

			50	NV	19.40	0.0052	>=-2.5 & <=2.5	Pass
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2.1.18 30k\_SISO\_90MHz

5G NR n78a SCS=30kHz SISO 90MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	3750.015	Outer_Full	20	LV	11.40	0.0030	>=-2.5 & <=2.5	Pass
				HV	19.40	0.0052	>=-2.5 & <=2.5	Pass
			-30	NV	30.80	0.0082	>=-2.5 & <=2.5	Pass
			-20	NV	14.00	0.0037	>=-2.5 & <=2.5	Pass
			-10	NV	-4.20	-0.0011	>=-2.5 & <=2.5	Pass
			0	NV	10.70	0.0029	>=-2.5 & <=2.5	Pass
			10	NV	9.80	0.0026	>=-2.5 & <=2.5	Pass
			20	NV	20.30	0.0054	>=-2.5 & <=2.5	Pass
			30	NV	20.40	0.0054	>=-2.5 & <=2.5	Pass
			40	NV	14.80	0.0039	>=-2.5 & <=2.5	Pass
50	NV	15.30	0.0041	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	3750.015	Outer_Full	20	LV	16.80	0.0045	>=-2.5 & <=2.5	Pass
				HV	9.30	0.0025	>=-2.5 & <=2.5	Pass
			-30	NV	26.80	0.0071	>=-2.5 & <=2.5	Pass
			-20	NV	16.70	0.0045	>=-2.5 & <=2.5	Pass
			-10	NV	-6.40	-0.0017	>=-2.5 & <=2.5	Pass
			0	NV	-13.00	-0.0035	>=-2.5 & <=2.5	Pass
			10	NV	8.40	0.0022	>=-2.5 & <=2.5	Pass
			20	NV	27.40	0.0073	>=-2.5 & <=2.5	Pass
			30	NV	5.40	0.0014	>=-2.5 & <=2.5	Pass
			40	NV	17.90	0.0048	>=-2.5 & <=2.5	Pass
50	NV	-12.90	-0.0034	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	3750.015	Outer_Full	20	LV	9.60	0.0026	>=-2.5 & <=2.5	Pass
				HV	10.60	0.0028	>=-2.5 & <=2.5	Pass
			-30	NV	12.00	0.0032	>=-2.5 & <=2.5	Pass
			-20	NV	25.50	0.0068	>=-2.5 & <=2.5	Pass
			-10	NV	-7.70	-0.0021	>=-2.5 & <=2.5	Pass
			0	NV	24.60	0.0066	>=-2.5 & <=2.5	Pass
			10	NV	-6.20	-0.0017	>=-2.5 & <=2.5	Pass
			20	NV	13.30	0.0035	>=-2.5 & <=2.5	Pass
			30	NV	14.40	0.0038	>=-2.5 & <=2.5	Pass
			40	NV	16.10	0.0043	>=-2.5 & <=2.5	Pass
50	NV	20.50	0.0055	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	3750.015	Outer_Full	20	LV	22.20	0.0059	>=-2.5 & <=2.5	Pass
				HV	12.90	0.0034	>=-2.5 & <=2.5	Pass
			-30	NV	18.20	0.0049	>=-2.5 & <=2.5	Pass
			-20	NV	11.50	0.0031	>=-2.5 & <=2.5	Pass
			-10	NV	44.30	0.0118	>=-2.5 & <=2.5	Pass
			0	NV	12.50	0.0033	>=-2.5 & <=2.5	Pass
			10	NV	-4.60	-0.0012	>=-2.5 & <=2.5	Pass
			20	NV	22.30	0.0059	>=-2.5 & <=2.5	Pass
			30	NV	34.00	0.0091	>=-2.5 & <=2.5	Pass
			40	NV	28.80	0.0077	>=-2.5 & <=2.5	Pass
50	NV	8.70	0.0023	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 256 QAM	3750.015	Outer_Full	20	LV	10.90	0.0029	>=-2.5 & <=2.5	Pass
				HV	20.80	0.0055	>=-2.5 & <=2.5	Pass
			-30	NV	22.50	0.0060	>=-2.5 & <=2.5	Pass
			-20	NV	10.20	0.0027	>=-2.5 & <=2.5	Pass
			-10	NV	22.60	0.0060	>=-2.5 & <=2.5	Pass
			0	NV	9.10	0.0024	>=-2.5 & <=2.5	Pass

			10	NV	21.00	0.0056	>=-2.5 & <=2.5	Pass
			20	NV	30.00	0.0080	>=-2.5 & <=2.5	Pass
			30	NV	42.20	0.0113	>=-2.5 & <=2.5	Pass
			40	NV	16.10	0.0043	>=-2.5 & <=2.5	Pass
			50	NV	26.20	0.0070	>=-2.5 & <=2.5	Pass
CP-OFDM QPSK	3750.015	Outer_Full	20	LV	15.20	0.0041	>=-2.5 & <=2.5	Pass
				HV	20.50	0.0055	>=-2.5 & <=2.5	Pass
			-30	NV	17.40	0.0046	>=-2.5 & <=2.5	Pass
			-20	NV	19.80	0.0053	>=-2.5 & <=2.5	Pass
			-10	NV	33.70	0.0090	>=-2.5 & <=2.5	Pass
			0	NV	32.30	0.0086	>=-2.5 & <=2.5	Pass
			10	NV	42.20	0.0113	>=-2.5 & <=2.5	Pass
			20	NV	7.50	0.0020	>=-2.5 & <=2.5	Pass
			30	NV	56.00	0.0149	>=-2.5 & <=2.5	Pass
			40	NV	22.40	0.0060	>=-2.5 & <=2.5	Pass
50	NV	30.50	0.0081	>=-2.5 & <=2.5	Pass			
CP-OFDM 16 QAM	3750.015	Outer_Full	20	LV	19.20	0.0051	>=-2.5 & <=2.5	Pass
				HV	30.20	0.0081	>=-2.5 & <=2.5	Pass
			-30	NV	-3.10	-0.0008	>=-2.5 & <=2.5	Pass
			-20	NV	33.30	0.0089	>=-2.5 & <=2.5	Pass
			-10	NV	8.00	0.0021	>=-2.5 & <=2.5	Pass
			0	NV	27.70	0.0074	>=-2.5 & <=2.5	Pass
			10	NV	2.70	0.0007	>=-2.5 & <=2.5	Pass
			20	NV	8.60	0.0023	>=-2.5 & <=2.5	Pass
			30	NV	-10.40	-0.0028	>=-2.5 & <=2.5	Pass
			40	NV	22.30	0.0059	>=-2.5 & <=2.5	Pass
50	NV	37.90	0.0101	>=-2.5 & <=2.5	Pass			
CP-OFDM 64 QAM	3750.015	Outer_Full	20	LV	4.90	0.0013	>=-2.5 & <=2.5	Pass
				HV	6.60	0.0018	>=-2.5 & <=2.5	Pass
			-30	NV	6.50	0.0017	>=-2.5 & <=2.5	Pass
			-20	NV	29.90	0.0080	>=-2.5 & <=2.5	Pass
			-10	NV	16.40	0.0044	>=-2.5 & <=2.5	Pass
			0	NV	19.20	0.0051	>=-2.5 & <=2.5	Pass
			10	NV	41.10	0.0110	>=-2.5 & <=2.5	Pass
			20	NV	18.60	0.0050	>=-2.5 & <=2.5	Pass
			30	NV	16.10	0.0043	>=-2.5 & <=2.5	Pass
			40	NV	26.50	0.0071	>=-2.5 & <=2.5	Pass
50	NV	-7.70	-0.0021	>=-2.5 & <=2.5	Pass			
CP-OFDM 256 QAM	3750.015	Outer_Full	20	LV	14.40	0.0038	>=-2.5 & <=2.5	Pass
				HV	13.60	0.0036	>=-2.5 & <=2.5	Pass
			-30	NV	23.80	0.0063	>=-2.5 & <=2.5	Pass
			-20	NV	32.90	0.0088	>=-2.5 & <=2.5	Pass
			-10	NV	28.10	0.0075	>=-2.5 & <=2.5	Pass
			0	NV	25.50	0.0068	>=-2.5 & <=2.5	Pass
			10	NV	48.70	0.0130	>=-2.5 & <=2.5	Pass
			20	NV	21.20	0.0057	>=-2.5 & <=2.5	Pass
			30	NV	24.30	0.0065	>=-2.5 & <=2.5	Pass
			40	NV	0.50	0.0001	>=-2.5 & <=2.5	Pass
50	NV	-2.30	-0.0006	>=-2.5 & <=2.5	Pass			

### 2.1.19 30k\_SISO\_100MHz

5G NR n78a SCS=30kHz SISO 100MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	3750.015	Outer_Full	20	LV	10.40	0.0028	>=-2.5 & <=2.5	Pass
				HV	17.80	0.0047	>=-2.5 & <=2.5	Pass

			-30	NV	17.00	0.0045	$>=-2.5 \text{ \& } \leq=2.5$	Pass
			-20	NV	11.10	0.0030	$>=-2.5 \text{ \& } \leq=2.5$	Pass
			-10	NV	29.20	0.0078	$>=-2.5 \text{ \& } \leq=2.5$	Pass
			0	NV	11.60	0.0031	$>=-2.5 \text{ \& } \leq=2.5$	Pass
			10	NV	27.00	0.0072	$>=-2.5 \text{ \& } \leq=2.5$	Pass
			20	NV	4.20	0.0011	$>=-2.5 \text{ \& } \leq=2.5$	Pass
			30	NV	14.40	0.0038	$>=-2.5 \text{ \& } \leq=2.5$	Pass
			40	NV	20.00	0.0053	$>=-2.5 \text{ \& } \leq=2.5$	Pass
			50	NV	7.80	0.0021	$>=-2.5 \text{ \& } \leq=2.5$	Pass
DFT-s-OFDM QPSK	3750.015	Outer_Full	20	LV	20.40	0.0054	$>=-2.5 \text{ \& } \leq=2.5$	Pass
				HV	27.10	0.0072	$>=-2.5 \text{ \& } \leq=2.5$	Pass
			-30	NV	21.10	0.0056	$>=-2.5 \text{ \& } \leq=2.5$	Pass
			-20	NV	-18.50	-0.0049	$>=-2.5 \text{ \& } \leq=2.5$	Pass
			-10	NV	17.60	0.0047	$>=-2.5 \text{ \& } \leq=2.5$	Pass
			0	NV	12.50	0.0033	$>=-2.5 \text{ \& } \leq=2.5$	Pass
			10	NV	17.20	0.0046	$>=-2.5 \text{ \& } \leq=2.5$	Pass
			20	NV	31.70	0.0085	$>=-2.5 \text{ \& } \leq=2.5$	Pass
			30	NV	12.80	0.0034	$>=-2.5 \text{ \& } \leq=2.5$	Pass
40	NV	16.60	0.0044	$>=-2.5 \text{ \& } \leq=2.5$	Pass			
50	NV	19.90	0.0053	$>=-2.5 \text{ \& } \leq=2.5$	Pass			
DFT-s-OFDM 16 QAM	3750.015	Outer_Full	20	LV	28.10	0.0075	$>=-2.5 \text{ \& } \leq=2.5$	Pass
				HV	17.00	0.0045	$>=-2.5 \text{ \& } \leq=2.5$	Pass
			-30	NV	24.60	0.0066	$>=-2.5 \text{ \& } \leq=2.5$	Pass
			-20	NV	12.80	0.0034	$>=-2.5 \text{ \& } \leq=2.5$	Pass
			-10	NV	8.50	0.0023	$>=-2.5 \text{ \& } \leq=2.5$	Pass
			0	NV	10.80	0.0029	$>=-2.5 \text{ \& } \leq=2.5$	Pass
			10	NV	31.20	0.0083	$>=-2.5 \text{ \& } \leq=2.5$	Pass
			20	NV	12.20	0.0033	$>=-2.5 \text{ \& } \leq=2.5$	Pass
			30	NV	16.90	0.0045	$>=-2.5 \text{ \& } \leq=2.5$	Pass
40	NV	5.20	0.0014	$>=-2.5 \text{ \& } \leq=2.5$	Pass			
50	NV	-11.70	-0.0031	$>=-2.5 \text{ \& } \leq=2.5$	Pass			
DFT-s-OFDM 64 QAM	3750.015	Outer_Full	20	LV	45.30	0.0121	$>=-2.5 \text{ \& } \leq=2.5$	Pass
				HV	28.60	0.0076	$>=-2.5 \text{ \& } \leq=2.5$	Pass
			-30	NV	25.40	0.0068	$>=-2.5 \text{ \& } \leq=2.5$	Pass
			-20	NV	20.70	0.0055	$>=-2.5 \text{ \& } \leq=2.5$	Pass
			-10	NV	12.90	0.0034	$>=-2.5 \text{ \& } \leq=2.5$	Pass
			0	NV	20.80	0.0055	$>=-2.5 \text{ \& } \leq=2.5$	Pass
			10	NV	-15.00	-0.0040	$>=-2.5 \text{ \& } \leq=2.5$	Pass
			20	NV	19.30	0.0051	$>=-2.5 \text{ \& } \leq=2.5$	Pass
			30	NV	-14.90	-0.0040	$>=-2.5 \text{ \& } \leq=2.5$	Pass
40	NV	10.70	0.0029	$>=-2.5 \text{ \& } \leq=2.5$	Pass			
50	NV	26.30	0.0070	$>=-2.5 \text{ \& } \leq=2.5$	Pass			
DFT-s-OFDM 256 QAM	3750.015	Outer_Full	20	LV	14.40	0.0038	$>=-2.5 \text{ \& } \leq=2.5$	Pass
				HV	32.50	0.0087	$>=-2.5 \text{ \& } \leq=2.5$	Pass
			-30	NV	30.00	0.0080	$>=-2.5 \text{ \& } \leq=2.5$	Pass
			-20	NV	-3.90	-0.0010	$>=-2.5 \text{ \& } \leq=2.5$	Pass
			-10	NV	37.50	0.0100	$>=-2.5 \text{ \& } \leq=2.5$	Pass
			0	NV	29.00	0.0077	$>=-2.5 \text{ \& } \leq=2.5$	Pass
			10	NV	28.40	0.0076	$>=-2.5 \text{ \& } \leq=2.5$	Pass
			20	NV	7.80	0.0021	$>=-2.5 \text{ \& } \leq=2.5$	Pass
			30	NV	16.30	0.0043	$>=-2.5 \text{ \& } \leq=2.5$	Pass
40	NV	26.20	0.0070	$>=-2.5 \text{ \& } \leq=2.5$	Pass			
50	NV	20.80	0.0055	$>=-2.5 \text{ \& } \leq=2.5$	Pass			
CP-OFDM QPSK	3750.015	Outer_Full	20	LV	-16.90	-0.0045	$>=-2.5 \text{ \& } \leq=2.5$	Pass
				HV	11.40	0.0030	$>=-2.5 \text{ \& } \leq=2.5$	Pass
			-30	NV	1.30	0.0003	$>=-2.5 \text{ \& } \leq=2.5$	Pass
			-20	NV	16.70	0.0045	$>=-2.5 \text{ \& } \leq=2.5$	Pass
			-10	NV	25.60	0.0068	$>=-2.5 \text{ \& } \leq=2.5$	Pass
0	NV	34.50	0.0092	$>=-2.5 \text{ \& } \leq=2.5$	Pass			

			10	NV	33.30	0.0089	>=-2.5 & <=2.5	Pass
			20	NV	13.80	0.0037	>=-2.5 & <=2.5	Pass
			30	NV	37.60	0.0100	>=-2.5 & <=2.5	Pass
			40	NV	28.10	0.0075	>=-2.5 & <=2.5	Pass
			50	NV	26.20	0.0070	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	3750.015	Outer_Full	20	LV	12.60	0.0034	>=-2.5 & <=2.5	Pass
				HV	5.40	0.0014	>=-2.5 & <=2.5	Pass
			-30	NV	10.30	0.0027	>=-2.5 & <=2.5	Pass
			-20	NV	25.90	0.0069	>=-2.5 & <=2.5	Pass
			-10	NV	10.90	0.0029	>=-2.5 & <=2.5	Pass
			0	NV	15.90	0.0042	>=-2.5 & <=2.5	Pass
			10	NV	5.20	0.0014	>=-2.5 & <=2.5	Pass
			20	NV	-18.60	-0.0050	>=-2.5 & <=2.5	Pass
			30	NV	18.80	0.0050	>=-2.5 & <=2.5	Pass
			40	NV	36.80	0.0098	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	3750.015	Outer_Full	20	LV	-6.50	-0.0017	>=-2.5 & <=2.5	Pass
				HV	13.30	0.0035	>=-2.5 & <=2.5	Pass
			-30	NV	20.40	0.0054	>=-2.5 & <=2.5	Pass
			-20	NV	33.00	0.0088	>=-2.5 & <=2.5	Pass
			-10	NV	21.50	0.0057	>=-2.5 & <=2.5	Pass
			0	NV	7.60	0.0020	>=-2.5 & <=2.5	Pass
			10	NV	9.40	0.0025	>=-2.5 & <=2.5	Pass
			20	NV	37.80	0.0101	>=-2.5 & <=2.5	Pass
			30	NV	-7.60	-0.0020	>=-2.5 & <=2.5	Pass
			40	NV	15.50	0.0041	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	3750.015	Outer_Full	20	LV	20.40	0.0054	>=-2.5 & <=2.5	Pass
				HV	7.40	0.0020	>=-2.5 & <=2.5	Pass
			-30	NV	22.90	0.0061	>=-2.5 & <=2.5	Pass
			-20	NV	26.90	0.0072	>=-2.5 & <=2.5	Pass
			-10	NV	46.50	0.0124	>=-2.5 & <=2.5	Pass
			0	NV	-3.50	-0.0009	>=-2.5 & <=2.5	Pass
			10	NV	16.50	0.0044	>=-2.5 & <=2.5	Pass
			20	NV	22.30	0.0059	>=-2.5 & <=2.5	Pass
			30	NV	27.10	0.0072	>=-2.5 & <=2.5	Pass
			40	NV	24.50	0.0065	>=-2.5 & <=2.5	Pass
			50	NV	25.90	0.0069	>=-2.5 & <=2.5	Pass

### 3. Modulation Characteristics

#### 3.1 Test Result

##### 3.1.1 15k\_SISO\_50MHz\_NTNV

5G NR n78a SCS=15kHz SISO 50MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Modulation Characteristics				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3750	Outer_Full	Refer To Test Graph				Pass
DFT-s-OFDM QPSK	3750	Outer_Full	Refer To Test Graph				Pass
DFT-s-OFDM 16 QAM	3750	Outer_Full	Refer To Test Graph				Pass
DFT-s-OFDM 64 QAM	3750	Outer_Full	Refer To Test Graph				Pass
DFT-s-OFDM 256 QAM	3750	Outer_Full	Refer To Test Graph				Pass
CP-OFDM QPSK	3750	Outer_Full	Refer To Test Graph				Pass
CP-OFDM 16 QAM	3750	Outer_Full	Refer To Test Graph				Pass
CP-OFDM 64 QAM	3750	Outer_Full	Refer To Test Graph				Pass

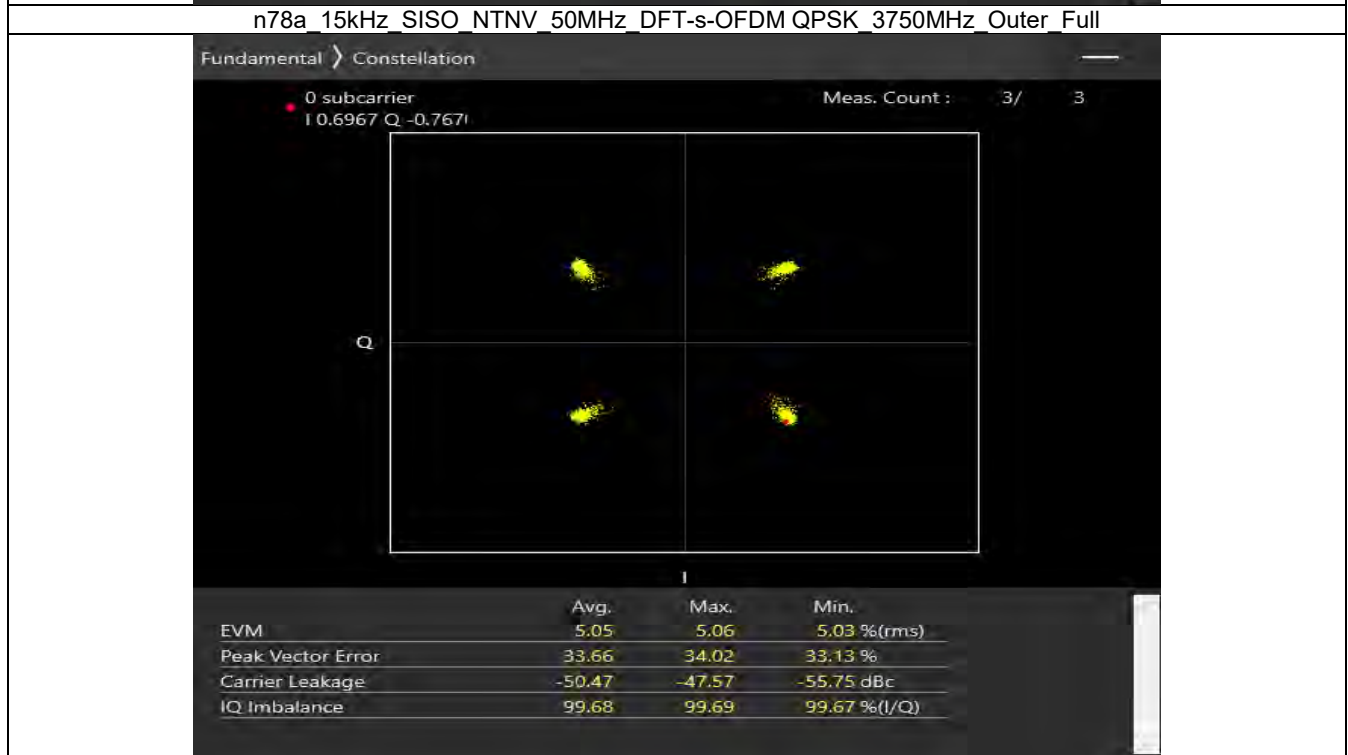
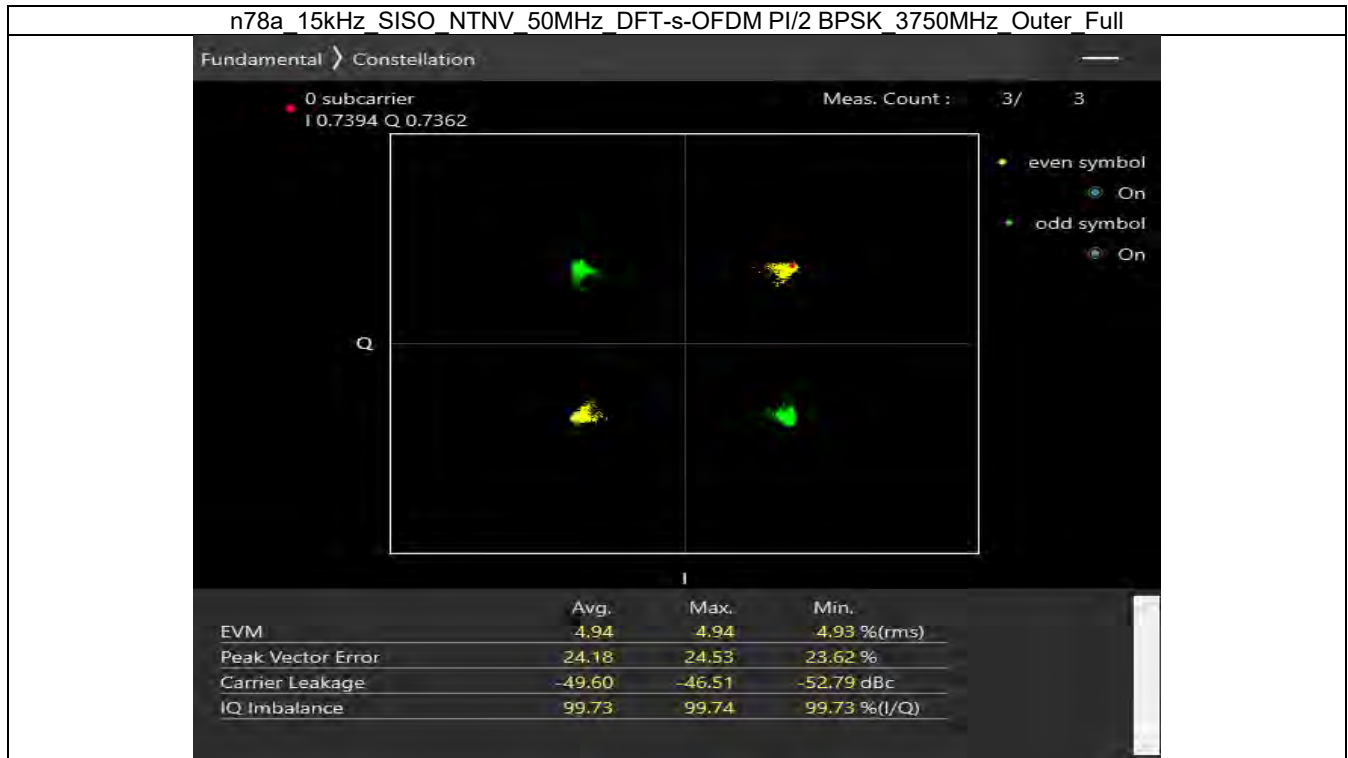
CP-OFDM 256 QAM	3750	Outer_Full	Refer To Test Graph	Pass
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### 3.1.2 30k\_SISO\_100MHz\_NTNV

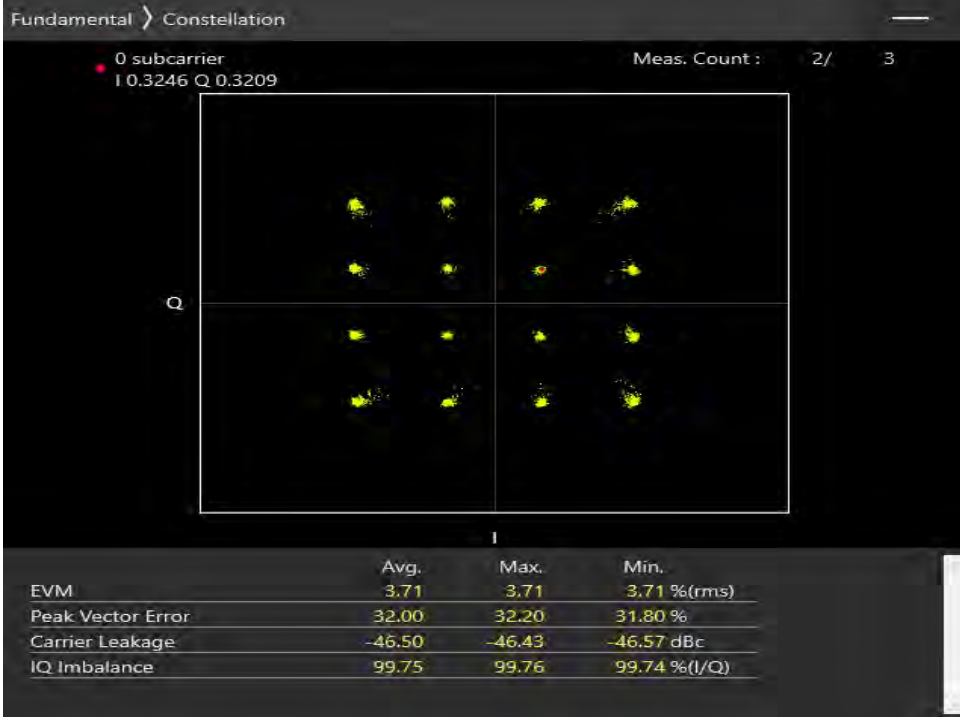
5G NR n78a SCS=30kHz SISO 100MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Modulation Characteristics				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3750.015	Outer_Full	Refer To Test Graph				Pass
DFT-s-OFDM QPSK	3750.015	Outer_Full	Refer To Test Graph				Pass
DFT-s-OFDM 16 QAM	3750.015	Outer_Full	Refer To Test Graph				Pass
DFT-s-OFDM 64 QAM	3750.015	Outer_Full	Refer To Test Graph				Pass
DFT-s-OFDM 256 QAM	3750.015	Outer_Full	Refer To Test Graph				Pass
CP-OFDM QPSK	3750.015	Outer_Full	Refer To Test Graph				Pass
CP-OFDM 16 QAM	3750.015	Outer_Full	Refer To Test Graph				Pass
CP-OFDM 64 QAM	3750.015	Outer_Full	Refer To Test Graph				Pass
CP-OFDM 256 QAM	3750.015	Outer_Full	Refer To Test Graph				Pass

### 3.2 Test Graph

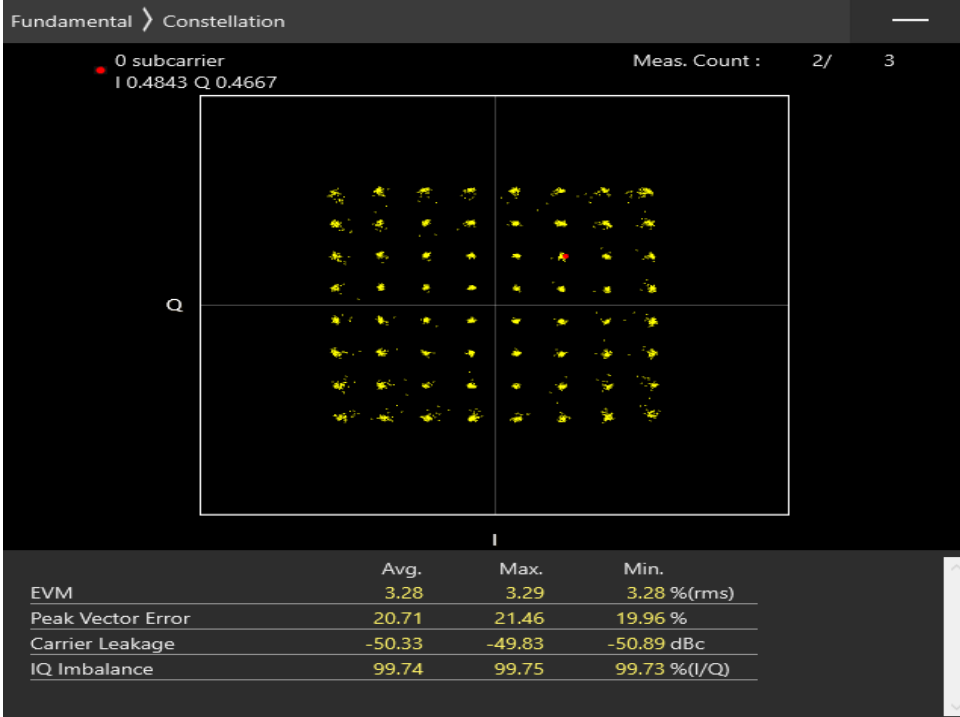
#### 3.2.1 15k\_SISO\_50MHz\_NTNV



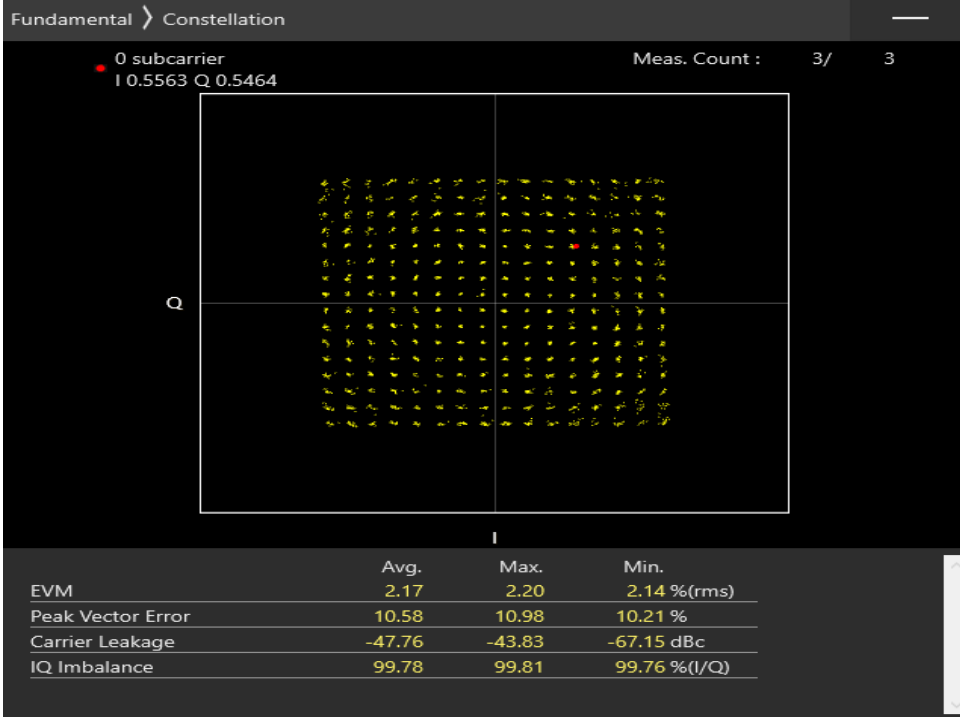
n78a 15kHz SISO NTN 50MHz DFT-s-OFDM 16 QAM 3750MHz Outer Full



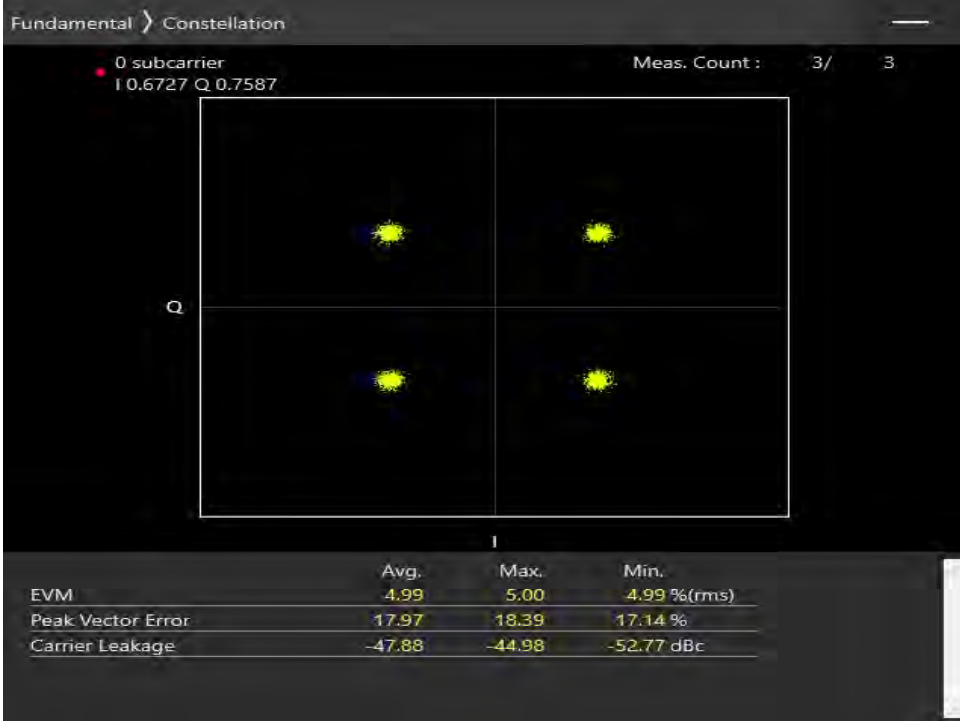
n78a 15kHz SISO NTN 50MHz DFT-s-OFDM 64 QAM 3750MHz Outer Full



n78a 15kHz SISO NTN 50MHz DFT-s-OFDM 256 QAM 3750MHz Outer Full



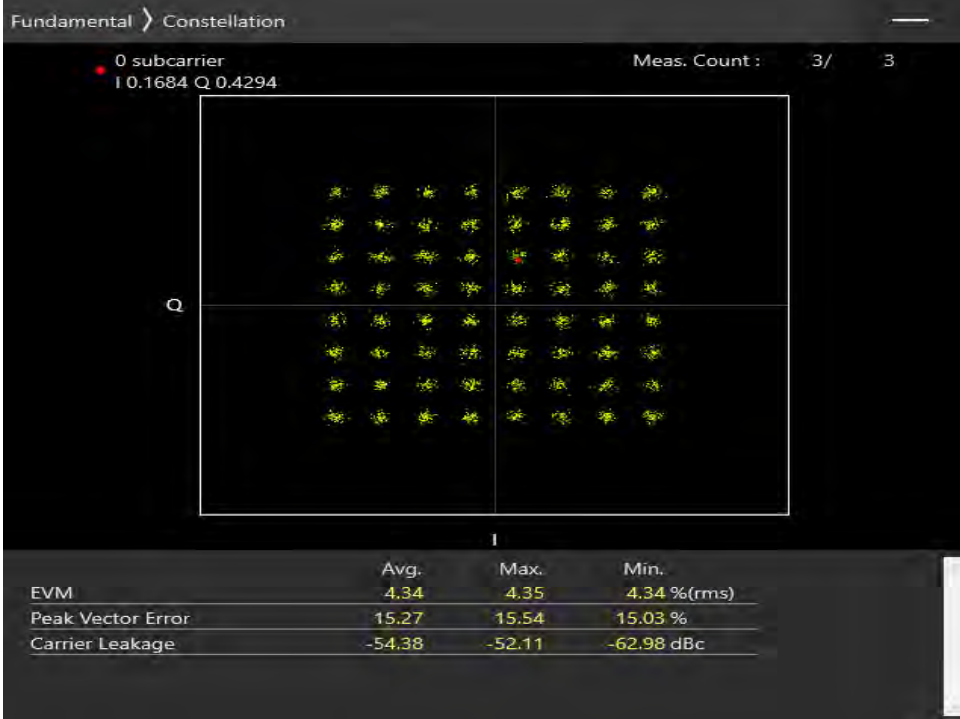
n78a 15kHz SISO NTN 50MHz CP-OFDM QPSK 3750MHz Outer Full





n78a 15kHz SISO NTN 50MHz CP-OFDM 16 QAM 3750MHz Outer Full

n78a 15kHz SISO NTN 50MHz CP-OFDM 64 QAM 3750MHz Outer Full



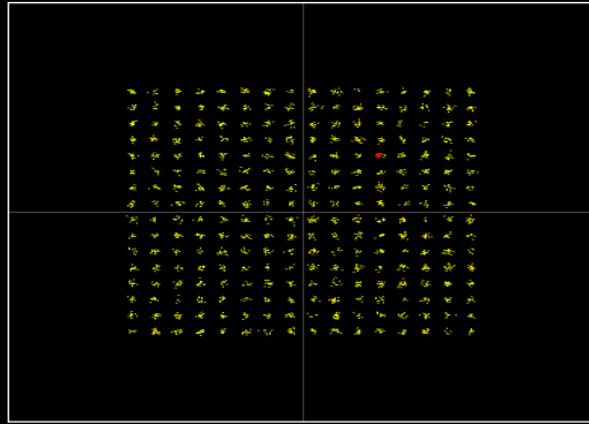
n78a 15kHz SISO NTN 50MHz CP-OFDM 256 QAM 3750MHz Outer Full

Fundamental > Constellation

0 subcarrier  
I 0.5235 Q 0.5378

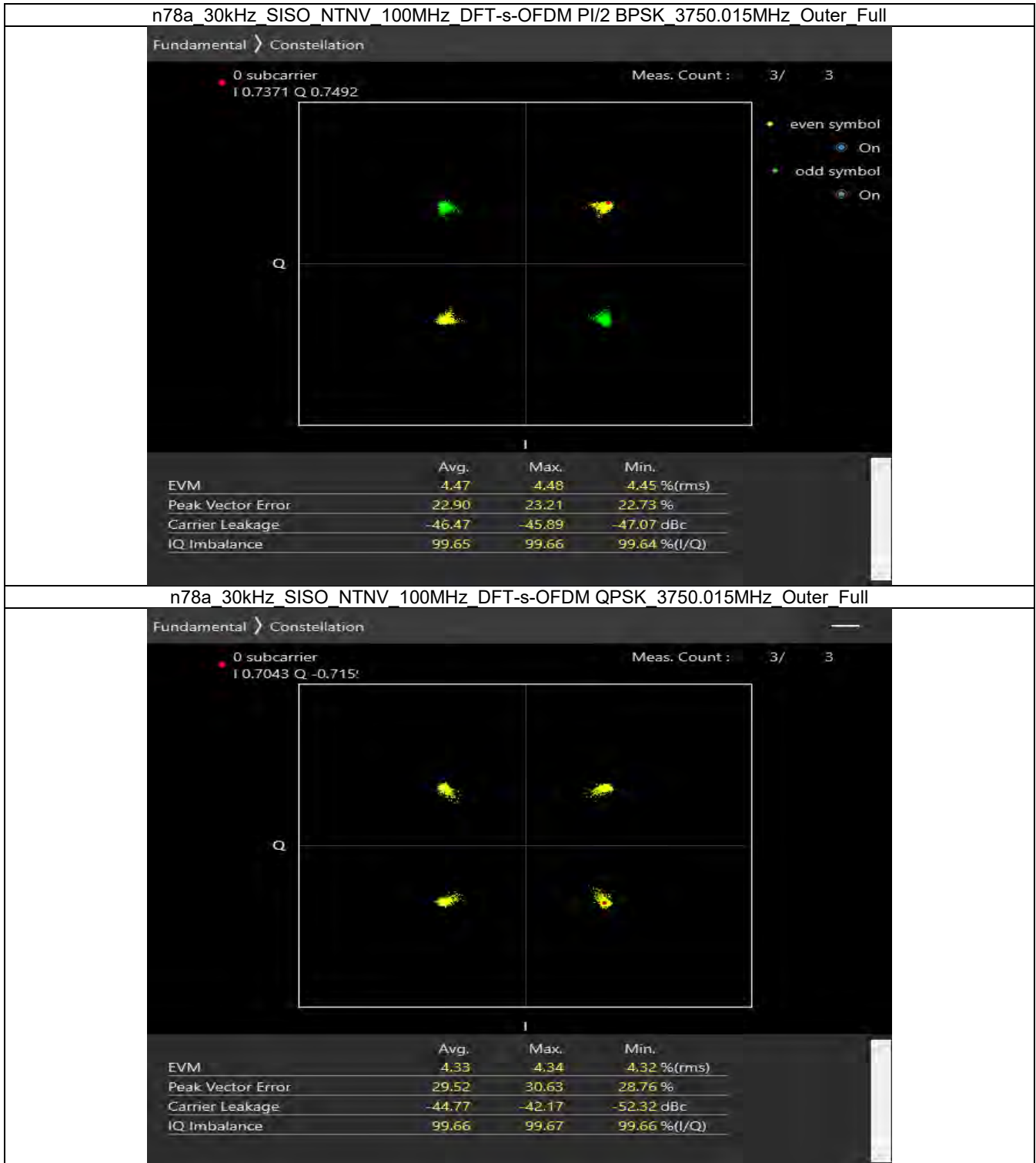
Meas. Count : 3/ 3

Q



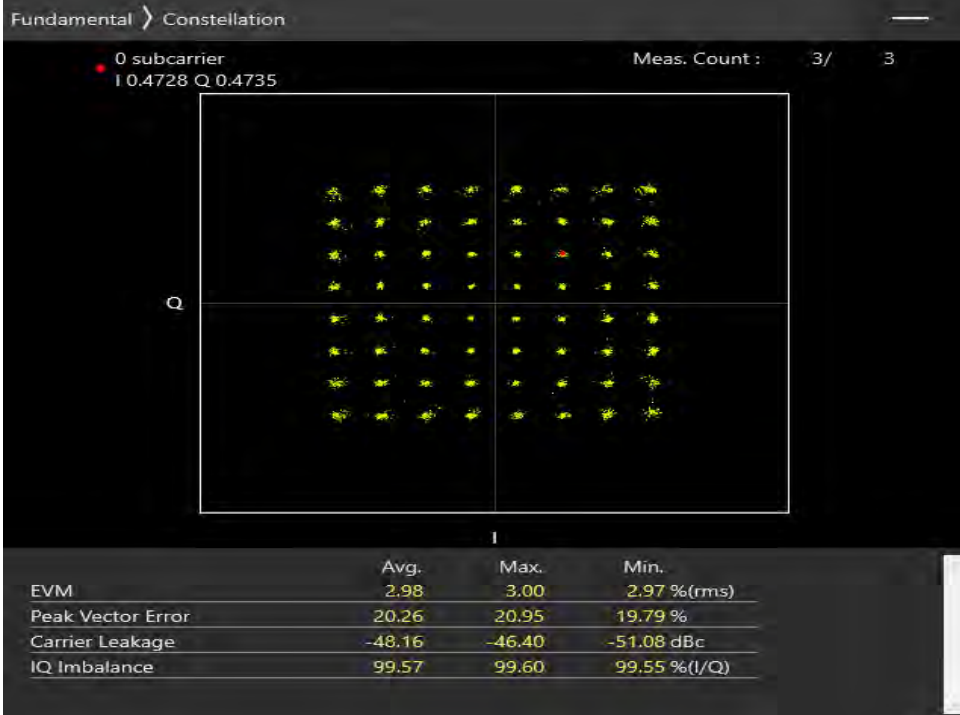
	Avg.	Max.	Min.
EVM	2.26	2.27	2.24 %(rms)
Peak Vector Error	8.04	8.36	7.79 %
Carrier Leakage	-52.00	-49.71	-54.12 dBc

3.2.2 30k\_SISO\_100MHz\_NTNV

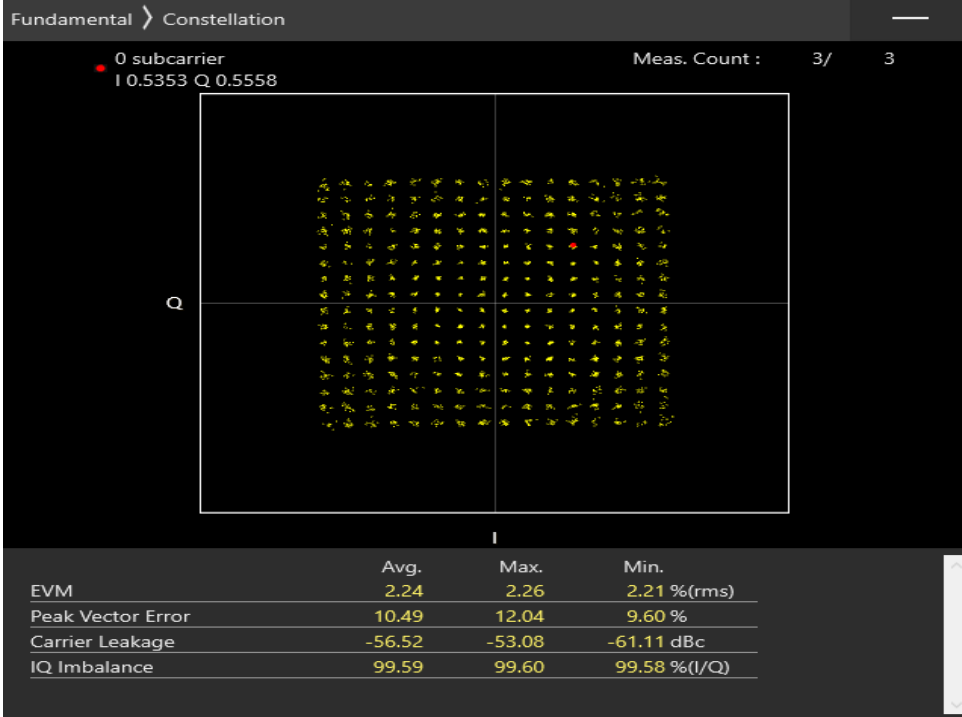


n78a 30kHz SISO NTV 100MHz DFT-s-OFDM 16 QAM 3750.015MHz Outer Full

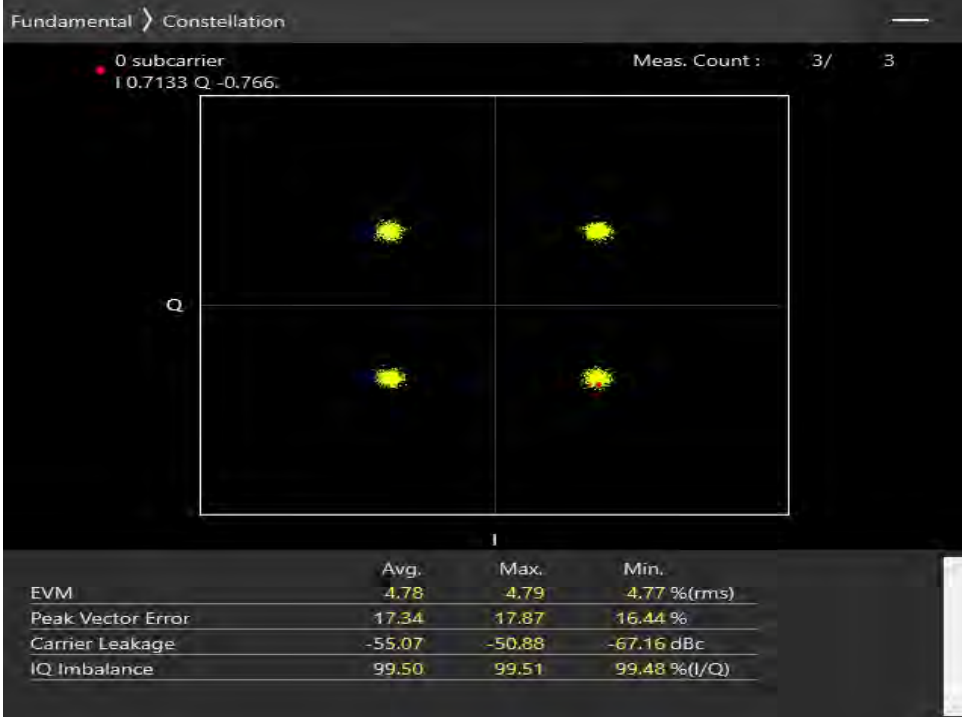
n78a 30kHz SISO NTV 100MHz DFT-s-OFDM 64 QAM 3750.015MHz Outer Full



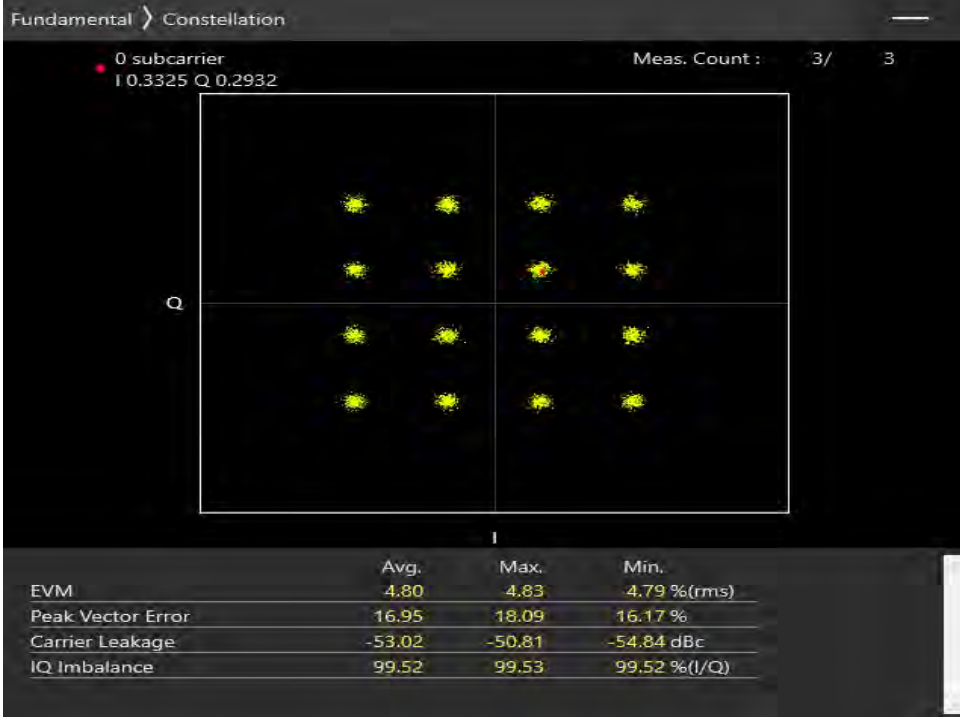
n78a 30kHz SISO NTN 100MHz DFT-s-OFDM 256 QAM 3750.015MHz Outer Full



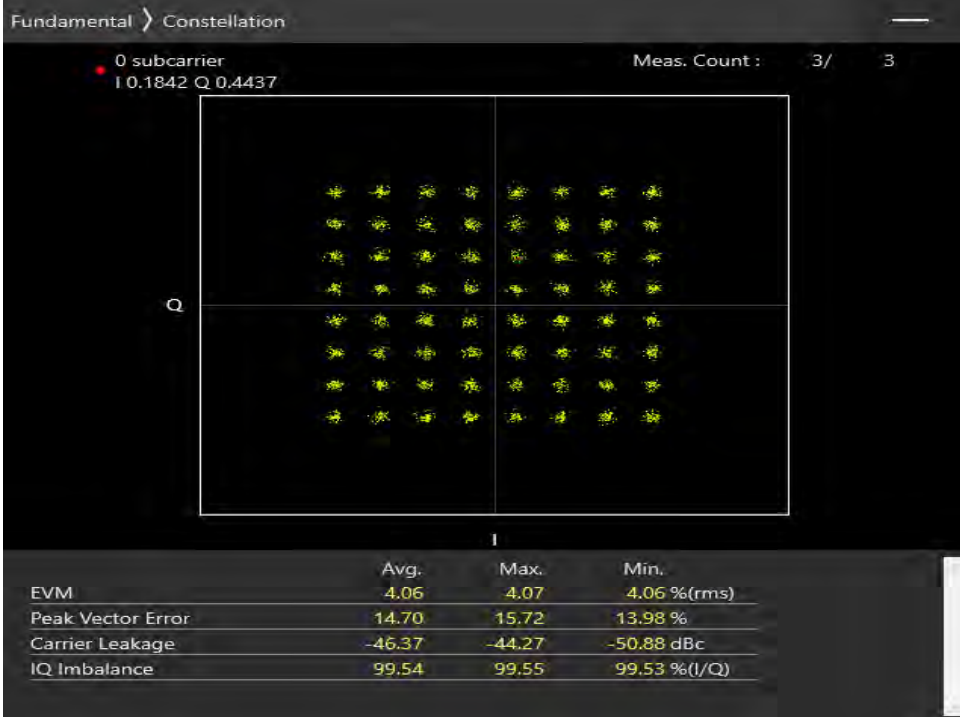
n78a 30kHz SISO NTN 100MHz CP-OFDM QPSK 3750.015MHz Outer Full



n78a 30kHz SISO NTN 100MHz CP-OFDM 16 QAM 3750.015MHz Outer Full



n78a 30kHz SISO NTN 100MHz CP-OFDM 64 QAM 3750.015MHz Outer Full



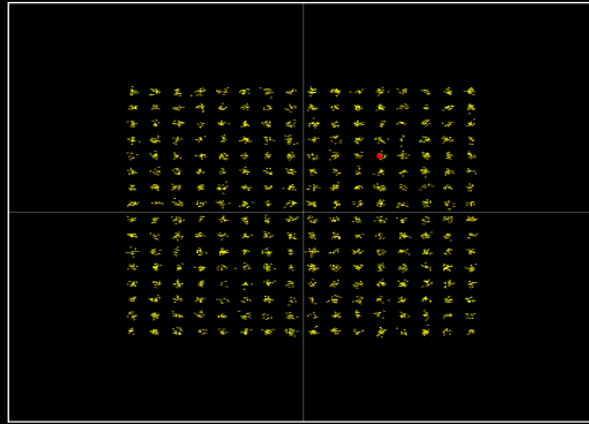
n78a 30kHz SISO NTN 100MHz CP-OFDM 256 QAM 3750.015MHz Outer Full

Fundamental > Constellation

0 subcarrier  
I 0.5289 Q 0.5263

Meas. Count : 3/ 3

Q



	Avg.	Max.	Min.
EVM	2.42	2.47	2.40 %(rms)
Peak Vector Error	8.18	8.63	7.95 %
Carrier Leakage	-46.41	-44.90	-52.43 dBc
IQ Imbalance	99.57	99.59	99.55 %(I/Q)

## 4. 99% & 26dB Bandwidth

### 4.1 Test Result

#### 4.1.1 15k\_SISO\_10MHz\_NTNV

5G NR n78a SCS=15kHz SISO 10MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3705	Outer_Full	9.26	10.08	/	Pass
	3750	Outer_Full	9.11	9.93	/	Pass
	3795	Outer_Full	9.08	10.11	/	Pass
DFT-s-OFDM QPSK	3705	Outer_Full	9.08	10.36	/	Pass
	3750	Outer_Full	9.10	9.90	/	Pass
	3795	Outer_Full	9.10	10.60	/	Pass
DFT-s-OFDM 16 QAM	3705	Outer_Full	9.07	9.87	/	Pass
	3750	Outer_Full	9.07	9.82	/	Pass
	3795	Outer_Full	9.11	9.79	/	Pass
DFT-s-OFDM 64 QAM	3705	Outer_Full	9.09	9.69	/	Pass
	3750	Outer_Full	9.08	9.82	/	Pass
	3795	Outer_Full	9.11	9.74	/	Pass
DFT-s-OFDM 256 QAM	3705	Outer_Full	9.08	9.73	/	Pass
	3750	Outer_Full	9.08	10.01	/	Pass
	3795	Outer_Full	9.09	10.30	/	Pass
CP-OFDM QPSK	3705	Outer_Full	9.36	10.05	/	Pass
	3750	Outer_Full	9.43	10.34	/	Pass
	3795	Outer_Full	9.44	10.75	/	Pass
CP-OFDM 16 QAM	3705	Outer_Full	9.41	11.83	/	Pass
	3750	Outer_Full	9.49	13.08	/	Pass
	3795	Outer_Full	9.45	10.58	/	Pass
CP-OFDM 64 QAM	3705	Outer_Full	9.42	10.14	/	Pass
	3750	Outer_Full	9.47	10.43	/	Pass
	3795	Outer_Full	9.40	10.39	/	Pass
CP-OFDM 256 QAM	3705	Outer_Full	9.43	10.03	/	Pass
	3750	Outer_Full	9.46	10.45	/	Pass
	3795	Outer_Full	9.35	10.15	/	Pass

#### 4.1.2 15k\_SISO\_15MHz\_NTNV

5G NR n78a SCS=15kHz SISO 15MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3707.505	Outer_Full	13.71	14.60	/	Pass
	3750	Outer_Full	13.63	14.54	/	Pass
	3792.495	Outer_Full	13.64	15.56	/	Pass
DFT-s-OFDM QPSK	3707.505	Outer_Full	13.65	15.05	/	Pass
	3750	Outer_Full	13.75	14.59	/	Pass
	3792.495	Outer_Full	13.68	15.38	/	Pass
DFT-s-OFDM 16 QAM	3707.505	Outer_Full	13.67	14.73	/	Pass
	3750	Outer_Full	13.69	14.74	/	Pass
	3792.495	Outer_Full	13.62	14.76	/	Pass
DFT-s-OFDM 64 QAM	3707.505	Outer_Full	13.67	14.59	/	Pass
	3750	Outer_Full	13.69	14.82	/	Pass
	3792.495	Outer_Full	13.62	14.75	/	Pass



DFT-s-OFDM 256 QAM	3707.505	Outer Full	13.60	14.62	/	Pass
	3750	Outer Full	13.61	14.85	/	Pass
	3792.495	Outer Full	13.65	14.72	/	Pass
CP-OFDM QPSK	3707.505	Outer Full	14.28	15.26	/	Pass
	3750	Outer Full	14.31	20.56	/	Pass
	3792.495	Outer Full	14.35	17.03	/	Pass
CP-OFDM 16 QAM	3707.505	Outer Full	14.33	15.37	/	Pass
	3750	Outer Full	14.37	15.27	/	Pass
	3792.495	Outer Full	14.31	20.05	/	Pass
CP-OFDM 64 QAM	3707.505	Outer Full	14.29	15.38	/	Pass
	3750	Outer Full	14.32	15.68	/	Pass
	3792.495	Outer Full	14.37	15.49	/	Pass
CP-OFDM 256 QAM	3707.505	Outer Full	14.25	15.77	/	Pass
	3750	Outer Full	14.25	15.27	/	Pass
	3792.495	Outer Full	14.34	15.31	/	Pass

#### 4.1.3 15k\_SISO\_20MHz\_NTNV

5G NR n78a SCS=15kHz SISO 20MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3710.01	Outer Full	18.12	19.62	/	Pass
	3750	Outer Full	18.19	20.83	/	Pass
	3789.99	Outer Full	18.19	20.41	/	Pass
DFT-s-OFDM QPSK	3710.01	Outer Full	18.16	19.40	/	Pass
	3750	Outer Full	18.16	19.57	/	Pass
	3789.99	Outer Full	18.25	19.53	/	Pass
DFT-s-OFDM 16 QAM	3710.01	Outer Full	18.14	19.43	/	Pass
	3750	Outer Full	18.17	19.37	/	Pass
	3789.99	Outer Full	18.24	19.50	/	Pass
DFT-s-OFDM 64 QAM	3710.01	Outer Full	18.09	19.50	/	Pass
	3750	Outer Full	18.16	19.36	/	Pass
	3789.99	Outer Full	18.17	19.57	/	Pass
DFT-s-OFDM 256 QAM	3710.01	Outer Full	18.10	19.40	/	Pass
	3750	Outer Full	18.18	19.43	/	Pass
	3789.99	Outer Full	18.14	19.42	/	Pass
CP-OFDM QPSK	3710.01	Outer Full	19.19	20.98	/	Pass
	3750	Outer Full	19.27	29.18	/	Pass
	3789.99	Outer Full	19.30	32.95	/	Pass
CP-OFDM 16 QAM	3710.01	Outer Full	19.13	22.01	/	Pass
	3750	Outer Full	19.27	28.57	/	Pass
	3789.99	Outer Full	19.27	29.52	/	Pass
CP-OFDM 64 QAM	3710.01	Outer Full	19.18	20.45	/	Pass
	3750	Outer Full	19.26	26.00	/	Pass
	3789.99	Outer Full	19.21	24.40	/	Pass
CP-OFDM 256 QAM	3710.01	Outer Full	19.09	20.39	/	Pass
	3750	Outer Full	19.09	20.49	/	Pass
	3789.99	Outer Full	19.16	20.44	/	Pass

#### 4.1.4 15k\_SISO\_25MHz\_NTNV

5G NR n78a SCS=15kHz SISO 25MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3712.5	Outer Full	23.11	24.65	/	Pass
	3750	Outer Full	23.25	24.88	/	Pass

DFT-s-OFDM QPSK	3787.5	Outer Full	23.29	28.56	/	Pass
	3712.5	Outer Full	23.21	24.39	/	Pass
	3750	Outer Full	23.21	24.92	/	Pass
	3787.5	Outer Full	23.19	24.82	/	Pass
DFT-s-OFDM 16 QAM	3712.5	Outer Full	23.18	24.52	/	Pass
	3750	Outer Full	23.01	24.67	/	Pass
	3787.5	Outer Full	23.16	24.78	/	Pass
DFT-s-OFDM 64 QAM	3712.5	Outer Full	22.97	24.67	/	Pass
	3750	Outer Full	23.09	24.70	/	Pass
	3787.5	Outer Full	23.08	24.96	/	Pass
DFT-s-OFDM 256 QAM	3712.5	Outer Full	23.02	24.80	/	Pass
	3750	Outer Full	23.08	25.08	/	Pass
	3787.5	Outer Full	23.07	24.68	/	Pass
CP-OFDM QPSK	3712.5	Outer Full	23.98	34.10	/	Pass
	3750	Outer Full	24.08	37.23	/	Pass
	3787.5	Outer Full	24.05	32.70	/	Pass
CP-OFDM 16 QAM	3712.5	Outer Full	24.00	28.16	/	Pass
	3750	Outer Full	24.00	45.26	/	Pass
	3787.5	Outer Full	24.03	32.28	/	Pass
CP-OFDM 64 QAM	3712.5	Outer Full	23.91	25.59	/	Pass
	3750	Outer Full	23.96	29.46	/	Pass
	3787.5	Outer Full	24.00	26.46	/	Pass
CP-OFDM 256 QAM	3712.5	Outer Full	23.78	25.55	/	Pass
	3750	Outer Full	23.92	25.68	/	Pass
	3787.5	Outer Full	23.84	25.54	/	Pass

#### 4.1.5 15k\_SISO\_30MHz\_NTNV

5G NR n78a SCS=15kHz SISO 30MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3715.005	Outer Full	28.89	31.04	/	Pass
	3750	Outer Full	28.97	30.98	/	Pass
	3784.995	Outer Full	29.01	31.00	/	Pass
DFT-s-OFDM QPSK	3715.005	Outer Full	29.02	30.91	/	Pass
	3750	Outer Full	28.96	30.85	/	Pass
	3784.995	Outer Full	29.05	30.92	/	Pass
DFT-s-OFDM 16 QAM	3715.005	Outer Full	28.87	30.81	/	Pass
	3750	Outer Full	28.92	30.85	/	Pass
	3784.995	Outer Full	28.90	30.88	/	Pass
DFT-s-OFDM 64 QAM	3715.005	Outer Full	28.91	30.85	/	Pass
	3750	Outer Full	28.94	30.77	/	Pass
	3784.995	Outer Full	28.98	30.81	/	Pass
DFT-s-OFDM 256 QAM	3715.005	Outer Full	28.84	30.81	/	Pass
	3750	Outer Full	28.92	30.73	/	Pass
	3784.995	Outer Full	28.87	30.81	/	Pass
CP-OFDM QPSK	3715.005	Outer Full	28.98	32.60	/	Pass
	3750	Outer Full	29.02	40.91	/	Pass
	3784.995	Outer Full	29.06	39.90	/	Pass
CP-OFDM 16 QAM	3715.005	Outer Full	28.99	33.09	/	Pass
	3750	Outer Full	28.99	35.62	/	Pass
	3784.995	Outer Full	29.03	38.90	/	Pass
CP-OFDM 64 QAM	3715.005	Outer Full	28.94	33.19	/	Pass
	3750	Outer Full	29.00	34.97	/	Pass
	3784.995	Outer Full	28.96	39.07	/	Pass
CP-OFDM 256 QAM	3715.005	Outer Full	28.90	30.77	/	Pass
	3750	Outer Full	28.86	30.76	/	Pass
	3784.995	Outer Full	28.84	30.81	/	Pass

4.1.6 15k\_SISO\_40MHz\_NTNV

5G NR n78a SCS=15kHz SISO 40MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3720	Outer_Full	39.23	57.89	/	Pass
	3750	Outer_Full	39.35	57.75	/	Pass
	3780	Outer_Full	39.43	77.85	/	Pass
DFT-s-OFDM QPSK	3720	Outer_Full	39.19	43.00	/	Pass
	3750	Outer_Full	39.16	44.57	/	Pass
	3780	Outer_Full	39.38	51.63	/	Pass
DFT-s-OFDM 16 QAM	3720	Outer_Full	39.12	41.53	/	Pass
	3750	Outer_Full	39.08	41.61	/	Pass
	3780	Outer_Full	39.18	41.55	/	Pass
DFT-s-OFDM 64 QAM	3720	Outer_Full	38.97	41.60	/	Pass
	3750	Outer_Full	39.09	41.56	/	Pass
	3780	Outer_Full	38.90	41.58	/	Pass
DFT-s-OFDM 256 QAM	3720	Outer_Full	39.08	41.44	/	Pass
	3750	Outer_Full	39.09	41.44	/	Pass
	3780	Outer_Full	38.93	41.57	/	Pass
CP-OFDM QPSK	3720	Outer_Full	39.22	58.26	/	Pass
	3750	Outer_Full	39.28	58.56	/	Pass
	3780	Outer_Full	39.30	64.43	/	Pass
CP-OFDM 16 QAM	3720	Outer_Full	39.06	45.77	/	Pass
	3750	Outer_Full	39.24	60.93	/	Pass
	3780	Outer_Full	39.28	50.19	/	Pass
CP-OFDM 64 QAM	3720	Outer_Full	39.16	41.37	/	Pass
	3750	Outer_Full	39.27	42.59	/	Pass
	3780	Outer_Full	39.27	49.30	/	Pass
CP-OFDM 256 QAM	3720	Outer_Full	38.95	41.61	/	Pass
	3750	Outer_Full	39.16	41.56	/	Pass
	3780	Outer_Full	39.12	41.51	/	Pass

4.1.7 15k\_SISO\_50MHz\_NTNV

5G NR n78a SCS=15kHz SISO 50MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3725.01	Outer_Full	48.75	52.64	/	Pass
	3750	Outer_Full	48.89	53.80	/	Pass
	3774.99	Outer_Full	49.05	53.92	/	Pass
DFT-s-OFDM QPSK	3725.01	Outer_Full	48.52	51.98	/	Pass
	3750	Outer_Full	48.89	62.37	/	Pass
	3774.99	Outer_Full	48.86	59.20	/	Pass
DFT-s-OFDM 16 QAM	3725.01	Outer_Full	48.67	51.61	/	Pass
	3750	Outer_Full	48.67	51.67	/	Pass
	3774.99	Outer_Full	48.71	51.66	/	Pass
DFT-s-OFDM 64 QAM	3725.01	Outer_Full	48.60	51.59	/	Pass
	3750	Outer_Full	48.44	51.82	/	Pass
	3774.99	Outer_Full	48.53	51.91	/	Pass
DFT-s-OFDM 256 QAM	3725.01	Outer_Full	48.61	51.63	/	Pass
	3750	Outer_Full	48.72	51.82	/	Pass
	3774.99	Outer_Full	48.66	51.72	/	Pass
CP-OFDM QPSK	3725.01	Outer_Full	43.81	55.80	/	Pass
	3750	Outer_Full	44.01	72.03	/	Pass

CP-OFDM 16 QAM	3774.99	Outer Full	44.06	75.92	/	Pass
	3725.01	Outer Full	43.94	55.56	/	Pass
	3750	Outer Full	44.05	53.14	/	Pass
	3774.99	Outer Full	44.16	70.54	/	Pass
CP-OFDM 64 QAM	3725.01	Outer Full	43.66	49.24	/	Pass
	3750	Outer Full	43.95	59.67	/	Pass
	3774.99	Outer Full	44.05	83.78	/	Pass
CP-OFDM 256 QAM	3725.01	Outer Full	43.80	46.75	/	Pass
	3750	Outer Full	43.90	46.85	/	Pass
	3774.99	Outer Full	43.88	46.81	/	Pass

#### 4.1.8 30k\_SISO\_10MHz\_NTNV

5G NR n78a SCS=30kHz SISO 10MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3705.015	Outer Full	8.80	9.72	/	Pass
	3750.015	Outer Full	8.77	11.21	/	Pass
	3794.985	Outer Full	8.83	9.94	/	Pass
DFT-s-OFDM QPSK	3705.015	Outer Full	8.84	10.09	/	Pass
	3750.015	Outer Full	8.82	9.32	/	Pass
	3794.985	Outer Full	8.91	9.90	/	Pass
DFT-s-OFDM 16 QAM	3705.015	Outer Full	8.74	11.66	/	Pass
	3750.015	Outer Full	8.86	9.98	/	Pass
	3794.985	Outer Full	8.81	9.98	/	Pass
DFT-s-OFDM 64 QAM	3705.015	Outer Full	9.02	10.99	/	Pass
	3750.015	Outer Full	8.98	11.40	/	Pass
	3794.985	Outer Full	8.94	9.59	/	Pass
DFT-s-OFDM 256 QAM	3705.015	Outer Full	8.67	10.00	/	Pass
	3750.015	Outer Full	8.77	9.18	/	Pass
	3794.985	Outer Full	8.66	9.68	/	Pass
CP-OFDM QPSK	3705.015	Outer Full	8.64	9.19	/	Pass
	3750.015	Outer Full	8.82	9.69	/	Pass
	3794.985	Outer Full	8.91	9.51	/	Pass
CP-OFDM 16 QAM	3705.015	Outer Full	8.74	10.86	/	Pass
	3750.015	Outer Full	8.76	13.00	/	Pass
	3794.985	Outer Full	8.76	9.05	/	Pass
CP-OFDM 64 QAM	3705.015	Outer Full	8.80	9.66	/	Pass
	3750.015	Outer Full	8.78	10.69	/	Pass
	3794.985	Outer Full	8.95	9.75	/	Pass
CP-OFDM 256 QAM	3705.015	Outer Full	9.16	10.50	/	Pass
	3750.015	Outer Full	8.80	9.14	/	Pass
	3794.985	Outer Full	8.95	9.75	/	Pass

#### 4.1.9 30k\_SISO\_15MHz\_NTNV

5G NR n78a SCS=30kHz SISO 15MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3707.505	Outer Full	13.07	14.50	/	Pass
	3750.015	Outer Full	13.35	15.00	/	Pass
	3792.495	Outer Full	13.21	14.79	/	Pass
DFT-s-OFDM QPSK	3707.505	Outer Full	13.33	14.08	/	Pass
	3750.015	Outer Full	13.39	14.10	/	Pass
	3792.495	Outer Full	13.18	17.17	/	Pass
DFT-s-OFDM 16 QAM	3707.505	Outer Full	13.34	13.88	/	Pass

DFT-s-OFDM 64 QAM	3750.015	Outer Full	13.30	14.22	/	Pass
	3792.495	Outer Full	13.11	16.44	/	Pass
	3707.505	Outer Full	13.11	14.71	/	Pass
DFT-s-OFDM 256 QAM	3750.015	Outer Full	13.36	14.08	/	Pass
	3792.495	Outer Full	13.48	14.59	/	Pass
	3707.505	Outer Full	13.20	16.18	/	Pass
CP-OFDM QPSK	3750.015	Outer Full	13.31	13.87	/	Pass
	3792.495	Outer Full	13.25	13.93	/	Pass
	3707.505	Outer Full	14.03	15.15	/	Pass
CP-OFDM 16 QAM	3750.015	Outer Full	14.03	14.54	/	Pass
	3792.495	Outer Full	14.09	14.87	/	Pass
	3707.505	Outer Full	14.05	14.75	/	Pass
CP-OFDM 64 QAM	3750.015	Outer Full	14.22	15.82	/	Pass
	3792.495	Outer Full	14.05	14.58	/	Pass
	3707.505	Outer Full	13.89	17.52	/	Pass
CP-OFDM 256 QAM	3750.015	Outer Full	13.95	14.54	/	Pass
	3792.495	Outer Full	13.88	19.44	/	Pass
	3707.505	Outer Full	13.93	14.94	/	Pass
CP-OFDM 256 QAM	3750.015	Outer Full	14.03	15.59	/	Pass
	3792.495	Outer Full	13.73	16.25	/	Pass
	3707.505	Outer Full	13.93	14.94	/	Pass

#### 4.1.10 30k\_SISO\_20MHz\_NTNV

5G NR n78a SCS=30kHz SISO 20MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3710.025	Outer Full	18.55	19.72	/	Pass
	3750.015	Outer Full	18.55	20.45	/	Pass
	3789.975	Outer Full	18.32	34.33	/	Pass
DFT-s-OFDM QPSK	3710.025	Outer Full	18.23	19.91	/	Pass
	3750.015	Outer Full	18.18	19.20	/	Pass
	3789.975	Outer Full	18.52	19.28	/	Pass
DFT-s-OFDM 16 QAM	3710.025	Outer Full	18.48	19.71	/	Pass
	3750.015	Outer Full	18.50	19.90	/	Pass
	3789.975	Outer Full	18.55	19.22	/	Pass
DFT-s-OFDM 64 QAM	3710.025	Outer Full	18.55	20.06	/	Pass
	3750.015	Outer Full	18.29	19.71	/	Pass
	3789.975	Outer Full	18.27	24.62	/	Pass
DFT-s-OFDM 256 QAM	3710.025	Outer Full	18.43	19.19	/	Pass
	3750.015	Outer Full	18.38	19.20	/	Pass
	3789.975	Outer Full	18.18	19.45	/	Pass
CP-OFDM QPSK	3710.025	Outer Full	18.49	22.31	/	Pass
	3750.015	Outer Full	18.55	19.48	/	Pass
	3789.975	Outer Full	18.95	22.28	/	Pass
CP-OFDM 16 QAM	3710.025	Outer Full	18.30	19.85	/	Pass
	3750.015	Outer Full	19.00	20.24	/	Pass
	3789.975	Outer Full	18.70	19.34	/	Pass
CP-OFDM 64 QAM	3710.025	Outer Full	18.46	20.09	/	Pass
	3750.015	Outer Full	18.95	19.64	/	Pass
	3789.975	Outer Full	18.44	20.25	/	Pass
CP-OFDM 256 QAM	3710.025	Outer Full	18.96	21.22	/	Pass
	3750.015	Outer Full	18.76	19.51	/	Pass
	3789.975	Outer Full	19.18	24.98	/	Pass

#### 4.1.11 30k\_SISO\_25MHz\_NTNV

5G NR n78a SCS=30kHz SISO 25MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3712.515	Outer Full	23.11	25.46	/	Pass
	3750.015	Outer Full	23.26	24.98	/	Pass
	3787.485	Outer Full	23.23	25.68	/	Pass
DFT-s-OFDM QPSK	3712.515	Outer Full	23.64	24.69	/	Pass
	3750.015	Outer Full	23.23	27.61	/	Pass
	3787.485	Outer Full	23.14	25.20	/	Pass
DFT-s-OFDM 16 QAM	3712.515	Outer Full	23.52	24.44	/	Pass
	3750.015	Outer Full	23.68	24.68	/	Pass
	3787.485	Outer Full	23.28	27.95	/	Pass
DFT-s-OFDM 64 QAM	3712.515	Outer Full	23.64	25.09	/	Pass
	3750.015	Outer Full	23.24	26.76	/	Pass
	3787.485	Outer Full	23.66	25.72	/	Pass
DFT-s-OFDM 256 QAM	3712.515	Outer Full	23.18	27.81	/	Pass
	3750.015	Outer Full	23.50	24.47	/	Pass
	3787.485	Outer Full	23.61	24.43	/	Pass
CP-OFDM QPSK	3712.515	Outer Full	23.97	24.76	/	Pass
	3750.015	Outer Full	23.92	24.85	/	Pass
	3787.485	Outer Full	23.99	24.88	/	Pass
CP-OFDM 16 QAM	3712.515	Outer Full	23.46	28.52	/	Pass
	3750.015	Outer Full	23.50	33.16	/	Pass
	3787.485	Outer Full	23.66	35.29	/	Pass
CP-OFDM 64 QAM	3712.515	Outer Full	23.30	25.78	/	Pass
	3750.015	Outer Full	23.54	27.96	/	Pass
	3787.485	Outer Full	24.00	25.02	/	Pass
CP-OFDM 256 QAM	3712.515	Outer Full	23.80	24.76	/	Pass
	3750.015	Outer Full	23.64	24.40	/	Pass
	3787.485	Outer Full	23.14	24.16	/	Pass

#### 4.1.12 30k\_SISO\_30MHz NTN

5G NR n78a SCS=30kHz SISO 30MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3715.005	Outer Full	27.40	29.23	/	Pass
	3750.015	Outer Full	27.38	29.17	/	Pass
	3784.995	Outer Full	27.74	29.06	/	Pass
DFT-s-OFDM QPSK	3715.005	Outer Full	27.84	29.14	/	Pass
	3750.015	Outer Full	27.37	31.12	/	Pass
	3784.995	Outer Full	27.42	35.65	/	Pass
DFT-s-OFDM 16 QAM	3715.005	Outer Full	27.92	29.02	/	Pass
	3750.015	Outer Full	27.83	29.13	/	Pass
	3784.995	Outer Full	27.76	29.11	/	Pass
DFT-s-OFDM 64 QAM	3715.005	Outer Full	27.29	29.05	/	Pass
	3750.015	Outer Full	27.69	28.83	/	Pass
	3784.995	Outer Full	27.31	29.36	/	Pass
DFT-s-OFDM 256 QAM	3715.005	Outer Full	27.17	28.90	/	Pass
	3750.015	Outer Full	27.33	28.30	/	Pass
	3784.995	Outer Full	27.20	28.44	/	Pass
CP-OFDM QPSK	3715.005	Outer Full	28.21	30.17	/	Pass
	3750.015	Outer Full	28.97	30.14	/	Pass
	3784.995	Outer Full	28.82	29.87	/	Pass
CP-OFDM 16 QAM	3715.005	Outer Full	28.88	29.84	/	Pass
	3750.015	Outer Full	28.44	36.28	/	Pass
	3784.995	Outer Full	28.78	30.19	/	Pass
CP-OFDM 64 QAM	3715.005	Outer Full	28.84	29.85	/	Pass

CP-OFDM 256 QAM	3750.015	Outer Full	28.30	32.36	/	Pass
	3784.995	Outer Full	28.27	29.49	/	Pass
	3715.005	Outer Full	28.47	29.78	/	Pass
	3750.015	Outer Full	28.56	29.88	/	Pass
	3784.995	Outer Full	28.18	30.29	/	Pass

#### 4.1.13 30k\_SISO\_40MHz\_NTNV

5G NR n78a SCS=30kHz SISO 40MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3720.015	Outer Full	37.01	38.50	/	Pass
	3750.015	Outer Full	36.65	39.54	/	Pass
	3779.985	Outer Full	36.37	38.31	/	Pass
DFT-s-OFDM QPSK	3720.015	Outer Full	36.46	39.20	/	Pass
	3750.015	Outer Full	36.99	38.36	/	Pass
	3779.985	Outer Full	37.25	38.77	/	Pass
DFT-s-OFDM 16 QAM	3720.015	Outer Full	36.29	38.06	/	Pass
	3750.015	Outer Full	36.94	38.48	/	Pass
	3779.985	Outer Full	36.44	38.92	/	Pass
DFT-s-OFDM 64 QAM	3720.015	Outer Full	36.81	38.64	/	Pass
	3750.015	Outer Full	37.03	38.56	/	Pass
	3779.985	Outer Full	37.09	38.60	/	Pass
DFT-s-OFDM 256 QAM	3720.015	Outer Full	36.70	38.61	/	Pass
	3750.015	Outer Full	36.32	38.42	/	Pass
	3779.985	Outer Full	36.34	38.88	/	Pass
CP-OFDM QPSK	3720.015	Outer Full	39.34	41.07	/	Pass
	3750.015	Outer Full	39.09	40.79	/	Pass
	3779.985	Outer Full	38.69	69.75	/	Pass
CP-OFDM 16 QAM	3720.015	Outer Full	38.44	47.15	/	Pass
	3750.015	Outer Full	39.18	40.62	/	Pass
	3779.985	Outer Full	38.66	69.34	/	Pass
CP-OFDM 64 QAM	3720.015	Outer Full	38.34	40.15	/	Pass
	3750.015	Outer Full	38.58	65.36	/	Pass
	3779.985	Outer Full	38.33	39.83	/	Pass
CP-OFDM 256 QAM	3720.015	Outer Full	38.27	40.65	/	Pass
	3750.015	Outer Full	38.88	40.10	/	Pass
	3779.985	Outer Full	38.97	40.10	/	Pass

#### 4.1.14 30k\_SISO\_50MHz\_NTNV

5G NR n78a SCS=30kHz SISO 50MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3725.025	Outer Full	47.39	49.48	/	Pass
	3750.015	Outer Full	47.22	49.36	/	Pass
	3774.975	Outer Full	47.03	48.76	/	Pass
DFT-s-OFDM QPSK	3725.025	Outer Full	47.44	49.66	/	Pass
	3750.015	Outer Full	47.59	49.44	/	Pass
	3774.975	Outer Full	47.43	49.40	/	Pass
DFT-s-OFDM 16 QAM	3725.025	Outer Full	47.31	49.12	/	Pass
	3750.015	Outer Full	46.12	48.17	/	Pass
	3774.975	Outer Full	46.05	48.30	/	Pass
DFT-s-OFDM 64 QAM	3725.025	Outer Full	47.13	49.13	/	Pass
	3750.015	Outer Full	46.30	48.56	/	Pass
	3774.975	Outer Full	46.42	48.29	/	Pass

DFT-s-OFDM 256 QAM	3725.025	Outer Full	45.99	49.34	/	Pass
	3750.015	Outer Full	47.69	50.03	/	Pass
	3774.975	Outer Full	46.24	49.52	/	Pass
CP-OFDM QPSK	3725.025	Outer Full	49.08	50.91	/	Pass
	3750.015	Outer Full	48.98	50.77	/	Pass
	3774.975	Outer Full	49.10	50.89	/	Pass
CP-OFDM 16 QAM	3725.025	Outer Full	49.11	50.87	/	Pass
	3750.015	Outer Full	48.16	49.79	/	Pass
	3774.975	Outer Full	49.23	51.09	/	Pass
CP-OFDM 64 QAM	3725.025	Outer Full	48.96	50.93	/	Pass
	3750.015	Outer Full	48.13	59.10	/	Pass
	3774.975	Outer Full	49.06	50.53	/	Pass
CP-OFDM 256 QAM	3725.025	Outer Full	48.74	50.62	/	Pass
	3750.015	Outer Full	48.73	50.61	/	Pass
	3774.975	Outer Full	47.85	50.16	/	Pass

#### 4.1.15 30k\_SISO\_60MHz\_NTNV

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	3730.005	Outer Full	58.63	62.37	/	Pass
	3750.015	Outer Full	59.65	62.42	/	Pass
	3769.995	Outer Full	58.67	62.95	/	Pass
DFT-s-OFDM QPSK	3730.005	Outer Full	58.73	61.28	/	Pass
	3750.015	Outer Full	58.44	62.13	/	Pass
	3769.995	Outer Full	58.71	70.09	/	Pass
DFT-s-OFDM 16 QAM	3730.005	Outer Full	58.29	62.27	/	Pass
	3750.015	Outer Full	58.39	60.75	/	Pass
	3769.995	Outer Full	58.46	61.42	/	Pass
DFT-s-OFDM 64 QAM	3730.005	Outer Full	59.68	62.20	/	Pass
	3750.015	Outer Full	58.41	62.46	/	Pass
	3769.995	Outer Full	58.51	62.14	/	Pass
DFT-s-OFDM 256 QAM	3730.005	Outer Full	58.10	62.05	/	Pass
	3750.015	Outer Full	58.40	62.14	/	Pass
	3769.995	Outer Full	59.31	61.32	/	Pass
CP-OFDM QPSK	3730.005	Outer Full	58.66	75.94	/	Pass
	3750.015	Outer Full	59.73	62.02	/	Pass
	3769.995	Outer Full	58.31	60.67	/	Pass
CP-OFDM 16 QAM	3730.005	Outer Full	58.49	62.50	/	Pass
	3750.015	Outer Full	58.25	60.89	/	Pass
	3769.995	Outer Full	59.93	62.06	/	Pass
CP-OFDM 64 QAM	3730.005	Outer Full	58.23	62.46	/	Pass
	3750.015	Outer Full	58.52	66.14	/	Pass
	3769.995	Outer Full	59.48	61.72	/	Pass
CP-OFDM 256 QAM	3730.005	Outer Full	59.56	61.57	/	Pass
	3750.015	Outer Full	59.04	61.53	/	Pass
	3769.995	Outer Full	58.29	62.29	/	Pass

#### 4.1.16 30k\_SISO\_70MHz\_NTNV

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	3735.015	Outer Full	66.79	70.27	/	Pass
	3750.015	Outer Full	65.56	102.83	/	Pass



DFT-s-OFDM QPSK	3764.985	Outer Full	65.31	68.84	/	Pass
	3735.015	Outer Full	66.76	69.51	/	Pass
	3750.015	Outer Full	65.72	70.19	/	Pass
	3764.985	Outer Full	66.75	69.54	/	Pass
DFT-s-OFDM 16 QAM	3735.015	Outer Full	66.51	69.20	/	Pass
	3750.015	Outer Full	66.92	69.54	/	Pass
	3764.985	Outer Full	66.86	69.47	/	Pass
DFT-s-OFDM 64 QAM	3735.015	Outer Full	65.16	69.69	/	Pass
	3750.015	Outer Full	65.41	69.66	/	Pass
	3764.985	Outer Full	64.97	68.13	/	Pass
DFT-s-OFDM 256 QAM	3735.015	Outer Full	65.07	69.86	/	Pass
	3750.015	Outer Full	65.44	70.55	/	Pass
	3764.985	Outer Full	66.32	69.07	/	Pass
CP-OFDM QPSK	3735.015	Outer Full	70.04	72.66	/	Pass
	3750.015	Outer Full	70.76	106.34	/	Pass
	3764.985	Outer Full	69.11	108.25	/	Pass
CP-OFDM 16 QAM	3735.015	Outer Full	68.56	70.89	/	Pass
	3750.015	Outer Full	69.08	71.01	/	Pass
	3764.985	Outer Full	70.12	72.50	/	Pass
CP-OFDM 64 QAM	3735.015	Outer Full	69.79	72.58	/	Pass
	3750.015	Outer Full	69.98	72.60	/	Pass
	3764.985	Outer Full	69.62	72.53	/	Pass
CP-OFDM 256 QAM	3735.015	Outer Full	69.37	72.19	/	Pass
	3750.015	Outer Full	68.58	72.05	/	Pass
	3764.985	Outer Full	69.26	72.05	/	Pass

#### 4.1.17 30k\_SISO\_80MHz\_NTNV

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	3740.025	Outer Full	79.39	82.20	/	Pass
	3750.015	Outer Full	78.38	115.81	/	Pass
	3759.975	Outer Full	78.41	114.80	/	Pass
DFT-s-OFDM QPSK	3740.025	Outer Full	79.94	84.26	/	Pass
	3750.015	Outer Full	78.19	86.45	/	Pass
	3759.975	Outer Full	77.94	86.40	/	Pass
DFT-s-OFDM 16 QAM	3740.025	Outer Full	79.19	82.67	/	Pass
	3750.015	Outer Full	77.95	83.20	/	Pass
	3759.975	Outer Full	79.70	82.73	/	Pass
DFT-s-OFDM 64 QAM	3740.025	Outer Full	79.68	82.54	/	Pass
	3750.015	Outer Full	79.47	82.30	/	Pass
	3759.975	Outer Full	80.05	83.72	/	Pass
DFT-s-OFDM 256 QAM	3740.025	Outer Full	79.67	82.41	/	Pass
	3750.015	Outer Full	79.06	82.07	/	Pass
	3759.975	Outer Full	77.91	82.81	/	Pass
CP-OFDM QPSK	3740.025	Outer Full	78.68	81.20	/	Pass
	3750.015	Outer Full	78.72	117.40	/	Pass
	3759.975	Outer Full	78.33	104.64	/	Pass
CP-OFDM 16 QAM	3740.025	Outer Full	79.87	82.92	/	Pass
	3750.015	Outer Full	79.78	82.81	/	Pass
	3759.975	Outer Full	80.01	82.90	/	Pass
CP-OFDM 64 QAM	3740.025	Outer Full	80.21	82.94	/	Pass
	3750.015	Outer Full	78.47	86.03	/	Pass
	3759.975	Outer Full	78.53	88.64	/	Pass
CP-OFDM 256 QAM	3740.025	Outer Full	78.28	83.33	/	Pass
	3750.015	Outer Full	79.02	84.56	/	Pass
	3759.975	Outer Full	78.10	83.14	/	Pass

4.1.18 30k\_SISO\_90MHz\_NTNV

5G NR n78a SCS=30kHz SISO 90MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3745.005	Outer_Full	89.57	93.30	/	Pass
	3750.015	Outer_Full	87.95	94.19	/	Pass
	3754.995	Outer_Full	89.91	93.45	/	Pass
DFT-s-OFDM QPSK	3745.005	Outer_Full	89.65	93.18	/	Pass
	3750.015	Outer_Full	89.53	93.10	/	Pass
	3754.995	Outer_Full	87.94	99.12	/	Pass
DFT-s-OFDM 16 QAM	3745.005	Outer_Full	87.61	93.30	/	Pass
	3750.015	Outer_Full	89.03	92.69	/	Pass
	3754.995	Outer_Full	87.62	93.30	/	Pass
DFT-s-OFDM 64 QAM	3745.005	Outer_Full	89.28	92.80	/	Pass
	3750.015	Outer_Full	87.53	93.09	/	Pass
	3754.995	Outer_Full	87.25	93.53	/	Pass
DFT-s-OFDM 256 QAM	3745.005	Outer_Full	89.42	92.61	/	Pass
	3750.015	Outer_Full	88.90	92.61	/	Pass
	3754.995	Outer_Full	89.33	92.49	/	Pass
CP-OFDM QPSK	3745.005	Outer_Full	90.73	93.58	/	Pass
	3750.015	Outer_Full	90.63	93.69	/	Pass
	3754.995	Outer_Full	90.20	93.26	/	Pass
CP-OFDM 16 QAM	3745.005	Outer_Full	89.96	93.14	/	Pass
	3750.015	Outer_Full	90.45	94.72	/	Pass
	3754.995	Outer_Full	88.45	110.74	/	Pass
CP-OFDM 64 QAM	3745.005	Outer_Full	88.38	109.54	/	Pass
	3750.015	Outer_Full	90.26	93.50	/	Pass
	3754.995	Outer_Full	88.54	133.21	/	Pass
CP-OFDM 256 QAM	3745.005	Outer_Full	87.77	93.72	/	Pass
	3750.015	Outer_Full	88.27	93.79	/	Pass
	3754.995	Outer_Full	89.68	93.22	/	Pass

4.1.19 30k\_SISO\_100MHz\_NTNV

5G NR n78a SCS=30kHz SISO 100MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3750.015	Outer_Full	97.57	103.85	/	Pass
	3750.015	Outer_Full	97.88	108.01	/	Pass
	3750.015	Outer_Full	99.49	102.92	/	Pass
DFT-s-OFDM QPSK	3750.015	Outer_Full	96.80	101.90	/	Pass
	3750.015	Outer_Full	99.51	104.12	/	Pass
	3750.015	Outer_Full	99.49	103.48	/	Pass
DFT-s-OFDM 16 QAM	3750.015	Outer_Full	97.29	103.66	/	Pass
	3750.015	Outer_Full	97.11	103.36	/	Pass
	3750.015	Outer_Full	96.86	103.42	/	Pass
DFT-s-OFDM 64 QAM	3750.015	Outer_Full	100.05	104.68	/	Pass
	3750.015	Outer_Full	99.87	104.33	/	Pass
	3750.015	Outer_Full	96.84	103.59	/	Pass
DFT-s-OFDM 256 QAM	3750.015	Outer_Full	99.06	103.08	/	Pass
	3750.015	Outer_Full	99.54	103.12	/	Pass
	3750.015	Outer_Full	99.13	102.97	/	Pass
CP-OFDM QPSK	3750.015	Outer_Full	98.35	144.26	/	Pass
	3750.015	Outer_Full	98.61	139.37	/	Pass

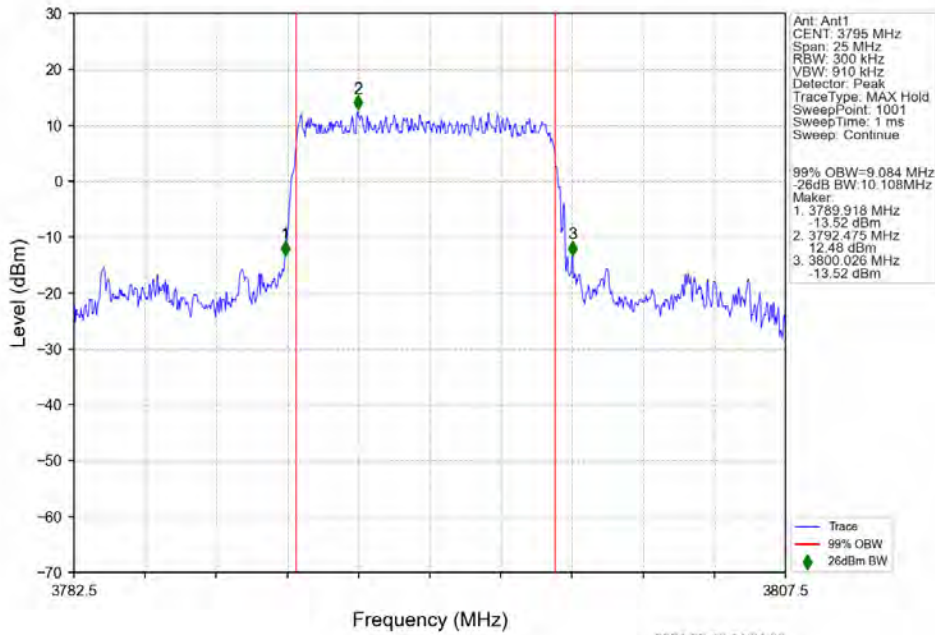
CP-OFDM 16 QAM	3750.015	Outer_Full	100.79	104.27	/	Pass
	3750.015	Outer_Full	100.54	104.49	/	Pass
	3750.015	Outer_Full	99.87	104.14	/	Pass
	3750.015	Outer_Full	98.36	168.28	/	Pass
CP-OFDM 64 QAM	3750.015	Outer_Full	101.12	104.53	/	Pass
	3750.015	Outer_Full	100.41	103.89	/	Pass
	3750.015	Outer_Full	98.42	104.72	/	Pass
CP-OFDM 256 QAM	3750.015	Outer_Full	100.73	104.06	/	Pass
	3750.015	Outer_Full	99.72	103.20	/	Pass
	3750.015	Outer_Full	97.90	104.77	/	Pass

## 4.2 Test Graph

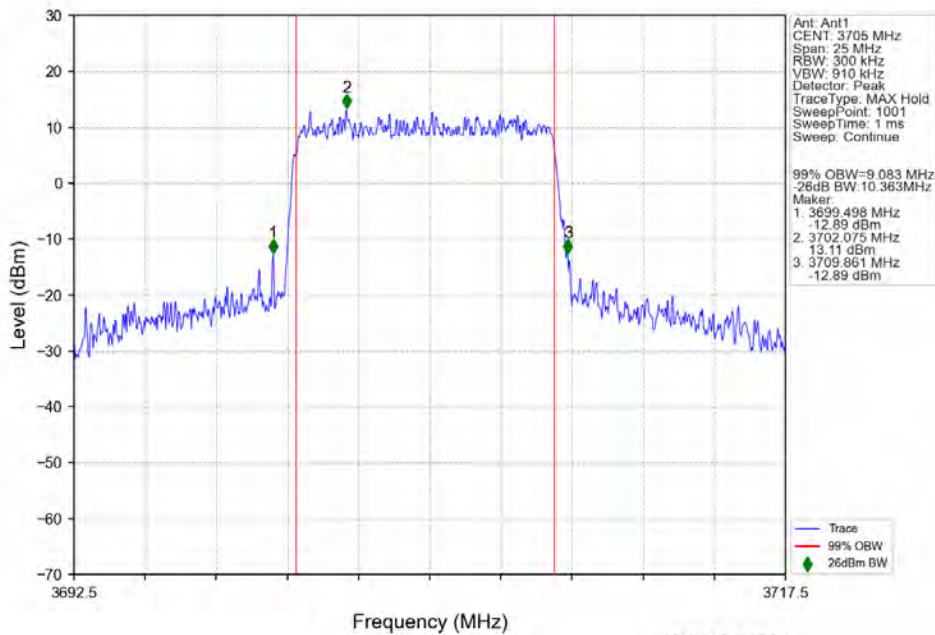
### 4.2.1 15k\_SISO\_10MHz\_NTNV



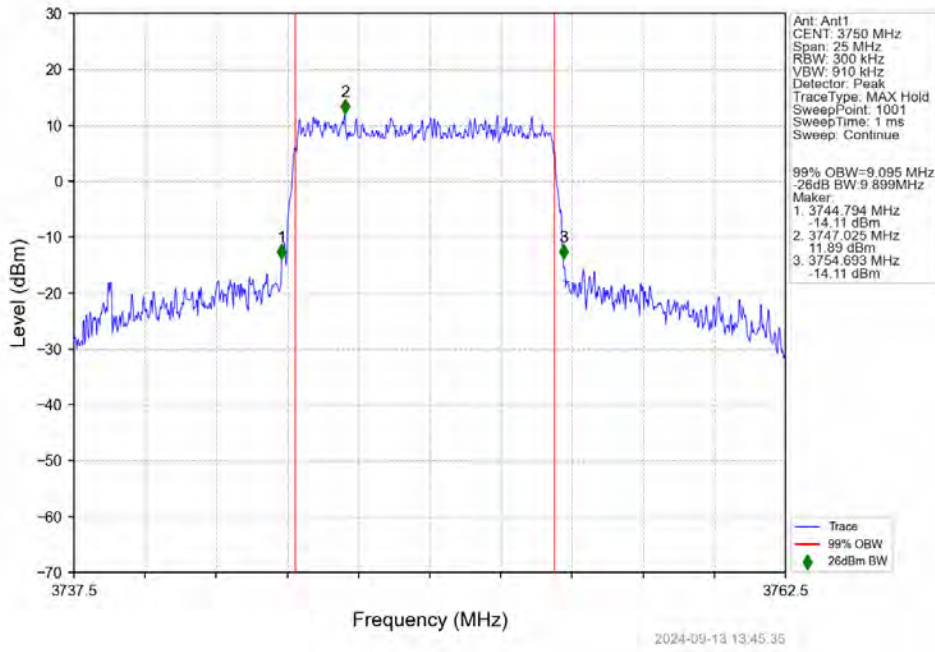
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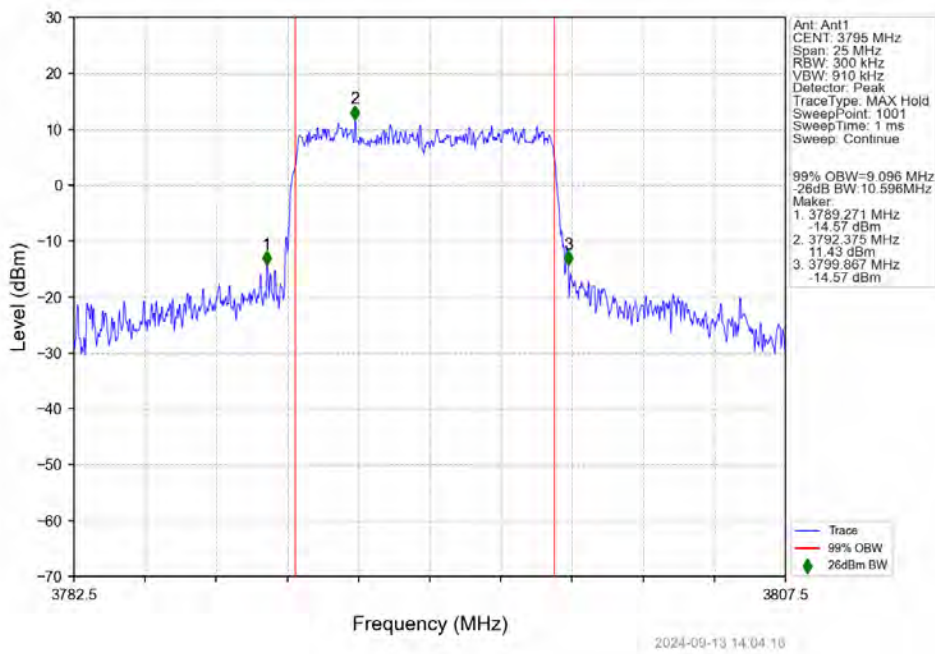
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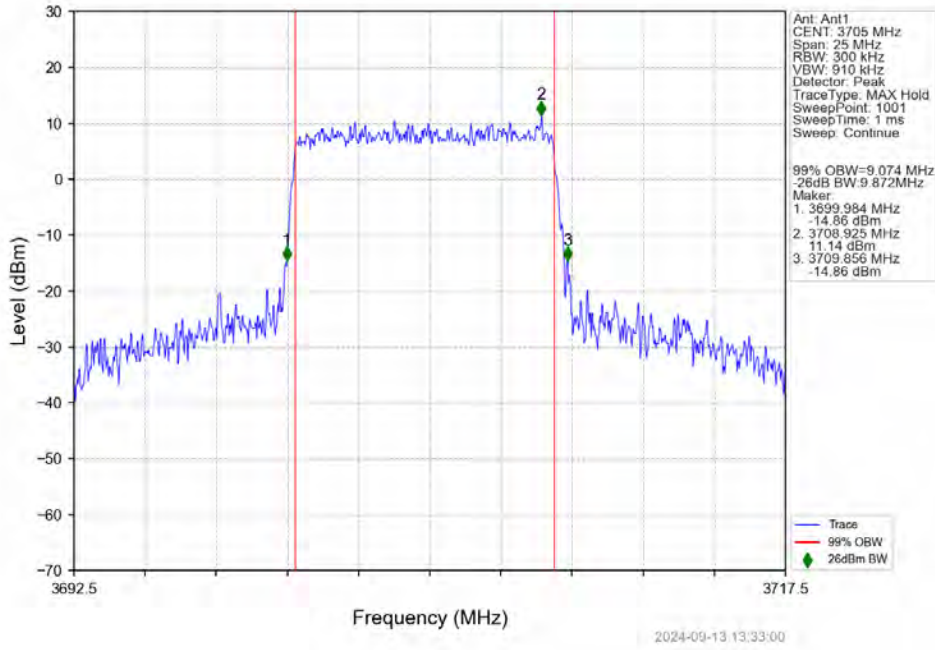
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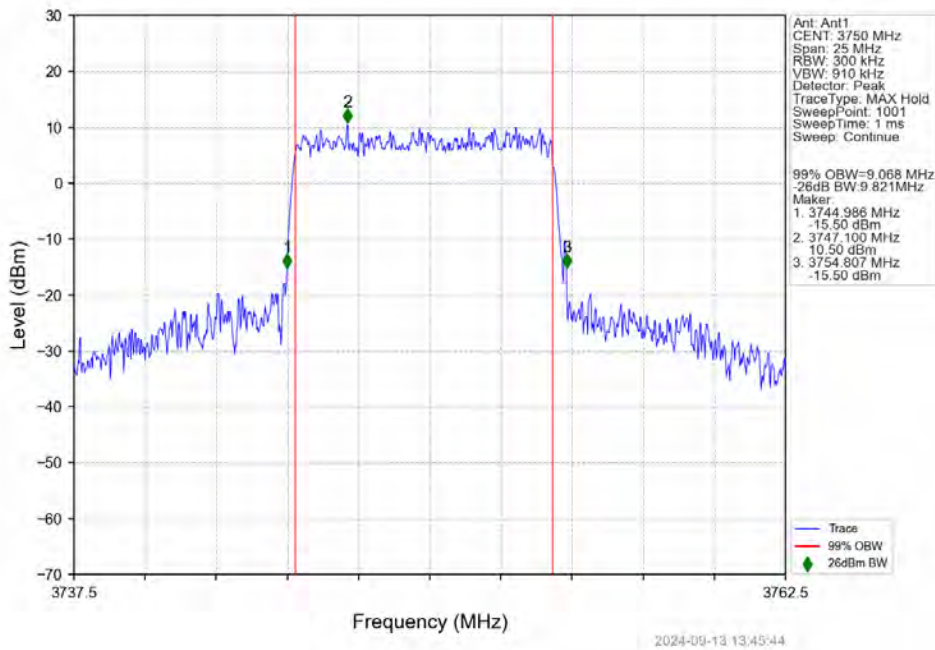
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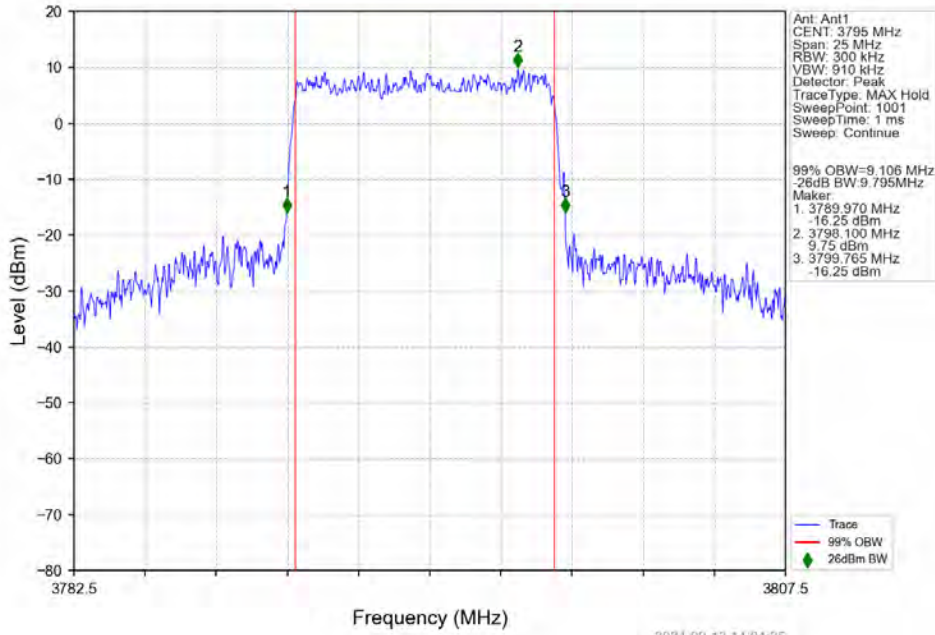
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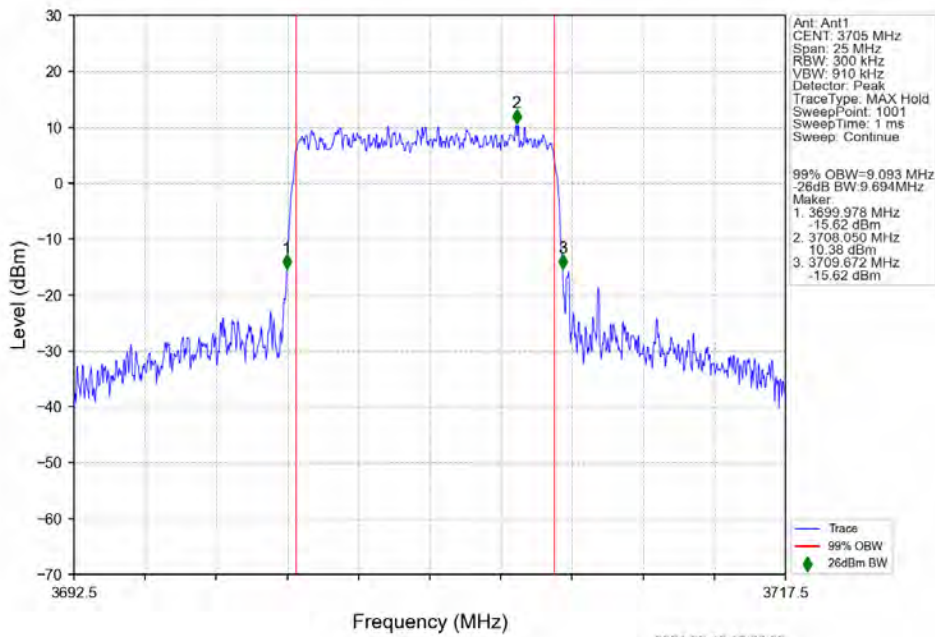
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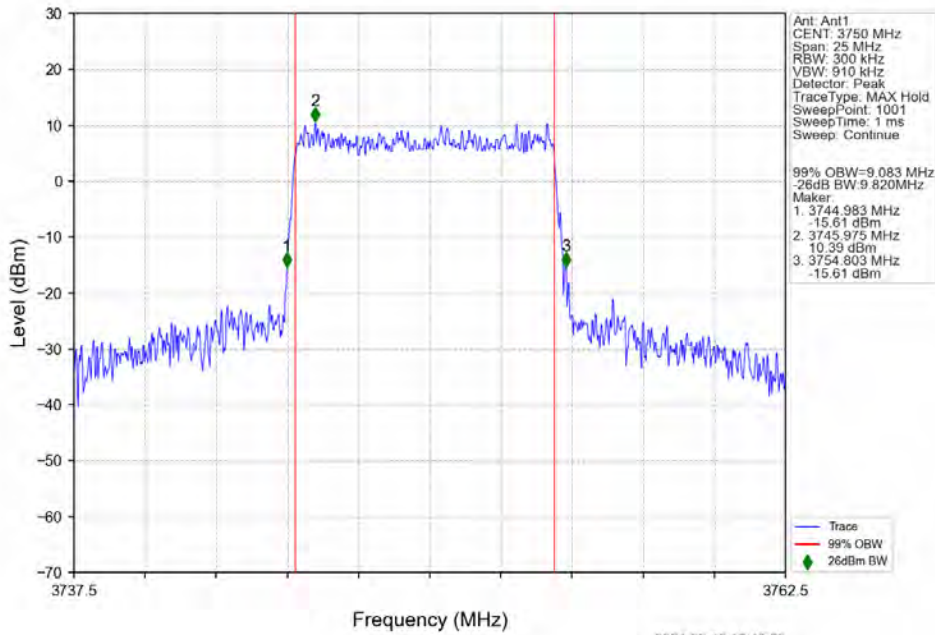


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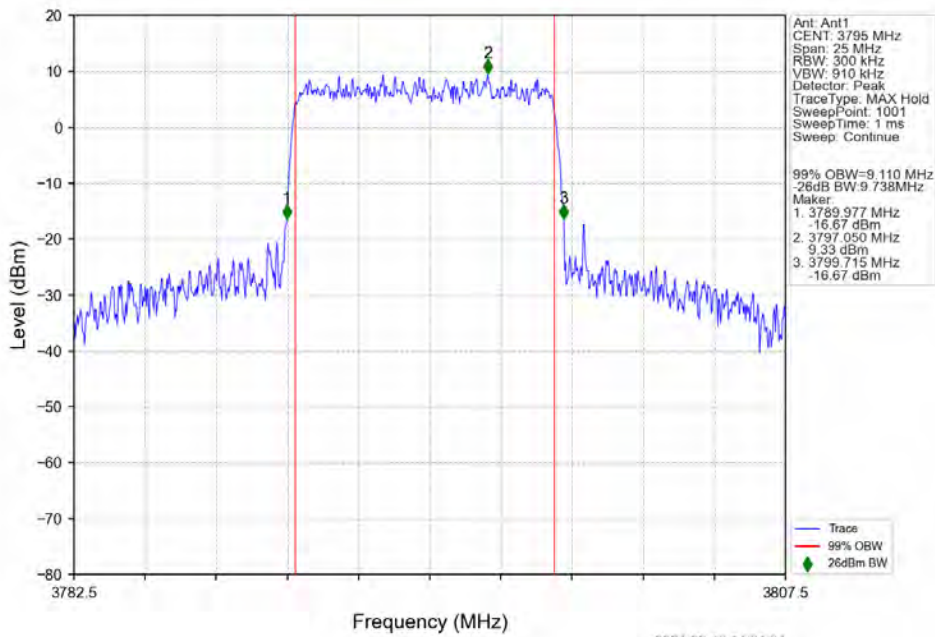




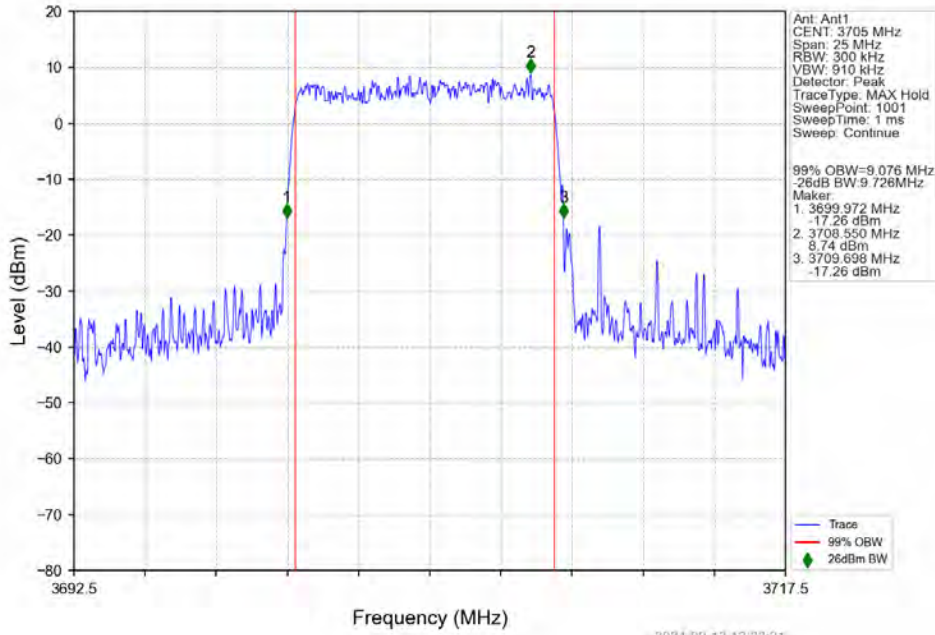
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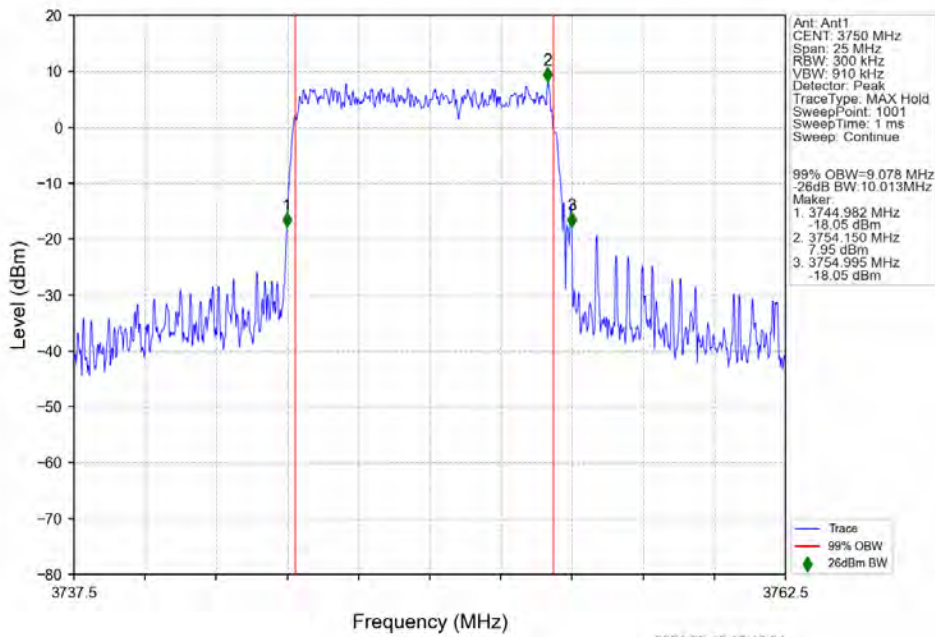
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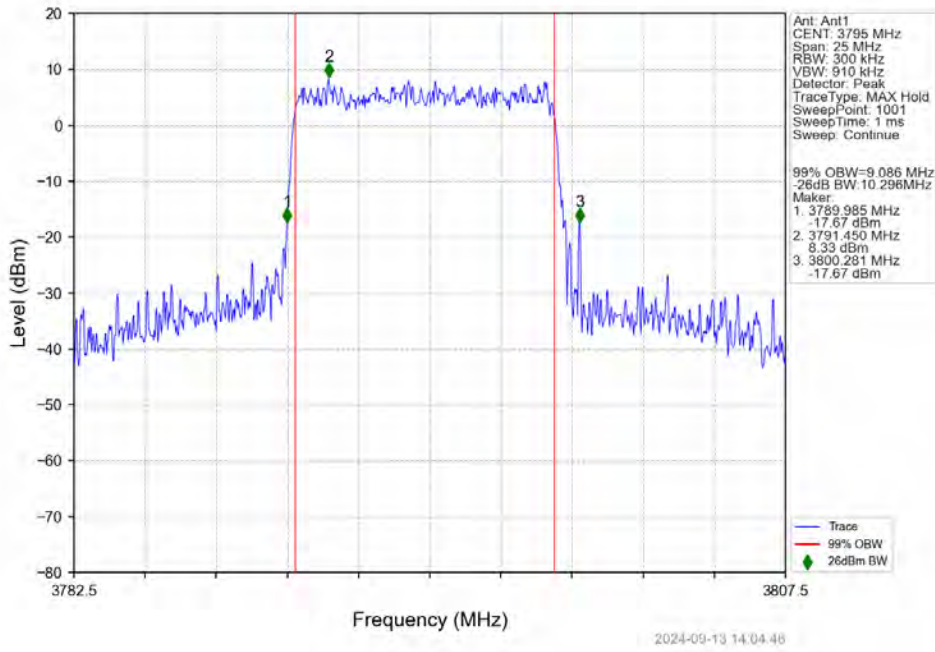
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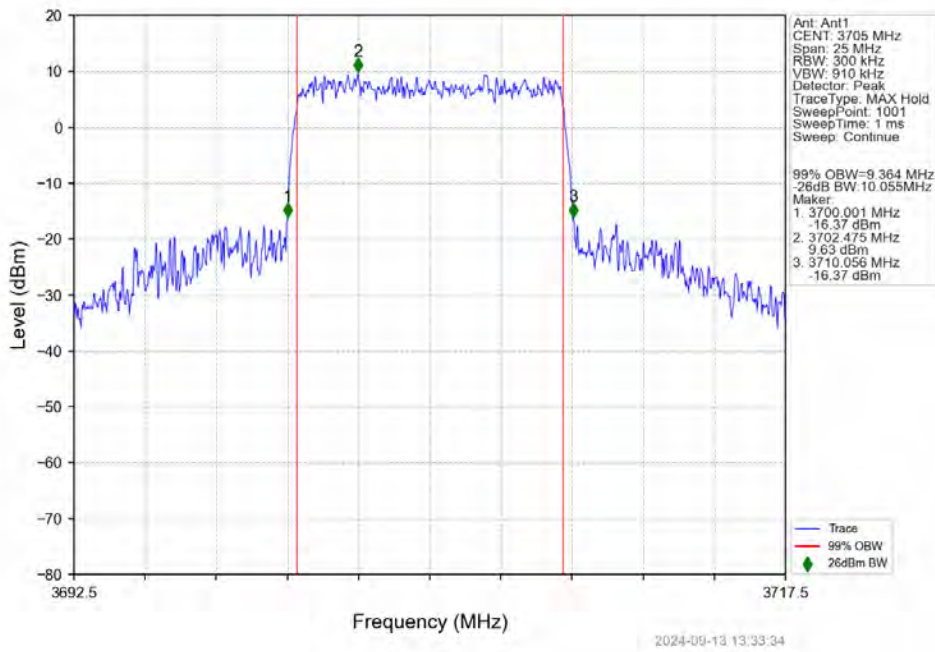
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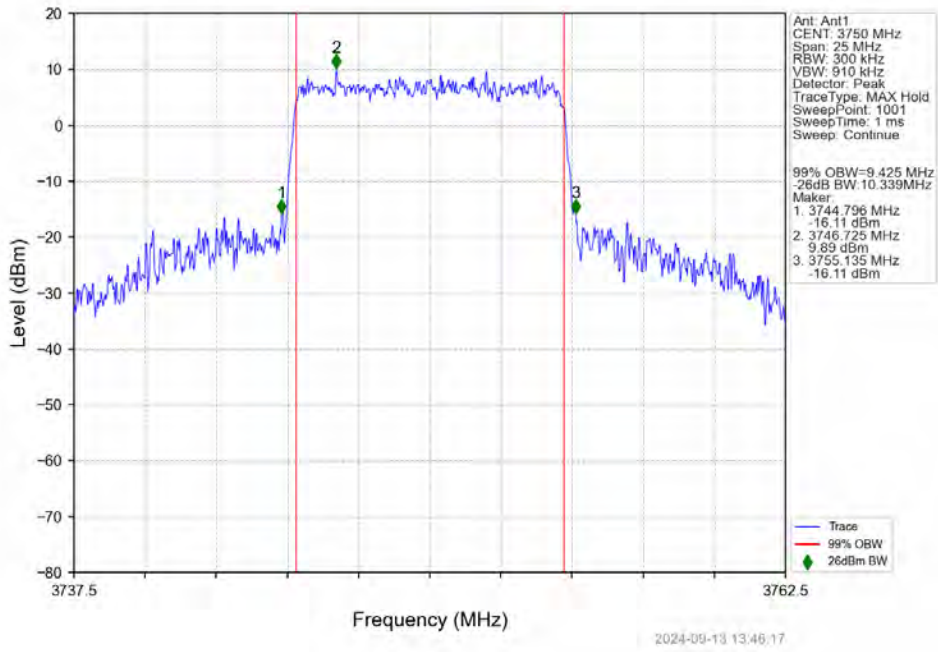
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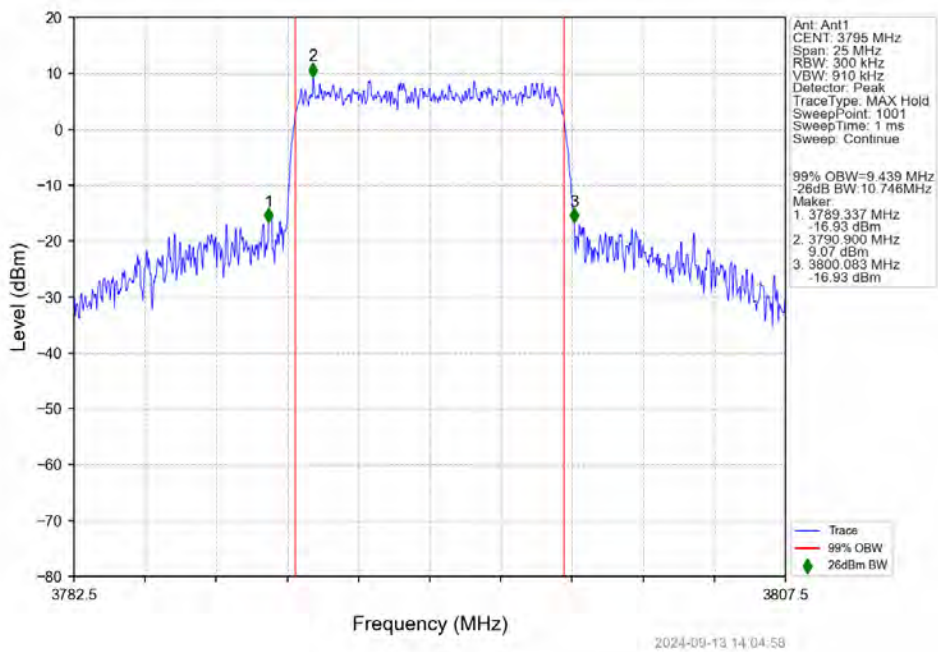
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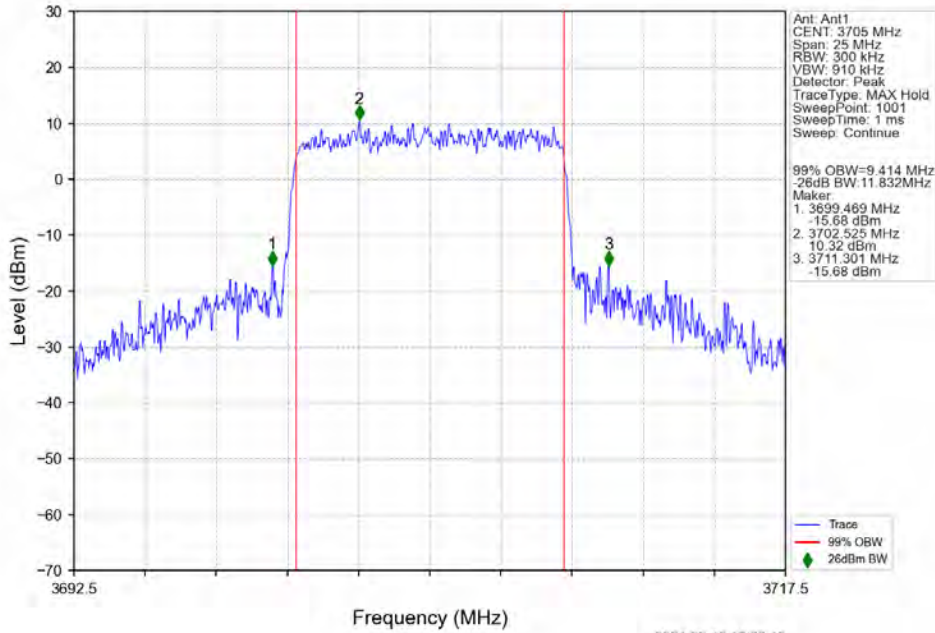
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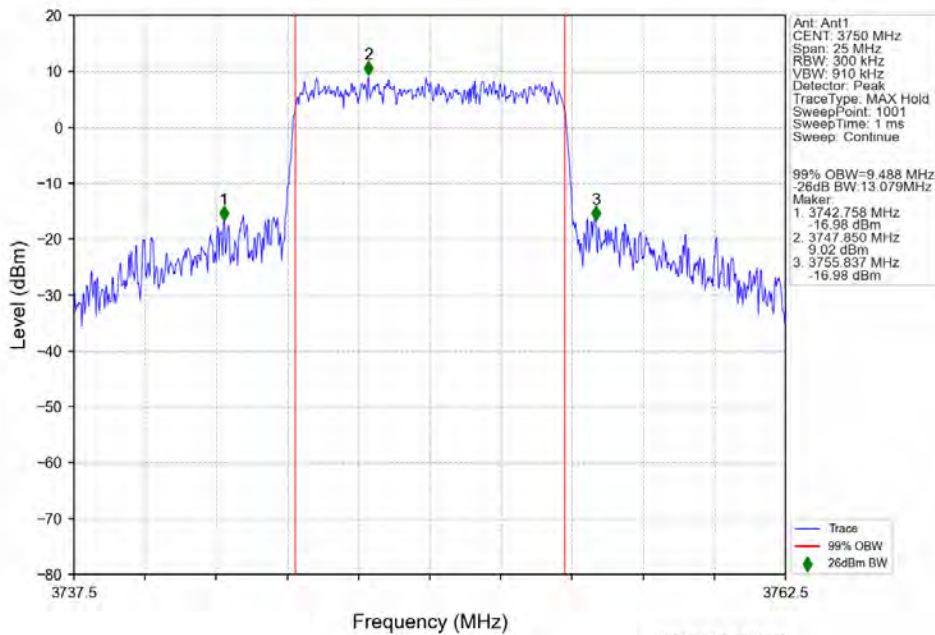
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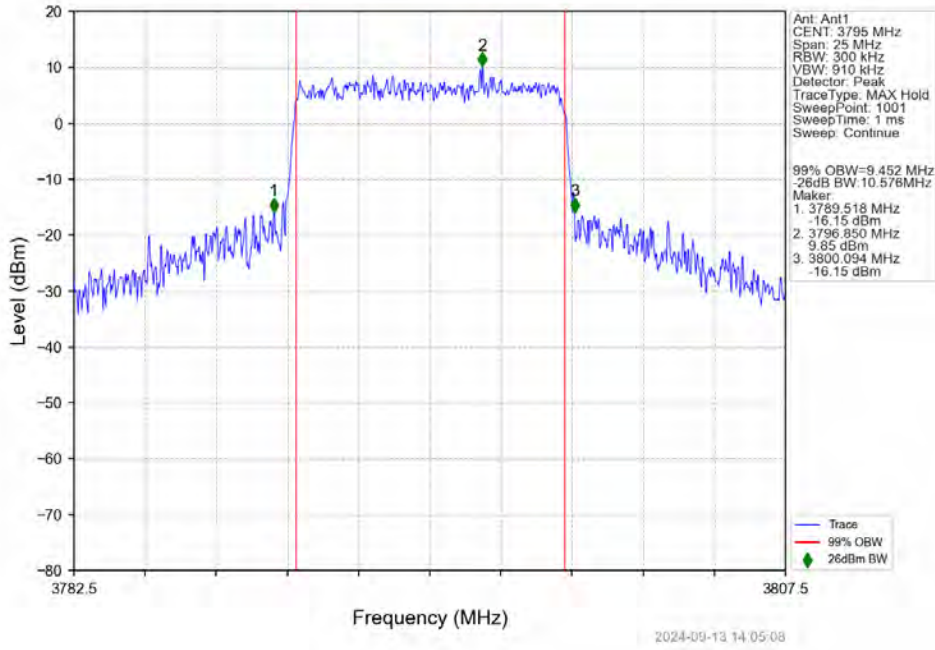
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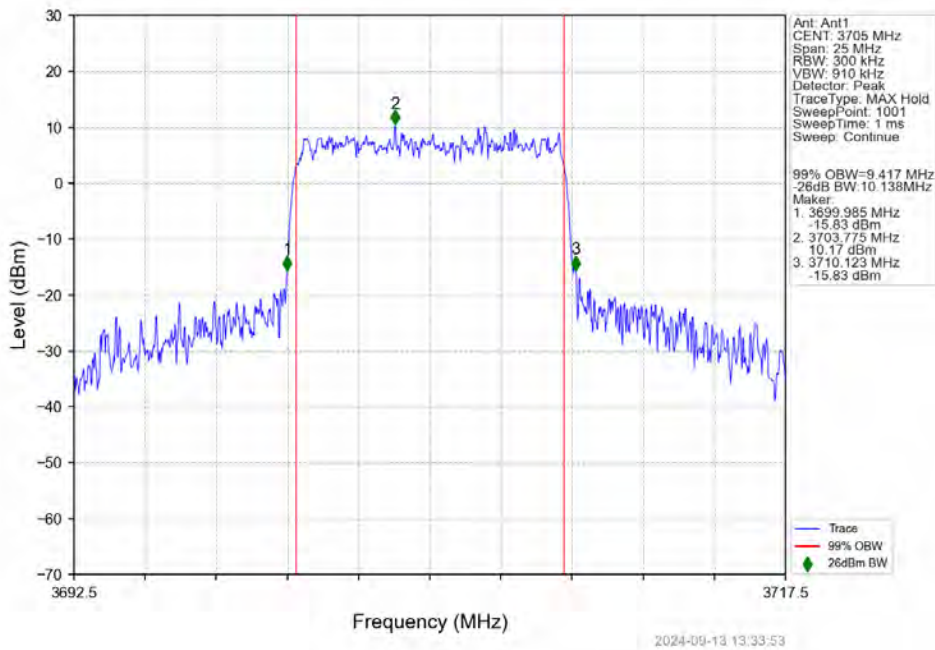
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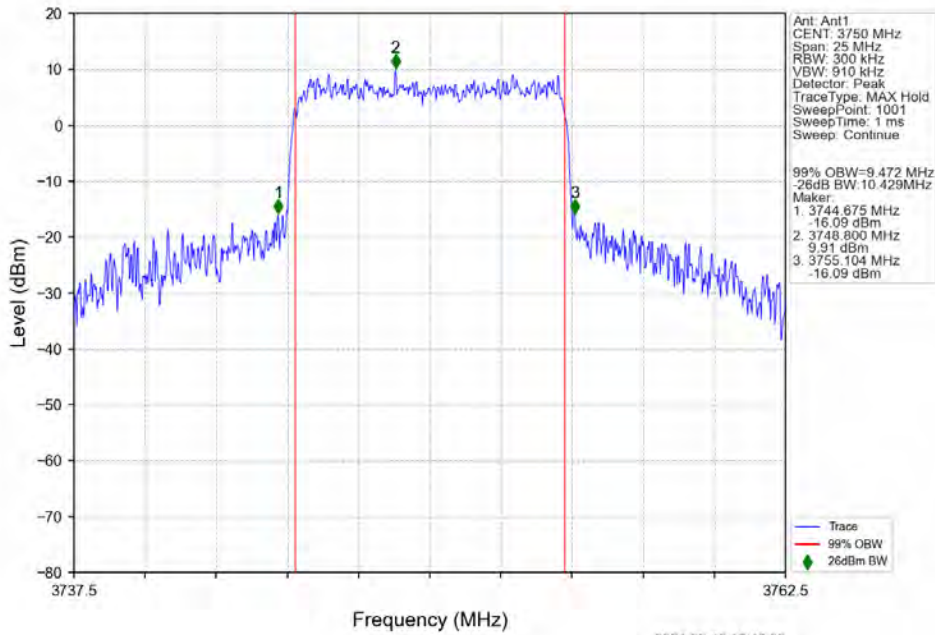
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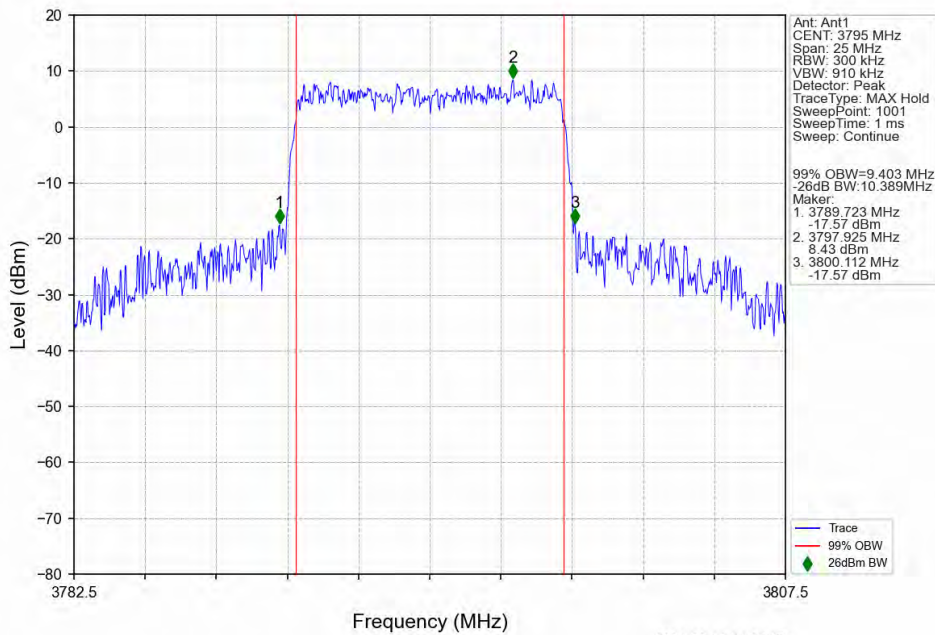
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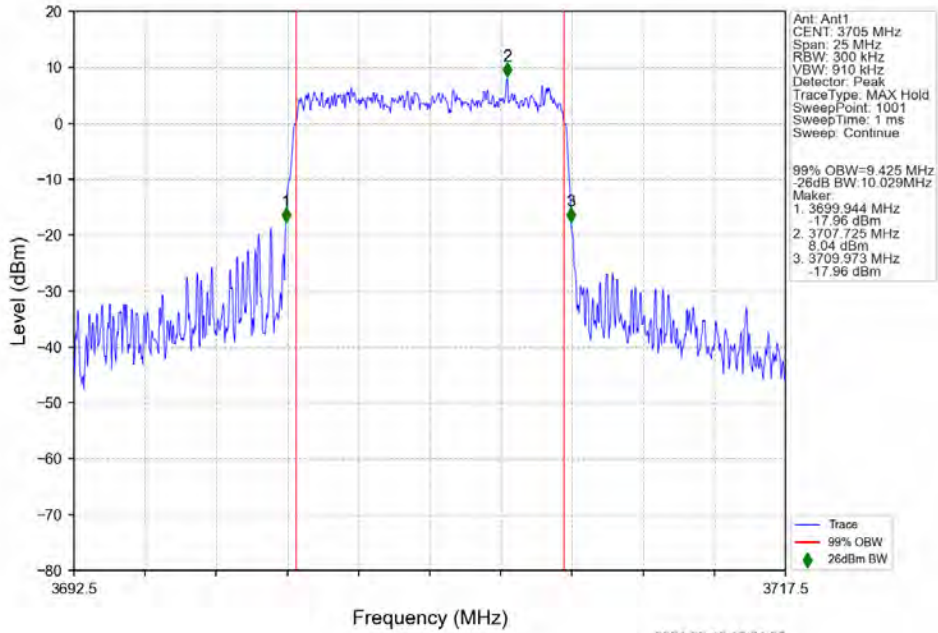
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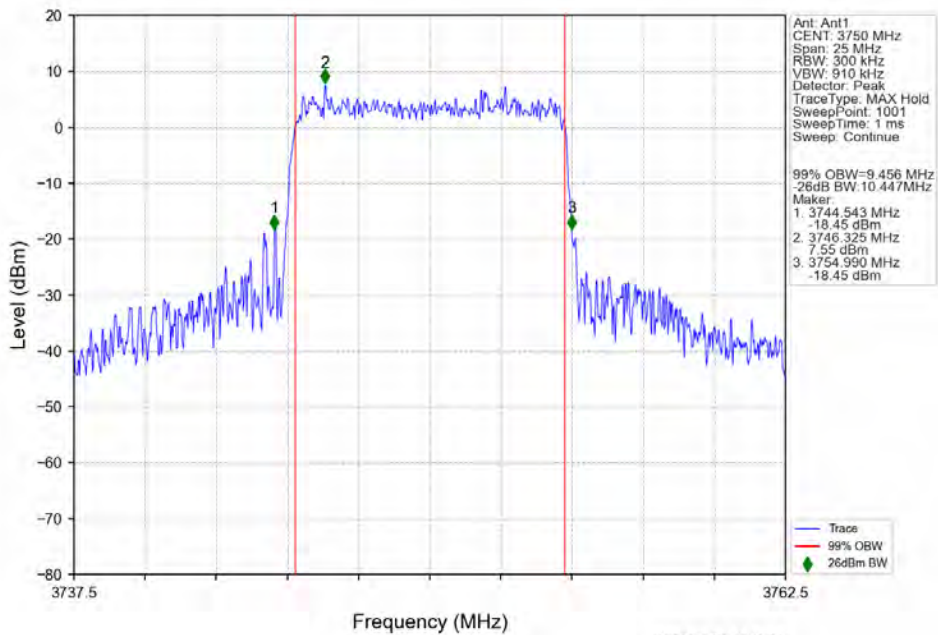
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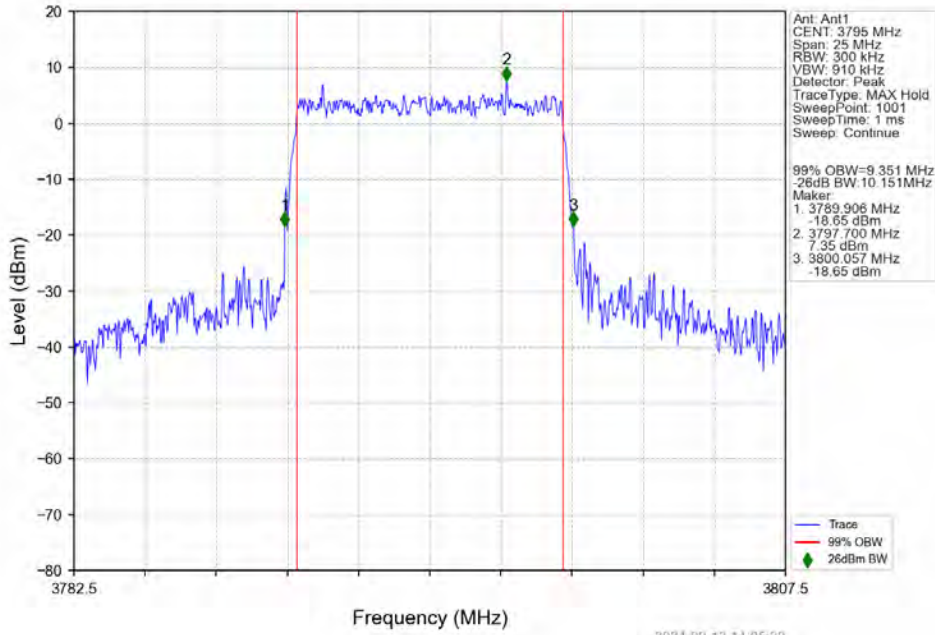


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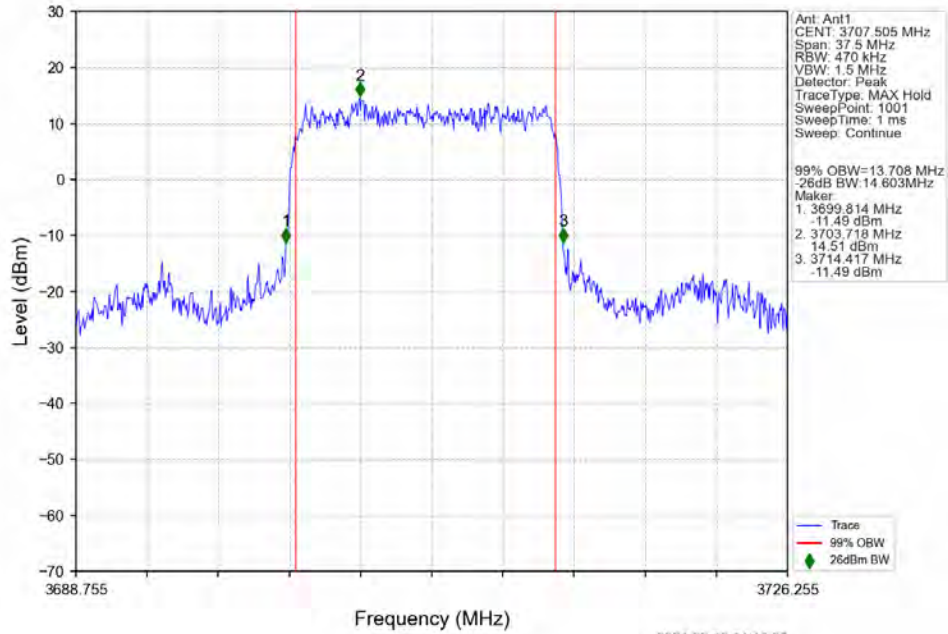
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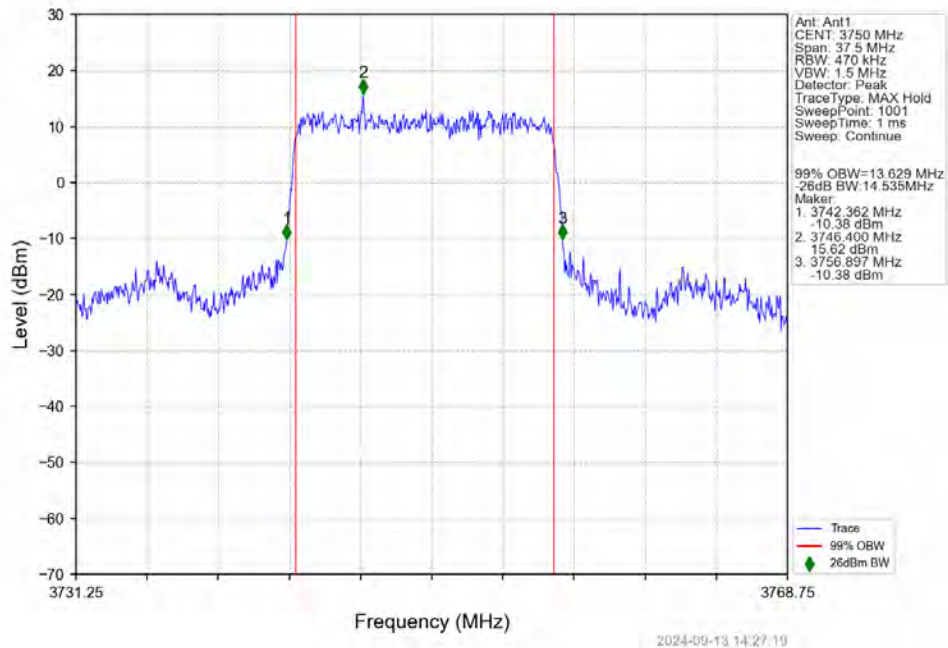
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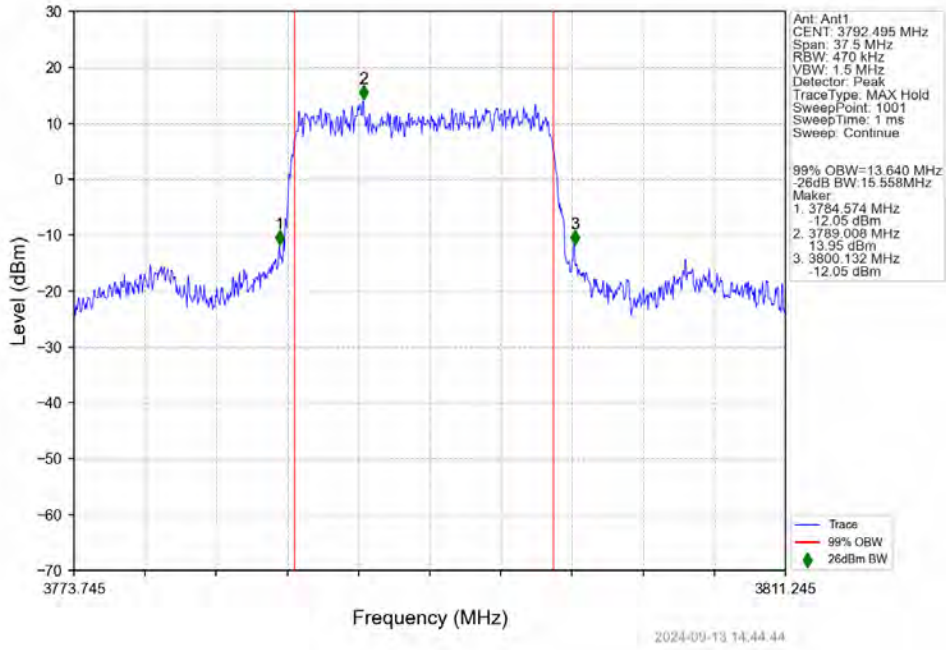
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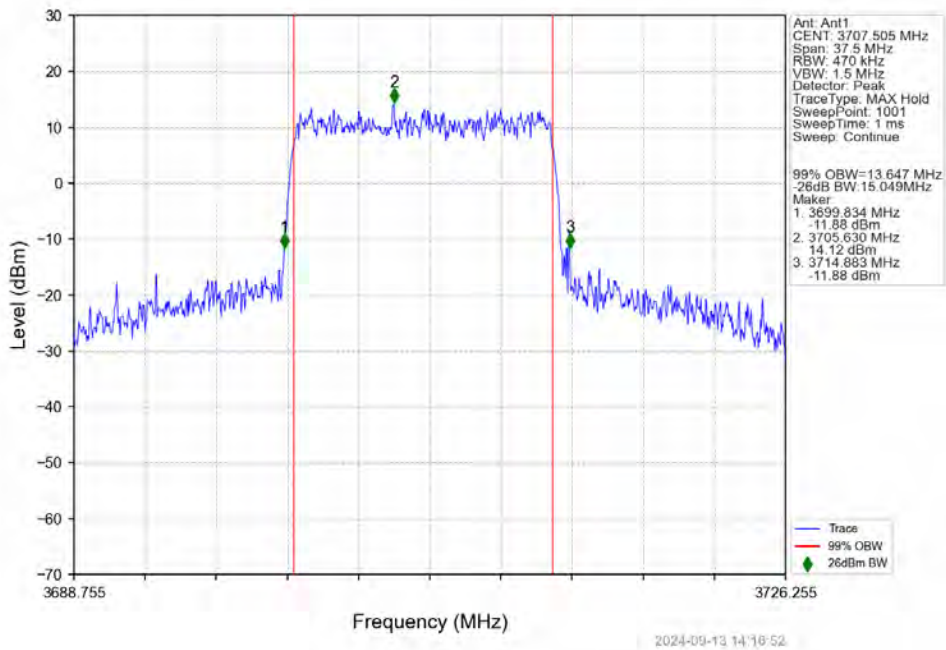
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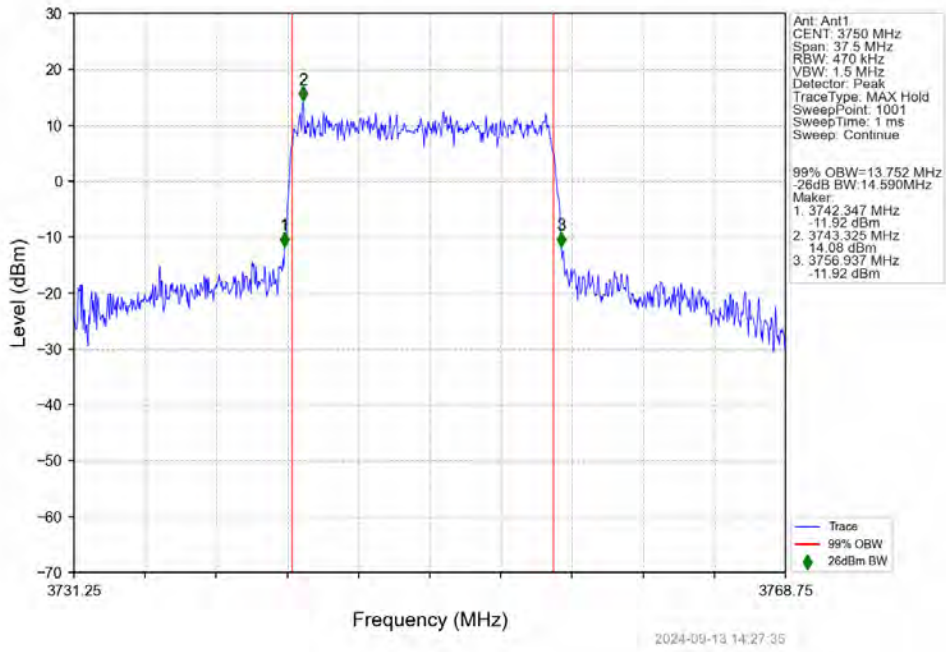
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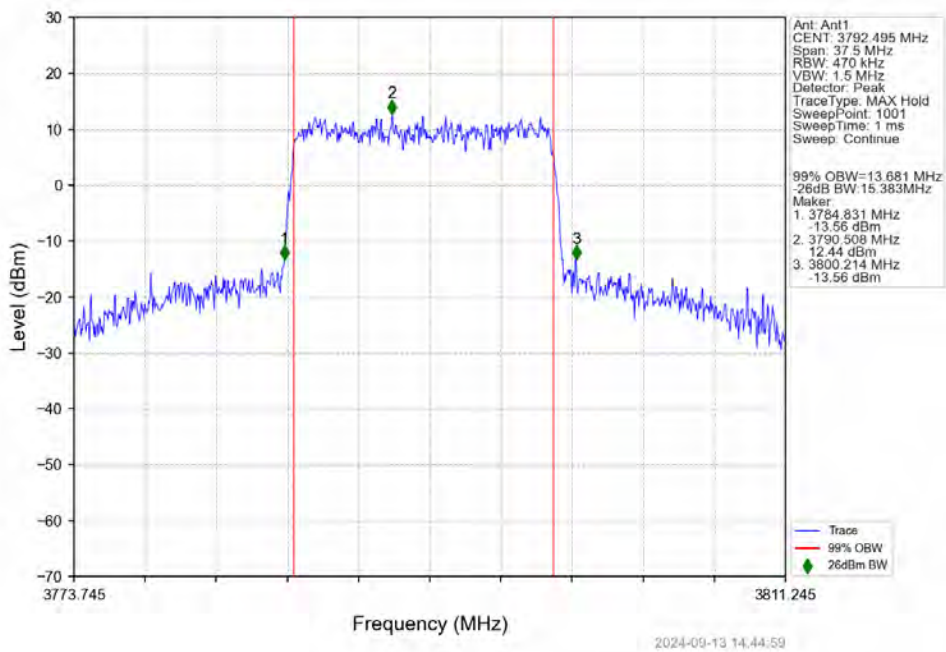
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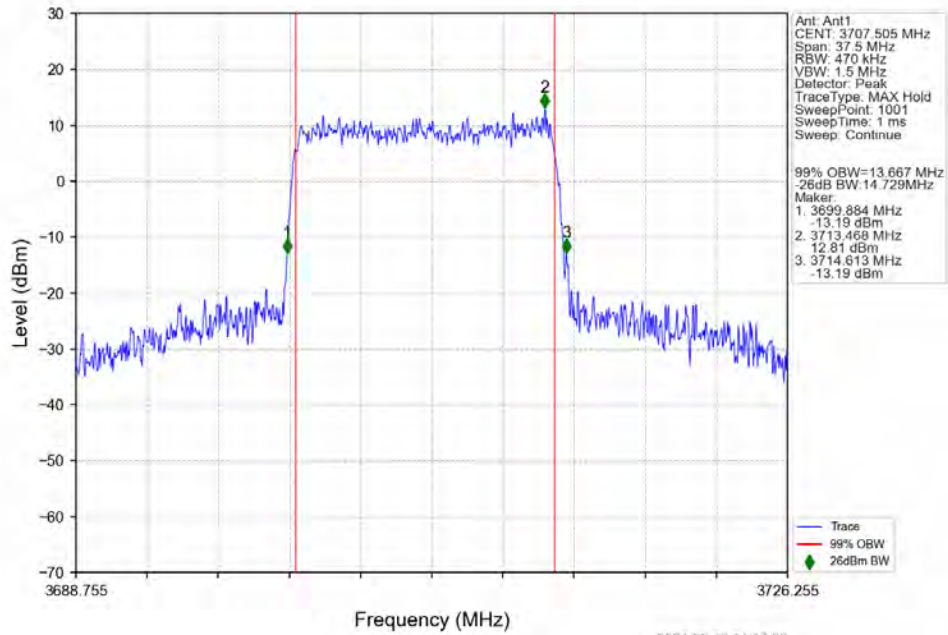
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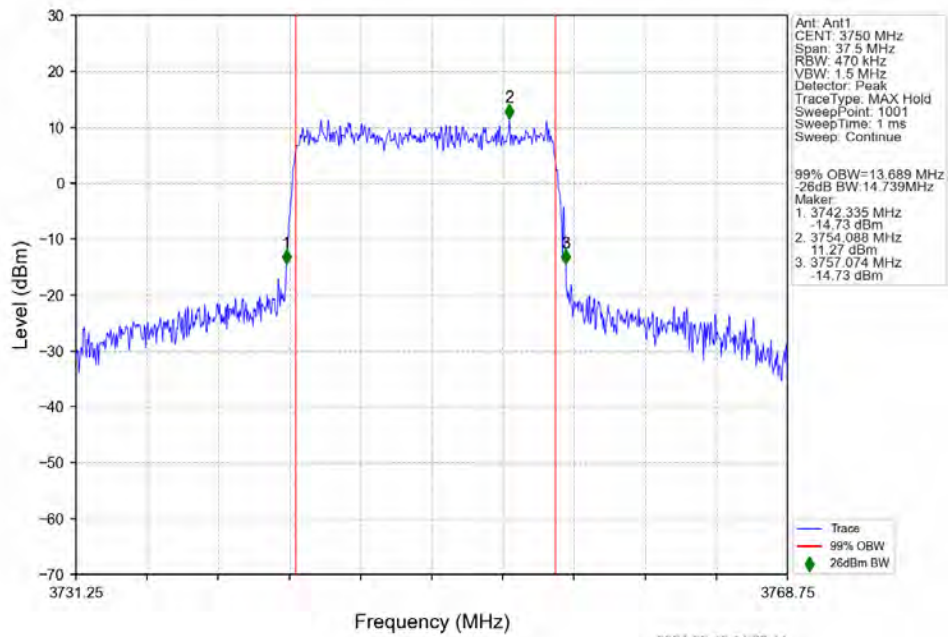
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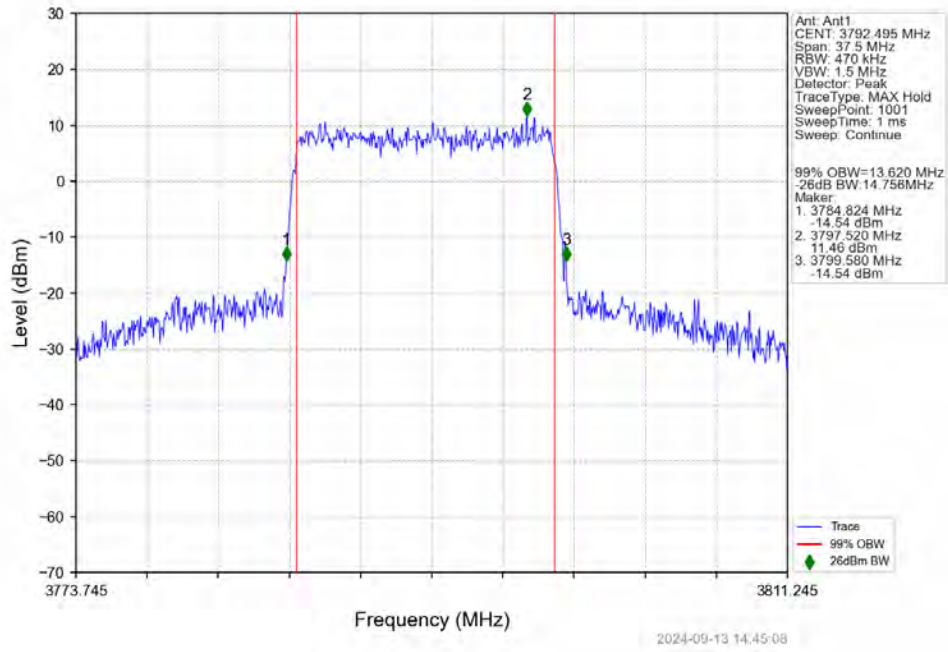
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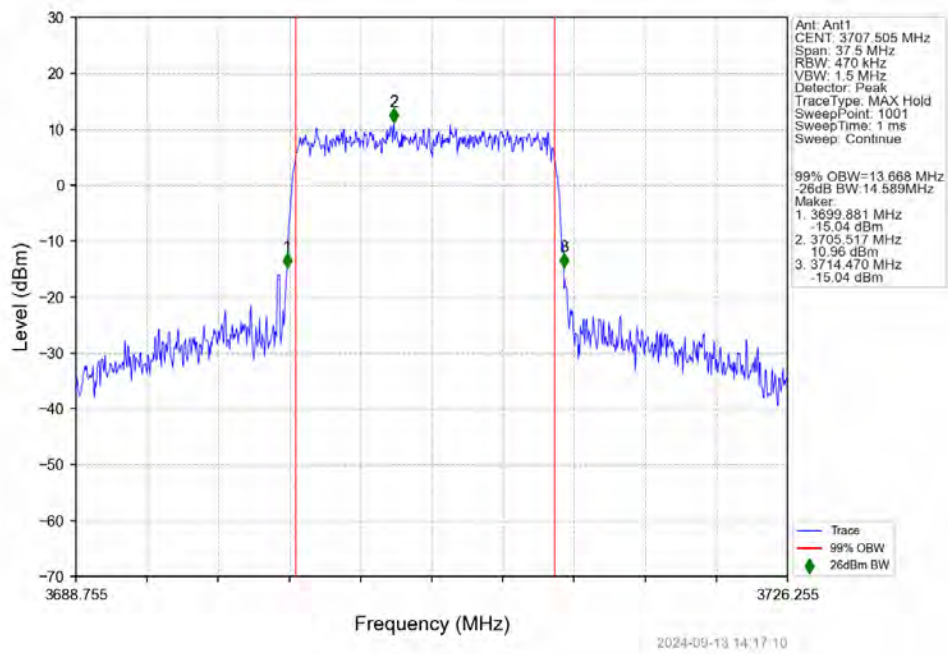
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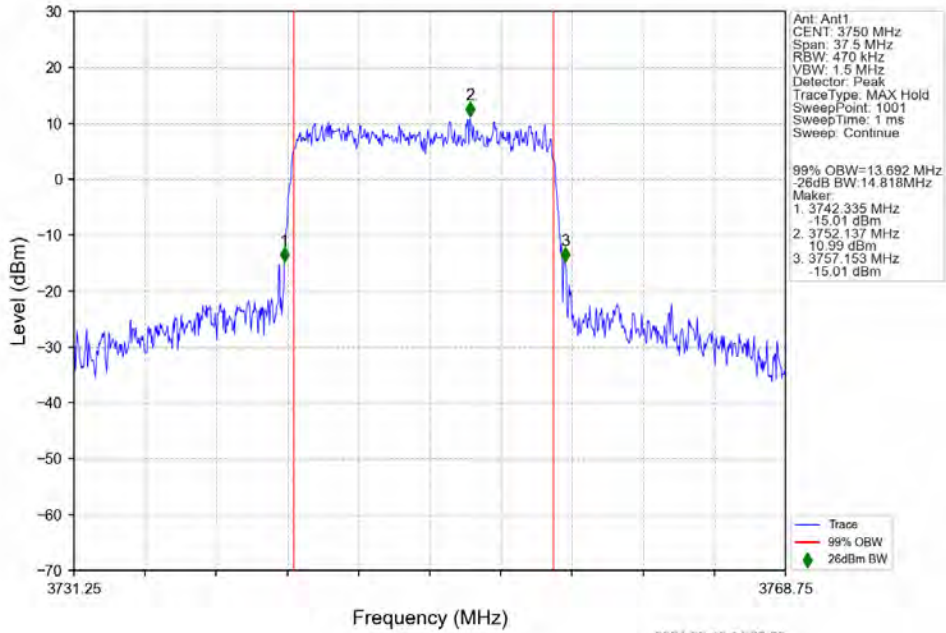
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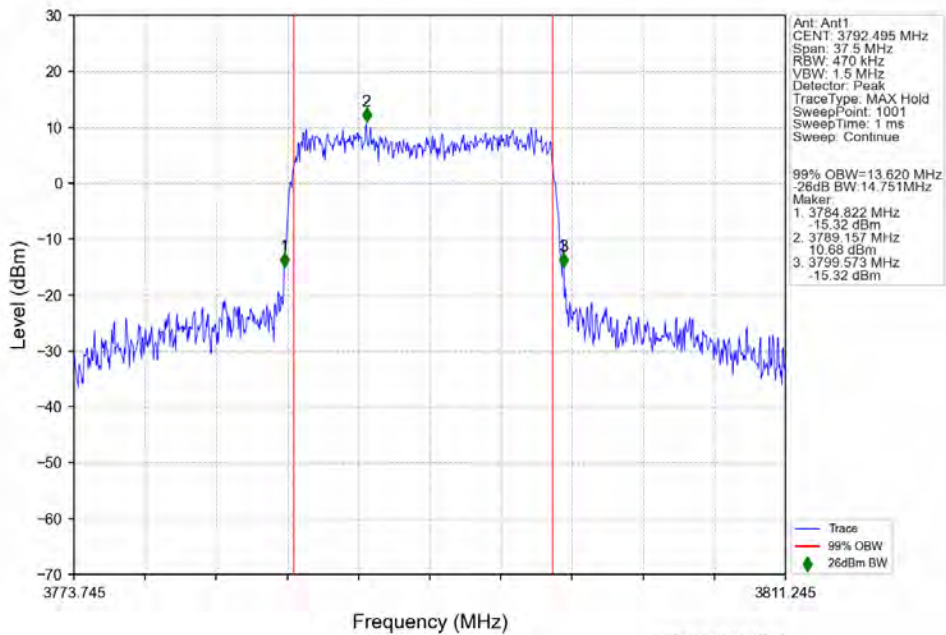
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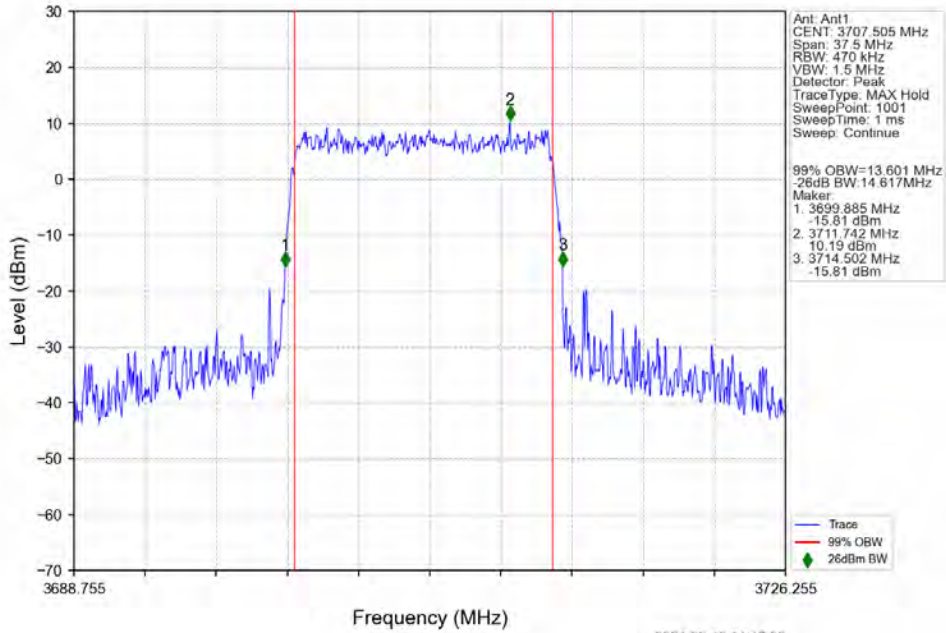
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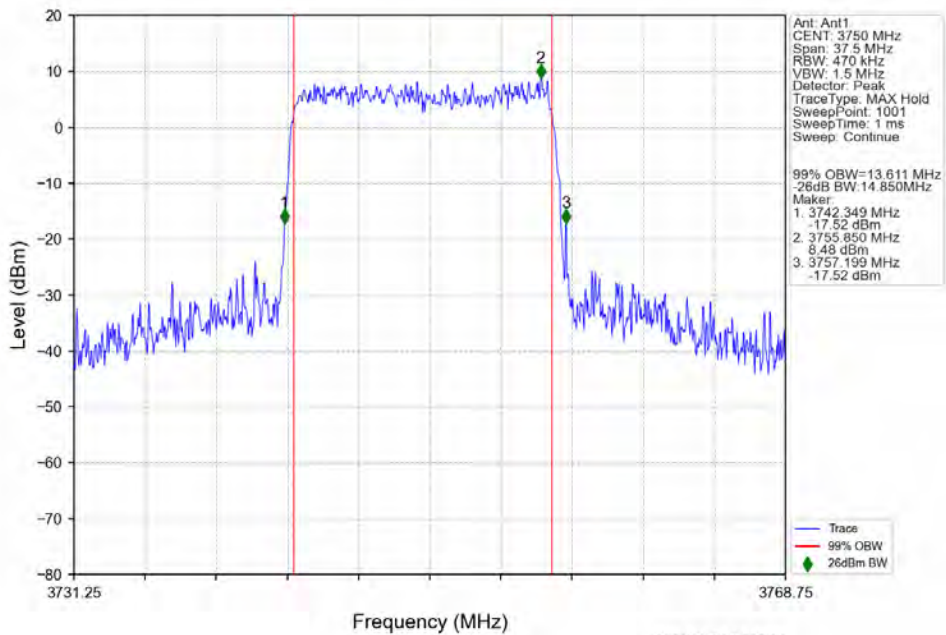
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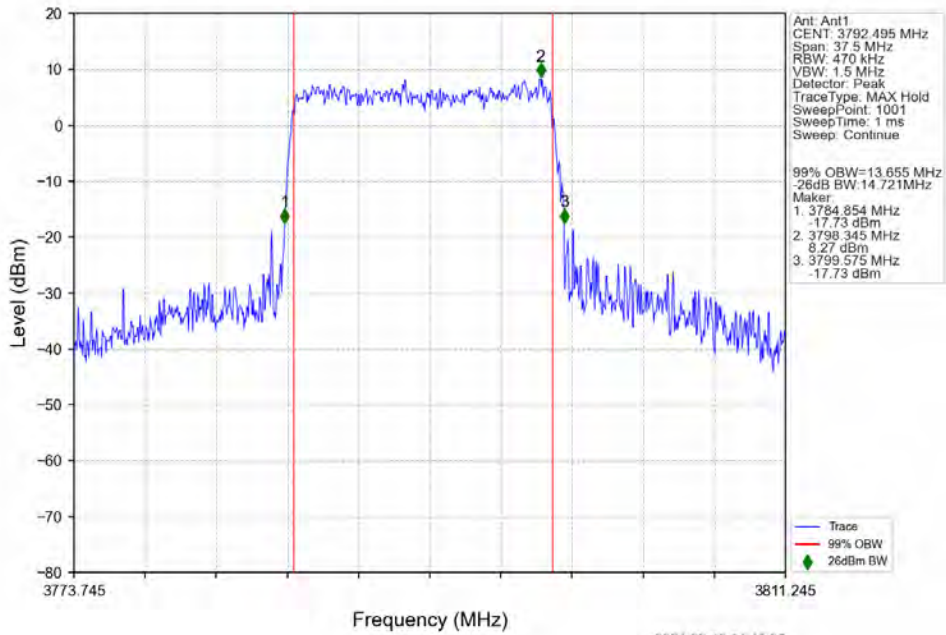


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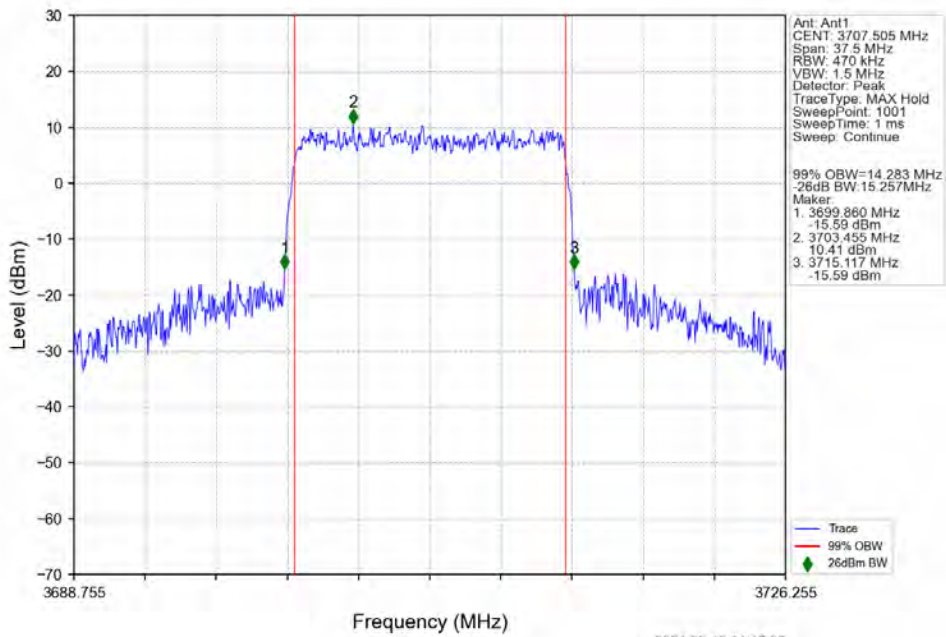




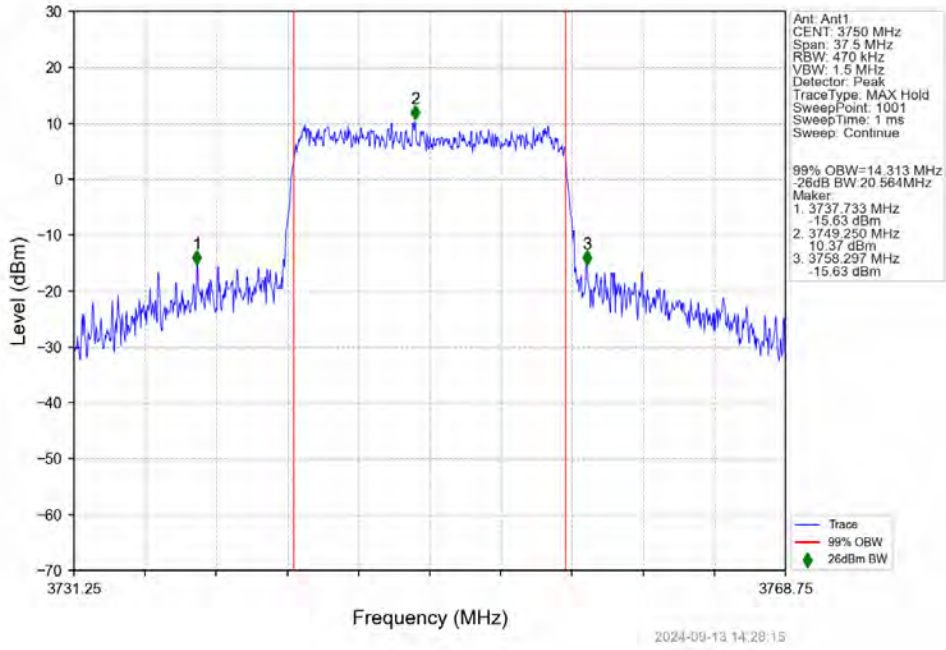
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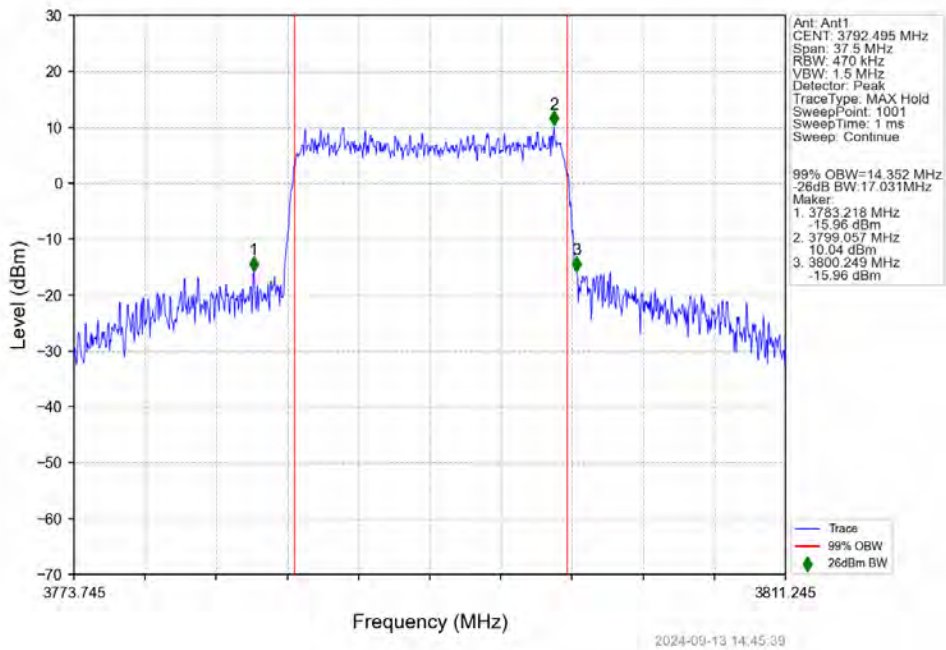
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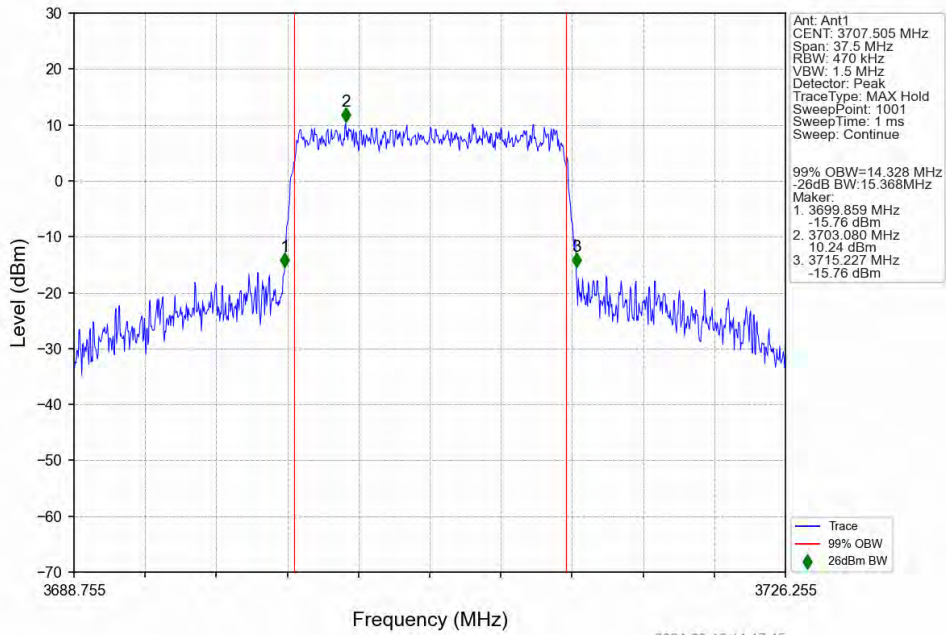
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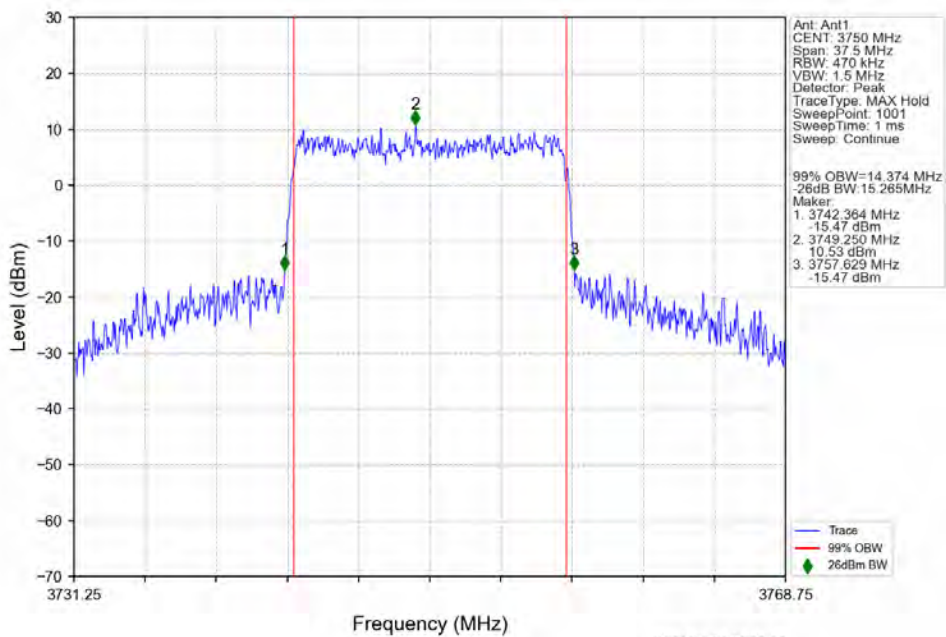
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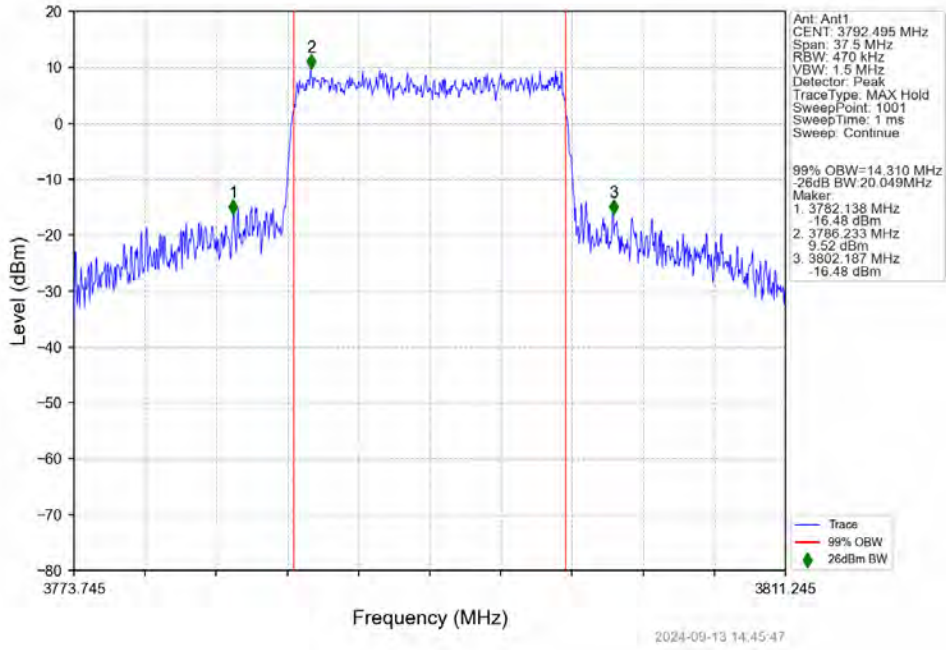
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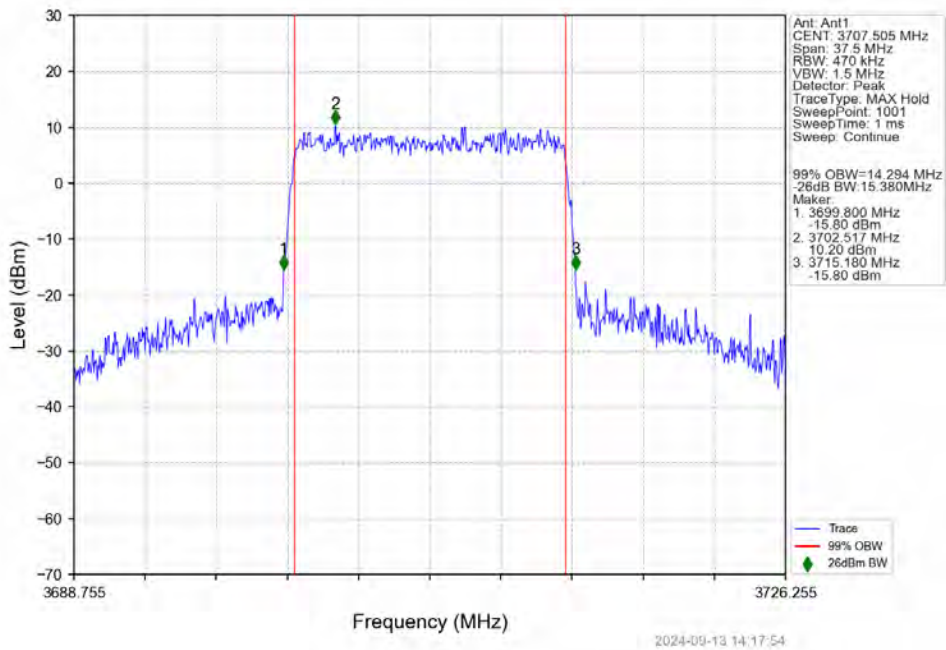
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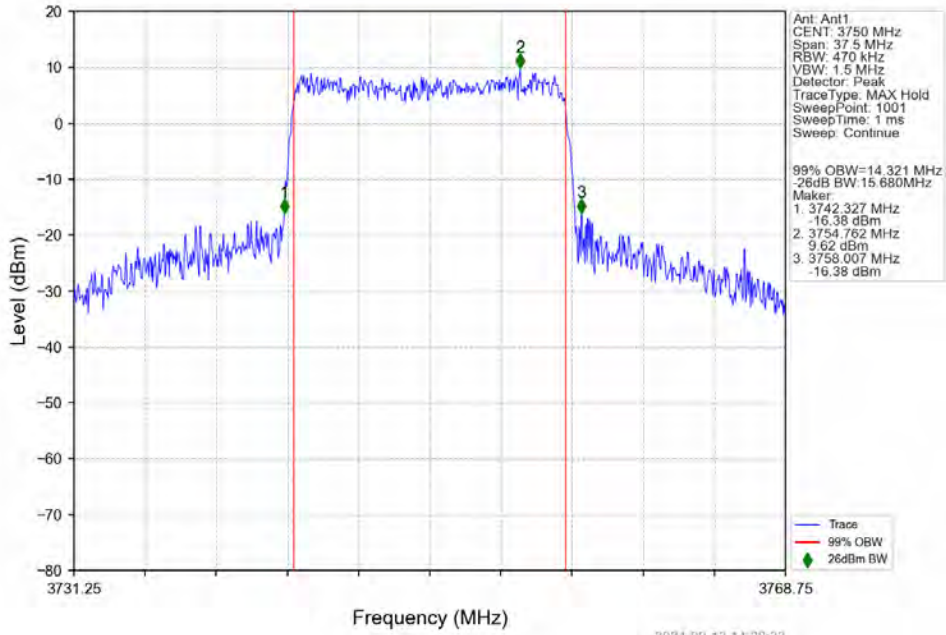
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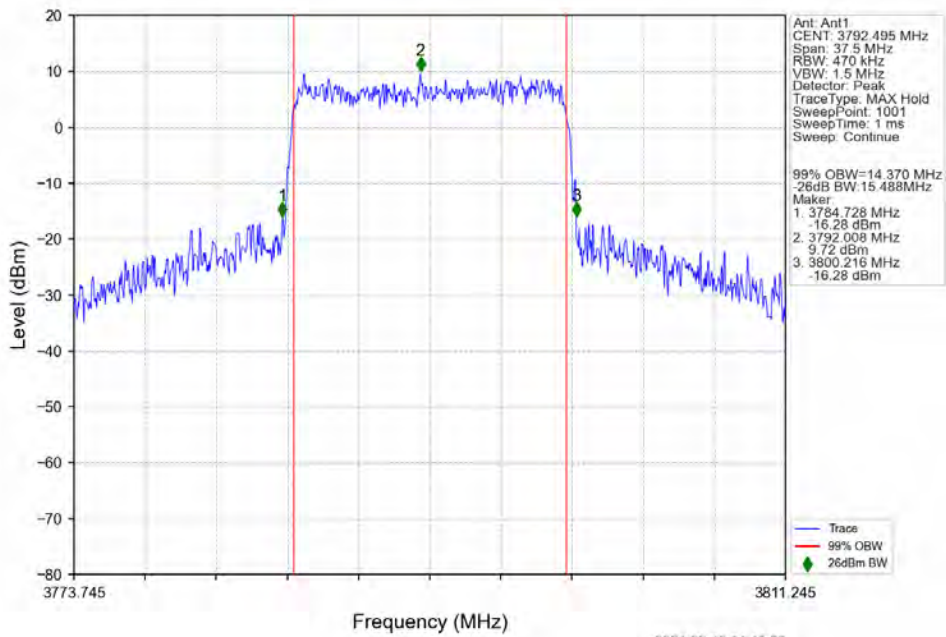
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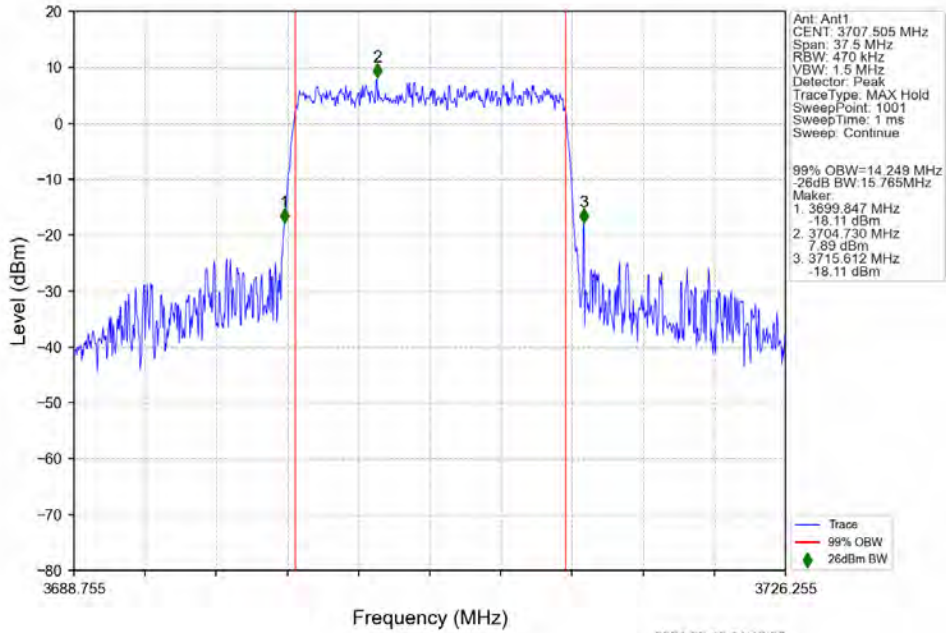
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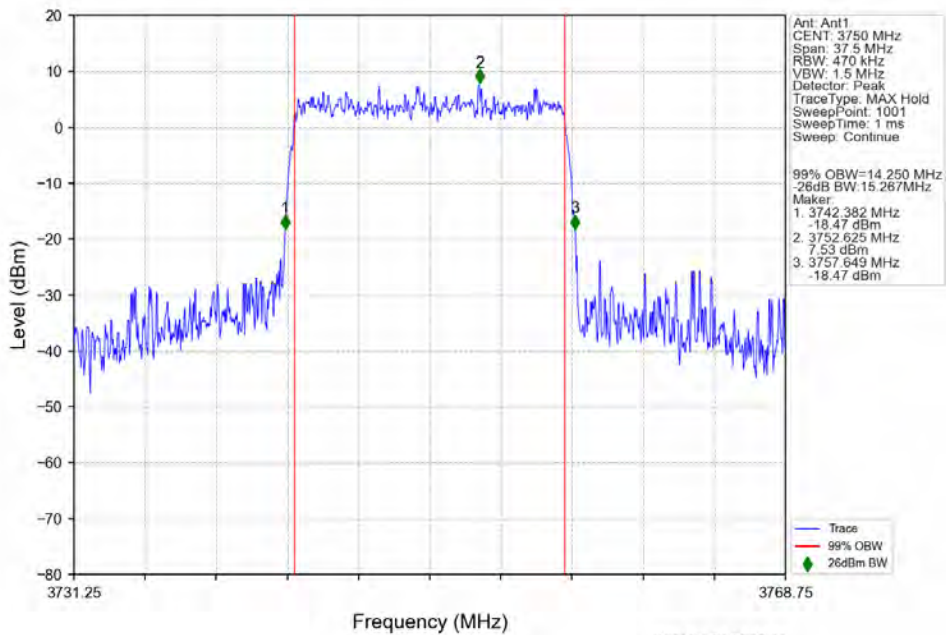
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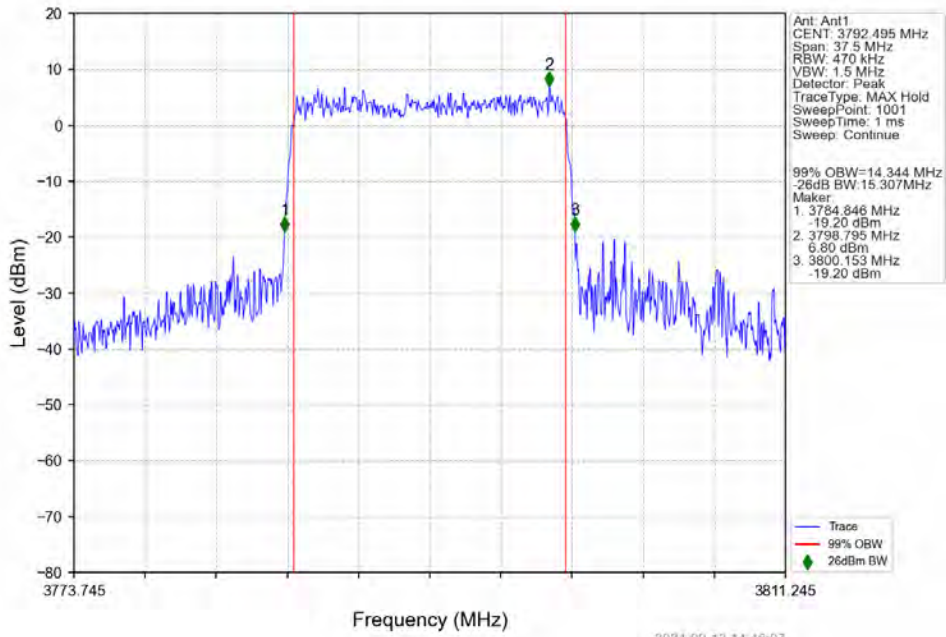
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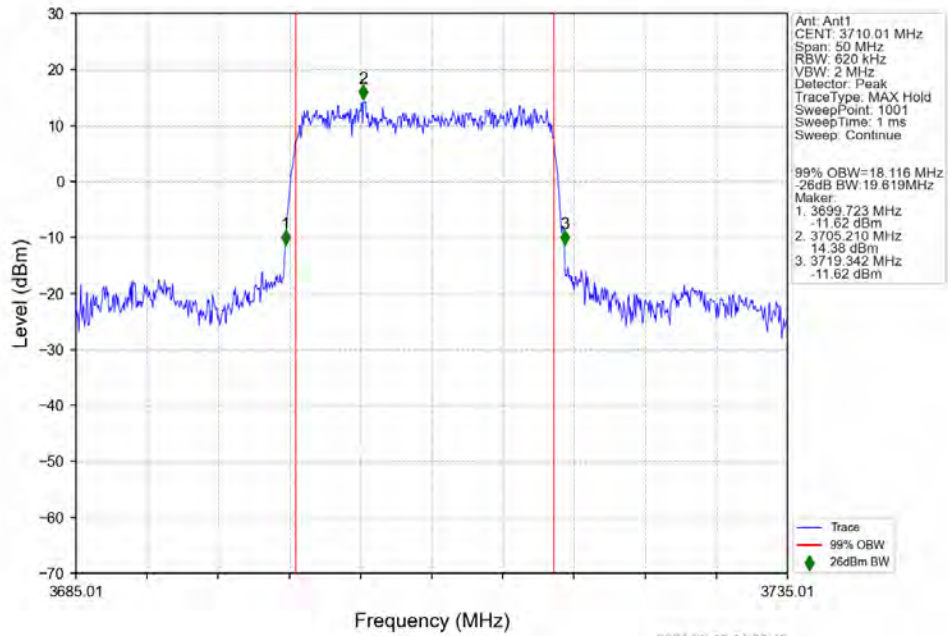
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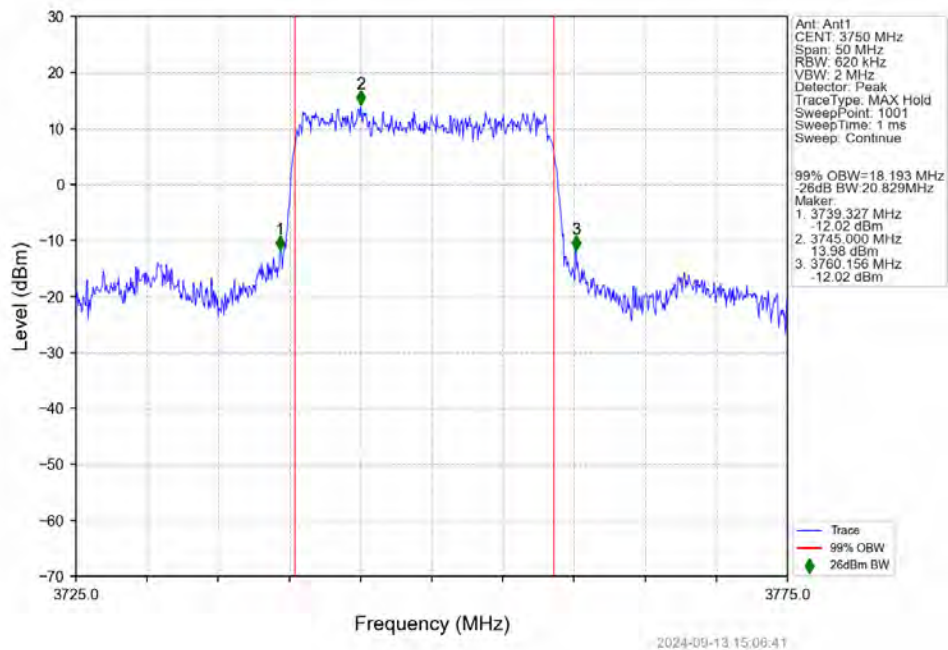
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4.2.3 15k\_SISO\_20MHz\_NTNV

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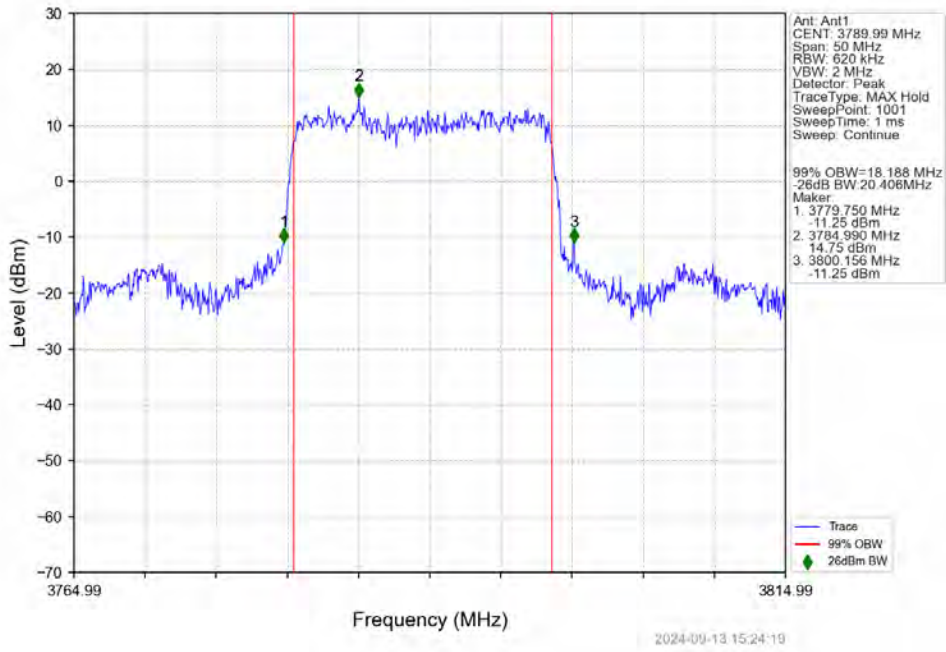


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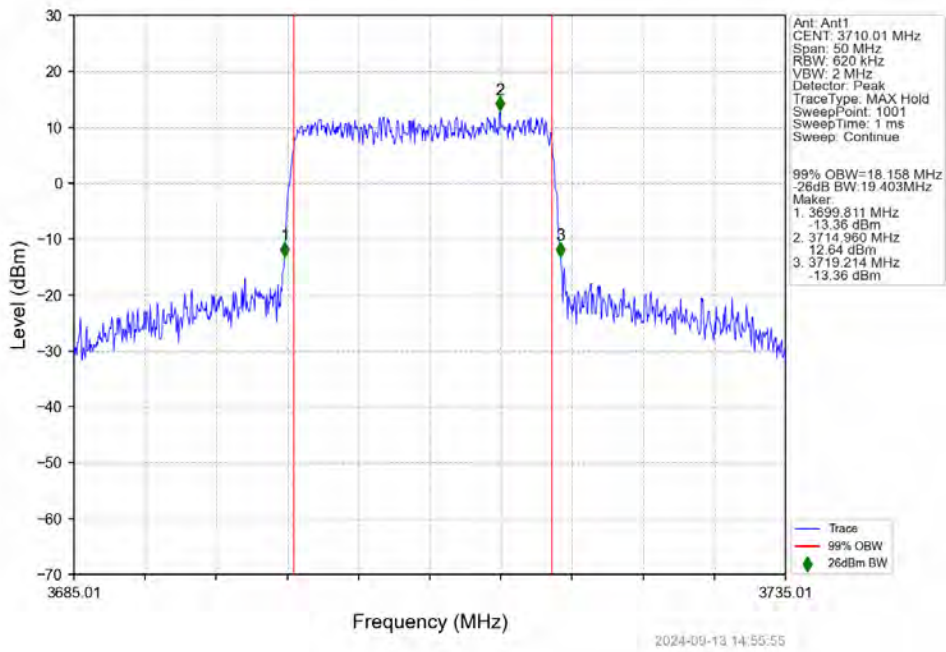




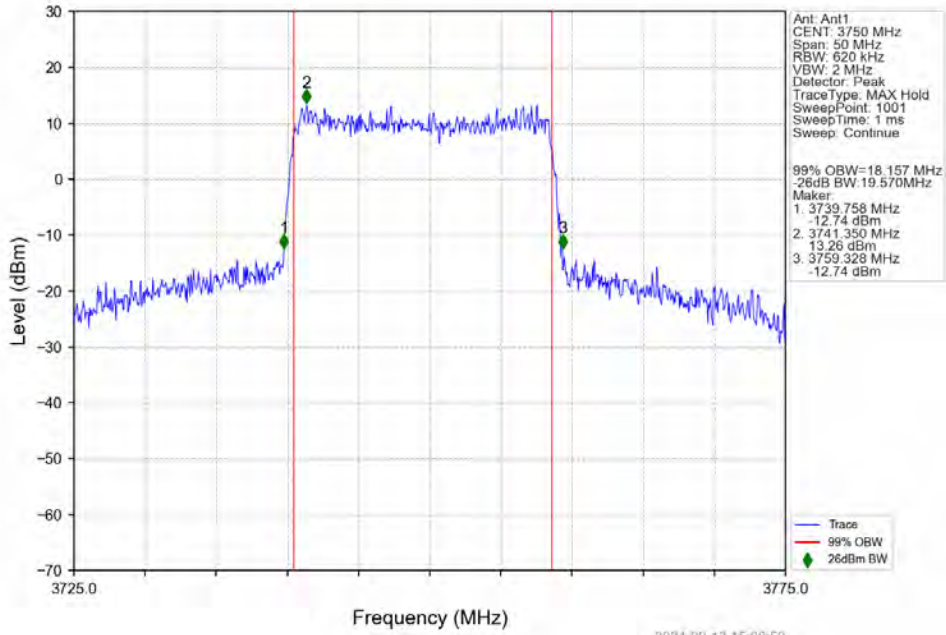
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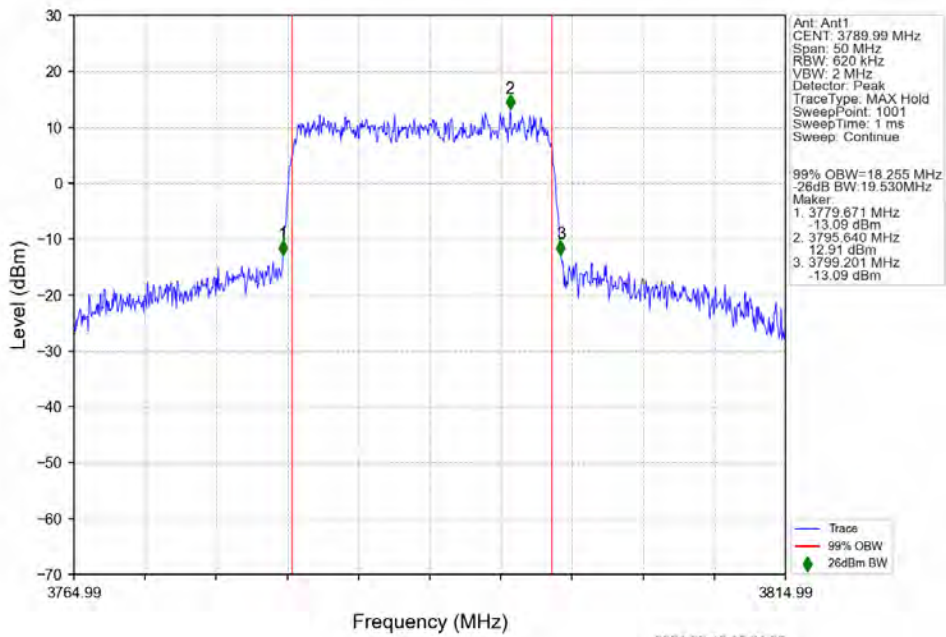
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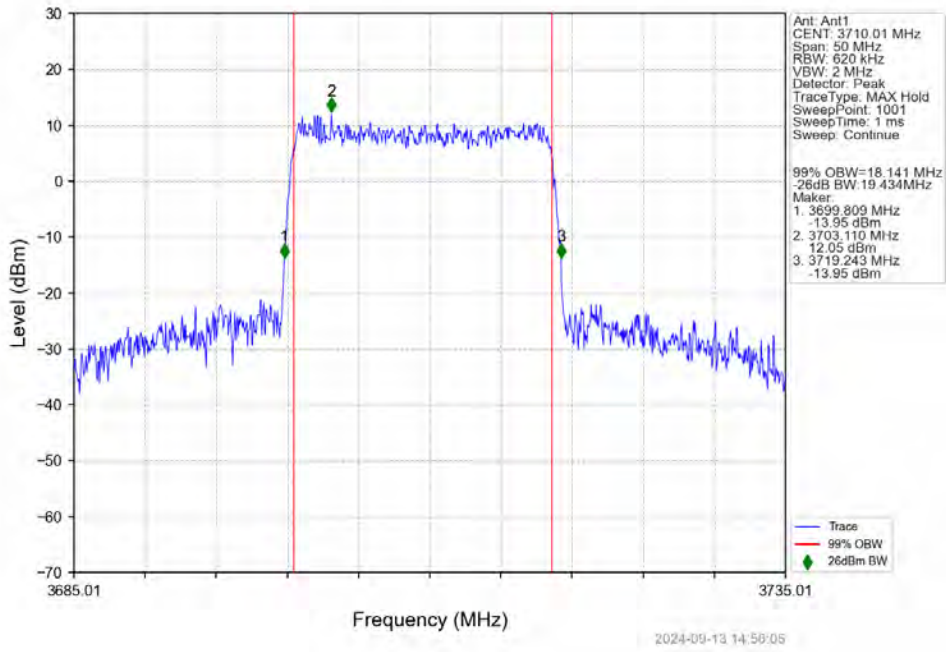
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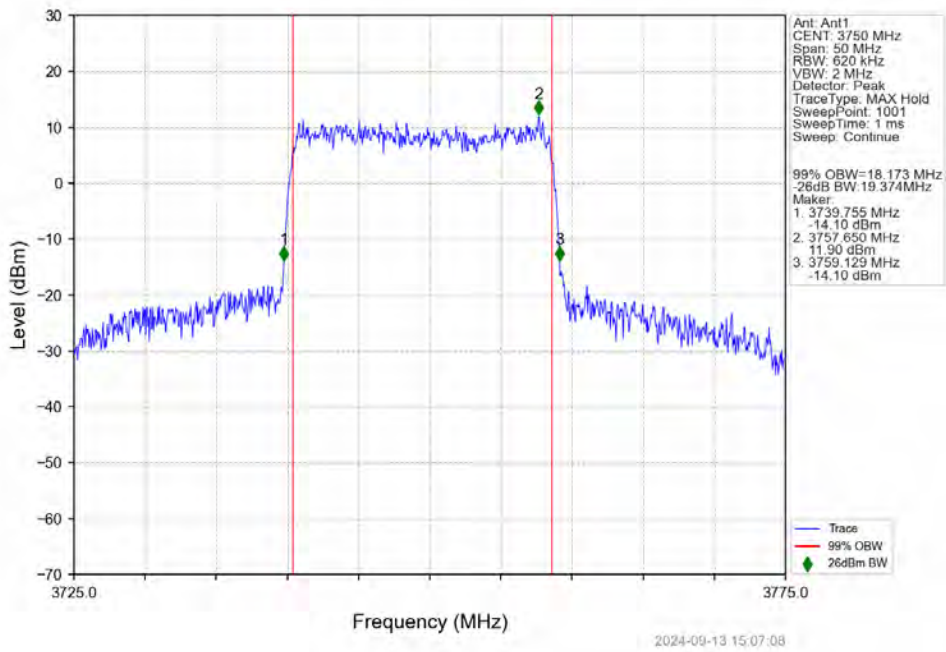
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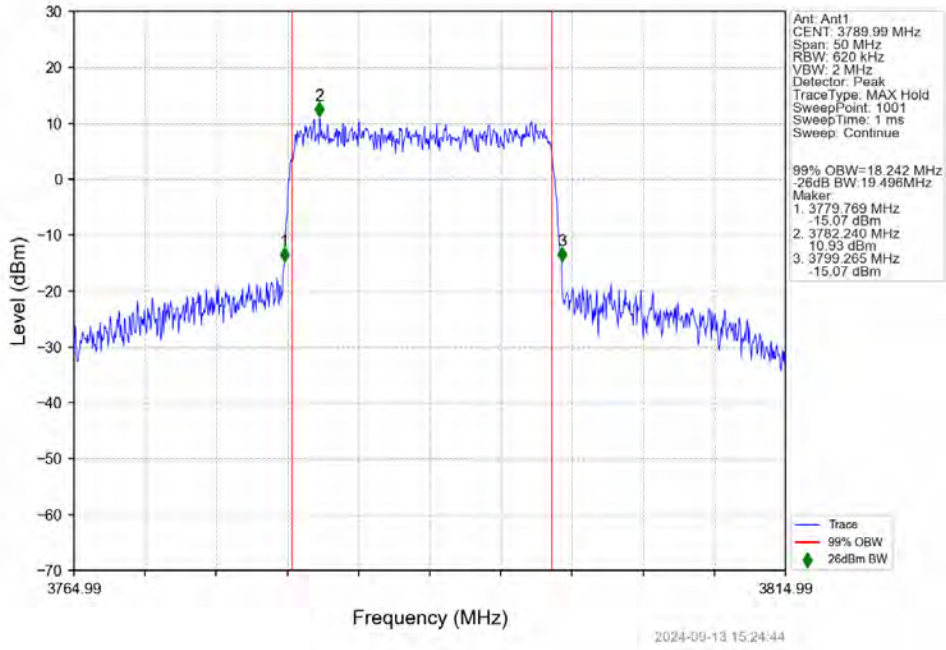
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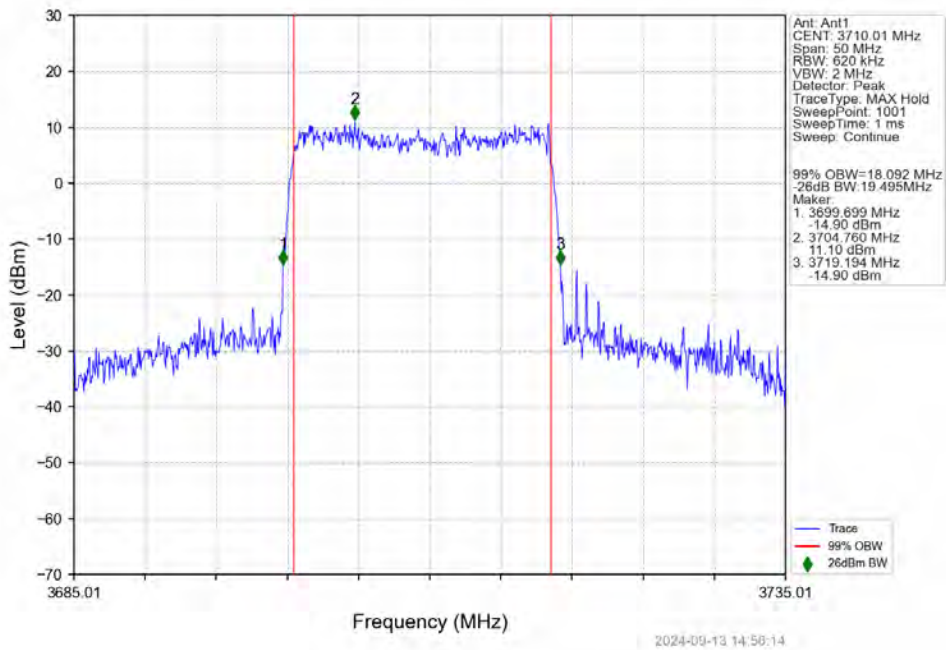
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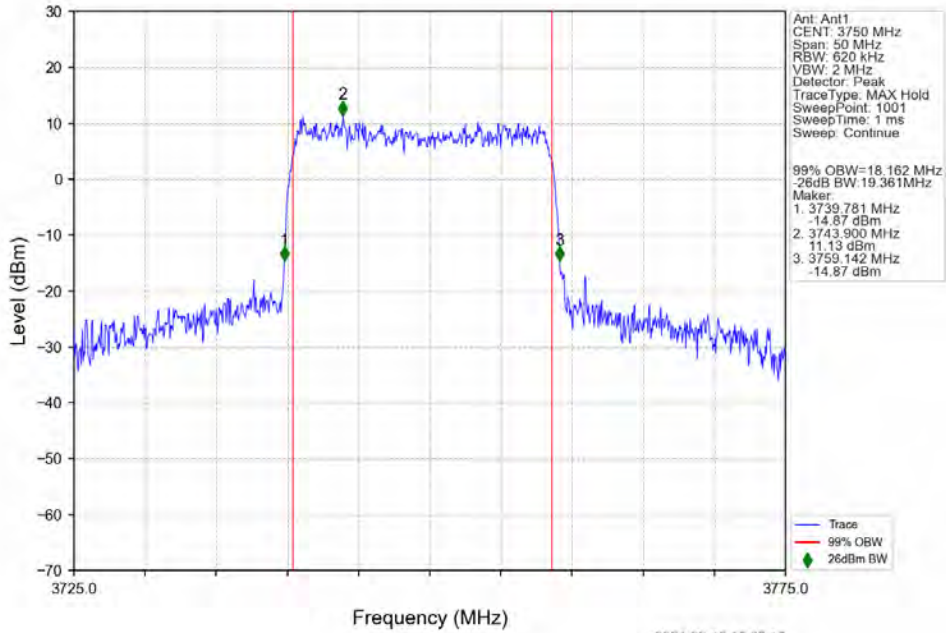
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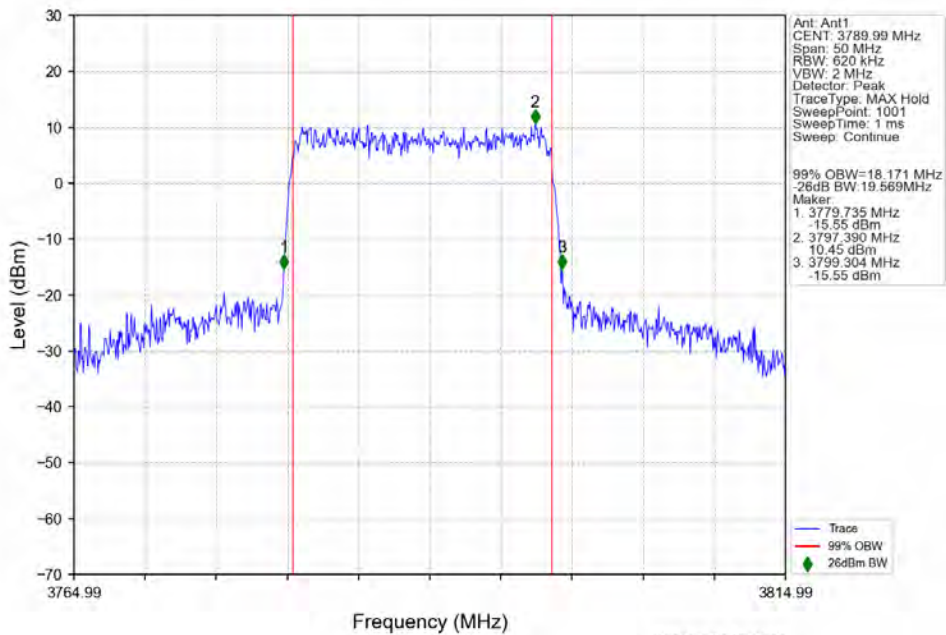
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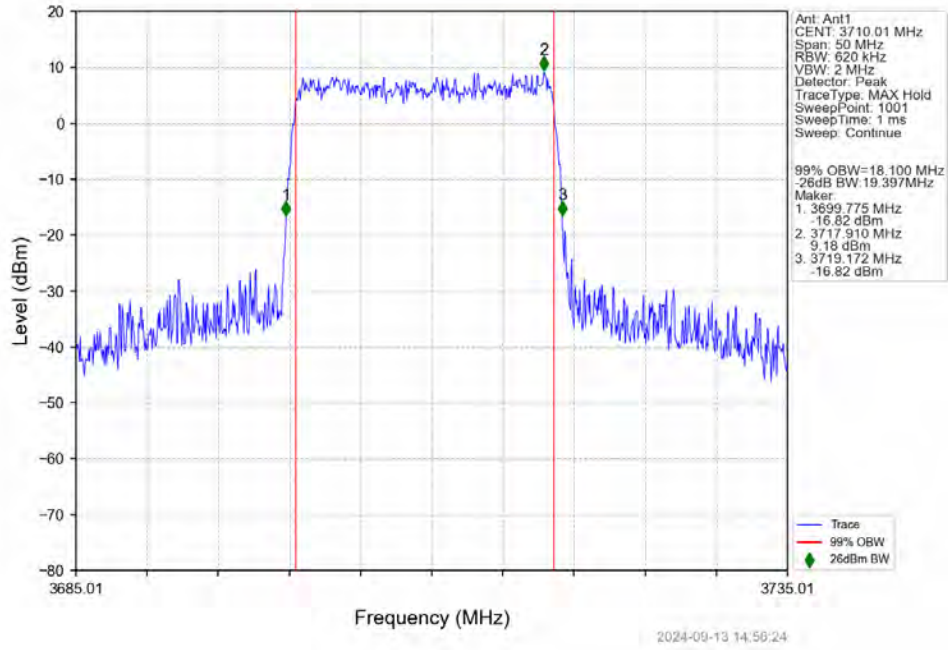
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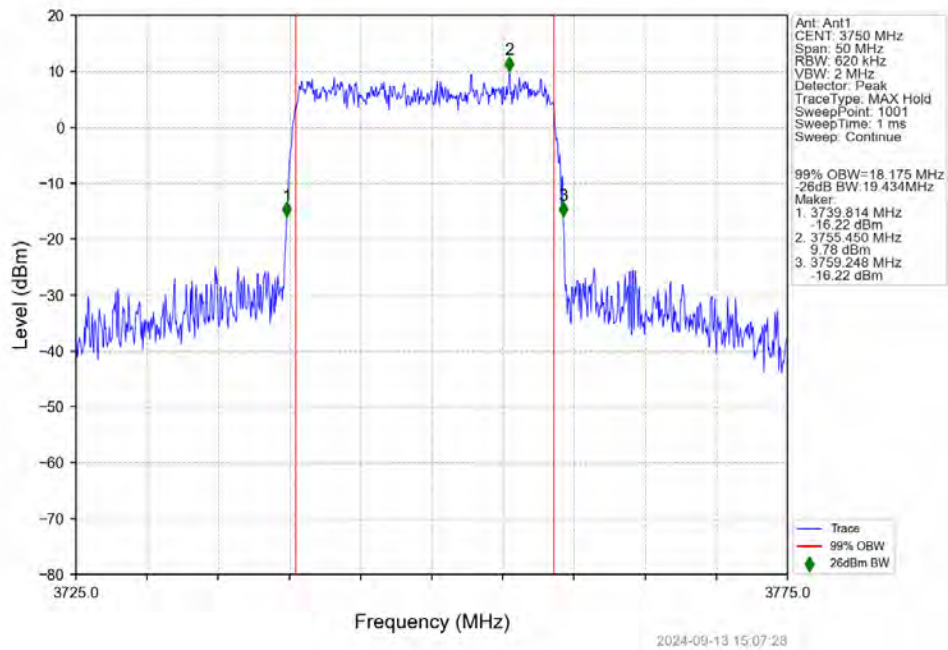
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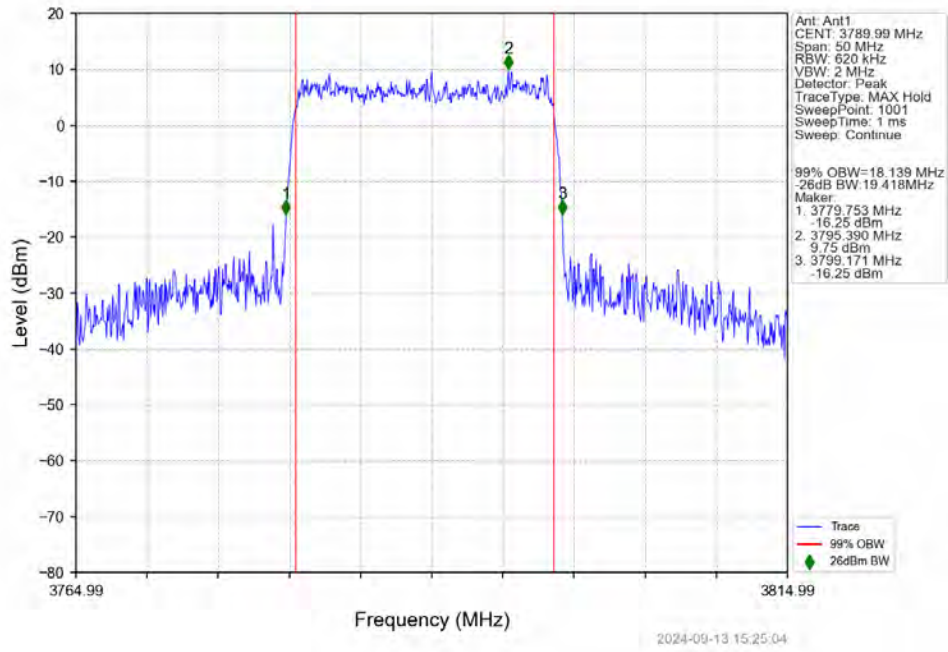
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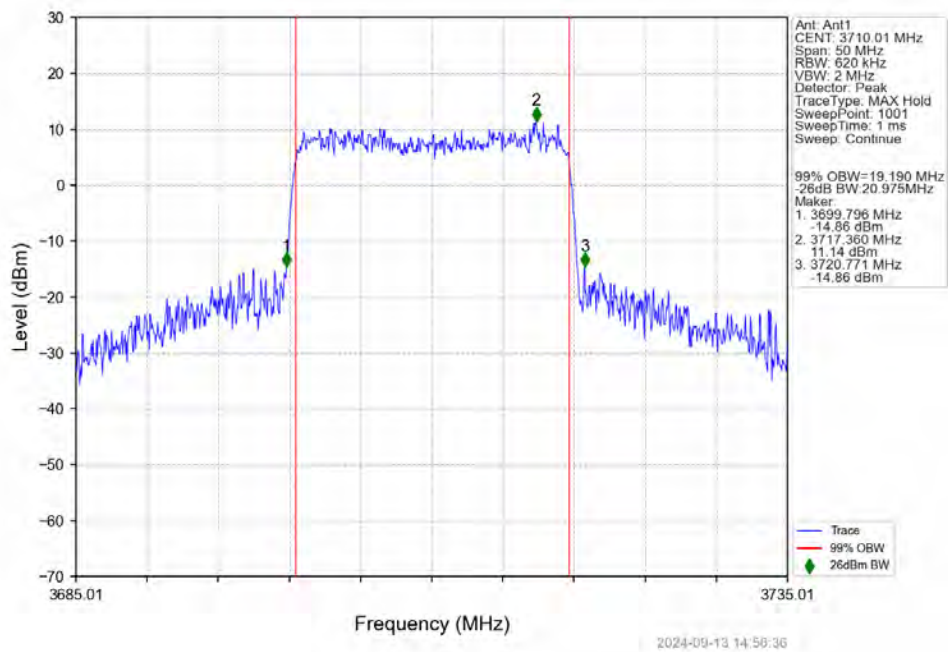
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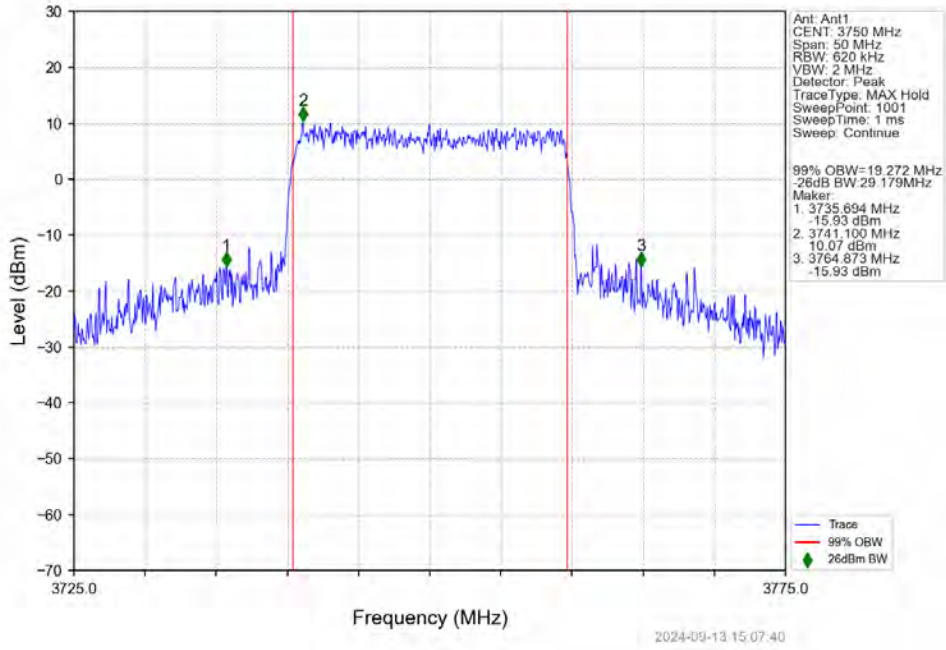
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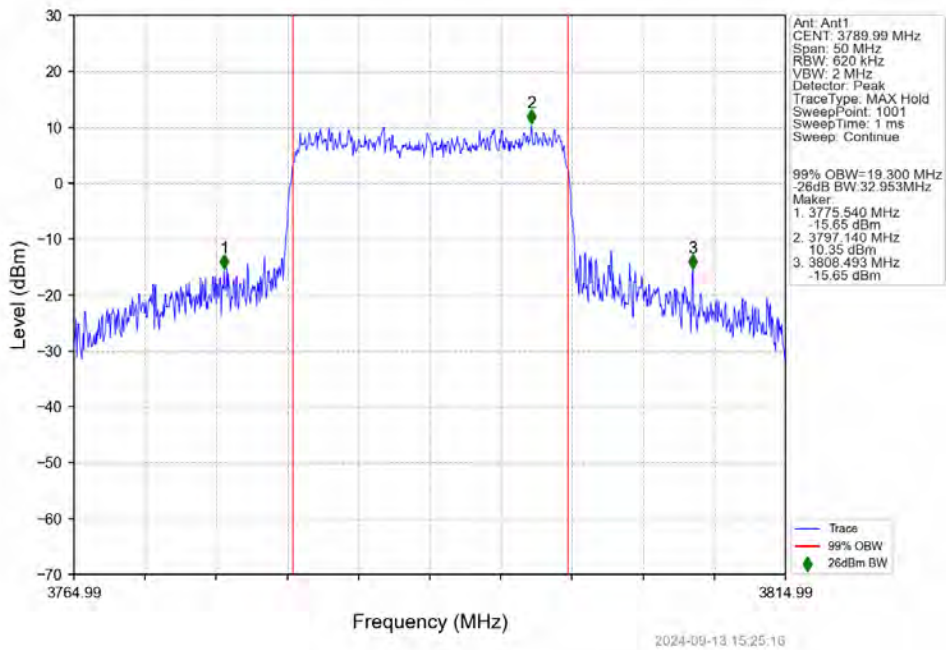
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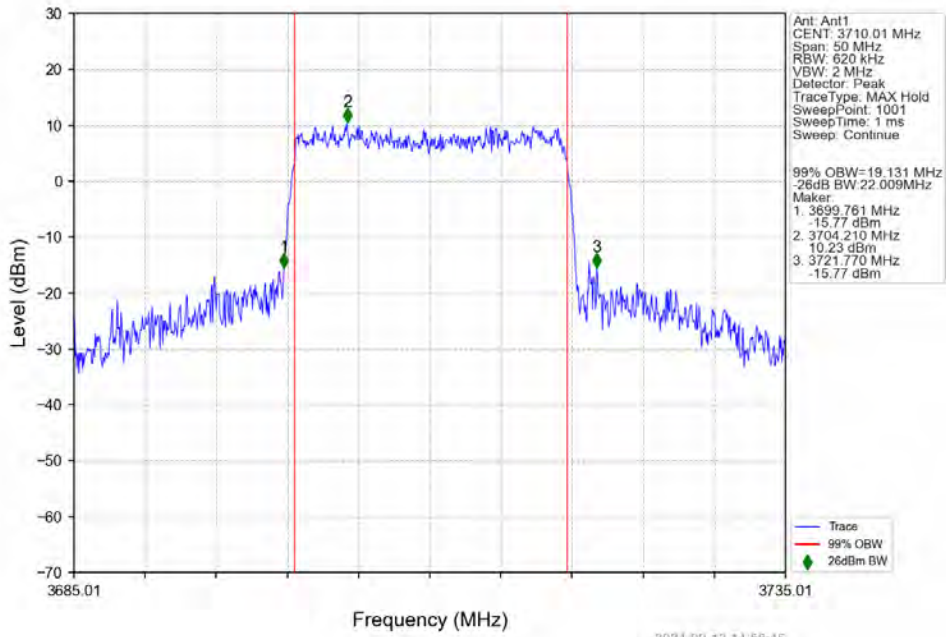


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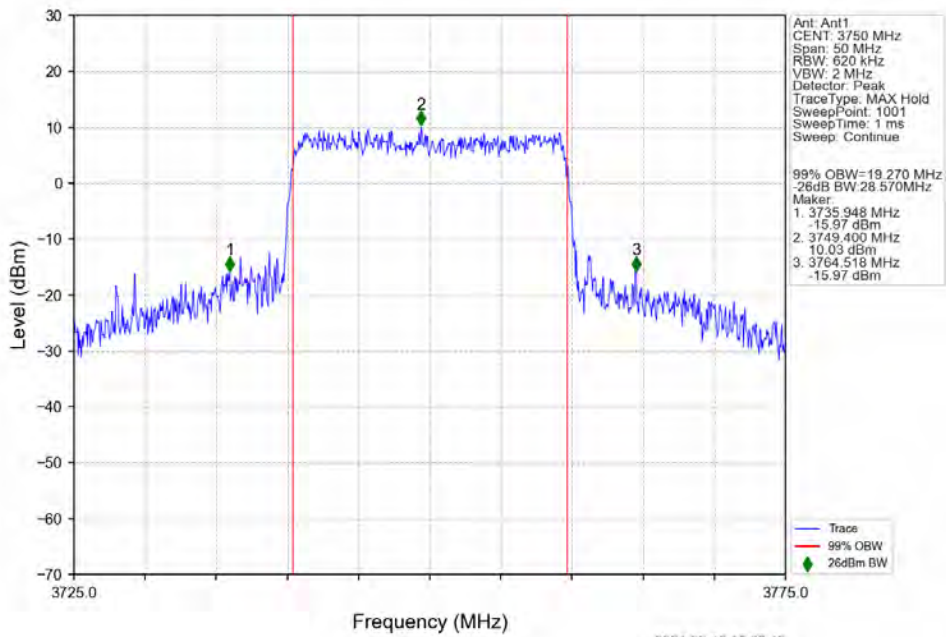




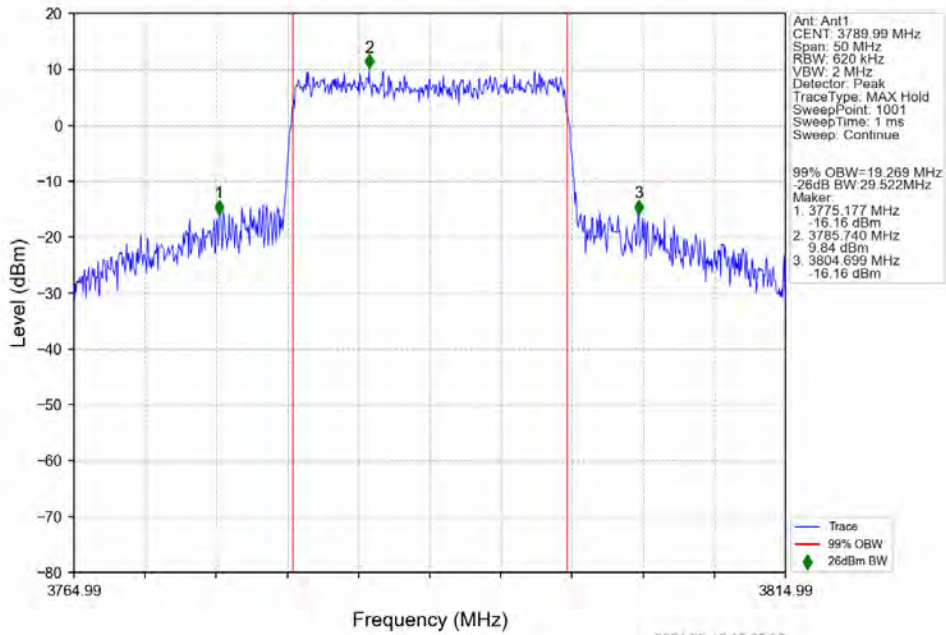
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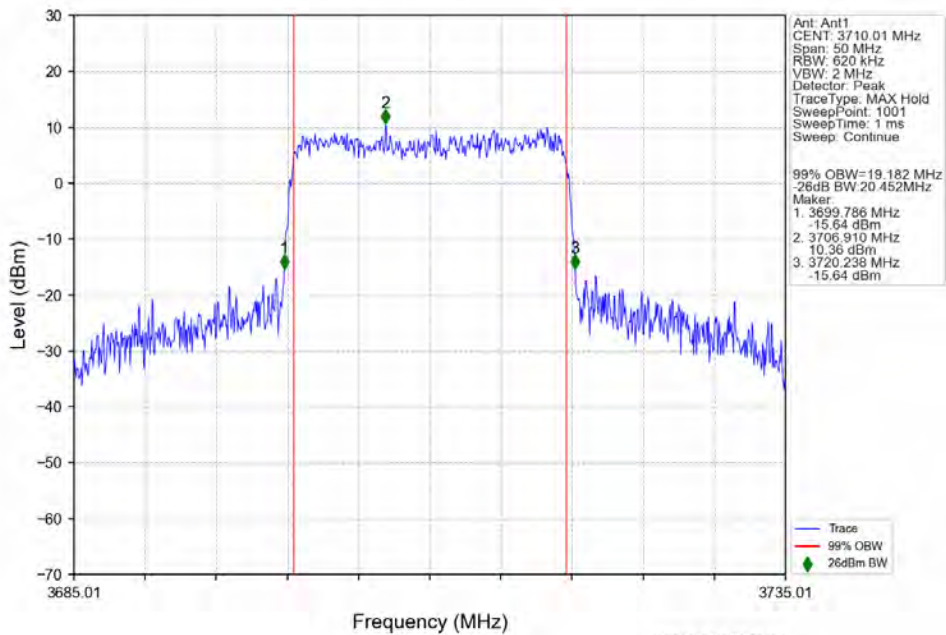
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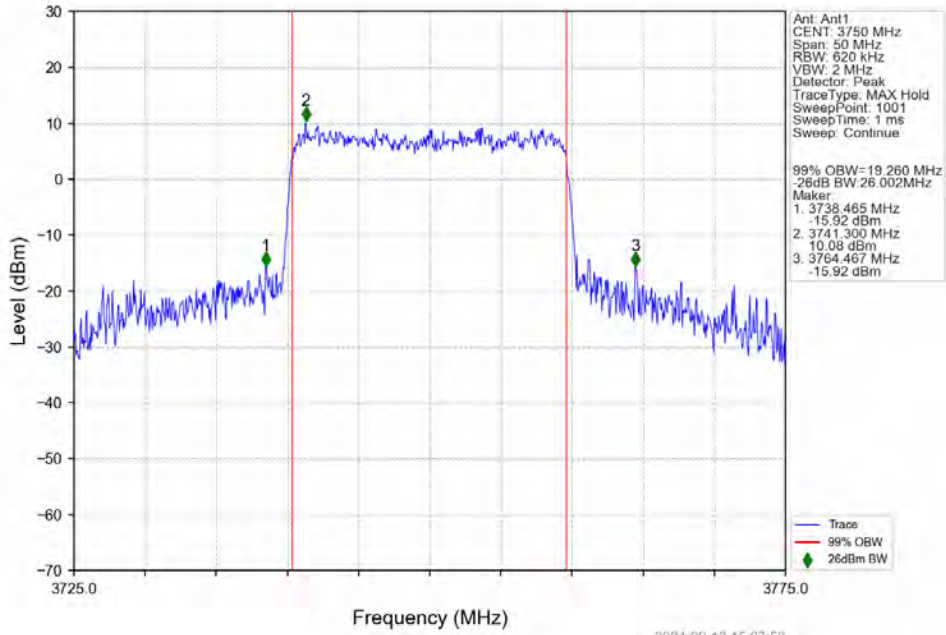
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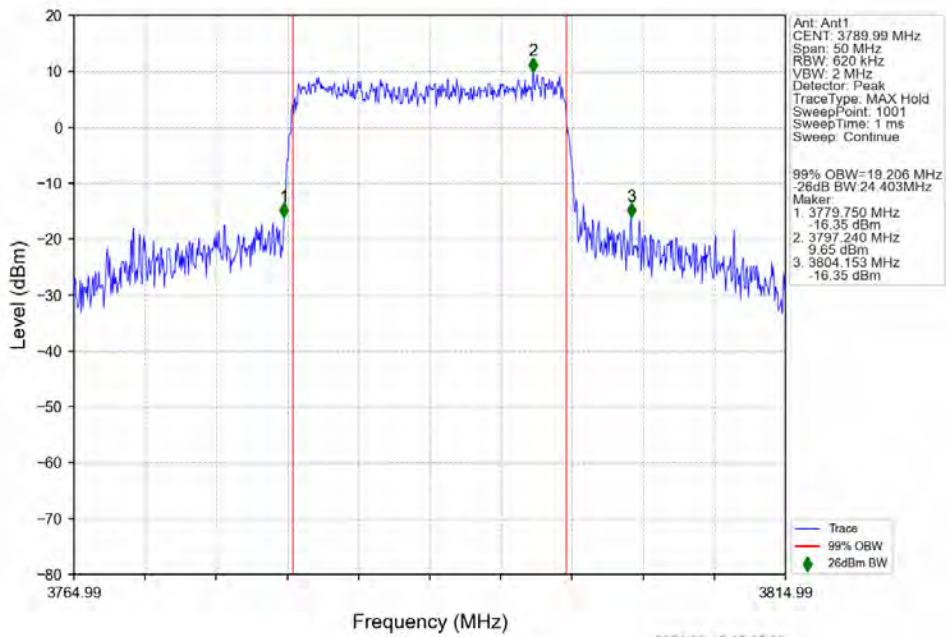
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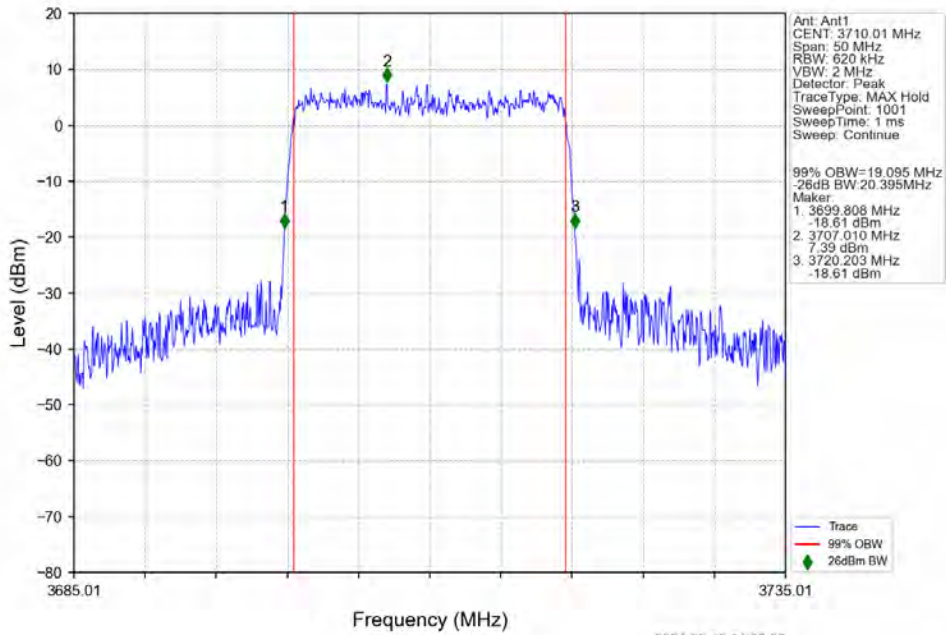
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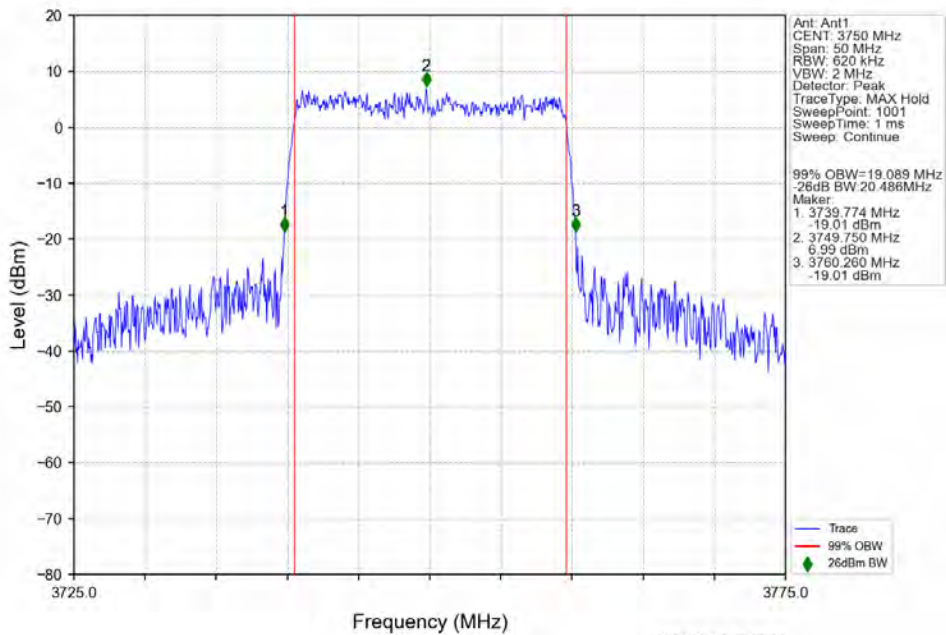
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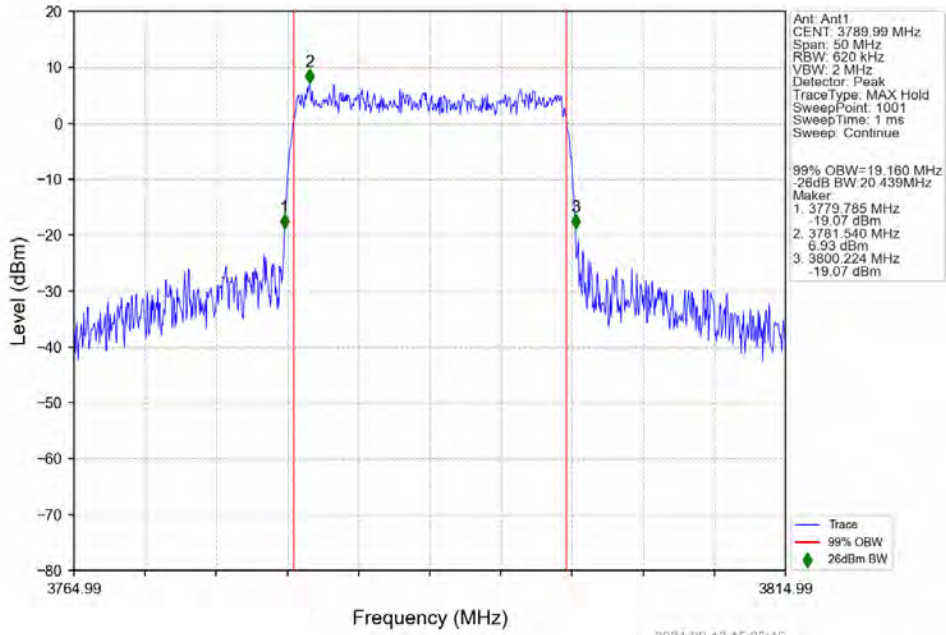
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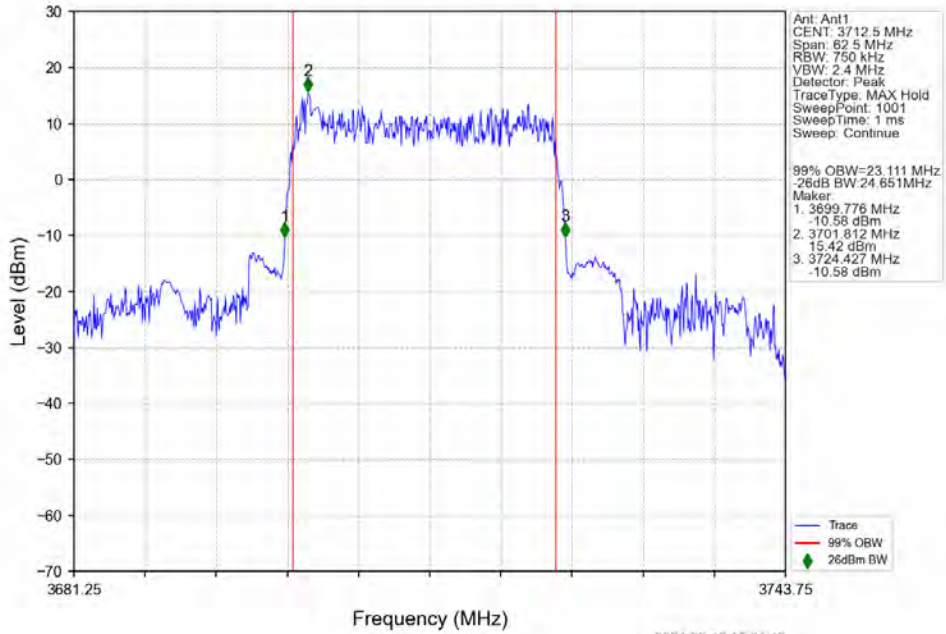


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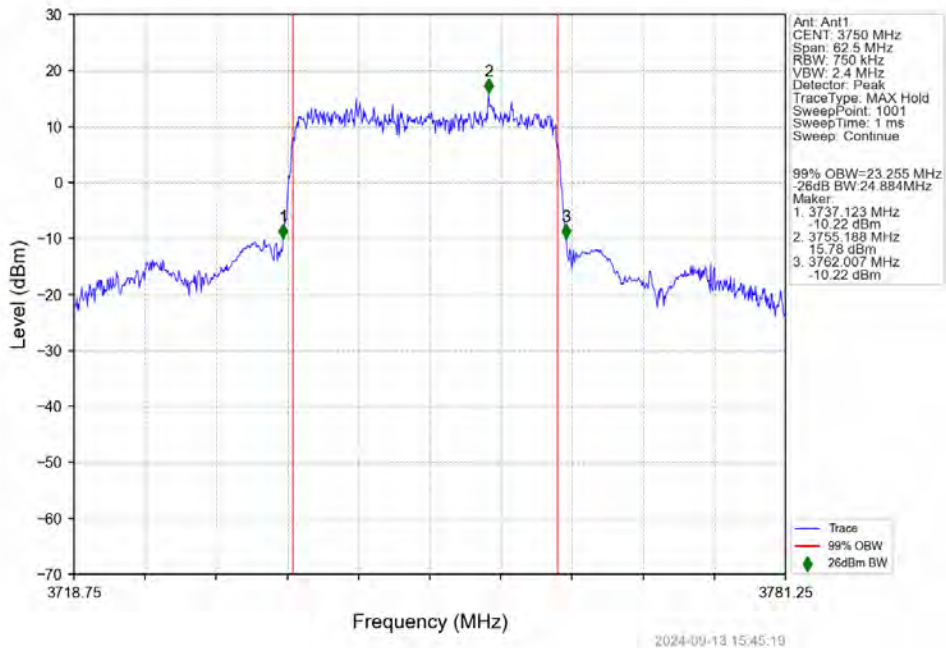


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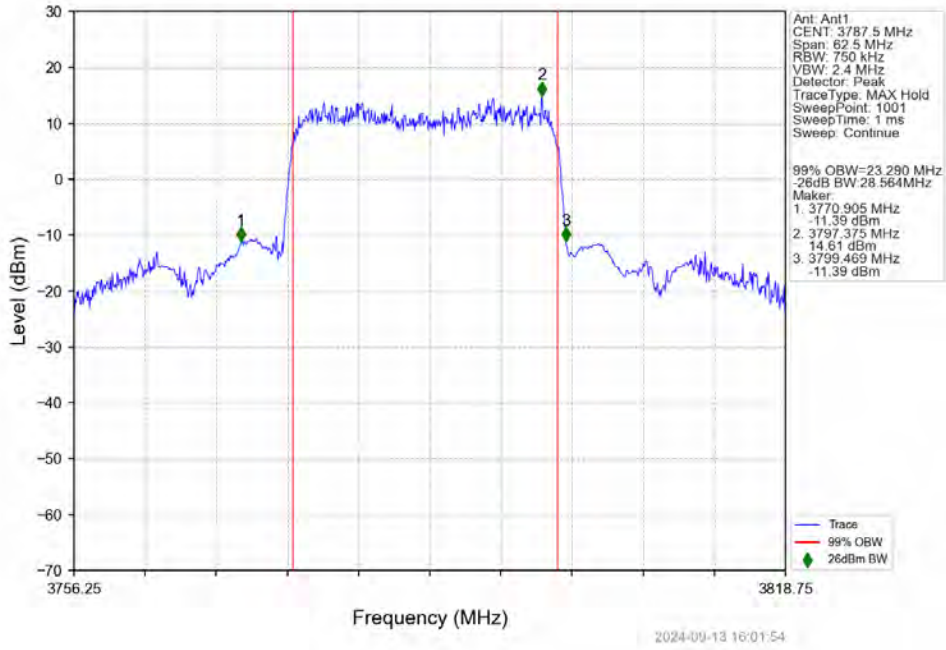
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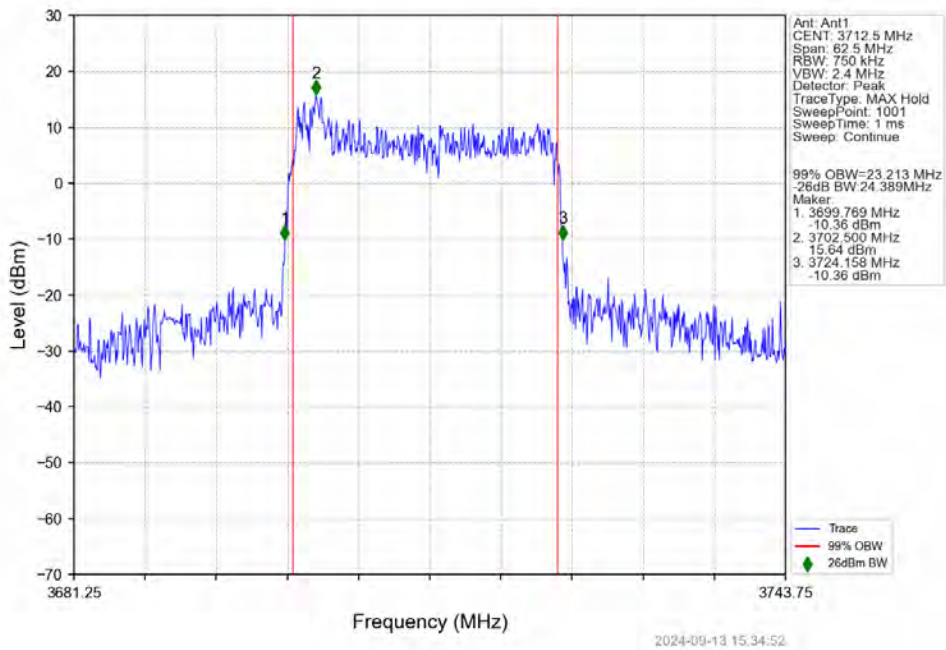
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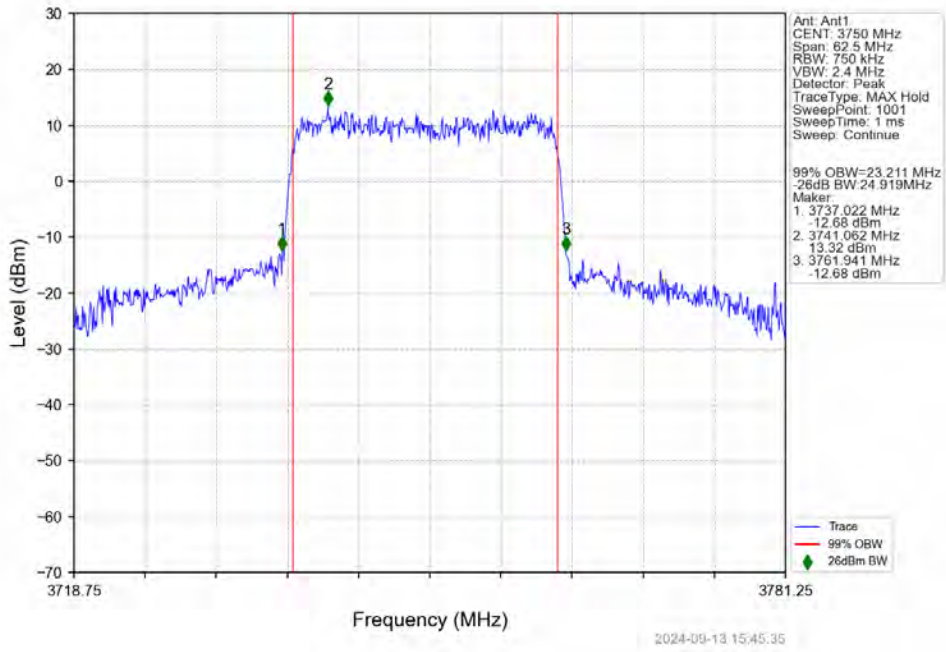
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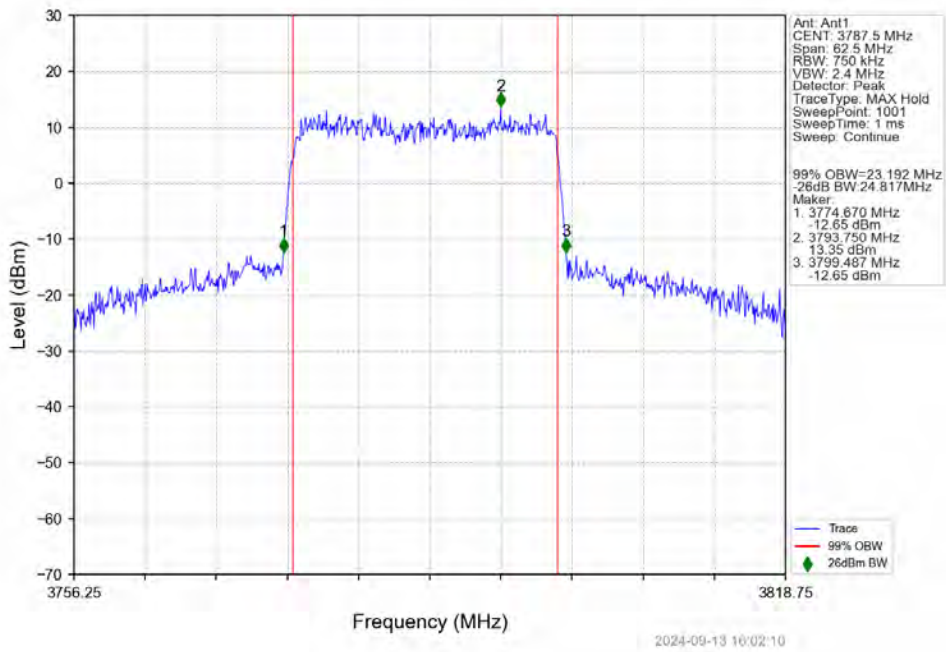
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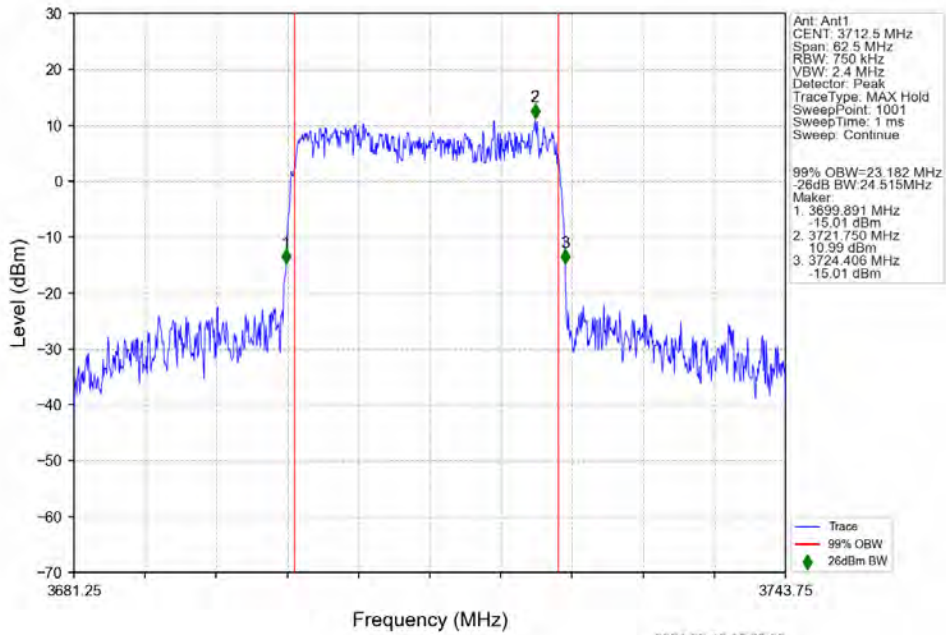


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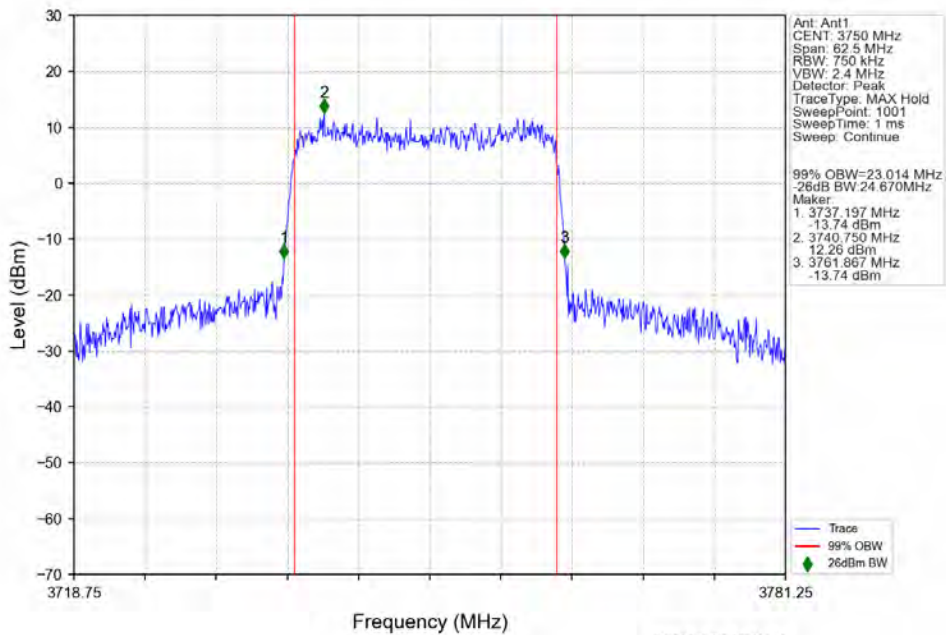




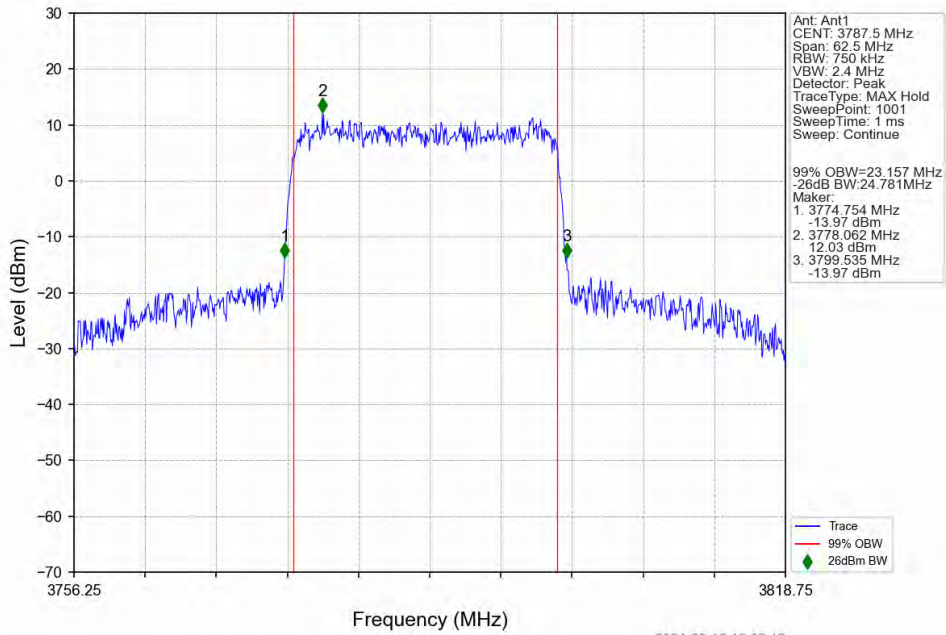
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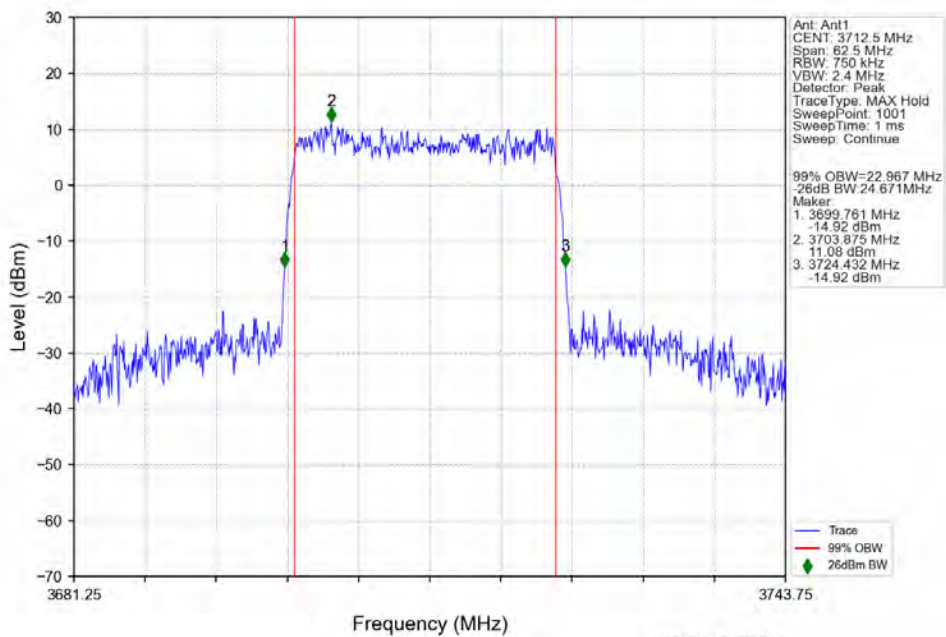
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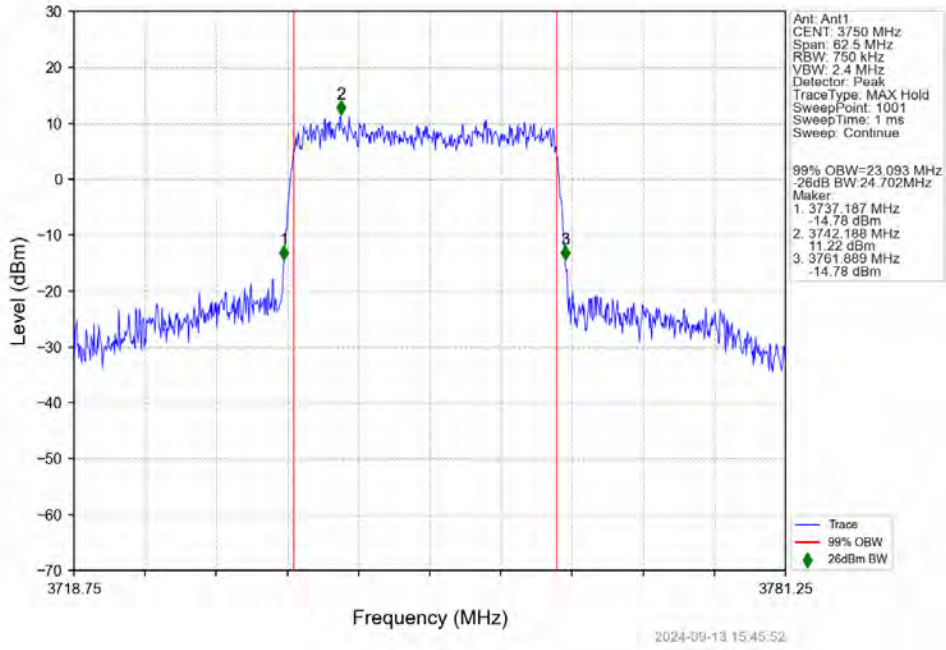
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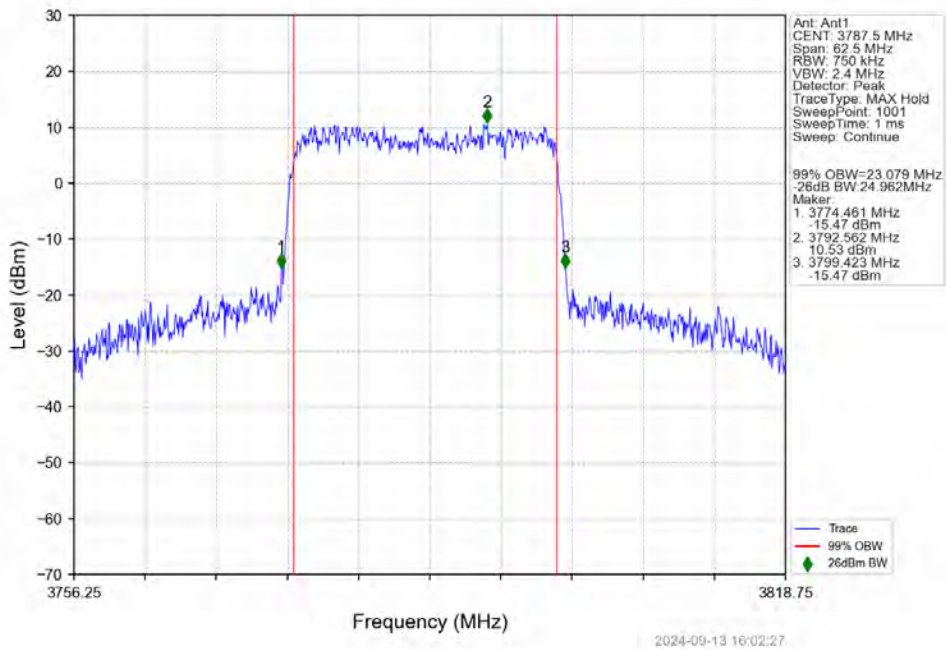
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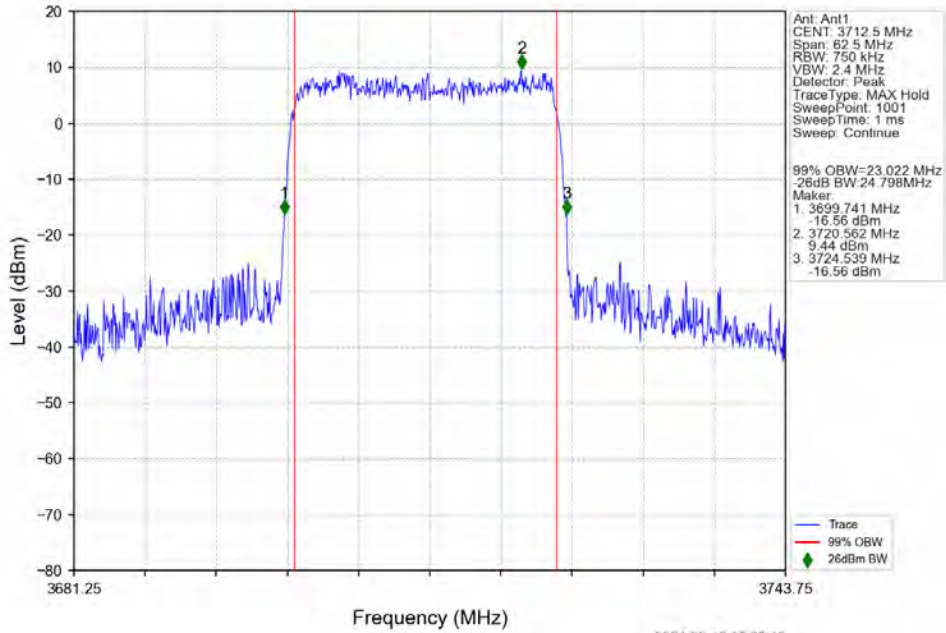
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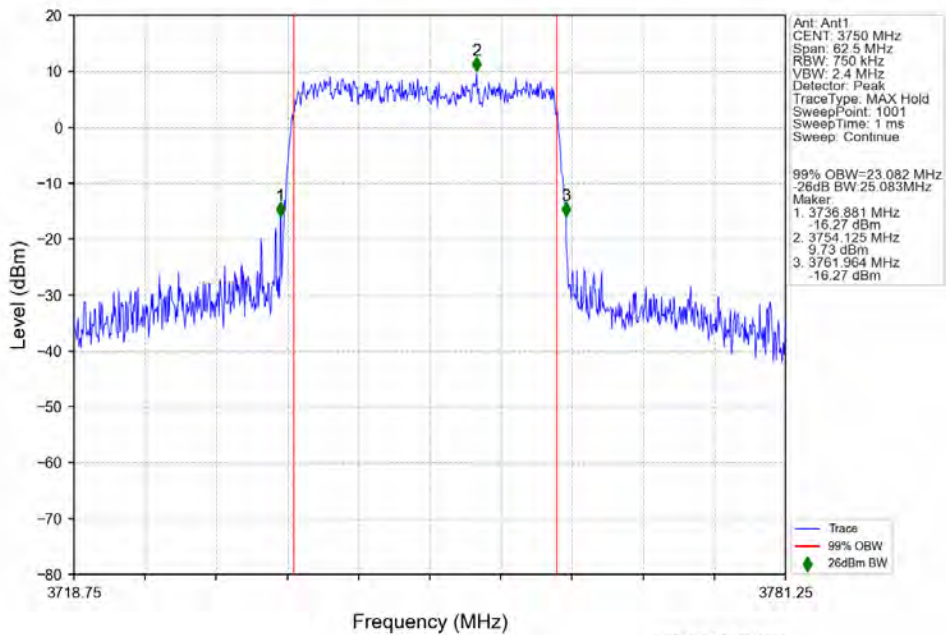
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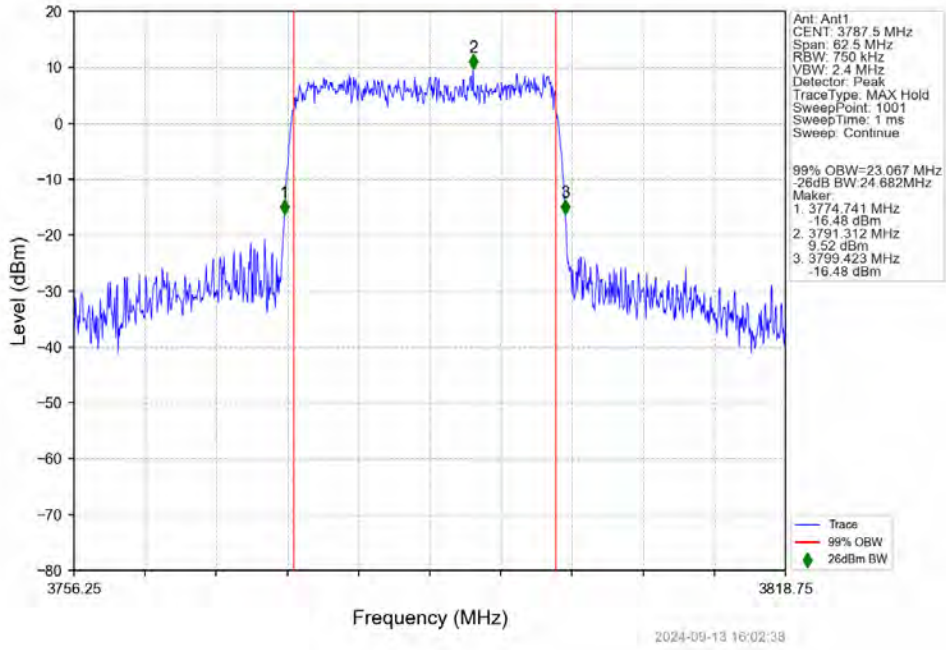
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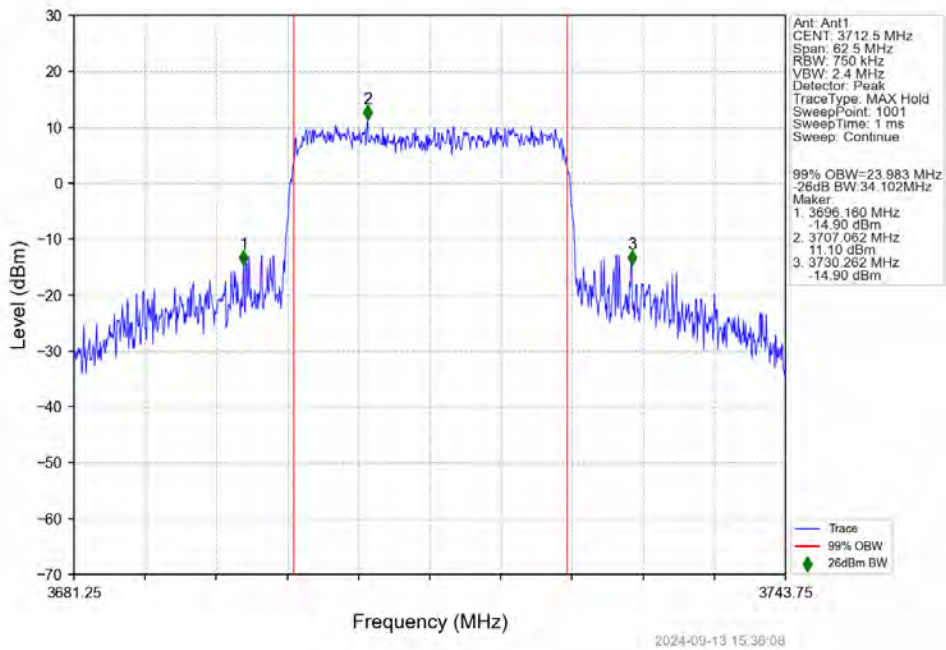
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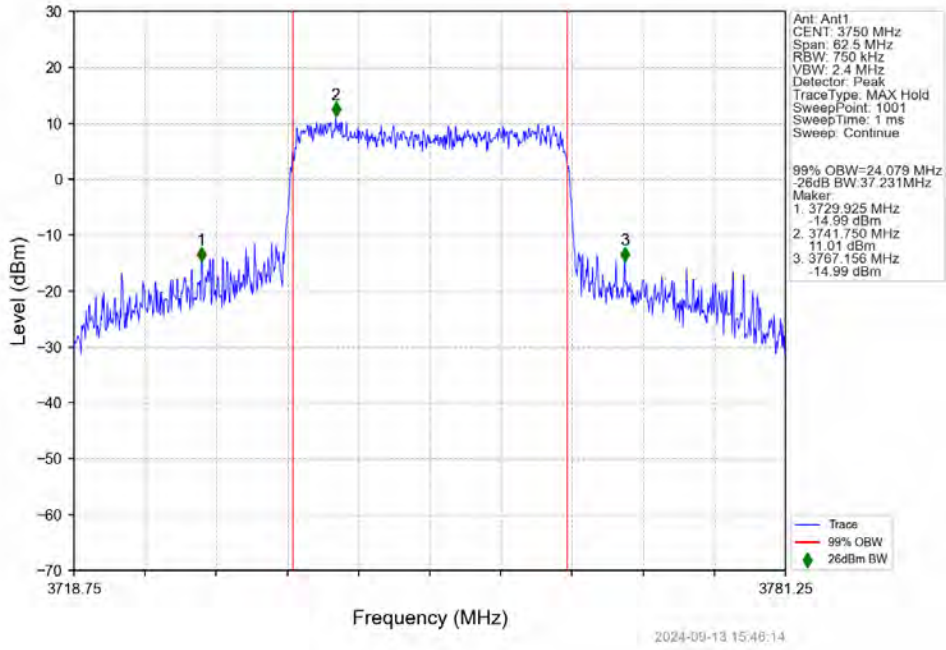
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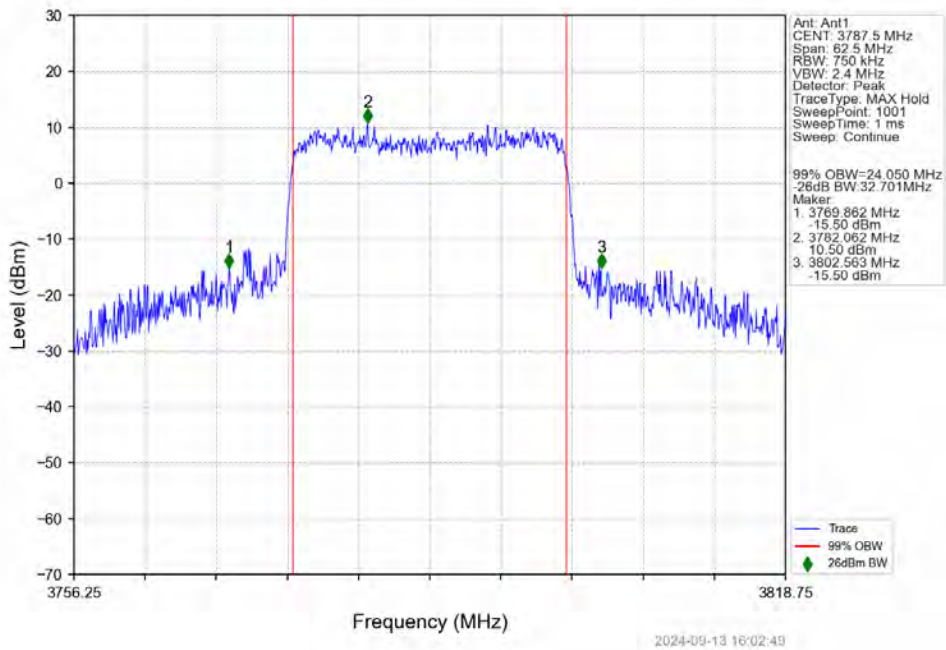
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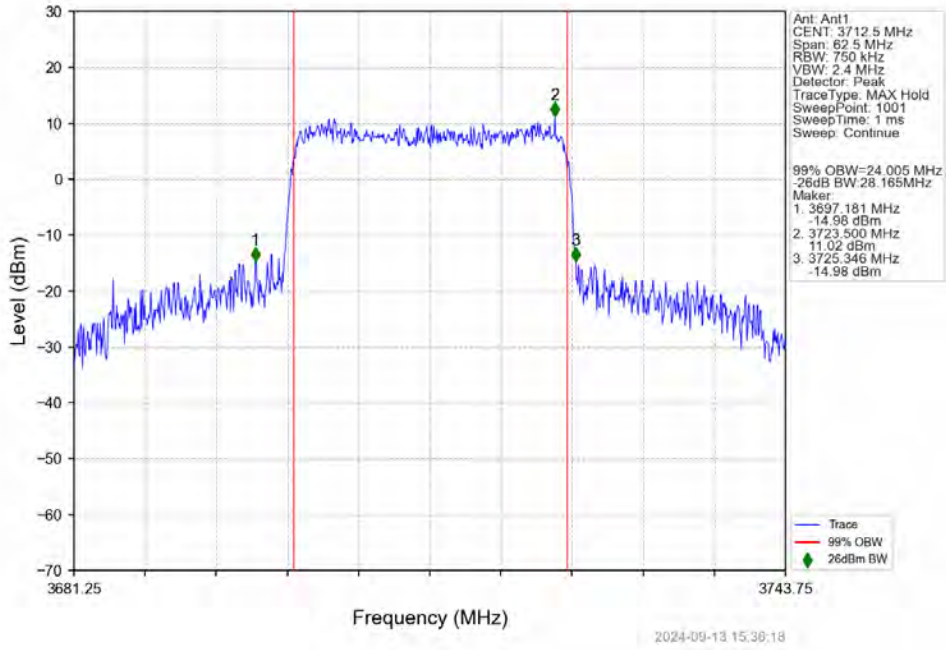
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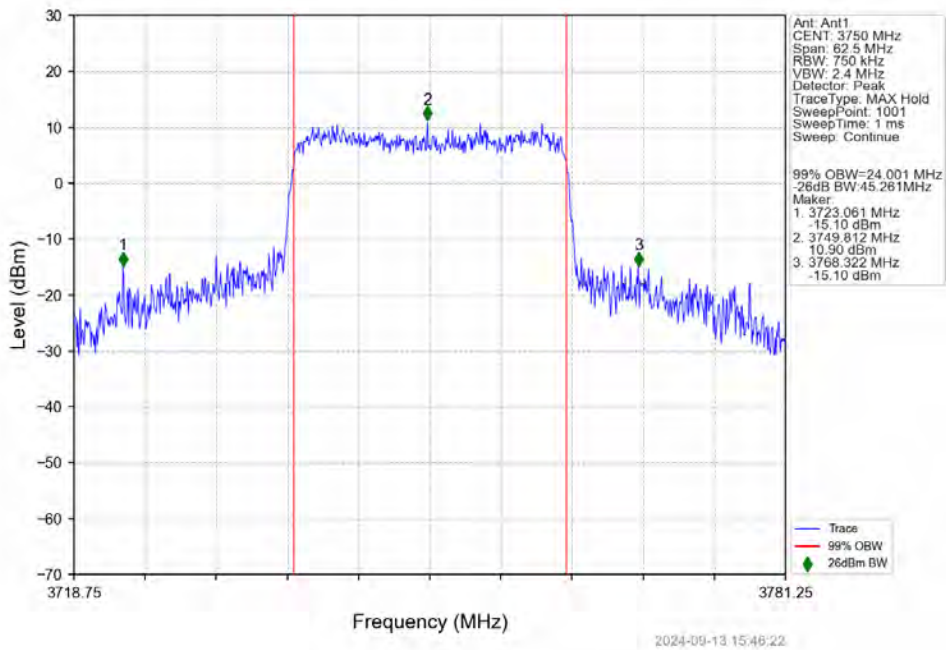
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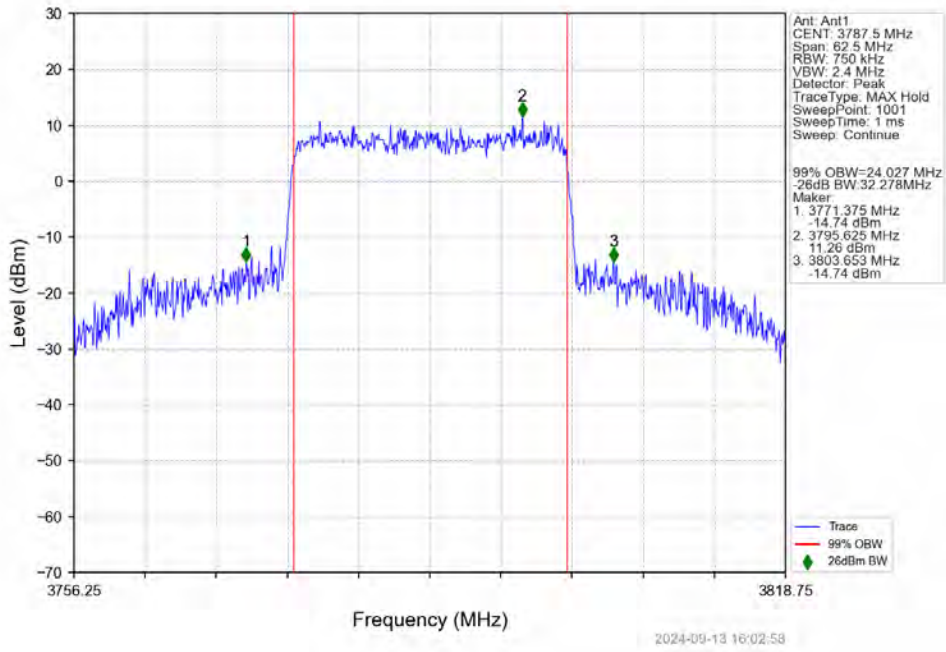
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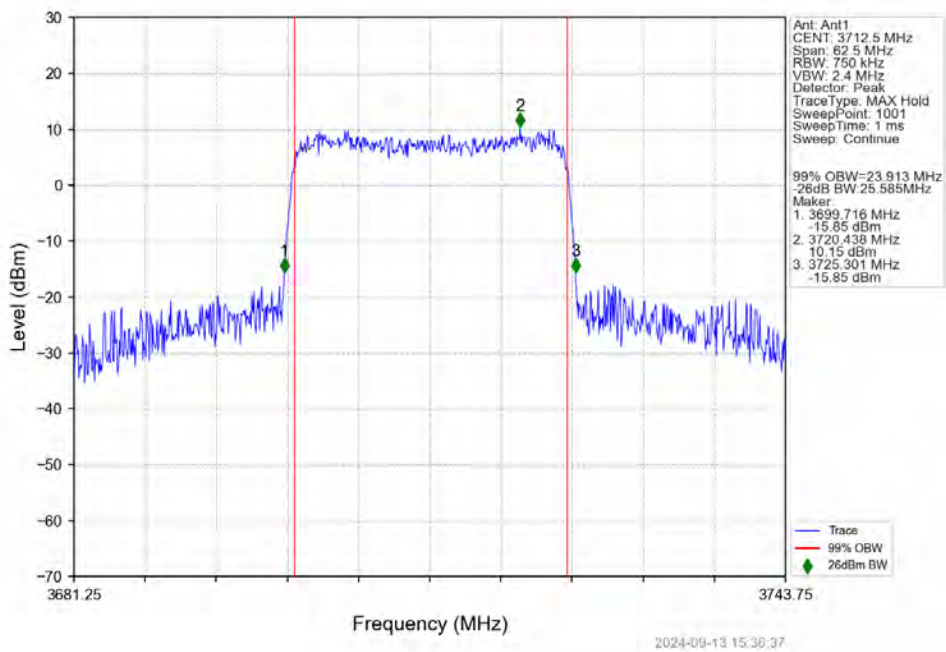
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n78a 15kHz SISO NTV 25MHz CP-OFDM 16 QAM 3787.5MHz Outer Full

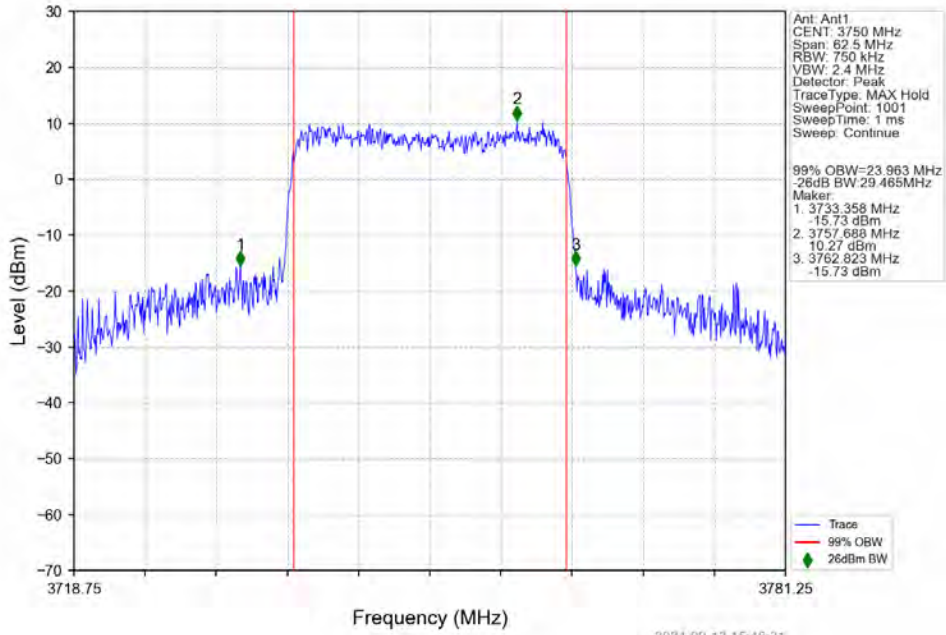


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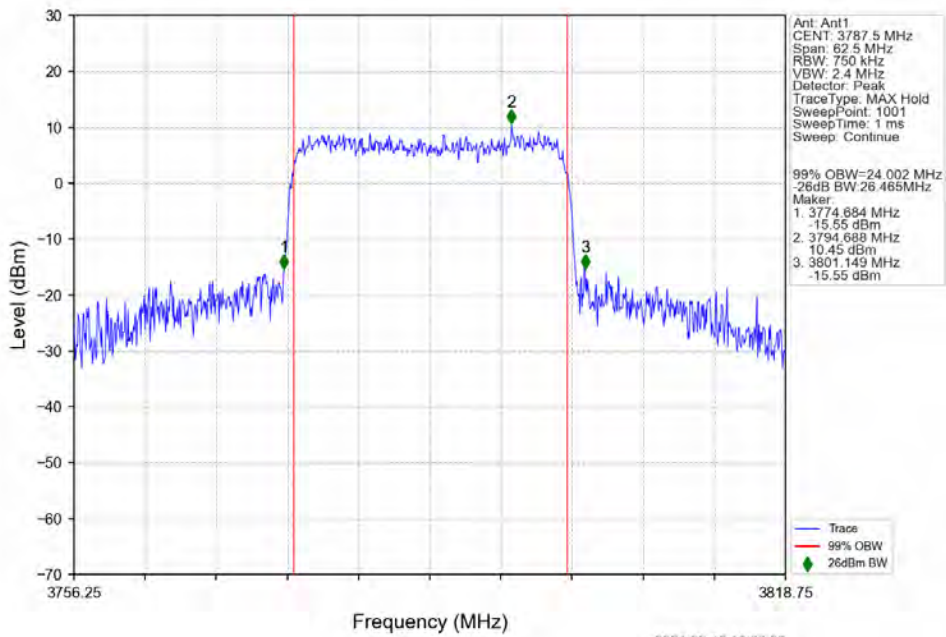




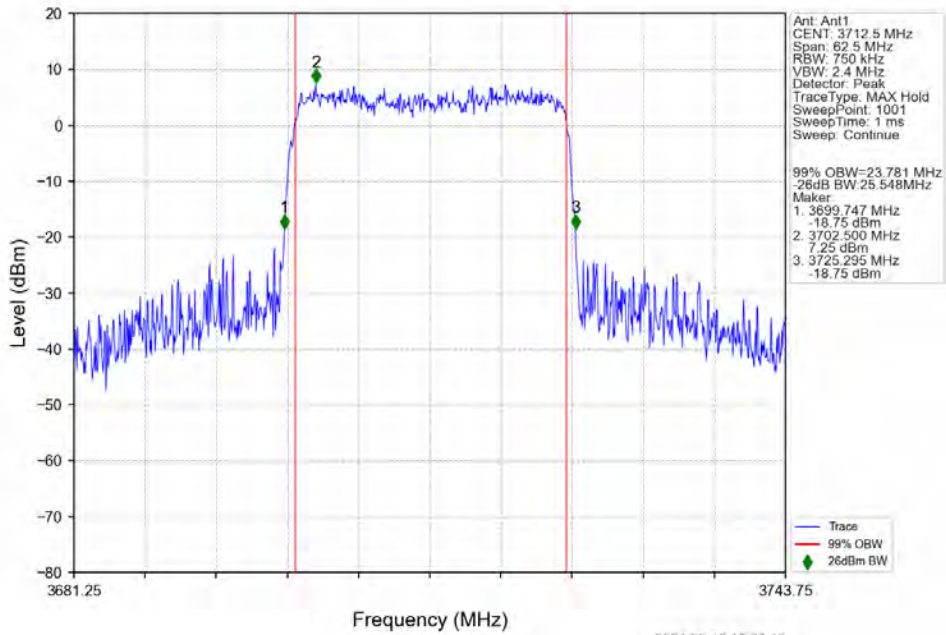
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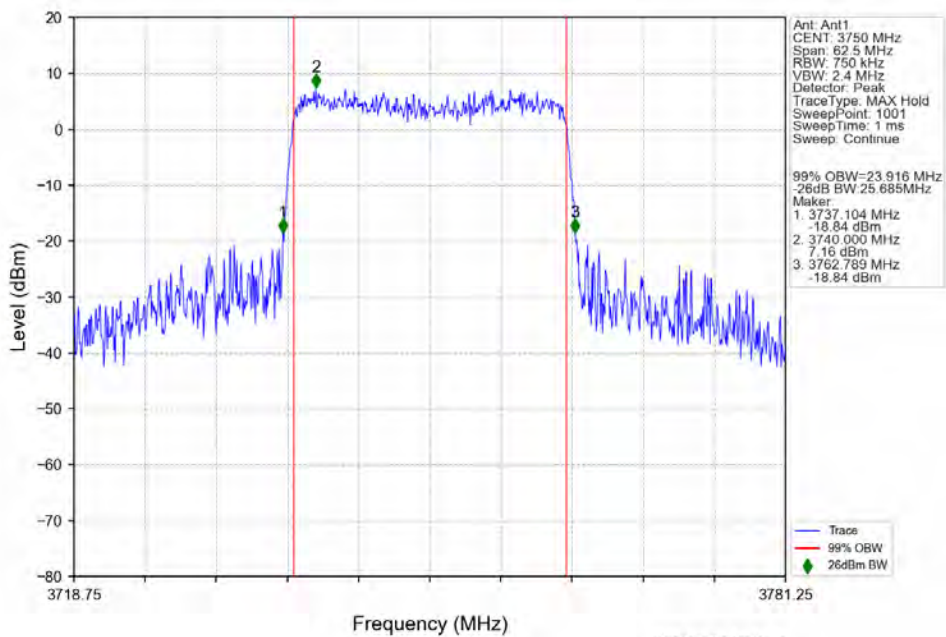
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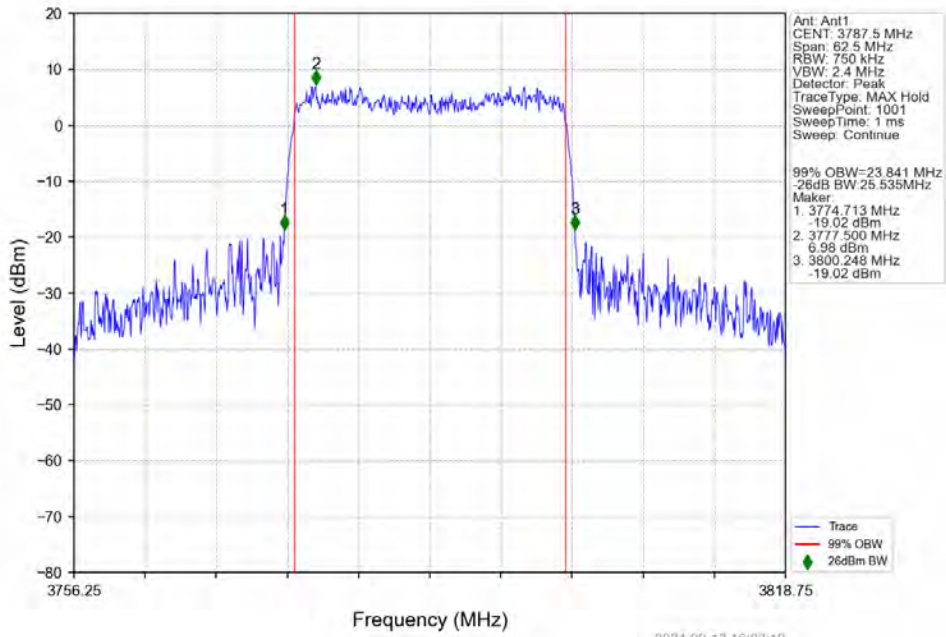
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n78a 15kHz SISO NTV 25MHz CP-OFDM 256 QAM 3750MHz Outer Full

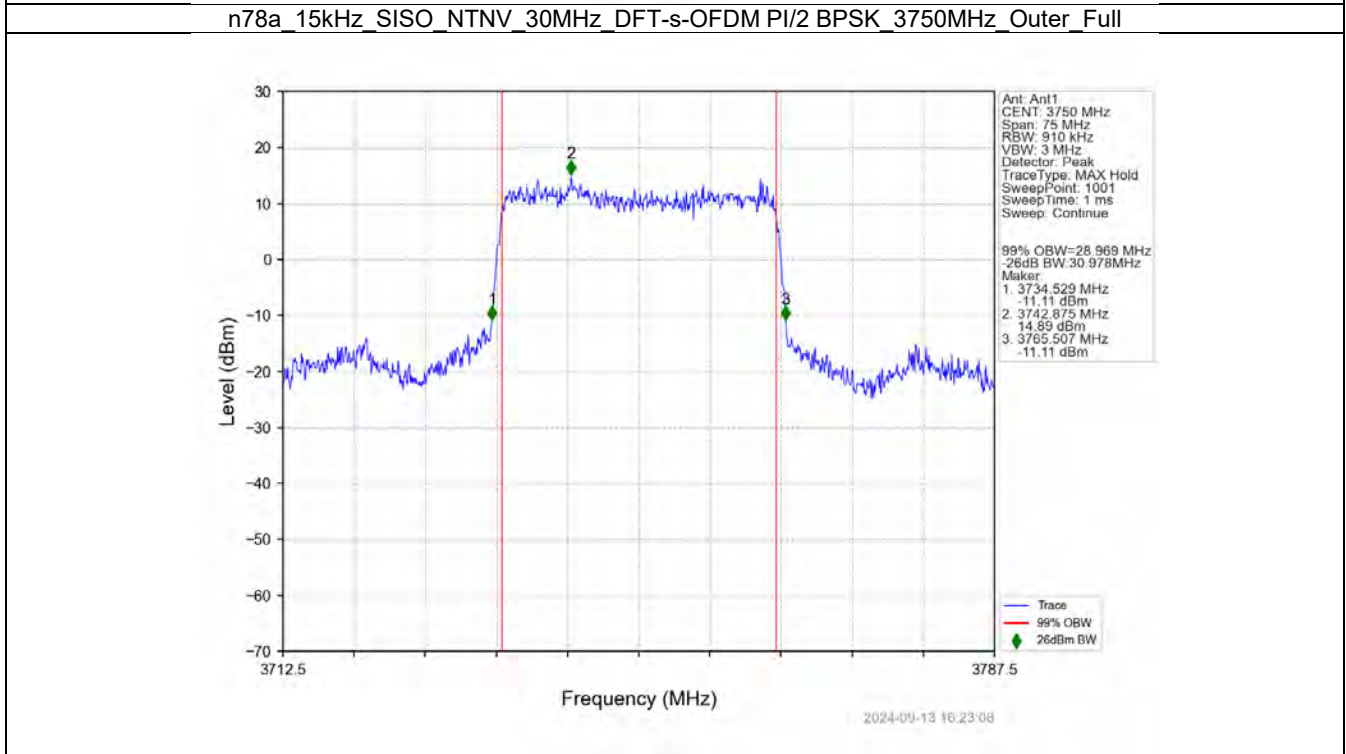
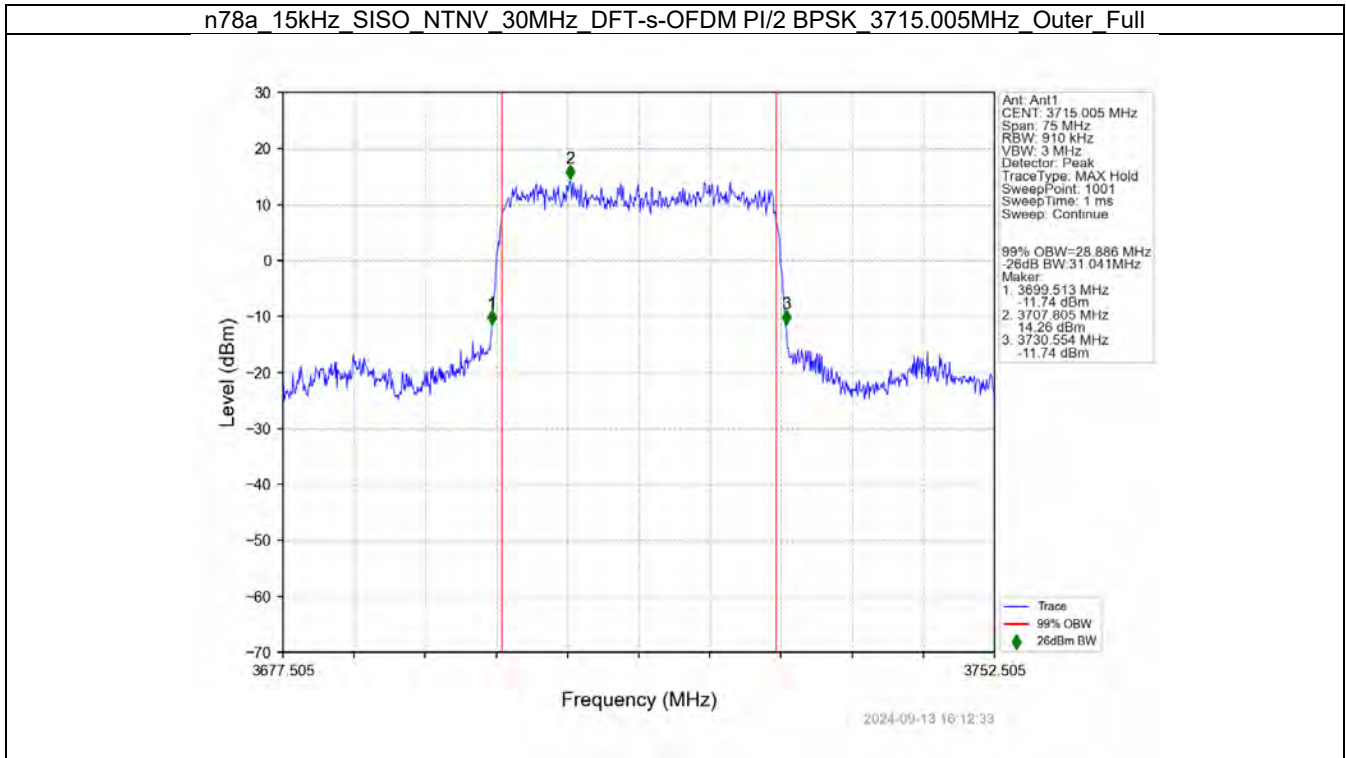


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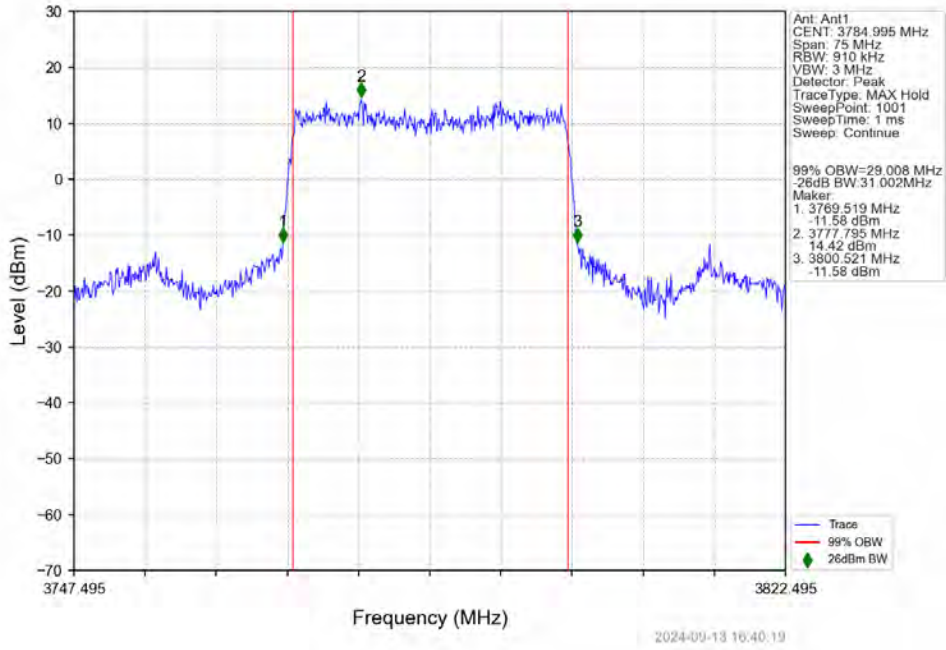


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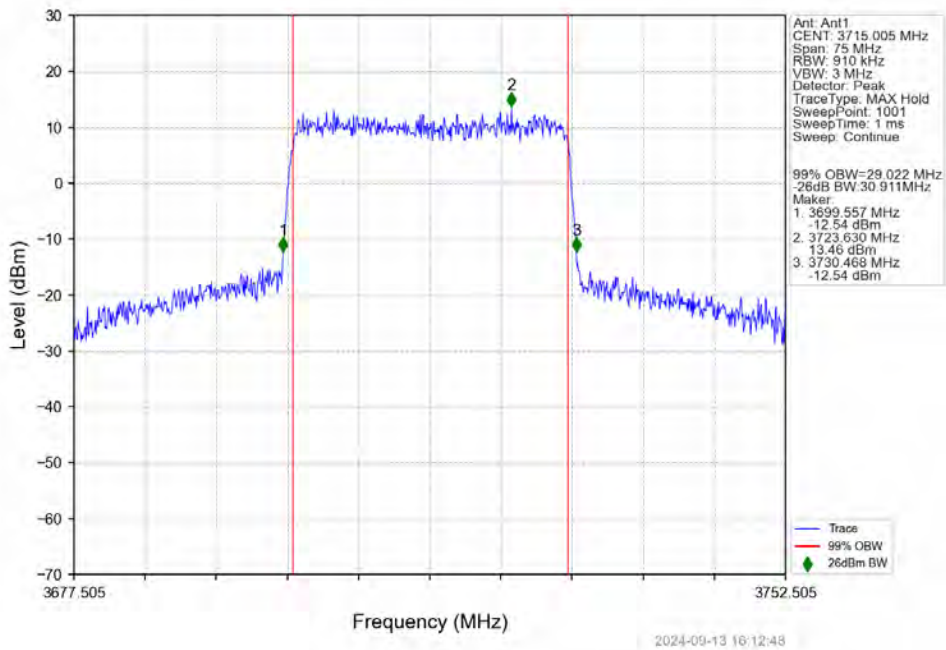
4.2.5 15k\_SISO\_30MHz\_NTNV



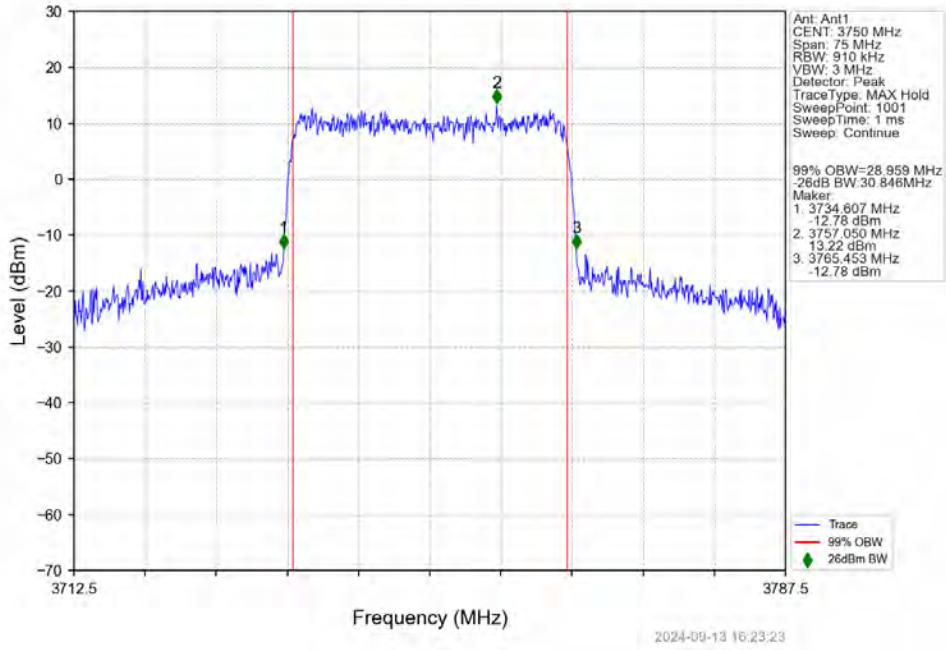
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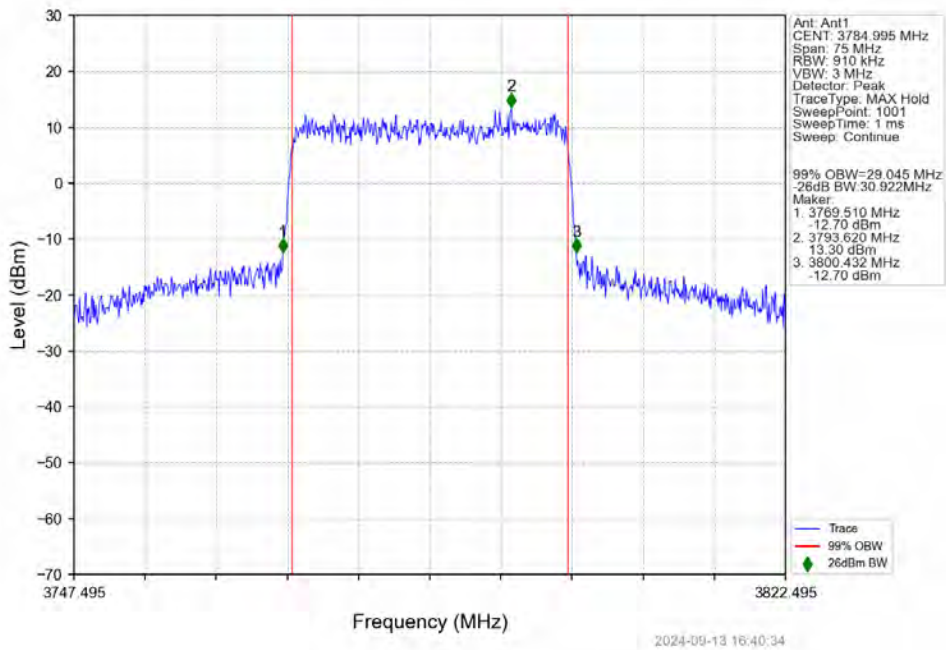
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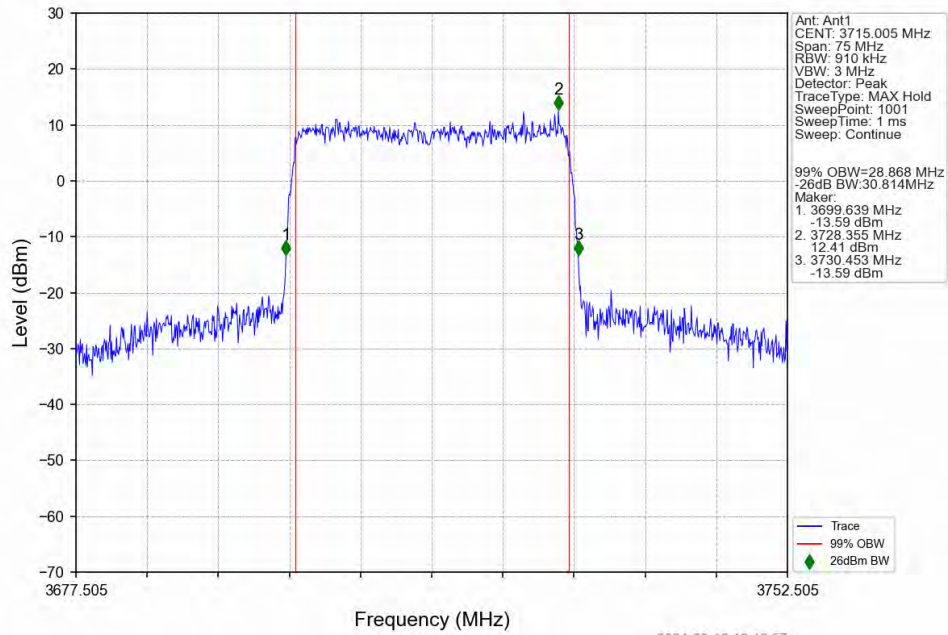
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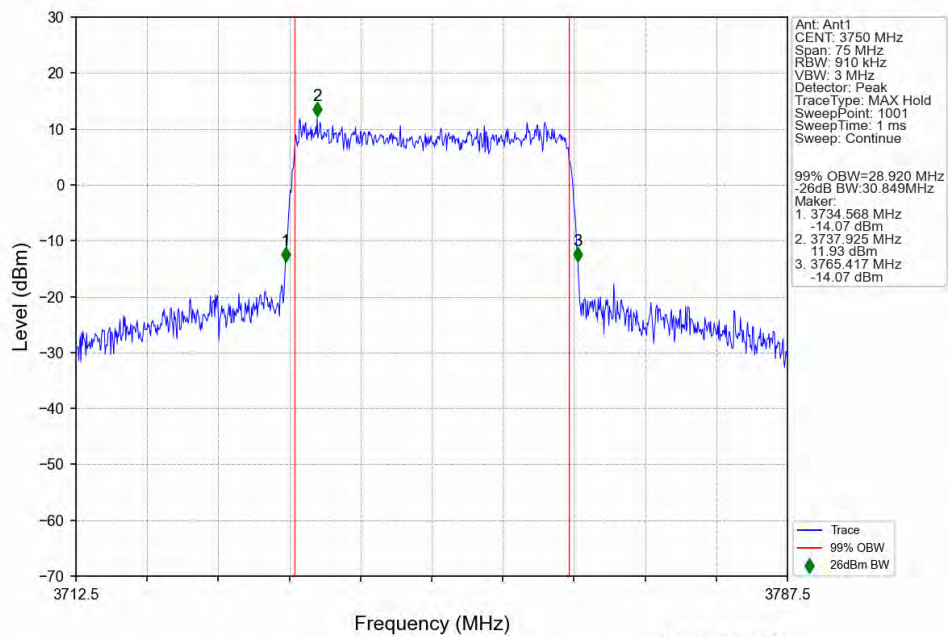
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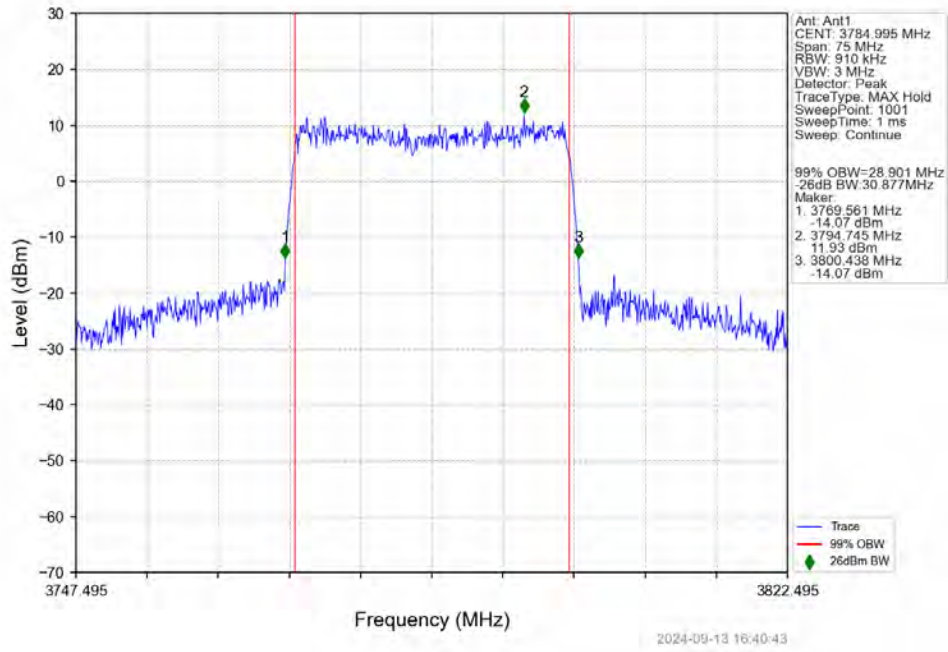
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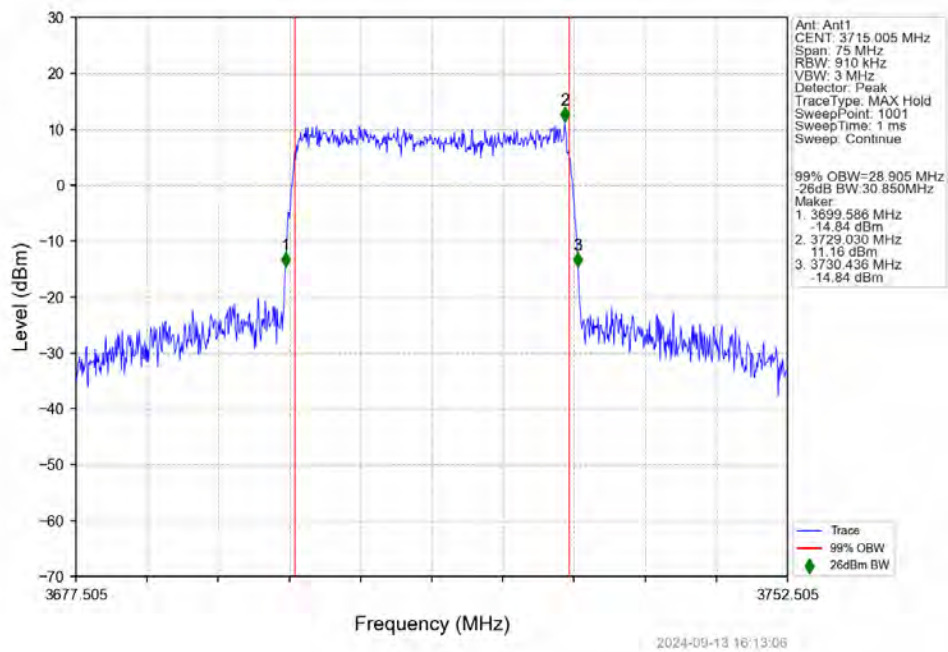
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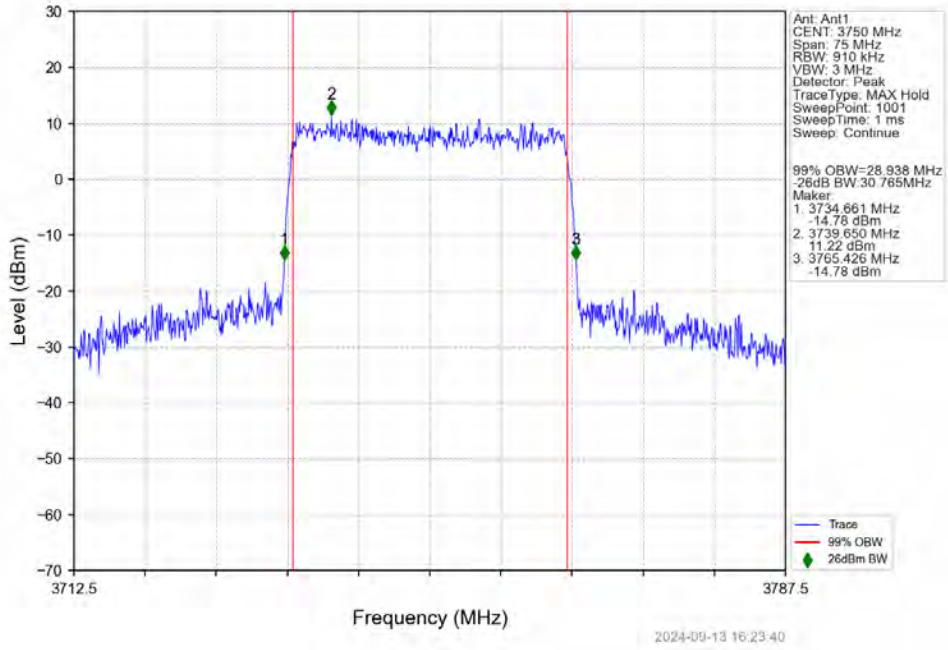


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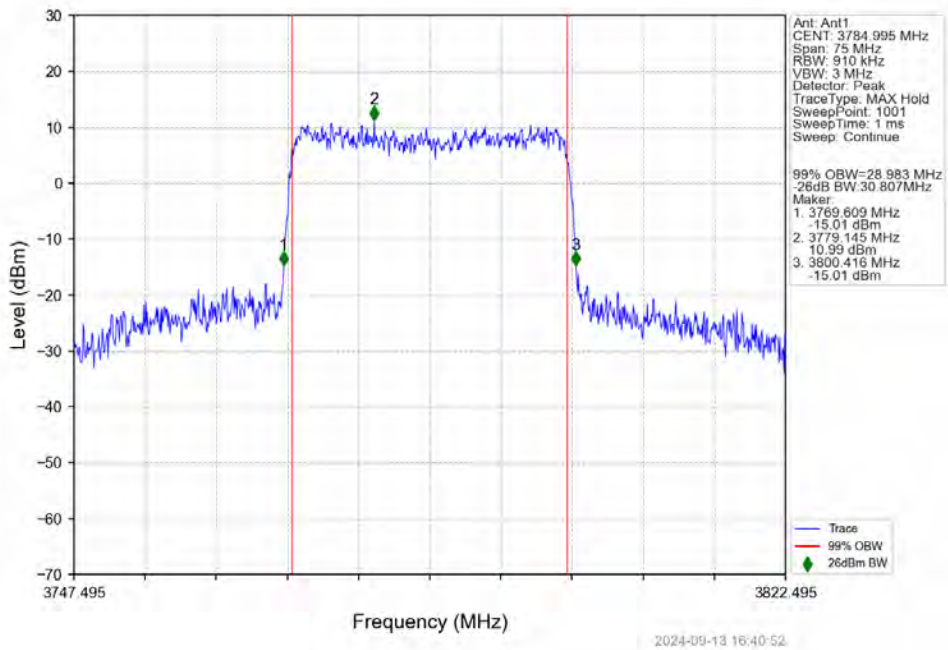




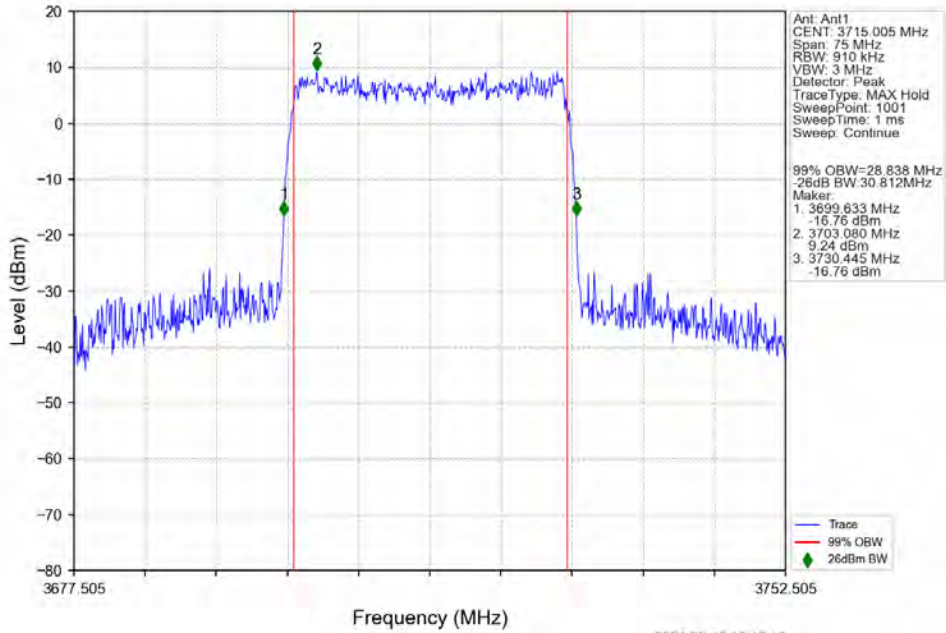
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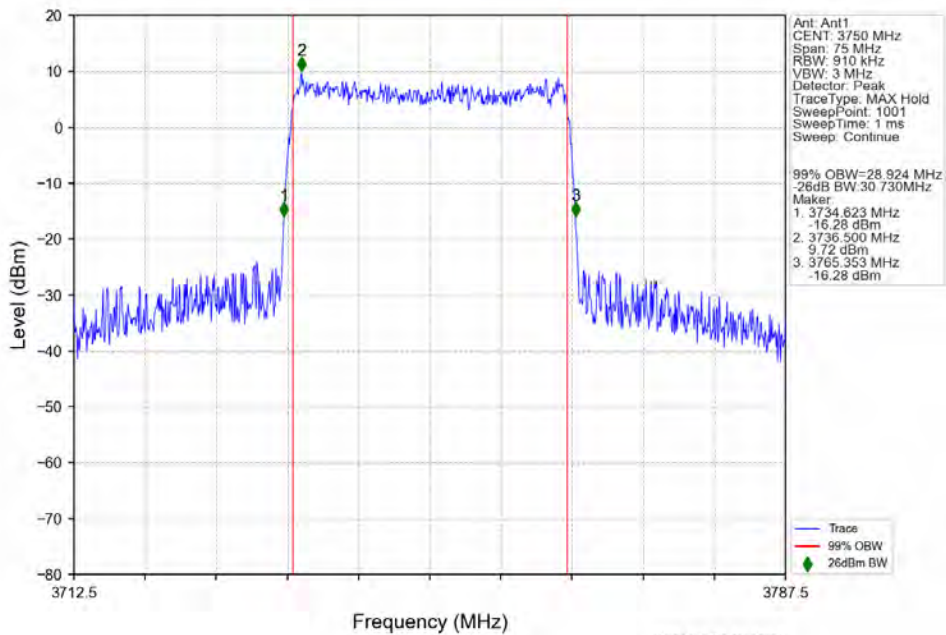
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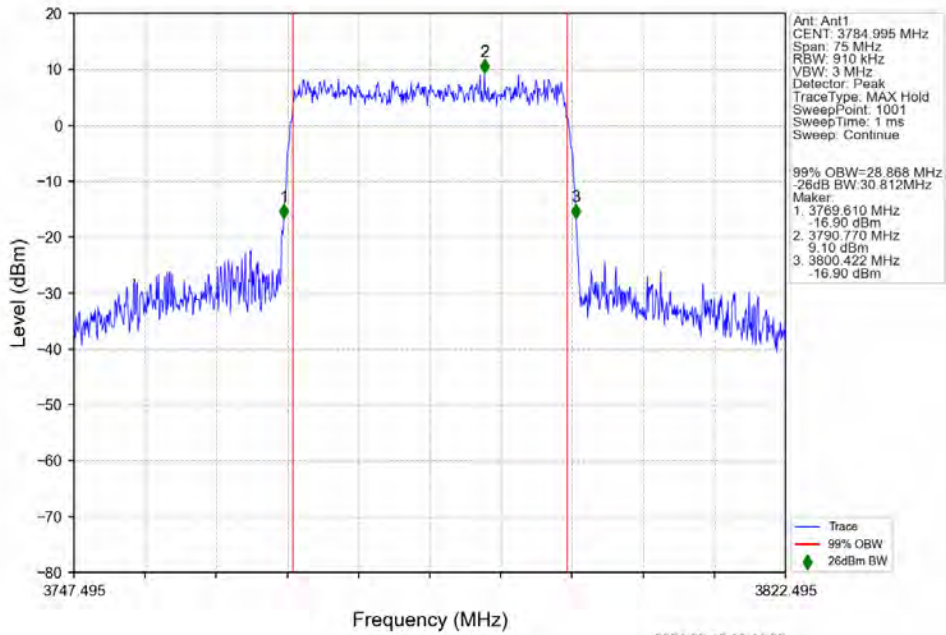
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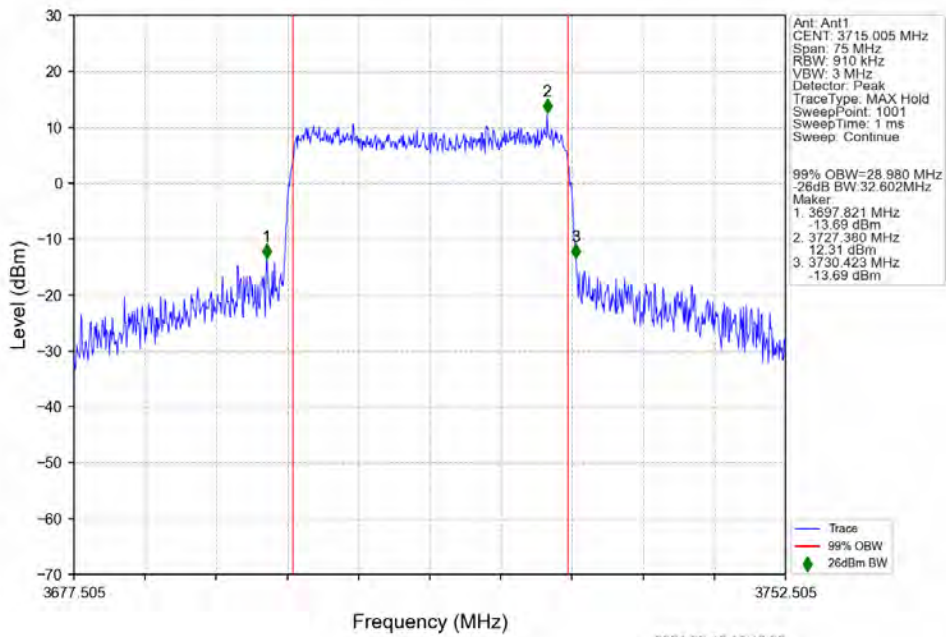
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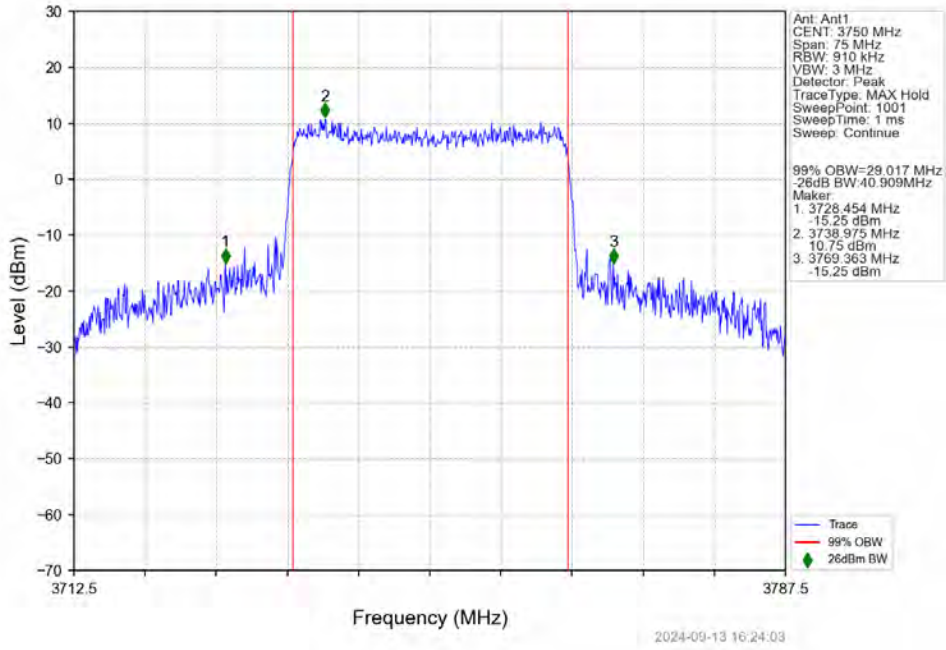
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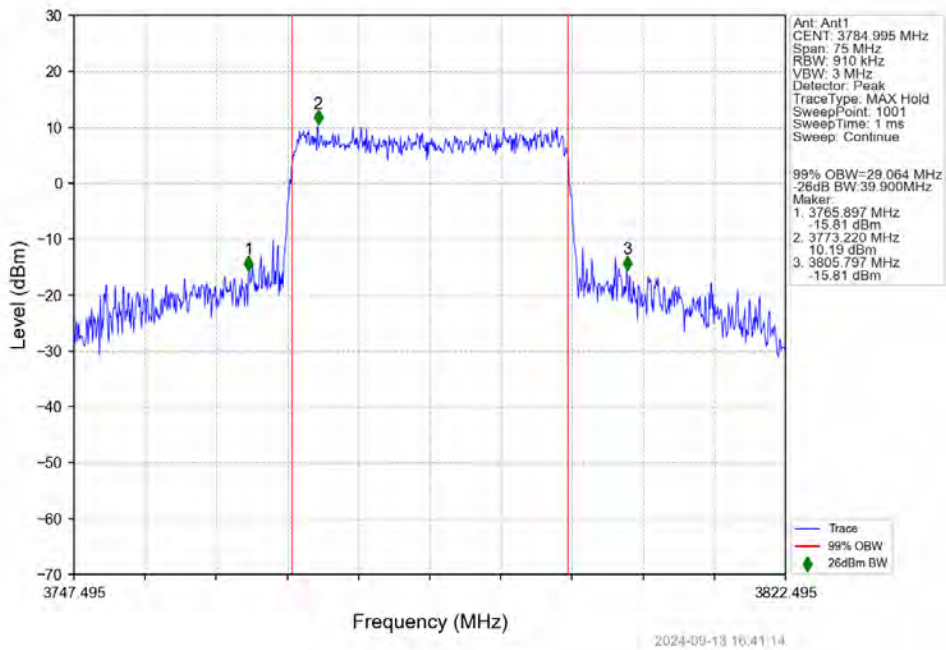
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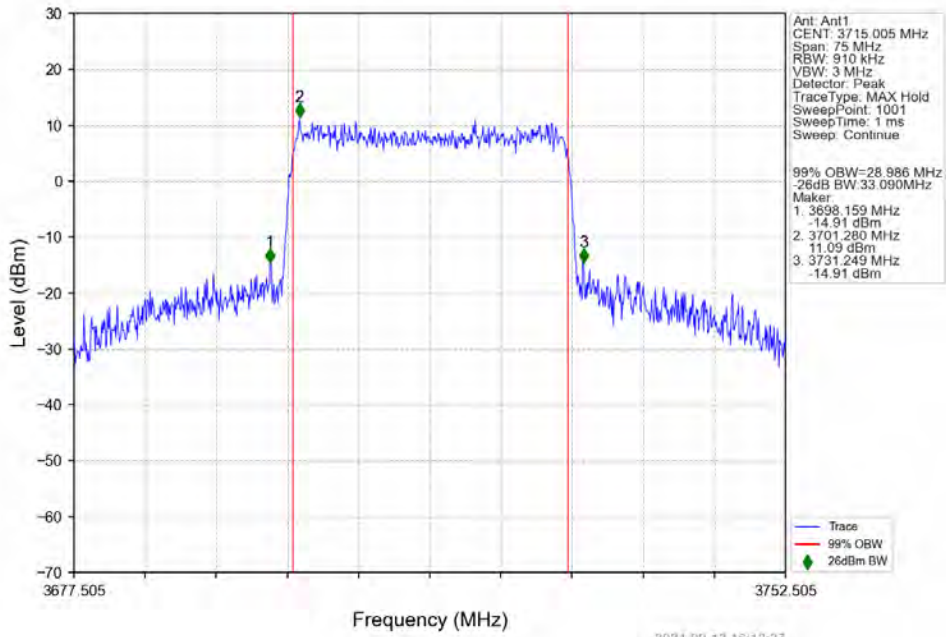
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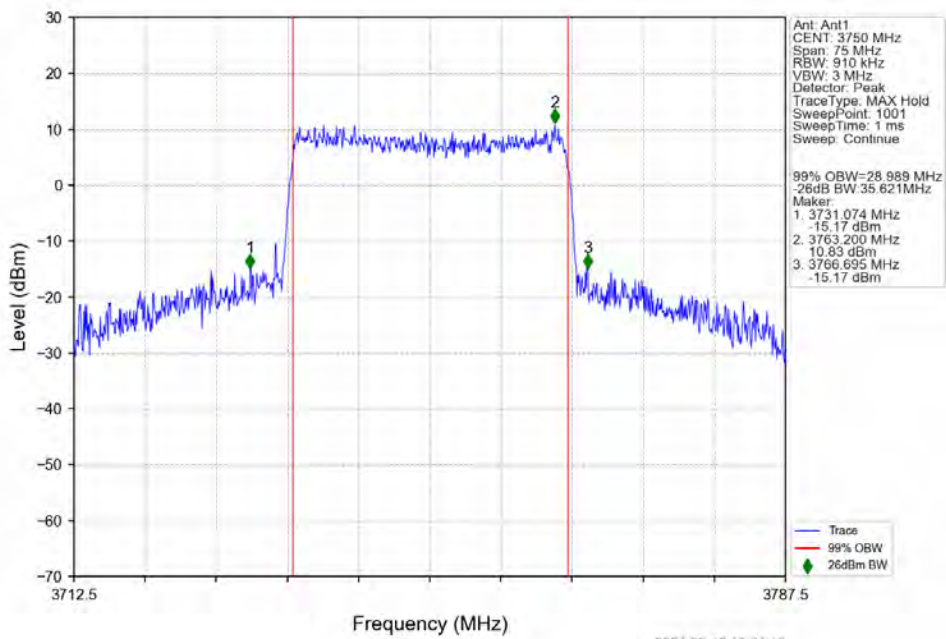
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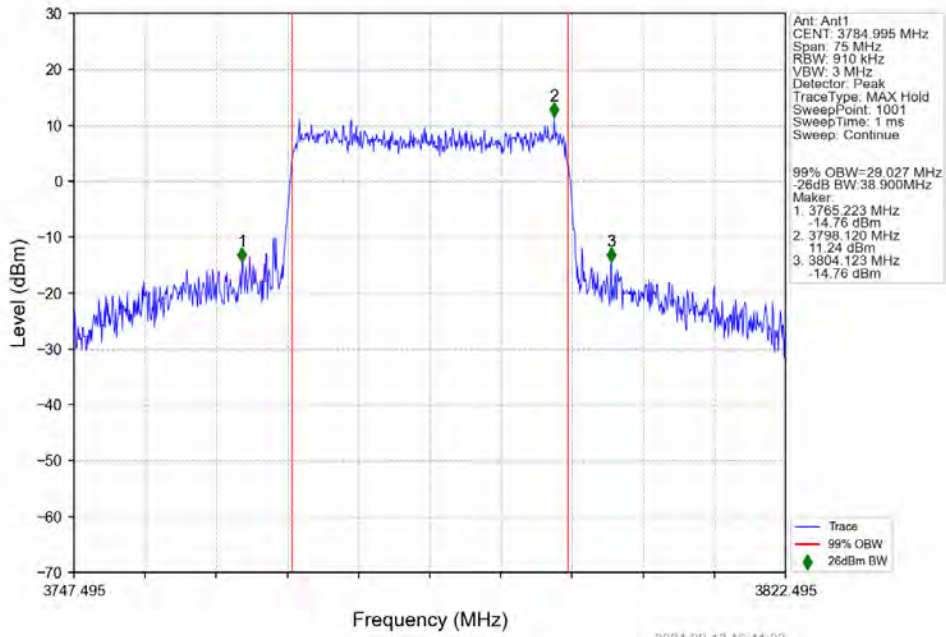
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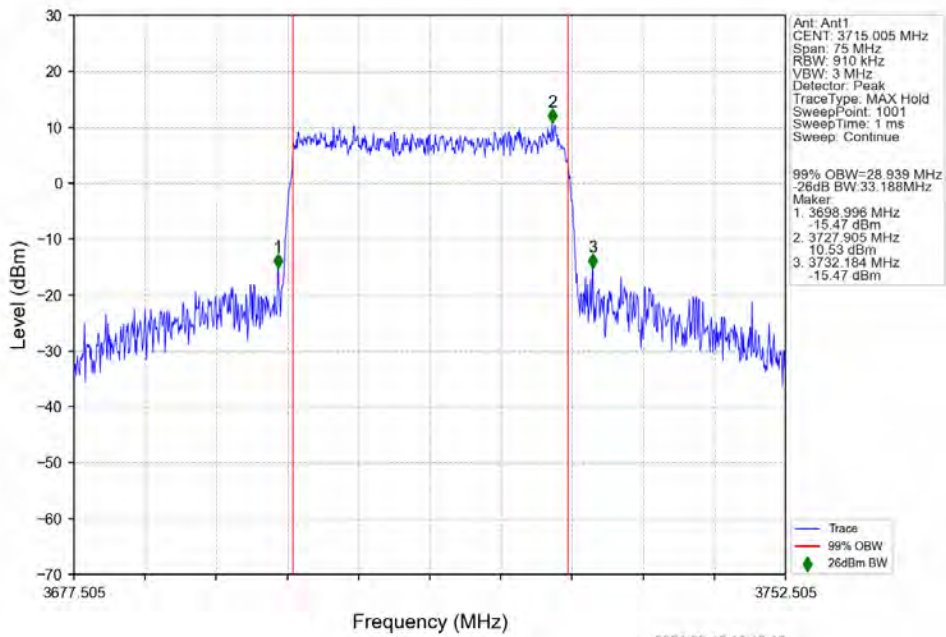
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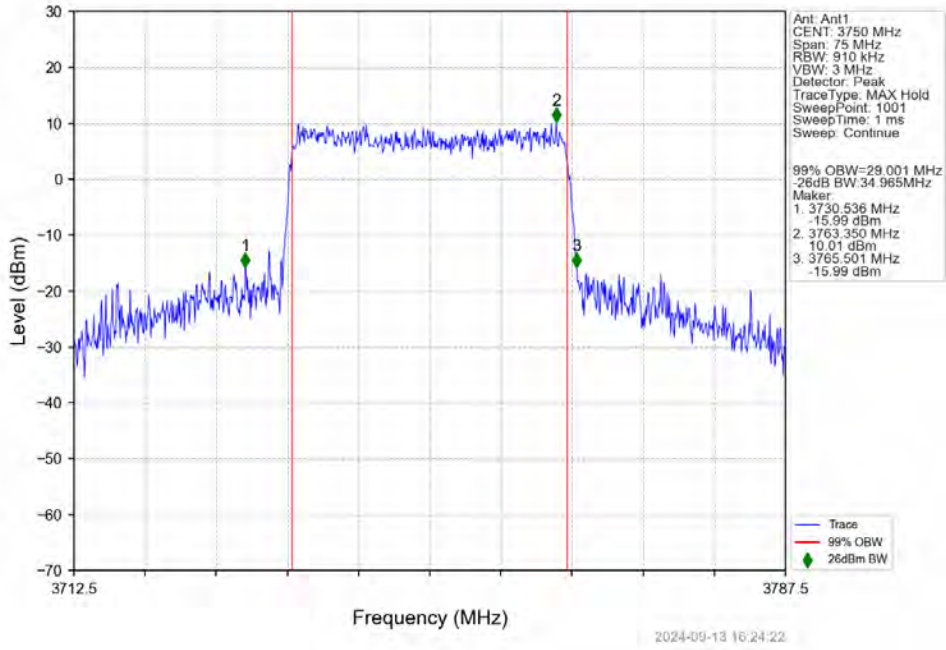
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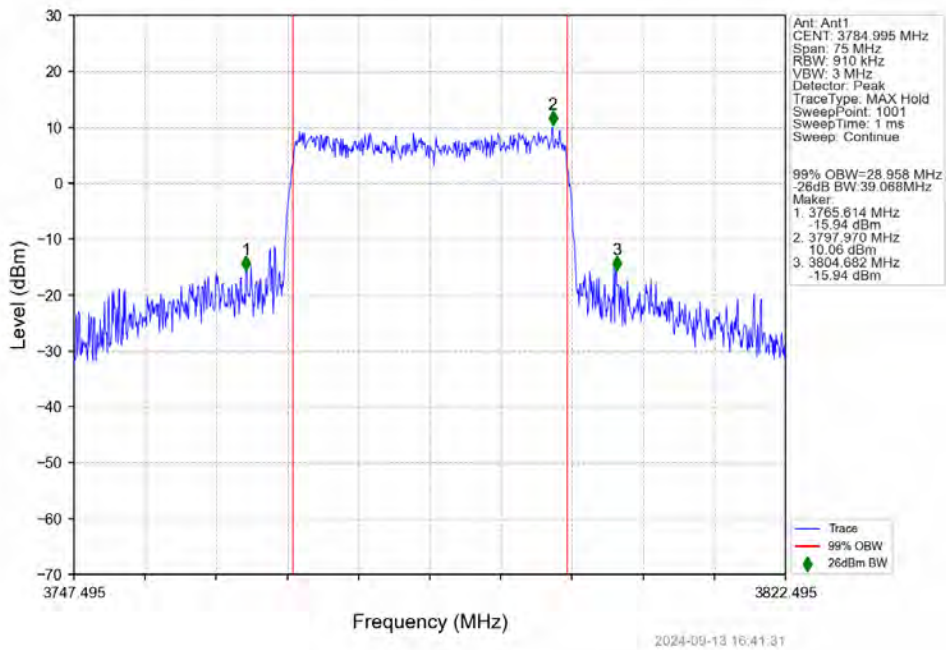
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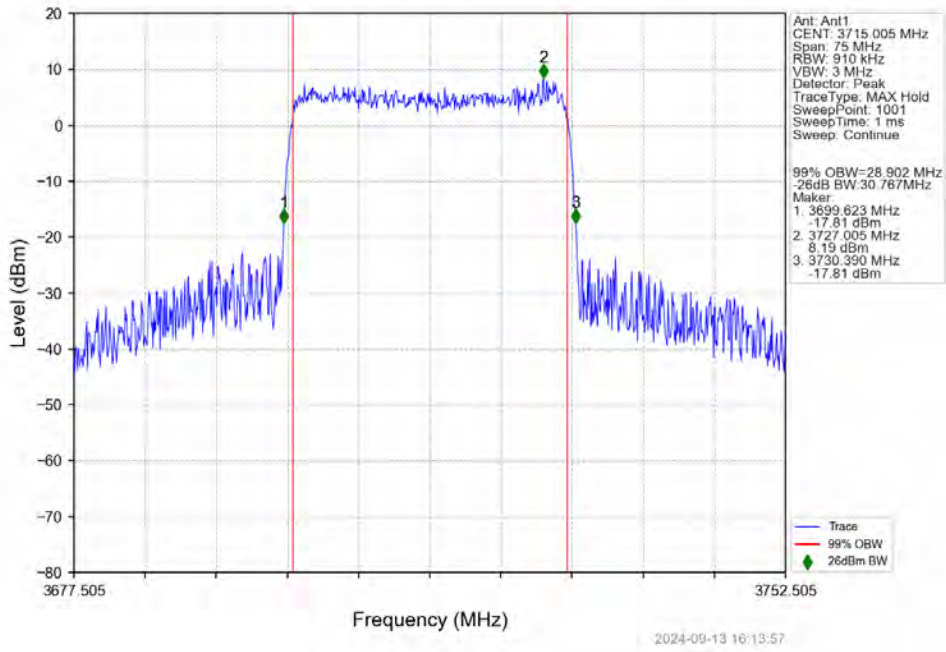
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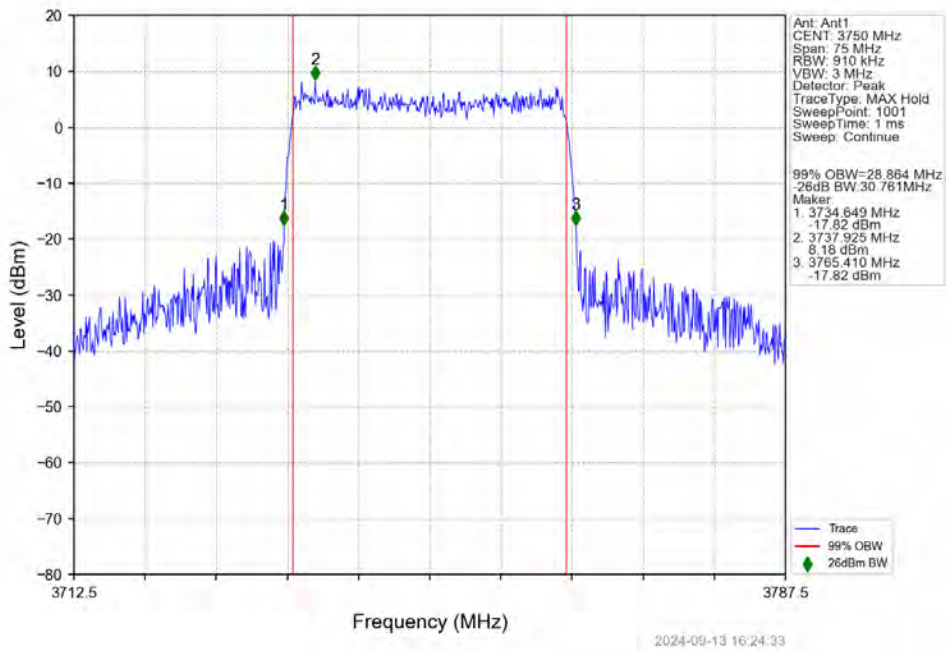
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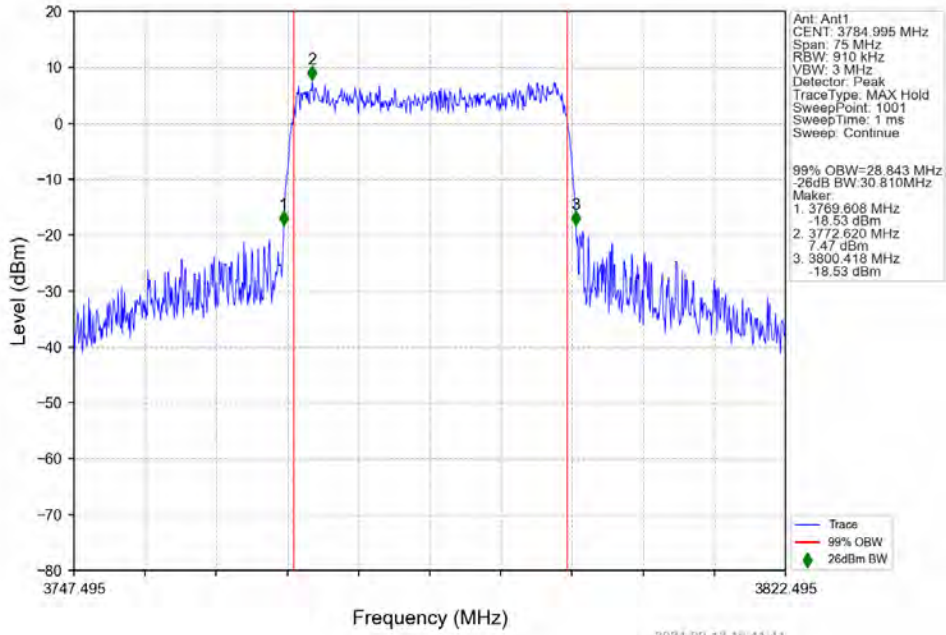


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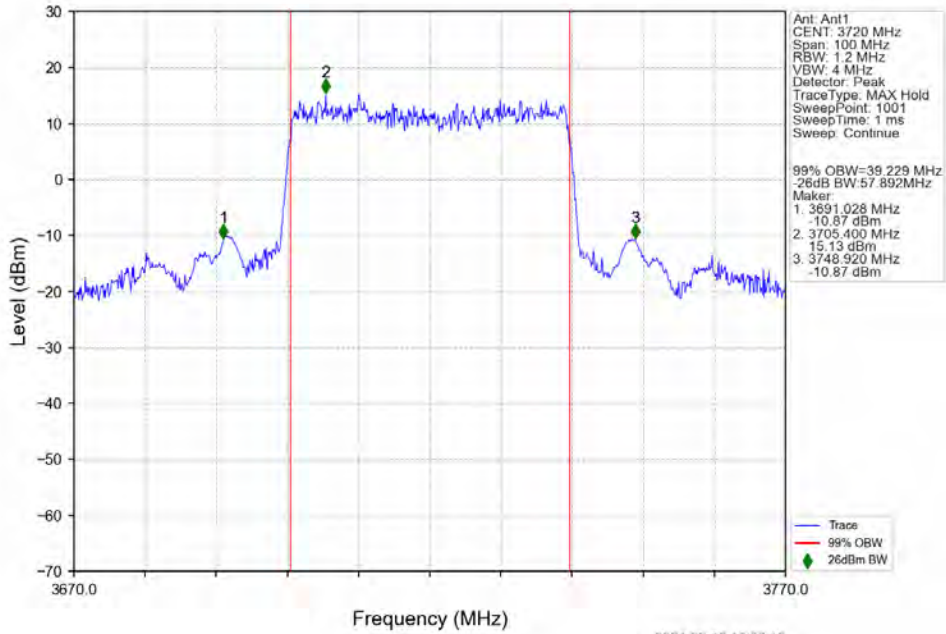


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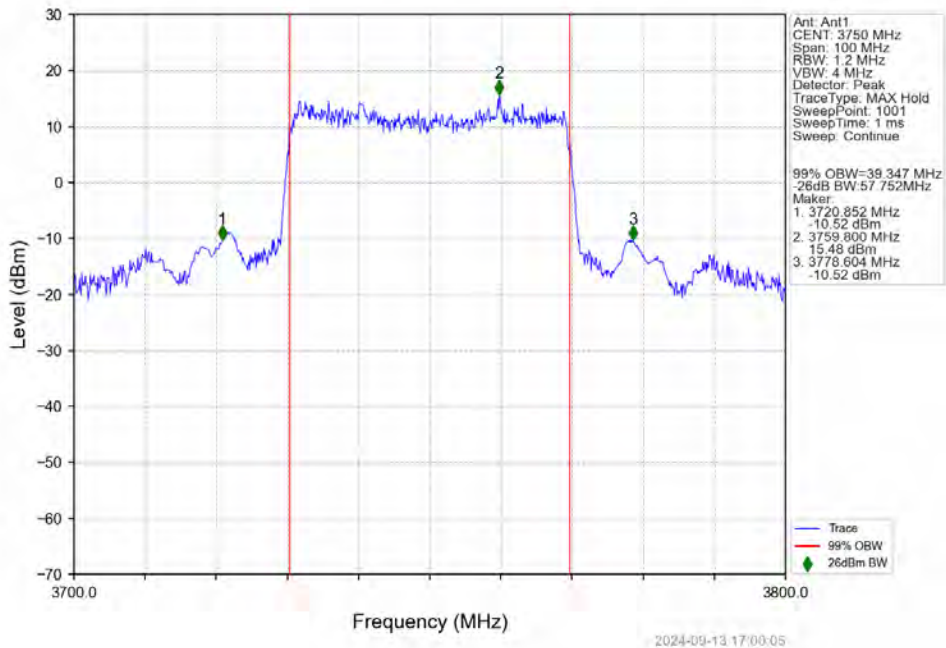


4.2.6 15k\_SISO\_40MHz\_NTNV

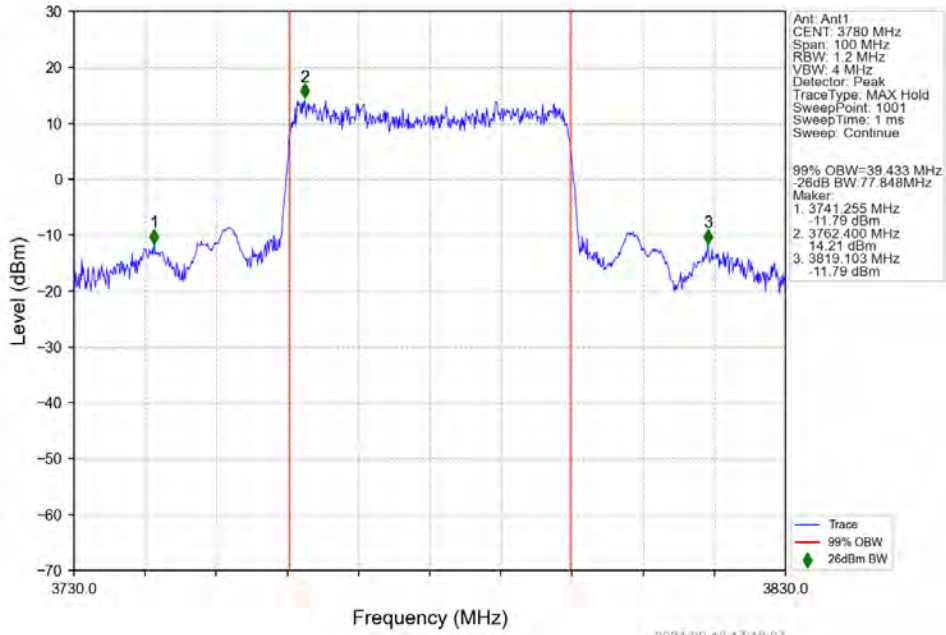
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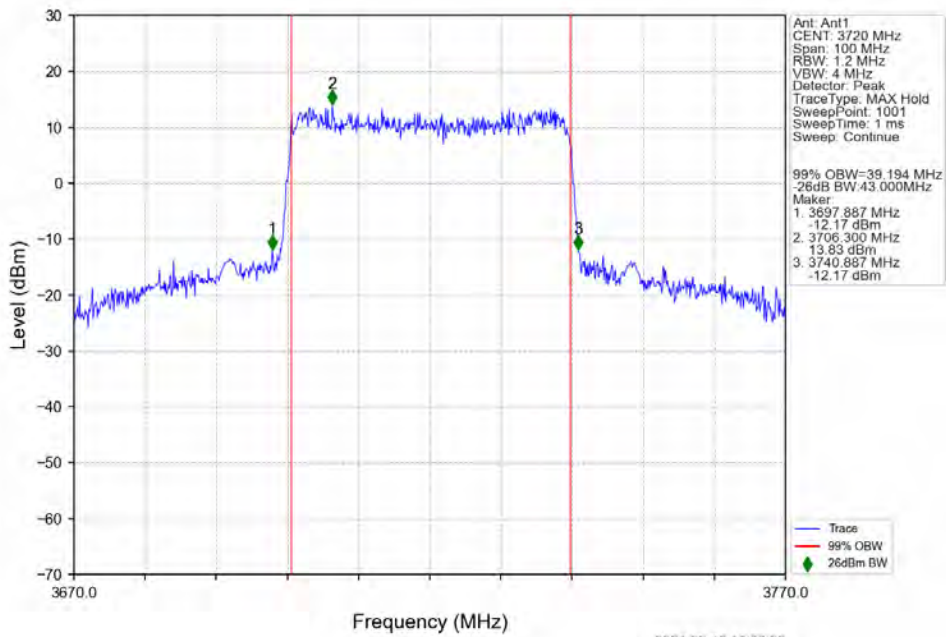
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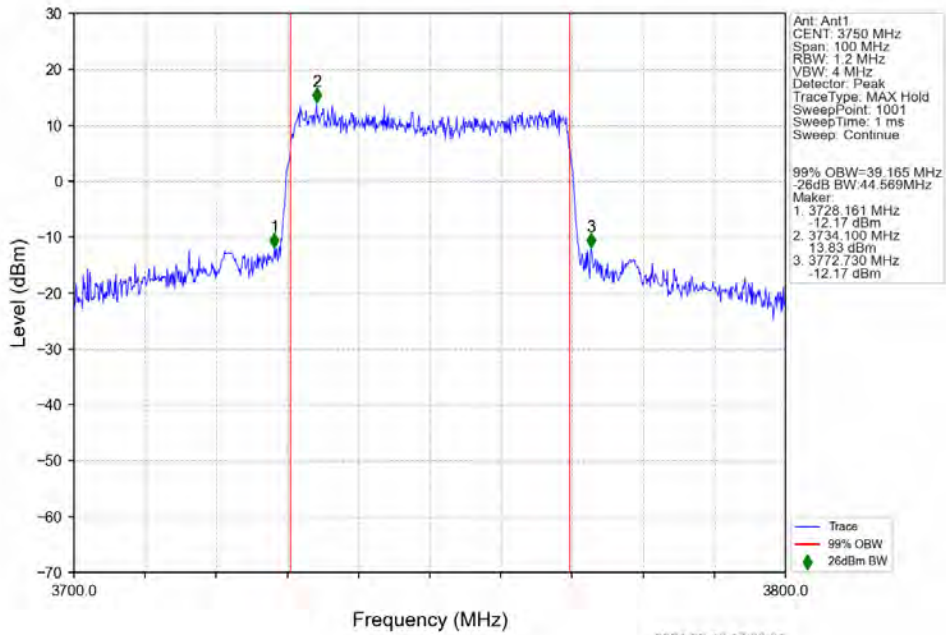
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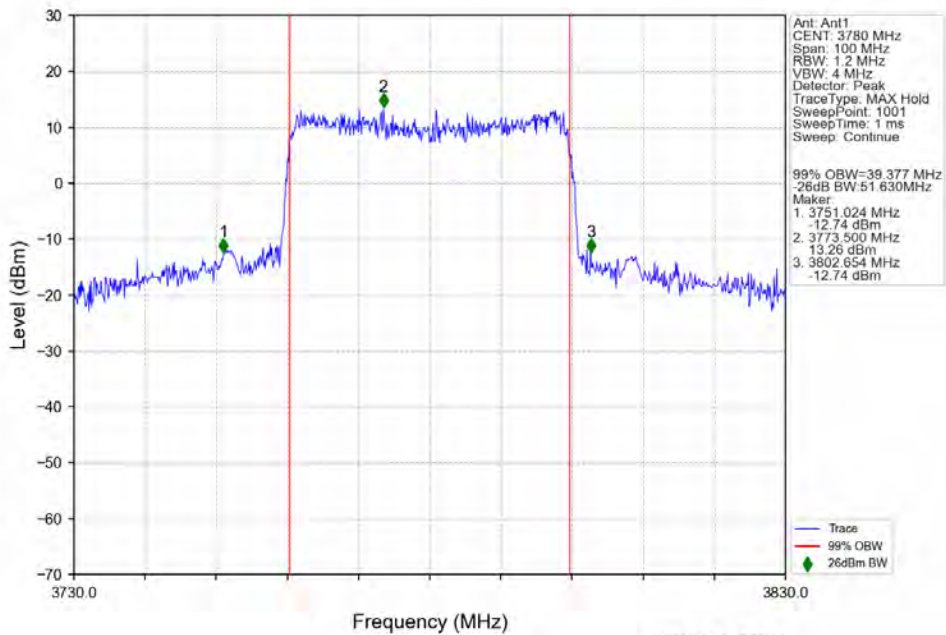
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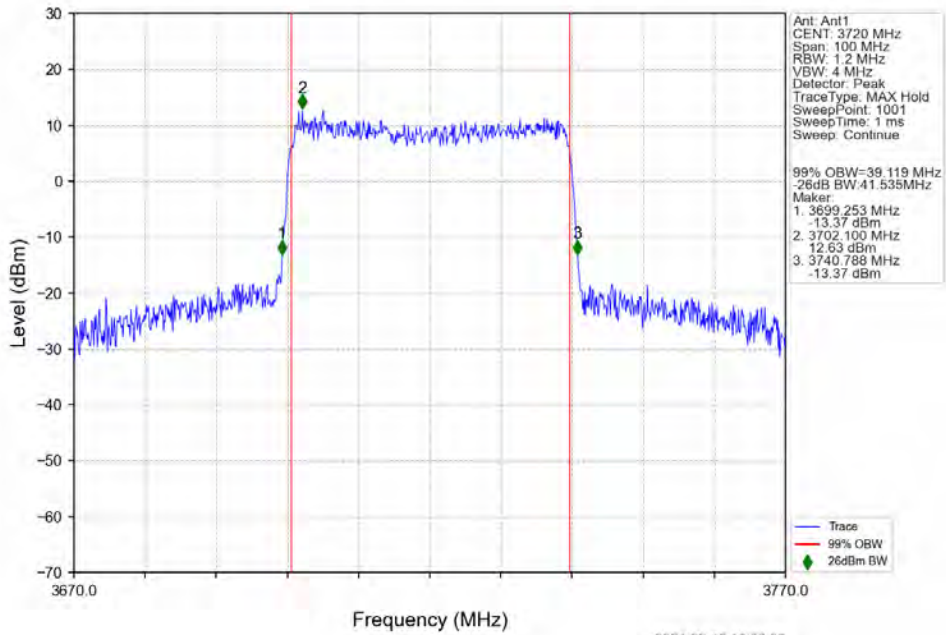
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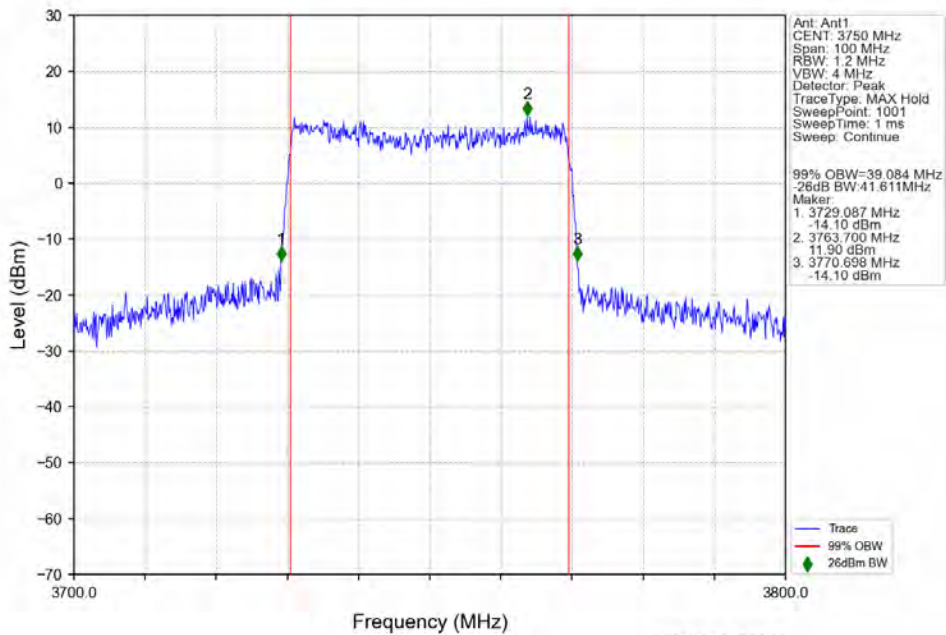
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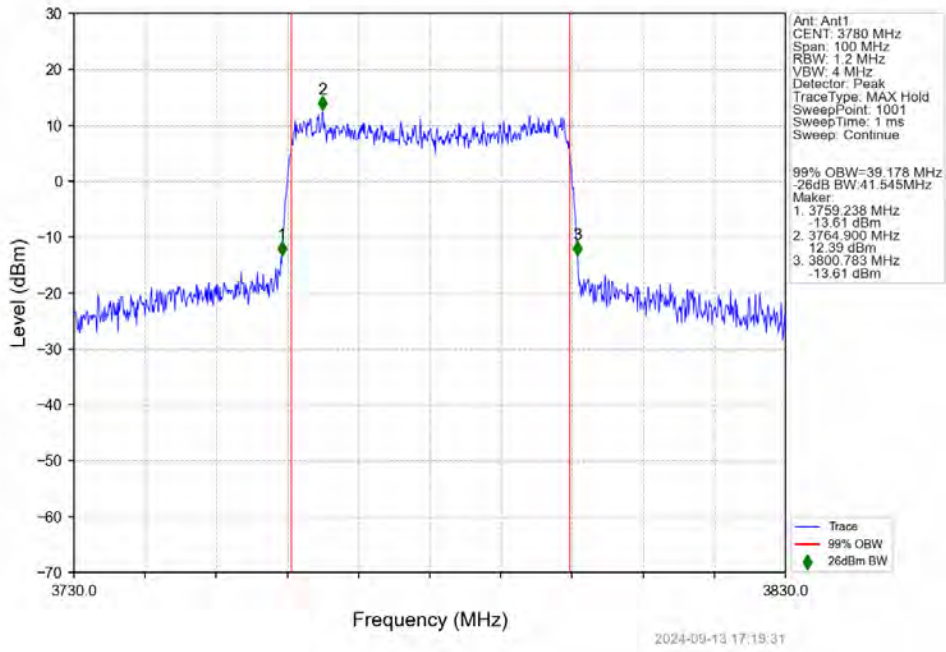
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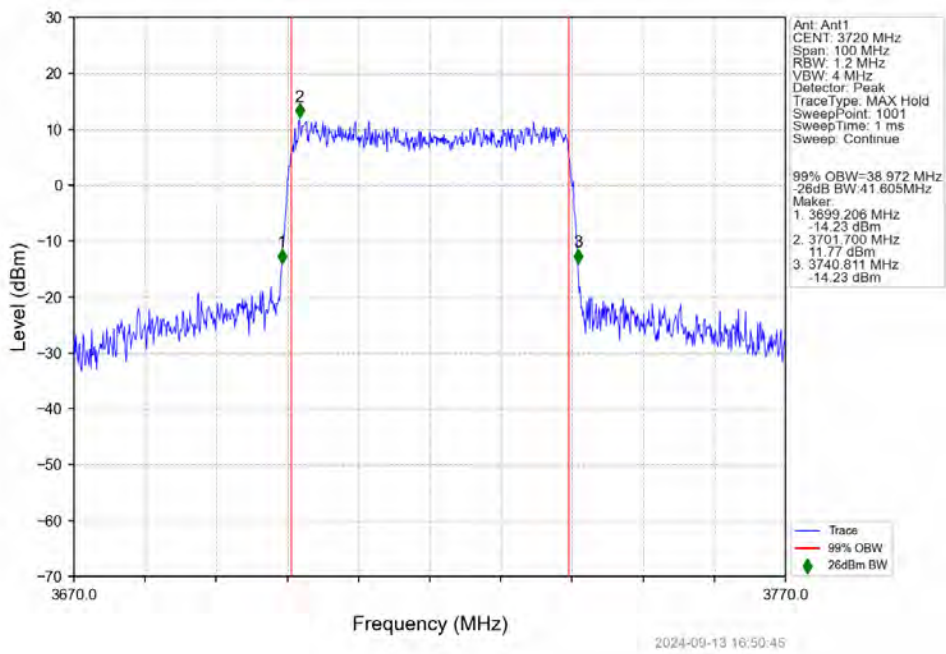
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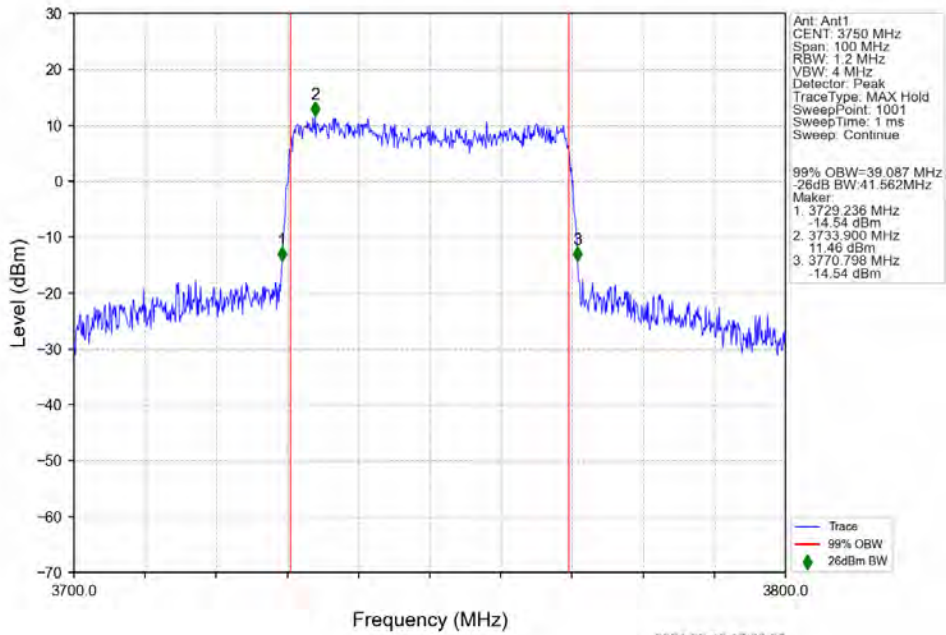
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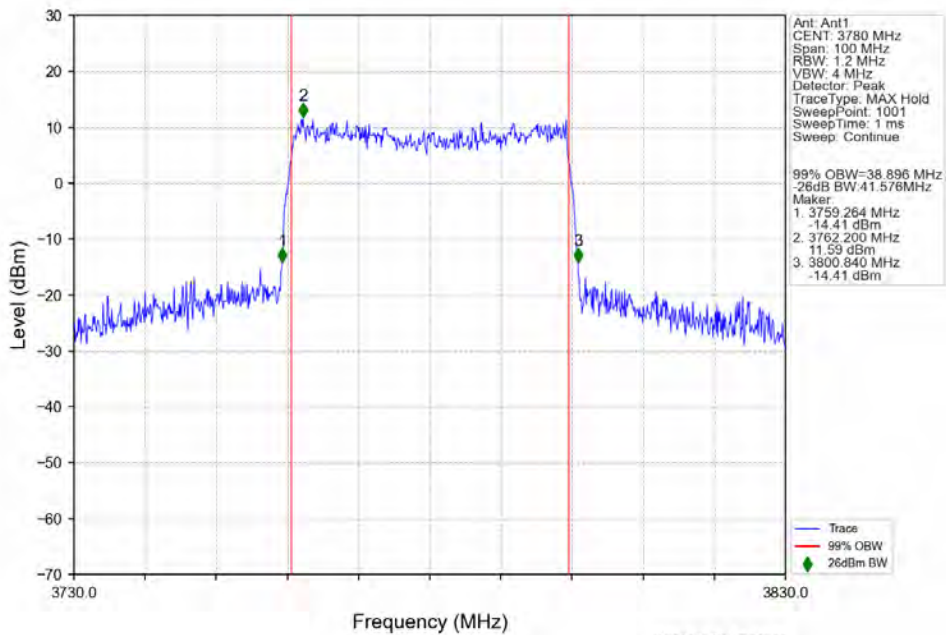
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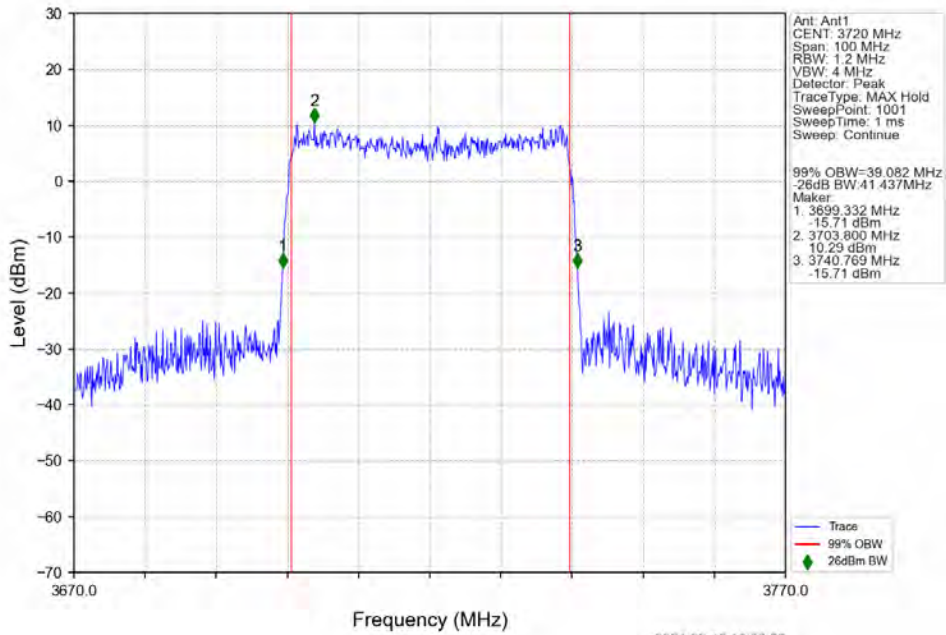
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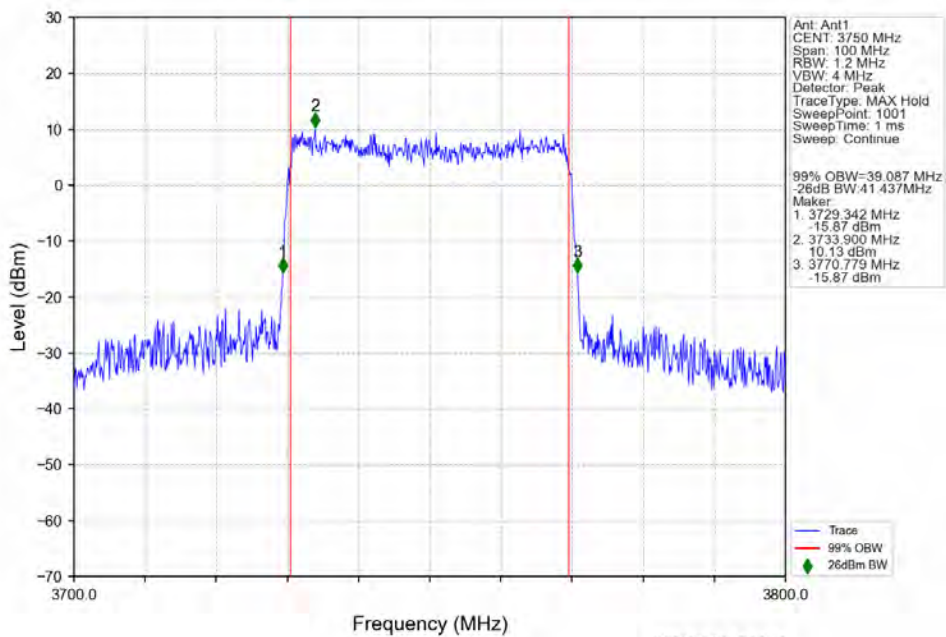
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n78a 15kHz SISO NTN 40MHz DFT-s-OFDM 256 QAM 3720MHz Outer Full

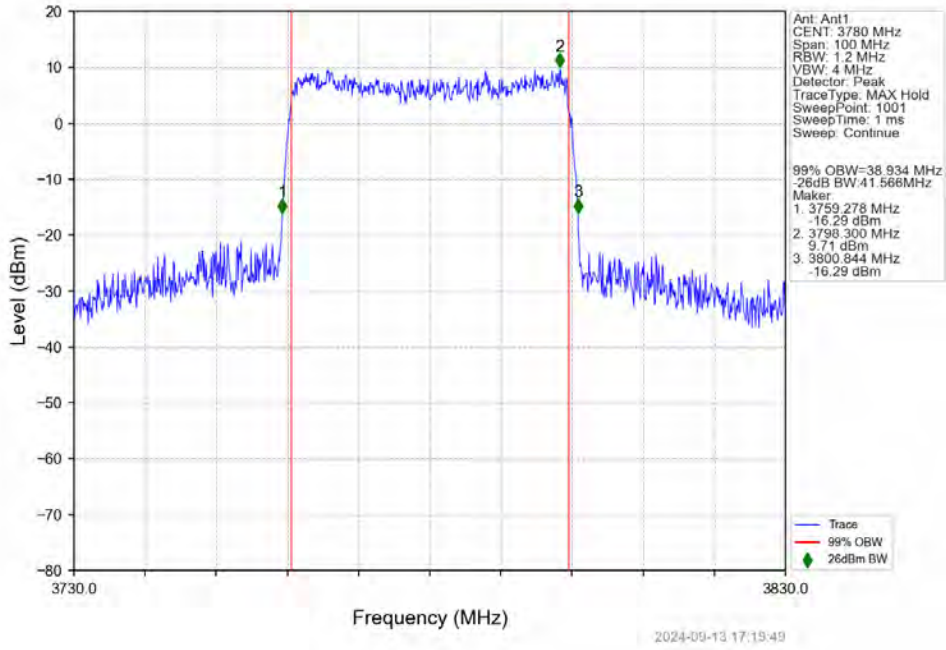


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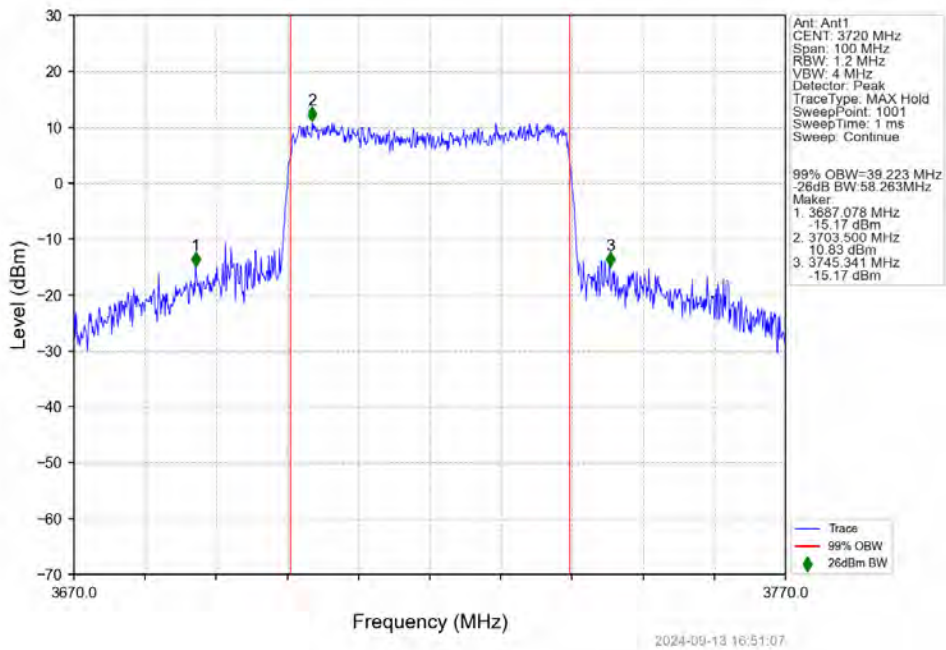




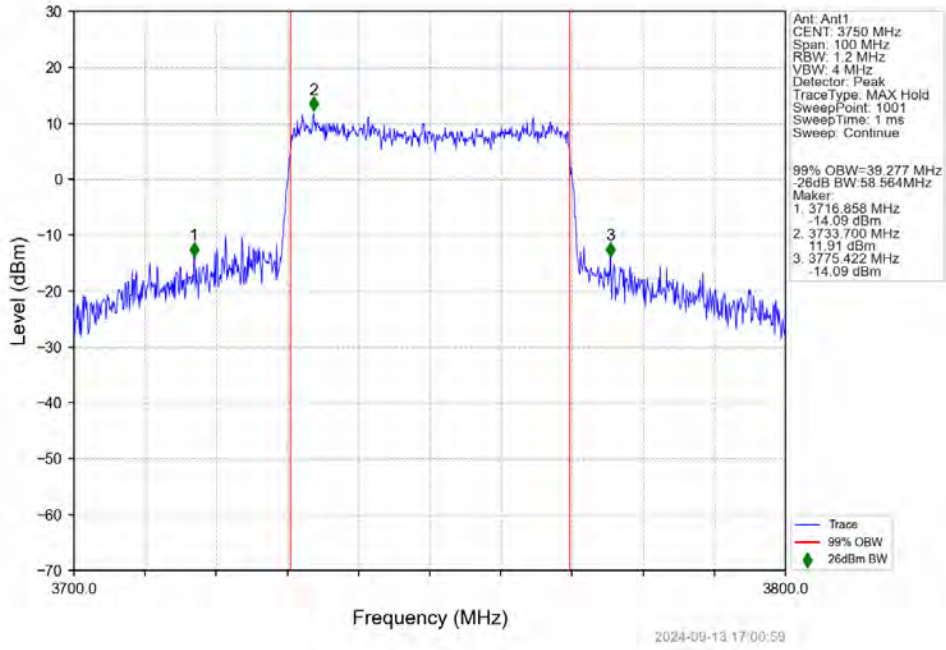
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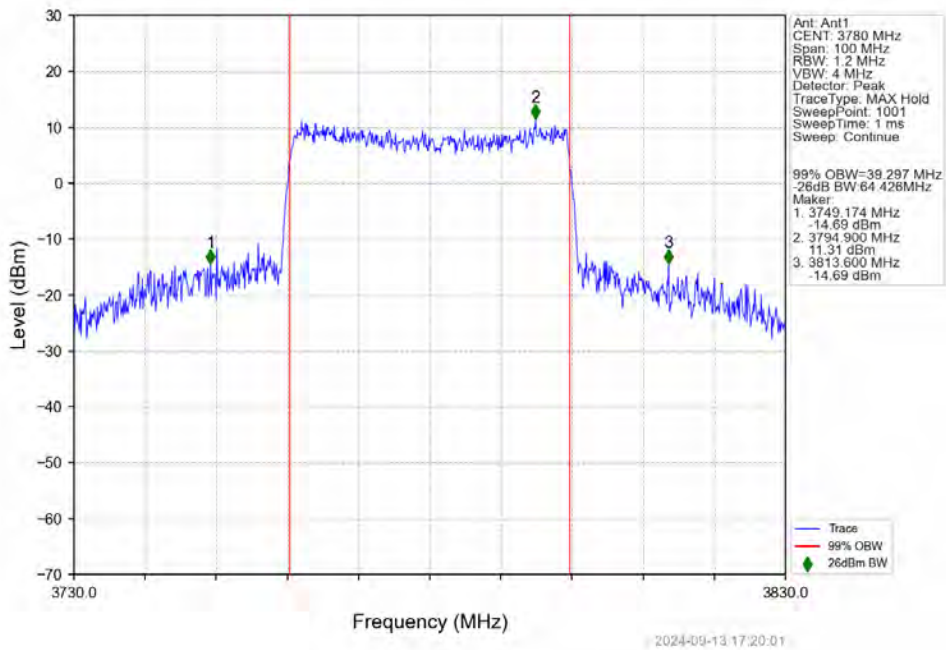
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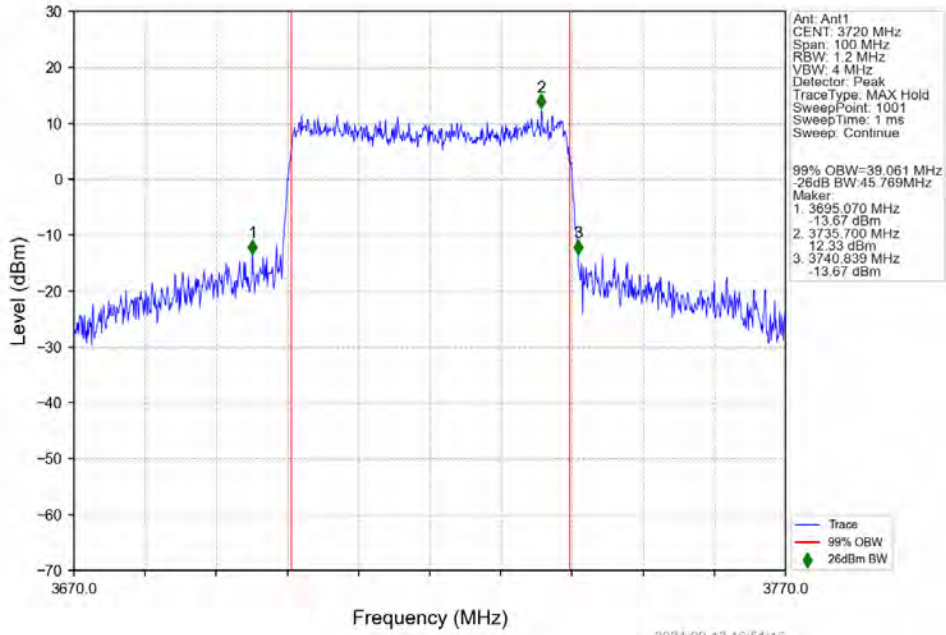
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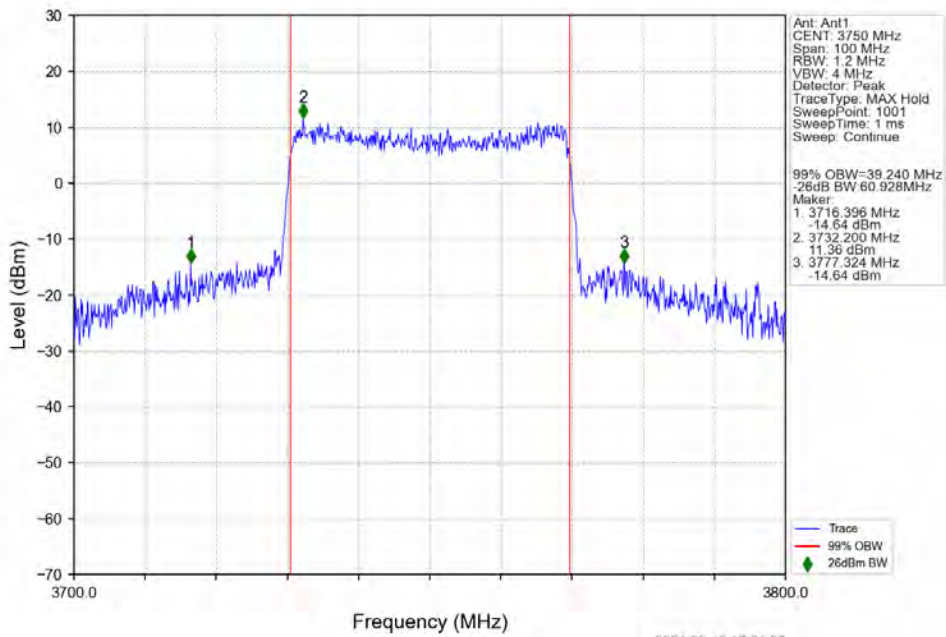
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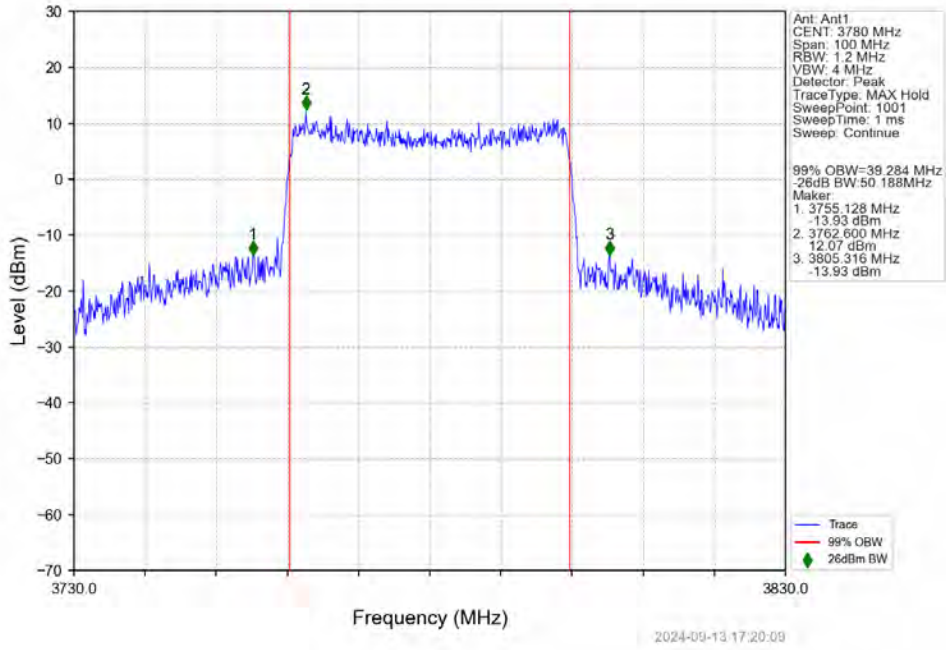
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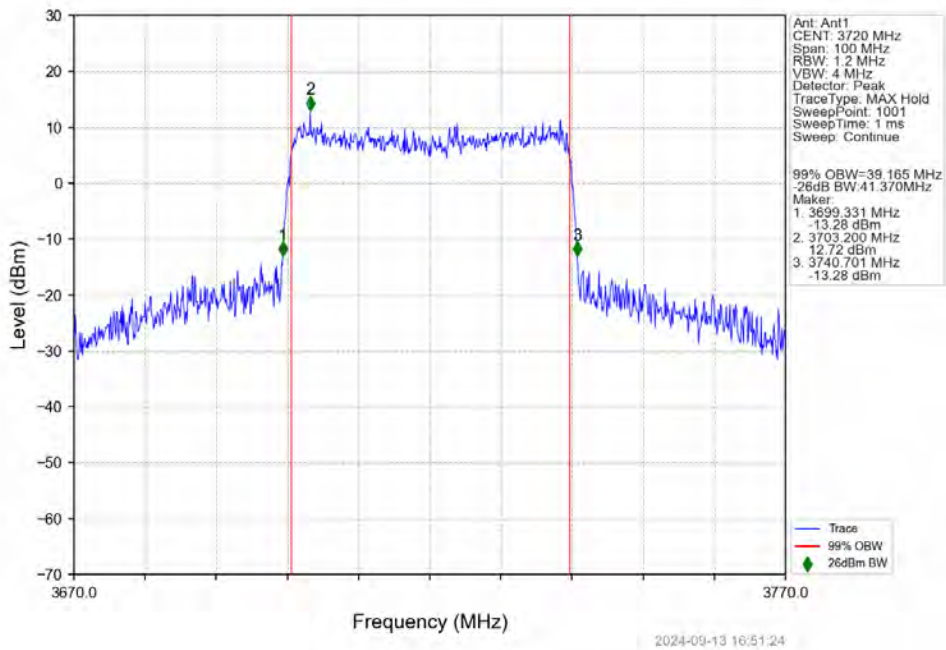
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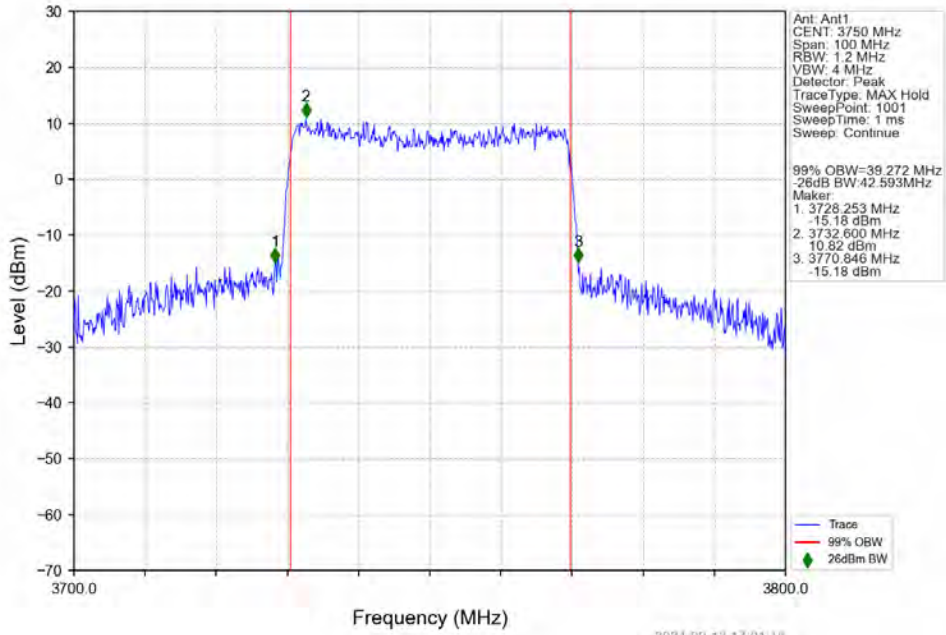
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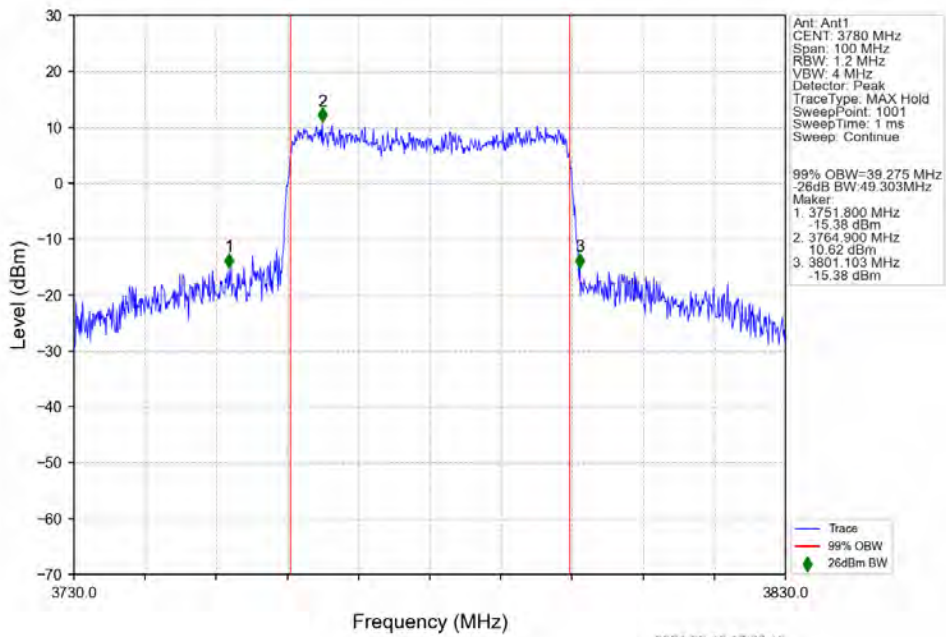
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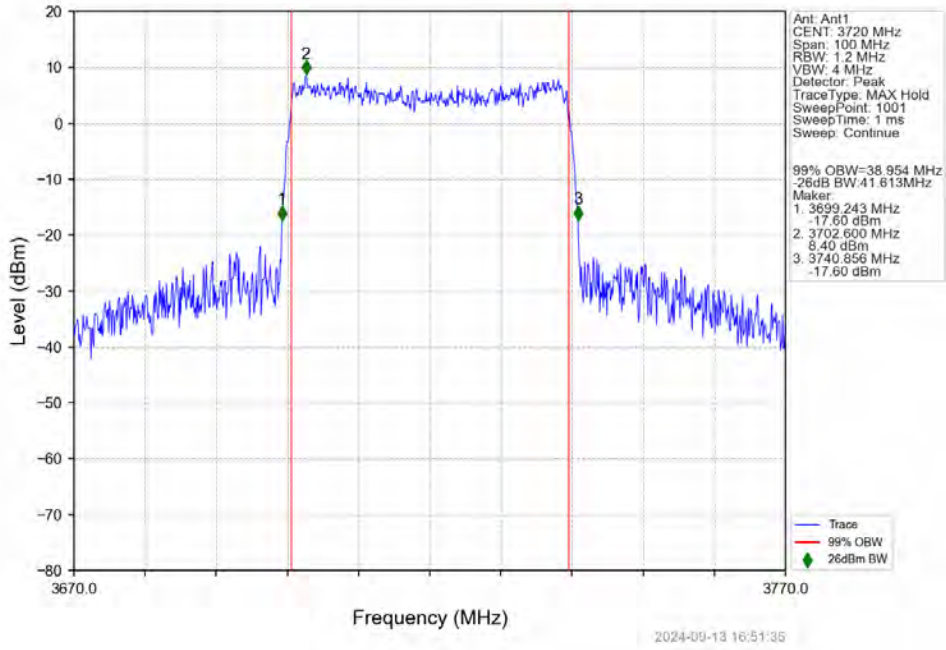
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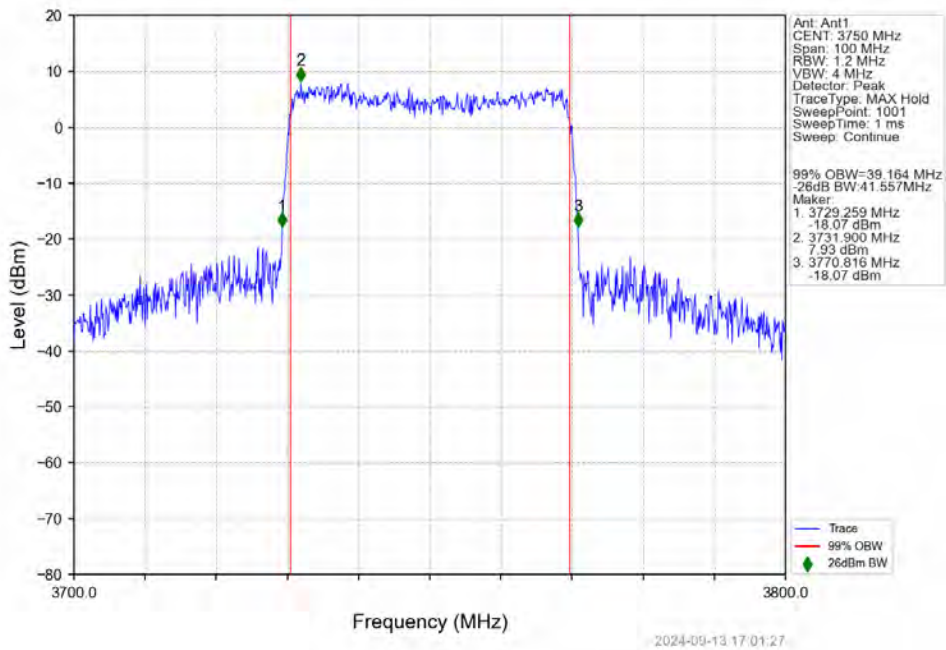
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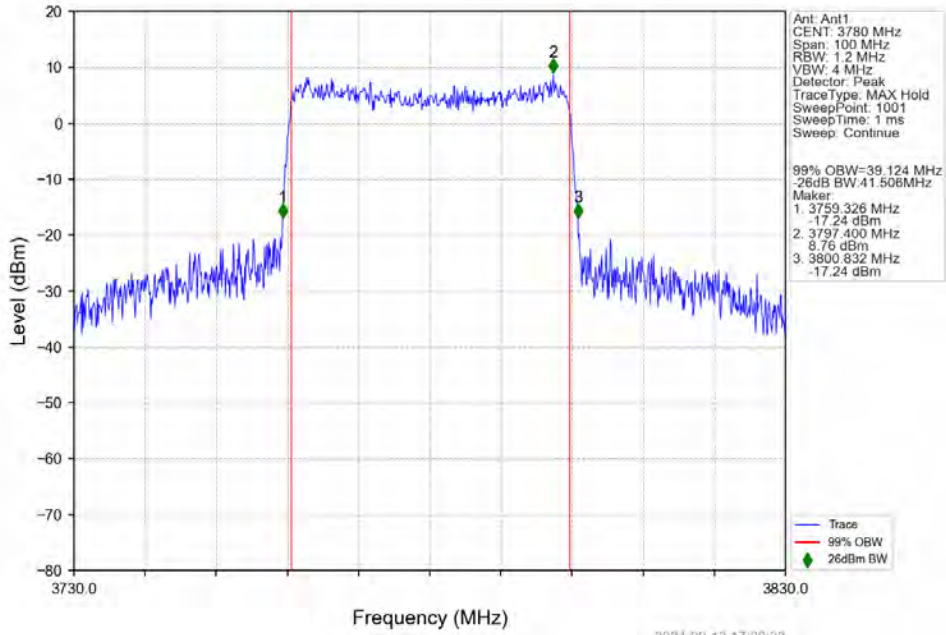
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n78a 15kHz SISO NTV 40MHz CP-OFDM 256 QAM 3750MHz Outer Full

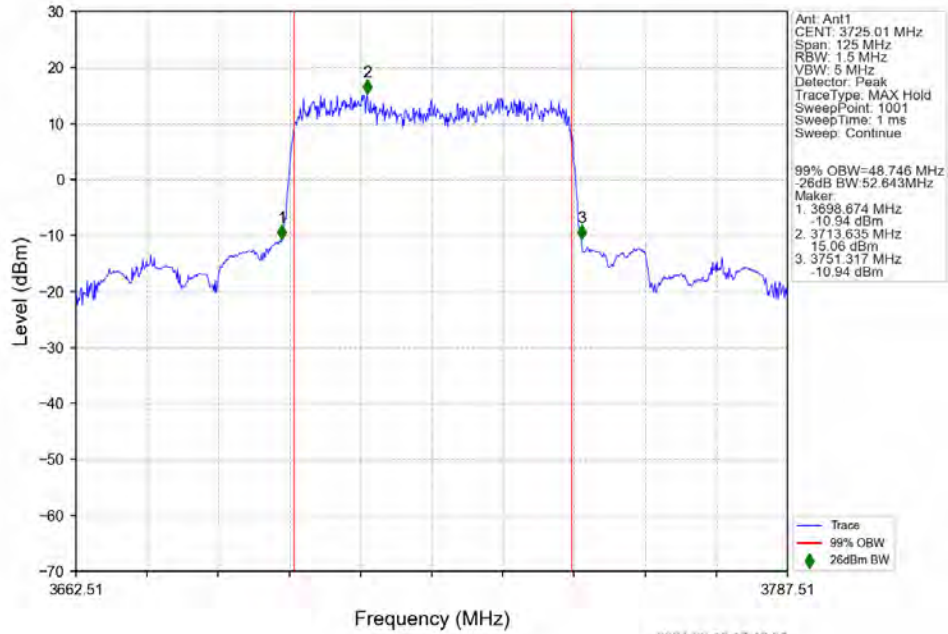


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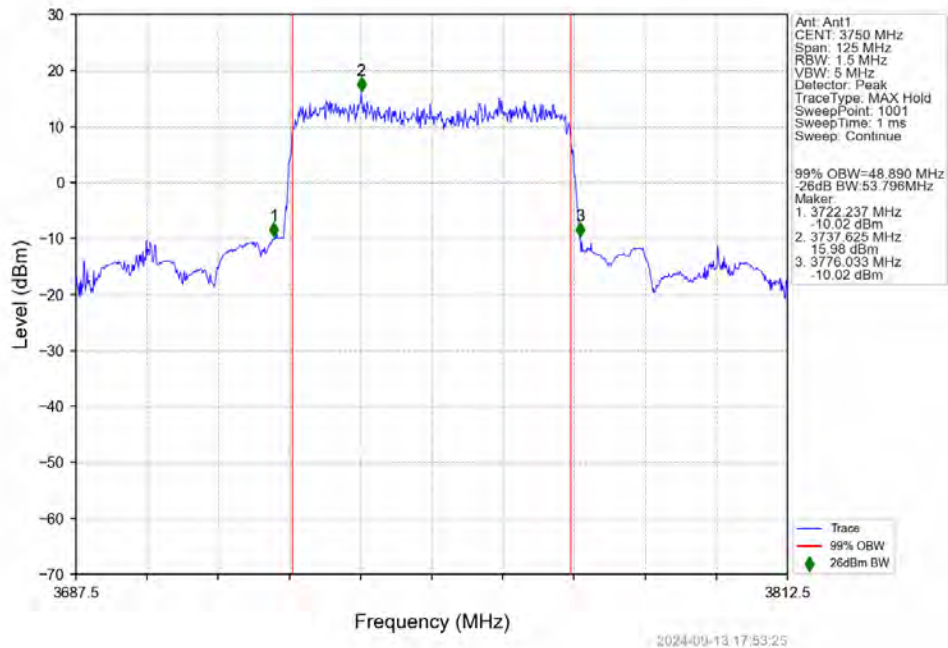


4.2.7 15k\_SISO\_50MHz\_NTNV

n78a\_15kHz\_SISO\_NTNV\_50MHz\_DFT-s-OFDM\_PI/2\_BPSK\_3725.01MHz\_Outer\_Full

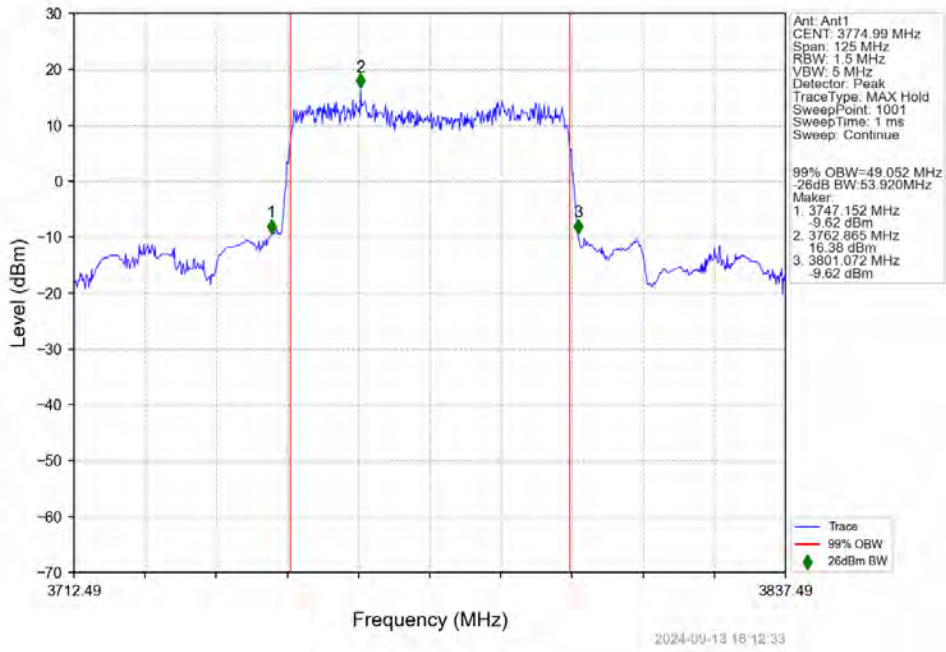


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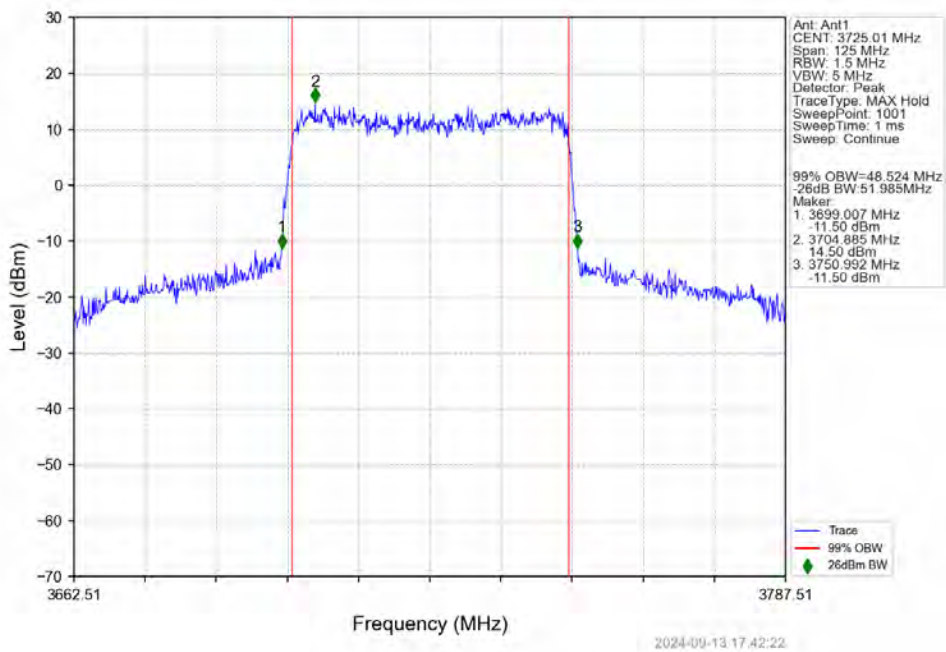




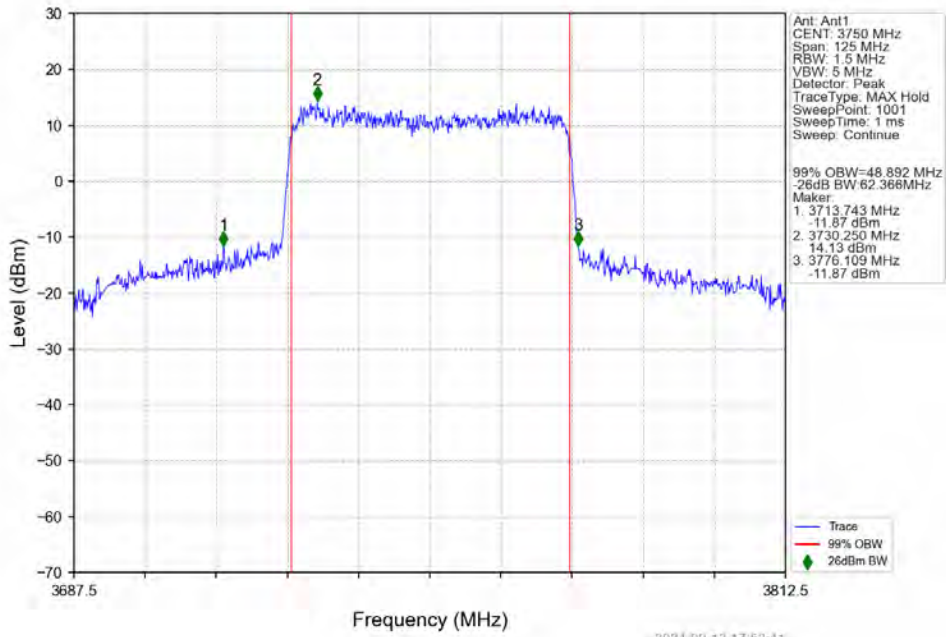
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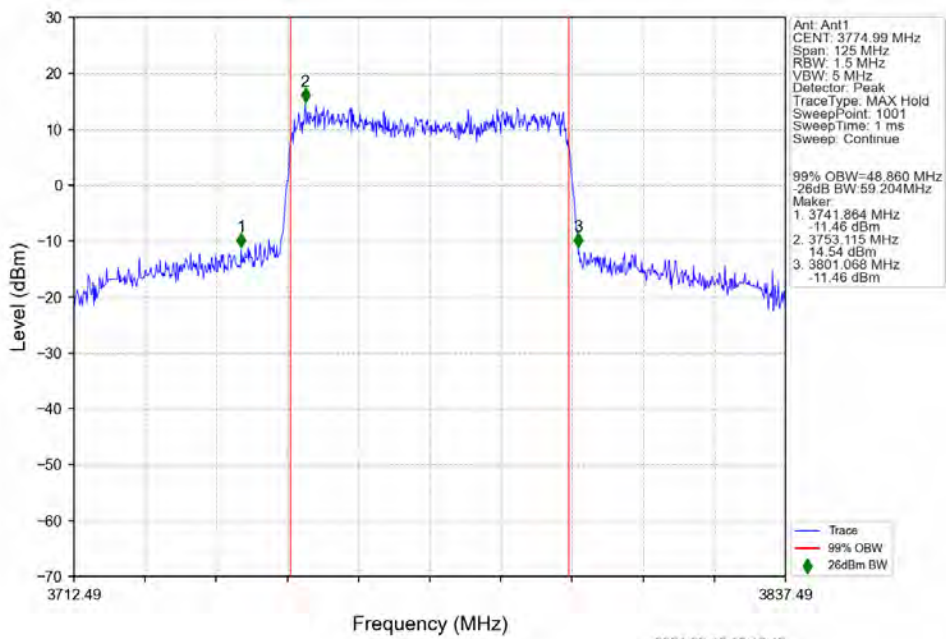
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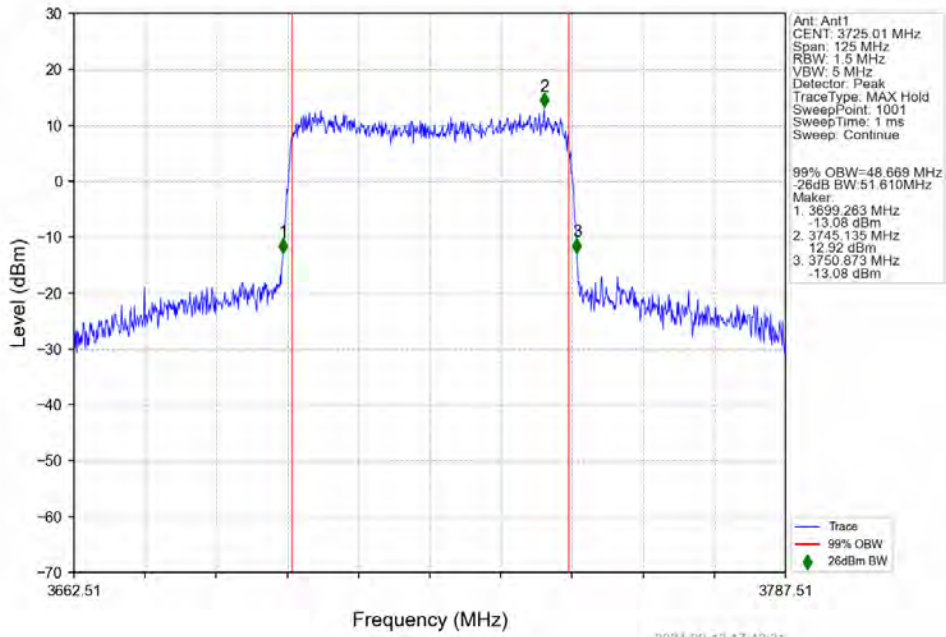
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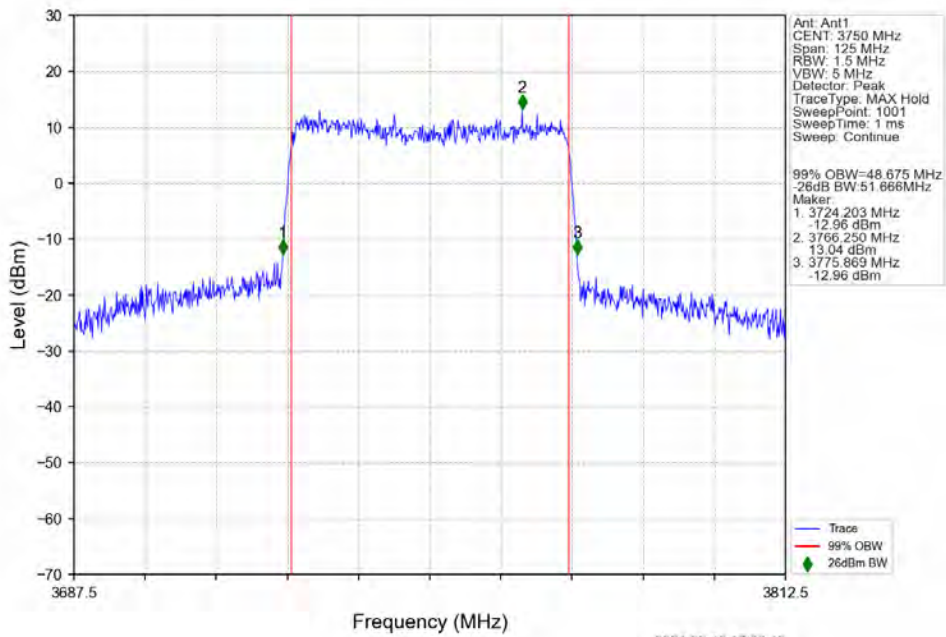
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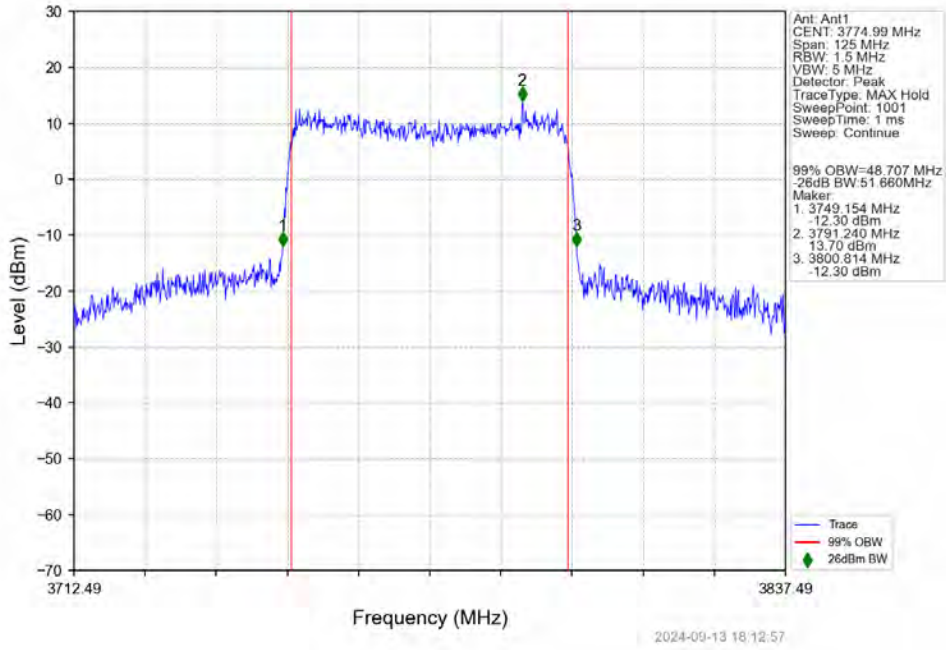
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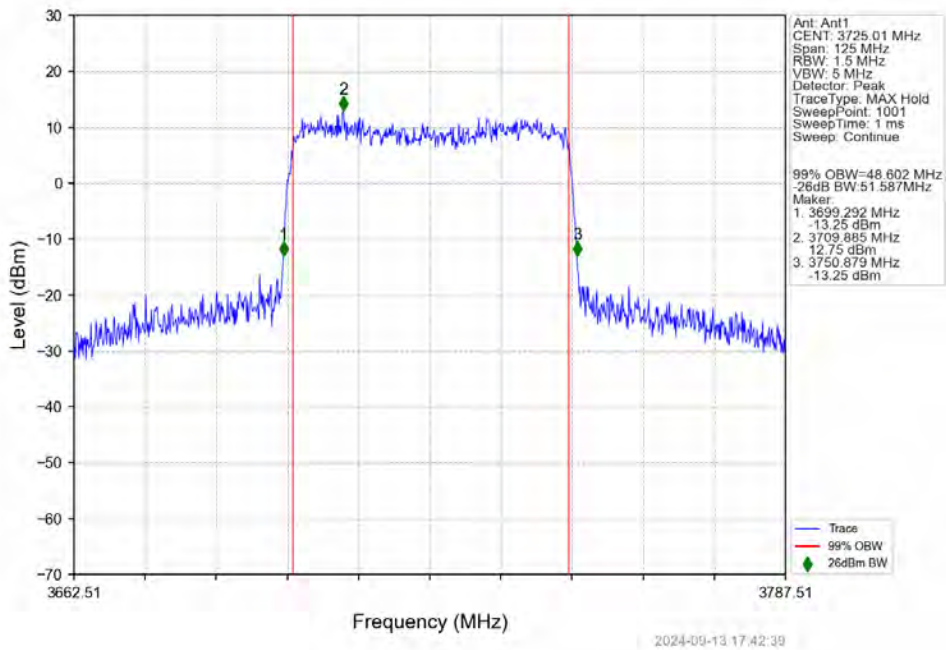
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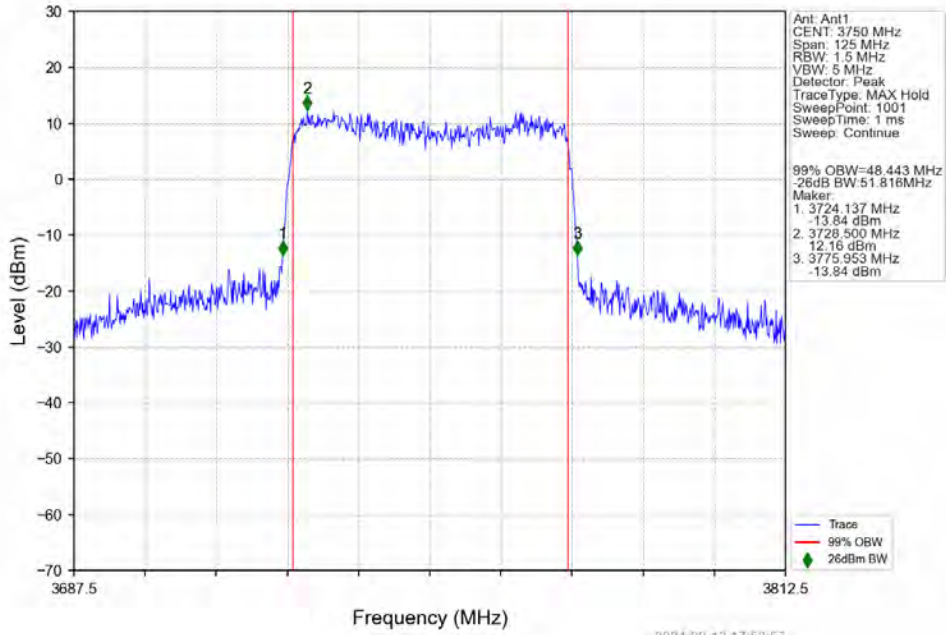
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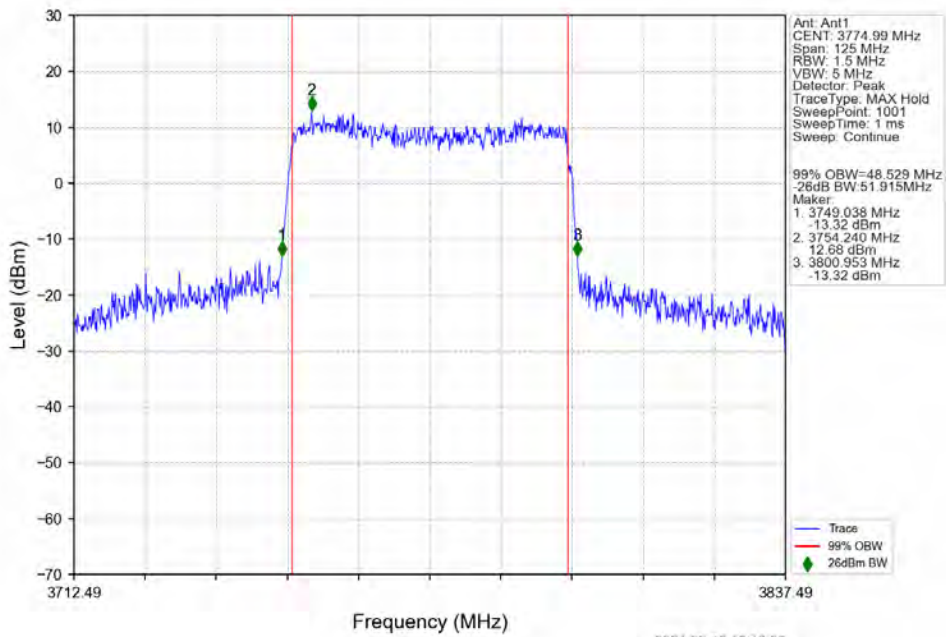
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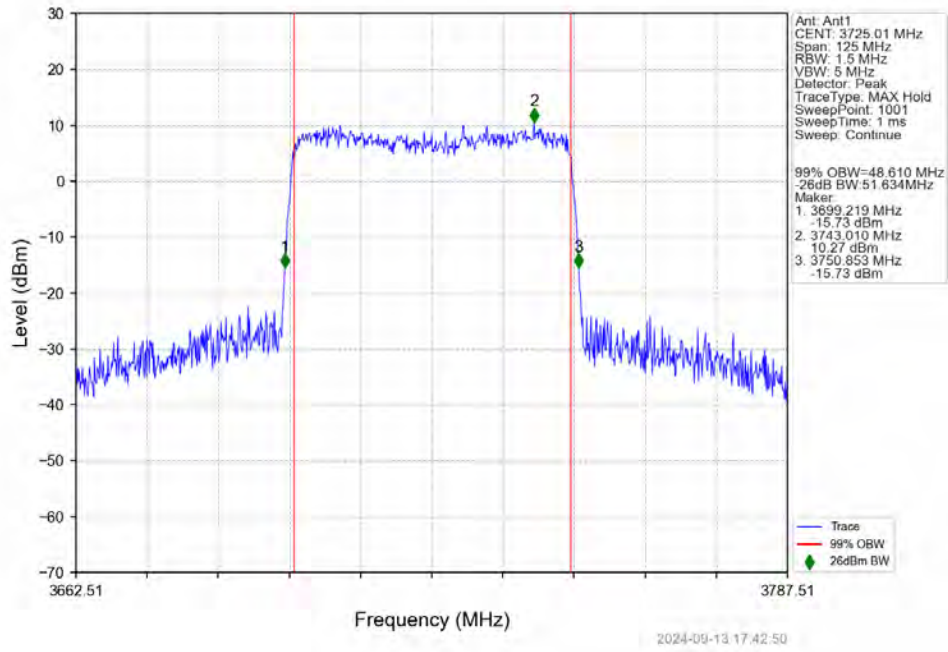
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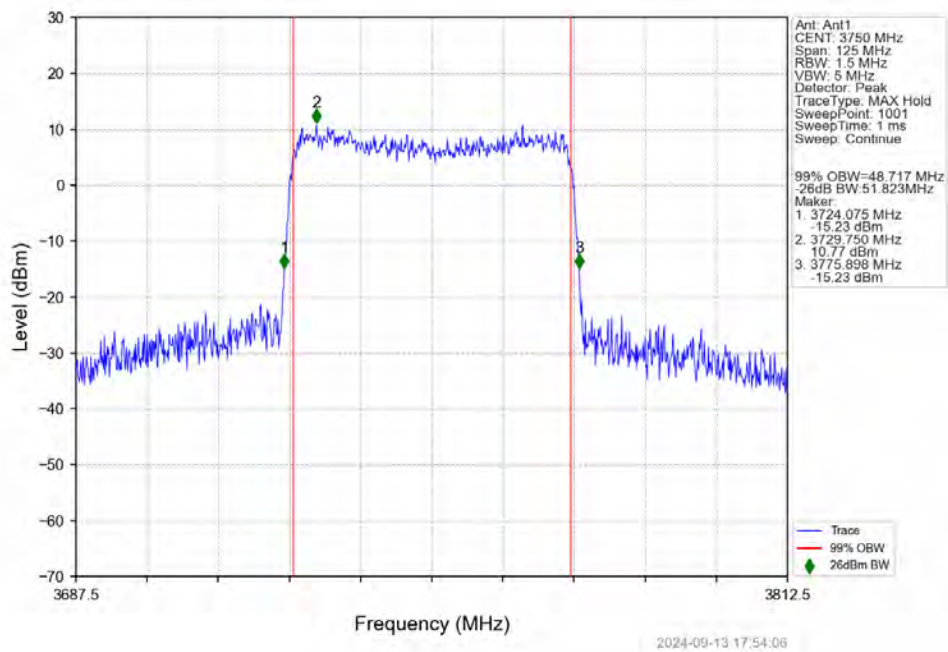
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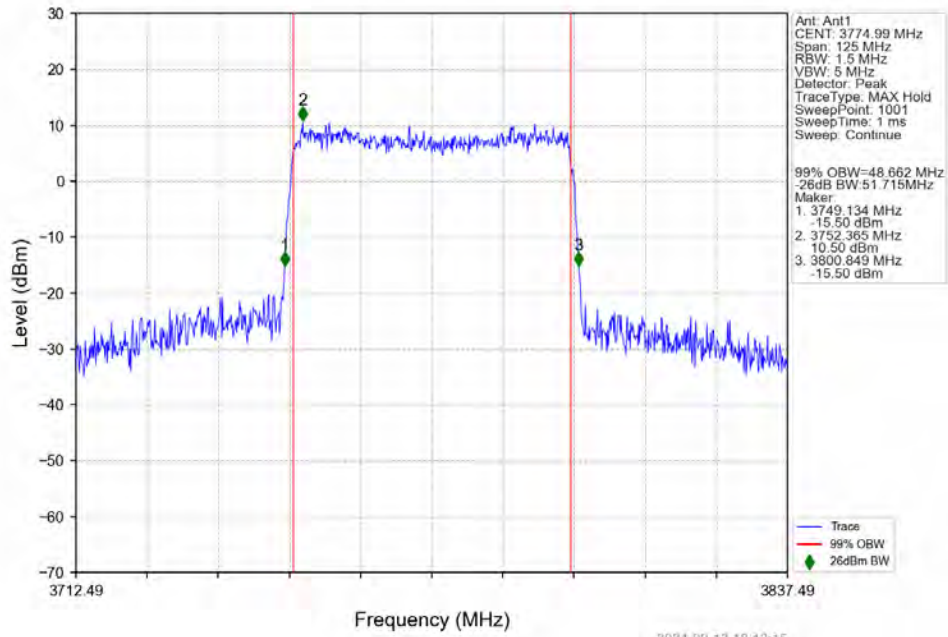
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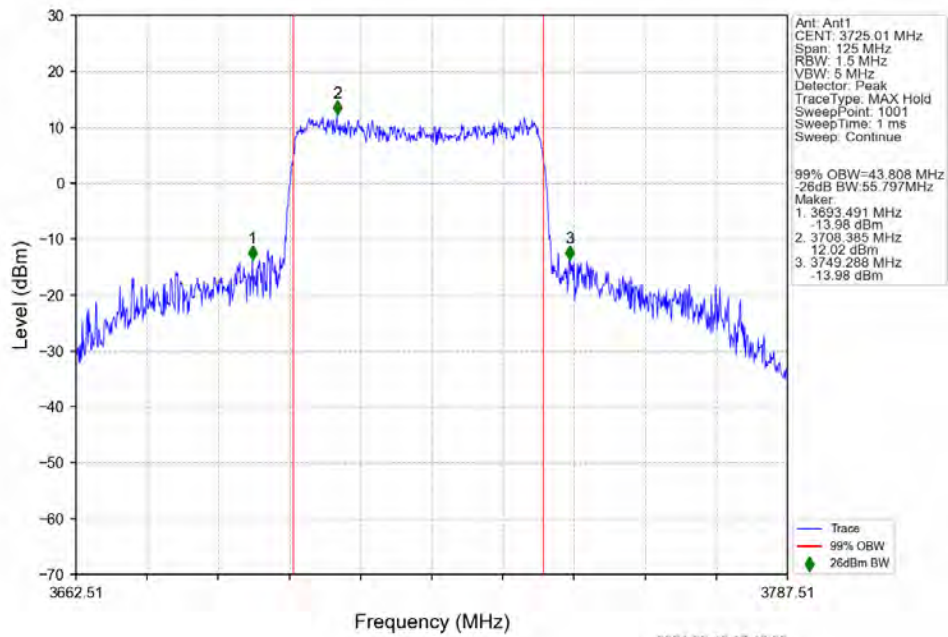
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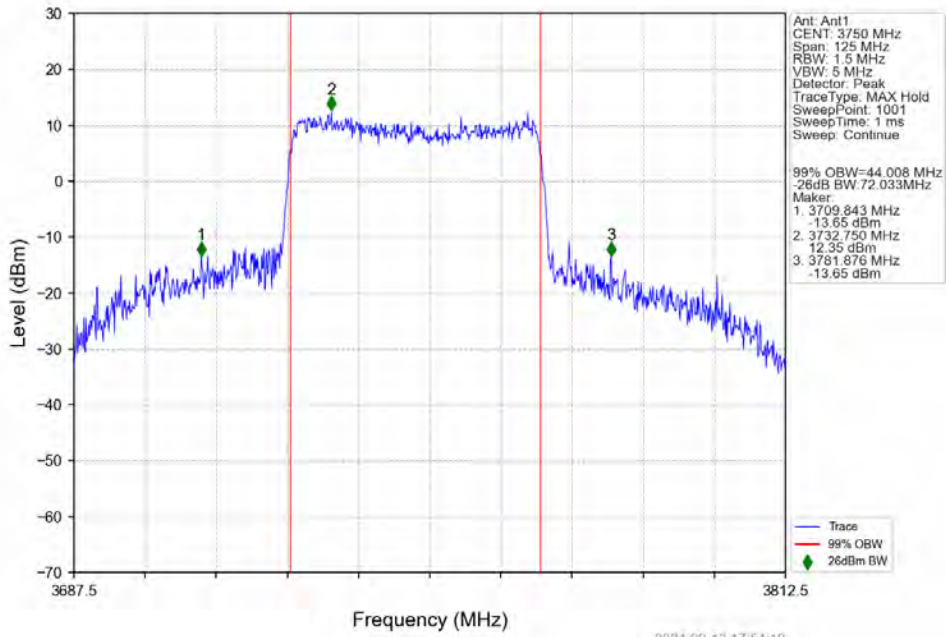
n78a 15kHz SISO NTN 50MHz DFT-s-OFDM 256 QAM 3774.99MHz Outer Full



n78a 15kHz SISO NTN 50MHz CP-OFDM QPSK 3725.01MHz Outer Full



n78a 15kHz SISO NTN 50MHz CP-OFDM QPSK 3750MHz Outer Full



n78a 15kHz SISO NTN 50MHz CP-OFDM QPSK 3774.99MHz Outer Full

