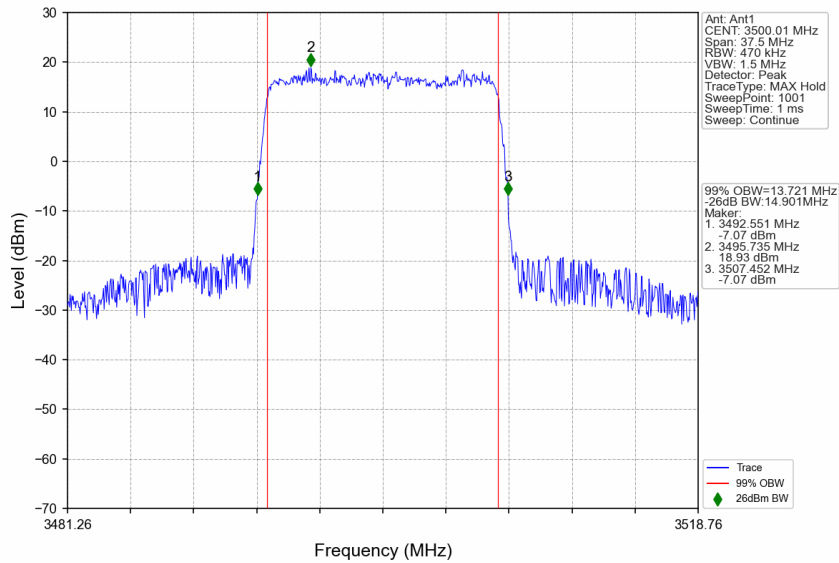
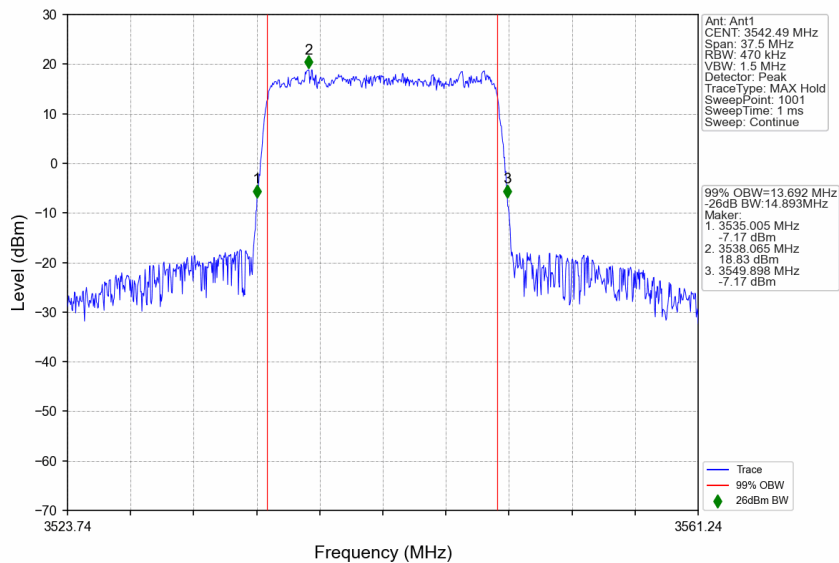


n77d_30kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_3500.01MHz_Outer_Full



n77d_30kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_3542.49MHz_Outer_Full

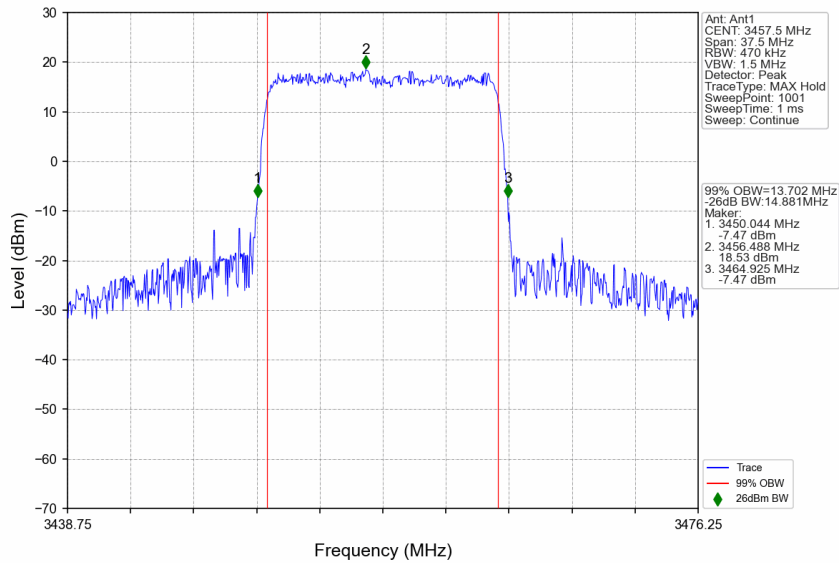


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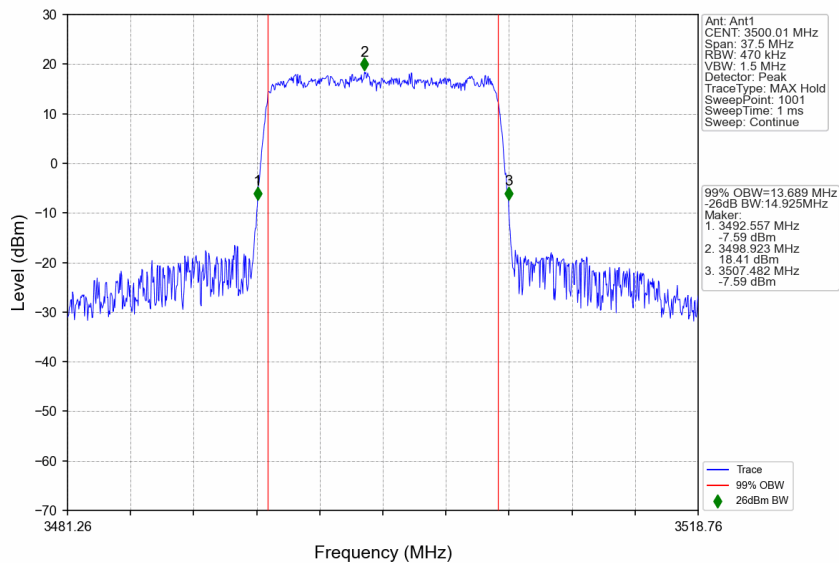
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n77d_30kHz_SISO_NTNV_15MHz_CP-OFDM 16 QAM_3457.5MHz_Outer_Full



n77d_30kHz_SISO_NTNV_15MHz_CP-OFDM 16 QAM_3500.01MHz_Outer_Full

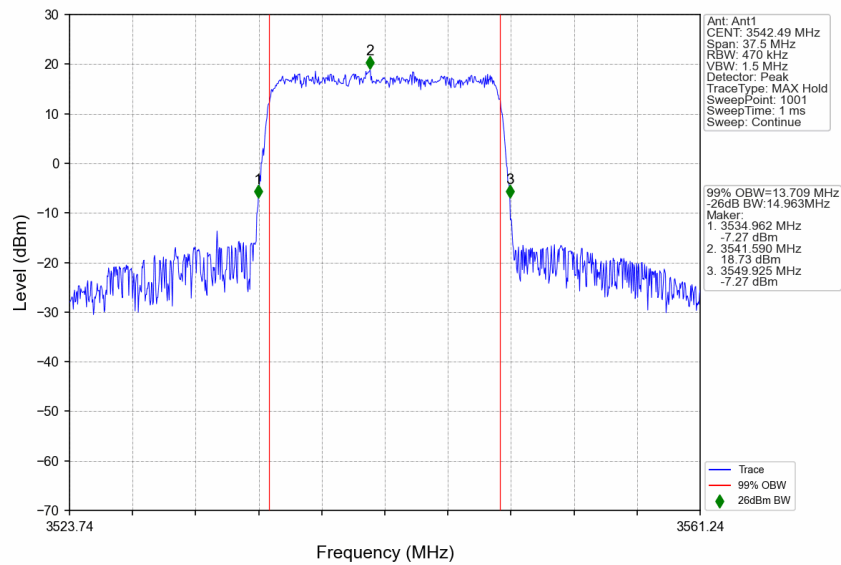


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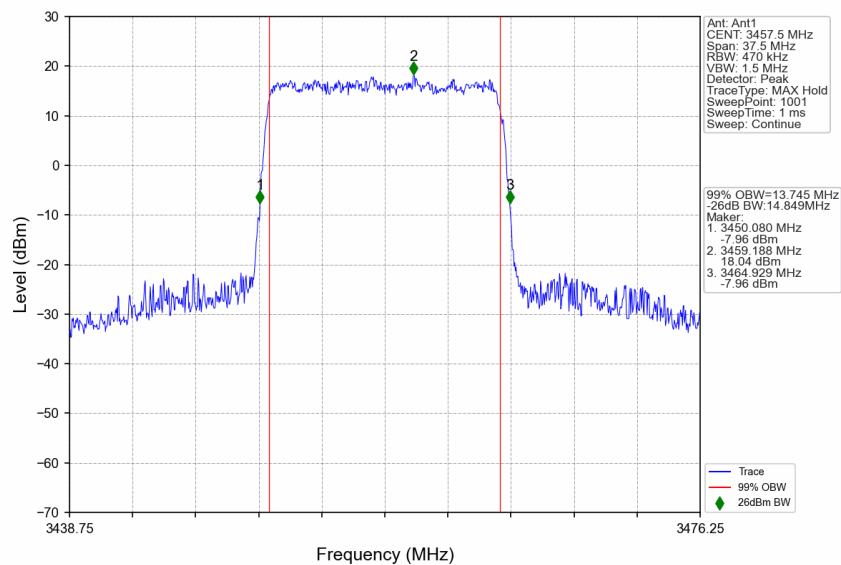
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n77d_30kHz_SISO_NTNV_15MHz_CP-OFDM 16 QAM_3542.49MHz_Outer_Full



n77d_30kHz_SISO_NTNV_15MHz_CP-OFDM 64 QAM_3457.5MHz_Outer_Full

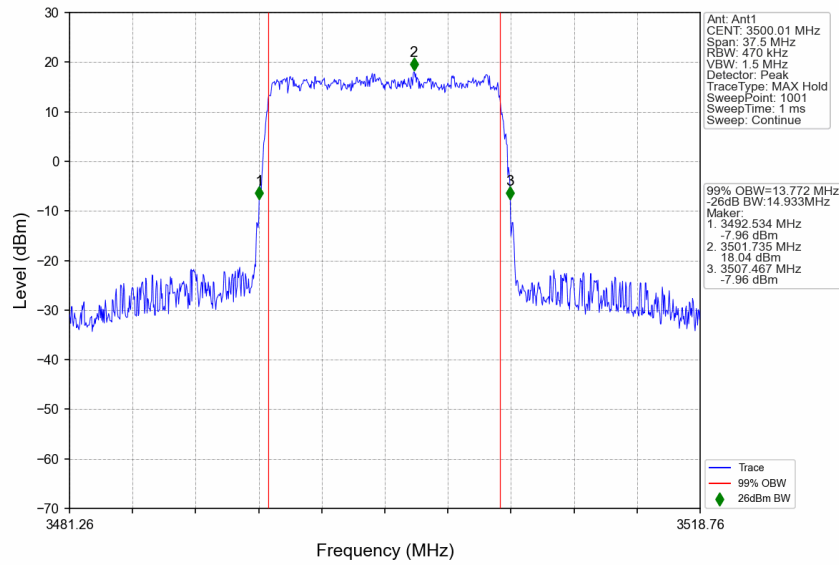


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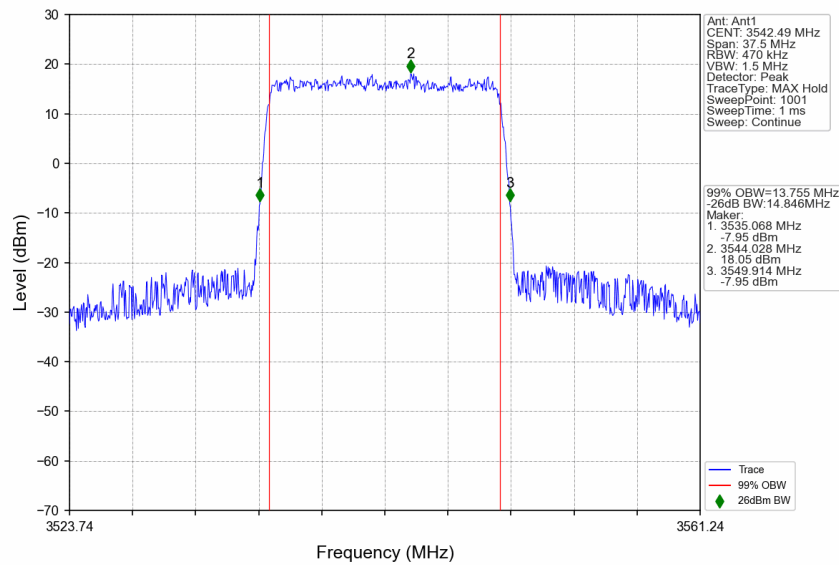
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n77d_30kHz_SISO_NTNV_15MHz_CP-OFDM 64 QAM_3500.01MHz_Outer_Full



n77d_30kHz_SISO_NTNV_15MHz_CP-OFDM 64 QAM_3542.49MHz_Outer_Full

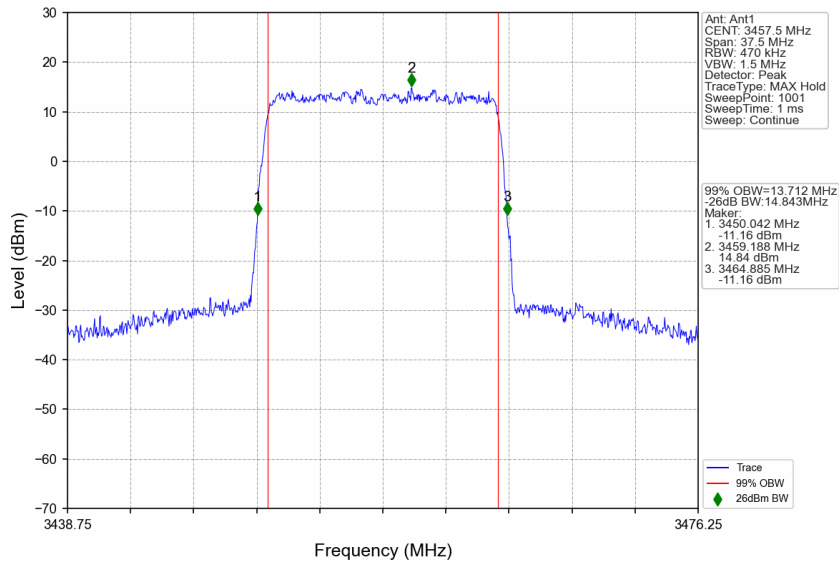


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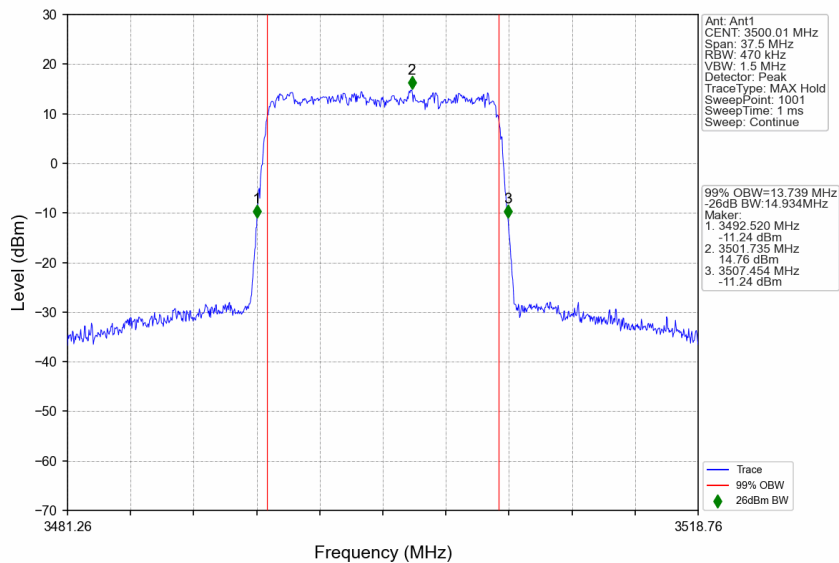
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n77d_30kHz_SISO_NTNV_15MHz_CP-OFDM 256 QAM_3500.01MHz_Outer_Full

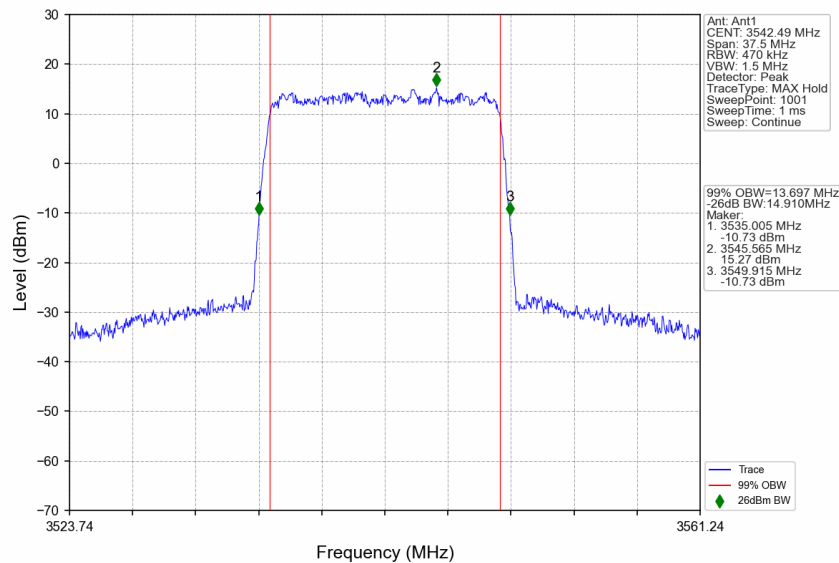


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n77d_30kHz_SISO_NTNV_15MHz_CP-OFDM 256 QAM_3542.49MHz_Outer_Full



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Wireless Laboratory

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4.10 30k_SISO_20MHz_NTNV

4.10.1 Test Result

5G NR n77d SCS=30kHz SISO 20MHz NTNv						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3460.02	Outer_Full	18.12	19.42	/	Pass
	3500.01	Outer_Full	18.16	19.41	/	Pass
	3540	Outer_Full	18.12	19.36	/	Pass
DFT-s-OFDM QPSK	3460.02	Outer_Full	18.07	19.44	/	Pass
	3500.01	Outer_Full	18.07	19.42	/	Pass
	3540	Outer_Full	18.05	19.38	/	Pass
DFT-s-OFDM 16 QAM	3460.02	Outer_Full	18.08	19.40	/	Pass
	3500.01	Outer_Full	18.08	19.45	/	Pass
	3540	Outer_Full	18.07	19.46	/	Pass
DFT-s-OFDM 64 QAM	3460.02	Outer_Full	18.07	19.44	/	Pass
	3500.01	Outer_Full	18.13	19.47	/	Pass
	3540	Outer_Full	18.08	19.49	/	Pass
DFT-s-OFDM 256 QAM	3460.02	Outer_Full	18.03	19.45	/	Pass
	3500.01	Outer_Full	18.03	19.36	/	Pass
	3540	Outer_Full	18.02	19.47	/	Pass
CP-OFDM QPSK	3460.02	Outer_Full	18.37	19.80	/	Pass
	3500.01	Outer_Full	18.39	19.77	/	Pass
	3540	Outer_Full	18.36	20.35	/	Pass
CP-OFDM 16 QAM	3460.02	Outer_Full	18.36	19.84	/	Pass
	3500.01	Outer_Full	18.42	19.87	/	Pass
	3540	Outer_Full	18.40	19.85	/	Pass
CP-OFDM 64 QAM	3460.02	Outer_Full	18.41	19.87	/	Pass
	3500.01	Outer_Full	18.42	19.75	/	Pass
	3540	Outer_Full	18.39	19.77	/	Pass
CP-OFDM 256 QAM	3460.02	Outer_Full	18.39	19.69	/	Pass
	3500.01	Outer_Full	18.34	19.77	/	Pass
	3540	Outer_Full	18.34	19.75	/	Pass

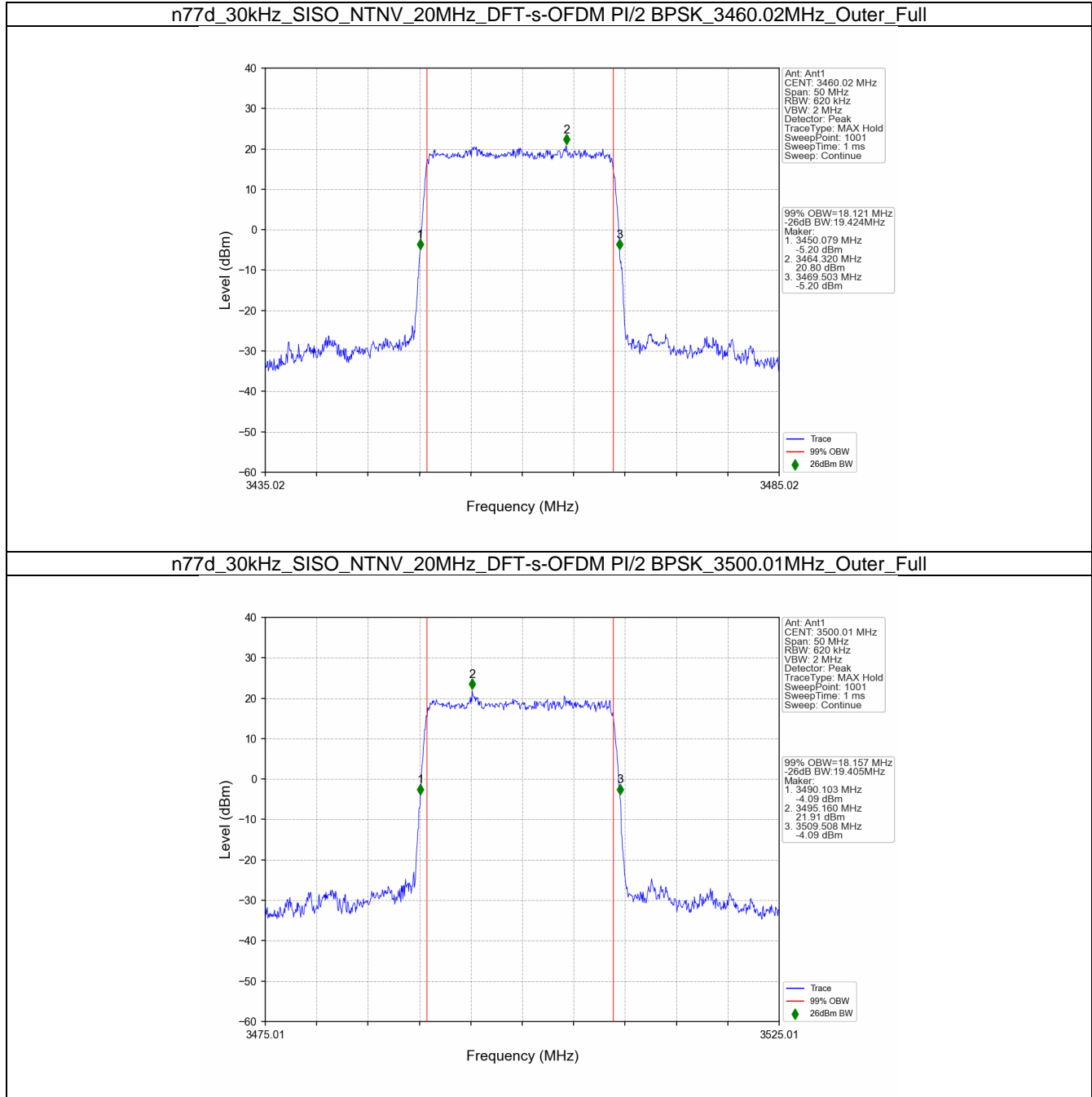


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4.10.2 Test Graph

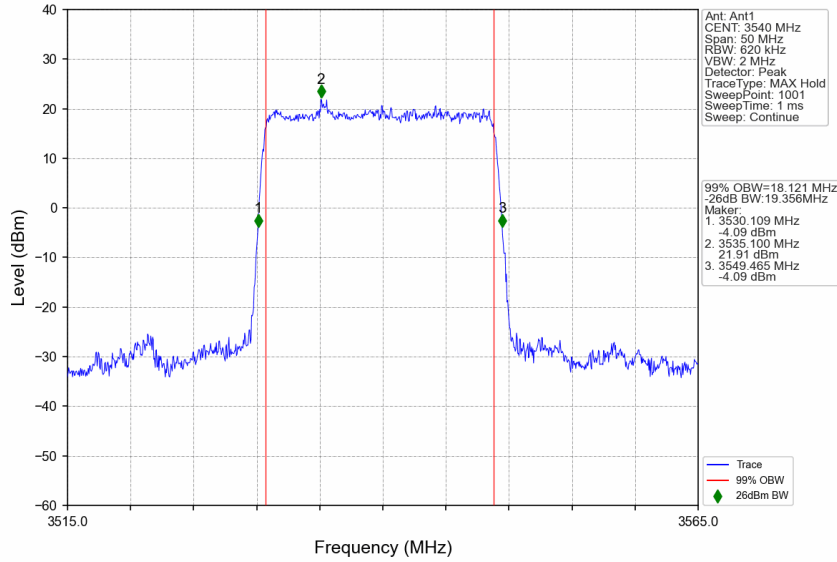


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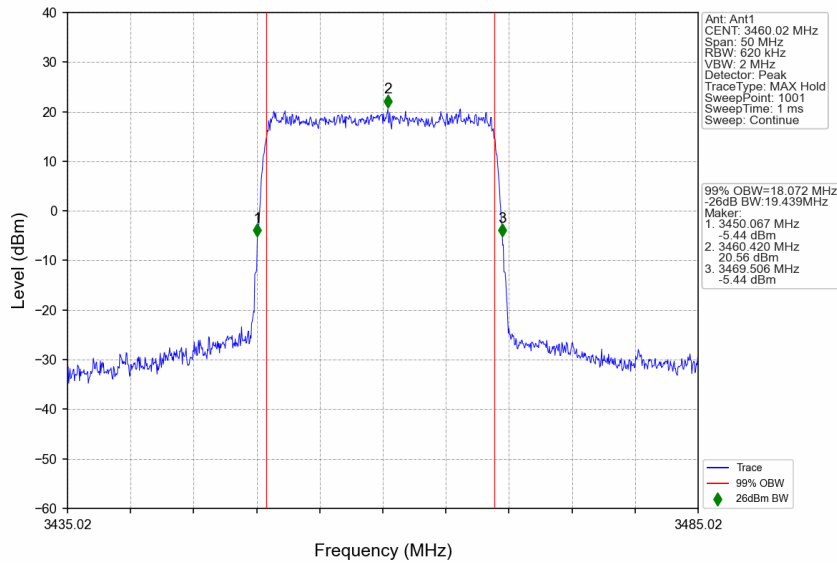
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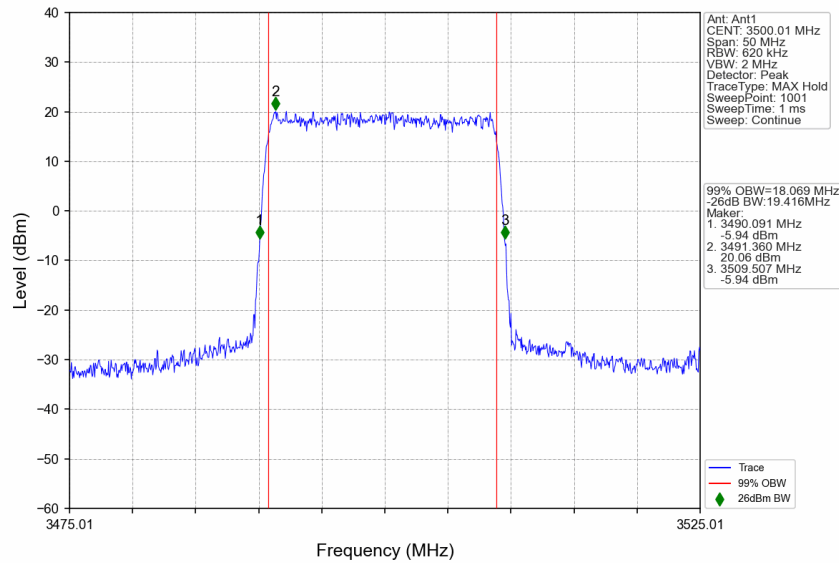


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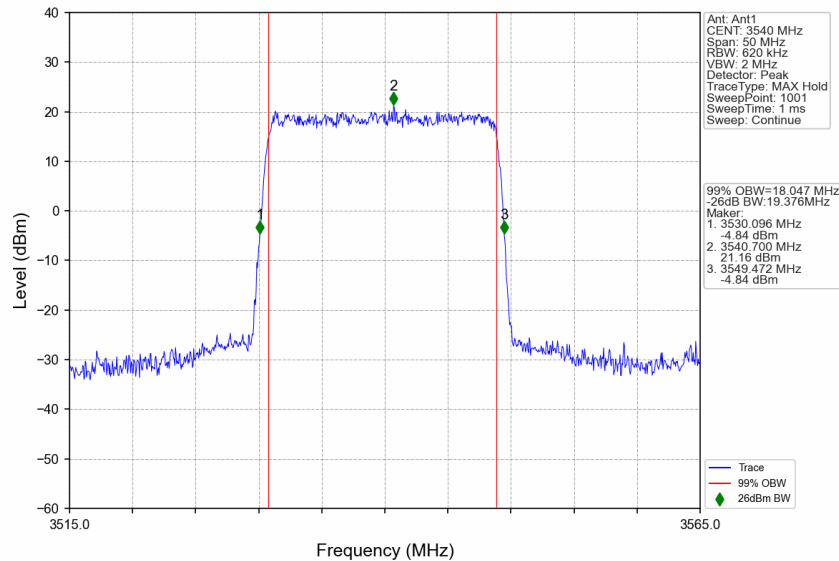
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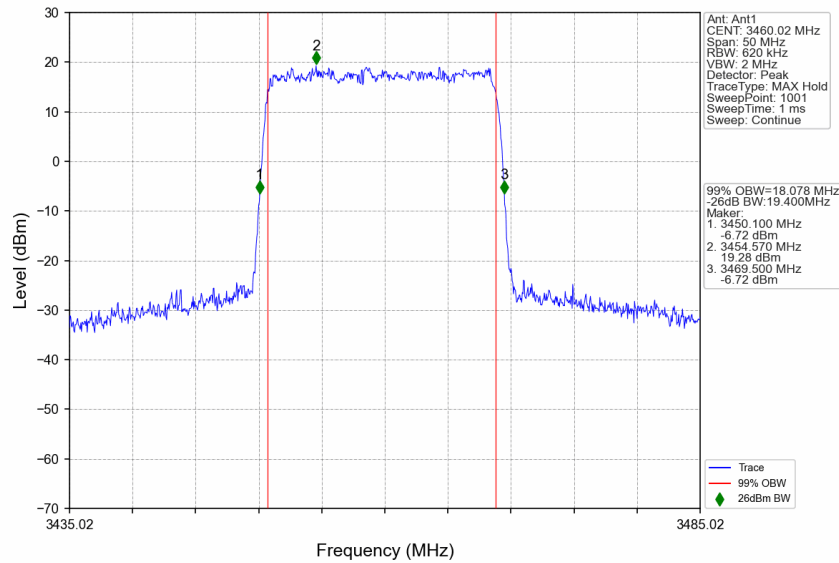


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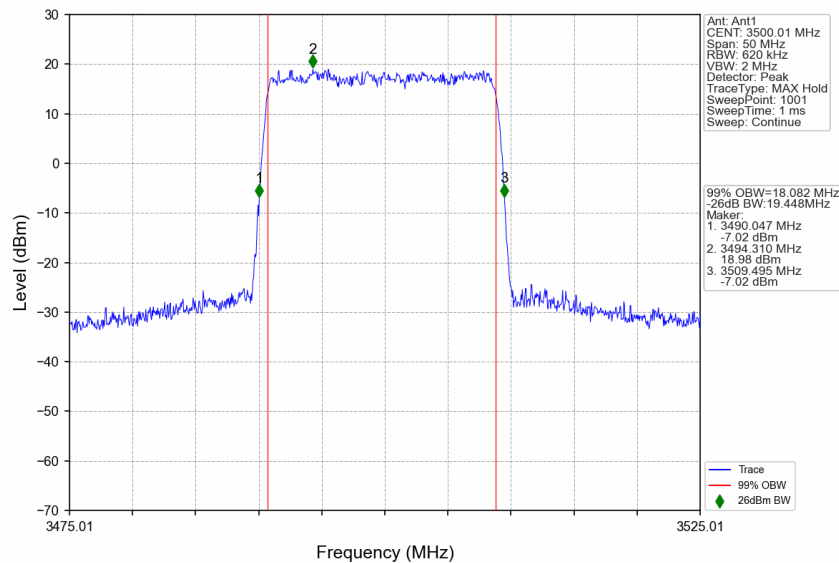
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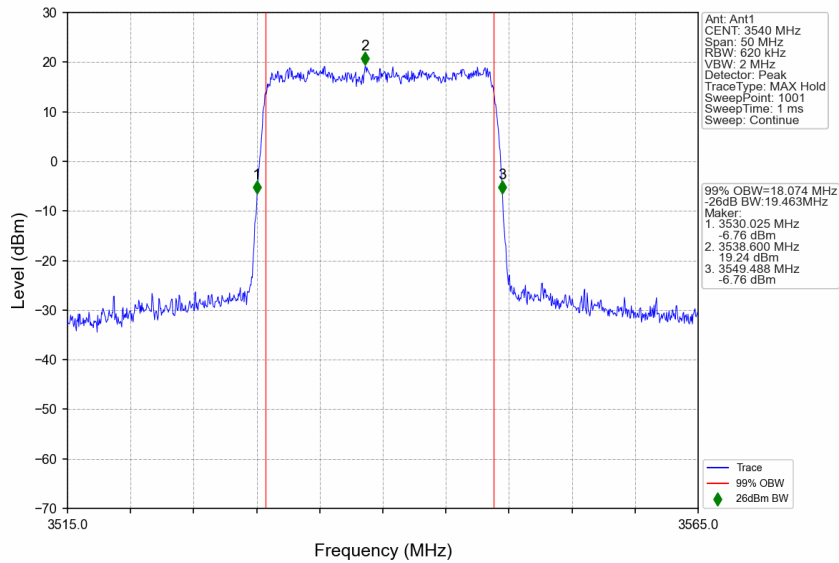


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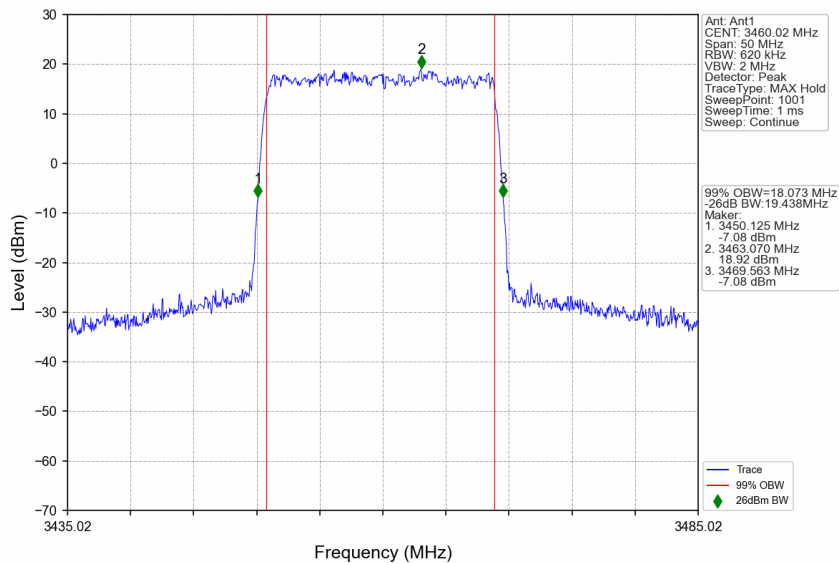
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n77d_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 16 QAM_3540MHz_Outer_Full



n77d_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 64 QAM_3460.02MHz_Outer_Full

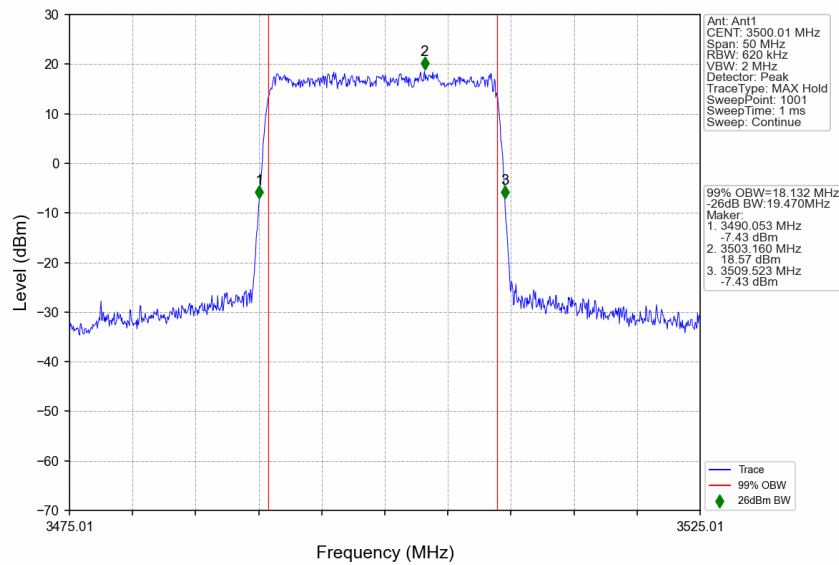


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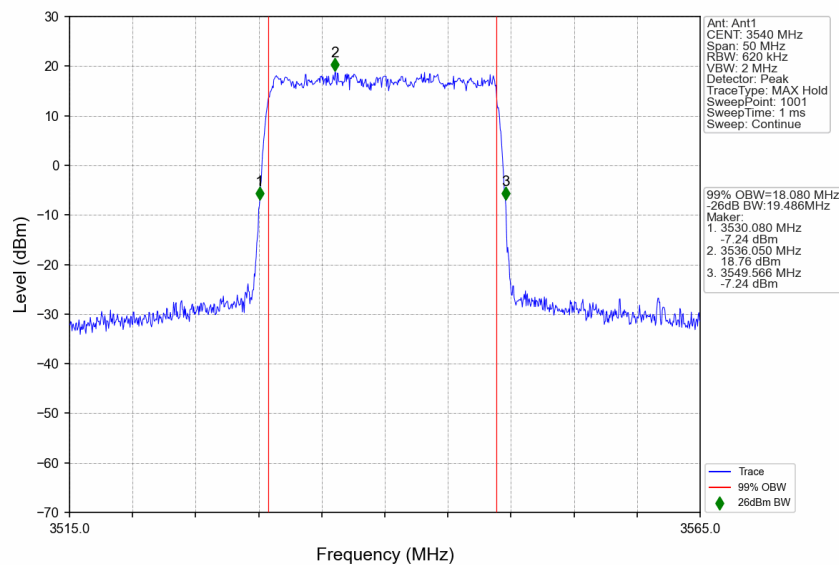
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n77d_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 64 QAM_3540MHz_Outer_Full

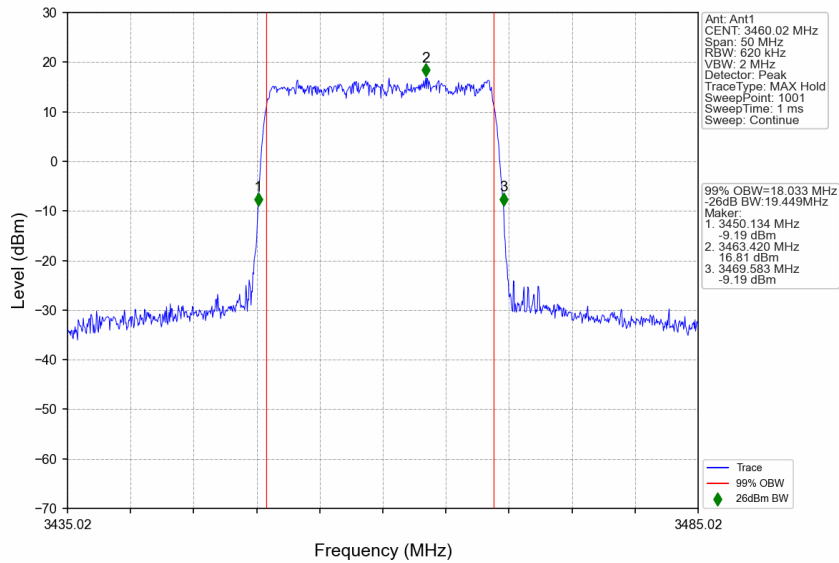


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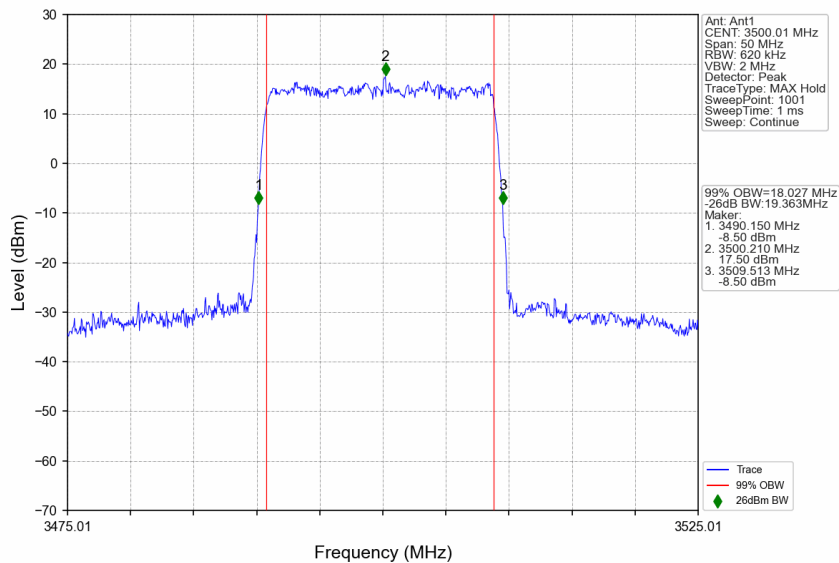
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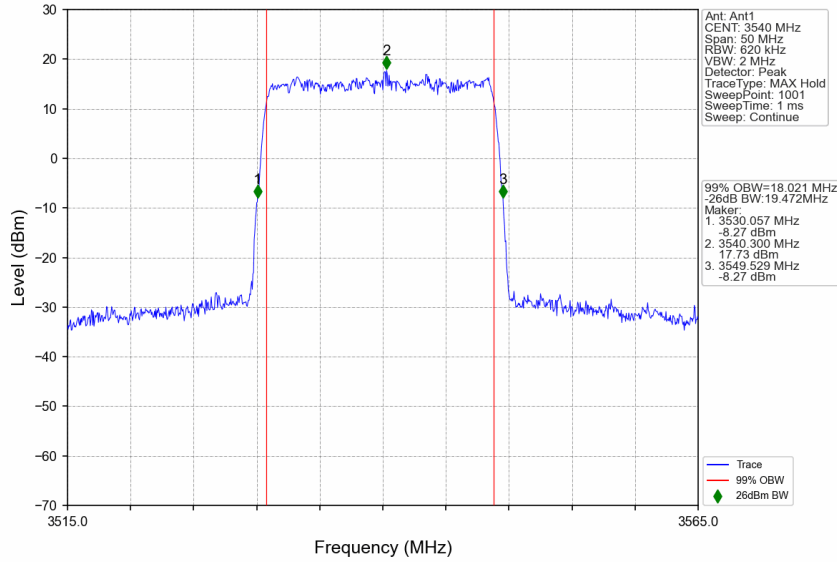


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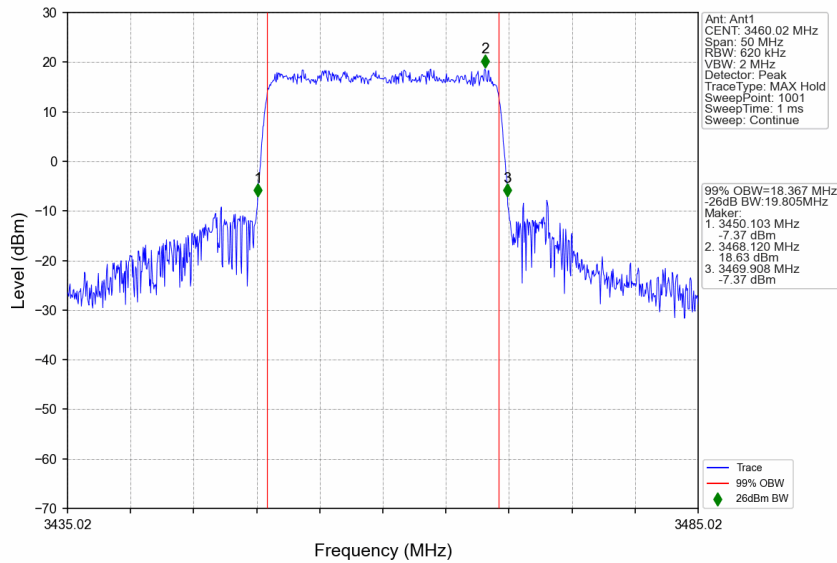
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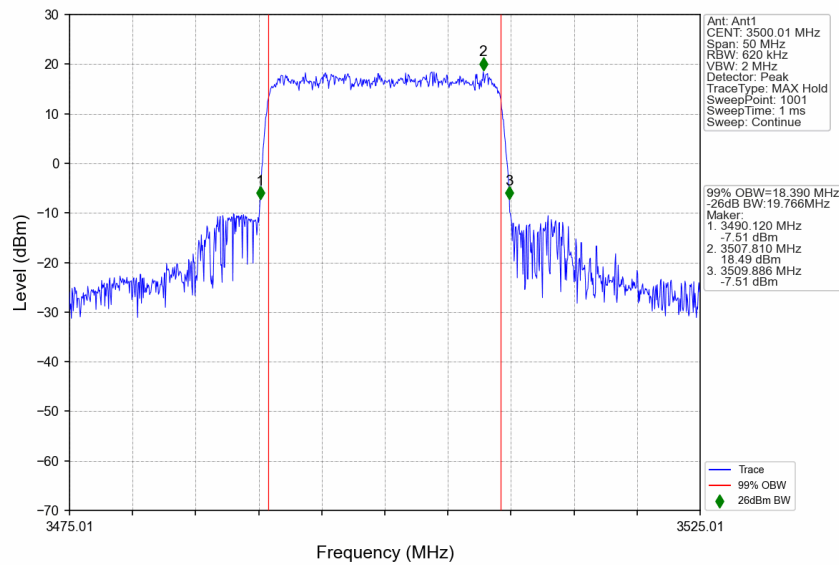


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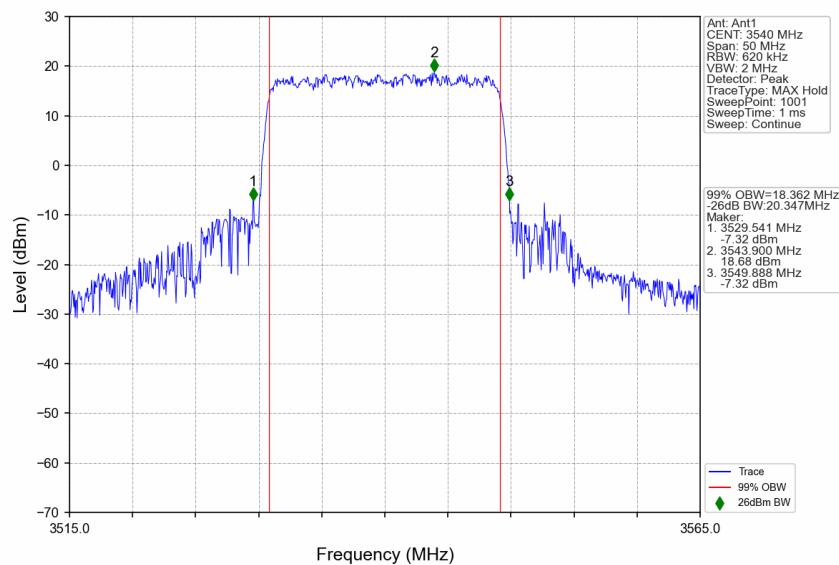
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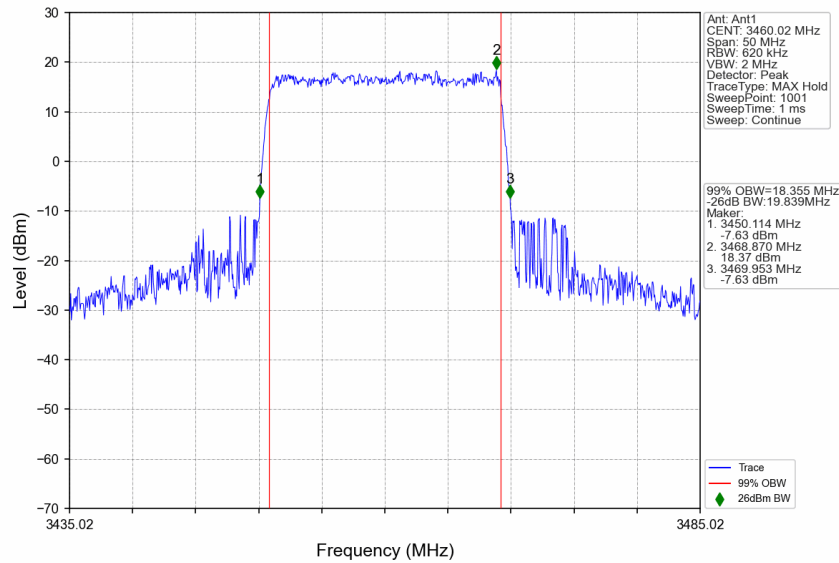


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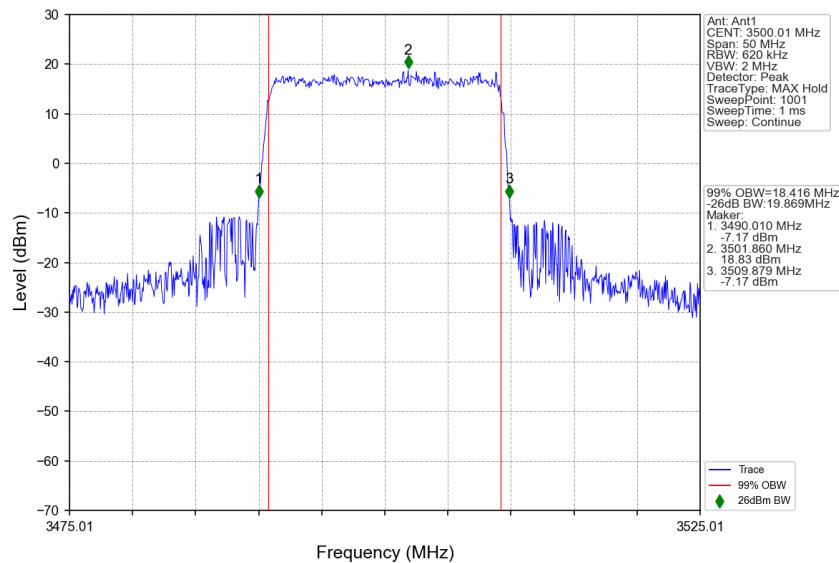
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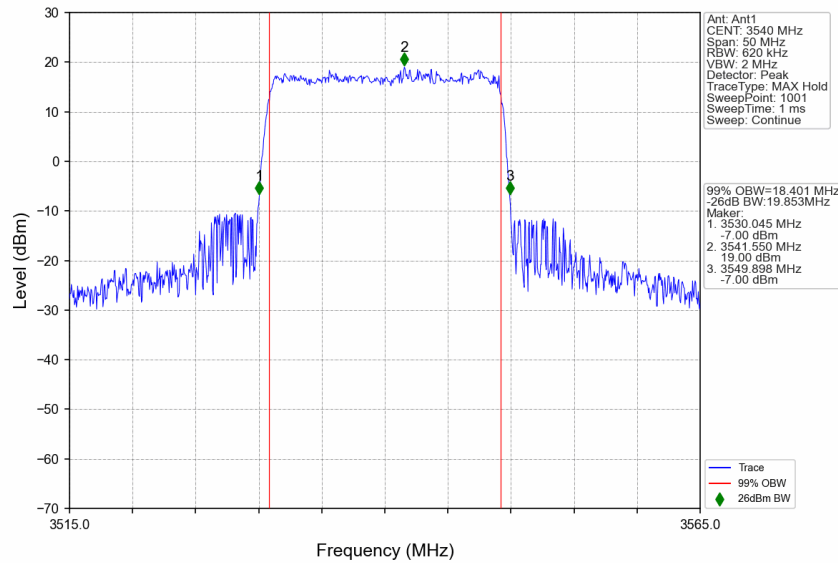


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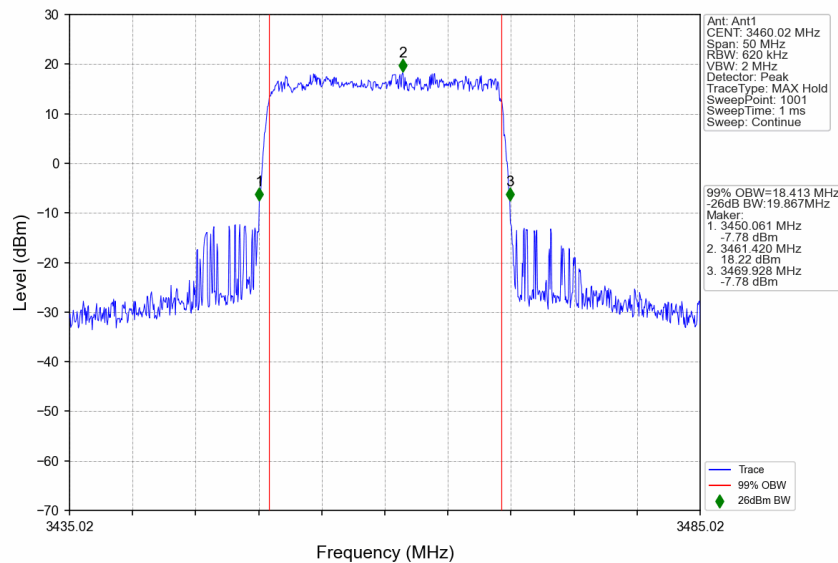
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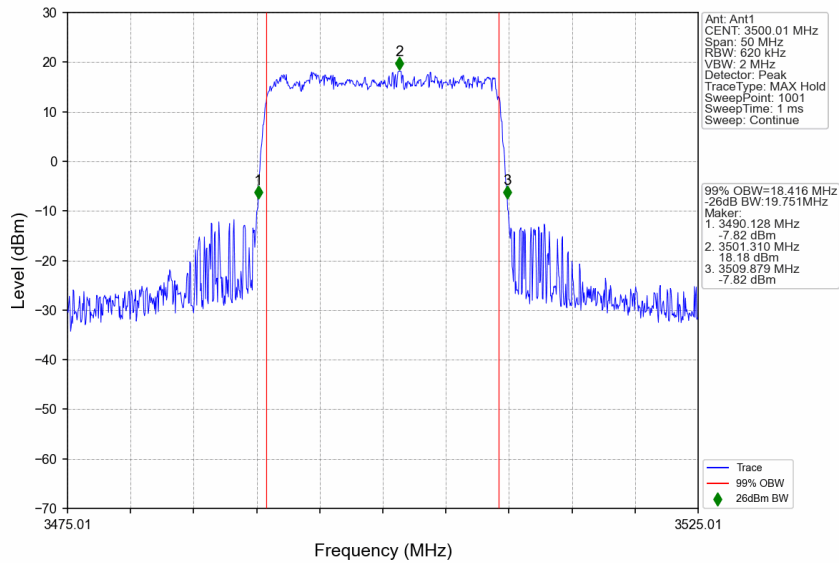


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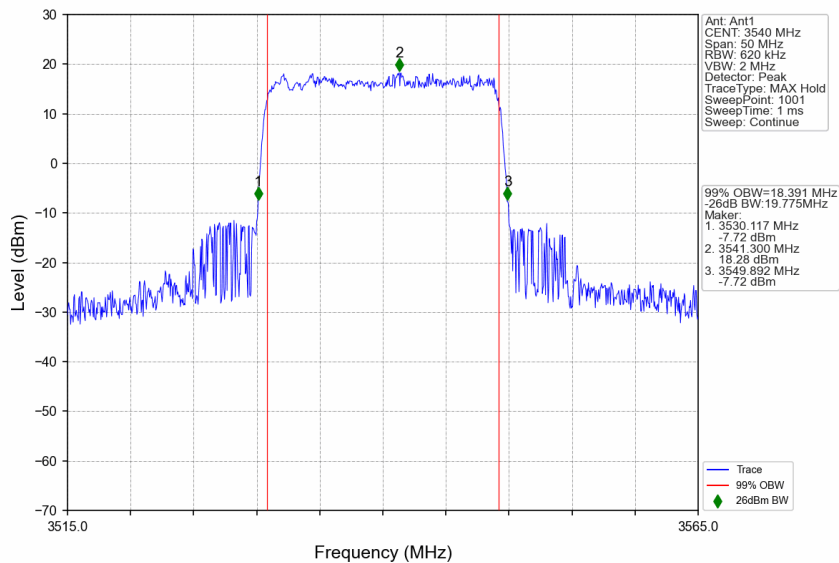
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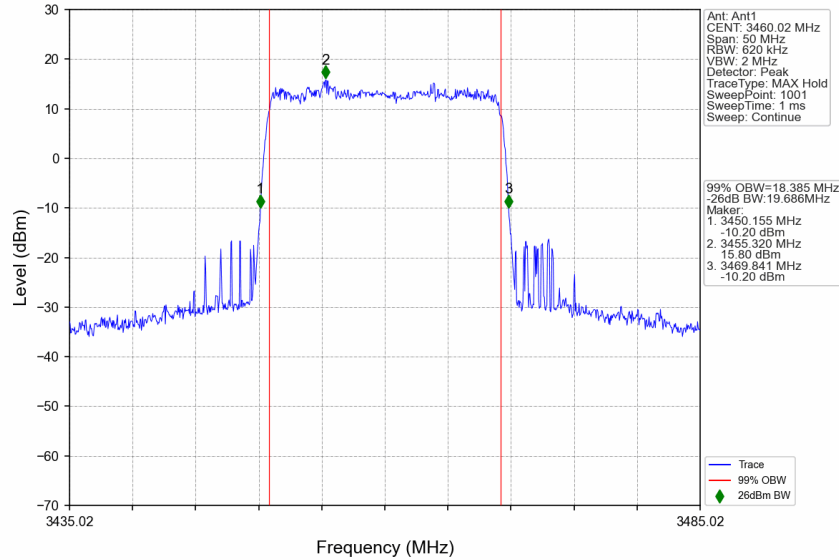


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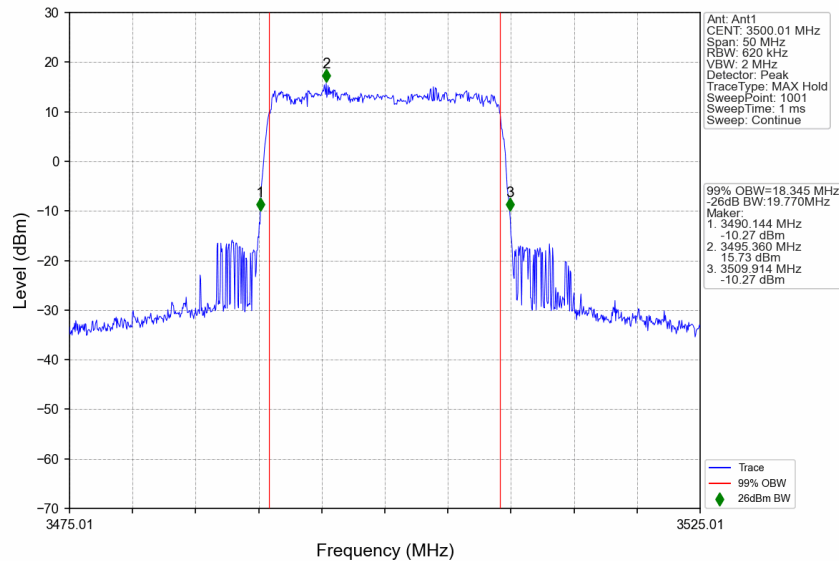
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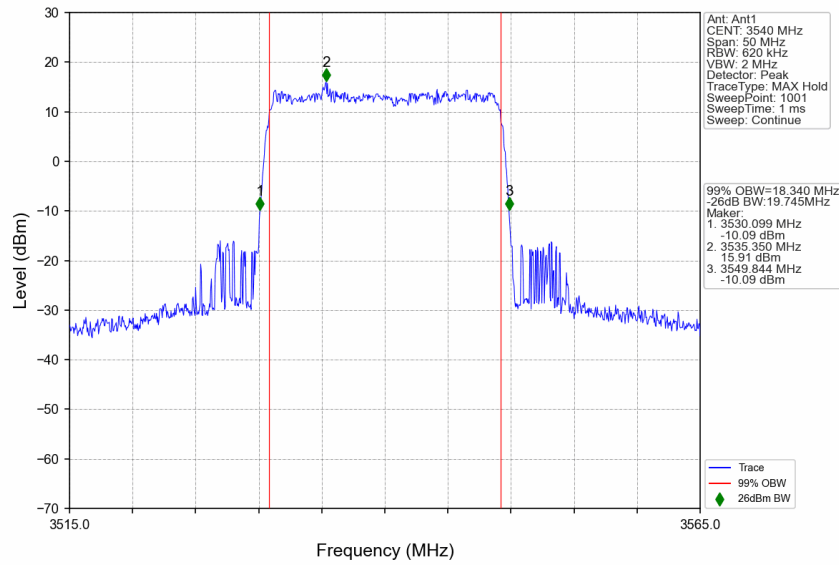


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4.11 30k_SISO_25MHz_NTNV

4.11.1 Test Result

5G NR n77d SCS=30kHz SISO 25MHz NTNv						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3462.51	Outer_Full	23.12	24.71	/	Pass
	3500.01	Outer_Full	23.13	24.70	/	Pass
	3537.48	Outer_Full	23.16	24.79	/	Pass
DFT-s-OFDM QPSK	3462.51	Outer_Full	23.11	24.73	/	Pass
	3500.01	Outer_Full	23.09	24.71	/	Pass
	3537.48	Outer_Full	23.07	24.72	/	Pass
DFT-s-OFDM 16 QAM	3462.51	Outer_Full	23.10	24.82	/	Pass
	3500.01	Outer_Full	23.11	24.70	/	Pass
	3537.48	Outer_Full	23.14	24.79	/	Pass
DFT-s-OFDM 64 QAM	3462.51	Outer_Full	23.13	24.74	/	Pass
	3500.01	Outer_Full	23.14	24.77	/	Pass
	3537.48	Outer_Full	23.11	24.74	/	Pass
DFT-s-OFDM 256 QAM	3462.51	Outer_Full	23.05	24.66	/	Pass
	3500.01	Outer_Full	23.05	24.70	/	Pass
	3537.48	Outer_Full	23.06	24.69	/	Pass
CP-OFDM QPSK	3462.51	Outer_Full	23.39	25.08	/	Pass
	3500.01	Outer_Full	23.36	25.10	/	Pass
	3537.48	Outer_Full	23.40	25.01	/	Pass
CP-OFDM 16 QAM	3462.51	Outer_Full	23.44	25.09	/	Pass
	3500.01	Outer_Full	23.45	25.05	/	Pass
	3537.48	Outer_Full	23.47	25.07	/	Pass
CP-OFDM 64 QAM	3462.51	Outer_Full	23.45	25.07	/	Pass
	3500.01	Outer_Full	23.45	25.07	/	Pass
	3537.48	Outer_Full	23.42	25.07	/	Pass
CP-OFDM 256 QAM	3462.51	Outer_Full	23.39	25.12	/	Pass
	3500.01	Outer_Full	23.40	25.14	/	Pass
	3537.48	Outer_Full	23.41	25.13	/	Pass

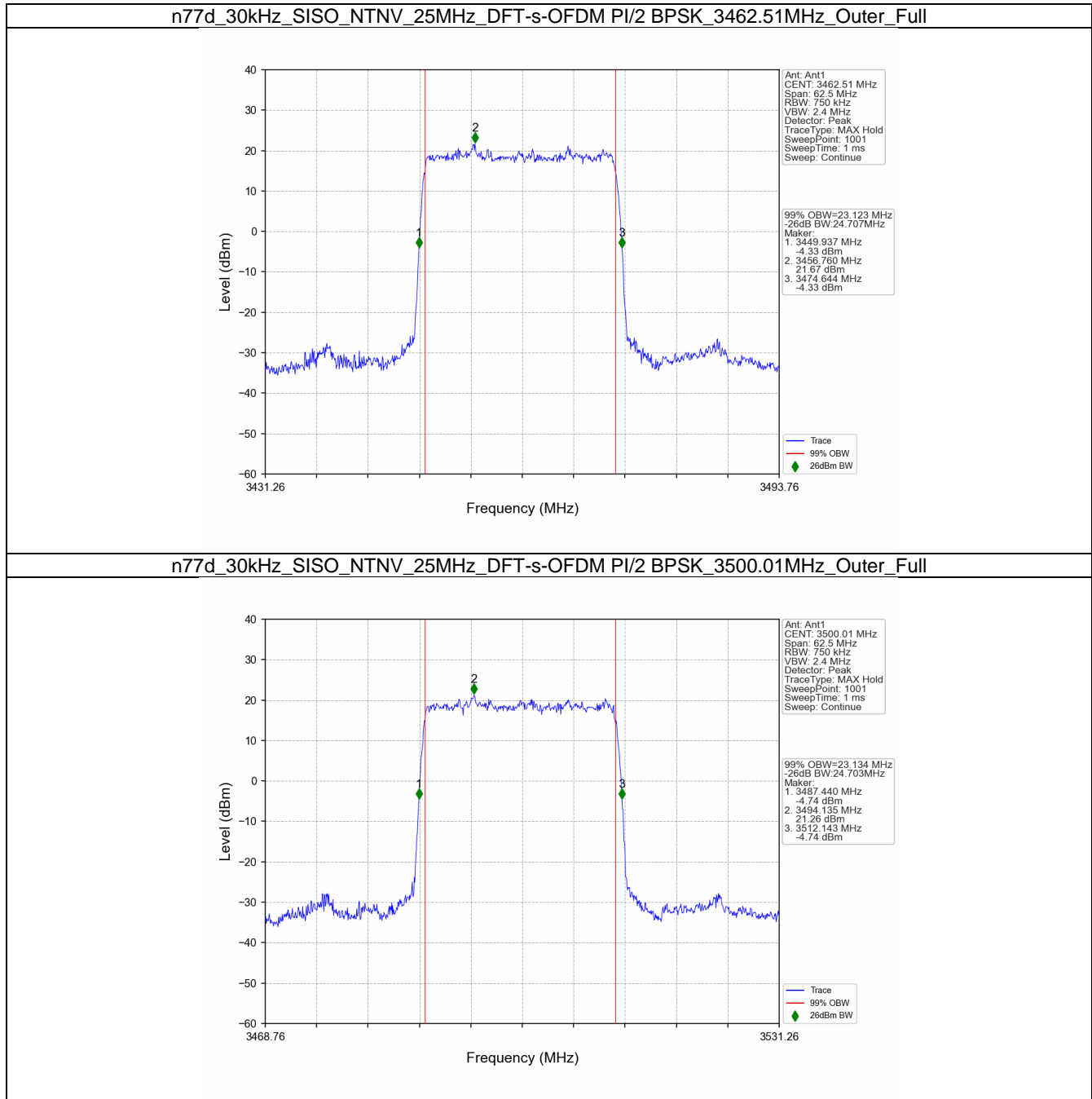


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4.11.2 Test Graph

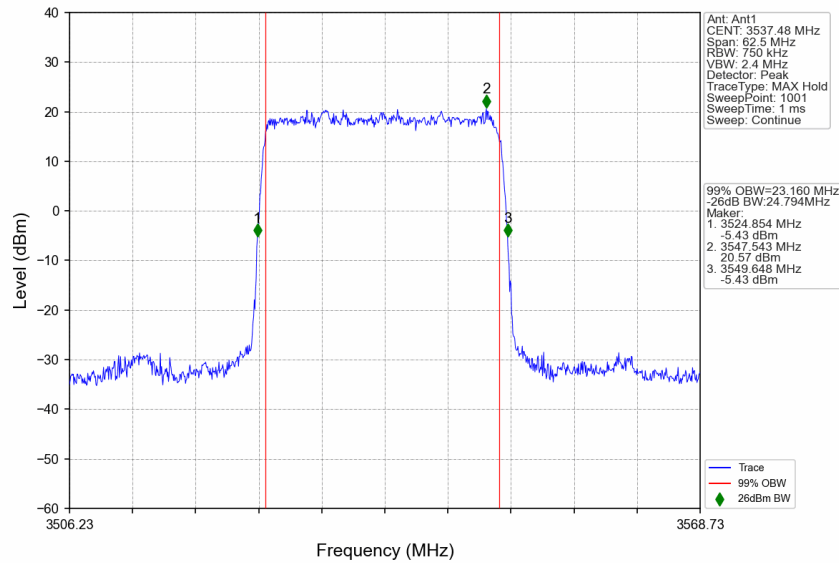


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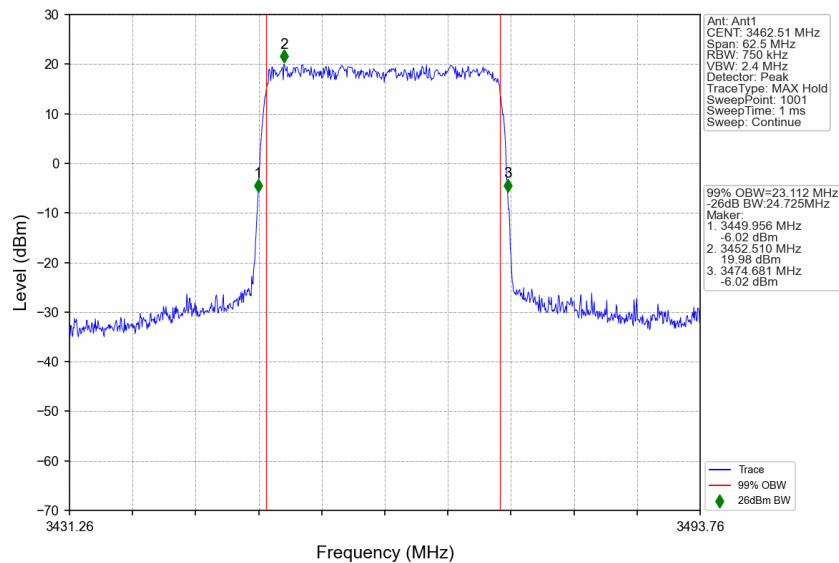
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n77d_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM PI/2 BPSK_3537.48MHz_Outer_Full



n77d_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM QPSK_3462.51MHz_Outer_Full

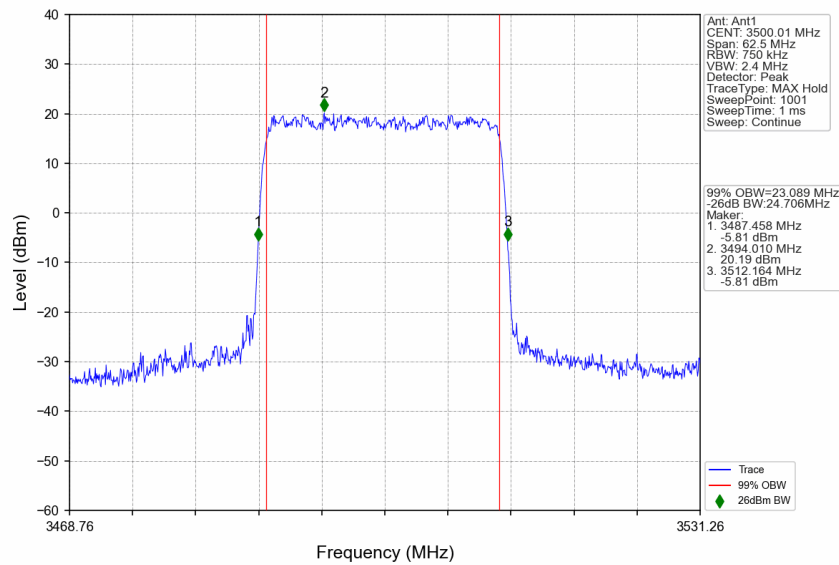


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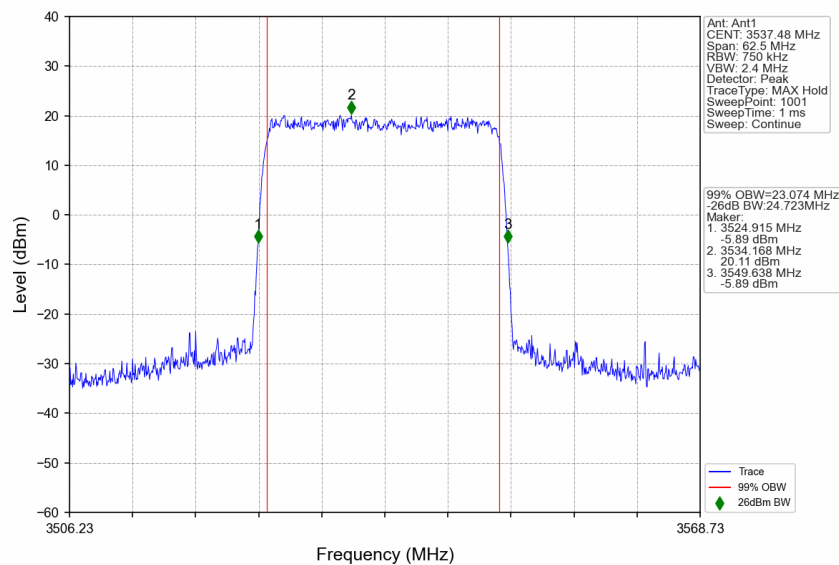
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n77d_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM QPSK_3500.01MHz_Outer_Full



n77d_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM QPSK_3537.48MHz_Outer_Full

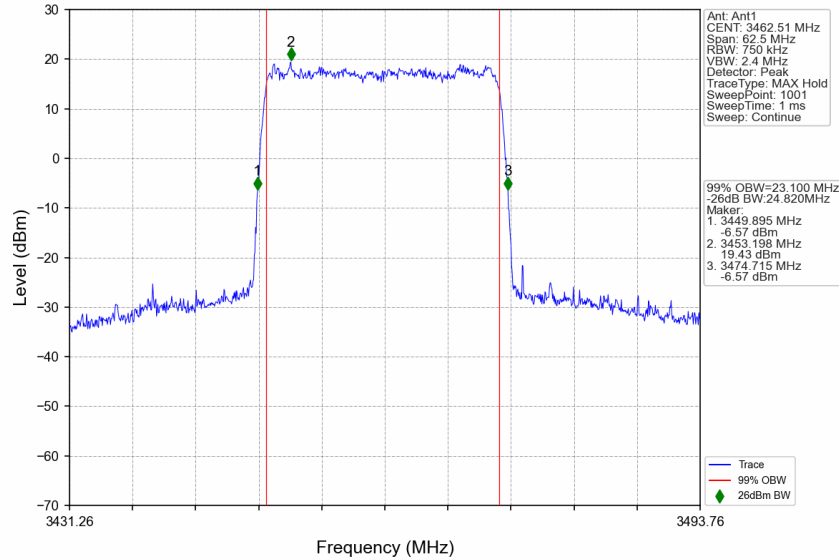


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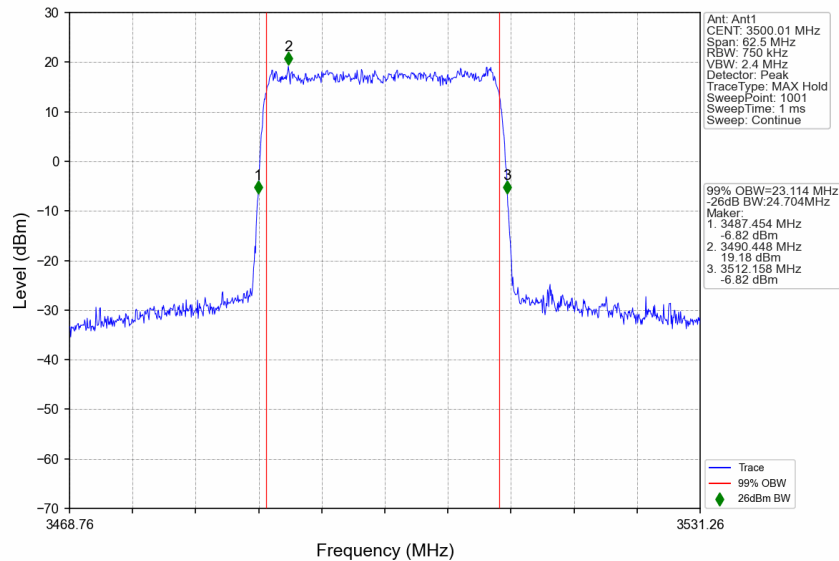
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n77d_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM 16 QAM_3462.51MHz_Outer_Full



n77d_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM 16 QAM_3500.01MHz_Outer_Full

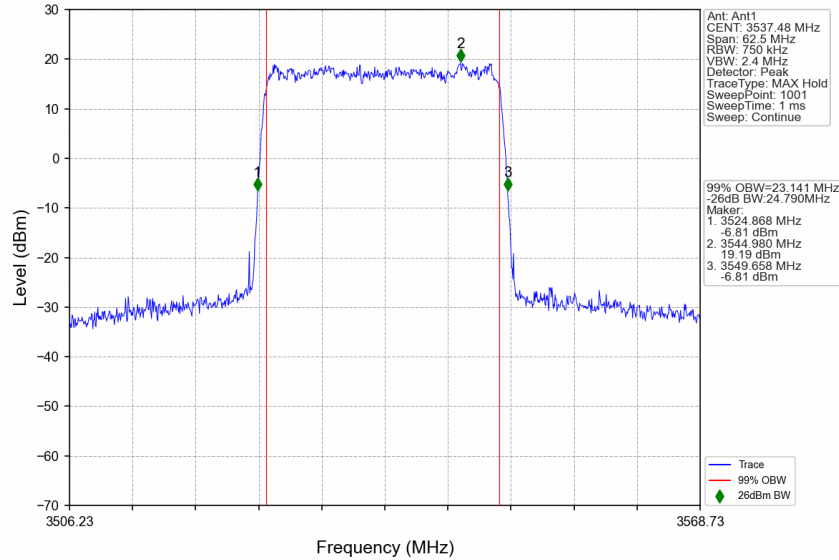


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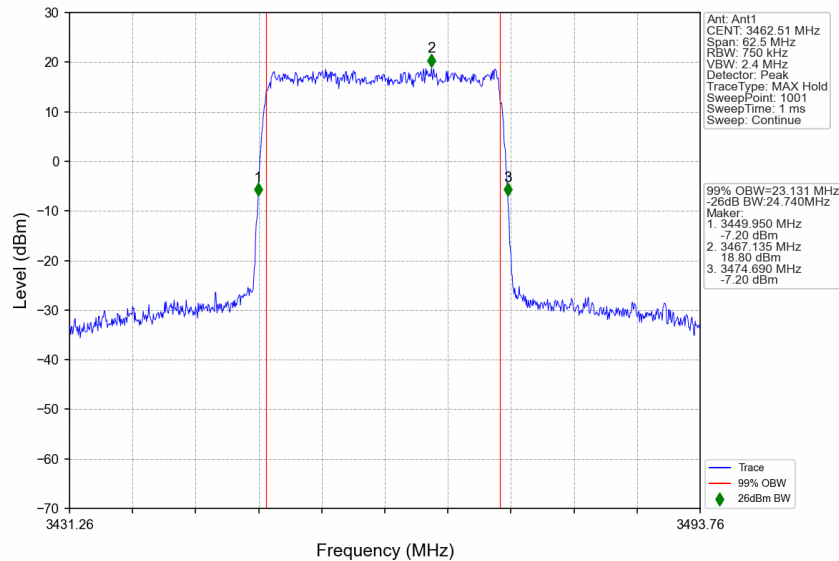
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n77d_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM 16 QAM_3537.48MHz_Outer_Full



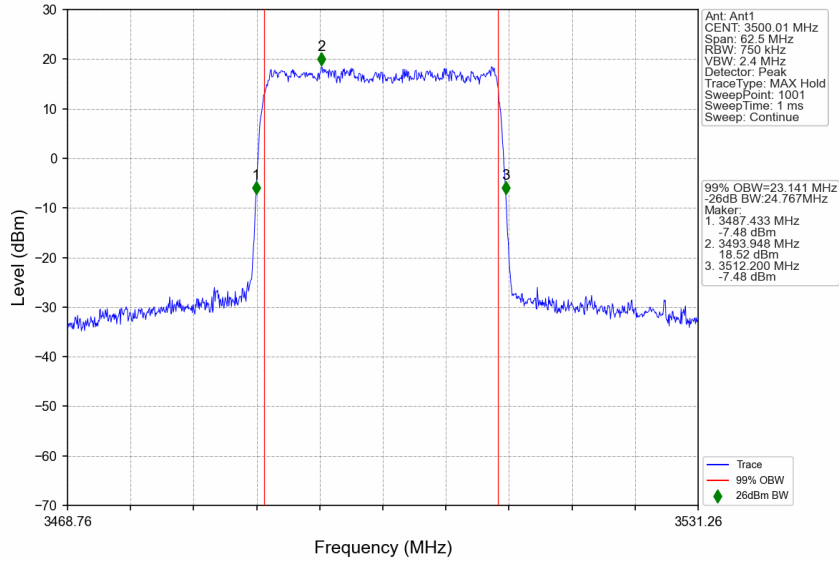
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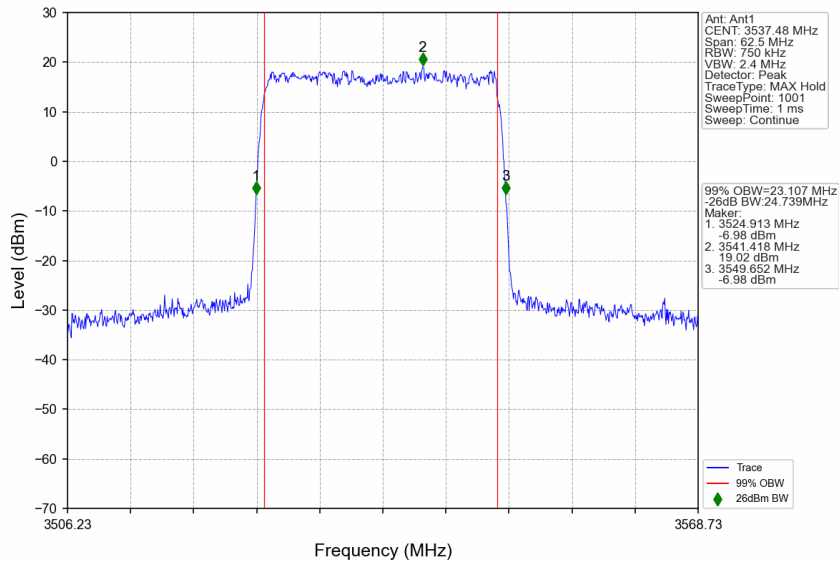
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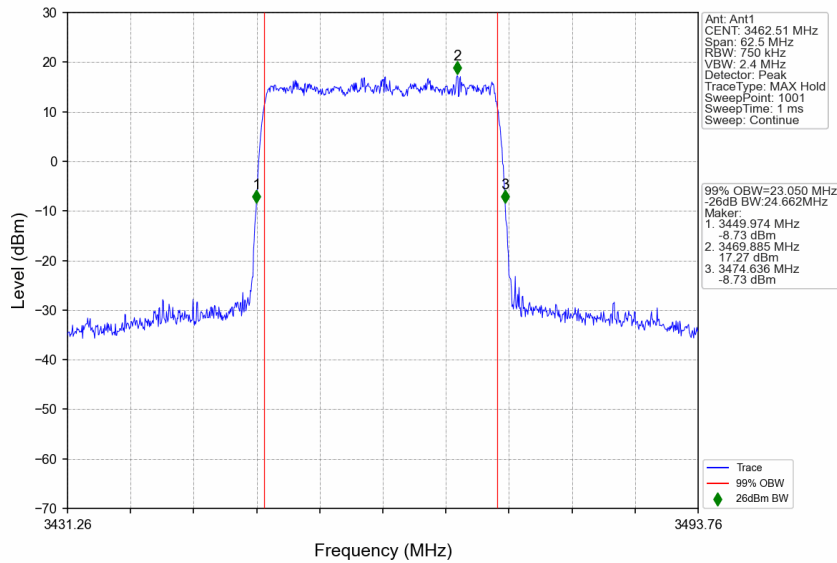


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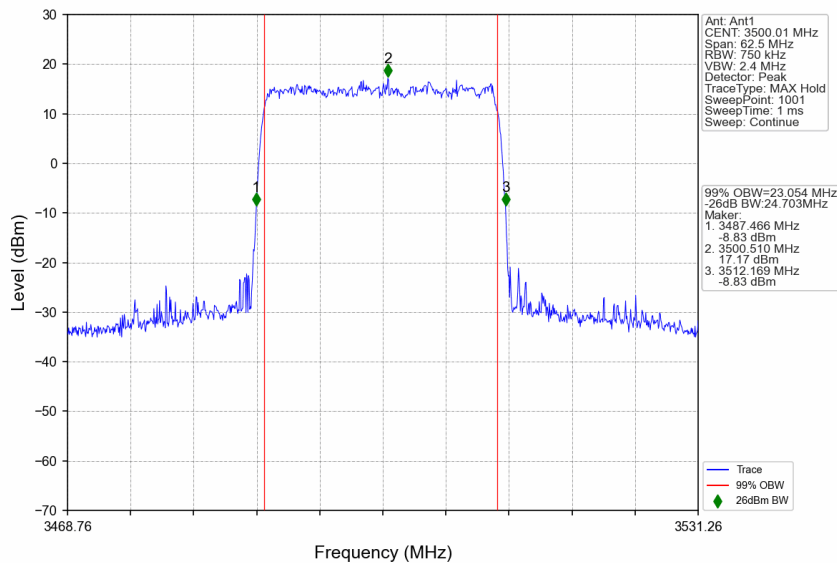
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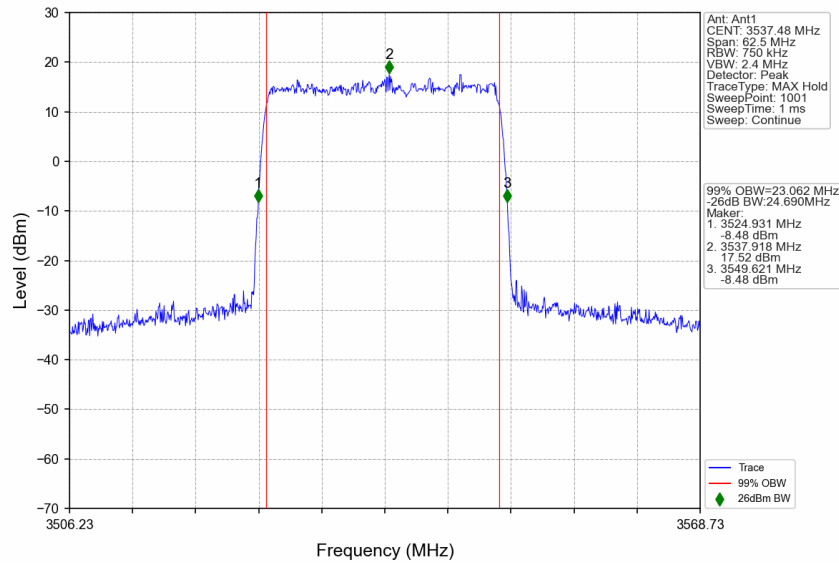


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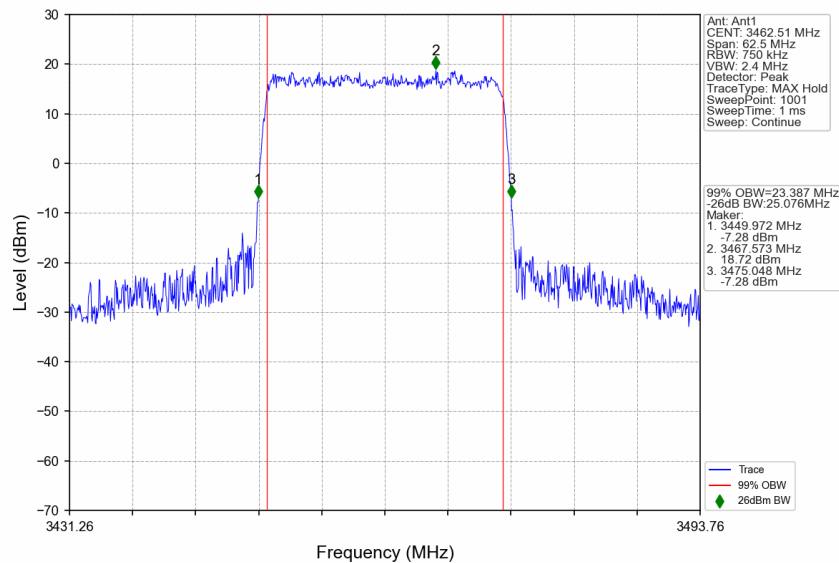
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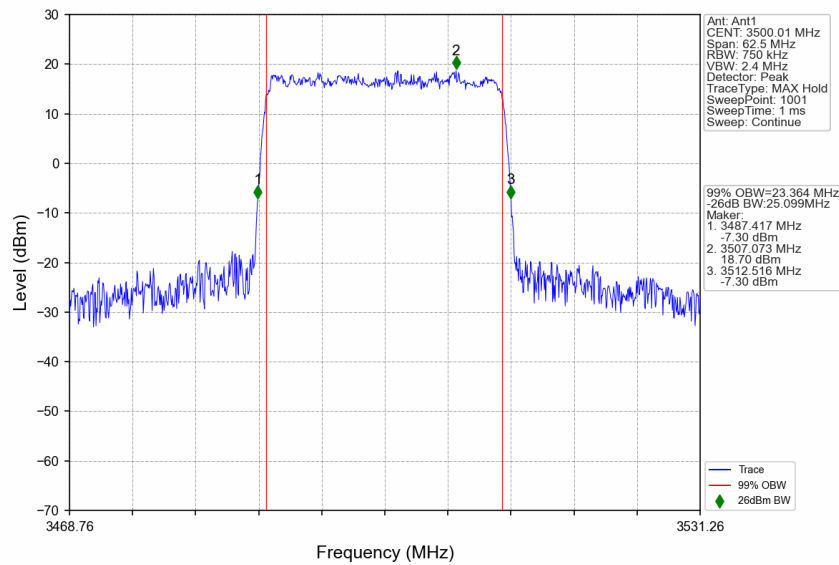
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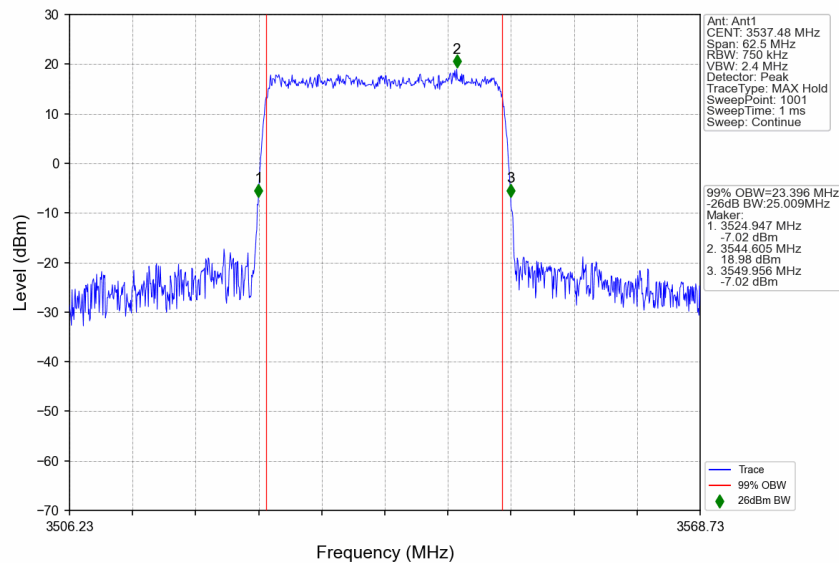
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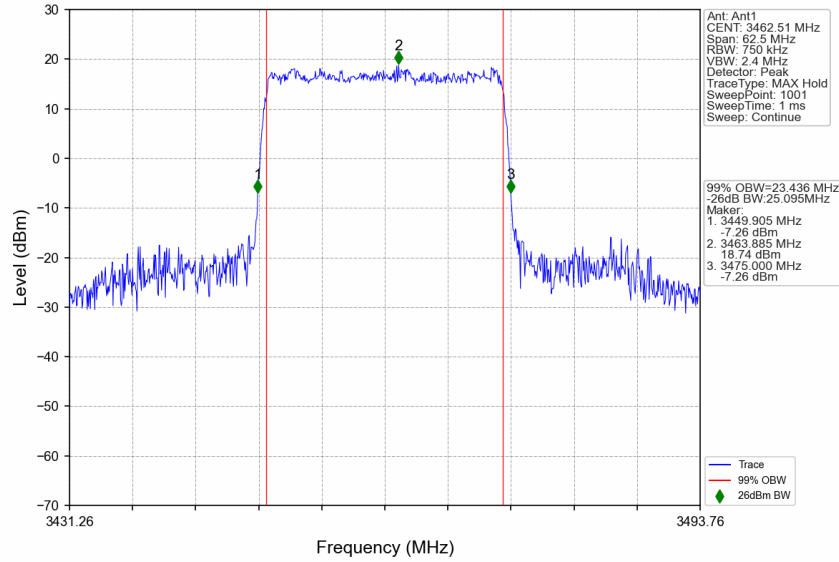


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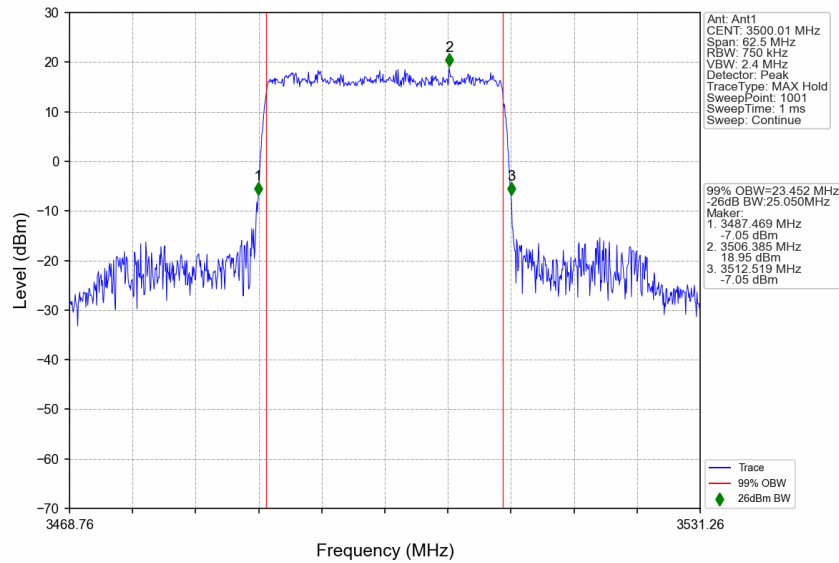
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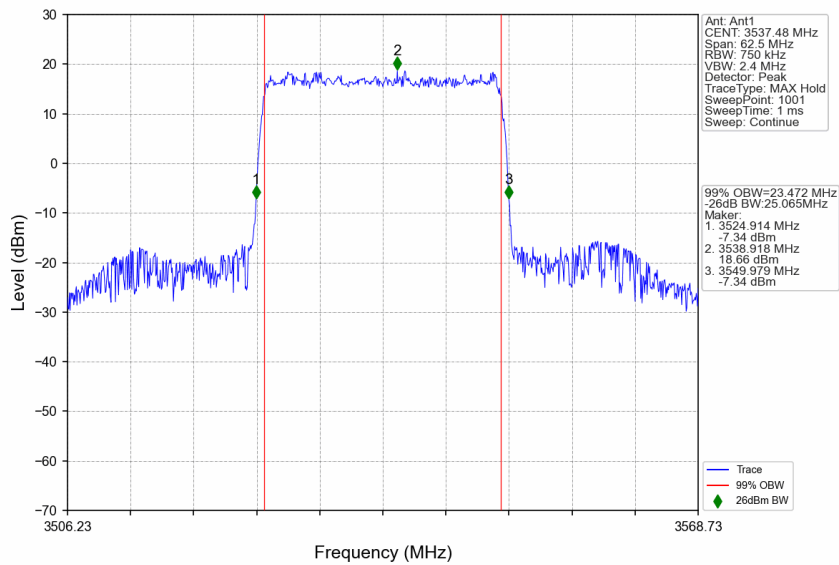


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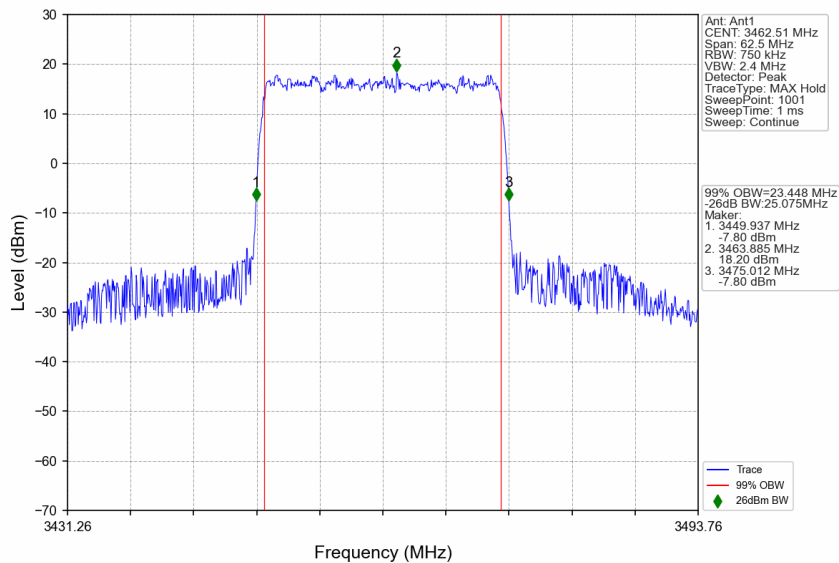
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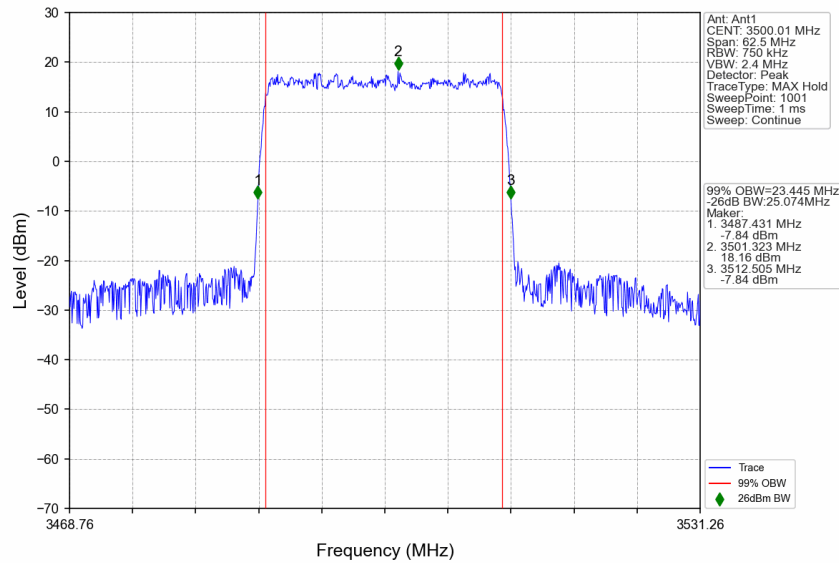


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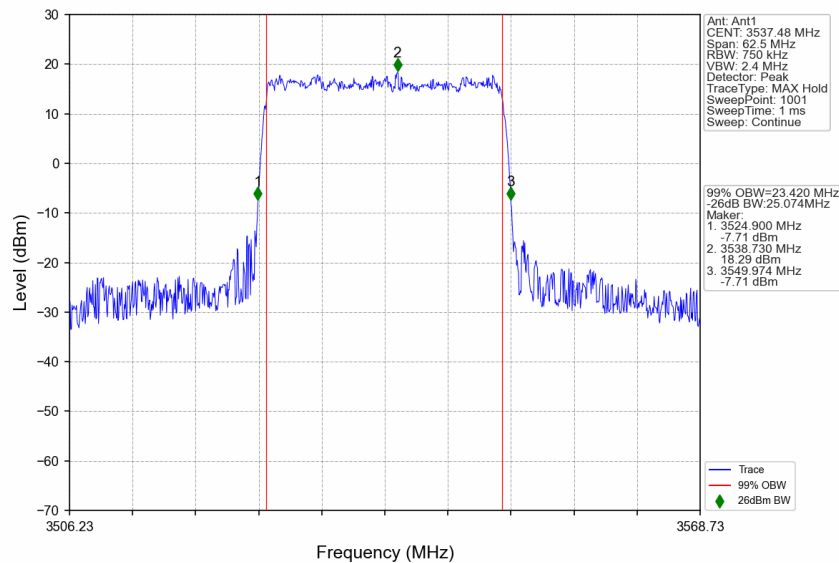
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n77d_30kHz_SISO_NTNV_25MHz_CP-OFDM 64 QAM_3500.01MHz_Outer_Full



n77d_30kHz_SISO_NTNV_25MHz_CP-OFDM 64 QAM_3537.48MHz_Outer_Full

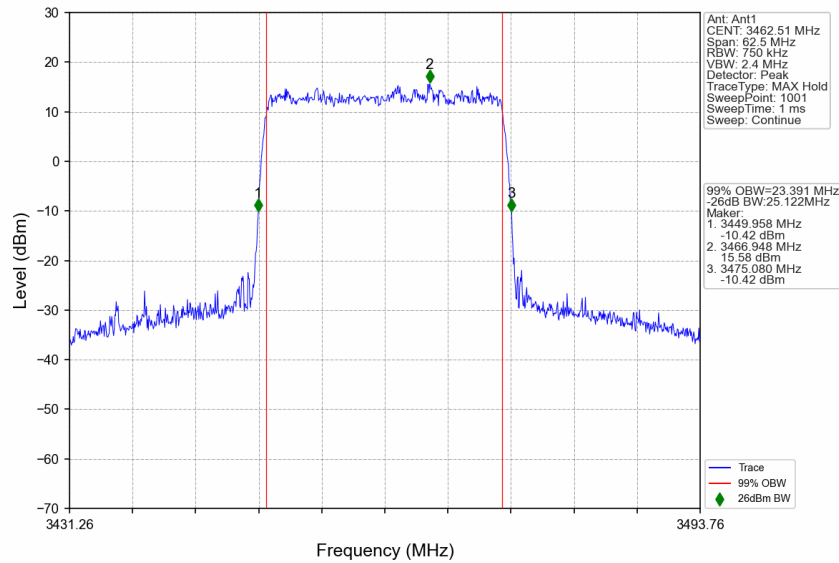


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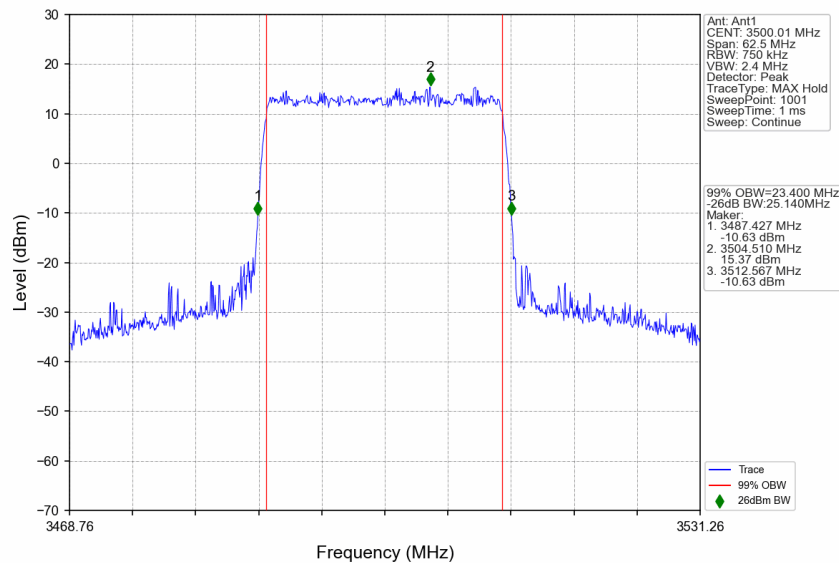
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n77d_30kHz_SISO_NTNV_25MHz_CP-OFDM 256 QAM_3462.51MHz_Outer_Full



n77d_30kHz_SISO_NTNV_25MHz_CP-OFDM 256 QAM_3500.01MHz_Outer_Full

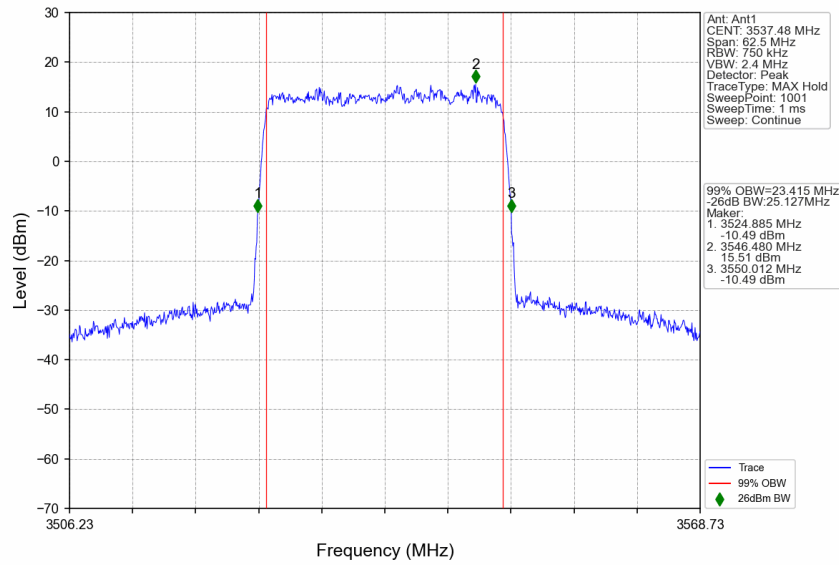


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n77d_30kHz_SISO_NTNV_25MHz_CP-OFDM 256 QAM_3537.48MHz_Outer_Full



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4.12 30k_SISO_30MHz_NTNV

4.12.1 Test Result

5G NR n77d SCS=30kHz SISO 30MHz NTNv						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3465	Outer_Full	27.15	29.20	/	Pass
	3500.01	Outer_Full	27.12	29.12	/	Pass
	3534.99	Outer_Full	27.13	29.05	/	Pass
DFT-s-OFDM QPSK	3465	Outer_Full	27.05	29.25	/	Pass
	3500.01	Outer_Full	27.11	29.03	/	Pass
	3534.99	Outer_Full	27.12	29.21	/	Pass
DFT-s-OFDM 16 QAM	3465	Outer_Full	27.18	29.09	/	Pass
	3500.01	Outer_Full	27.22	29.16	/	Pass
	3534.99	Outer_Full	27.13	29.06	/	Pass
DFT-s-OFDM 64 QAM	3465	Outer_Full	27.11	29.11	/	Pass
	3500.01	Outer_Full	27.13	29.11	/	Pass
	3534.99	Outer_Full	27.15	29.14	/	Pass
DFT-s-OFDM 256 QAM	3465	Outer_Full	27.08	29.10	/	Pass
	3500.01	Outer_Full	27.05	29.25	/	Pass
	3534.99	Outer_Full	27.06	29.22	/	Pass
CP-OFDM QPSK	3465	Outer_Full	27.99	30.26	/	Pass
	3500.01	Outer_Full	28.06	30.12	/	Pass
	3534.99	Outer_Full	28.04	30.23	/	Pass
CP-OFDM 16 QAM	3465	Outer_Full	28.12	30.07	/	Pass
	3500.01	Outer_Full	28.07	30.11	/	Pass
	3534.99	Outer_Full	28.11	30.12	/	Pass
CP-OFDM 64 QAM	3465	Outer_Full	27.99	30.13	/	Pass
	3500.01	Outer_Full	28.04	30.09	/	Pass
	3534.99	Outer_Full	28.08	30.04	/	Pass
CP-OFDM 256 QAM	3465	Outer_Full	28.10	30.27	/	Pass
	3500.01	Outer_Full	28.08	30.18	/	Pass
	3534.99	Outer_Full	28.10	30.23	/	Pass

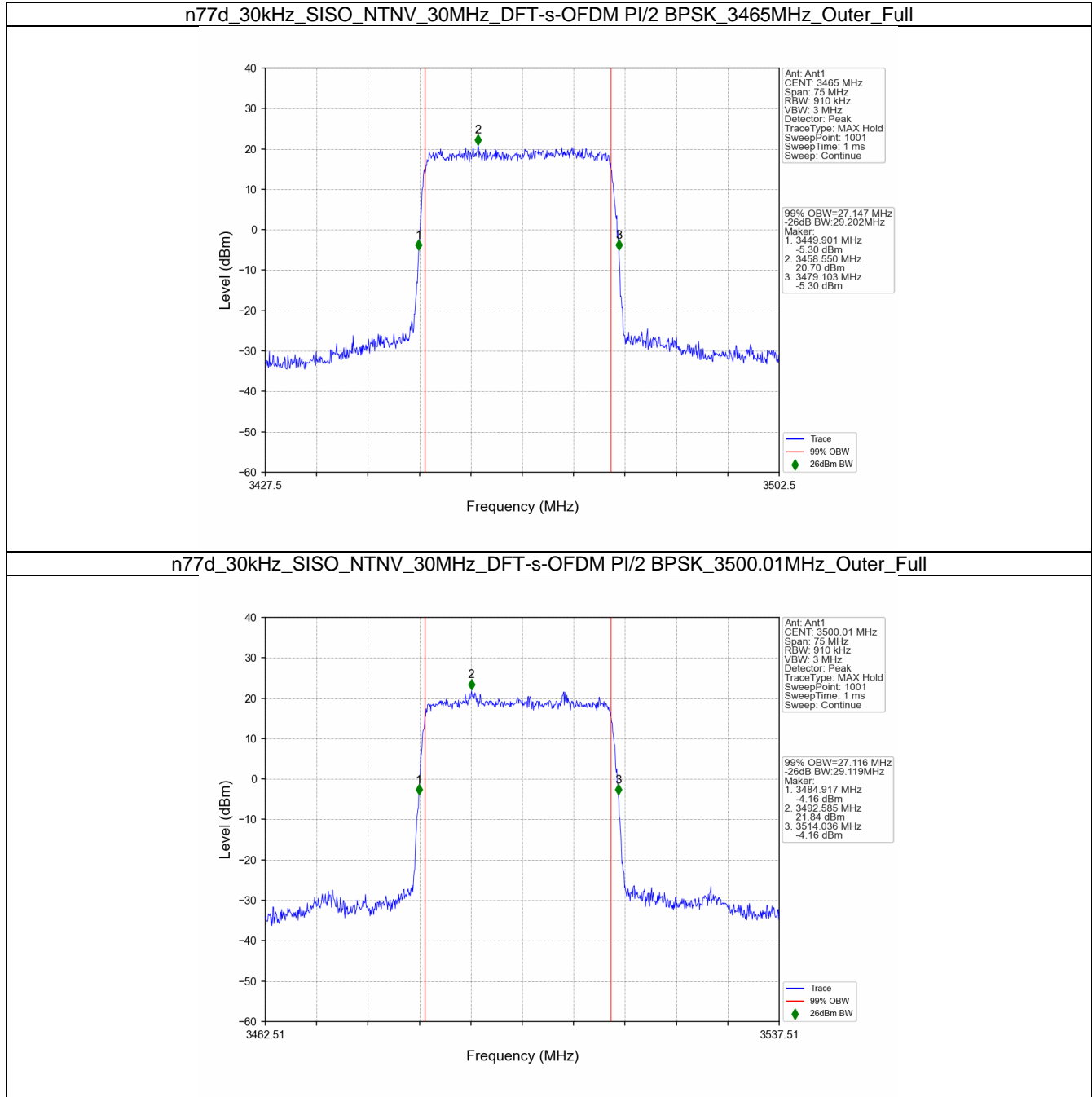


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4.12.2 Test Graph

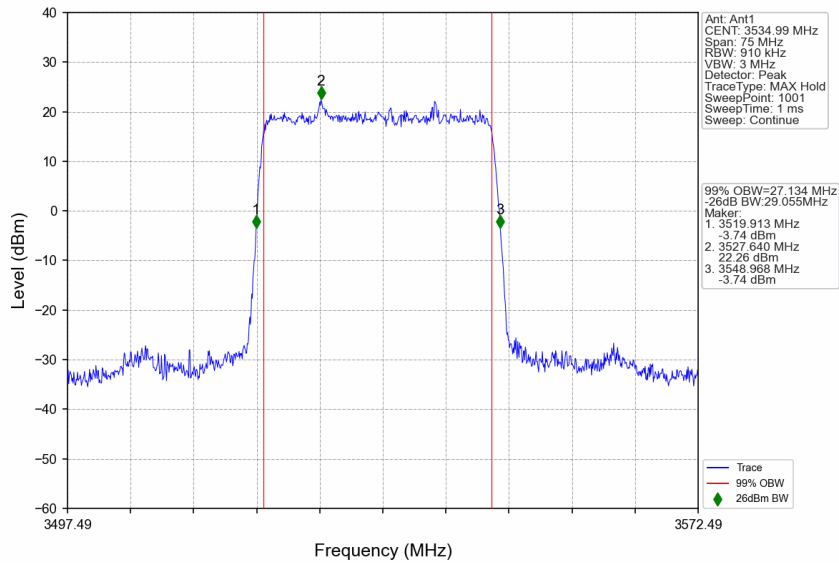


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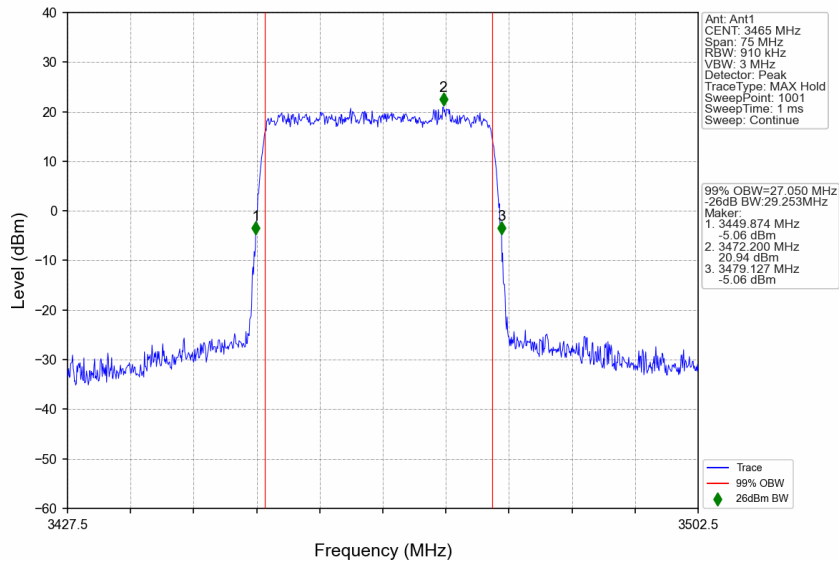
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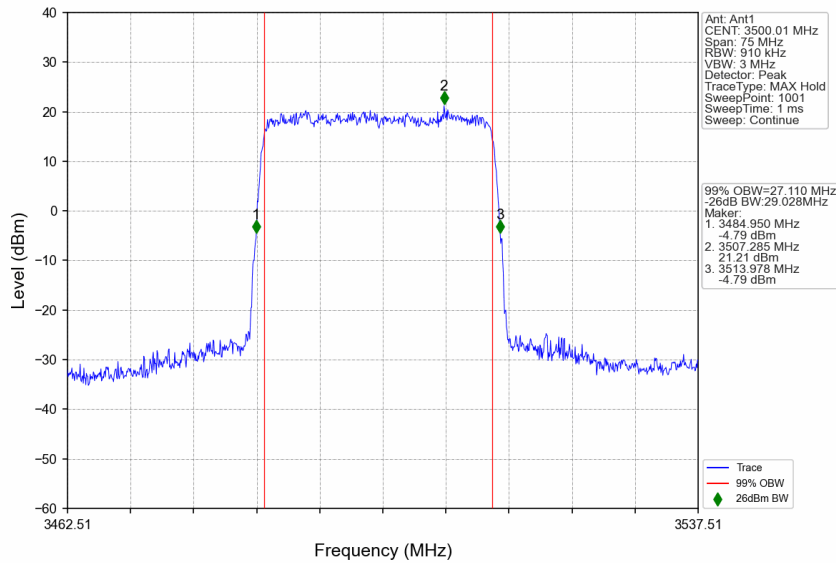


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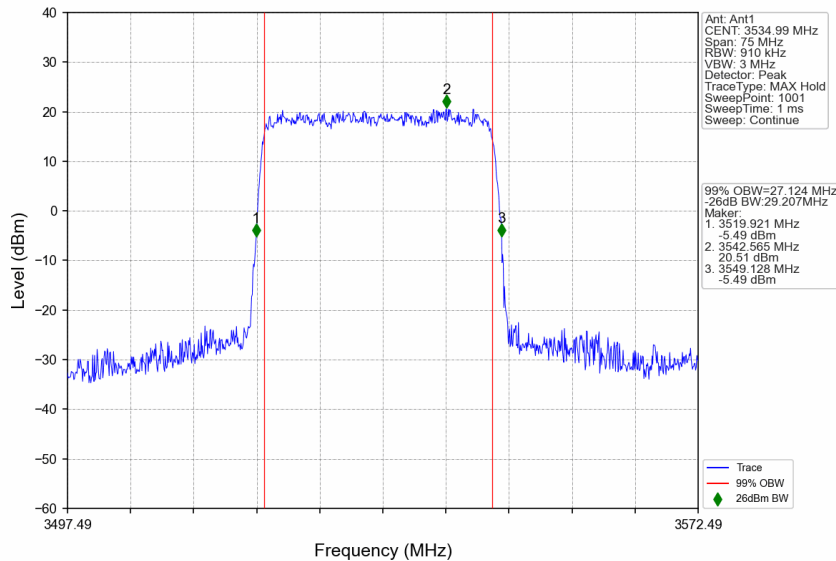
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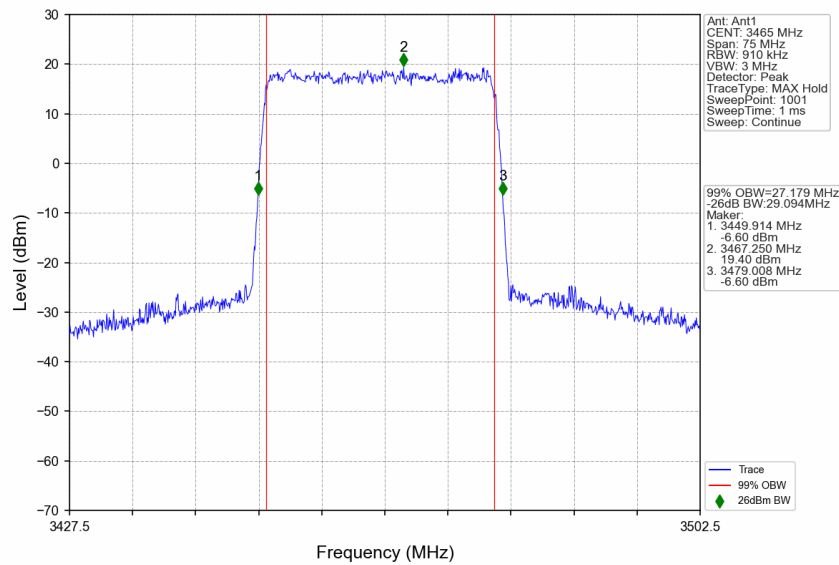


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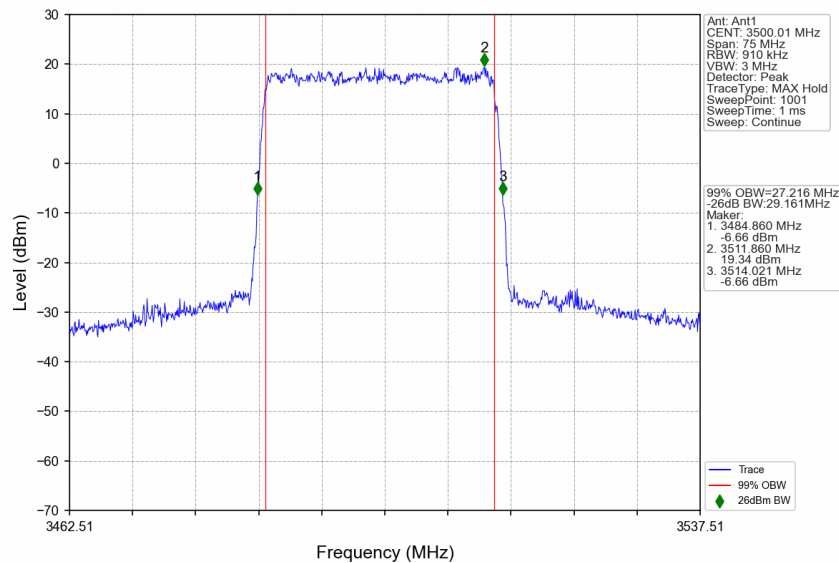
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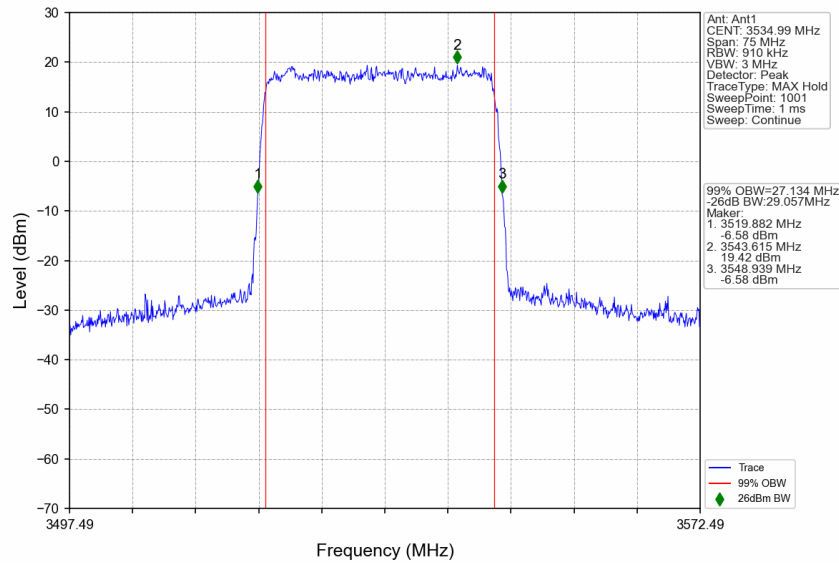


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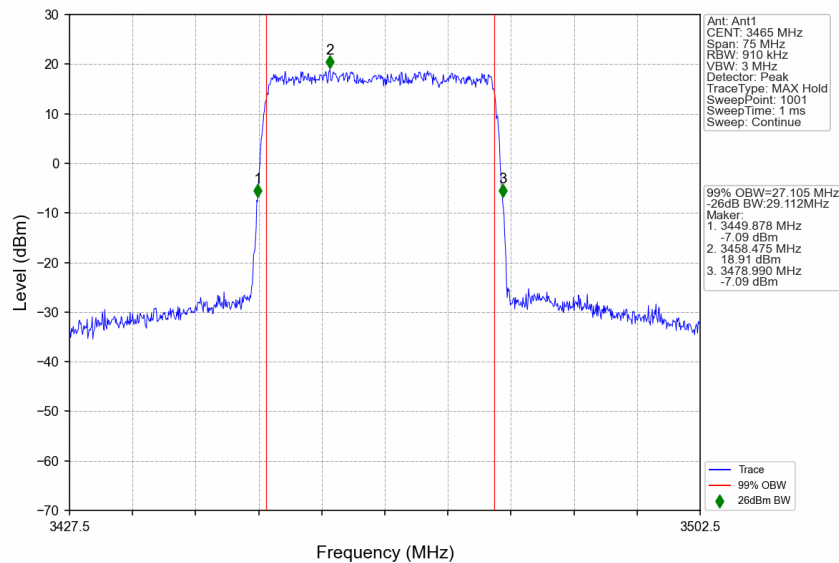
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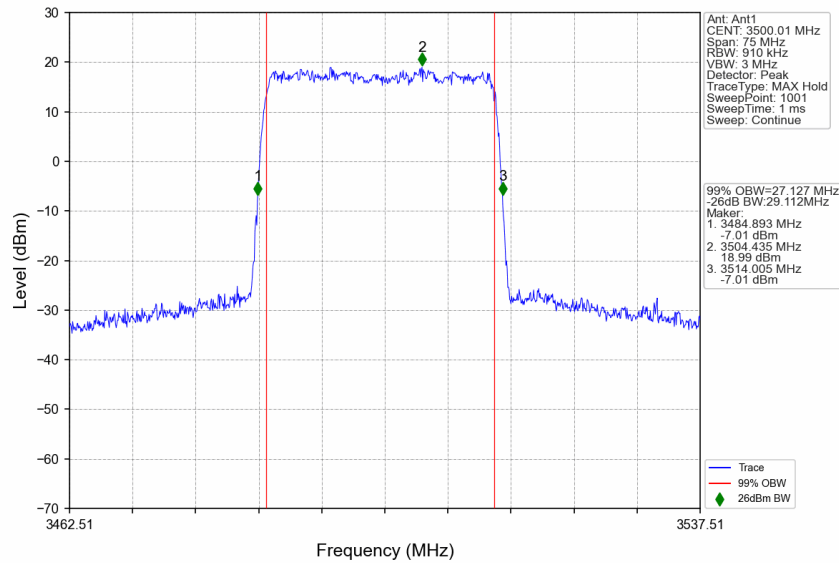


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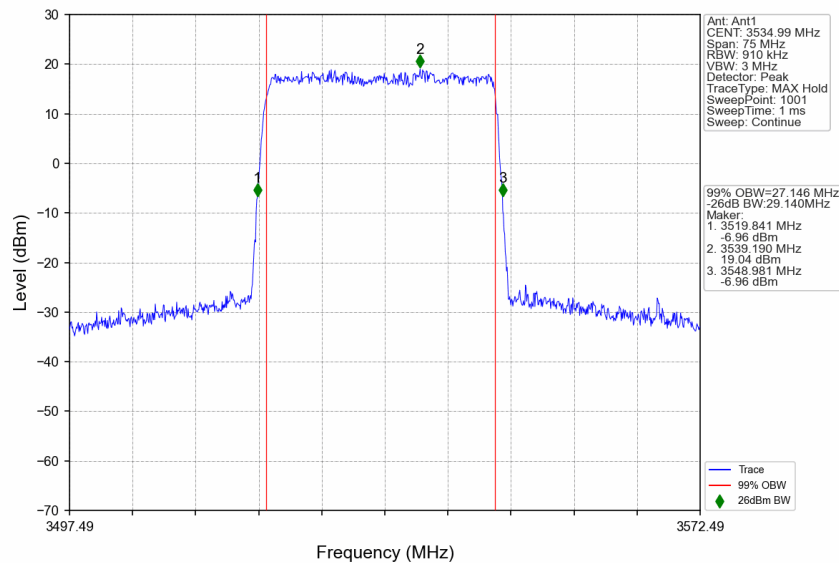
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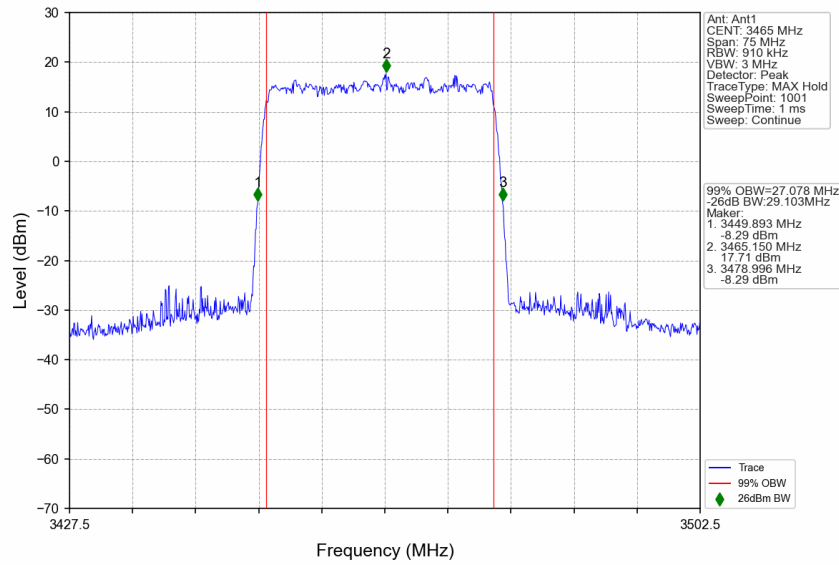


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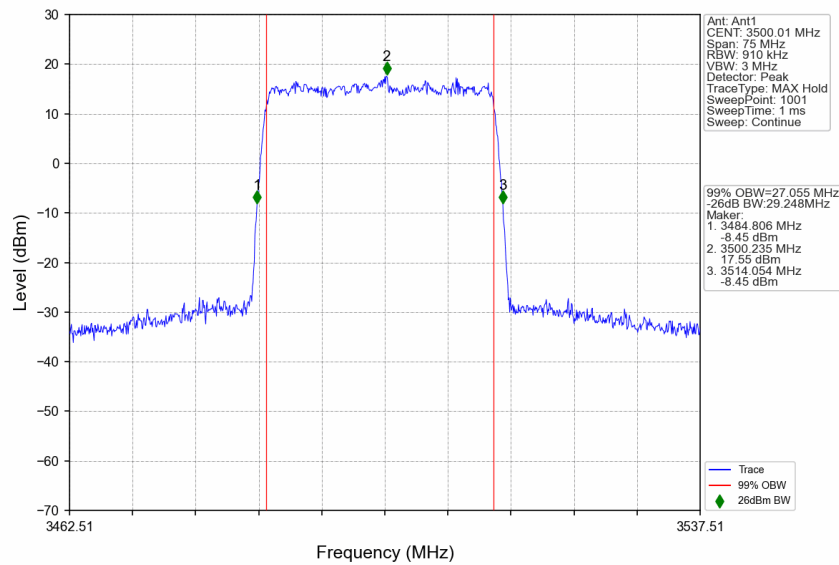
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n77d_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM 256 QAM_3465MHz_Outer_Full



n77d_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM 256 QAM_3500.01MHz_Outer_Full



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