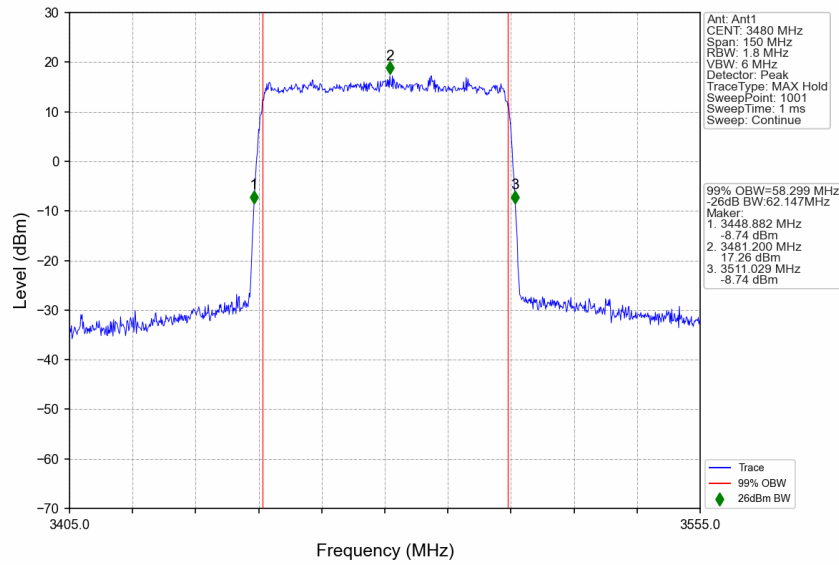
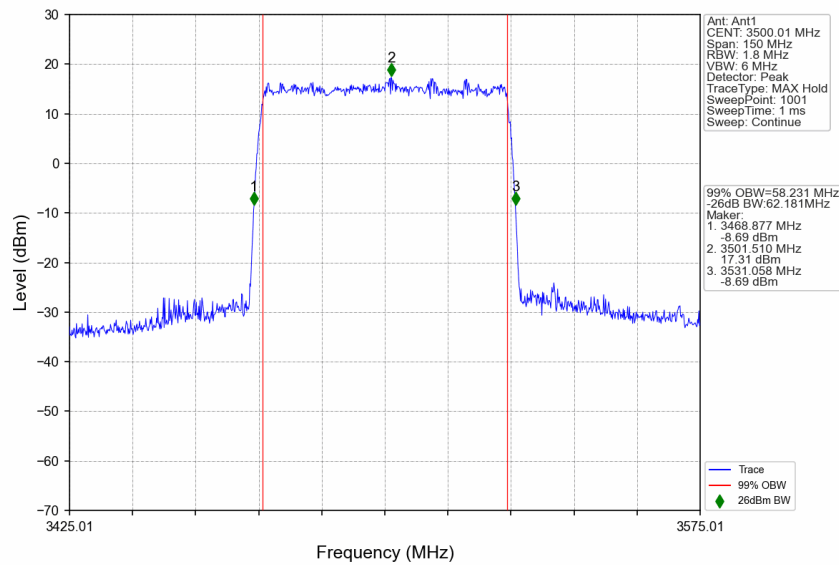


n77d_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM 256 QAM_3480MHz_Outer_Full



n77d_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM 256 QAM_3500.01MHz_Outer_Full

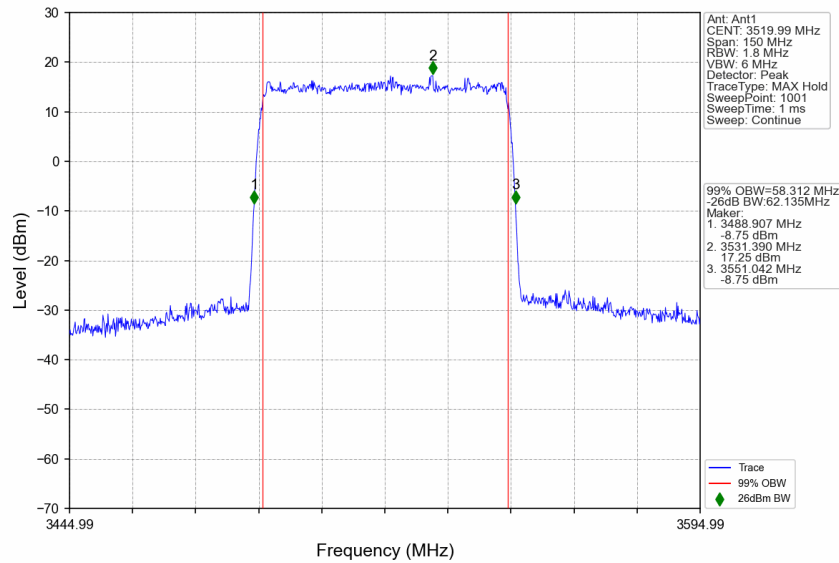


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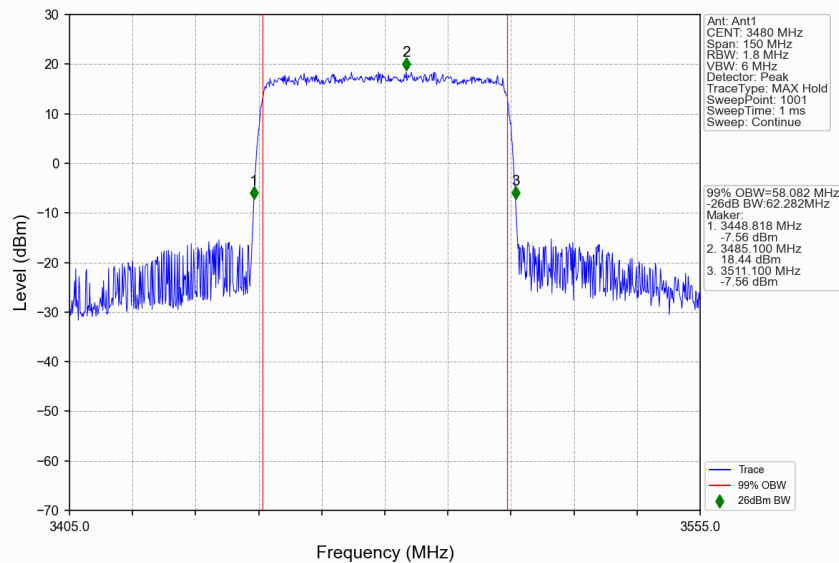
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n77d_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM 256 QAM_3519.99MHz_Outer_Full



n77d_30kHz_SISO_NTNV_60MHz_CP-OFDM QPSK_3480MHz_Outer_Full

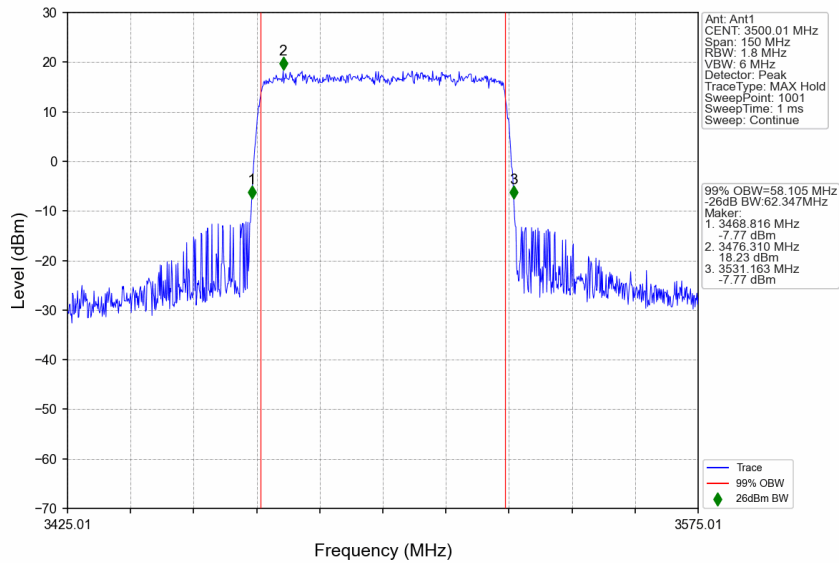


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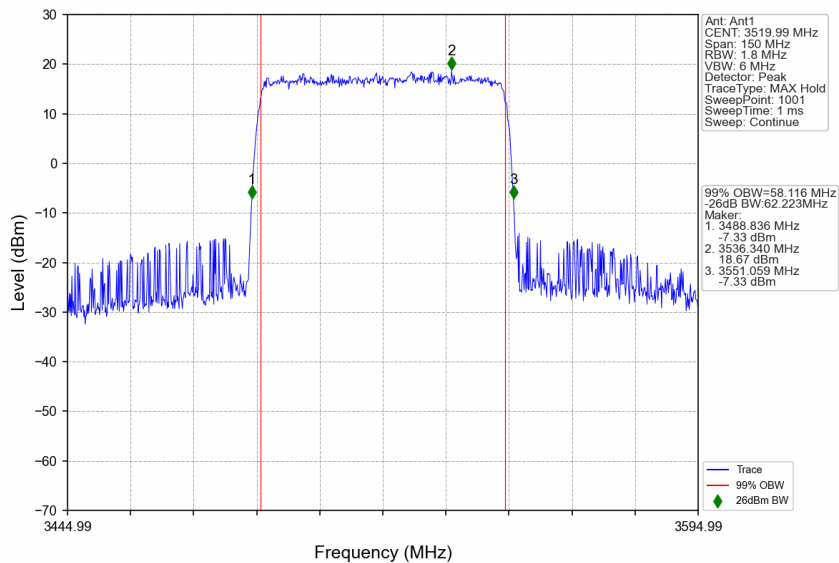
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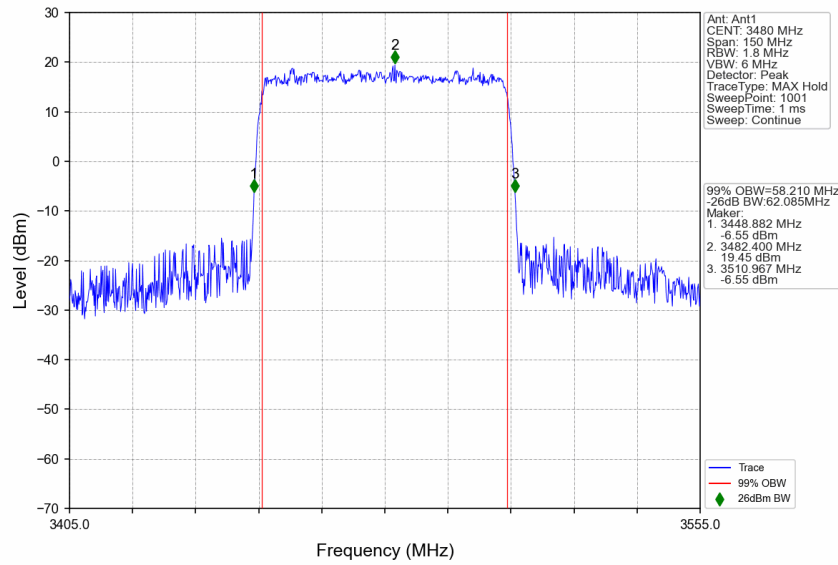


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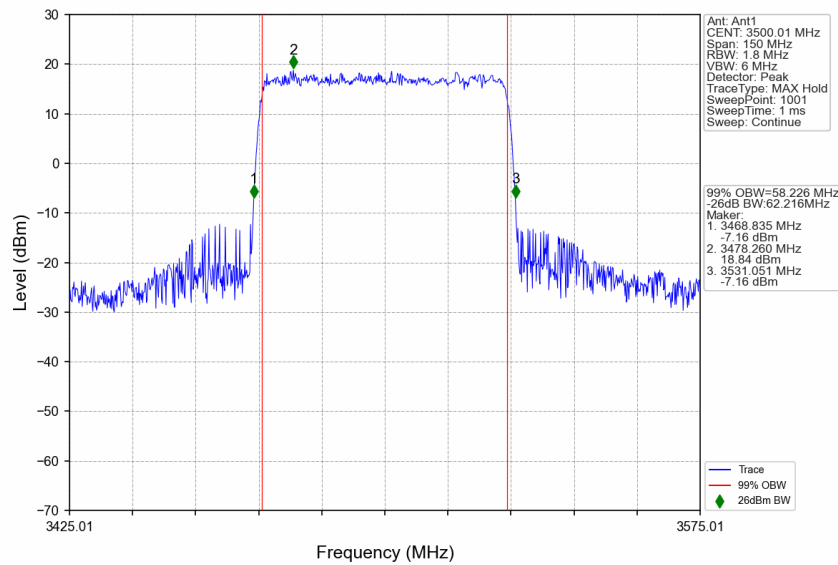
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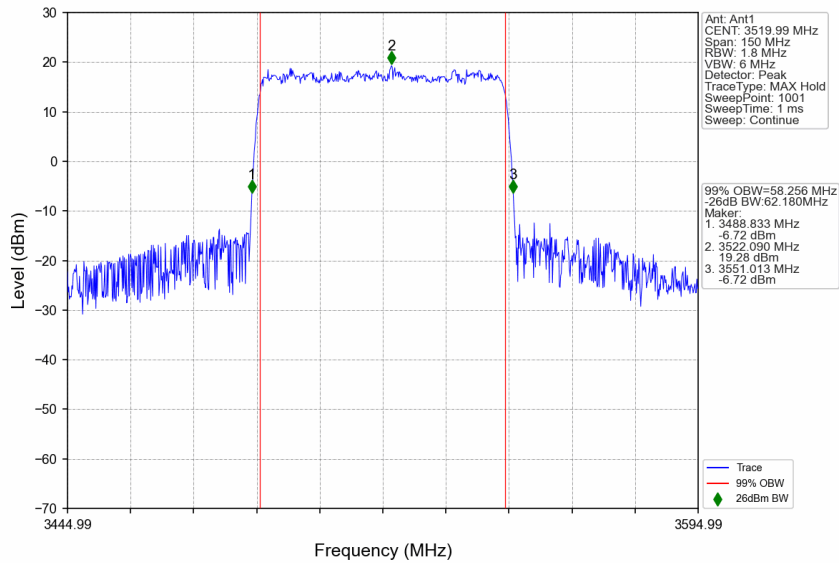


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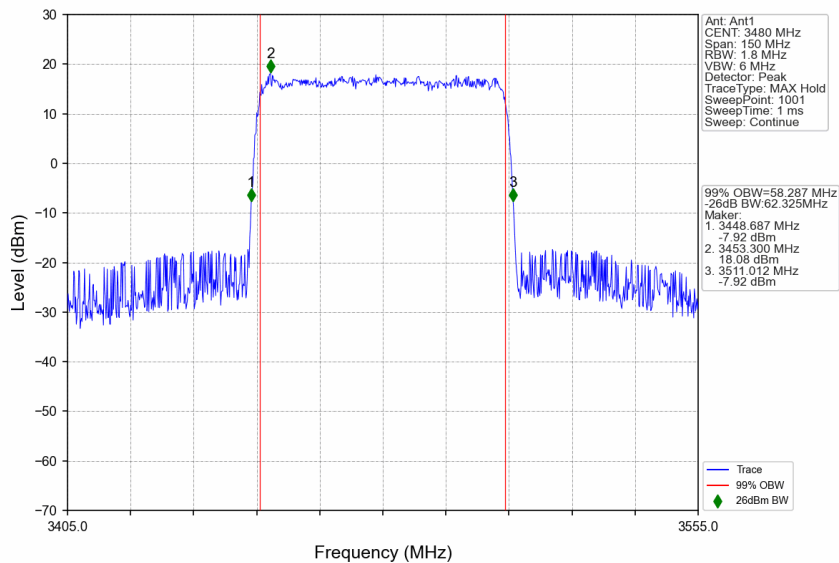
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n77d_30kHz_SISO_NTNV_60MHz_CP-OFDM 64 QAM_3480MHz_Outer_Full

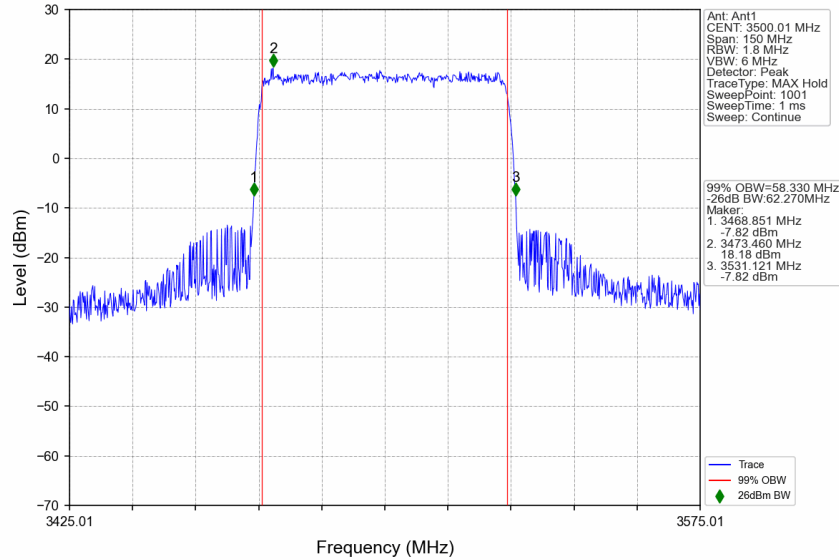


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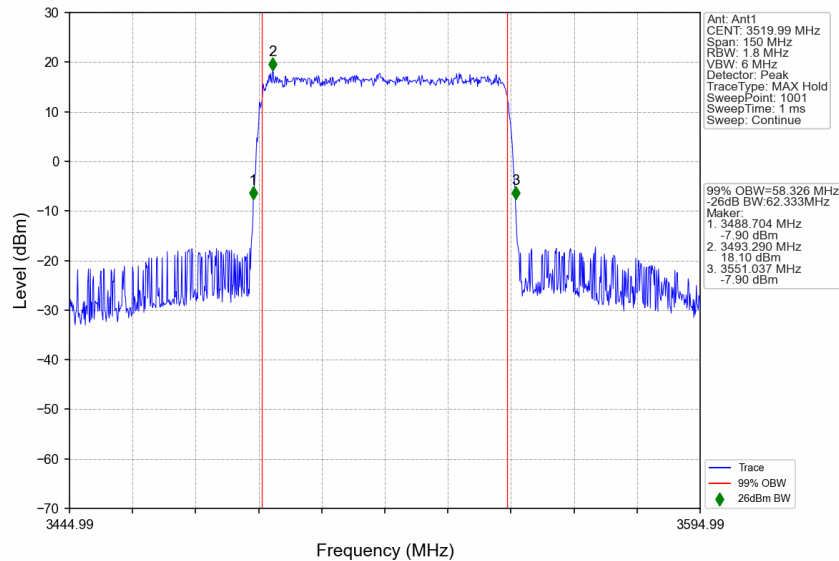
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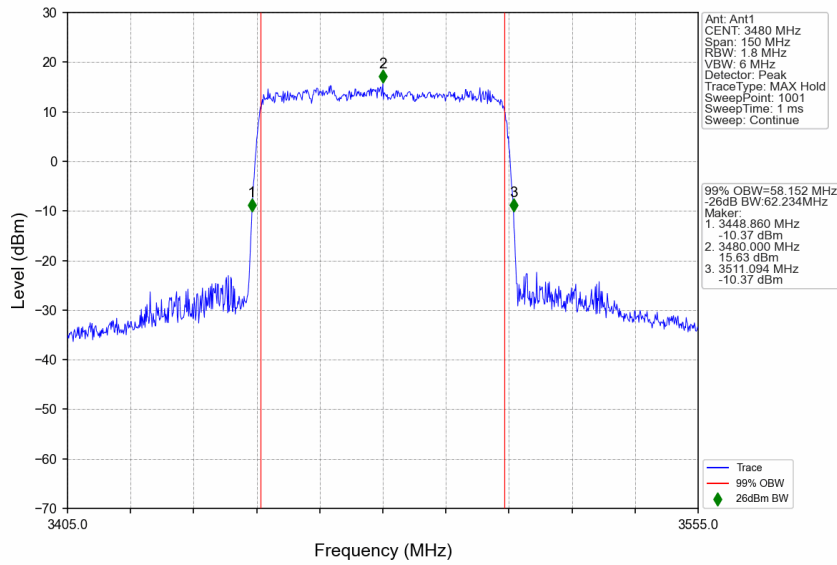


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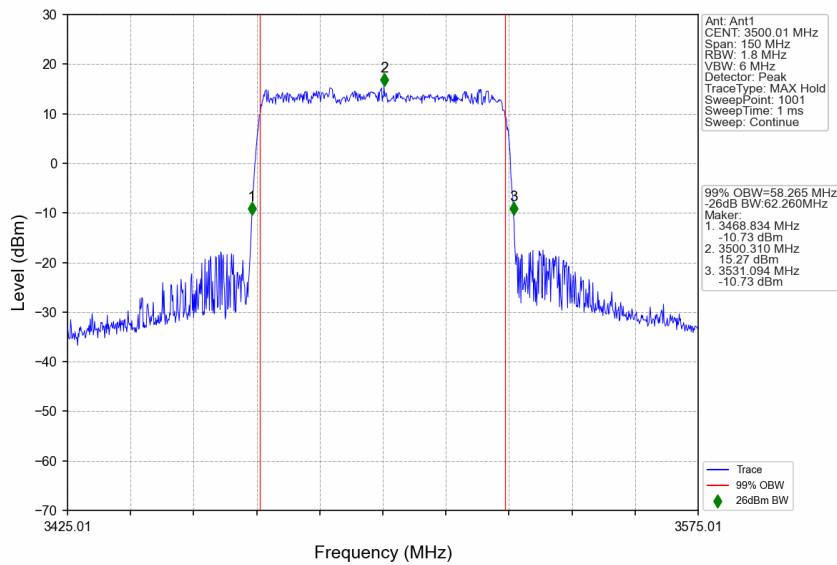
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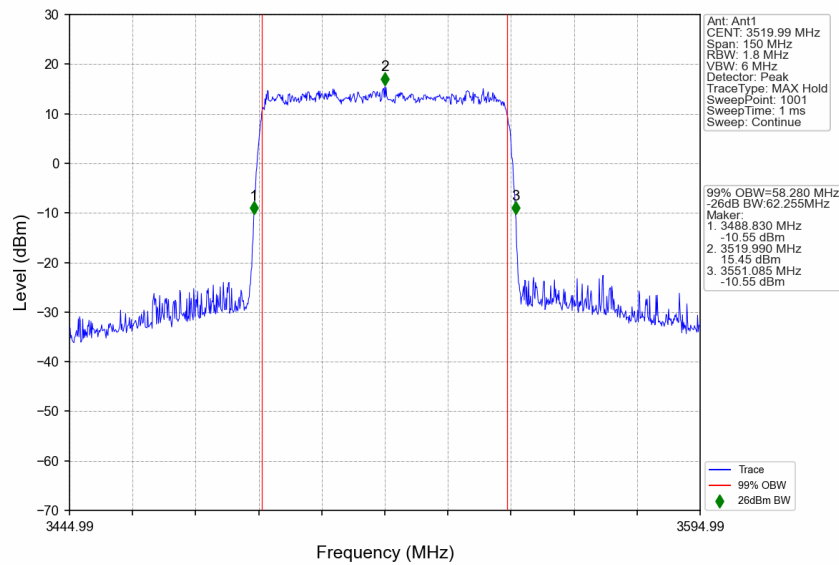


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 Wireless Laboratory

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4.16 30k_SISO_70MHz_NTNV

4.16.1 Test Result

5G NR n77d SCS=30kHz SISO 70MHz NTNv						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3485.01	Outer_Full	65.01	69.69	/	Pass
	3500.01	Outer_Full	65.07	69.65	/	Pass
	3514.98	Outer_Full	64.93	69.33	/	Pass
DFT-s-OFDM QPSK	3485.01	Outer_Full	64.90	69.59	/	Pass
	3500.01	Outer_Full	65.06	69.62	/	Pass
	3514.98	Outer_Full	64.81	69.45	/	Pass
DFT-s-OFDM 16 QAM	3485.01	Outer_Full	64.91	69.62	/	Pass
	3500.01	Outer_Full	64.88	69.75	/	Pass
	3514.98	Outer_Full	64.90	69.67	/	Pass
DFT-s-OFDM 64 QAM	3485.01	Outer_Full	64.89	69.78	/	Pass
	3500.01	Outer_Full	64.86	69.74	/	Pass
	3514.98	Outer_Full	65.03	69.45	/	Pass
DFT-s-OFDM 256 QAM	3485.01	Outer_Full	65.00	69.57	/	Pass
	3500.01	Outer_Full	64.99	69.58	/	Pass
	3514.98	Outer_Full	64.65	69.55	/	Pass
CP-OFDM QPSK	3485.01	Outer_Full	68.13	72.94	/	Pass
	3500.01	Outer_Full	68.13	72.98	/	Pass
	3514.98	Outer_Full	67.70	72.42	/	Pass
CP-OFDM 16 QAM	3485.01	Outer_Full	67.92	72.76	/	Pass
	3500.01	Outer_Full	68.09	72.83	/	Pass
	3514.98	Outer_Full	67.71	72.38	/	Pass
CP-OFDM 64 QAM	3485.01	Outer_Full	68.04	72.74	/	Pass
	3500.01	Outer_Full	68.04	72.74	/	Pass
	3514.98	Outer_Full	67.91	72.39	/	Pass
CP-OFDM 256 QAM	3485.01	Outer_Full	67.86	72.73	/	Pass
	3500.01	Outer_Full	68.03	72.81	/	Pass
	3514.98	Outer_Full	67.66	72.75	/	Pass

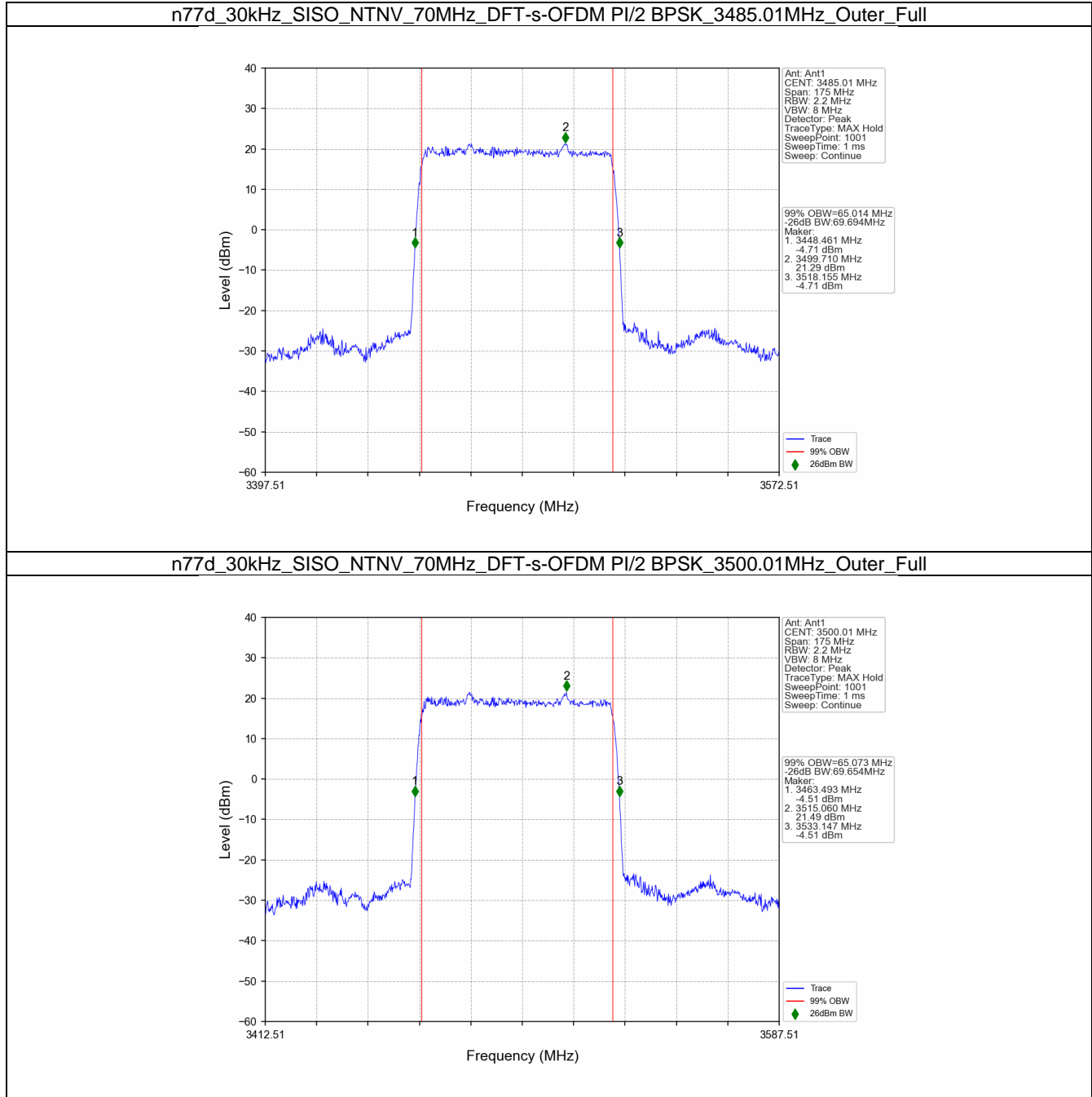


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4.16.2 Test Graph

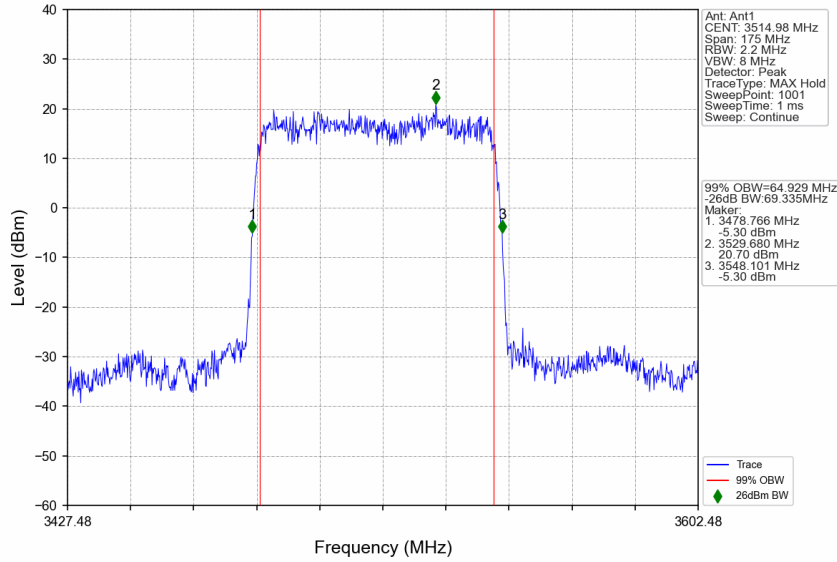


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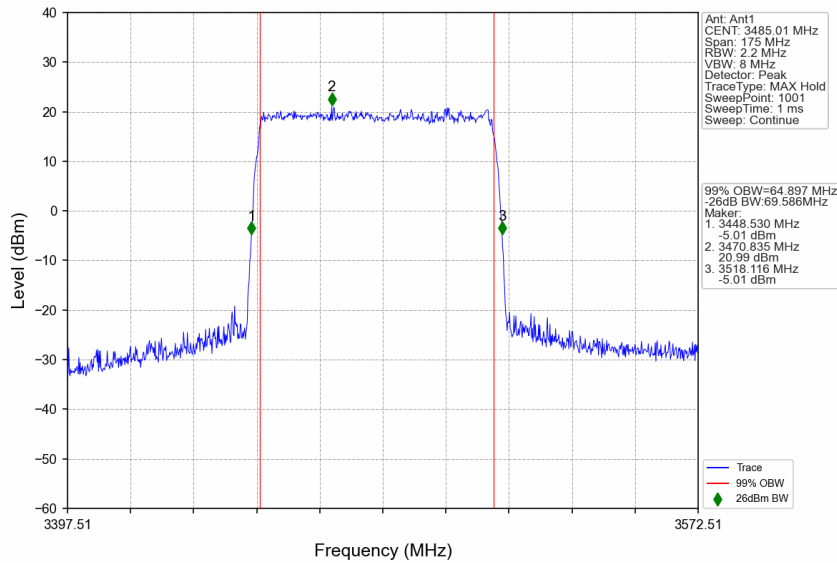
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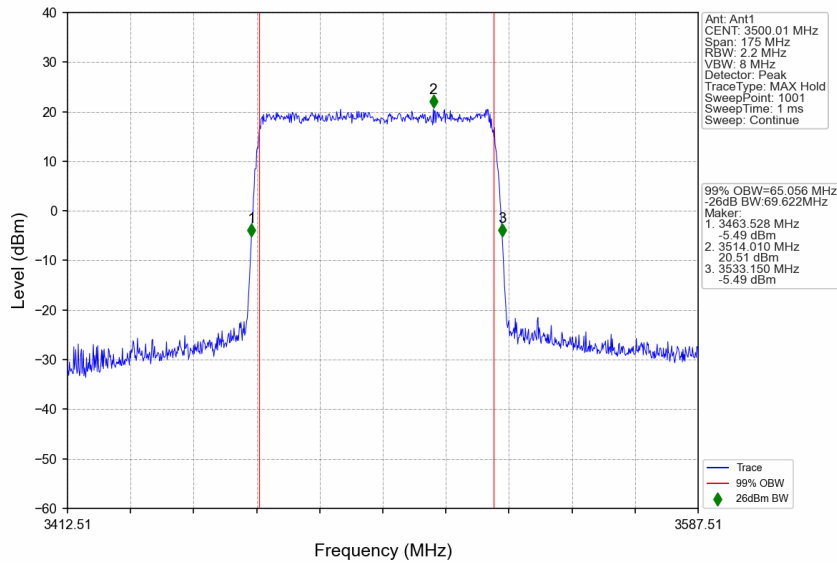


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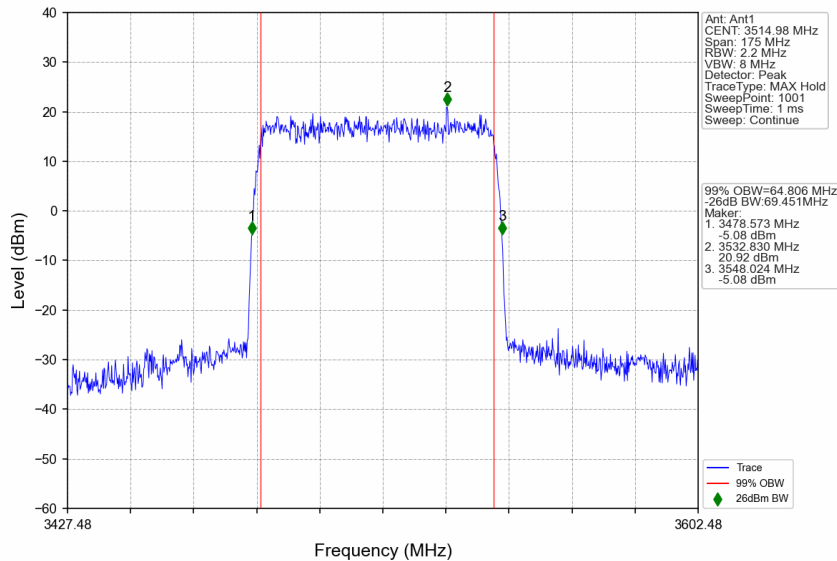
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n77d_30kHz_SISO_NTNV_70MHz_DFT-s-OFDM QPSK_3500.01MHz_Outer_Full



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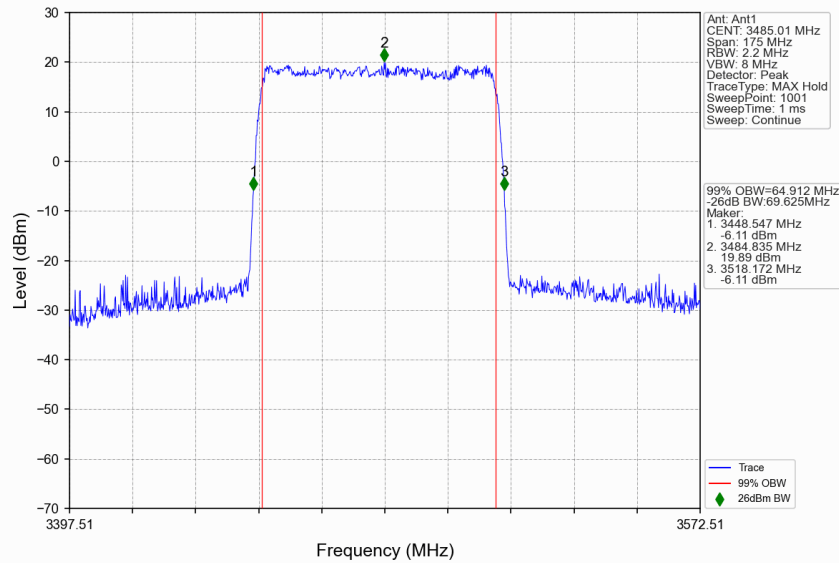


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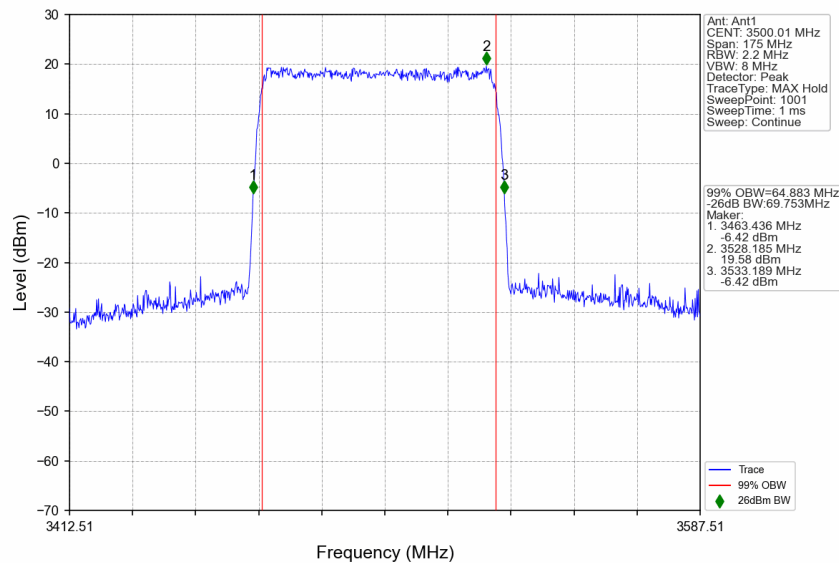
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n77d_30kHz_SISO_NTNV_70MHz_DFT-s-OFDM 16 QAM_3485.01MHz_Outer_Full



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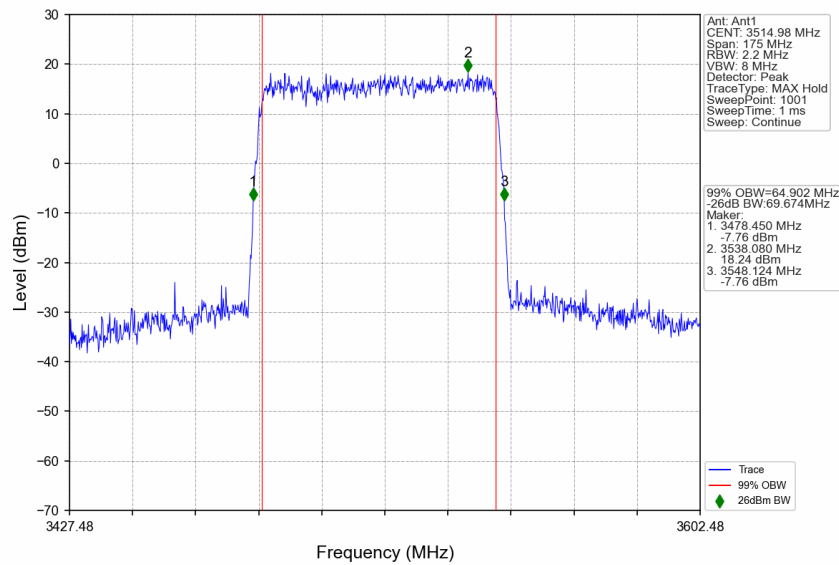


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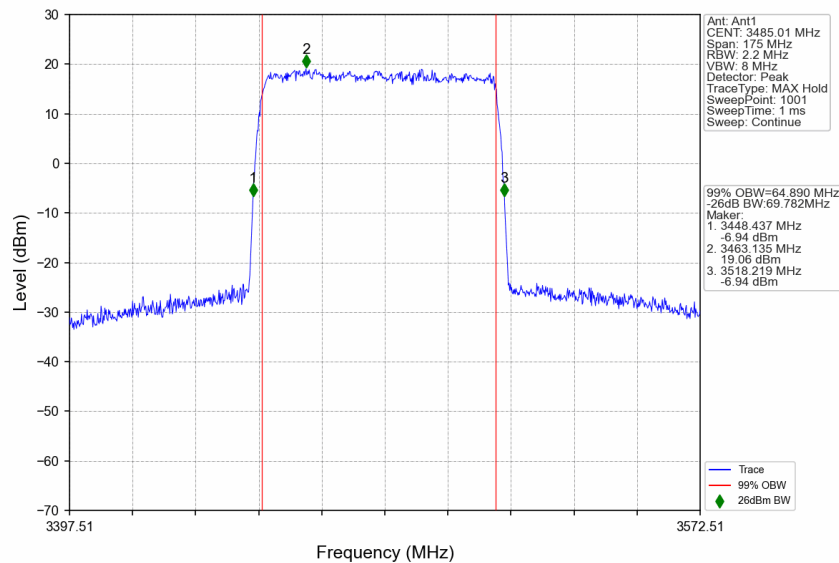
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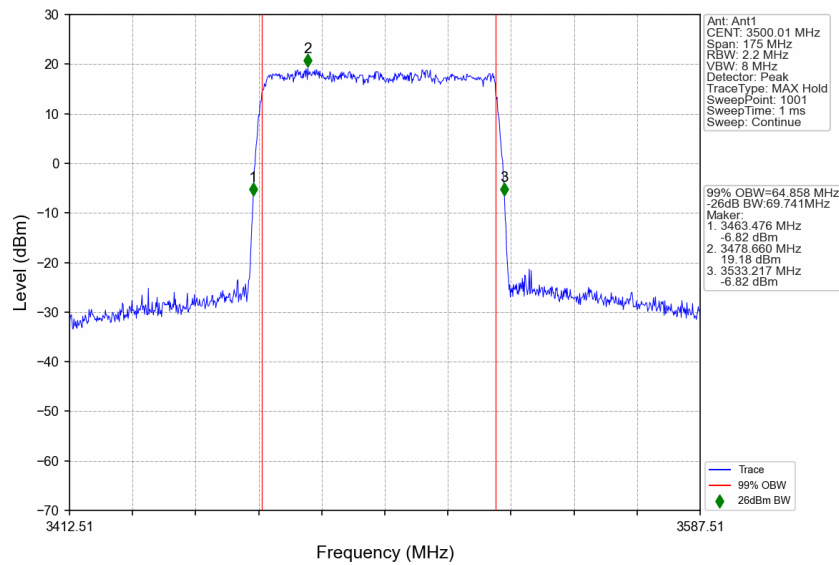


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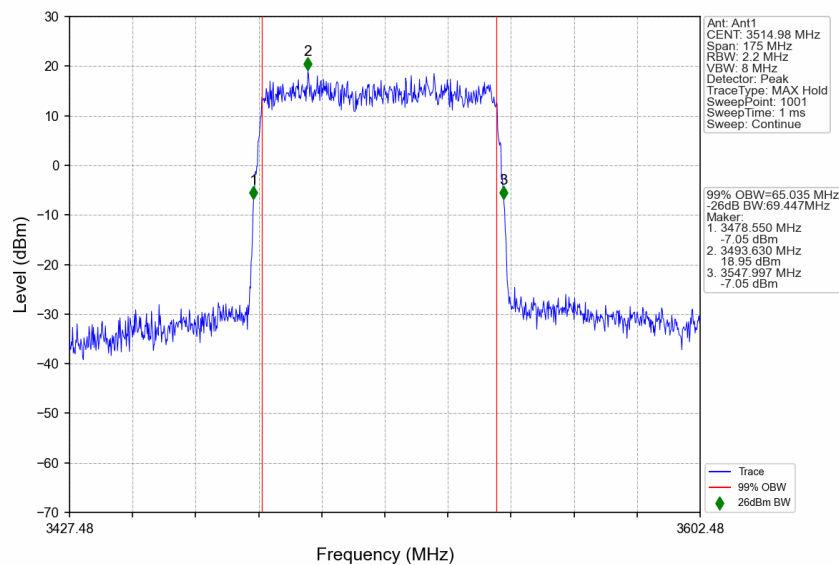
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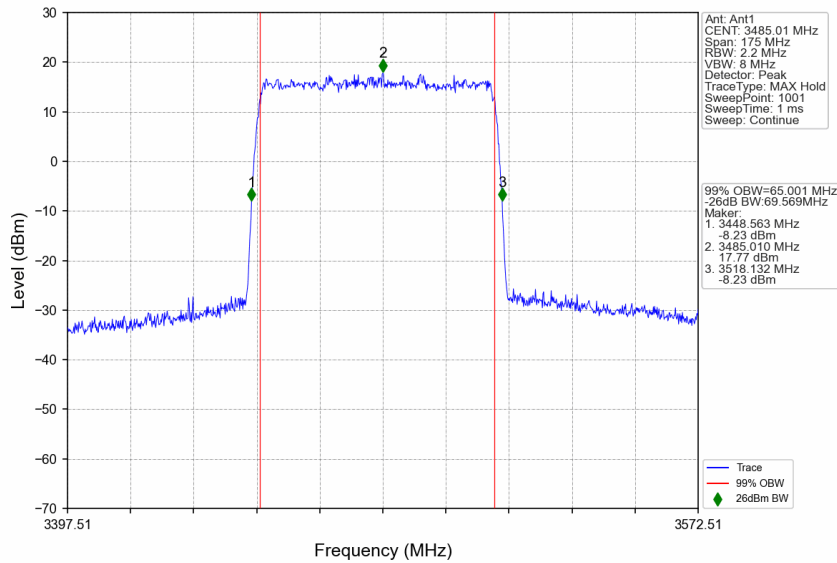
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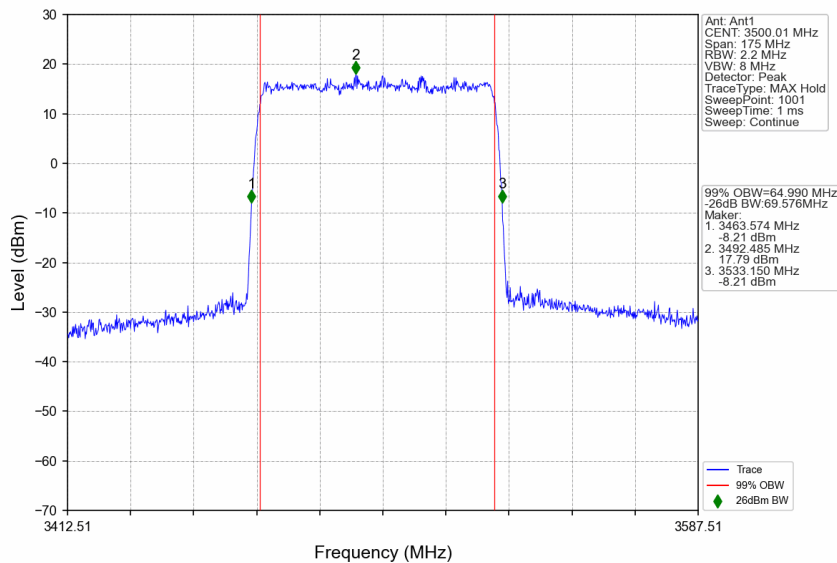
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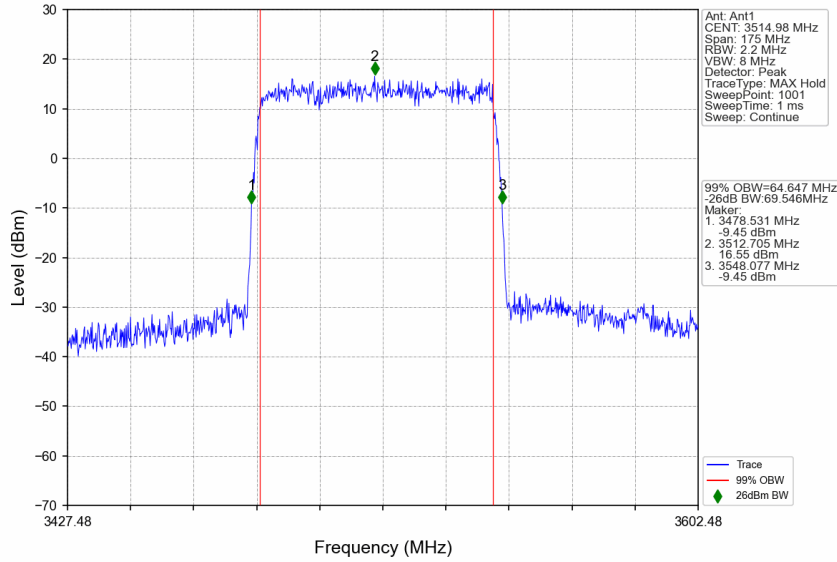


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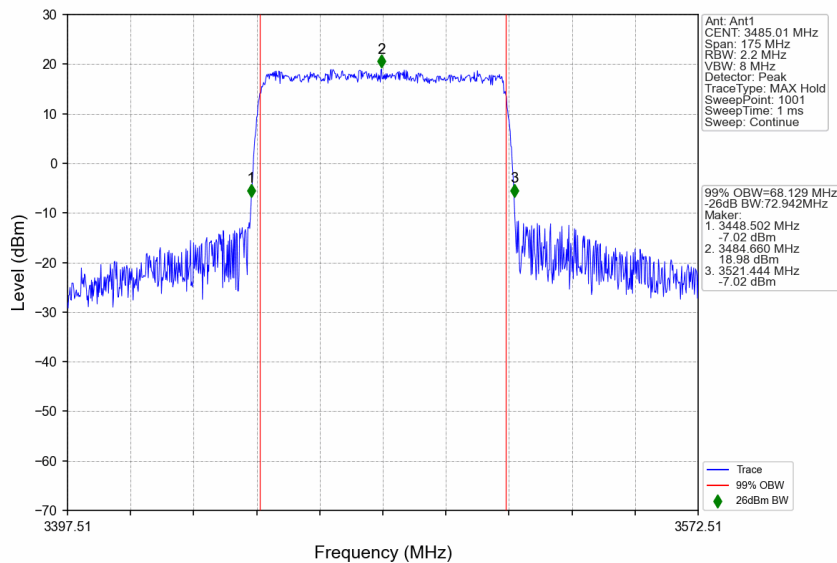
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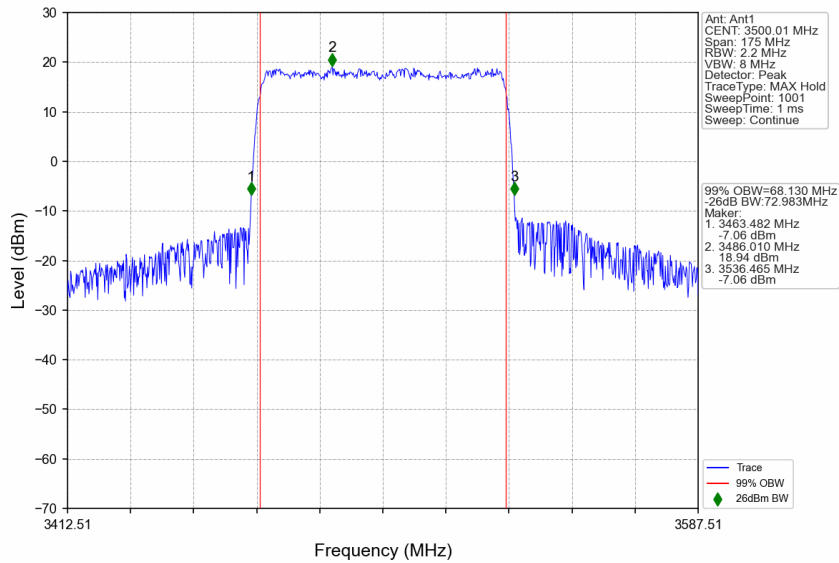


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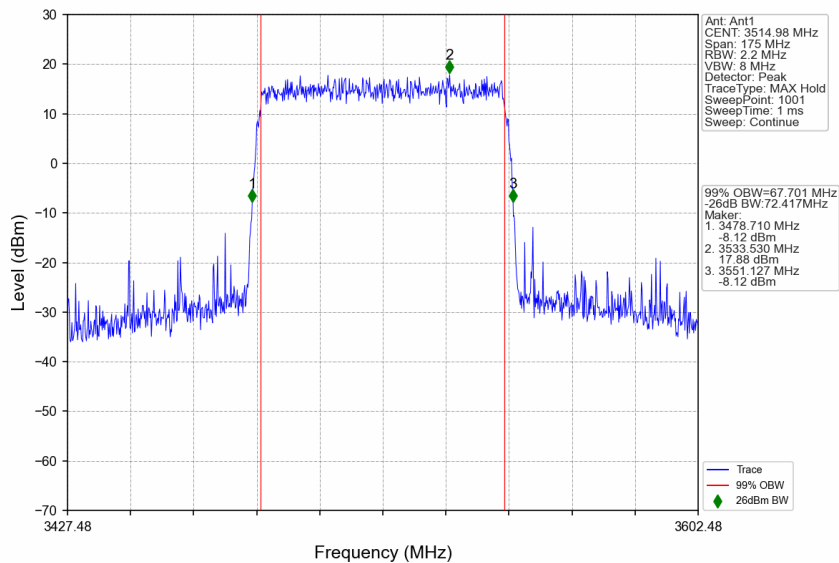
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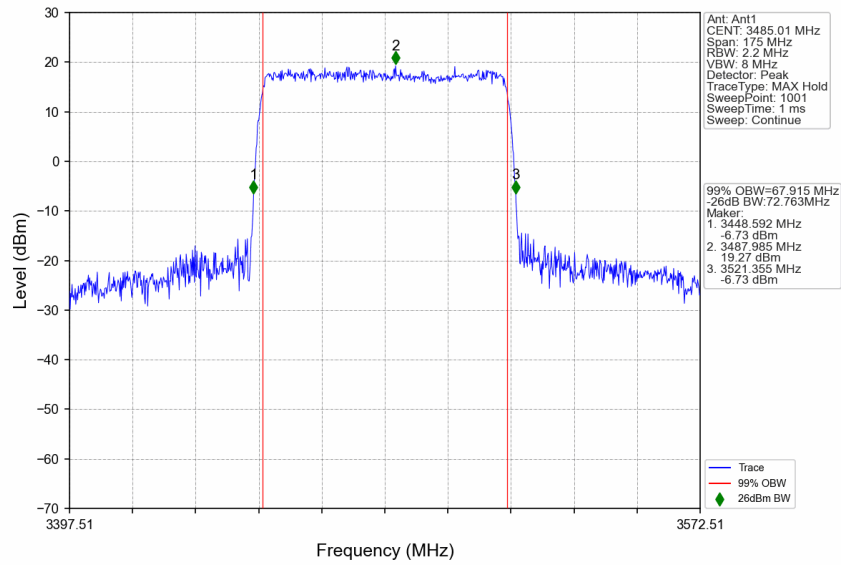


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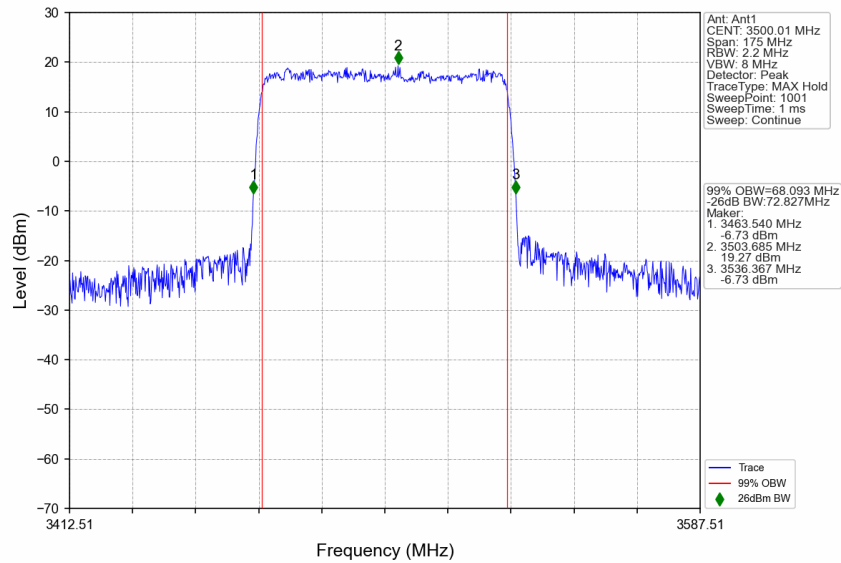
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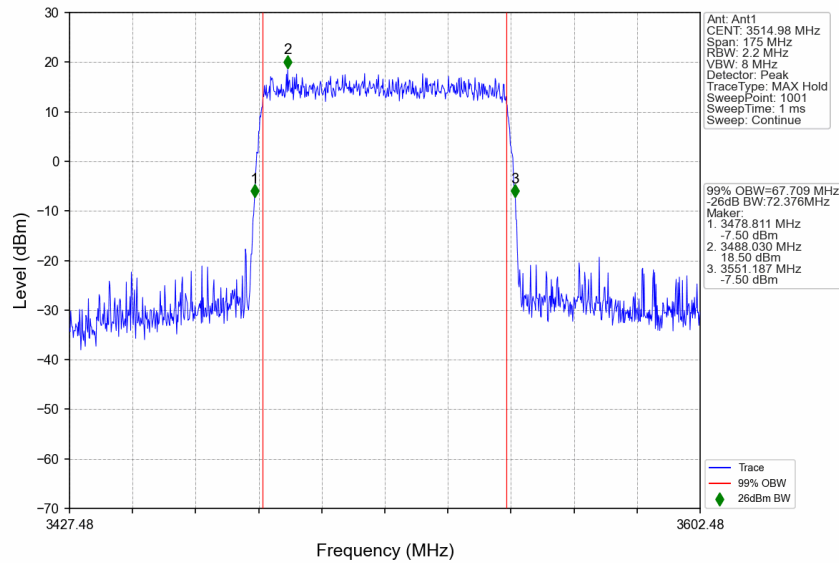


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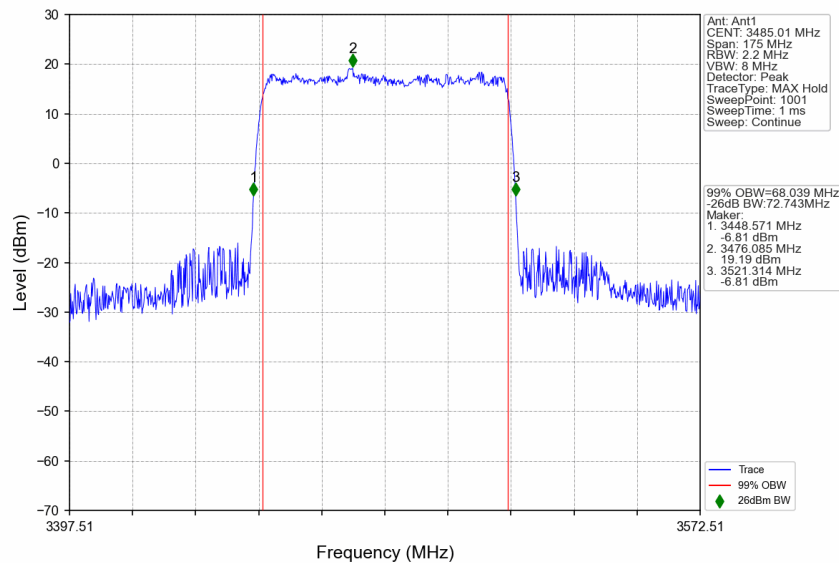
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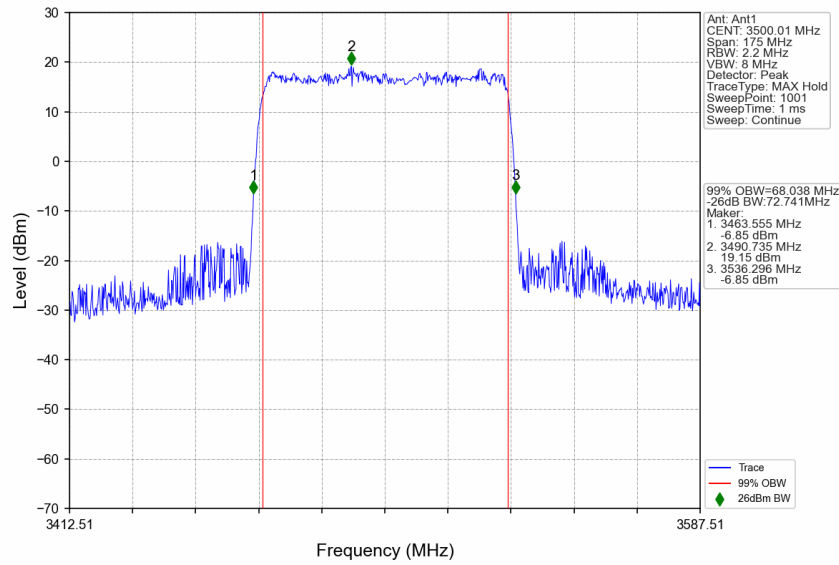


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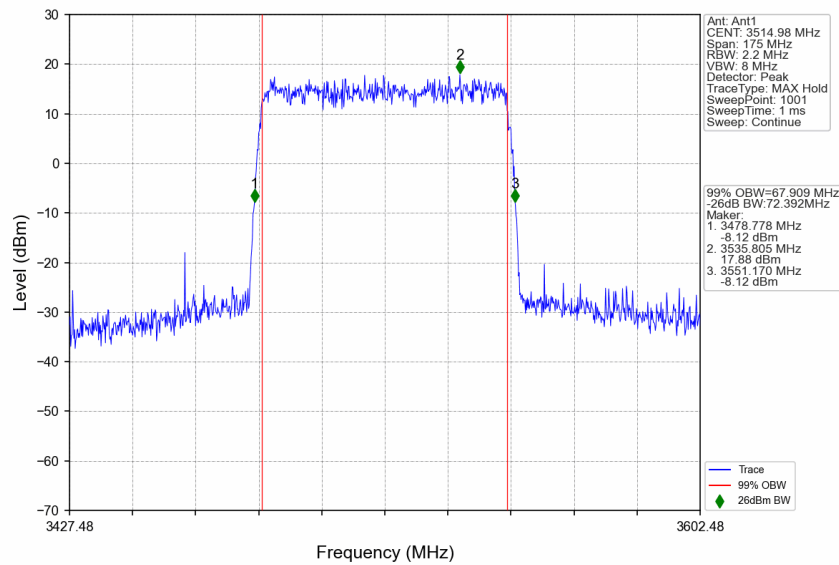
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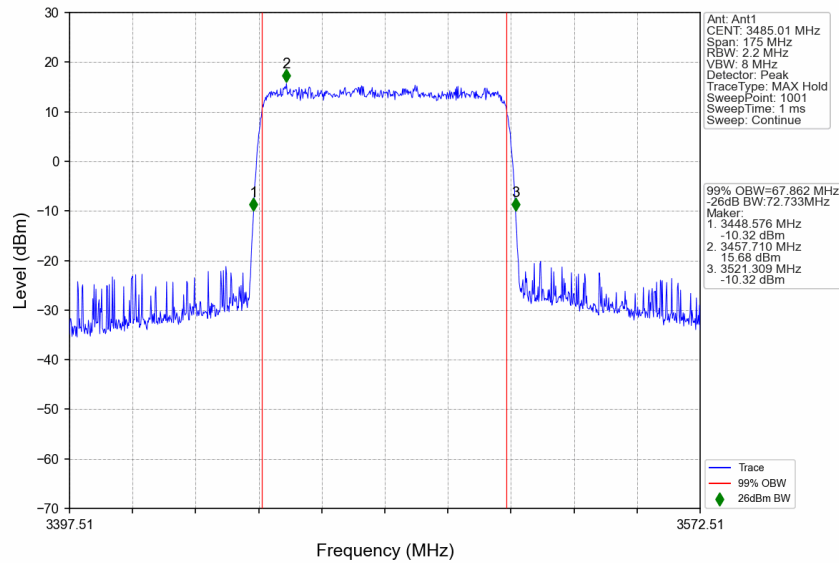


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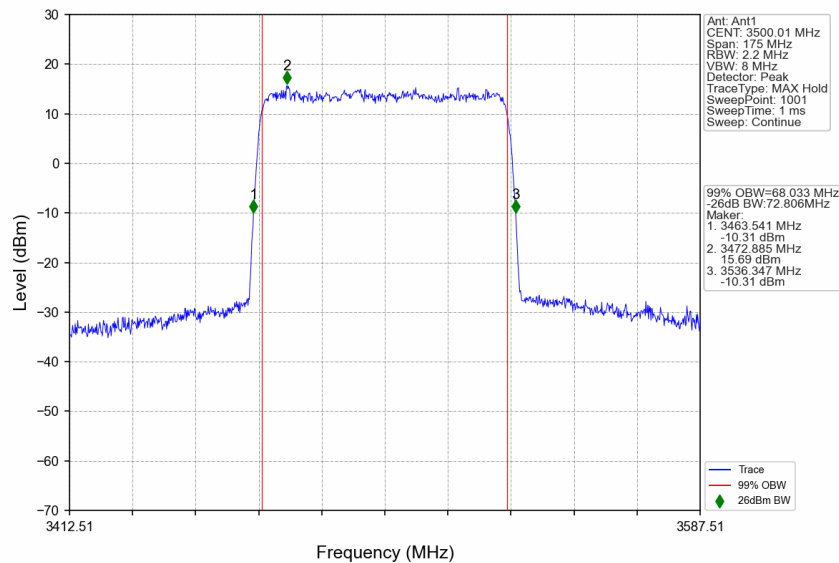
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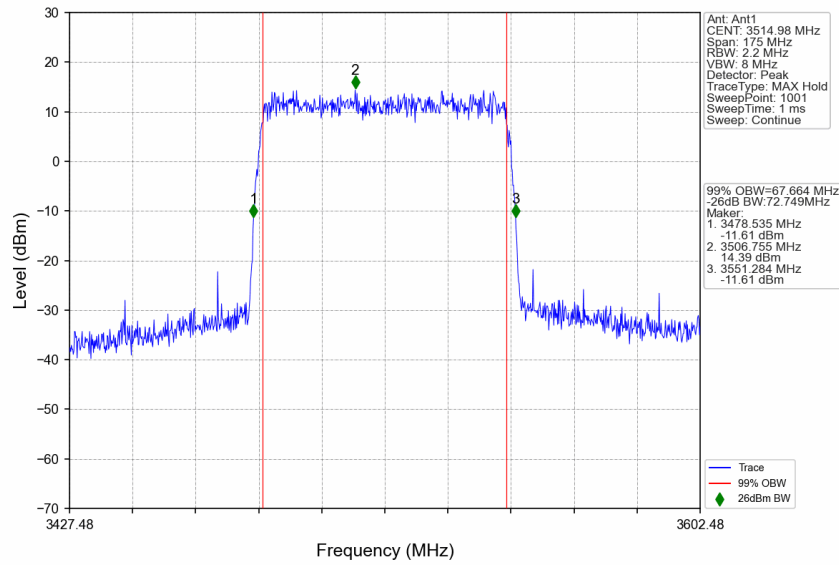
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n77d_30kHz_SISO_NTNV_70MHz_CP-OFDM 256 QAM_3514.98MHz_Outer_Full



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SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd. Wireless Laboratory

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4.17 30k_SISO_80MHz_NTNV

4.17.1 Test Result

5G NR n77d SCS=30kHz SISO 80MHz NTNv						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3490.02	Outer_Full	77.74	82.87	/	Pass
	3500.01	Outer_Full	77.75	82.66	/	Pass
	3510	Outer_Full	77.71	82.74	/	Pass
DFT-s-OFDM QPSK	3490.02	Outer_Full	77.68	83.10	/	Pass
	3500.01	Outer_Full	77.59	82.91	/	Pass
	3510	Outer_Full	77.89	83.00	/	Pass
DFT-s-OFDM 16 QAM	3490.02	Outer_Full	77.60	83.01	/	Pass
	3500.01	Outer_Full	77.71	82.67	/	Pass
	3510	Outer_Full	77.71	82.34	/	Pass
DFT-s-OFDM 64 QAM	3490.02	Outer_Full	77.99	83.03	/	Pass
	3500.01	Outer_Full	77.57	82.51	/	Pass
	3510	Outer_Full	77.77	82.60	/	Pass
DFT-s-OFDM 256 QAM	3490.02	Outer_Full	77.84	82.95	/	Pass
	3500.01	Outer_Full	78.07	82.79	/	Pass
	3510	Outer_Full	77.58	82.80	/	Pass
CP-OFDM QPSK	3490.02	Outer_Full	78.16	83.31	/	Pass
	3500.01	Outer_Full	77.84	83.00	/	Pass
	3510	Outer_Full	78.13	82.84	/	Pass
CP-OFDM 16 QAM	3490.02	Outer_Full	78.02	83.23	/	Pass
	3500.01	Outer_Full	77.97	82.93	/	Pass
	3510	Outer_Full	77.95	82.98	/	Pass
CP-OFDM 64 QAM	3490.02	Outer_Full	78.09	83.26	/	Pass
	3500.01	Outer_Full	78.14	82.84	/	Pass
	3510	Outer_Full	78.07	82.94	/	Pass
CP-OFDM 256 QAM	3490.02	Outer_Full	78.11	83.36	/	Pass
	3500.01	Outer_Full	78.25	82.99	/	Pass
	3510	Outer_Full	78.27	83.31	/	Pass

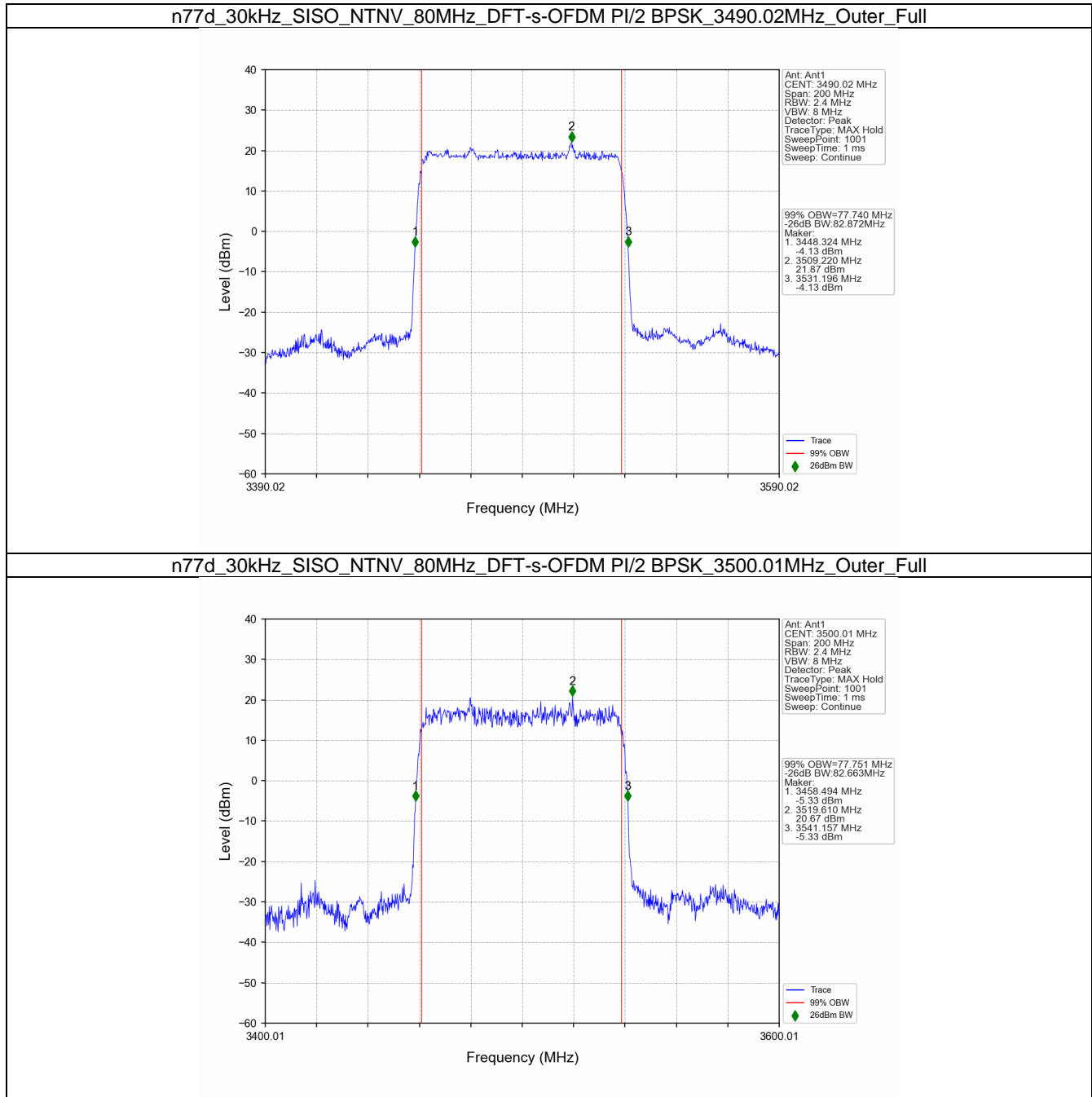


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4.17.2 Test Graph

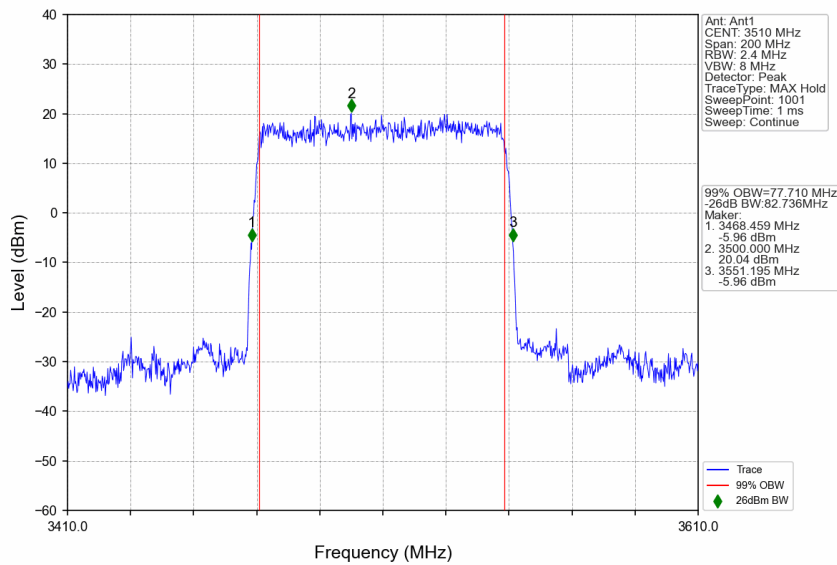


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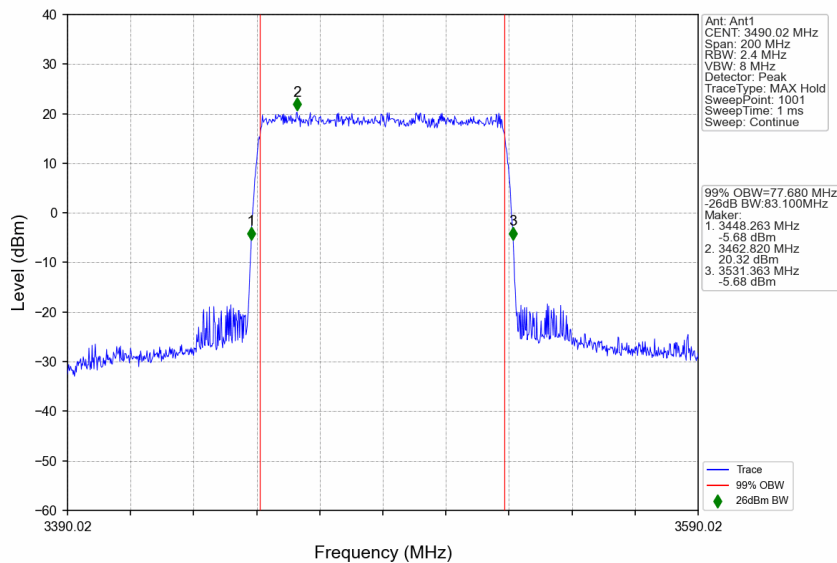
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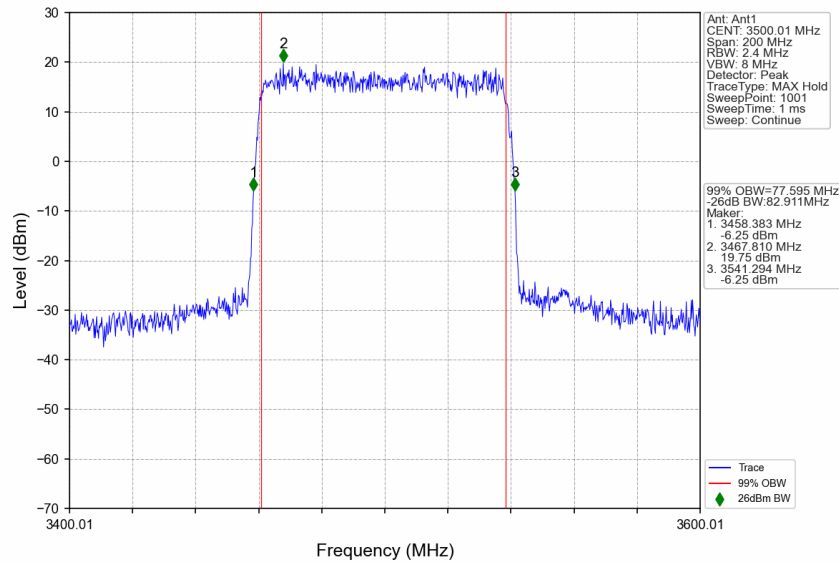


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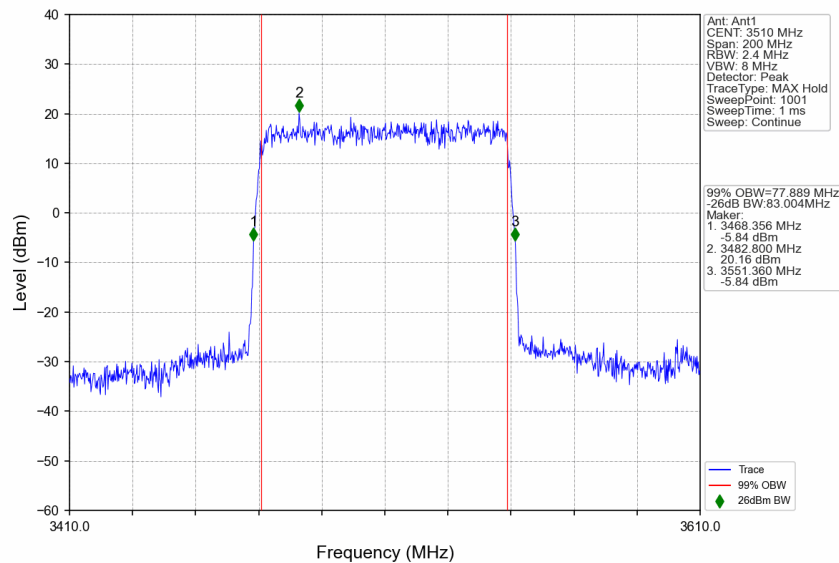
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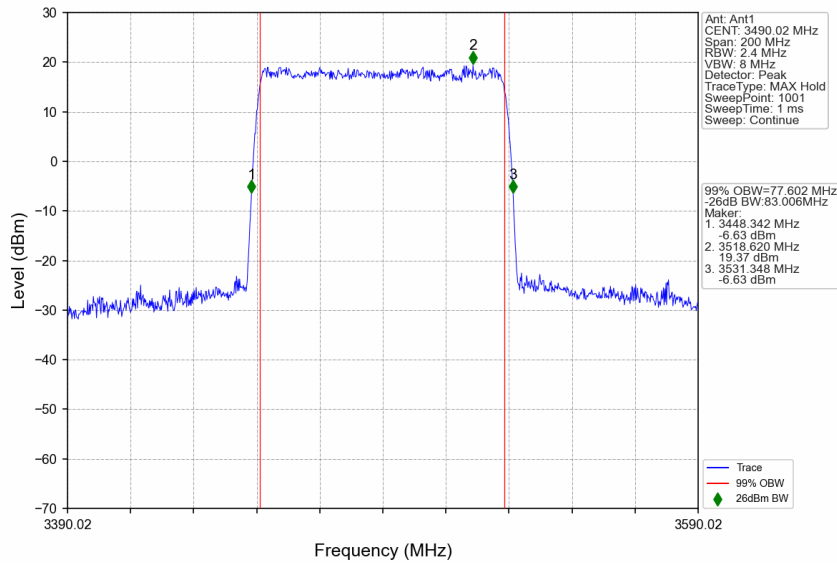


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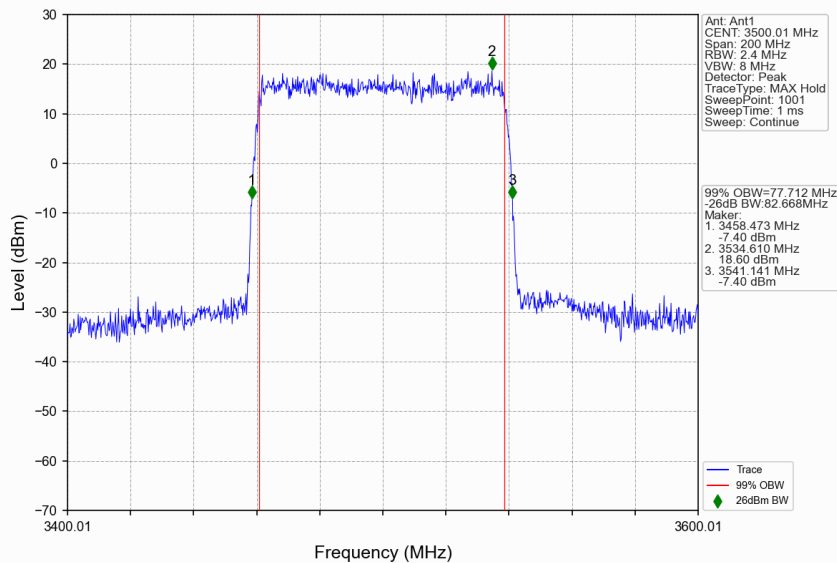
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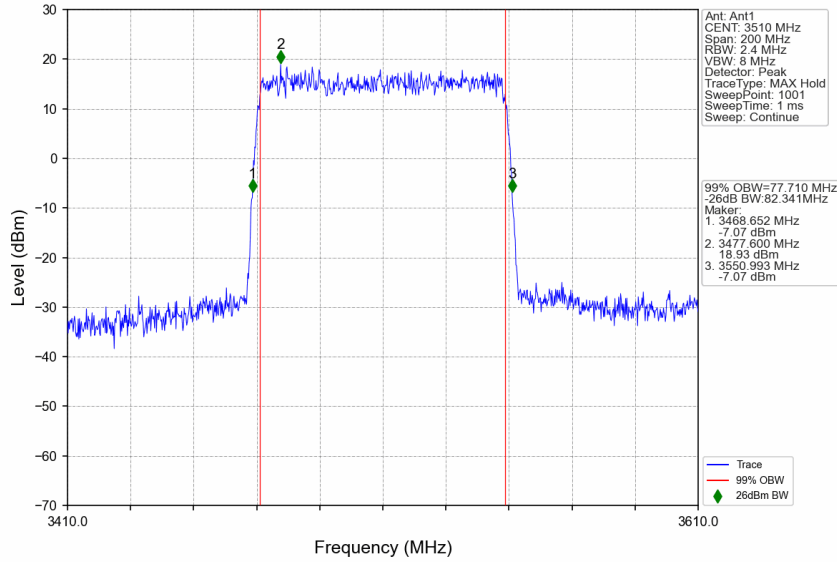


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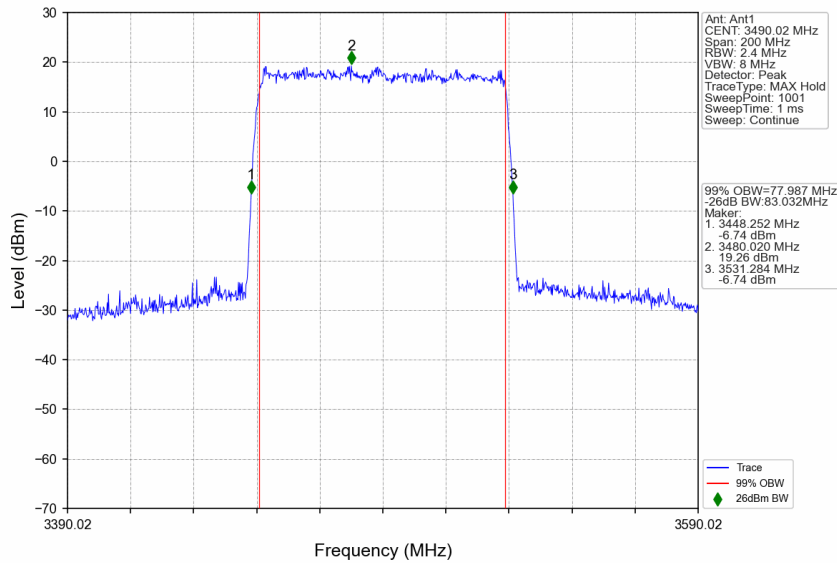
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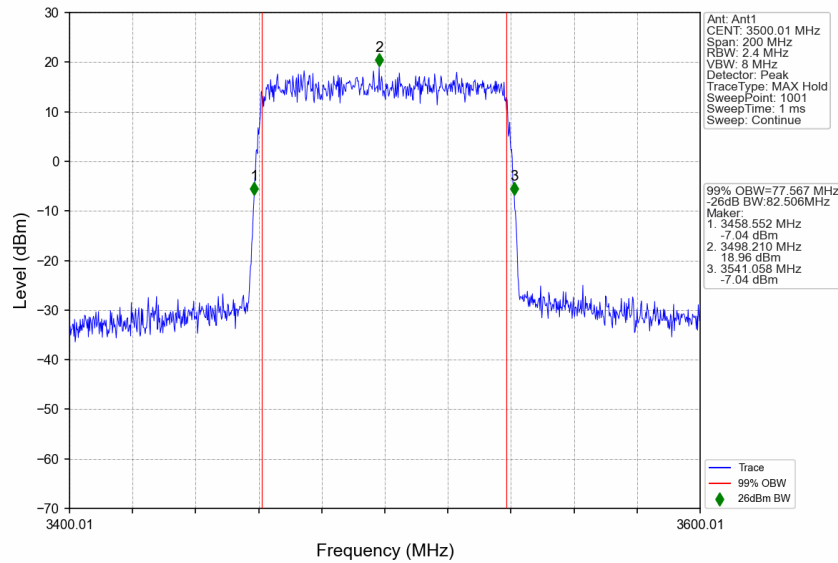


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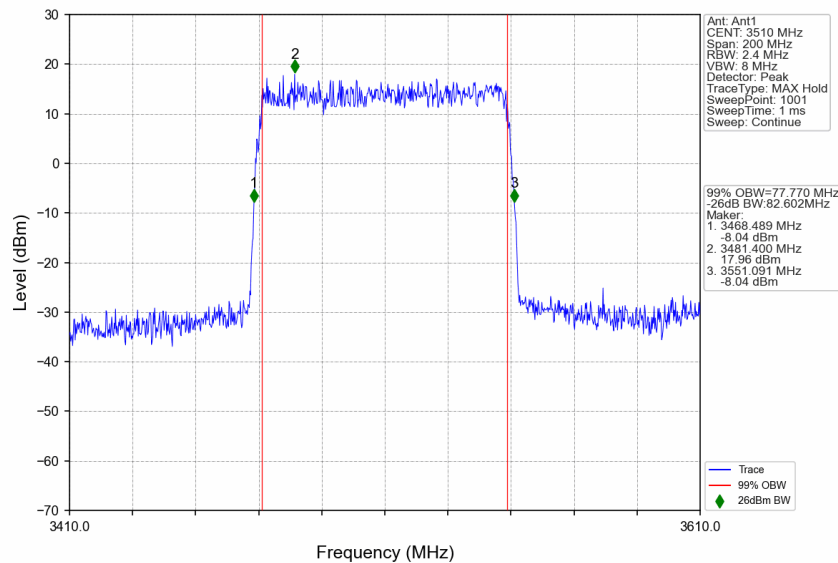
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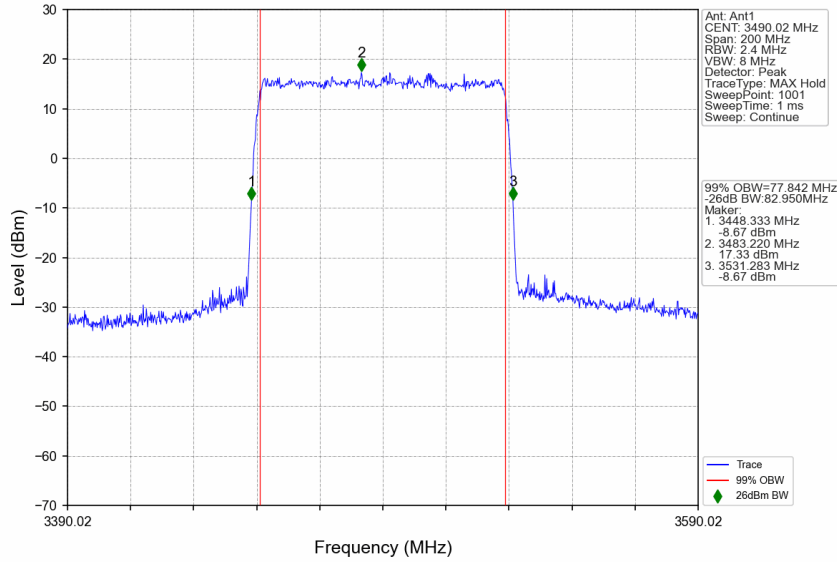


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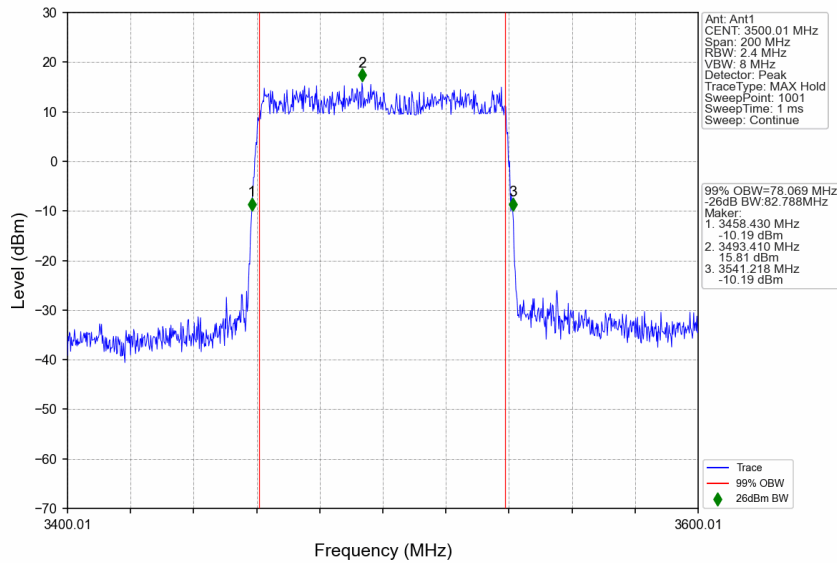
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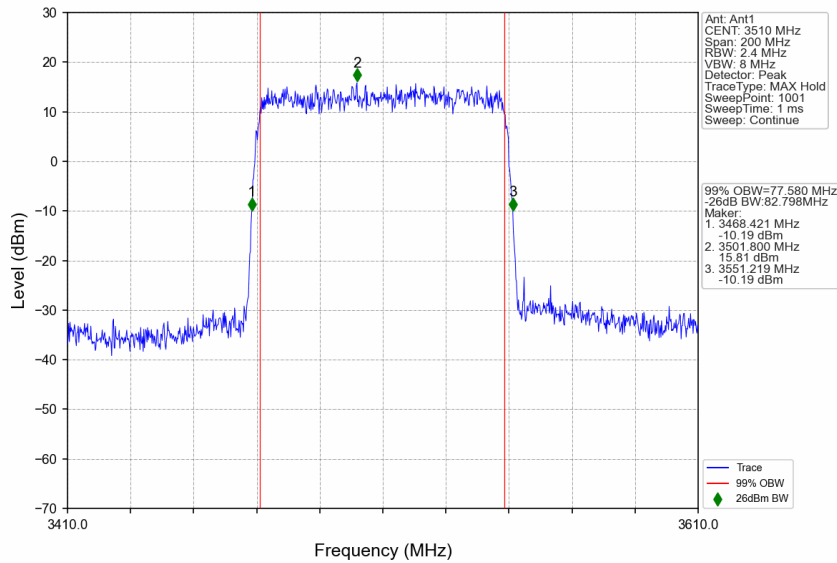


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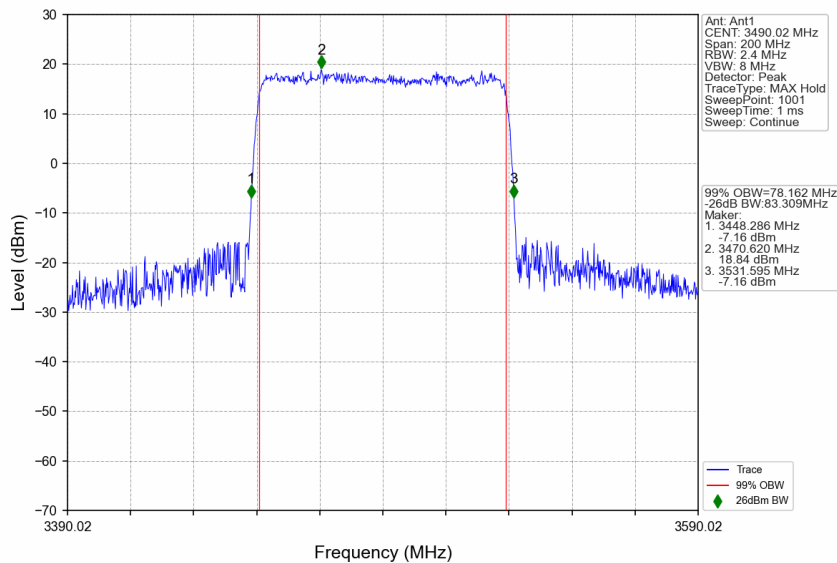
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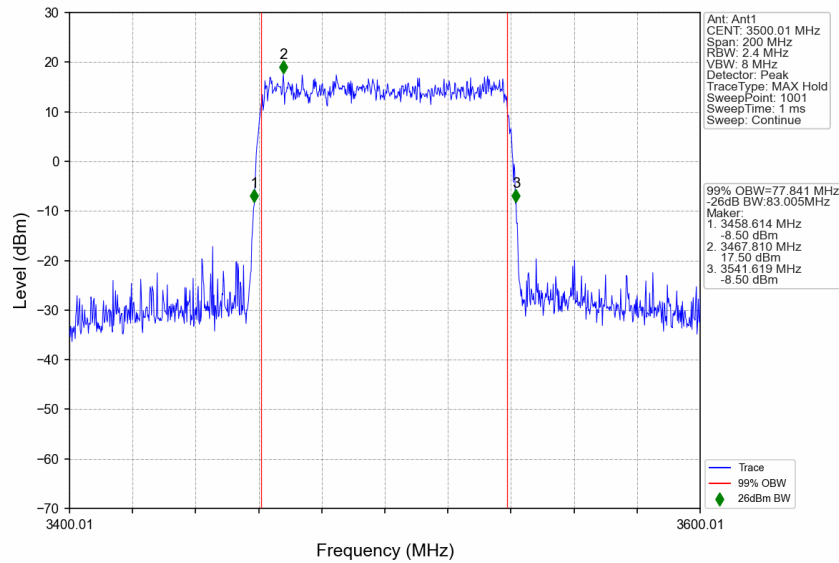


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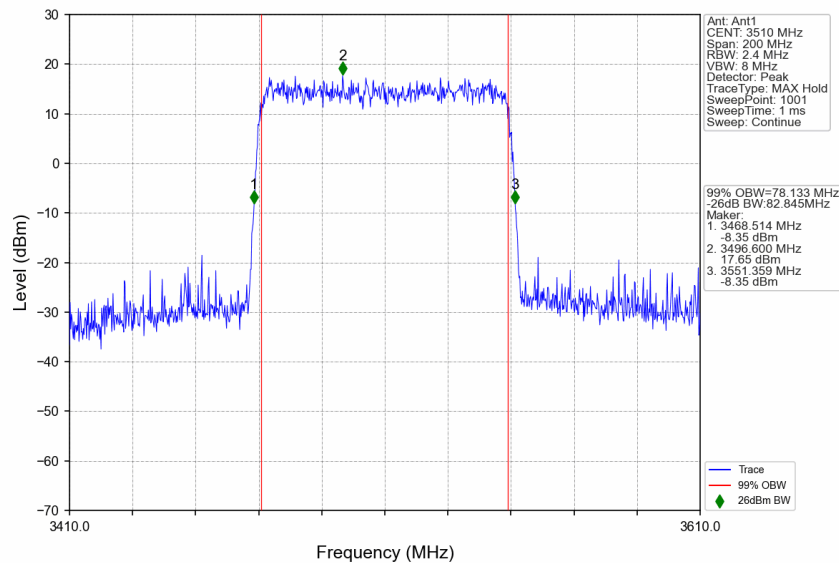
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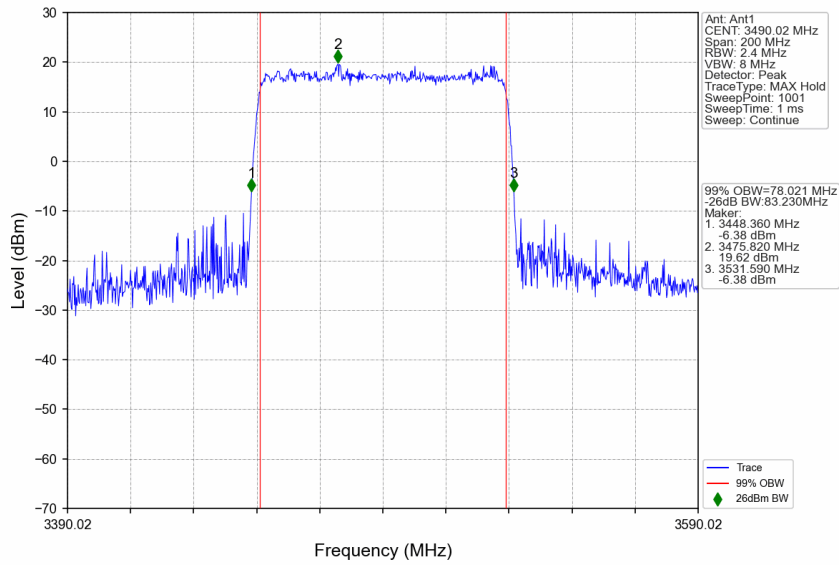


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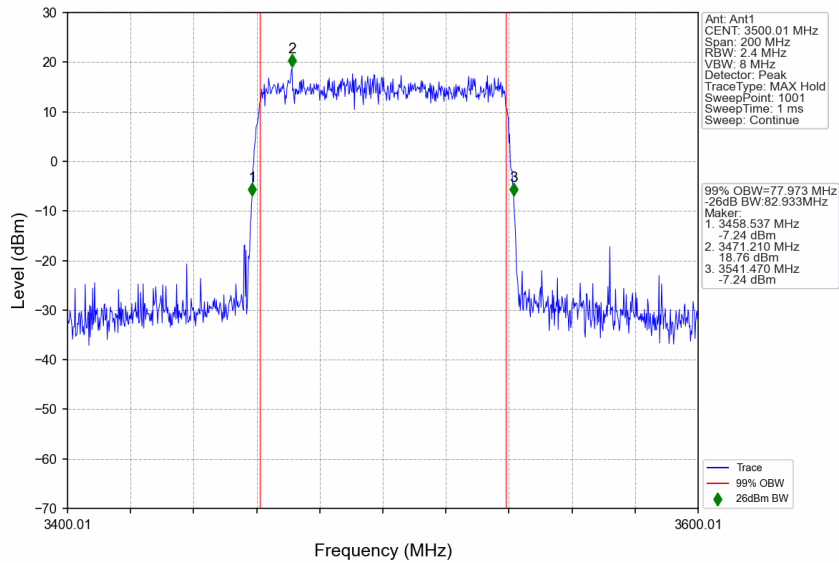
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n77d_30kHz_SISO_NTNV_80MHz_CP-OFDM 16 QAM_3490.02MHz_Outer_Full



n77d_30kHz_SISO_NTNV_80MHz_CP-OFDM 16 QAM_3500.01MHz_Outer_Full

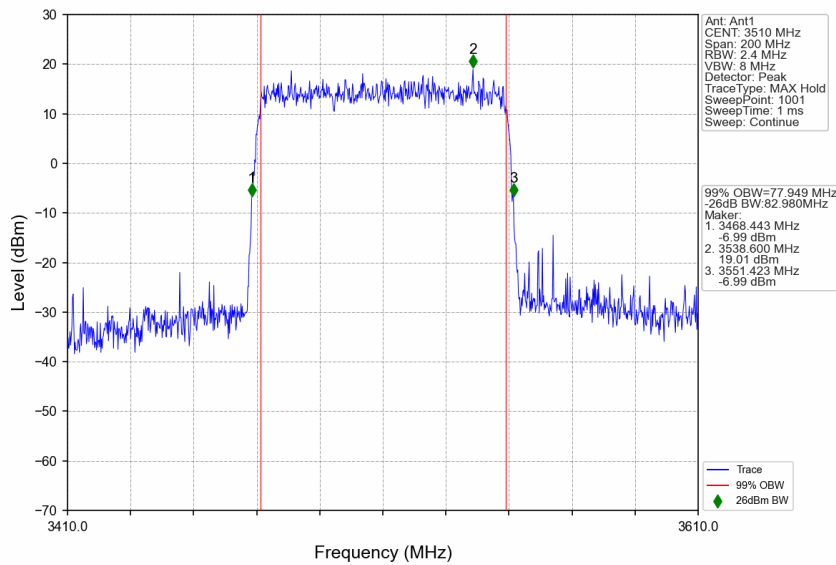


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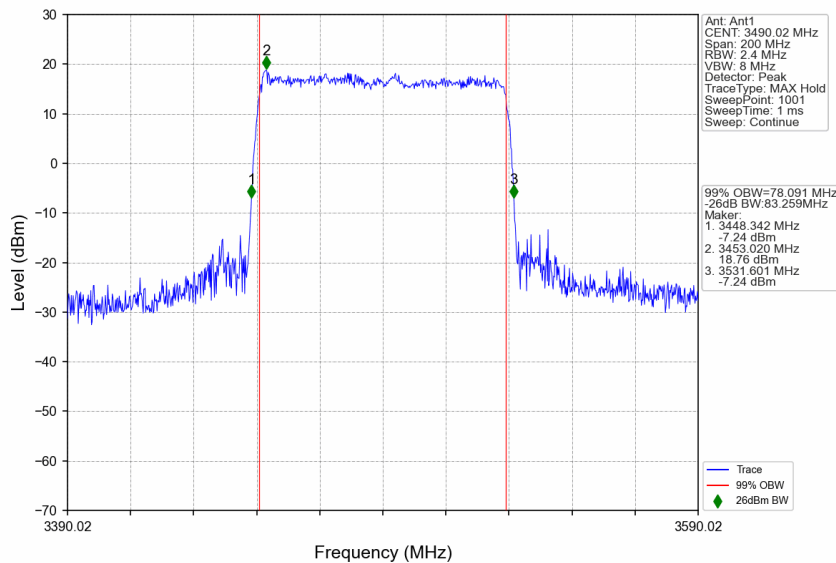
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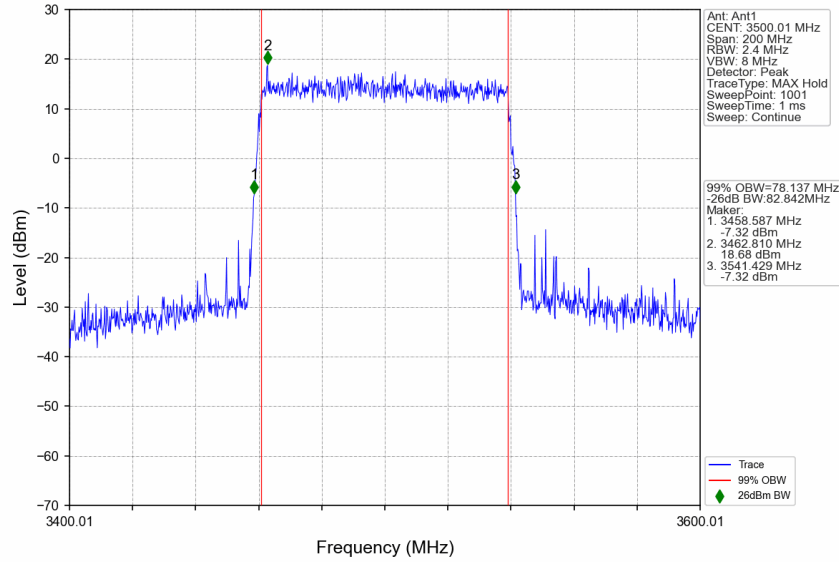


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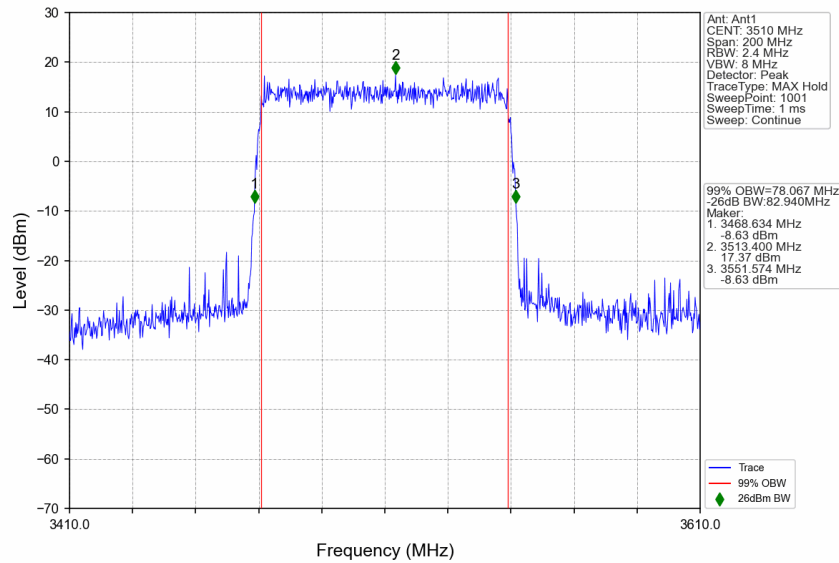
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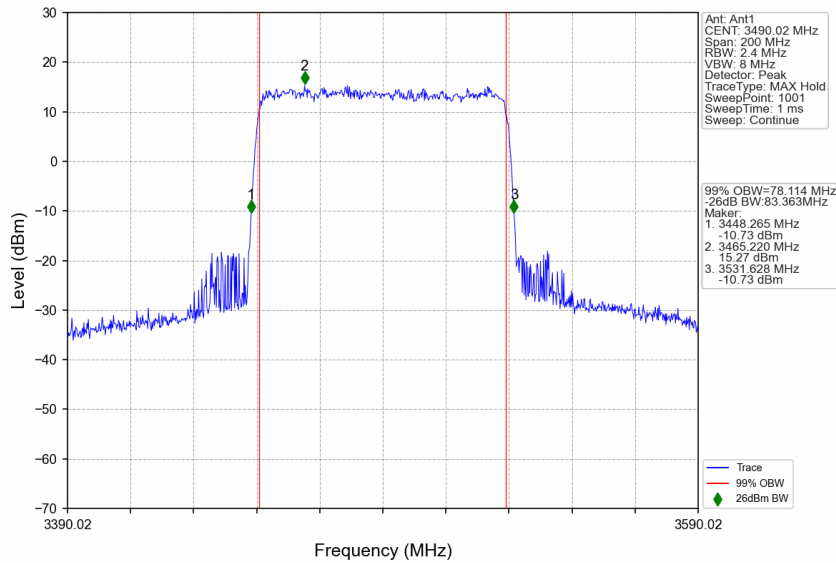


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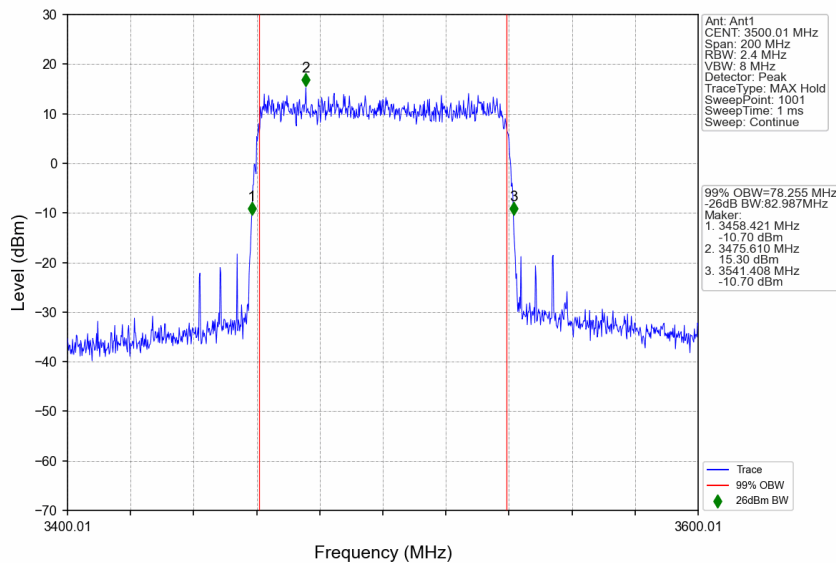
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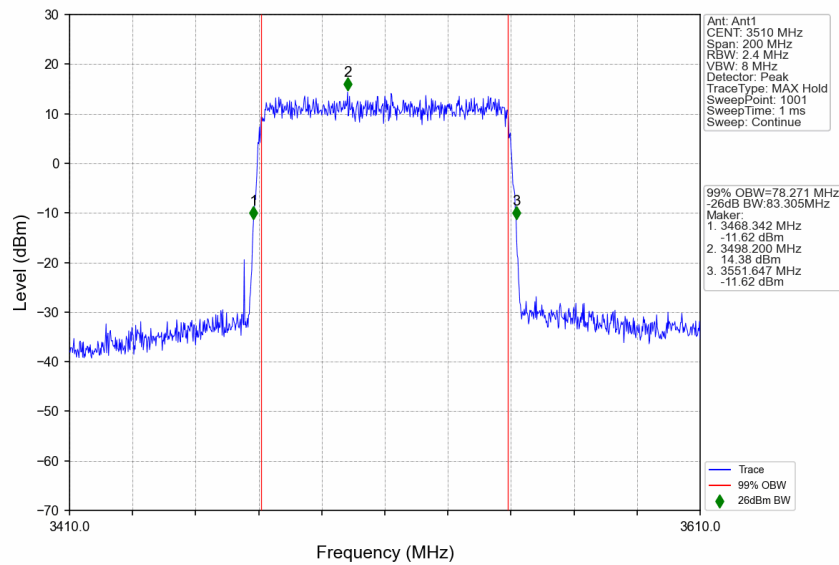


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n77d_30kHz_SISO_NTNV_80MHz_CP-OFDM 256 QAM_3510MHz_Outer_Full



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4.18 30k_SISO_90MHz_NTNV

4.18.1 Test Result

5G NR n77d SCS=30kHz SISO 90MHz NTNv						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3495	Outer_Full	87.39	93.29	/	Pass
	3500.01	Outer_Full	87.24	93.29	/	Pass
	3504.99	Outer_Full	87.40	93.00	/	Pass
DFT-s-OFDM QPSK	3495	Outer_Full	87.26	93.12	/	Pass
	3500.01	Outer_Full	87.53	93.01	/	Pass
	3504.99	Outer_Full	87.44	92.64	/	Pass
DFT-s-OFDM 16 QAM	3495	Outer_Full	87.20	92.93	/	Pass
	3500.01	Outer_Full	87.02	92.81	/	Pass
	3504.99	Outer_Full	86.87	93.05	/	Pass
DFT-s-OFDM 64 QAM	3495	Outer_Full	87.32	93.07	/	Pass
	3500.01	Outer_Full	87.29	92.99	/	Pass
	3504.99	Outer_Full	87.45	93.55	/	Pass
DFT-s-OFDM 256 QAM	3495	Outer_Full	87.35	93.46	/	Pass
	3500.01	Outer_Full	87.17	93.24	/	Pass
	3504.99	Outer_Full	87.40	93.08	/	Pass
CP-OFDM QPSK	3495	Outer_Full	88.06	93.50	/	Pass
	3500.01	Outer_Full	88.27	93.55	/	Pass
	3504.99	Outer_Full	88.05	96.29	/	Pass
CP-OFDM 16 QAM	3495	Outer_Full	87.78	93.73	/	Pass
	3500.01	Outer_Full	87.92	93.44	/	Pass
	3504.99	Outer_Full	87.92	93.71	/	Pass
CP-OFDM 64 QAM	3495	Outer_Full	88.00	94.07	/	Pass
	3500.01	Outer_Full	87.90	93.49	/	Pass
	3504.99	Outer_Full	87.92	93.69	/	Pass
CP-OFDM 256 QAM	3495	Outer_Full	88.01	93.79	/	Pass
	3500.01	Outer_Full	88.08	93.79	/	Pass
	3504.99	Outer_Full	87.75	93.63	/	Pass

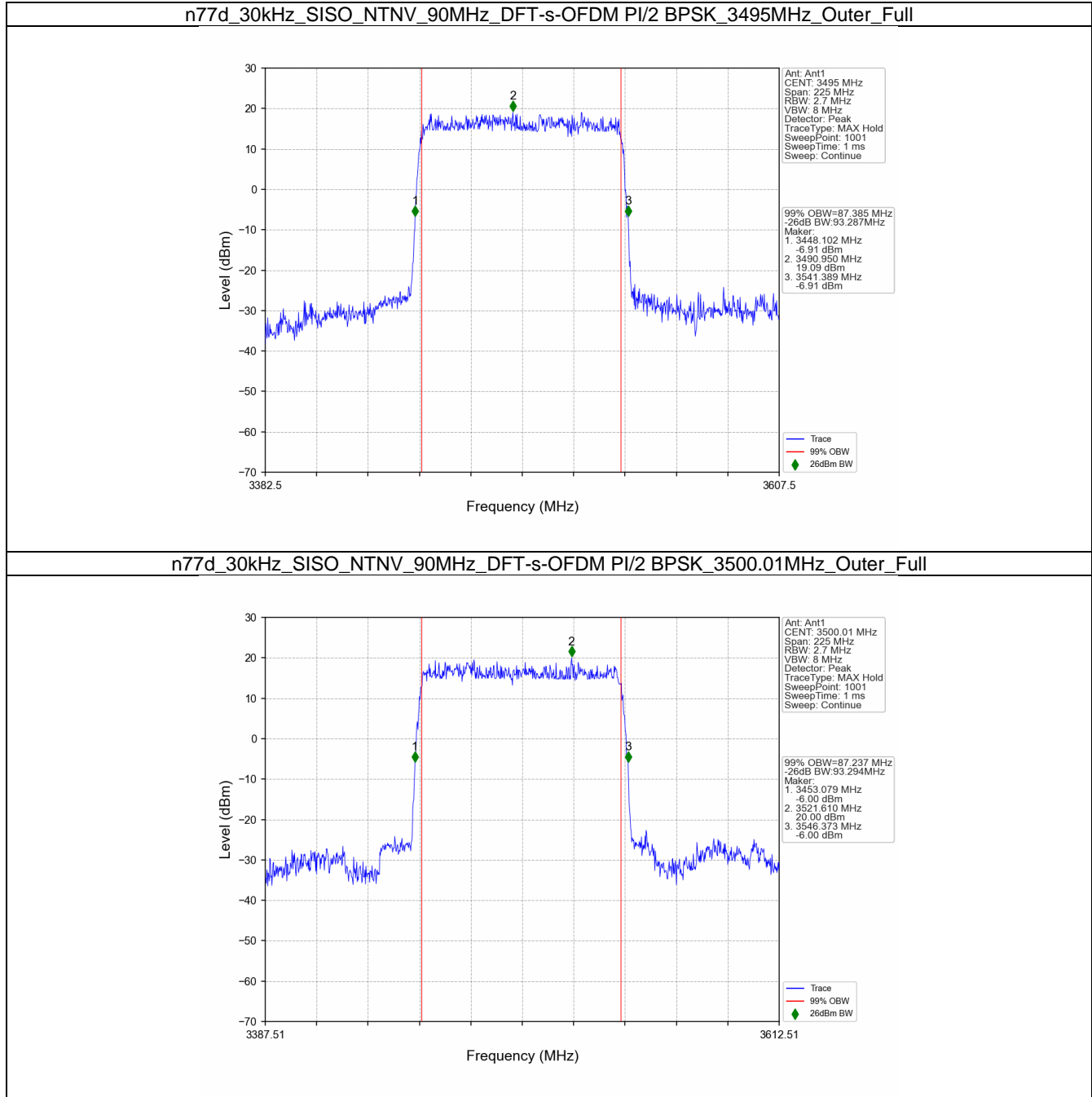


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4.18.2 Test Graph

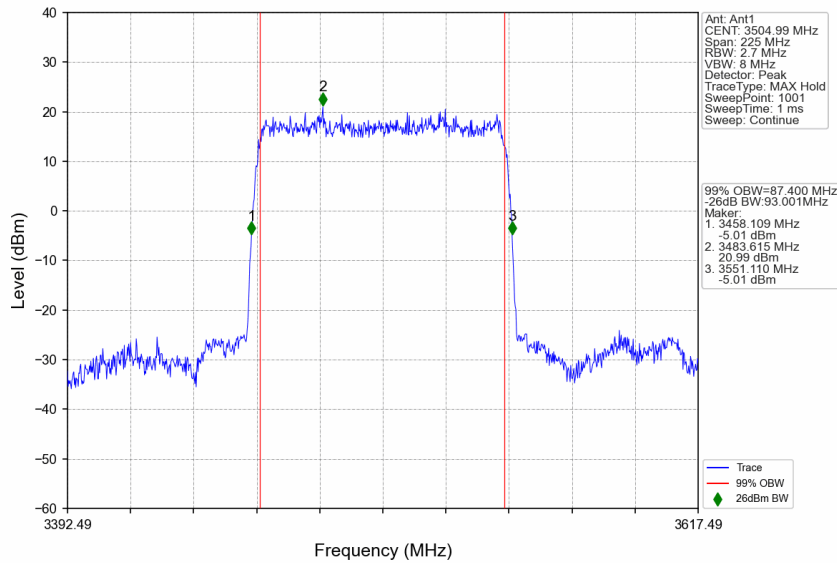


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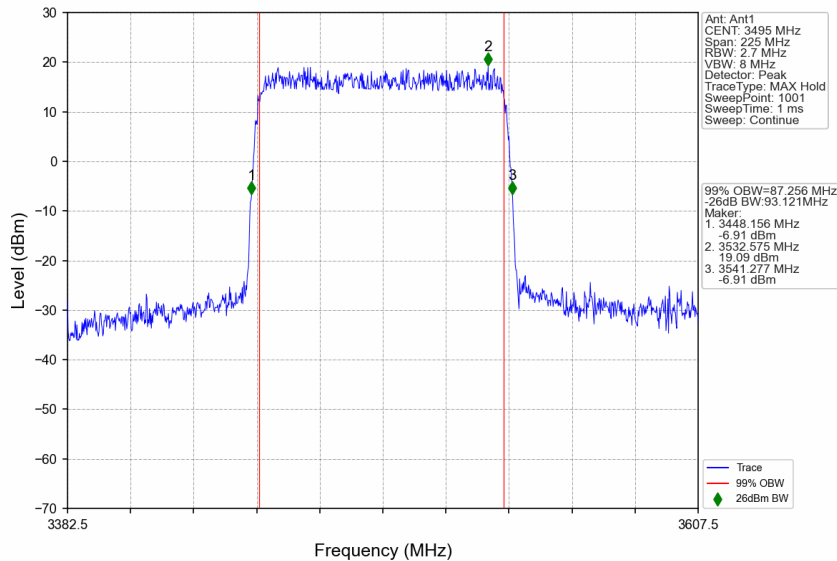
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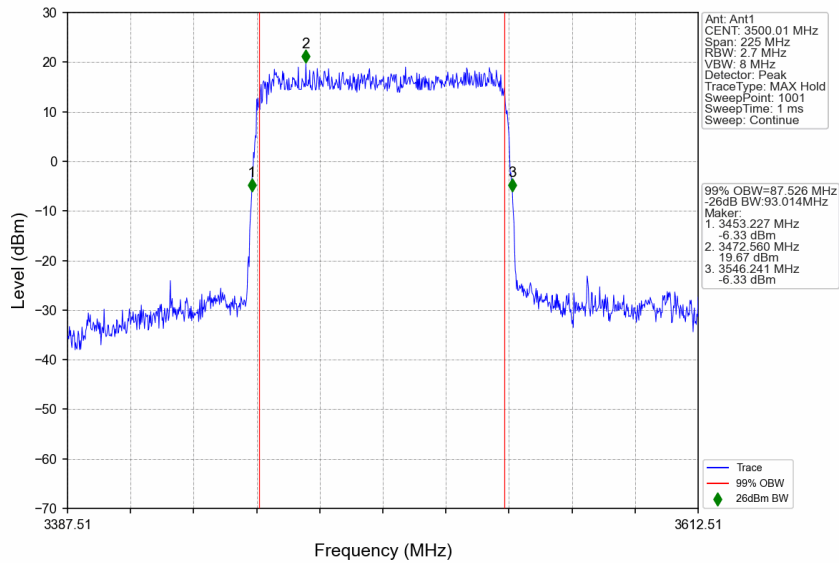


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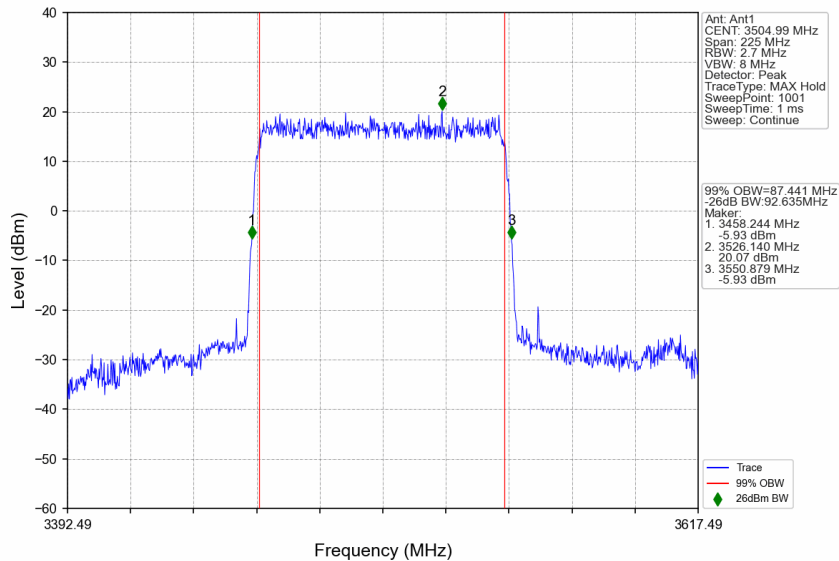
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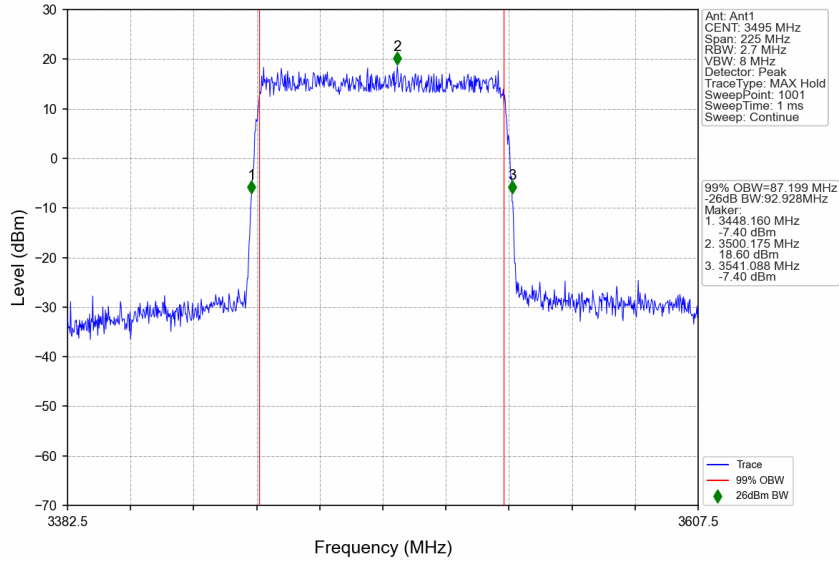


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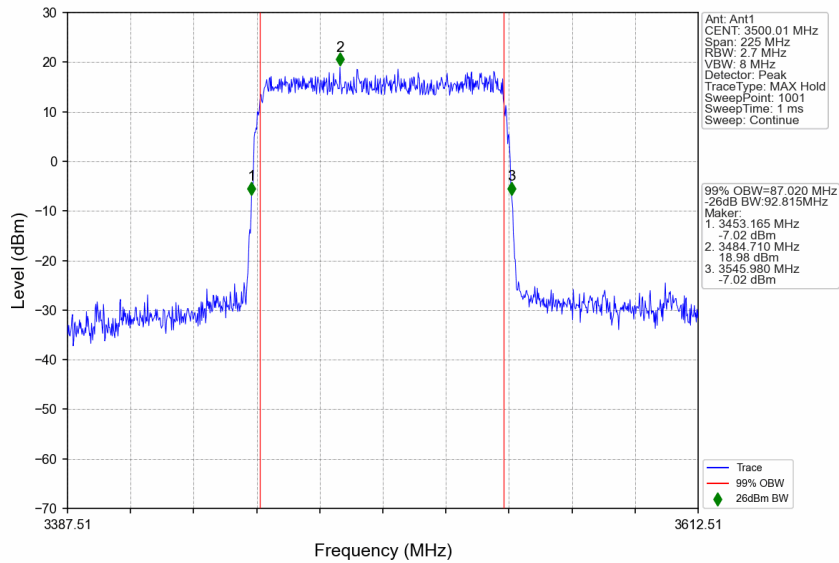
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