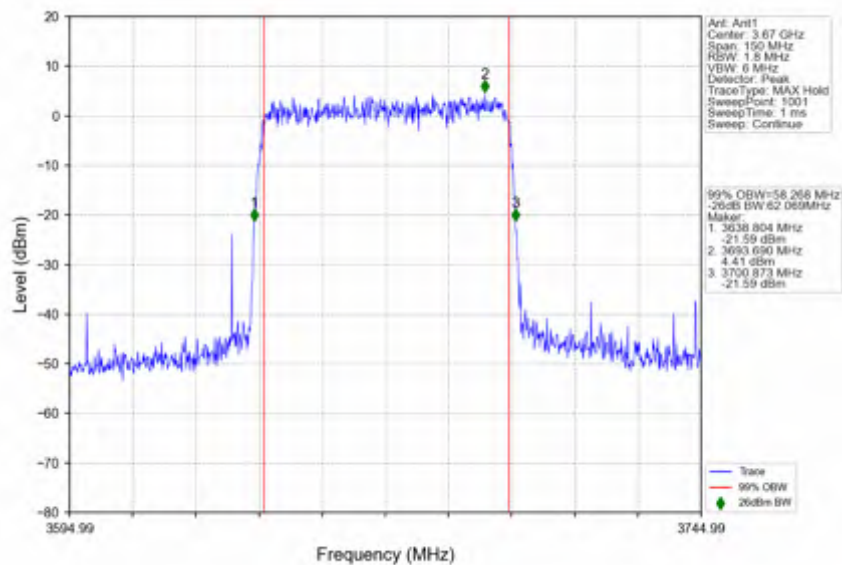
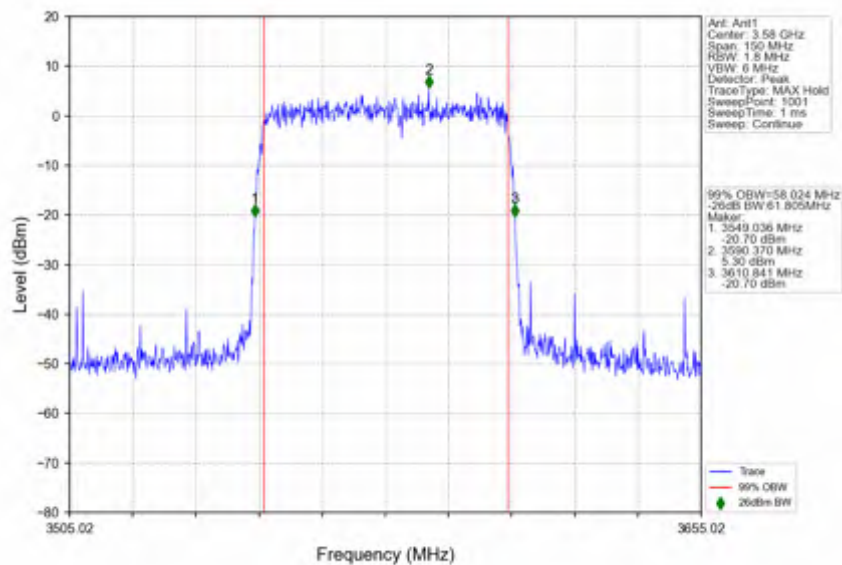


n78d 30kHz SISO NTNv 60MHz CP-OFDM 16 QAM 3669.99MHz Outer Full



n78d_30kHz_SISO_NTNV_60MHz_CP-OFDM_64_QAM_3580.02MHz_Outer_Full

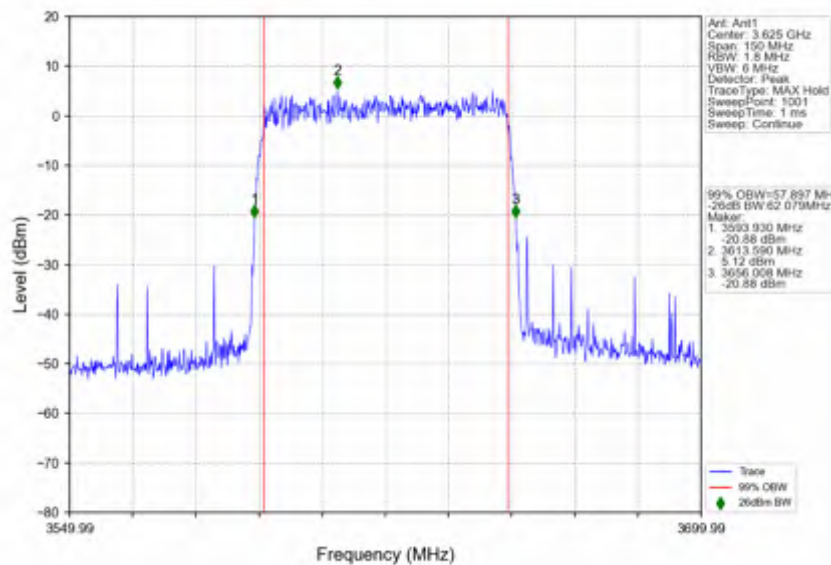


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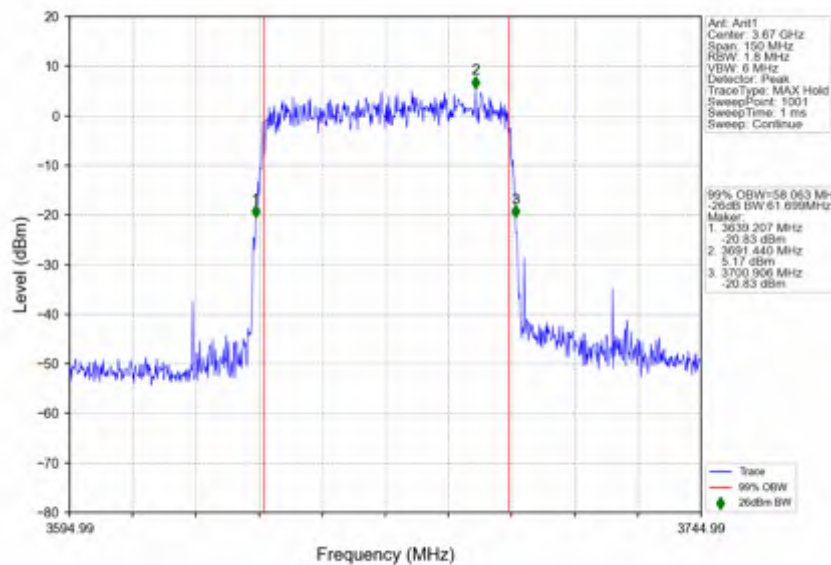
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n78d_30kHz_SISO_NTNV_60MHz_CP-OFDM 64 QAM_3624.99MHz_Outer_Full



n78d_30kHz_SISO_NTNV_60MHz_CP-OFDM 64 QAM_3669.99MHz_Outer_Full



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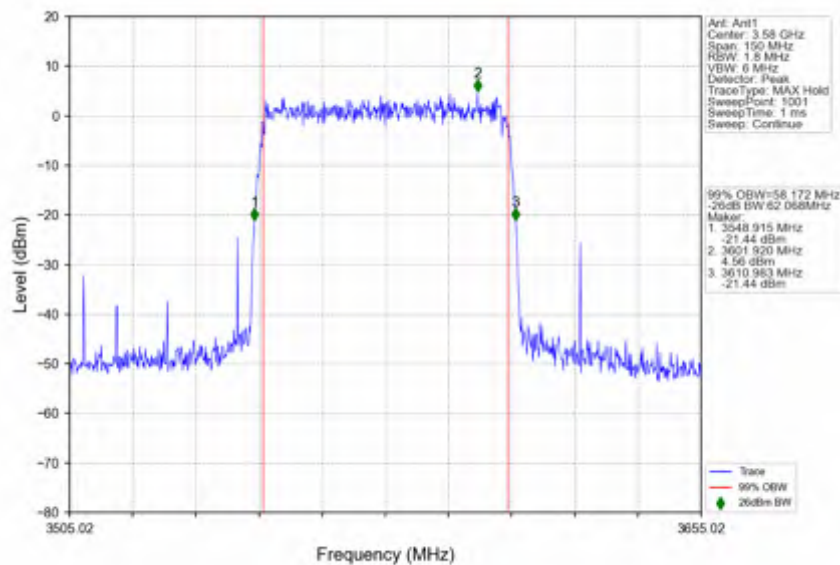
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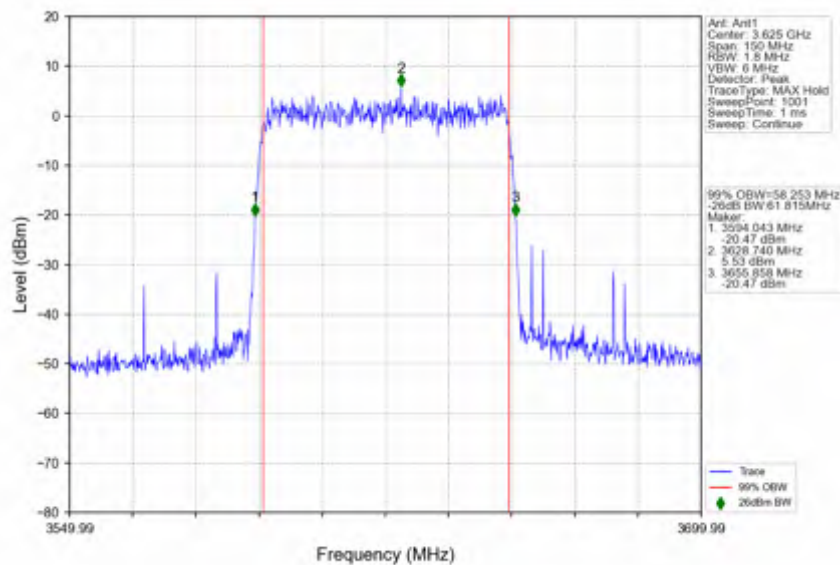
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n78d_30kHz_SISO_NTNV_60MHz_CP-OFDM_256_QAM_3580.02MHz_Outer_Full



n78d_30kHz_SISO_NTNV_60MHz_CP-OFDM_256_QAM_3624.99MHz_Outer_Full



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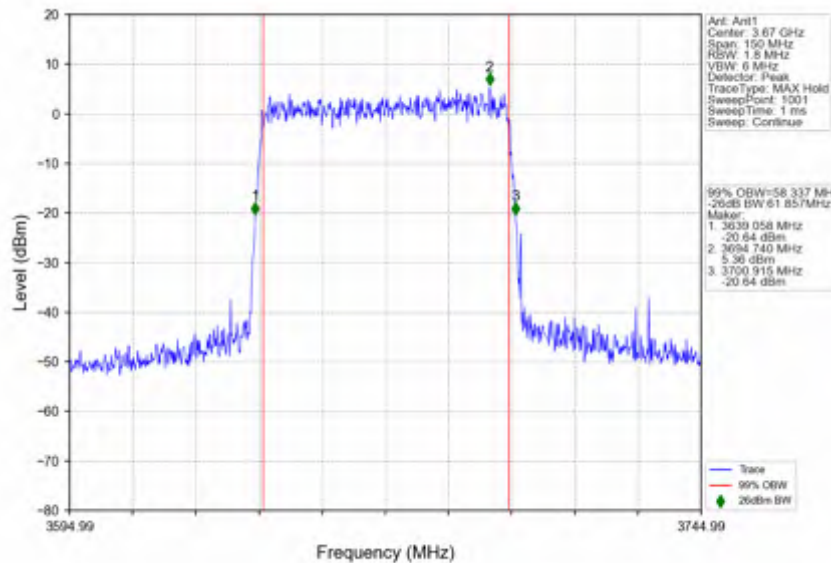
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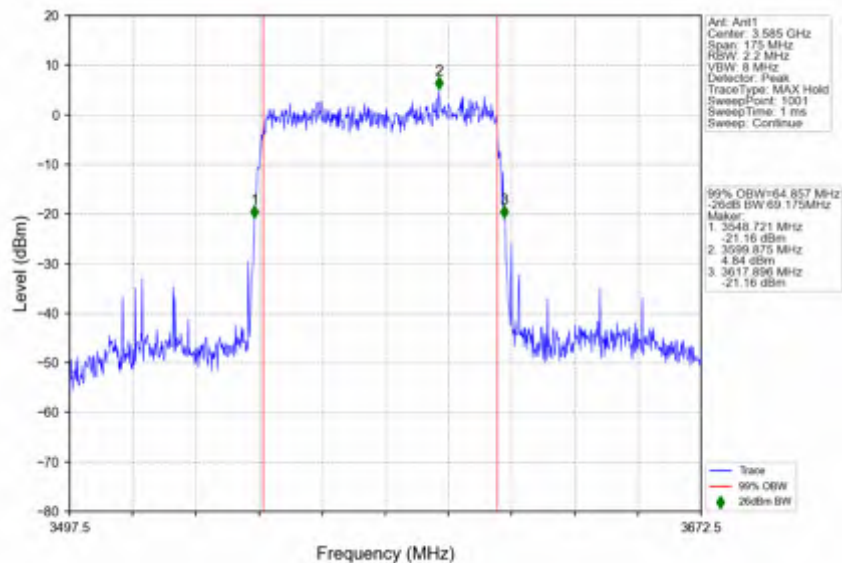
8.16 30k_SISO_70MHz_NTNV

8.16.1 Test Result

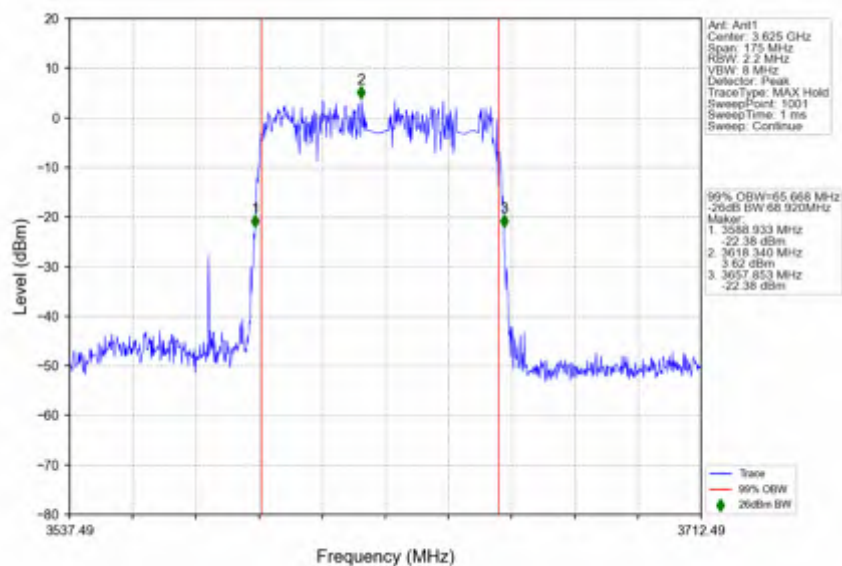
5G NR n78d SCS=30kHz SISO 70MHz NTV						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3585	Outer_Full	64.86	69.17	/	Pass
	3624.99	Outer_Full	65.67	68.92	/	Pass
	3664.98	Outer_Full	64.54	70.05	/	Pass
DFT-s-OFDM QPSK	3585	Outer_Full	64.81	70.25	/	Pass
	3624.99	Outer_Full	64.97	69.27	/	Pass
	3664.98	Outer_Full	64.72	69.07	/	Pass
DFT-s-OFDM 16 QAM	3585	Outer_Full	64.82	69.52	/	Pass
	3624.99	Outer_Full	64.55	69.29	/	Pass
	3664.98	Outer_Full	64.73	69.56	/	Pass
DFT-s-OFDM 64 QAM	3585	Outer_Full	65.03	69.28	/	Pass
	3624.99	Outer_Full	64.87	68.86	/	Pass
	3664.98	Outer_Full	64.70	69.06	/	Pass
DFT-s-OFDM 256 QAM	3585	Outer_Full	64.77	69.75	/	Pass
	3624.99	Outer_Full	64.96	69.56	/	Pass
	3664.98	Outer_Full	65.09	69.58	/	Pass
CP-OFDM QPSK	3585	Outer_Full	68.48	72.42	/	Pass
	3624.99	Outer_Full	67.83	72.48	/	Pass
	3664.98	Outer_Full	67.99	72.75	/	Pass
CP-OFDM 16 QAM	3585	Outer_Full	68.44	72.46	/	Pass
	3624.99	Outer_Full	68.03	73.05	/	Pass
	3664.98	Outer_Full	67.91	72.17	/	Pass
CP-OFDM 64 QAM	3585	Outer_Full	67.99	72.21	/	Pass
	3624.99	Outer_Full	67.92	72.42	/	Pass
	3664.98	Outer_Full	67.88	72.49	/	Pass
CP-OFDM 256 QAM	3585	Outer_Full	68.08	72.36	/	Pass
	3624.99	Outer_Full	67.94	72.40	/	Pass
	3664.98	Outer_Full	68.02	72.20	/	Pass

8.16.2 Test Graph

n78d_30kHz_SISO_NTNV_70MHz_DFT-s-OFDM_PI/2_BPSK_3585MHz_Outer_Full



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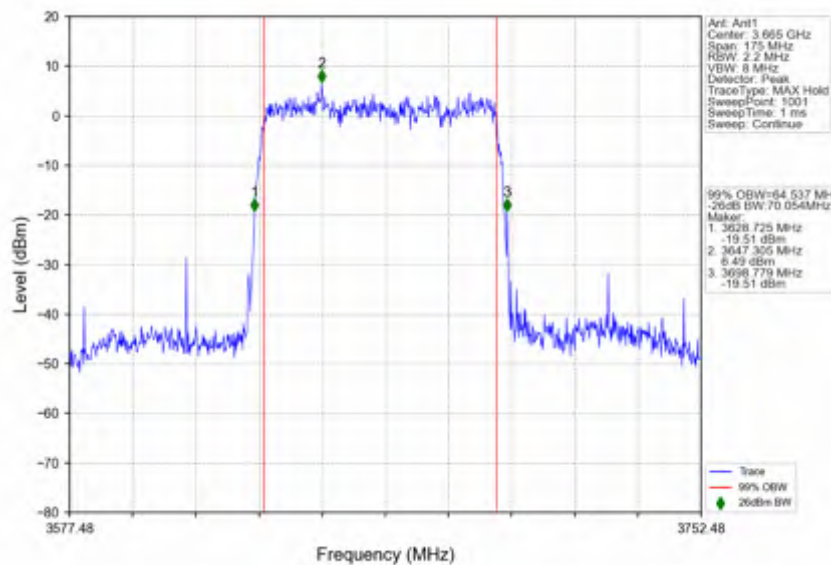
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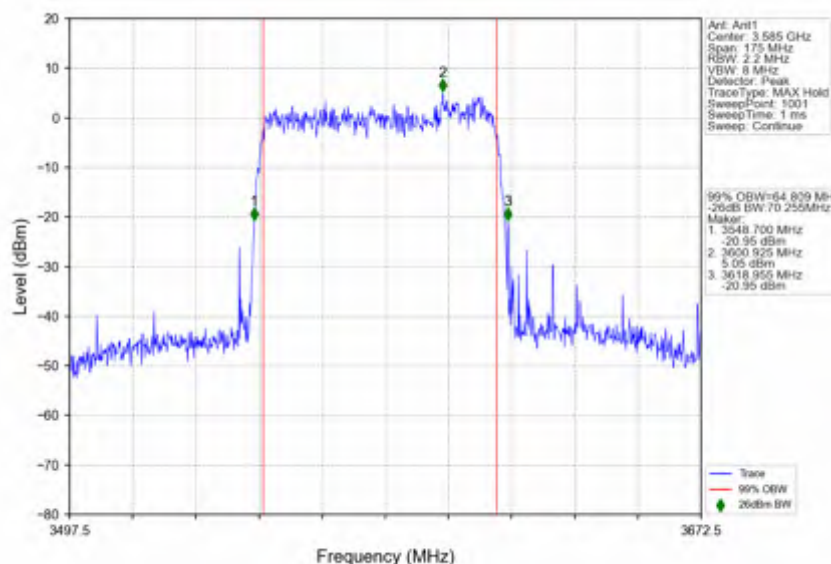
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n78d_30kHz_SISO_NTNV_70MHz_DFT-s-OFDM PI/2 BPSK_3664.98MHz_Outer_Full



n78d_30kHz_SISO_NTNV_70MHz_DFT-s-OFDM QPSK_3585MHz_Outer_Full



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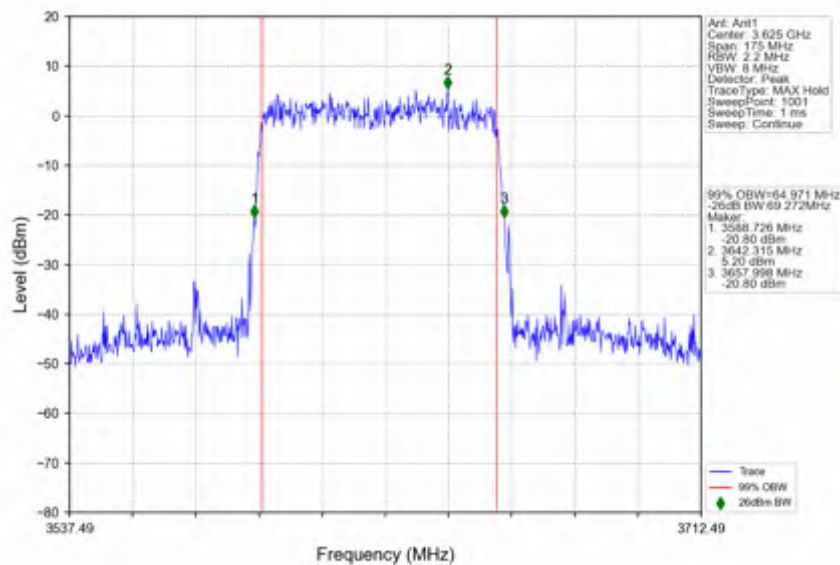
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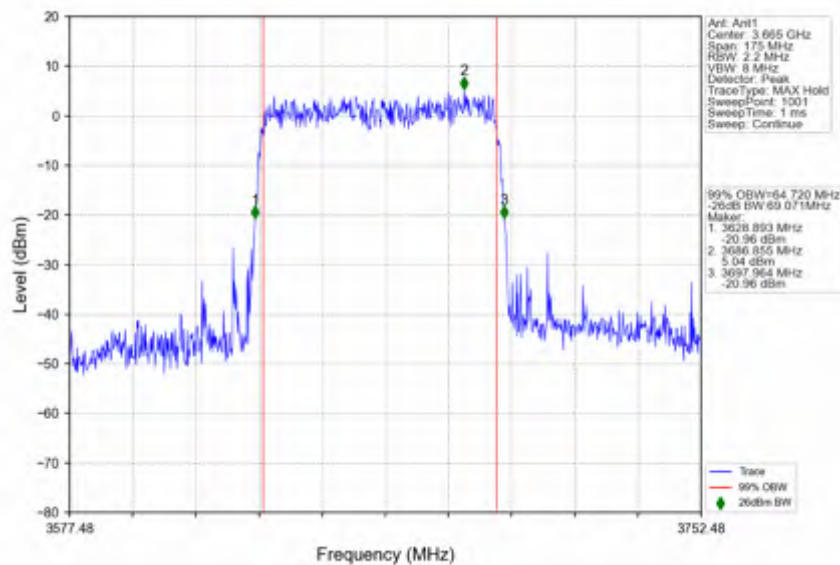
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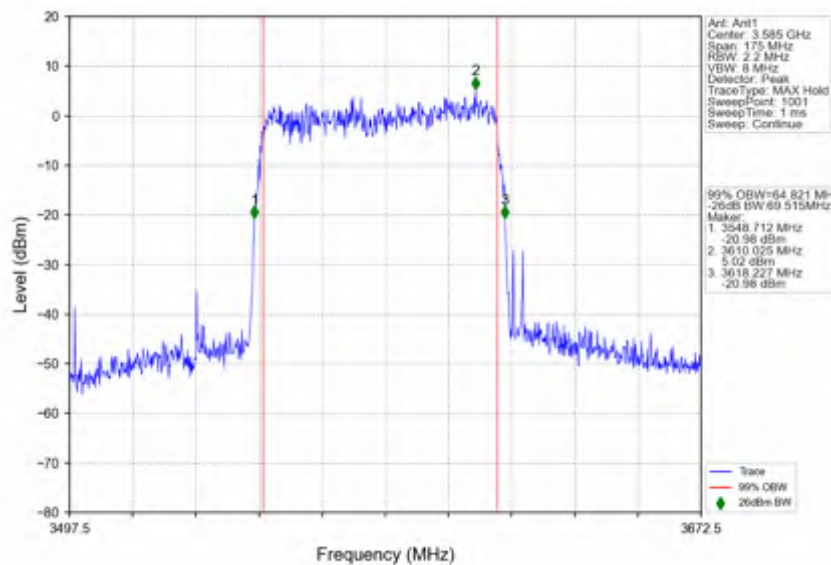


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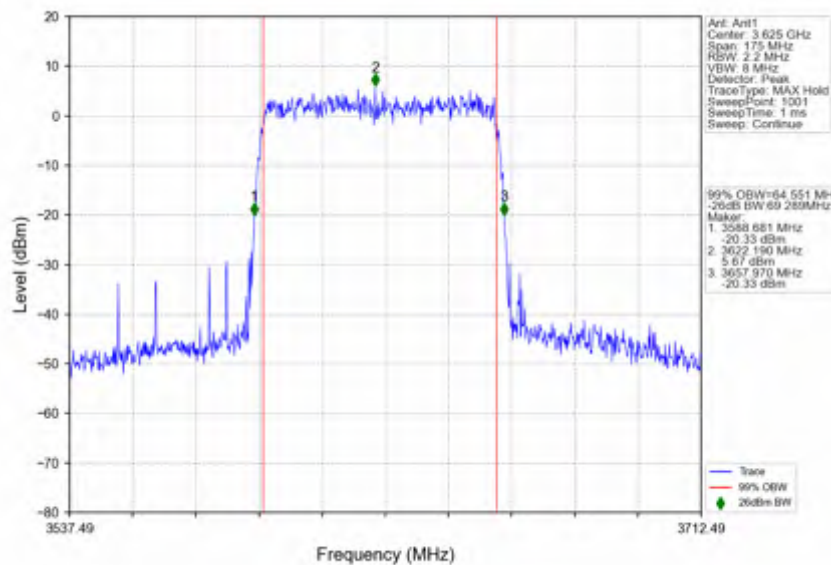
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n78d_30kHz_SISO_NTNV_70MHz_DFT-s-OFDM 16 QAM 3585MHz_Outer_Full



n78d_30kHz_SISO_NTNV_70MHz_DFT-s-OFDM 16 QAM 3624.99MHz_Outer_Full



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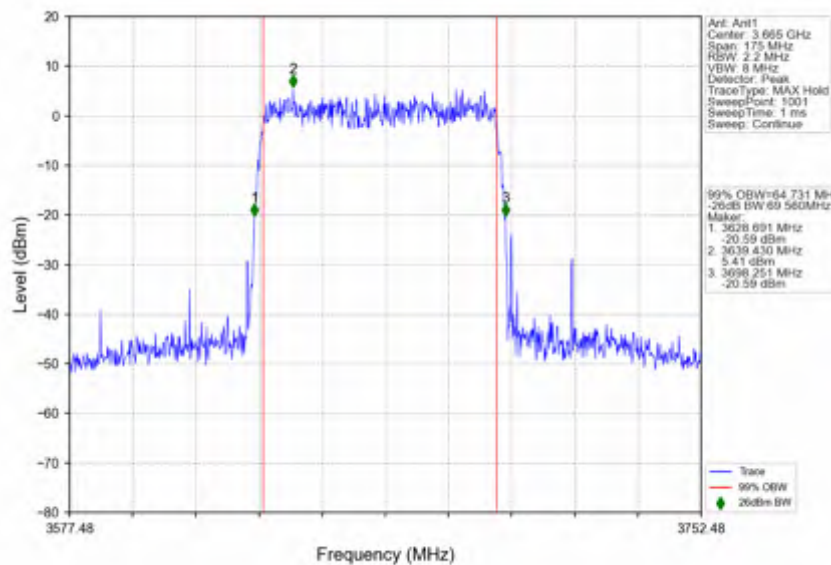
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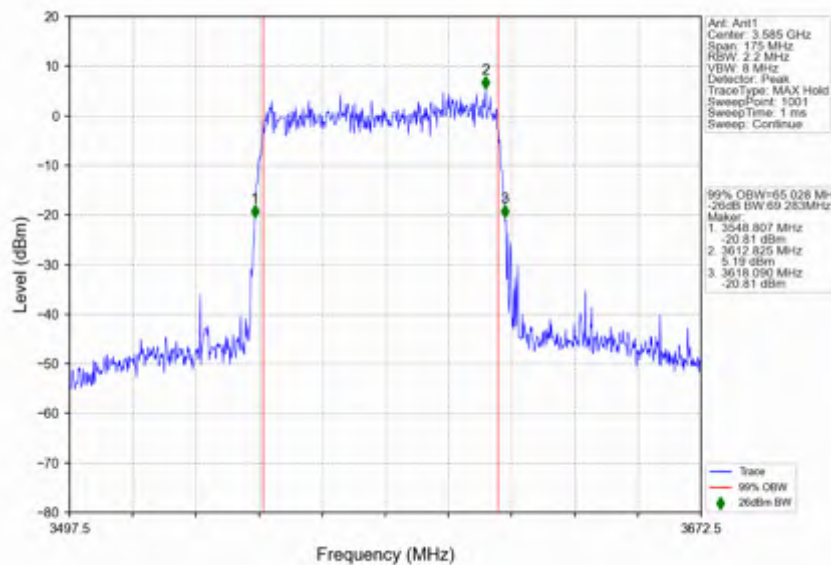
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n78d_30kHz_SISO_NTNV_70MHz_DFT-s-OFDM 64 QAM_3585MHz_Outer_Full



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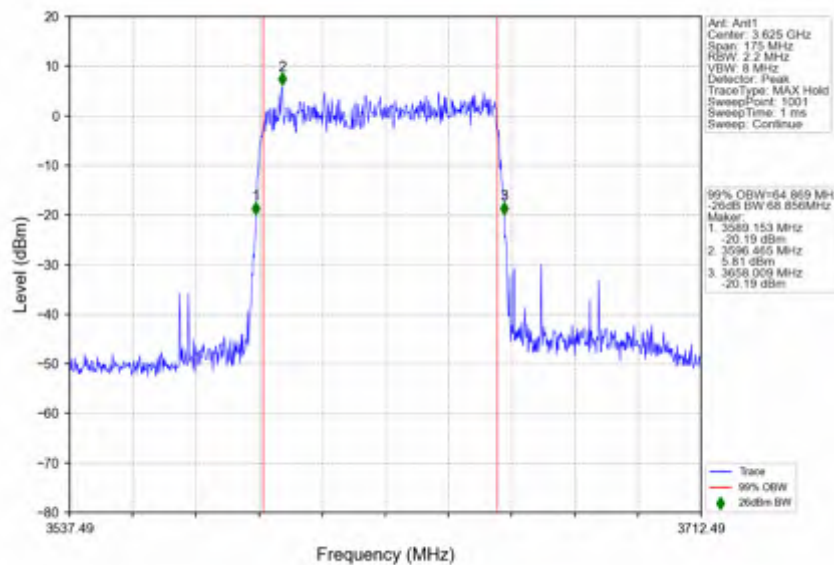
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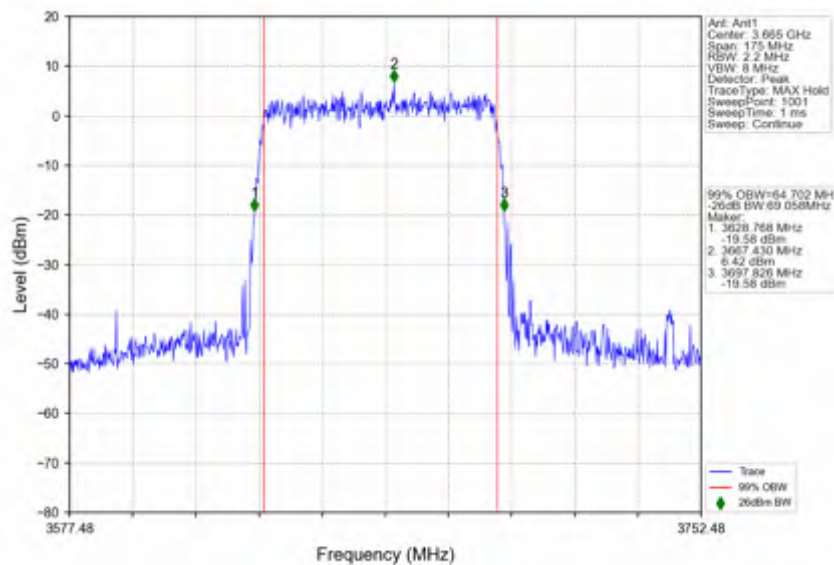
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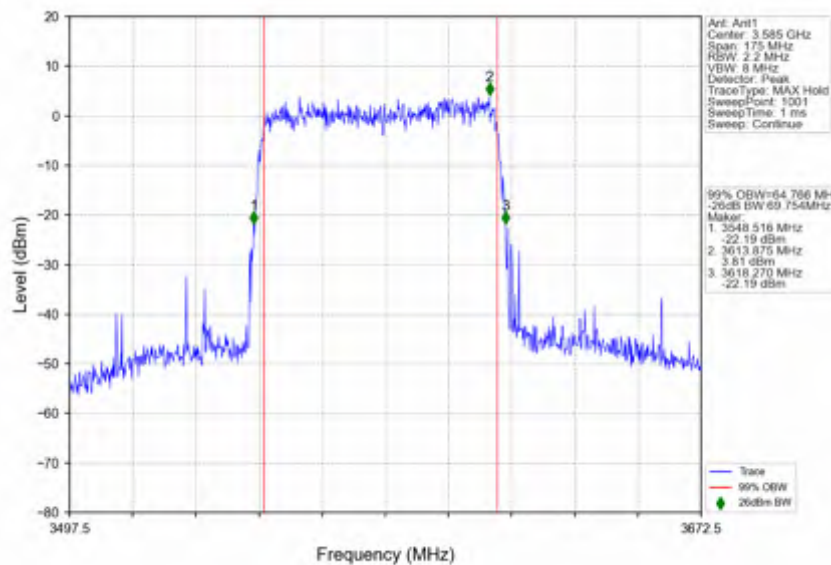
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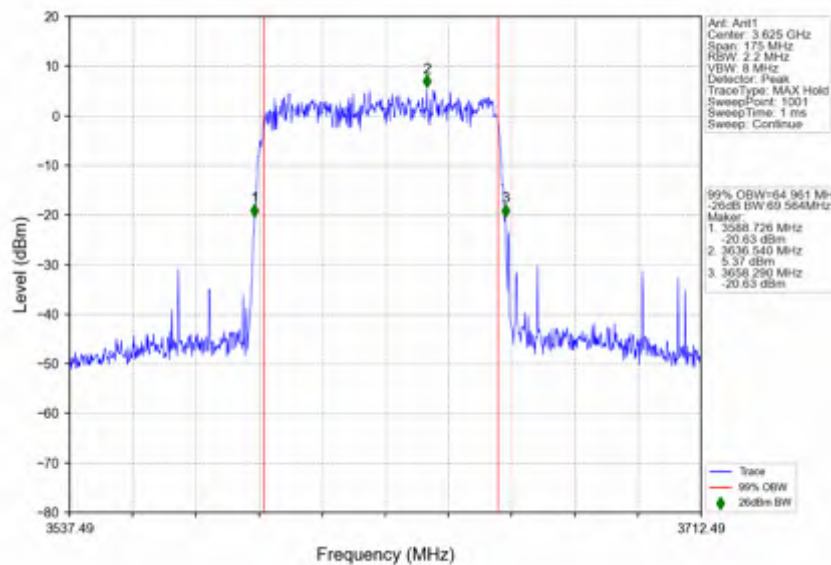
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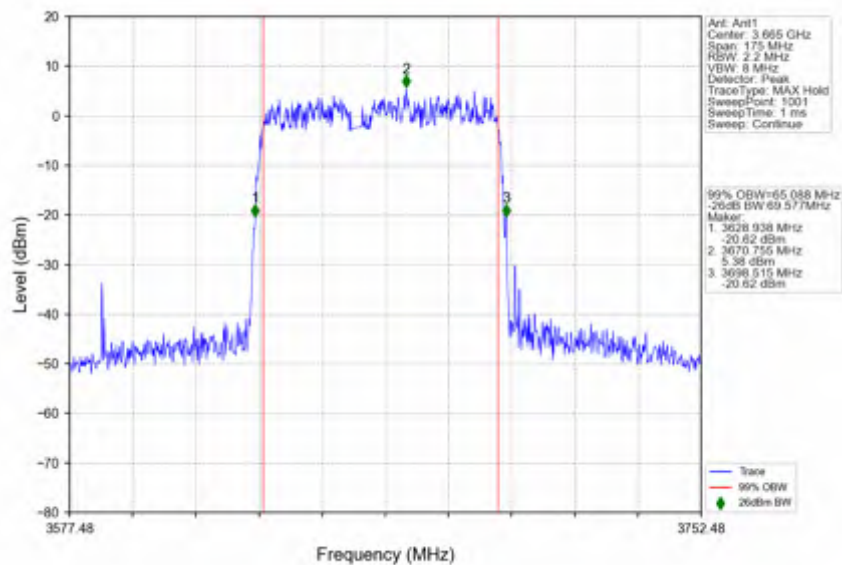
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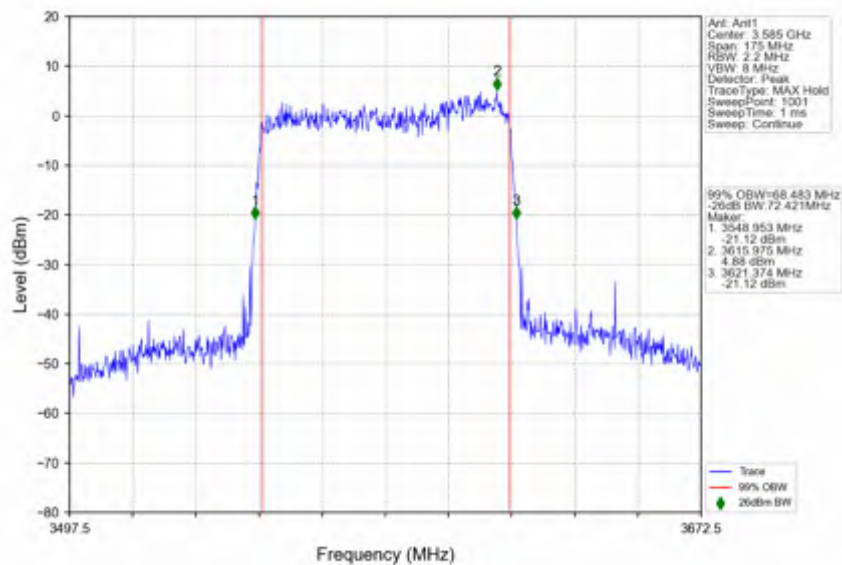
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n78d_30kHz_SISO_NTNV_70MHz_DFT-s-OFDM_256_QAM_3664.98MHz_Outer_Full



n78d_30kHz_SISO_NTNV_70MHz_CP-OFDM_QPSK_3585MHz_Outer_Full



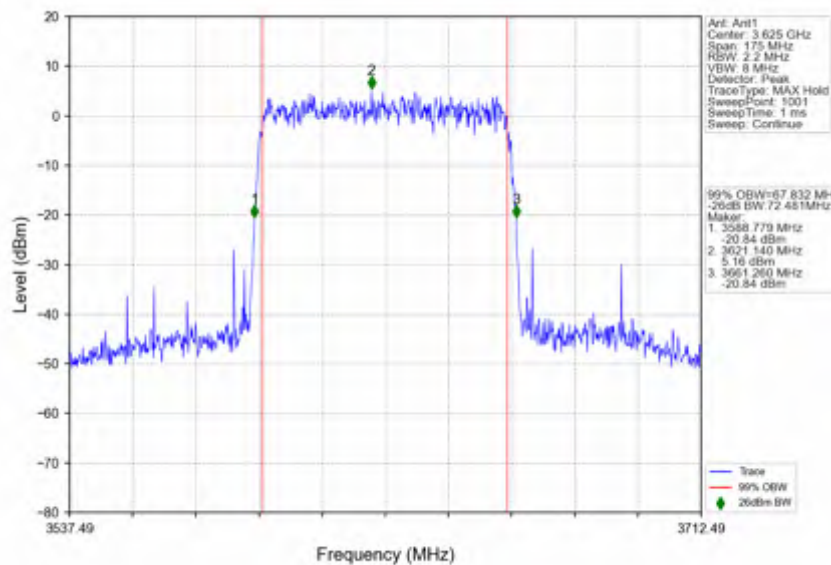
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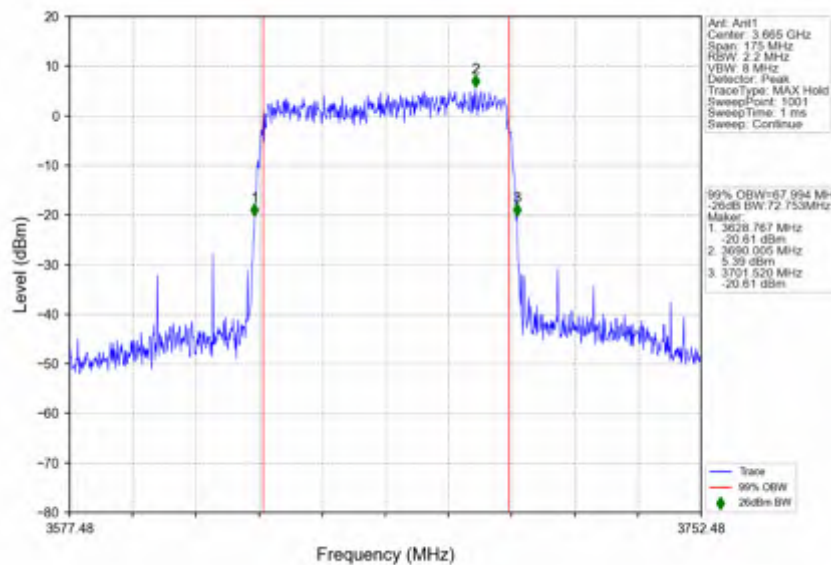
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n78d_30kHz_SISO_NTNV_70MHz_CP-OFDM_QPSK_3624.99MHz_Outer_Full



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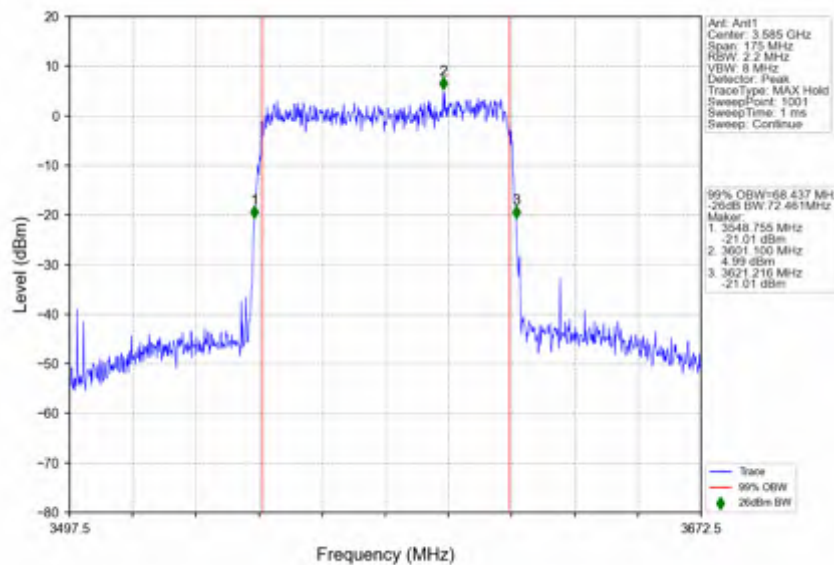
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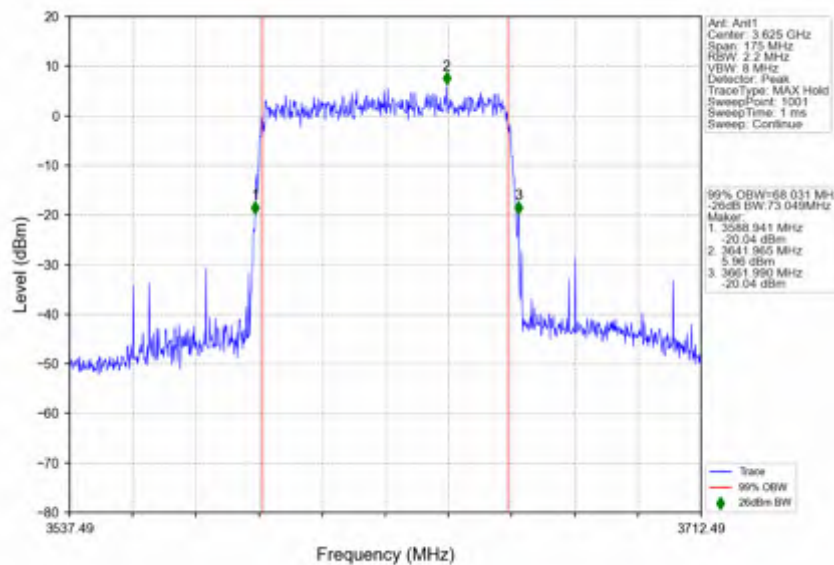
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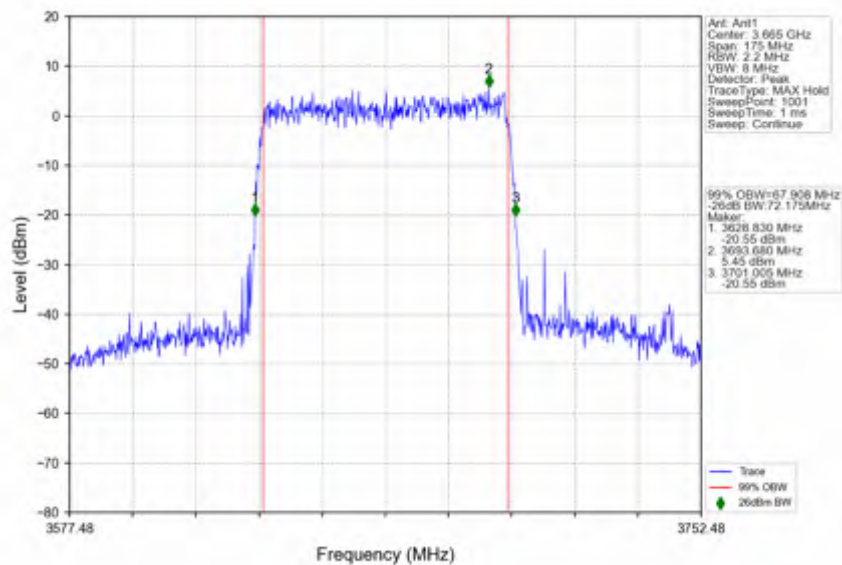
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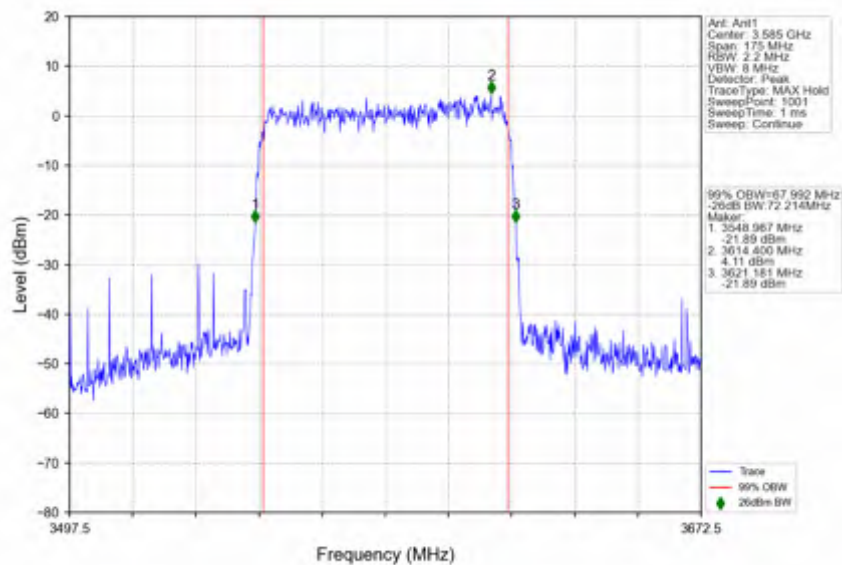
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n78d_30kHz_SISO_NTNV_70MHz_CP-OFDM 16 QAM_3664.98MHz_Outer_Full



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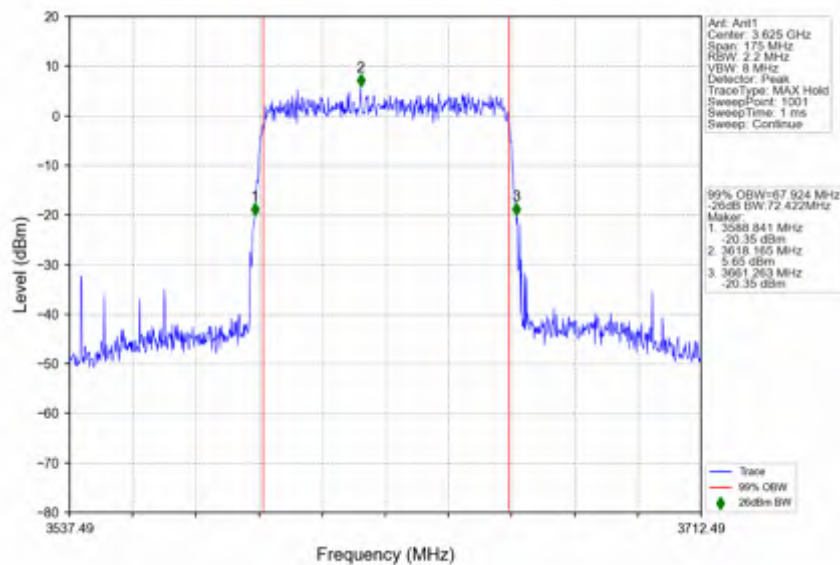
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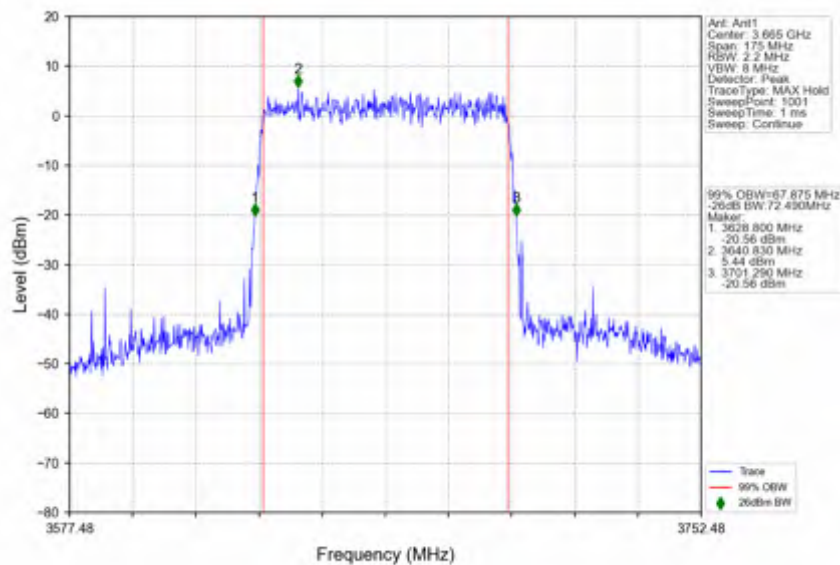
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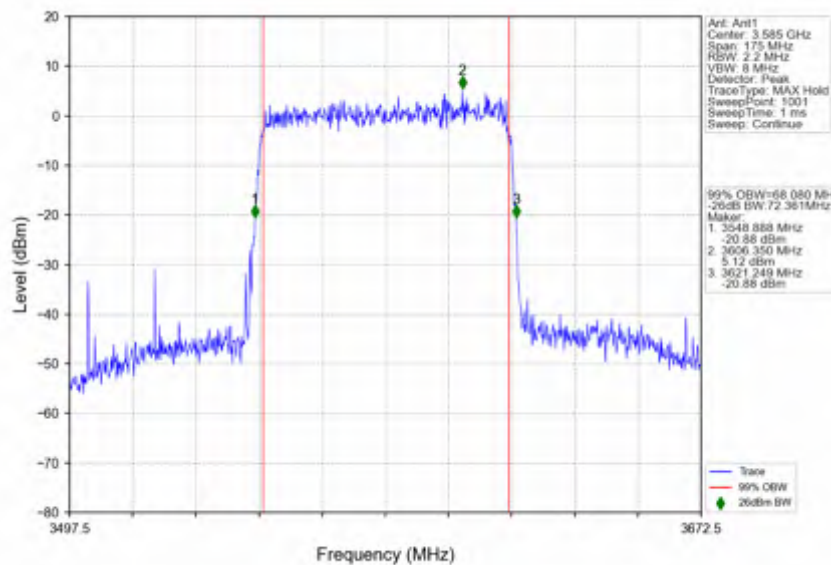


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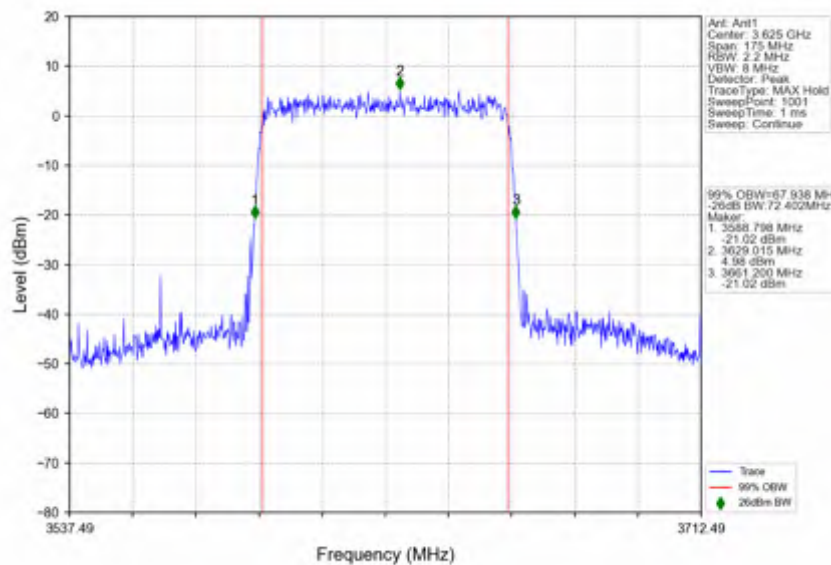
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n78d 30kHz SISO NTN_V 70MHz CP-OFDM 256 QAM 3585MHz Outer Full



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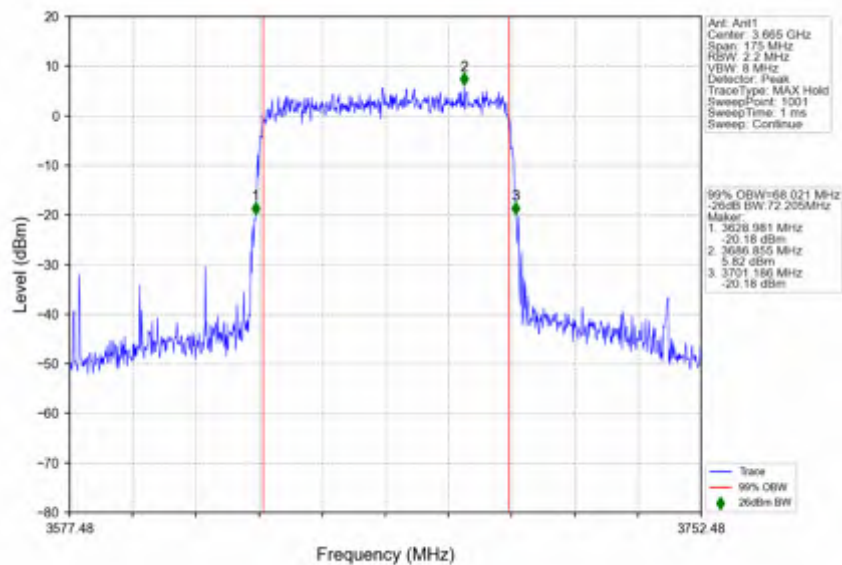


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n78d_30kHz_SISO_NTNV_70MHz_CP-OFDM_256_QAM_3664.98MHz_Outer_Full



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8.17 30k_SISO_80MHz_NTNV

8.17.1 Test Result

5G NR n78d SCS=30kHz SISO 80MHz NTV						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3590.01	Outer_Full	77.25	82.38	/	Pass
	3624.99	Outer_Full	77.66	82.66	/	Pass
	3660	Outer_Full	77.53	82.66	/	Pass
DFT-s-OFDM QPSK	3590.01	Outer_Full	77.38	82.84	/	Pass
	3624.99	Outer_Full	77.58	82.79	/	Pass
	3660	Outer_Full	77.71	82.32	/	Pass
DFT-s-OFDM 16 QAM	3590.01	Outer_Full	77.67	82.31	/	Pass
	3624.99	Outer_Full	77.43	82.32	/	Pass
	3660	Outer_Full	77.31	82.53	/	Pass
DFT-s-OFDM 64 QAM	3590.01	Outer_Full	77.90	82.49	/	Pass
	3624.99	Outer_Full	77.40	82.85	/	Pass
	3660	Outer_Full	77.33	82.41	/	Pass
DFT-s-OFDM 256 QAM	3590.01	Outer_Full	77.67	82.51	/	Pass
	3624.99	Outer_Full	77.99	82.40	/	Pass
	3660	Outer_Full	77.90	83.07	/	Pass
CP-OFDM QPSK	3590.01	Outer_Full	78.24	82.67	/	Pass
	3624.99	Outer_Full	77.47	83.03	/	Pass
	3660	Outer_Full	77.36	83.16	/	Pass
CP-OFDM 16 QAM	3590.01	Outer_Full	77.86	82.94	/	Pass
	3624.99	Outer_Full	77.79	83.05	/	Pass
	3660	Outer_Full	77.83	82.84	/	Pass
CP-OFDM 64 QAM	3590.01	Outer_Full	77.84	82.87	/	Pass
	3624.99	Outer_Full	77.86	83.02	/	Pass
	3660	Outer_Full	77.69	82.74	/	Pass
CP-OFDM 256 QAM	3590.01	Outer_Full	77.81	85.20	/	Pass
	3624.99	Outer_Full	77.94	83.02	/	Pass
	3660	Outer_Full	78.17	82.82	/	Pass



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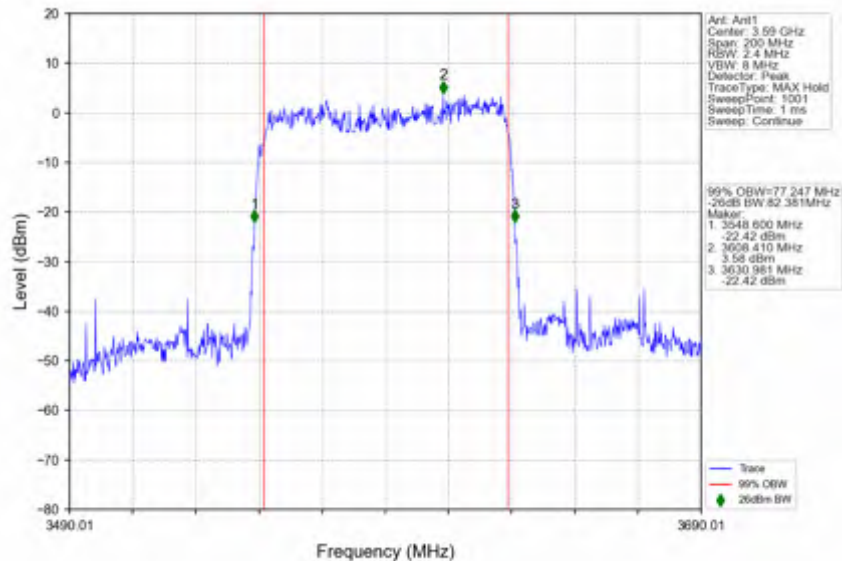
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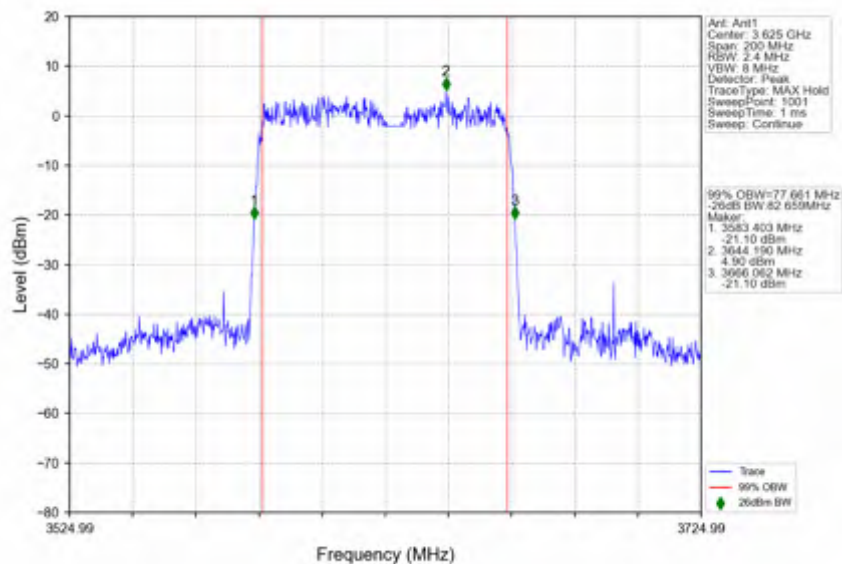
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8.17.2 Test Graph

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n78d_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM PI/2 BPSK_3624.99MHz_Outer_Full



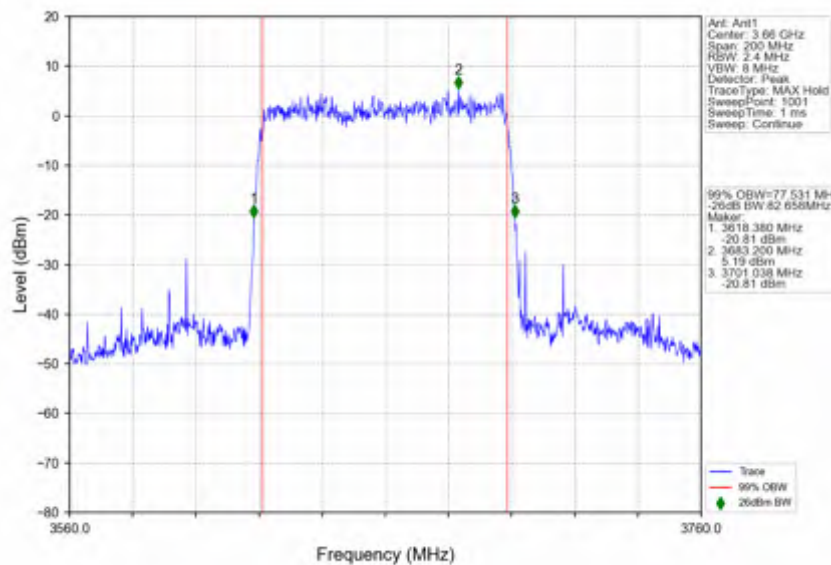
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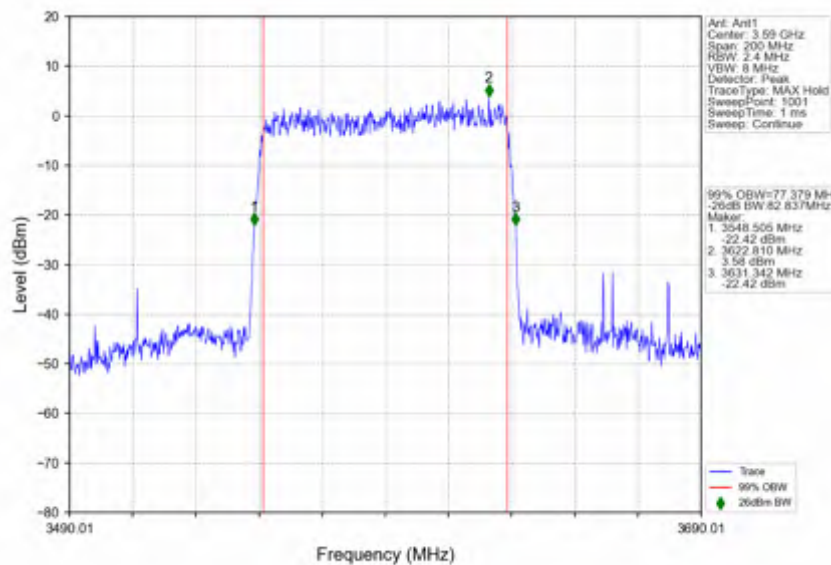
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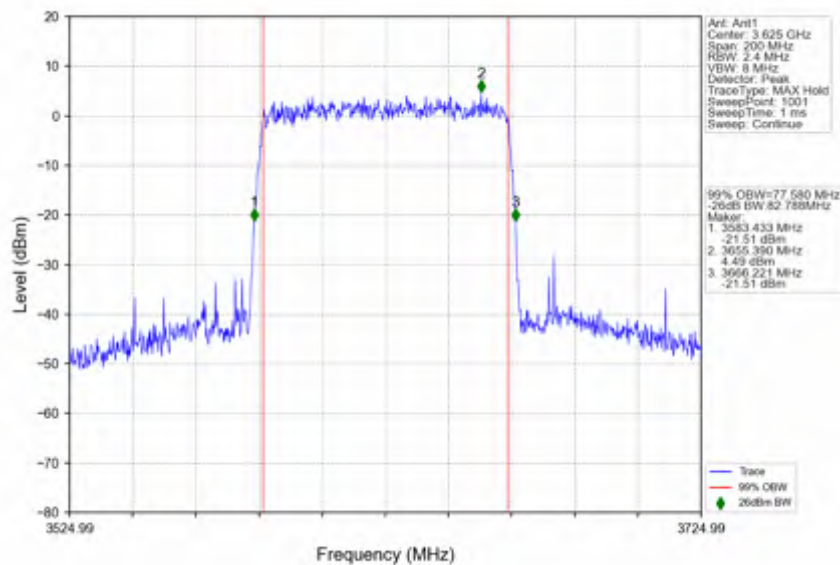


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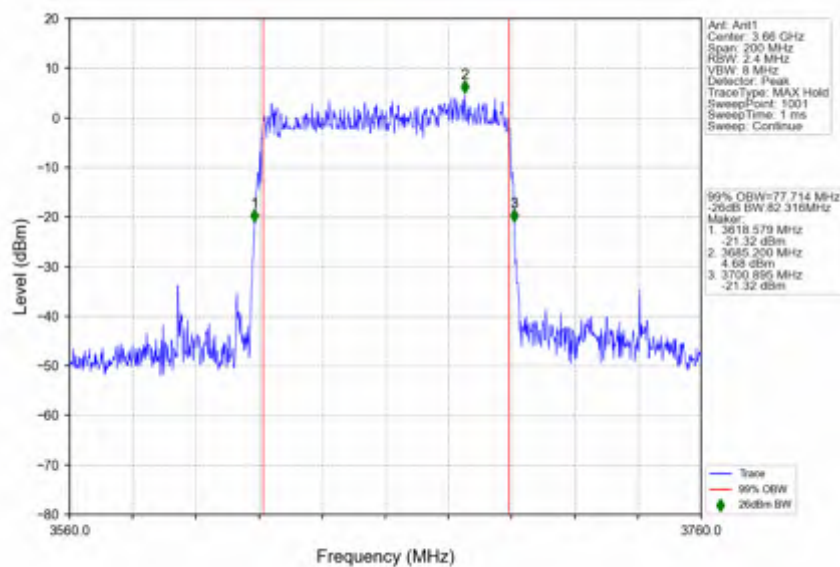
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n78d 30kHz SISO NTNv 80MHz DFT-s-OFDM QPSK 3660MHz Outer Full

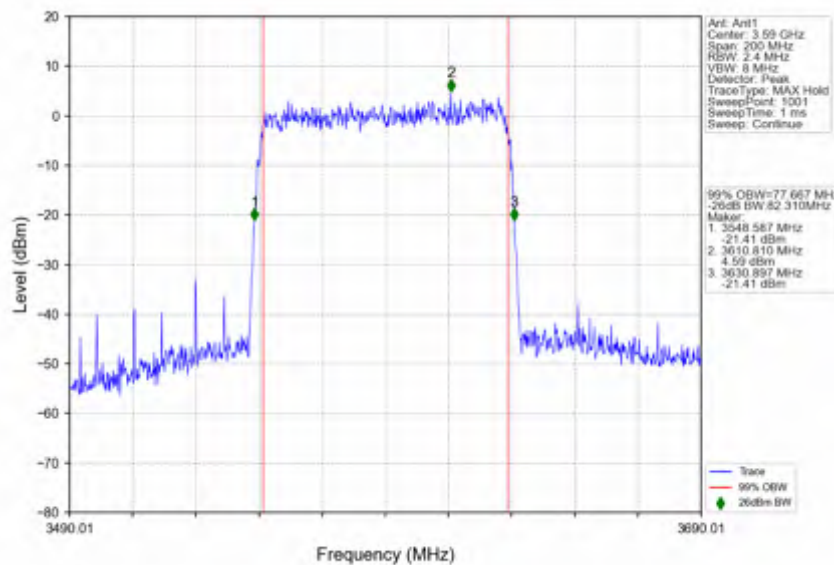


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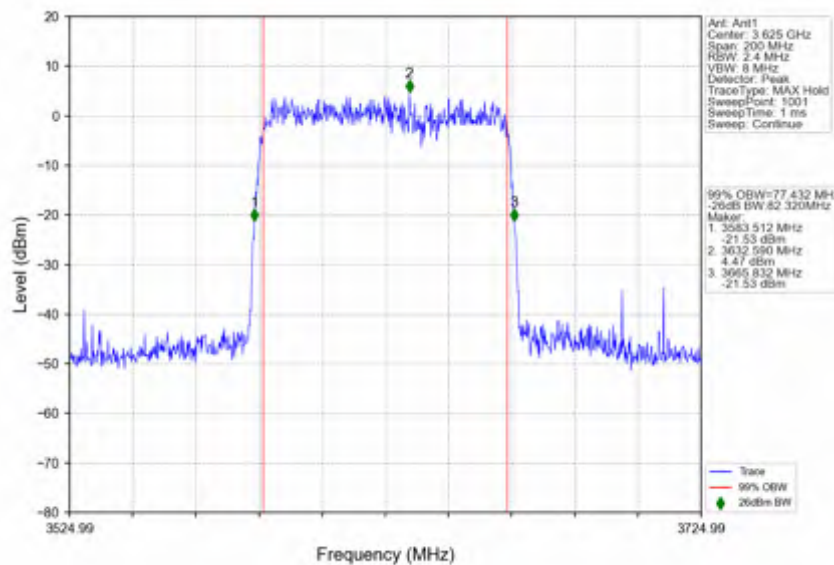
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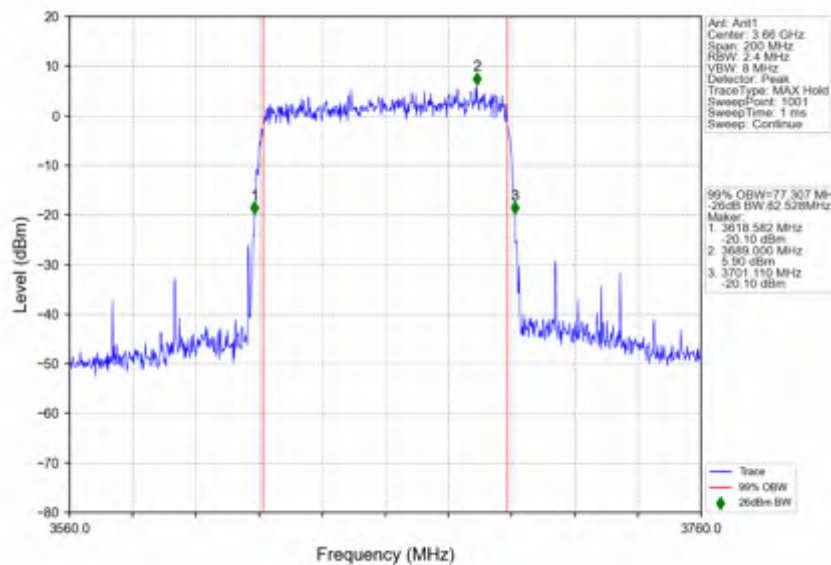


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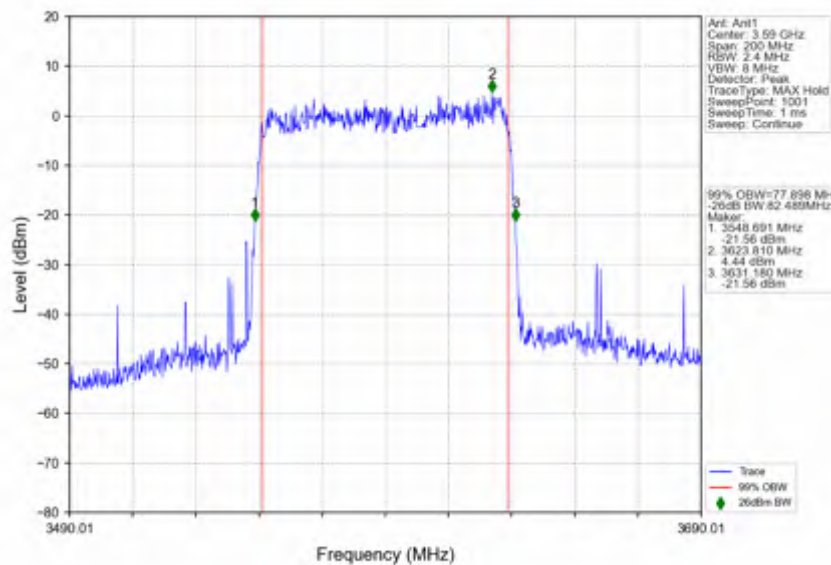
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n78d_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM 16 QAM_3660MHz_Outer_Full



n78d_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM 64 QAM_3590.01MHz_Outer_Full



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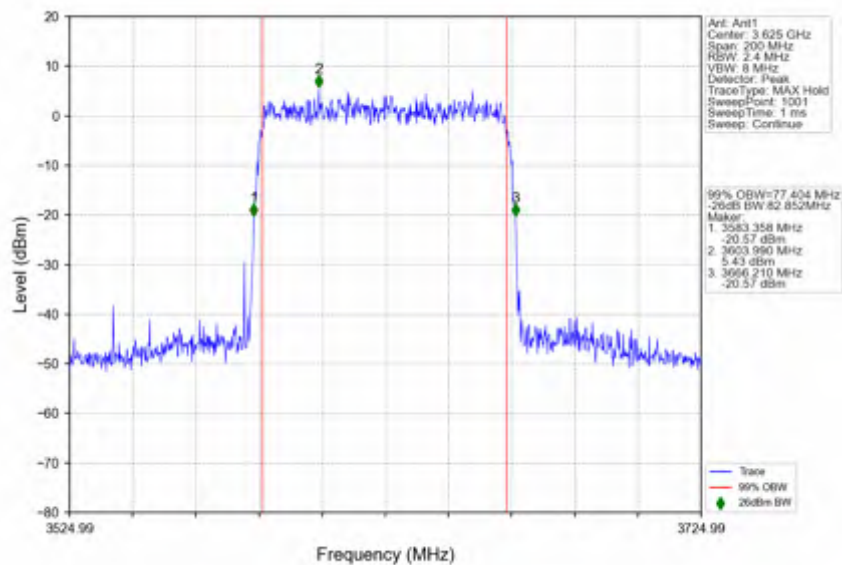
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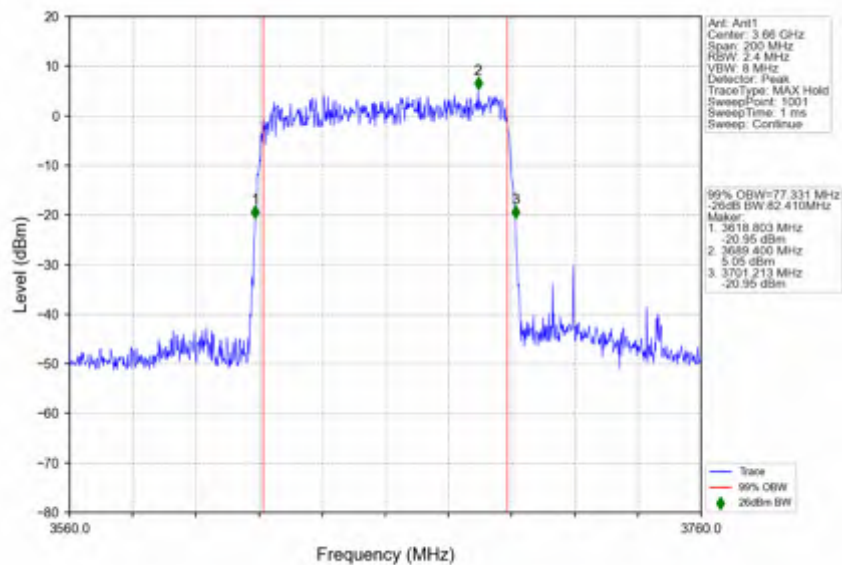
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n78d_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM_64_QAM_3624.99MHz_Outer_Full



n78d_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM_64_QAM_3660MHz_Outer_Full

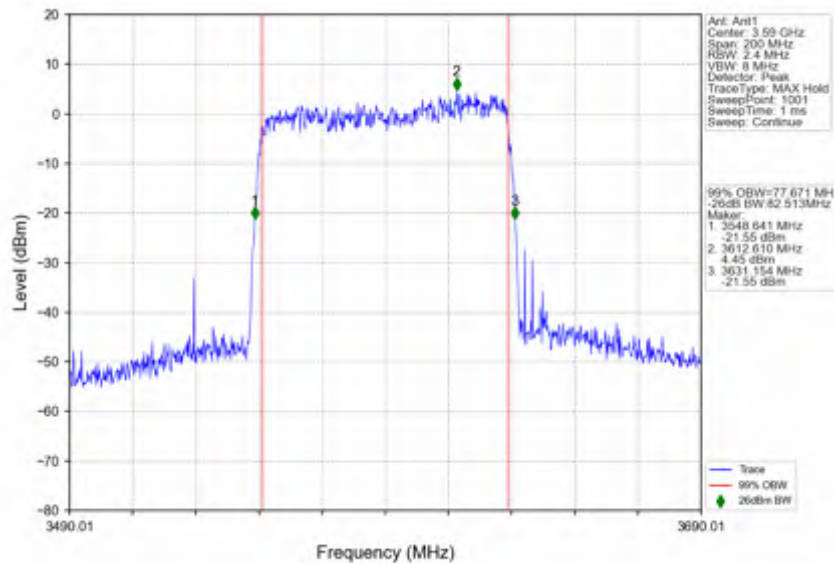


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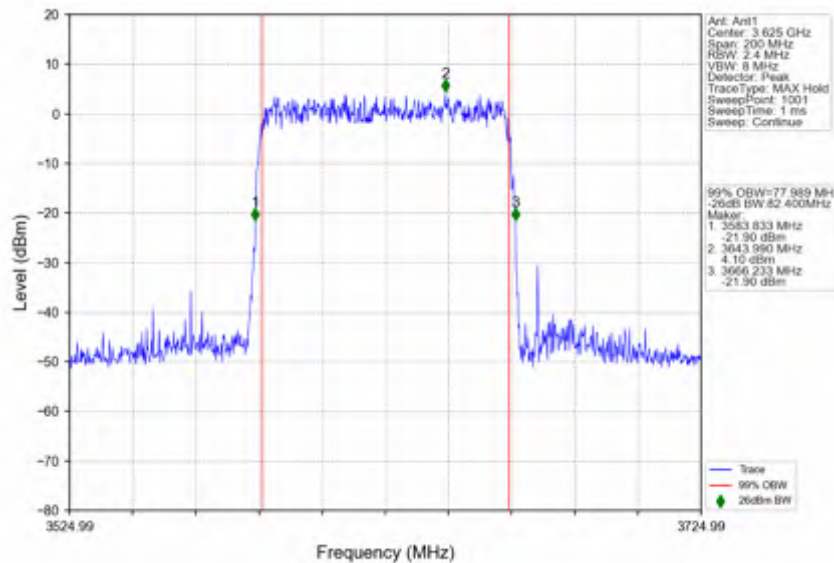
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n78d	30kHz	SISO	NTNV	80MHz	DFT-s-OFDM	256 QAM	3590.01MHz	Outer	Full
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n78d_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM_256_QAM_3624.99MHz_Outer_Full

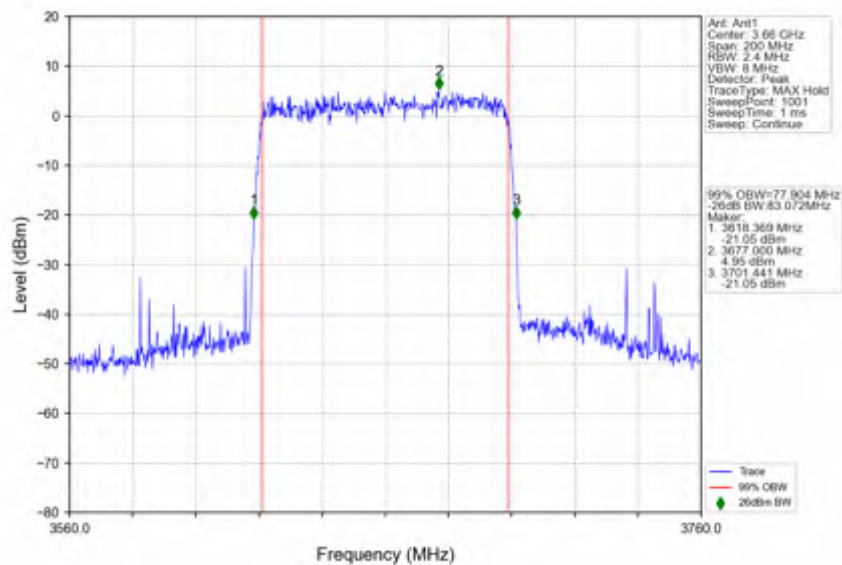


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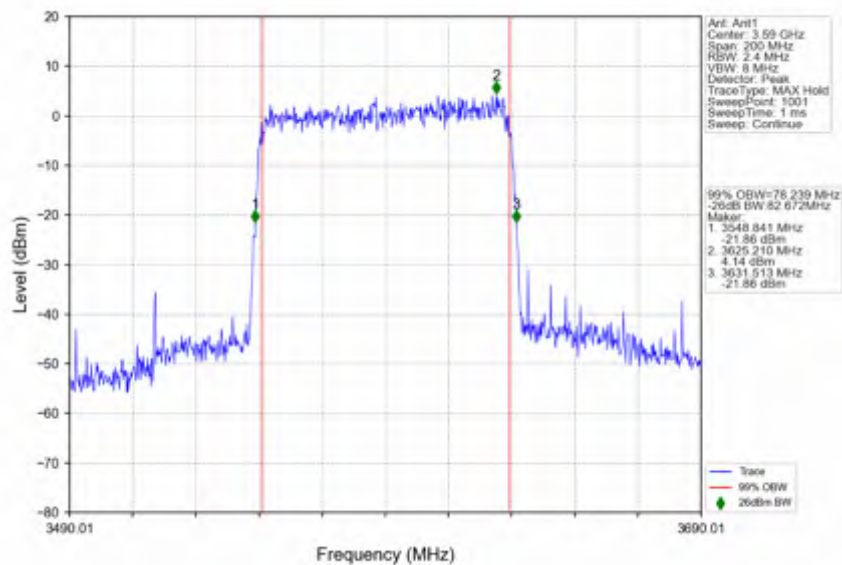
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n78d_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM_256_QAM_3660MHz_Outer_Full



n78d_30kHz_SISO_NTNV_80MHz_CP-OFDM_QPSK_3590.01MHz_Outer_Full



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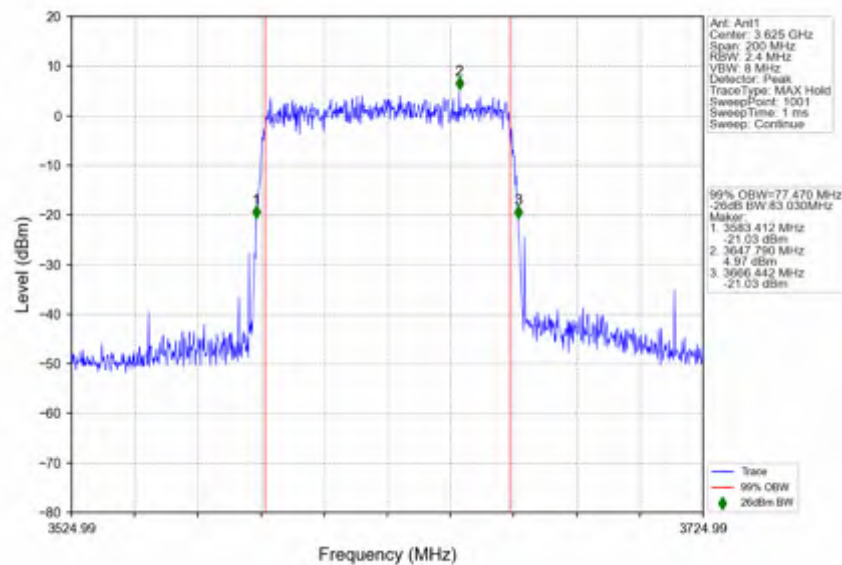
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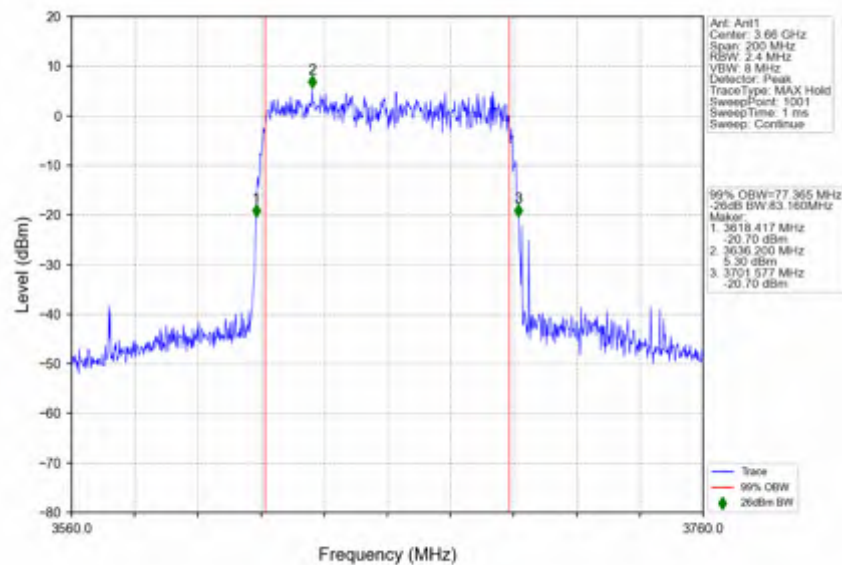
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n78d_30kHz_SISO_NTNV_80MHz_CP-OFDM QPSK_3624.99MHz_Outer_Full



n78d_30kHz_SISO_NTNV_80MHz_CP-OFDM QPSK_3660MHz_Outer_Full



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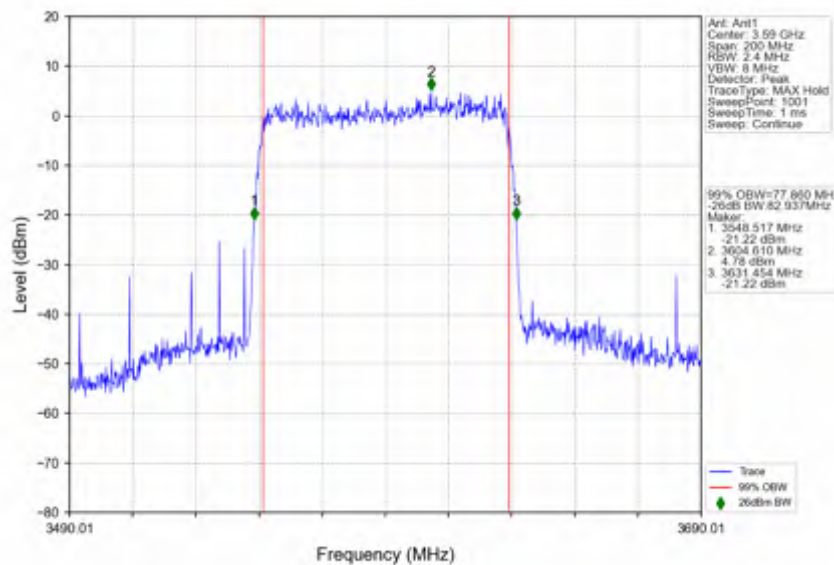
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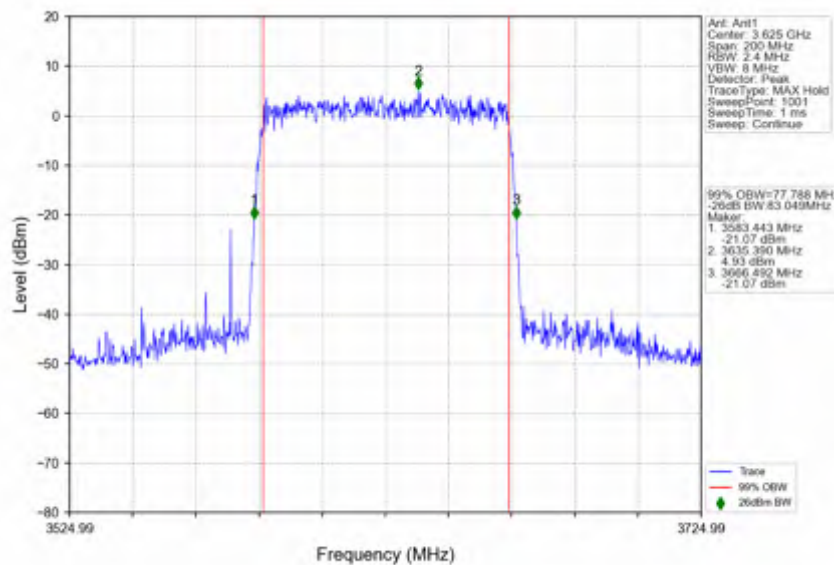
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n78d_30kHz_SISO_NTNV_80MHz_CP-OFDM 16 QAM 3590.01MHz_Outer_Full



n78d_30kHz_SISO_NTNV_80MHz_CP-OFDM 16 QAM 3624.99MHz_Outer_Full



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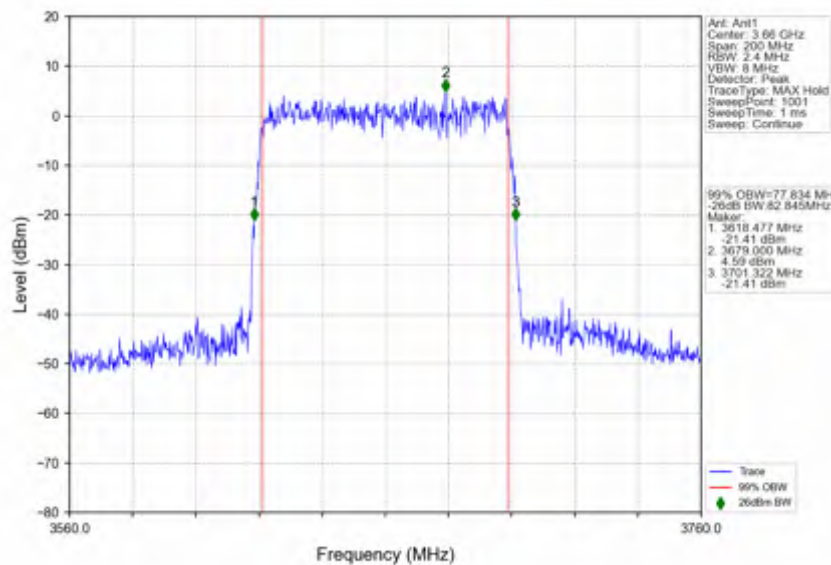
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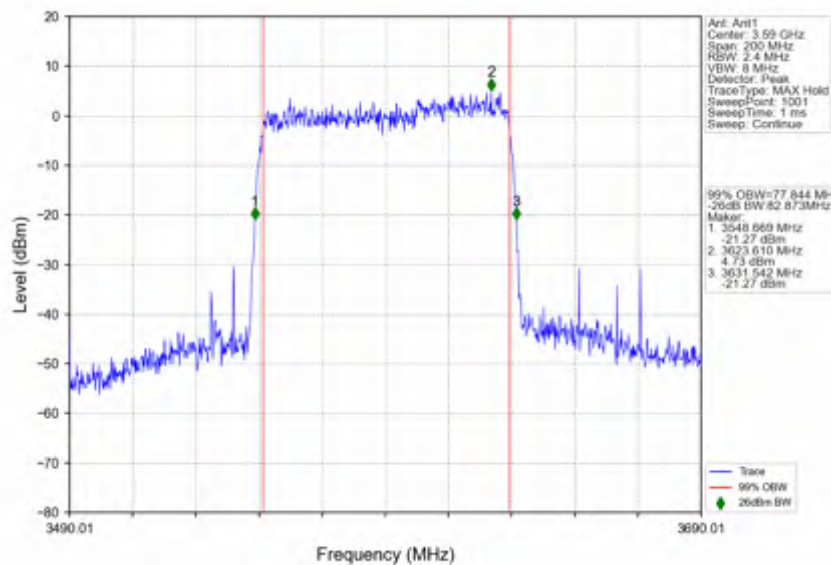
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n78d_30kHz_SISO_NTNV_80MHz_CP-OFDM 16 QAM_3660MHz_Outer_Full



n78d_30kHz_SISO_NTNV_80MHz_CP-OFDM 64 QAM_3590.01MHz_Outer_Full



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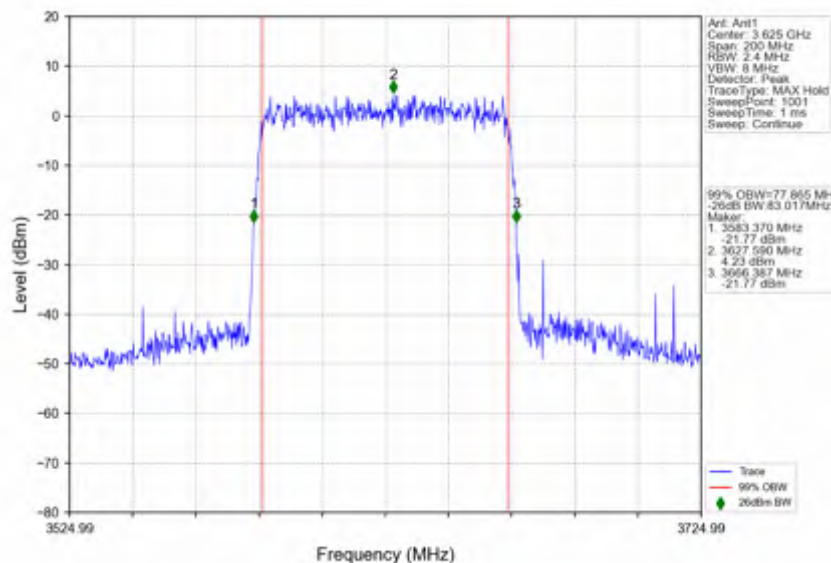
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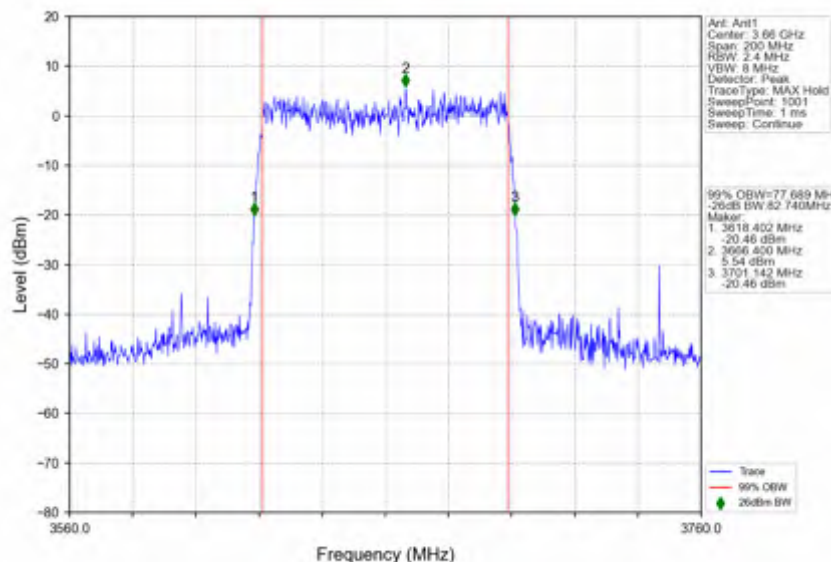
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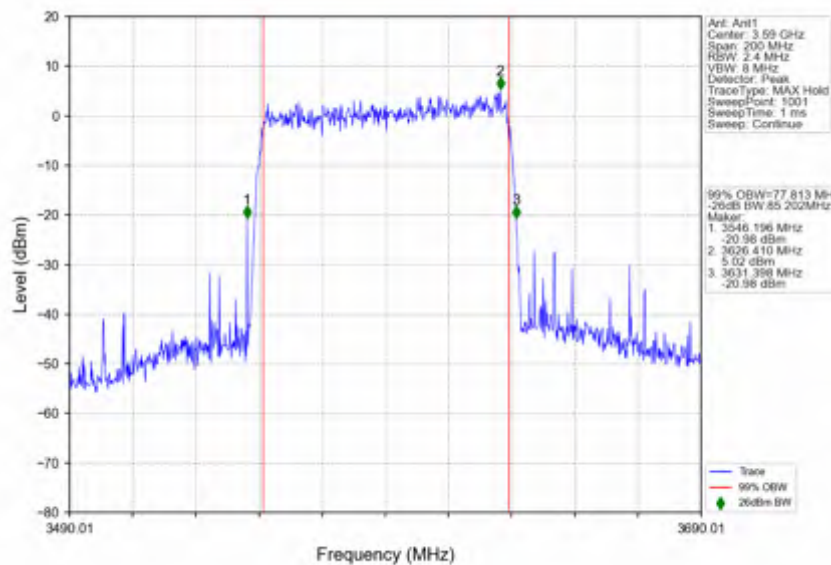
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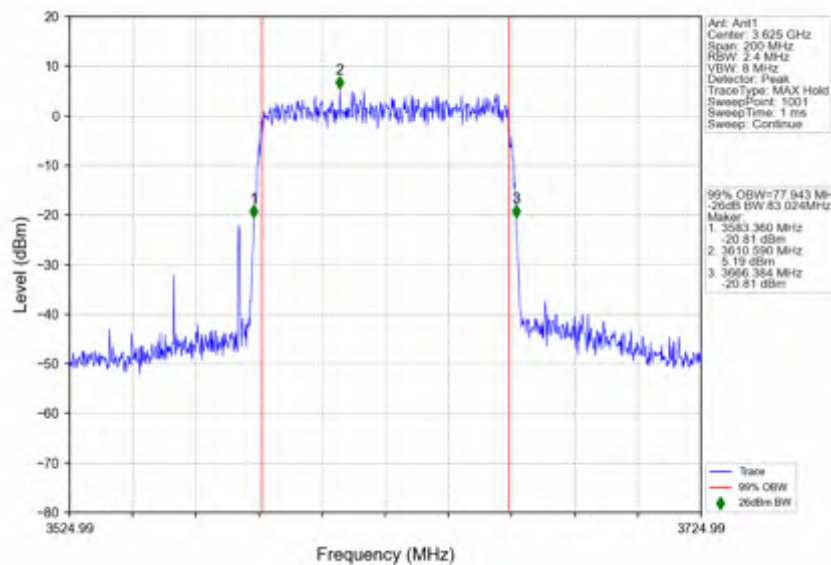
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n78d_30kHz_SISO_NTNV_80MHz_CP-OFDM_256_QAM_3590.01MHz_Outer_Full



n78d_30kHz_SISO_NTNV_80MHz_CP-OFDM_256_QAM_3624.99MHz_Outer_Full



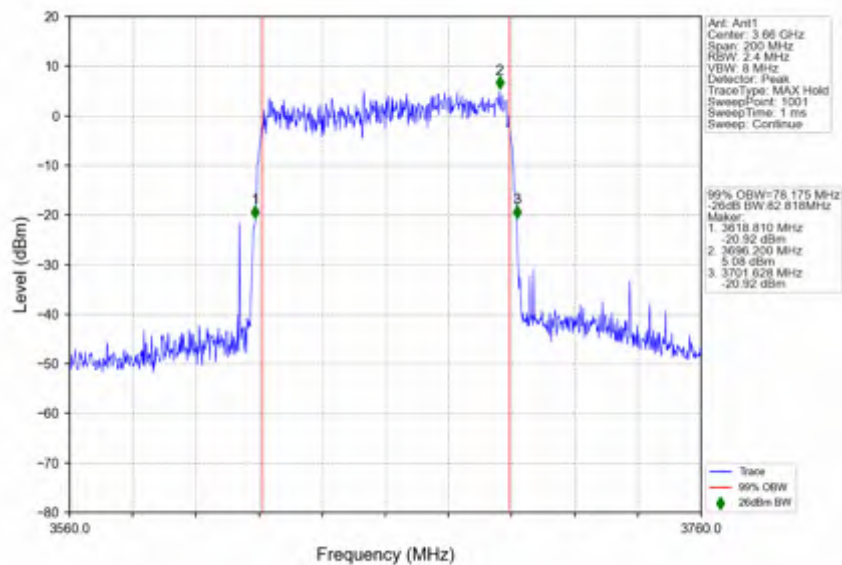
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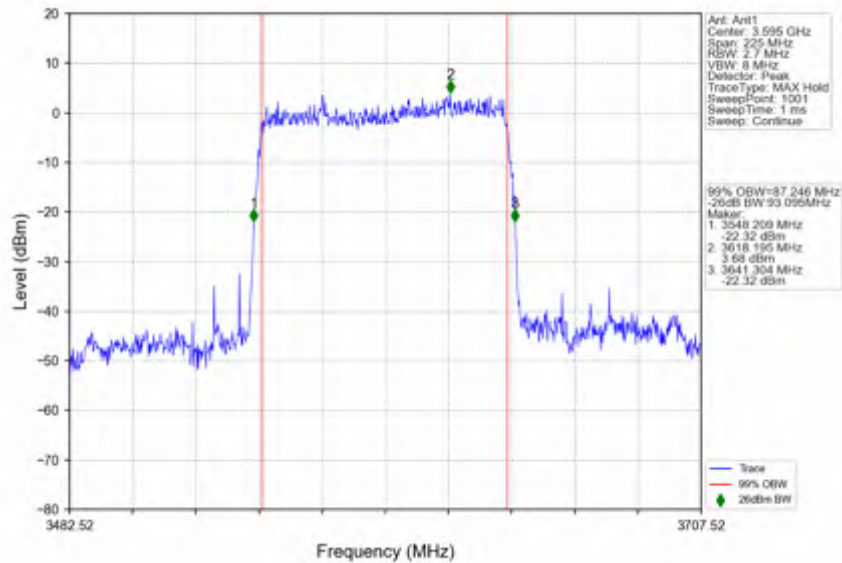
8.18 30k_SISO_90MHz_NTNV

8.18.1 Test Result

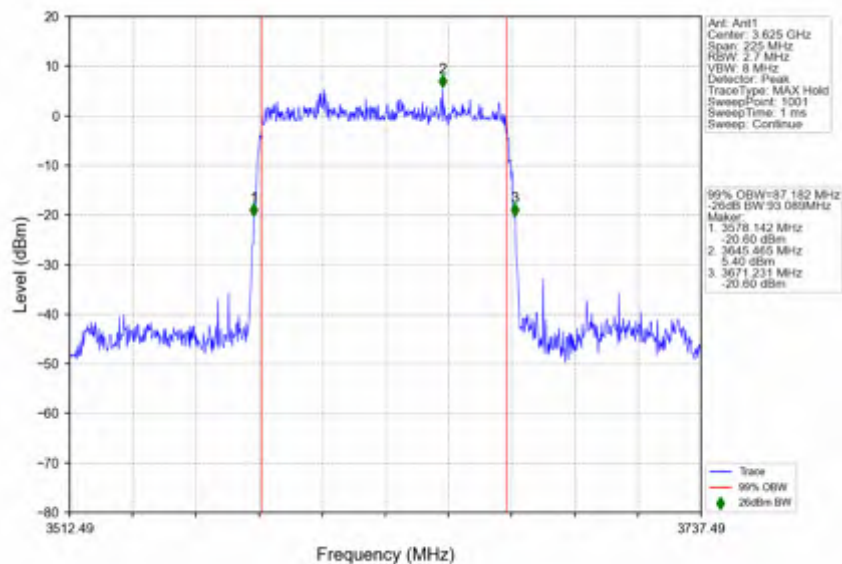
5G NR n78d SCS=30kHz SISO 90MHz NTV						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3595.02	Outer_Full	87.25	93.09	/	Pass
	3624.99	Outer_Full	87.18	93.09	/	Pass
	3654.99	Outer_Full	86.73	92.96	/	Pass
DFT-s-OFDM QPSK	3595.02	Outer_Full	86.96	92.40	/	Pass
	3624.99	Outer_Full	87.15	92.86	/	Pass
	3654.99	Outer_Full	87.28	93.34	/	Pass
DFT-s-OFDM 16 QAM	3595.02	Outer_Full	86.74	92.83	/	Pass
	3624.99	Outer_Full	87.26	92.69	/	Pass
	3654.99	Outer_Full	87.14	92.81	/	Pass
DFT-s-OFDM 64 QAM	3595.02	Outer_Full	87.23	92.53	/	Pass
	3624.99	Outer_Full	87.05	92.90	/	Pass
	3654.99	Outer_Full	86.99	92.96	/	Pass
DFT-s-OFDM 256 QAM	3595.02	Outer_Full	86.78	92.80	/	Pass
	3624.99	Outer_Full	87.13	93.01	/	Pass
	3654.99	Outer_Full	87.06	92.83	/	Pass
CP-OFDM QPSK	3595.02	Outer_Full	87.55	93.25	/	Pass
	3624.99	Outer_Full	87.74	92.97	/	Pass
	3654.99	Outer_Full	88.29	93.39	/	Pass
CP-OFDM 16 QAM	3595.02	Outer_Full	87.44	93.69	/	Pass
	3624.99	Outer_Full	87.85	93.60	/	Pass
	3654.99	Outer_Full	87.94	93.01	/	Pass
CP-OFDM 64 QAM	3595.02	Outer_Full	88.06	93.46	/	Pass
	3624.99	Outer_Full	88.06	93.52	/	Pass
	3654.99	Outer_Full	88.10	93.49	/	Pass
CP-OFDM 256 QAM	3595.02	Outer_Full	87.74	93.68	/	Pass
	3624.99	Outer_Full	87.99	93.54	/	Pass
	3654.99	Outer_Full	88.40	93.31	/	Pass

8.18.2 Test Graph

n78d_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM PI/2 BPSK_3595.02MHz_Outer_Full



n78d_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM PI/2 BPSK_3624.99MHz_Outer_Full



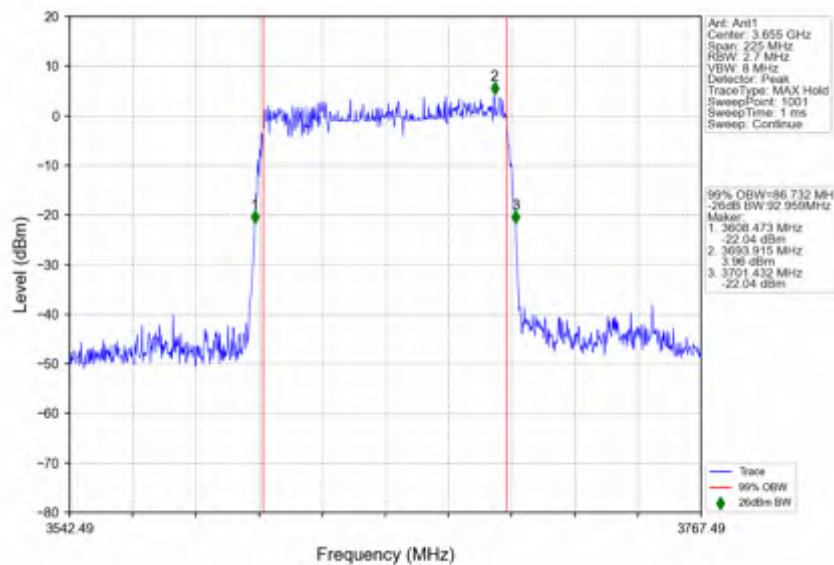
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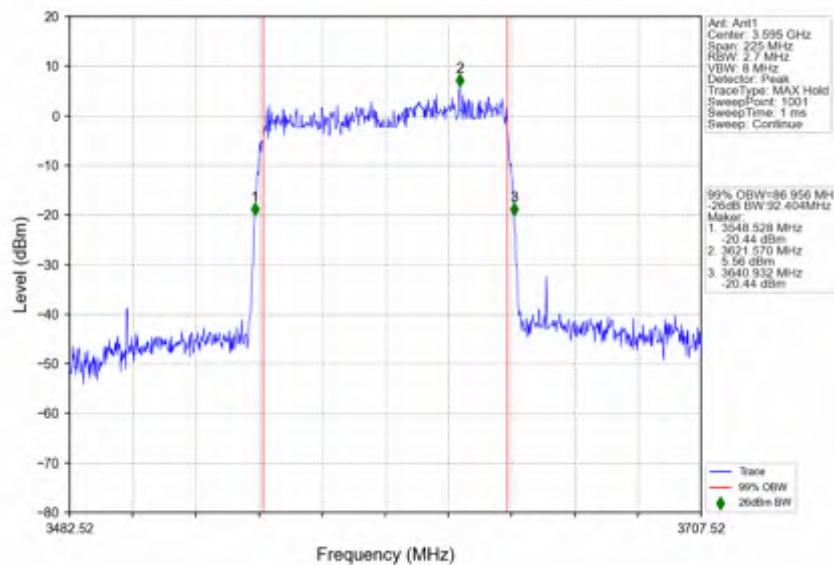
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n78d_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM PI/2 BPSK_3654.99MHz_Outer_Full



n78d_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM QPSK_3595.02MHz_Outer_Full



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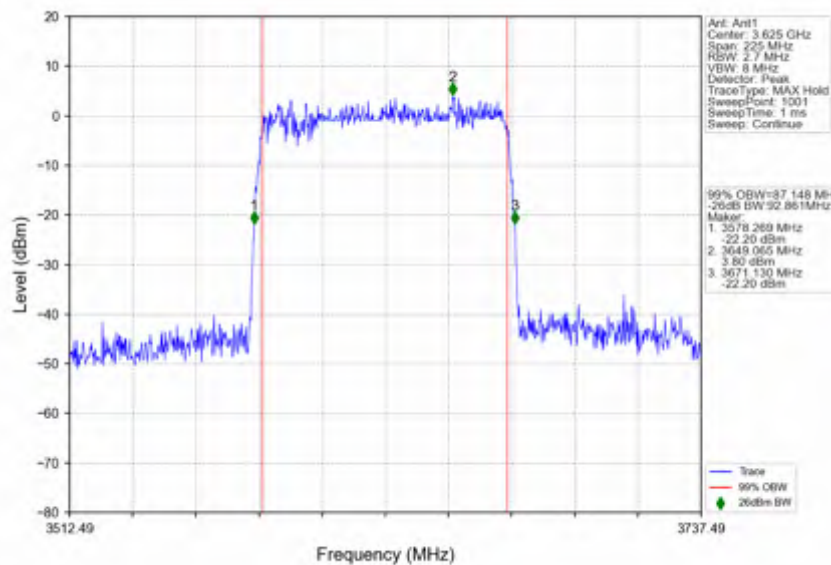
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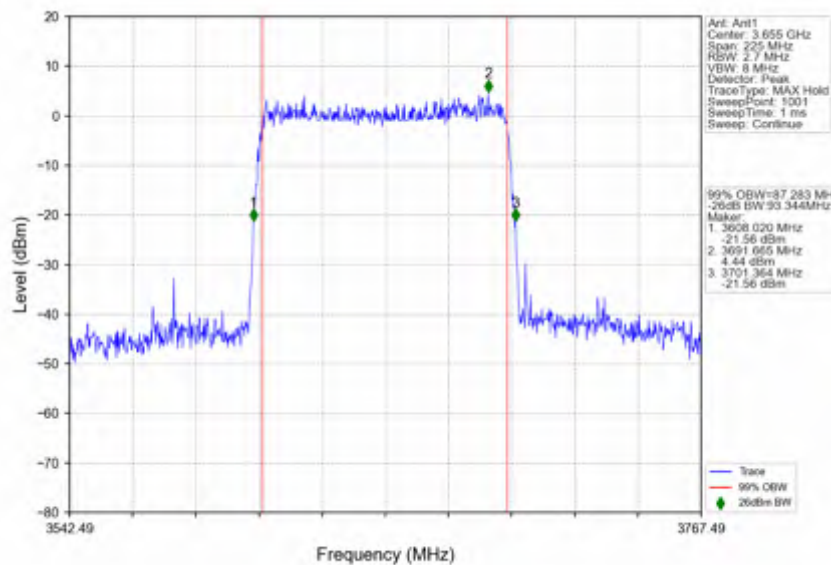
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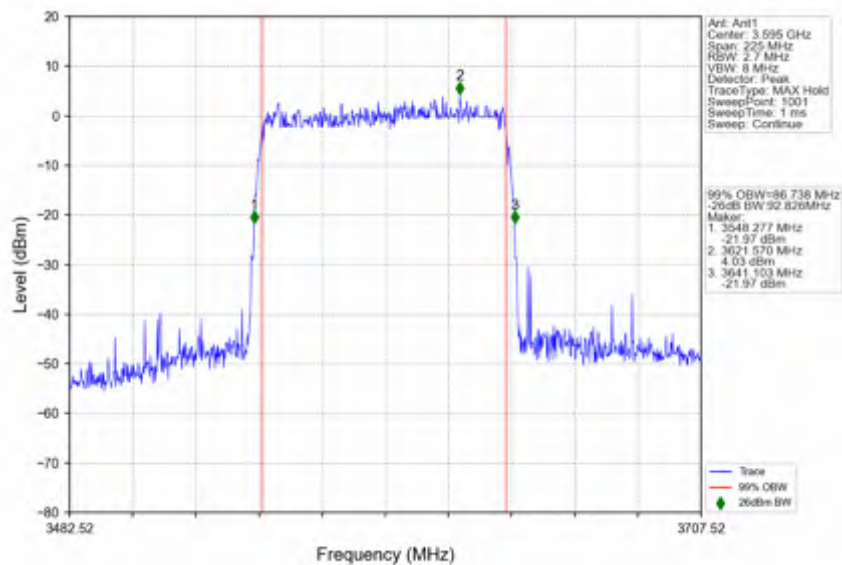
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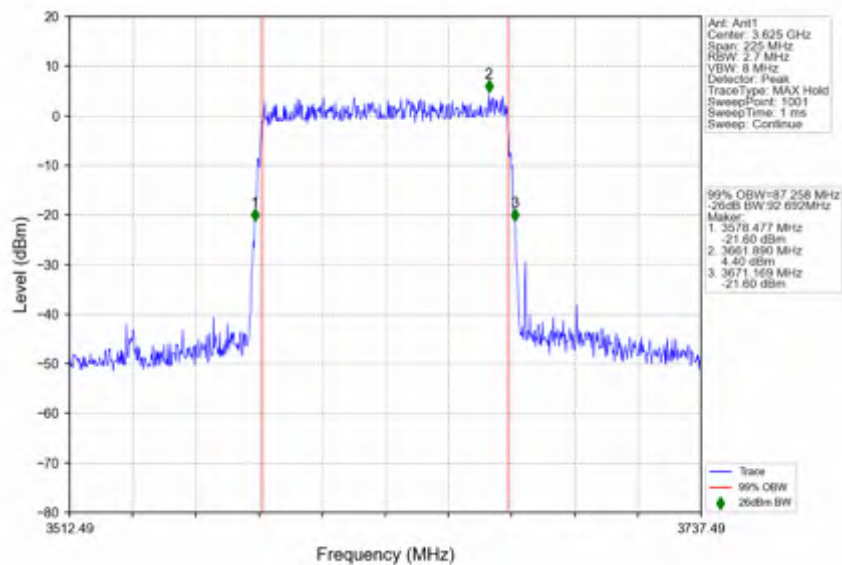
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n78d_30kHz_SISO_NTV_90MHz_DFT-s-OFDM_16_QAM_3595.02MHz_Outer_Full



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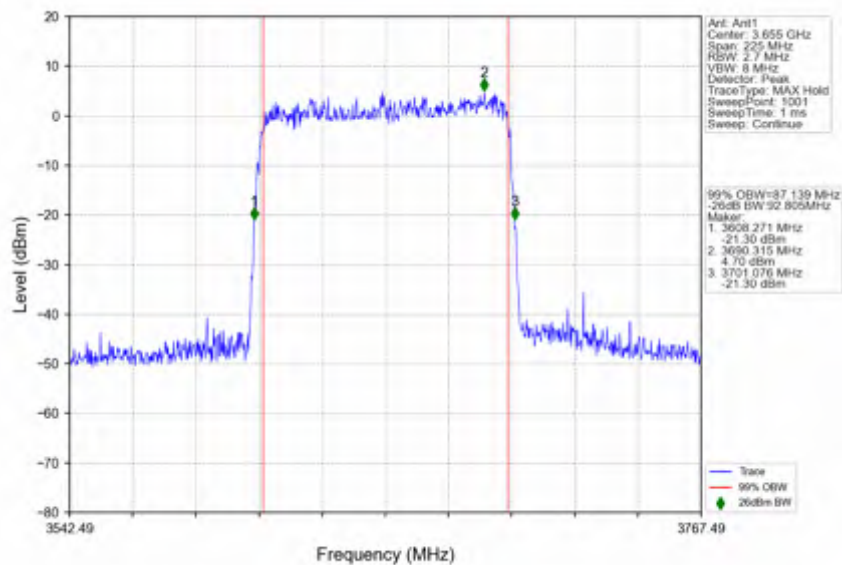
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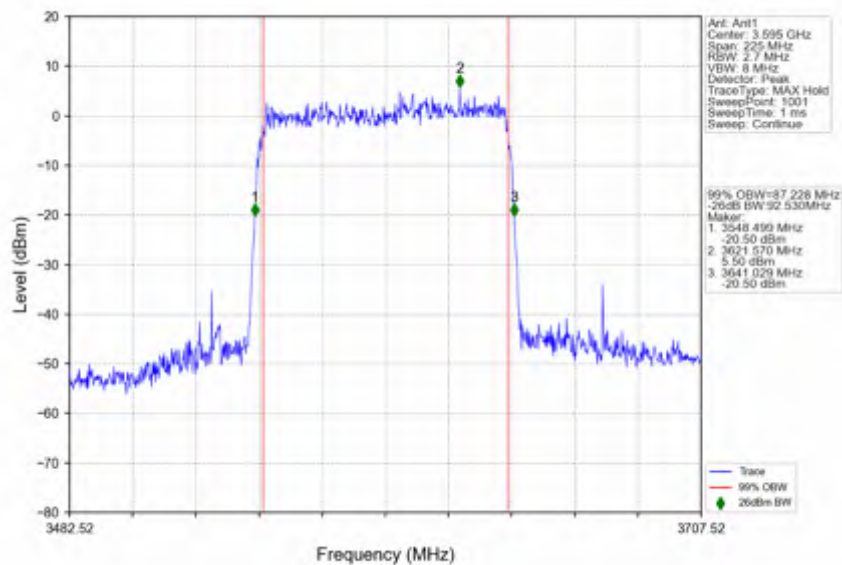
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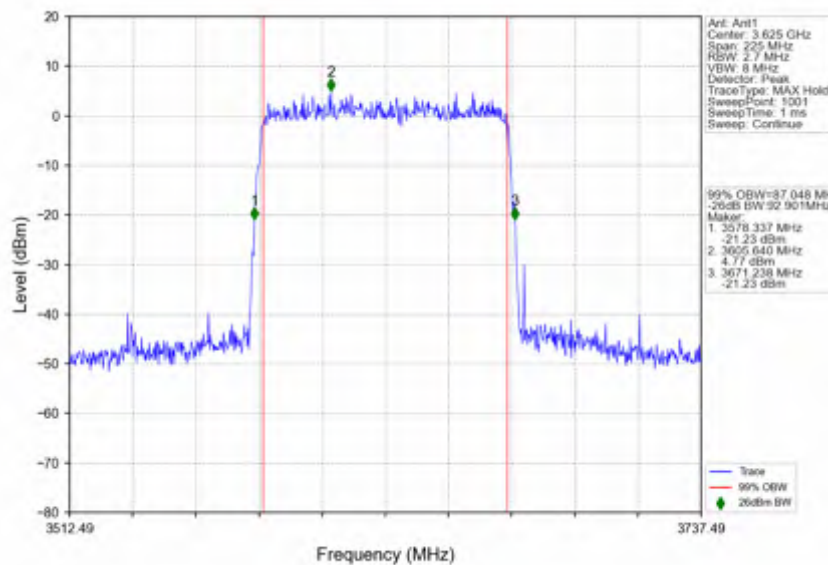
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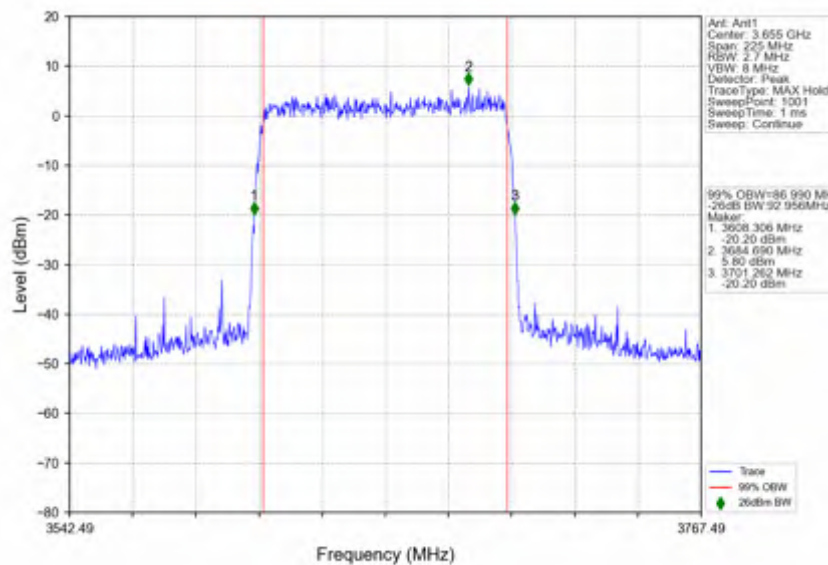
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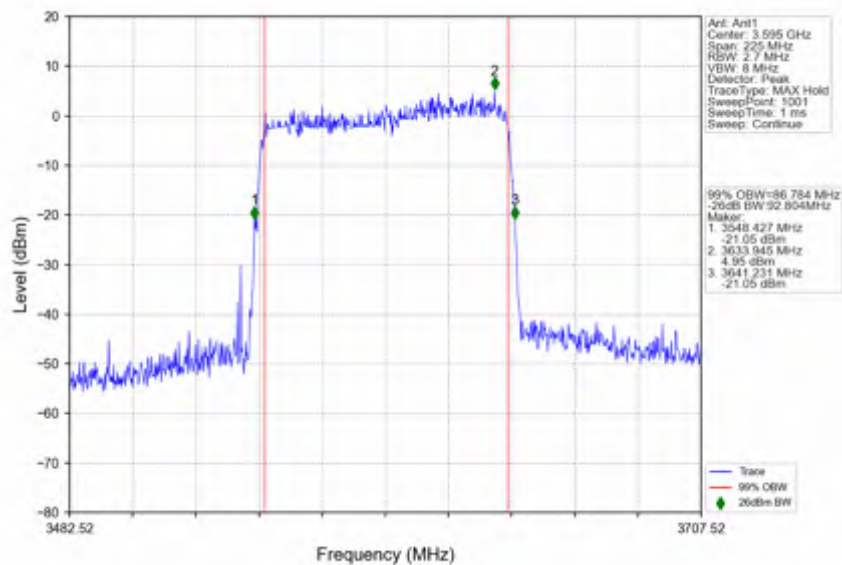
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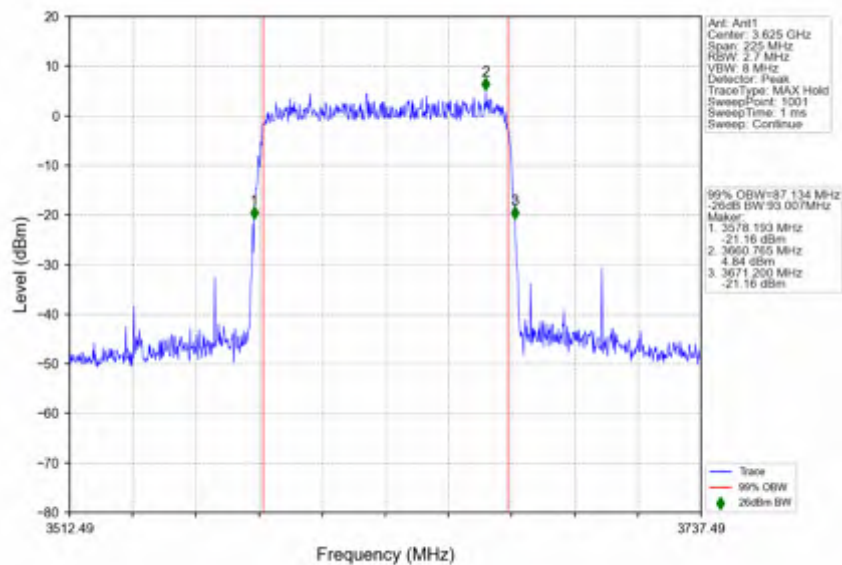
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n78d_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM_256_QAM_3595.02MHz_Outer_Full



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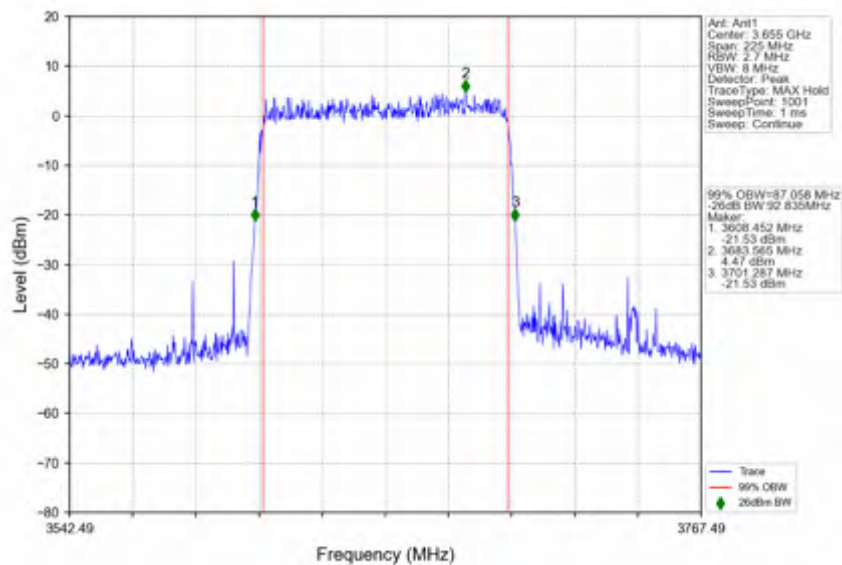
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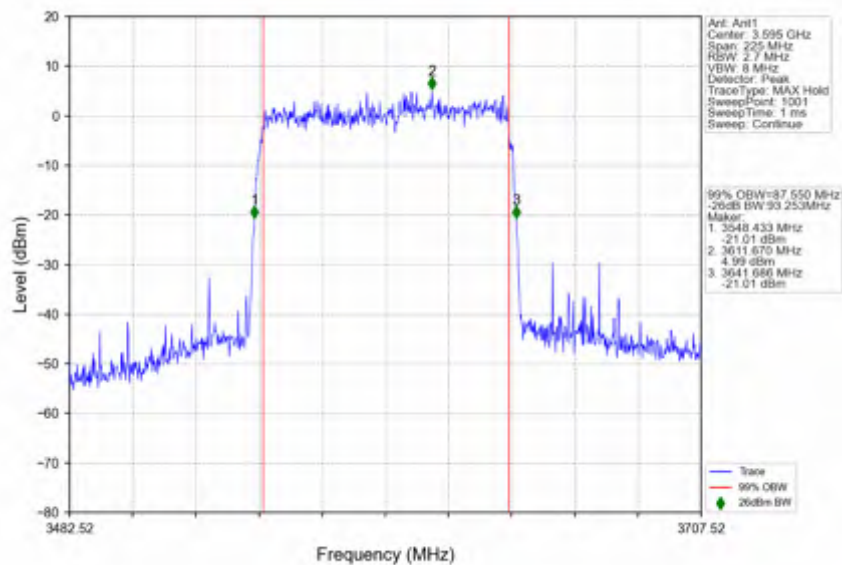
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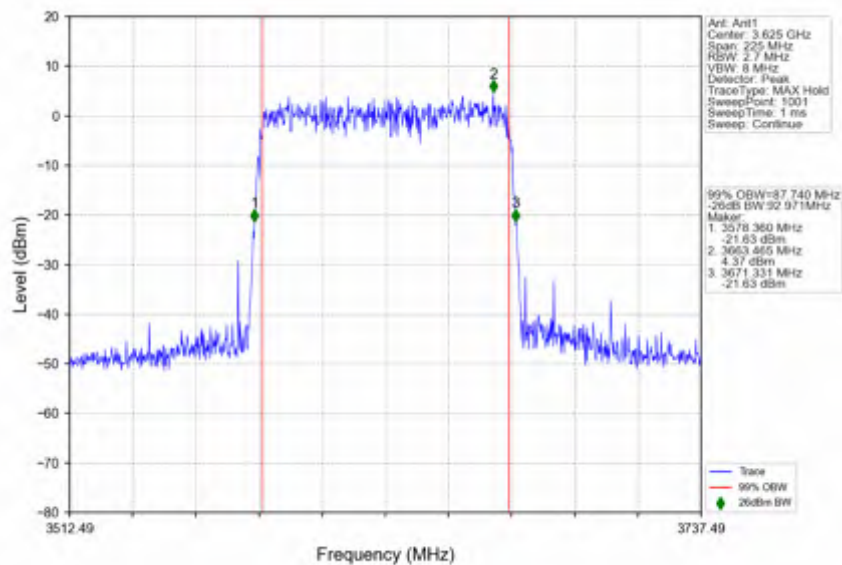


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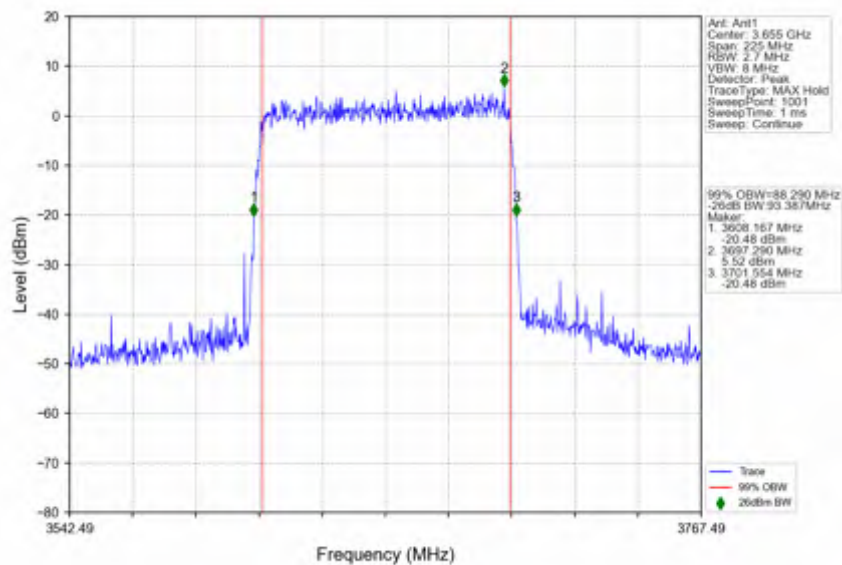
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n78d 30kHz SISO NTNv 90MHz CP-OFDM QPSK 3654.99MHz Outer Full

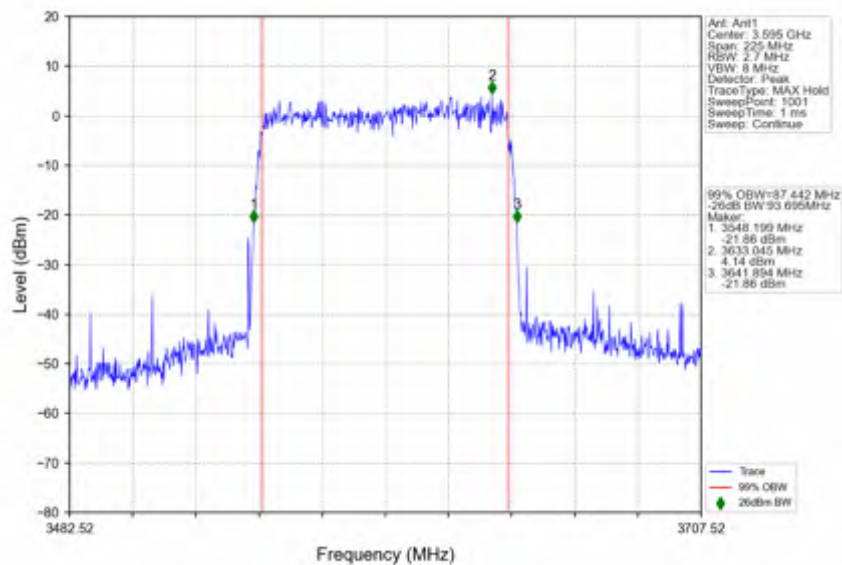


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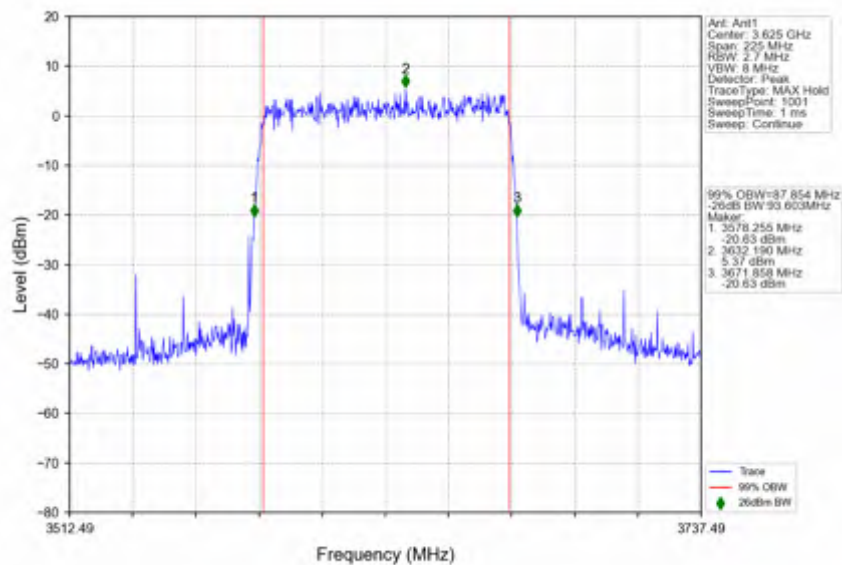
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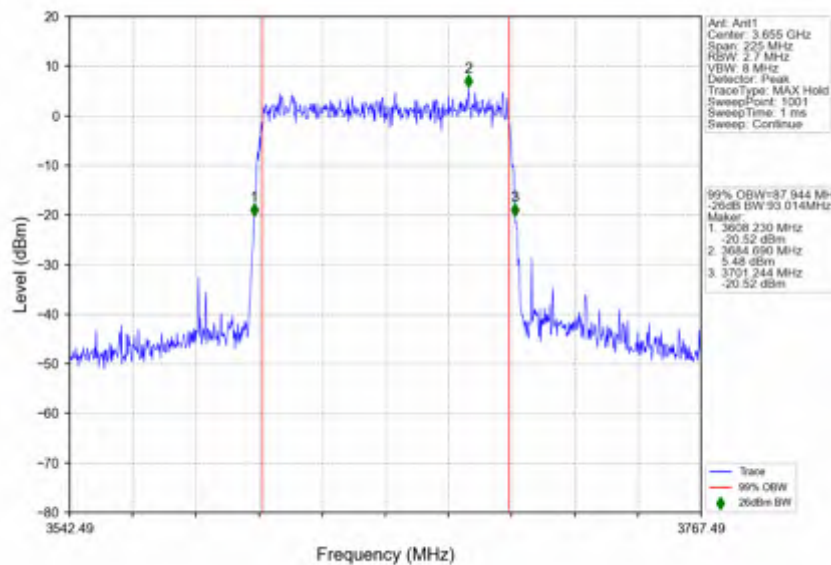


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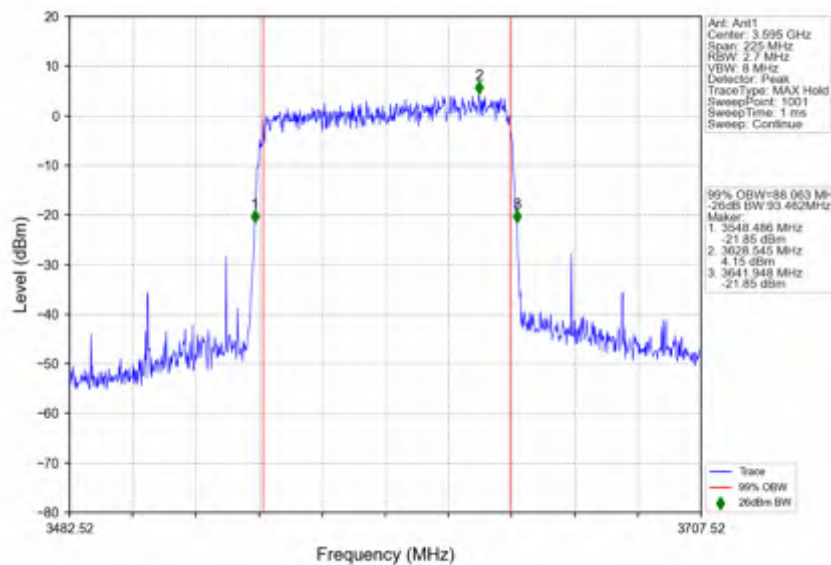
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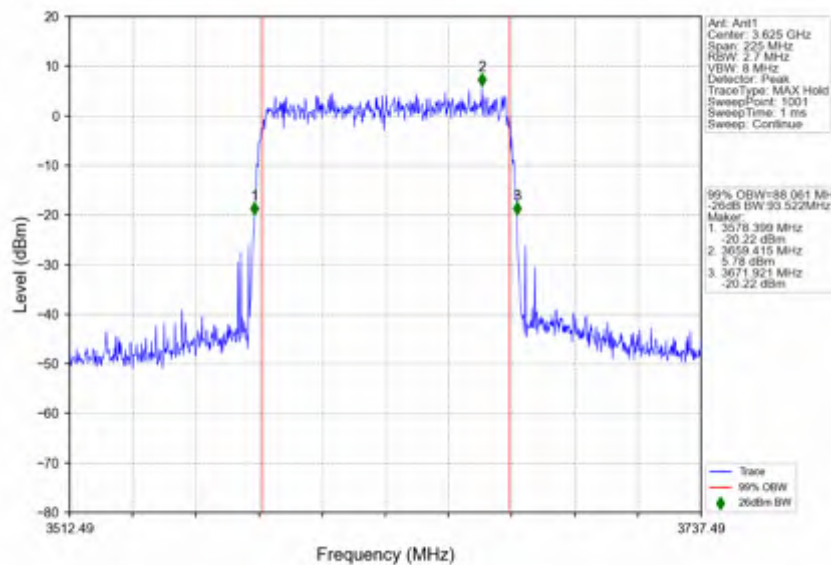


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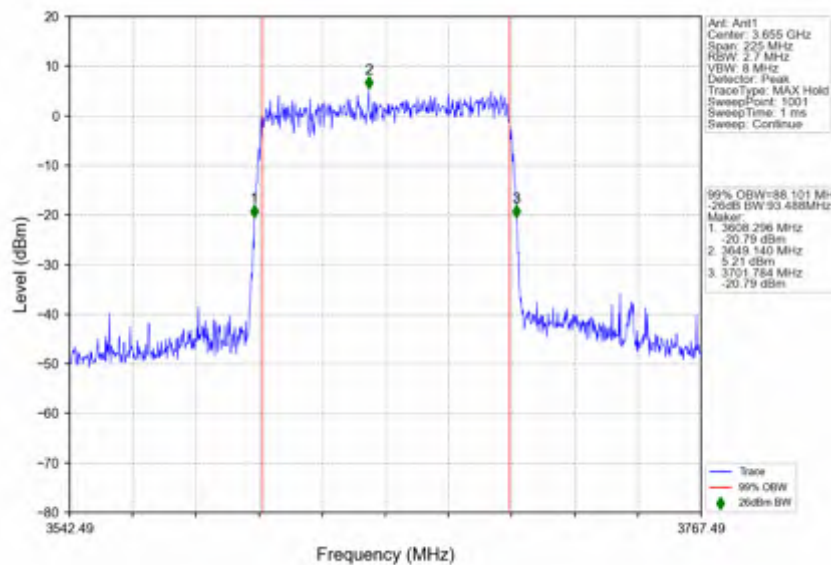
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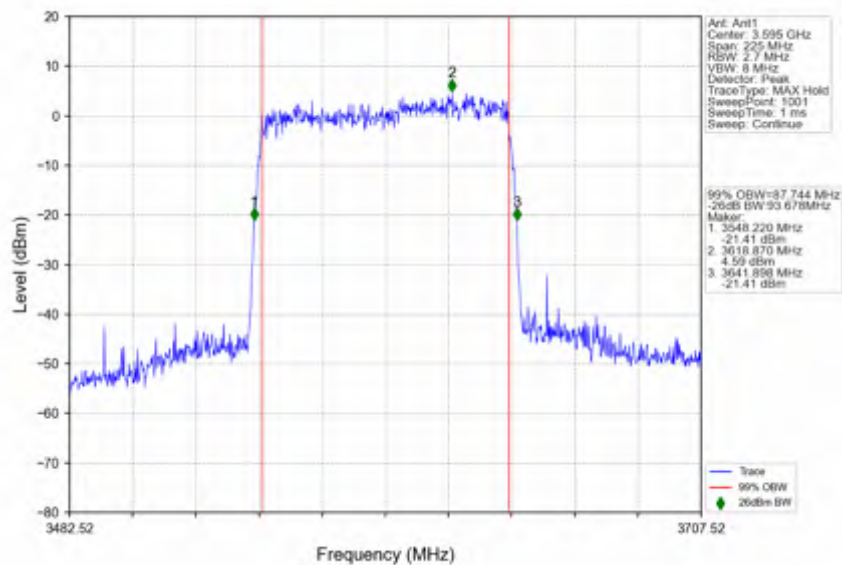
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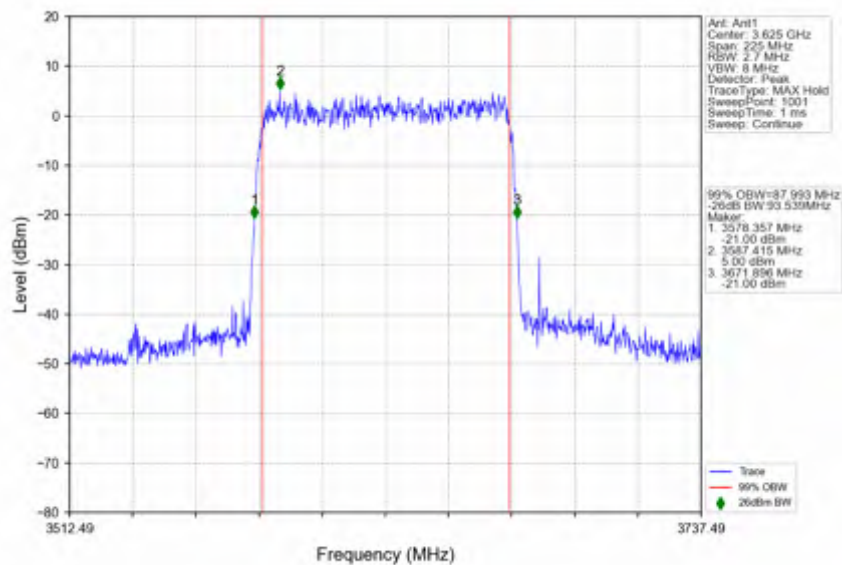
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n78d_30kHz_SISO_NTNV_90MHz_CP-OFDM_256_QAM_3595.02MHz_Outer_Full



n78d_30kHz_SISO_NTNV_90MHz_CP-OFDM_256_QAM_3624.99MHz_Outer_Full



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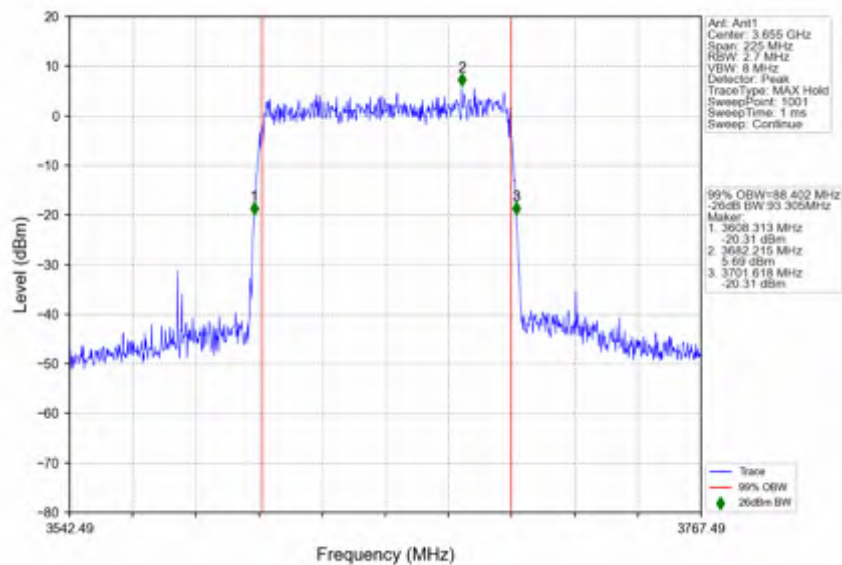
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8.19 30k_SISO_100MHz_NTNV

8.19.1 Test Result

5G NR n78d 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	3600	Outer_Full	96.56	102.58	/	Pass
	3624.99	Outer_Full	97.05	103.14	/	Pass
	3649.98	Outer_Full	96.64	102.89	/	Pass
DFT-s-OFDM QPSK	3600	Outer_Full	96.83	103.04	/	Pass
	3624.99	Outer_Full	96.64	107.20	/	Pass
	3649.98	Outer_Full	97.17	102.94	/	Pass
DFT-s-OFDM 16 QAM	3600	Outer_Full	97.00	103.35	/	Pass
	3624.99	Outer_Full	95.97	103.48	/	Pass
	3649.98	Outer_Full	96.74	103.28	/	Pass
DFT-s-OFDM 64 QAM	3600	Outer_Full	96.70	102.75	/	Pass
	3624.99	Outer_Full	96.56	103.47	/	Pass
	3649.98	Outer_Full	96.22	103.09	/	Pass
DFT-s-OFDM 256 QAM	3600	Outer_Full	96.50	102.97	/	Pass
	3624.99	Outer_Full	96.93	102.86	/	Pass
	3649.98	Outer_Full	96.76	103.20	/	Pass
CP-OFDM QPSK	3600	Outer_Full	97.35	104.53	/	Pass
	3624.99	Outer_Full	97.72	104.13	/	Pass
	3649.98	Outer_Full	97.59	103.85	/	Pass
CP-OFDM 16 QAM	3600	Outer_Full	97.70	104.05	/	Pass
	3624.99	Outer_Full	97.67	104.25	/	Pass
	3649.98	Outer_Full	97.61	104.19	/	Pass
CP-OFDM 64 QAM	3600	Outer_Full	97.98	104.13	/	Pass
	3624.99	Outer_Full	97.43	104.44	/	Pass
	3649.98	Outer_Full	97.89	104.26	/	Pass
CP-OFDM 256 QAM	3600	Outer_Full	98.05	104.06	/	Pass
	3624.99	Outer_Full	97.47	103.97	/	Pass
	3649.98	Outer_Full	97.61	104.08	/	Pass



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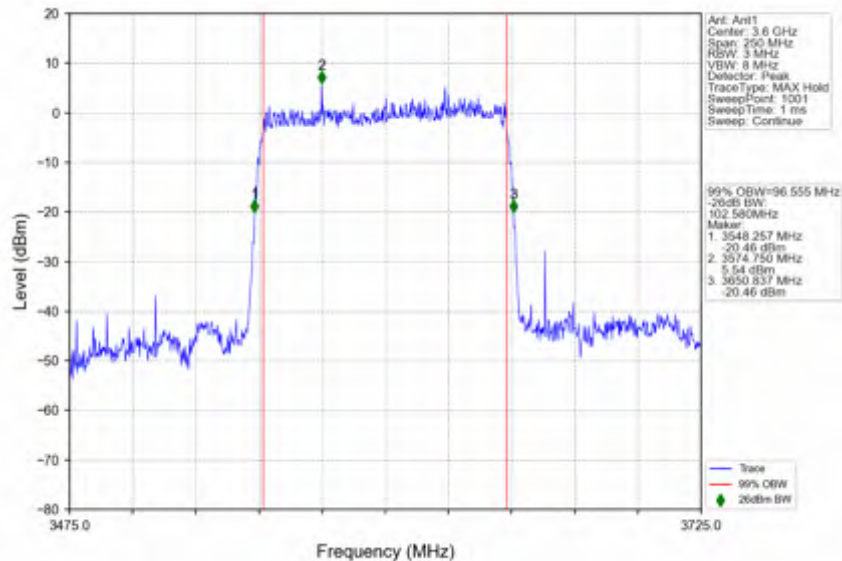
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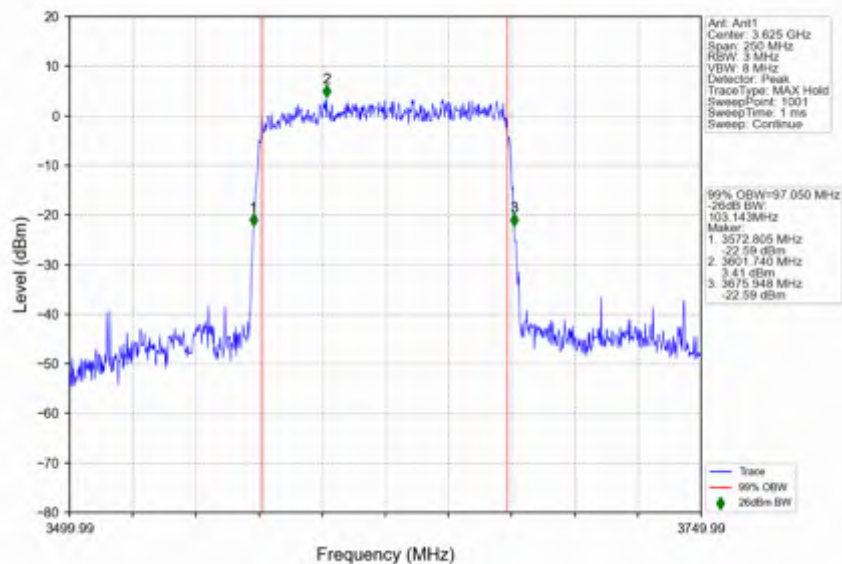
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8.19.2 Test Graph

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n78d_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM_PI/2_BPSK_3624.99MHz_Outer_Full



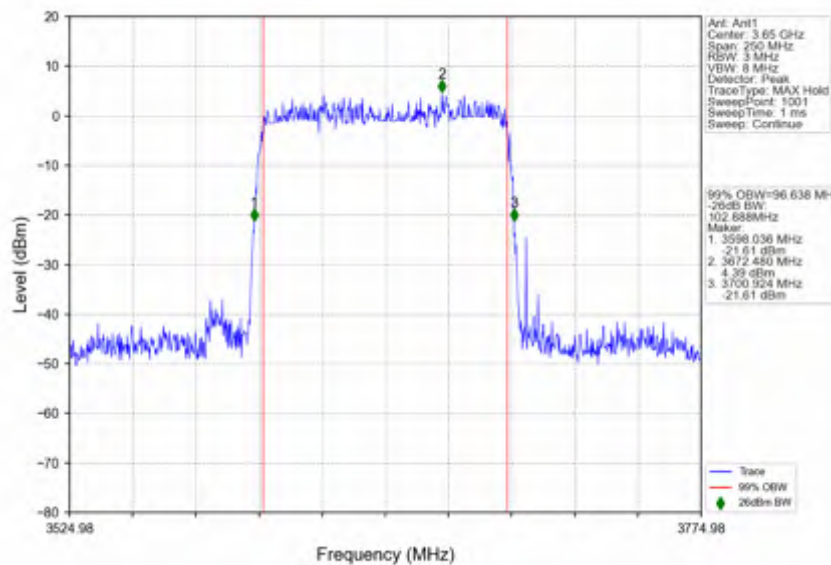
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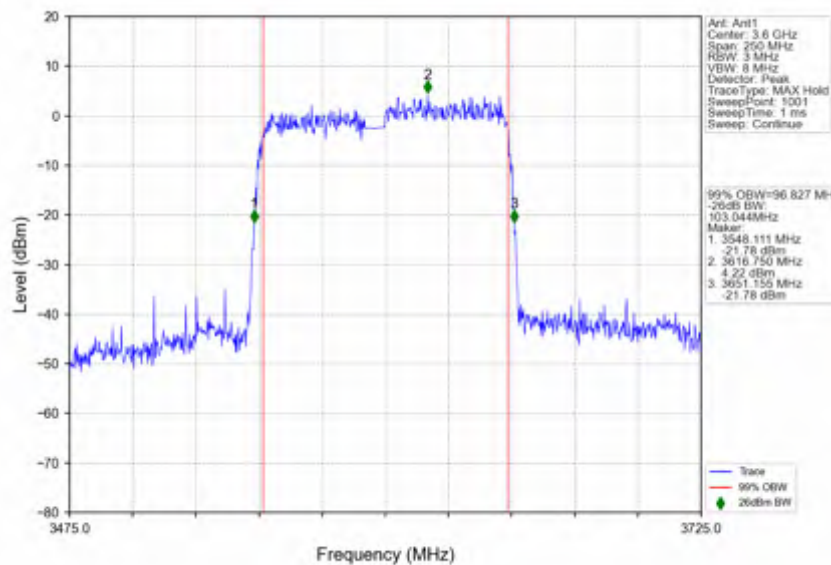
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n78d_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM PI/2 BPSK_3649.98MHz_Outer_Full



n78d_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM QPSK_3600MHz_Outer_Full



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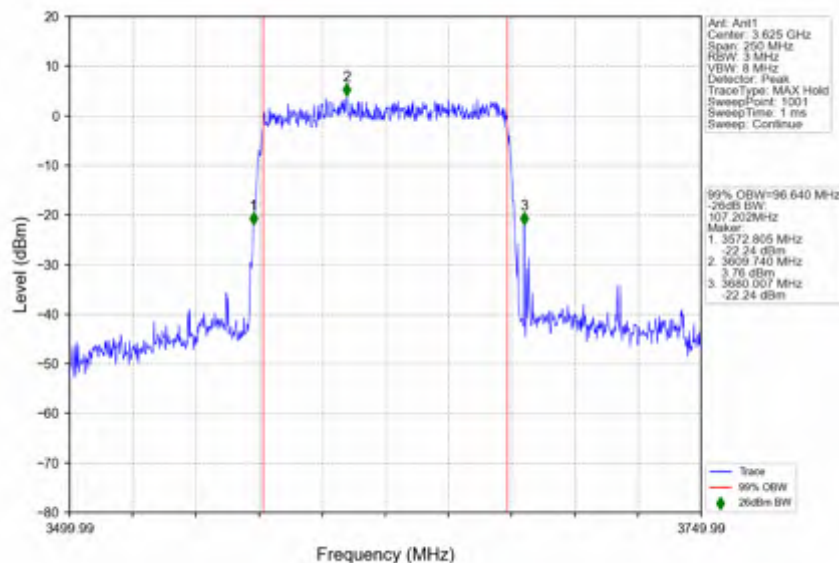
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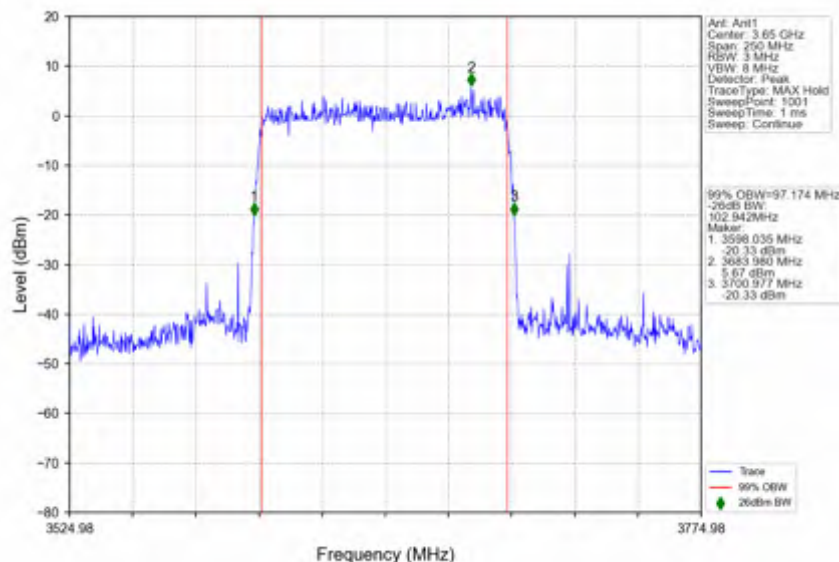
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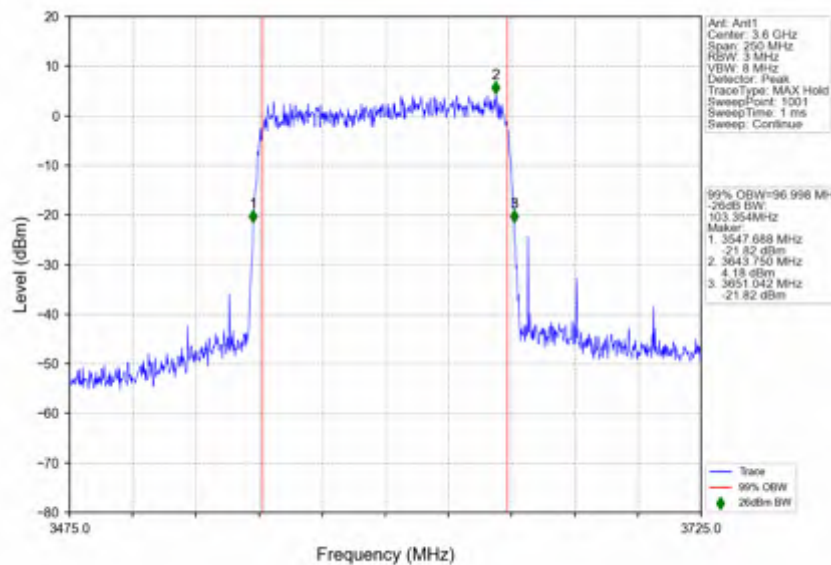
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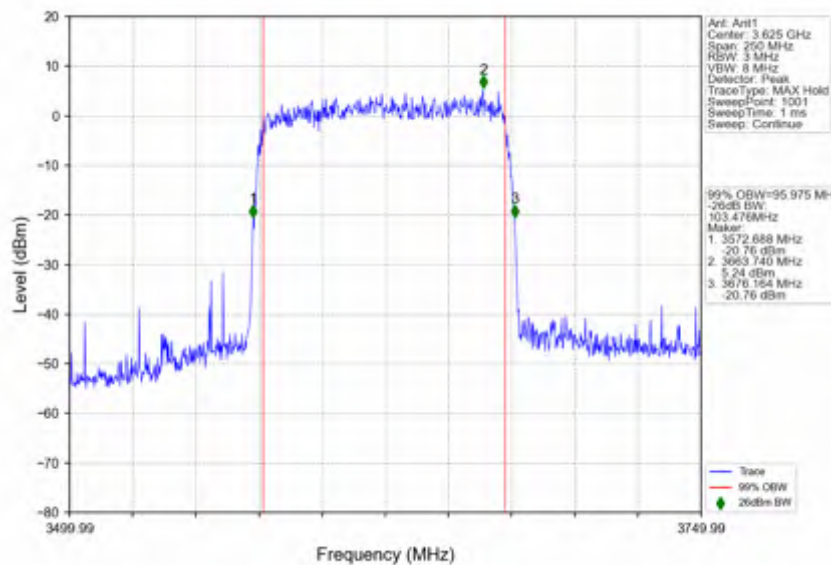
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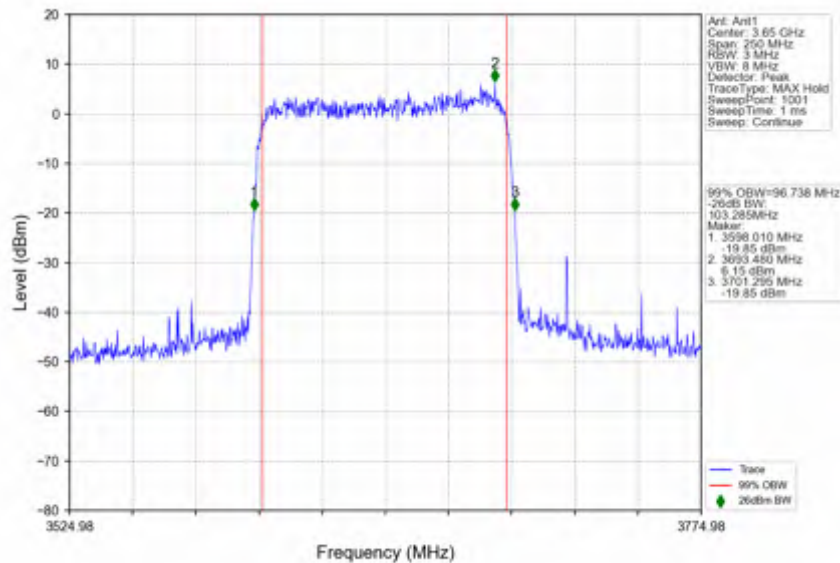
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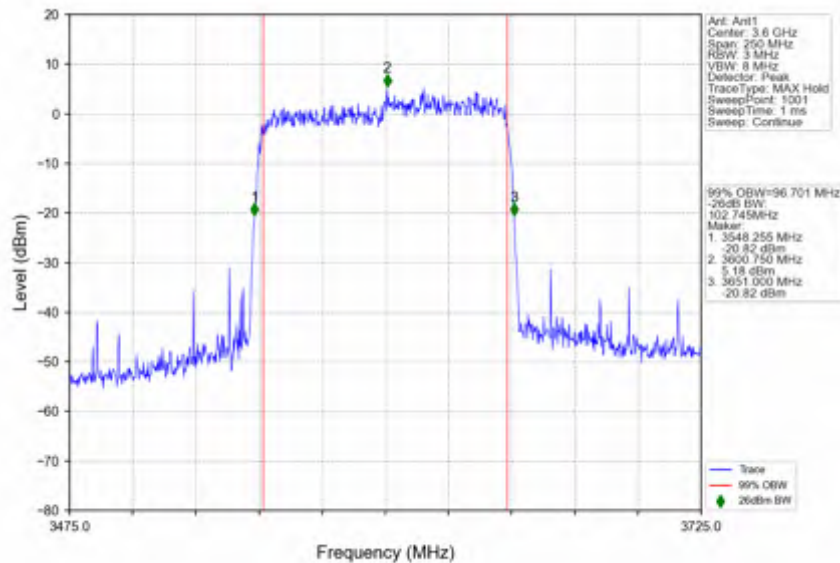
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n78d_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM 64 QAM_3600MHz_Outer_Full



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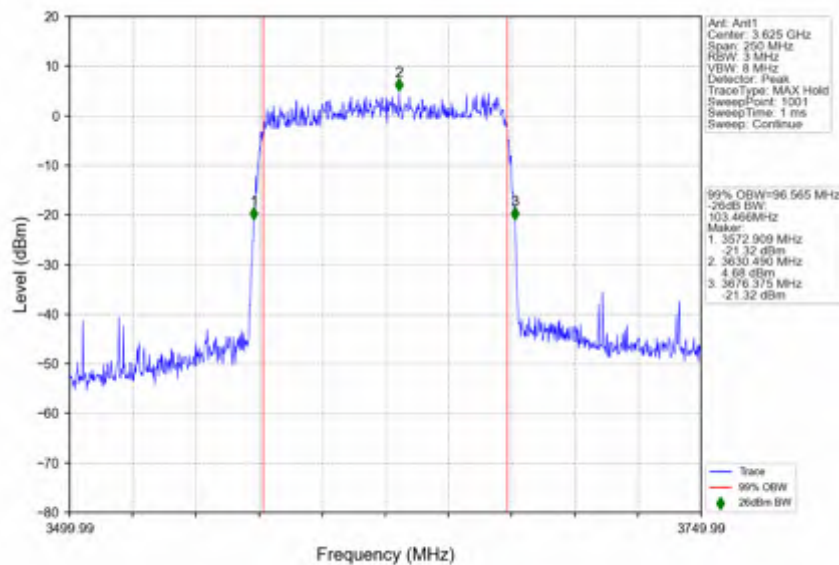
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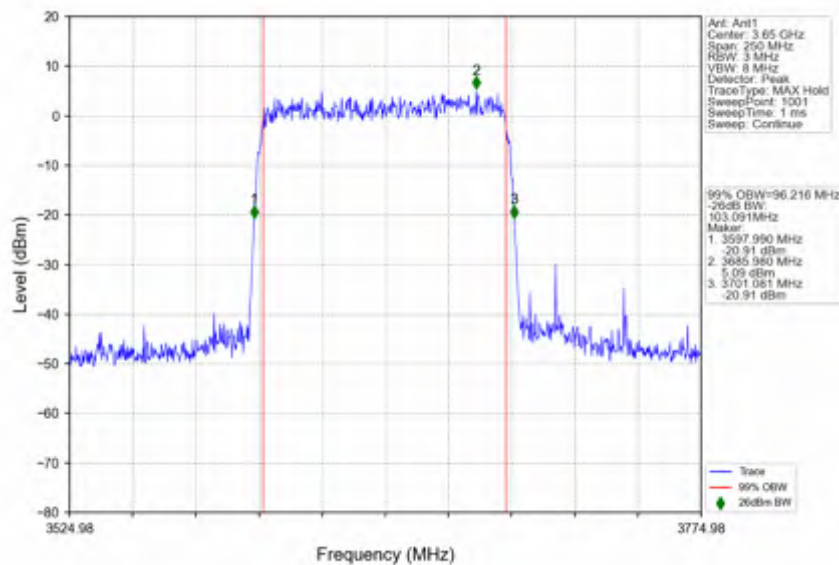
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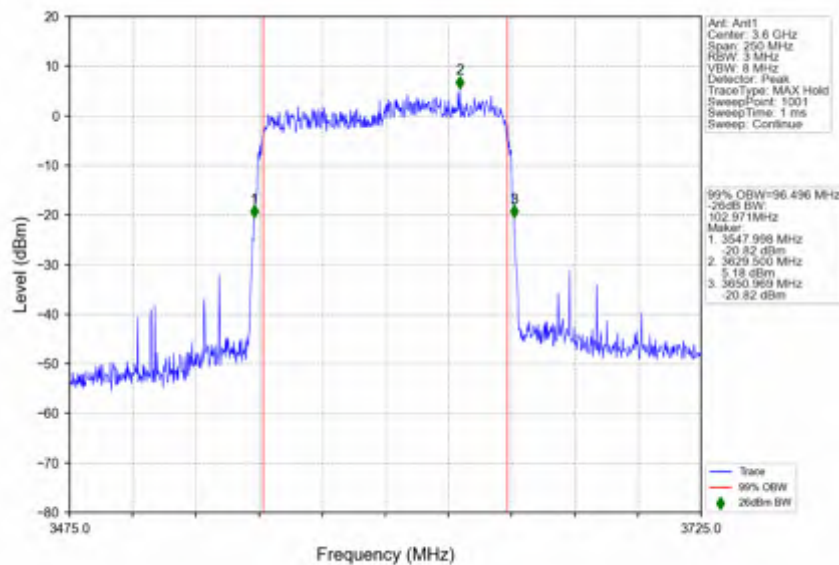
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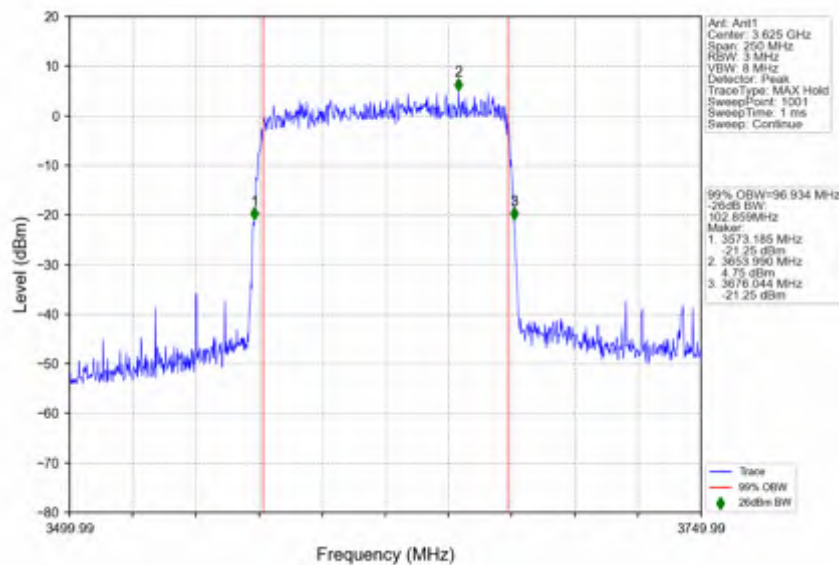
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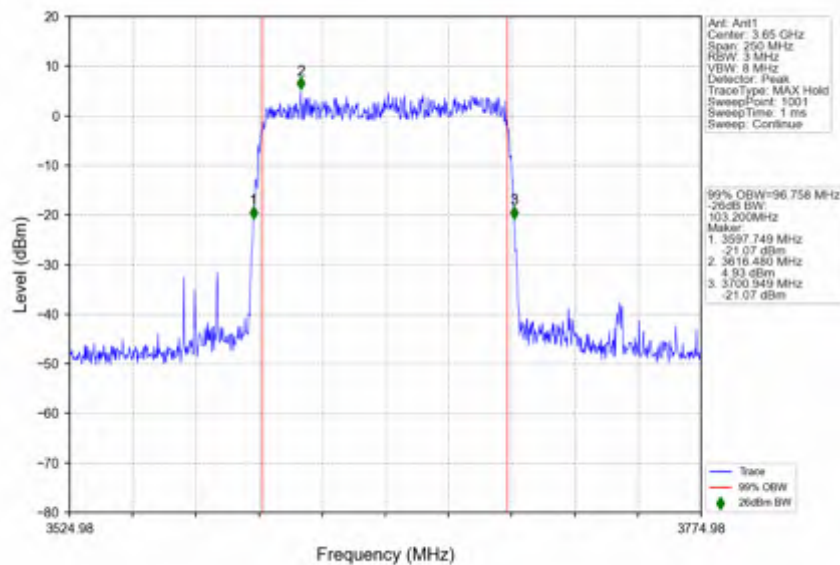


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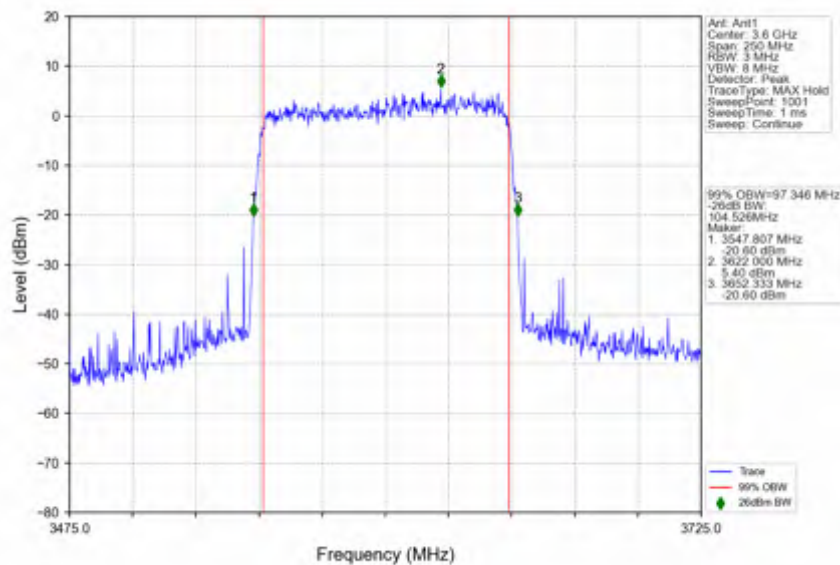
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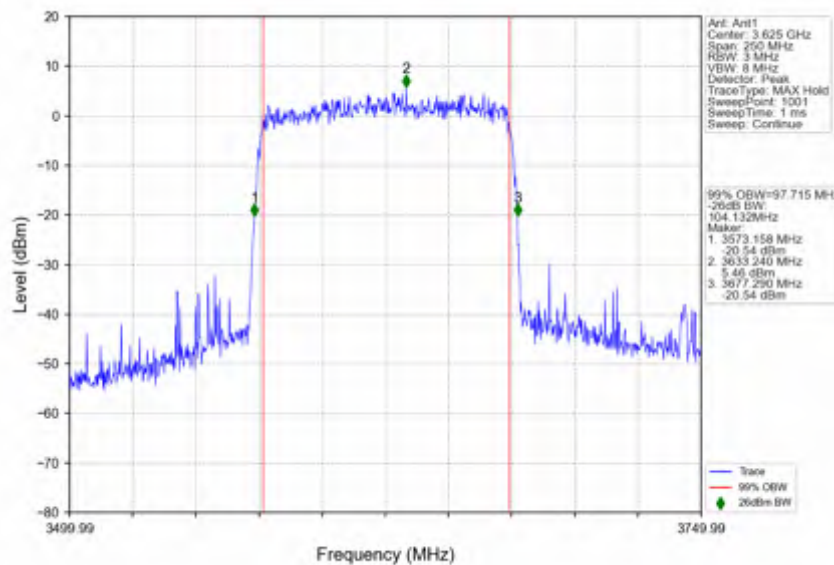
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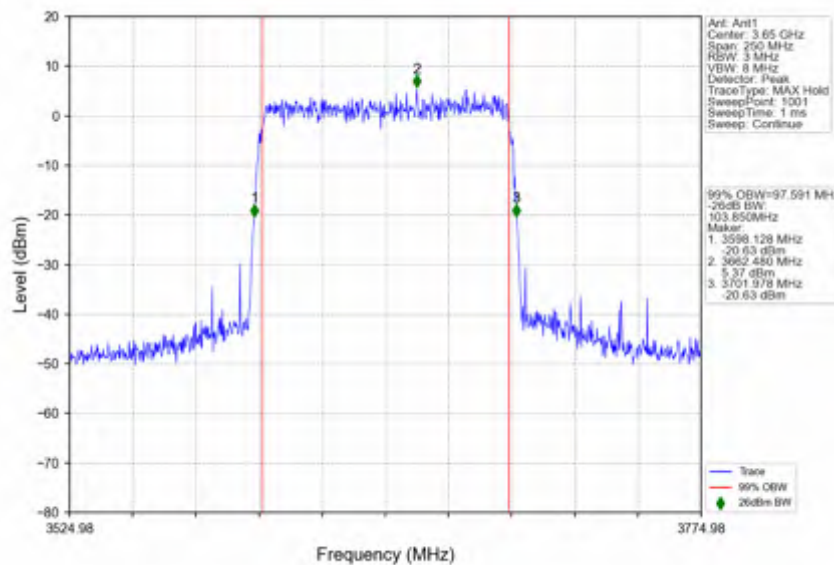
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n78d_30kHz_SISO_NTNV_100MHz_CP-OFDM QPSK_3624.99MHz_Outer_Full



n78d_30kHz_SISO_NTNV_100MHz_CP-OFDM QPSK_3649.98MHz_Outer_Full



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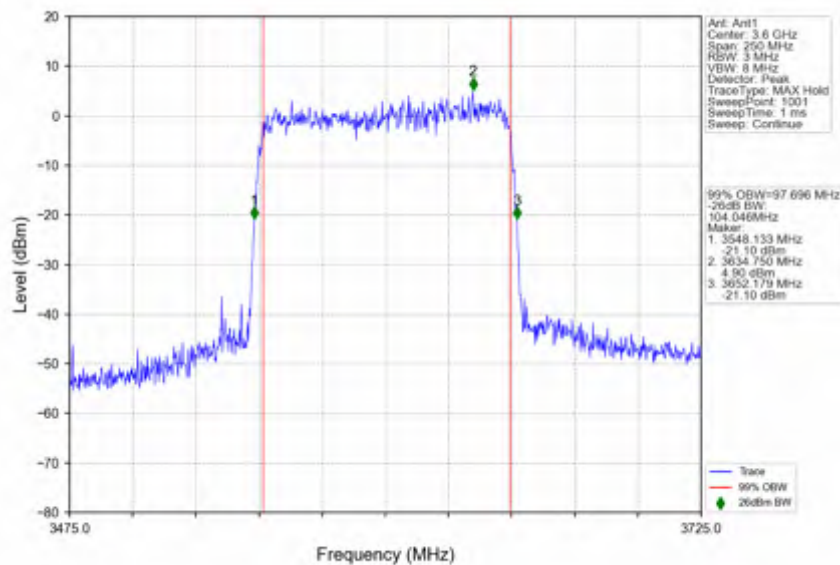
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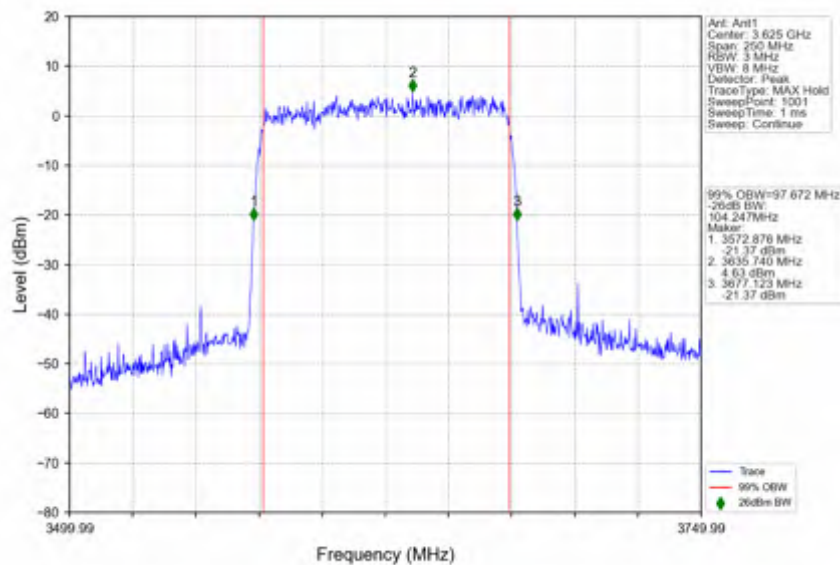
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n78d_30kHz_SISO_NTNV_100MHz_CP-OFDM_16_QAM_3600MHz_Outer_Full



n78d_30kHz_SISO_NTNV_100MHz_CP-OFDM_16_QAM_3624.99MHz_Outer_Full

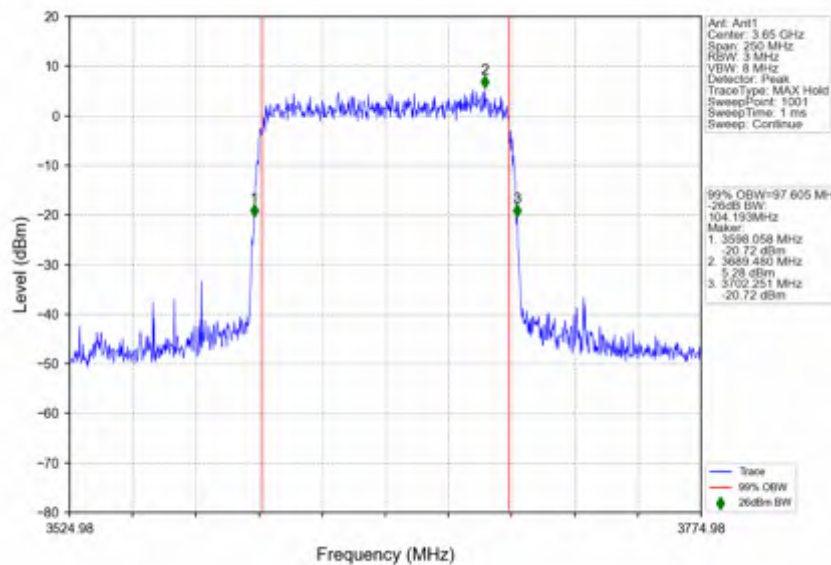


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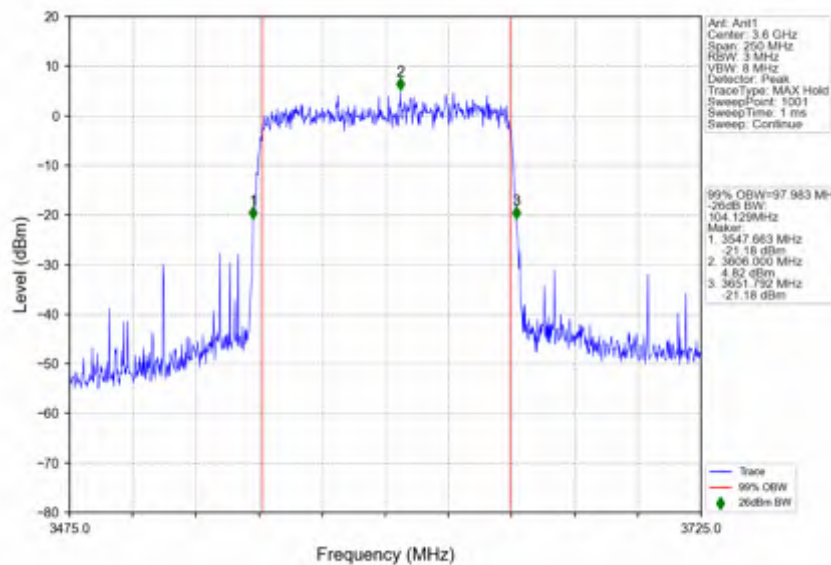
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n78d_30kHz_SISO_NTNV_100MHz_CP-OFDM 16 QAM_3649.98MHz_Outer_Full



n78d_30kHz_SISO_NTNV_100MHz_CP-OFDM 64 QAM_3600MHz_Outer_Full



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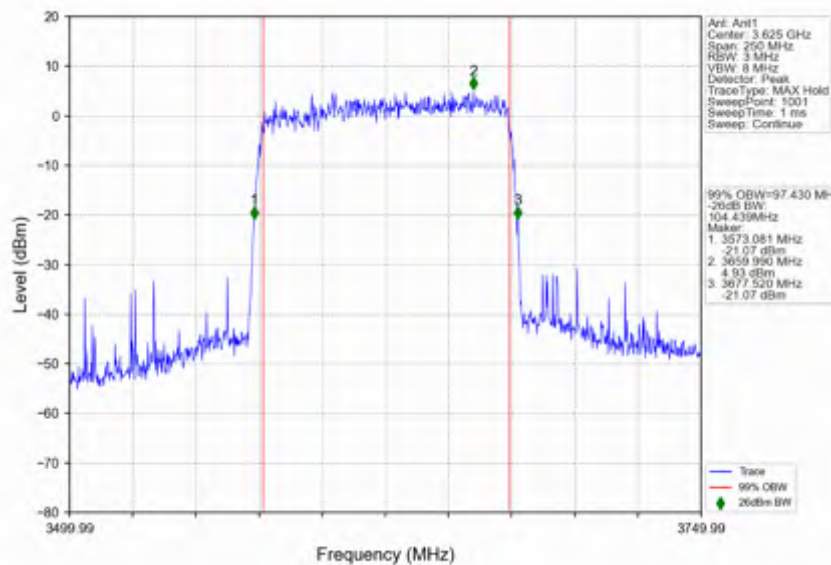
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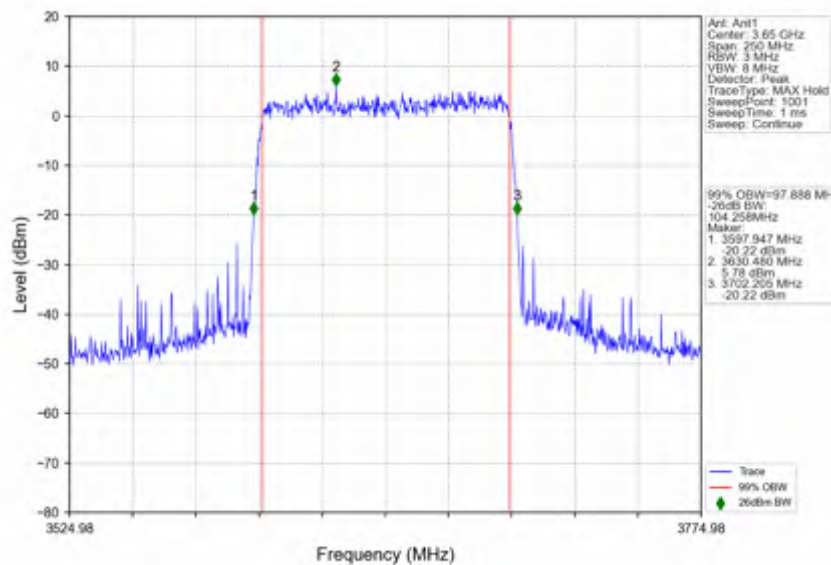
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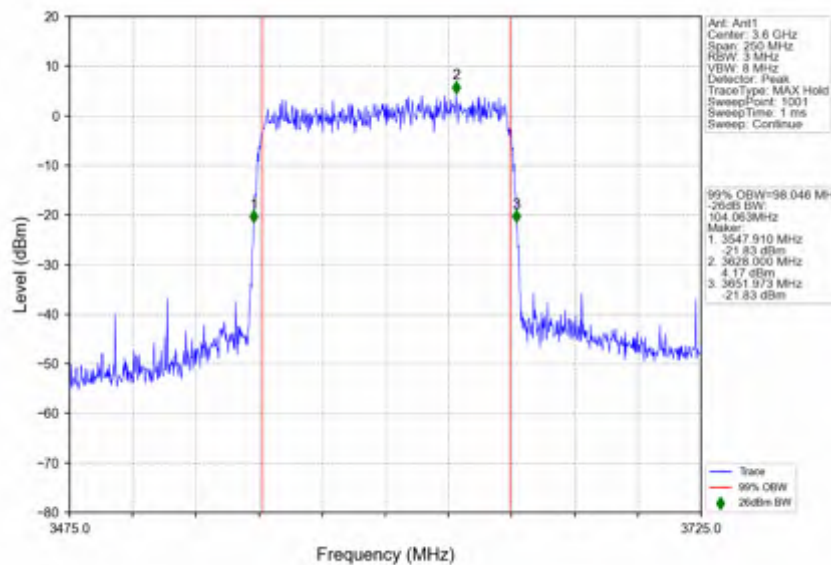
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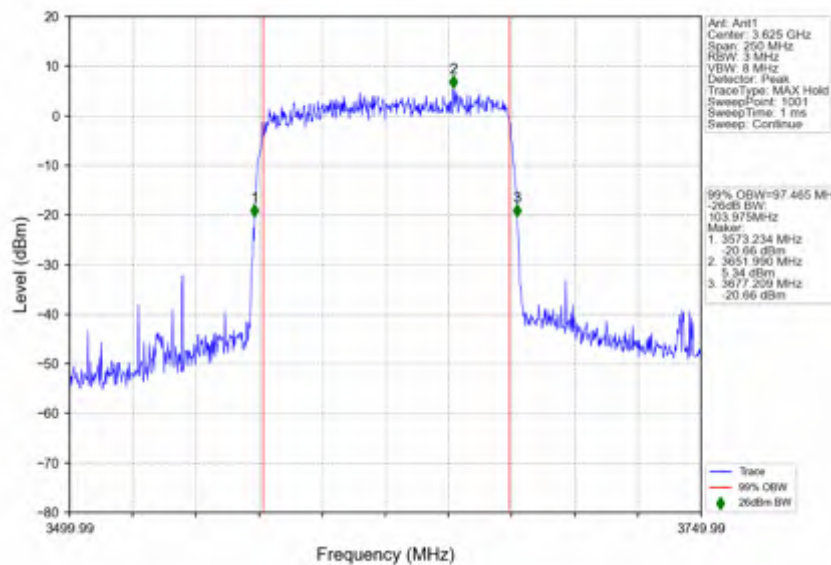
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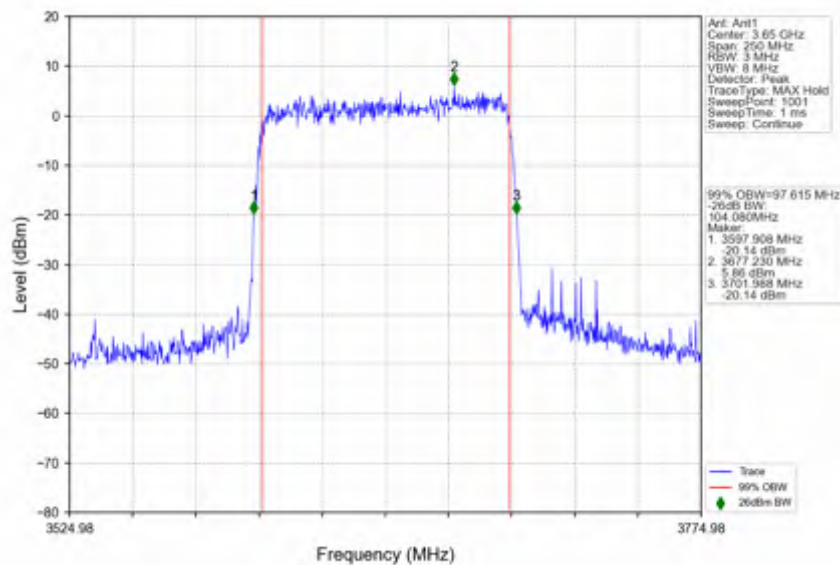
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n78d_30kHz_SISO_NTNV_100MHz_CP-OFDM 256 QAM 3649.98MHz_Outer_Full



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9. 99% & 26dB Bandwidth

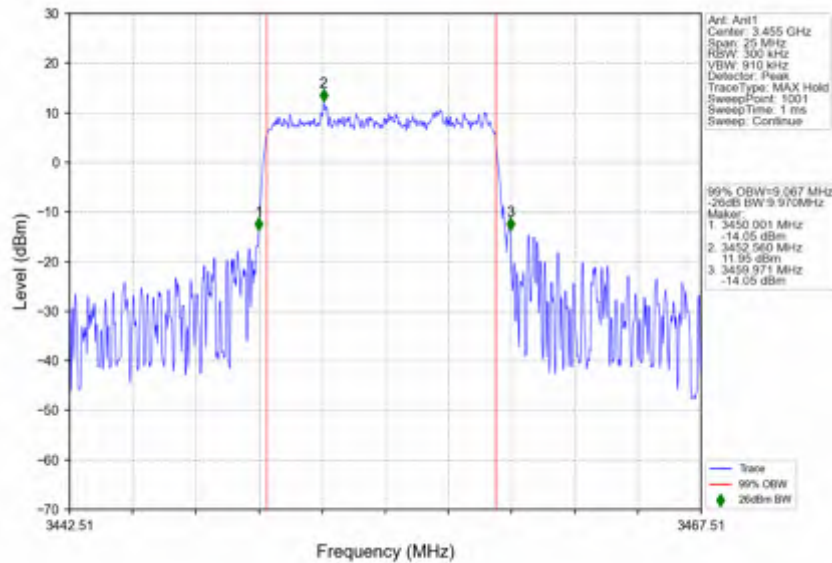
9.1 n78e 15k_SISO_10MHz_NTNV

9.1.1 Test Result

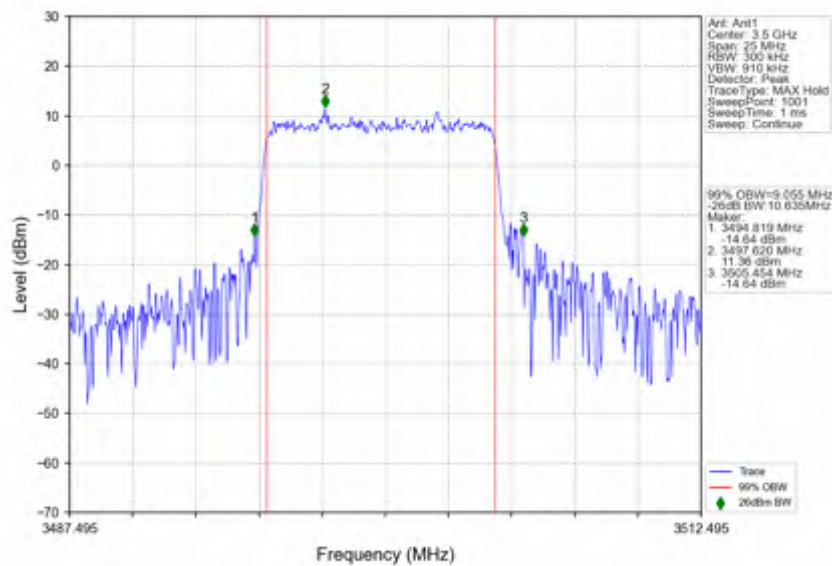
5G NR n78e SCS=15kHz SISO 10MHz NTV						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3455.01	Outer_Full	9.07	9.97	/	Pass
	3499.995	Outer_Full	9.05	10.63	/	Pass
	3544.995	Outer_Full	9.06	10.76	/	Pass
DFT-s-OFDM QPSK	3455.01	Outer_Full	9.07	11.14	/	Pass
	3499.995	Outer_Full	9.09	10.48	/	Pass
	3544.995	Outer_Full	9.06	11.24	/	Pass
DFT-s-OFDM 16 QAM	3455.01	Outer_Full	9.05	10.30	/	Pass
	3499.995	Outer_Full	9.08	10.07	/	Pass
	3544.995	Outer_Full	9.03	10.10	/	Pass
DFT-s-OFDM 64 QAM	3455.01	Outer_Full	9.08	10.30	/	Pass
	3499.995	Outer_Full	9.07	10.58	/	Pass
	3544.995	Outer_Full	9.06	10.23	/	Pass
DFT-s-OFDM 256 QAM	3455.01	Outer_Full	9.07	10.47	/	Pass
	3499.995	Outer_Full	9.04	10.54	/	Pass
	3544.995	Outer_Full	9.04	10.68	/	Pass
CP-OFDM QPSK	3455.01	Outer_Full	9.37	10.10	/	Pass
	3499.995	Outer_Full	9.37	10.19	/	Pass
	3544.995	Outer_Full	9.39	10.15	/	Pass
CP-OFDM 16 QAM	3455.01	Outer_Full	9.39	11.48	/	Pass
	3499.995	Outer_Full	9.41	11.49	/	Pass
	3544.995	Outer_Full	9.39	11.06	/	Pass
CP-OFDM 64 QAM	3455.01	Outer_Full	9.40	11.03	/	Pass
	3499.995	Outer_Full	9.38	11.64	/	Pass
	3544.995	Outer_Full	9.40	10.85	/	Pass
CP-OFDM 256 QAM	3455.01	Outer_Full	9.38	11.06	/	Pass
	3499.995	Outer_Full	9.38	11.10	/	Pass
	3544.995	Outer_Full	9.39	11.06	/	Pass

9.1.2 Test Graph

n78e_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_3455.01MHz_Outer_Full



n78e_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_3499.995MHz_Outer_Full



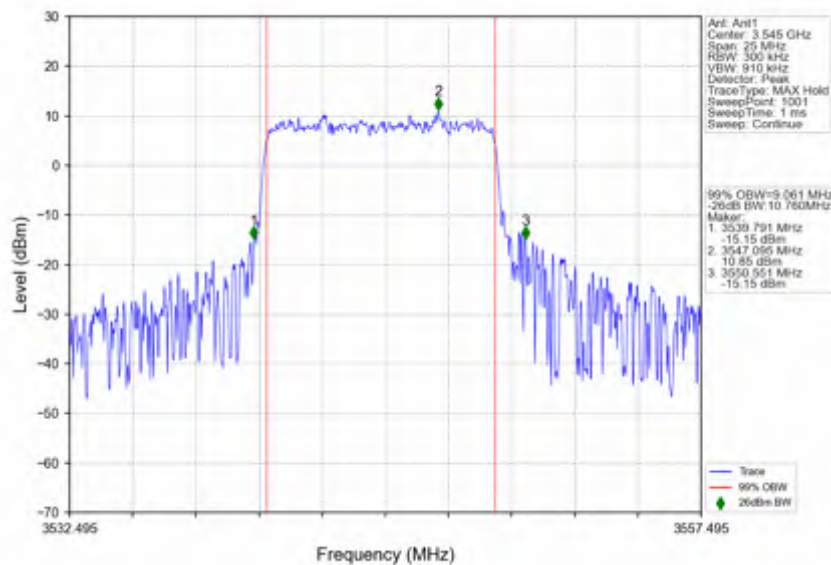
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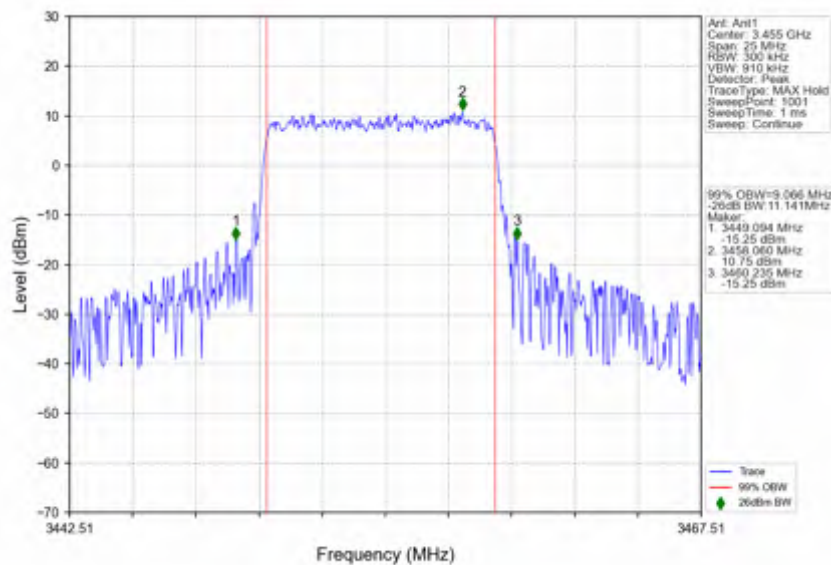
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n78e_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_PI/2_BPSK_3544.995MHz_Outer_Full



n78e	15kHz	SISO	NTNV	10MHz	DFT-s-OFDM	QPSK	3455.01MHz	Outer	Full
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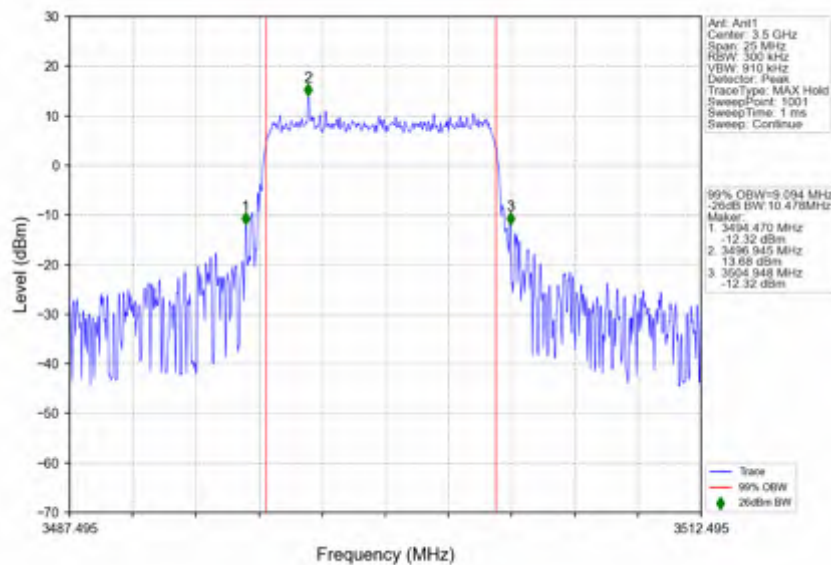


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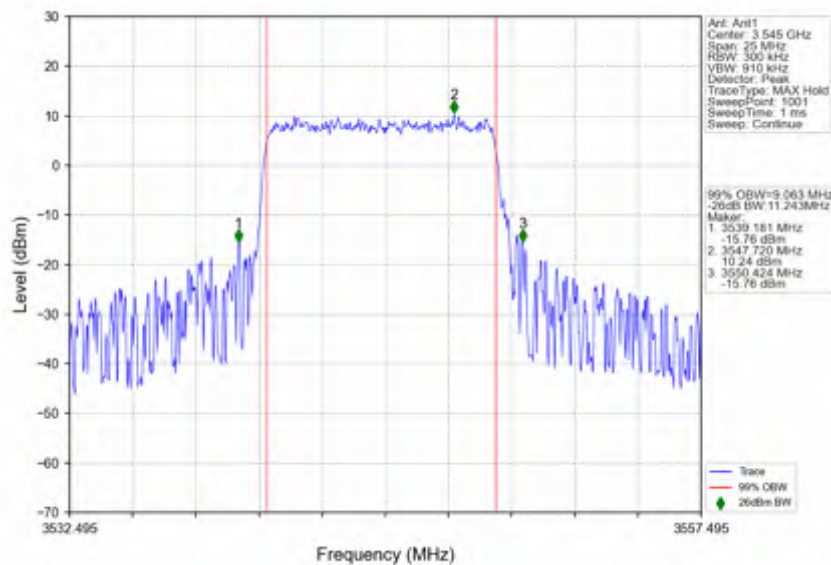
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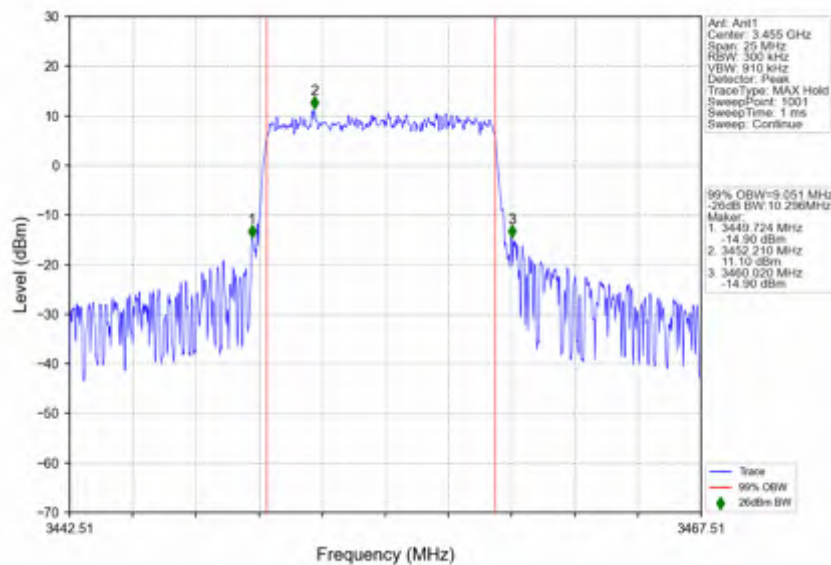


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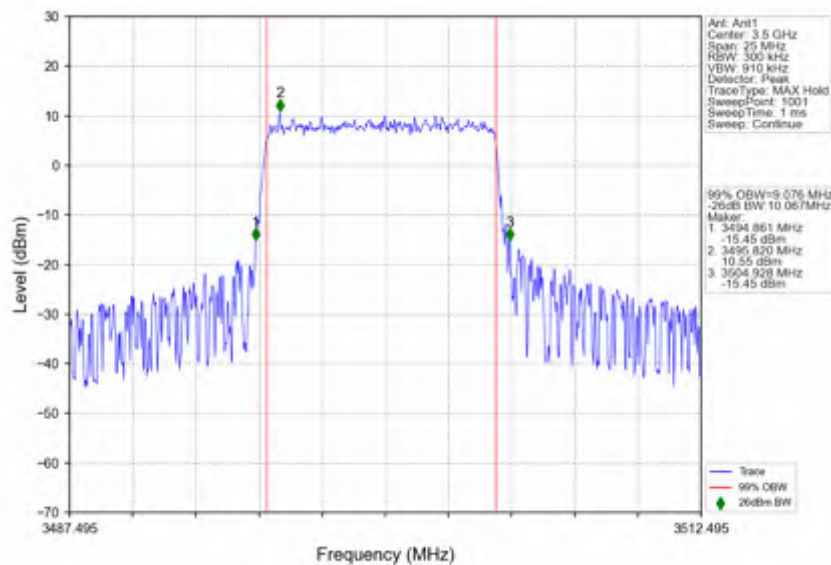
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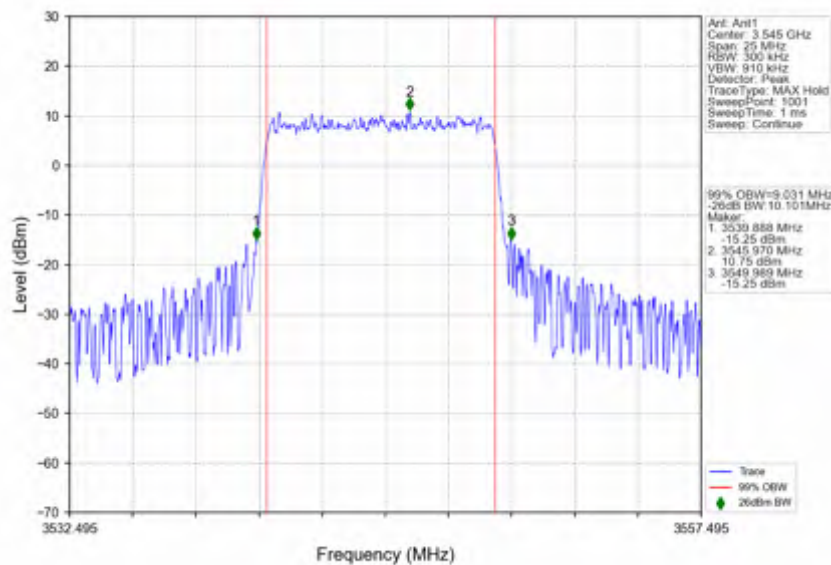


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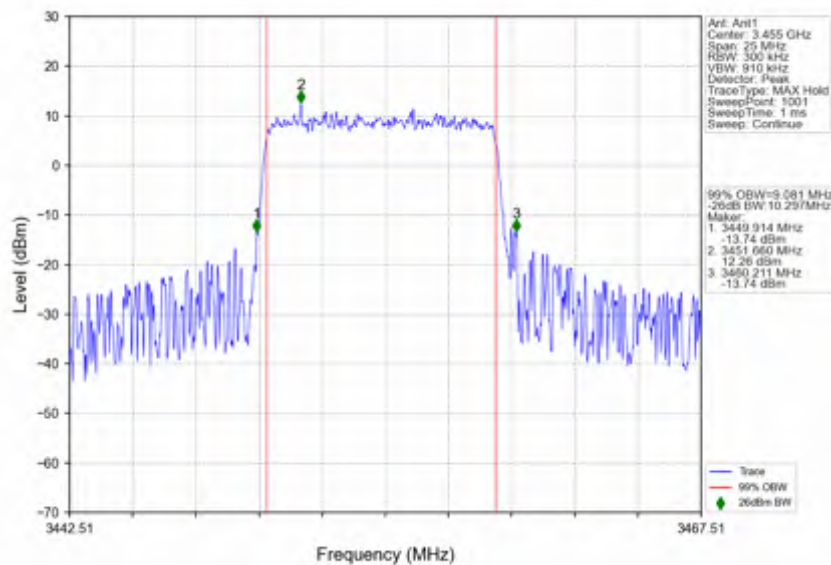
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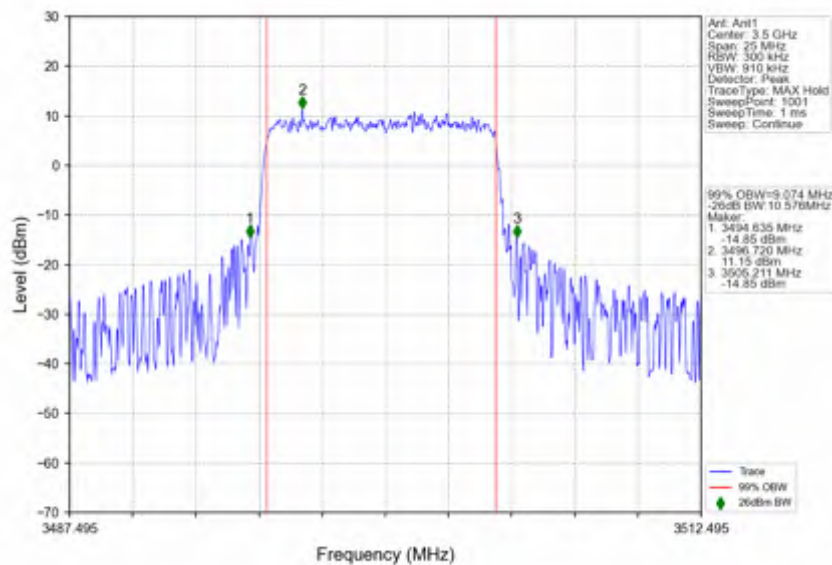


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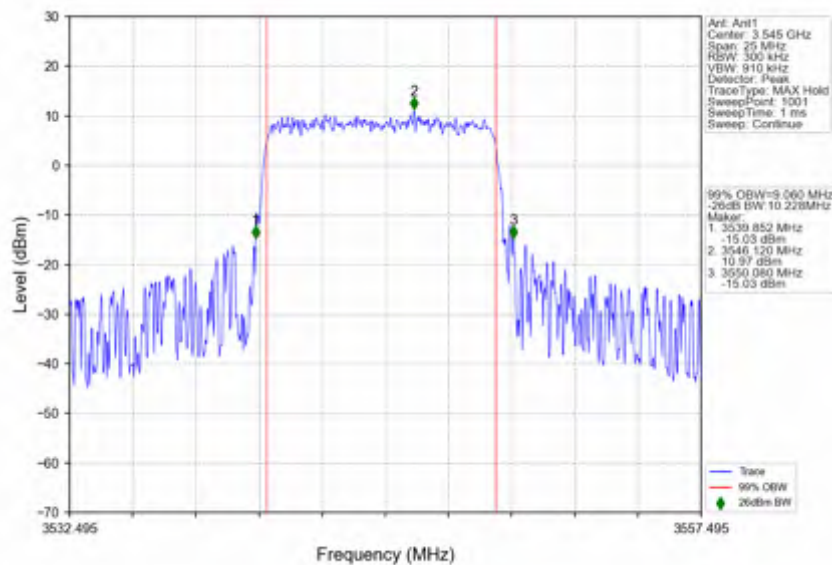
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n78e_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 64 QAM_3499.995MHz_Outer_Full



n78e_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 64 QAM_3544.995MHz_Outer_Full



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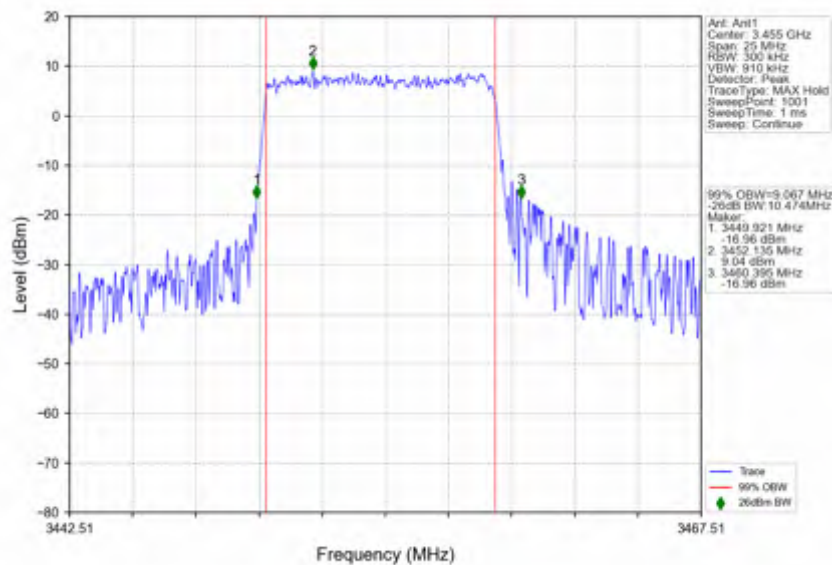
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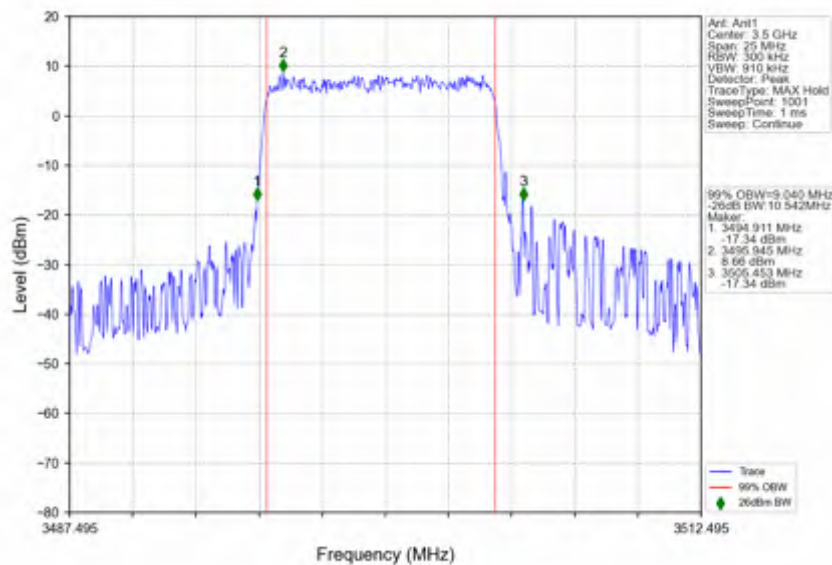
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n78e_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_256_QAM_3455.01MHz_Outer_Full



n78e_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_256_QAM_3499.995MHz_Outer_Full



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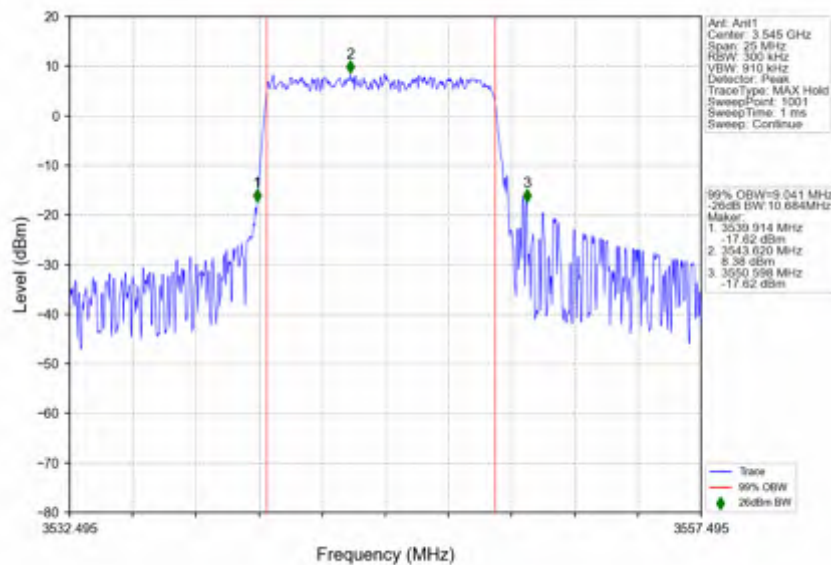
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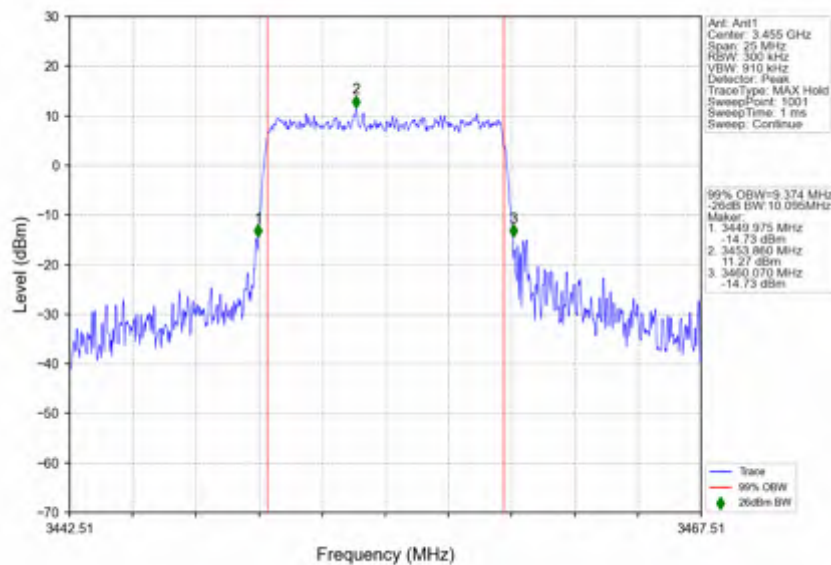
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n78e_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 256 QAM_3544.995MHz_Outer_Full



n78e_15kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_3455.01MHz_Outer_Full



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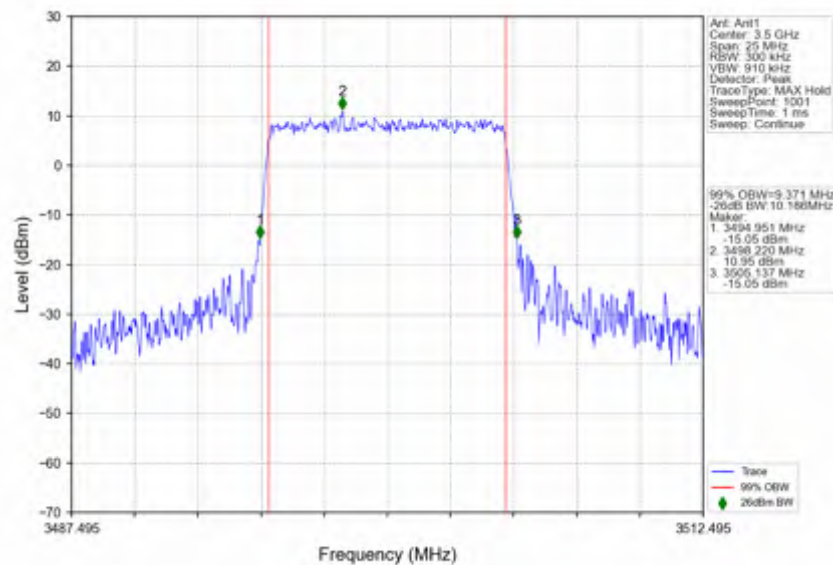
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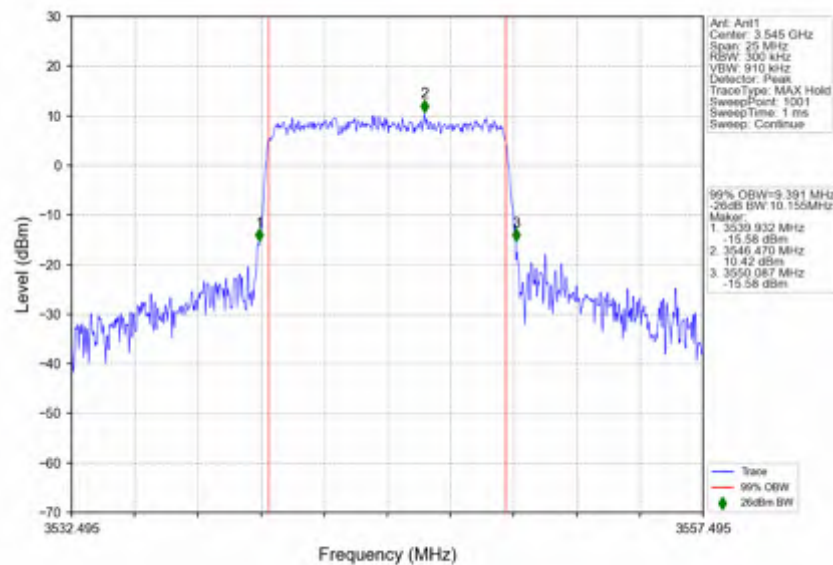
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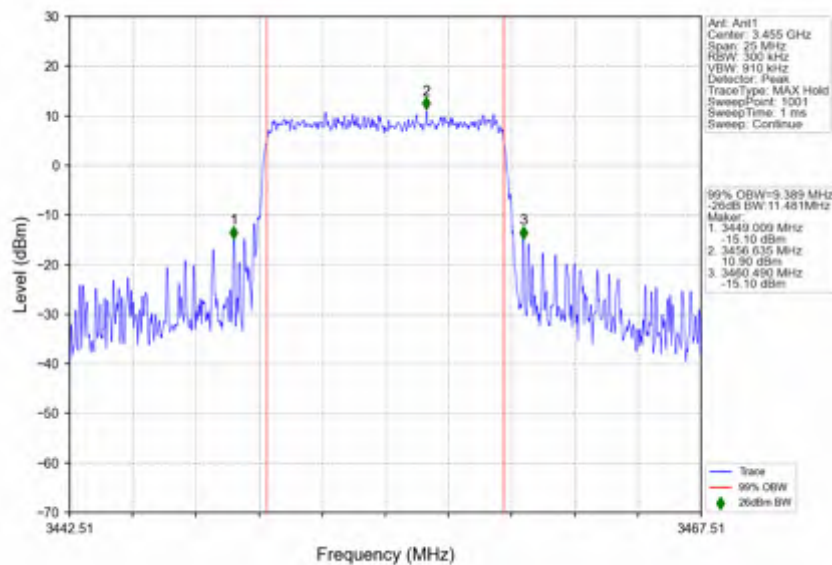
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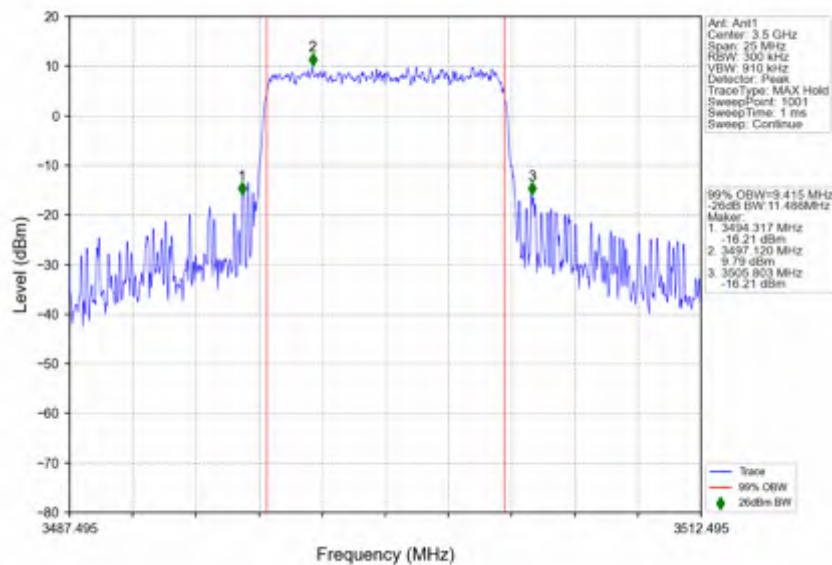
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n78e_15kHz_SISO_NTNV_10MHz_CP-OFDM_16_QAM_3455.01MHz_Outer_Full



n78e_15kHz_SISO_NTNV_10MHz_CP-OFDM_16_QAM_3499.995MHz_Outer_Full



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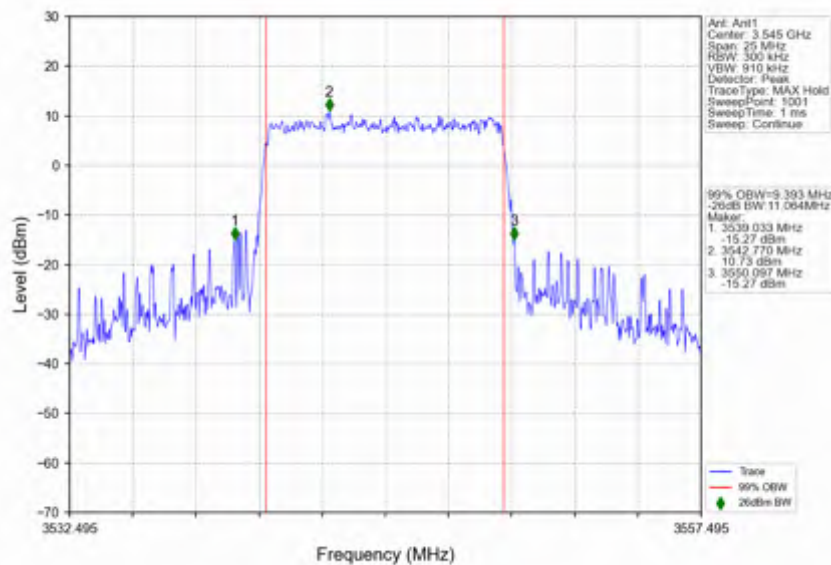
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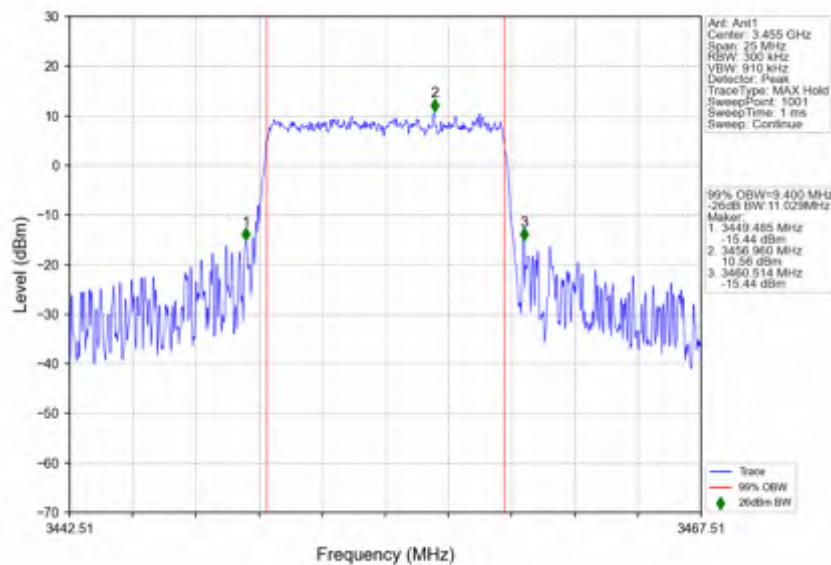
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n78e_15kHz_SISO_NTNV_10MHz_CP-OFDM_16_QAM_3544.995MHz_Outer_Full



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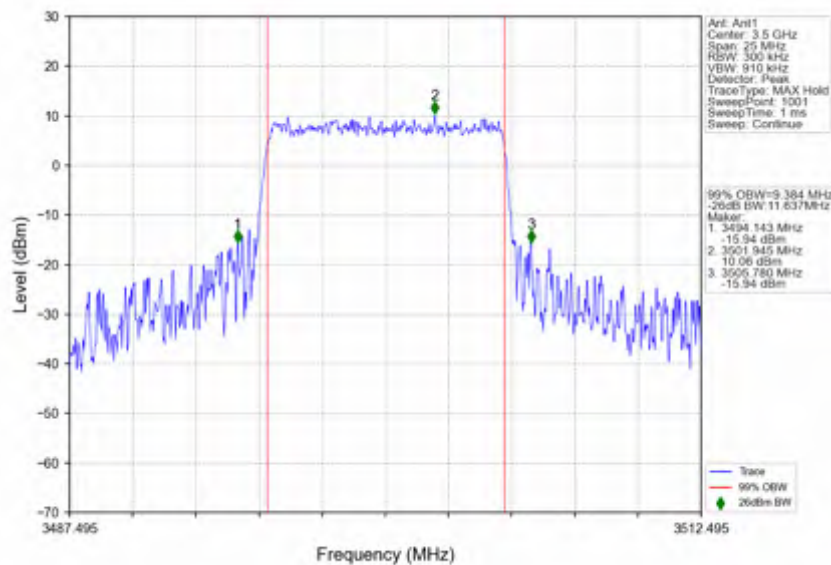
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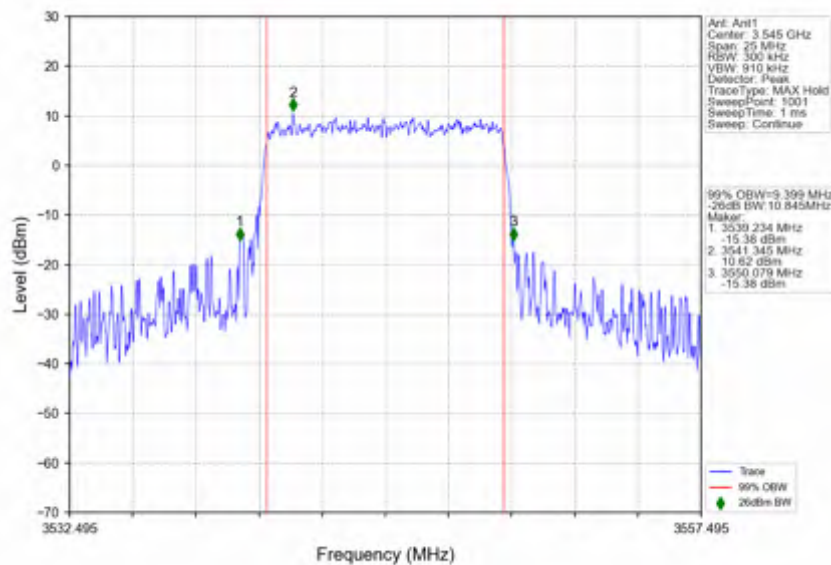
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n78e_15kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_3499.995MHz_Outer_Full



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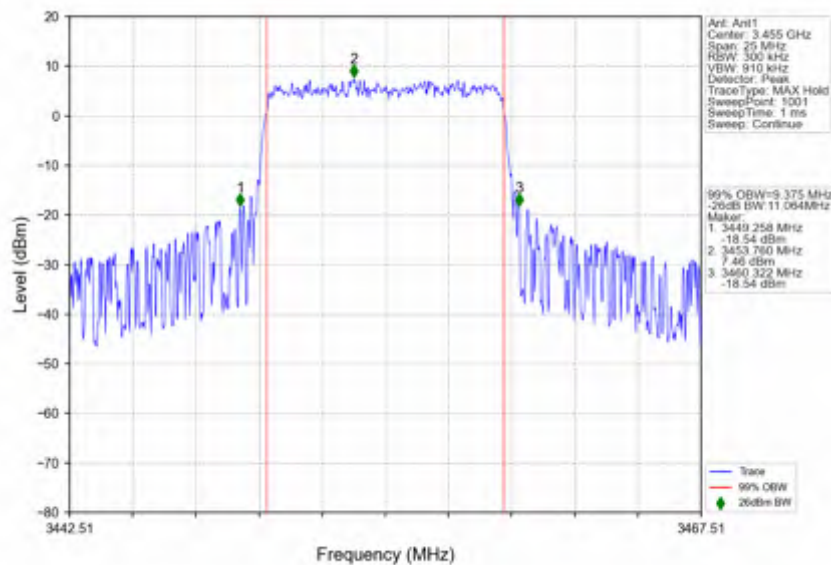
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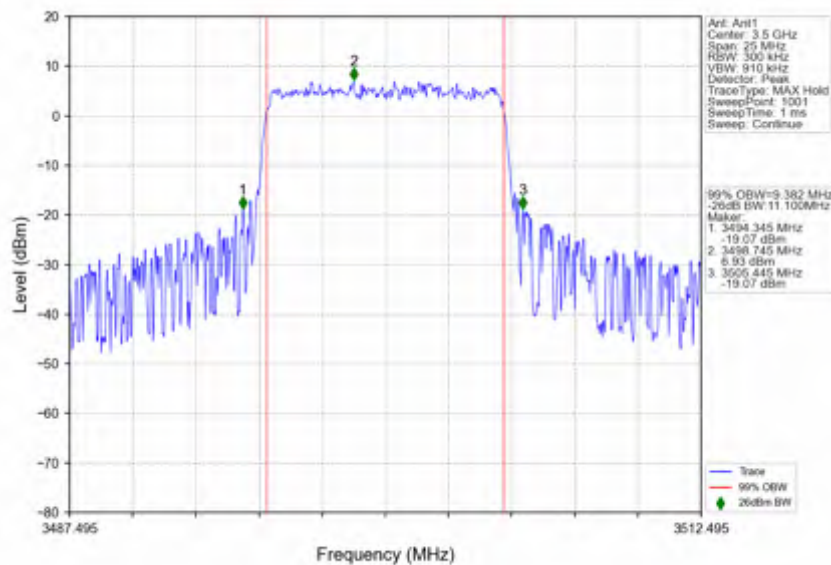
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n78e	15kHz	SISO	NTNV	10MHz	CP-OFDM	256 QAM	3499.995MHz	Outer	Full
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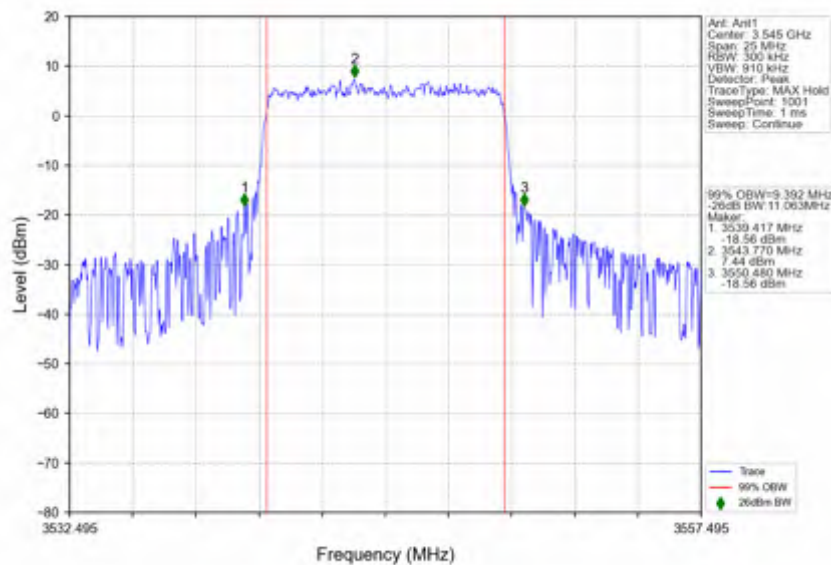


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n78e_15kHz_SISO_NTNV_10MHz_CP-OFDM 256 QAM_3544.995MHz_Outer_Full



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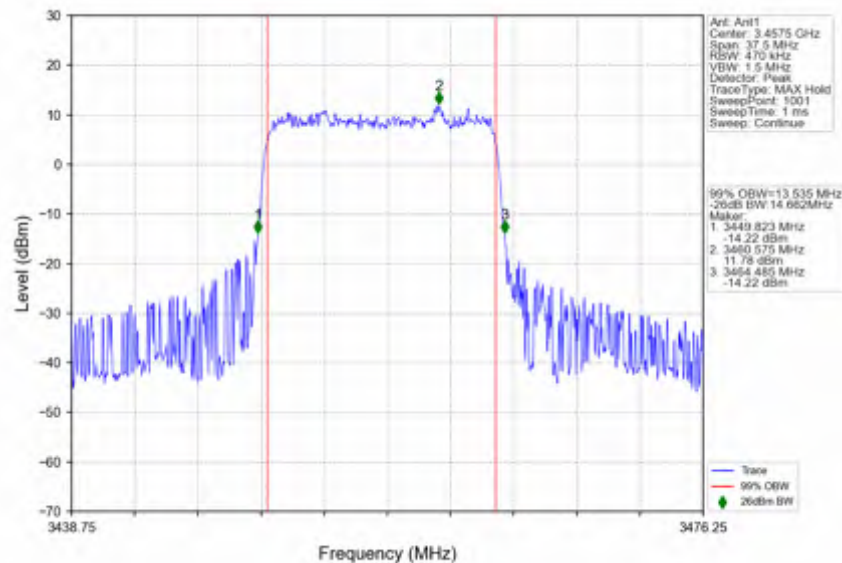
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**9.2 15k_SISO_15MHz_NTNV****9.2.1 Test Result**

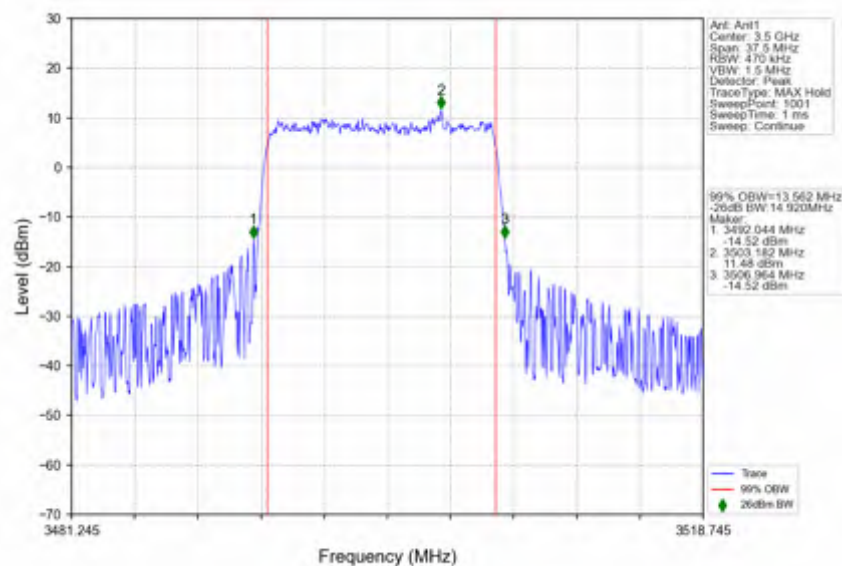
5G NR n78e SCS=15kHz SISO 15MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3457.5	Outer_Full	13.54	14.66	/	Pass
	3499.995	Outer_Full	13.56	14.92	/	Pass
	3542.49	Outer_Full	13.59	14.95	/	Pass
DFT-s-OFDM QPSK	3457.5	Outer_Full	13.57	14.85	/	Pass
	3499.995	Outer_Full	13.59	14.89	/	Pass
	3542.49	Outer_Full	13.57	14.66	/	Pass
DFT-s-OFDM 16 QAM	3457.5	Outer_Full	13.58	14.65	/	Pass
	3499.995	Outer_Full	13.53	14.68	/	Pass
	3542.49	Outer_Full	13.55	14.68	/	Pass
DFT-s-OFDM 64 QAM	3457.5	Outer_Full	13.53	15.14	/	Pass
	3499.995	Outer_Full	13.55	14.74	/	Pass
	3542.49	Outer_Full	13.55	14.86	/	Pass
DFT-s-OFDM 256 QAM	3457.5	Outer_Full	13.56	15.13	/	Pass
	3499.995	Outer_Full	13.54	14.71	/	Pass
	3542.49	Outer_Full	13.56	14.60	/	Pass
CP-OFDM QPSK	3457.5	Outer_Full	14.23	15.38	/	Pass
	3499.995	Outer_Full	14.24	15.44	/	Pass
	3542.49	Outer_Full	14.24	15.24	/	Pass
CP-OFDM 16 QAM	3457.5	Outer_Full	14.24	15.25	/	Pass
	3499.995	Outer_Full	14.24	16.31	/	Pass
	3542.49	Outer_Full	14.21	17.93	/	Pass
CP-OFDM 64 QAM	3457.5	Outer_Full	14.26	15.40	/	Pass
	3499.995	Outer_Full	14.24	15.30	/	Pass
	3542.49	Outer_Full	14.20	15.65	/	Pass
CP-OFDM 256 QAM	3457.5	Outer_Full	14.23	15.29	/	Pass
	3499.995	Outer_Full	14.23	15.25	/	Pass
	3542.49	Outer_Full	14.20	15.31	/	Pass

9.2.2 Test Graph

n78e_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM_PI/2_BPSK_3457.5MHz_Outer_Full



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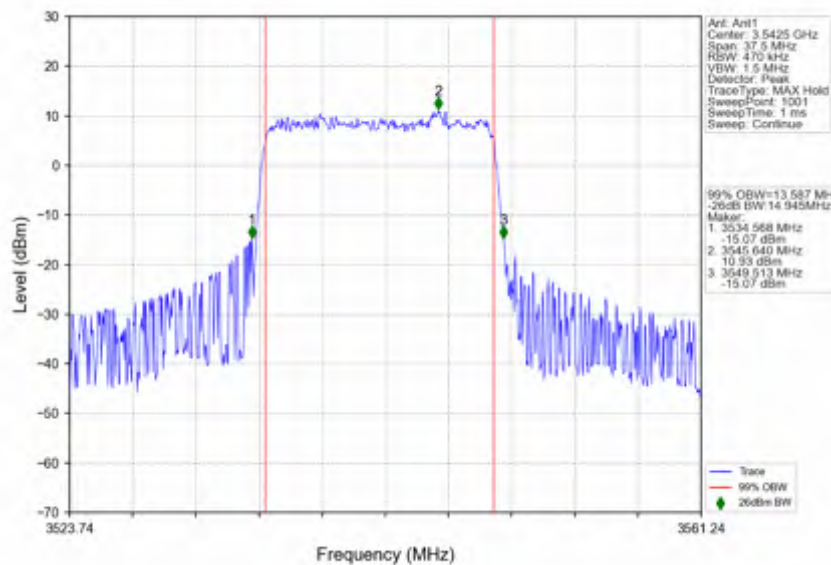
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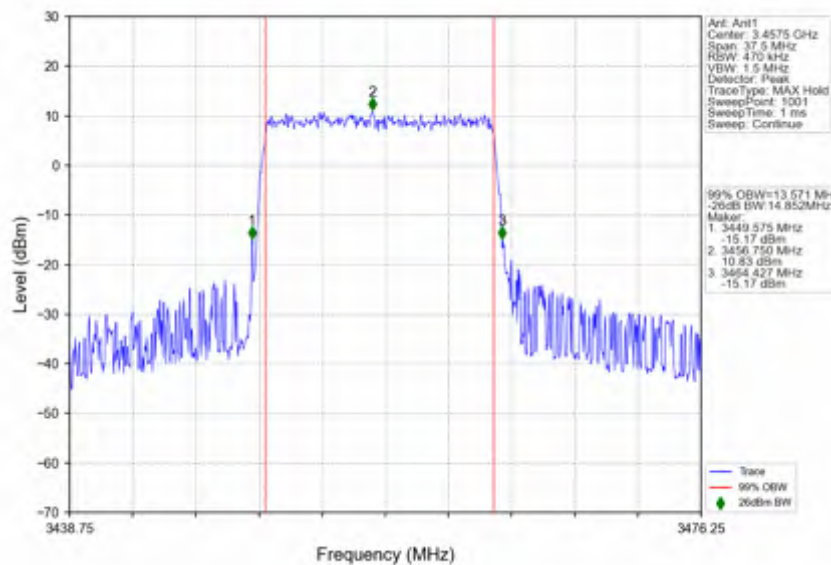
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n78e_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_3457.5MHz_Outer_Full



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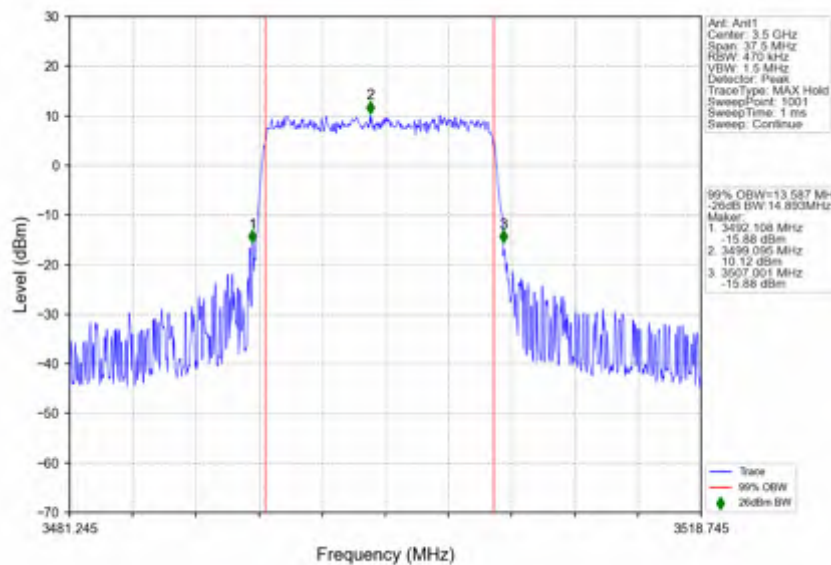
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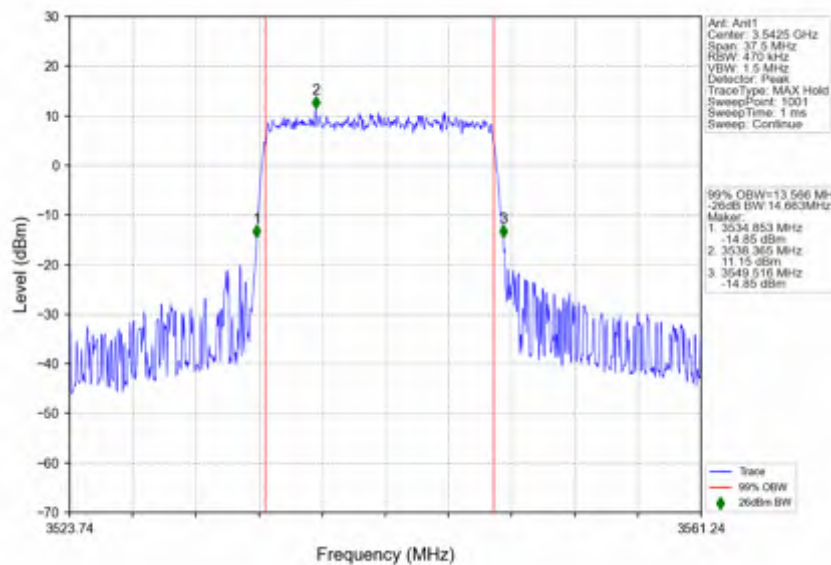
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n78e_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_3542.49MHz_Outer_Full



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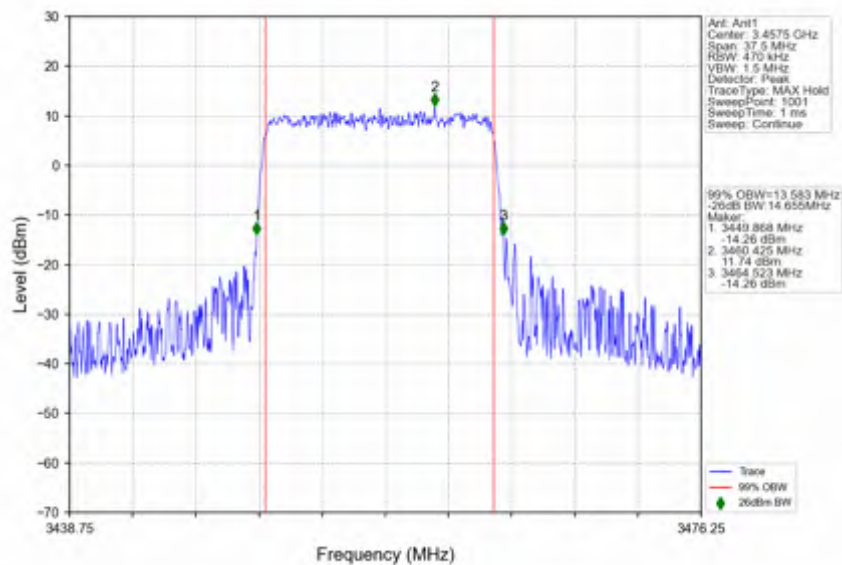
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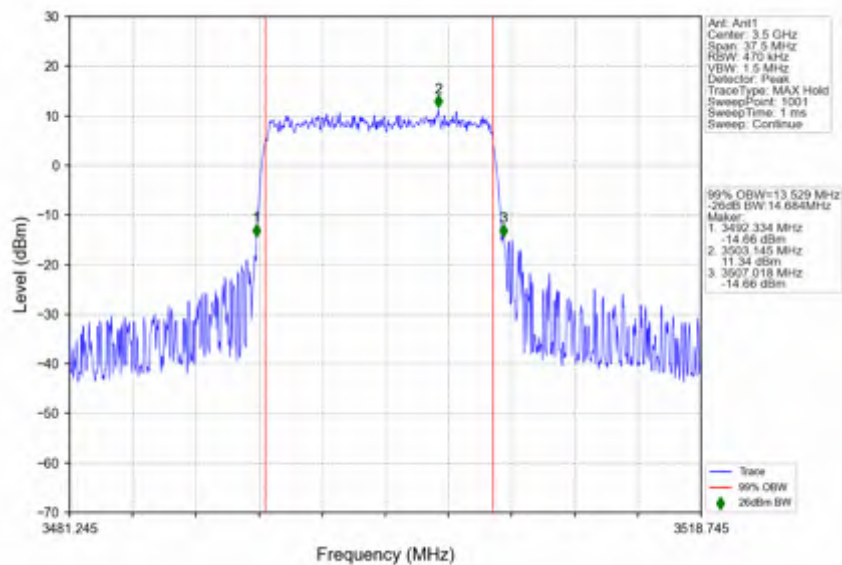
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n78e_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM_16_QAM_3457.5MHz_Outer_Full



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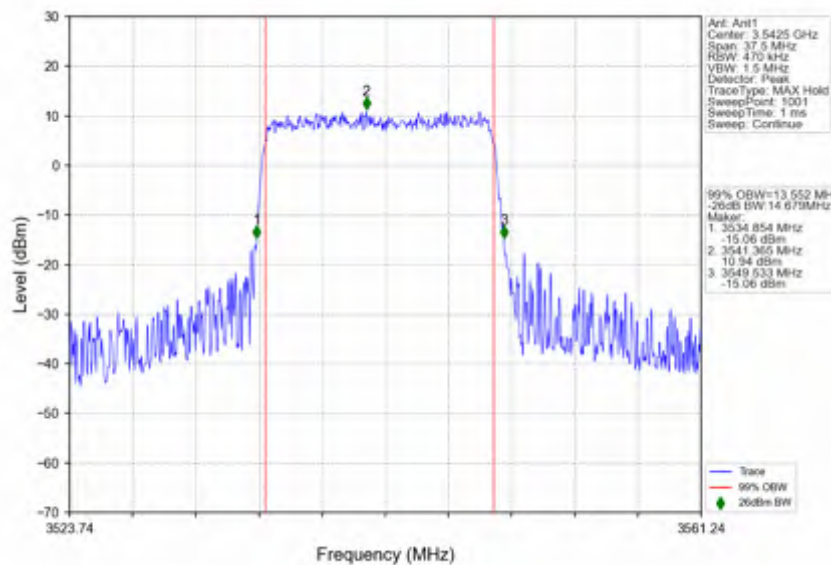
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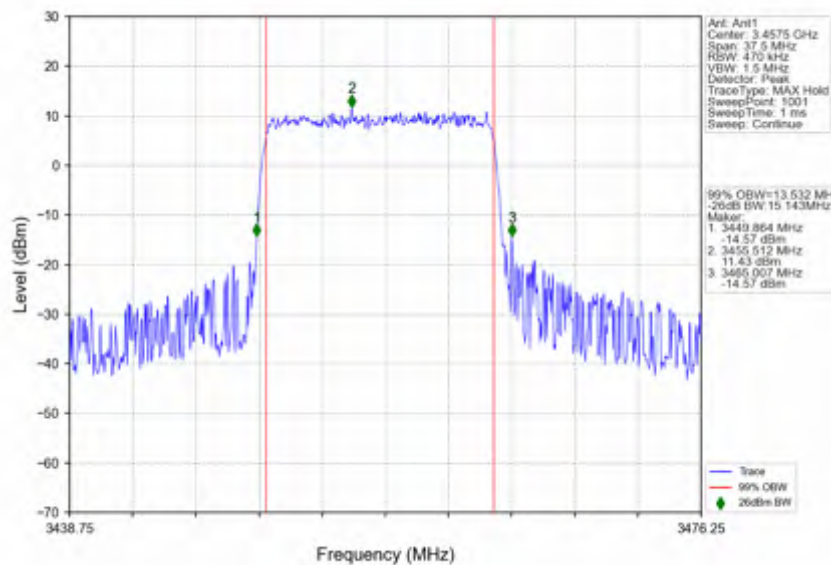
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n78e_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM_64_QAM_3457.5MHz_Outer_Full

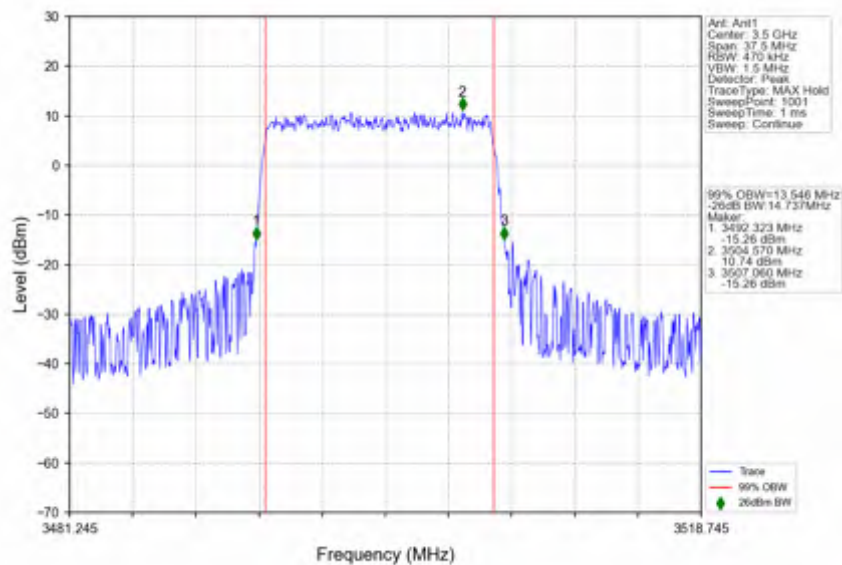


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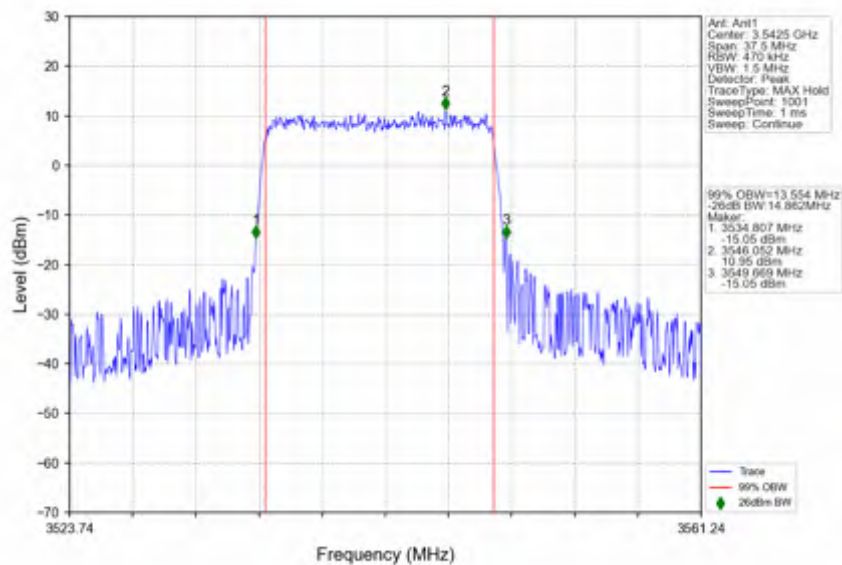
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n78e_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM_64_QAM_3499.995MHz_Outer_Full



n78e	15kHz	SISO	NTNV	15MHz	DFT-s-OFDM	64 QAM	3542.49MHz	Outer	Full
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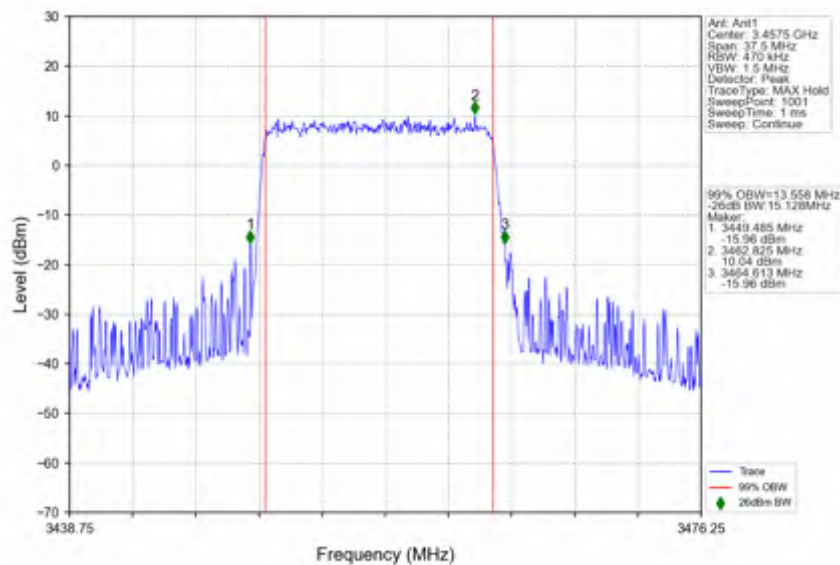


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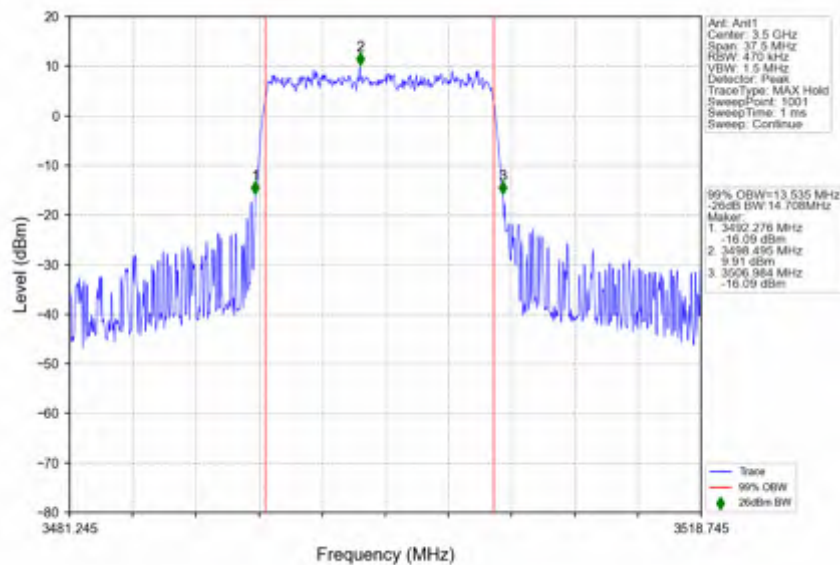
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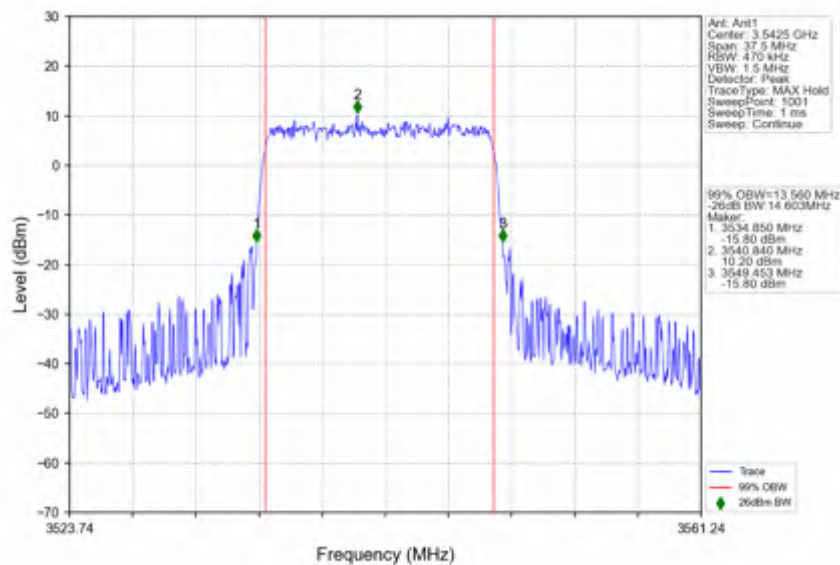
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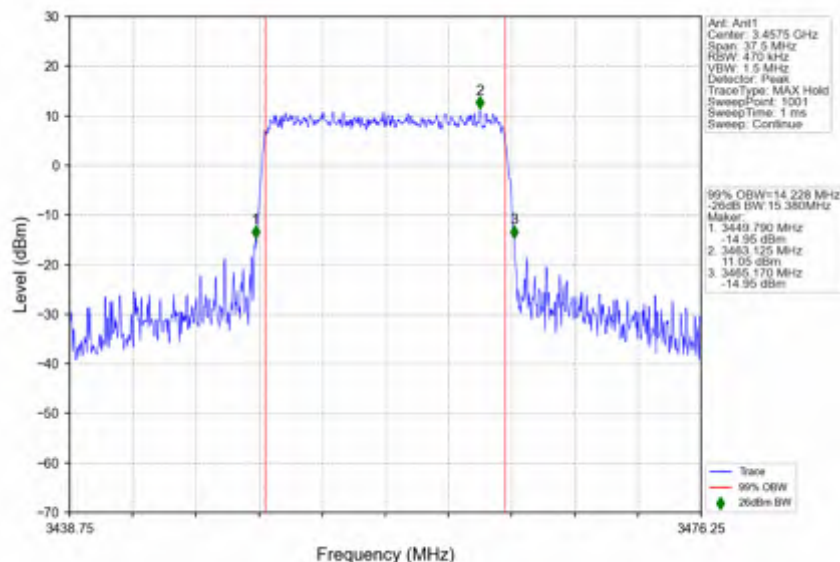
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n78e	15kHz	SISO	NTNV	15MHz	CP-OFDM	QPSK	3457.5MHz	Outer	Full
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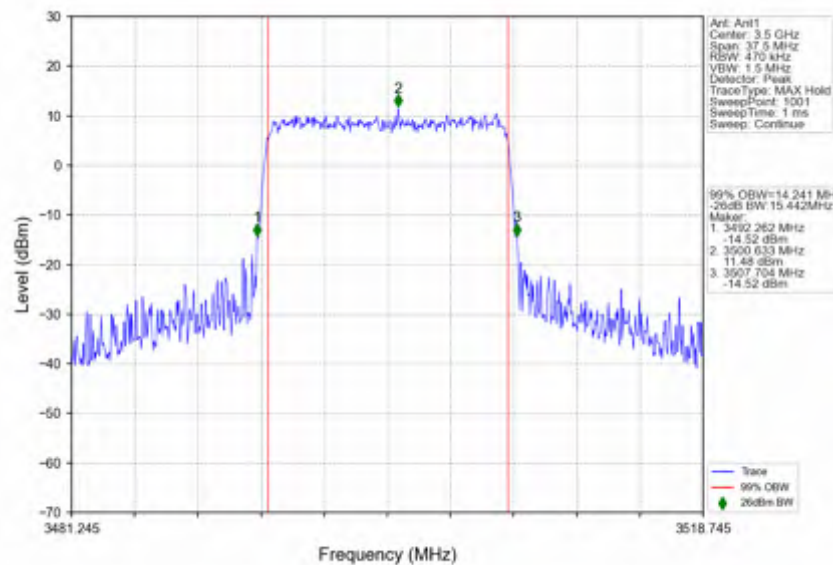


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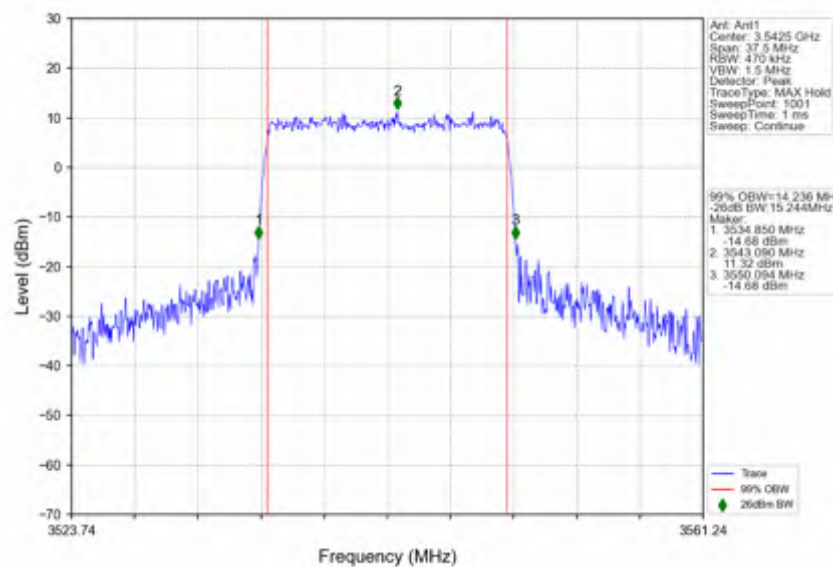
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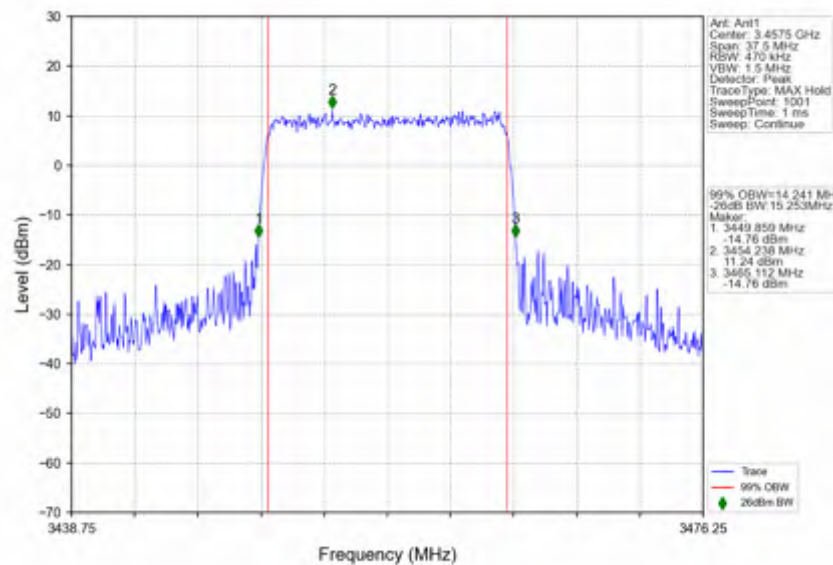
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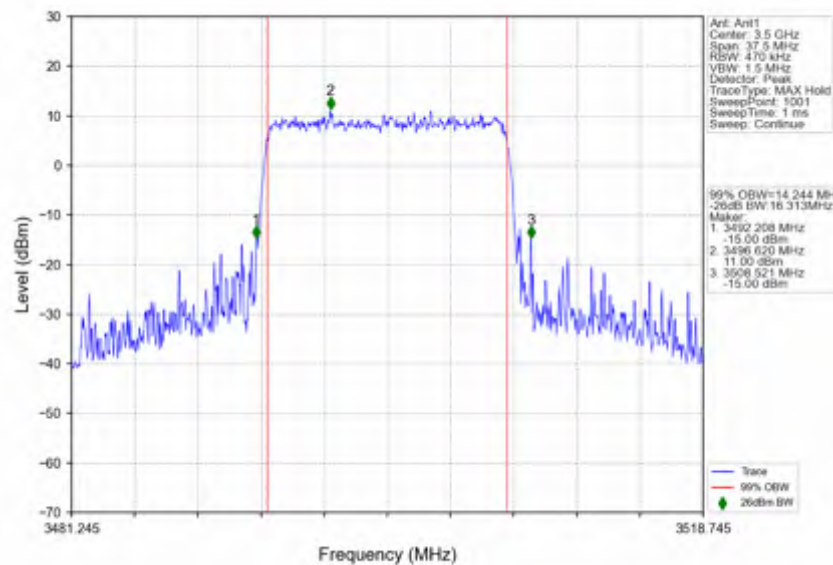
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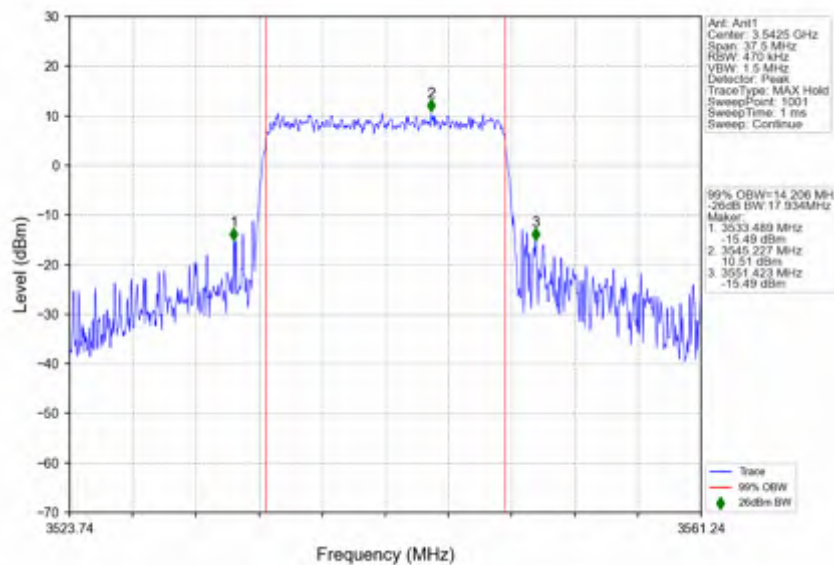
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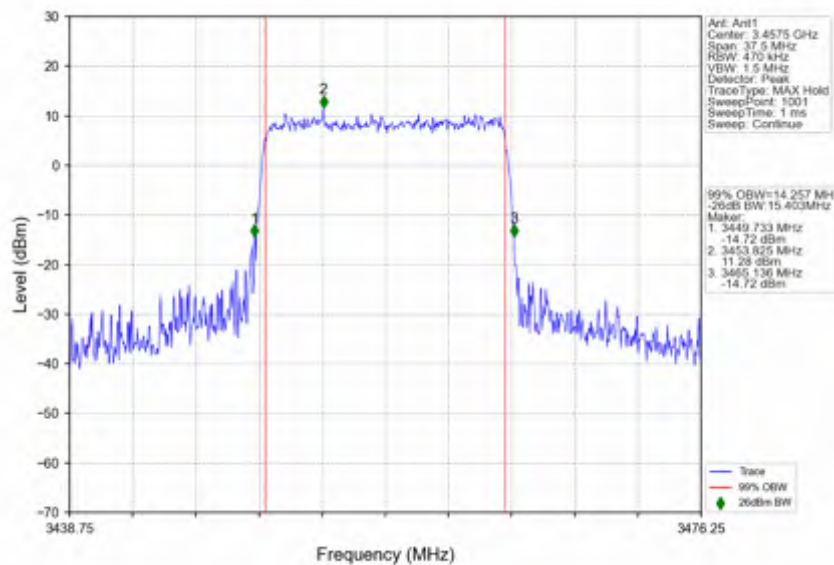
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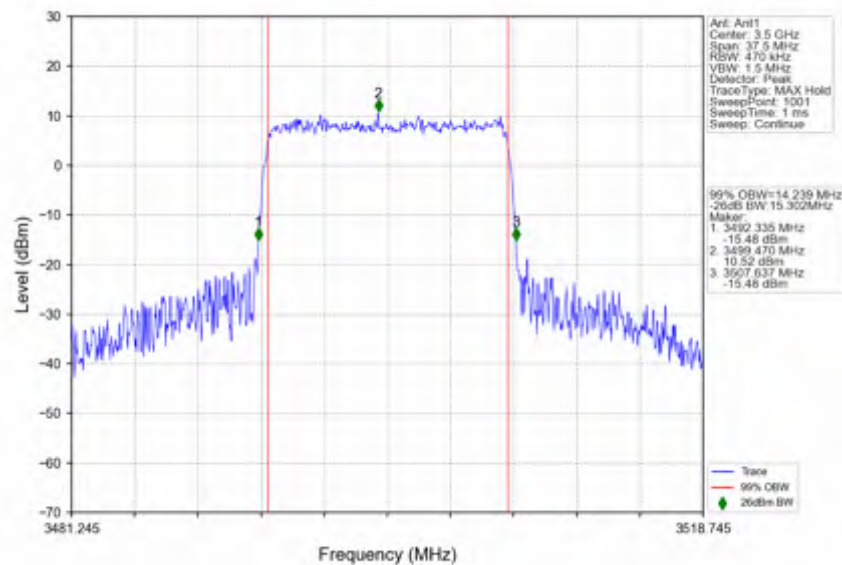
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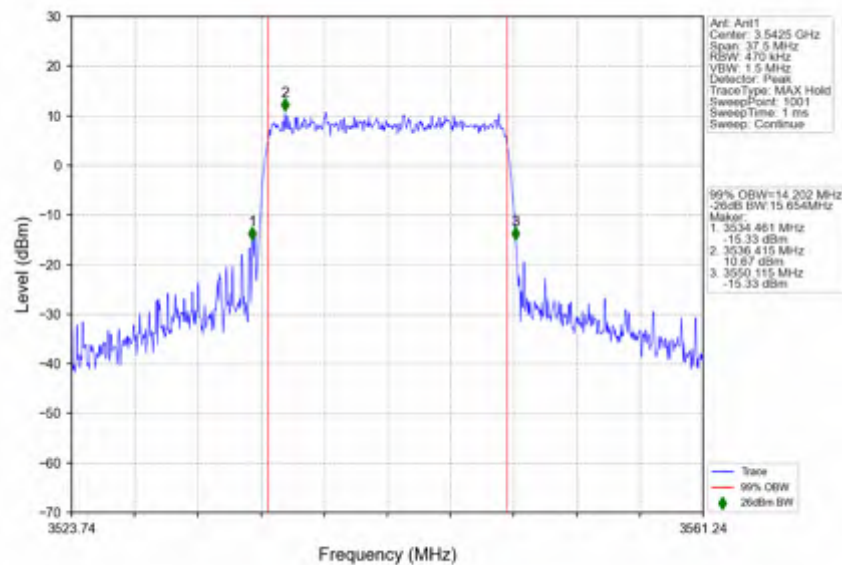
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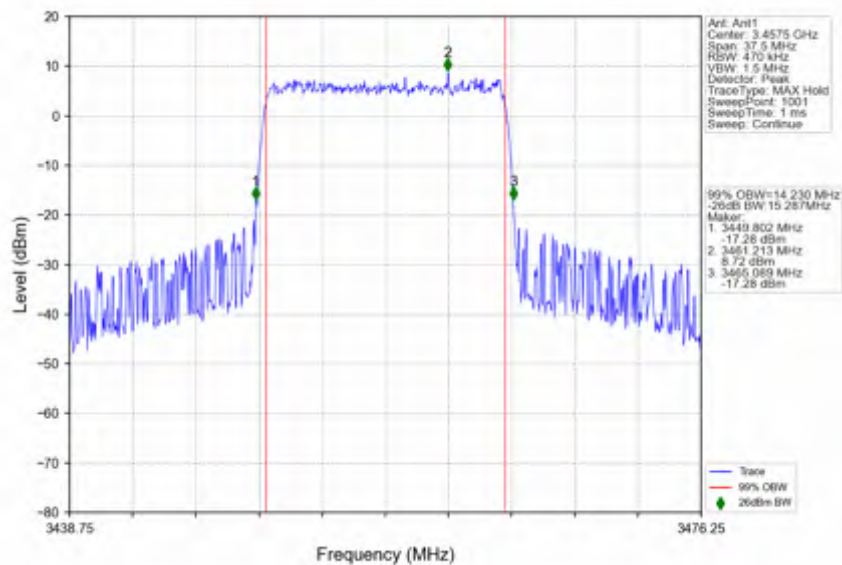
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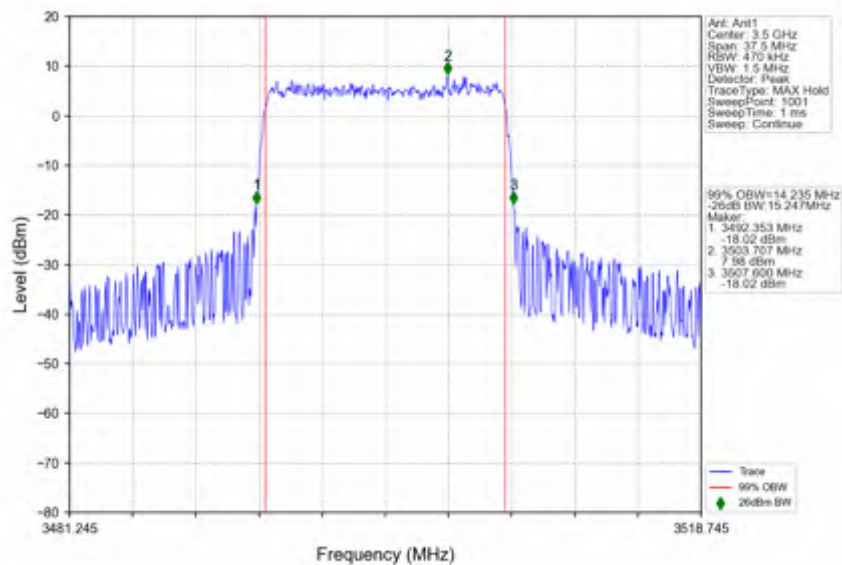
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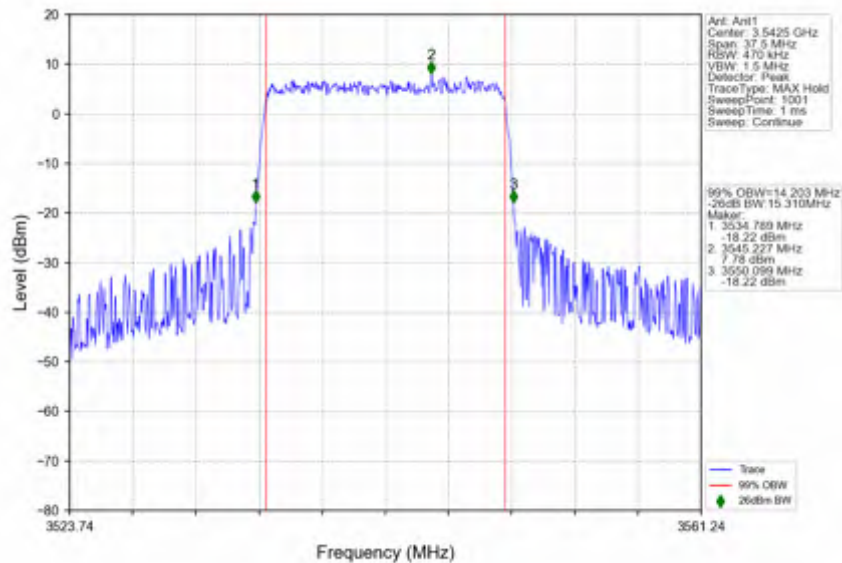
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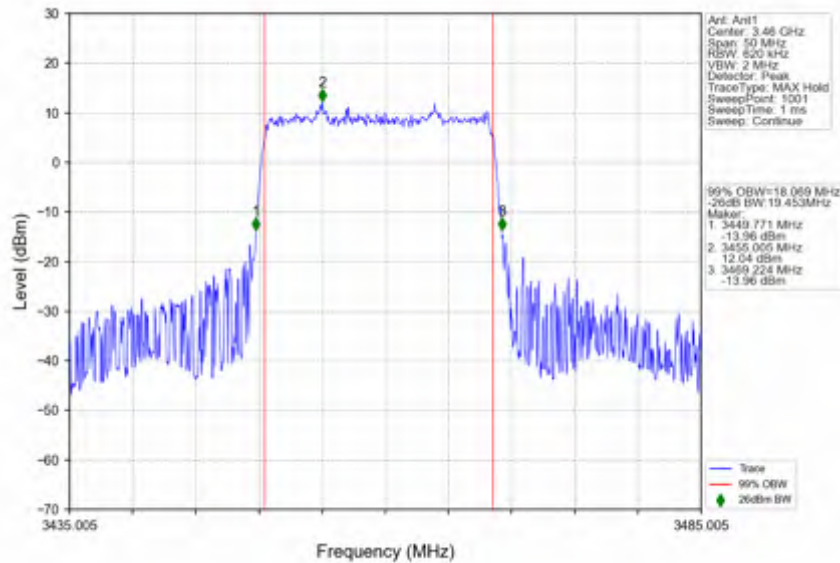
9.3 15k_SISO_20MHz_NTNV

9.3.1 Test Result

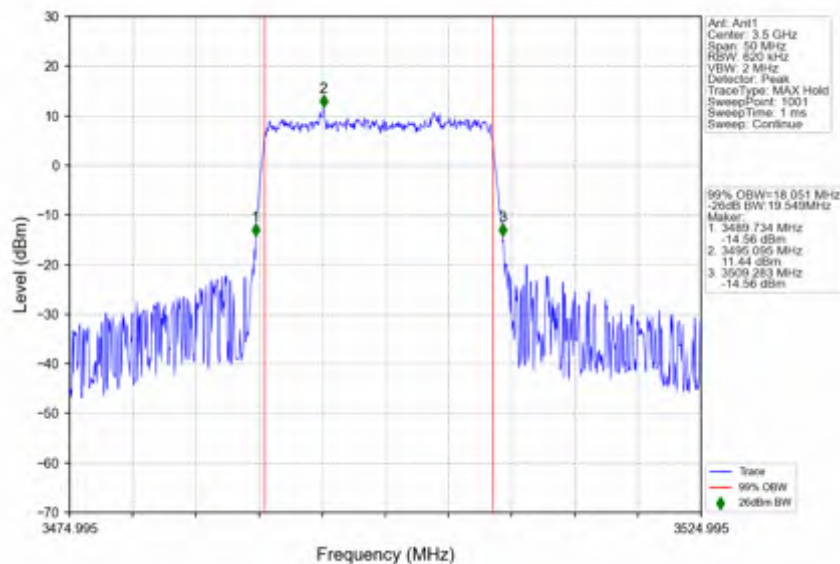
5G NR n78e SCS=15kHz SISO 20MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3460.005	Outer_Full	18.07	19.45	/	Pass
	3499.995	Outer_Full	18.05	19.55	/	Pass
	3540	Outer_Full	18.08	19.65	/	Pass
DFT-s-OFDM QPSK	3460.005	Outer_Full	18.11	19.72	/	Pass
	3499.995	Outer_Full	18.24	19.16	/	Pass
	3540	Outer_Full	18.22	19.55	/	Pass
DFT-s-OFDM 16 QAM	3460.005	Outer_Full	18.09	19.73	/	Pass
	3499.995	Outer_Full	18.09	19.99	/	Pass
	3540	Outer_Full	18.13	19.75	/	Pass
DFT-s-OFDM 64 QAM	3460.005	Outer_Full	18.12	19.59	/	Pass
	3499.995	Outer_Full	18.07	19.82	/	Pass
	3540	Outer_Full	18.05	19.99	/	Pass
DFT-s-OFDM 256 QAM	3460.005	Outer_Full	18.03	19.53	/	Pass
	3499.995	Outer_Full	18.01	19.61	/	Pass
	3540	Outer_Full	18.07	19.68	/	Pass
CP-OFDM QPSK	3460.005	Outer_Full	19.14	21.22	/	Pass
	3499.995	Outer_Full	19.06	20.90	/	Pass
	3540	Outer_Full	19.07	20.63	/	Pass
CP-OFDM 16 QAM	3460.005	Outer_Full	19.06	20.49	/	Pass
	3499.995	Outer_Full	19.10	20.59	/	Pass
	3540	Outer_Full	19.07	20.85	/	Pass
CP-OFDM 64 QAM	3460.005	Outer_Full	19.08	21.32	/	Pass
	3499.995	Outer_Full	19.10	20.93	/	Pass
	3540	Outer_Full	19.07	20.63	/	Pass
CP-OFDM 256 QAM	3460.005	Outer_Full	19.01	20.86	/	Pass
	3499.995	Outer_Full	19.02	20.68	/	Pass
	3540	Outer_Full	19.08	20.50	/	Pass

9.3.2 Test Graph

n78e_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_PI/2_BPSK_3460.005MHz_Outer_Full



n78e_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_PI/2_BPSK_3499.995MHz_Outer_Full



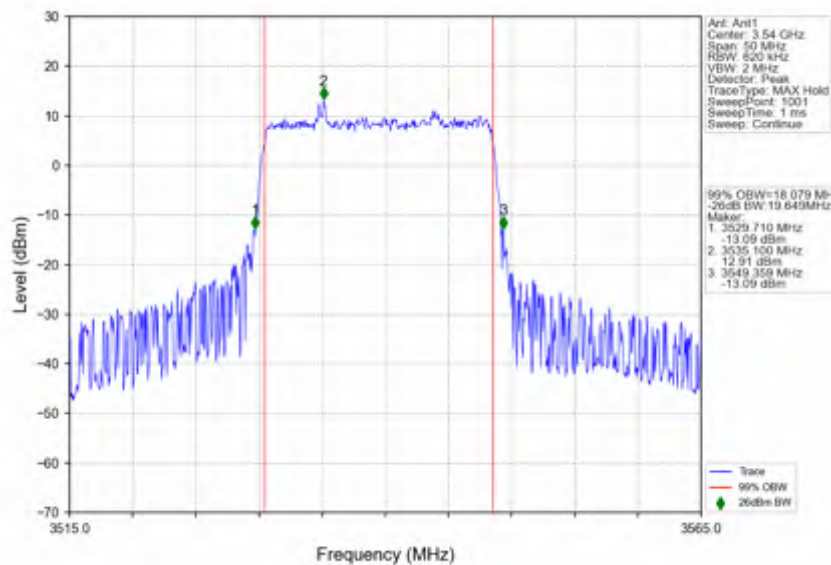
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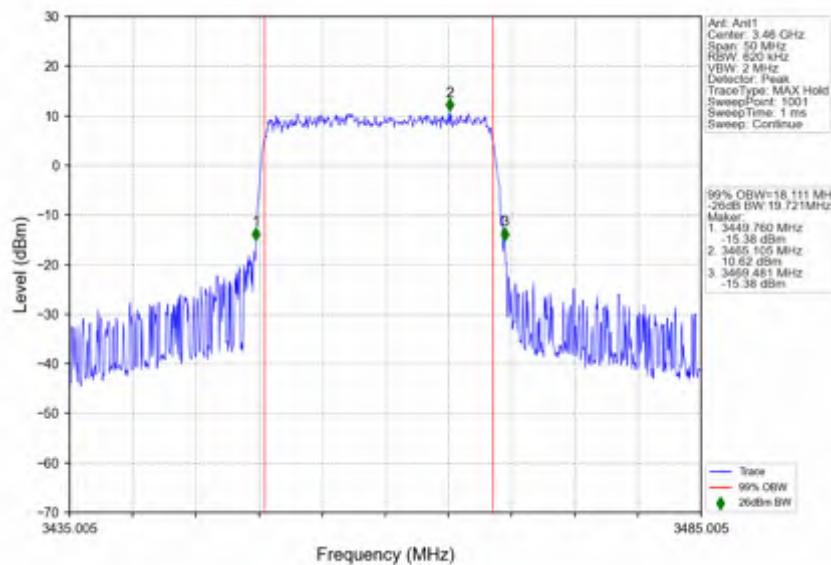
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n78e_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_3540MHz_Outer_Full



n78e_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_3460.005MHz_Outer_Full



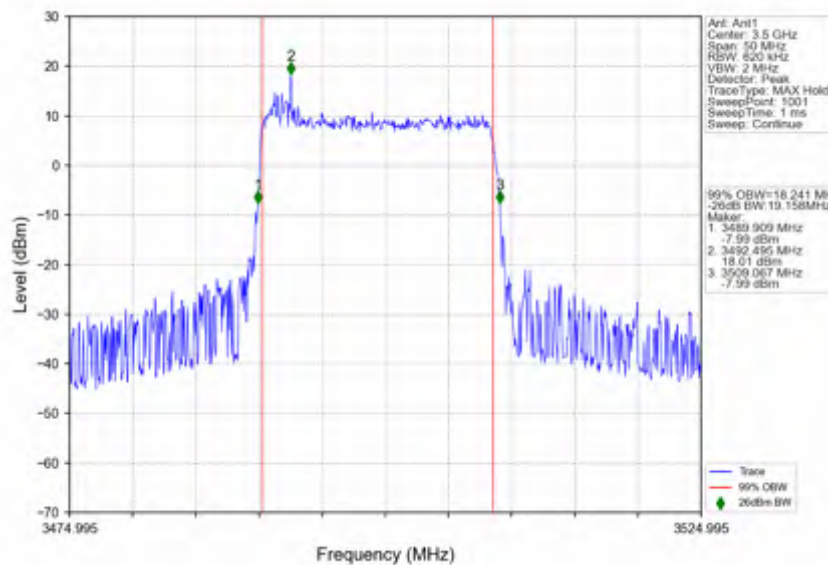
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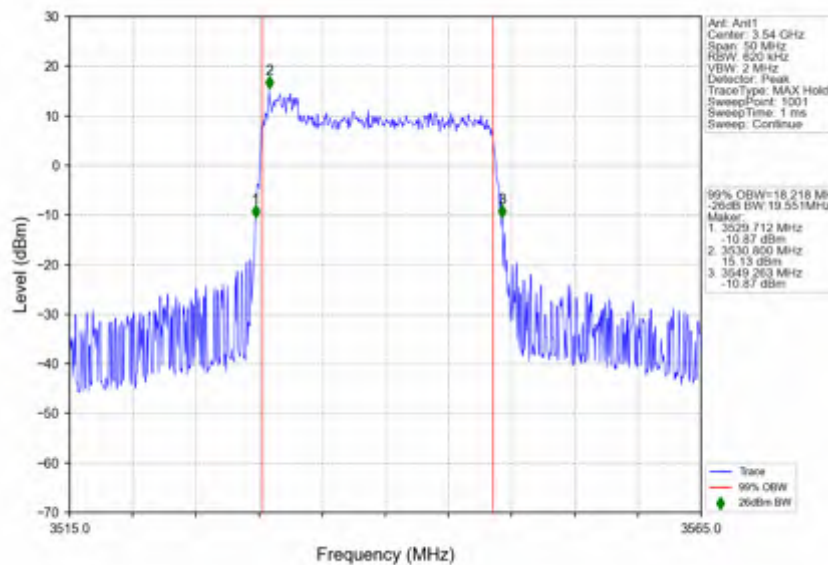
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n78e_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_3499.995MHz_Outer_Full



n78e_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_3540MHz_Outer_Full



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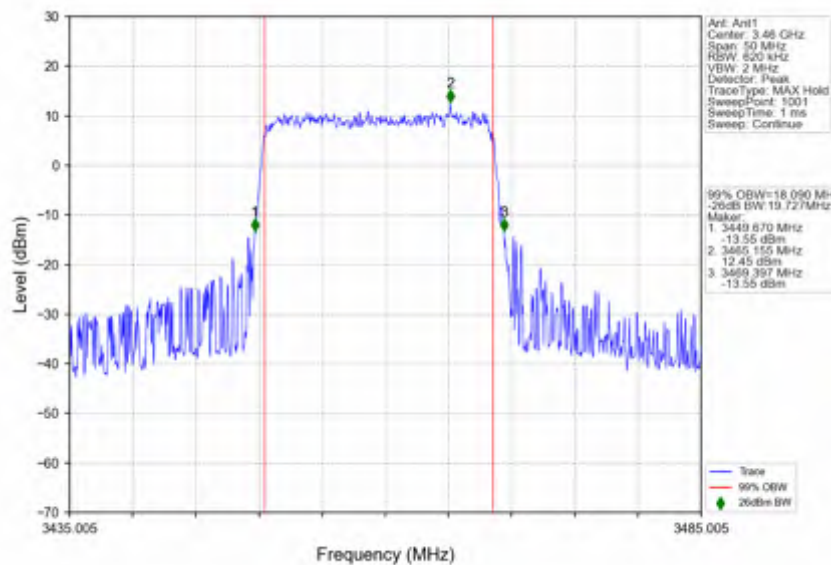
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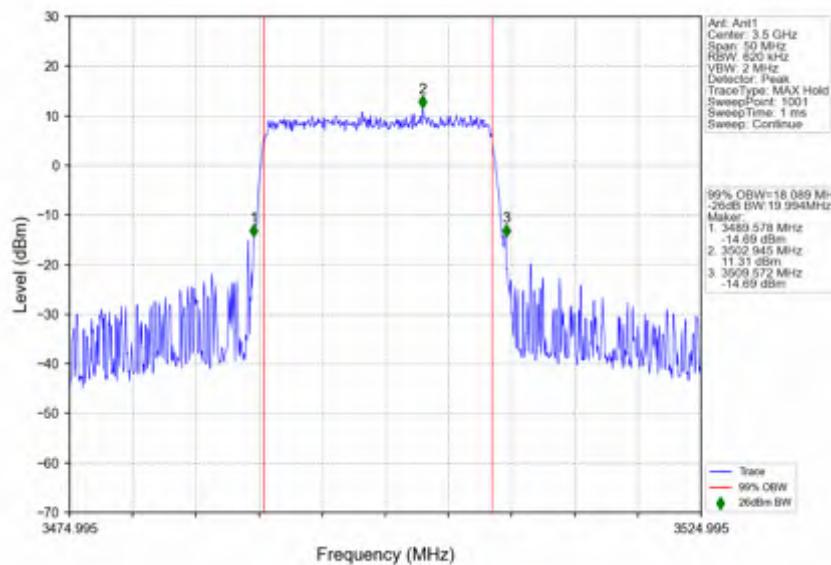
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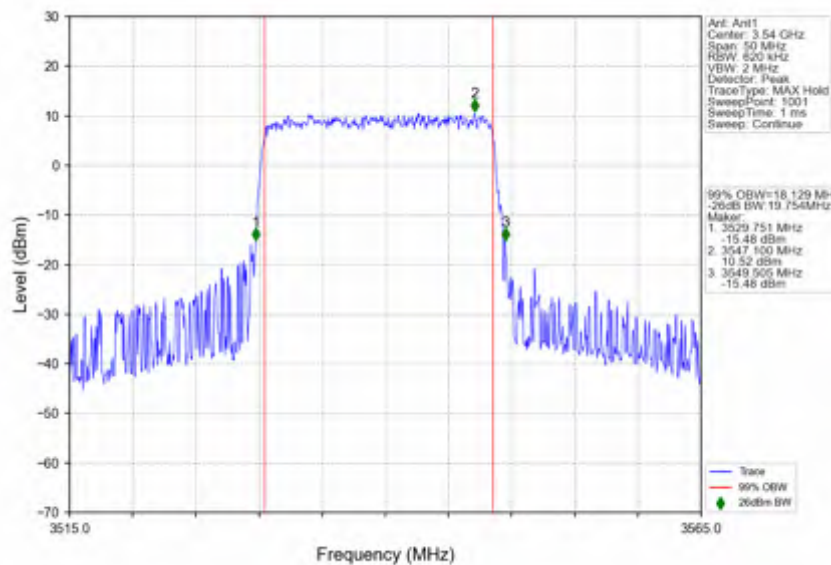


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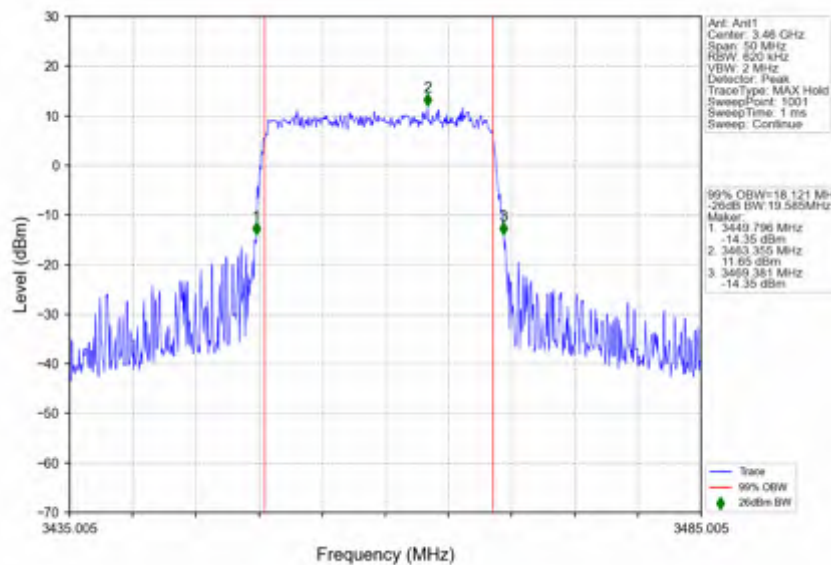
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n78e_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_64_QAM_3460.005MHz_Outer_Full

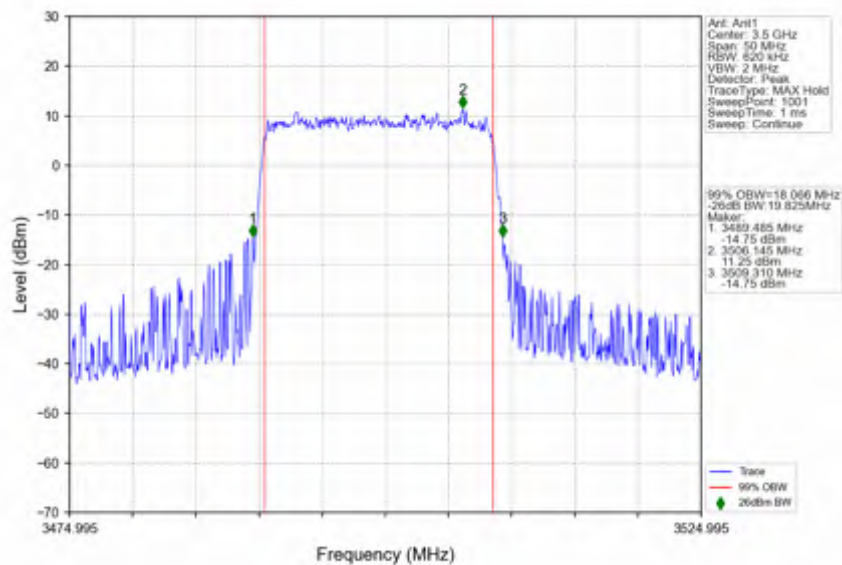


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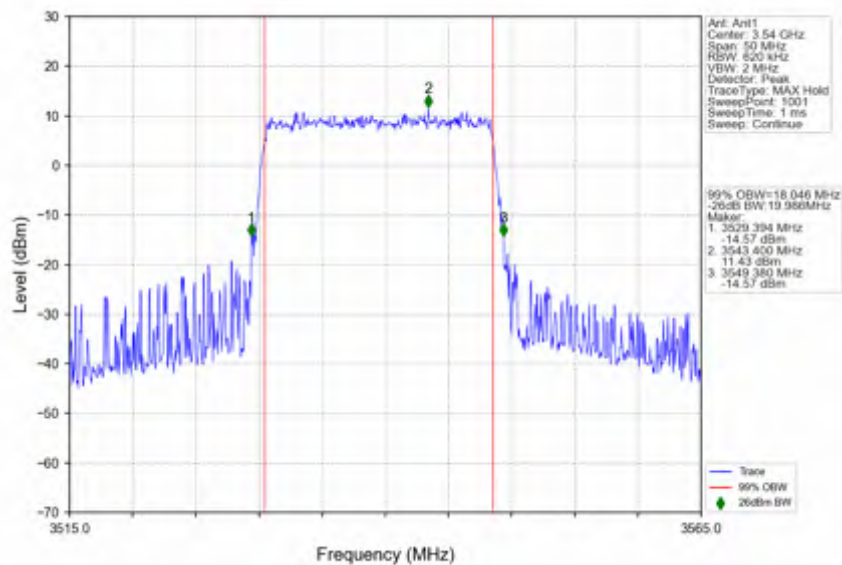
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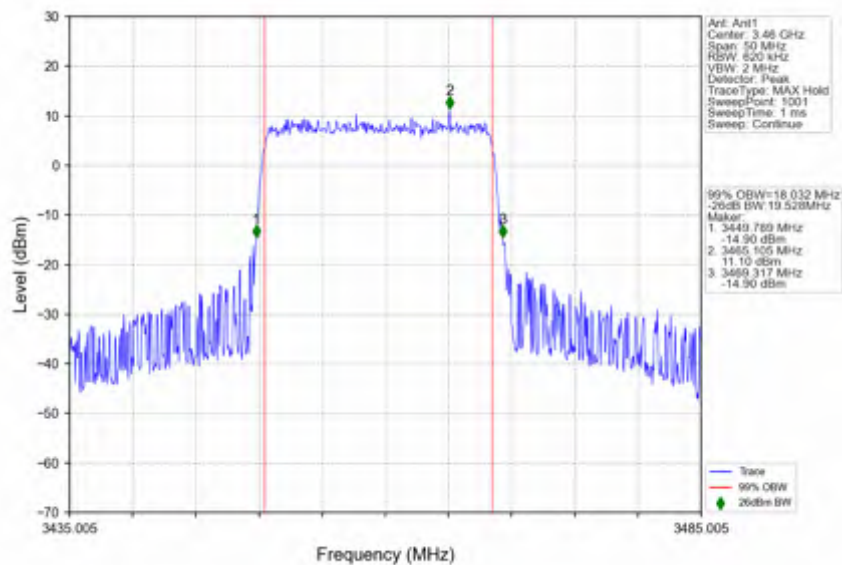
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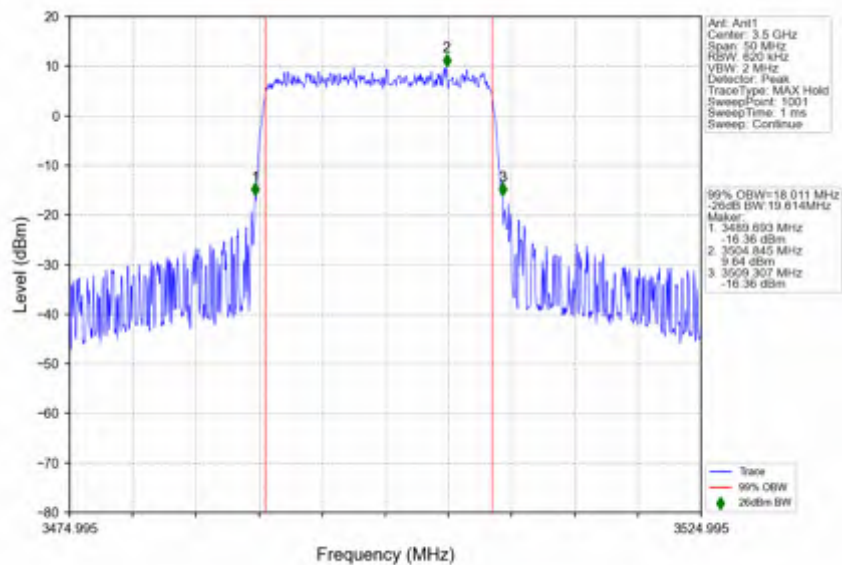
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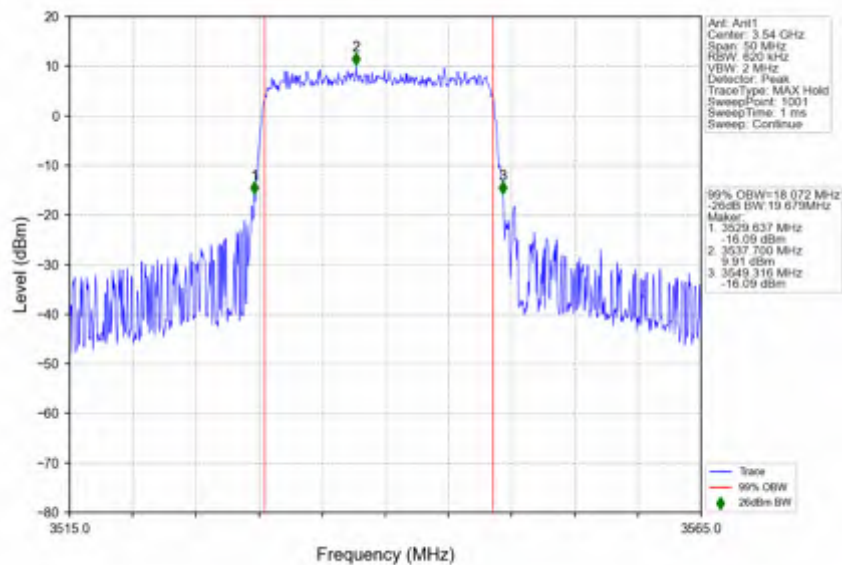


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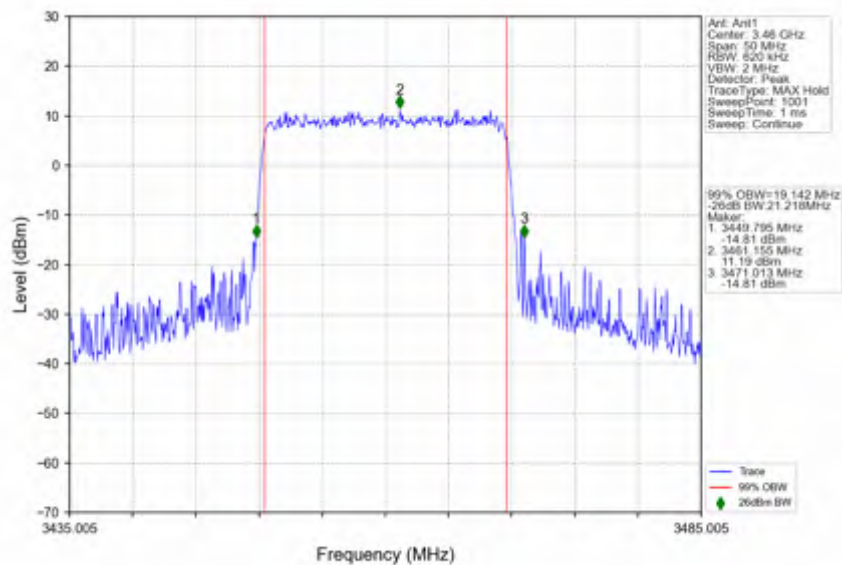
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n78e_15kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_3460.005MHz_Outer_Full



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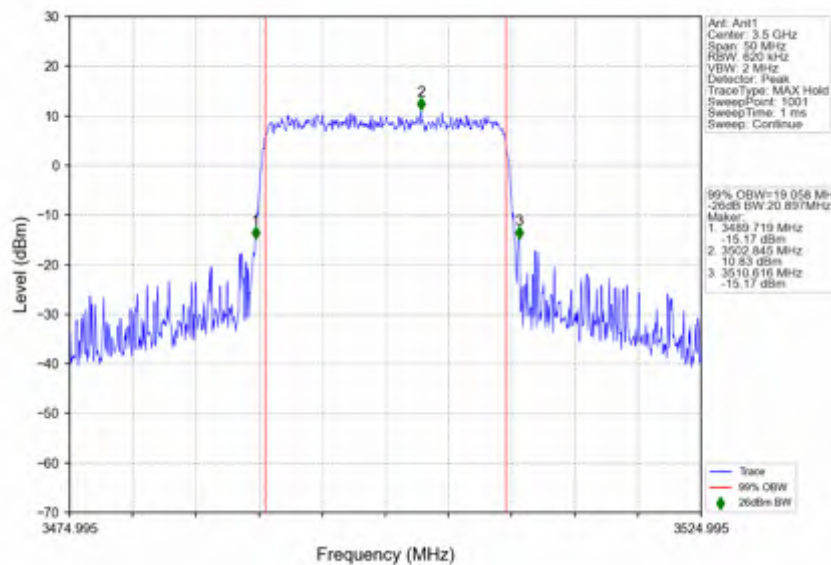
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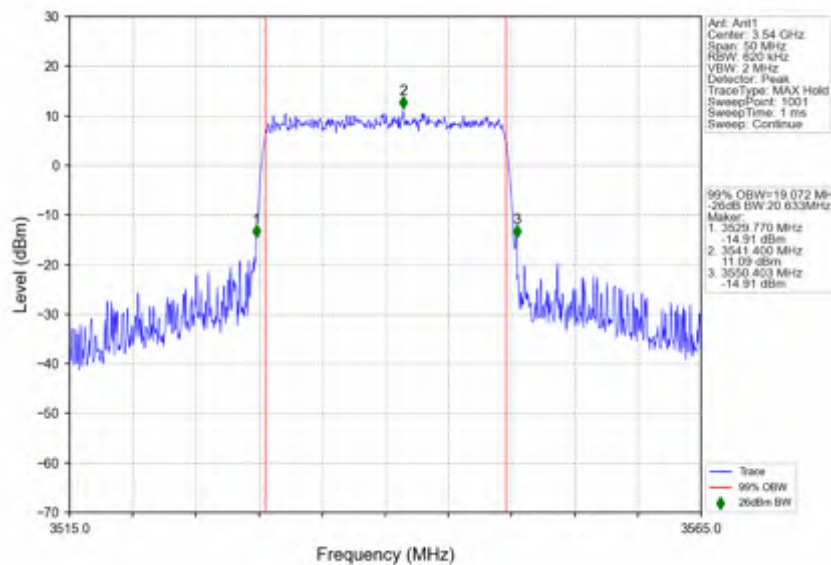
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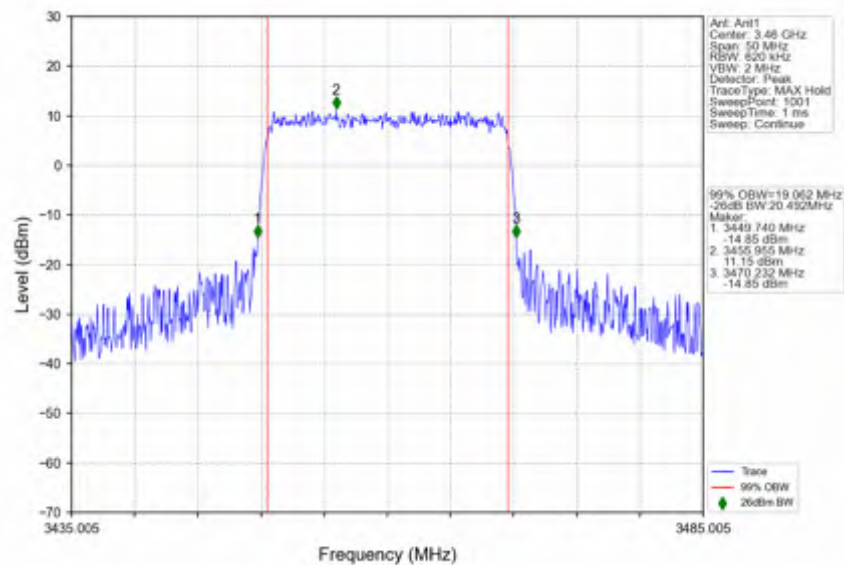
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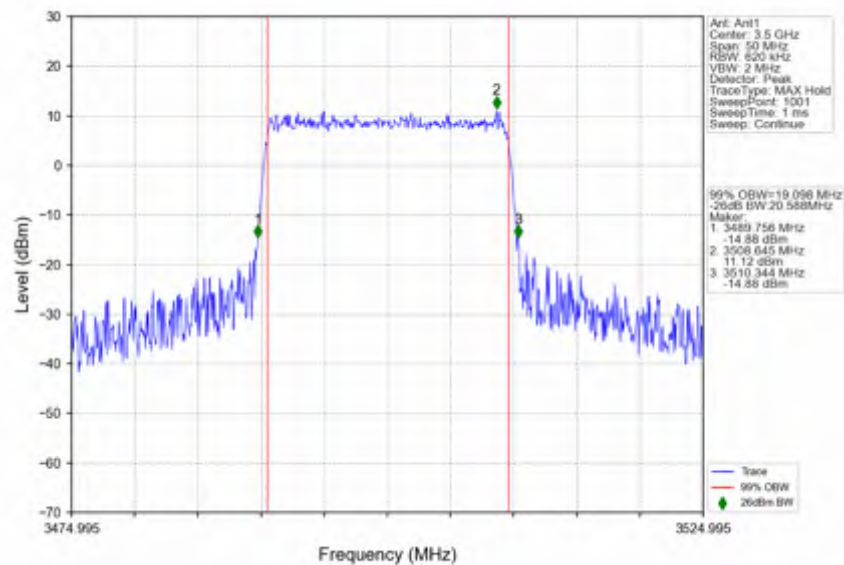
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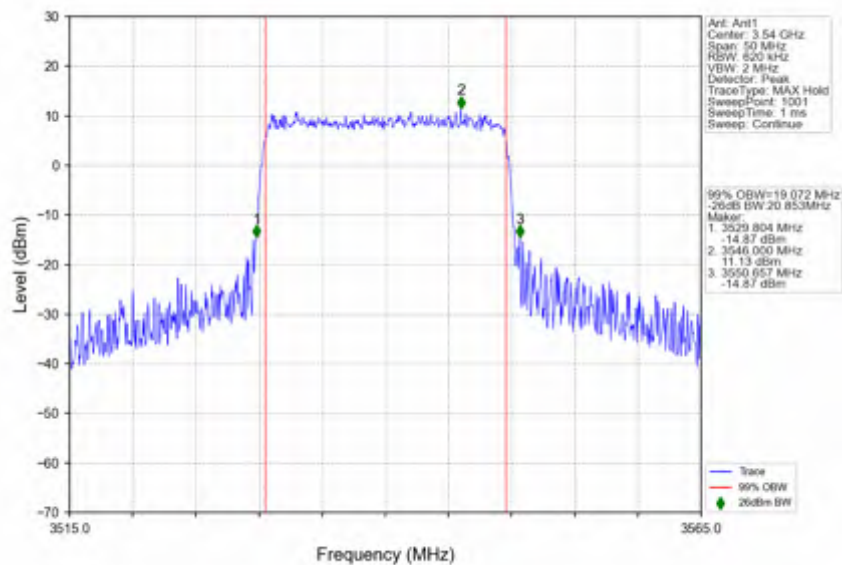
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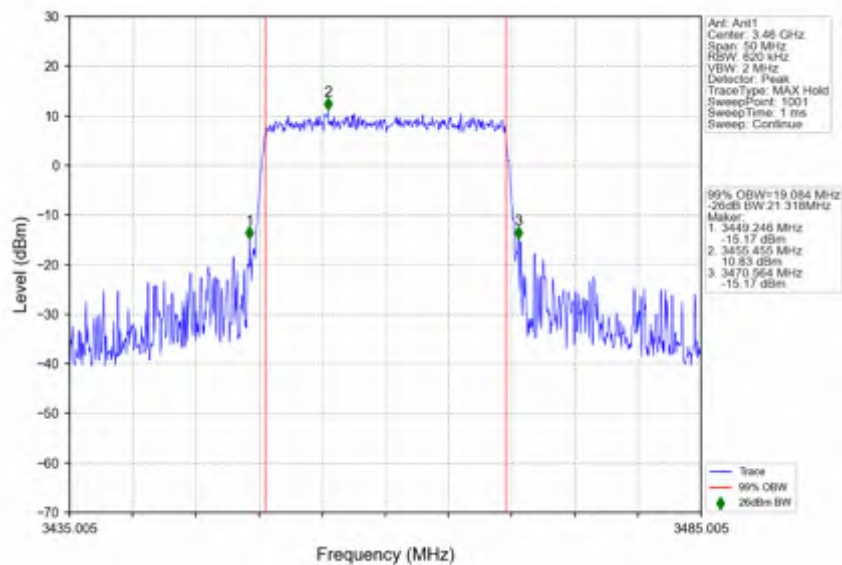
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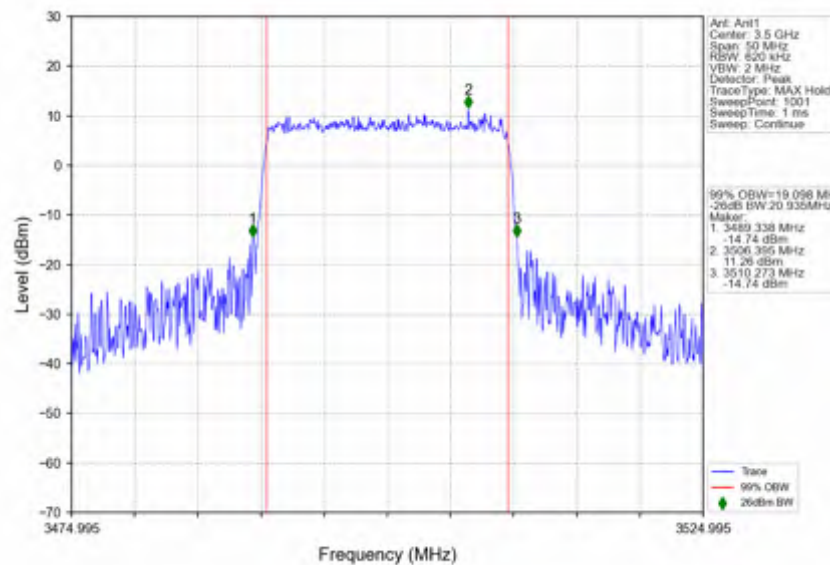


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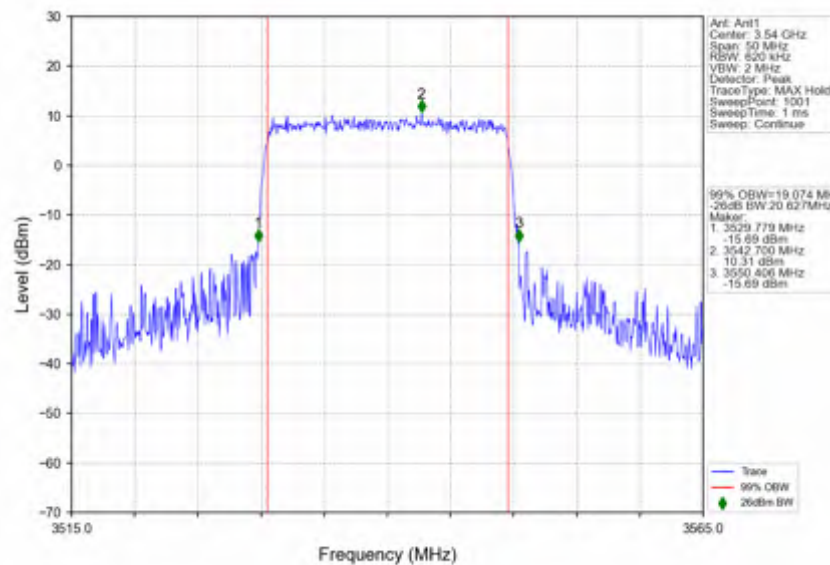
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n78e_15kHz_SISO_NTNV_20MHz_CP-OFDM 64 QAM_3499.995MHz_Outer_Full



n78e_15kHz_SISO_NTNV_20MHz_CP-OFDM 64 QAM_3540MHz_Outer_Full



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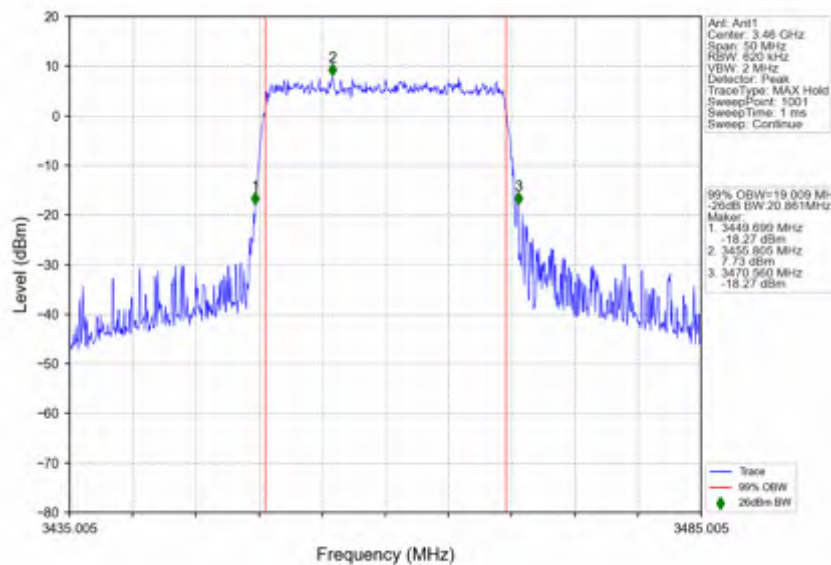
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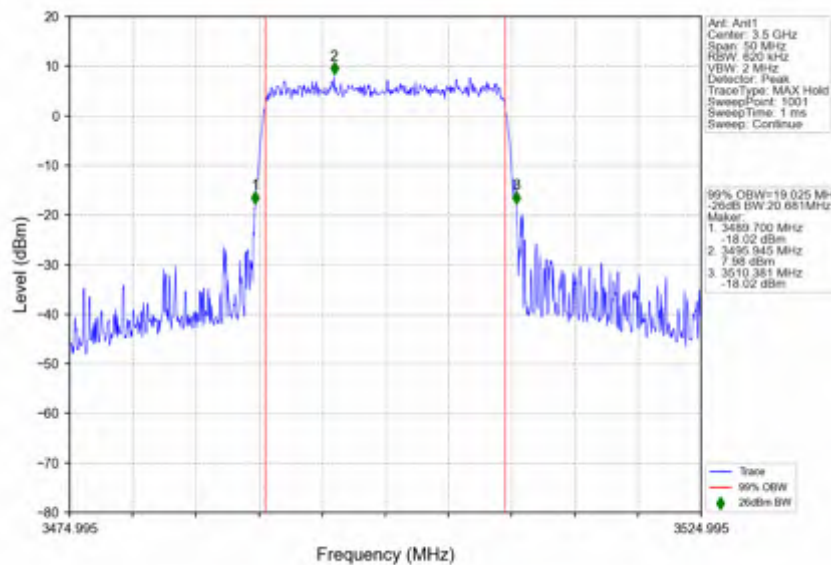
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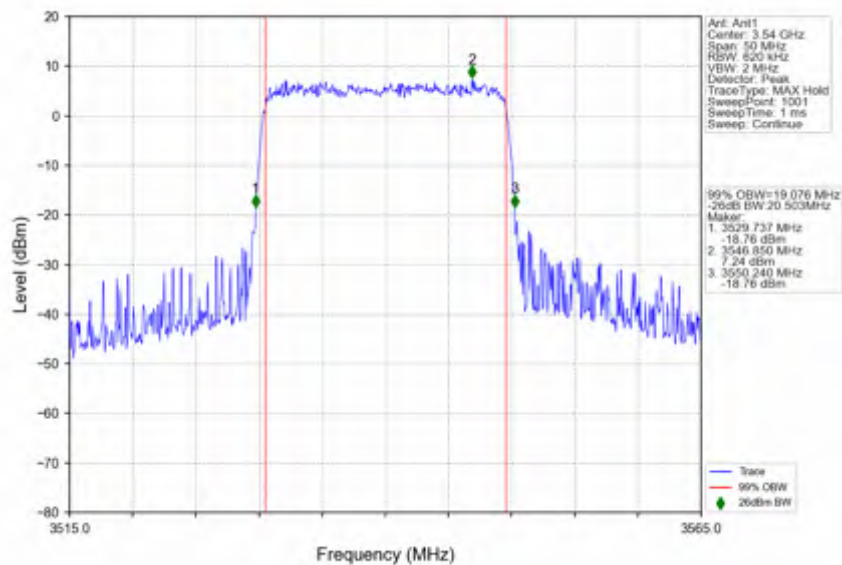
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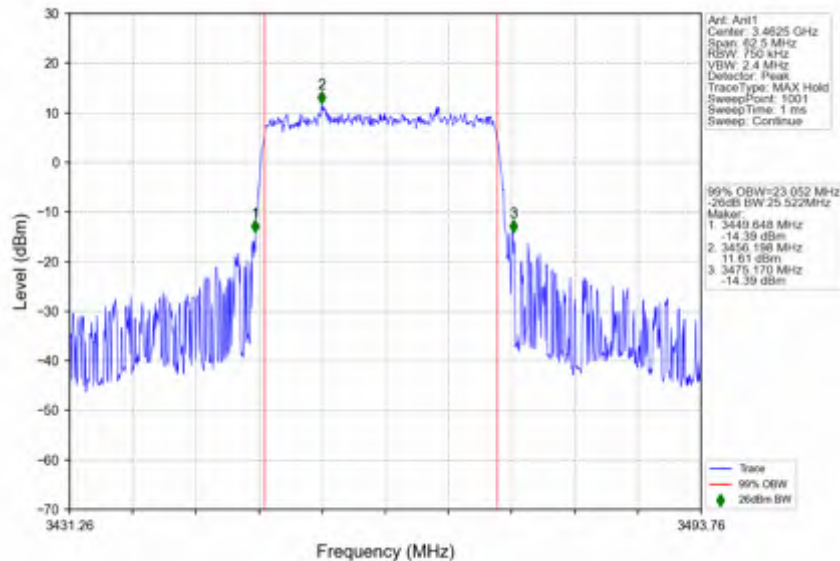
9.4 15k_SISO_25MHz_NTNV

9.4.1 Test Result

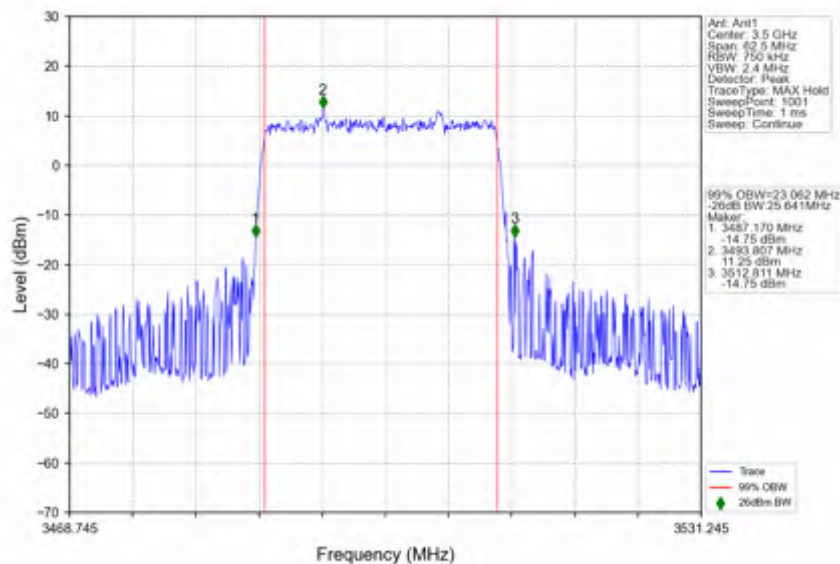
5G NR n78e SCS=15kHz SISO 25MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3462.51	Outer_Full	23.05	25.52	/	Pass
	3499.995	Outer_Full	23.06	25.64	/	Pass
	3537.495	Outer_Full	23.07	25.11	/	Pass
3462.51 3499.995 3537.495	3462.51	Outer_Full	23.06	25.84	/	Pass
	3499.995	Outer_Full	23.08	25.96	/	Pass
	3537.495	Outer_Full	23.12	25.95	/	Pass
DFT-s-OFDM 16 QAM	3462.51	Outer_Full	23.11	25.65	/	Pass
	3499.995	Outer_Full	23.00	24.77	/	Pass
	3537.495	Outer_Full	23.02	25.40	/	Pass
DFT-s-OFDM 64 QAM	3462.51	Outer_Full	23.05	24.75	/	Pass
	3499.995	Outer_Full	23.14	24.99	/	Pass
	3537.495	Outer_Full	23.06	25.19	/	Pass
DFT-s-OFDM 256 QAM	3462.51	Outer_Full	23.08	25.40	/	Pass
	3499.995	Outer_Full	23.11	24.94	/	Pass
	3537.495	Outer_Full	23.02	25.19	/	Pass
CP-OFDM QPSK	3462.51	Outer_Full	24.00	29.09	/	Pass
	3499.995	Outer_Full	23.96	31.07	/	Pass
	3537.495	Outer_Full	23.95	27.56	/	Pass
CP-OFDM 16 QAM	3462.51	Outer_Full	23.91	25.65	/	Pass
	3499.995	Outer_Full	23.92	27.43	/	Pass
	3537.495	Outer_Full	23.94	26.42	/	Pass
CP-OFDM 64 QAM	3462.51	Outer_Full	23.94	26.32	/	Pass
	3499.995	Outer_Full	23.94	26.61	/	Pass
	3537.495	Outer_Full	23.92	26.00	/	Pass
CP-OFDM 256 QAM	3462.51	Outer_Full	23.97	25.64	/	Pass
	3499.995	Outer_Full	23.99	25.61	/	Pass
	3537.495	Outer_Full	23.87	25.56	/	Pass

9.4.2 Test Graph

n78e_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM PI/2 BPSK_3462.51MHz_Outer_Full



n78e_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM PI/2 BPSK_3499.995MHz_Outer_Full



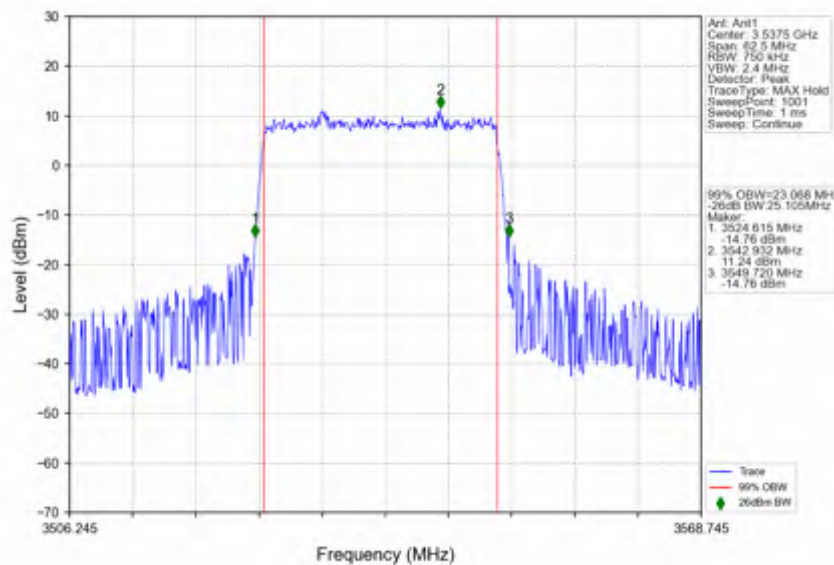
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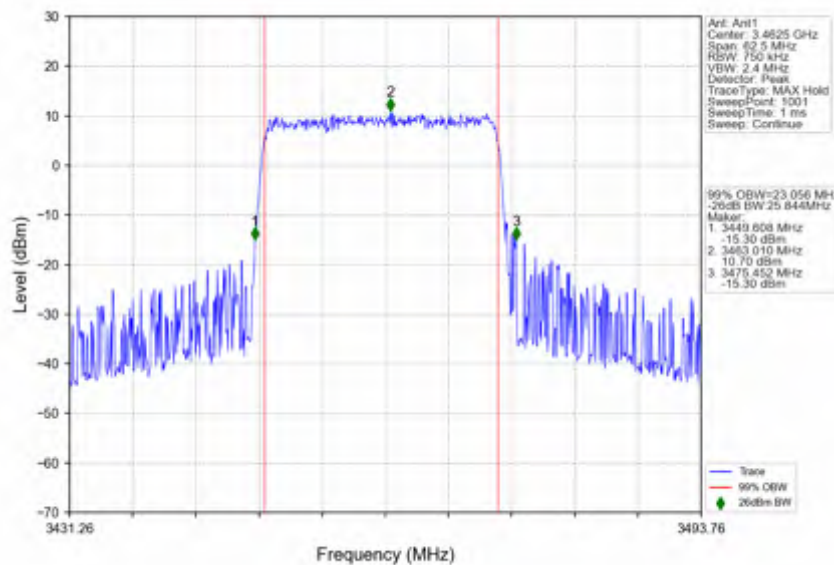
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n78e_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM_QPSK_3462.51MHz_Outer_Full



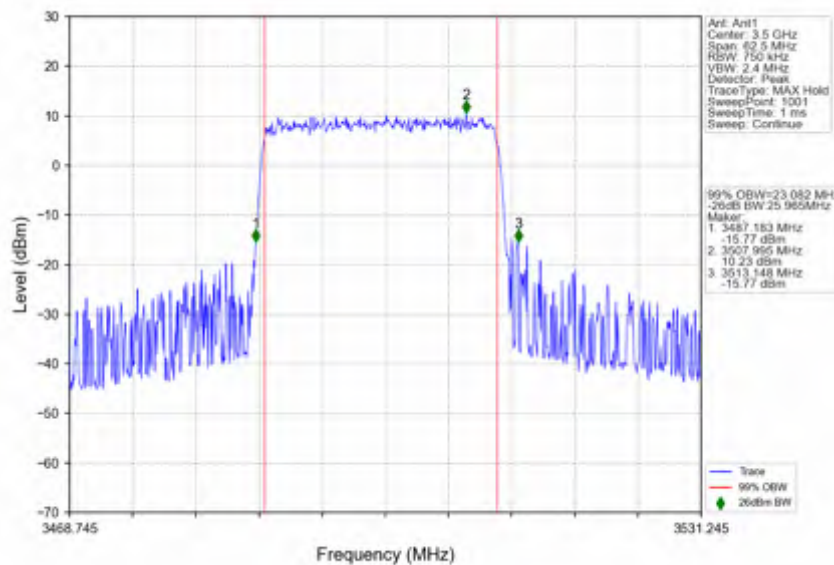
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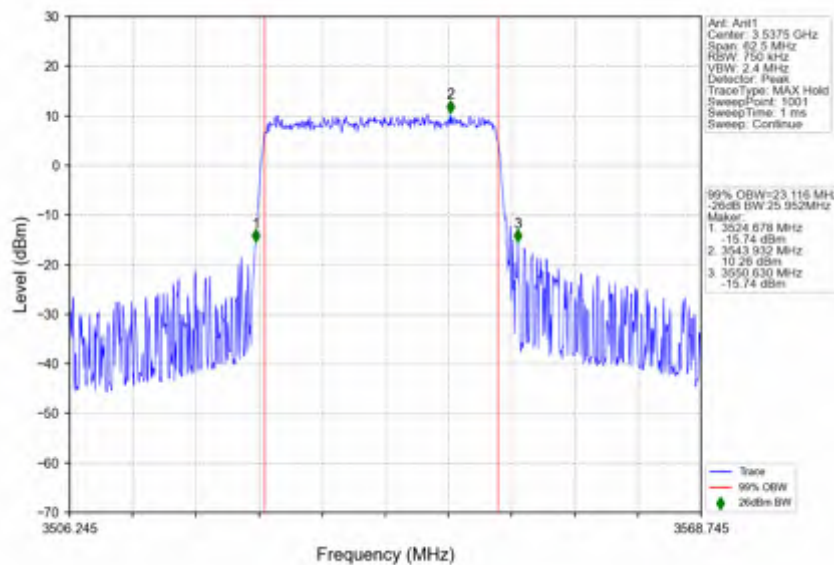
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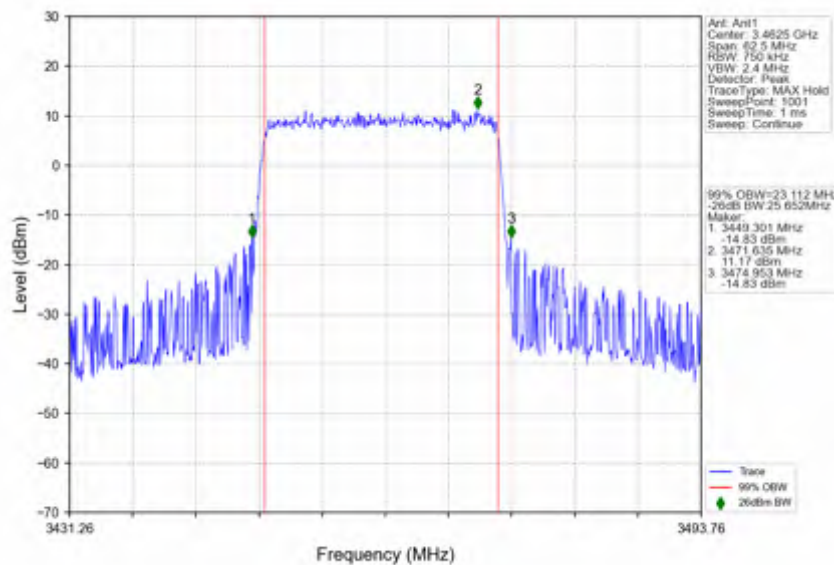
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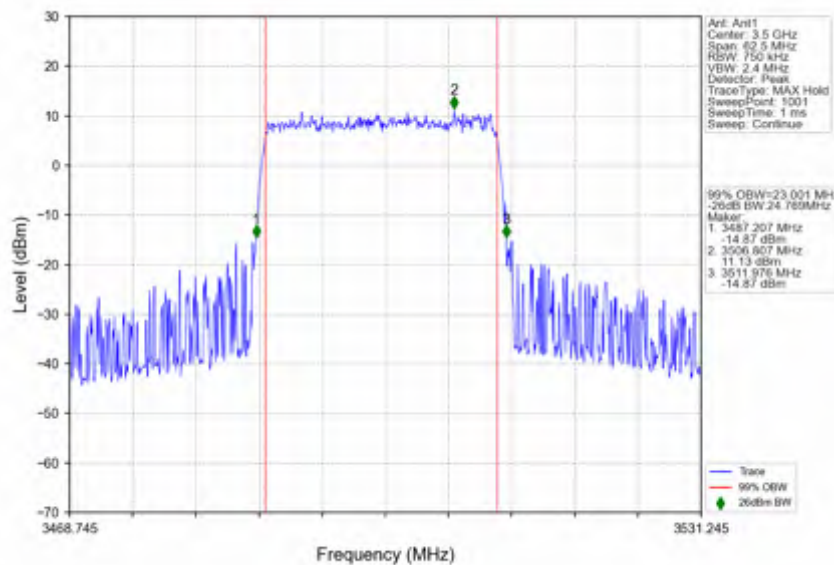
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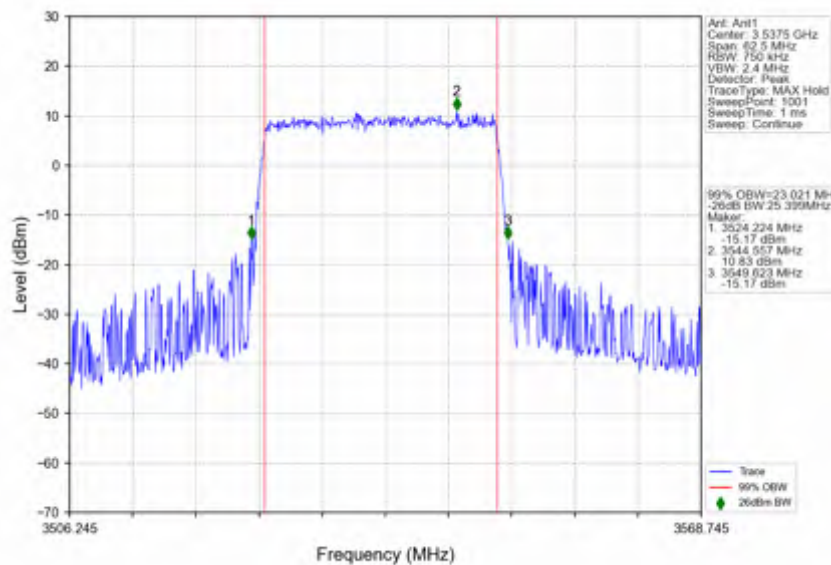
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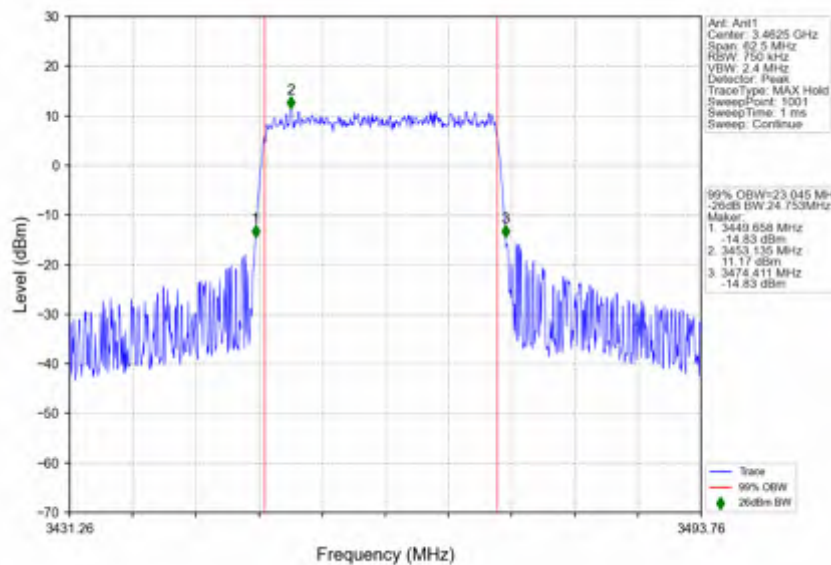
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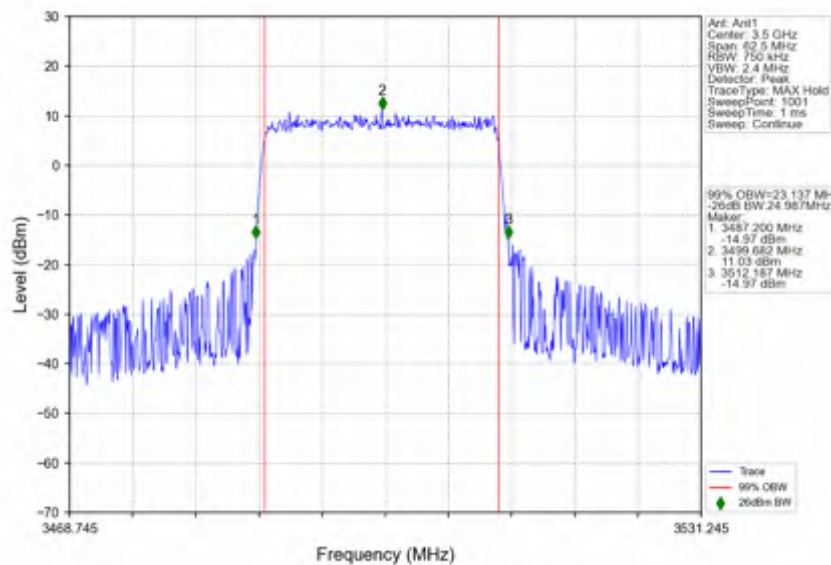
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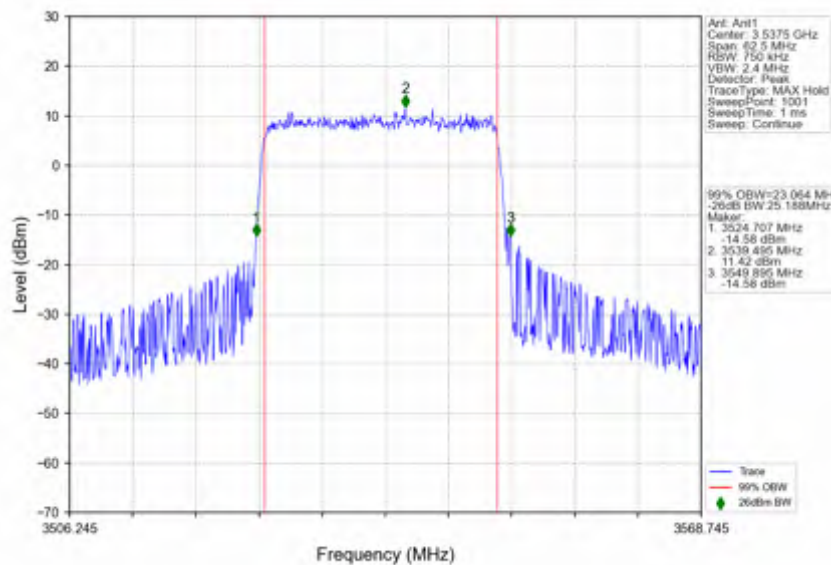
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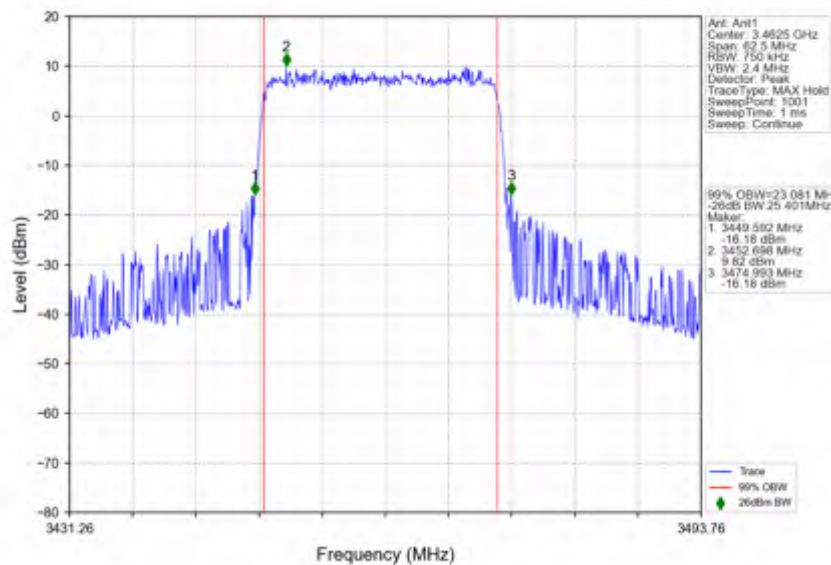


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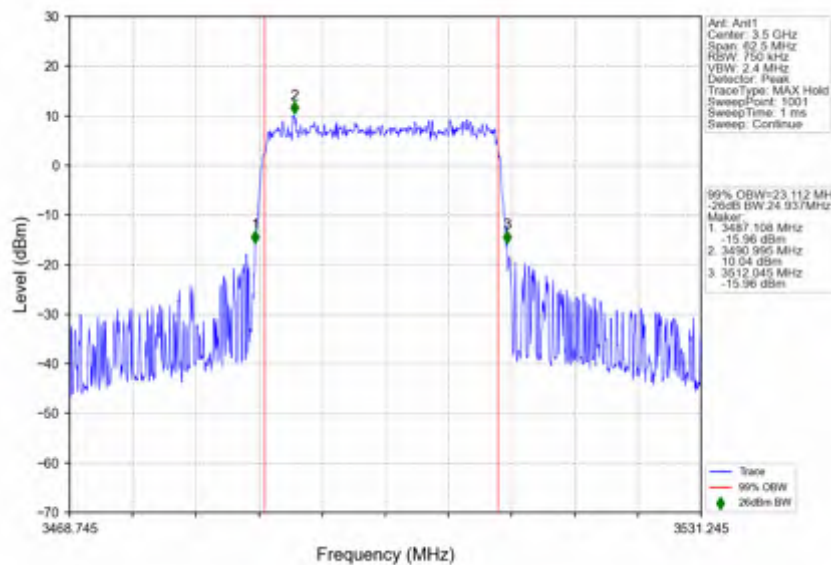
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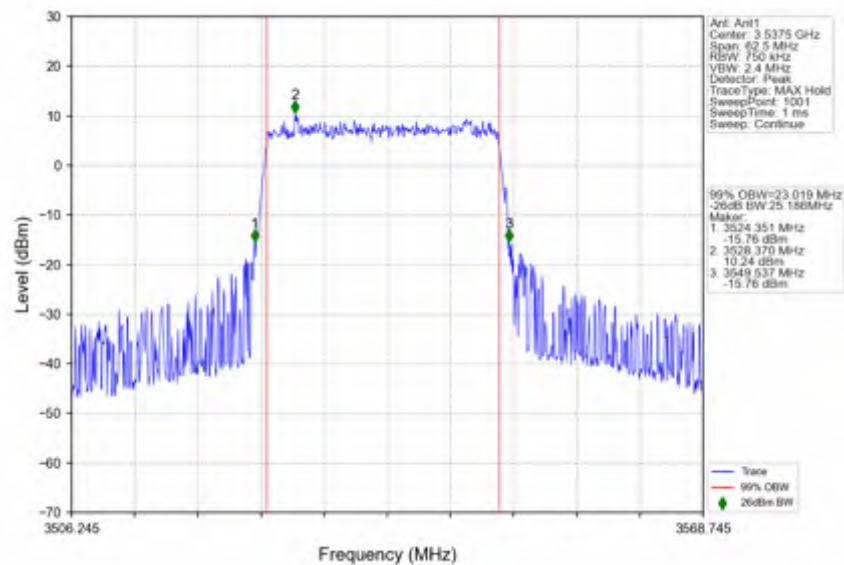


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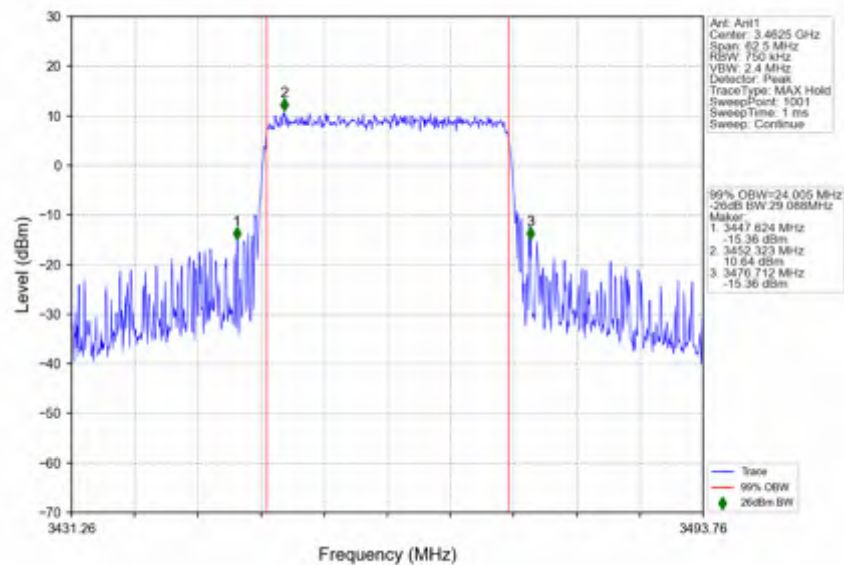
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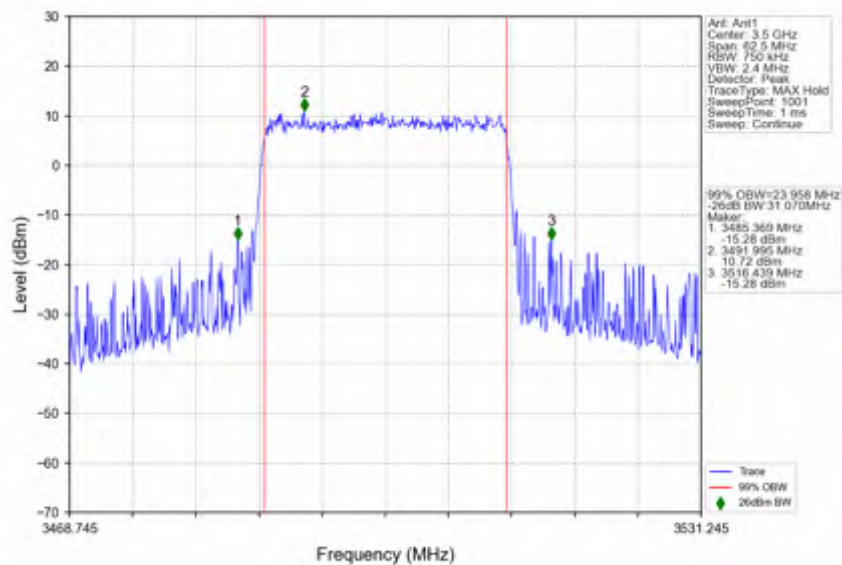
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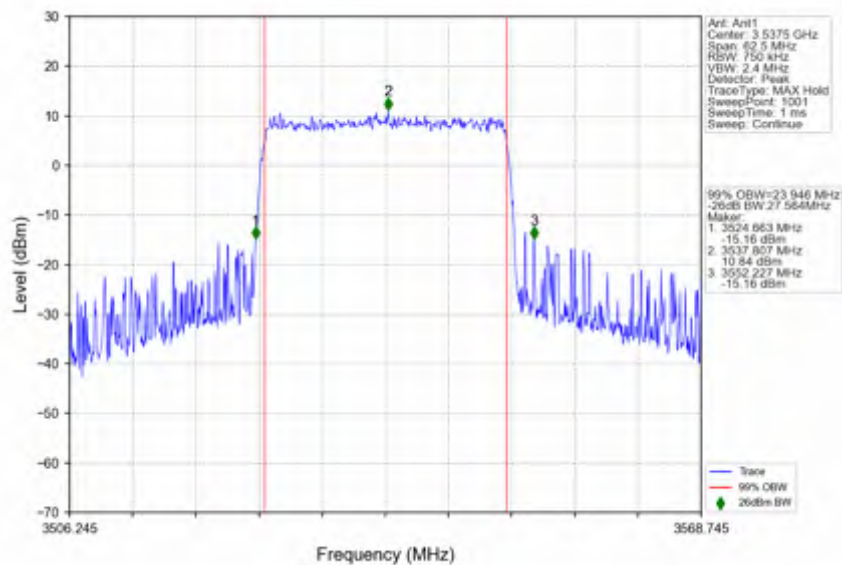
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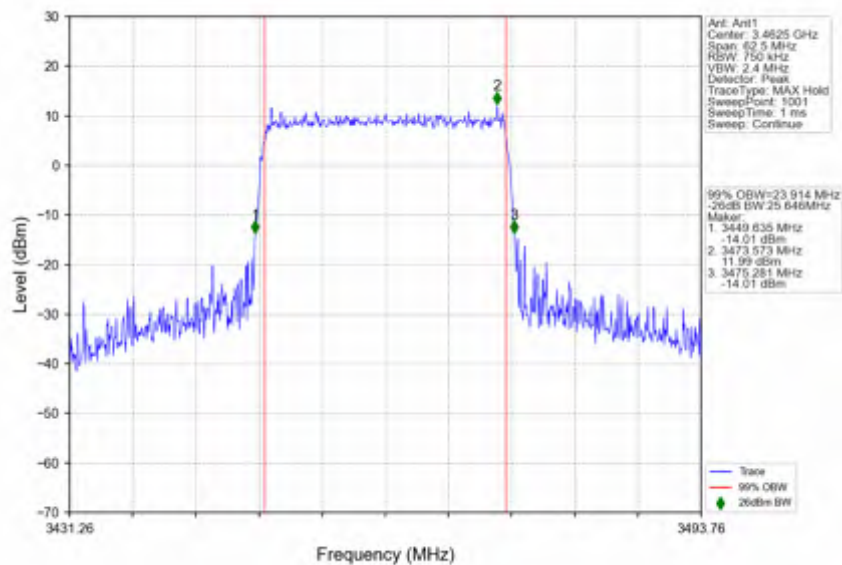


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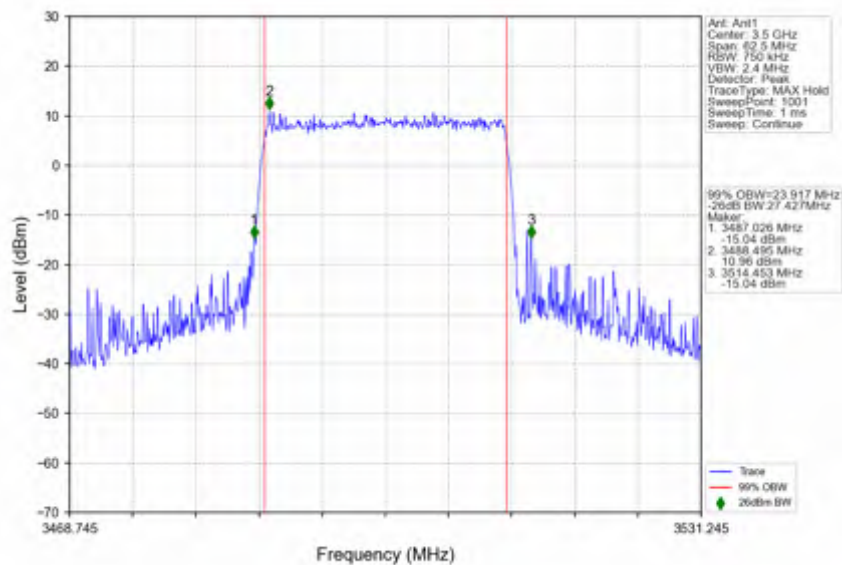
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n78e_15kHz_SISO_NTNV_25MHz_CP-OFDM_16_QAM_3462.51MHz_Outer_Full



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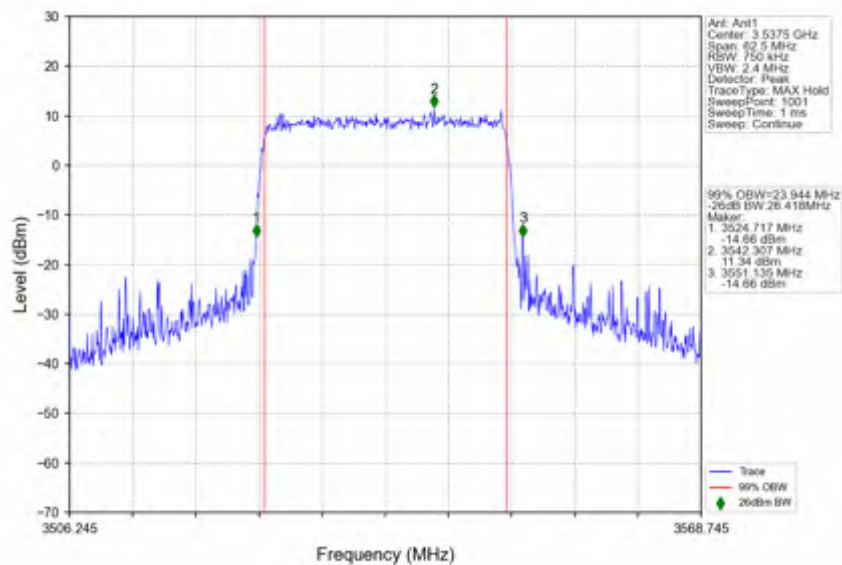
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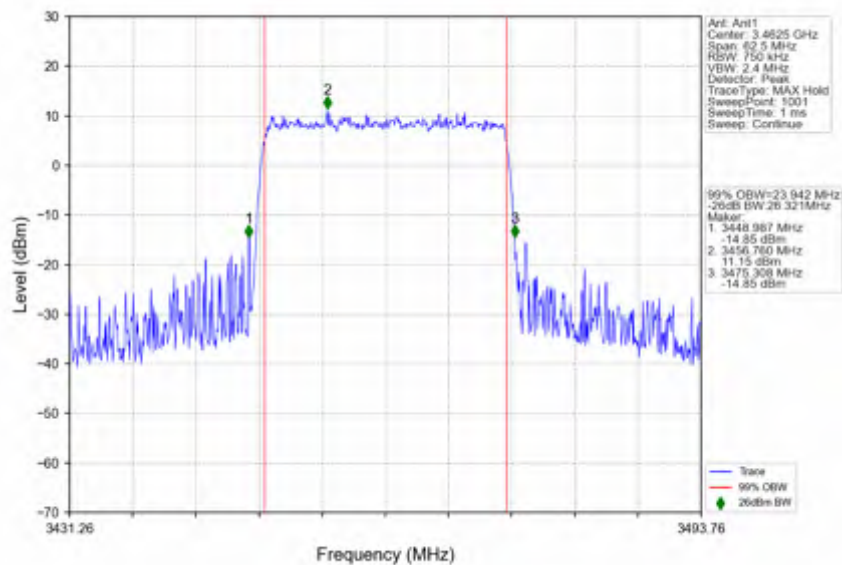
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n78e_15kHz_SISO_NTNV_25MHz_CP-OFDM_16_QAM_3537.495MHz_Outer_Full



n78e_15kHz_SISO_NTNV_25MHz_CP-OFDM_64_QAM_3462.51MHz_Outer_Full



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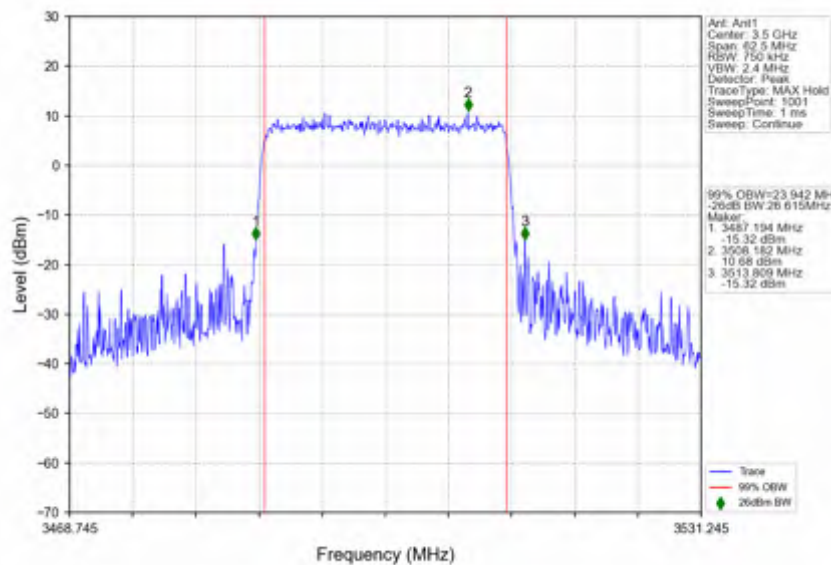
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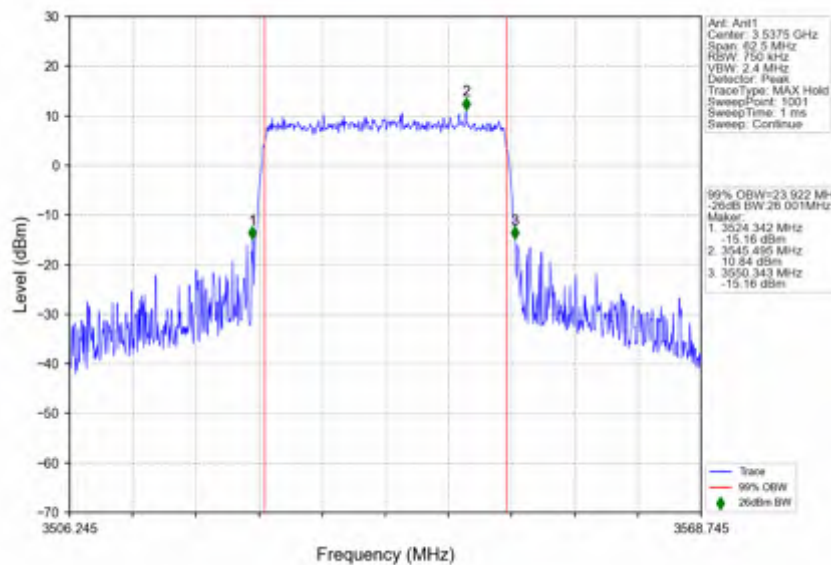
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n78e_15kHz_SISO_NTNV_25MHz_CP-OFDM_64_QAM_3499.995MHz_Outer_Full



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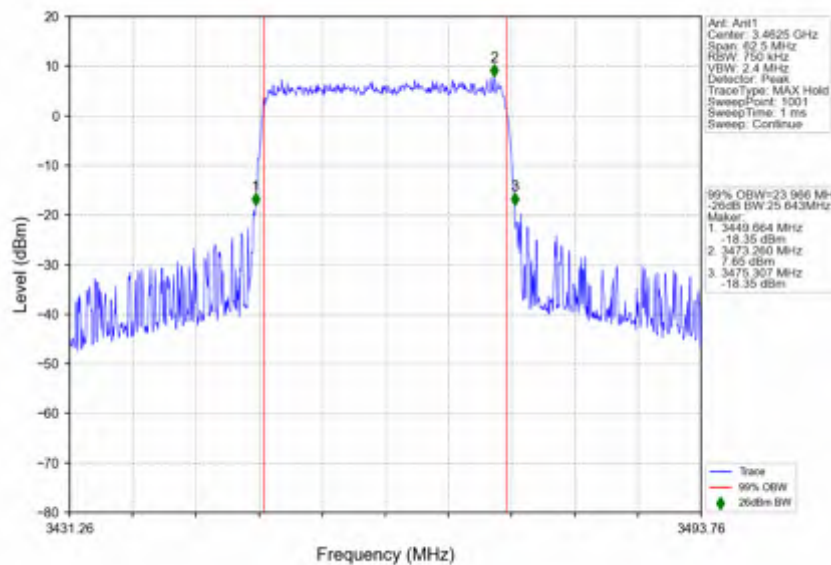
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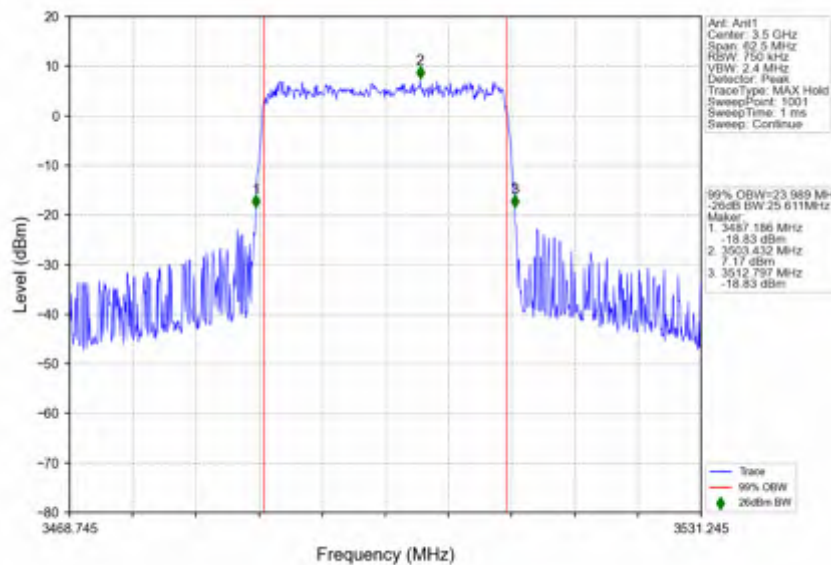
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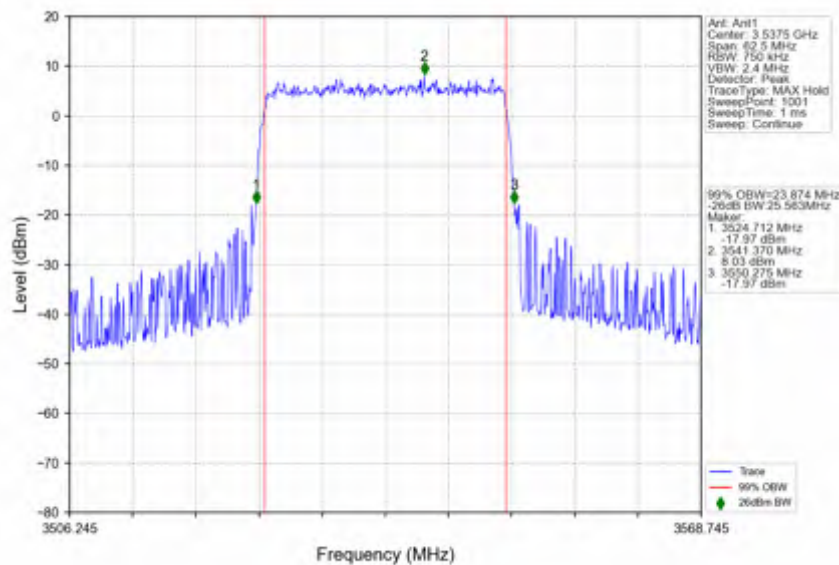
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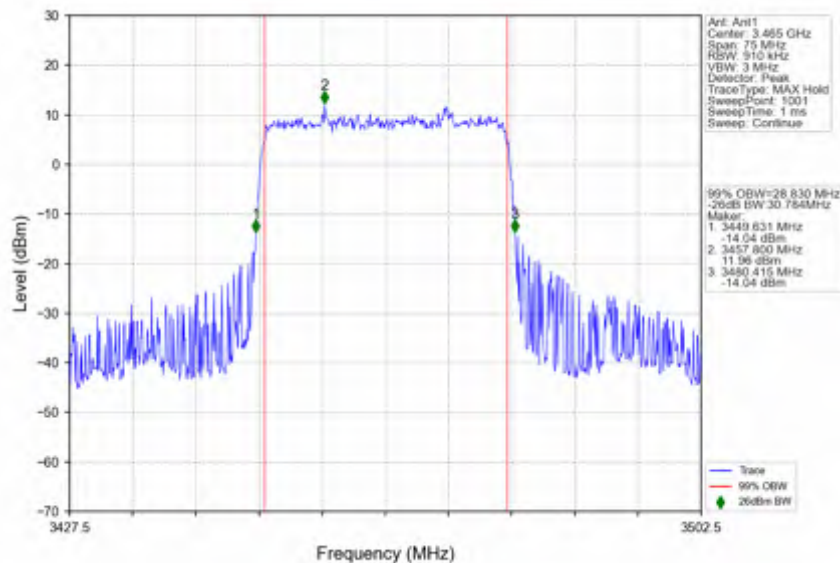
9.5 15k_SISO_30MHz_NTNV

9.5.1 Test Result

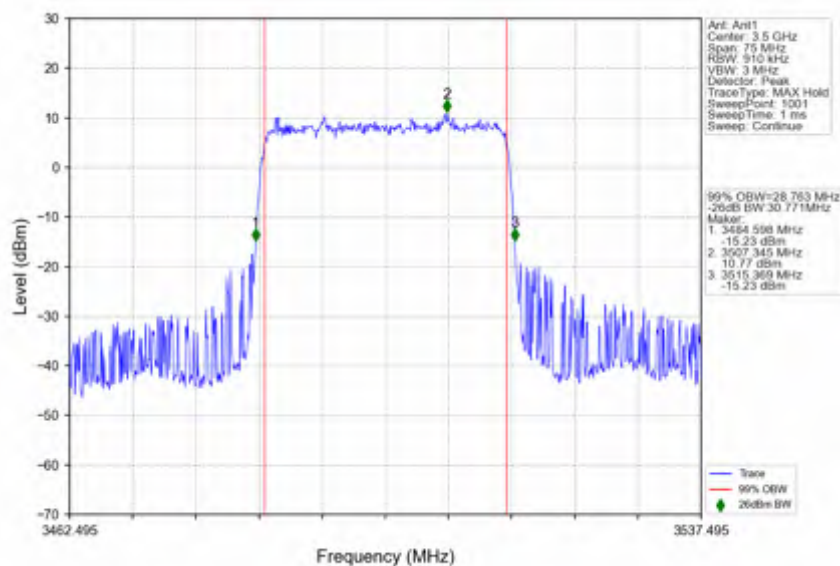
5G NR n78e SCS=15kHz SISO 30MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3465	Outer_Full	28.83	30.78	/	Pass
	3499.995	Outer_Full	28.76	30.77	/	Pass
	3534.99	Outer_Full	28.80	30.74	/	Pass
DFT-s-OFDM QPSK	3465	Outer_Full	28.79	30.84	/	Pass
	3499.995	Outer_Full	28.79	30.79	/	Pass
	3534.99	Outer_Full	28.84	31.20	/	Pass
DFT-s-OFDM 16 QAM	3465	Outer_Full	28.76	31.33	/	Pass
	3499.995	Outer_Full	28.79	30.81	/	Pass
	3534.99	Outer_Full	28.73	31.12	/	Pass
DFT-s-OFDM 64 QAM	3465	Outer_Full	28.75	30.84	/	Pass
	3499.995	Outer_Full	28.72	30.76	/	Pass
	3534.99	Outer_Full	28.70	30.70	/	Pass
DFT-s-OFDM 256 QAM	3465	Outer_Full	28.74	30.76	/	Pass
	3499.995	Outer_Full	28.83	31.20	/	Pass
	3534.99	Outer_Full	28.82	31.12	/	Pass
CP-OFDM QPSK	3465	Outer_Full	28.81	31.08	/	Pass
	3499.995	Outer_Full	28.82	32.72	/	Pass
	3534.99	Outer_Full	28.79	30.79	/	Pass
CP-OFDM 16 QAM	3465	Outer_Full	28.89	30.96	/	Pass
	3499.995	Outer_Full	28.81	30.88	/	Pass
	3534.99	Outer_Full	28.84	31.05	/	Pass
CP-OFDM 64 QAM	3465	Outer_Full	28.76	30.98	/	Pass
	3499.995	Outer_Full	28.76	30.78	/	Pass
	3534.99	Outer_Full	28.80	31.52	/	Pass
CP-OFDM 256 QAM	3465	Outer_Full	28.80	30.75	/	Pass
	3499.995	Outer_Full	28.85	30.80	/	Pass
	3534.99	Outer_Full	28.86	30.86	/	Pass

9.5.2 Test Graph

n78e_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM_PI/2_BPSK_3465MHz_Outer_Full



n78e_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM_PI/2_BPSK_3499.995MHz_Outer_Full



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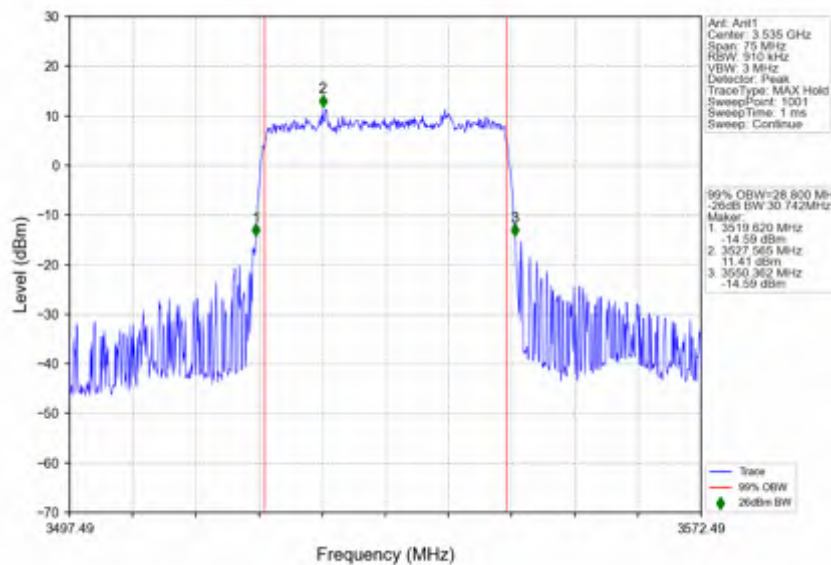
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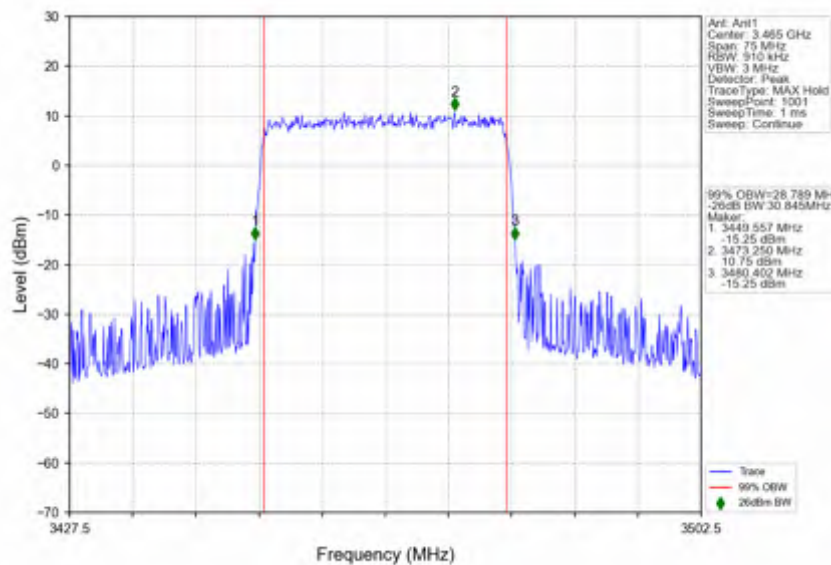
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n78e_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM QPSK_3465MHz_Outer_Full



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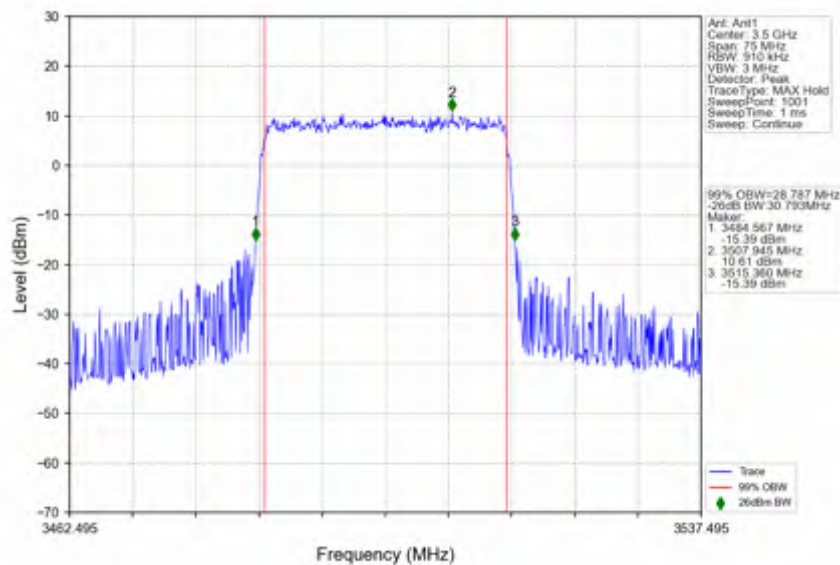
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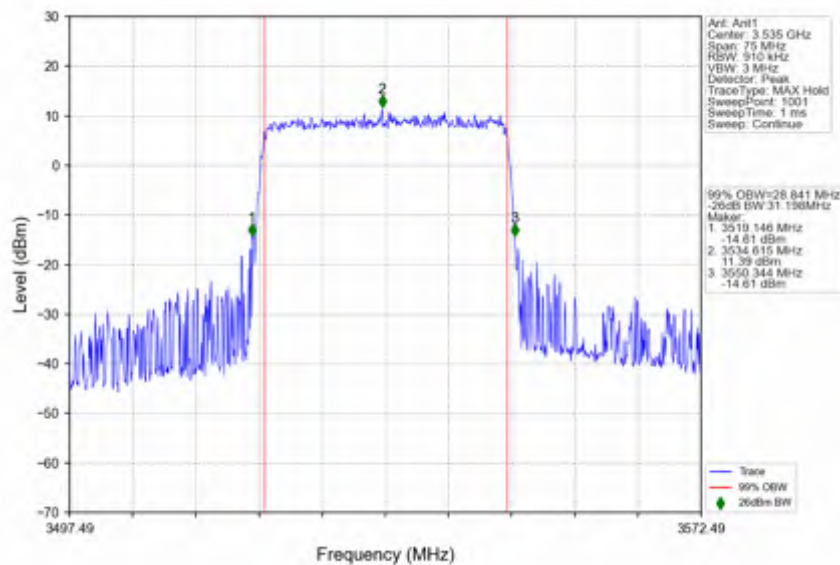
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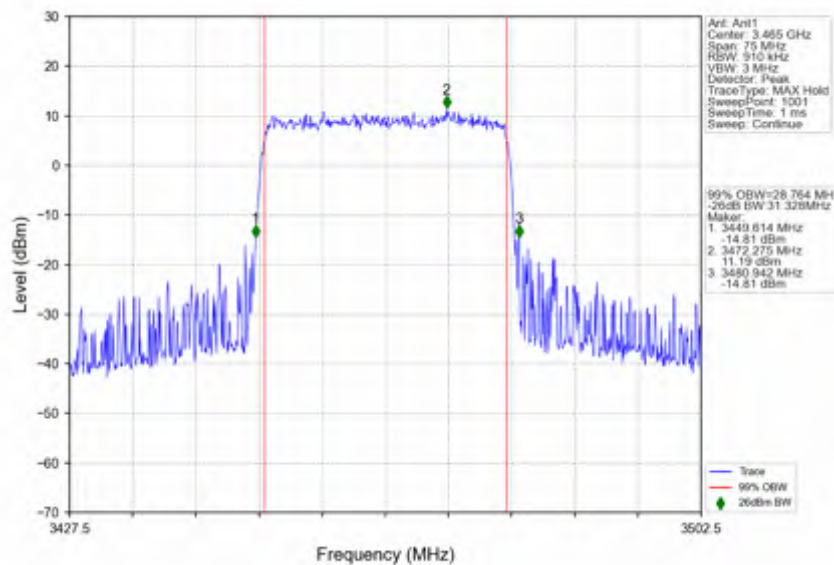
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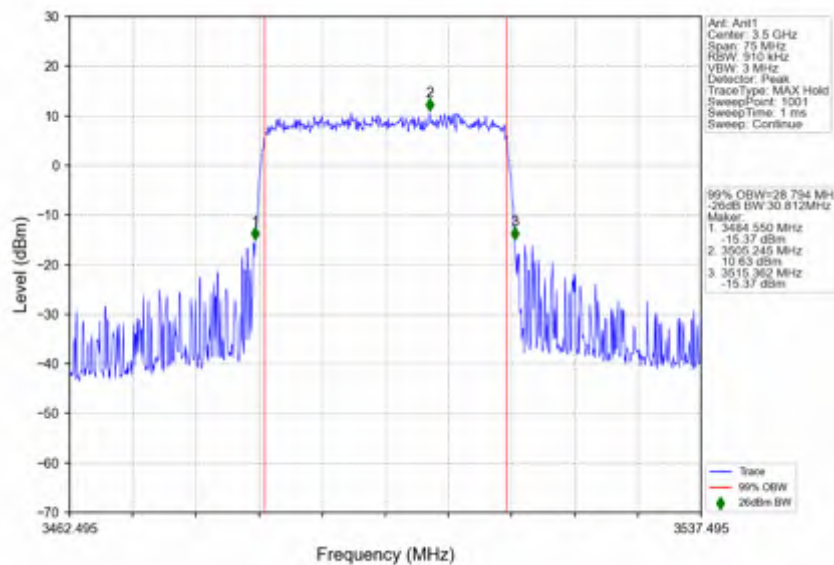
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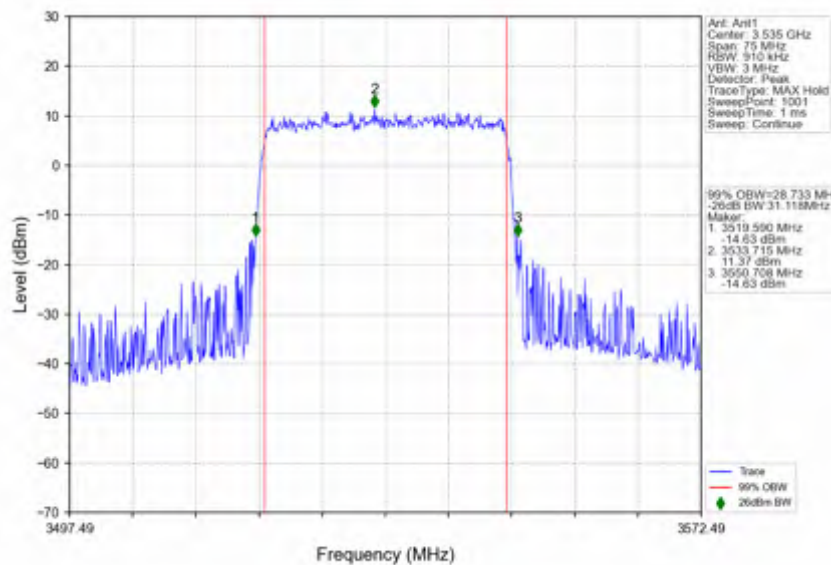
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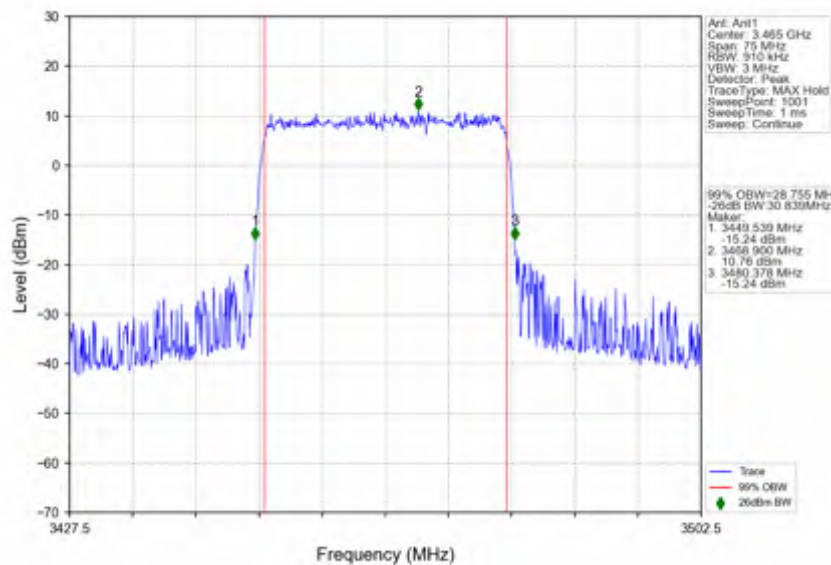
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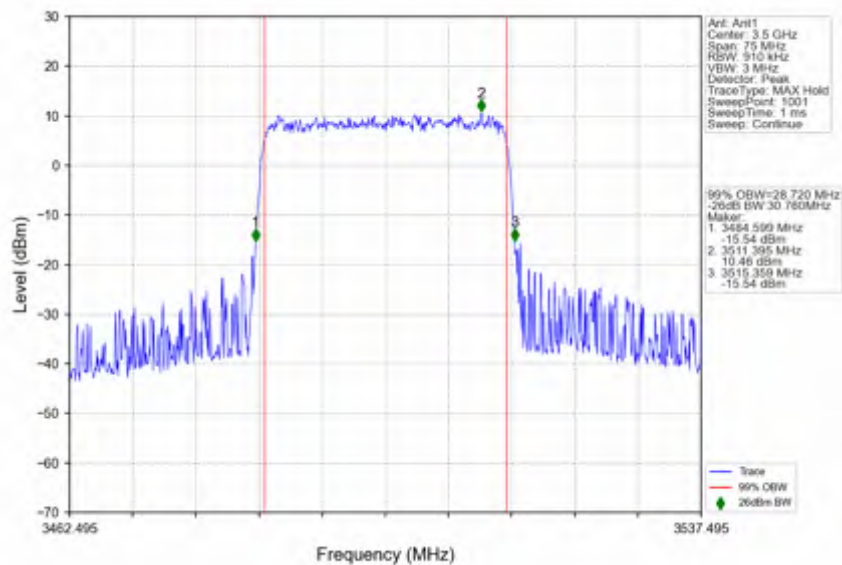
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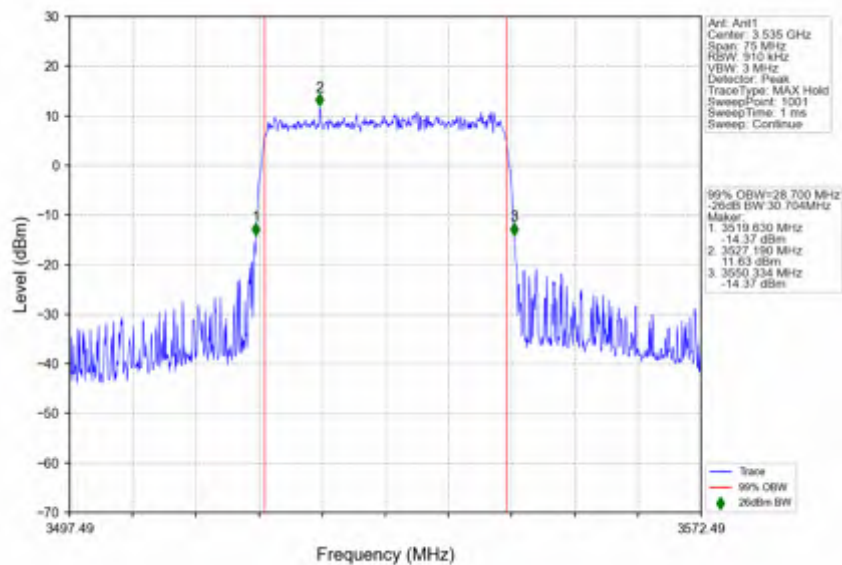
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n78e_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM_64_QAM_3499.995MHz_Outer_Full



n78e_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM_64_QAM_3534.99MHz_Outer_Full



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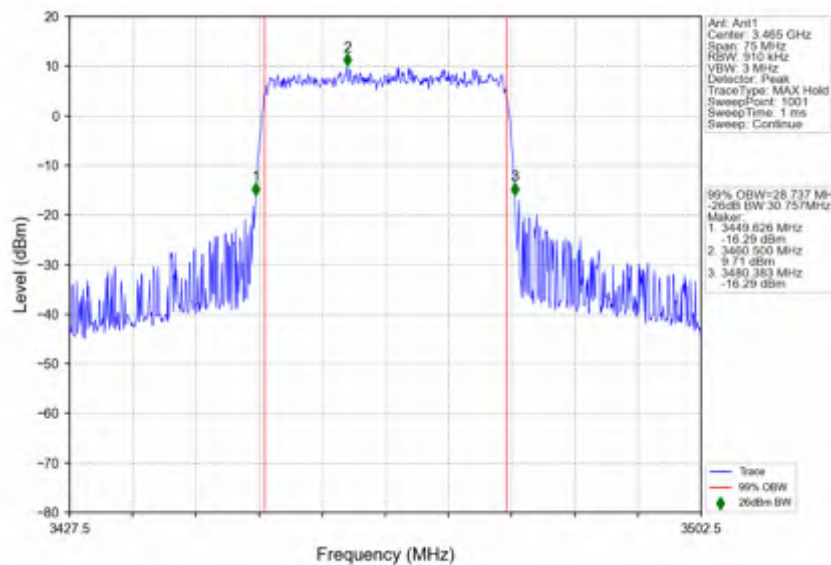
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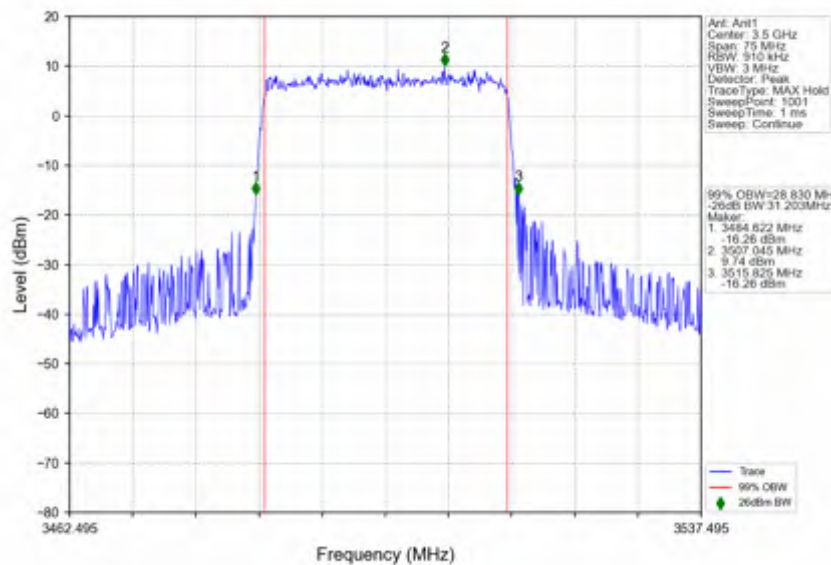
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n78e_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM_256_QAM_3465MHz_Outer_Full



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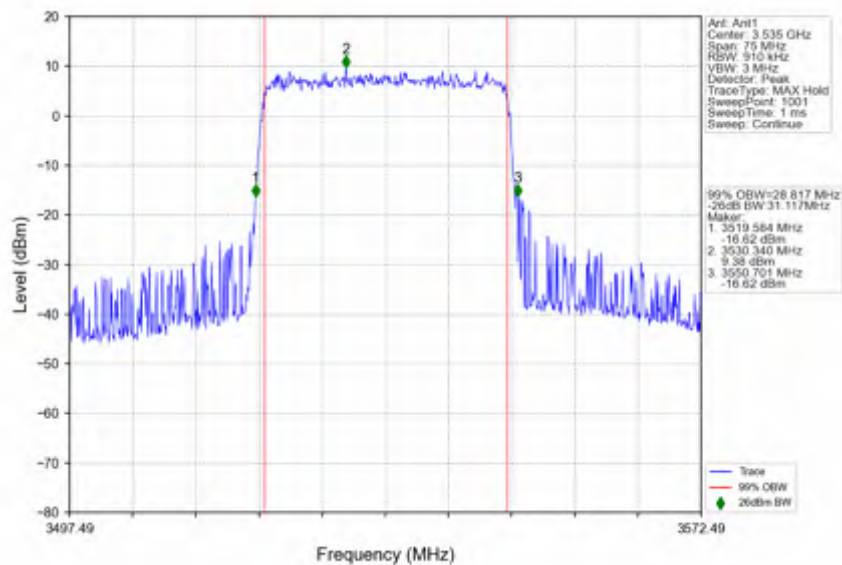
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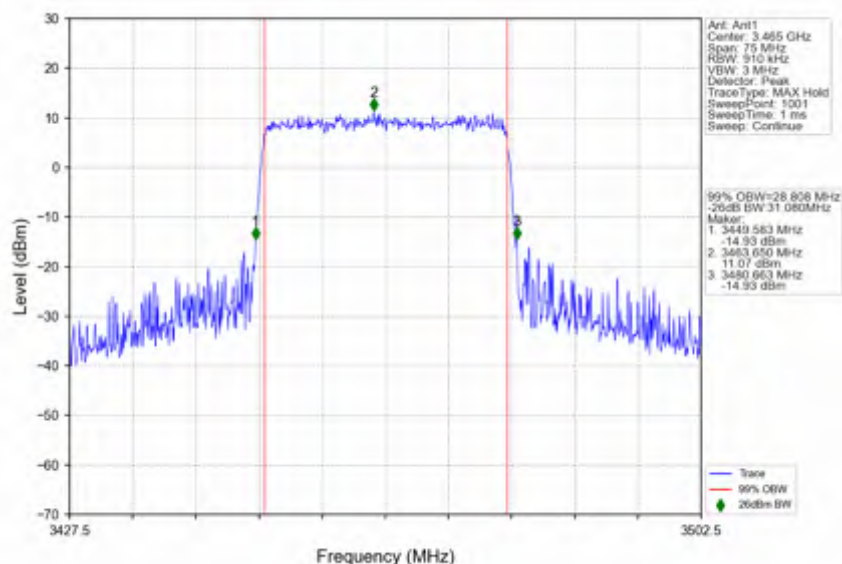
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n78e_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM_256_QAM_3534.99MHz_Outer_Full



n78e_15kHz_SISO_NTNV_30MHz_CP-OFDM_QPSK_3465MHz_Outer_Full



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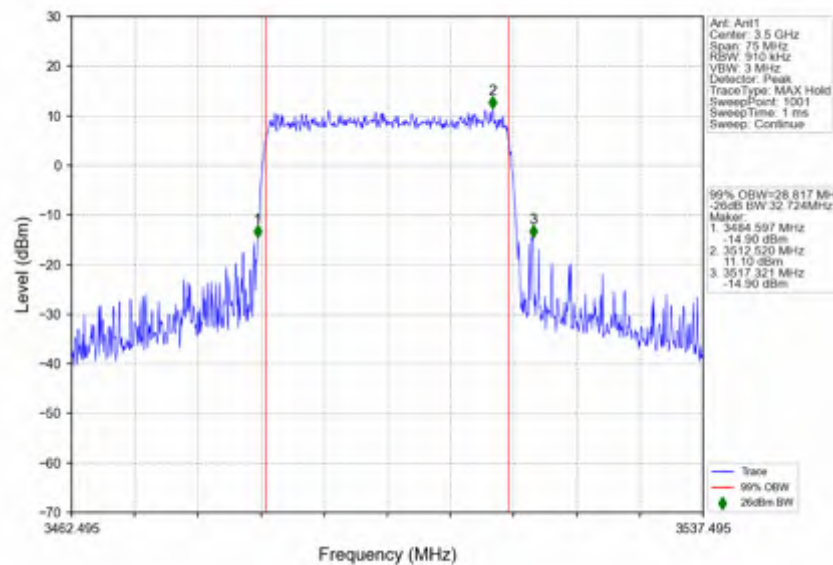
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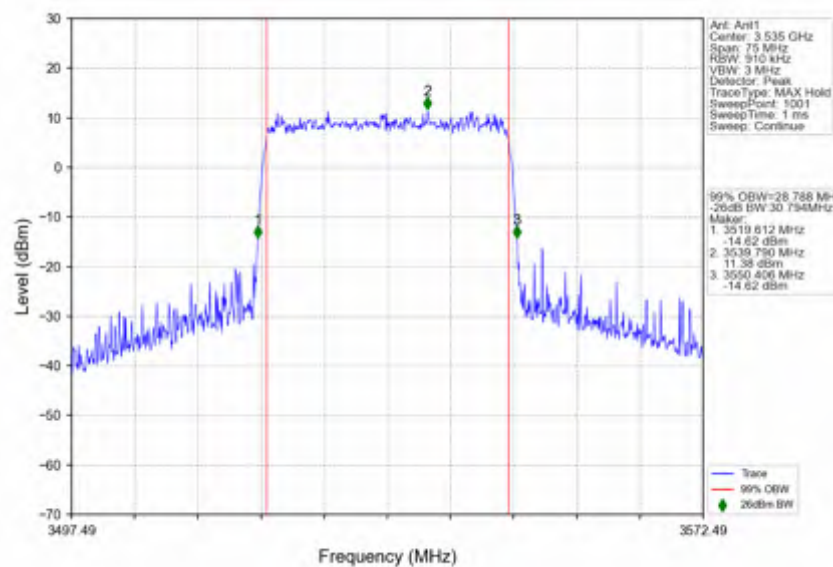
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n78e_15kHz_SISO_NTNV_30MHz_CP-OFDM QPSK_3499.995MHz_Outer_Full



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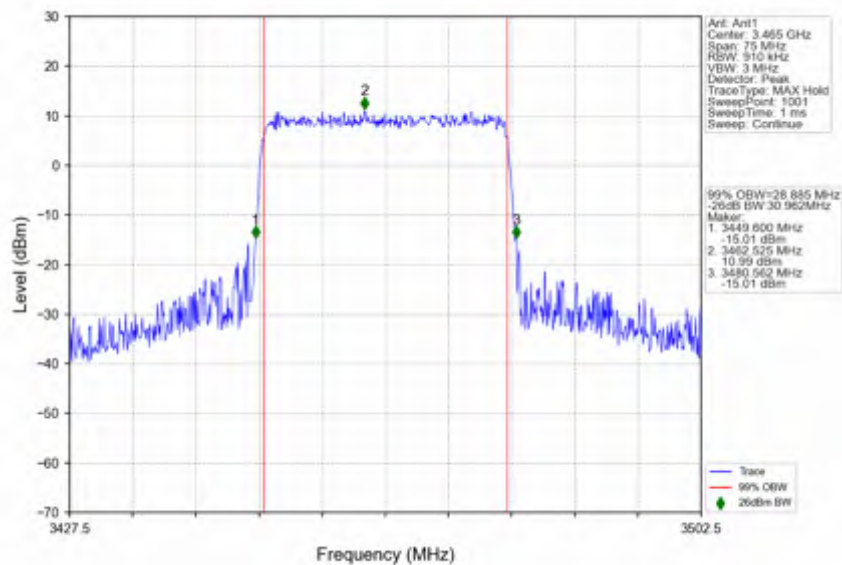
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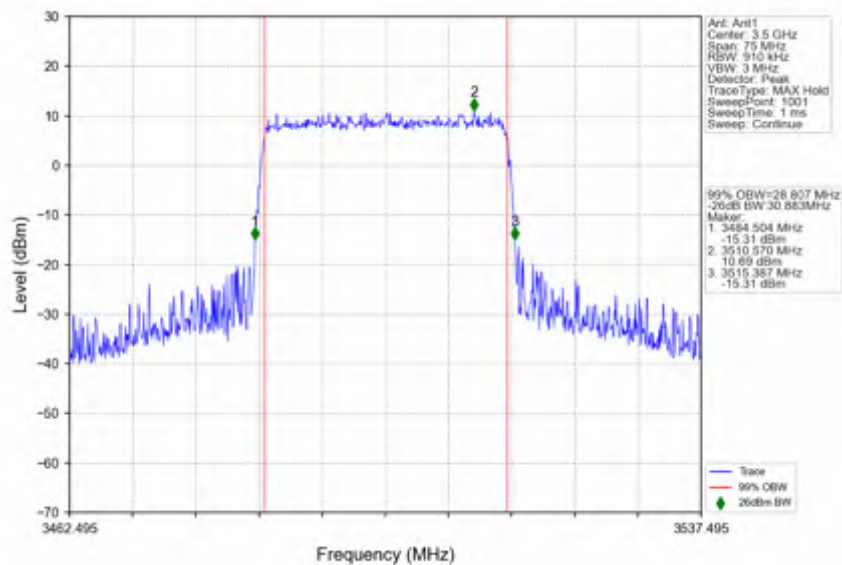
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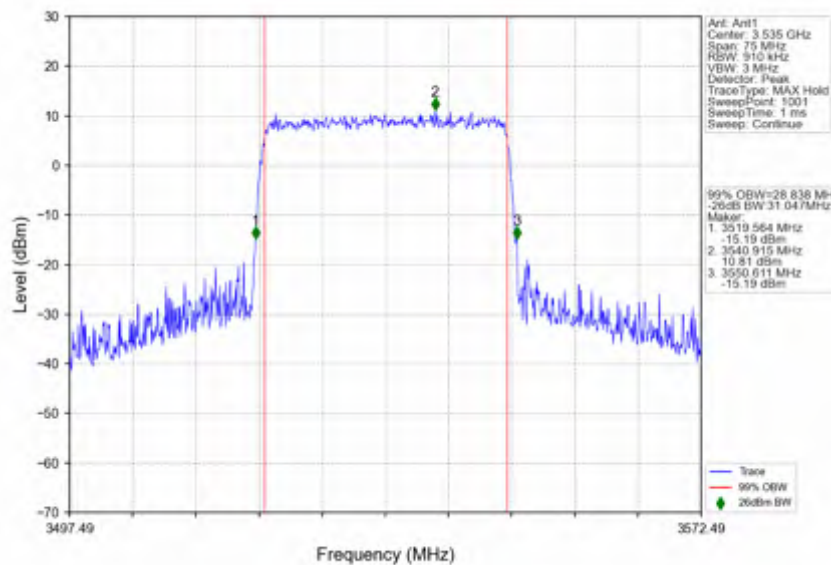
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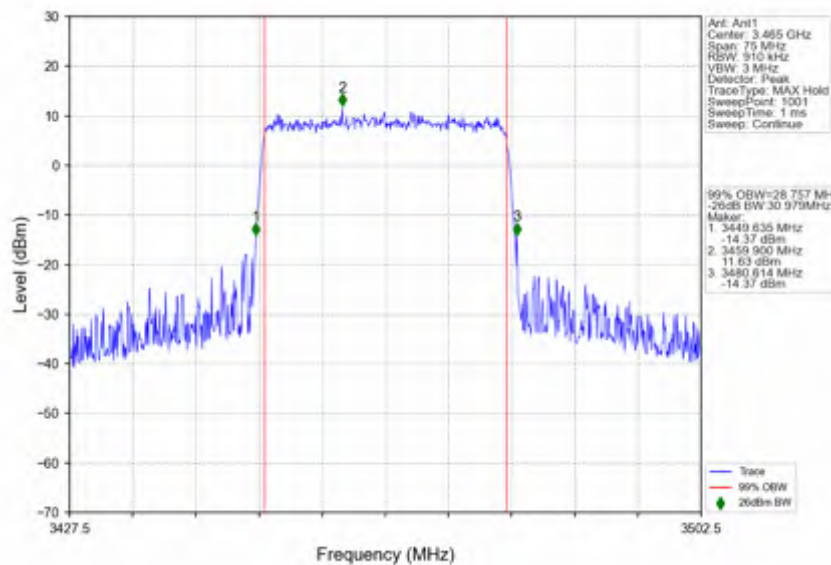
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n78e_15kHz_SISO_NTNV_30MHz_CP-OFDM 16 QAM 3534.99MHz_Outer_Full



n78e_15kHz_SISO_NTNV_30MHz_CP-OFDM 64 QAM 3465MHz_Outer_Full



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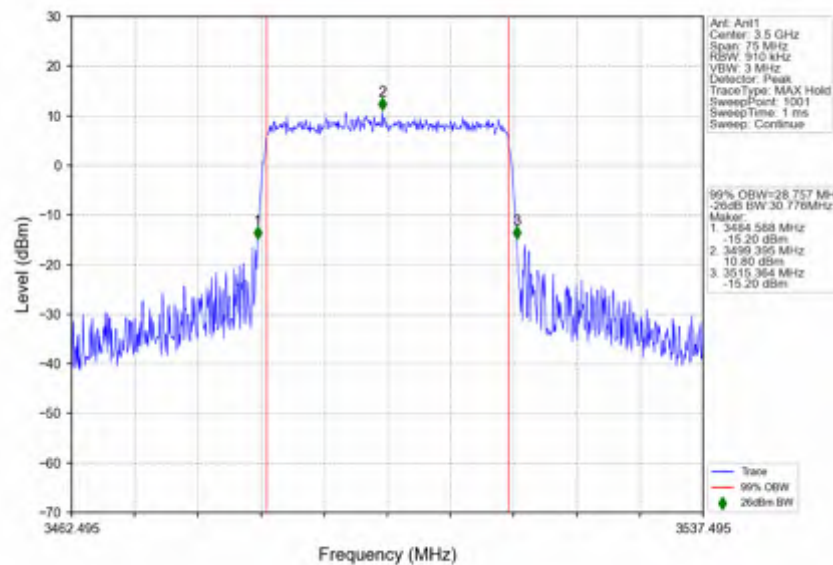
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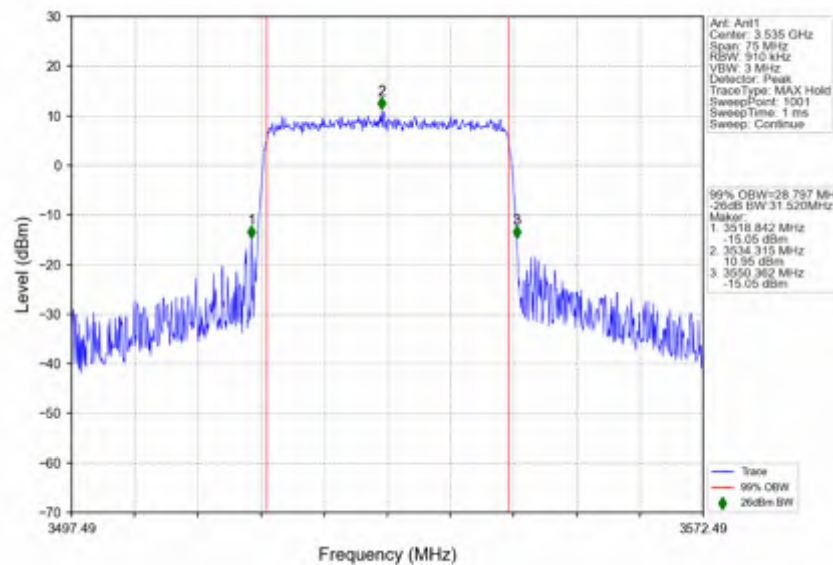
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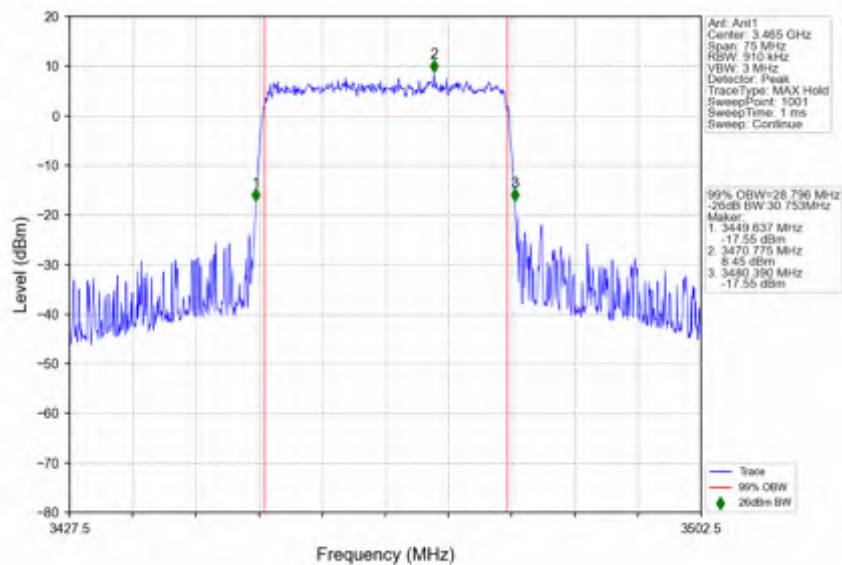
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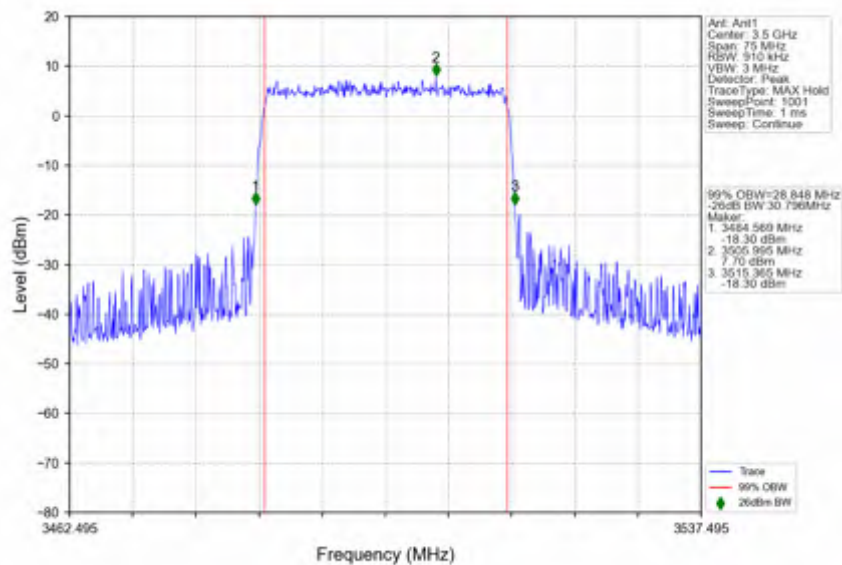
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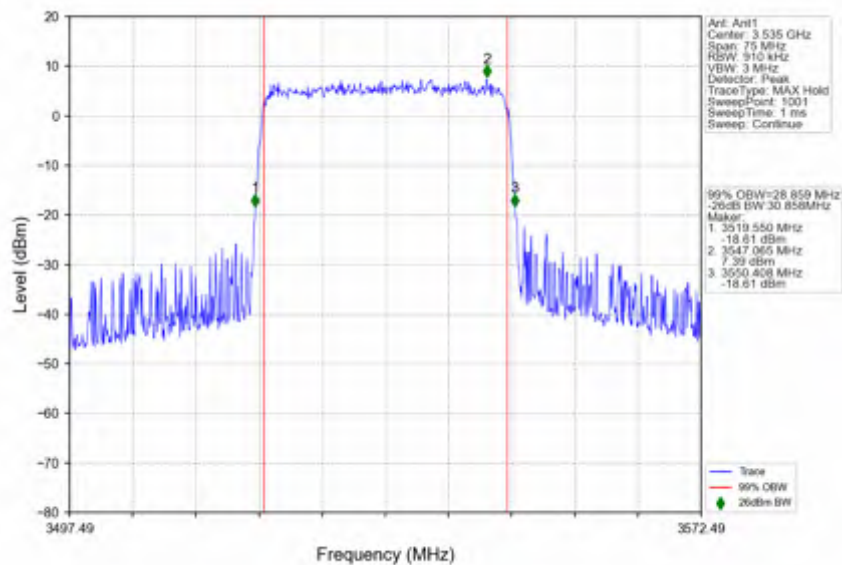
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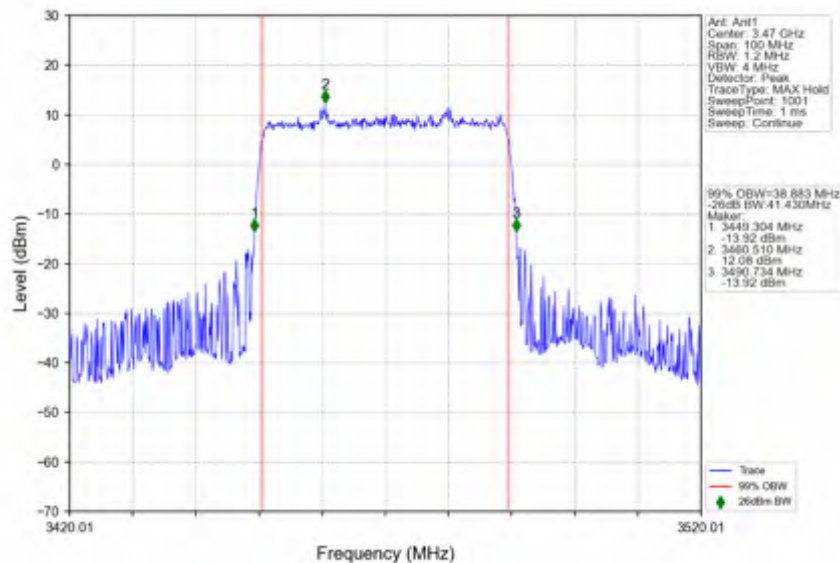
9.6 15k_SISO_40MHz_NTNV

9.6.1 Test Result

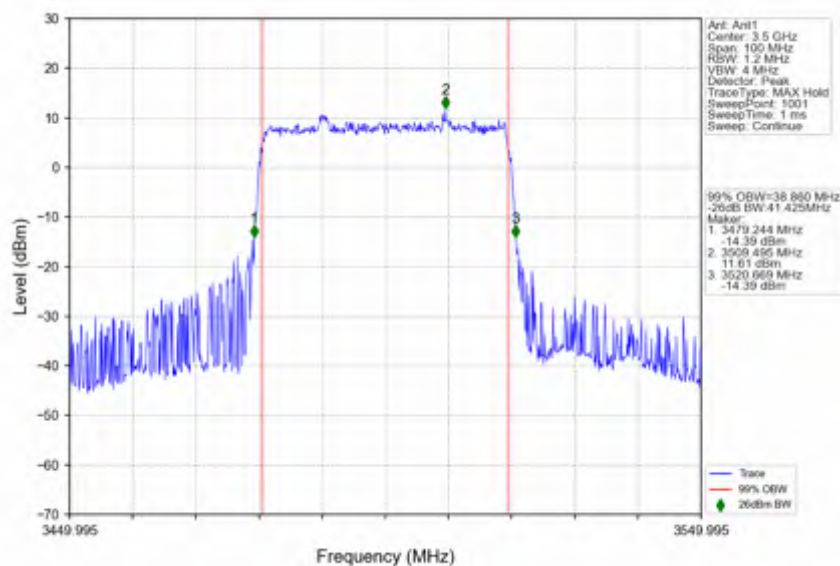
5G NR n78e SCS=15kHz SISO 40MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3470.01	Outer_Full	38.88	41.43	/	Pass
	3499.995	Outer_Full	38.86	41.42	/	Pass
	3529.995	Outer_Full	39.00	41.84	/	Pass
DFT-s-OFDM QPSK	3470.01	Outer_Full	38.94	41.47	/	Pass
	3499.995	Outer_Full	38.97	41.69	/	Pass
	3529.995	Outer_Full	39.00	42.18	/	Pass
DFT-s-OFDM 16 QAM	3470.01	Outer_Full	38.90	42.52	/	Pass
	3499.995	Outer_Full	38.86	41.51	/	Pass
	3529.995	Outer_Full	38.90	41.81	/	Pass
DFT-s-OFDM 64 QAM	3470.01	Outer_Full	38.86	41.76	/	Pass
	3499.995	Outer_Full	38.91	42.15	/	Pass
	3529.995	Outer_Full	38.85	42.09	/	Pass
DFT-s-OFDM 256 QAM	3470.01	Outer_Full	38.87	42.54	/	Pass
	3499.995	Outer_Full	38.92	42.00	/	Pass
	3529.995	Outer_Full	38.88	42.46	/	Pass
CP-OFDM QPSK	3470.01	Outer_Full	38.85	41.58	/	Pass
	3499.995	Outer_Full	38.84	41.74	/	Pass
	3529.995	Outer_Full	38.87	41.75	/	Pass
CP-OFDM 16 QAM	3470.01	Outer_Full	38.85	41.57	/	Pass
	3499.995	Outer_Full	38.78	42.31	/	Pass
	3529.995	Outer_Full	38.81	41.36	/	Pass
CP-OFDM 64 QAM	3470.01	Outer_Full	38.79	41.47	/	Pass
	3499.995	Outer_Full	38.75	41.57	/	Pass
	3529.995	Outer_Full	38.78	43.03	/	Pass
CP-OFDM 256 QAM	3470.01	Outer_Full	38.84	43.58	/	Pass
	3499.995	Outer_Full	38.97	41.50	/	Pass
	3529.995	Outer_Full	38.79	41.39	/	Pass

9.6.2 Test Graph

n78e_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM PI/2 BPSK_3470.01MHz_Outer_Full



n78e_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM PI/2 BPSK_3499.995MHz_Outer_Full



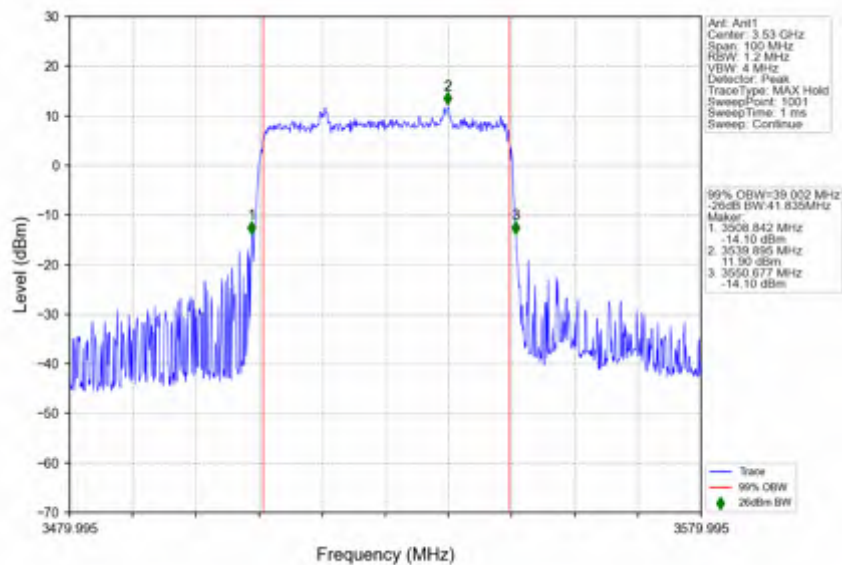
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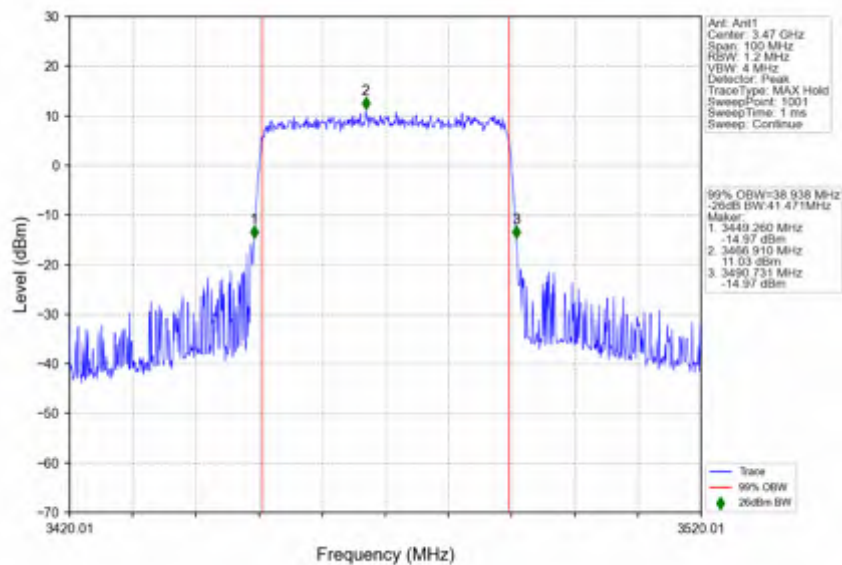
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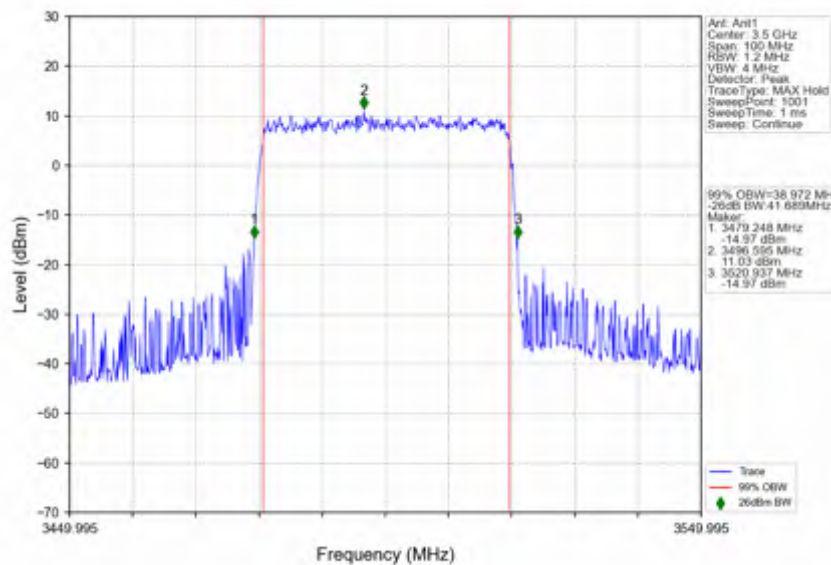
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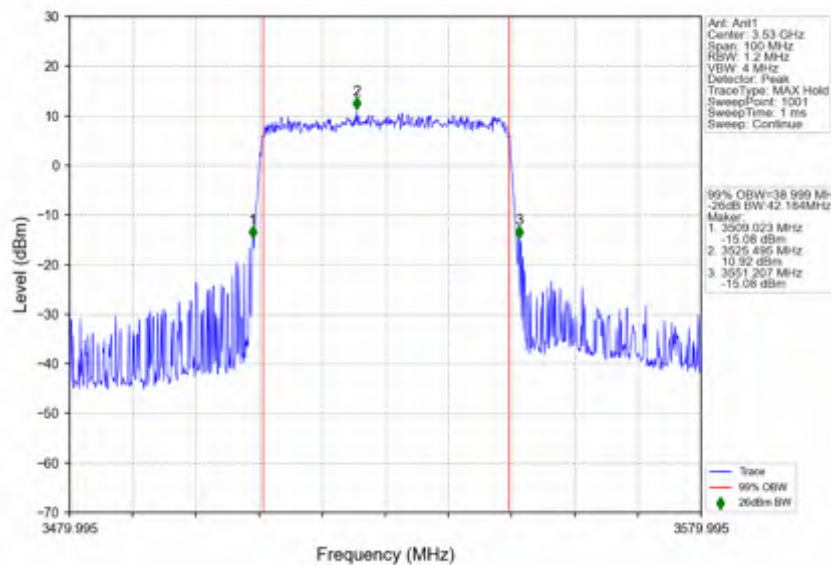
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n78e_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM QPSK_3499.995MHz_Outer_Full



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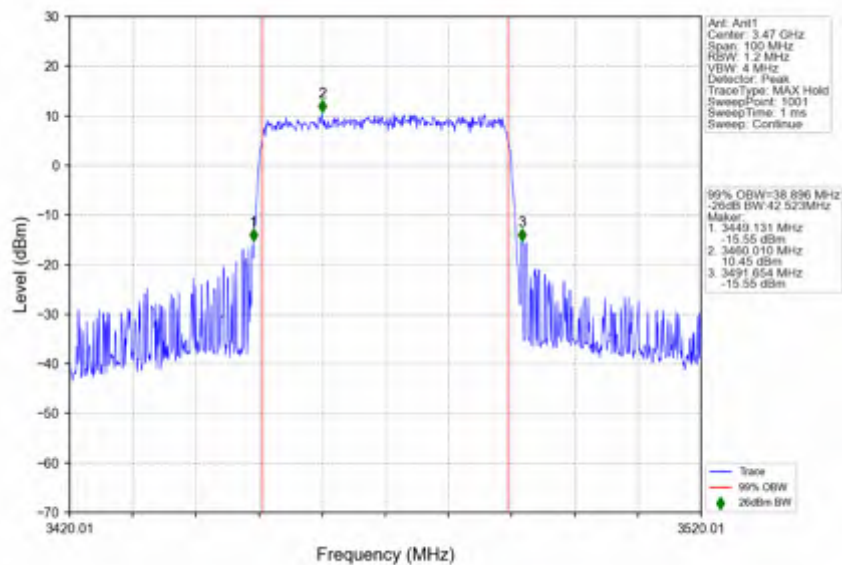
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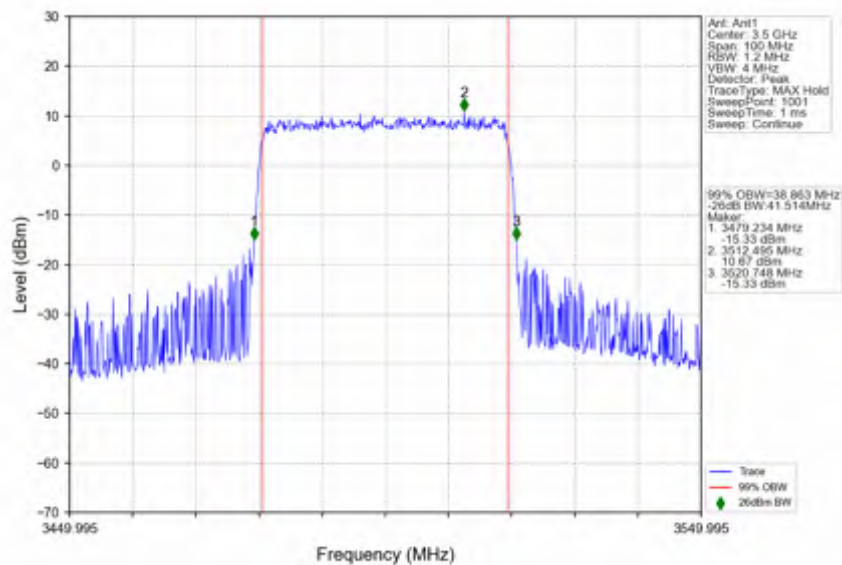
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n78e_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM_16_QAM_3470.01MHz_Outer_Full



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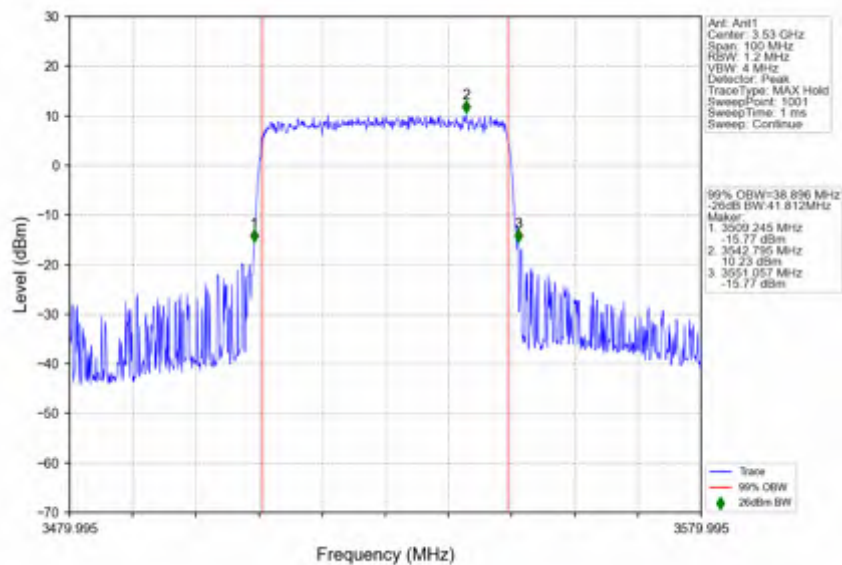
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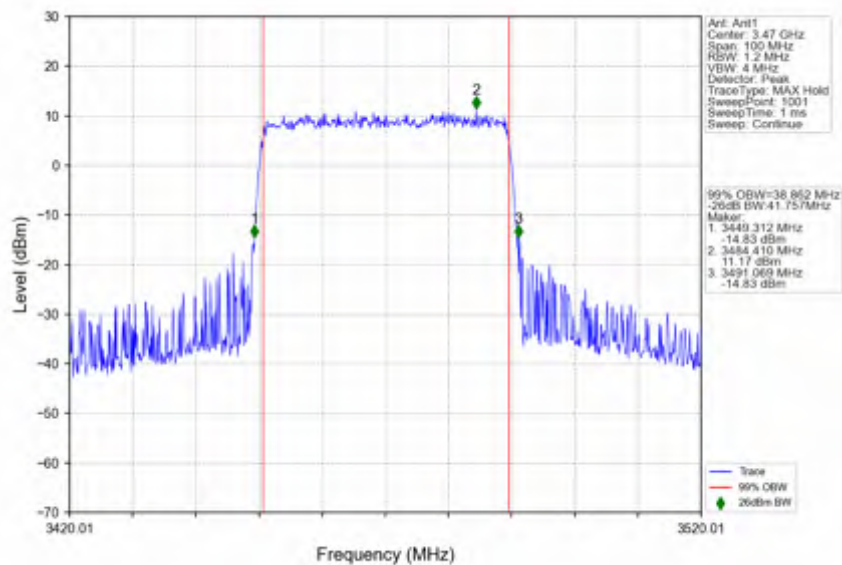
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n78e_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM 16 QAM_3529.995MHz_Outer_Full



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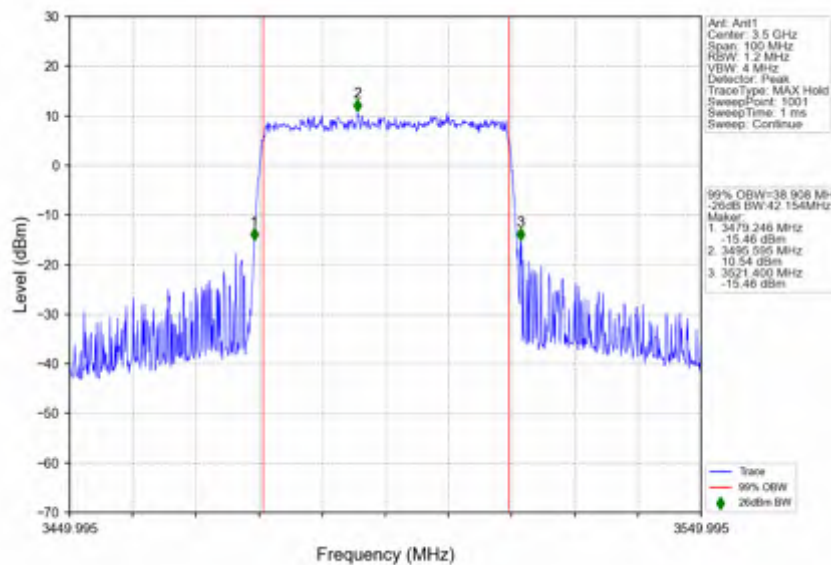
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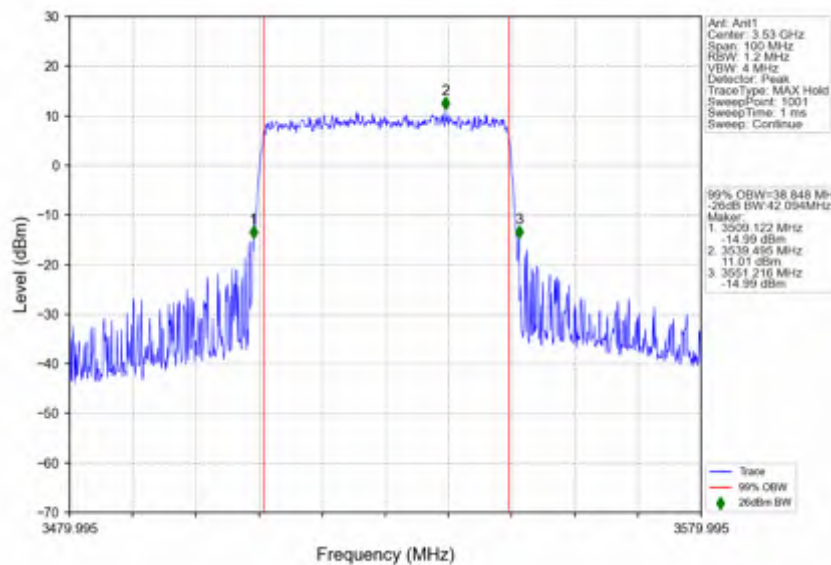
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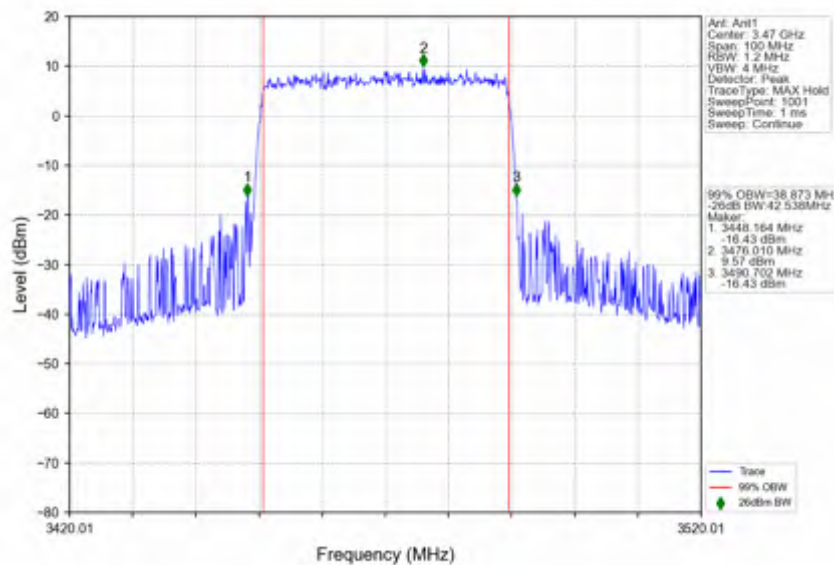
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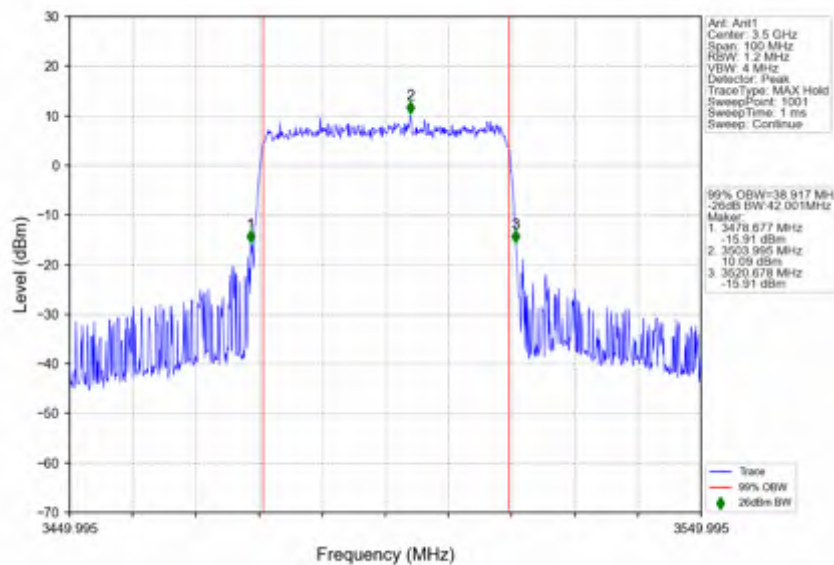
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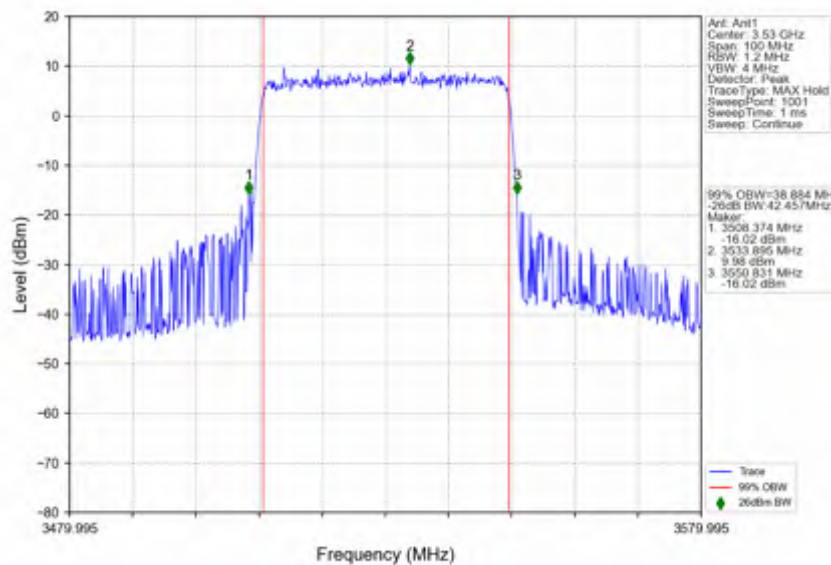


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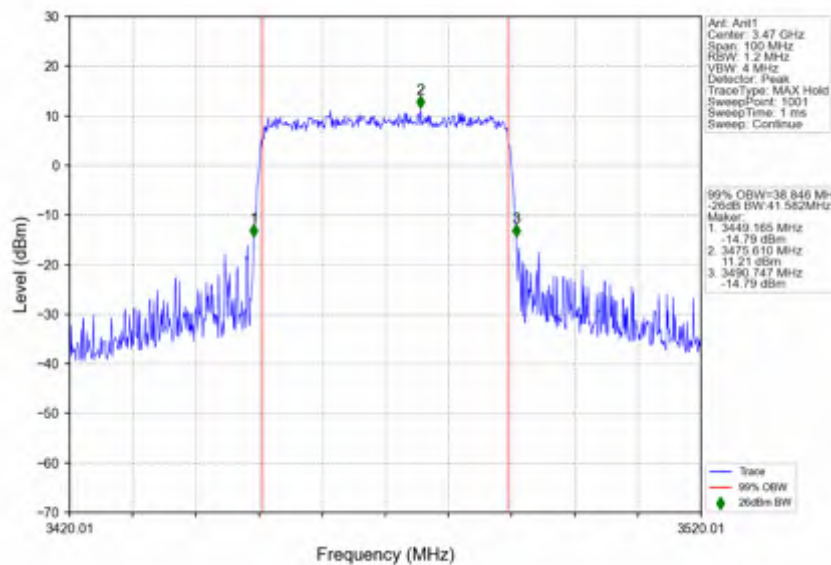
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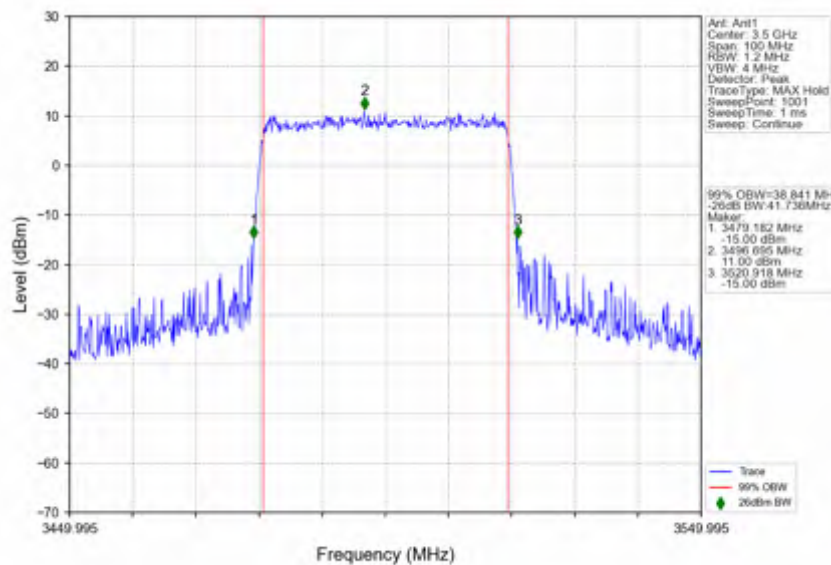
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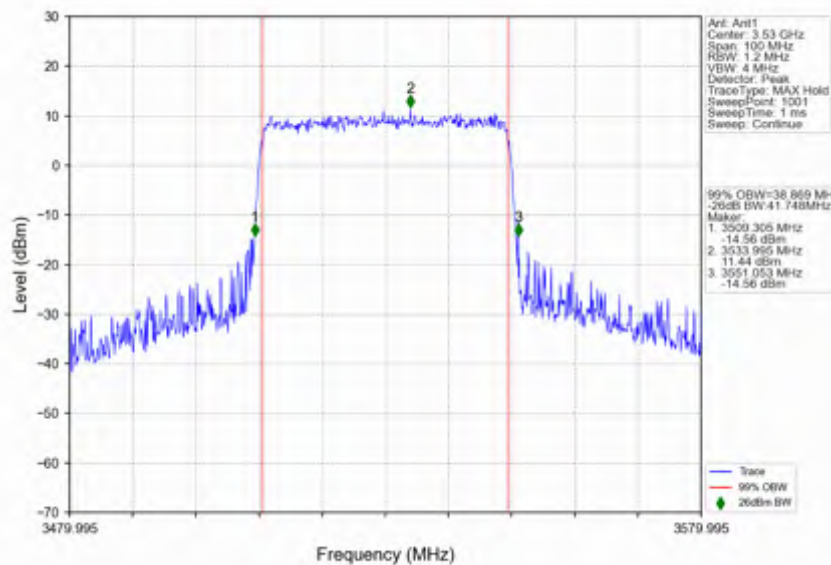
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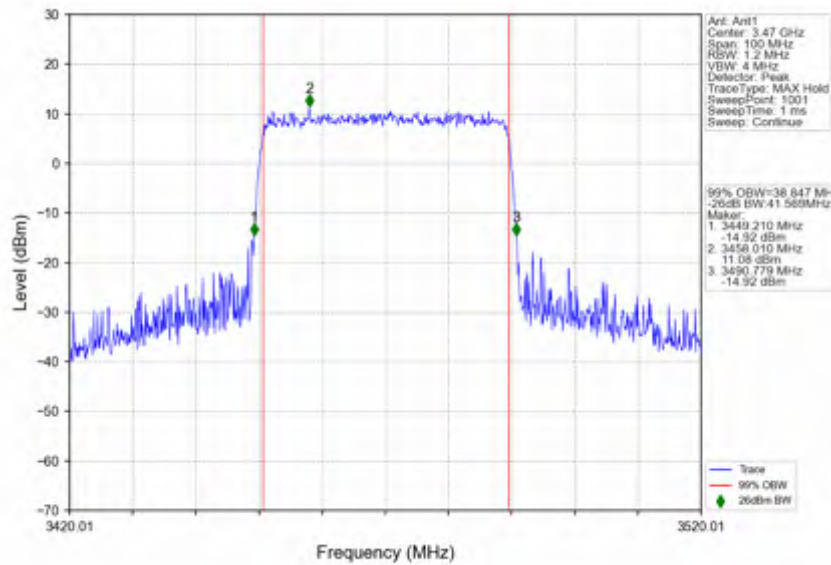
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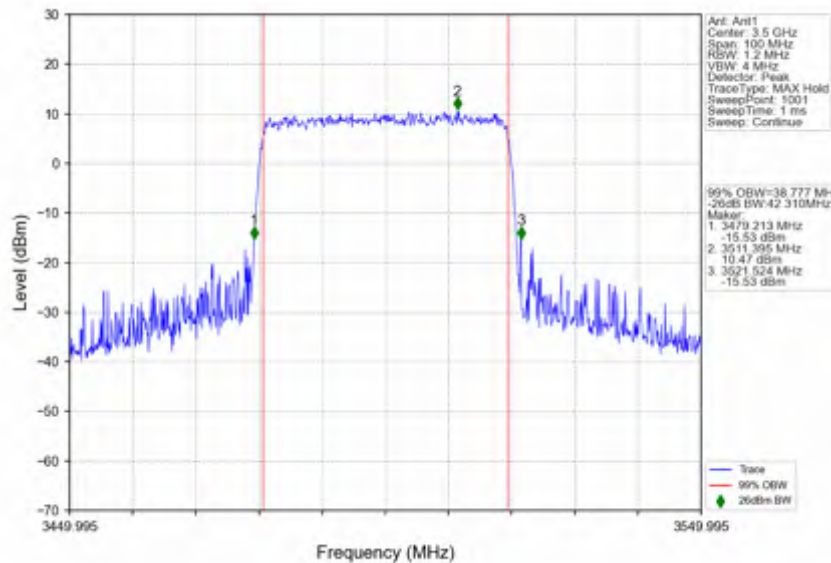
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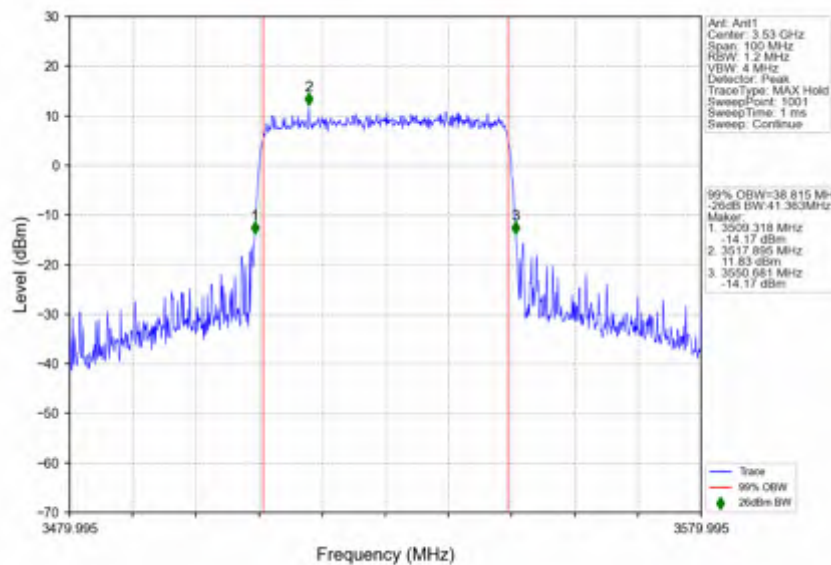
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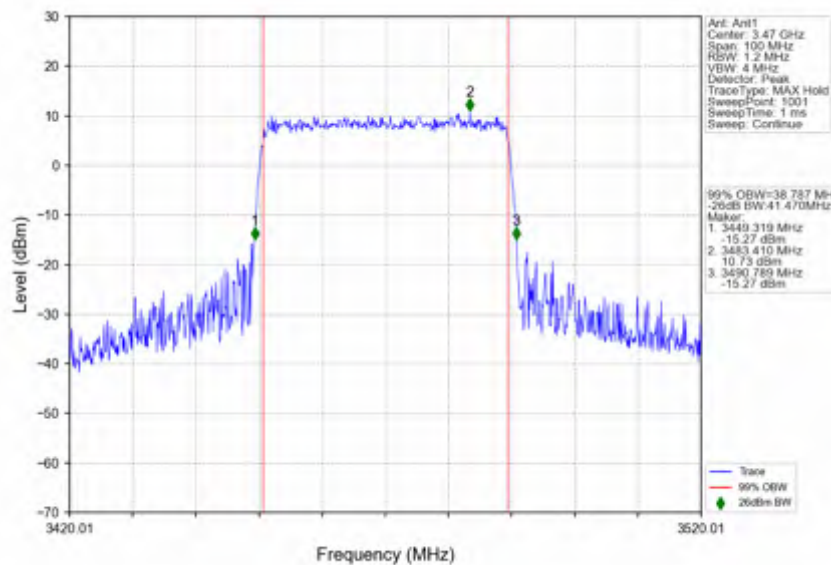
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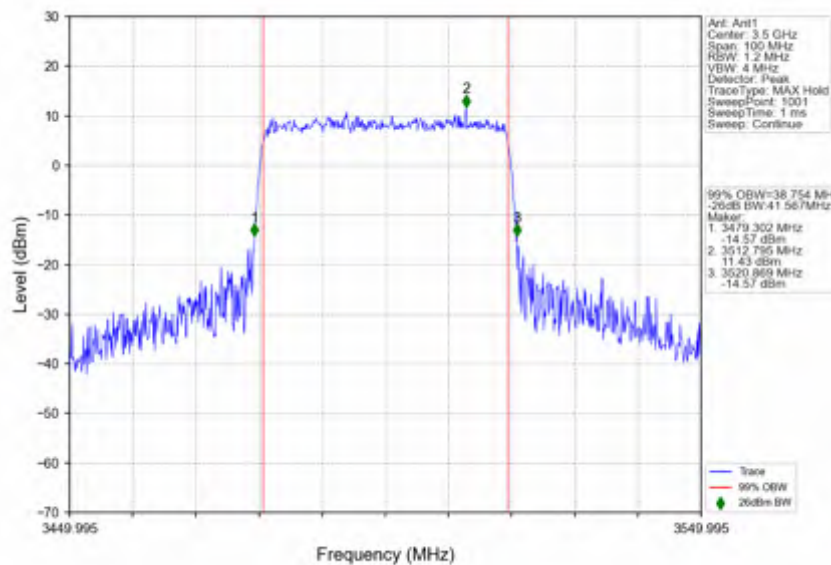


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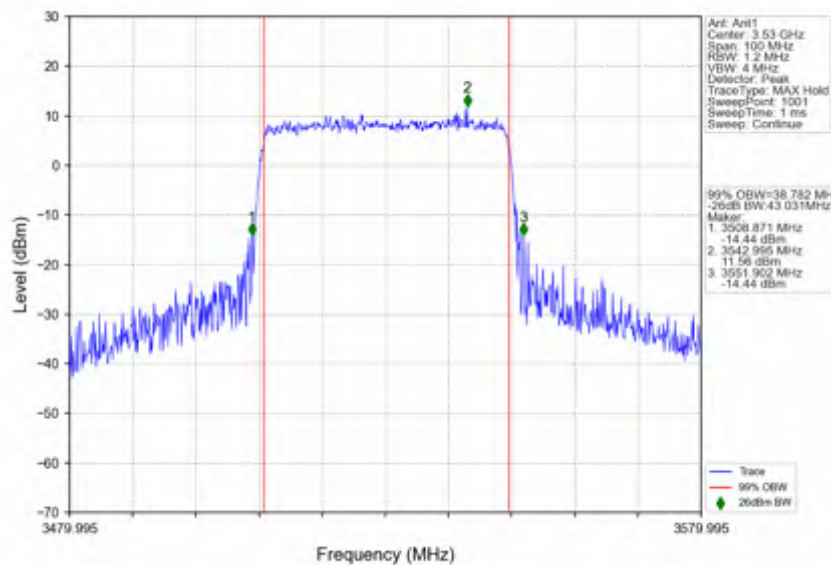
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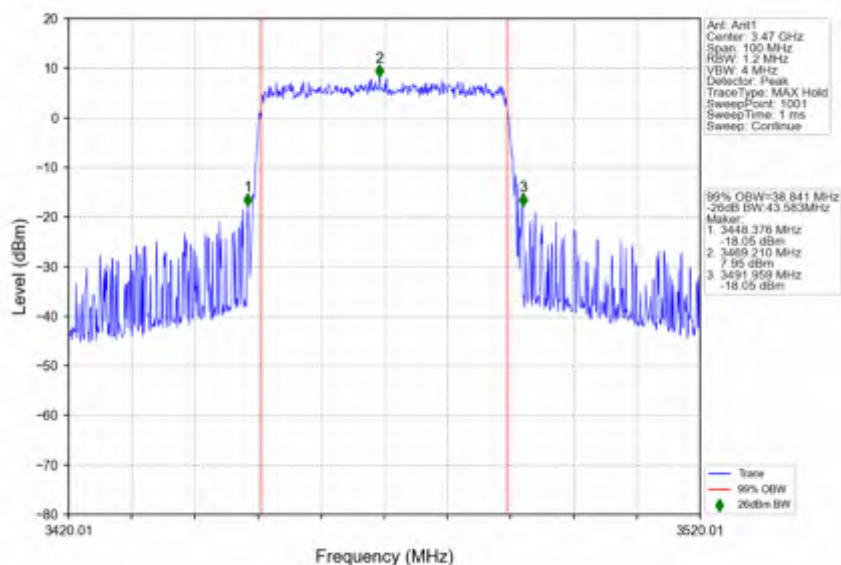
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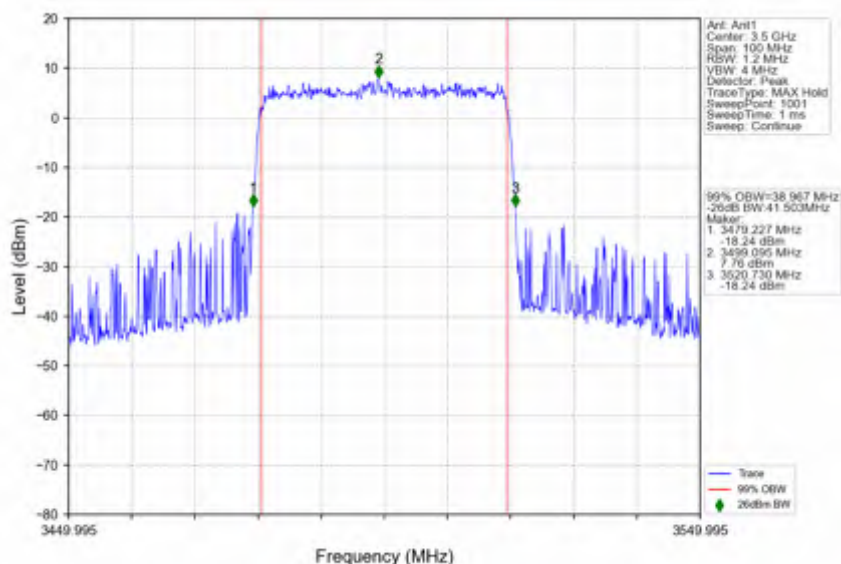
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n78e	15kHz	SISO	NTNV	40MHz	CP-OFDM	256 QAM	3470.01MHz	Outer	Full
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n78e 15kHz SISO NTNV 40MHz CP-OFDM 256 QAM 3499.995MHz Outer Full

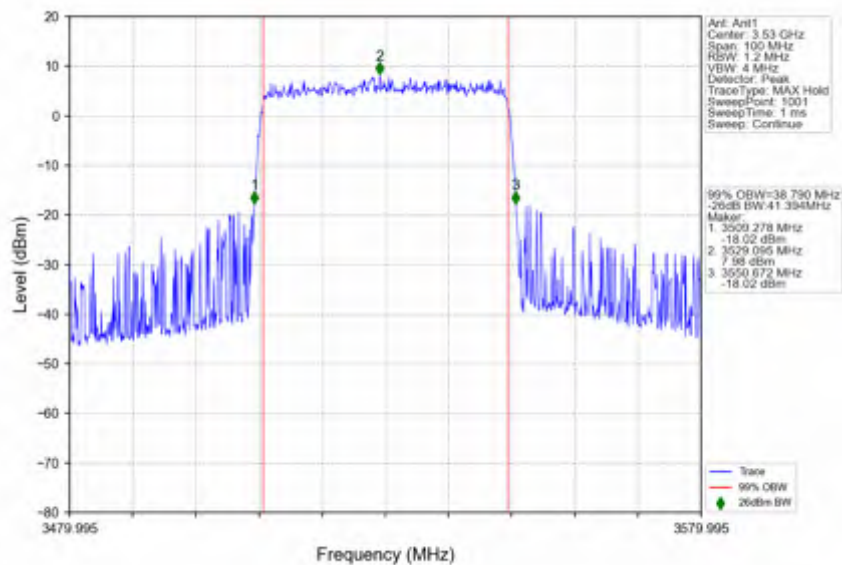


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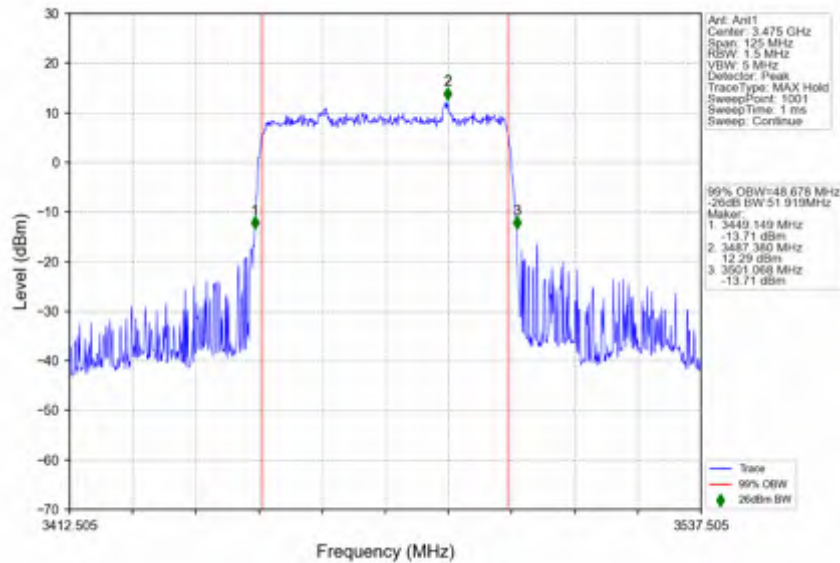
9.7 15k_SISO_50MHz_NTNV

9.7.1 Test Result

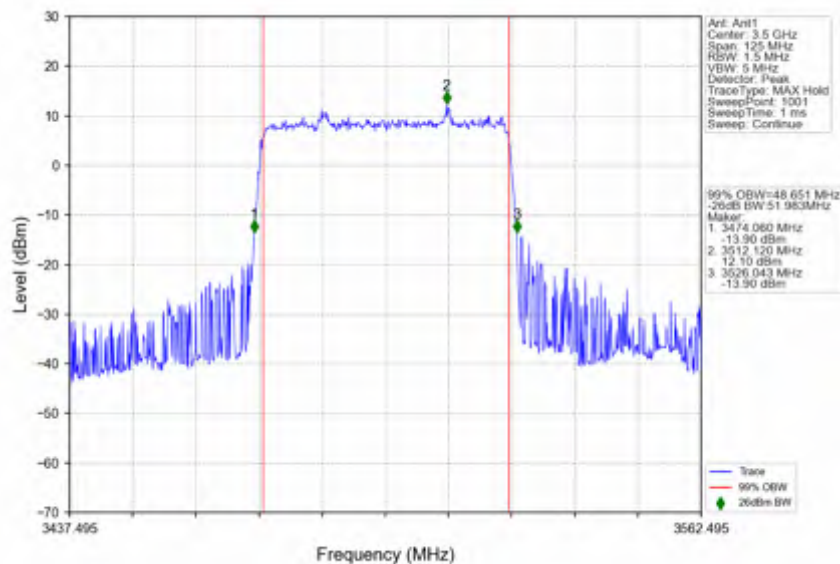
5G NR n78e SCS=15kHz SISO 50MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3475.005	Outer_Full	48.68	51.92	/	Pass
	3499.995	Outer_Full	48.65	51.98	/	Pass
	3525	Outer_Full	48.70	51.83	/	Pass
DFT-s-OFDM QPSK	3475.005	Outer_Full	48.44	52.09	/	Pass
	3499.995	Outer_Full	48.47	51.90	/	Pass
	3525	Outer_Full	48.47	51.84	/	Pass
DFT-s-OFDM 16 QAM	3475.005	Outer_Full	48.57	52.27	/	Pass
	3499.995	Outer_Full	48.61	52.31	/	Pass
	3525	Outer_Full	48.48	51.86	/	Pass
DFT-s-OFDM 64 QAM	3475.005	Outer_Full	48.50	52.06	/	Pass
	3499.995	Outer_Full	48.51	51.93	/	Pass
	3525	Outer_Full	48.51	51.83	/	Pass
DFT-s-OFDM 256 QAM	3475.005	Outer_Full	48.74	52.80	/	Pass
	3499.995	Outer_Full	48.61	51.96	/	Pass
	3525	Outer_Full	48.57	52.17	/	Pass
CP-OFDM QPSK	3475.005	Outer_Full	48.56	51.83	/	Pass
	3499.995	Outer_Full	48.64	56.23	/	Pass
	3525	Outer_Full	48.60	52.03	/	Pass
CP-OFDM 16 QAM	3475.005	Outer_Full	48.70	53.02	/	Pass
	3499.995	Outer_Full	48.65	52.70	/	Pass
	3525	Outer_Full	48.56	51.93	/	Pass
CP-OFDM 64 QAM	3475.005	Outer_Full	48.47	51.82	/	Pass
	3499.995	Outer_Full	48.51	52.33	/	Pass
	3525	Outer_Full	48.41	51.75	/	Pass
CP-OFDM 256 QAM	3475.005	Outer_Full	48.59	52.82	/	Pass
	3499.995	Outer_Full	48.56	52.14	/	Pass
	3525	Outer_Full	48.60	51.77	/	Pass

9.7.2 Test Graph

n78e_15kHz_SISO_NTNV_50MHz_DFT-s-OFDM_PI/2_BPSK_3475.005MHz_Outer_Full



n78e_15kHz_SISO_NTNV_50MHz_DFT-s-OFDM_PI/2_BPSK_3499.995MHz_Outer_Full



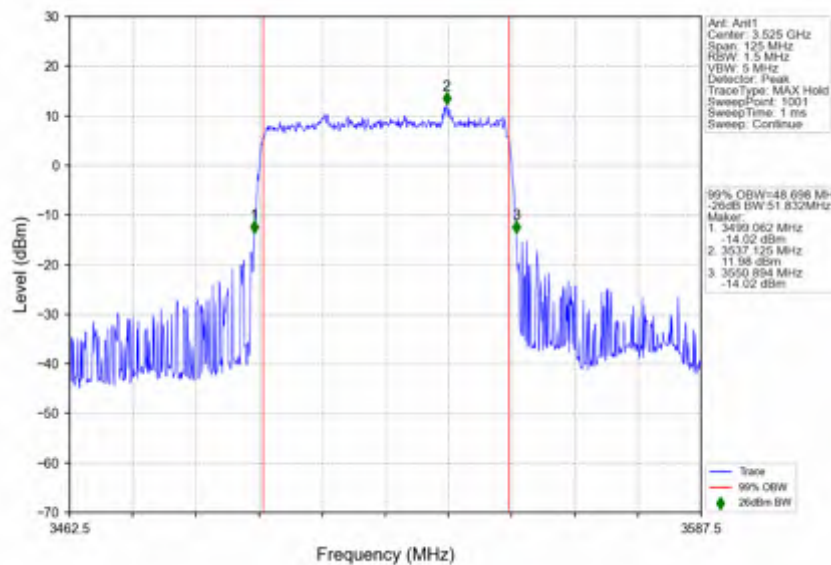
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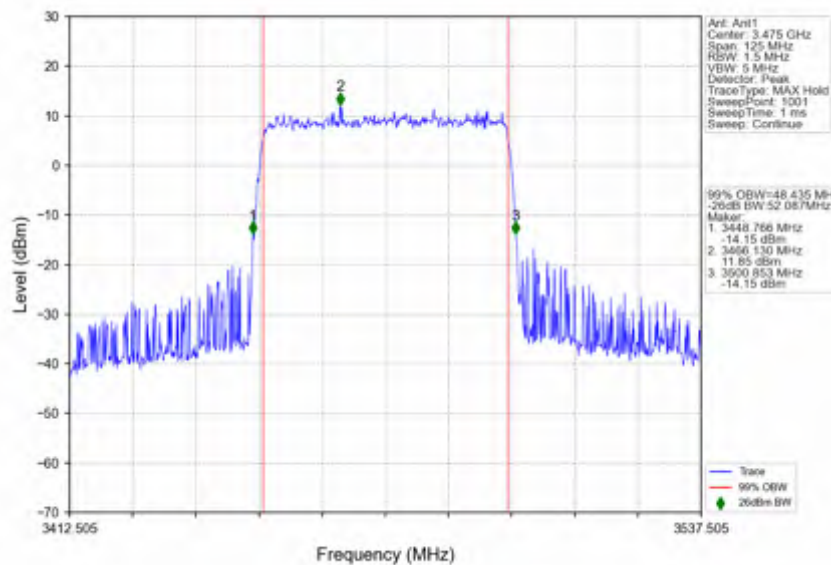
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n78e_15kHz_SISO_NTNV_50MHz_DFT-s-OFDM PI/2 BPSK_3525MHz_Outer_Full



n78e_15kHz_SISO_NTNV_50MHz_DFT-s-OFDM QPSK_3475.005MHz_Outer_Full



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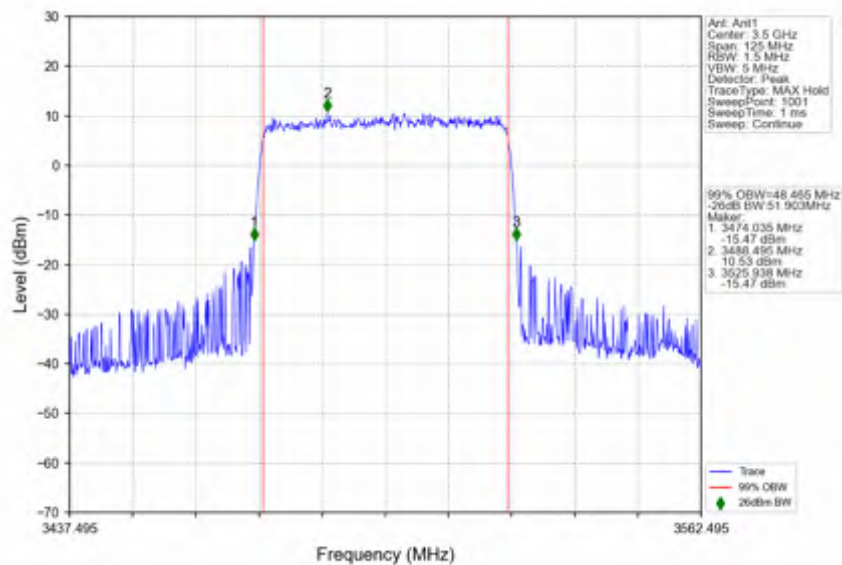
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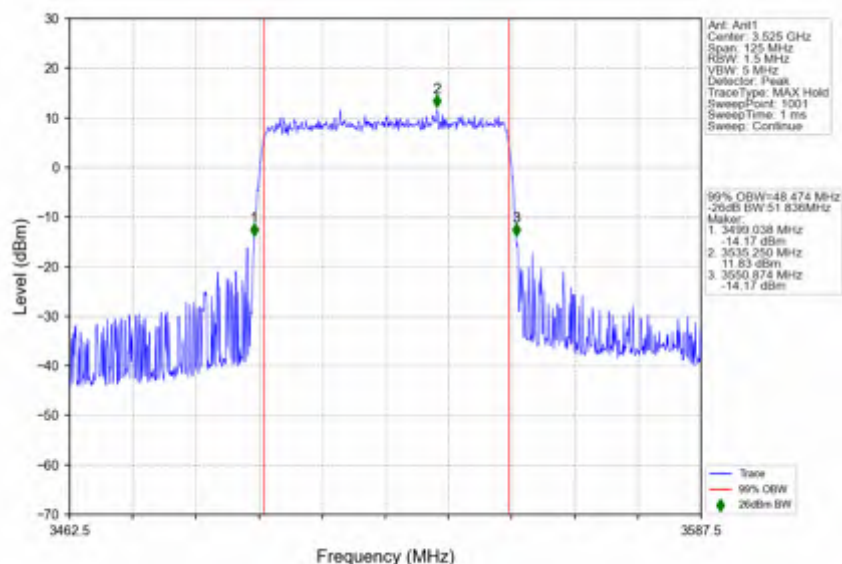
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n78e_15kHz_SISO_NTNV_50MHz_DFT-s-OFDM QPSK_3499.995MHz_Outer_Full



n78e_15kHz_SISO_NTNV_50MHz_DFT-s-OFDM QPSK_3525MHz_Outer_Full



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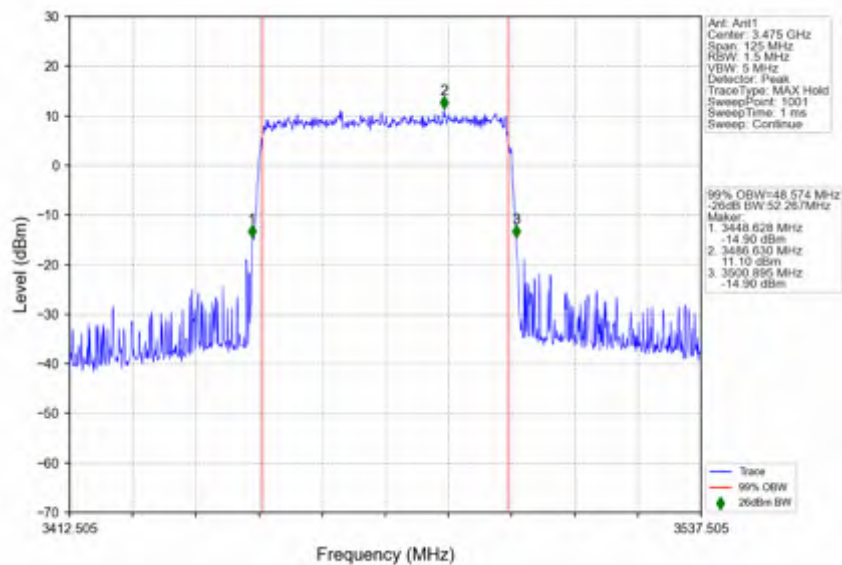
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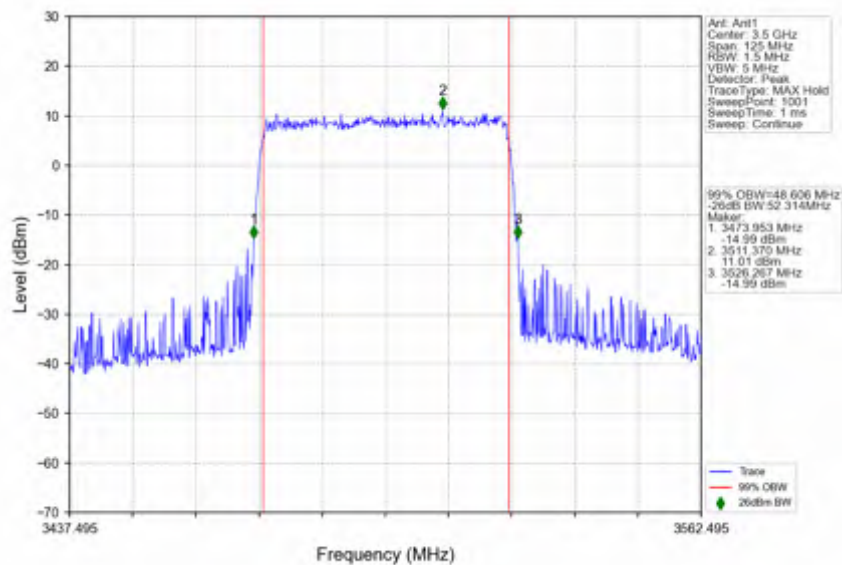
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n78e_15kHz_SISO_NTNV_50MHz_DFT-s-OFDM_16_QAM_3475.005MHz_Outer_Full



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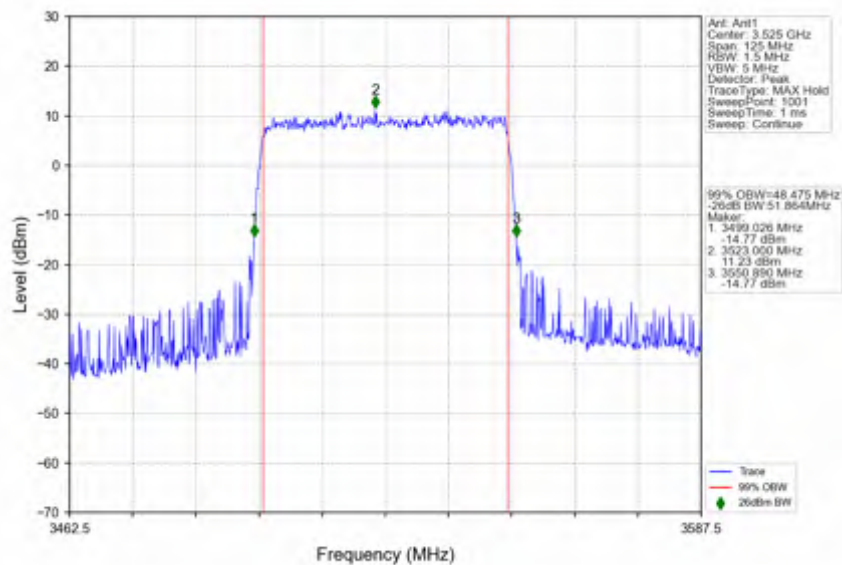
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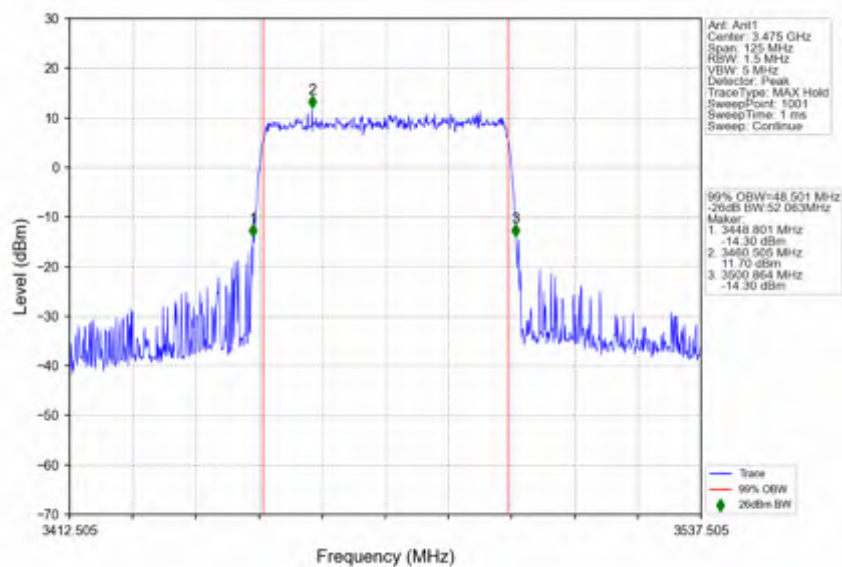
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n78e 15kHz SISO NTNv 50MHz DFT-s-OFDM 16 QAM 3525MHz Outer Full



n78e	15kHz	SISO	NTNV	50MHz	DFT-s-OFDM	64 QAM	3475.005MHz	Outer	Full
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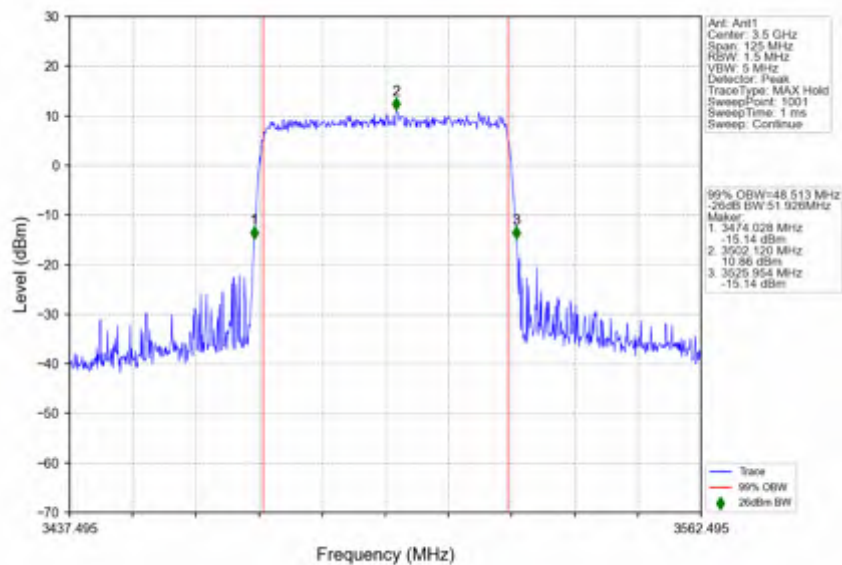


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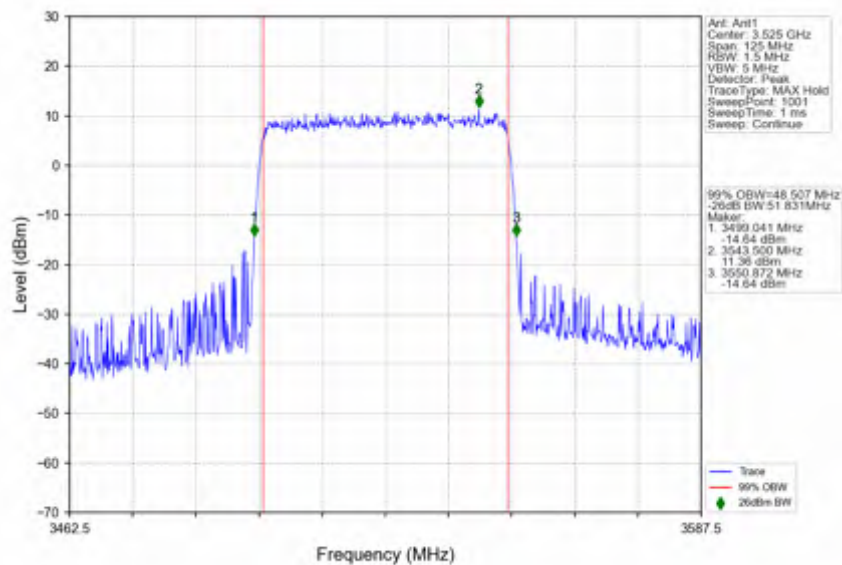
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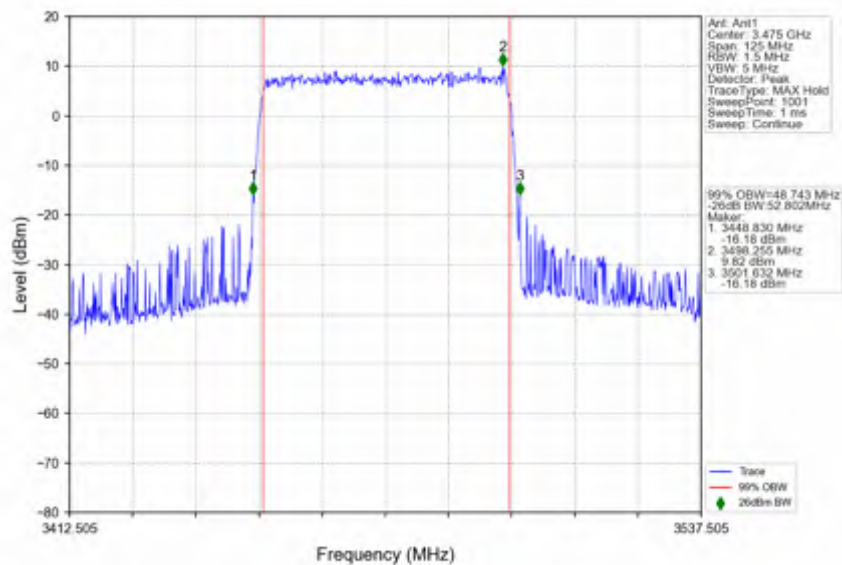
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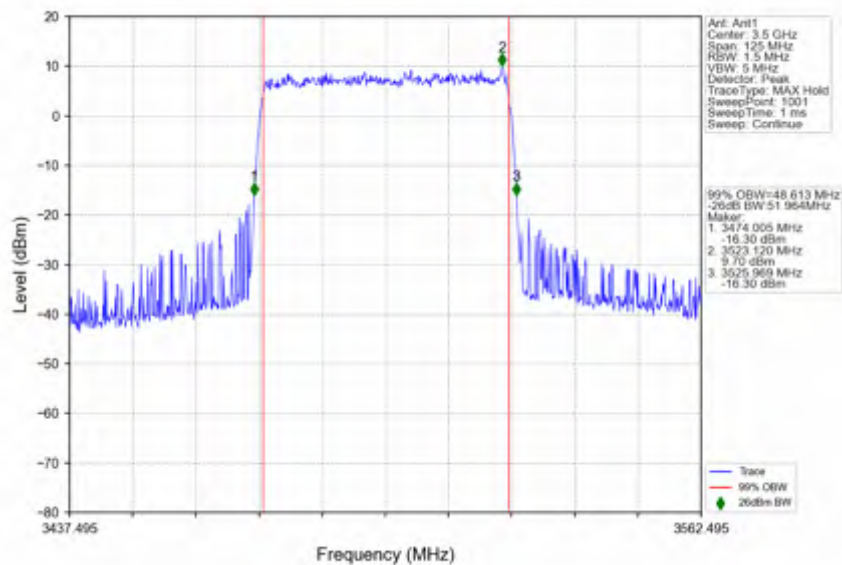
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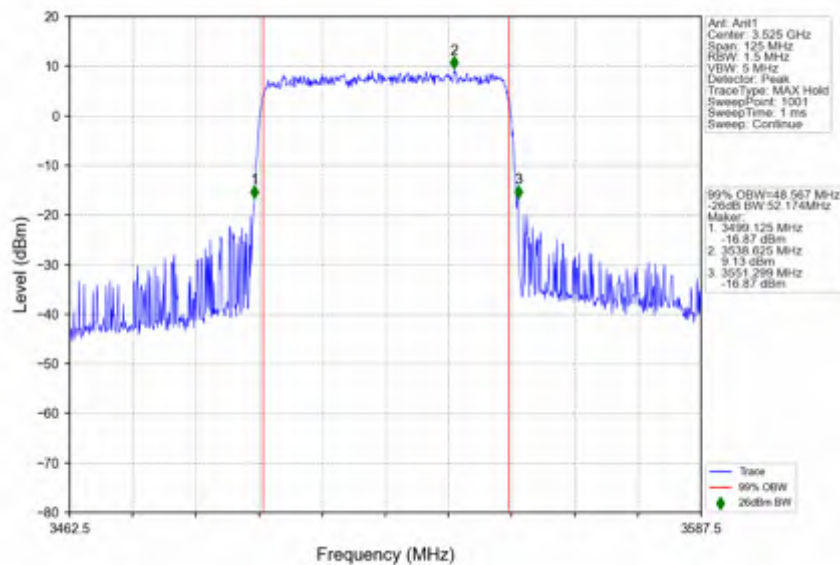


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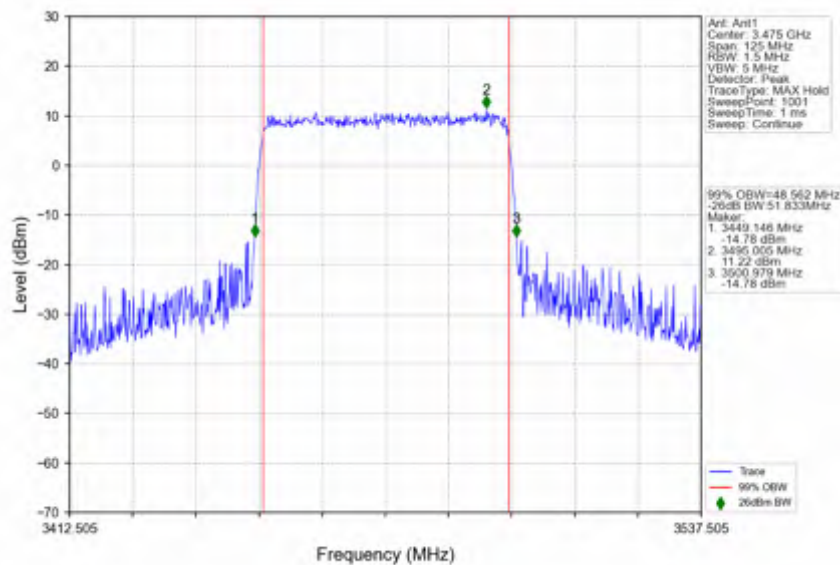
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n78e_15kHz_SISO_NTNV_50MHz_DFT-s-OFDM_256_QAM_3525MHz_Outer_Full



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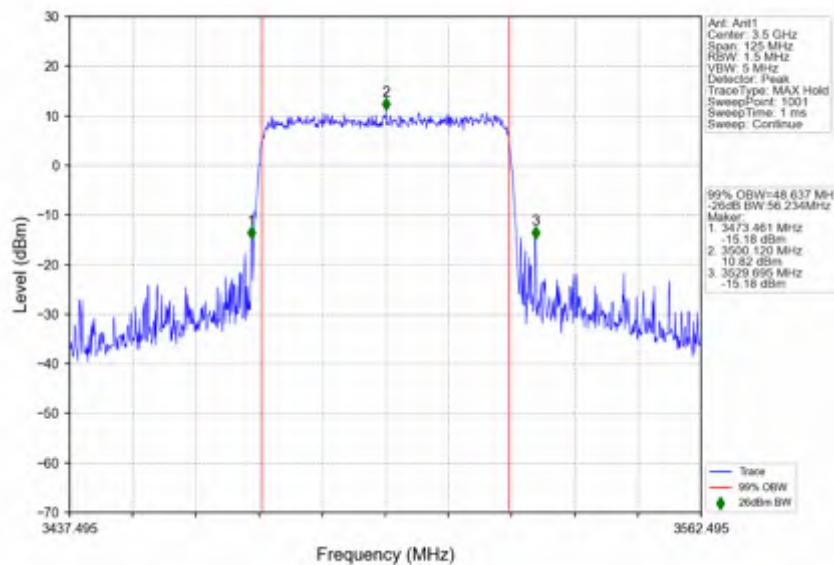
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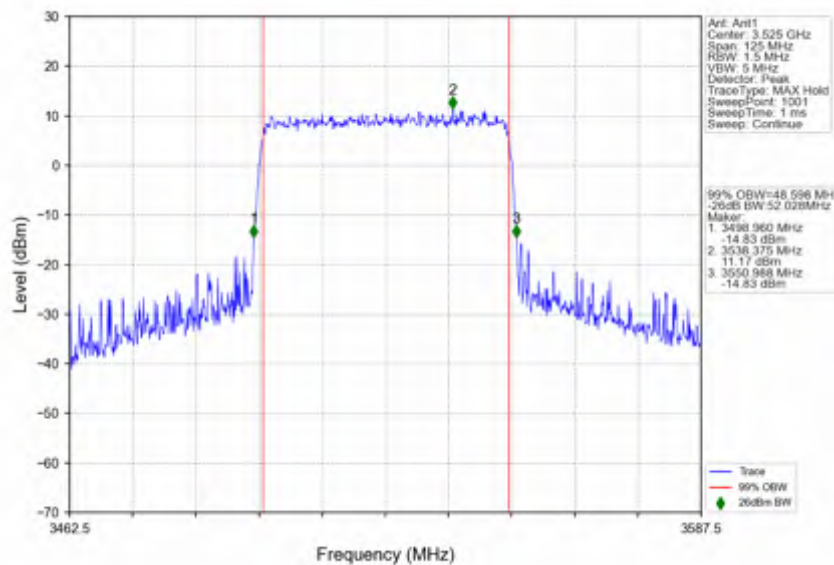
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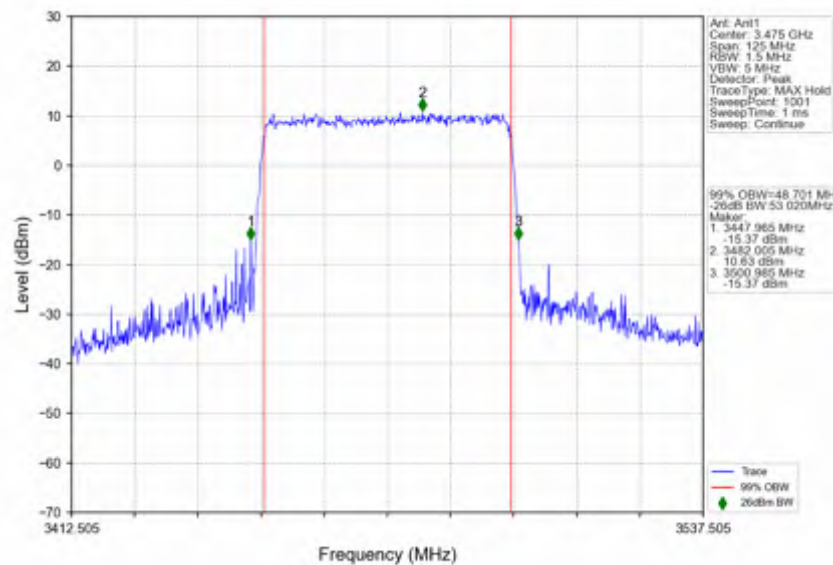
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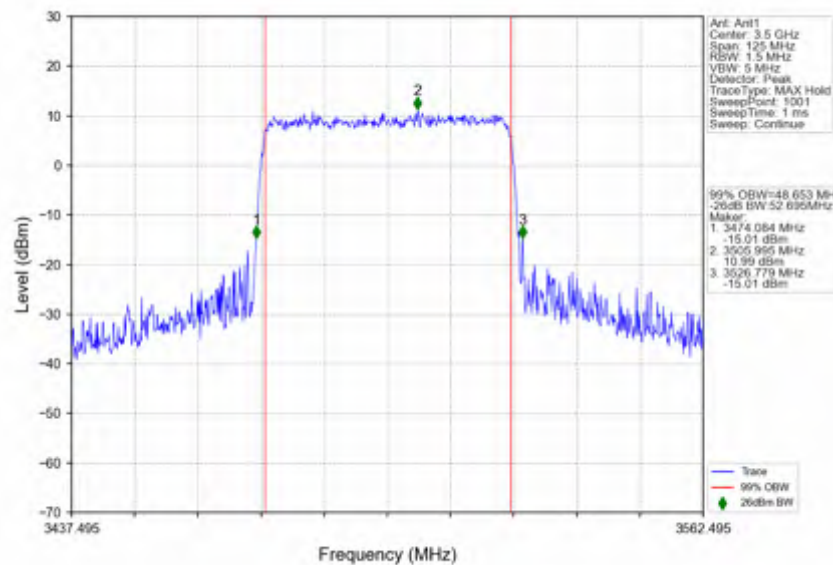
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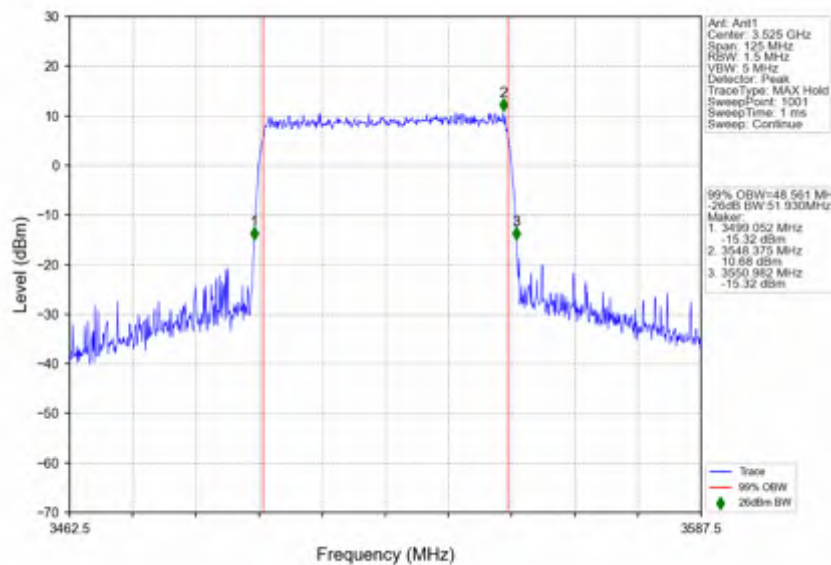
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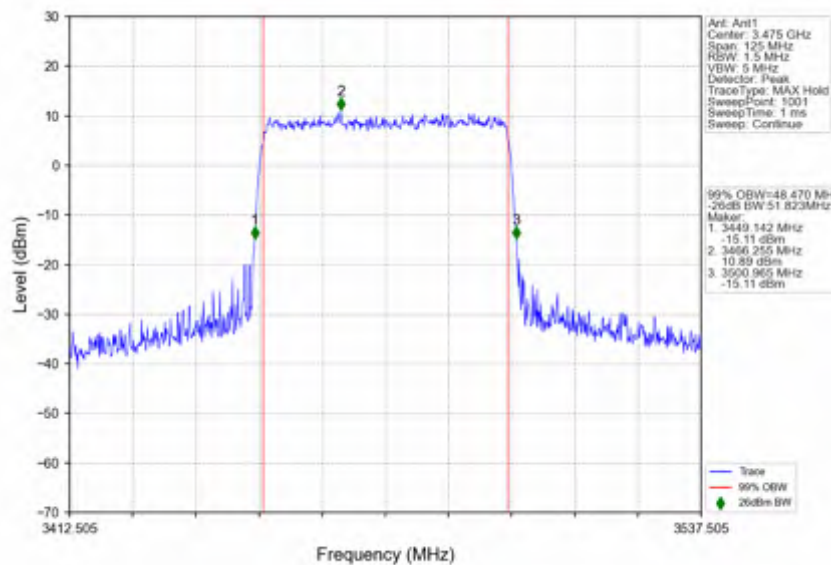
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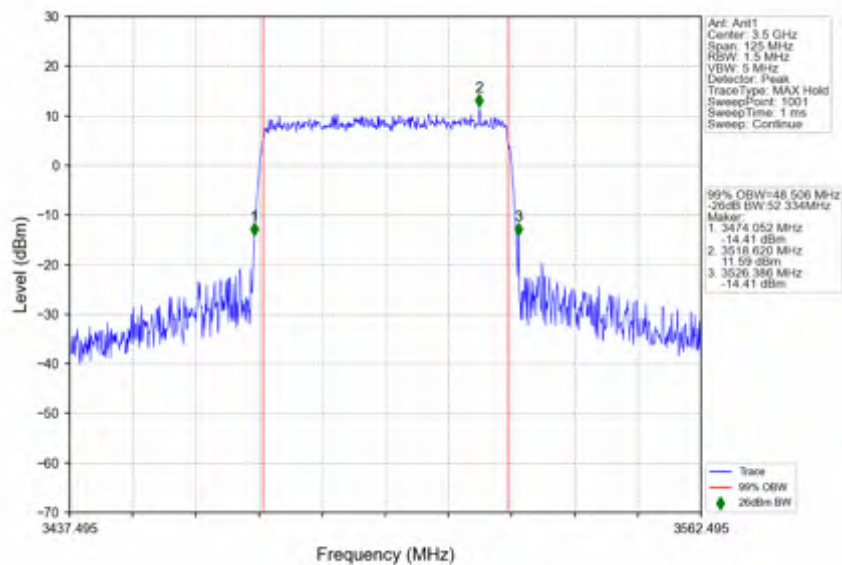
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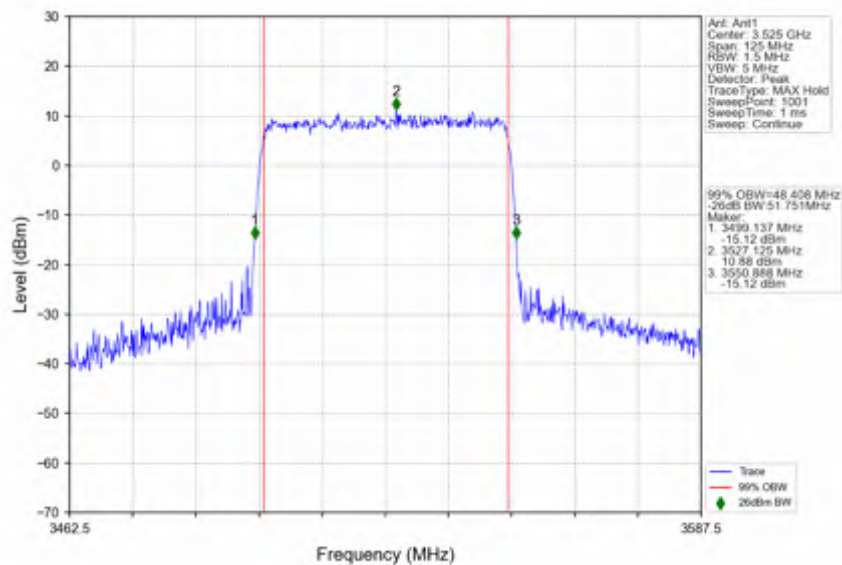
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n78e_15kHz_SISO_NTNV_50MHz_CP-OFDM 64 QAM_3499.995MHz_Outer_Full



n78e_15kHz_SISO_NTNV_50MHz_CP-OFDM 64 QAM_3525MHz_Outer_Full



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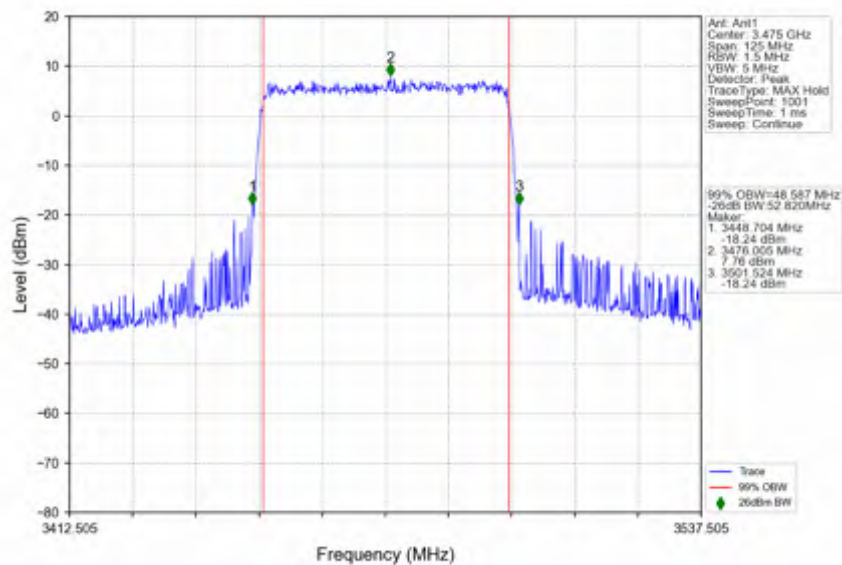
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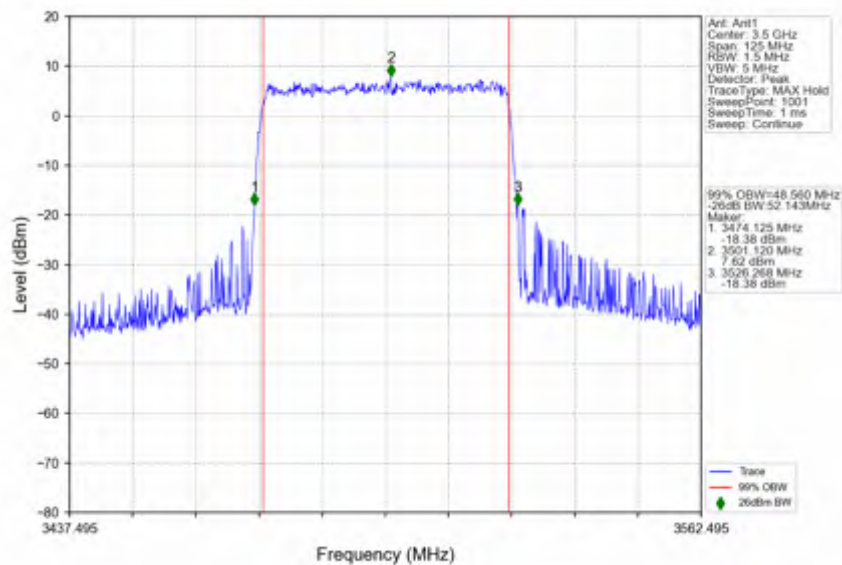
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n78e_15kHz_SISO_NTNV_50MHz_CP-OFDM_256_QAM_3475.005MHz_Outer_Full



n78e_15kHz_SISO_NTNV_50MHz_CP-OFDM_256_QAM_3499.995MHz_Outer_Full



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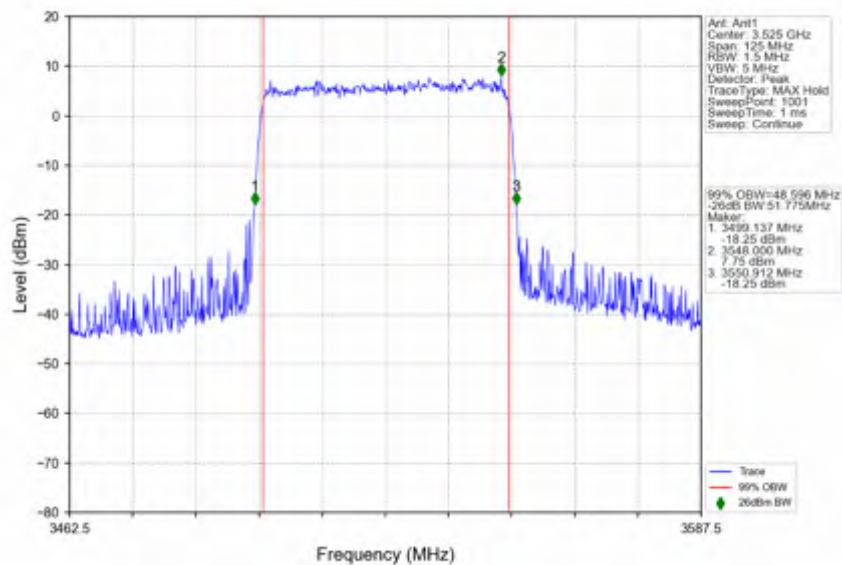
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n78e 15kHz SISO NTNv 50MHz CP-OFDM 256 QAM 3525MHz Outer Full



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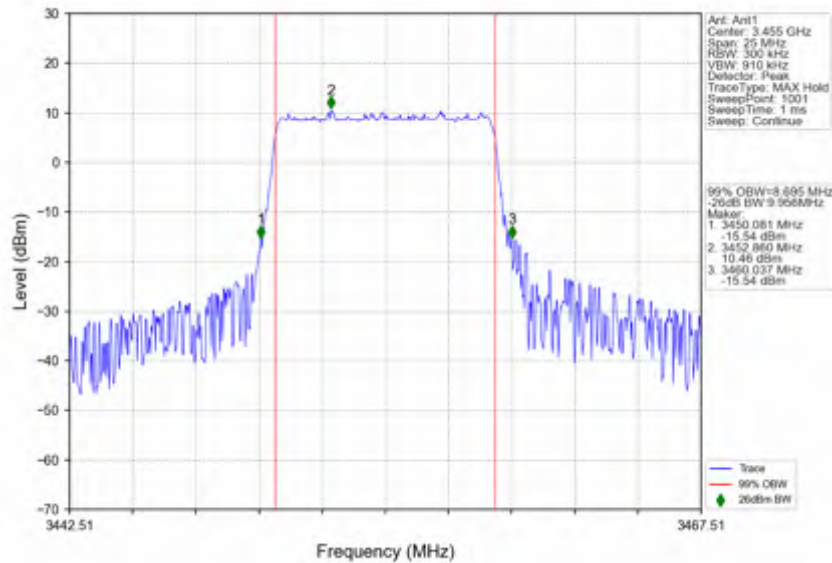
9.8 30k_SISO_10MHz_NTNV

9.8.1 Test Result

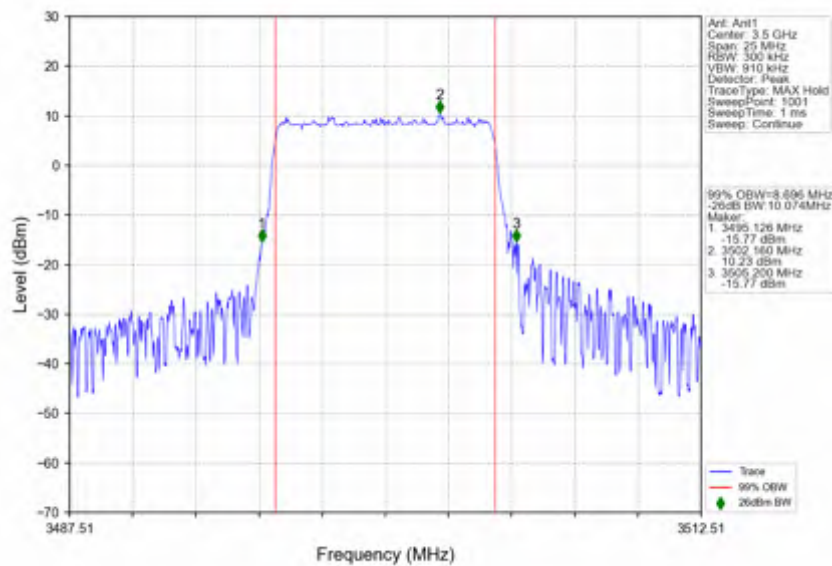
5G NR n78e SCS=30kHz SISO 10MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3455.01	Outer_Full	8.70	9.96	/	Pass
	3500.01	Outer_Full	8.70	10.07	/	Pass
	3544.98	Outer_Full	8.70	10.07	/	Pass
DFT-s-OFDM QPSK	3455.01	Outer_Full	8.74	9.70	/	Pass
	3500.01	Outer_Full	8.70	9.76	/	Pass
	3544.98	Outer_Full	8.70	9.76	/	Pass
DFT-s-OFDM 16 QAM	3455.01	Outer_Full	8.68	9.78	/	Pass
	3500.01	Outer_Full	8.67	9.71	/	Pass
	3544.98	Outer_Full	8.66	9.77	/	Pass
DFT-s-OFDM 64 QAM	3455.01	Outer_Full	8.72	9.79	/	Pass
	3500.01	Outer_Full	8.72	9.72	/	Pass
	3544.98	Outer_Full	8.67	9.78	/	Pass
DFT-s-OFDM 256 QAM	3455.01	Outer_Full	8.73	9.76	/	Pass
	3500.01	Outer_Full	8.72	9.86	/	Pass
	3544.98	Outer_Full	8.75	9.81	/	Pass
CP-OFDM QPSK	3455.01	Outer_Full	8.63	9.69	/	Pass
	3500.01	Outer_Full	8.64	9.59	/	Pass
	3544.98	Outer_Full	8.63	9.76	/	Pass
CP-OFDM 16 QAM	3455.01	Outer_Full	8.70	9.80	/	Pass
	3500.01	Outer_Full	8.69	9.71	/	Pass
	3544.98	Outer_Full	8.69	9.81	/	Pass
CP-OFDM 64 QAM	3455.01	Outer_Full	8.68	9.74	/	Pass
	3500.01	Outer_Full	8.69	9.70	/	Pass
	3544.98	Outer_Full	8.66	9.64	/	Pass
CP-OFDM 256 QAM	3455.01	Outer_Full	8.68	9.93	/	Pass
	3500.01	Outer_Full	8.67	9.76	/	Pass
	3544.98	Outer_Full	8.69	9.81	/	Pass

9.8.2 Test Graph

n78e_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_3455.01MHz_Outer_Full



n78e_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_3500.01MHz_Outer_Full



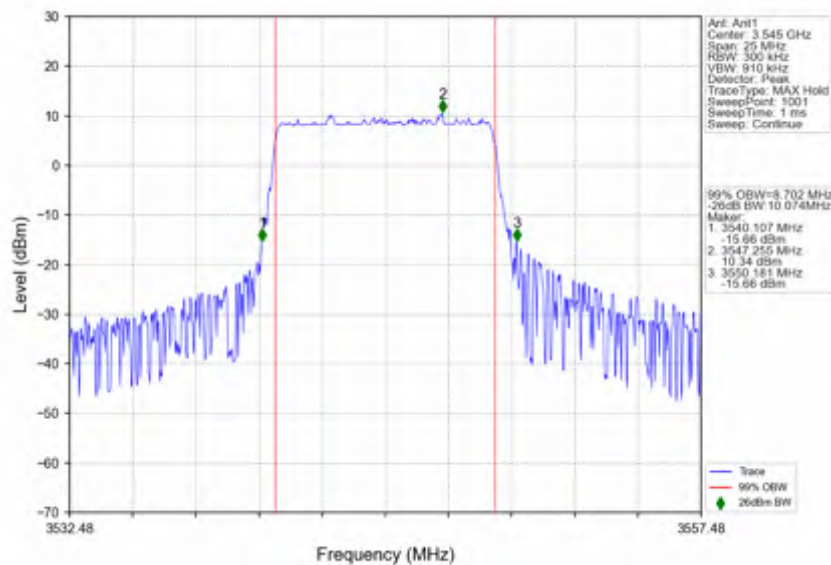
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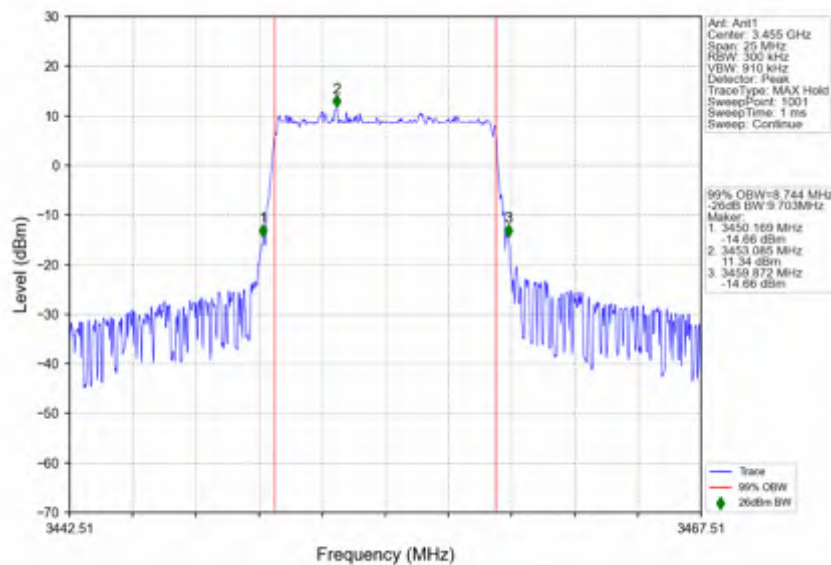
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n78e_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_3544.98MHz_Outer_Full



n78e_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_3455.01MHz_Outer_Full



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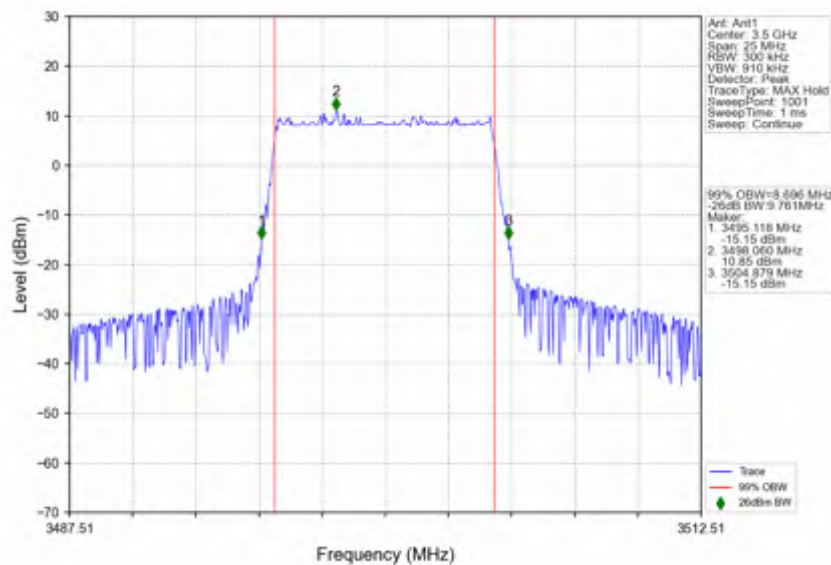
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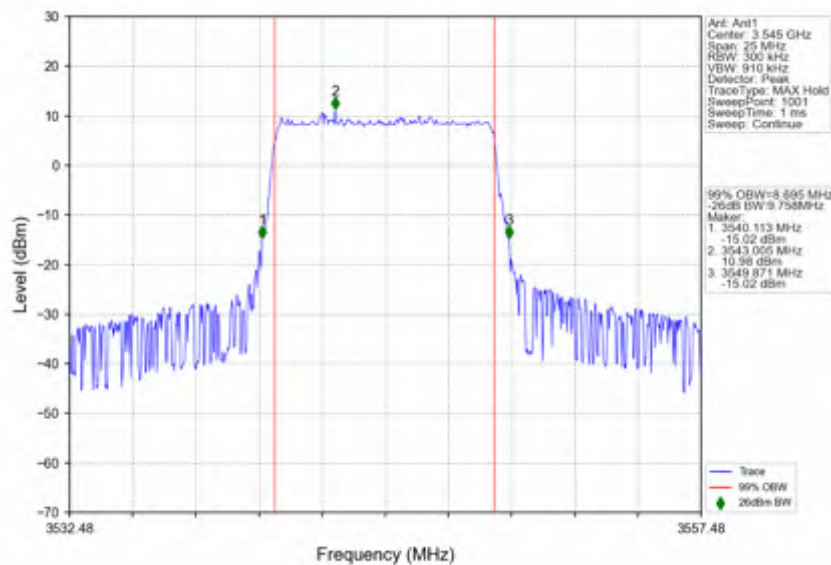
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n78e_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_QPSK_3544.98MHz_Outer_Full



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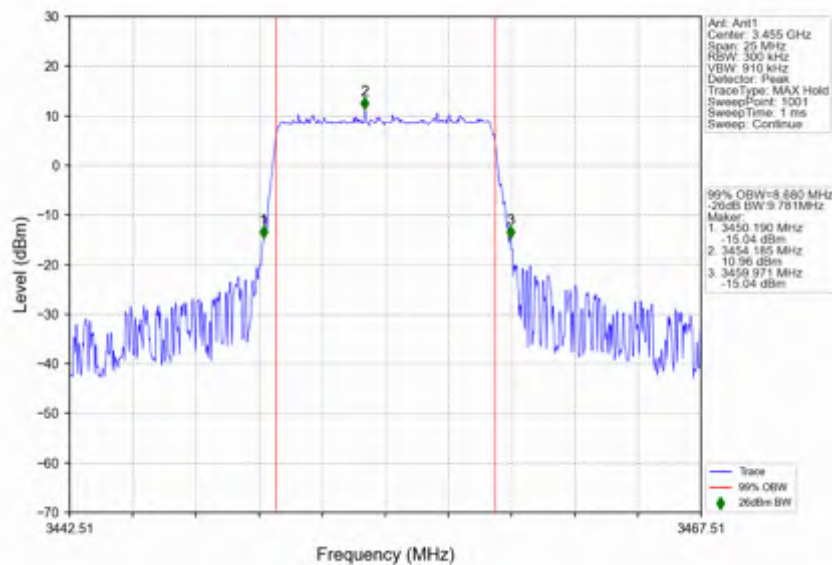
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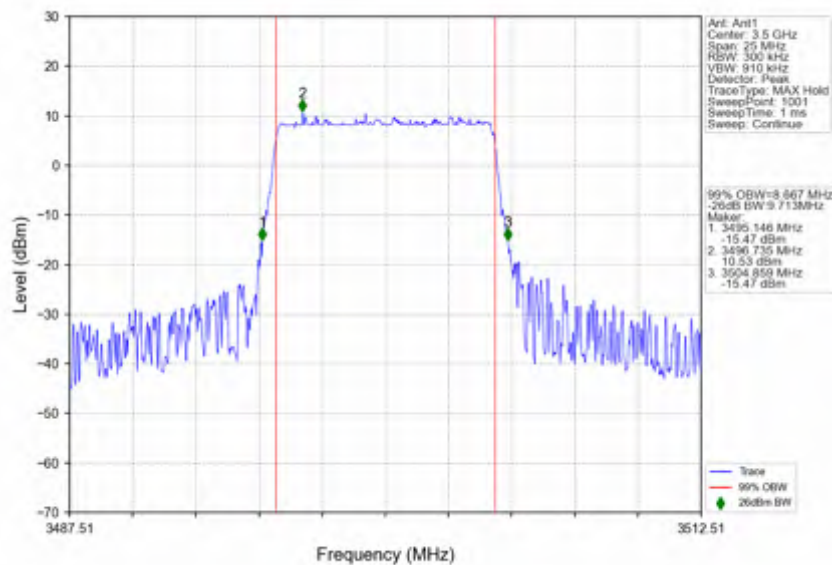
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n78e_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_16_QAM_3500.01MHz_Outer_Full



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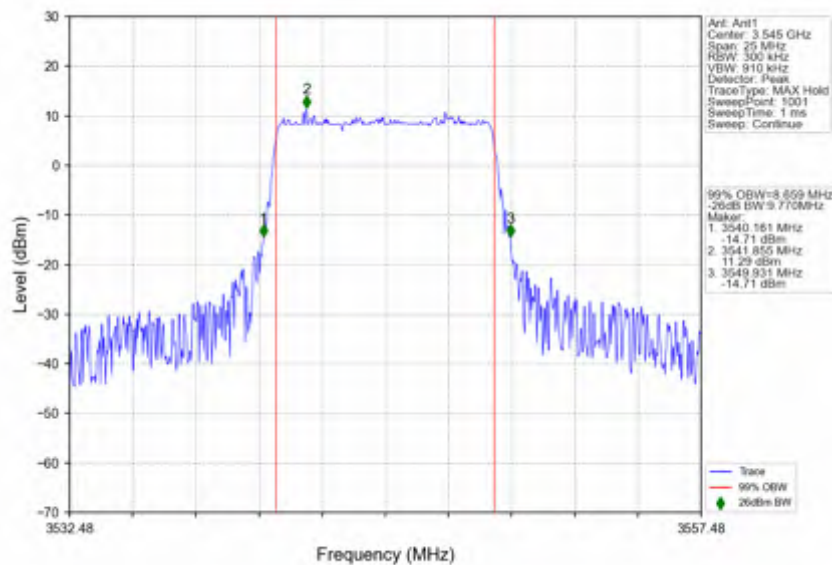
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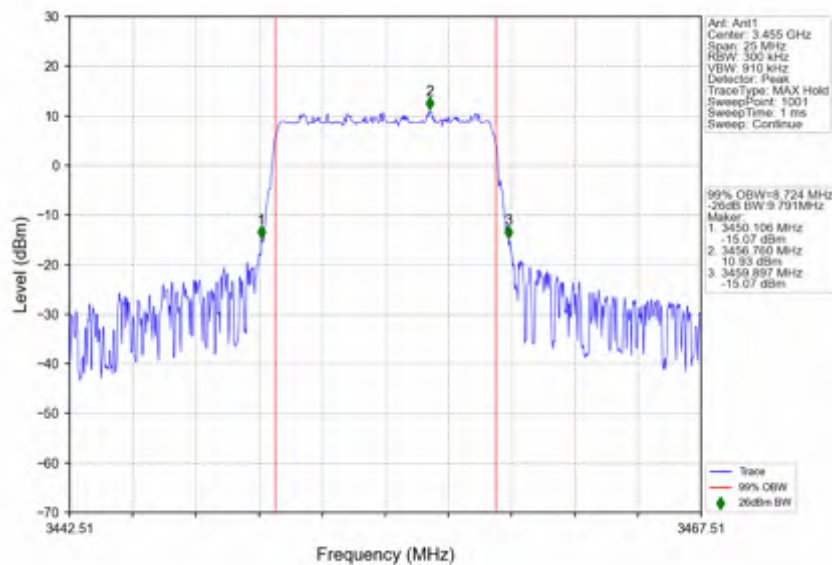
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n78e_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 16 QAM_3544.98MHz_Outer_Full



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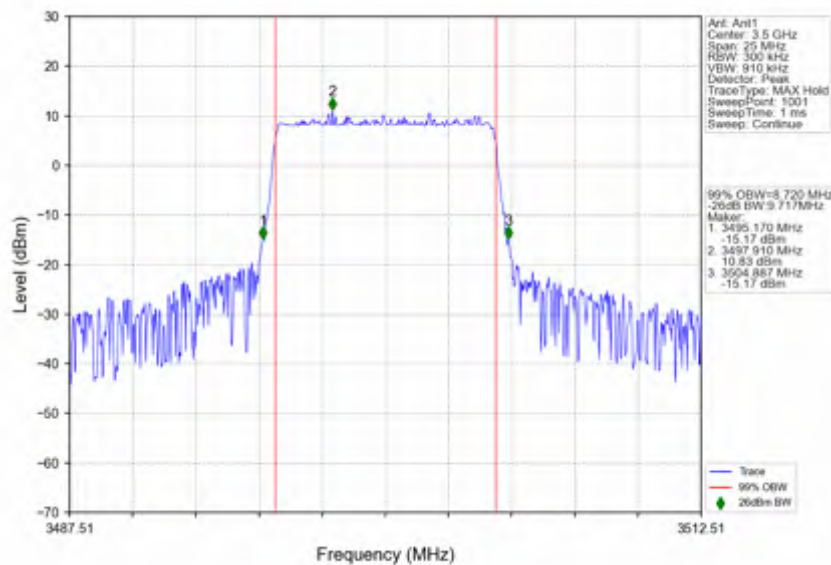
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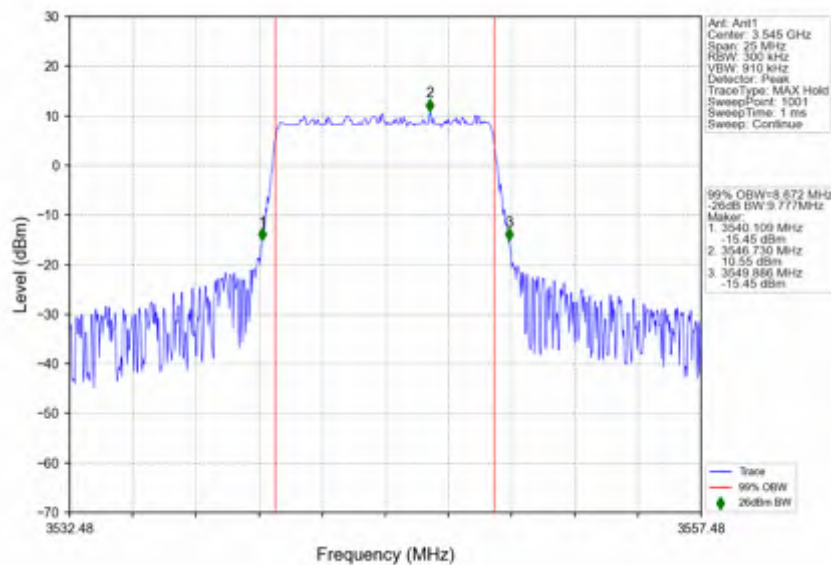
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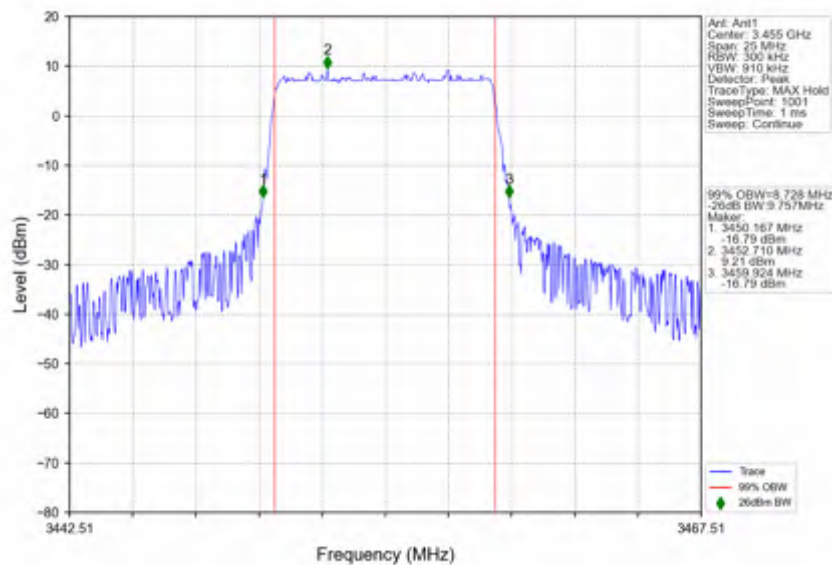
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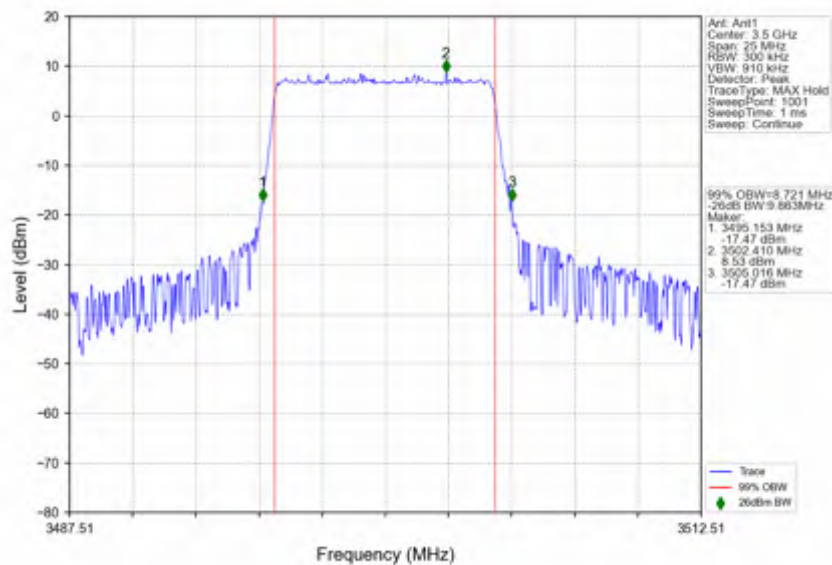
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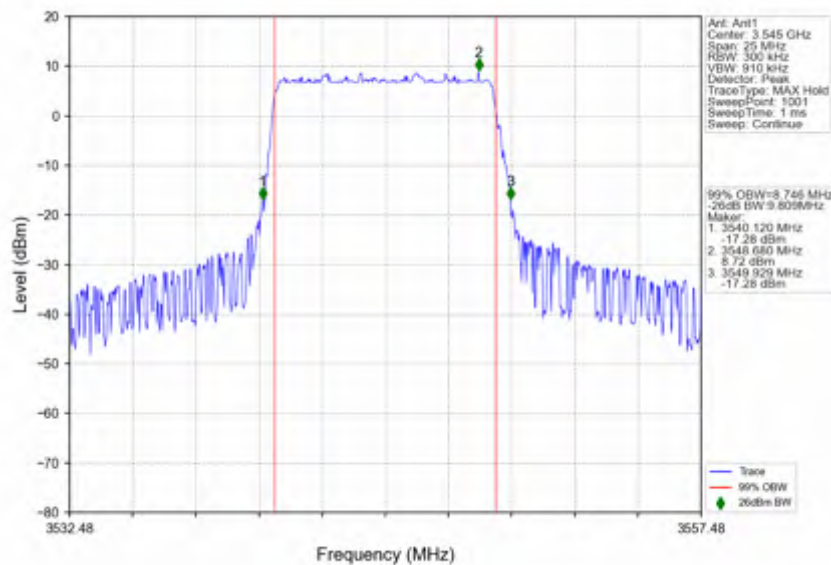
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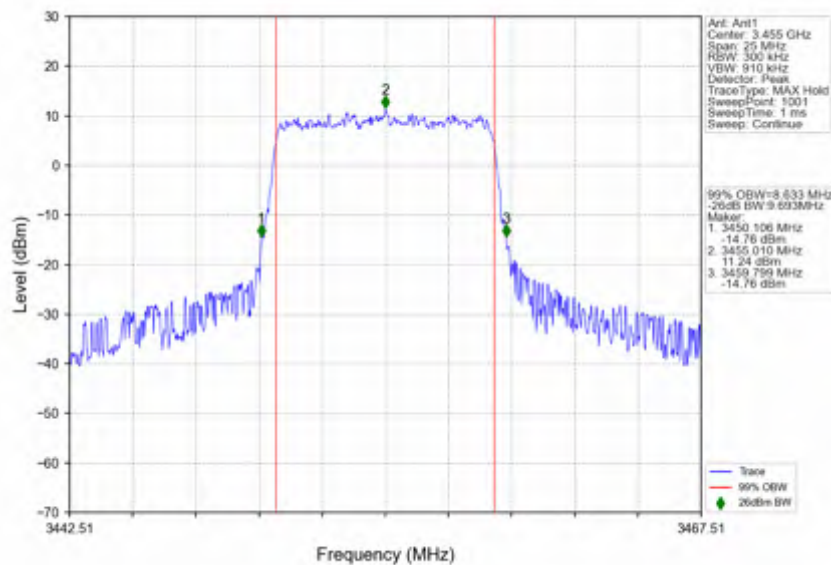
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n78e_30kHz_SISO_NTNV_10MHz_CP-OFDM_QPSK_3455.01MHz_Outer_Full



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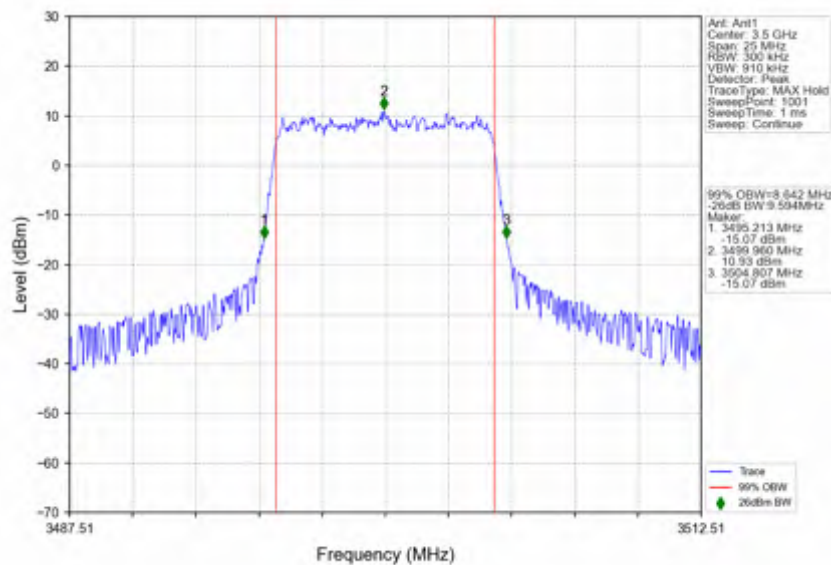
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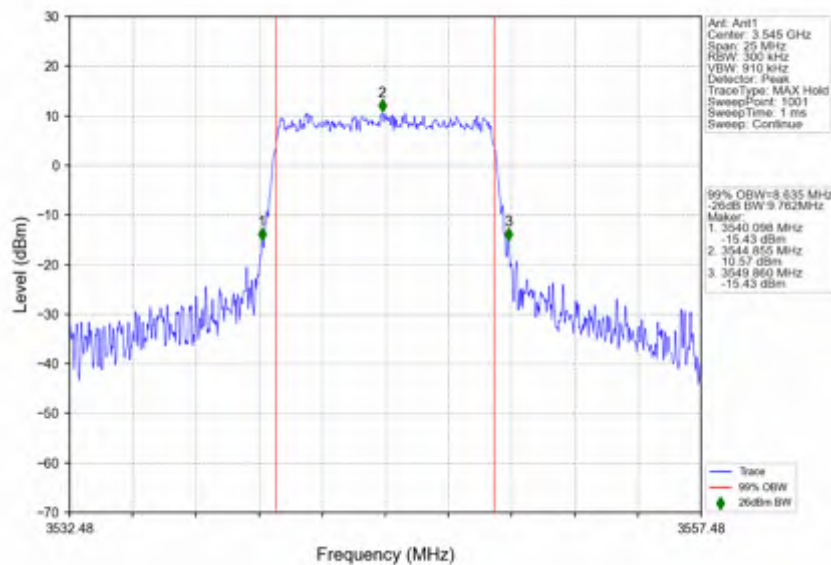
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n78e_30kHz_SISO_NTNV_10MHz_CP-OFDM_QPSK_3500.01MHz_Outer_Full



n78e_30kHz_SISO_NTNV_10MHz_CP-OFDM_QPSK_3544.98MHz_Outer_Full



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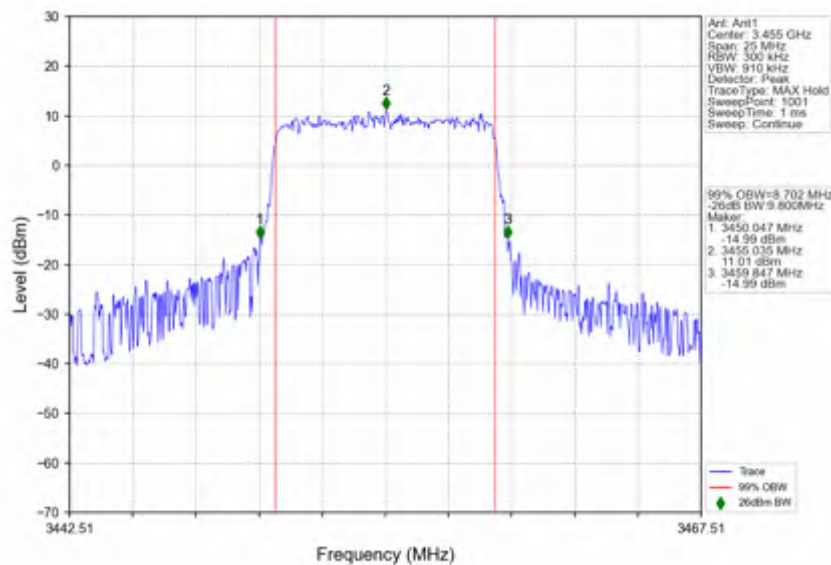
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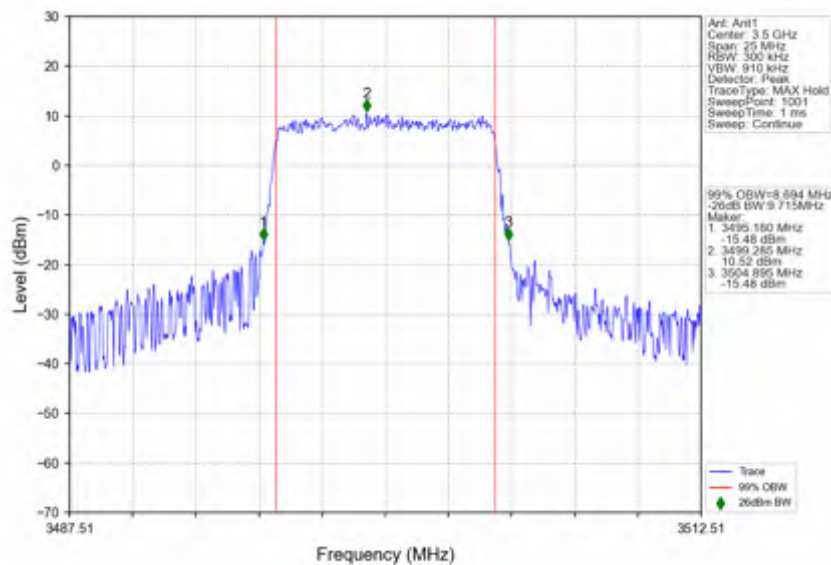
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n78e_30kHz_SISO_NTNV_10MHz_CP-OFDM 16 QAM 3455.01MHz_Outer_Full



n78e_30kHz_SISO_NTNV_10MHz_CP-OFDM 16 QAM 3500.01MHz_Outer_Full



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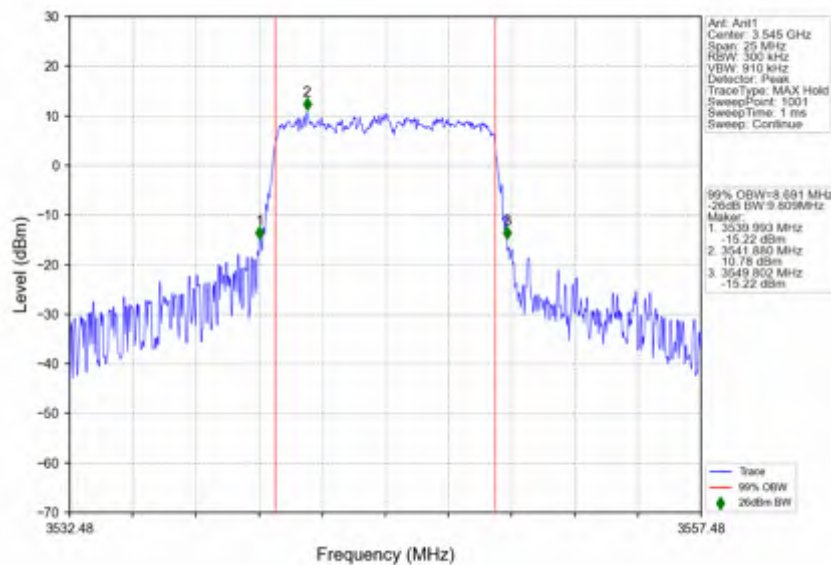
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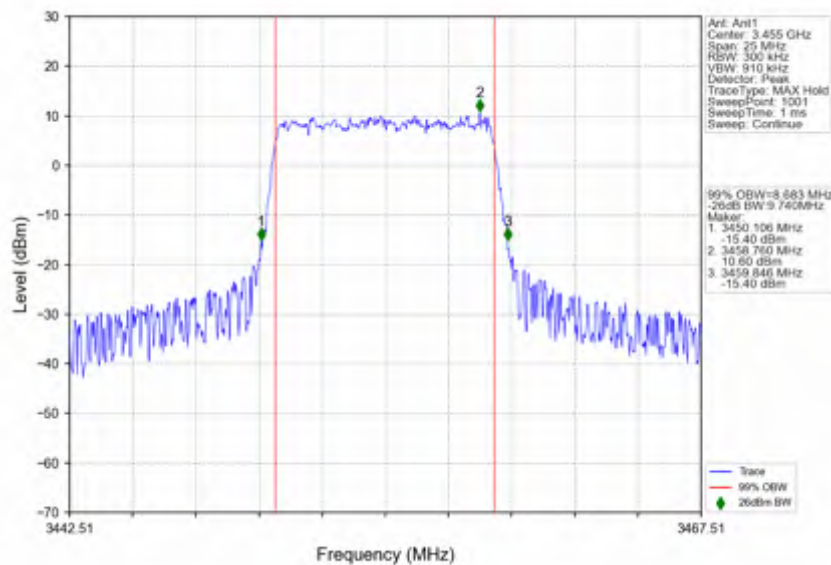
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n78e_30kHz_SISO_NTNV_10MHz_CP-OFDM 16 QAM_3544.98MHz_Outer_Full



n78e_30kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_3455.01MHz_Outer_Full



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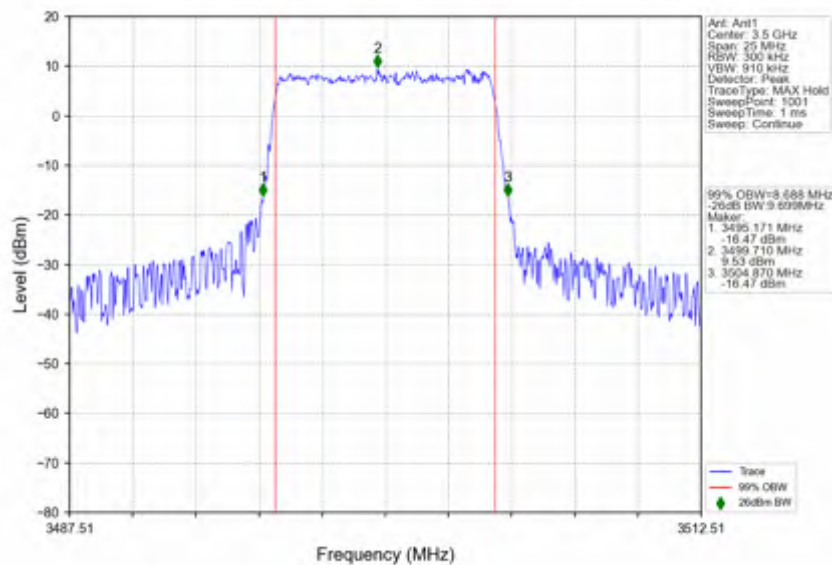
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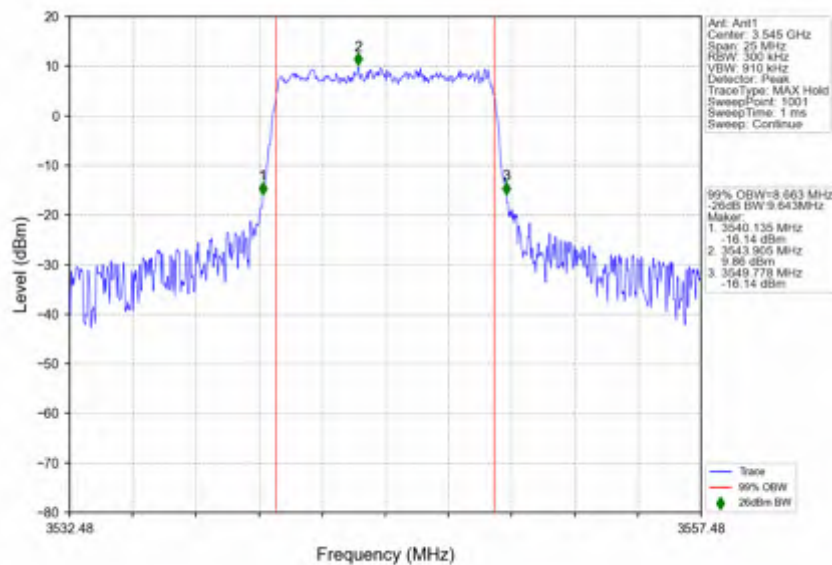
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n78e_30kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_3500.01MHz_Outer_Full



n78e_30kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_3544.98MHz_Outer_Full



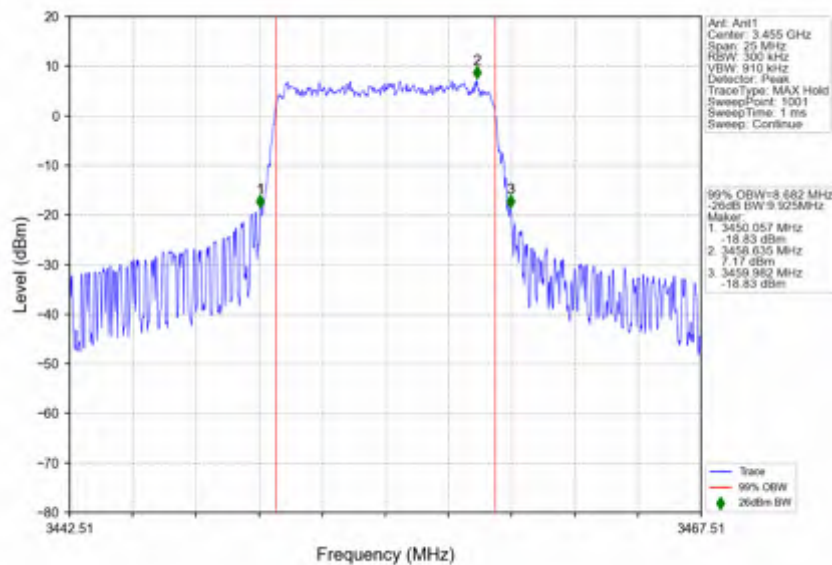
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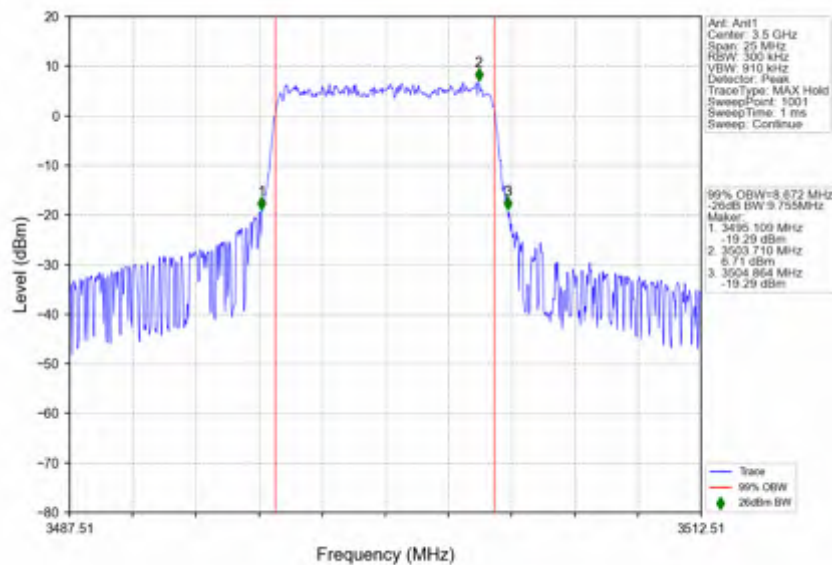
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n78e_30kHz_SISO_NTNV_10MHz_CP-OFDM_256_QAM_3455.01MHz_Outer_Full



n78e_30kHz_SISO_NTNV_10MHz_CP-OFDM_256_QAM_3500.01MHz_Outer_Full



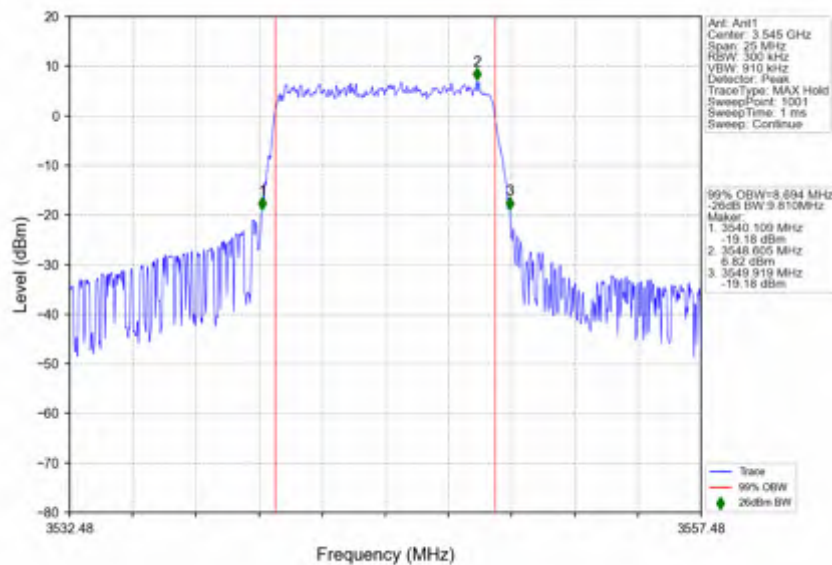
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n78e_30kHz_SISO_NTNV_10MHz_CP-OFDM_256_QAM_3544.98MHz_Outer_Full



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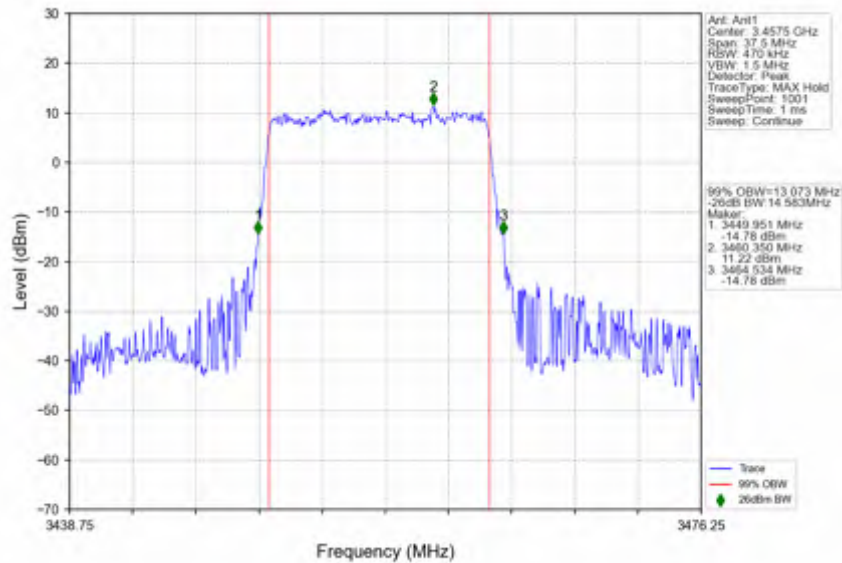
9.9 30k_SISO_15MHz_NTNV

9.9.1 Test Result

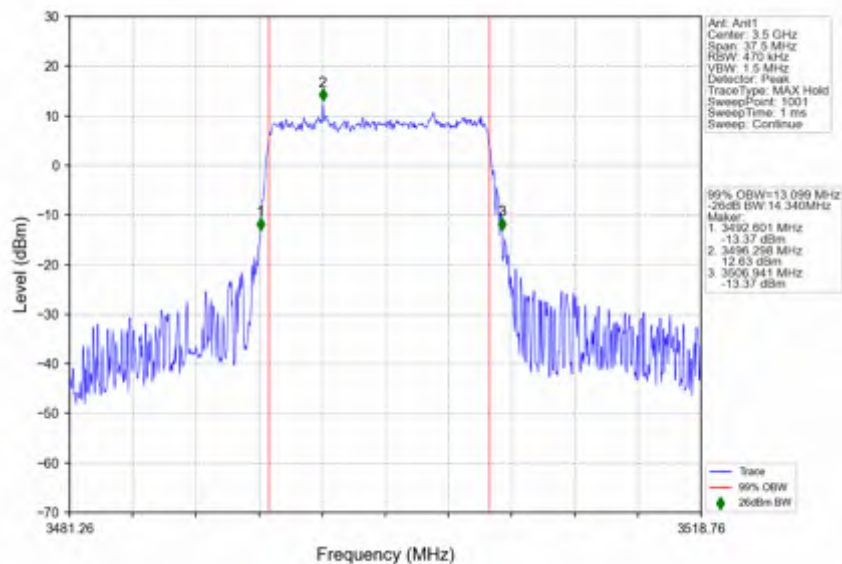
5G NR n78e SCS=30kHz SISO 15MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3457.5	Outer_Full	13.07	14.58	/	Pass
	3500.01	Outer_Full	13.10	14.34	/	Pass
	3542.49	Outer_Full	13.09	14.36	/	Pass
DFT-s-OFDM QPSK	3457.5	Outer_Full	13.04	14.32	/	Pass
	3500.01	Outer_Full	13.04	14.58	/	Pass
	3542.49	Outer_Full	13.04	14.42	/	Pass
DFT-s-OFDM 16 QAM	3457.5	Outer_Full	13.08	14.49	/	Pass
	3500.01	Outer_Full	13.10	14.64	/	Pass
	3542.49	Outer_Full	13.12	14.53	/	Pass
DFT-s-OFDM 64 QAM	3457.5	Outer_Full	13.17	14.91	/	Pass
	3500.01	Outer_Full	13.10	14.66	/	Pass
	3542.49	Outer_Full	13.11	14.58	/	Pass
DFT-s-OFDM 256 QAM	3457.5	Outer_Full	13.03	14.38	/	Pass
	3500.01	Outer_Full	13.05	14.62	/	Pass
	3542.49	Outer_Full	13.04	14.34	/	Pass
CP-OFDM QPSK	3457.5	Outer_Full	13.70	15.10	/	Pass
	3500.01	Outer_Full	13.70	14.99	/	Pass
	3542.49	Outer_Full	13.70	15.07	/	Pass
CP-OFDM 16 QAM	3457.5	Outer_Full	13.69	15.85	/	Pass
	3500.01	Outer_Full	13.69	14.95	/	Pass
	3542.49	Outer_Full	13.75	15.28	/	Pass
CP-OFDM 64 QAM	3457.5	Outer_Full	13.68	15.01	/	Pass
	3500.01	Outer_Full	13.68	14.83	/	Pass
	3542.49	Outer_Full	13.71	15.12	/	Pass
CP-OFDM 256 QAM	3457.5	Outer_Full	13.70	15.06	/	Pass
	3500.01	Outer_Full	13.70	15.05	/	Pass
	3542.49	Outer_Full	13.71	15.07	/	Pass

9.9.2 Test Graph

n78e 30kHz SISO NTN 15MHz DFT-s-OFDM PI/2 BPSK 3457.5MHz Outer Full



n78e	30kHz	SISO	NTNV	15MHz	DFT-s-OFDM	PI/2 BPSK	3500.01MHz	Outer	Full
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