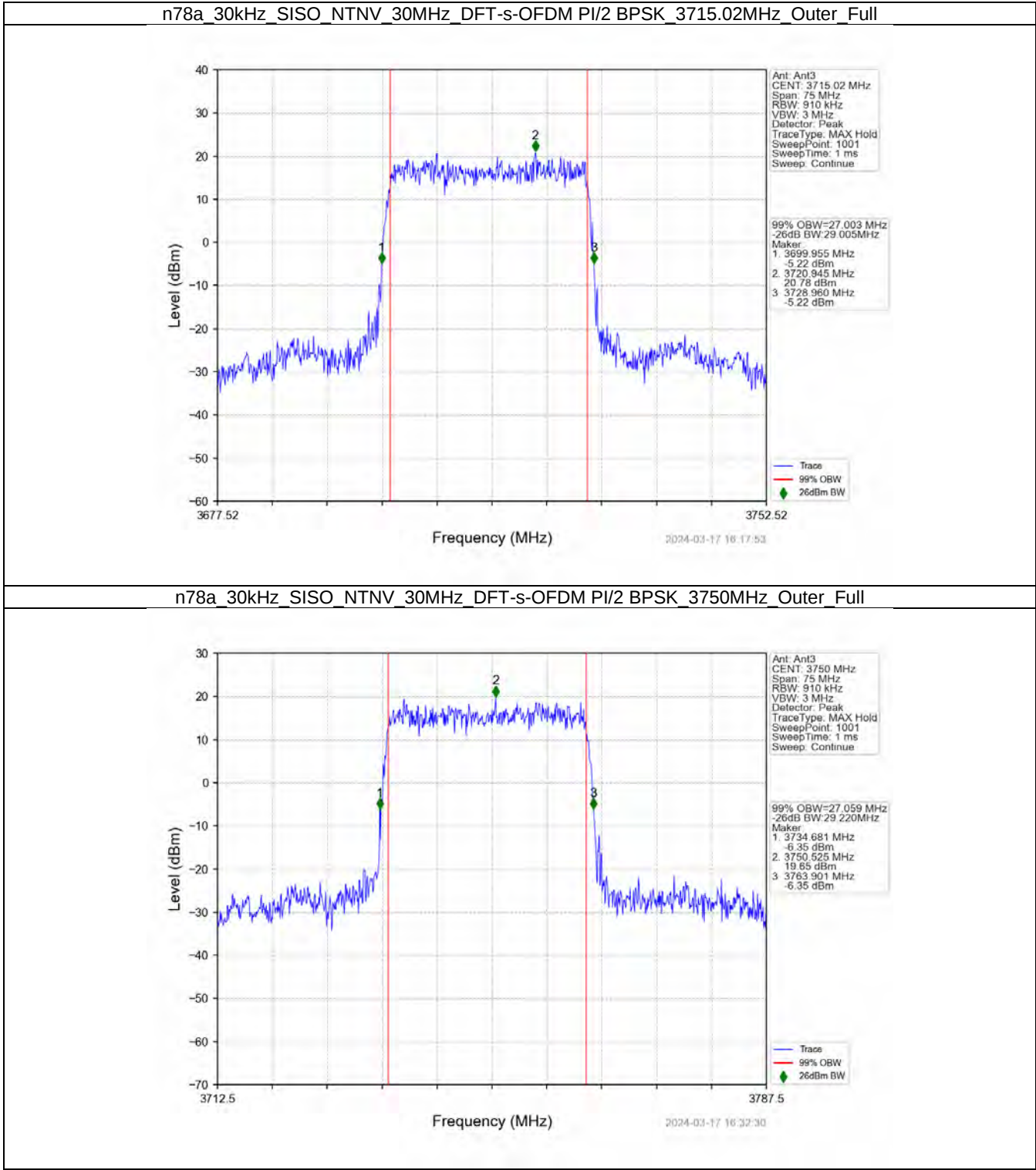


3.2 30k_SISO_30MHz_NTNV

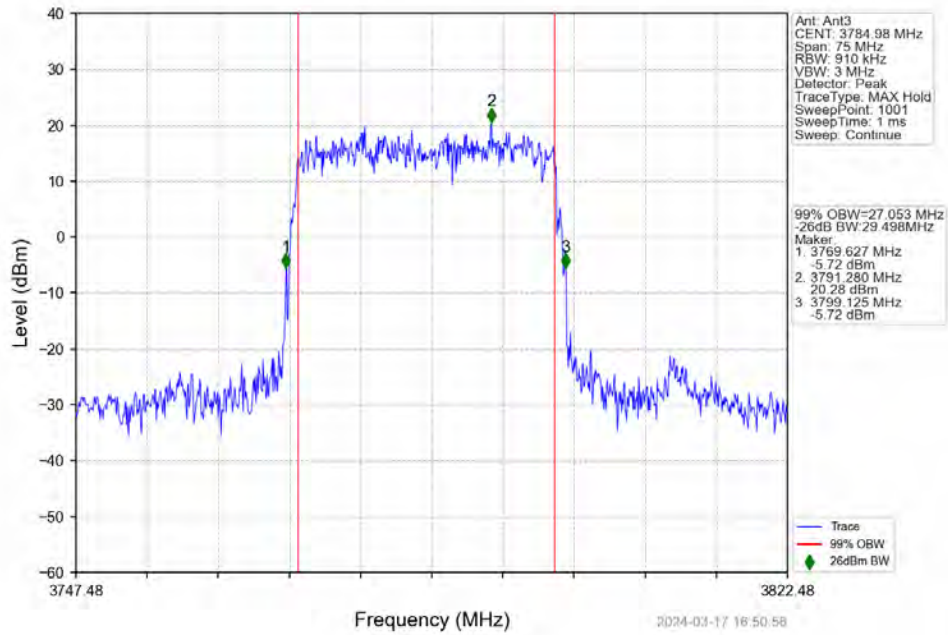
3.2.1 Test Result

5G NR n78a SCS=30kHz SISO 30MHz NTV						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3715.02	Outer_Full	27.00	29.00	/	Pass
	3750	Outer_Full	27.06	29.22	/	Pass
	3784.98	Outer_Full	27.05	29.50	/	Pass
DFT-s-OFDM QPSK	3715.02	Outer_Full	27.18	28.79	/	Pass
	3750	Outer_Full	27.10	28.95	/	Pass
	3784.98	Outer_Full	27.20	28.89	/	Pass
DFT-s-OFDM 16 QAM	3715.02	Outer_Full	27.25	29.20	/	Pass
	3750	Outer_Full	27.05	29.19	/	Pass
	3784.98	Outer_Full	27.32	29.55	/	Pass
DFT-s-OFDM 64 QAM	3715.02	Outer_Full	27.10	28.97	/	Pass
	3750	Outer_Full	27.14	29.06	/	Pass
	3784.98	Outer_Full	27.22	28.89	/	Pass
DFT-s-OFDM 256 QAM	3715.02	Outer_Full	27.02	28.91	/	Pass
	3750	Outer_Full	27.18	28.83	/	Pass
	3784.98	Outer_Full	27.09	29.08	/	Pass
CP-OFDM QPSK	3715.02	Outer_Full	28.09	30.01	/	Pass
	3750	Outer_Full	28.10	30.14	/	Pass
	3784.98	Outer_Full	28.30	29.95	/	Pass
CP-OFDM 16 QAM	3715.02	Outer_Full	28.13	29.88	/	Pass
	3750	Outer_Full	28.11	30.47	/	Pass
	3784.98	Outer_Full	28.03	29.99	/	Pass
CP-OFDM 64 QAM	3715.02	Outer_Full	28.17	29.94	/	Pass
	3750	Outer_Full	28.32	30.13	/	Pass
	3784.98	Outer_Full	28.07	29.87	/	Pass
CP-OFDM 256 QAM	3715.02	Outer_Full	28.05	30.14	/	Pass
	3750	Outer_Full	27.98	30.00	/	Pass
	3784.98	Outer_Full	28.01	30.13	/	Pass

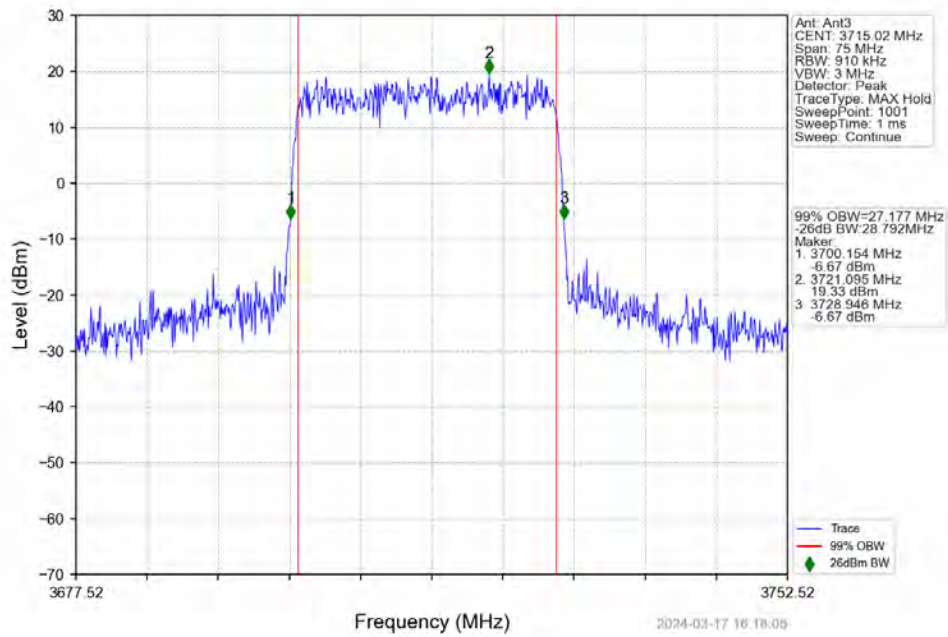
3.2.2 Test Graph



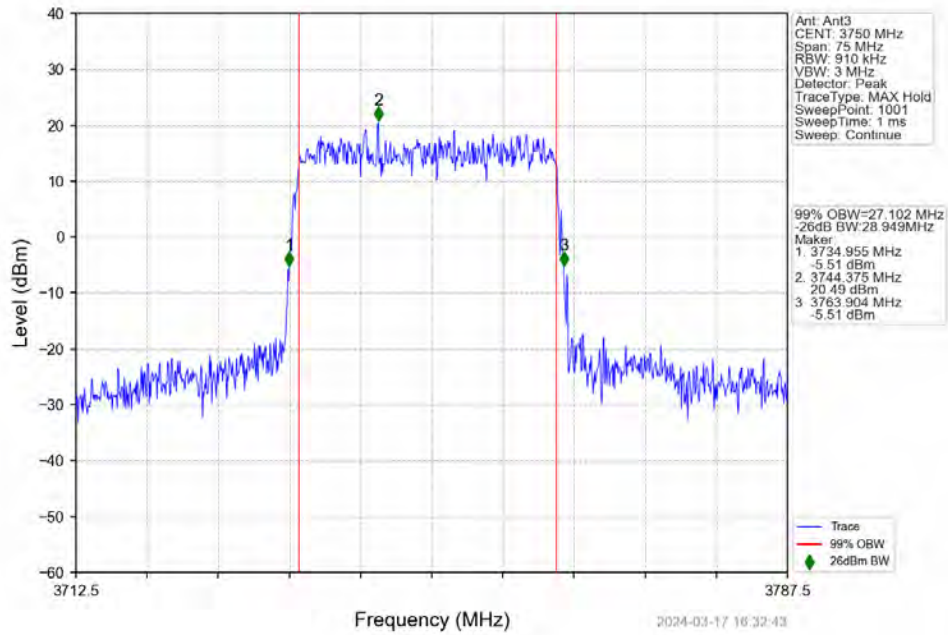
n78a 30kHz SISO NTN 30MHz DFT-s-OFDM PI/2 BPSK 3784.98MHz Outer Full



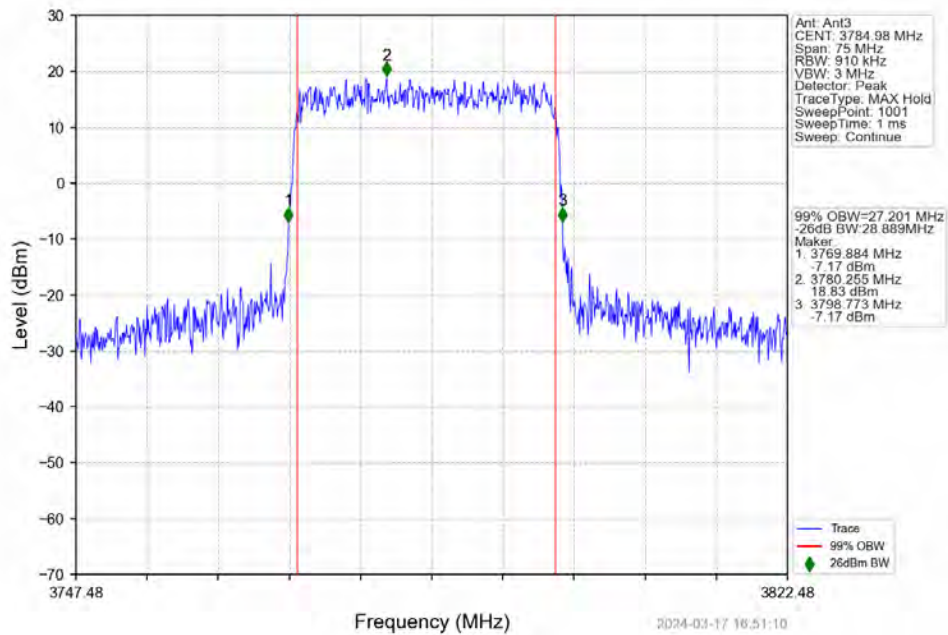
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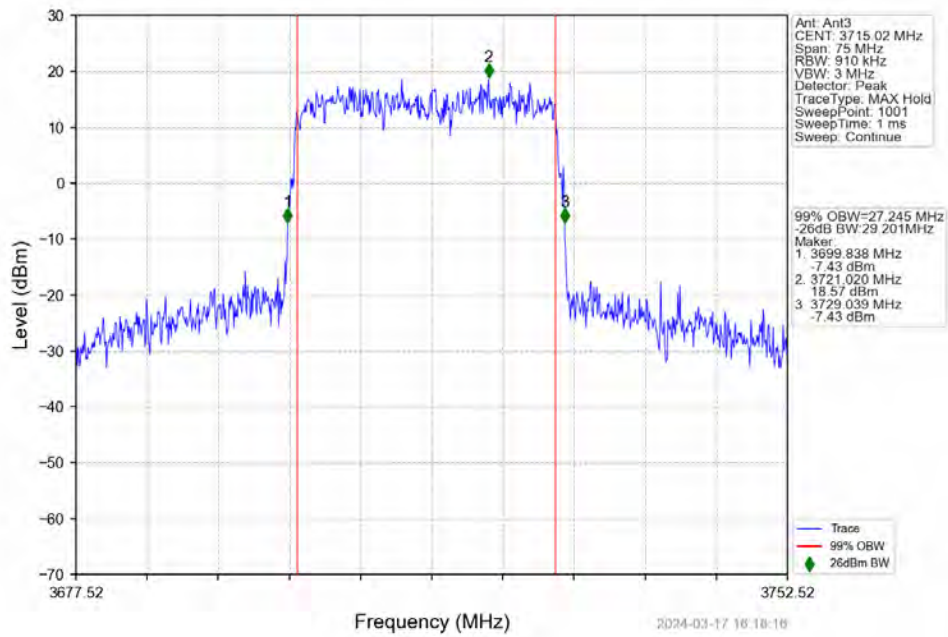
n78a 30kHz SISO NTN 30MHz DFT-s-OFDM QPSK 3750MHz Outer Full



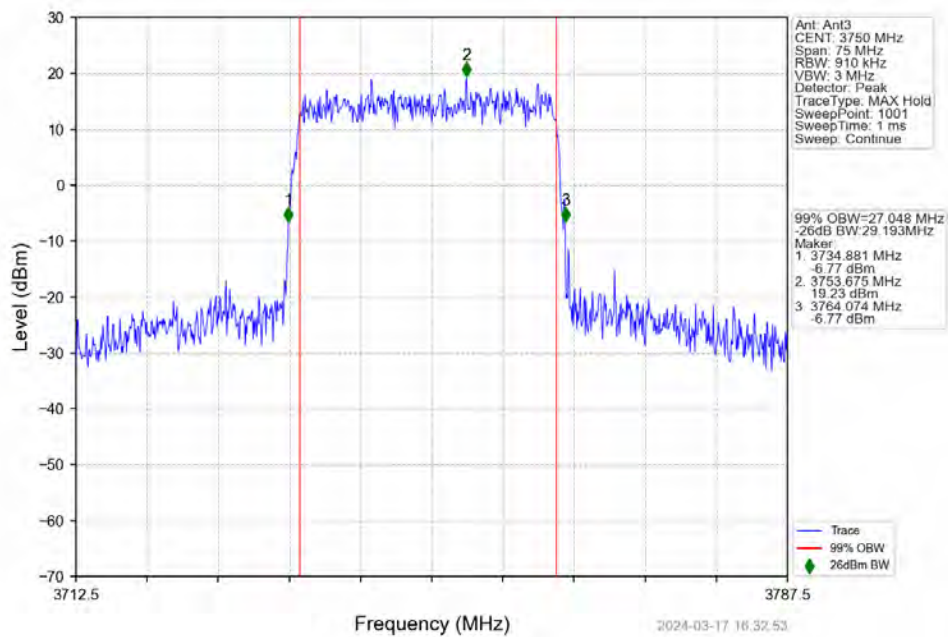
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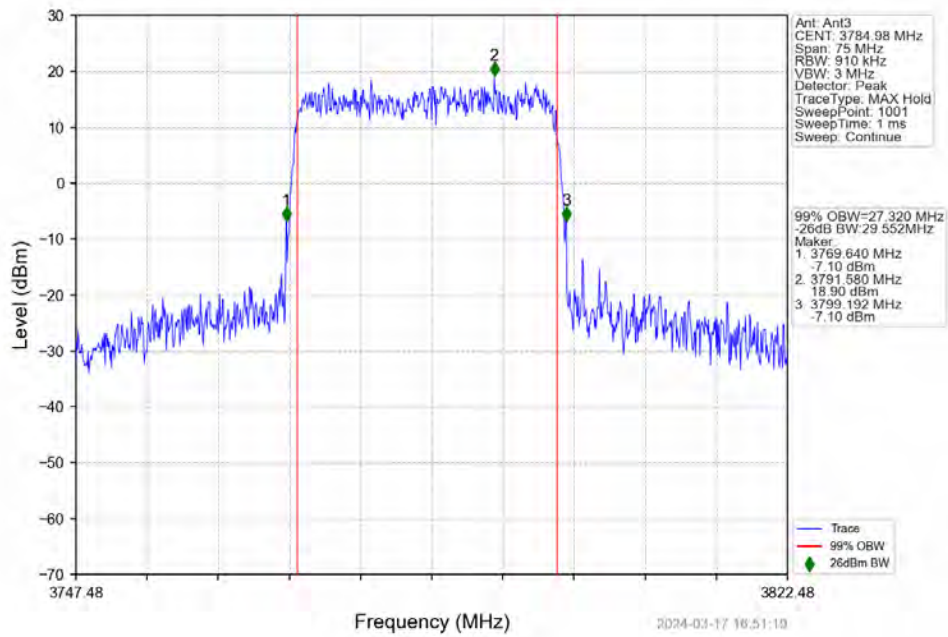
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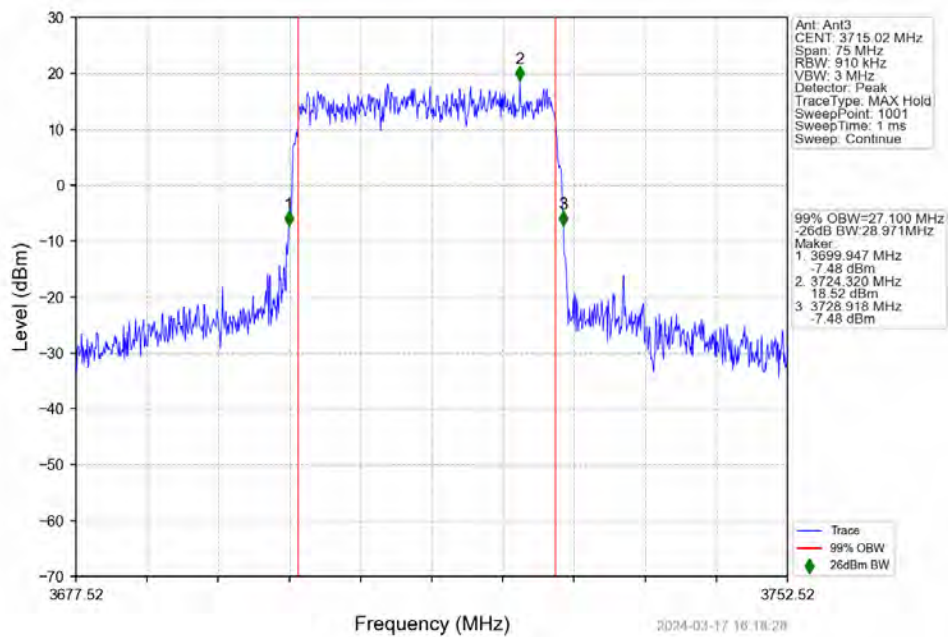
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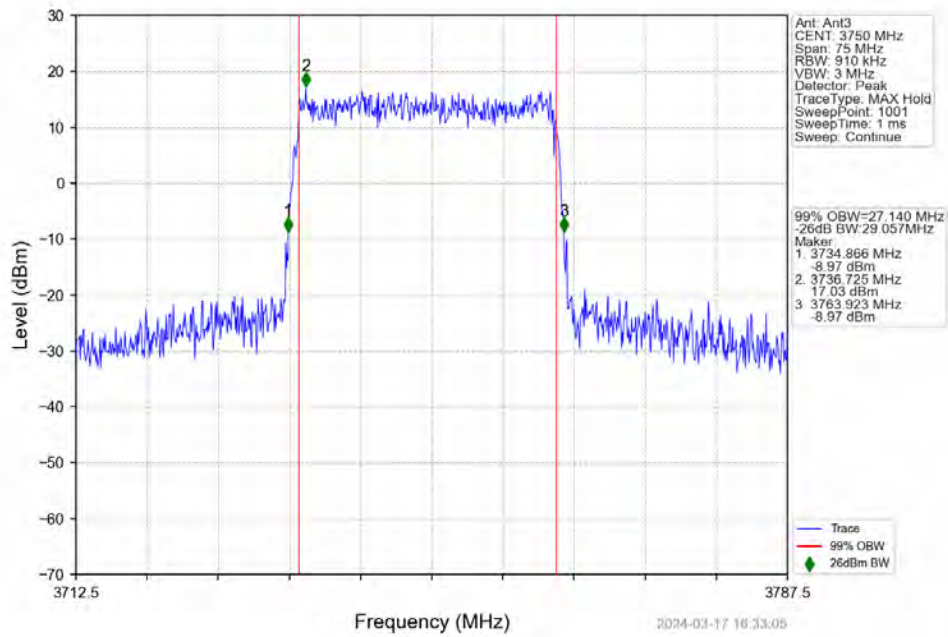
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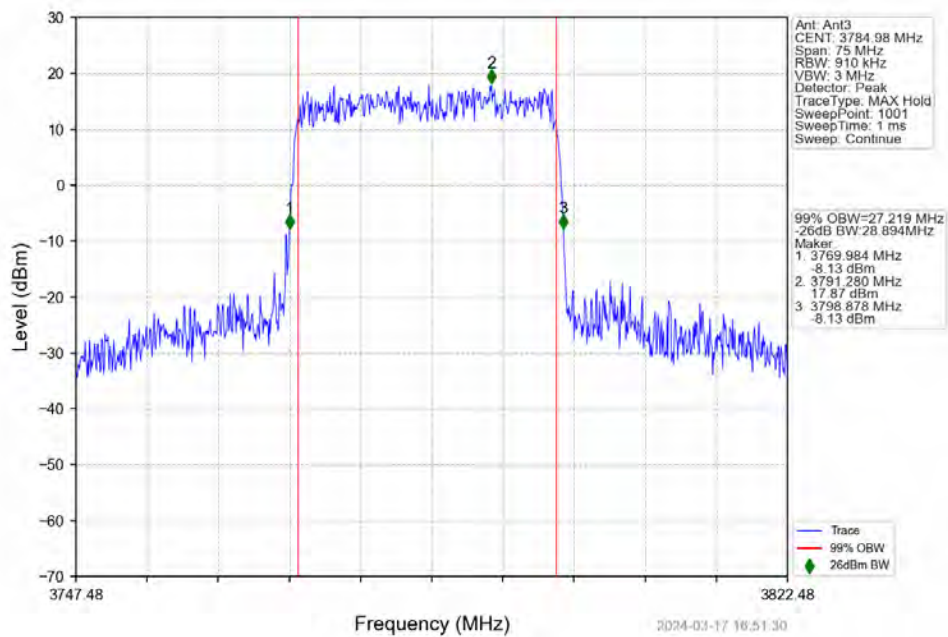
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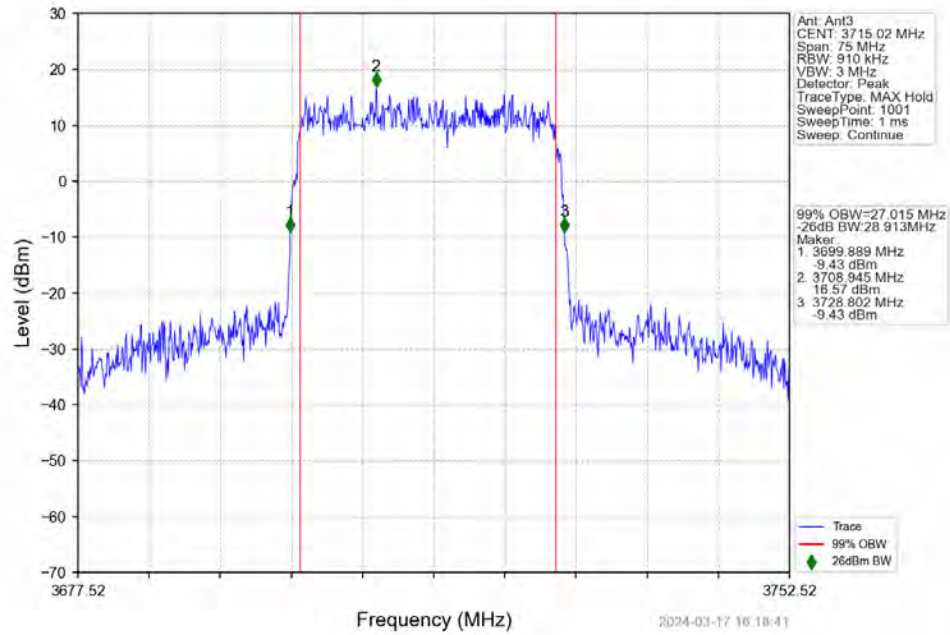
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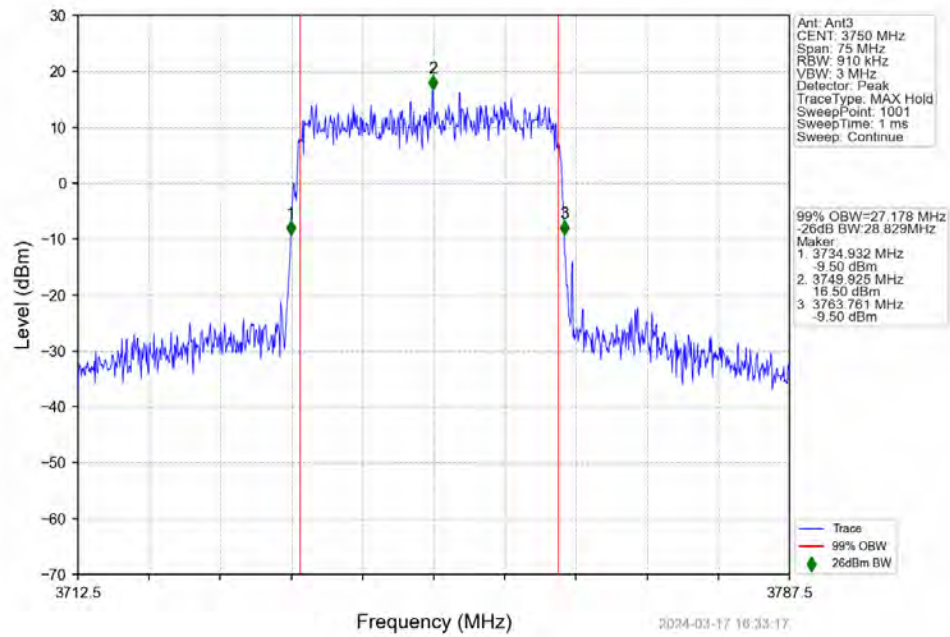
n78a 30kHz SISO NTN 30MHz DFT-s-OFDM 64 QAM 3784.98MHz Outer Full



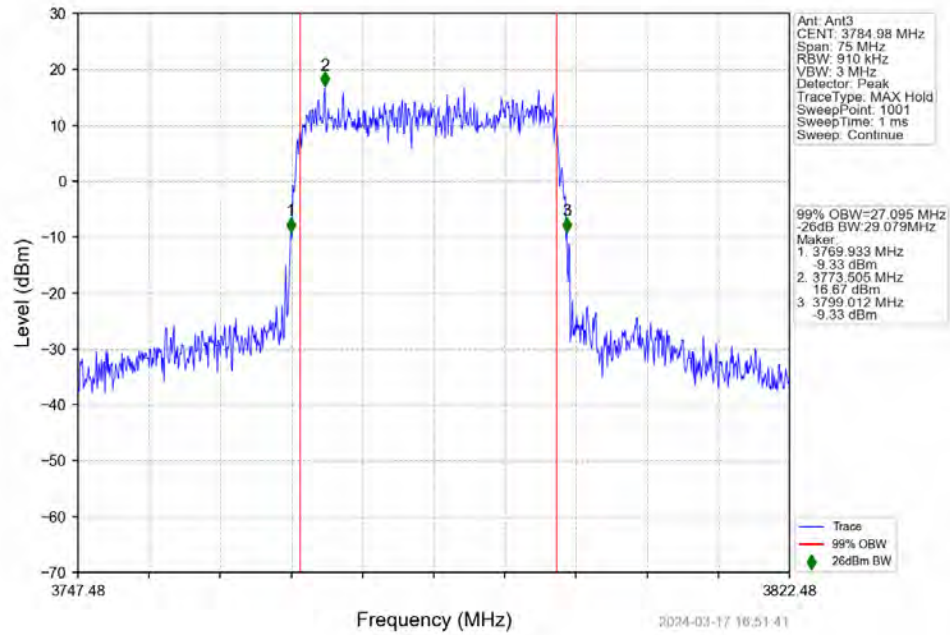
n78a 30kHz SISO NTN 30MHz DFT-s-OFDM 256 QAM 3715.02MHz Outer Full



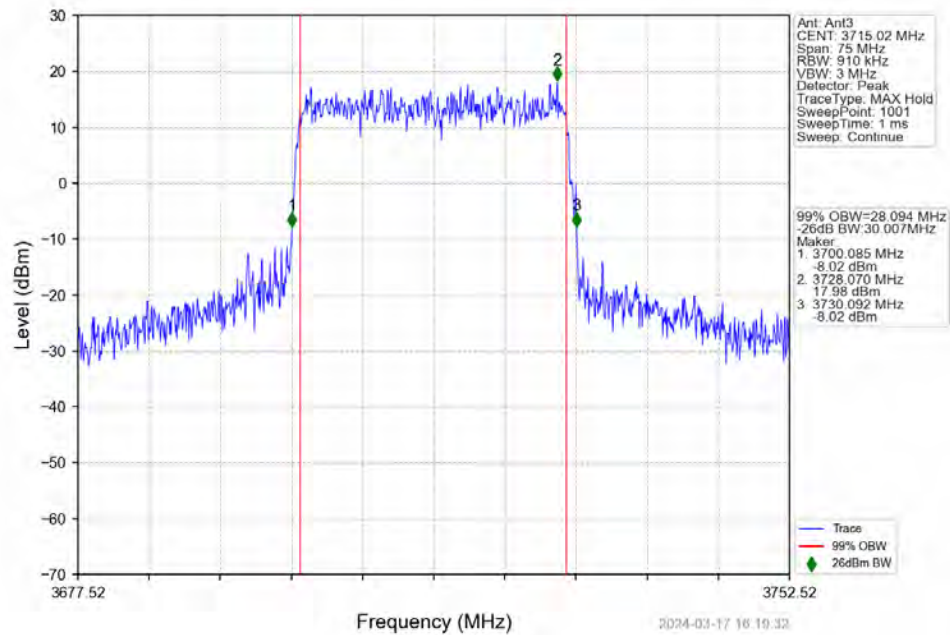
n78a 30kHz SISO NTN 30MHz DFT-s-OFDM 256 QAM 3750MHz Outer Full



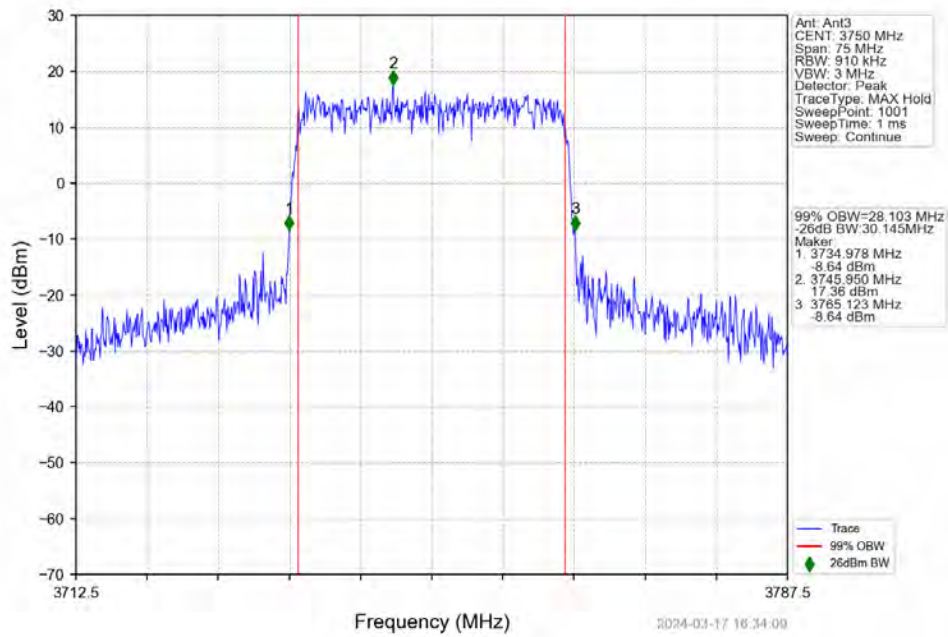
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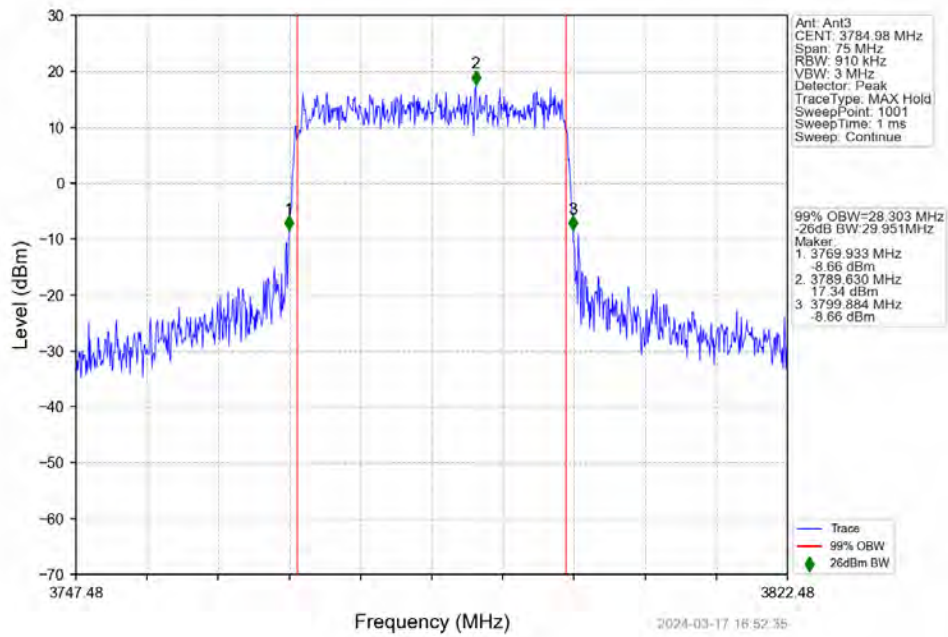
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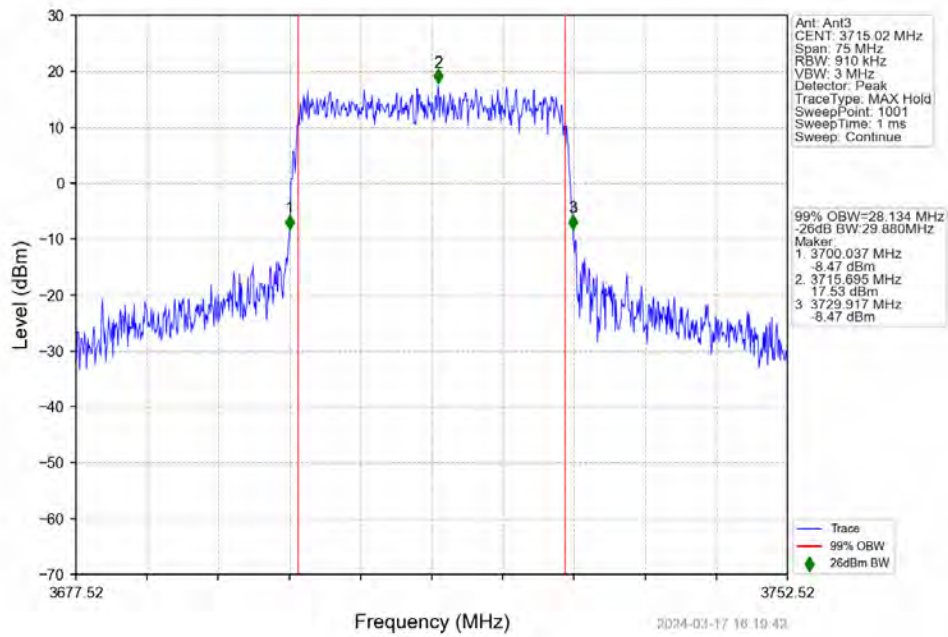
n78a 30kHz SISO NTN 30MHz CP-OFDM QPSK 3750MHz Outer Full



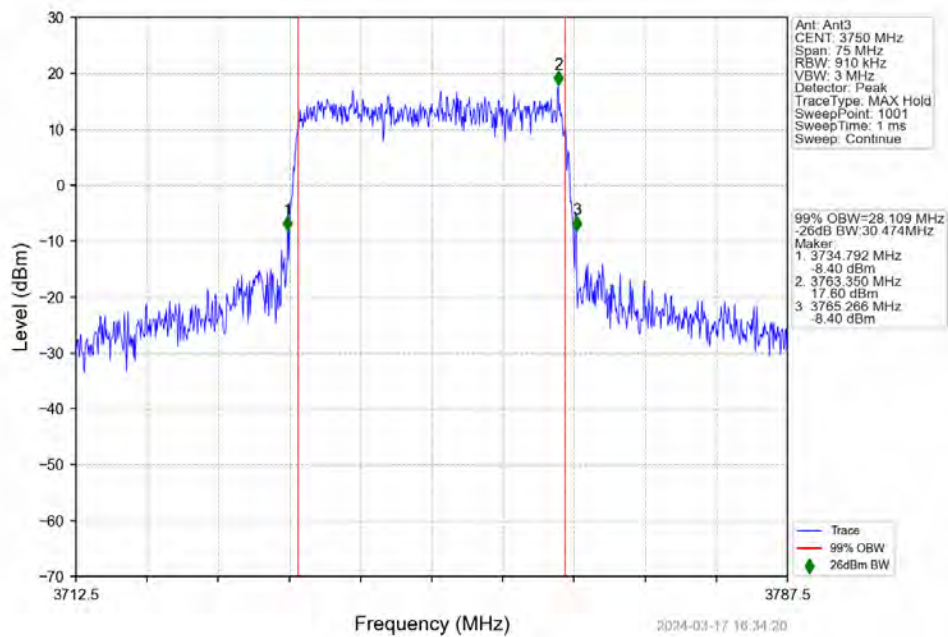
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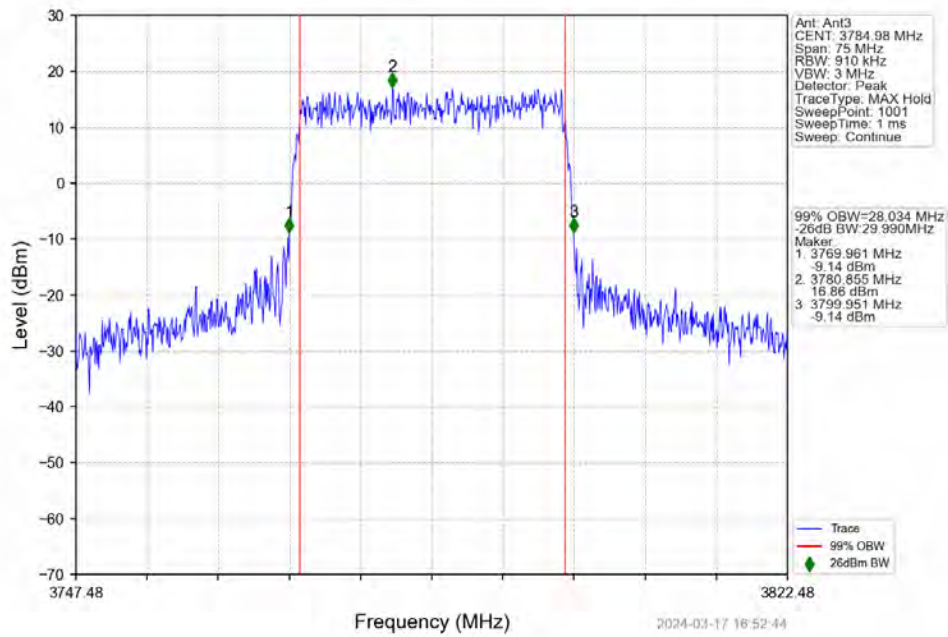
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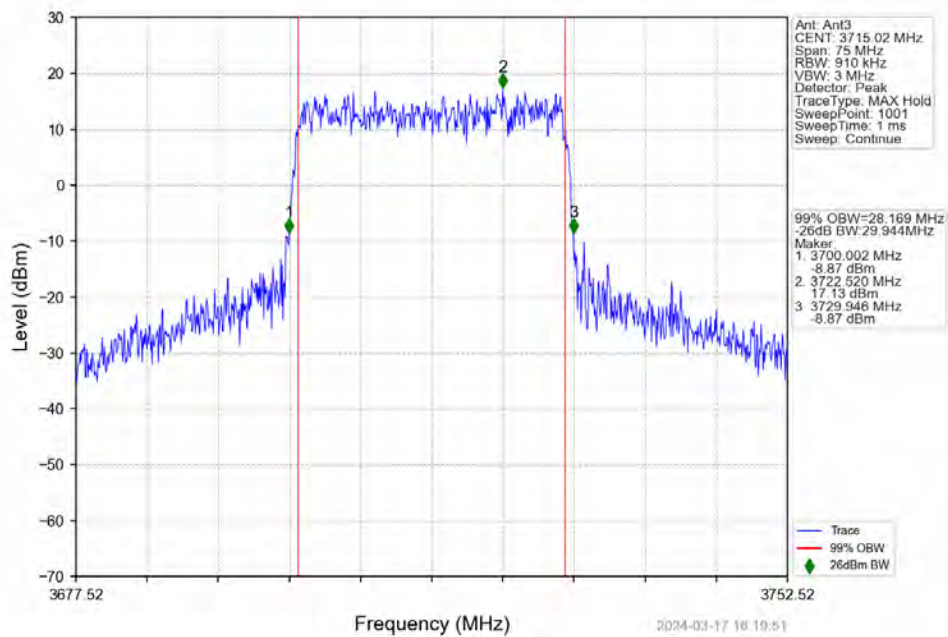
n78a 30kHz SISO NTN 30MHz CP-OFDM 16 QAM 3750MHz Outer Full



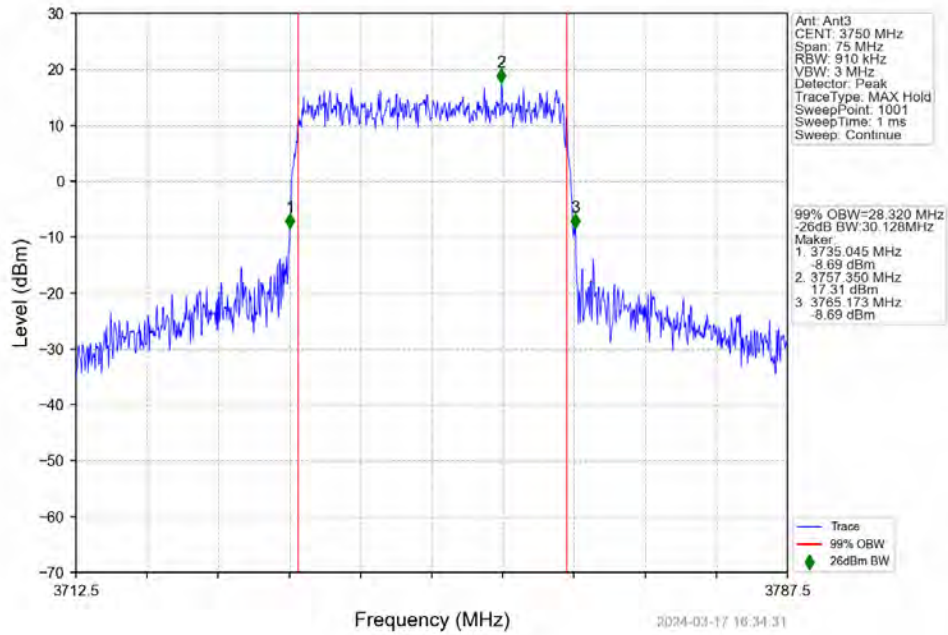
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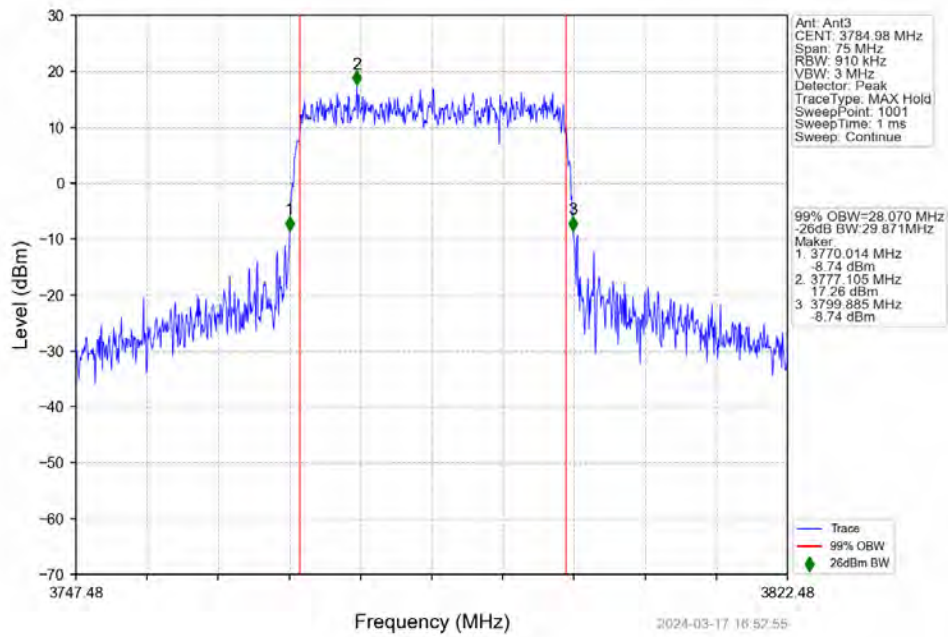
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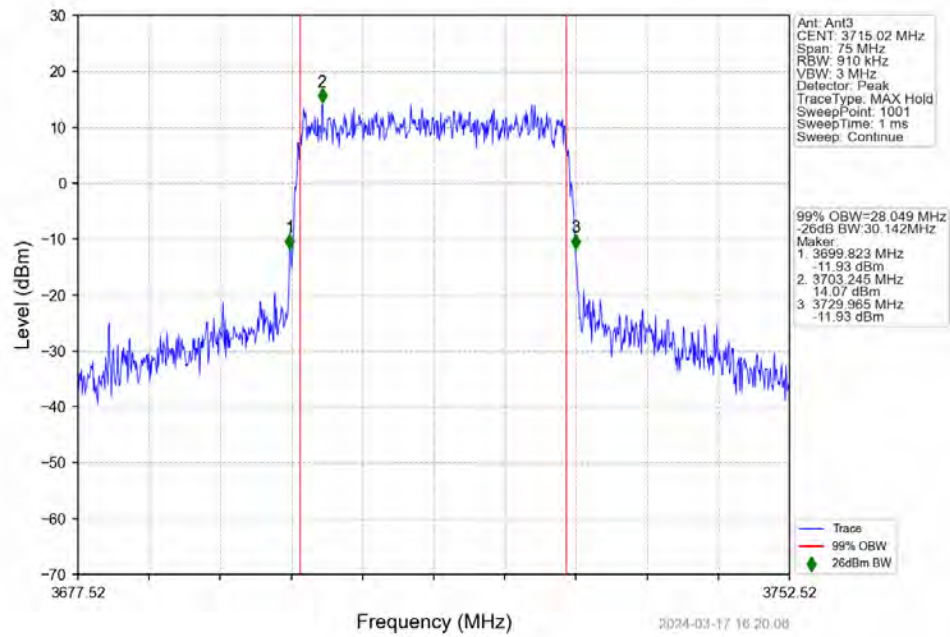
n78a 30kHz SISO NTN 30MHz CP-OFDM 64 QAM 3750MHz Outer Full



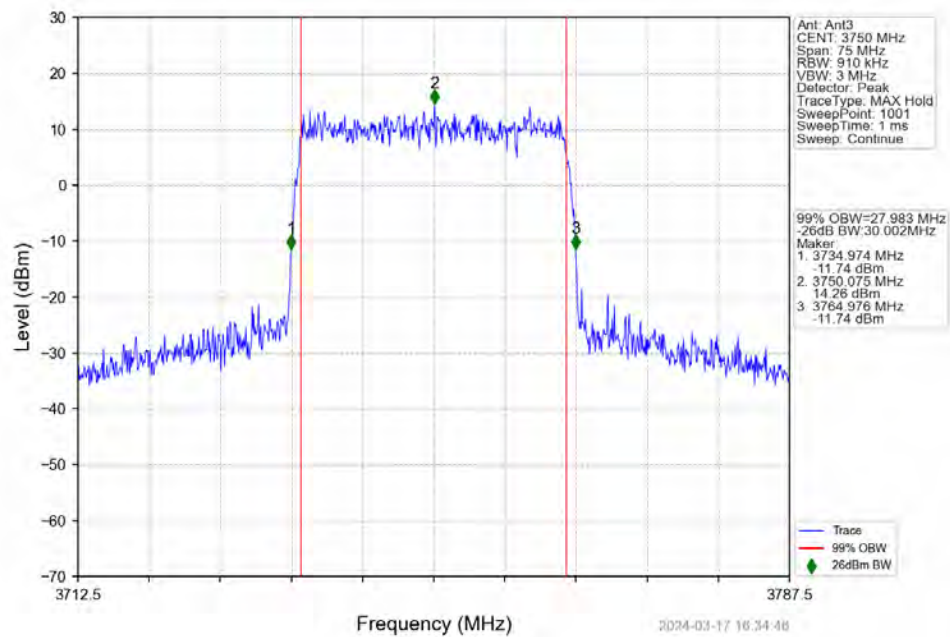
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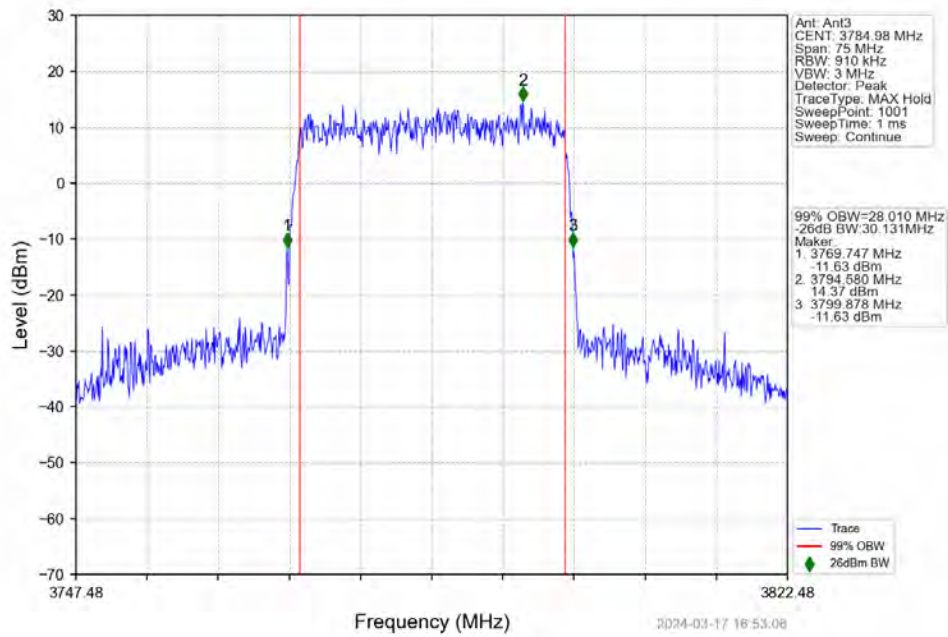
n78a 30kHz SISO NTN 30MHz CP-OFDM 256 QAM 3715.02MHz Outer Full



n78a 30kHz SISO NTN 30MHz CP-OFDM 256 QAM 3750MHz Outer Full



n78a 30kHz SISO NTN 30MHz CP-OFDM 256 QAM 3784.98MHz Outer Full

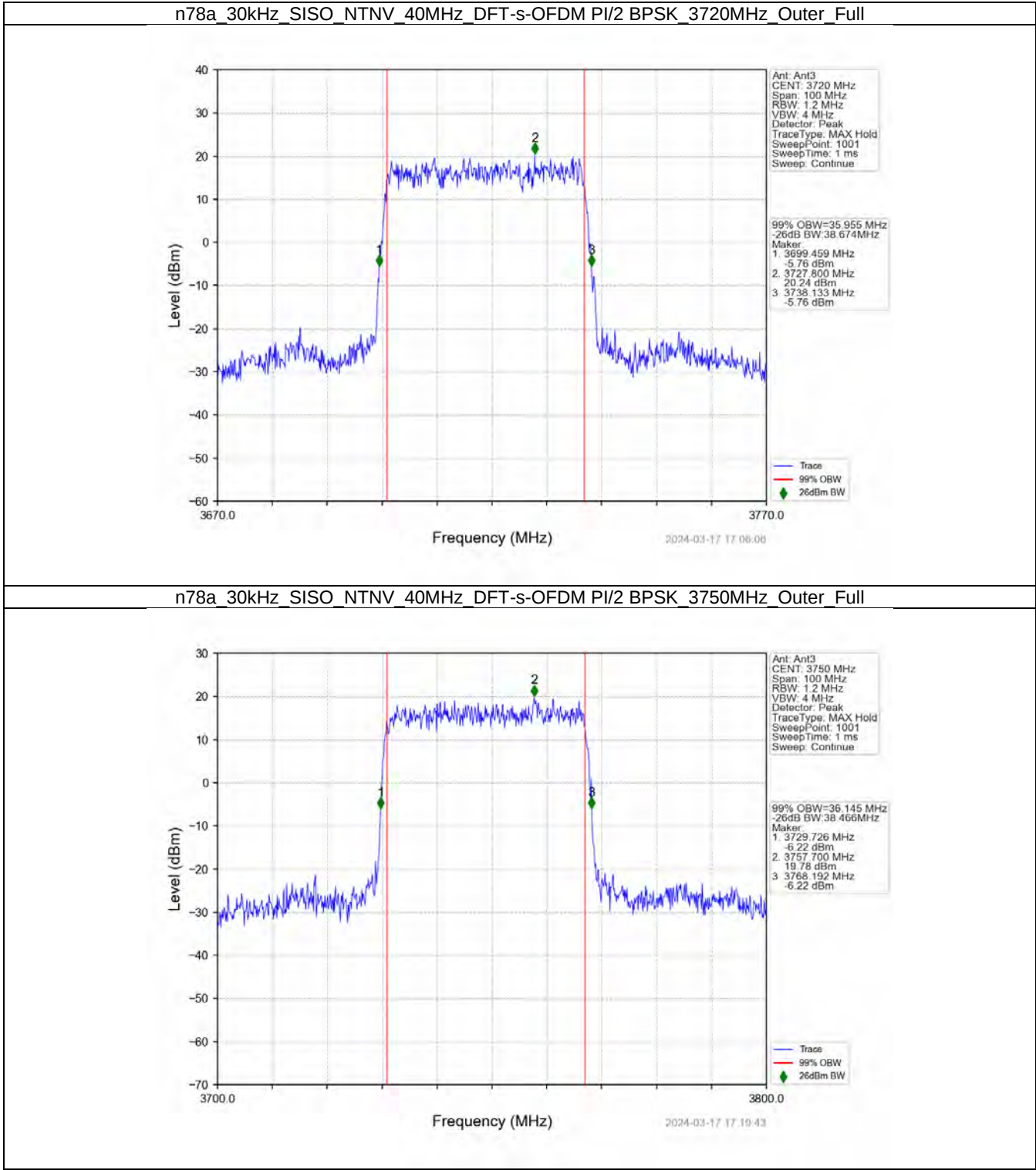


3.3 30k_SISO_40MHz_NTNV

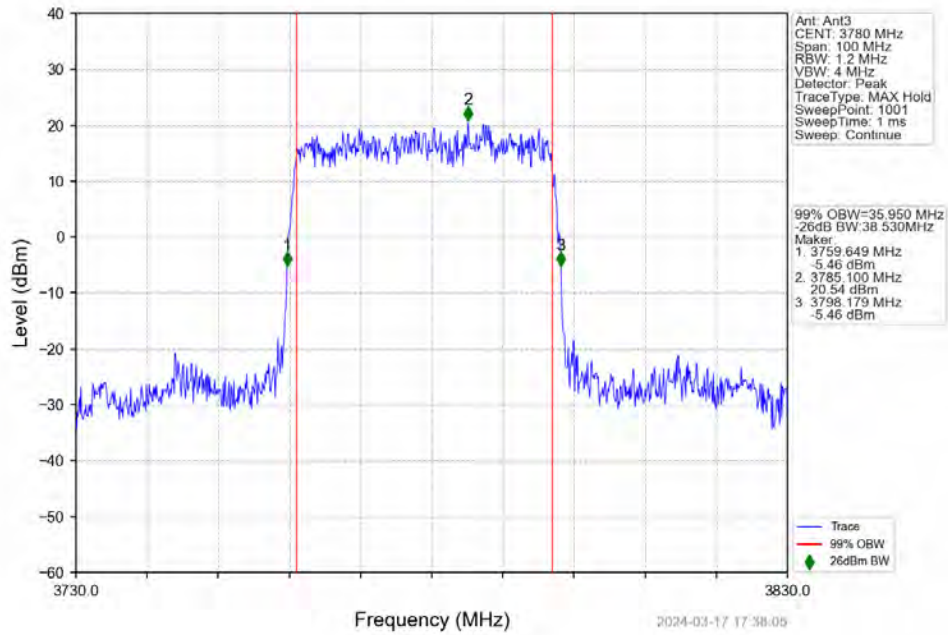
3.3.1 Test Result

5G NR n78a SCS=30kHz SISO 40MHz NTNv						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3720	Outer_Full	35.95	38.67	/	Pass
	3750	Outer_Full	36.15	38.47	/	Pass
	3780	Outer_Full	35.95	38.53	/	Pass
DFT-s-OFDM QPSK	3720	Outer_Full	36.04	38.75	/	Pass
	3750	Outer_Full	36.21	38.35	/	Pass
	3780	Outer_Full	35.86	38.51	/	Pass
DFT-s-OFDM 16 QAM	3720	Outer_Full	35.98	38.45	/	Pass
	3750	Outer_Full	35.76	38.54	/	Pass
	3780	Outer_Full	36.05	38.55	/	Pass
DFT-s-OFDM 64 QAM	3720	Outer_Full	35.87	38.54	/	Pass
	3750	Outer_Full	35.92	38.44	/	Pass
	3780	Outer_Full	36.11	38.60	/	Pass
DFT-s-OFDM 256 QAM	3720	Outer_Full	35.91	38.84	/	Pass
	3750	Outer_Full	36.02	38.82	/	Pass
	3780	Outer_Full	35.99	38.45	/	Pass
CP-OFDM QPSK	3720	Outer_Full	38.01	40.60	/	Pass
	3750	Outer_Full	38.24	40.81	/	Pass
	3780	Outer_Full	38.06	40.70	/	Pass
CP-OFDM 16 QAM	3720	Outer_Full	37.98	40.61	/	Pass
	3750	Outer_Full	38.09	40.48	/	Pass
	3780	Outer_Full	38.04	40.64	/	Pass
CP-OFDM 64 QAM	3720	Outer_Full	38.07	41.10	/	Pass
	3750	Outer_Full	38.13	40.58	/	Pass
	3780	Outer_Full	38.07	40.69	/	Pass
CP-OFDM 256 QAM	3720	Outer_Full	38.16	40.81	/	Pass
	3750	Outer_Full	37.78	40.57	/	Pass
	3780	Outer_Full	37.96	40.81	/	Pass

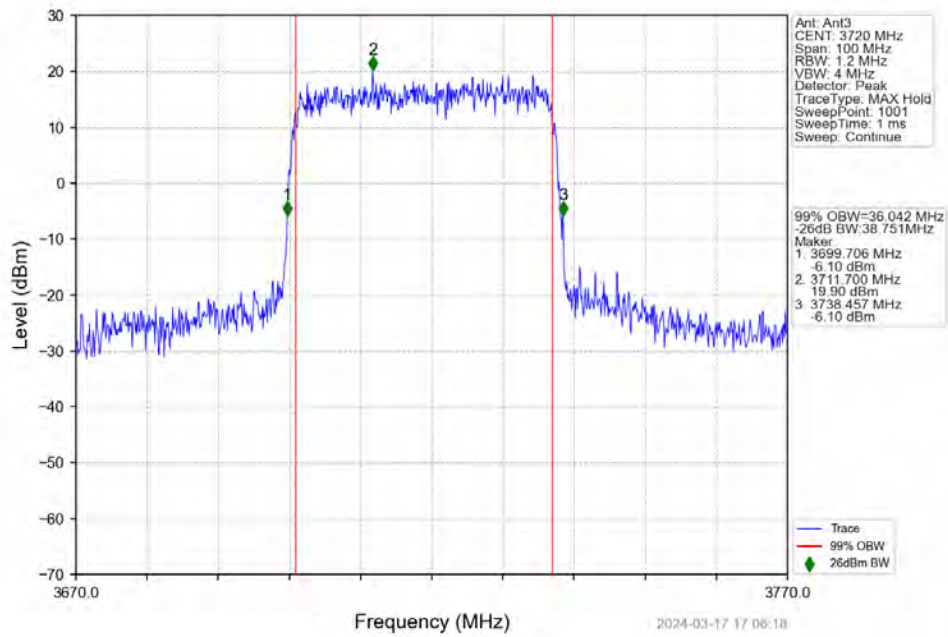
3.3.2 Test Graph



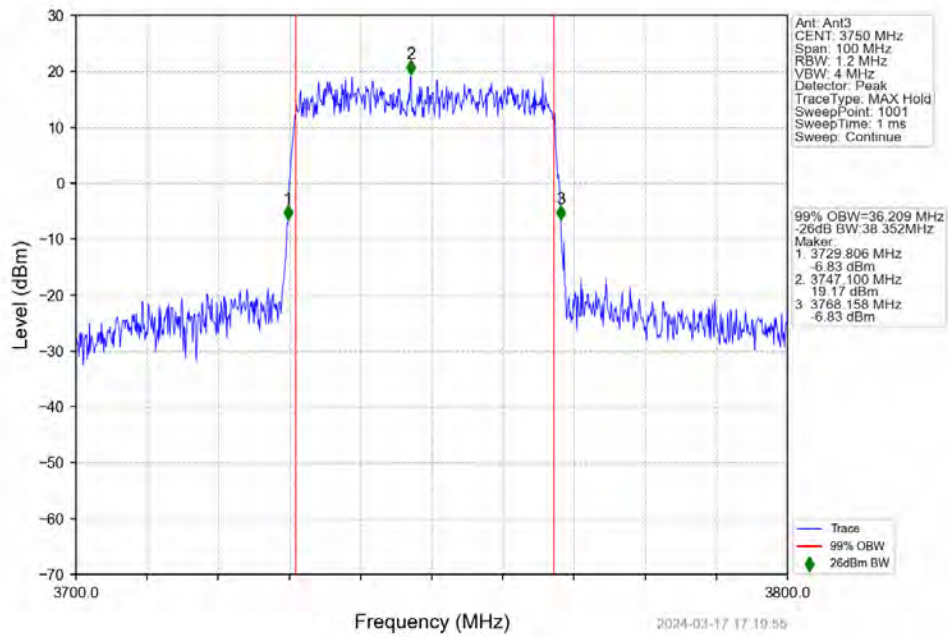
n78a 30kHz SISO NTN 40MHz DFT-s-OFDM PI/2 BPSK 3780MHz Outer Full



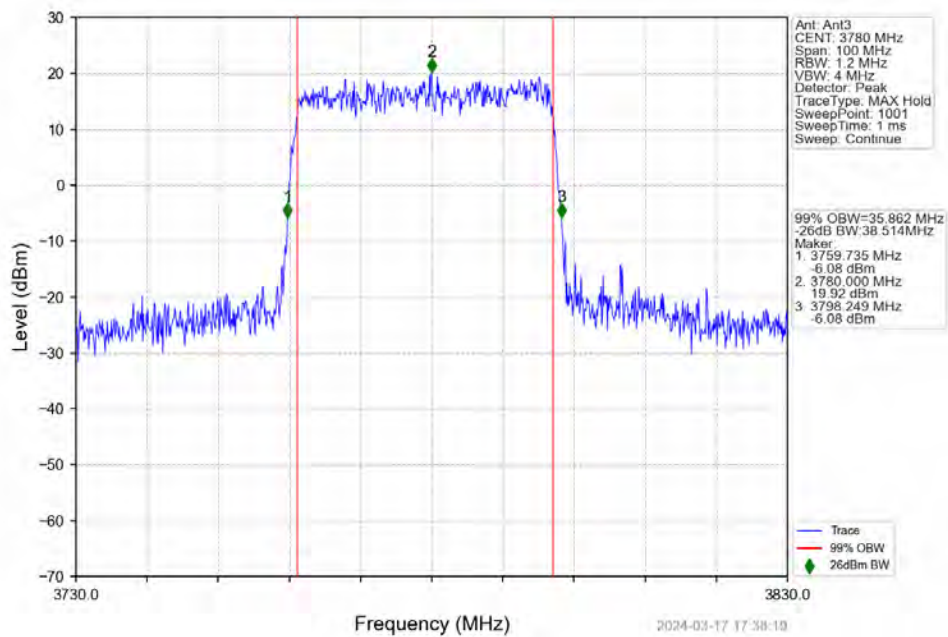
n78a 30kHz SISO NTN 40MHz DFT-s-OFDM QPSK 3720MHz Outer Full



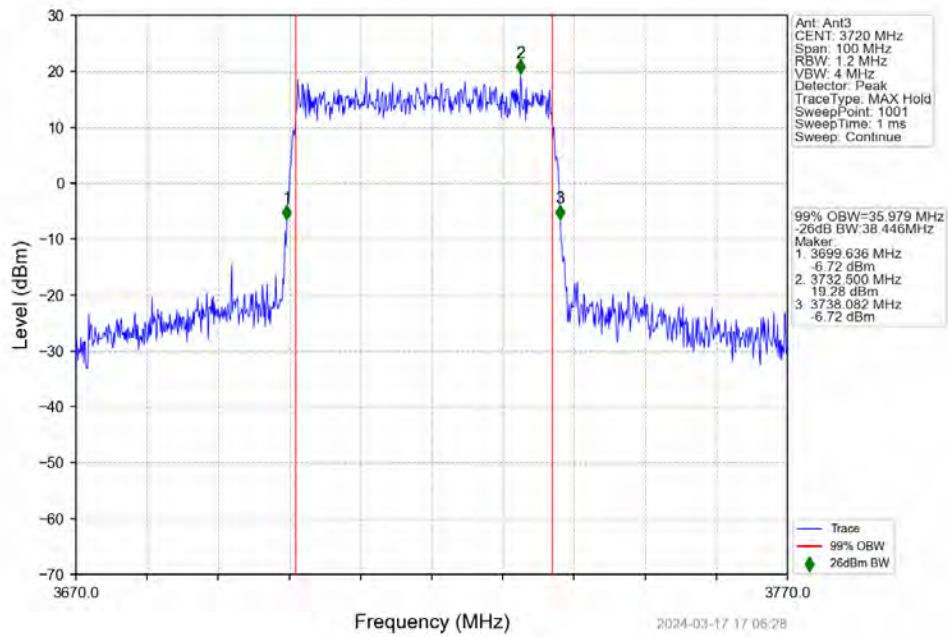
n78a 30kHz SISO NTN 40MHz DFT-s-OFDM QPSK 3750MHz Outer Full



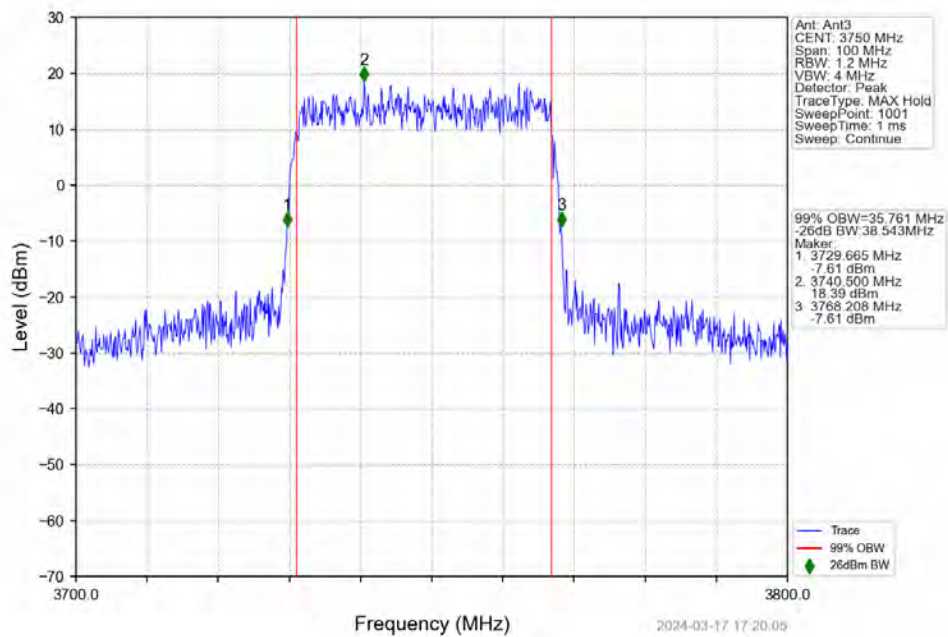
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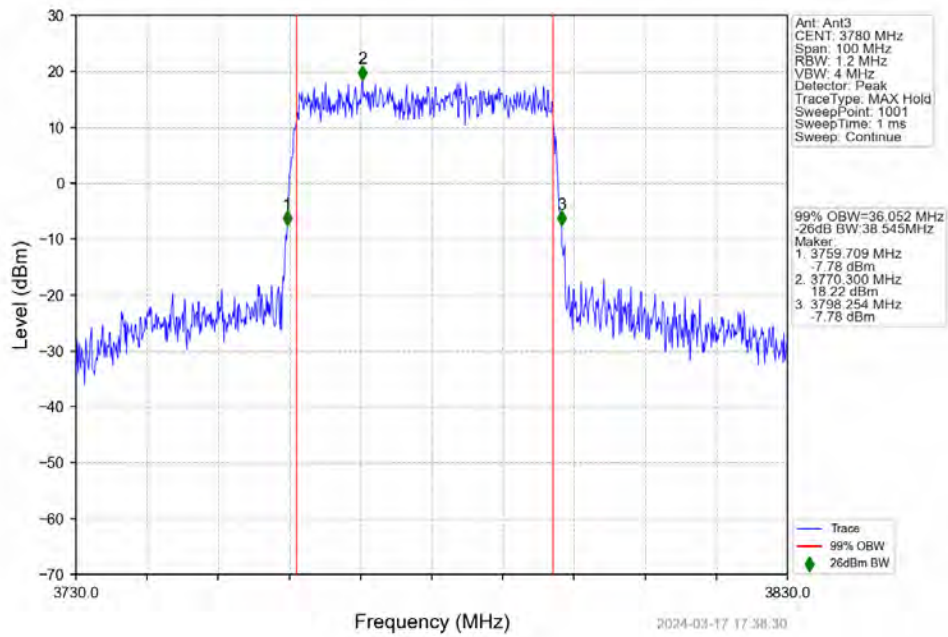
n78a 30kHz SISO NTN 40MHz DFT-s-OFDM 16 QAM 3720MHz Outer Full



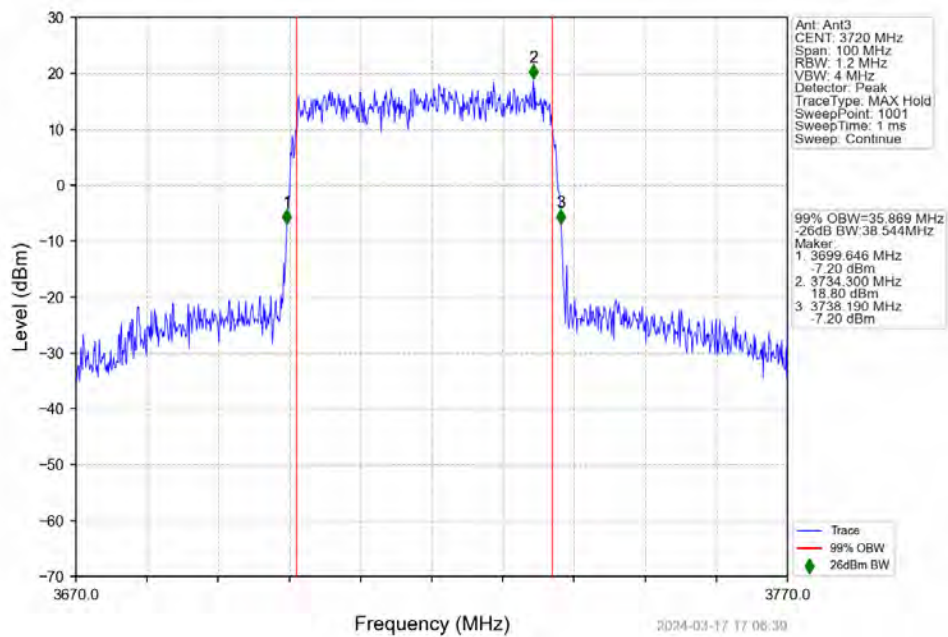
n78a 30kHz SISO NTN 40MHz DFT-s-OFDM 16 QAM 3750MHz Outer Full



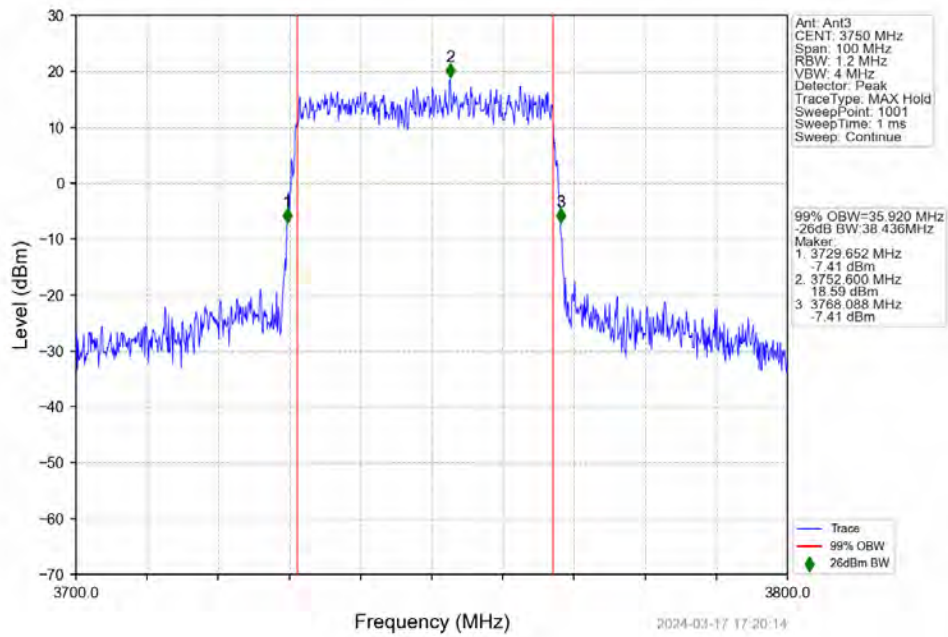
n78a 30kHz SISO NTN 40MHz DFT-s-OFDM 16 QAM 3780MHz Outer Full



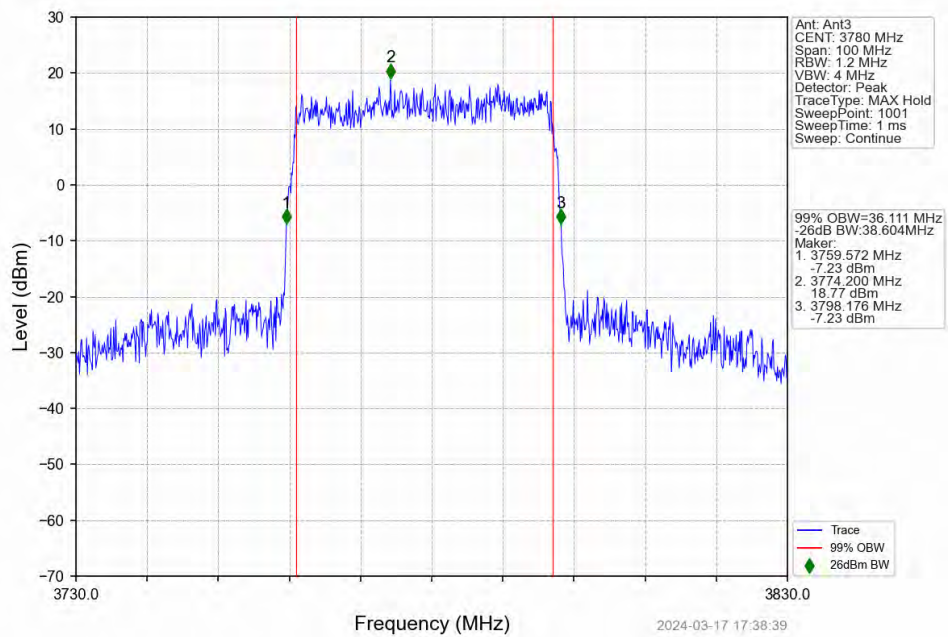
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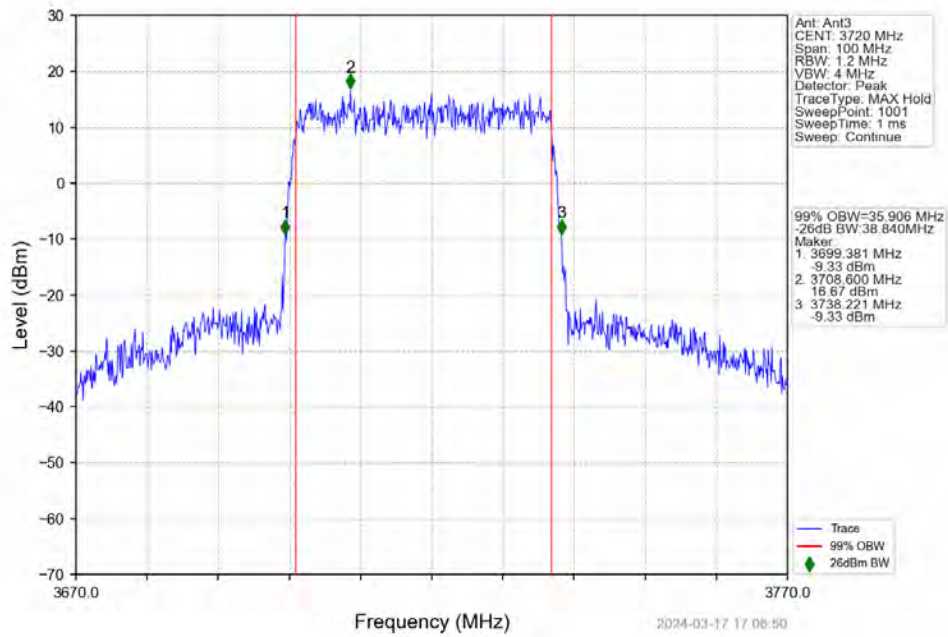
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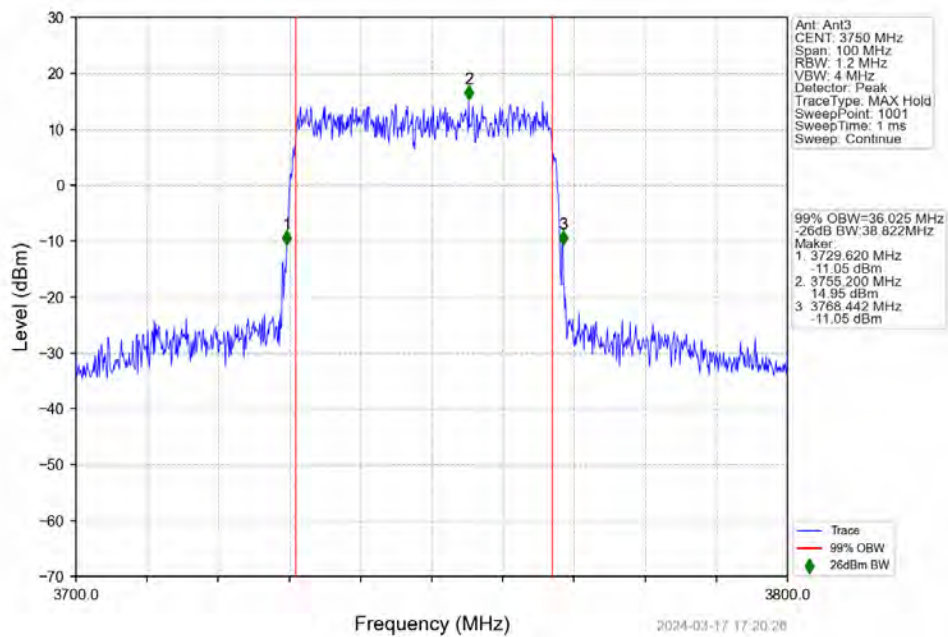
n78a 30kHz SISO NTN 40MHz DFT-s-OFDM 64 QAM 3780MHz Outer Full



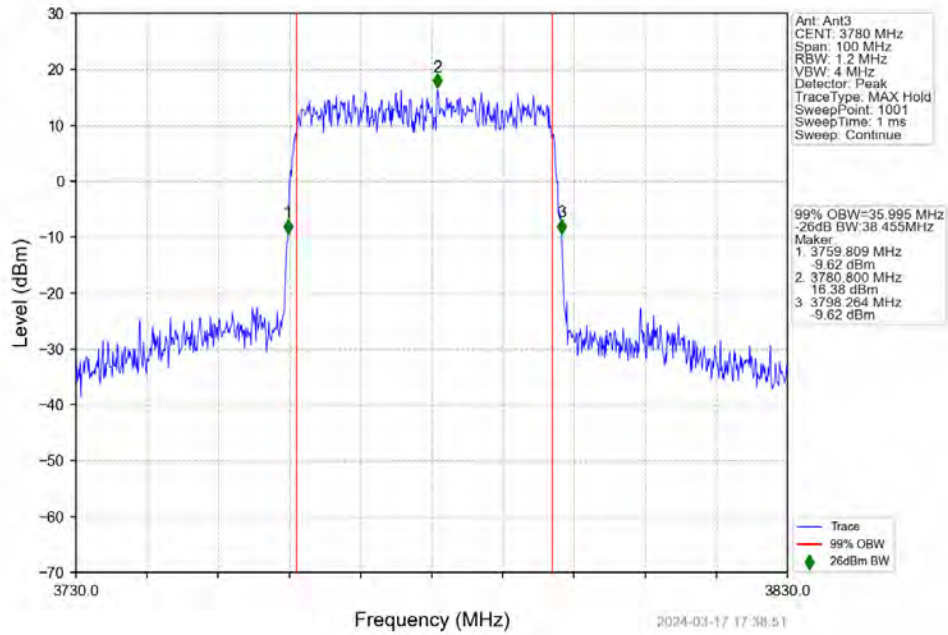
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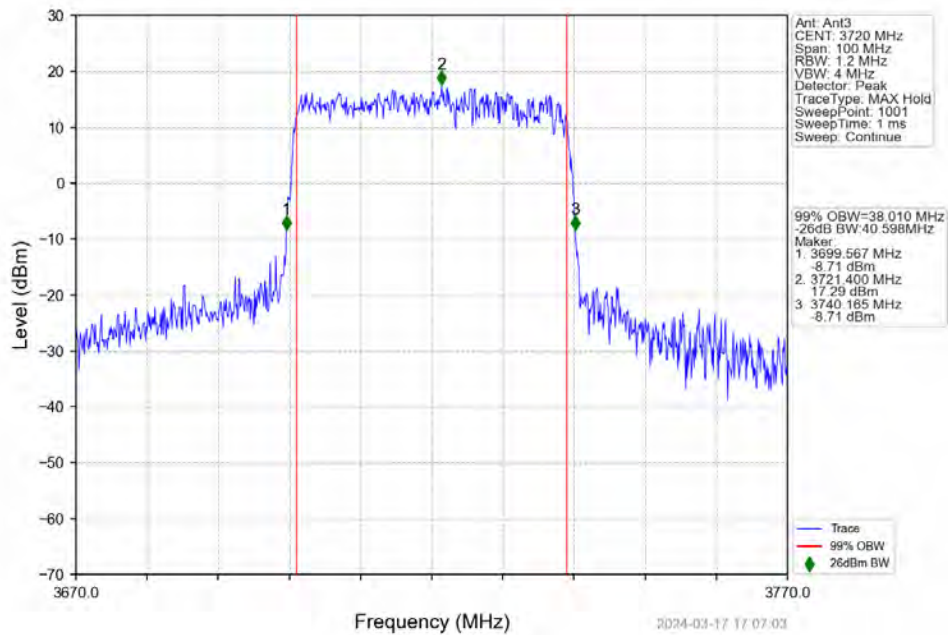
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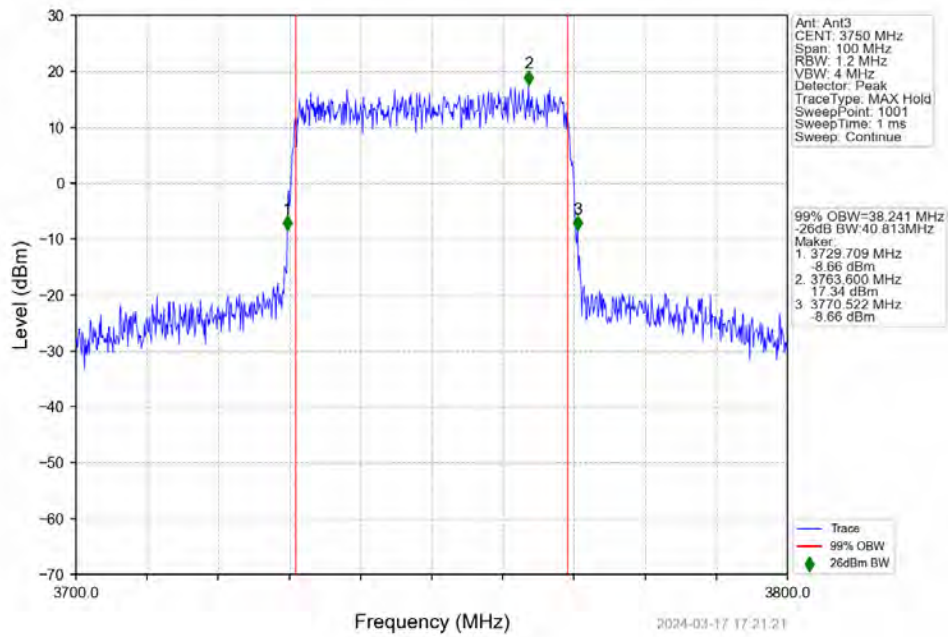
n78a 30kHz SISO NTN 40MHz DFT-s-OFDM 256 QAM 3780MHz Outer Full



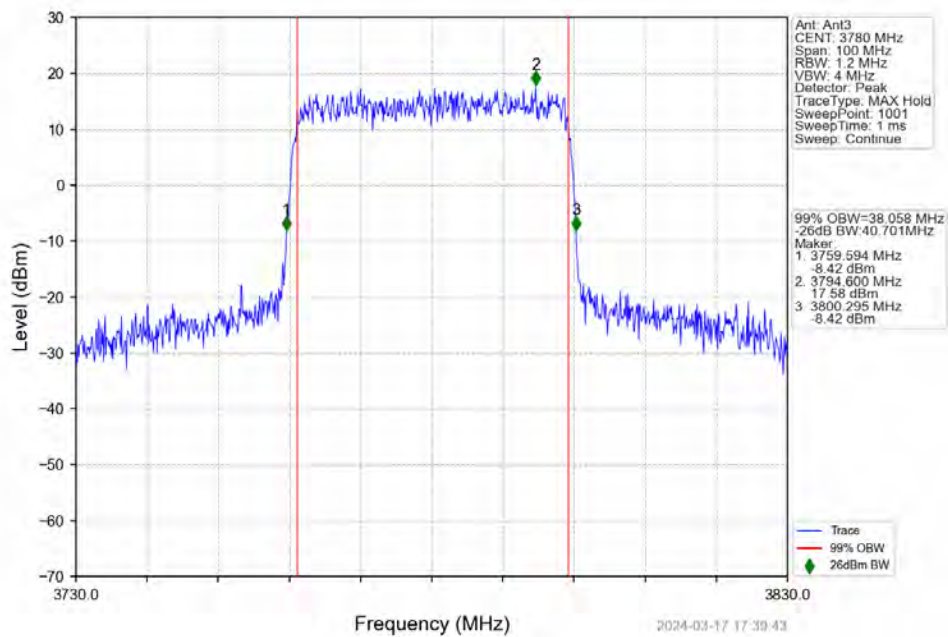
n78a 30kHz SISO NTN 40MHz CP-OFDM QPSK 3720MHz Outer Full



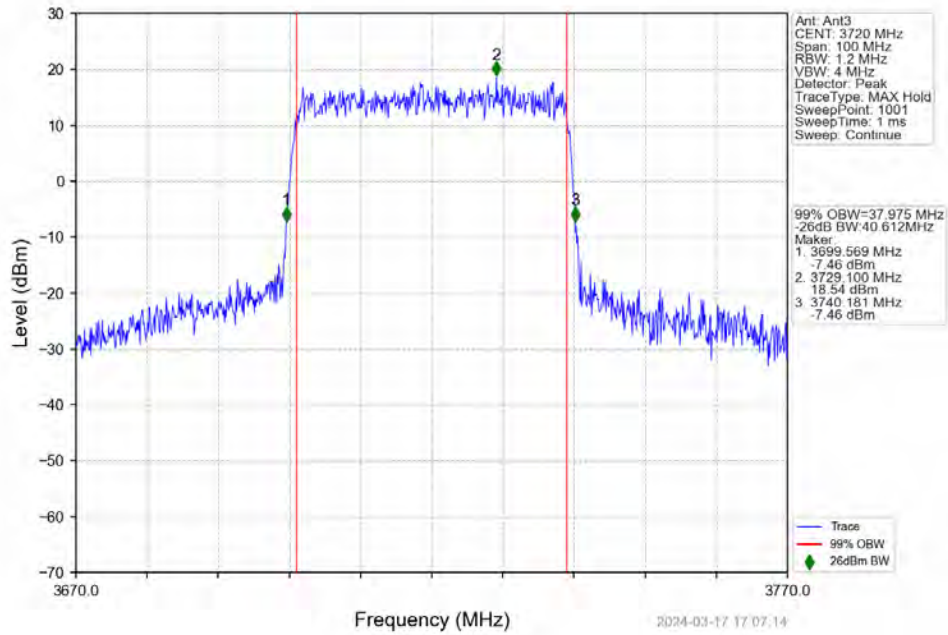
n78a 30kHz SISO NTN 40MHz CP-OFDM QPSK 3750MHz Outer Full



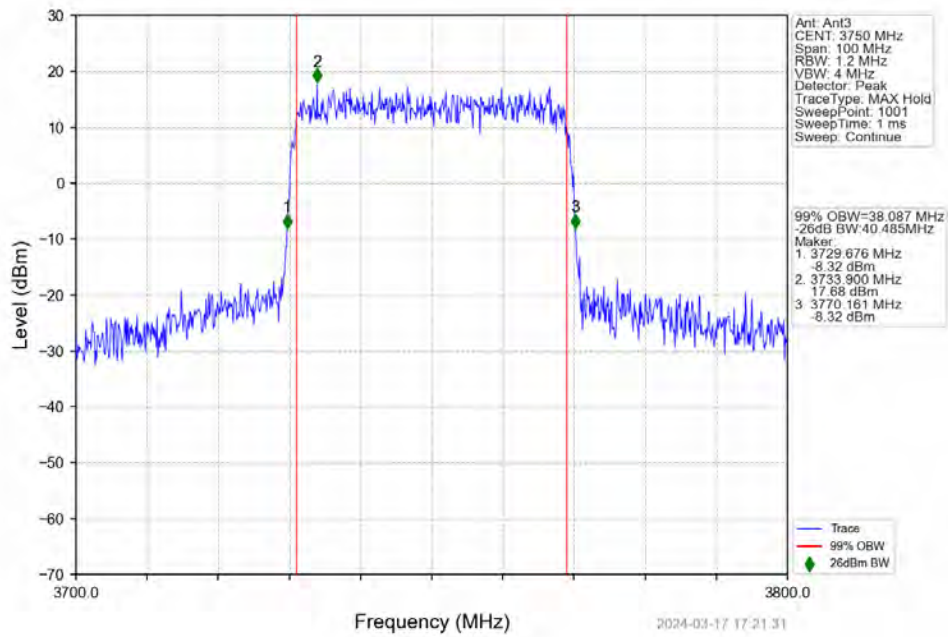
n78a 30kHz SISO NTN 40MHz CP-OFDM QPSK 3780MHz Outer Full



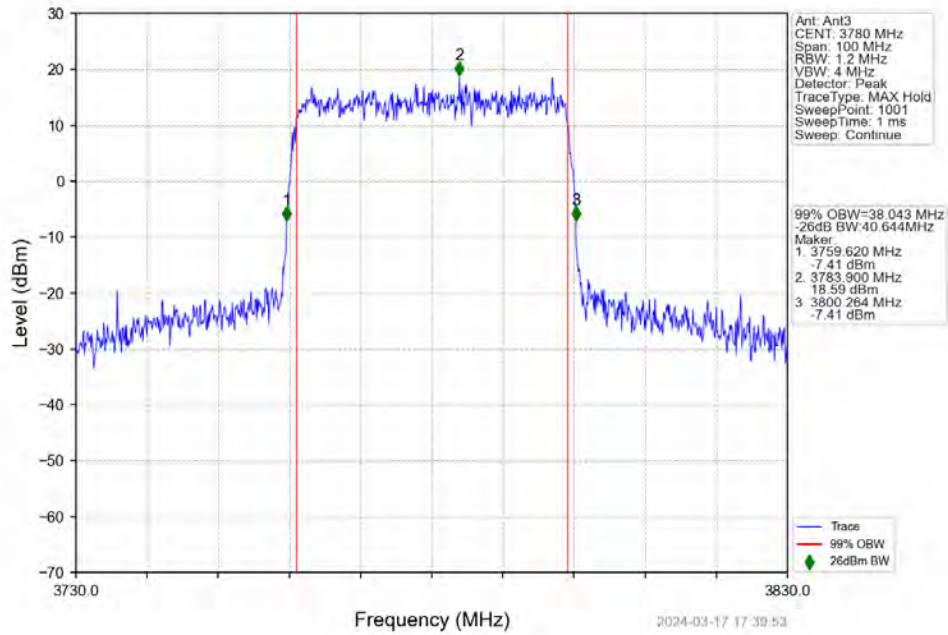
n78a 30kHz SISO NTN 40MHz CP-OFDM 16 QAM 3720MHz Outer Full



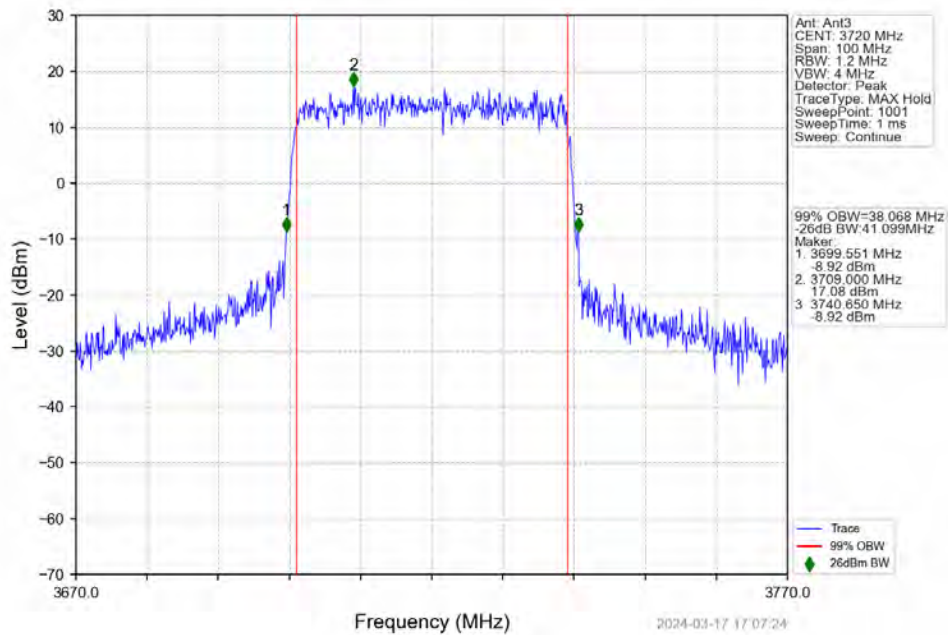
n78a 30kHz SISO NTN 40MHz CP-OFDM 16 QAM 3750MHz Outer Full



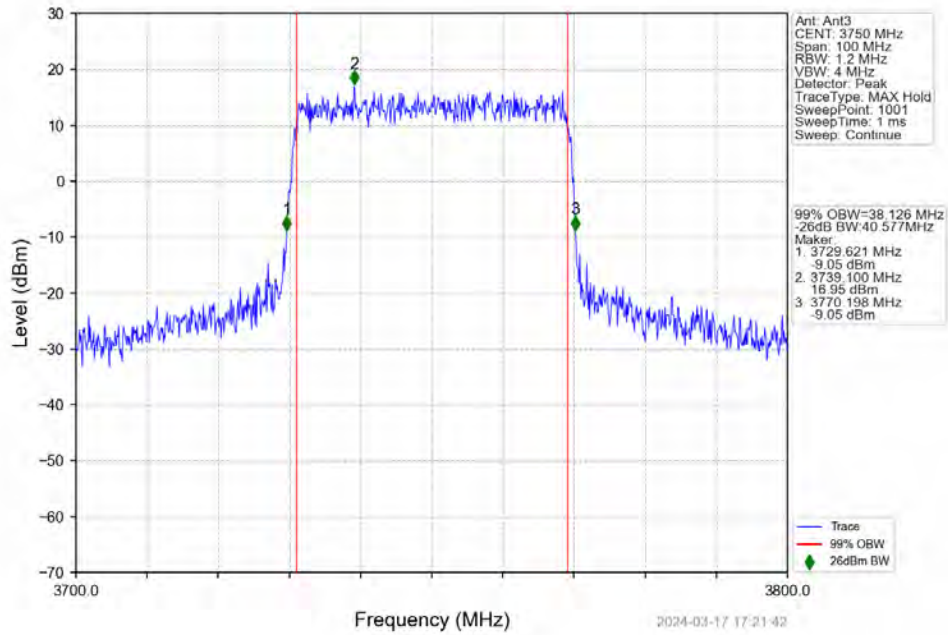
n78a 30kHz SISO NTN 40MHz CP-OFDM 16 QAM 3780MHz Outer Full



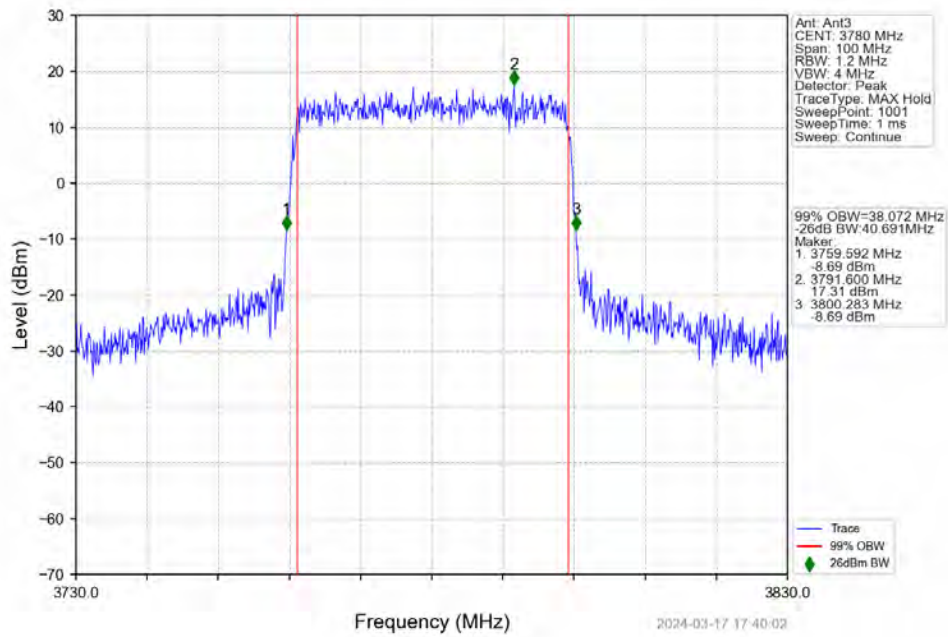
n78a 30kHz SISO NTN 40MHz CP-OFDM 64 QAM 3720MHz Outer Full



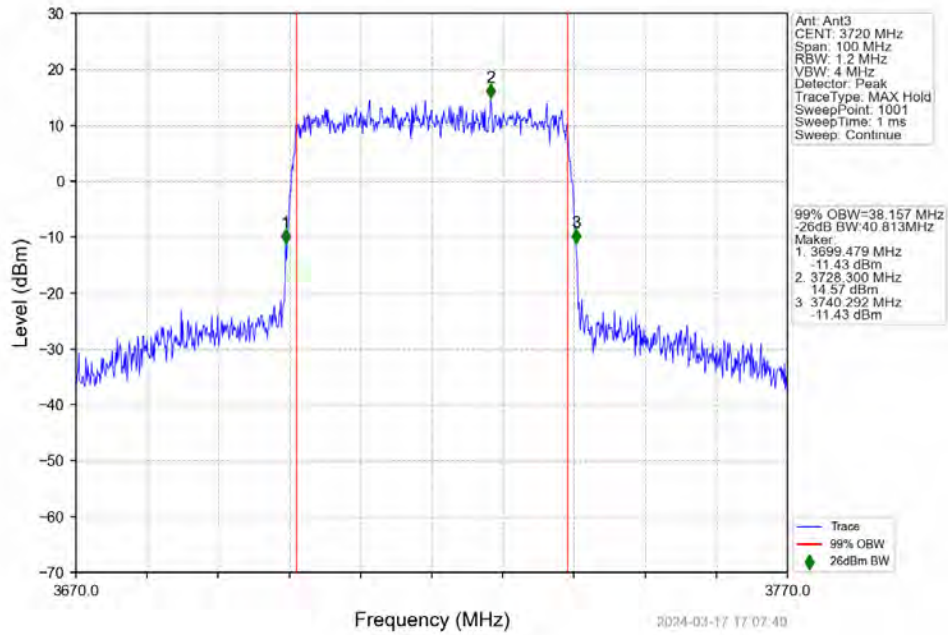
n78a 30kHz SISO NTN 40MHz CP-OFDM 64 QAM 3750MHz Outer Full



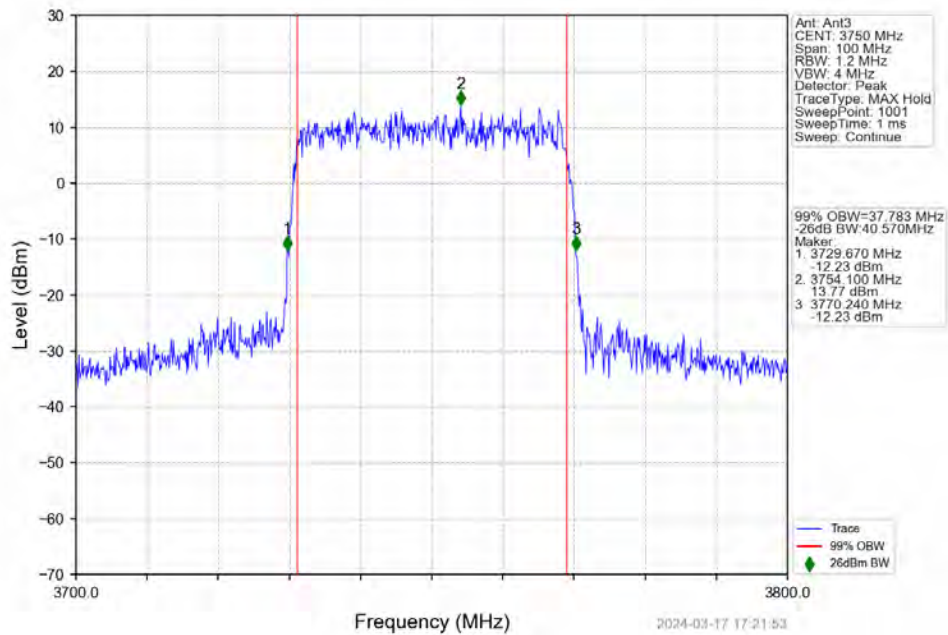
n78a 30kHz SISO NTN 40MHz CP-OFDM 64 QAM 3780MHz Outer Full



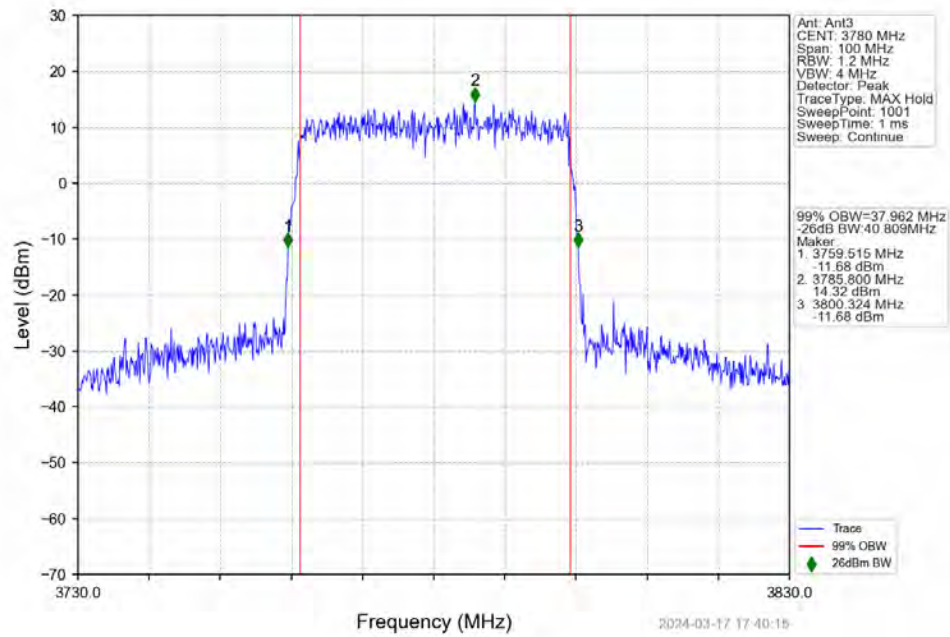
n78a 30kHz SISO NTV 40MHz CP-OFDM 256 QAM 3720MHz Outer Full



n78a 30kHz SISO NTV 40MHz CP-OFDM 256 QAM 3750MHz Outer Full



n78a 30kHz SISO NTN 40MHz CP-OFDM 256 QAM 3780MHz Outer Full

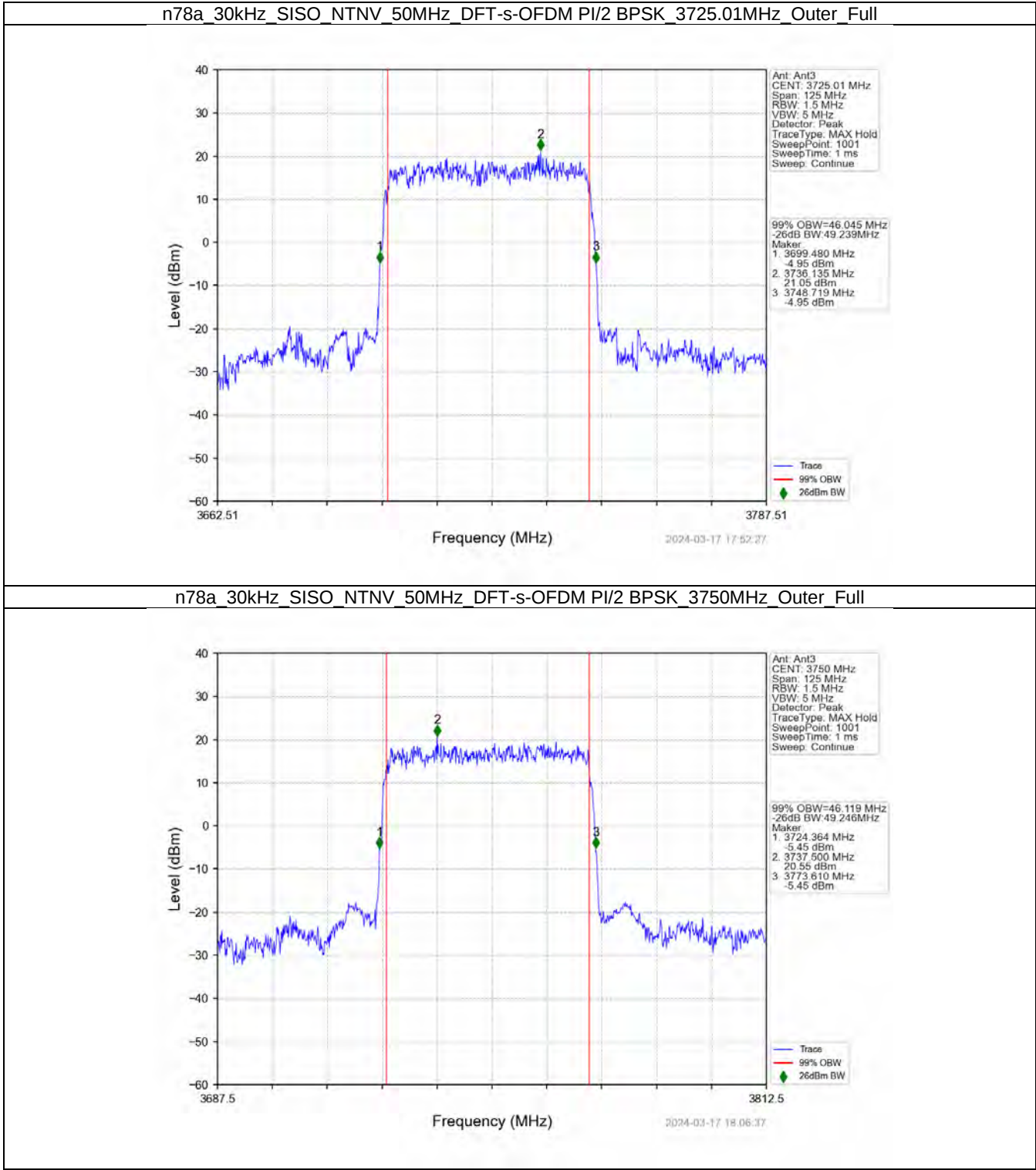


3.4 30k_SISO_50MHz_NTNV

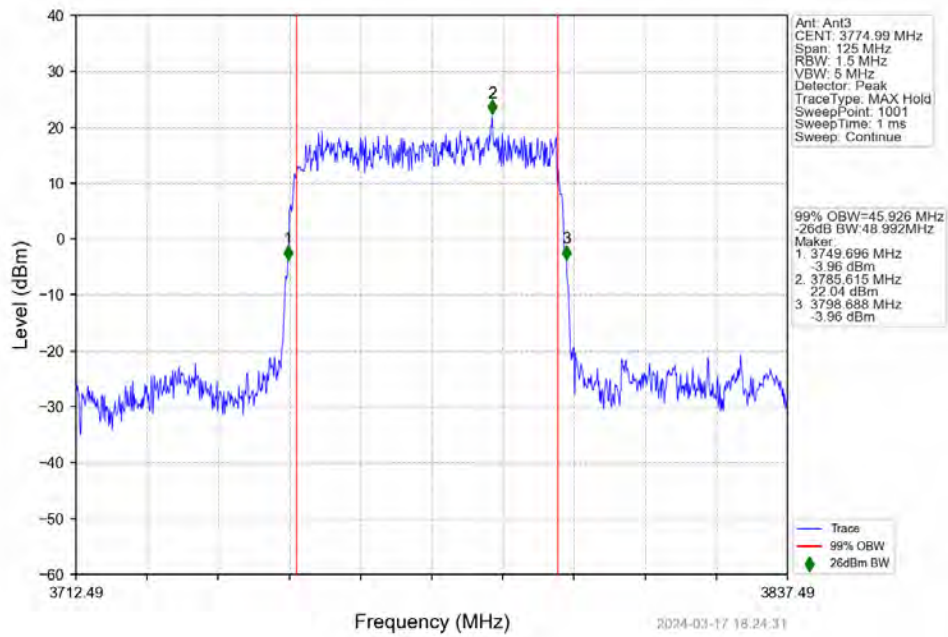
3.4.1 Test Result

5G NR n78a SCS=30kHz SISO 50MHz NTNv						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3725.01	Outer_Full	46.05	49.24	/	Pass
	3750	Outer_Full	46.12	49.25	/	Pass
	3774.99	Outer_Full	45.93	48.99	/	Pass
DFT-s-OFDM QPSK	3725.01	Outer_Full	45.92	49.10	/	Pass
	3750	Outer_Full	46.36	49.09	/	Pass
	3774.99	Outer_Full	46.27	49.14	/	Pass
DFT-s-OFDM 16 QAM	3725.01	Outer_Full	46.01	49.53	/	Pass
	3750	Outer_Full	45.91	48.99	/	Pass
	3774.99	Outer_Full	46.02	49.05	/	Pass
DFT-s-OFDM 64 QAM	3725.01	Outer_Full	46.23	49.09	/	Pass
	3750	Outer_Full	46.09	49.11	/	Pass
	3774.99	Outer_Full	45.97	49.16	/	Pass
DFT-s-OFDM 256 QAM	3725.01	Outer_Full	46.05	49.08	/	Pass
	3750	Outer_Full	45.97	49.07	/	Pass
	3774.99	Outer_Full	45.90	49.09	/	Pass
CP-OFDM QPSK	3725.01	Outer_Full	47.72	50.99	/	Pass
	3750	Outer_Full	47.61	50.90	/	Pass
	3774.99	Outer_Full	47.68	50.99	/	Pass
CP-OFDM 16 QAM	3725.01	Outer_Full	47.96	50.87	/	Pass
	3750	Outer_Full	47.80	50.82	/	Pass
	3774.99	Outer_Full	47.74	50.99	/	Pass
CP-OFDM 64 QAM	3725.01	Outer_Full	47.69	50.72	/	Pass
	3750	Outer_Full	47.95	51.02	/	Pass
	3774.99	Outer_Full	47.89	50.90	/	Pass
CP-OFDM 256 QAM	3725.01	Outer_Full	47.63	51.07	/	Pass
	3750	Outer_Full	47.60	51.13	/	Pass
	3774.99	Outer_Full	47.89	51.02	/	Pass

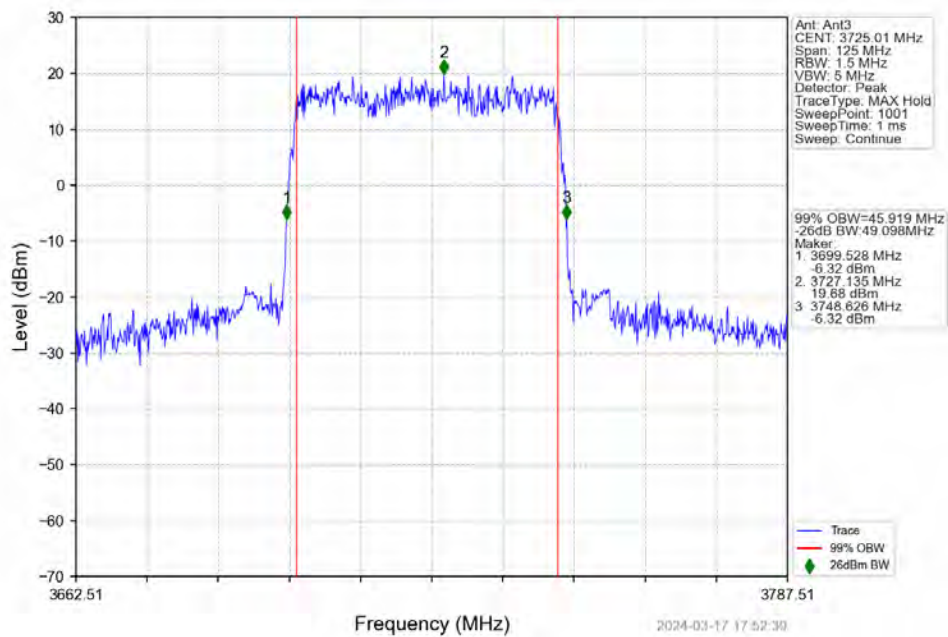
3.4.2 Test Graph



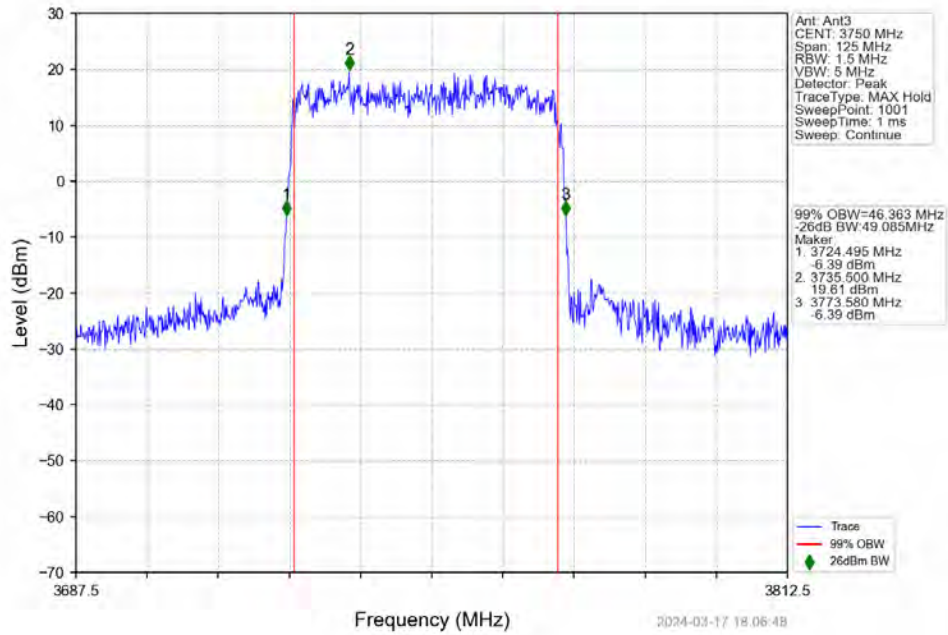
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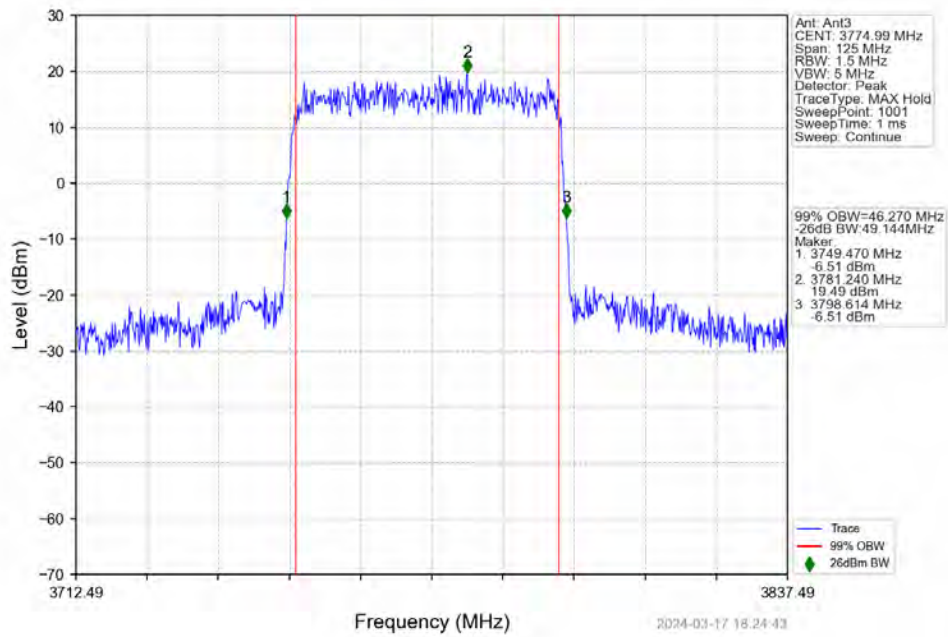
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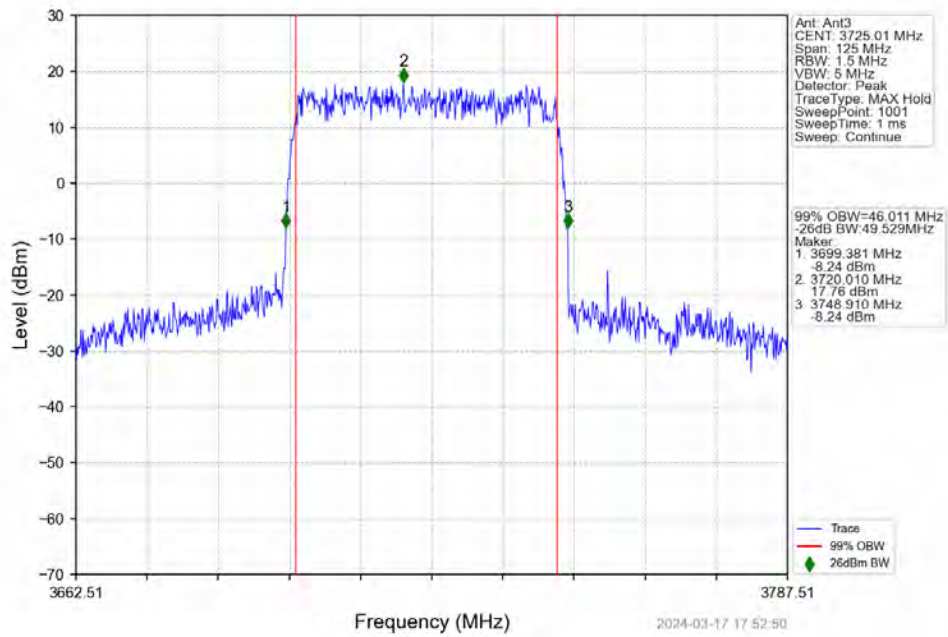
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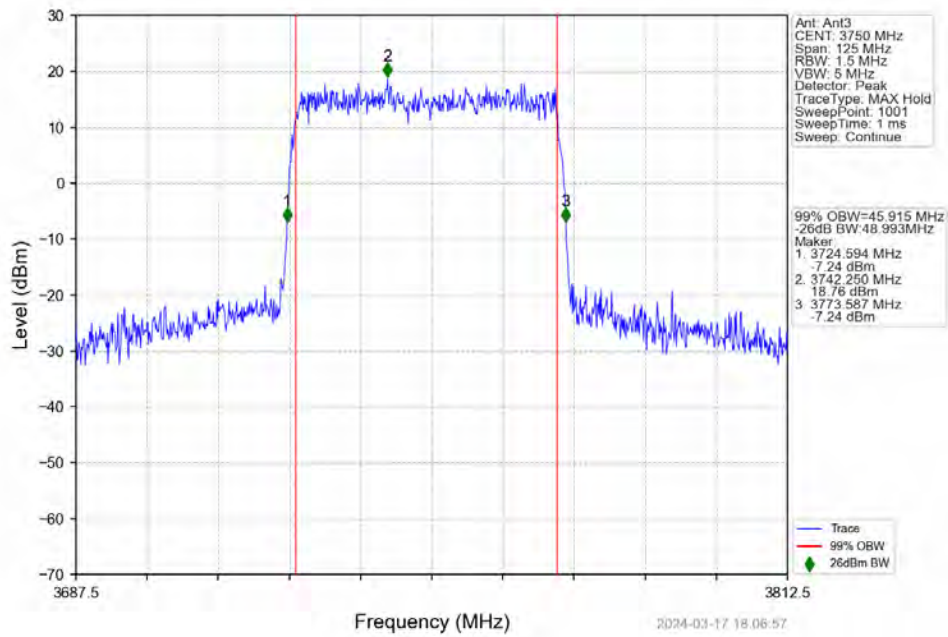
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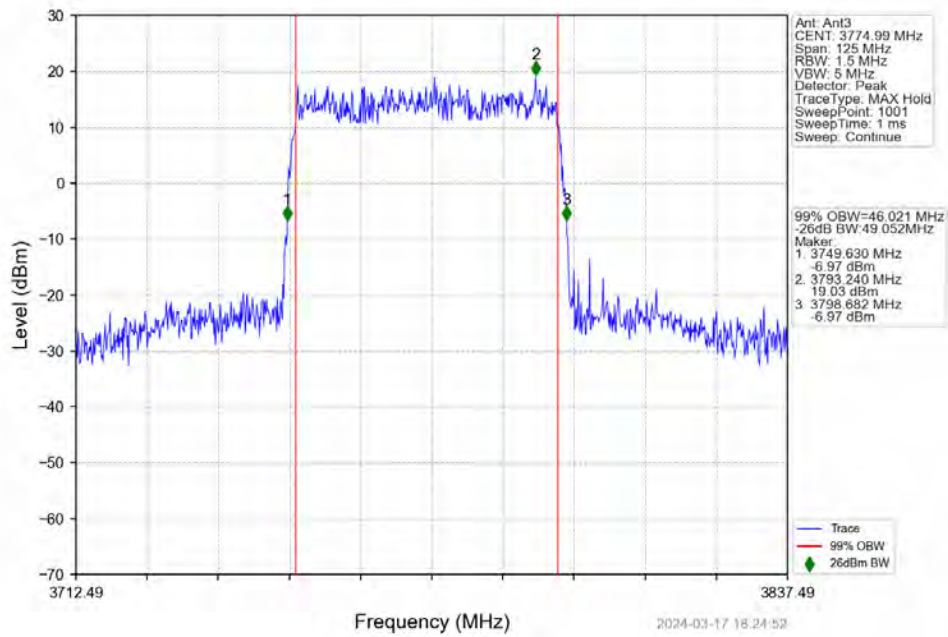
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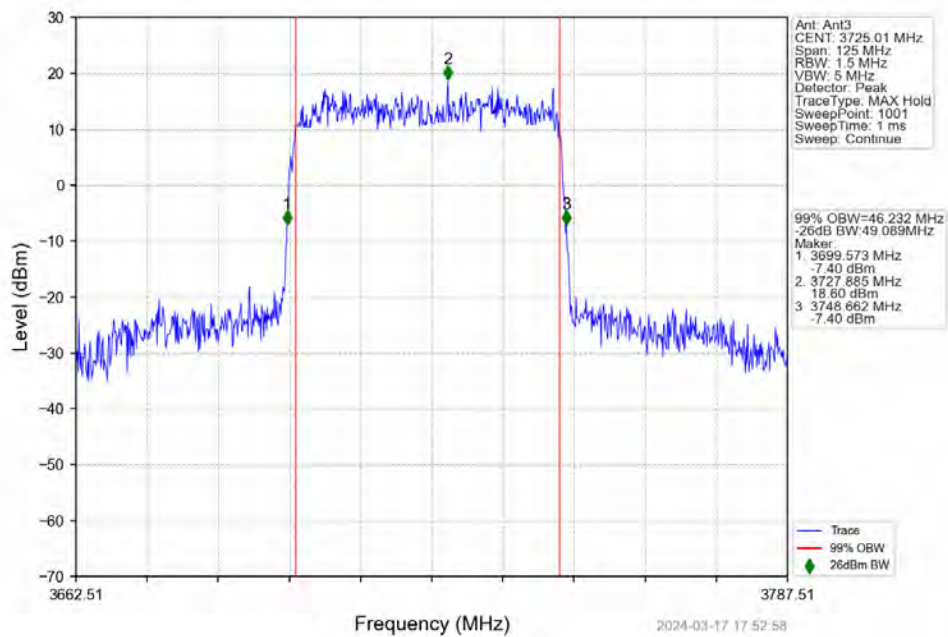
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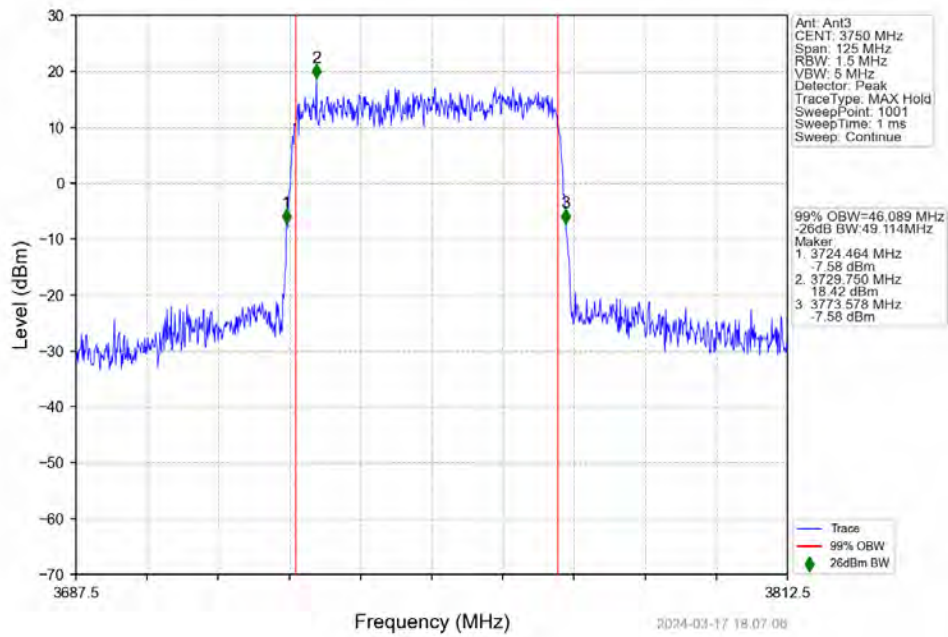
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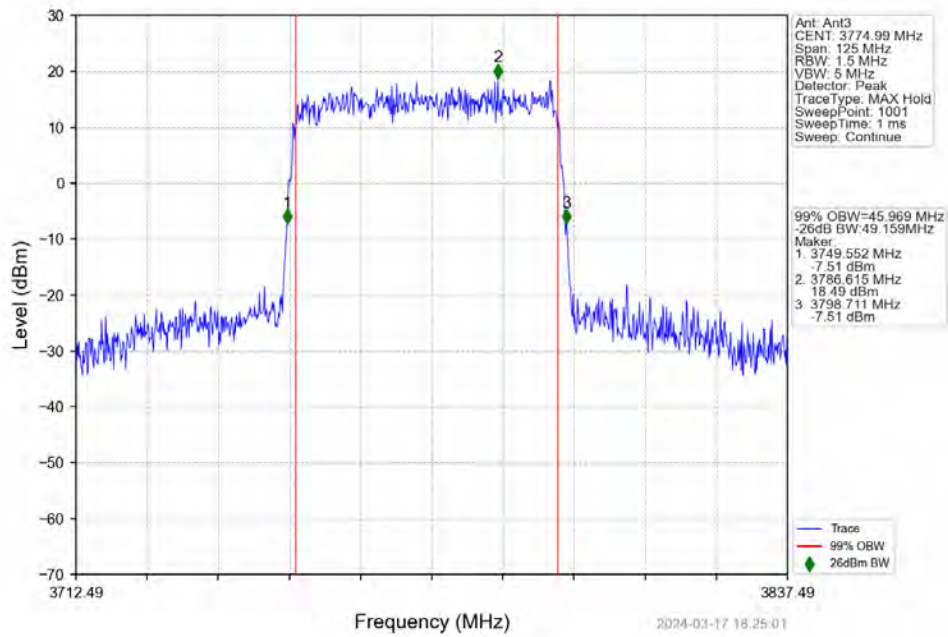
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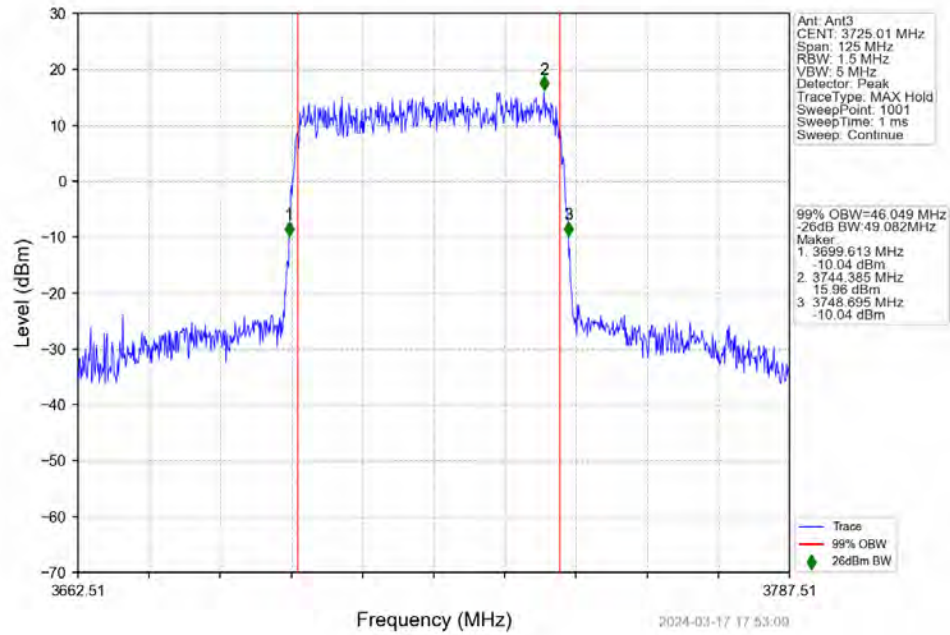
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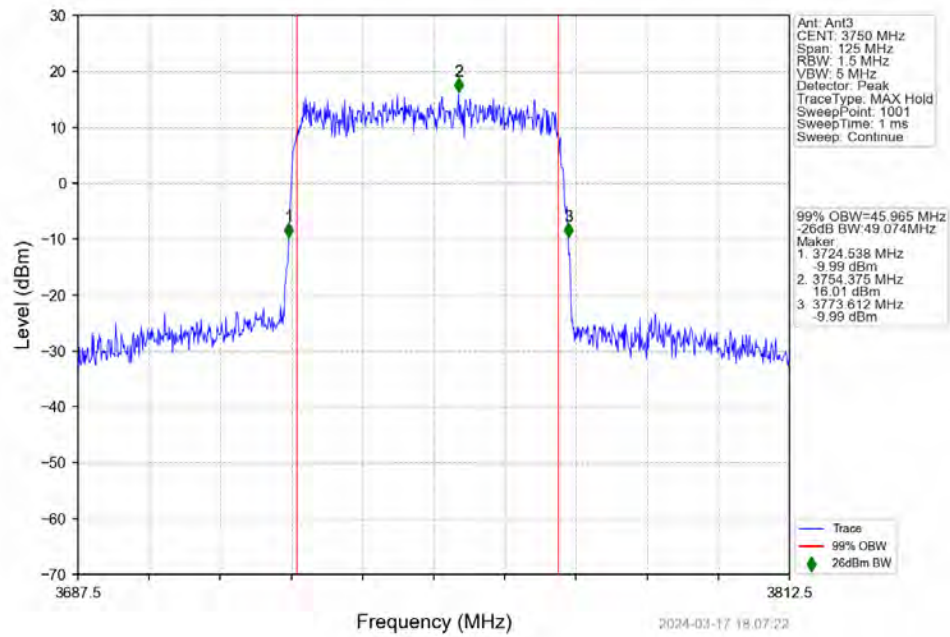
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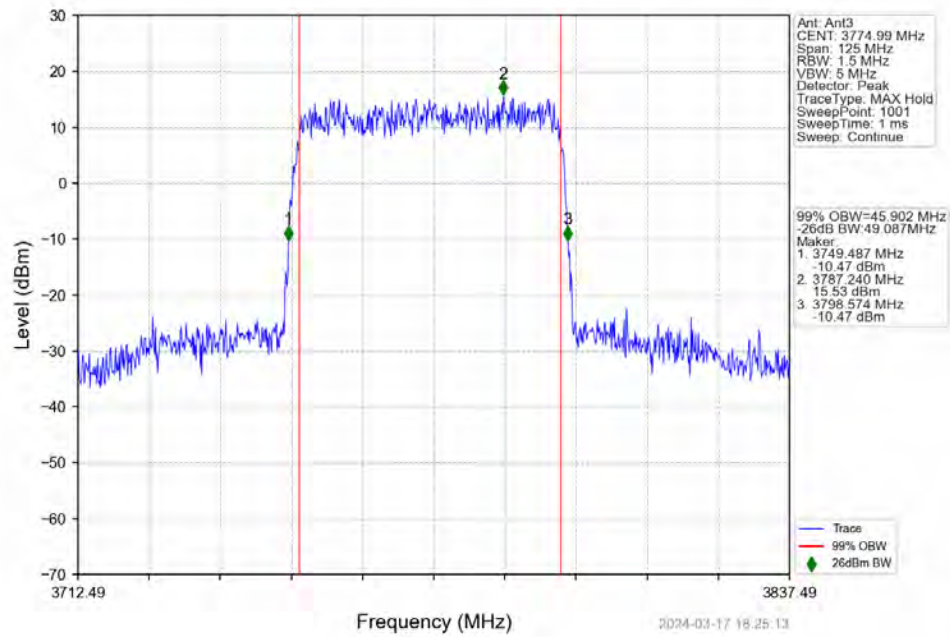
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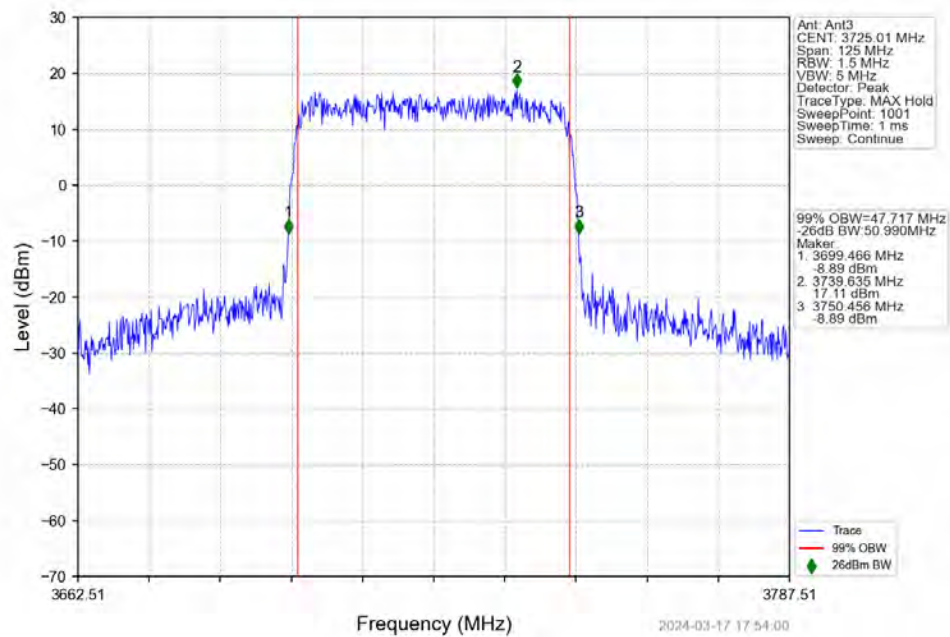
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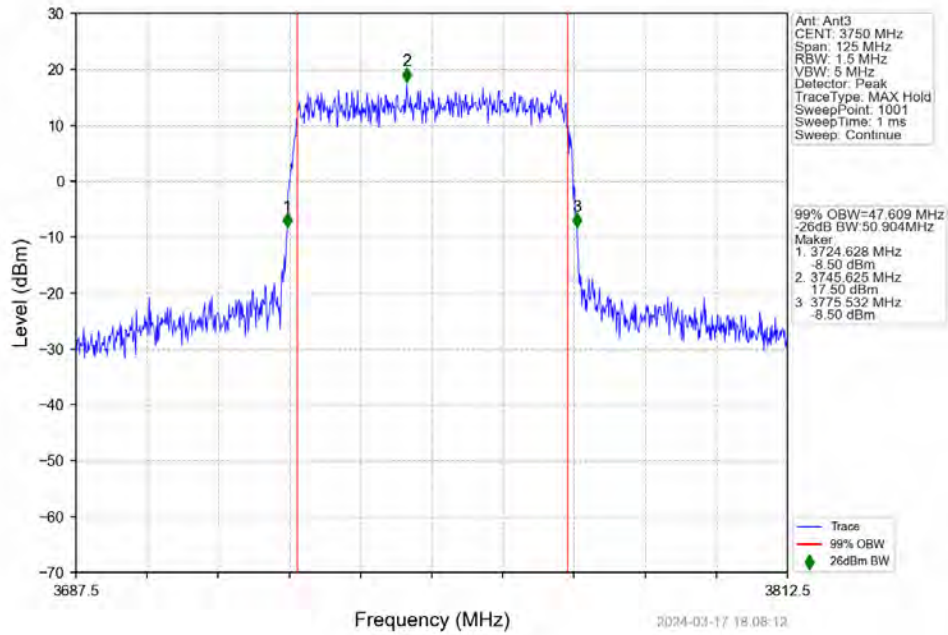
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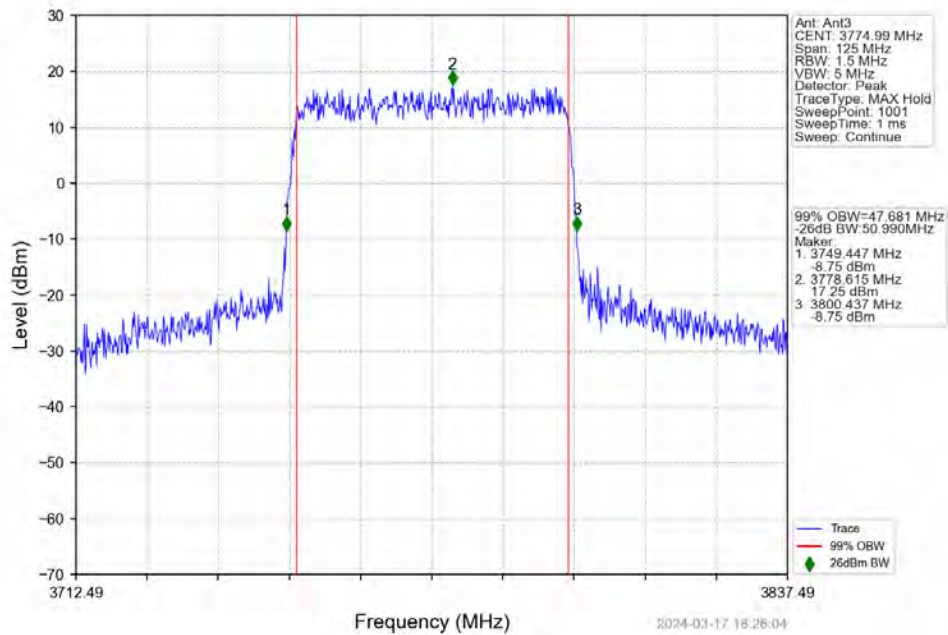
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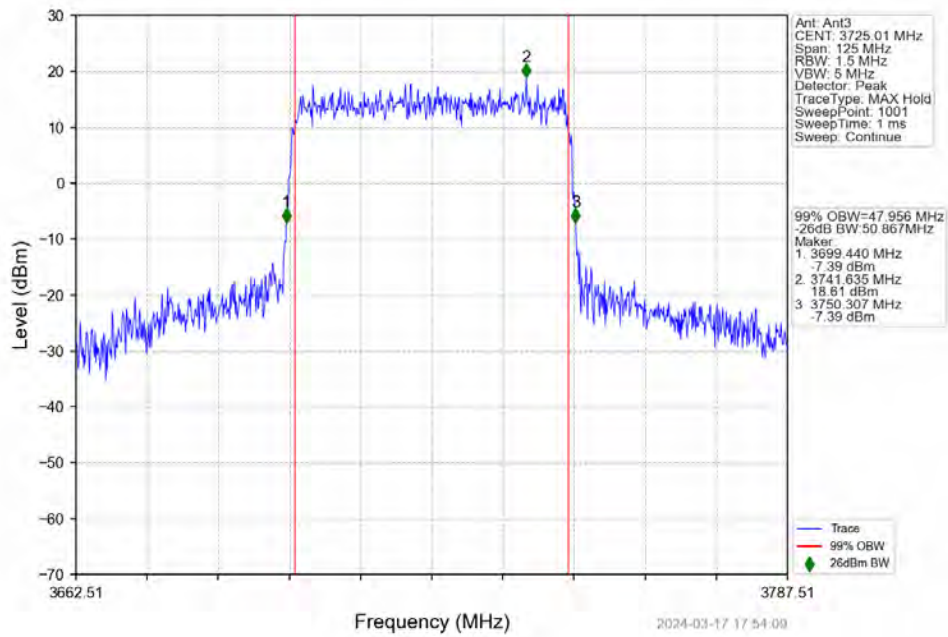
n78a 30kHz SISO NTN 50MHz CP-OFDM QPSK 3750MHz Outer Full



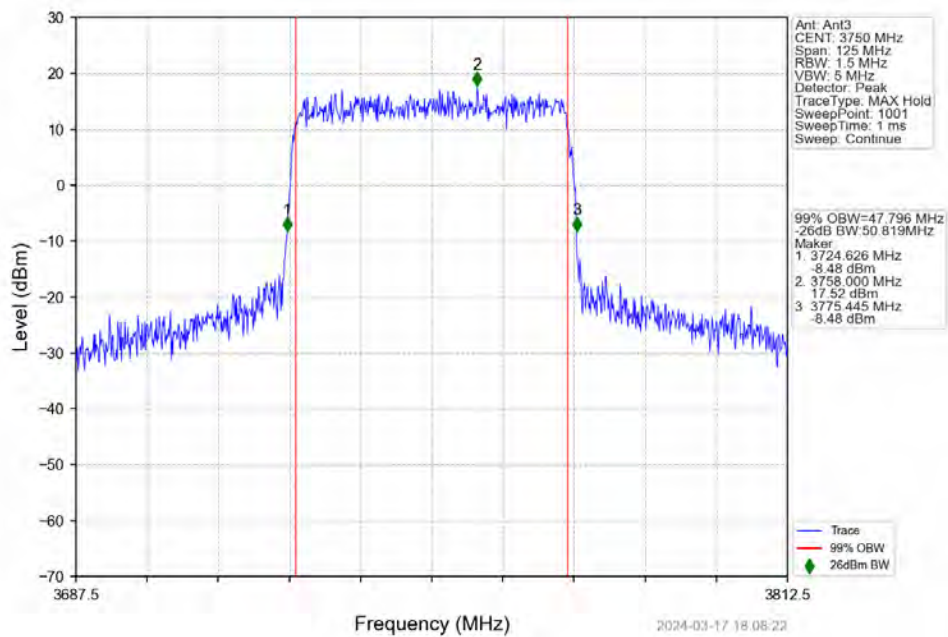
n78a 30kHz SISO NTN 50MHz CP-OFDM QPSK 3774.99MHz Outer Full



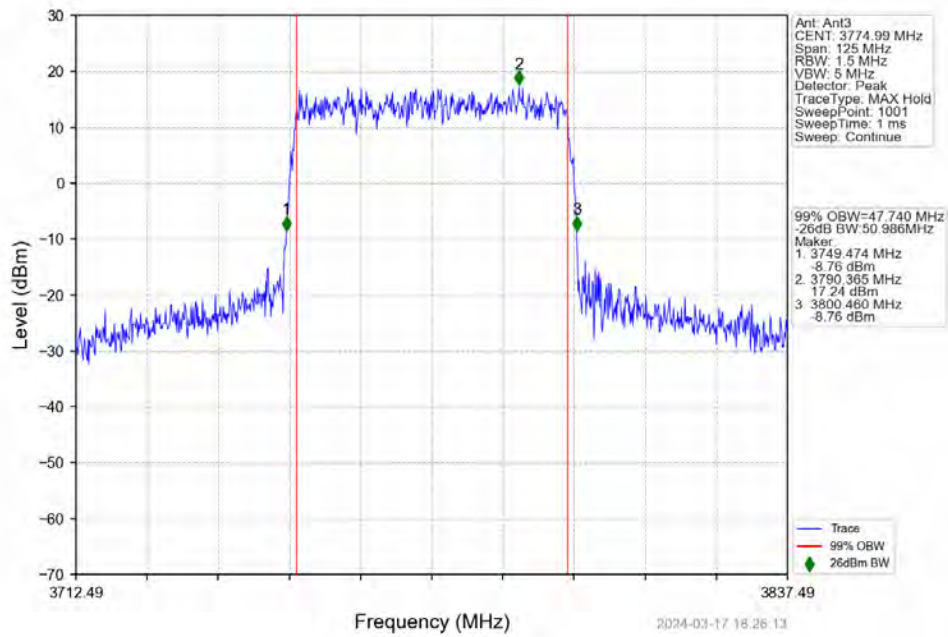
n78a 30kHz SISO NTN 50MHz CP-OFDM 16 QAM 3725.01MHz Outer Full



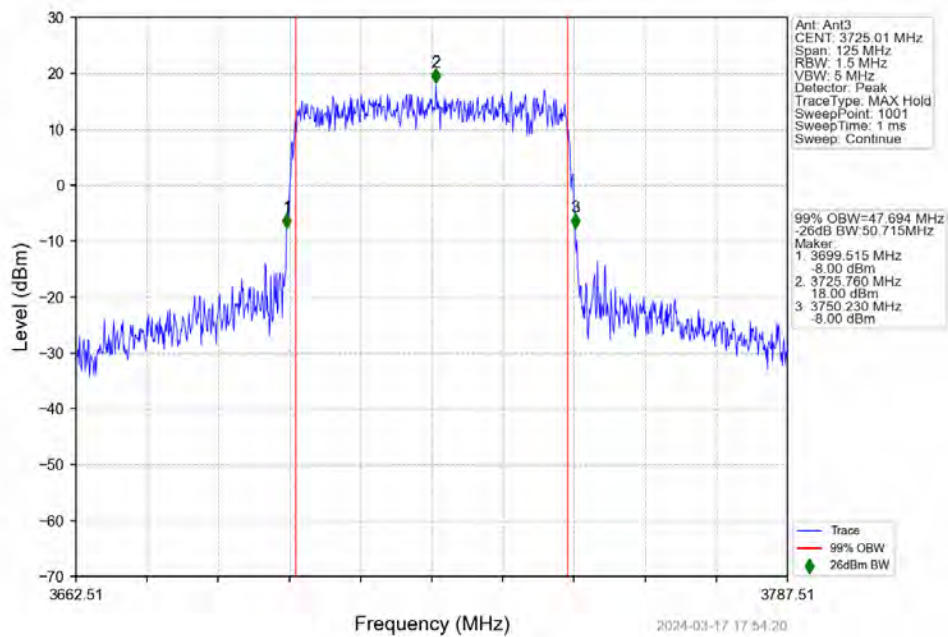
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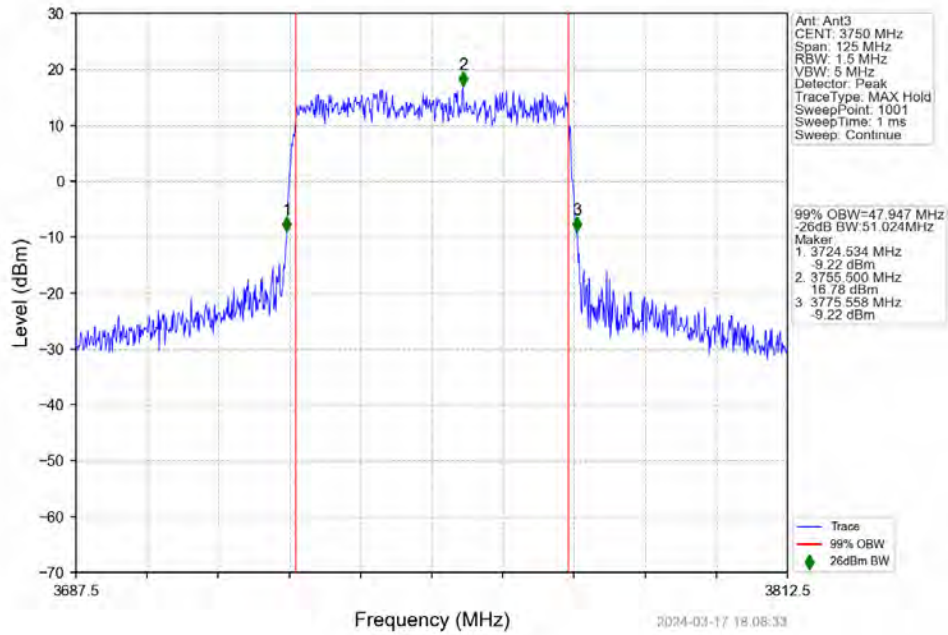
n78a 30kHz SISO NTN 50MHz CP-OFDM 16 QAM 3774.99MHz Outer Full



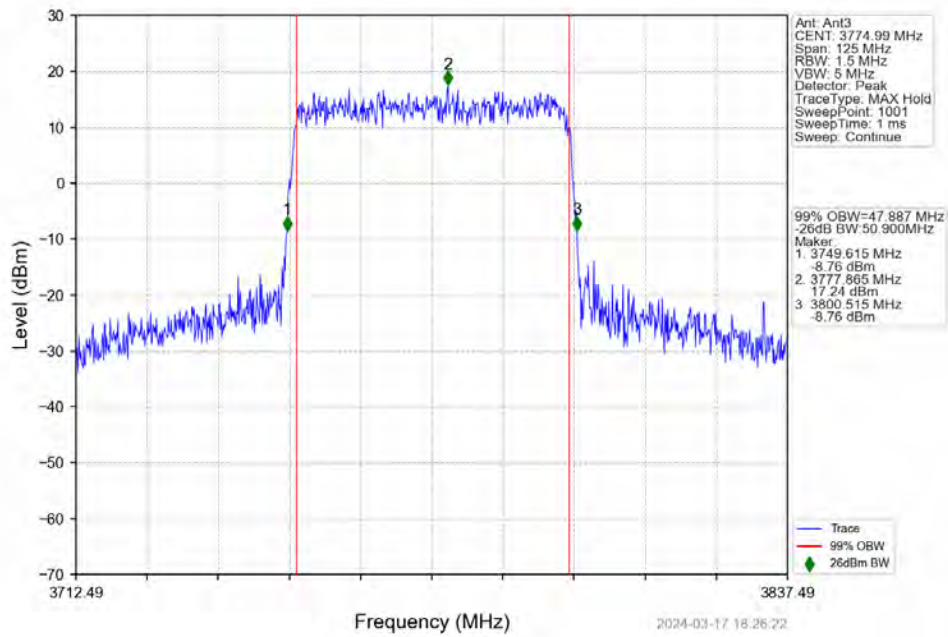
n78a 30kHz SISO NTN 50MHz CP-OFDM 64 QAM 3725.01MHz Outer Full



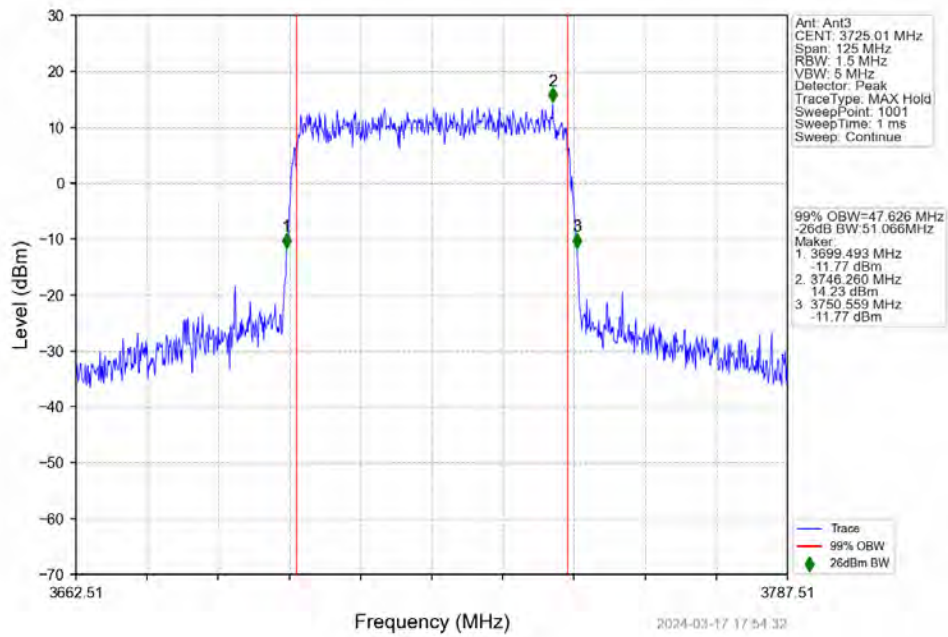
n78a 30kHz SISO NTN 50MHz CP-OFDM 64 QAM 3750MHz Outer Full



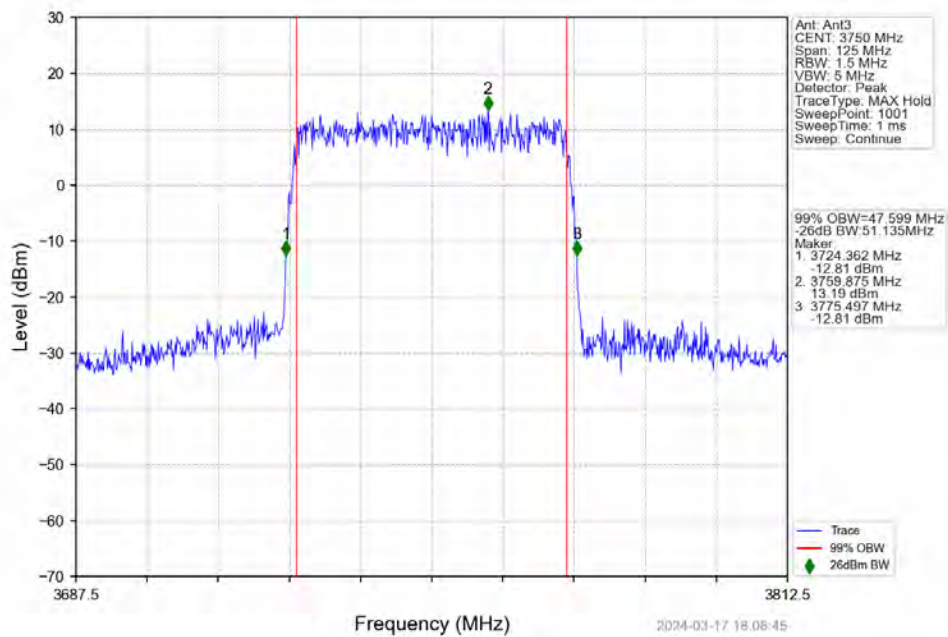
n78a 30kHz SISO NTN 50MHz CP-OFDM 64 QAM 3774.99MHz Outer Full



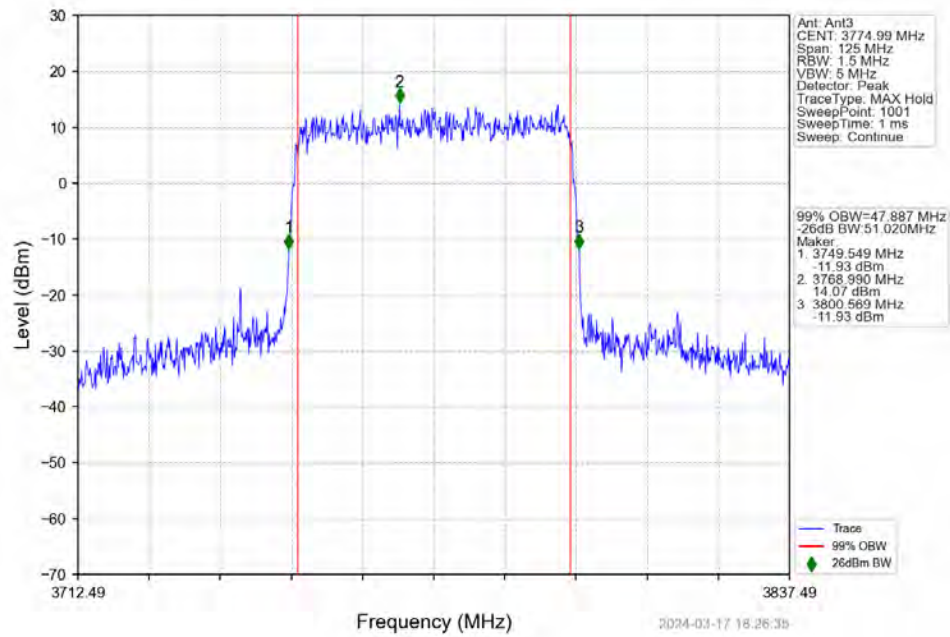
n78a 30kHz SISO NTN 50MHz CP-OFDM 256 QAM 3725.01MHz Outer Full



n78a 30kHz SISO NTN 50MHz CP-OFDM 256 QAM 3750MHz Outer Full



n78a 30kHz SISO NTN 50MHz CP-OFDM 256 QAM 3774.99MHz Outer Full

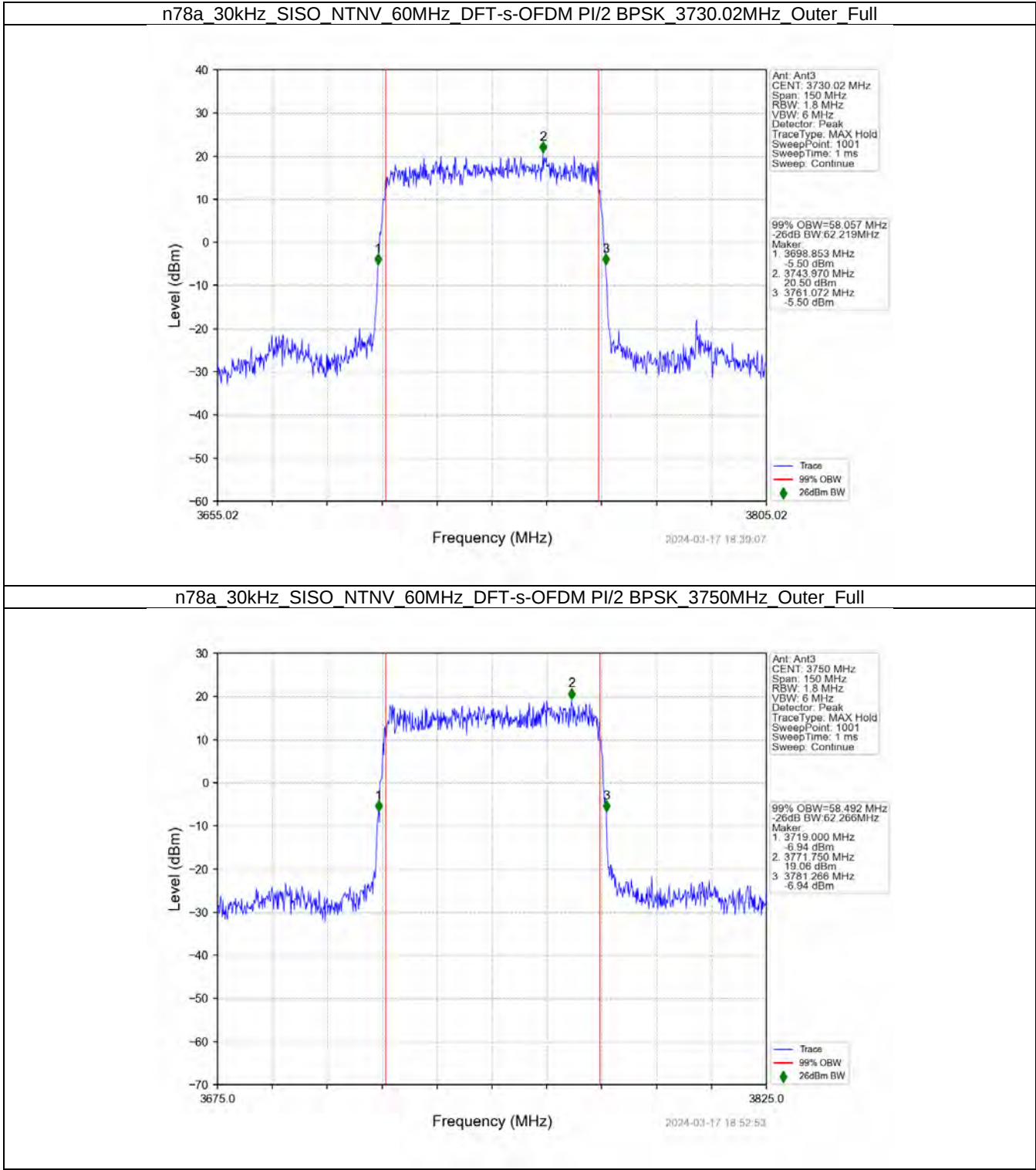


3.5 30k_SISO_60MHz_NTNV

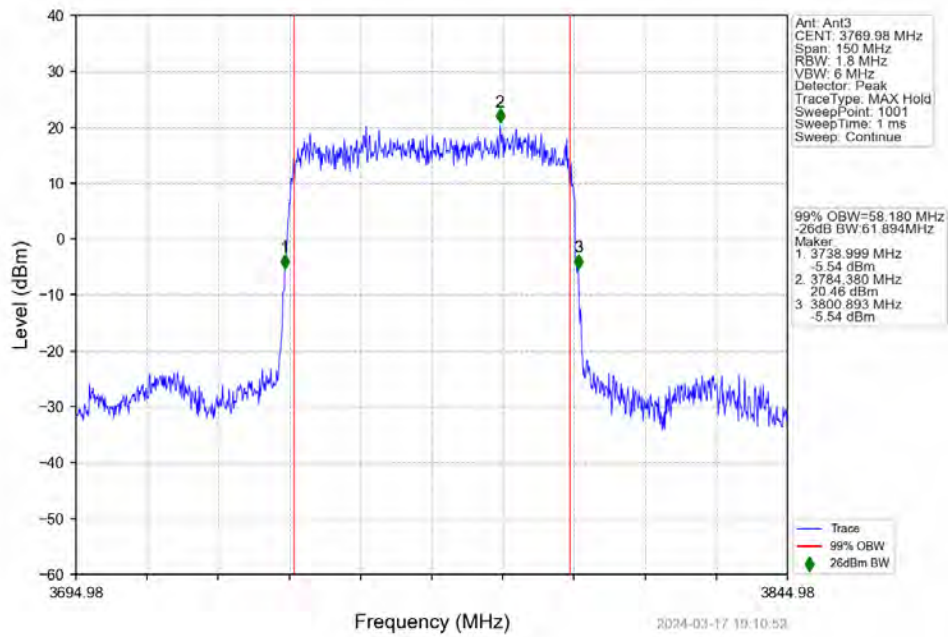
3.5.1 Test Result

5G NR n78a SCS=30kHz SISO 60MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3730.02	Outer_Full	58.06	62.22	/	Pass
	3750	Outer_Full	58.49	62.27	/	Pass
	3769.98	Outer_Full	58.18	61.89	/	Pass
DFT-s-OFDM QPSK	3730.02	Outer_Full	58.19	62.11	/	Pass
	3750	Outer_Full	58.27	61.90	/	Pass
	3769.98	Outer_Full	58.56	62.21	/	Pass
DFT-s-OFDM 16 QAM	3730.02	Outer_Full	58.22	62.09	/	Pass
	3750	Outer_Full	58.11	62.23	/	Pass
	3769.98	Outer_Full	58.50	62.17	/	Pass
DFT-s-OFDM 64 QAM	3730.02	Outer_Full	58.34	62.02	/	Pass
	3750	Outer_Full	58.23	61.96	/	Pass
	3769.98	Outer_Full	58.16	62.07	/	Pass
DFT-s-OFDM 256 QAM	3730.02	Outer_Full	58.16	62.24	/	Pass
	3750	Outer_Full	58.08	61.94	/	Pass
	3769.98	Outer_Full	58.17	62.03	/	Pass
CP-OFDM QPSK	3730.02	Outer_Full	58.24	61.97	/	Pass
	3750	Outer_Full	58.44	62.02	/	Pass
	3769.98	Outer_Full	59.11	61.94	/	Pass
CP-OFDM 16 QAM	3730.02	Outer_Full	58.35	61.85	/	Pass
	3750	Outer_Full	58.21	62.24	/	Pass
	3769.98	Outer_Full	58.27	61.96	/	Pass
CP-OFDM 64 QAM	3730.02	Outer_Full	58.44	61.85	/	Pass
	3750	Outer_Full	58.41	62.09	/	Pass
	3769.98	Outer_Full	58.00	62.10	/	Pass
CP-OFDM 256 QAM	3730.02	Outer_Full	58.12	61.77	/	Pass
	3750	Outer_Full	58.36	61.92	/	Pass
	3769.98	Outer_Full	58.29	61.87	/	Pass

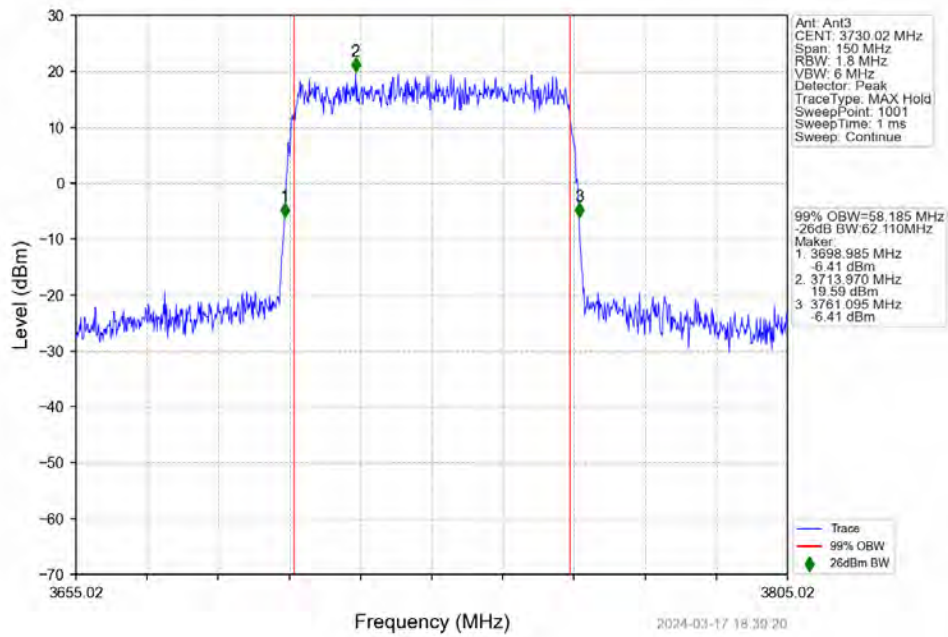
3.5.2 Test Graph



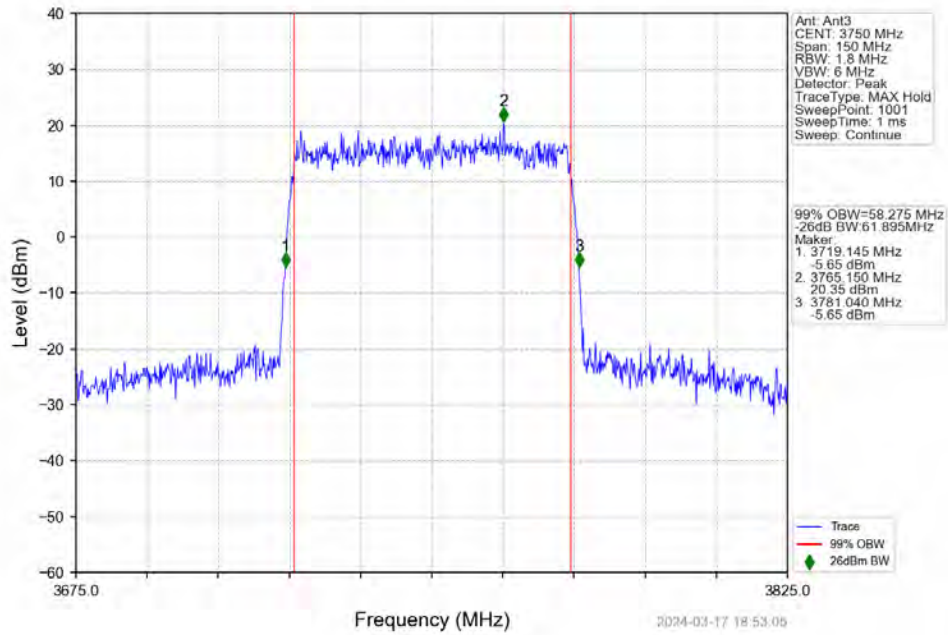
n78a 30kHz SISO NTN 60MHz DFT-s-OFDM PI/2 BPSK 3769.98MHz Outer Full



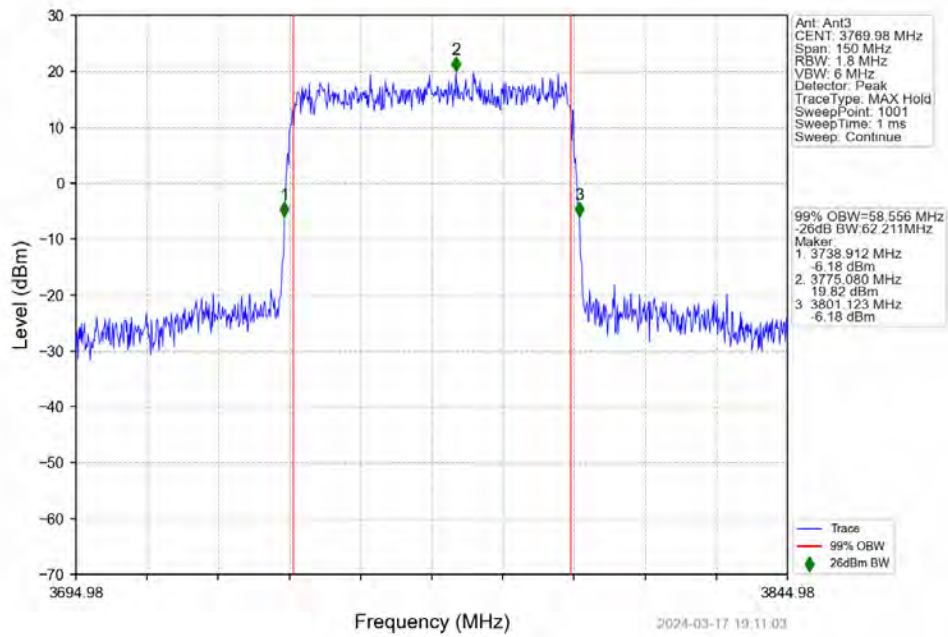
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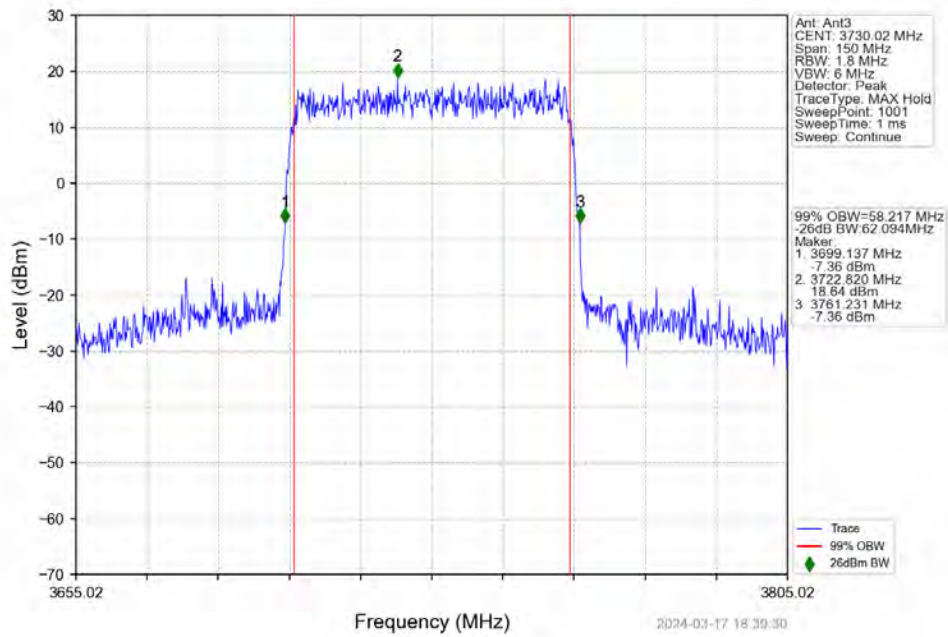
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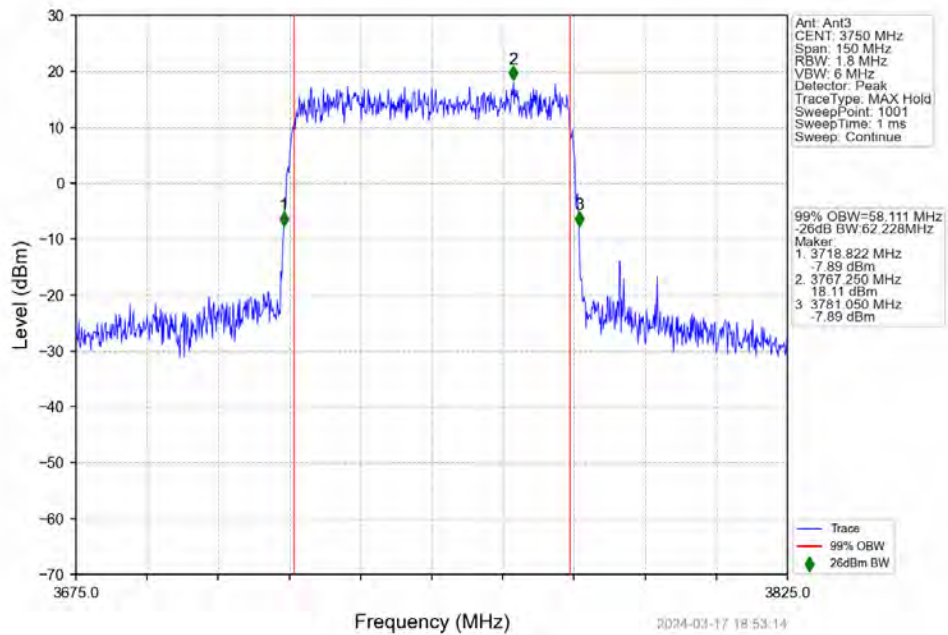
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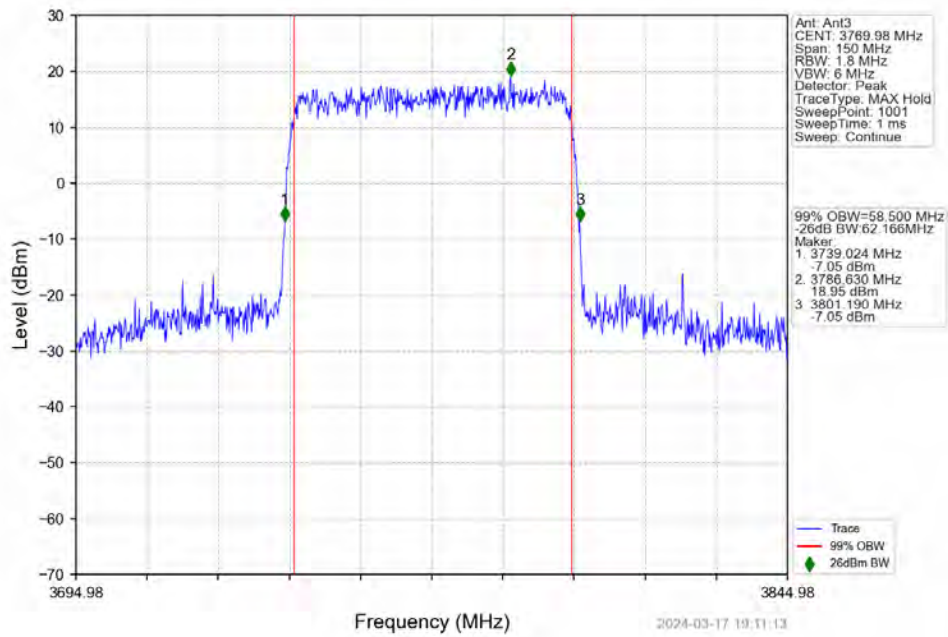
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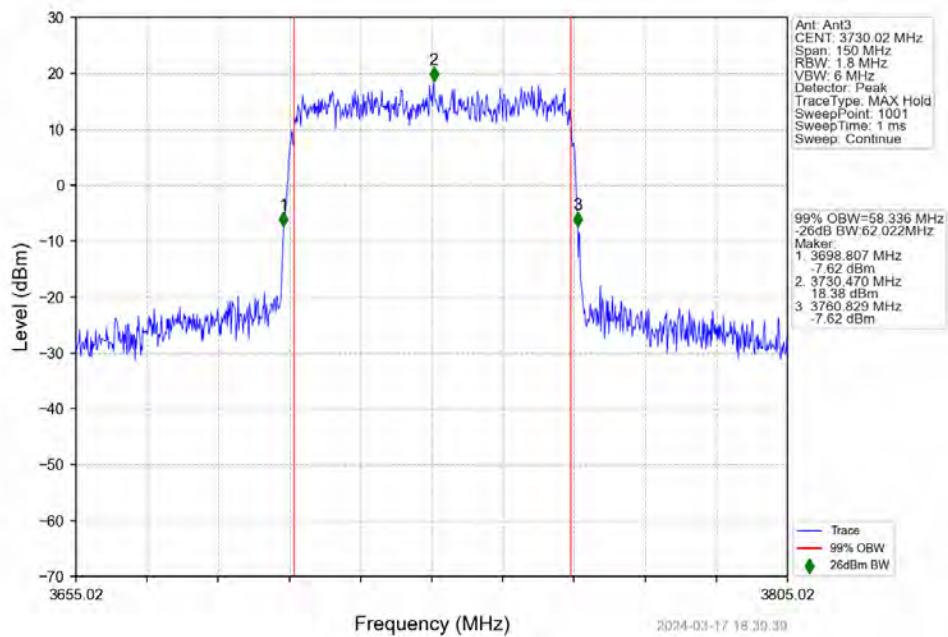
n78a 30kHz SISO NTN 60MHz DFT-s-OFDM 16 QAM 3750MHz Outer Full



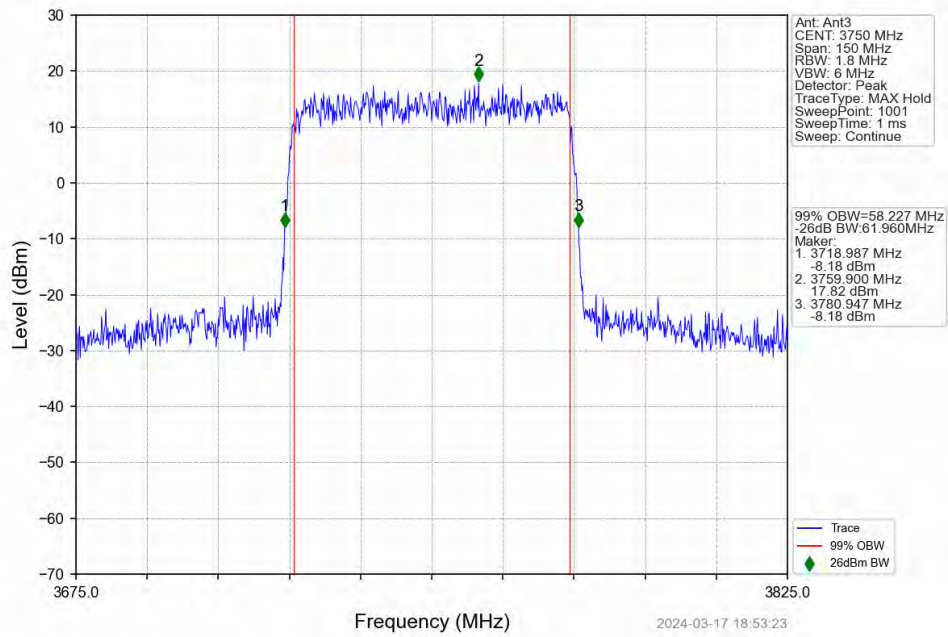
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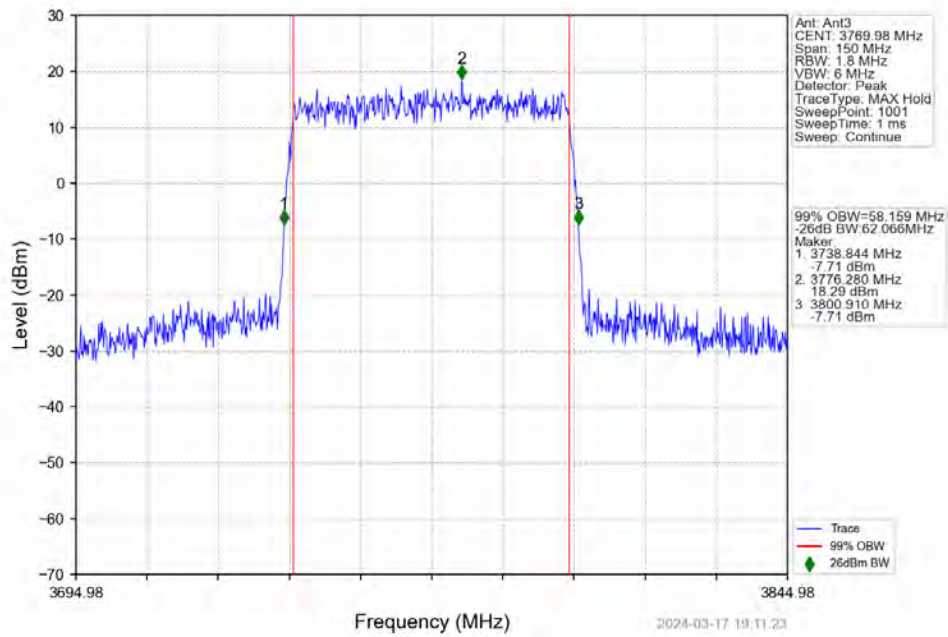
n78a 30kHz SISO NTN 60MHz DFT-s-OFDM 64 QAM 3730.02MHz Outer Full



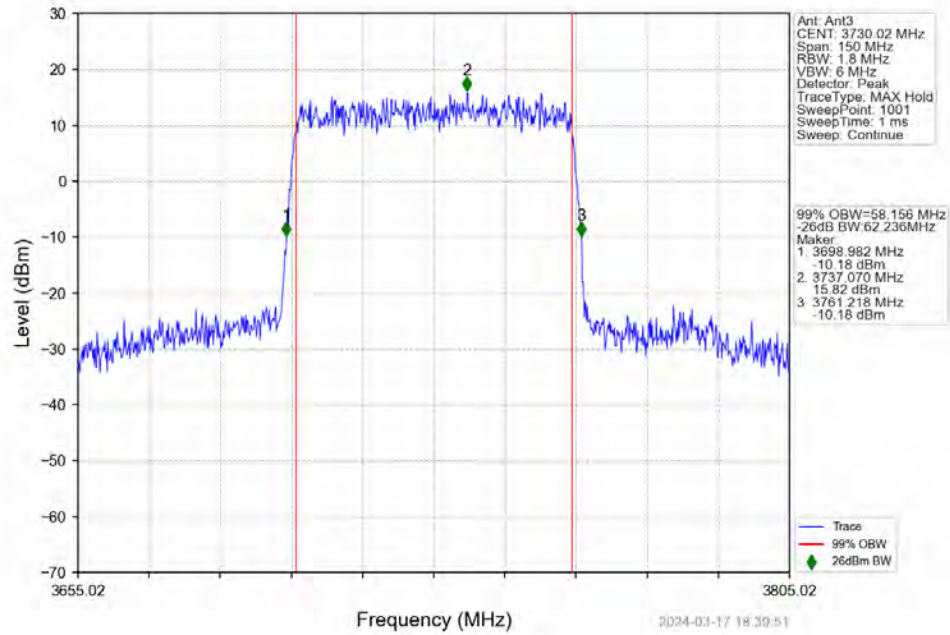
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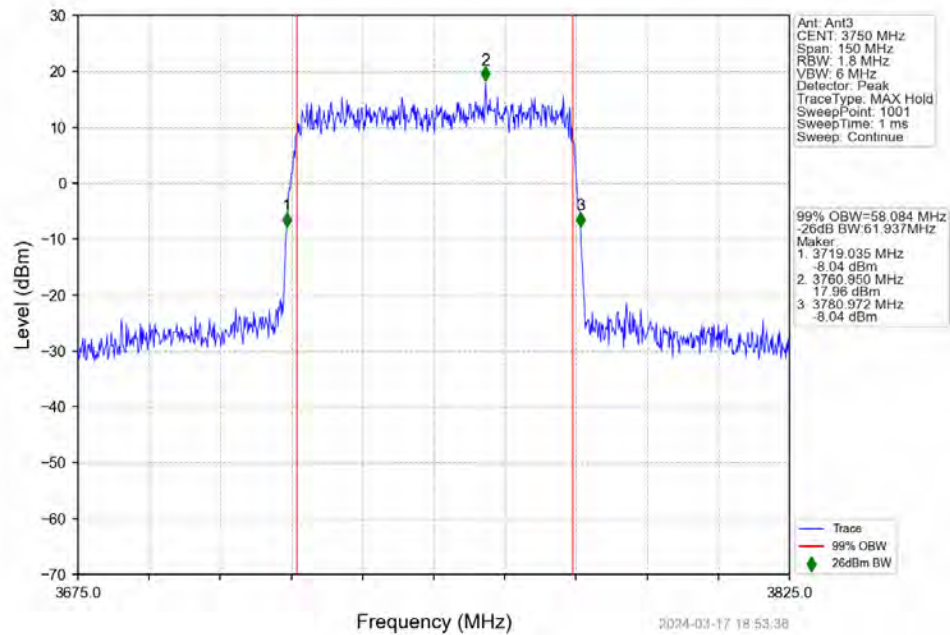
n78a 30kHz SISO NTN 60MHz DFT-s-OFDM 64 QAM 3769.98MHz Outer Full



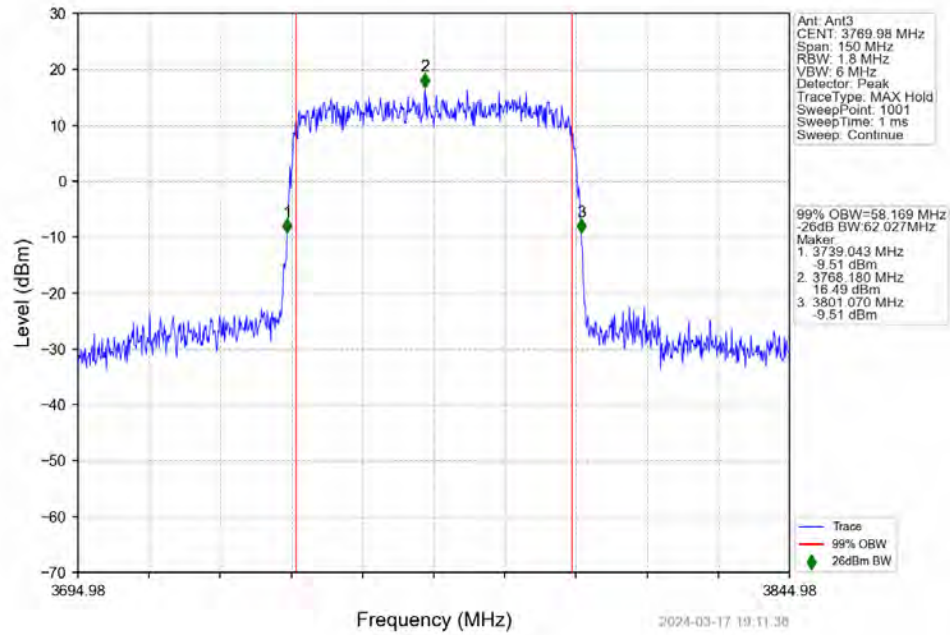
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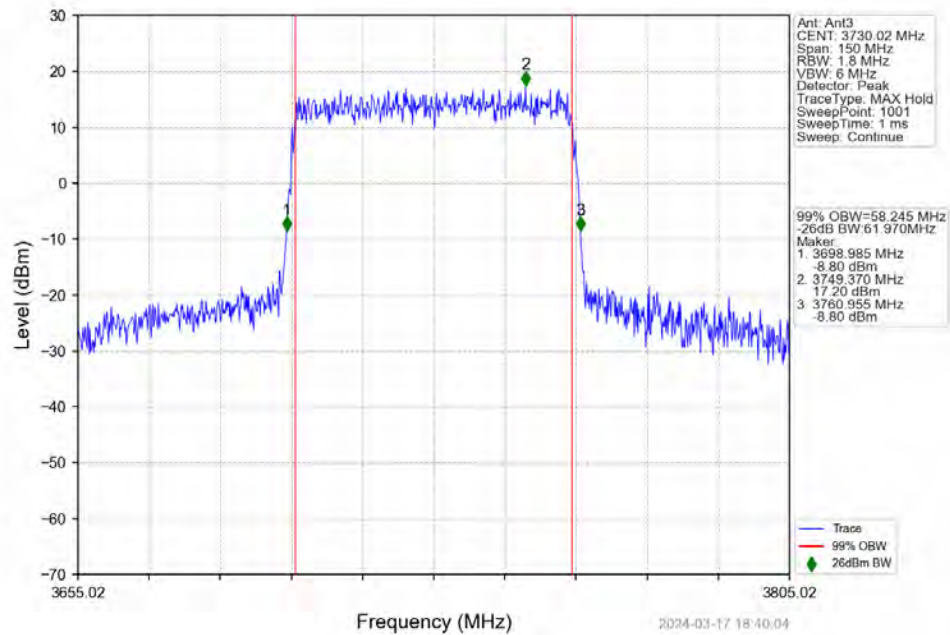
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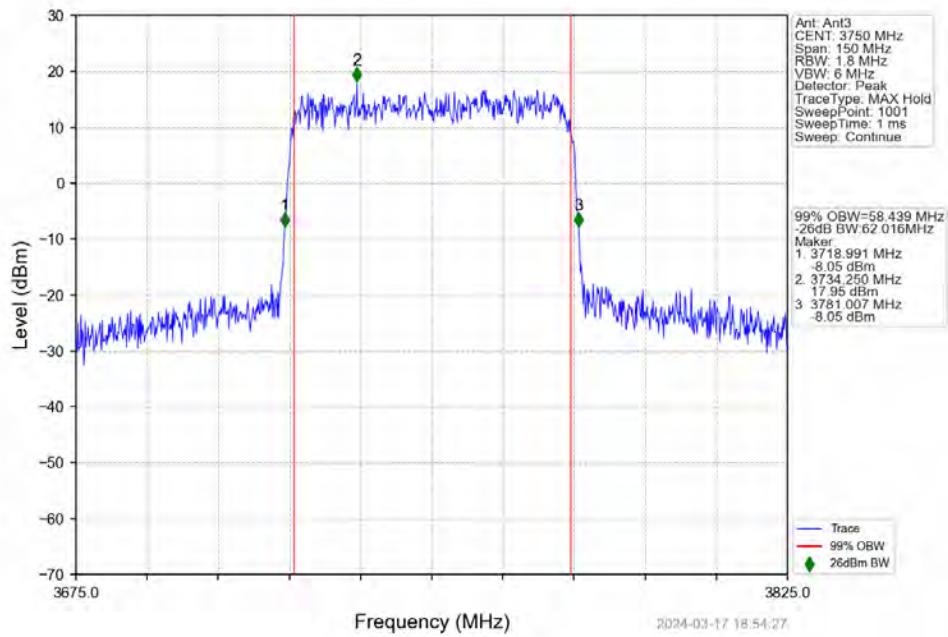
n78a 30kHz SISO NTN 60MHz DFT-s-OFDM 256 QAM 3769.98MHz Outer Full



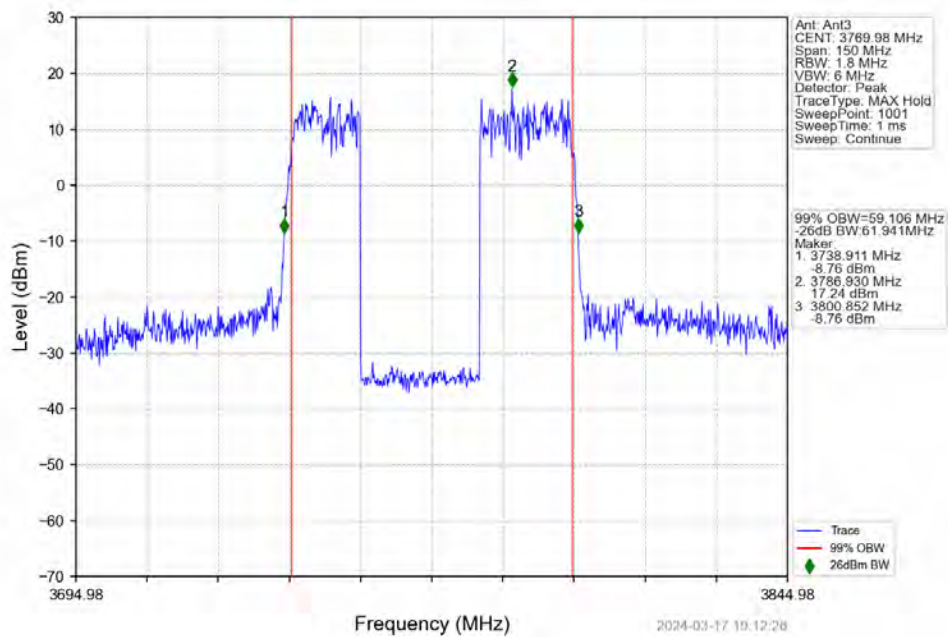
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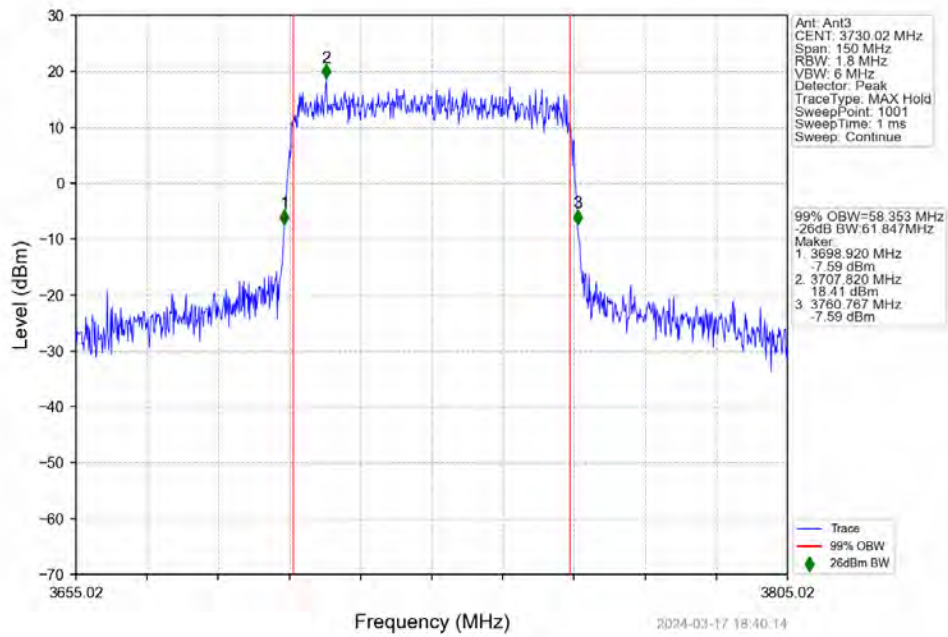
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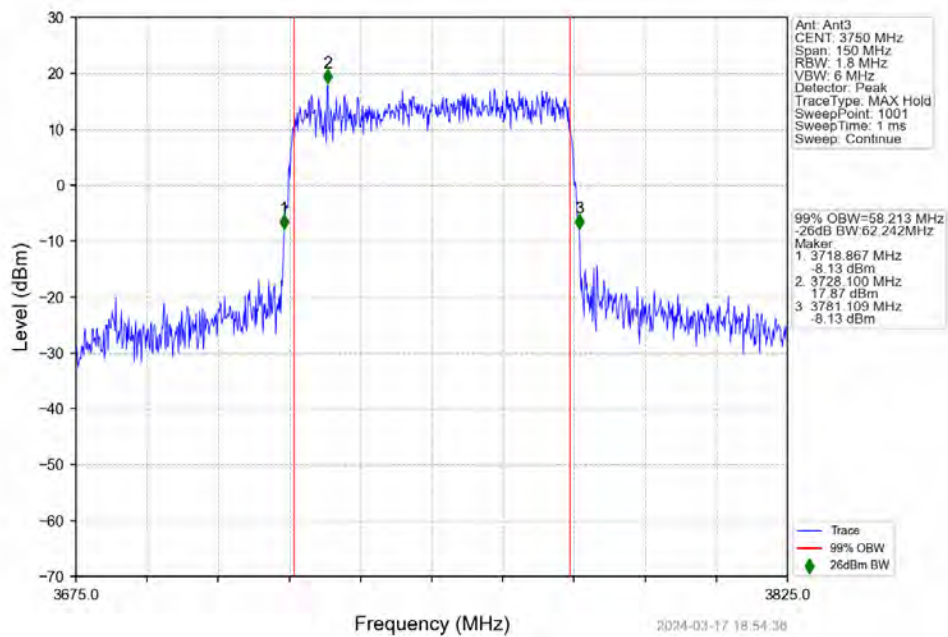
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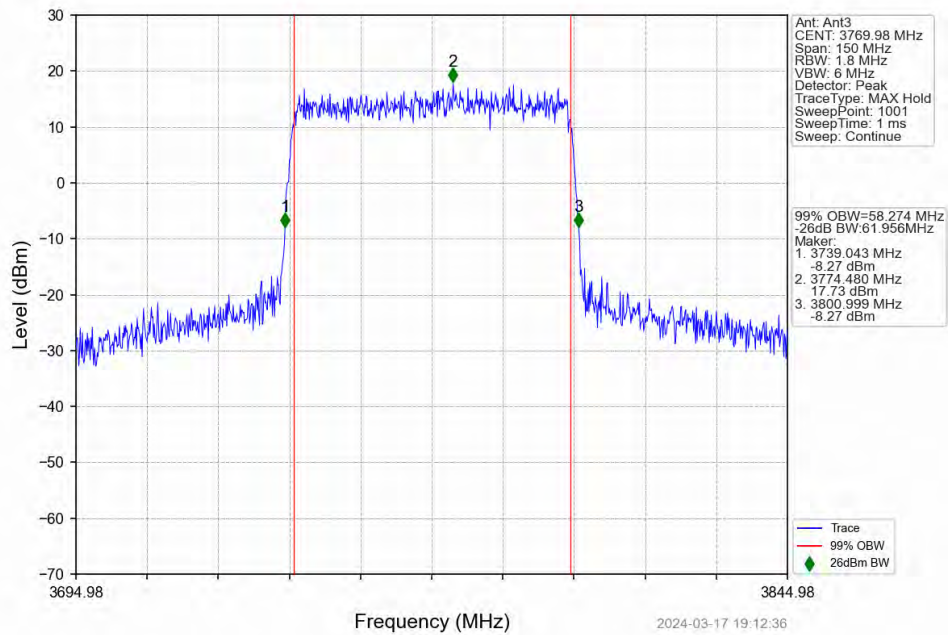
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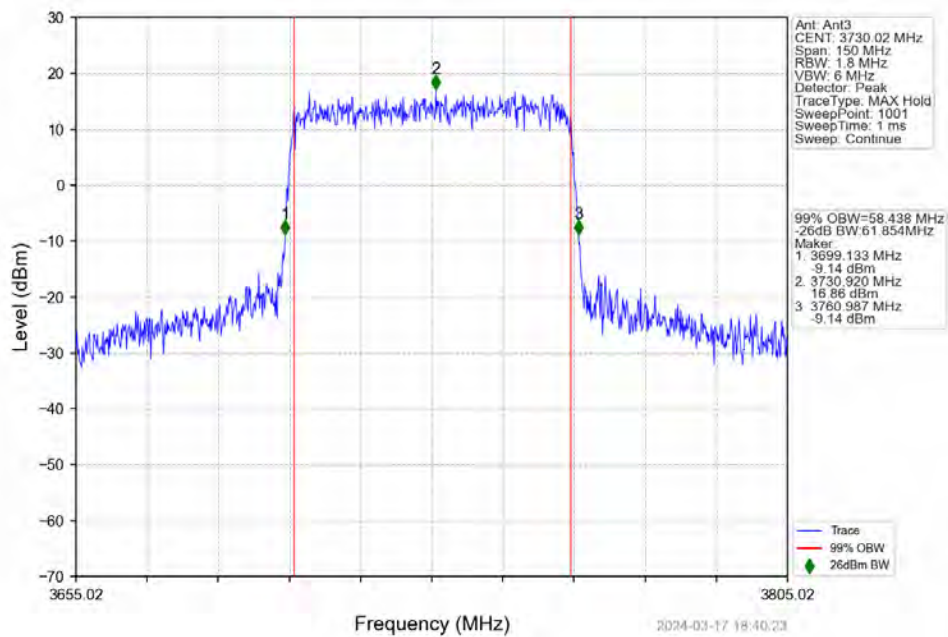
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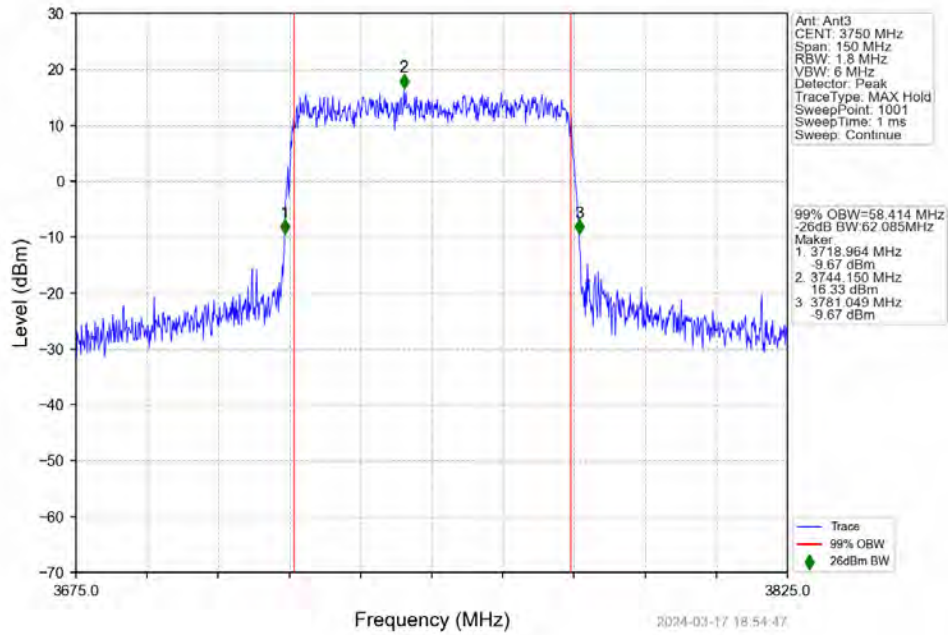
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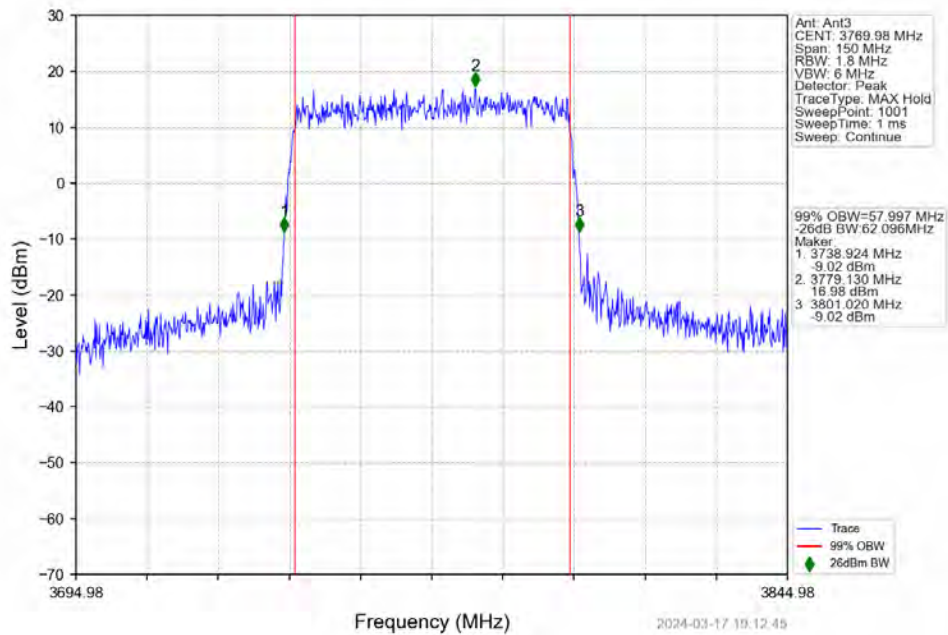
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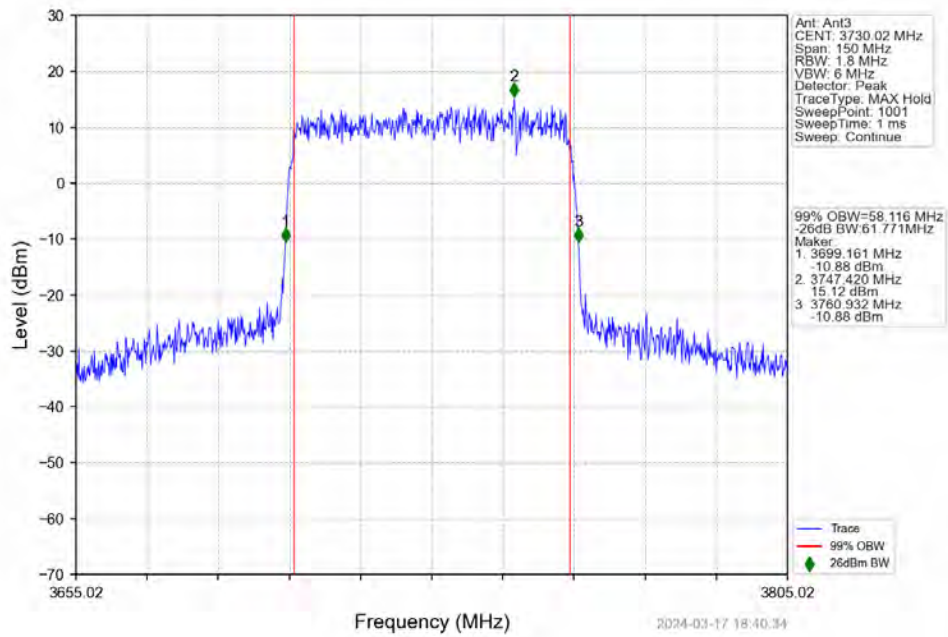
n78a 30kHz SISO NTN 60MHz CP-OFDM 64 QAM 3750MHz Outer Full



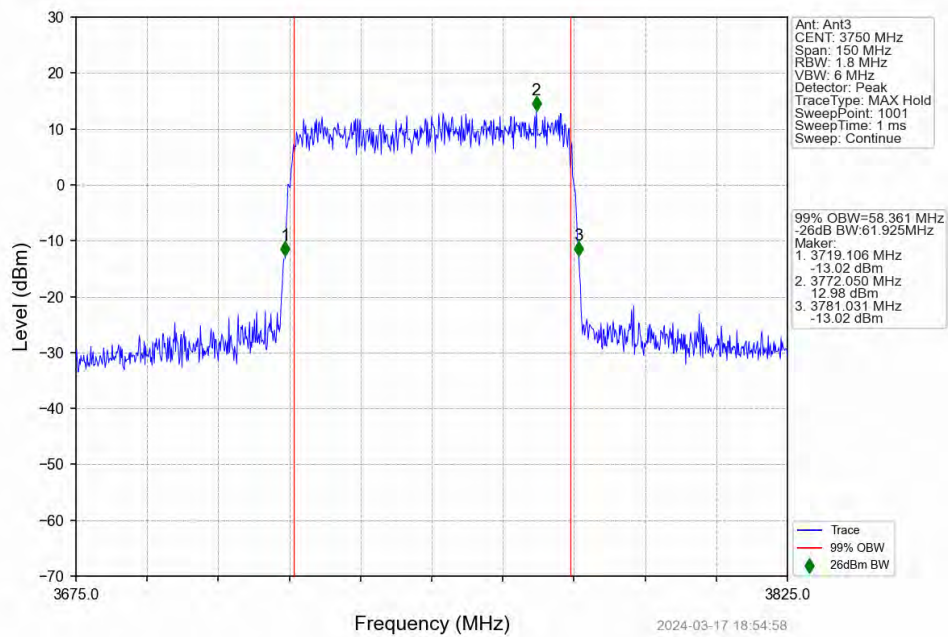
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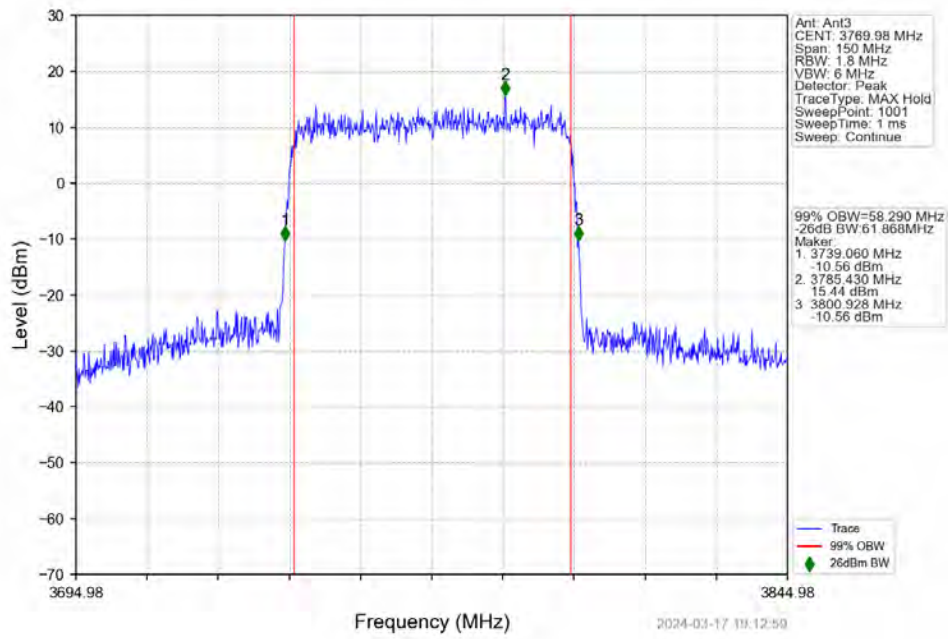
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n78a 30kHz SISO NTN 60MHz CP-OFDM 256 QAM 3750MHz Outer Full



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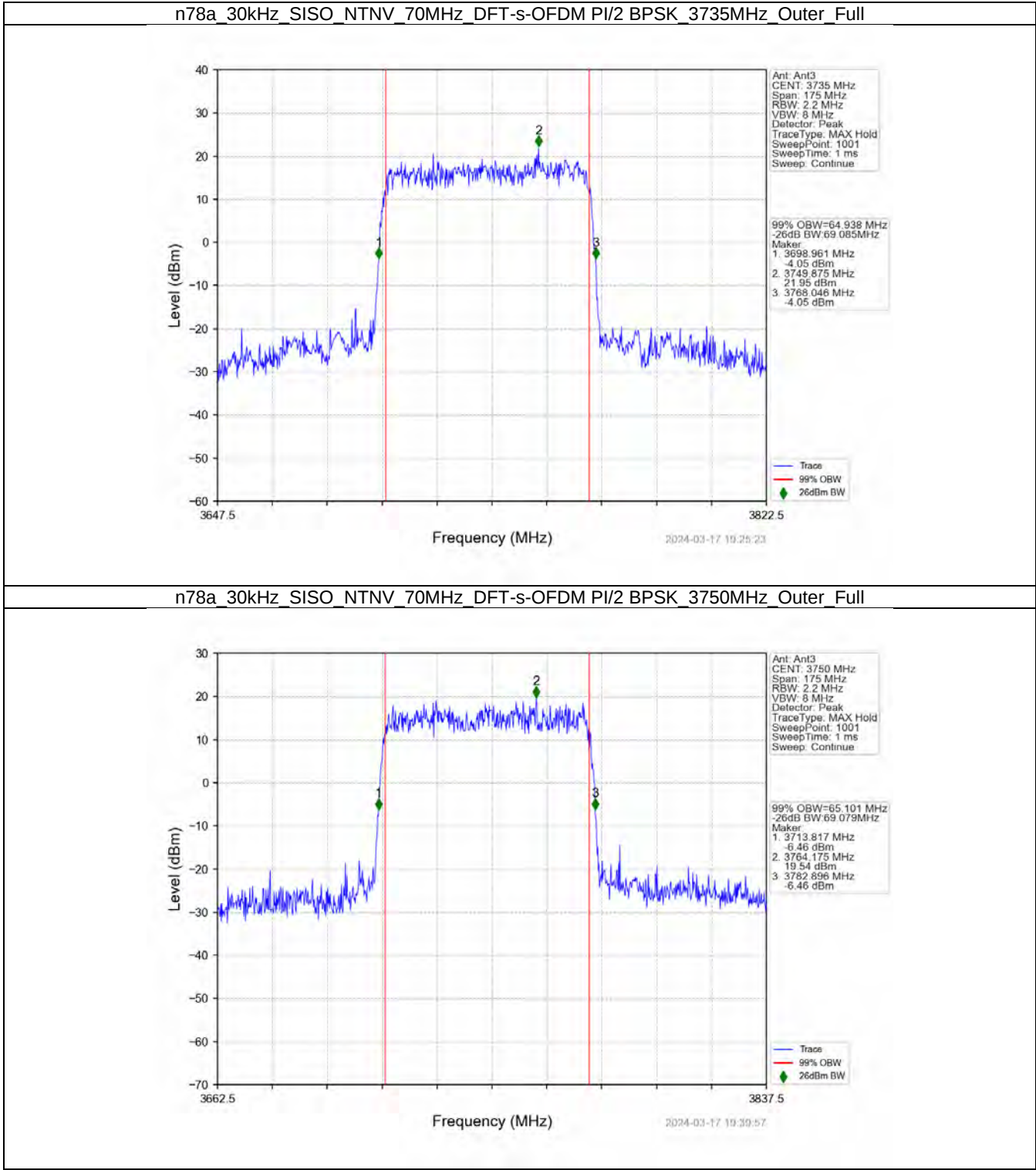


3.6 30k_SISO_70MHz_NTNV

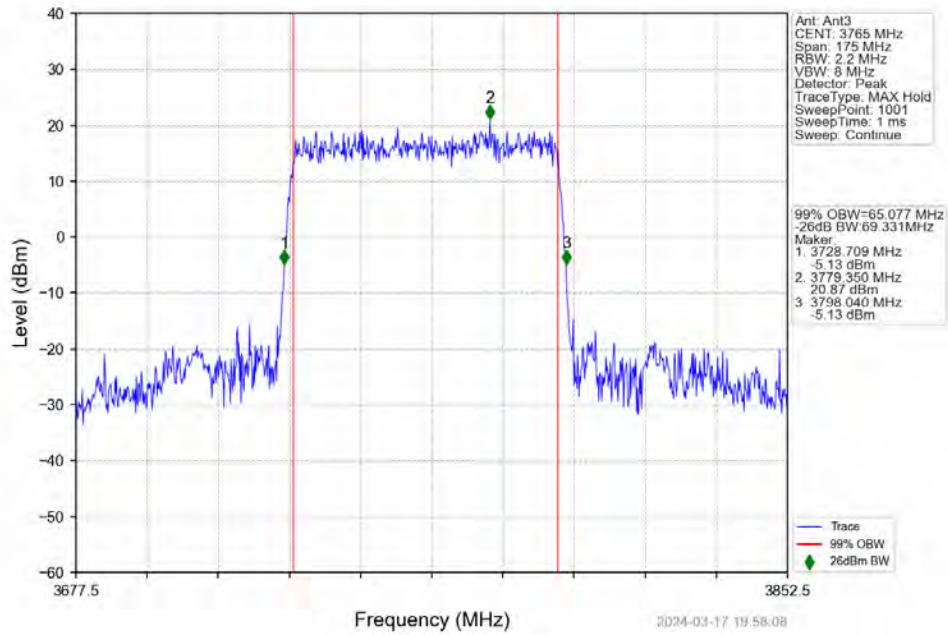
3.6.1 Test Result

5G NR n78a SCS=30kHz SISO 70MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3735	Outer_Full	64.94	69.08	/	Pass
	3750	Outer_Full	65.10	69.08	/	Pass
	3765	Outer_Full	65.08	69.33	/	Pass
DFT-s-OFDM QPSK	3735	Outer_Full	64.69	69.39	/	Pass
	3750	Outer_Full	64.64	69.34	/	Pass
	3765	Outer_Full	64.78	69.26	/	Pass
DFT-s-OFDM 16 QAM	3735	Outer_Full	64.92	69.08	/	Pass
	3750	Outer_Full	65.02	69.19	/	Pass
	3765	Outer_Full	64.75	69.00	/	Pass
DFT-s-OFDM 64 QAM	3735	Outer_Full	64.75	69.53	/	Pass
	3750	Outer_Full	64.73	69.33	/	Pass
	3765	Outer_Full	64.81	69.38	/	Pass
DFT-s-OFDM 256 QAM	3735	Outer_Full	64.72	69.34	/	Pass
	3750	Outer_Full	64.54	68.92	/	Pass
	3765	Outer_Full	64.80	69.00	/	Pass
CP-OFDM QPSK	3735	Outer_Full	68.18	72.54	/	Pass
	3750	Outer_Full	68.12	72.63	/	Pass
	3765	Outer_Full	68.08	72.30	/	Pass
CP-OFDM 16 QAM	3735	Outer_Full	67.72	72.44	/	Pass
	3750	Outer_Full	67.81	72.50	/	Pass
	3765	Outer_Full	67.81	75.00	/	Pass
CP-OFDM 64 QAM	3735	Outer_Full	68.01	72.67	/	Pass
	3750	Outer_Full	67.87	72.58	/	Pass
	3765	Outer_Full	68.21	72.68	/	Pass
CP-OFDM 256 QAM	3735	Outer_Full	67.95	72.52	/	Pass
	3750	Outer_Full	68.09	72.26	/	Pass
	3765	Outer_Full	67.98	72.36	/	Pass

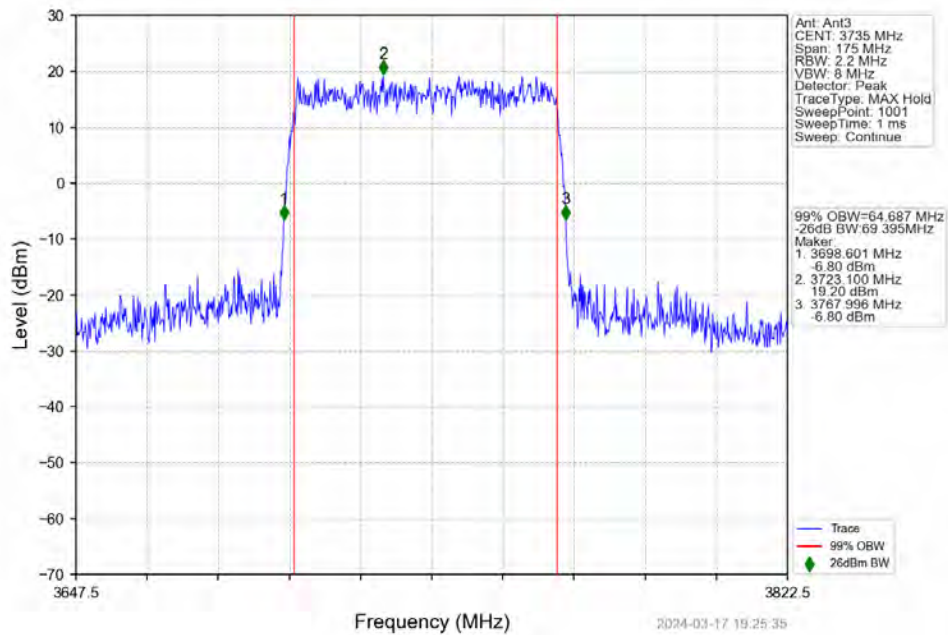
3.6.2 Test Graph



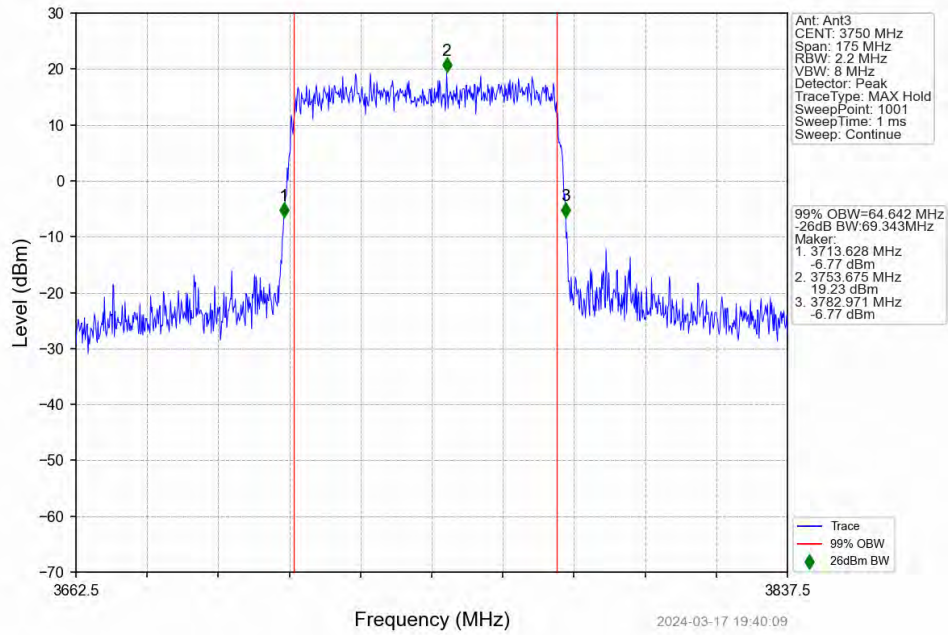
n78a 30kHz SISO NTN 70MHz DFT-s-OFDM PI/2 BPSK 3765MHz Outer Full



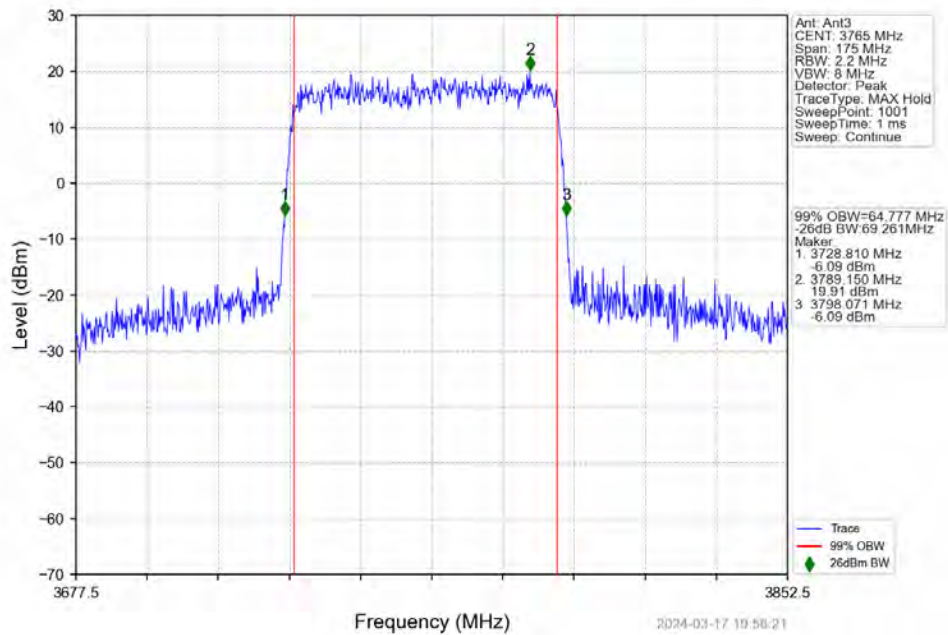
n78a 30kHz SISO NTN 70MHz DFT-s-OFDM QPSK 3735MHz Outer Full



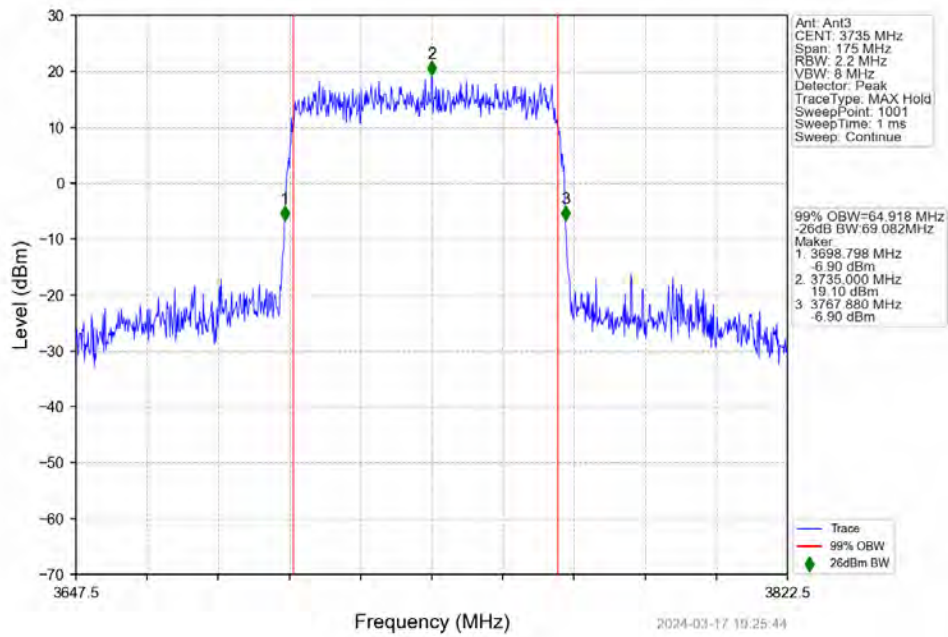
n78a 30kHz SISO NTN 70MHz DFT-s-OFDM QPSK 3750MHz Outer Full



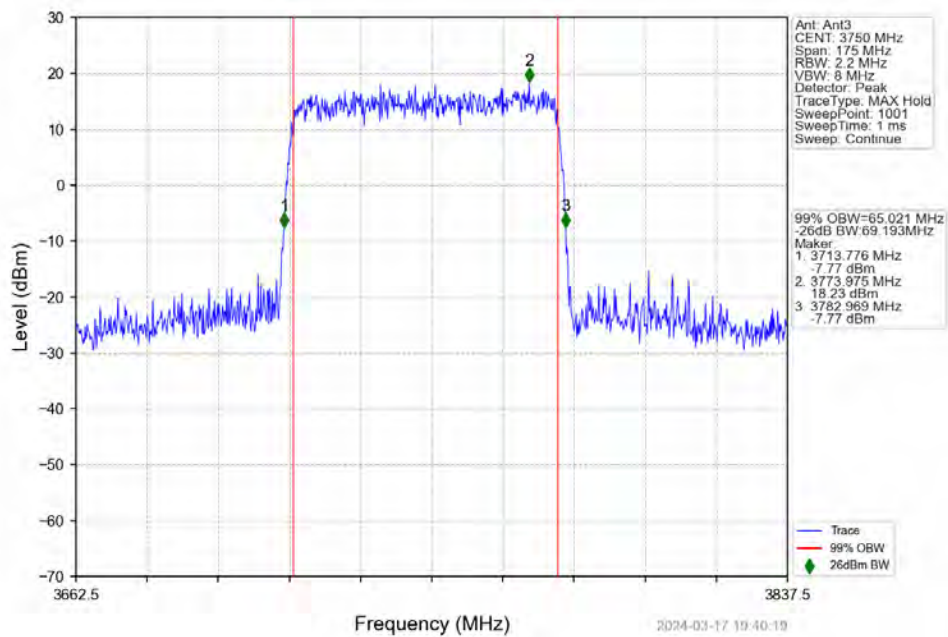
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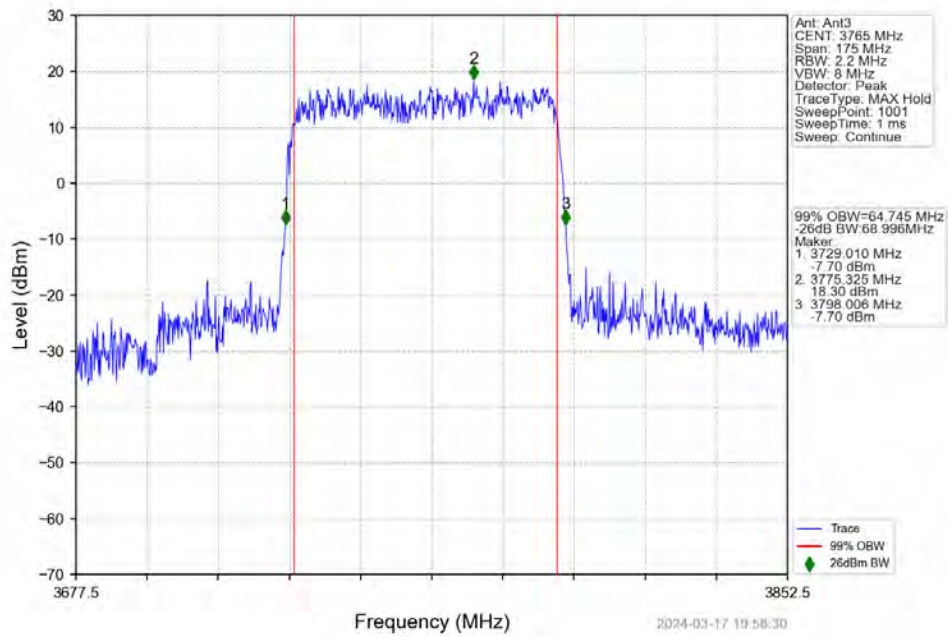
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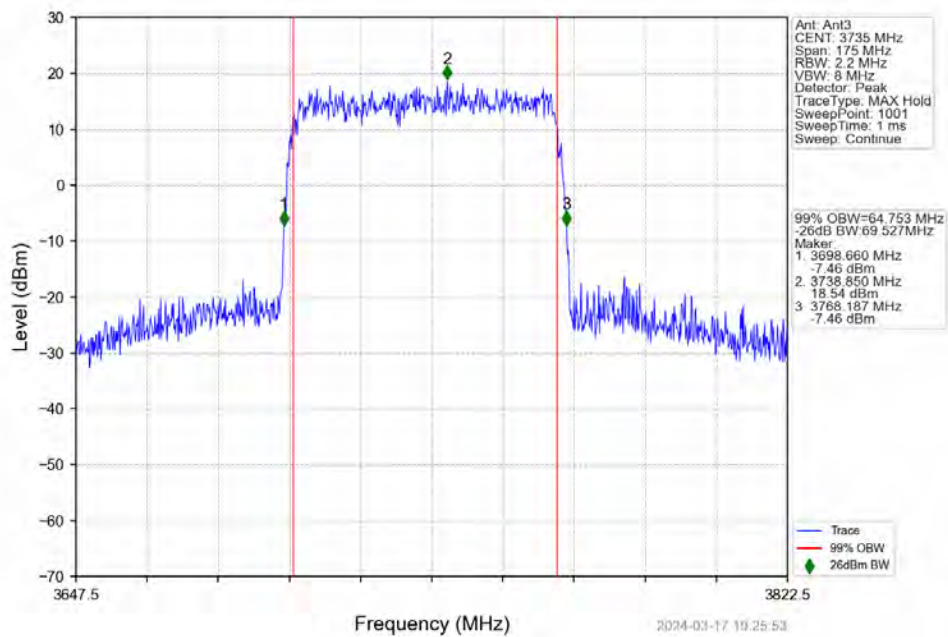
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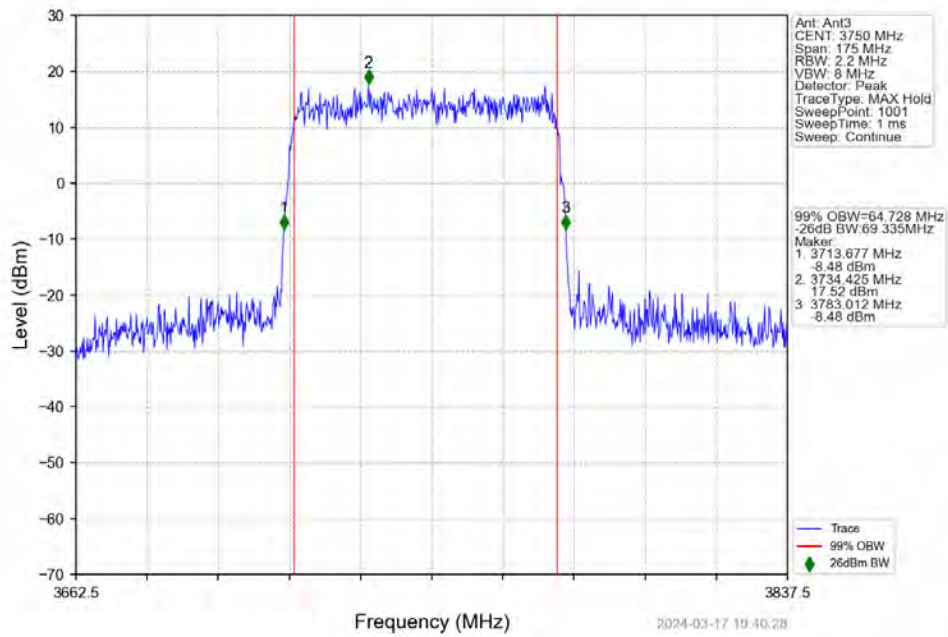
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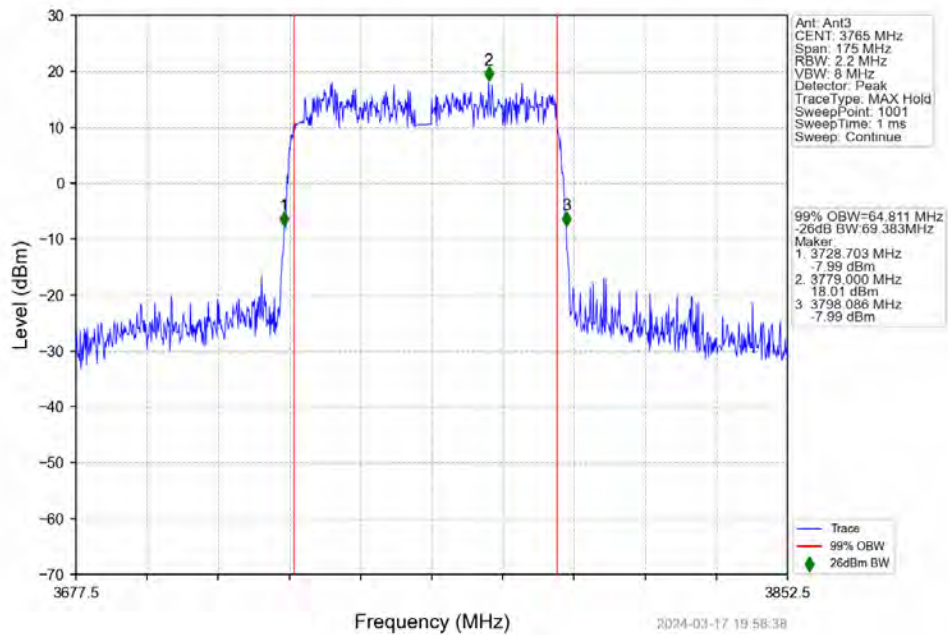
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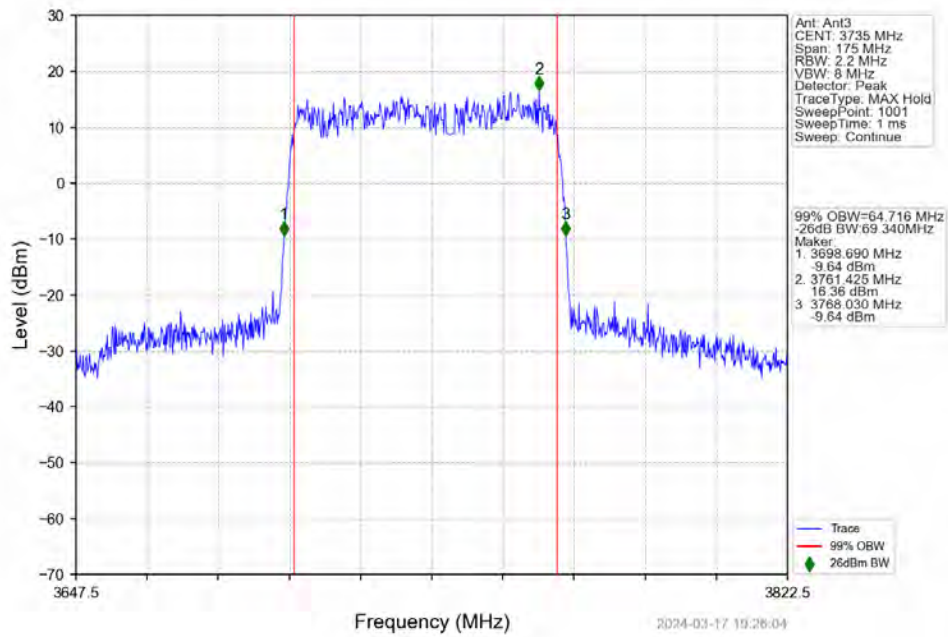
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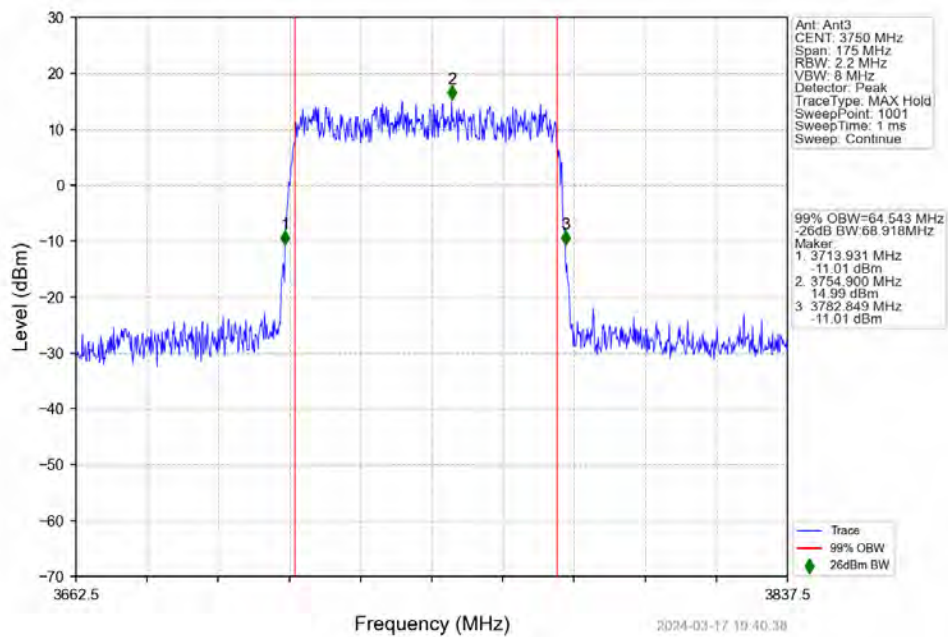
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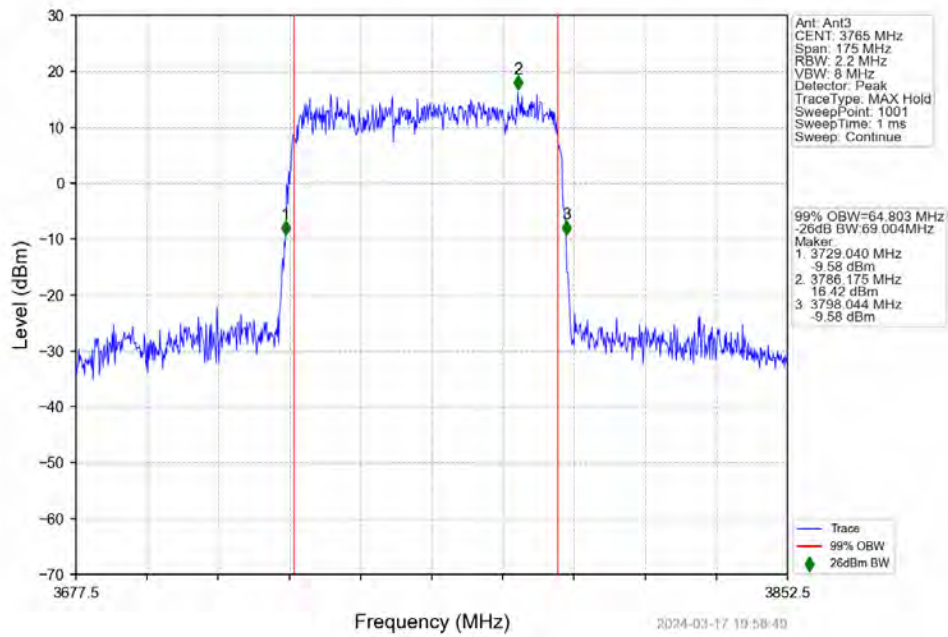
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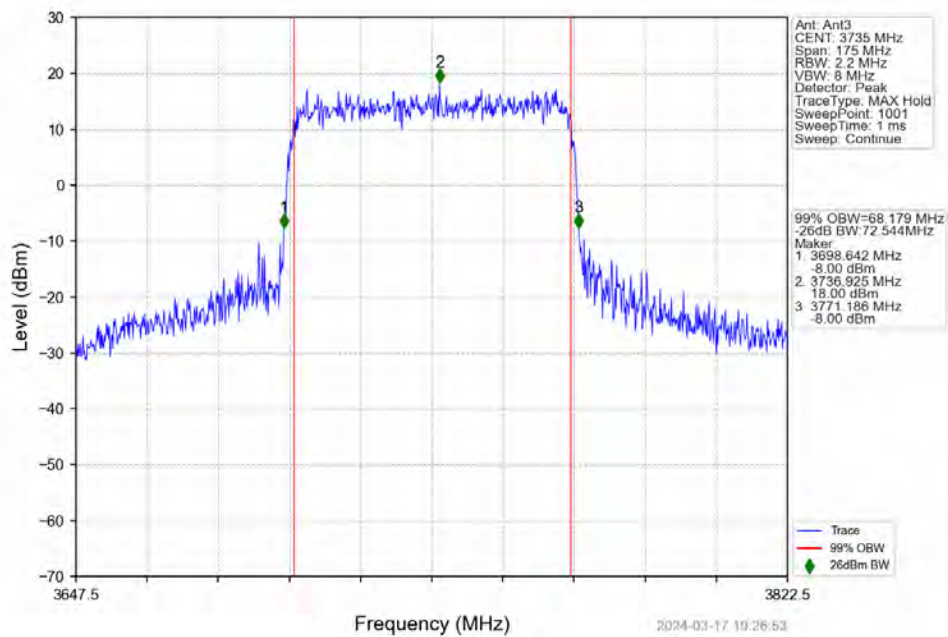
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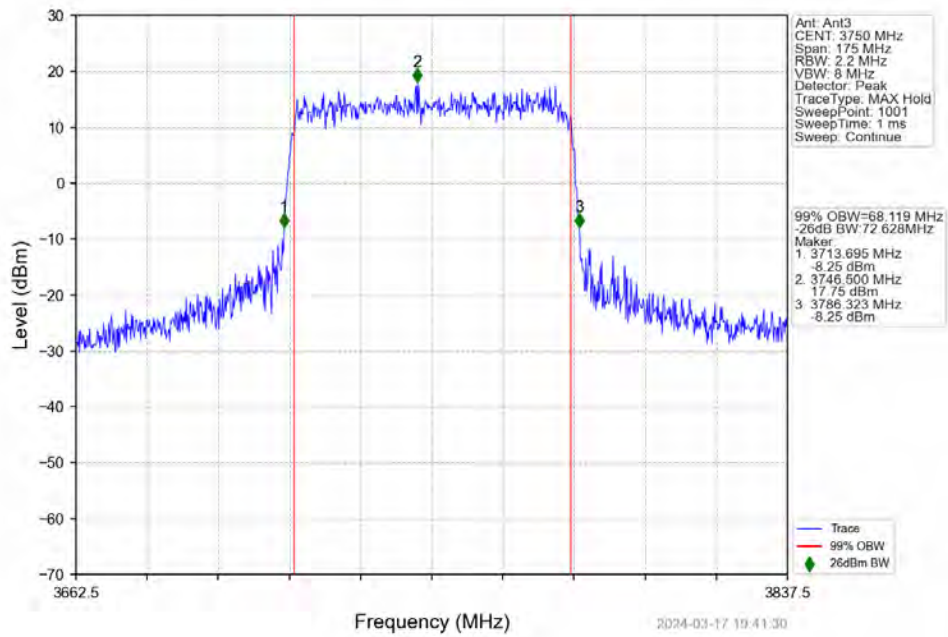
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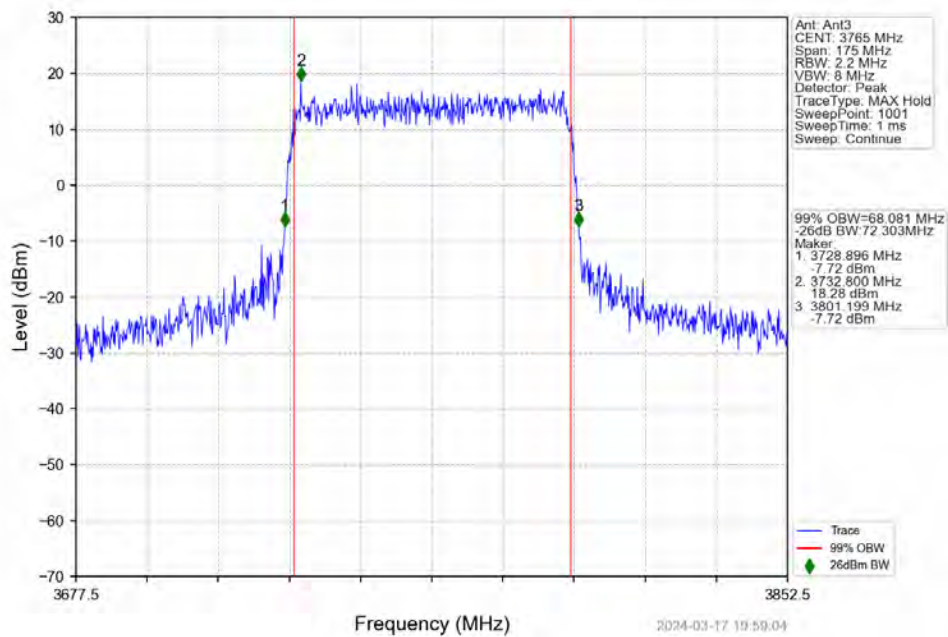
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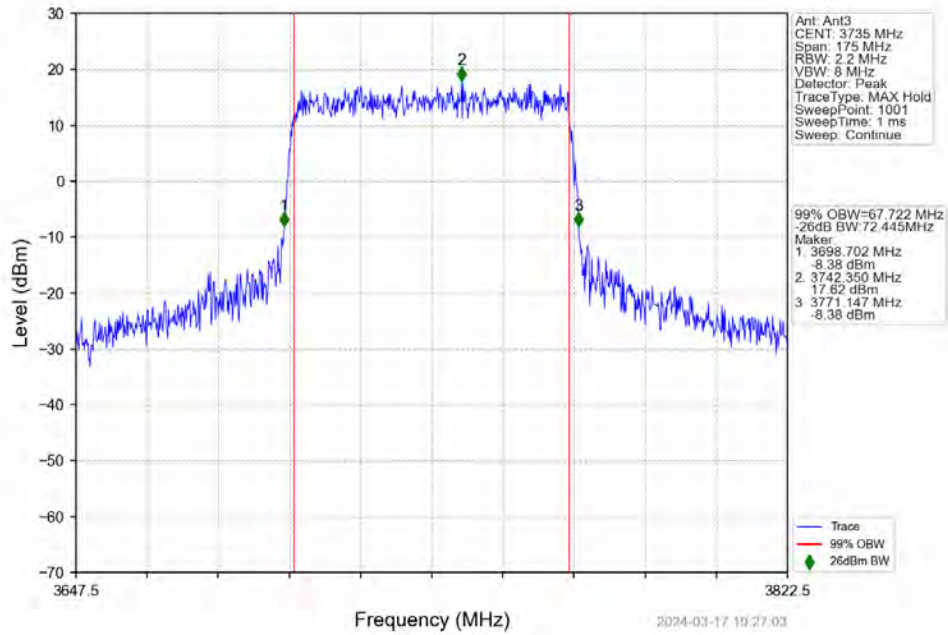
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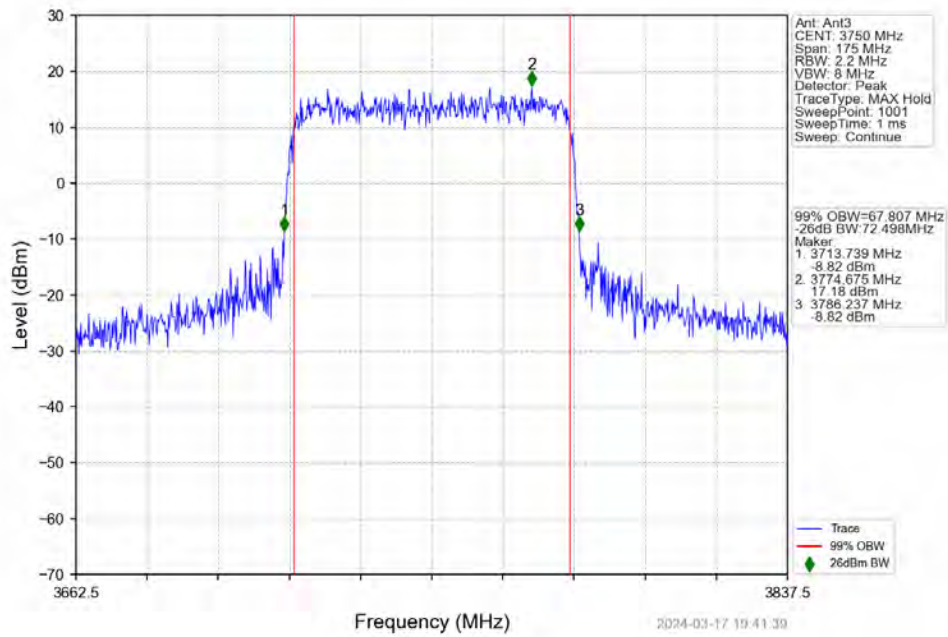
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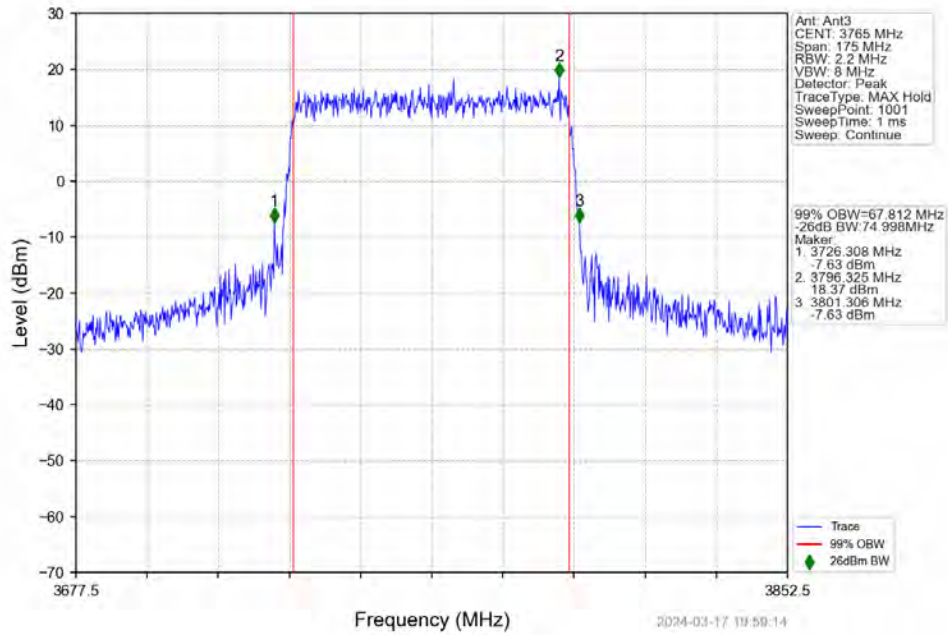
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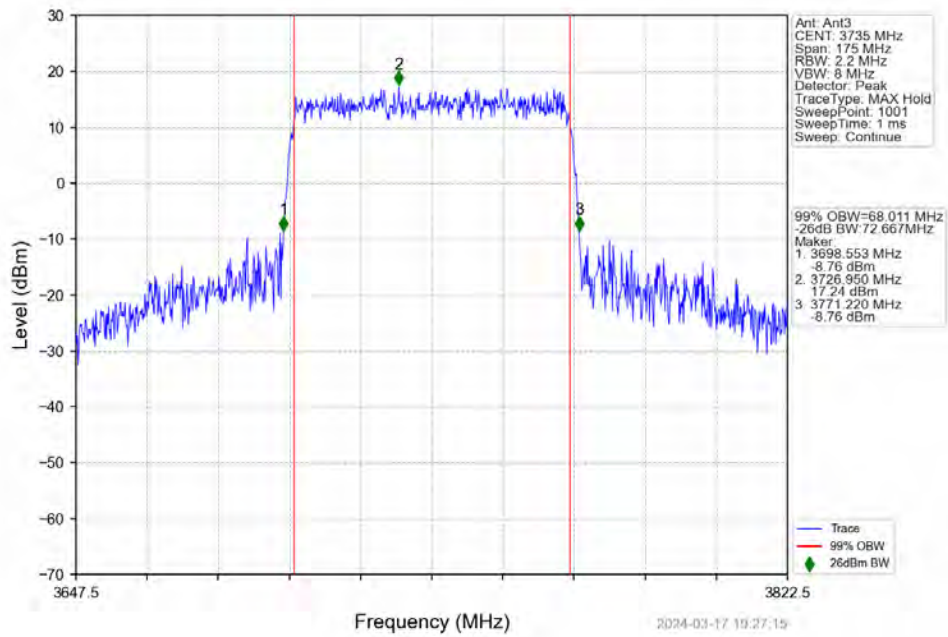
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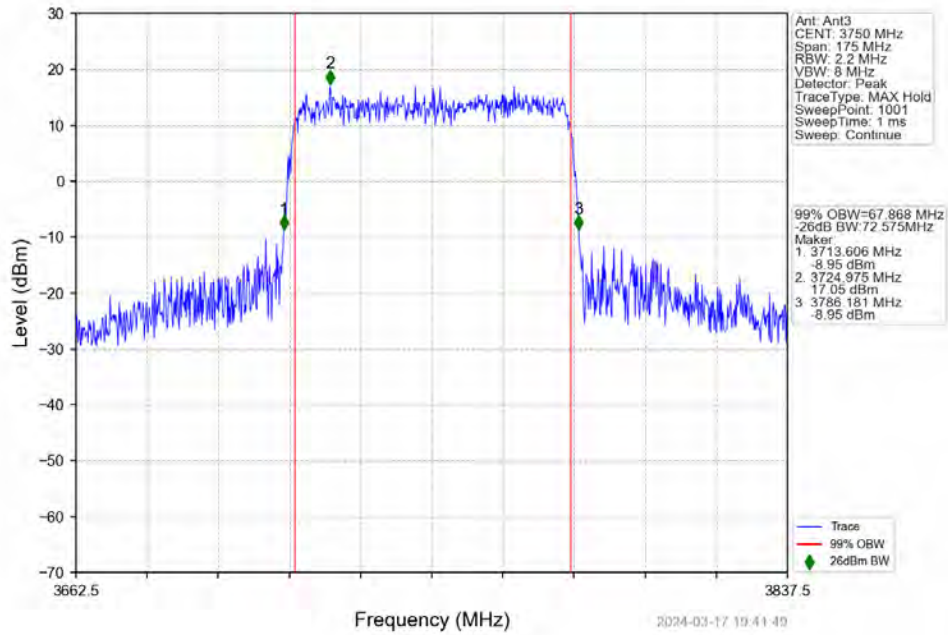
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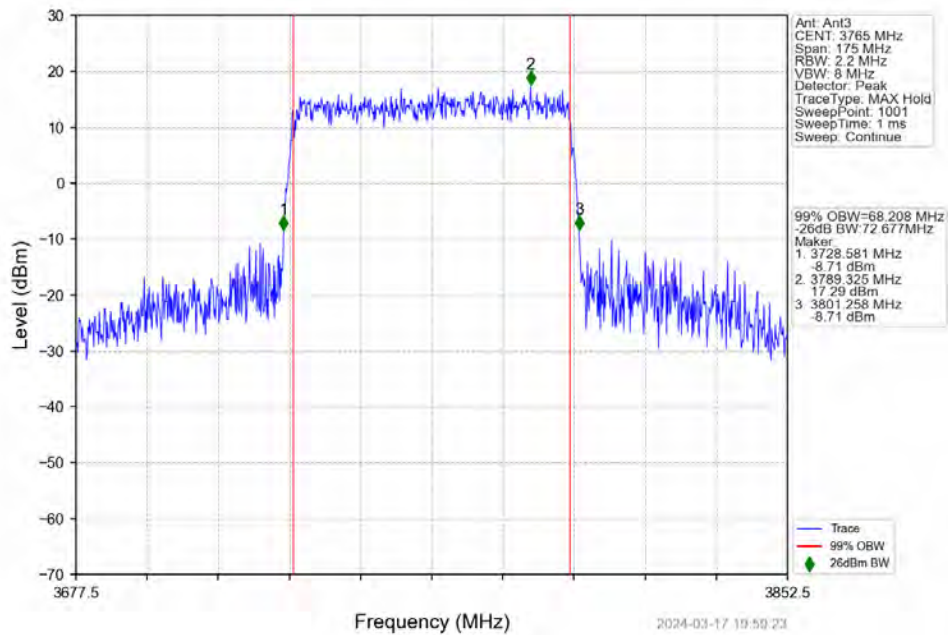
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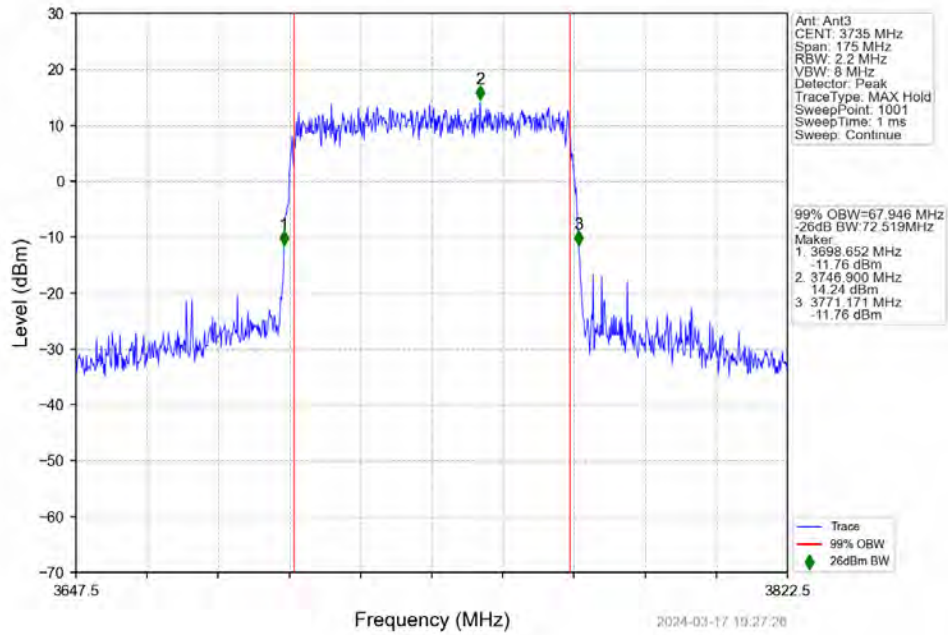
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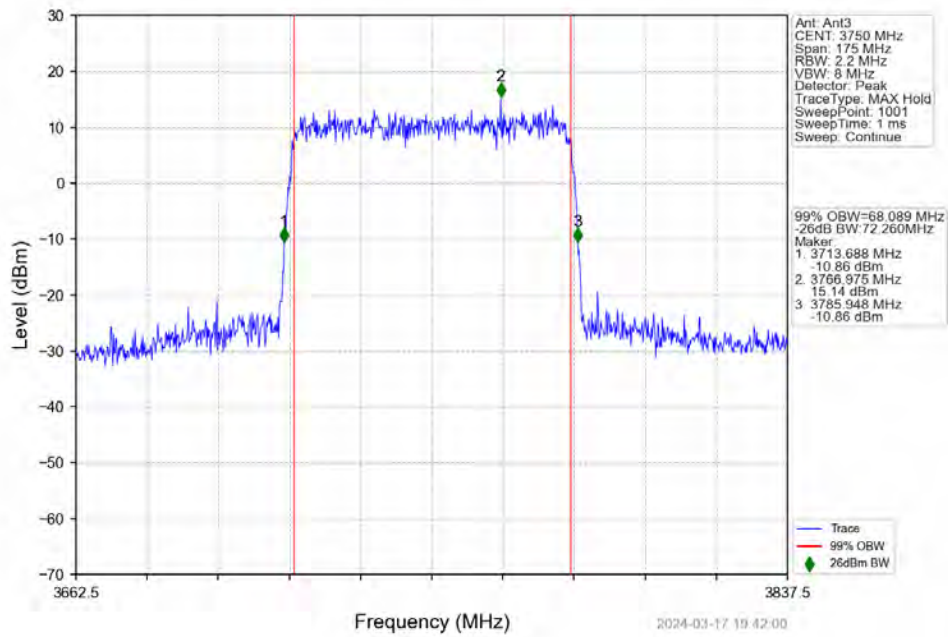
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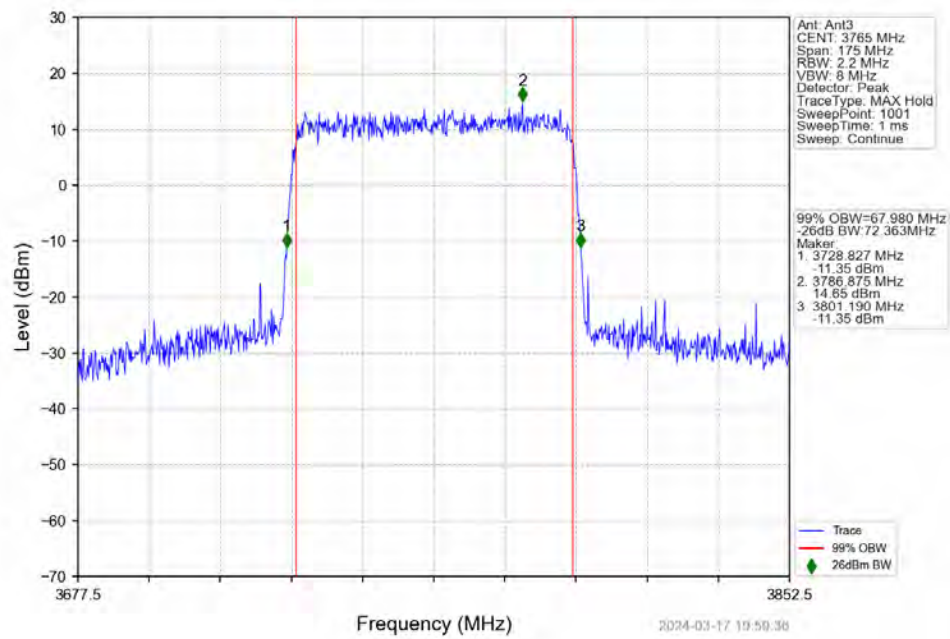
n78a 30kHz SISO NTN 70MHz CP-OFDM 256 QAM 3735MHz Outer Full



n78a 30kHz SISO NTN 70MHz CP-OFDM 256 QAM 3750MHz Outer Full



n78a 30kHz SISO NTN 70MHz CP-OFDM 256 QAM 3765MHz Outer Full

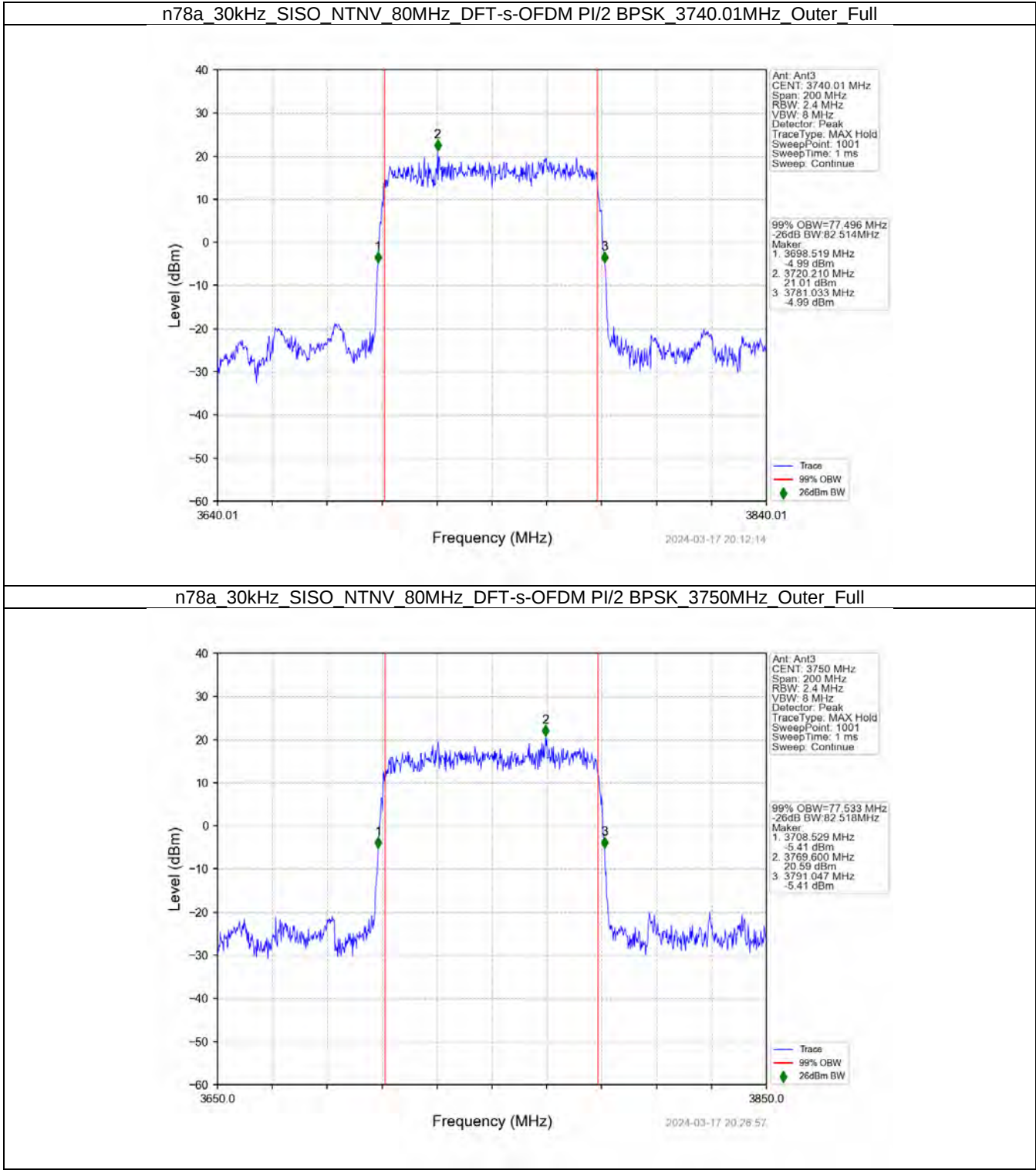


3.7 30k_SISO_80MHz_NTNV

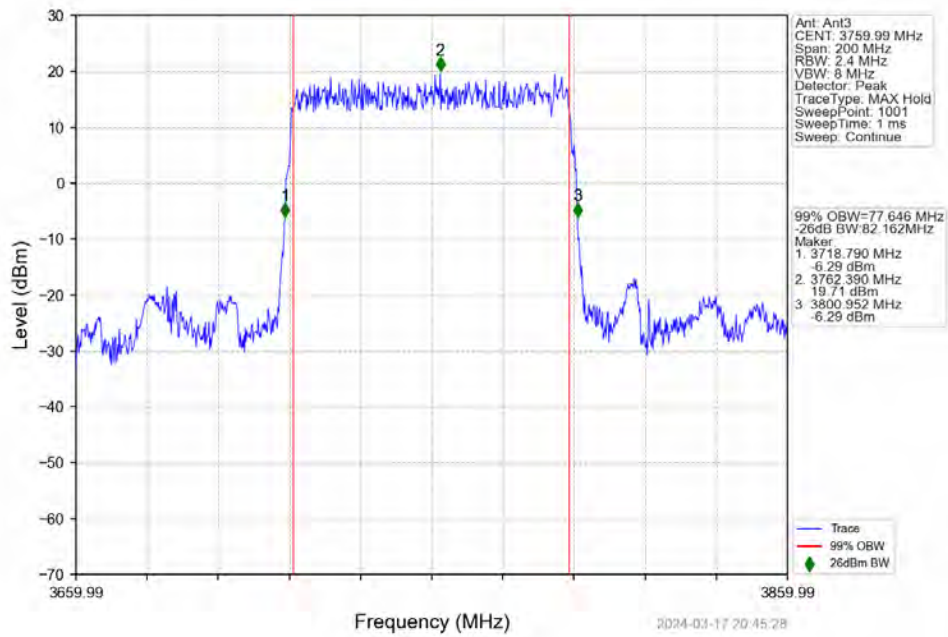
3.7.1 Test Result

5G NR n78a 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	3740.01	Outer_Full	77.50	82.51	/	Pass
	3750	Outer_Full	77.53	82.52	/	Pass
	3759.99	Outer_Full	77.65	82.16	/	Pass
DFT-s-OFDM QPSK	3740.01	Outer_Full	78.11	83.00	/	Pass
	3750	Outer_Full	77.67	82.59	/	Pass
	3759.99	Outer_Full	77.47	82.88	/	Pass
DFT-s-OFDM 16 QAM	3740.01	Outer_Full	77.70	82.43	/	Pass
	3750	Outer_Full	77.45	82.77	/	Pass
	3759.99	Outer_Full	77.45	82.82	/	Pass
DFT-s-OFDM 64 QAM	3740.01	Outer_Full	77.95	82.92	/	Pass
	3750	Outer_Full	78.07	82.85	/	Pass
	3759.99	Outer_Full	77.62	82.52	/	Pass
DFT-s-OFDM 256 QAM	3740.01	Outer_Full	77.41	82.81	/	Pass
	3750	Outer_Full	77.40	83.04	/	Pass
	3759.99	Outer_Full	77.99	82.77	/	Pass
CP-OFDM QPSK	3740.01	Outer_Full	77.77	82.88	/	Pass
	3750	Outer_Full	77.88	82.83	/	Pass
	3759.99	Outer_Full	78.07	83.19	/	Pass
CP-OFDM 16 QAM	3740.01	Outer_Full	78.05	82.85	/	Pass
	3750	Outer_Full	77.97	82.80	/	Pass
	3759.99	Outer_Full	77.76	82.98	/	Pass
CP-OFDM 64 QAM	3740.01	Outer_Full	78.07	82.97	/	Pass
	3750	Outer_Full	77.83	83.31	/	Pass
	3759.99	Outer_Full	78.19	83.17	/	Pass
CP-OFDM 256 QAM	3740.01	Outer_Full	77.67	82.82	/	Pass
	3750	Outer_Full	78.15	83.20	/	Pass
	3759.99	Outer_Full	77.88	83.05	/	Pass

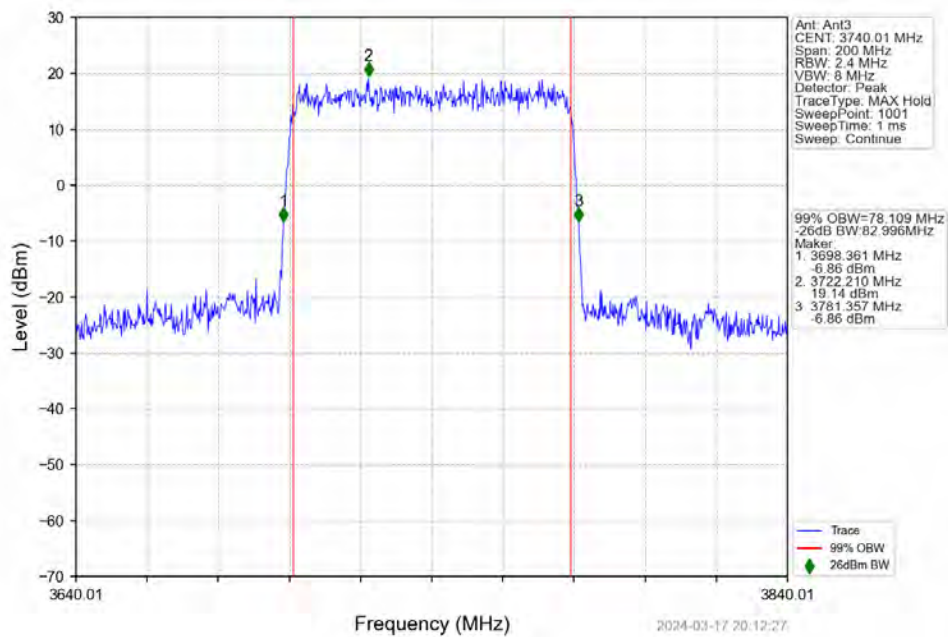
3.7.2 Test Graph



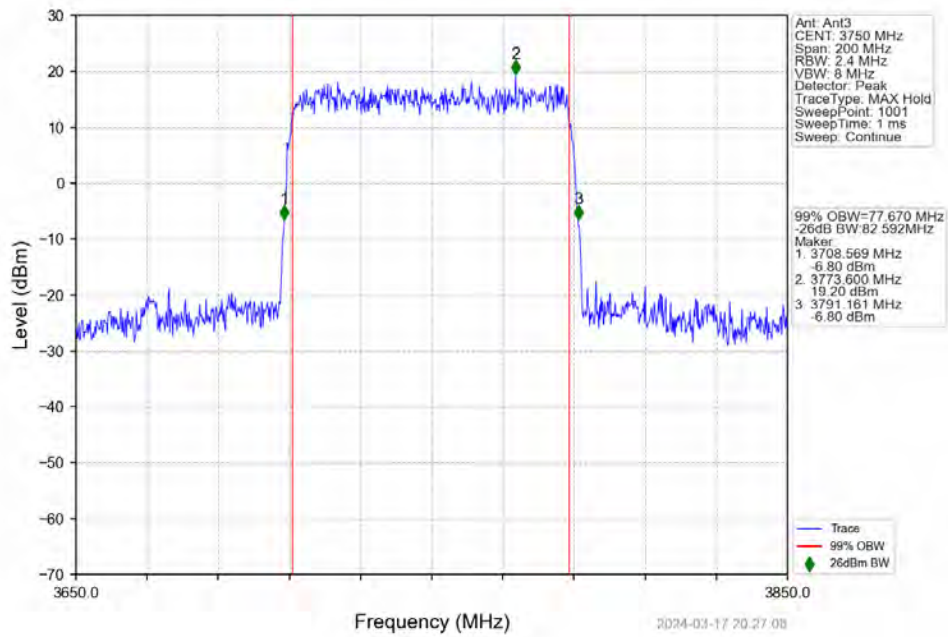
n78a 30kHz SISO NTN 80MHz DFT-s-OFDM PI/2 BPSK 3759.99MHz Outer Full



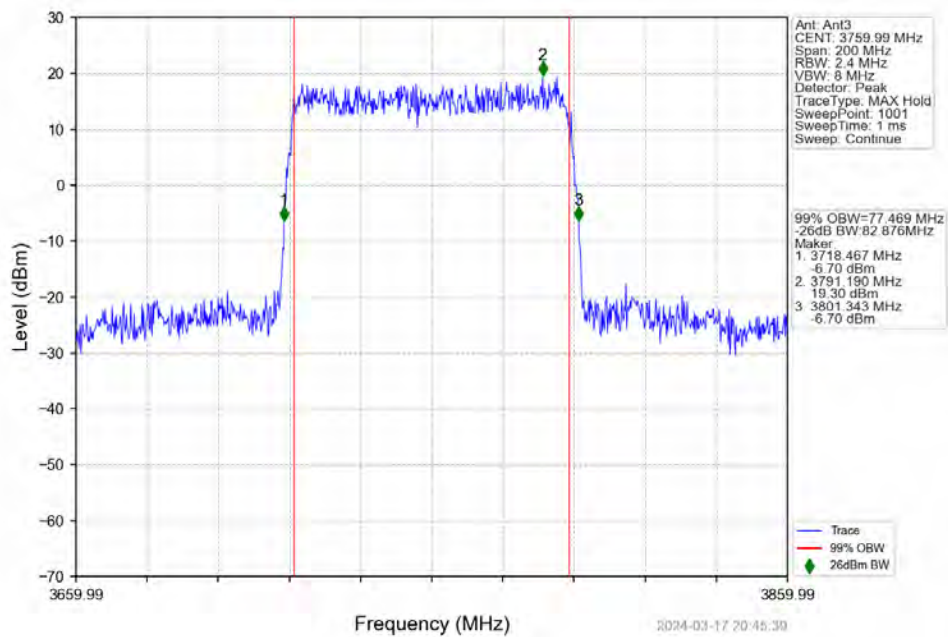
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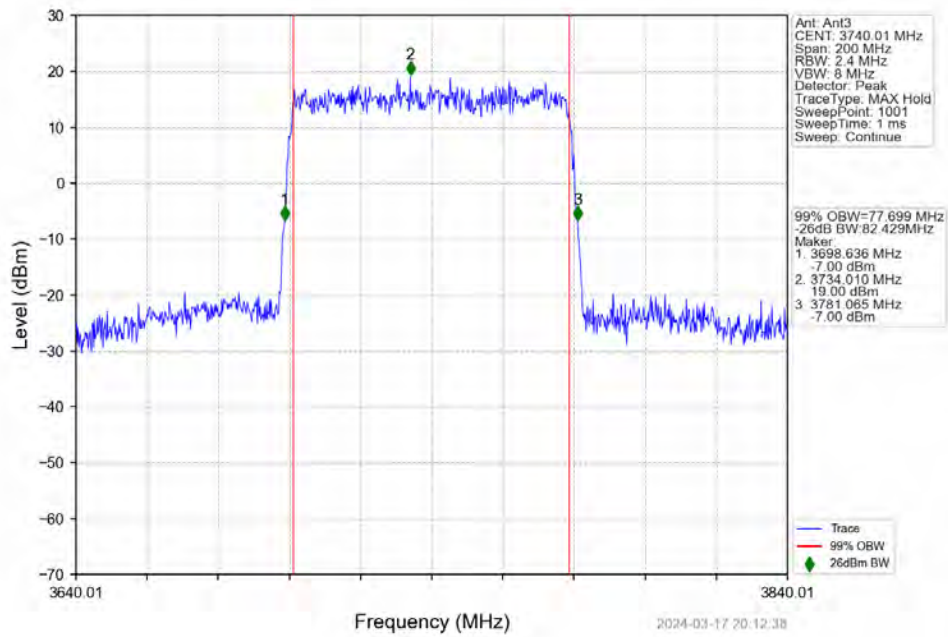
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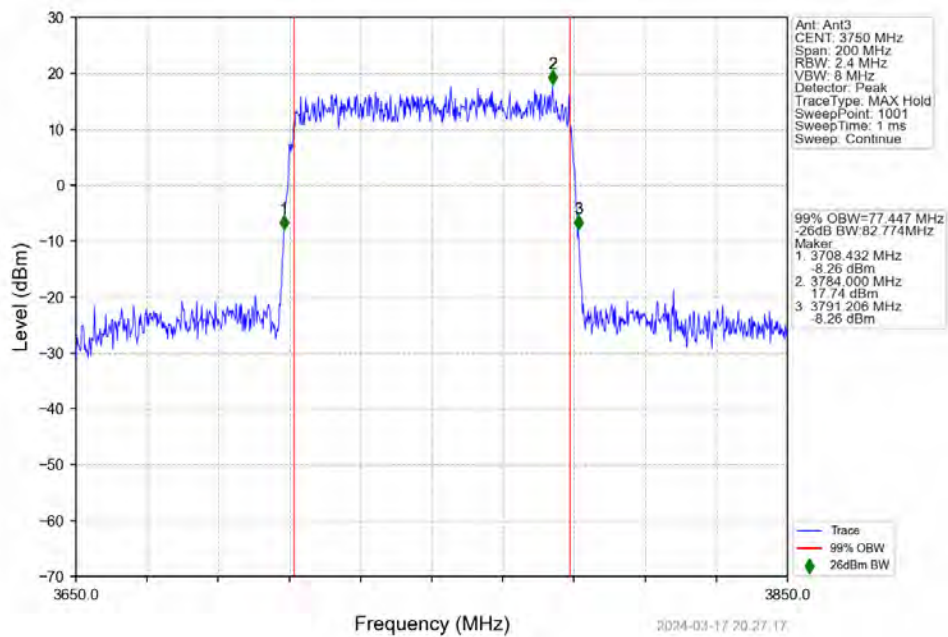
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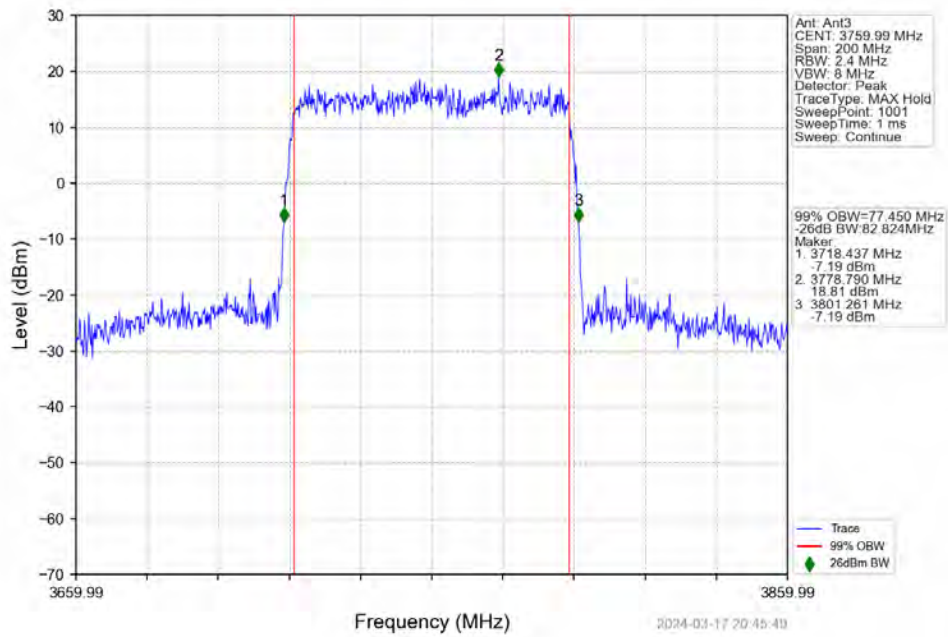
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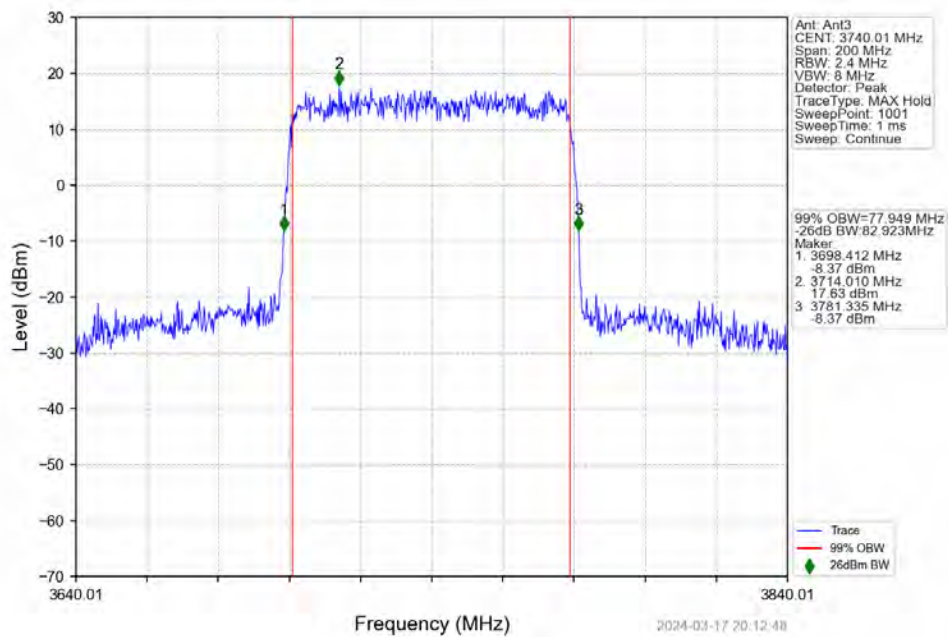
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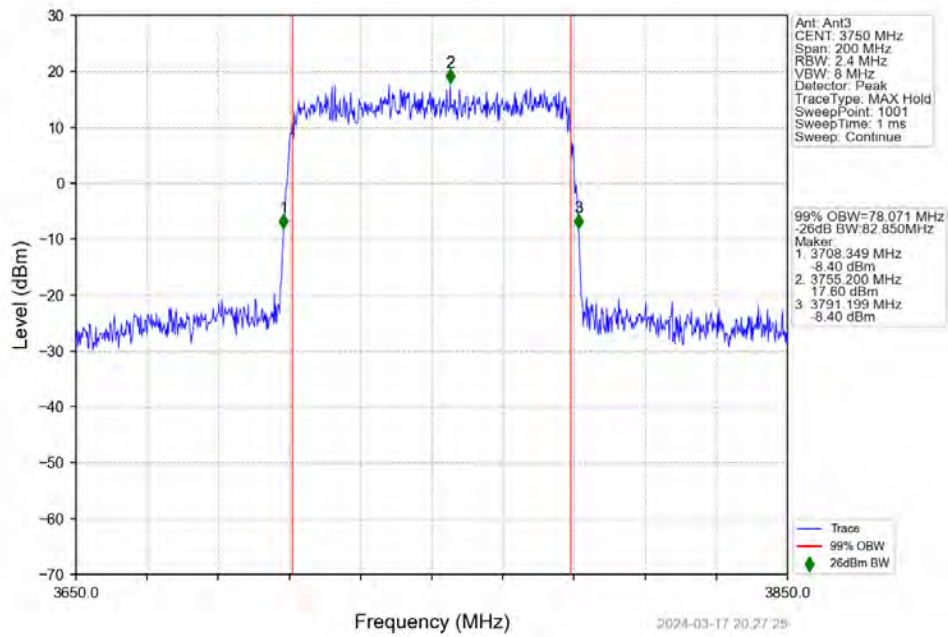
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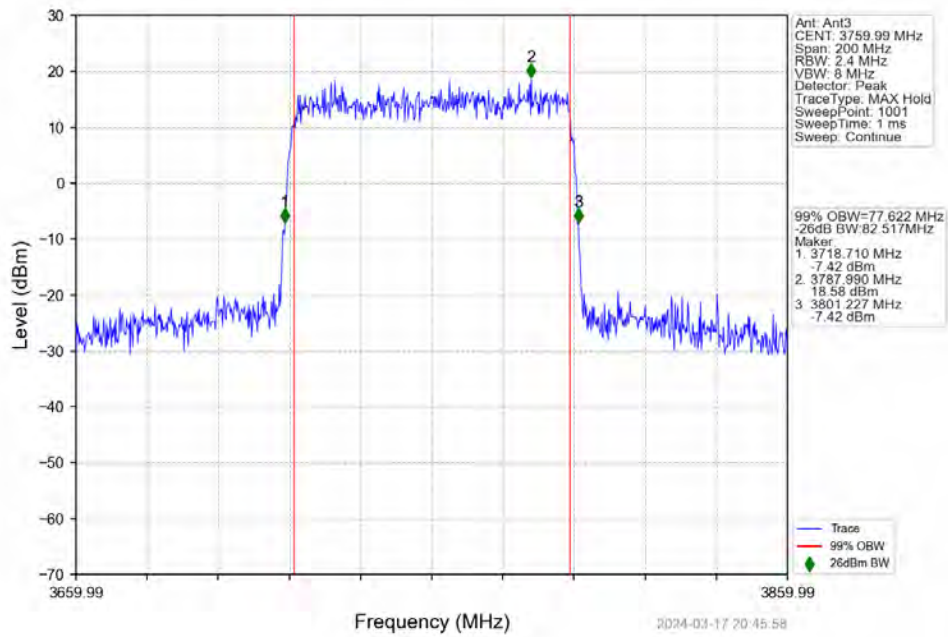
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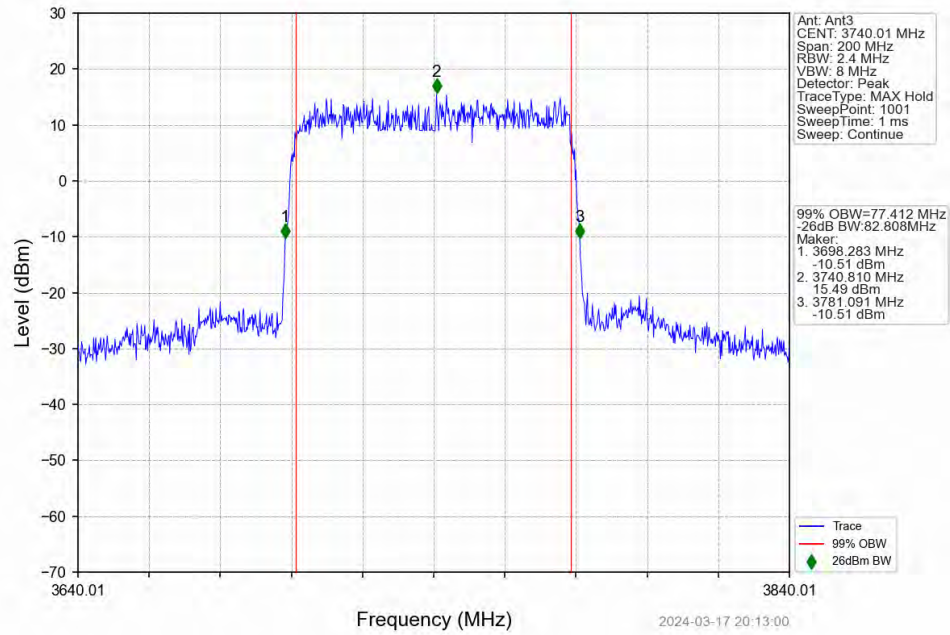
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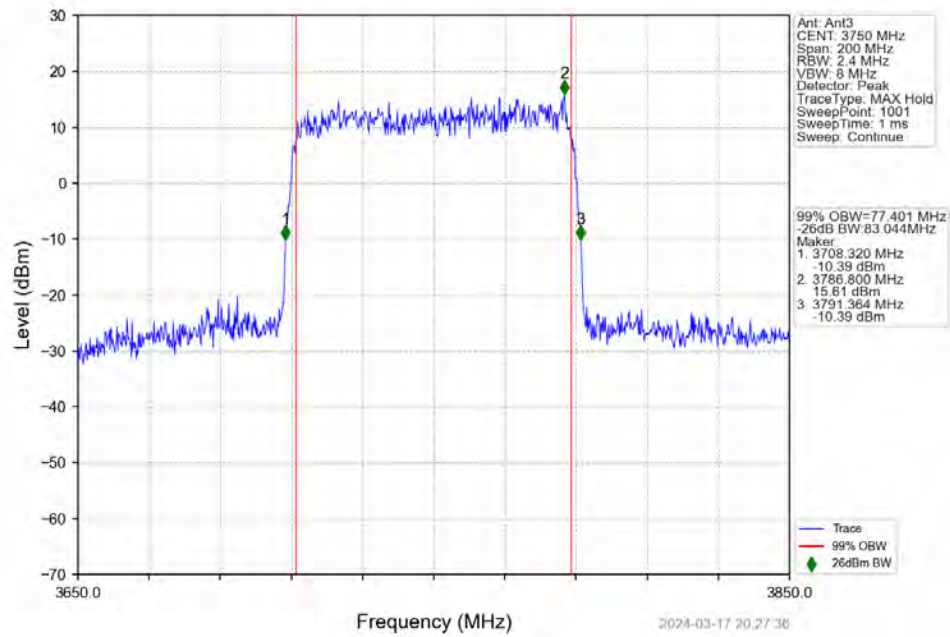
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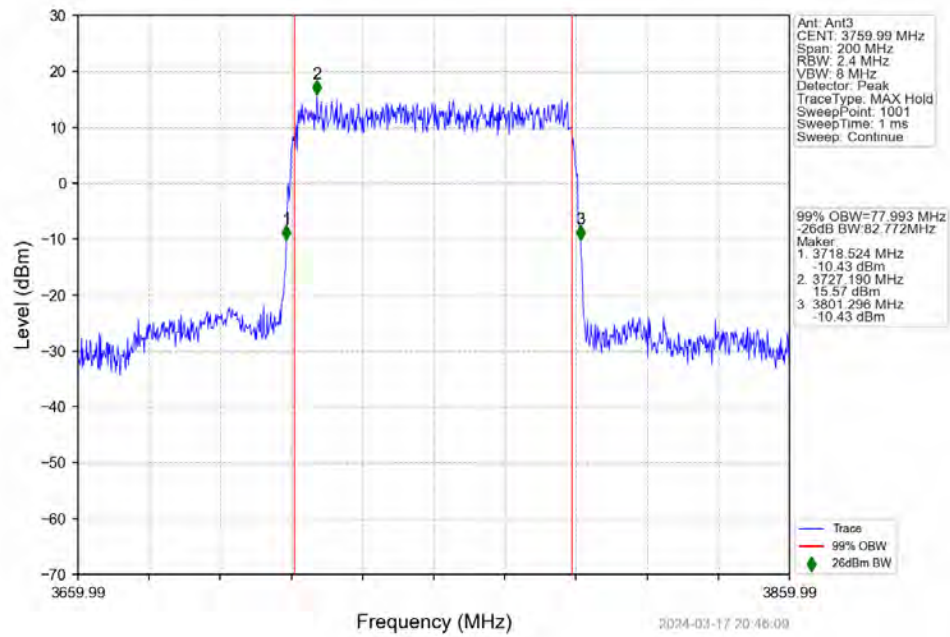
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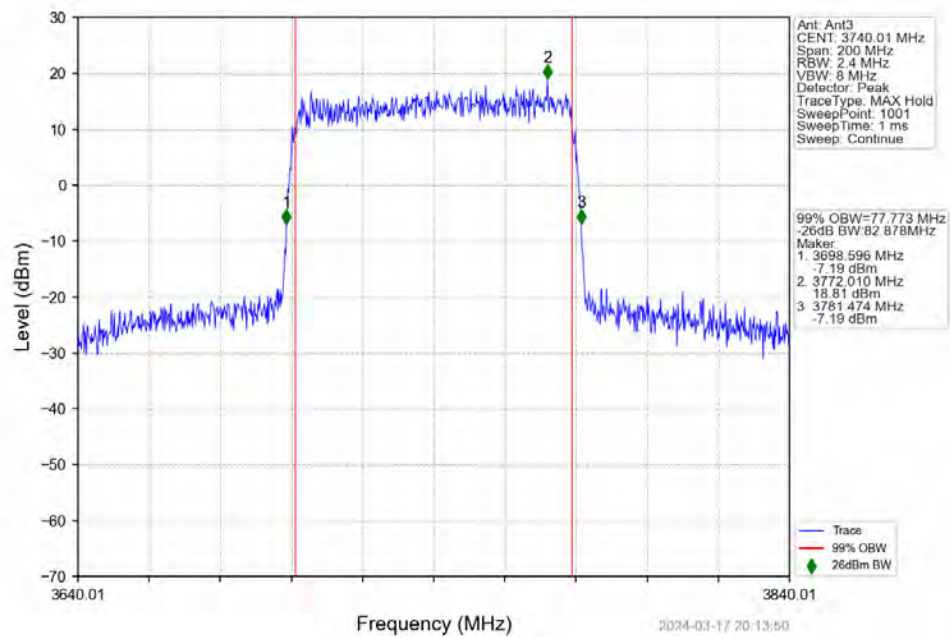
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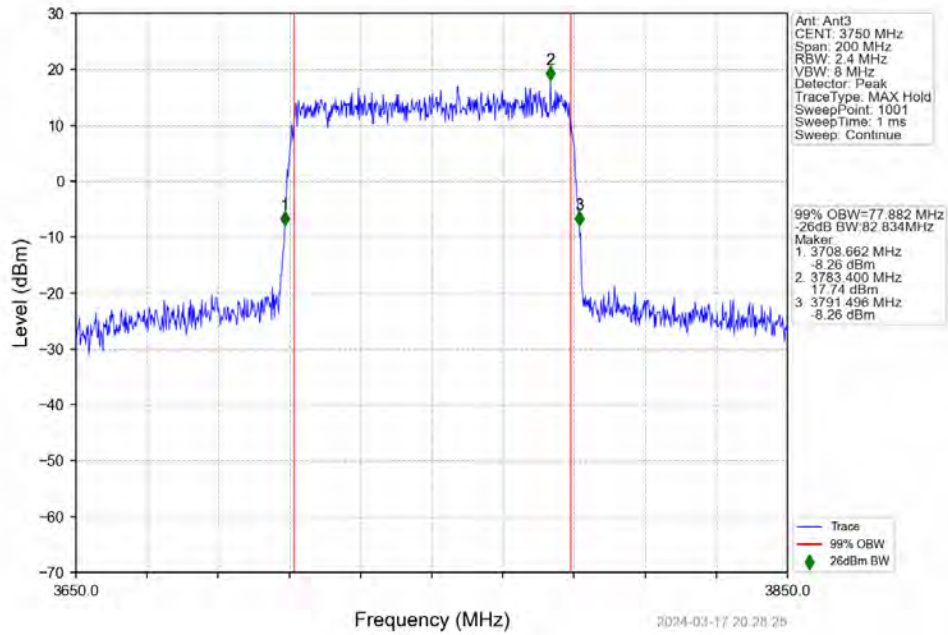
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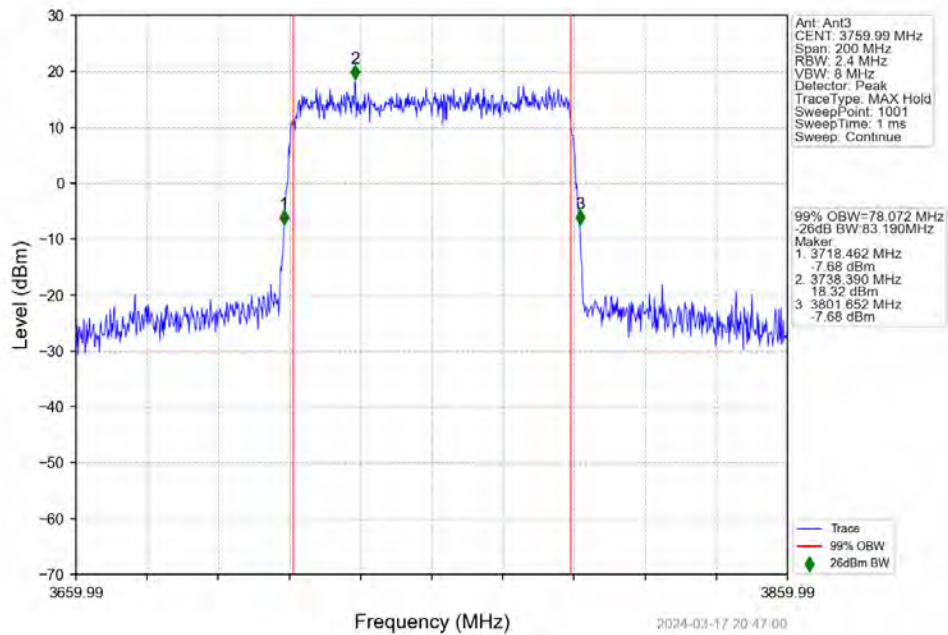
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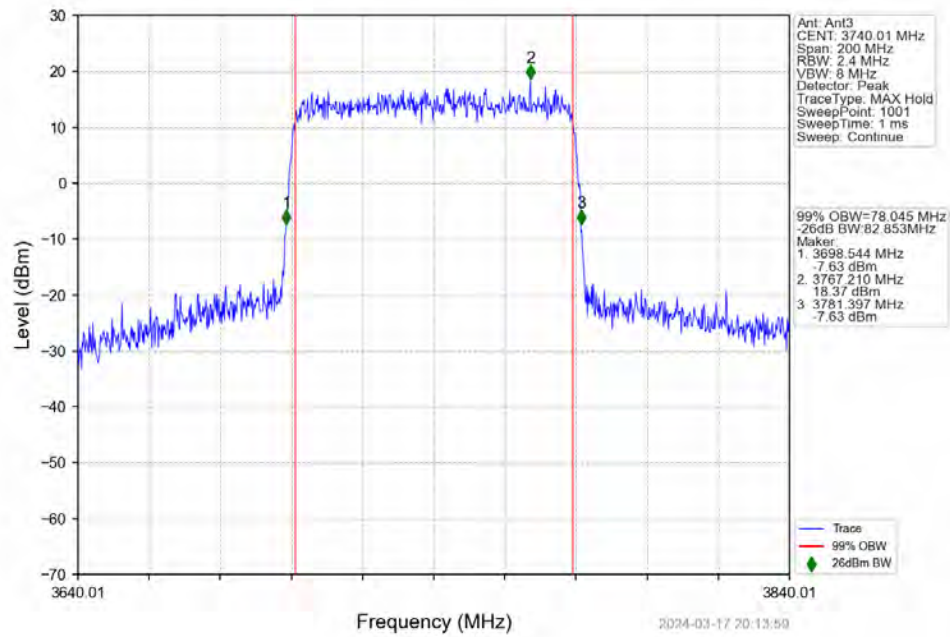
n78a 30kHz SISO NTN 80MHz CP-OFDM QPSK 3750MHz Outer Full



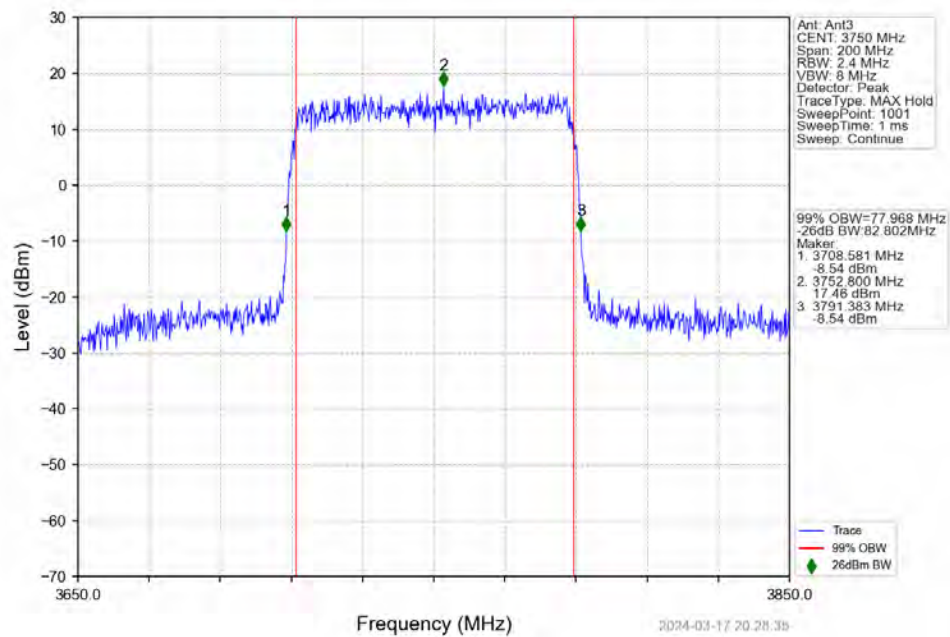
n78a 30kHz SISO NTN 80MHz CP-OFDM QPSK 3759.99MHz Outer Full



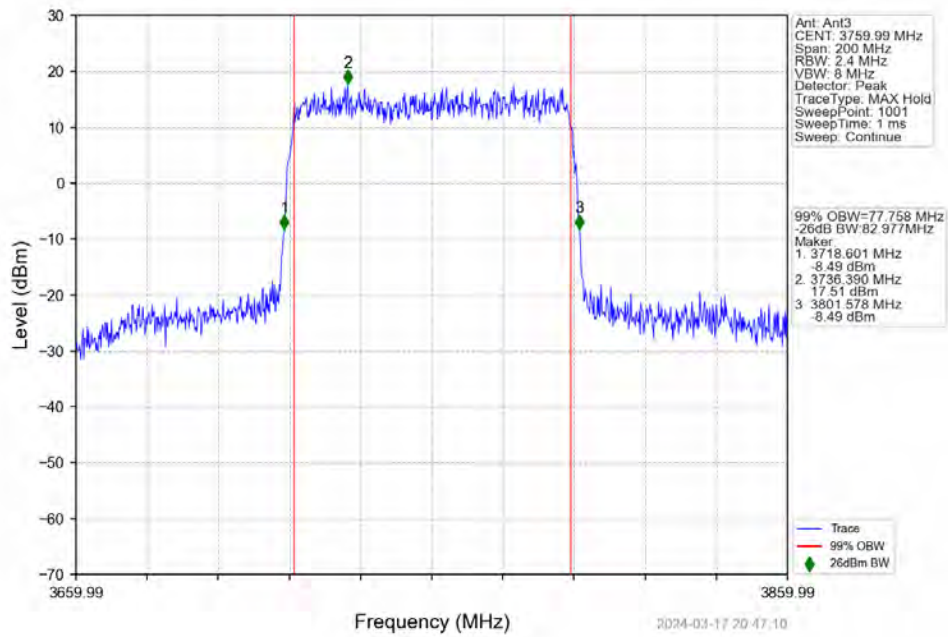
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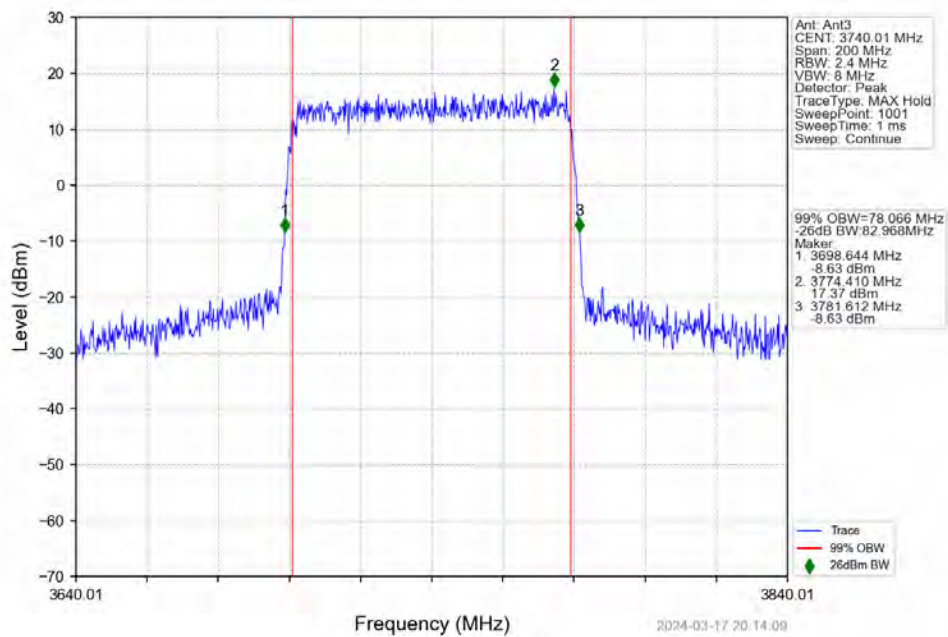
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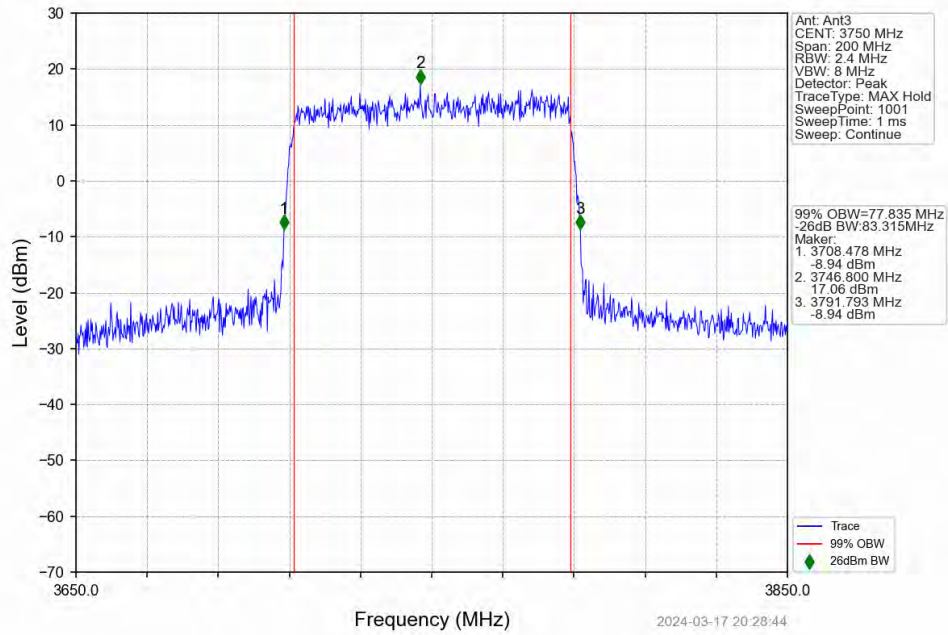
n78a 30kHz SISO NTN 80MHz CP-OFDM 16 QAM 3759.99MHz Outer Full



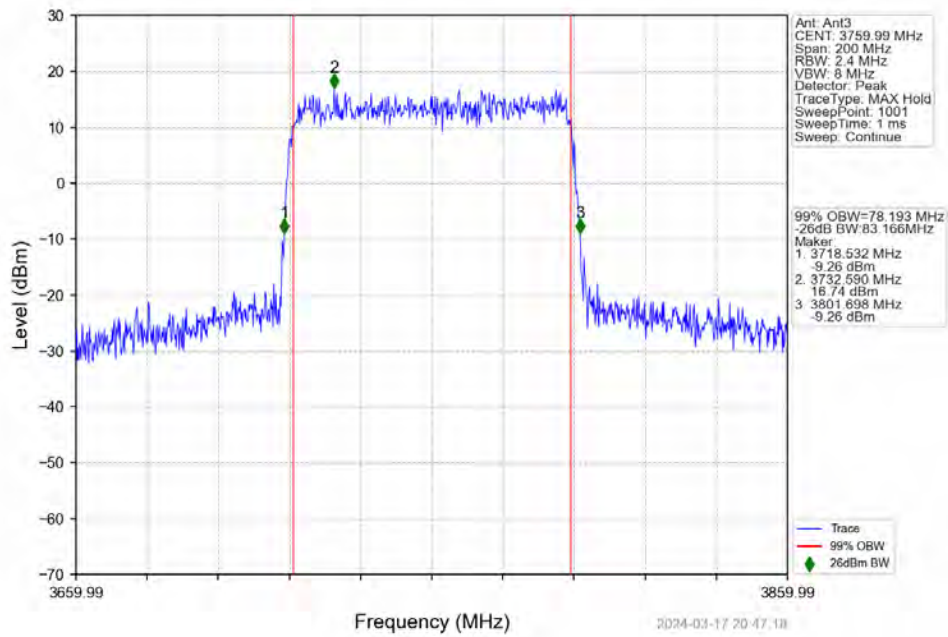
n78a 30kHz SISO NTN 80MHz CP-OFDM 64 QAM 3740.01MHz Outer Full



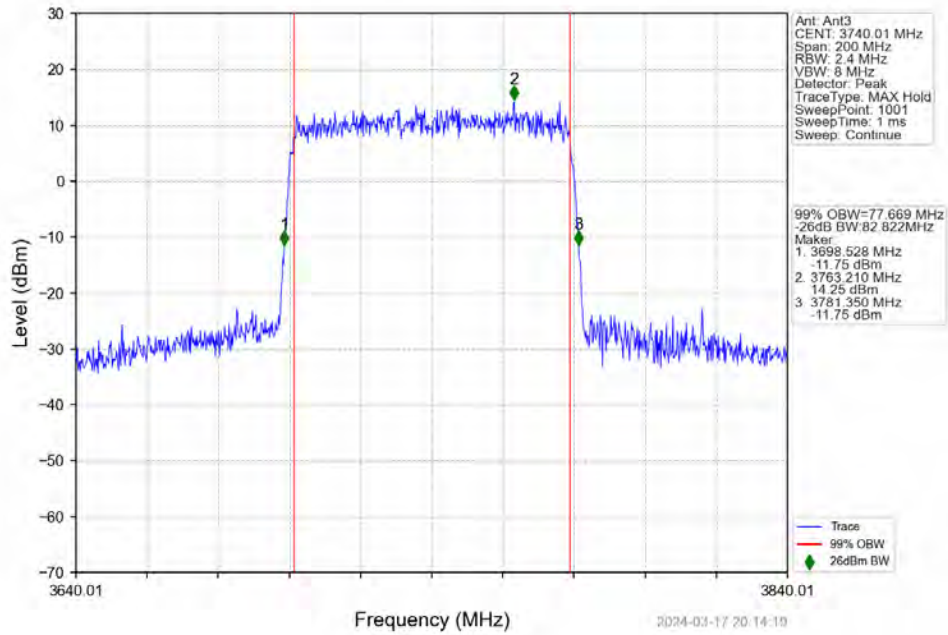
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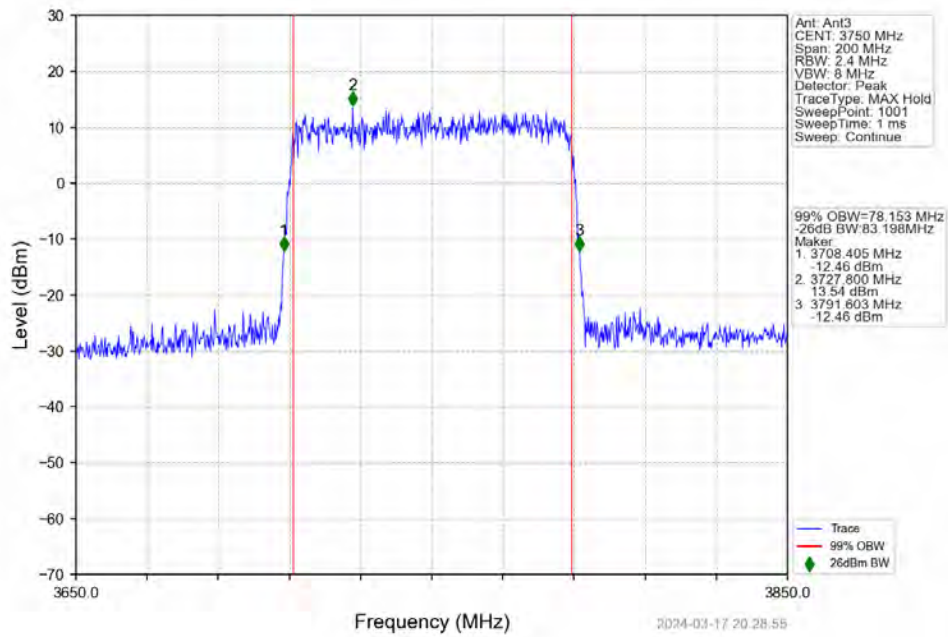
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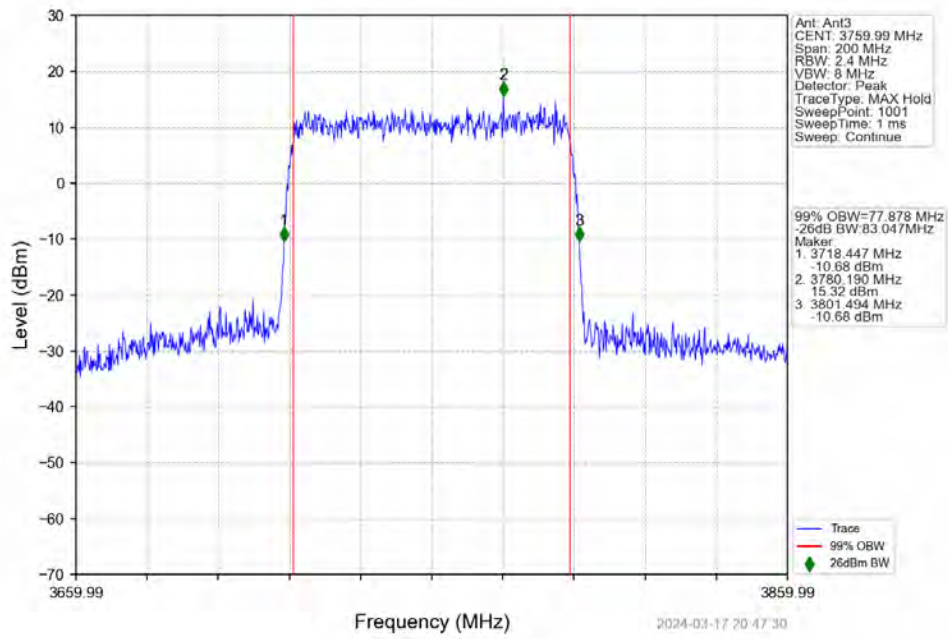
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n78a 30kHz SISO NTN 80MHz CP-OFDM 256 QAM 3750MHz Outer Full



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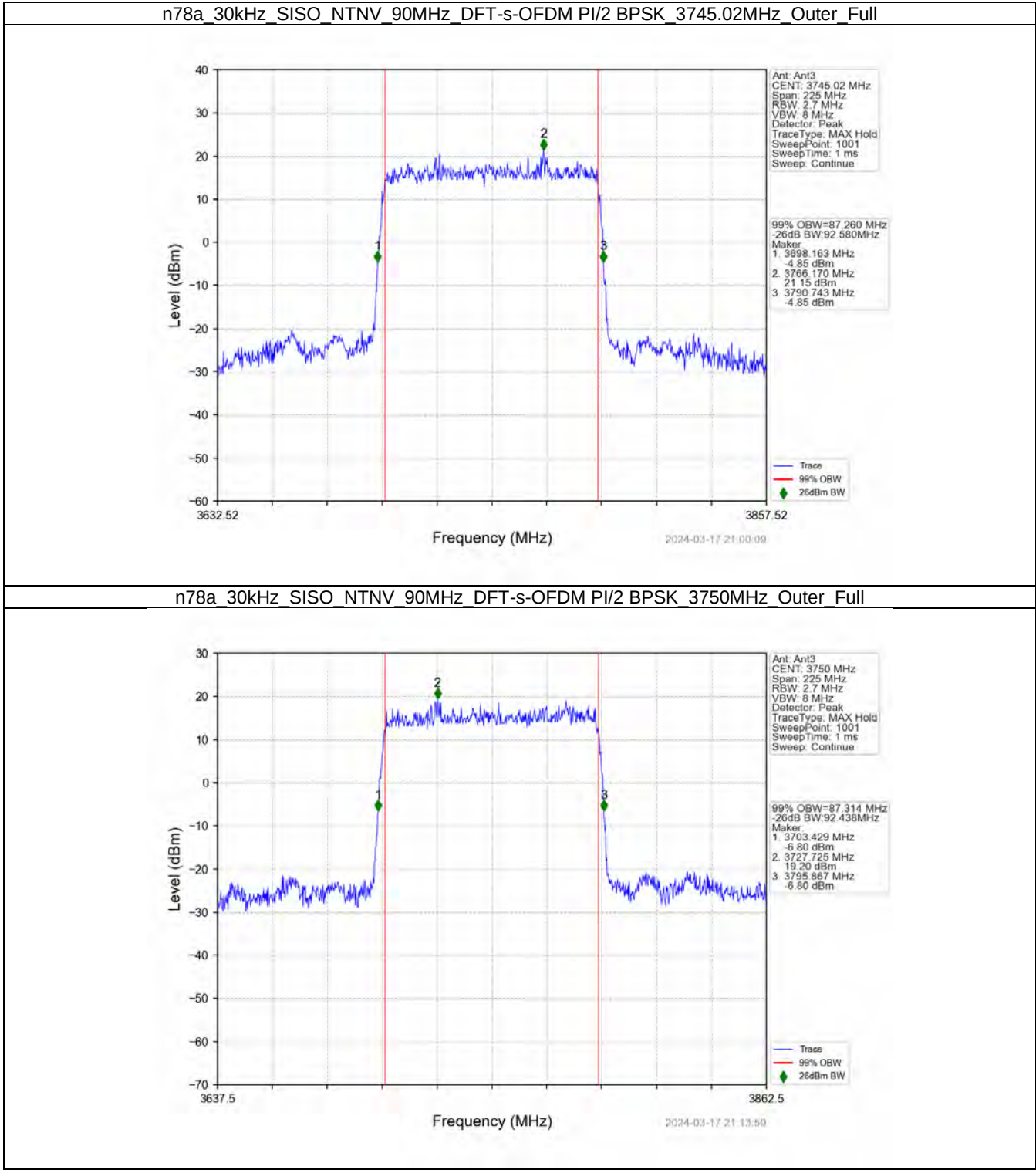


3.8 30k_SISO_90MHz_NTNV

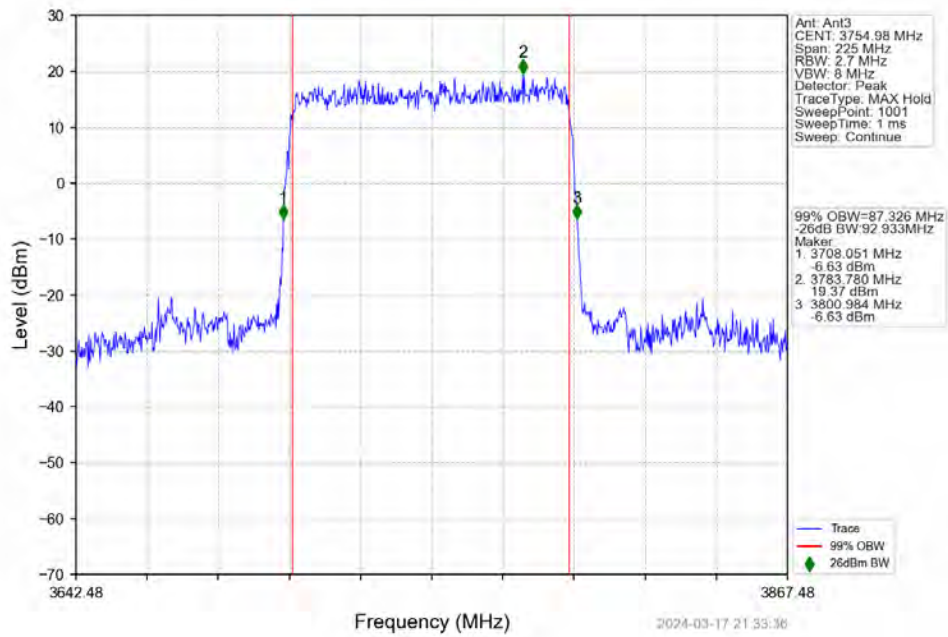
3.8.1 Test Result

5G NR n78a SCS=30kHz SISO 90MHz NTNv						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3745.02	Outer_Full	87.26	92.58	/	Pass
	3750	Outer_Full	87.31	92.44	/	Pass
	3754.98	Outer_Full	87.33	92.93	/	Pass
DFT-s-OFDM QPSK	3745.02	Outer_Full	87.44	93.05	/	Pass
	3750	Outer_Full	87.28	93.08	/	Pass
	3754.98	Outer_Full	87.46	93.02	/	Pass
DFT-s-OFDM 16 QAM	3745.02	Outer_Full	87.39	93.27	/	Pass
	3750	Outer_Full	87.38	92.48	/	Pass
	3754.98	Outer_Full	87.07	92.87	/	Pass
DFT-s-OFDM 64 QAM	3745.02	Outer_Full	87.51	93.19	/	Pass
	3750	Outer_Full	87.36	92.74	/	Pass
	3754.98	Outer_Full	87.39	92.97	/	Pass
DFT-s-OFDM 256 QAM	3745.02	Outer_Full	87.16	92.90	/	Pass
	3750	Outer_Full	86.85	92.64	/	Pass
	3754.98	Outer_Full	87.39	92.62	/	Pass
CP-OFDM QPSK	3745.02	Outer_Full	88.07	93.73	/	Pass
	3750	Outer_Full	87.66	93.74	/	Pass
	3754.98	Outer_Full	88.24	93.72	/	Pass
CP-OFDM 16 QAM	3745.02	Outer_Full	87.99	93.67	/	Pass
	3750	Outer_Full	87.98	92.95	/	Pass
	3754.98	Outer_Full	87.77	93.50	/	Pass
CP-OFDM 64 QAM	3745.02	Outer_Full	88.07	93.68	/	Pass
	3750	Outer_Full	88.19	93.72	/	Pass
	3754.98	Outer_Full	87.62	93.64	/	Pass
CP-OFDM 256 QAM	3745.02	Outer_Full	88.40	93.35	/	Pass
	3750	Outer_Full	87.96	93.54	/	Pass
	3754.98	Outer_Full	88.18	93.19	/	Pass

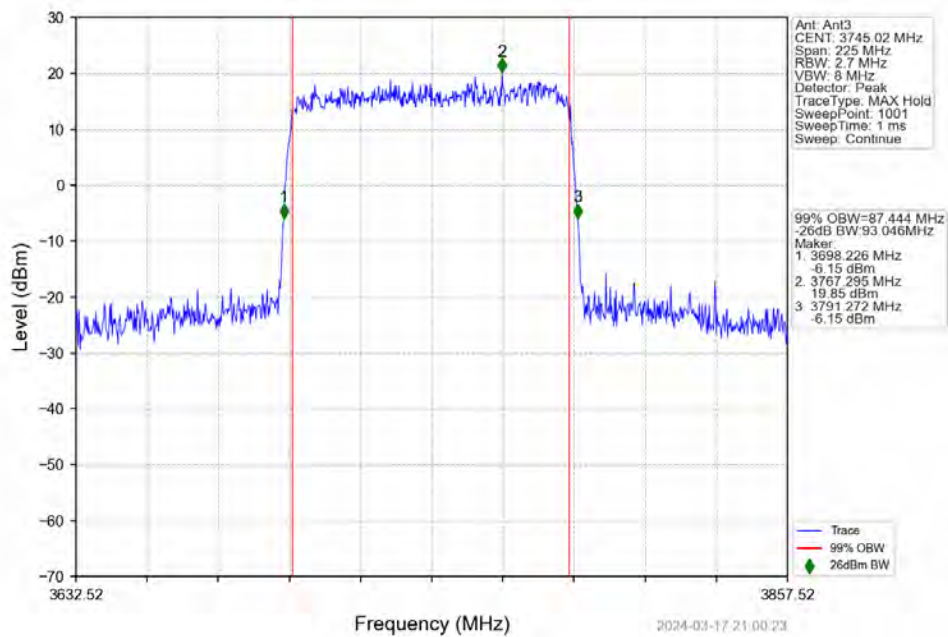
3.8.2 Test Graph



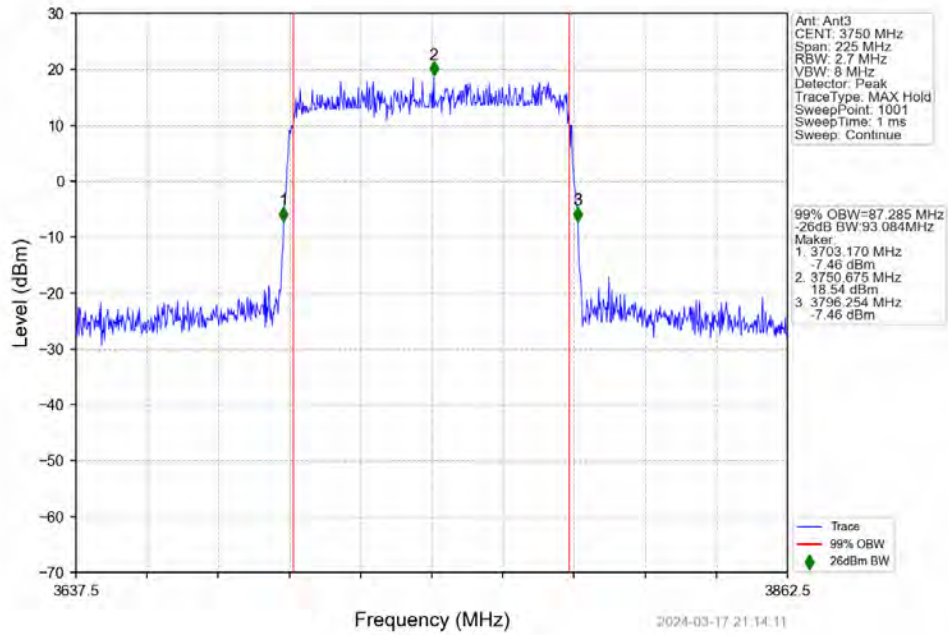
n78a 30kHz SISO NTN 90MHz DFT-s-OFDM PI/2 BPSK 3754.98MHz Outer Full



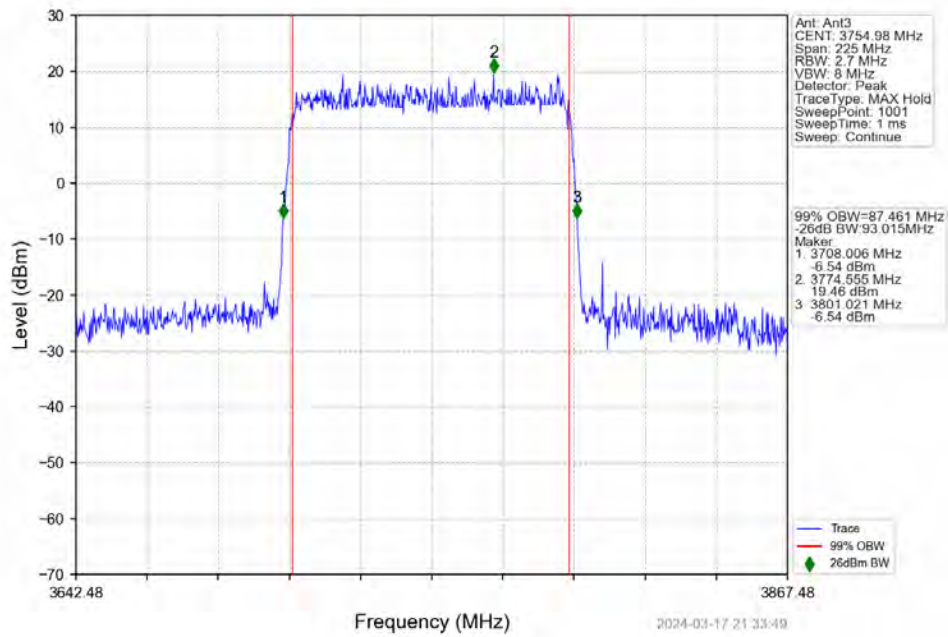
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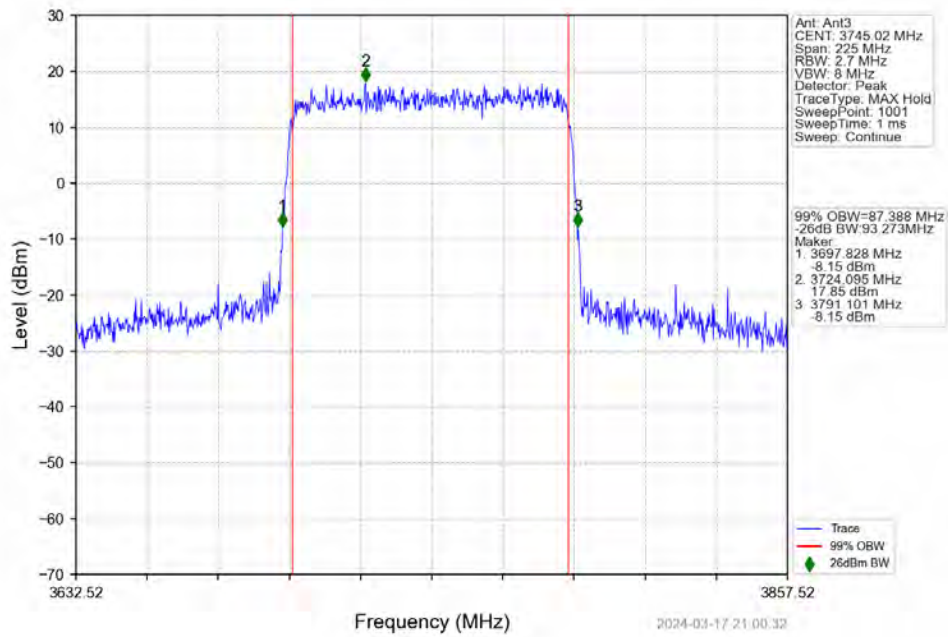
n78a 30kHz SISO NTN 90MHz DFT-s-OFDM QPSK 3750MHz Outer Full



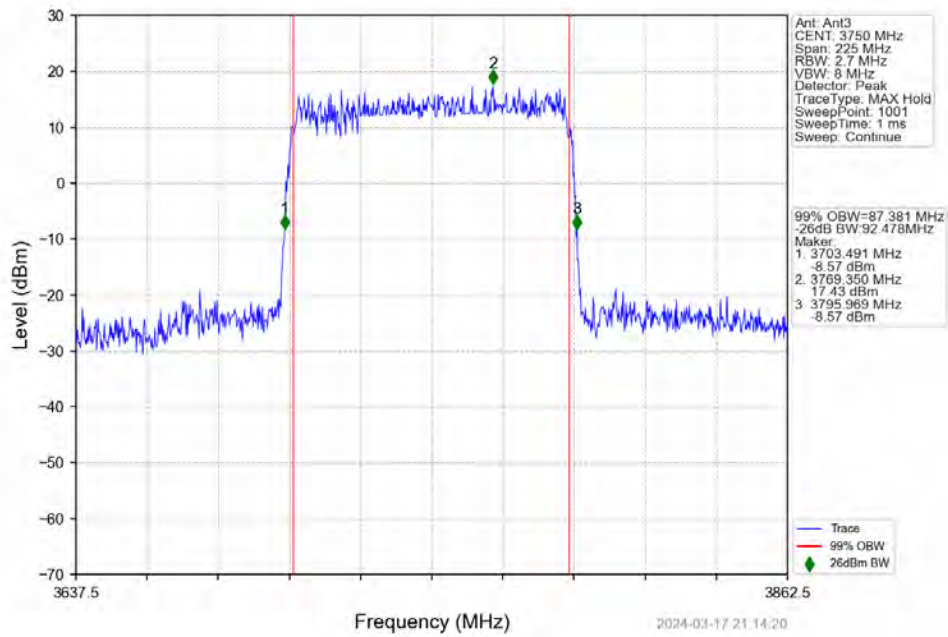
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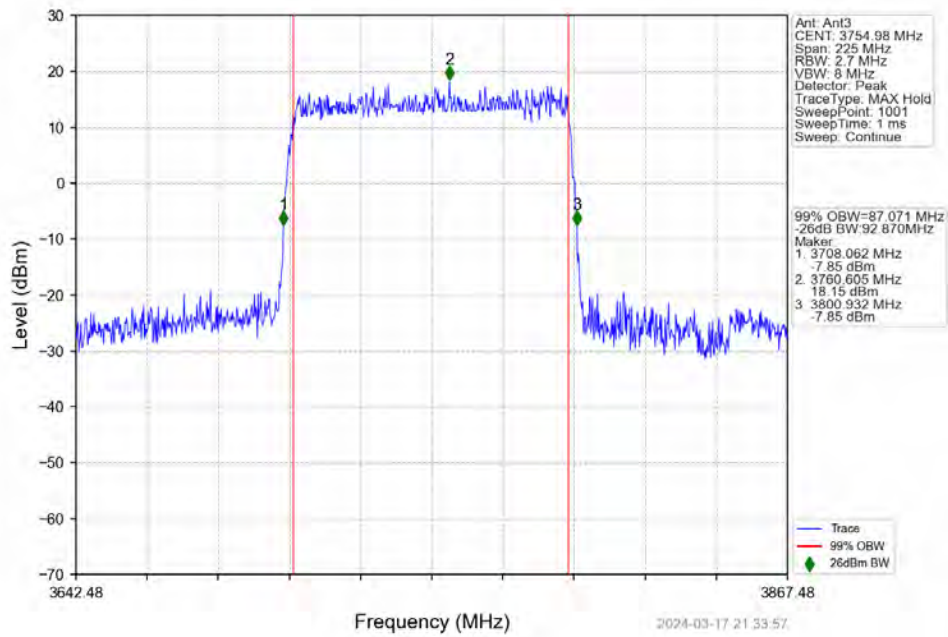
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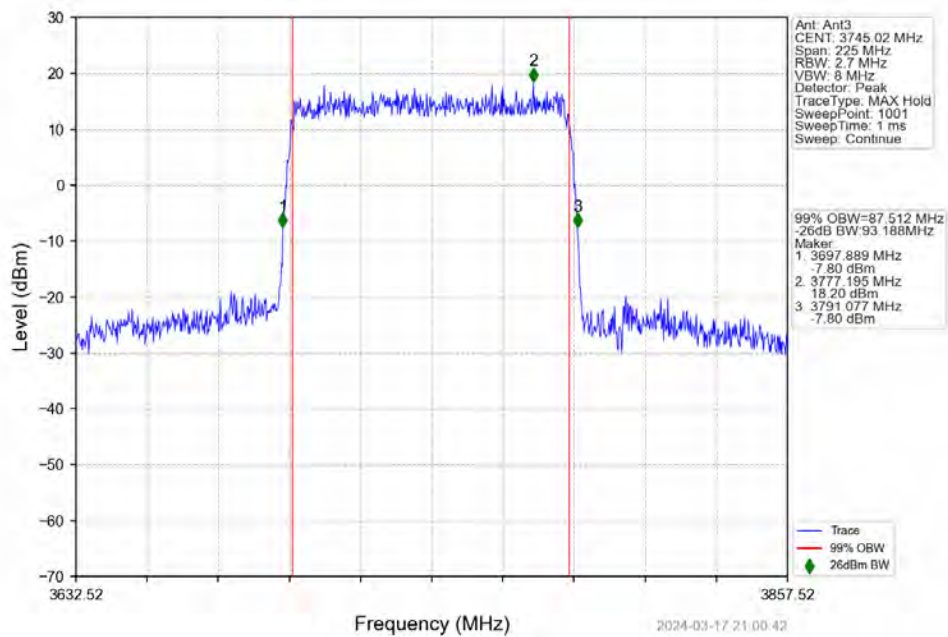
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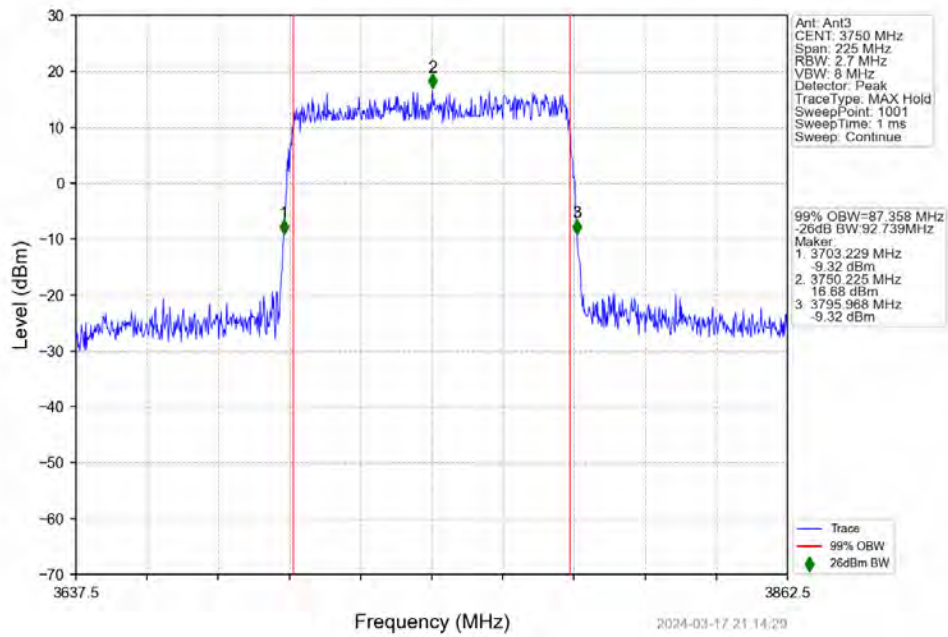
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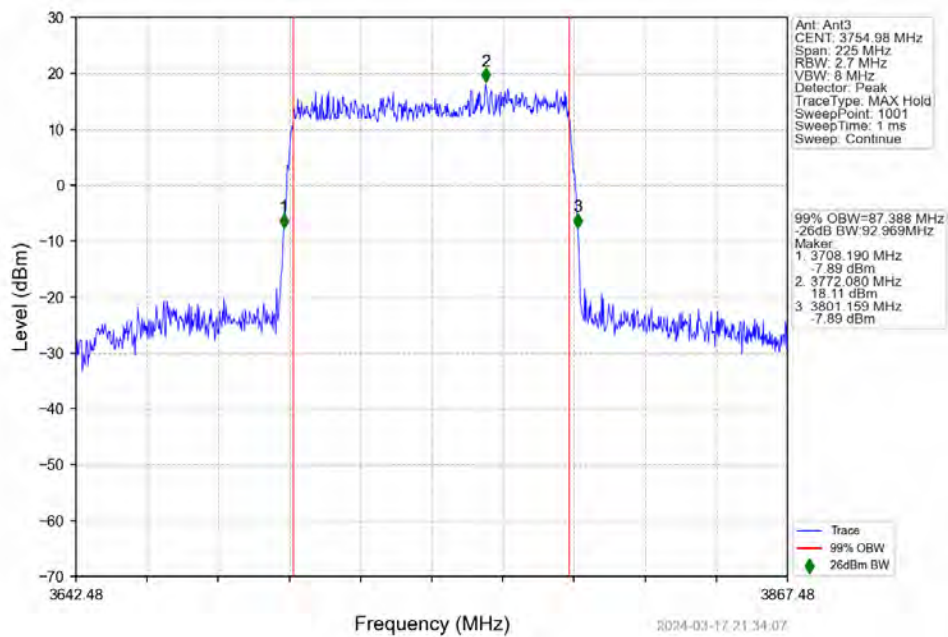
n78a 30kHz SISO NTN 90MHz DFT-s-OFDM 64 QAM 3745.02MHz Outer Full



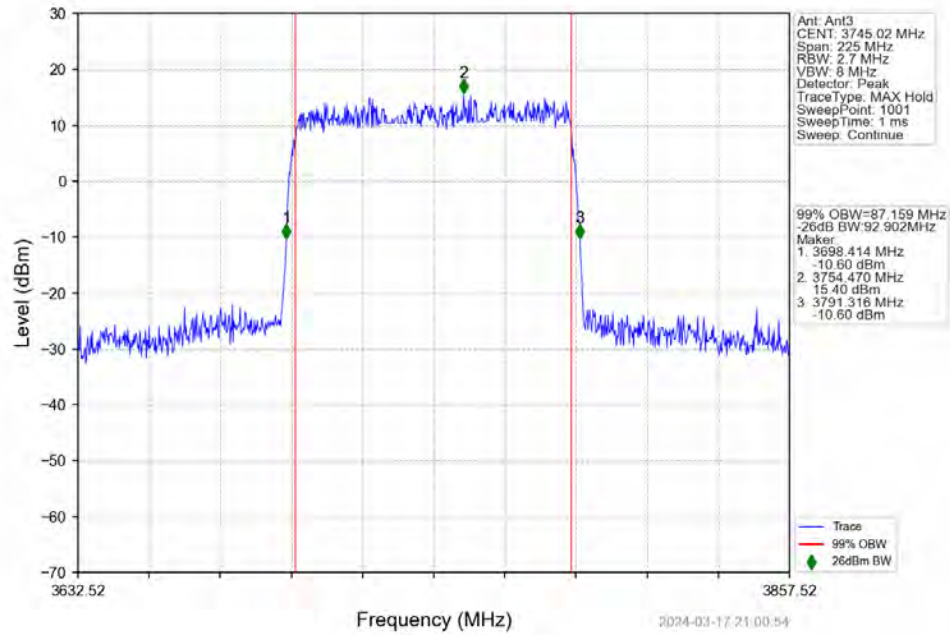
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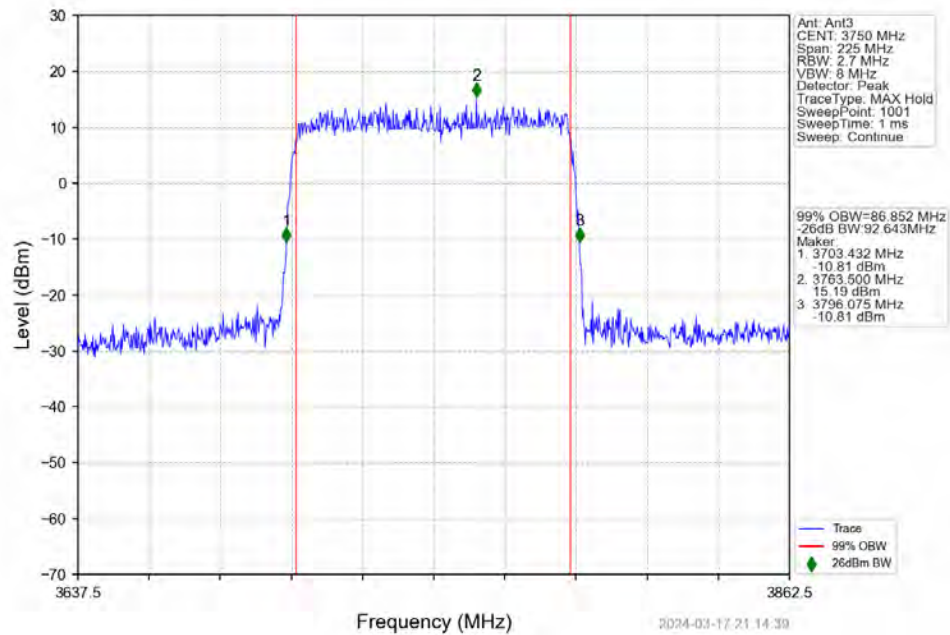
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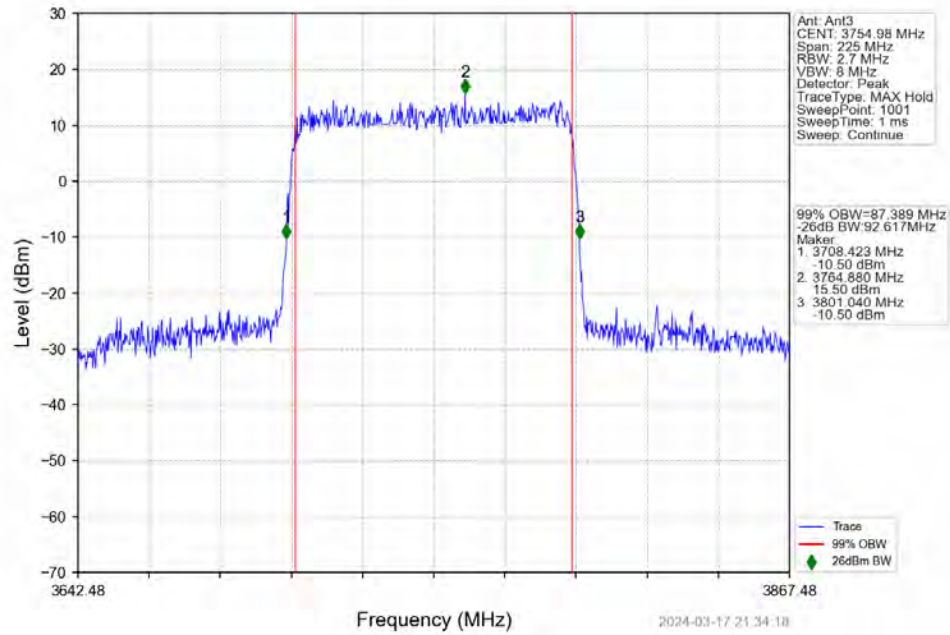
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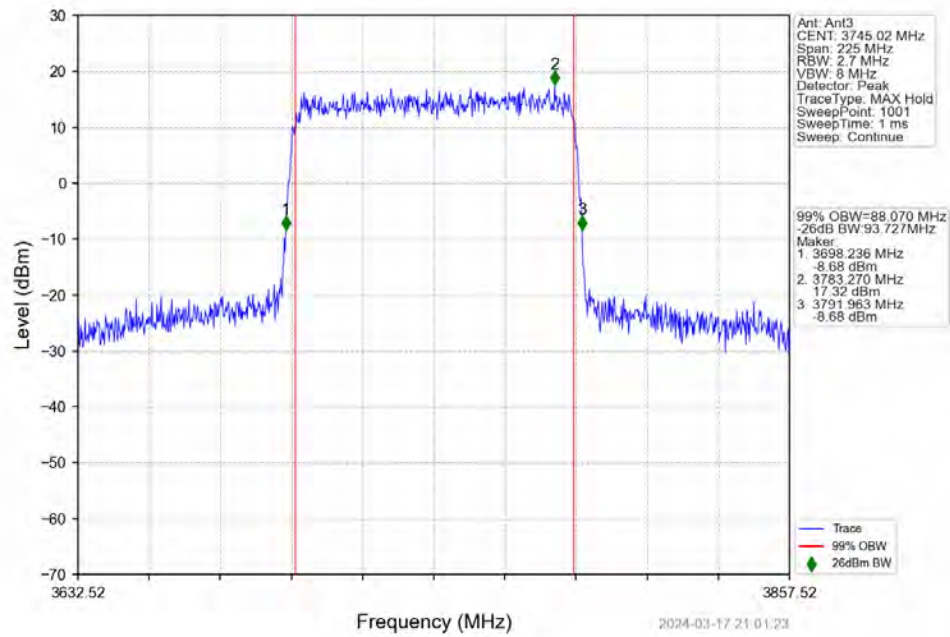
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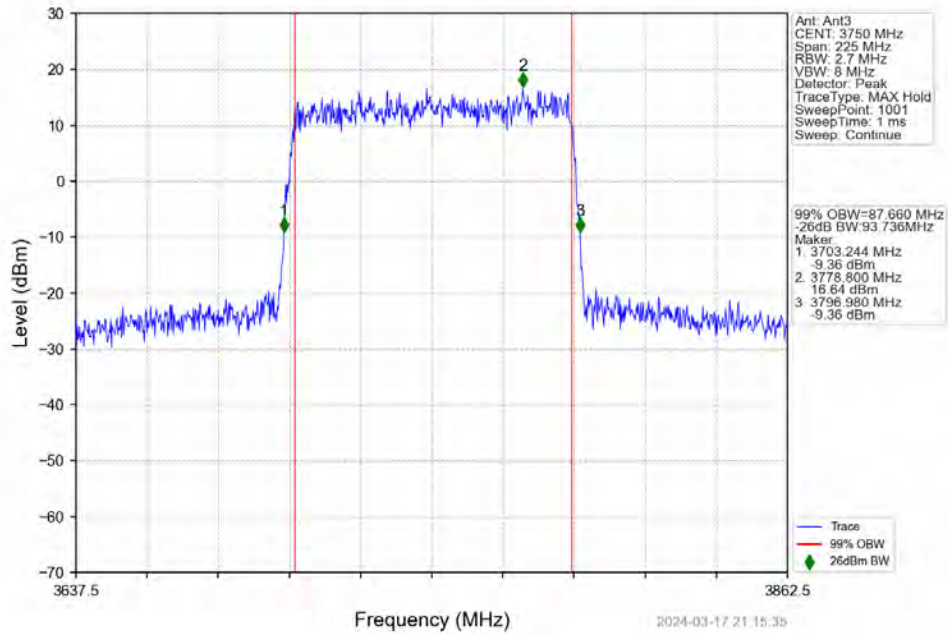
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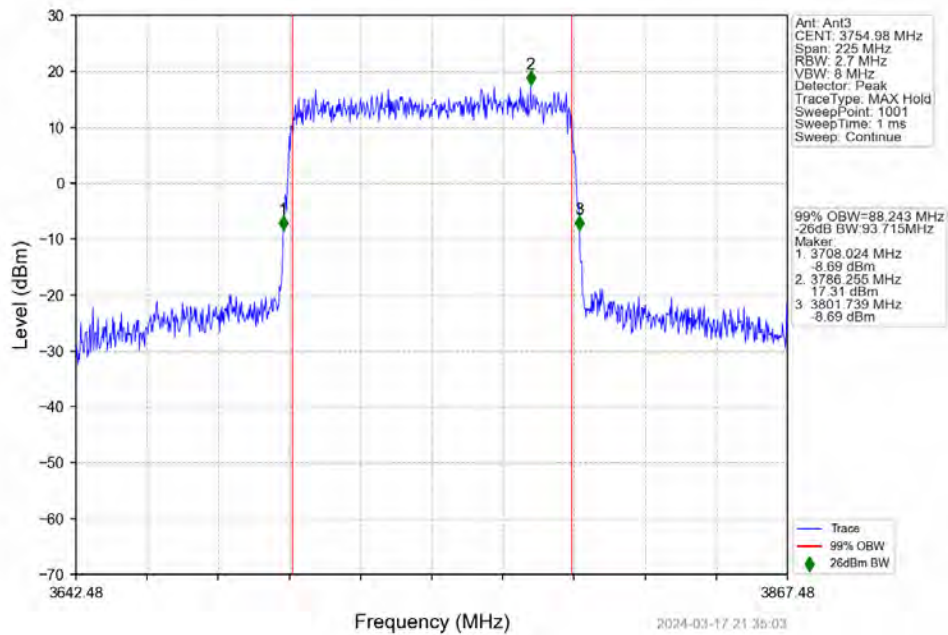
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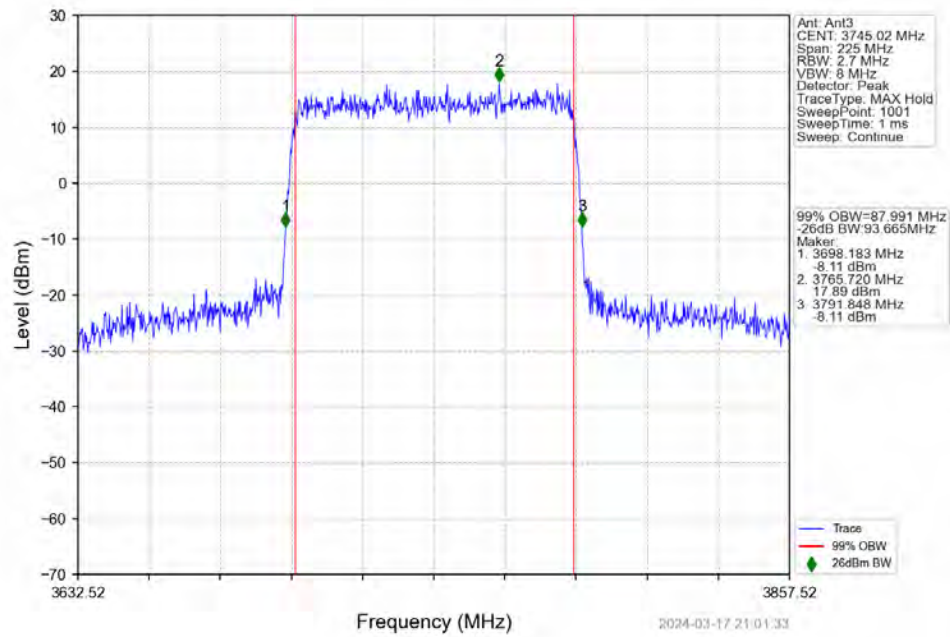
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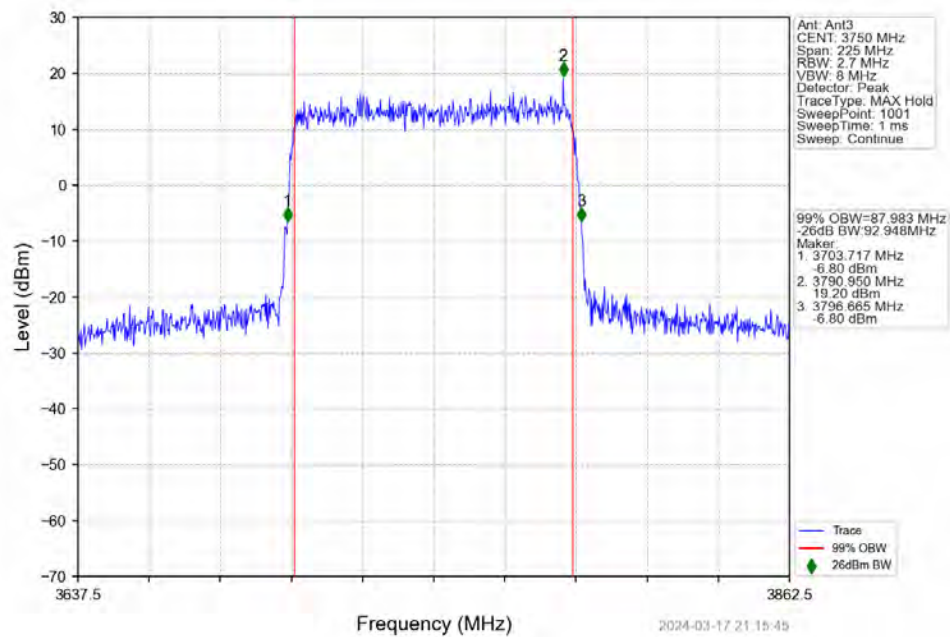
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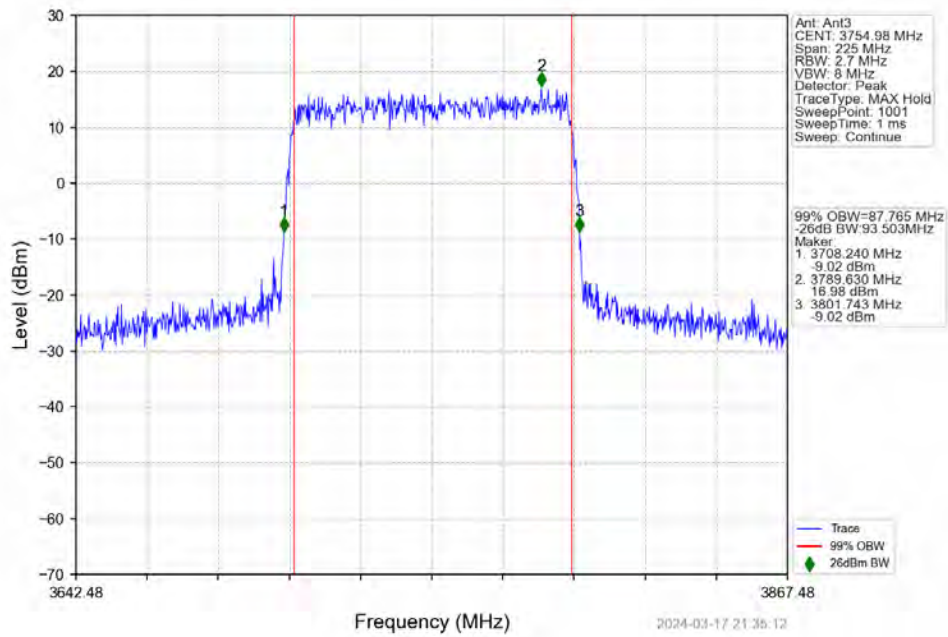
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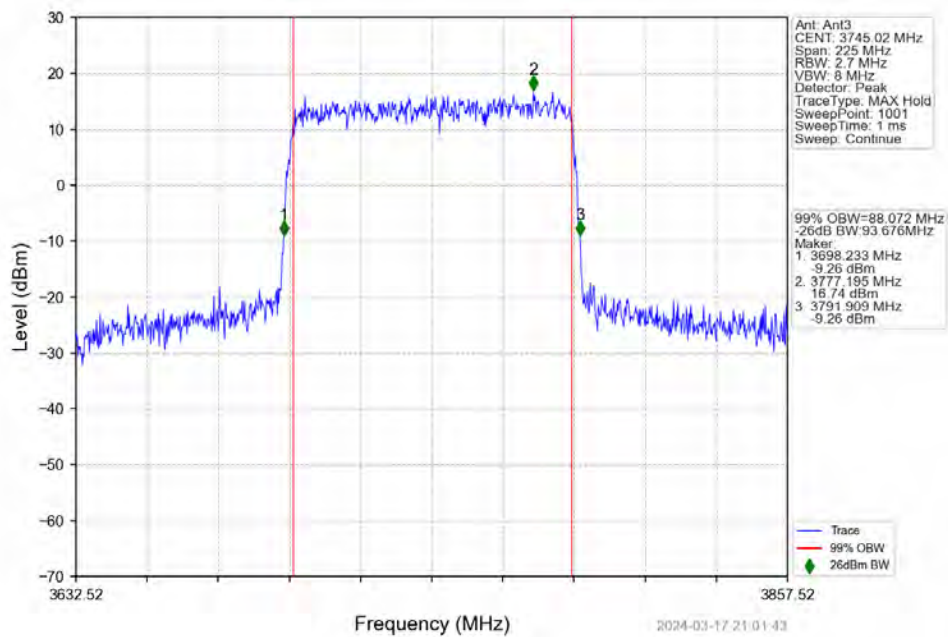
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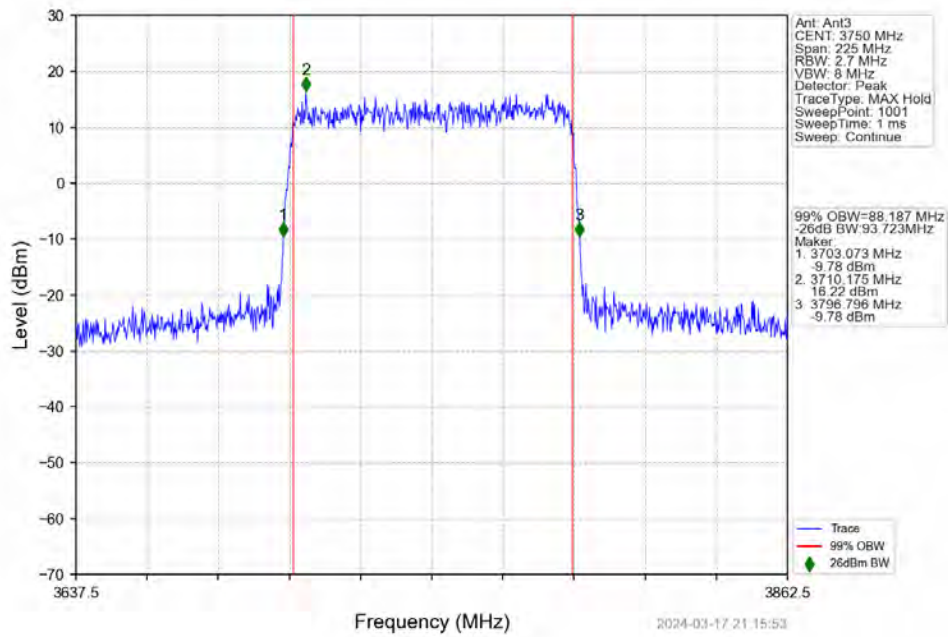
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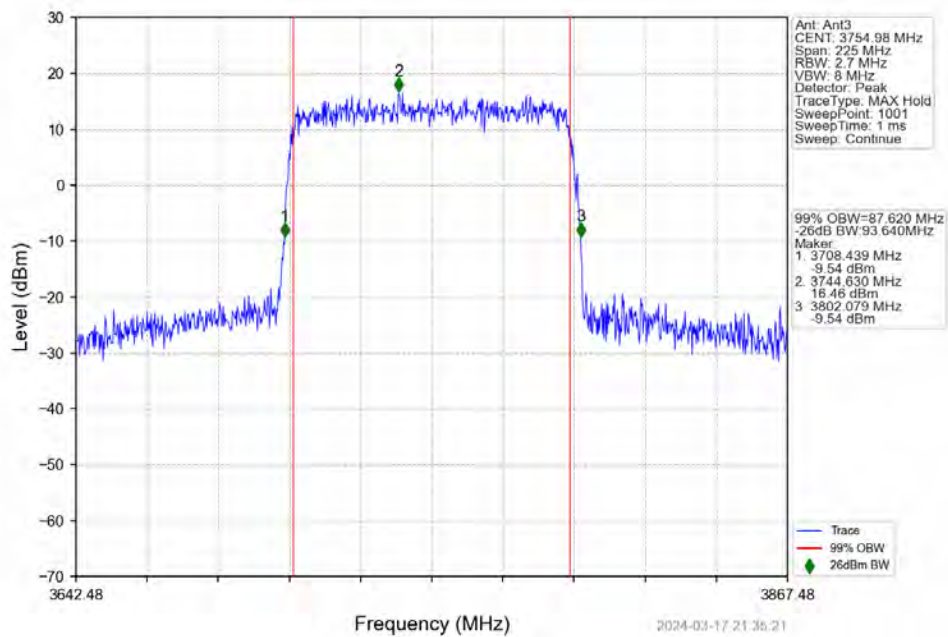
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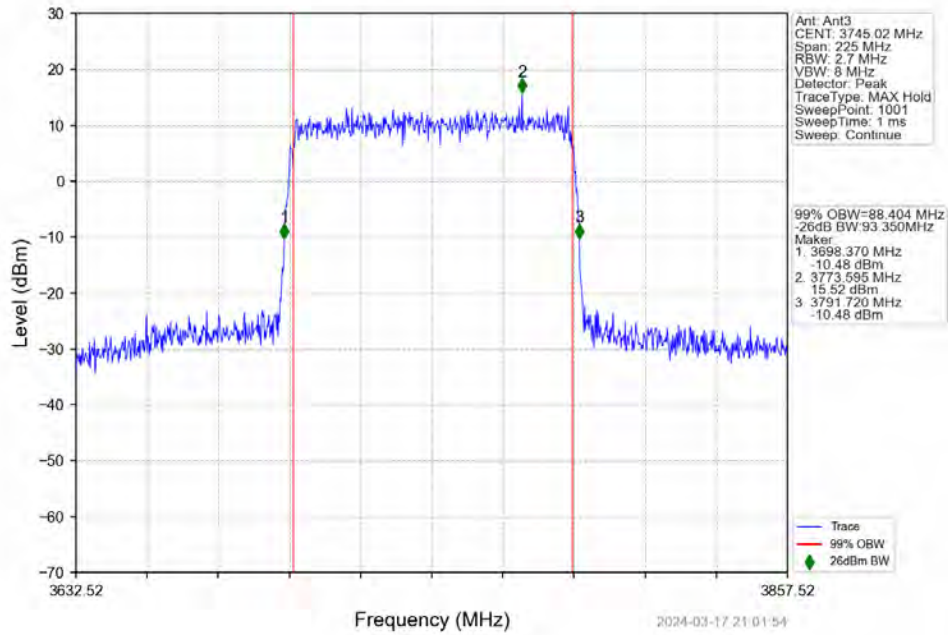
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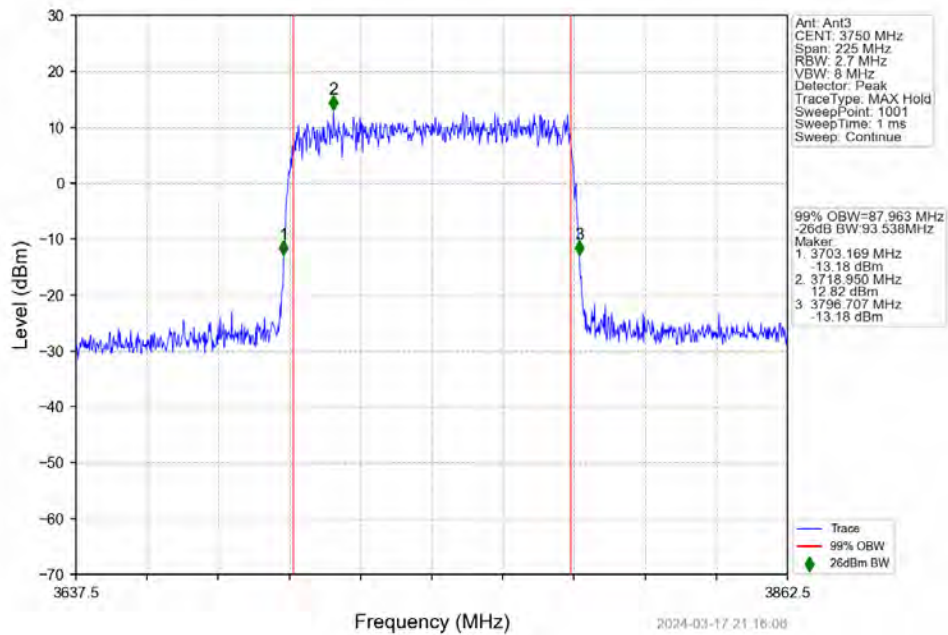
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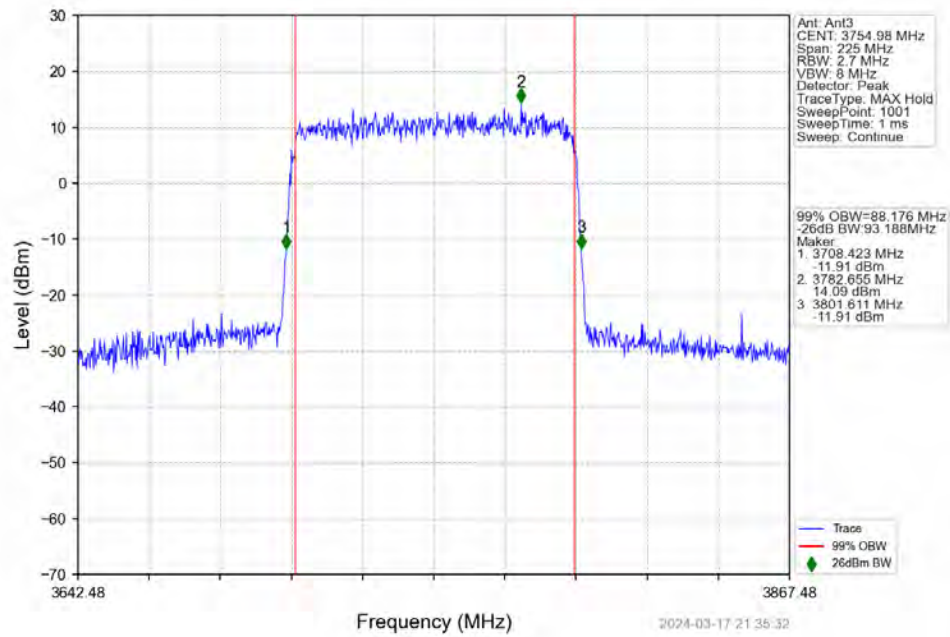
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n78a 30kHz SISO NTN 90MHz CP-OFDM 256 QAM 3750MHz Outer Full



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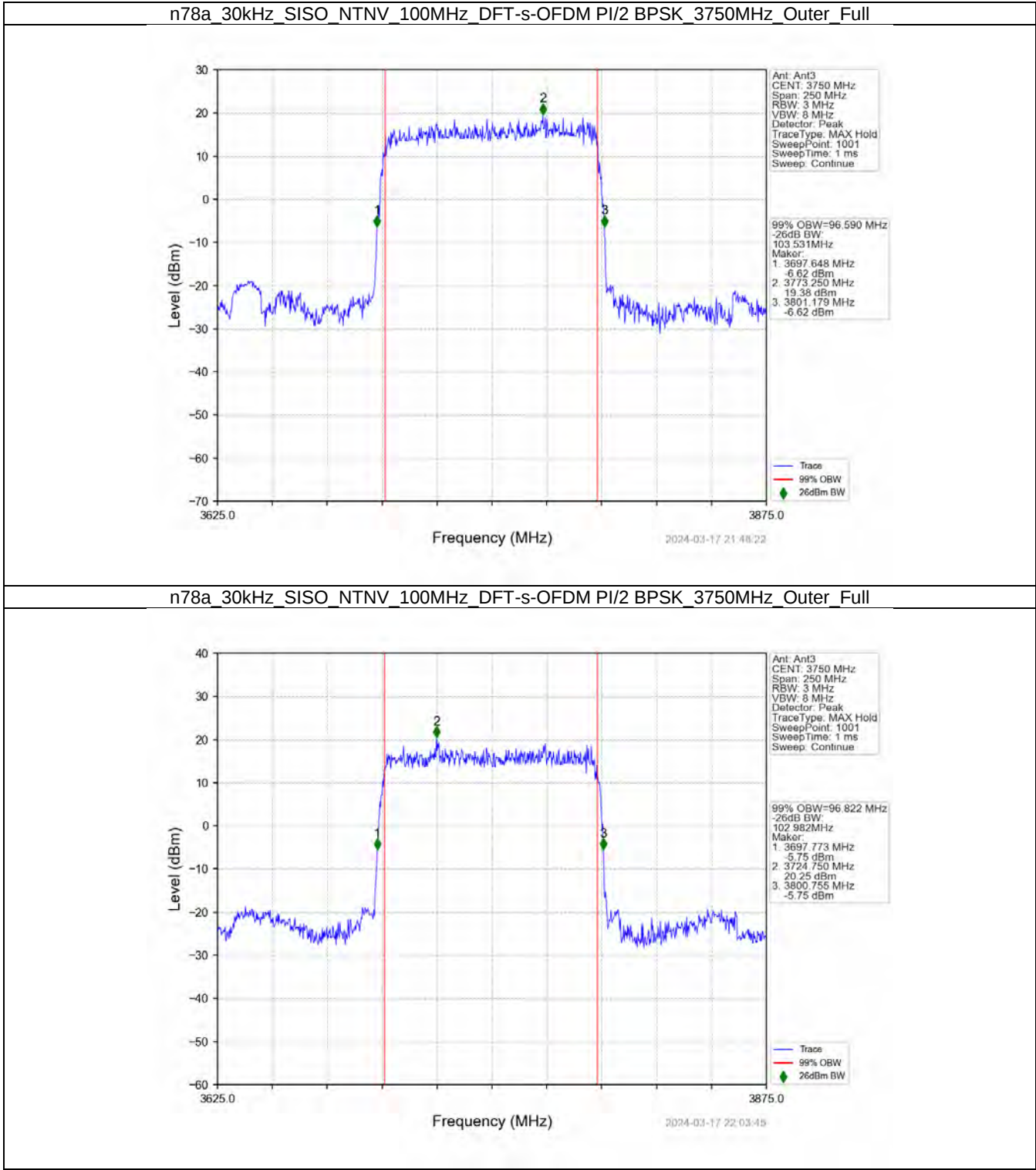


3.9 30k_SISO_100MHz_NTNV

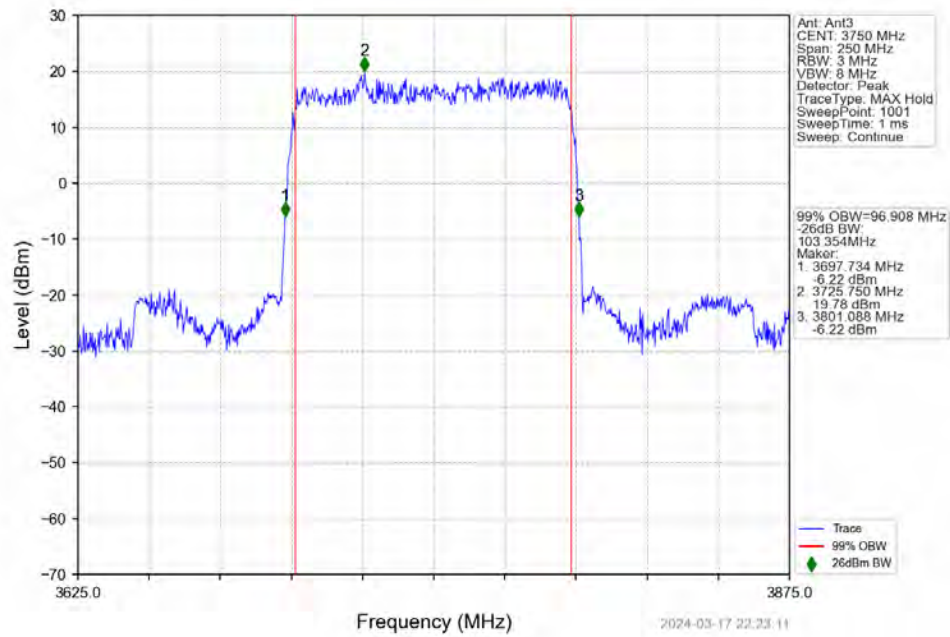
3.9.1 Test Result

5G NR n78a SCS=30kHz SISO 100MHz NTV						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3750	Outer_Full	96.59	103.53	/	Pass
	3750	Outer_Full	96.82	102.98	/	Pass
	3750	Outer_Full	96.91	103.35	/	Pass
DFT-s-OFDM QPSK	3750	Outer_Full	97.41	103.56	/	Pass
	3750	Outer_Full	97.00	103.34	/	Pass
	3750	Outer_Full	56.71	59.76	/	Pass
DFT-s-OFDM 16 QAM	3750	Outer_Full	96.82	102.57	/	Pass
	3750	Outer_Full	97.49	103.27	/	Pass
	3750	Outer_Full	97.13	102.84	/	Pass
DFT-s-OFDM 64 QAM	3750	Outer_Full	96.94	103.23	/	Pass
	3750	Outer_Full	97.39	103.35	/	Pass
	3750	Outer_Full	97.02	103.60	/	Pass
DFT-s-OFDM 256 QAM	3750	Outer_Full	97.06	103.42	/	Pass
	3750	Outer_Full	97.28	102.97	/	Pass
	3750	Outer_Full	97.27	103.48	/	Pass
CP-OFDM QPSK	3750	Outer_Full	97.70	104.38	/	Pass
	3750	Outer_Full	98.18	104.60	/	Pass
	3750	Outer_Full	98.03	104.75	/	Pass
CP-OFDM 16 QAM	3750	Outer_Full	98.09	104.41	/	Pass
	3750	Outer_Full	97.92	104.48	/	Pass
	3750	Outer_Full	97.84	104.45	/	Pass
CP-OFDM 64 QAM	3750	Outer_Full	97.55	104.71	/	Pass
	3750	Outer_Full	98.08	104.32	/	Pass
	3750	Outer_Full	98.14	104.43	/	Pass
CP-OFDM 256 QAM	3750	Outer_Full	97.76	103.71	/	Pass
	3750	Outer_Full	97.59	104.09	/	Pass
	3750	Outer_Full	98.26	104.69	/	Pass

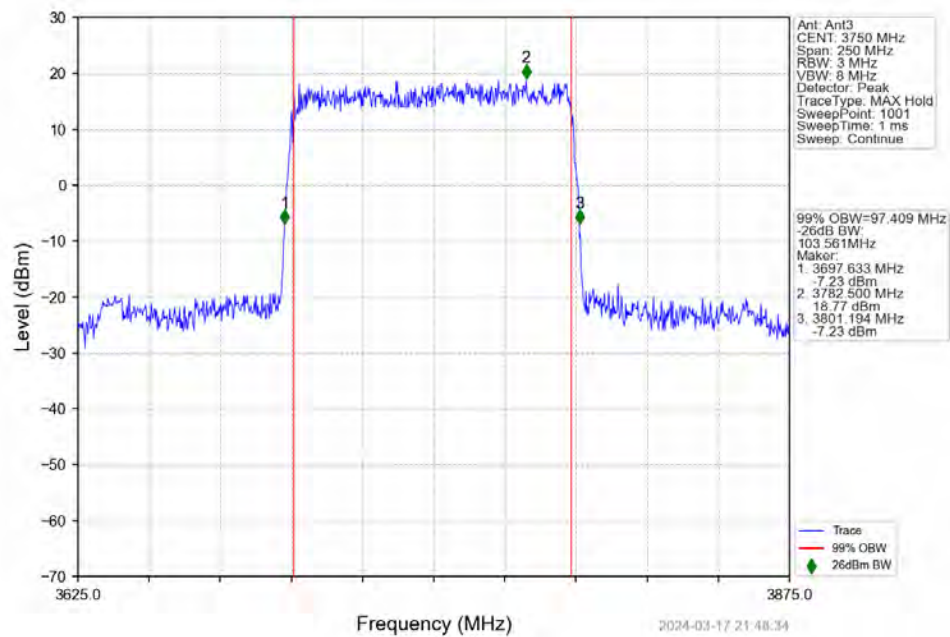
3.9.2 Test Graph



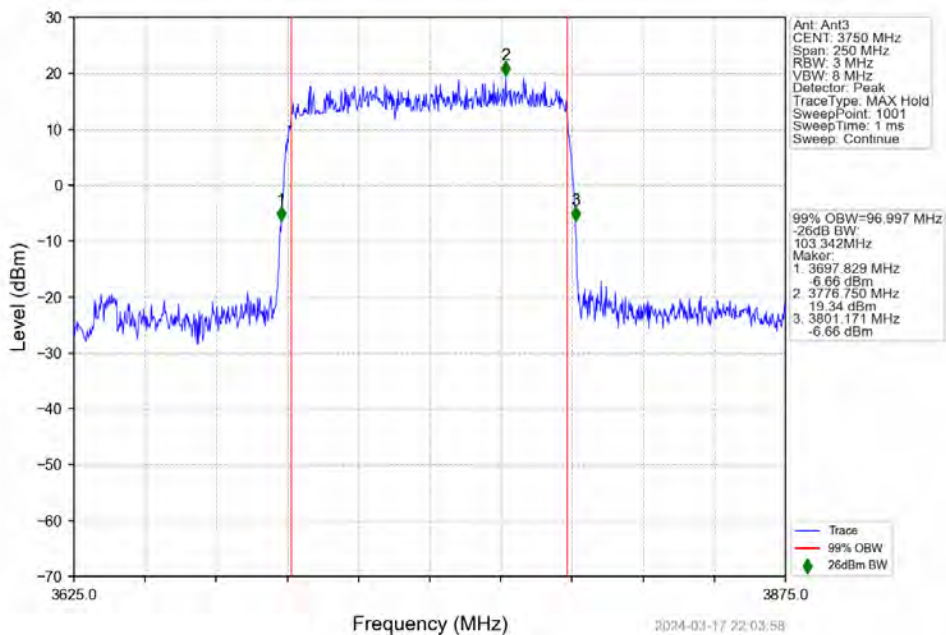
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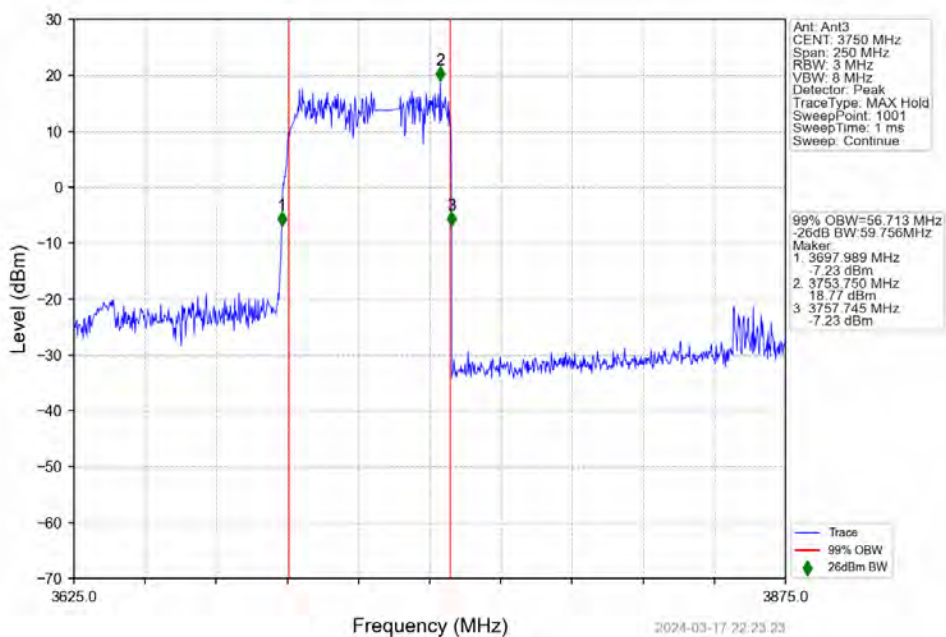
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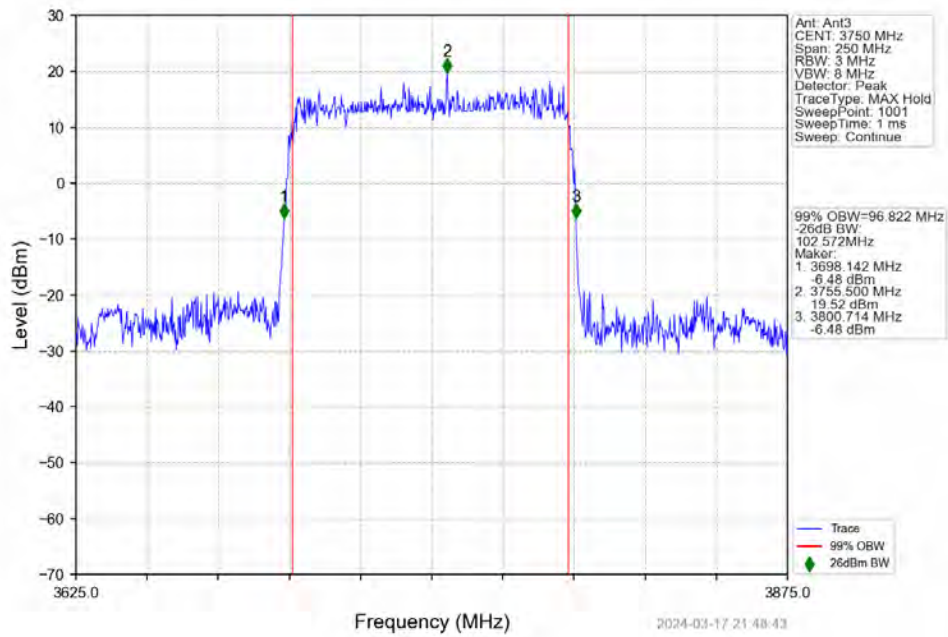
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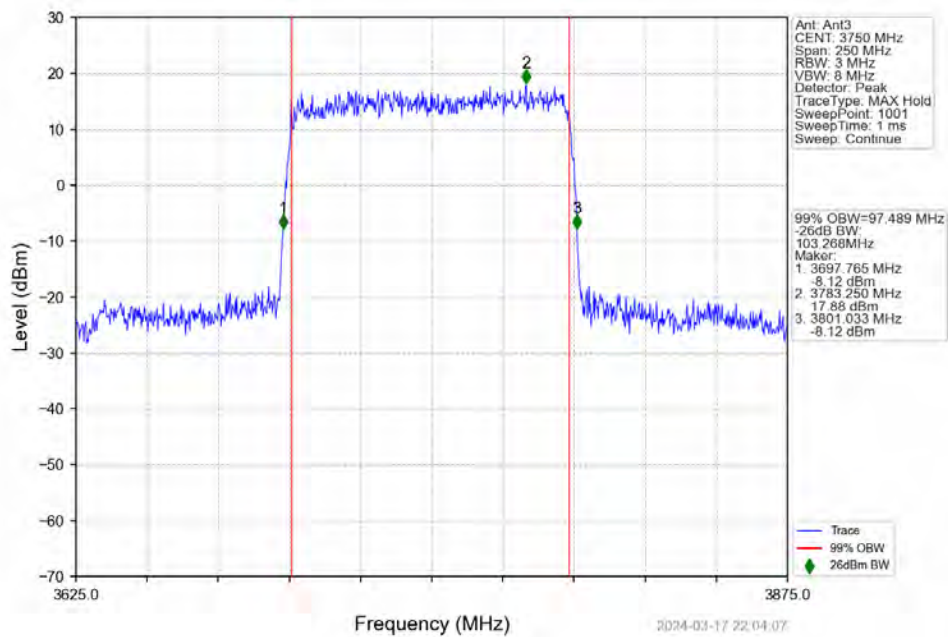
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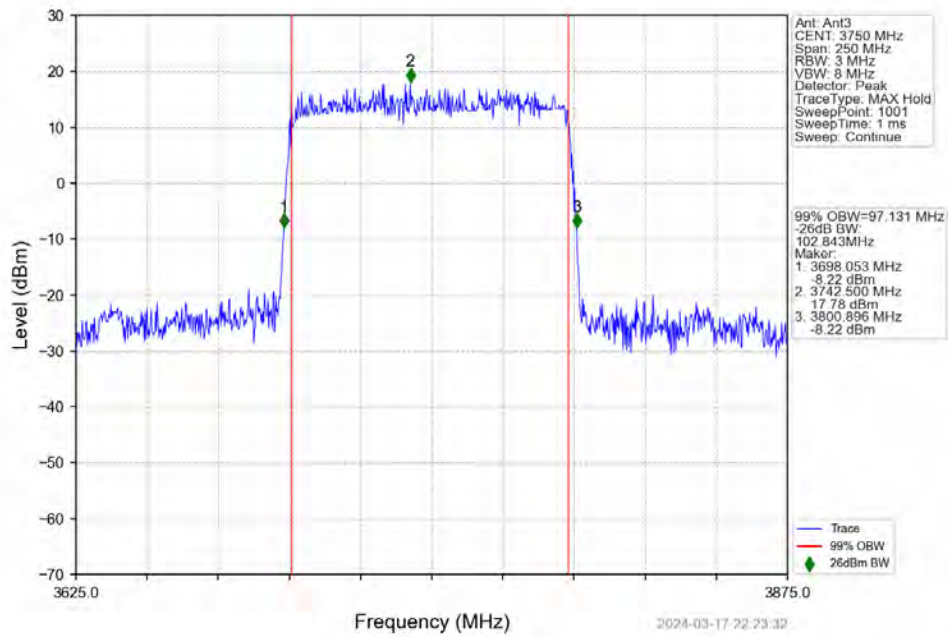
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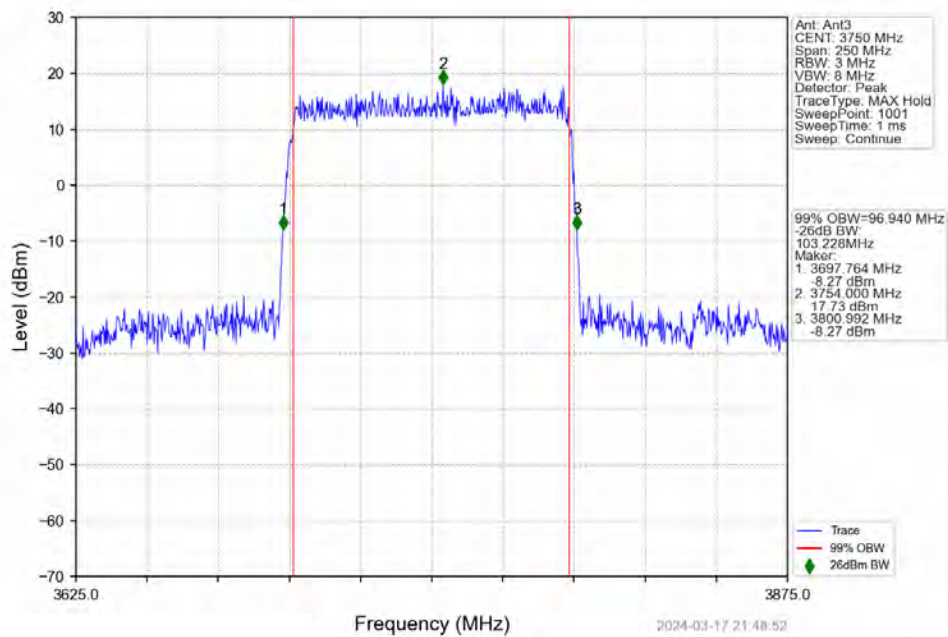
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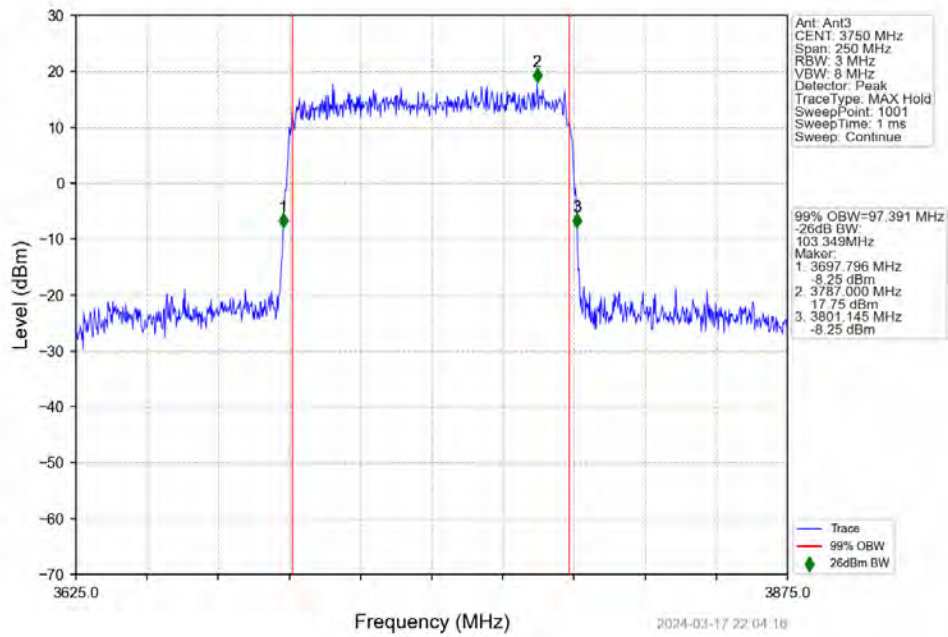
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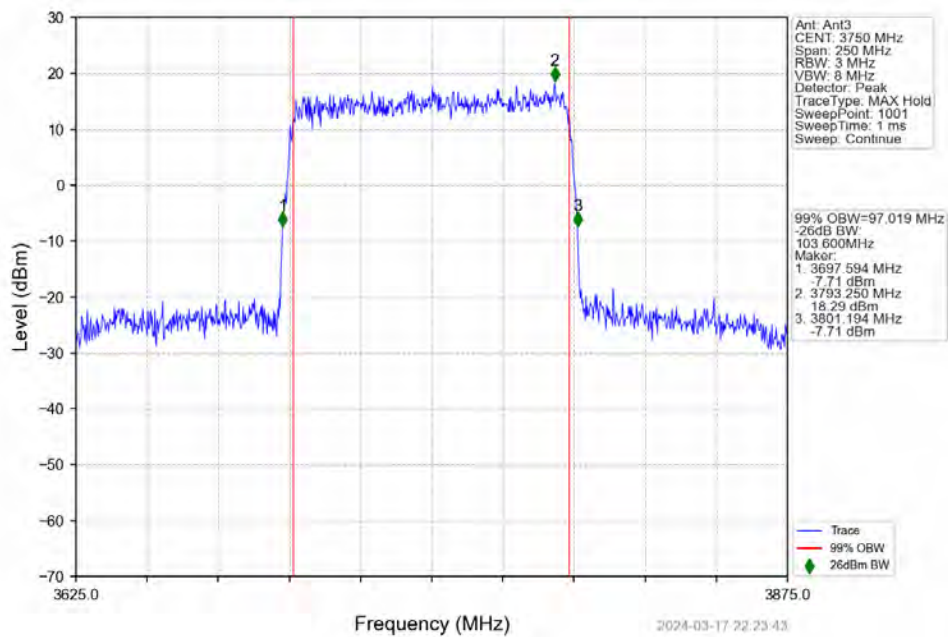
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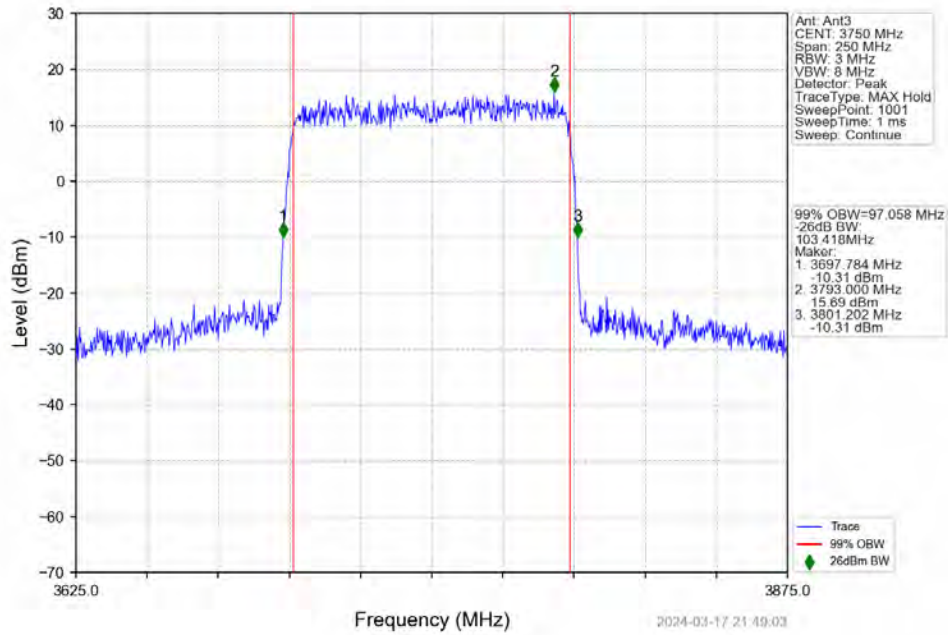
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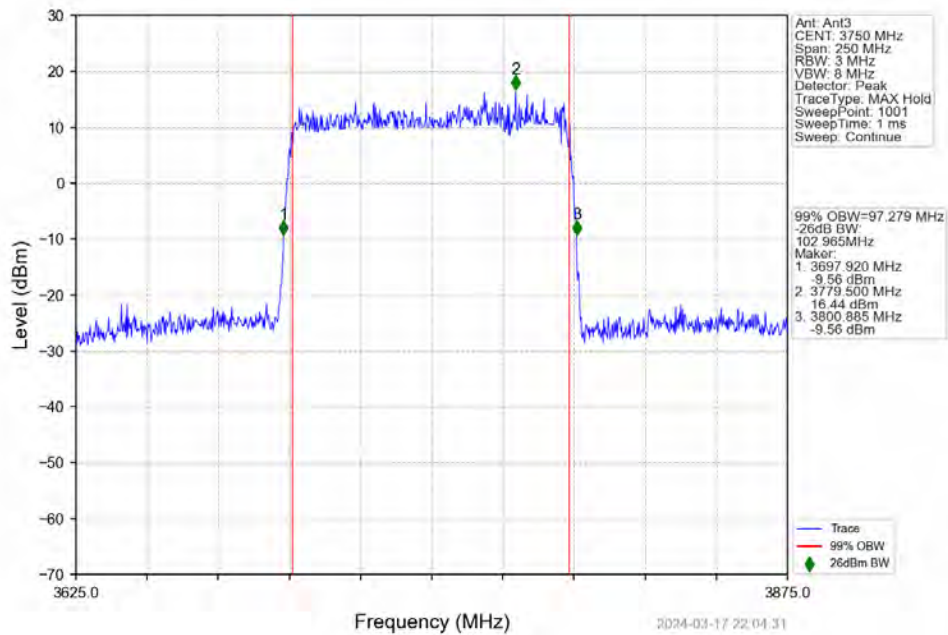
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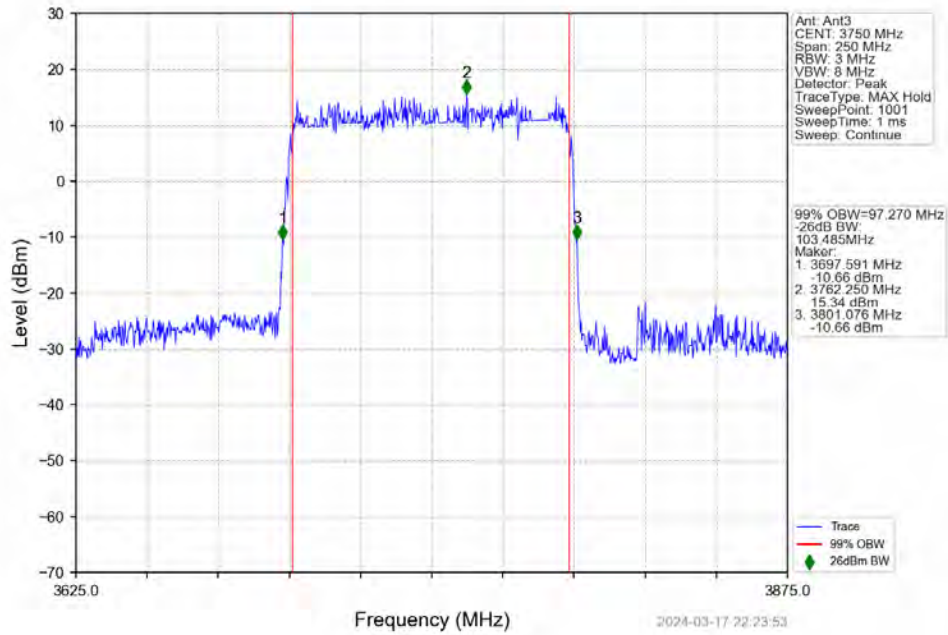
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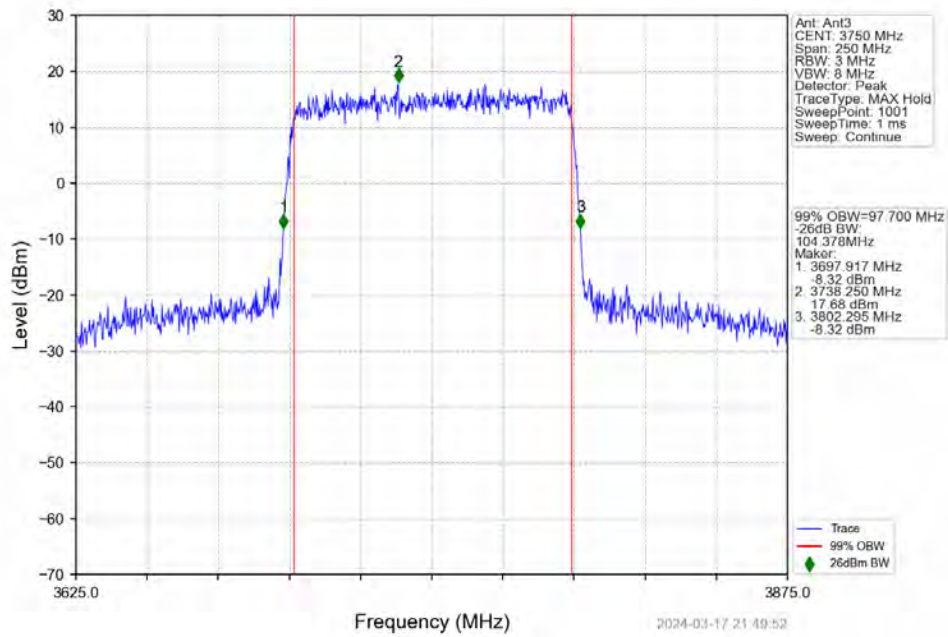
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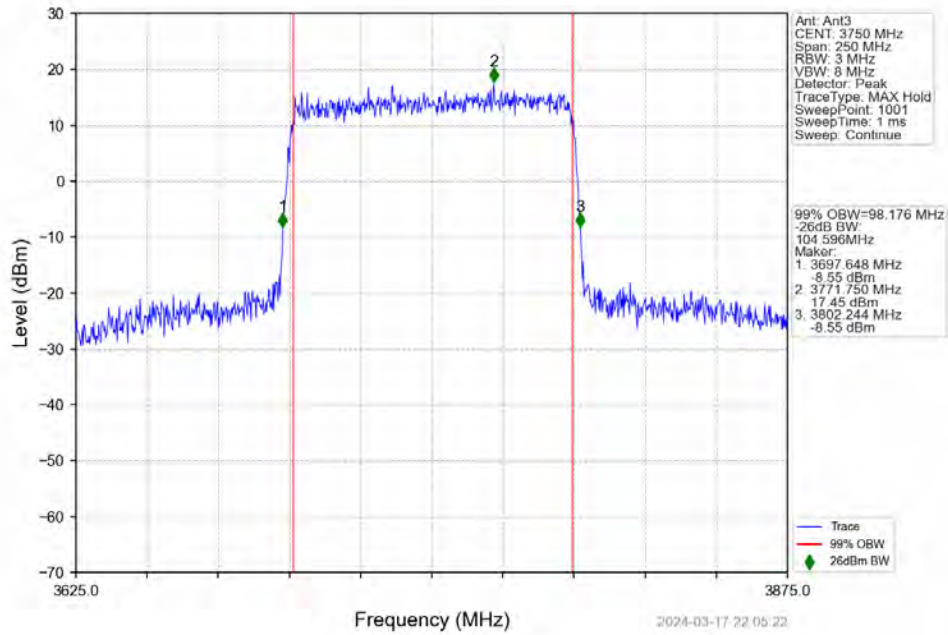
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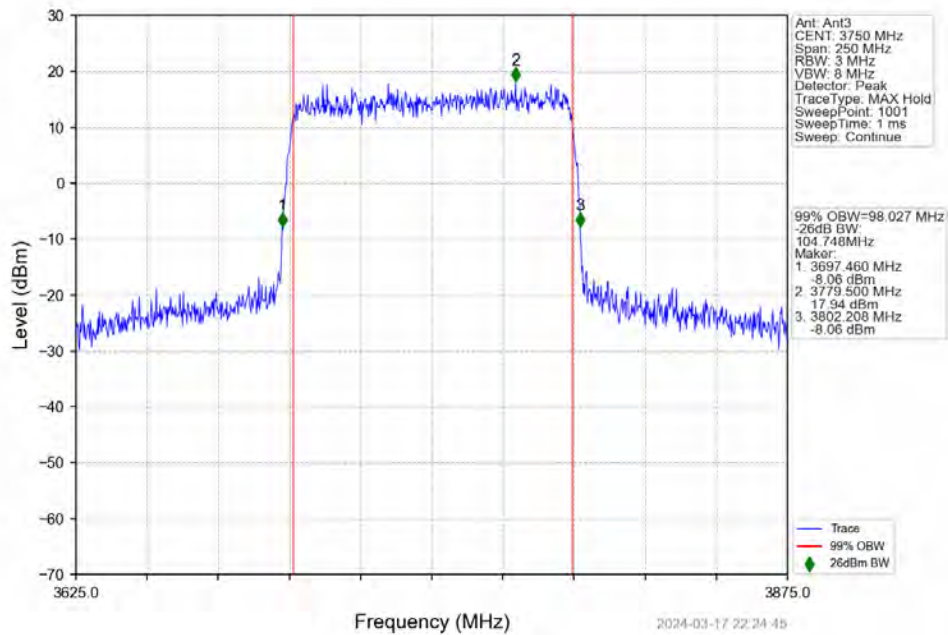
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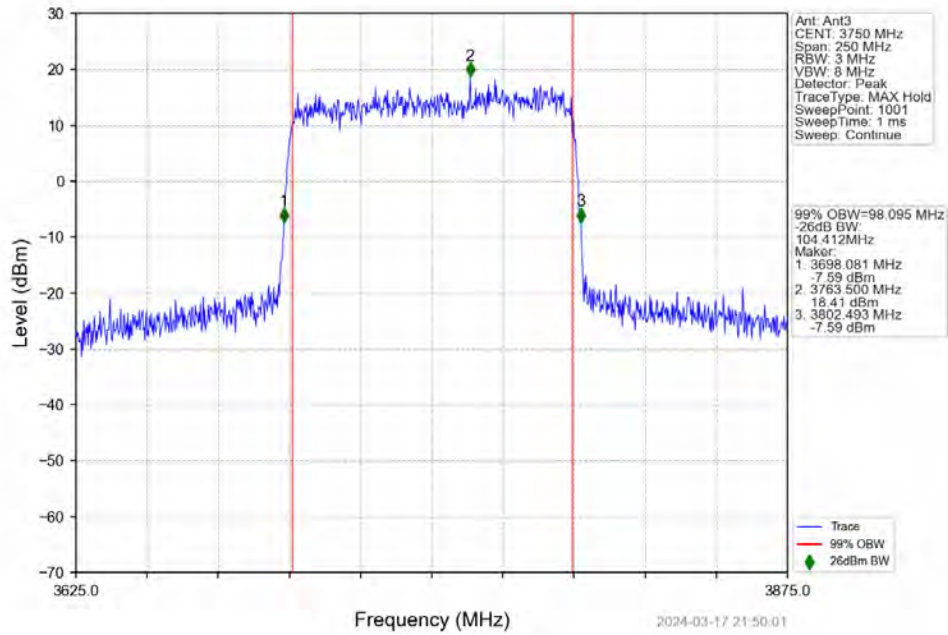
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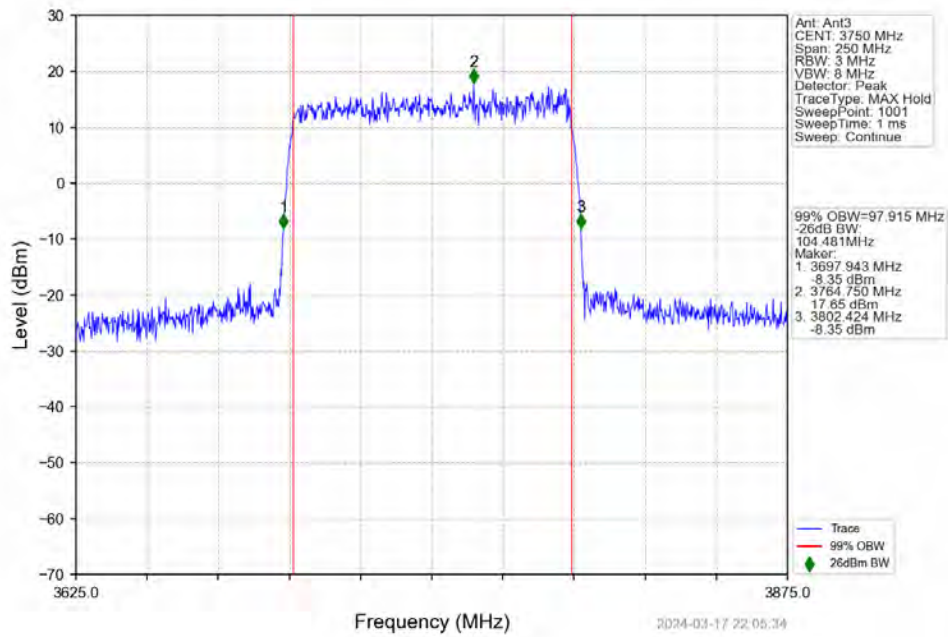
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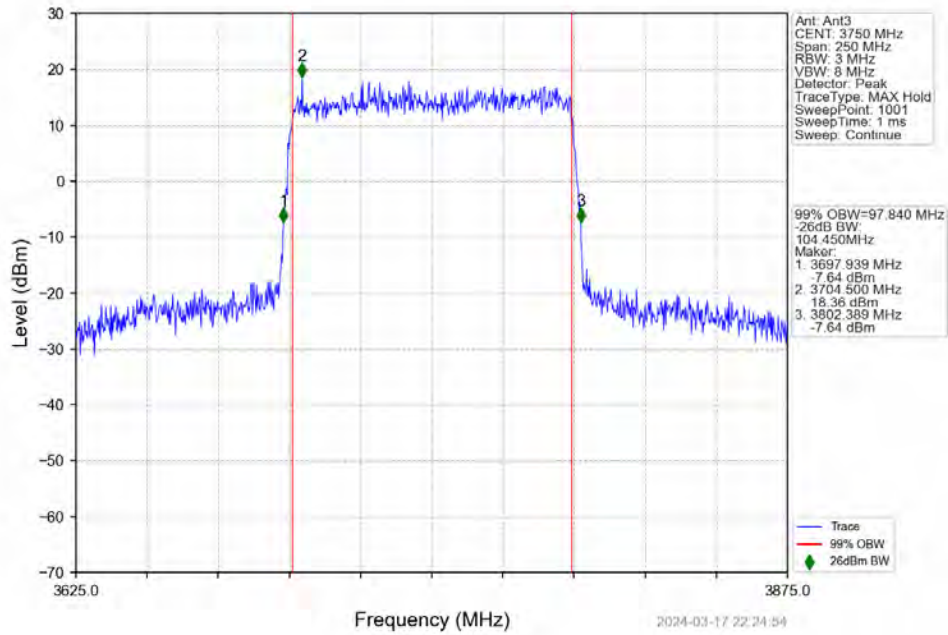
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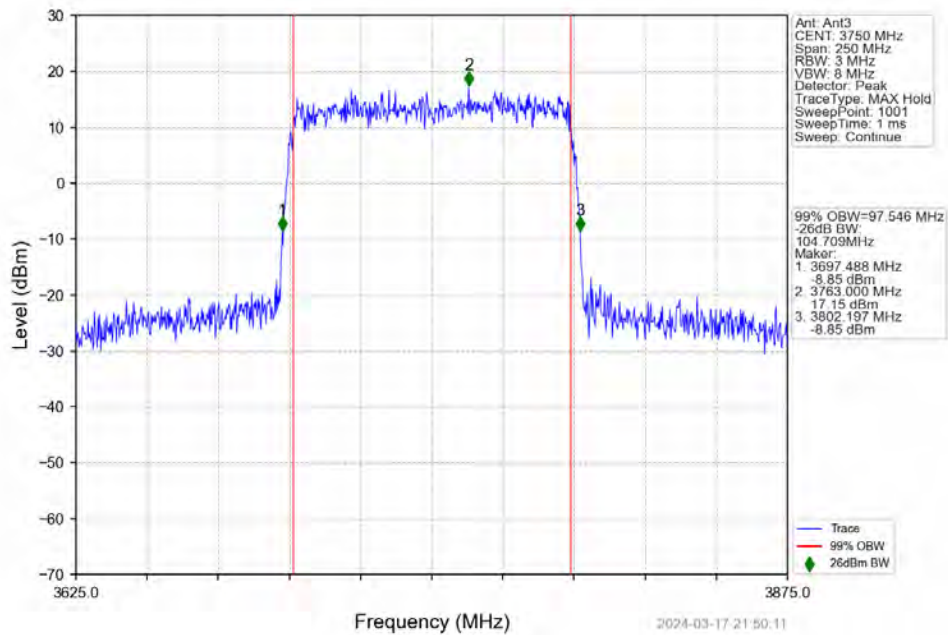
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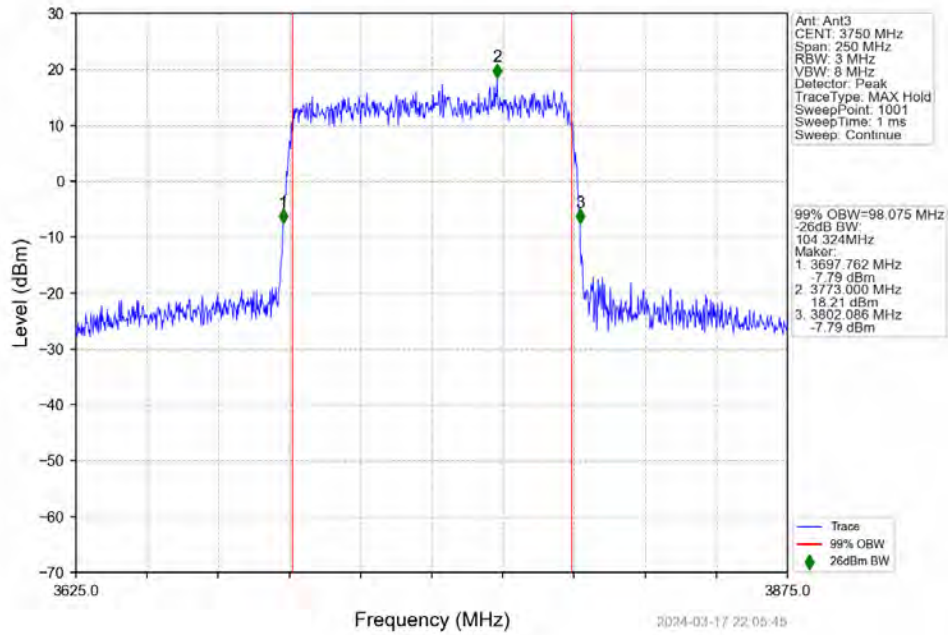
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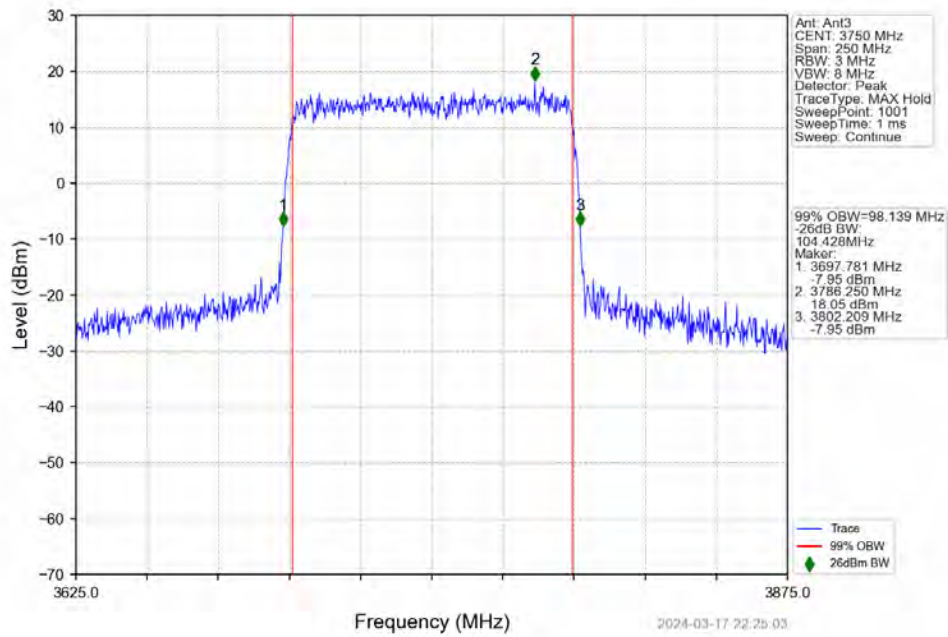
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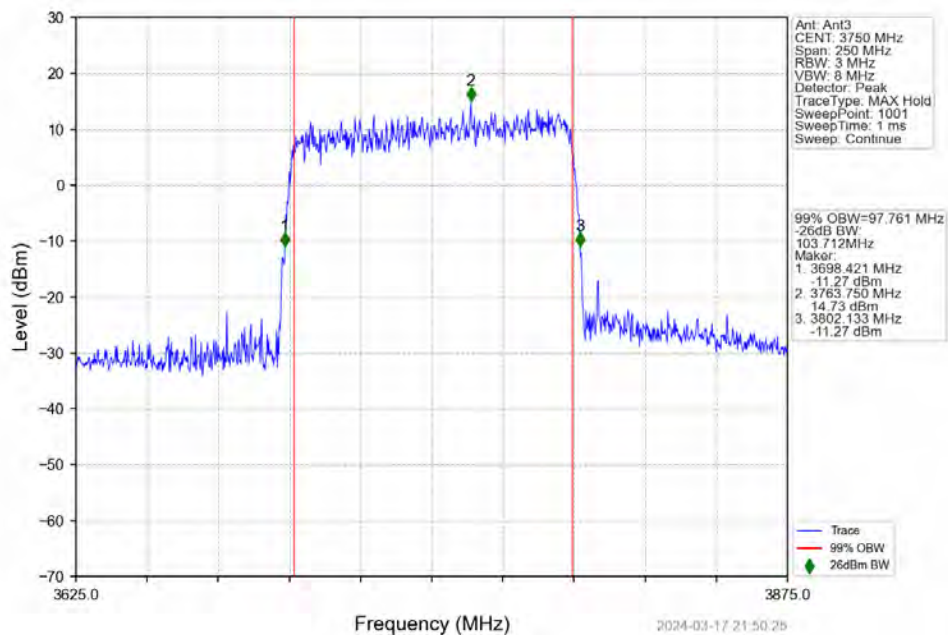
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n78a 30kHz SISO NTN 100MHz CP-OFDM 256 QAM 3750MHz Outer Full



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