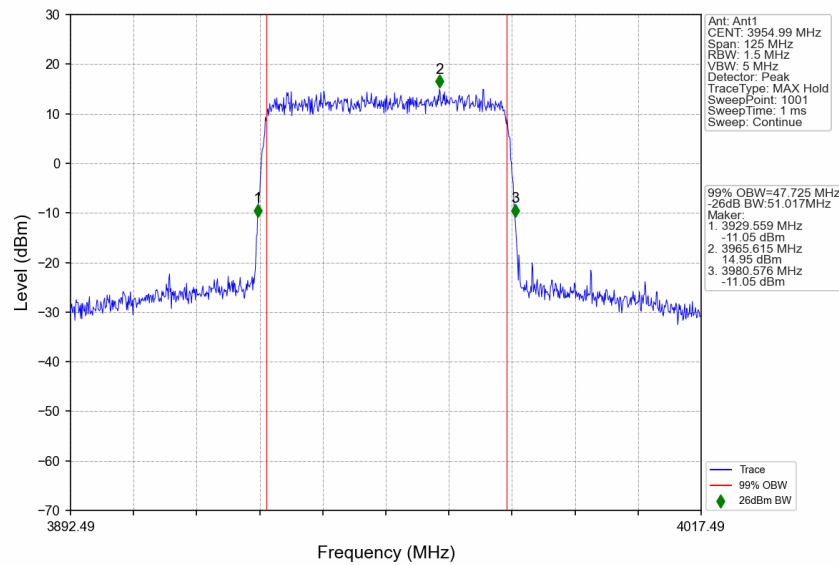


n77a\_30kHz\_SISO\_NTNV\_50MHz\_CP-OFDM 256 QAM\_3954.99MHz\_Outer\_Full



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4.15 30k\_SISO\_60MHz\_NTNV

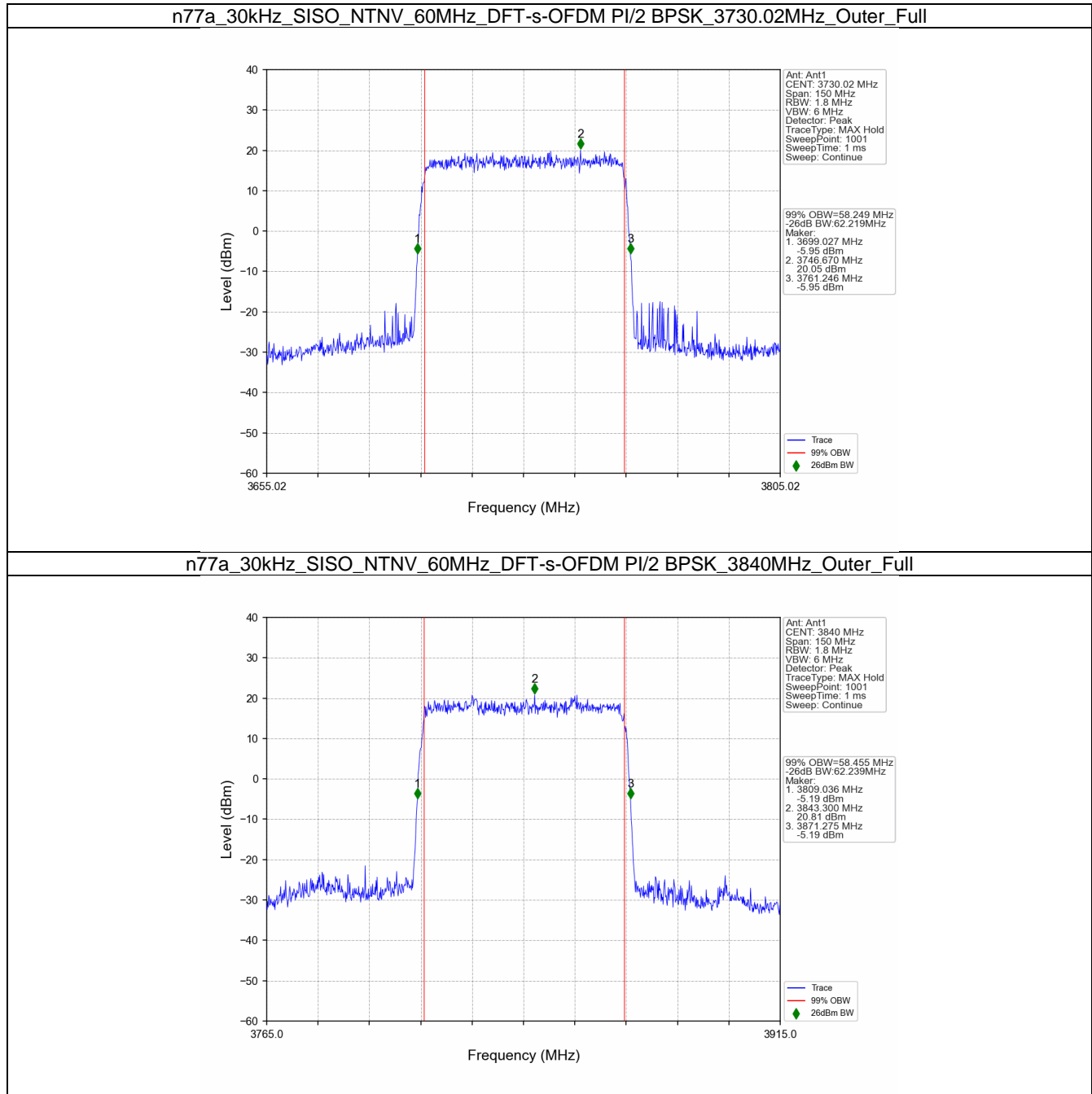
4.15.1 Test Result

Table with 7 columns: Modulation, Frequency (MHz), RB Allocation, 99% Bandwidth (MHz), 26dB Bandwidth (MHz), Limit (MHz), Verdict. Rows include various modulation schemes like DFT-s-OFDM PI/2 BPSK, DFT-s-OFDM QPSK, DFT-s-OFDM 16 QAM, DFT-s-OFDM 64 QAM, DFT-s-OFDM 256 QAM, CP-OFDM QPSK, CP-OFDM 16 QAM, CP-OFDM 64 QAM, and CP-OFDM 256 QAM.



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4.15.2 Test Graph

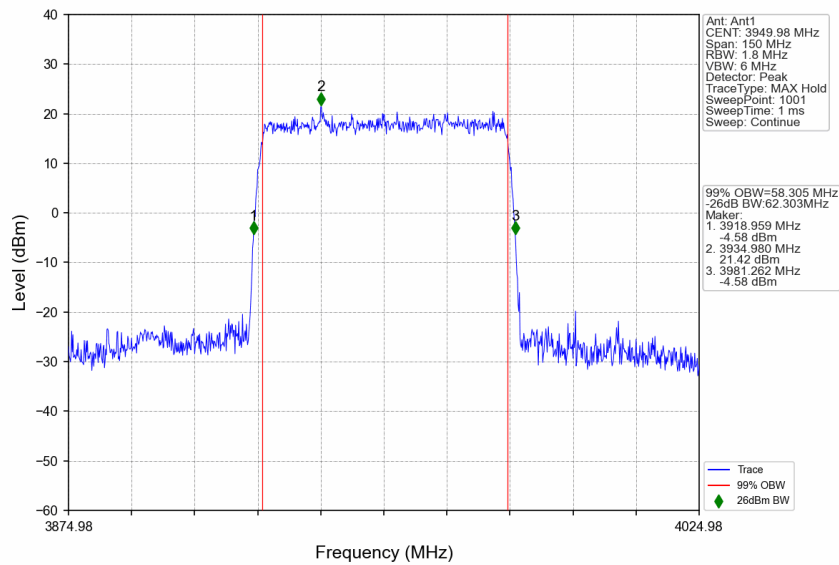


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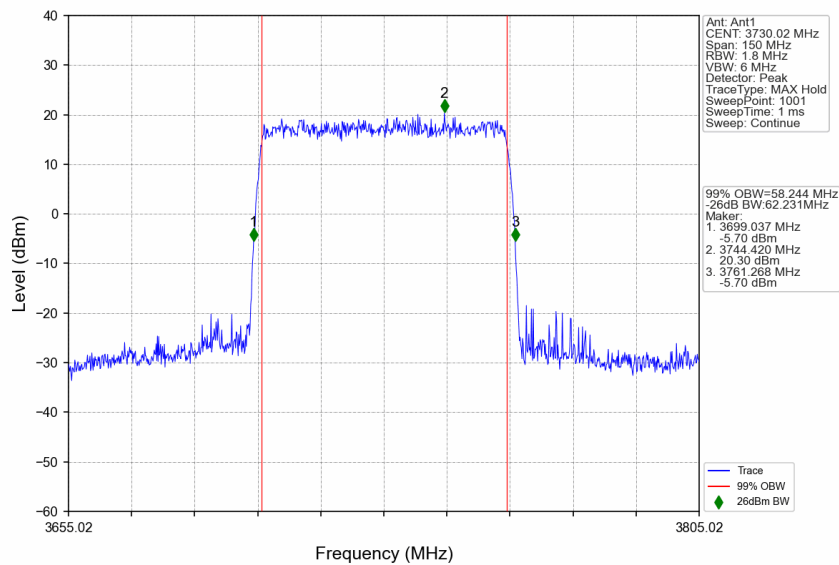
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n77a\_30kHz\_SISO\_NTNV\_60MHz\_DFT-s-OFDM PI/2 BPSK\_3949.98MHz\_Outer\_Full



n77a\_30kHz\_SISO\_NTNV\_60MHz\_DFT-s-OFDM QPSK\_3730.02MHz\_Outer\_Full

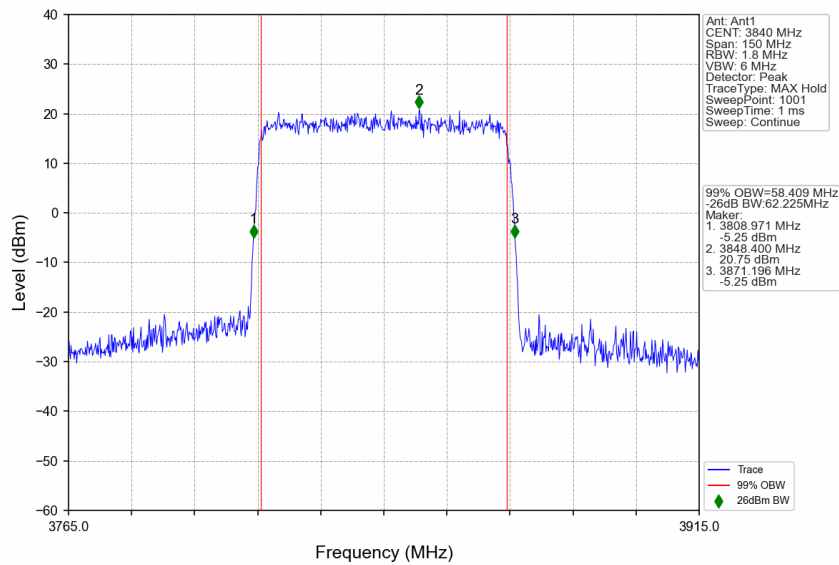


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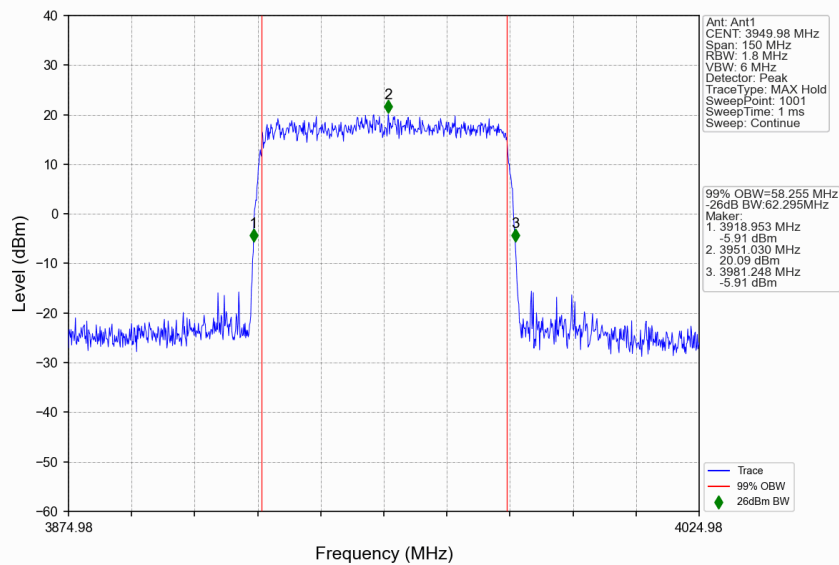
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n77a\_30kHz\_SISO\_NTNV\_60MHz\_DFT-s-OFDM QPSK\_3840MHz\_Outer\_Full



n77a\_30kHz\_SISO\_NTNV\_60MHz\_DFT-s-OFDM QPSK\_3949.98MHz\_Outer\_Full



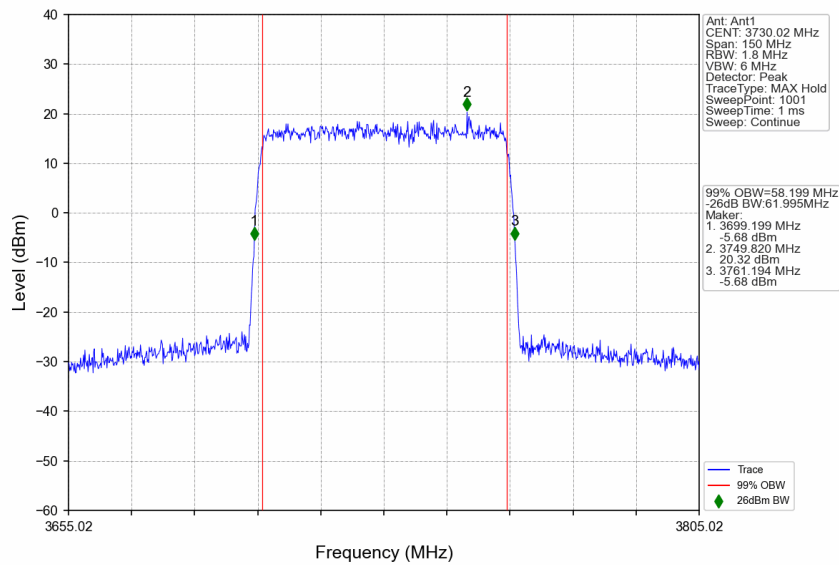
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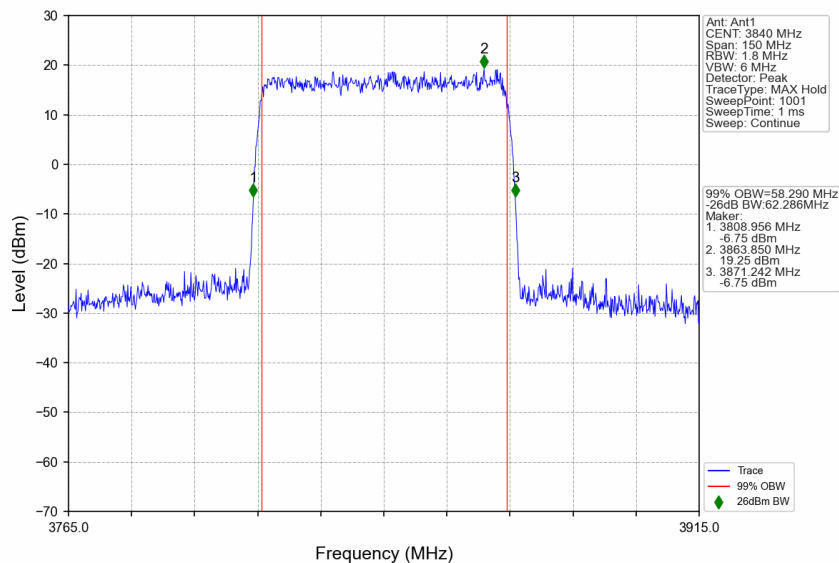
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n77a\_30kHz\_SISO\_NTNV\_60MHz\_DFT-s-OFDM 16 QAM\_3730.02MHz\_Outer\_Full



n77a\_30kHz\_SISO\_NTNV\_60MHz\_DFT-s-OFDM 16 QAM\_3840MHz\_Outer\_Full

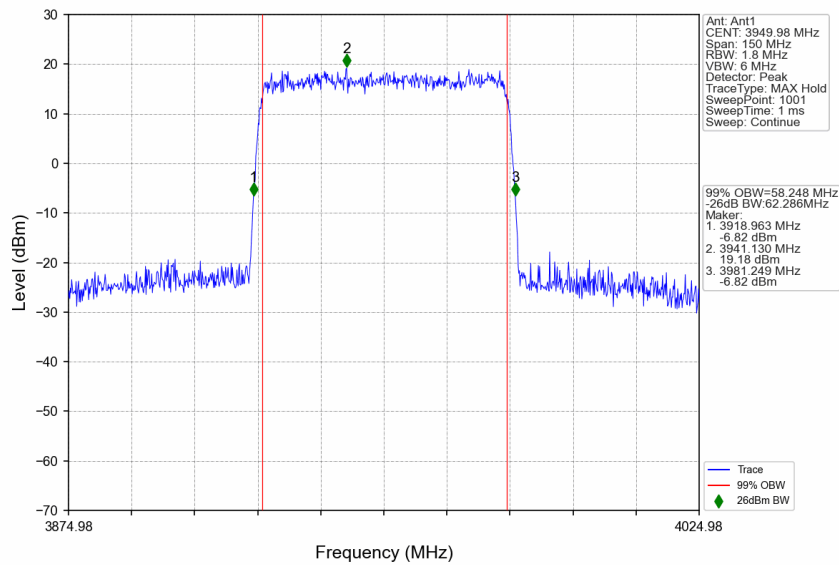


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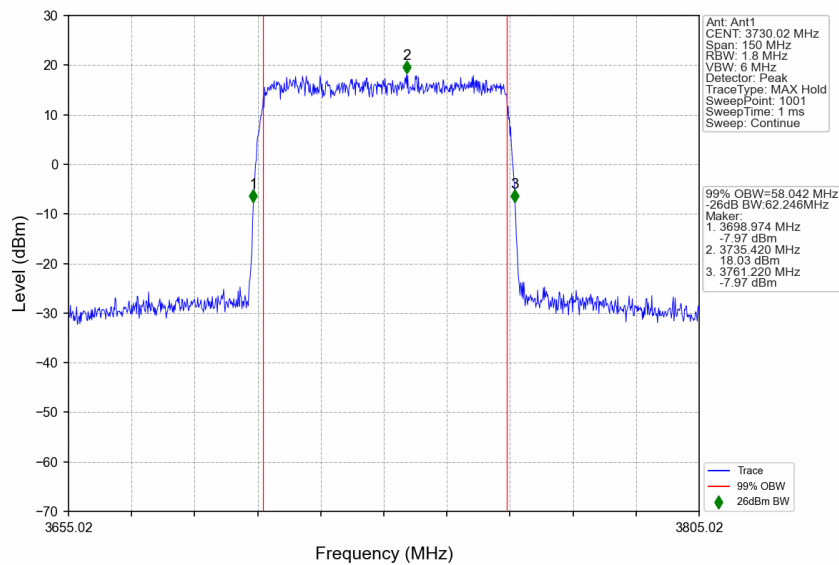
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n77a\_30kHz\_SISO\_NTNV\_60MHz\_DFT-s-OFDM 16 QAM\_3949.98MHz\_Outer\_Full



n77a\_30kHz\_SISO\_NTNV\_60MHz\_DFT-s-OFDM 64 QAM\_3730.02MHz\_Outer\_Full

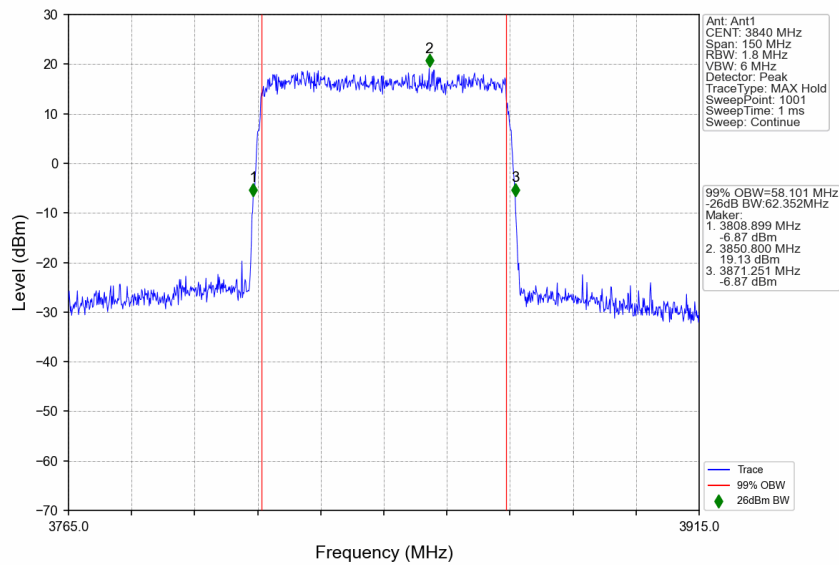


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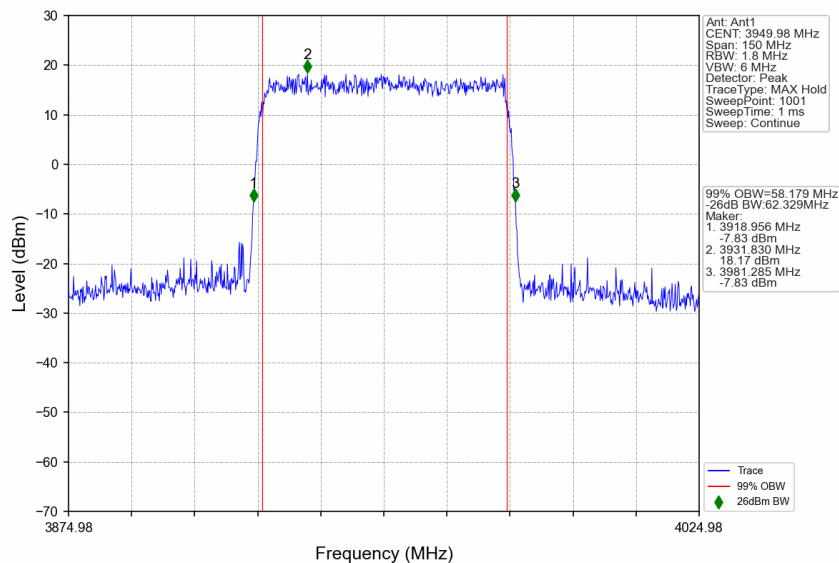
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n77a\_30kHz\_SISO\_NTNV\_60MHz\_DFT-s-OFDM 64 QAM\_3840MHz\_Outer\_Full



n77a\_30kHz\_SISO\_NTNV\_60MHz\_DFT-s-OFDM 64 QAM\_3949.98MHz\_Outer\_Full



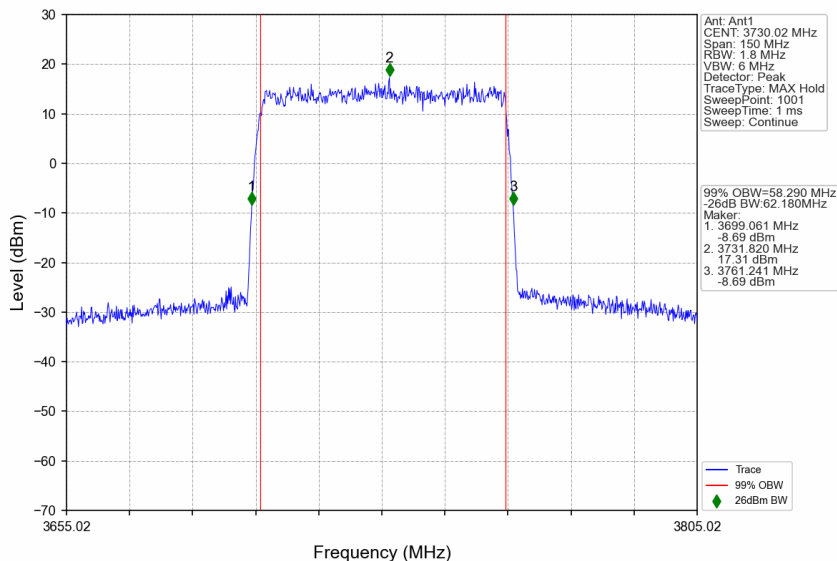
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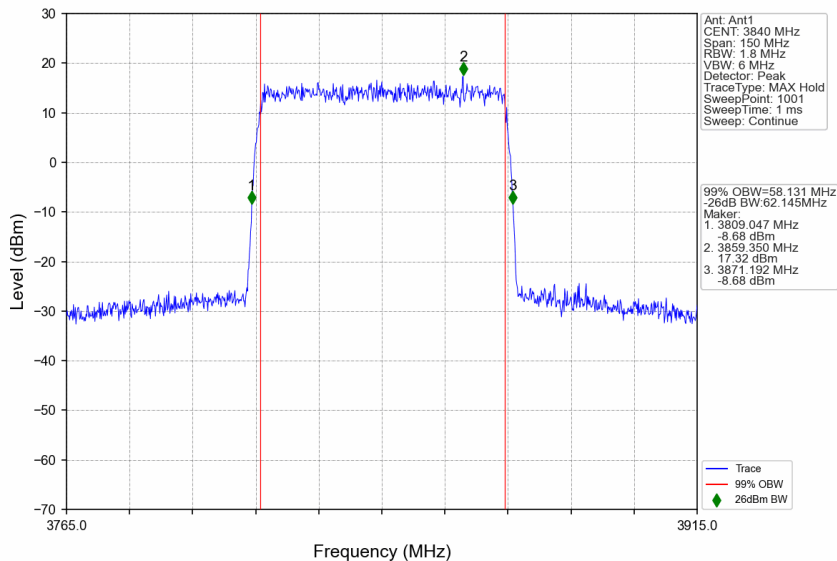
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n77a\_30kHz\_SISO\_NTNV\_60MHz\_DFT-s-OFDM 256 QAM\_3730.02MHz\_Outer\_Full



n77a\_30kHz\_SISO\_NTNV\_60MHz\_DFT-s-OFDM 256 QAM\_3840MHz\_Outer\_Full

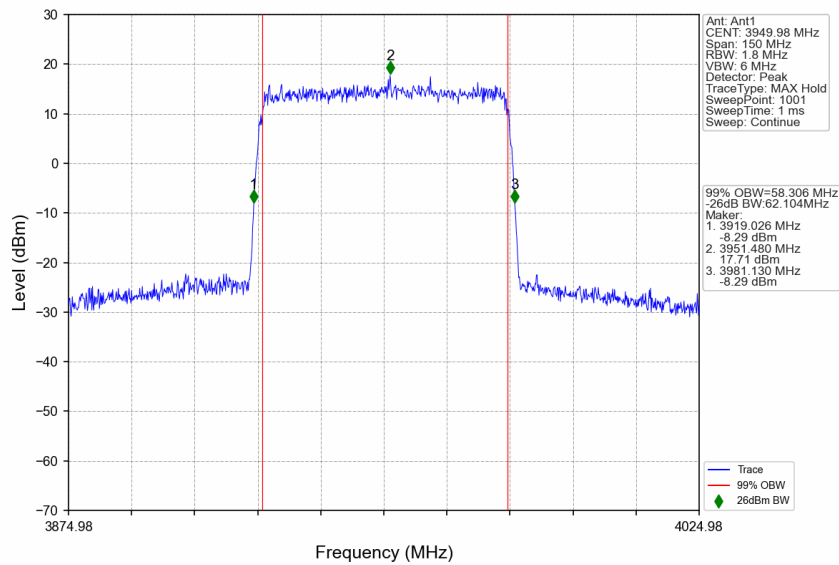


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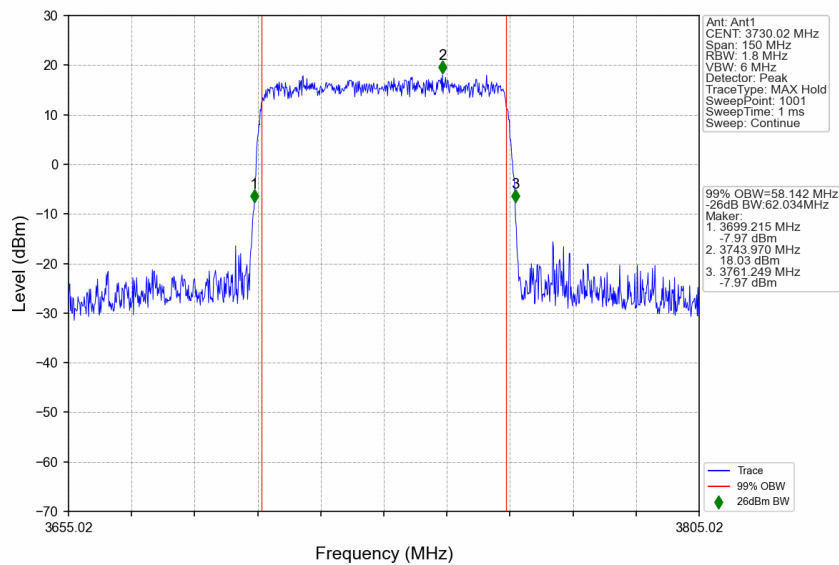
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n77a\_30kHz\_SISO\_NTNV\_60MHz\_CP-OFDM QPSK\_3730.02MHz\_Outer\_Full

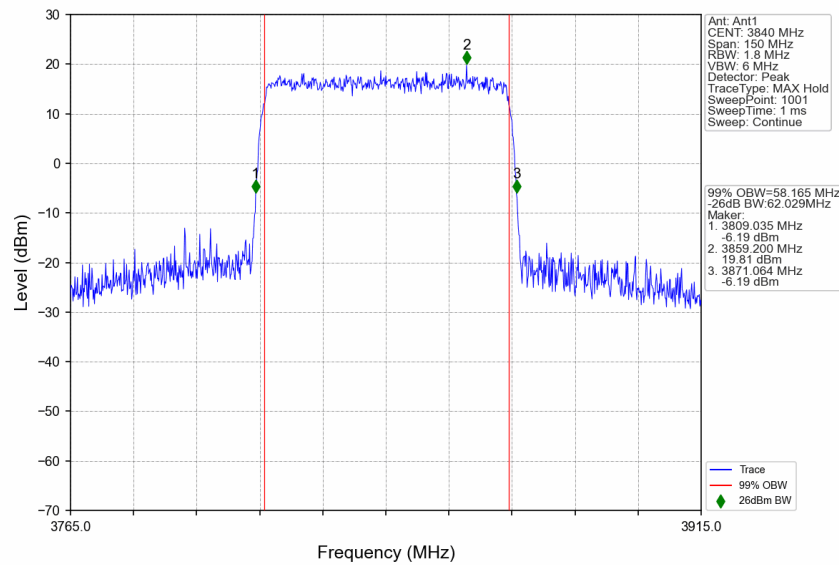


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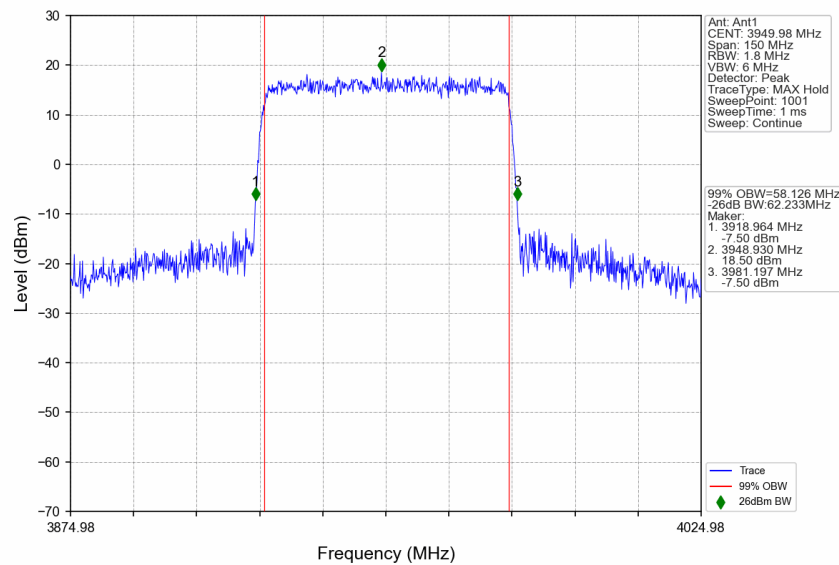
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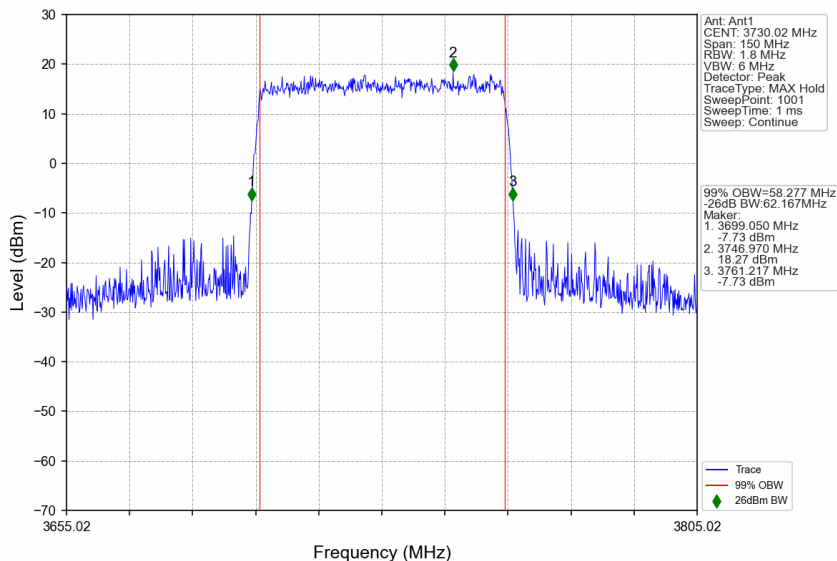


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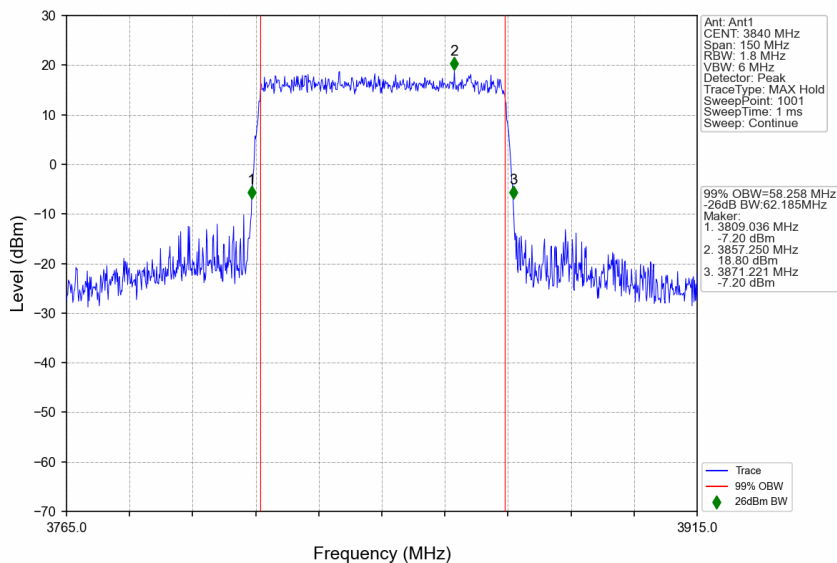
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n77a\_30kHz\_SISO\_NTNV\_60MHz\_CP-OFDM 16 QAM\_3840MHz\_Outer\_Full

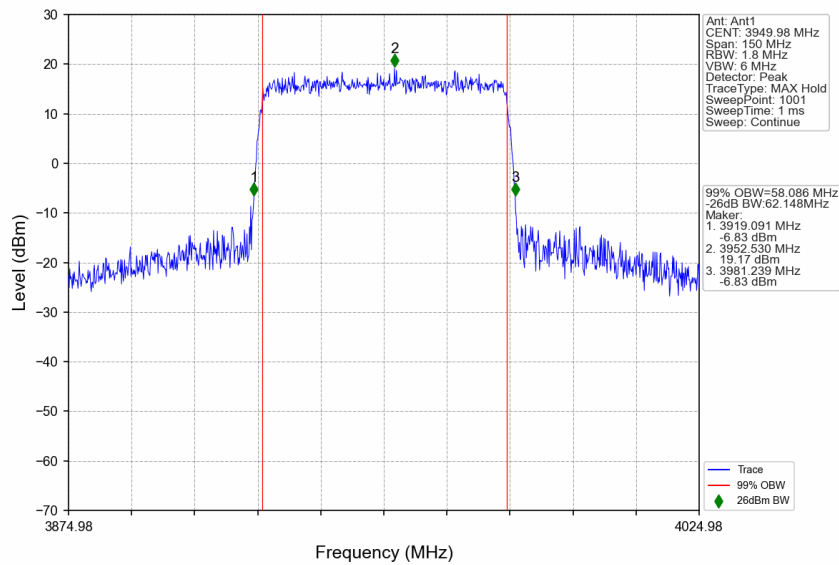


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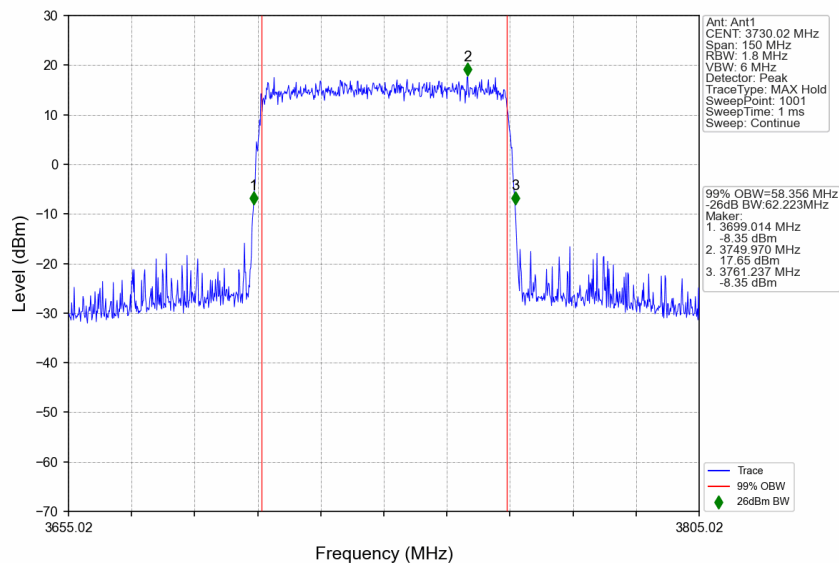
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n77a\_30kHz\_SISO\_NTNV\_60MHz\_CP-OFDM 16 QAM\_3949.98MHz\_Outer\_Full



n77a\_30kHz\_SISO\_NTNV\_60MHz\_CP-OFDM 64 QAM\_3730.02MHz\_Outer\_Full



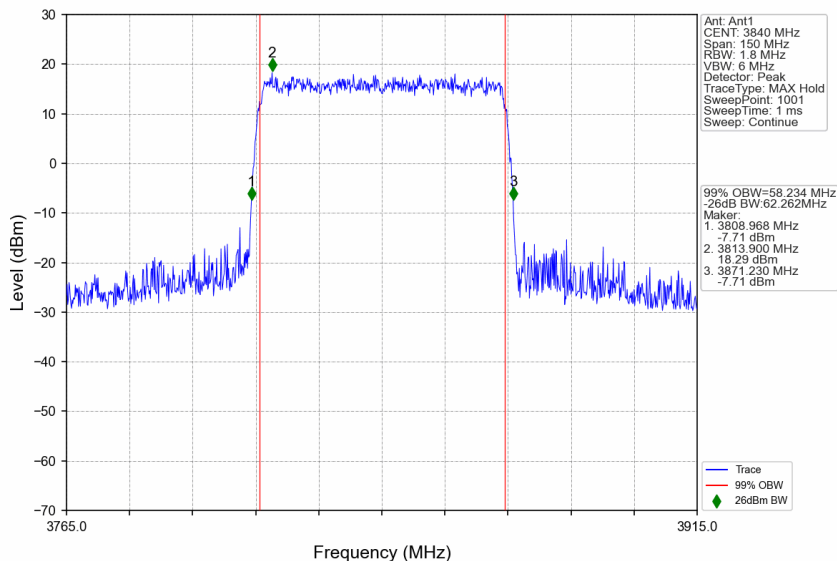
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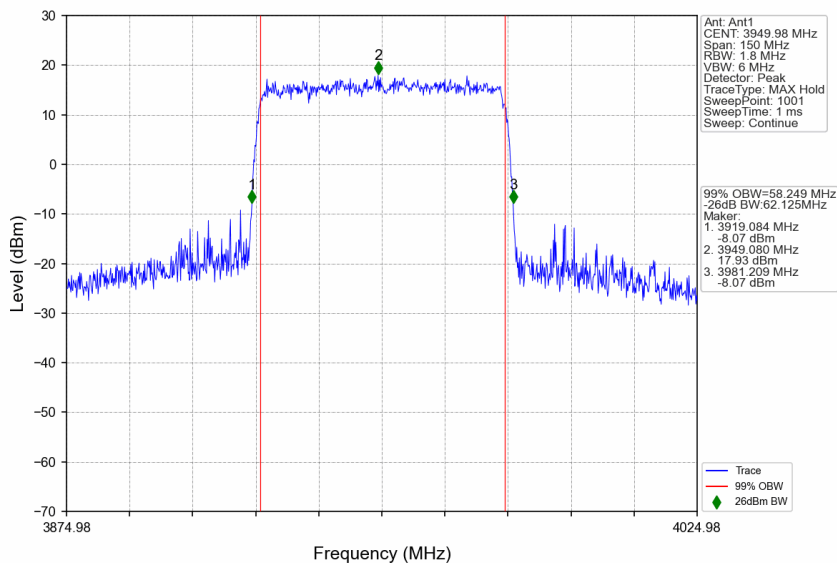
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n77a\_30kHz\_SISO\_NTNV\_60MHz\_CP-OFDM 64 QAM\_3840MHz\_Outer\_Full



n77a\_30kHz\_SISO\_NTNV\_60MHz\_CP-OFDM 64 QAM\_3949.98MHz\_Outer\_Full

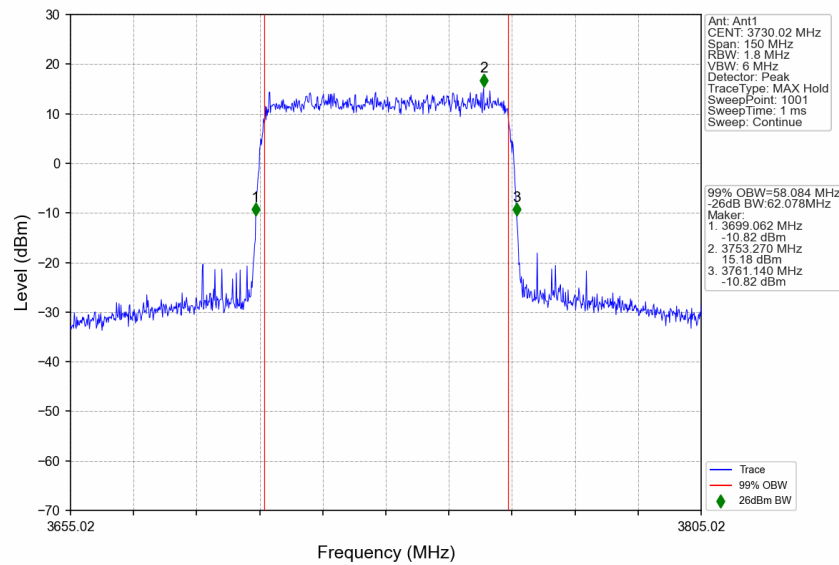


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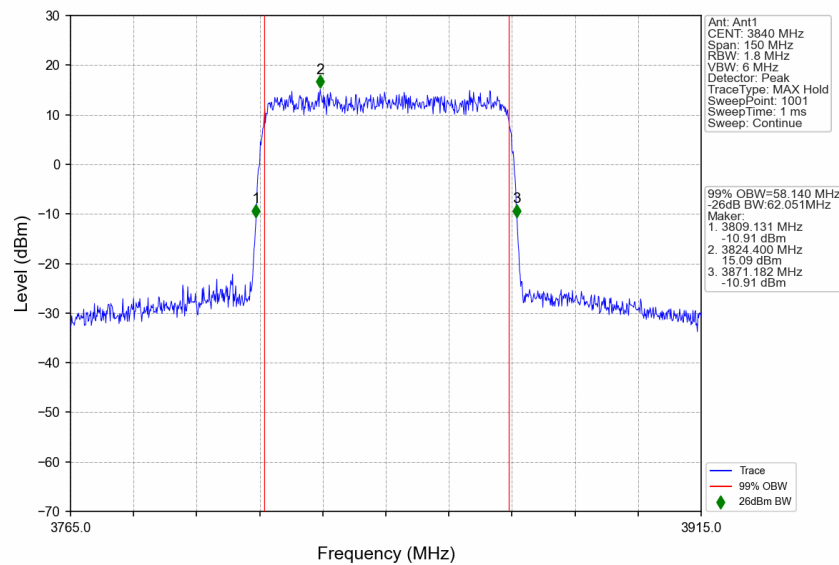
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n77a\_30kHz\_SISO\_NTNV\_60MHz\_CP-OFDM 256 QAM\_3730.02MHz\_Outer\_Full



n77a\_30kHz\_SISO\_NTNV\_60MHz\_CP-OFDM 256 QAM\_3840MHz\_Outer\_Full



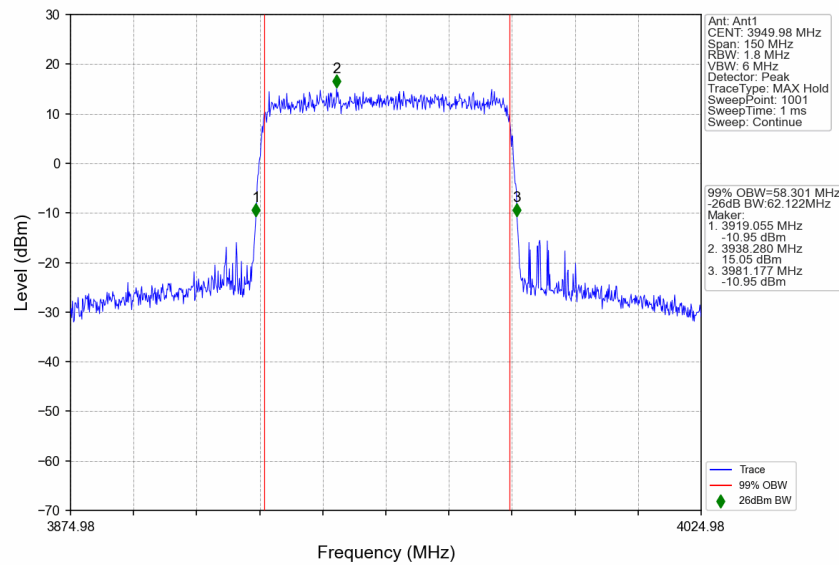
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4.16 30k\_SISO\_70MHz\_NTNV

4.16.1 Test Result

5G NR n77a 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	3735	Outer_Full	64.89	69.45	/	Pass
	3840	Outer_Full	65.06	69.31	/	Pass
	3945	Outer_Full	65.10	69.45	/	Pass
DFT-s-OFDM QPSK	3735	Outer_Full	64.92	69.58	/	Pass
	3840	Outer_Full	64.74	69.42	/	Pass
	3945	Outer_Full	64.99	69.45	/	Pass
DFT-s-OFDM 16 QAM	3735	Outer_Full	64.98	69.35	/	Pass
	3840	Outer_Full	64.89	69.42	/	Pass
	3945	Outer_Full	64.71	69.53	/	Pass
DFT-s-OFDM 64 QAM	3735	Outer_Full	65.15	69.49	/	Pass
	3840	Outer_Full	65.14	69.62	/	Pass
	3945	Outer_Full	64.70	69.49	/	Pass
DFT-s-OFDM 256 QAM	3735	Outer_Full	64.84	69.35	/	Pass
	3840	Outer_Full	64.83	69.51	/	Pass
	3945	Outer_Full	64.64	69.42	/	Pass
CP-OFDM QPSK	3735	Outer_Full	68.12	72.61	/	Pass
	3840	Outer_Full	68.00	72.48	/	Pass
	3945	Outer_Full	68.27	72.83	/	Pass
CP-OFDM 16 QAM	3735	Outer_Full	68.06	72.59	/	Pass
	3840	Outer_Full	68.12	72.73	/	Pass
	3945	Outer_Full	68.19	72.76	/	Pass
CP-OFDM 64 QAM	3735	Outer_Full	68.13	72.53	/	Pass
	3840	Outer_Full	68.14	72.53	/	Pass
	3945	Outer_Full	67.91	72.75	/	Pass
CP-OFDM 256 QAM	3735	Outer_Full	68.01	72.49	/	Pass
	3840	Outer_Full	68.14	72.70	/	Pass
	3945	Outer_Full	67.89	72.87	/	Pass

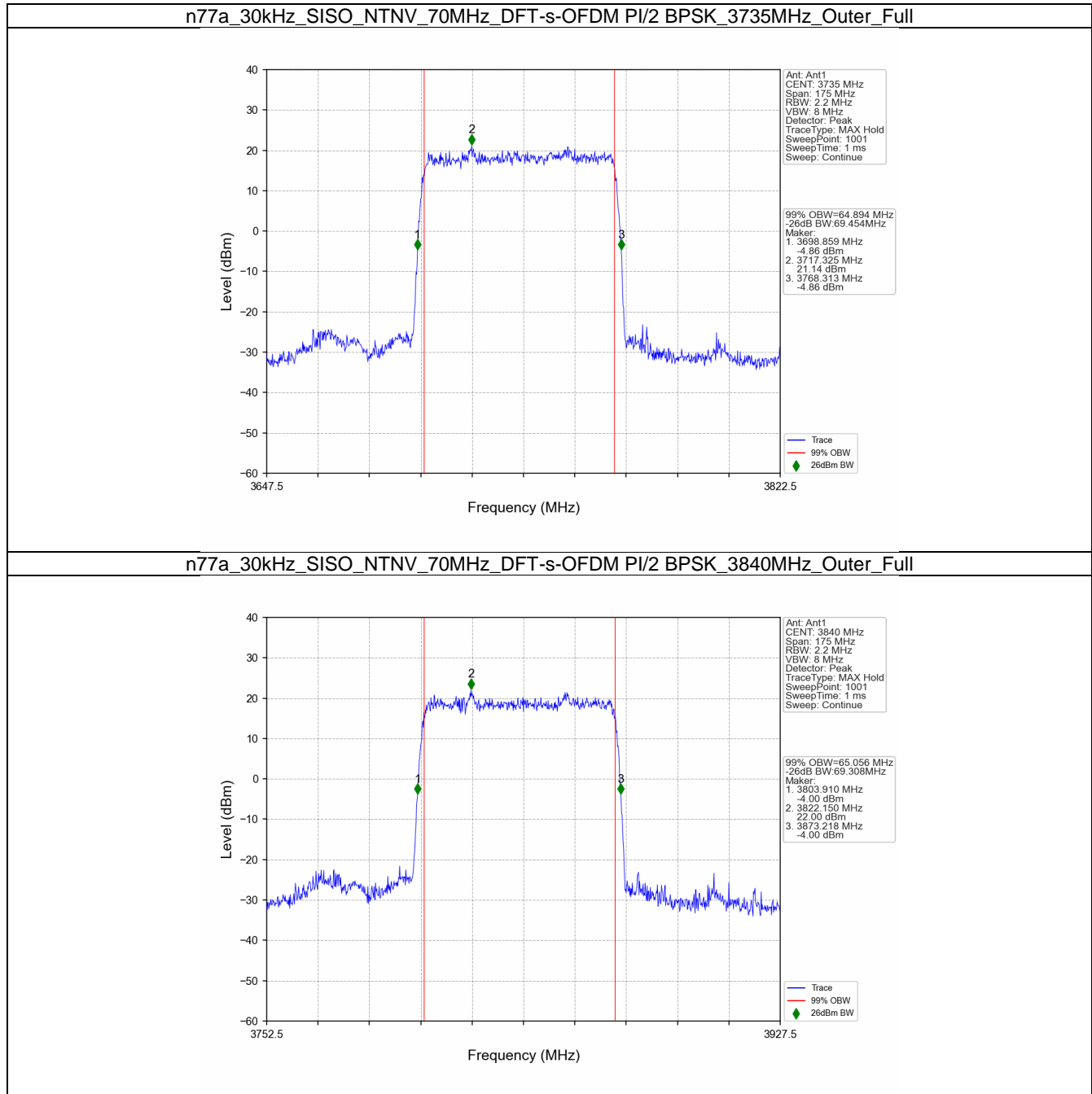


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4.16.2 Test Graph



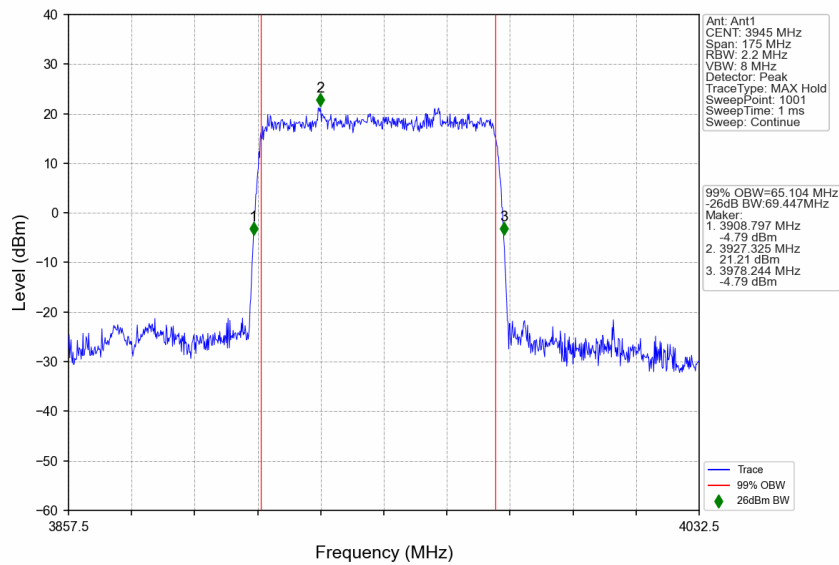
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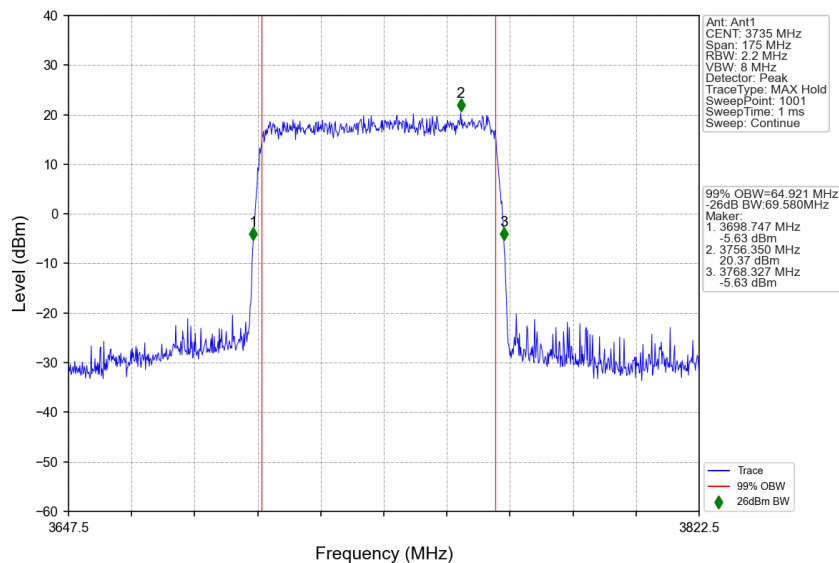
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n77a\_30kHz\_SISO\_NTNV\_70MHz\_DFT-s-OFDM PI/2 BPSK\_3945MHz\_Outer\_Full



n77a\_30kHz\_SISO\_NTNV\_70MHz\_DFT-s-OFDM QPSK\_3735MHz\_Outer\_Full

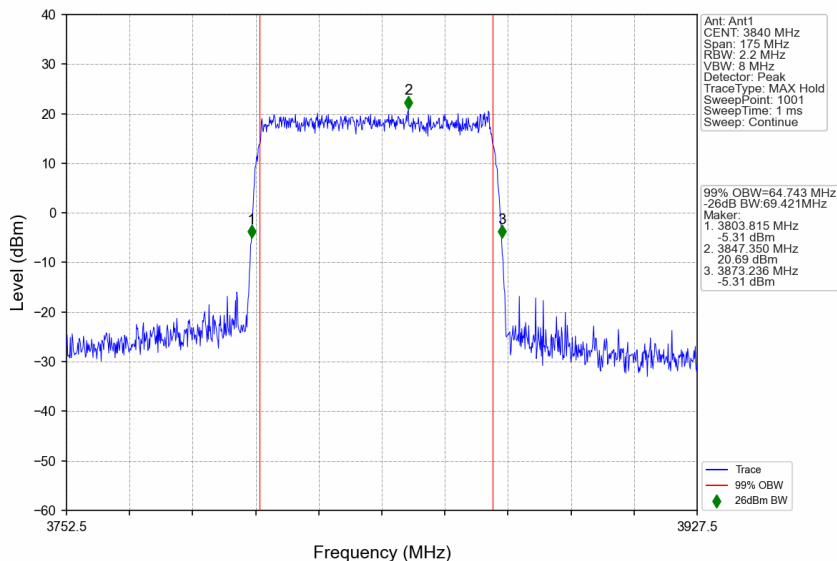


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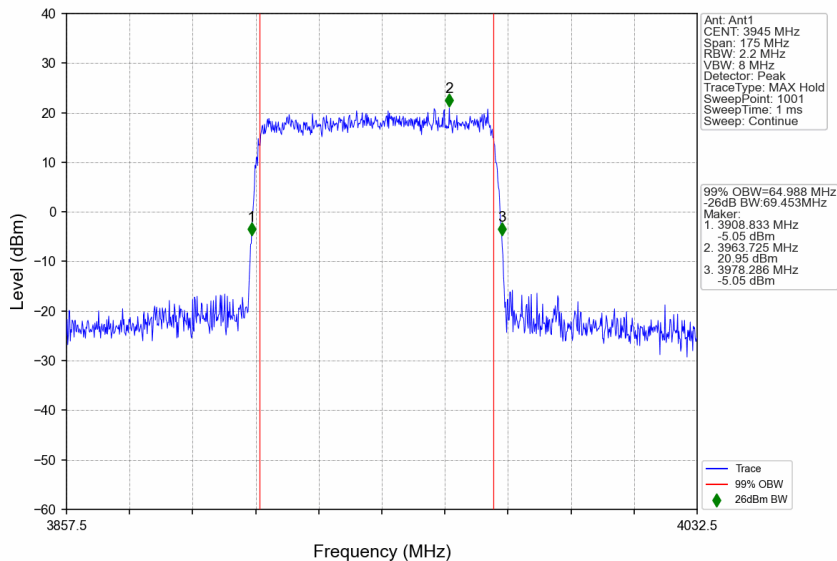
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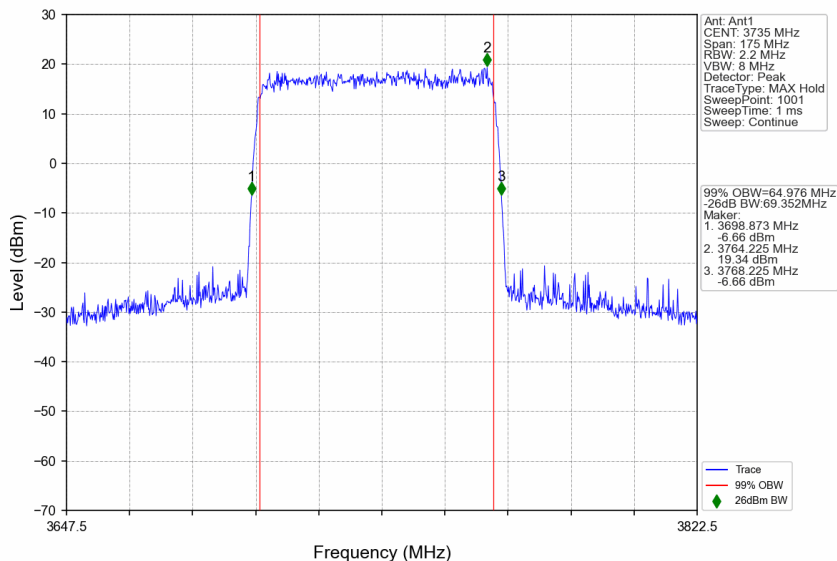


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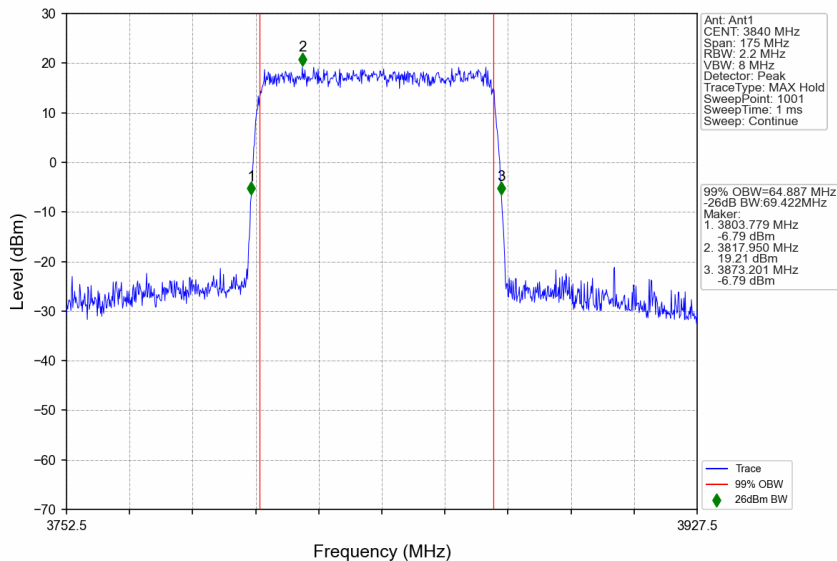
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n77a\_30kHz\_SISO\_NTNV\_70MHz\_DFT-s-OFDM 16 QAM\_3735MHz\_Outer\_Full



n77a\_30kHz\_SISO\_NTNV\_70MHz\_DFT-s-OFDM 16 QAM\_3840MHz\_Outer\_Full

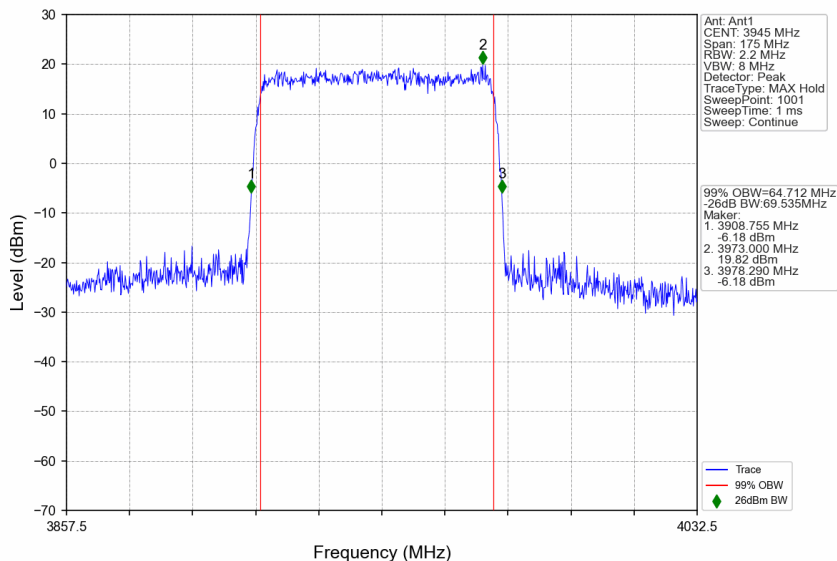


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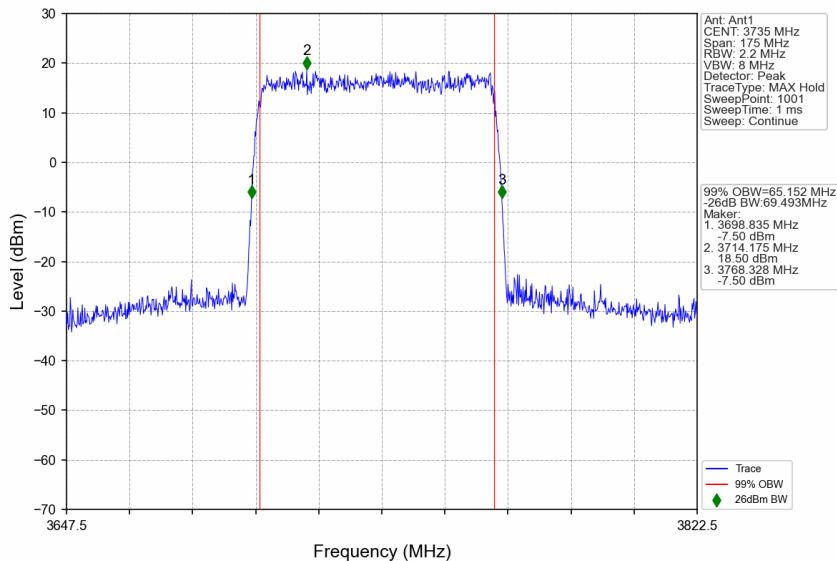
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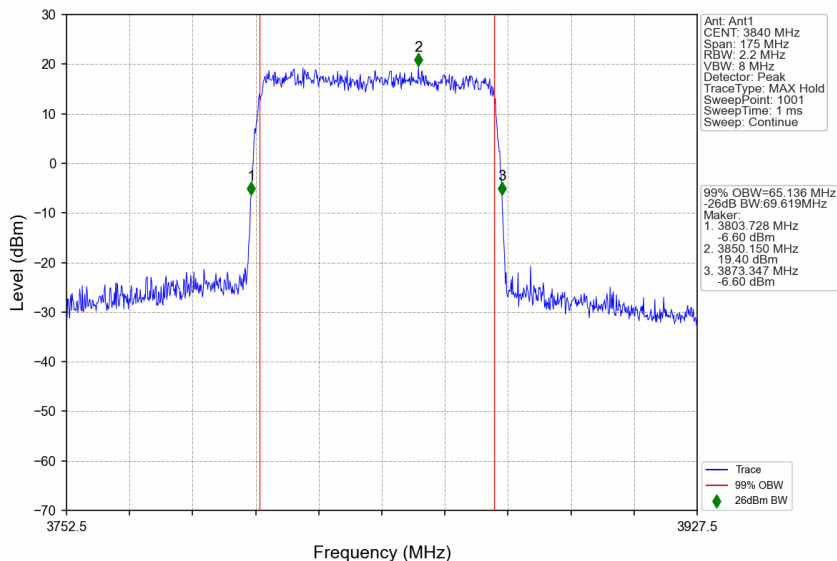


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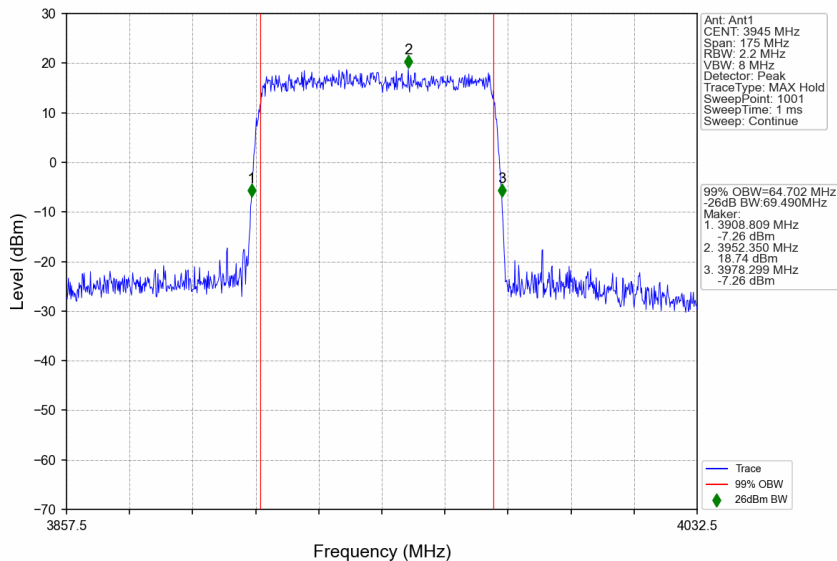
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n77a\_30kHz\_SISO\_NTNV\_70MHz\_DFT-s-OFDM 64 QAM\_3840MHz\_Outer\_Full



n77a\_30kHz\_SISO\_NTNV\_70MHz\_DFT-s-OFDM 64 QAM\_3945MHz\_Outer\_Full



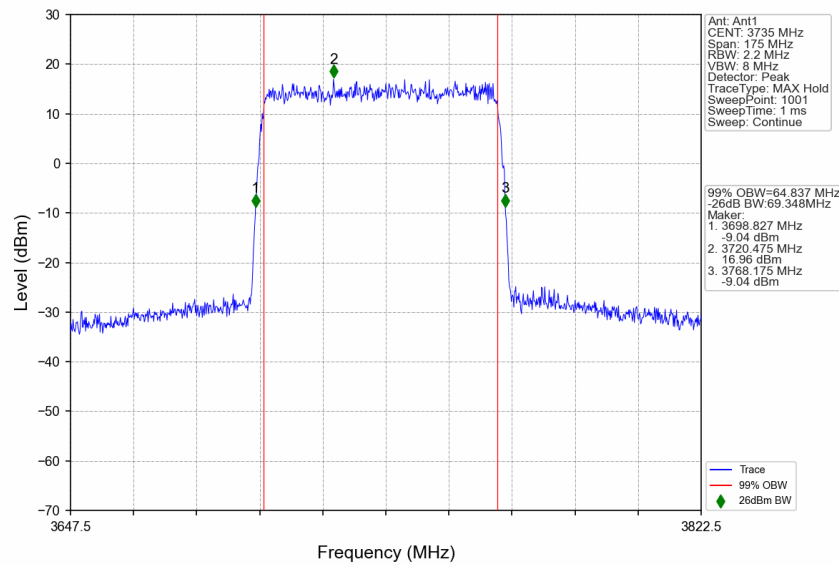
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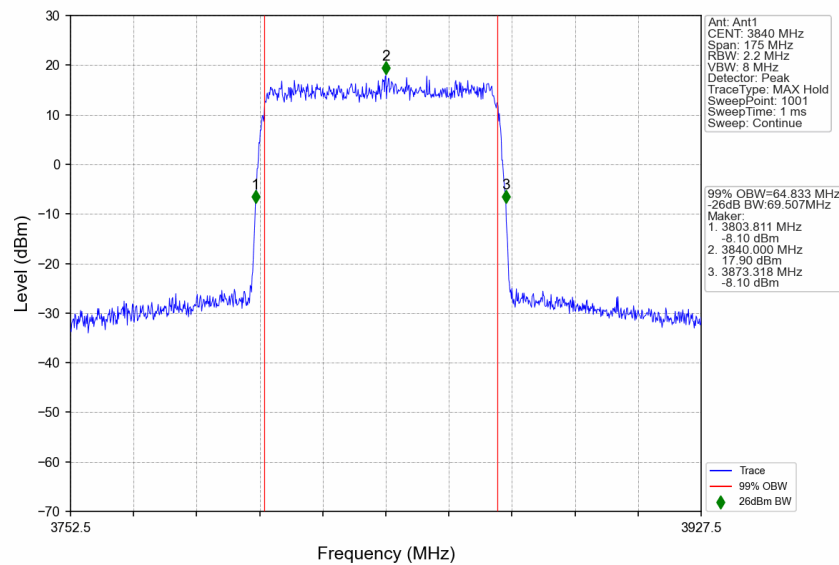
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n77a\_30kHz\_SISO\_NTNV\_70MHz\_DFT-s-OFDM 256 QAM\_3735MHz\_Outer\_Full



n77a\_30kHz\_SISO\_NTNV\_70MHz\_DFT-s-OFDM 256 QAM\_3840MHz\_Outer\_Full

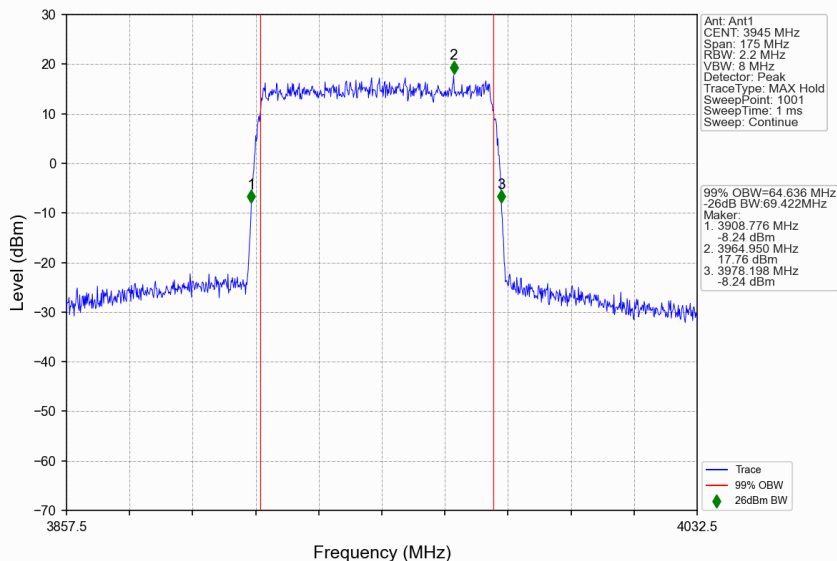


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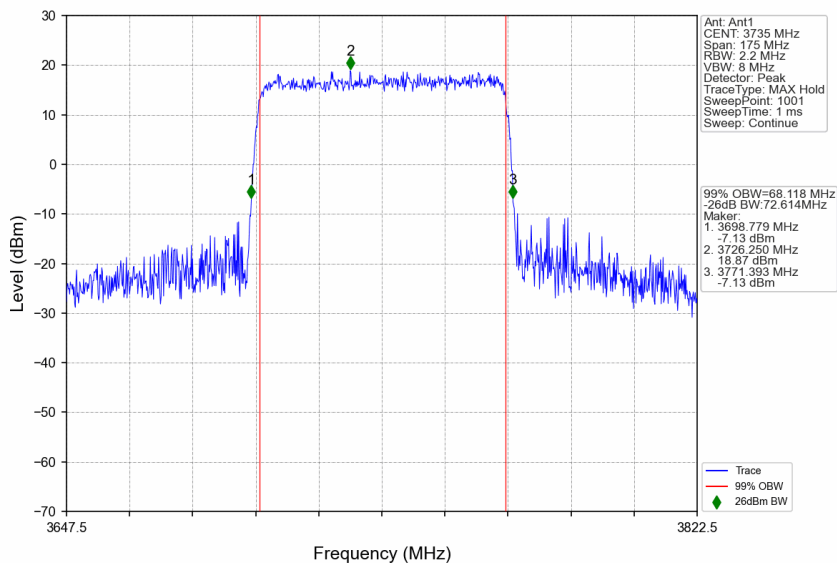
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n77a\_30kHz\_SISO\_NTNV\_70MHz\_DFT-s-OFDM 256 QAM\_3945MHz\_Outer\_Full



n77a\_30kHz\_SISO\_NTNV\_70MHz\_CP-OFDM QPSK\_3735MHz\_Outer\_Full



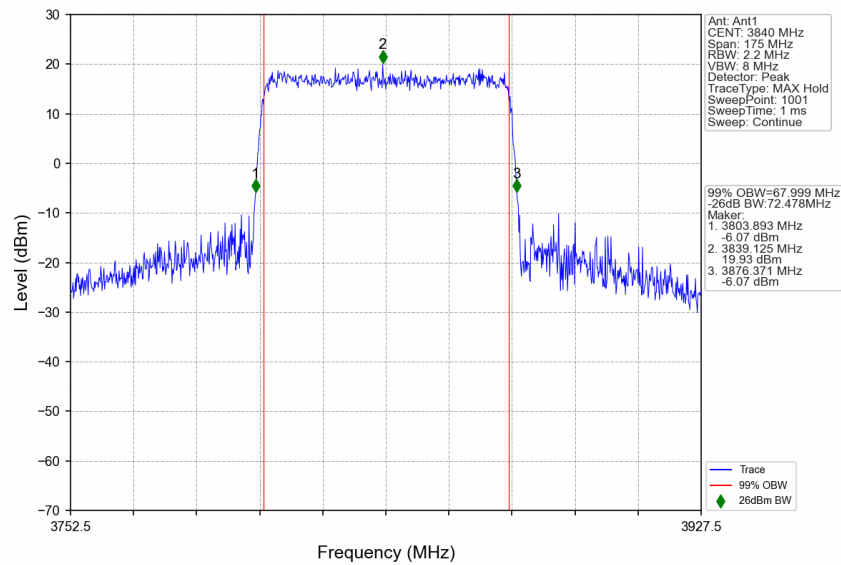
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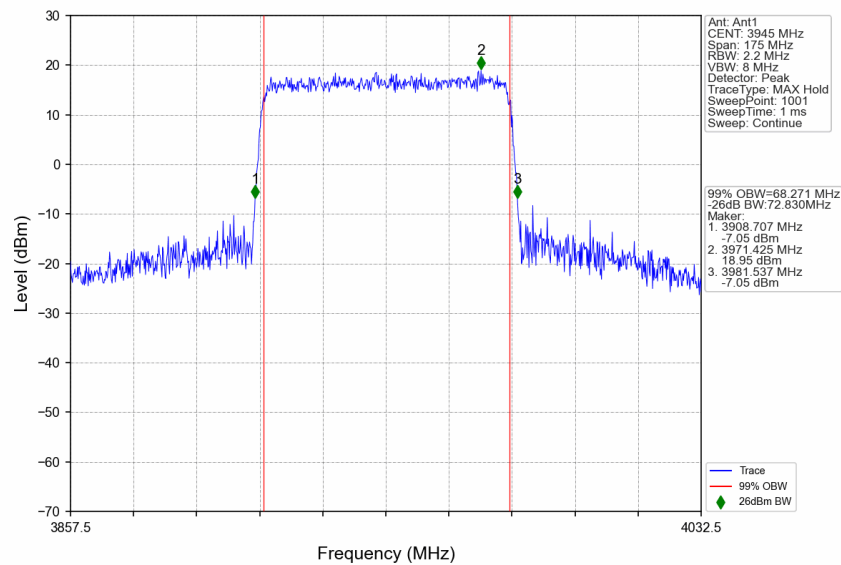
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n77a\_30kHz\_SISO\_NTNV\_70MHz\_CP-OFDM QPSK\_3840MHz\_Outer\_Full



n77a\_30kHz\_SISO\_NTNV\_70MHz\_CP-OFDM QPSK\_3945MHz\_Outer\_Full

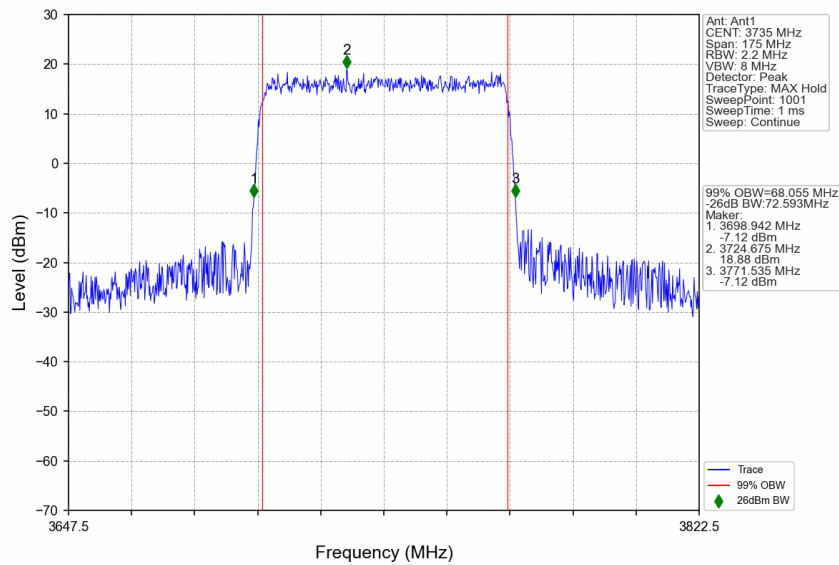


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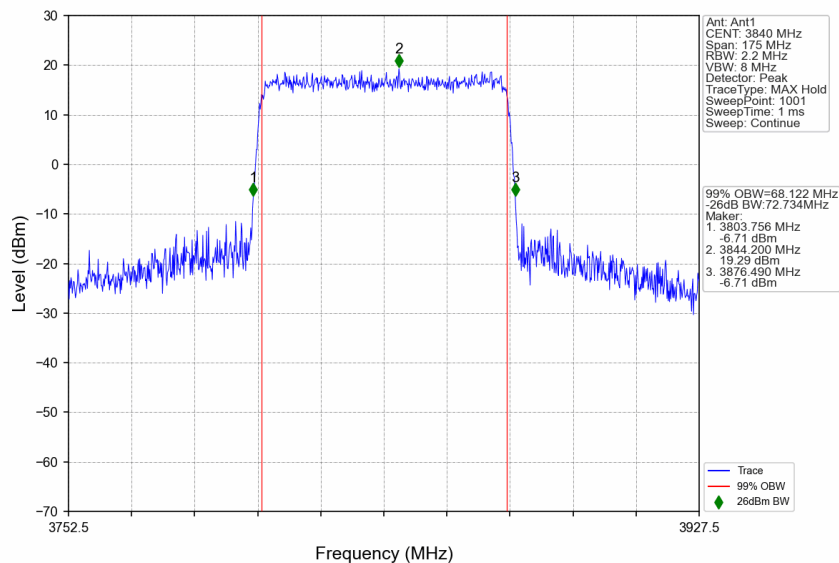
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n77a\_30kHz\_SISO\_NTNV\_70MHz\_CP-OFDM 16 QAM\_3735MHz\_Outer\_Full



n77a\_30kHz\_SISO\_NTNV\_70MHz\_CP-OFDM 16 QAM\_3840MHz\_Outer\_Full

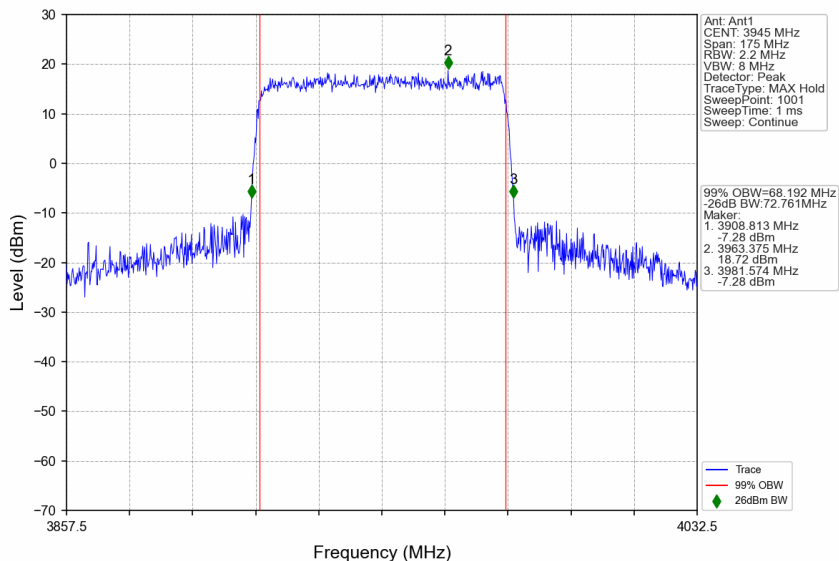


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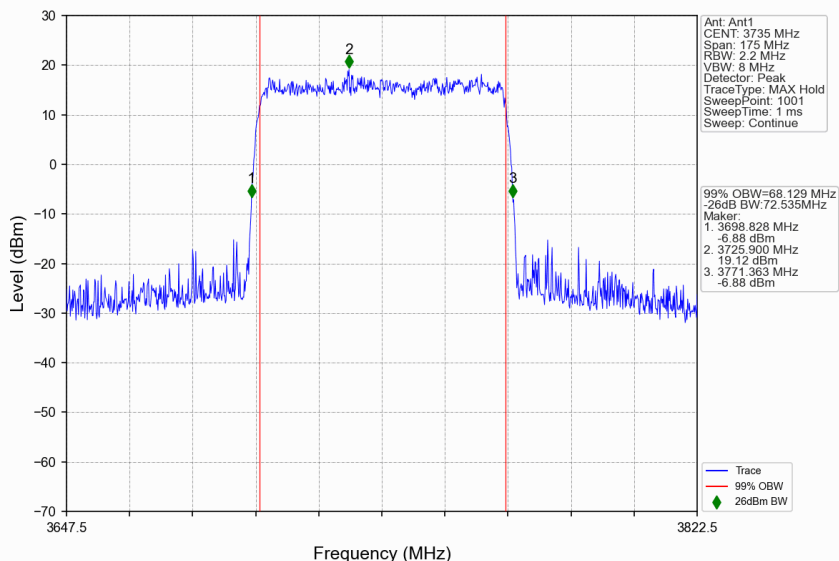
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n77a\_30kHz\_SISO\_NTNV\_70MHz\_CP-OFDM 16 QAM\_3945MHz\_Outer\_Full



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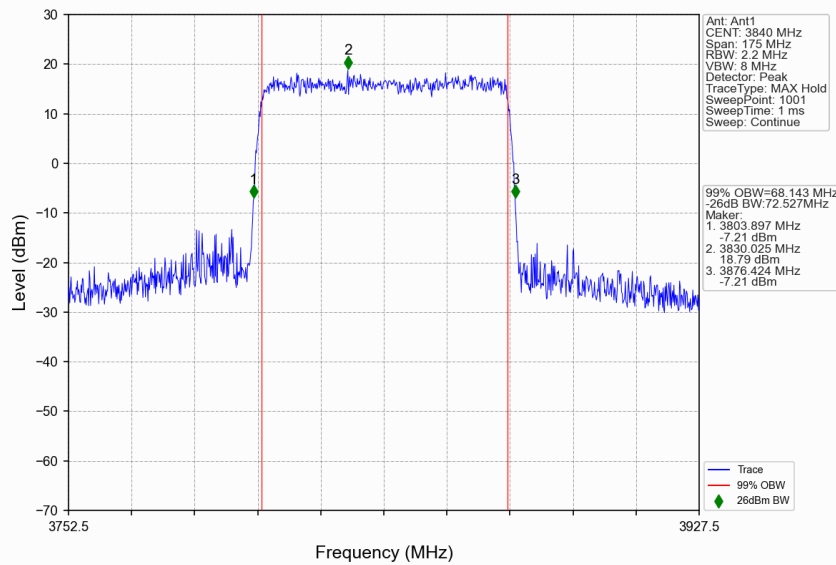
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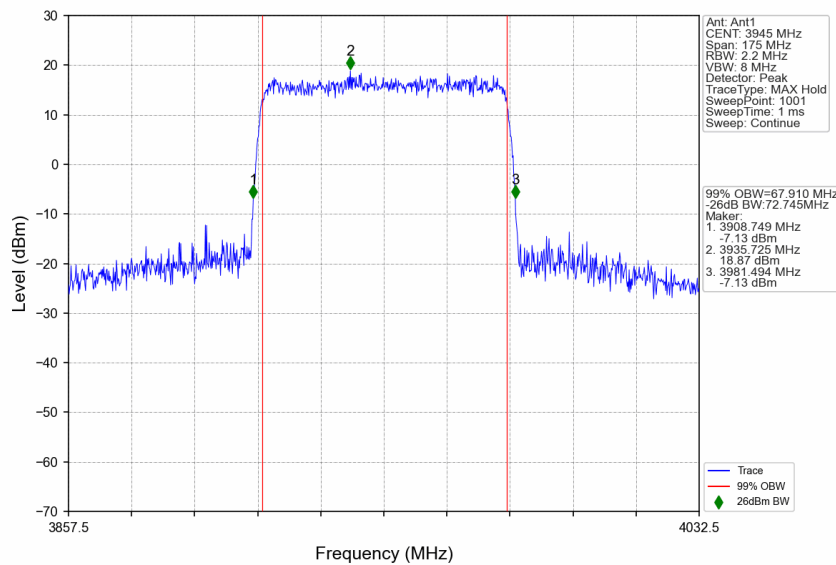
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n77a\_30kHz\_SISO\_NTNV\_70MHz\_CP-OFDM 64 QAM\_3840MHz\_Outer\_Full



n77a\_30kHz\_SISO\_NTNV\_70MHz\_CP-OFDM 64 QAM\_3945MHz\_Outer\_Full

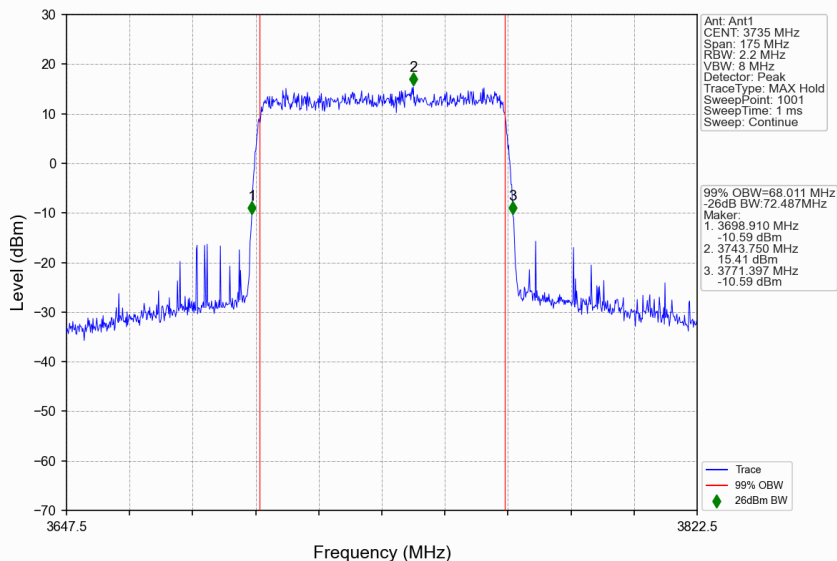


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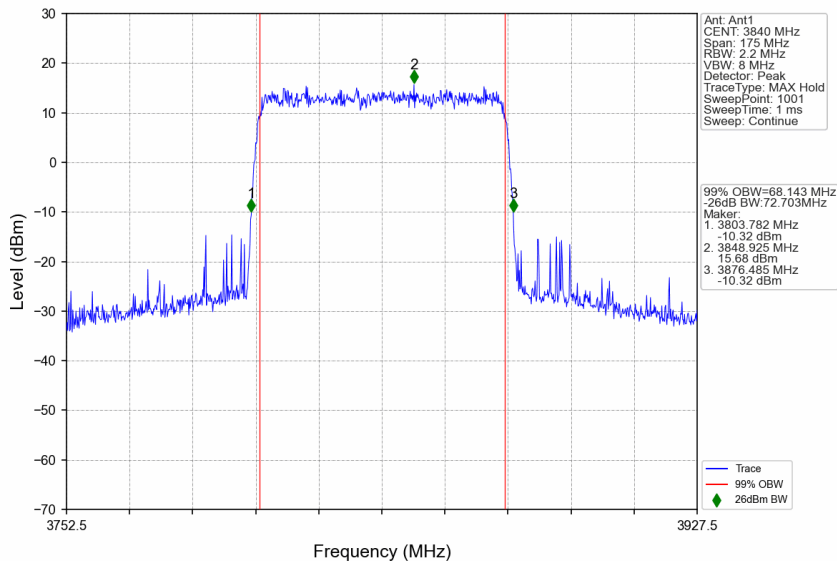
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n77a\_30kHz\_SISO\_NTNV\_70MHz\_CP-OFDM 256 QAM\_3735MHz\_Outer\_Full



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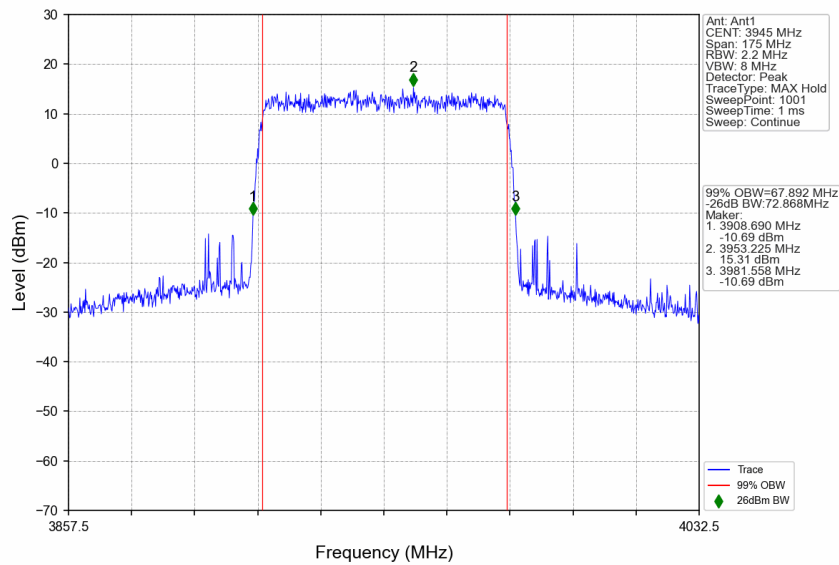


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4.17 30k\_SISO\_80MHz\_NTNV

4.17.1 Test Result

5G NR n77a 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	3740.01	Outer_Full	77.86	82.93	/	Pass
	3840	Outer_Full	77.80	82.66	/	Pass
	3939.99	Outer_Full	77.72	83.03	/	Pass
DFT-s-OFDM QPSK	3740.01	Outer_Full	77.73	82.91	/	Pass
	3840	Outer_Full	77.67	83.02	/	Pass
	3939.99	Outer_Full	77.67	83.03	/	Pass
DFT-s-OFDM 16 QAM	3740.01	Outer_Full	77.82	83.00	/	Pass
	3840	Outer_Full	77.60	82.72	/	Pass
	3939.99	Outer_Full	77.77	82.70	/	Pass
DFT-s-OFDM 64 QAM	3740.01	Outer_Full	77.67	82.90	/	Pass
	3840	Outer_Full	77.69	83.05	/	Pass
	3939.99	Outer_Full	77.78	83.00	/	Pass
DFT-s-OFDM 256 QAM	3740.01	Outer_Full	77.71	82.74	/	Pass
	3840	Outer_Full	77.73	82.85	/	Pass
	3939.99	Outer_Full	77.62	82.70	/	Pass
CP-OFDM QPSK	3740.01	Outer_Full	78.06	83.24	/	Pass
	3840	Outer_Full	78.18	83.37	/	Pass
	3939.99	Outer_Full	77.95	83.28	/	Pass
CP-OFDM 16 QAM	3740.01	Outer_Full	78.01	83.28	/	Pass
	3840	Outer_Full	78.05	83.17	/	Pass
	3939.99	Outer_Full	78.08	83.34	/	Pass
CP-OFDM 64 QAM	3740.01	Outer_Full	78.17	83.36	/	Pass
	3840	Outer_Full	77.94	83.40	/	Pass
	3939.99	Outer_Full	77.96	83.25	/	Pass
CP-OFDM 256 QAM	3740.01	Outer_Full	77.88	83.17	/	Pass
	3840	Outer_Full	78.11	83.09	/	Pass
	3939.99	Outer_Full	78.26	83.42	/	Pass

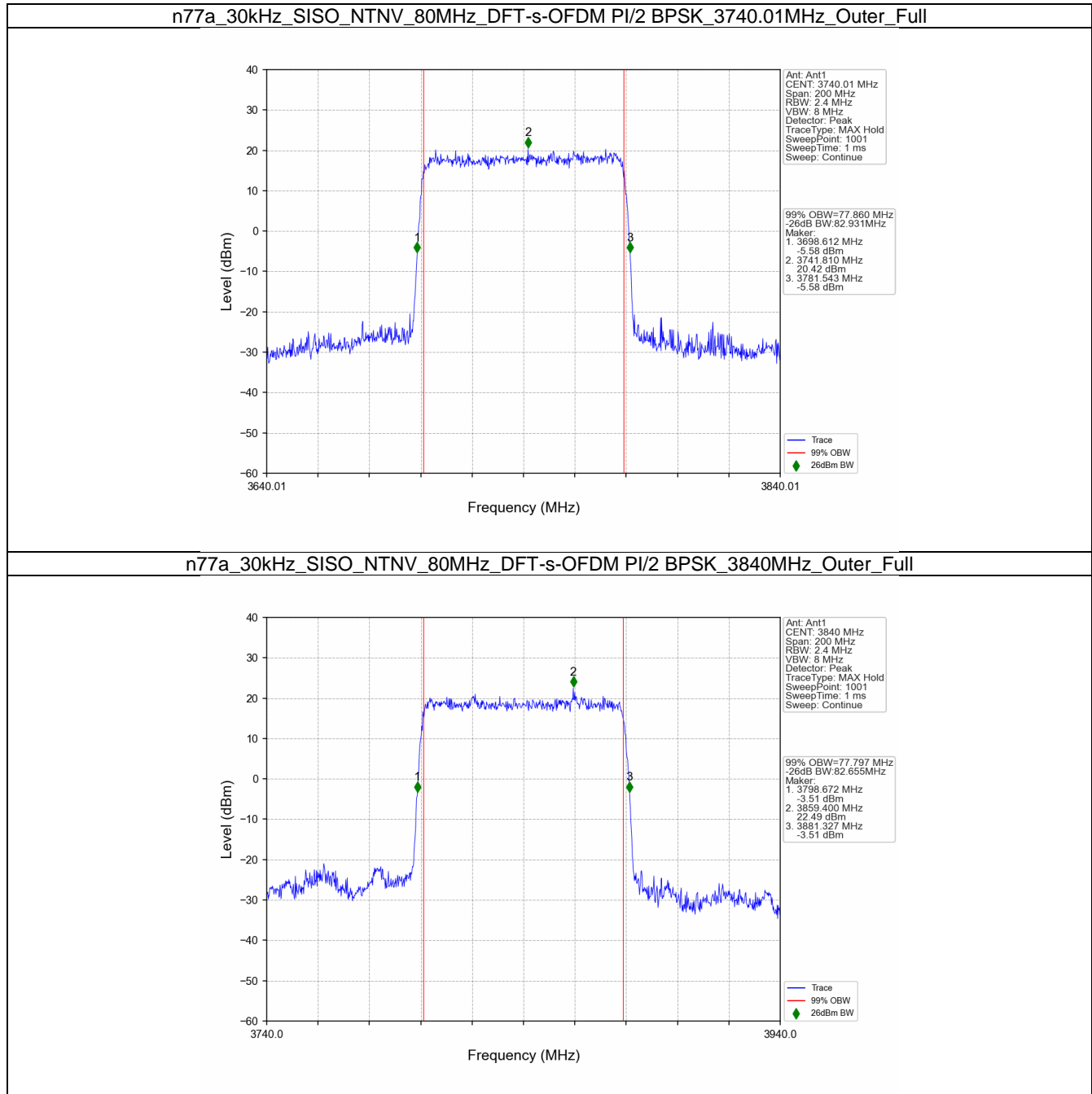


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4.17.2 Test Graph



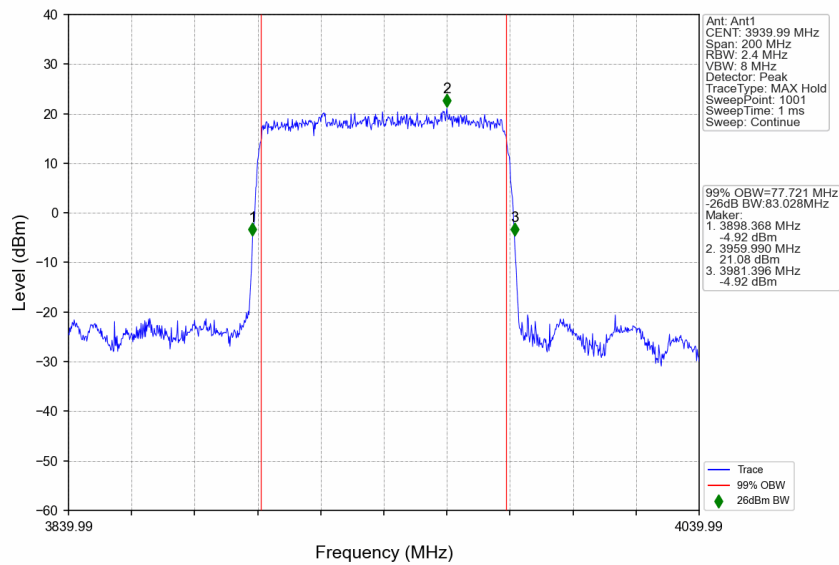
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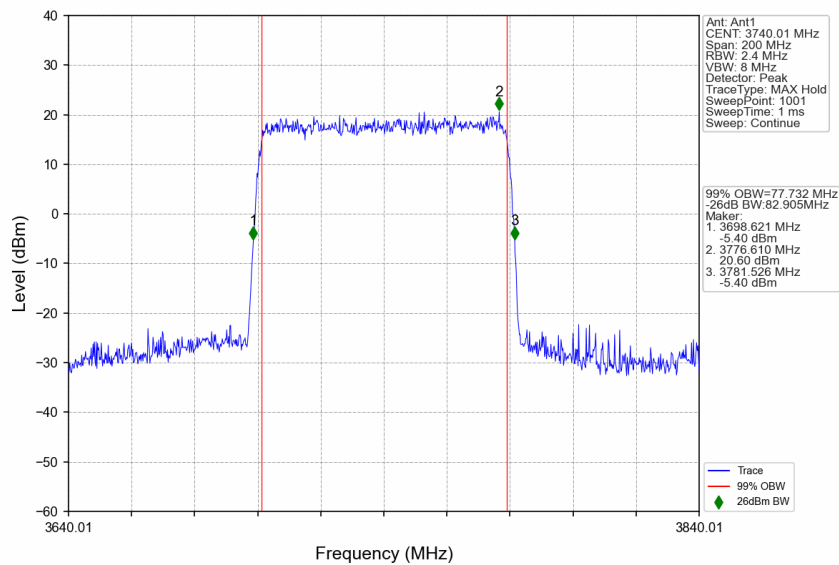
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n77a\_30kHz\_SISO\_NTNV\_80MHz\_DFT-s-OFDM PI/2 BPSK\_3939.99MHz\_Outer\_Full



n77a\_30kHz\_SISO\_NTNV\_80MHz\_DFT-s-OFDM QPSK\_3740.01MHz\_Outer\_Full

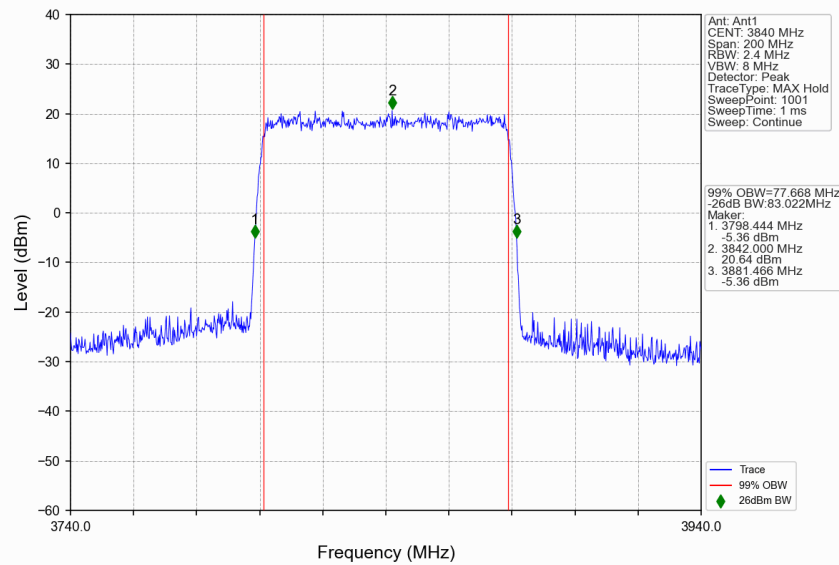


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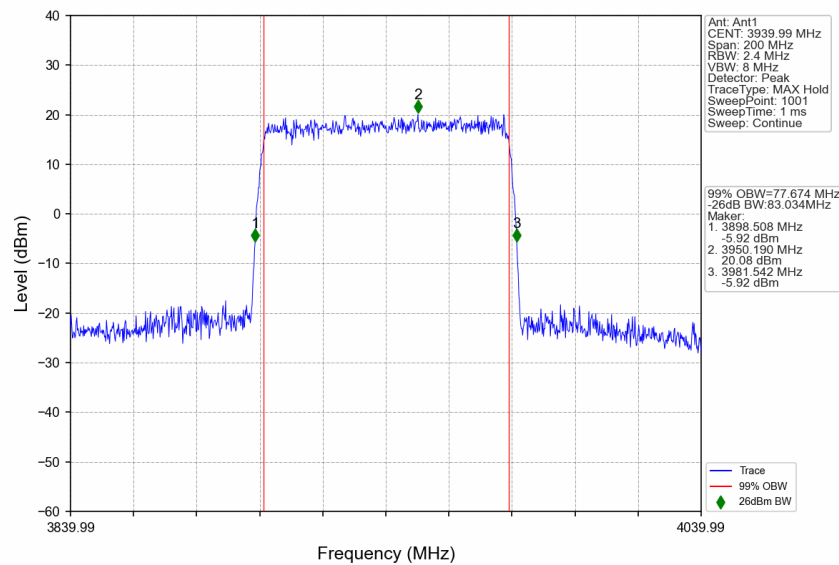
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n77a\_30kHz\_SISO\_NTNV\_80MHz\_DFT-s-OFDM QPSK\_3840MHz\_Outer\_Full



n77a\_30kHz\_SISO\_NTNV\_80MHz\_DFT-s-OFDM QPSK\_3939.99MHz\_Outer\_Full

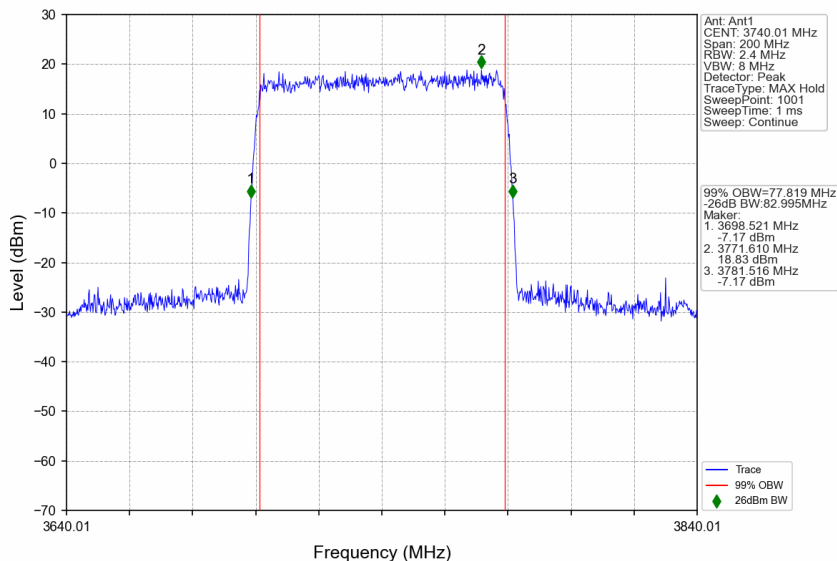


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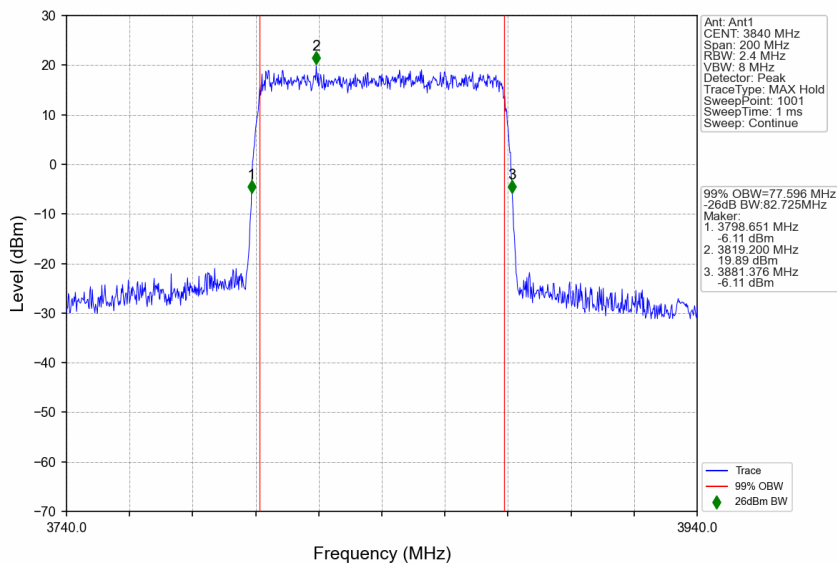
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n77a\_30kHz\_SISO\_NTNV\_80MHz\_DFT-s-OFDM 16 QAM\_3740.01MHz\_Outer\_Full



n77a\_30kHz\_SISO\_NTNV\_80MHz\_DFT-s-OFDM 16 QAM\_3840MHz\_Outer\_Full

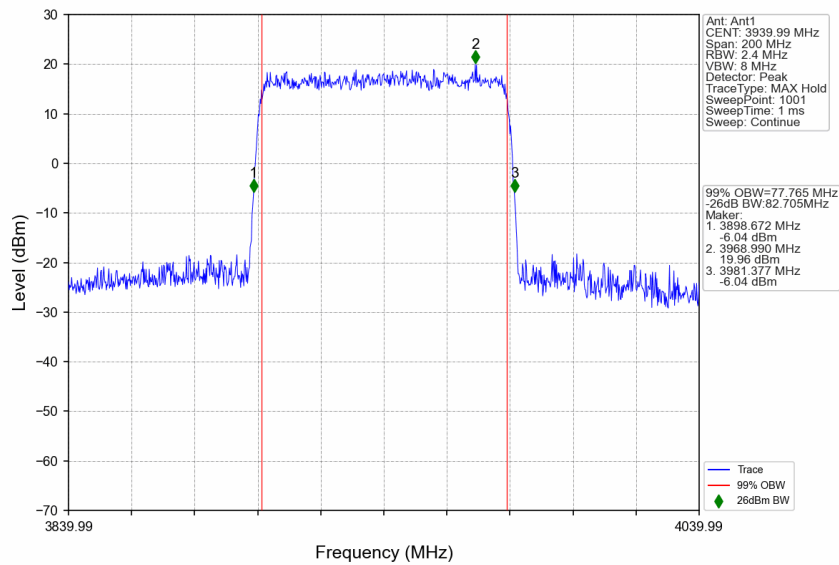


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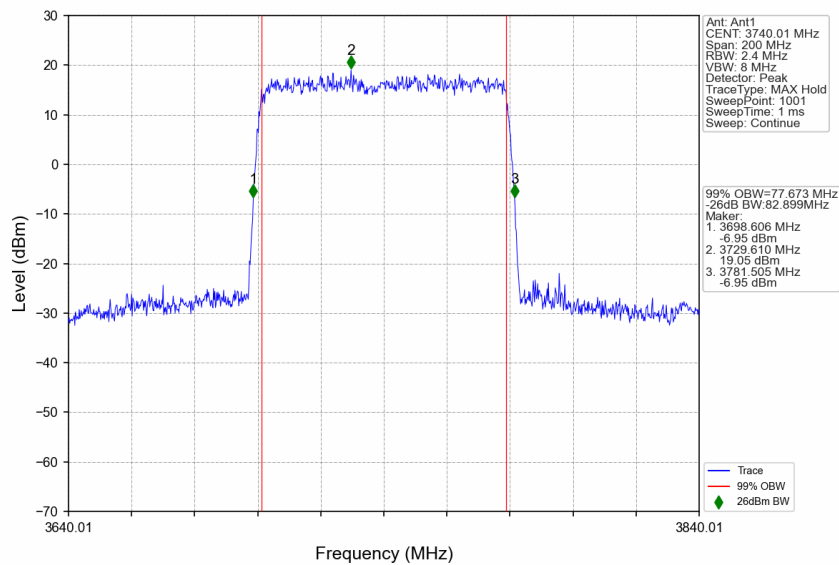
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n77a\_30kHz\_SISO\_NTNV\_80MHz\_DFT-s-OFDM 16 QAM\_3939.99MHz\_Outer\_Full



n77a\_30kHz\_SISO\_NTNV\_80MHz\_DFT-s-OFDM 64 QAM\_3740.01MHz\_Outer\_Full

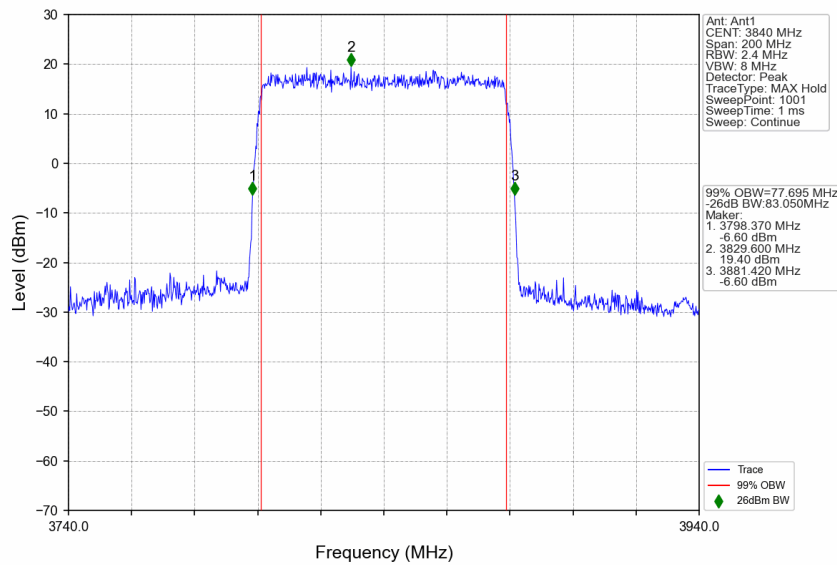


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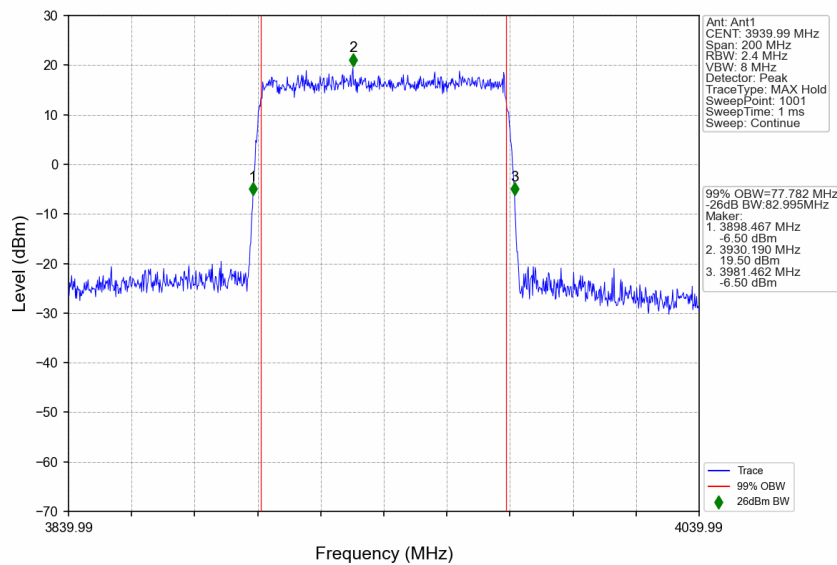
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n77a\_30kHz\_SISO\_NTNV\_80MHz\_DFT-s-OFDM 64 QAM\_3840MHz\_Outer\_Full



n77a\_30kHz\_SISO\_NTNV\_80MHz\_DFT-s-OFDM 64 QAM\_3939.99MHz\_Outer\_Full



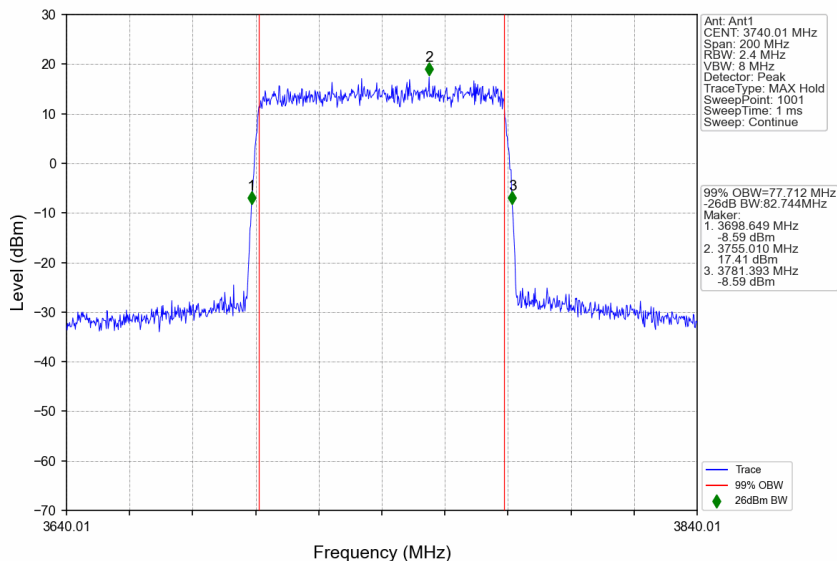
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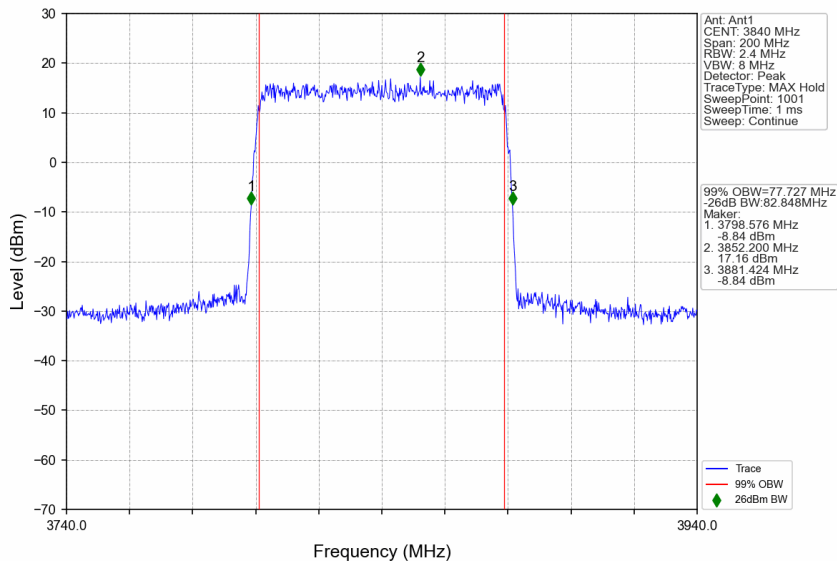
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n77a\_30kHz\_SISO\_NTNV\_80MHz\_DFT-s-OFDM 256 QAM\_3740.01MHz\_Outer\_Full



n77a\_30kHz\_SISO\_NTNV\_80MHz\_DFT-s-OFDM 256 QAM\_3840MHz\_Outer\_Full



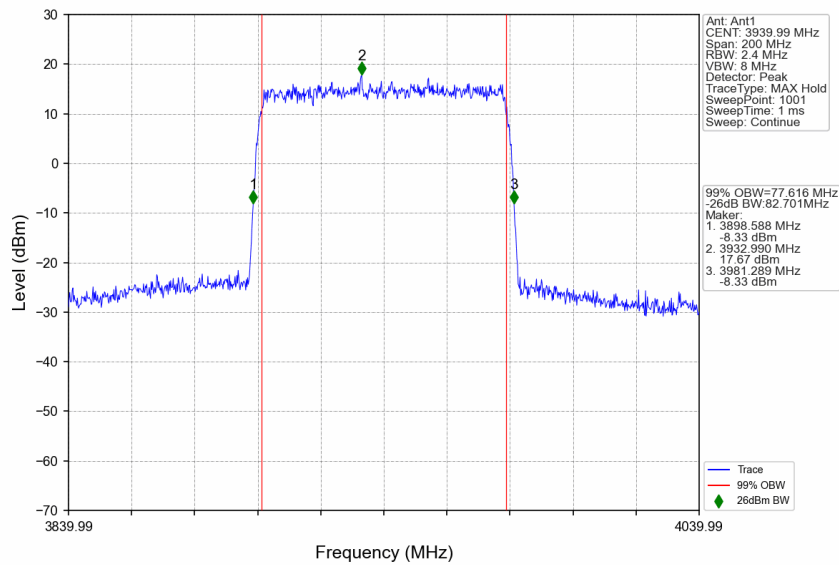
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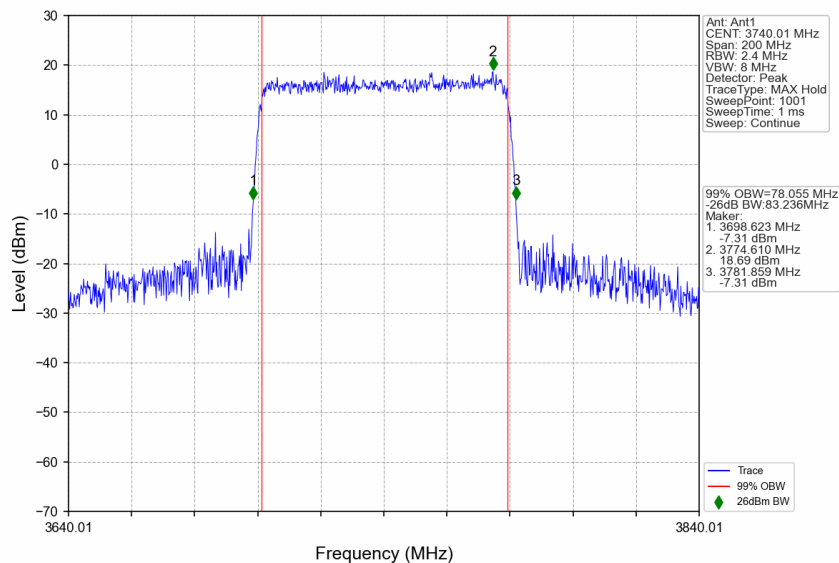
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n77a\_30kHz\_SISO\_NTNV\_80MHz\_DFT-s-OFDM 256 QAM\_3939.99MHz\_Outer\_Full



n77a\_30kHz\_SISO\_NTNV\_80MHz\_CP-OFDM QPSK\_3740.01MHz\_Outer\_Full

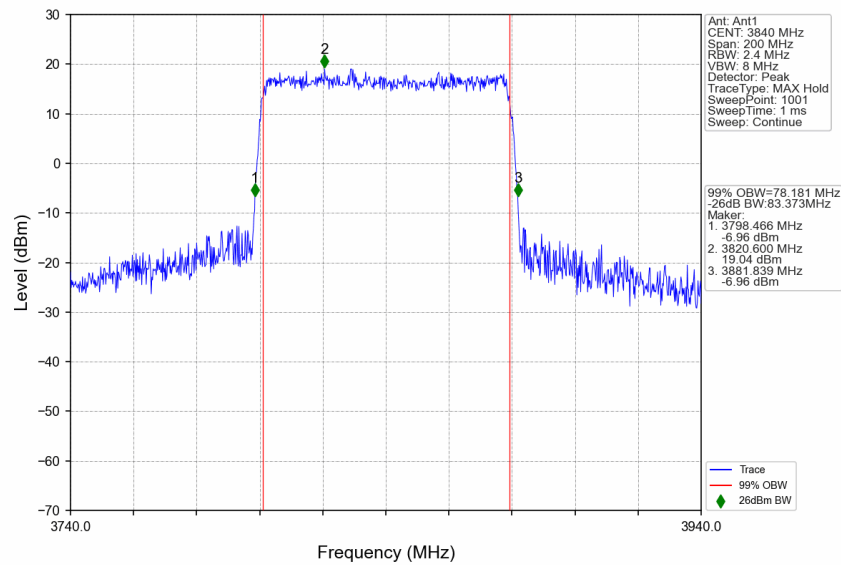


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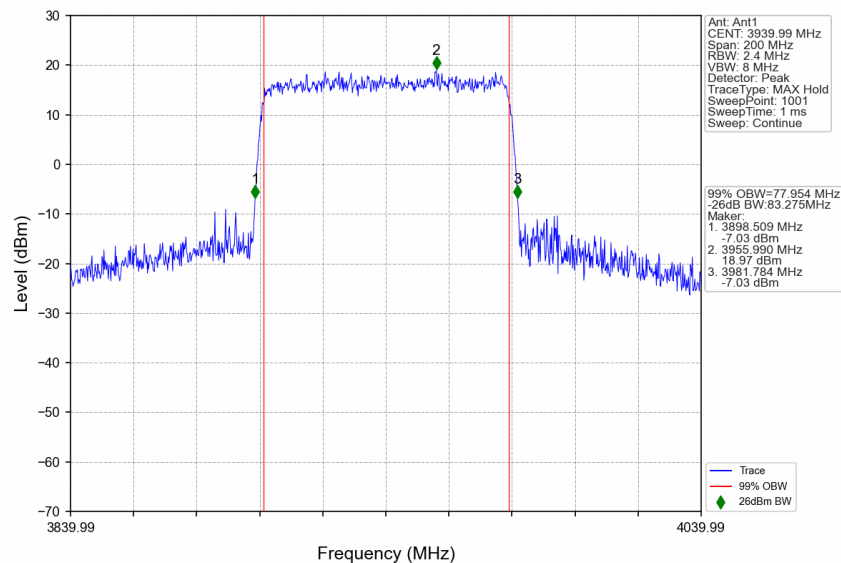
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n77a\_30kHz\_SISO\_NTNV\_80MHz\_CP-OFDM QPSK\_3840MHz\_Outer\_Full



n77a\_30kHz\_SISO\_NTNV\_80MHz\_CP-OFDM QPSK\_3939.99MHz\_Outer\_Full

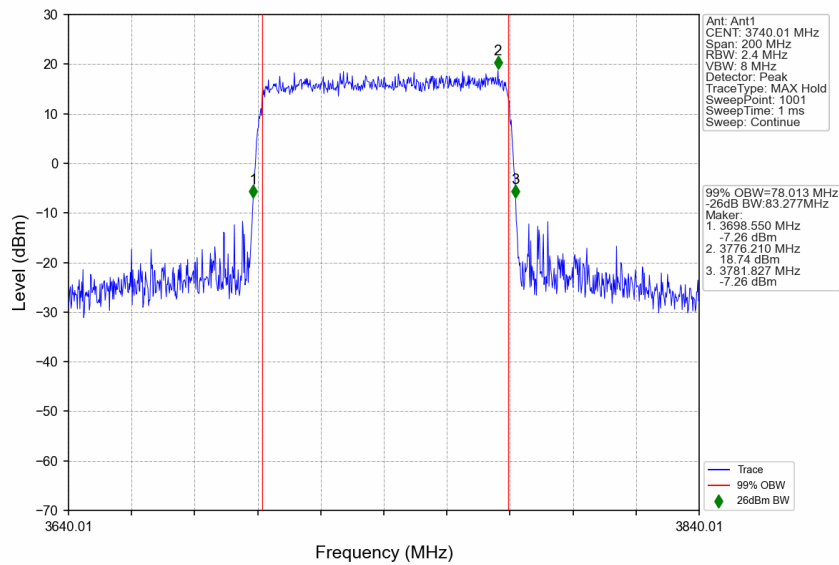


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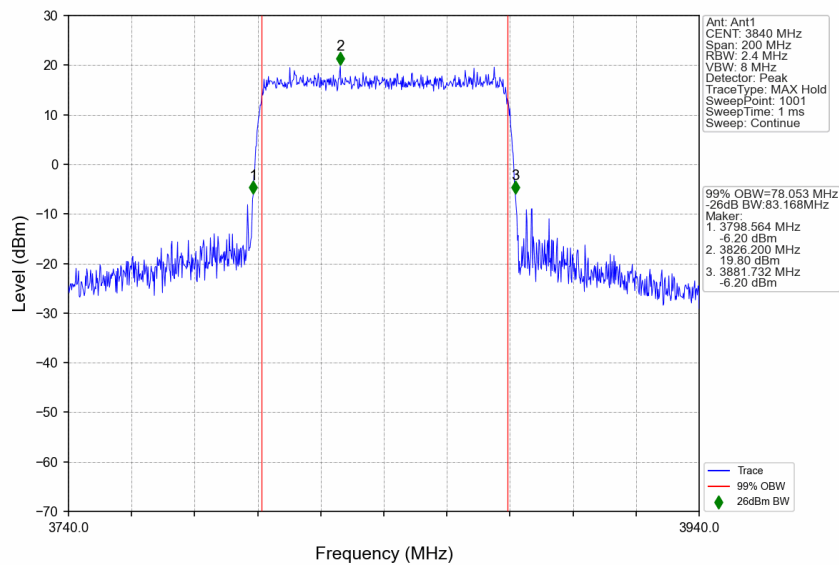
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n77a\_30kHz\_SISO\_NTNV\_80MHz\_CP-OFDM 16 QAM\_3740.01MHz\_Outer\_Full



n77a\_30kHz\_SISO\_NTNV\_80MHz\_CP-OFDM 16 QAM\_3840MHz\_Outer\_Full

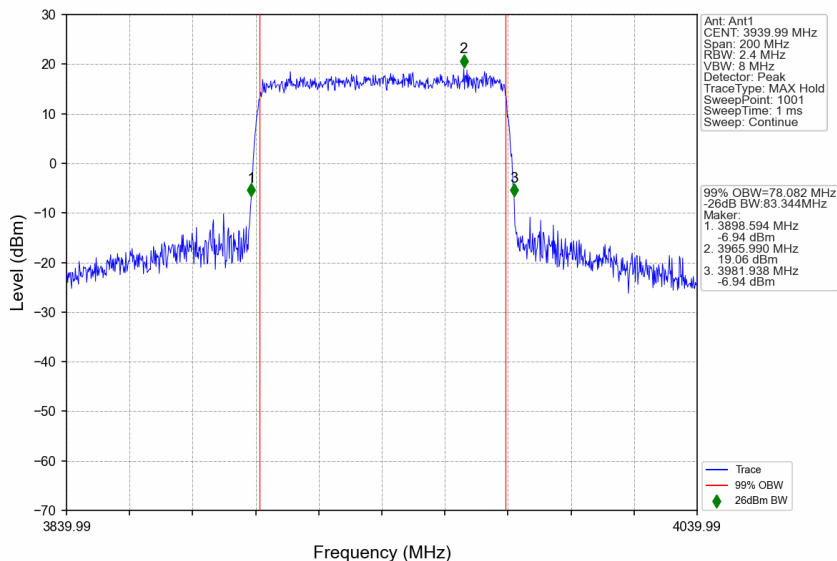


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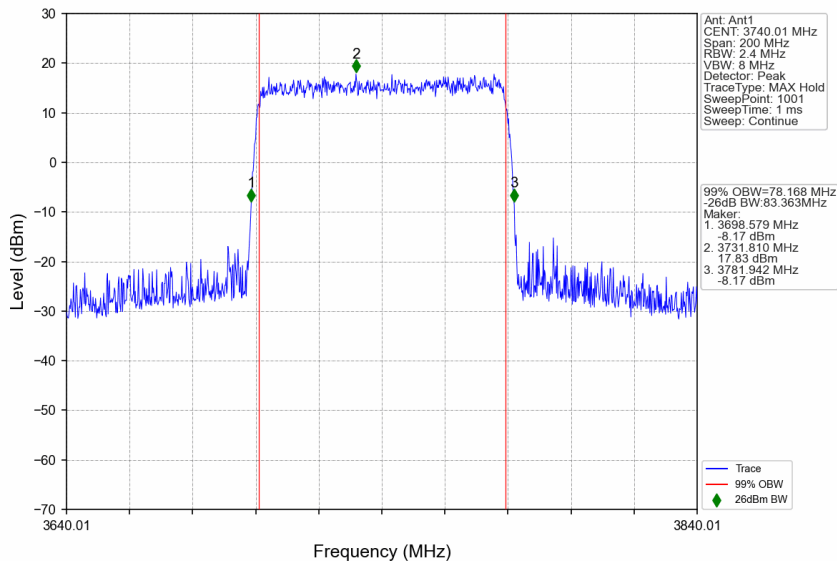
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n77a\_30kHz\_SISO\_NTNV\_80MHz\_CP-OFDM 16 QAM\_3939.99MHz\_Outer\_Full



n77a\_30kHz\_SISO\_NTNV\_80MHz\_CP-OFDM 64 QAM\_3740.01MHz\_Outer\_Full



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