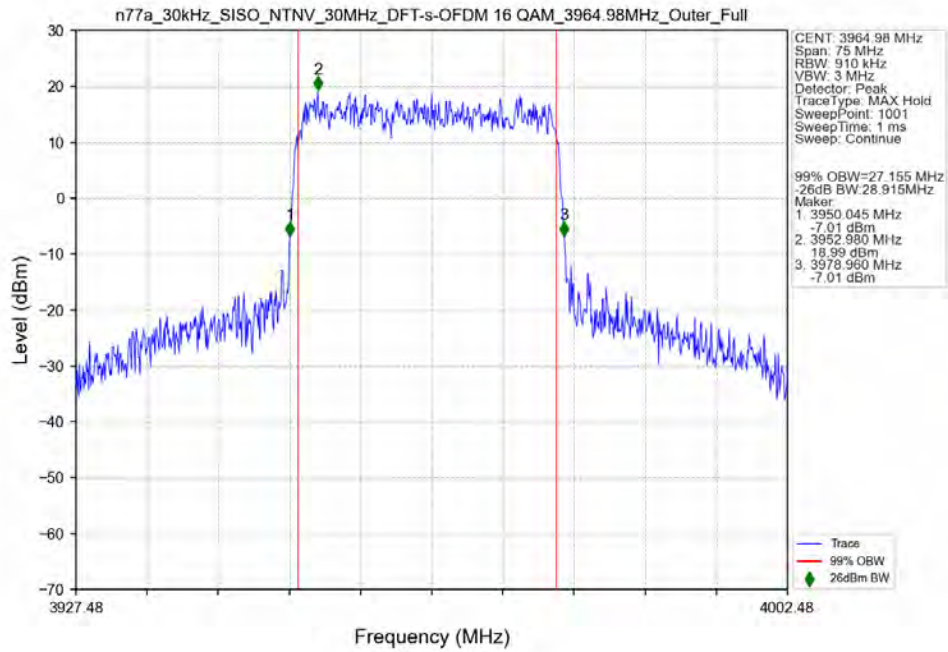
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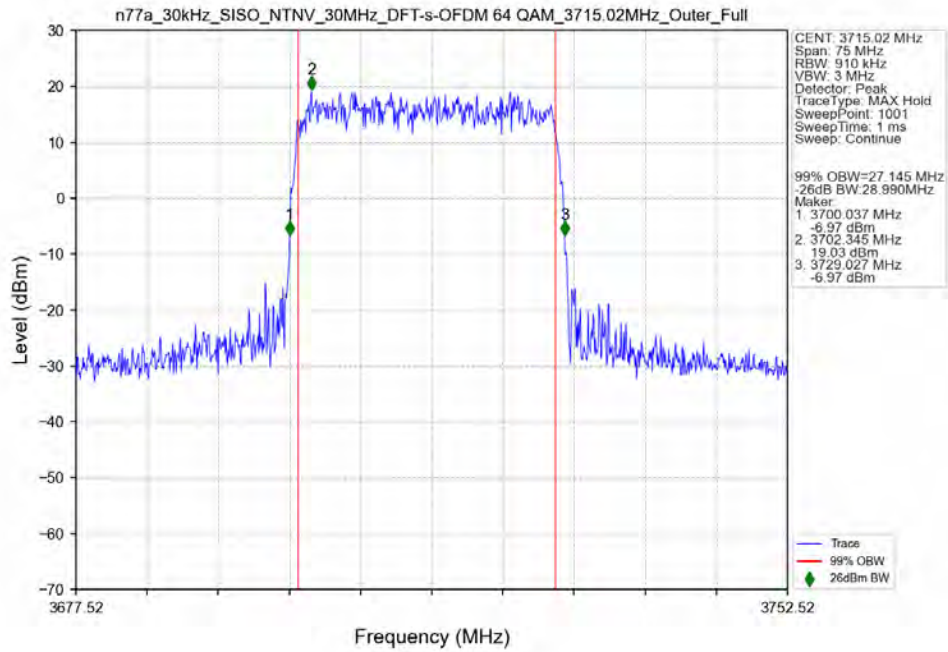
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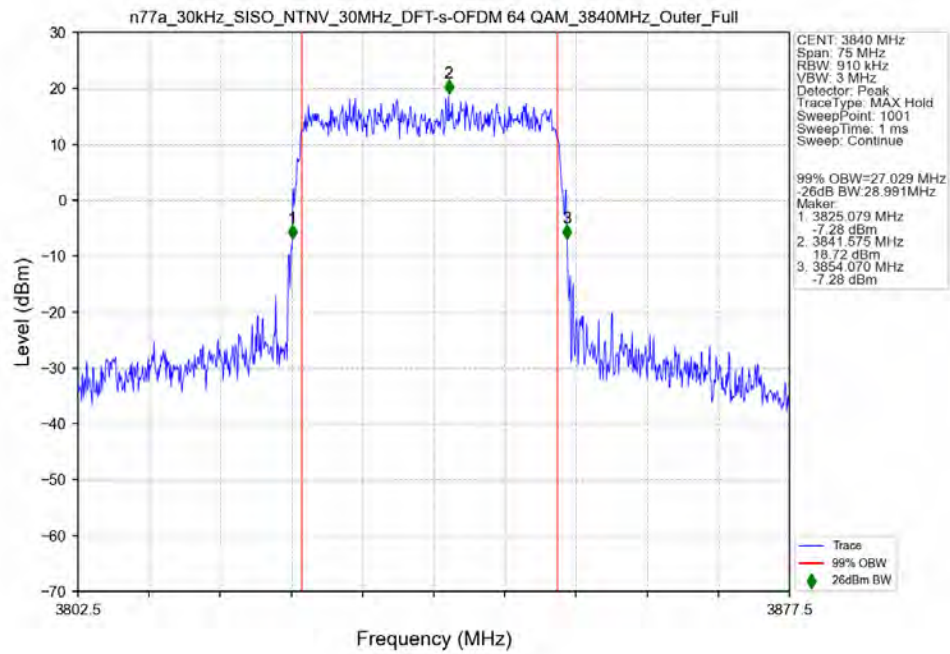
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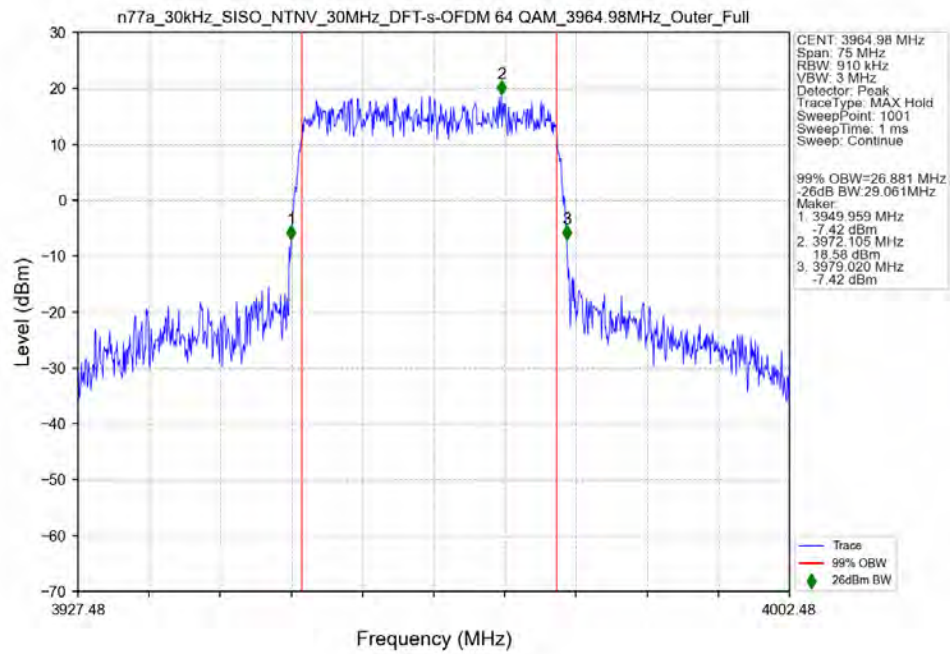
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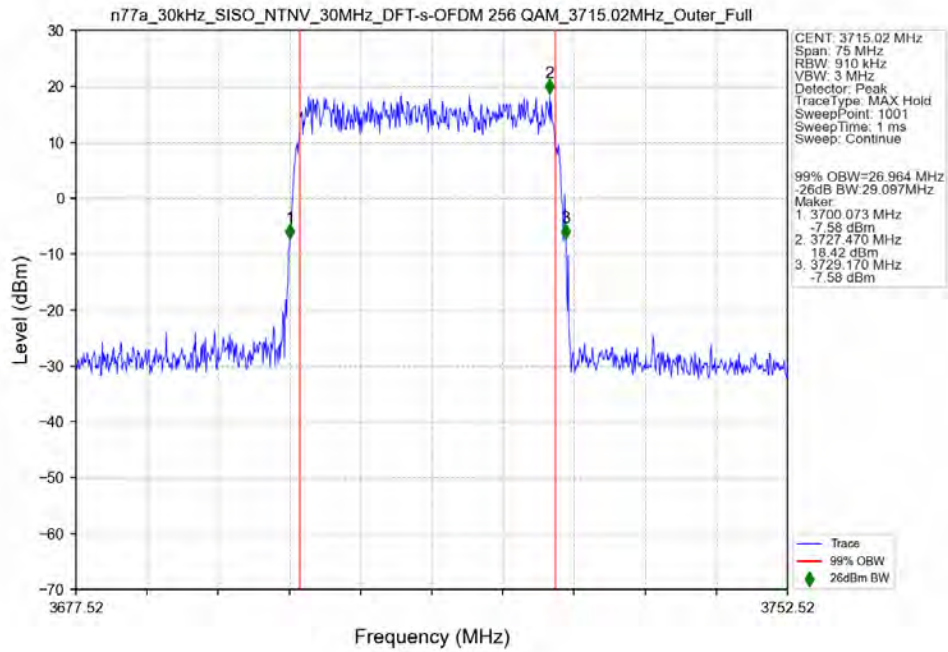
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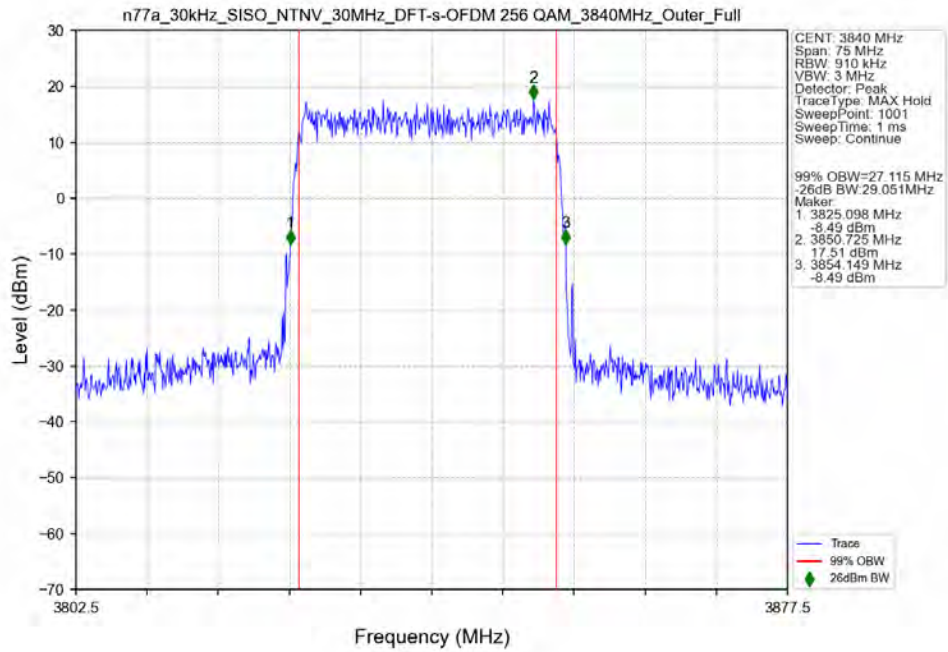
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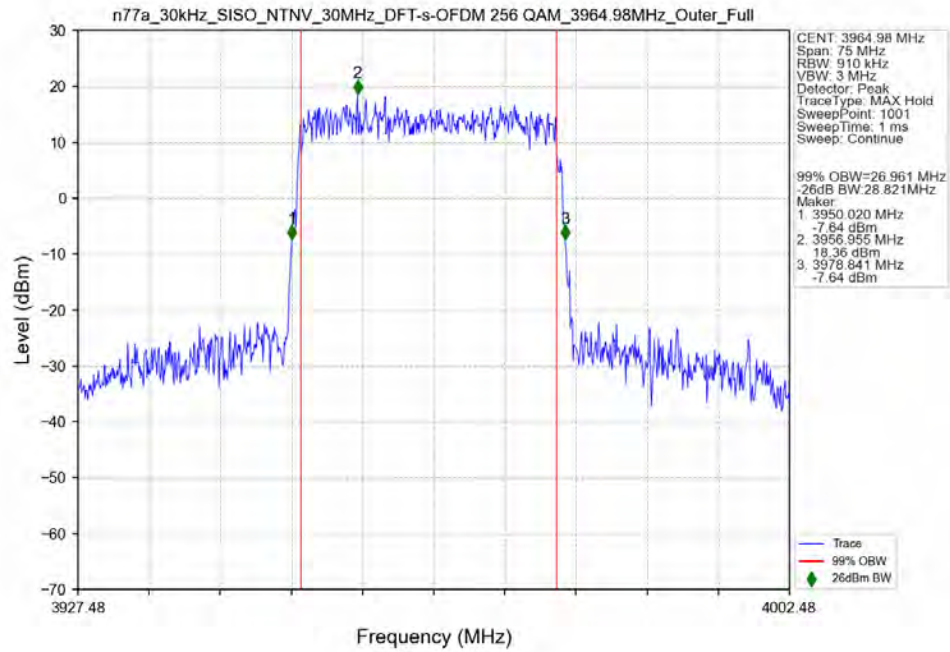
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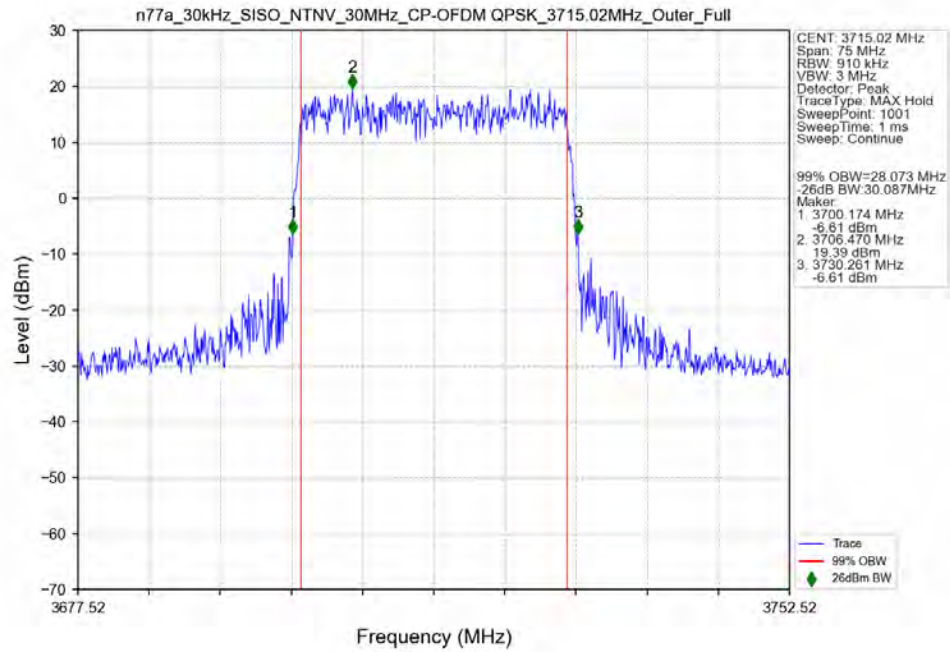
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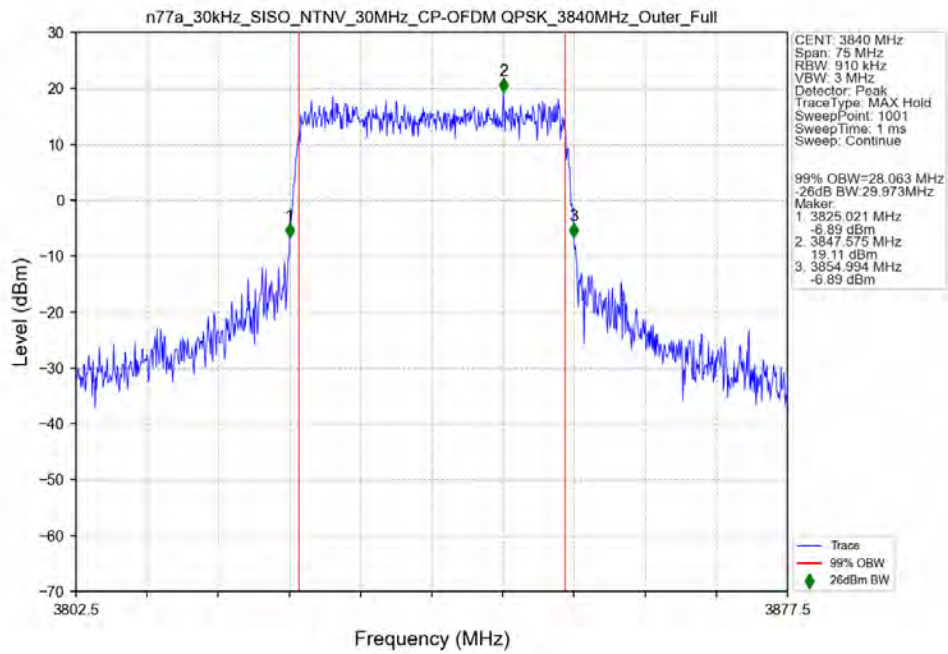
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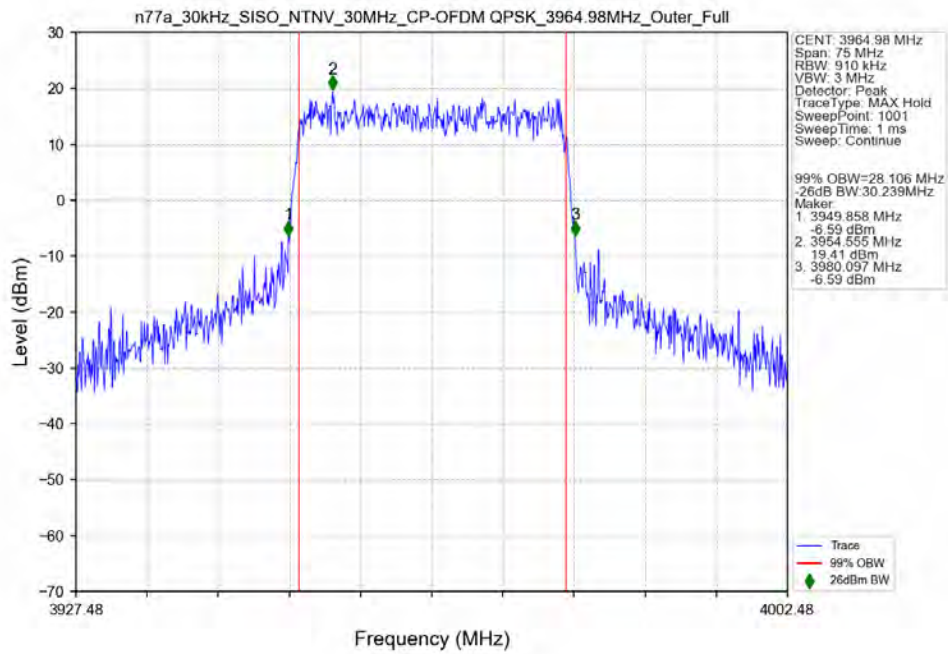
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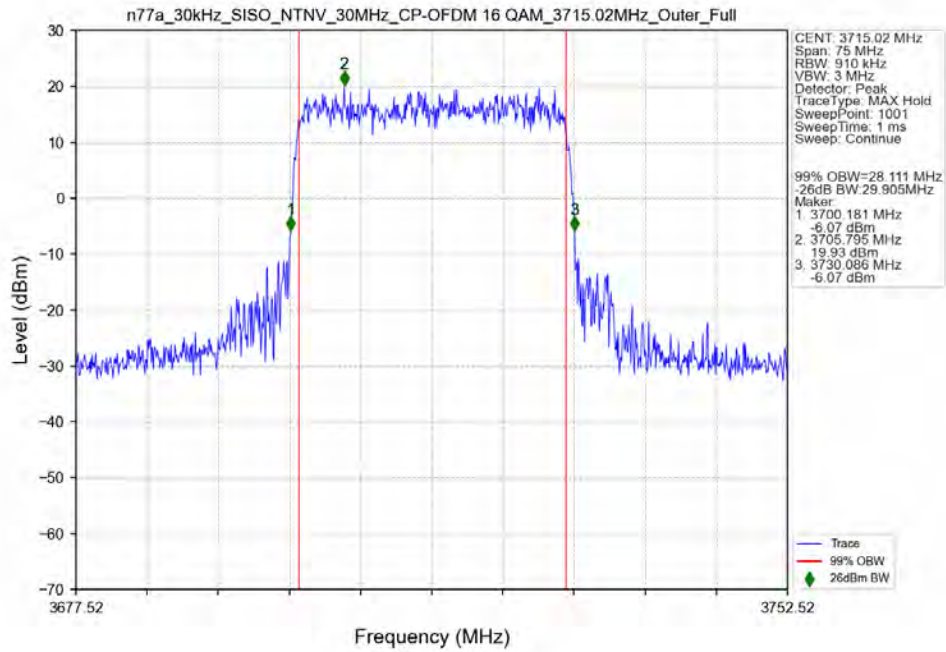
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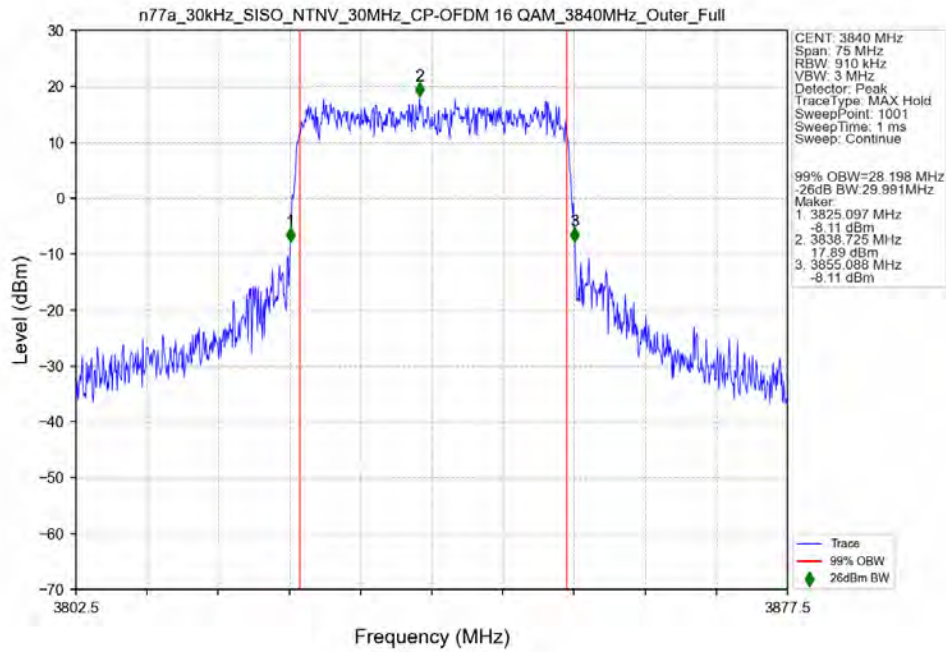
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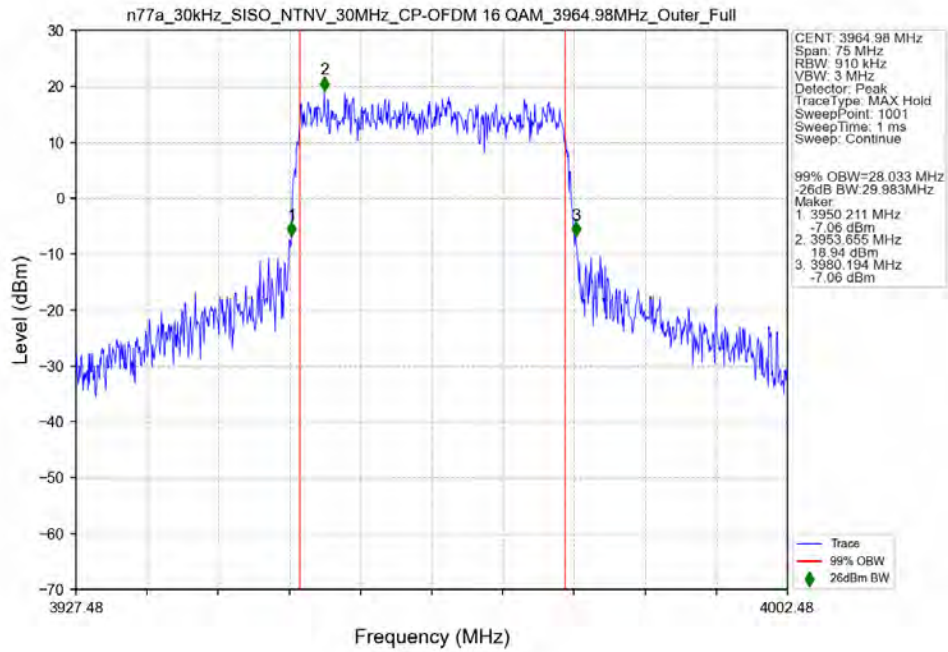
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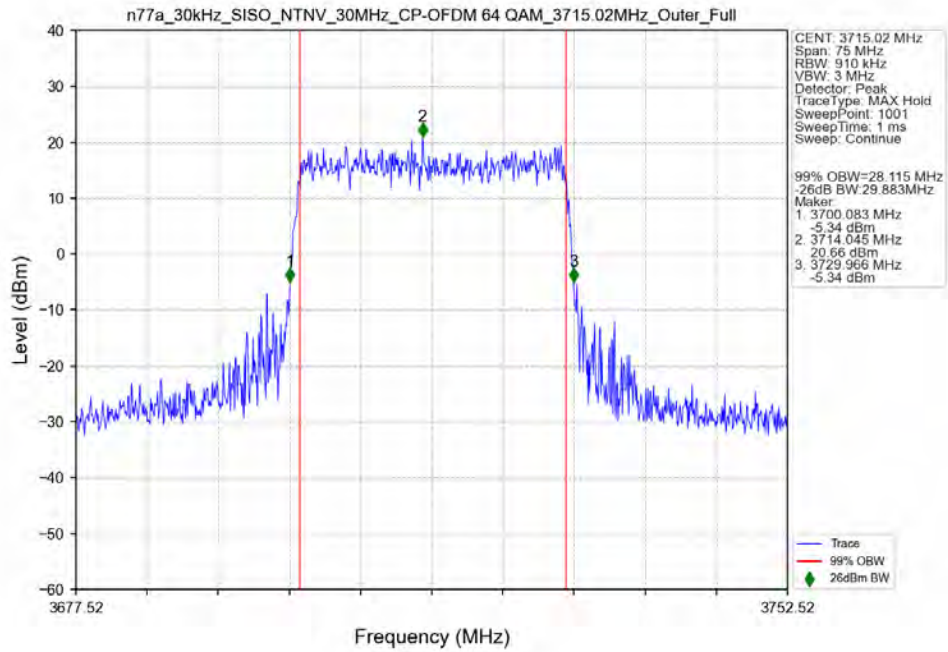
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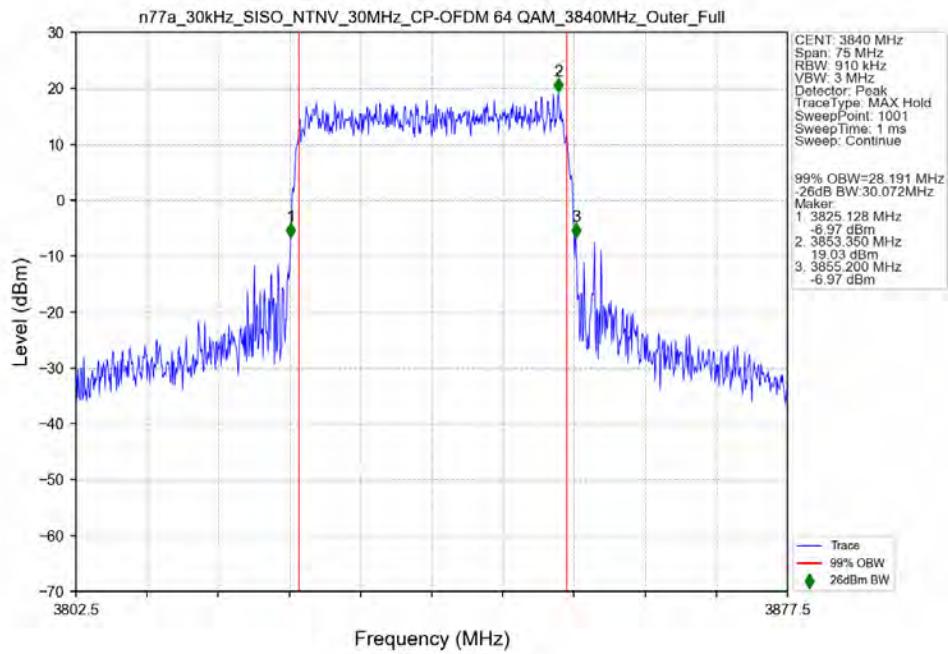
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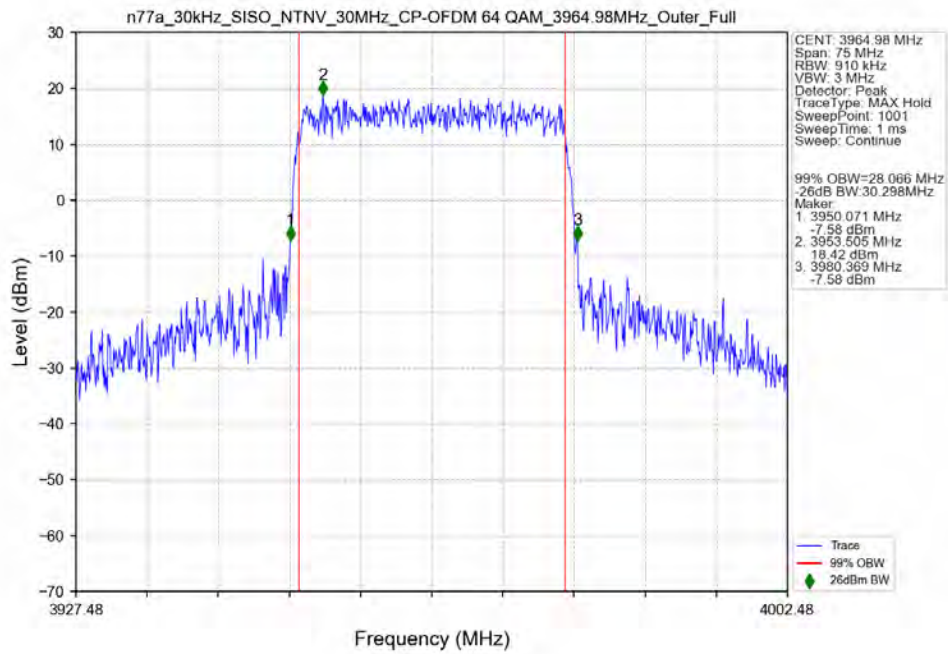
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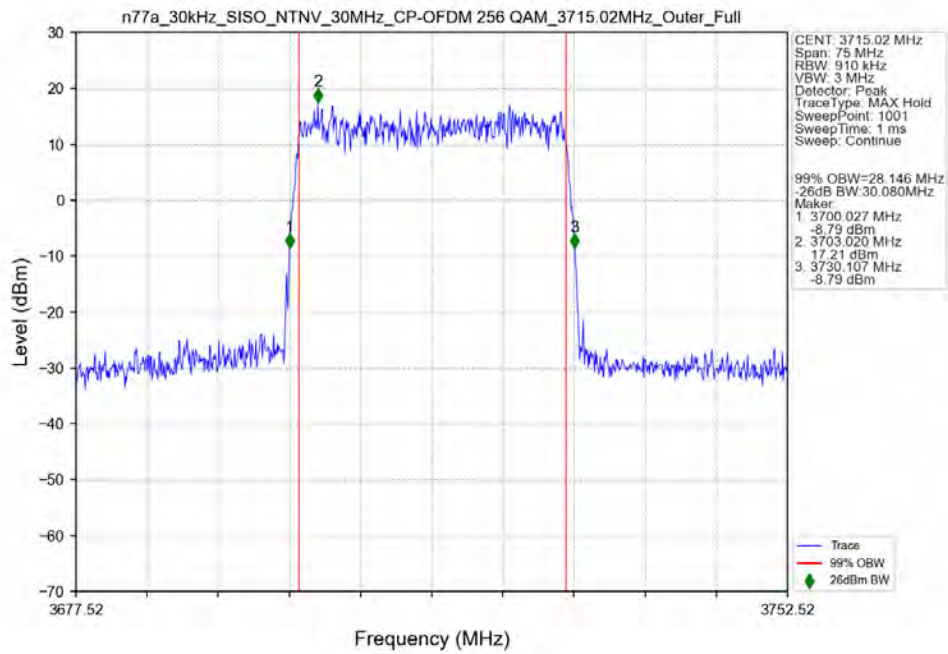
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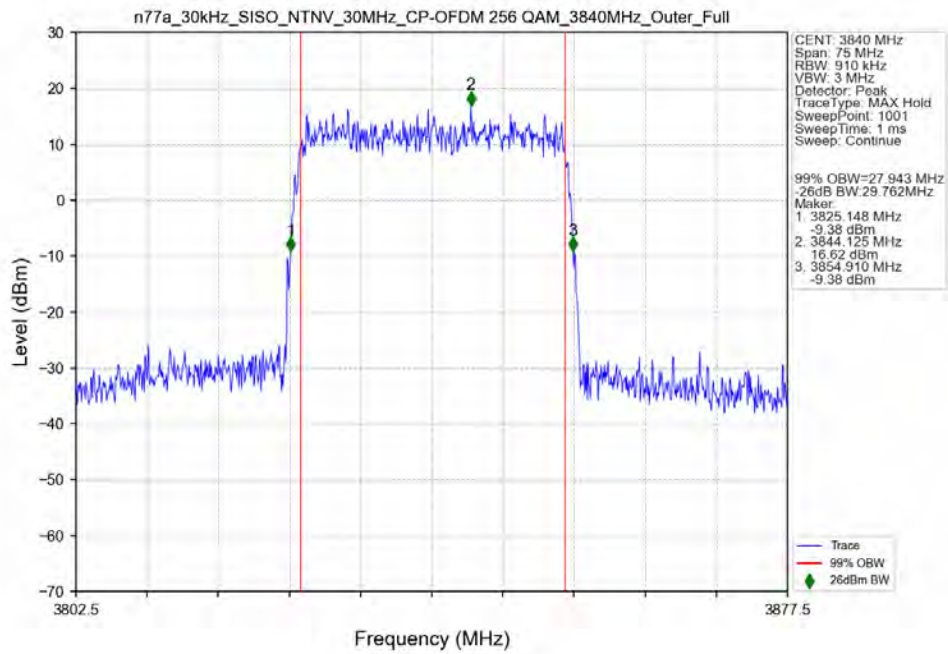
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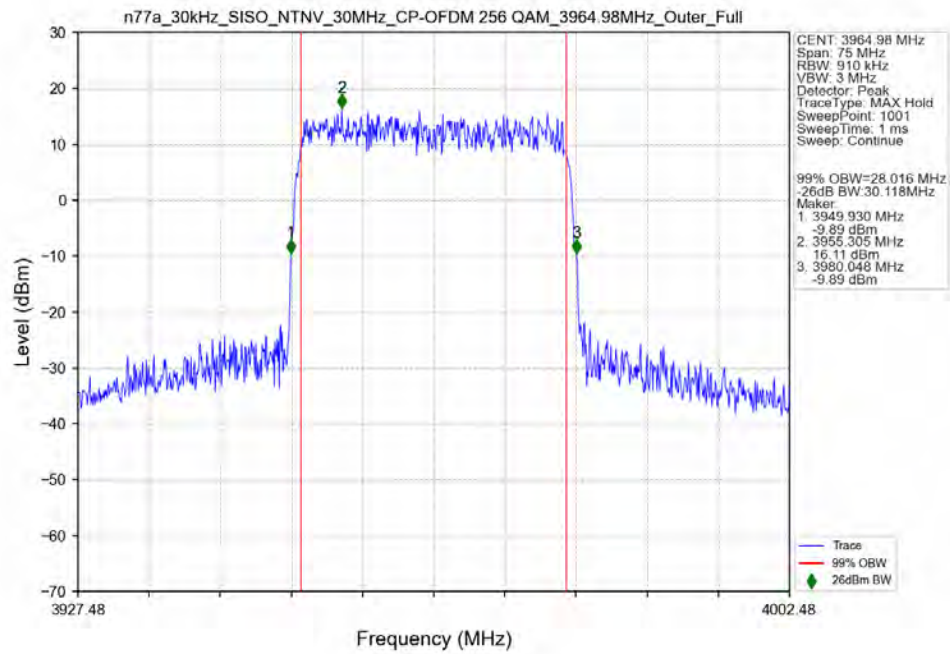
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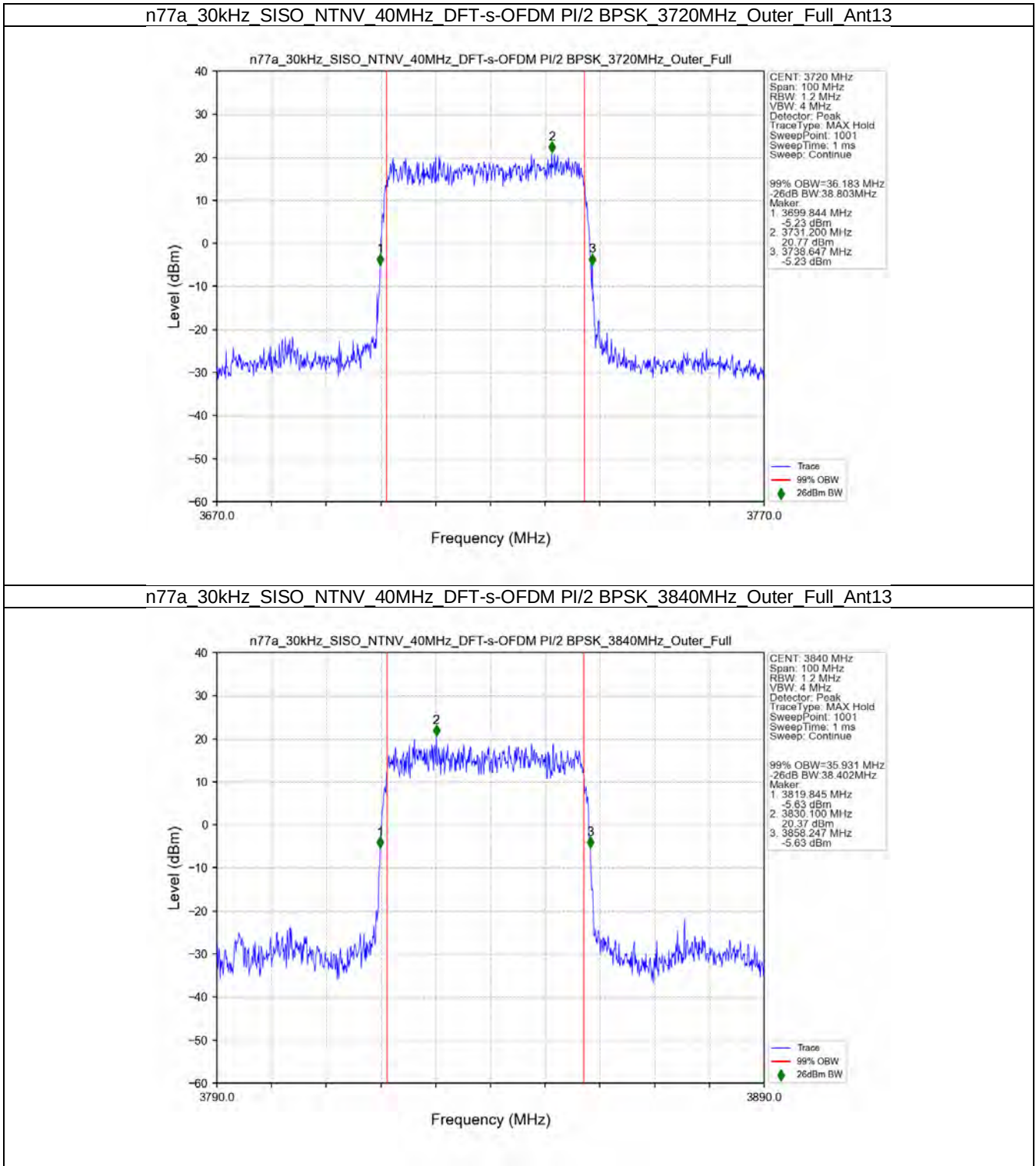
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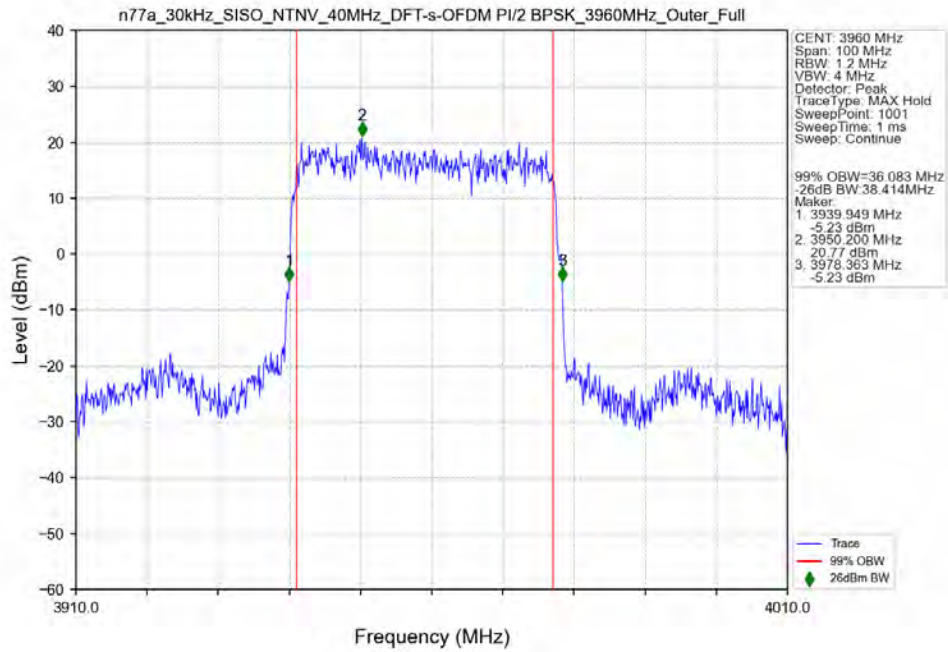
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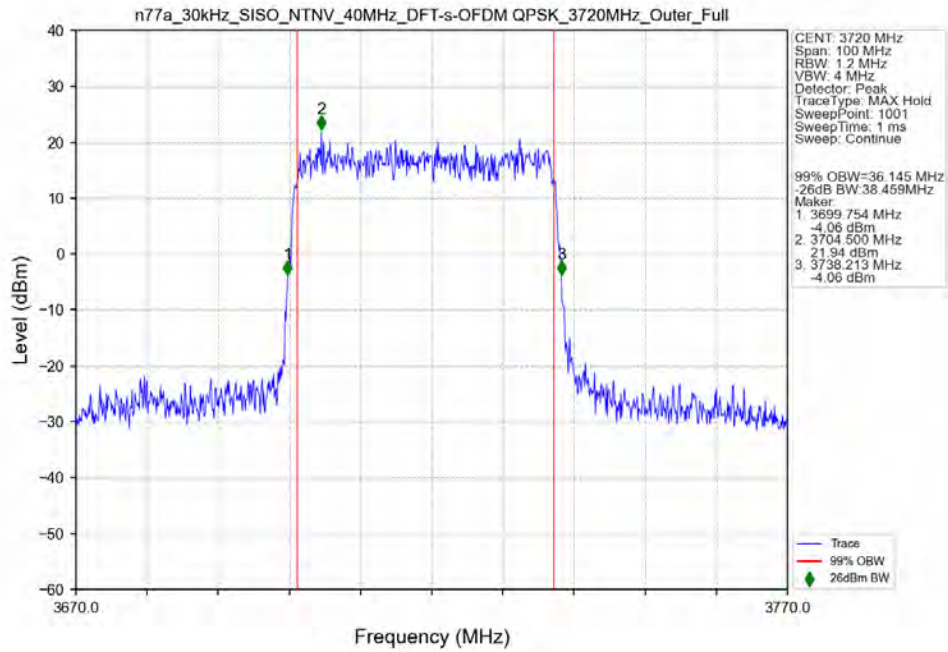
3.2.5 30k_SISO_40MHz_NTNV



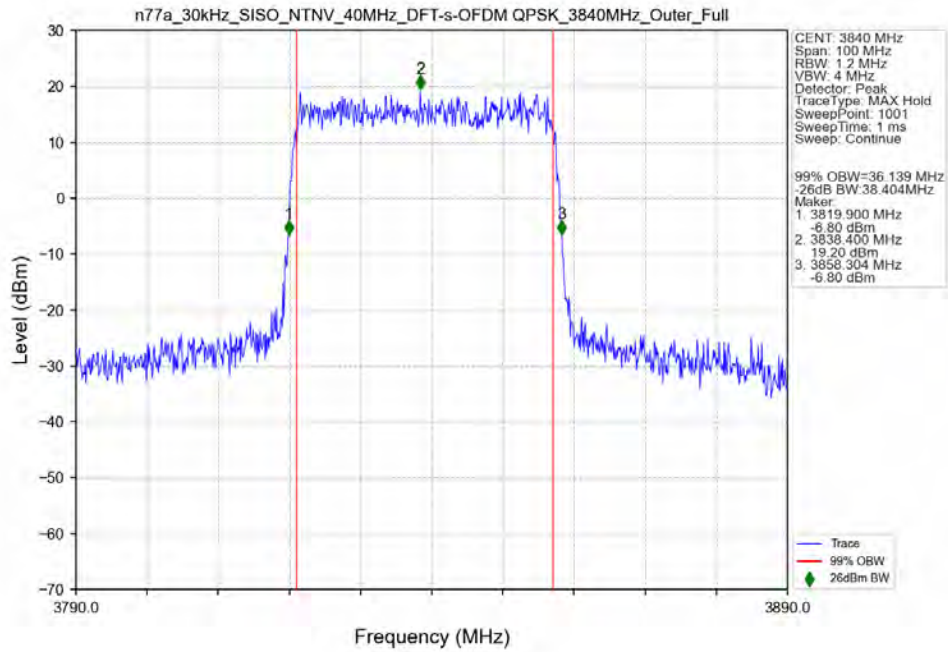
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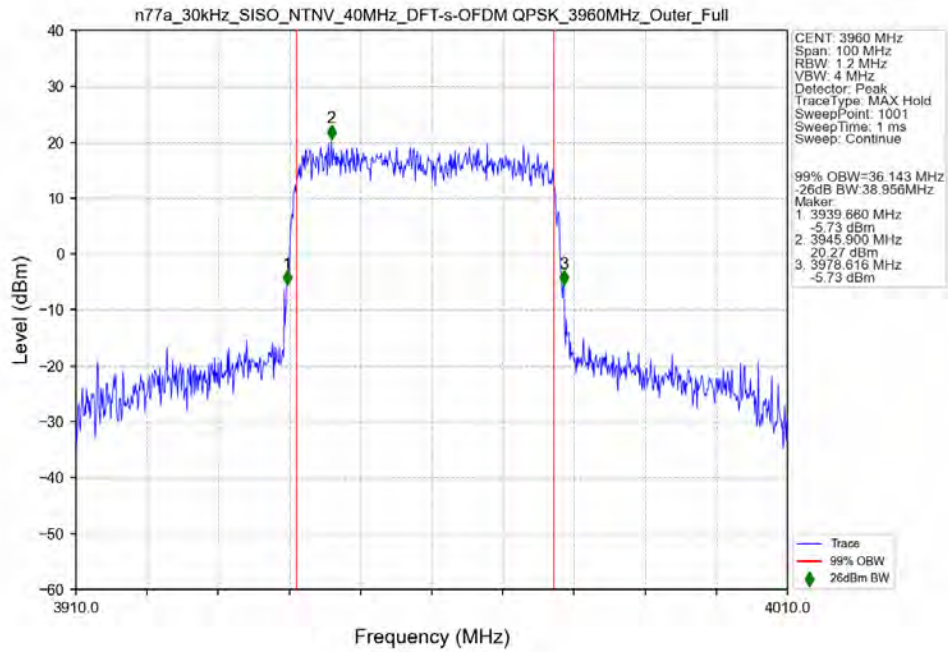
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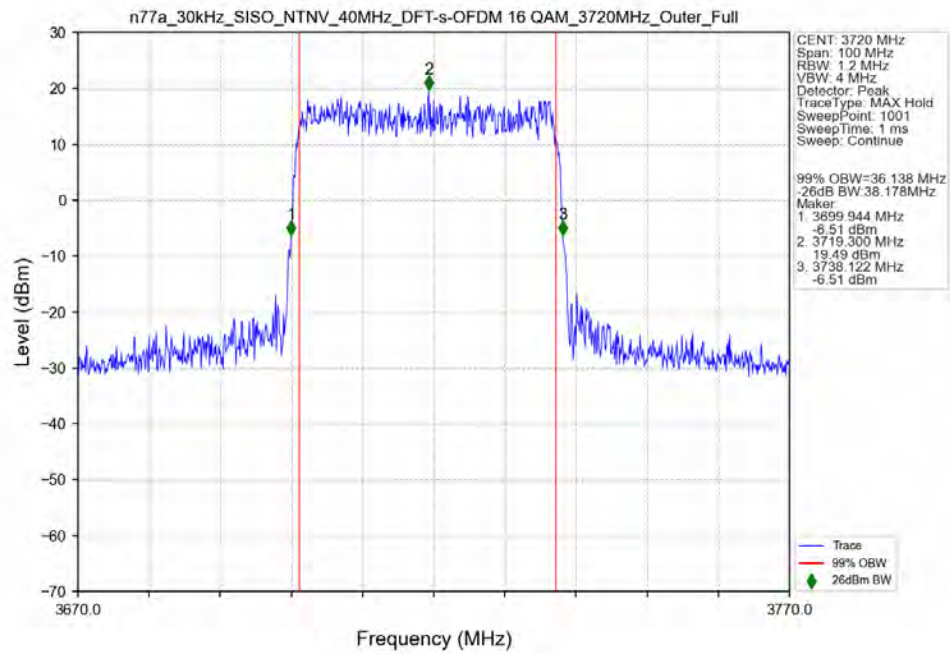
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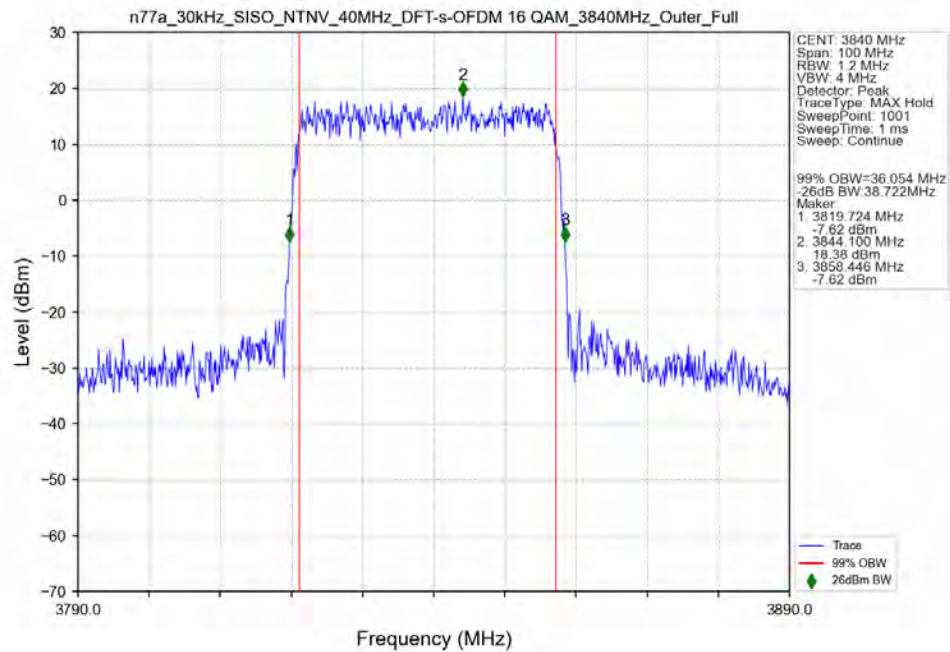
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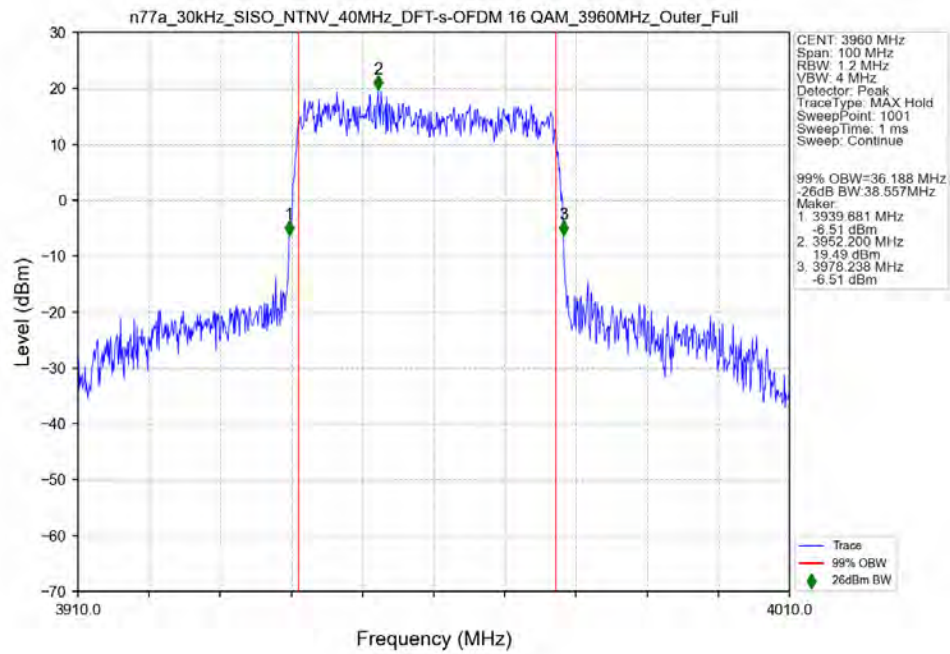
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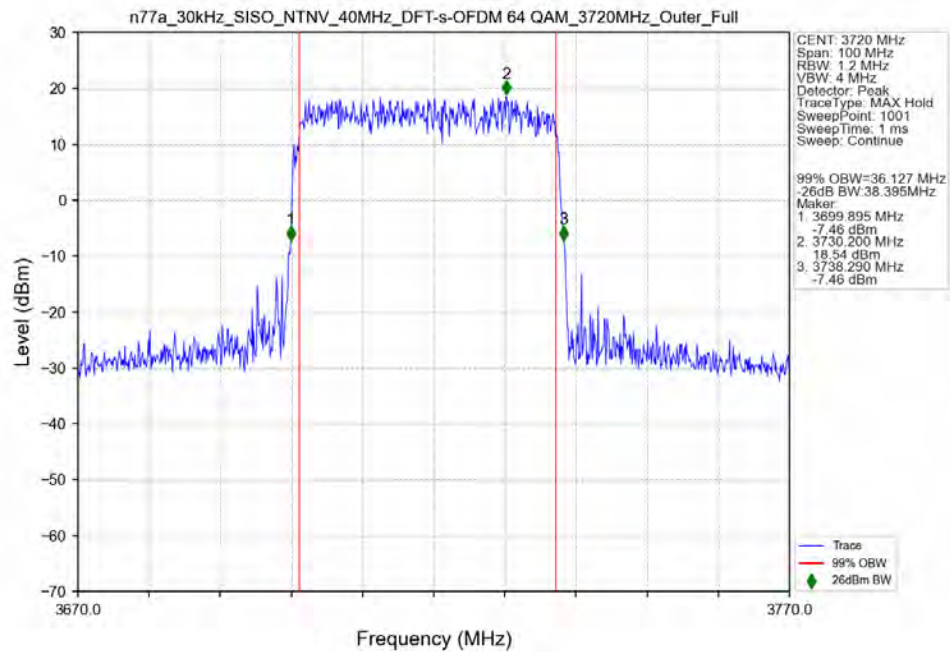
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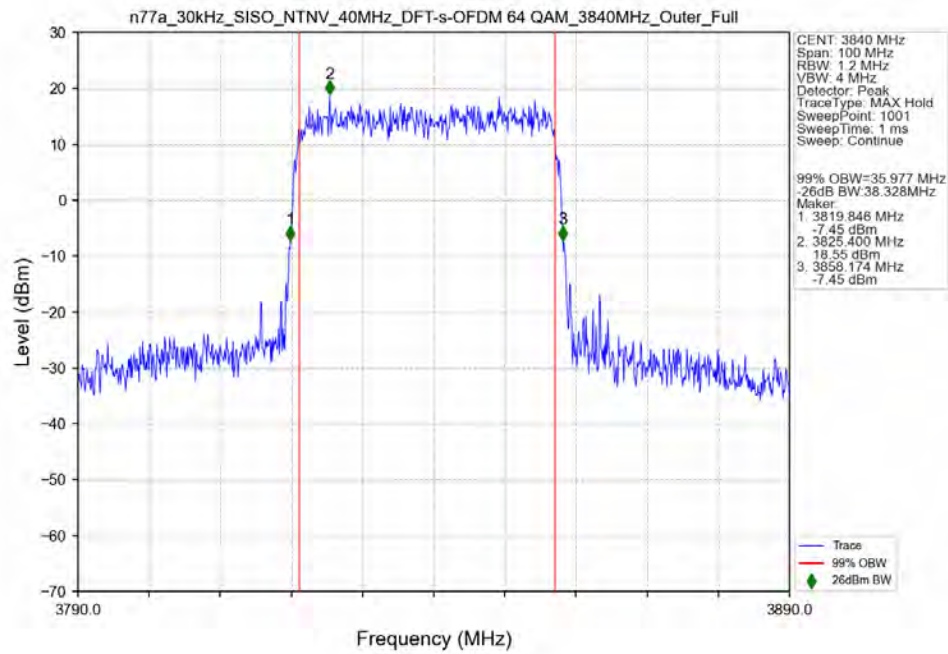
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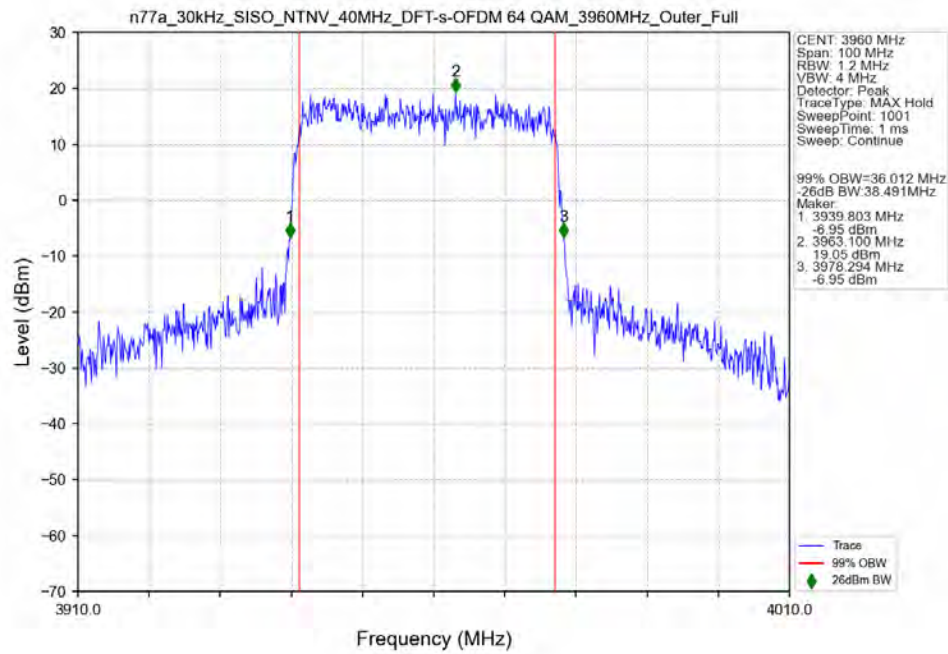
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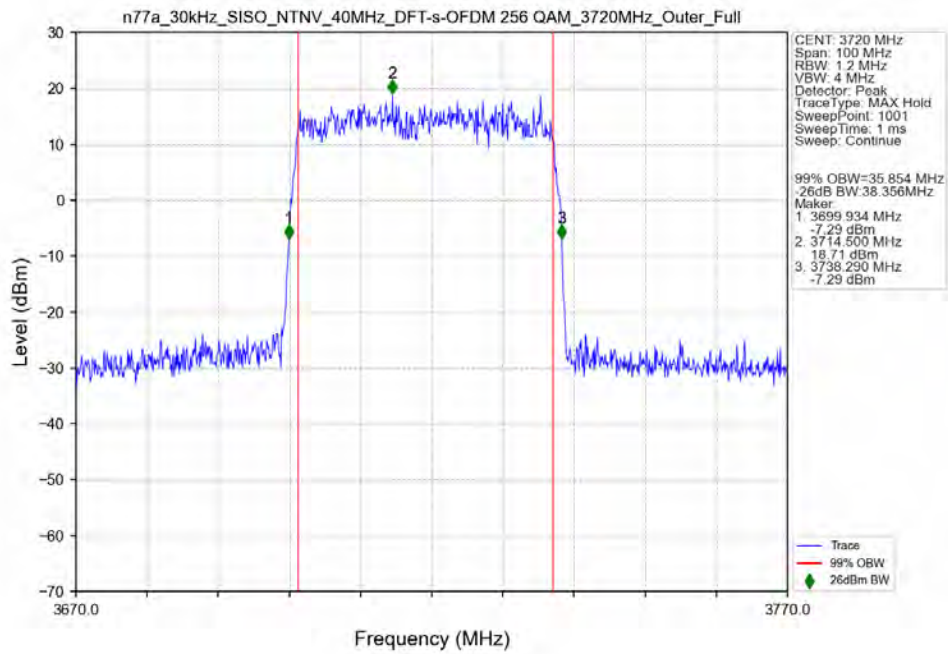
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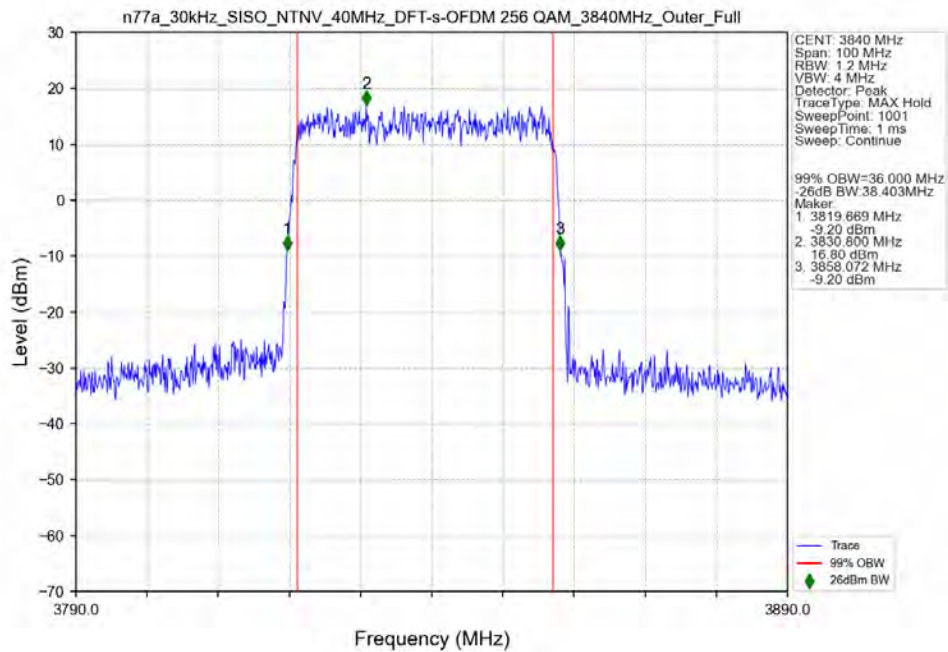
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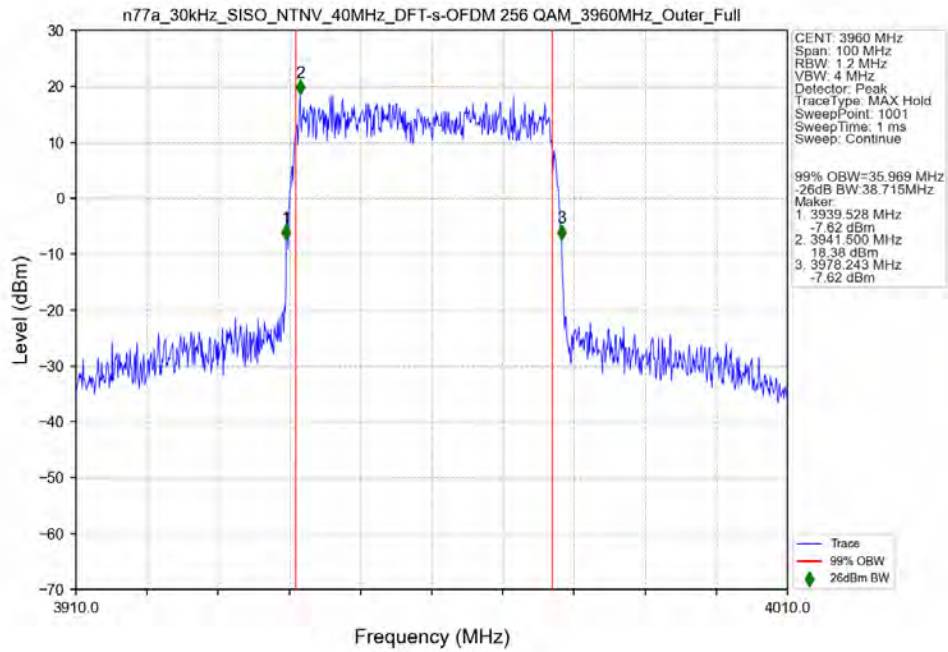
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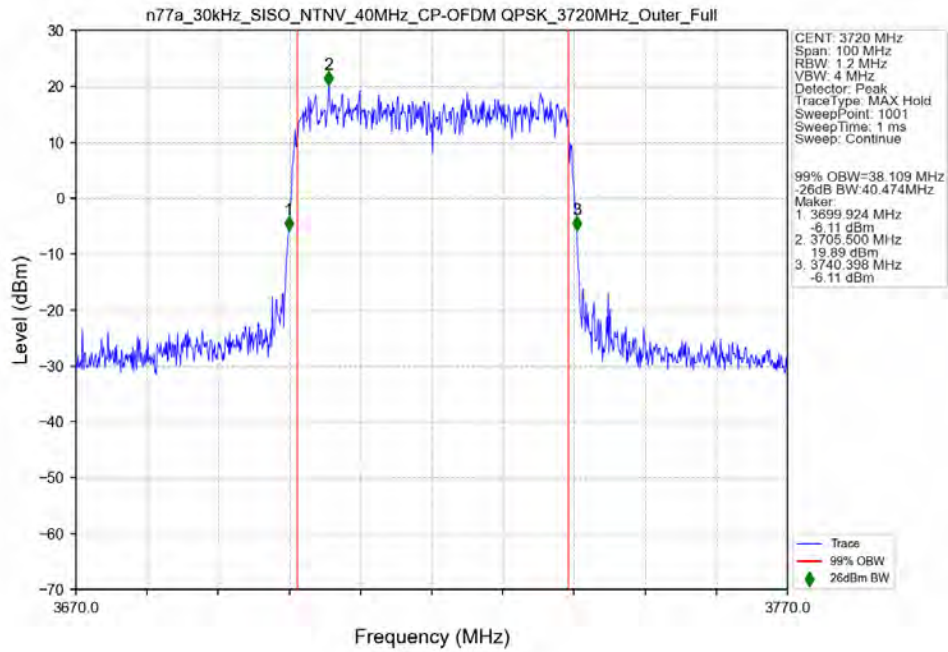
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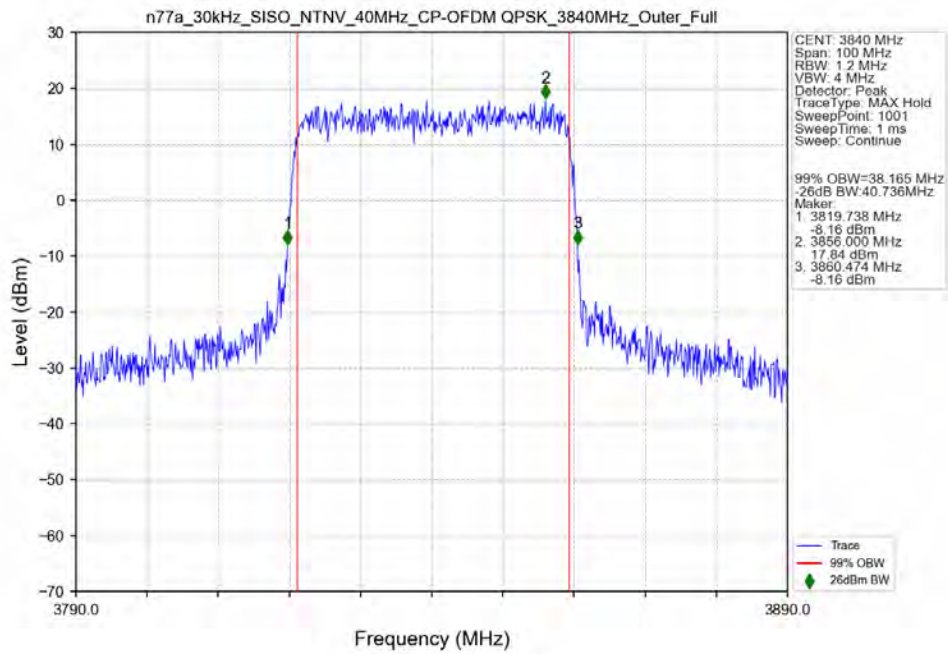
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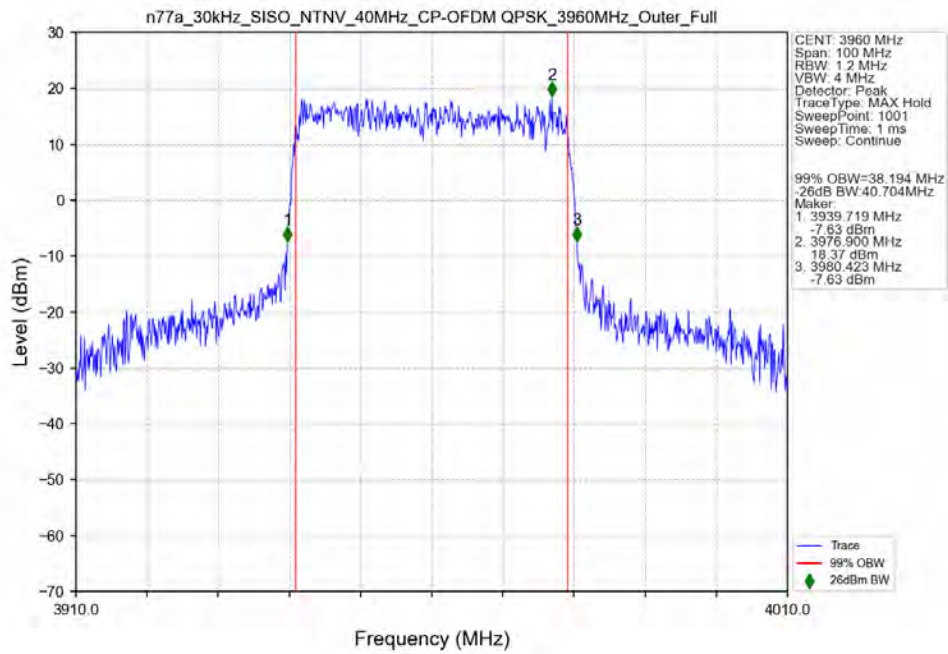
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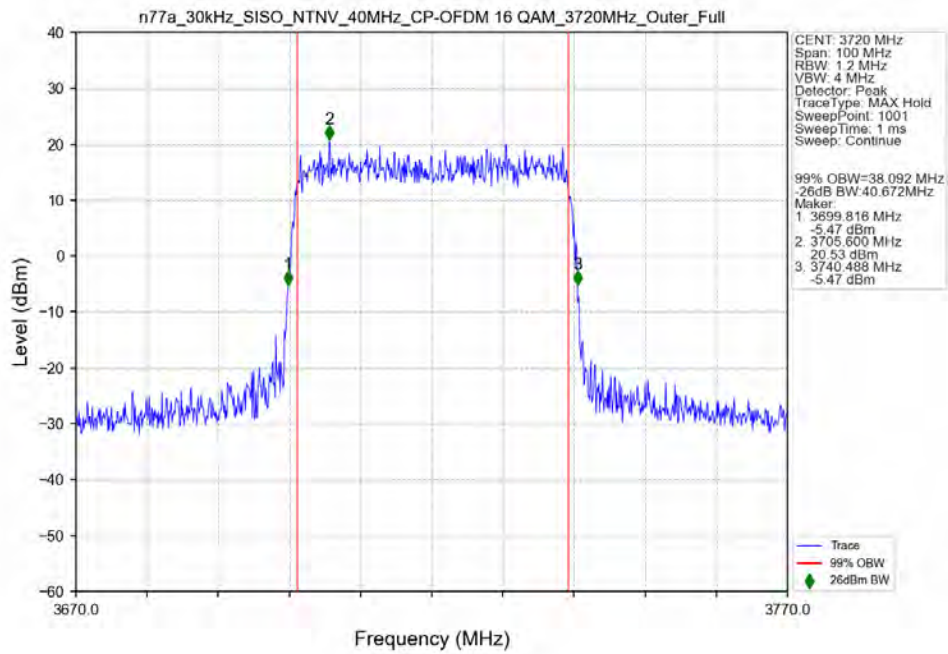
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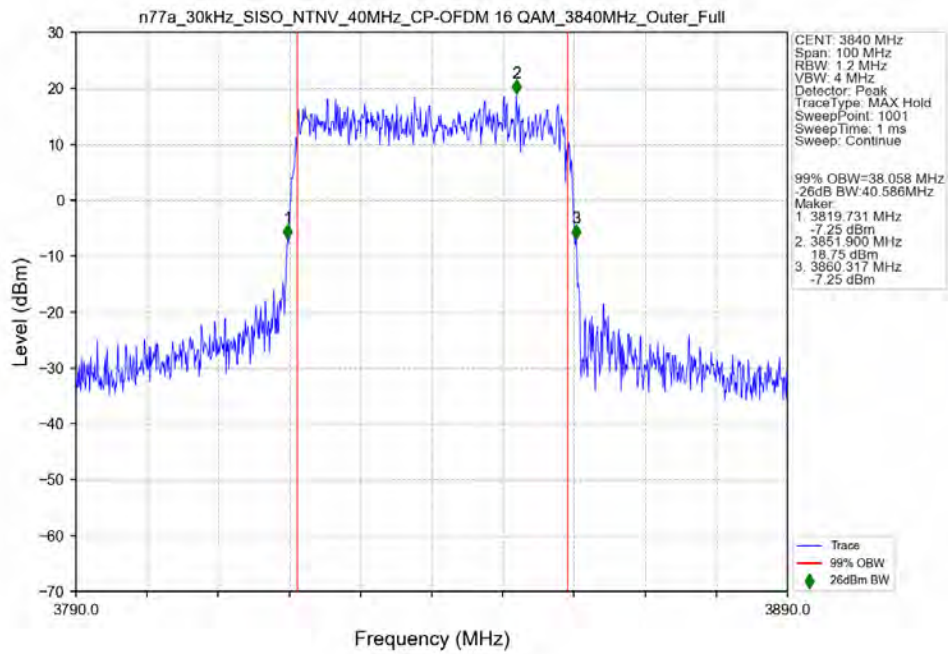
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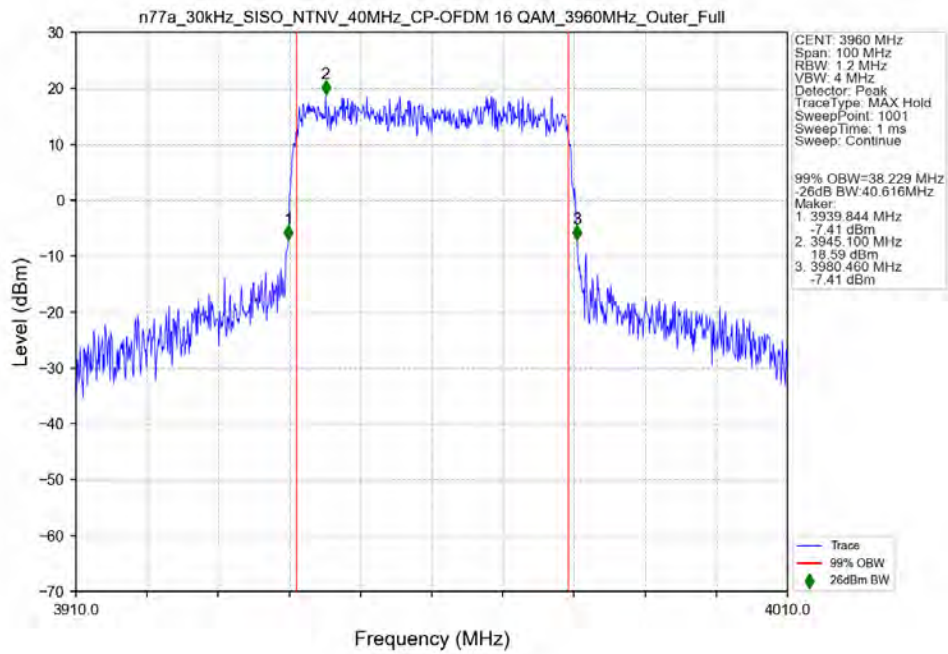
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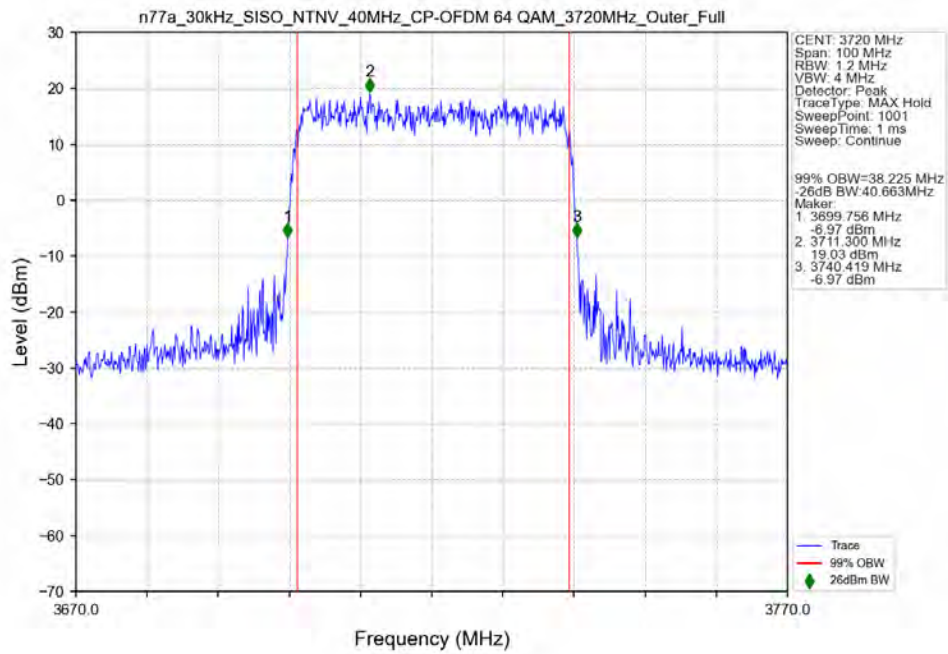
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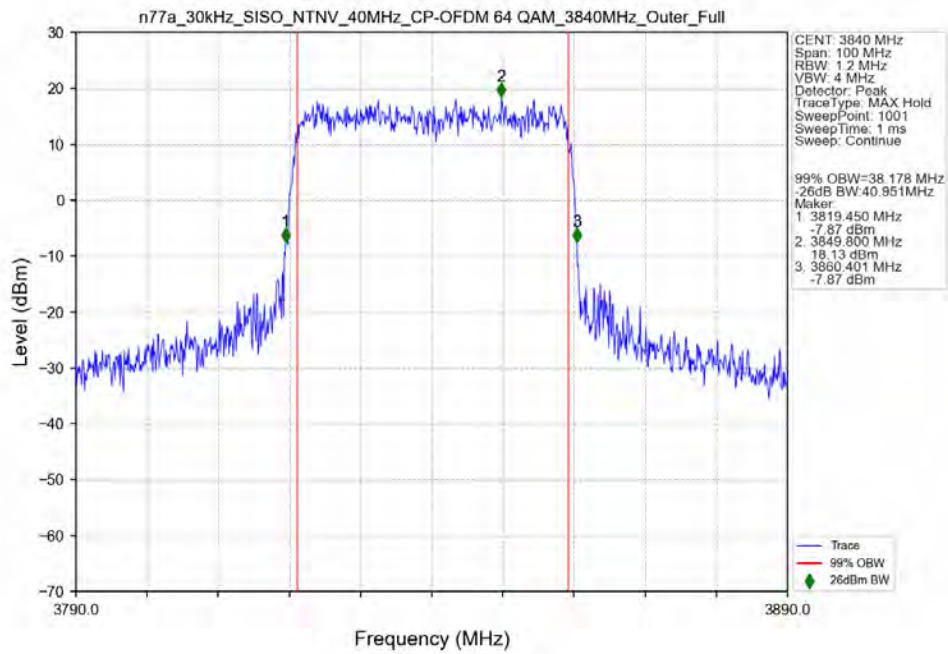
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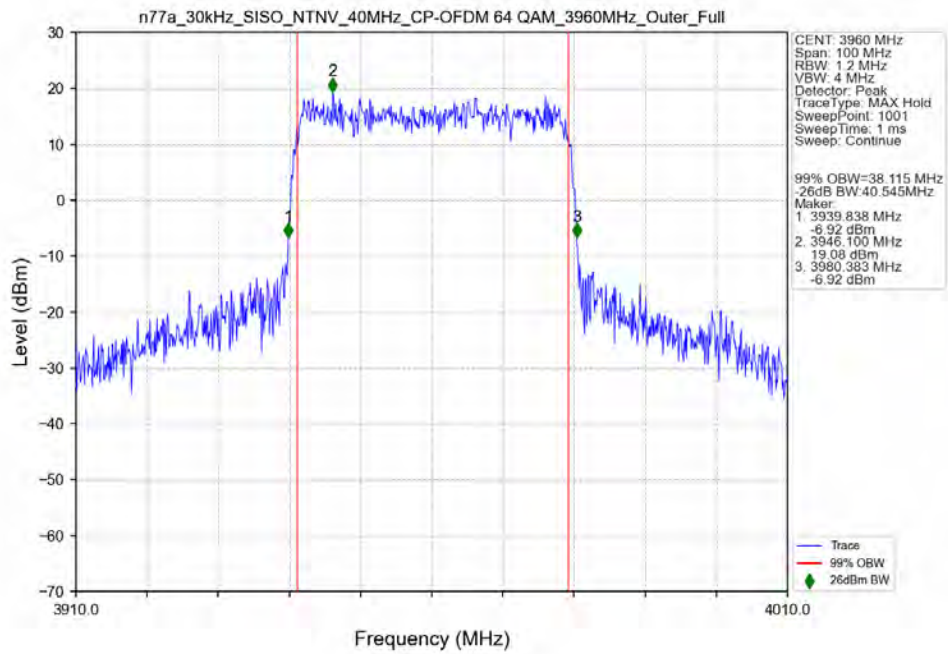
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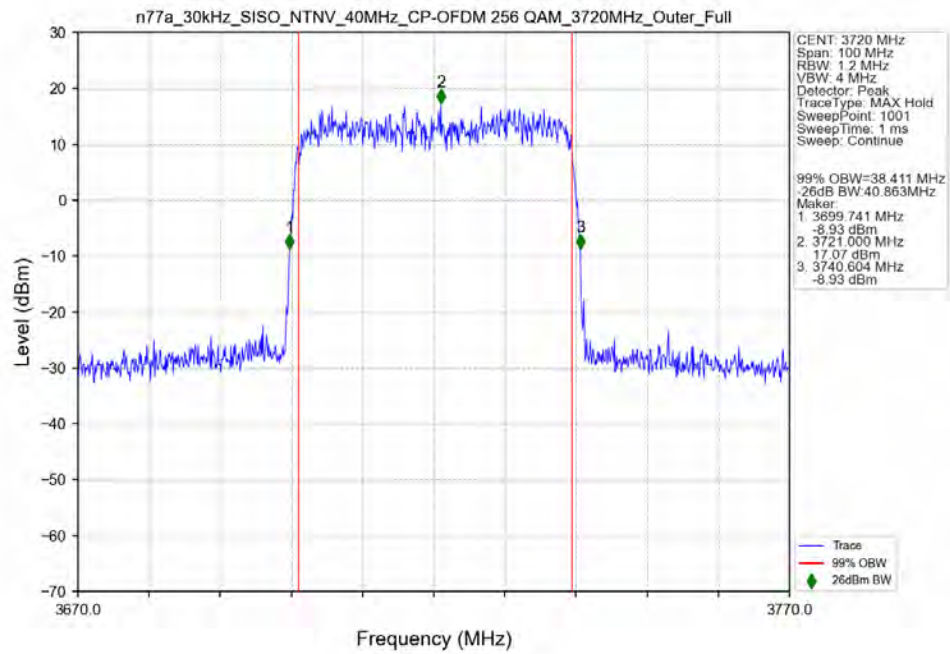
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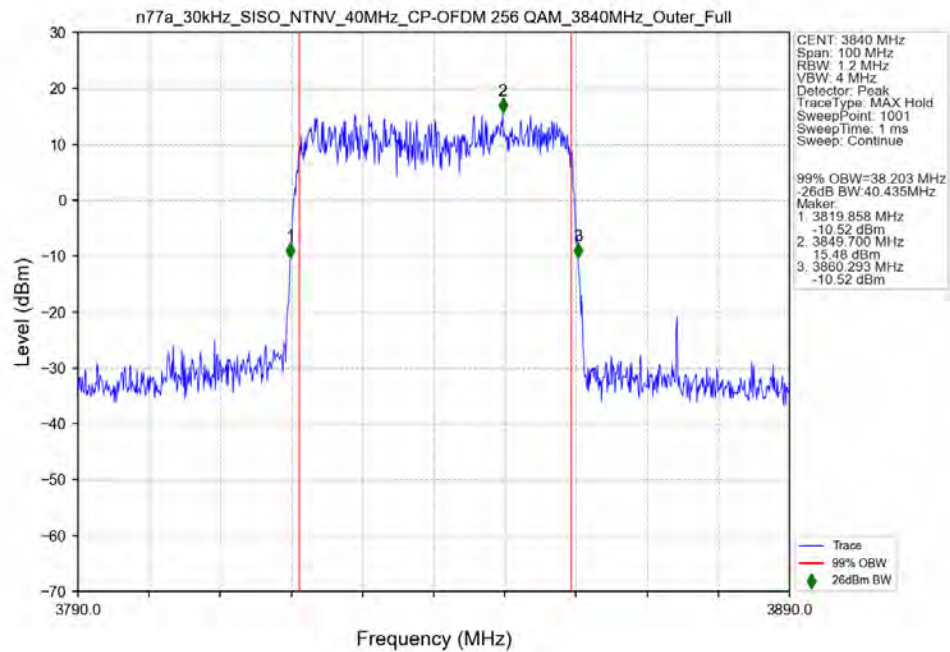
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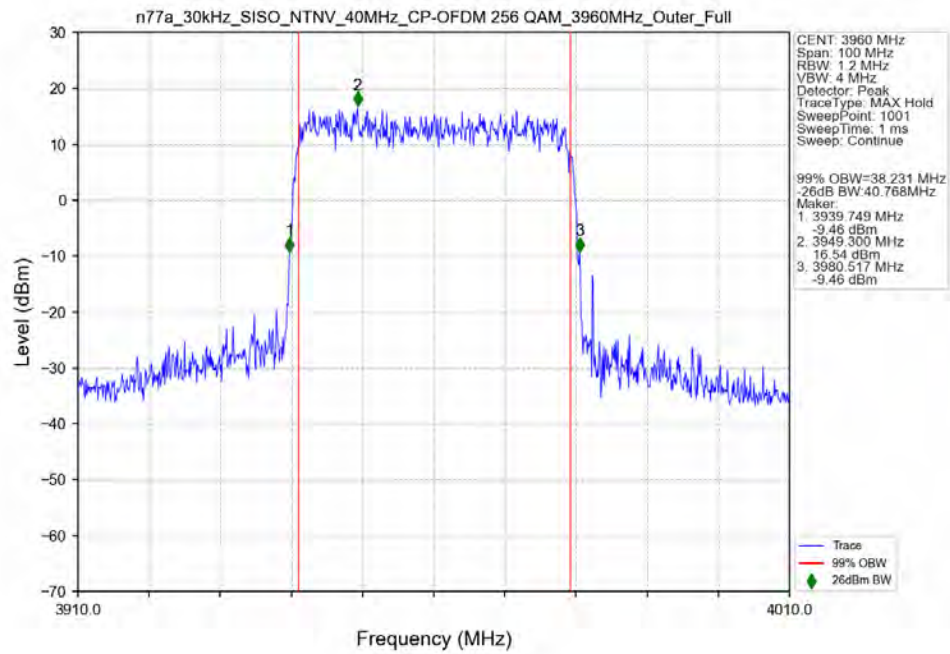
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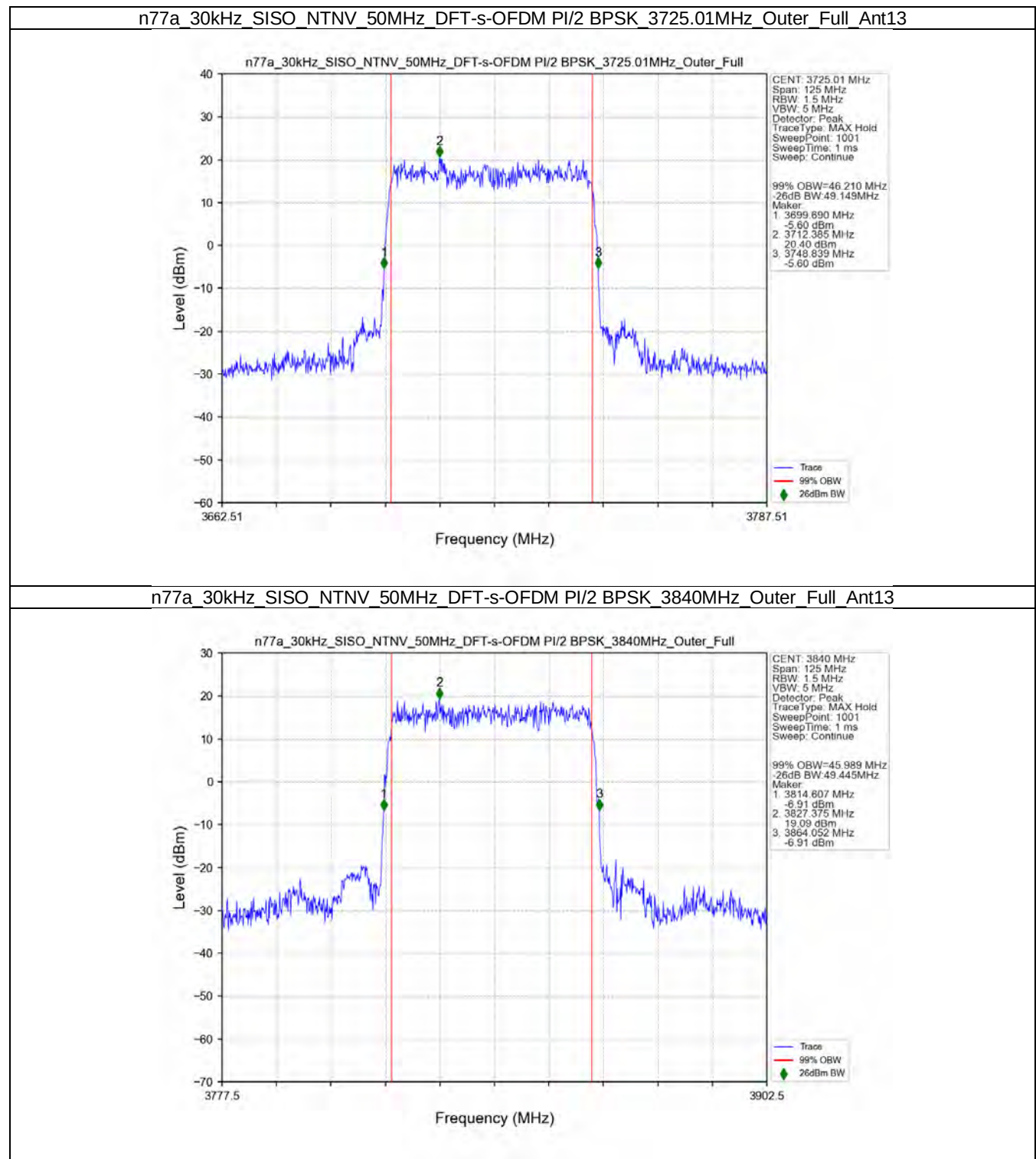
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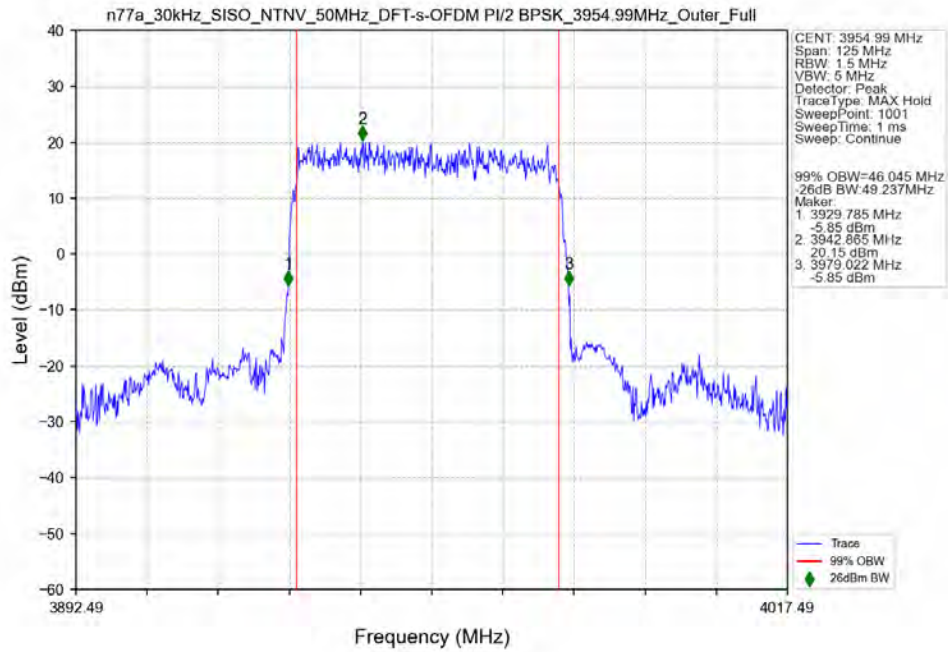
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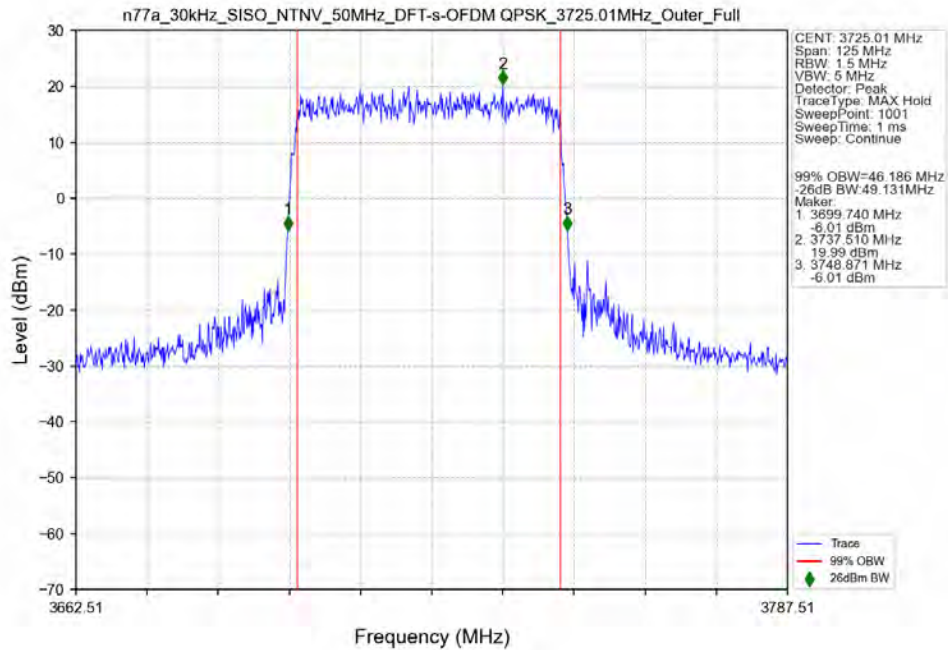
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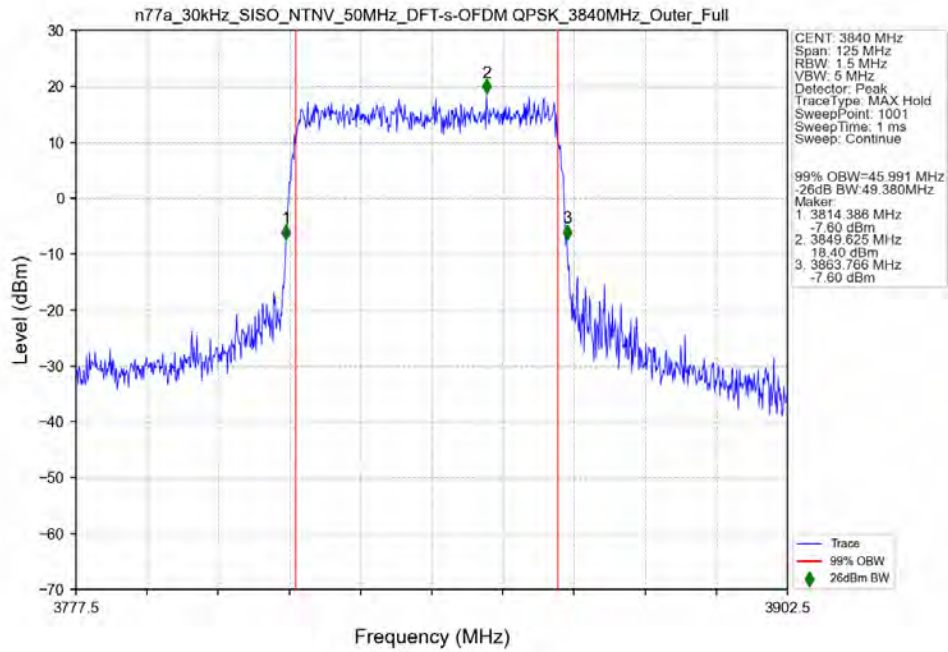
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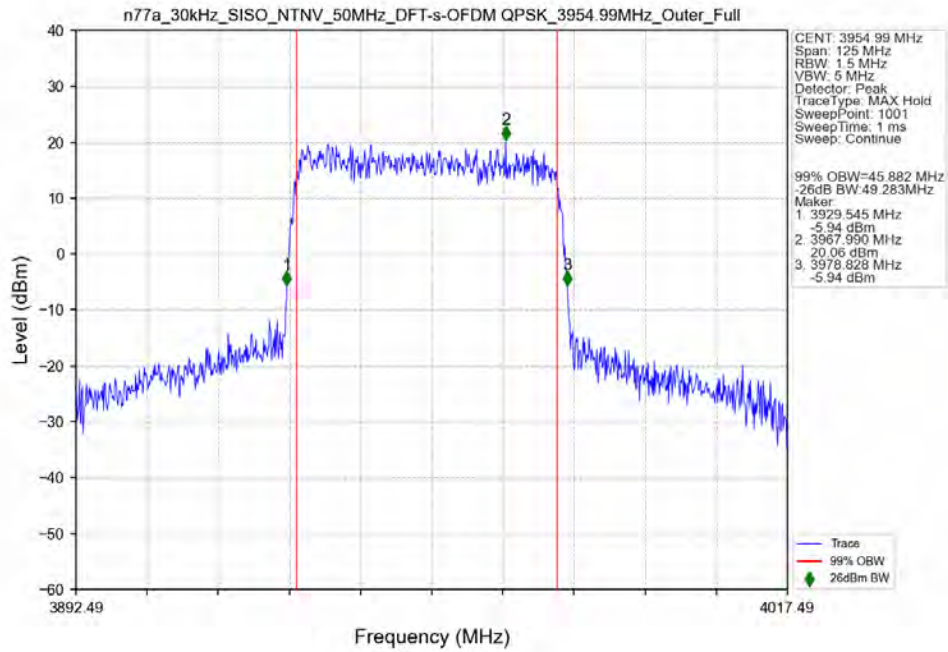
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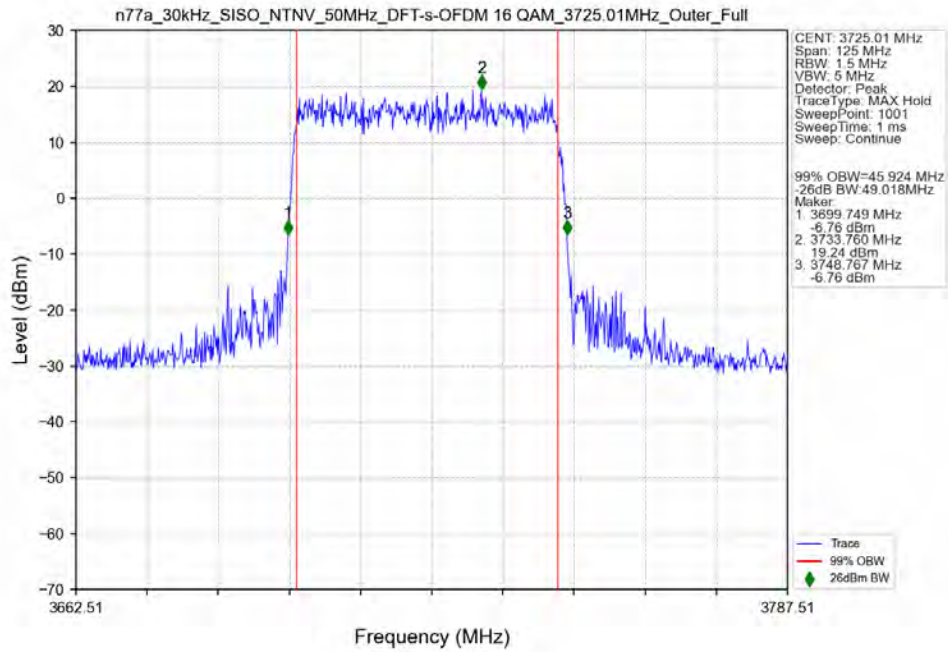
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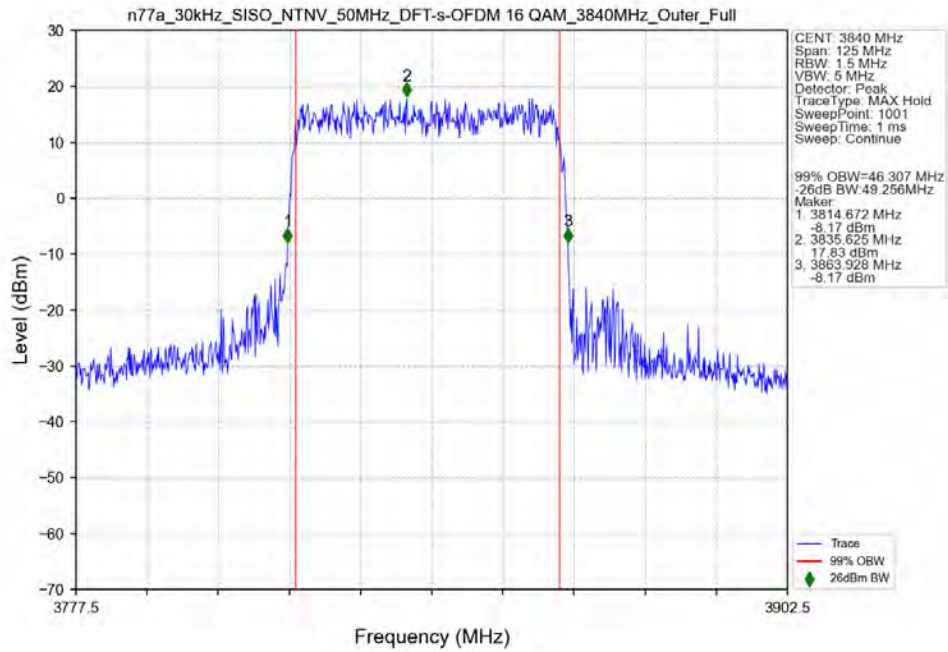
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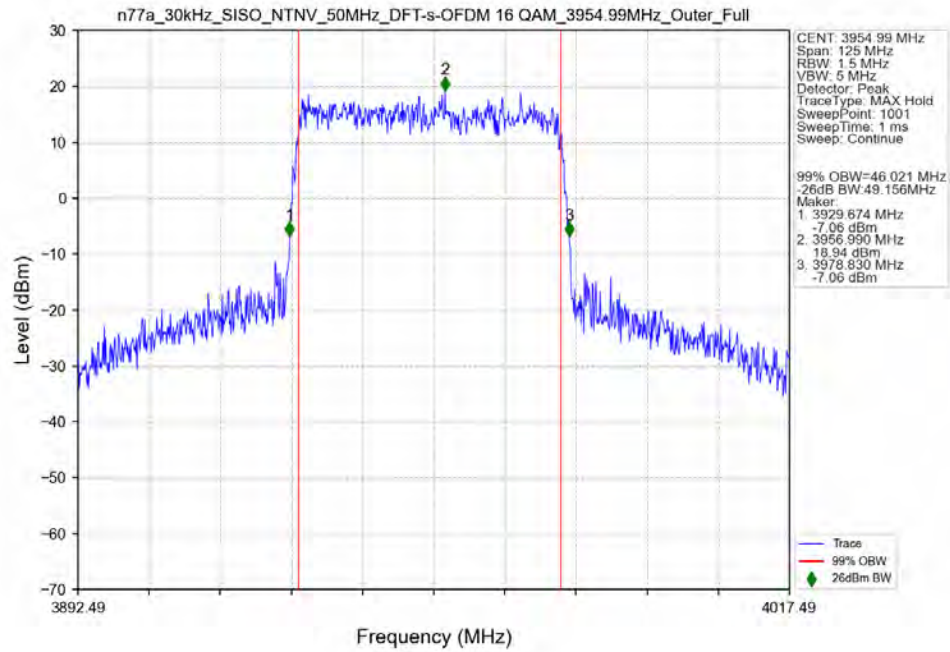
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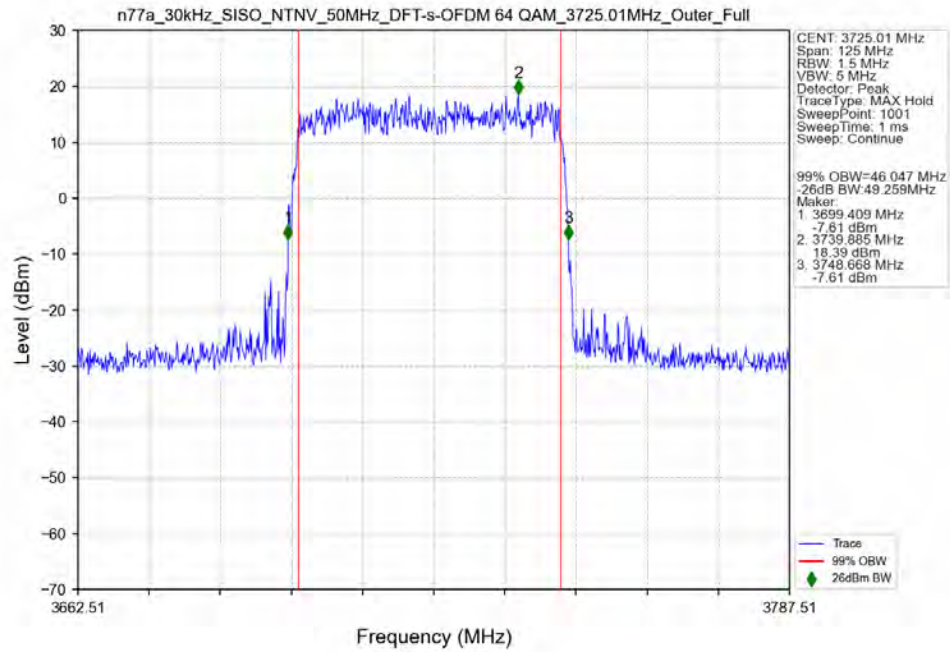
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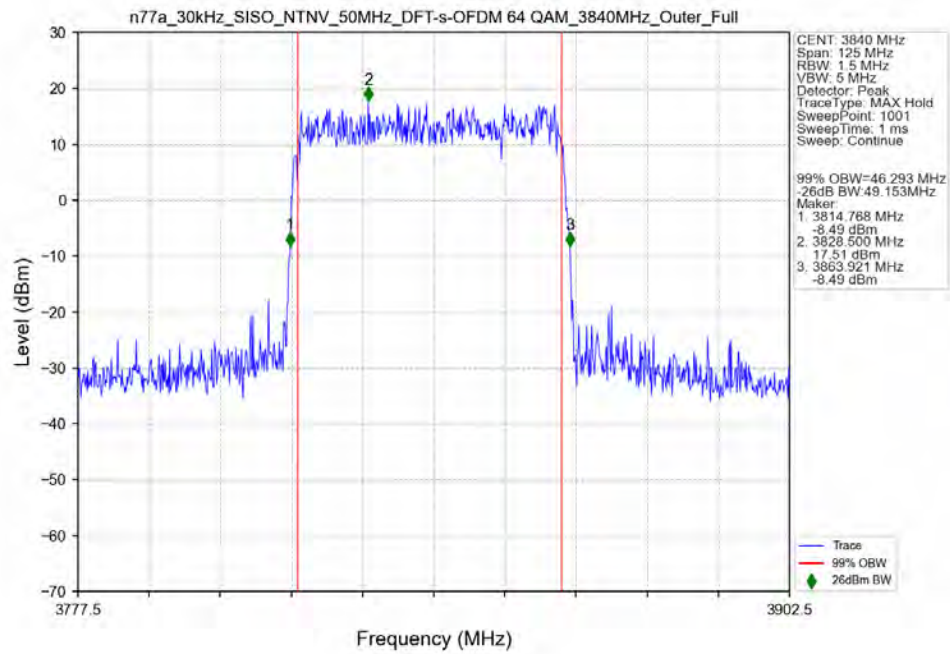
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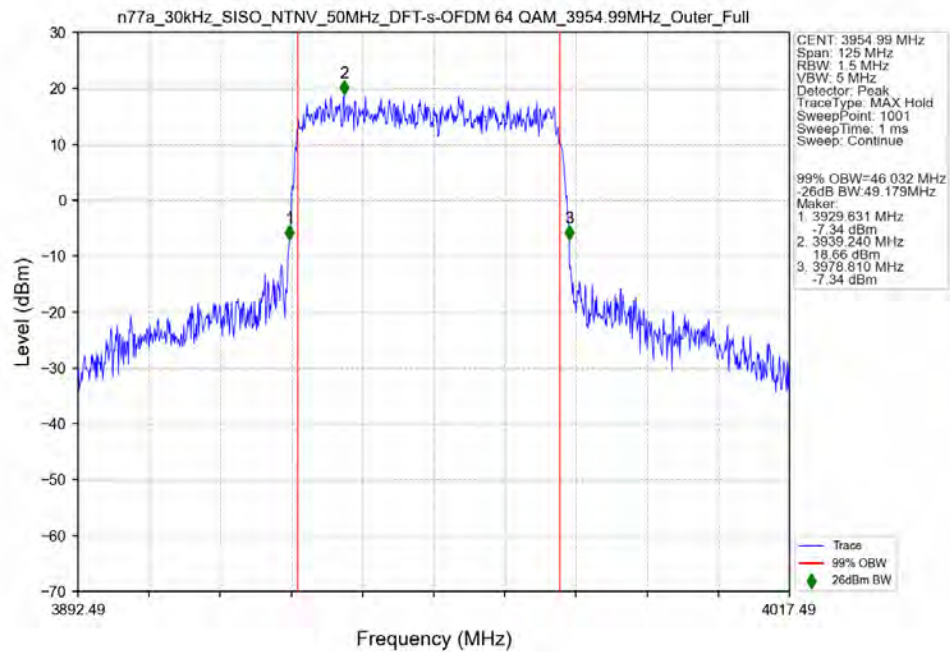
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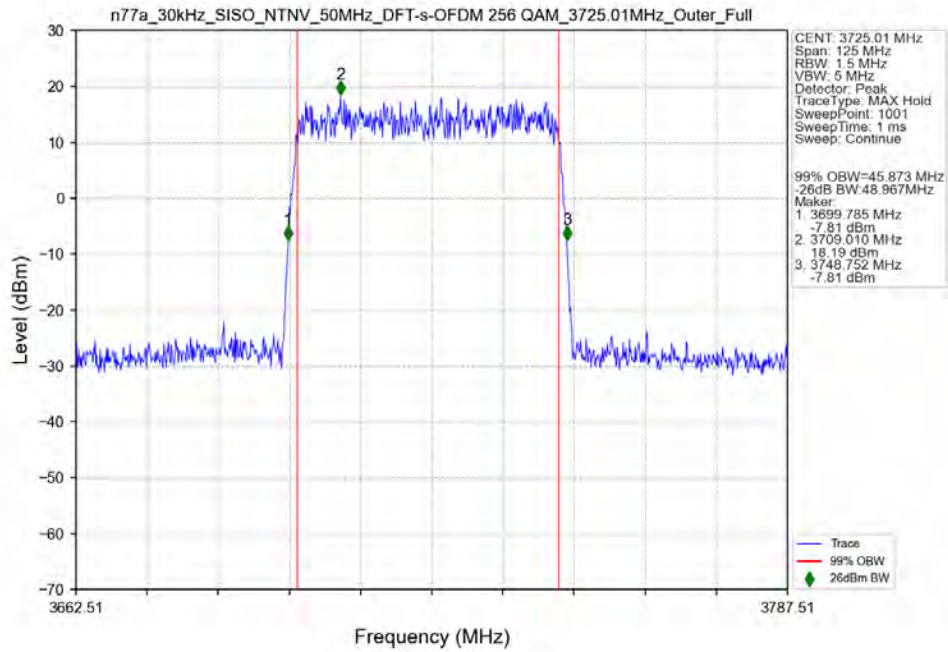
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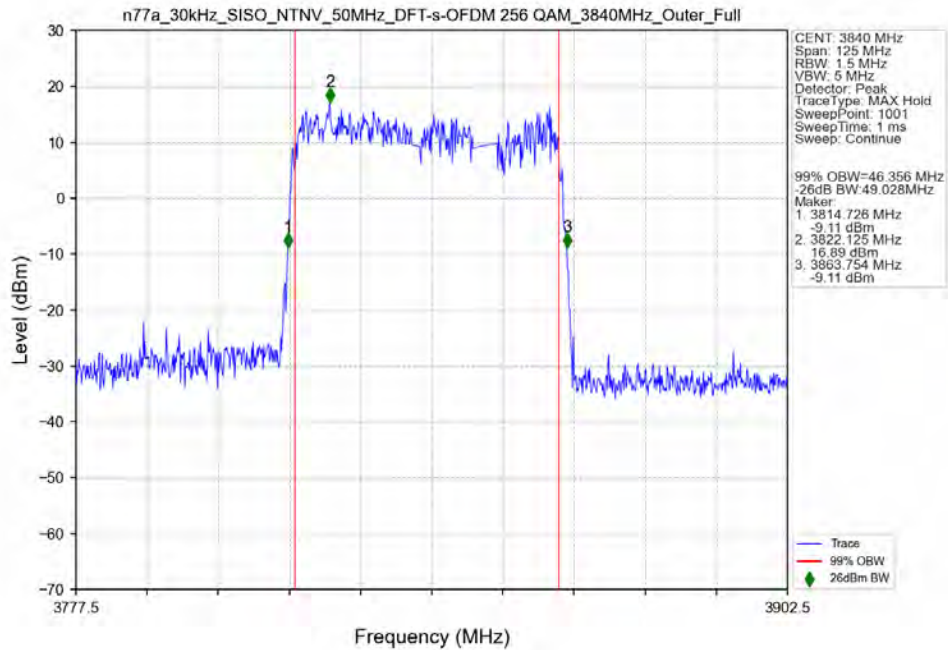
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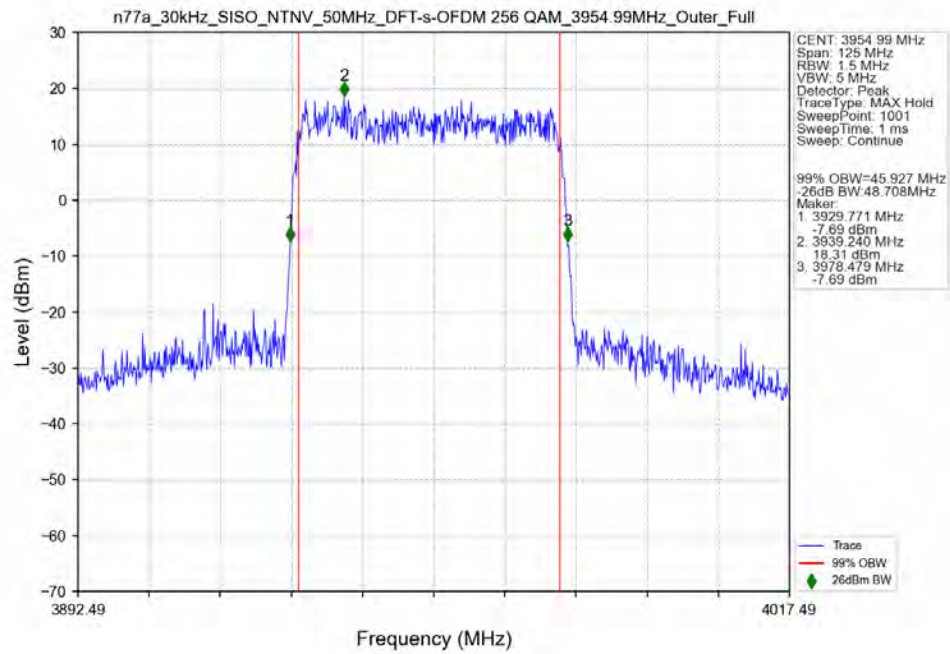
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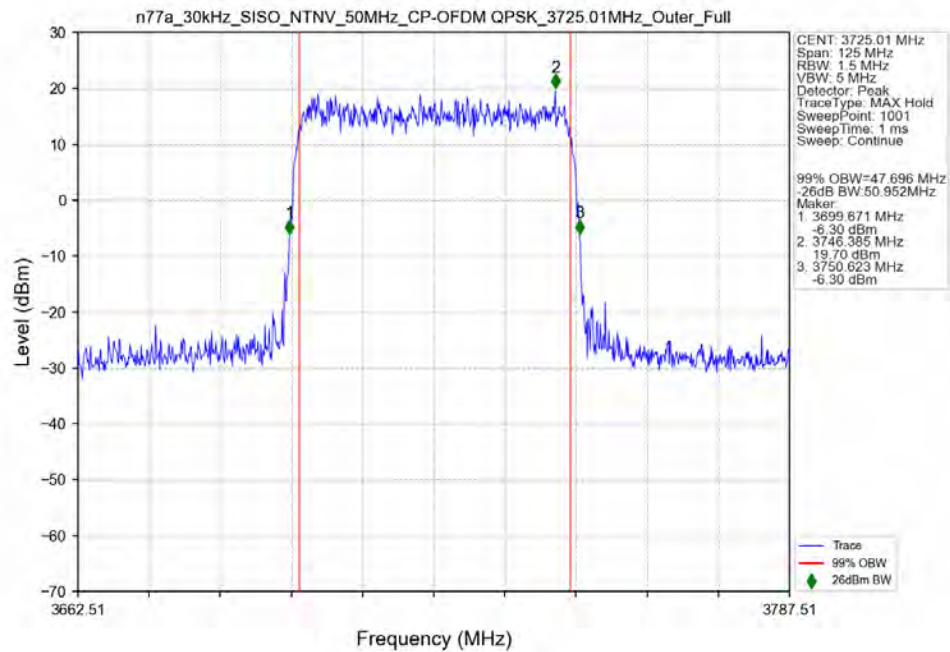
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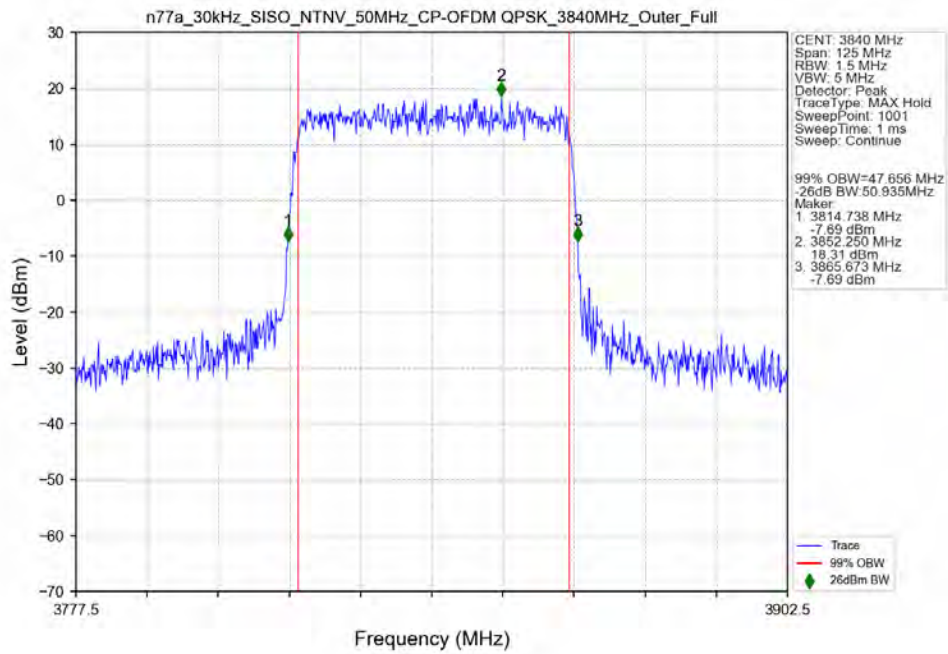
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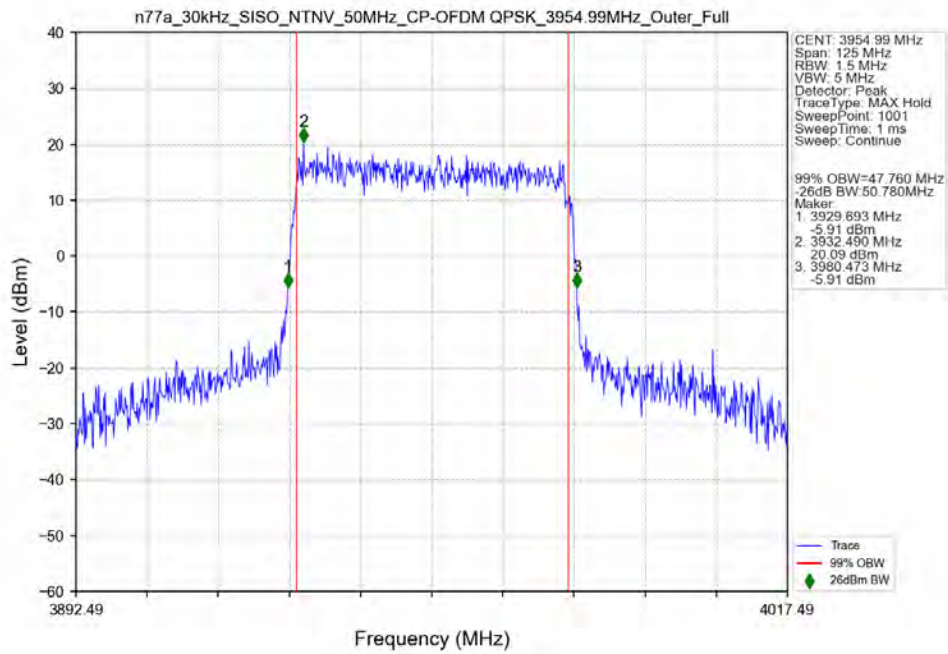
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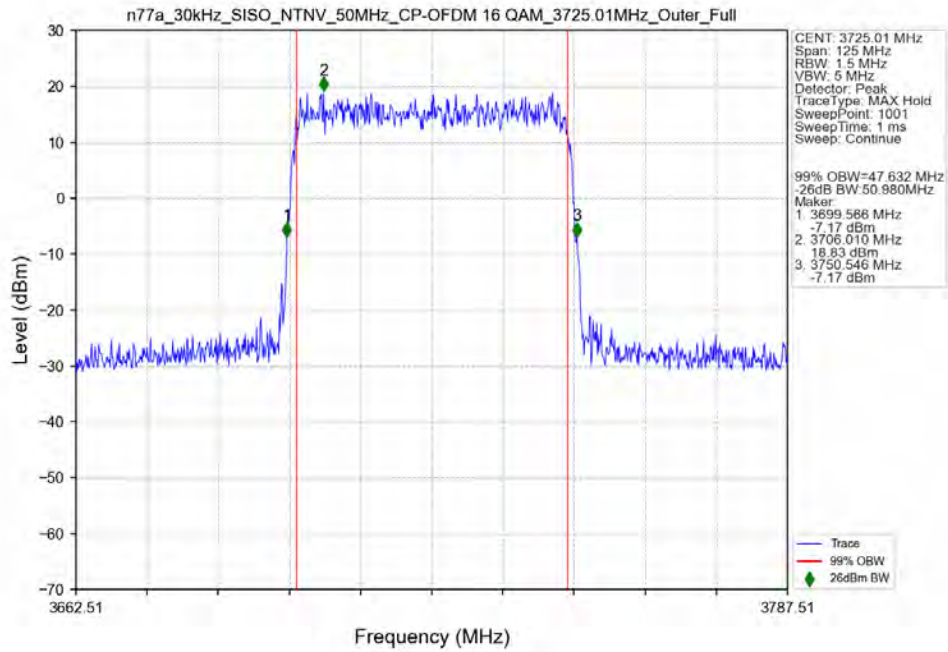
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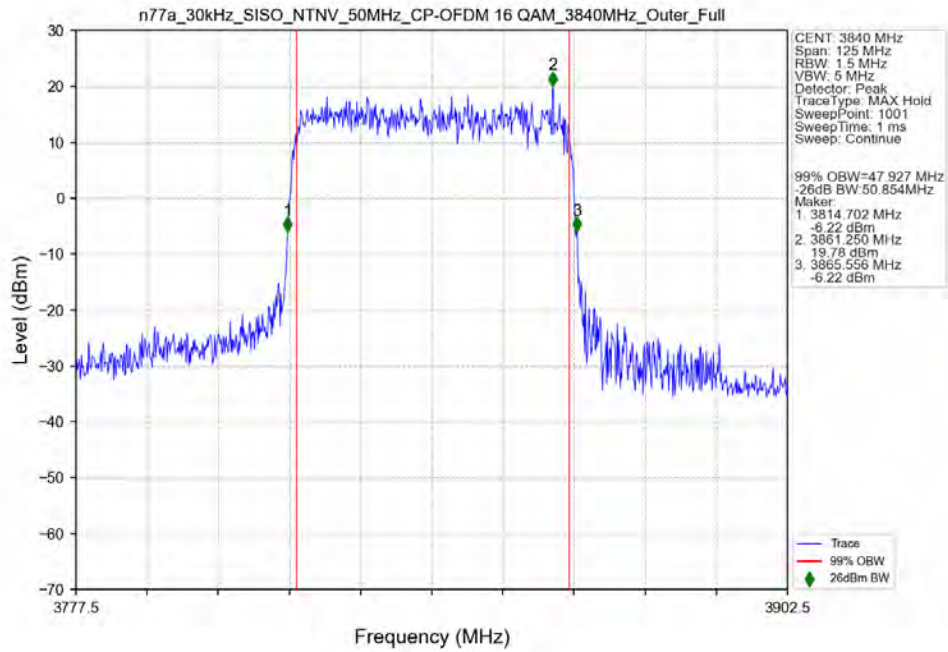
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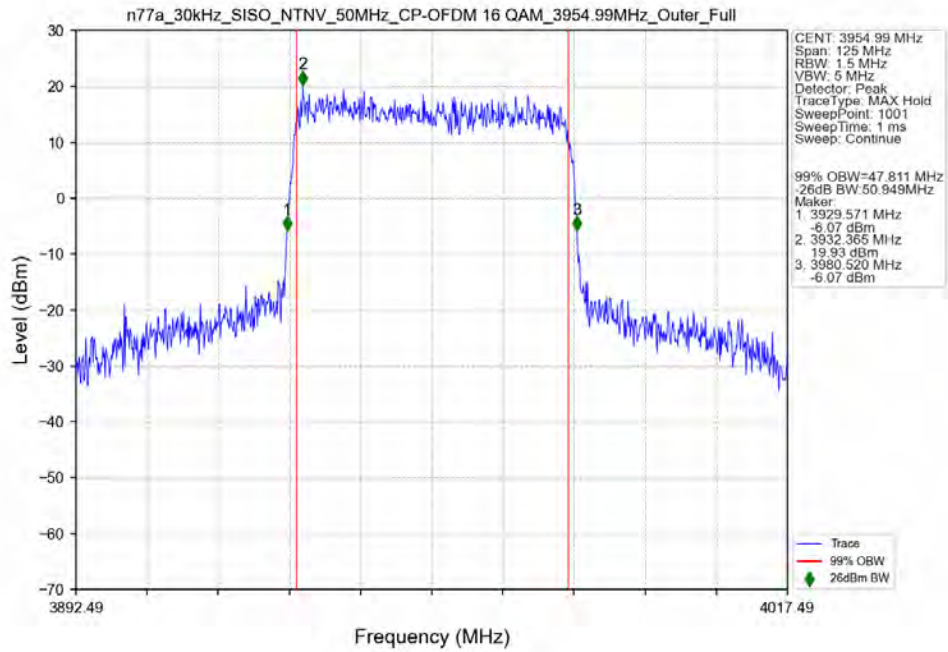
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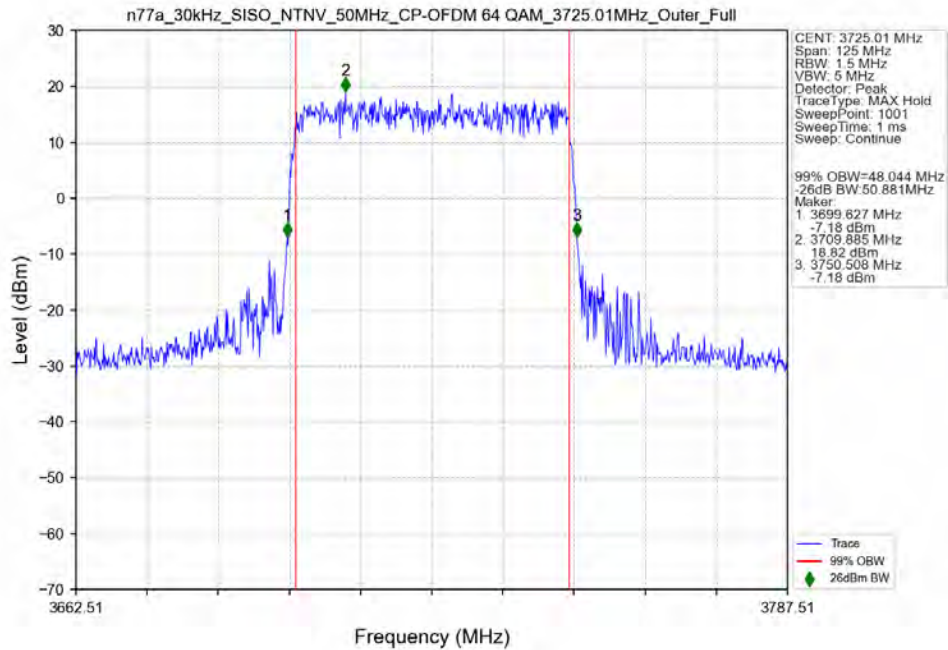
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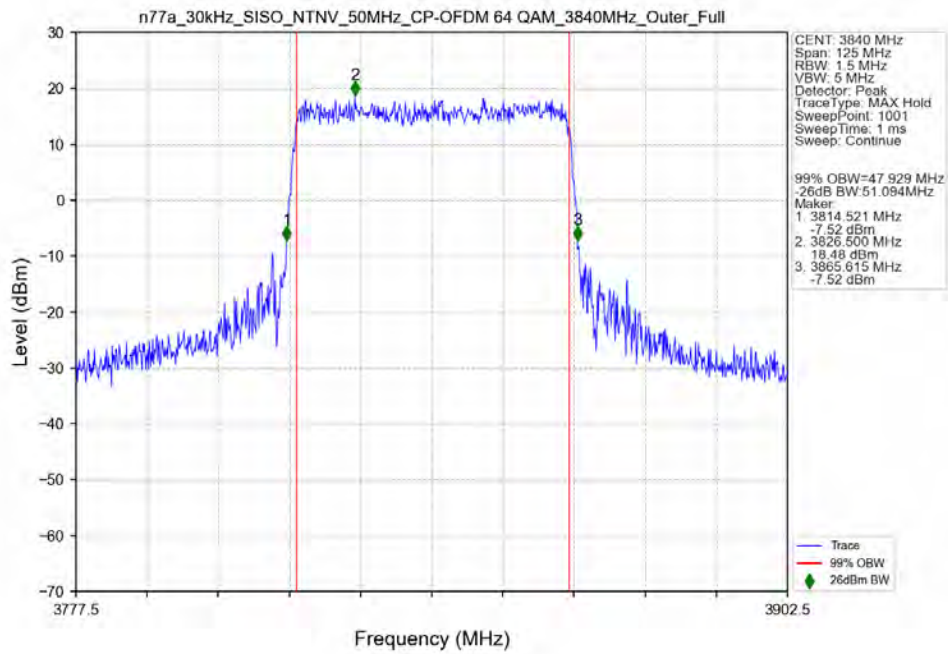
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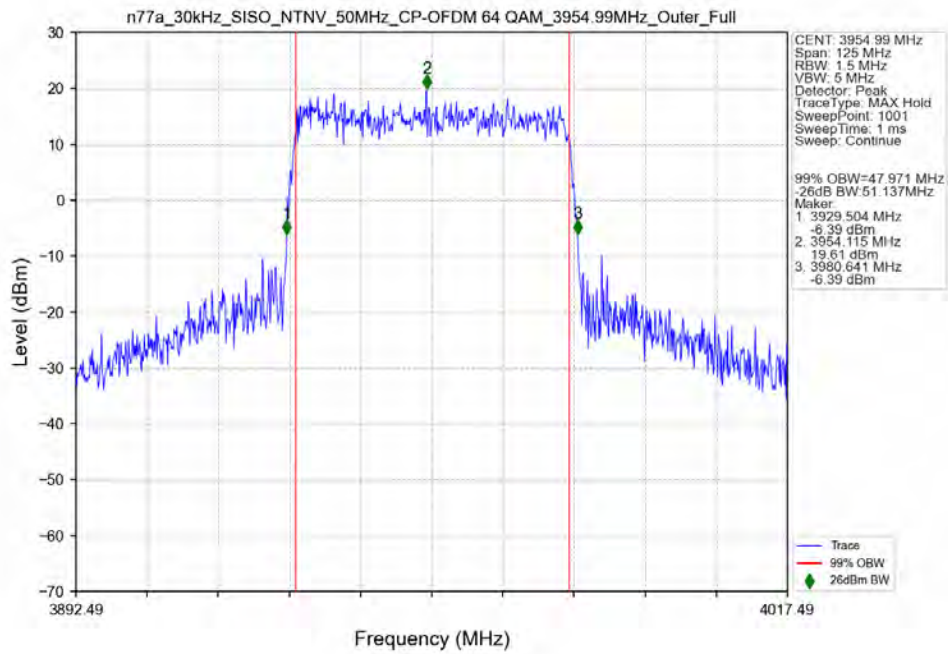
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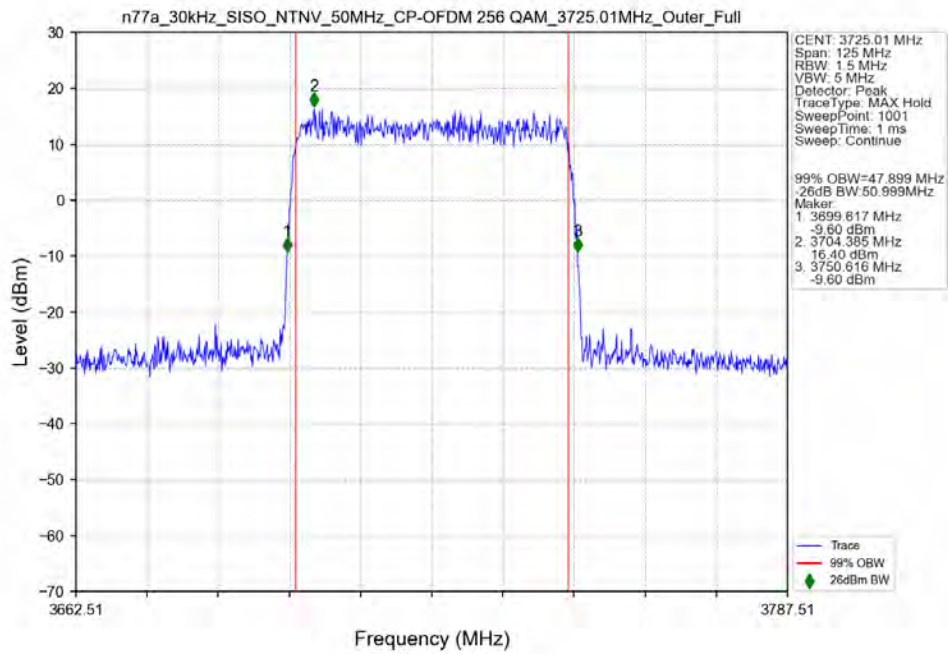
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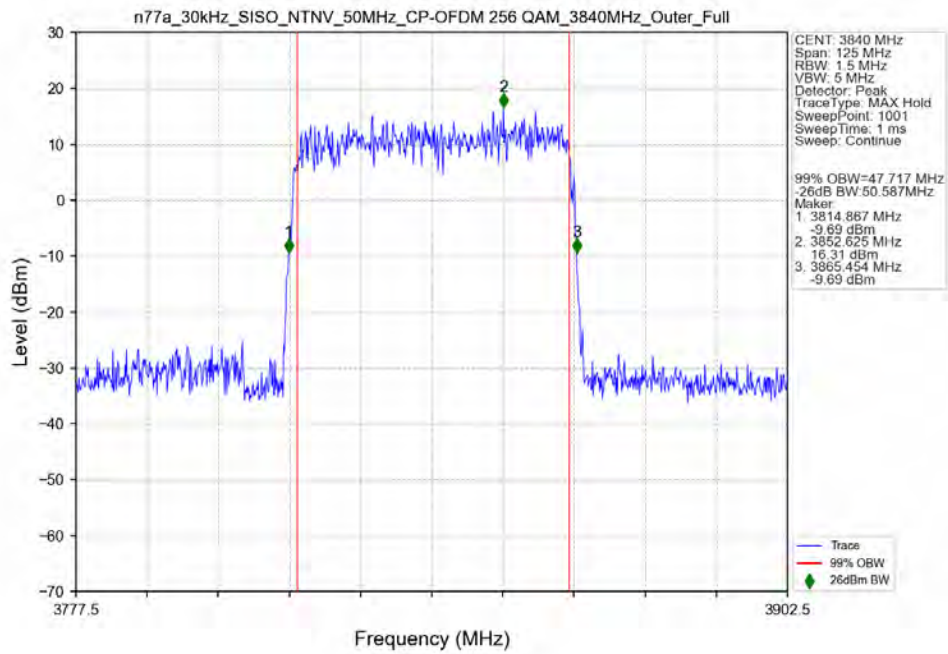
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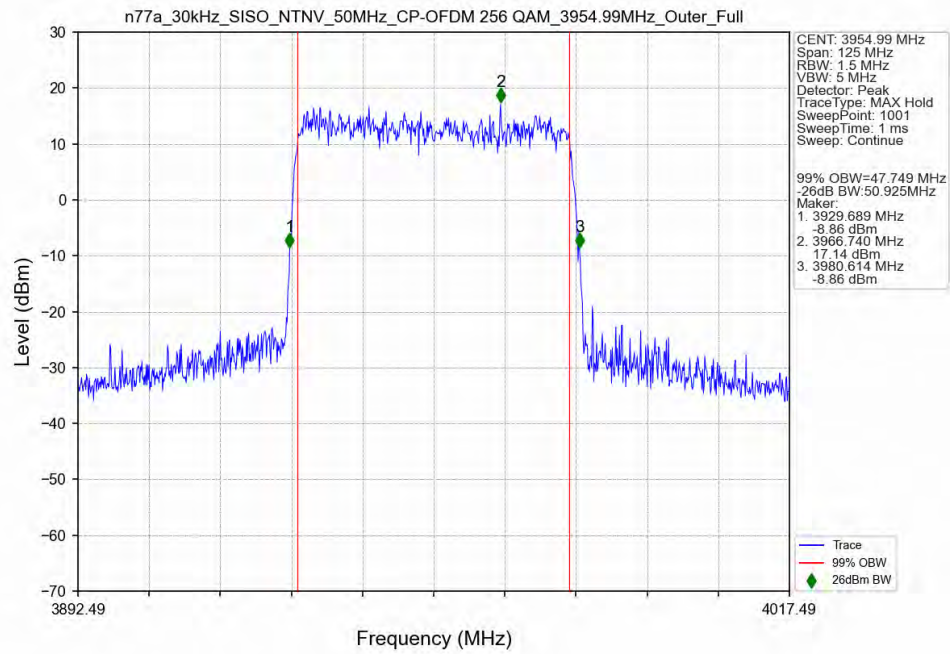
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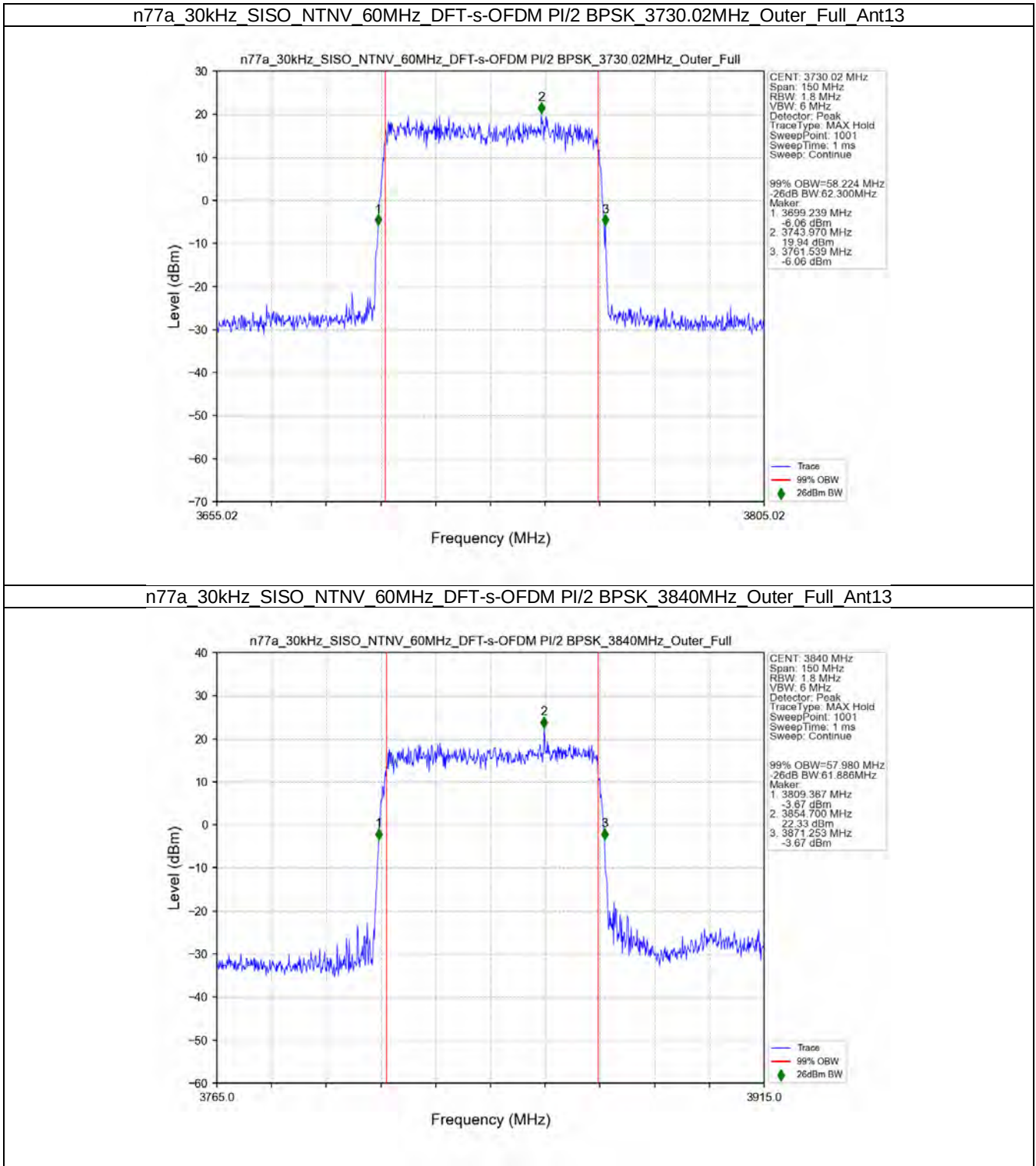
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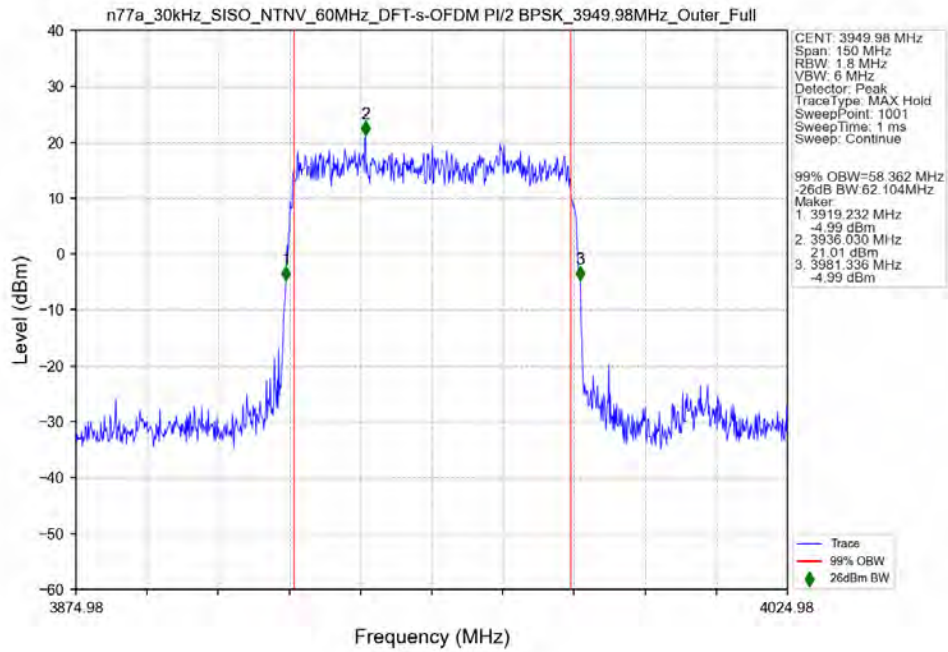
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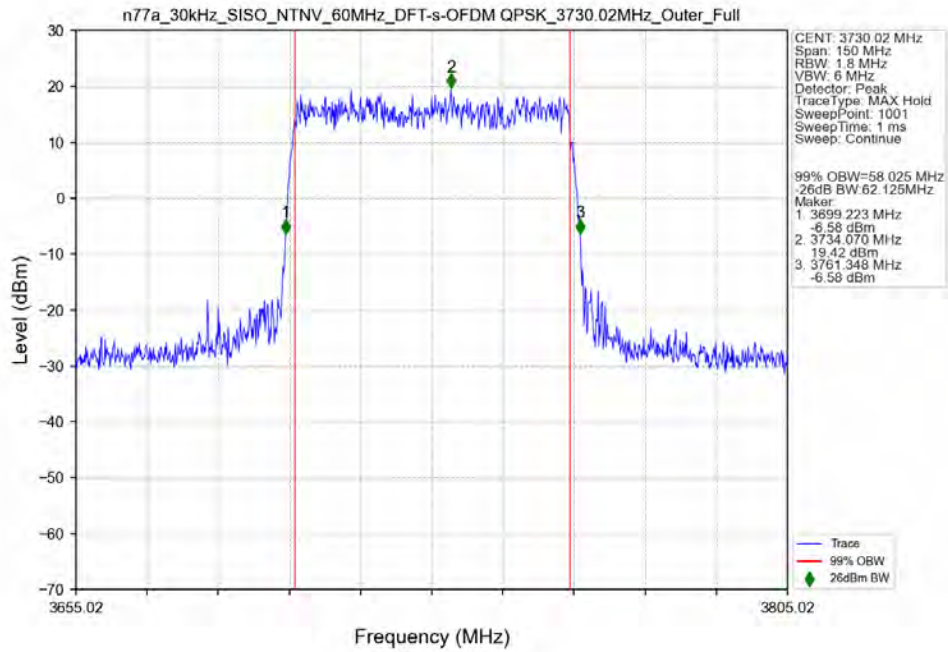
3.2.7 30k_SISO_60MHz_NTNV



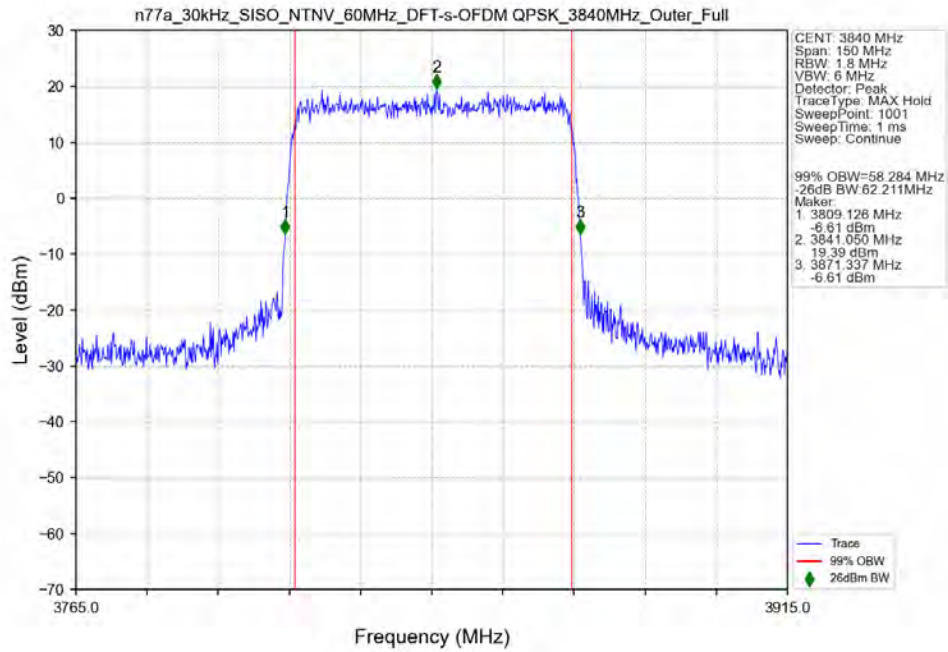
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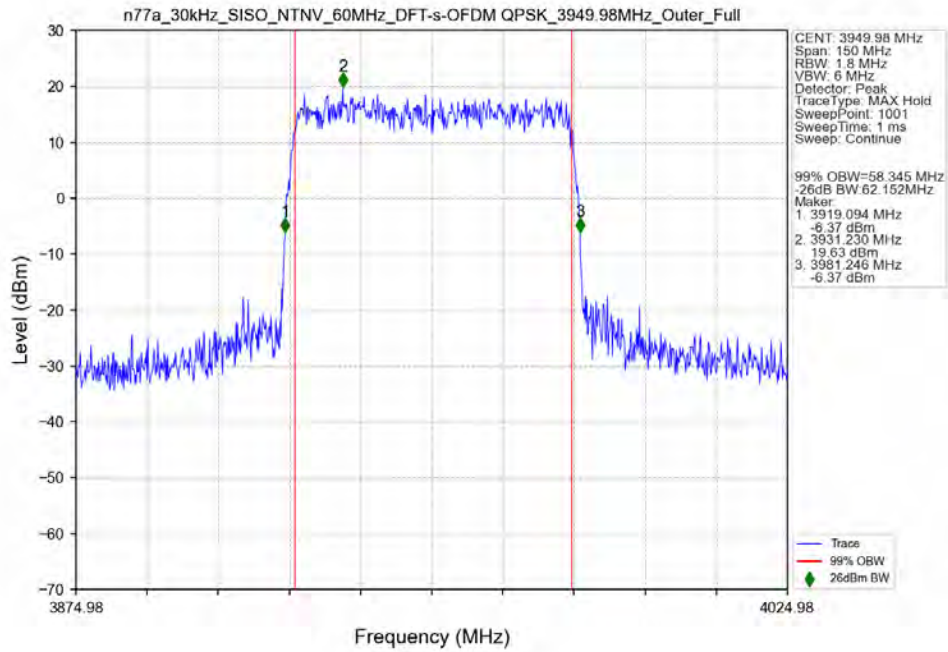
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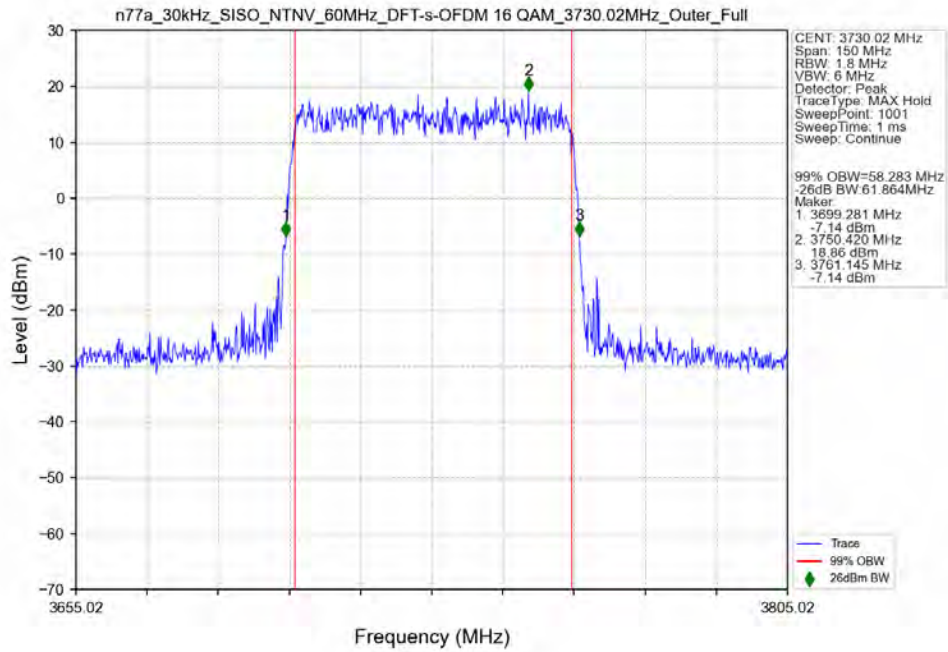
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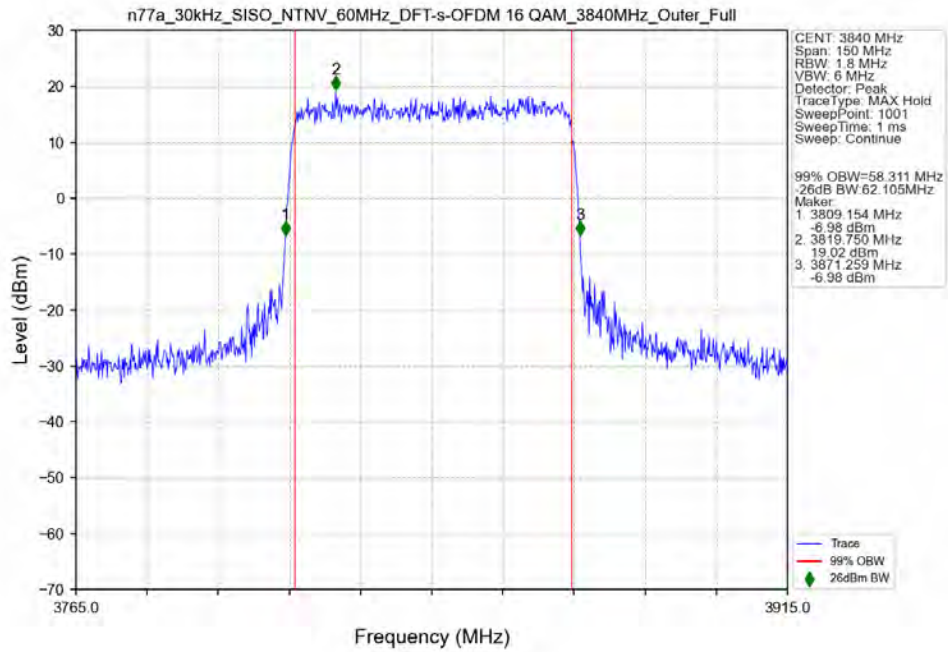
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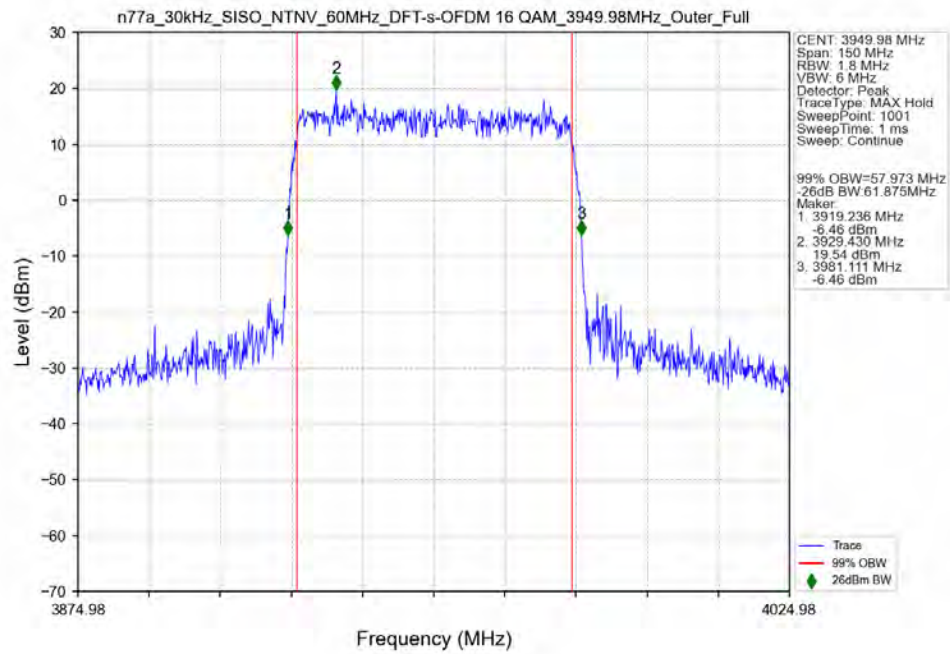
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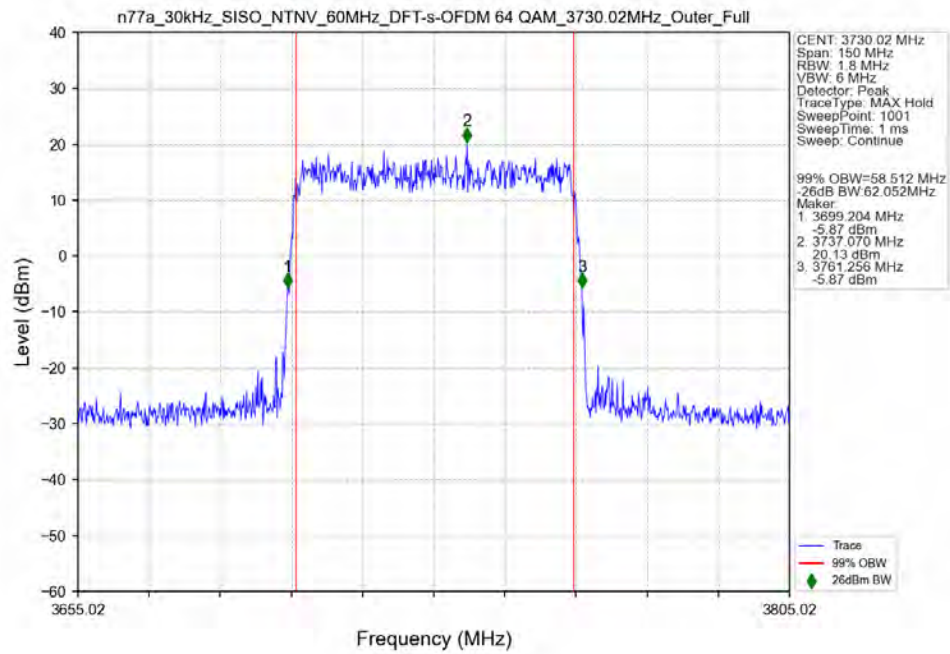
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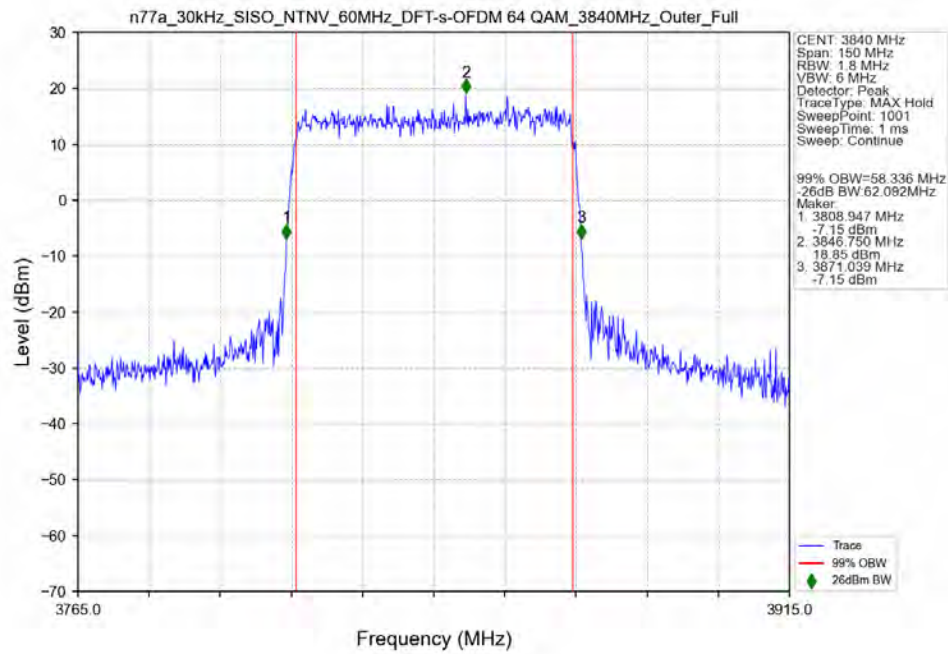
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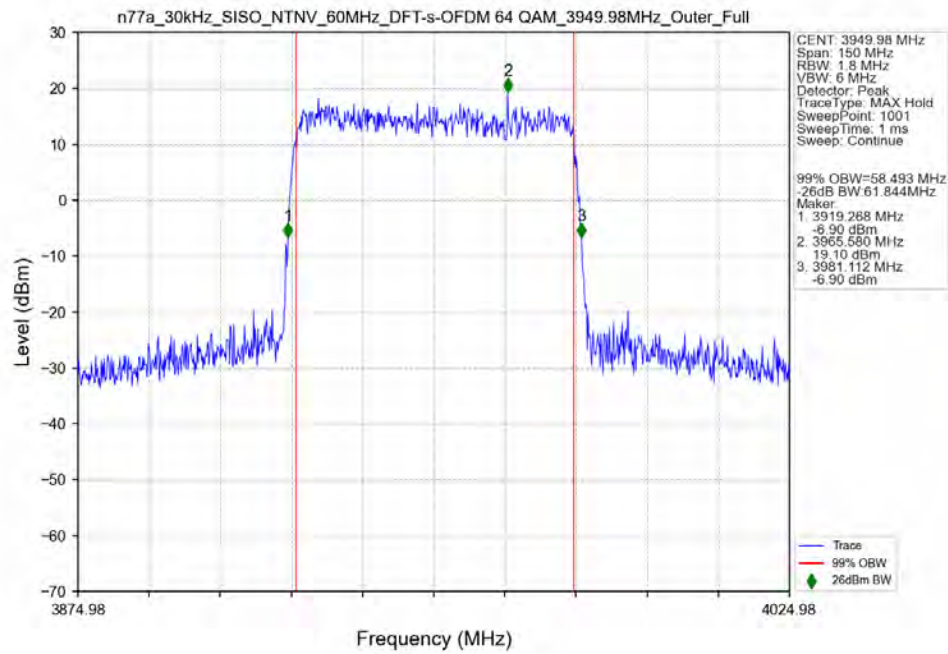
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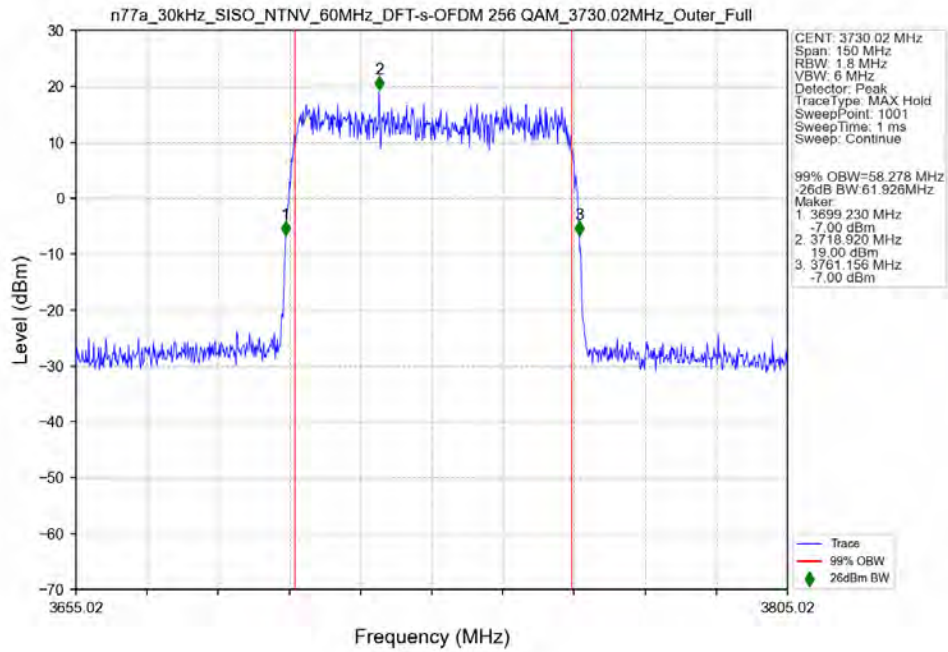
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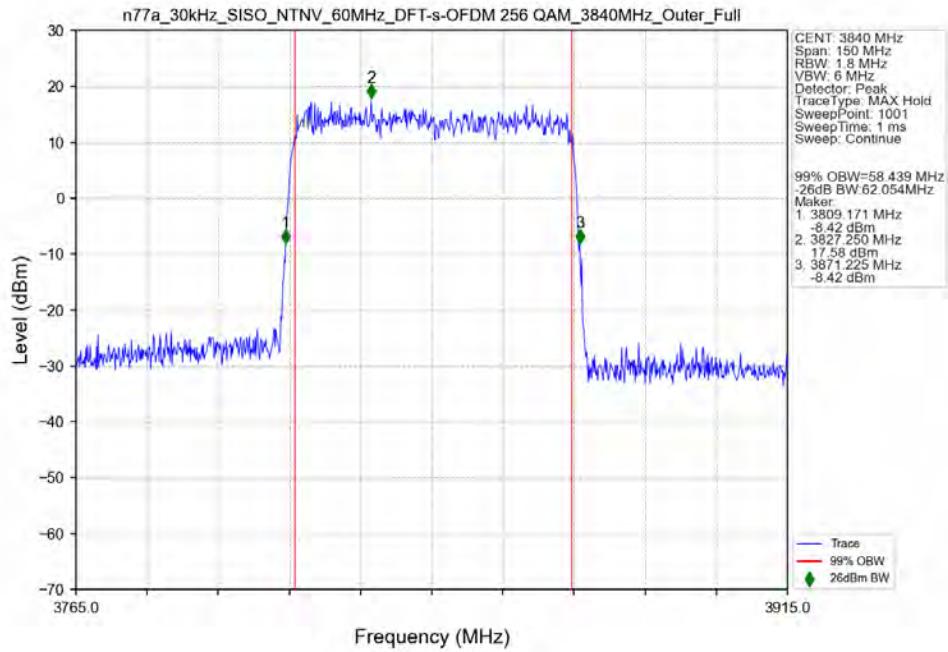
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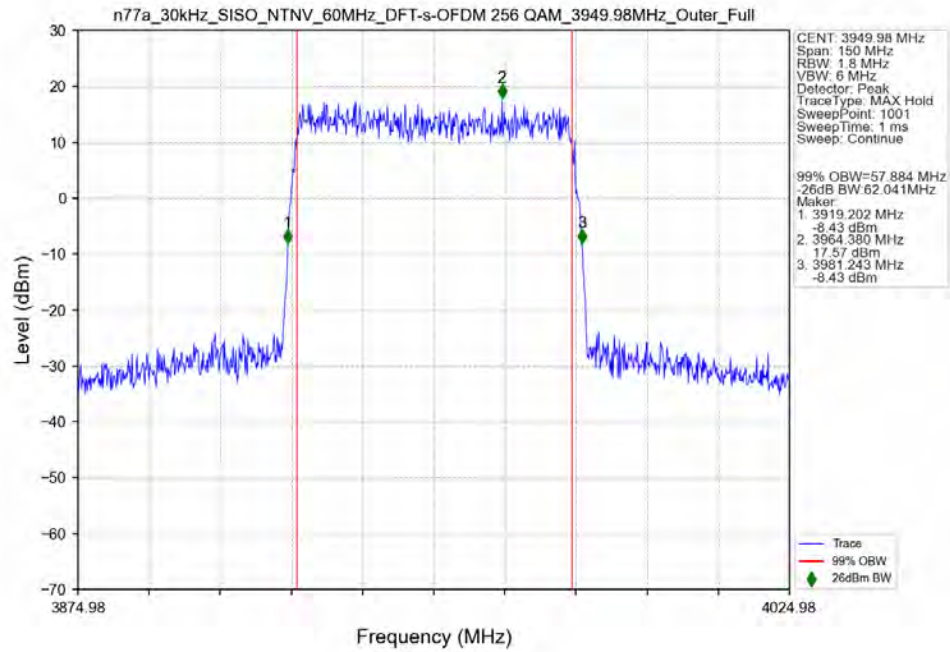
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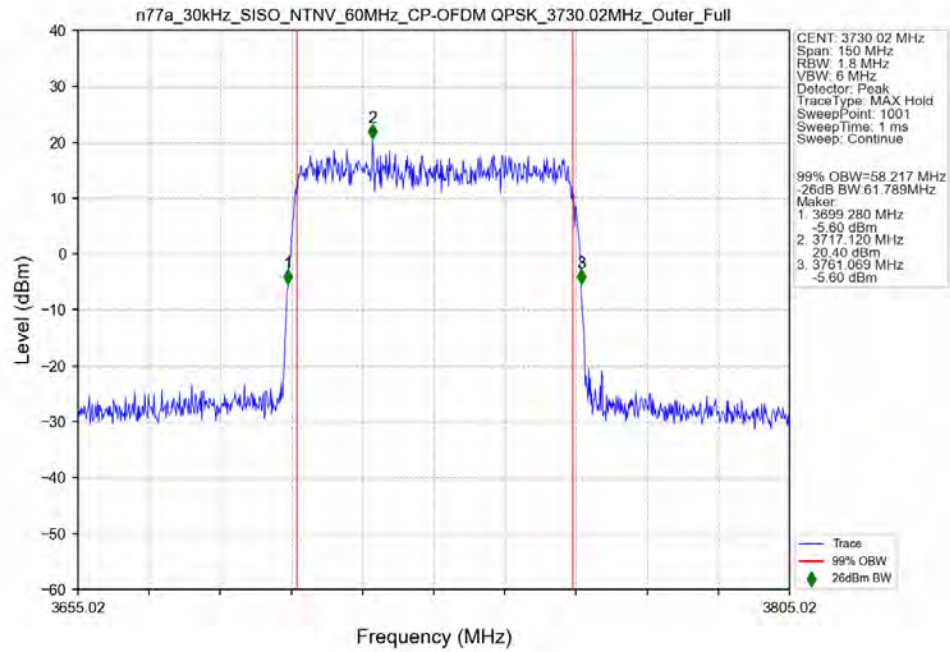
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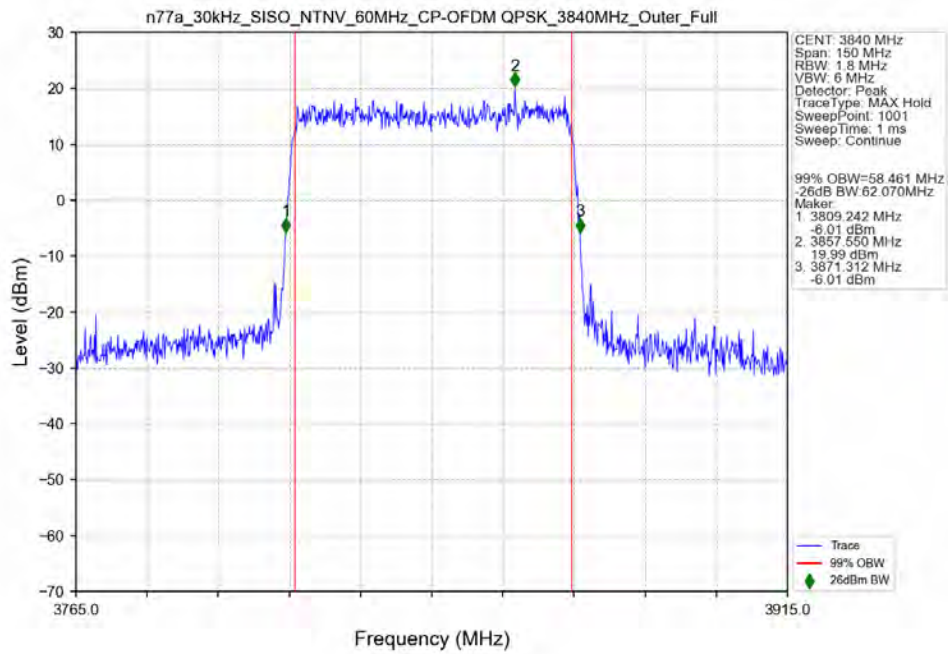
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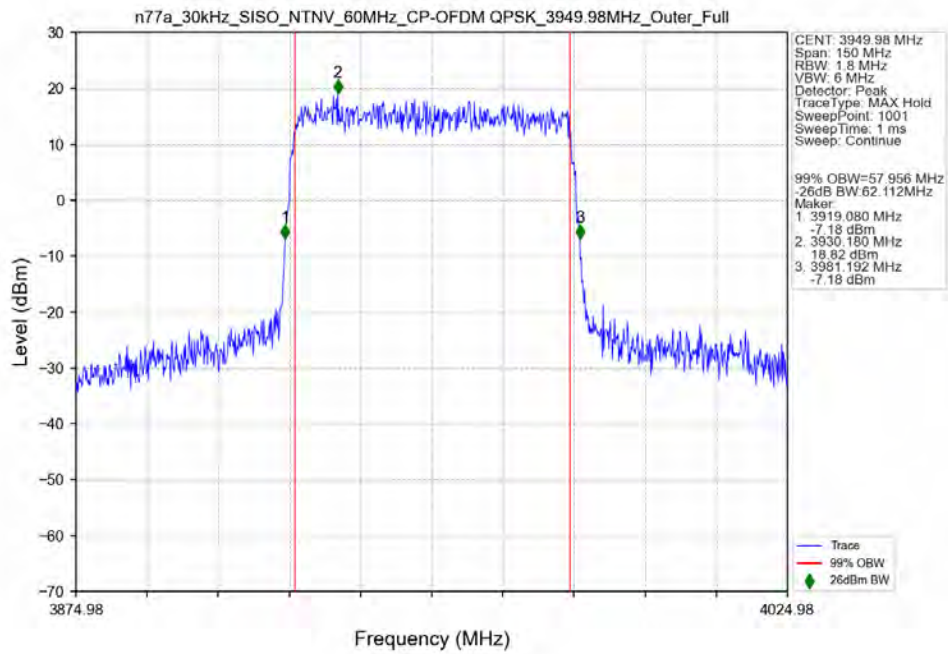
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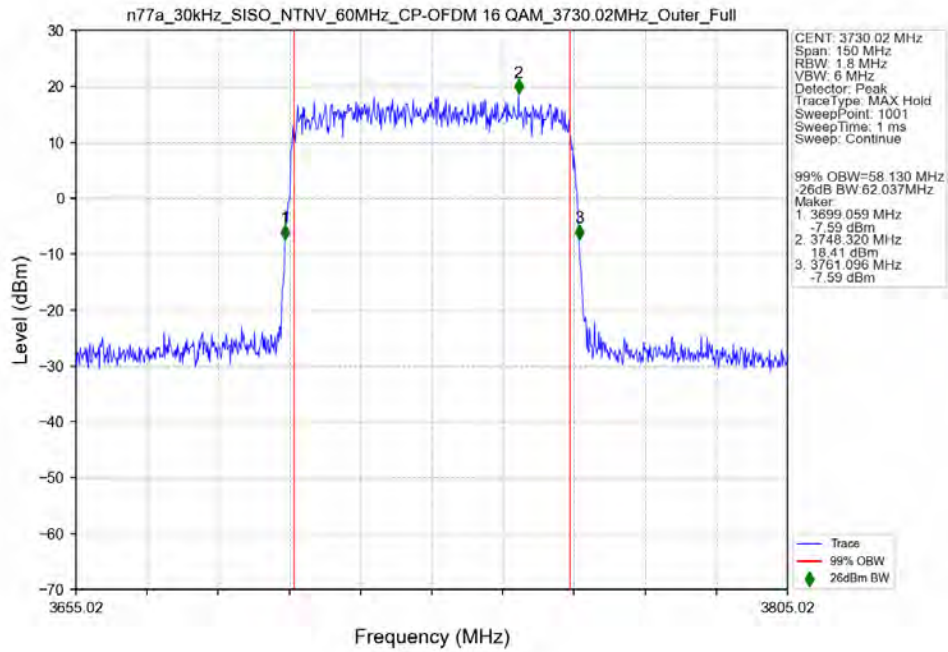
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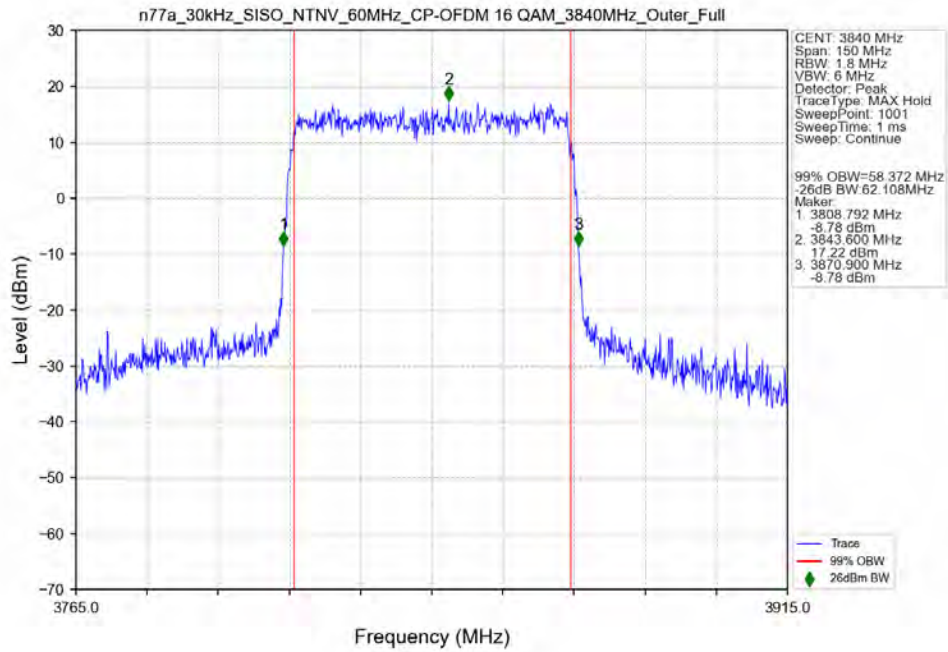
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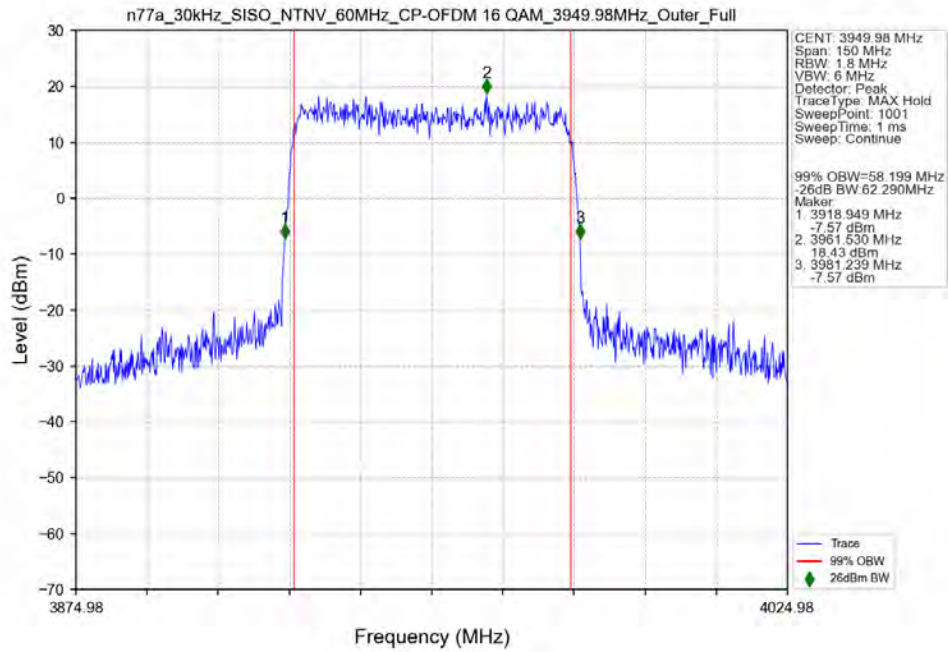
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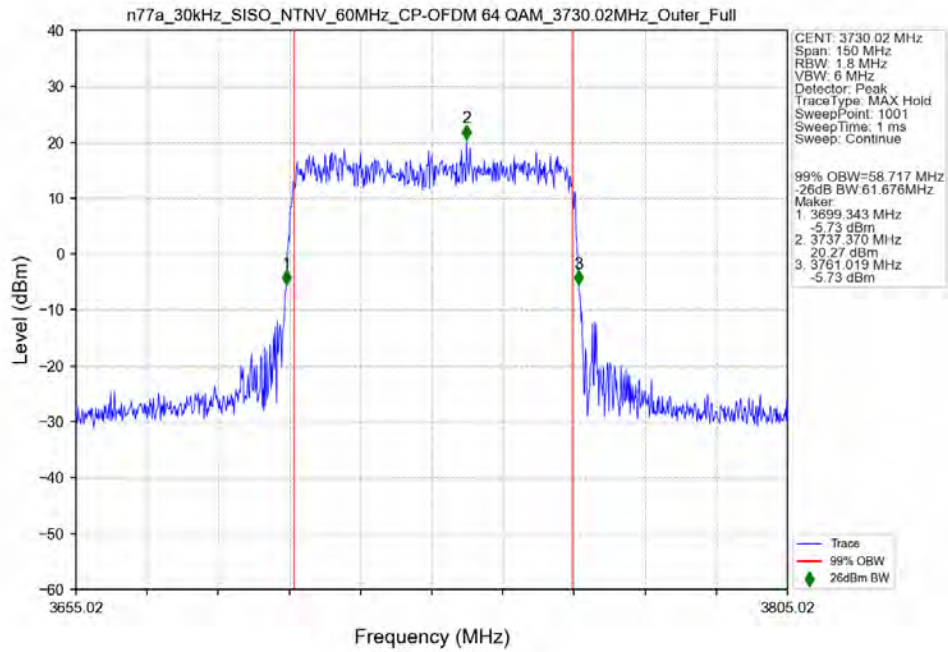
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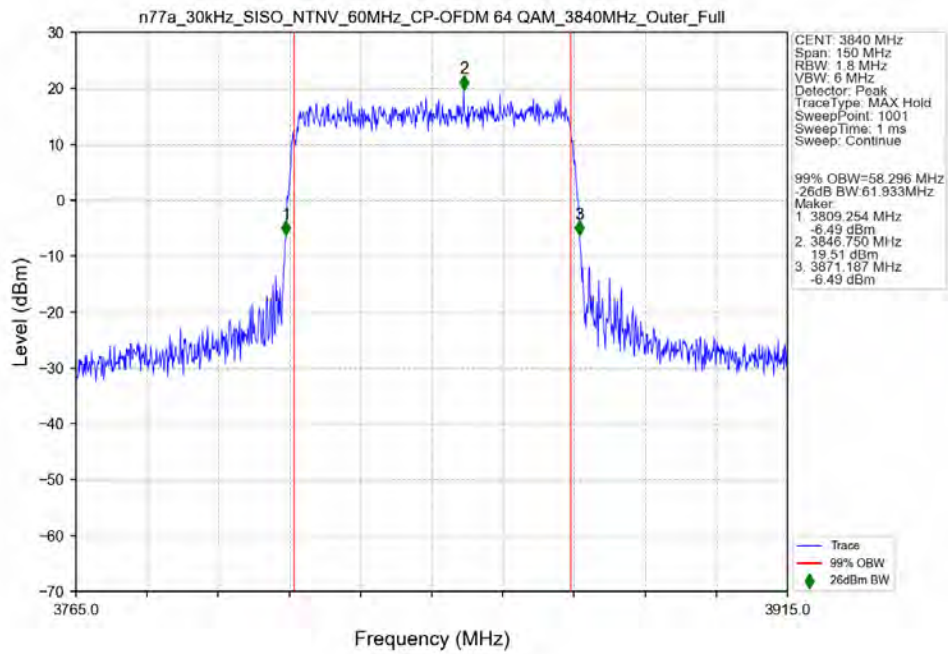
n77a_30kHz_SISO_NTNV_60MHz_CP-OFDM 16 QAM 3949.98MHz_Outer_Full_Ant13



n77a_30kHz_SISO_NTNV_60MHz_CP-OFDM 64 QAM 3730.02MHz_Outer_Full_Ant13



n77a_30kHz_SISO_NTNV_60MHz_CP-OFDM_64_QAM_3840MHz_Outer_Full_Ant13



n77a_30kHz_SISO_NTNV_60MHz_CP-OFDM_64_QAM_3949.98MHz_Outer_Full_Ant13

