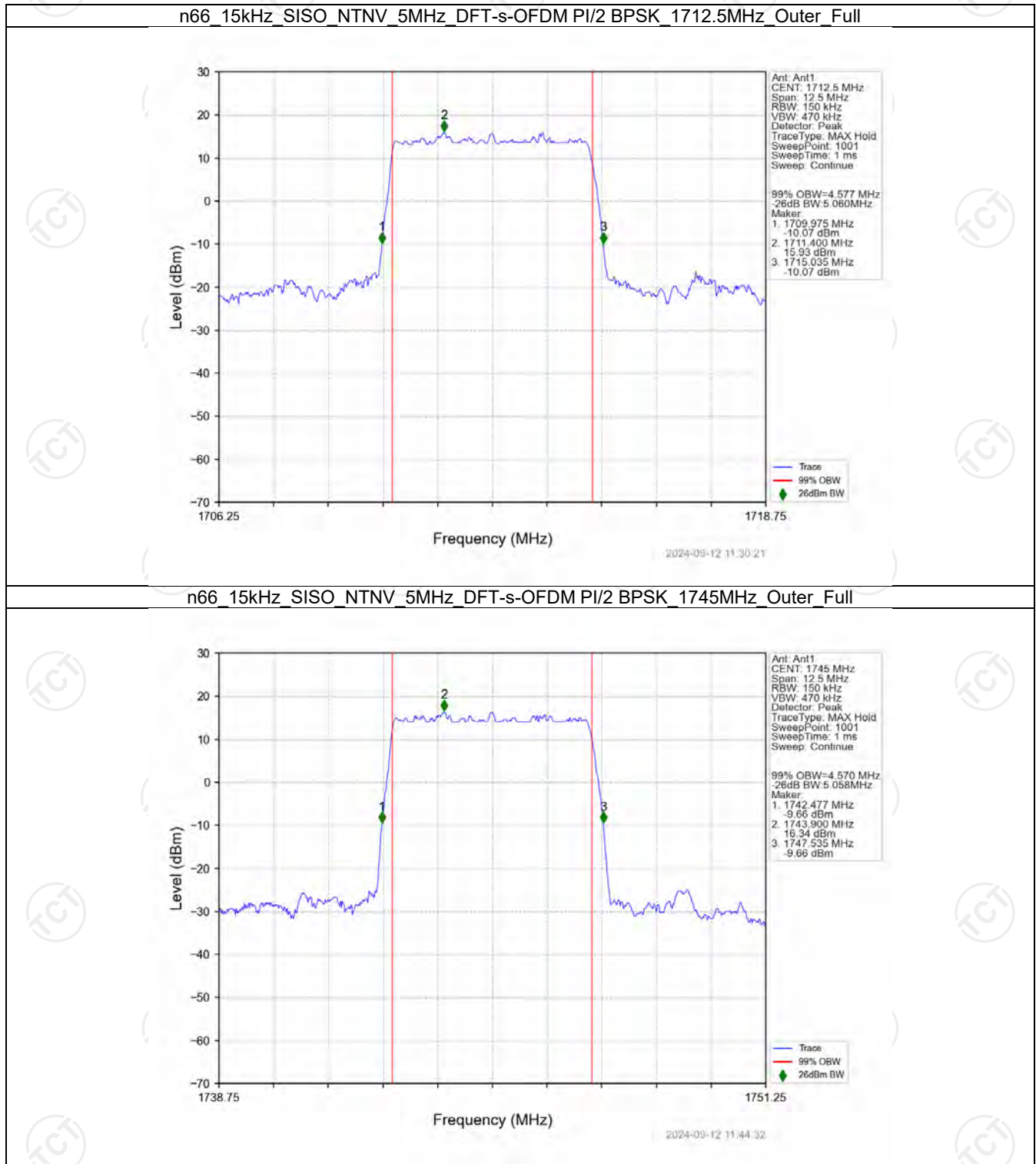
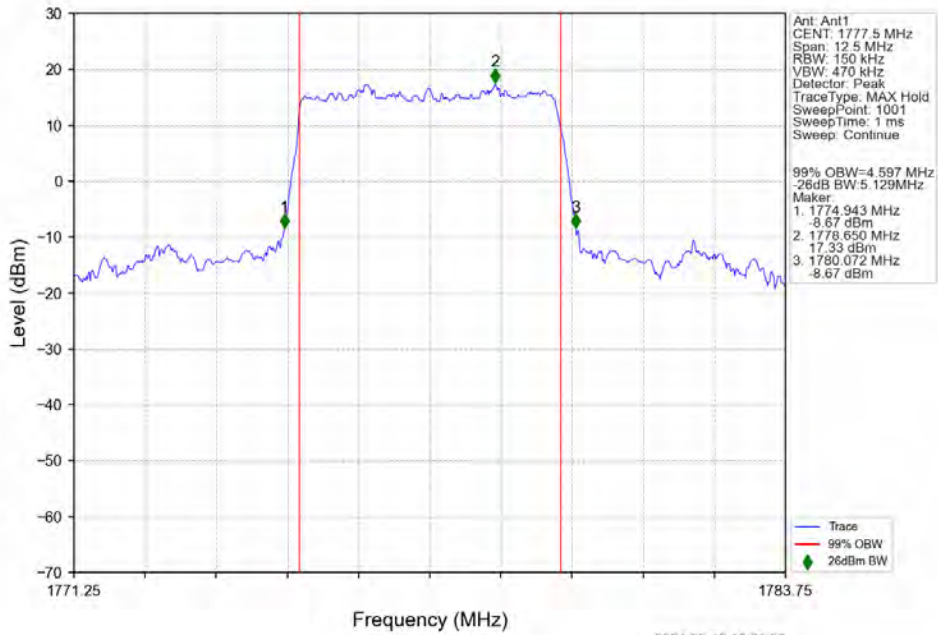


4.2 Test Graph

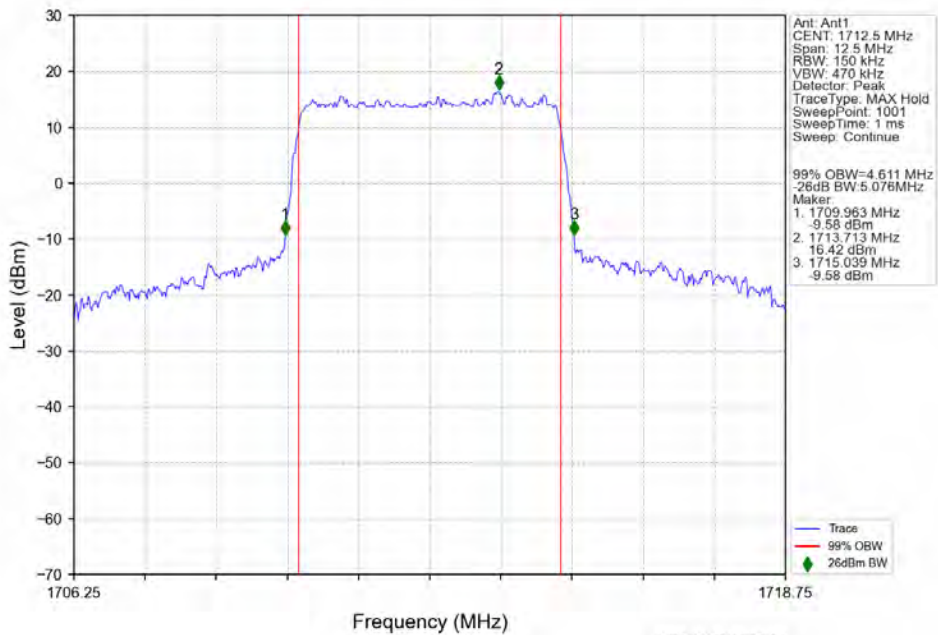
4.2.1 15k_SISO_5MHz_NTNV



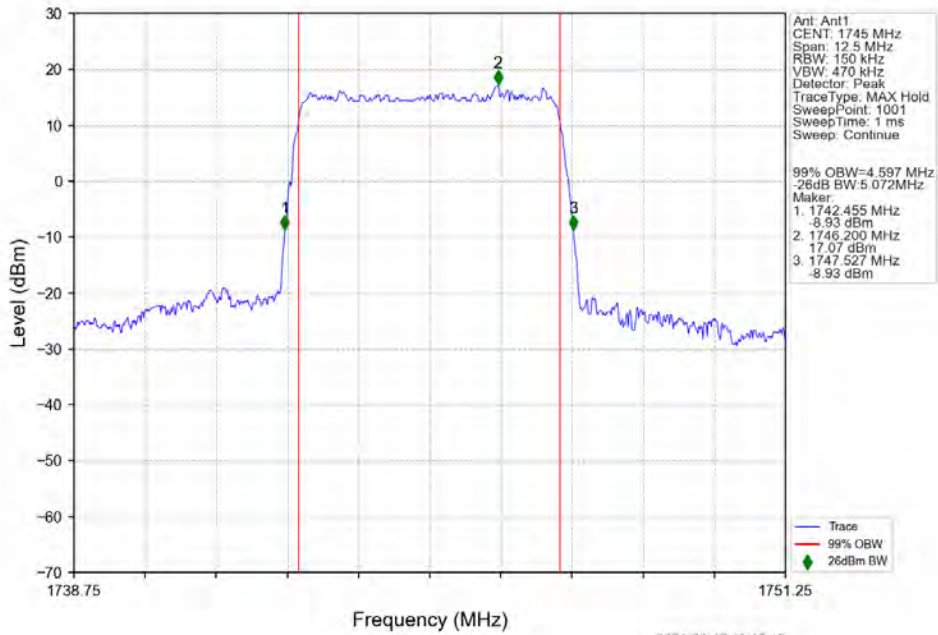
n66 15kHz SISO NTN 5MHz DFT-s-OFDM PI/2 BPSK 1777.5MHz Outer Full



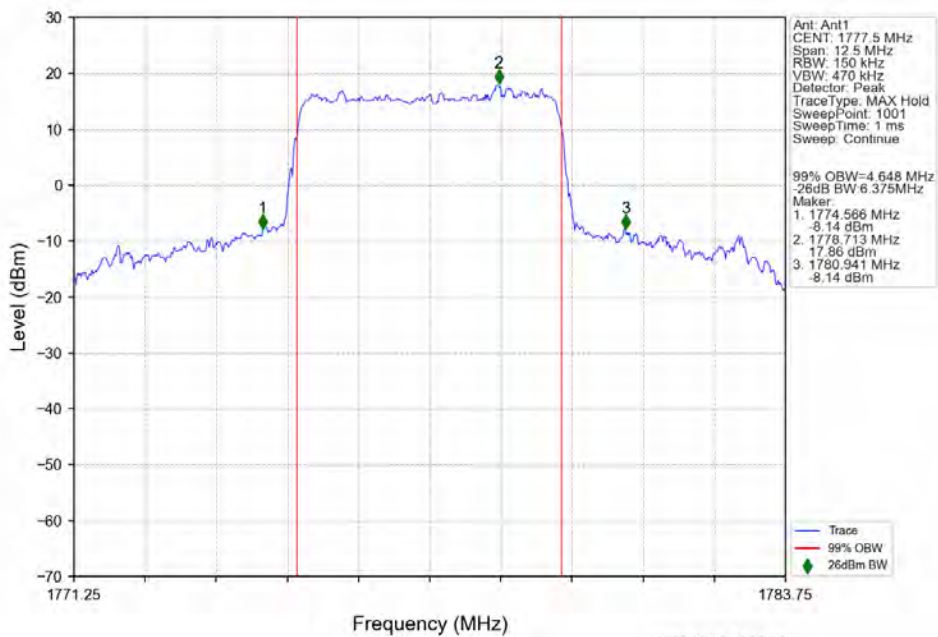
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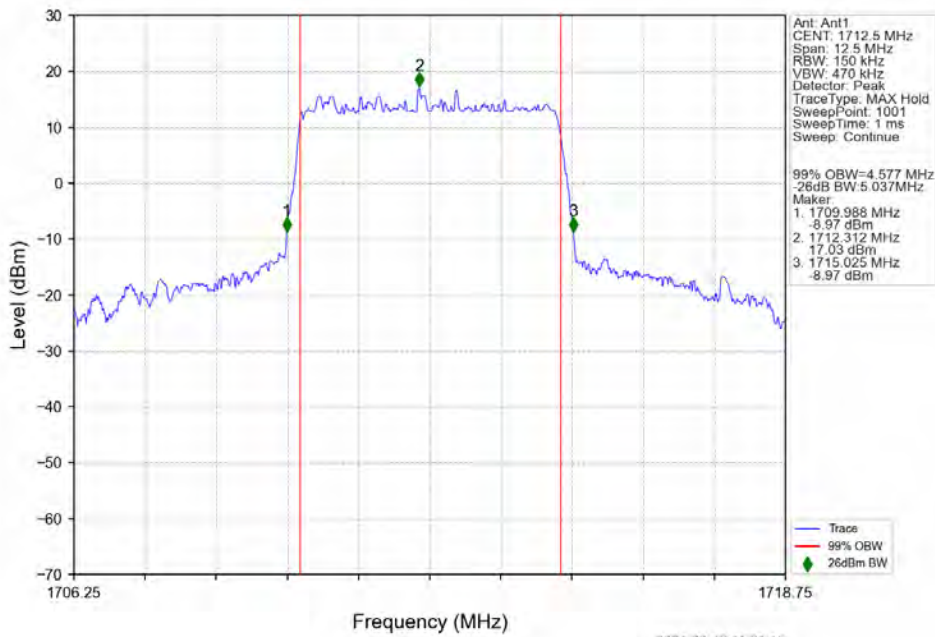
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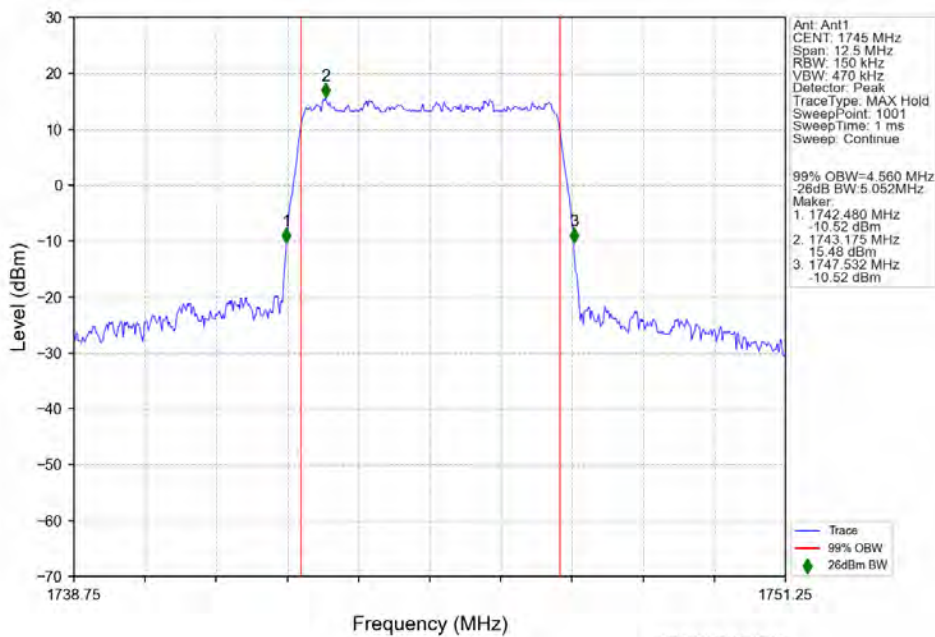
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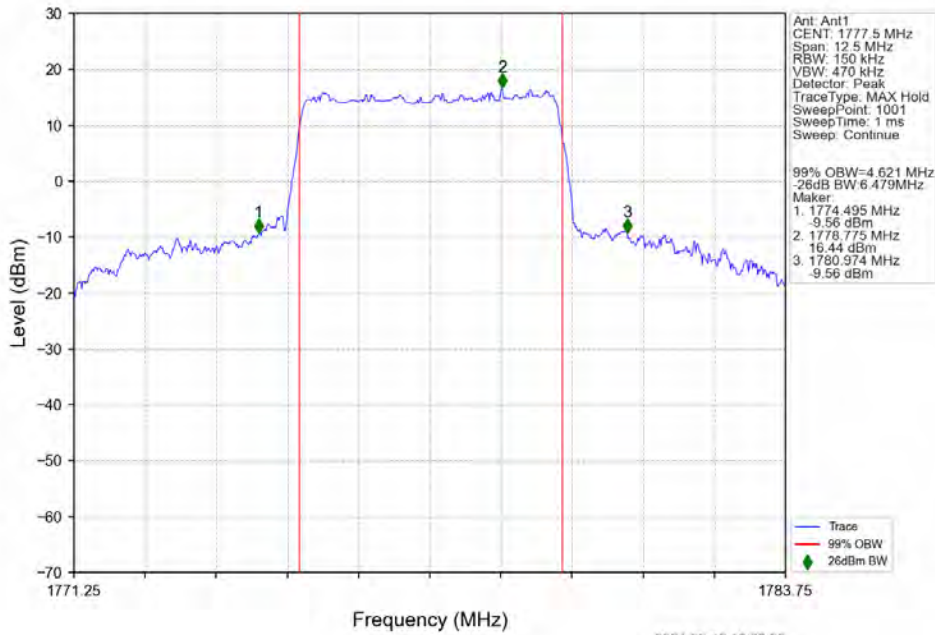
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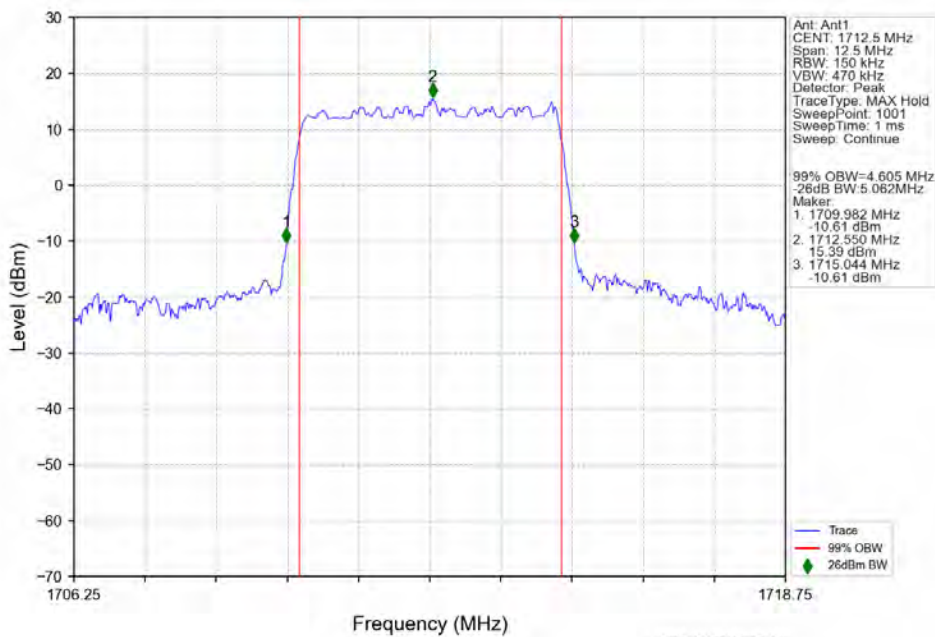
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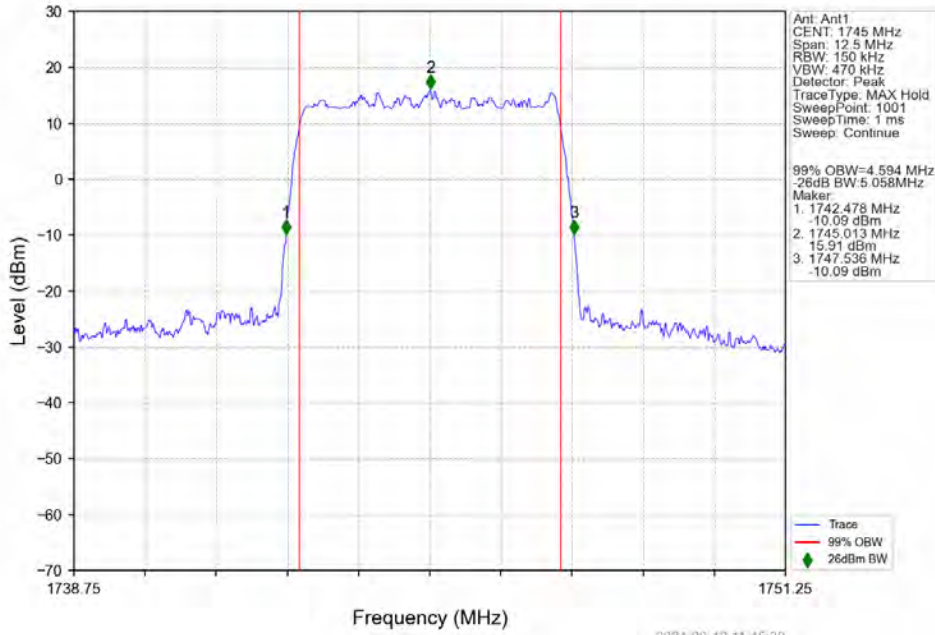
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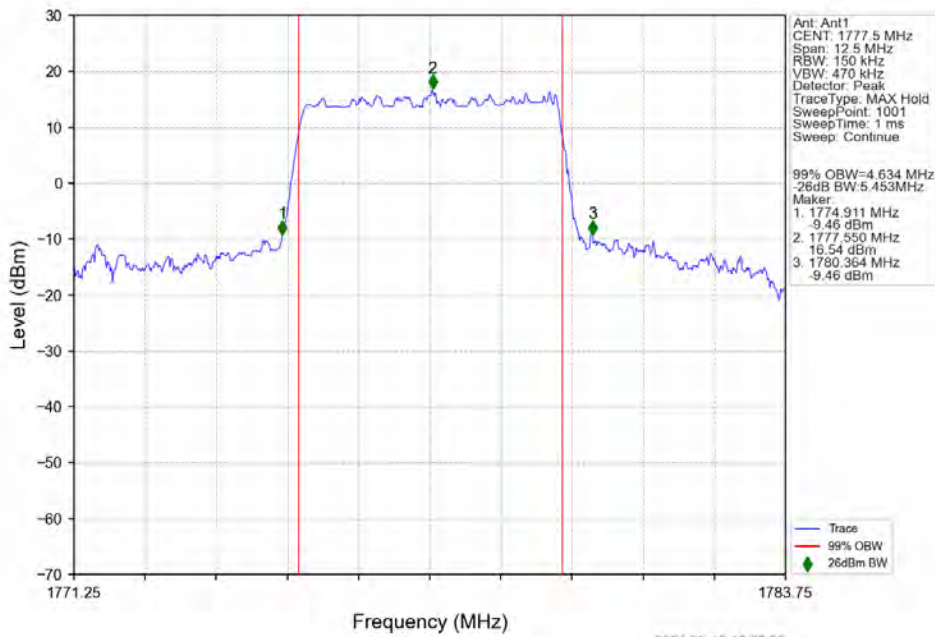
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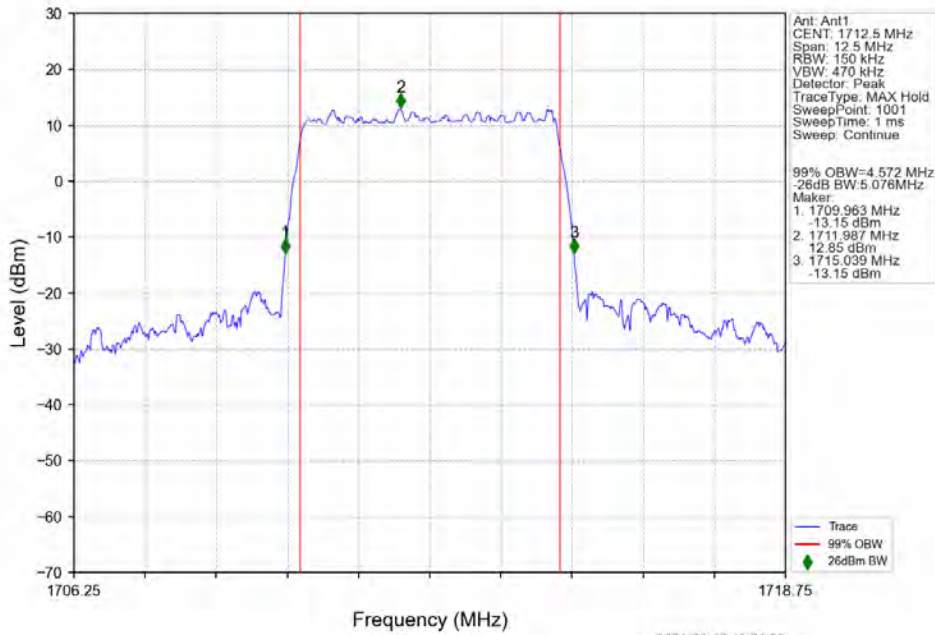
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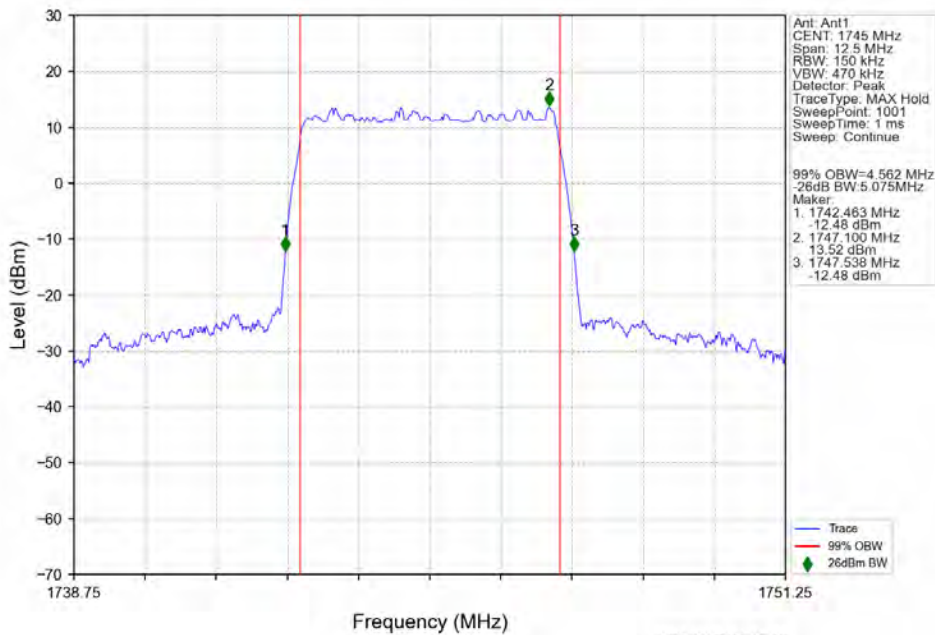
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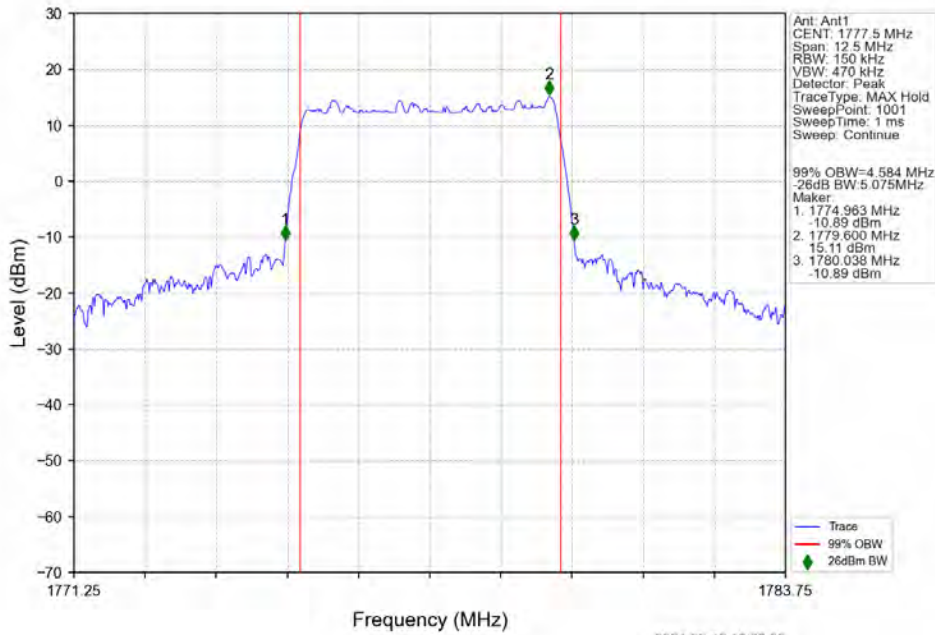
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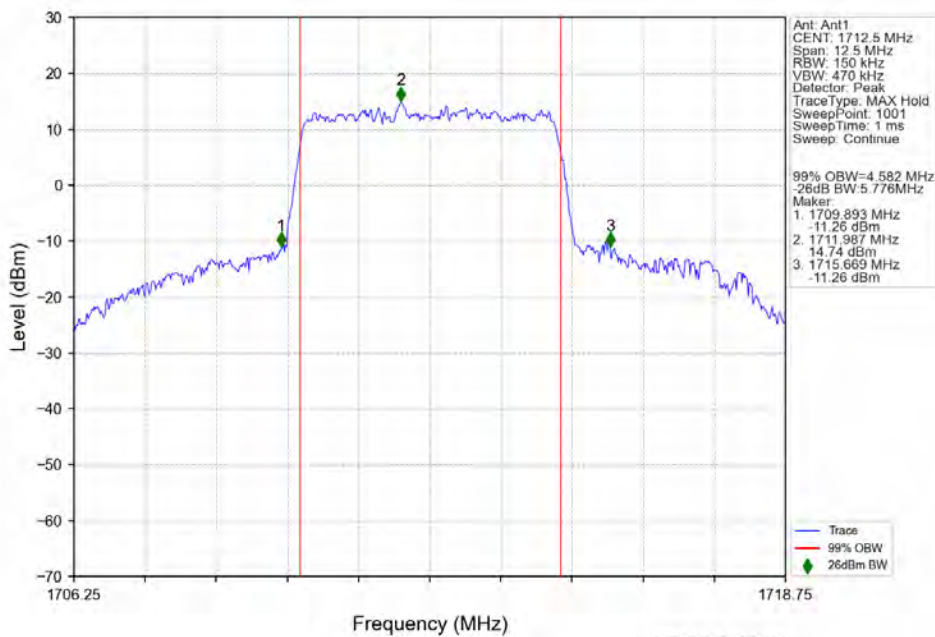
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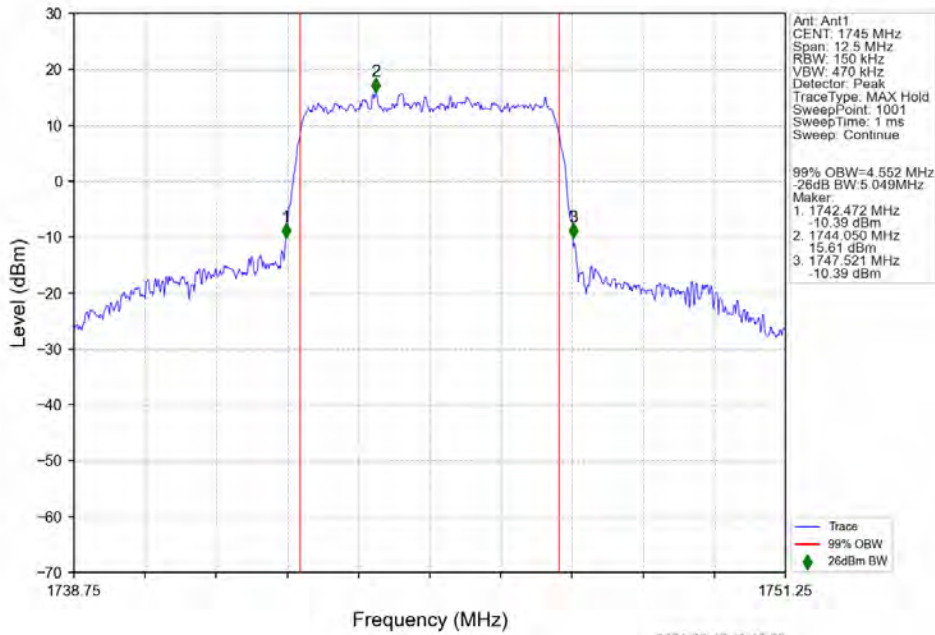
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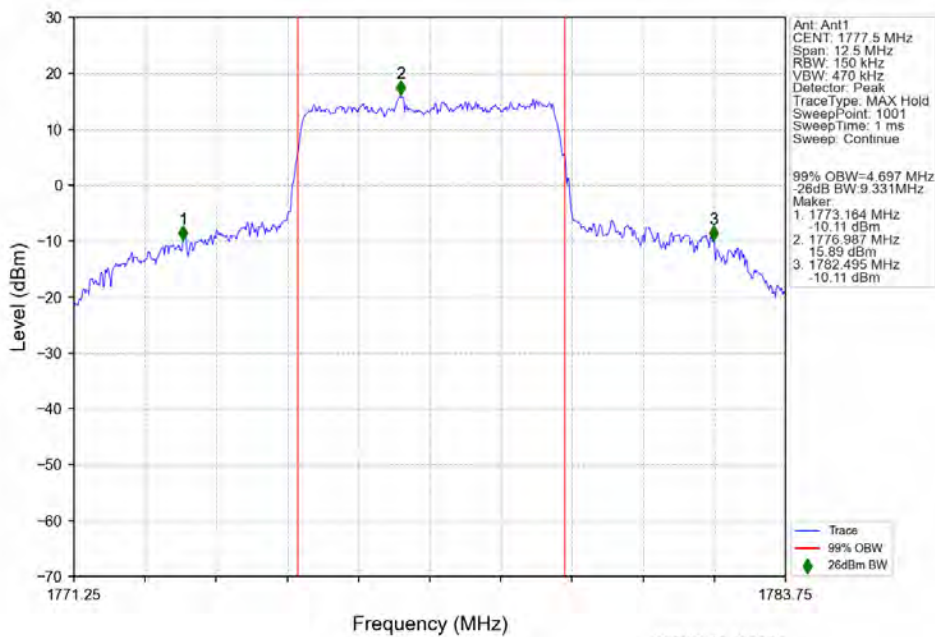
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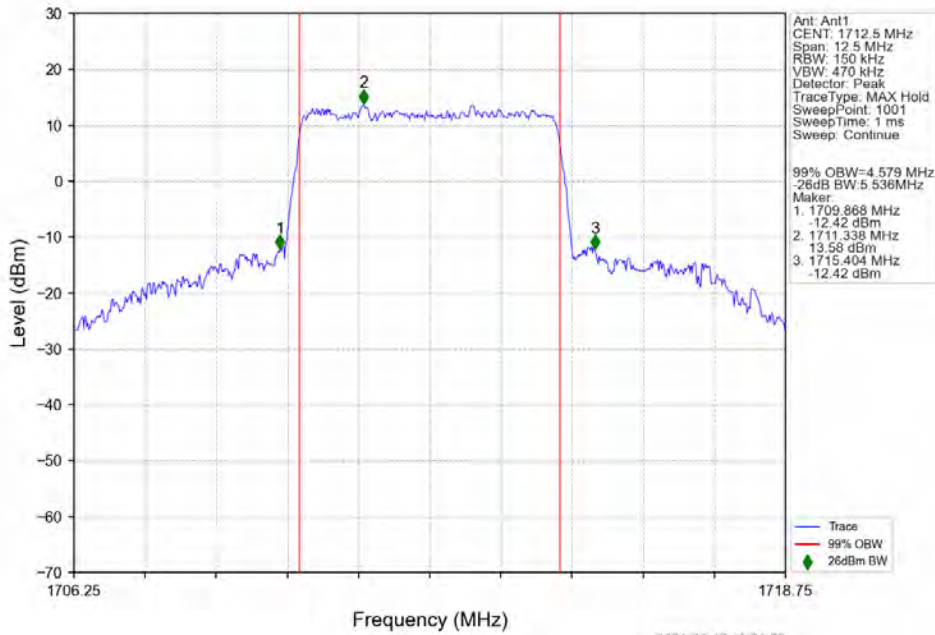
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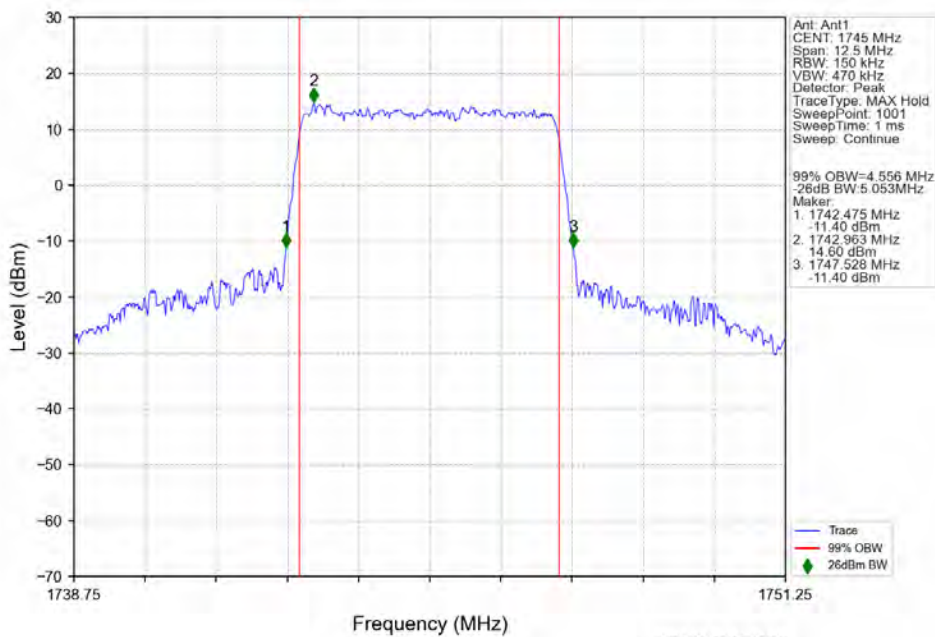
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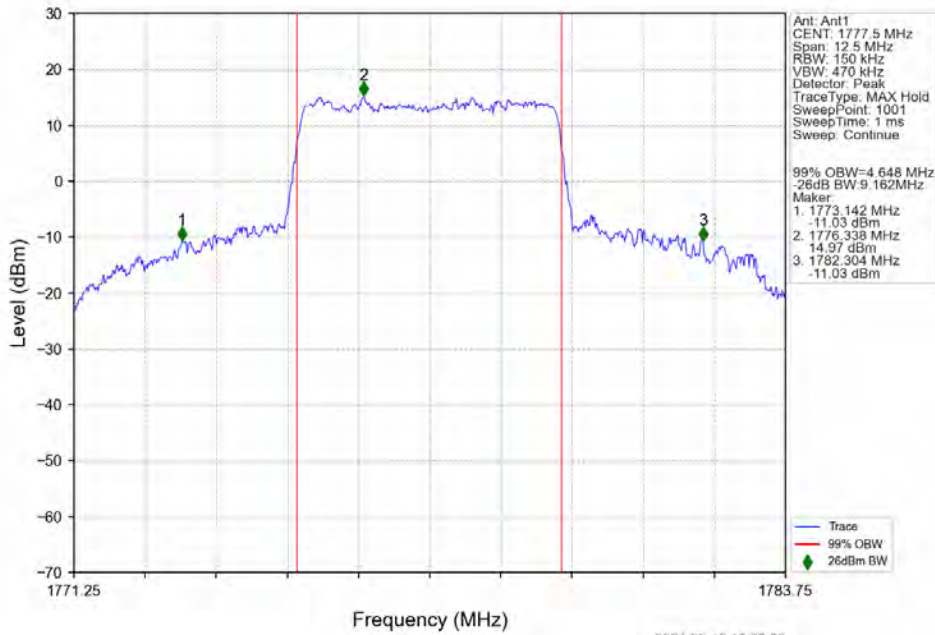
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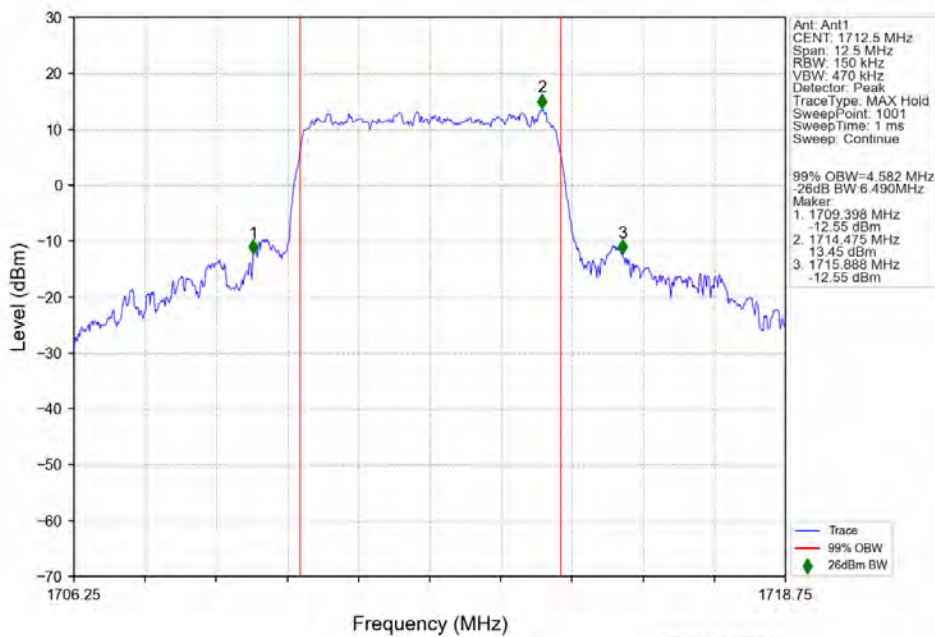
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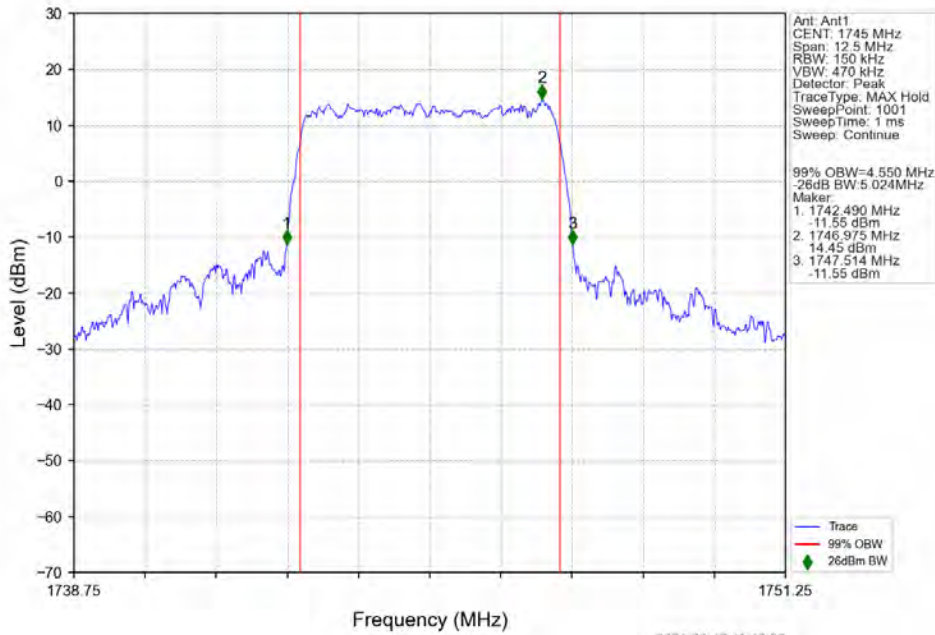
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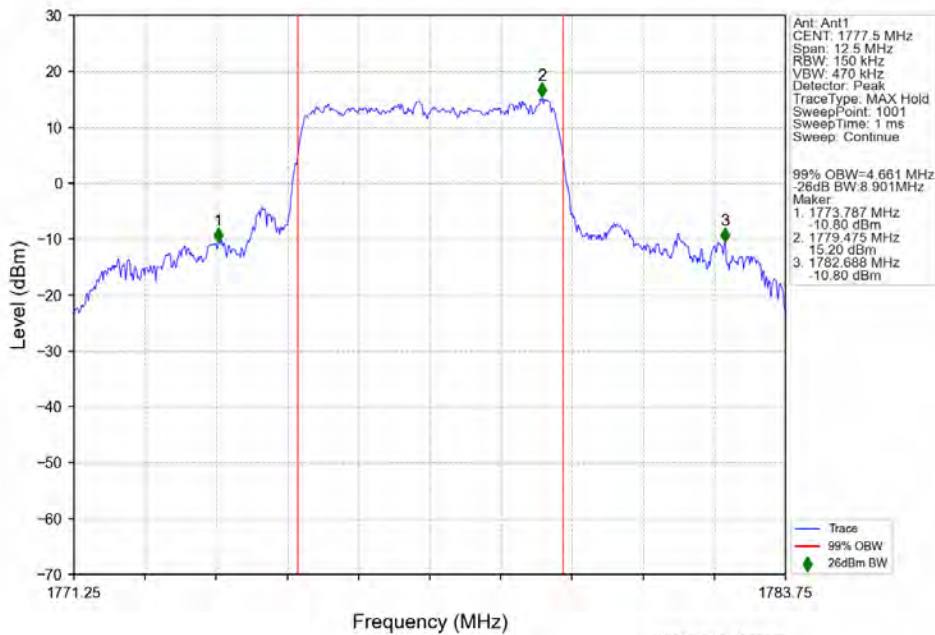
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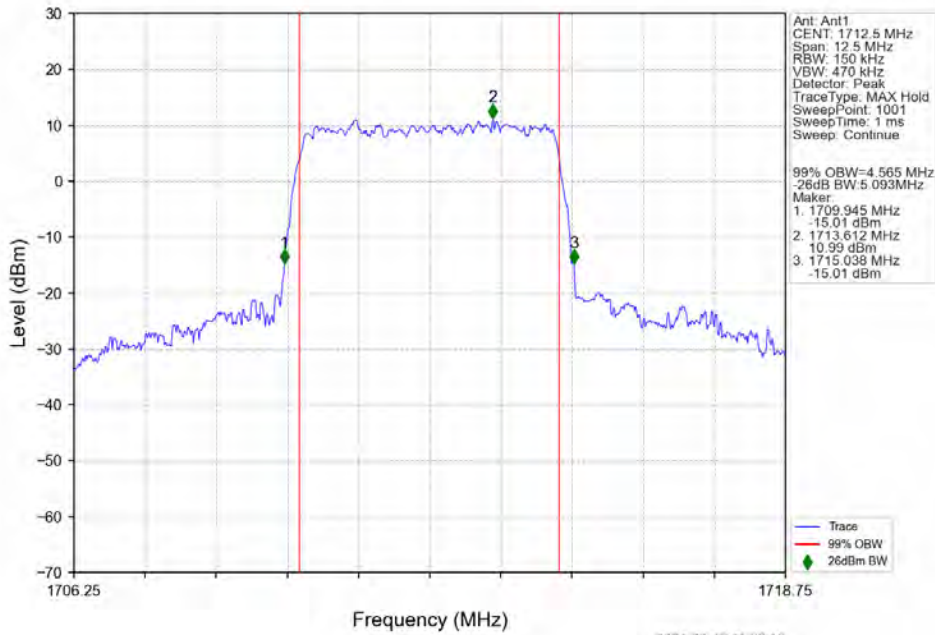
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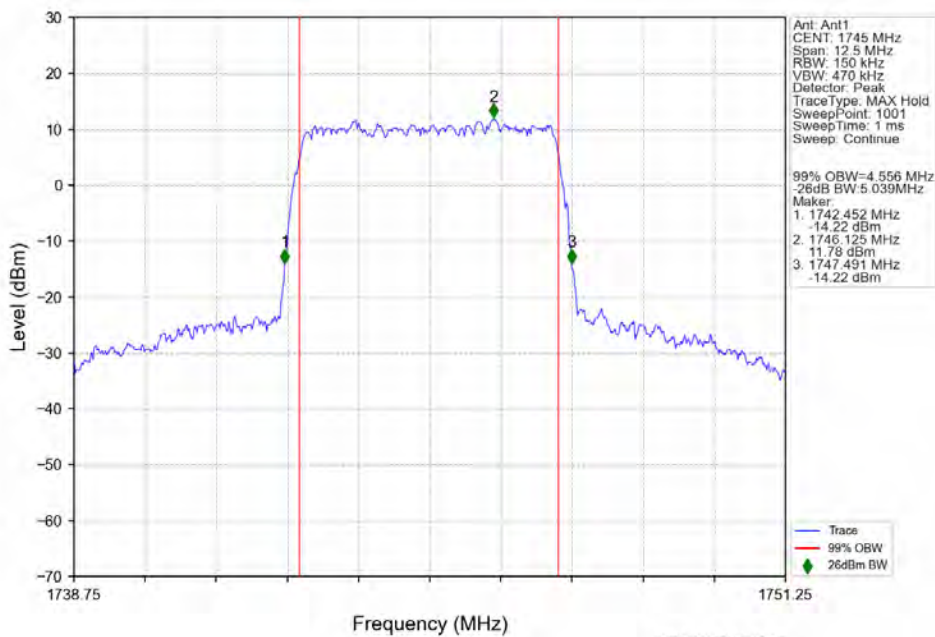
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n66 15kHz SISO NTV 5MHz CP-OFDM 256 QAM 1712.5MHz Outer Full



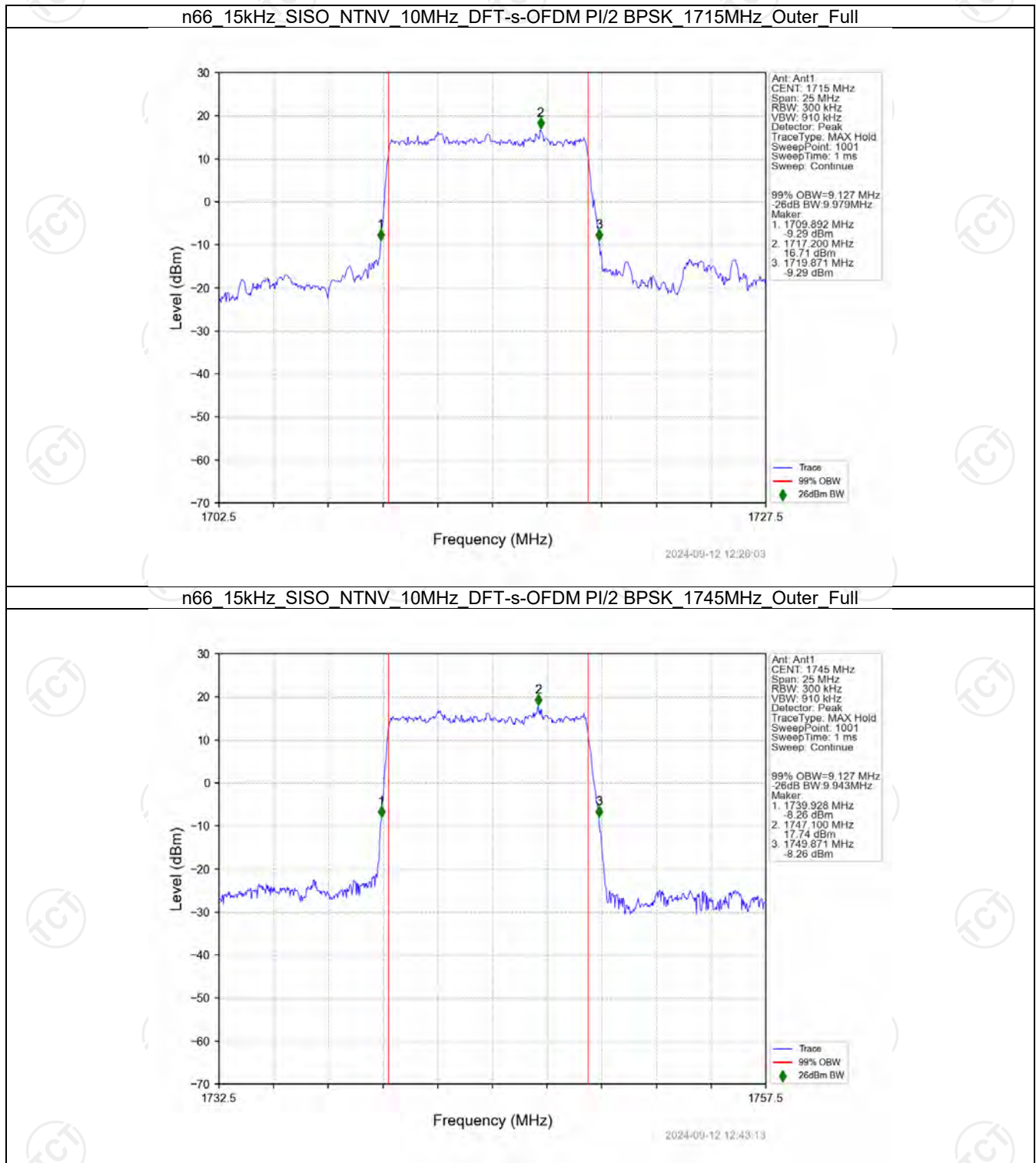
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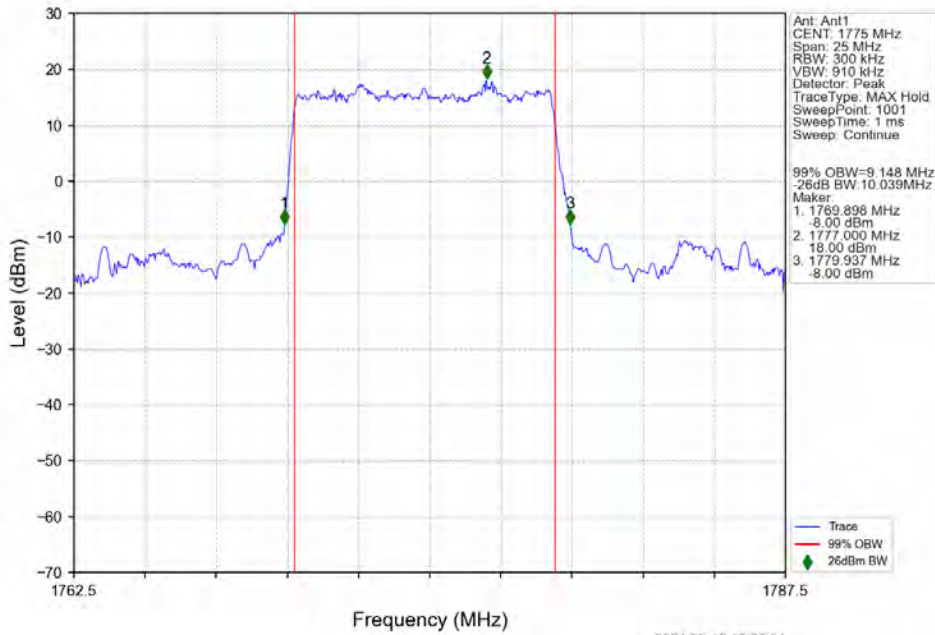
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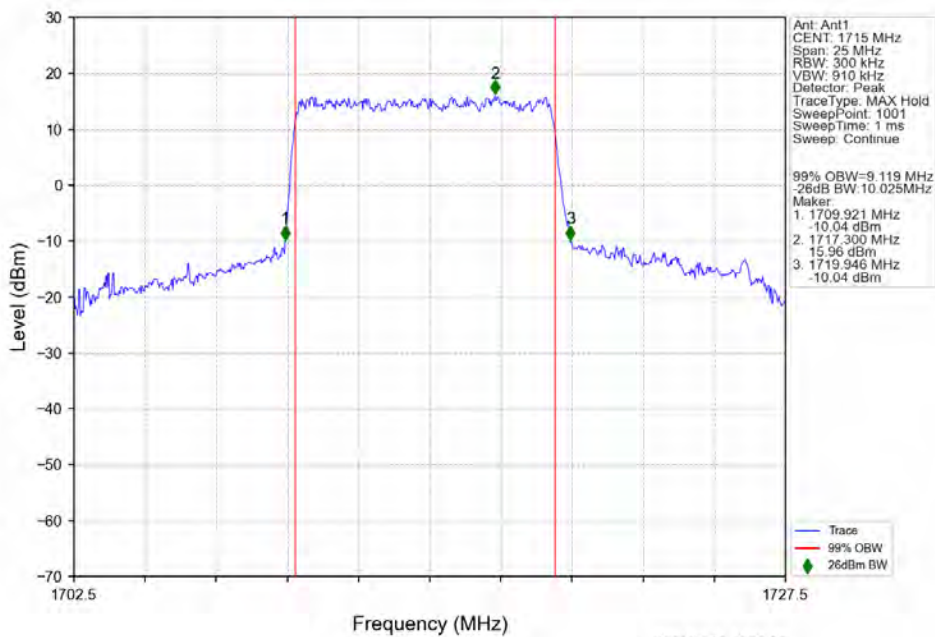
4.2.2 15k_SISO_10MHz_NTNV



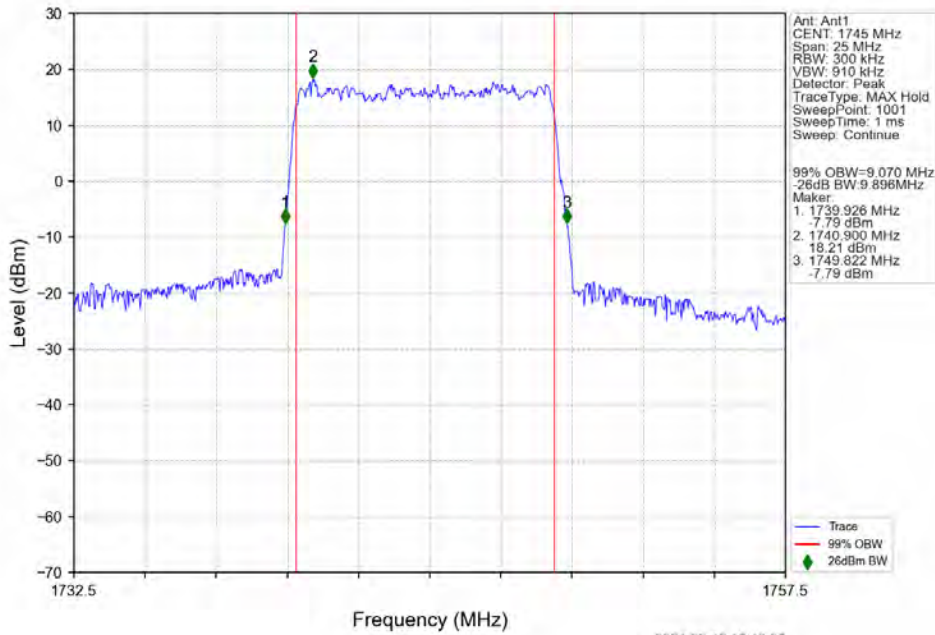
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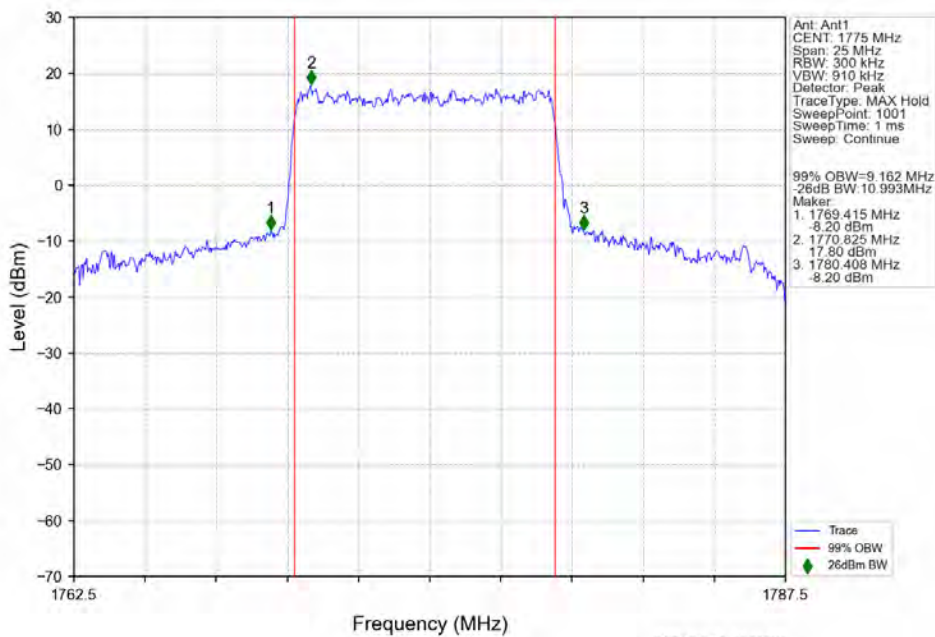
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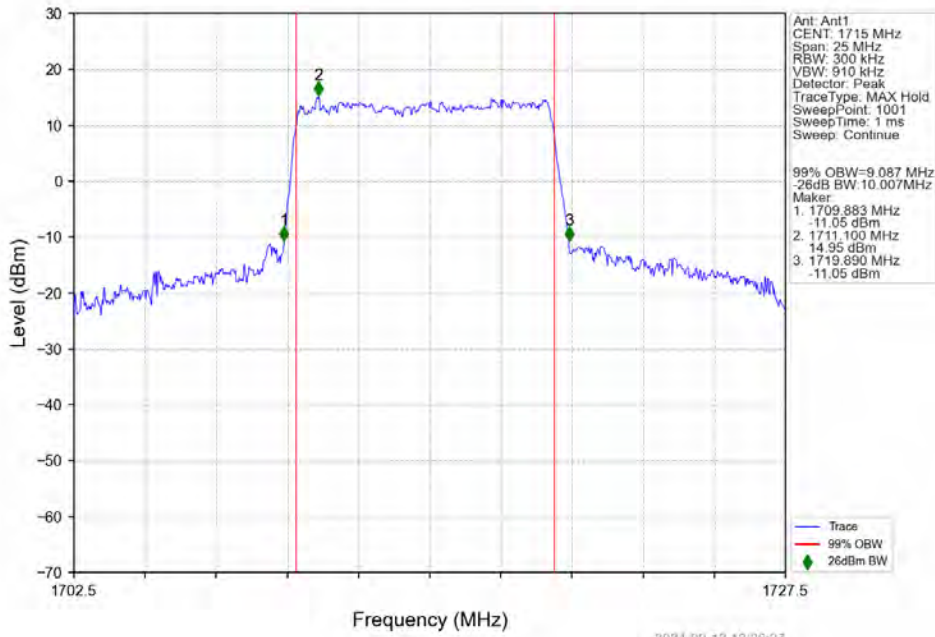
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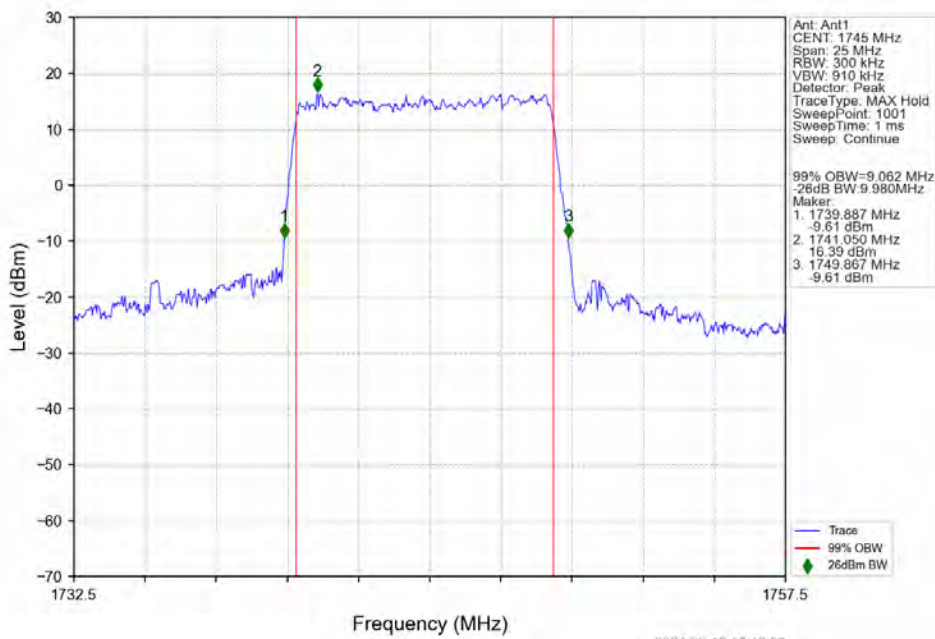
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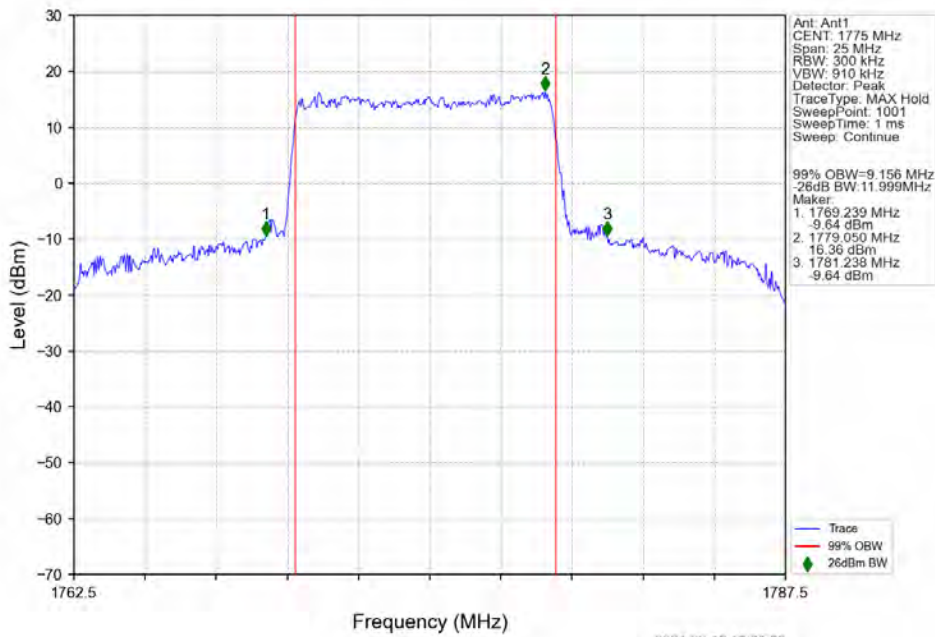
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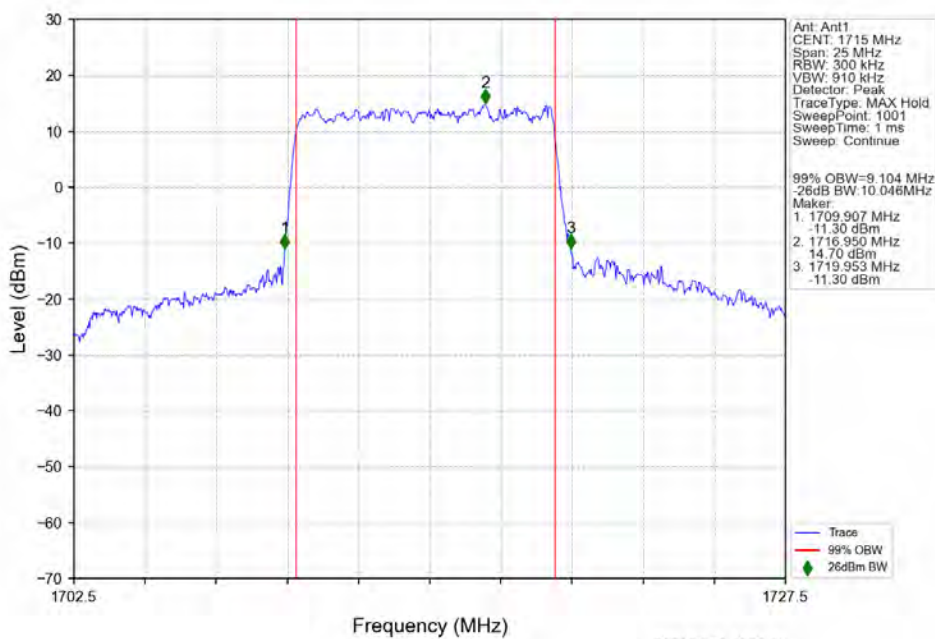
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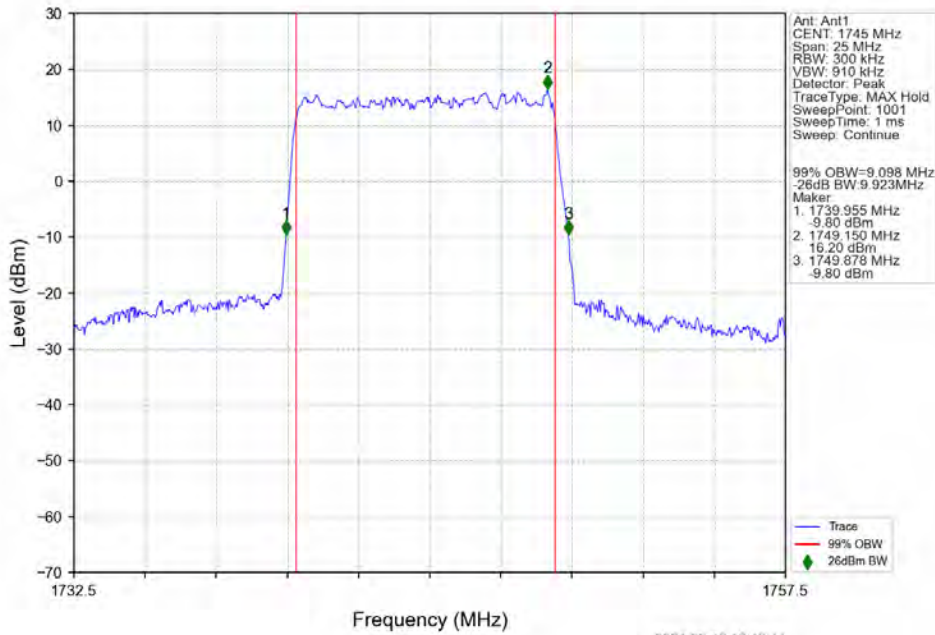
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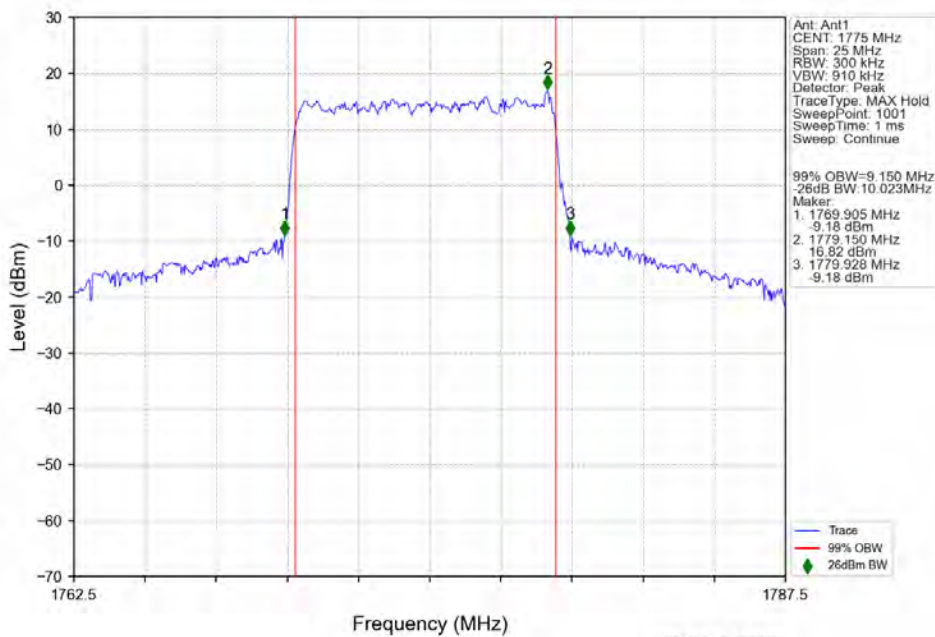
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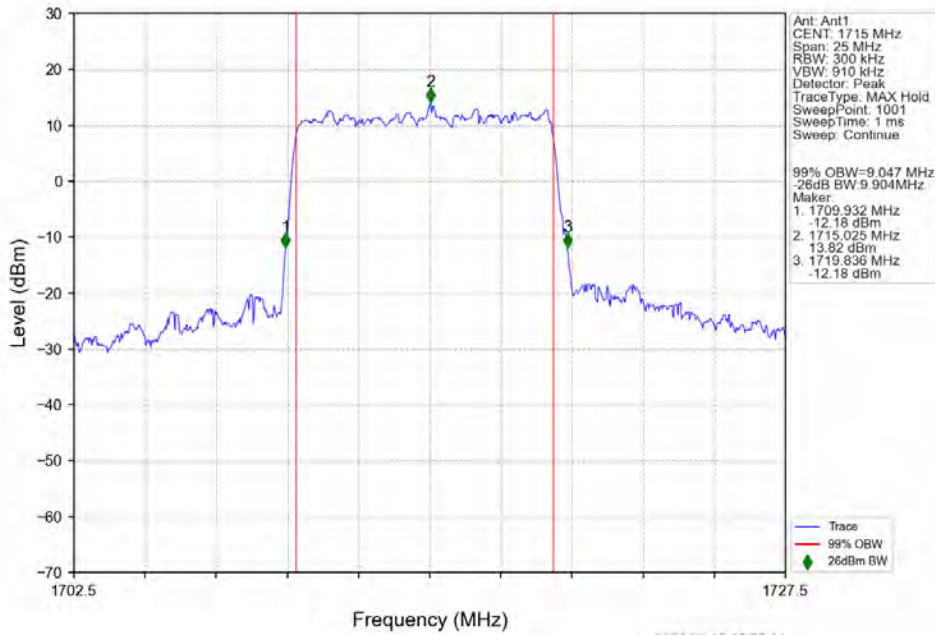
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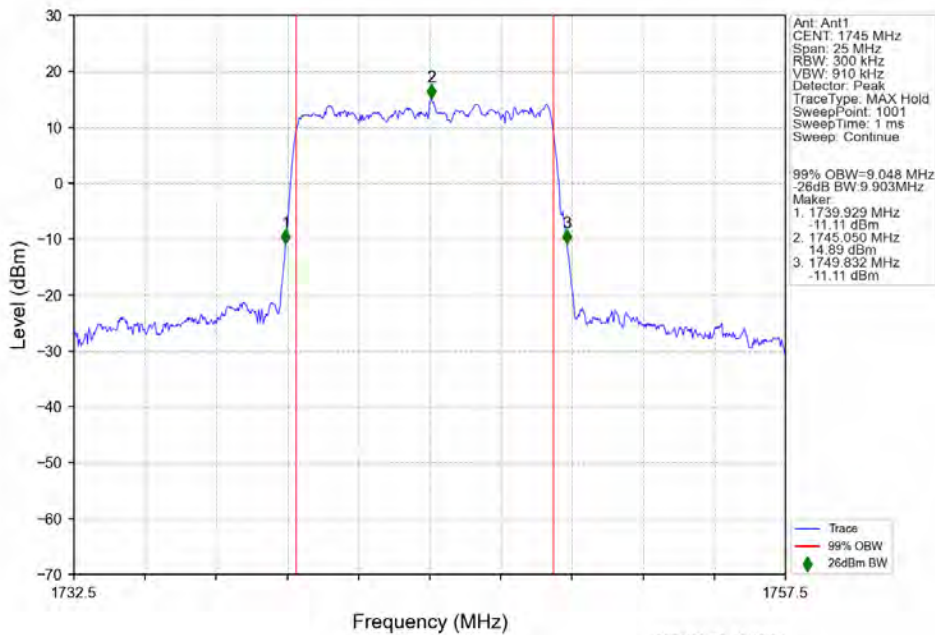
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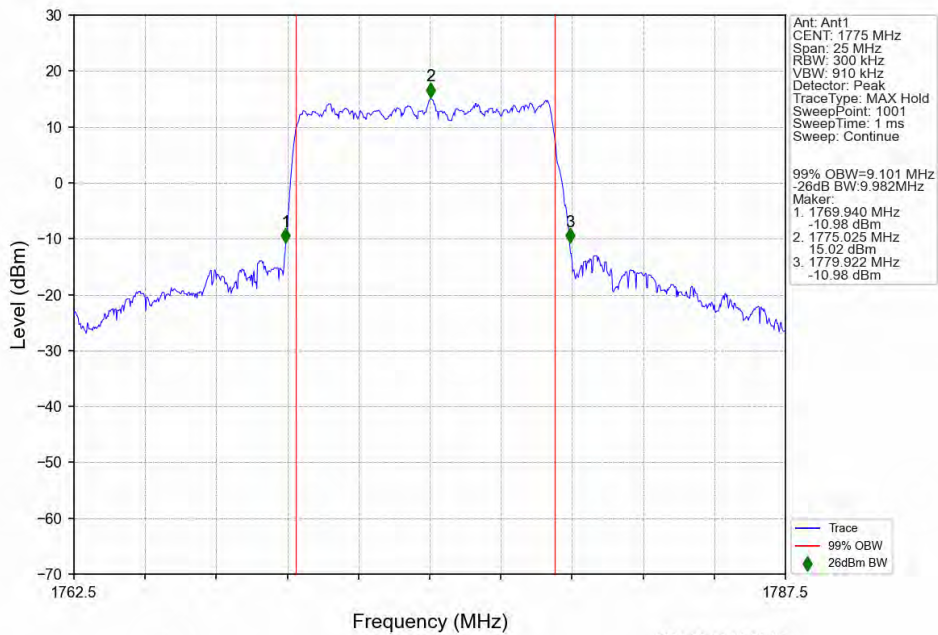
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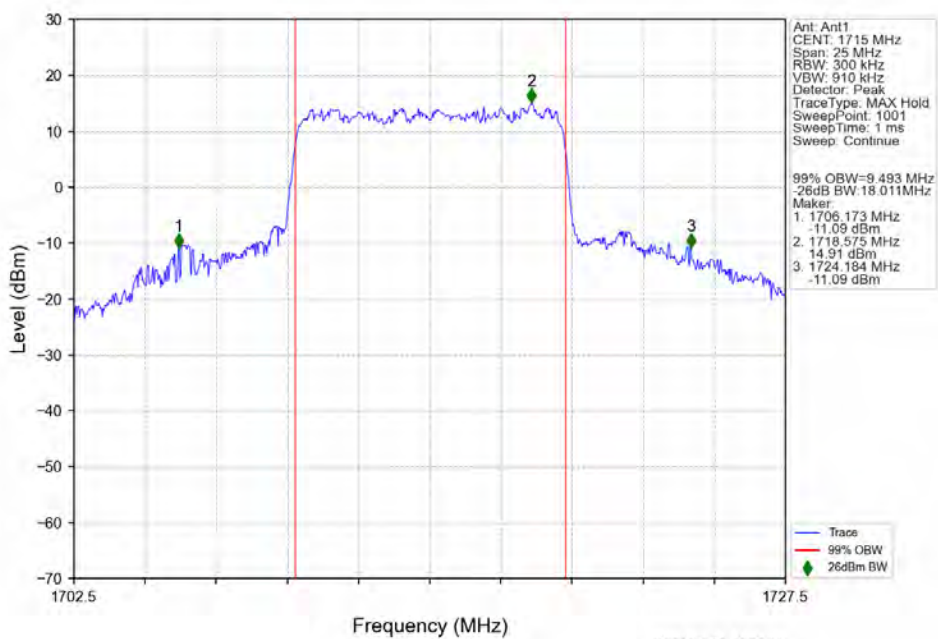
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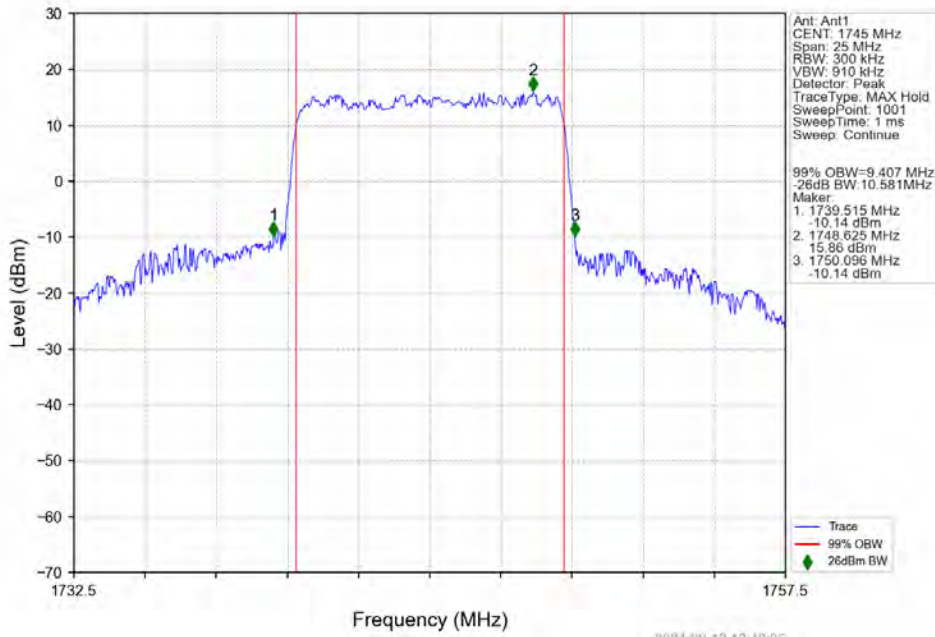
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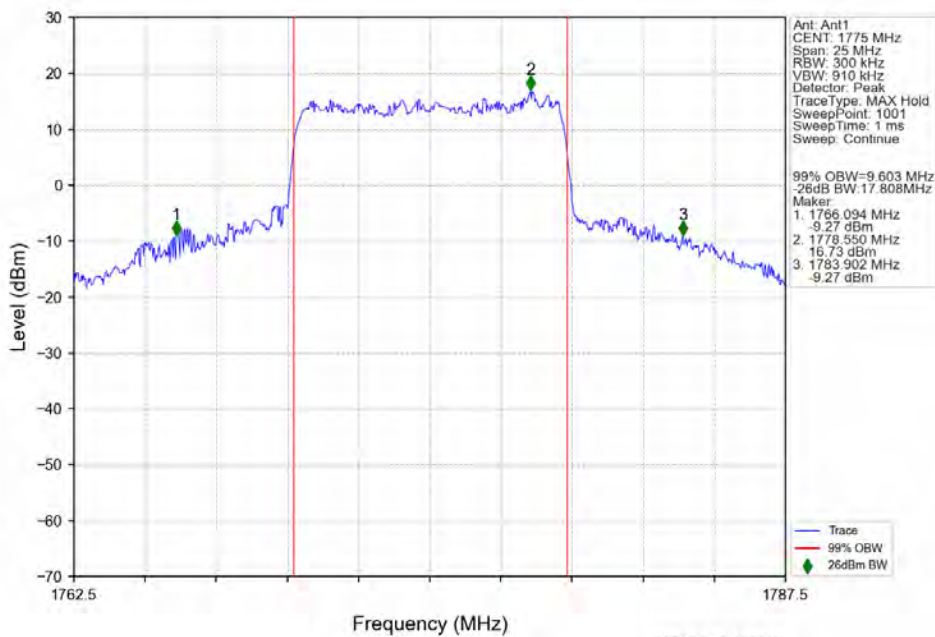
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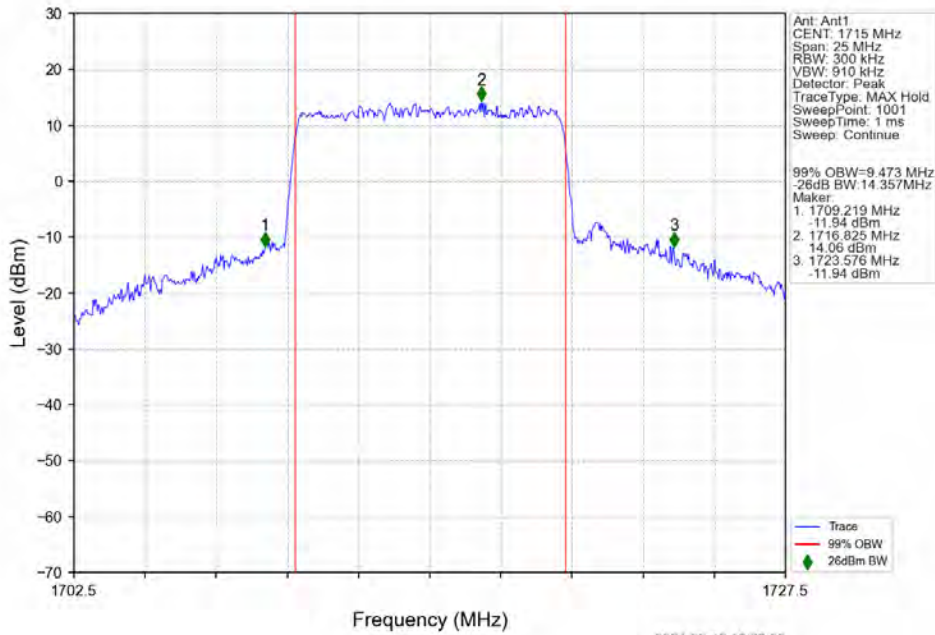
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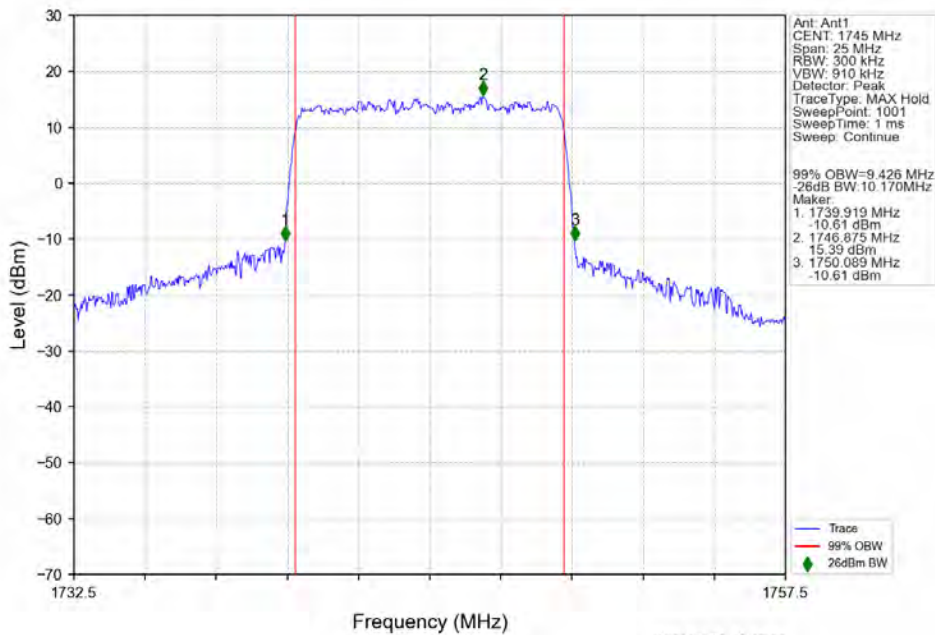
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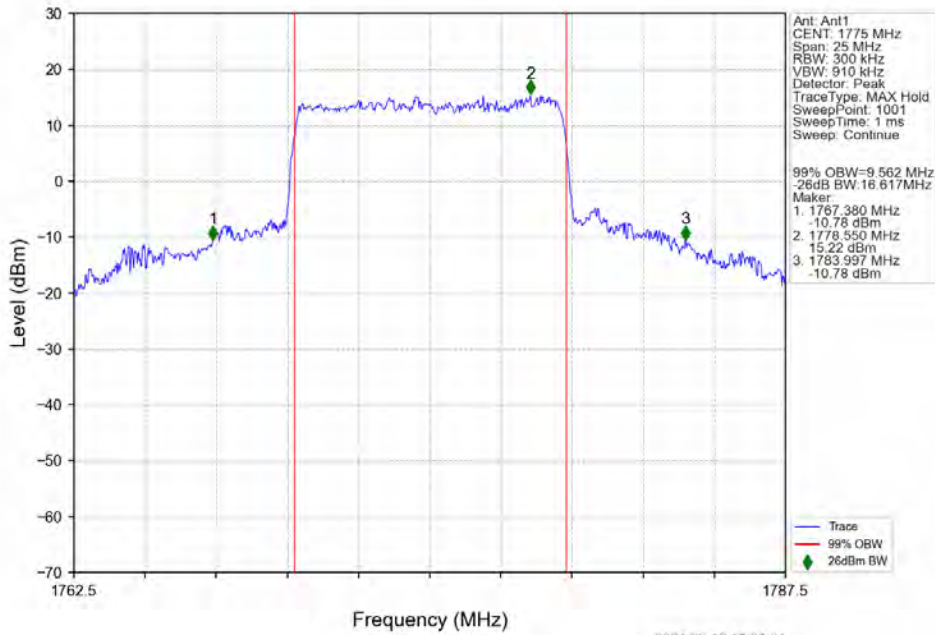
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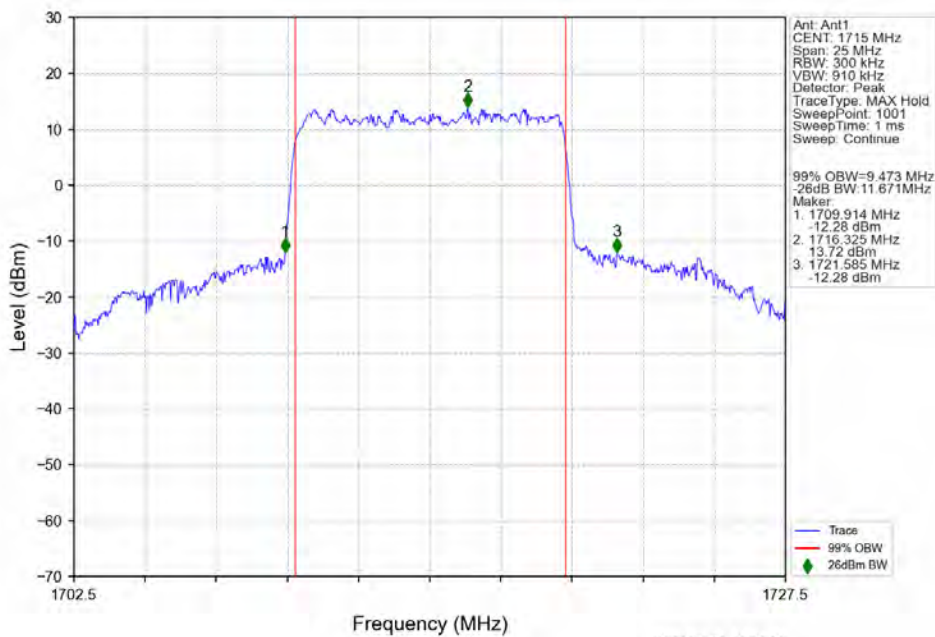
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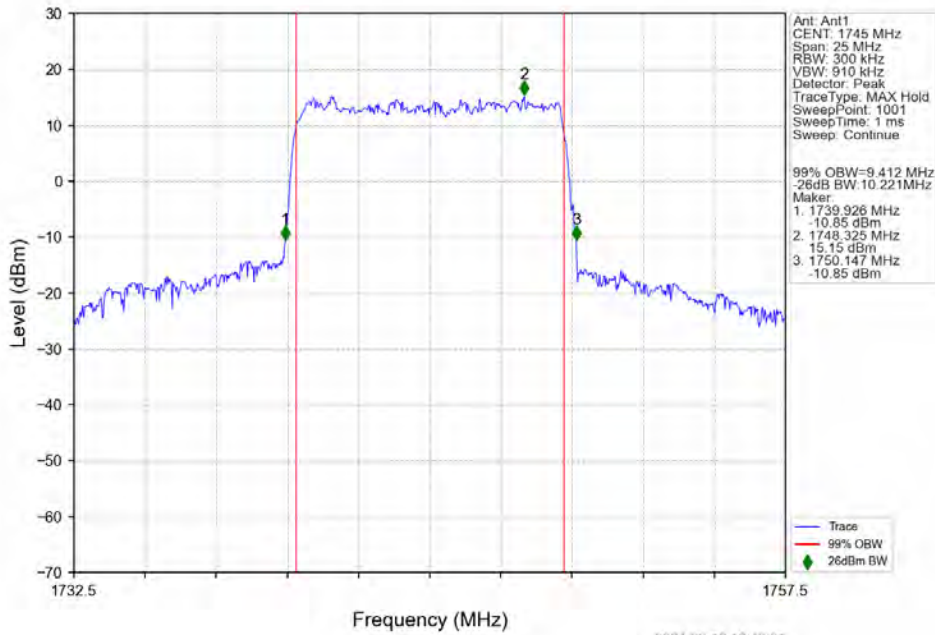
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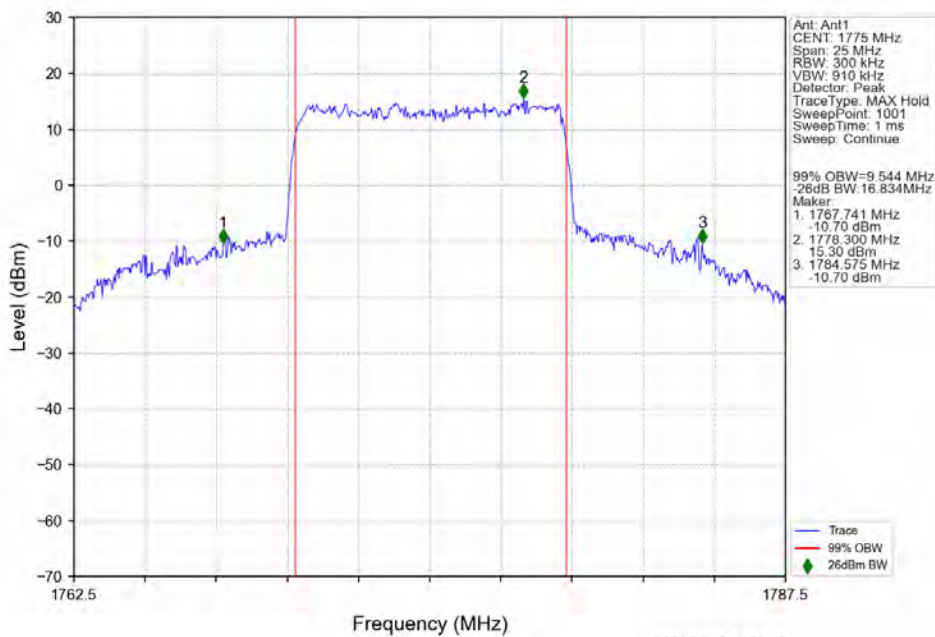
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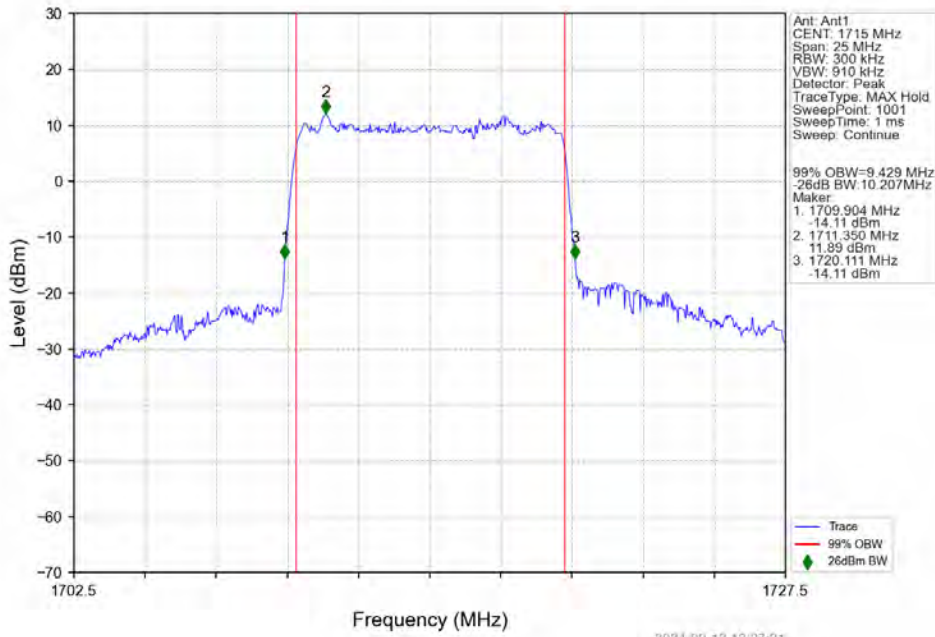
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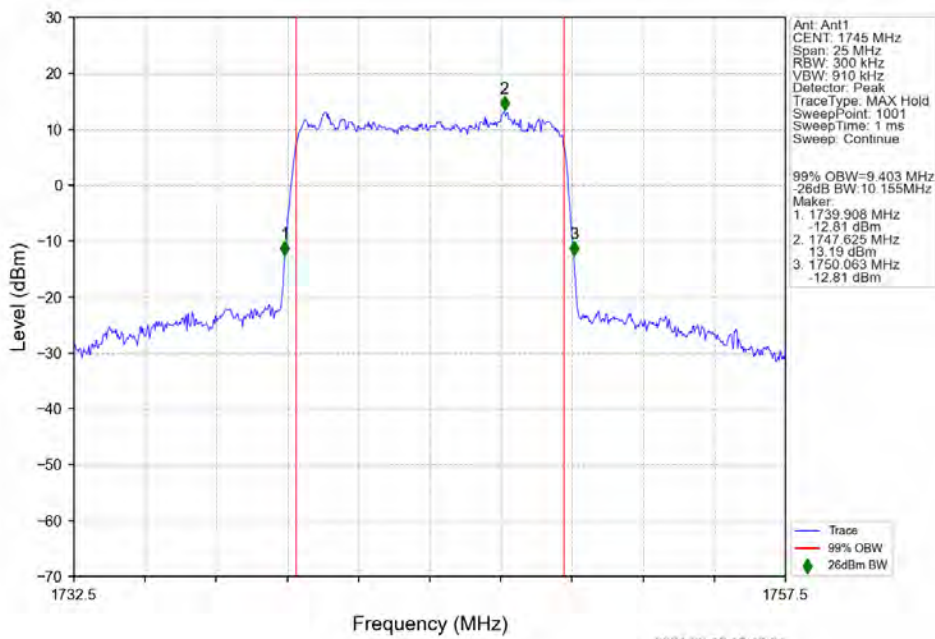
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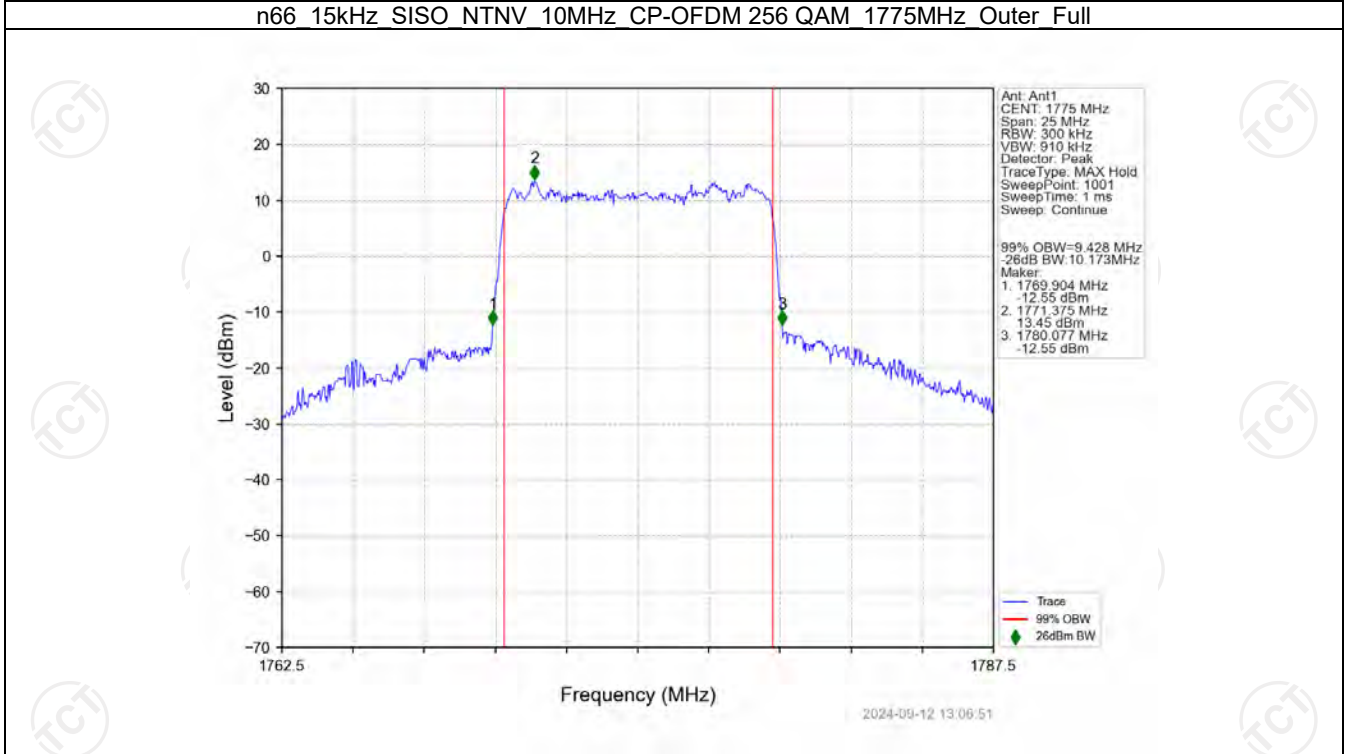
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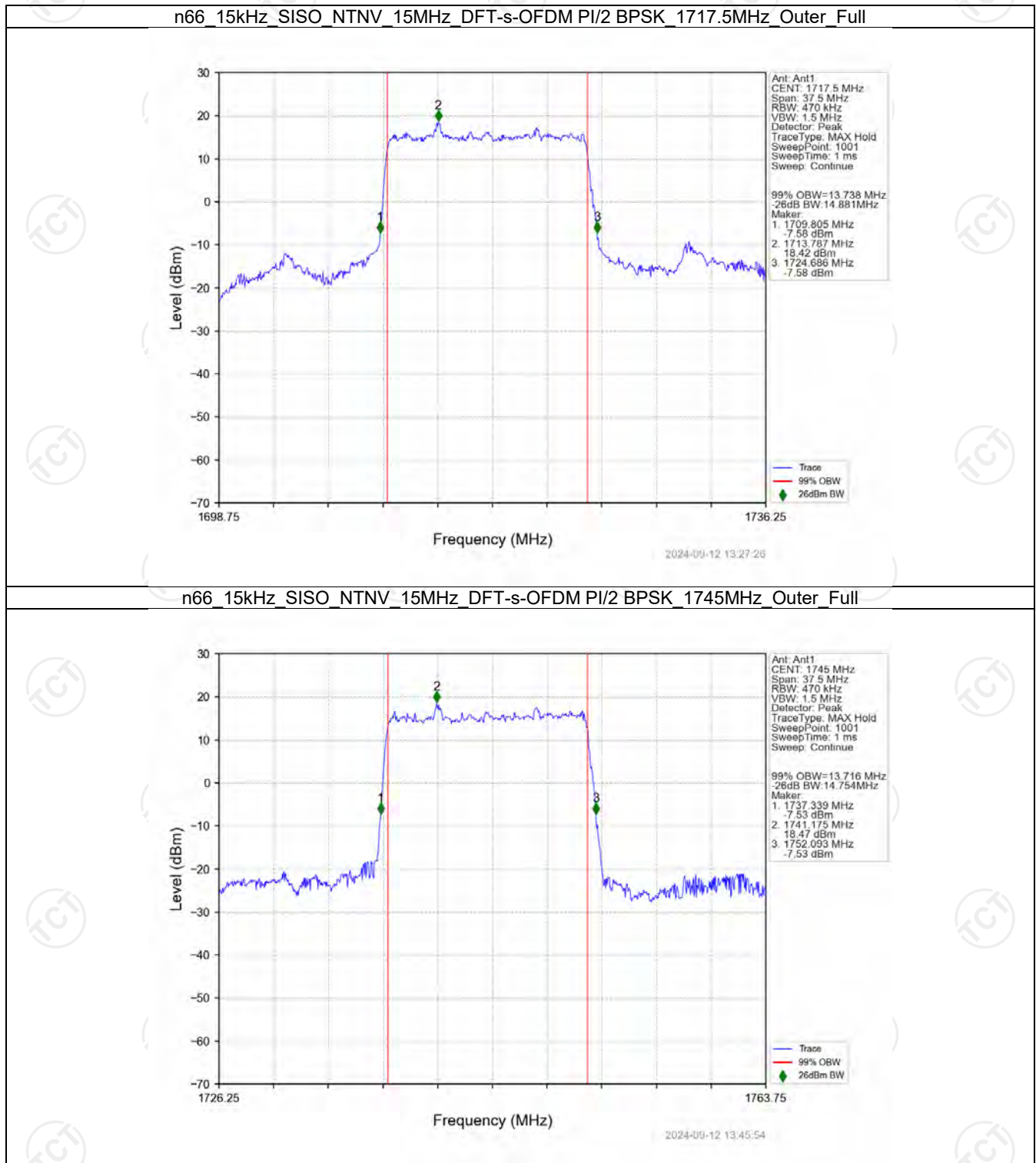
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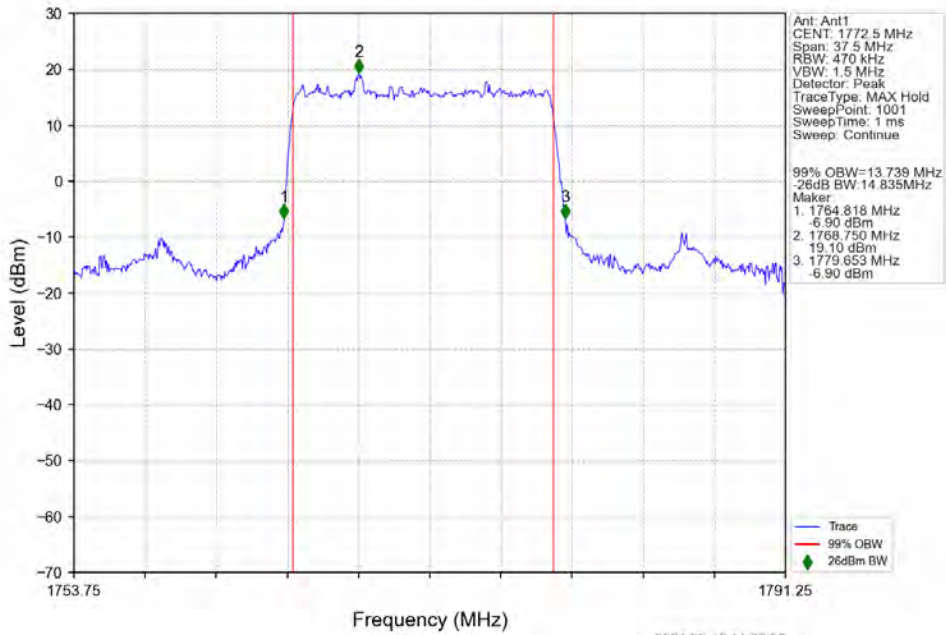
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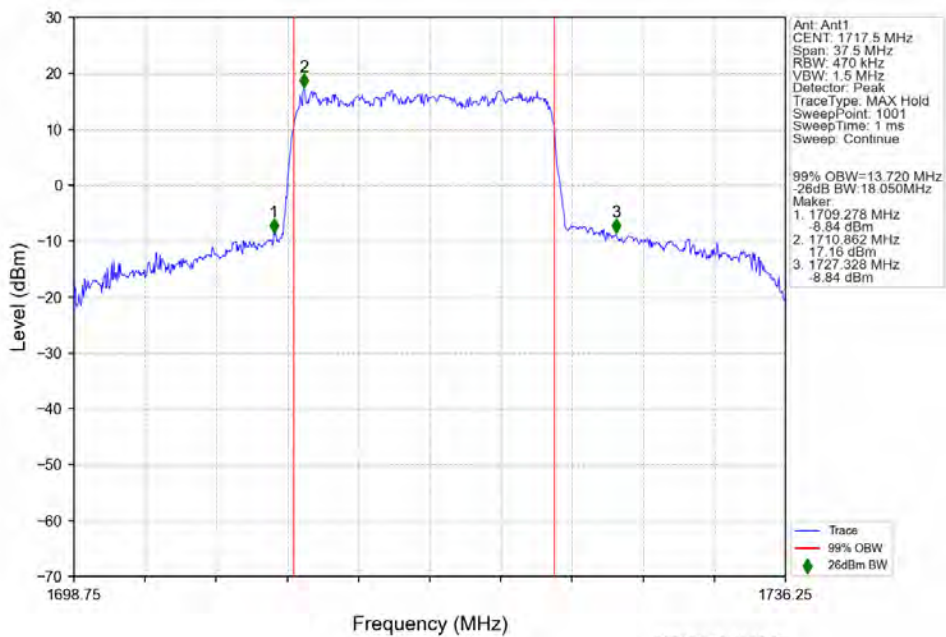
4.2.3 15k_SISO_15MHz_NTNV



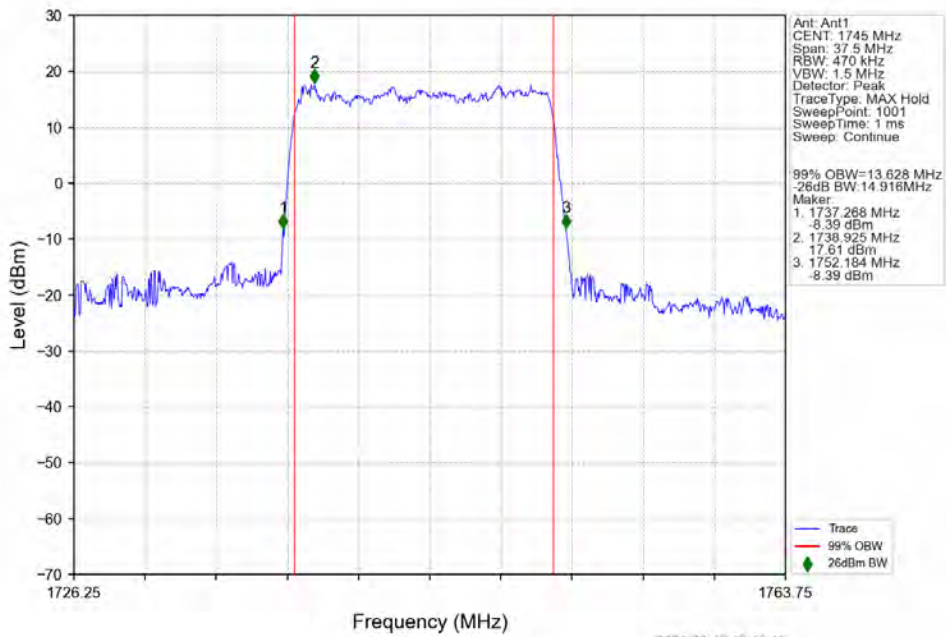
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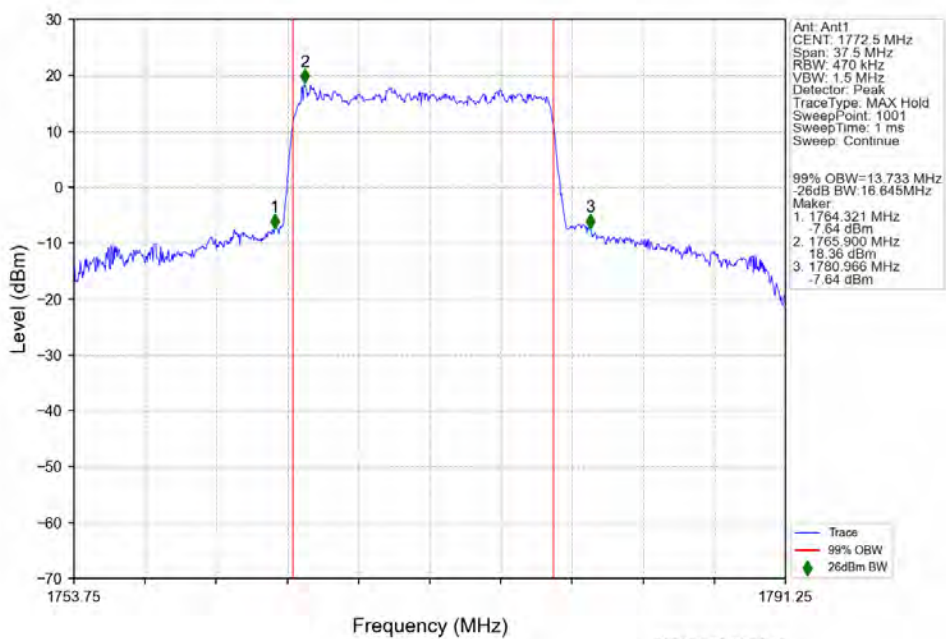
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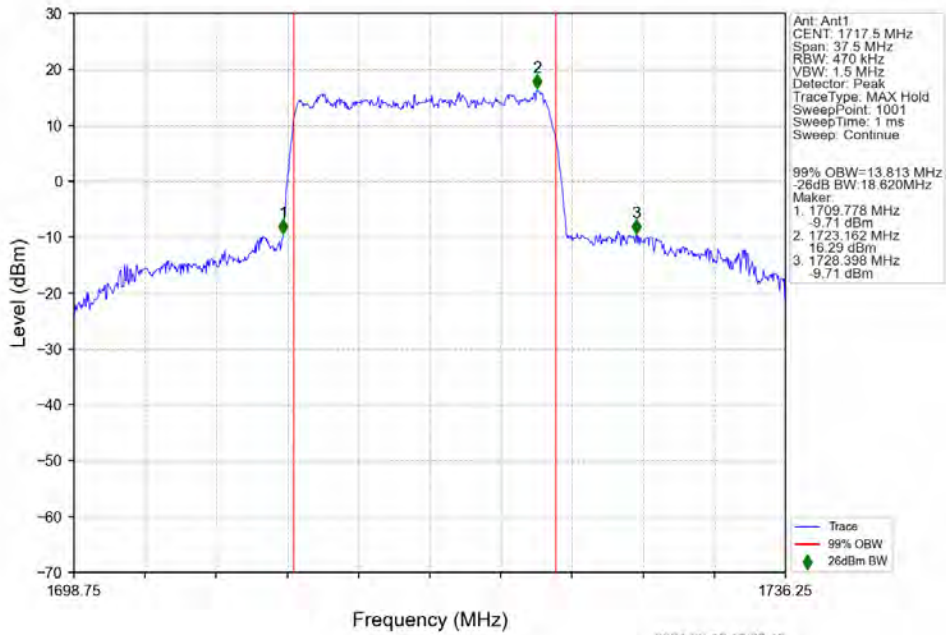
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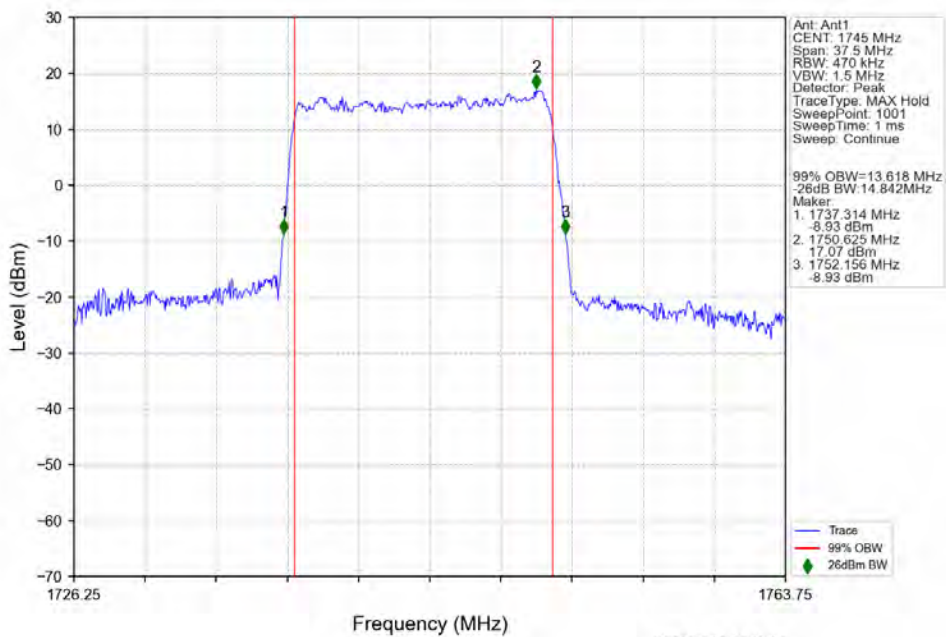
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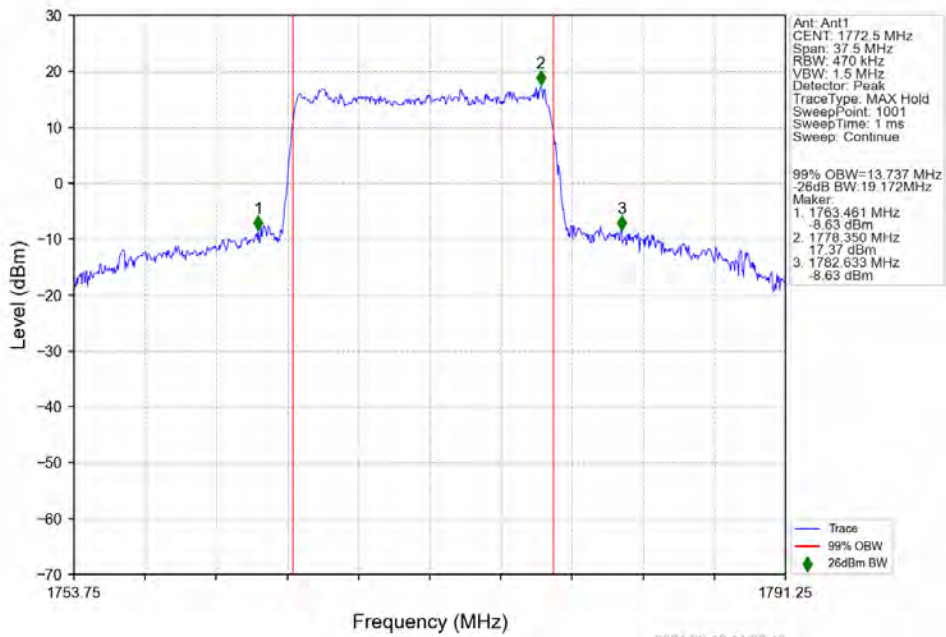
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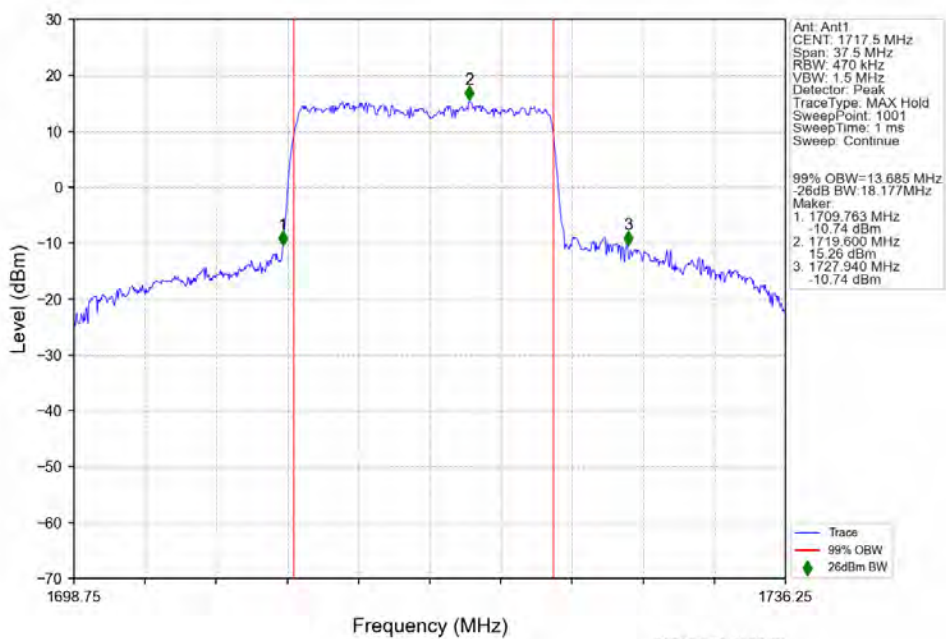
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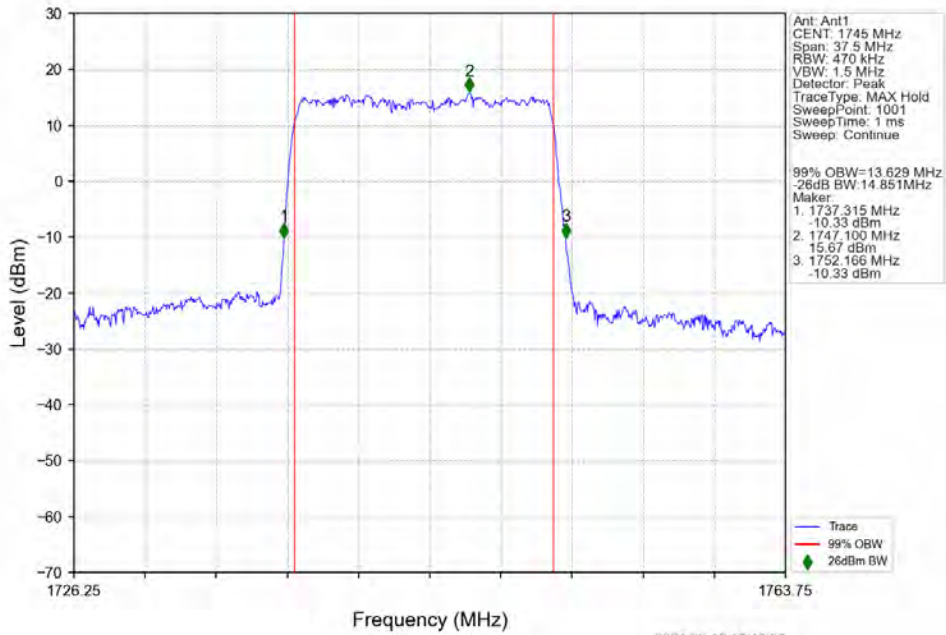
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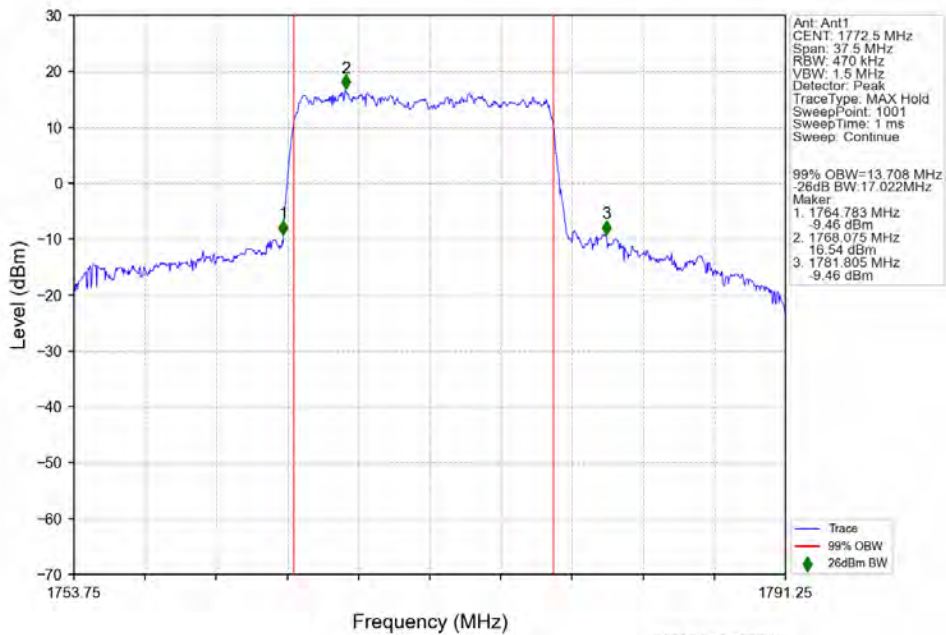
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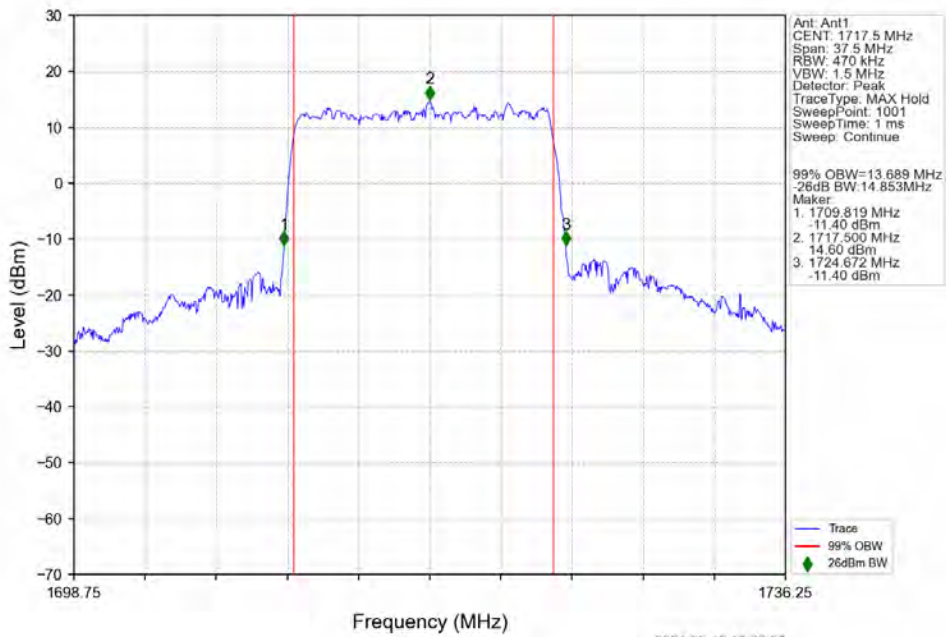
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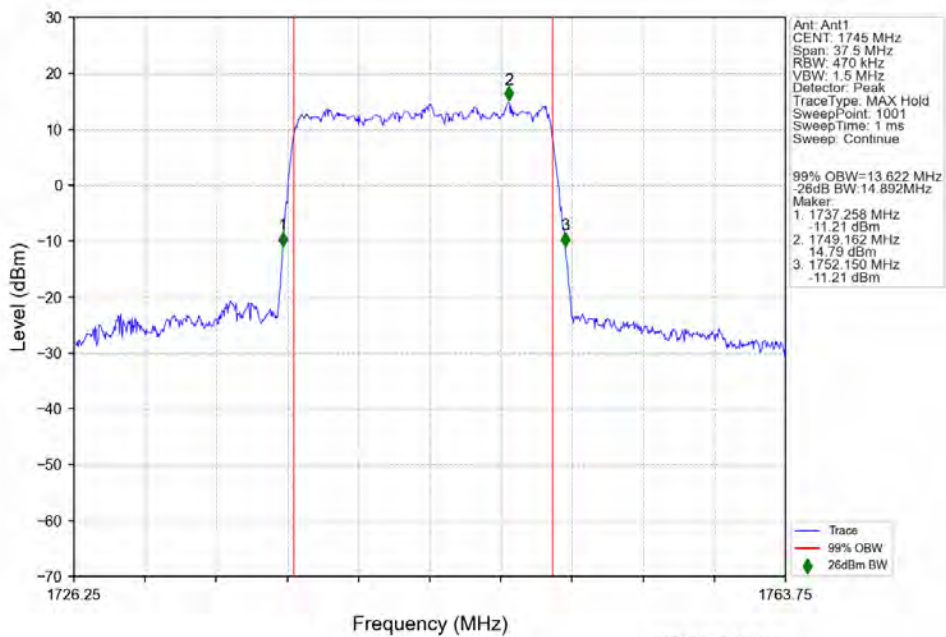
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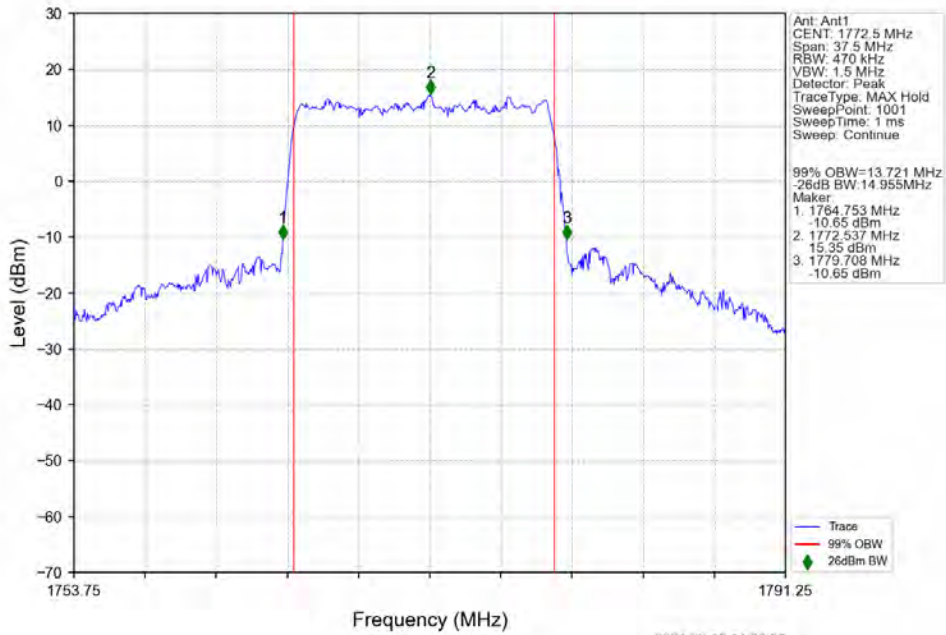
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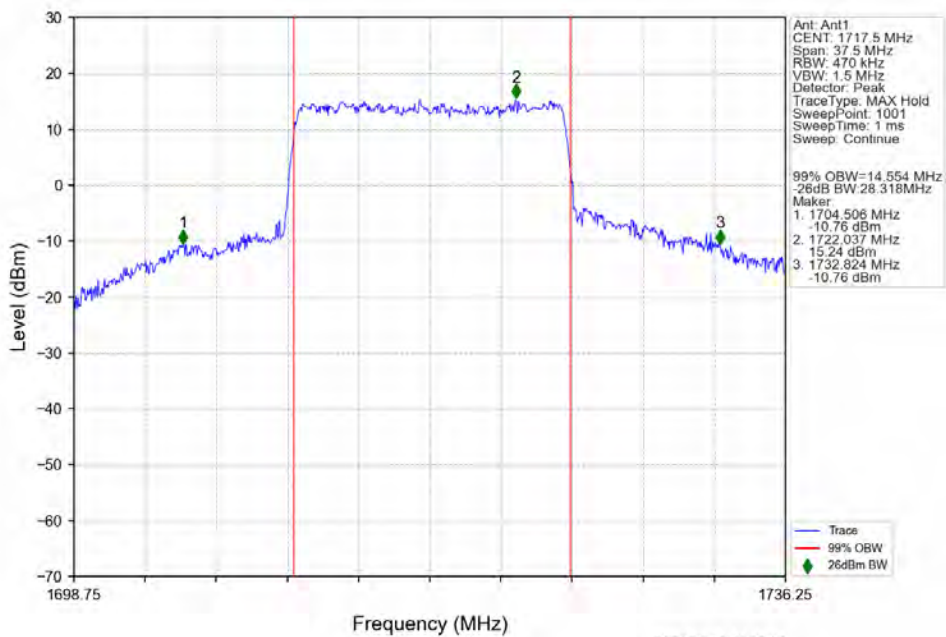
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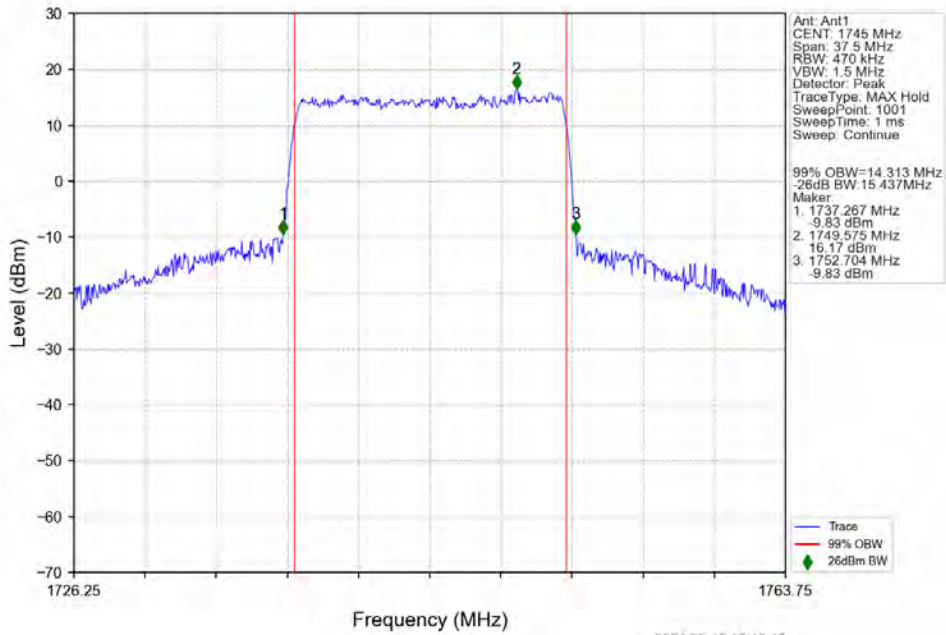
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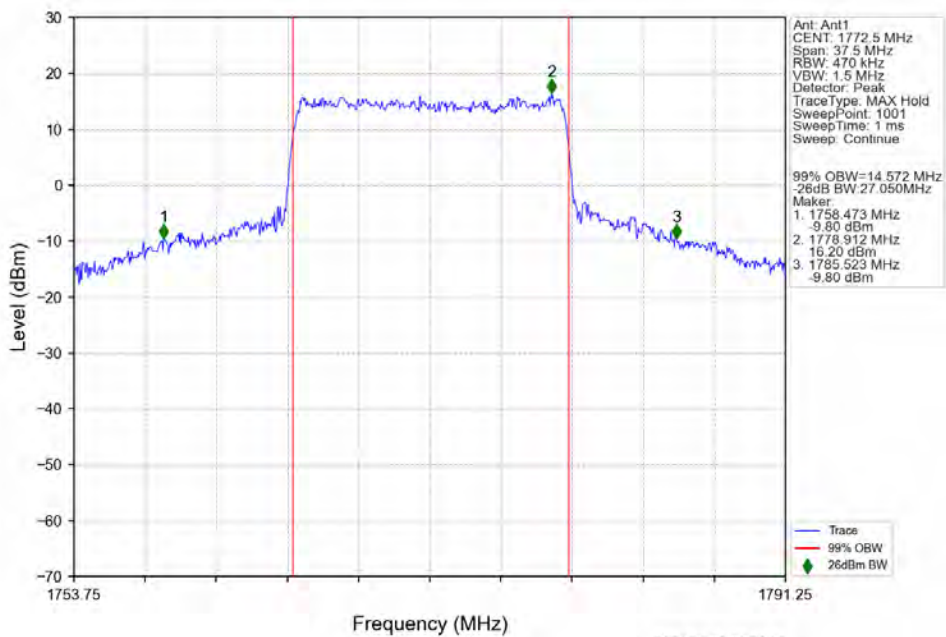
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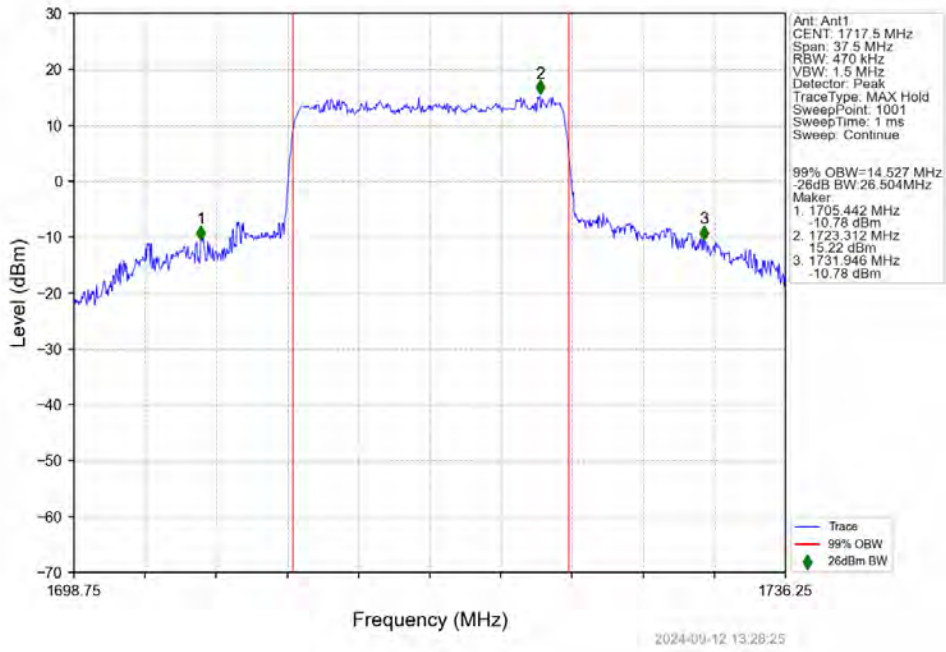
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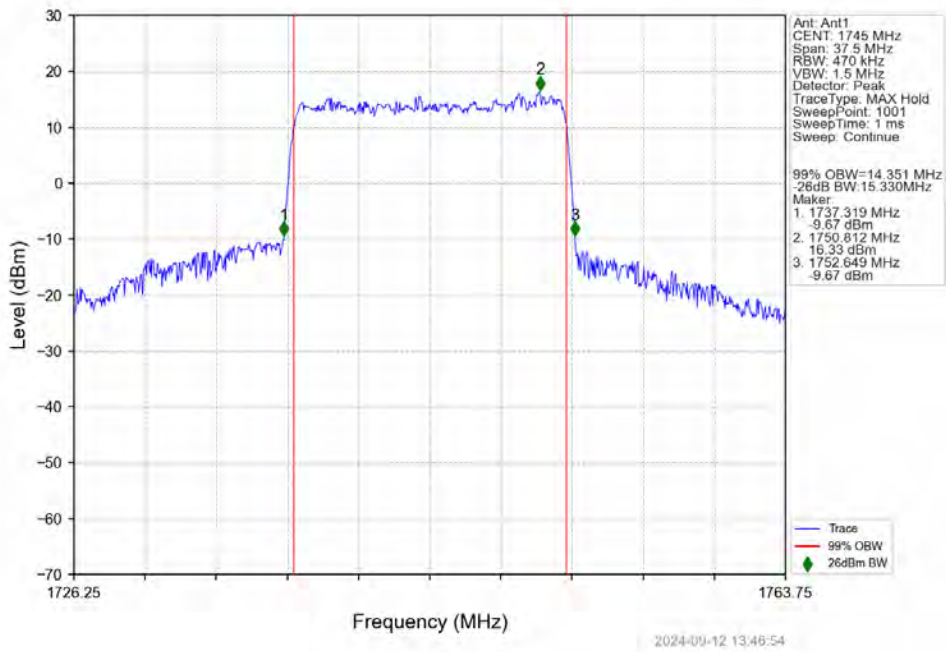
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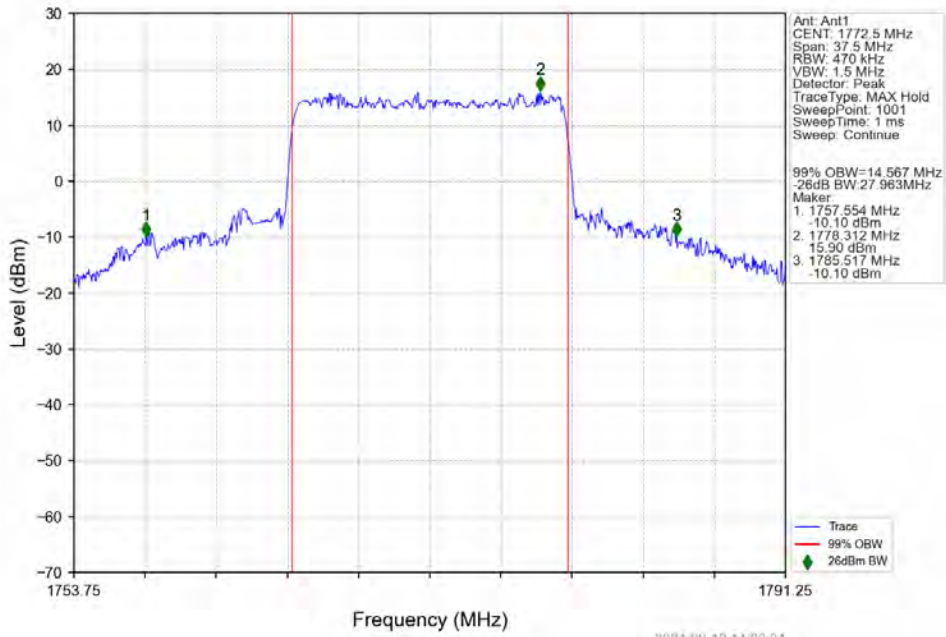
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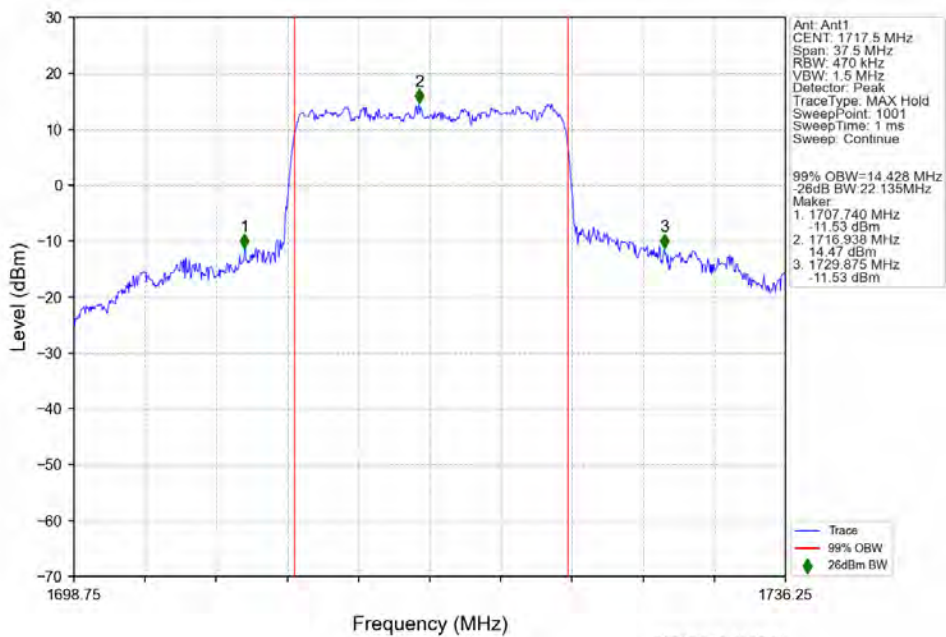
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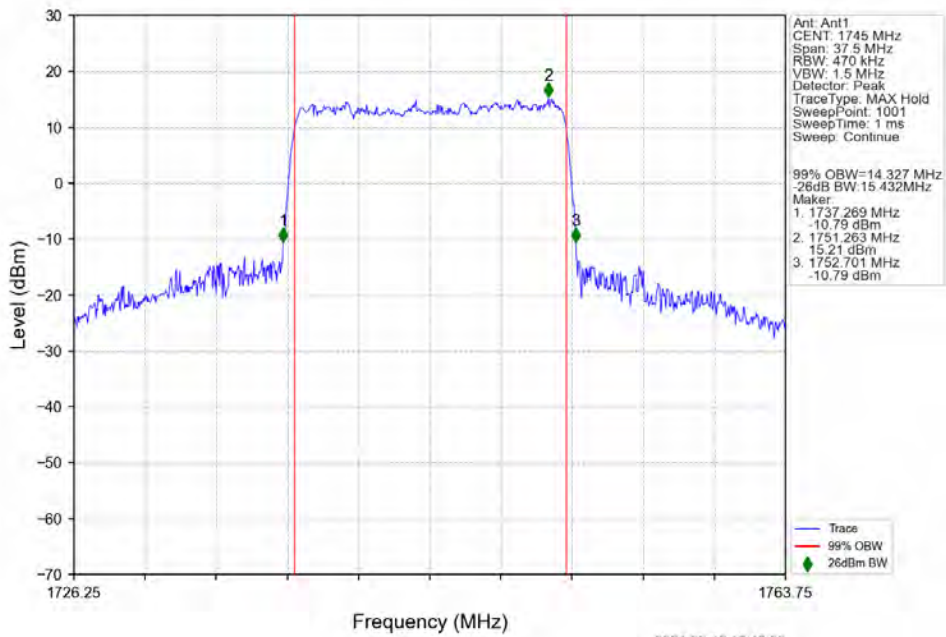
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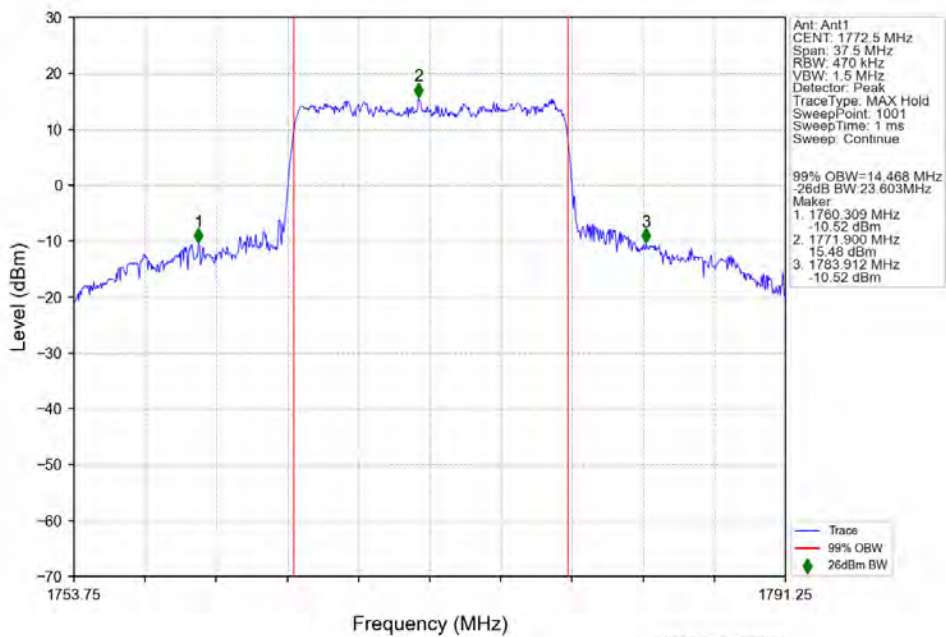
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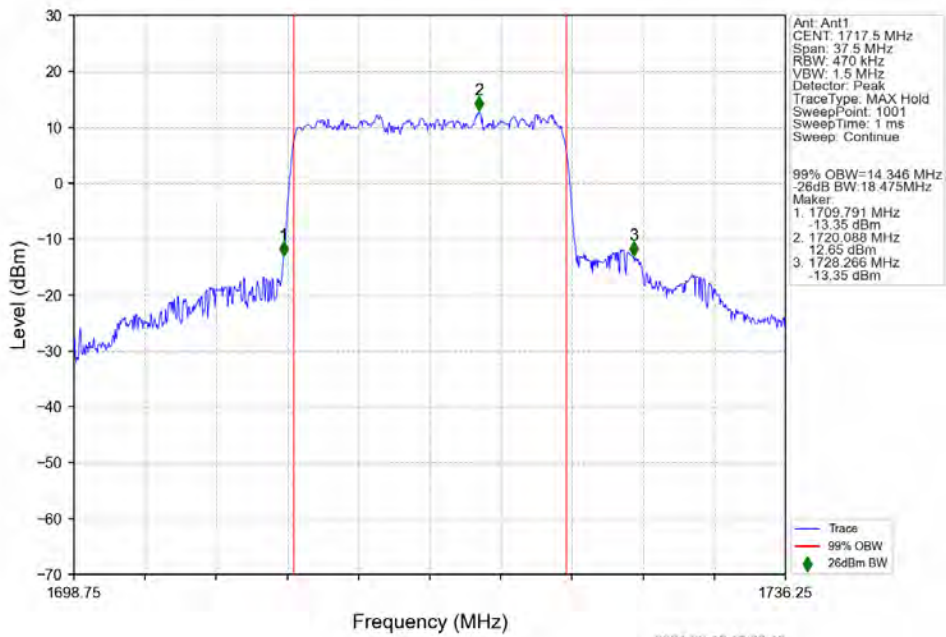
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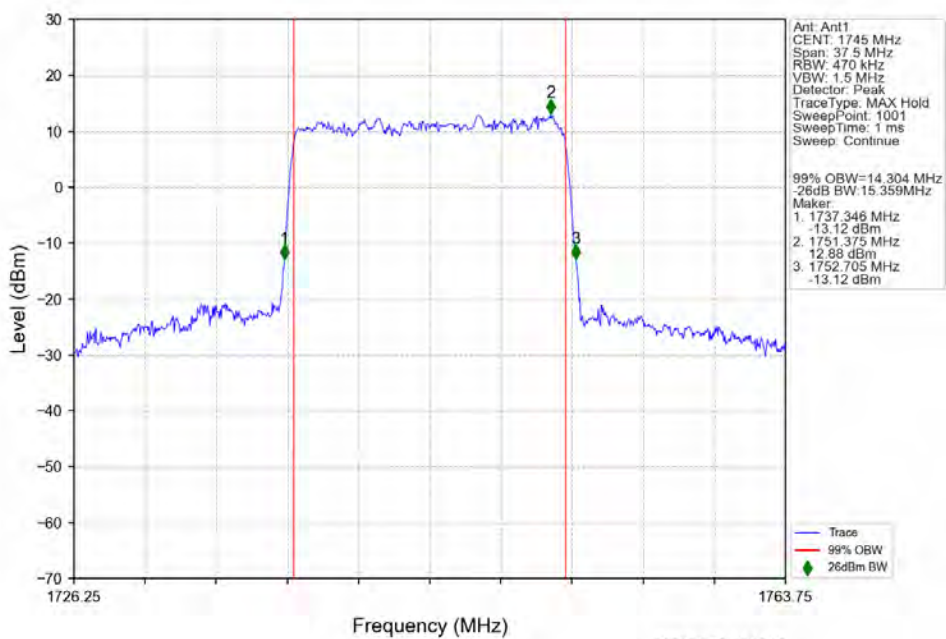
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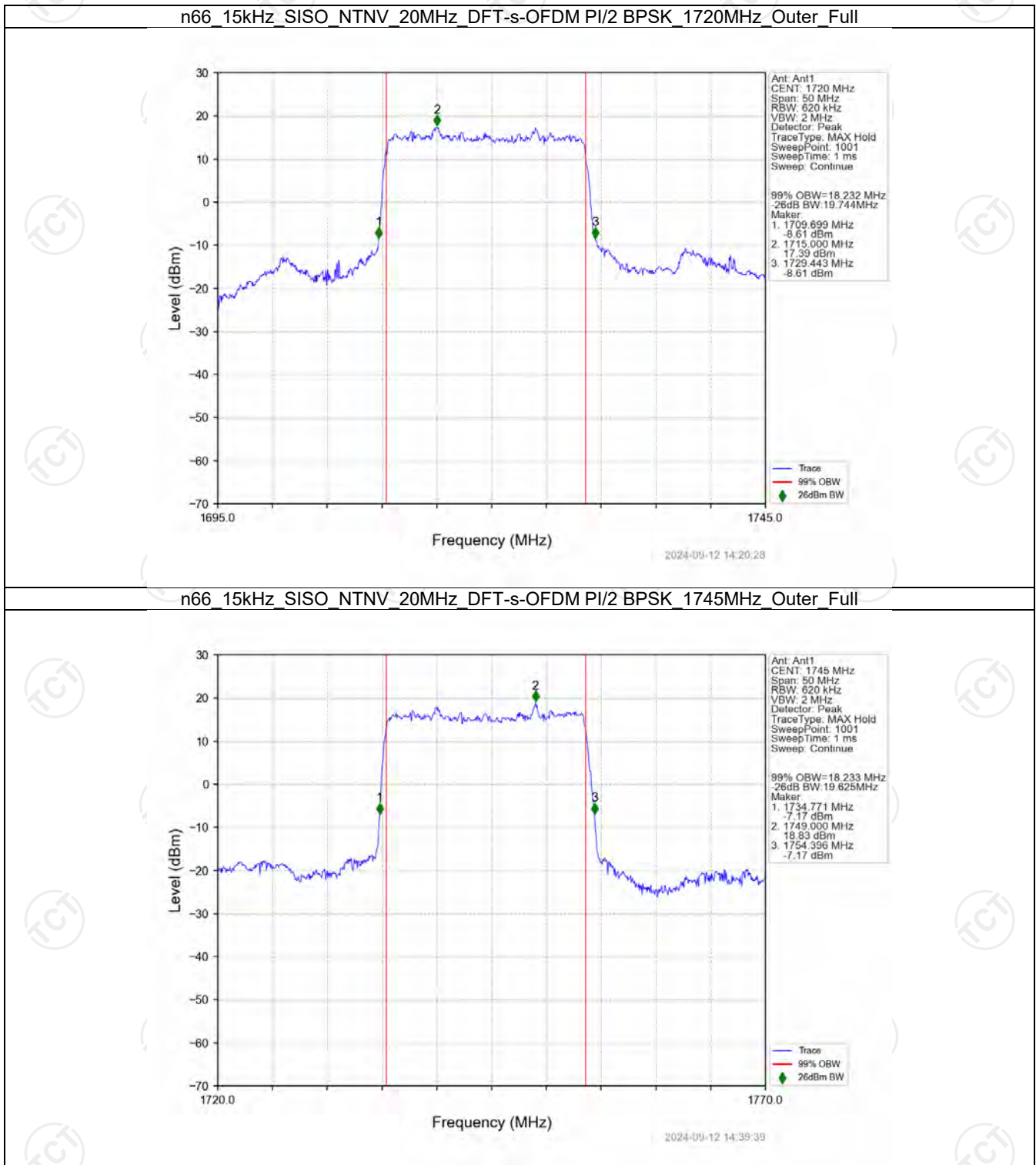
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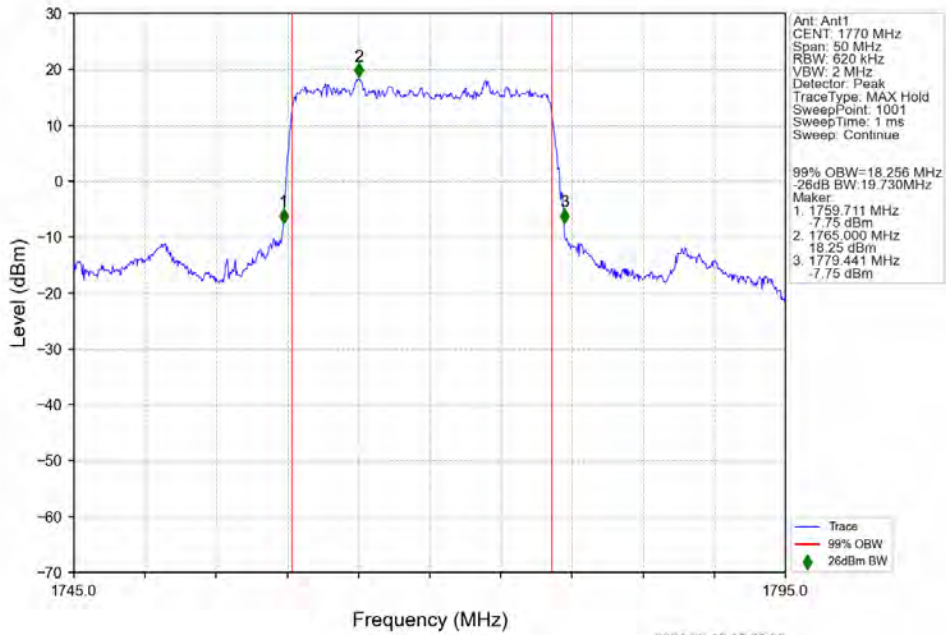
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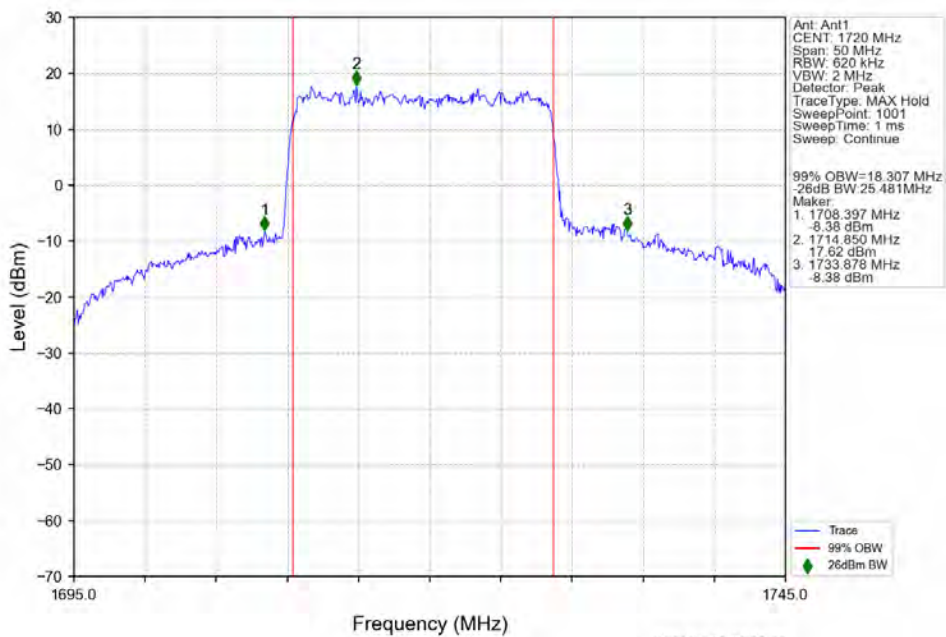
4.2.4 15k_SISO_20MHz_NTNV



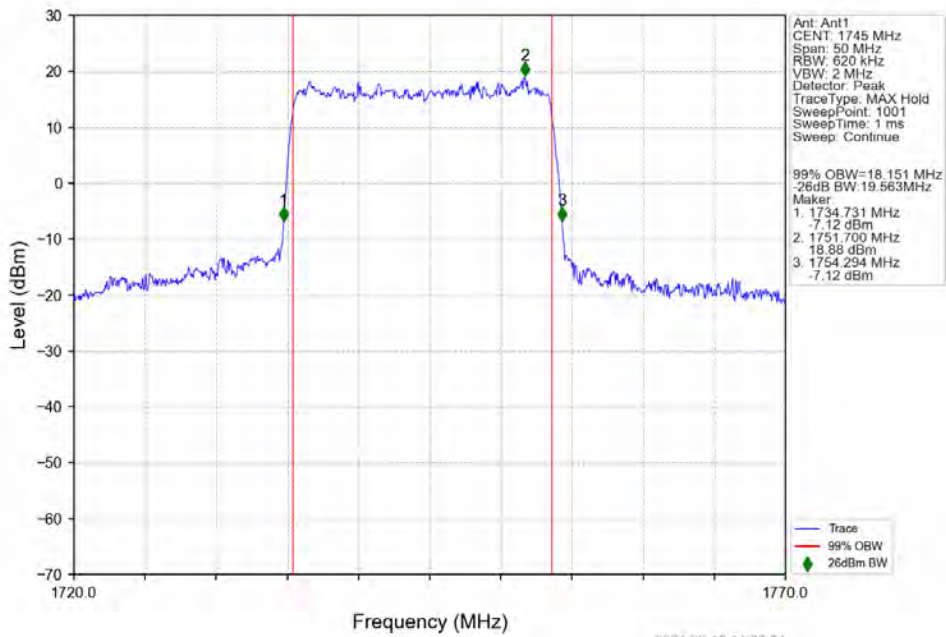
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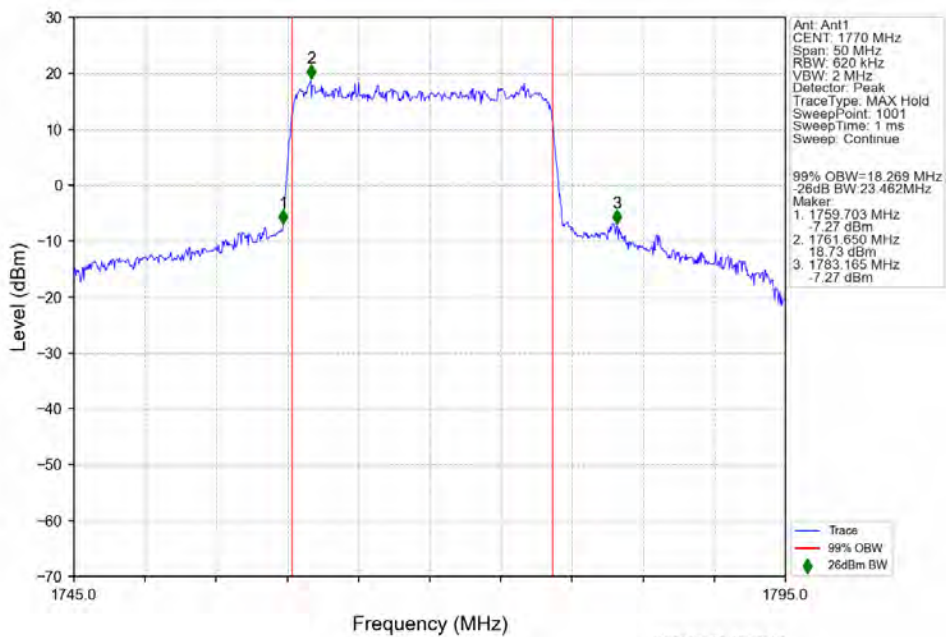
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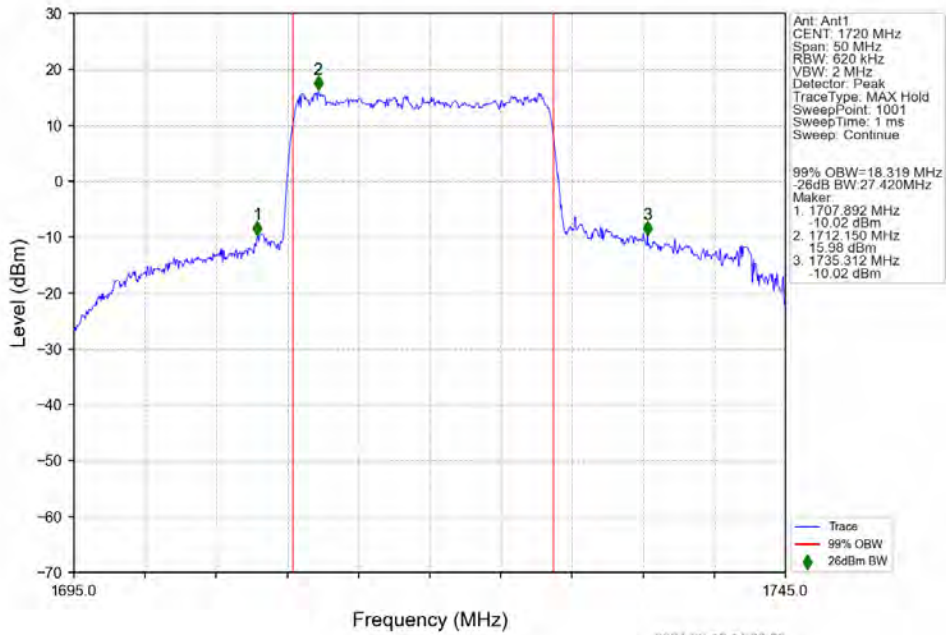
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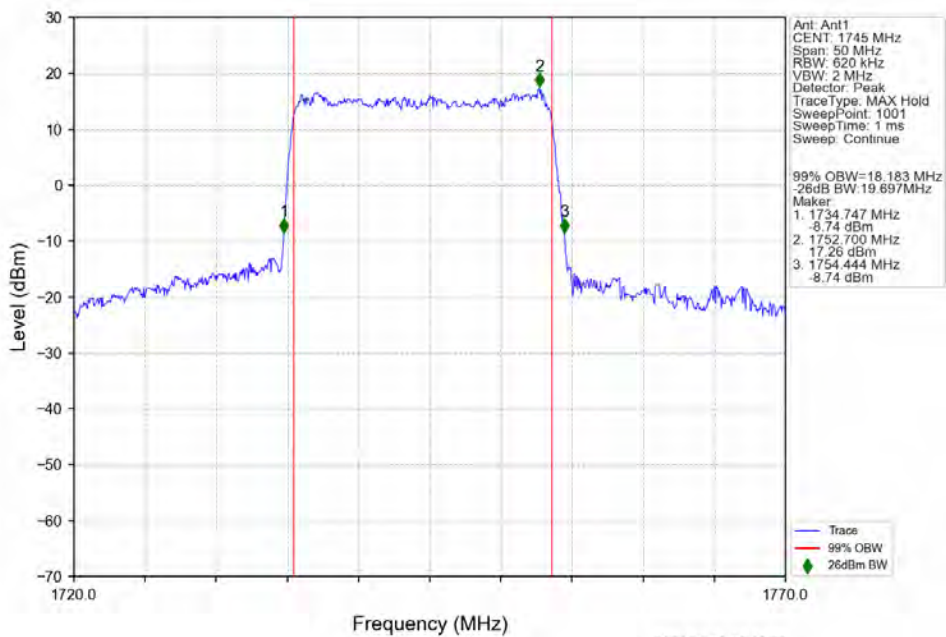
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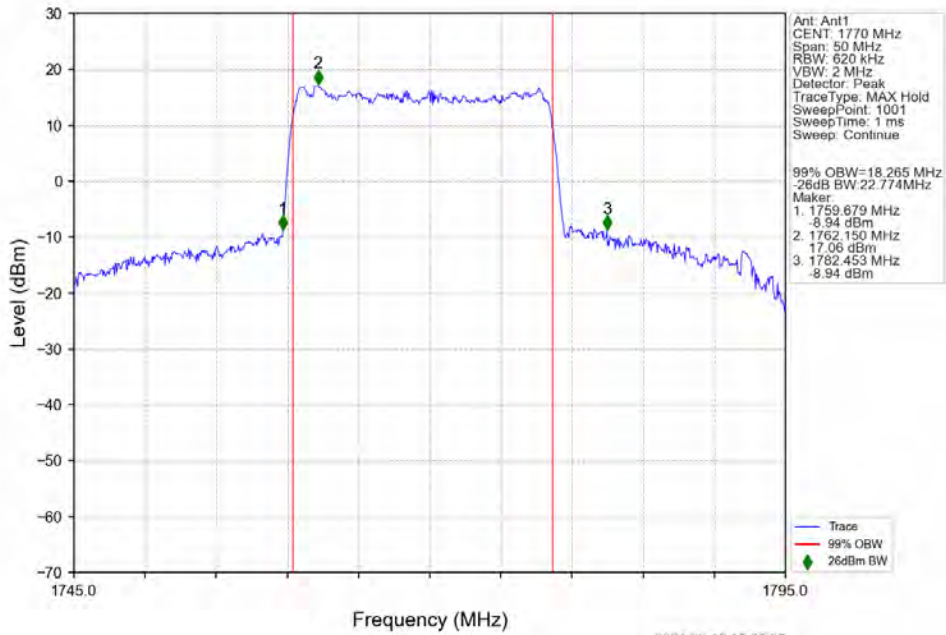
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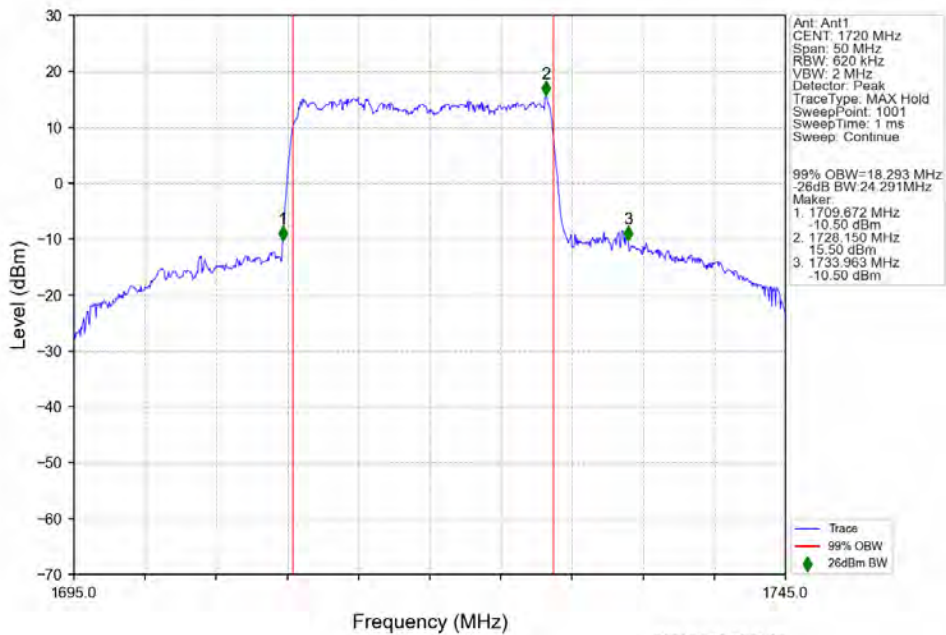
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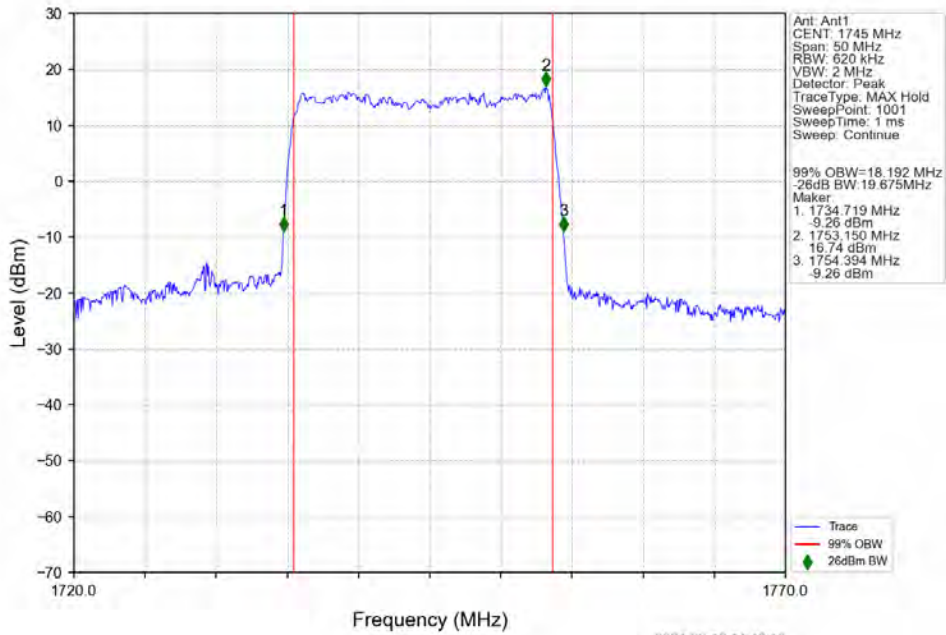
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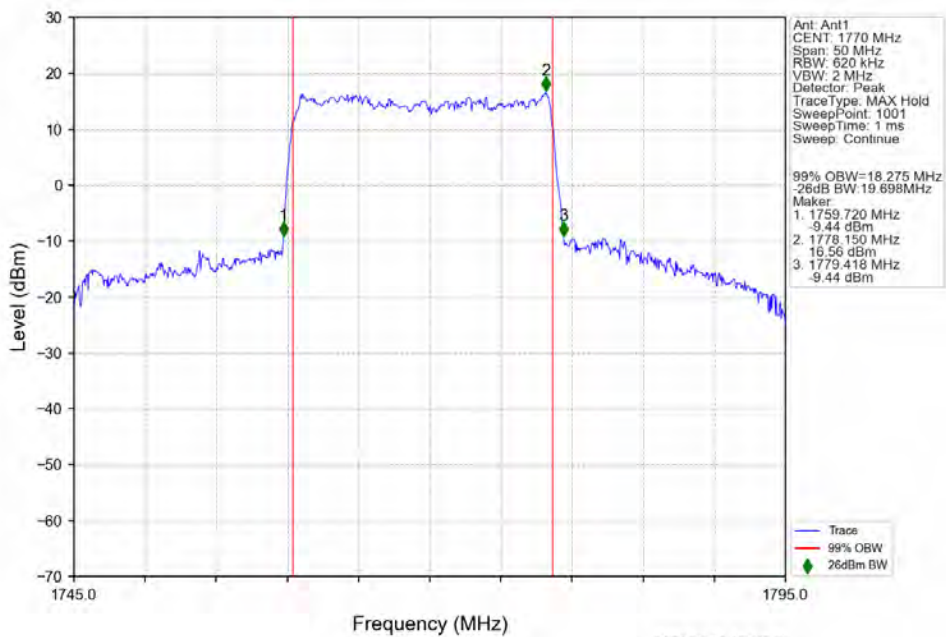
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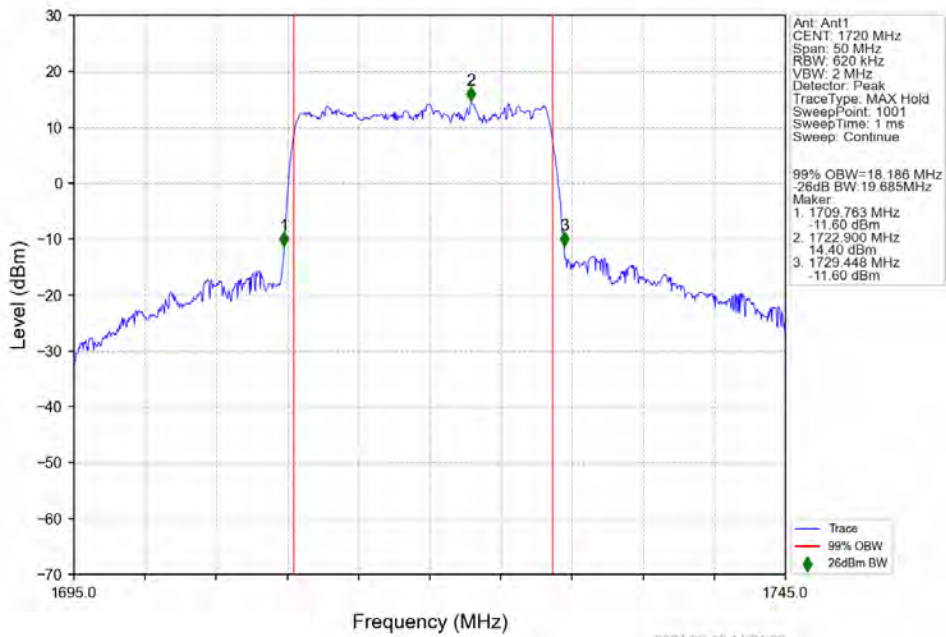
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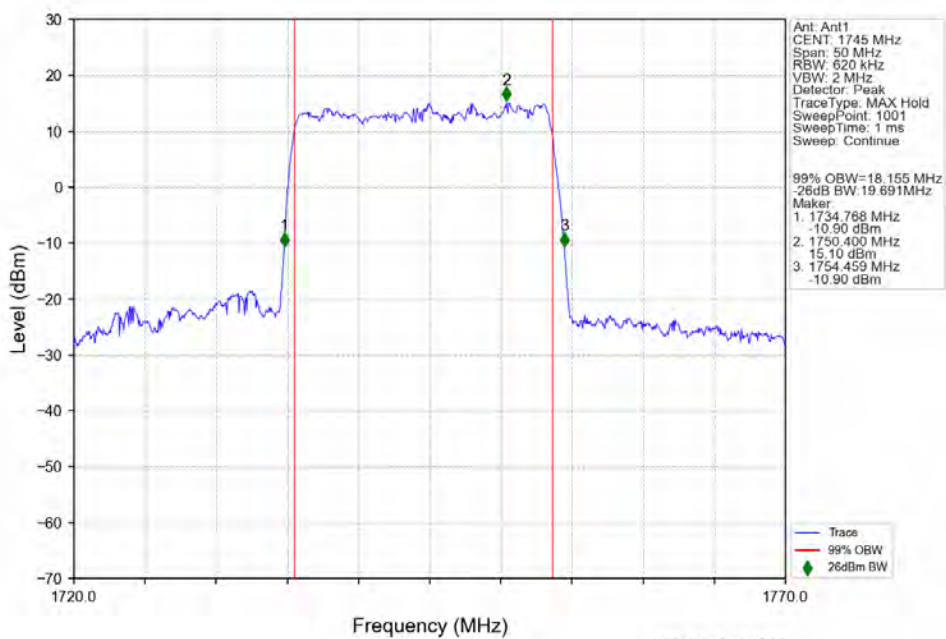
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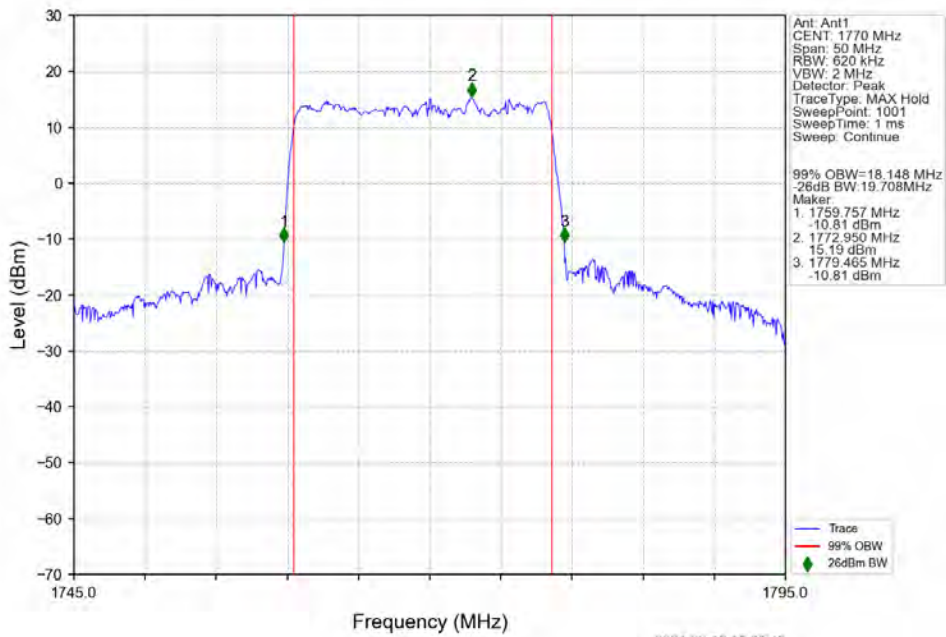
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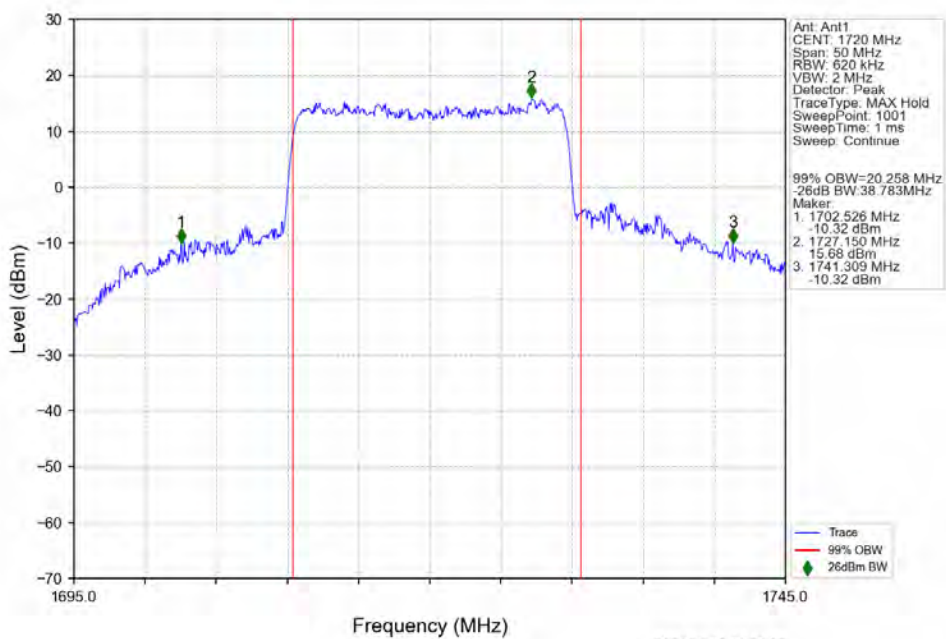
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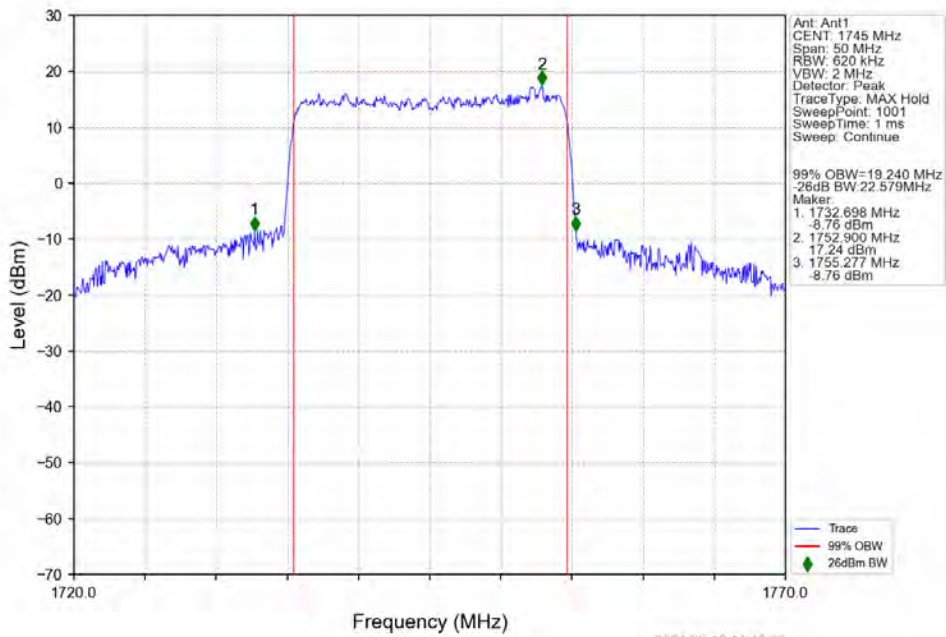
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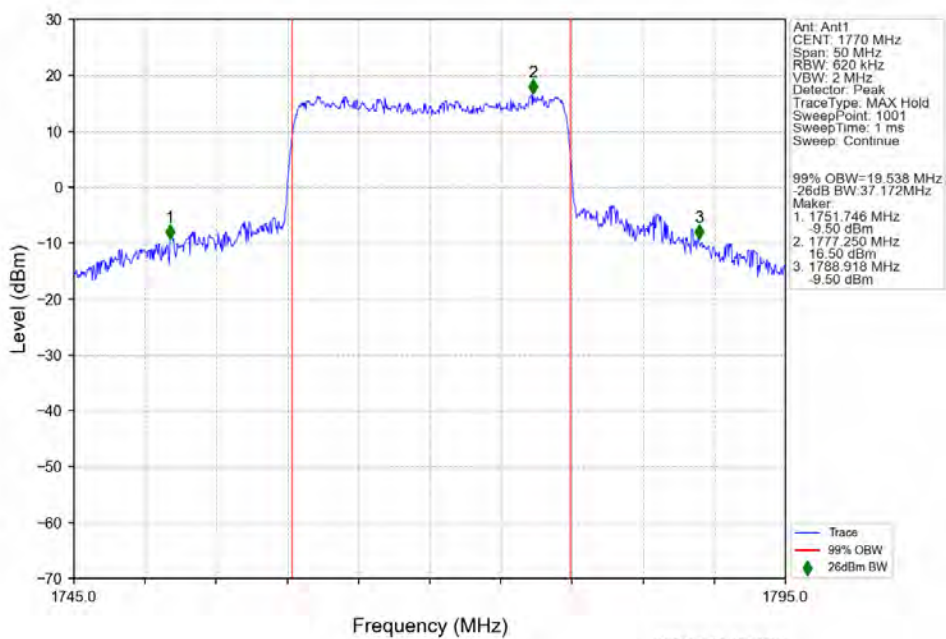
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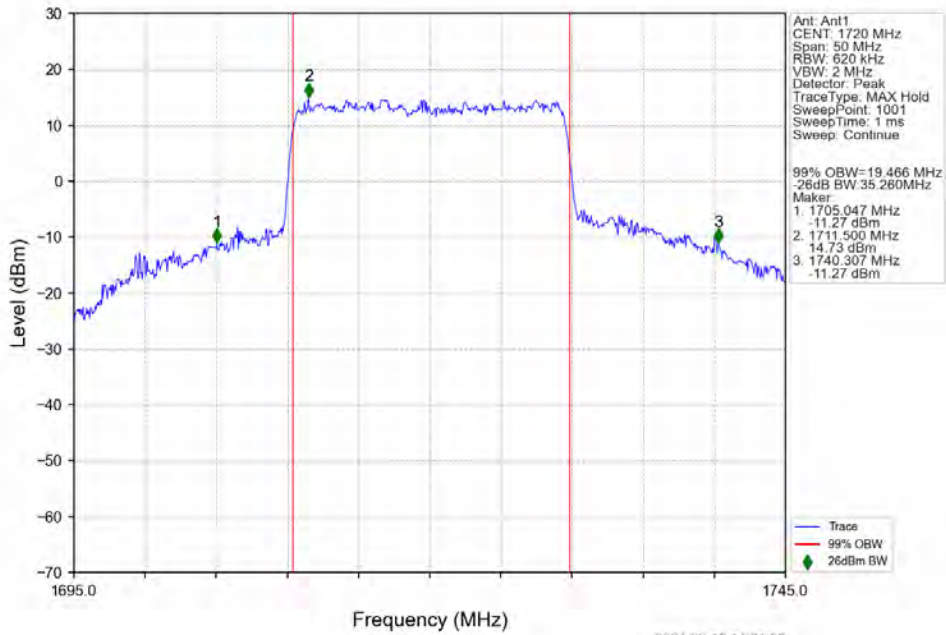
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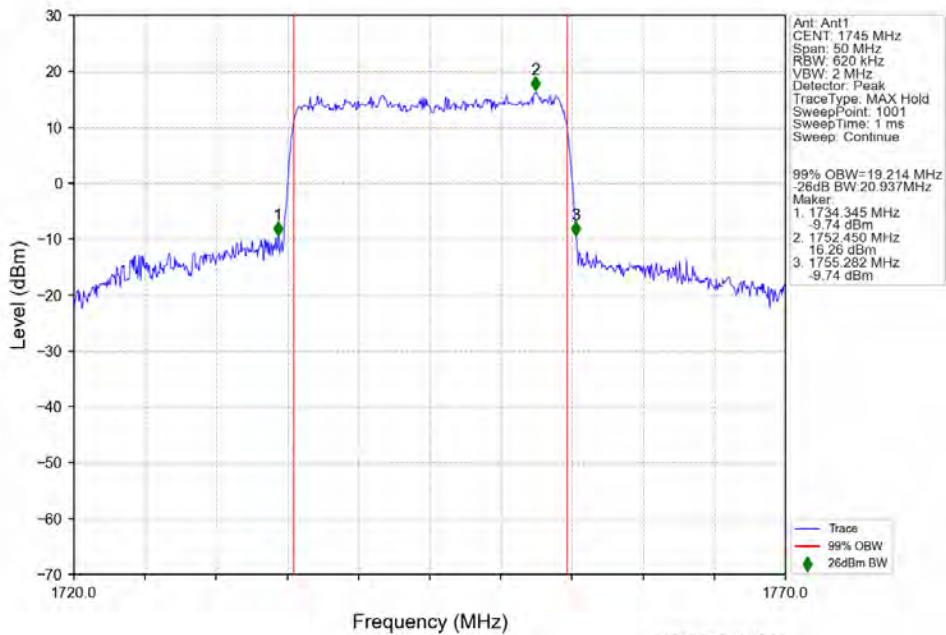
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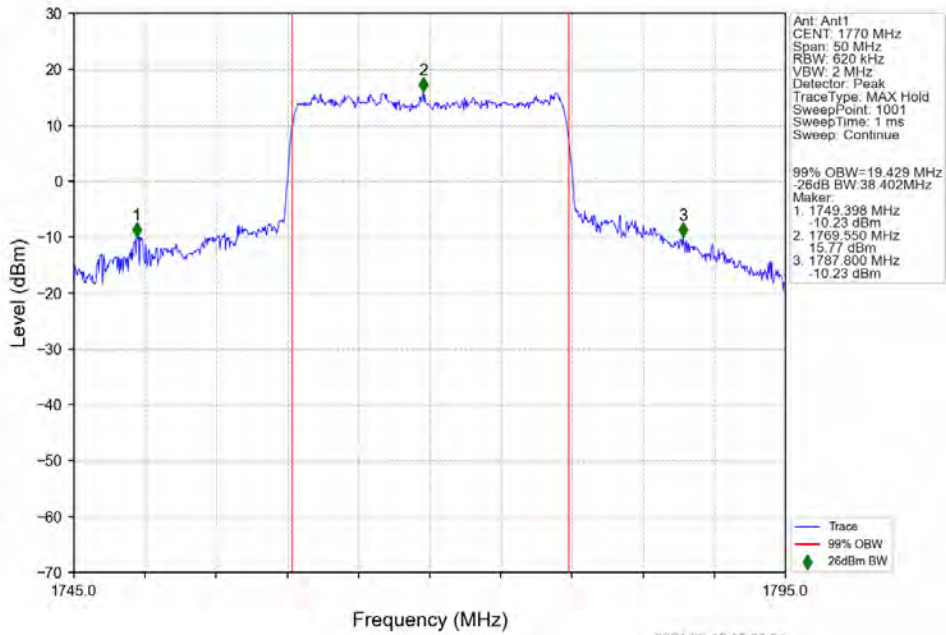
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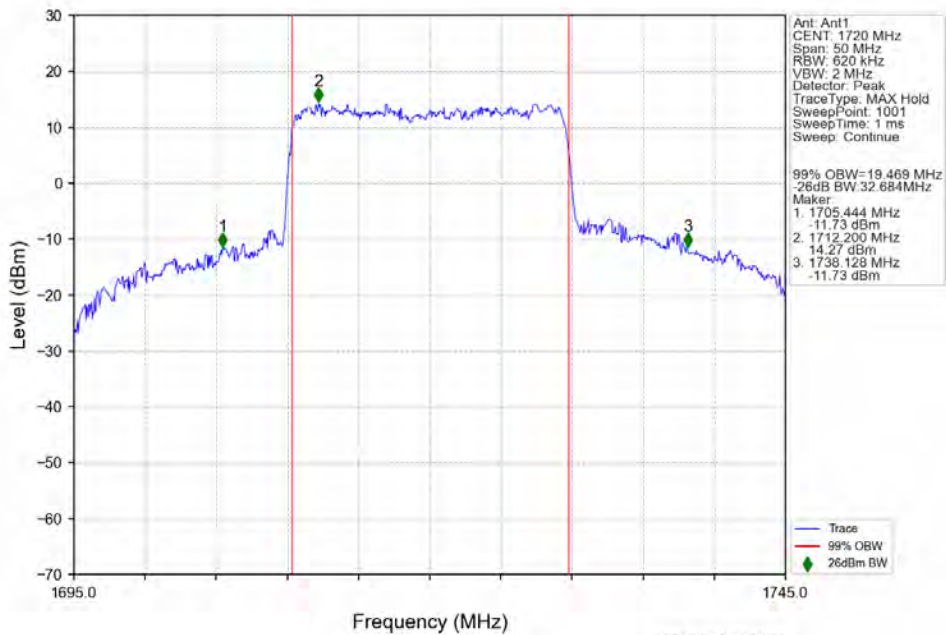
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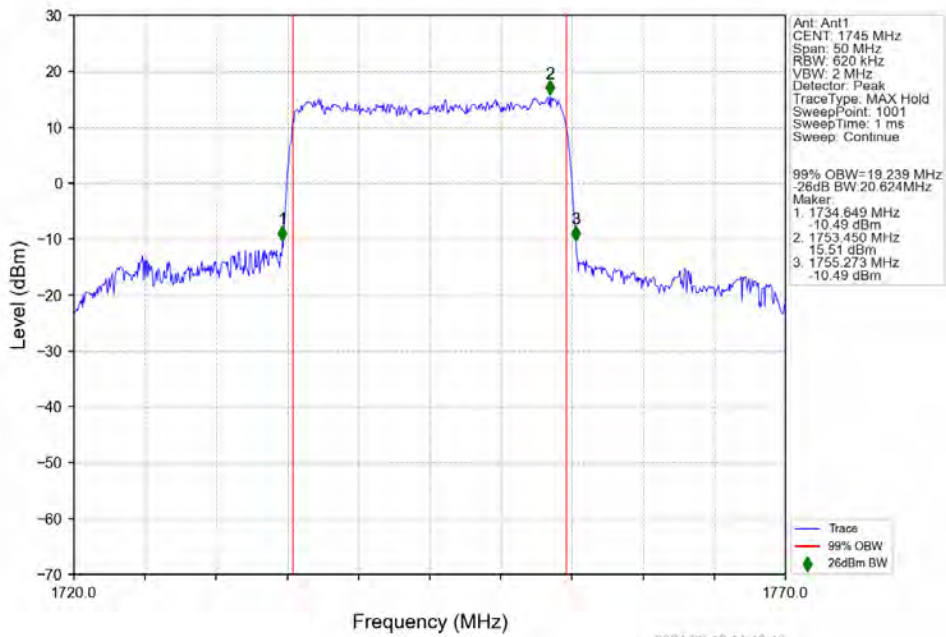
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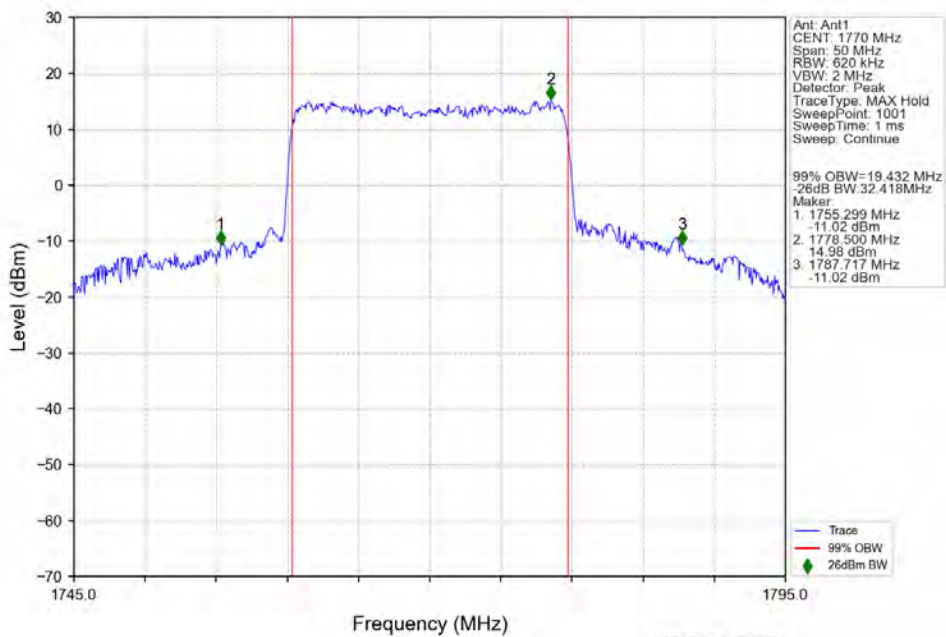
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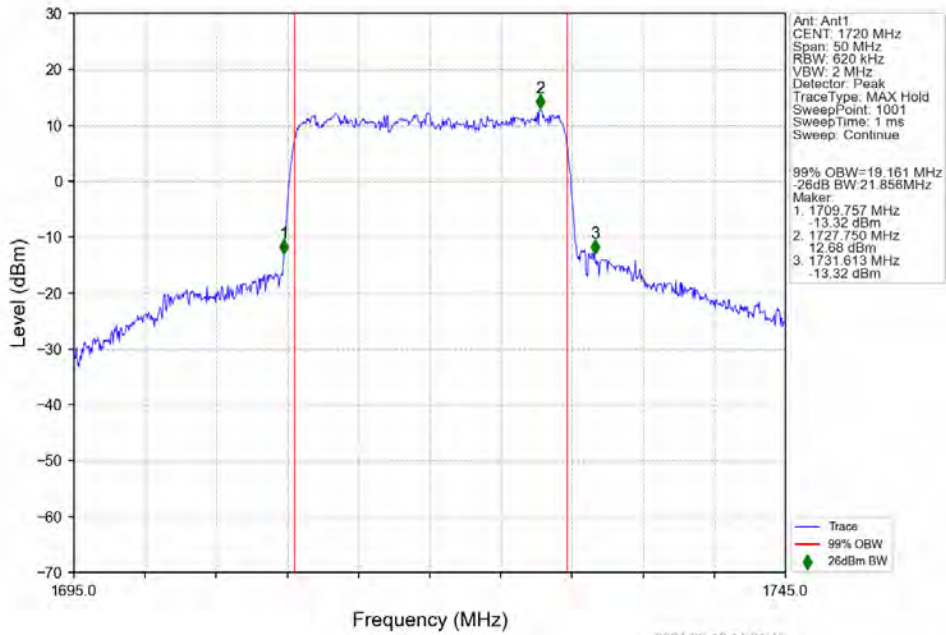
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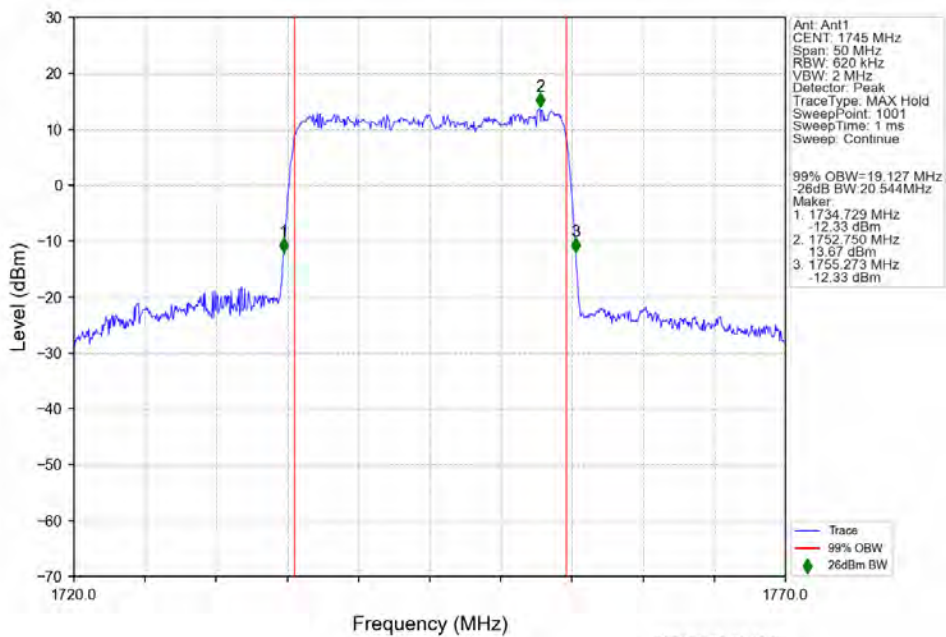
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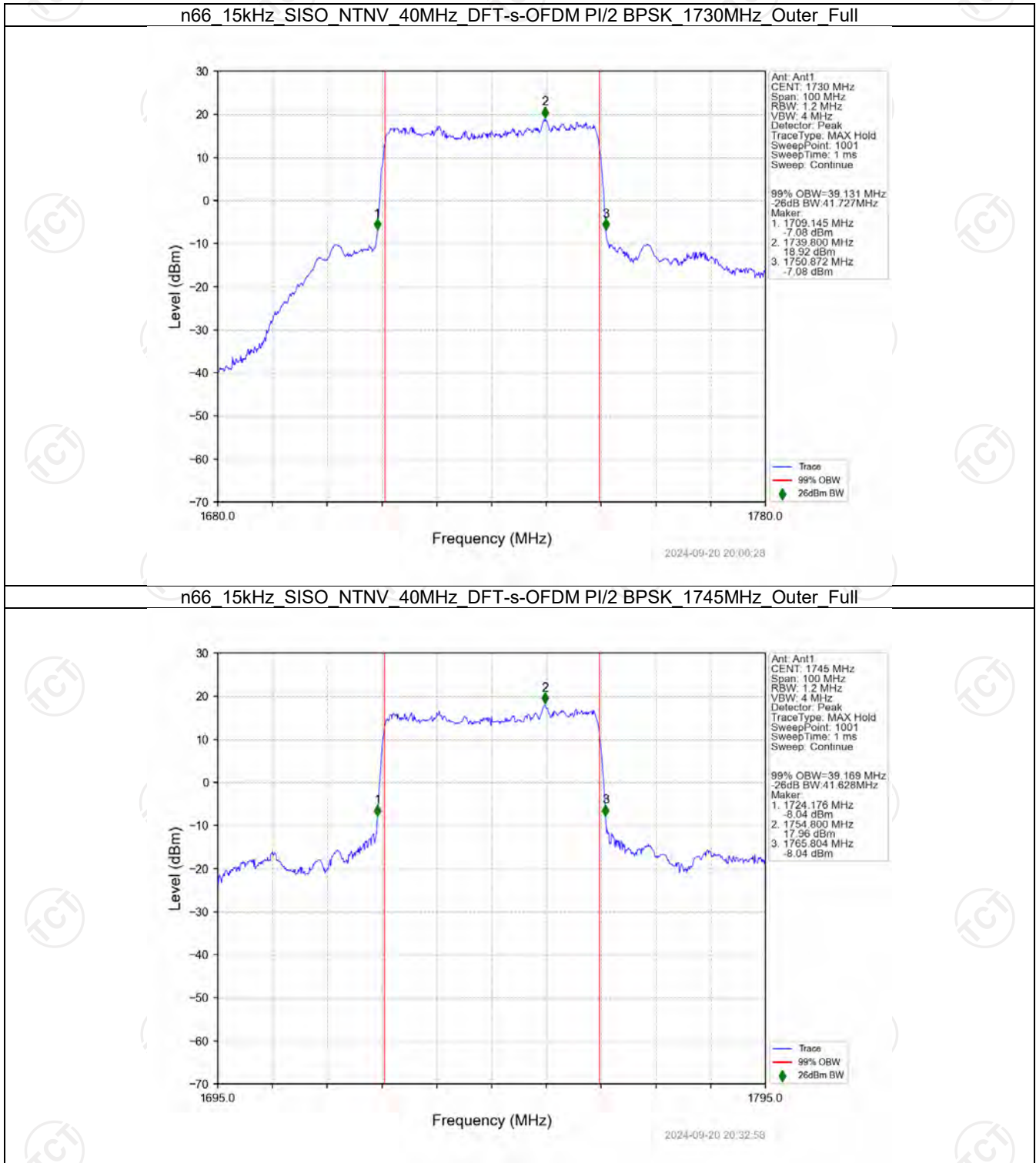
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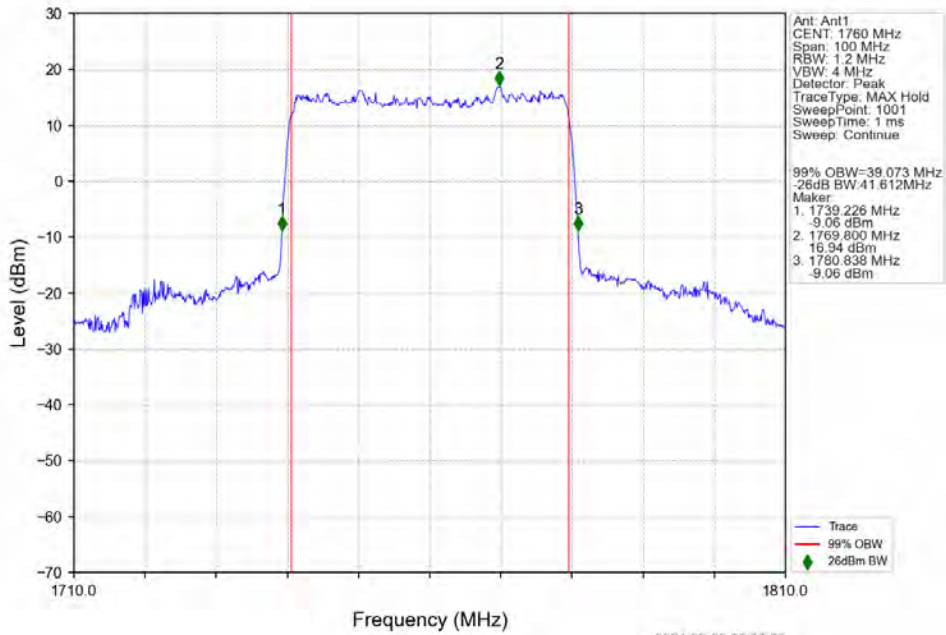
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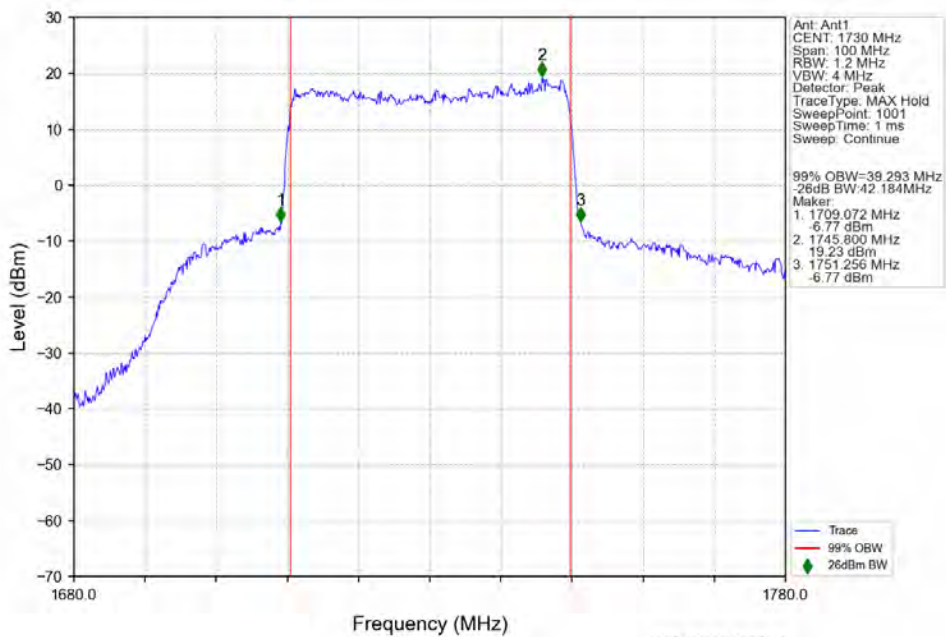
4.2.5 15k_SISO_40MHz_NTNV



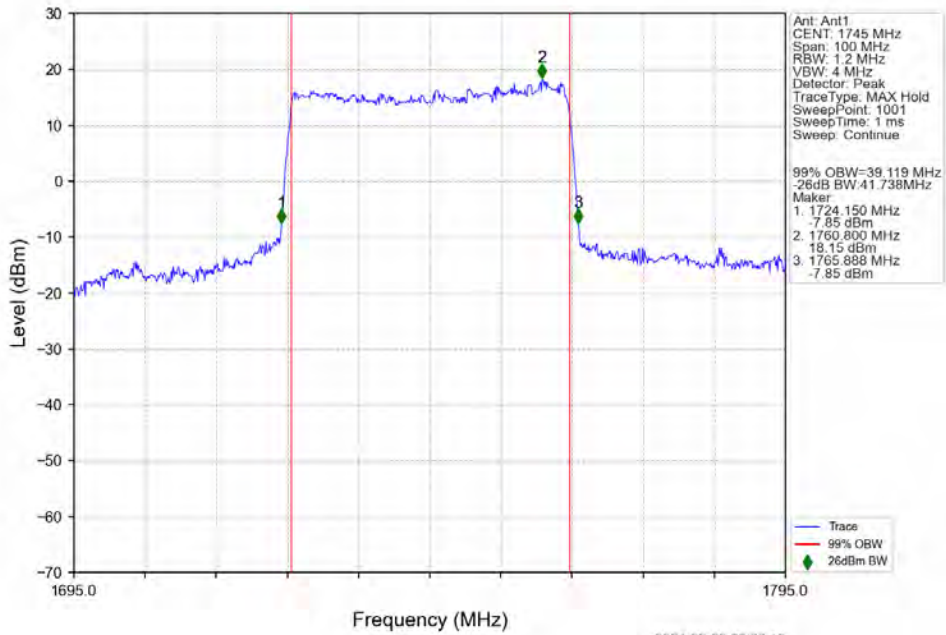
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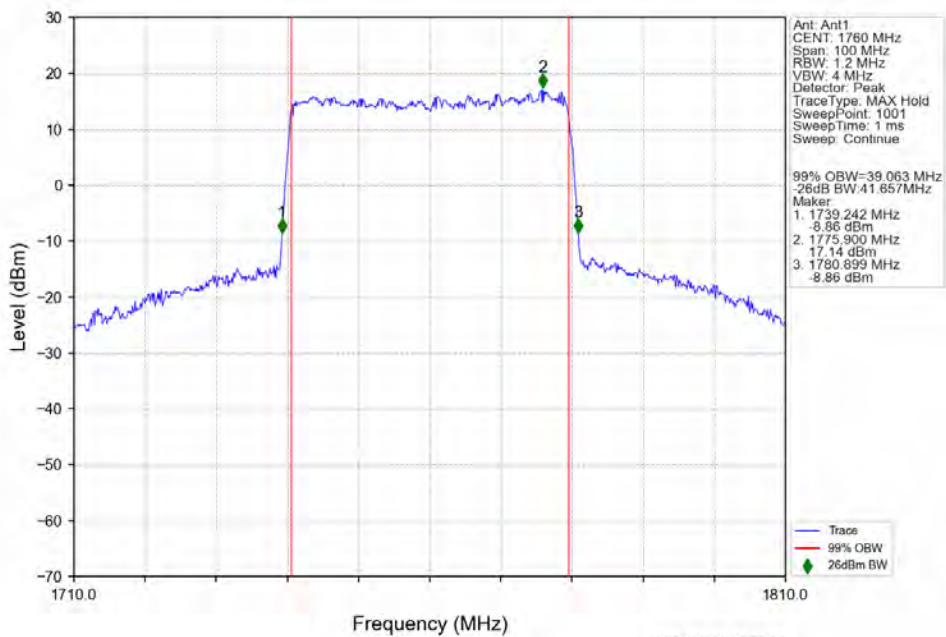
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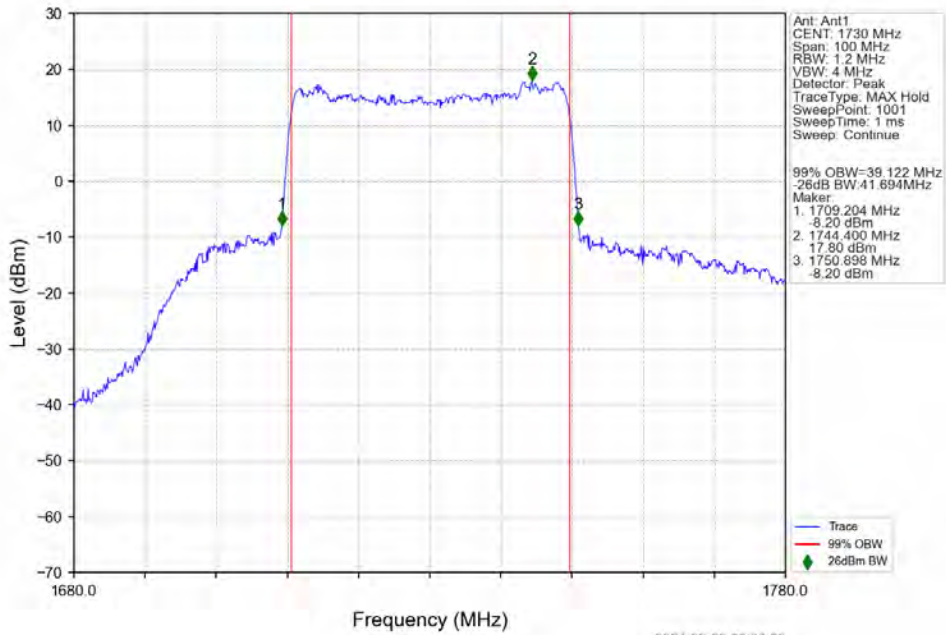
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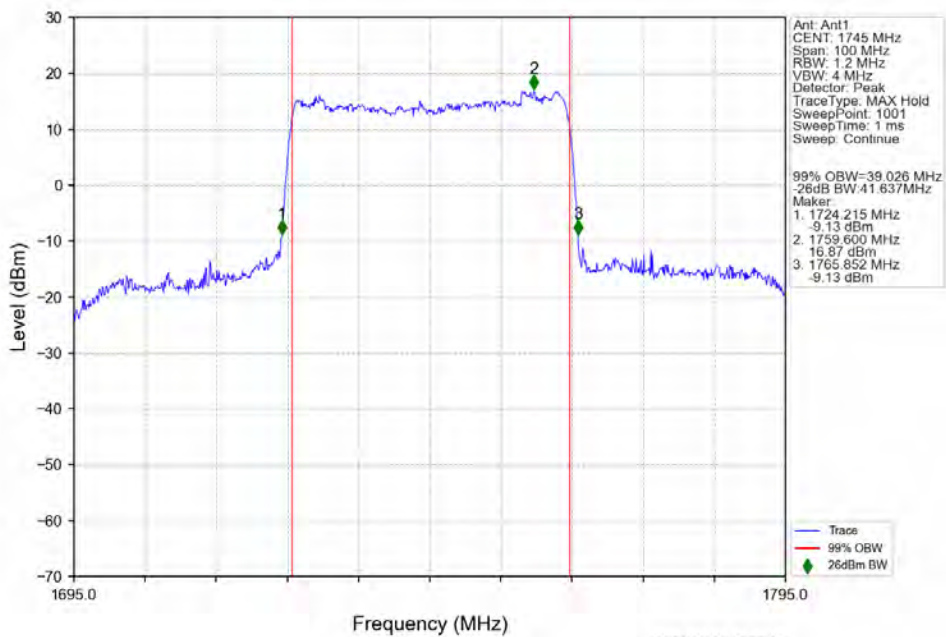
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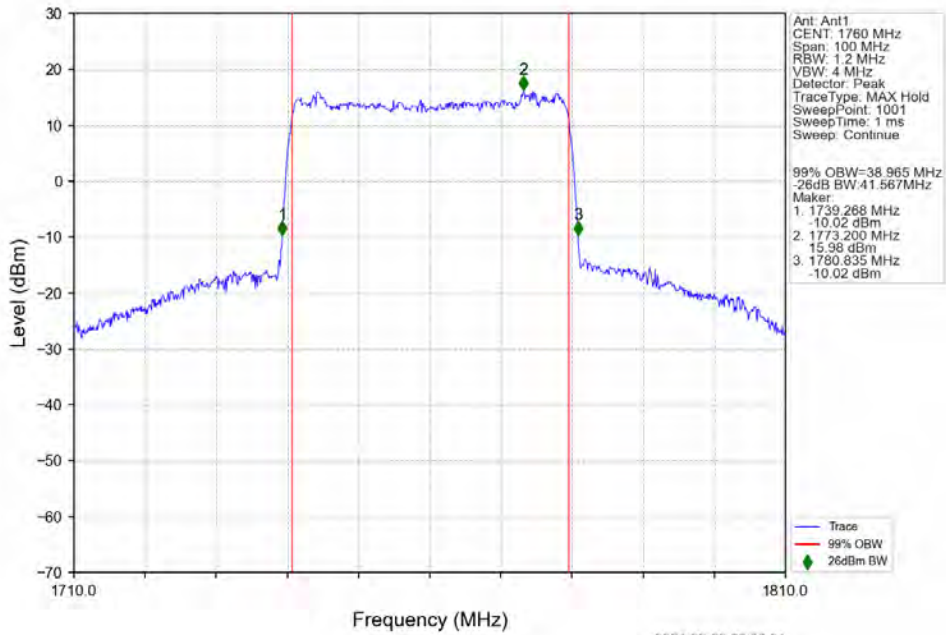
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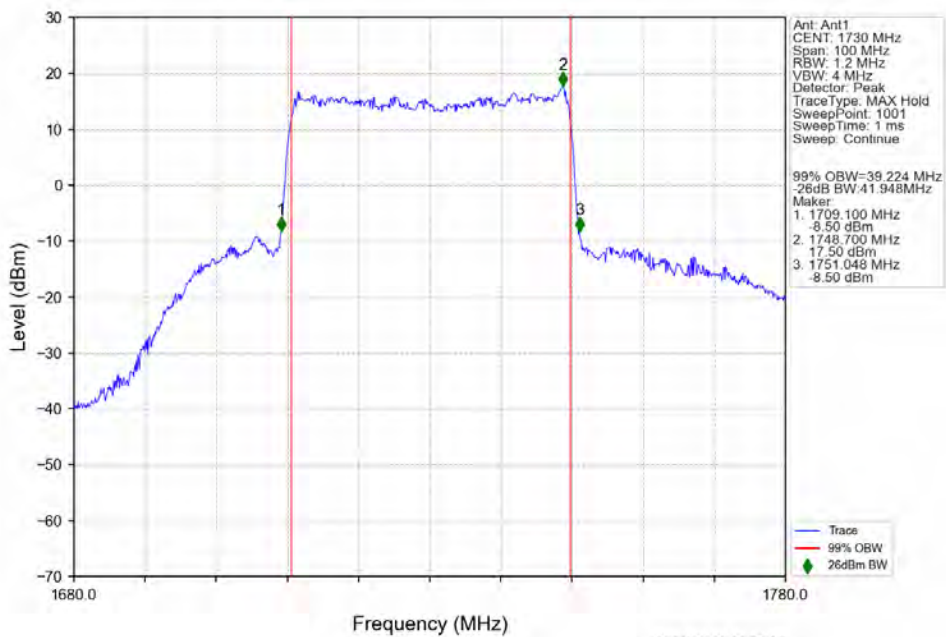
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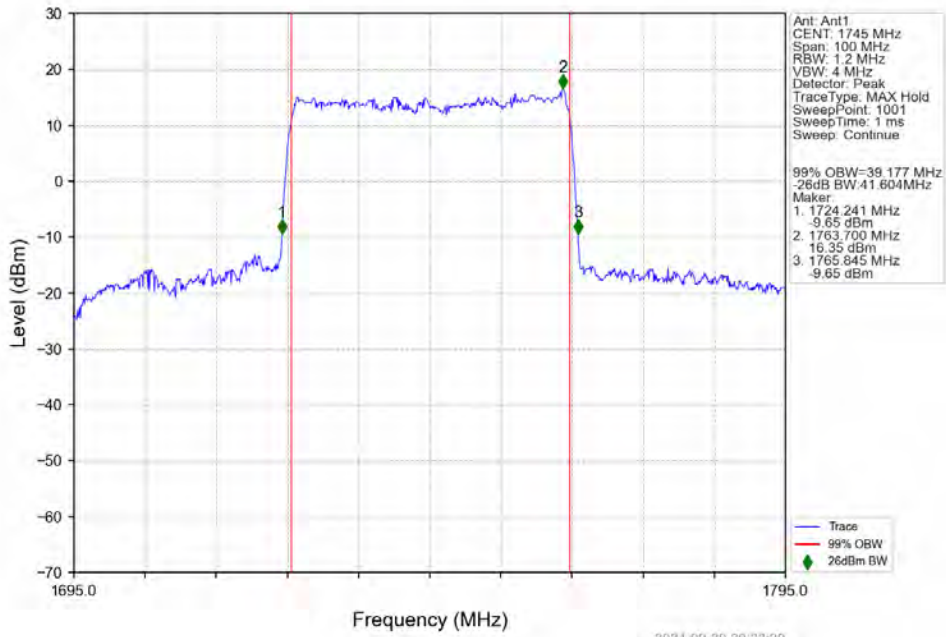
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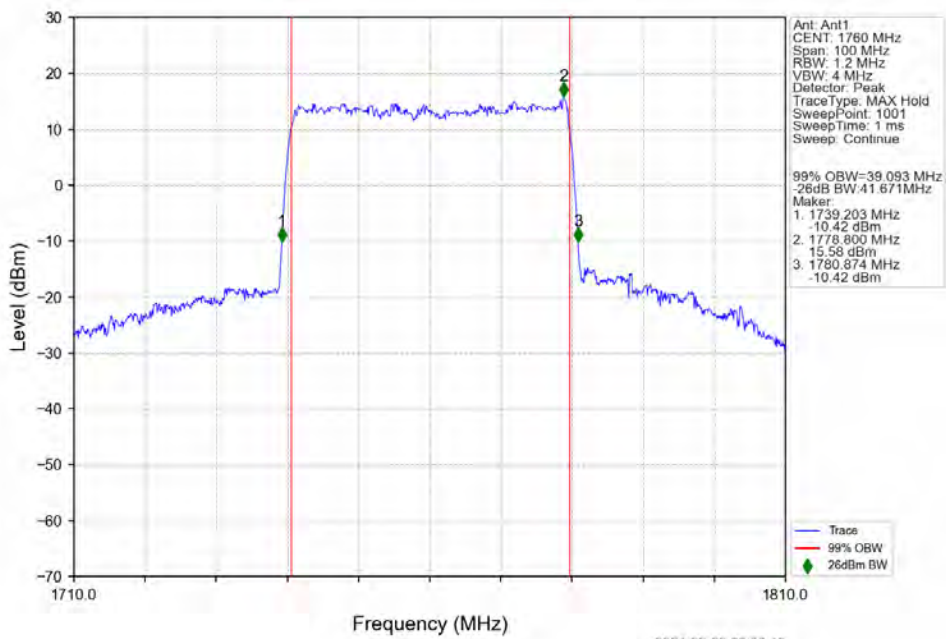
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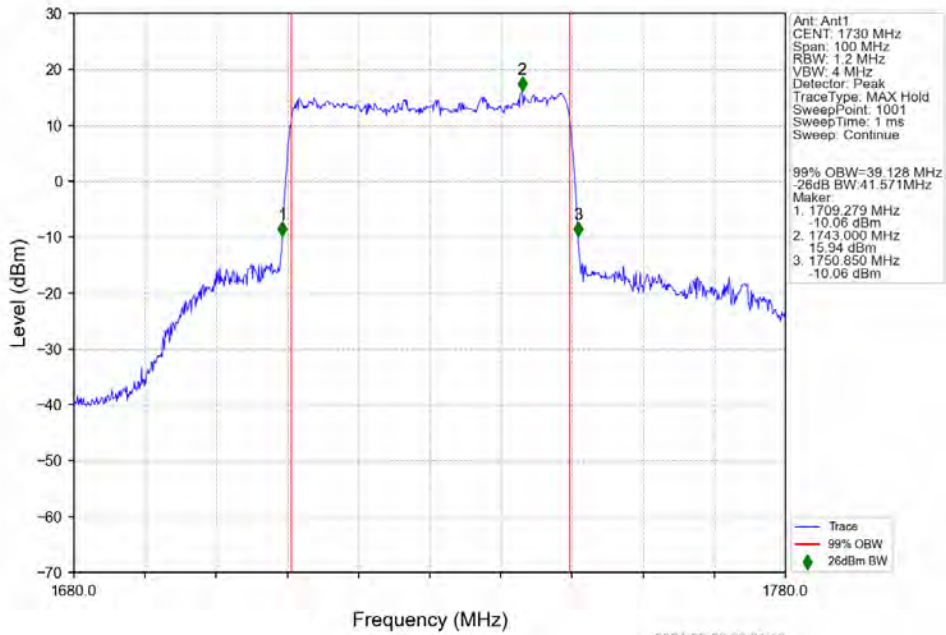
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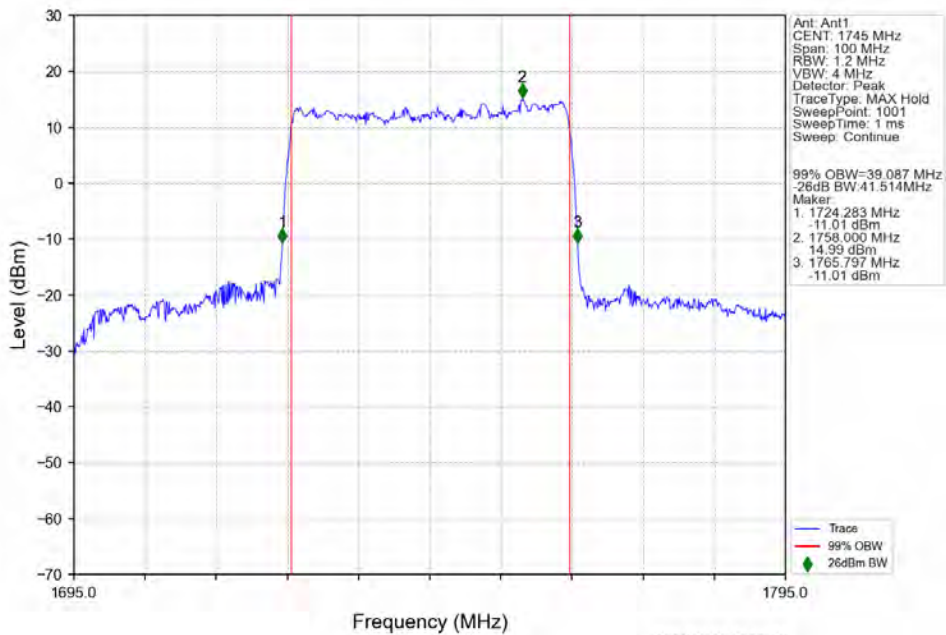
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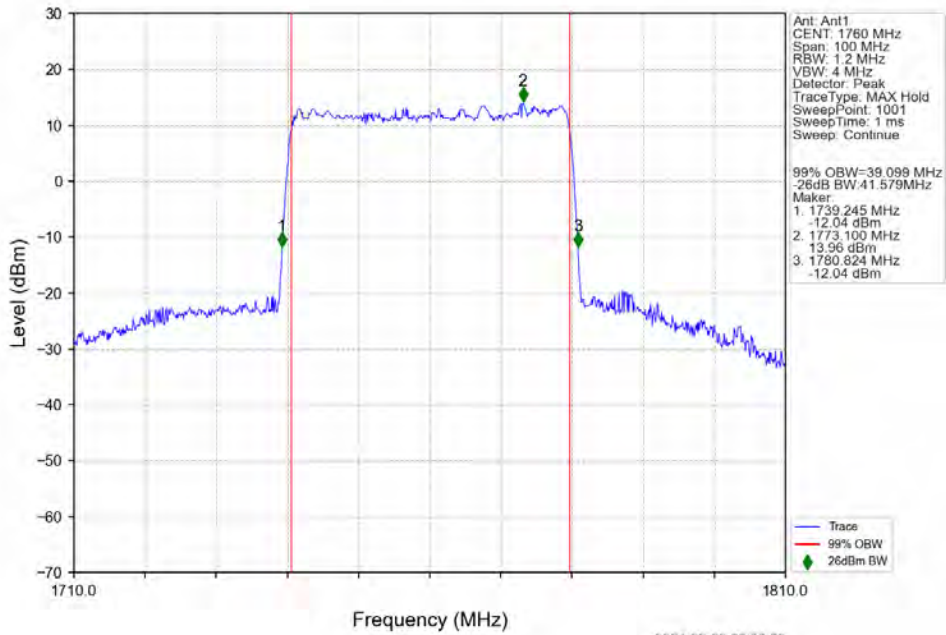
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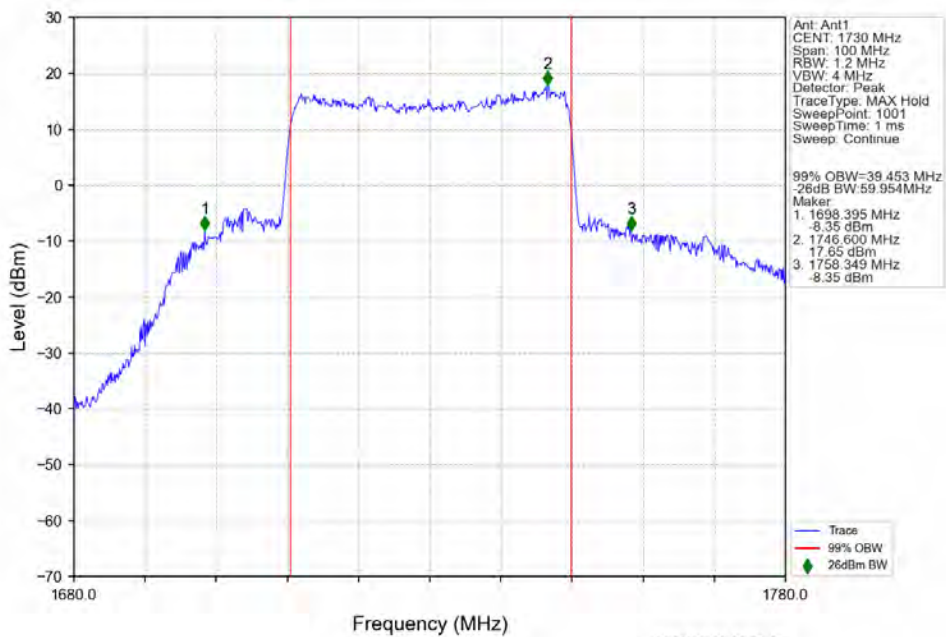
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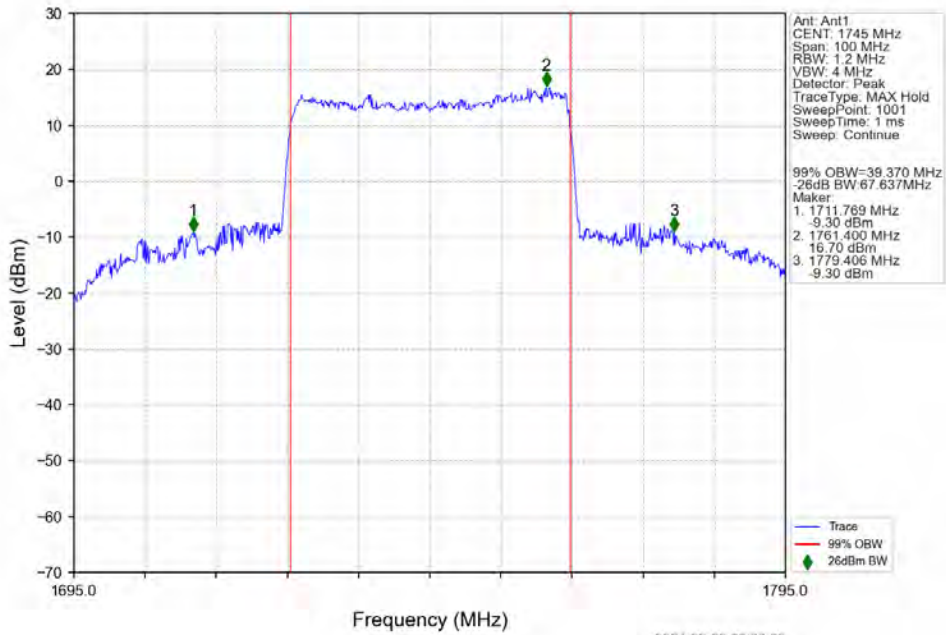
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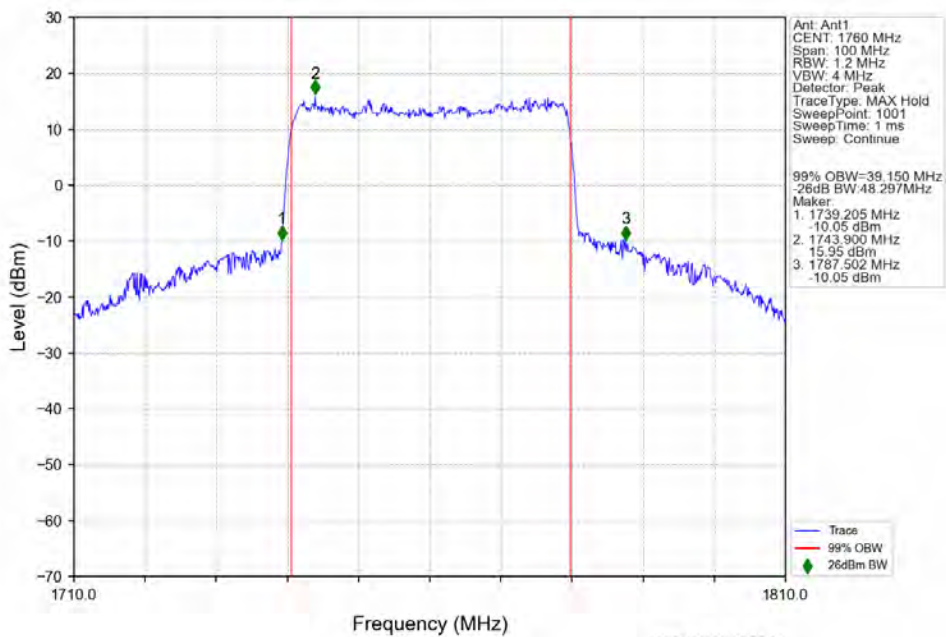
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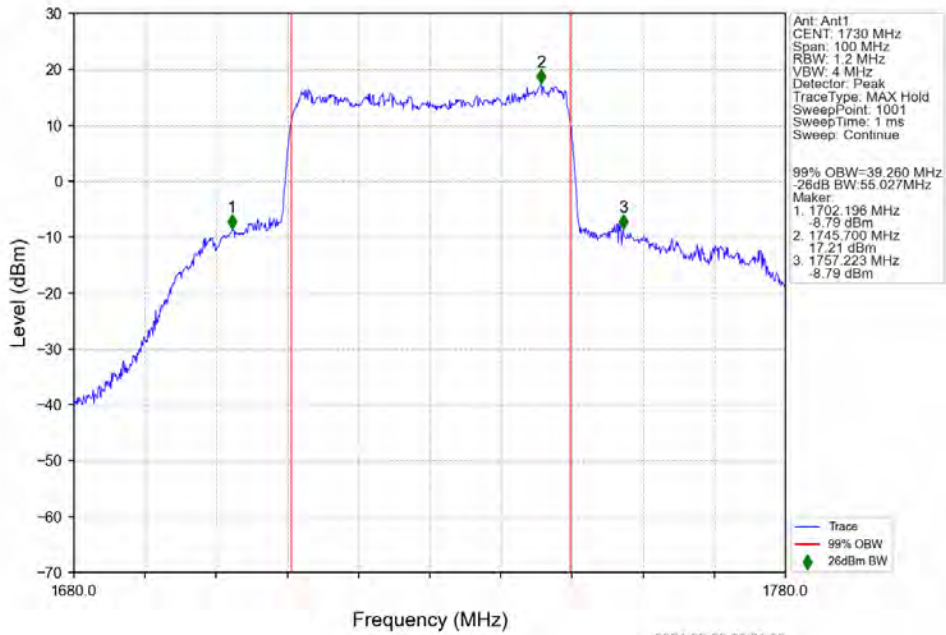
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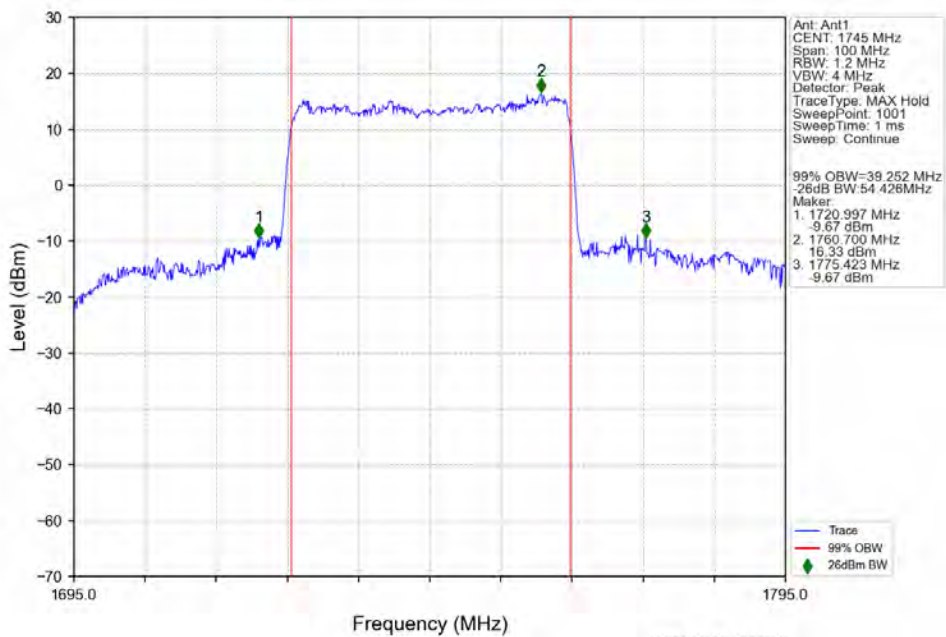
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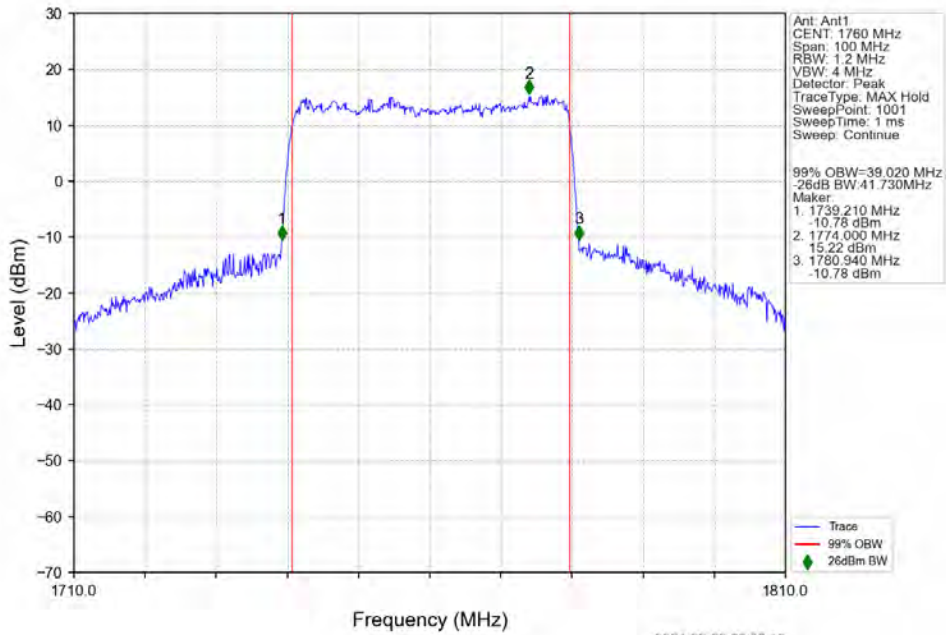
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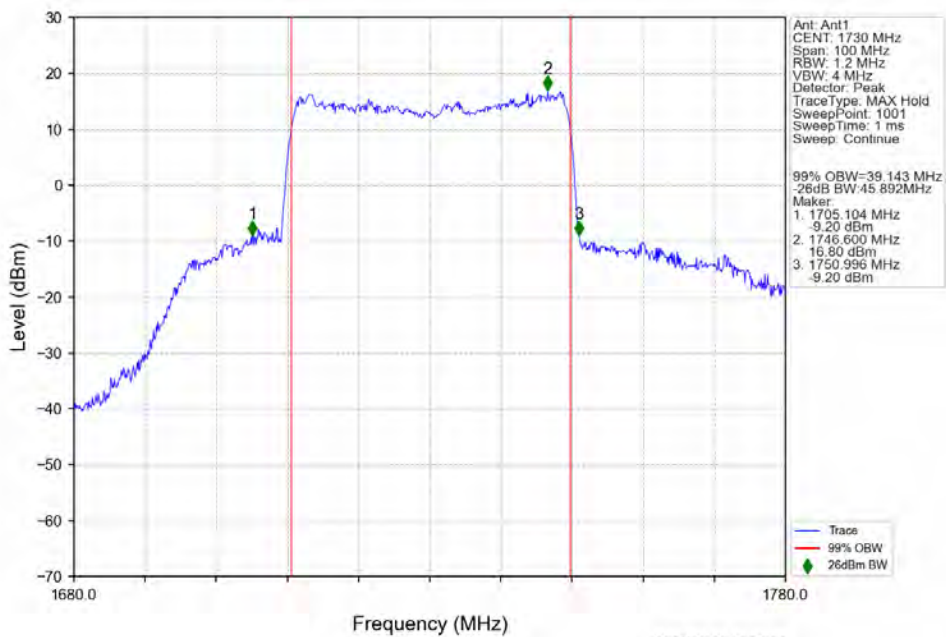
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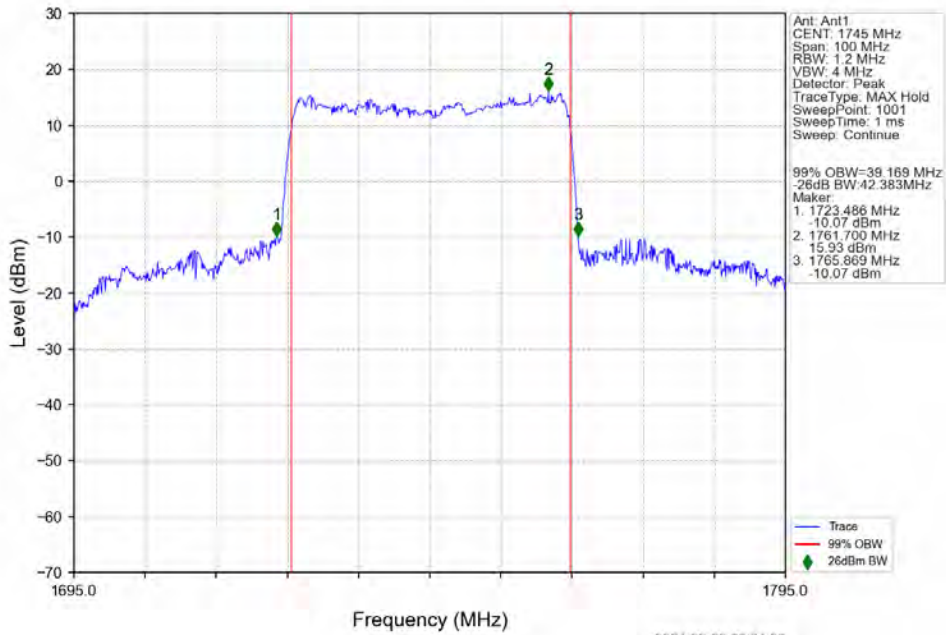
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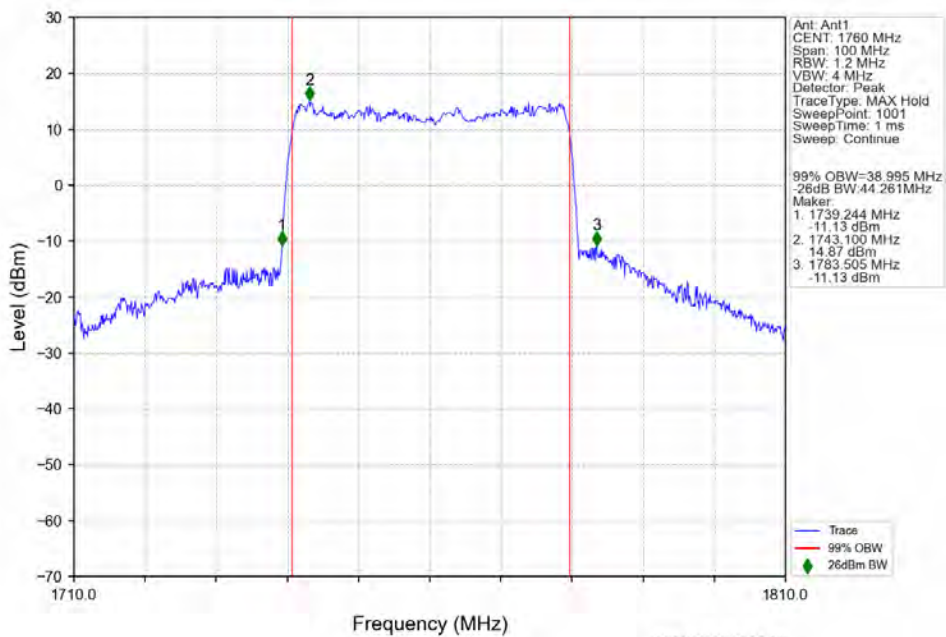
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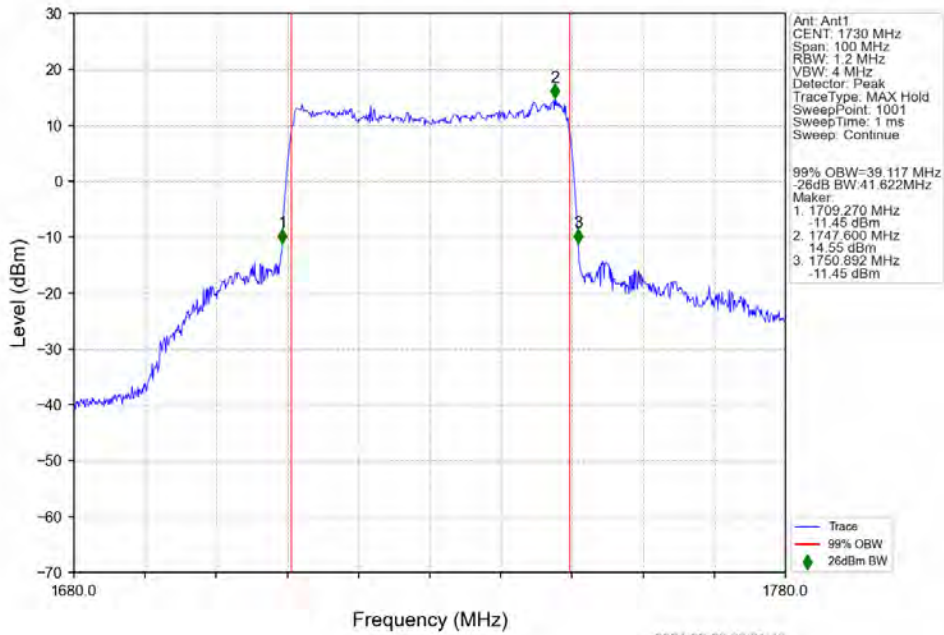
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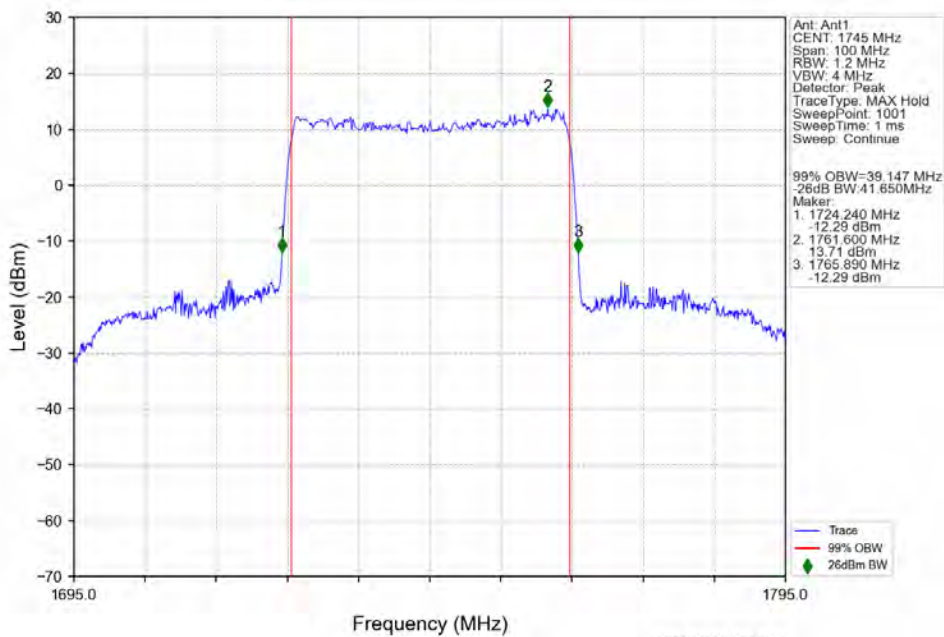
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n66 15kHz SISO NTV 40MHz CP-OFDM 256 QAM 1730MHz Outer Full



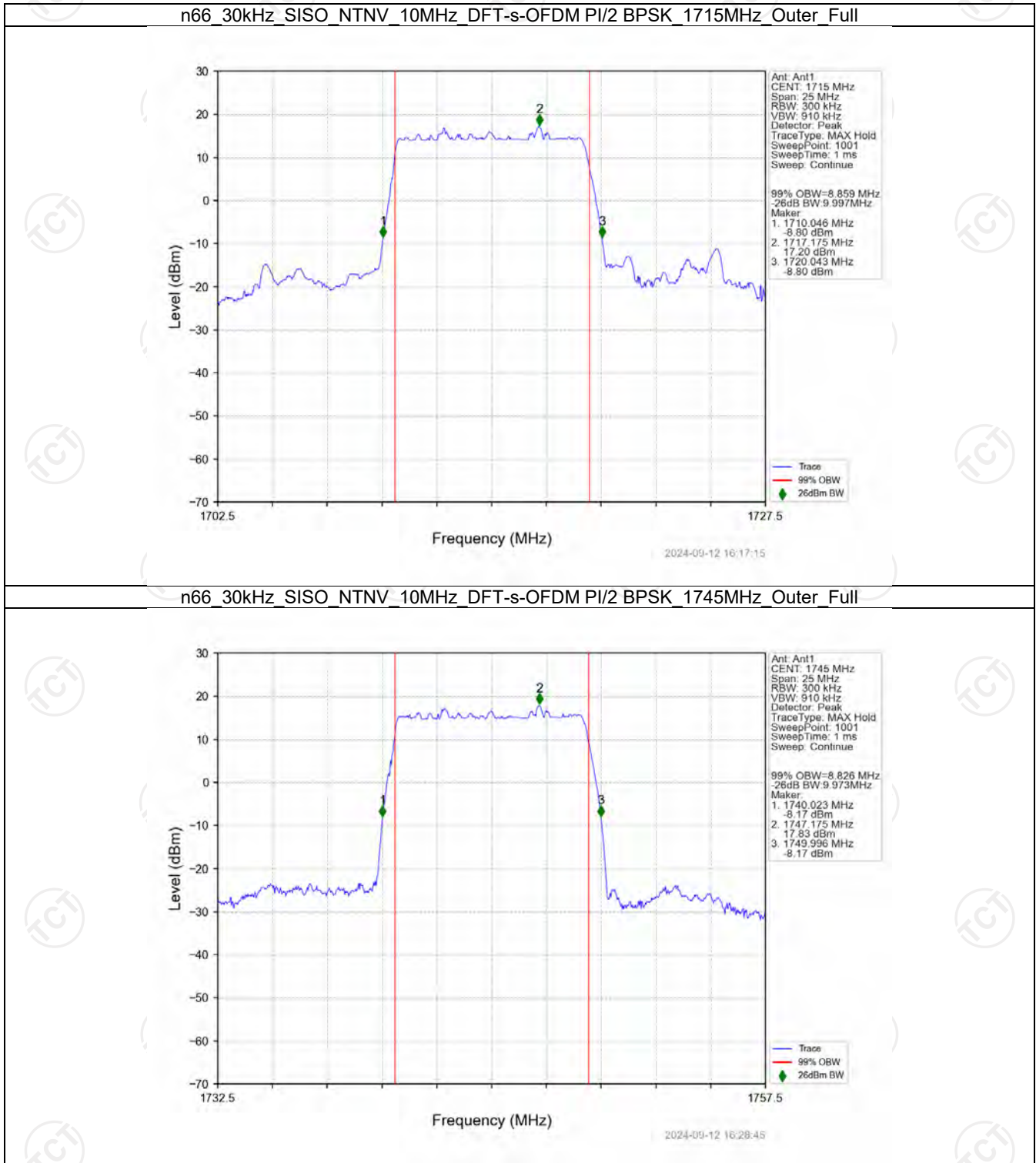
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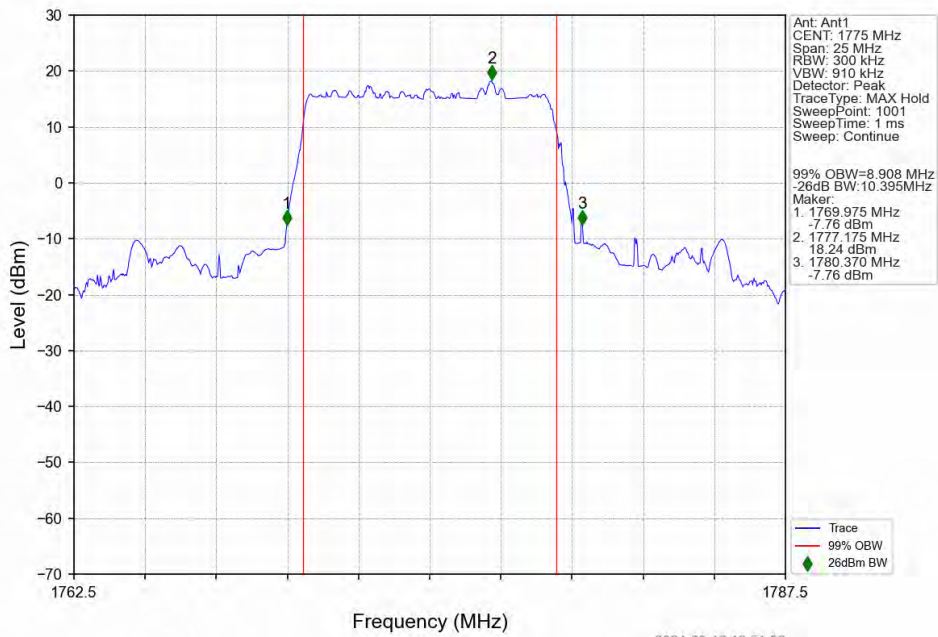
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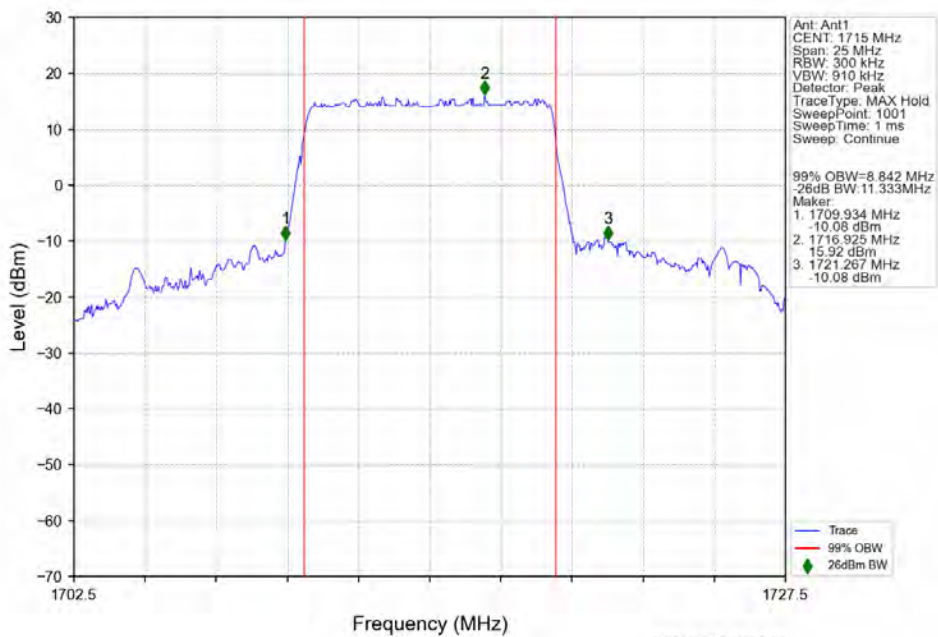
4.2.6 30k_SISO_10MHz_NTNV



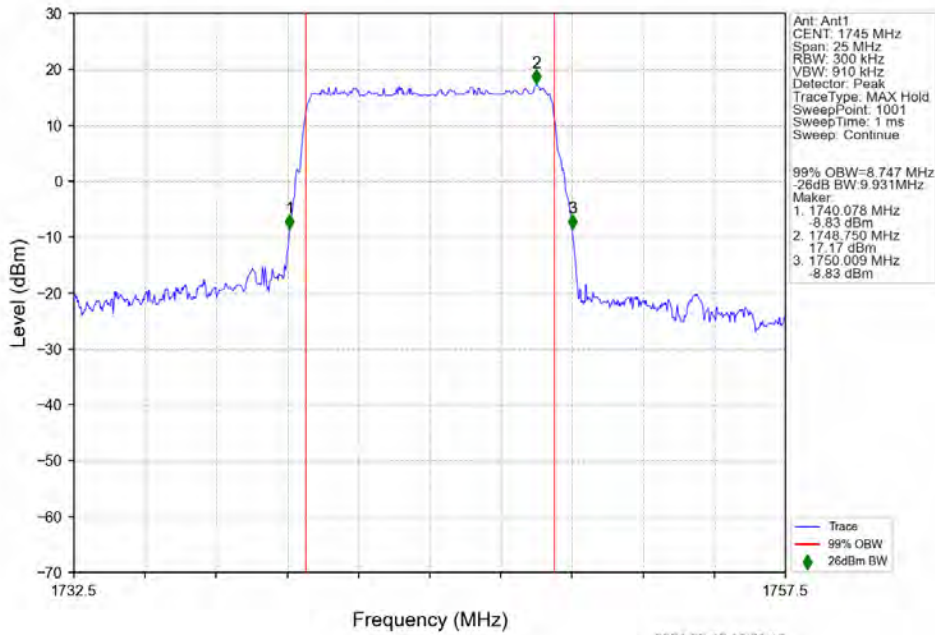
n66 30kHz SISO NTN 10MHz DFT-s-OFDM PI/2 BPSK 1775MHz Outer Full



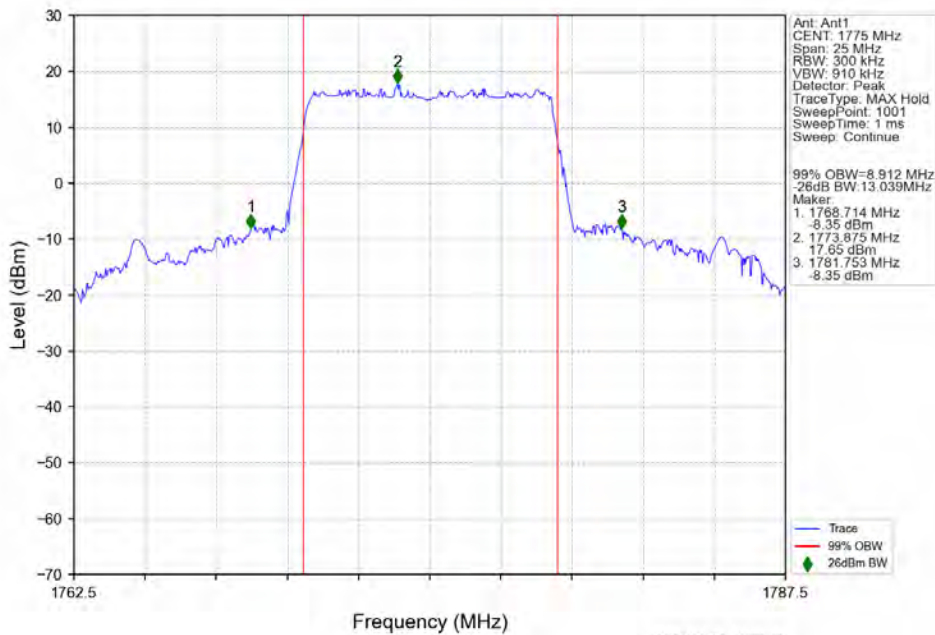
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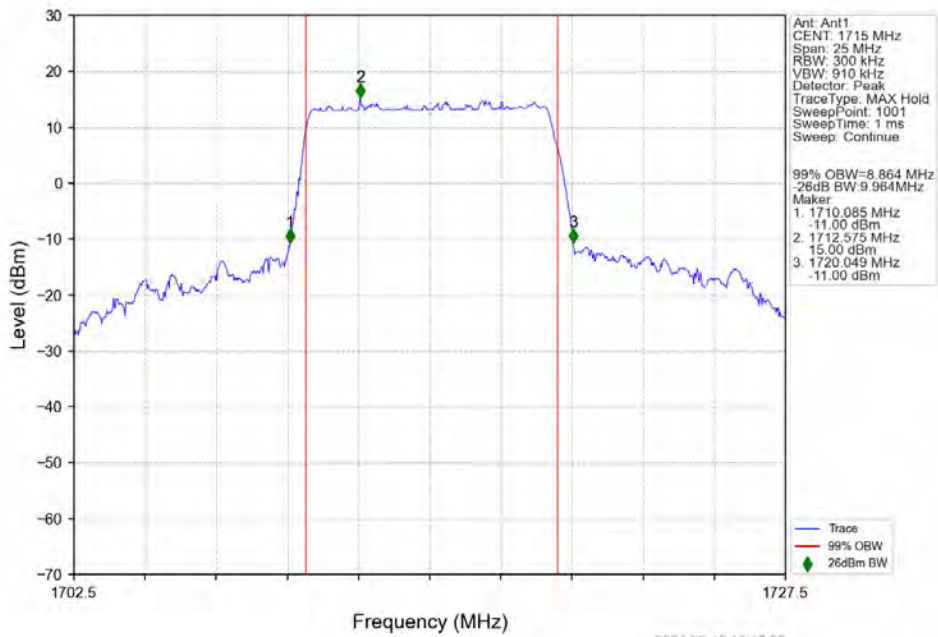
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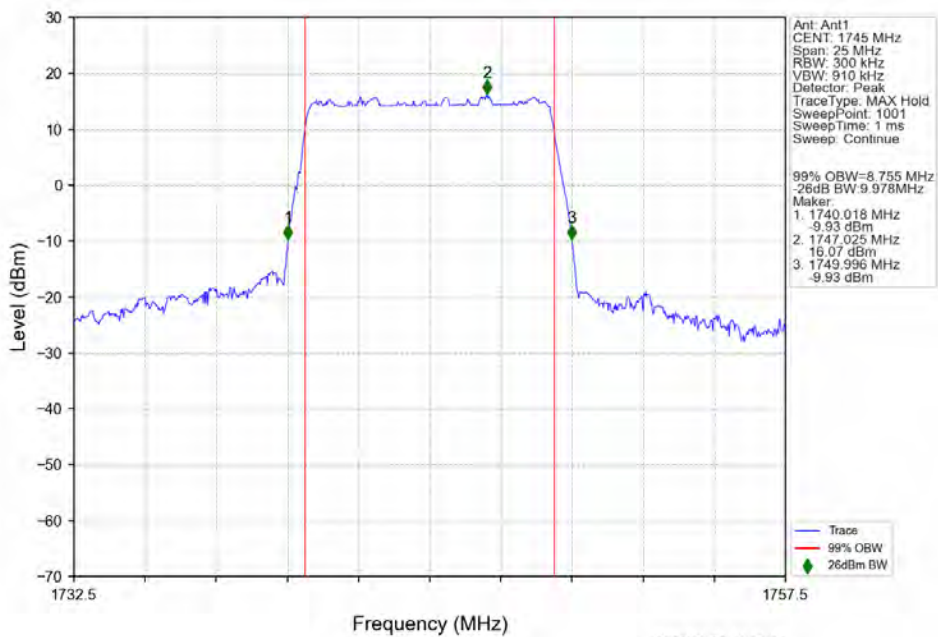
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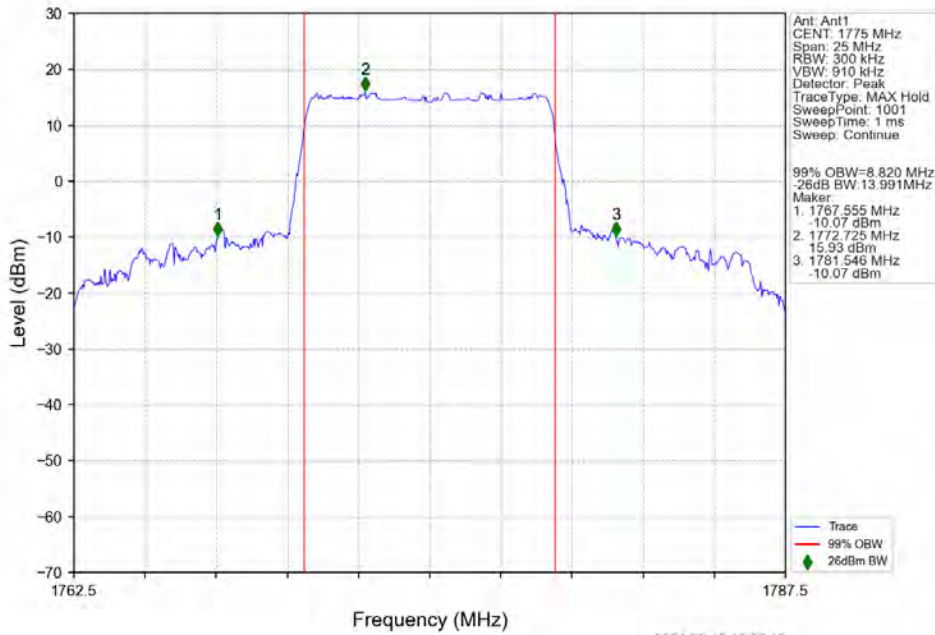
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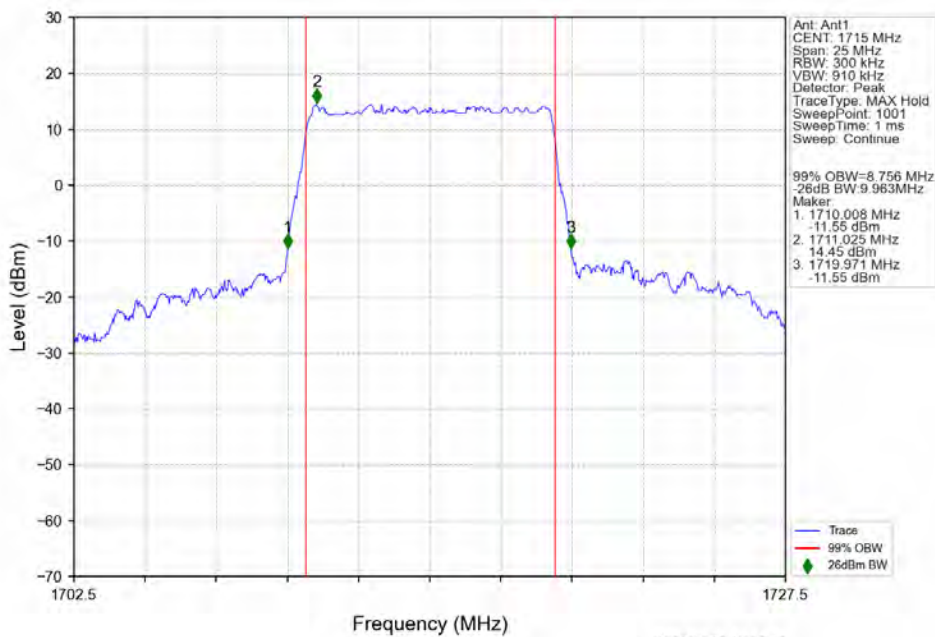
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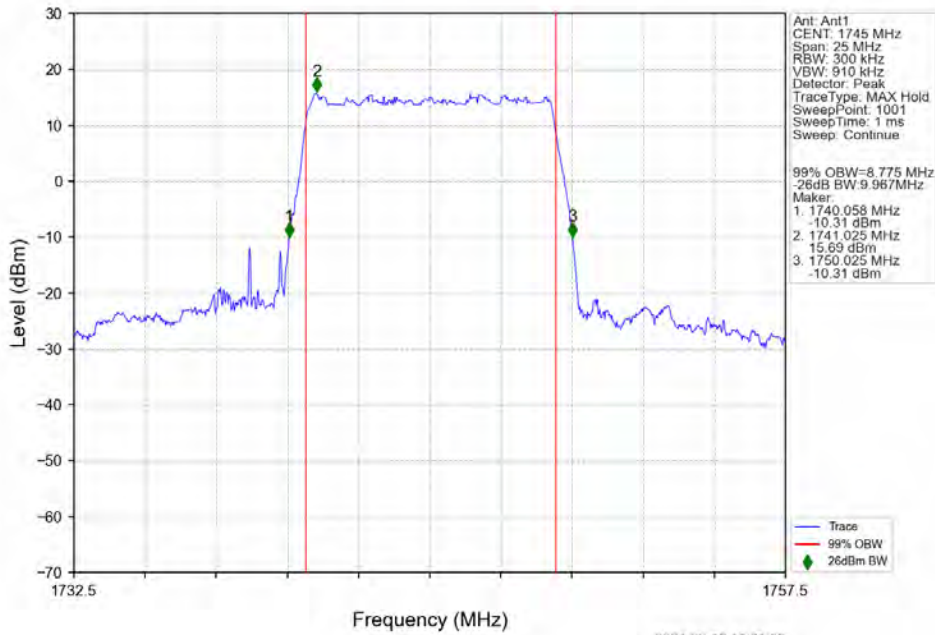
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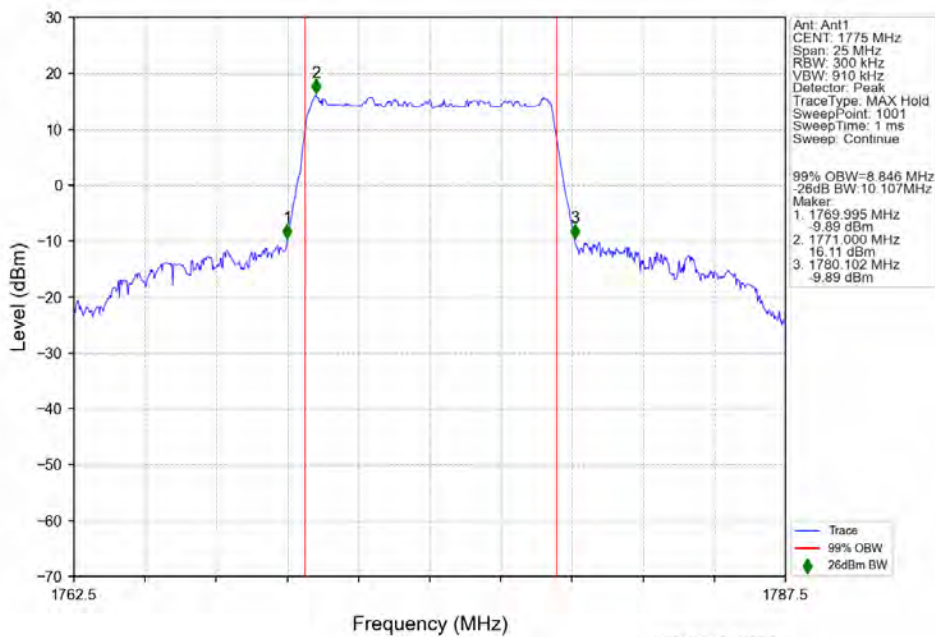
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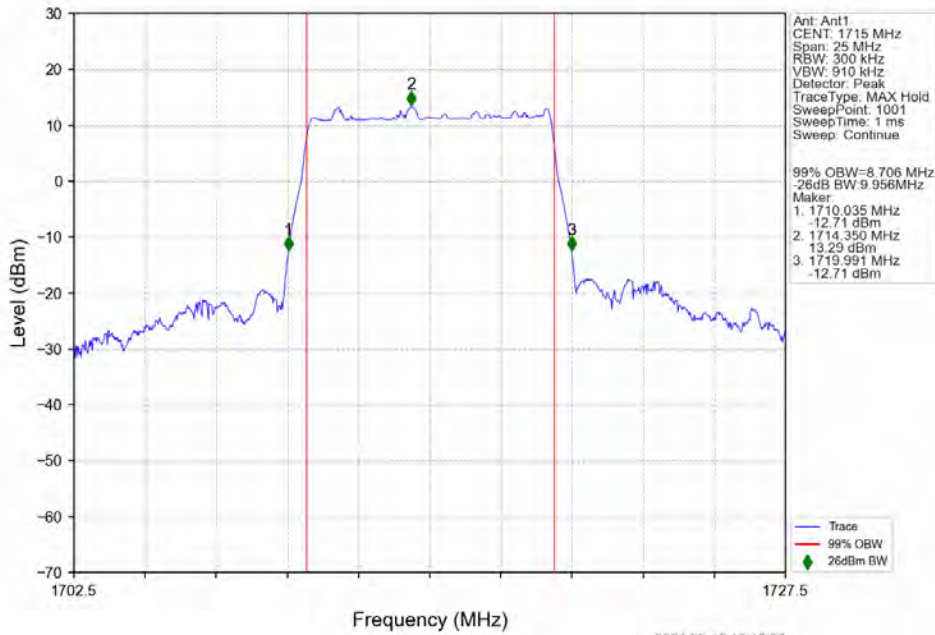
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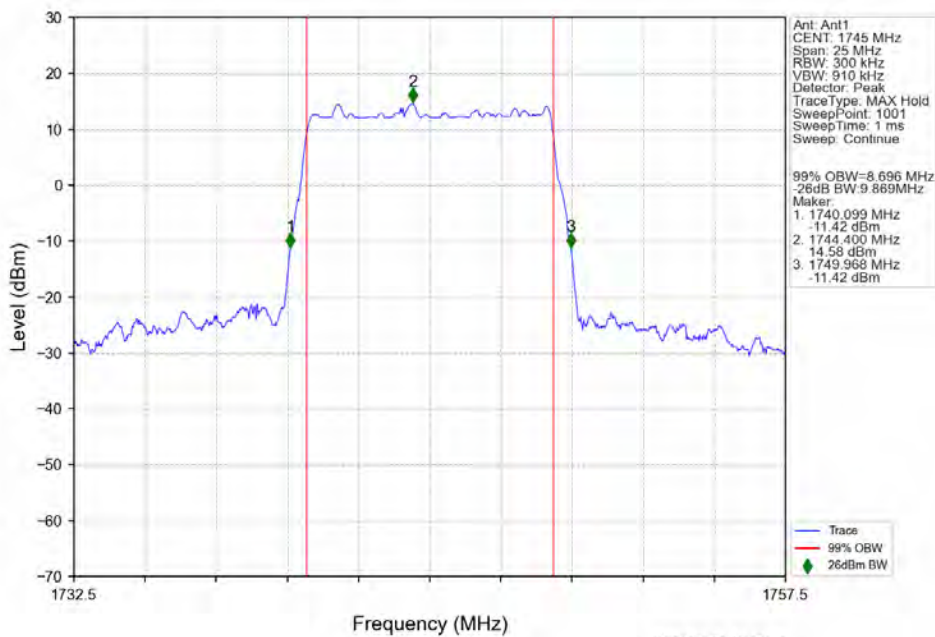
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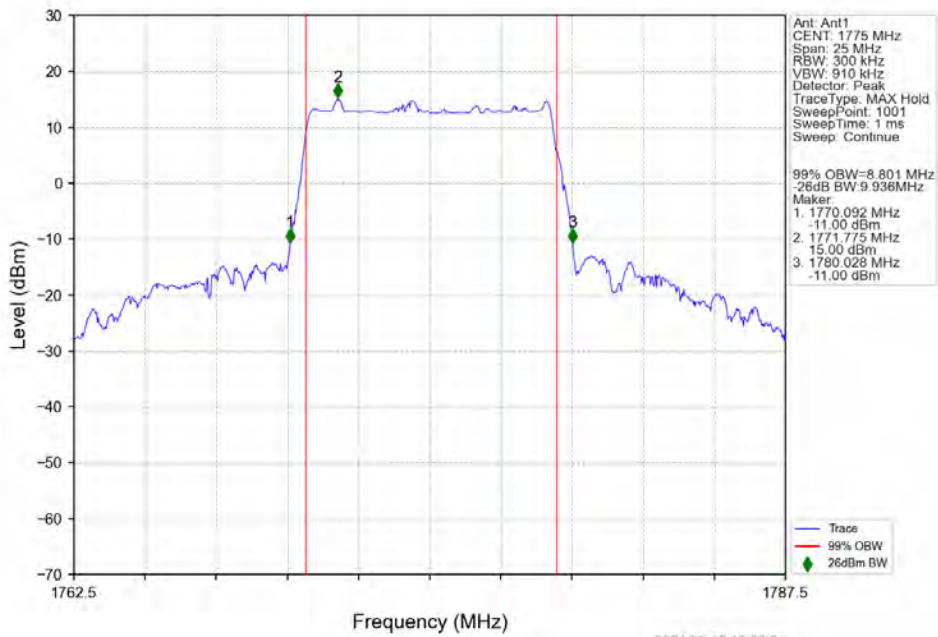
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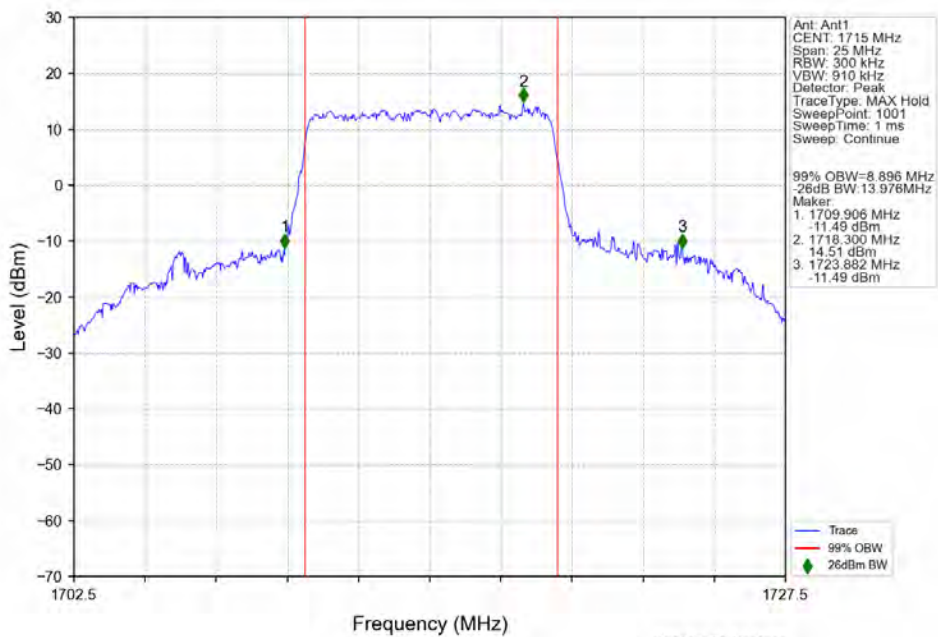
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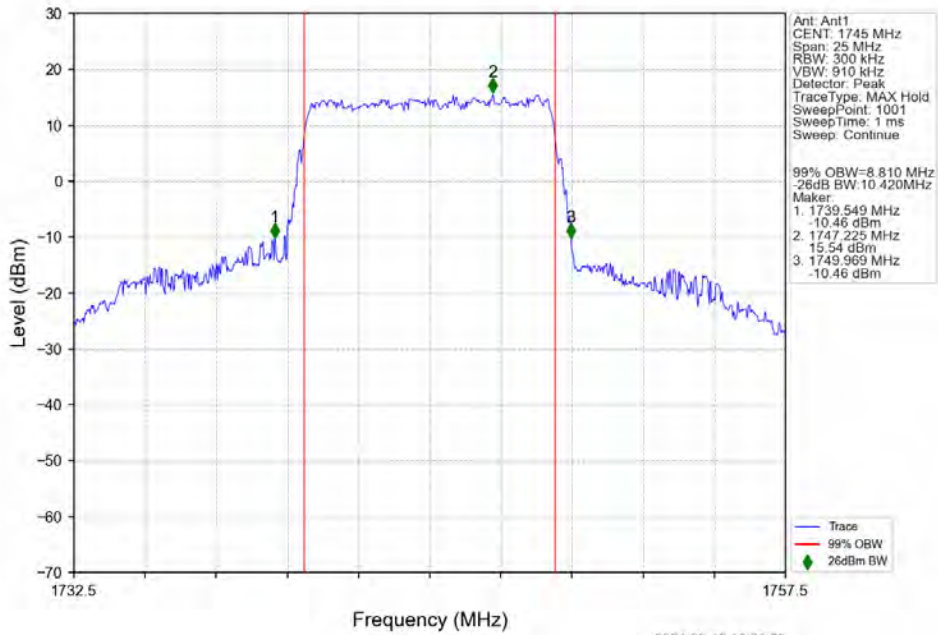
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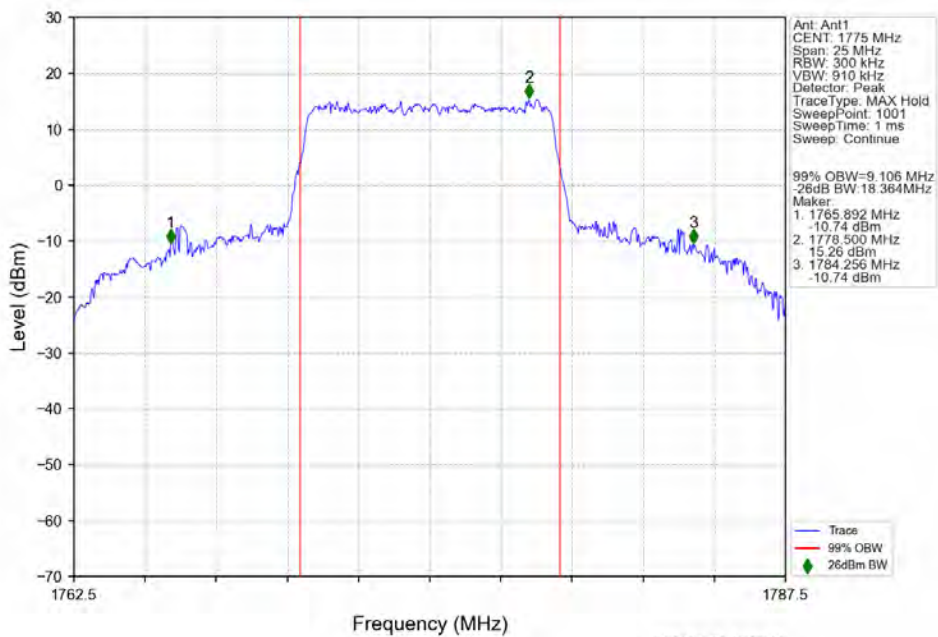
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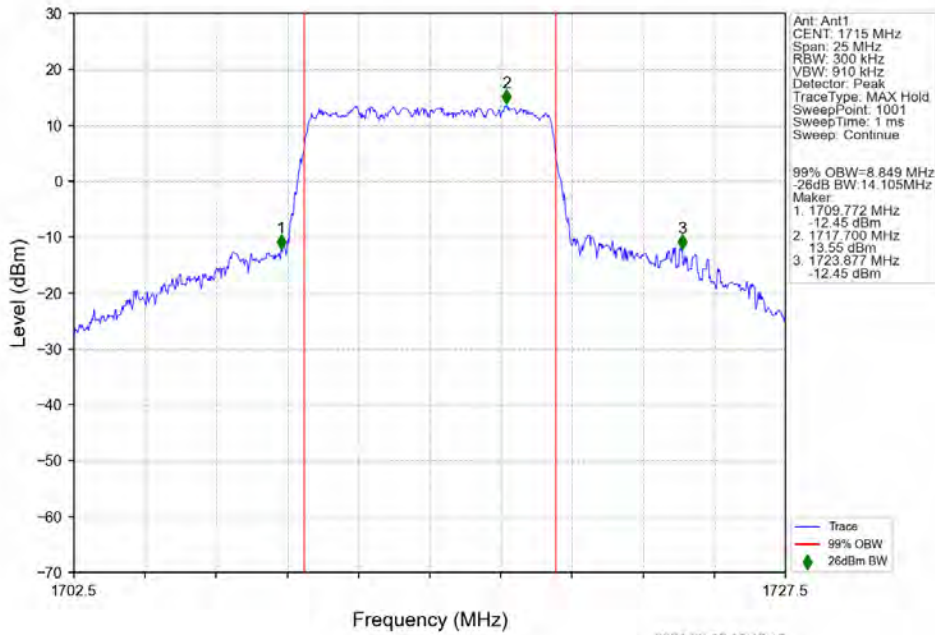
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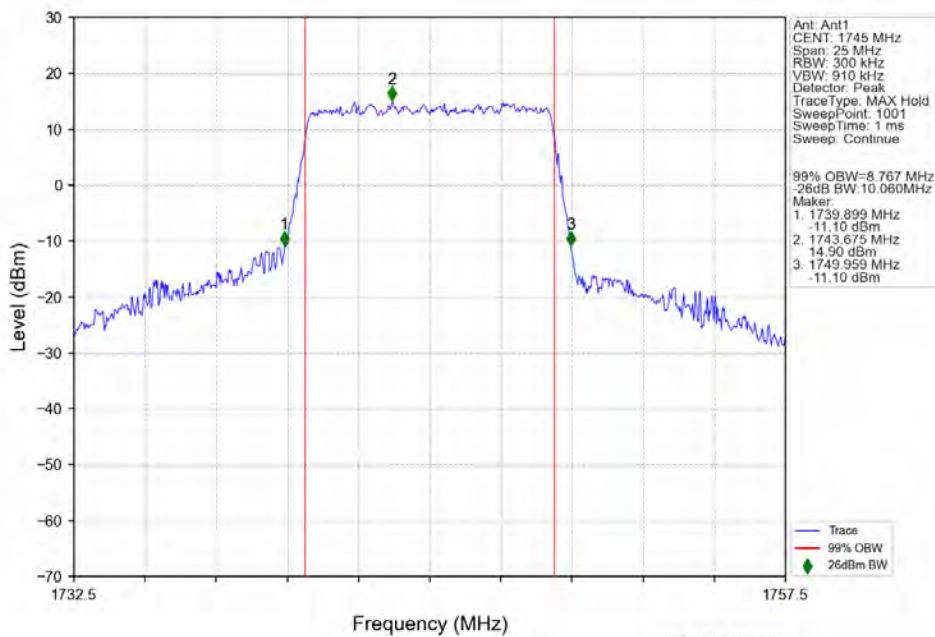
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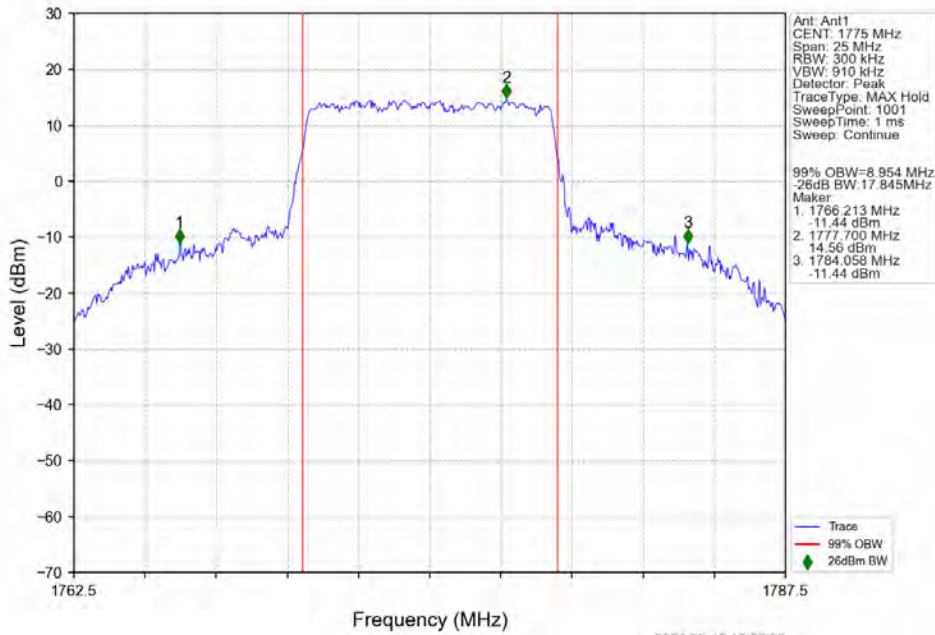
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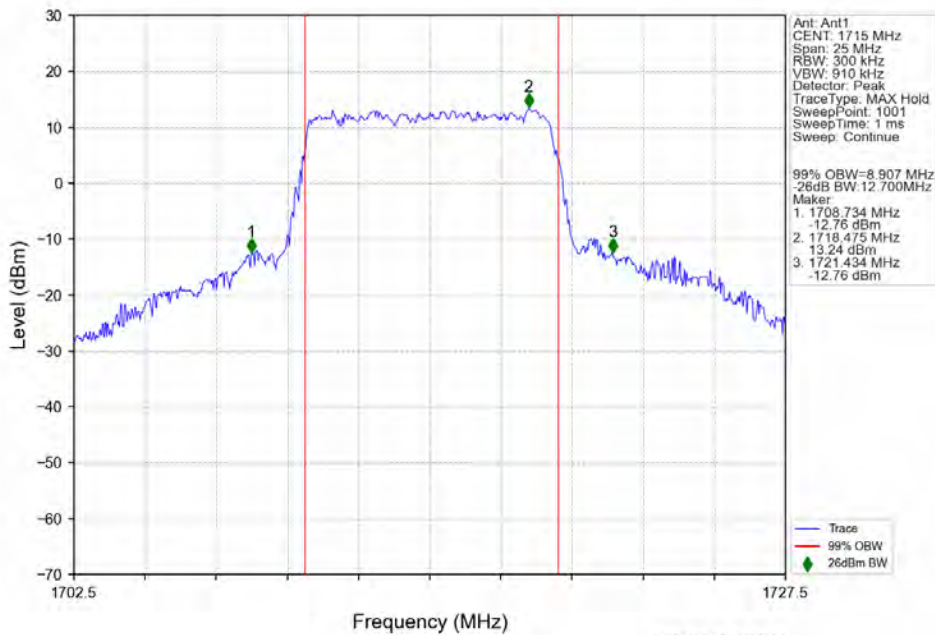
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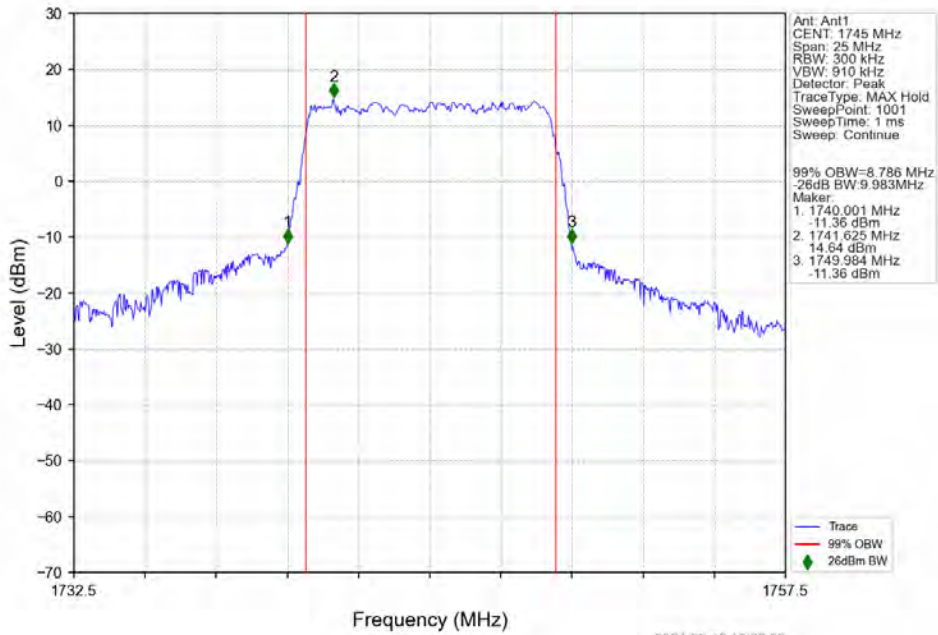
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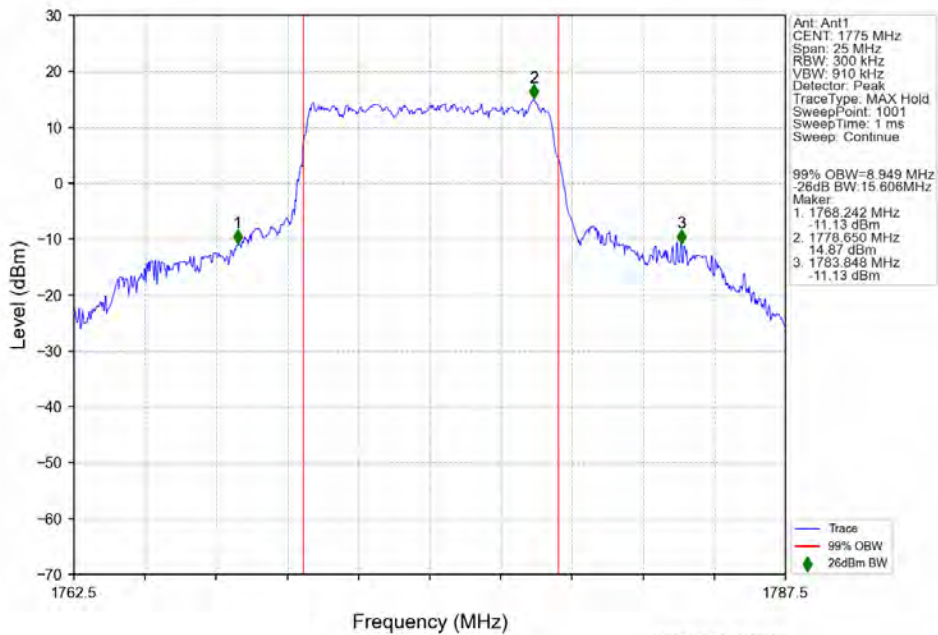
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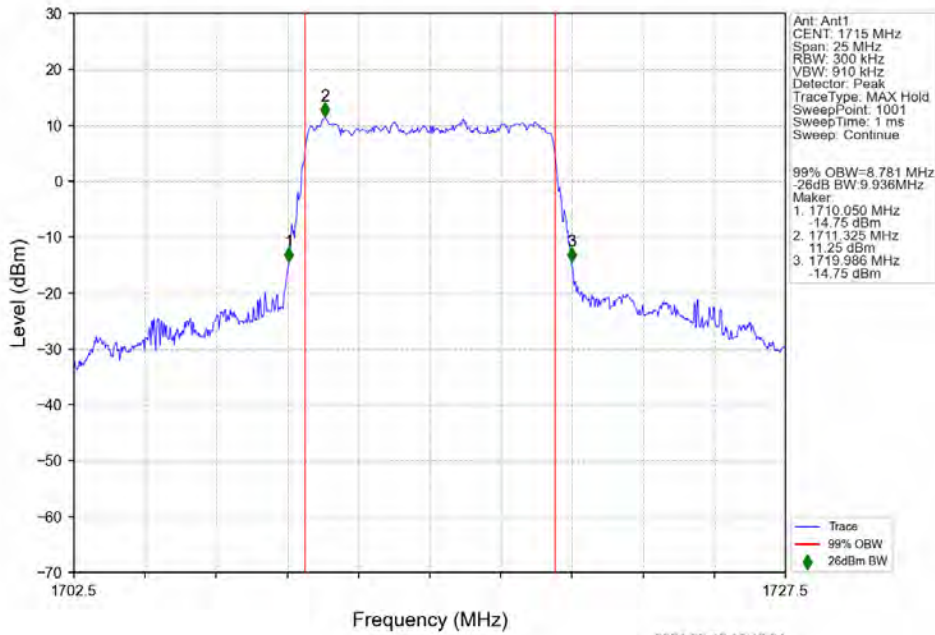
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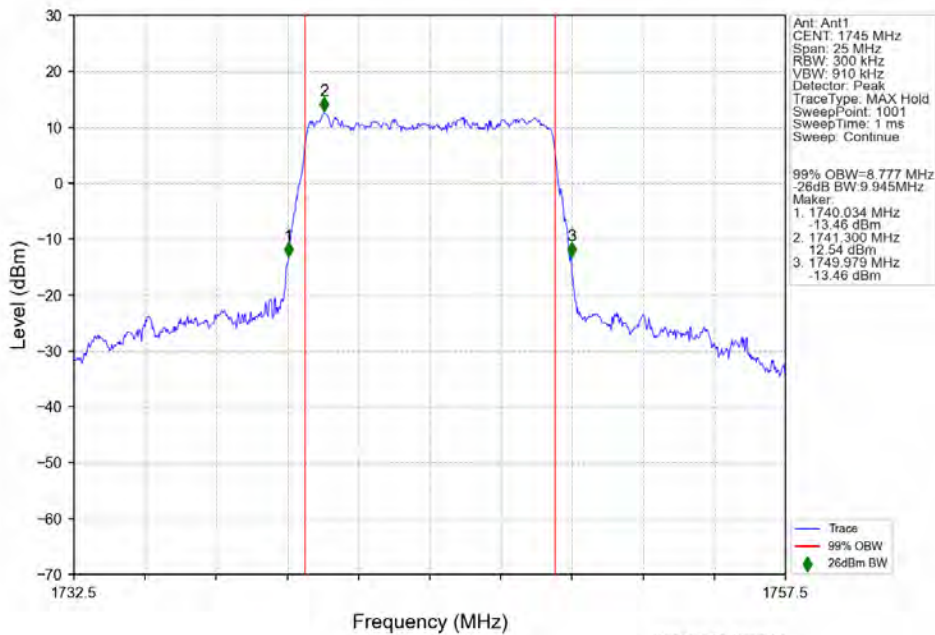
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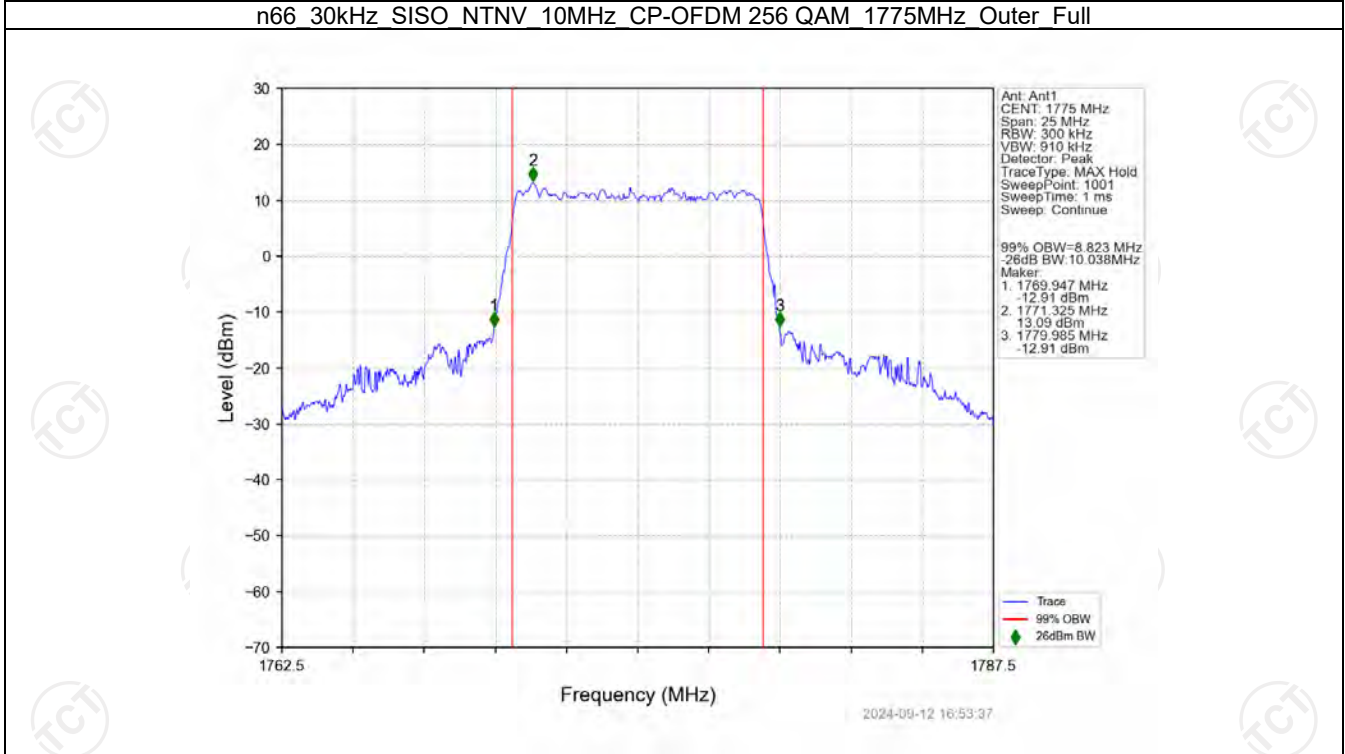
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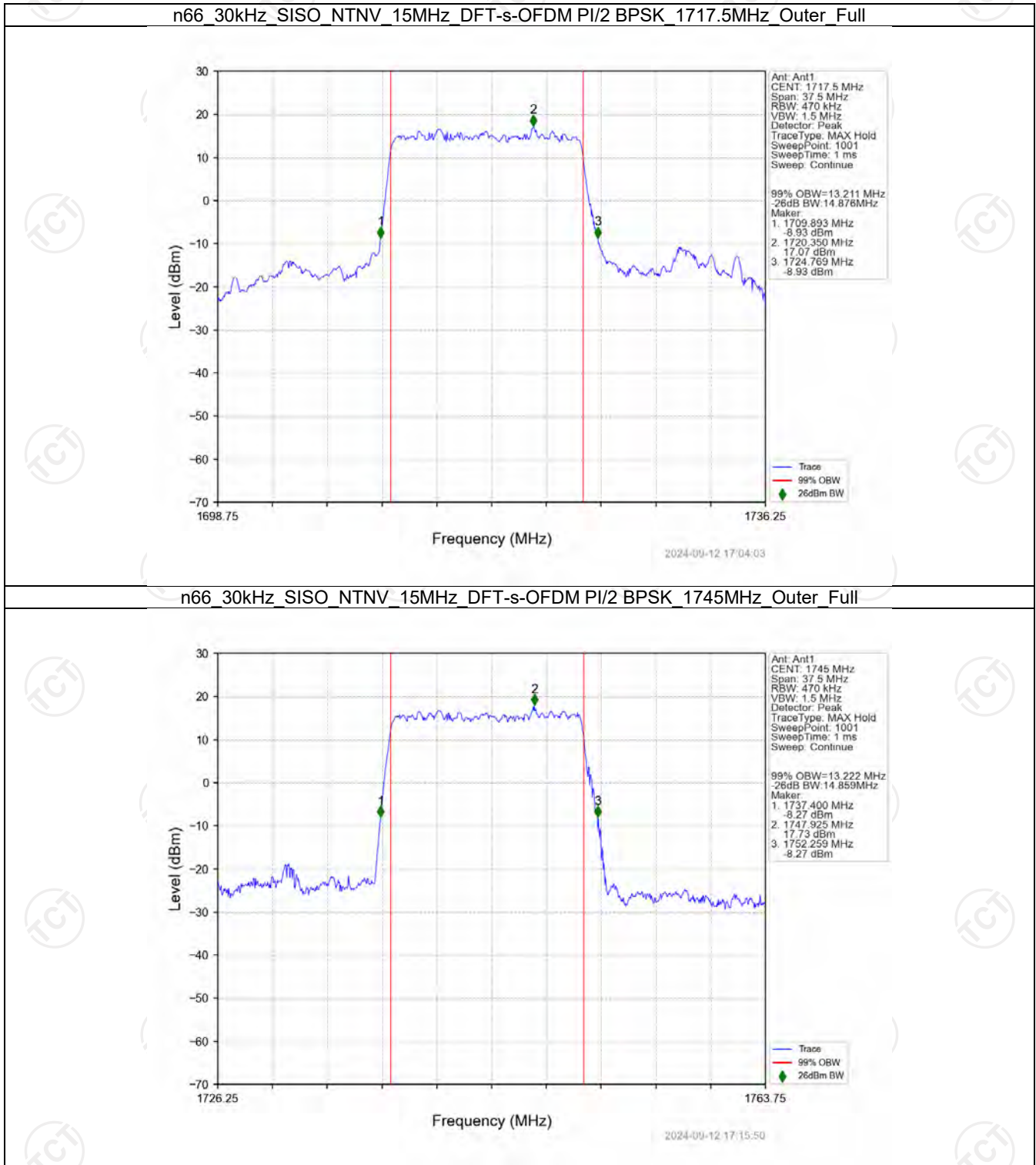
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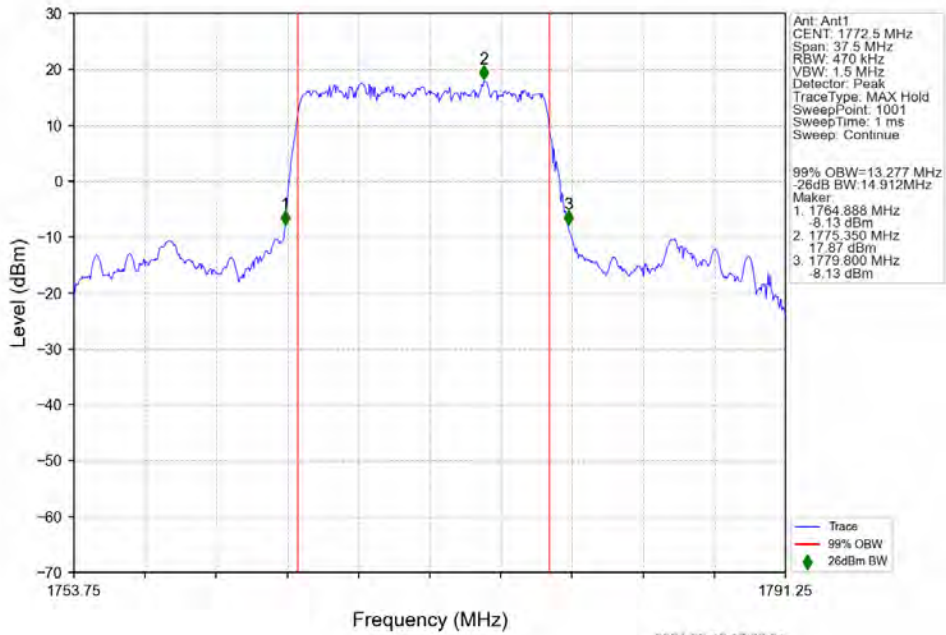
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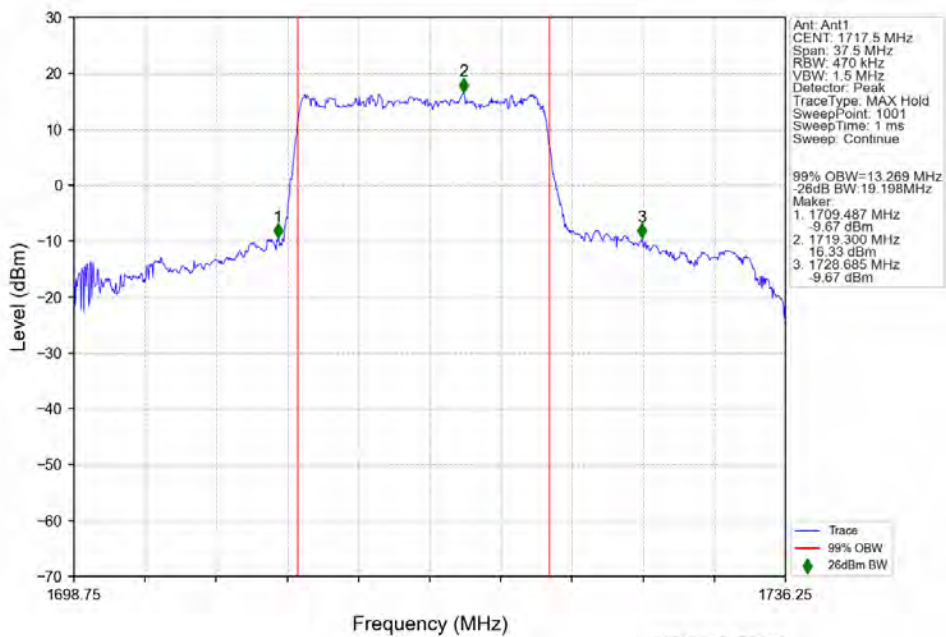
4.2.7 30k_SISO_15MHz_NTNV



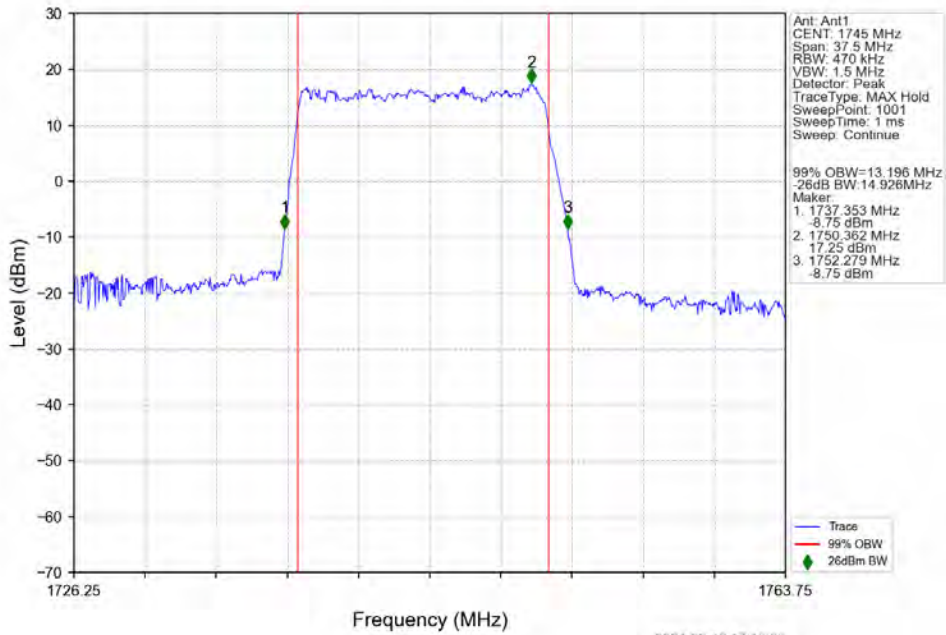
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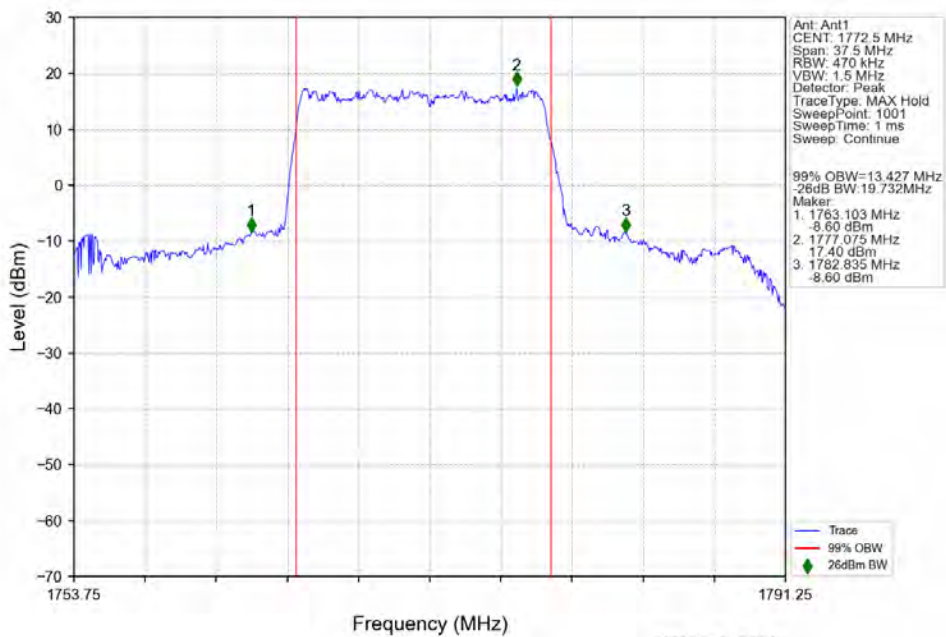
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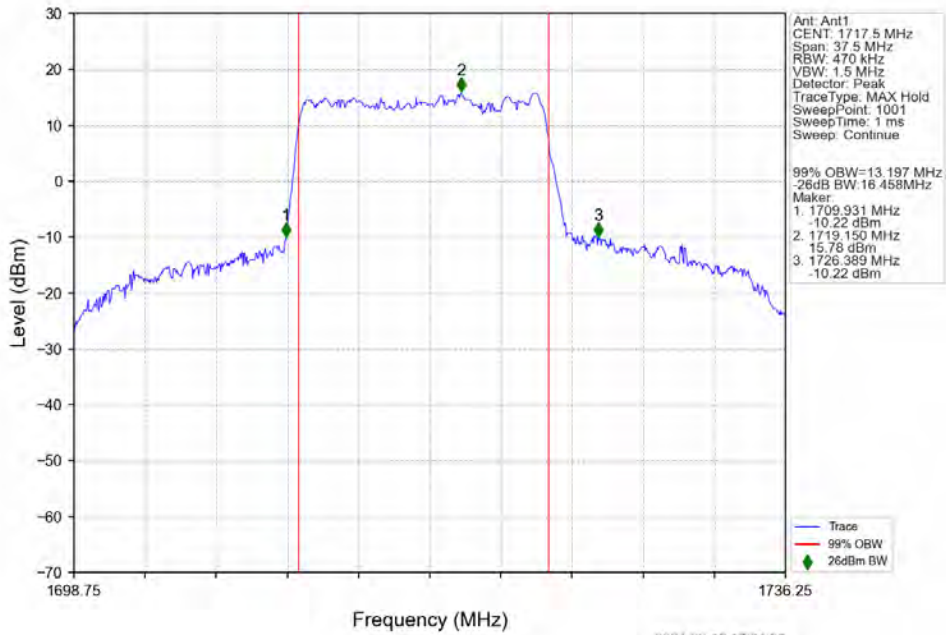
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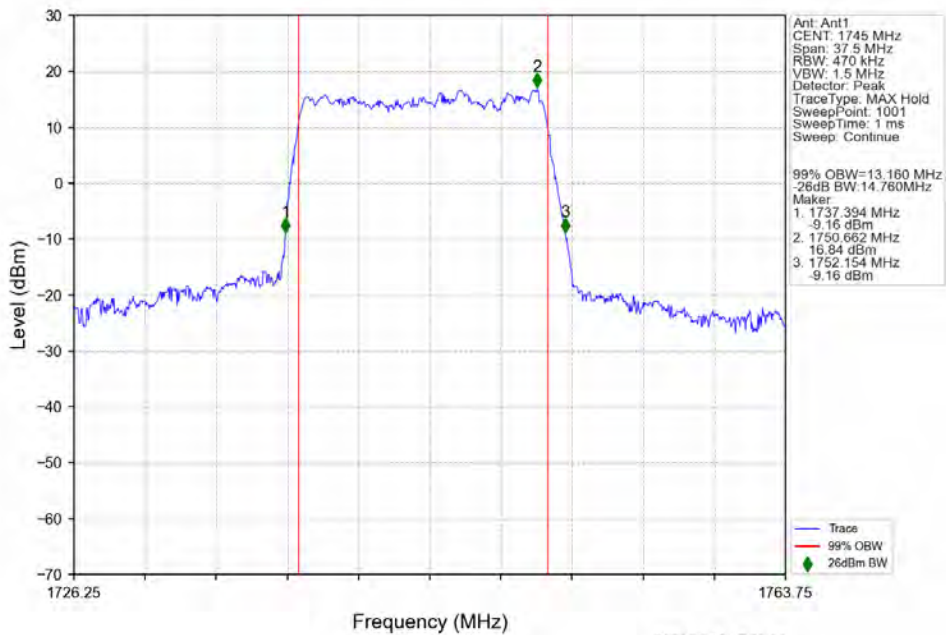
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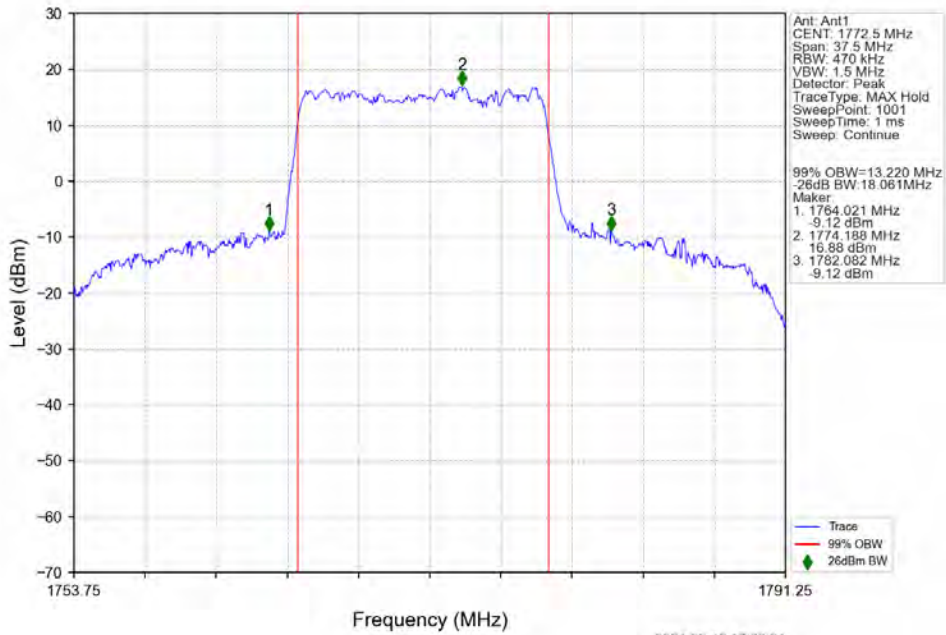
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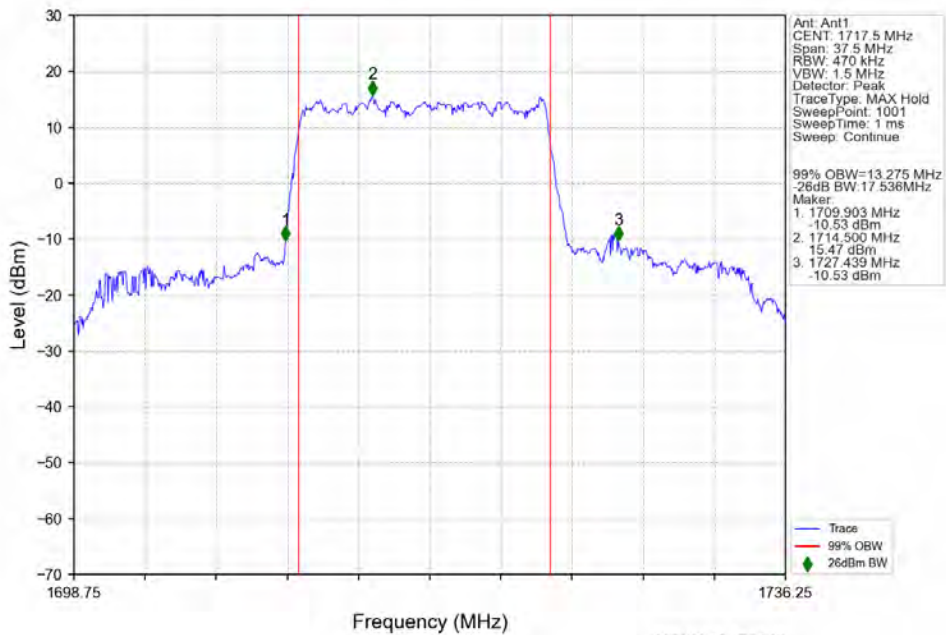
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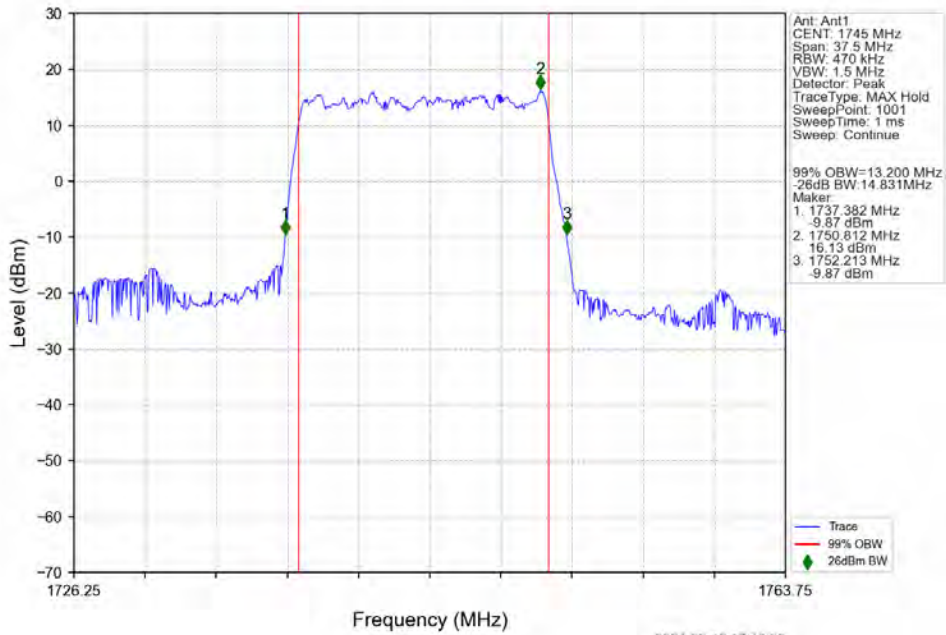
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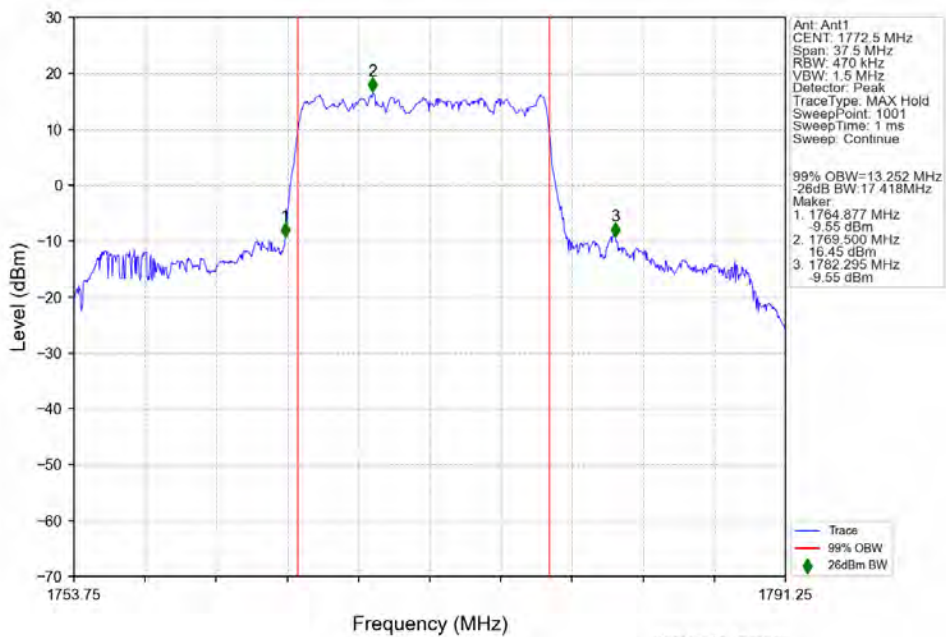
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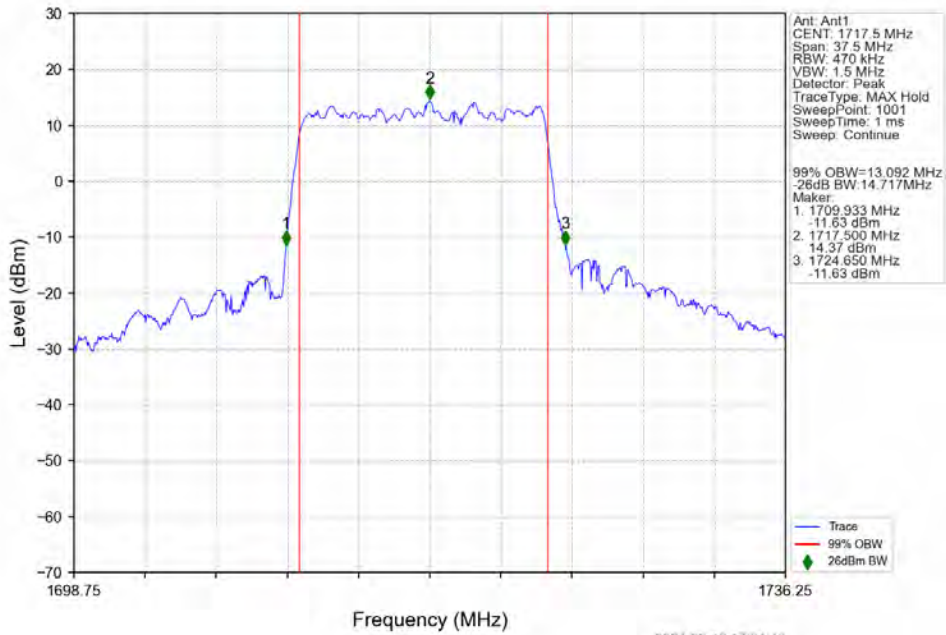
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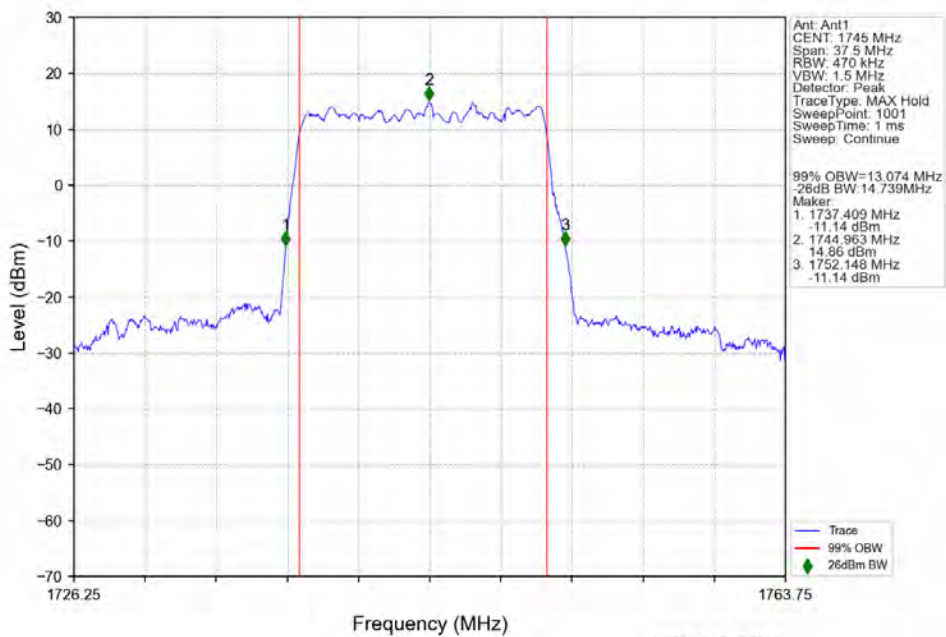
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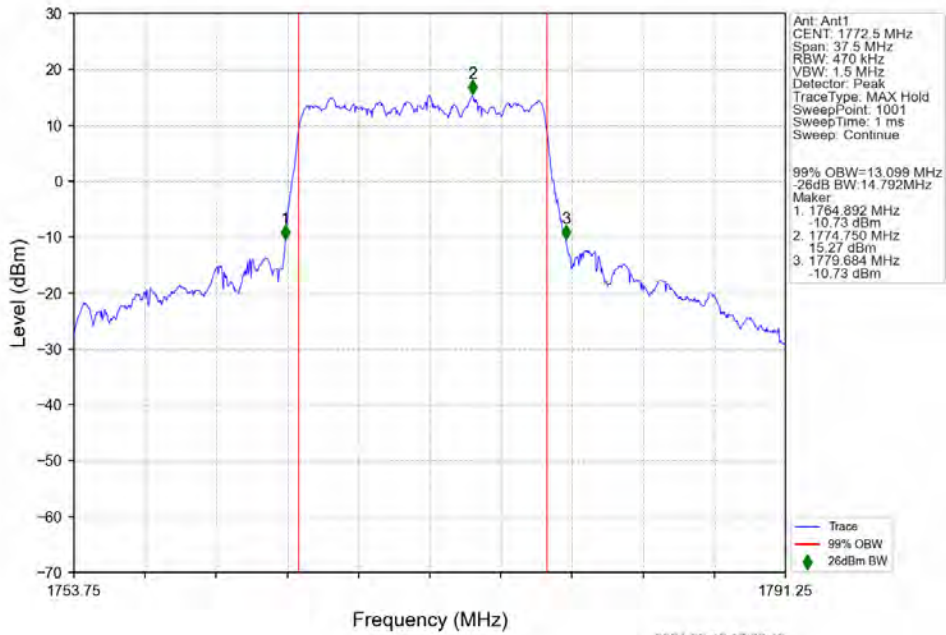
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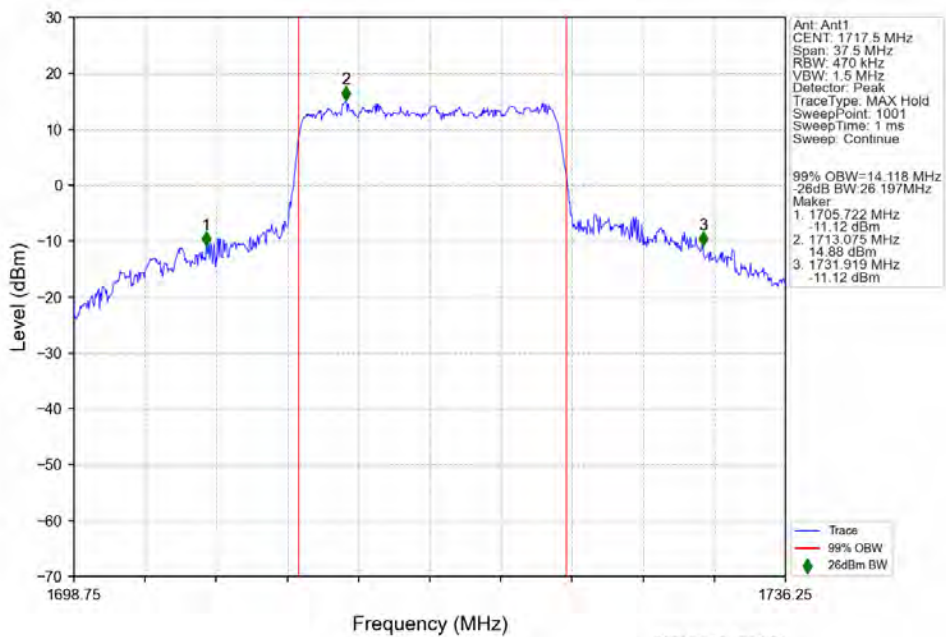
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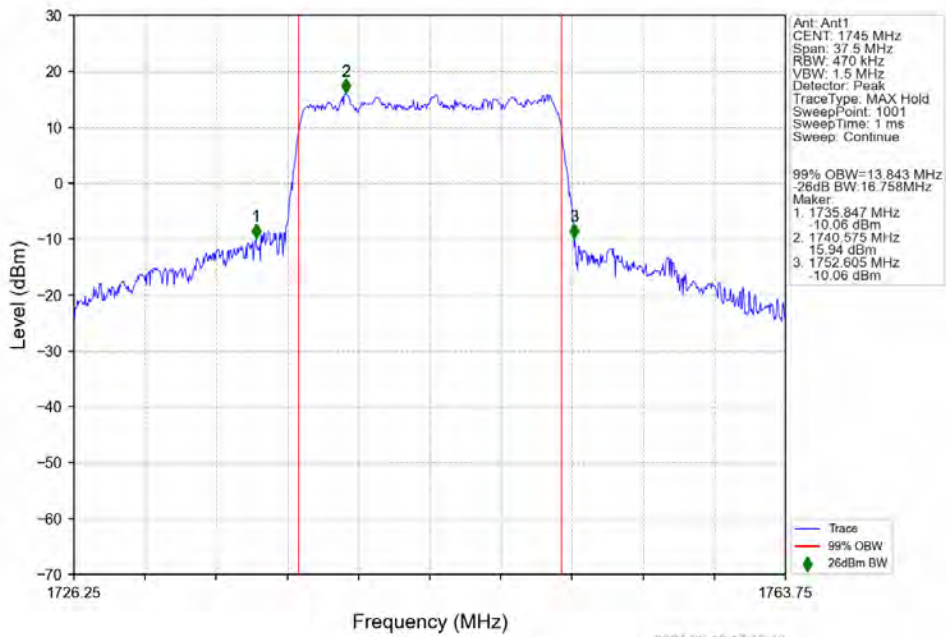
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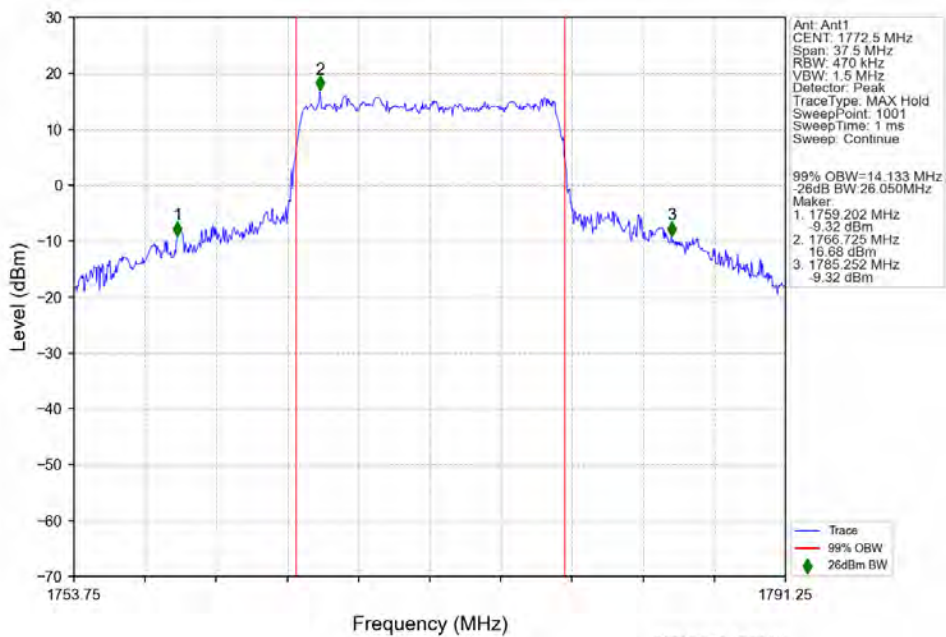
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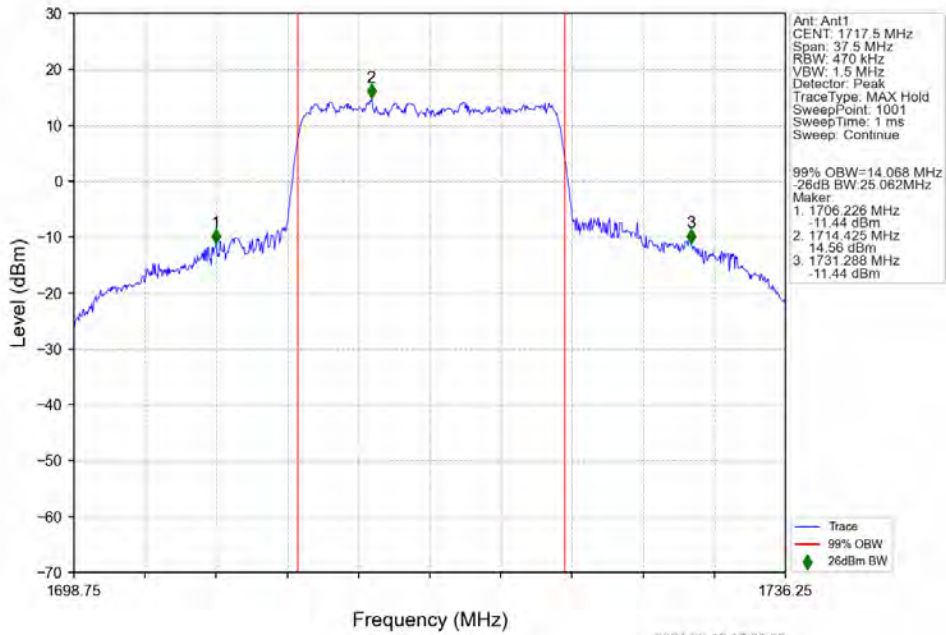
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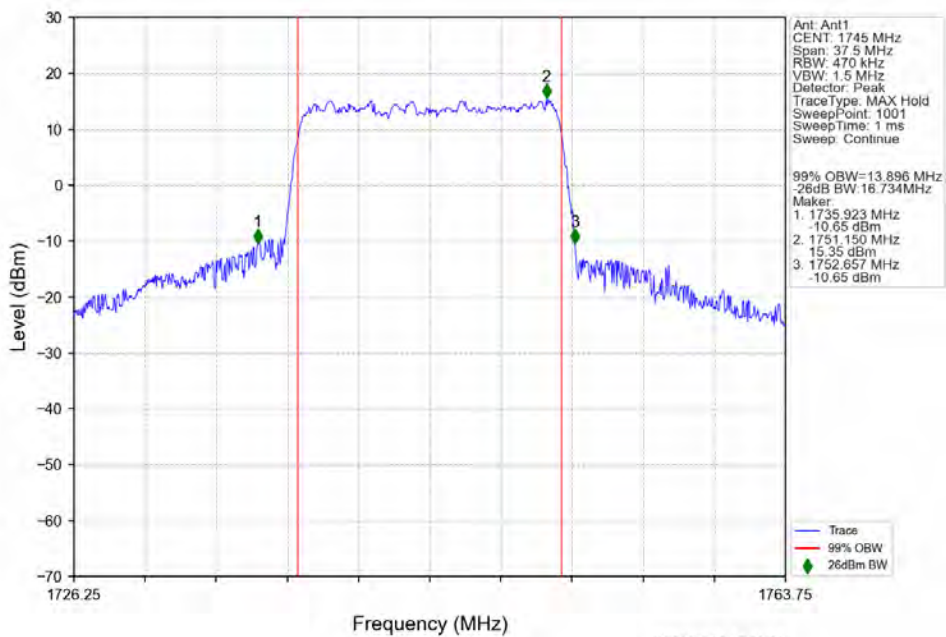
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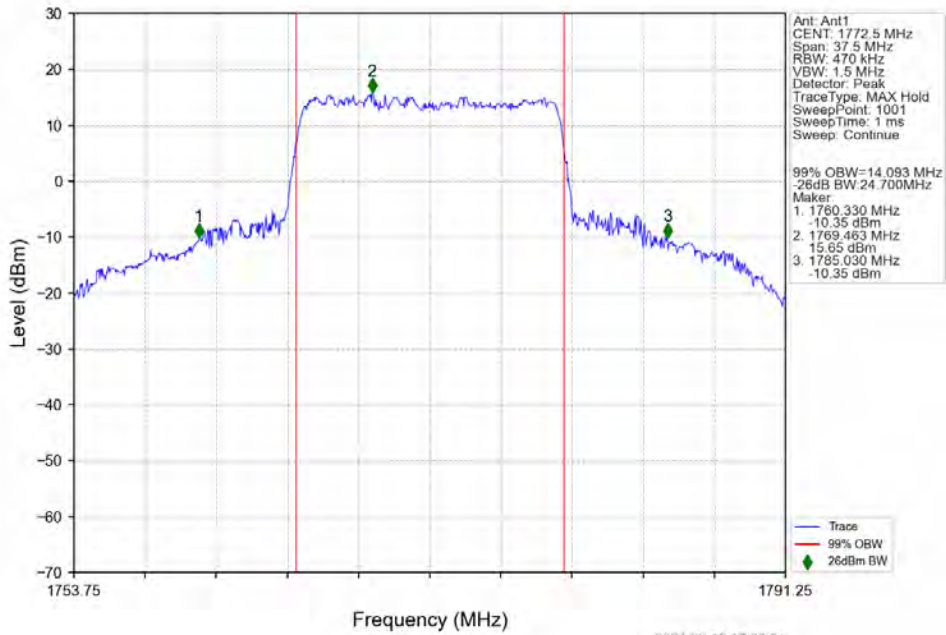
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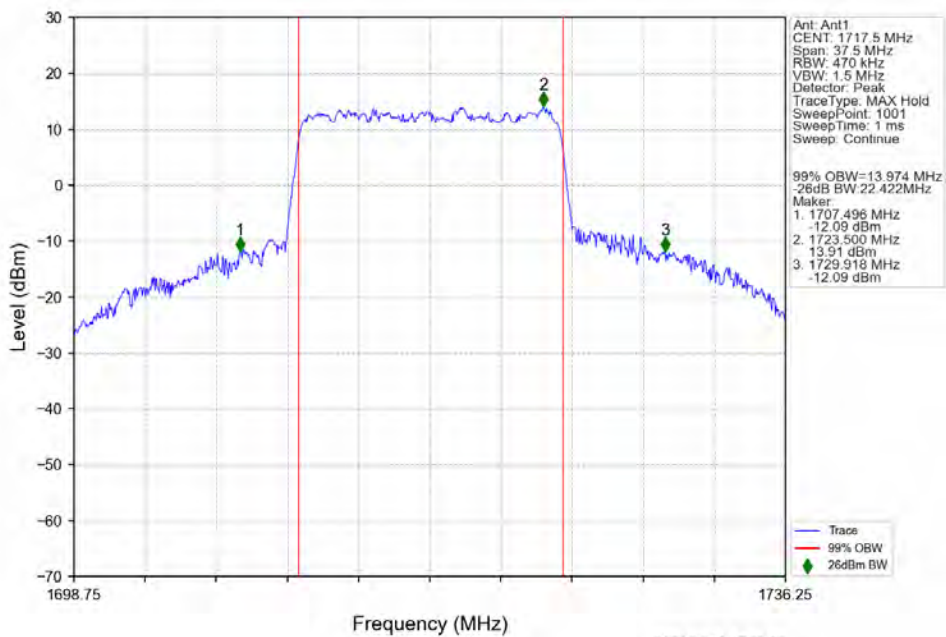
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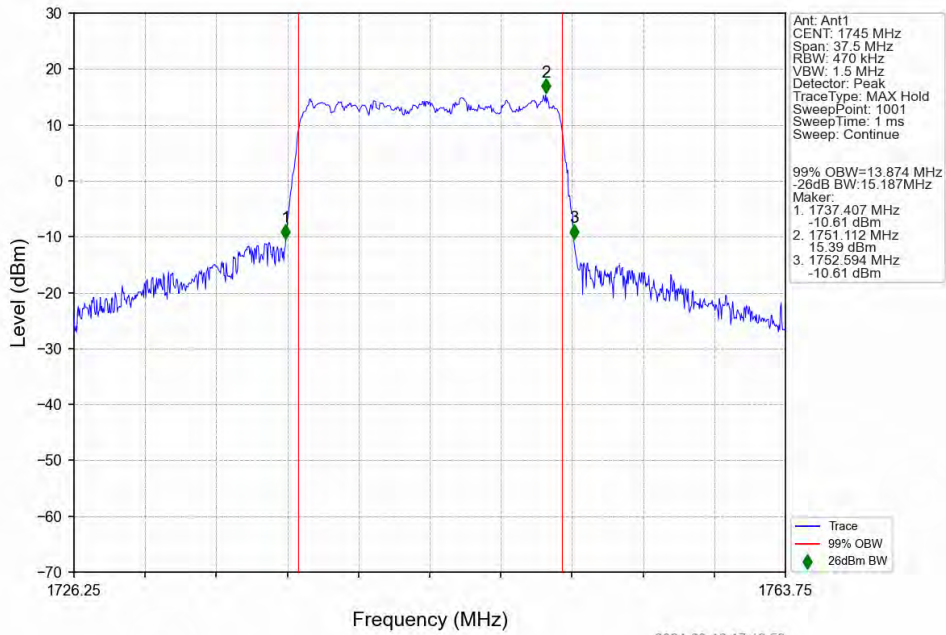
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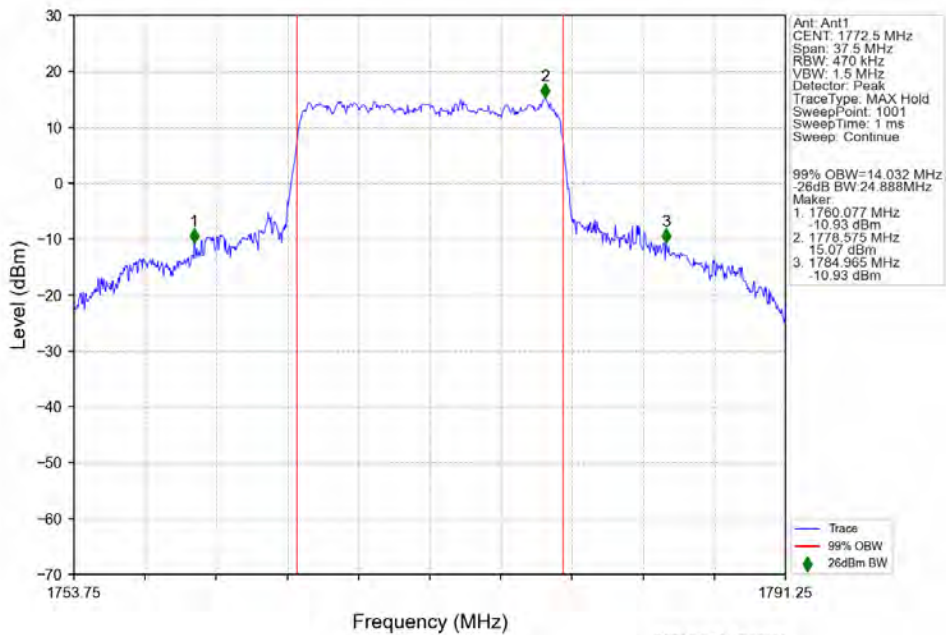
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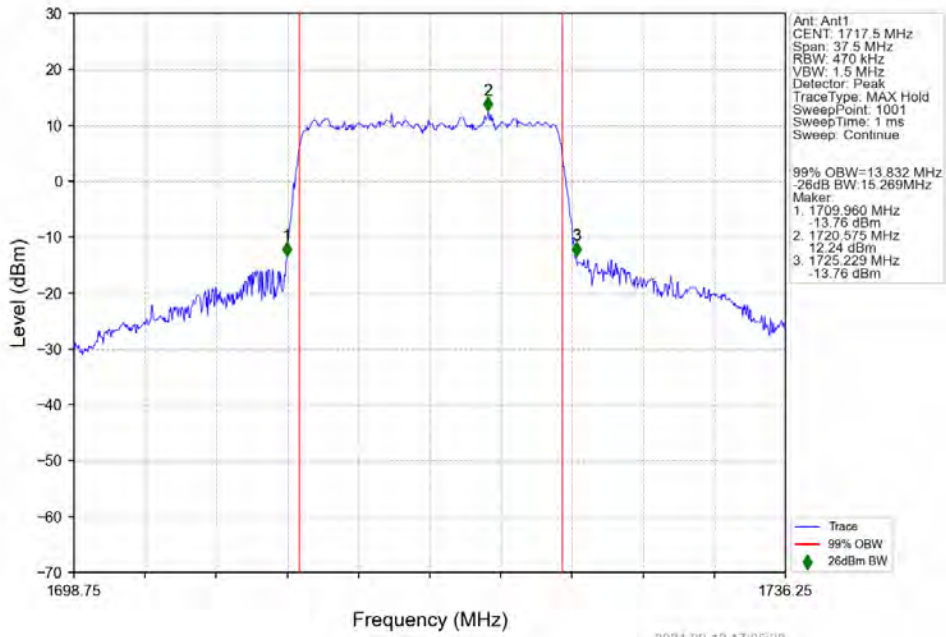
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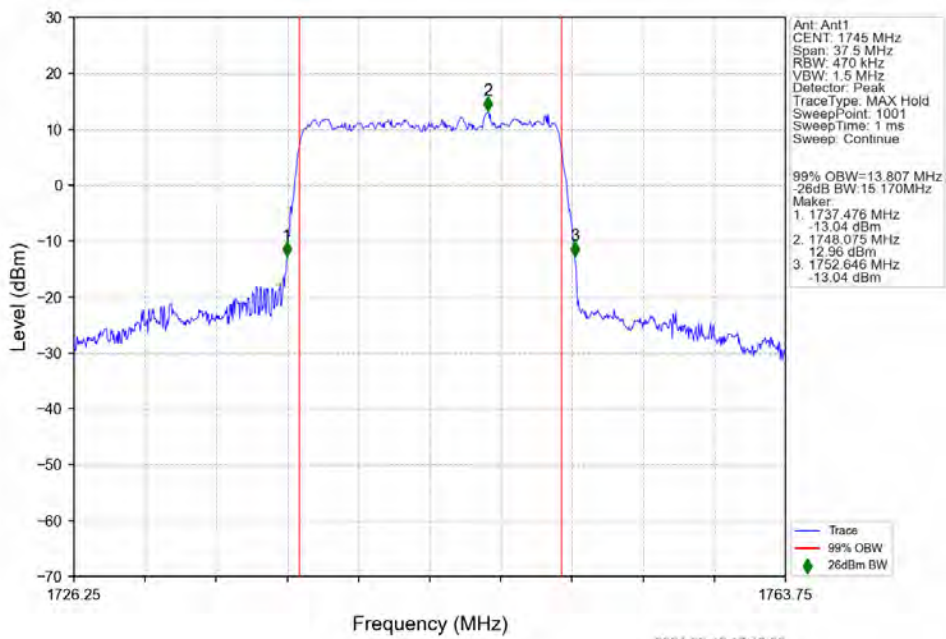
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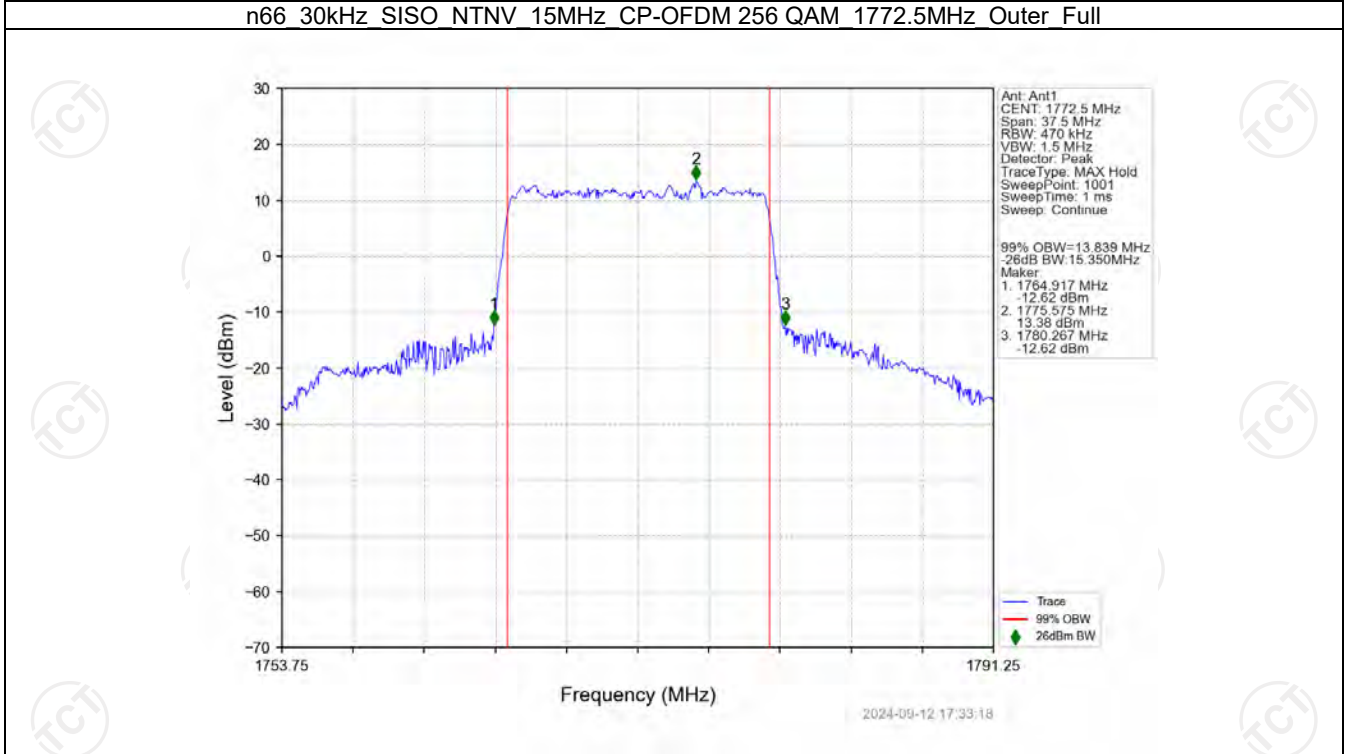
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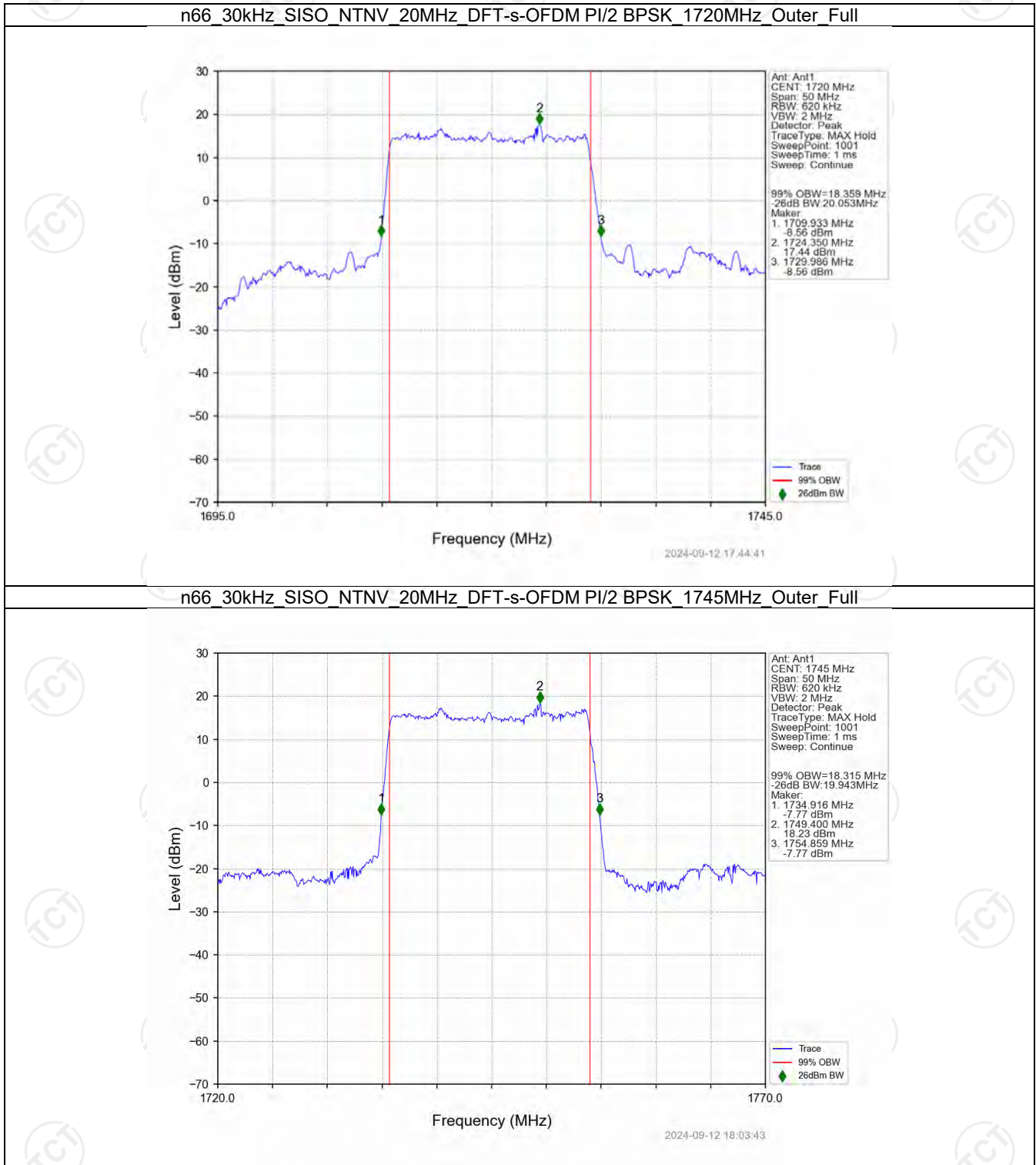
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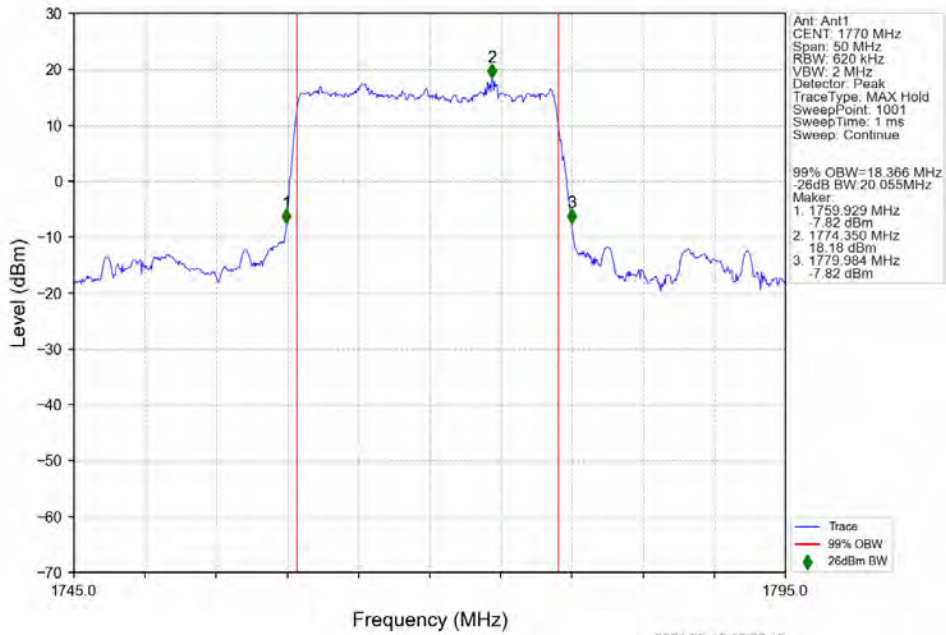
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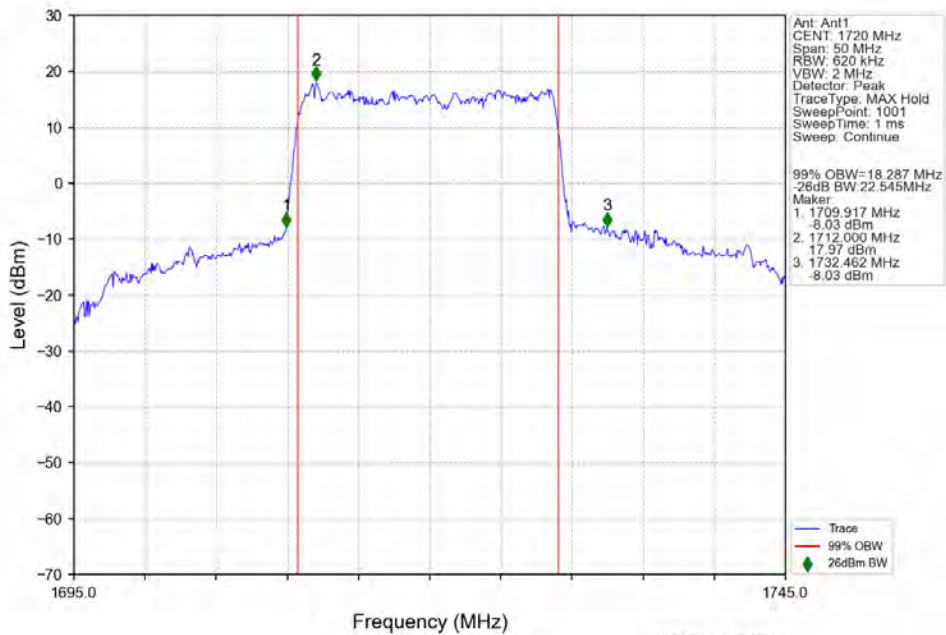
4.2.8 30k_SISO_20MHz_NTNV



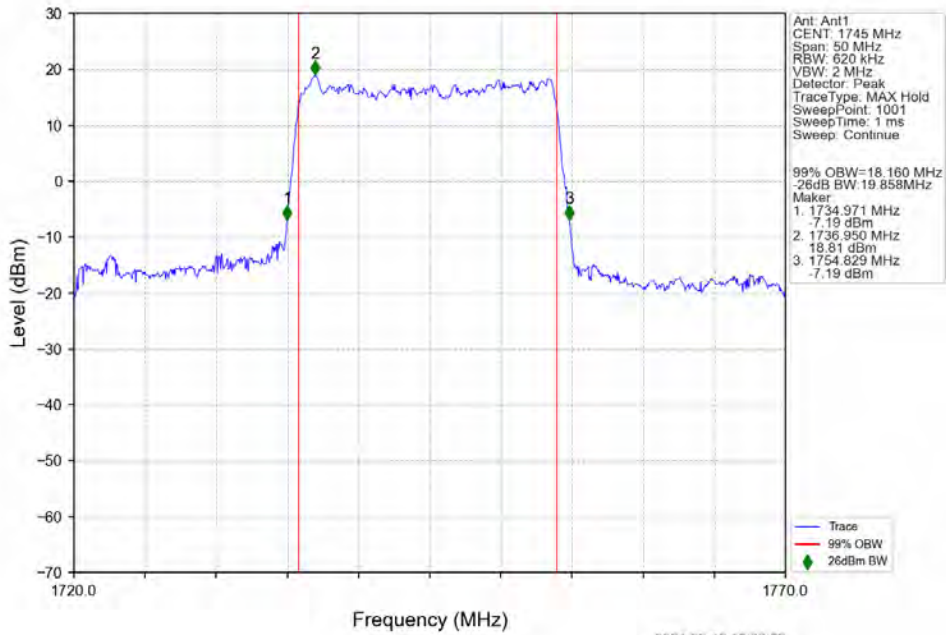
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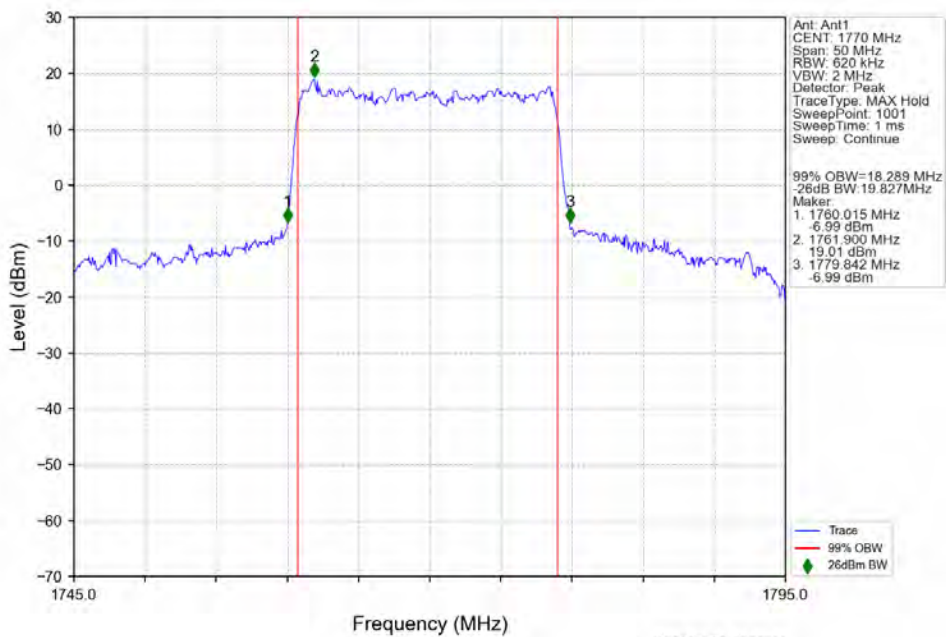
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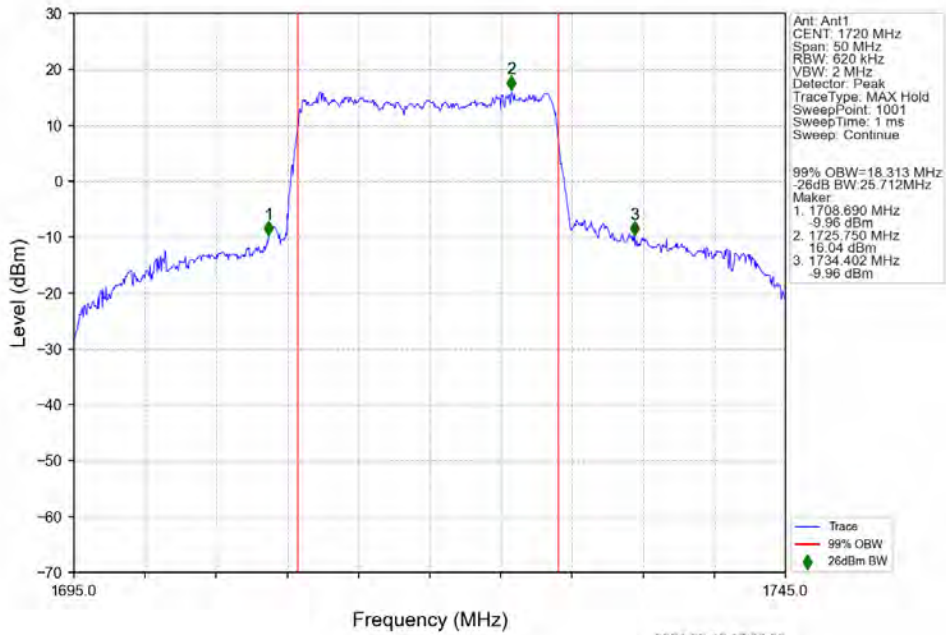
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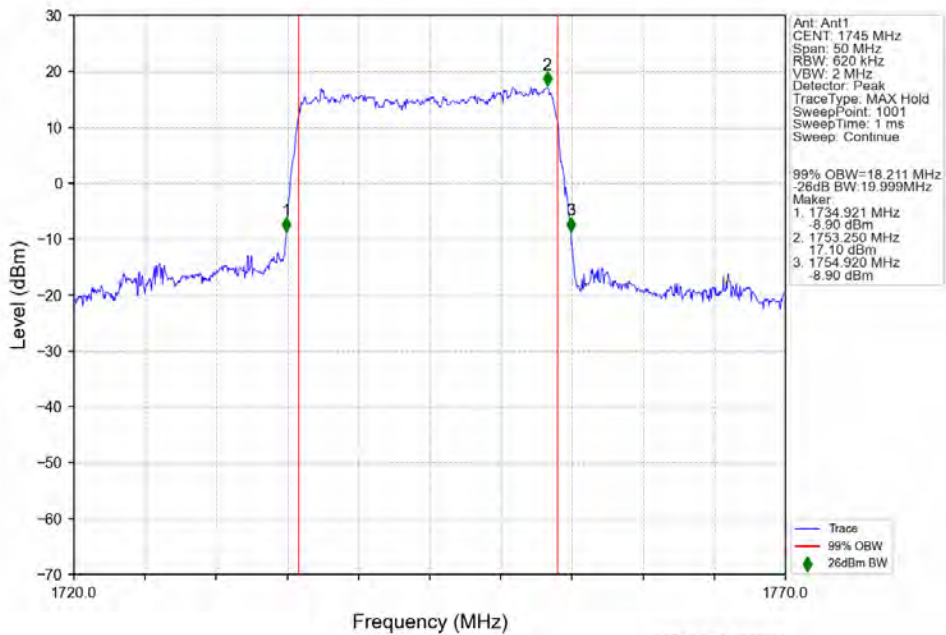
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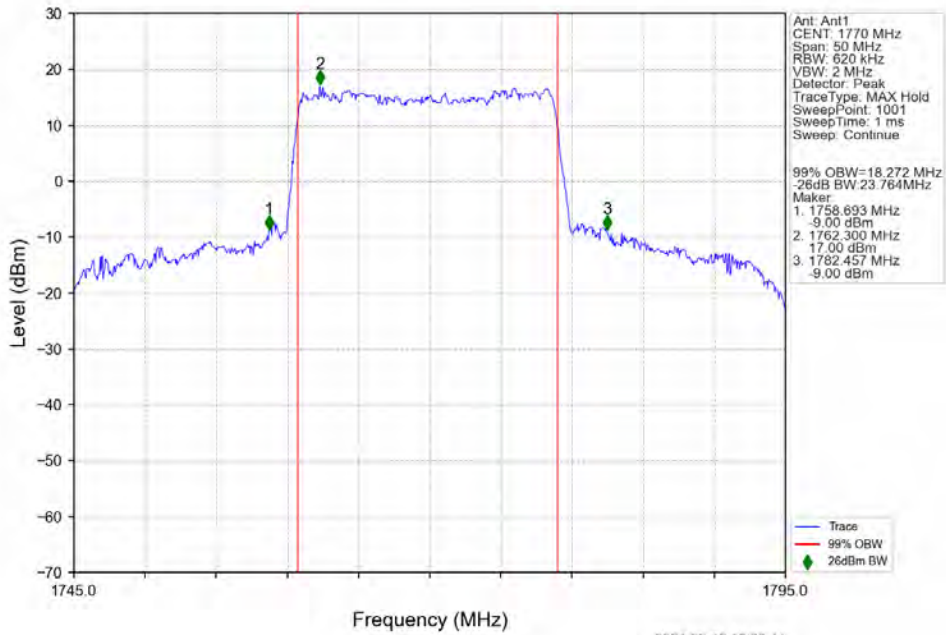
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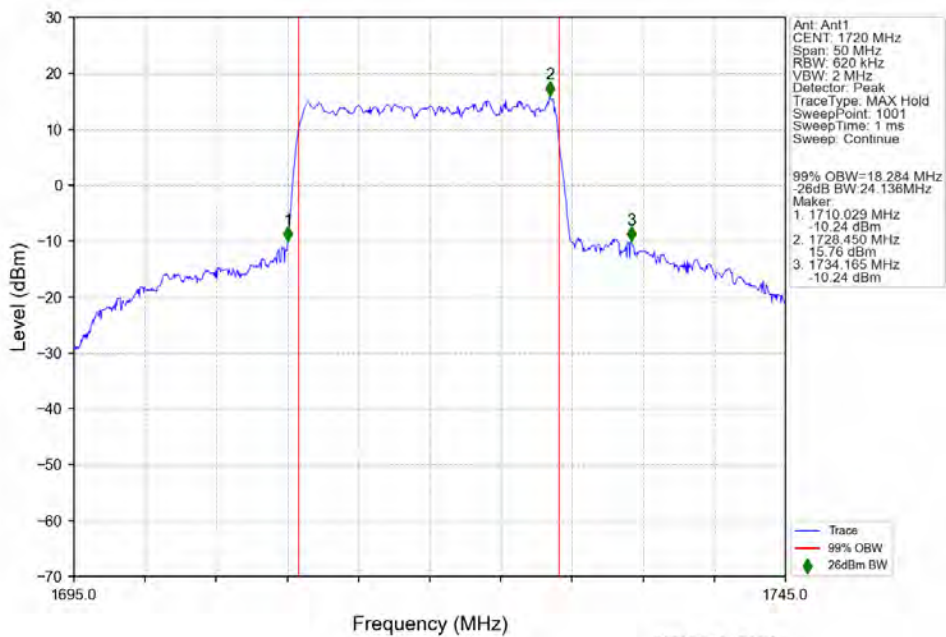
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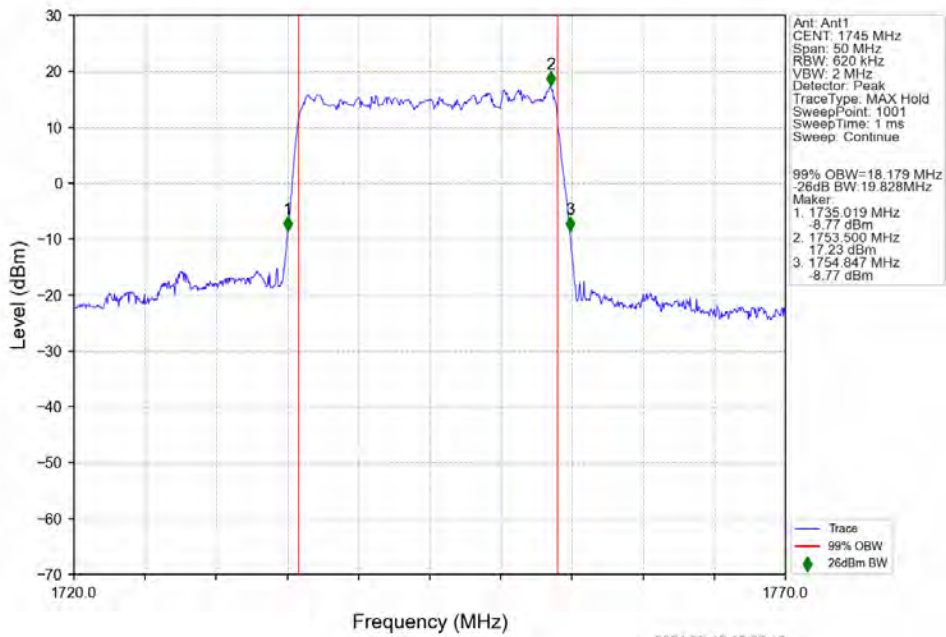
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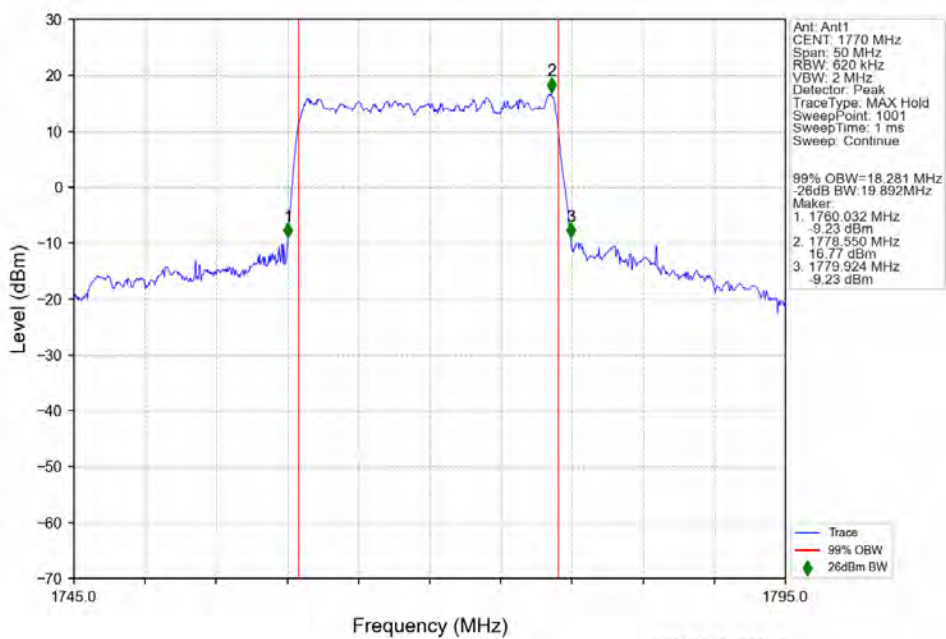
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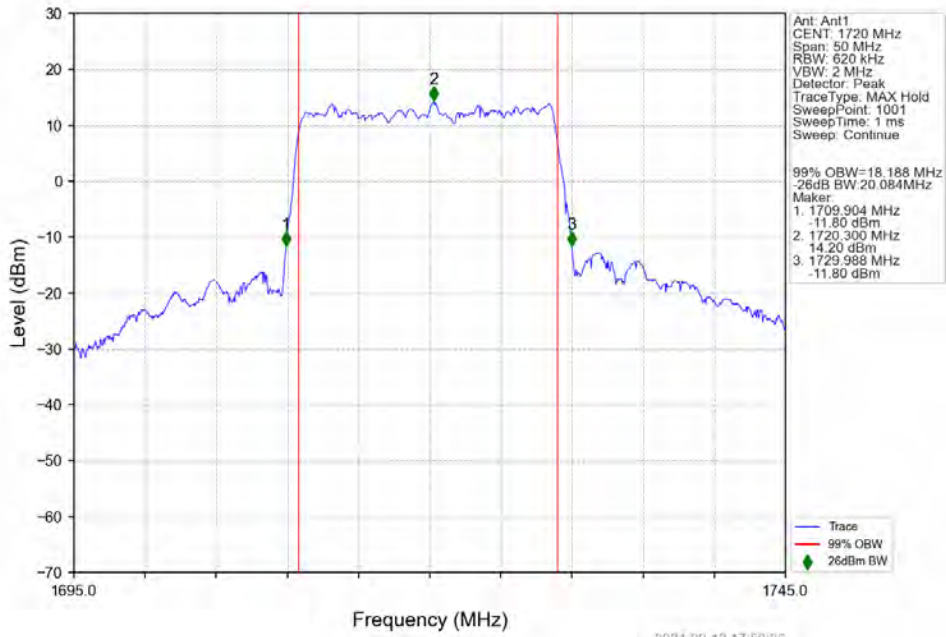
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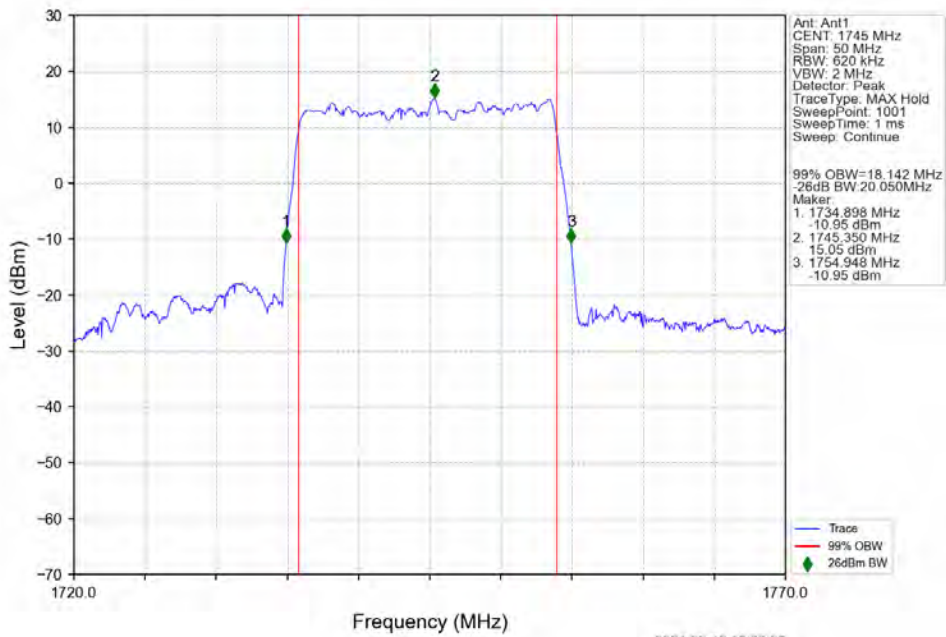
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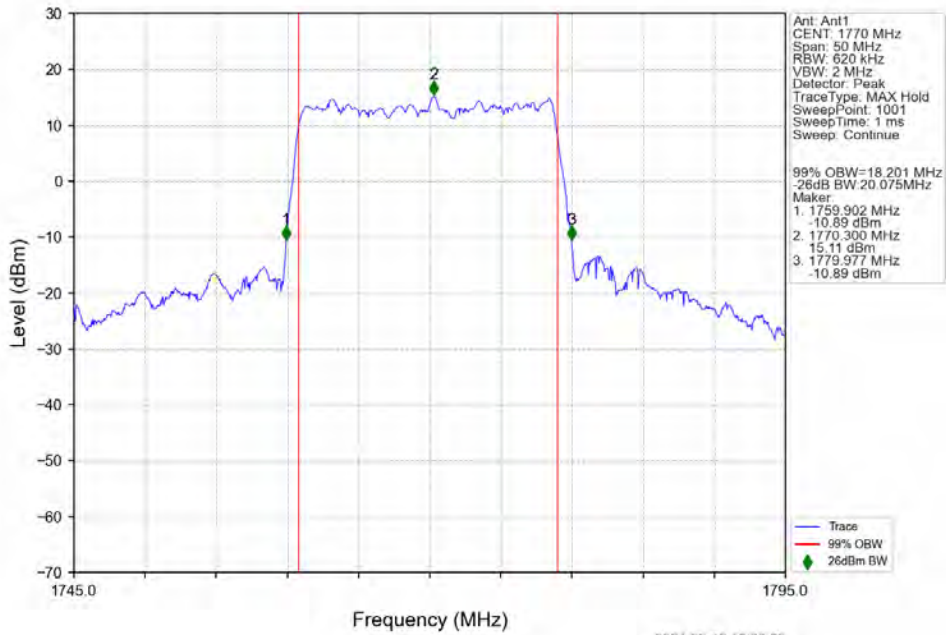
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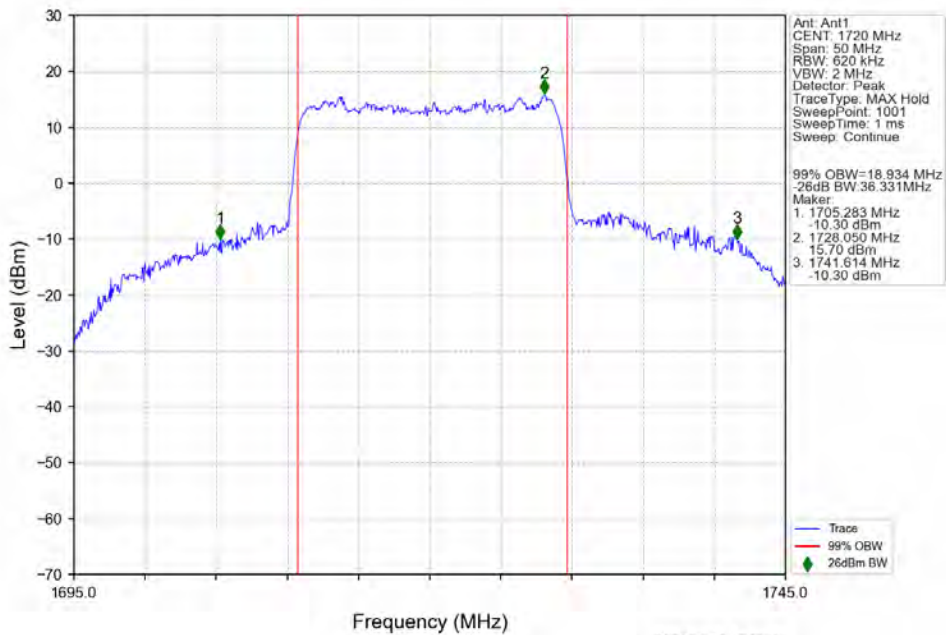
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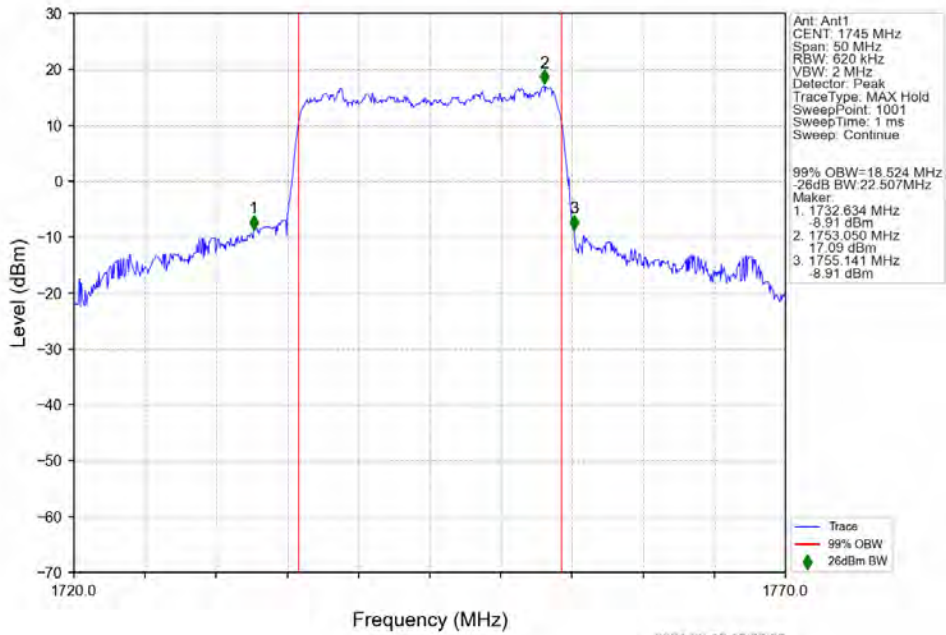
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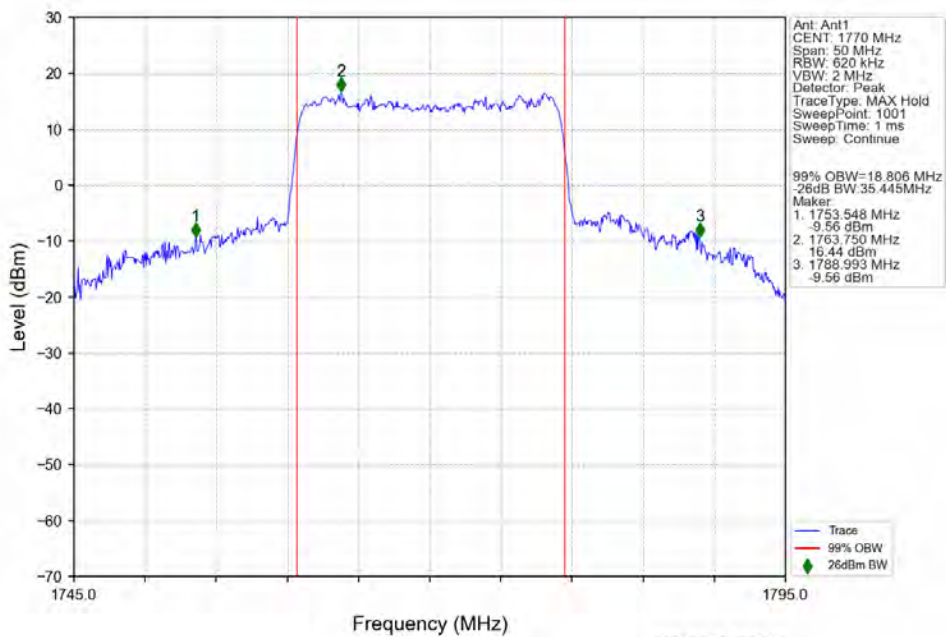
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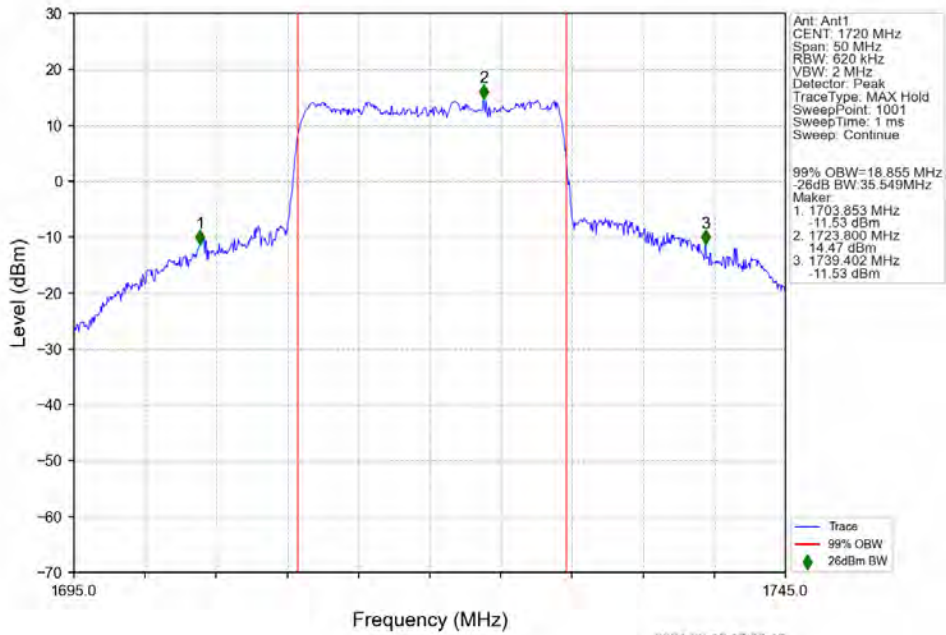
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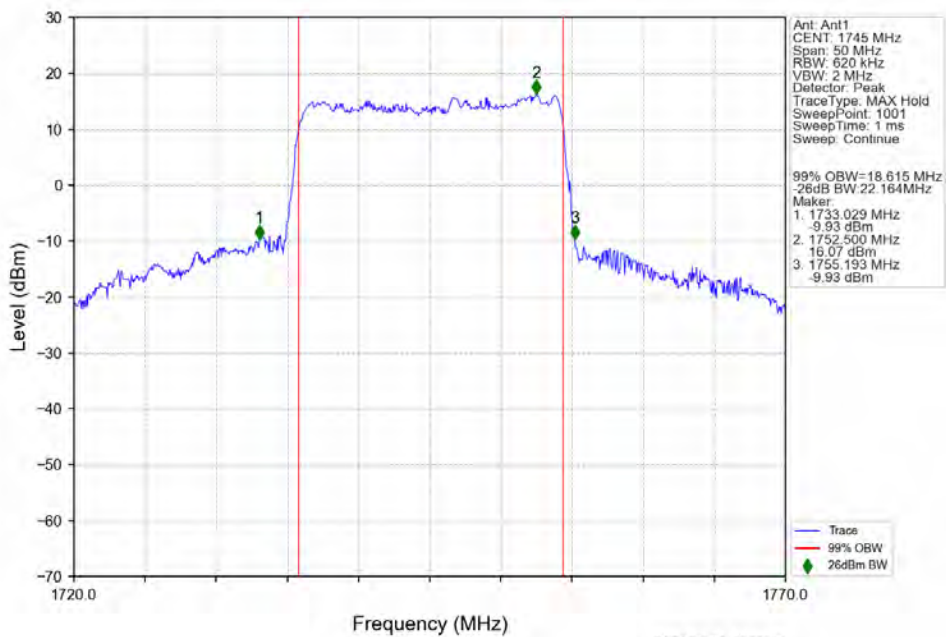
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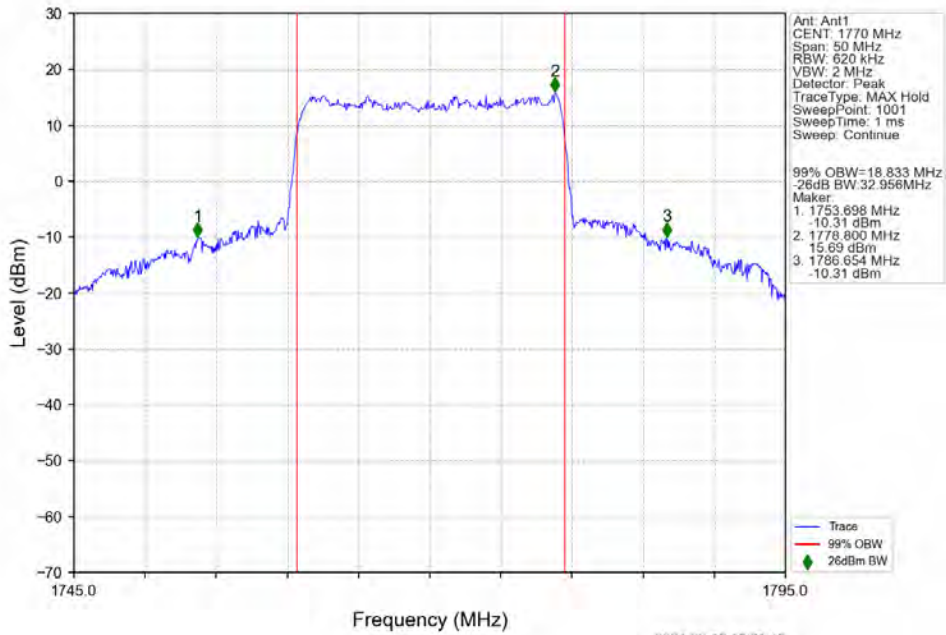
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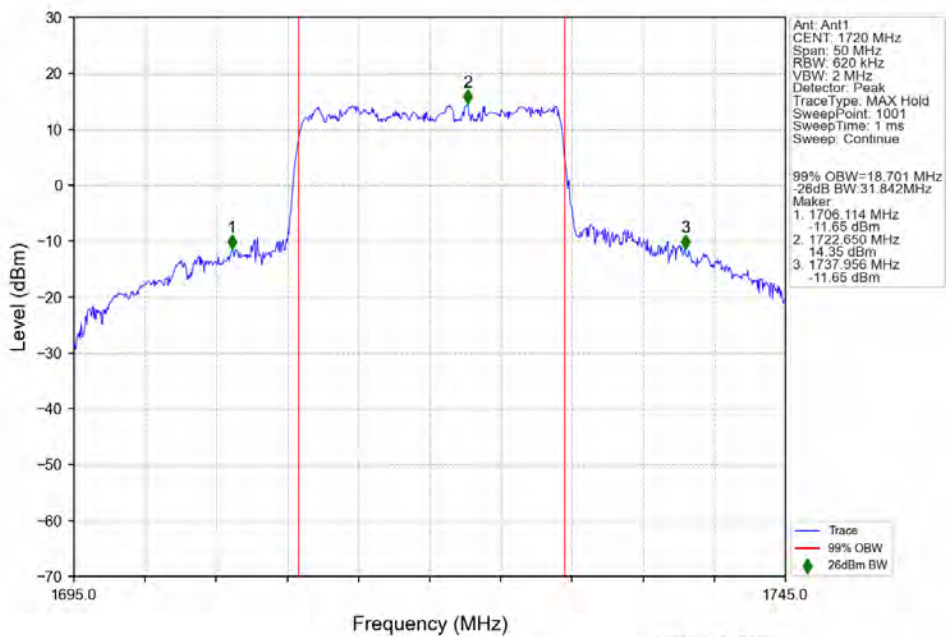
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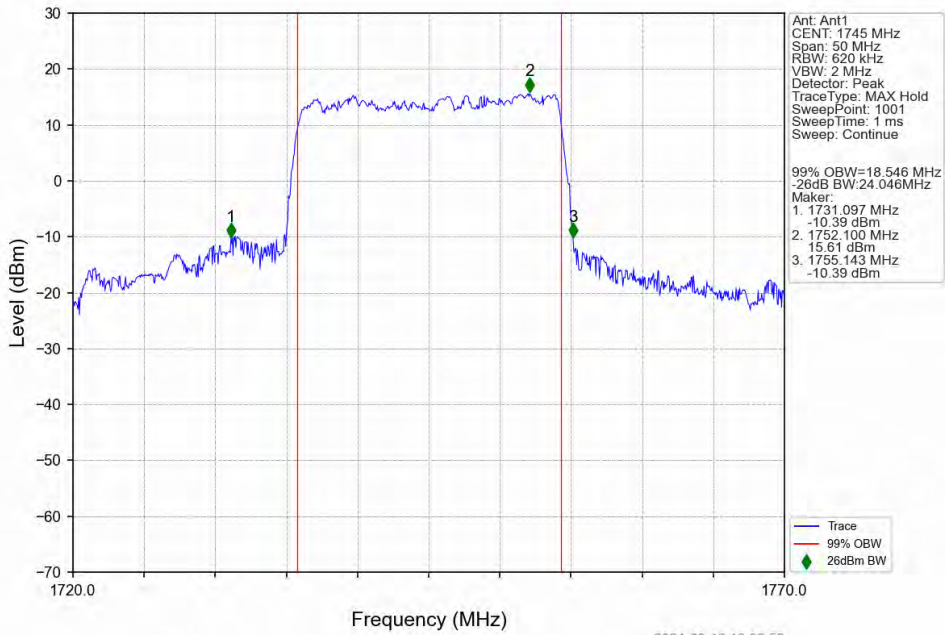
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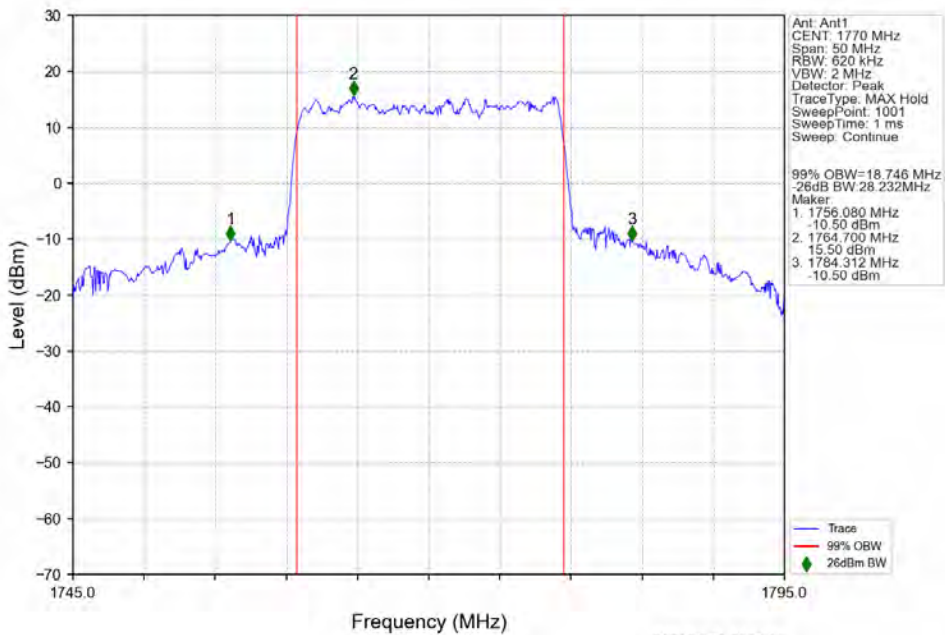
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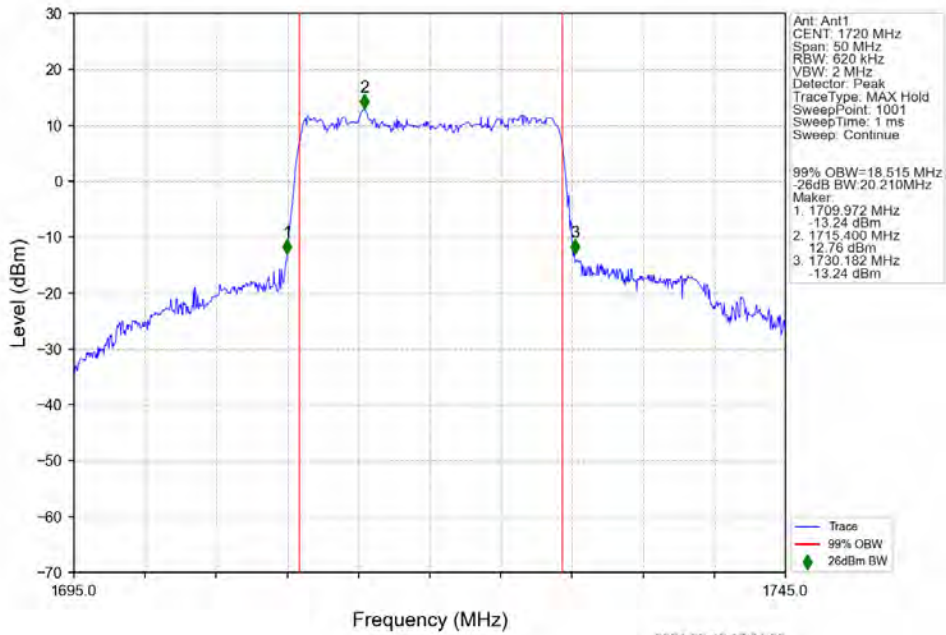
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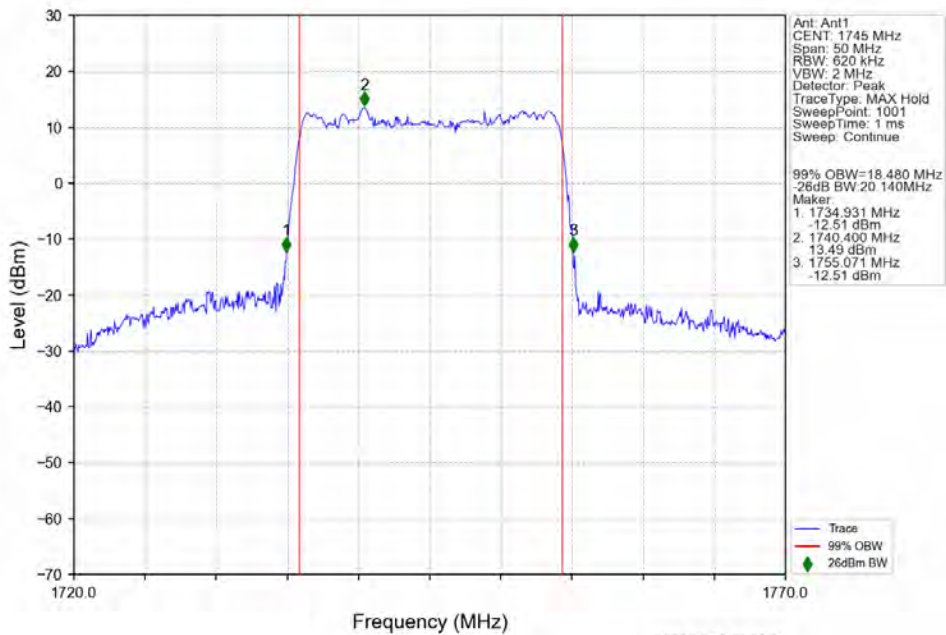
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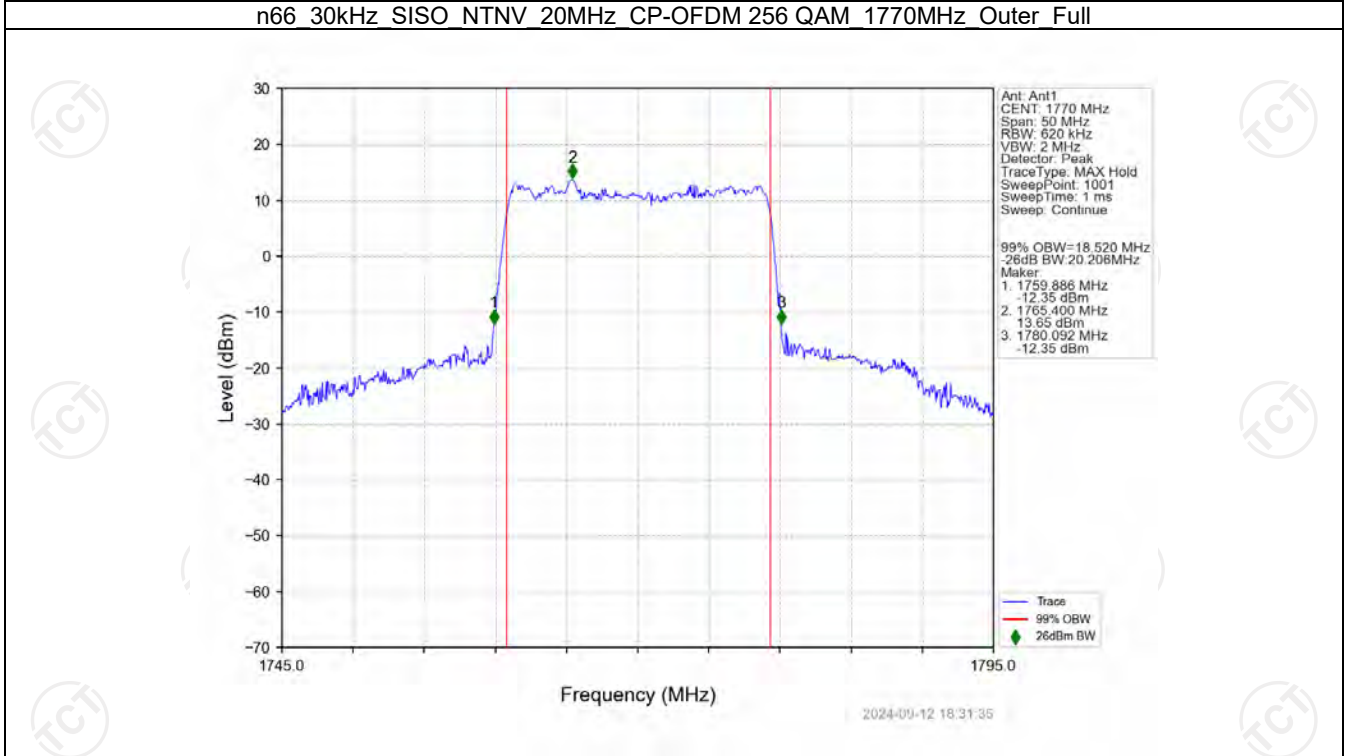
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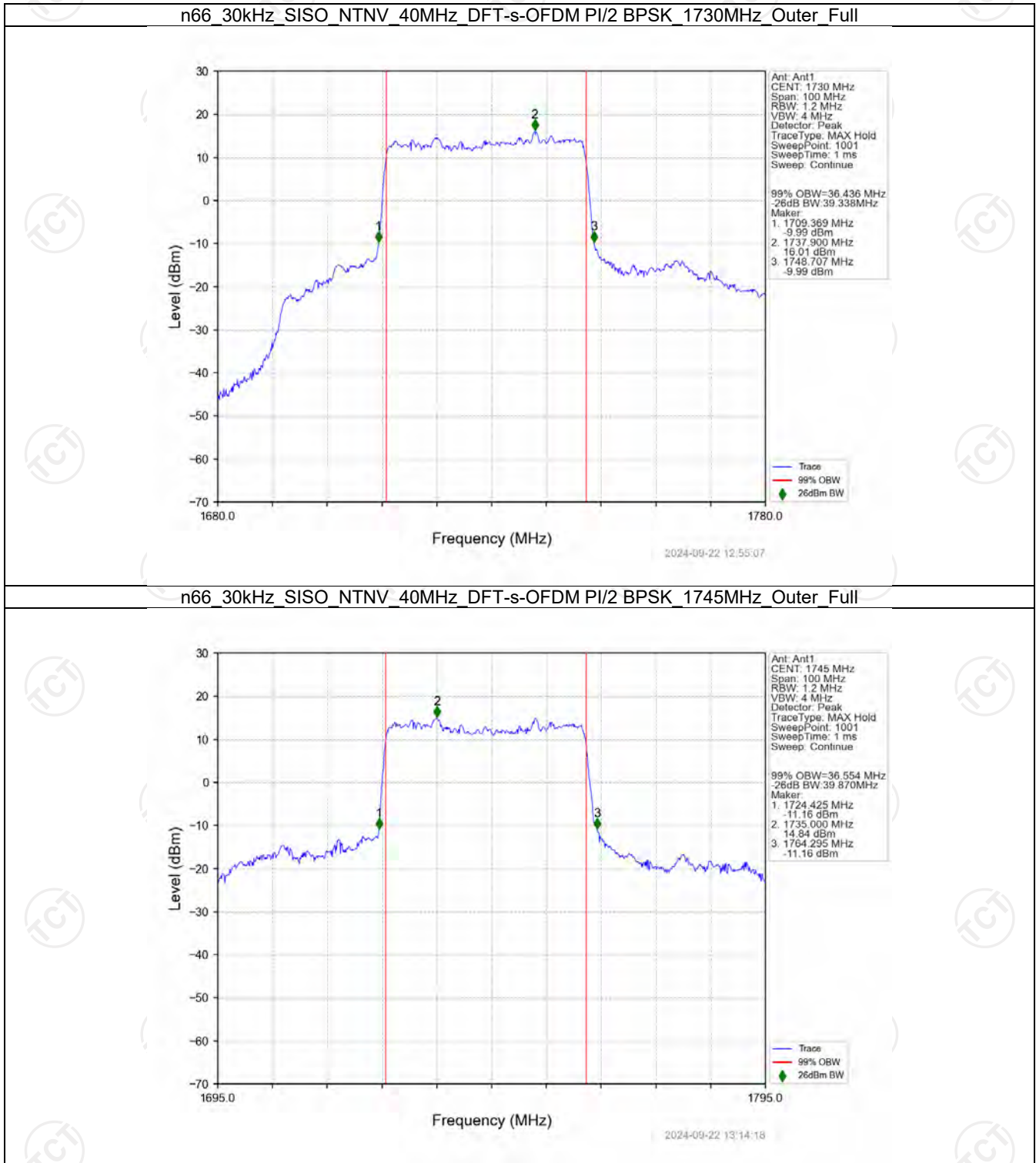
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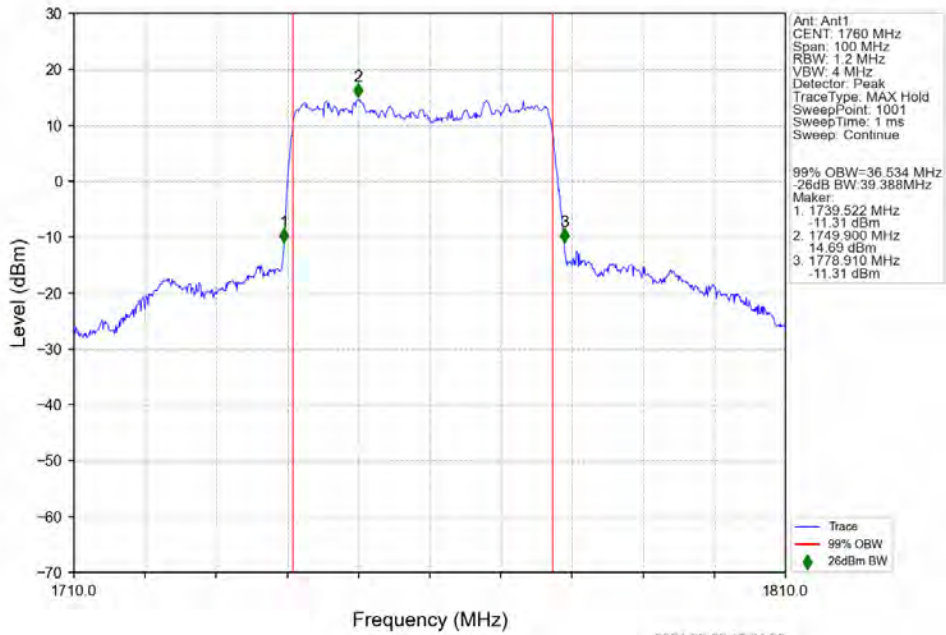
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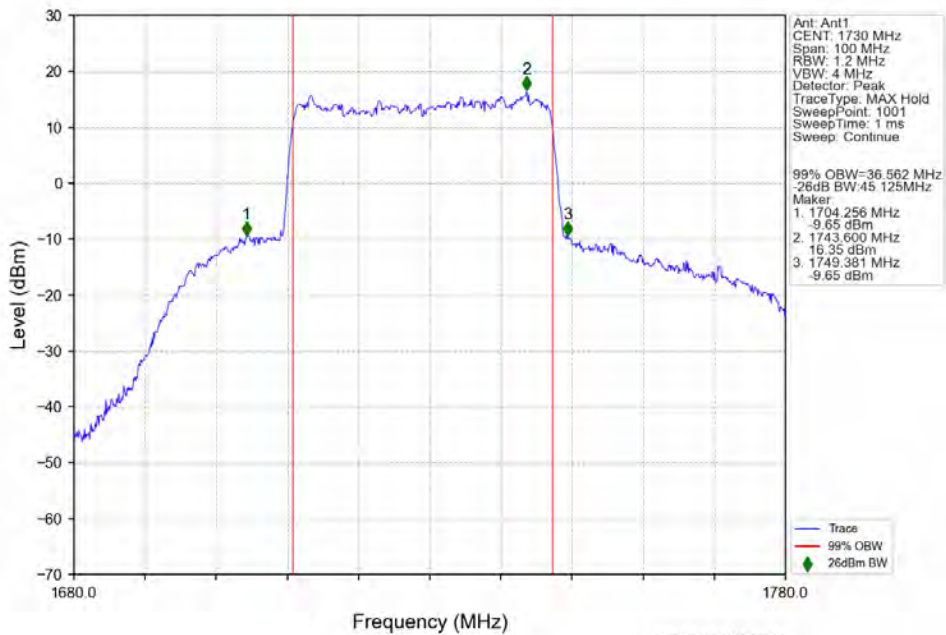
4.2.9 30k_SISO_40MHz_NTNV



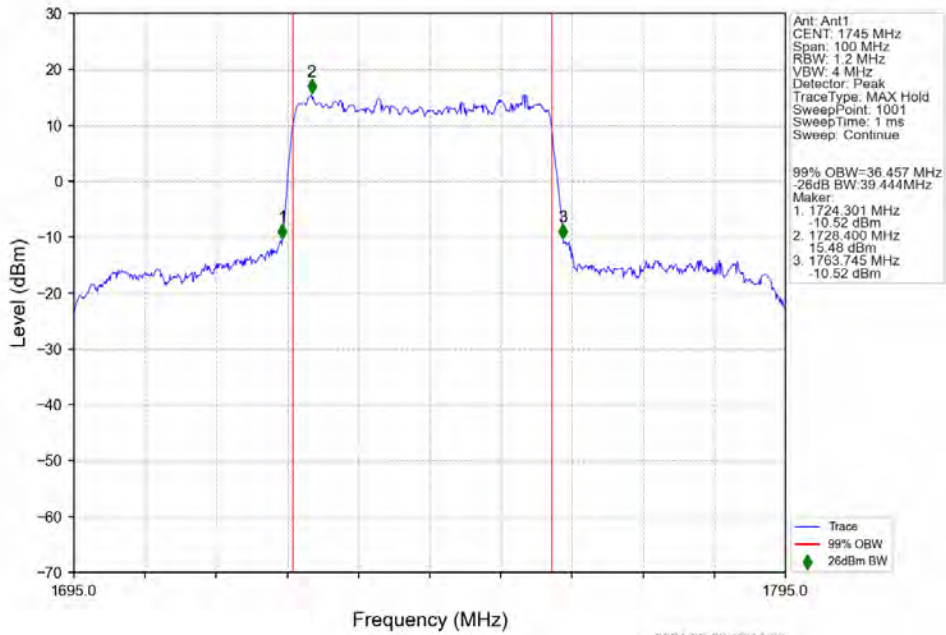
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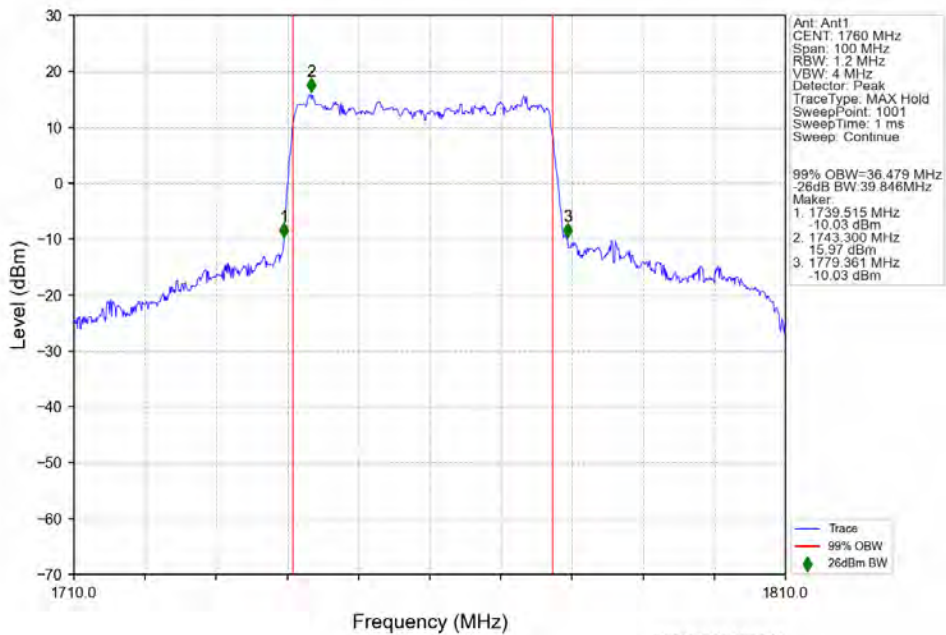
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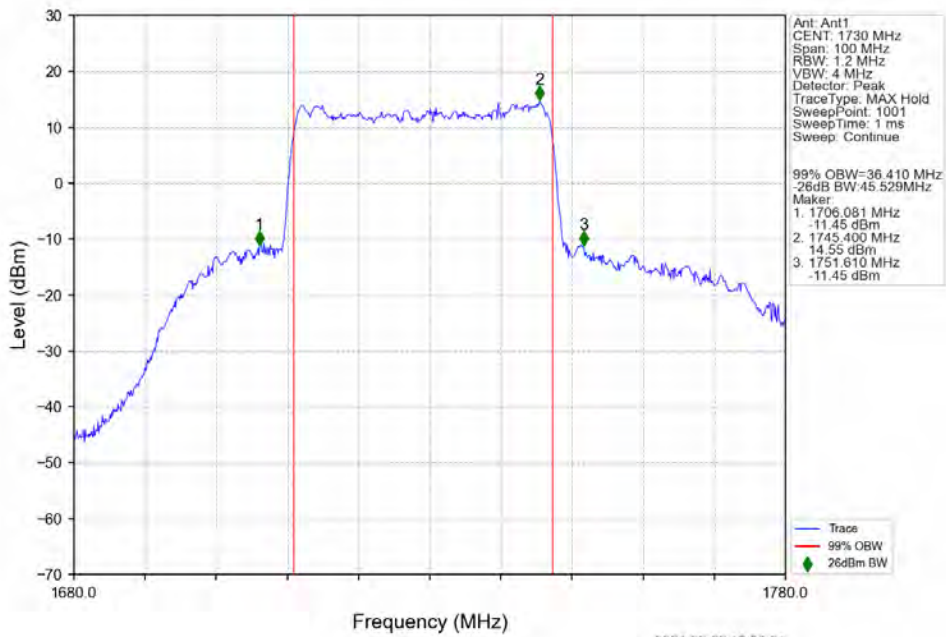
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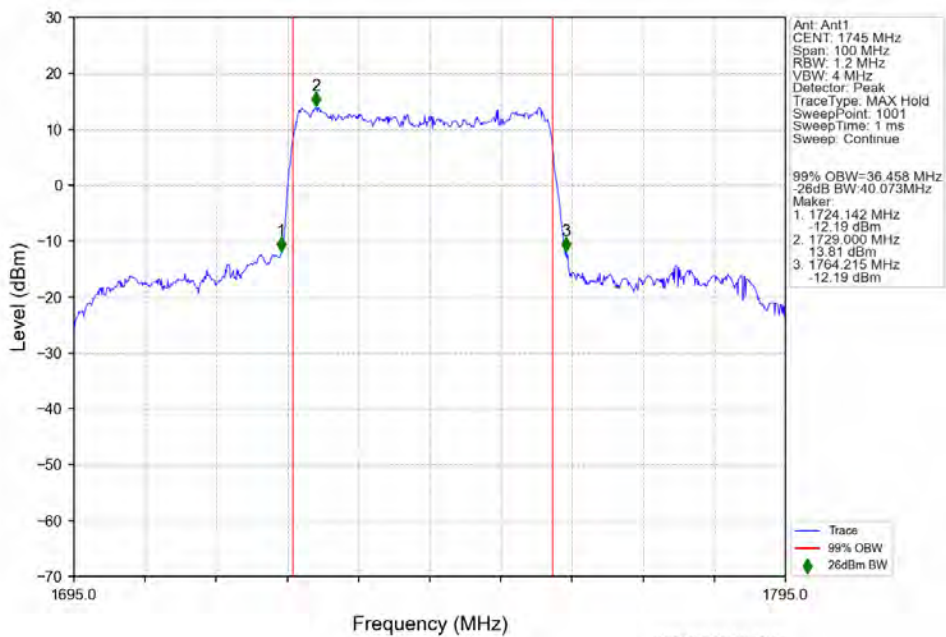
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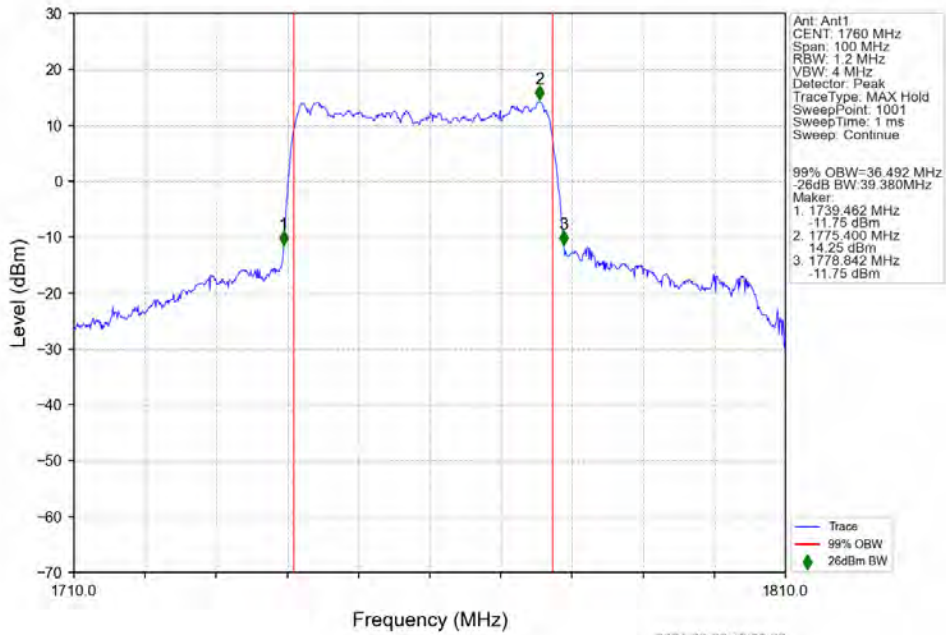
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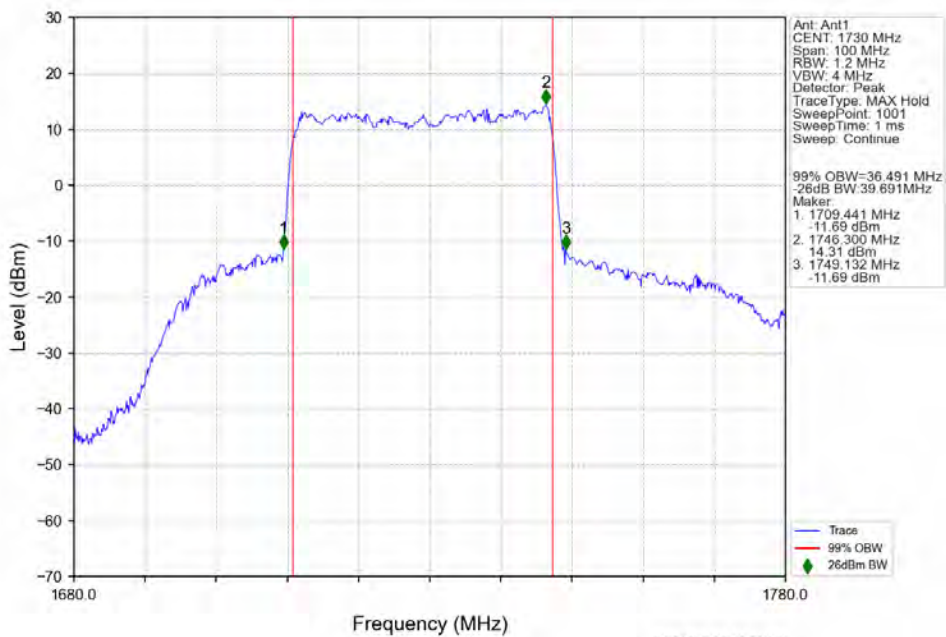
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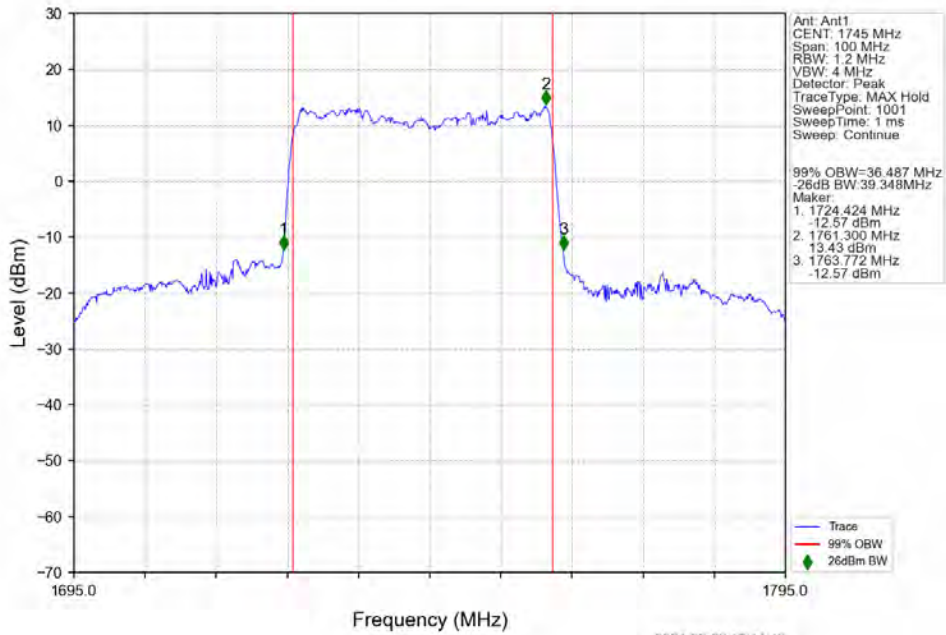
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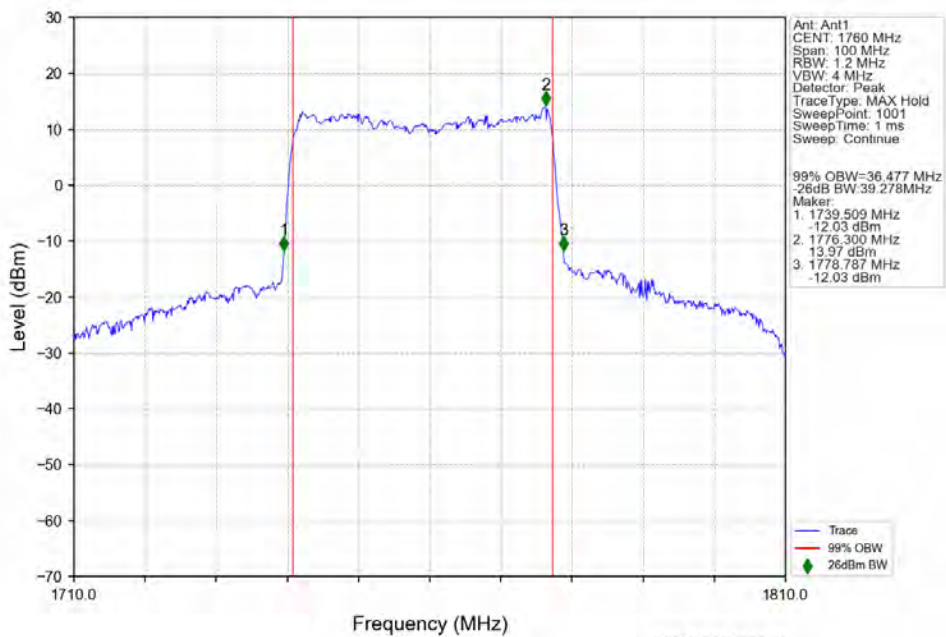
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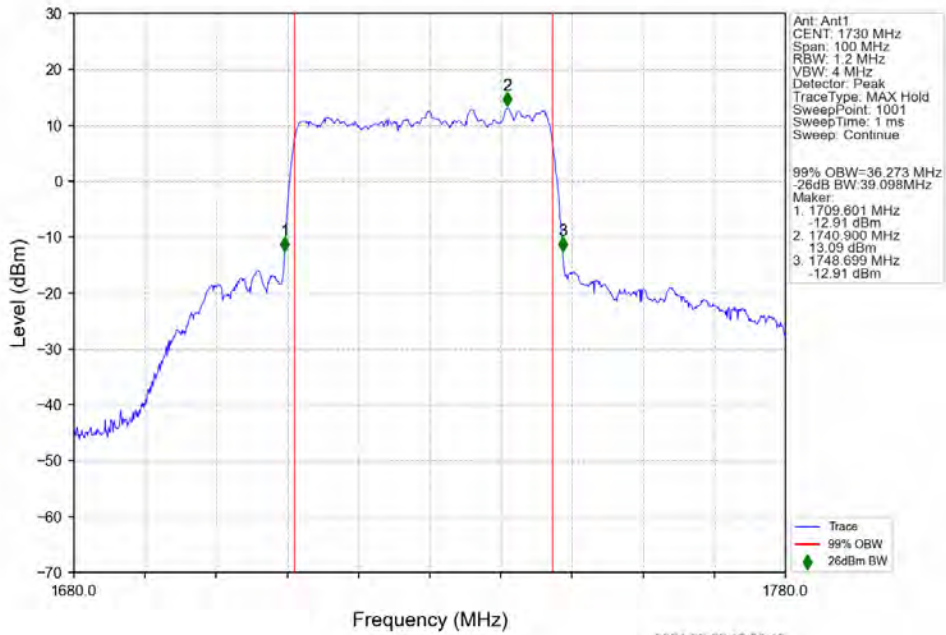
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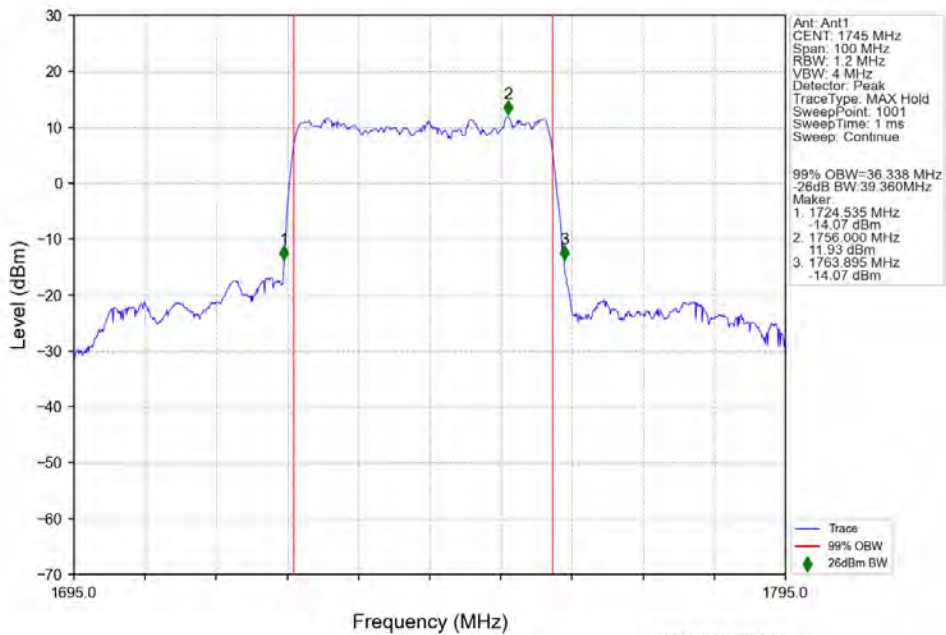
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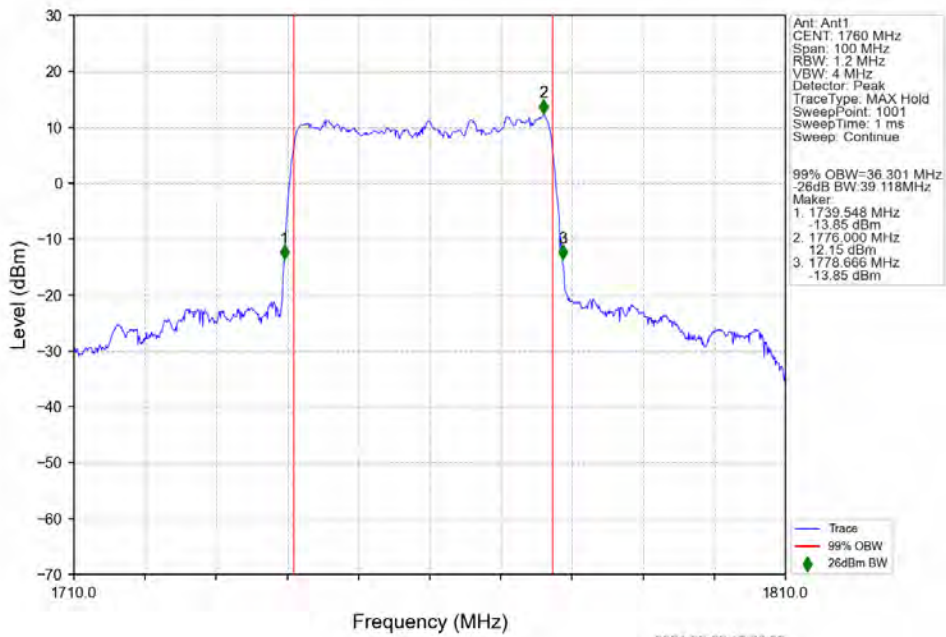
n66 30kHz SISO NTN 40MHz DFT-s-OFDM 256 QAM 1730MHz Outer Full



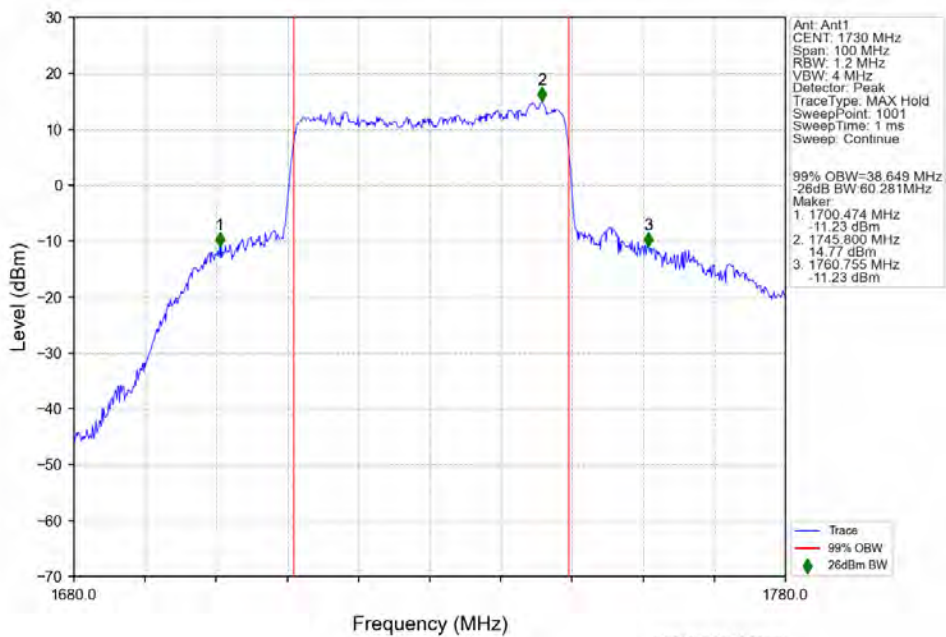
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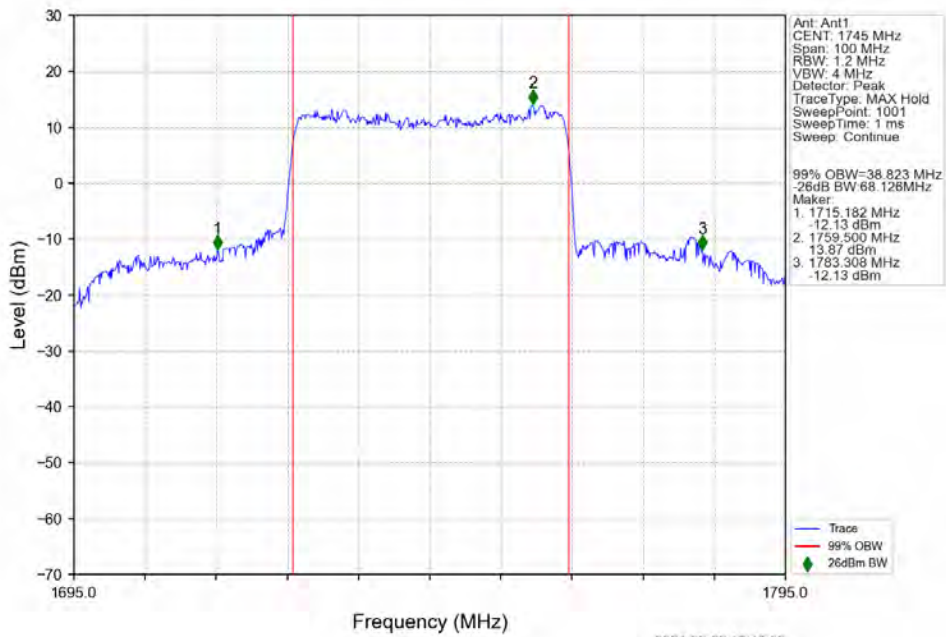
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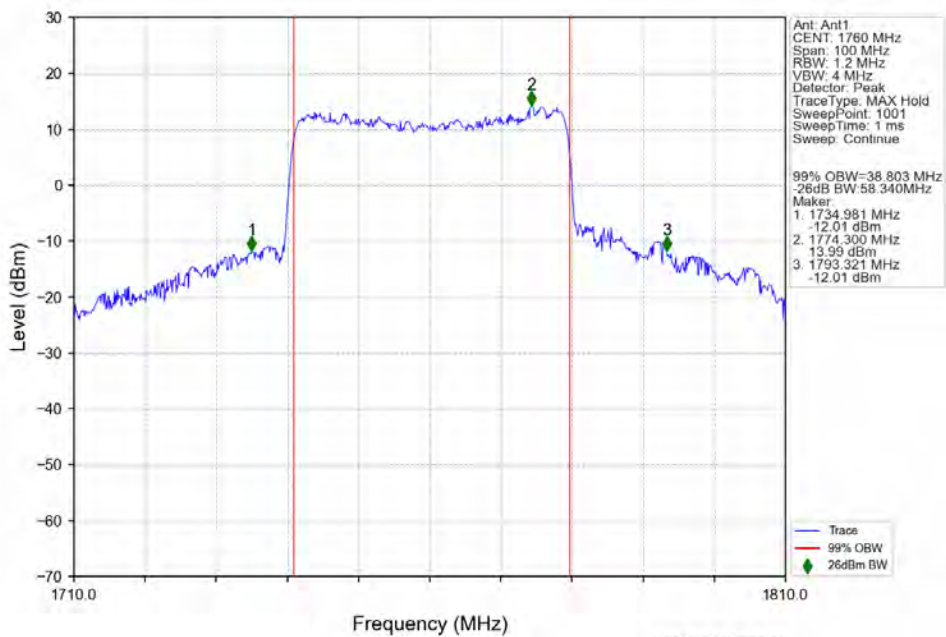
n66 30kHz SISO NTVN 40MHz CP-OFDM QPSK 1730MHz Outer Full



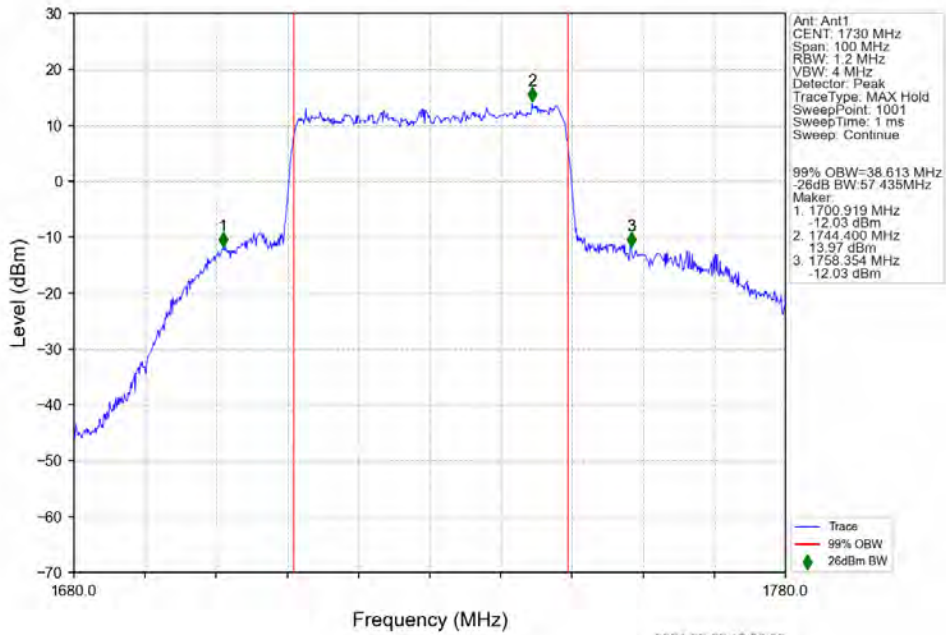
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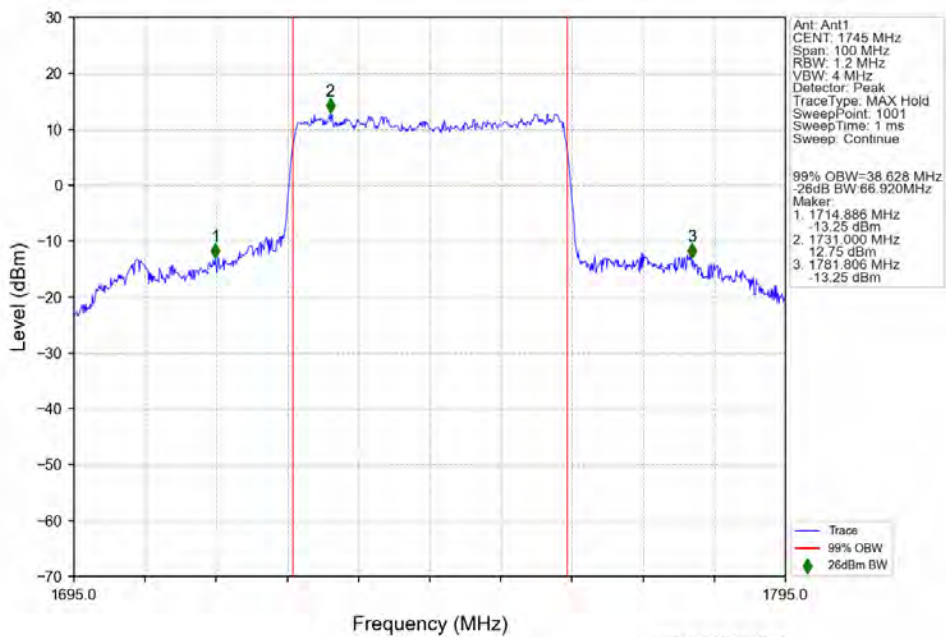
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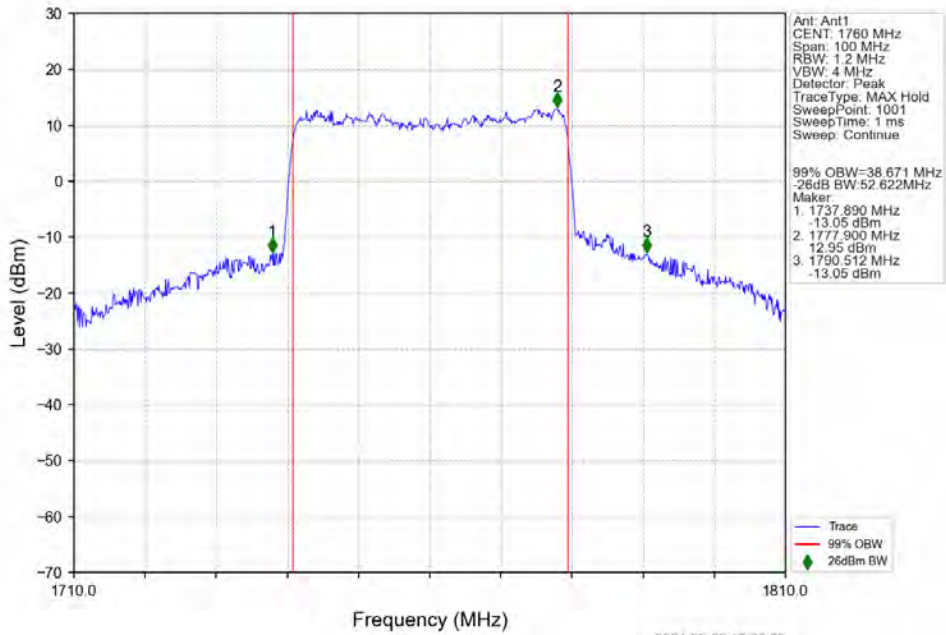
n66 30kHz SISO NTV 40MHz CP-OFDM 16 QAM 1730MHz Outer Full



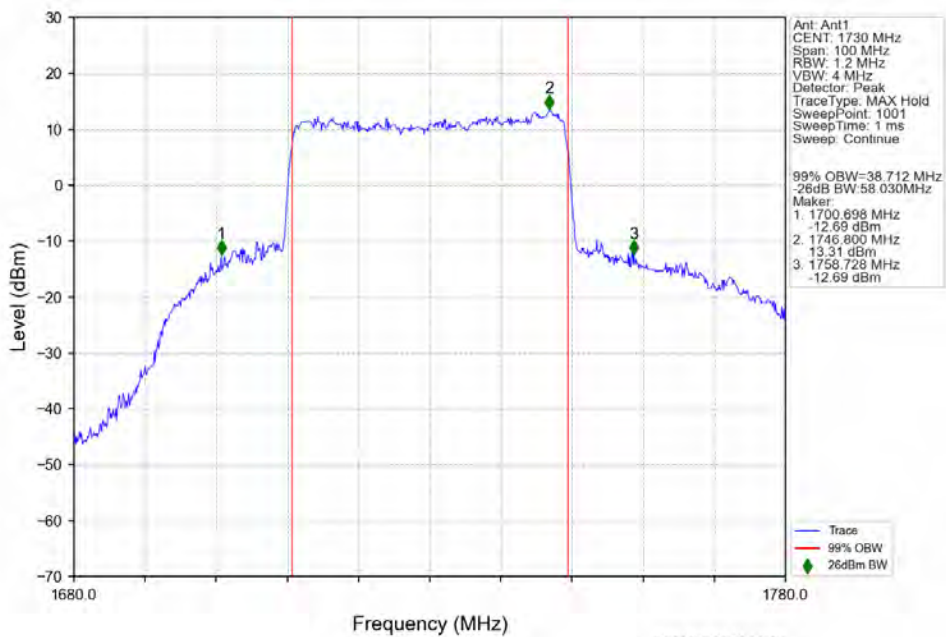
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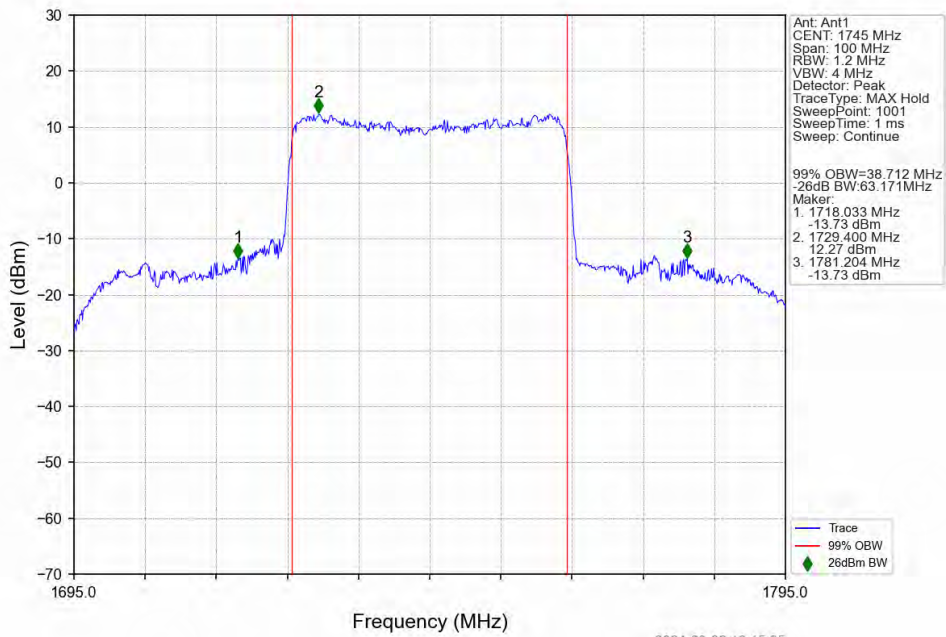
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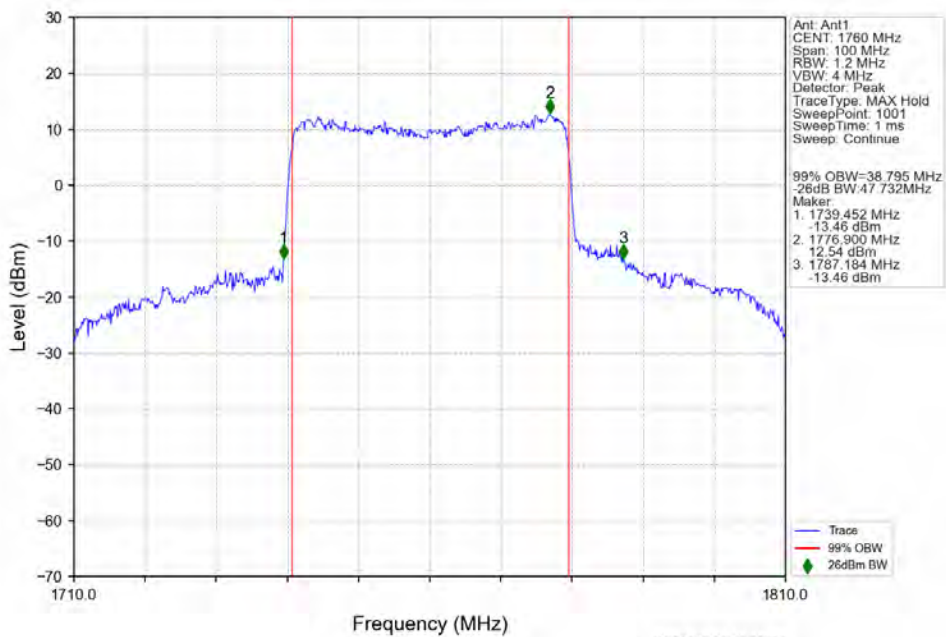
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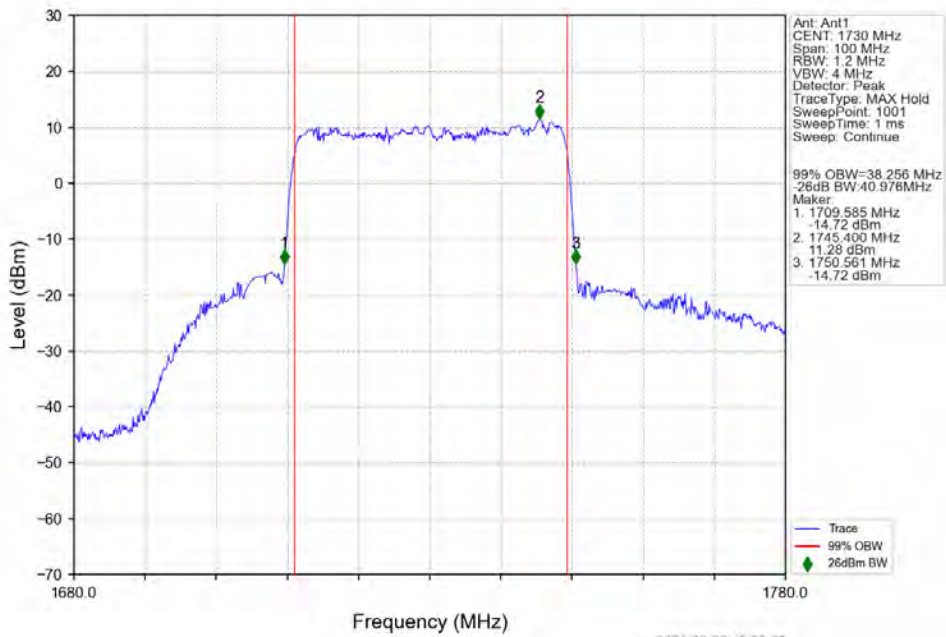
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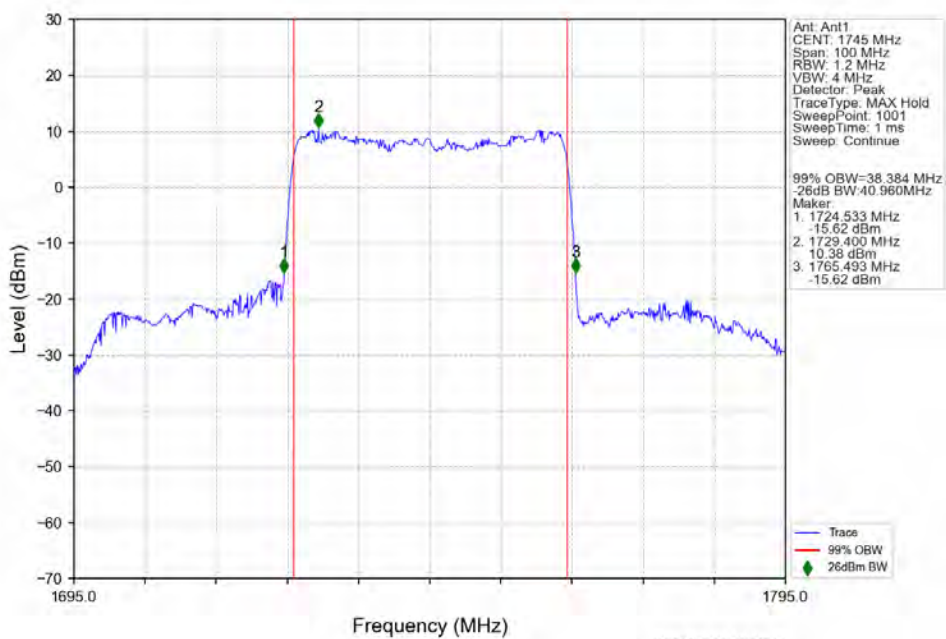
n66 30kHz SISO NTV 40MHz CP-OFDM 64 QAM 1760MHz Outer Full



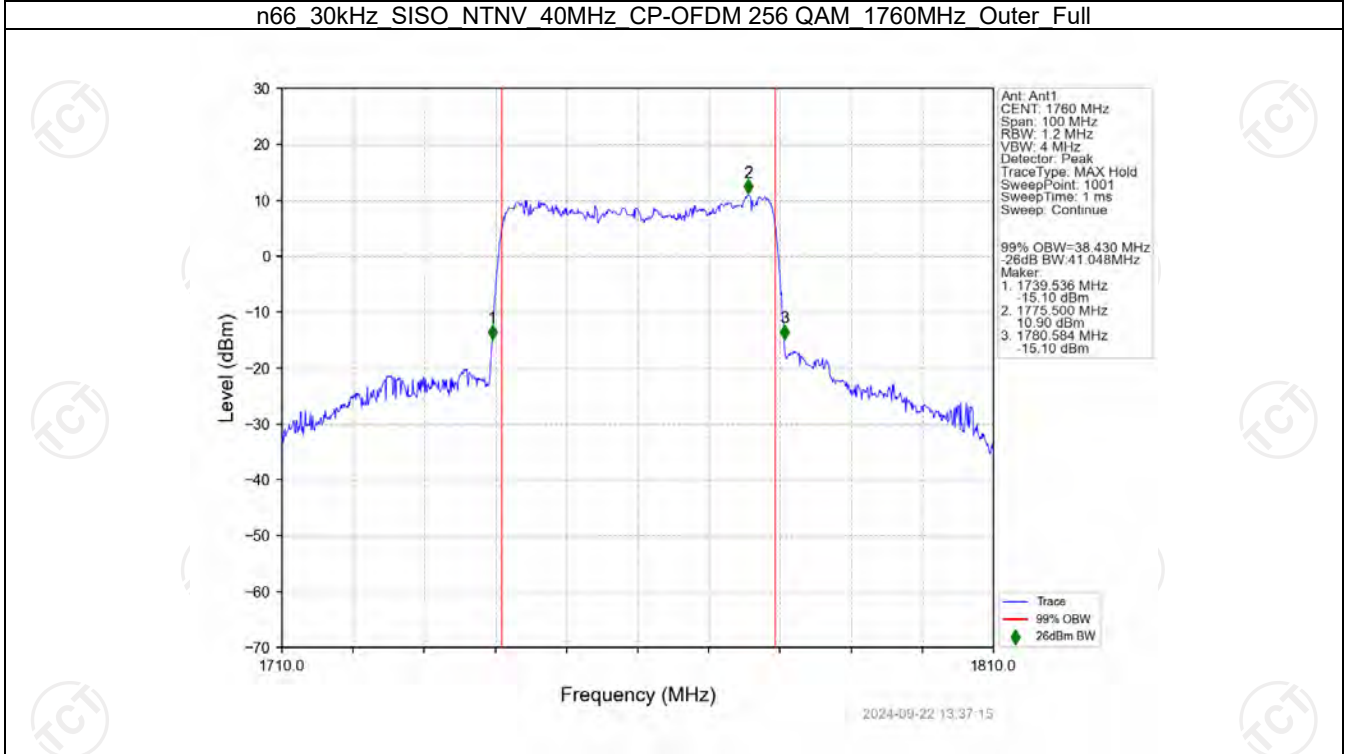
n66 30kHz SISO NTV 40MHz CP-OFDM 256 QAM 1730MHz Outer Full



n66 30kHz SISO NTV 40MHz CP-OFDM 256 QAM 1745MHz Outer Full



n66 30kHz SISO NTV 40MHz CP-OFDM 256 QAM 1760MHz Outer Full



5. Peak-Average Ratio

5.1 Test Result

5.1.1 15k_SISO_5MHz_NTNV

5G NR n66 SCS=15kHz SISO 5MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	1712.5	Outer Full	3.68	/	/	<=13	Pass
	1745	Outer Full	4.51	/	/	<=13	Pass
	1777.5	Outer Full	3.20	/	/	<=13	Pass
DFT-s-OFDM QPSK	1712.5	Outer Full	4.58	/	/	<=13	Pass
	1745	Outer Full	5.59	/	/	<=13	Pass
	1777.5	Outer Full	3.87	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	1712.5	Outer Full	5.23	/	/	<=13	Pass
	1745	Outer Full	6.21	/	/	<=13	Pass
	1777.5	Outer Full	4.50	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	1712.5	Outer Full	5.50	/	/	<=13	Pass
	1745	Outer Full	6.45	/	/	<=13	Pass
	1777.5	Outer Full	4.80	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	1712.5	Outer Full	6.21	/	/	<=13	Pass
	1745	Outer Full	6.98	/	/	<=13	Pass
	1777.5	Outer Full	5.51	/	/	<=13	Pass
CP-OFDM QPSK	1712.5	Outer Full	6.49	/	/	<=13	Pass
	1745	Outer Full	7.63	/	/	<=13	Pass
	1777.5	Outer Full	5.52	/	/	<=13	Pass
CP-OFDM 16 QAM	1712.5	Outer Full	6.75	/	/	<=13	Pass
	1745	Outer Full	7.81	/	/	<=13	Pass
	1777.5	Outer Full	5.79	/	/	<=13	Pass
CP-OFDM 64 QAM	1712.5	Outer Full	7.09	/	/	<=13	Pass
	1745	Outer Full	8.15	/	/	<=13	Pass
	1777.5	Outer Full	6.10	/	/	<=13	Pass
CP-OFDM 256 QAM	1712.5	Outer Full	8.02	/	/	<=13	Pass
	1745	Outer Full	8.70	/	/	<=13	Pass
	1777.5	Outer Full	7.14	/	/	<=13	Pass

5.1.2 15k_SISO_10MHz_NTNV

5G NR n66 SCS=15kHz SISO 10MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	1715	Outer Full	3.67	/	/	<=13	Pass
	1745	Outer Full	4.42	/	/	<=13	Pass
	1775	Outer Full	3.38	/	/	<=13	Pass
DFT-s-OFDM QPSK	1715	Outer Full	4.41	/	/	<=13	Pass
	1745	Outer Full	5.33	/	/	<=13	Pass
	1775	Outer Full	4.05	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	1715	Outer Full	5.25	/	/	<=13	Pass
	1745	Outer Full	6.18	/	/	<=13	Pass
	1775	Outer Full	4.76	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	1715	Outer Full	5.42	/	/	<=13	Pass
	1745	Outer Full	6.38	/	/	<=13	Pass
	1775	Outer Full	5.02	/	/	<=13	Pass