



SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

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CP-OFDM 256 QAM	3500.01	Outer_Full	30	NV	2.70	0.0008	/	Pass
			40	NV	-12.30	-0.0035	/	Pass
			50	NV	3.70	0.0011	/	Pass
			20	LV	-5.00	-0.0014	/	Pass
				HV	6.40	0.0018	/	Pass
			-30	NV	-17.10	-0.0049	/	Pass
			-20	NV	-14.80	-0.0042	/	Pass
			-10	NV	-15.20	-0.0043	/	Pass
			0	NV	-4.20	-0.0012	/	Pass
			10	NV	-16.30	-0.0047	/	Pass
			20	NV	-9.40	-0.0027	/	Pass
			30	NV	-6.10	-0.0017	/	Pass
			40	NV	1.60	0.0005	/	Pass
			50	NV	7.00	0.0020	/	Pass

2.2 30k_SISO_30MHz

2.2.1 Test Result

5G NR n78e SCS=30kHz SISO 30MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	3500.01	Outer_Full	20	LV	2.10	0.0006	/	Pass
				HV	-3.60	-0.0010	/	Pass
			-30	NV	-6.70	-0.0019	/	Pass
			-20	NV	-24.80	-0.0071	/	Pass
			-10	NV	8.00	0.0023	/	Pass
			0	NV	-8.00	-0.0023	/	Pass
			10	NV	-17.00	-0.0049	/	Pass
			20	NV	3.50	0.0010	/	Pass
			30	NV	-10.90	-0.0031	/	Pass
			40	NV	10.10	0.0029	/	Pass
DFT-s-OFDM QPSK	3500.01	Outer_Full	50	NV	-15.40	-0.0044	/	Pass
			20	LV	-16.30	-0.0047	/	Pass
				HV	4.00	0.0011	/	Pass
			-30	NV	-19.70	-0.0056	/	Pass
			-20	NV	-5.00	-0.0014	/	Pass
			-10	NV	-8.70	-0.0025	/	Pass
			0	NV	-8.20	-0.0023	/	Pass
			10	NV	7.10	0.0020	/	Pass
			20	NV	7.40	0.0021	/	Pass
			30	NV	-10.40	-0.0030	/	Pass
DFT-s-OFDM 16 QAM	3500.01	Outer_Full	40	NV	-14.40	-0.0041	/	Pass
			50	NV	-11.60	-0.0033	/	Pass
			20	LV	-7.90	-0.0023	/	Pass
				HV	-5.50	-0.0016	/	Pass



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			-30	NV	-7.30	-0.0021	/	Pass
			-20	NV	-9.20	-0.0026	/	Pass
			-10	NV	8.50	0.0024	/	Pass
			0	NV	-7.20	-0.0021	/	Pass
			10	NV	3.10	0.0009	/	Pass
			20	NV	-14.70	-0.0042	/	Pass
			30	NV	4.80	0.0014	/	Pass
			40	NV	-5.70	-0.0016	/	Pass
			50	NV	-17.80	-0.0051	/	Pass
DFT-s-OFDM 64 QAM	3500.01	Outer_Full	20	LV	8.50	0.0024	/	Pass
				HV	-10.50	-0.0030	/	Pass
			-30	NV	-17.30	-0.0049	/	Pass
			-20	NV	-4.10	-0.0012	/	Pass
			-10	NV	-8.90	-0.0025	/	Pass
			0	NV	-10.80	-0.0031	/	Pass
			10	NV	-13.00	-0.0037	/	Pass
			20	NV	-2.80	-0.0008	/	Pass
			30	NV	13.10	0.0037	/	Pass
DFT-s-OFDM 256 QAM	3500.01	Outer_Full	40	NV	-6.60	-0.0019	/	Pass
			50	NV	-13.70	-0.0039	/	Pass
			20	LV	12.20	0.0035	/	Pass
				HV	-8.40	-0.0024	/	Pass
			-30	NV	-8.10	-0.0023	/	Pass
			-20	NV	-8.00	-0.0023	/	Pass
			-10	NV	-13.20	-0.0038	/	Pass
			0	NV	-12.90	-0.0037	/	Pass
			10	NV	-25.80	-0.0074	/	Pass
CP-OFDM QPSK	3500.01	Outer_Full	20	NV	7.90	0.0023	/	Pass
			30	NV	-12.40	-0.0035	/	Pass
			40	NV	-13.50	-0.0039	/	Pass
			50	NV	-1.10	-0.0003	/	Pass
			20	LV	-15.90	-0.0045	/	Pass
				HV	-9.60	-0.0027	/	Pass
			-30	NV	-4.90	-0.0014	/	Pass
			-20	NV	-11.00	-0.0031	/	Pass
			-10	NV	-4.30	-0.0012	/	Pass
CP-OFDM 16 QAM	3500.01	Outer_Full	0	NV	5.50	0.0016	/	Pass
			10	NV	3.00	0.0009	/	Pass
			20	NV	4.50	0.0013	/	Pass
			30	NV	-5.20	-0.0015	/	Pass
			40	NV	-5.50	-0.0016	/	Pass
			50	NV	-5.20	-0.0015	/	Pass
			20	LV	-13.40	-0.0038	/	Pass
				HV	11.80	0.0034	/	Pass
			-30	NV	-13.30	-0.0038	/	Pass
			-20	NV	-23.10	-0.0066	/	Pass
			-10	NV	8.00	0.0023	/	Pass
			0	NV	-11.30	-0.0032	/	Pass



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			10	NV	12.40	0.0035	/	Pass
			20	NV	3.60	0.0010	/	Pass
			30	NV	6.10	0.0017	/	Pass
			40	NV	-12.60	-0.0036	/	Pass
			50	NV	-13.70	-0.0039	/	Pass
CP-OFDM 64 QAM	3500.01	Outer_Full	20	LV	-9.10	-0.0026	/	Pass
				HV	-6.90	-0.0020	/	Pass
			-30	NV	-6.80	-0.0019	/	Pass
			-20	NV	5.70	0.0016	/	Pass
			-10	NV	-10.40	-0.0030	/	Pass
			0	NV	3.30	0.0009	/	Pass
			10	NV	-5.20	-0.0015	/	Pass
			20	NV	-11.20	-0.0032	/	Pass
			30	NV	-7.70	-0.0022	/	Pass
			40	NV	-9.30	-0.0027	/	Pass
			50	NV	-5.50	-0.0016	/	Pass
CP-OFDM 256 QAM	3500.01	Outer_Full	20	LV	5.40	0.0015	/	Pass
				HV	-8.50	-0.0024	/	Pass
			-30	NV	-15.70	-0.0045	/	Pass
			-20	NV	-6.70	-0.0019	/	Pass
			-10	NV	-8.70	-0.0025	/	Pass
			0	NV	2.50	0.0007	/	Pass
			10	NV	-12.10	-0.0035	/	Pass
			20	NV	-3.20	-0.0009	/	Pass
			30	NV	-27.50	-0.0079	/	Pass
			40	NV	2.00	0.0006	/	Pass
			50	NV	-2.70	-0.0008	/	Pass

2.3 30k_SISO_40MHz

2.3.1 Test Result

5G NR n78e 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	3500.01	Outer_Full	20	LV	1.30	0.0004	/	Pass
				HV	-5.40	-0.0015	/	Pass
			-30	NV	-12.30	-0.0035	/	Pass
			-20	NV	-10.70	-0.0031	/	Pass
			-10	NV	-8.10	-0.0023	/	Pass
			0	NV	-12.70	-0.0036	/	Pass
			10	NV	2.20	0.0006	/	Pass
			20	NV	-12.70	-0.0036	/	Pass
			30	NV	-15.90	-0.0045	/	Pass
			40	NV	-19.10	-0.0055	/	Pass
			50	NV	-6.10	-0.0017	/	Pass



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DFT-s-OFDM QPSK	3500.01	Outer_Full	20	LV	-4.00	-0.0011	/	Pass
				HV	-5.90	-0.0017	/	Pass
			-30	NV	-4.80	-0.0014	/	Pass
			-20	NV	-7.90	-0.0023	/	Pass
			-10	NV	-11.90	-0.0034	/	Pass
			0	NV	-17.70	-0.0051	/	Pass
			10	NV	-7.00	-0.0020	/	Pass
			20	NV	-9.30	-0.0027	/	Pass
			30	NV	-5.70	-0.0016	/	Pass
			40	NV	-17.70	-0.0051	/	Pass
DFT-s-OFDM 16 QAM	3500.01	Outer_Full	20	LV	-12.00	-0.0034	/	Pass
				HV	-15.40	-0.0044	/	Pass
			-30	NV	-11.70	-0.0033	/	Pass
			-20	NV	-10.00	-0.0029	/	Pass
			-10	NV	-9.60	-0.0027	/	Pass
			0	NV	-23.60	-0.0067	/	Pass
			10	NV	-2.40	-0.0007	/	Pass
			20	NV	-7.20	-0.0021	/	Pass
			30	NV	3.30	0.0009	/	Pass
			40	NV	-6.30	-0.0018	/	Pass
DFT-s-OFDM 64 QAM	3500.01	Outer_Full	20	LV	-17.20	-0.0049	/	Pass
				HV	-12.30	-0.0035	/	Pass
			-30	NV	-4.60	-0.0013	/	Pass
			-20	NV	-10.80	-0.0031	/	Pass
			-10	NV	-9.10	-0.0026	/	Pass
			0	NV	-16.20	-0.0046	/	Pass
			10	NV	-9.90	-0.0028	/	Pass
			20	NV	-10.60	-0.0030	/	Pass
			30	NV	-10.30	-0.0029	/	Pass
			40	NV	-7.10	-0.0020	/	Pass
DFT-s-OFDM 256 QAM	3500.01	Outer_Full	20	LV	-7.60	-0.0022	/	Pass
				HV	6.60	0.0019	/	Pass
			-30	NV	-7.40	-0.0021	/	Pass
			-20	NV	-16.60	-0.0047	/	Pass
			-10	NV	-10.50	-0.0030	/	Pass
			0	NV	-6.10	-0.0017	/	Pass
			10	NV	-10.70	-0.0031	/	Pass
			20	NV	-7.30	-0.0021	/	Pass
			30	NV	-18.80	-0.0054	/	Pass
			40	NV	4.00	0.0011	/	Pass
CP-OFDM QPSK	3500.01	Outer_Full	20	LV	-5.70	-0.0016	/	Pass
				HV	2.30	0.0007	/	Pass
			-30	NV	-2.20	-0.0006	/	Pass
			-20	NV	9.90	0.0028	/	Pass



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			-10	NV	-9.40	-0.0027	/	Pass
			0	NV	11.30	0.0032	/	Pass
			10	NV	-8.40	-0.0024	/	Pass
			20	NV	4.60	0.0013	/	Pass
			30	NV	-4.40	-0.0013	/	Pass
			40	NV	-15.50	-0.0044	/	Pass
			50	NV	-21.60	-0.0062	/	Pass
CP-OFDM 16 QAM	3500.01	Outer_Full	20	LV	-4.00	-0.0011	/	Pass
				HV	-20.60	-0.0059	/	Pass
			-30	NV	-14.50	-0.0041	/	Pass
			-20	NV	-18.40	-0.0053	/	Pass
			-10	NV	-11.80	-0.0034	/	Pass
			0	NV	2.10	0.0006	/	Pass
			10	NV	-5.30	-0.0015	/	Pass
			20	NV	-5.40	-0.0015	/	Pass
			30	NV	-3.40	-0.0010	/	Pass
			40	NV	-19.80	-0.0057	/	Pass
CP-OFDM 64 QAM	3500.01	Outer_Full	50	NV	-17.10	-0.0049	/	Pass
			20	LV	-11.00	-0.0031	/	Pass
				HV	-3.10	-0.0009	/	Pass
			-30	NV	-13.90	-0.0040	/	Pass
			-20	NV	-14.30	-0.0041	/	Pass
			-10	NV	-6.00	-0.0017	/	Pass
			0	NV	-3.60	-0.0010	/	Pass
			10	NV	-5.60	-0.0016	/	Pass
			20	NV	-17.20	-0.0049	/	Pass
			30	NV	-24.00	-0.0069	/	Pass
CP-OFDM 256 QAM	3500.01	Outer_Full	40	NV	-5.10	-0.0015	/	Pass
			50	NV	-9.80	-0.0028	/	Pass
			20	LV	-9.00	-0.0026	/	Pass
				HV	-14.40	-0.0041	/	Pass
			-30	NV	-6.20	-0.0018	/	Pass
			-20	NV	4.40	0.0013	/	Pass
			-10	NV	-12.20	-0.0035	/	Pass
			0	NV	-8.50	-0.0024	/	Pass
			10	NV	-10.50	-0.0030	/	Pass
			20	NV	-20.70	-0.0059	/	Pass
			30	NV	-14.80	-0.0042	/	Pass
			40	NV	2.90	0.0008	/	Pass
			50	NV	-6.40	-0.0018	/	Pass

2.4 30k_SISO_50MHz

2.4.1 Test Result

5G NR n78e SCS=30kHz SISO 50MHz



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Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	3500.01	Outer_Full	20	LV	-9.00	-0.0026	/	Pass
				HV	-7.00	-0.0020	/	Pass
			-30	NV	10.70	0.0031	/	Pass
			-20	NV	-13.20	-0.0038	/	Pass
			-10	NV	-3.80	-0.0011	/	Pass
			0	NV	-10.70	-0.0031	/	Pass
			10	NV	-8.10	-0.0023	/	Pass
			20	NV	-10.10	-0.0029	/	Pass
			30	NV	-8.30	-0.0024	/	Pass
			40	NV	-7.50	-0.0021	/	Pass
DFT-s-OFDM QPSK	3500.01	Outer_Full	20	LV	5.70	0.0016	/	Pass
				HV	-2.00	-0.0006	/	Pass
			-30	NV	-17.10	-0.0049	/	Pass
			-20	NV	-11.30	-0.0032	/	Pass
			-10	NV	-4.00	-0.0011	/	Pass
			0	NV	-19.20	-0.0055	/	Pass
			10	NV	2.80	0.0008	/	Pass
			20	NV	-8.90	-0.0025	/	Pass
			30	NV	-6.00	-0.0017	/	Pass
			40	NV	-14.40	-0.0041	/	Pass
DFT-s-OFDM 16 QAM	3500.01	Outer_Full	20	LV	-14.20	-0.0041	/	Pass
				HV	11.90	0.0034	/	Pass
			-30	NV	-8.40	-0.0024	/	Pass
			-20	NV	-2.90	-0.0008	/	Pass
			-10	NV	-4.80	-0.0014	/	Pass
			0	NV	-10.50	-0.0030	/	Pass
			10	NV	-2.20	-0.0006	/	Pass
			20	NV	-10.40	-0.0030	/	Pass
			30	NV	-8.70	-0.0025	/	Pass
			40	NV	-2.10	-0.0006	/	Pass
DFT-s-OFDM 64 QAM	3500.01	Outer_Full	20	LV	-12.50	-0.0036	/	Pass
				HV	-9.60	-0.0027	/	Pass
			-30	NV	1.70	0.0005	/	Pass
			-20	NV	3.30	0.0009	/	Pass
			-10	NV	-9.70	-0.0028	/	Pass
			0	NV	-4.60	-0.0013	/	Pass
			10	NV	4.10	0.0012	/	Pass
			20	NV	-8.10	-0.0023	/	Pass
			30	NV	-14.90	-0.0043	/	Pass
			40	NV	-9.60	-0.0027	/	Pass
DFT-s-OFDM 256 QAM	3500.01	Outer_Full	20	NV	-9.90	-0.0028	/	Pass
				LV	-6.10	-0.0017	/	Pass
				HV	-11.00	-0.0031	/	Pass



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			-30	NV	-3.20	-0.0009	/	Pass
			-20	NV	-14.30	-0.0041	/	Pass
			-10	NV	-6.10	-0.0017	/	Pass
			0	NV	7.20	0.0021	/	Pass
			10	NV	-7.60	-0.0022	/	Pass
			20	NV	10.90	0.0031	/	Pass
			30	NV	5.40	0.0015	/	Pass
			40	NV	-7.30	-0.0021	/	Pass
			50	NV	-15.80	-0.0045	/	Pass
CP-OFDM QPSK	3500.01	Outer_Full	20	LV	-10.30	-0.0029	/	Pass
				HV	4.00	0.0011	/	Pass
			-30	NV	-7.40	-0.0021	/	Pass
			-20	NV	-3.60	-0.0010	/	Pass
			-10	NV	-5.90	-0.0017	/	Pass
			0	NV	-9.40	-0.0027	/	Pass
			10	NV	-10.40	-0.0030	/	Pass
			20	NV	-11.20	-0.0032	/	Pass
			30	NV	-3.80	-0.0011	/	Pass
CP-OFDM 16 QAM	3500.01	Outer_Full	40	NV	7.10	0.0020	/	Pass
			50	NV	-3.60	-0.0010	/	Pass
			20	LV	-9.00	-0.0026	/	Pass
				HV	-7.50	-0.0021	/	Pass
			-30	NV	-3.70	-0.0011	/	Pass
			-20	NV	-6.70	-0.0019	/	Pass
			-10	NV	-13.30	-0.0038	/	Pass
			0	NV	-12.00	-0.0034	/	Pass
			10	NV	-10.60	-0.0030	/	Pass
CP-OFDM 64 QAM	3500.01	Outer_Full	20	NV	-4.00	-0.0011	/	Pass
			30	NV	-10.00	-0.0029	/	Pass
			40	NV	-11.20	-0.0032	/	Pass
			50	NV	-8.80	-0.0025	/	Pass
			20	LV	-4.80	-0.0014	/	Pass
				HV	5.50	0.0016	/	Pass
			-30	NV	-3.40	-0.0010	/	Pass
			-20	NV	-8.40	-0.0024	/	Pass
			-10	NV	11.10	0.0032	/	Pass
CP-OFDM 256 QAM	3500.01	Outer_Full	0	NV	-7.20	-0.0021	/	Pass
			10	NV	-4.30	-0.0012	/	Pass
			20	NV	-2.30	-0.0007	/	Pass
			30	NV	1.50	0.0004	/	Pass
			40	NV	-3.40	-0.0010	/	Pass
			50	NV	-12.80	-0.0037	/	Pass
			20	LV	-3.40	-0.0010	/	Pass
				HV	-6.80	-0.0019	/	Pass
			-30	NV	-4.50	-0.0013	/	Pass
			-20	NV	-2.00	-0.0006	/	Pass
			-10	NV	-10.70	-0.0031	/	Pass
			0	NV	-13.60	-0.0039	/	Pass



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			10	NV	3.30	0.0009	/	Pass
			20	NV	-15.20	-0.0043	/	Pass
			30	NV	-8.80	-0.0025	/	Pass
			40	NV	-6.40	-0.0018	/	Pass
			50	NV	-11.50	-0.0033	/	Pass

2.5 30k_SISO_60MHz

2.5.1 Test Result

5G NR n78e SCS=30kHz SISO 60MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	3500.01	Outer_Full	20	LV	-4.10	-0.0012	/	Pass
				HV	5.80	0.0017	/	Pass
			-30	NV	-2.30	-0.0007	/	Pass
			-20	NV	-5.40	-0.0015	/	Pass
			-10	NV	-11.10	-0.0032	/	Pass
			0	NV	1.70	0.0005	/	Pass
			10	NV	-10.80	-0.0031	/	Pass
			20	NV	-4.80	-0.0014	/	Pass
			30	NV	10.50	0.0030	/	Pass
			40	NV	-11.20	-0.0032	/	Pass
DFT-s-OFDM QPSK	3500.01	Outer_Full	20	LV	9.50	0.0027	/	Pass
				HV	14.80	0.0042	/	Pass
			-30	NV	6.70	0.0019	/	Pass
			-20	NV	-10.40	-0.0030	/	Pass
			-10	NV	-6.70	-0.0019	/	Pass
			0	NV	-1.50	-0.0004	/	Pass
			10	NV	-7.30	-0.0021	/	Pass
			20	NV	-6.40	-0.0018	/	Pass
			30	NV	-4.80	-0.0014	/	Pass
			40	NV	-9.20	-0.0026	/	Pass
DFT-s-OFDM 16 QAM	3500.01	Outer_Full	20	LV	-9.70	-0.0028	/	Pass
				HV	-5.10	-0.0015	/	Pass
			-30	NV	-5.70	-0.0016	/	Pass
			-20	NV	6.20	0.0018	/	Pass
			-10	NV	-7.30	-0.0021	/	Pass
			0	NV	13.70	0.0039	/	Pass
			10	NV	-1.60	-0.0005	/	Pass
			20	NV	6.20	0.0018	/	Pass
			30	NV	-7.70	-0.0022	/	Pass
			40	NV	-10.40	-0.0030	/	Pass
			50	NV	-14.20	-0.0041	/	Pass



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DFT-s-OFDM 64 QAM	3500.01	Outer_Full	20	LV	14.80	0.0042	/	Pass
				HV	8.60	0.0025	/	Pass
			-30	NV	-11.80	-0.0034	/	Pass
			-20	NV	-3.30	-0.0009	/	Pass
			-10	NV	-16.50	-0.0047	/	Pass
			0	NV	10.20	0.0029	/	Pass
			10	NV	-7.10	-0.0020	/	Pass
			20	NV	5.90	0.0017	/	Pass
			30	NV	-12.90	-0.0037	/	Pass
			40	NV	-3.50	-0.0010	/	Pass
DFT-s-OFDM 256 QAM	3500.01	Outer_Full	20	LV	-10.80	-0.0031	/	Pass
				HV	6.00	0.0017	/	Pass
			-30	NV	5.30	0.0015	/	Pass
			-20	NV	5.00	0.0014	/	Pass
			-10	NV	8.50	0.0024	/	Pass
			0	NV	-7.30	-0.0021	/	Pass
			10	NV	-3.50	-0.0010	/	Pass
			20	NV	-14.00	-0.0040	/	Pass
			30	NV	7.60	0.0022	/	Pass
			40	NV	-5.10	-0.0015	/	Pass
CP-OFDM QPSK	3500.01	Outer_Full	20	LV	5.50	0.0016	/	Pass
				HV	9.50	0.0027	/	Pass
			-30	NV	-4.40	-0.0013	/	Pass
			-20	NV	-8.40	-0.0024	/	Pass
			-10	NV	-17.90	-0.0051	/	Pass
			0	NV	-1.60	-0.0005	/	Pass
			10	NV	-7.10	-0.0020	/	Pass
			20	NV	-19.10	-0.0055	/	Pass
			30	NV	-8.10	-0.0023	/	Pass
			40	NV	-4.30	-0.0012	/	Pass
CP-OFDM 16 QAM	3500.01	Outer_Full	20	LV	-9.00	-0.0026	/	Pass
				HV	2.90	0.0008	/	Pass
			-30	NV	-3.20	-0.0009	/	Pass
			-20	NV	-8.70	-0.0025	/	Pass
			-10	NV	-13.40	-0.0038	/	Pass
			0	NV	-5.50	-0.0016	/	Pass
			10	NV	-12.40	-0.0035	/	Pass
			20	NV	5.80	0.0017	/	Pass
			30	NV	-5.60	-0.0016	/	Pass
			40	NV	1.80	0.0005	/	Pass
CP-OFDM 64 QAM	3500.01	Outer_Full	20	LV	-0.20	-0.0001	/	Pass
				HV	-2.00	-0.0006	/	Pass
			-30	NV	-13.00	-0.0037	/	Pass
			-20	NV	-16.50	-0.0047	/	Pass



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			-10	NV	4.10	0.0012	/	Pass
			0	NV	3.00	0.0009	/	Pass
			10	NV	-6.30	-0.0018	/	Pass
			20	NV	7.40	0.0021	/	Pass
			30	NV	10.00	0.0029	/	Pass
			40	NV	-2.00	-0.0006	/	Pass
			50	NV	7.20	0.0021	/	Pass
CP-OFDM 256 QAM	3500.01	Outer_Full	20	LV	6.30	0.0018	/	Pass
				HV	-3.40	-0.0010	/	Pass
			-30	NV	10.20	0.0029	/	Pass
			-20	NV	-6.30	-0.0018	/	Pass
			-10	NV	-4.20	-0.0012	/	Pass
			0	NV	-2.50	-0.0007	/	Pass
			10	NV	-3.70	-0.0011	/	Pass
			20	NV	6.90	0.0020	/	Pass
			30	NV	11.40	0.0033	/	Pass
			40	NV	-18.80	-0.0054	/	Pass
			50	NV	-11.50	-0.0033	/	Pass

2.6 30k_SISO_70MHz

2.6.1 Test Result

5G NR n78e SCS=30kHz SISO 70MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	3500.01	Outer_Full	20	LV	-2.50	-0.0007	/	Pass
				HV	-14.70	-0.0042	/	Pass
			-30	NV	2.00	0.0006	/	Pass
			-20	NV	-5.20	-0.0015	/	Pass
			-10	NV	-3.60	-0.0010	/	Pass
			0	NV	-19.90	-0.0057	/	Pass
			10	NV	-6.40	-0.0018	/	Pass
			20	NV	-8.40	-0.0024	/	Pass
			30	NV	-9.50	-0.0027	/	Pass
			40	NV	-18.80	-0.0054	/	Pass
DFT-s-OFDM QPSK	3500.01	Outer_Full	50	NV	-10.00	-0.0029	/	Pass
			20	LV	-5.20	-0.0015	/	Pass
				HV	-6.70	-0.0019	/	Pass
			-30	NV	-11.60	-0.0033	/	Pass
			-20	NV	-3.80	-0.0011	/	Pass
			-10	NV	-13.70	-0.0039	/	Pass
			0	NV	-10.00	-0.0029	/	Pass
			10	NV	-1.50	-0.0004	/	Pass
			20	NV	-2.90	-0.0008	/	Pass
			30	NV	-2.00	-0.0006	/	Pass



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DFT-s-OFDM 16 QAM	3500.01	Outer_Full	40	NV	-8.00	-0.0023	/	Pass
			50	NV	-14.60	-0.0042	/	Pass
			20	LV	-8.60	-0.0025	/	Pass
				HV	-5.20	-0.0015	/	Pass
			-30	NV	-9.60	-0.0027	/	Pass
			-20	NV	4.80	0.0014	/	Pass
			-10	NV	-7.30	-0.0021	/	Pass
			0	NV	7.30	0.0021	/	Pass
			10	NV	7.00	0.0020	/	Pass
			20	NV	-13.80	-0.0039	/	Pass
			30	NV	-3.20	-0.0009	/	Pass
			40	NV	-5.70	-0.0016	/	Pass
			50	NV	6.10	0.0017	/	Pass
DFT-s-OFDM 64 QAM	3500.01	Outer_Full	20	LV	5.30	0.0015	/	Pass
				HV	-3.20	-0.0009	/	Pass
			-30	NV	-3.00	-0.0009	/	Pass
			-20	NV	-10.60	-0.0030	/	Pass
			-10	NV	-2.50	-0.0007	/	Pass
			0	NV	8.20	0.0023	/	Pass
			10	NV	-7.10	-0.0020	/	Pass
			20	NV	-2.70	-0.0008	/	Pass
			30	NV	-13.90	-0.0040	/	Pass
			40	NV	-14.70	-0.0042	/	Pass
			50	NV	-22.30	-0.0064	/	Pass
DFT-s-OFDM 256 QAM	3500.01	Outer_Full	20	LV	-5.40	-0.0015	/	Pass
				HV	-4.20	-0.0012	/	Pass
			-30	NV	3.00	0.0009	/	Pass
			-20	NV	-4.60	-0.0013	/	Pass
			-10	NV	-9.30	-0.0027	/	Pass
			0	NV	-2.70	-0.0008	/	Pass
			10	NV	-3.10	-0.0009	/	Pass
			20	NV	4.70	0.0013	/	Pass
			30	NV	-10.50	-0.0030	/	Pass
			40	NV	-7.20	-0.0021	/	Pass
			50	NV	-9.10	-0.0026	/	Pass
CP-OFDM QPSK	3500.01	Outer_Full	20	LV	-8.00	-0.0023	/	Pass
				HV	-16.50	-0.0047	/	Pass
			-30	NV	-12.50	-0.0036	/	Pass
			-20	NV	-1.10	-0.0003	/	Pass
			-10	NV	-9.90	-0.0028	/	Pass
			0	NV	5.40	0.0015	/	Pass
			10	NV	-9.00	-0.0026	/	Pass
			20	NV	-11.90	-0.0034	/	Pass
			30	NV	8.00	0.0023	/	Pass
			40	NV	-10.20	-0.0029	/	Pass
			50	NV	-8.60	-0.0025	/	Pass
CP-OFDM 16 QAM	3500.01	Outer_Full	20	LV	-3.90	-0.0011	/	Pass
				HV	-10.00	-0.0029	/	Pass



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			-30	NV	-5.20	-0.0015	/	Pass
			-20	NV	-9.40	-0.0027	/	Pass
			-10	NV	-3.60	-0.0010	/	Pass
			0	NV	-12.90	-0.0037	/	Pass
			10	NV	-5.90	-0.0017	/	Pass
			20	NV	-4.60	-0.0013	/	Pass
			30	NV	-7.20	-0.0021	/	Pass
			40	NV	-9.50	-0.0027	/	Pass
			50	NV	-11.10	-0.0032	/	Pass
CP-OFDM 64 QAM	3500.01	Outer_Full	20	LV	-5.30	-0.0015	/	Pass
				HV	-11.30	-0.0032	/	Pass
			-30	NV	-3.90	-0.0011	/	Pass
			-20	NV	-6.70	-0.0019	/	Pass
			-10	NV	-12.00	-0.0034	/	Pass
			0	NV	4.20	0.0012	/	Pass
			10	NV	-11.20	-0.0032	/	Pass
			20	NV	-4.70	-0.0013	/	Pass
			30	NV	-4.00	-0.0011	/	Pass
CP-OFDM 256 QAM	3500.01	Outer_Full	40	NV	-8.00	-0.0023	/	Pass
			50	NV	-5.30	-0.0015	/	Pass
			20	LV	-8.90	-0.0025	/	Pass
				HV	-6.40	-0.0018	/	Pass
			-30	NV	-9.20	-0.0026	/	Pass
			-20	NV	-4.90	-0.0014	/	Pass
			-10	NV	-1.40	-0.0004	/	Pass
			0	NV	-17.70	-0.0051	/	Pass
			10	NV	-12.80	-0.0037	/	Pass
			20	NV	2.10	0.0006	/	Pass
			30	NV	-3.00	-0.0009	/	Pass
			40	NV	-11.60	-0.0033	/	Pass
			50	NV	-7.30	-0.0021	/	Pass

2.7 30k_SISO_80MHz

2.7.1 Test Result

5G NR n78e 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	3500.01	Outer_Full	20	LV	-5.40	-0.0015	/	Pass
				HV	-11.40	-0.0033	/	Pass
			-30	NV	-18.80	-0.0054	/	Pass
			-20	NV	-9.10	-0.0026	/	Pass
			-10	NV	-6.00	-0.0017	/	Pass
			0	NV	-5.60	-0.0016	/	Pass
			10	NV	-20.20	-0.0058	/	Pass



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			20	NV	3.00	0.0009	/	Pass
			30	NV	-12.70	-0.0036	/	Pass
			40	NV	5.30	0.0015	/	Pass
			50	NV	-11.10	-0.0032	/	Pass
DFT-s-OFDM QPSK	3500.01	Outer_Full	20	LV	-11.10	-0.0032	/	Pass
				HV	-15.80	-0.0045	/	Pass
			-30	NV	-9.10	-0.0026	/	Pass
			-20	NV	-5.20	-0.0015	/	Pass
			-10	NV	-8.90	-0.0025	/	Pass
			0	NV	1.60	0.0005	/	Pass
			10	NV	-6.10	-0.0017	/	Pass
			20	NV	-7.60	-0.0022	/	Pass
			30	NV	-9.10	-0.0026	/	Pass
			40	NV	-12.20	-0.0035	/	Pass
			50	NV	-10.00	-0.0029	/	Pass
DFT-s-OFDM 16 QAM	3500.01	Outer_Full	20	LV	-5.10	-0.0015	/	Pass
				HV	-10.10	-0.0029	/	Pass
			-30	NV	-8.70	-0.0025	/	Pass
			-20	NV	-4.90	-0.0014	/	Pass
			-10	NV	-7.40	-0.0021	/	Pass
			0	NV	-12.20	-0.0035	/	Pass
			10	NV	-7.30	-0.0021	/	Pass
			20	NV	11.10	0.0032	/	Pass
			30	NV	-1.20	-0.0003	/	Pass
			40	NV	-12.10	-0.0035	/	Pass
			50	NV	-9.40	-0.0027	/	Pass
DFT-s-OFDM 64 QAM	3500.01	Outer_Full	20	LV	-3.40	-0.0010	/	Pass
				HV	-5.20	-0.0015	/	Pass
			-30	NV	-12.30	-0.0035	/	Pass
			-20	NV	-7.50	-0.0021	/	Pass
			-10	NV	-14.70	-0.0042	/	Pass
			0	NV	2.50	0.0007	/	Pass
			10	NV	-6.40	-0.0018	/	Pass
			20	NV	-12.50	-0.0036	/	Pass
			30	NV	-16.20	-0.0046	/	Pass
			40	NV	-12.60	-0.0036	/	Pass
			50	NV	5.60	0.0016	/	Pass
DFT-s-OFDM 256 QAM	3500.01	Outer_Full	20	LV	4.20	0.0012	/	Pass
				HV	-4.10	-0.0012	/	Pass
			-30	NV	5.10	0.0015	/	Pass
			-20	NV	-4.50	-0.0013	/	Pass
			-10	NV	-10.50	-0.0030	/	Pass
			0	NV	-3.80	-0.0011	/	Pass
			10	NV	-14.50	-0.0041	/	Pass
			20	NV	1.00	0.0003	/	Pass
			30	NV	-5.70	-0.0016	/	Pass
			40	NV	-6.00	-0.0017	/	Pass
			50	NV	-6.00	-0.0017	/	Pass



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CP-OFDM QPSK	3500.01	Outer_Full	20	LV	3.40	0.0010	/	Pass
				HV	-10.10	-0.0029	/	Pass
			-30	NV	0.90	0.0003	/	Pass
			-20	NV	-8.10	-0.0023	/	Pass
			-10	NV	-12.00	-0.0034	/	Pass
			0	NV	5.00	0.0014	/	Pass
			10	NV	-11.80	-0.0034	/	Pass
			20	NV	-9.50	-0.0027	/	Pass
			30	NV	-3.80	-0.0011	/	Pass
			40	NV	-10.60	-0.0030	/	Pass
CP-OFDM 16 QAM	3500.01	Outer_Full	20	LV	-14.80	-0.0042	/	Pass
				HV	5.40	0.0015	/	Pass
			-30	NV	-5.20	-0.0015	/	Pass
			-20	NV	-1.50	-0.0004	/	Pass
			-10	NV	5.70	0.0016	/	Pass
			0	NV	-19.10	-0.0055	/	Pass
			10	NV	3.40	0.0010	/	Pass
			20	NV	-3.80	-0.0011	/	Pass
			30	NV	-7.30	-0.0021	/	Pass
			40	NV	-16.90	-0.0048	/	Pass
CP-OFDM 64 QAM	3500.01	Outer_Full	20	LV	-7.70	-0.0022	/	Pass
				HV	-8.40	-0.0024	/	Pass
			-30	NV	-7.70	-0.0022	/	Pass
			-20	NV	-5.60	-0.0016	/	Pass
			-10	NV	-14.30	-0.0041	/	Pass
			0	NV	-7.30	-0.0021	/	Pass
			10	NV	-12.00	-0.0034	/	Pass
			20	NV	-11.20	-0.0032	/	Pass
			30	NV	-4.80	-0.0014	/	Pass
			40	NV	-9.40	-0.0027	/	Pass
CP-OFDM 256 QAM	3500.01	Outer_Full	20	LV	5.90	0.0017	/	Pass
				HV	-6.10	-0.0017	/	Pass
			-30	NV	-6.00	-0.0017	/	Pass
			-20	NV	2.50	0.0007	/	Pass
			-10	NV	-10.50	-0.0030	/	Pass
			0	NV	-14.10	-0.0040	/	Pass
			10	NV	-24.30	-0.0069	/	Pass
			20	NV	-7.70	-0.0022	/	Pass
			30	NV	-11.20	-0.0032	/	Pass
			40	NV	-6.60	-0.0019	/	Pass
CP-OFDM 256 QAM	3500.01	Outer_Full	50	NV	-10.10	-0.0029	/	Pass
				NV	-10.10	-0.0029	/	Pass
			50	NV	-10.10	-0.0029	/	Pass
				NV	-10.10	-0.0029	/	Pass
			50	NV	-10.10	-0.0029	/	Pass
				NV	-10.10	-0.0029	/	Pass
			50	NV	-10.10	-0.0029	/	Pass
				NV	-10.10	-0.0029	/	Pass
			50	NV	-10.10	-0.0029	/	Pass
				NV	-10.10	-0.0029	/	Pass

2.8 30k_SISO_90MHz



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2.8.1 Test Result

5G NR n78e 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	3500.01	Outer_Full	20	LV	-11.70	-0.0033	/	Pass
				HV	-9.90	-0.0028	/	Pass
			-30	NV	-4.80	-0.0014	/	Pass
			-20	NV	-12.50	-0.0036	/	Pass
			-10	NV	8.60	0.0025	/	Pass
			0	NV	-3.20	-0.0009	/	Pass
			10	NV	-4.10	-0.0012	/	Pass
			20	NV	-12.00	-0.0034	/	Pass
			30	NV	2.50	0.0007	/	Pass
			40	NV	-10.60	-0.0030	/	Pass
			50	NV	-8.00	-0.0023	/	Pass
DFT-s-OFDM QPSK	3500.01	Outer_Full	20	LV	-4.00	-0.0011	/	Pass
				HV	-10.80	-0.0031	/	Pass
			-30	NV	-15.30	-0.0044	/	Pass
			-20	NV	-5.50	-0.0016	/	Pass
			-10	NV	-11.70	-0.0033	/	Pass
			0	NV	-8.20	-0.0023	/	Pass
			10	NV	-9.60	-0.0027	/	Pass
			20	NV	-19.20	-0.0055	/	Pass
			30	NV	-8.60	-0.0025	/	Pass
			40	NV	-4.20	-0.0012	/	Pass
			50	NV	4.40	0.0013	/	Pass
DFT-s-OFDM 16 QAM	3500.01	Outer_Full	20	LV	-15.30	-0.0044	/	Pass
				HV	-9.50	-0.0027	/	Pass
			-30	NV	-2.60	-0.0007	/	Pass
			-20	NV	-9.20	-0.0026	/	Pass
			-10	NV	8.10	0.0023	/	Pass
			0	NV	-14.40	-0.0041	/	Pass
			10	NV	-9.40	-0.0027	/	Pass
			20	NV	10.30	0.0029	/	Pass
			30	NV	-11.40	-0.0033	/	Pass
			40	NV	-3.10	-0.0009	/	Pass
			50	NV	-6.80	-0.0019	/	Pass
DFT-s-OFDM 64 QAM	3500.01	Outer_Full	20	LV	10.40	0.0030	/	Pass
				HV	9.70	0.0028	/	Pass
			-30	NV	-11.00	-0.0031	/	Pass
			-20	NV	9.00	0.0026	/	Pass
			-10	NV	-13.20	-0.0038	/	Pass
			0	NV	5.60	0.0016	/	Pass
			10	NV	-17.70	-0.0051	/	Pass
			20	NV	13.10	0.0037	/	Pass
			30	NV	-5.40	-0.0015	/	Pass
			40	NV	-16.30	-0.0047	/	Pass



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DFT-s-OFDM 256 QAM	3500.01	Outer_Full	50	NV	-3.80	-0.0011	/	Pass
			20	LV	3.60	0.0010	/	Pass
				HV	-18.60	-0.0053	/	Pass
			-30	NV	11.70	0.0033	/	Pass
			-20	NV	3.50	0.0010	/	Pass
			-10	NV	-18.10	-0.0052	/	Pass
			0	NV	-15.60	-0.0045	/	Pass
			10	NV	-10.10	-0.0029	/	Pass
			20	NV	6.20	0.0018	/	Pass
			30	NV	-4.00	-0.0011	/	Pass
			40	NV	10.80	0.0031	/	Pass
			50	NV	-2.30	-0.0007	/	Pass
CP-OFDM QPSK	3500.01	Outer_Full	20	LV	-12.10	-0.0035	/	Pass
				HV	-17.00	-0.0049	/	Pass
			-30	NV	-6.50	-0.0019	/	Pass
			-20	NV	-11.80	-0.0034	/	Pass
			-10	NV	-7.90	-0.0023	/	Pass
			0	NV	-1.30	-0.0004	/	Pass
			10	NV	-3.00	-0.0009	/	Pass
			20	NV	5.20	0.0015	/	Pass
			30	NV	7.60	0.0022	/	Pass
			40	NV	-12.30	-0.0035	/	Pass
			50	NV	-5.50	-0.0016	/	Pass
CP-OFDM 16 QAM	3500.01	Outer_Full	20	LV	-12.00	-0.0034	/	Pass
				HV	-3.00	-0.0009	/	Pass
			-30	NV	-5.20	-0.0015	/	Pass
			-20	NV	3.30	0.0009	/	Pass
			-10	NV	-4.20	-0.0012	/	Pass
			0	NV	-14.90	-0.0043	/	Pass
			10	NV	-7.90	-0.0023	/	Pass
			20	NV	-2.30	-0.0007	/	Pass
			30	NV	-1.90	-0.0005	/	Pass
			40	NV	8.60	0.0025	/	Pass
			50	NV	7.30	0.0021	/	Pass
CP-OFDM 64 QAM	3500.01	Outer_Full	20	LV	-1.50	-0.0004	/	Pass
				HV	-3.20	-0.0009	/	Pass
			-30	NV	-7.70	-0.0022	/	Pass
			-20	NV	3.30	0.0009	/	Pass
			-10	NV	5.80	0.0017	/	Pass
			0	NV	-15.30	-0.0044	/	Pass
			10	NV	-11.40	-0.0033	/	Pass
			20	NV	-8.40	-0.0024	/	Pass
			30	NV	-6.80	-0.0019	/	Pass
			40	NV	6.10	0.0017	/	Pass
			50	NV	-16.30	-0.0047	/	Pass
CP-OFDM 256 QAM	3500.01	Outer_Full	20	LV	8.80	0.0025	/	Pass
				HV	-5.90	-0.0017	/	Pass
			-30	NV	-5.20	-0.0015	/	Pass



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			-20	NV	-11.40	-0.0033	/	Pass
			-10	NV	-1.30	-0.0004	/	Pass
			0	NV	4.40	0.0013	/	Pass
			10	NV	-4.20	-0.0012	/	Pass
			20	NV	-5.90	-0.0017	/	Pass
			30	NV	-3.40	-0.0010	/	Pass
			40	NV	-4.50	-0.0013	/	Pass
			50	NV	-4.00	-0.0011	/	Pass

2.9 30k_SISO_100MHz

2.9.1 Test Result

5G NR n78e 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	3500.01	Outer_Full	20	LV	9.60	0.0027	/	Pass
				HV	7.50	0.0021	/	Pass
			-30	NV	4.40	0.0013	/	Pass
			-20	NV	-9.00	-0.0026	/	Pass
			-10	NV	-7.20	-0.0021	/	Pass
			0	NV	-9.90	-0.0028	/	Pass
			10	NV	-18.10	-0.0052	/	Pass
			20	NV	-3.50	-0.0010	/	Pass
			30	NV	4.70	0.0013	/	Pass
			40	NV	2.40	0.0007	/	Pass
			50	NV	-6.60	-0.0019	/	Pass
DFT-s-OFDM QPSK	3500.01	Outer_Full	20	LV	-18.50	-0.0053	/	Pass
				HV	-6.30	-0.0018	/	Pass
			-30	NV	-15.40	-0.0044	/	Pass
			-20	NV	-8.70	-0.0025	/	Pass
			-10	NV	2.60	0.0007	/	Pass
			0	NV	-16.30	-0.0047	/	Pass
			10	NV	-7.40	-0.0021	/	Pass
			20	NV	-3.60	-0.0010	/	Pass
			30	NV	12.20	0.0035	/	Pass
			40	NV	-8.00	-0.0023	/	Pass
			50	NV	1.40	0.0004	/	Pass
DFT-s-OFDM 16 QAM	3500.01	Outer_Full	20	LV	-9.20	-0.0026	/	Pass
				HV	2.70	0.0008	/	Pass
			-30	NV	-5.70	-0.0016	/	Pass
			-20	NV	-6.90	-0.0020	/	Pass
			-10	NV	3.40	0.0010	/	Pass
			0	NV	-13.40	-0.0038	/	Pass
			10	NV	2.00	0.0006	/	Pass
			20	NV	-12.80	-0.0037	/	Pass



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			30	NV	-2.50	-0.0007	/	Pass
			40	NV	-10.00	-0.0029	/	Pass
			50	NV	4.30	0.0012	/	Pass
DFT-s-OFDM 64 QAM	3500.01	Outer_Full	20	LV	-5.20	-0.0015	/	Pass
				HV	2.80	0.0008	/	Pass
			-30	NV	-7.50	-0.0021	/	Pass
			-20	NV	-9.10	-0.0026	/	Pass
			-10	NV	-7.40	-0.0021	/	Pass
			0	NV	-3.30	-0.0009	/	Pass
			10	NV	-11.50	-0.0033	/	Pass
			20	NV	-16.60	-0.0047	/	Pass
			30	NV	-3.30	-0.0009	/	Pass
			40	NV	-7.10	-0.0020	/	Pass
			50	NV	-5.20	-0.0015	/	Pass
DFT-s-OFDM 256 QAM	3500.01	Outer_Full	20	LV	-9.80	-0.0028	/	Pass
				HV	-13.80	-0.0039	/	Pass
			-30	NV	8.40	0.0024	/	Pass
			-20	NV	-9.50	-0.0027	/	Pass
			-10	NV	-4.50	-0.0013	/	Pass
			0	NV	-10.70	-0.0031	/	Pass
			10	NV	6.00	0.0017	/	Pass
			20	NV	-7.90	-0.0023	/	Pass
			30	NV	8.80	0.0025	/	Pass
			40	NV	3.50	0.0010	/	Pass
			50	NV	-2.30	-0.0007	/	Pass
CP-OFDM QPSK	3500.01	Outer_Full	20	LV	8.20	0.0023	/	Pass
				HV	0.50	0.0001	/	Pass
			-30	NV	-15.30	-0.0044	/	Pass
			-20	NV	4.80	0.0014	/	Pass
			-10	NV	-6.50	-0.0019	/	Pass
			0	NV	-9.20	-0.0026	/	Pass
			10	NV	7.40	0.0021	/	Pass
			20	NV	-5.50	-0.0016	/	Pass
			30	NV	-3.20	-0.0009	/	Pass
			40	NV	-4.50	-0.0013	/	Pass
			50	NV	-3.10	-0.0009	/	Pass
CP-OFDM 16 QAM	3500.01	Outer_Full	20	LV	4.10	0.0012	/	Pass
				HV	-3.90	-0.0011	/	Pass
			-30	NV	-5.10	-0.0015	/	Pass
			-20	NV	10.90	0.0031	/	Pass
			-10	NV	-6.60	-0.0019	/	Pass
			0	NV	-1.90	-0.0005	/	Pass
			10	NV	-3.30	-0.0009	/	Pass
			20	NV	-6.50	-0.0019	/	Pass
			30	NV	9.10	0.0026	/	Pass
			40	NV	3.00	0.0009	/	Pass
			50	NV	-14.70	-0.0042	/	Pass
CP-OFDM 64 QAM	3500.01	Outer_Full	20	LV	1.80	0.0005	/	Pass



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				HV	2.20	0.0006	/	Pass
			-30	NV	4.70	0.0013	/	Pass
			-20	NV	-4.30	-0.0012	/	Pass
			-10	NV	12.50	0.0036	/	Pass
			0	NV	-17.80	-0.0051	/	Pass
			10	NV	-2.40	-0.0007	/	Pass
			20	NV	-11.60	-0.0033	/	Pass
			30	NV	-2.20	-0.0006	/	Pass
			40	NV	-7.90	-0.0023	/	Pass
			50	NV	4.90	0.0014	/	Pass
CP-OFDM 256 QAM	3500.01	Outer_Full	20	LV	-9.30	-0.0027	/	Pass
				HV	-7.40	-0.0021	/	Pass
			-30	NV	-1.40	-0.0004	/	Pass
			-20	NV	1.80	0.0005	/	Pass
			-10	NV	-3.10	-0.0009	/	Pass
			0	NV	4.80	0.0014	/	Pass
			10	NV	-19.20	-0.0055	/	Pass
			20	NV	-8.60	-0.0025	/	Pass
			30	NV	-7.40	-0.0021	/	Pass
			40	NV	6.00	0.0017	/	Pass
			50	NV	6.60	0.0019	/	Pass



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3. 99% & 26dB Bandwidth

3.1 30k_SISO_20MHz_NTNV

3.1.1 Test Result

5G NR n78e 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	3460.02	Outer_Full	18.14	19.82	/	Pass
	3500.01	Outer_Full	18.15	19.72	/	Pass
	3540	Outer_Full	18.14	19.60	/	Pass
DFT-s-OFDM QPSK	3460.02	Outer_Full	18.12	19.85	/	Pass
	3500.01	Outer_Full	18.15	19.80	/	Pass
	3540	Outer_Full	18.08	19.43	/	Pass
DFT-s-OFDM 16 QAM	3460.02	Outer_Full	18.10	19.54	/	Pass
	3500.01	Outer_Full	18.07	19.79	/	Pass
	3540	Outer_Full	18.12	19.67	/	Pass
DFT-s-OFDM 64 QAM	3460.02	Outer_Full	18.08	19.73	/	Pass
	3500.01	Outer_Full	18.12	19.88	/	Pass
	3540	Outer_Full	18.11	19.65	/	Pass
DFT-s-OFDM 256 QAM	3460.02	Outer_Full	18.04	19.49	/	Pass
	3500.01	Outer_Full	18.08	19.78	/	Pass
	3540	Outer_Full	18.03	19.79	/	Pass
CP-OFDM QPSK	3460.02	Outer_Full	18.36	20.03	/	Pass
	3500.01	Outer_Full	18.37	19.98	/	Pass
	3540	Outer_Full	18.38	20.02	/	Pass
CP-OFDM 16 QAM	3460.02	Outer_Full	18.39	19.99	/	Pass
	3500.01	Outer_Full	18.44	20.03	/	Pass
	3540	Outer_Full	18.45	20.16	/	Pass
CP-OFDM 64 QAM	3460.02	Outer_Full	18.40	20.11	/	Pass
	3500.01	Outer_Full	18.35	20.04	/	Pass
	3540	Outer_Full	18.37	20.12	/	Pass
CP-OFDM 256 QAM	3460.02	Outer_Full	18.34	20.07	/	Pass
	3500.01	Outer_Full	18.36	20.13	/	Pass
	3540	Outer_Full	18.35	20.06	/	Pass



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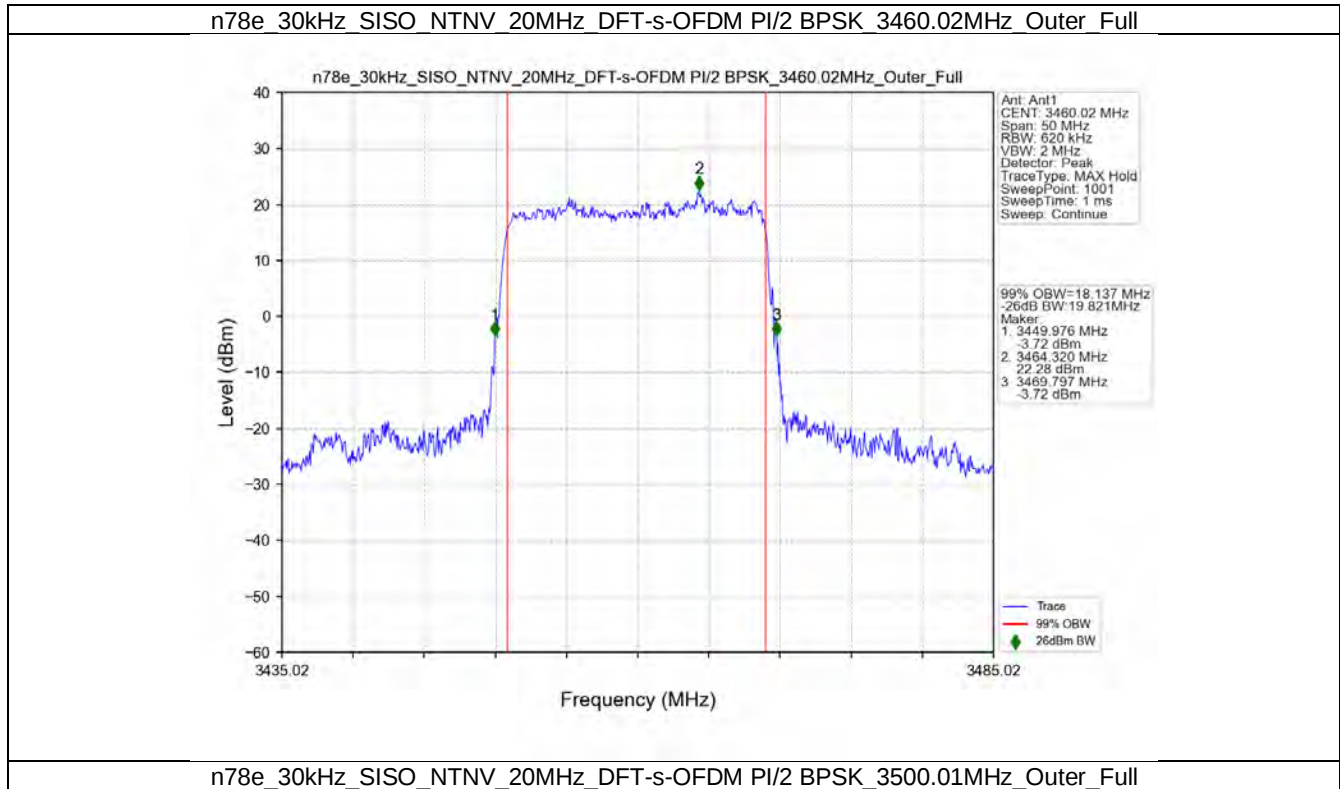
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3.1.2 Test Graph



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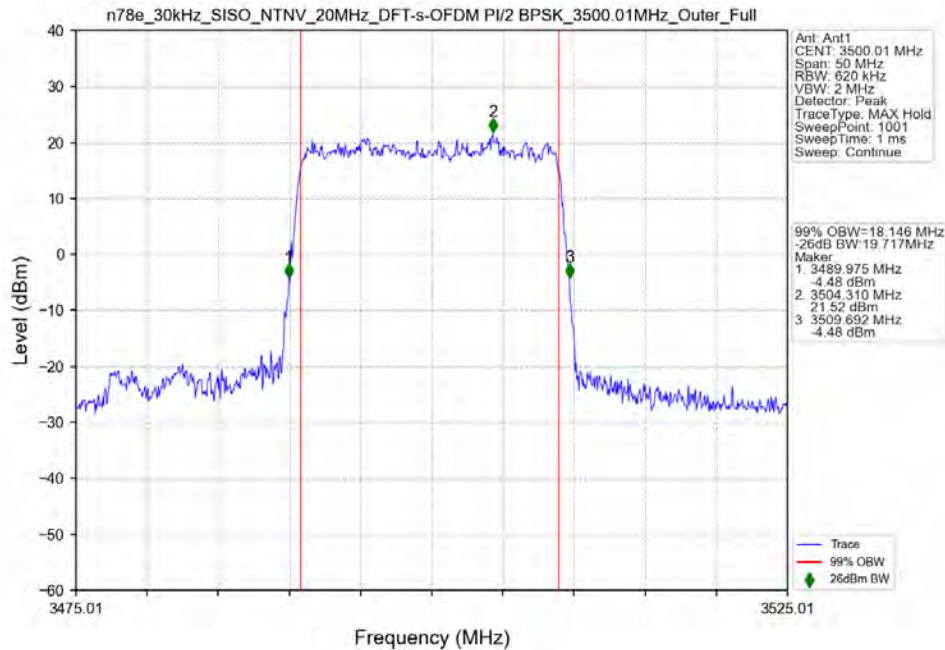


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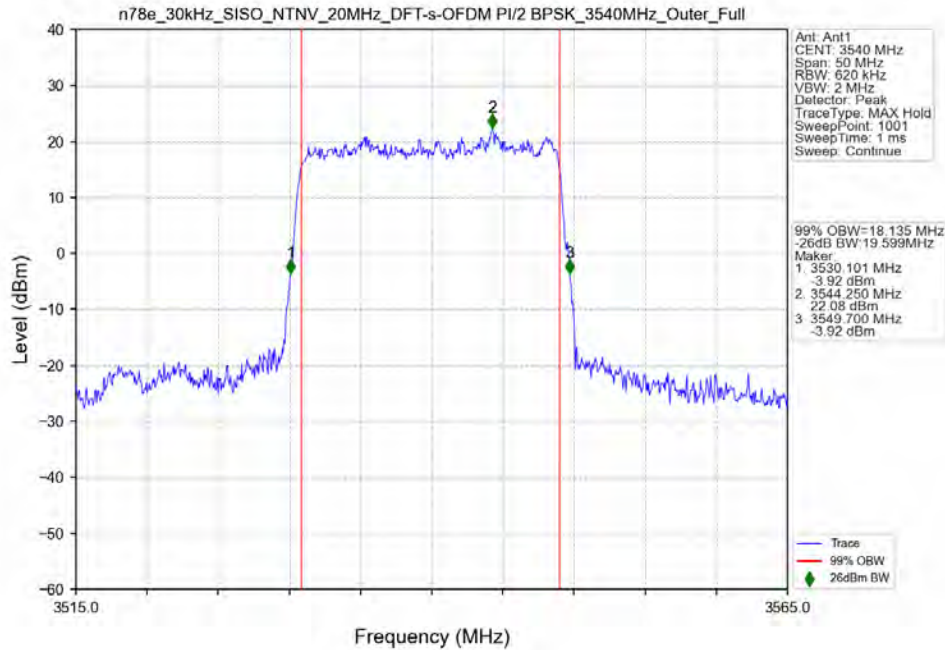
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n78e_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_3540MHz_Outer_Full



n78e_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_3460.02MHz_Outer_Full



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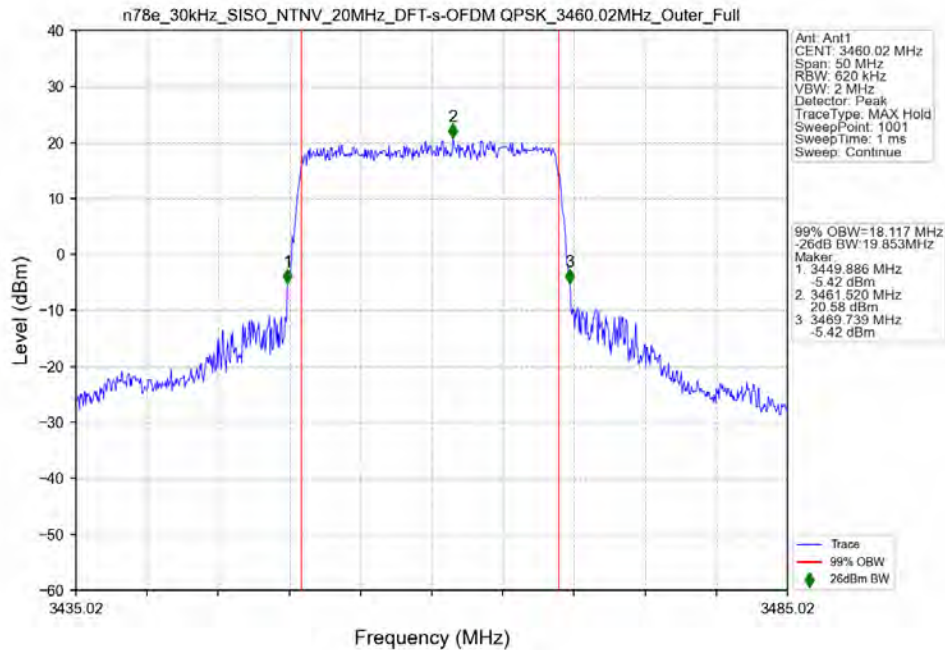


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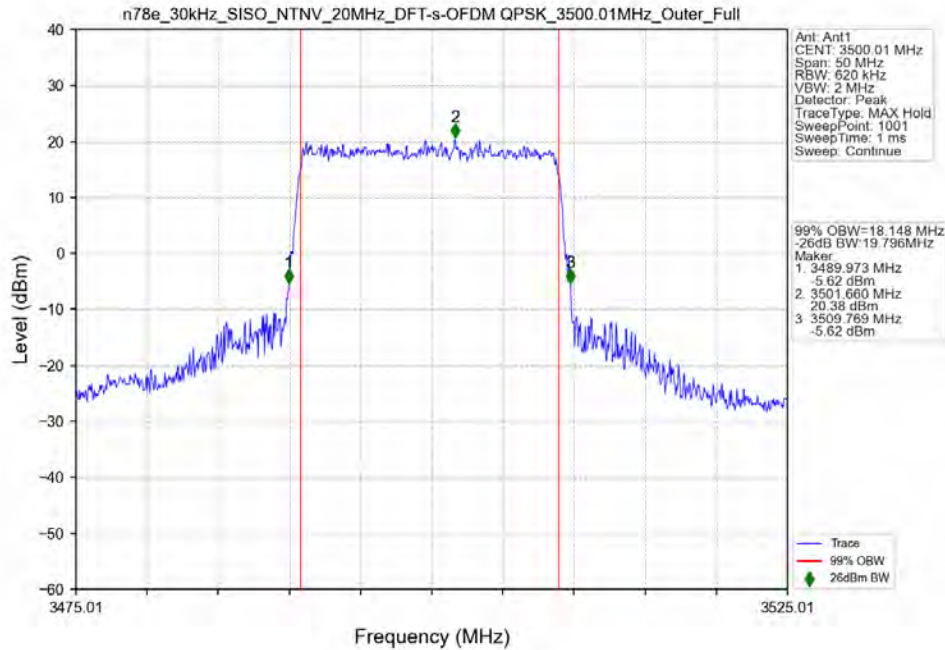
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n78e_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_QPSK_3500.01MHz_Outer_Full



n78e_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_QPSK_3540MHz_Outer_Full



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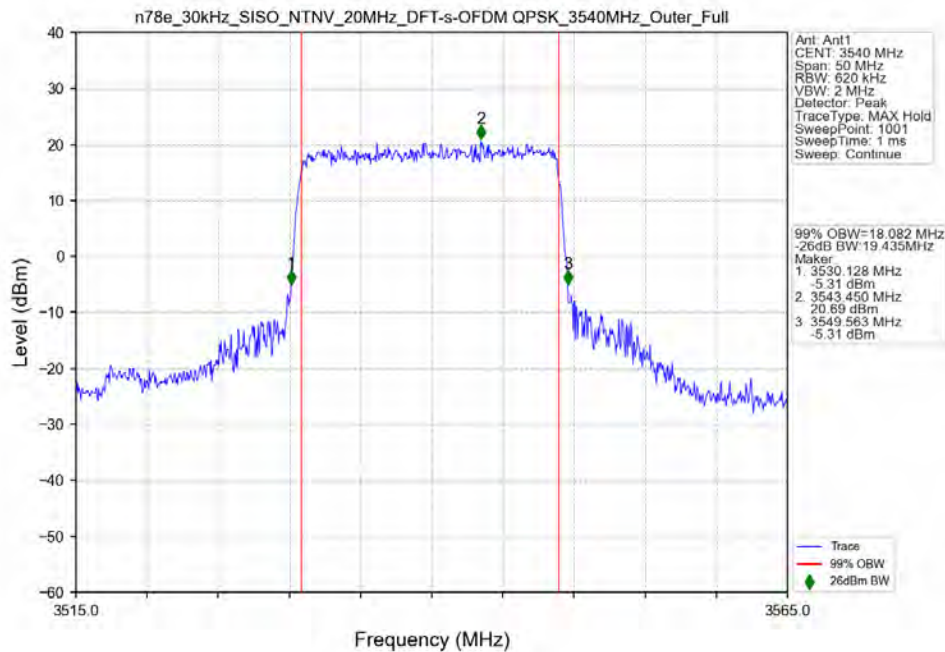


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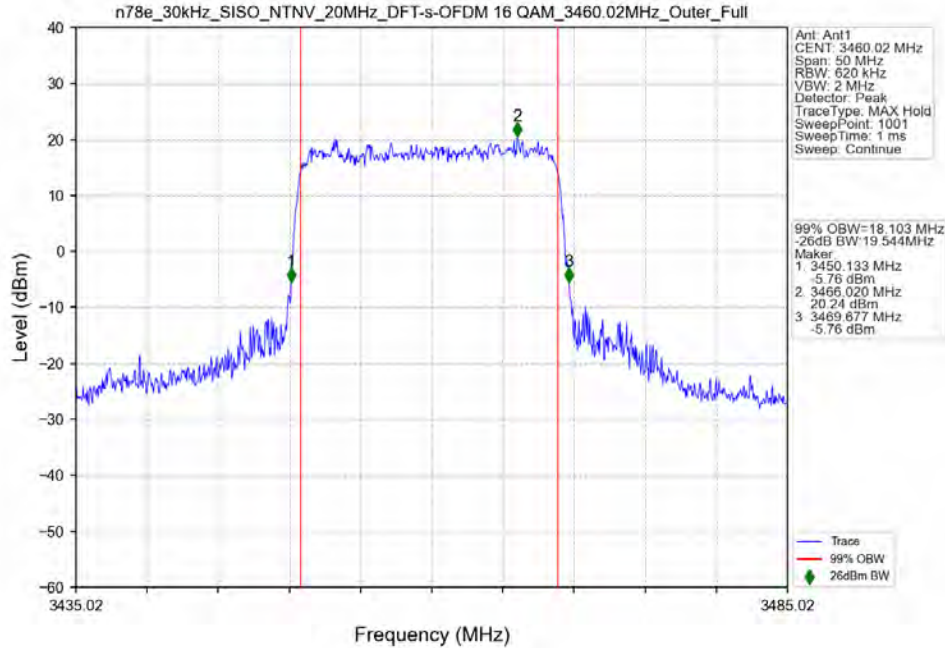
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n78e_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_16_QAM_3460.02MHz_Outer_Full



n78e_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_16_QAM_3500.01MHz_Outer_Full



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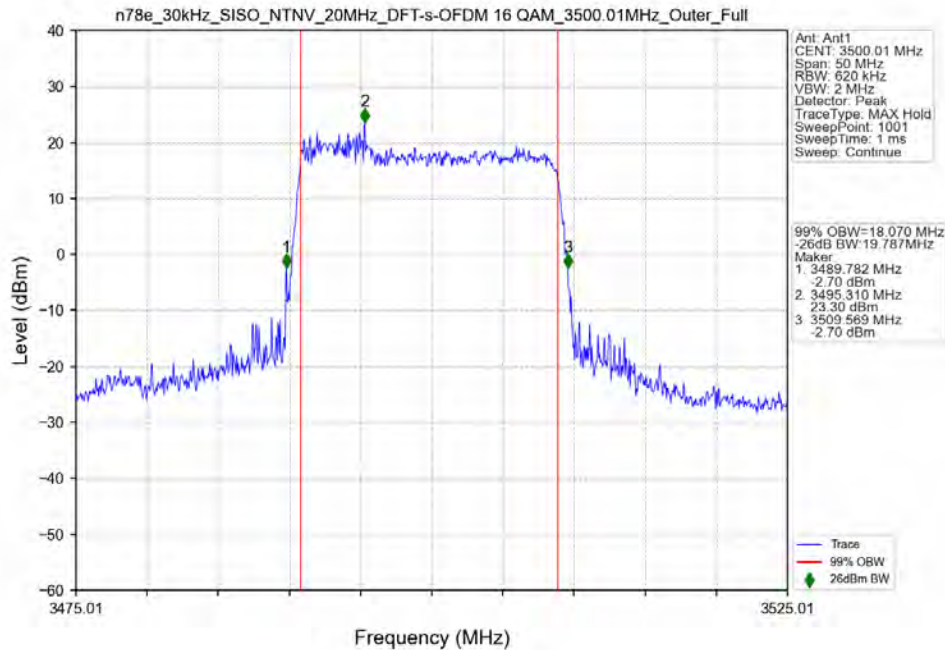


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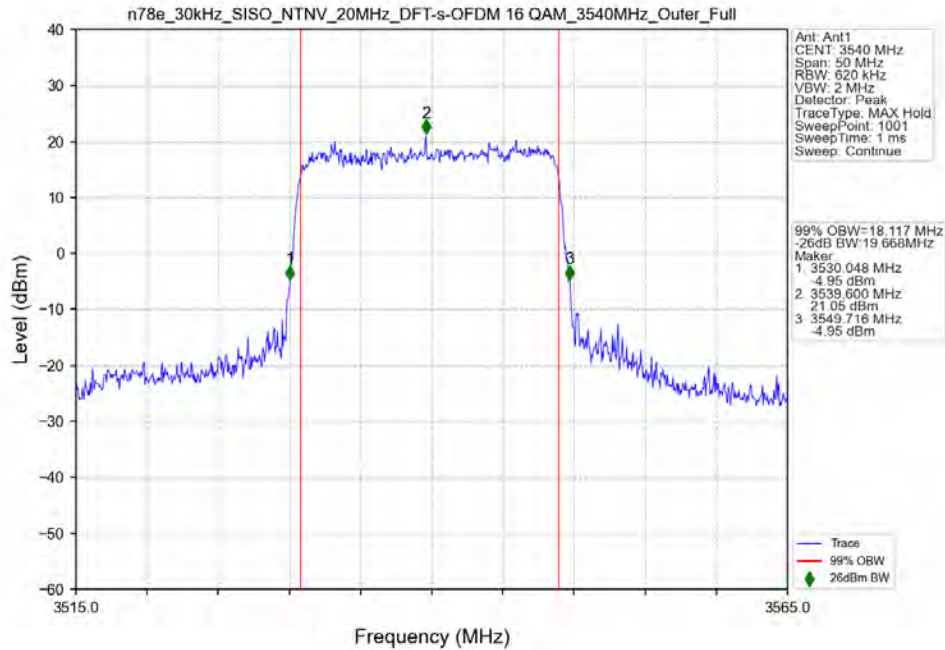
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n78e_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 64 QAM_3460.02MHz_Outer_Full



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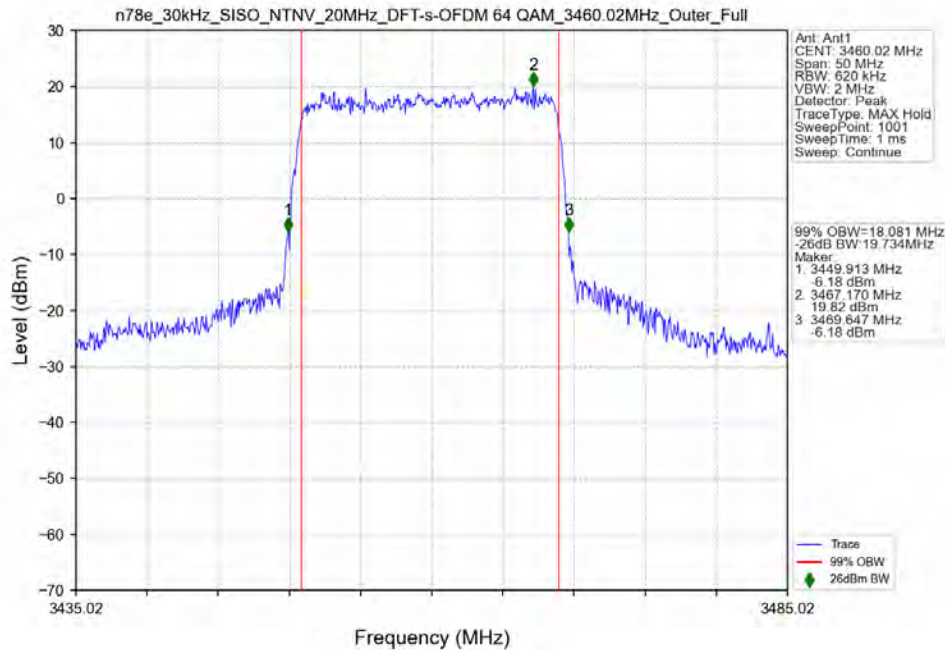


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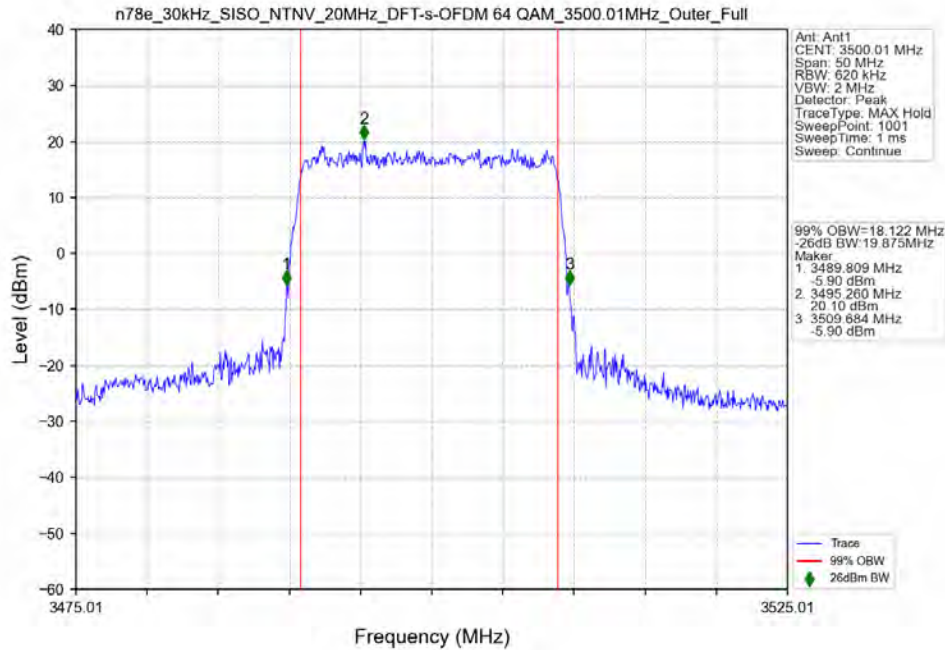
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n78e_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 64 QAM_3540MHz_Outer_Full



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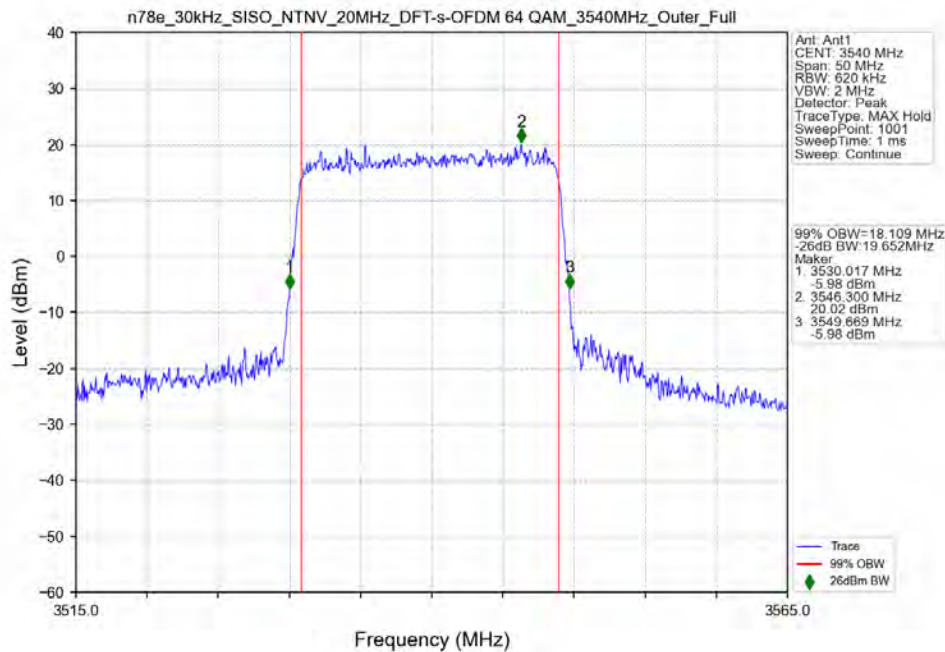


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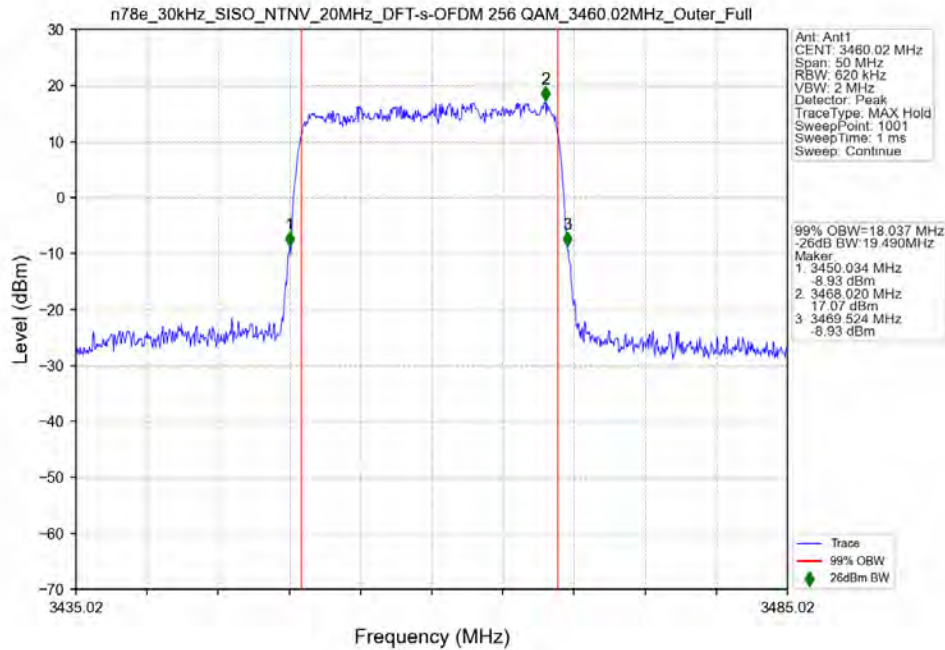
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n78e_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_256_QAM_3500.01MHz_Outer_Full



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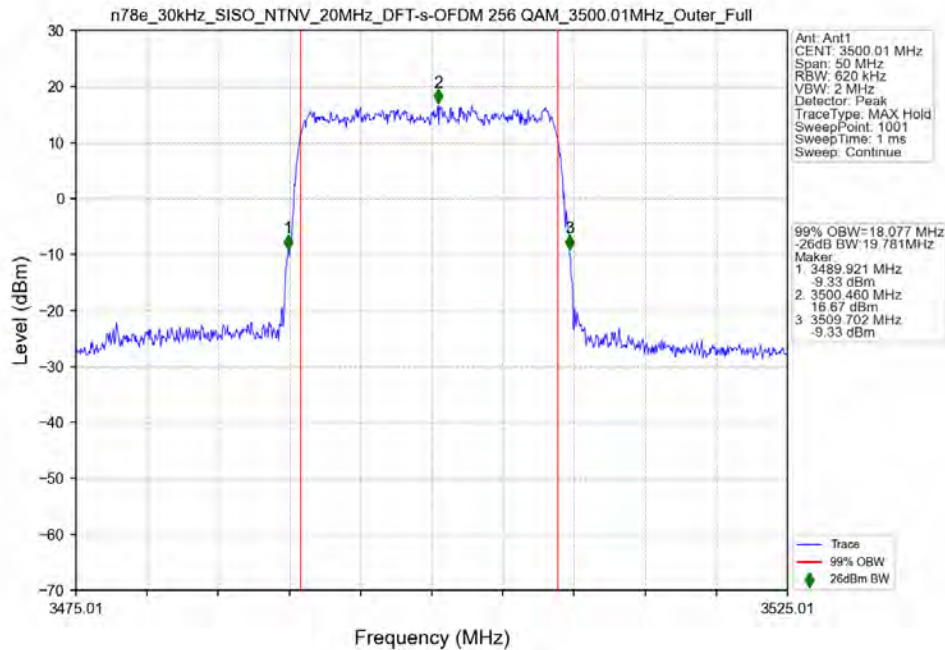


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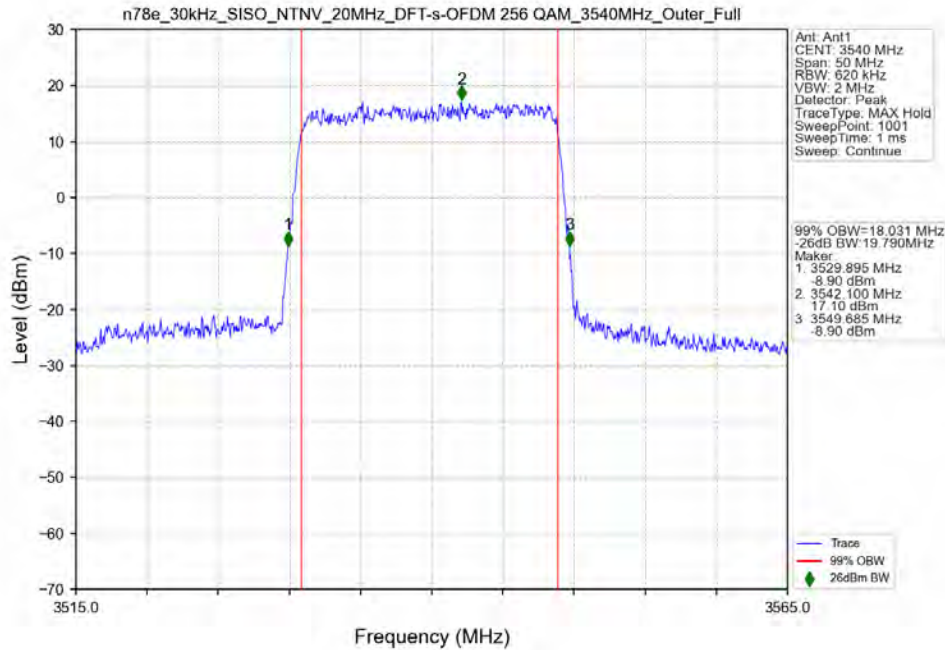
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n78e_30kHz_SISO_NTNV_20MHz_CP-OFDM_QPSK_3460.02MHz_Outer_Full



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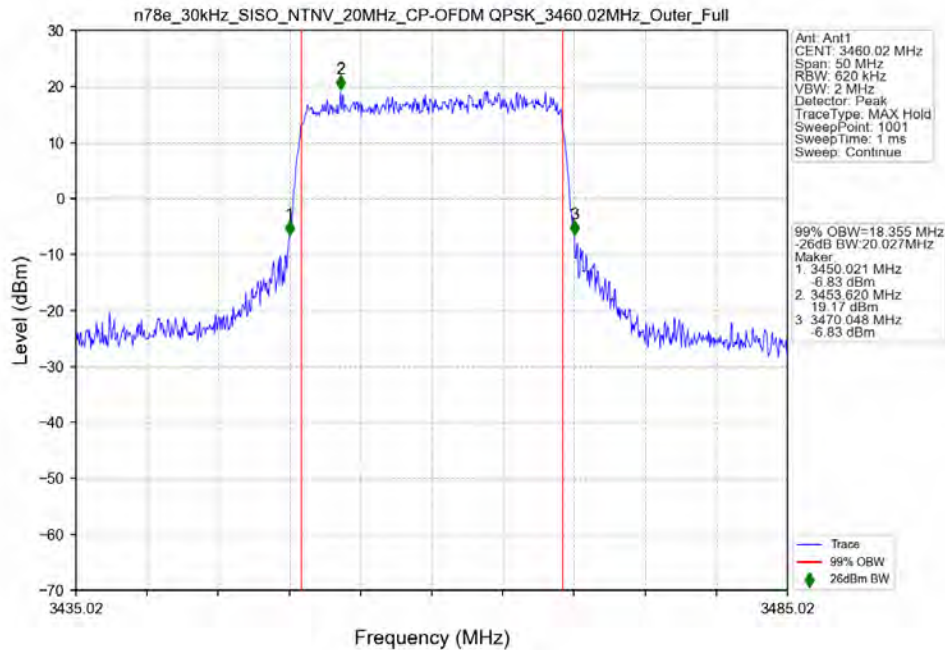


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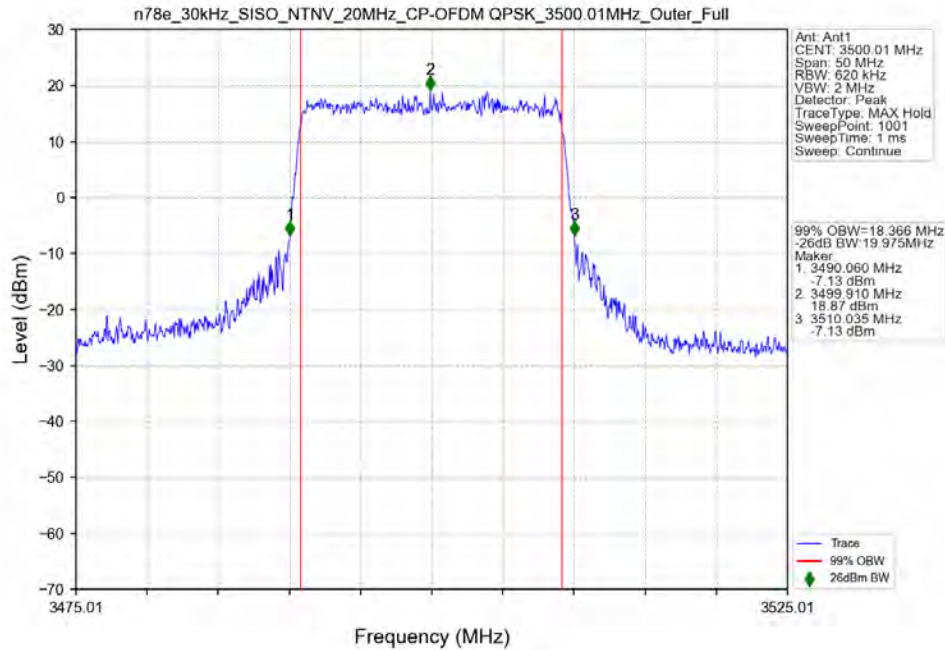
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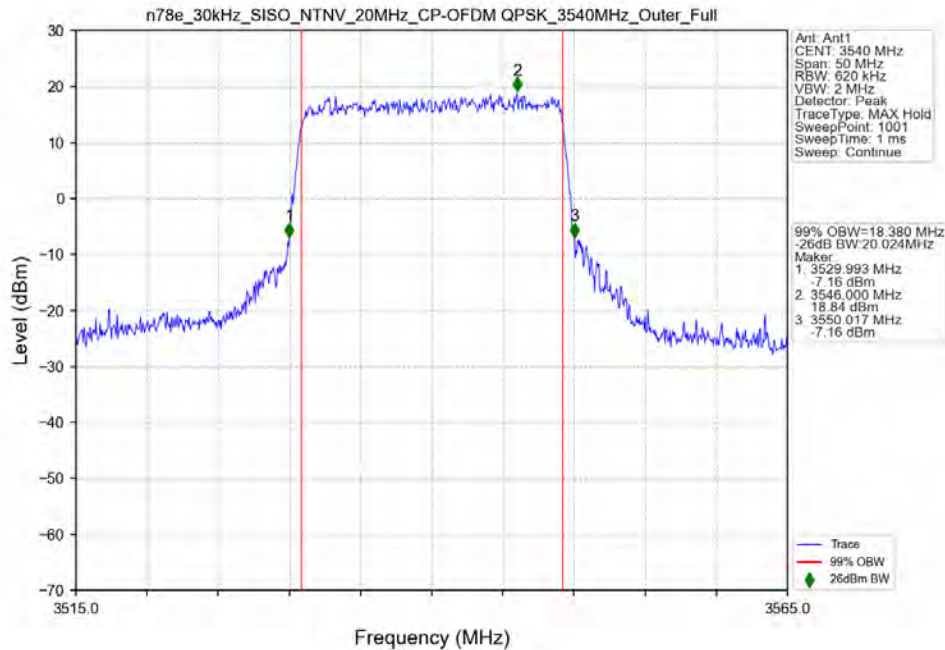


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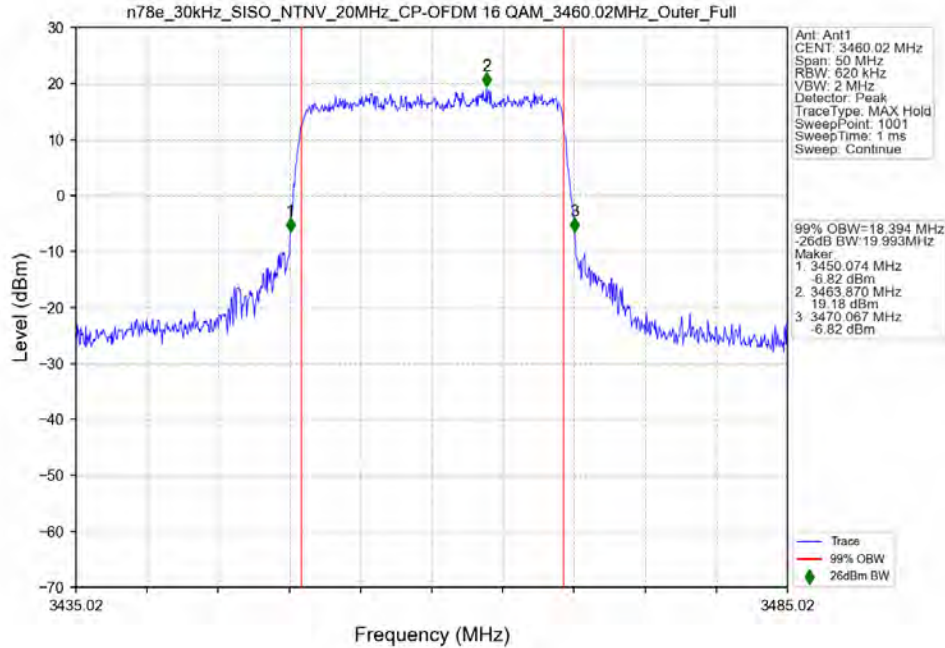
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n78e_30kHz_SISO_NTNV_20MHz_CP-OFDM 16 QAM_3500.01MHz_Outer_Full



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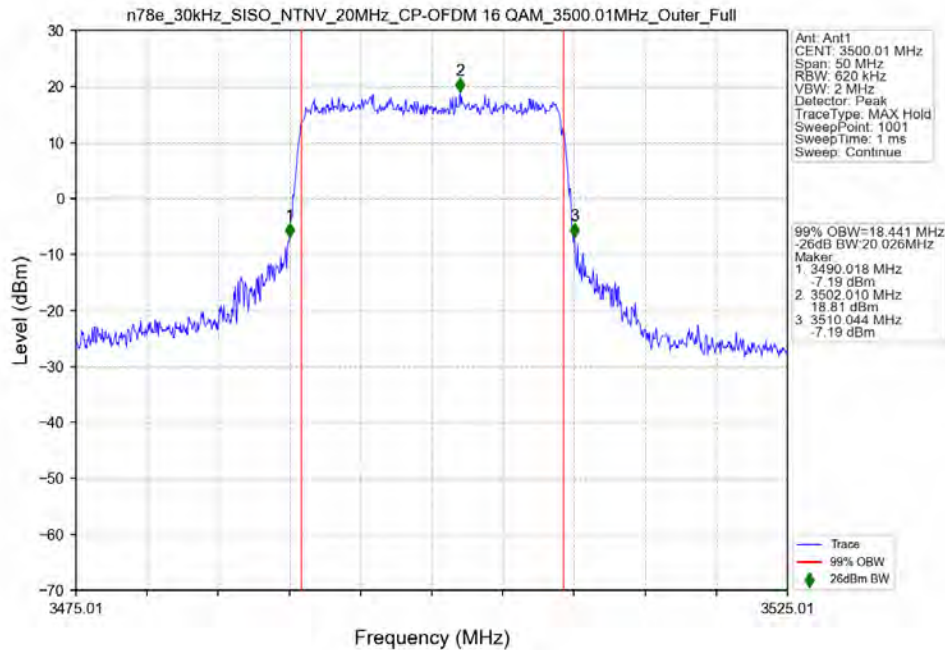


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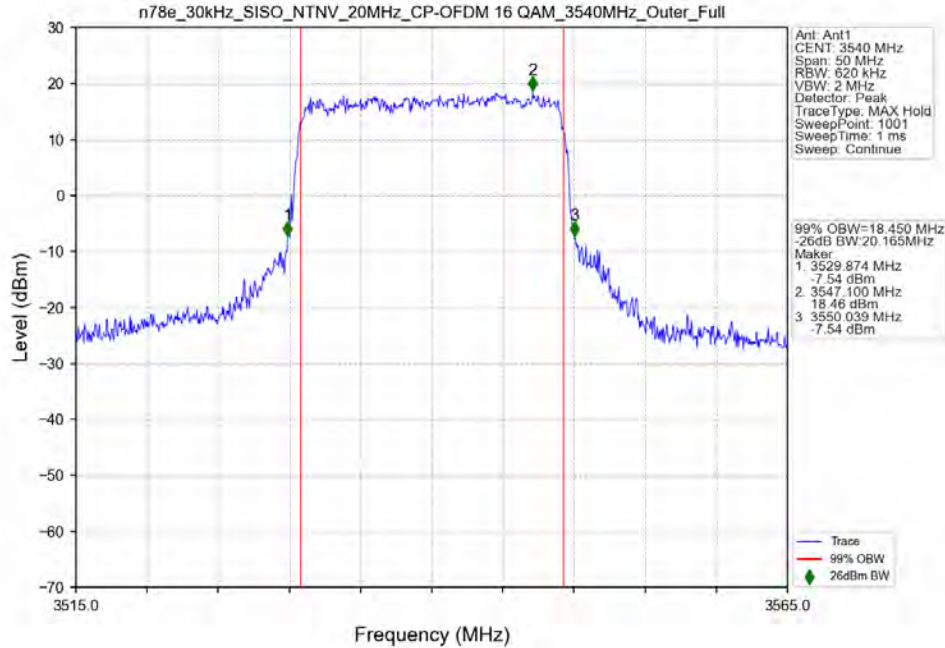
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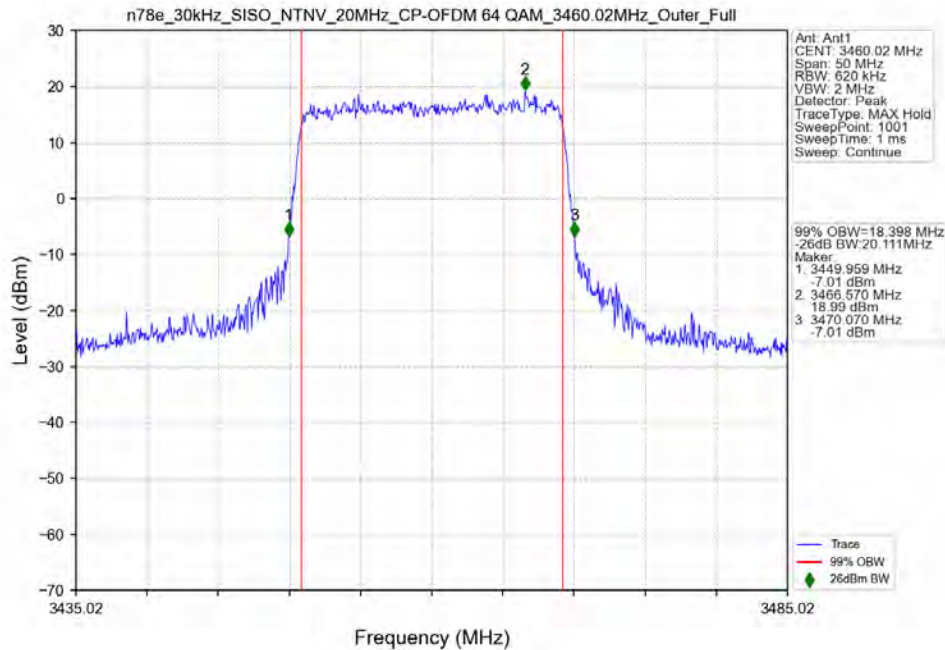


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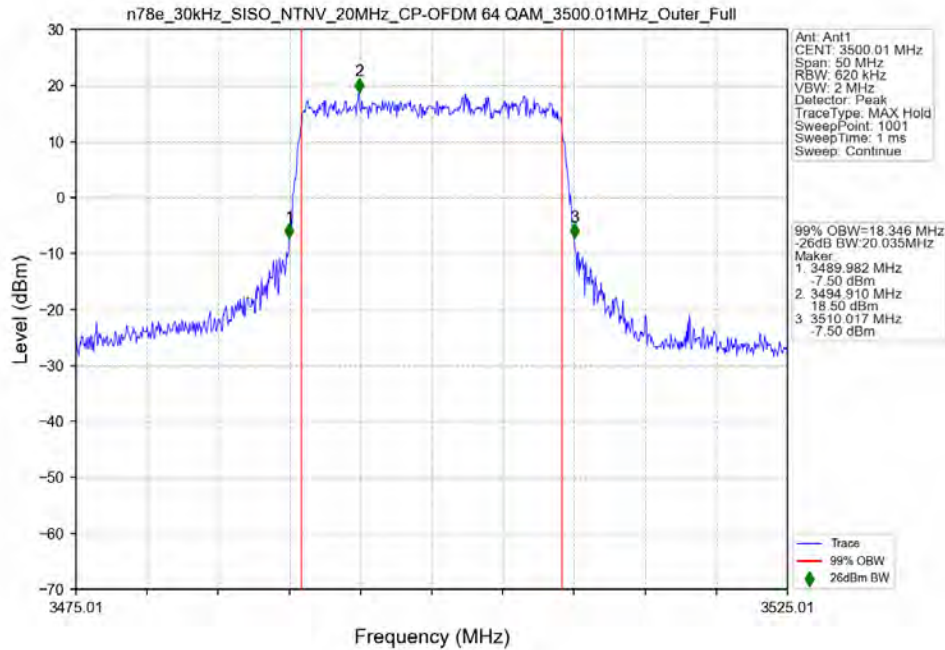
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n78e_30kHz_SISO_NTNV_20MHz_CP-OFDM 64 QAM_3500.01MHz_Outer_Full



n78e_30kHz_SISO_NTNV_20MHz_CP-OFDM 64 QAM_3540MHz_Outer_Full



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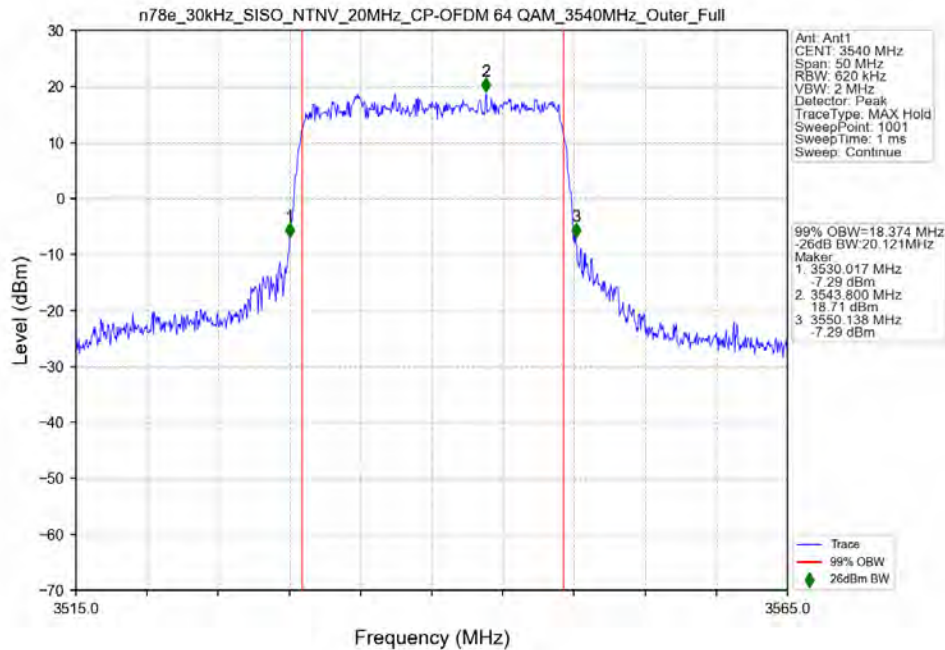


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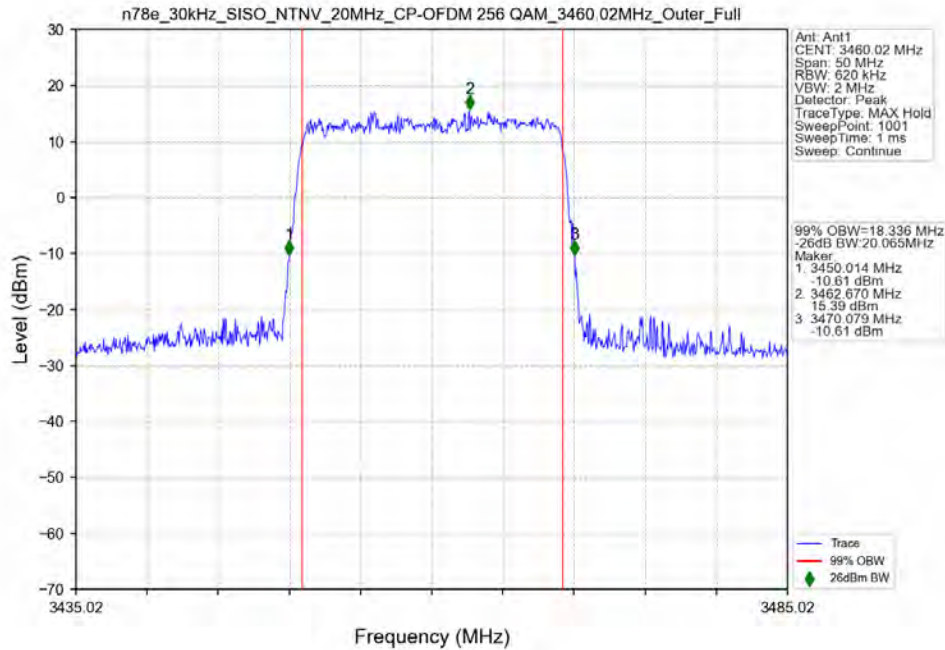
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n78e_30kHz_SISO_NTNV_20MHz_CP-OFDM_256_QAM_3460.02MHz_Outer_Full



n78e_30kHz_SISO_NTNV_20MHz_CP-OFDM_256_QAM_3500.01MHz_Outer_Full



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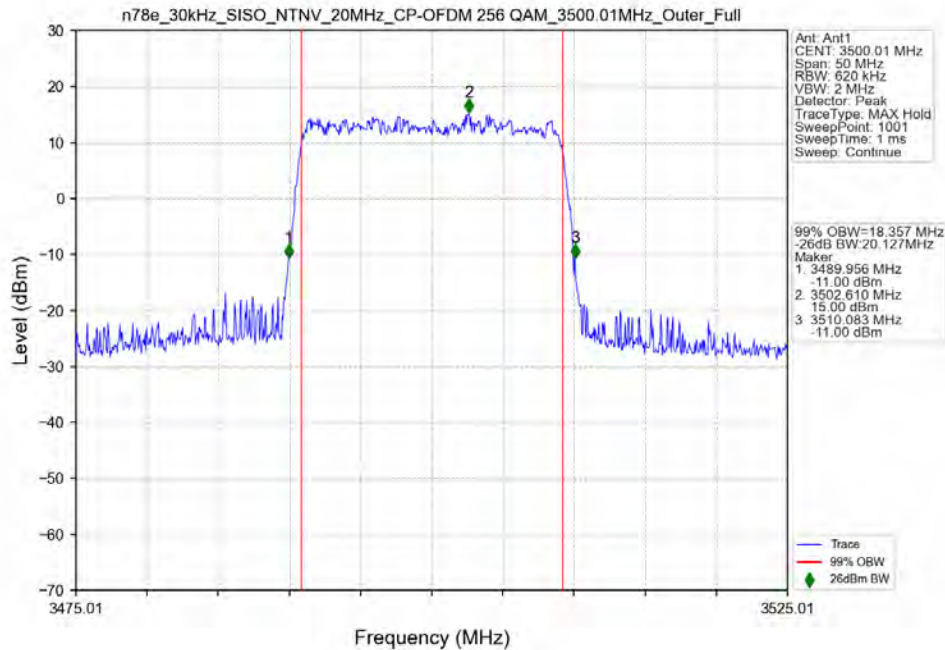


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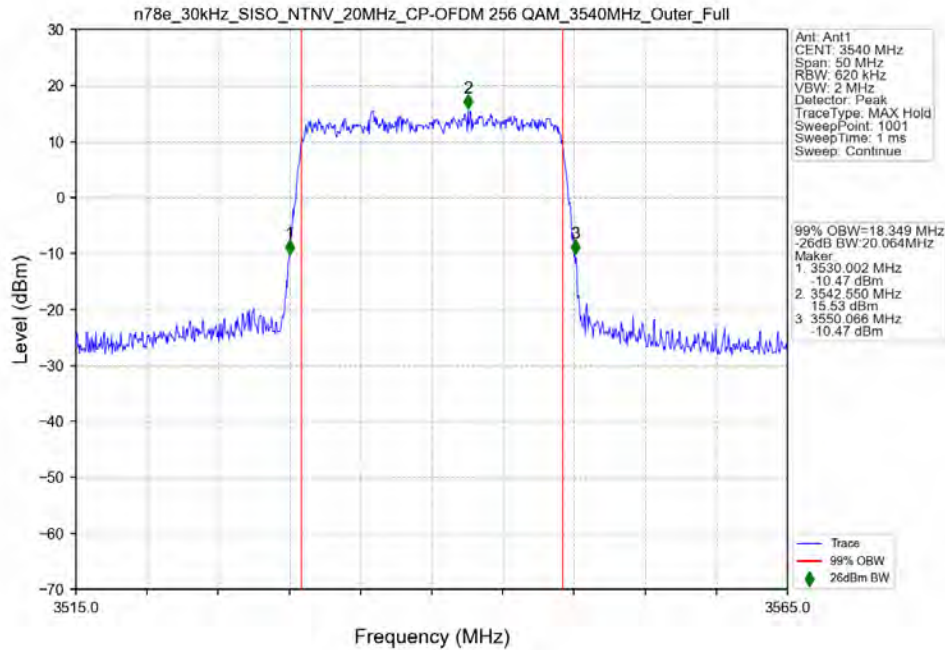
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n78e_30kHz_SISO_NTNV_20MHz_CP-OFDM_256_QAM_3540MHz_Outer_Full



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3.2 30k_SISO_30MHz_NTNV

3.2.1 Test Result

5G NR n78e 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	3465	Outer Full	27.03	29.25	/	Pass
	3500.01	Outer Full	27.12	29.21	/	Pass
	3534.99	Outer Full	27.09	29.20	/	Pass
DFT-s-OFDM QPSK	3465	Outer Full	27.20	29.07	/	Pass
	3500.01	Outer Full	27.17	29.22	/	Pass
	3534.99	Outer Full	27.16	29.14	/	Pass
DFT-s-OFDM 16 QAM	3465	Outer Full	27.16	29.26	/	Pass
	3500.01	Outer Full	27.14	29.16	/	Pass
	3534.99	Outer Full	27.08	29.18	/	Pass
DFT-s-OFDM 64 QAM	3465	Outer Full	27.17	29.20	/	Pass
	3500.01	Outer Full	27.14	29.08	/	Pass
	3534.99	Outer Full	27.17	29.21	/	Pass
DFT-s-OFDM 256 QAM	3465	Outer Full	27.19	29.19	/	Pass
	3500.01	Outer Full	27.13	29.20	/	Pass
	3534.99	Outer Full	27.16	29.20	/	Pass
CP-OFDM QPSK	3465	Outer Full	28.09	30.26	/	Pass
	3500.01	Outer Full	28.18	30.22	/	Pass
	3534.99	Outer Full	28.17	30.03	/	Pass
CP-OFDM 16 QAM	3465	Outer Full	28.07	30.34	/	Pass
	3500.01	Outer Full	28.11	30.17	/	Pass
	3534.99	Outer Full	28.19	30.20	/	Pass
CP-OFDM 64 QAM	3465	Outer Full	28.11	30.15	/	Pass
	3500.01	Outer Full	28.12	30.19	/	Pass
	3534.99	Outer Full	28.18	30.16	/	Pass
CP-OFDM 256 QAM	3465	Outer Full	28.11	30.38	/	Pass
	3500.01	Outer Full	28.17	30.42	/	Pass
	3534.99	Outer Full	28.12	30.27	/	Pass



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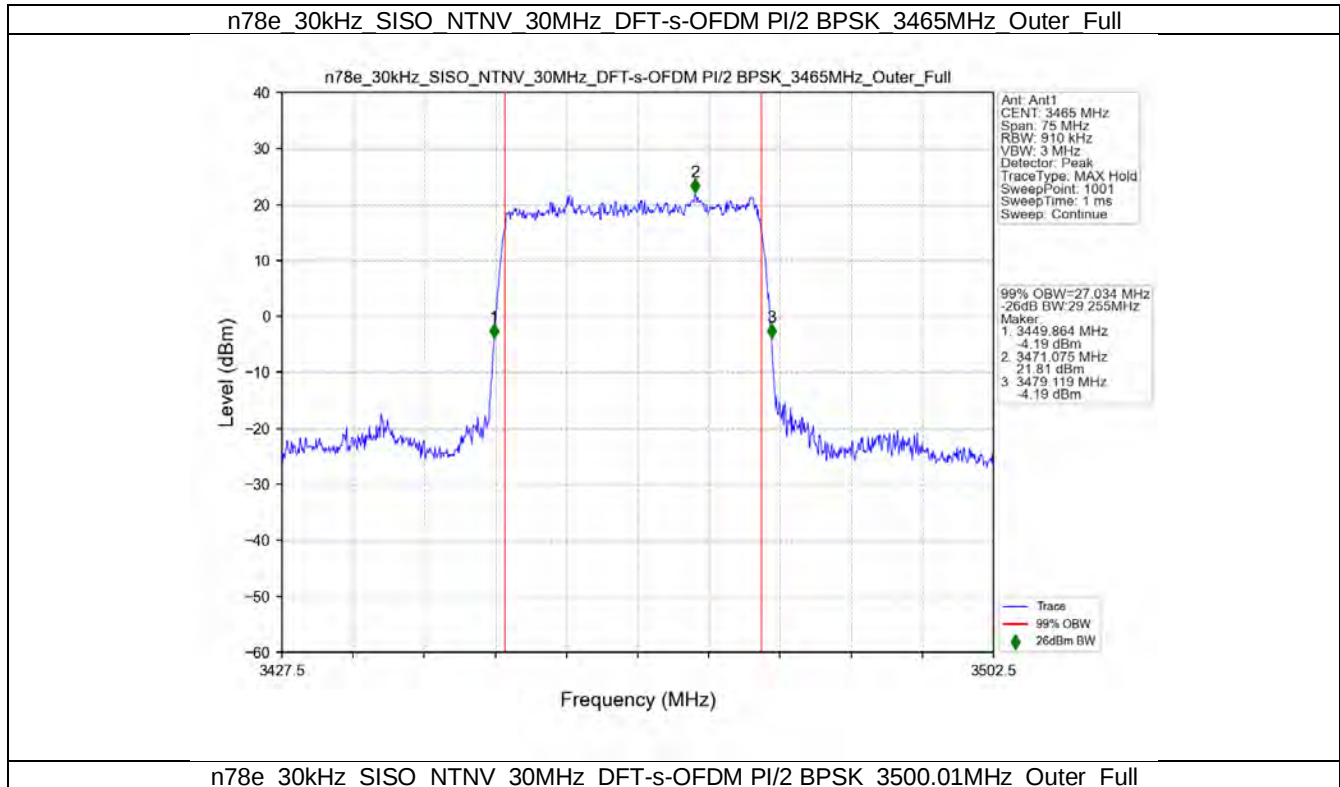
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3.2.2 Test Graph



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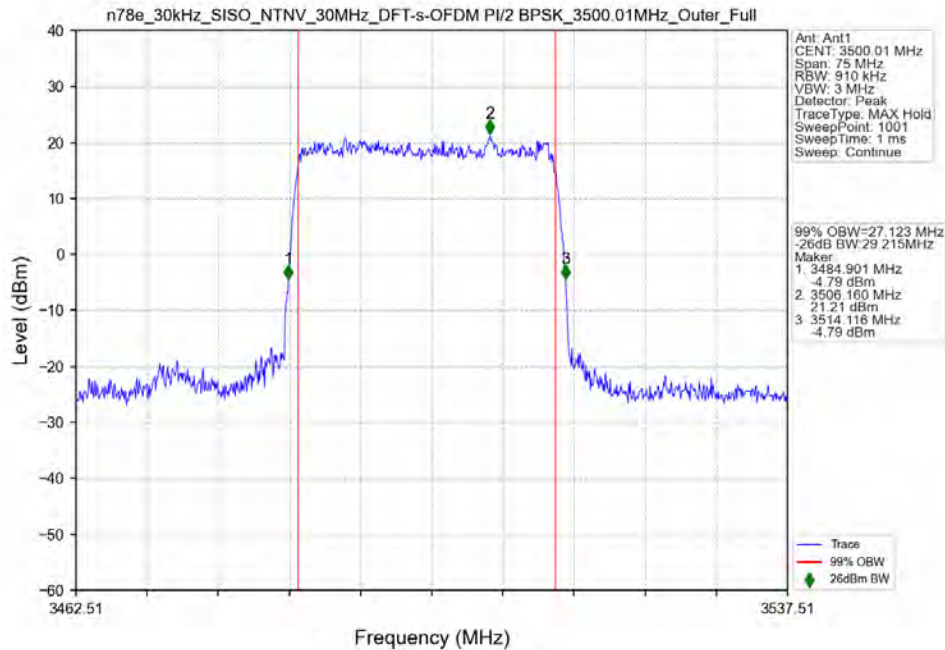


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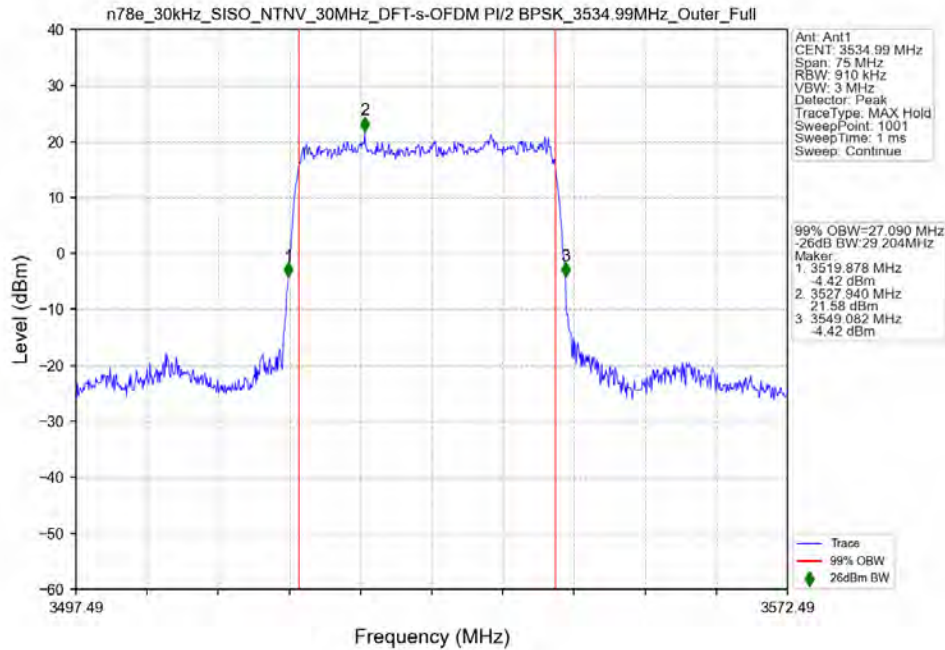
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n78e_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM PI/2 BPSK_3534.99MHz_Outer_Full



n78e_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM QPSK_3465MHz_Outer_Full



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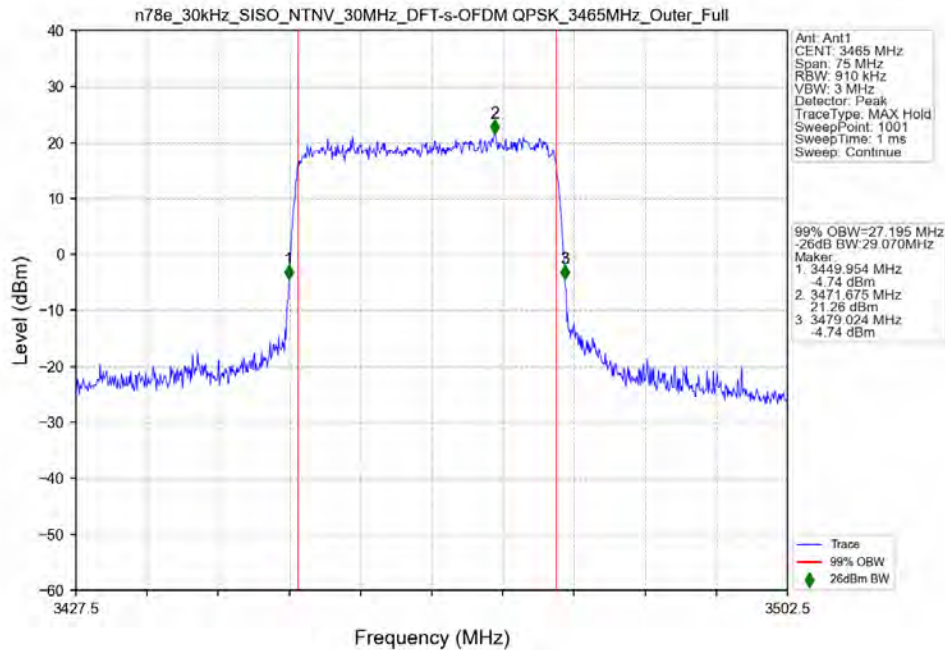


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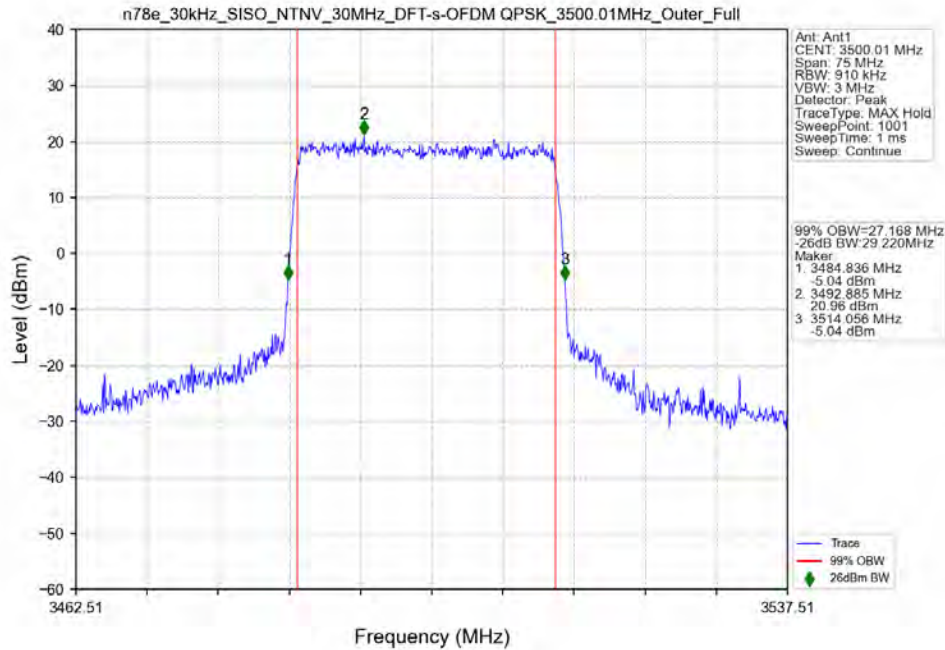
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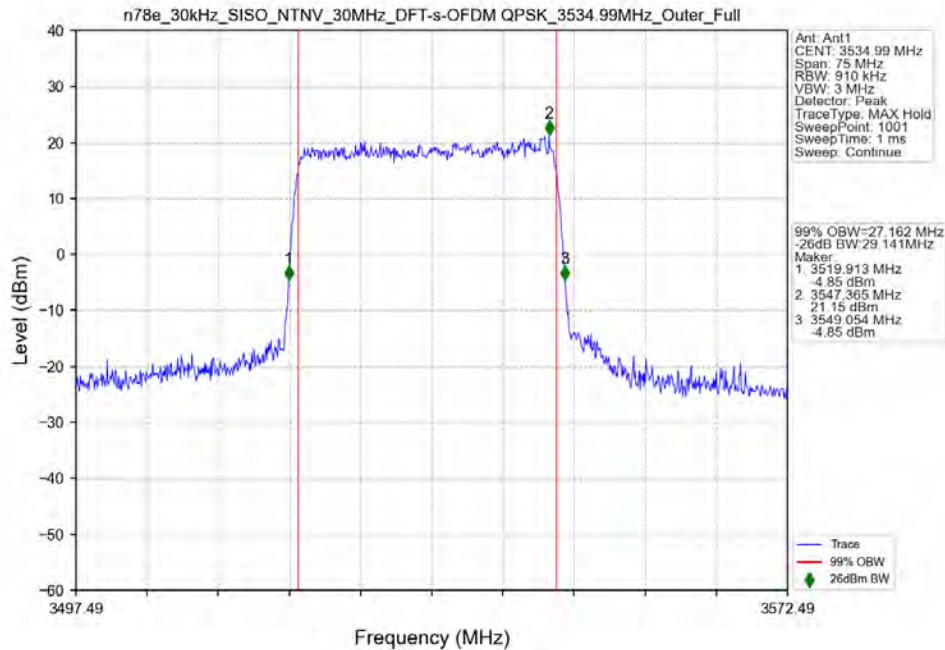


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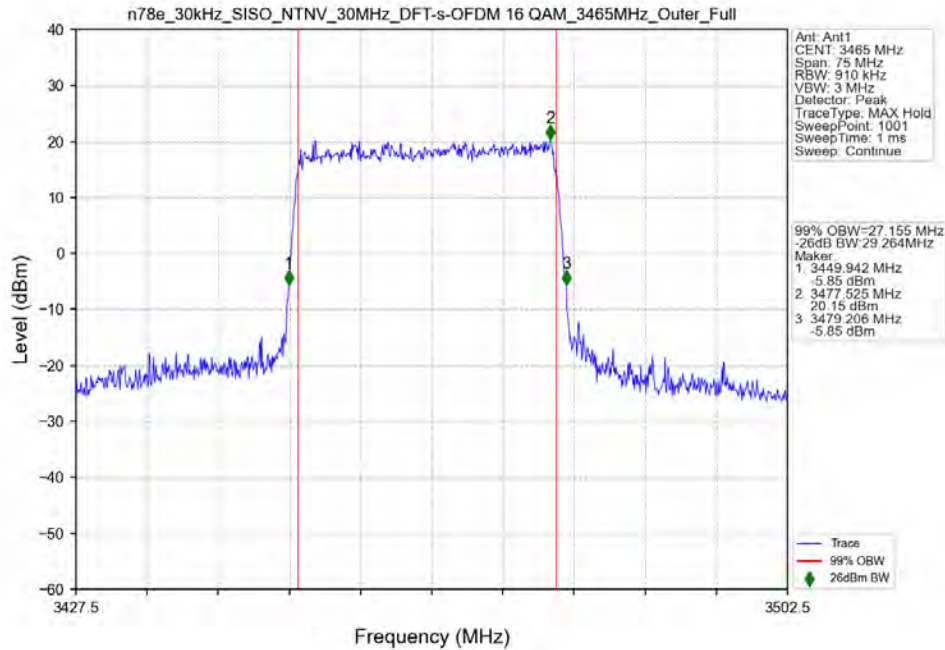
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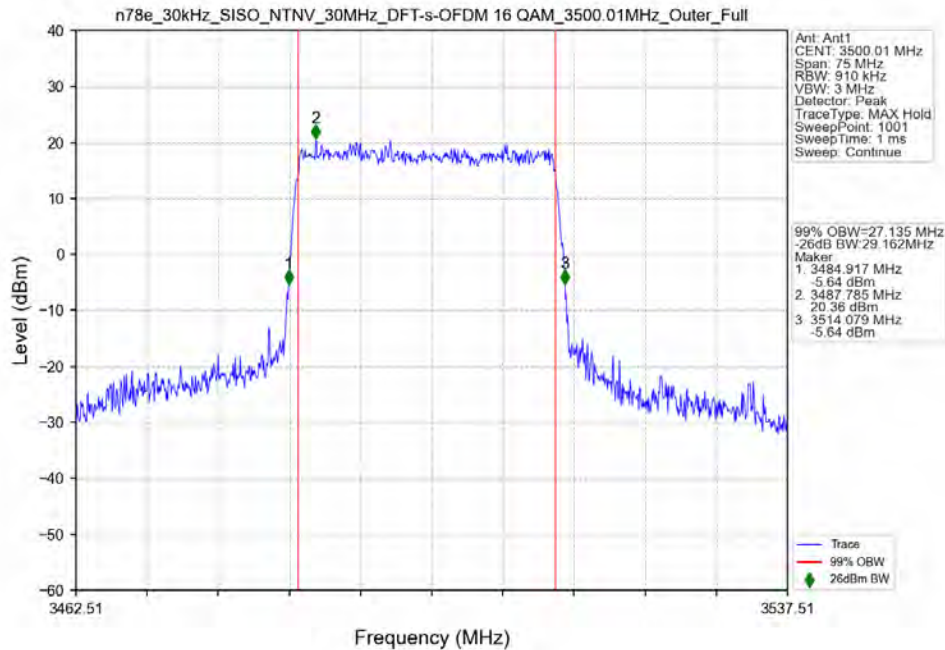


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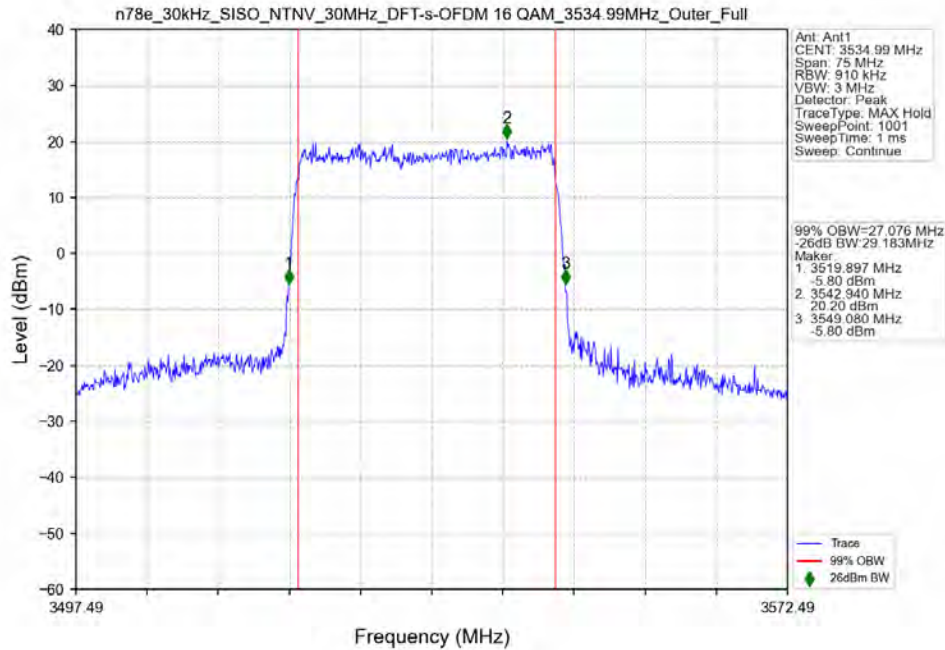
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n78e_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM 64 QAM_3465MHz_Outer_Full



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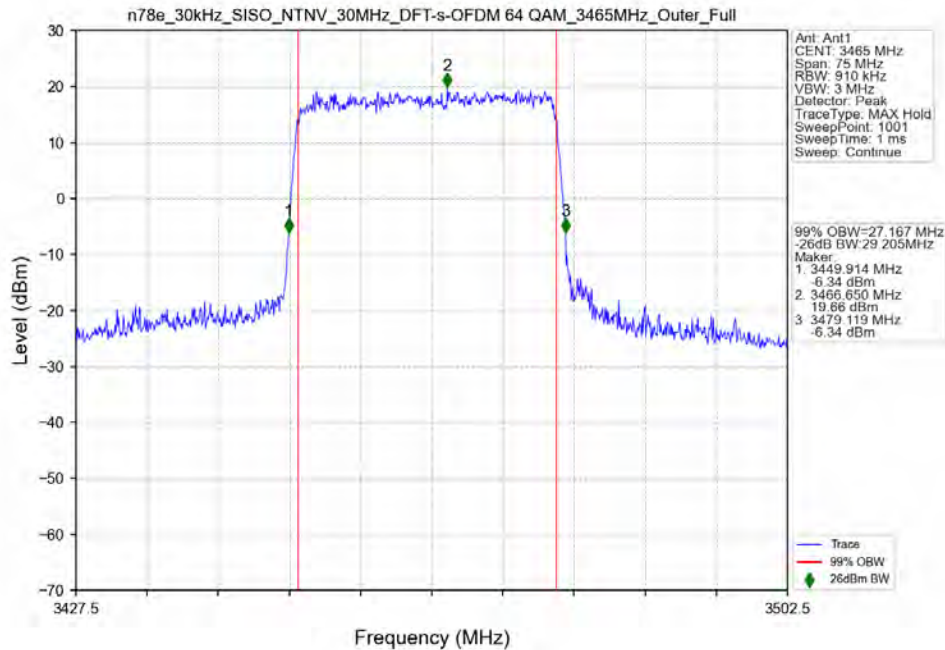


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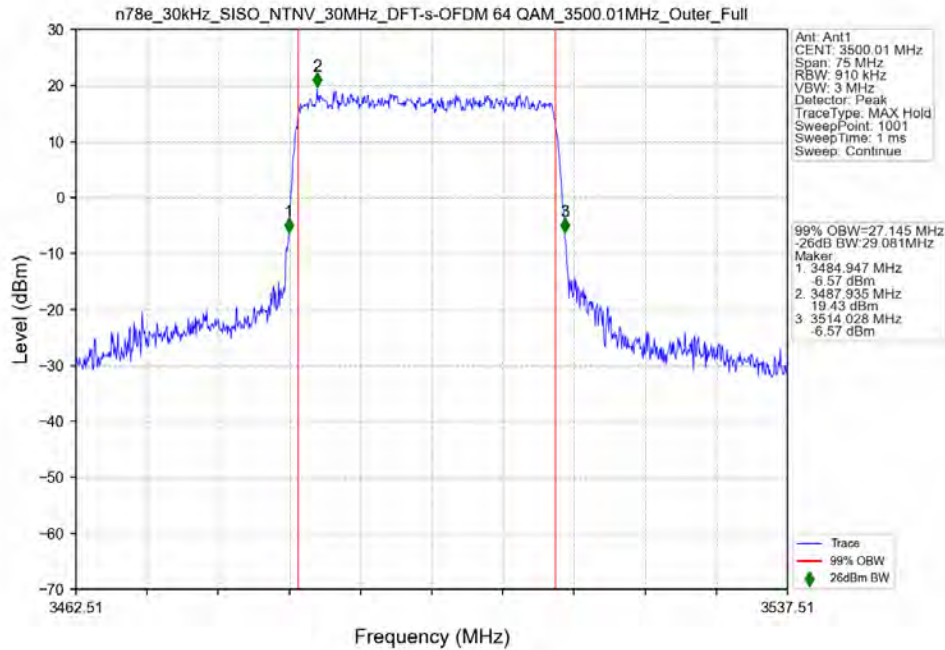
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n78e_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM 64 QAM_3534.99MHz_Outer_Full



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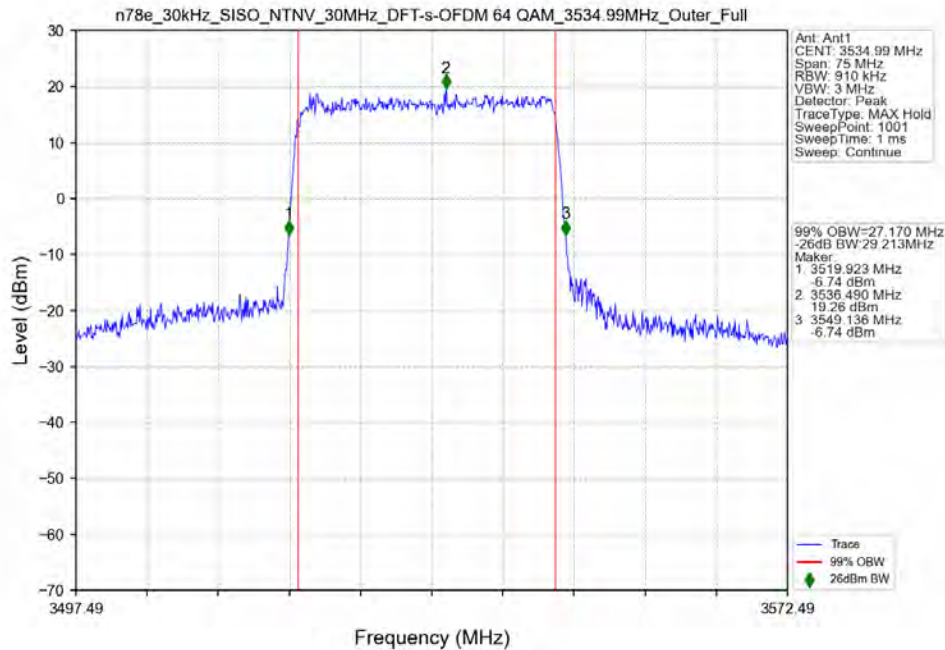


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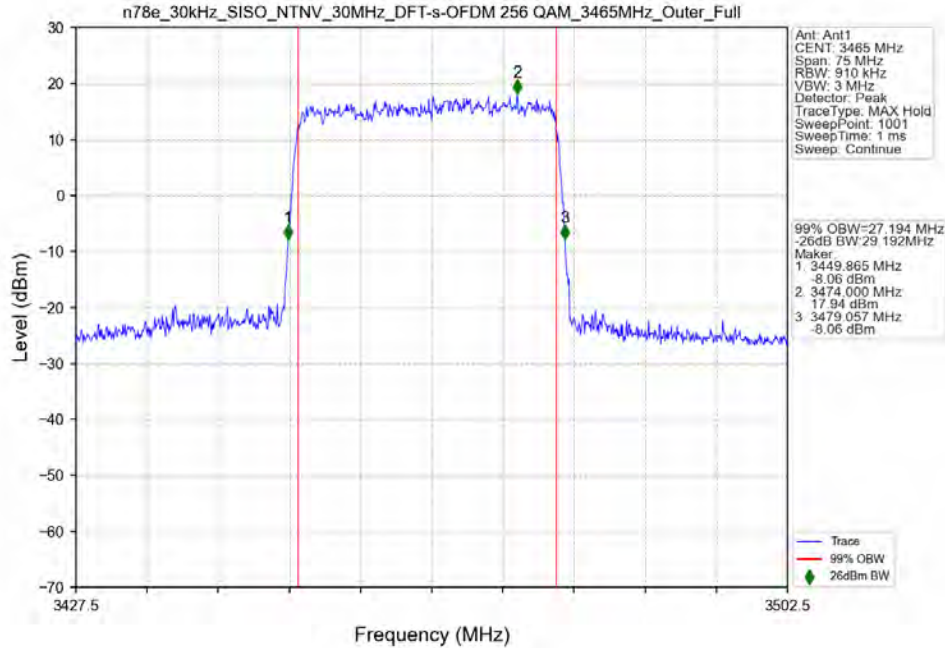
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n78e_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_256_QAM_3500.01MHz_Outer_Full



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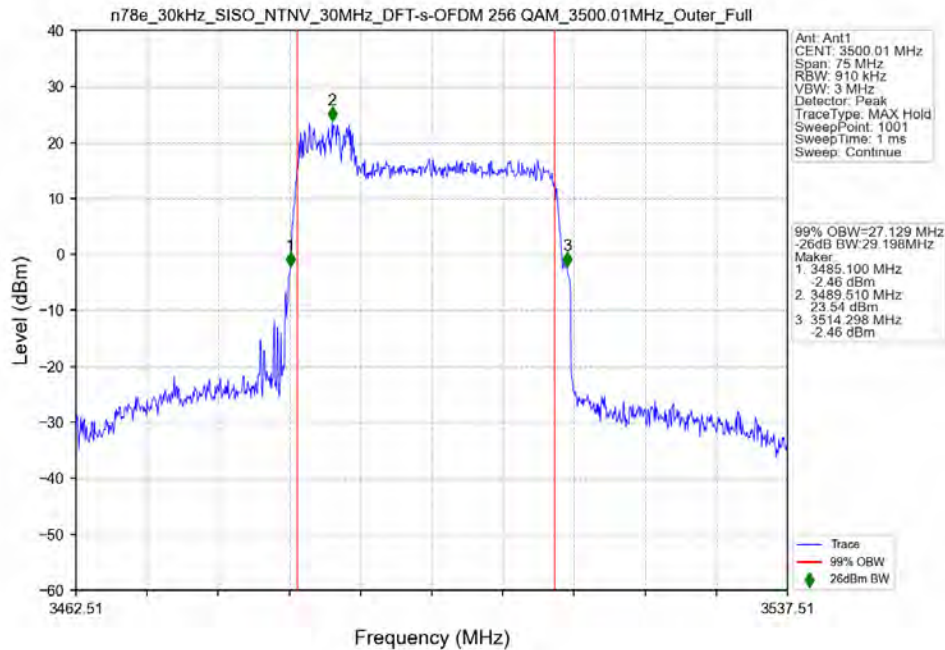


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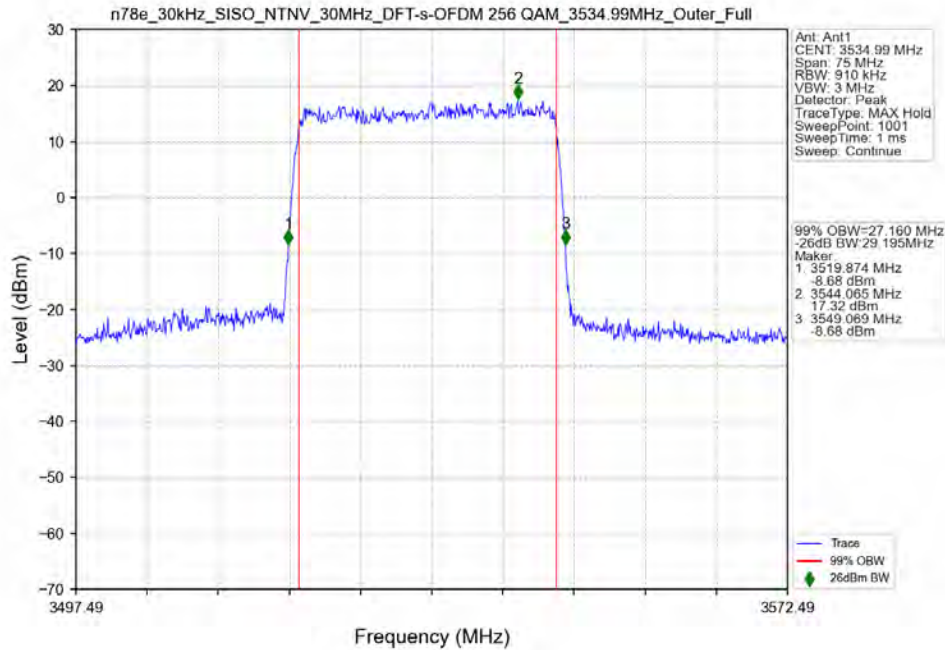
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n78e_30kHz_SISO_NTNV_30MHz_CP-OFDM_QPSK_3465MHz_Outer_Full



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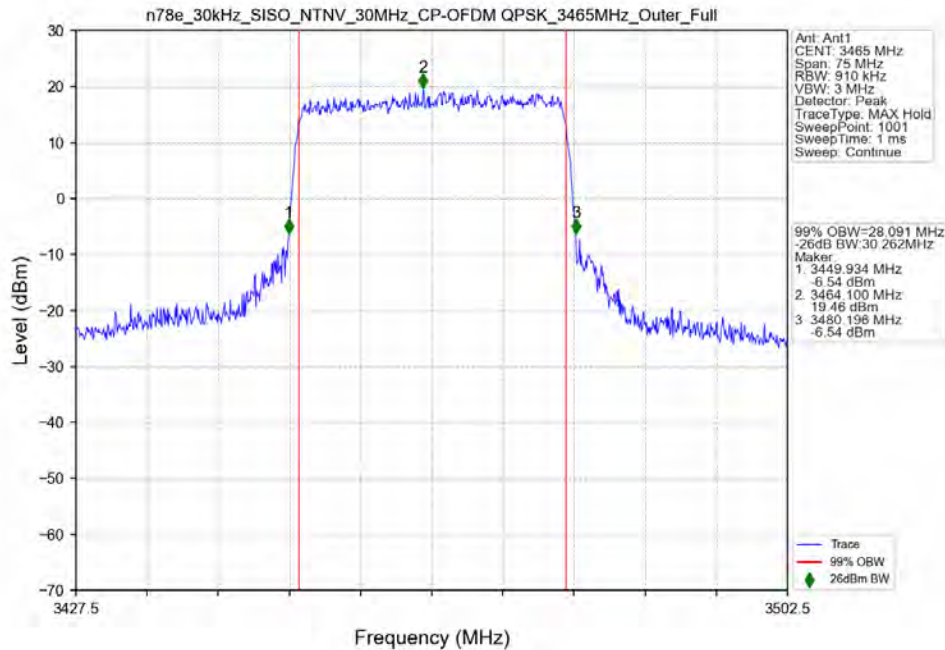


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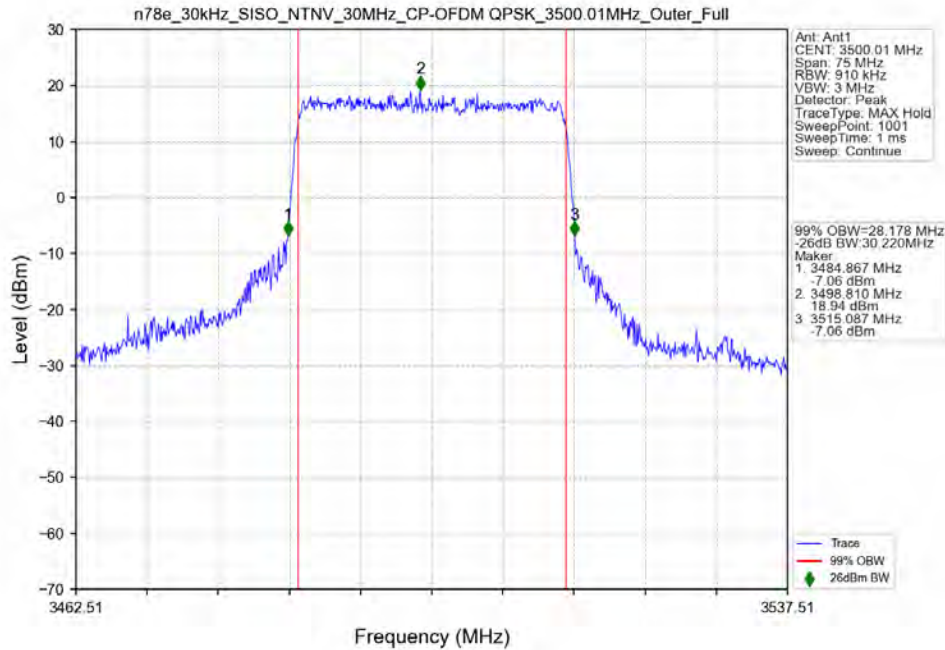
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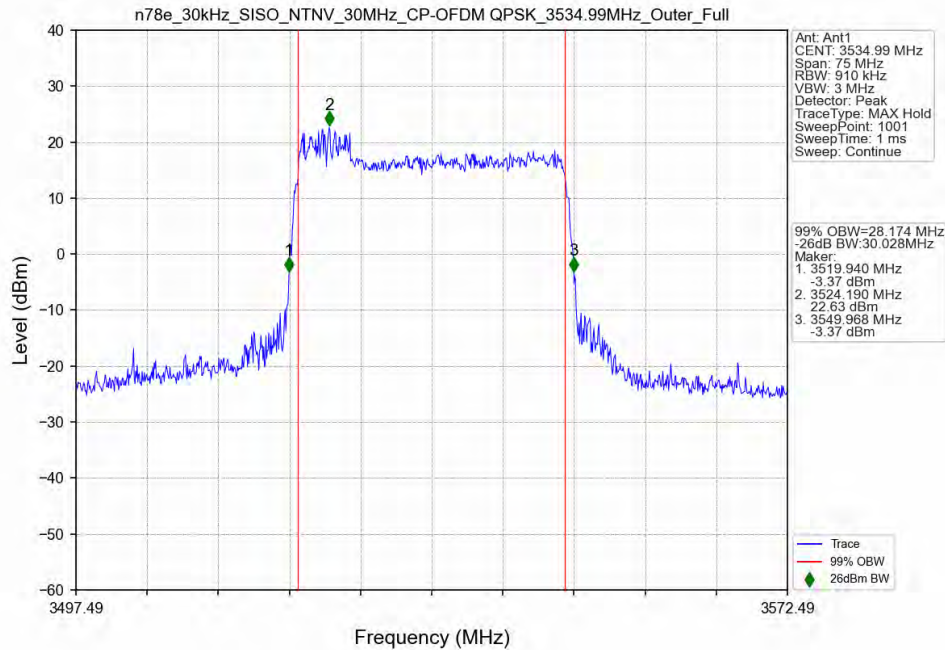


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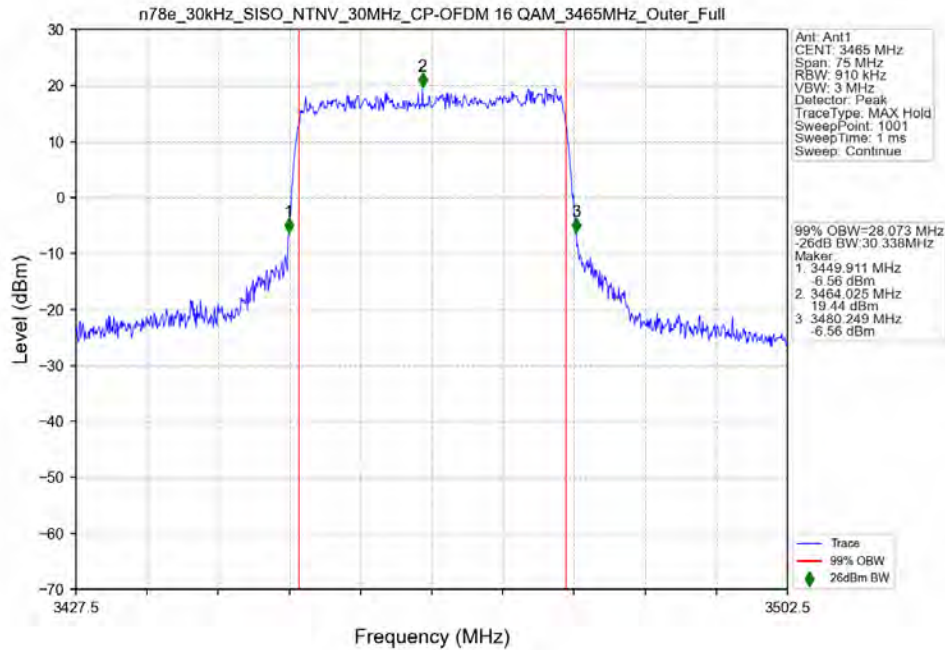
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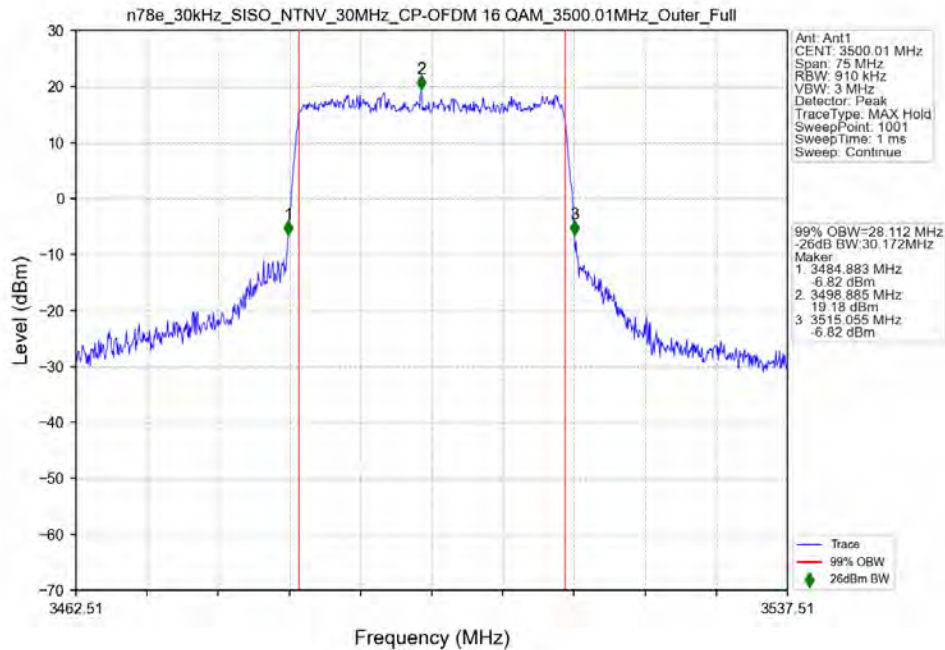


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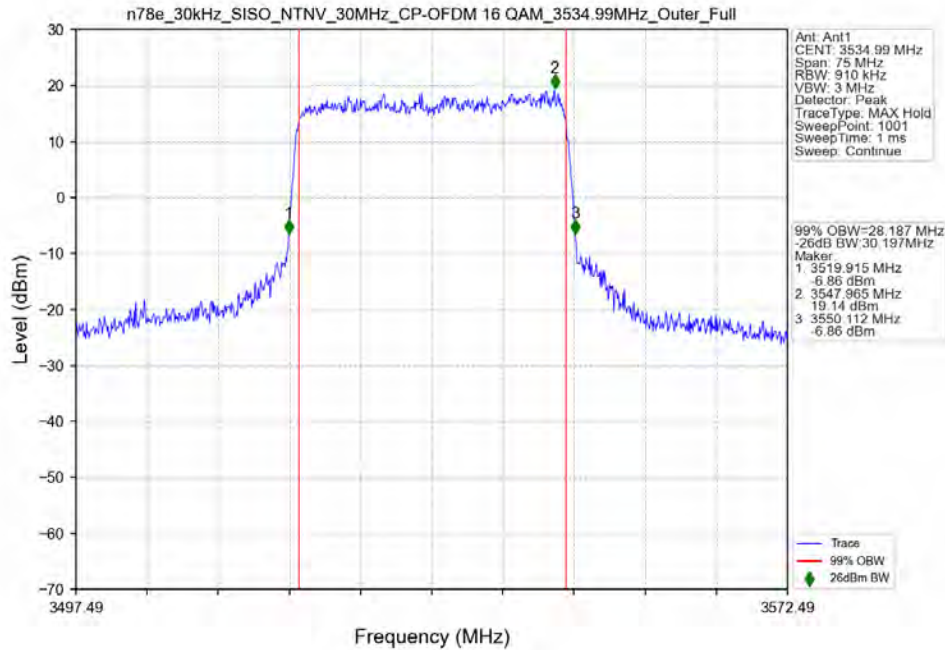
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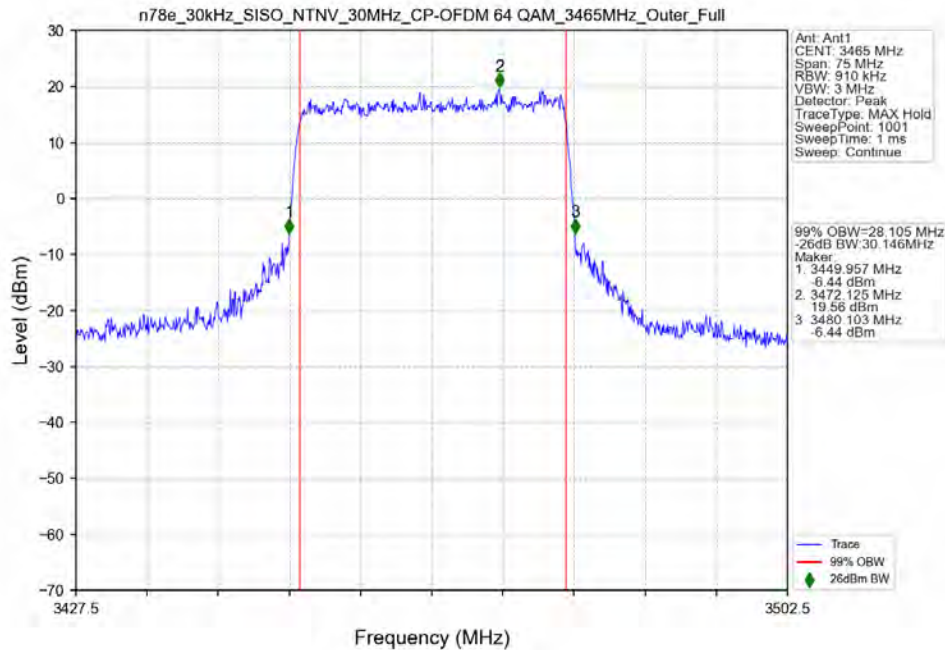


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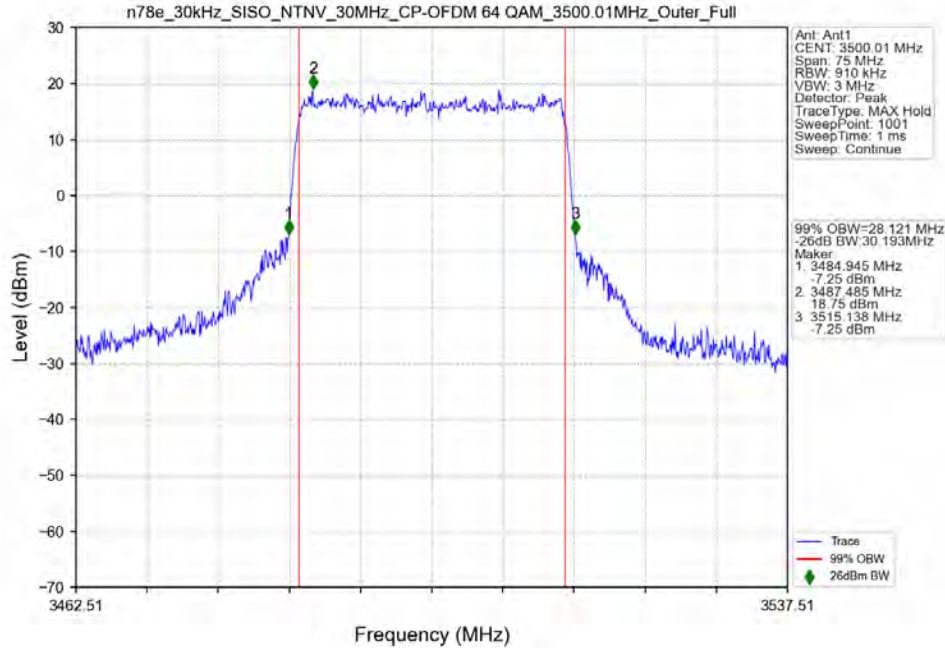
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n78e_30kHz_SISO_NTNV_30MHz_CP-OFDM 64 QAM_3500.01MHz_Outer_Full



n78e_30kHz_SISO_NTNV_30MHz_CP-OFDM 64 QAM_3534.99MHz_Outer_Full



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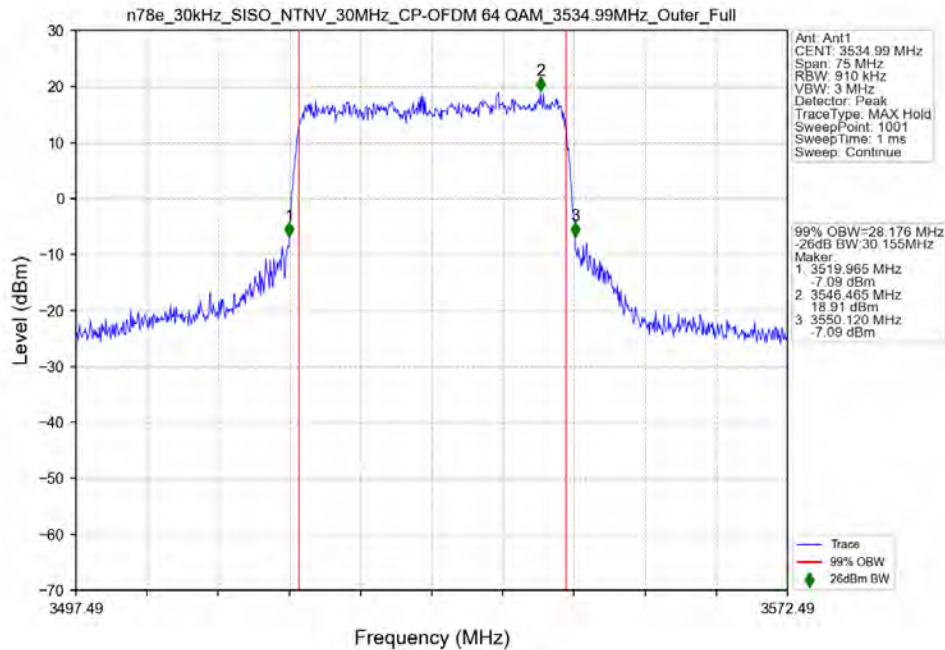


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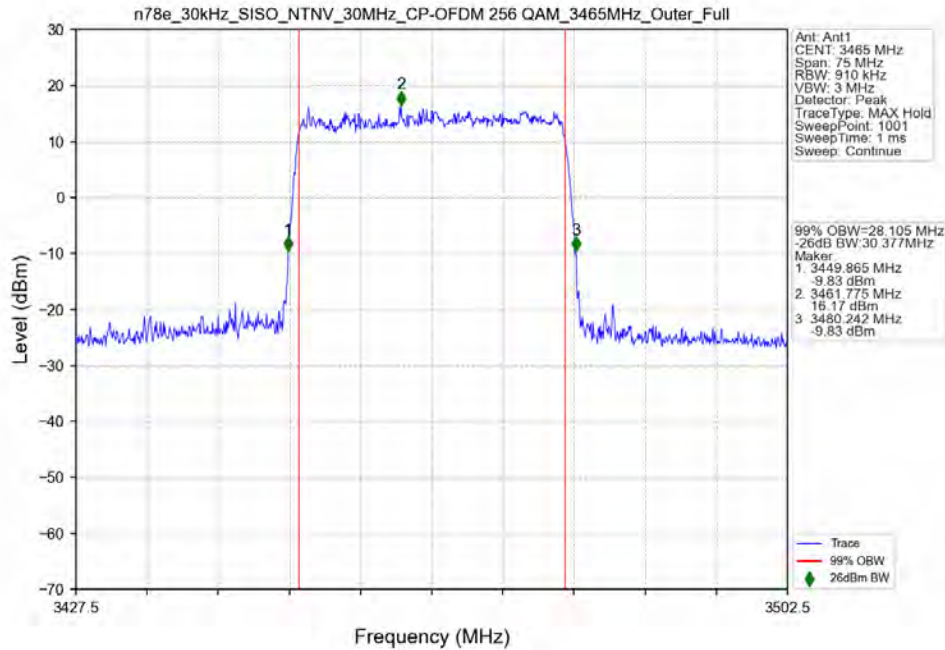
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n78e_30kHz_SISO_NTNV_30MHz_CP-OFDM_256_QAM_3465MHz_Outer_Full



n78e_30kHz_SISO_NTNV_30MHz_CP-OFDM_256_QAM_3500.01MHz_Outer_Full



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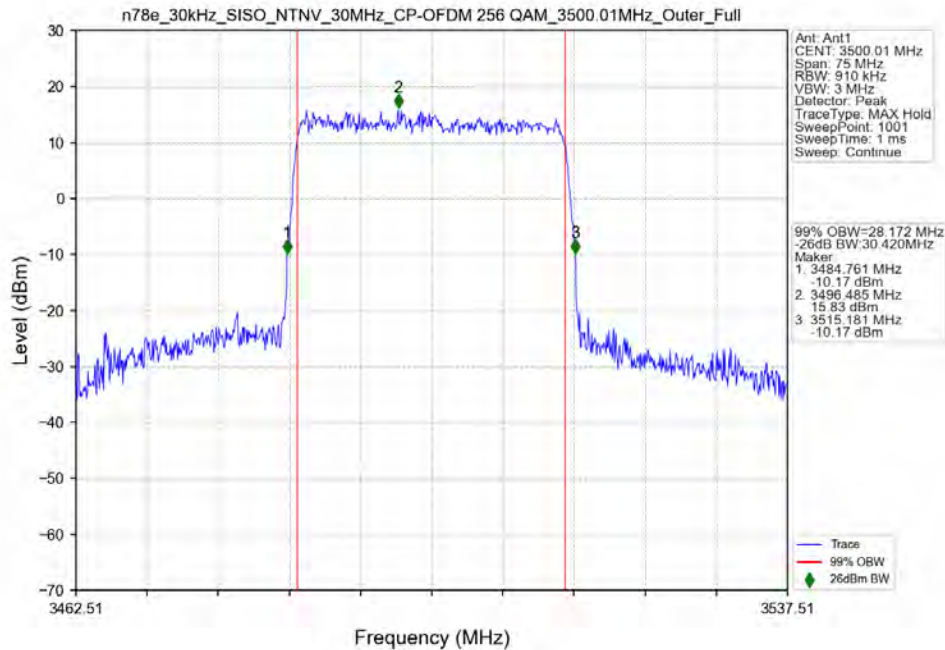


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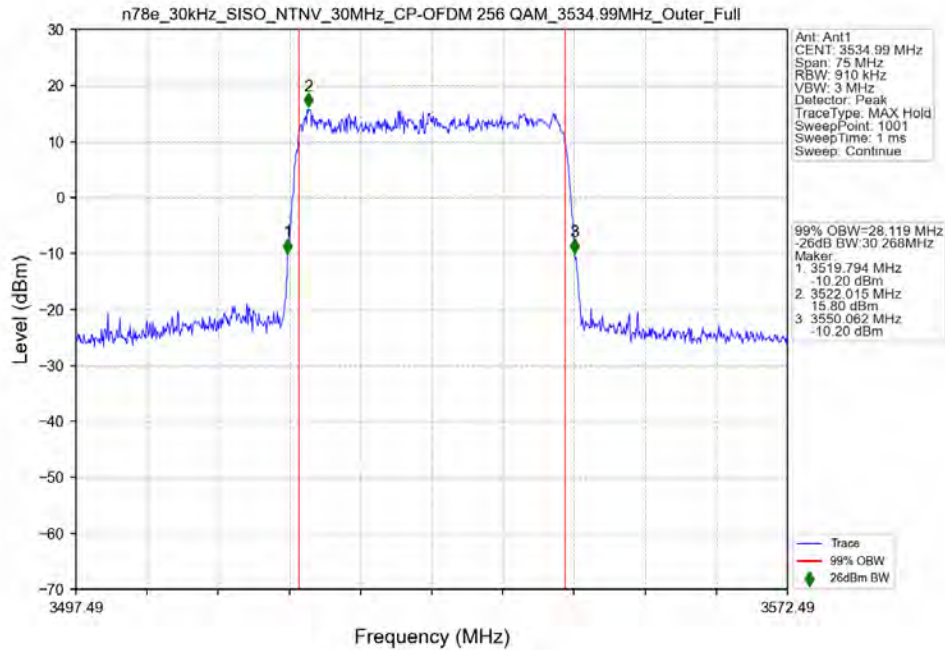
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3.3 30k_SISO_40MHz_NTNV

3.3.1 Test Result

5G NR n78e 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	3470.01	Outer Full	35.96	38.61	/	Pass
	3500.01	Outer Full	36.03	38.65	/	Pass
	3529.98	Outer Full	36.29	38.53	/	Pass
DFT-s-OFDM QPSK	3470.01	Outer Full	35.94	38.73	/	Pass
	3500.01	Outer Full	36.10	38.74	/	Pass
	3529.98	Outer Full	36.08	38.81	/	Pass
DFT-s-OFDM 16 QAM	3470.01	Outer Full	35.89	38.67	/	Pass
	3500.01	Outer Full	36.23	38.51	/	Pass
	3529.98	Outer Full	36.22	38.33	/	Pass
DFT-s-OFDM 64 QAM	3470.01	Outer Full	36.04	38.68	/	Pass
	3500.01	Outer Full	36.02	38.61	/	Pass
	3529.98	Outer Full	36.13	38.67	/	Pass
DFT-s-OFDM 256 QAM	3470.01	Outer Full	36.02	38.75	/	Pass
	3500.01	Outer Full	36.07	38.68	/	Pass
	3529.98	Outer Full	36.41	38.73	/	Pass
CP-OFDM QPSK	3470.01	Outer Full	37.98	40.81	/	Pass
	3500.01	Outer Full	38.10	40.89	/	Pass
	3529.98	Outer Full	38.18	40.78	/	Pass
CP-OFDM 16 QAM	3470.01	Outer Full	38.07	40.71	/	Pass
	3500.01	Outer Full	38.21	40.88	/	Pass
	3529.98	Outer Full	38.20	40.95	/	Pass
CP-OFDM 64 QAM	3470.01	Outer Full	38.09	40.75	/	Pass
	3500.01	Outer Full	38.14	40.93	/	Pass
	3529.98	Outer Full	38.23	40.87	/	Pass
CP-OFDM 256 QAM	3470.01	Outer Full	38.19	40.77	/	Pass
	3500.01	Outer Full	38.18	40.72	/	Pass
	3529.98	Outer Full	38.40	41.02	/	Pass



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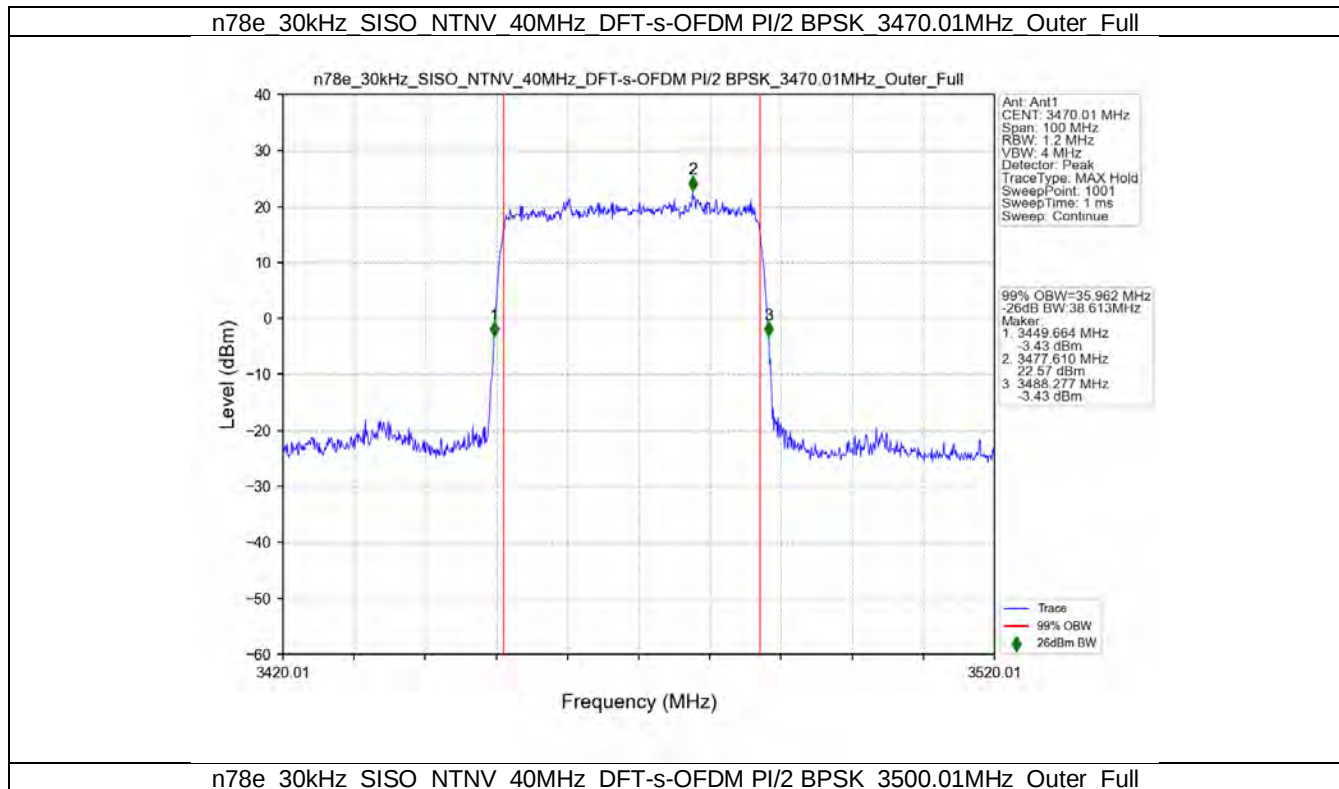
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3.3.2 Test Graph



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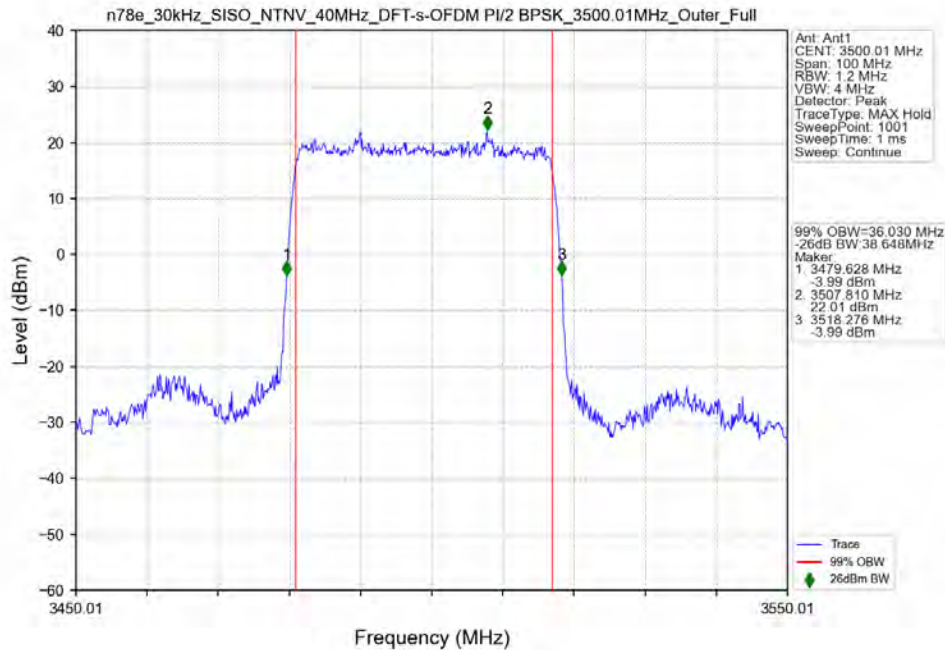


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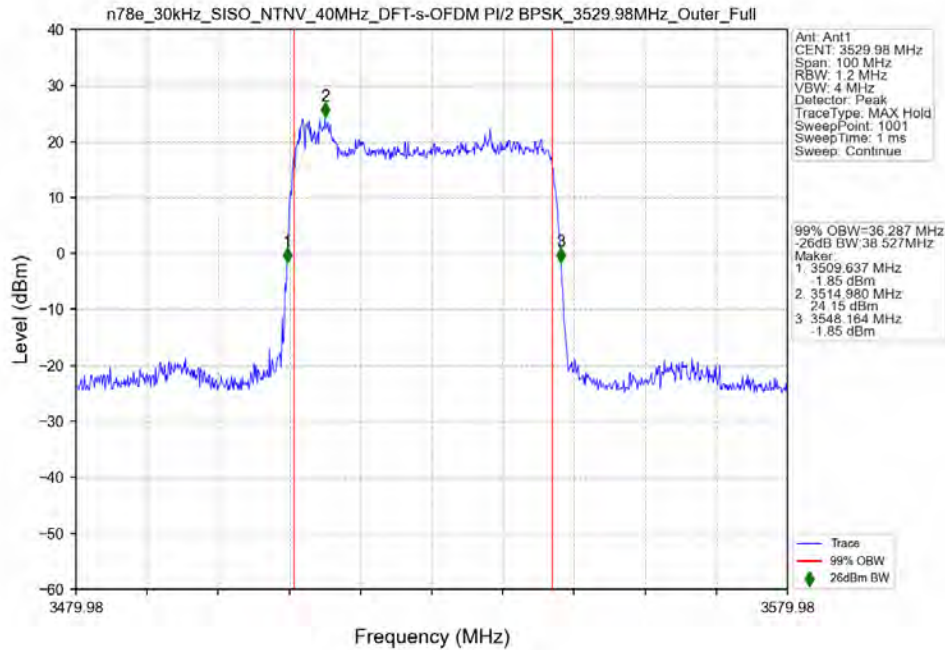
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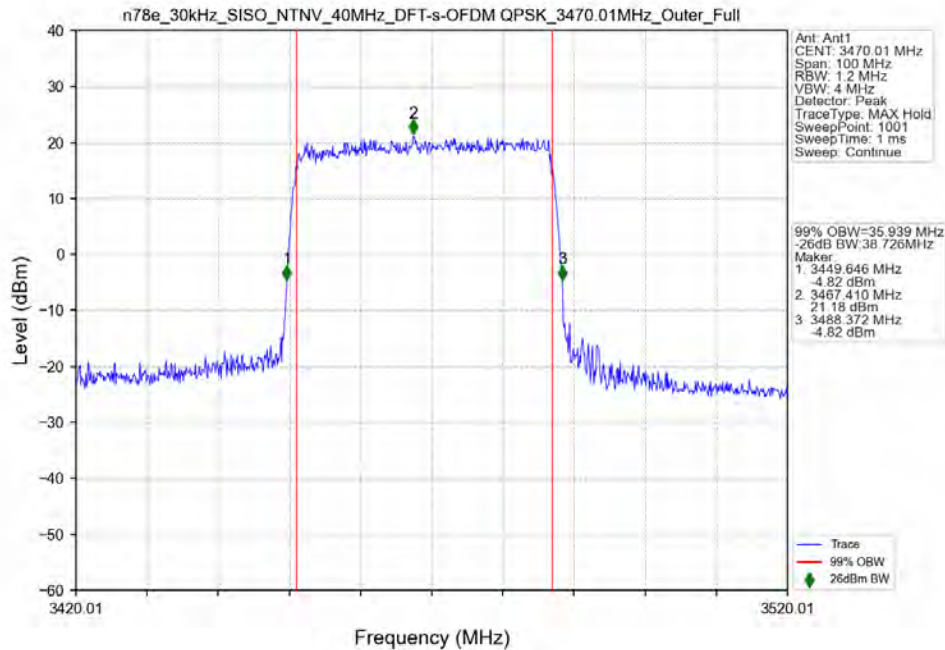


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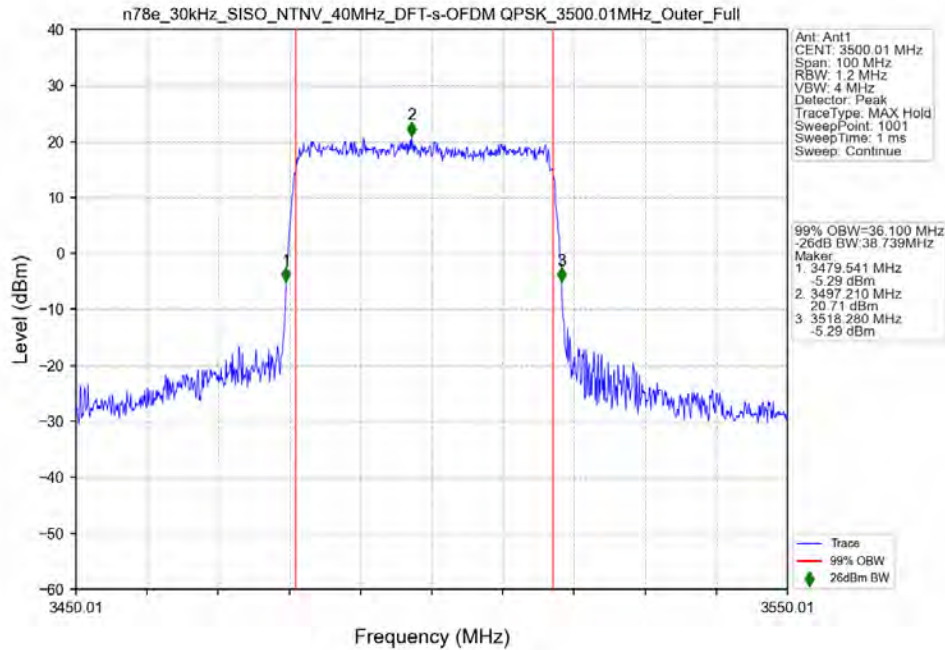
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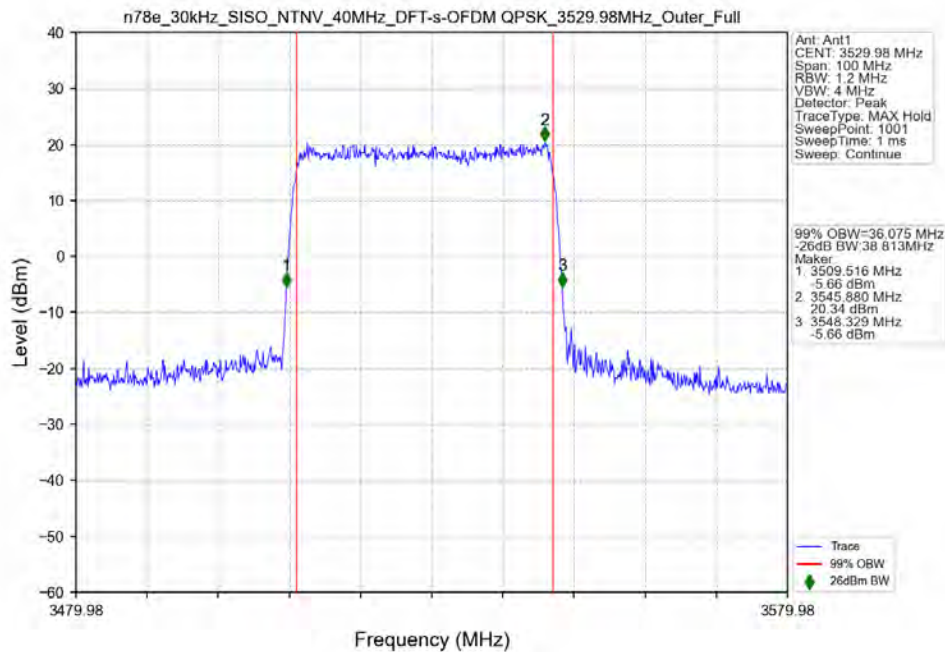


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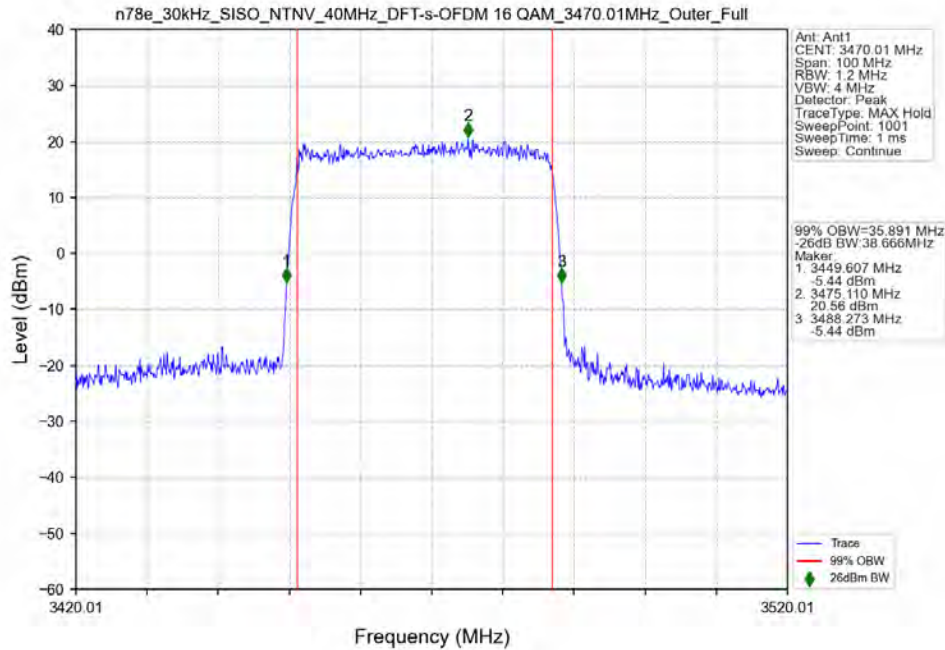
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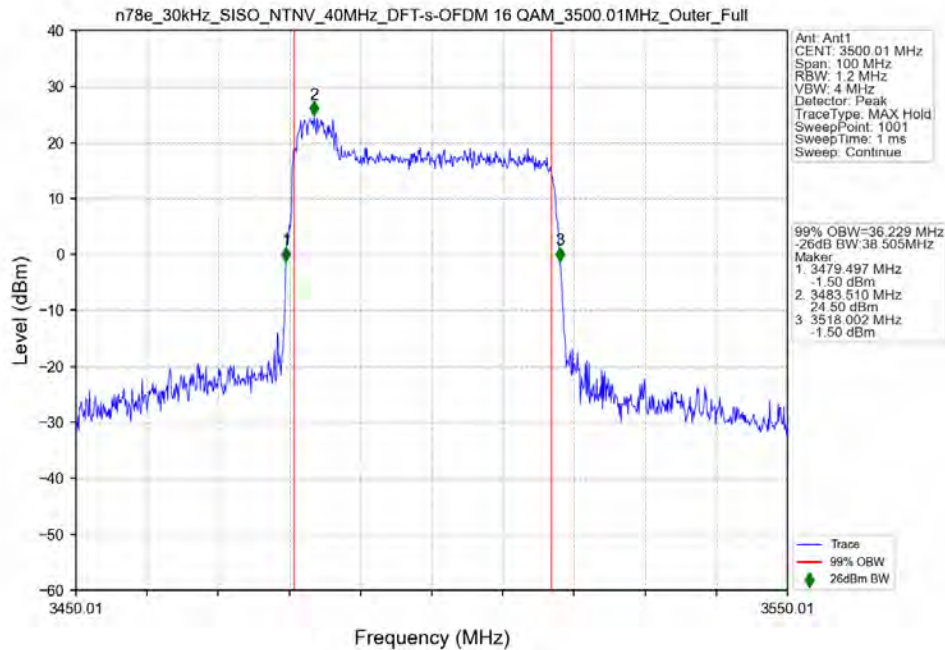


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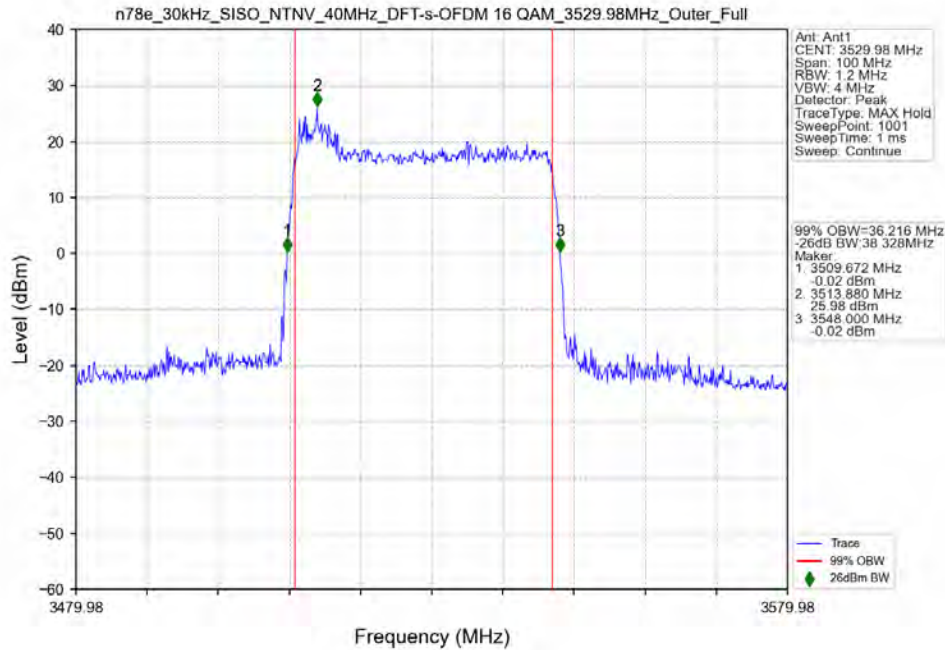
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n78e_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM 64 QAM_3470.01MHz_Outer_Full



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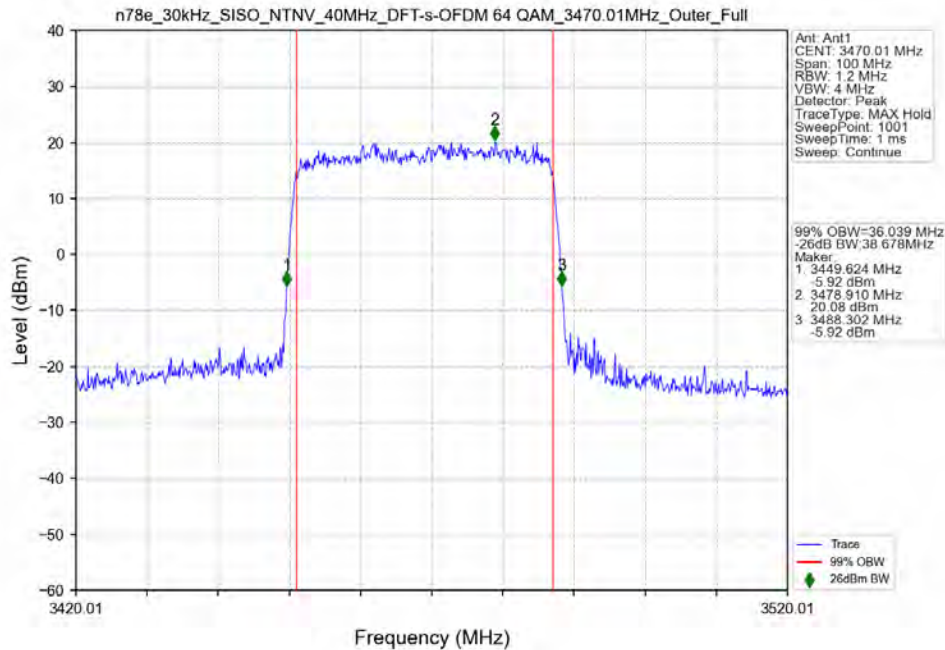


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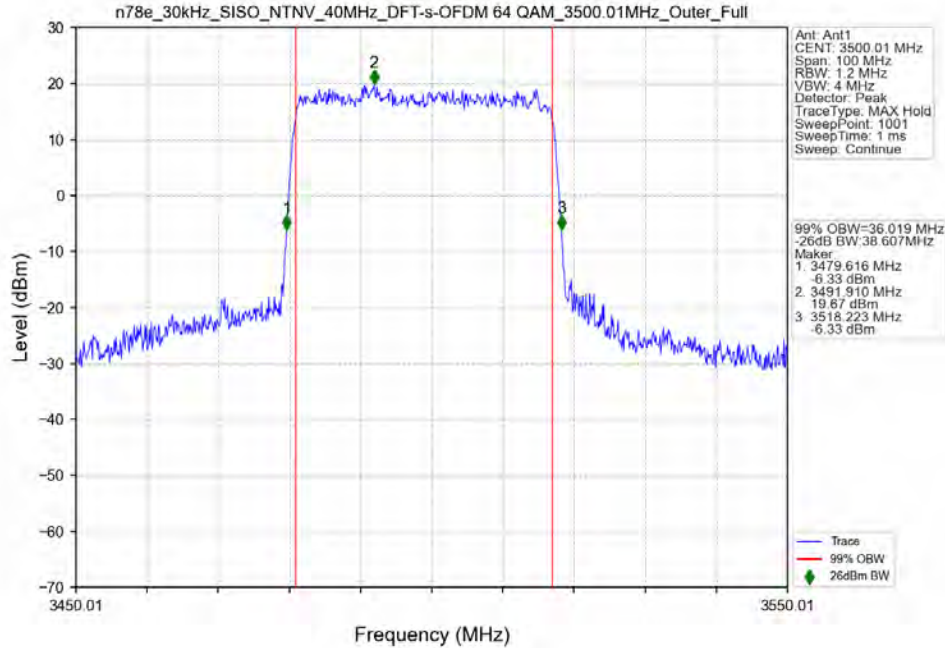
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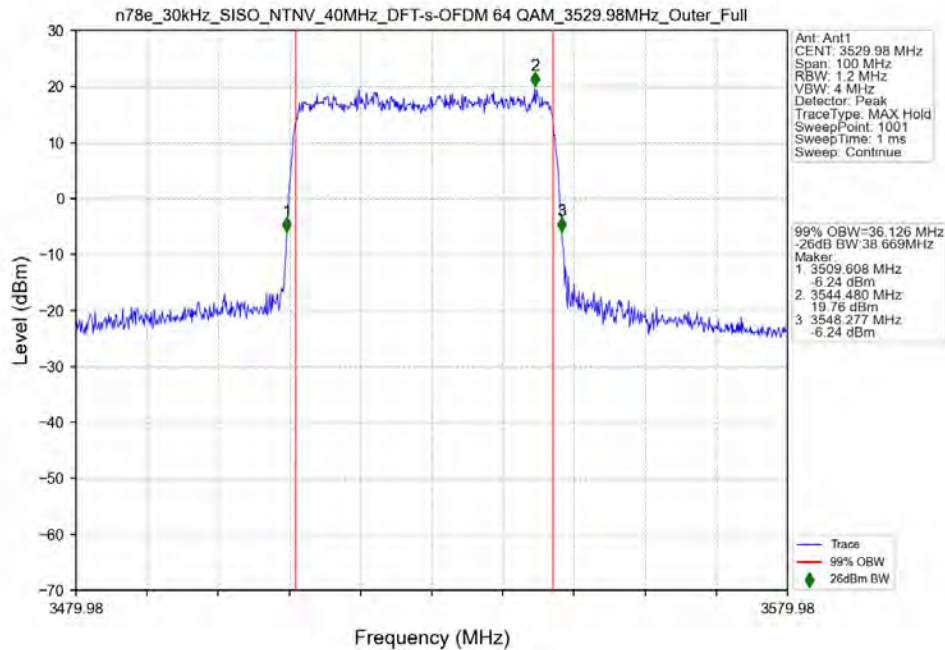


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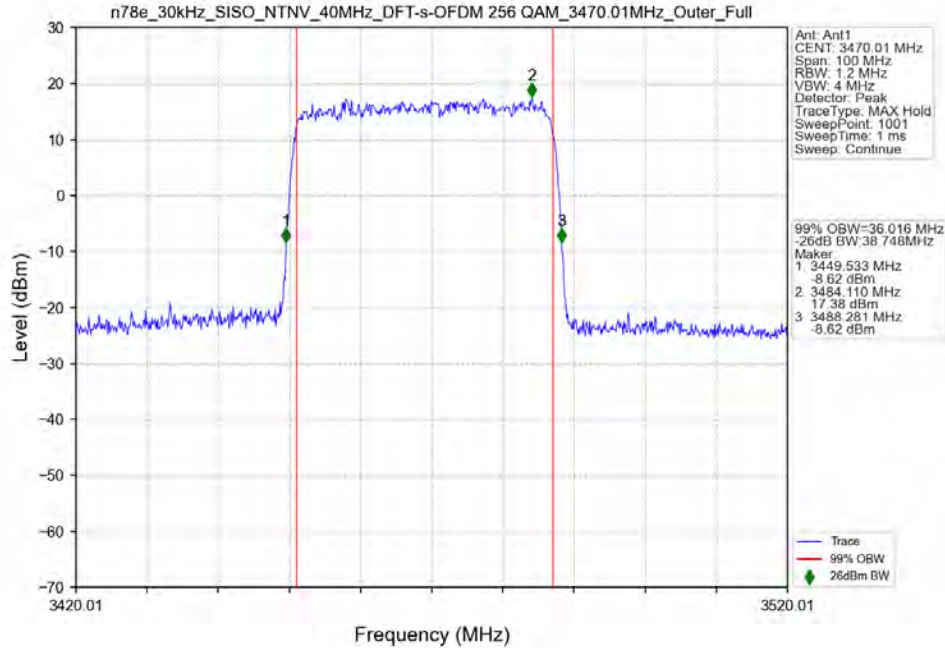
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n78e_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_256_QAM_3500.01MHz_Outer_Full



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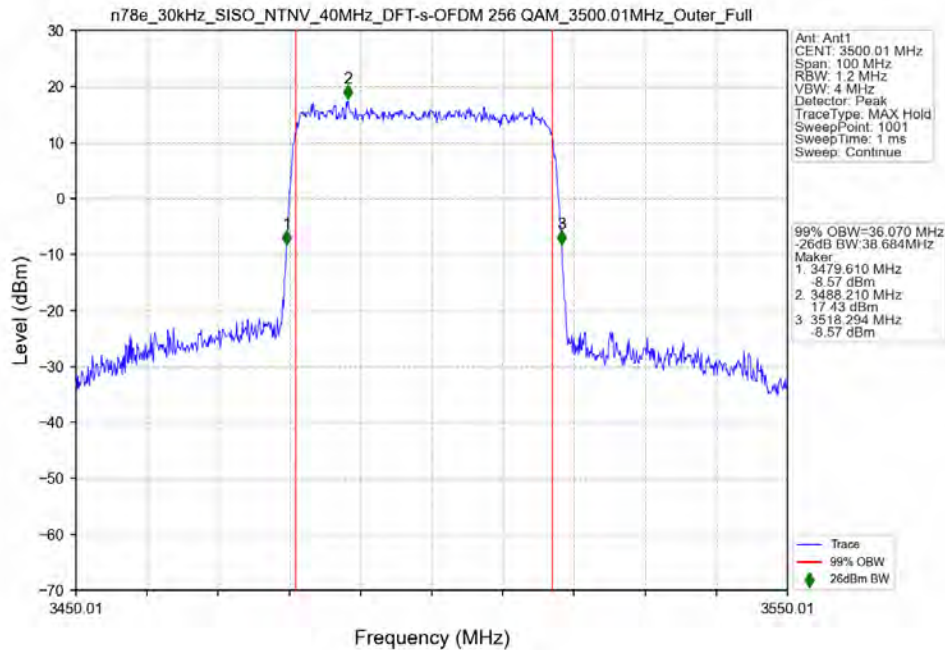


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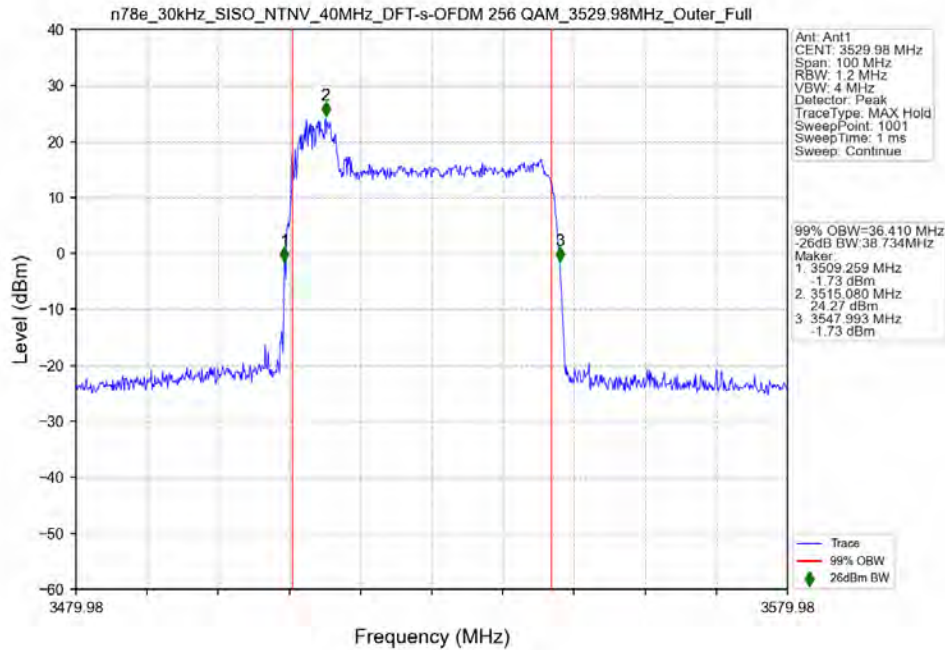
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n78e_30kHz_SISO_NTNV_40MHz_CP-OFDM_QPSK_3470.01MHz_Outer_Full



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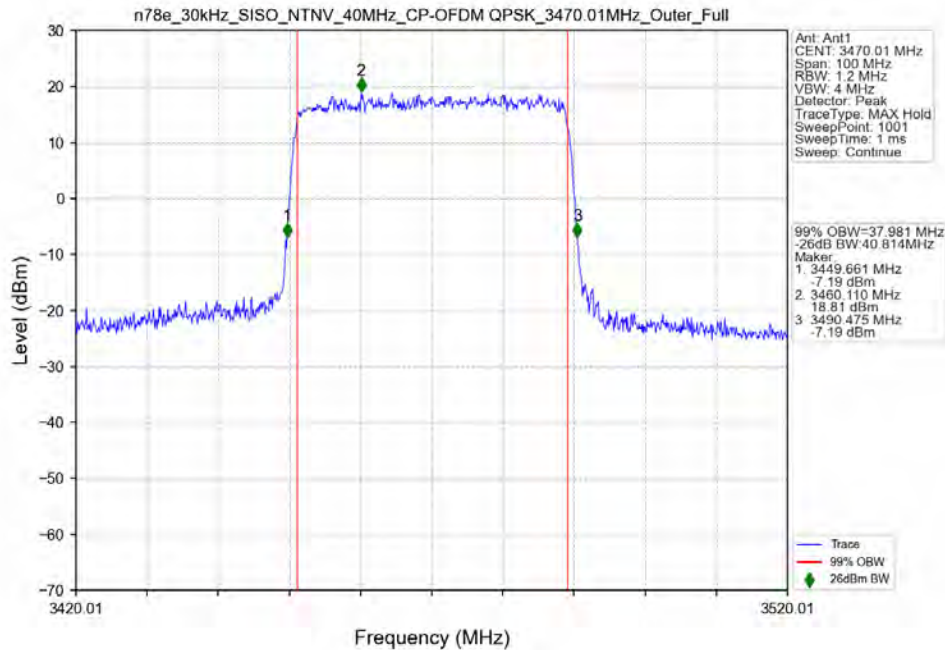


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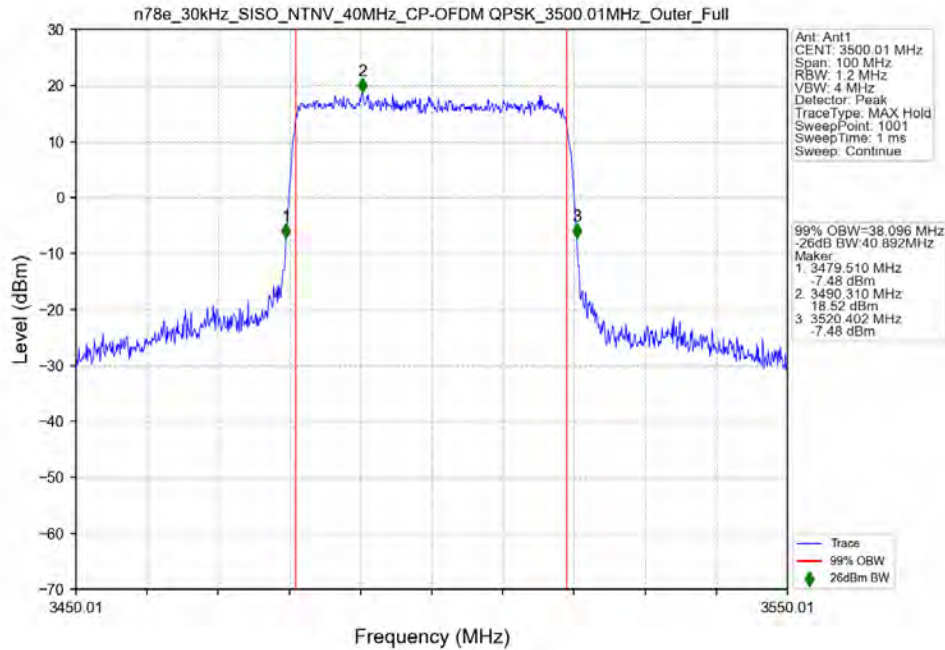
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n78e_30kHz_SISO_NTNV_40MHz_CP-OFDM QPSK_3529.98MHz_Outer_Full



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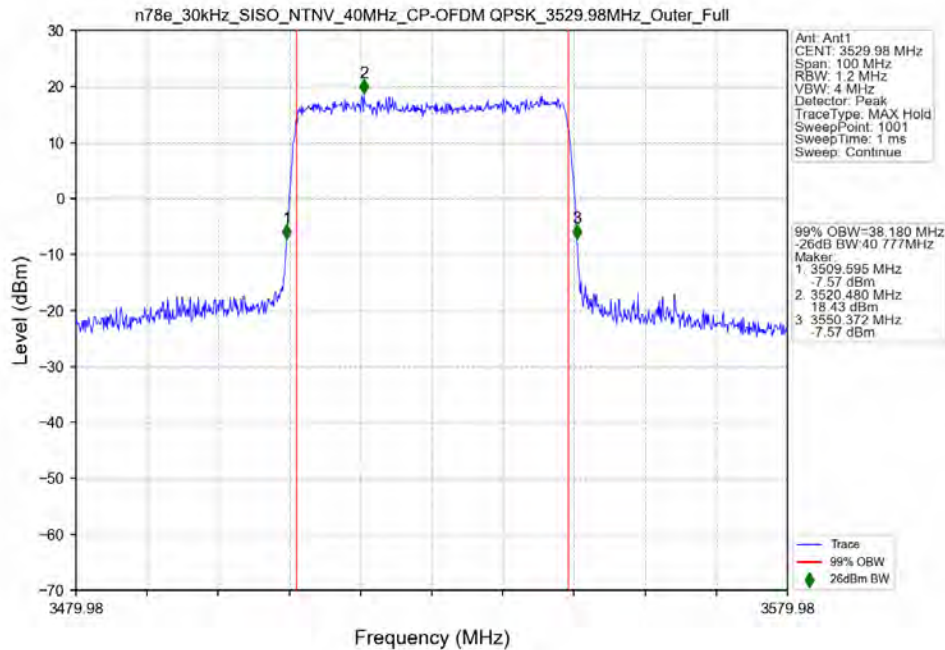


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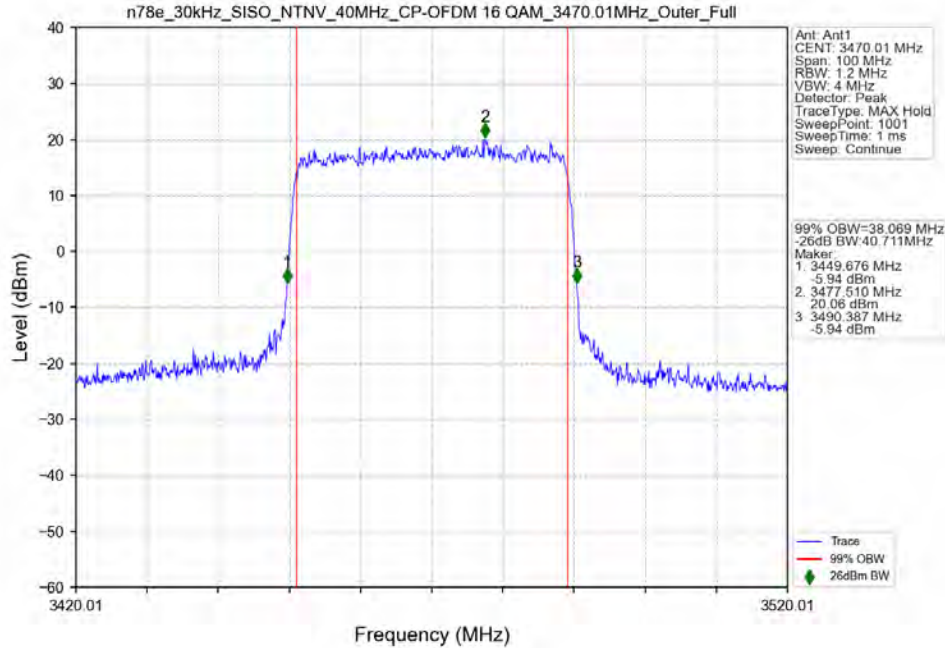
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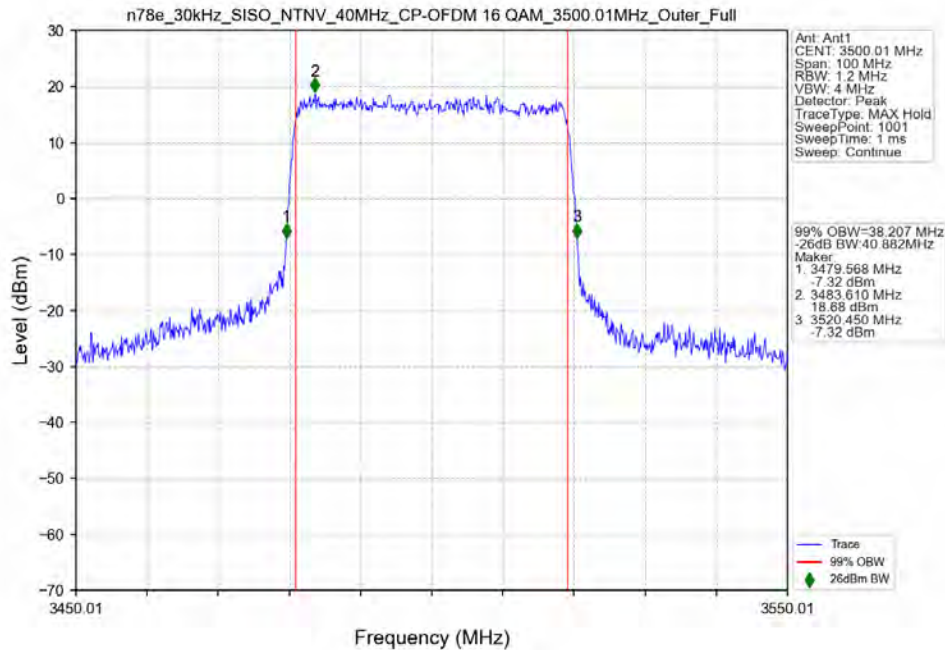


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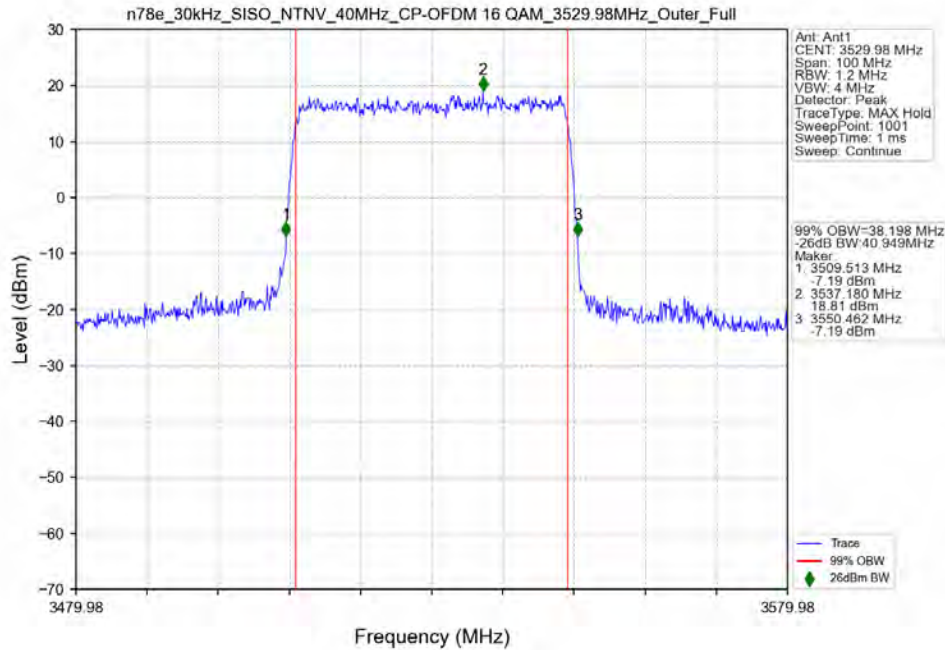
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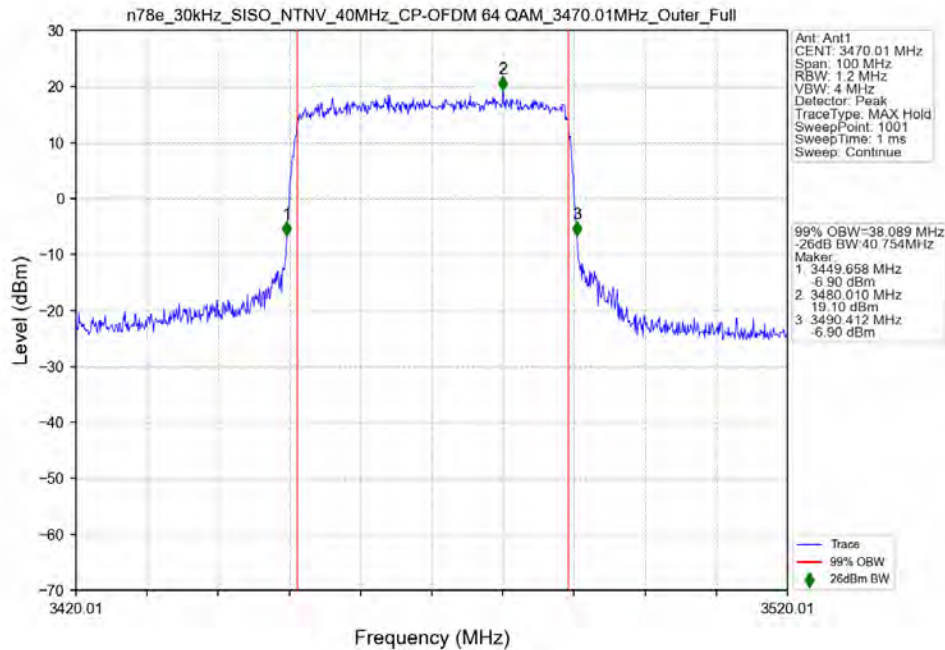


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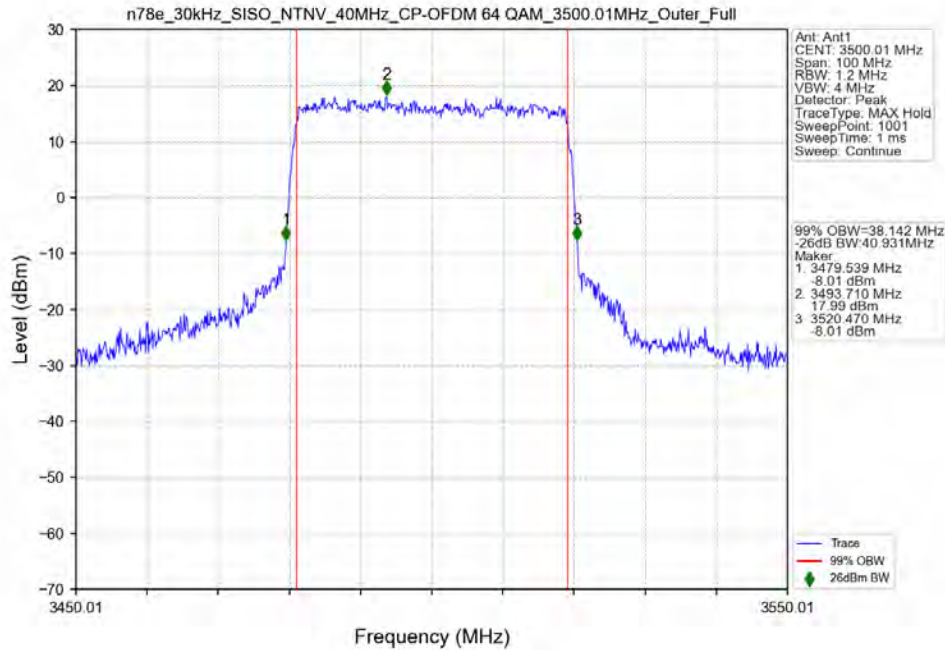
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n78e_30kHz_SISO_NTNV_40MHz_CP-OFDM 64 QAM_3500.01MHz_Outer_Full



n78e_30kHz_SISO_NTNV_40MHz_CP-OFDM 64 QAM_3529.98MHz_Outer_Full



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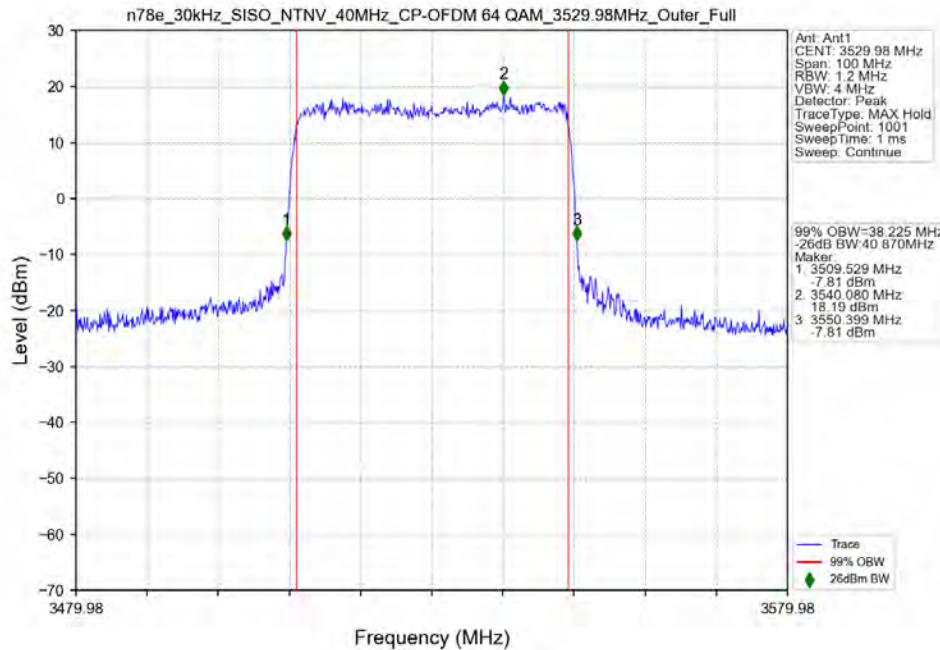


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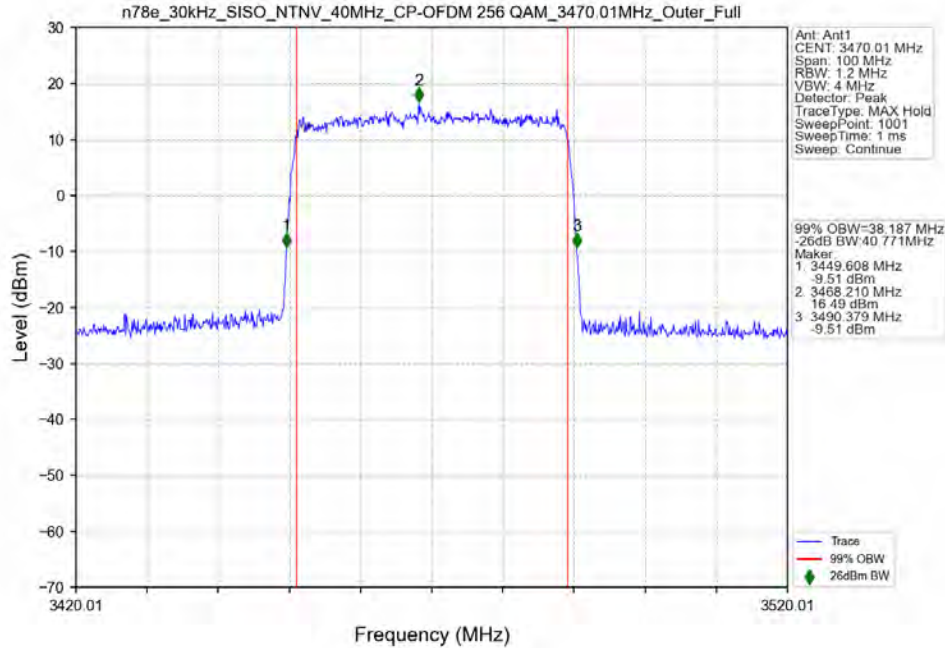
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n78e_30kHz_SISO_NTNV_40MHz_CP-OFDM_256_QAM_3470.01MHz_Outer_Full



n78e_30kHz_SISO_NTNV_40MHz_CP-OFDM_256_QAM_3500.01MHz_Outer_Full



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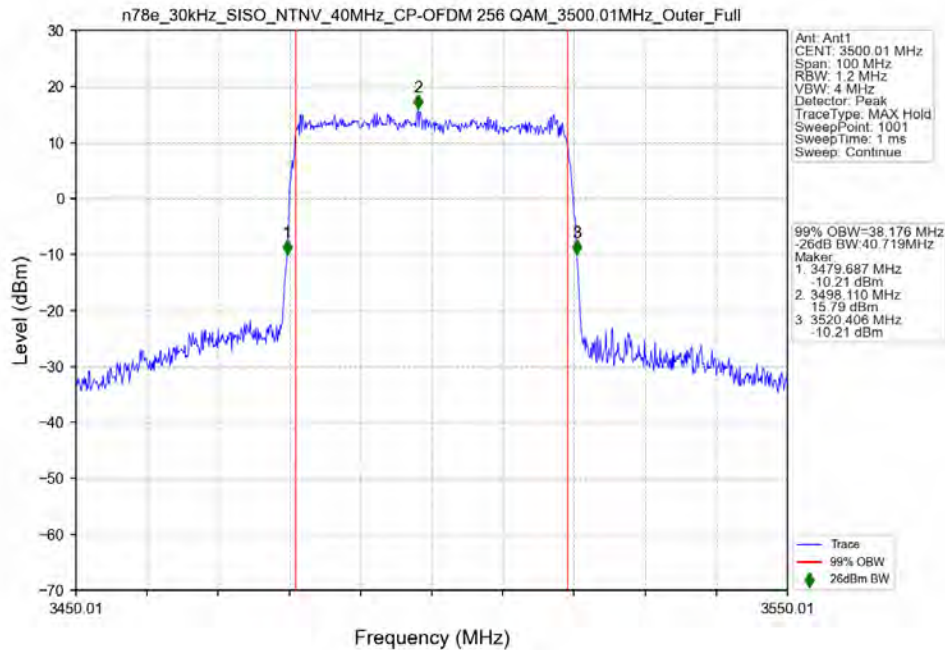


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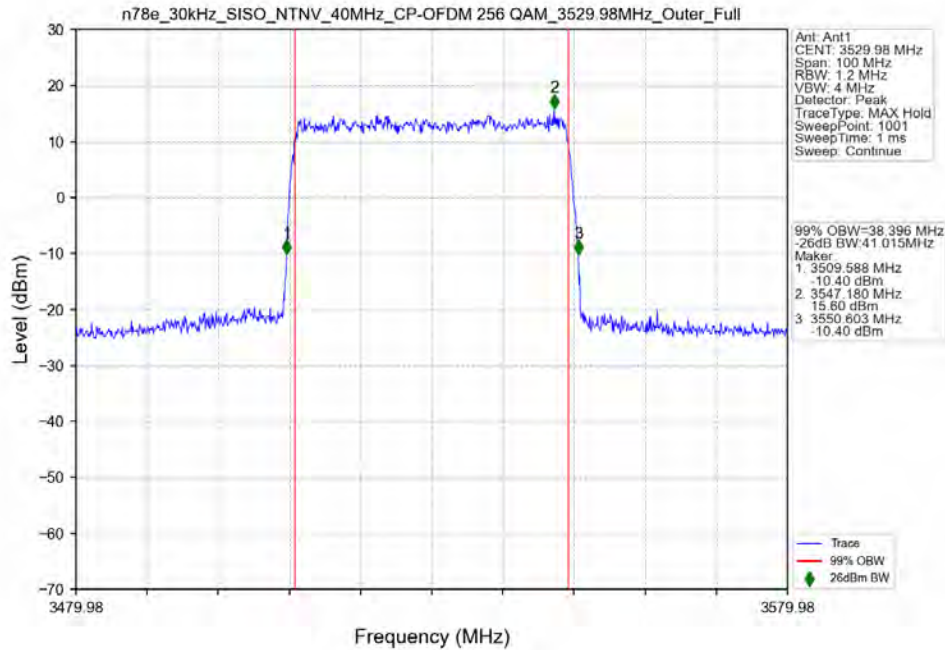
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n78e_30kHz_SISO_NTNV_40MHz_CP-OFDM_256_QAM_3529.98MHz_Outer_Full



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3.4 30k_SISO_50MHz_NTNV

3.4.1 Test Result

5G NR n78e SCS=30kHz SISO 50MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3475.02	Outer Full	46.41	49.12	/	Pass
	3500.01	Outer Full	46.26	49.22	/	Pass
	3525	Outer Full	46.28	49.30	/	Pass
DFT-s-OFDM QPSK	3475.02	Outer Full	46.14	49.32	/	Pass
	3500.01	Outer Full	46.17	49.38	/	Pass
	3525	Outer Full	46.25	49.49	/	Pass
DFT-s-OFDM 16 QAM	3475.02	Outer Full	46.24	49.35	/	Pass
	3500.01	Outer Full	46.35	49.12	/	Pass
	3525	Outer Full	46.28	49.46	/	Pass
DFT-s-OFDM 64 QAM	3475.02	Outer Full	45.99	49.19	/	Pass
	3500.01	Outer Full	46.06	49.21	/	Pass
	3525	Outer Full	46.19	49.30	/	Pass
DFT-s-OFDM 256 QAM	3475.02	Outer Full	45.93	49.29	/	Pass
	3500.01	Outer Full	46.13	49.29	/	Pass
	3525	Outer Full	46.13	49.39	/	Pass
CP-OFDM QPSK	3475.02	Outer Full	47.77	50.97	/	Pass
	3500.01	Outer Full	47.87	51.04	/	Pass
	3525	Outer Full	47.98	51.15	/	Pass
CP-OFDM 16 QAM	3475.02	Outer Full	47.84	51.29	/	Pass
	3500.01	Outer Full	47.84	51.19	/	Pass
	3525	Outer Full	47.93	51.10	/	Pass
CP-OFDM 64 QAM	3475.02	Outer Full	47.79	51.19	/	Pass
	3500.01	Outer Full	47.86	52.34	/	Pass
	3525	Outer Full	47.95	51.13	/	Pass
CP-OFDM 256 QAM	3475.02	Outer Full	47.75	51.13	/	Pass
	3500.01	Outer Full	47.81	51.12	/	Pass
	3525	Outer Full	47.96	51.11	/	Pass



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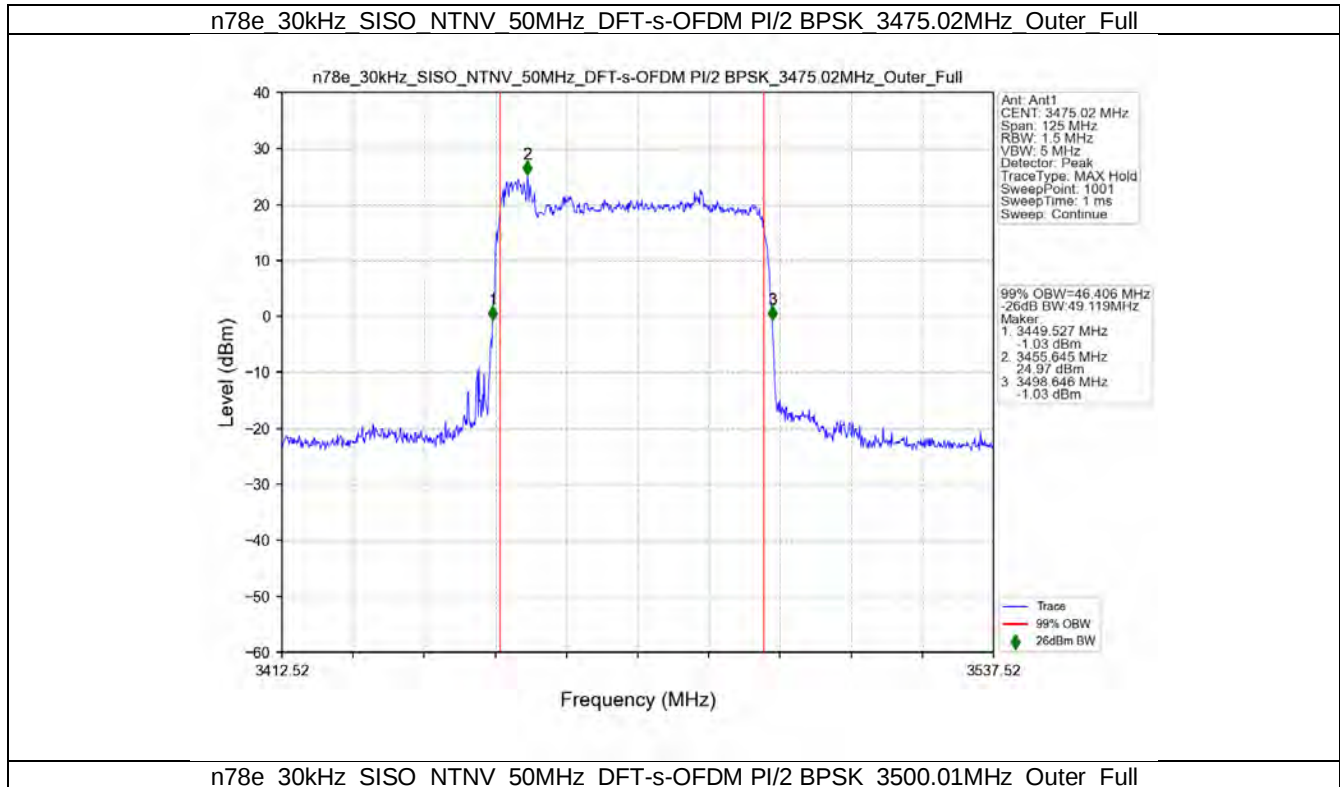
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3.4.2 Test Graph



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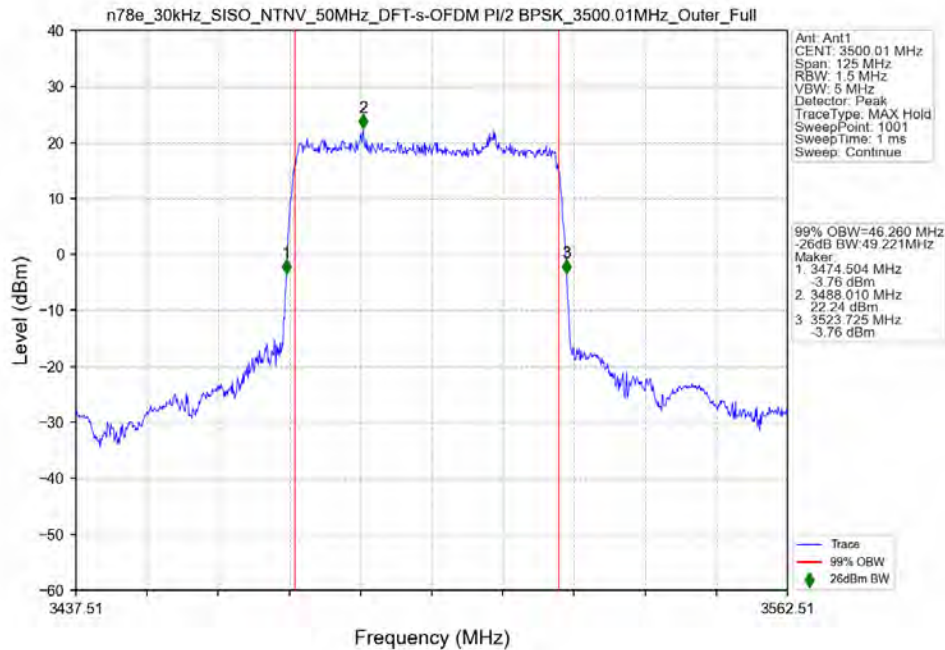


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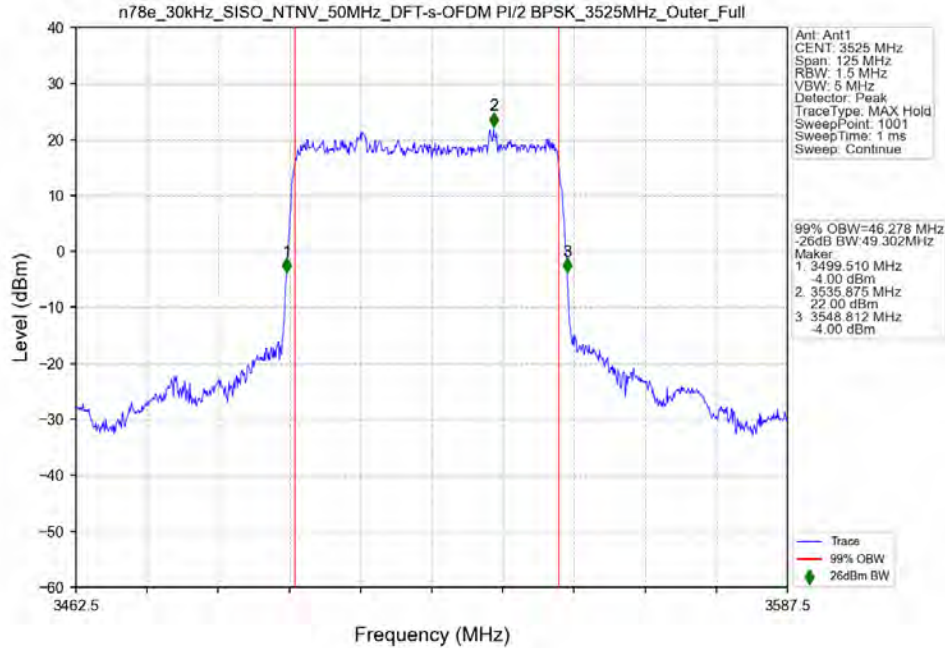
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n78e_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM PI/2 BPSK_3525MHz_Outer_Full



n78e_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM QPSK_3475.02MHz_Outer_Full



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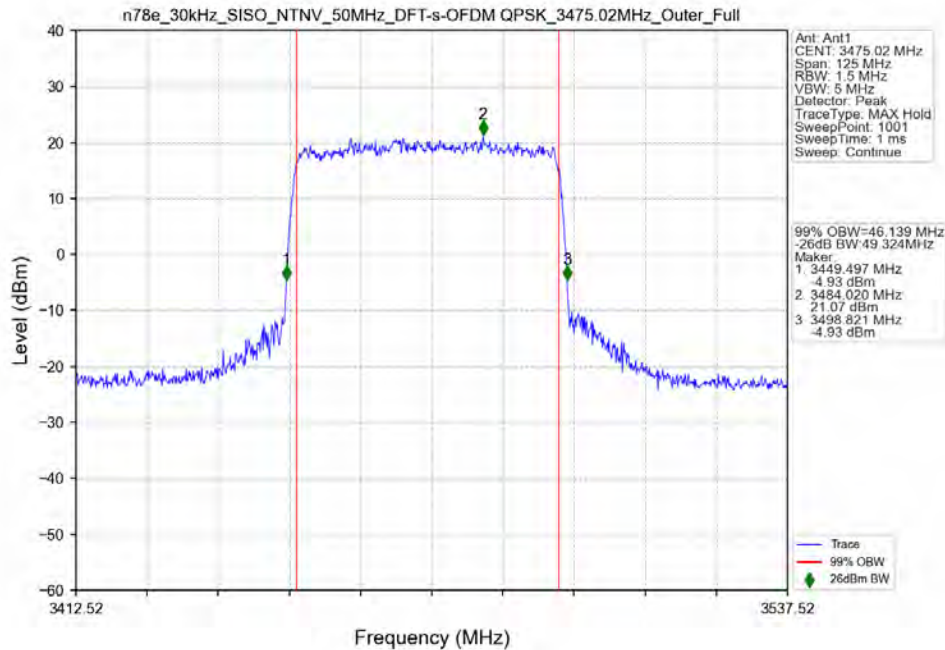


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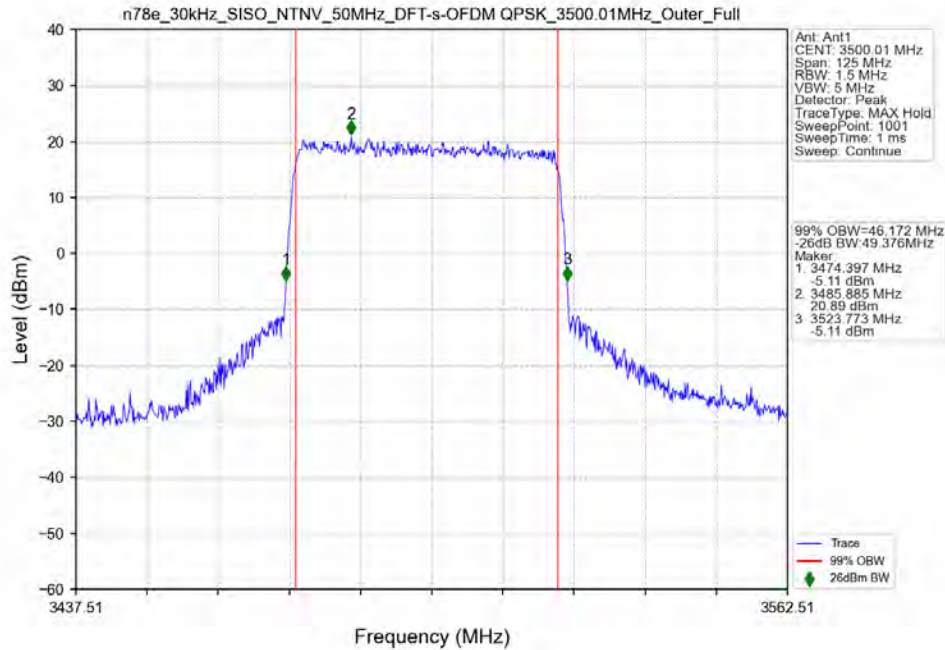
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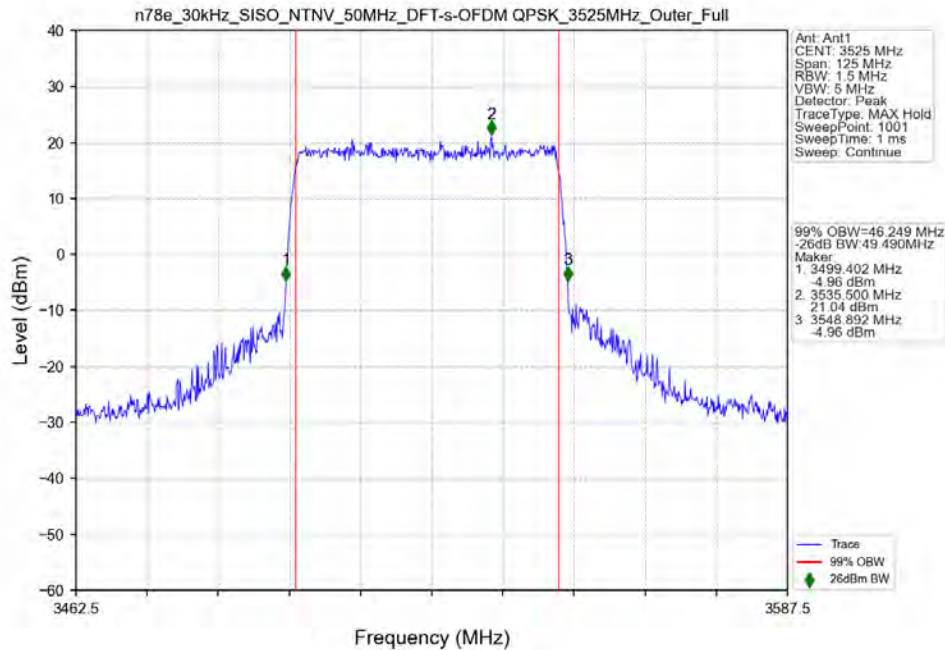


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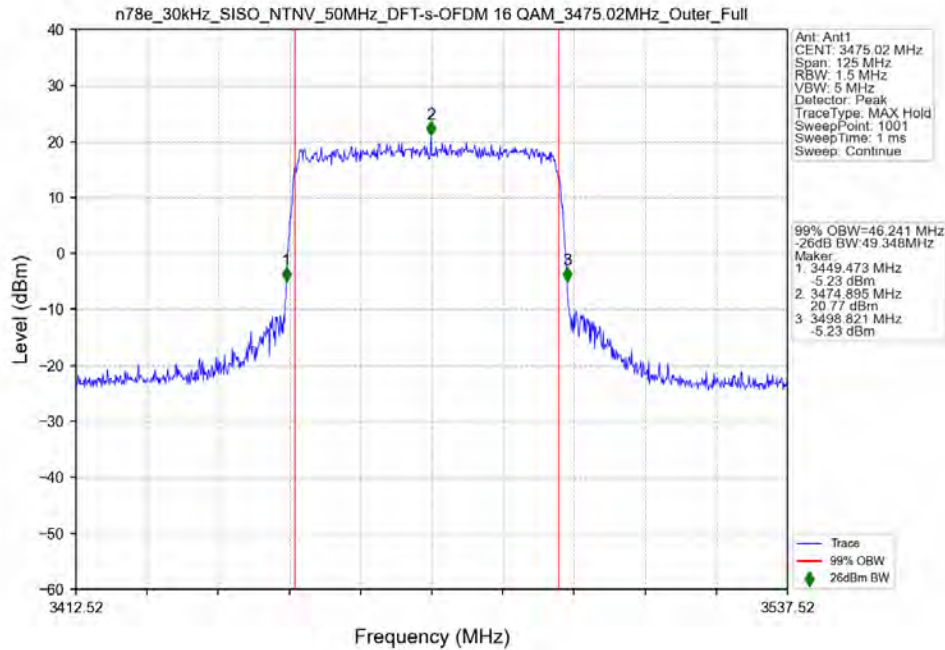
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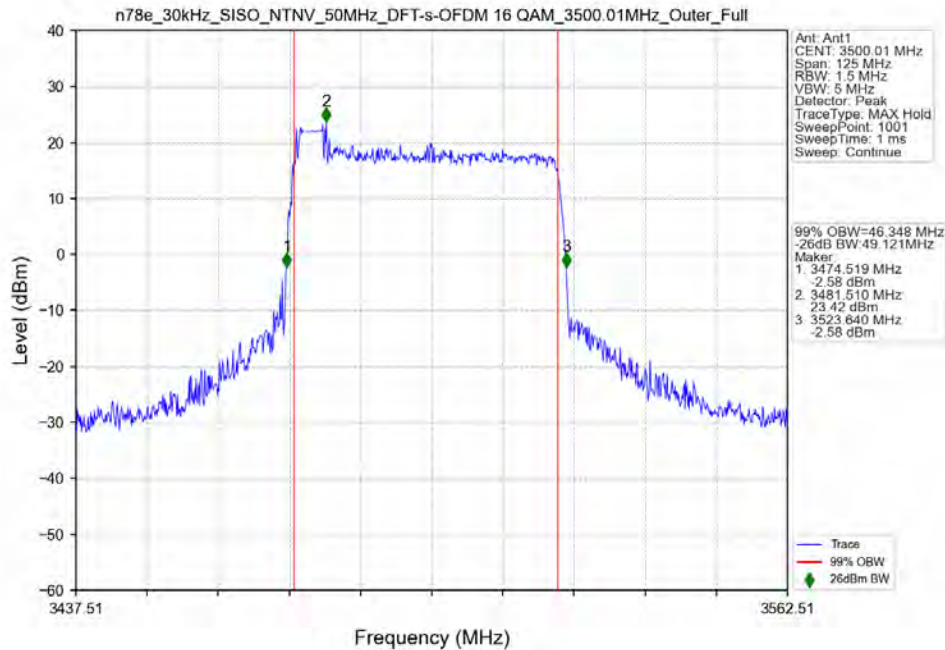


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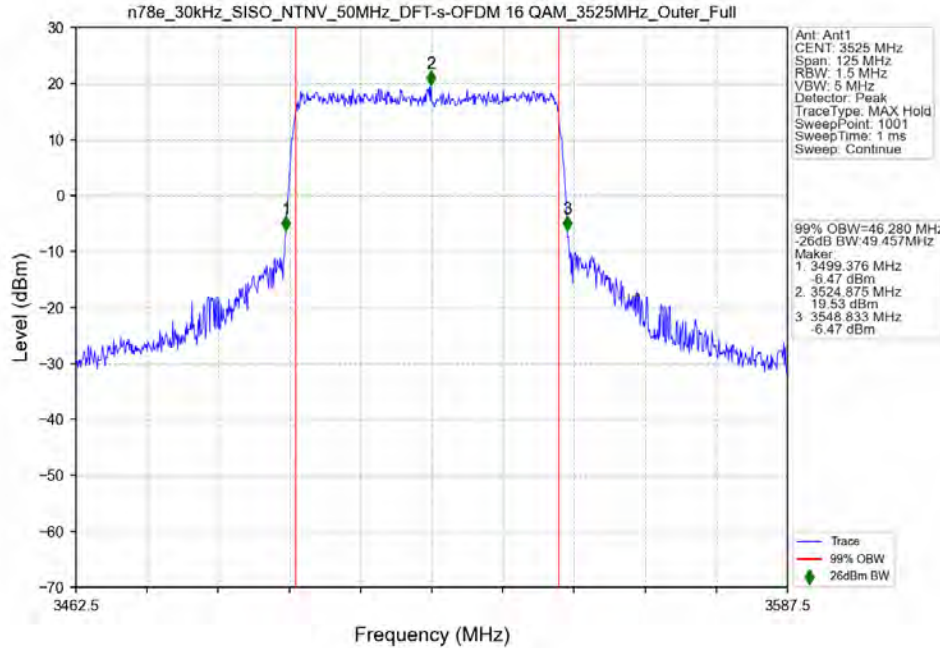
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n78e_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM 16 QAM_3525MHz_Outer_Full



n78e_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM 64 QAM_3475.02MHz_Outer_Full



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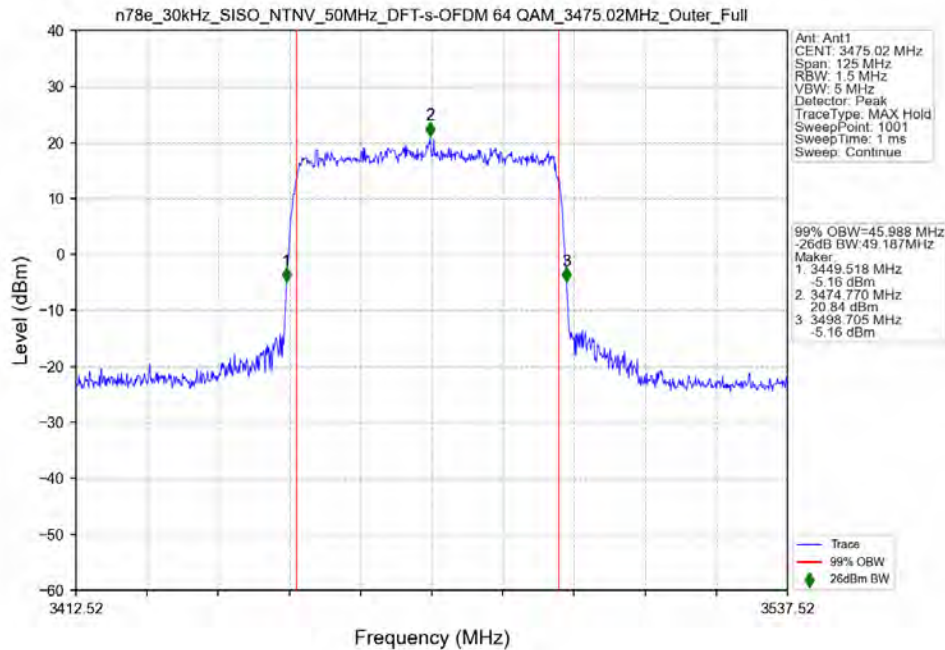


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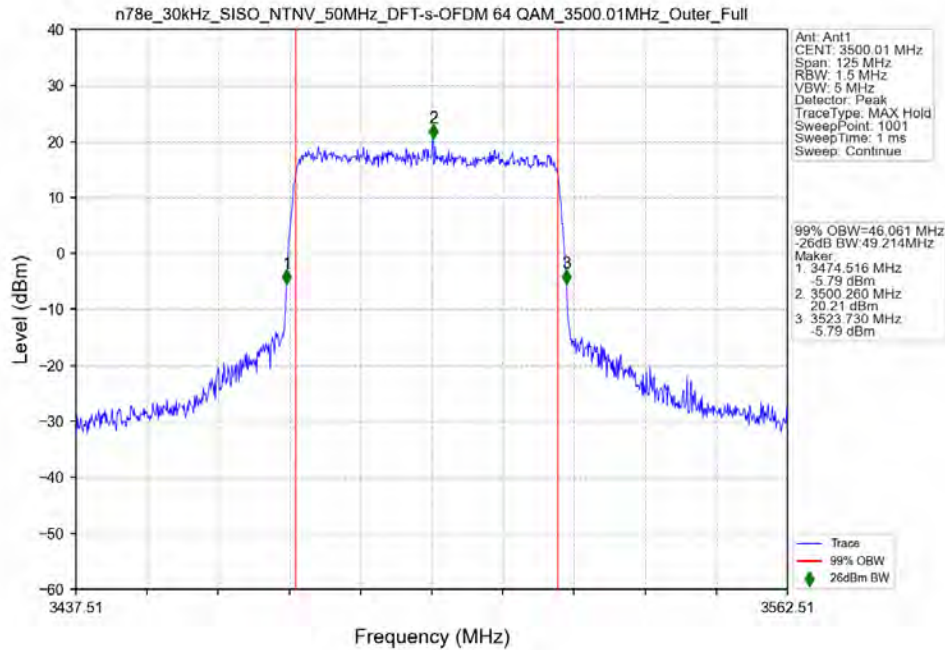
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n78e_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM 64 QAM_3525MHz_Outer_Full



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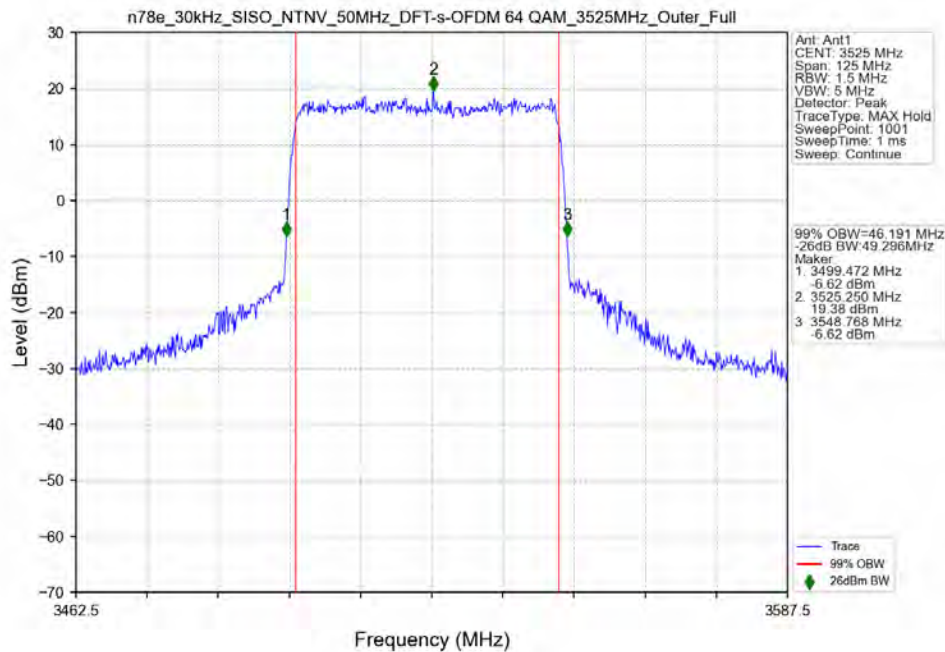


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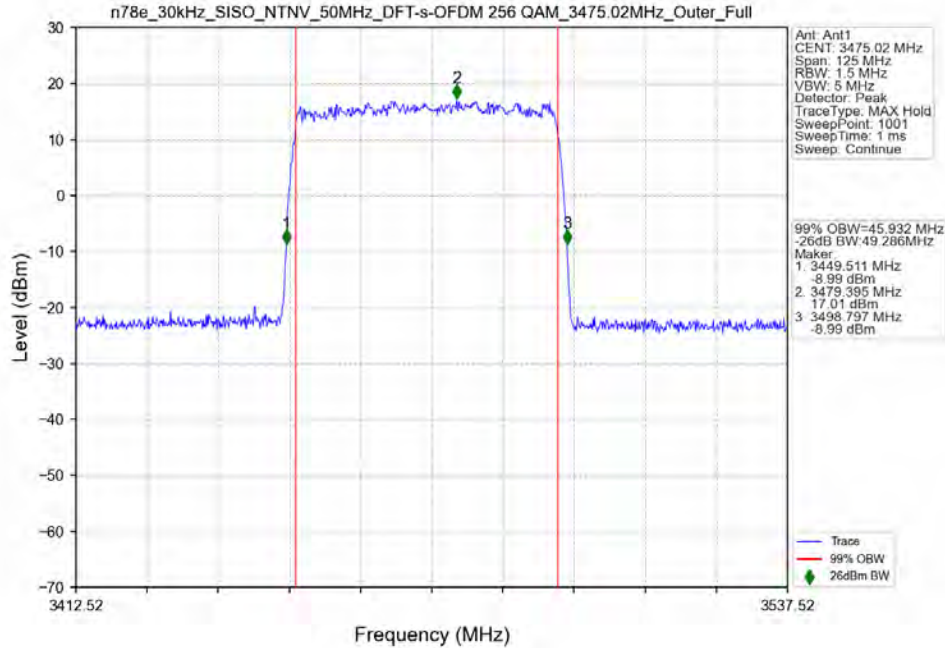
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n78e_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM_256_QAM_3500.01MHz_Outer_Full



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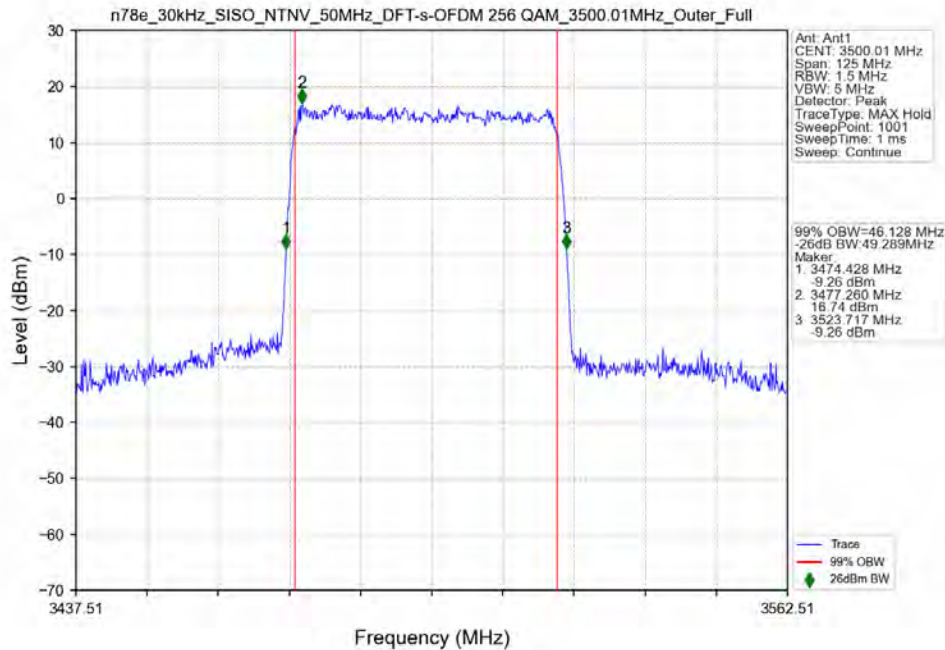


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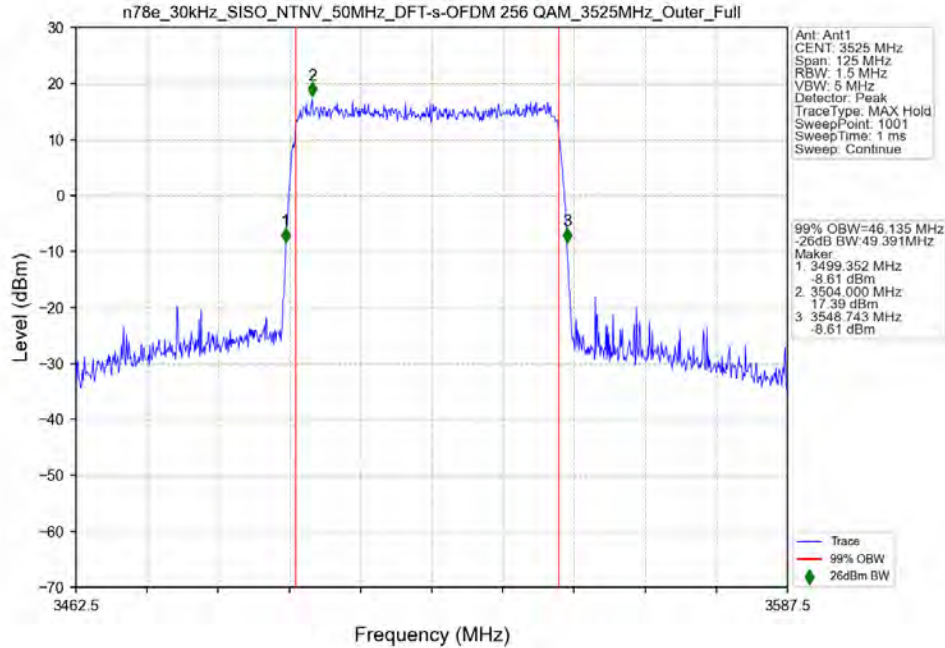
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n78e_30kHz_SISO_NTNV_50MHz_CP-OFDM_QPSK_3475.02MHz_Outer_Full



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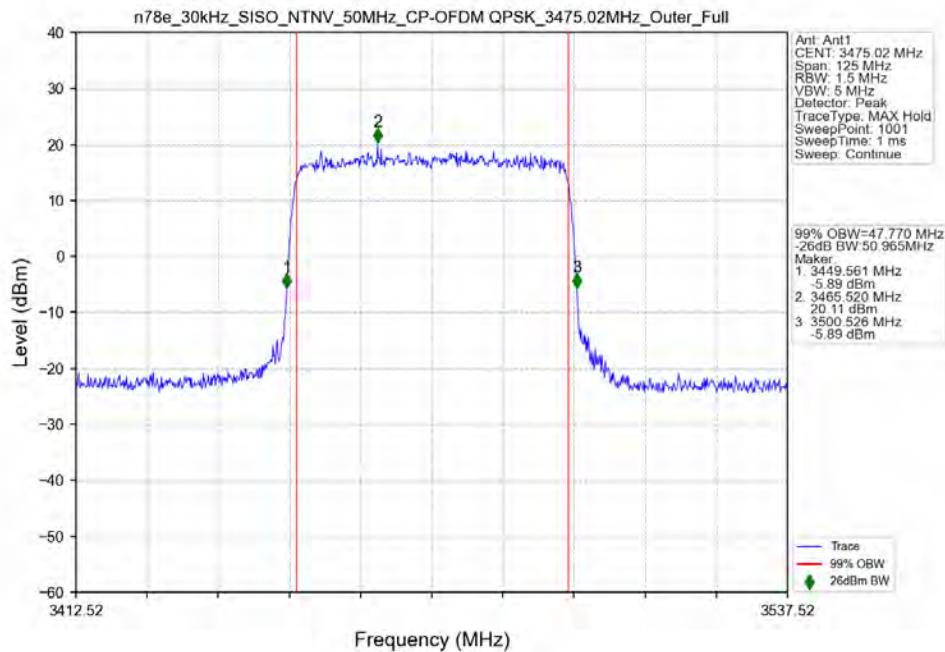


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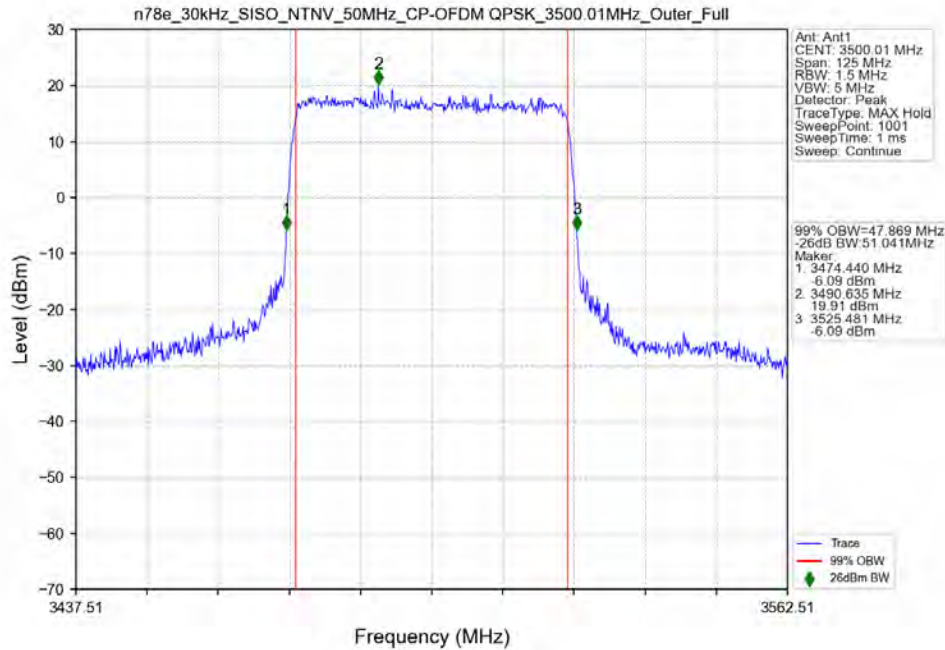
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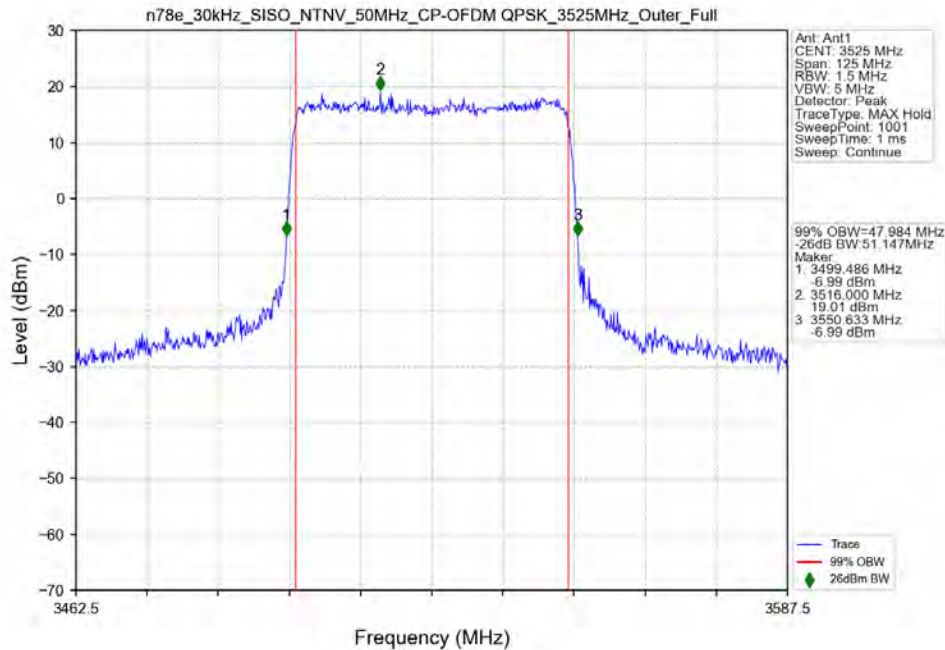


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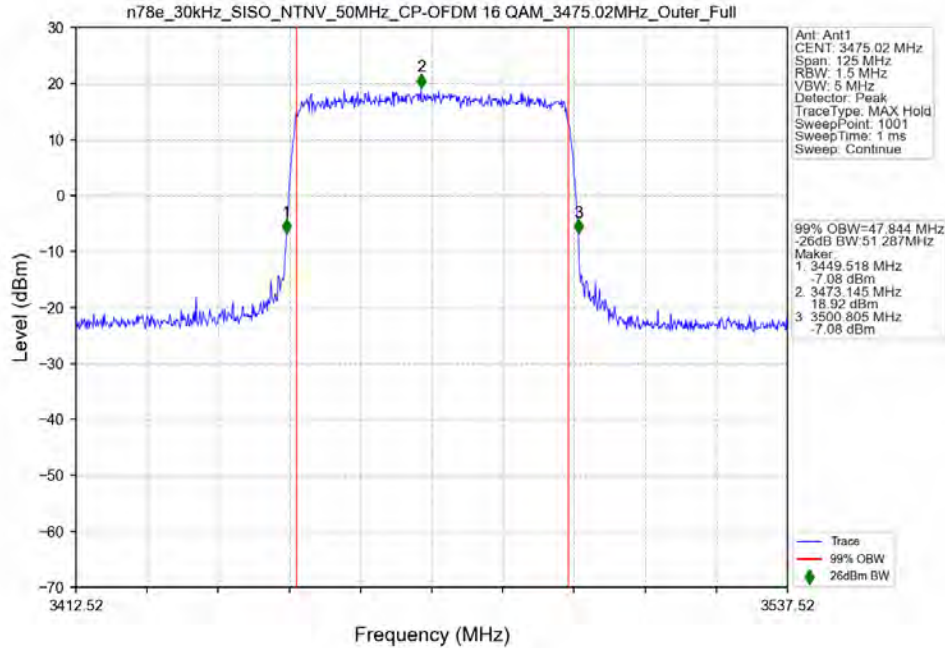
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n78e_30kHz_SISO_NTNV_50MHz_CP-OFDM 16 QAM 3500.01MHz_Outer_Full



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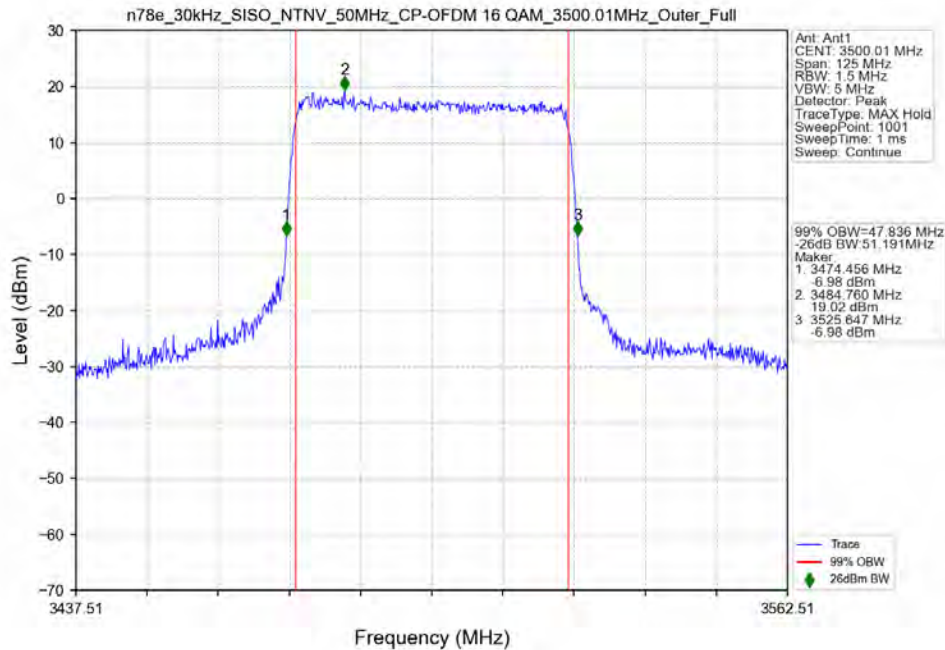


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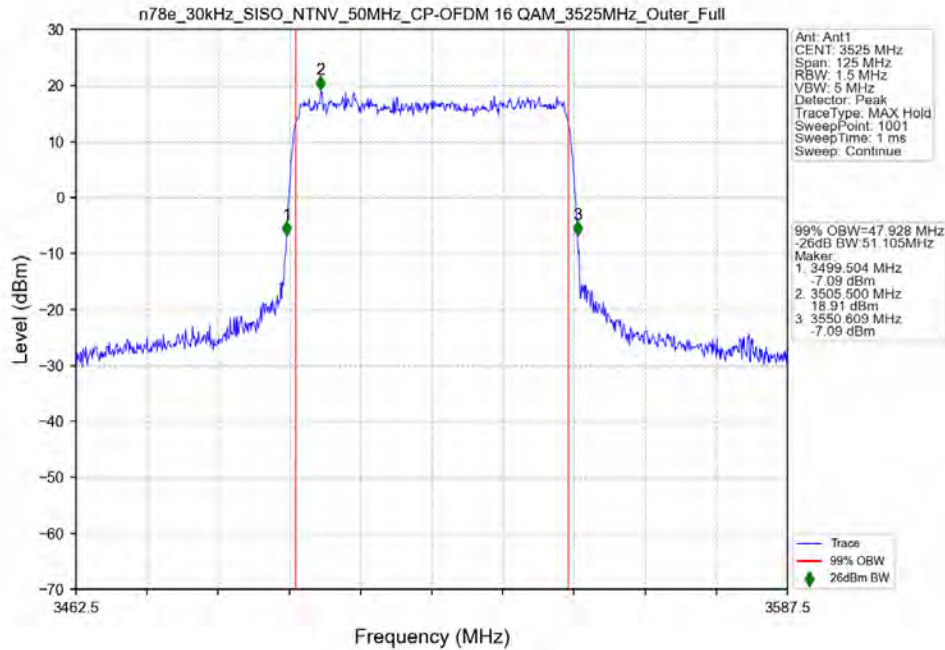
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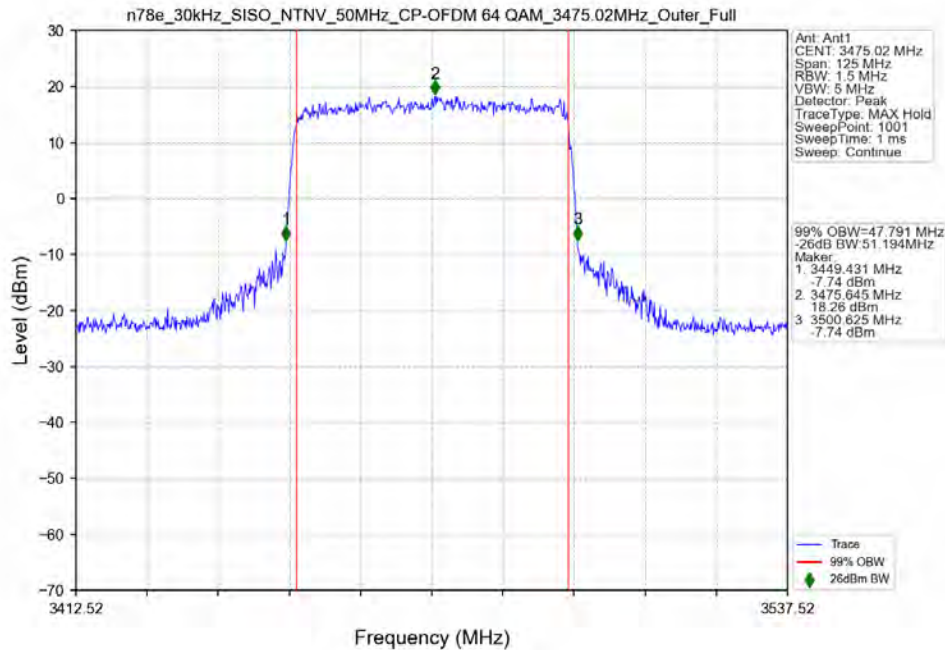


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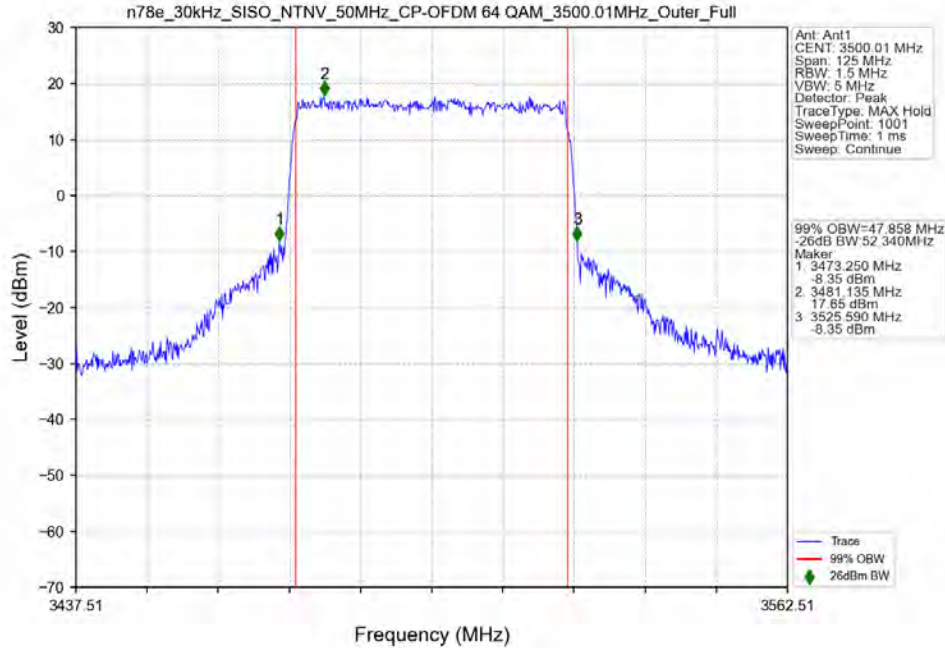
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n78e_30kHz_SISO_NTNV_50MHz_CP-OFDM 64 QAM_3500.01MHz_Outer_Full



n78e_30kHz_SISO_NTNV_50MHz_CP-OFDM 64 QAM_3525MHz_Outer_Full



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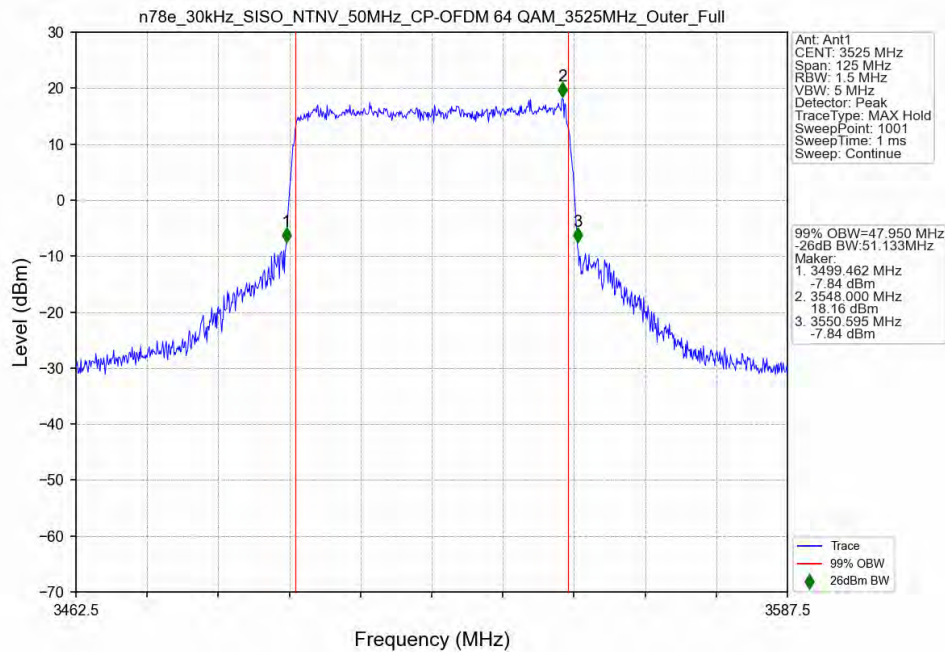


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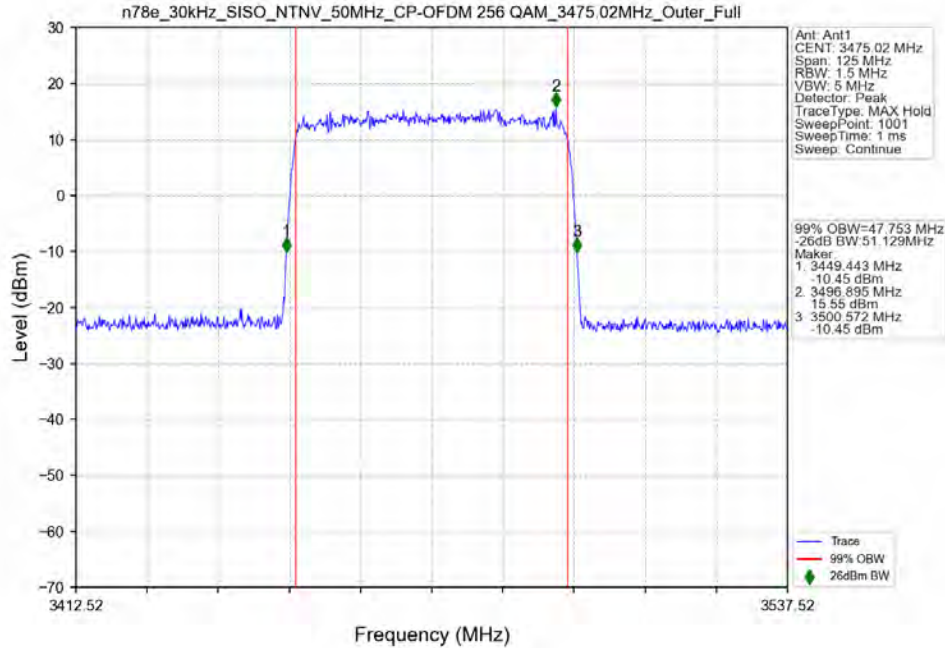
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n78e_30kHz_SISO_NTNV_50MHz_CP-OFDM_256_QAM_3475.02MHz_Outer_Full



n78e_30kHz_SISO_NTNV_50MHz_CP-OFDM_256_QAM_3500.01MHz_Outer_Full



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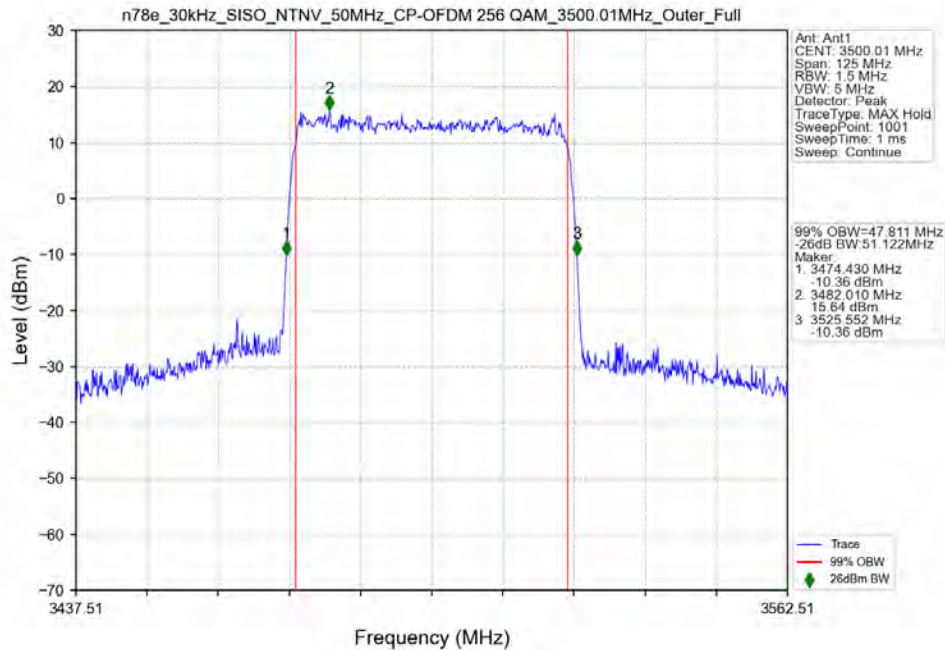


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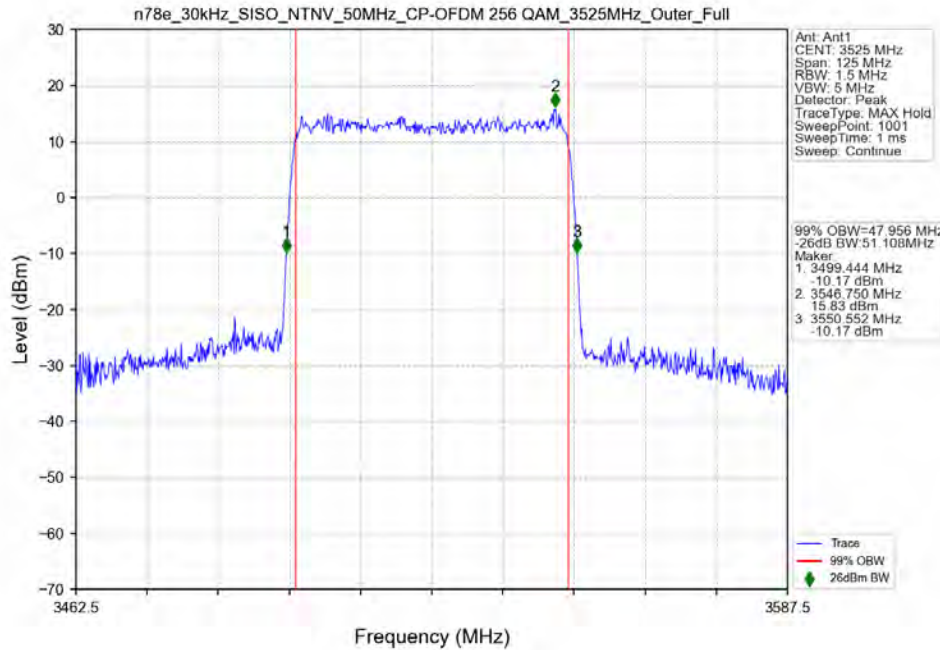
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n78e_30kHz_SISO_NTNV_50MHz_CP-OFDM_256_QAM_3525MHz_Outer_Full



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3.5 30k_SISO_60MHz_NTNV

3.5.1 Test Result

5G NR n78e SCS=30kHz SISO 60MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3480	Outer Full	58.16	62.30	/	Pass
	3500.01	Outer Full	58.33	62.18	/	Pass
	3519.99	Outer Full	58.44	62.27	/	Pass
DFT-s-OFDM QPSK	3480	Outer Full	58.40	62.56	/	Pass
	3500.01	Outer Full	58.57	62.42	/	Pass
	3519.99	Outer Full	58.62	62.41	/	Pass
DFT-s-OFDM 16 QAM	3480	Outer Full	58.07	62.27	/	Pass
	3500.01	Outer Full	58.26	62.33	/	Pass
	3519.99	Outer Full	58.31	62.42	/	Pass
DFT-s-OFDM 64 QAM	3480	Outer Full	57.97	62.14	/	Pass
	3500.01	Outer Full	58.24	62.04	/	Pass
	3519.99	Outer Full	58.30	62.40	/	Pass
DFT-s-OFDM 256 QAM	3480	Outer Full	58.02	62.07	/	Pass
	3500.01	Outer Full	58.26	62.04	/	Pass
	3519.99	Outer Full	58.30	62.22	/	Pass
CP-OFDM QPSK	3480	Outer Full	58.16	62.03	/	Pass
	3500.01	Outer Full	58.23	62.13	/	Pass
	3519.99	Outer Full	58.23	62.32	/	Pass
CP-OFDM 16 QAM	3480	Outer Full	58.03	62.05	/	Pass
	3500.01	Outer Full	58.05	62.18	/	Pass
	3519.99	Outer Full	58.19	62.28	/	Pass
CP-OFDM 64 QAM	3480	Outer Full	58.28	62.20	/	Pass
	3500.01	Outer Full	58.33	62.34	/	Pass
	3519.99	Outer Full	58.50	62.19	/	Pass
CP-OFDM 256 QAM	3480	Outer Full	58.07	62.09	/	Pass
	3500.01	Outer Full	58.26	62.08	/	Pass
	3519.99	Outer Full	58.39	62.22	/	Pass



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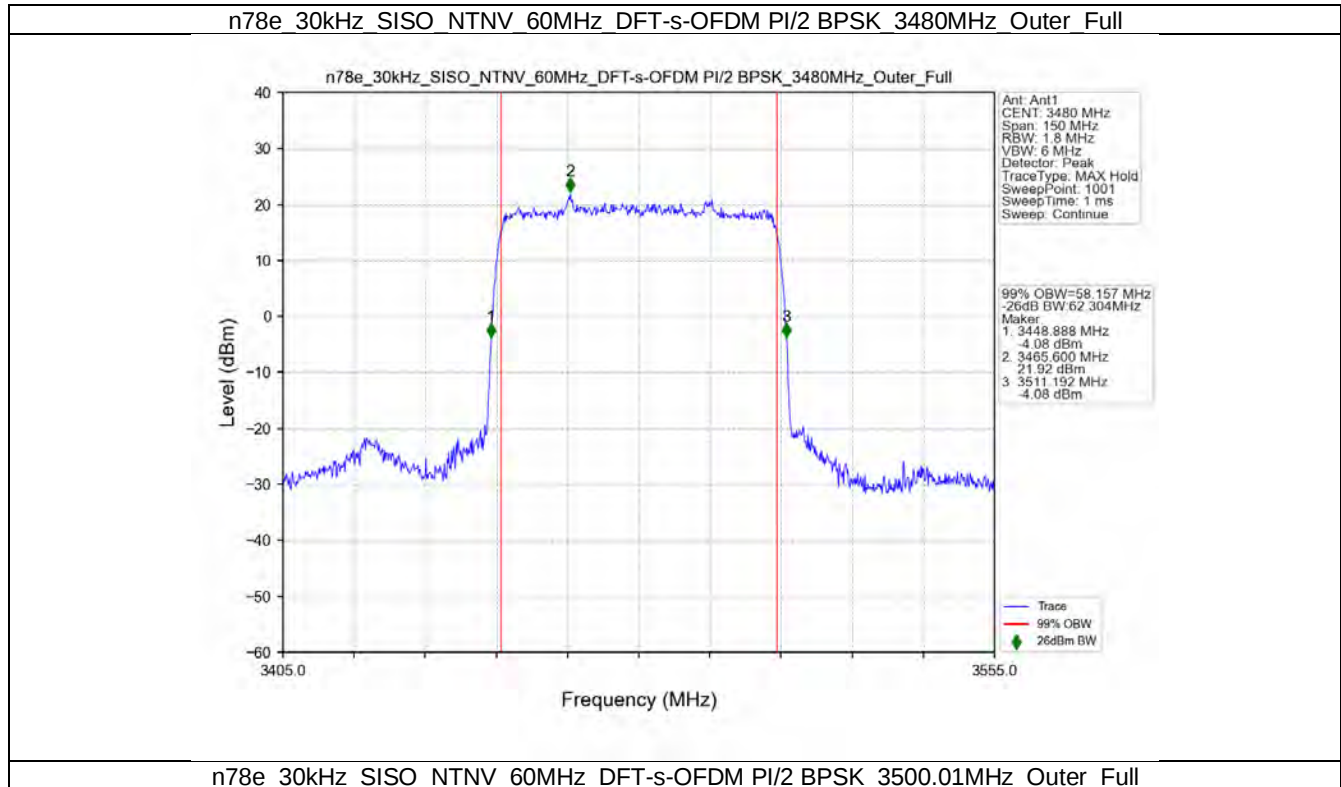
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3.5.2 Test Graph



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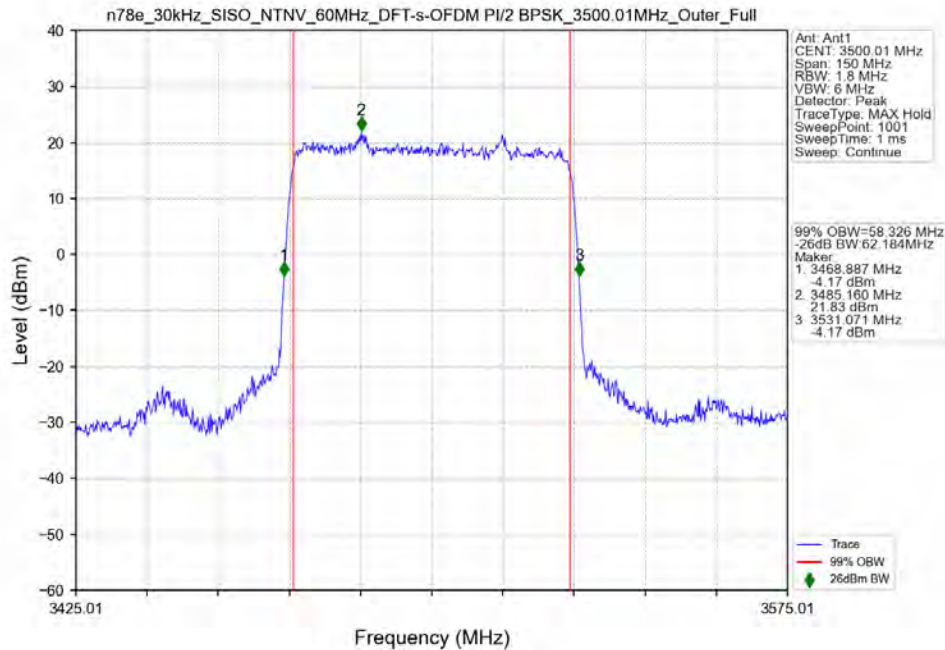


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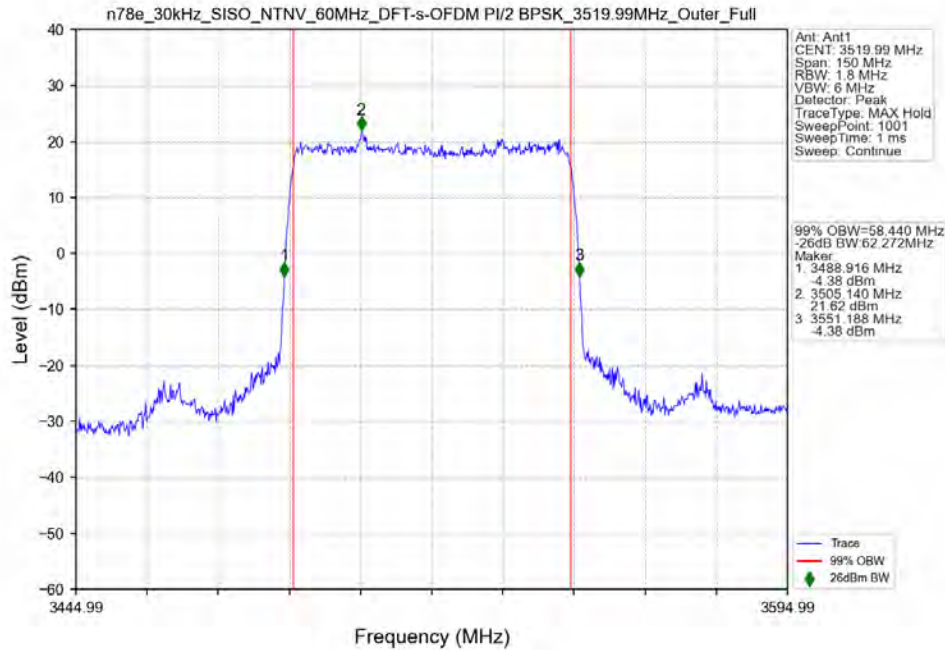
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n78e_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM PI/2 BPSK_3519.99MHz_Outer_Full



n78e_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM QPSK_3480MHz_Outer_Full



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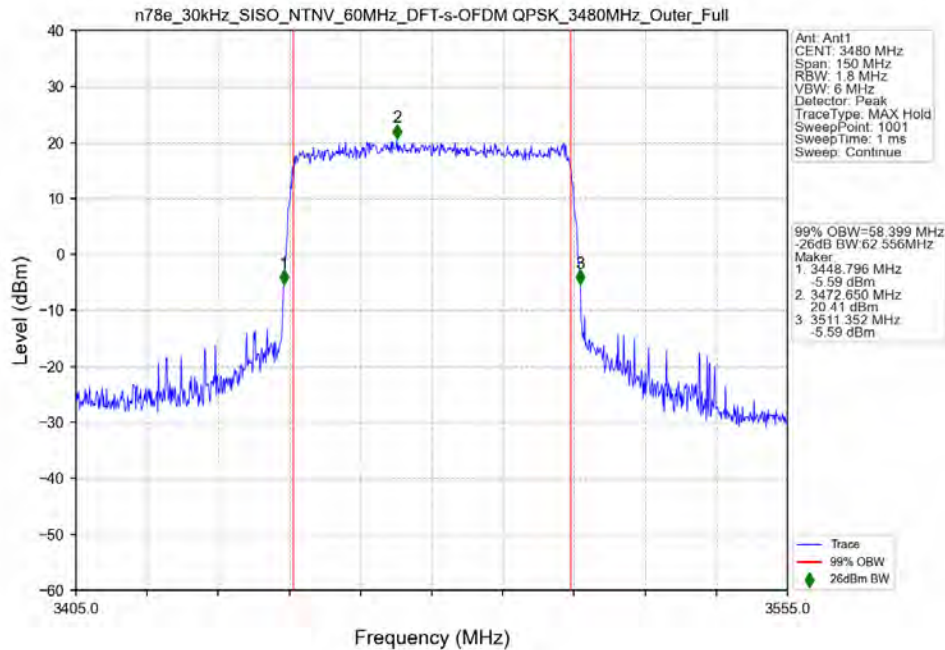


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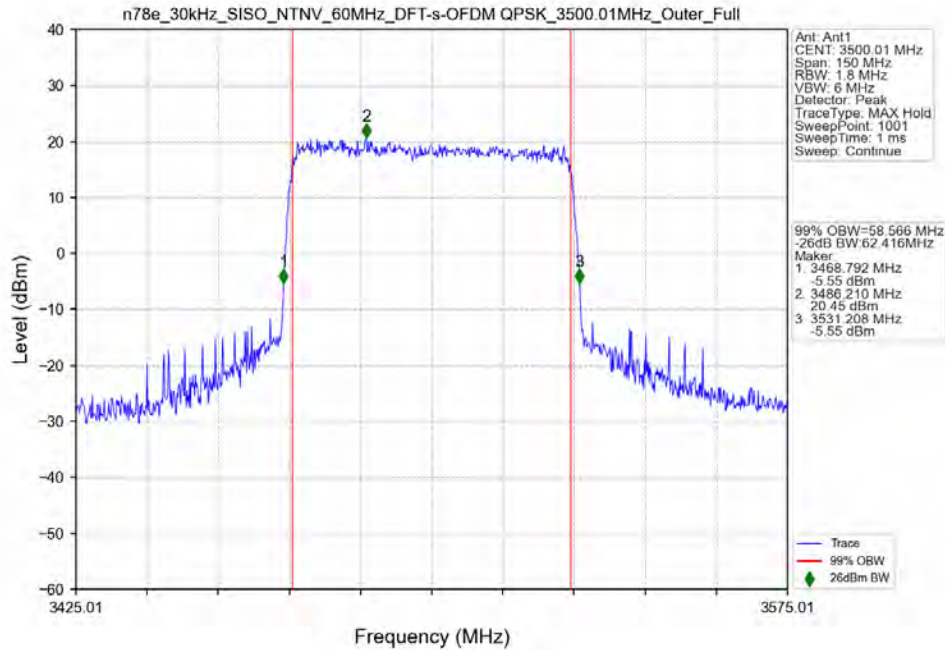
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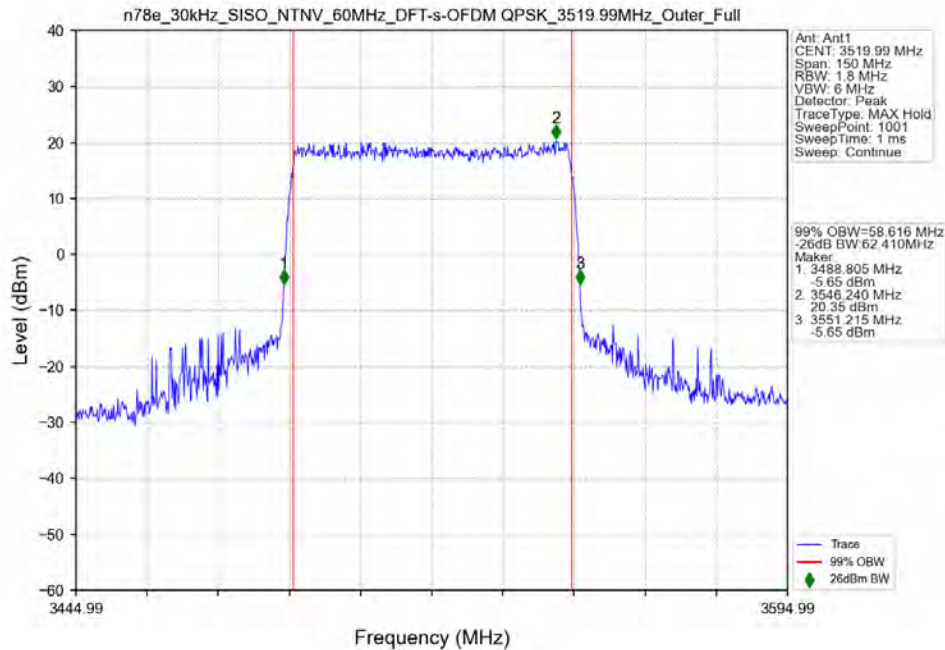


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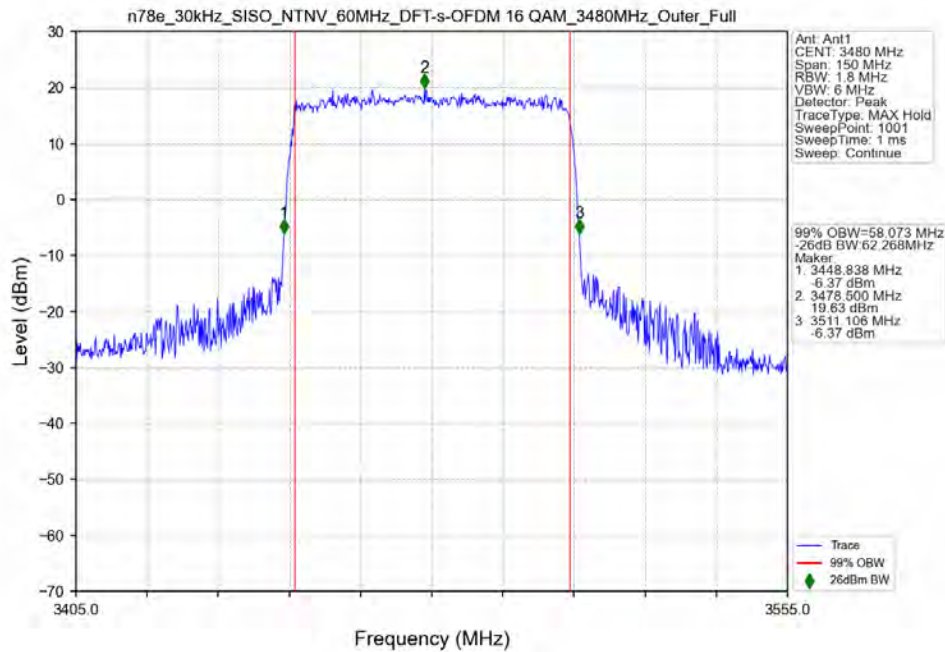
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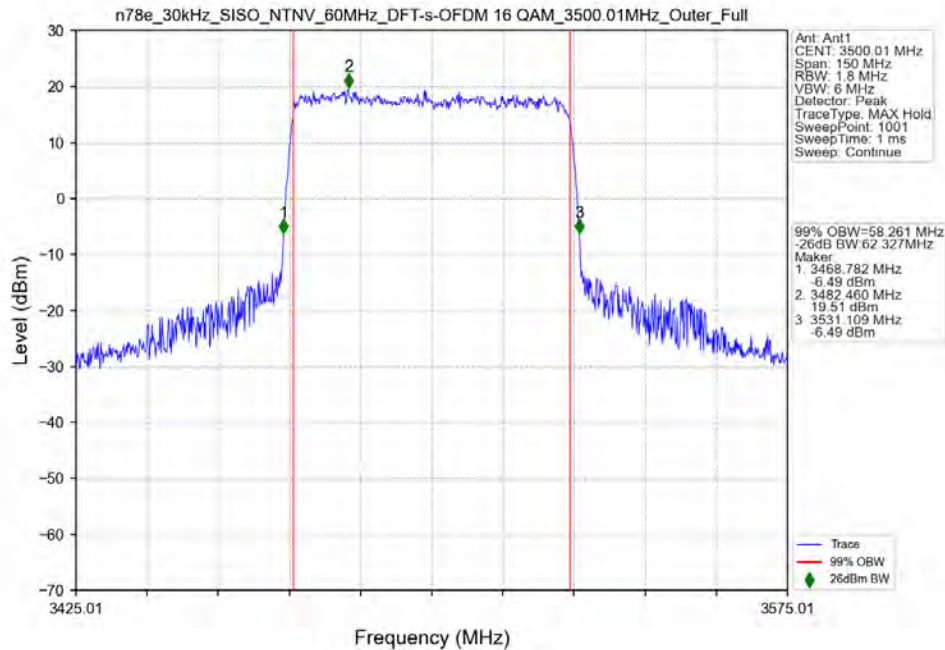


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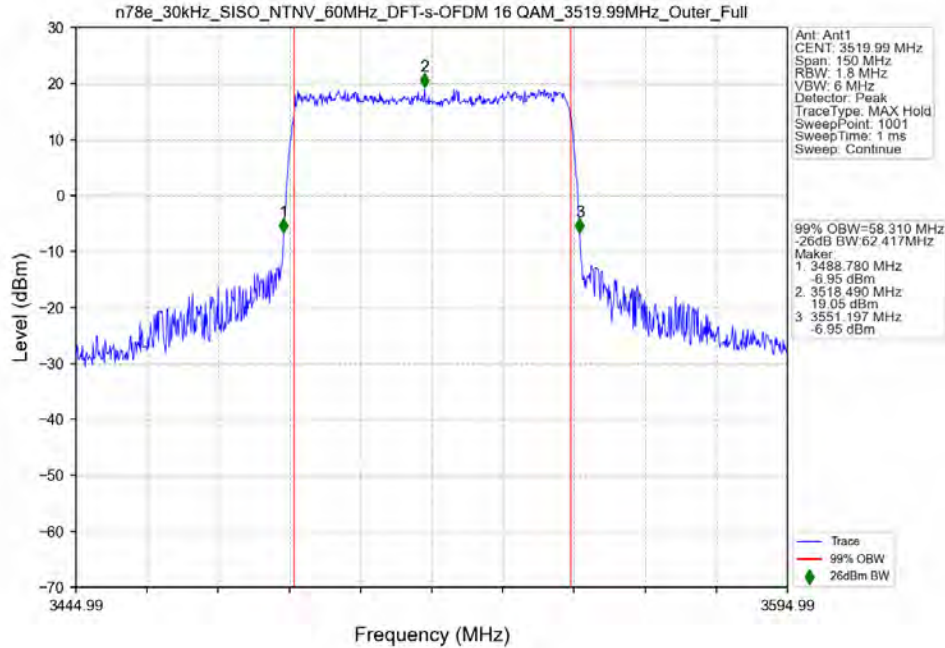
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n78e_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM 64 QAM_3480MHz_Outer_Full



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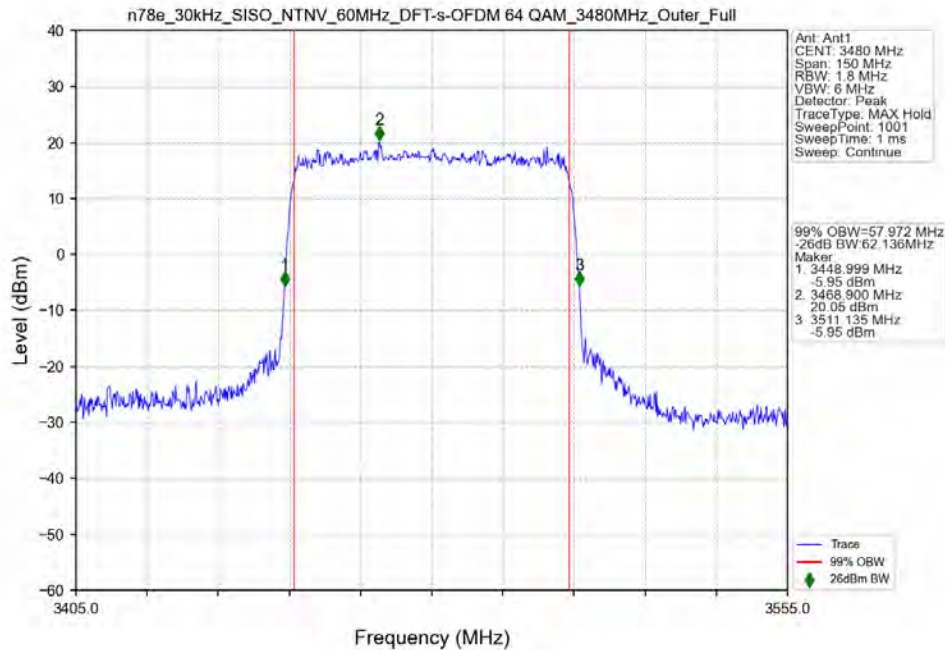


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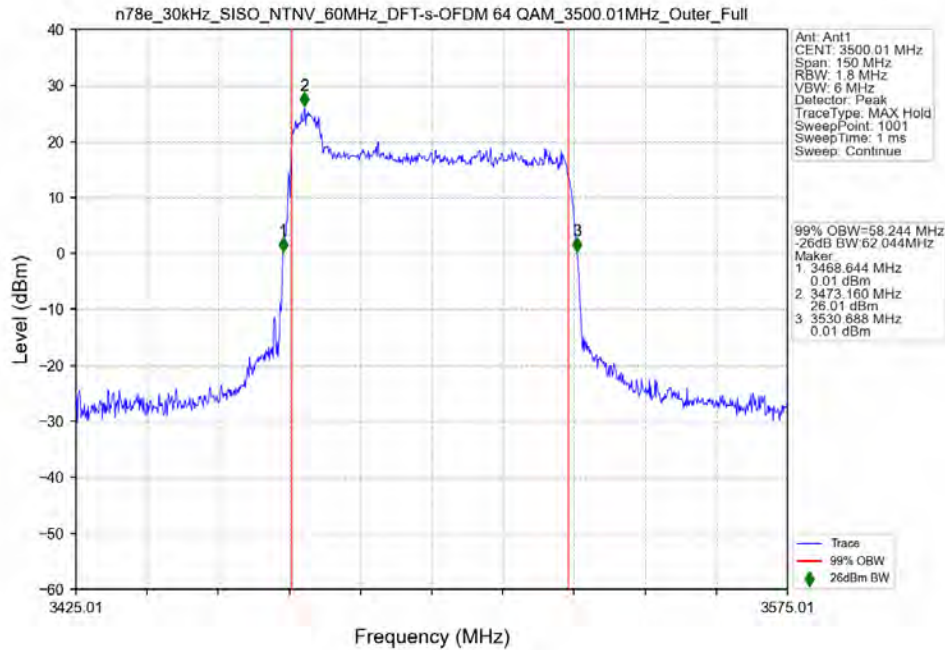
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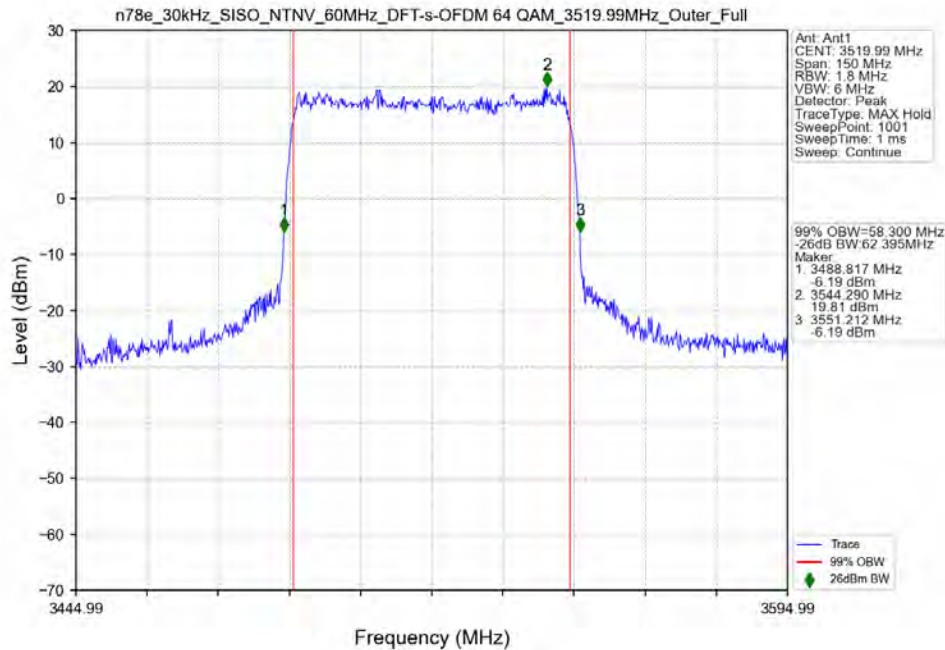


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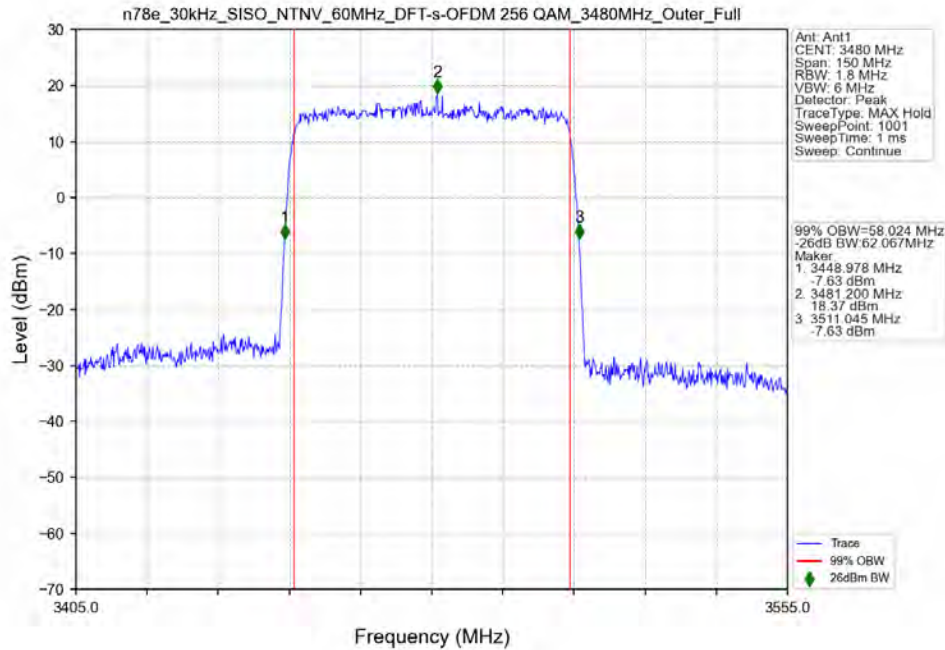
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n78e_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM_256_QAM_3500.01MHz_Outer_Full



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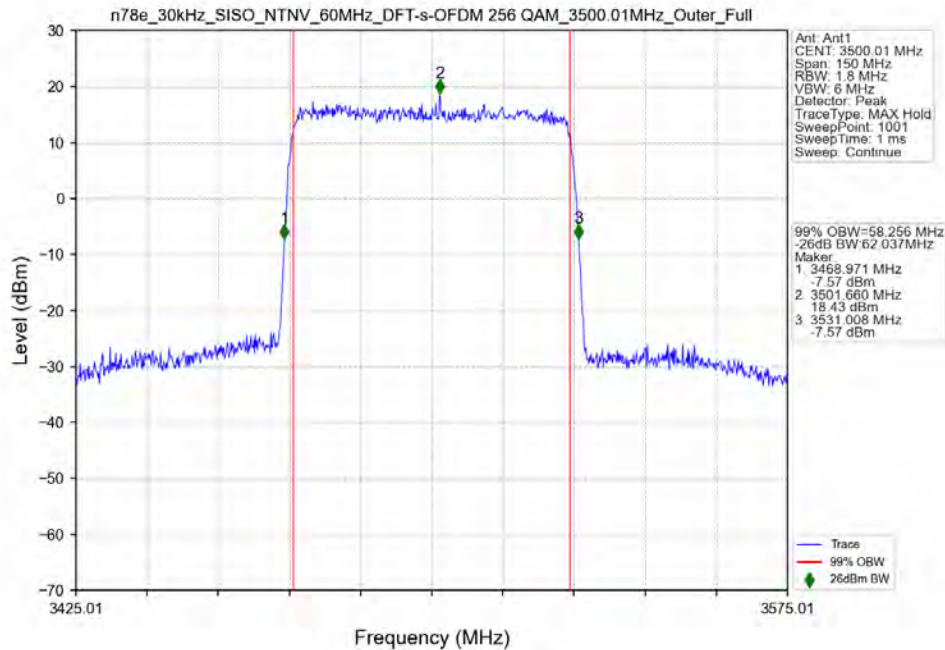


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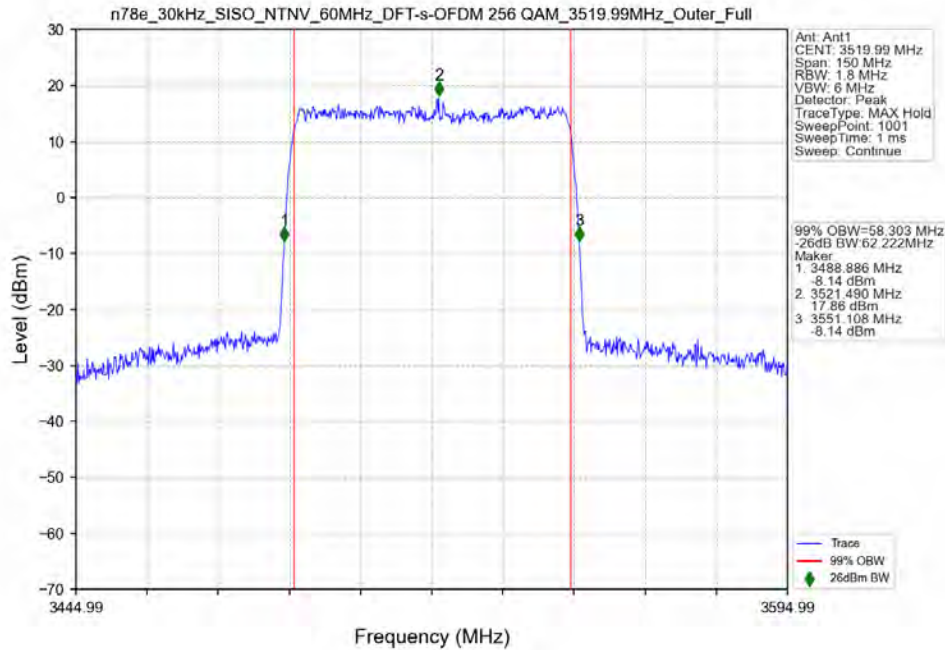
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n78e_30kHz_SISO_NTNV_60MHz_CP-OFDM_QPSK_3480MHz_Outer_Full



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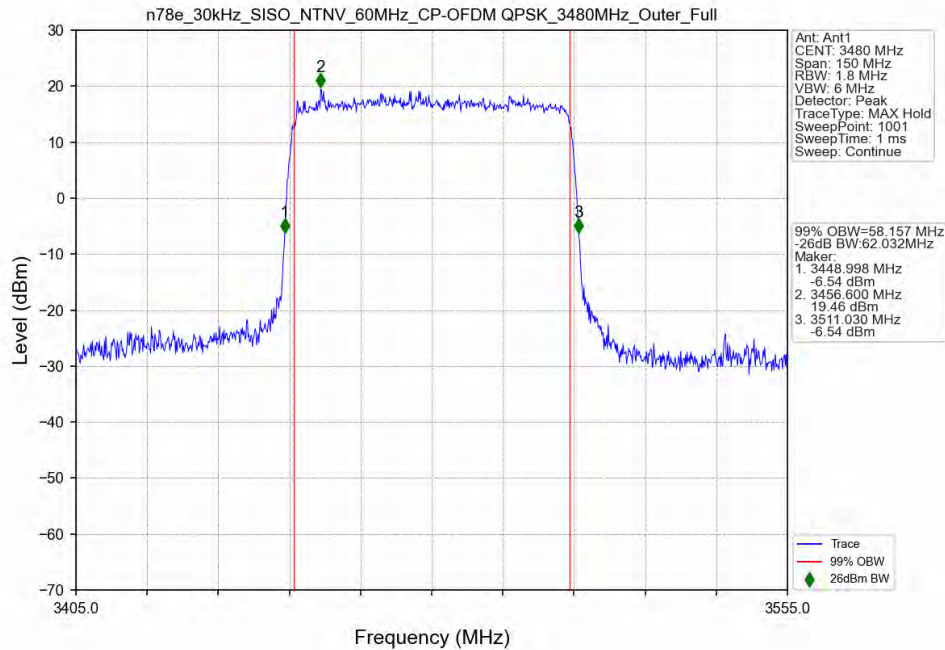


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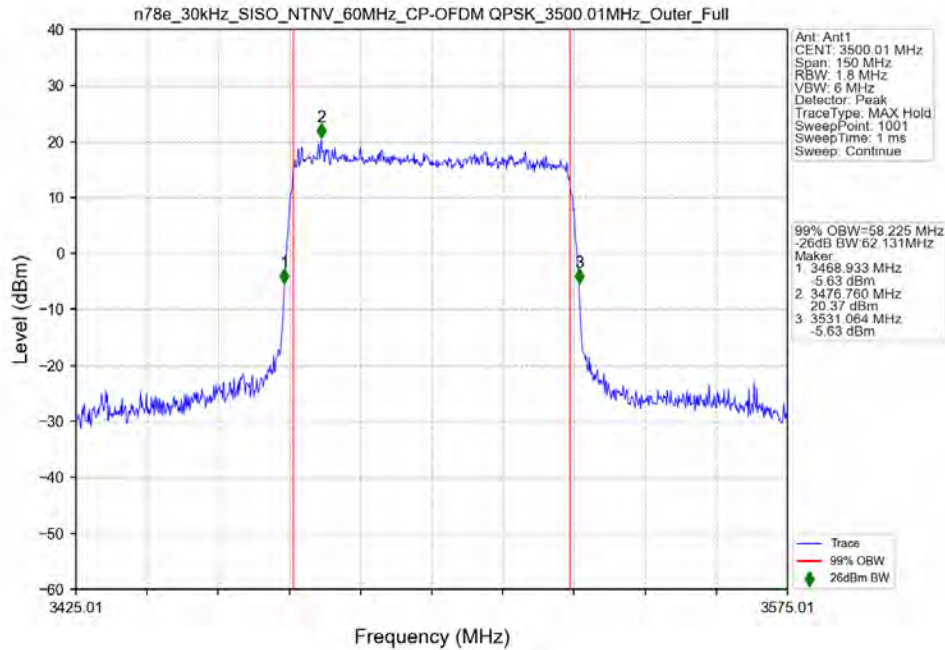
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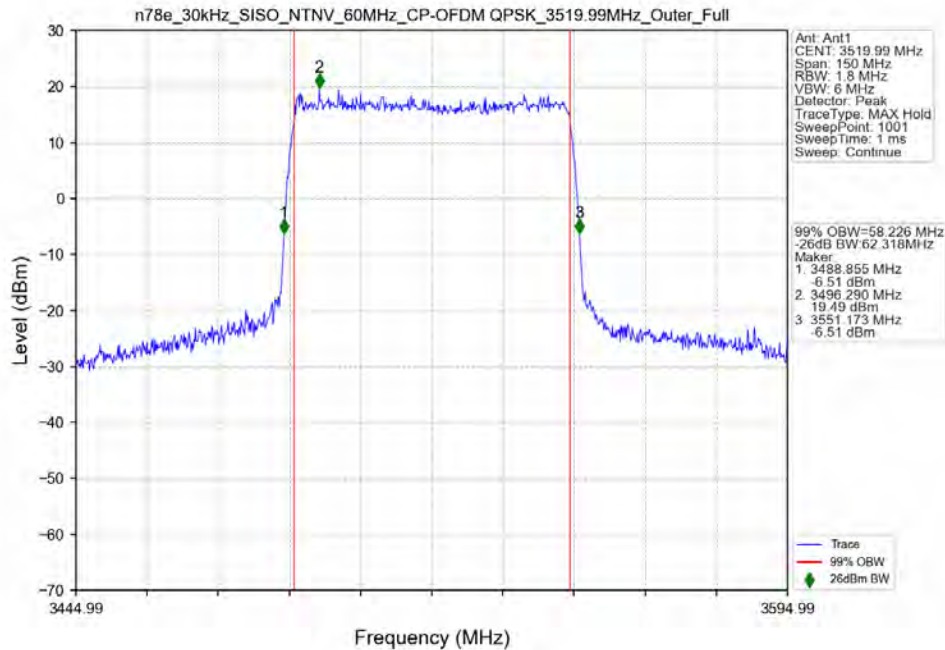


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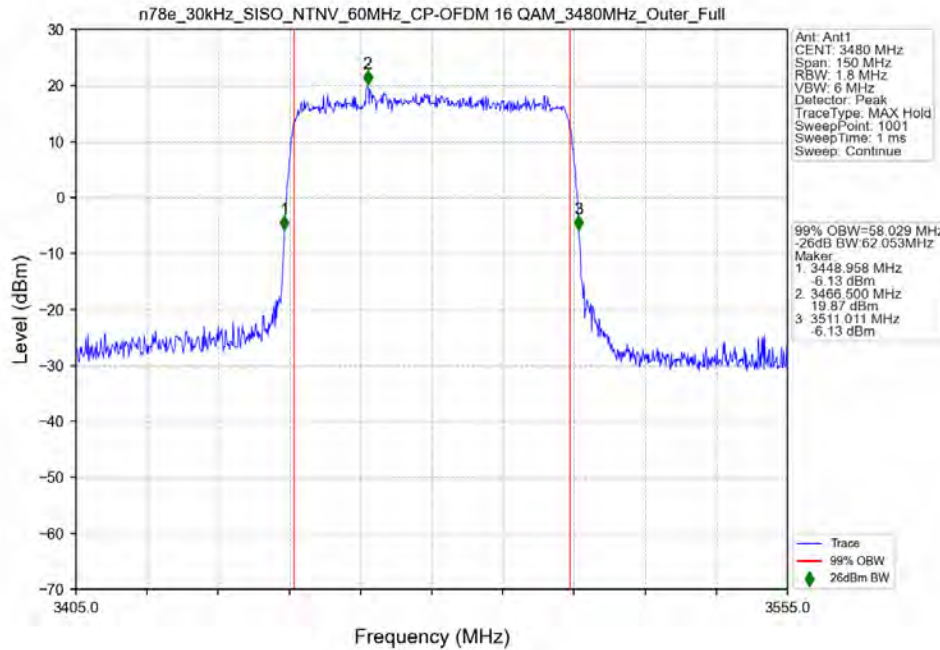
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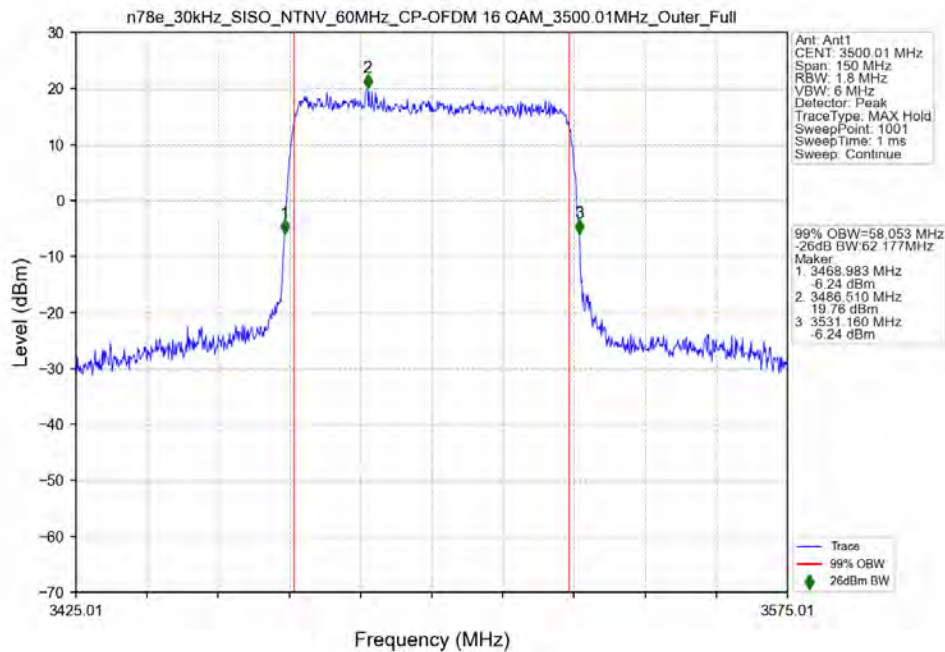


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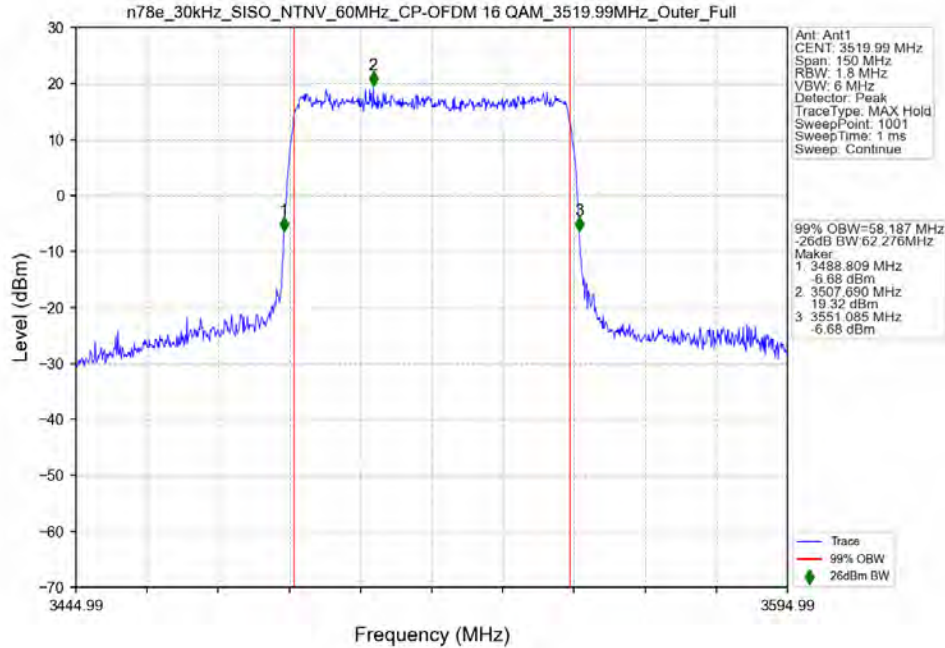
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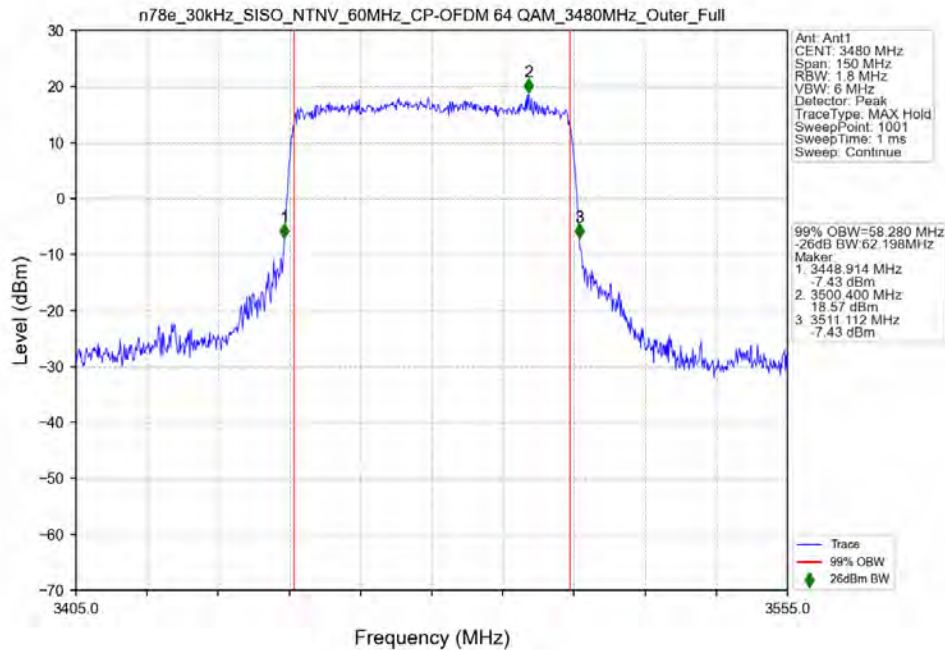


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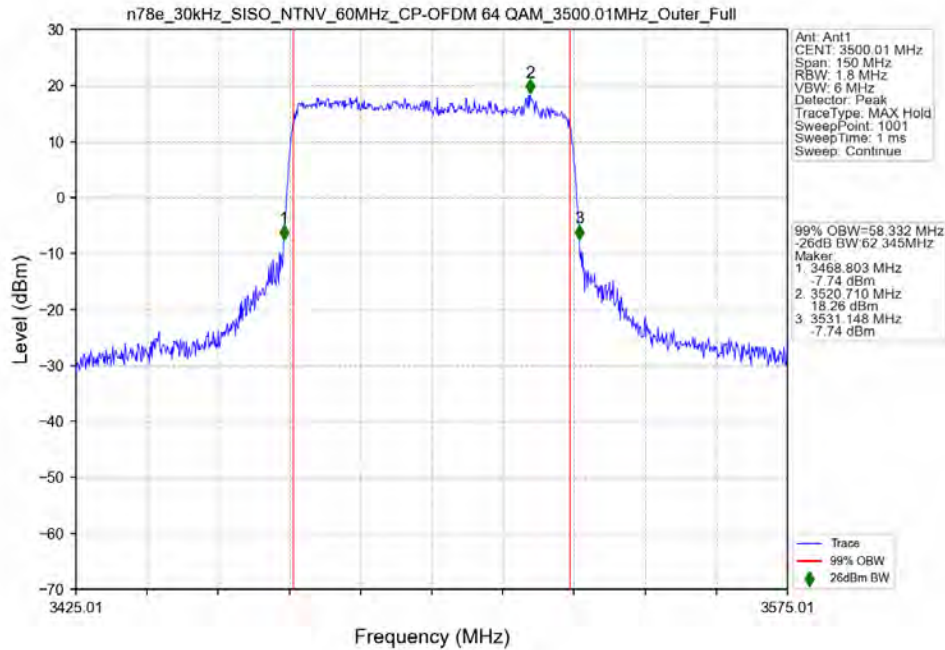
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n78e_30kHz_SISO_NTNV_60MHz_CP-OFDM 64 QAM_3500.01MHz_Outer_Full



n78e_30kHz_SISO_NTNV_60MHz_CP-OFDM 64 QAM_3519.99MHz_Outer_Full



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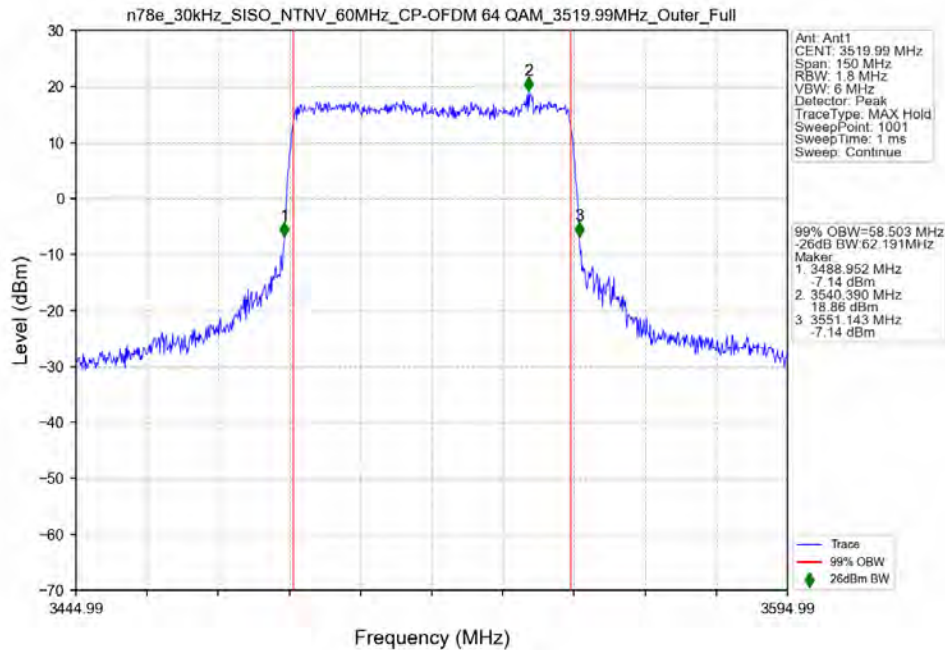


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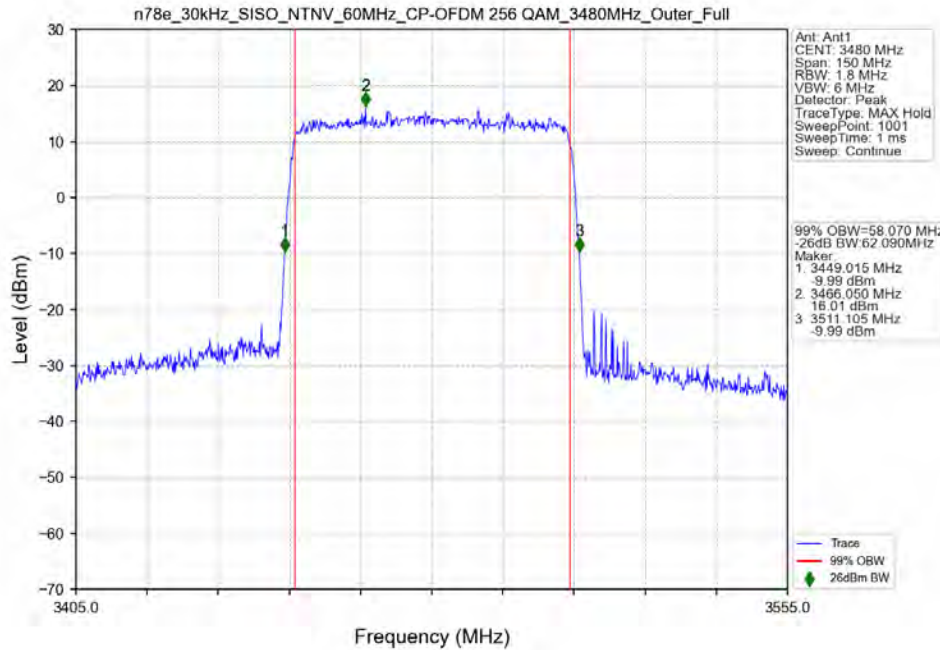
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n78e_30kHz_SISO_NTNV_60MHz_CP-OFDM_256_QAM_3480MHz_Outer_Full



n78e_30kHz_SISO_NTNV_60MHz_CP-OFDM_256_QAM_3500.01MHz_Outer_Full



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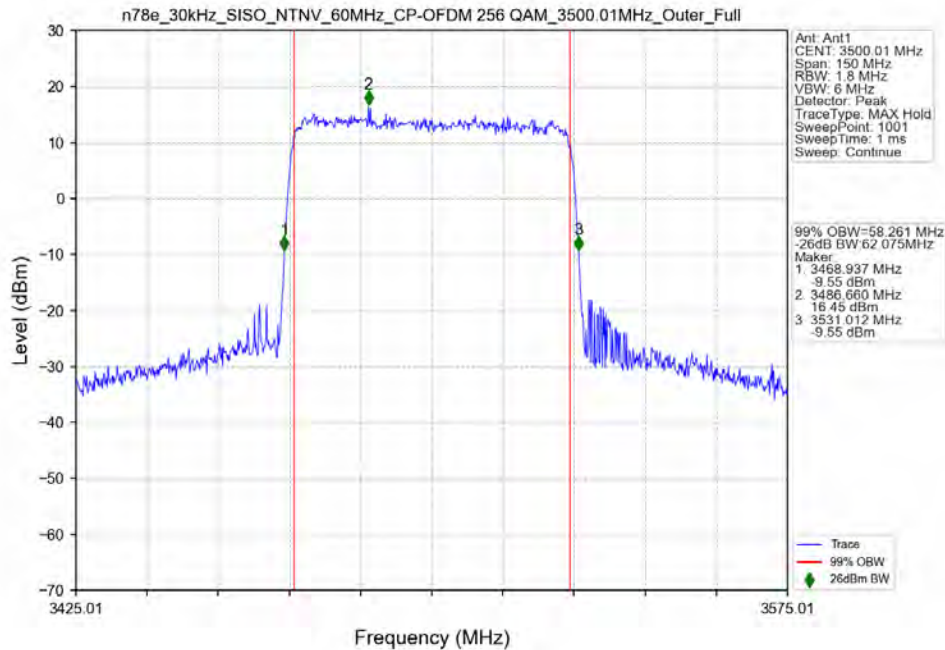


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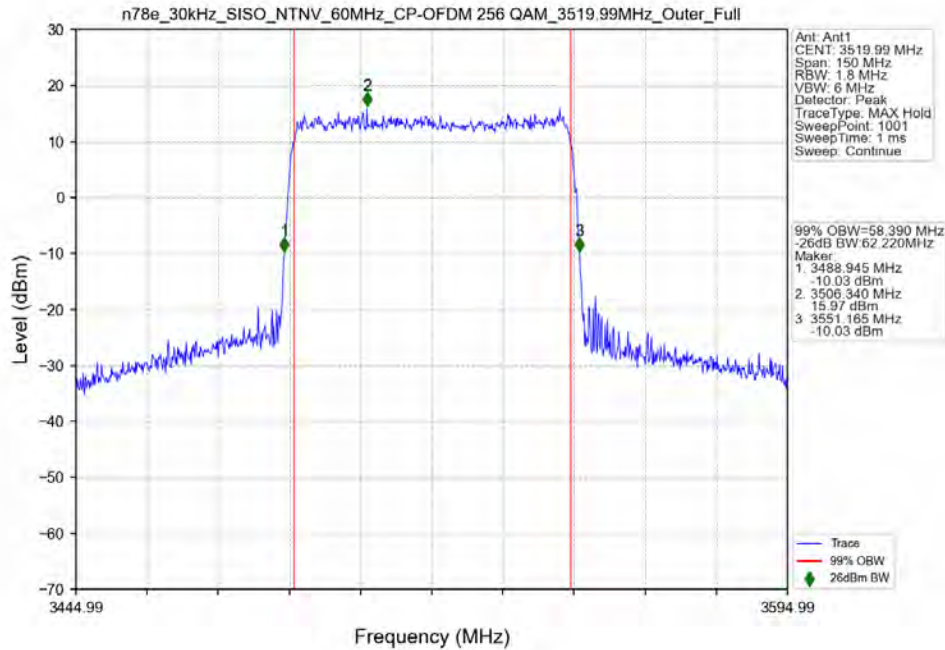
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3.6 30k_SISO_70MHz_NTNV

3.6.1 Test Result

5G NR n78e 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	3485.01	Outer Full	64.81	69.47	/	Pass
	3500.01	Outer Full	64.94	69.39	/	Pass
	3514.98	Outer Full	64.80	69.12	/	Pass
DFT-s-OFDM QPSK	3485.01	Outer Full	64.76	69.56	/	Pass
	3500.01	Outer Full	64.82	69.61	/	Pass
	3514.98	Outer Full	64.95	69.53	/	Pass
DFT-s-OFDM 16 QAM	3485.01	Outer Full	64.79	69.31	/	Pass
	3500.01	Outer Full	64.84	69.59	/	Pass
	3514.98	Outer Full	65.03	69.26	/	Pass
DFT-s-OFDM 64 QAM	3485.01	Outer Full	64.89	69.60	/	Pass
	3500.01	Outer Full	65.00	69.46	/	Pass
	3514.98	Outer Full	65.13	69.59	/	Pass
DFT-s-OFDM 256 QAM	3485.01	Outer Full	64.66	69.38	/	Pass
	3500.01	Outer Full	64.72	69.50	/	Pass
	3514.98	Outer Full	64.93	67.98	/	Pass
CP-OFDM QPSK	3485.01	Outer Full	67.84	72.76	/	Pass
	3500.01	Outer Full	67.88	72.68	/	Pass
	3514.98	Outer Full	68.15	72.42	/	Pass
CP-OFDM 16 QAM	3485.01	Outer Full	67.87	72.68	/	Pass
	3500.01	Outer Full	67.97	73.20	/	Pass
	3514.98	Outer Full	67.96	72.50	/	Pass
CP-OFDM 64 QAM	3485.01	Outer Full	67.91	72.51	/	Pass
	3500.01	Outer Full	68.40	72.84	/	Pass
	3514.98	Outer Full	68.31	75.51	/	Pass
CP-OFDM 256 QAM	3485.01	Outer Full	68.51	72.21	/	Pass
	3500.01	Outer Full	68.02	72.66	/	Pass
	3514.98	Outer Full	68.07	72.77	/	Pass



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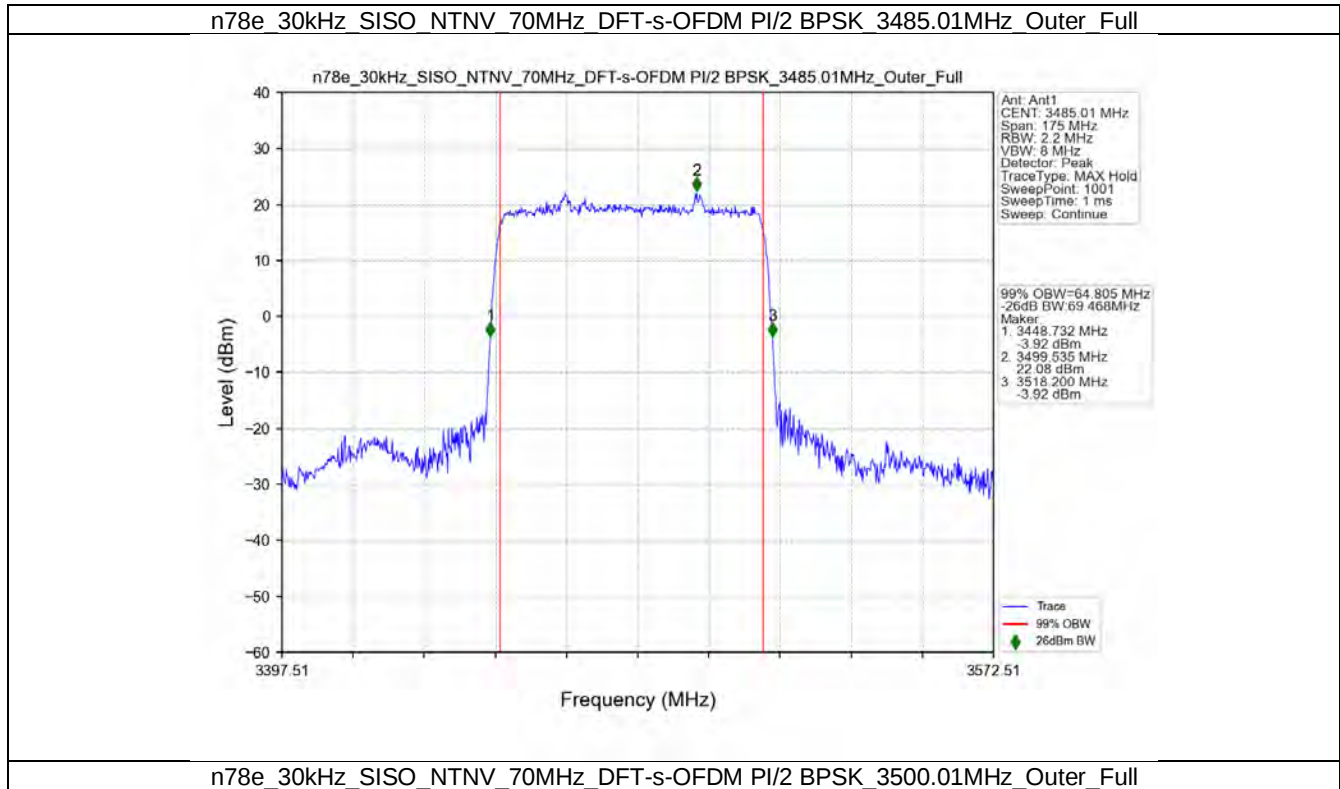
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3.6.2 Test Graph



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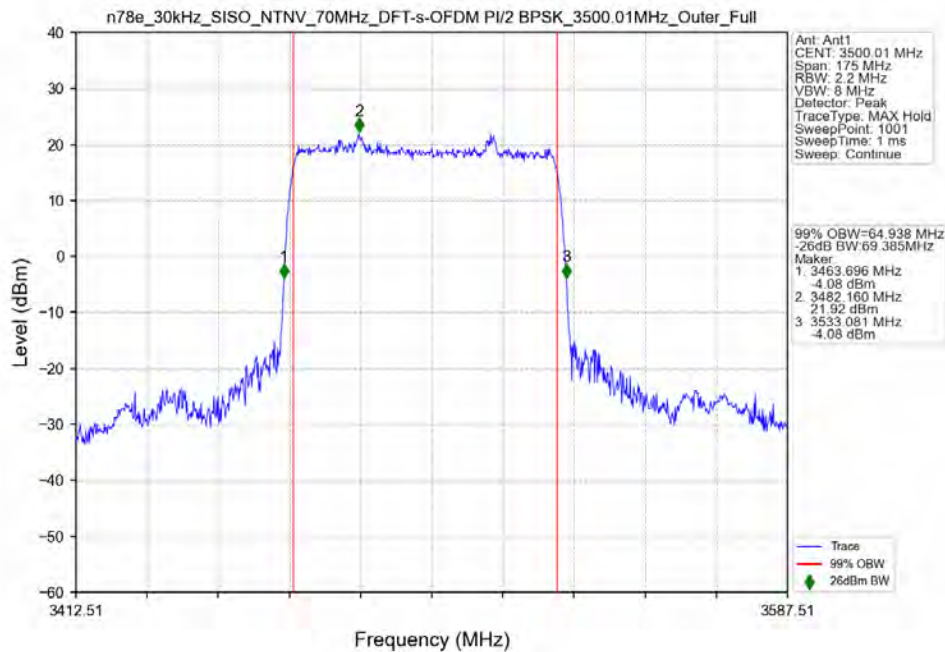


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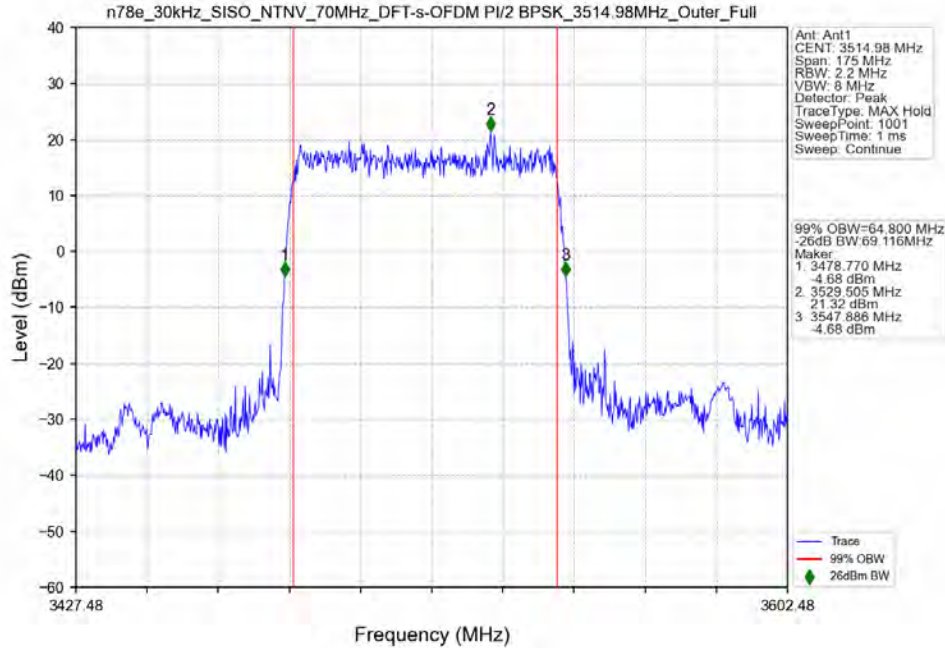
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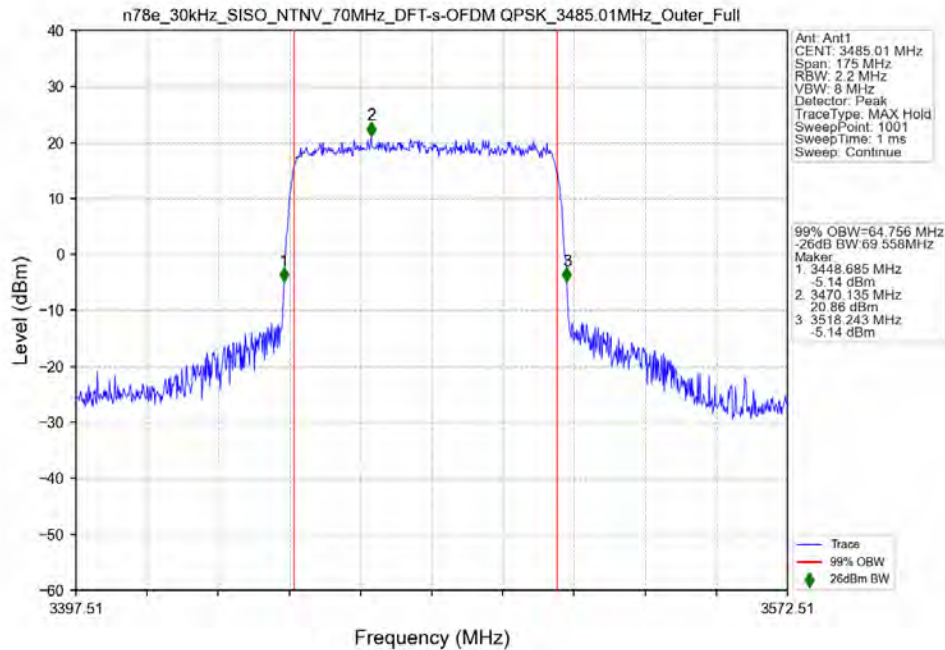


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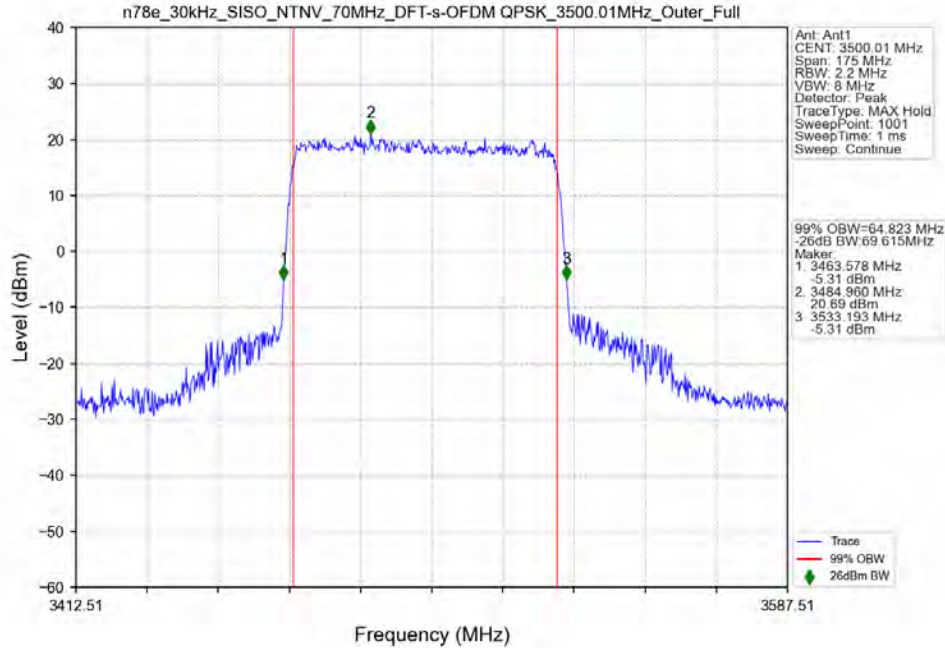
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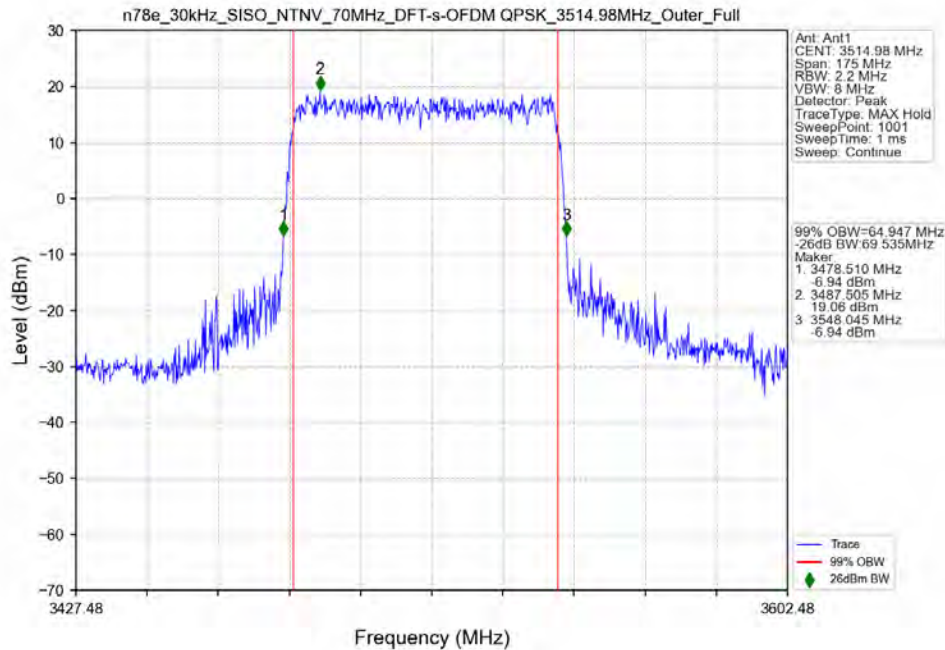


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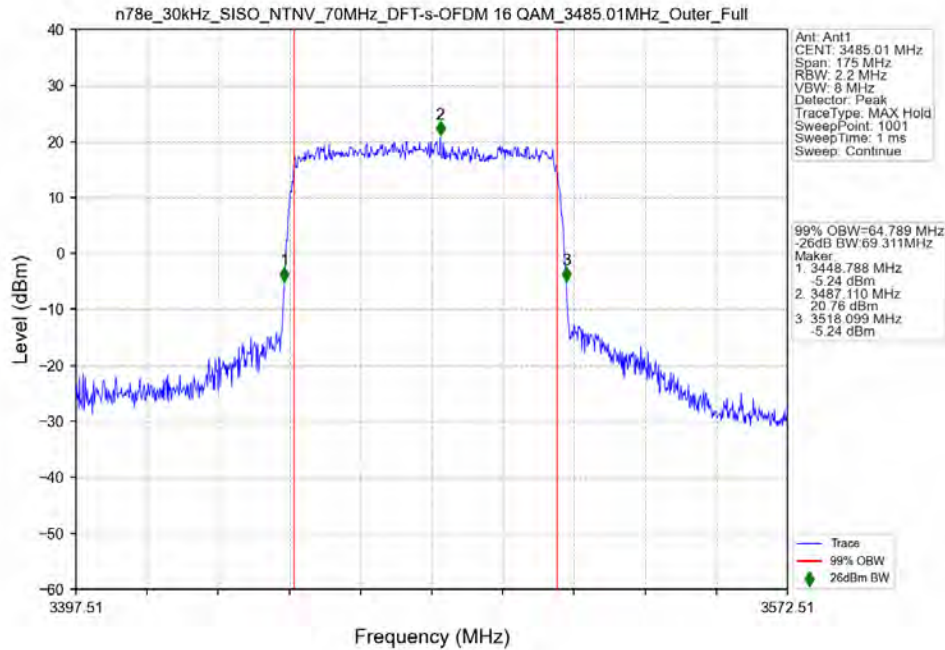
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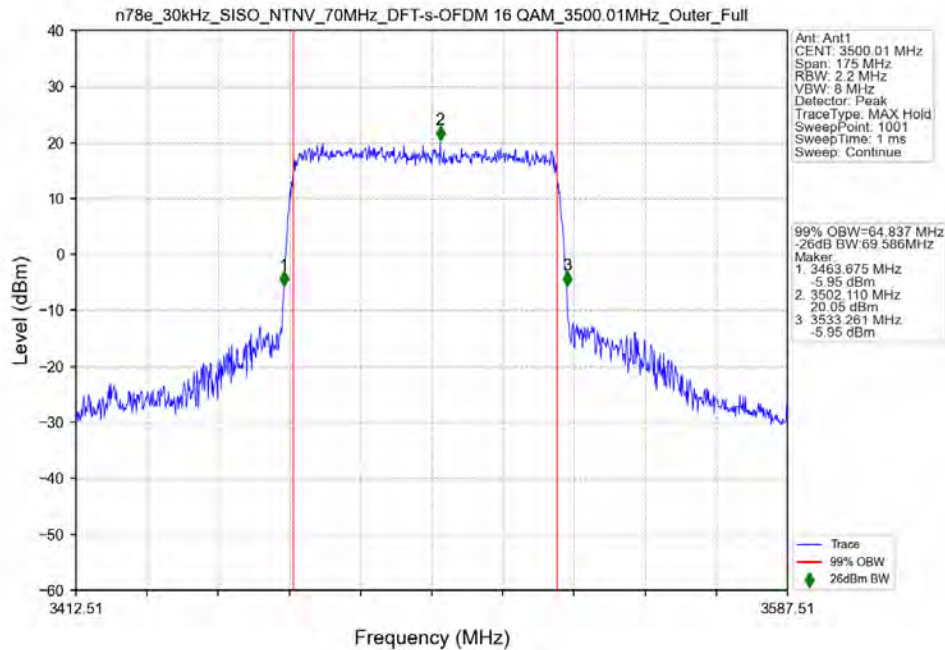


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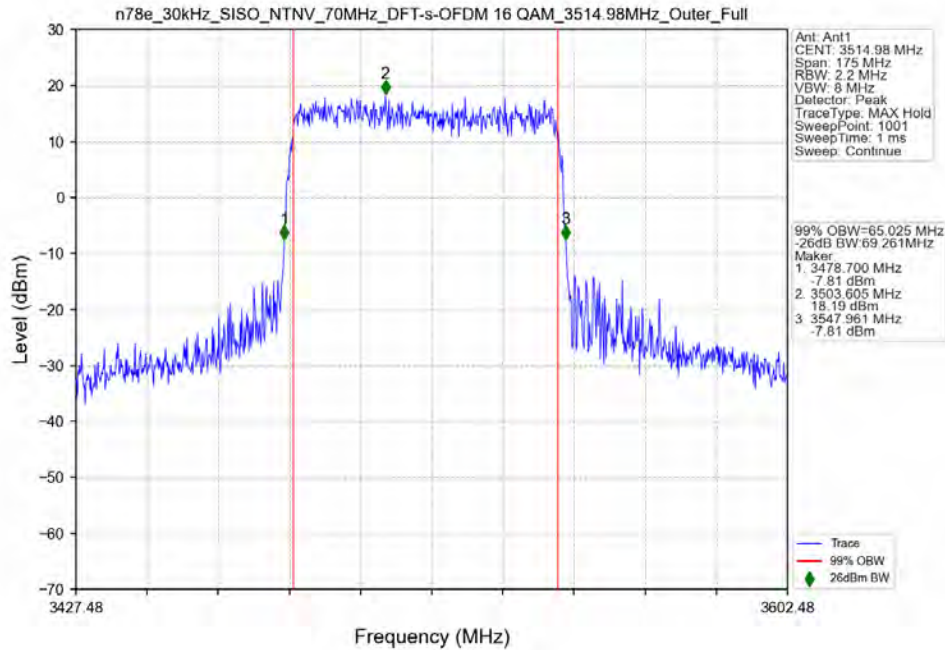
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n78e_30kHz_SISO_NTNV_70MHz_DFT-s-OFDM 64 QAM_3485.01MHz_Outer_Full



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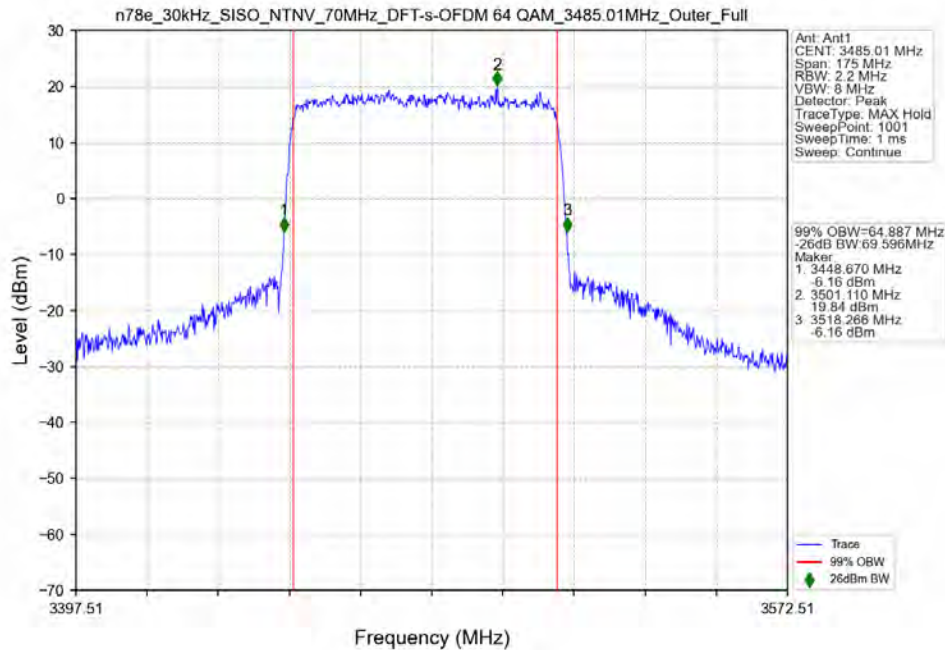


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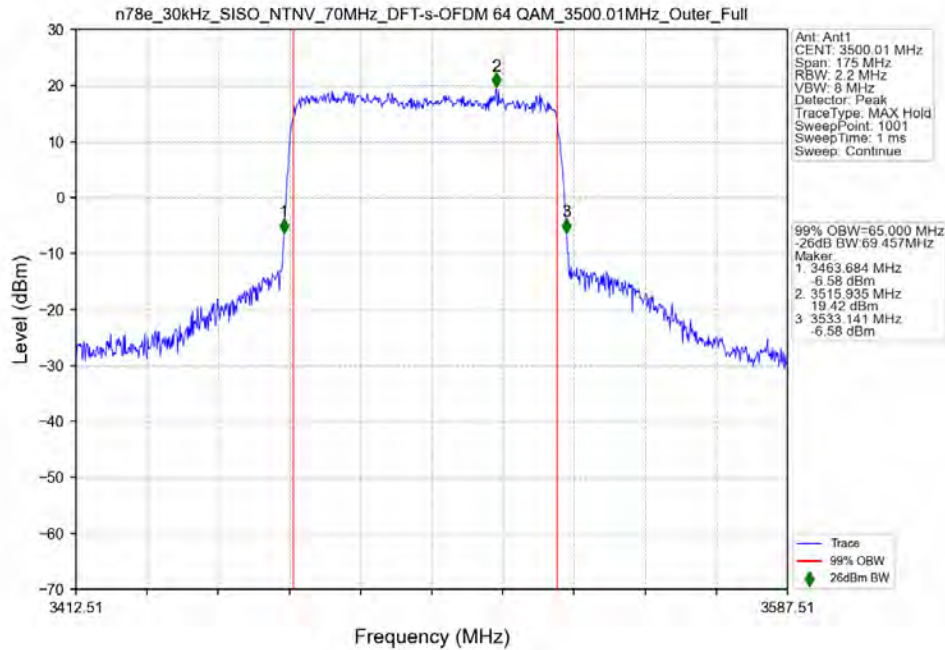
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n78e_30kHz_SISO_NTNV_70MHz_DFT-s-OFDM_64_QAM_3514.98MHz_Outer_Full



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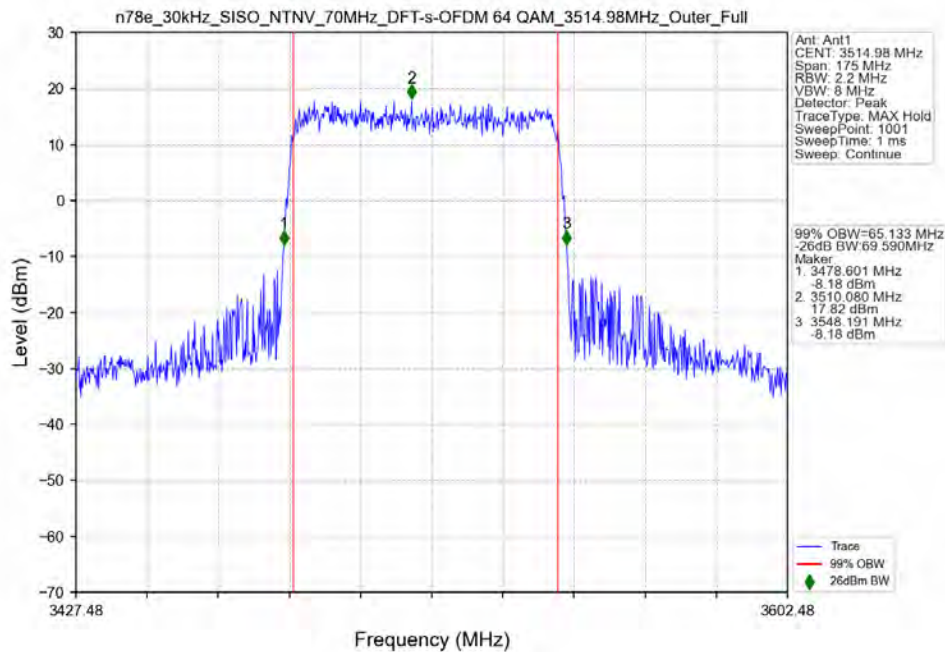


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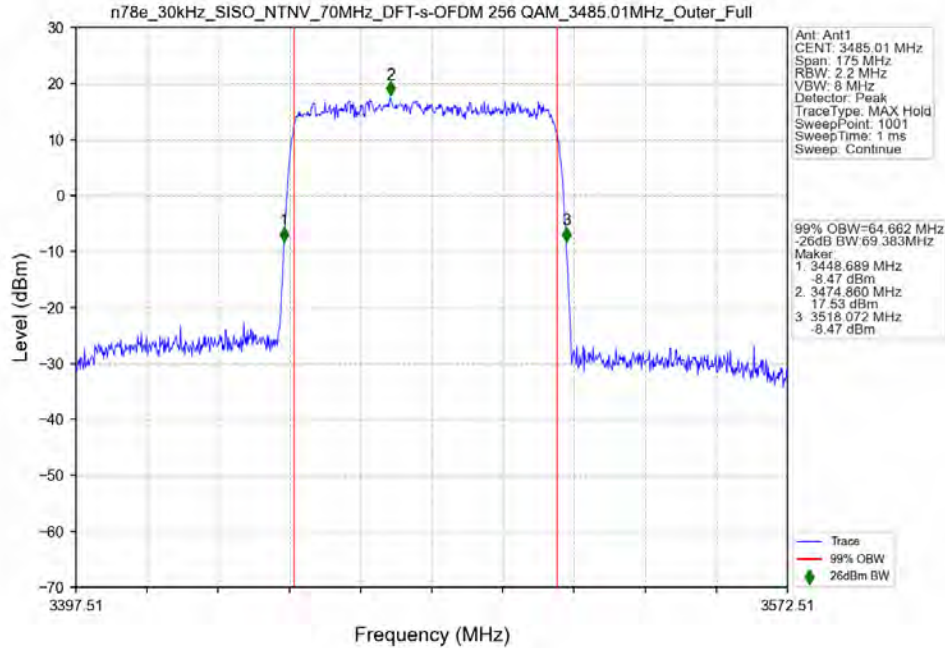
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n78e_30kHz_SISO_NTNV_70MHz_DFT-s-OFDM_256_QAM_3500.01MHz_Outer_Full



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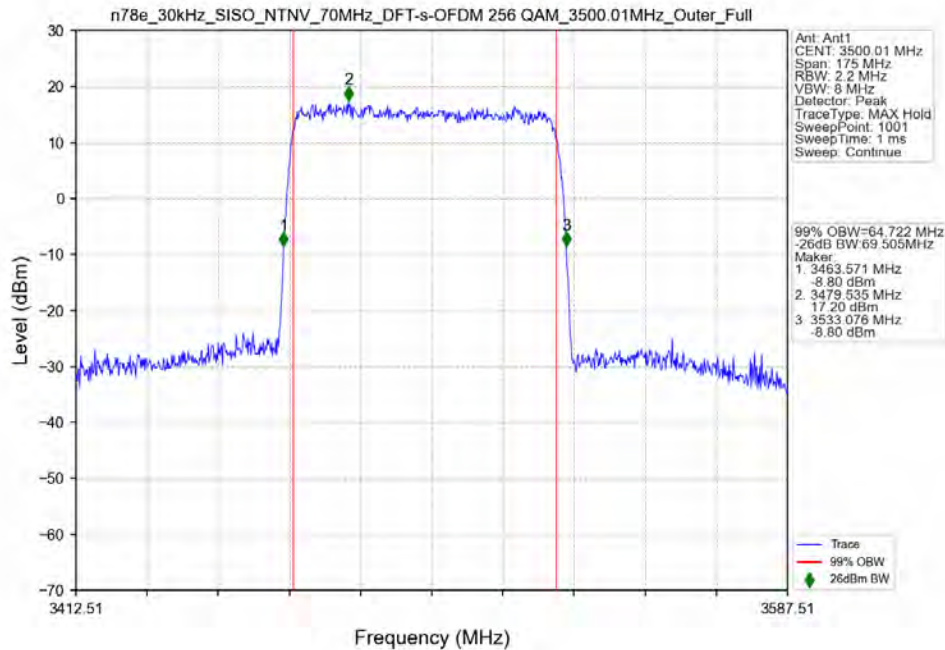


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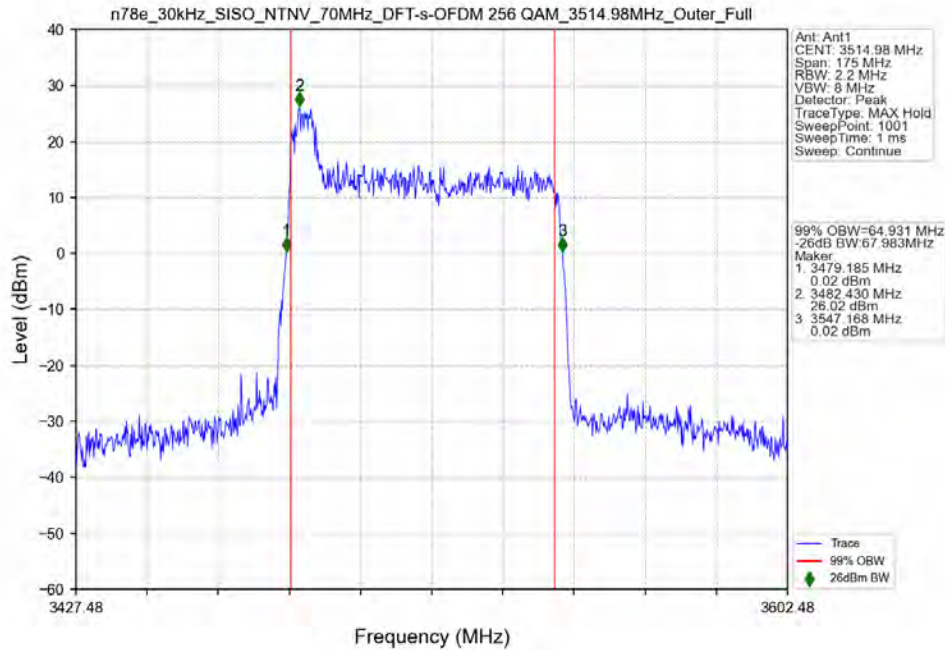
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n78e_30kHz_SISO_NTNV_70MHz_CP-OFDM_QPSK_3485.01MHz_Outer_Full



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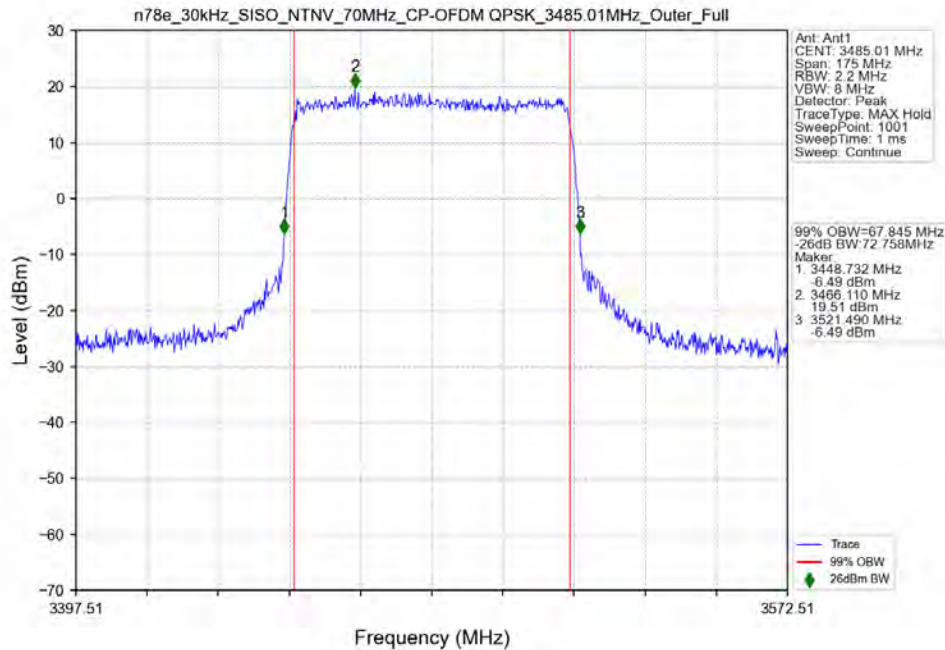


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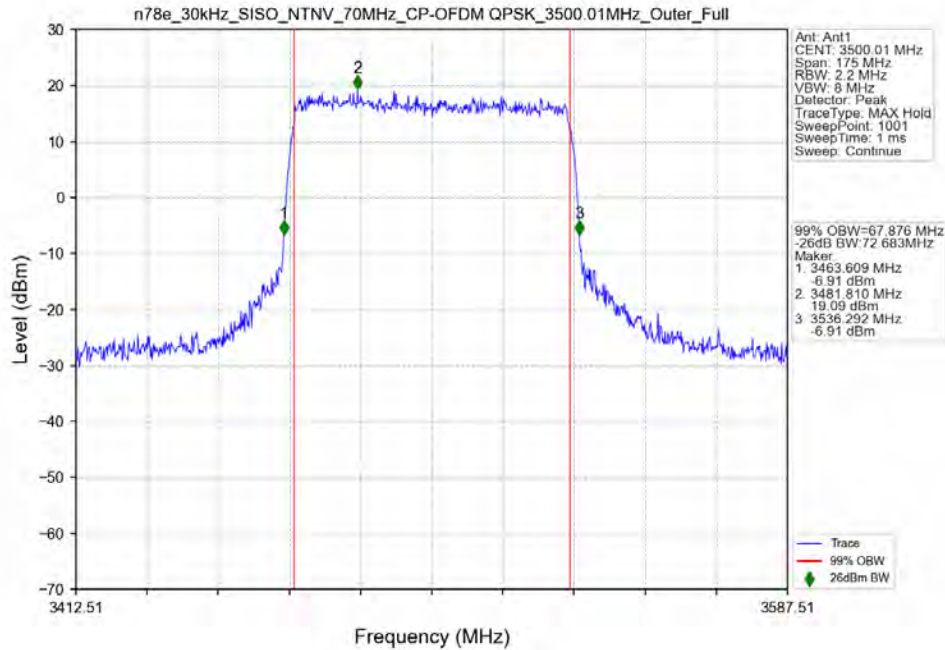
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n78e_30kHz_SISO_NTNV_70MHz_CP-OFDM QPSK_3500.01MHz_Outer_Full



n78e_30kHz_SISO_NTNV_70MHz_CP-OFDM QPSK_3514.98MHz_Outer_Full



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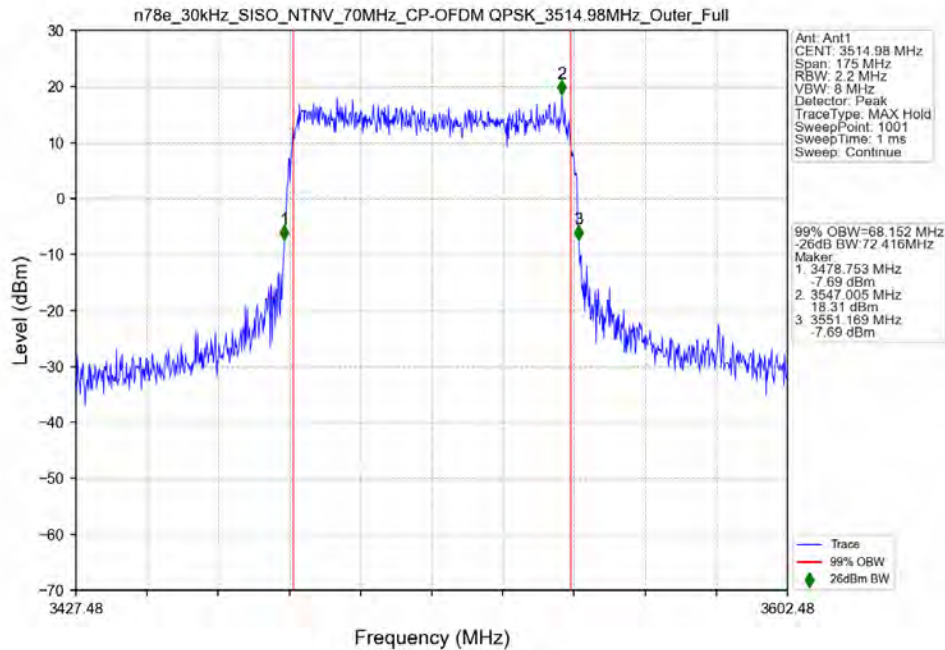


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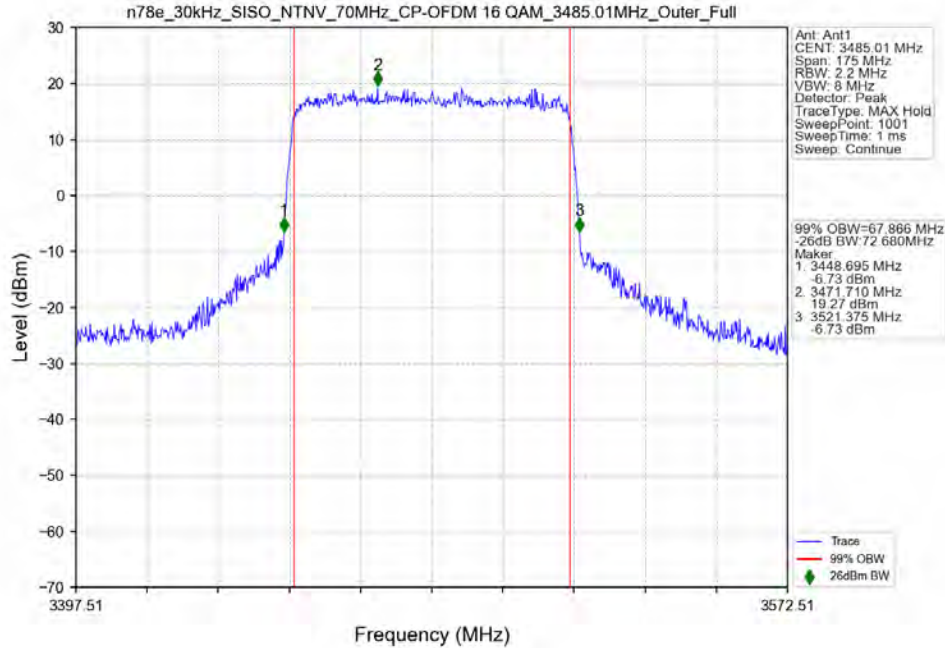
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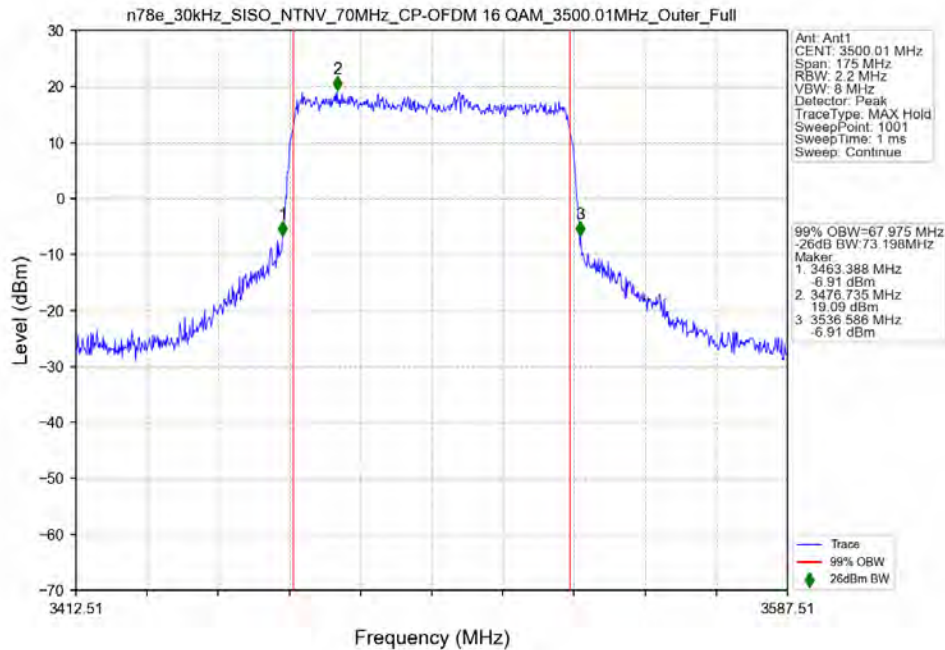


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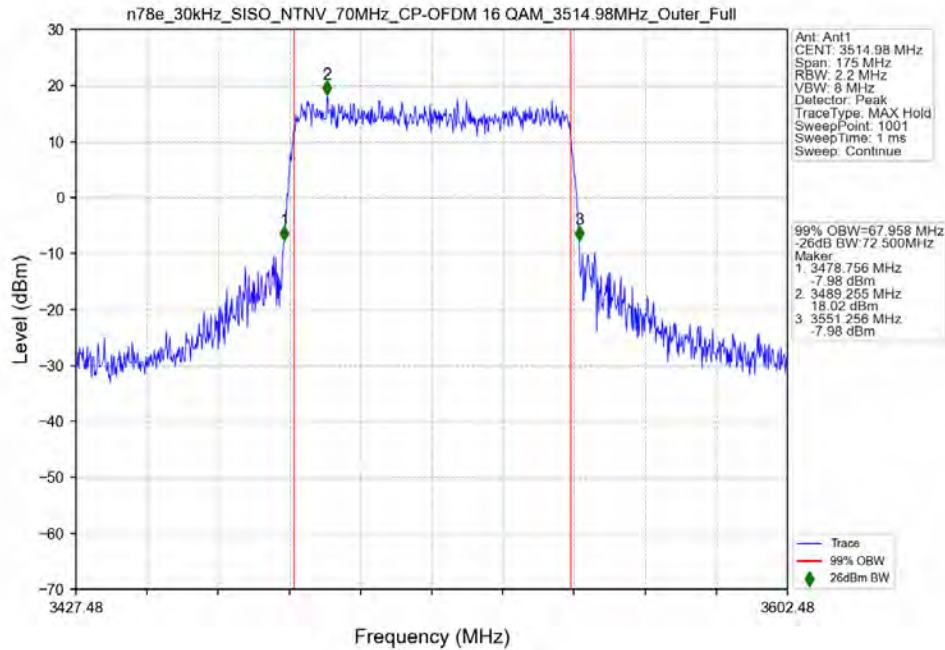
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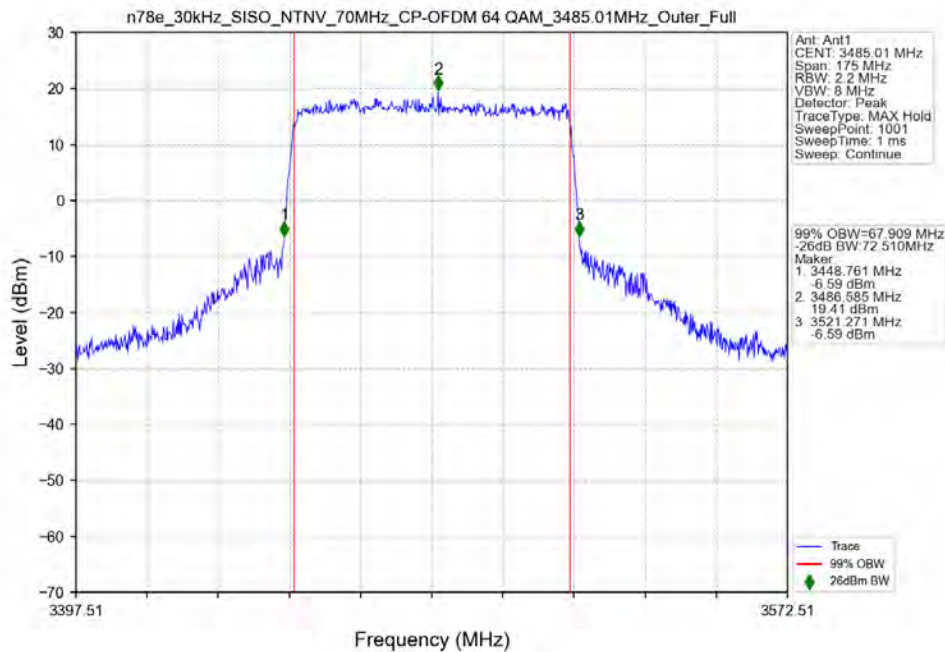


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