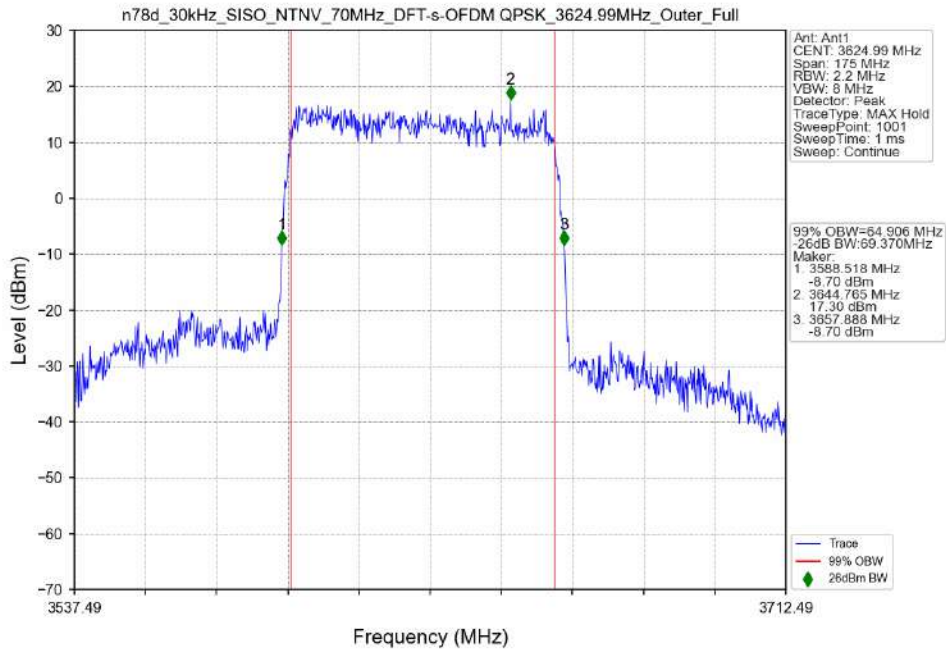
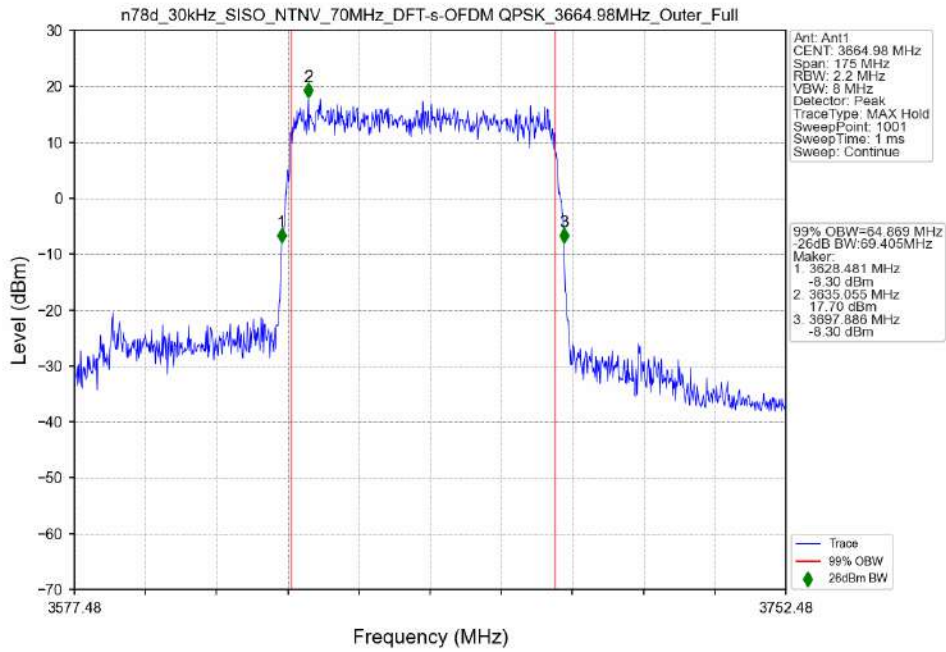


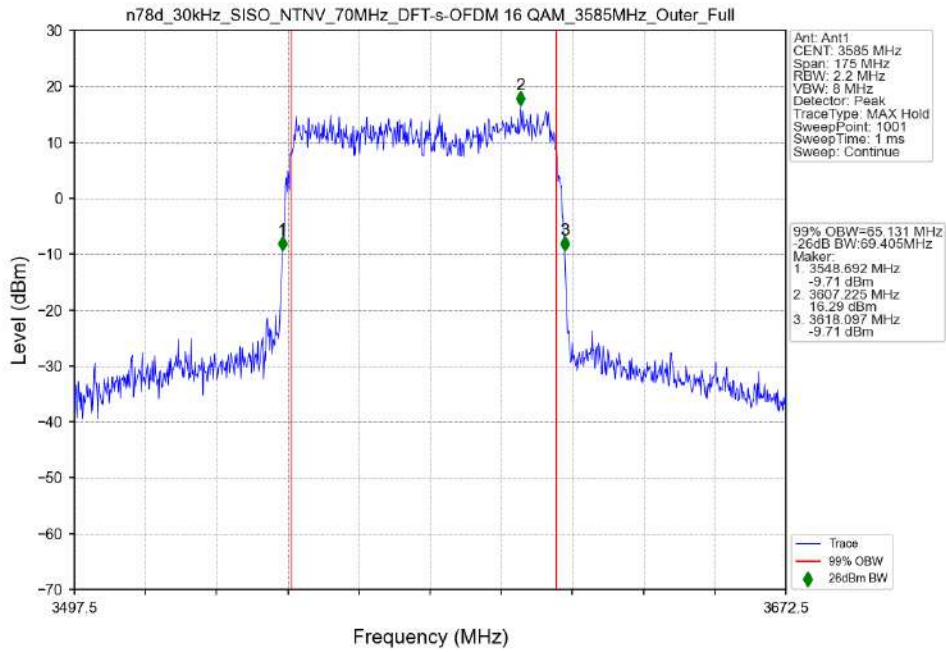
n78d\_30kHz\_SISO\_NTNV\_70MHz\_DFT-s-OFDM QPSK\_3624.99MHz\_Outer\_Full



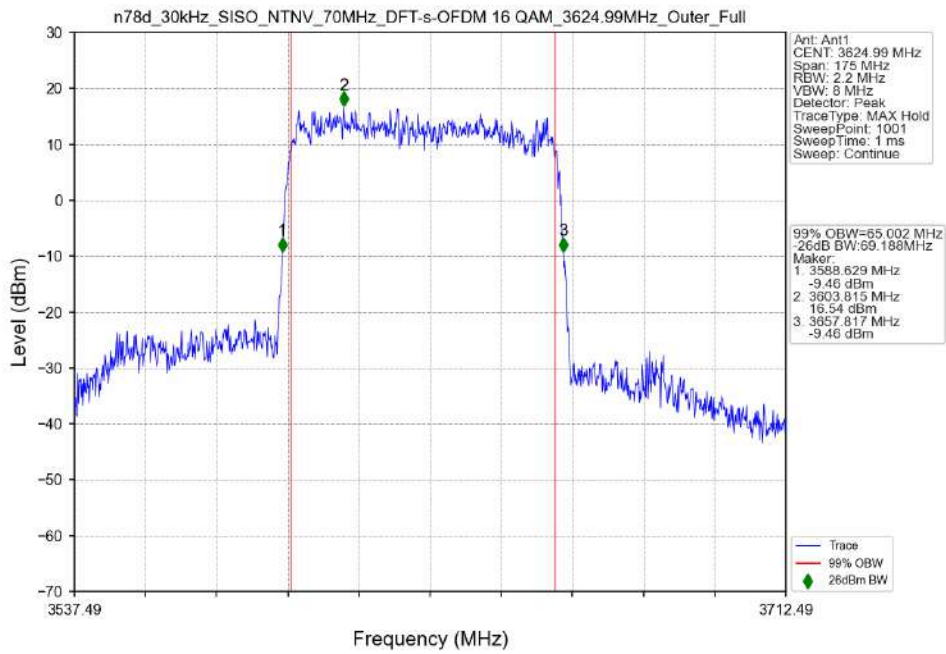
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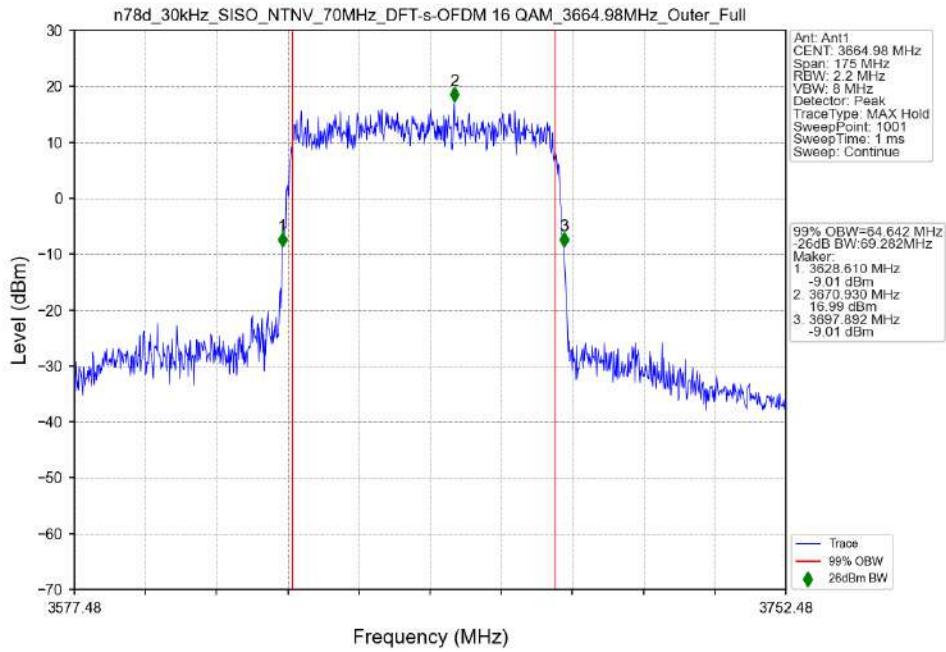
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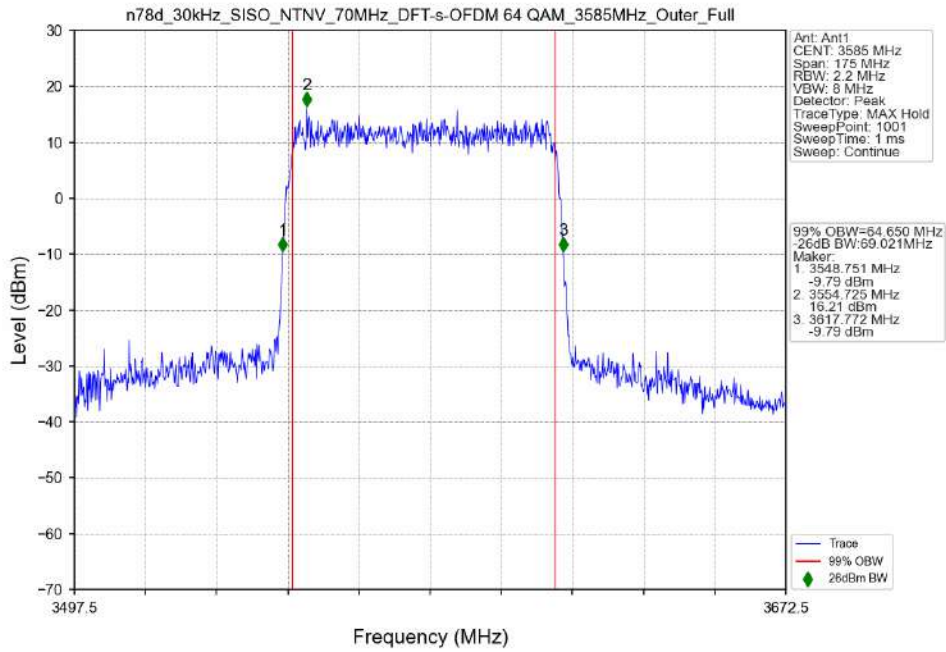
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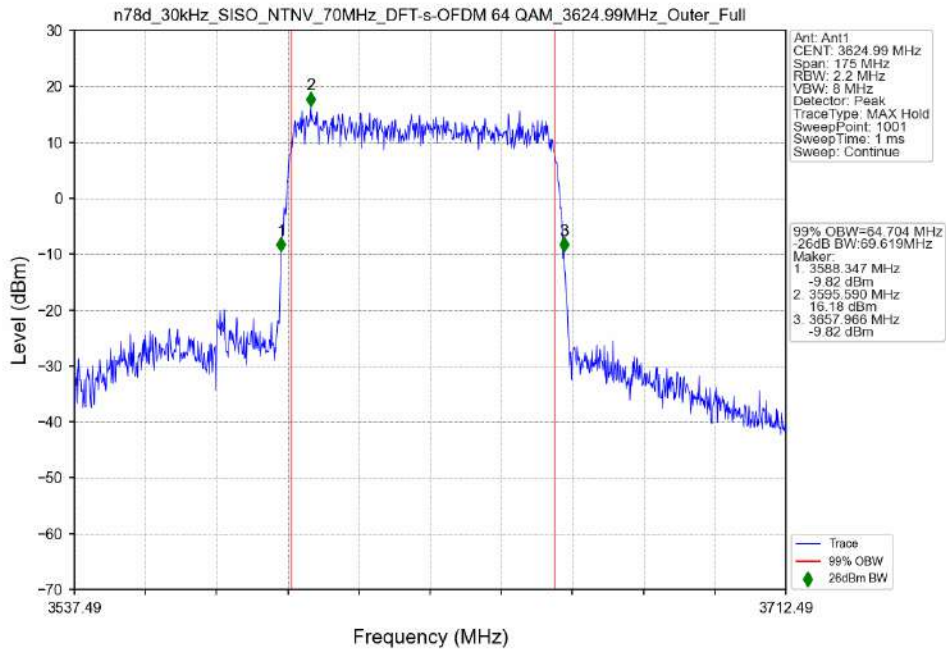
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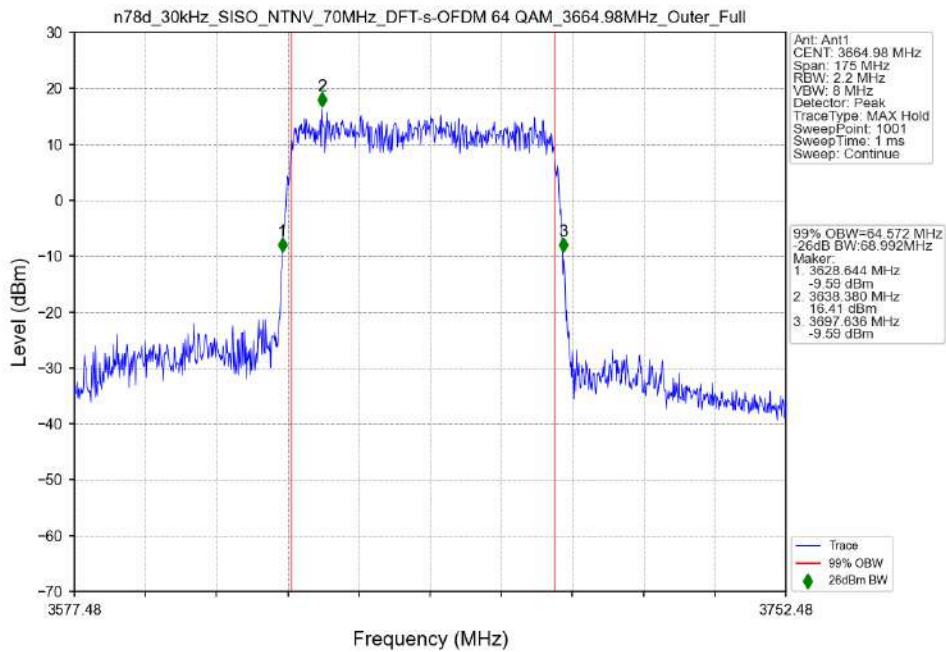
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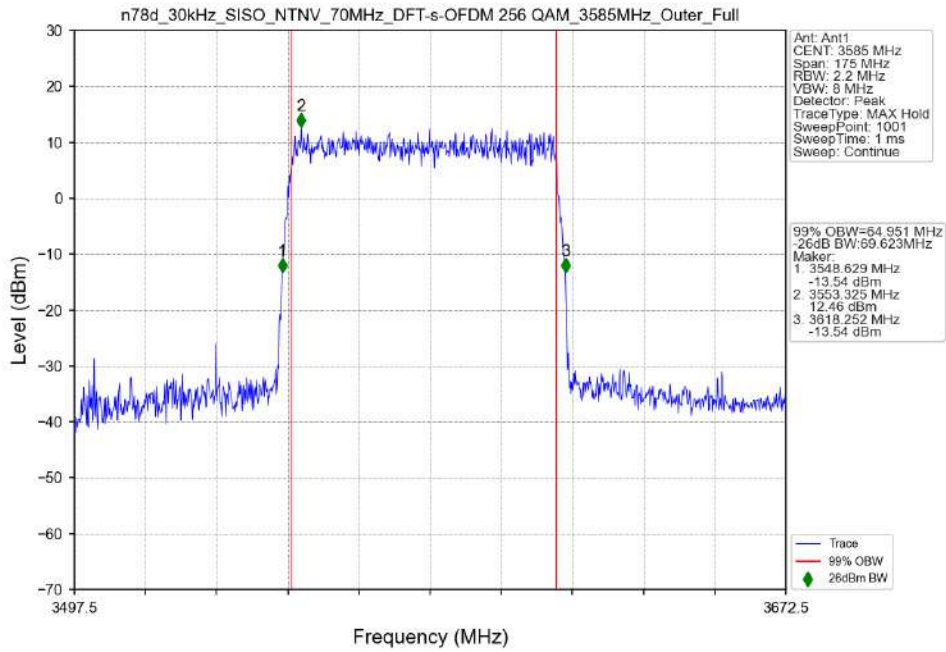
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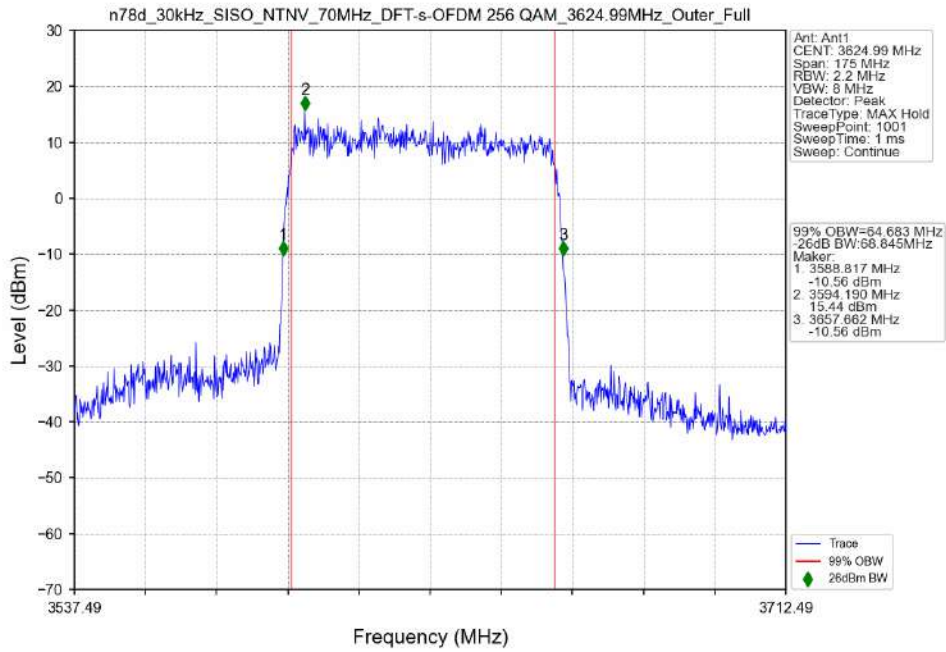
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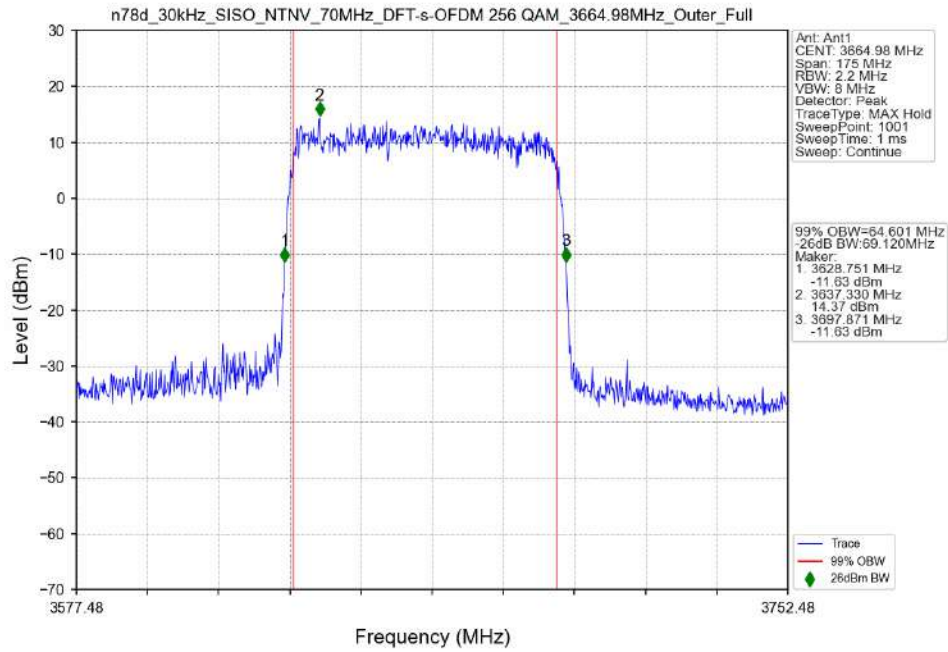
n78d\_30kHz\_SISO\_NTNV\_70MHz\_DFT-s-OFDM 256 QAM\_3585MHz\_Outer\_Full



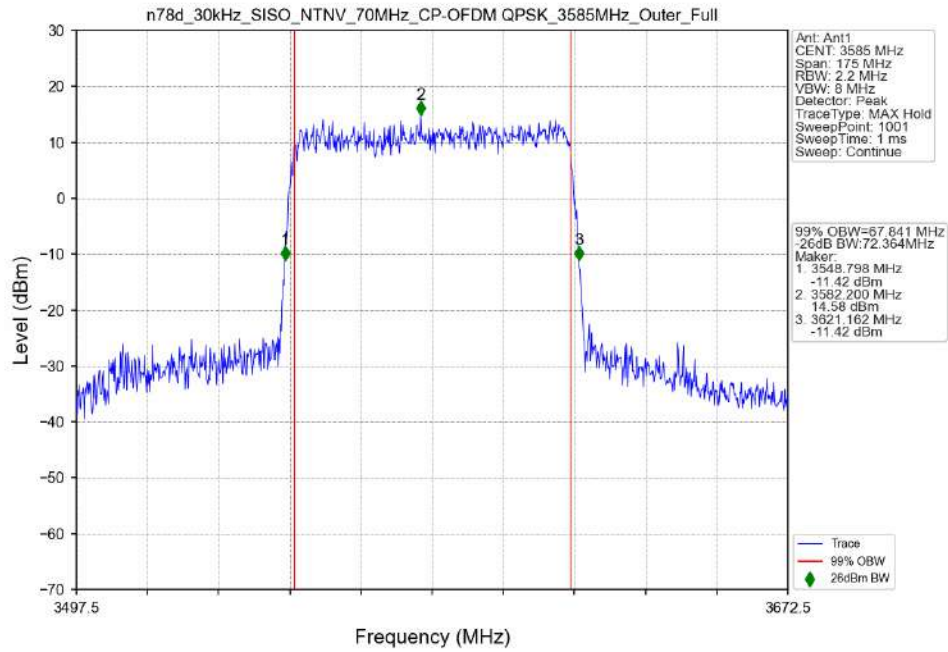
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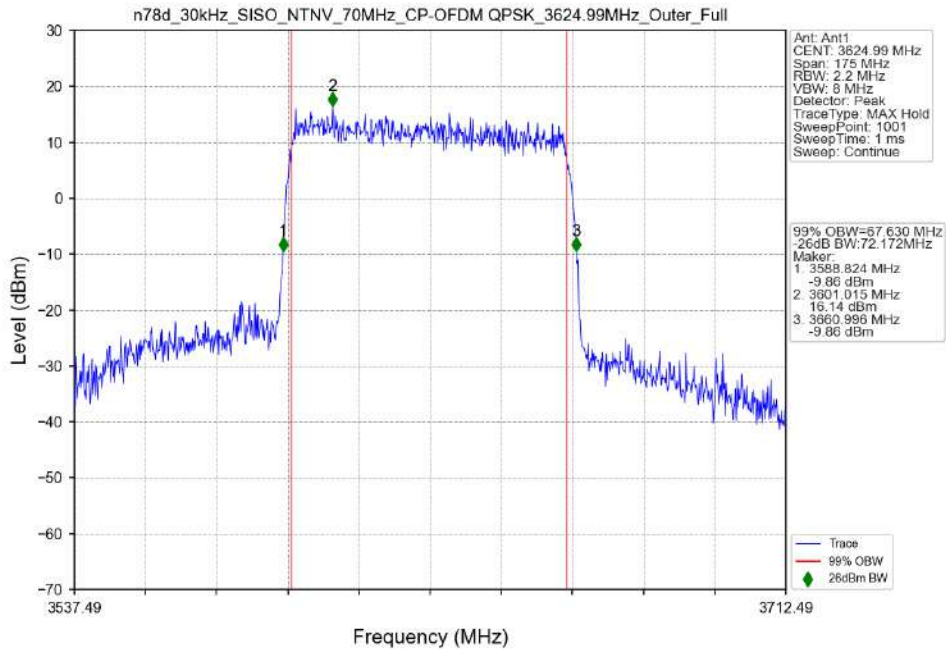
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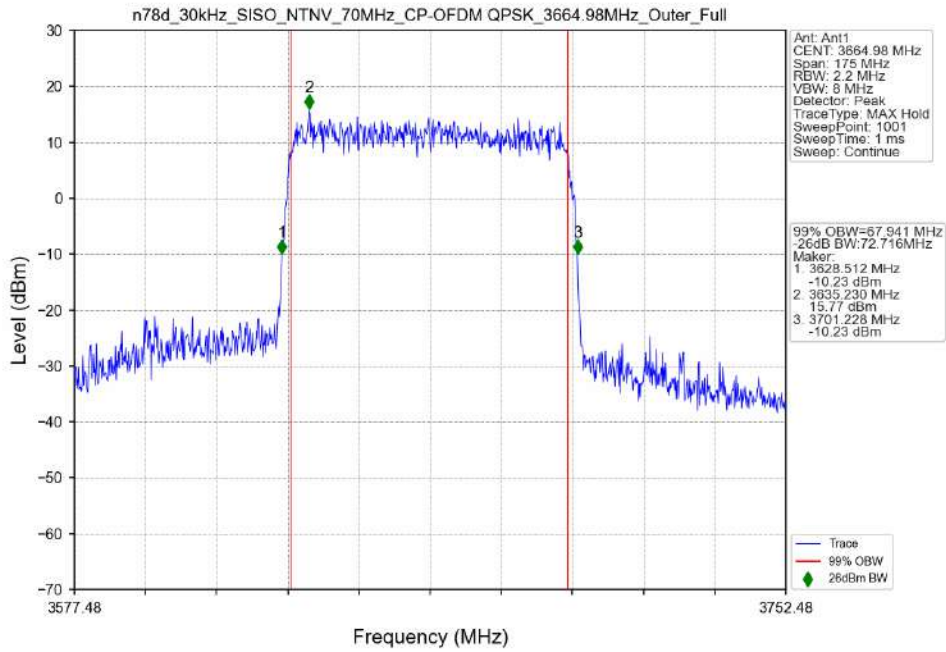
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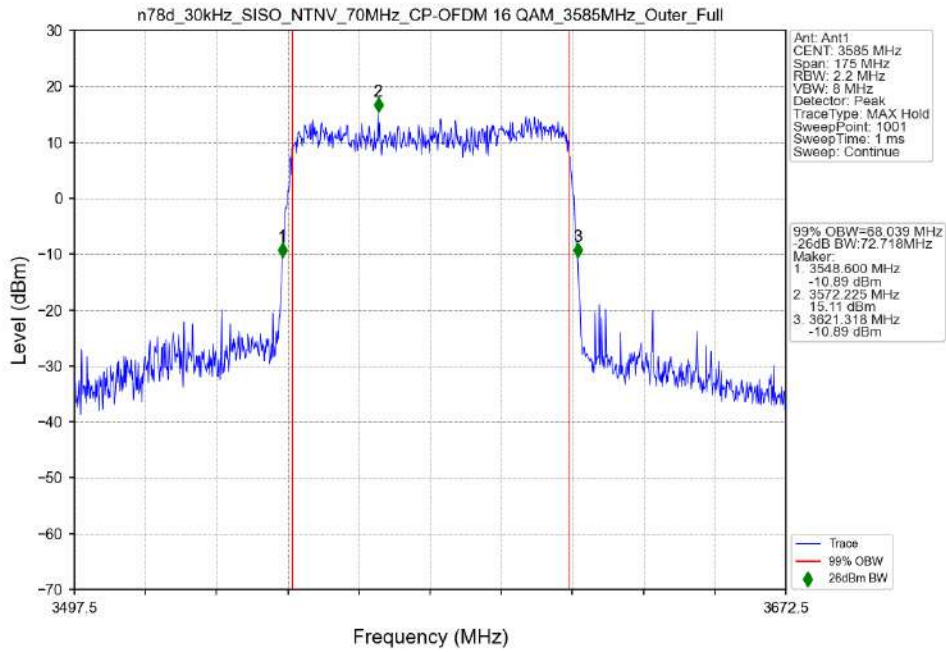
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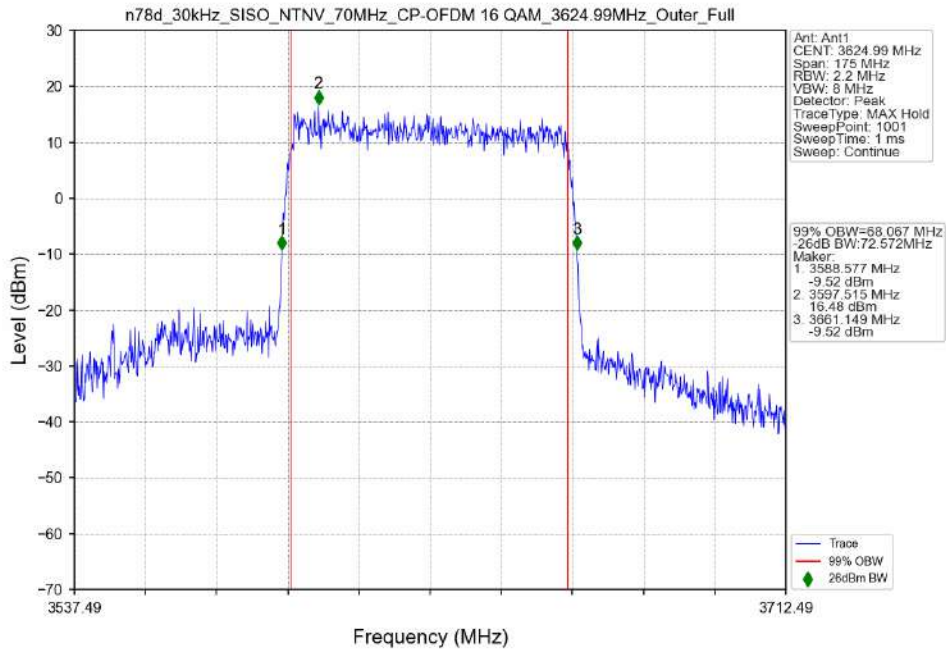
n78d\_30kHz\_SISO\_NTNV\_70MHz\_CP-OFDM QPSK\_3664.98MHz\_Outer\_Full



n78d\_30kHz\_SISO\_NTNV\_70MHz\_CP-OFDM 16 QAM\_3585MHz\_Outer\_Full

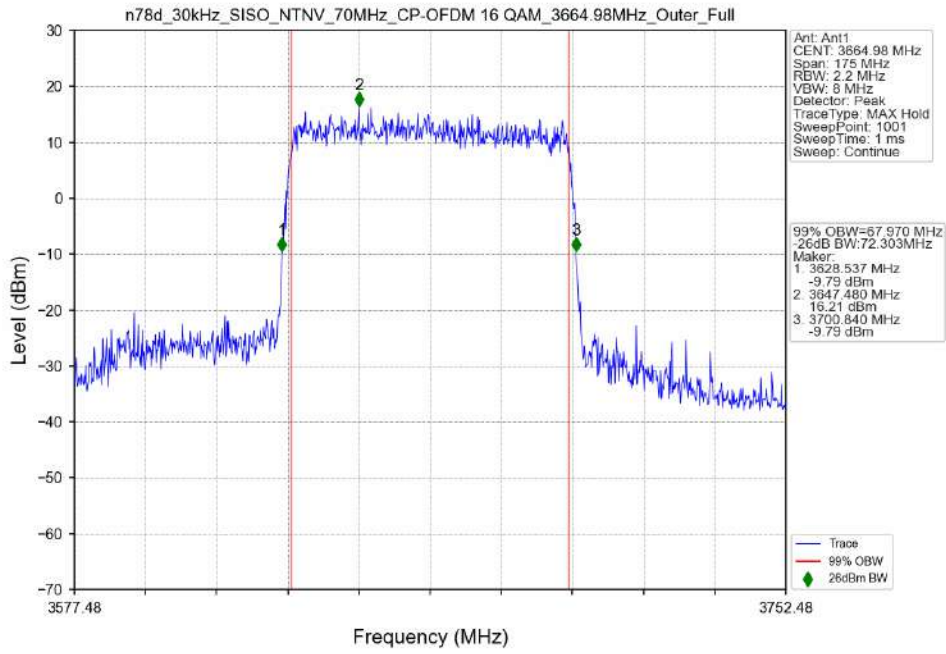


n78d\_30kHz\_SISO\_NTNV\_70MHz\_CP-OFDM 16 QAM\_3624.99MHz\_Outer\_Full

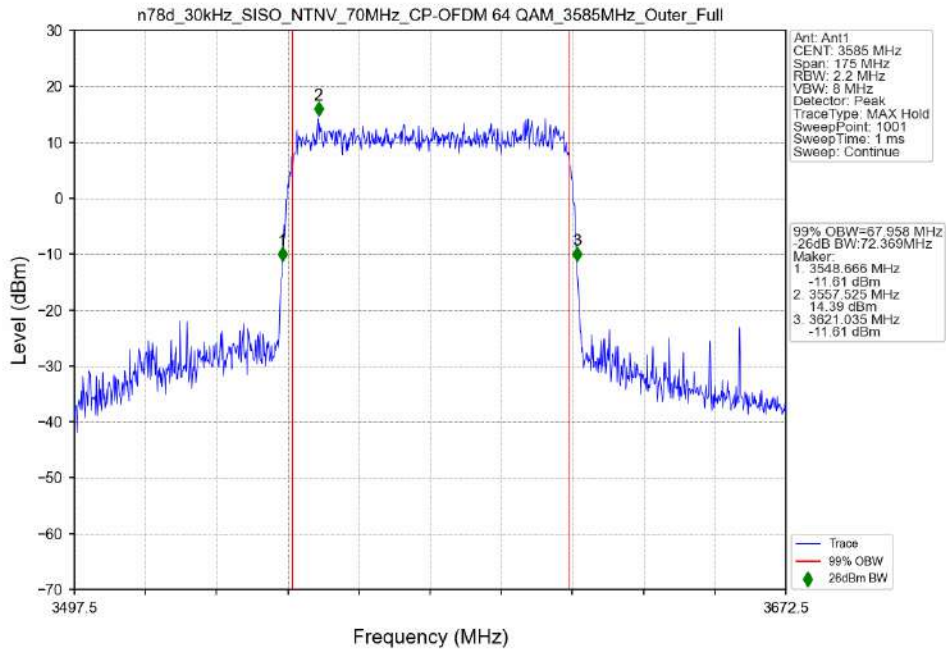




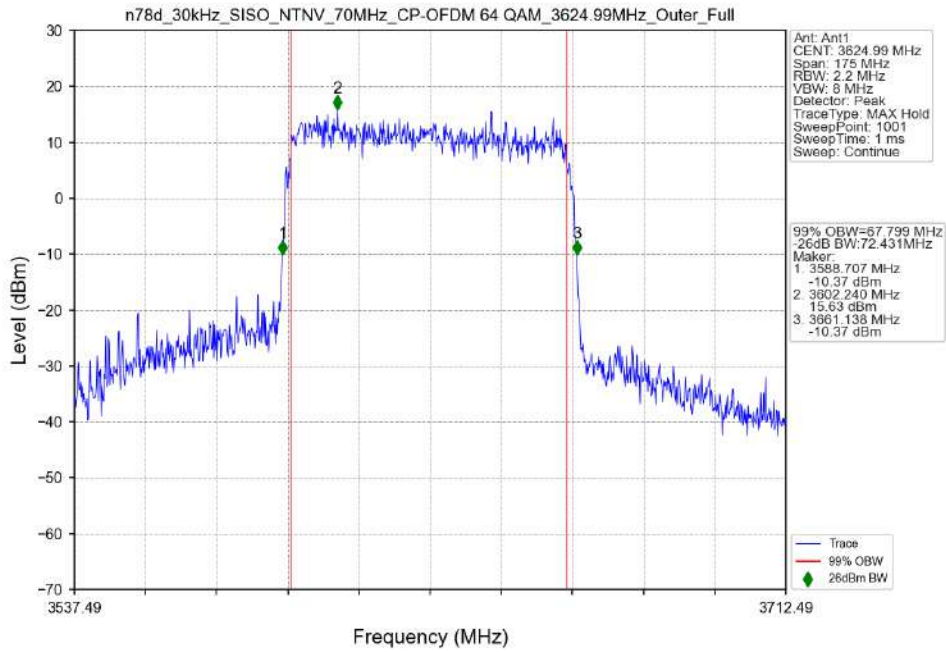
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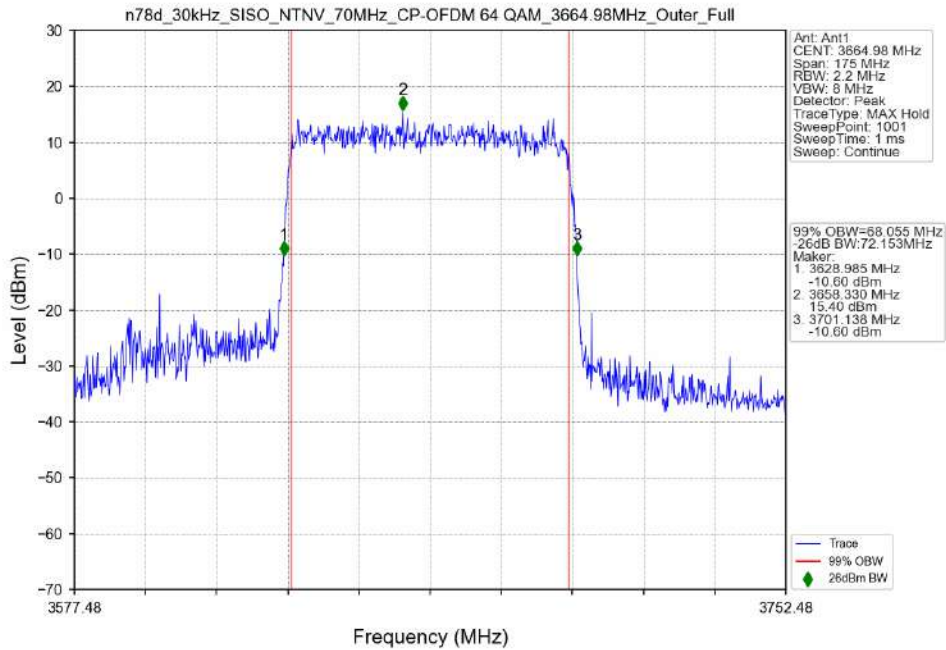
n78d\_30kHz\_SISO\_NTNV\_70MHz\_CP-OFDM 64 QAM\_3585MHz\_Outer\_Full



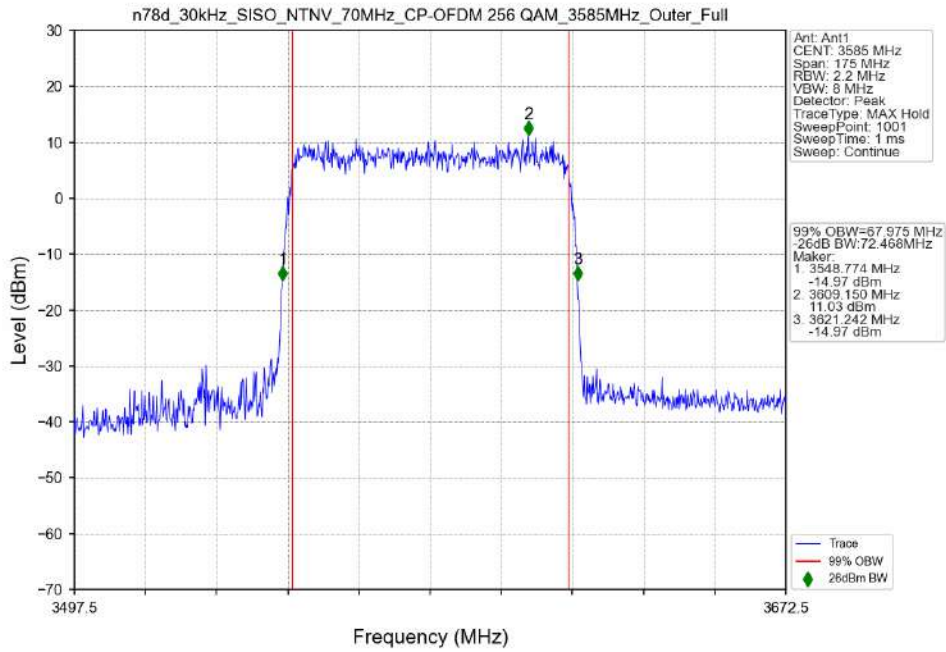
n78d\_30kHz\_SISO\_NTNV\_70MHz\_CP-OFDM 64 QAM\_3624.99MHz\_Outer\_Full



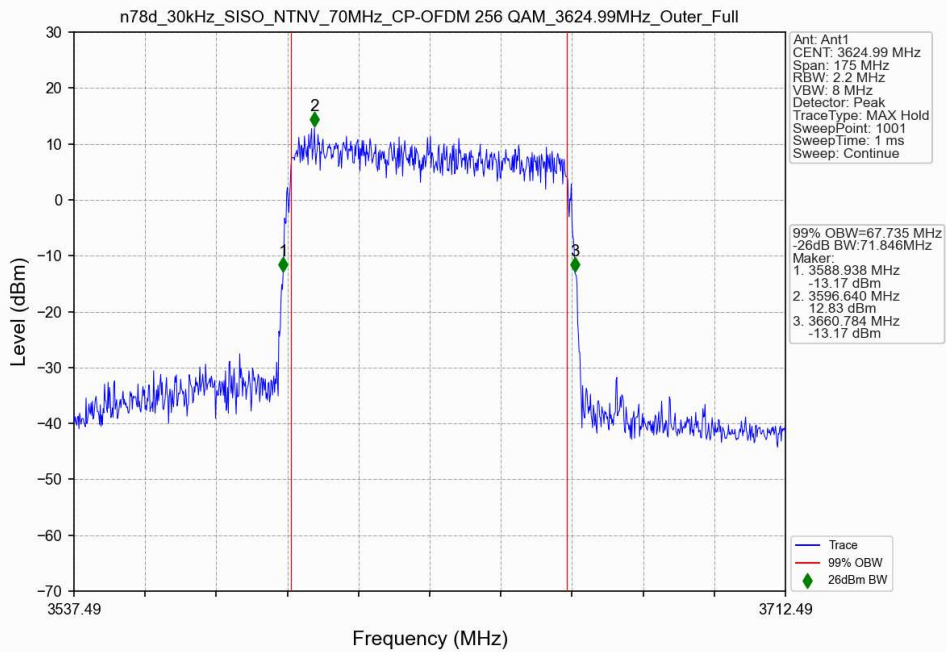
n78d\_30kHz\_SISO\_NTNV\_70MHz\_CP-OFDM 64 QAM\_3664.98MHz\_Outer\_Full



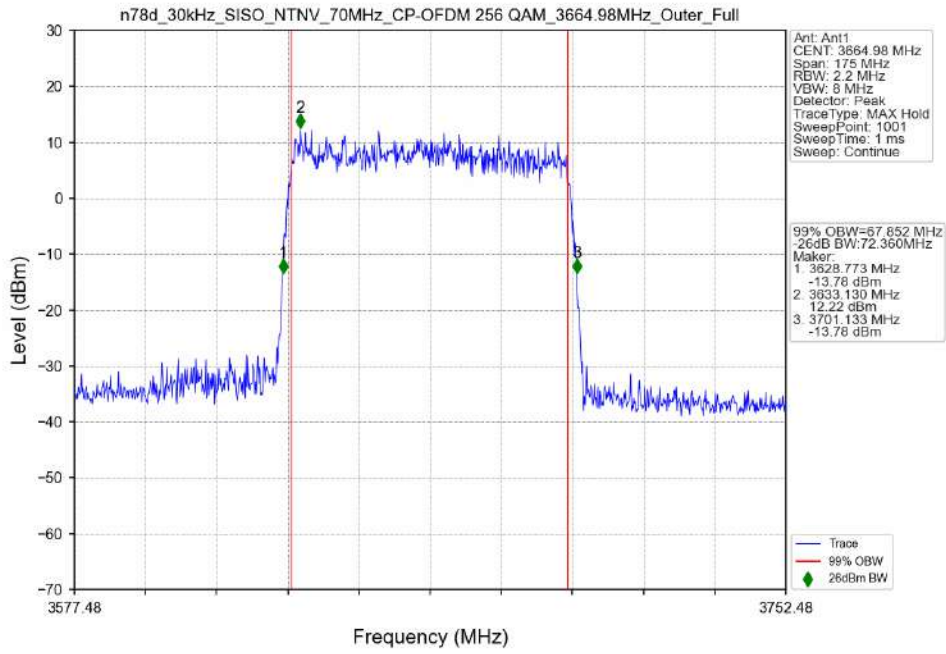
n78d\_30kHz\_SISO\_NTNV\_70MHz\_CP-OFDM 256 QAM\_3585MHz\_Outer\_Full



n78d\_30kHz\_SISO\_NTNV\_70MHz\_CP-OFDM 256 QAM\_3624.99MHz\_Outer\_Full



n78d\_30kHz\_SISO\_NTNV\_70MHz\_CP-OFDM 256 QAM 3664.98MHz\_Outer\_Full

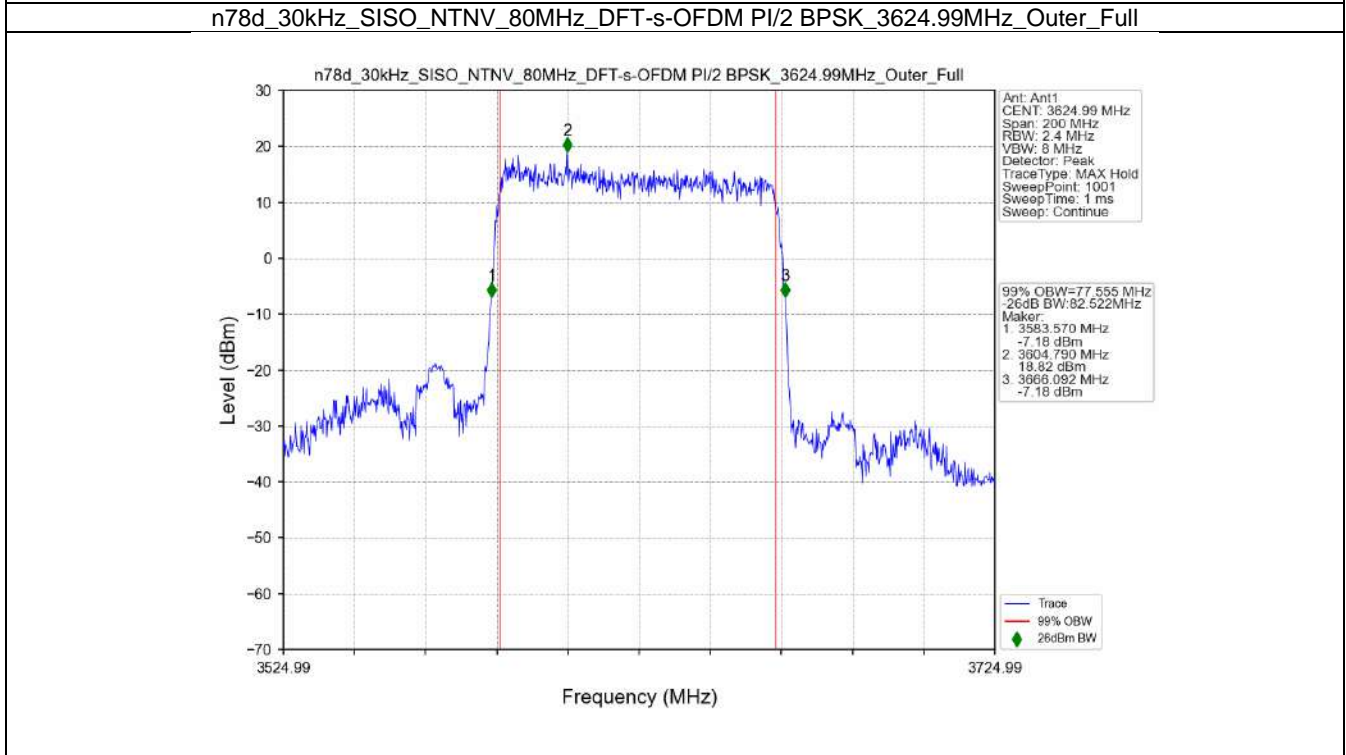
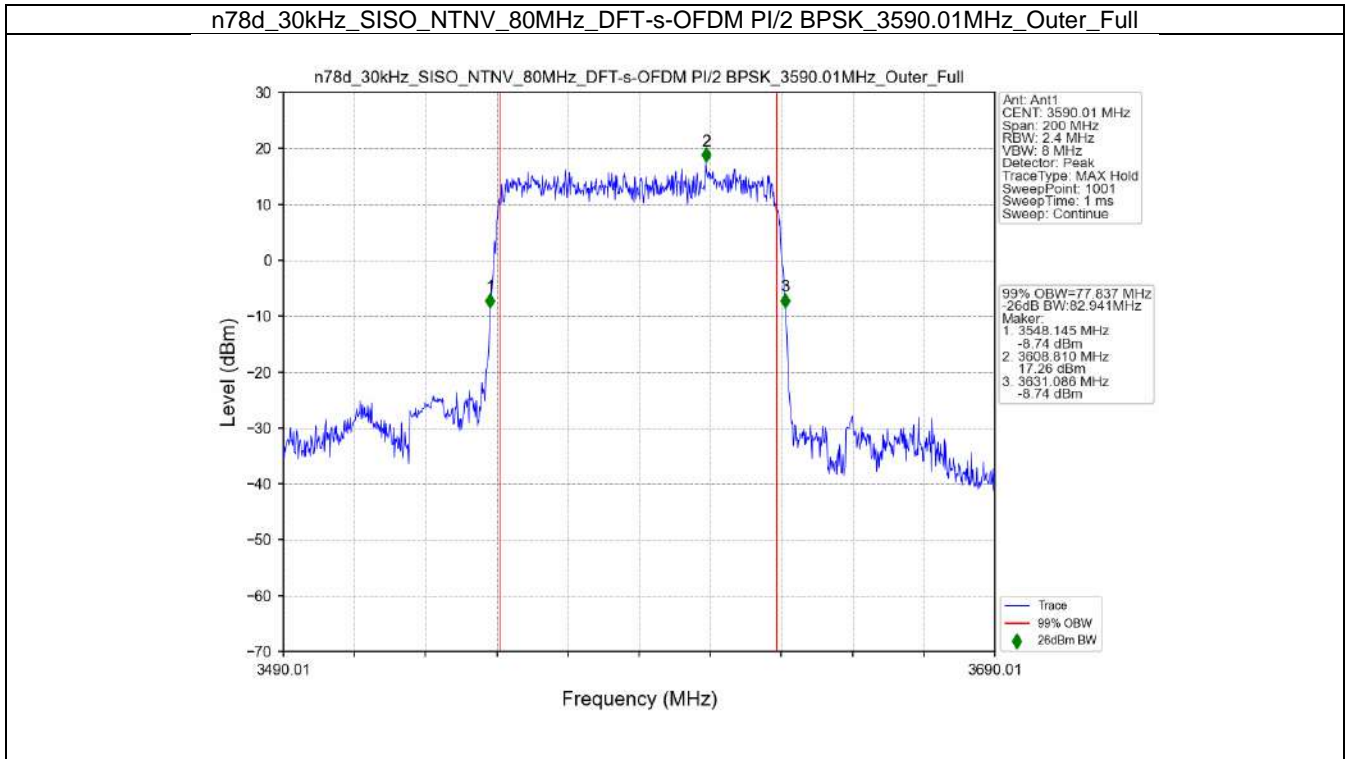


### 3.7 30k\_SISO\_80MHz\_NTNV

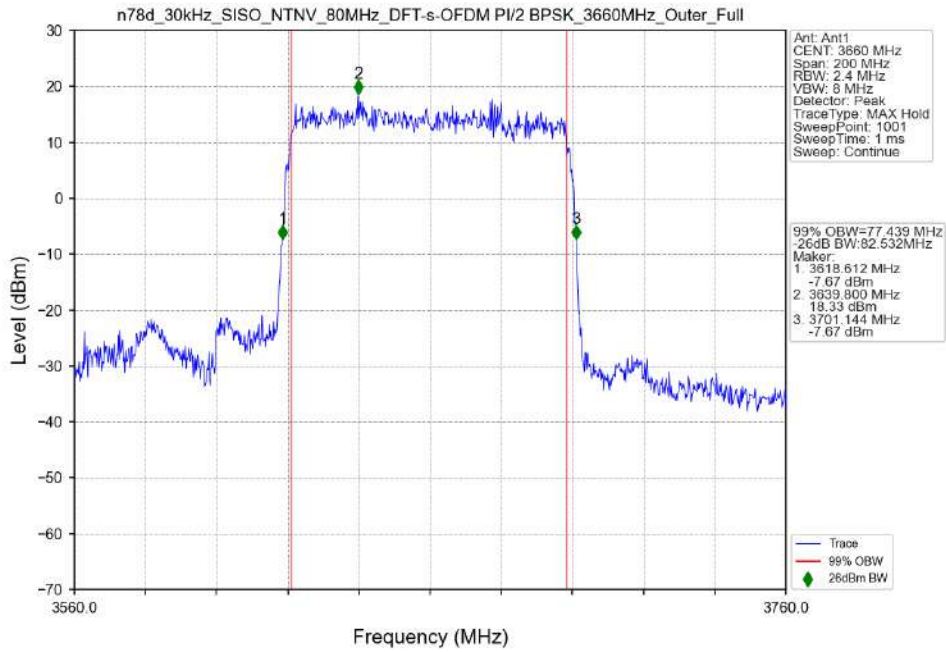
#### 3.7.1 Test Result

5G NR n78d SCS=30kHz SISO 80MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3590.01	Outer_Full	77.84	82.94	/	Pass
	3624.99	Outer_Full	77.56	82.52	/	Pass
	3660	Outer_Full	77.44	82.53	/	Pass
DFT-s-OFDM QPSK	3590.01	Outer_Full	77.91	82.73	/	Pass
	3624.99	Outer_Full	77.92	82.65	/	Pass
	3660	Outer_Full	77.38	82.86	/	Pass
DFT-s-OFDM 16 QAM	3590.01	Outer_Full	77.47	82.58	/	Pass
	3624.99	Outer_Full	78.00	82.63	/	Pass
	3660	Outer_Full	77.71	82.69	/	Pass
DFT-s-OFDM 64 QAM	3590.01	Outer_Full	77.97	82.52	/	Pass
	3624.99	Outer_Full	77.85	82.66	/	Pass
	3660	Outer_Full	77.59	83.04	/	Pass
DFT-s-OFDM 256 QAM	3590.01	Outer_Full	77.69	82.63	/	Pass
	3624.99	Outer_Full	77.56	81.90	/	Pass
	3660	Outer_Full	77.63	82.12	/	Pass
CP-OFDM QPSK	3590.01	Outer_Full	77.86	83.00	/	Pass
	3624.99	Outer_Full	78.05	83.26	/	Pass
	3660	Outer_Full	77.88	83.09	/	Pass
CP-OFDM 16 QAM	3590.01	Outer_Full	78.02	83.03	/	Pass
	3624.99	Outer_Full	77.81	83.29	/	Pass
	3660	Outer_Full	77.69	83.01	/	Pass
CP-OFDM 64 QAM	3590.01	Outer_Full	77.85	83.14	/	Pass
	3624.99	Outer_Full	77.85	82.72	/	Pass
	3660	Outer_Full	77.69	83.07	/	Pass
CP-OFDM 256 QAM	3590.01	Outer_Full	78.18	83.22	/	Pass
	3624.99	Outer_Full	77.99	82.89	/	Pass
	3660	Outer_Full	77.84	82.59	/	Pass

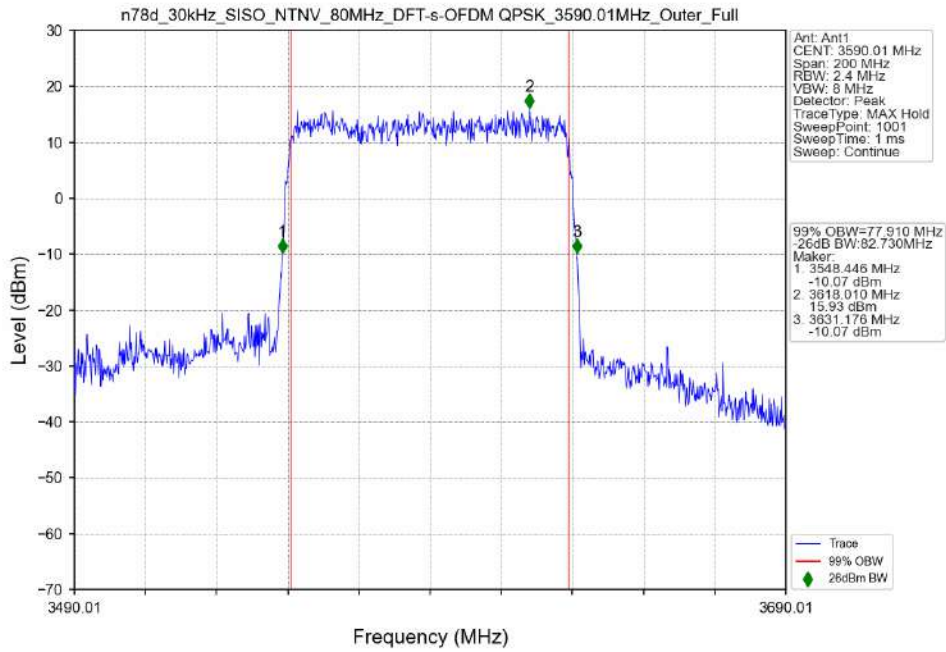
### 3.7.2 Test Graph



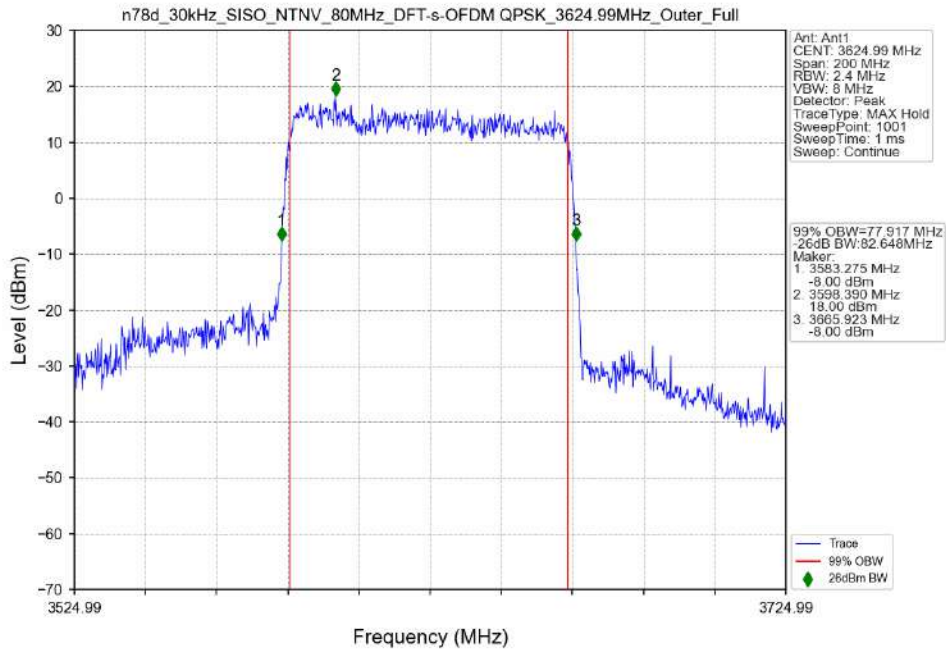
n78d\_30kHz\_SISO\_NTNV\_80MHz\_DFT-s-OFDM PI/2 BPSK\_3660MHz\_Outer\_Full



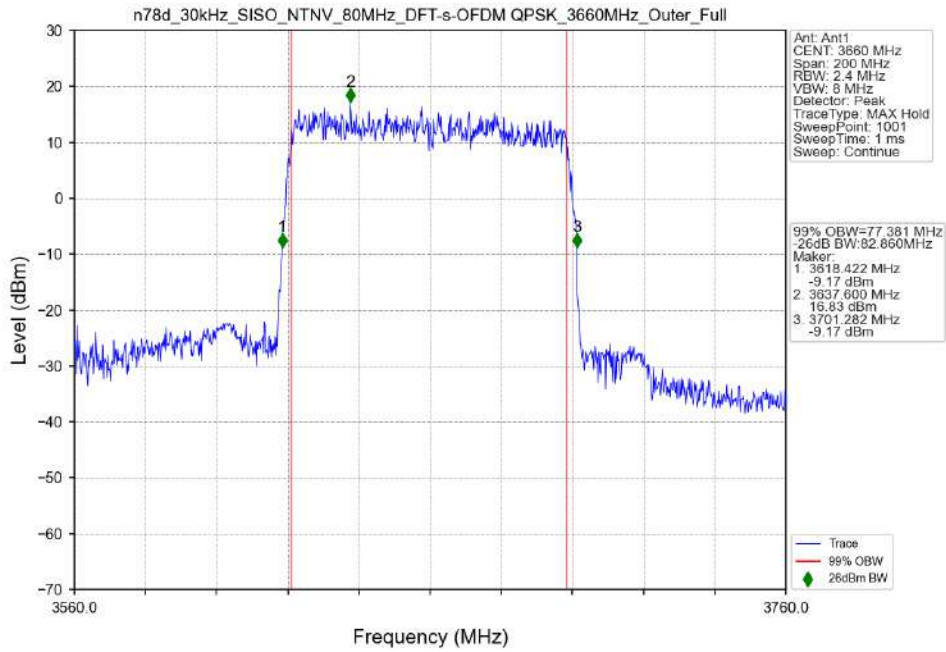
n78d\_30kHz\_SISO\_NTNV\_80MHz\_DFT-s-OFDM QPSK\_3590.01MHz\_Outer\_Full



n78d\_30kHz\_SISO\_NTNV\_80MHz\_DFT-s-OFDM QPSK\_3624.99MHz\_Outer\_Full

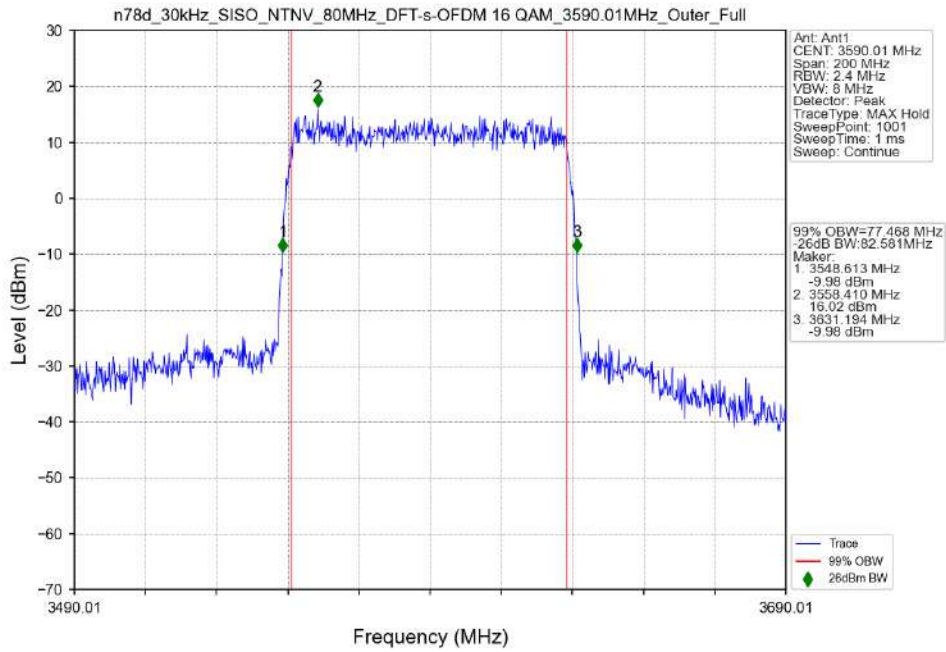


n78d\_30kHz\_SISO\_NTNV\_80MHz\_DFT-s-OFDM QPSK\_3660MHz\_Outer\_Full

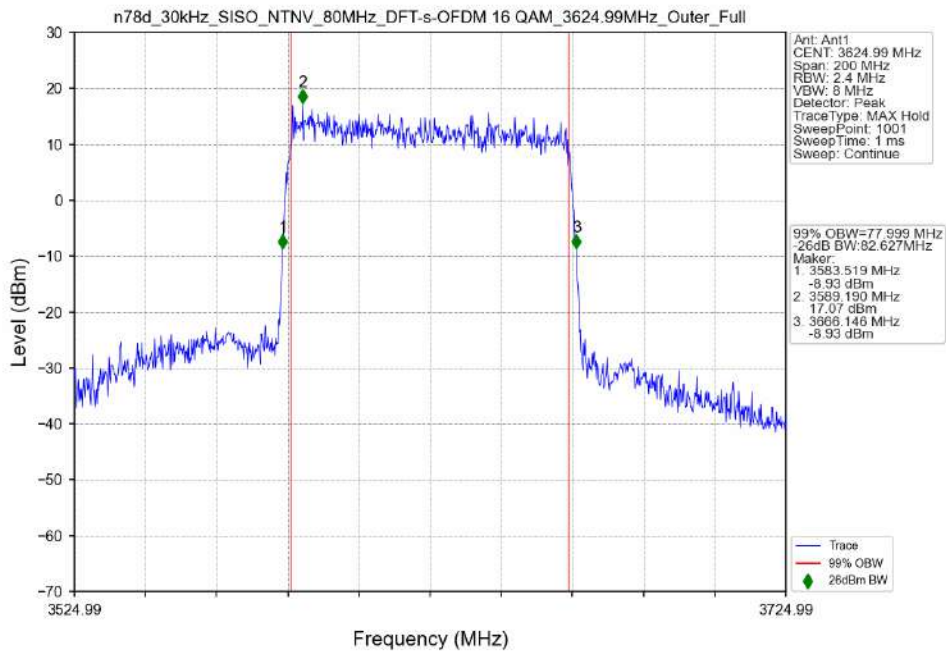




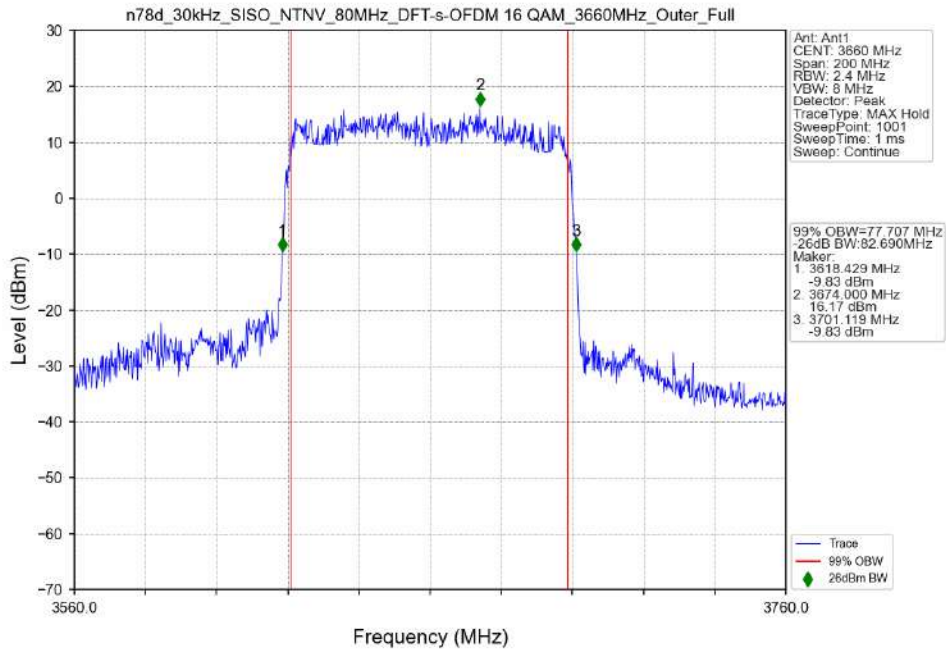
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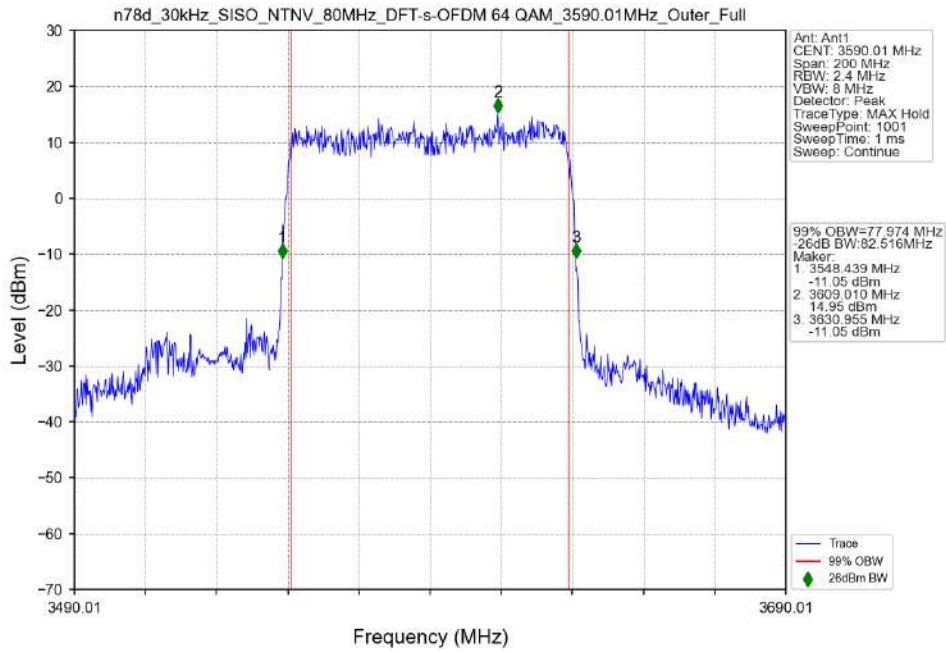
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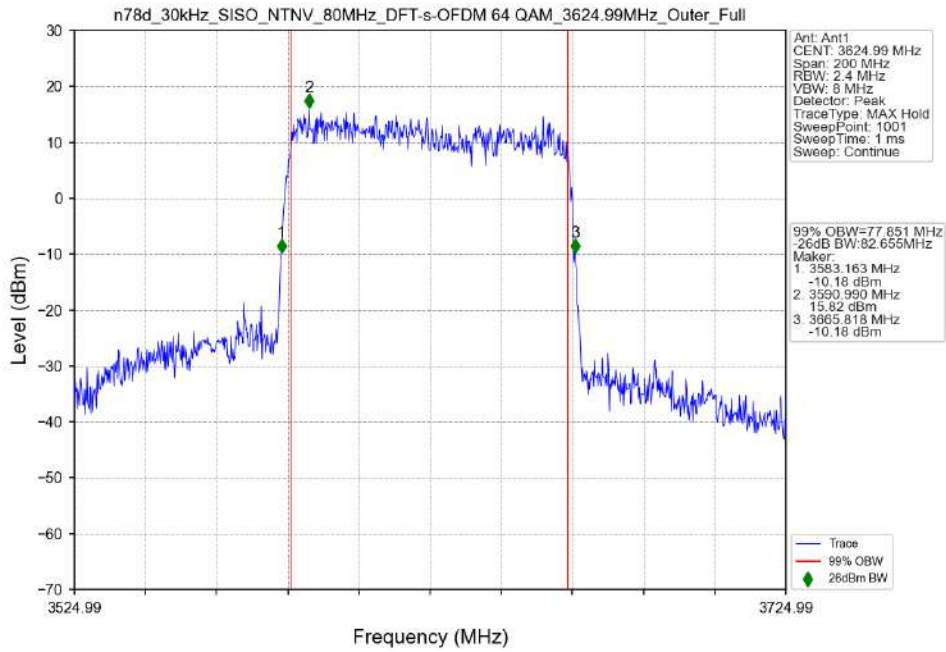
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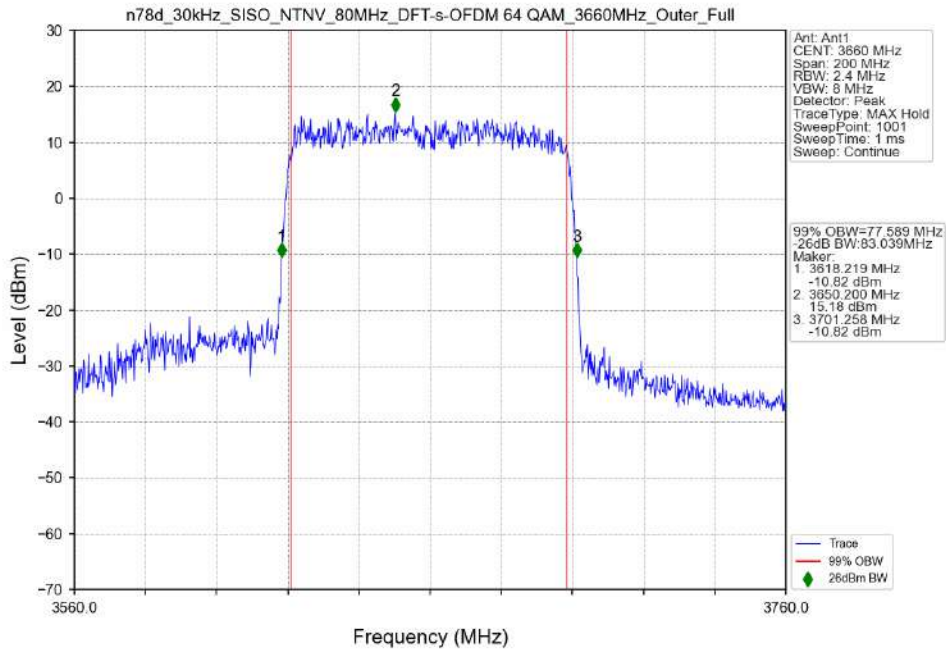
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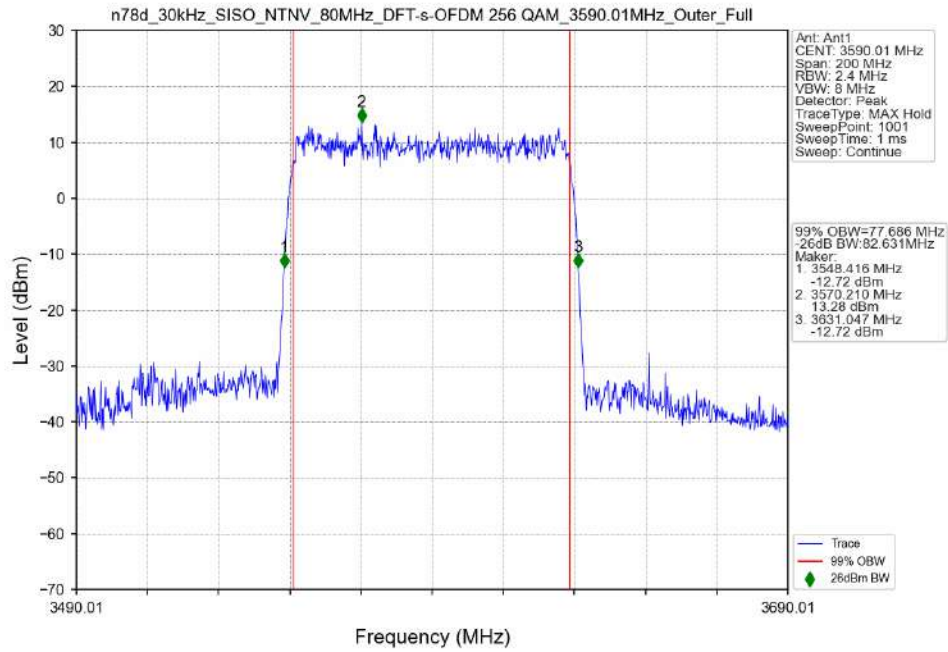
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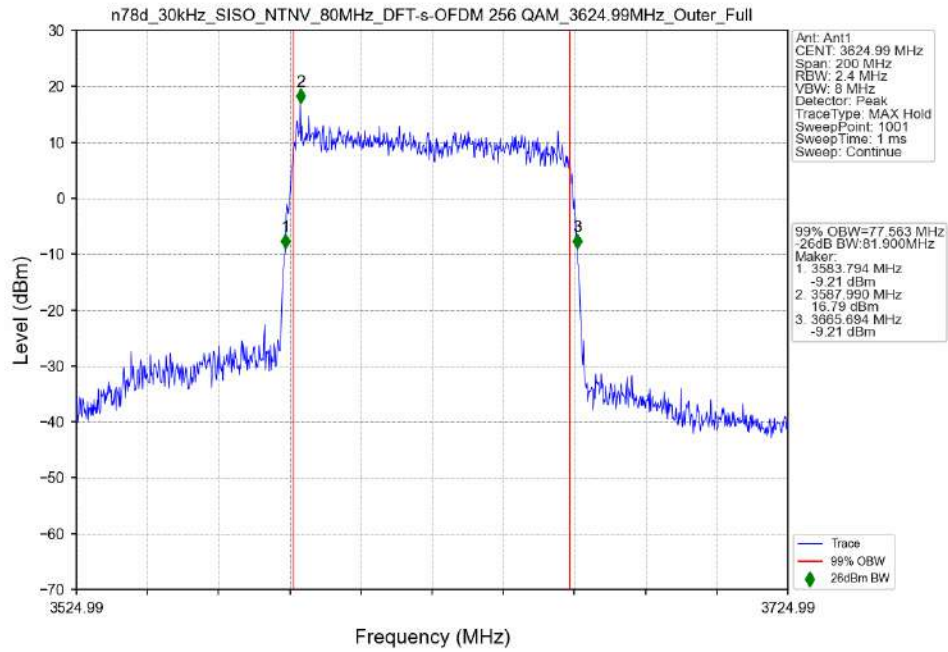
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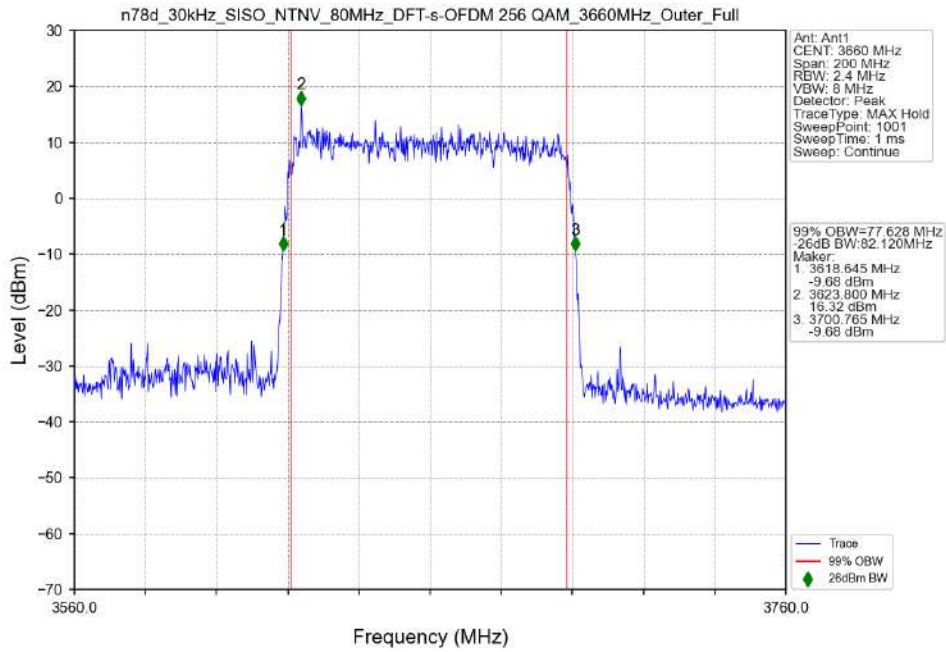
n78d\_30kHz\_SISO\_NTNV\_80MHz\_DFT-s-OFDM\_256\_QAM\_3590.01MHz\_Outer\_Full



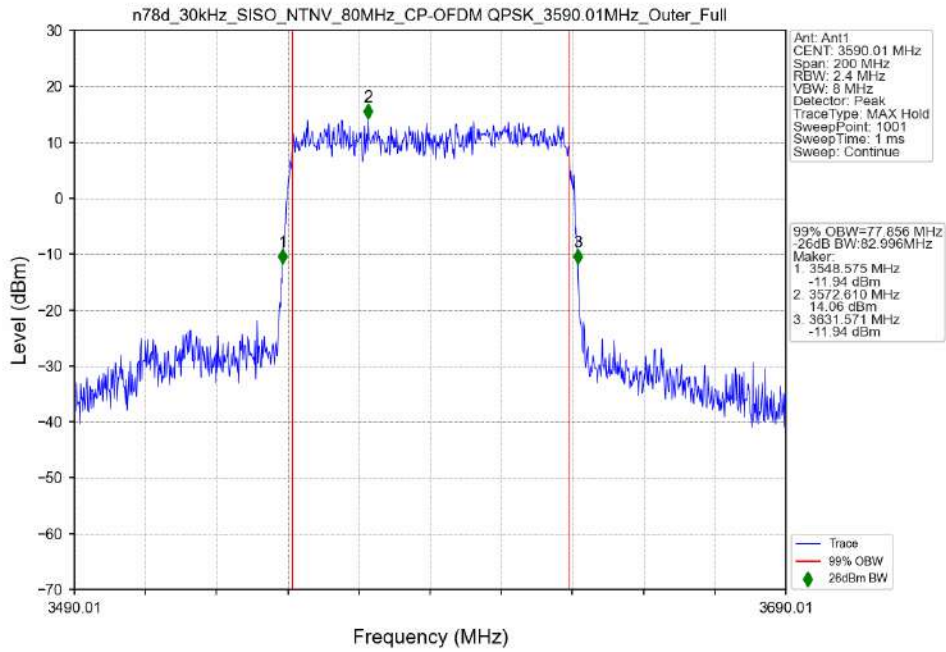
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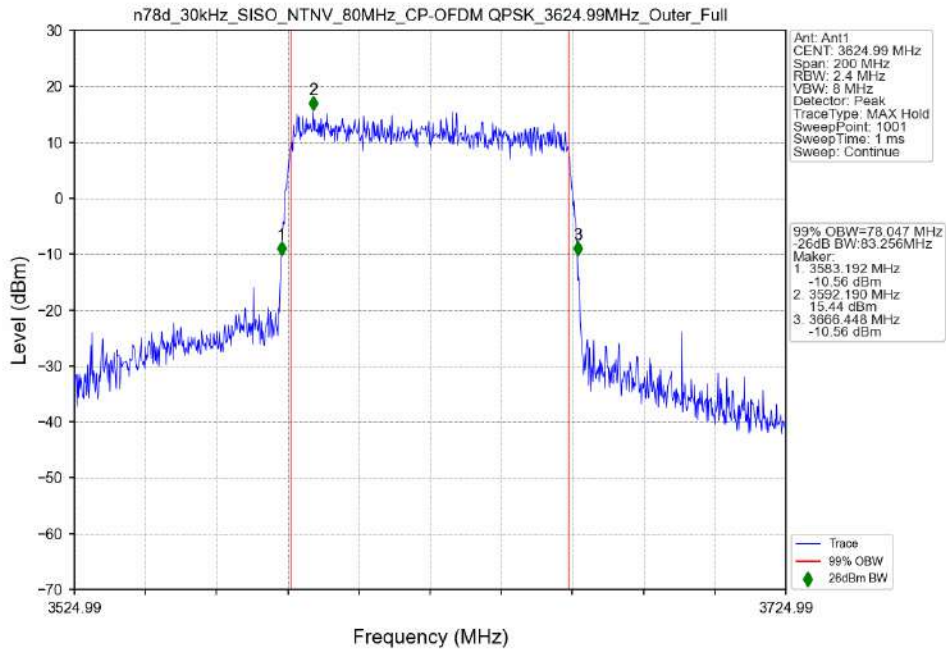
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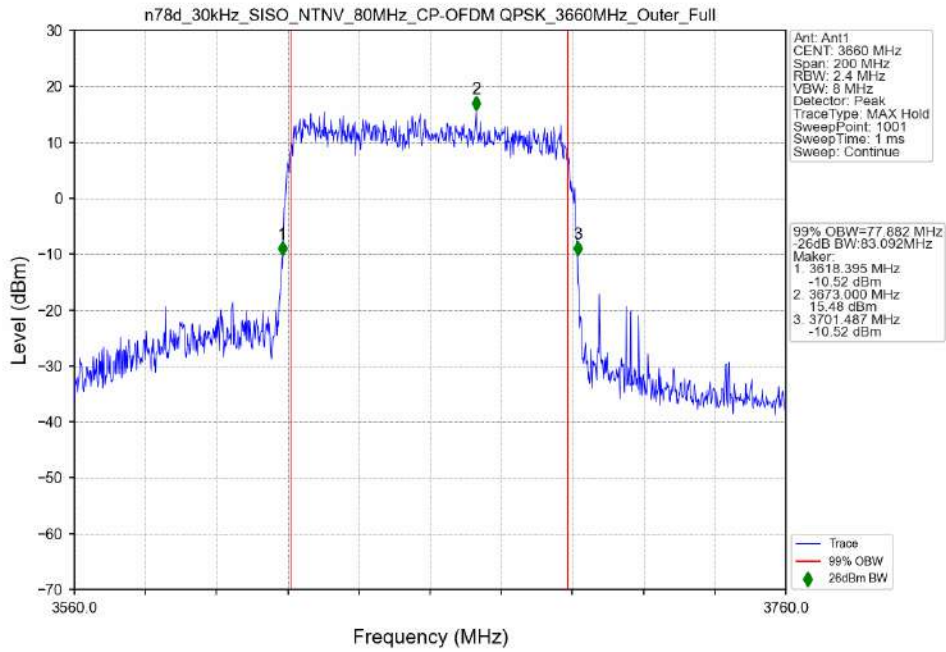
n78d\_30kHz\_SISO\_NTNV\_80MHz\_CP-OFDM QPSK\_3590.01MHz\_Outer\_Full



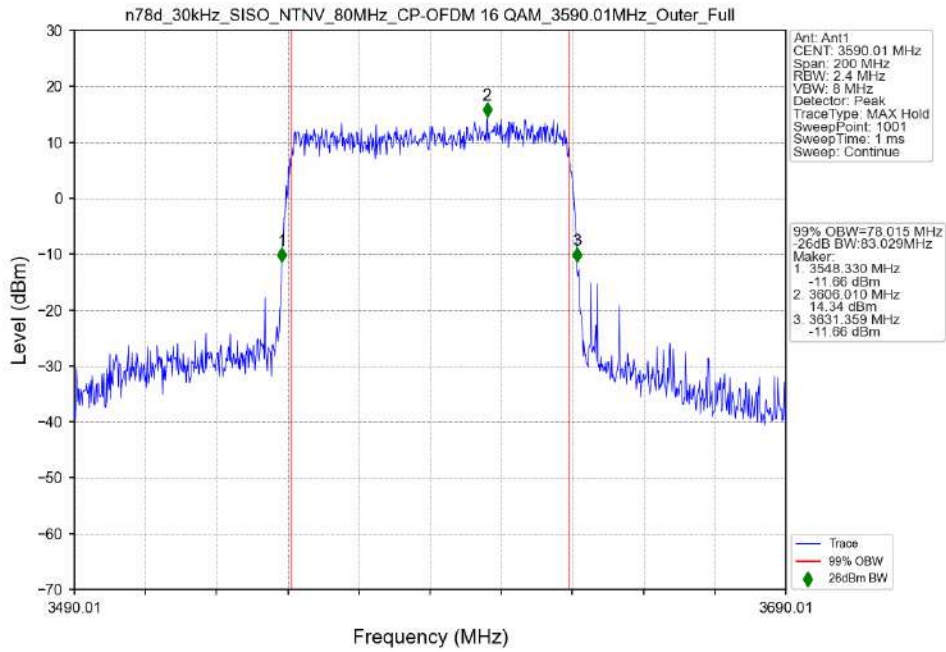
n78d\_30kHz\_SISO\_NTNV\_80MHz\_CP-OFDM QPSK\_3624.99MHz\_Outer\_Full



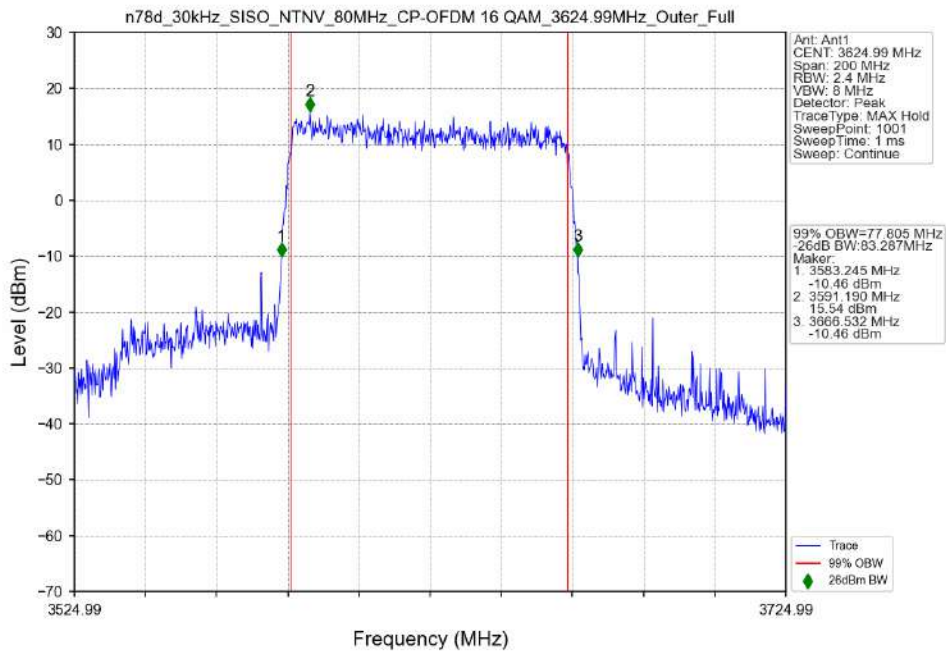
n78d\_30kHz\_SISO\_NTNV\_80MHz\_CP-OFDM QPSK\_3660MHz\_Outer\_Full



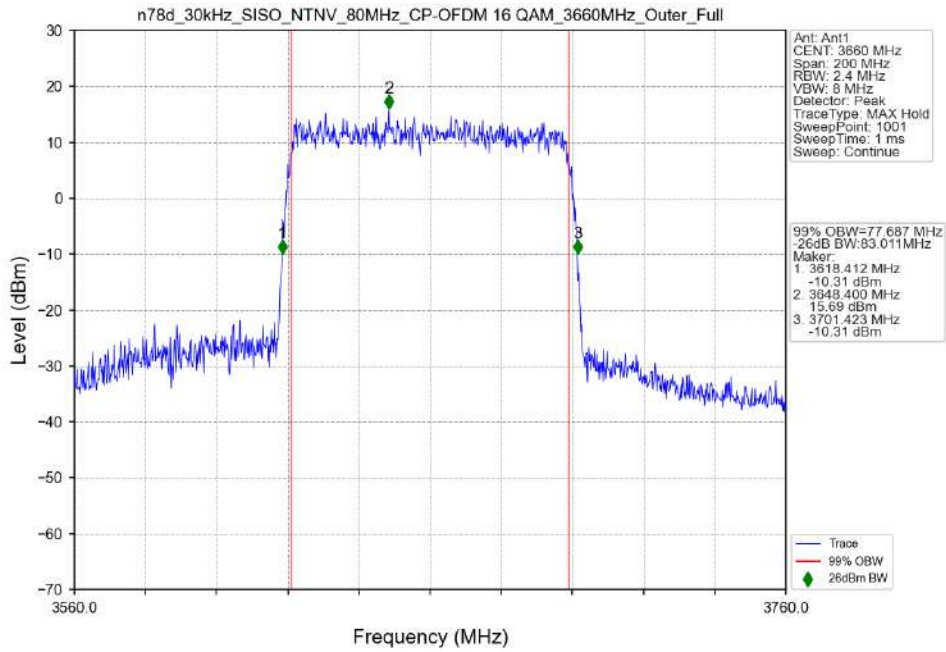
n78d\_30kHz\_SISO\_NTNV\_80MHz\_CP-OFDM 16 QAM\_3590.01MHz\_Outer\_Full



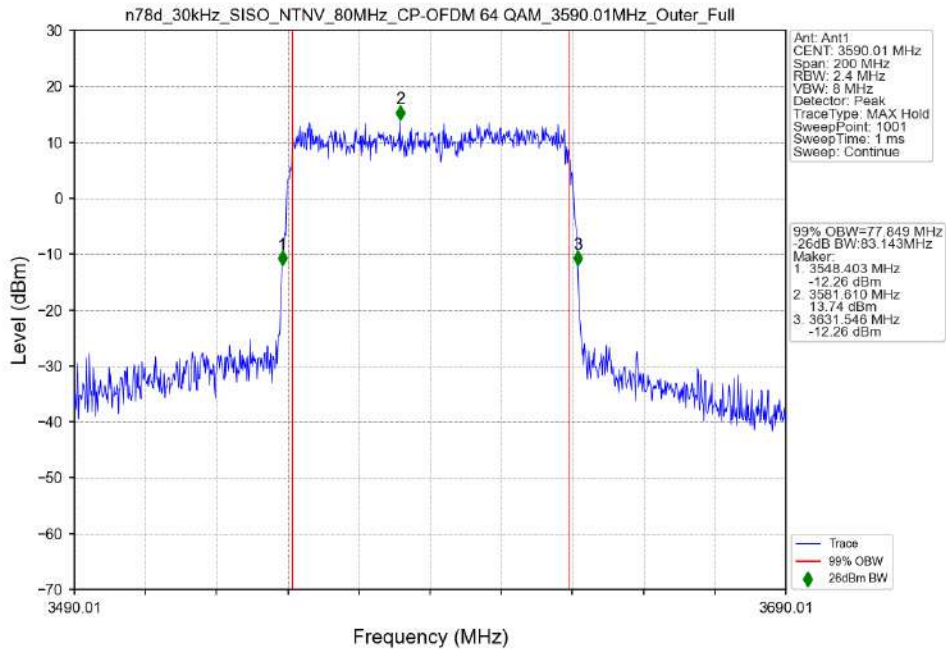
n78d\_30kHz\_SISO\_NTNV\_80MHz\_CP-OFDM 16 QAM\_3624.99MHz\_Outer\_Full



n78d\_30kHz\_SISO\_NTV\_80MHz\_CP-OFDM 16 QAM\_3660MHz\_Outer\_Full

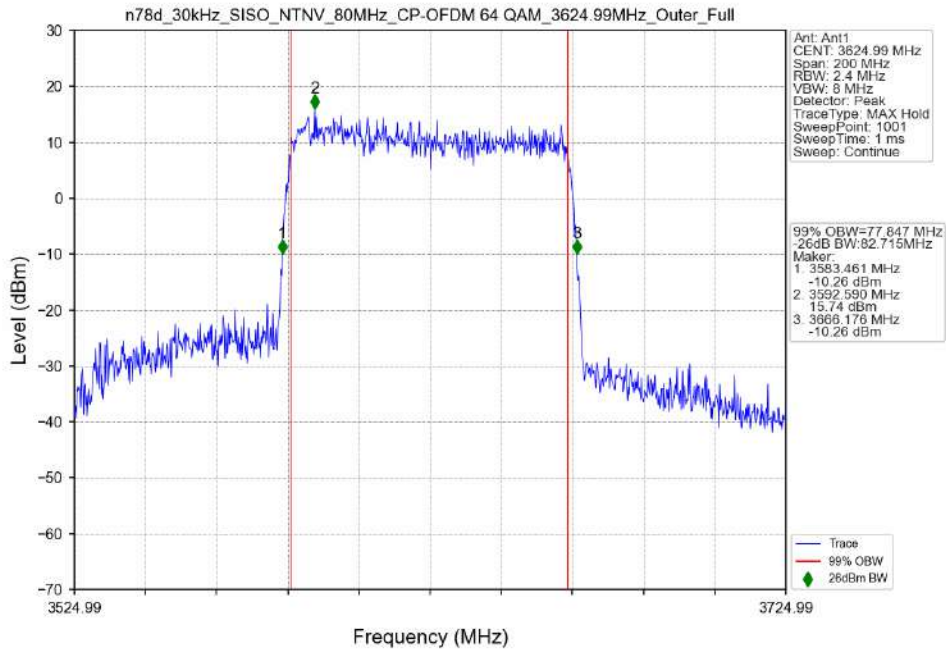


n78d\_30kHz\_SISO\_NTV\_80MHz\_CP-OFDM 64 QAM\_3590.01MHz\_Outer\_Full

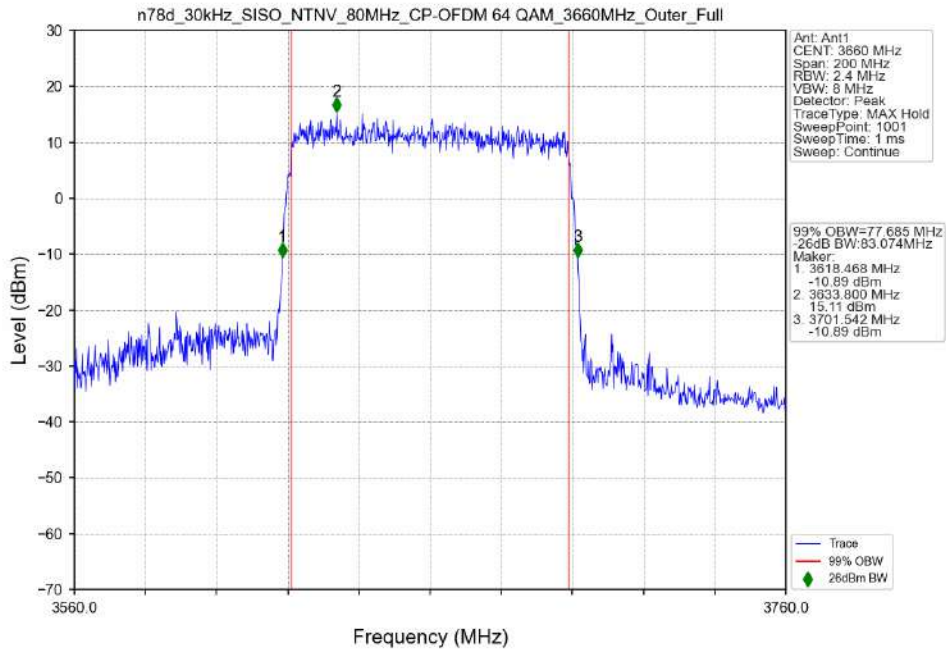




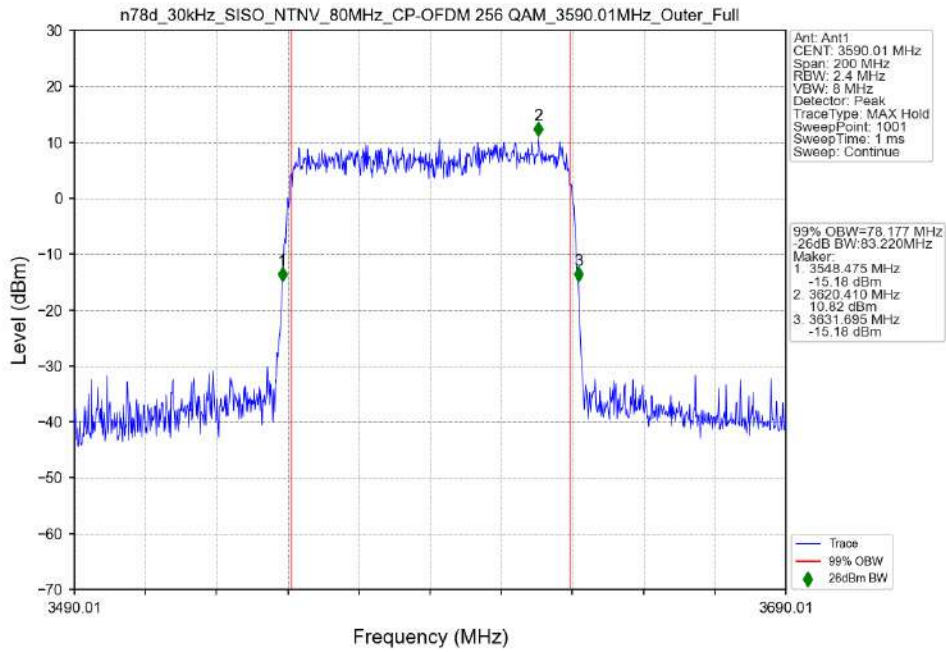
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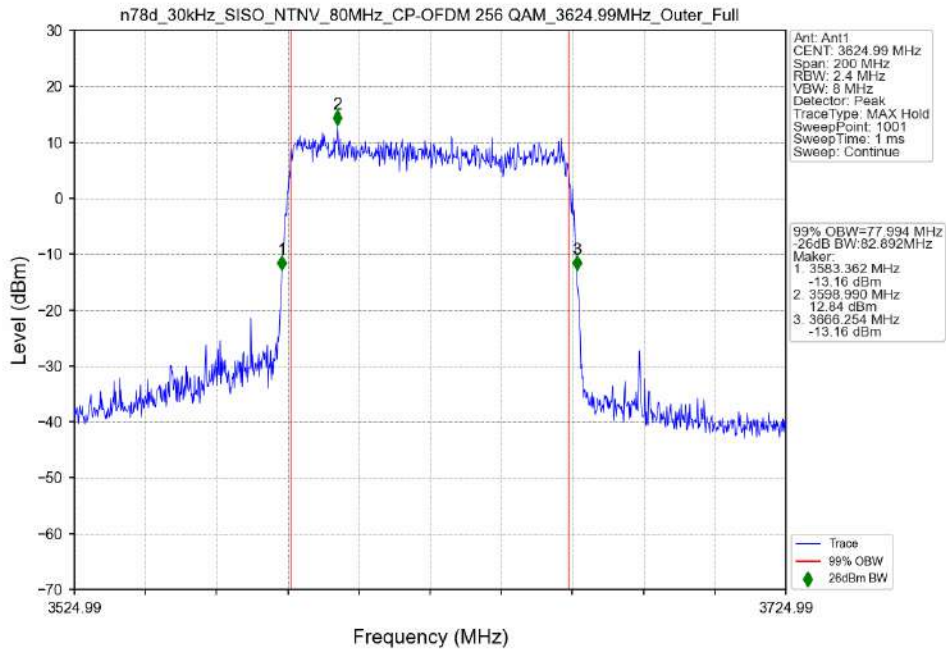
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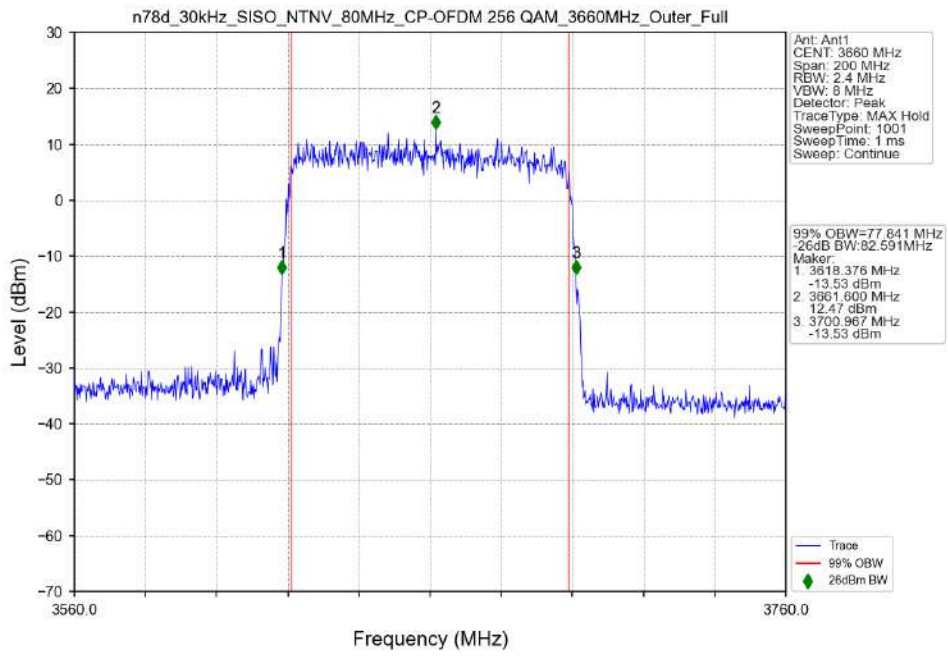
n78d\_30kHz\_SISO\_NTNV\_80MHz\_CP-OFDM 256 QAM\_3590.01MHz\_Outer\_Full



n78d\_30kHz\_SISO\_NTNV\_80MHz\_CP-OFDM 256 QAM\_3624.99MHz\_Outer\_Full



n78d\_30kHz\_SISO\_NTNV\_80MHz\_CP-OFDM 256 QAM\_3660MHz\_Outer\_Full

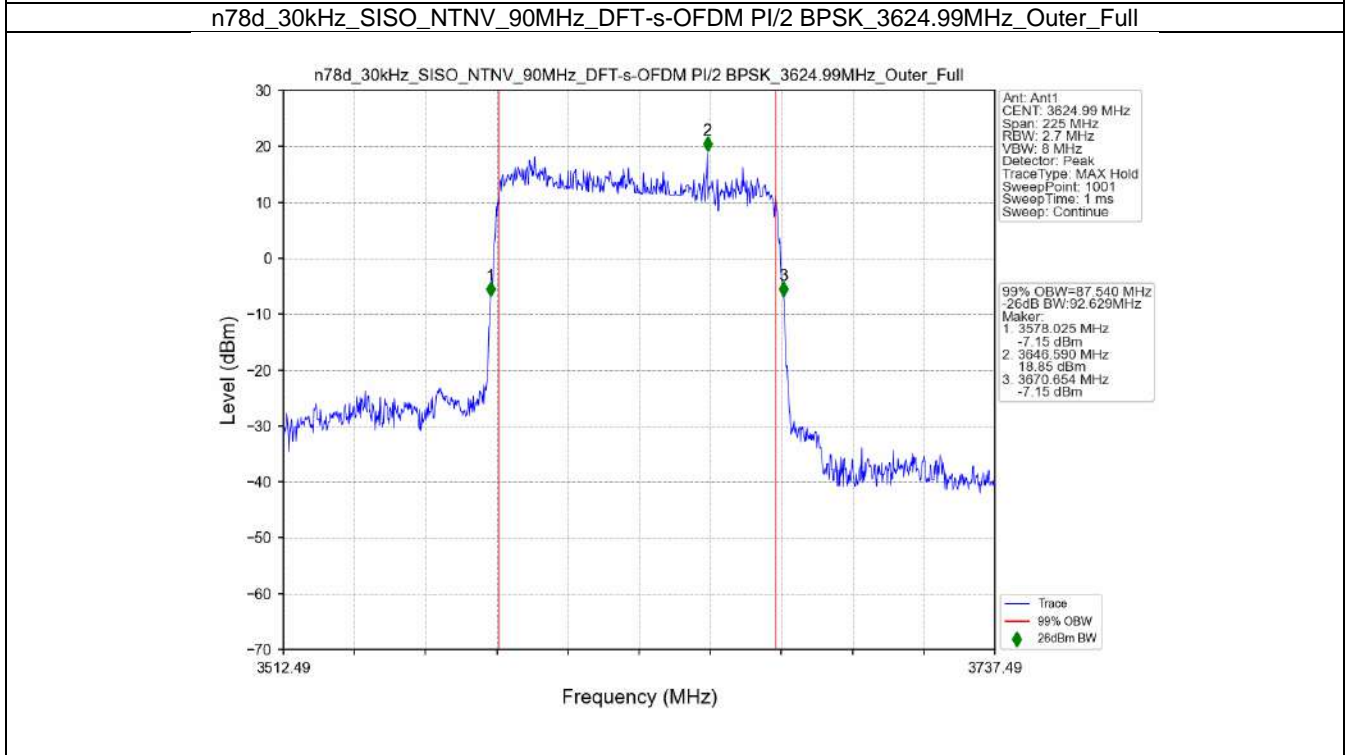
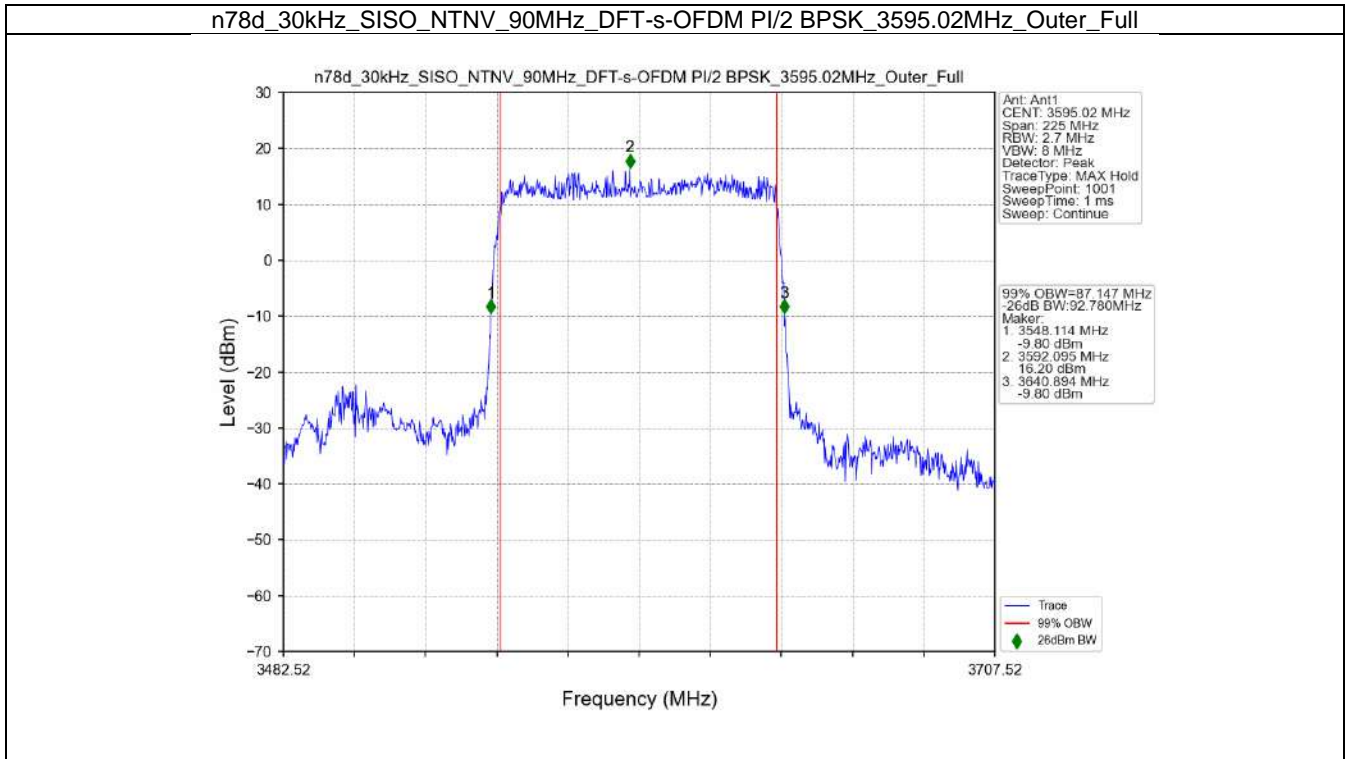


### 3.8 30k\_SISO\_90MHz\_NTNV

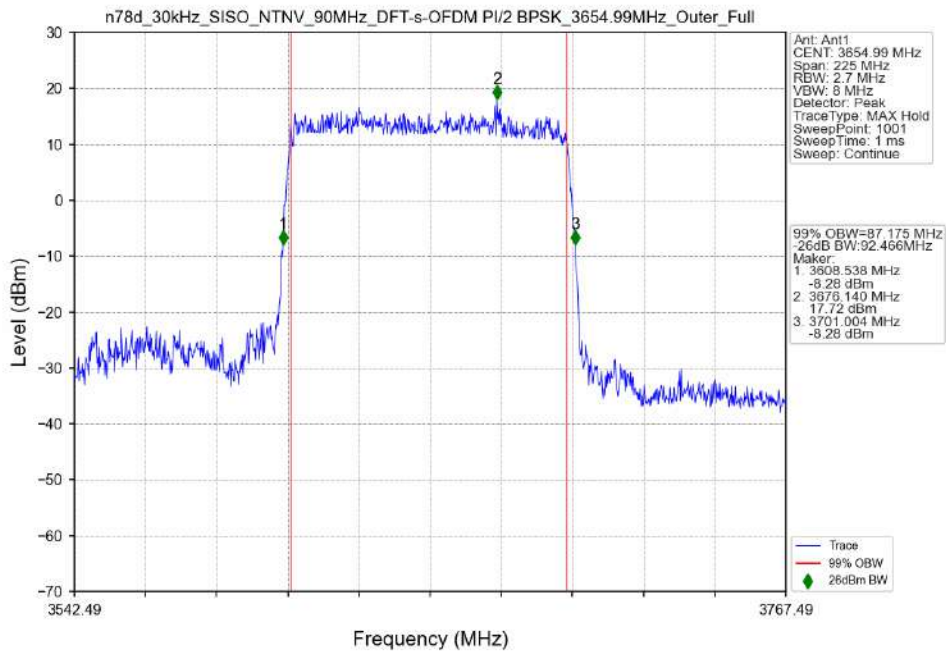
#### 3.8.1 Test Result

5G NR n78d SCS=30kHz SISO 90MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3595.02	Outer_Full	87.15	92.78	/	Pass
	3624.99	Outer_Full	87.54	92.63	/	Pass
	3654.99	Outer_Full	87.17	92.47	/	Pass
DFT-s-OFDM QPSK	3595.02	Outer_Full	87.00	92.65	/	Pass
	3624.99	Outer_Full	87.30	92.78	/	Pass
	3654.99	Outer_Full	87.62	92.86	/	Pass
DFT-s-OFDM 16 QAM	3595.02	Outer_Full	87.03	93.27	/	Pass
	3624.99	Outer_Full	87.37	92.93	/	Pass
	3654.99	Outer_Full	87.52	93.24	/	Pass
DFT-s-OFDM 64 QAM	3595.02	Outer_Full	87.32	93.00	/	Pass
	3624.99	Outer_Full	87.47	92.76	/	Pass
	3654.99	Outer_Full	87.28	93.00	/	Pass
DFT-s-OFDM 256 QAM	3595.02	Outer_Full	87.18	92.88	/	Pass
	3624.99	Outer_Full	87.18	92.93	/	Pass
	3654.99	Outer_Full	86.81	92.81	/	Pass
CP-OFDM QPSK	3595.02	Outer_Full	87.82	93.71	/	Pass
	3624.99	Outer_Full	87.72	93.41	/	Pass
	3654.99	Outer_Full	87.89	93.76	/	Pass
CP-OFDM 16 QAM	3595.02	Outer_Full	88.18	93.25	/	Pass
	3624.99	Outer_Full	87.73	93.56	/	Pass
	3654.99	Outer_Full	88.14	93.35	/	Pass
CP-OFDM 64 QAM	3595.02	Outer_Full	87.85	93.76	/	Pass
	3624.99	Outer_Full	88.08	93.33	/	Pass
	3654.99	Outer_Full	87.99	93.53	/	Pass
CP-OFDM 256 QAM	3595.02	Outer_Full	87.72	93.48	/	Pass
	3624.99	Outer_Full	88.09	93.38	/	Pass
	3654.99	Outer_Full	88.07	93.82	/	Pass

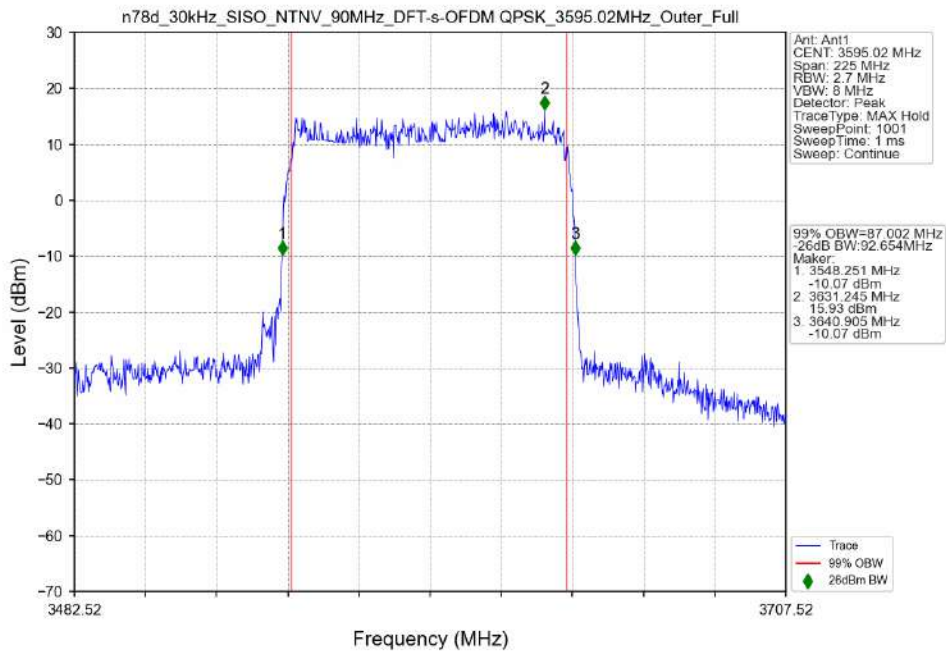
### 3.8.2 Test Graph



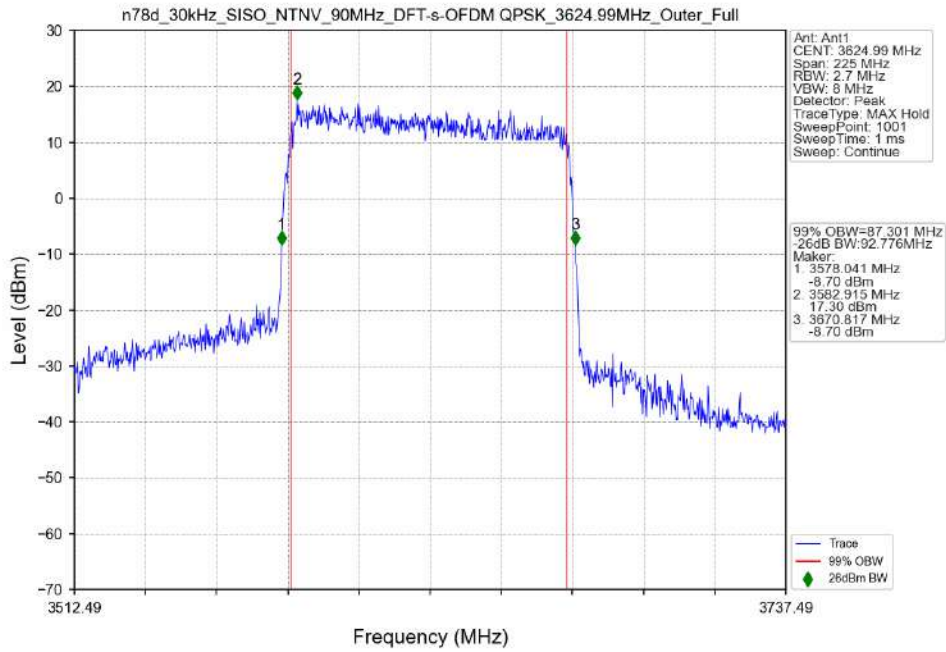
n78d\_30kHz\_SISO\_NTNV\_90MHz\_DFT-s-OFDM PI/2 BPSK\_3654.99MHz\_Outer\_Full



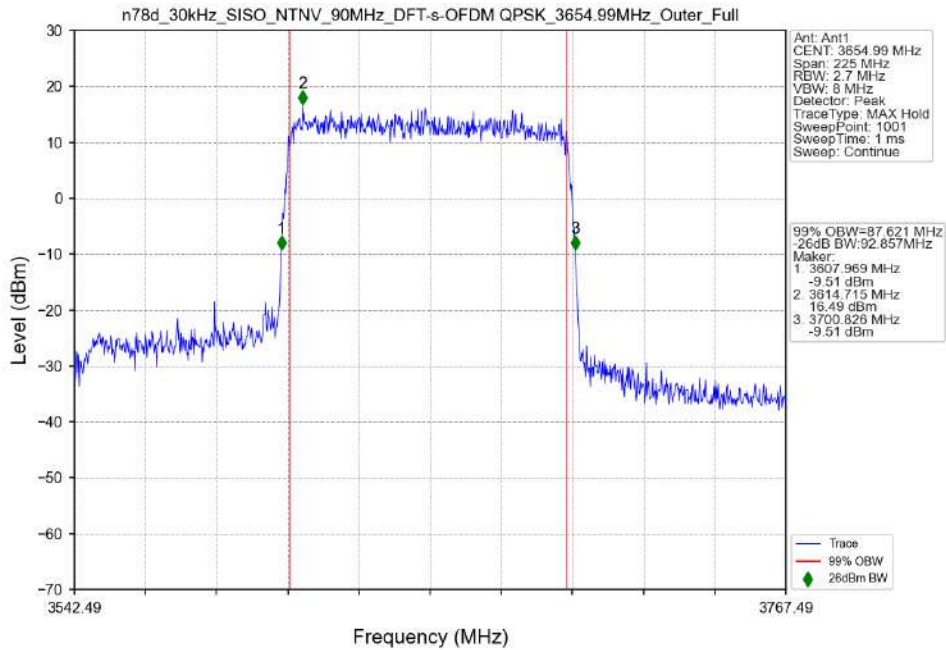
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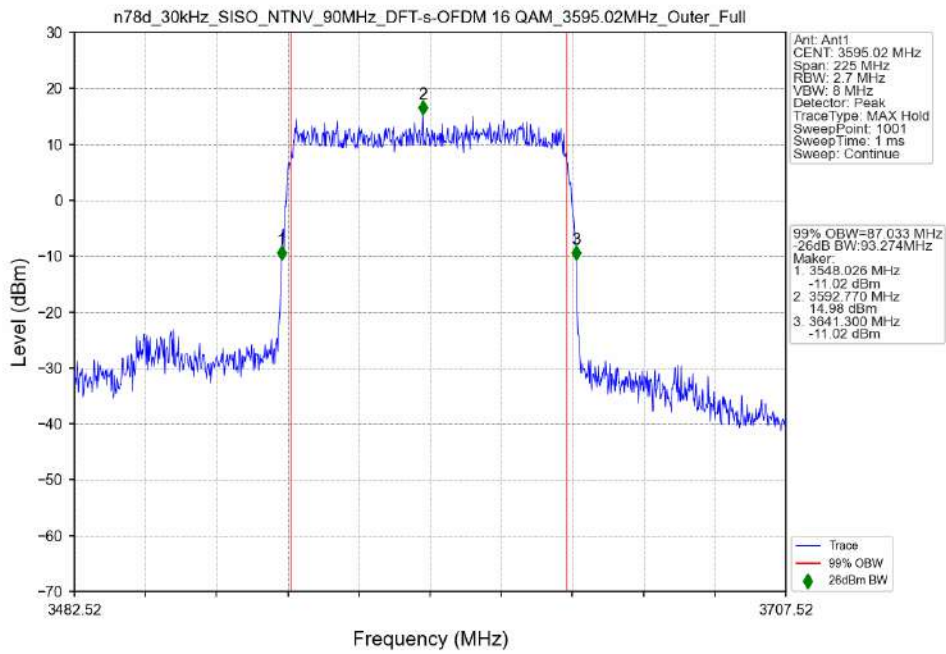
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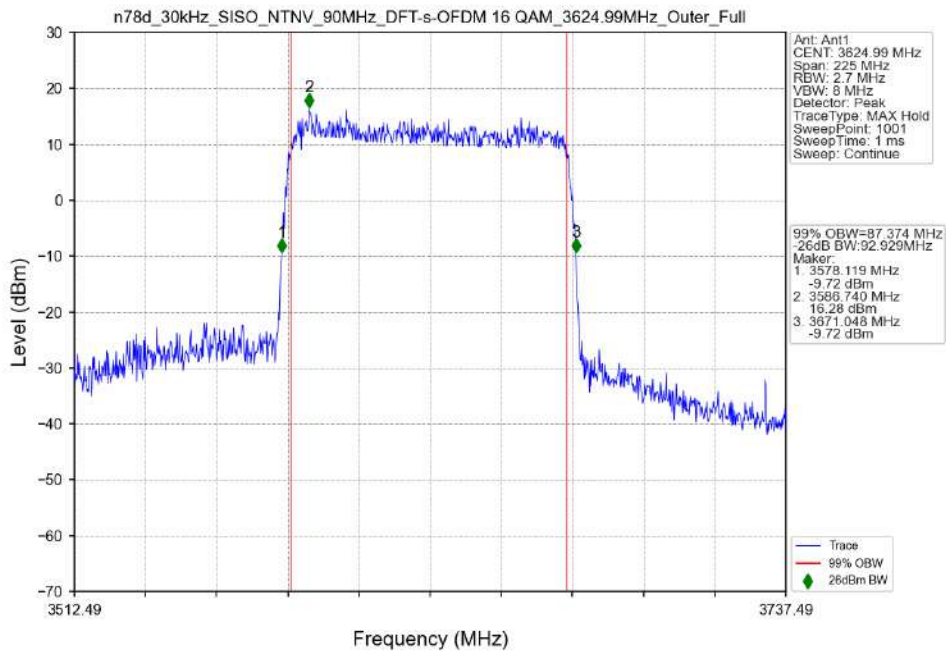
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n78d\_30kHz\_SISO\_NTNV\_90MHz\_DFT-s-OFDM 16 QAM 3595.02MHz\_Outer\_Full

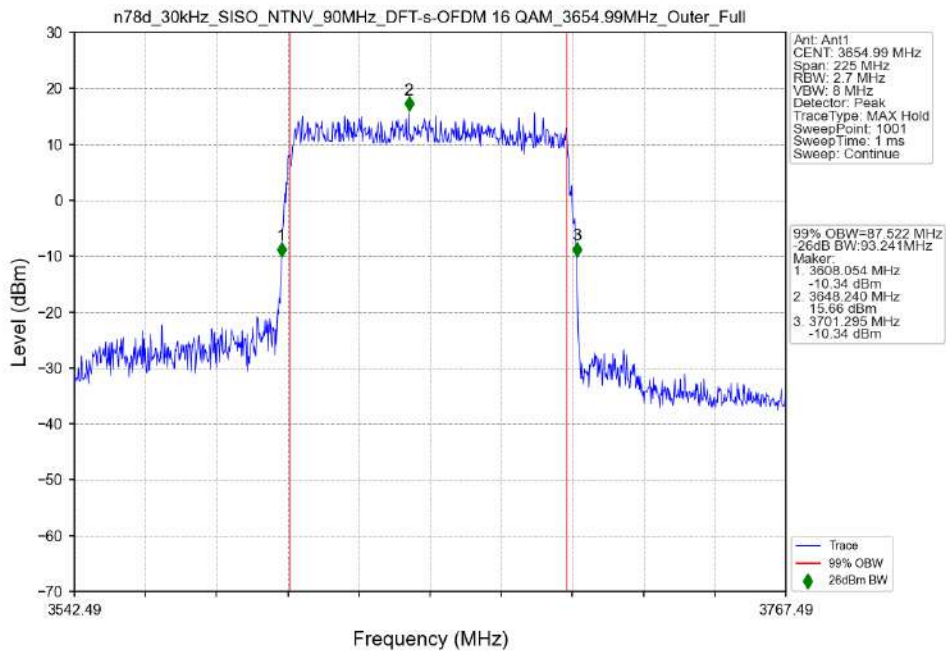


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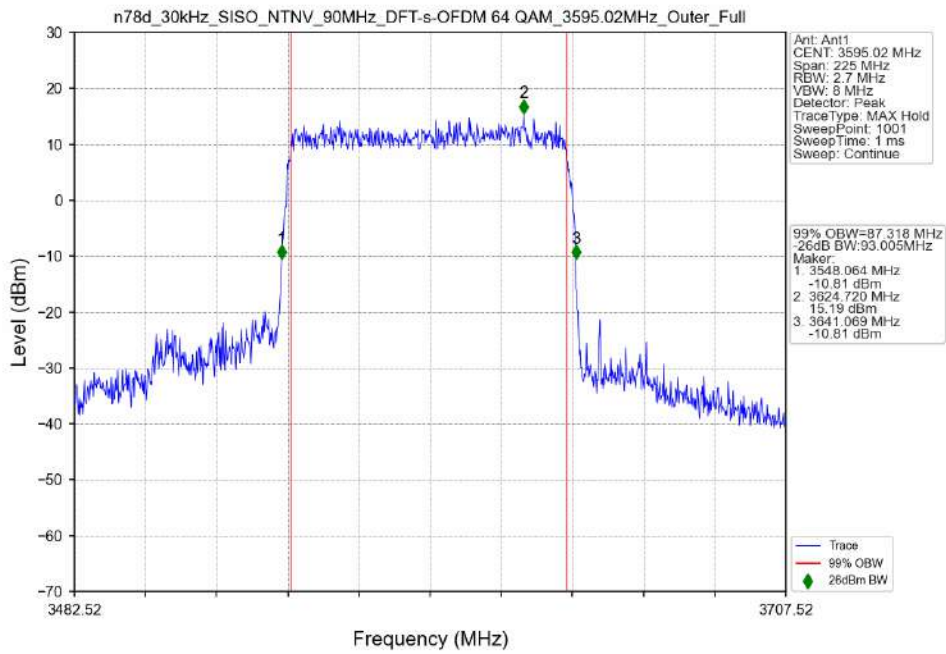




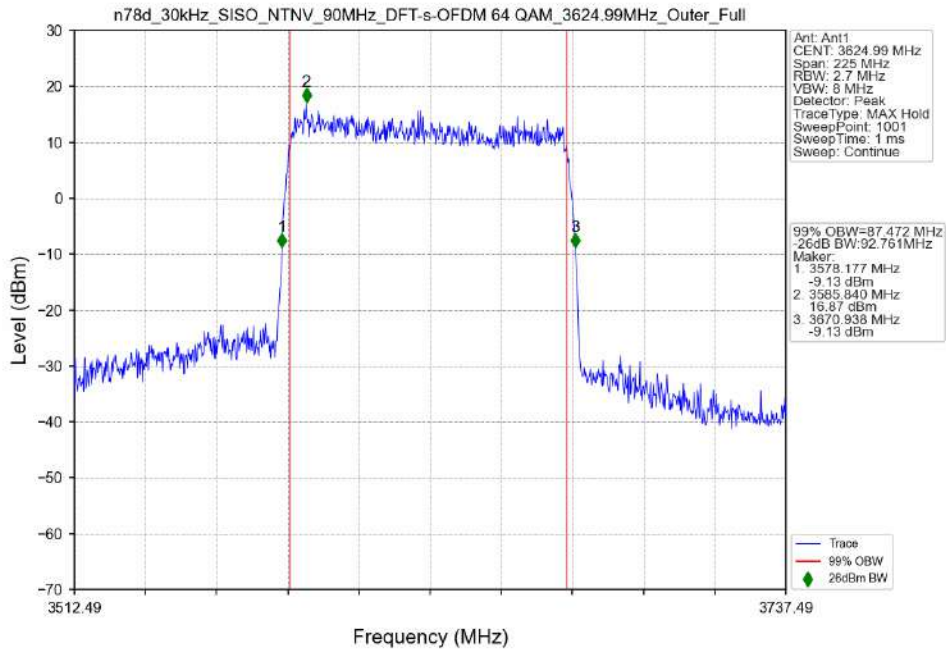
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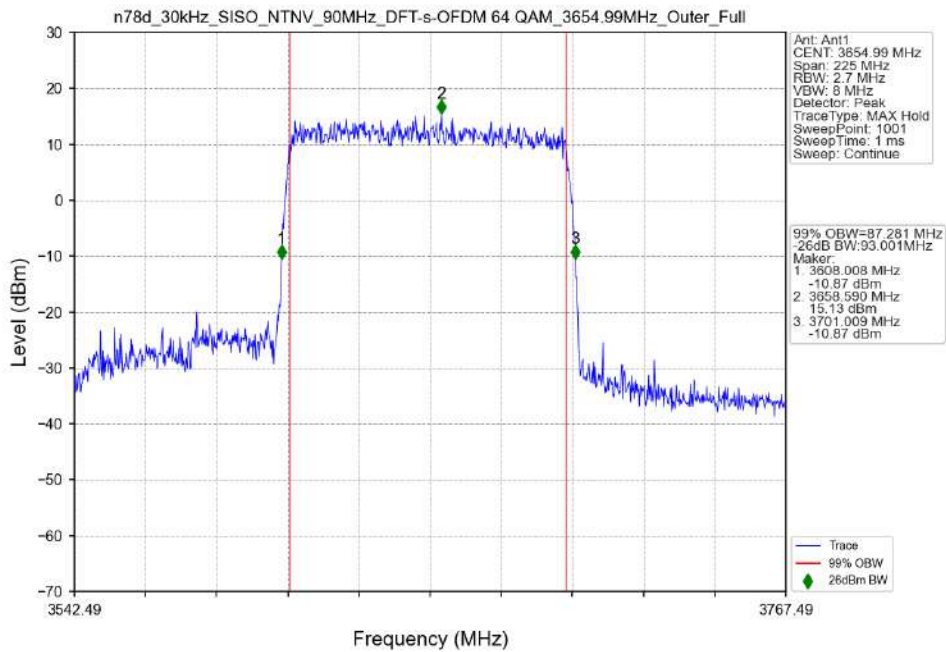
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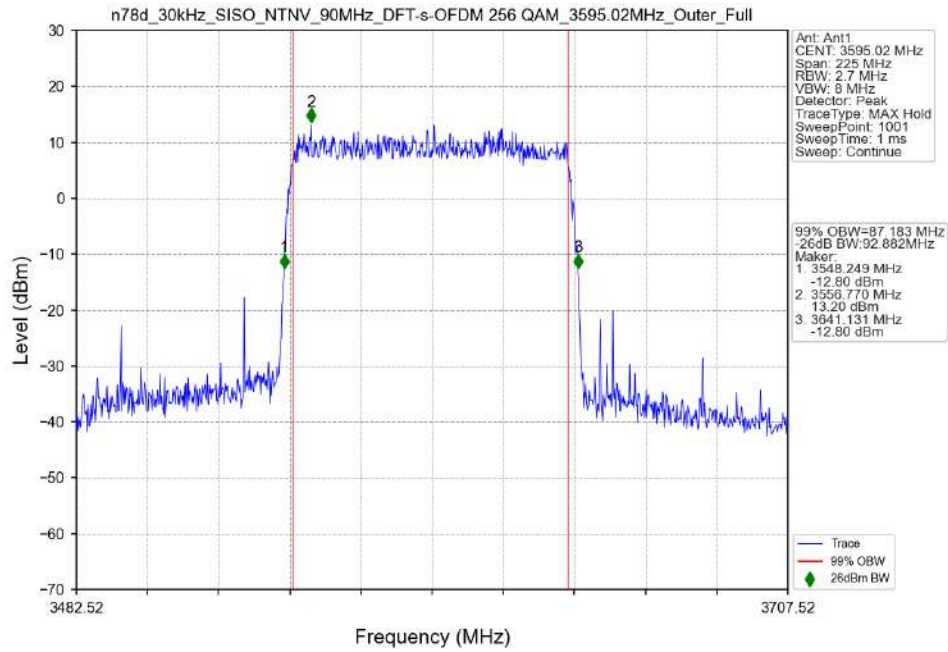
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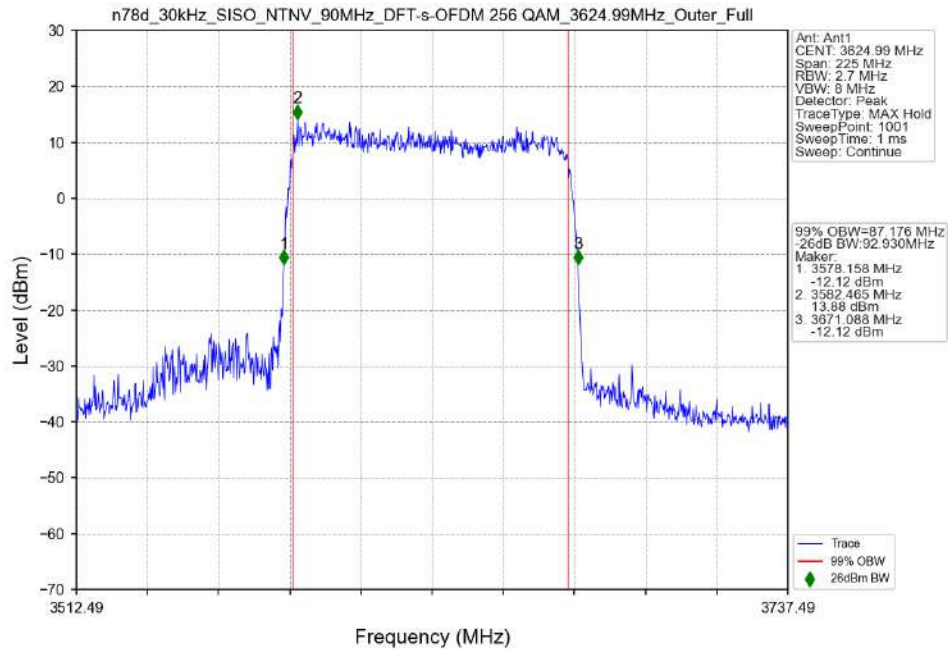
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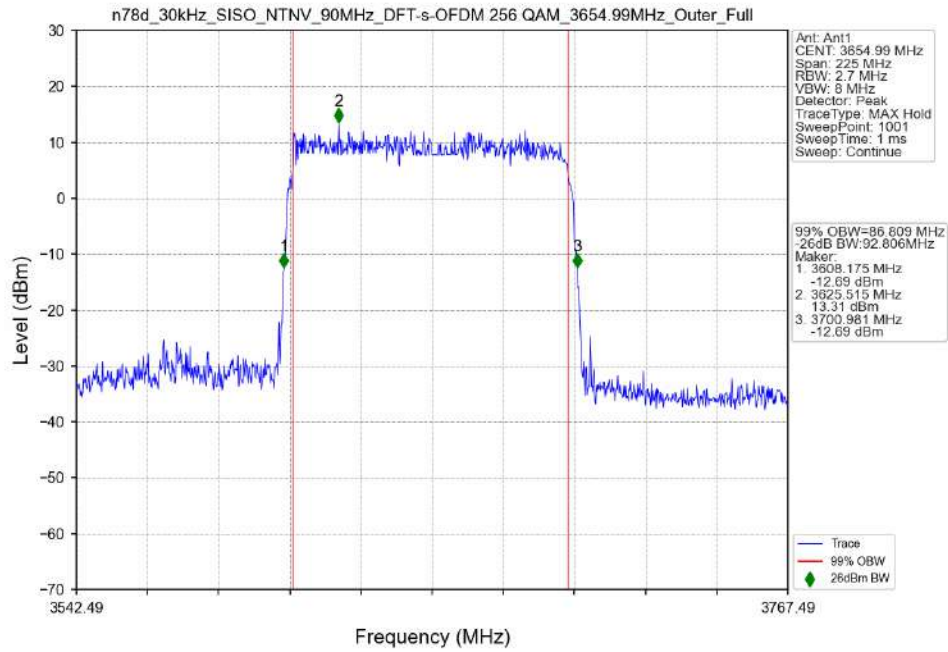
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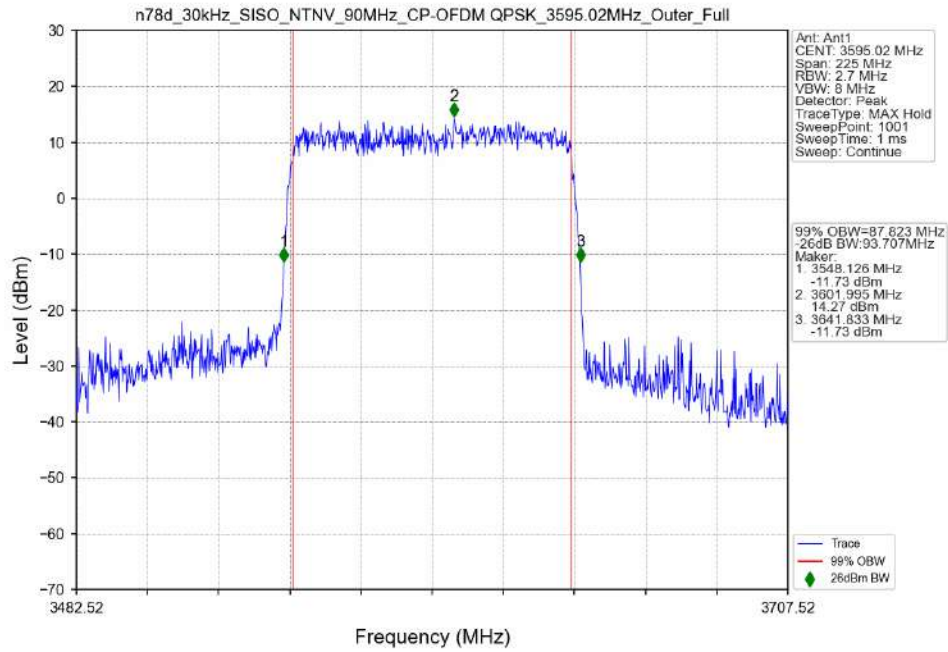
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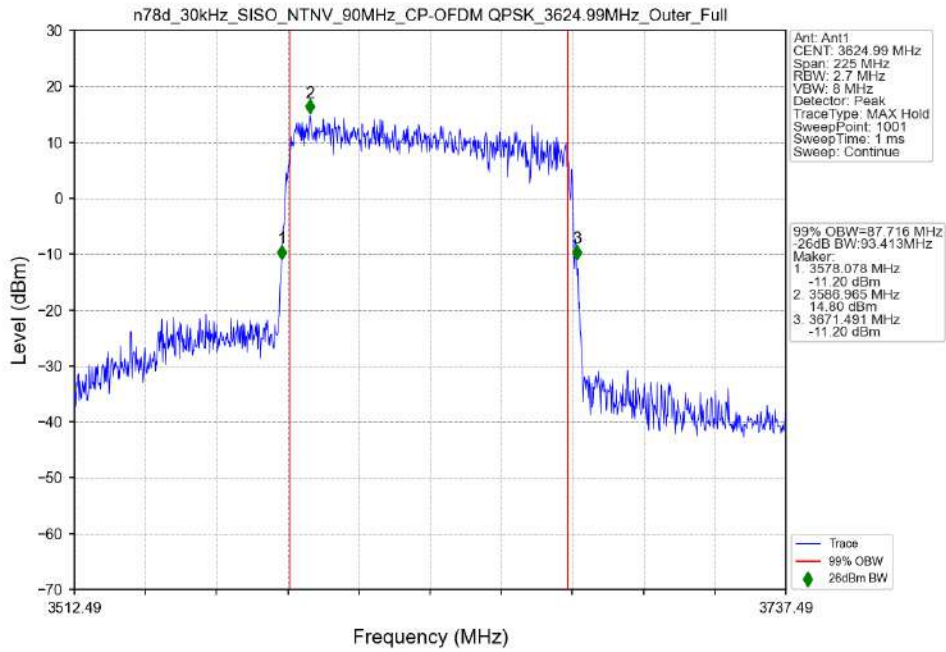
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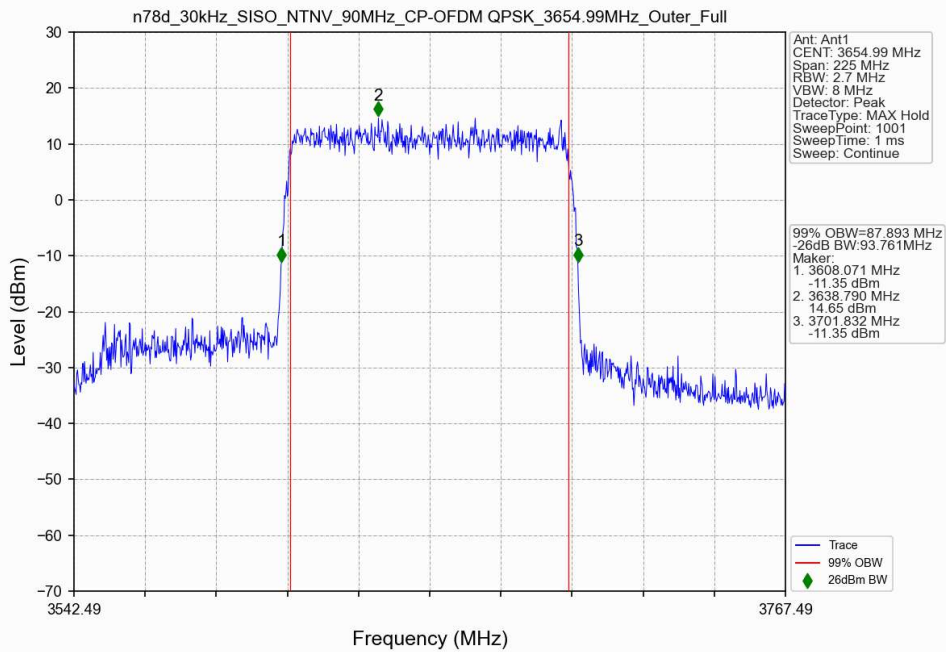
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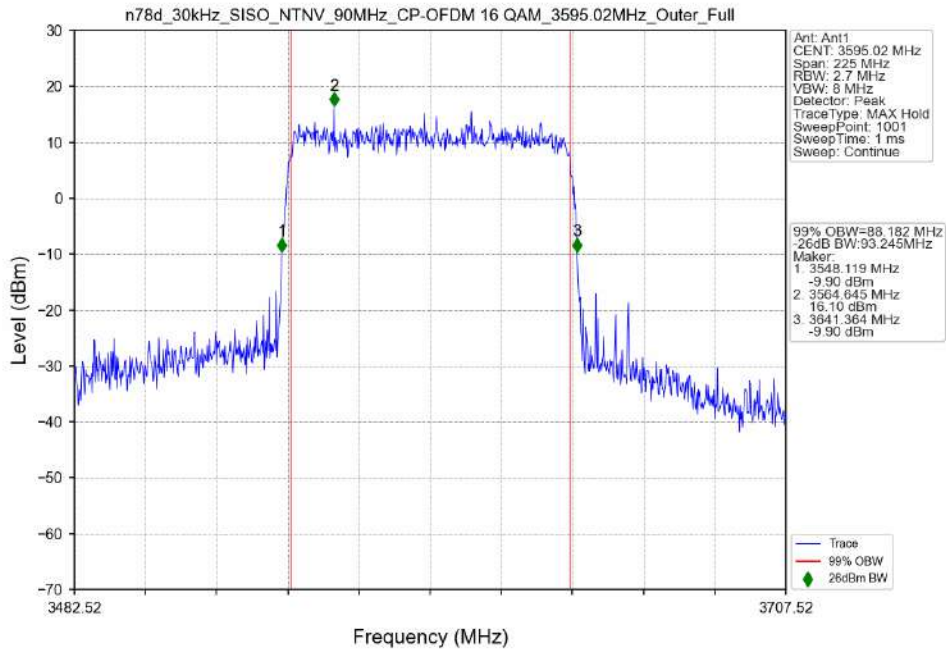
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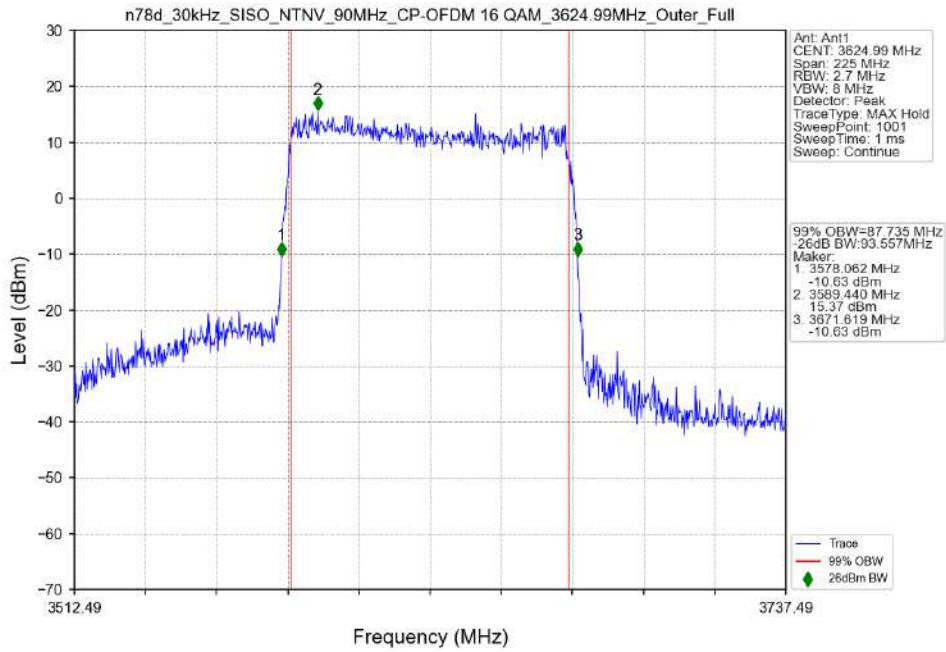
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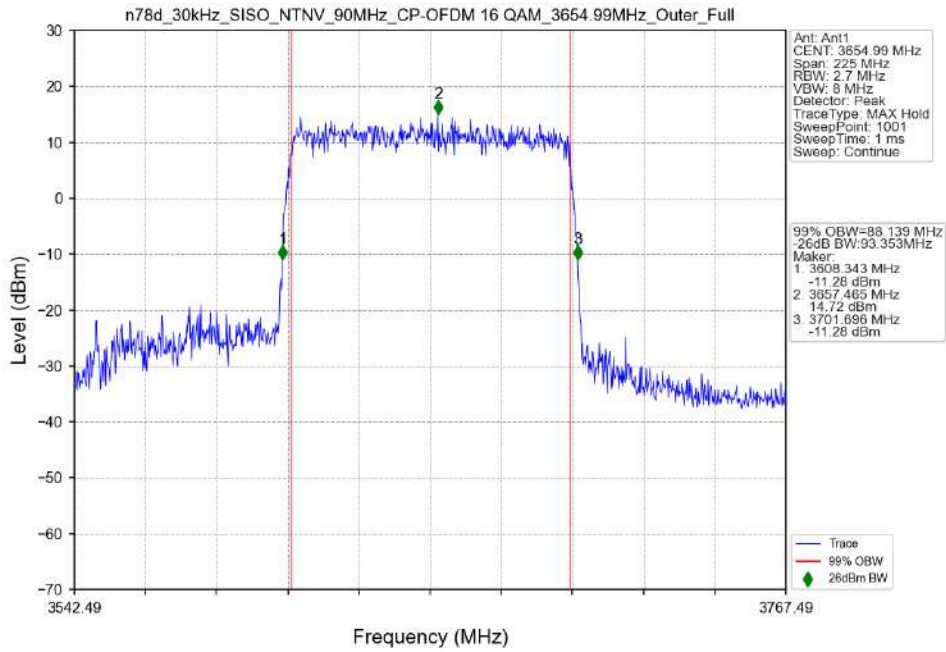
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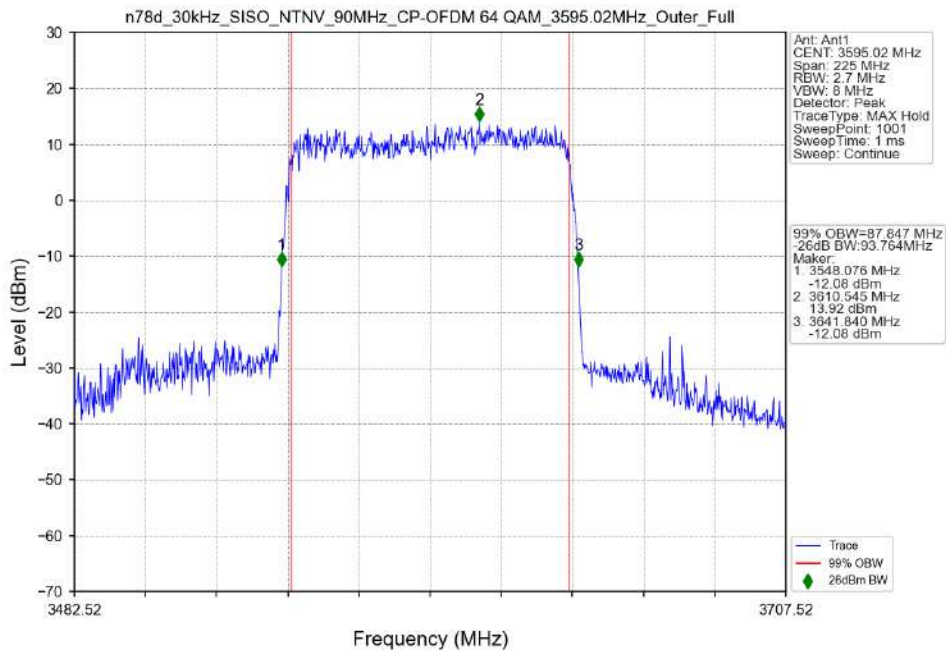
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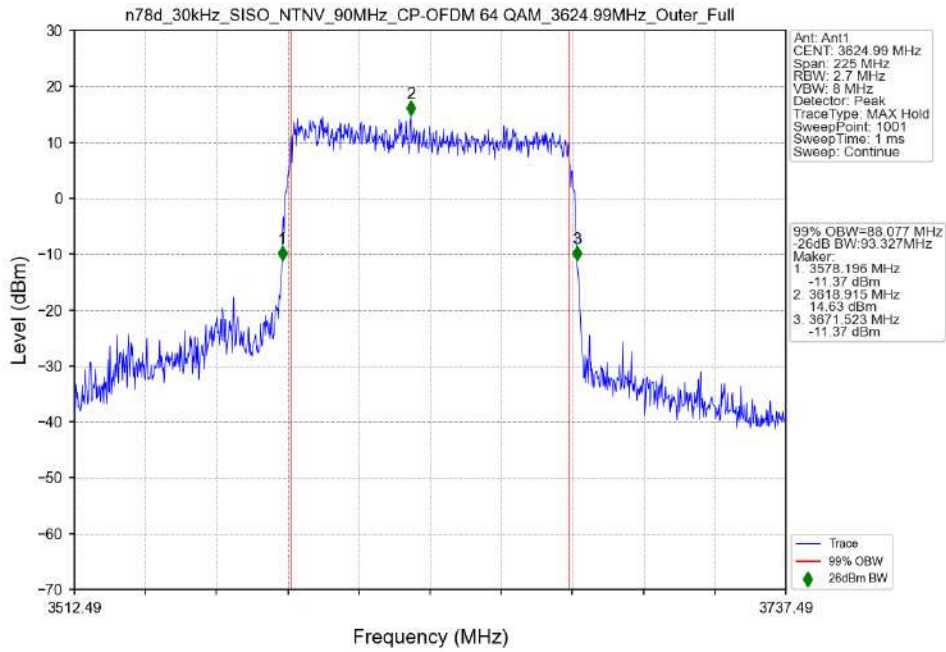
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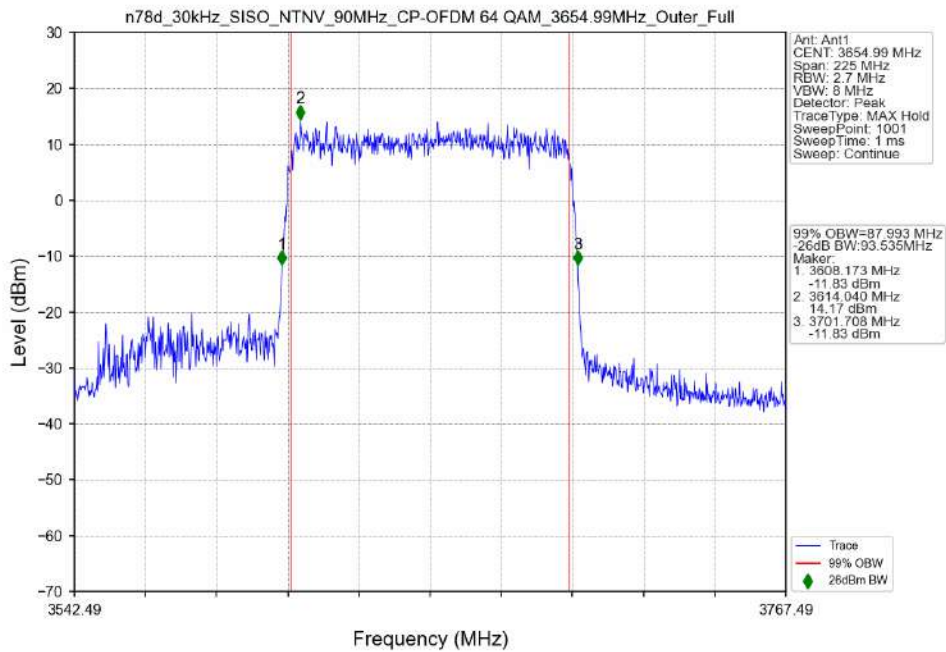
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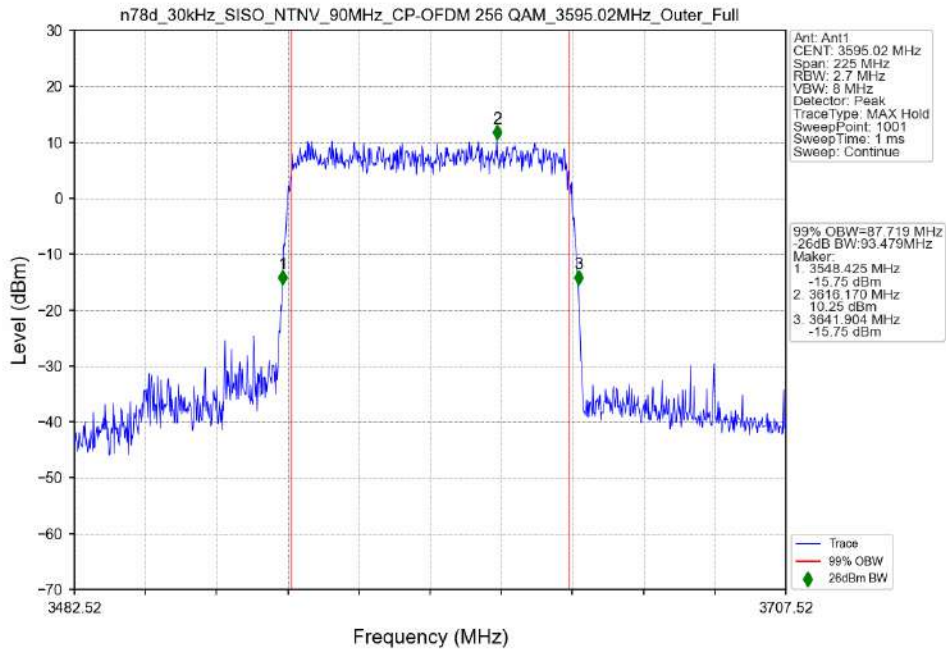


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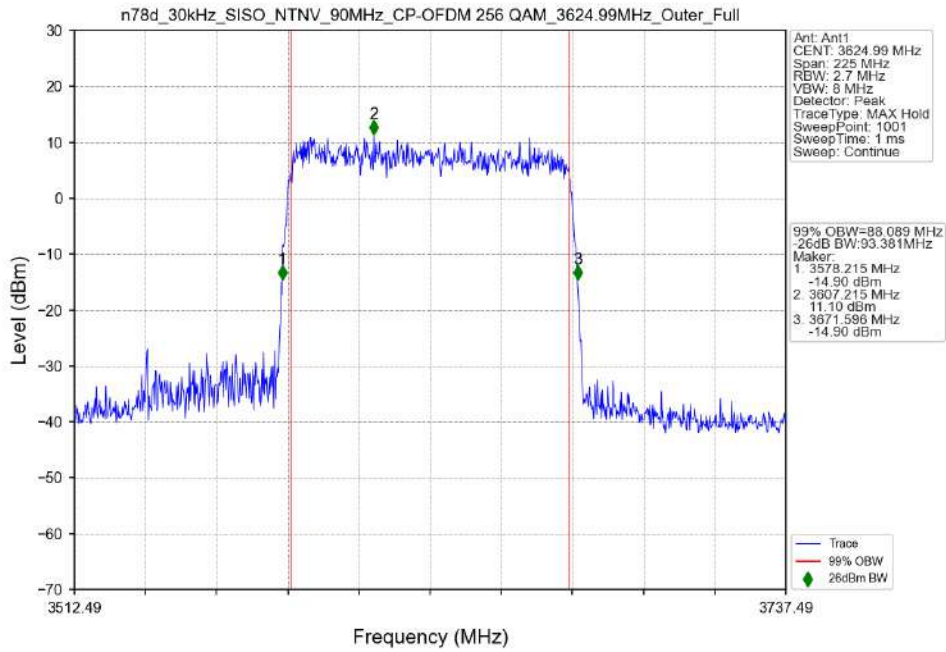




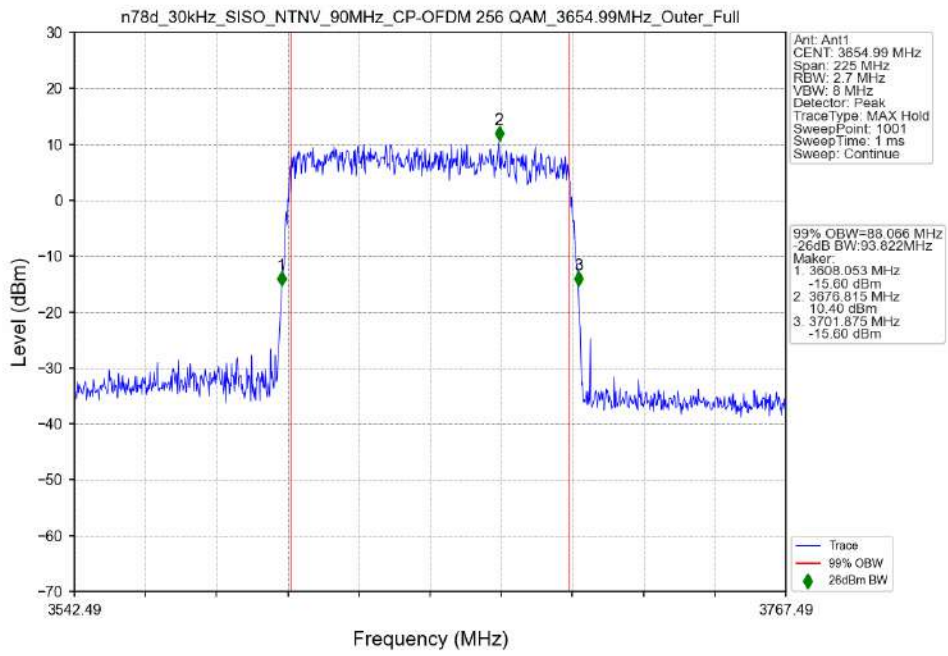
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n78d\_30kHz\_SISO\_NTNV\_90MHz\_CP-OFDM 256 QAM\_3624.99MHz\_Outer\_Full



n78d\_30kHz\_SISO\_NTNV\_90MHz\_CP-OFDM 256 QAM\_3654.99MHz\_Outer\_Full

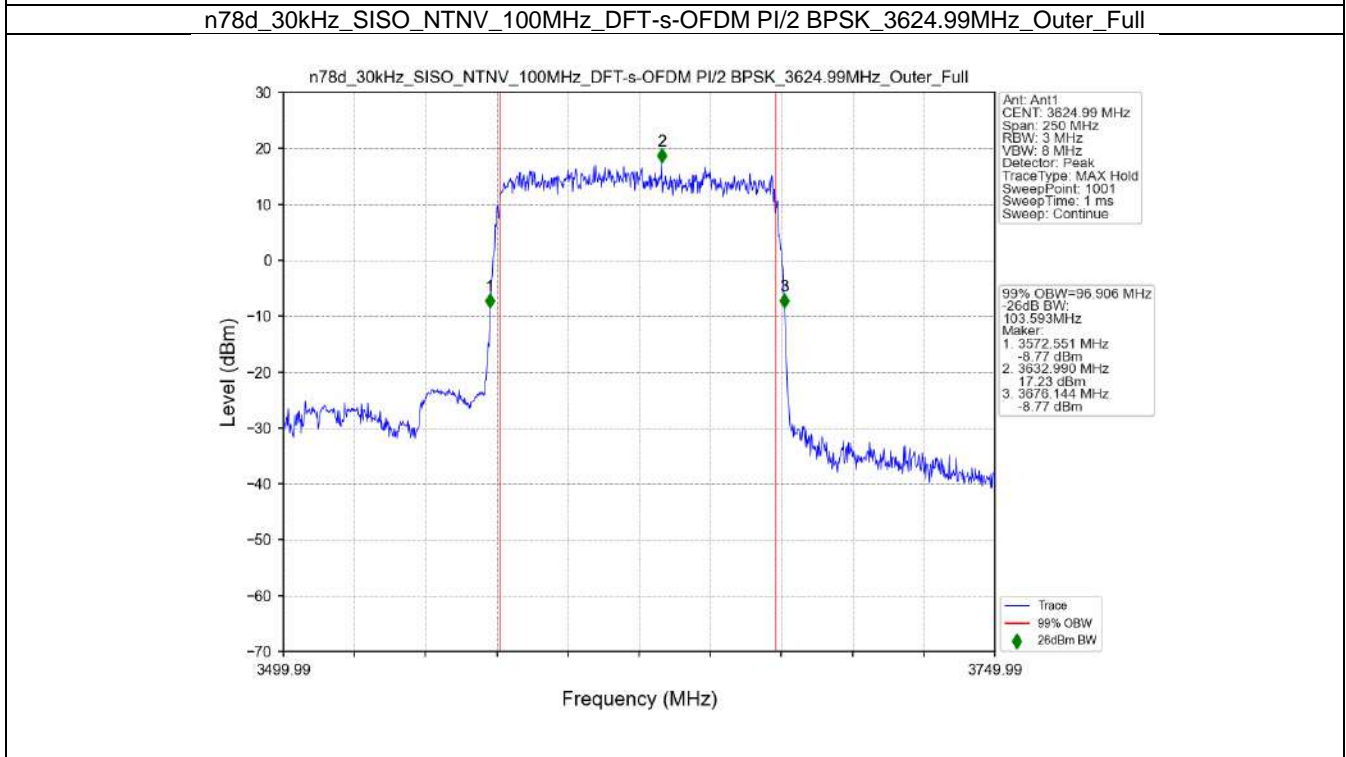
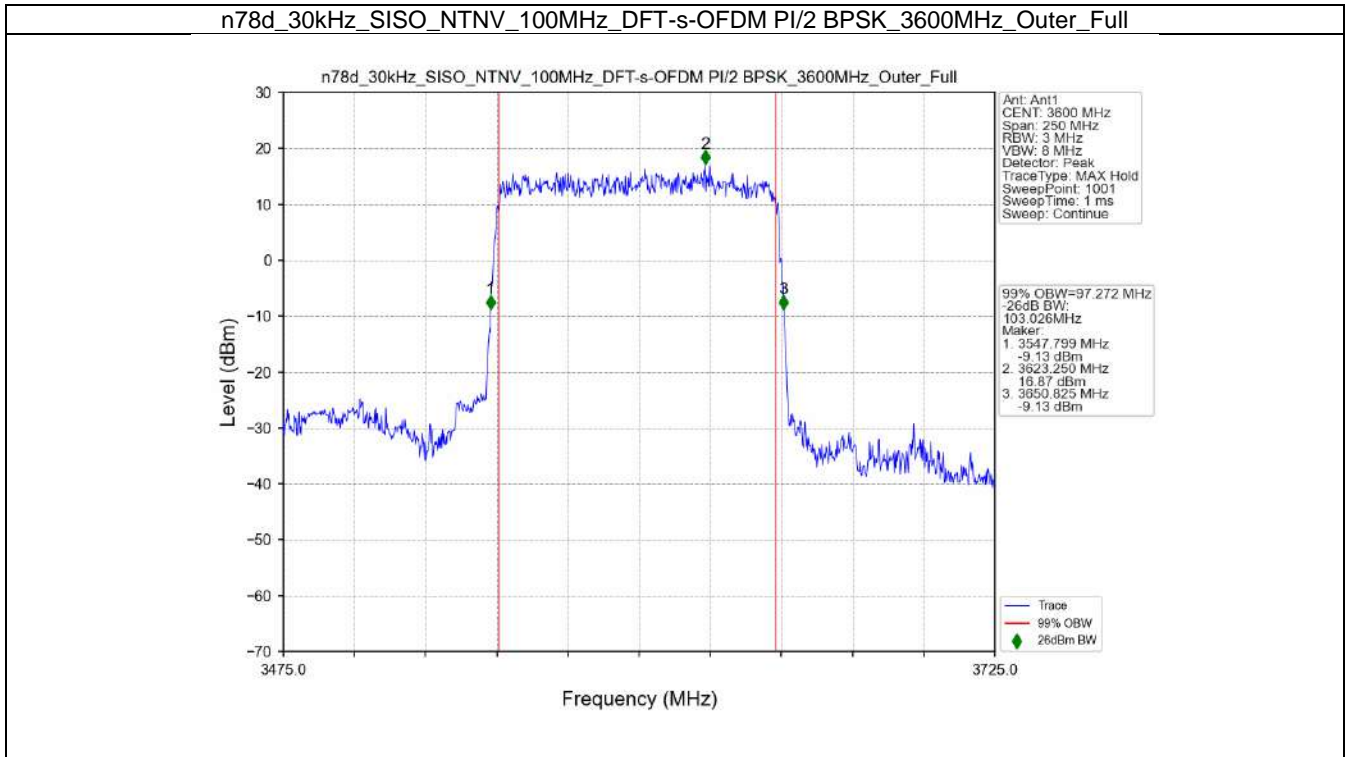


### 3.9 30k\_SISO\_100MHz\_NTNV

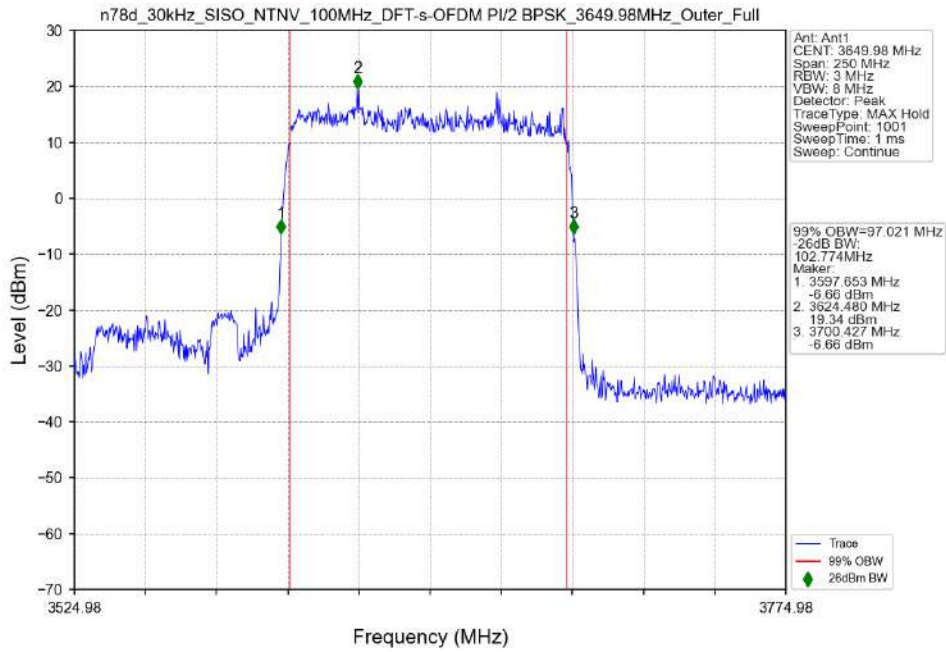
#### 3.9.1 Test Result

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	97.27	103.03	/	Pass
	3624.99	Outer_Full	96.91	103.59	/	Pass
	3649.98	Outer_Full	97.02	102.77	/	Pass
DFT-s-OFDM QPSK	3600	Outer_Full	96.82	103.68	/	Pass
	3624.99	Outer_Full	96.64	103.58	/	Pass
	3649.98	Outer_Full	97.12	102.42	/	Pass
DFT-s-OFDM 16 QAM	3600	Outer_Full	96.56	103.39	/	Pass
	3624.99	Outer_Full	96.85	102.93	/	Pass
	3649.98	Outer_Full	97.22	102.65	/	Pass
DFT-s-OFDM 64 QAM	3600	Outer_Full	97.06	103.04	/	Pass
	3624.99	Outer_Full	97.17	103.19	/	Pass
	3649.98	Outer_Full	96.93	103.31	/	Pass
DFT-s-OFDM 256 QAM	3600	Outer_Full	97.07	102.84	/	Pass
	3624.99	Outer_Full	97.04	103.70	/	Pass
	3649.98	Outer_Full	97.28	103.16	/	Pass
CP-OFDM QPSK	3600	Outer_Full	98.33	104.53	/	Pass
	3624.99	Outer_Full	97.75	104.61	/	Pass
	3649.98	Outer_Full	98.01	104.80	/	Pass
CP-OFDM 16 QAM	3600	Outer_Full	97.86	104.85	/	Pass
	3624.99	Outer_Full	98.05	103.83	/	Pass
	3649.98	Outer_Full	97.97	104.51	/	Pass
CP-OFDM 64 QAM	3600	Outer_Full	97.89	104.25	/	Pass
	3624.99	Outer_Full	97.97	104.69	/	Pass
	3649.98	Outer_Full	98.29	104.14	/	Pass
CP-OFDM 256 QAM	3600	Outer_Full	98.03	104.86	/	Pass
	3624.99	Outer_Full	97.73	104.13	/	Pass
	3649.98	Outer_Full	98.22	104.26	/	Pass

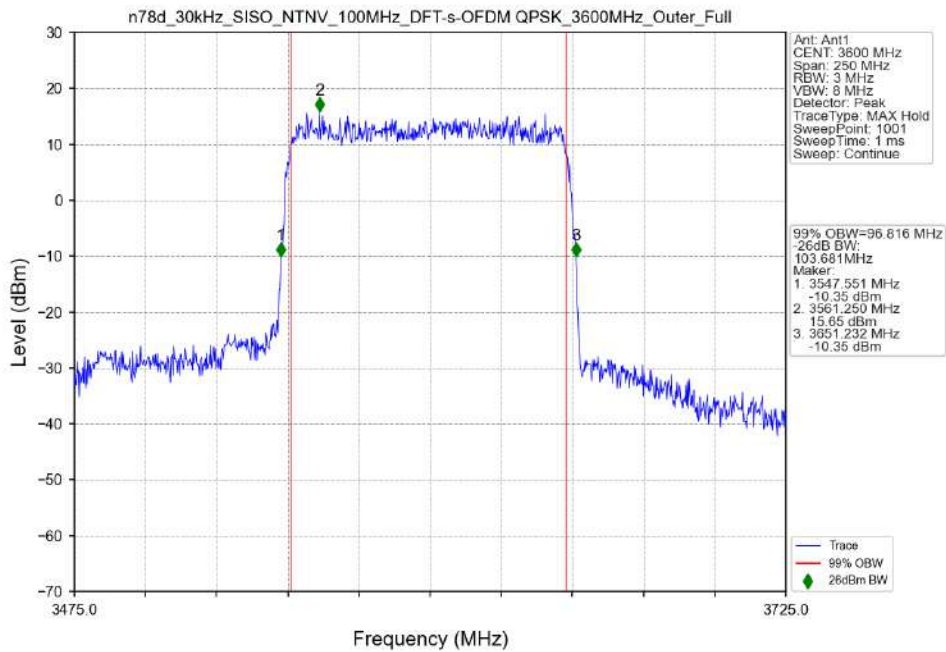
### 3.9.2 Test Graph



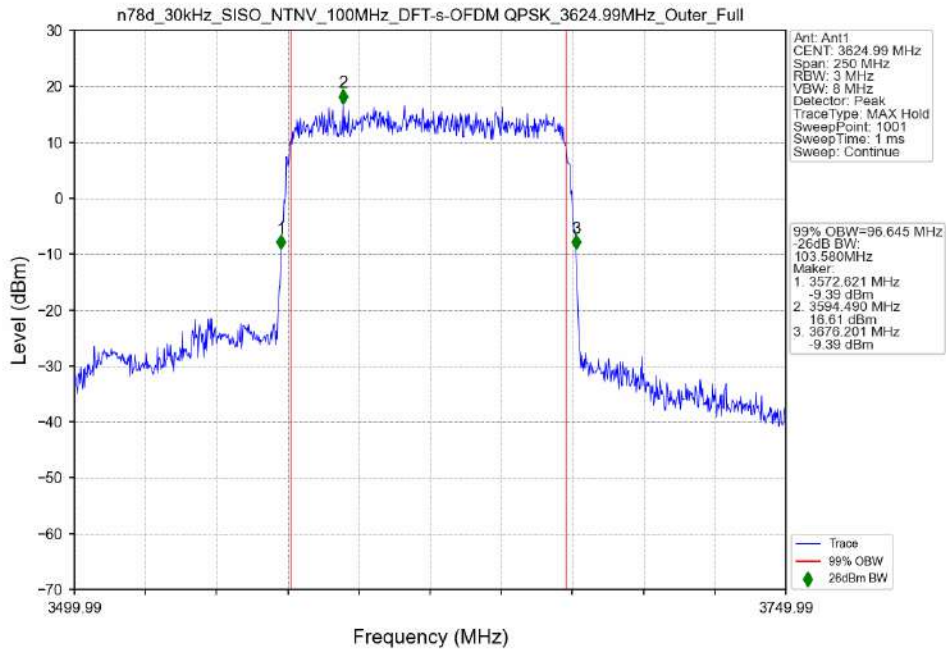
n78d\_30kHz\_SISO\_NTNV\_100MHz\_DFT-s-OFDM PI/2 BPSK\_3649.98MHz\_Outer\_Full



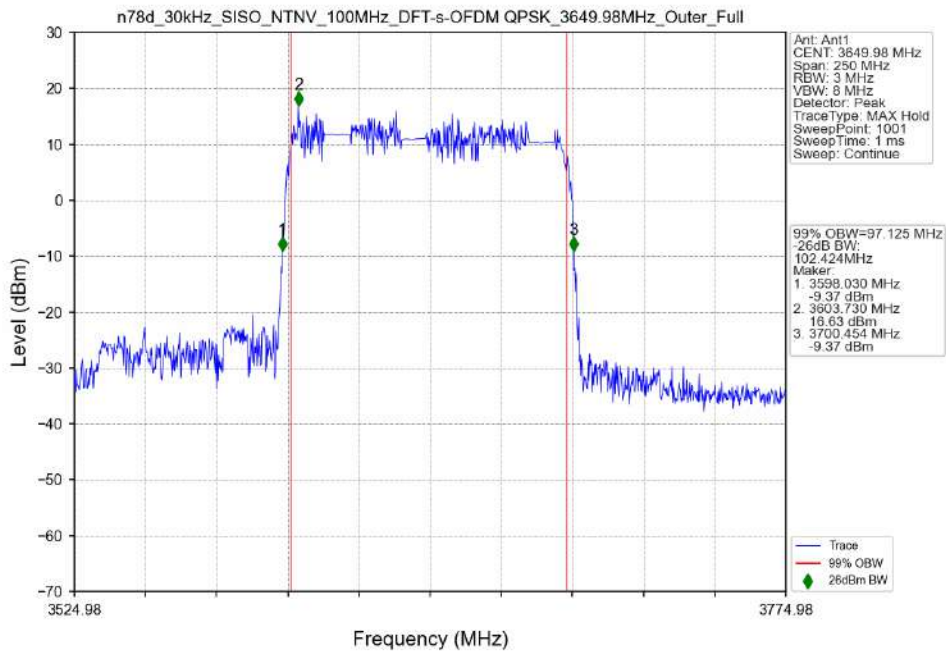
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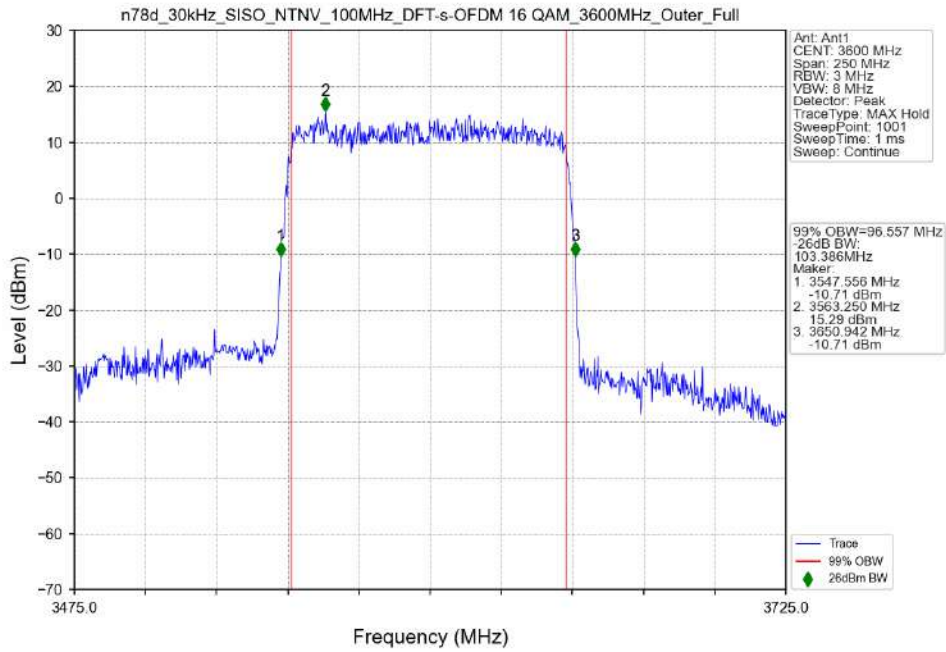
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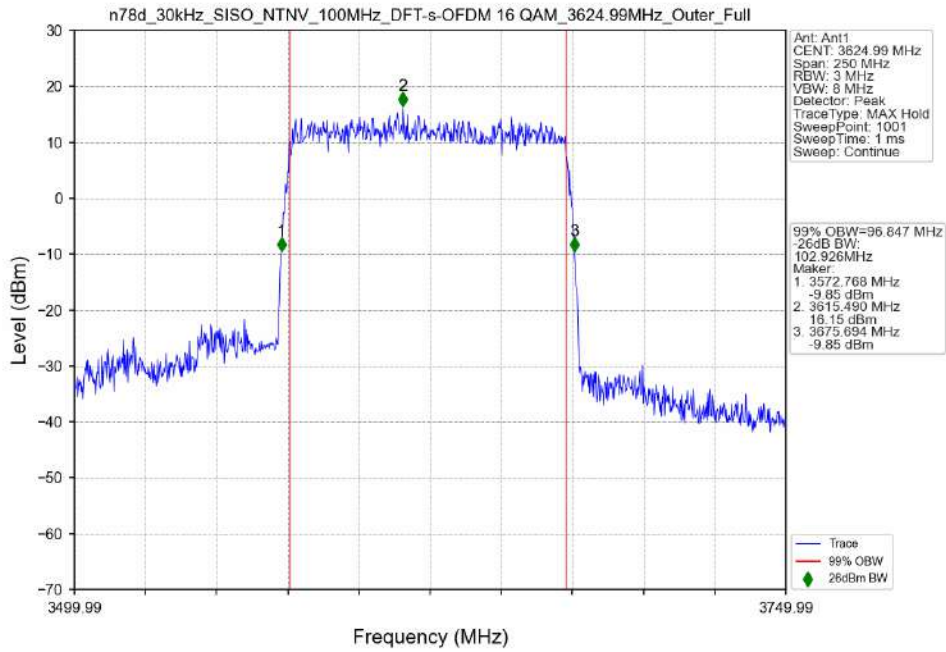
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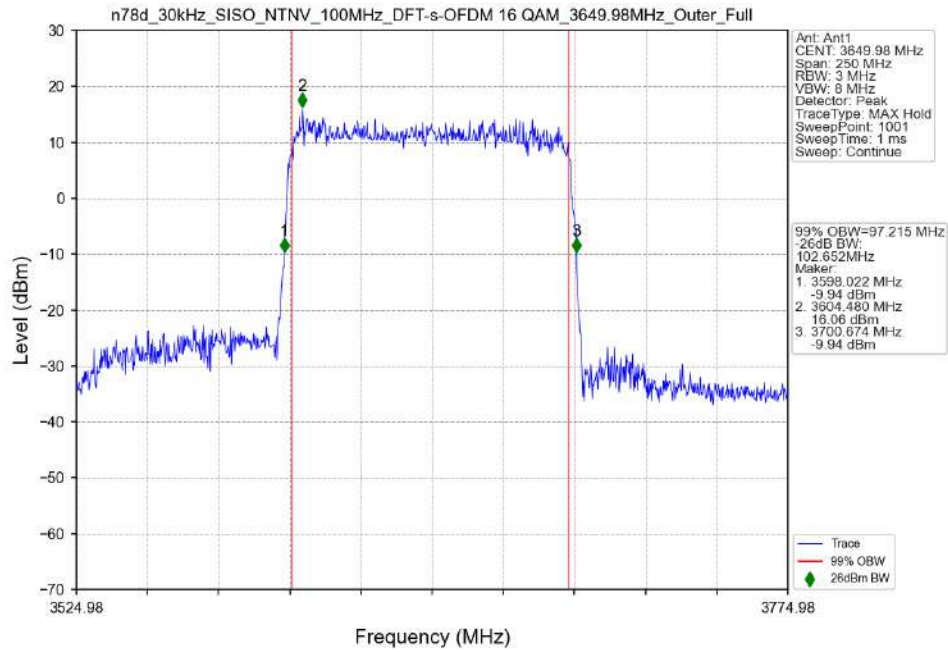
n78d\_30kHz\_SISO\_NTNV\_100MHz\_DFT-s-OFDM\_16\_QAM\_3600MHz\_Outer\_Full



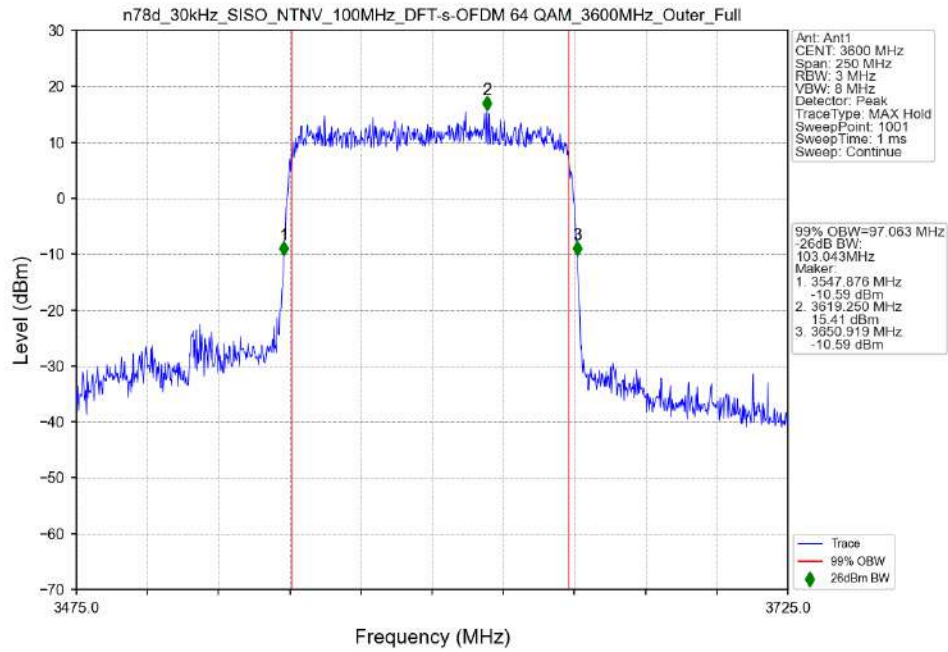
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n78d\_30kHz\_SISO\_NTNV\_100MHz\_DFT-s-OFDM 16 QAM\_3649.98MHz\_Outer\_Full

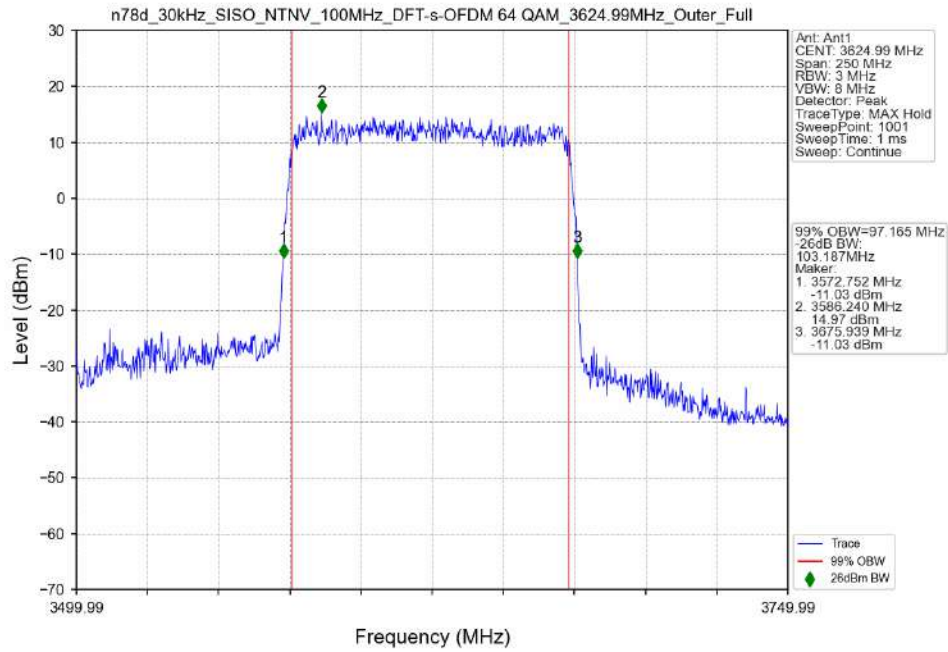


n78d\_30kHz\_SISO\_NTNV\_100MHz\_DFT-s-OFDM 64 QAM\_3600MHz\_Outer\_Full

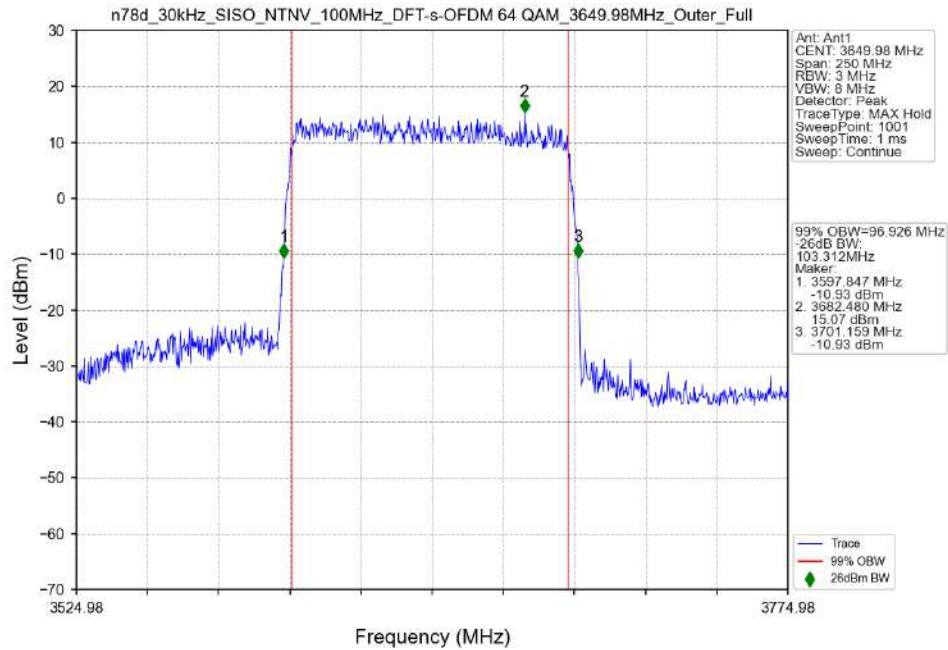




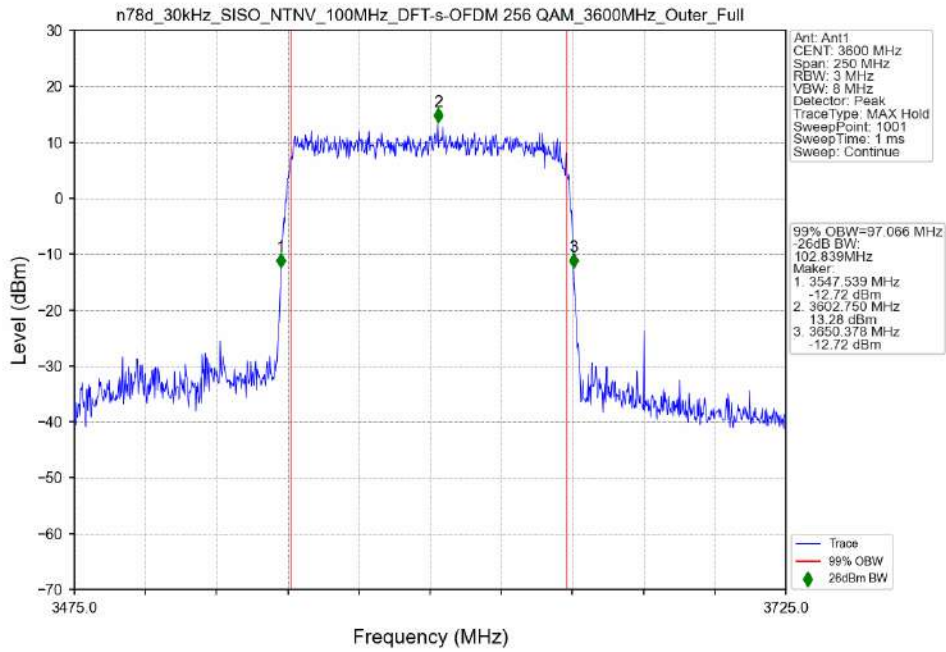
n78d\_30kHz\_SISO\_NTNV\_100MHz\_DFT-s-OFDM 64 QAM\_3624.99MHz\_Outer\_Full



n78d\_30kHz\_SISO\_NTNV\_100MHz\_DFT-s-OFDM 64 QAM\_3649.98MHz\_Outer\_Full



n78d\_30kHz\_SISO\_NTNV\_100MHz\_DFT-s-OFDM\_256\_QAM\_3600MHz\_Outer\_Full



n78d\_30kHz\_SISO\_NTNV\_100MHz\_DFT-s-OFDM\_256\_QAM\_3624.99MHz\_Outer\_Full

