

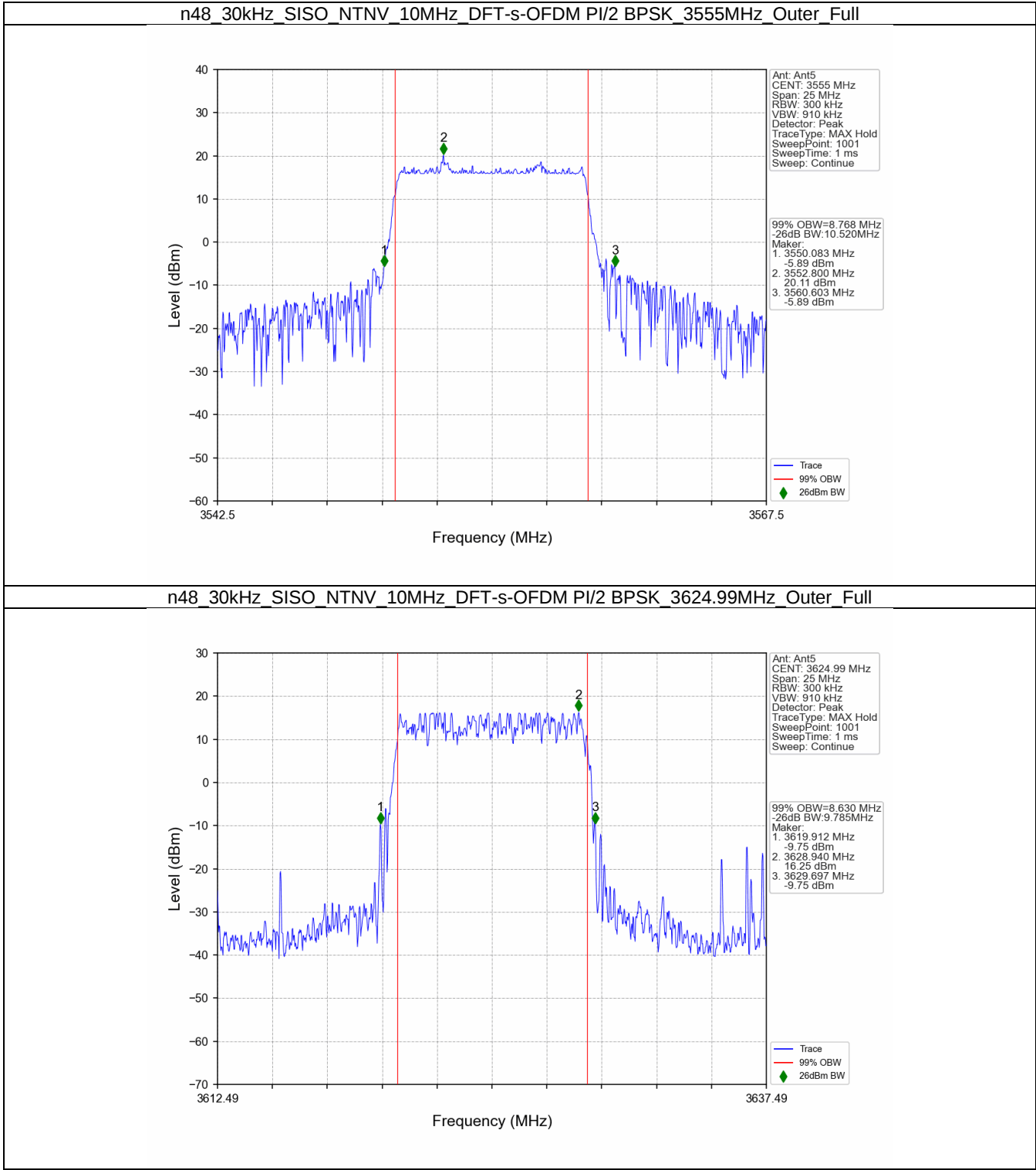
1. 99% & 26dB Bandwidth

1.1 30k_SISO_10MHz_NTNV

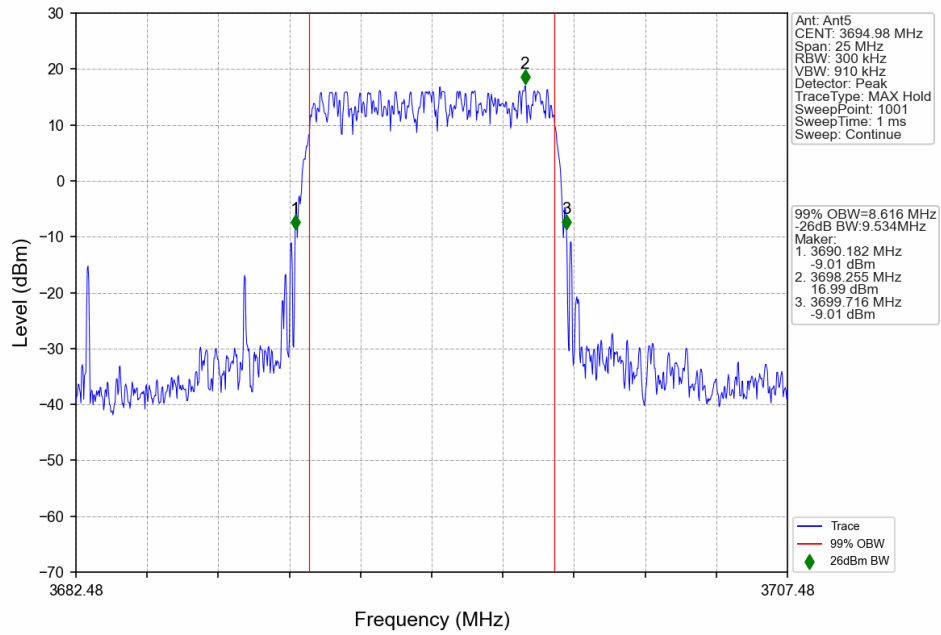
1.1.1 Test Result

5G NR n48 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	3555	Outer_Full	8.77	10.52	/	Pass
	3624.99	Outer_Full	8.63	9.79	/	Pass
	3694.98	Outer_Full	8.62	9.53	/	Pass
DFT-s-OFDM QPSK	3555	Outer_Full	8.75	11.04	/	Pass
	3624.99	Outer_Full	8.59	9.42	/	Pass
	3694.98	Outer_Full	8.70	9.54	/	Pass
DFT-s-OFDM 64 QAM	3555	Outer_Full	8.76	12.43	/	Pass
	3624.99	Outer_Full	8.59	9.51	/	Pass
	3694.98	Outer_Full	8.68	9.75	/	Pass
DFT-s-OFDM 256 QAM	3555	Outer_Full	8.71	10.08	/	Pass
	3624.99	Outer_Full	8.65	9.57	/	Pass
	3694.98	Outer_Full	8.64	10.74	/	Pass
CP-OFDM QPSK	3555	Outer_Full	8.75	14.26	/	Pass
	3624.99	Outer_Full	8.69	9.68	/	Pass
	3694.98	Outer_Full	8.72	11.15	/	Pass
CP-OFDM 64 QAM	3555	Outer_Full	8.76	11.84	/	Pass
	3624.99	Outer_Full	8.72	9.43	/	Pass
	3694.98	Outer_Full	8.67	9.50	/	Pass
CP-OFDM 256 QAM	3555	Outer_Full	8.75	11.45	/	Pass
	3624.99	Outer_Full	8.68	10.02	/	Pass
	3694.98	Outer_Full	8.63	9.51	/	Pass

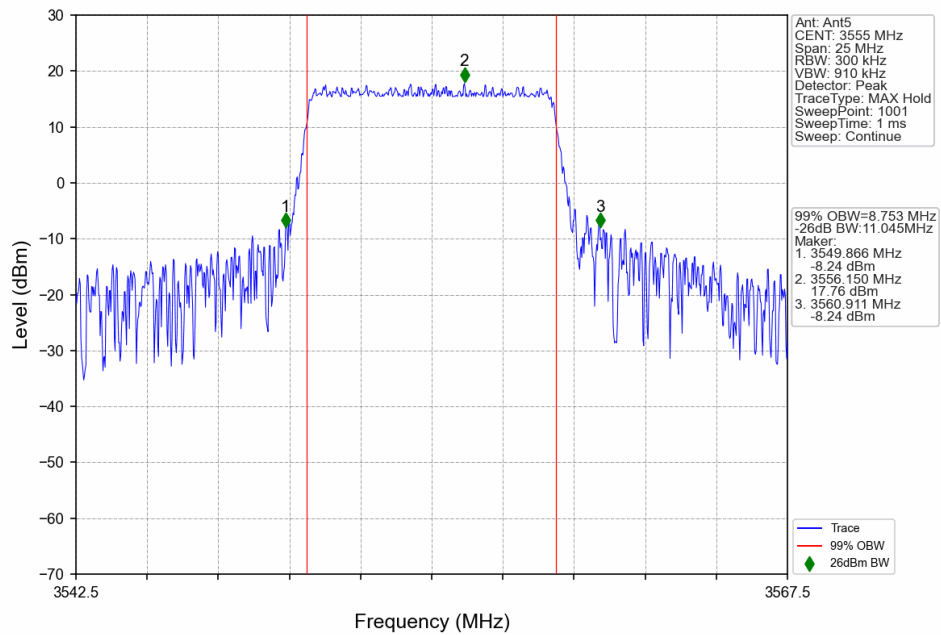
1.1.2 Test Graph



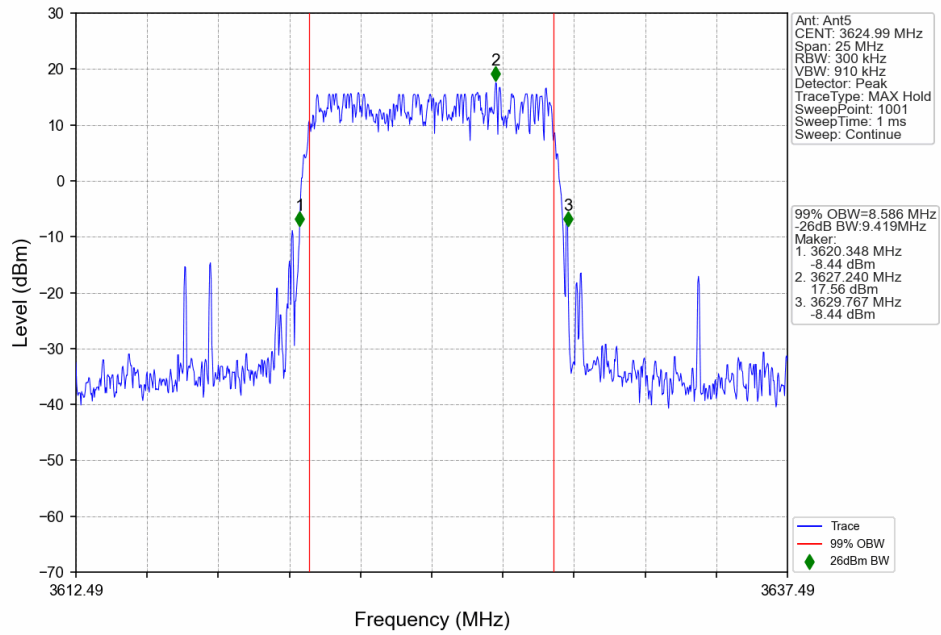
n48 30kHz SISO NTN 10MHz DFT-s-OFDM PI/2 BPSK 3694.98MHz Outer Full



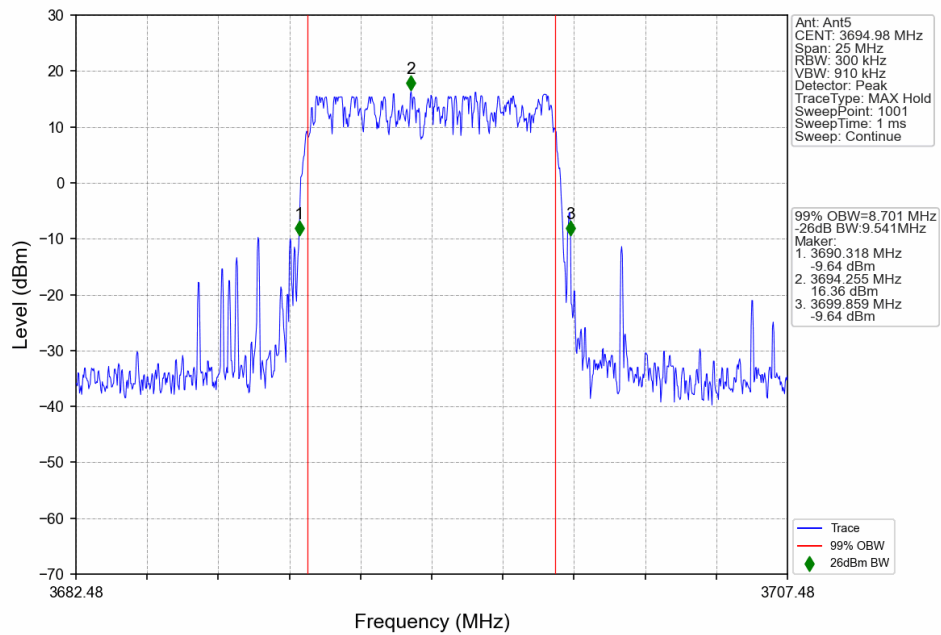
n48 30kHz SISO NTN 10MHz DFT-s-OFDM QPSK 3555MHz Outer Full



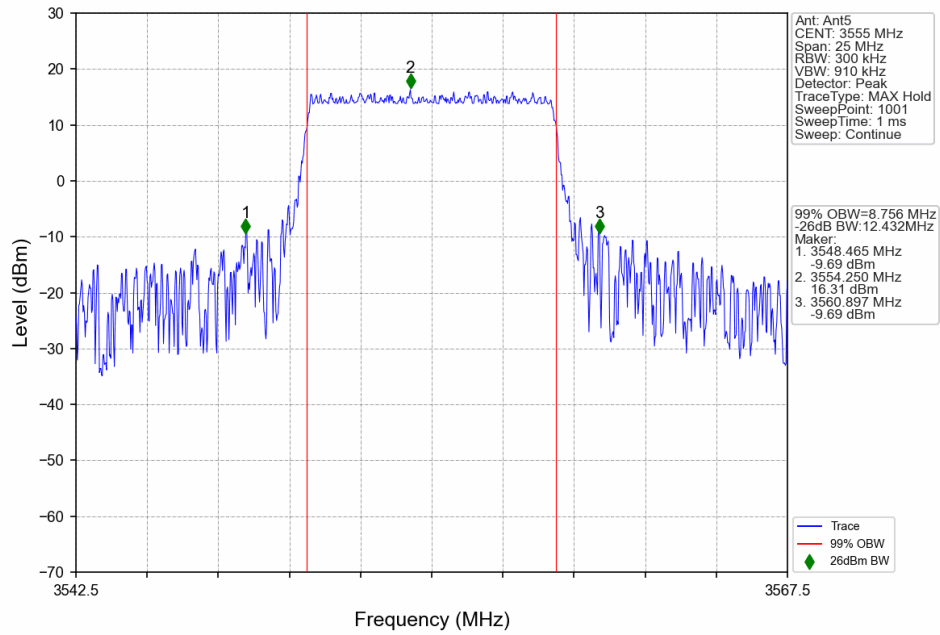
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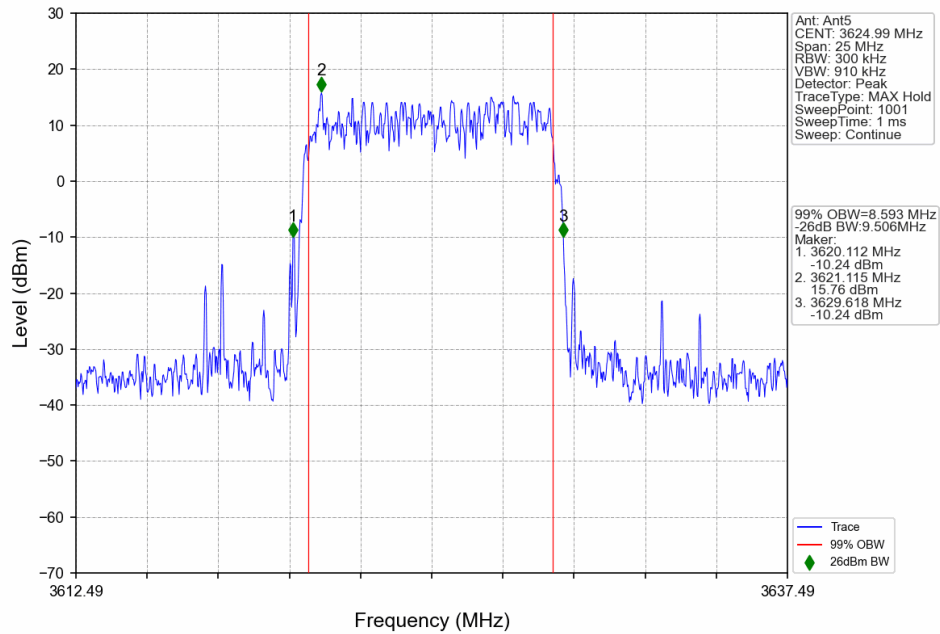
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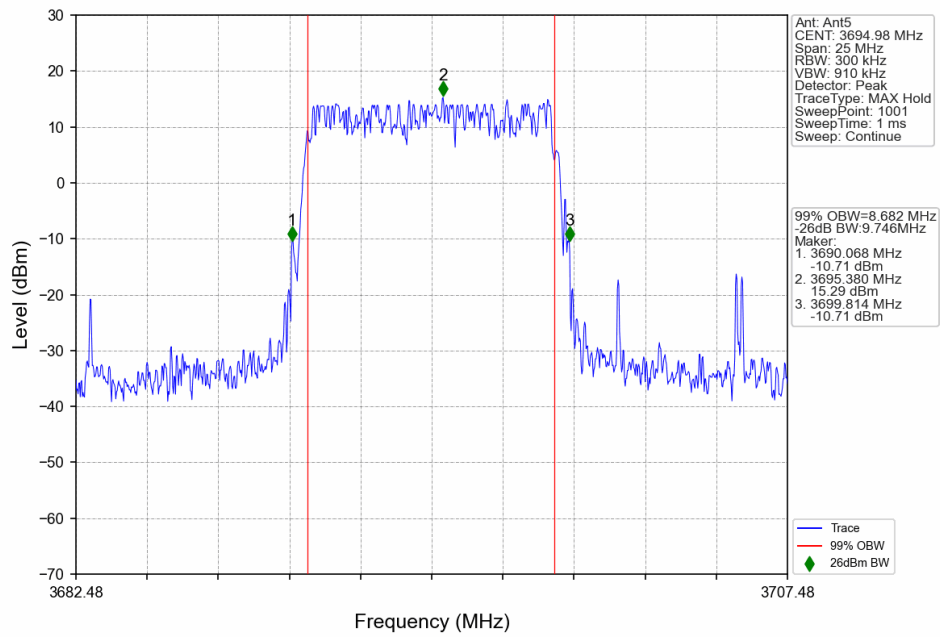
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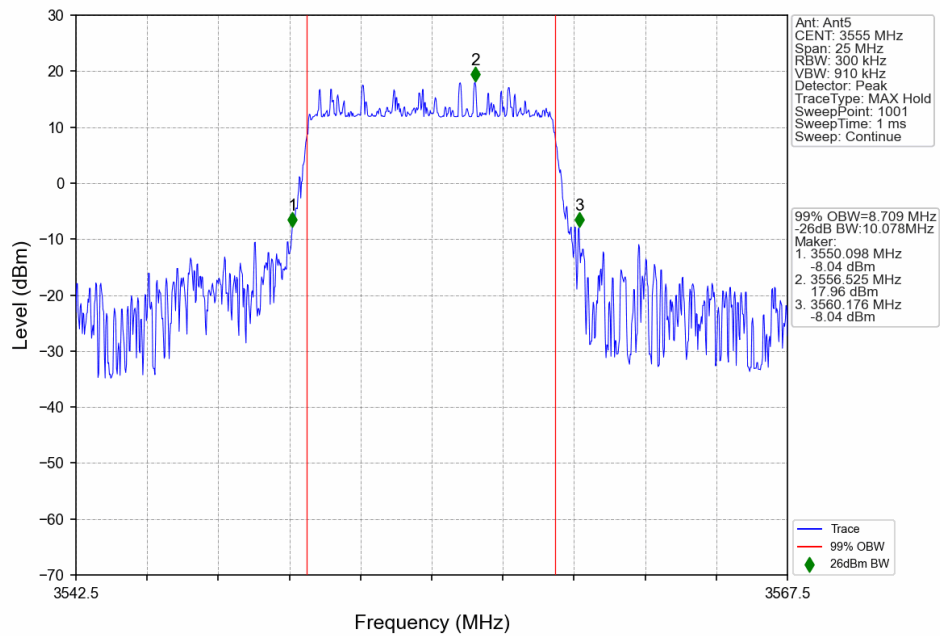
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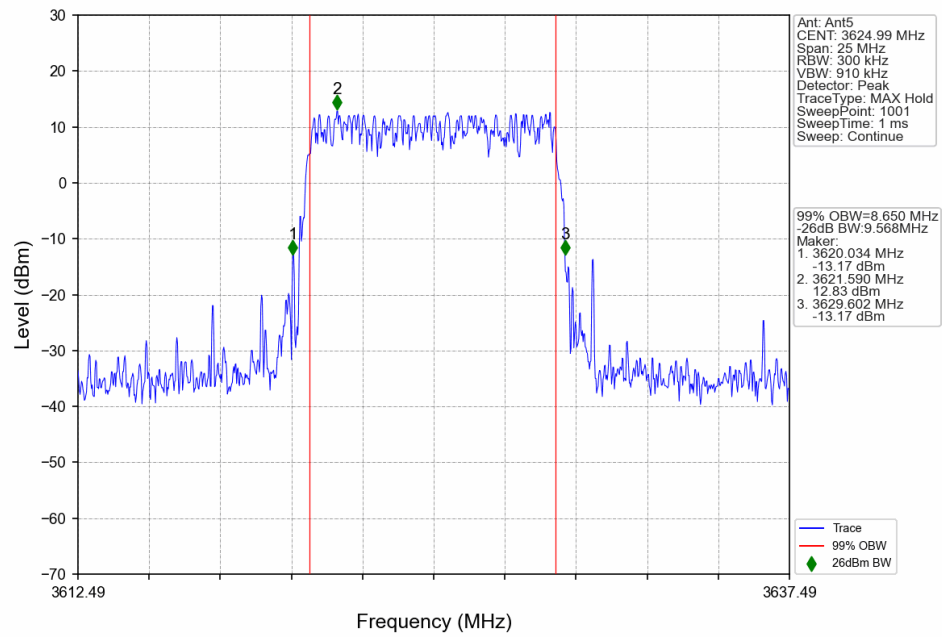
n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_64_QAM_3694.98MHz_Outer_Full



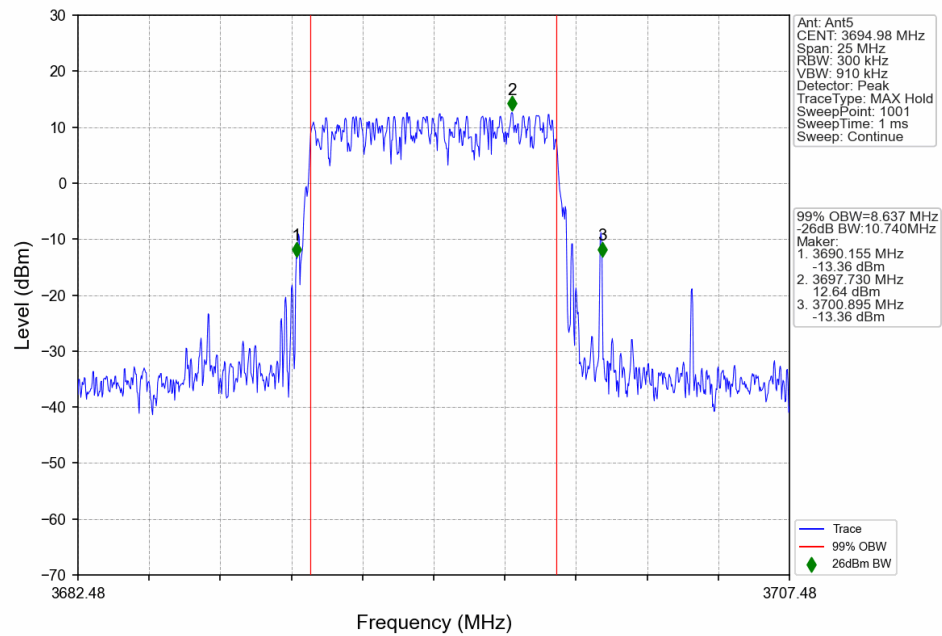
n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_256_QAM_3555MHz_Outer_Full



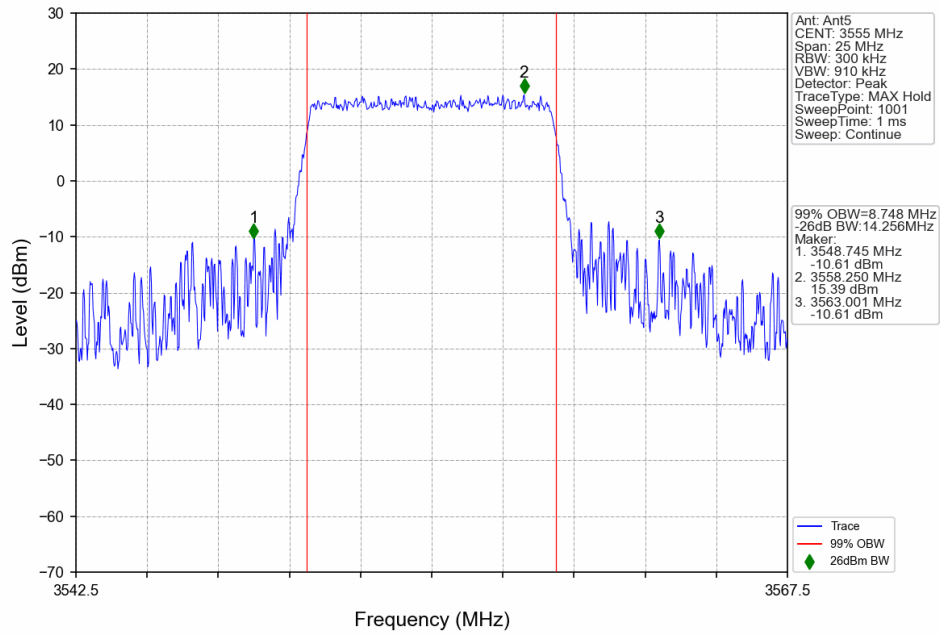
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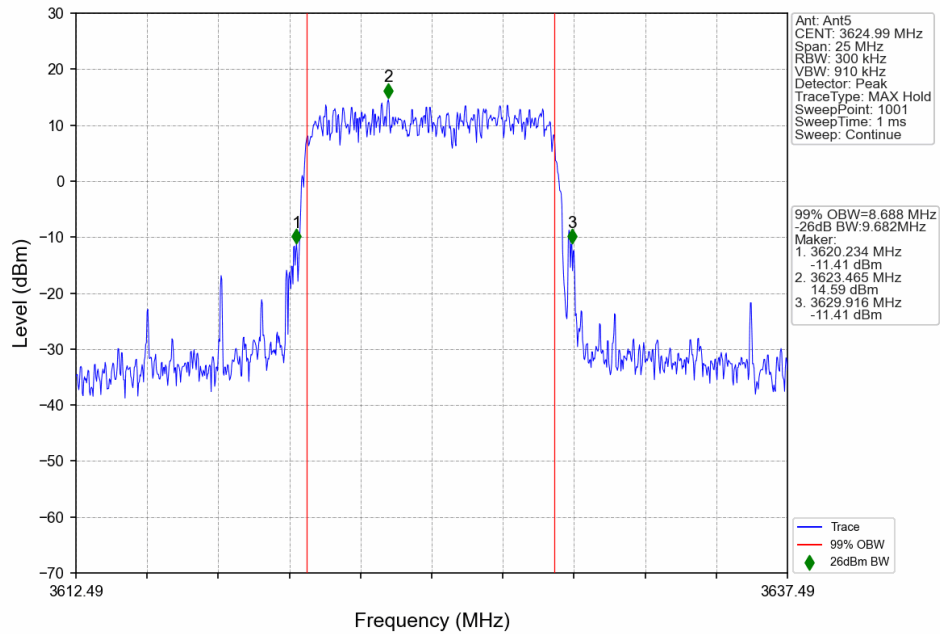
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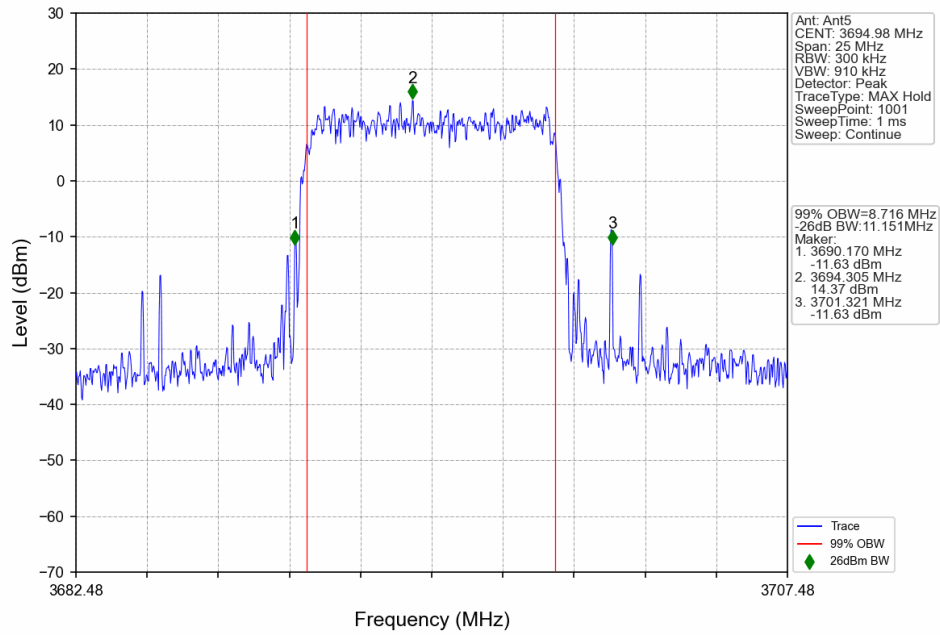
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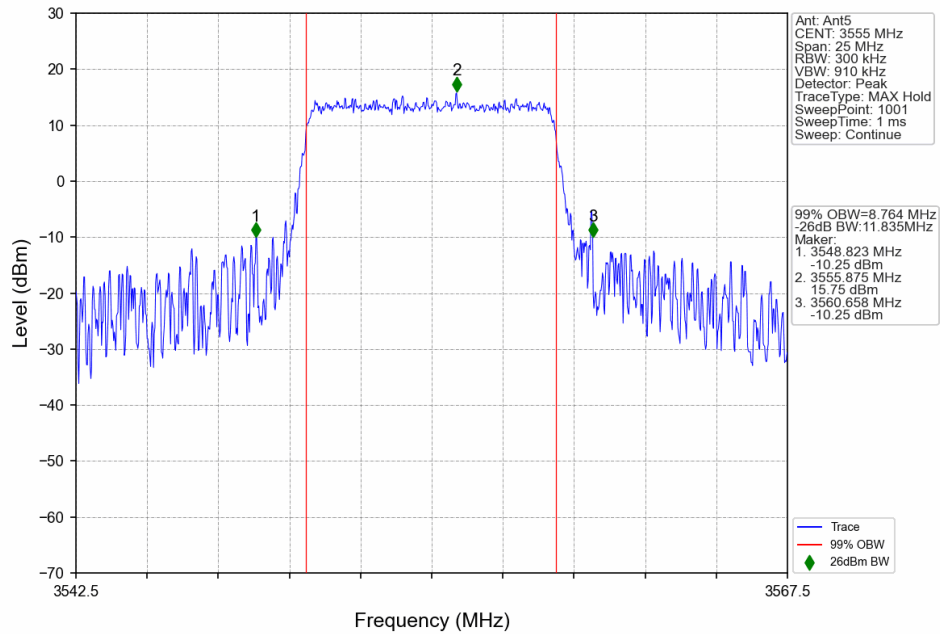
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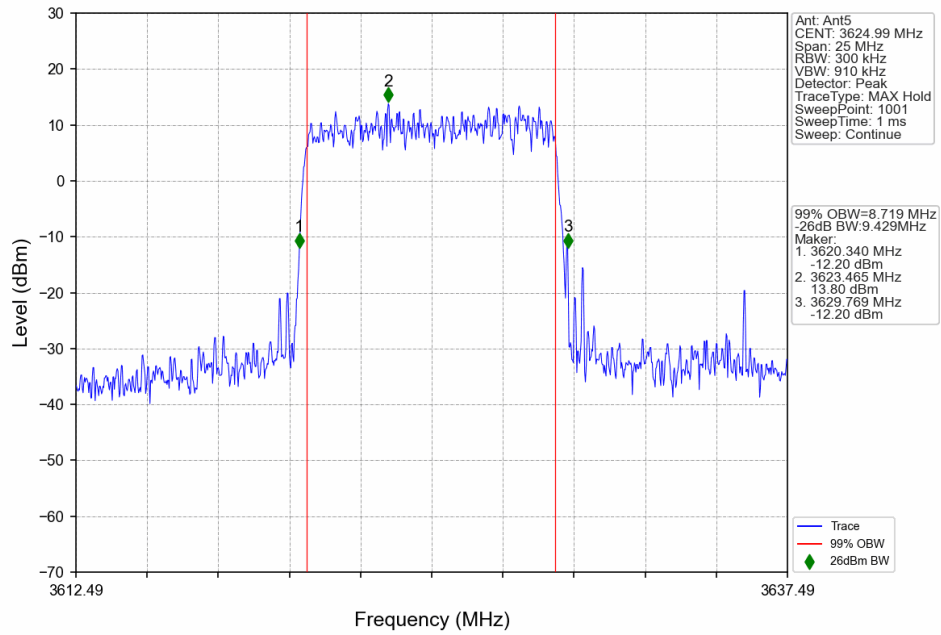
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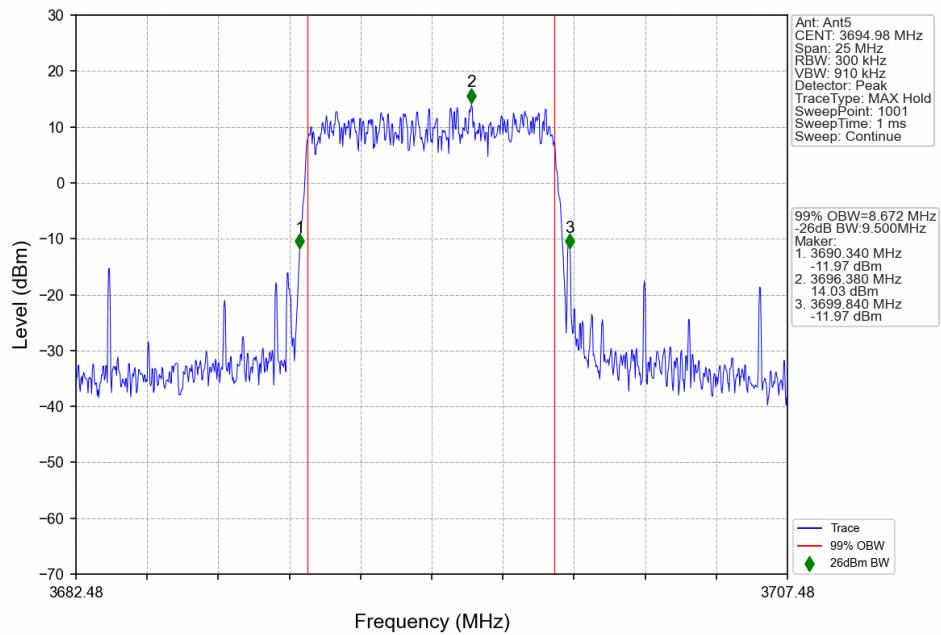
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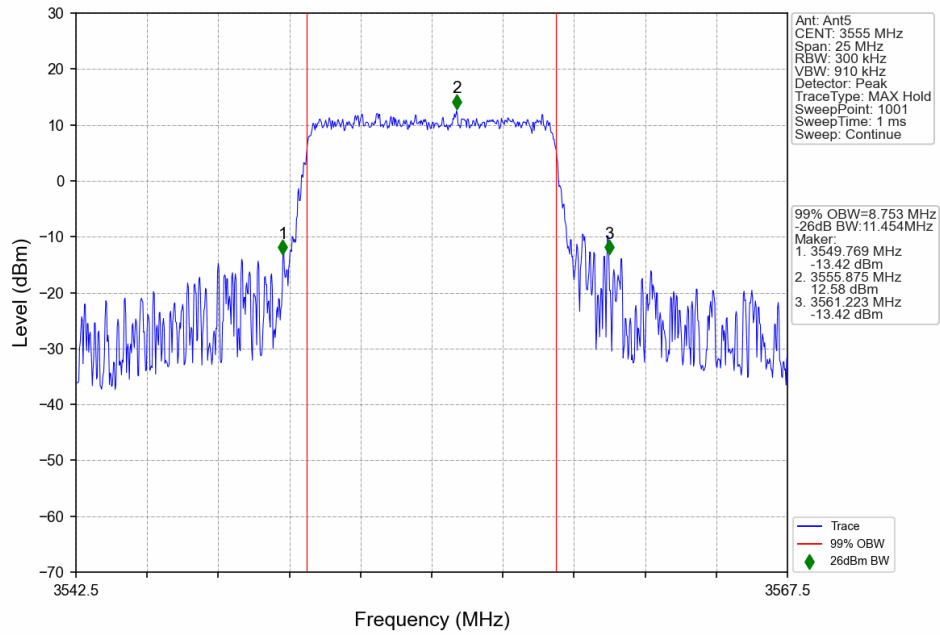
n48 30kHz SISO NTN 10MHz CP-OFDM 64 QAM 3624.99MHz Outer Full



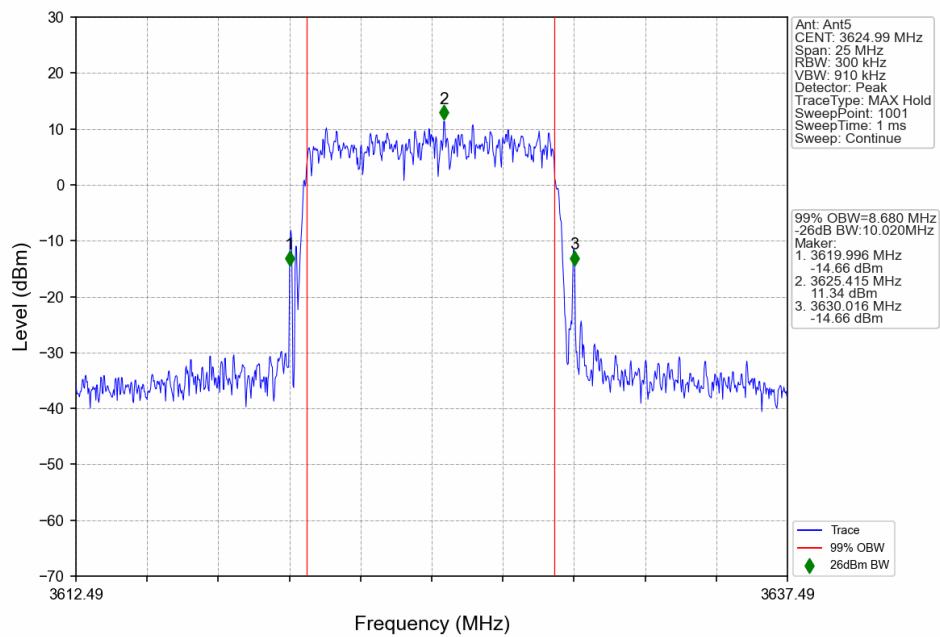
n48 30kHz SISO NTN 10MHz CP-OFDM 64 QAM 3694.98MHz Outer Full

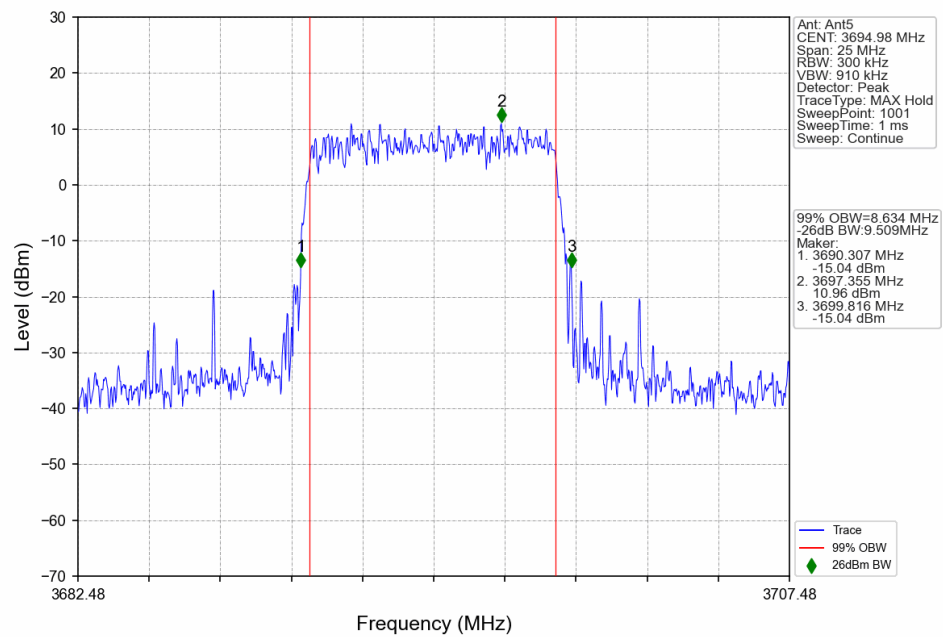


n48 30kHz SISO NTN 10MHz CP-OFDM 256 QAM 3555MHz Outer Full



n48 30kHz SISO NTN 10MHz CP-OFDM 256 QAM 3624.99MHz Outer Full



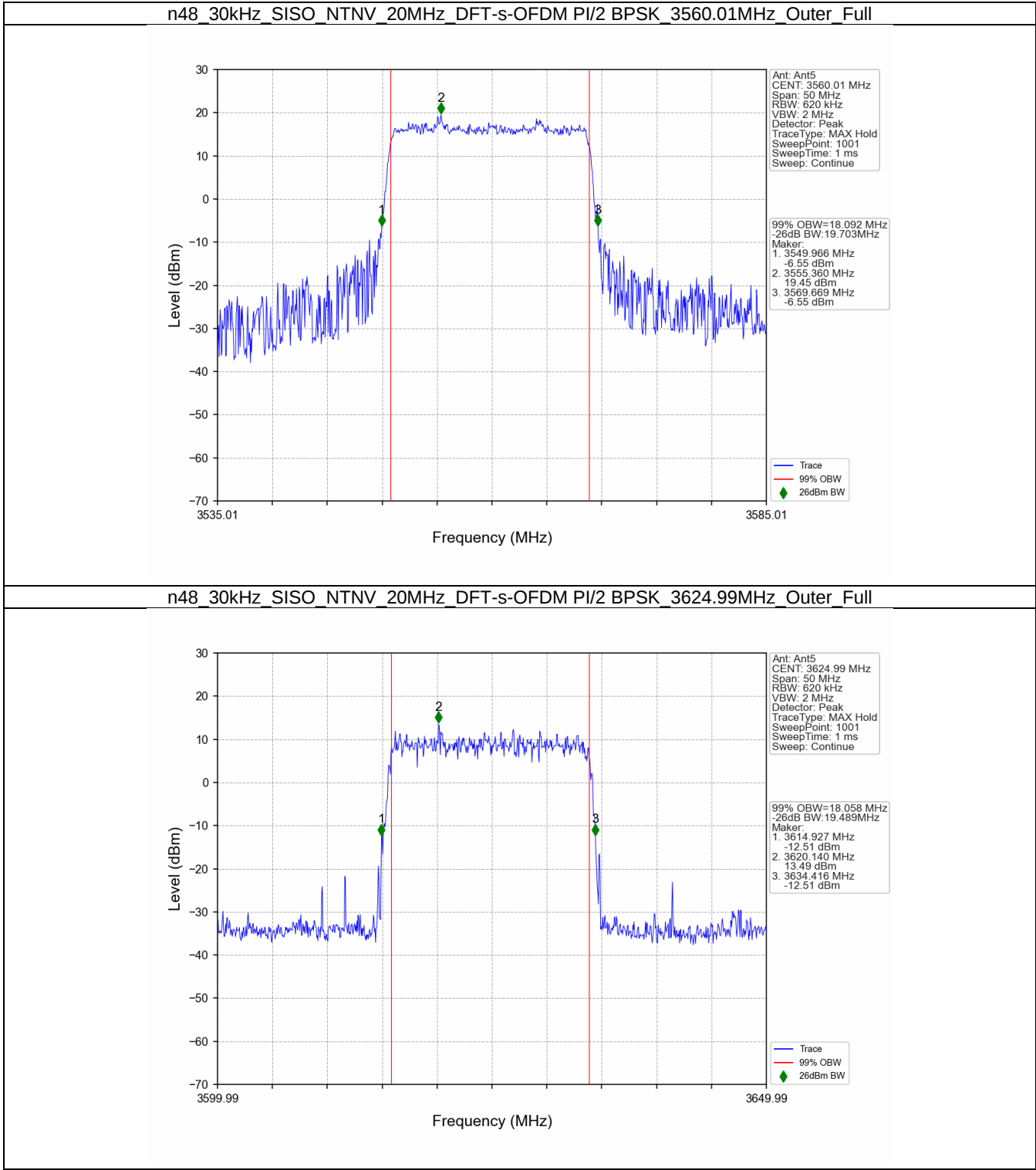


1.2 30k_SISO_20MHz_NTNV

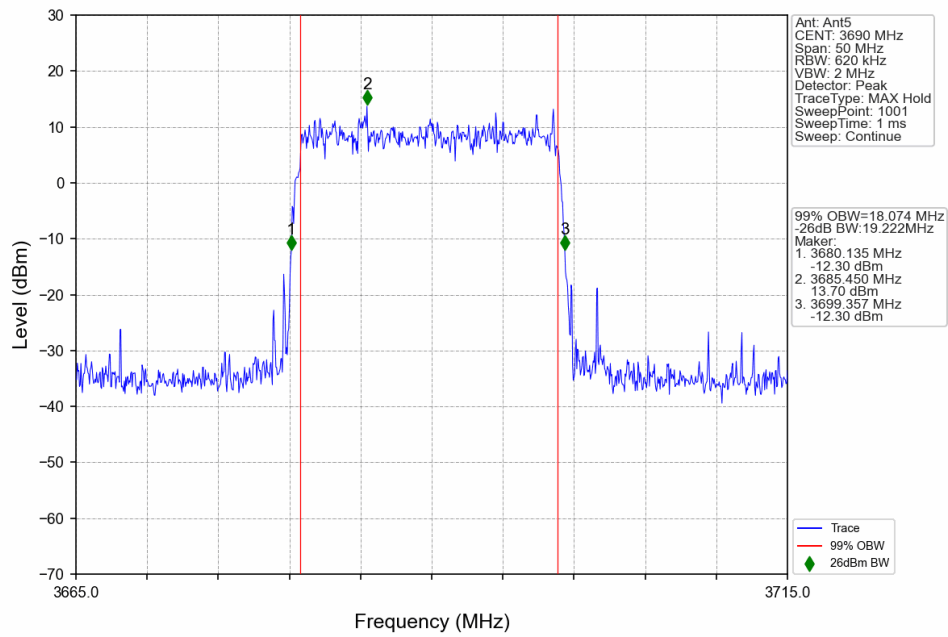
1.2.1 Test Result

5G NR n48 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	3560.01	Outer_Full	18.09	19.70	/	Pass
	3624.99	Outer_Full	18.06	19.49	/	Pass
	3690	Outer_Full	18.07	19.22	/	Pass
DFT-s-OFDM QPSK	3560.01	Outer_Full	18.06	20.59	/	Pass
	3624.99	Outer_Full	18.09	19.51	/	Pass
	3690	Outer_Full	18.17	19.30	/	Pass
DFT-s-OFDM 64 QAM	3560.01	Outer_Full	18.06	19.80	/	Pass
	3624.99	Outer_Full	18.10	19.41	/	Pass
	3690	Outer_Full	17.96	19.23	/	Pass
DFT-s-OFDM 256 QAM	3560.01	Outer_Full	18.12	19.63	/	Pass
	3624.99	Outer_Full	18.06	19.29	/	Pass
	3690	Outer_Full	18.03	19.64	/	Pass
CP-OFDM QPSK	3560.01	Outer_Full	18.38	20.56	/	Pass
	3624.99	Outer_Full	18.38	19.77	/	Pass
	3690	Outer_Full	18.34	19.76	/	Pass
CP-OFDM 64 QAM	3560.01	Outer_Full	18.36	20.06	/	Pass
	3624.99	Outer_Full	18.43	20.00	/	Pass
	3690	Outer_Full	18.35	19.62	/	Pass
CP-OFDM 256 QAM	3560.01	Outer_Full	18.37	20.14	/	Pass
	3624.99	Outer_Full	18.23	19.62	/	Pass
	3690	Outer_Full	18.32	19.53	/	Pass

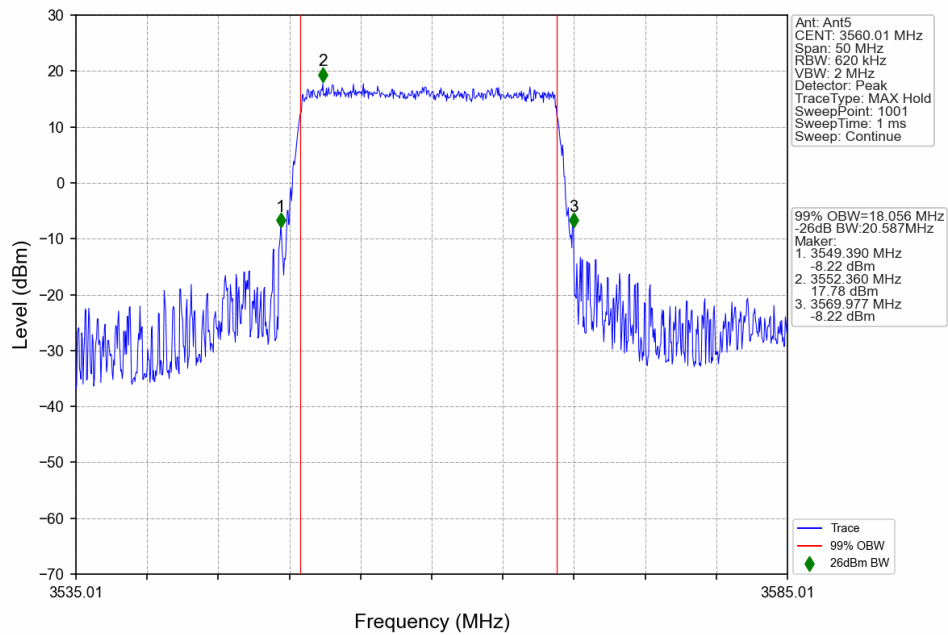
1.2.2 Test Graph



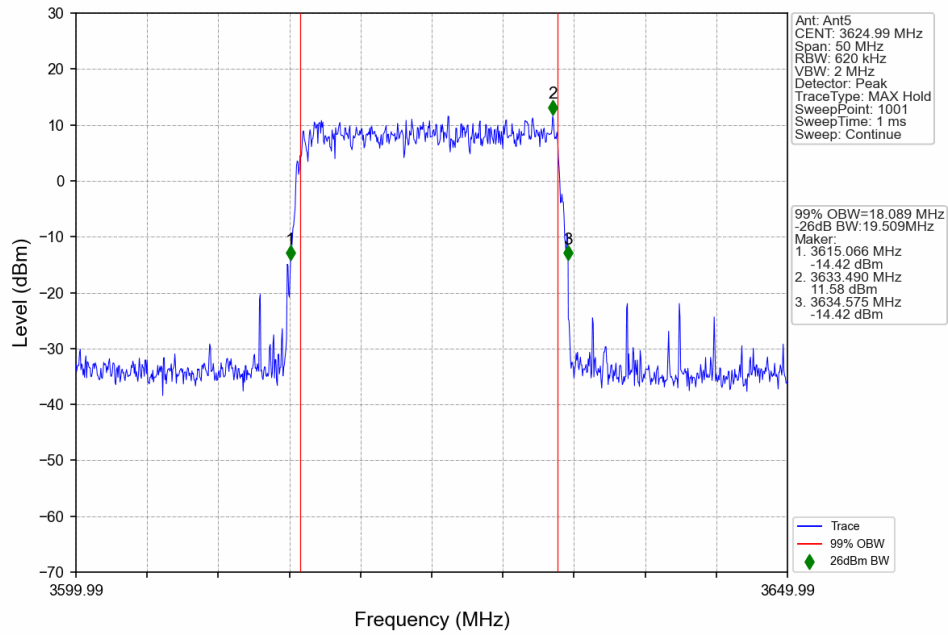
n48 30kHz SISO NTN 20MHz DFT-s-OFDM PI/2 BPSK 3690MHz Outer Full



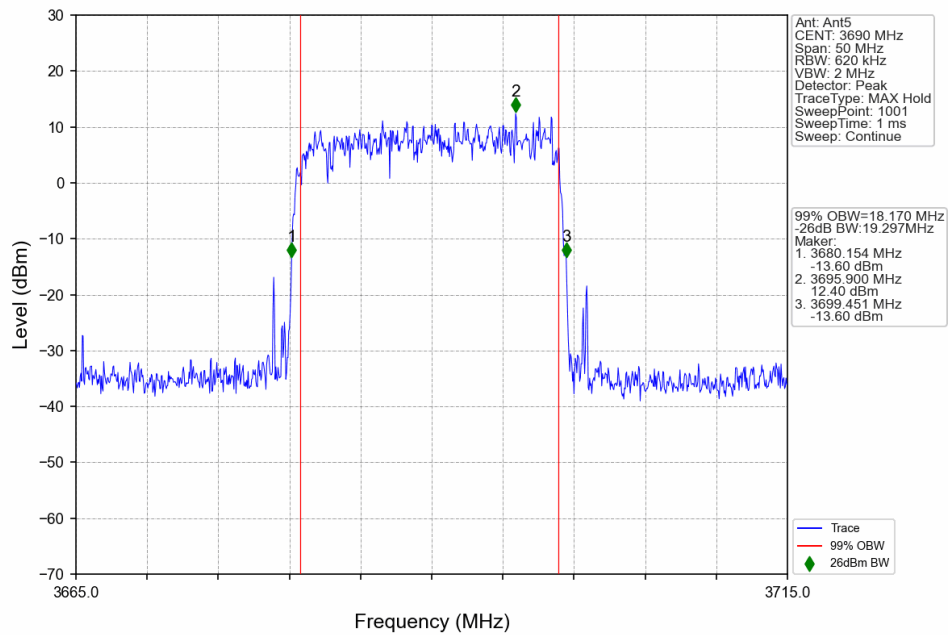
n48 30kHz SISO NTN 20MHz DFT-s-OFDM QPSK 3560.01MHz Outer Full



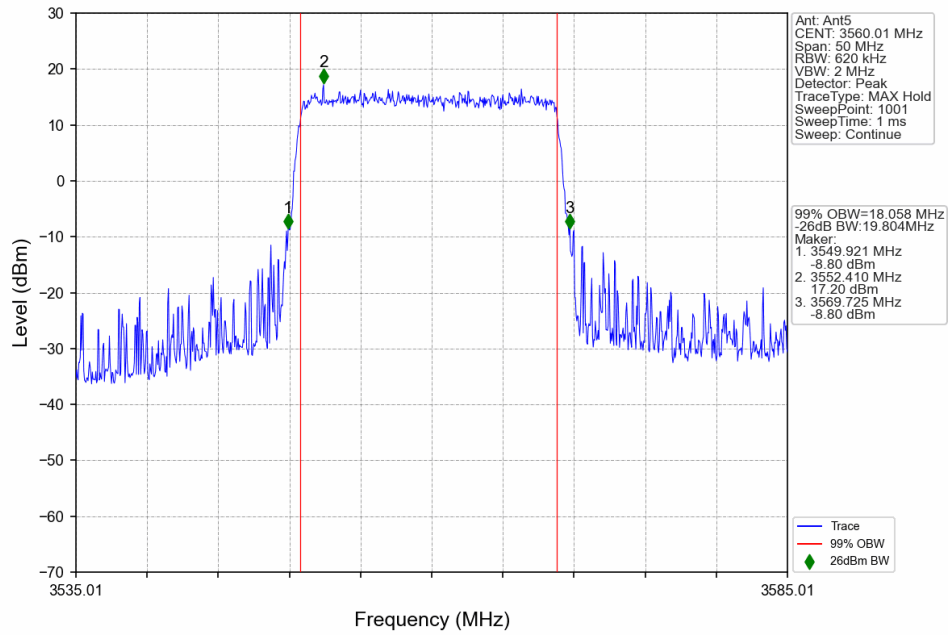
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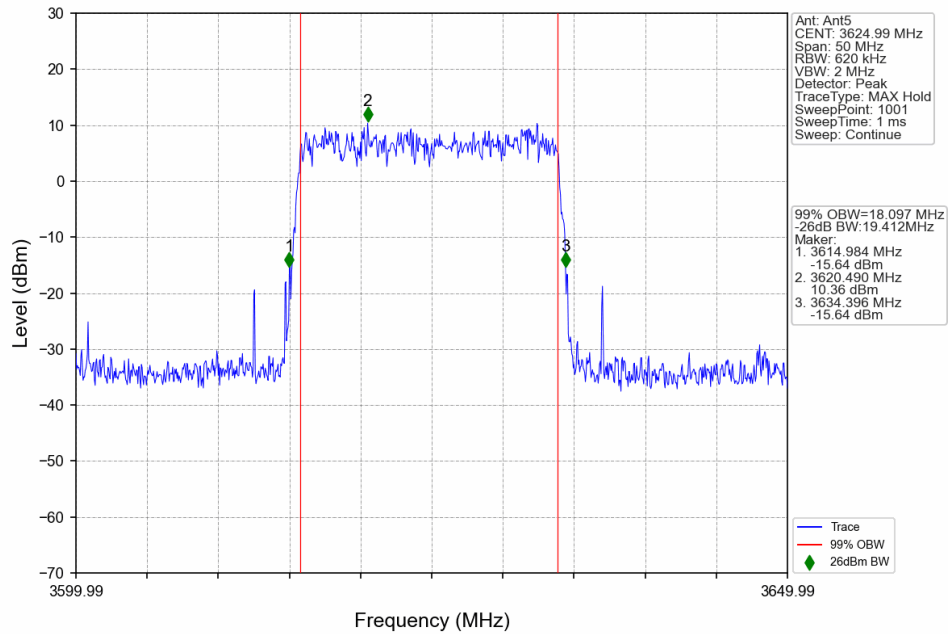
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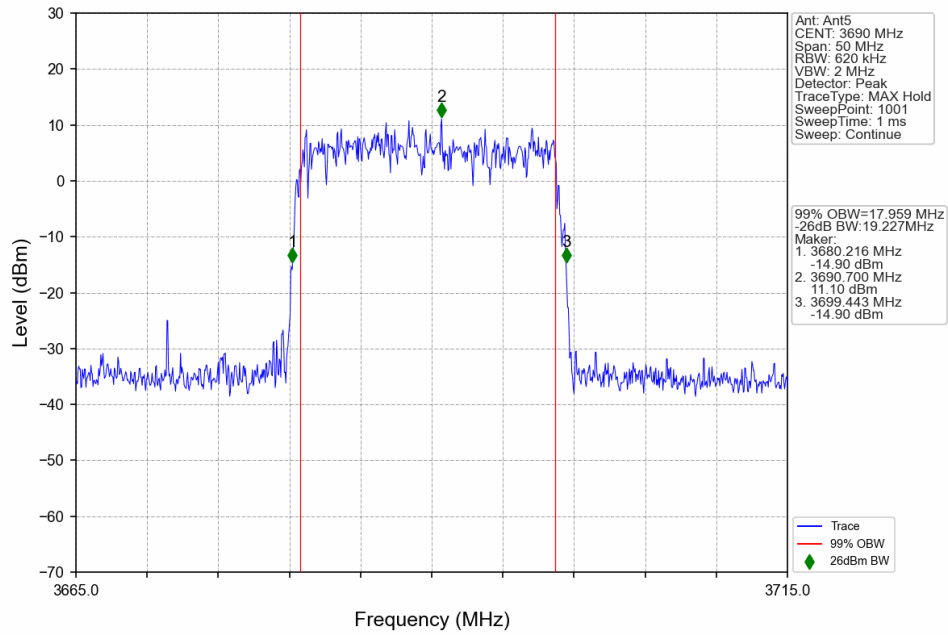
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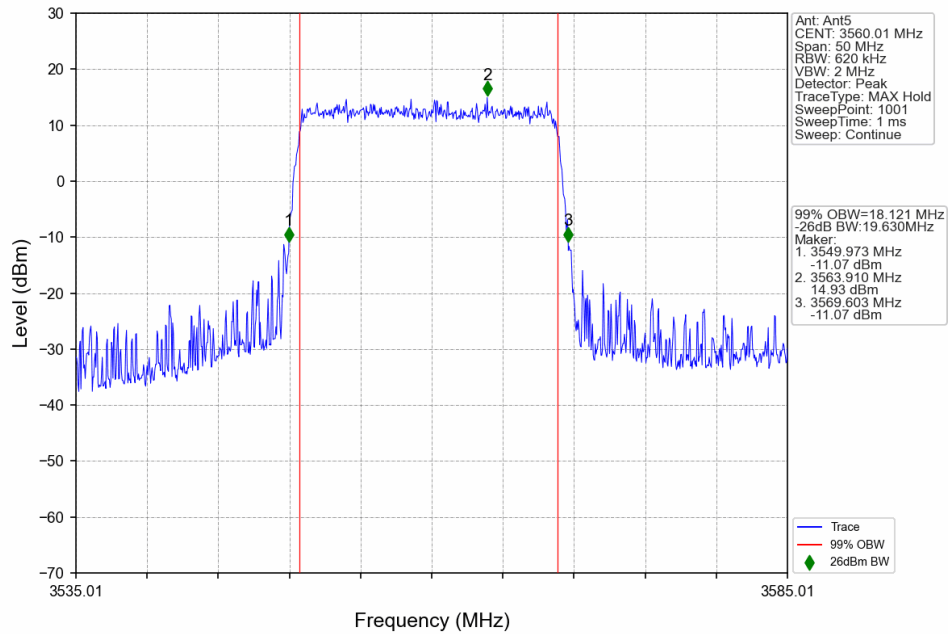
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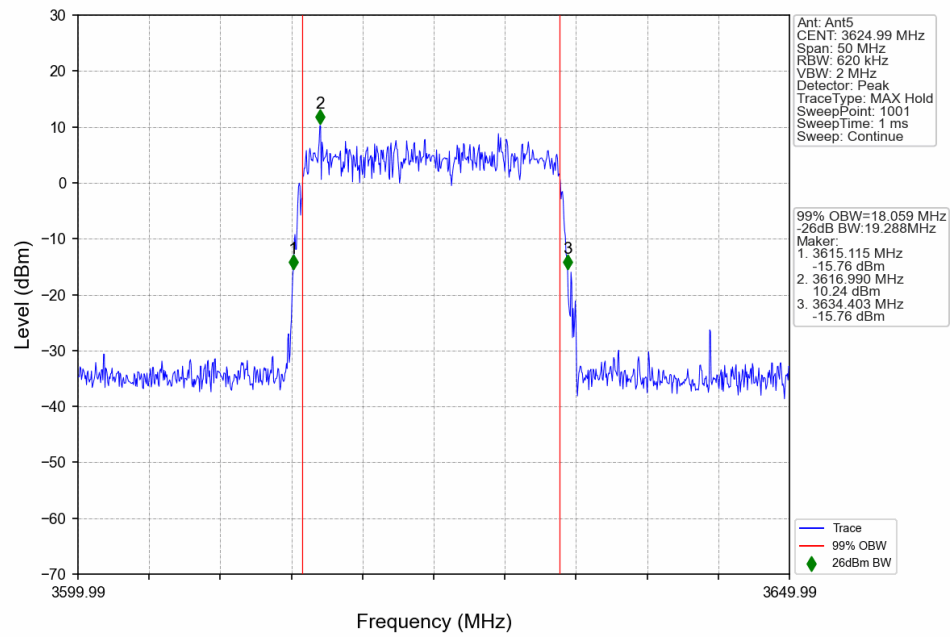
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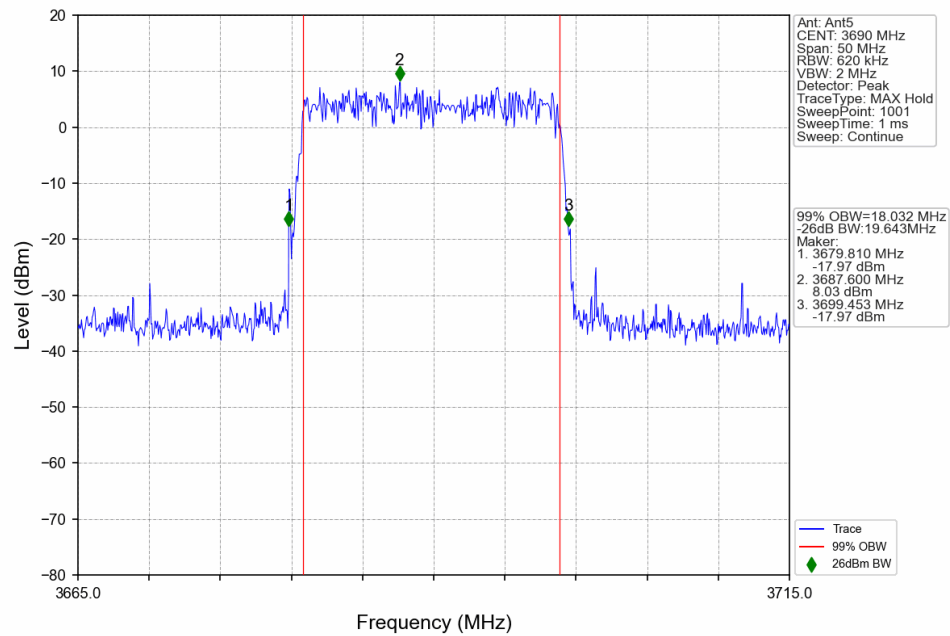
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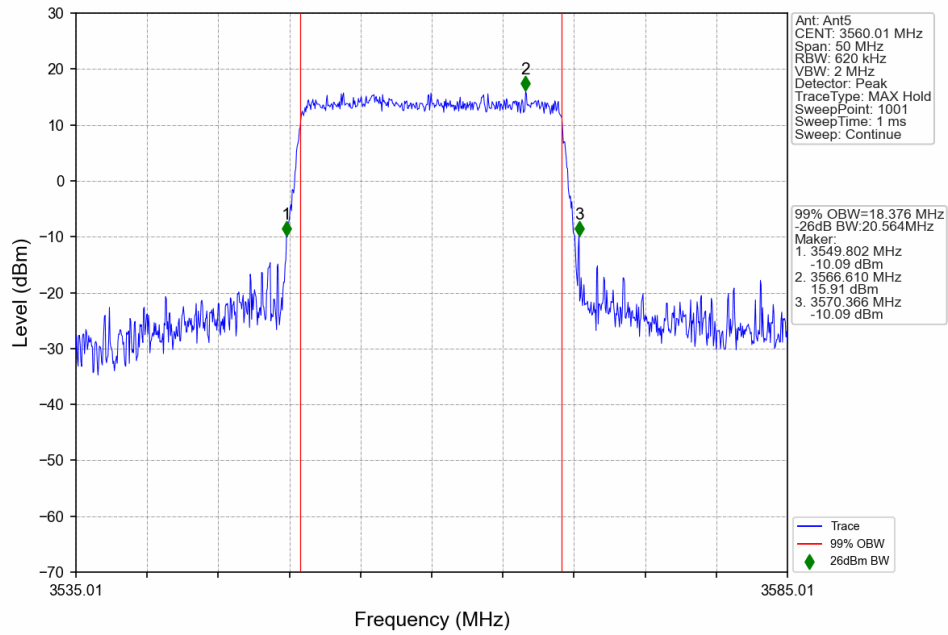
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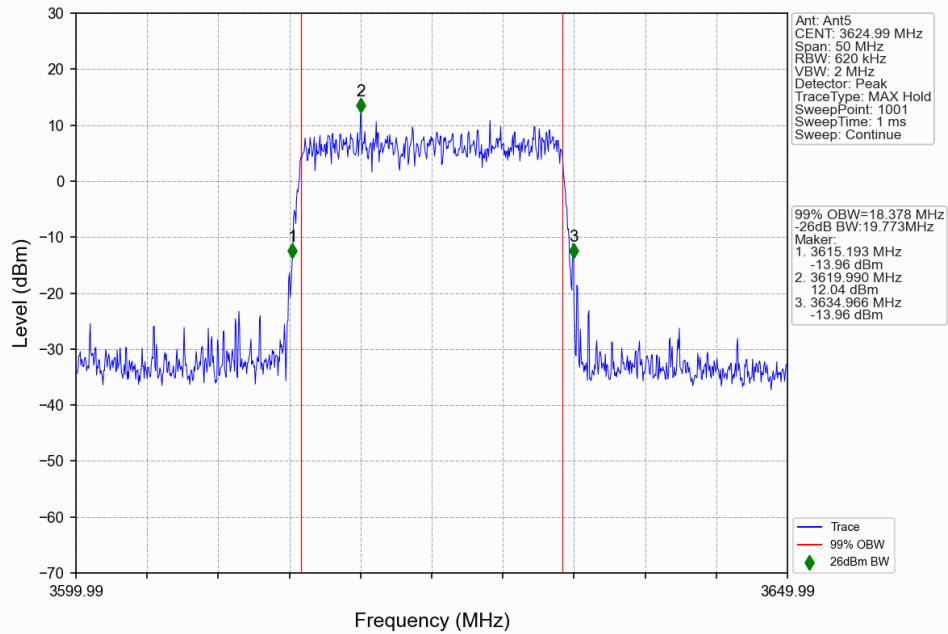
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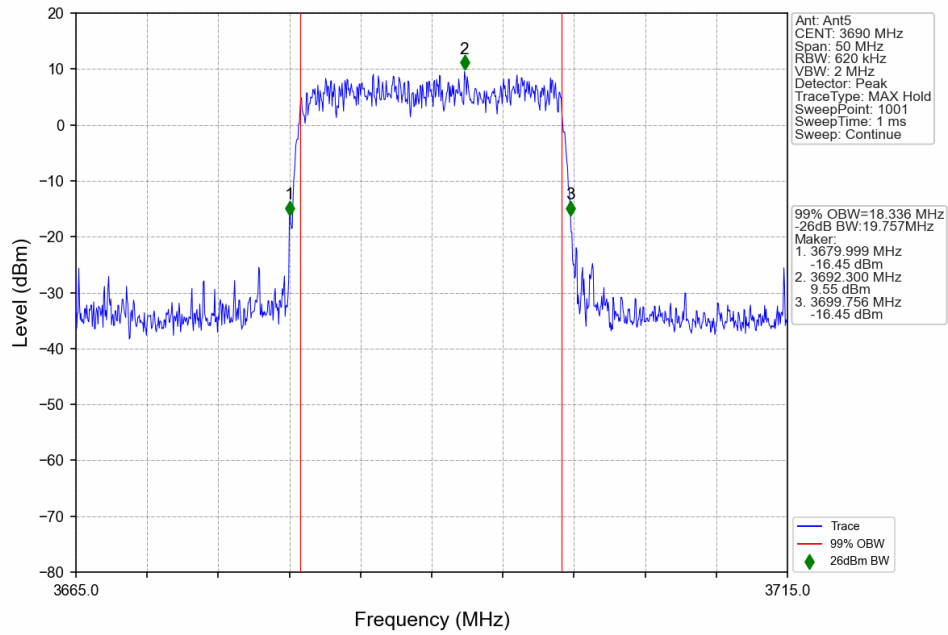
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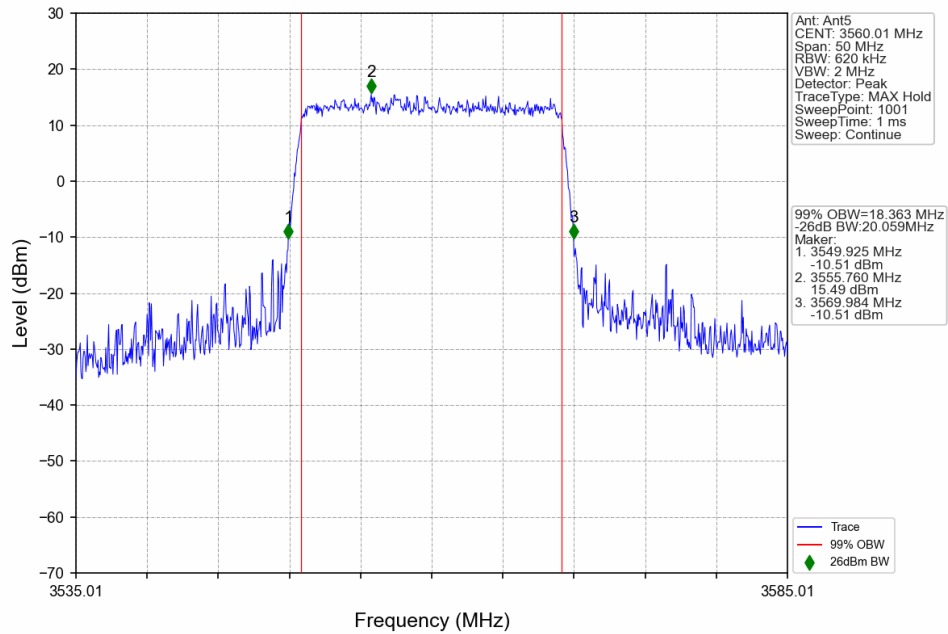
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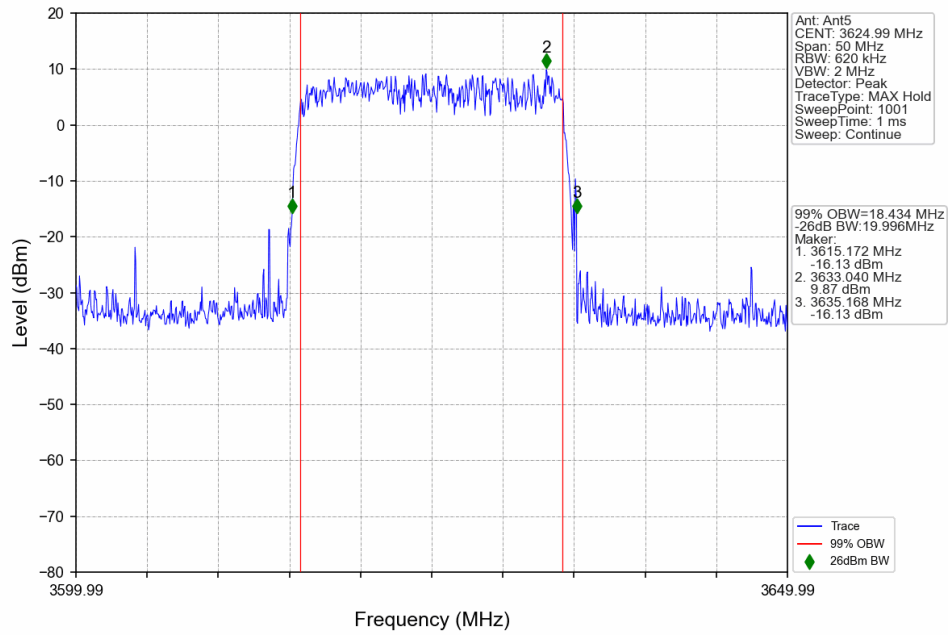
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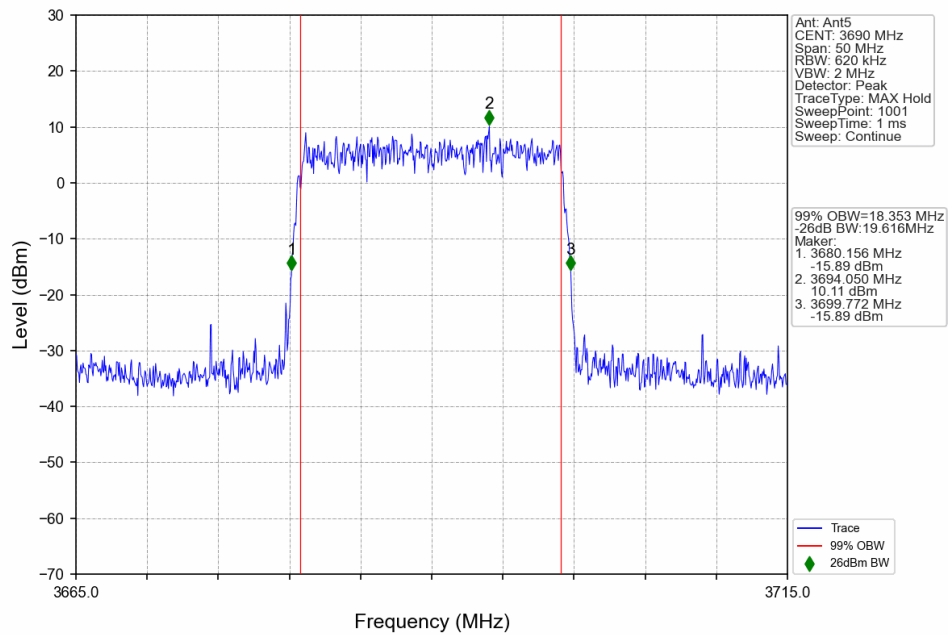
n48_30kHz_SISO_NTNV_20MHz_CP-OFDM_64_QAM_3560.01MHz_Outer_Full



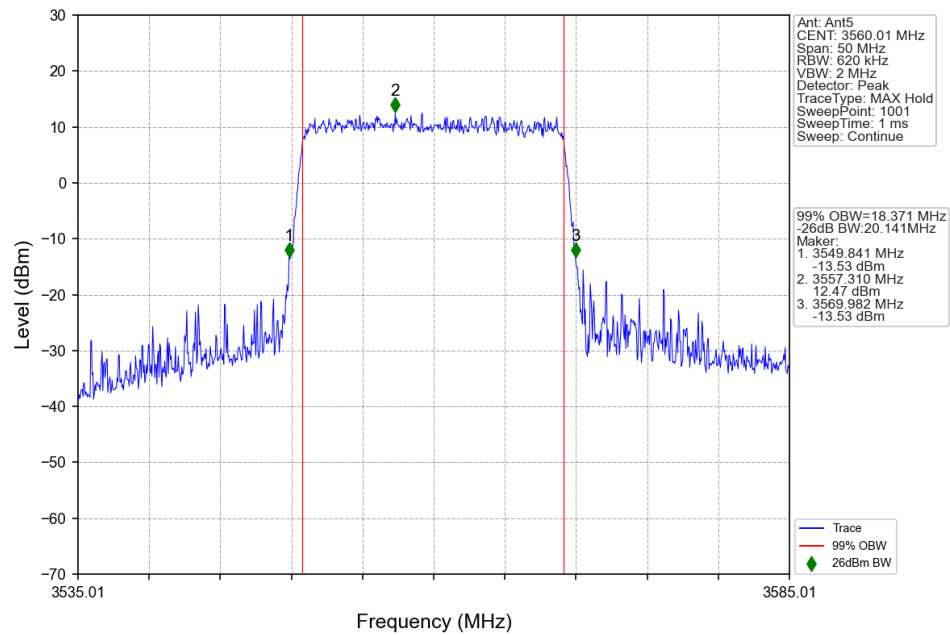
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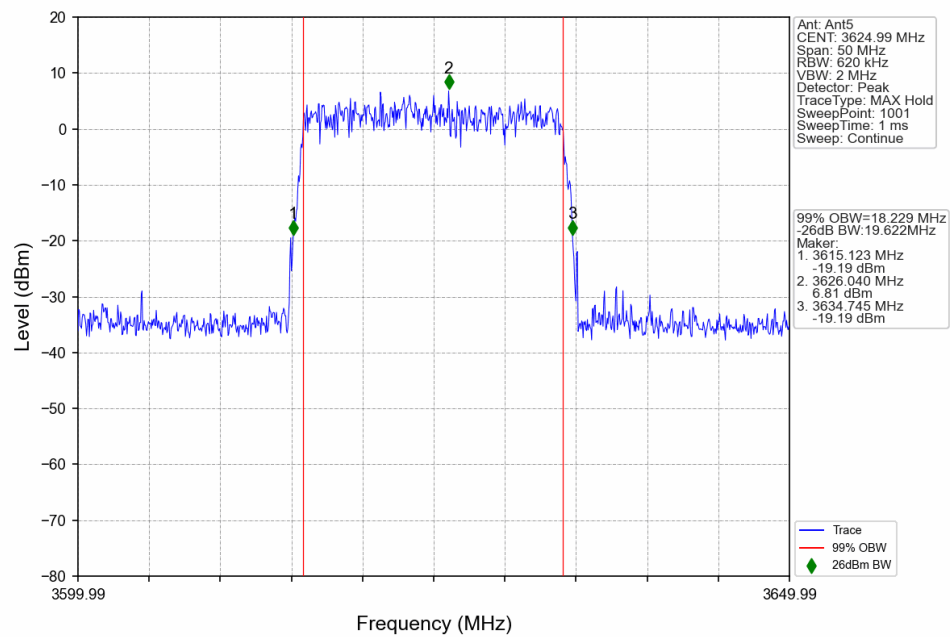
n48 30kHz SISO NTN 20MHz CP-OFDM 64 QAM 3690MHz Outer Full

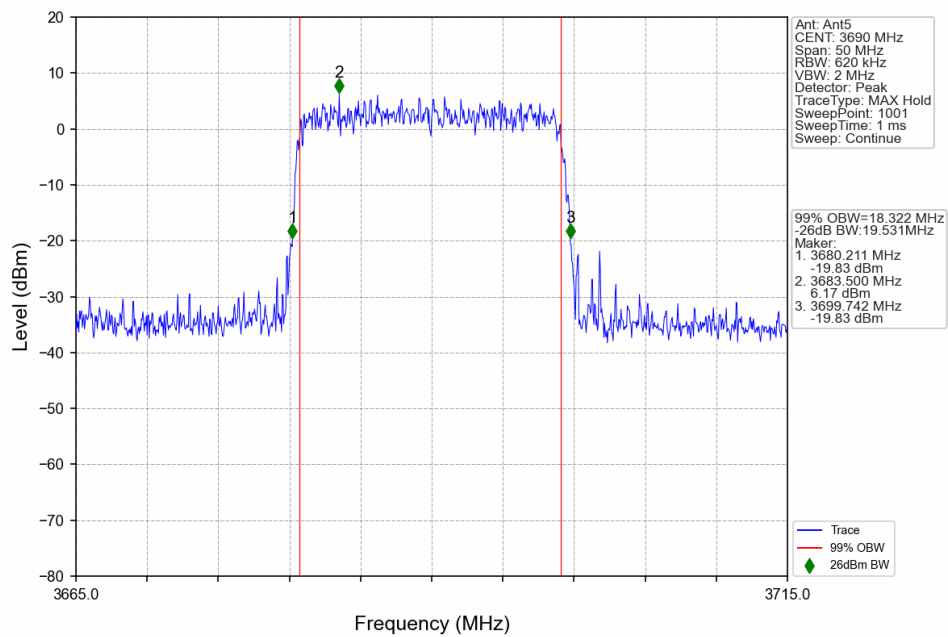


n48 30kHz SISO NTN 20MHz CP-OFDM 256 QAM 3560.01MHz Outer Full



n48 30kHz SISO NTN 20MHz CP-OFDM 256 QAM 3624.99MHz Outer Full



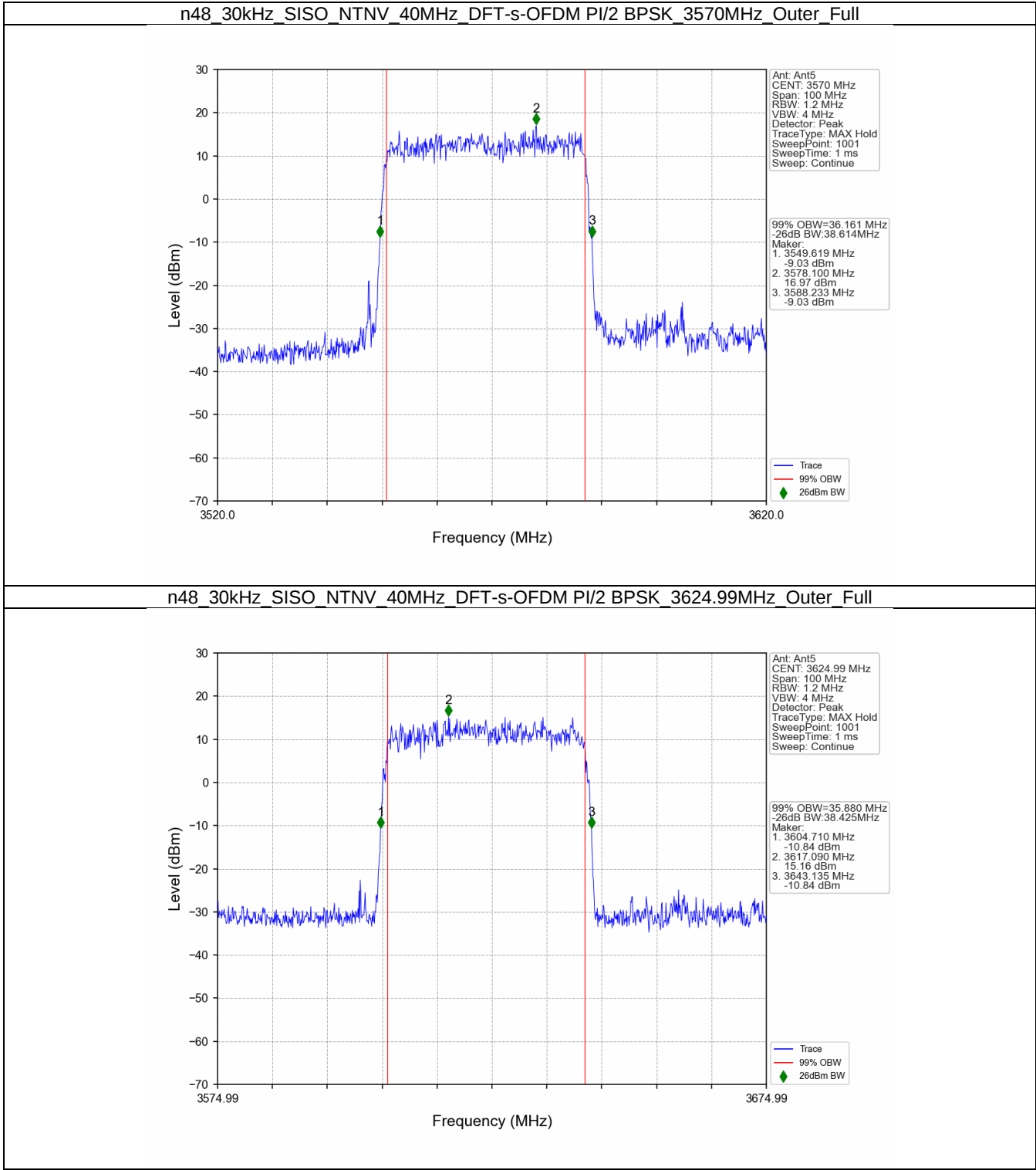


1.3 30k_SISO_40MHz_NTNV

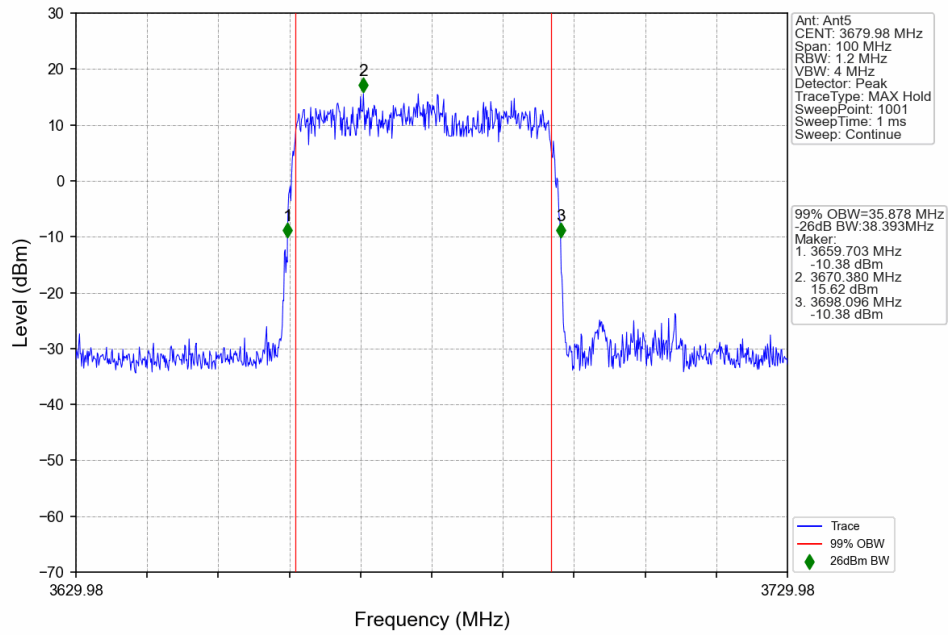
1.3.1 Test Result

5G NR n48 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	3570	Outer_Full	36.16	38.61	/	Pass
	3624.99	Outer_Full	35.88	38.42	/	Pass
	3679.98	Outer_Full	35.88	38.39	/	Pass
DFT-s-OFDM QPSK	3570	Outer_Full	36.21	38.37	/	Pass
	3624.99	Outer_Full	36.11	38.44	/	Pass
	3679.98	Outer_Full	36.14	38.56	/	Pass
DFT-s-OFDM 64 QAM	3570	Outer_Full	36.10	38.51	/	Pass
	3624.99	Outer_Full	36.17	38.45	/	Pass
	3679.98	Outer_Full	36.12	38.31	/	Pass
DFT-s-OFDM 256 QAM	3570	Outer_Full	36.08	38.54	/	Pass
	3624.99	Outer_Full	35.98	38.07	/	Pass
	3679.98	Outer_Full	36.13	38.47	/	Pass
CP-OFDM QPSK	3570	Outer_Full	38.12	40.61	/	Pass
	3624.99	Outer_Full	38.17	40.62	/	Pass
	3679.98	Outer_Full	38.16	40.64	/	Pass
CP-OFDM 64 QAM	3570	Outer_Full	38.13	40.76	/	Pass
	3624.99	Outer_Full	37.95	40.71	/	Pass
	3679.98	Outer_Full	38.32	40.70	/	Pass
CP-OFDM 256 QAM	3570	Outer_Full	37.99	40.67	/	Pass
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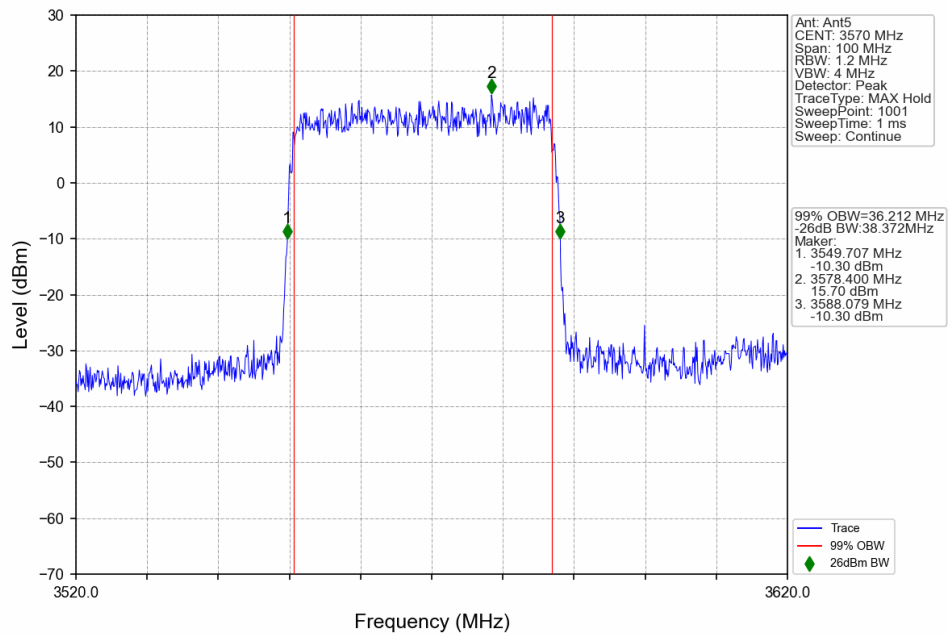
1.3.2 Test Graph



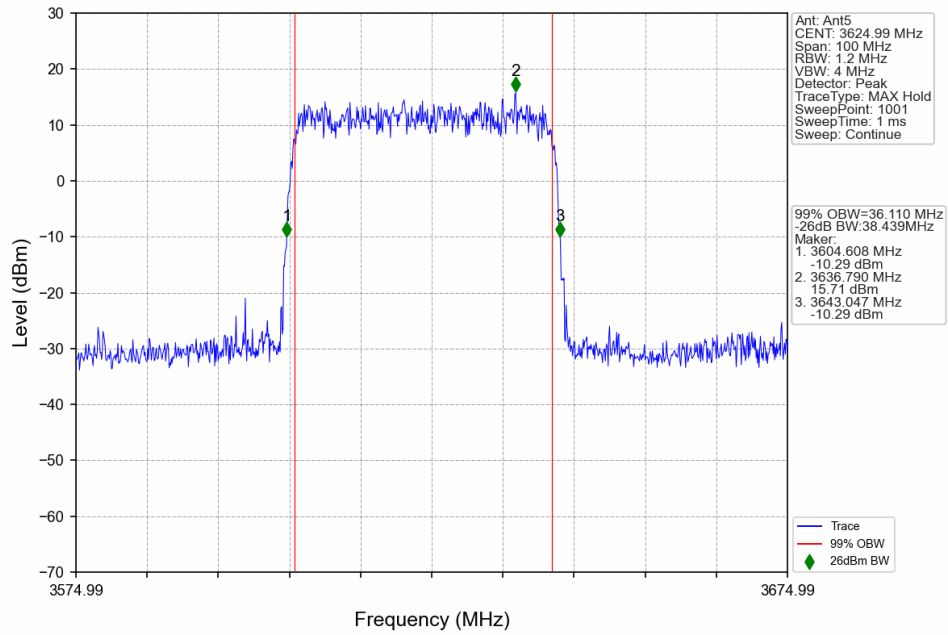
n48 30kHz SISO NTN 40MHz DFT-s-OFDM PI/2 BPSK 3679.98MHz Outer Full



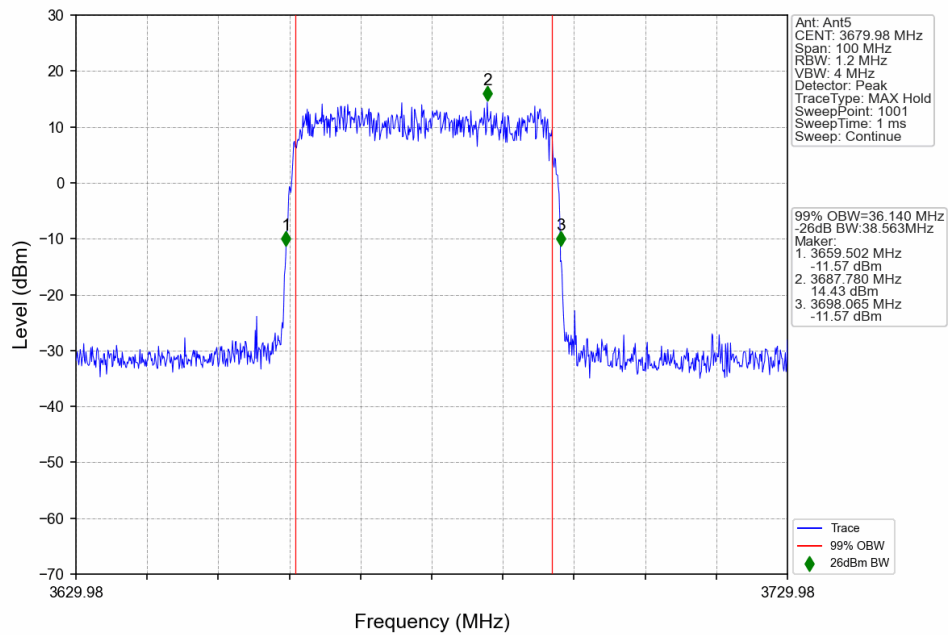
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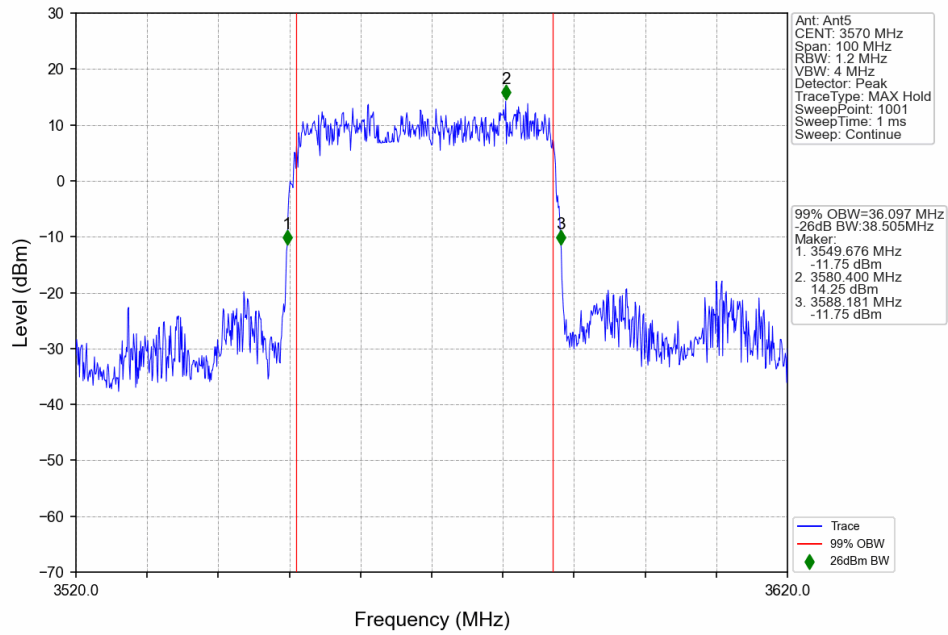
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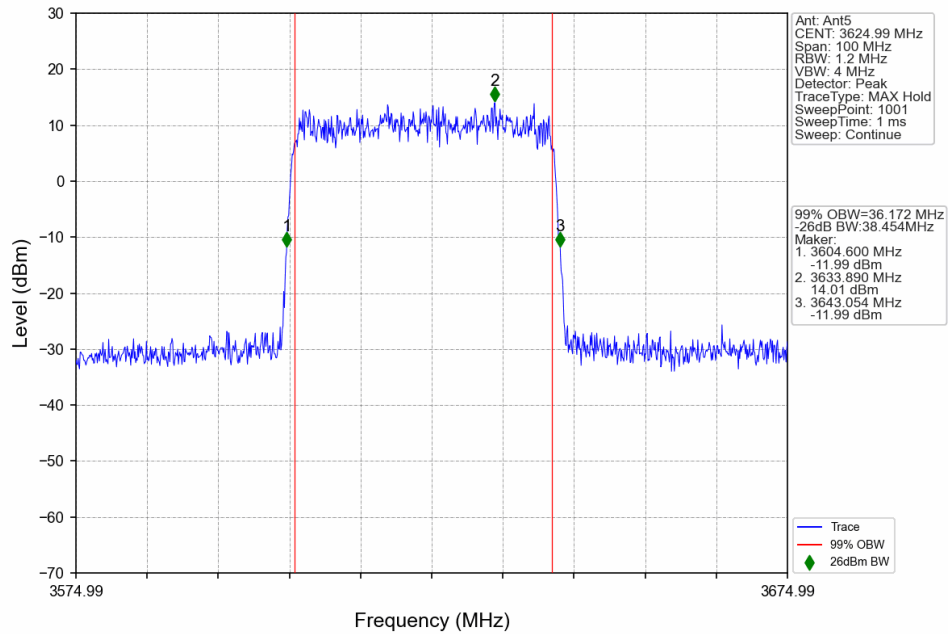
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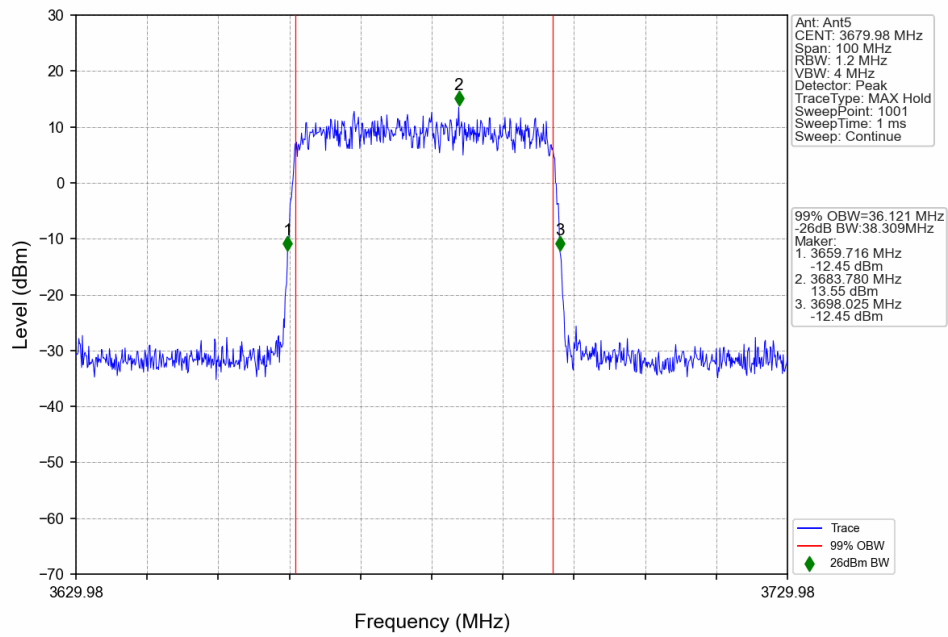
n48 30kHz SISO NTN 40MHz DFT-s-OFDM 64 QAM 3570MHz Outer Full



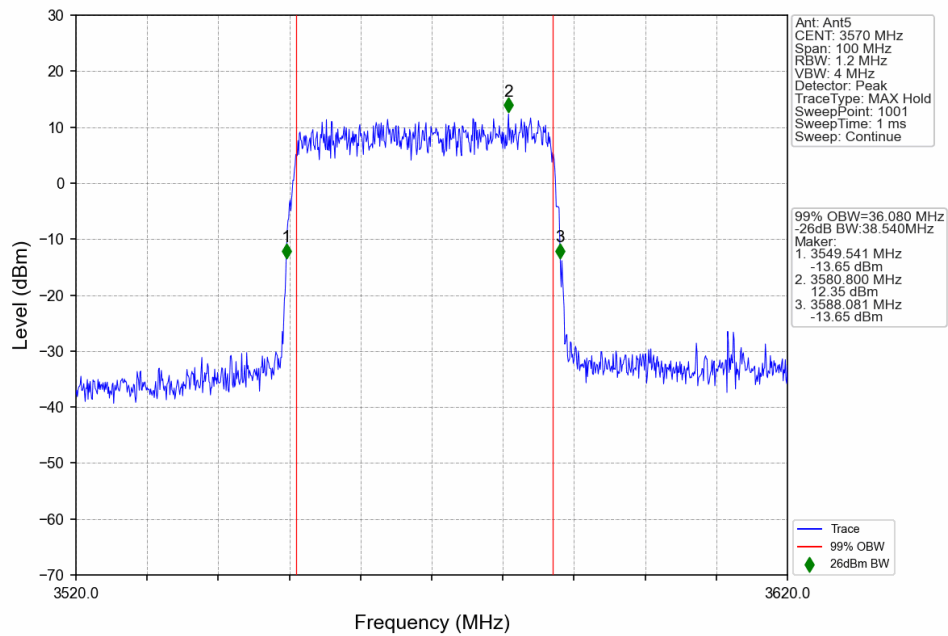
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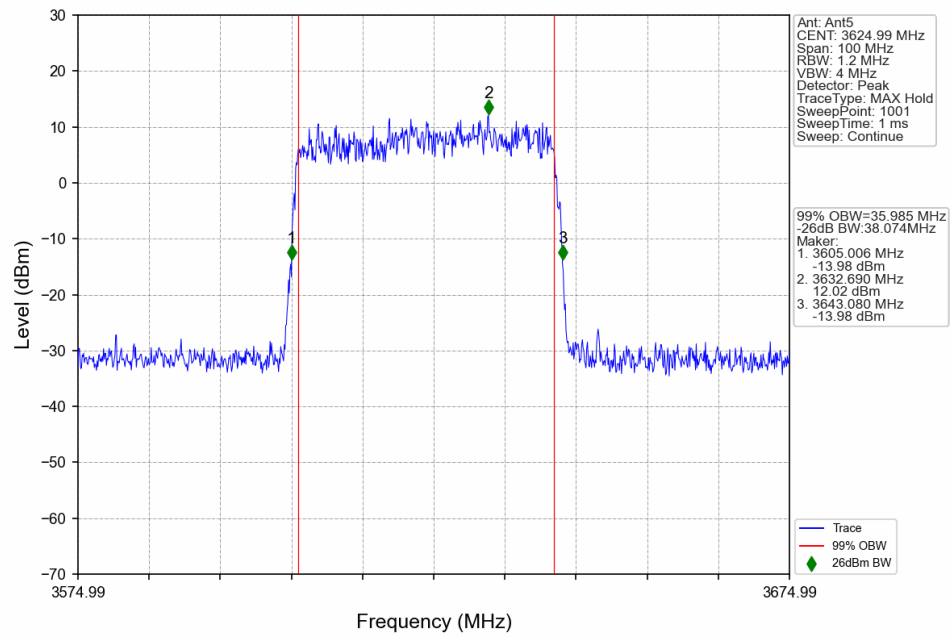
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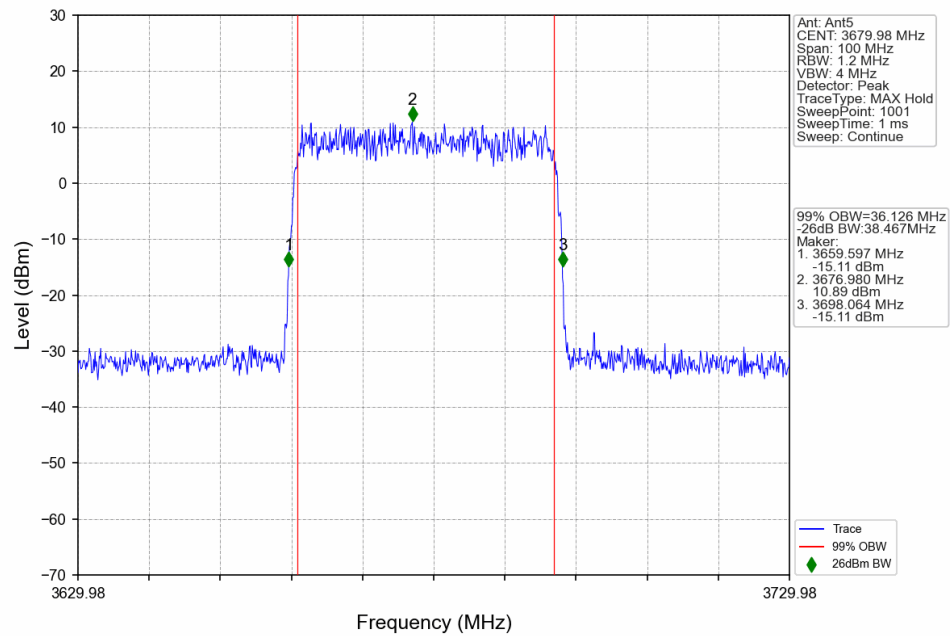
n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_256_QAM_3570MHz_Outer_Full



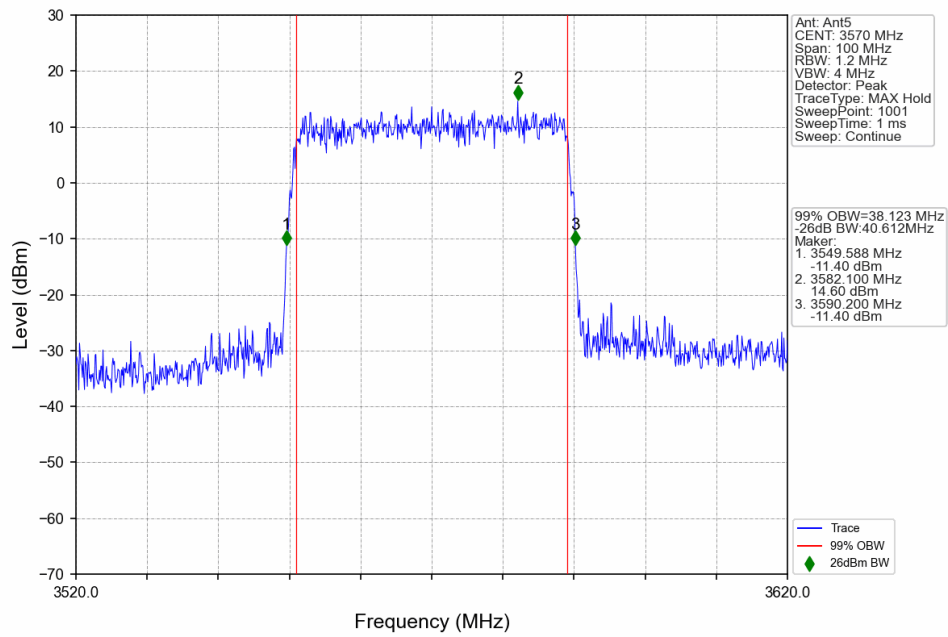
n48 30kHz SISO NTN 40MHz DFT-s-OFDM 256 QAM 3624.99MHz Outer Full



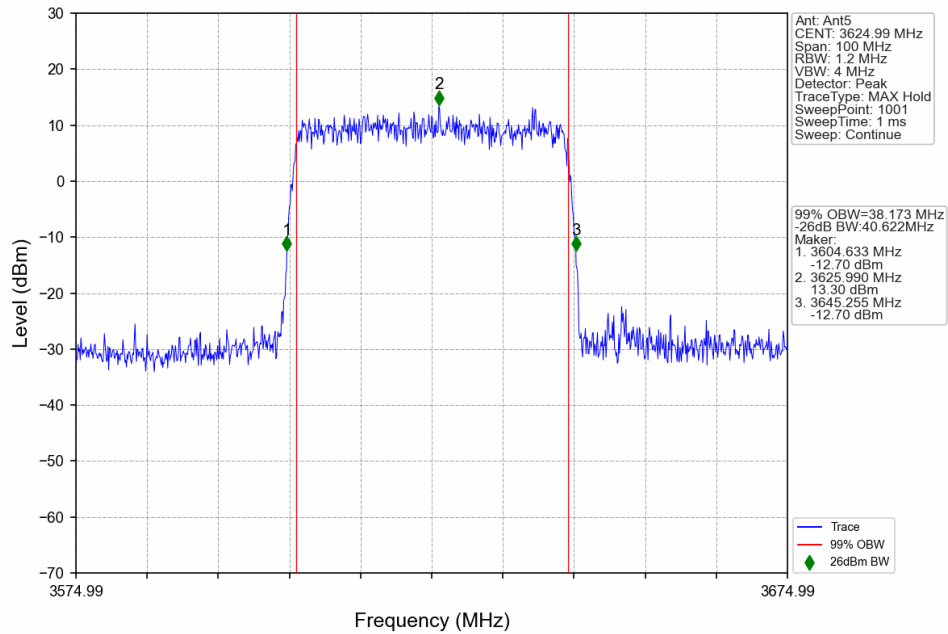
n48 30kHz SISO NTN 40MHz DFT-s-OFDM 256 QAM 3679.98MHz Outer Full



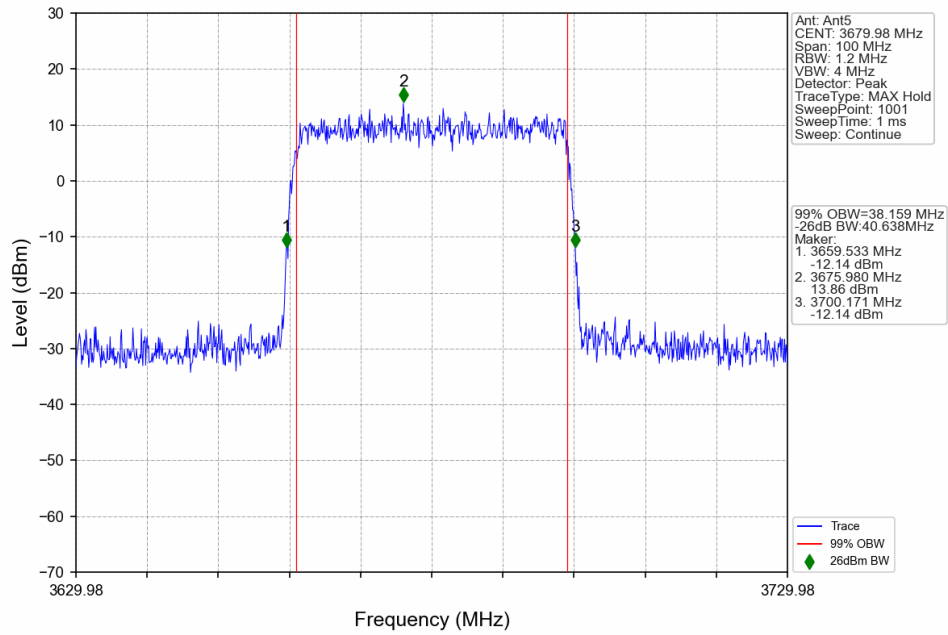
n48_30kHz_SISO_NTNV_40MHz_CP-OFDM_QPSK_3570MHz_Outer_Full



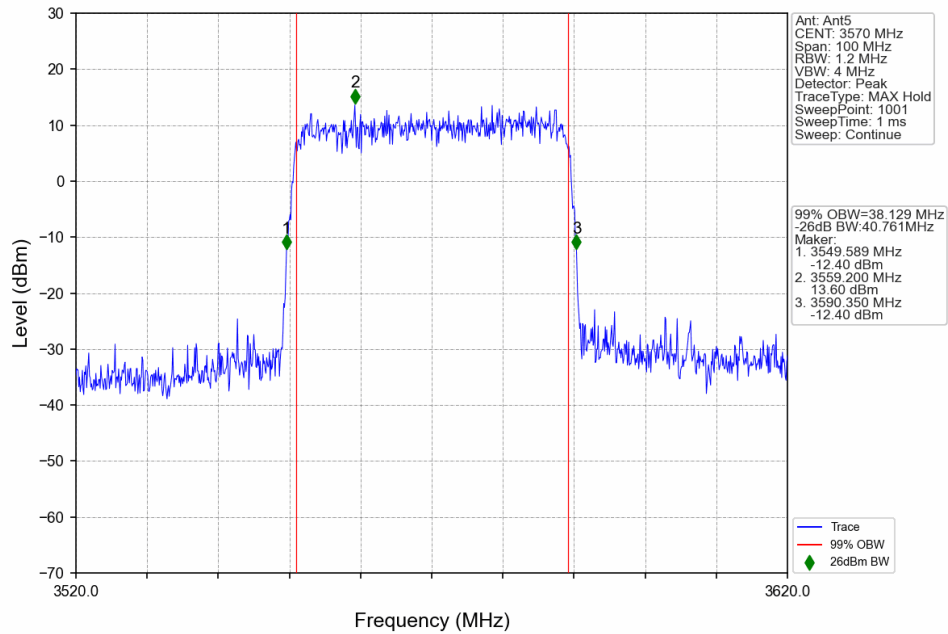
n48_30kHz_SISO_NTNV_40MHz_CP-OFDM_QPSK_3624.99MHz_Outer_Full



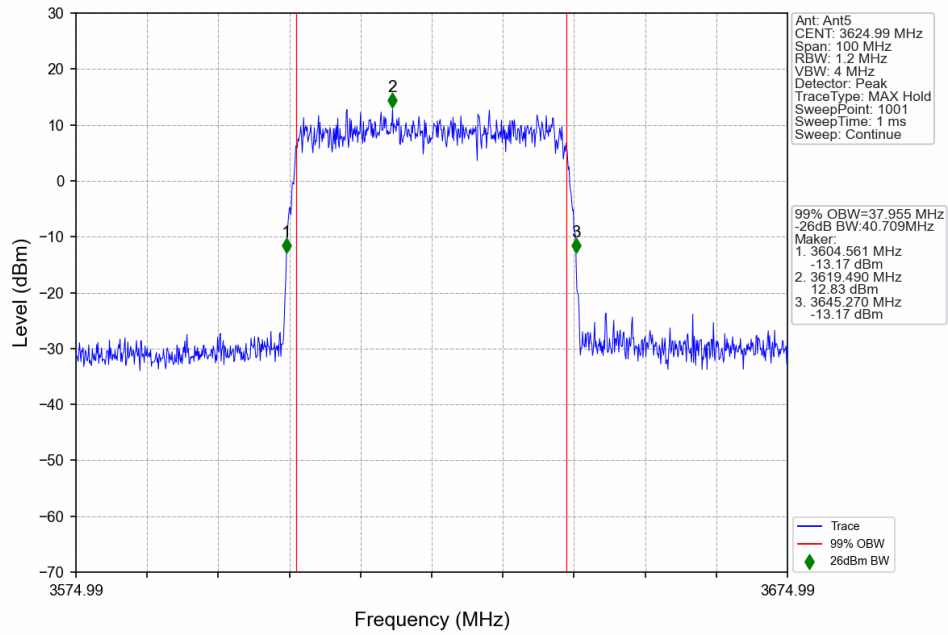
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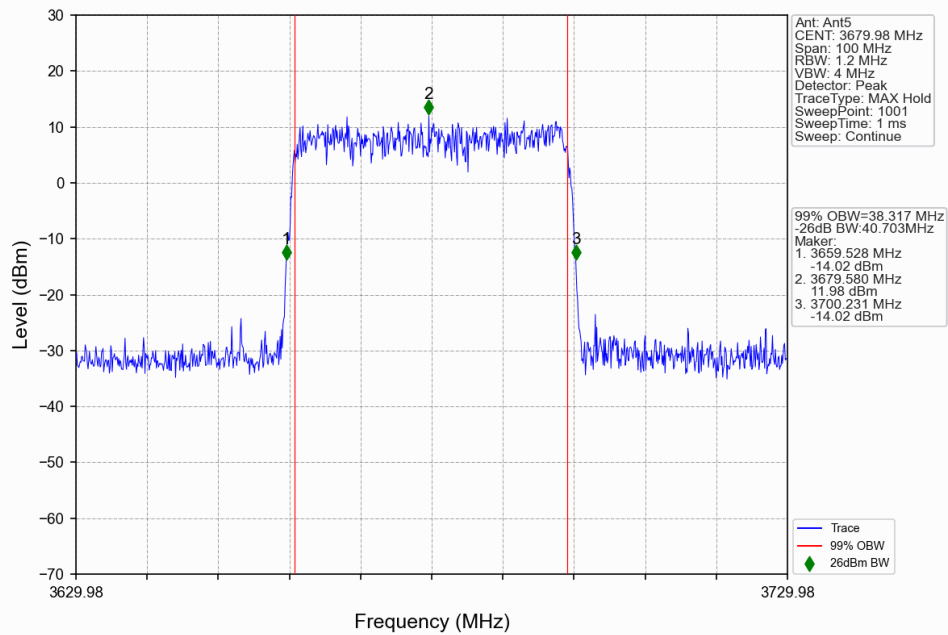
n48_30kHz_SISO_NTNV_40MHz_CP-OFDM_64_QAM_3570MHz_Outer_Full



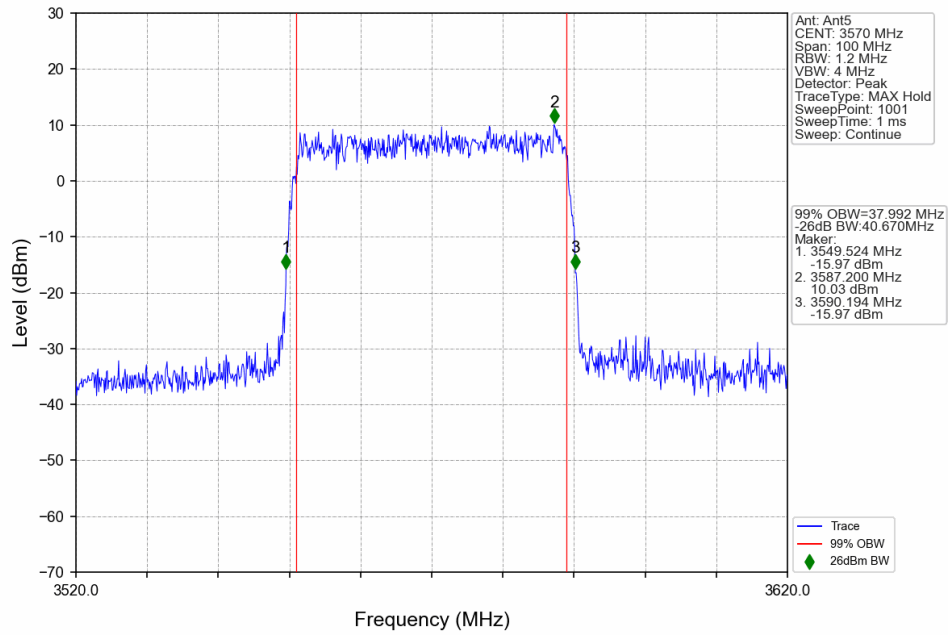
n48 30kHz SISO NTN 40MHz CP-OFDM 64 QAM 3624.99MHz Outer Full



n48 30kHz SISO NTN 40MHz CP-OFDM 64 QAM 3679.98MHz Outer Full



n48 30kHz SISO NTN 40MHz CP-OFDM 256 QAM 3570MHz Outer Full



n48 30kHz SISO NTN 40MHz CP-OFDM 256 QAM 3624.99MHz Outer Full

