

				HV	-9.40	-0.0027	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-14.60	-0.0042	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-8.40	-0.0024	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-12.10	-0.0035	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-8.90	-0.0025	≥ -2.5 & ≤ 2.5	Pass
			40	NV	-17.70	-0.0051	≥ -2.5 & ≤ 2.5	Pass
DFT-s-OFDM 256 QAM	3500.01	Outer_Full	20	LV	-17.10	-0.0049	≥ -2.5 & ≤ 2.5	Pass
				HV	-18.70	-0.0053	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-7.70	-0.0022	≥ -2.5 & ≤ 2.5	Pass
			10	NV	6.20	0.0018	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-7.80	-0.0022	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-7.30	-0.0021	≥ -2.5 & ≤ 2.5	Pass
CP-OFDM QPSK	3500.01	Outer_Full	20	LV	6.30	0.0018	≥ -2.5 & ≤ 2.5	Pass
				HV	-25.30	-0.0072	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-7.00	-0.0020	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-11.90	-0.0034	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-13.60	-0.0039	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-6.80	-0.0019	≥ -2.5 & ≤ 2.5	Pass
CP-OFDM 16 QAM	3500.01	Outer_Full	20	LV	12.10	0.0035	≥ -2.5 & ≤ 2.5	Pass
				HV	-6.40	-0.0018	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-7.40	-0.0021	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-1.70	-0.0005	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-7.10	-0.0020	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-12.80	-0.0037	≥ -2.5 & ≤ 2.5	Pass
CP-OFDM 64 QAM	3500.01	Outer_Full	20	LV	-10.70	-0.0031	≥ -2.5 & ≤ 2.5	Pass
				HV	-14.30	-0.0041	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-8.30	-0.0024	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-11.80	-0.0034	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-4.10	-0.0012	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-6.80	-0.0019	≥ -2.5 & ≤ 2.5	Pass
CP-OFDM 256 QAM	3500.01	Outer_Full	20	LV	-17.20	-0.0049	≥ -2.5 & ≤ 2.5	Pass
				HV	6.40	0.0018	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-13.20	-0.0038	≥ -2.5 & ≤ 2.5	Pass



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			10	NV	-5.70	-0.0016	≥ -2.5 & ≤ 2.5	Pass
			20	NV	0.40	0.0001	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-4.60	-0.0013	≥ -2.5 & ≤ 2.5	Pass
			40	NV	-12.70	-0.0036	≥ -2.5 & ≤ 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 30k_SISO_10MHz_NTNV

5G NR n77d 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	3455.01	Outer_Full	8.68	10.04	/	Pass
	3500.01	Outer_Full	8.76	10.31	/	Pass
	3544.98	Outer_Full	8.76	10.26	/	Pass
DFT-s-OFDM QPSK	3455.01	Outer_Full	8.72	10.36	/	Pass
	3500.01	Outer_Full	8.71	10.27	/	Pass
	3544.98	Outer_Full	8.70	10.22	/	Pass
DFT-s-OFDM 16 QAM	3455.01	Outer_Full	8.74	10.35	/	Pass
	3500.01	Outer_Full	8.73	10.11	/	Pass
	3544.98	Outer_Full	8.65	10.25	/	Pass
DFT-s-OFDM 64 QAM	3455.01	Outer_Full	8.71	10.34	/	Pass
	3500.01	Outer_Full	8.75	10.15	/	Pass
	3544.98	Outer_Full	8.75	10.26	/	Pass
DFT-s-OFDM 256 QAM	3455.01	Outer_Full	8.73	10.11	/	Pass
	3500.01	Outer_Full	8.66	10.42	/	Pass
	3544.98	Outer_Full	8.73	10.25	/	Pass
CP-OFDM QPSK	3455.01	Outer_Full	8.76	10.36	/	Pass
	3500.01	Outer_Full	8.73	10.34	/	Pass
	3544.98	Outer_Full	8.73	10.39	/	Pass
CP-OFDM 16 QAM	3455.01	Outer_Full	8.75	10.39	/	Pass
	3500.01	Outer_Full	8.74	10.50	/	Pass
	3544.98	Outer_Full	8.75	10.22	/	Pass
CP-OFDM 64 QAM	3455.01	Outer_Full	8.74	10.08	/	Pass
	3500.01	Outer_Full	8.73	10.19	/	Pass



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	3544.98	Outer_Full	8.71	10.28	/	Pass
CP-OFDM 256 QAM	3455.01	Outer_Full	8.73	9.97	/	Pass
	3500.01	Outer_Full	8.75	10.09	/	Pass
	3544.98	Outer_Full	8.75	10.27	/	Pass

1.1.2 30k_SISO_15MHz_NTNV

5G NR n77d 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	3457.5	Outer_Full	13.09	14.58	/	Pass
	3500.01	Outer_Full	13.11	14.89	/	Pass
	3542.49	Outer_Full	13.11	14.71	/	Pass
DFT-s-OFDM QPSK	3457.5	Outer_Full	13.12	14.89	/	Pass
	3500.01	Outer_Full	13.09	15.07	/	Pass
	3542.49	Outer_Full	13.08	14.77	/	Pass
DFT-s-OFDM 16 QAM	3457.5	Outer_Full	13.10	14.73	/	Pass
	3500.01	Outer_Full	13.06	14.82	/	Pass
	3542.49	Outer_Full	13.08	14.73	/	Pass
DFT-s-OFDM 64 QAM	3457.5	Outer_Full	13.12	15.04	/	Pass
	3500.01	Outer_Full	13.10	14.91	/	Pass
	3542.49	Outer_Full	13.14	15.03	/	Pass
DFT-s-OFDM 256 QAM	3457.5	Outer_Full	13.09	14.92	/	Pass
	3500.01	Outer_Full	13.09	14.81	/	Pass
	3542.49	Outer_Full	13.09	14.88	/	Pass
CP-OFDM QPSK	3457.5	Outer_Full	13.77	15.59	/	Pass
	3500.01	Outer_Full	13.77	15.62	/	Pass
	3542.49	Outer_Full	13.72	15.41	/	Pass
CP-OFDM 16 QAM	3457.5	Outer_Full	13.78	15.62	/	Pass
	3500.01	Outer_Full	13.73	15.61	/	Pass
	3542.49	Outer_Full	13.77	15.41	/	Pass
CP-OFDM 64 QAM	3457.5	Outer_Full	13.76	15.50	/	Pass
	3500.01	Outer_Full	13.75	15.71	/	Pass
	3542.49	Outer_Full	13.78	15.97	/	Pass
CP-OFDM 256 QAM	3457.5	Outer_Full	13.77	15.52	/	Pass
	3500.01	Outer_Full	13.73	15.44	/	Pass
	3542.49	Outer_Full	13.74	15.53	/	Pass



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3.1.3 30k_SISO_20MHz_NTNV

5G NR n77d 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	18.11	19.99	/	Pass
	3500.01	Outer_Full	18.10	19.95	/	Pass
	3540	Outer_Full	18.12	19.85	/	Pass
DFT-s-OFDM QPSK	3460.02	Outer_Full	18.07	19.80	/	Pass
	3500.01	Outer_Full	18.11	20.09	/	Pass
	3540	Outer_Full	18.13	19.98	/	Pass
DFT-s-OFDM 16 QAM	3460.02	Outer_Full	18.07	19.68	/	Pass
	3500.01	Outer_Full	18.13	19.78	/	Pass
	3540	Outer_Full	18.06	19.56	/	Pass
DFT-s-OFDM 64 QAM	3460.02	Outer_Full	18.09	20.05	/	Pass
	3500.01	Outer_Full	18.12	19.95	/	Pass
	3540	Outer_Full	18.11	19.59	/	Pass
DFT-s-OFDM 256 QAM	3460.02	Outer_Full	18.11	20.07	/	Pass
	3500.01	Outer_Full	18.09	19.89	/	Pass
	3540	Outer_Full	18.09	19.85	/	Pass
CP-OFDM QPSK	3460.02	Outer_Full	18.37	20.43	/	Pass
	3500.01	Outer_Full	18.43	20.49	/	Pass
	3540	Outer_Full	18.39	20.45	/	Pass
CP-OFDM 16 QAM	3460.02	Outer_Full	18.45	20.48	/	Pass
	3500.01	Outer_Full	18.42	21.04	/	Pass
	3540	Outer_Full	18.41	20.32	/	Pass
CP-OFDM 64 QAM	3460.02	Outer_Full	18.41	20.16	/	Pass
	3500.01	Outer_Full	18.43	20.44	/	Pass
	3540	Outer_Full	18.39	20.45	/	Pass
CP-OFDM 256 QAM	3460.02	Outer_Full	18.44	20.21	/	Pass
	3500.01	Outer_Full	18.45	20.27	/	Pass
	3540	Outer_Full	18.39	20.45	/	Pass

3.1.4 30k_SISO_30MHz_NTNV

5G NR n77d SCS=30kHz SISO 30MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict



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DFT-s-OFDM PI/2 BPSK	3465	Outer_Full	27.09	29.34	/	Pass
	3500.01	Outer_Full	27.12	29.39	/	Pass
	3534.99	Outer_Full	27.17	29.39	/	Pass
DFT-s-OFDM QPSK	3465	Outer_Full	27.20	29.57	/	Pass
	3500.01	Outer_Full	27.12	29.51	/	Pass
	3534.99	Outer_Full	27.15	29.58	/	Pass
DFT-s-OFDM 16 QAM	3465	Outer_Full	27.11	29.44	/	Pass
	3500.01	Outer_Full	27.16	29.04	/	Pass
	3534.99	Outer_Full	27.09	29.39	/	Pass
DFT-s-OFDM 64 QAM	3465	Outer_Full	27.03	29.48	/	Pass
	3500.01	Outer_Full	27.12	29.37	/	Pass
	3534.99	Outer_Full	27.20	29.37	/	Pass
DFT-s-OFDM 256 QAM	3465	Outer_Full	27.11	29.48	/	Pass
	3500.01	Outer_Full	27.10	29.52	/	Pass
	3534.99	Outer_Full	27.17	29.44	/	Pass
CP-OFDM QPSK	3465	Outer_Full	28.12	30.61	/	Pass
	3500.01	Outer_Full	28.13	30.42	/	Pass
	3534.99	Outer_Full	28.18	30.52	/	Pass
CP-OFDM 16 QAM	3465	Outer_Full	28.11	30.51	/	Pass
	3500.01	Outer_Full	28.20	30.68	/	Pass
	3534.99	Outer_Full	28.18	30.52	/	Pass
CP-OFDM 64 QAM	3465	Outer_Full	28.11	30.44	/	Pass
	3500.01	Outer_Full	28.07	31.02	/	Pass
	3534.99	Outer_Full	28.11	30.75	/	Pass
CP-OFDM 256 QAM	3465	Outer_Full	28.07	30.54	/	Pass
	3500.01	Outer_Full	28.11	30.76	/	Pass
	3534.99	Outer_Full	28.16	30.55	/	Pass

3.1.5 30k_SISO_40MHz_NTNV

5G NR n77d 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	36.09	38.67	/	Pass
	3500.01	Outer_Full	36.14	38.88	/	Pass
	3529.98	Outer_Full	36.11	38.64	/	Pass
DFT-s-OFDM QPSK	3470.01	Outer_Full	36.00	38.80	/	Pass
	3500.01	Outer_Full	36.11	39.01	/	Pass



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	3529.98	Outer_Full	36.09	38.79	/	Pass
DFT-s-OFDM 16 QAM	3470.01	Outer_Full	36.06	38.62	/	Pass
	3500.01	Outer_Full	36.04	38.63	/	Pass
	3529.98	Outer_Full	36.13	38.76	/	Pass
DFT-s-OFDM 64 QAM	3470.01	Outer_Full	35.92	38.92	/	Pass
	3500.01	Outer_Full	36.11	39.02	/	Pass
	3529.98	Outer_Full	36.17	38.91	/	Pass
DFT-s-OFDM 256 QAM	3470.01	Outer_Full	36.02	38.80	/	Pass
	3500.01	Outer_Full	36.06	39.02	/	Pass
	3529.98	Outer_Full	36.21	38.84	/	Pass
CP-OFDM QPSK	3470.01	Outer_Full	38.11	40.78	/	Pass
	3500.01	Outer_Full	38.13	41.06	/	Pass
	3529.98	Outer_Full	38.16	41.16	/	Pass
CP-OFDM 16 QAM	3470.01	Outer_Full	38.09	40.95	/	Pass
	3500.01	Outer_Full	38.13	41.04	/	Pass
	3529.98	Outer_Full	38.16	40.91	/	Pass
CP-OFDM 64 QAM	3470.01	Outer_Full	38.02	40.90	/	Pass
	3500.01	Outer_Full	38.16	41.15	/	Pass
	3529.98	Outer_Full	38.22	40.96	/	Pass
CP-OFDM 256 QAM	3470.01	Outer_Full	38.09	40.70	/	Pass
	3500.01	Outer_Full	38.16	41.01	/	Pass
	3529.98	Outer_Full	38.16	40.93	/	Pass

3.1.6 30k_SISO_50MHz_NTNV

5G NR n77d 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	46.03	49.27	/	Pass
	3500.01	Outer_Full	46.09	49.25	/	Pass
	3525	Outer_Full	46.13	49.39	/	Pass
DFT-s-OFDM QPSK	3475.02	Outer_Full	45.96	49.50	/	Pass
	3500.01	Outer_Full	46.16	49.43	/	Pass
	3525	Outer_Full	46.27	49.45	/	Pass
DFT-s-OFDM 16 QAM	3475.02	Outer_Full	46.06	49.32	/	Pass
	3500.01	Outer_Full	46.03	49.39	/	Pass
	3525	Outer_Full	46.20	49.01	/	Pass
DFT-s-OFDM 64 QAM	3475.02	Outer_Full	46.08	49.47	/	Pass



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DFT-s-OFDM 256 QAM	3500.01	Outer_Full	46.14	49.33	/	Pass
	3525	Outer_Full	46.12	49.66	/	Pass
	3475.02	Outer_Full	46.04	49.31	/	Pass
	3500.01	Outer_Full	46.11	49.37	/	Pass
CP-OFDM QPSK	3525	Outer_Full	46.19	49.30	/	Pass
	3475.02	Outer_Full	47.91	51.15	/	Pass
	3500.01	Outer_Full	47.85	51.25	/	Pass
CP-OFDM 16 QAM	3525	Outer_Full	47.86	51.16	/	Pass
	3475.02	Outer_Full	47.66	51.30	/	Pass
	3500.01	Outer_Full	47.76	51.08	/	Pass
CP-OFDM 64 QAM	3525	Outer_Full	47.92	51.20	/	Pass
	3475.02	Outer_Full	47.74	51.05	/	Pass
	3500.01	Outer_Full	47.89	51.15	/	Pass
CP-OFDM 256 QAM	3525	Outer_Full	47.87	51.24	/	Pass
	3475.02	Outer_Full	47.96	50.46	/	Pass
	3500.01	Outer_Full	47.89	51.30	/	Pass
	3525	Outer_Full	47.98	51.36	/	Pass

3. 1.7 30k_SISO_60MHz_NTNV

5G NR n77d 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	58.30	62.23	/	Pass
	3500.01	Outer_Full	58.68	61.98	/	Pass
	3519.99	Outer_Full	58.42	62.35	/	Pass
DFT-s-OFDM QPSK	3480	Outer_Full	58.34	62.26	/	Pass
	3500.01	Outer_Full	58.38	62.33	/	Pass
	3519.99	Outer_Full	58.22	62.42	/	Pass
DFT-s-OFDM 16 QAM	3480	Outer_Full	58.25	62.32	/	Pass
	3500.01	Outer_Full	58.34	62.23	/	Pass
	3519.99	Outer_Full	58.38	62.27	/	Pass
DFT-s-OFDM 64 QAM	3480	Outer_Full	58.23	62.28	/	Pass
	3500.01	Outer_Full	58.36	62.44	/	Pass
	3519.99	Outer_Full	58.44	62.34	/	Pass
DFT-s-OFDM 256 QAM	3480	Outer_Full	58.21	62.28	/	Pass
	3500.01	Outer_Full	58.22	62.40	/	Pass
	3519.99	Outer_Full	58.49	62.41	/	Pass



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CP-OFDM QPSK	3480	Outer_Full	58.14	62.22	/	Pass
	3500.01	Outer_Full	58.40	62.39	/	Pass
	3519.99	Outer_Full	58.38	62.20	/	Pass
CP-OFDM 16 QAM	3480	Outer_Full	58.29	62.20	/	Pass
	3500.01	Outer_Full	58.27	62.13	/	Pass
	3519.99	Outer_Full	58.30	62.42	/	Pass
CP-OFDM 64 QAM	3480	Outer_Full	58.27	62.18	/	Pass
	3500.01	Outer_Full	58.37	62.19	/	Pass
	3519.99	Outer_Full	58.24	62.22	/	Pass
CP-OFDM 256 QAM	3480	Outer_Full	58.23	63.50	/	Pass
	3500.01	Outer_Full	58.25	62.19	/	Pass
	3519.99	Outer_Full	58.34	62.34	/	Pass

3.1.8 30k_SISO_70MHz_NTNV

5G NR n77d 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	64.94	69.40	/	Pass
	3500.01	Outer_Full	65.00	69.45	/	Pass
	3514.98	Outer_Full	65.01	69.48	/	Pass
DFT-s-OFDM QPSK	3485.01	Outer_Full	64.89	69.47	/	Pass
	3500.01	Outer_Full	64.98	69.56	/	Pass
	3514.98	Outer_Full	65.02	69.60	/	Pass
DFT-s-OFDM 16 QAM	3485.01	Outer_Full	64.89	69.42	/	Pass
	3500.01	Outer_Full	64.93	69.53	/	Pass
	3514.98	Outer_Full	65.05	69.42	/	Pass
DFT-s-OFDM 64 QAM	3485.01	Outer_Full	64.87	69.61	/	Pass
	3500.01	Outer_Full	65.10	69.50	/	Pass
	3514.98	Outer_Full	65.01	69.47	/	Pass
DFT-s-OFDM 256 QAM	3485.01	Outer_Full	64.85	69.36	/	Pass
	3500.01	Outer_Full	64.98	69.55	/	Pass
	3514.98	Outer_Full	65.09	69.49	/	Pass
CP-OFDM QPSK	3485.01	Outer_Full	68.09	72.72	/	Pass
	3500.01	Outer_Full	68.08	72.69	/	Pass
	3514.98	Outer_Full	68.10	72.55	/	Pass
CP-OFDM 16 QAM	3485.01	Outer_Full	68.00	72.93	/	Pass
	3500.01	Outer_Full	68.08	72.86	/	Pass



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	3514.98	Outer_Full	68.08	72.39	/	Pass
CP-OFDM 64 QAM	3485.01	Outer_Full	68.19	73.17	/	Pass
	3500.01	Outer_Full	68.16	73.39	/	Pass
	3514.98	Outer_Full	68.13	72.76	/	Pass
CP-OFDM 256 QAM	3485.01	Outer_Full	67.93	72.83	/	Pass
	3500.01	Outer_Full	68.14	72.80	/	Pass
	3514.98	Outer_Full	68.04	72.64	/	Pass

3.1.9 30k_SISO_80MHz_NTNV

5G NR n77d 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	3490.02	Outer_Full	77.81	82.71	/	Pass
	3500.01	Outer_Full	77.63	82.59	/	Pass
	3510	Outer_Full	77.45	83.01	/	Pass
DFT-s-OFDM QPSK	3490.02	Outer_Full	77.76	83.02	/	Pass
	3500.01	Outer_Full	77.51	82.82	/	Pass
	3510	Outer_Full	77.74	83.17	/	Pass
DFT-s-OFDM 16 QAM	3490.02	Outer_Full	77.69	82.98	/	Pass
	3500.01	Outer_Full	77.25	83.05	/	Pass
	3510	Outer_Full	78.15	82.89	/	Pass
DFT-s-OFDM 64 QAM	3490.02	Outer_Full	77.68	82.89	/	Pass
	3500.01	Outer_Full	77.62	82.70	/	Pass
	3510	Outer_Full	77.72	82.53	/	Pass
DFT-s-OFDM 256 QAM	3490.02	Outer_Full	77.72	83.05	/	Pass
	3500.01	Outer_Full	77.77	82.57	/	Pass
	3510	Outer_Full	77.65	82.95	/	Pass
CP-OFDM QPSK	3490.02	Outer_Full	77.94	83.22	/	Pass
	3500.01	Outer_Full	77.90	83.12	/	Pass
	3510	Outer_Full	78.31	83.57	/	Pass
CP-OFDM 16 QAM	3490.02	Outer_Full	77.98	83.08	/	Pass
	3500.01	Outer_Full	78.06	82.90	/	Pass
	3510	Outer_Full	78.17	83.27	/	Pass
CP-OFDM 64 QAM	3490.02	Outer_Full	78.11	83.34	/	Pass
	3500.01	Outer_Full	78.03	82.93	/	Pass
	3510	Outer_Full	78.14	83.54	/	Pass
CP-OFDM 256 QAM	3490.02	Outer_Full	77.84	83.38	/	Pass



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	3500.01	Outer_Full	78.32	82.90	/	Pass
	3510	Outer_Full	77.67	83.02	/	Pass

3.1.10 30k_SISO_90MHz_NTNV

5G NR n77d 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	3495	Outer_Full	87.23	92.58	/	Pass
	3500.01	Outer_Full	87.37	92.55	/	Pass
	3504.99	Outer_Full	87.46	92.45	/	Pass
DFT-s-OFDM QPSK	3495	Outer_Full	87.39	92.54	/	Pass
	3500.01	Outer_Full	87.37	92.72	/	Pass
	3504.99	Outer_Full	87.29	92.79	/	Pass
DFT-s-OFDM 16 QAM	3495	Outer_Full	87.35	93.09	/	Pass
	3500.01	Outer_Full	87.35	93.39	/	Pass
	3504.99	Outer_Full	87.13	93.01	/	Pass
DFT-s-OFDM 64 QAM	3495	Outer_Full	87.28	92.94	/	Pass
	3500.01	Outer_Full	87.54	93.08	/	Pass
	3504.99	Outer_Full	87.48	92.87	/	Pass
DFT-s-OFDM 256 QAM	3495	Outer_Full	87.29	92.07	/	Pass
	3500.01	Outer_Full	87.45	93.27	/	Pass
	3504.99	Outer_Full	87.56	92.80	/	Pass
CP-OFDM QPSK	3495	Outer_Full	88.21	93.77	/	Pass
	3500.01	Outer_Full	87.99	93.73	/	Pass
	3504.99	Outer_Full	88.34	93.85	/	Pass
CP-OFDM 16 QAM	3495	Outer_Full	87.77	93.58	/	Pass
	3500.01	Outer_Full	88.39	93.79	/	Pass
	3504.99	Outer_Full	88.43	94.14	/	Pass
CP-OFDM 64 QAM	3495	Outer_Full	88.15	93.62	/	Pass
	3500.01	Outer_Full	87.92	93.72	/	Pass
	3504.99	Outer_Full	87.93	93.62	/	Pass
CP-OFDM 256 QAM	3495	Outer_Full	87.98	94.07	/	Pass
	3500.01	Outer_Full	88.23	93.85	/	Pass
	3504.99	Outer_Full	88.32	93.67	/	Pass



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3. 1.1.11 30k_SISO_100MHz_NTNV

5G NR n77d SCS=30kHz SISO 100MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3500.01	Outer_Full	97.17	103.51	/	Pass
	3500.01	Outer_Full	97.27	103.30	/	Pass
	3499.98	Outer_Full	97.20	103.48	/	Pass
DFT-s-OFDM QPSK	3500.01	Outer_Full	97.46	102.91	/	Pass
	3500.01	Outer_Full	97.34	103.45	/	Pass
	3499.98	Outer_Full	96.87	103.55	/	Pass
DFT-s-OFDM 16 QAM	3500.01	Outer_Full	97.64	103.39	/	Pass
	3500.01	Outer_Full	97.31	103.38	/	Pass
	3499.98	Outer_Full	97.28	103.30	/	Pass
DFT-s-OFDM 64 QAM	3500.01	Outer_Full	97.69	103.41	/	Pass
	3500.01	Outer_Full	97.19	103.41	/	Pass
	3499.98	Outer_Full	96.99	103.55	/	Pass
DFT-s-OFDM 256 QAM	3500.01	Outer_Full	97.24	103.66	/	Pass
	3500.01	Outer_Full	97.19	103.64	/	Pass
	3499.98	Outer_Full	97.06	103.56	/	Pass
CP-OFDM QPSK	3500.01	Outer_Full	98.24	104.32	/	Pass
	3500.01	Outer_Full	98.60	104.79	/	Pass
	3499.98	Outer_Full	98.31	104.65	/	Pass
CP-OFDM 16 QAM	3500.01	Outer_Full	98.22	104.53	/	Pass
	3500.01	Outer_Full	98.13	104.30	/	Pass
	3499.98	Outer_Full	98.36	104.71	/	Pass
CP-OFDM 64 QAM	3500.01	Outer_Full	98.45	104.56	/	Pass
	3500.01	Outer_Full	98.16	104.72	/	Pass
	3499.98	Outer_Full	98.19	104.61	/	Pass
CP-OFDM 256 QAM	3500.01	Outer_Full	98.44	104.30	/	Pass
	3500.01	Outer_Full	98.17	104.85	/	Pass
	3499.98	Outer_Full	98.43	104.46	/	Pass



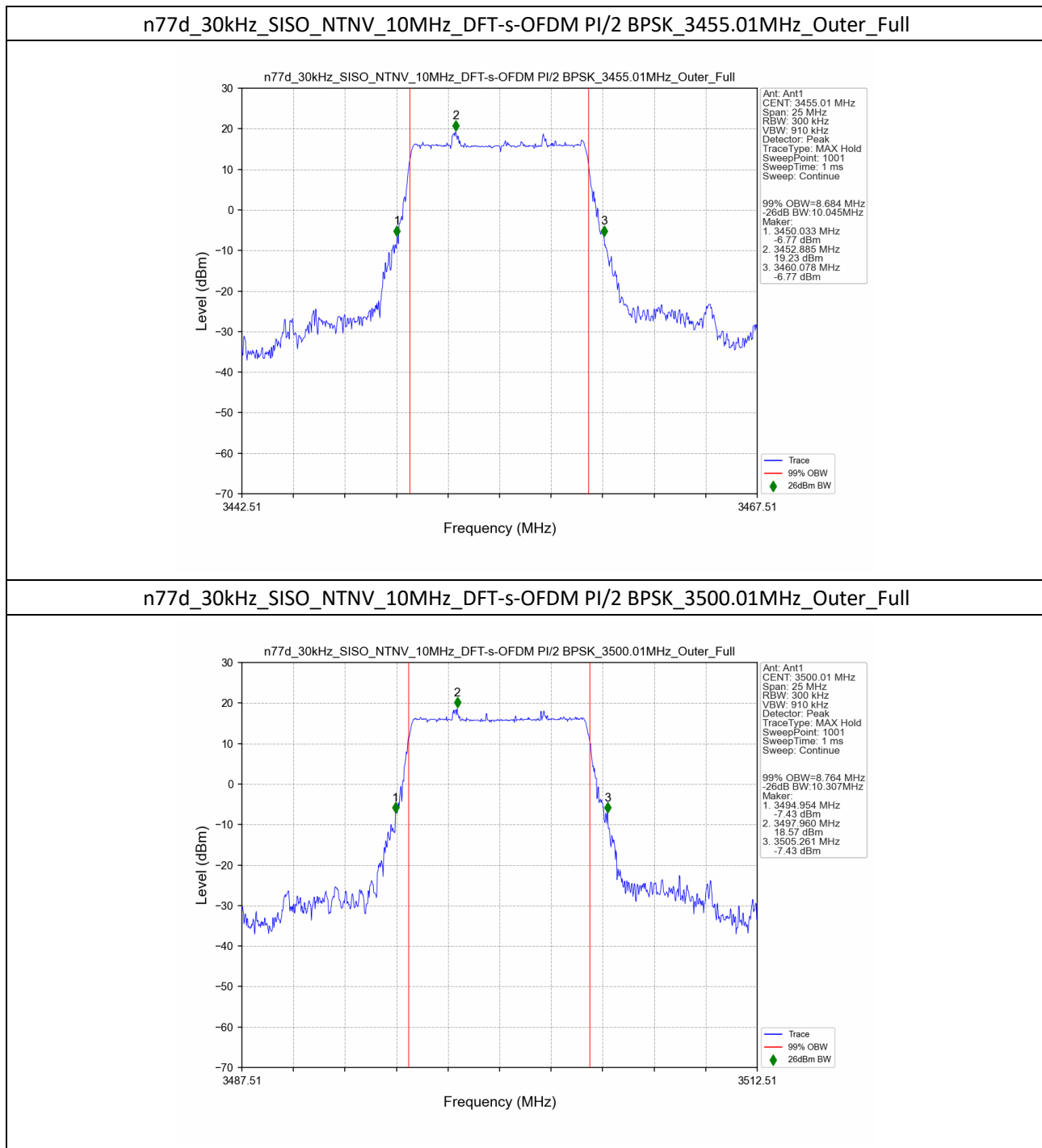
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3.2 Test Graph

3.2.1 30k_SISO_10MHz_NTNV

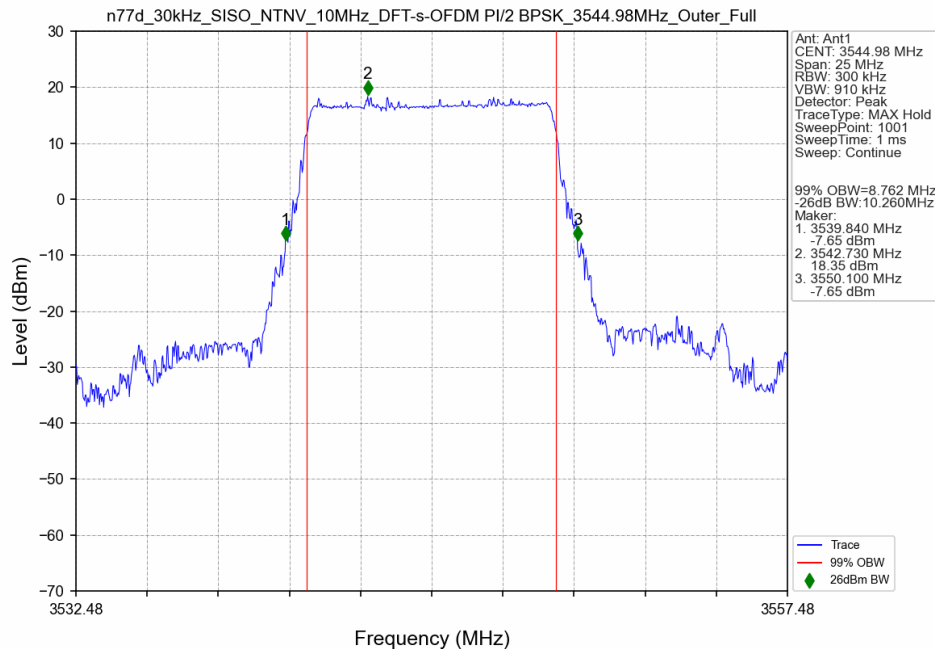


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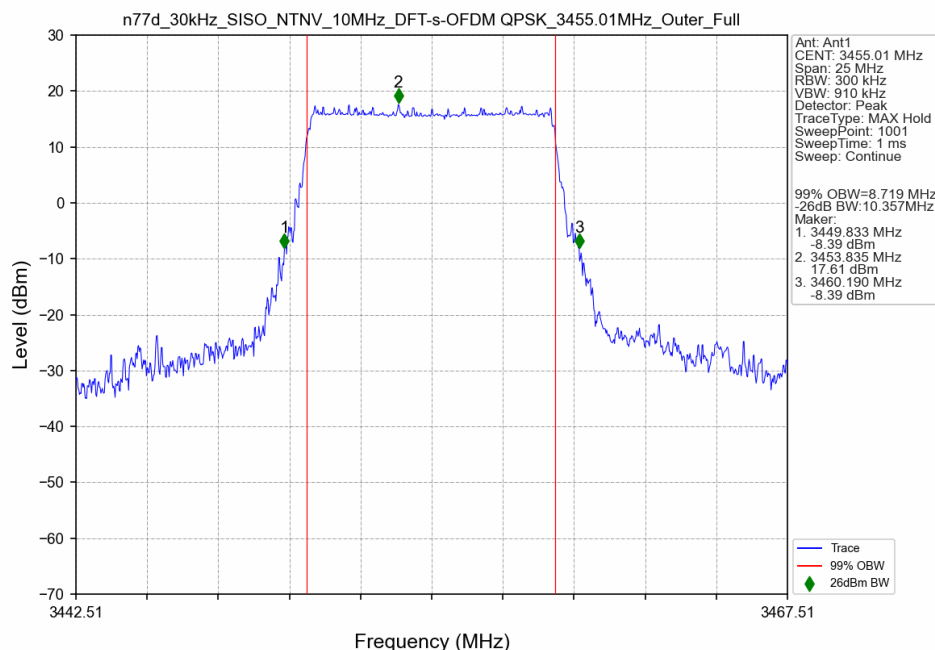
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n77d_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_3544.98MHz_Outer_Full



n77d_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_3455.01MHz_Outer_Full

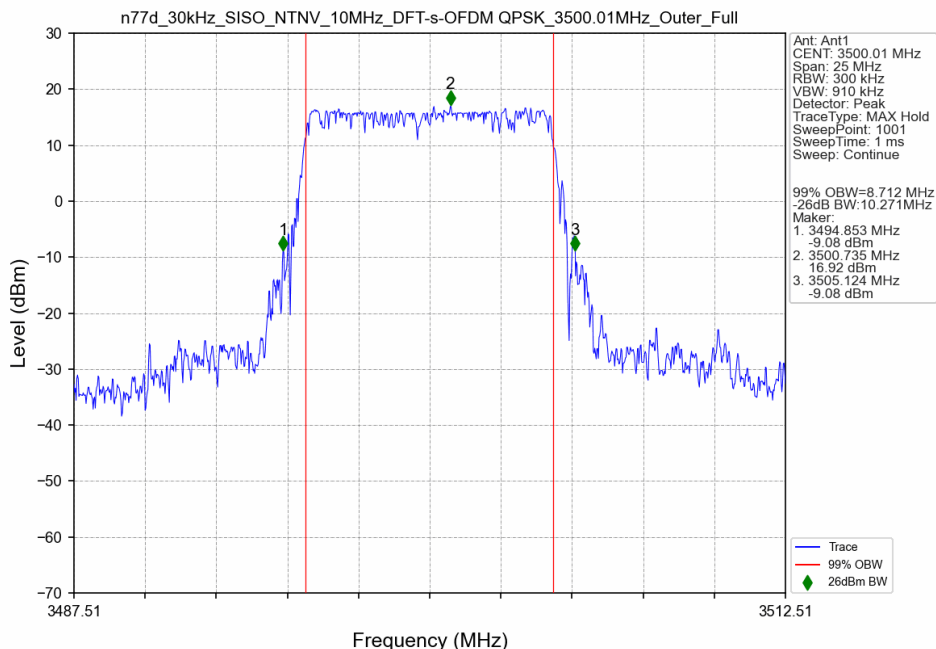


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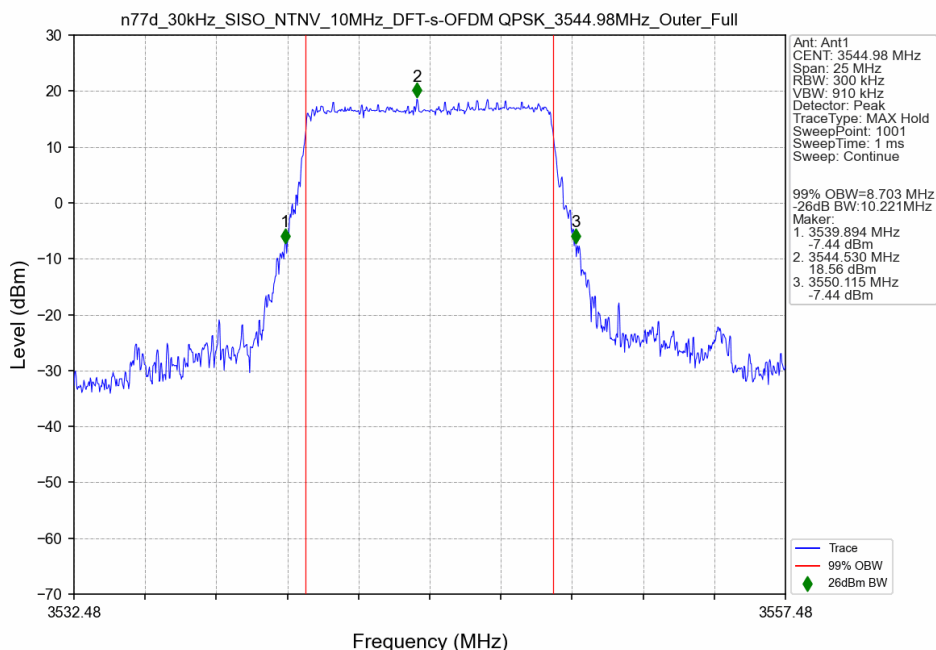
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n77d_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_3500.01MHz_Outer_Full



n77d_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_3544.98MHz_Outer_Full

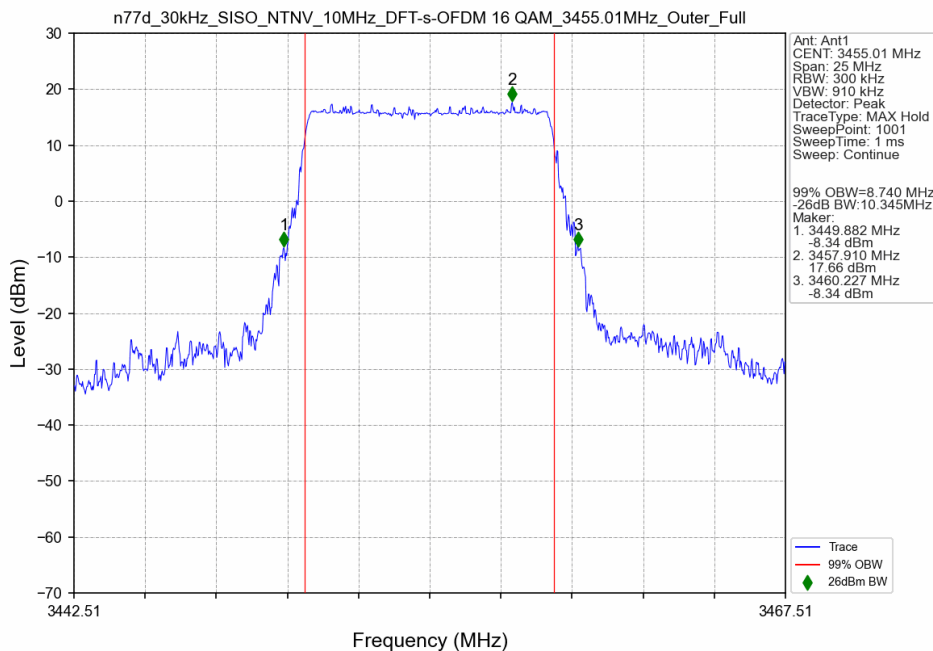


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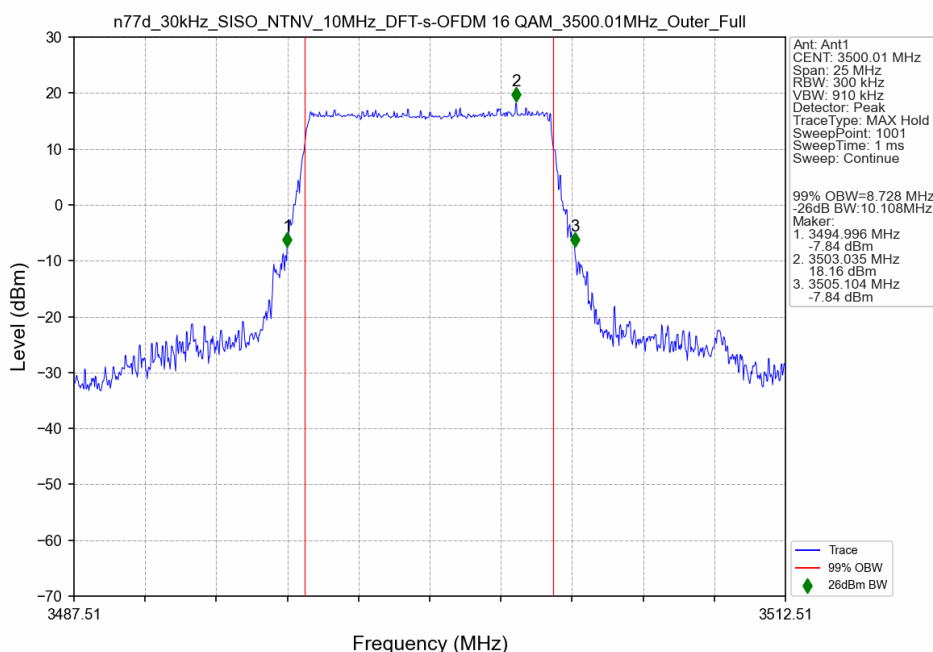
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n77d_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 16 QAM_3455.01MHz_Outer_Full



n77d_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 16 QAM_3500.01MHz_Outer_Full

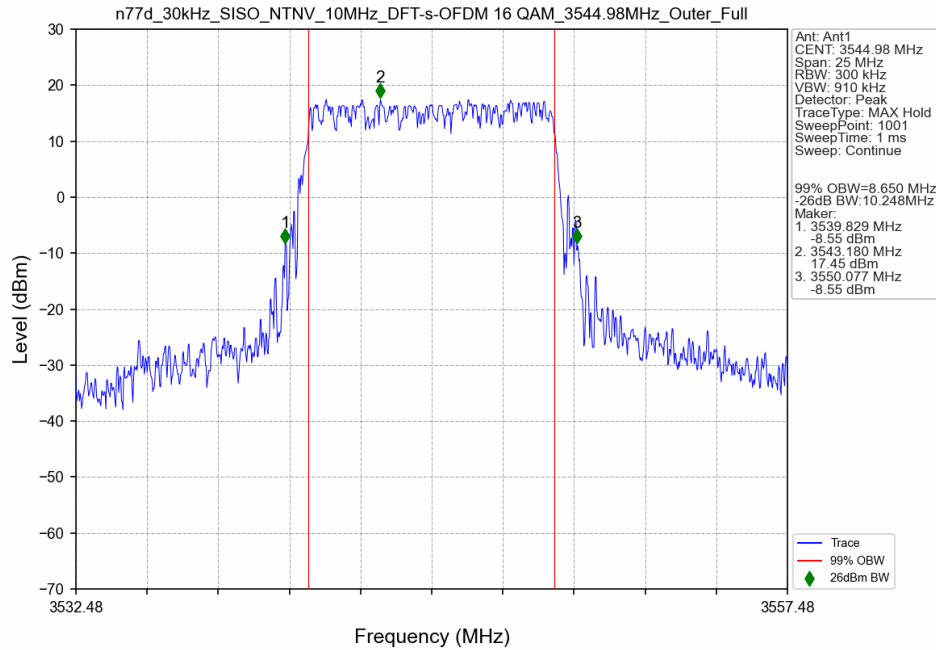


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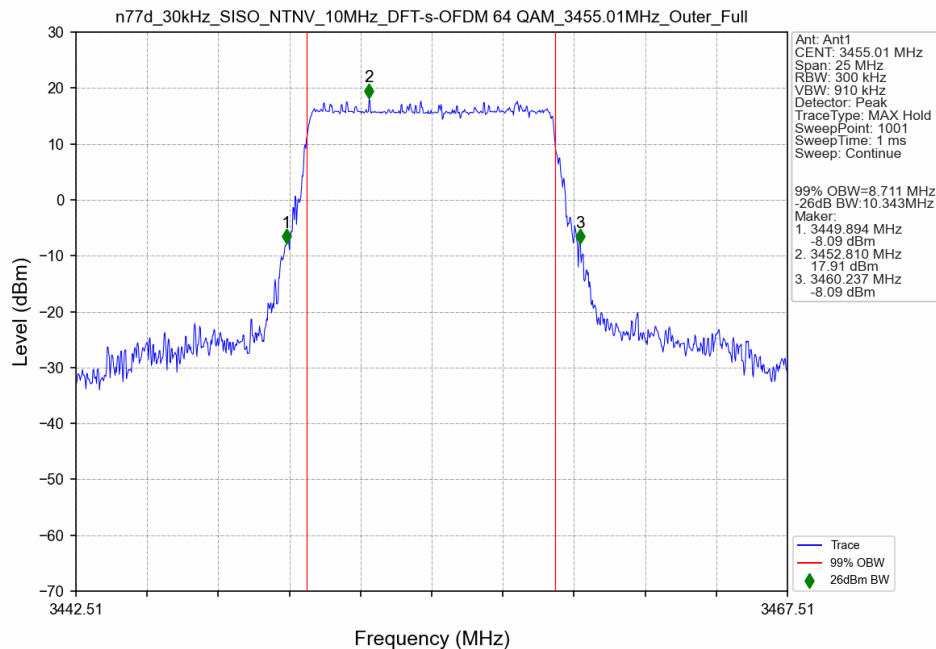
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n77d_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 16 QAM_3544.98MHz_Outer_Full



n77d_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 64 QAM_3455.01MHz_Outer_Full

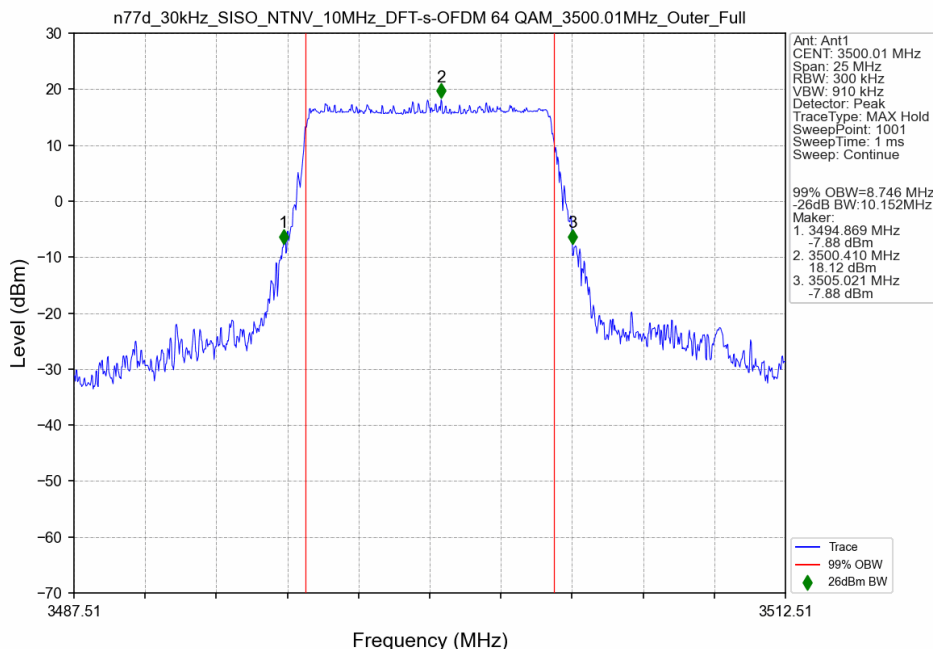


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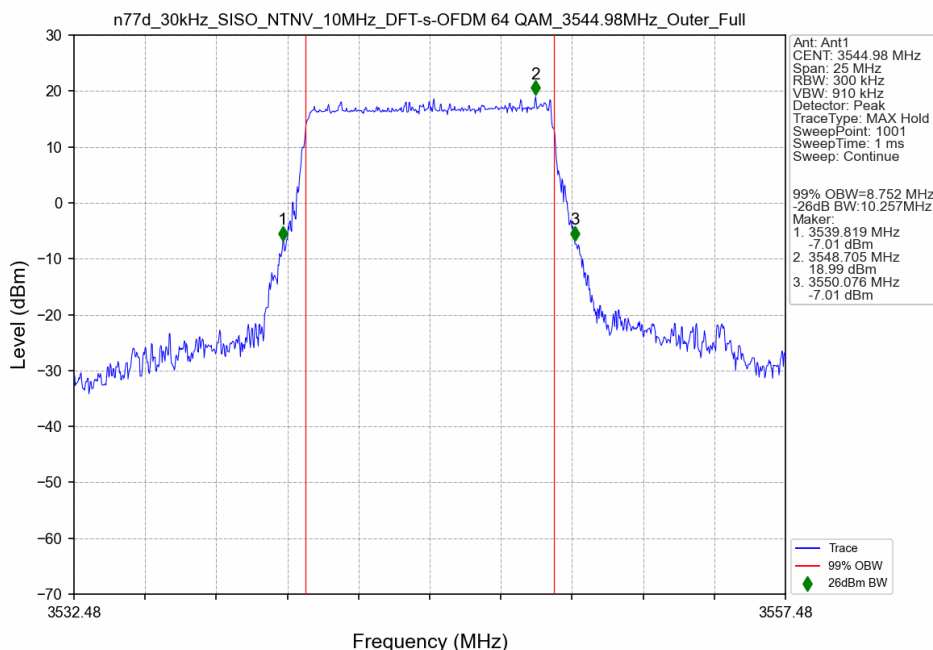
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n77d_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 64 QAM_3500.01MHz_Outer_Full



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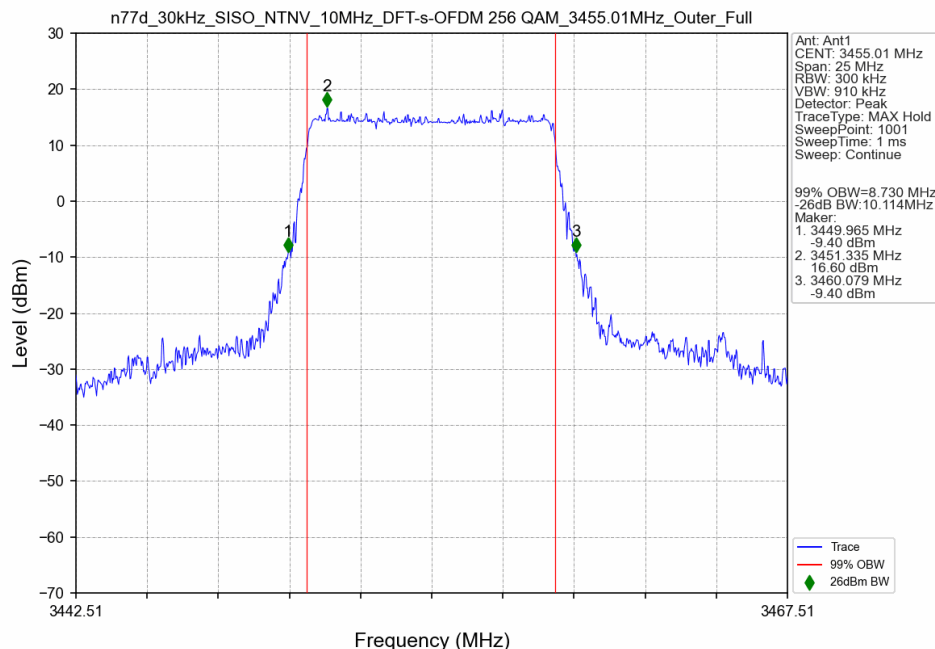


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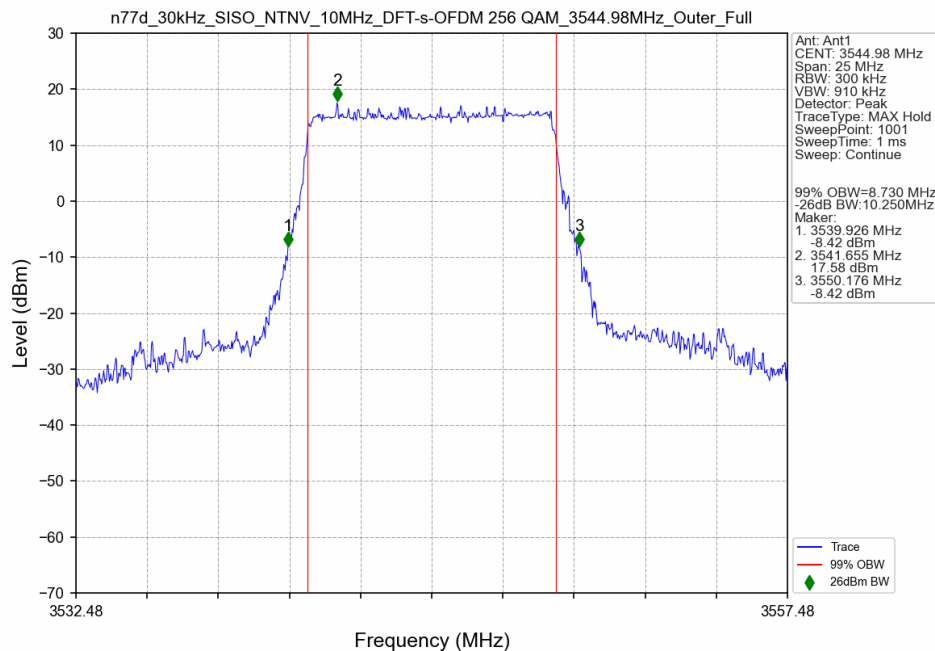


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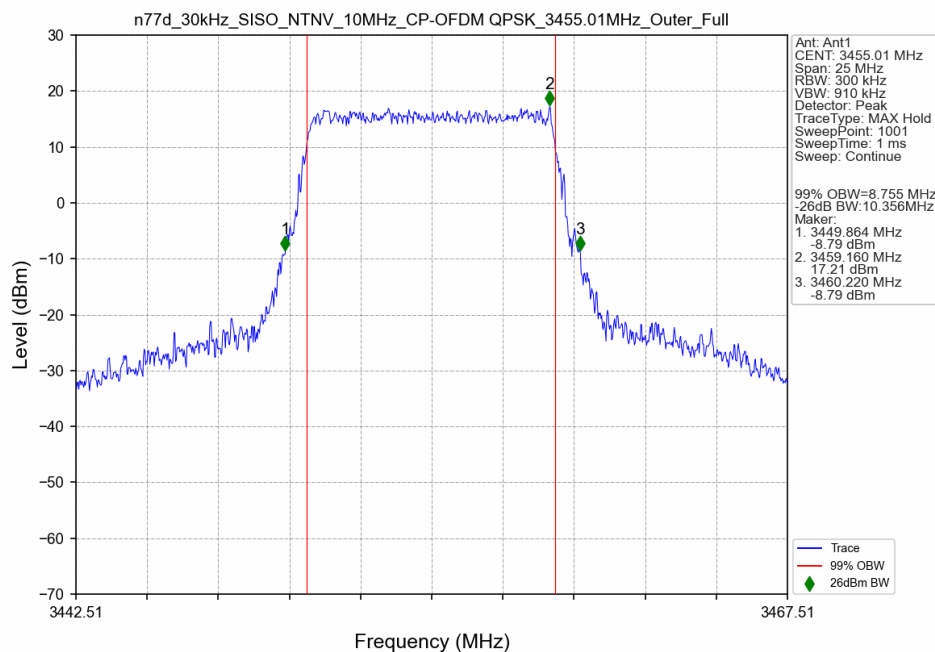
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n77d_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 256 QAM_3544.98MHz_Outer_Full



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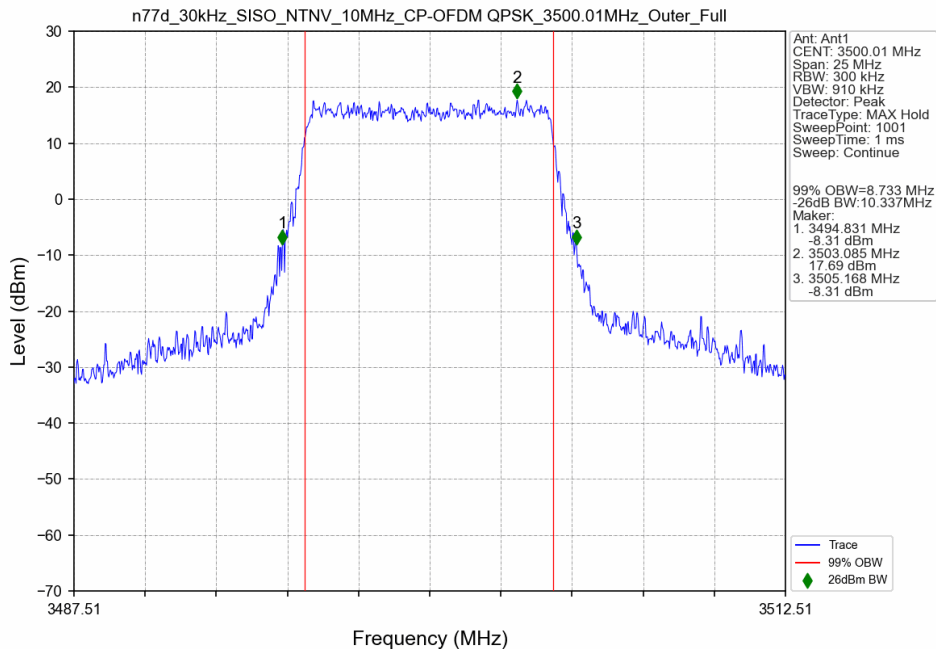


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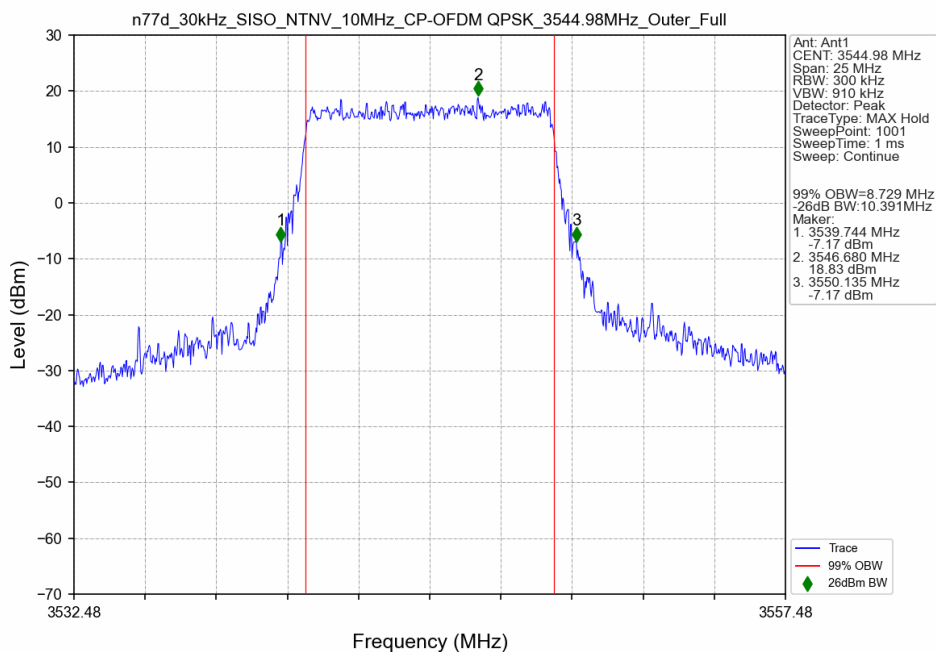
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n77d_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_3500.01MHz_Outer_Full



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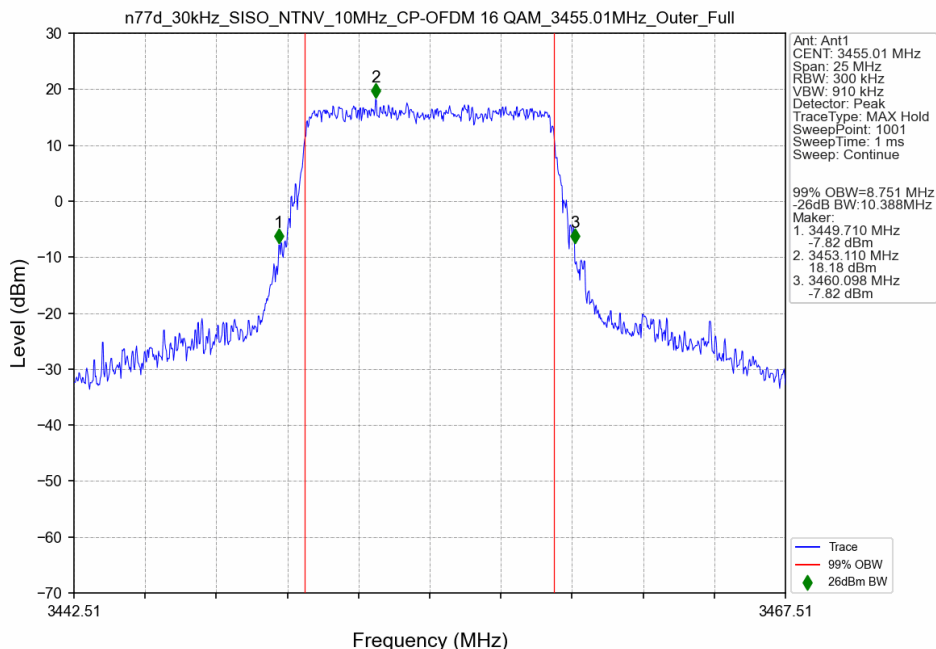


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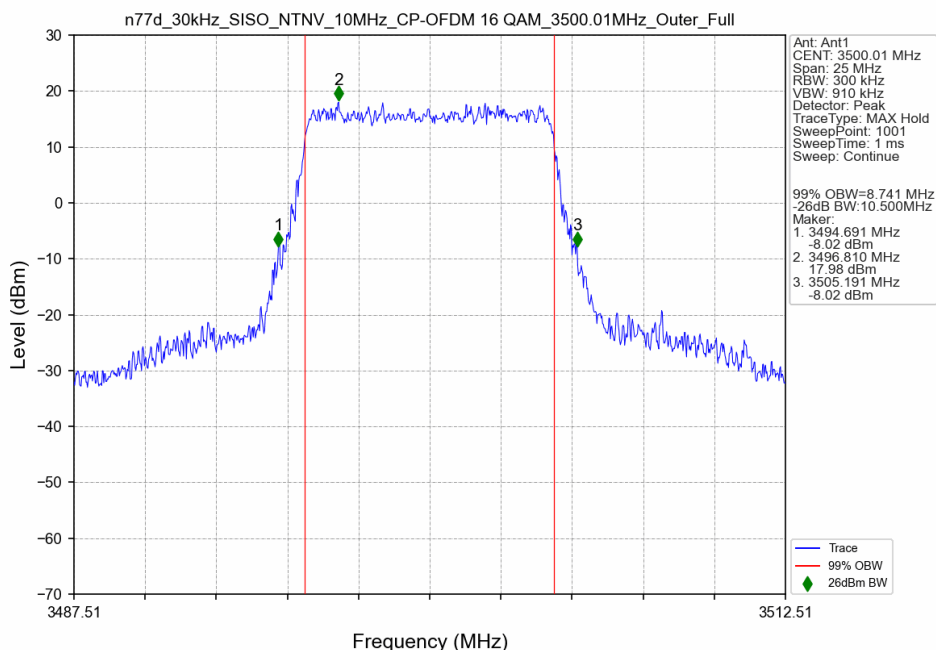
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n77d_30kHz_SISO_NTNV_10MHz_CP-OFDM 16 QAM_3455.01MHz_Outer_Full



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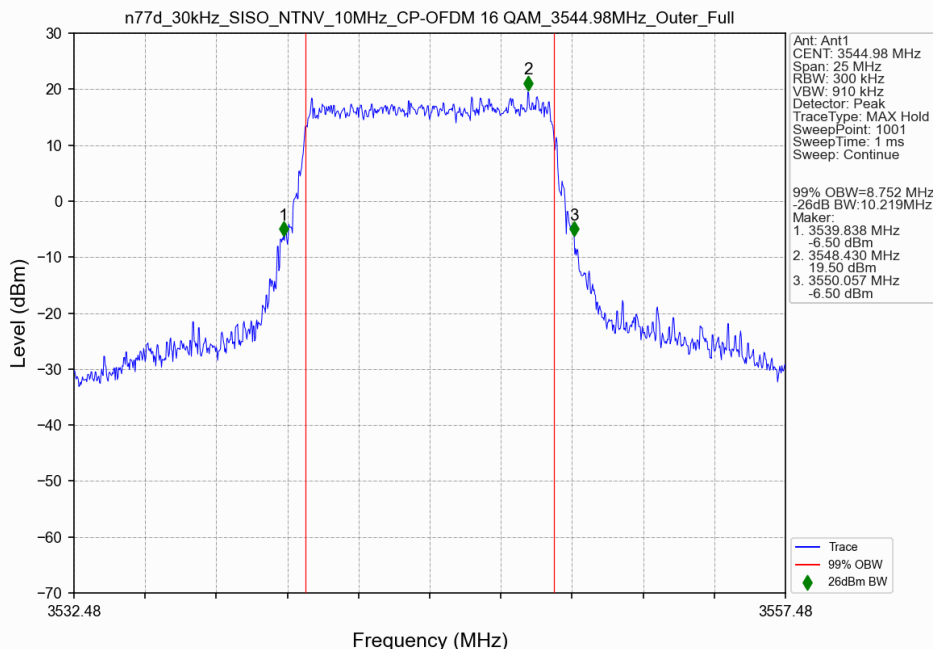


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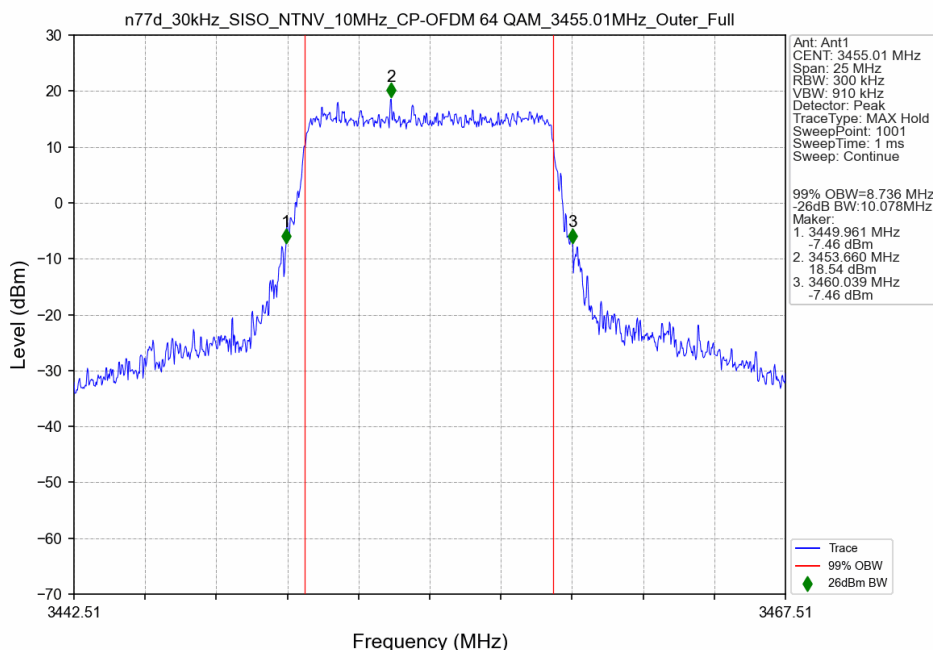
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n77d_30kHz_SISO_NTNV_10MHz_CP-OFDM 16 QAM_3544.98MHz_Outer_Full



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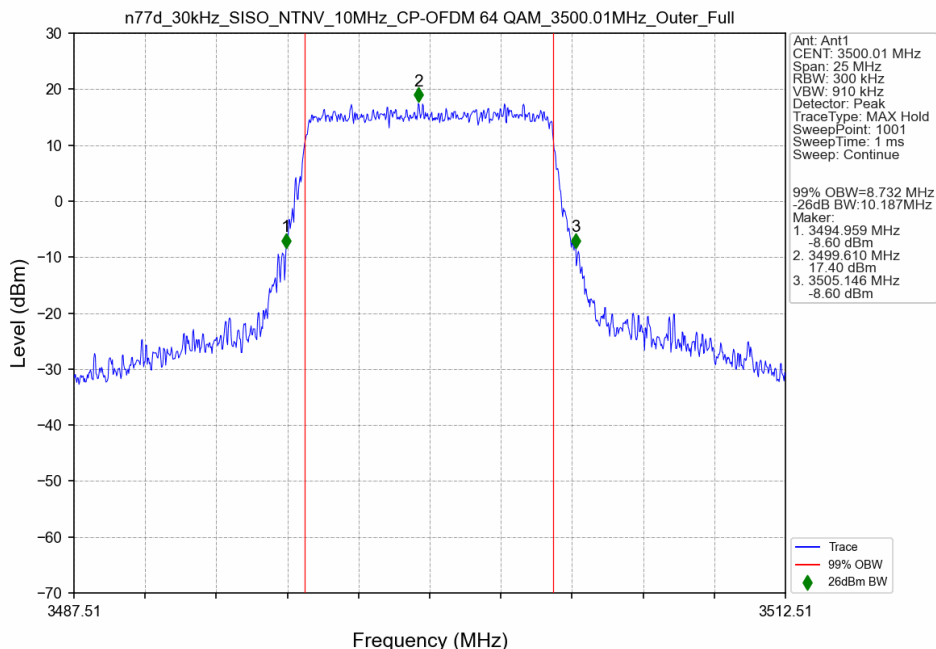


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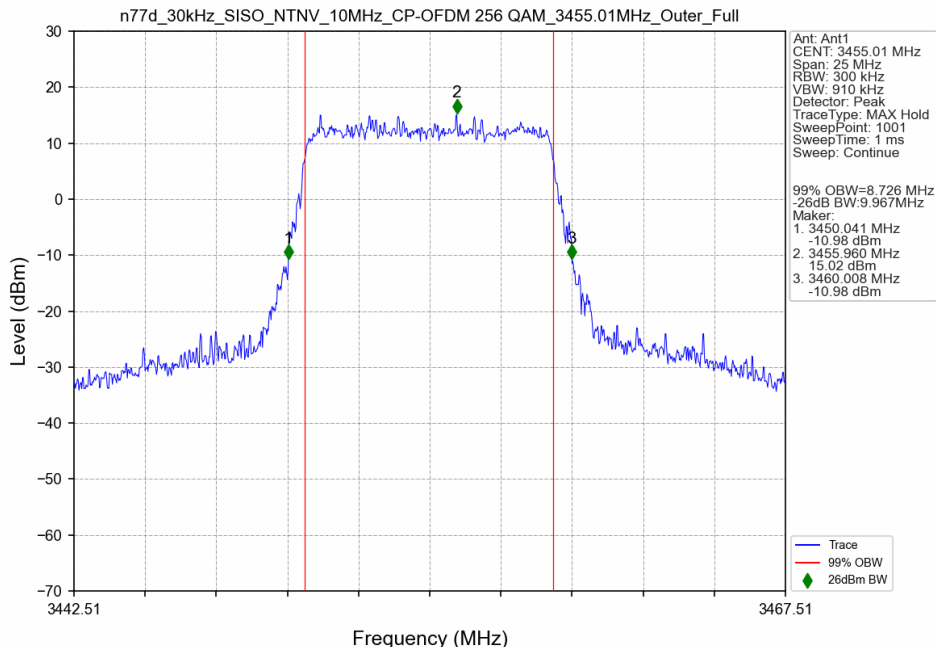


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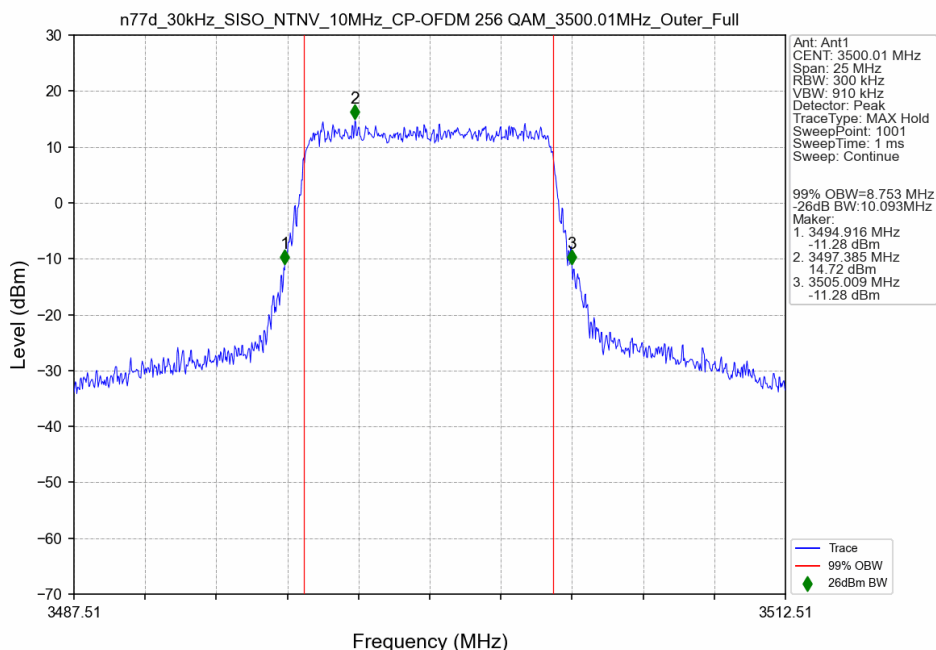
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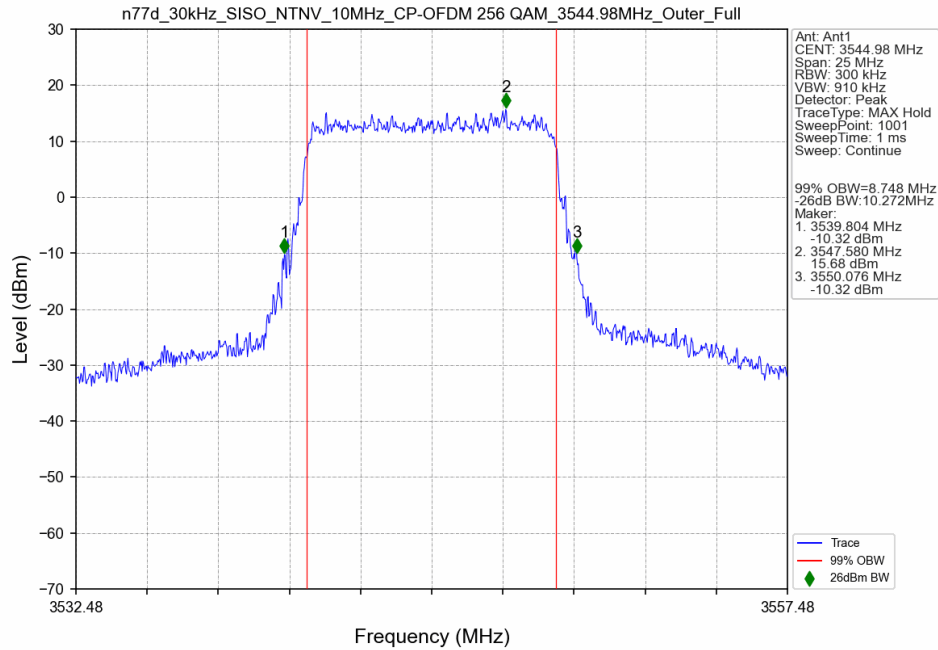


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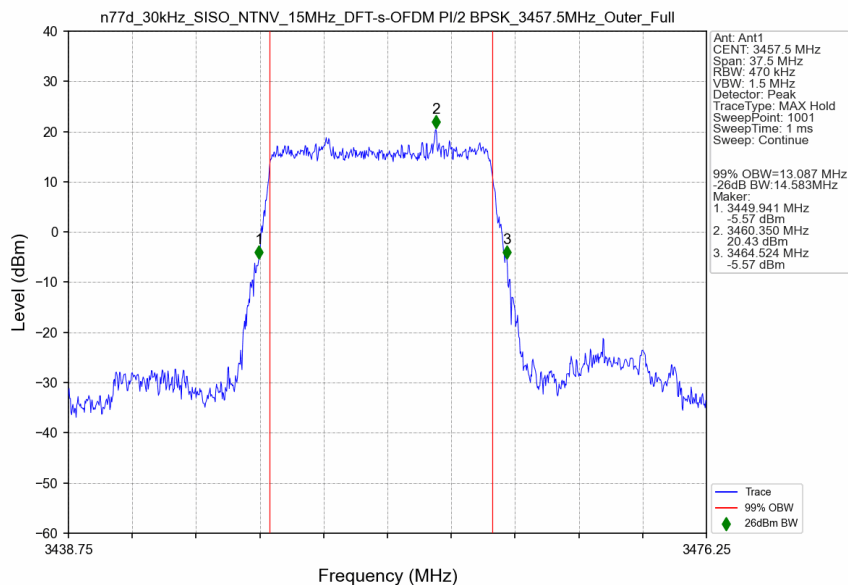
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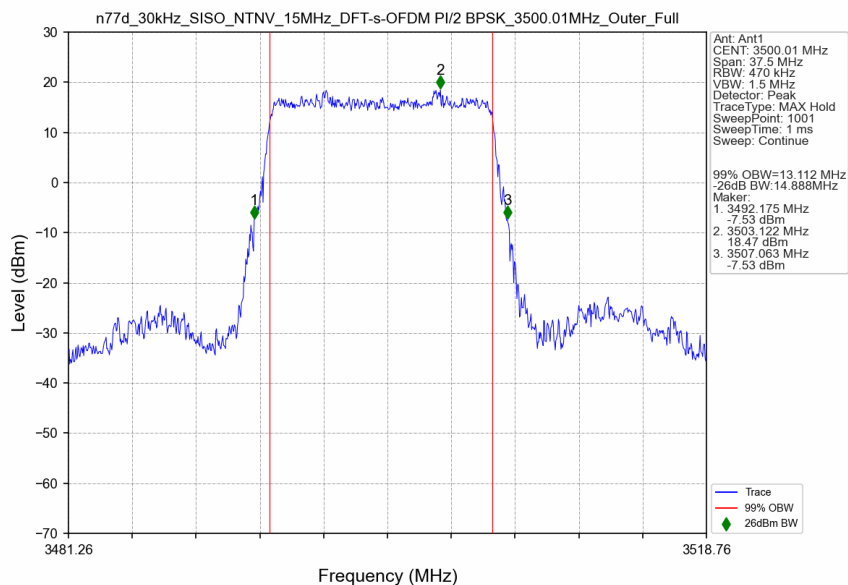
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1.2.2 30k_SISO_15MHz_NTNV

n77d_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_3457.5MHz_Outer_Full



n77d_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_3500.01MHz_Outer_Full



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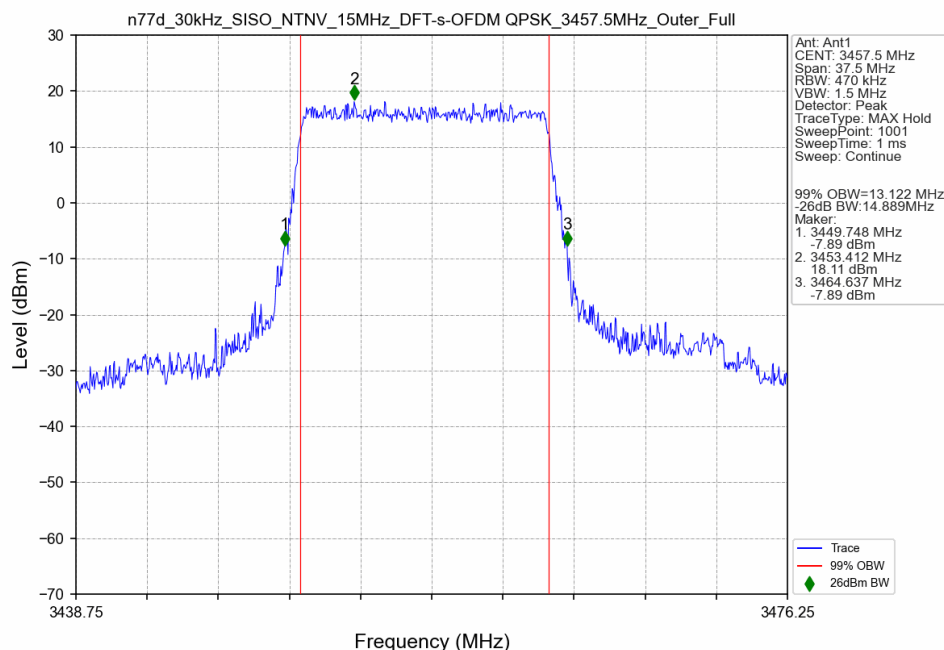
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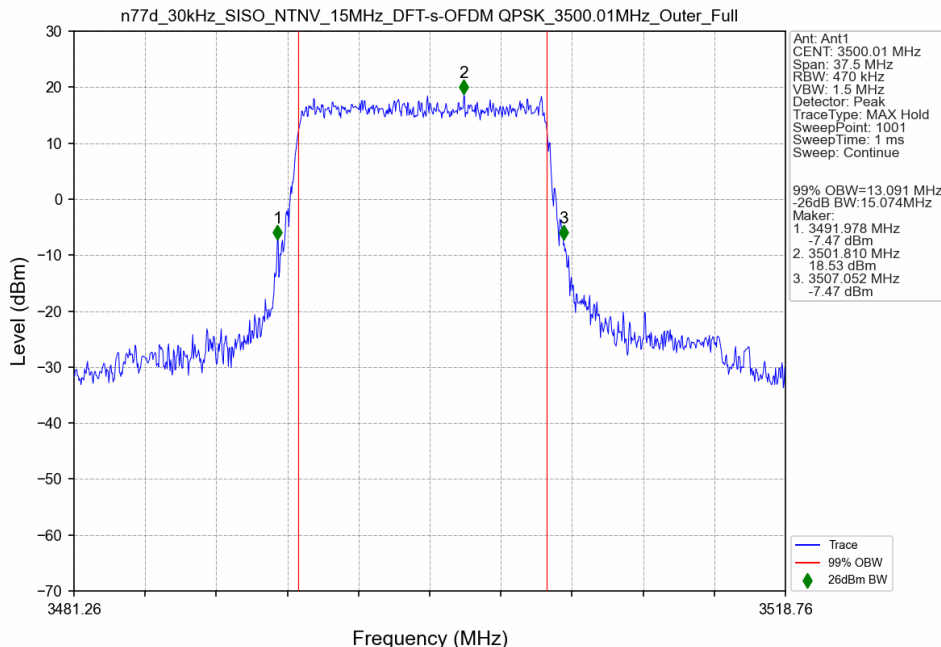


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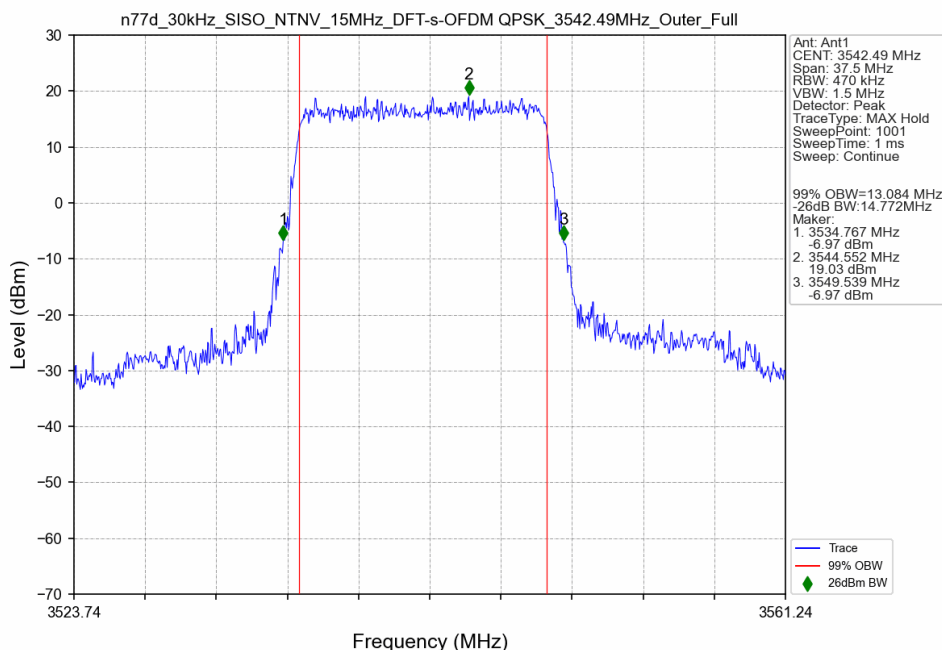
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n77d_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_3542.49MHz_Outer_Full



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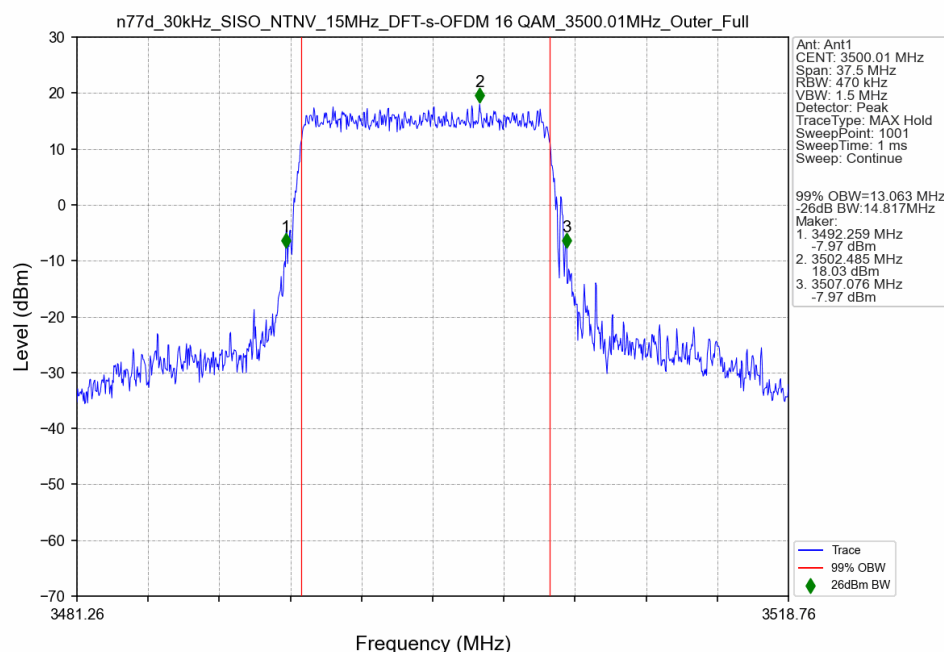
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n77d_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM 16 QAM_3457.5MHz_Outer_Full



n77d_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM 16 QAM_3500.01MHz_Outer_Full

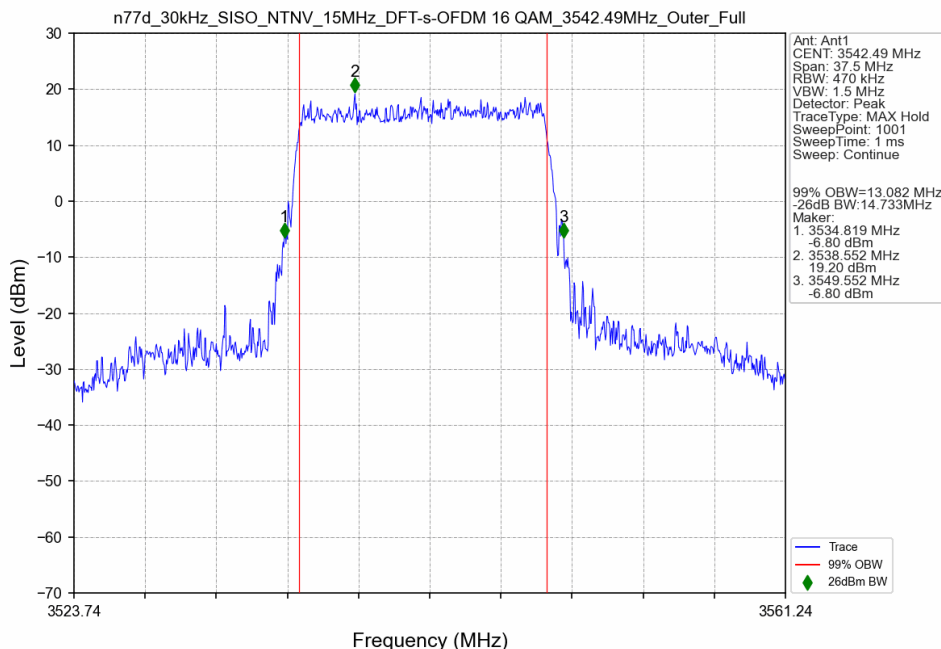


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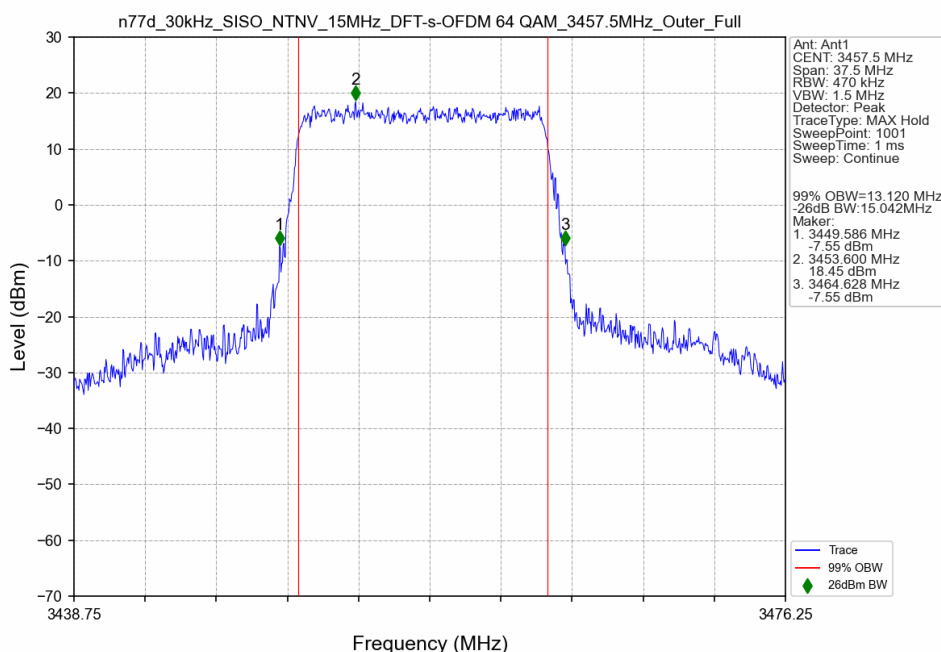
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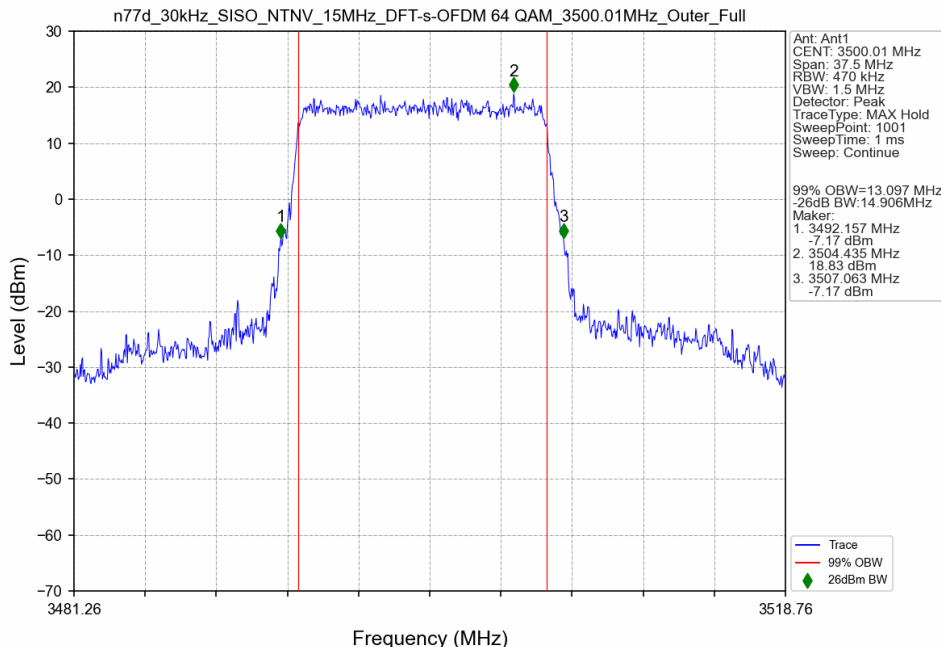


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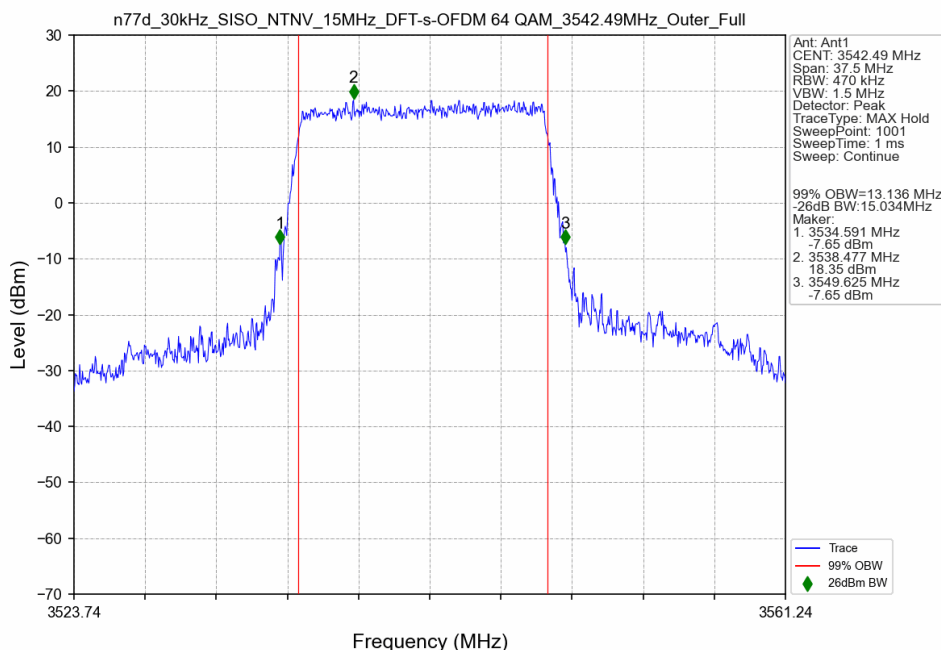
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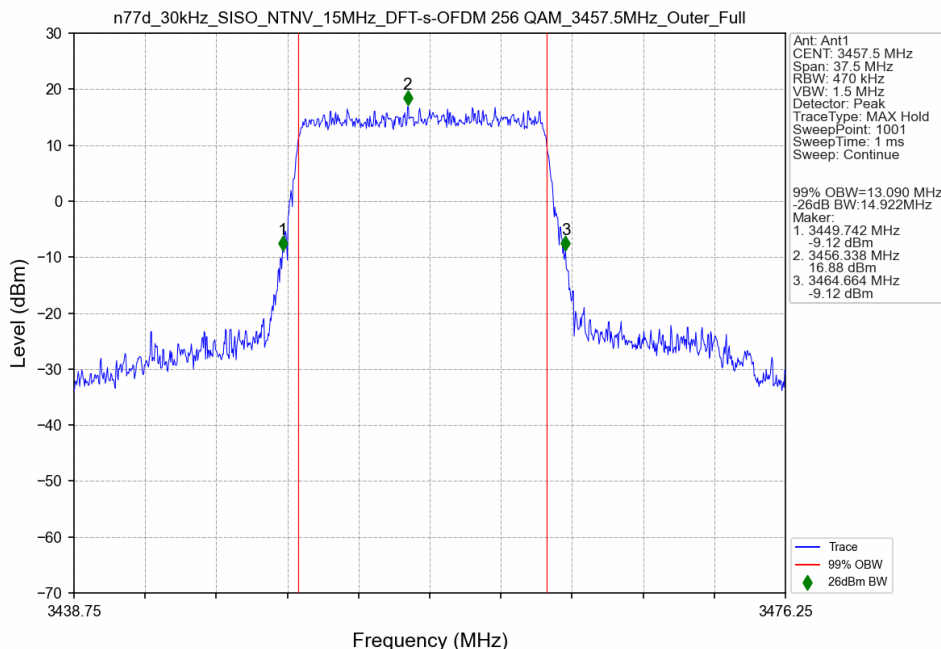


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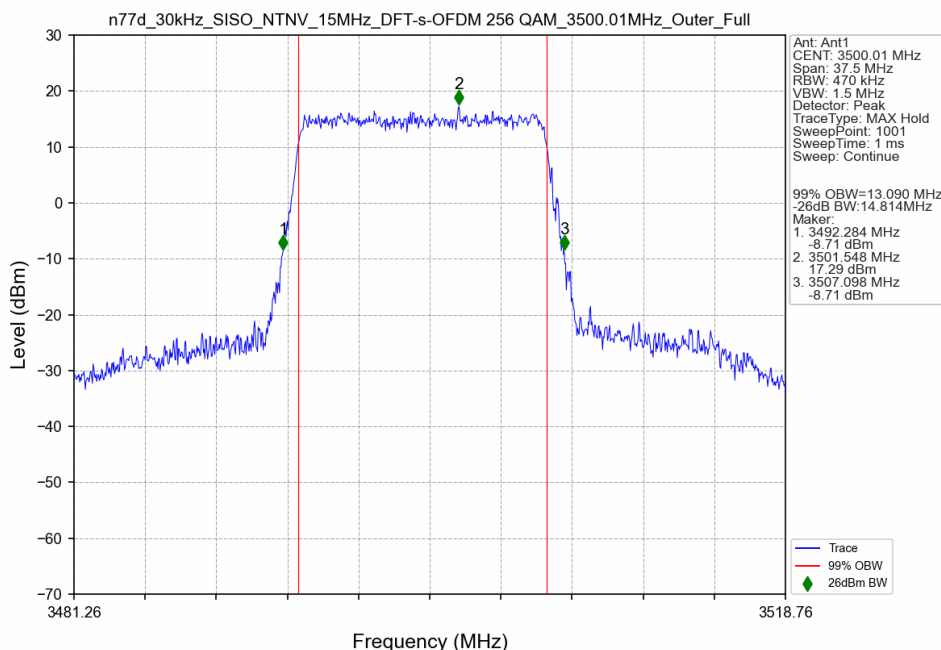
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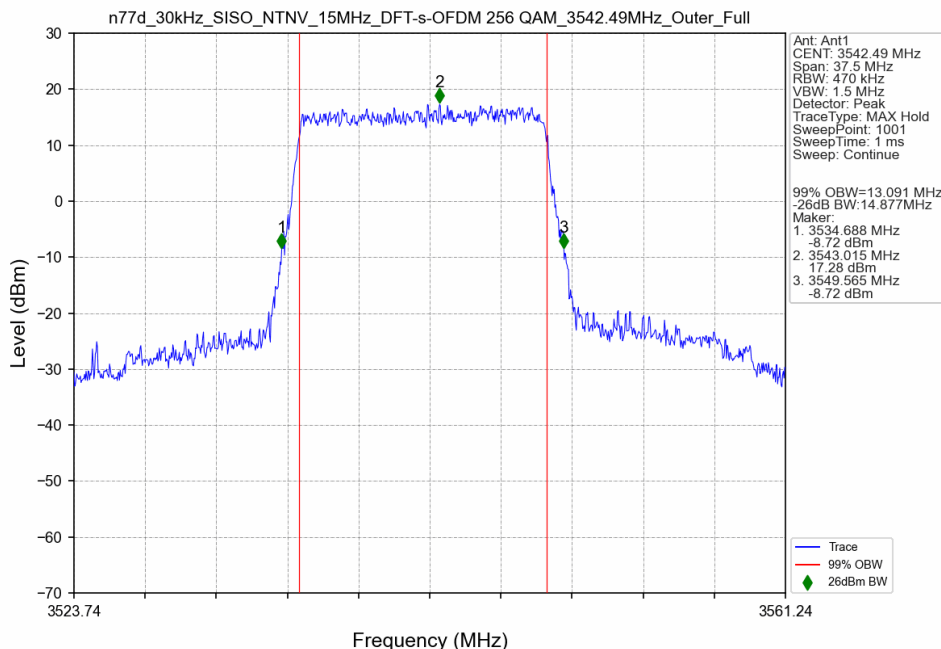


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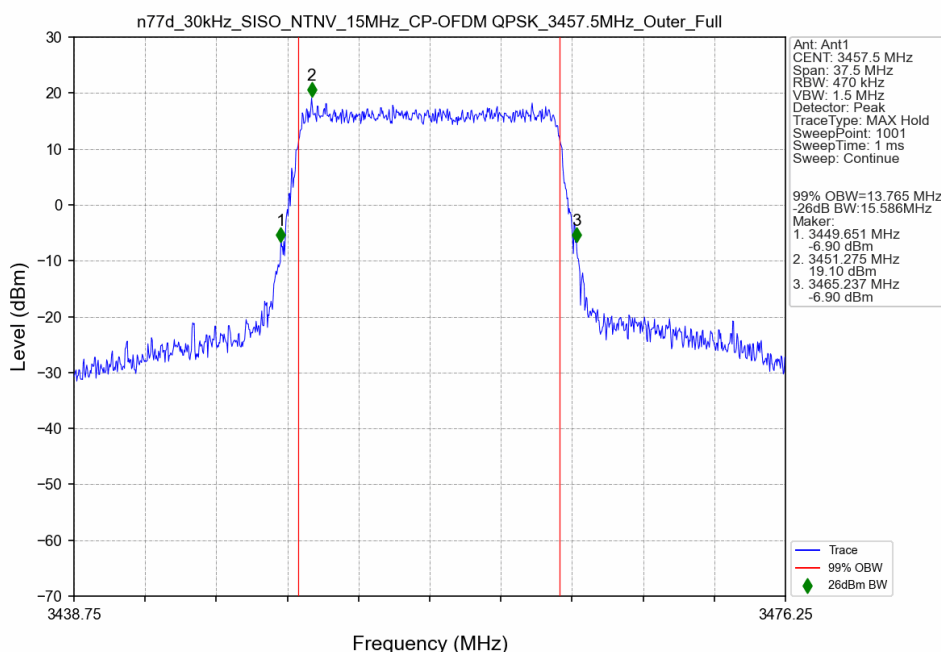
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n77d_30kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_3457.5MHz_Outer_Full

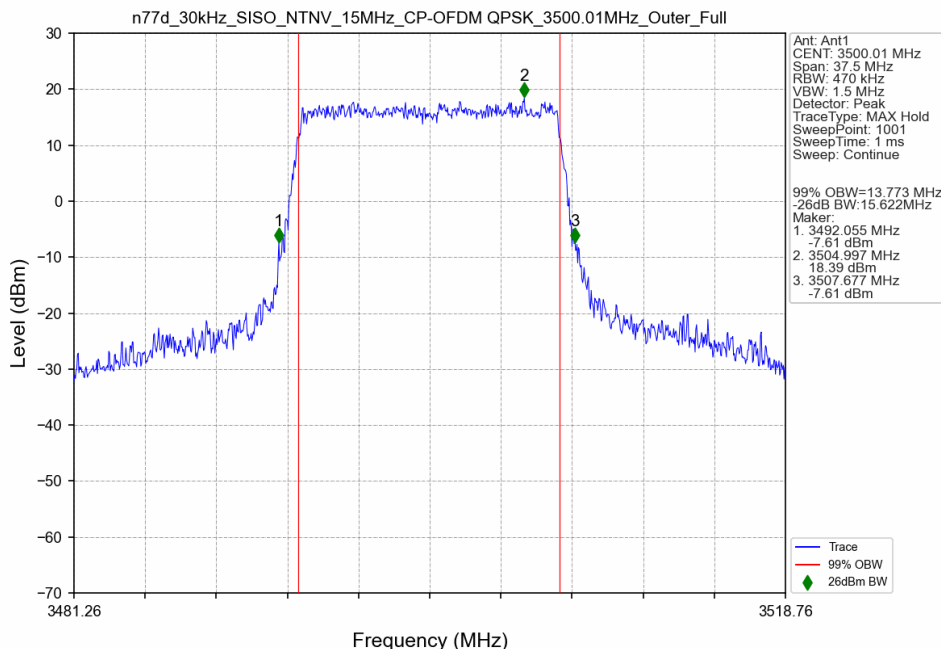


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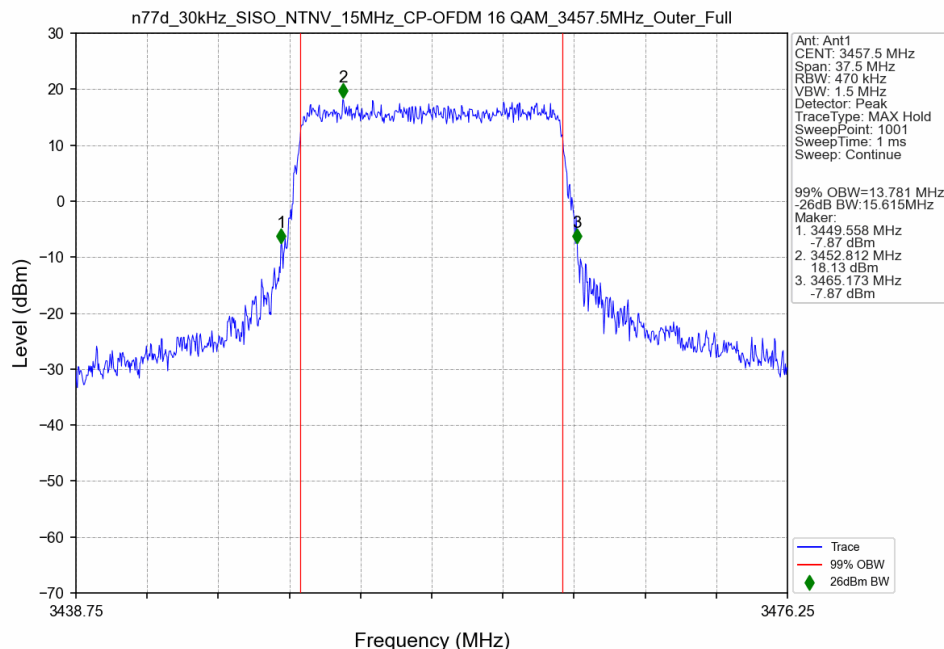


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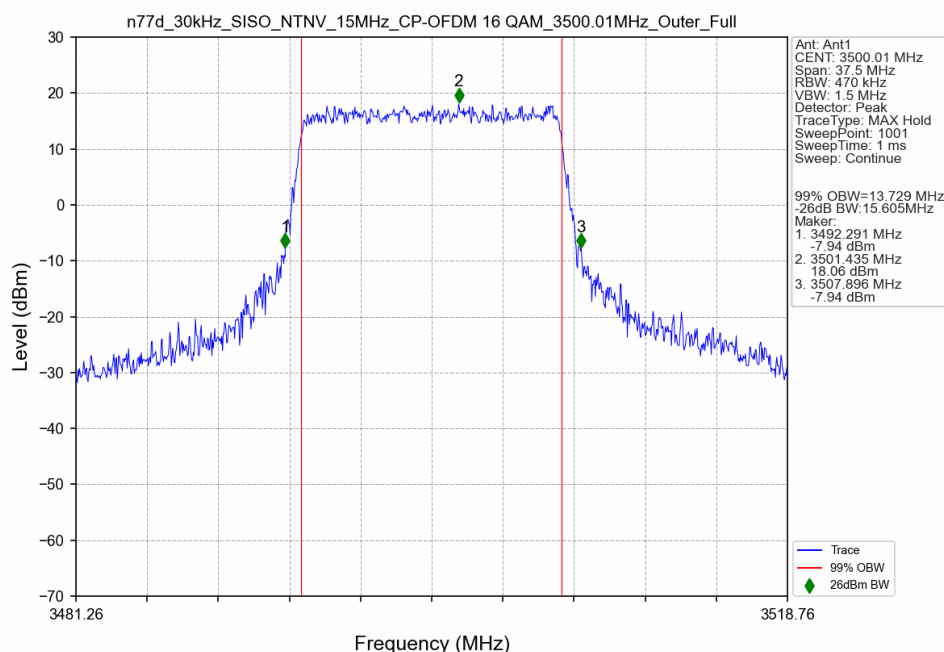
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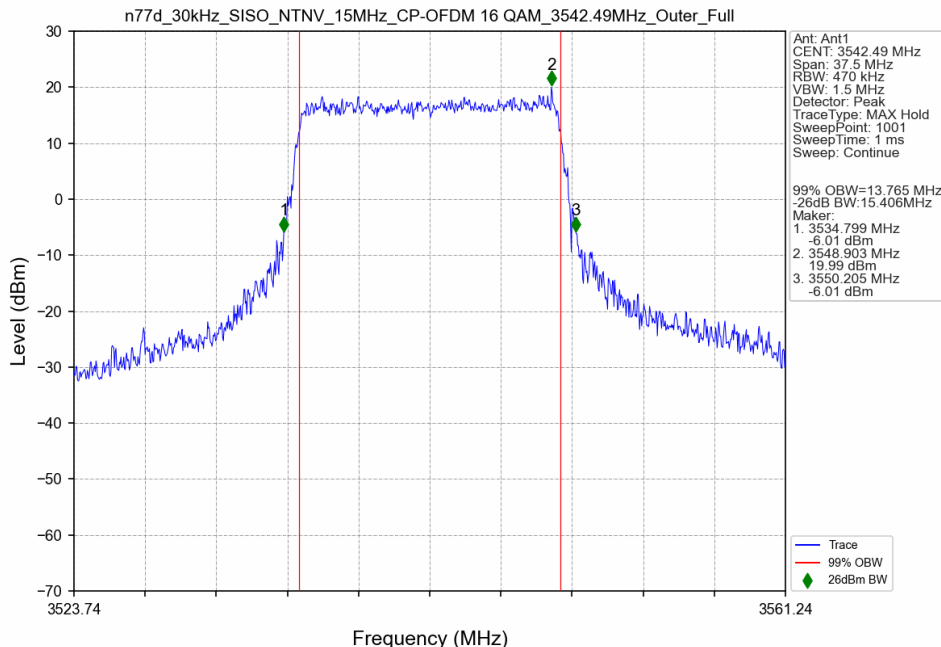


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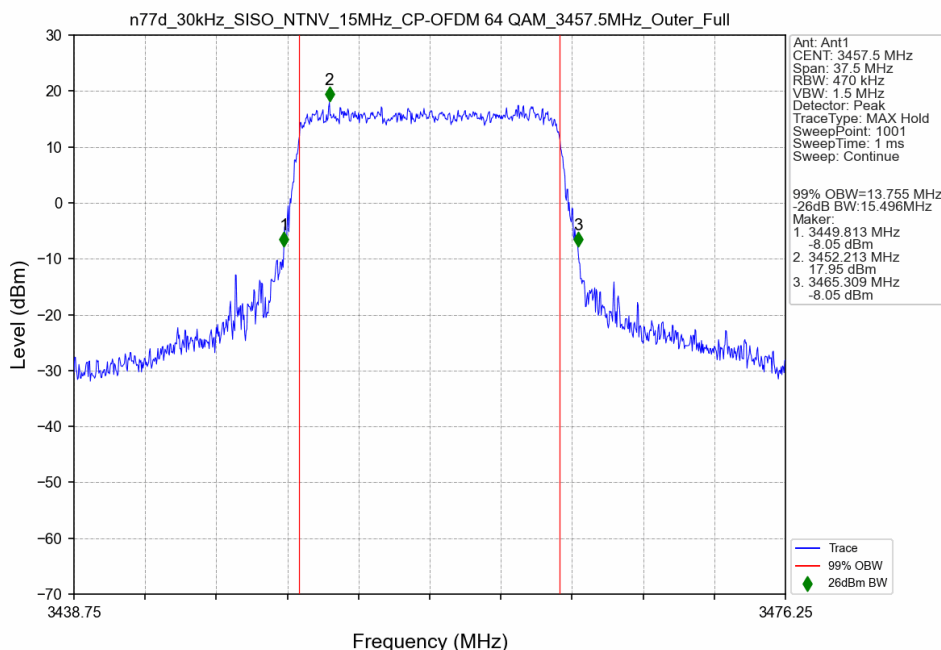
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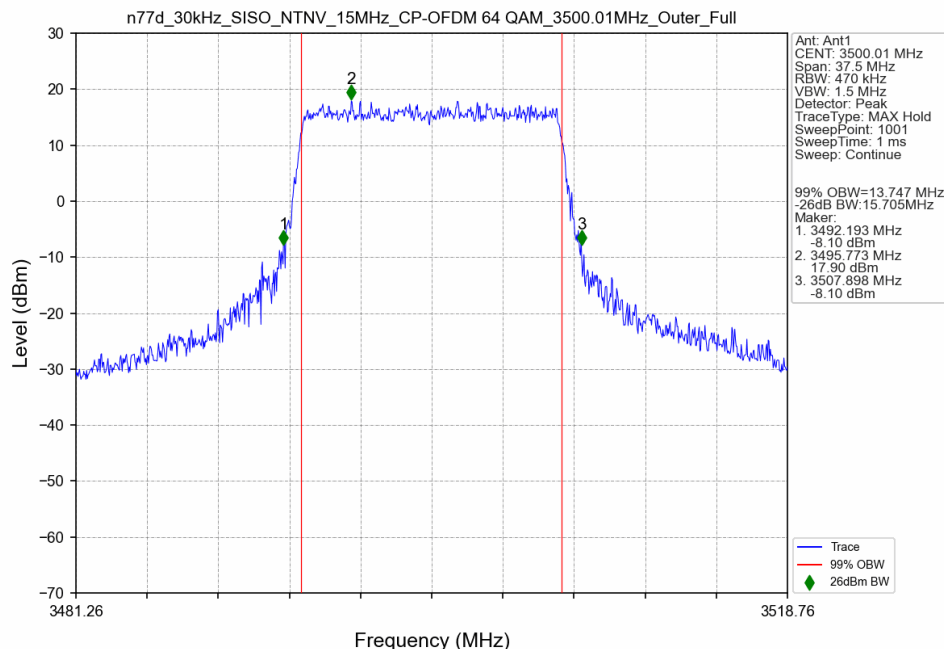


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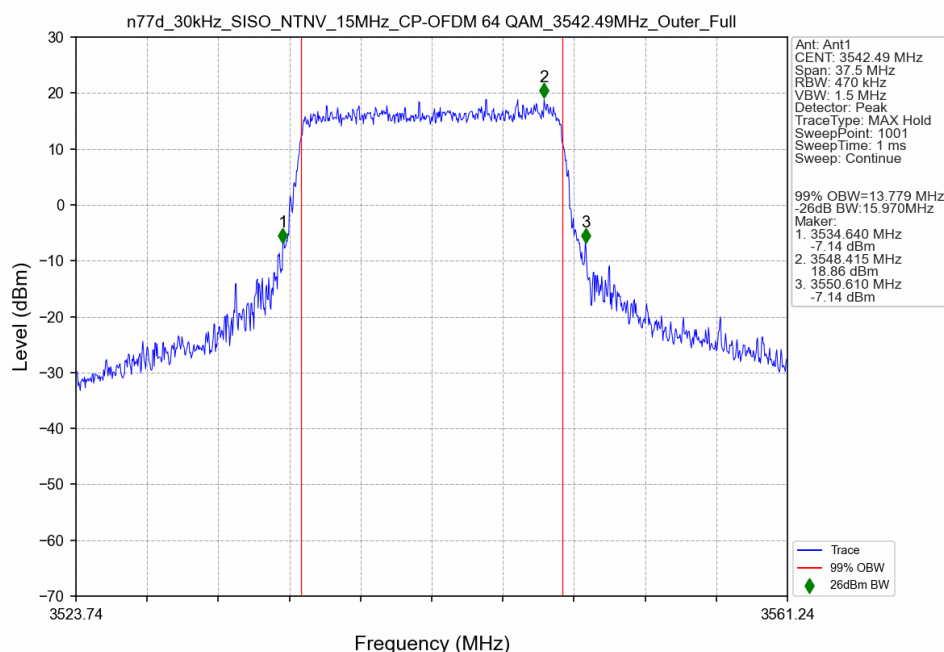
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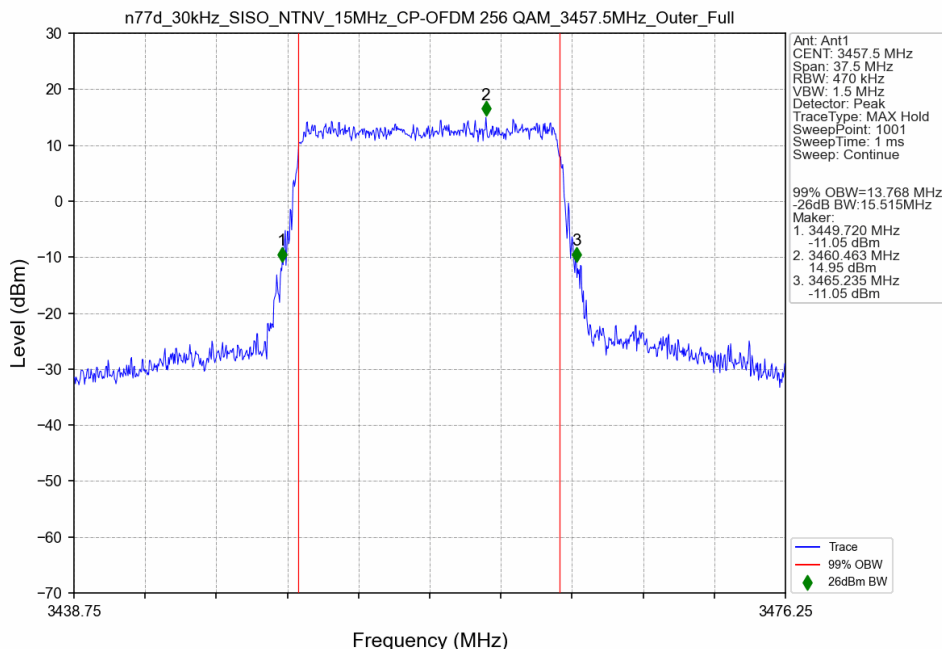


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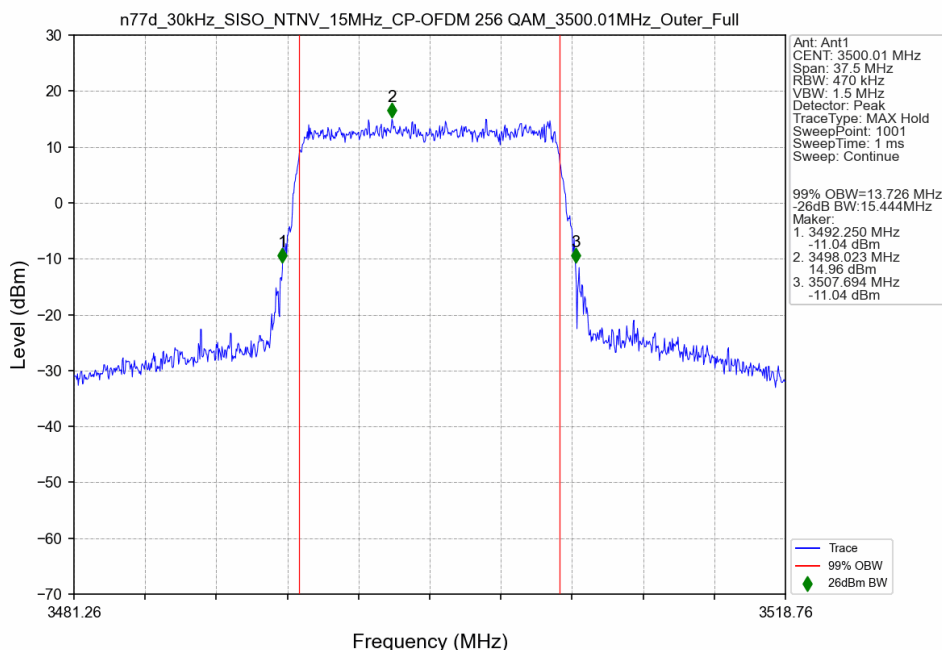
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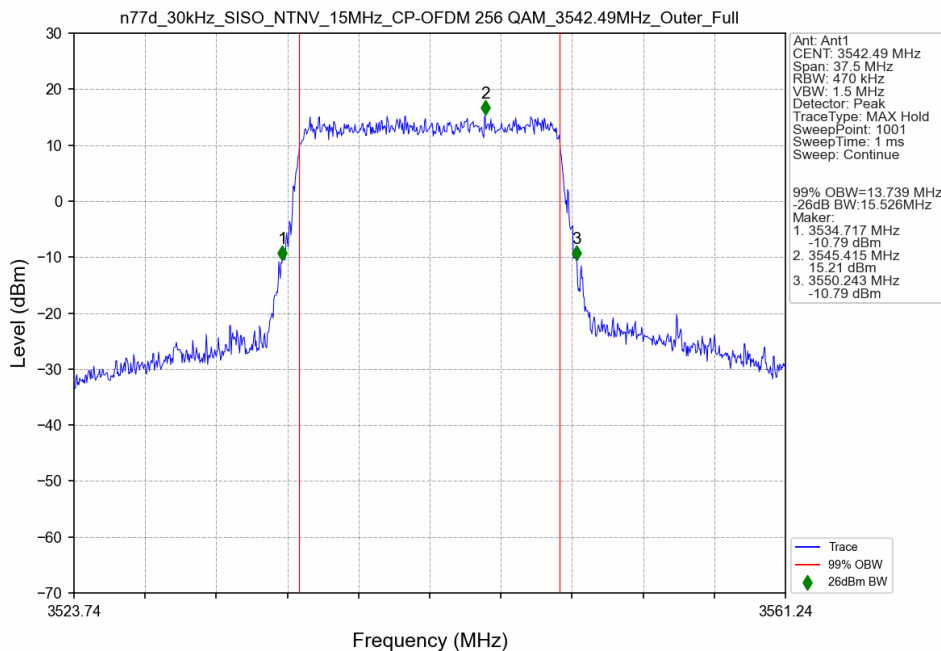


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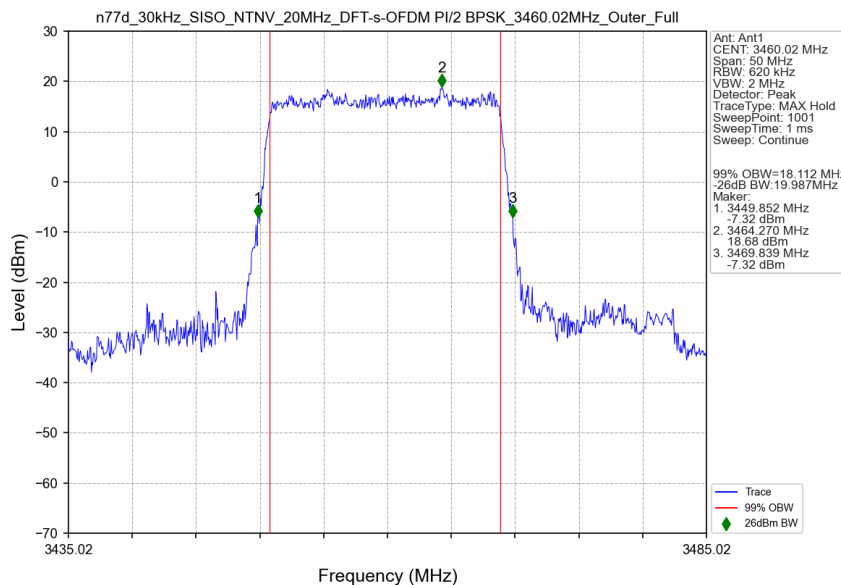
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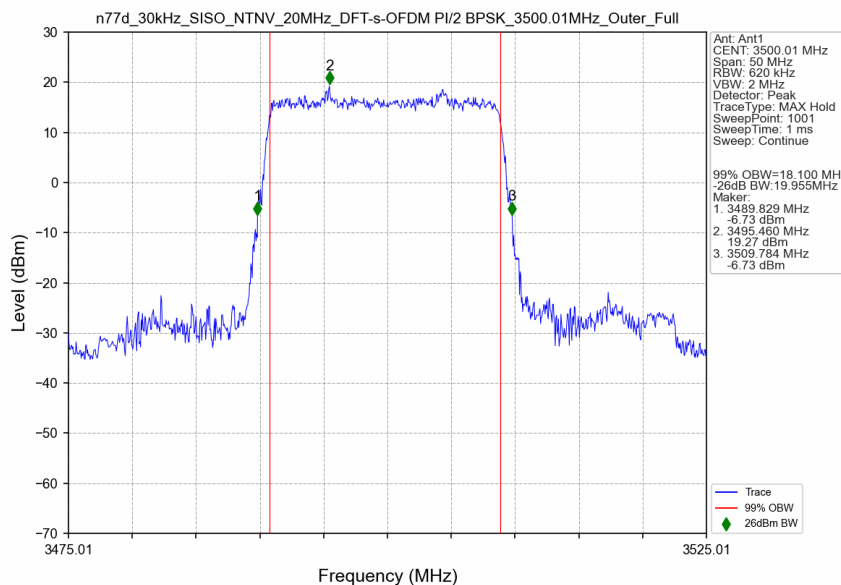
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3.2.3 30k_SISO_20MHz_NTNV

n77d_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_3460.02MHz_Outer_Full



n77d_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_3500.01MHz_Outer_Full

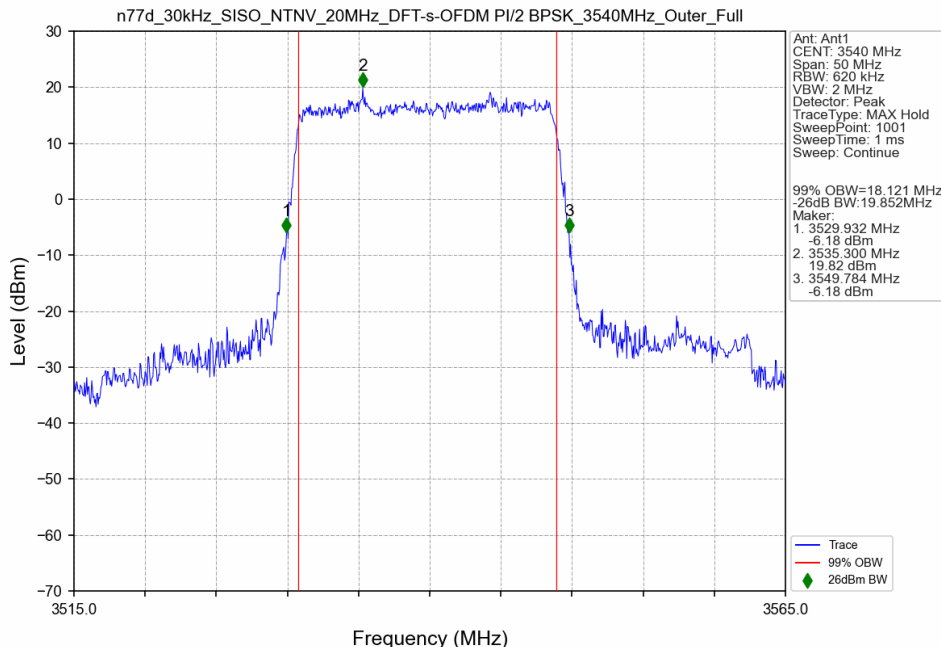


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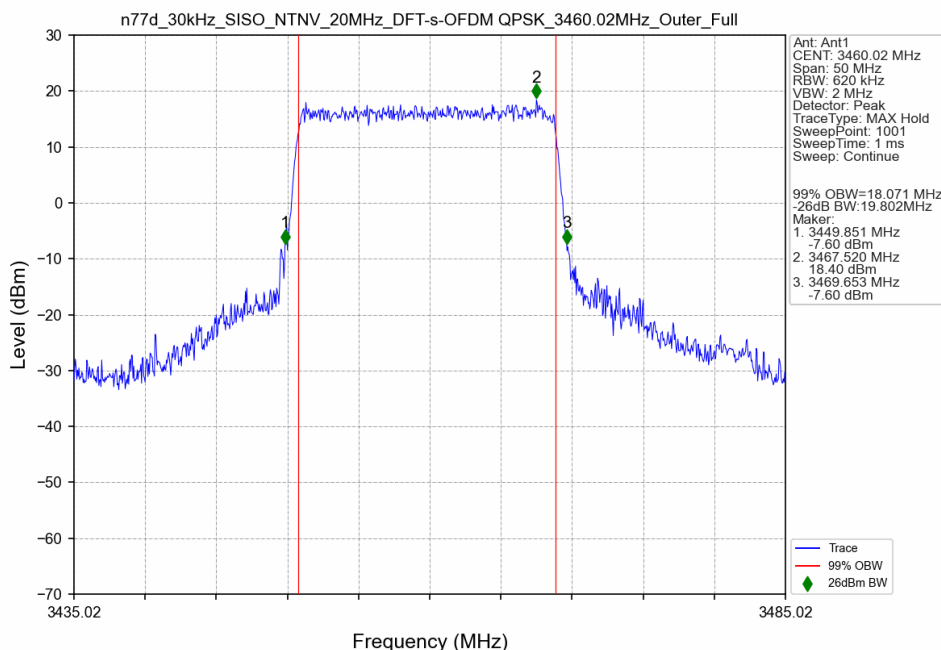
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n77d_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_3460.02MHz_Outer_Full

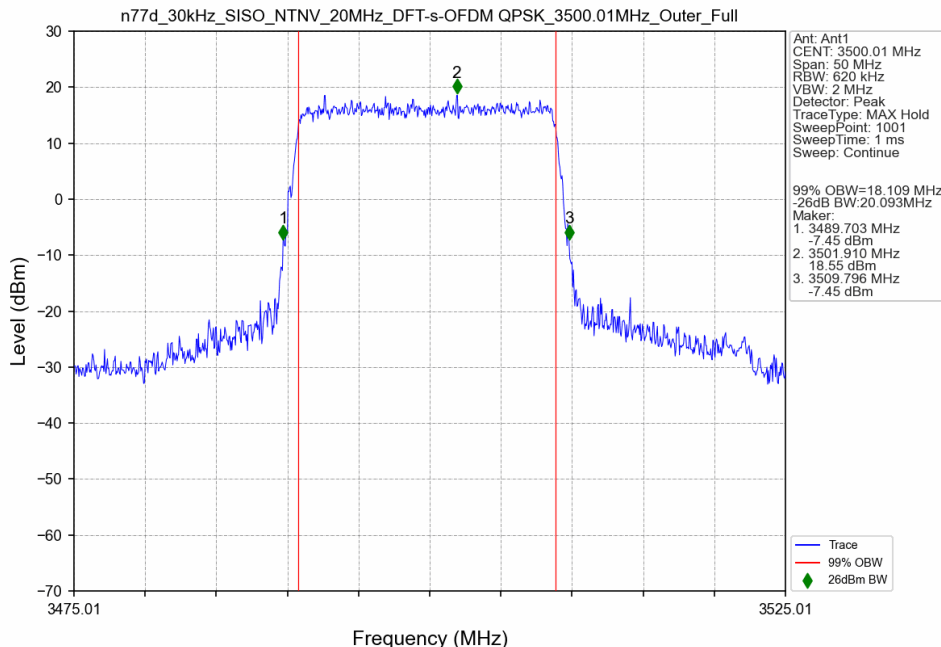


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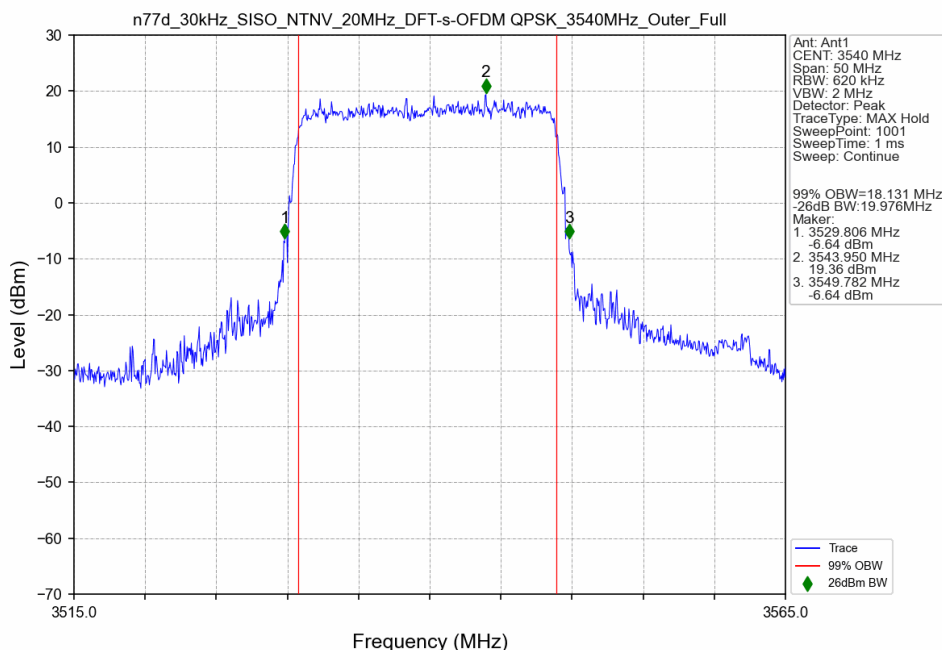
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n77d_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_3500.01MHz_Outer_Full



n77d_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_3540MHz_Outer_Full



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