

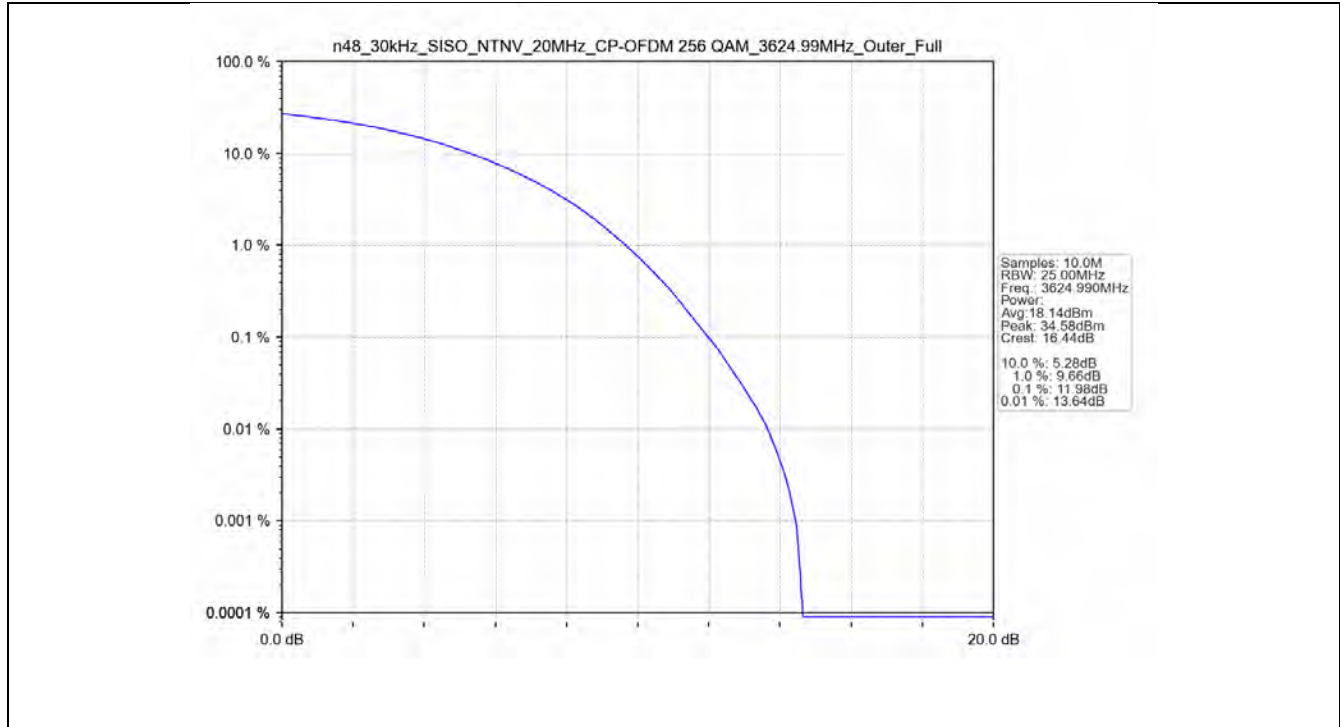


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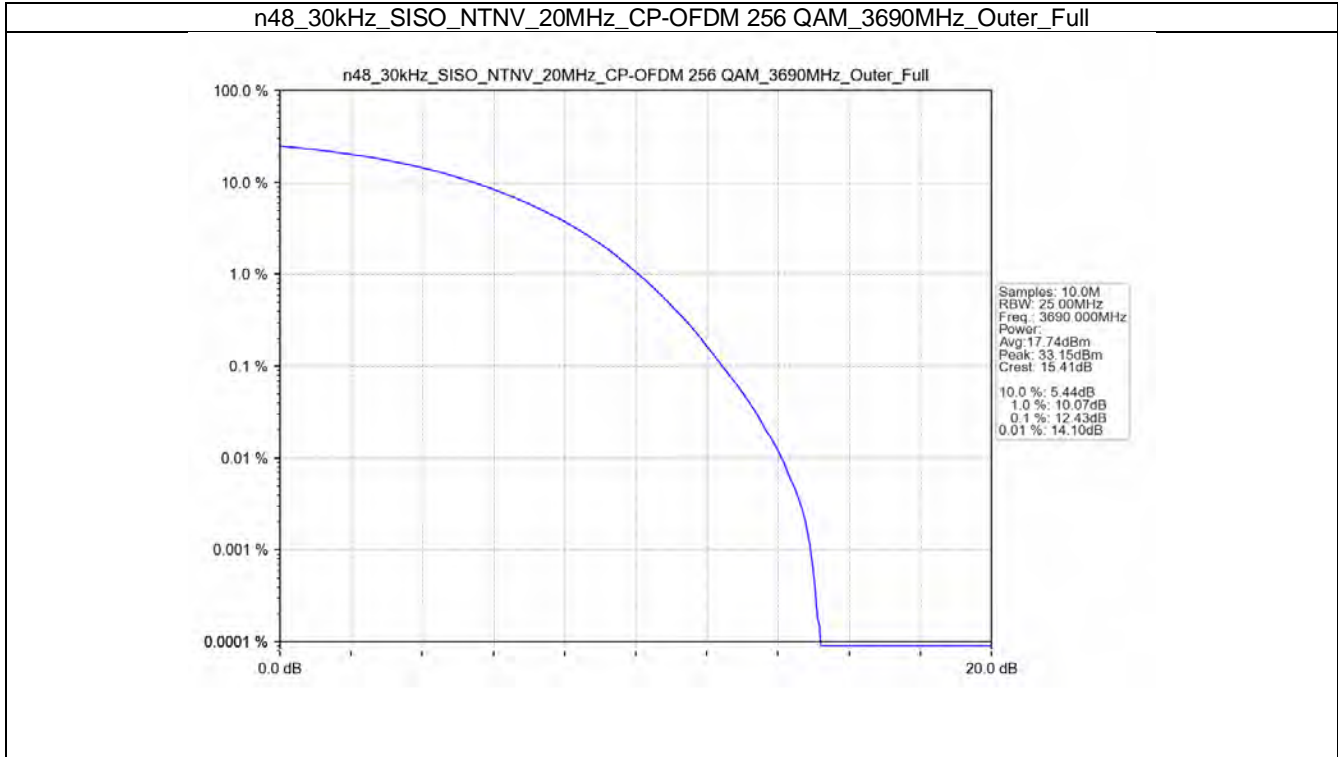
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n48_30kHz_SISO_NTNV_20MHz_CP-OFDM 256 QAM_3690MHz_Outer_Full



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4.3 30k_SISO_40MHz_NTNV

4.3.1 Test Result

5G NR n48 SCS=30kHz SISO 40MHz NNTV							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant4	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3570	Outer_Full	8.66	/	/	<=13	Pass
	3624.99	Outer_Full	10.84	/	/	<=13	Pass
	3679.98	Outer_Full	8.55	/	/	<=13	Pass
DFT-s-OFDM QPSK	3570	Outer_Full	9.88	/	/	<=13	Pass
	3624.99	Outer_Full	9.56	/	/	<=13	Pass
	3679.98	Outer_Full	10.02	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3570	Outer_Full	10.55	/	/	<=13	Pass
	3624.99	Outer_Full	11.73	/	/	<=13	Pass
	3679.98	Outer_Full	10.63	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3570	Outer_Full	10.51	/	/	<=13	Pass
	3624.99	Outer_Full	10.94	/	/	<=13	Pass
	3679.98	Outer_Full	11.02	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3570	Outer_Full	10.77	/	/	<=13	Pass
	3624.99	Outer_Full	10.77	/	/	<=13	Pass
	3679.98	Outer_Full	11.29	/	/	<=13	Pass
CP-OFDM QPSK	3570	Outer_Full	12.40	/	/	<=13	Pass
	3624.99	Outer_Full	11.47	/	/	<=13	Pass
	3679.98	Outer_Full	11.59	/	/	<=13	Pass
CP-OFDM 16 QAM	3570	Outer_Full	11.93	/	/	<=13	Pass
	3624.99	Outer_Full	11.70	/	/	<=13	Pass
	3679.98	Outer_Full	12.01	/	/	<=13	Pass
CP-OFDM 64 QAM	3570	Outer_Full	11.30	/	/	<=13	Pass
	3624.99	Outer_Full	11.40	/	/	<=13	Pass
	3679.98	Outer_Full	12.50	/	/	<=13	Pass
CP-OFDM 256 QAM	3570	Outer_Full	11.46	/	/	<=13	Pass
	3624.99	Outer_Full	12.17	/	/	<=13	Pass
	3679.98	Outer_Full	11.84	/	/	<=13	Pass



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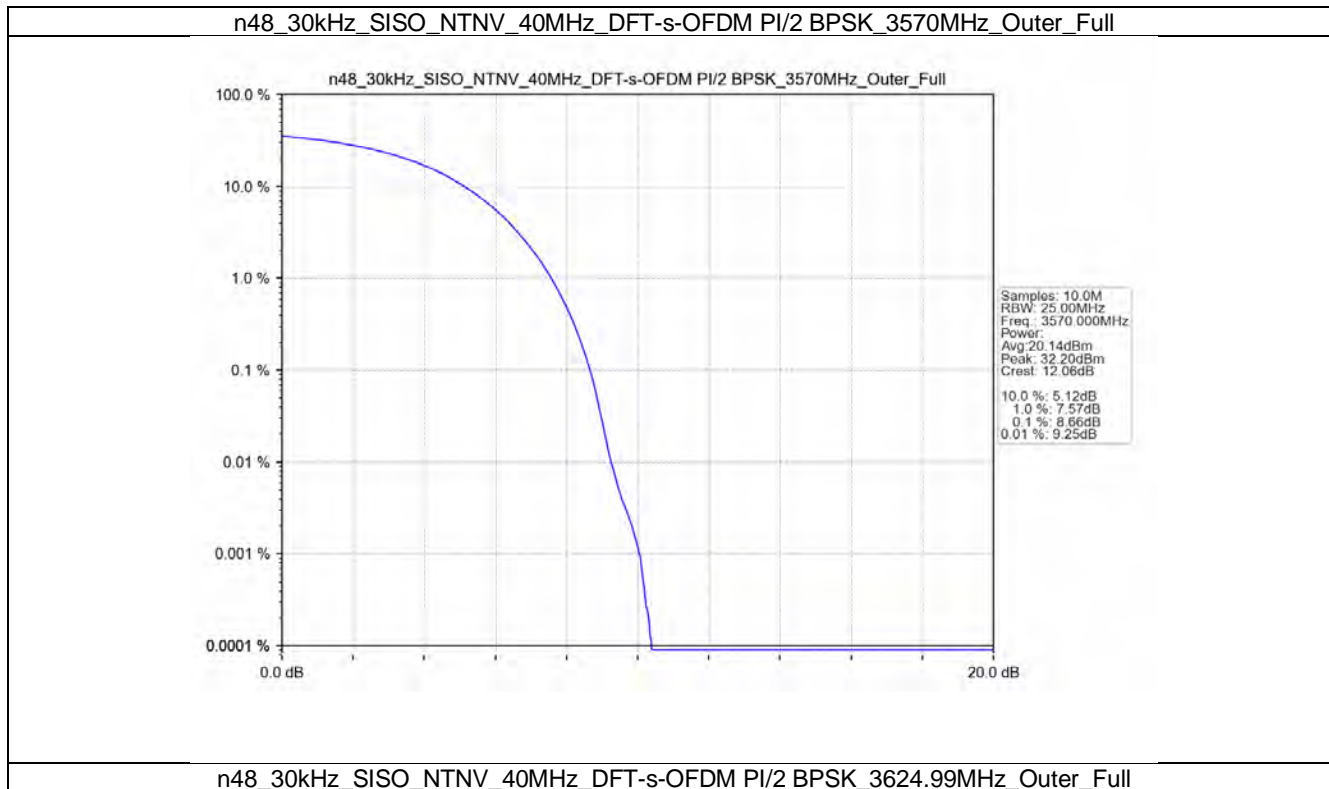
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4.3.2 Test Graph



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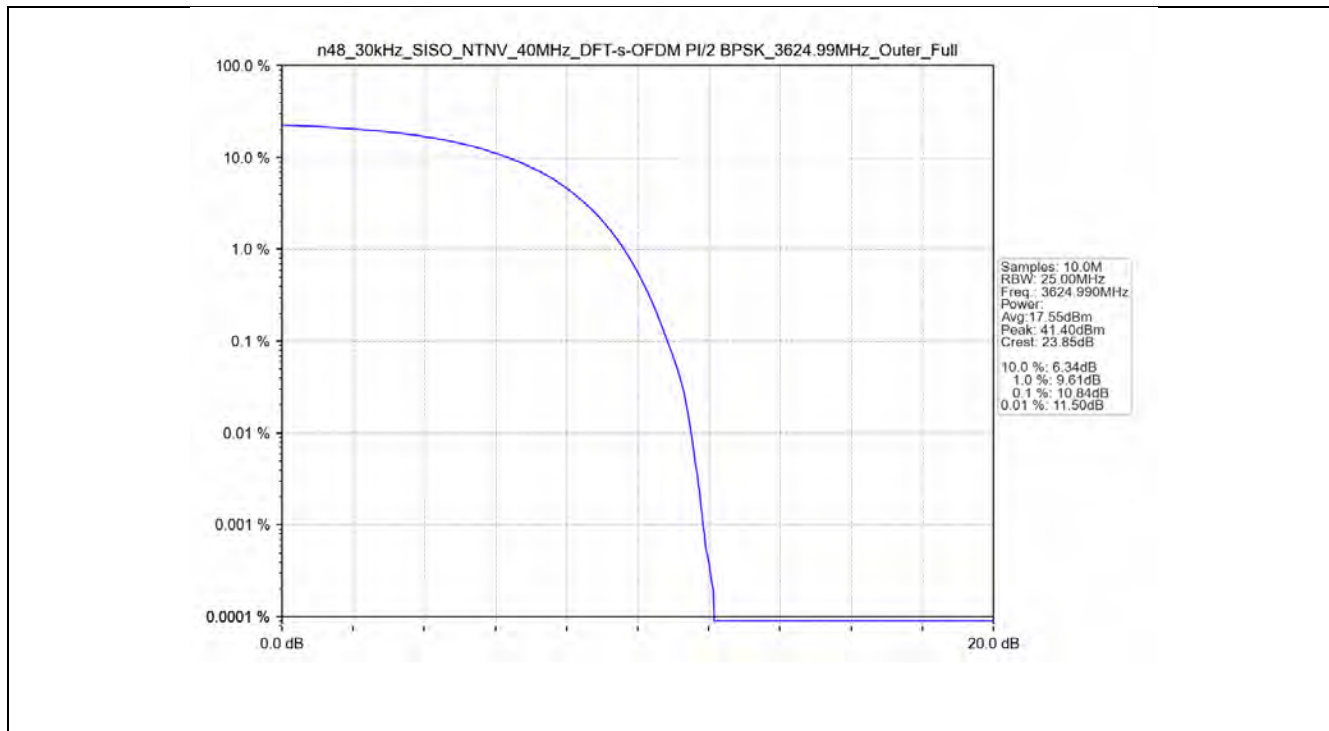
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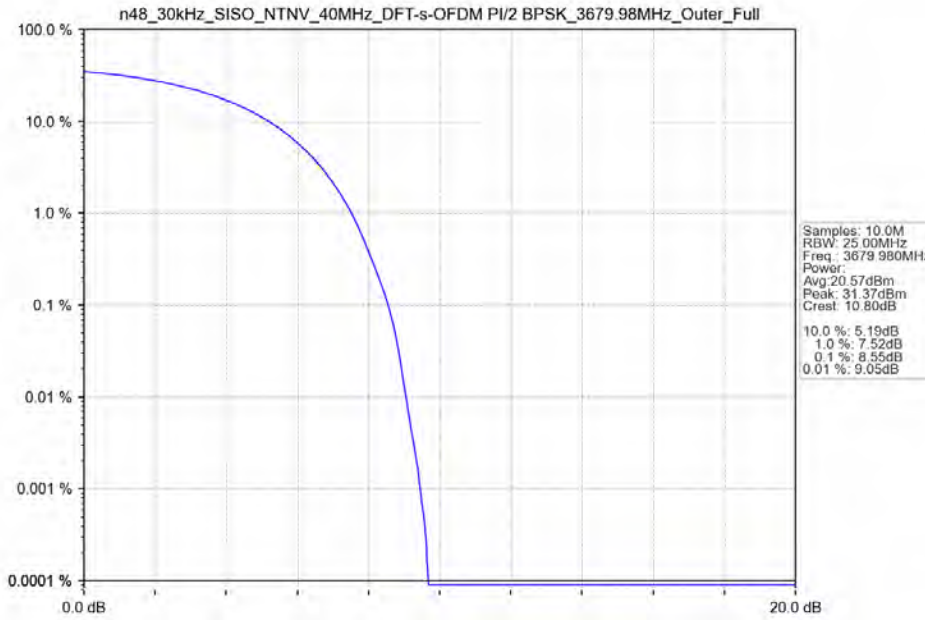
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n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM PI/2 BPSK_3679.98MHz_Outer_Full



n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM QPSK_3570MHz_Outer_Full



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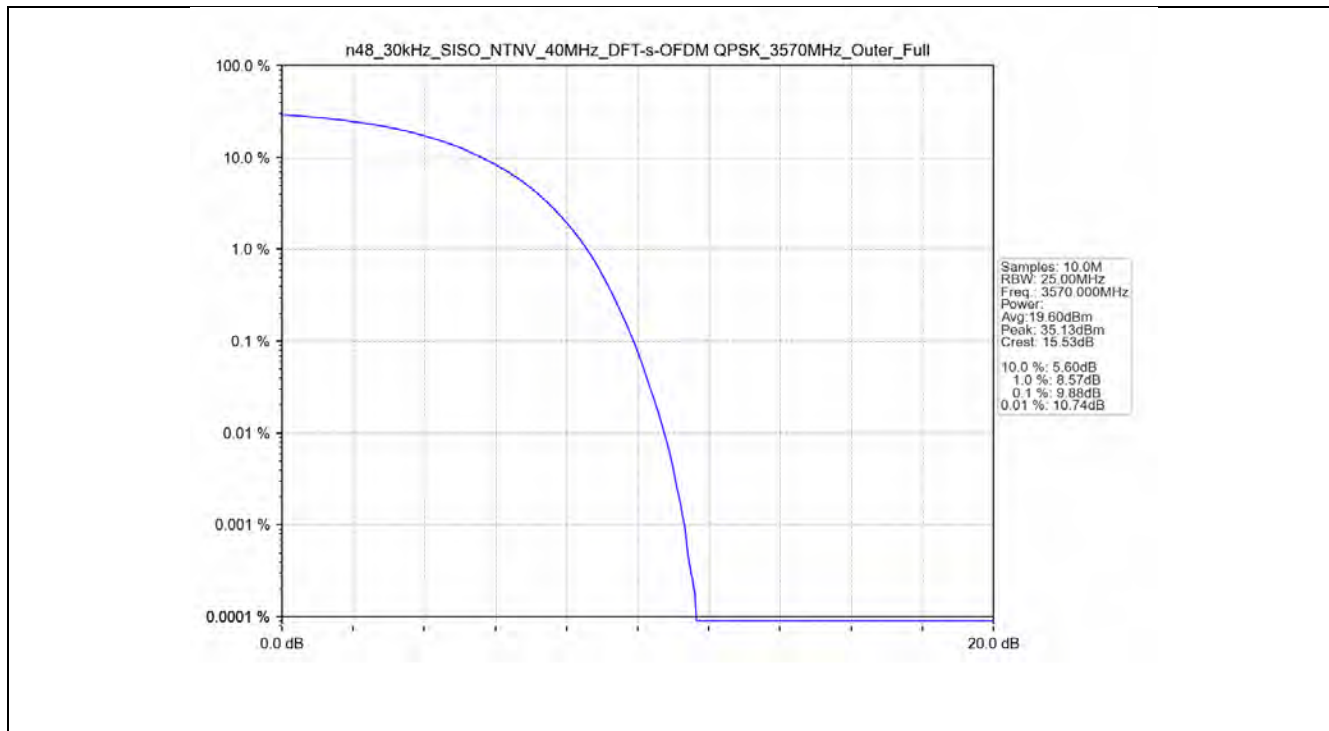
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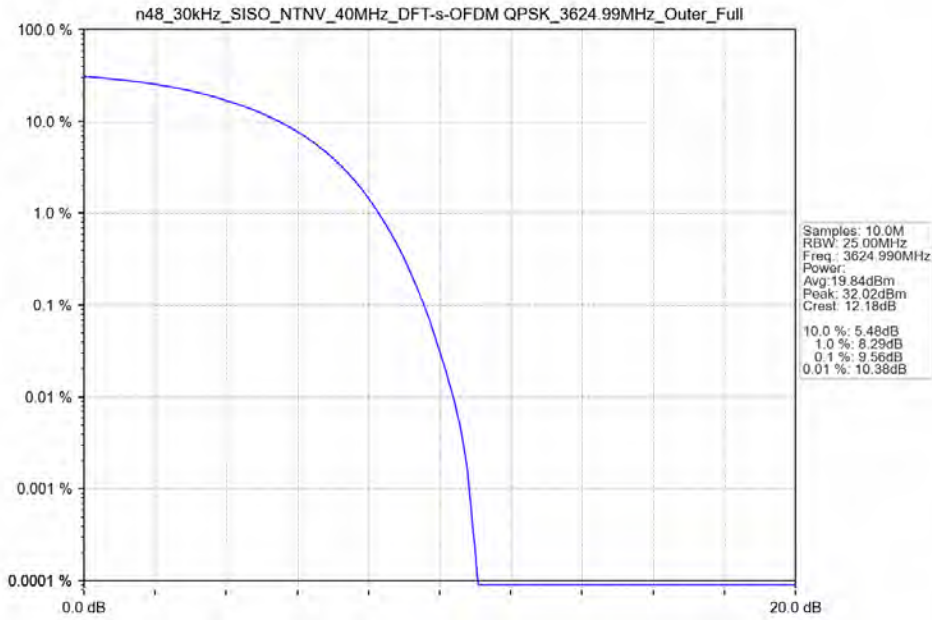
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n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM QPSK_3624.99MHz_Outer_Full



n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM QPSK_3679.98MHz_Outer_Full



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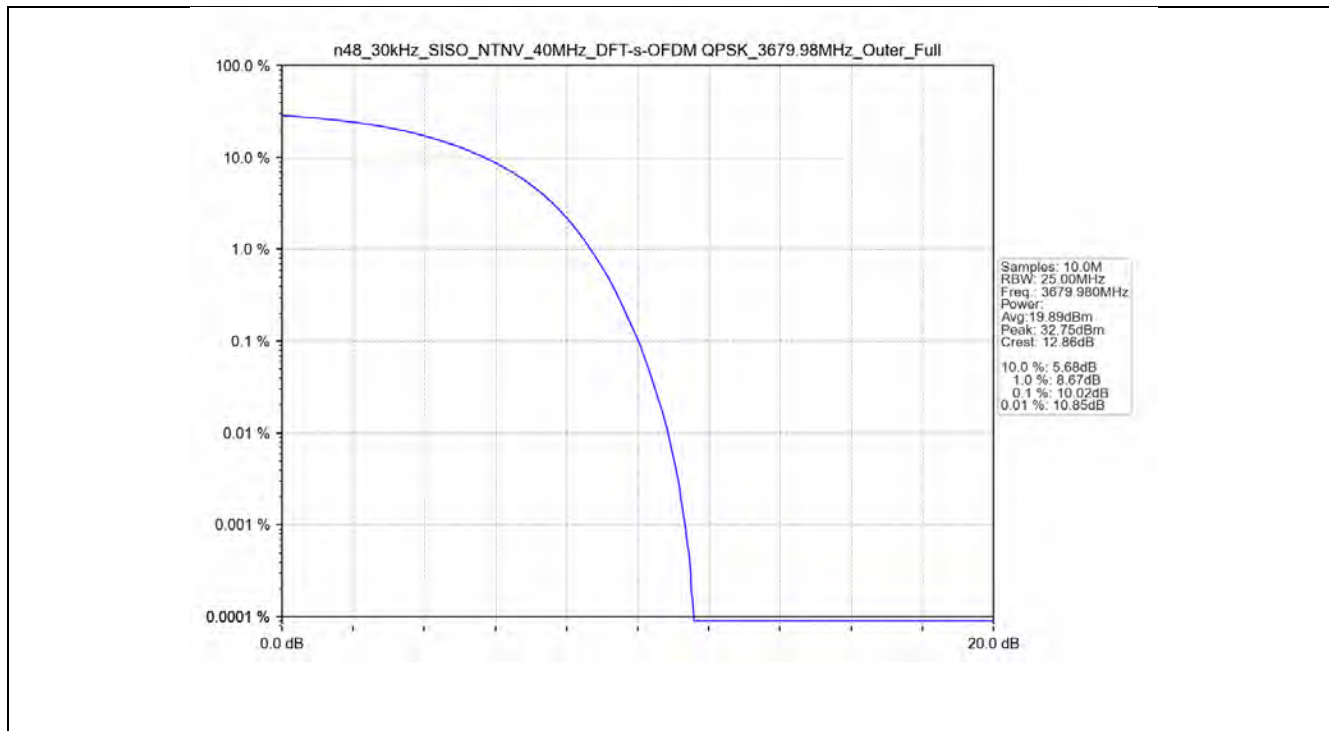
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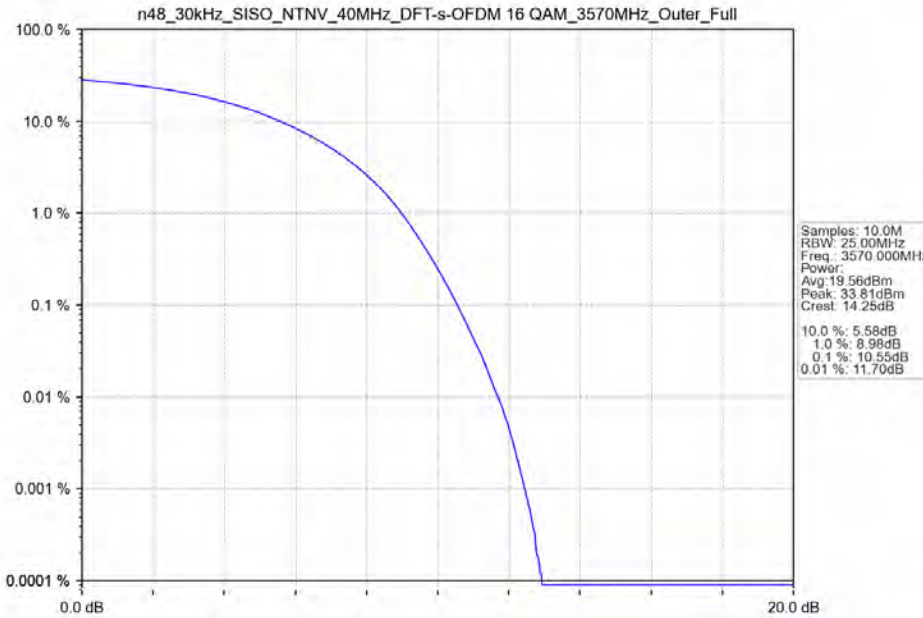
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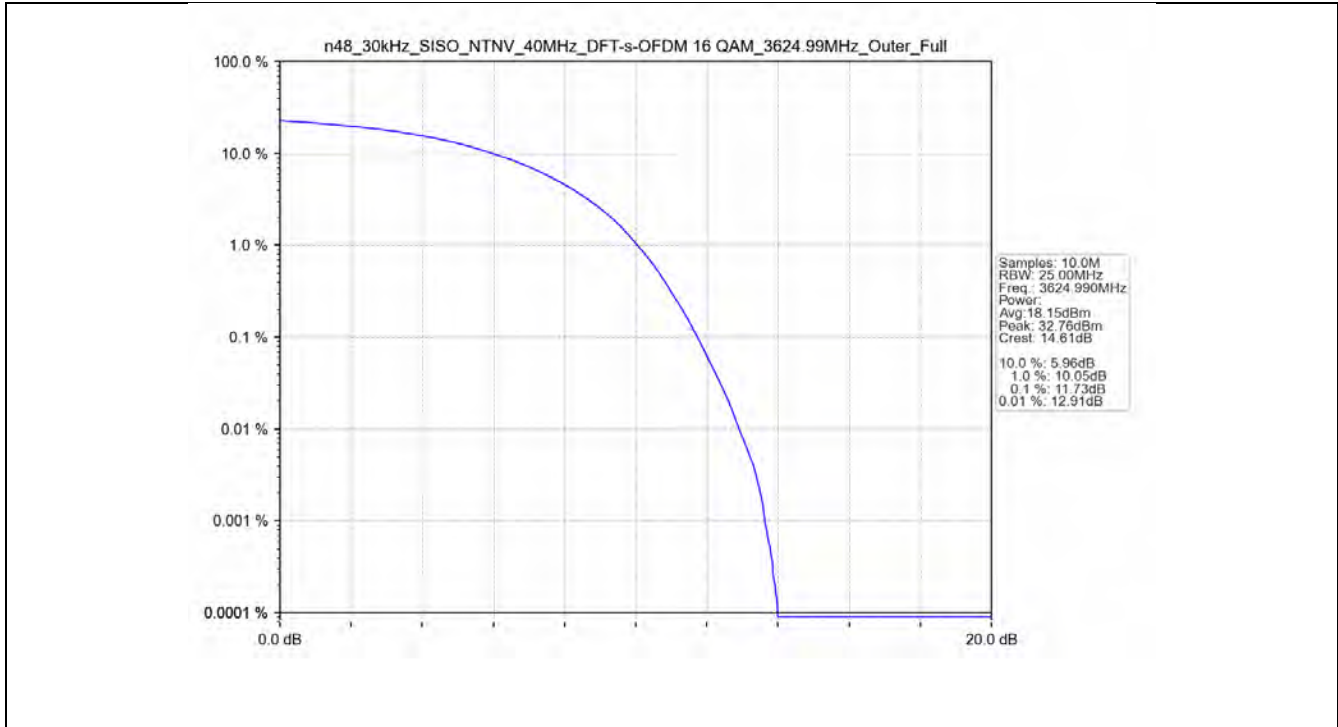


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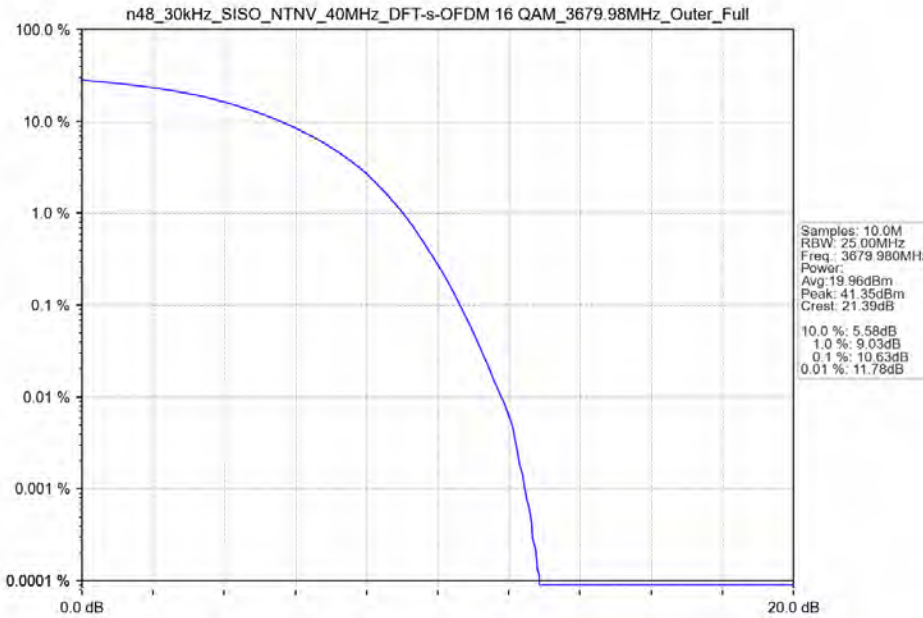
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n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM 16 QAM_3679.98MHz_Outer_Full



n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM 64 QAM_3570MHz_Outer_Full



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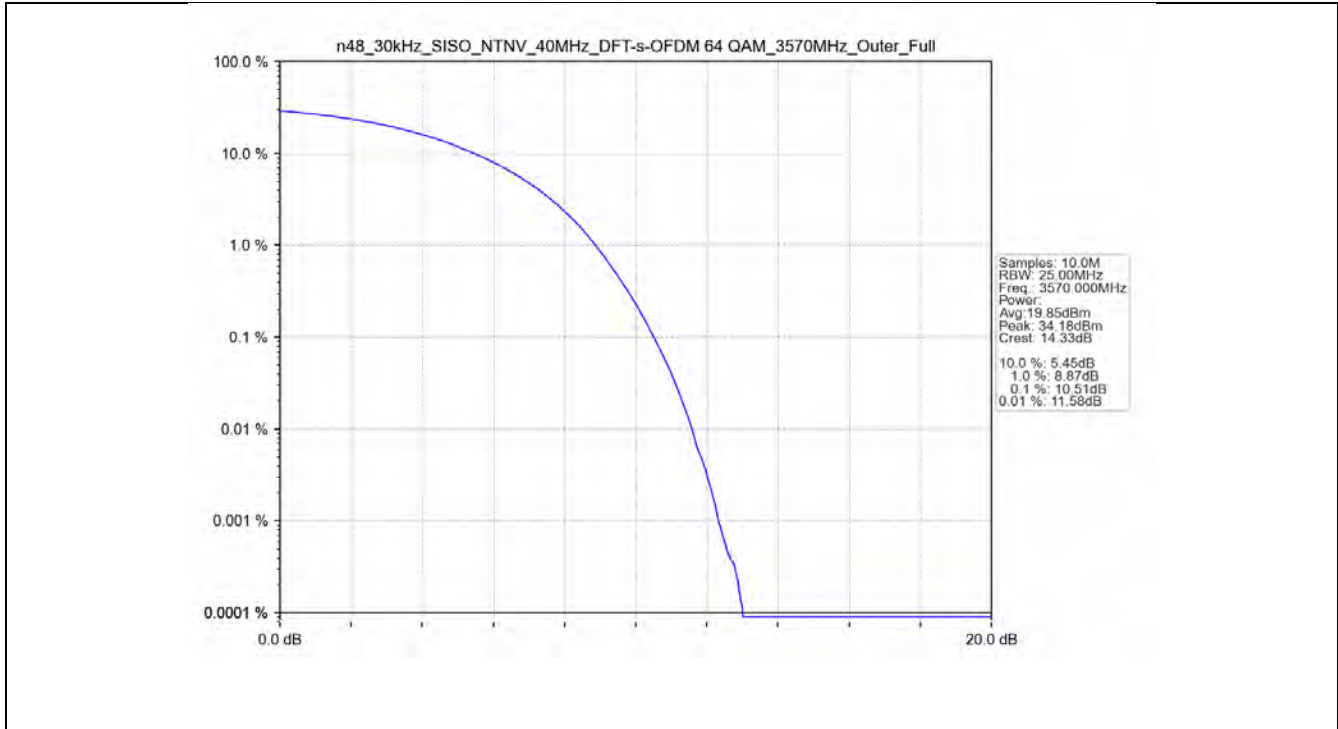


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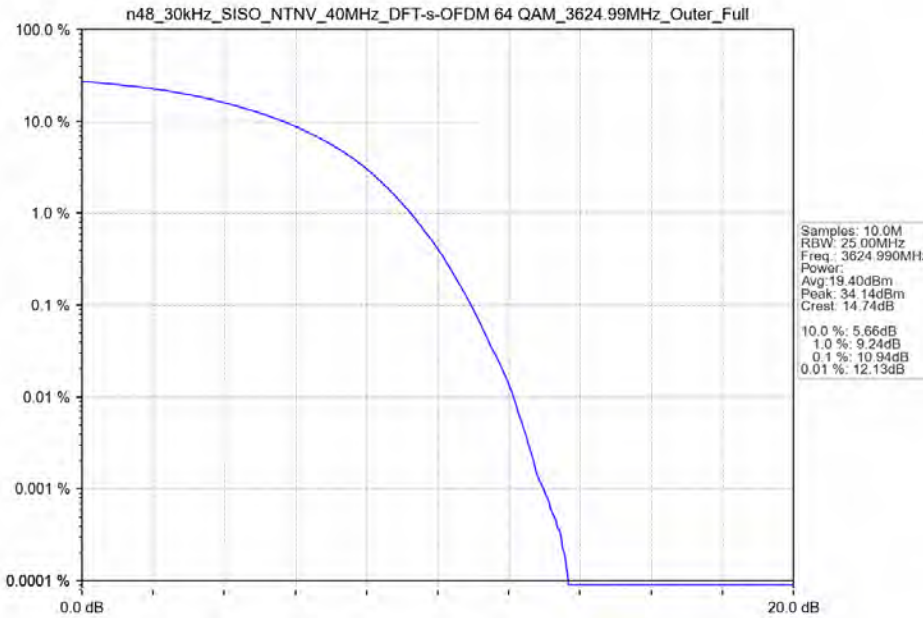
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n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM 64 QAM_3624.99MHz_Outer_Full



n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM 64 QAM_3679.98MHz_Outer_Full



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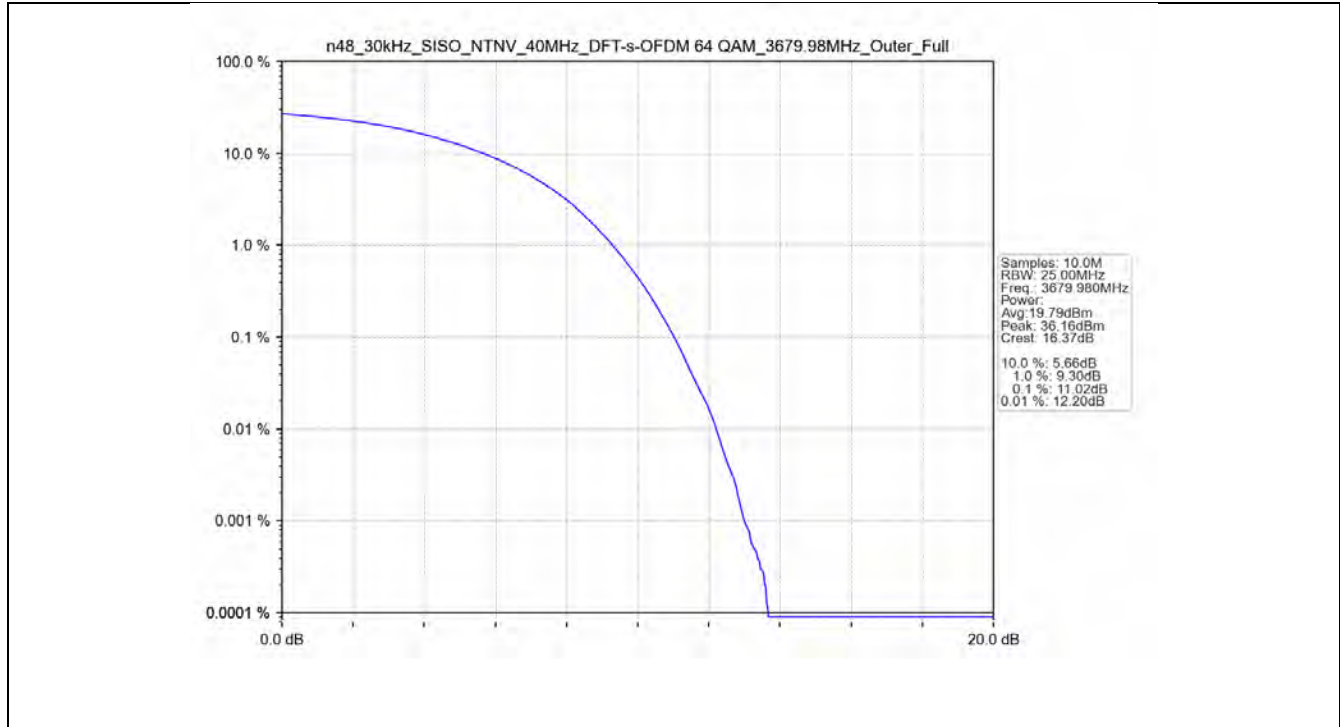


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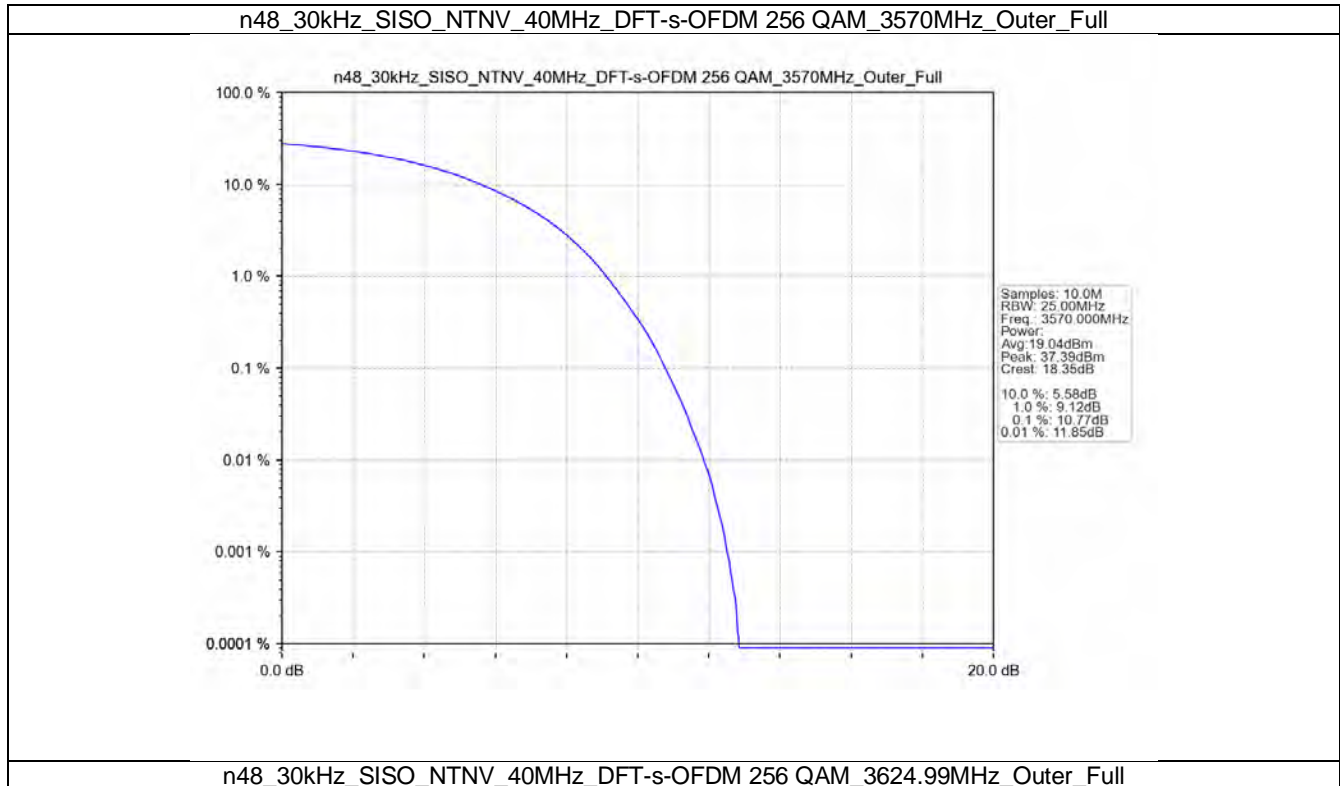


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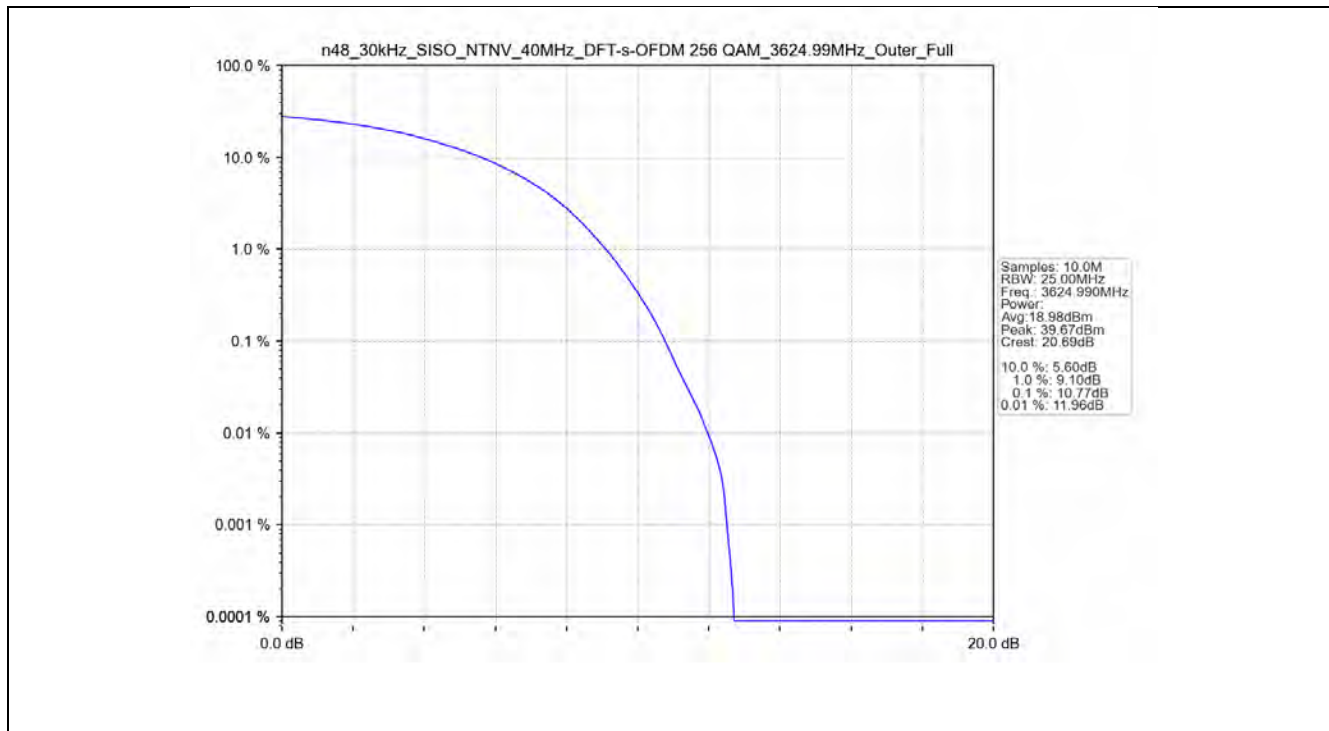
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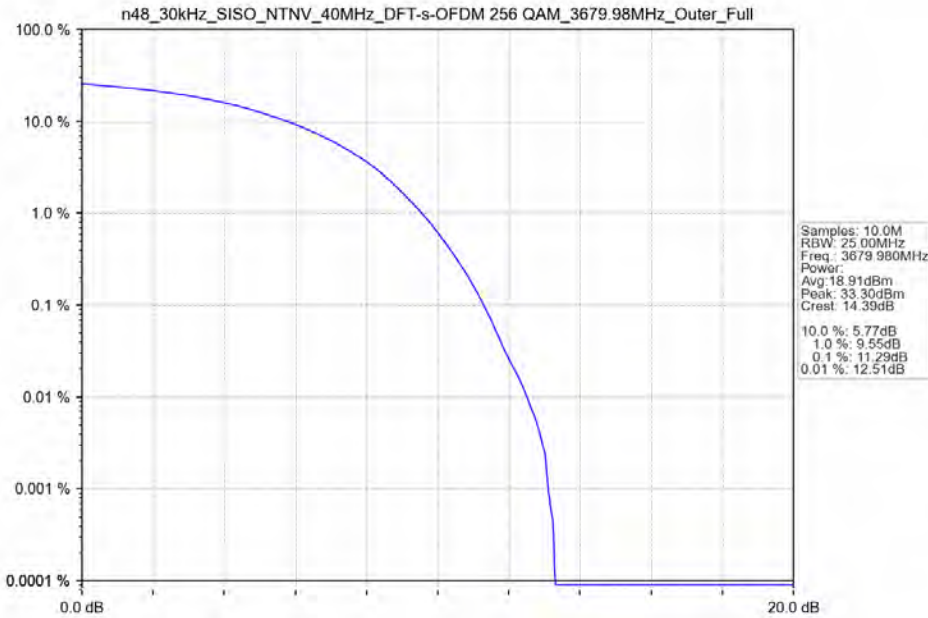
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n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM 256 QAM_3679.98MHz_Outer_Full



n48_30kHz_SISO_NTNV_40MHz_CP-OFDM QPSK_3570MHz_Outer_Full



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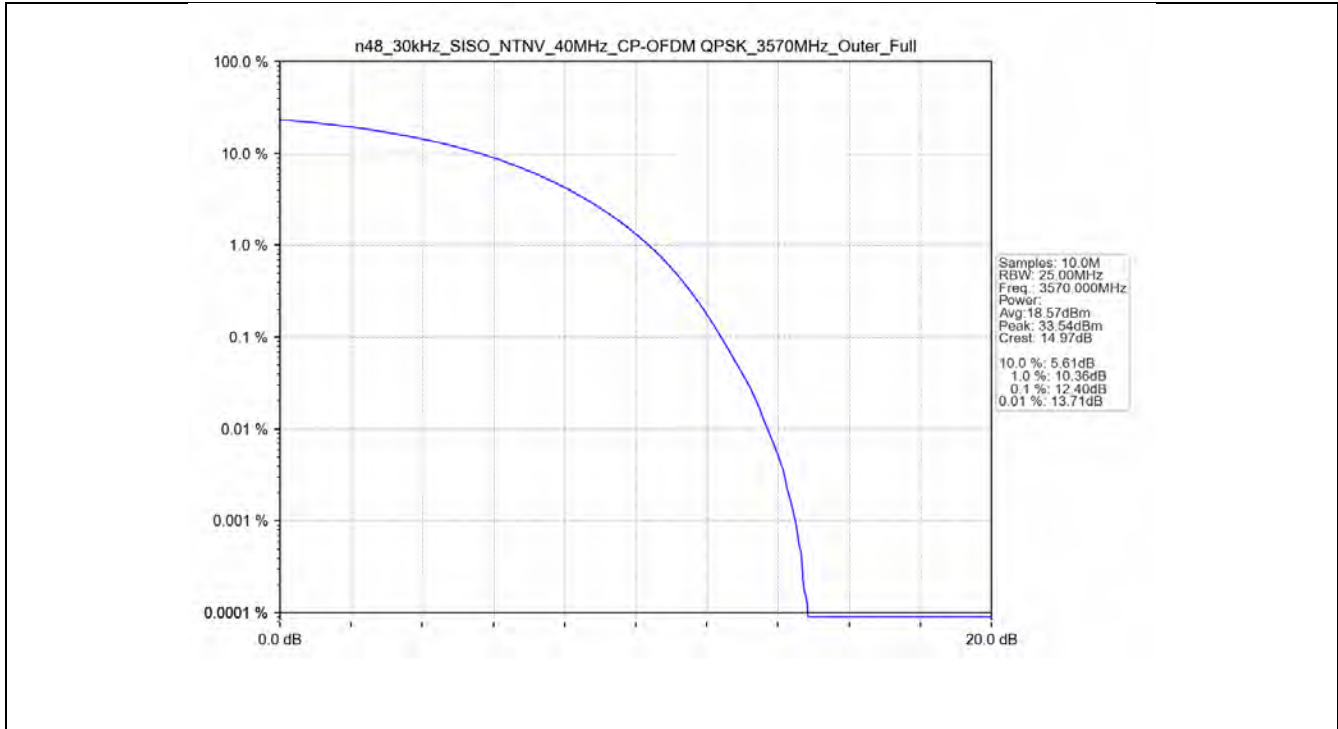
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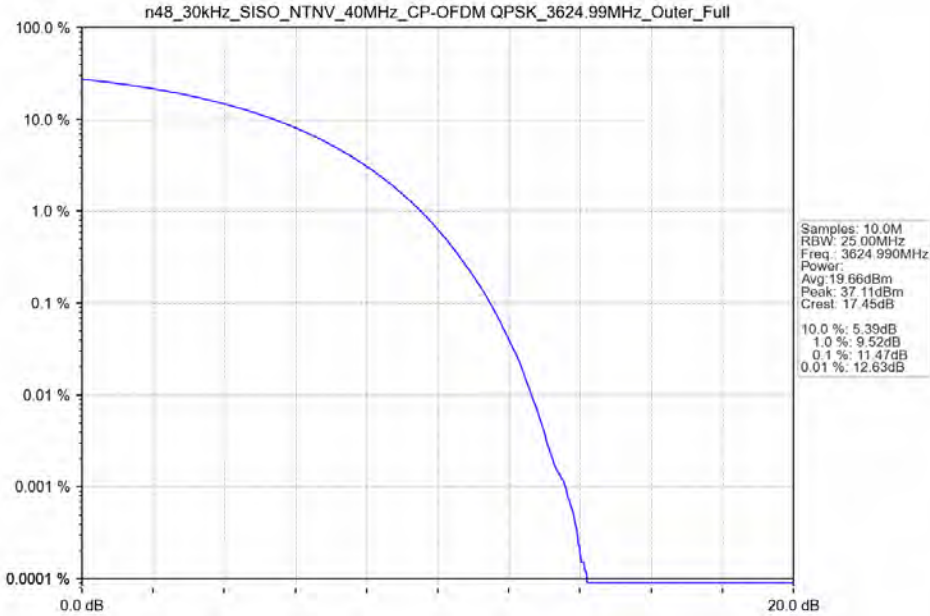
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n48_30kHz_SISO_NTNV_40MHz_CP-OFDM QPSK_3624.99MHz_Outer_Full



n48_30kHz_SISO_NTNV_40MHz_CP-OFDM QPSK_3679.98MHz_Outer_Full



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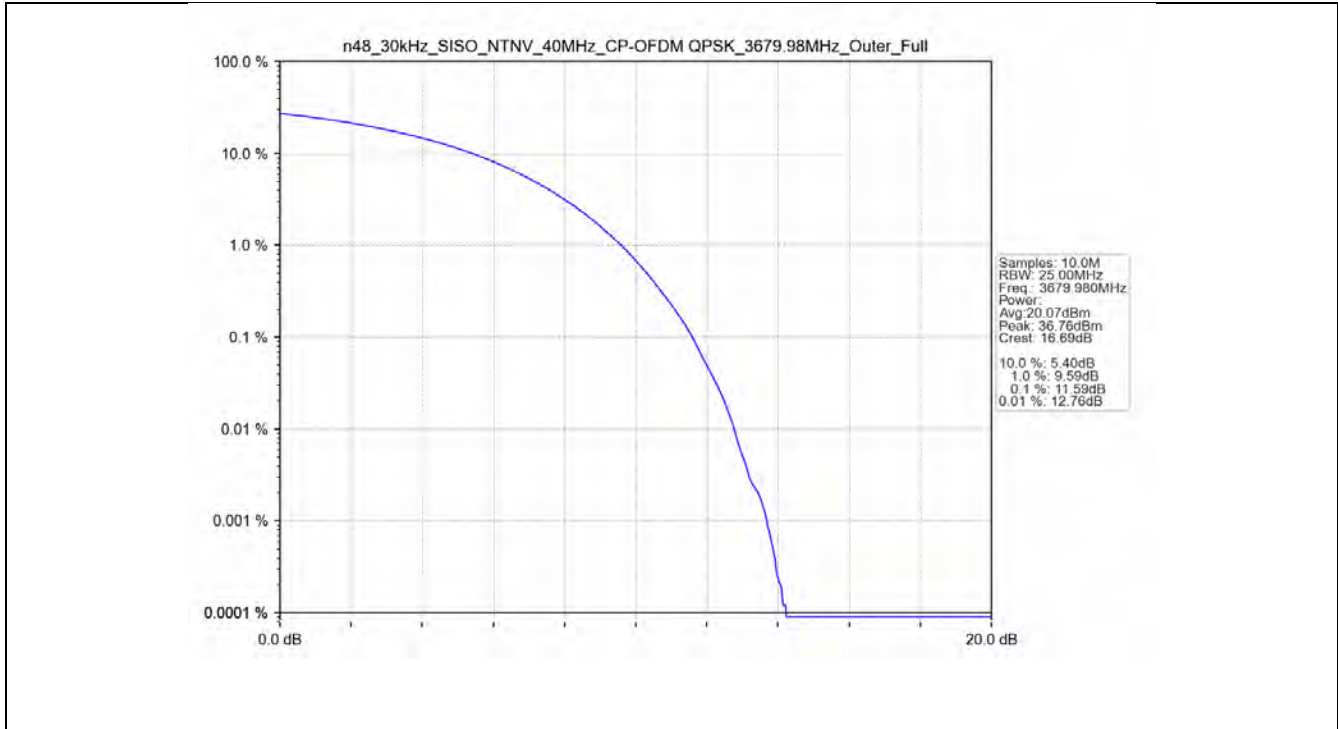


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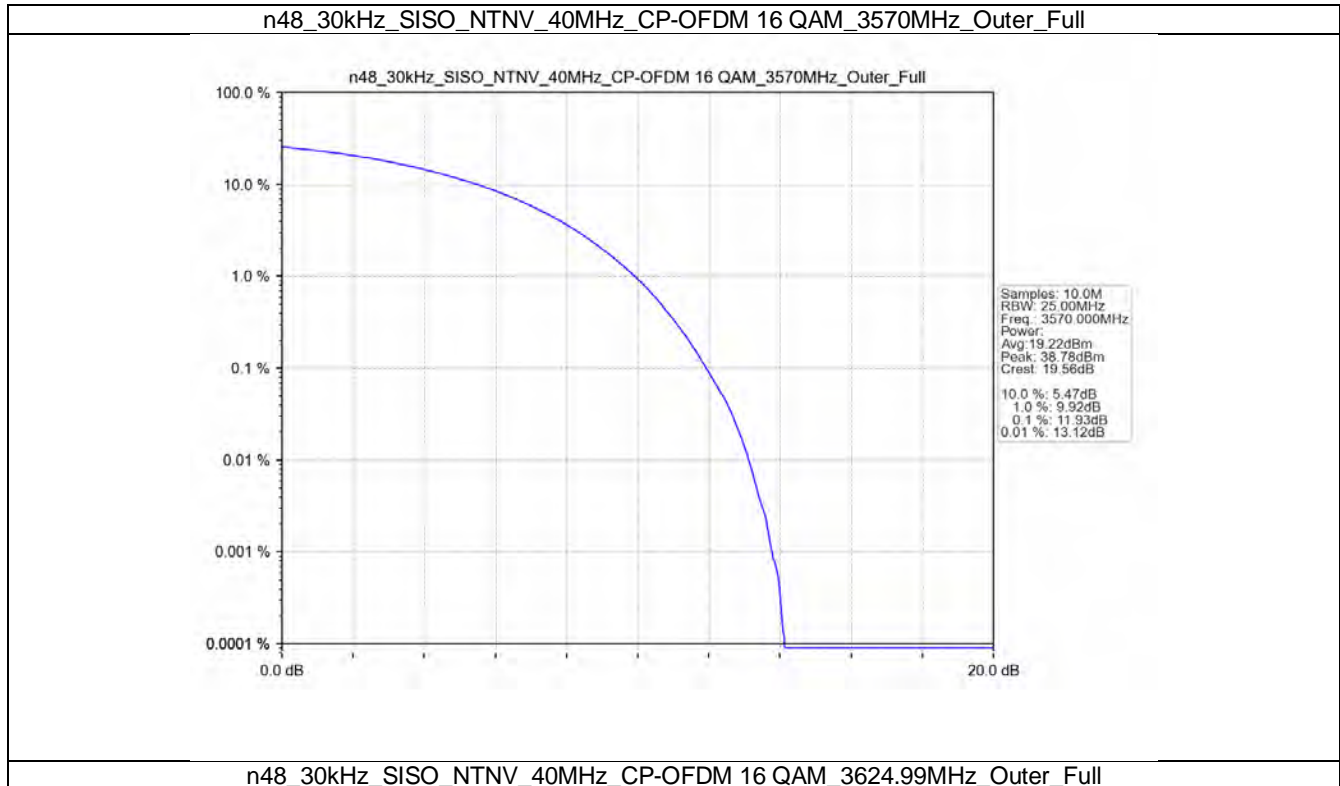


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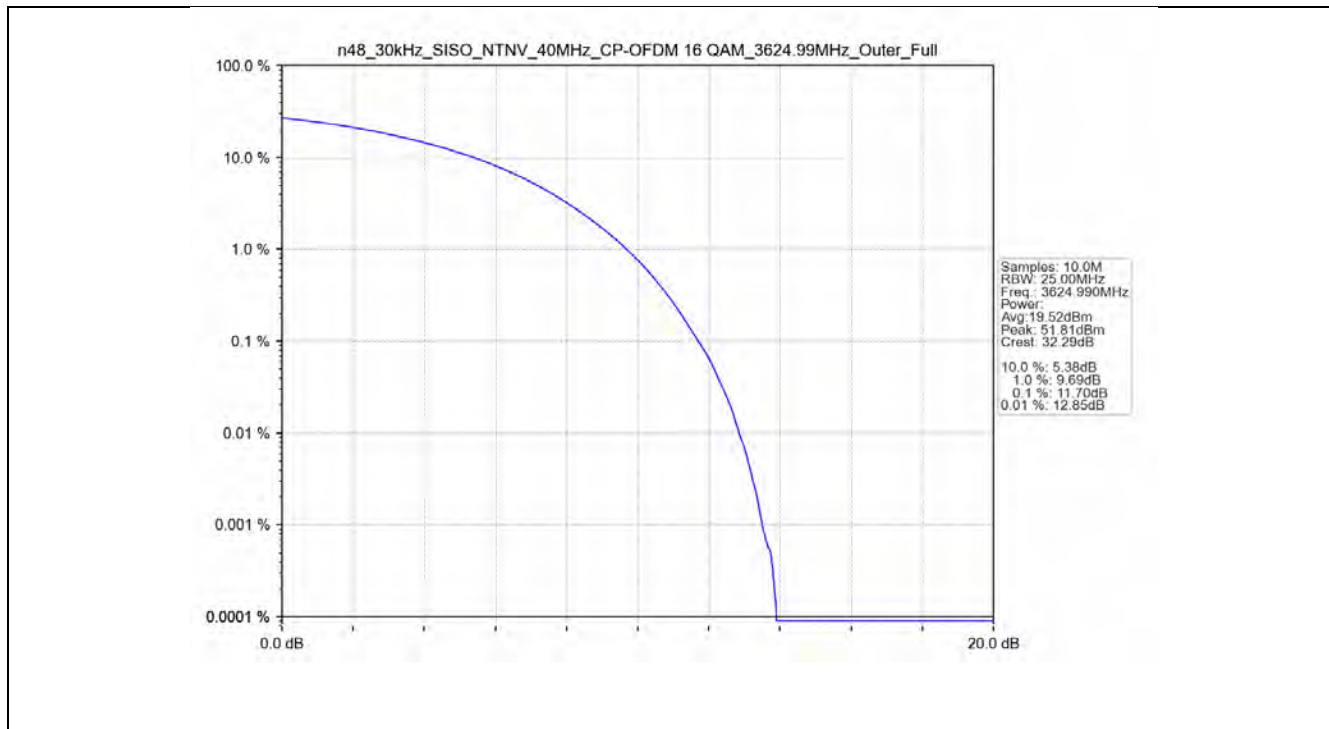
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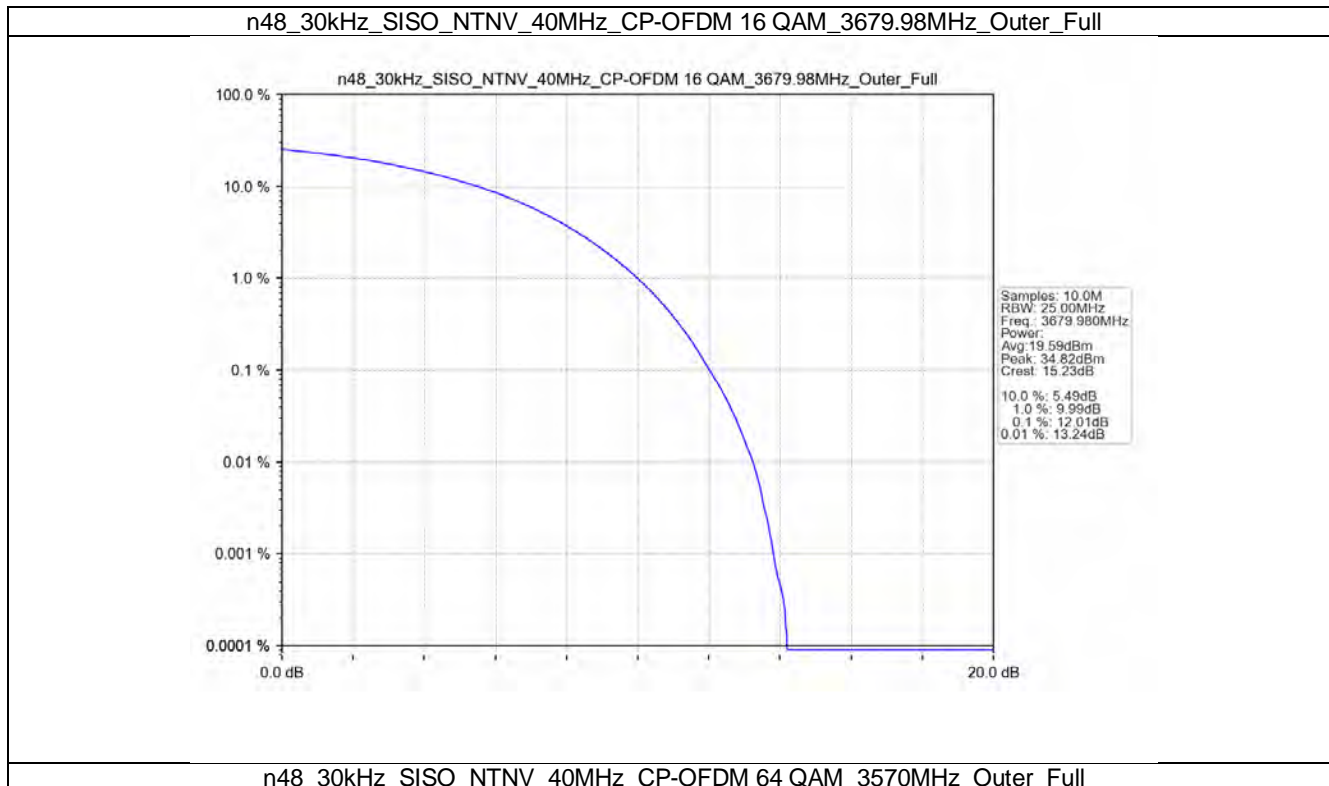
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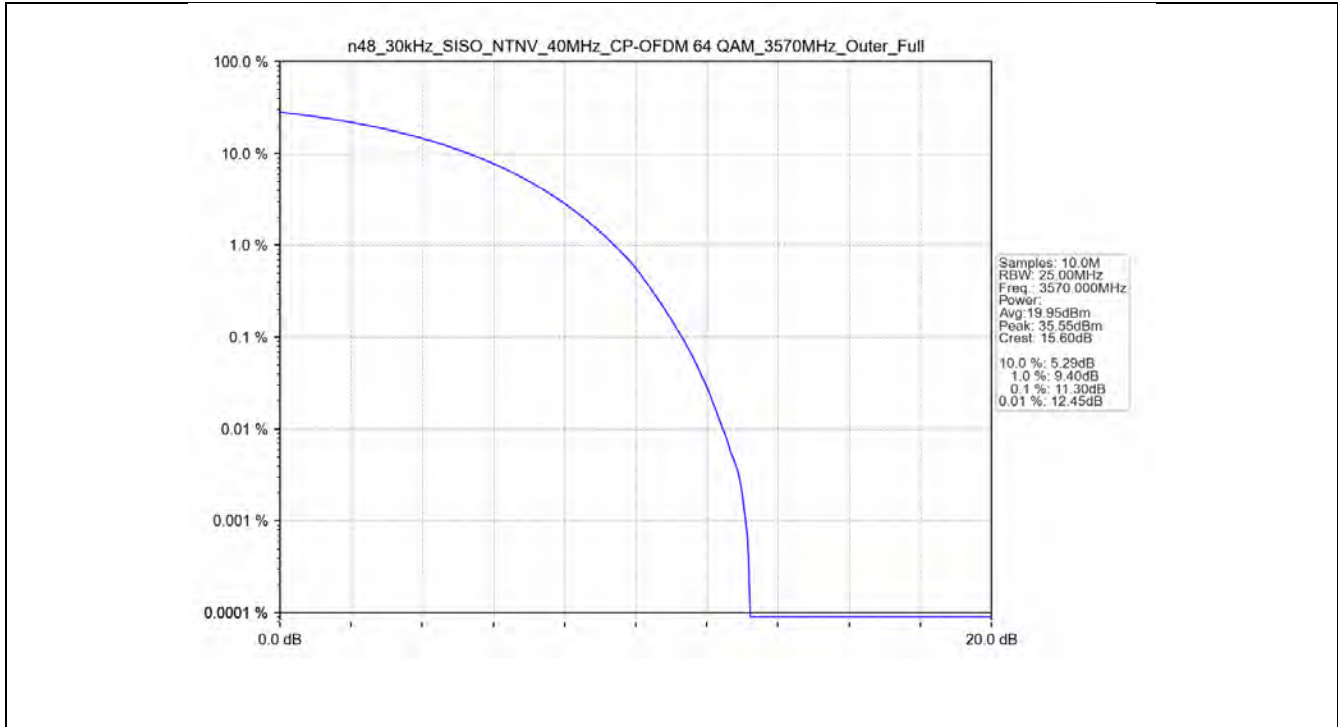


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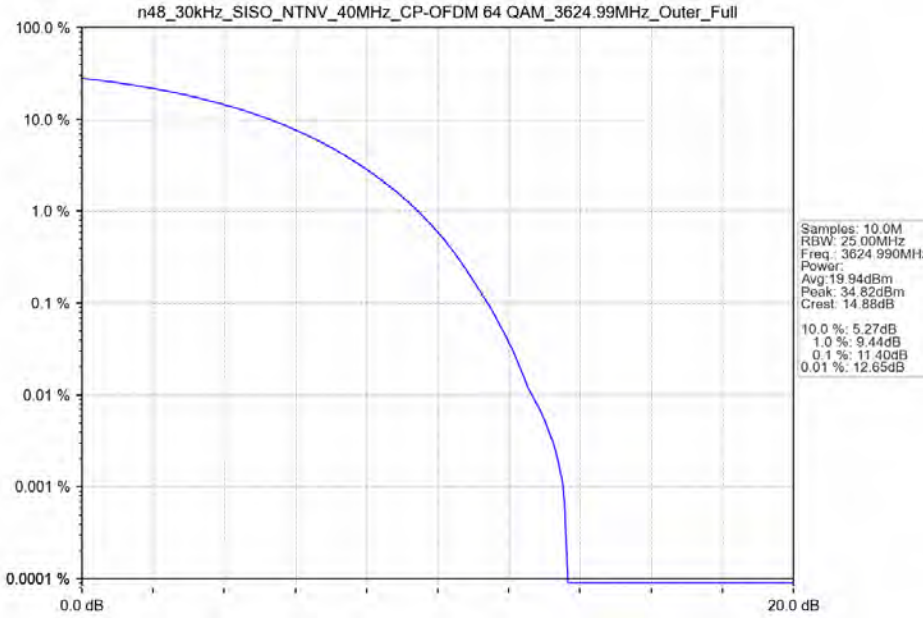
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n48_30kHz_SISO_NTNV_40MHz_CP-OFDM 64 QAM_3679.98MHz_Outer_Full



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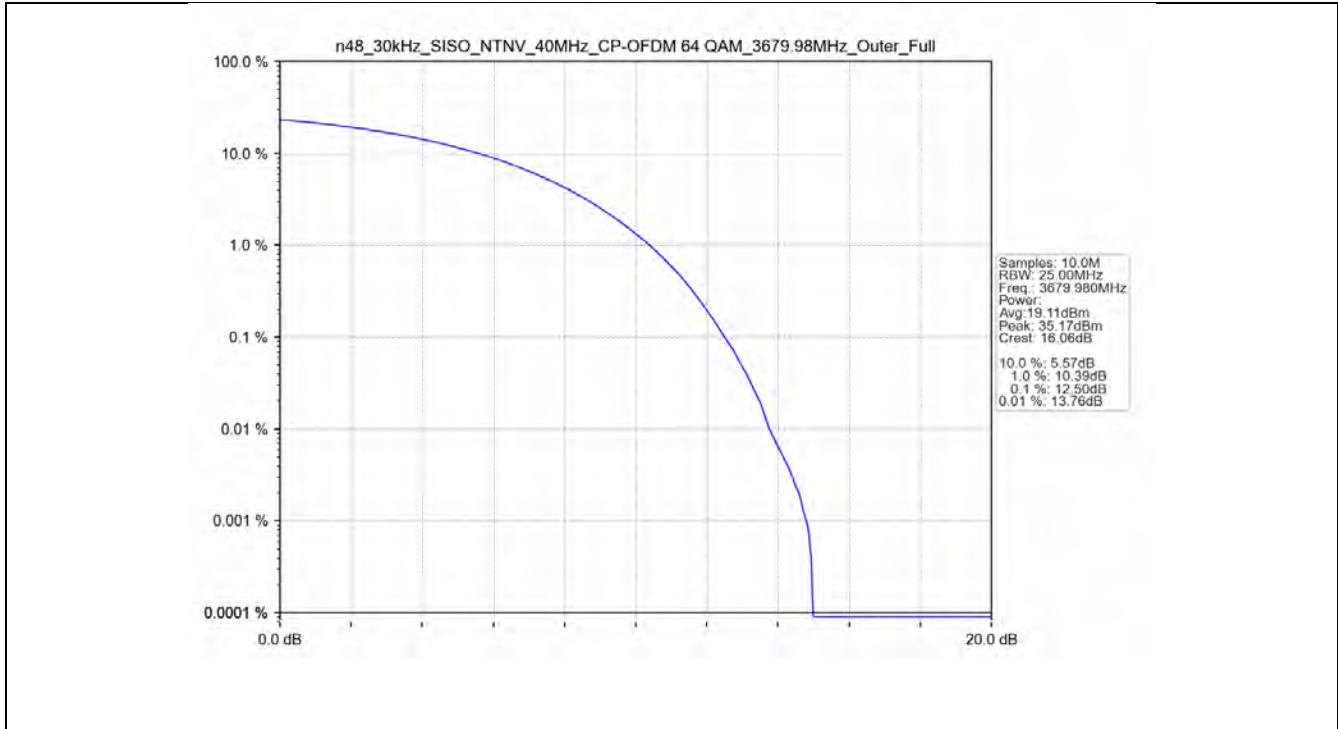
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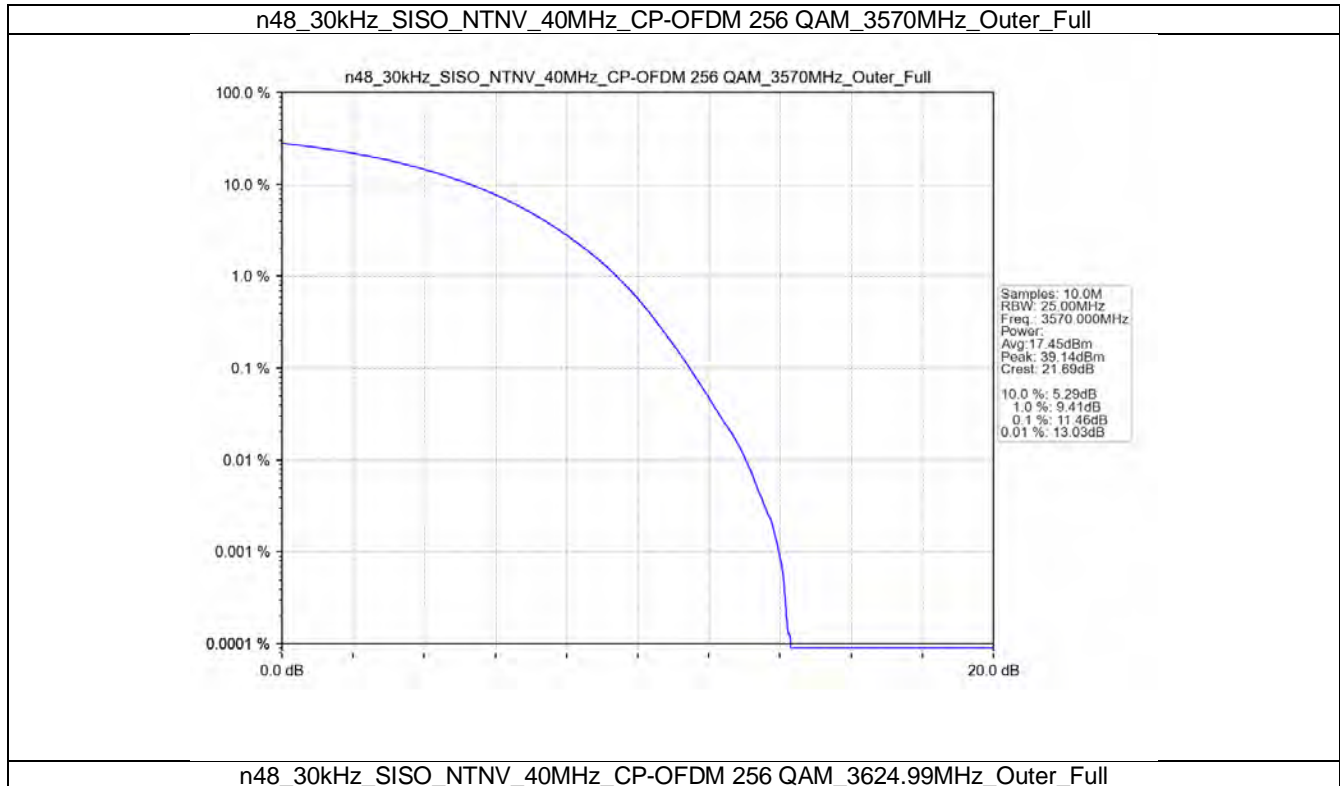


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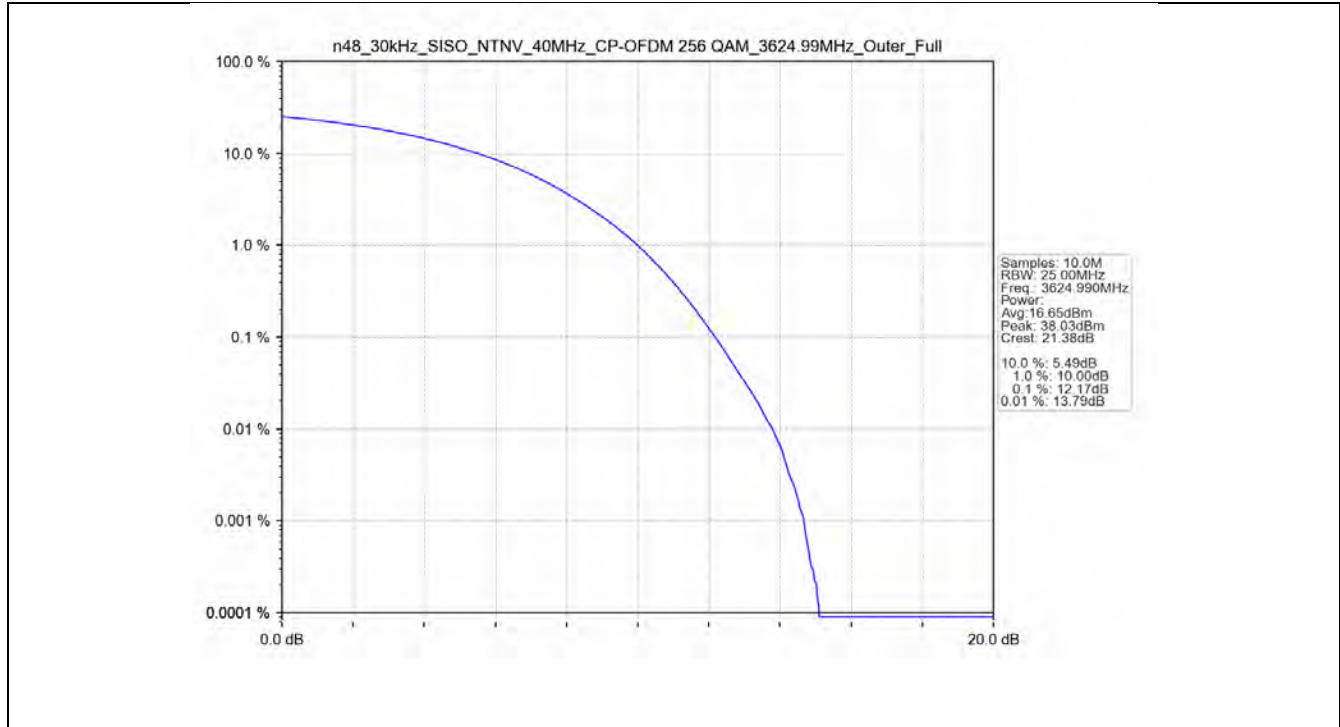


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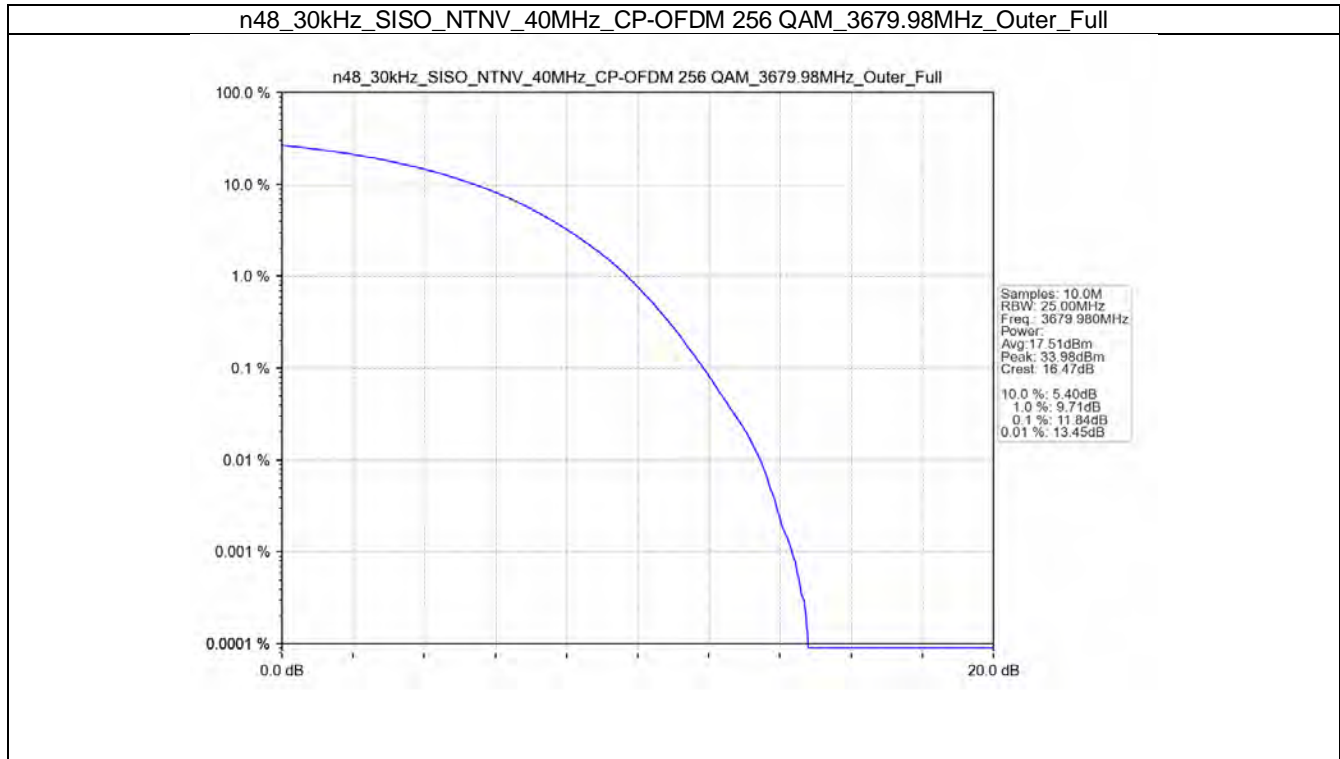


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5. Spurious Emission & Band Edges

5.1 30k_SISO_10MHz_NTNV

5.1.1 Test Result

5G NR n48 SCS=30kHz SISO 10MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission			Verdict
			Ant1	Ant4	Sum	
DFT-s-OFDM PI/2 BPSK	3555	Edge_1RB_Left	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
		Inner_1RB_Left	Refer To Test Graph			Pass
	3624.99	Edge_1RB_Left	Refer To Test Graph			Pass
		Edge_1RB_Right	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
3694.98	Inner_1RB_Right	Refer To Test Graph			Pass	
	3555	Edge_1RB_Left	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
Inner_1RB_Left		Refer To Test Graph			Pass	
3624.99	Edge_1RB_Left	Refer To Test Graph			Pass	
	Edge_1RB_Right	Refer To Test Graph			Pass	
	Outer_Full	Refer To Test Graph			Pass	
3694.98	Inner_1RB_Right	Refer To Test Graph			Pass	
	3555	Edge_1RB_Left	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
Inner_1RB_Left		Refer To Test Graph			Pass	
3624.99	Edge_1RB_Left	Refer To Test Graph			Pass	
	Edge_1RB_Right	Refer To Test Graph			Pass	
	Outer_Full	Refer To Test Graph			Pass	
3694.98	Inner_1RB_Right	Refer To Test Graph			Pass	



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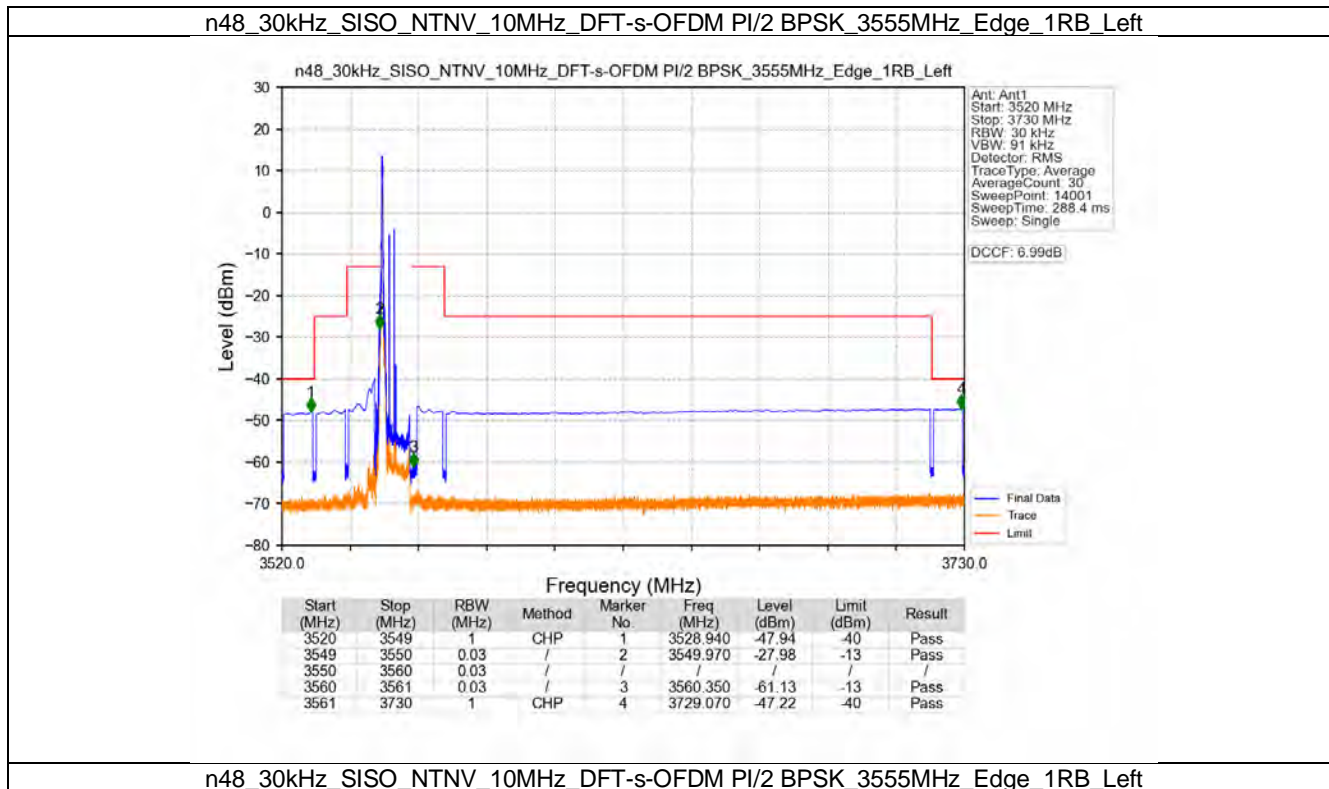
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5.1.2 Test Graph



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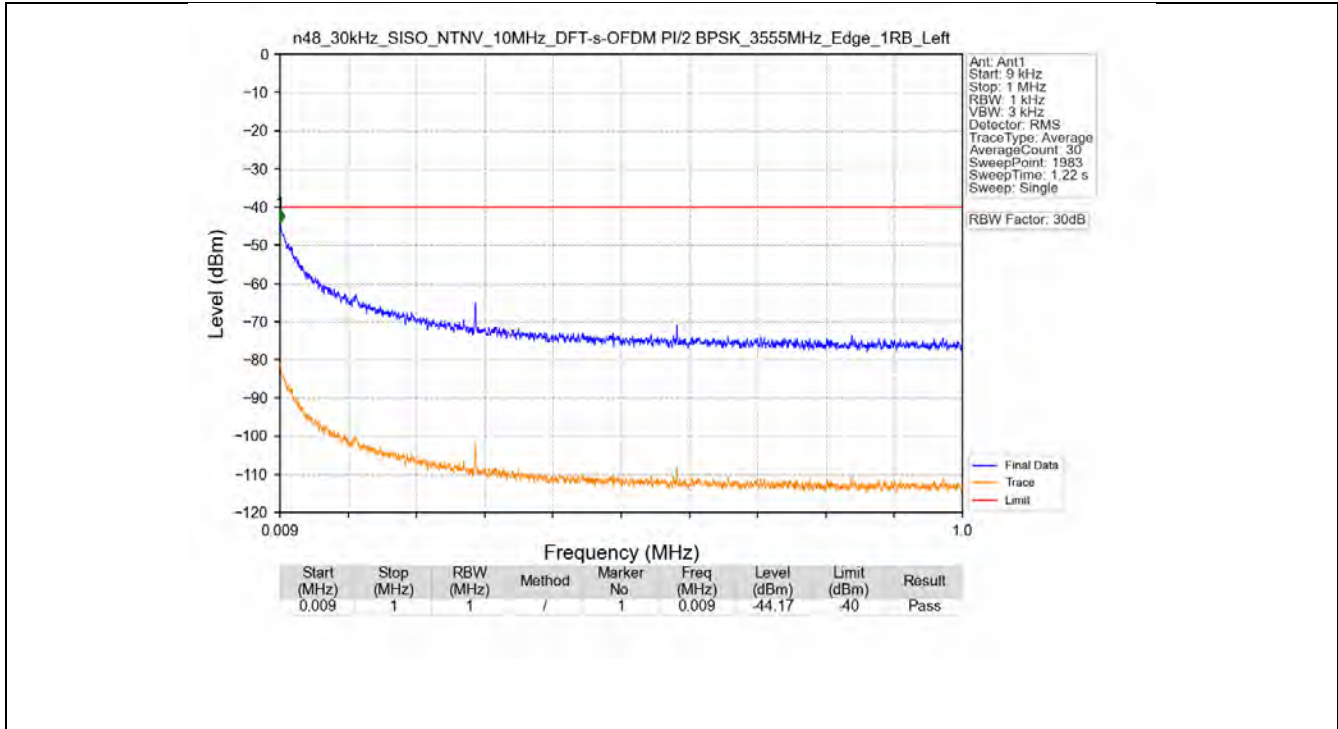


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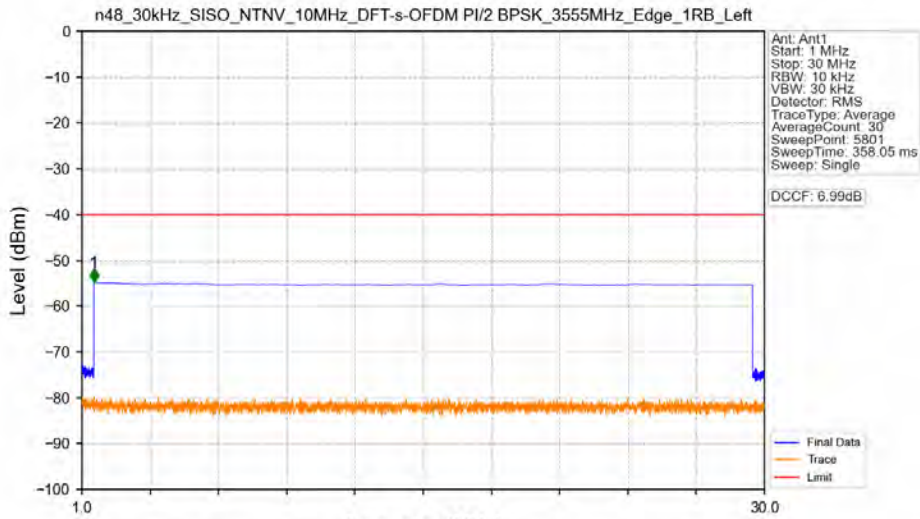
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n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_3555MHz_Edge_1RB_Left



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1	30	1	CHP	1	1.505	-54.80	-40	Pass

n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_3555MHz_Edge_1RB_Left



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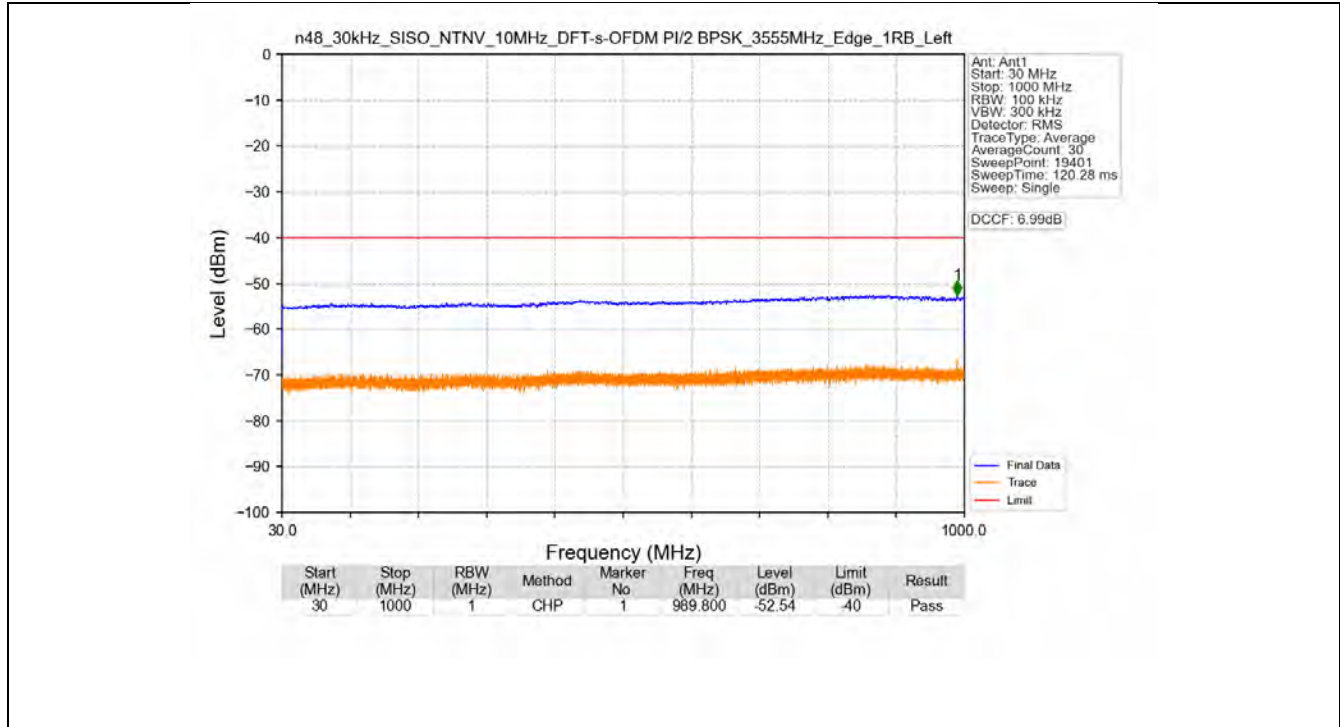


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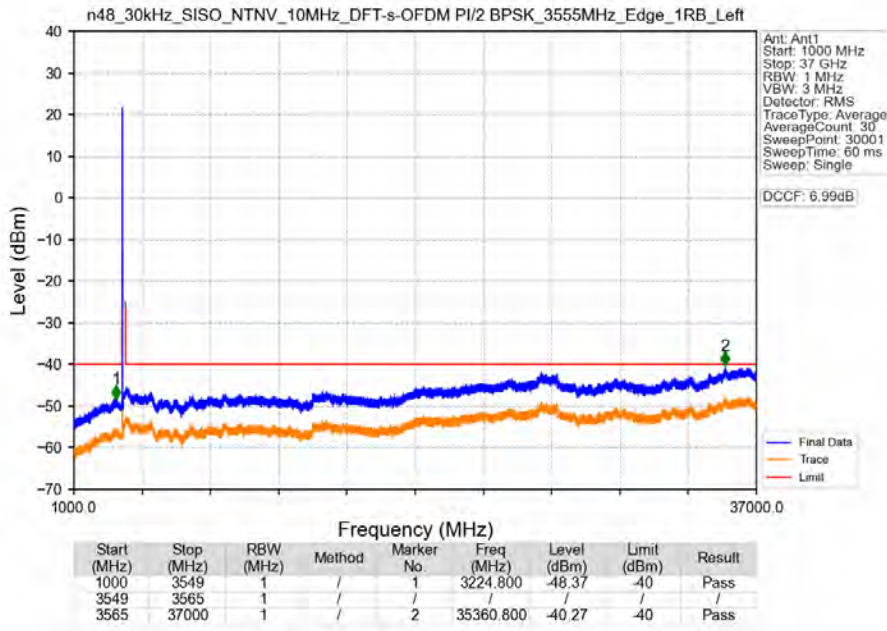
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n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_3555MHz_Edge_1RB_Left



n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_3555MHz_Outer_Full



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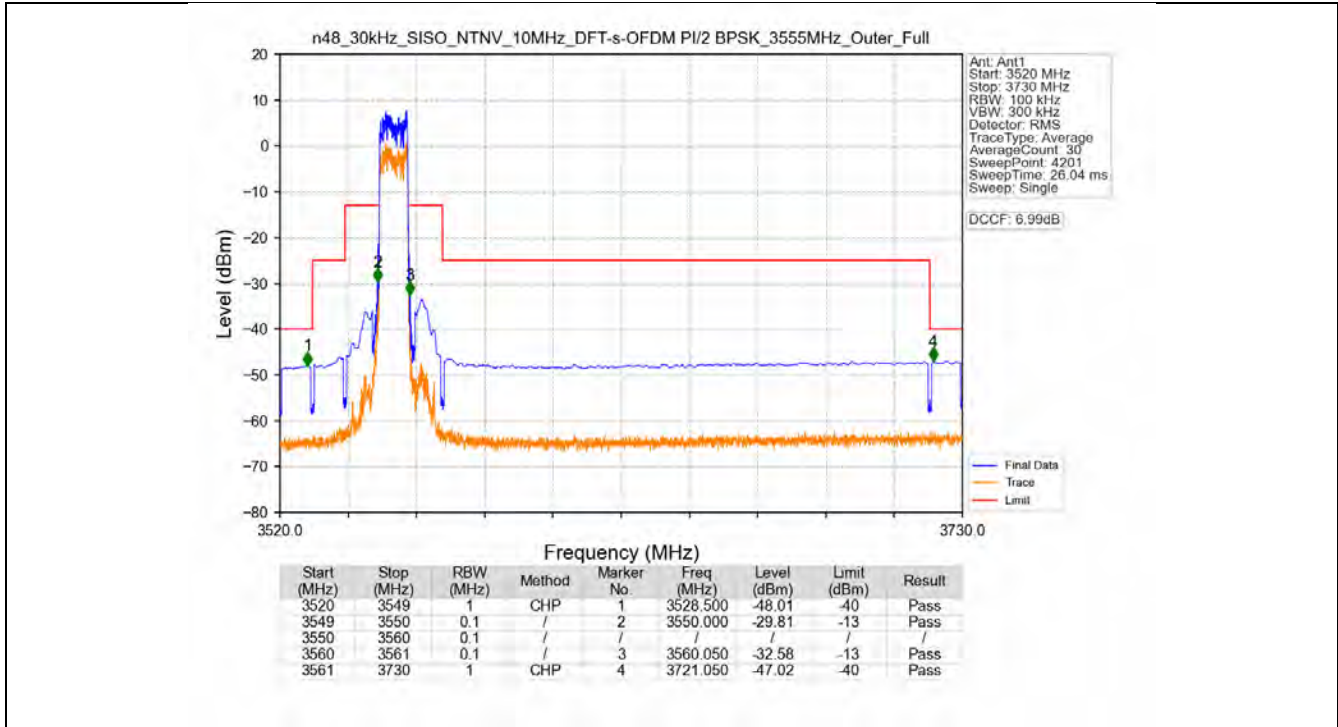


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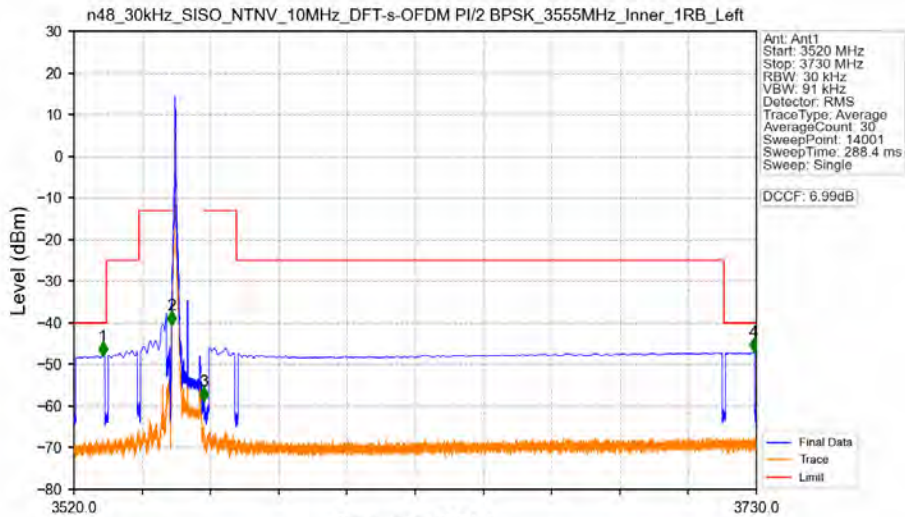
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n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_3555MHz_Inner_1RB_Left



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3520	3549	1	CHP	1	3528.895	-47.95	-40	Pass
3549	3550	0.03	/	2	3550.000	-40.60	-13	Pass
3550	3560	0.03	/	/	/	/	/	/
3560	3561	0.03	/	3	3560.020	-58.82	-13	Pass
3561	3730	1	CHP	4	3729.190	-47.10	-40	Pass

n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_3624.99MHz_Edge_1RB_Left



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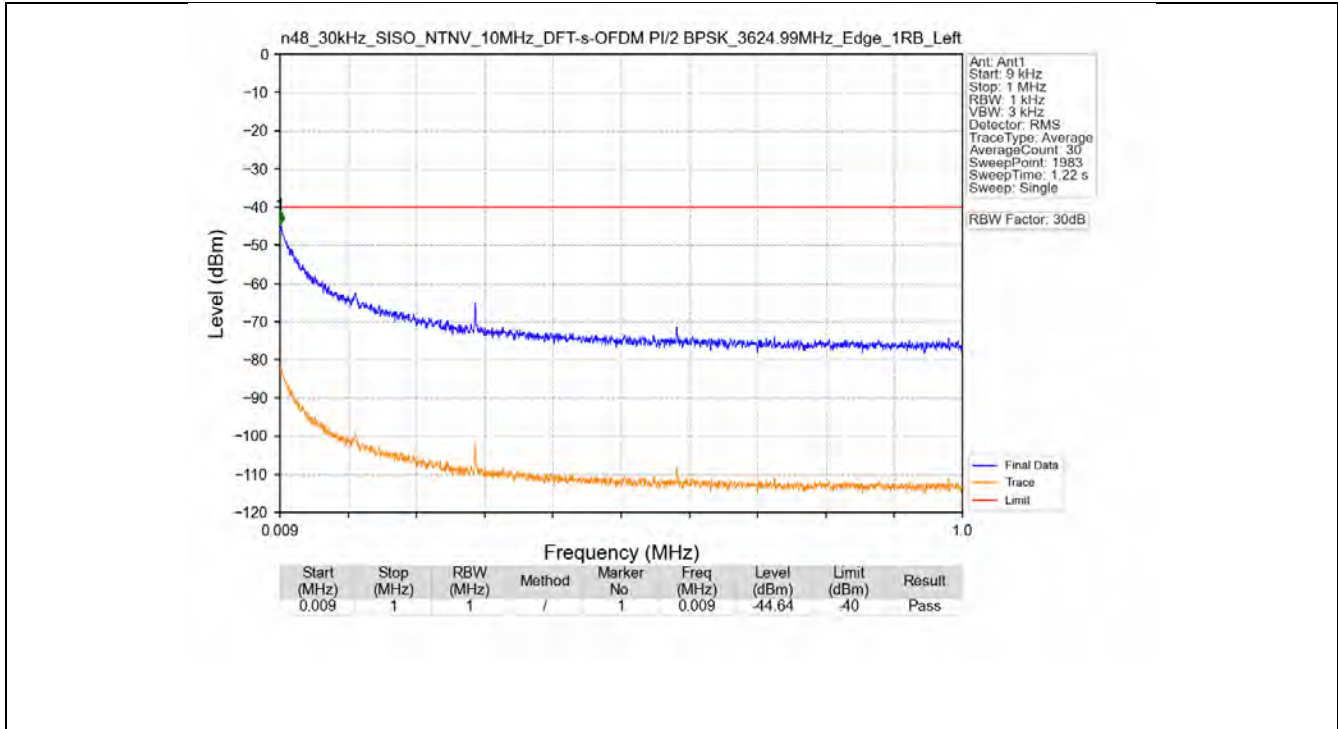


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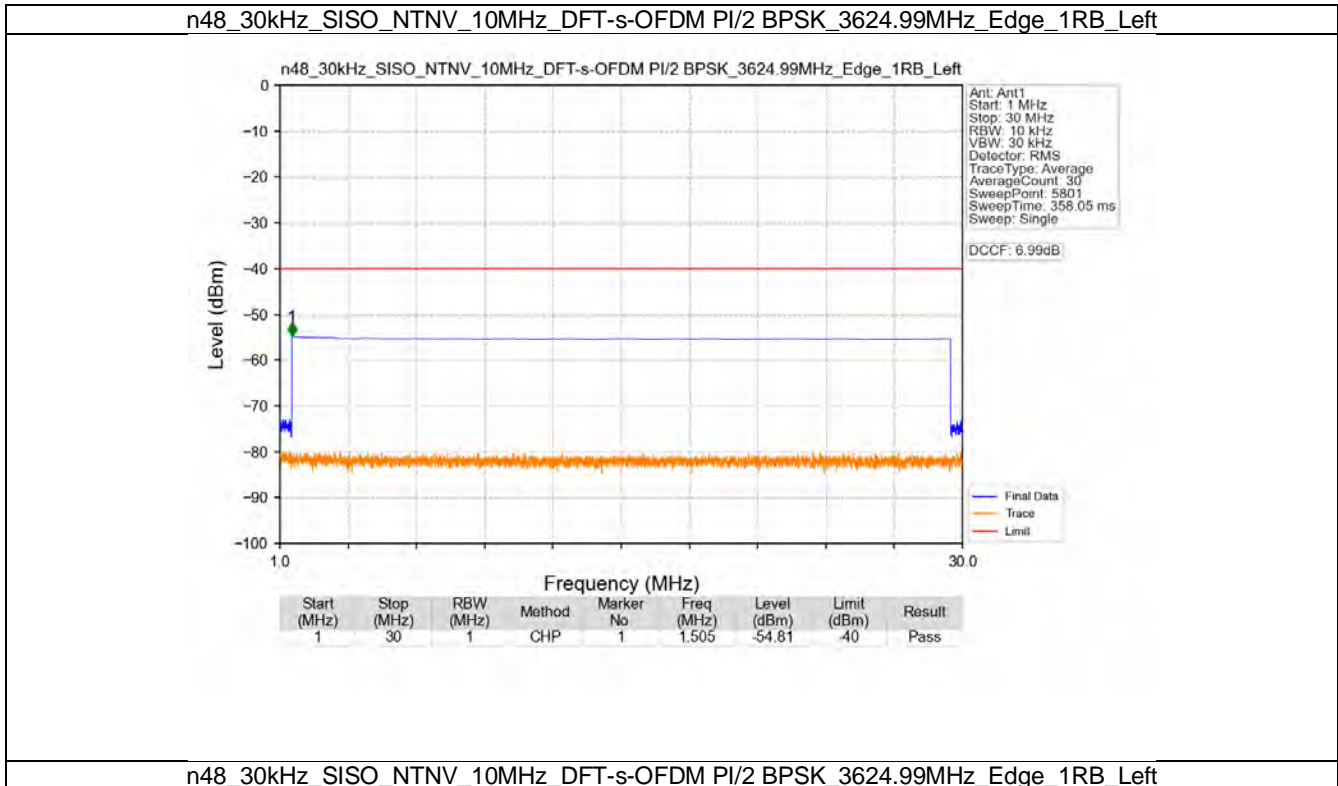


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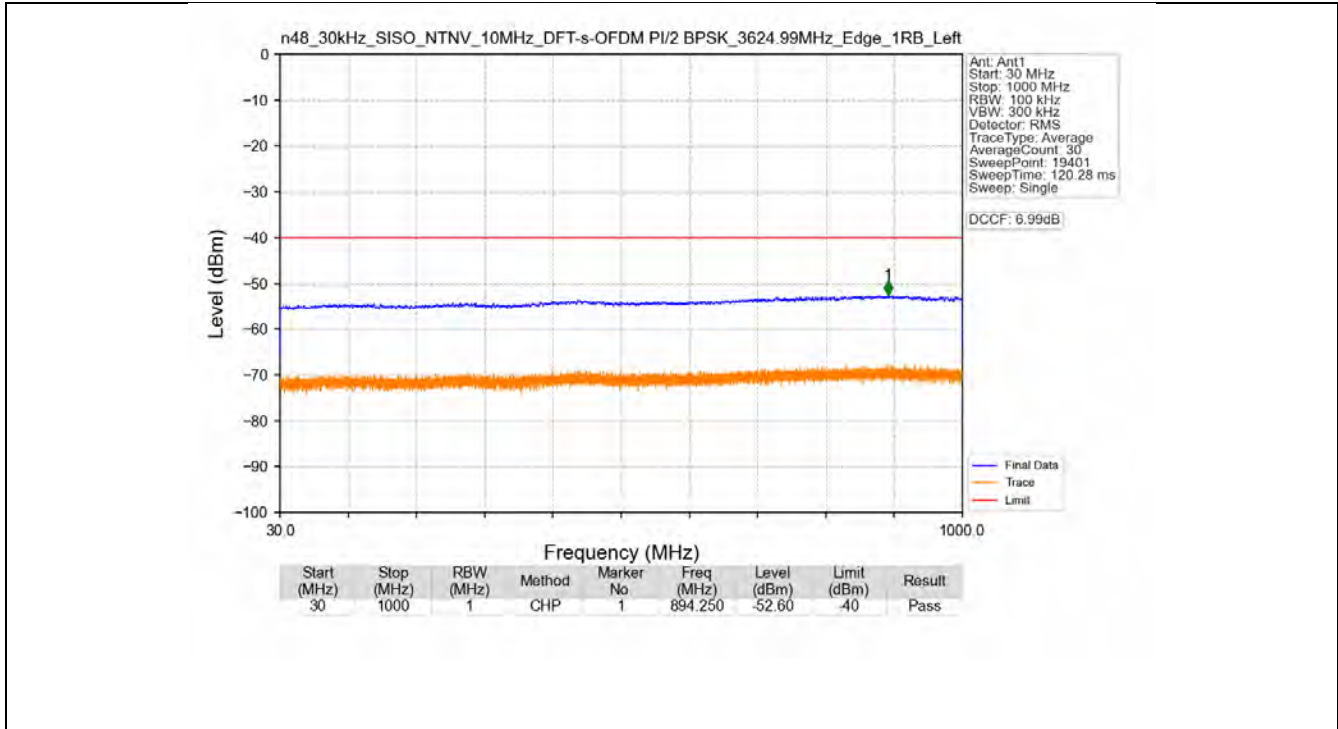


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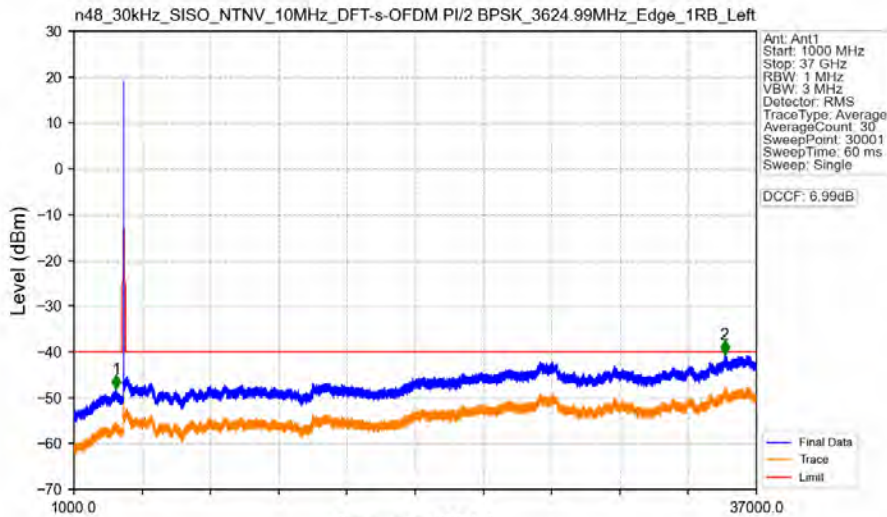
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n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_3624.99MHz_Edge_1RB_Left



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	3618.99	1	/	1	3223.600	-48.21	-40	Pass
3618.99	3634.99	1	/	/	/	/	/	/
3634.99	37000	1	/	2	35321.200	-40.60	-40	Pass

n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_3694.98MHz_Edge_1RB_Right



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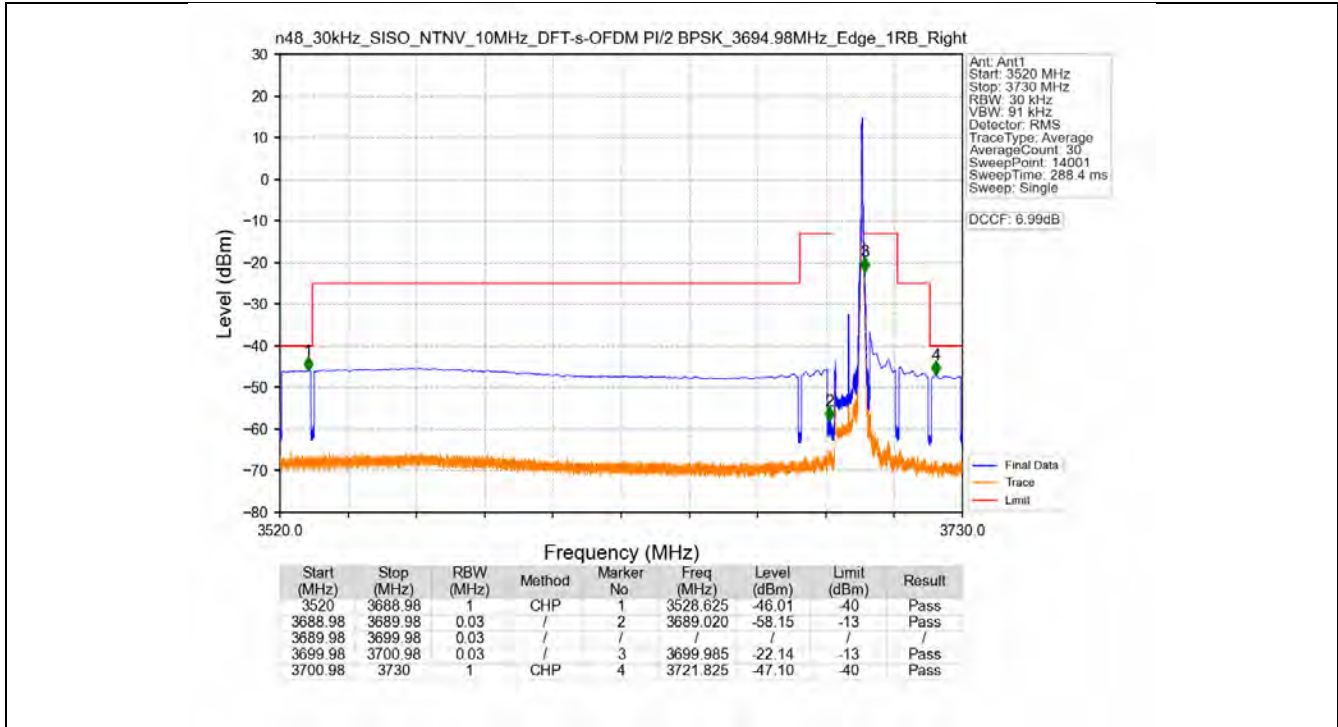


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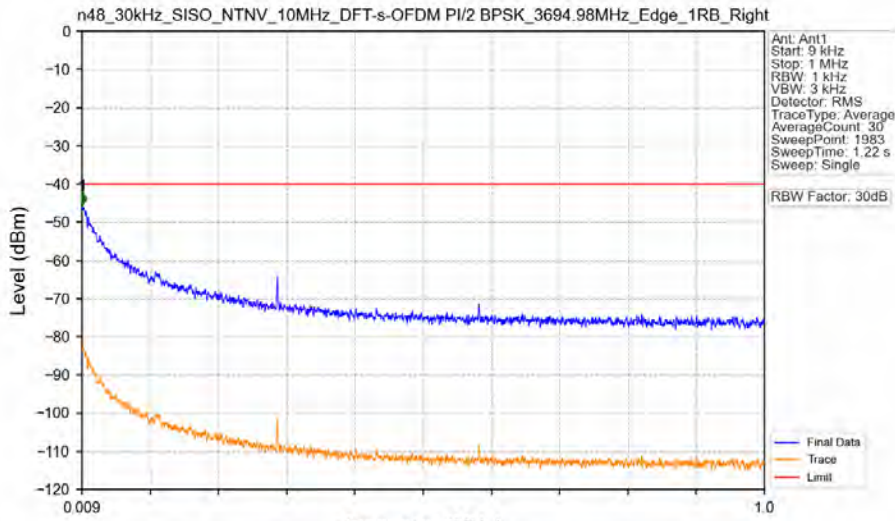
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n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_3694.98MHz_Edge_1RB_Right



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
0.009	1	1	/	1	0.009	-45.78	-40	Pass

n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_3694.98MHz_Edge_1RB_Right



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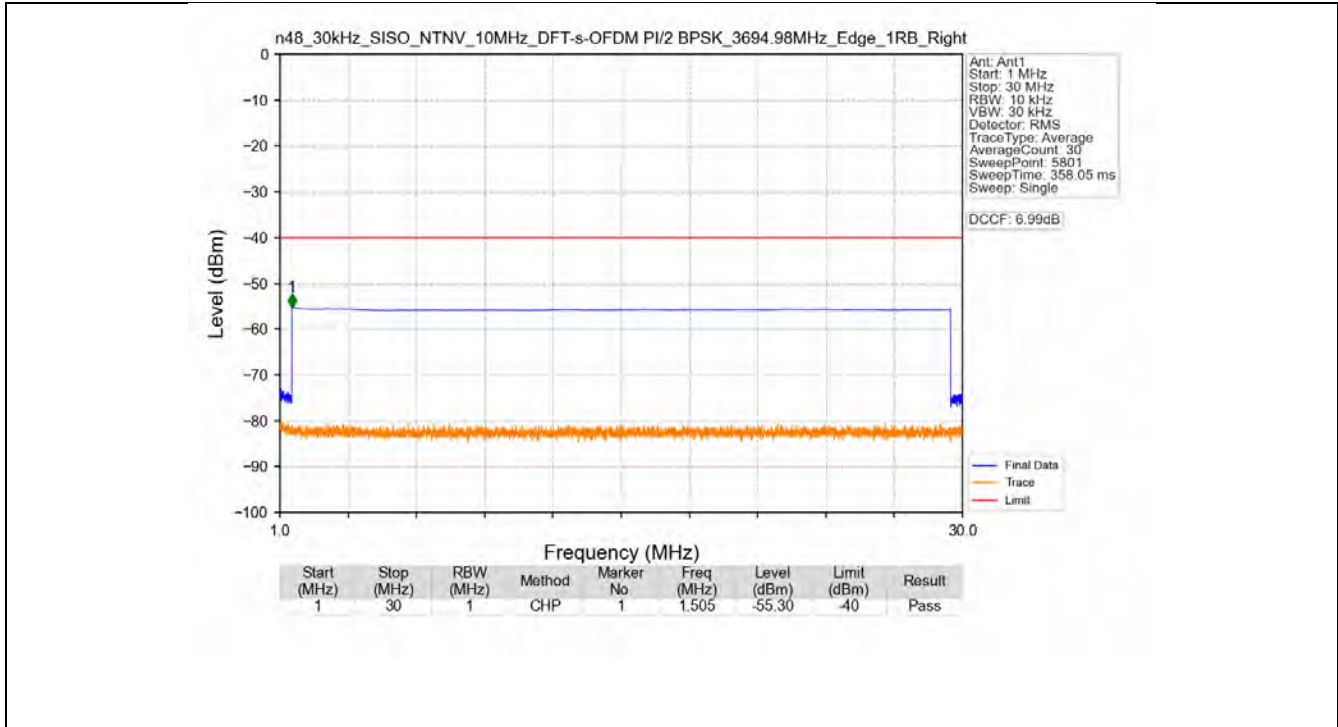


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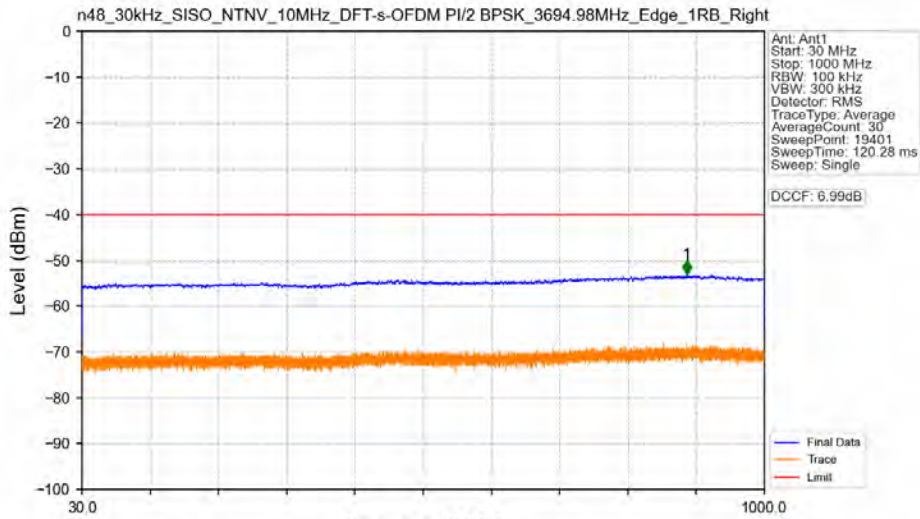
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n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_3694.98MHz_Edge_1RB_Right



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	1000	1	CHP	1	889.650	-53.07	-40	Pass

n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_3694.98MHz_Edge_1RB_Right



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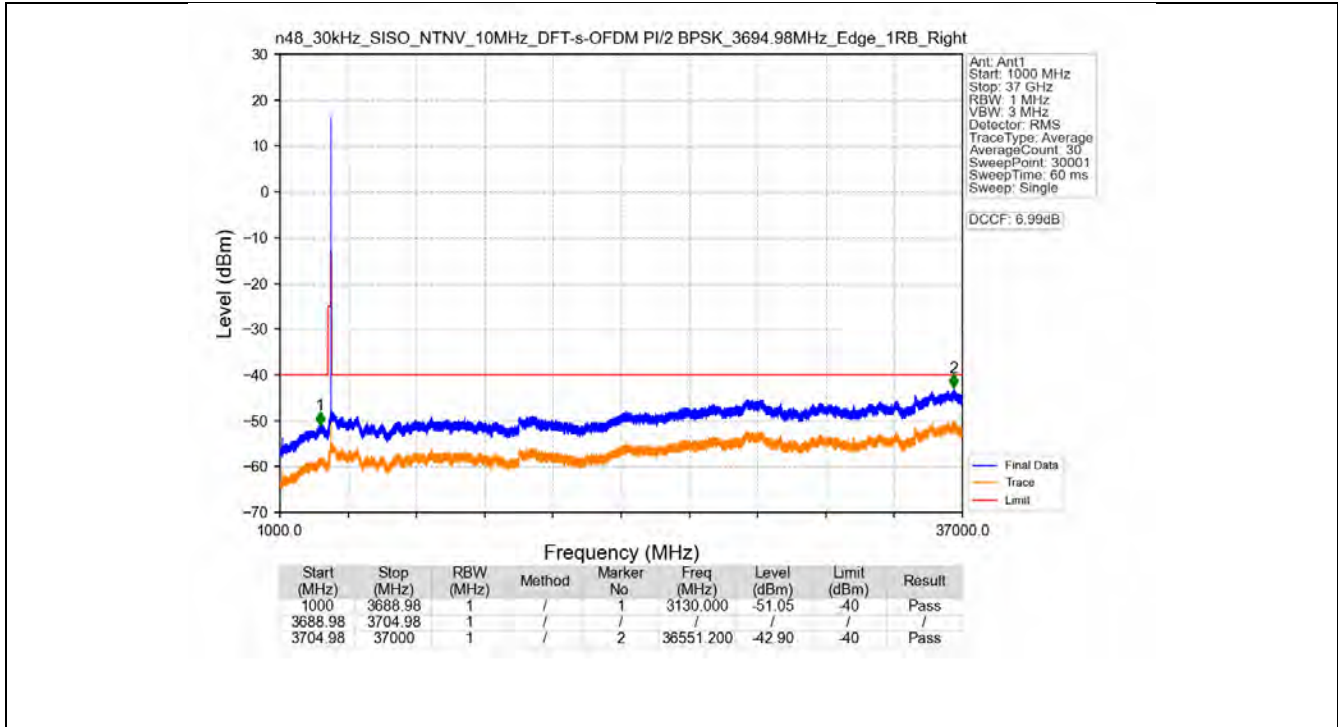


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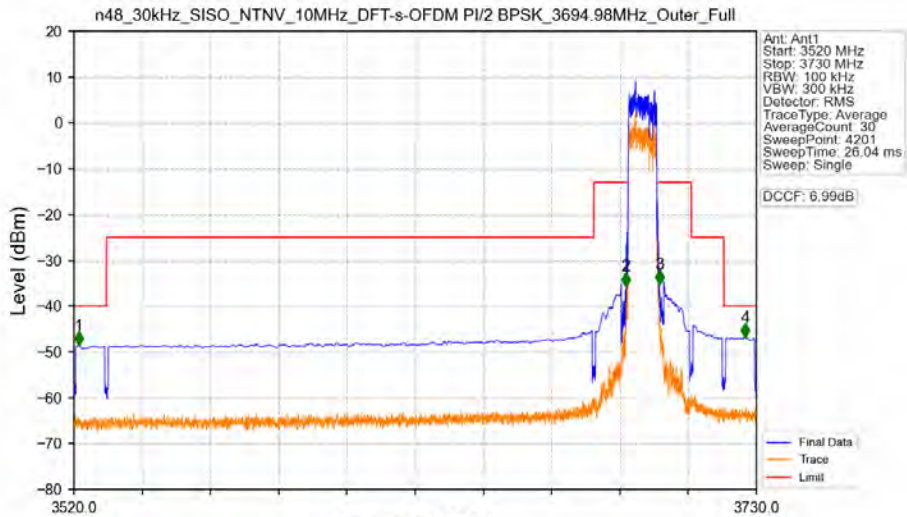
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n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_3694.98MHz_Outer_Full



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3520	3688.98	1	CHP	1	3521.450	-48.65	-40	Pass
3688.98	3689.98	0.1	/	2	3689.900	-35.66	-13	Pass
3689.98	3699.98	0.1	/	/	/	/	/	/
3699.98	3700.98	0.1	/	3	3700.150	-35.27	-13	Pass
3700.98	3730	1	CHP	4	3726.550	-46.84	-40	Pass

n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_3694.98MHz_Inner_1RB_Right



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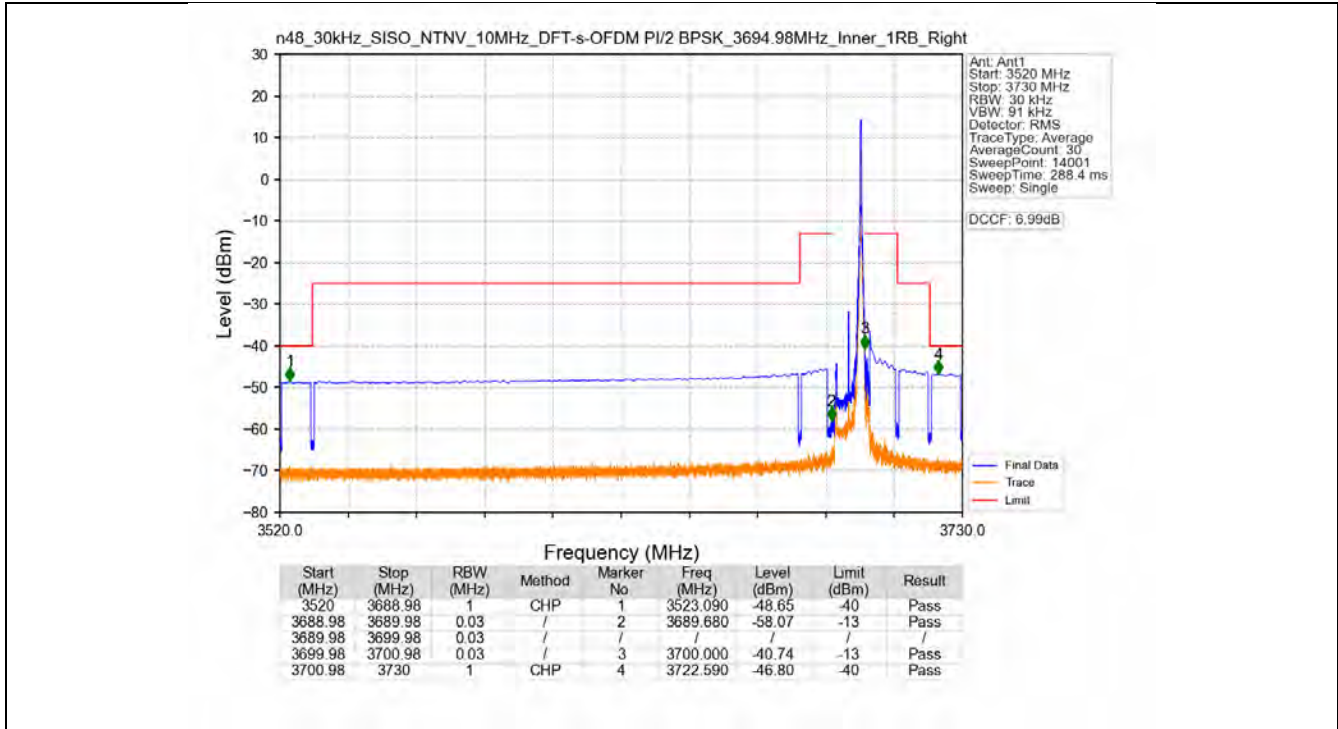


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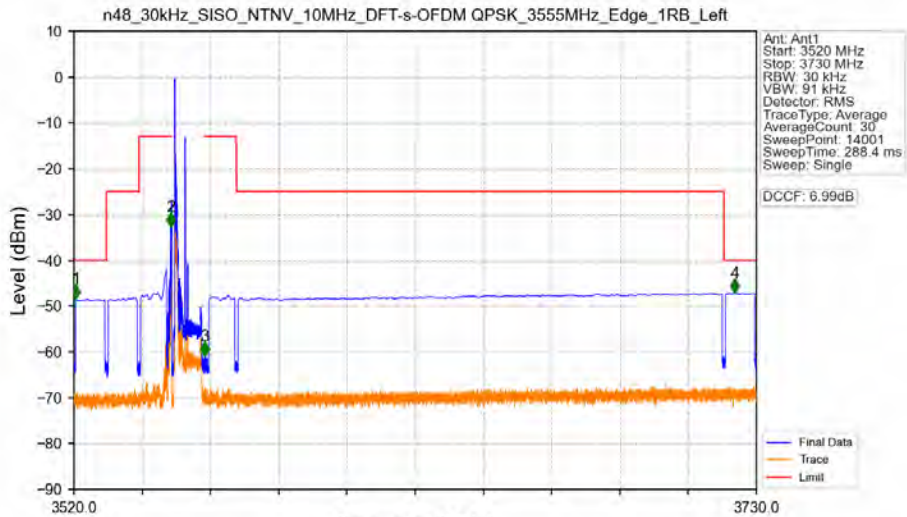
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n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_QPSK_3555MHz_Edge_1RB_Left



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3520	3549	1	CHP	1	3520.525	-48.43	-40	Pass
3549	3550	0.03	/	2	3549.835	-32.63	-13	Pass
3550	3560	0.03	/	/	/	/	/	/
3560	3561	0.03	/	3	3560.275	-60.94	-13	Pass
3561	3730	1	CHP	4	3723.340	-47.12	-40	Pass

n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_QPSK_3555MHz_Edge_1RB_Left



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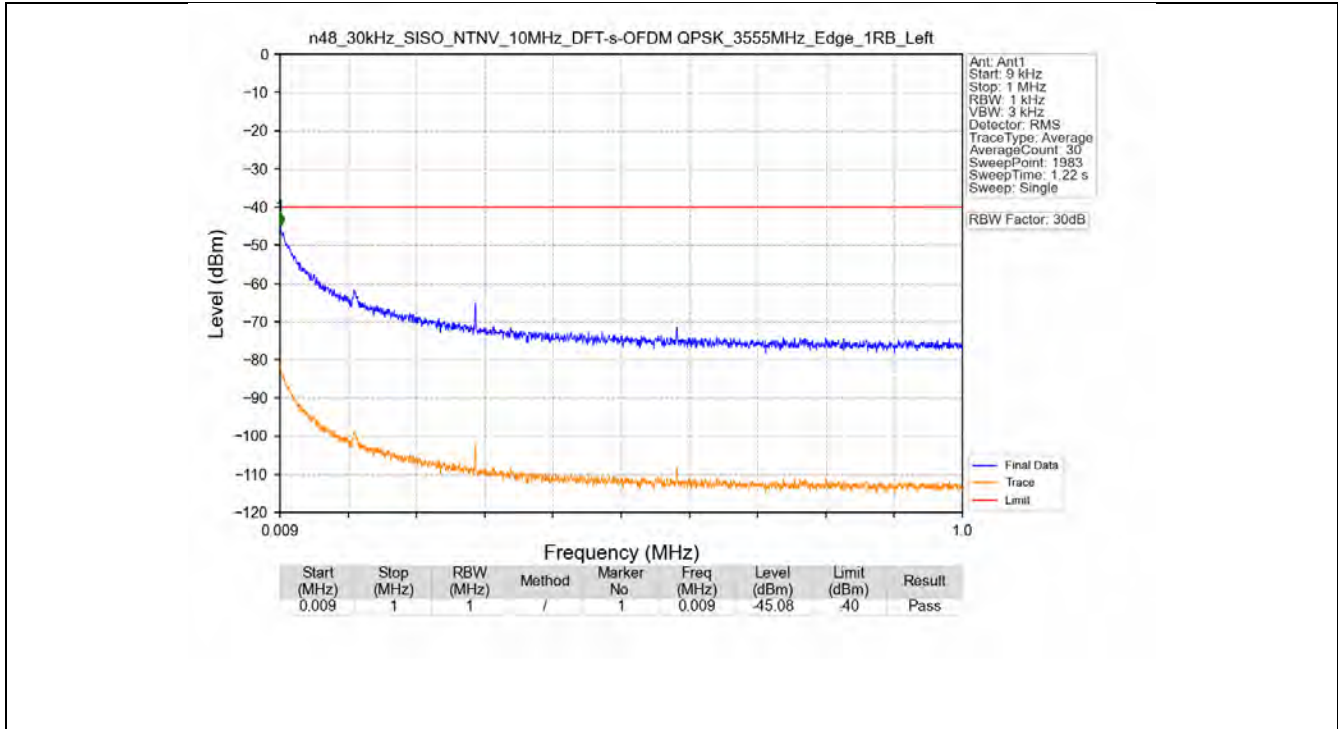


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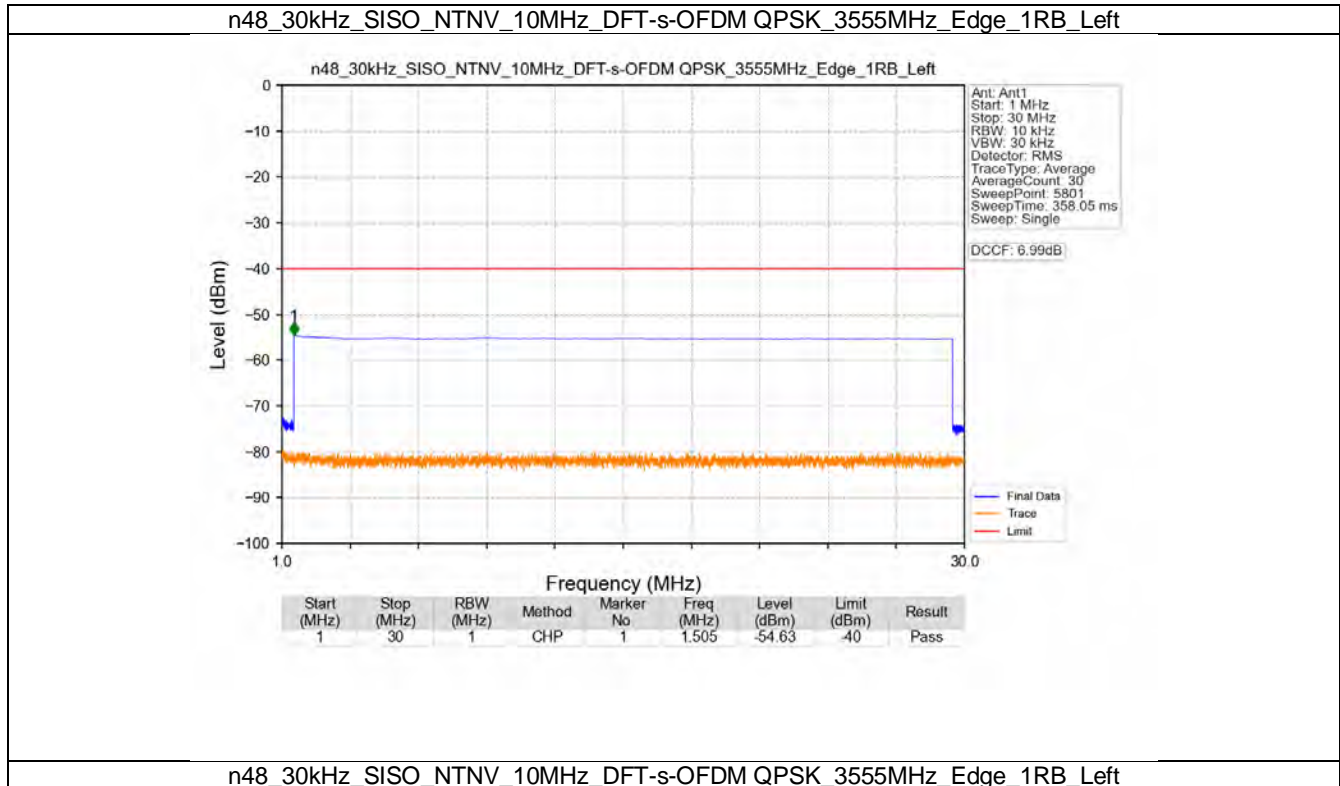


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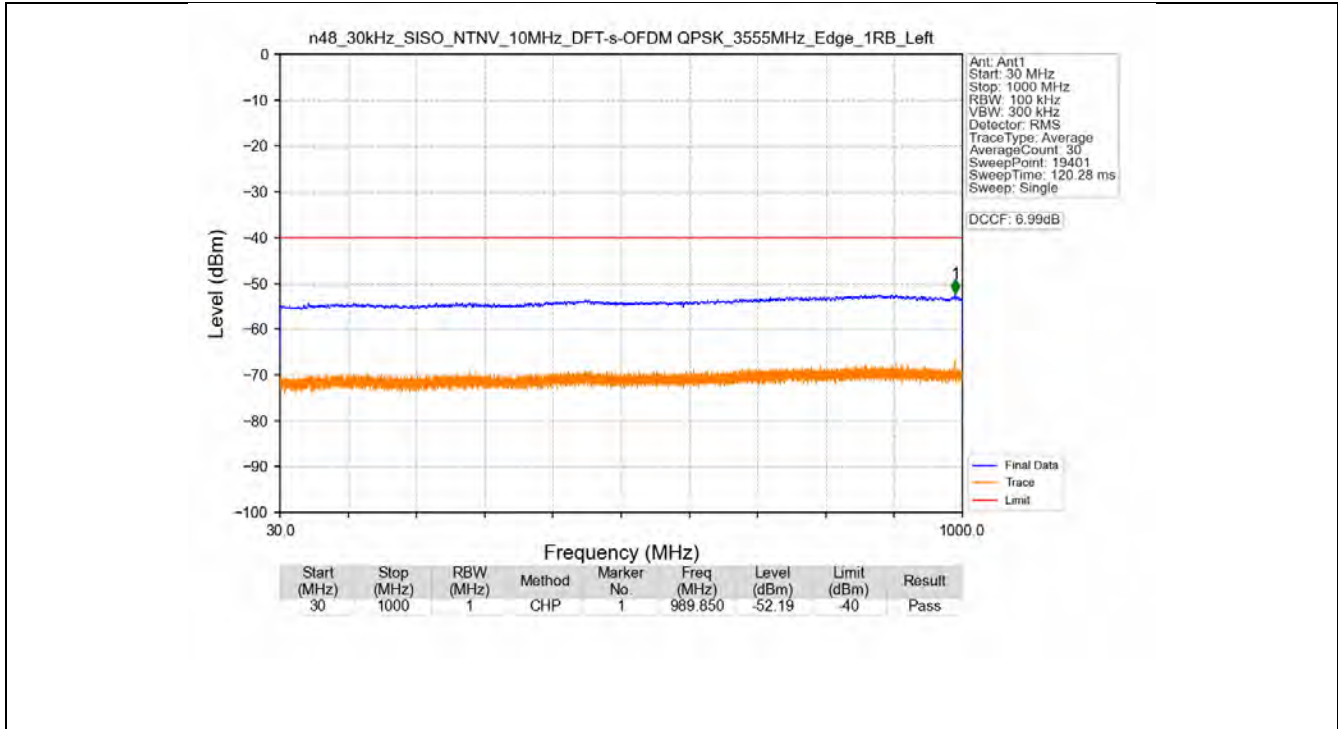


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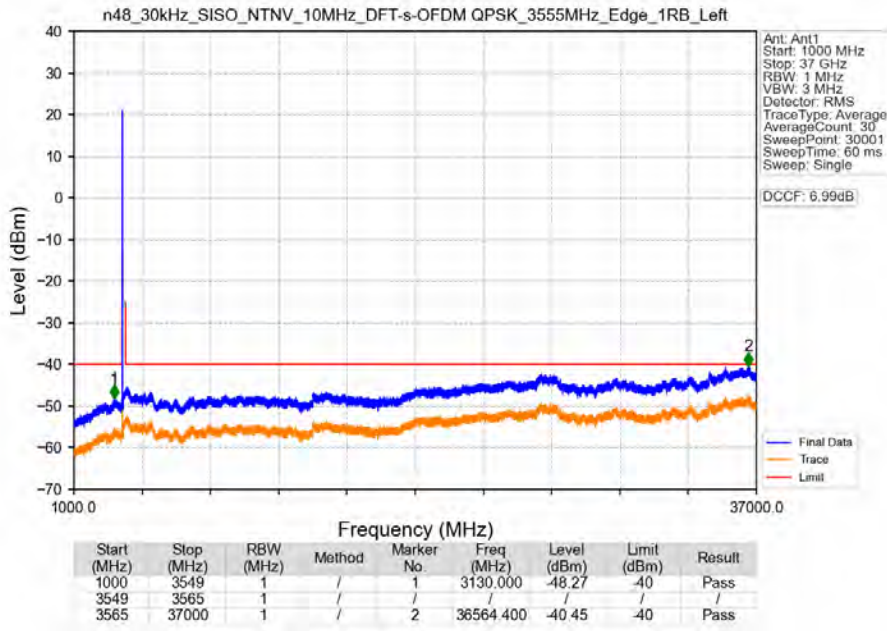
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n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_3555MHz_Edge_1RB_Left



n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_3555MHz_Outer_Full



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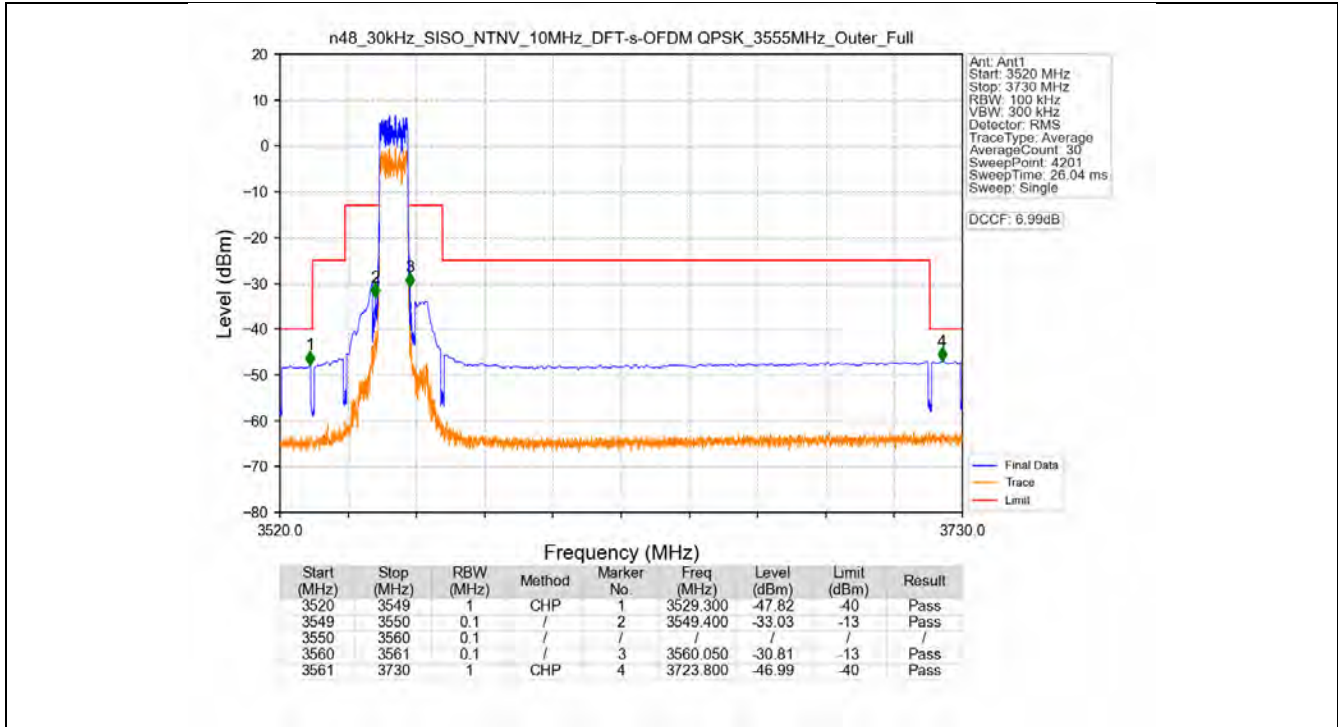


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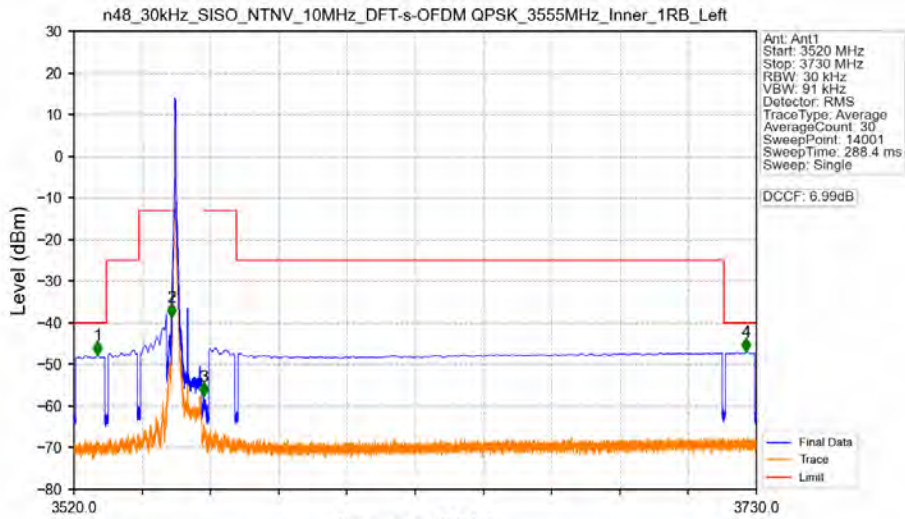
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n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_3555MHz_Inner_1RB_Left



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3520	3549	1	CHP	1	3527.215	-47.85	-40	Pass
3549	3550	0.03	/	2	3549.985	-38.71	-13	Pass
3550	3560	0.03	/	/	/	/	/	/
3560	3561	0.03	/	3	3560.005	-57.70	-13	Pass
3561	3730	1	CHP	4	3726.895	-47.10	-40	Pass

n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_3624.99MHz_Edge_1RB_Left



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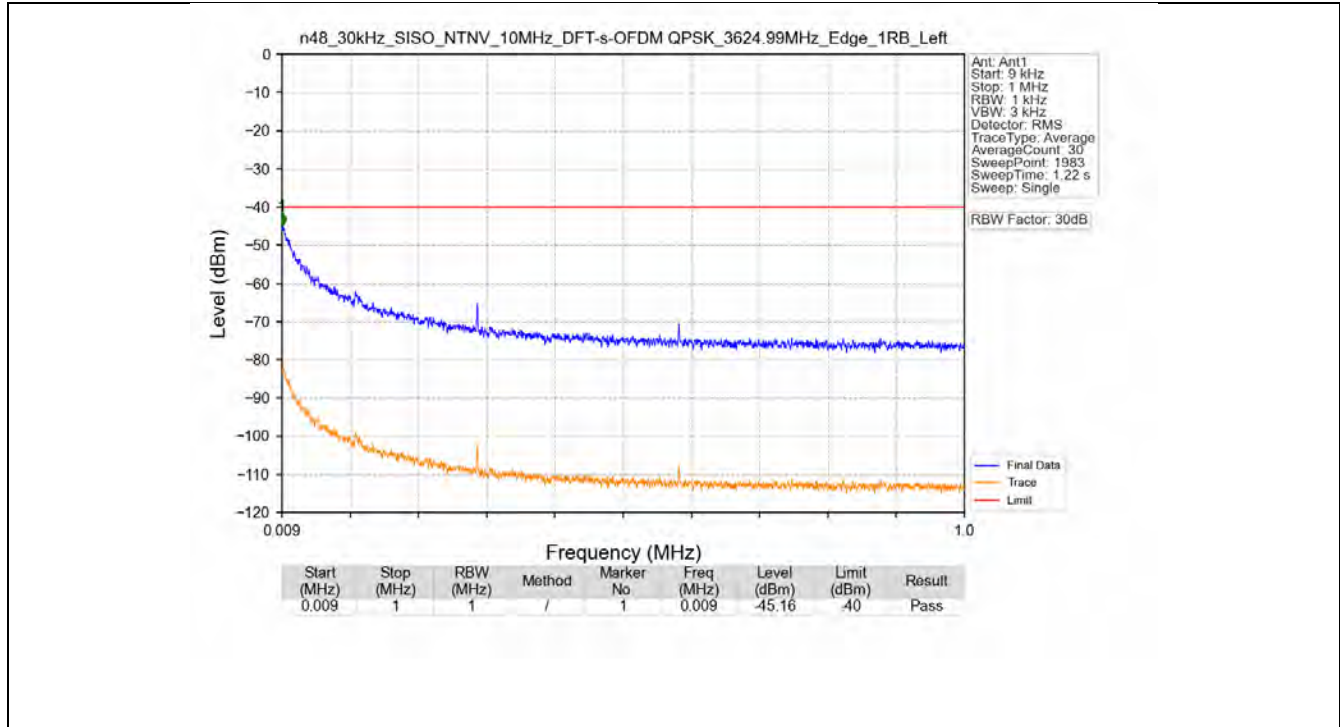


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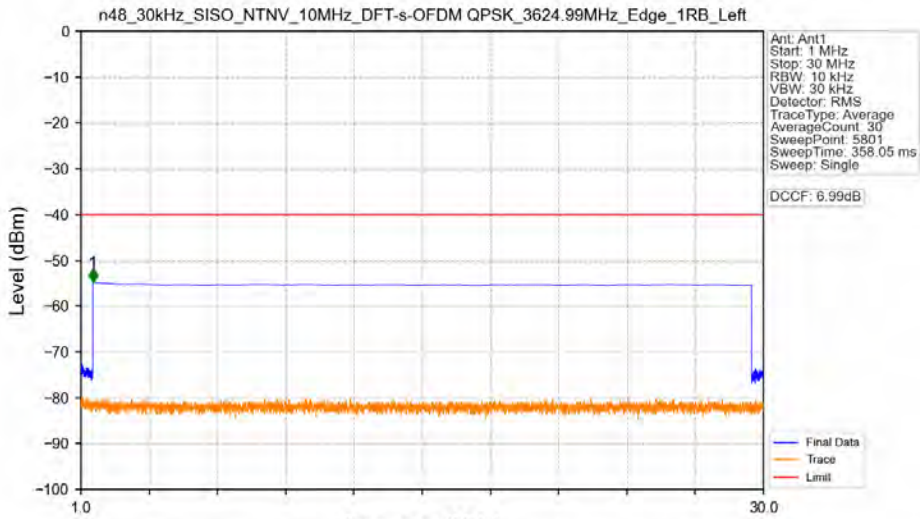
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n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_QPSK_3624.99MHz_Edge_1RB_Left



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1	30	1	CHP	1	1.515	-54.83	-40	Pass

n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_QPSK_3624.99MHz_Edge_1RB_Left



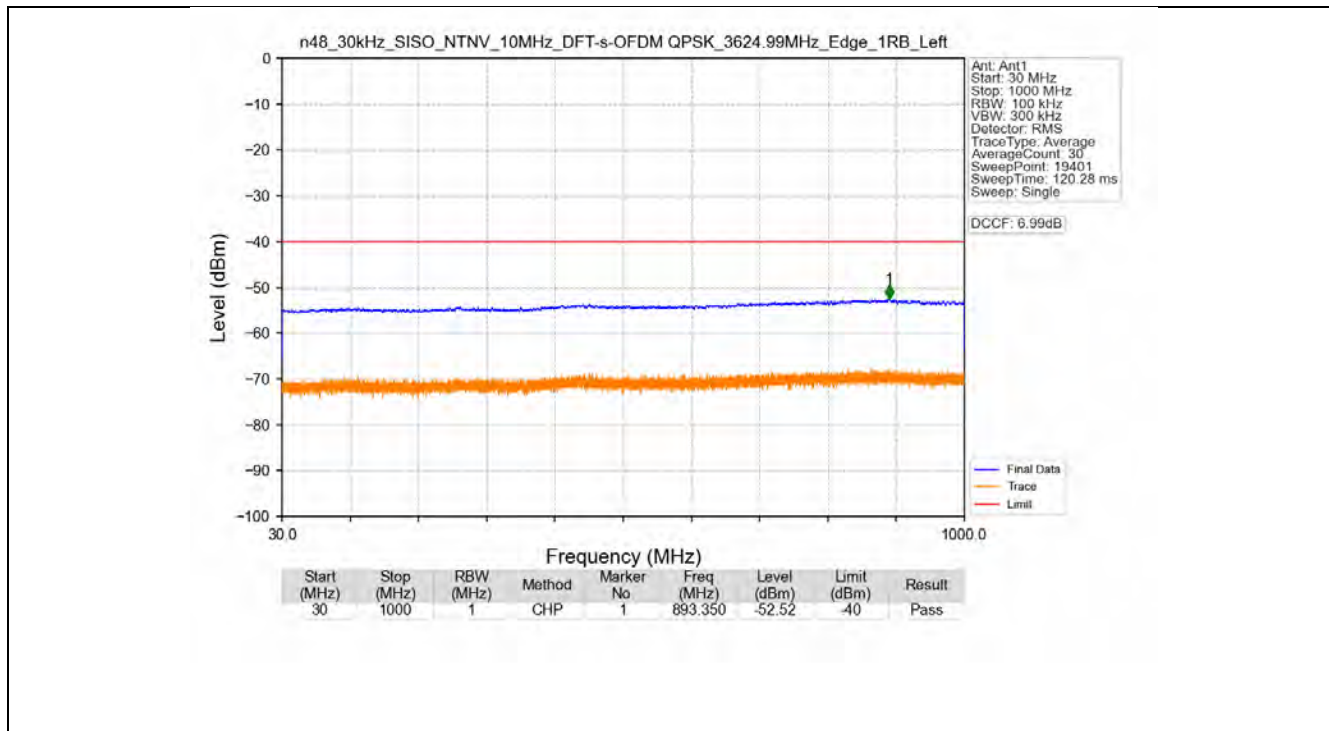
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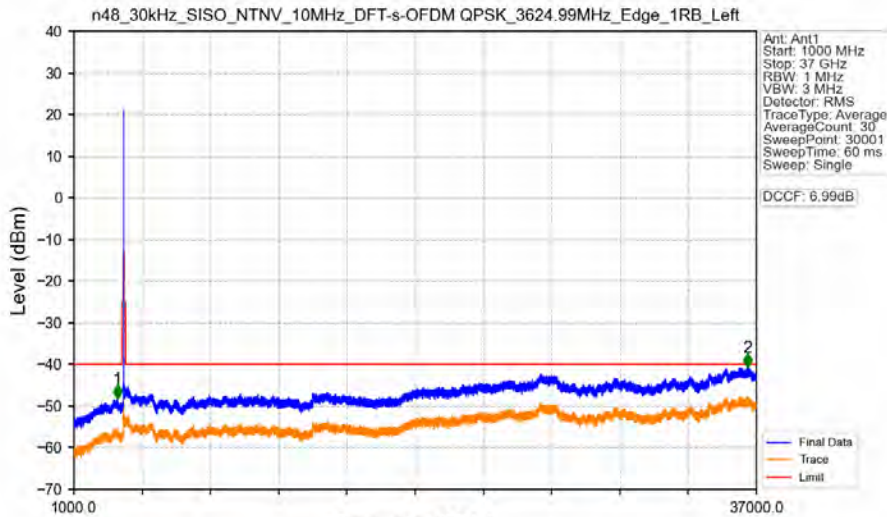
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n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_QPSK_3624.99MHz_Edge_1RB_Left



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	3618.99	1	/	1	3295.600	-48.32	-40	Pass
3618.99	3634.99	1	/	/	/	/	/	/
3634.99	37000	1	/	2	36529.600	-40.66	-40	Pass

n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_QPSK_3694.98MHz_Edge_1RB_Right



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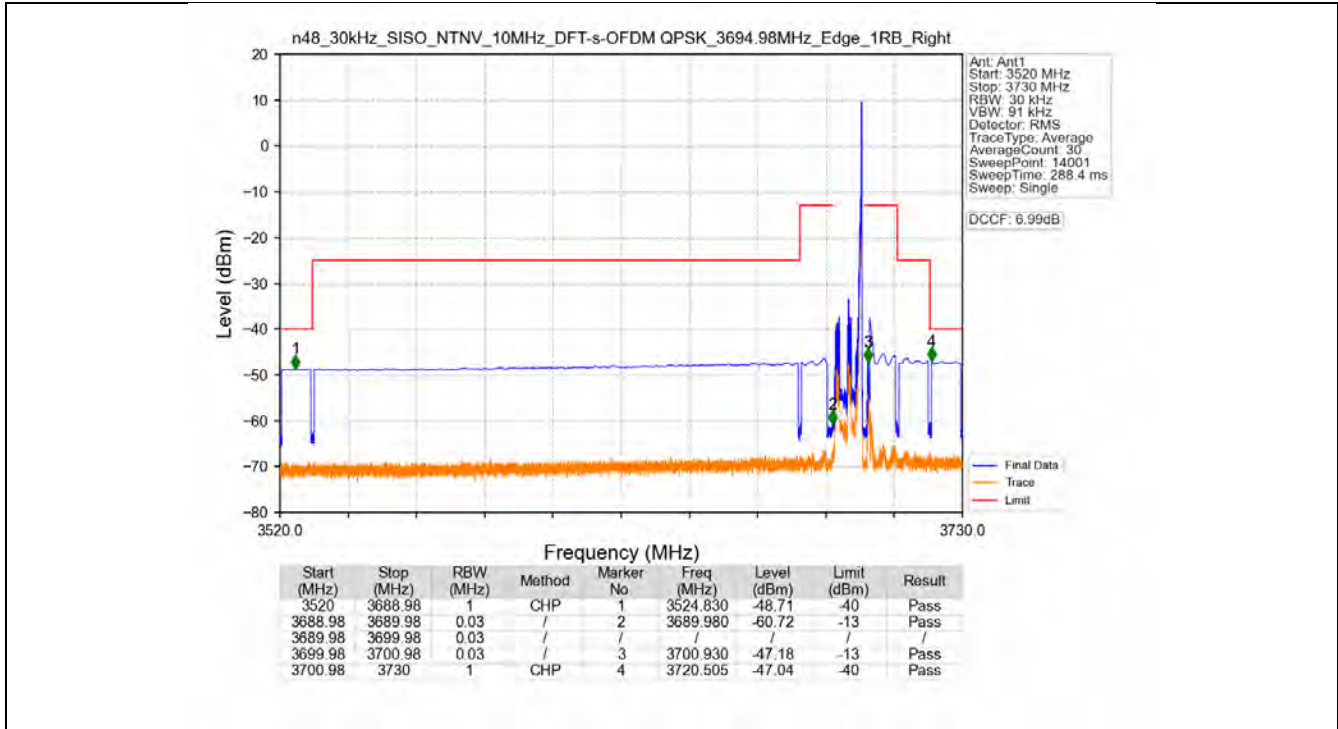


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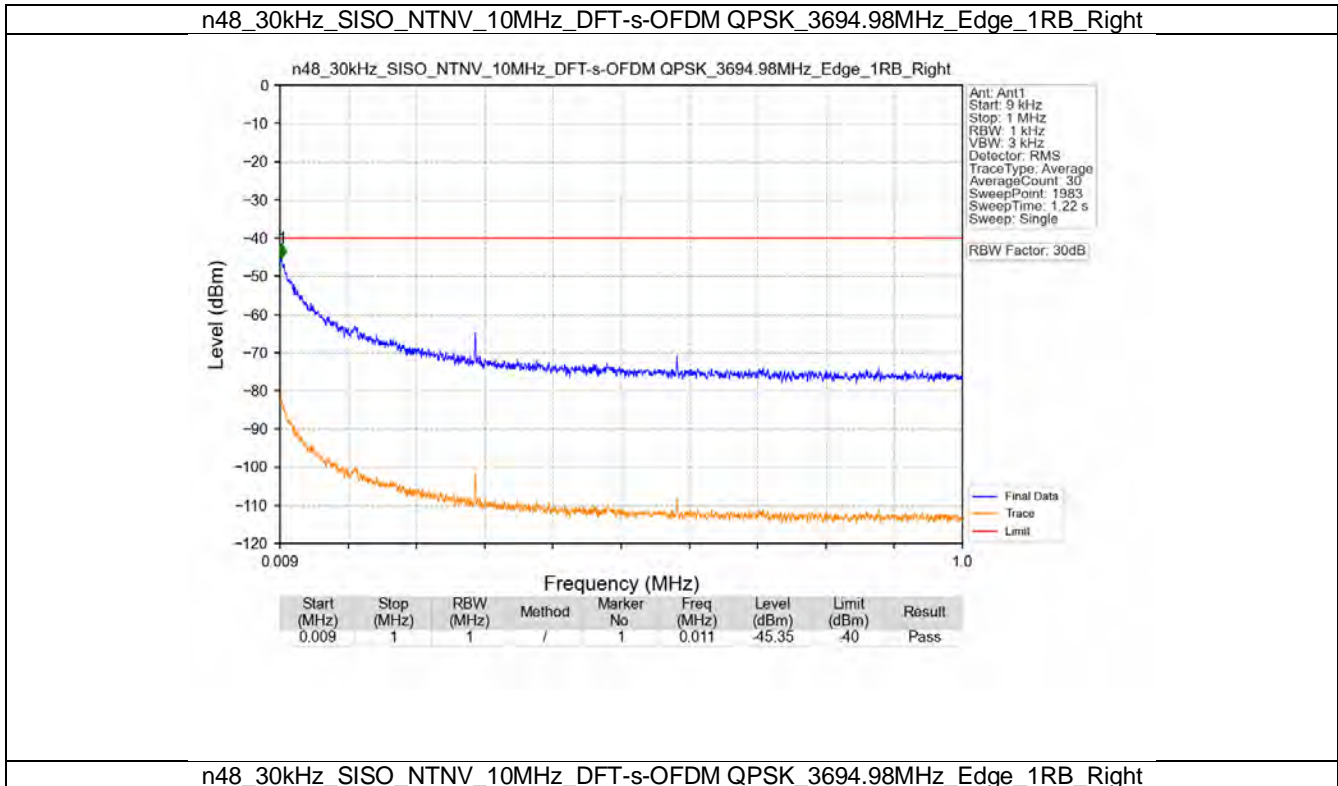


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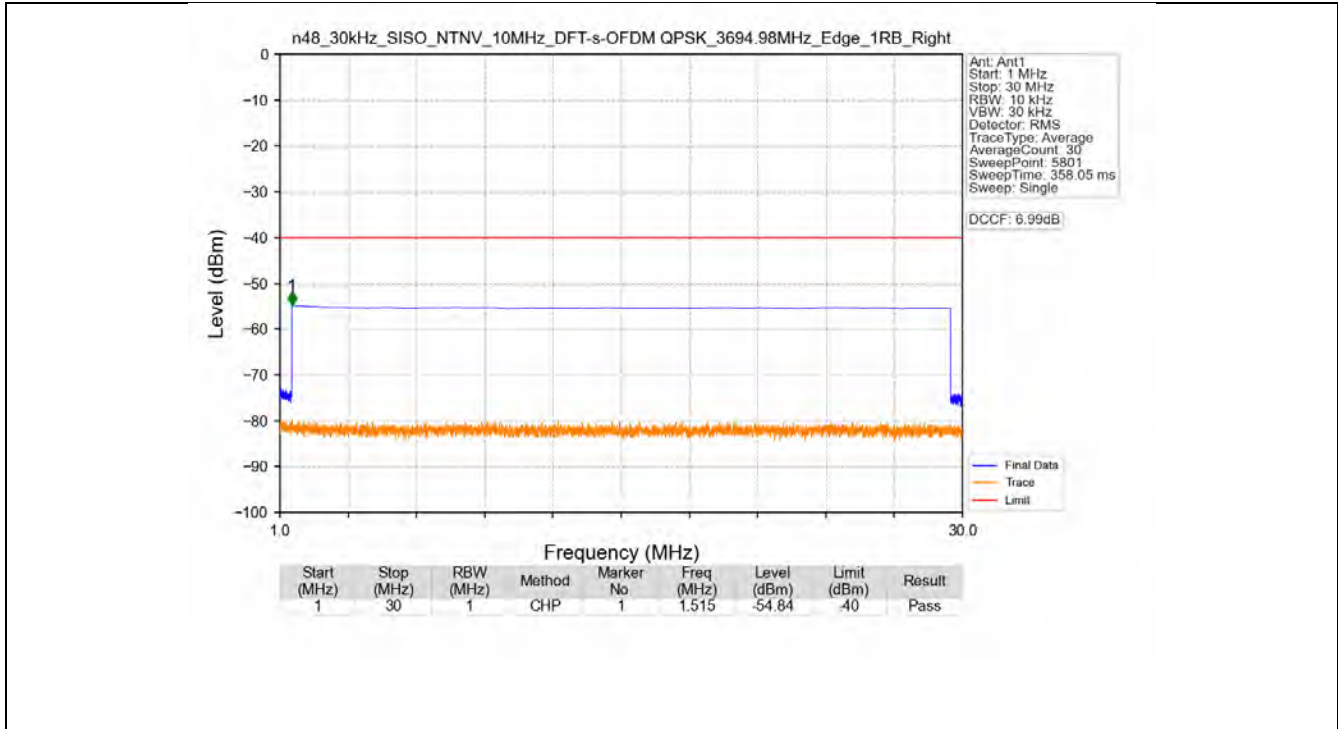


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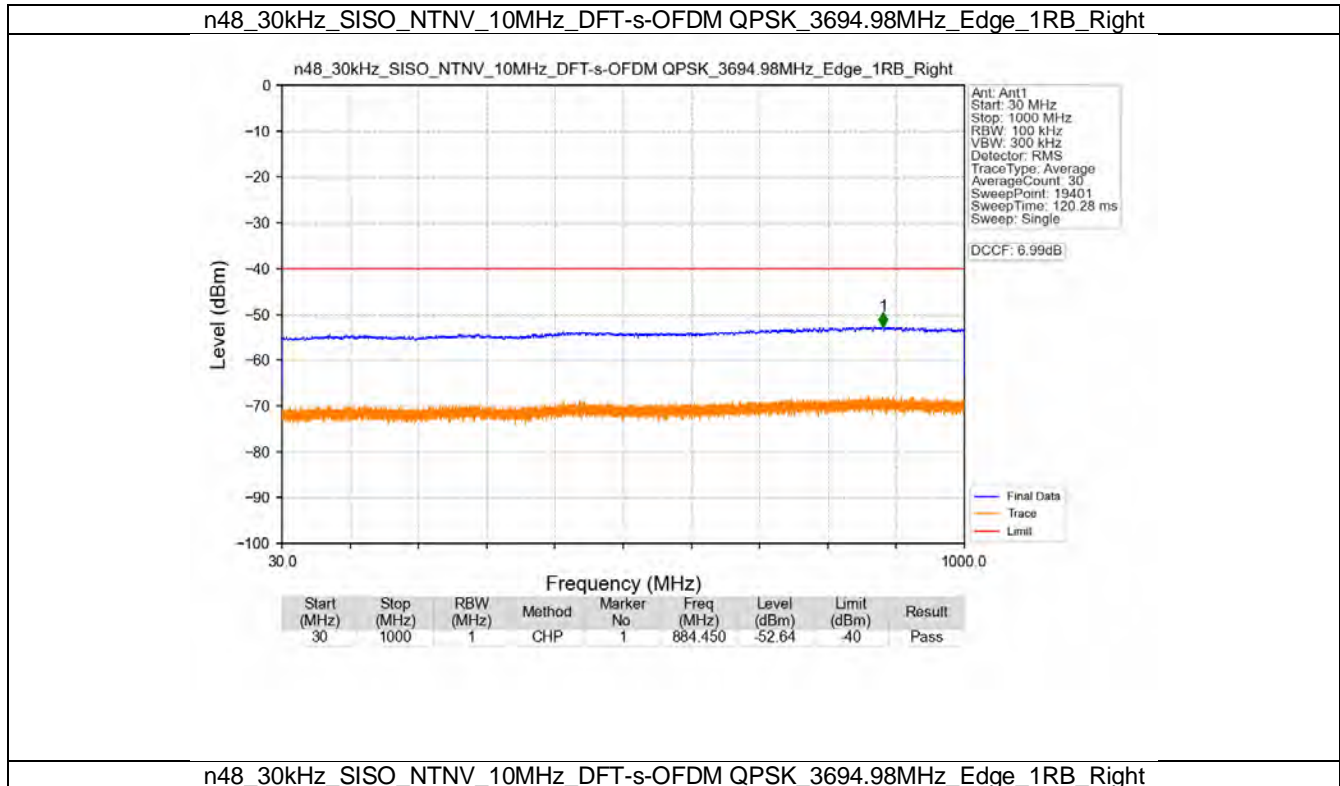


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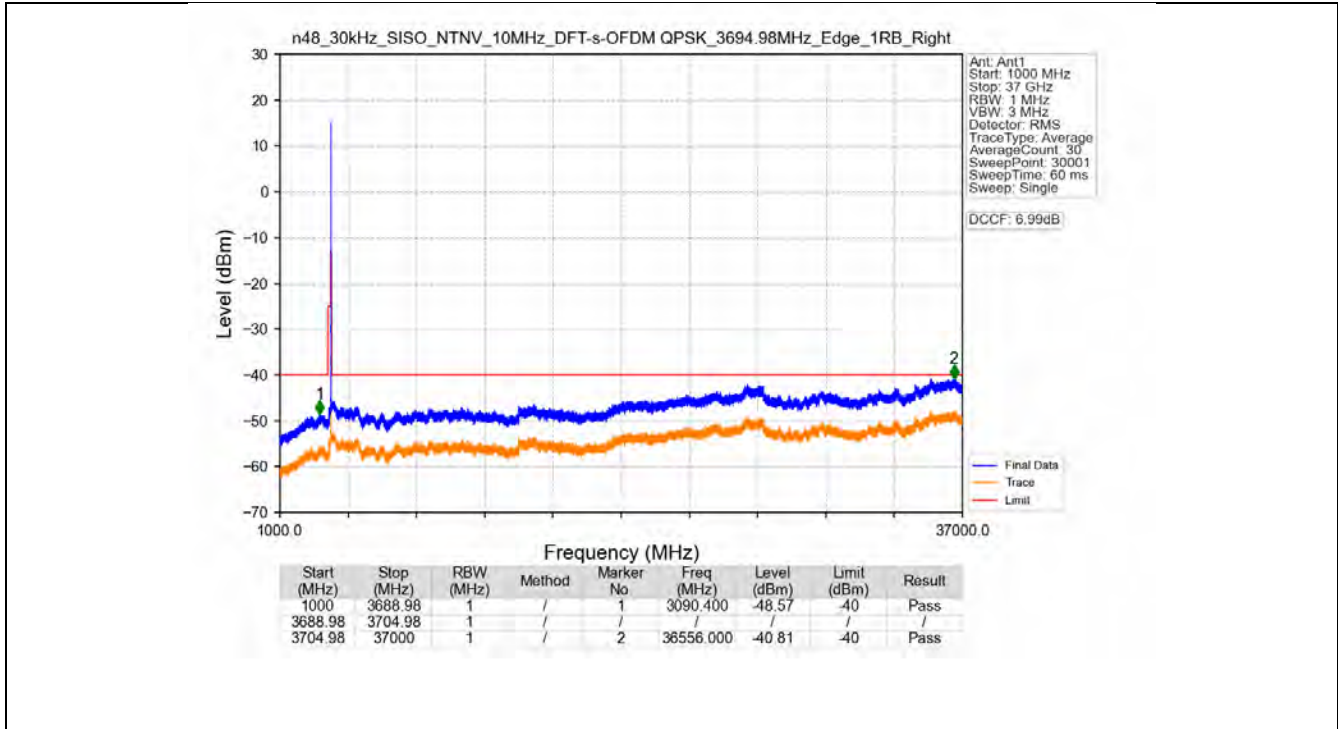


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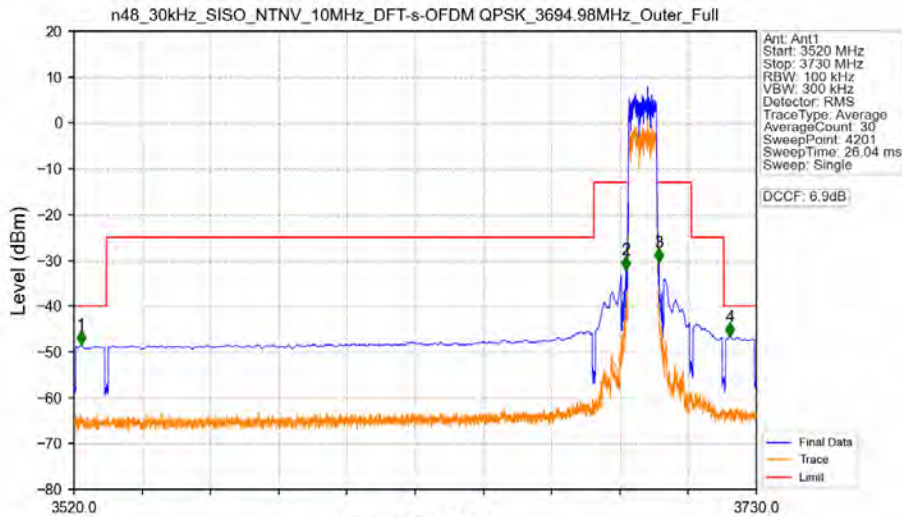
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n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_QPSK_3694.98MHz_Outer_Full



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3520	3688.98	1	CHP	1	3522.200	-48.47	-40	Pass
3688.98	3689.98	0.1	/	2	3689.850	-32.14	-13	Pass
3689.98	3699.98	0.1	/	/	/	/	/	/
3699.98	3700.98	0.1	/	3	3700.050	-30.39	-13	Pass
3700.98	3730	1	CHP	4	3721.850	-46.70	-40	Pass

n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_QPSK_3694.98MHz_Inner_1RB_Right



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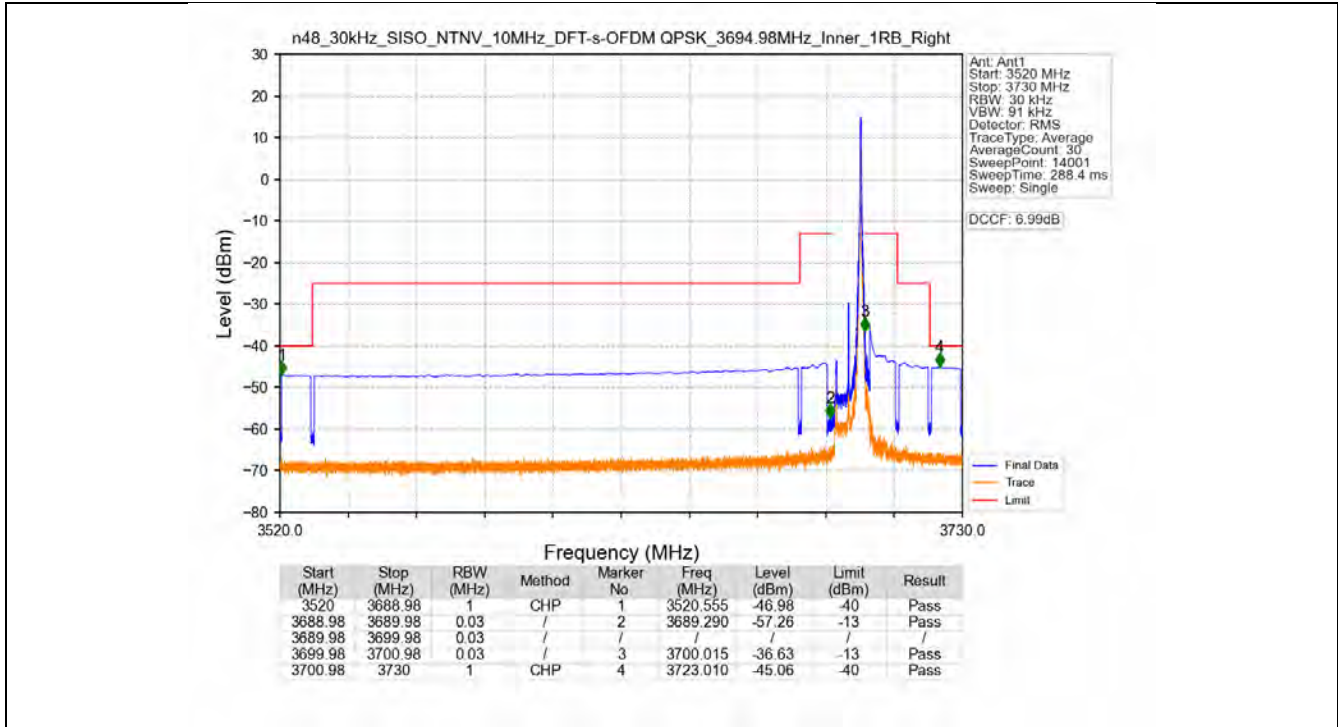


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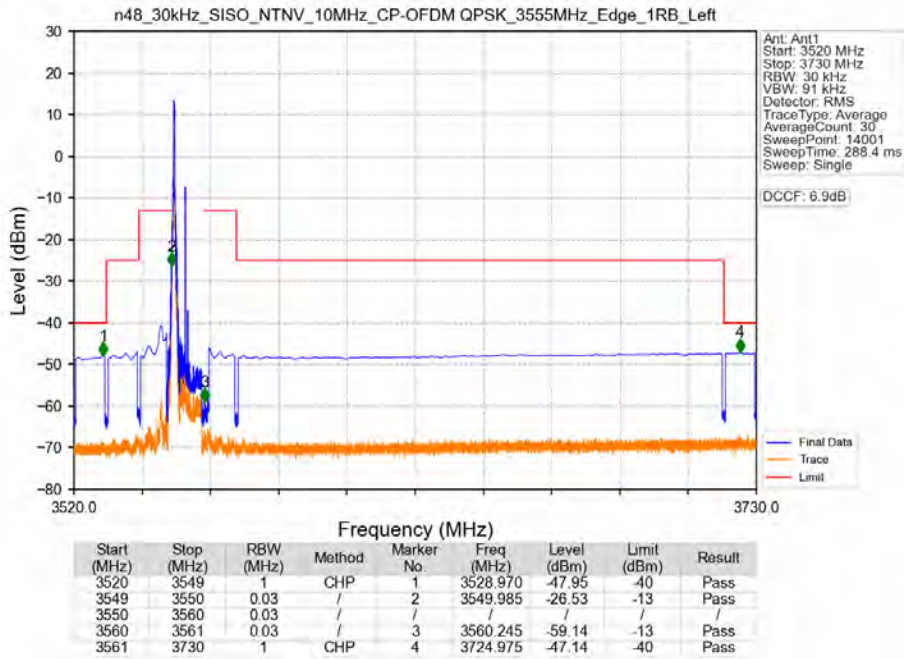
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n48_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_3555MHz_Edge_1RB_Left



n48_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_3555MHz_Edge_1RB_Left



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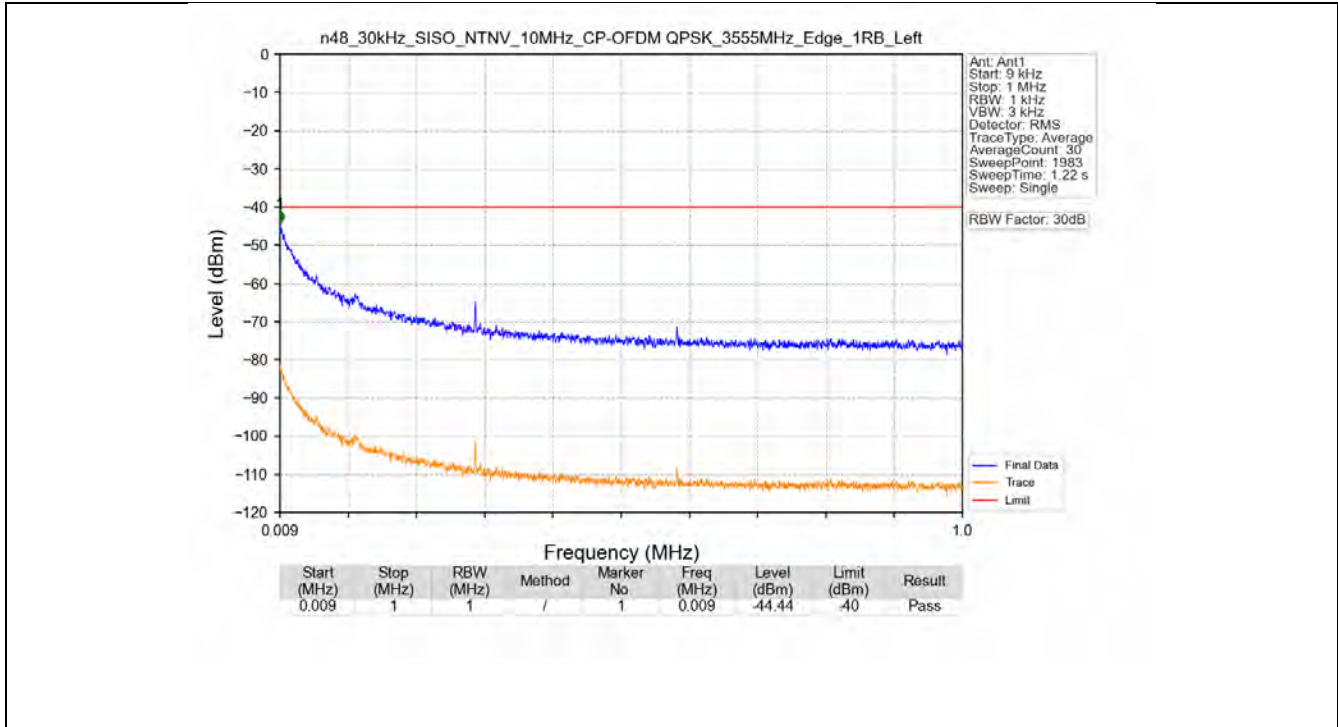


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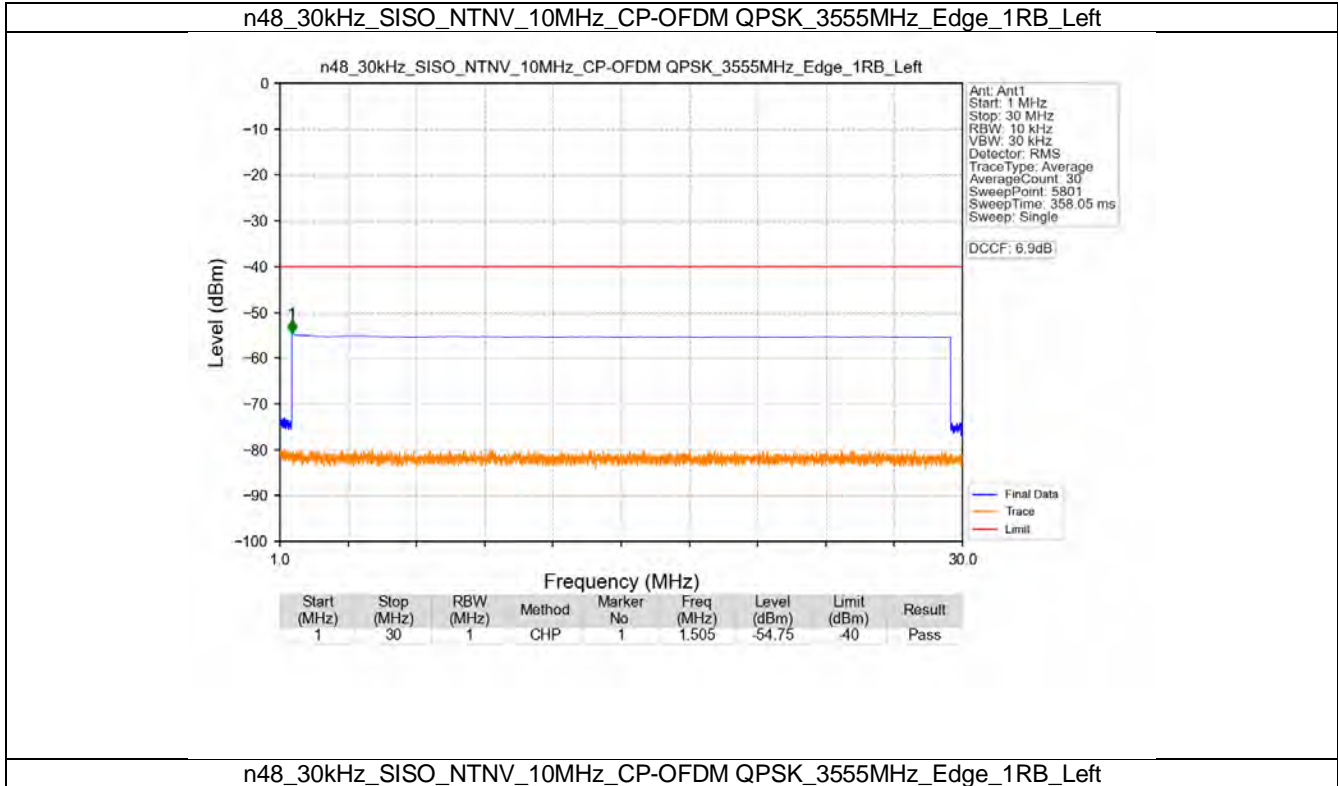


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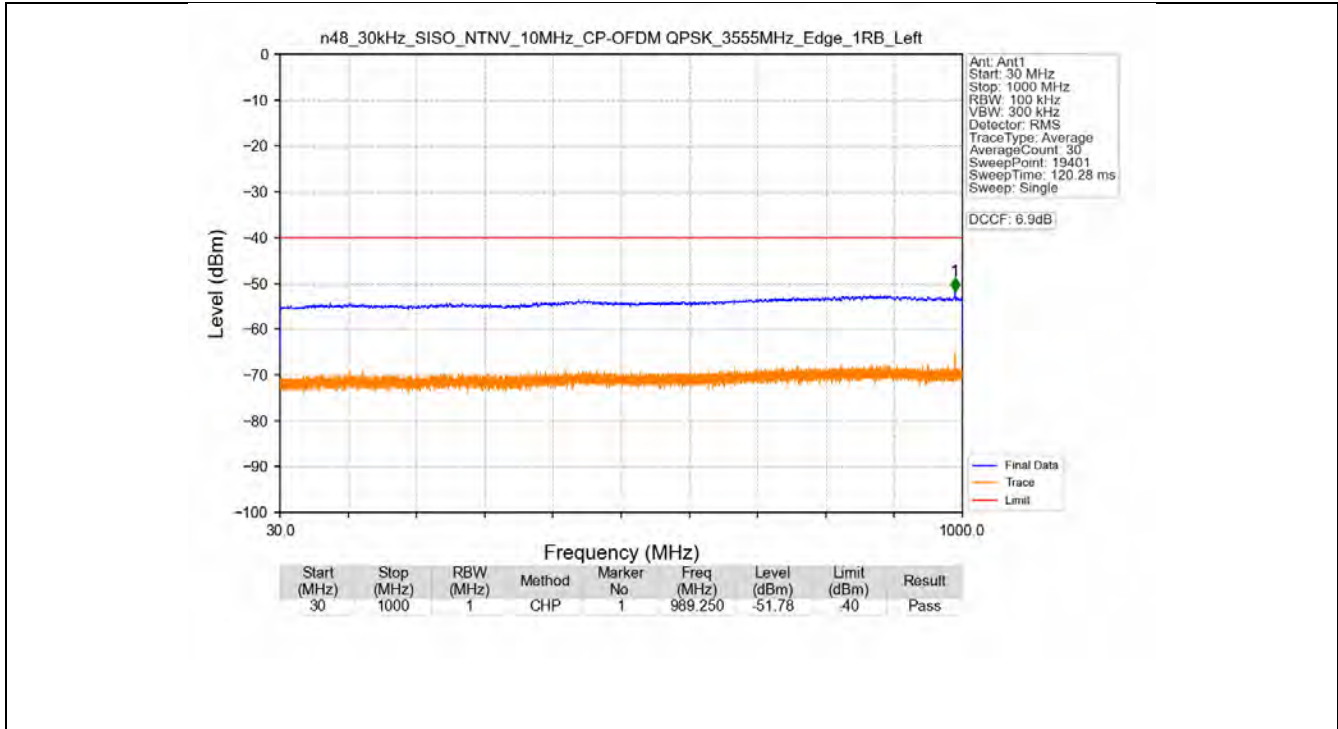


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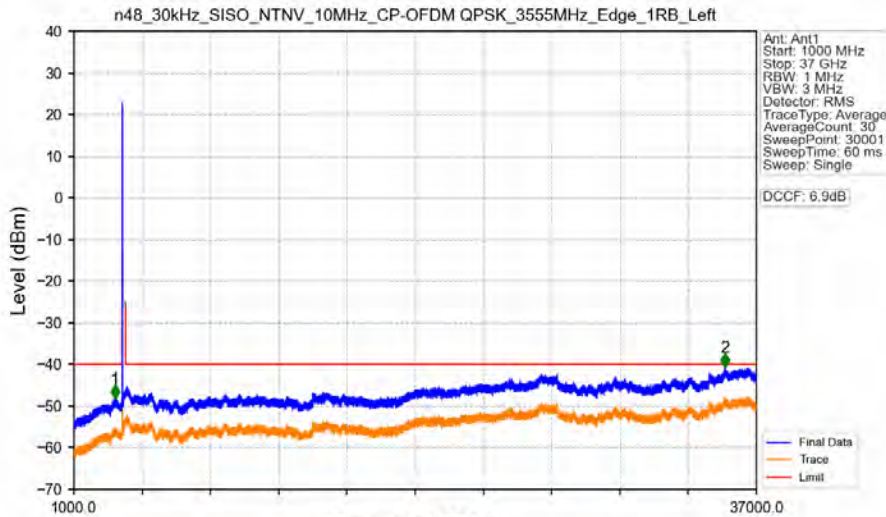
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n48_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_3555MHz_Edge_1RB_Left



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	3549	1	/	1	3162.400	-48.23	-40	Pass
3549	3565	1	/	/	/	/	/	/
3565	37000	1	/	2	35332.000	-40.76	-40	Pass

n48_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_3555MHz_Outer_Full



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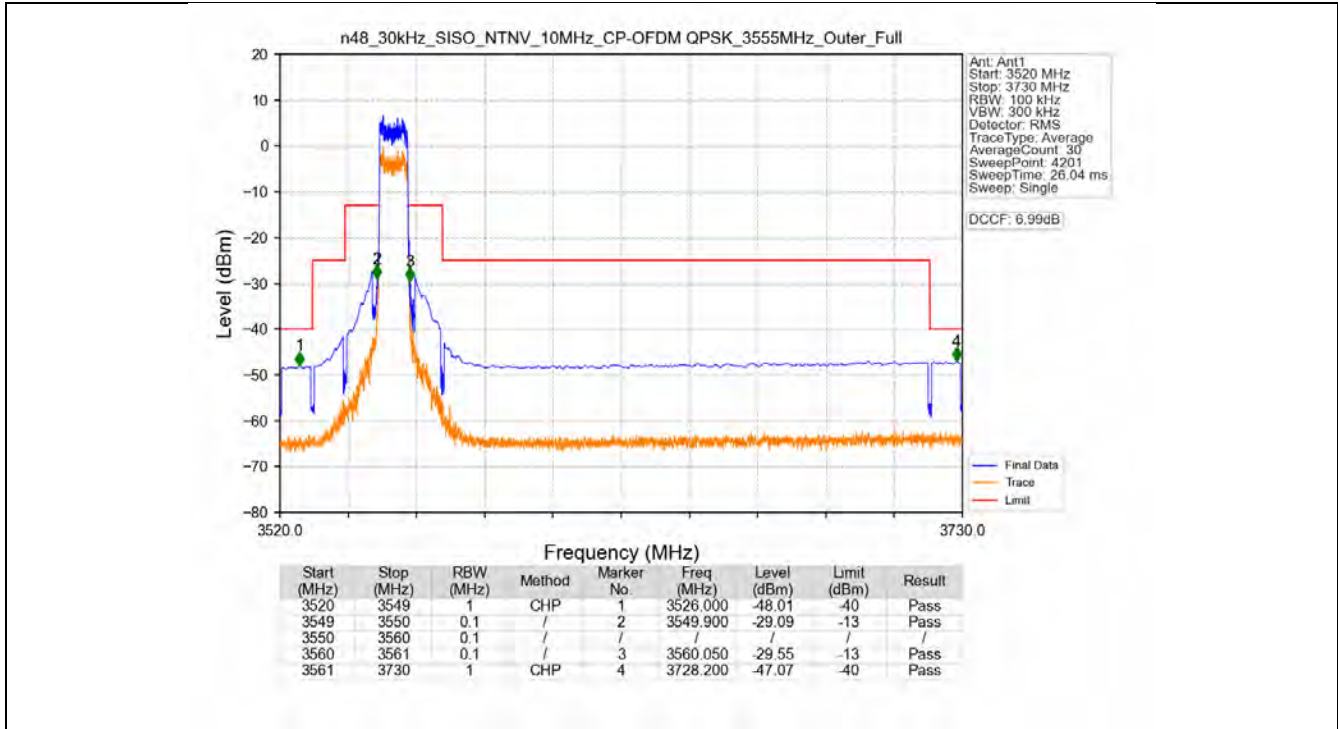


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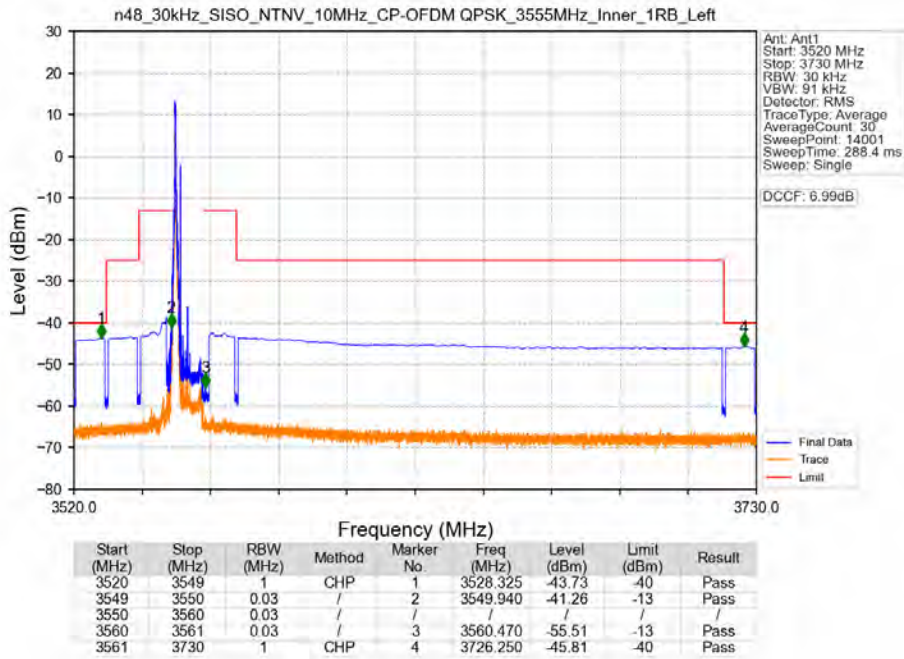
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n48_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_3555MHz_Inner_1RB_Left



n48_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_3624.99MHz_Edge_1RB_Left



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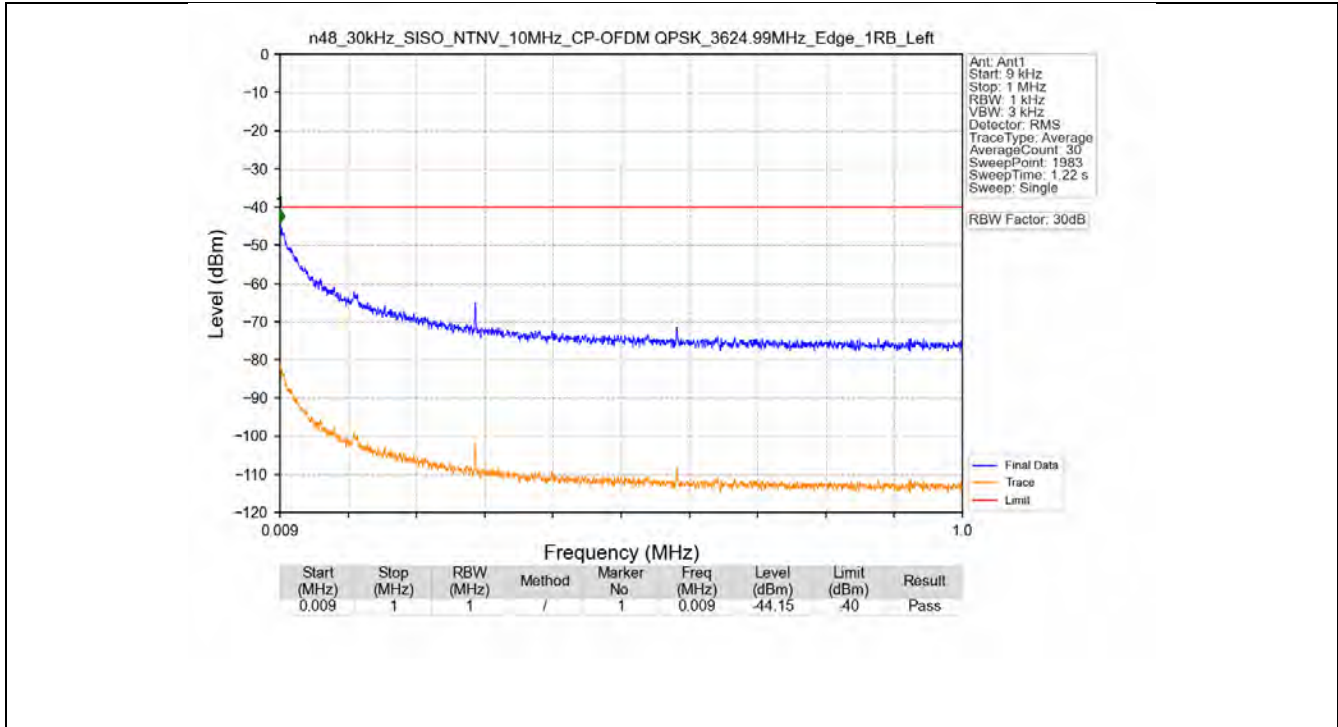


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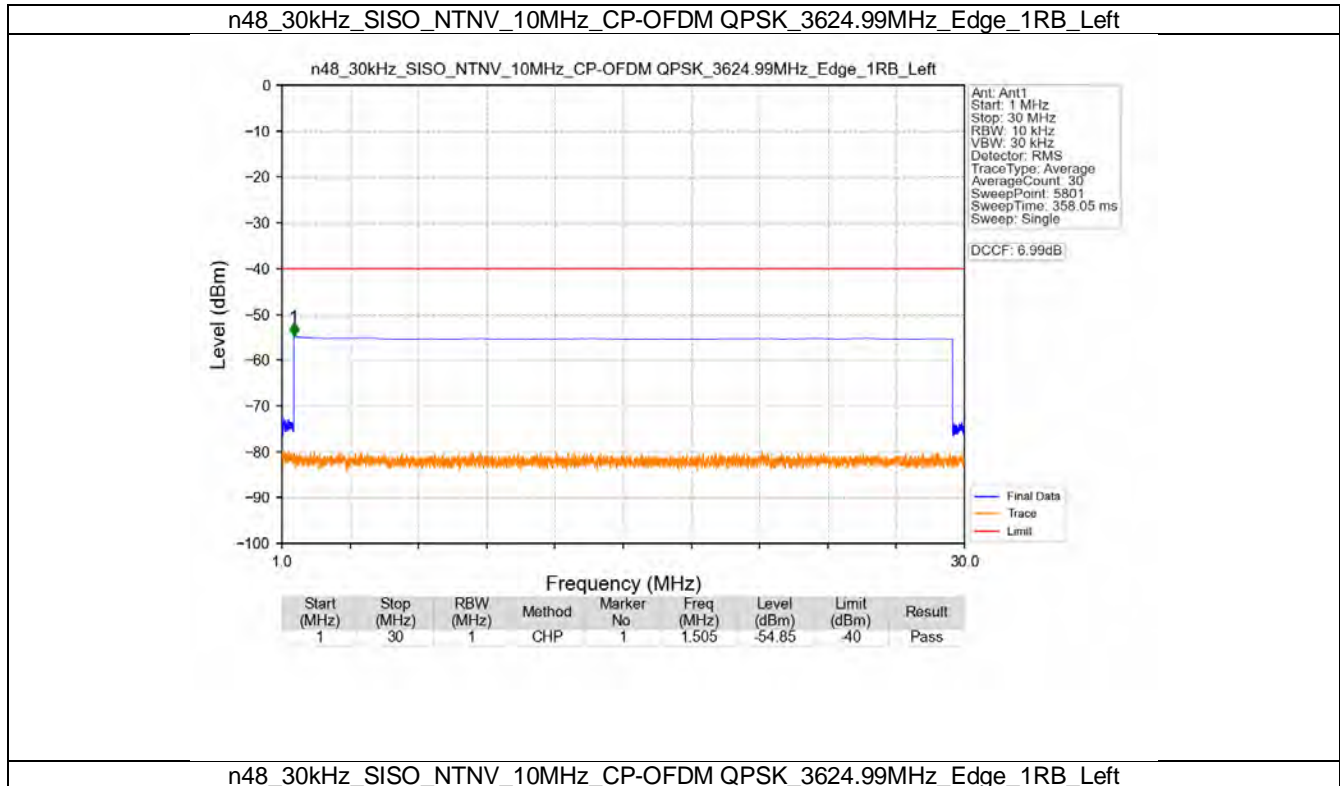


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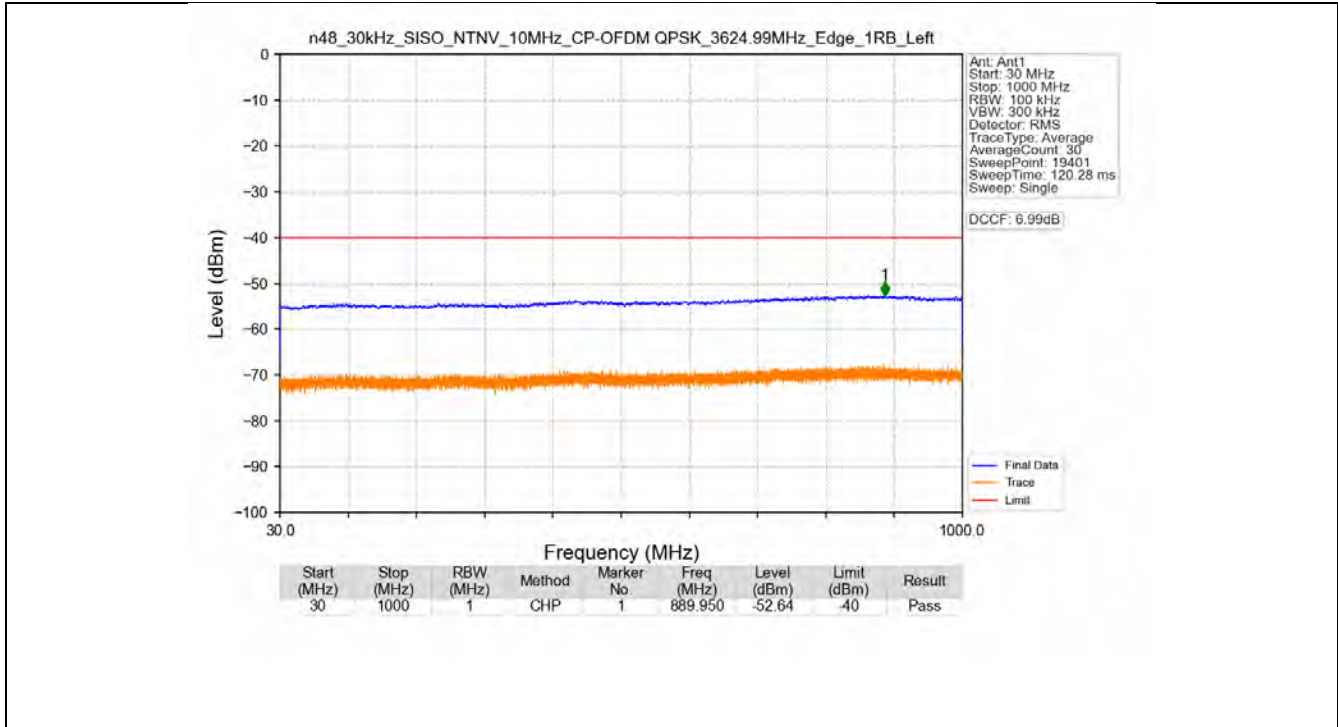


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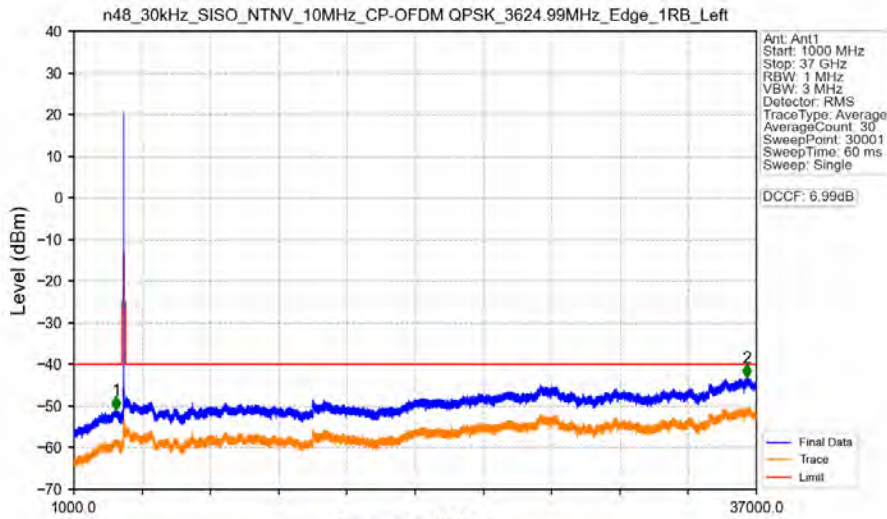
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n48_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_3624.99MHz_Edge_1RB_Left



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	3618.99	1	/	1	3222.400	-51.01	-40	Pass
3618.99	3634.99	1	/	/	/	/	/	/
3634.99	37000	1	/	2	36496.000	-43.31	-40	Pass

n48_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_3694.98MHz_Edge_1RB_Right



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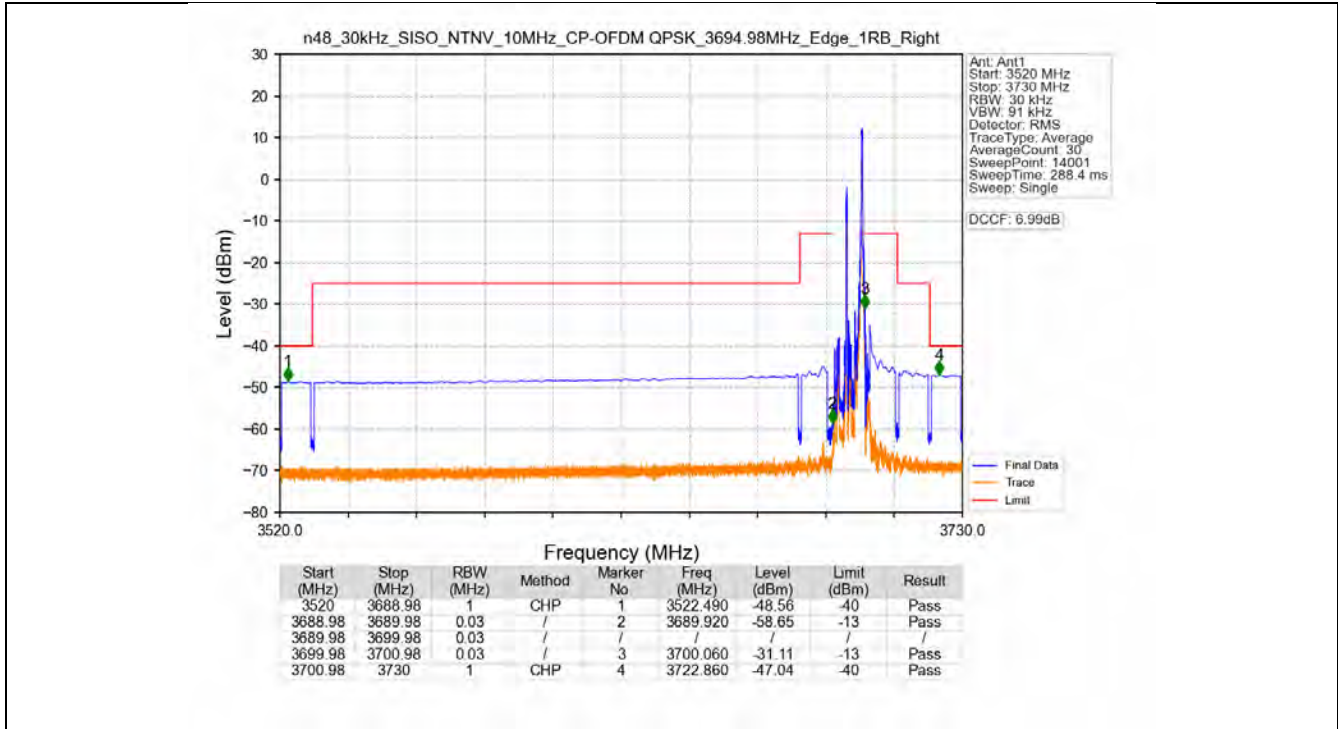


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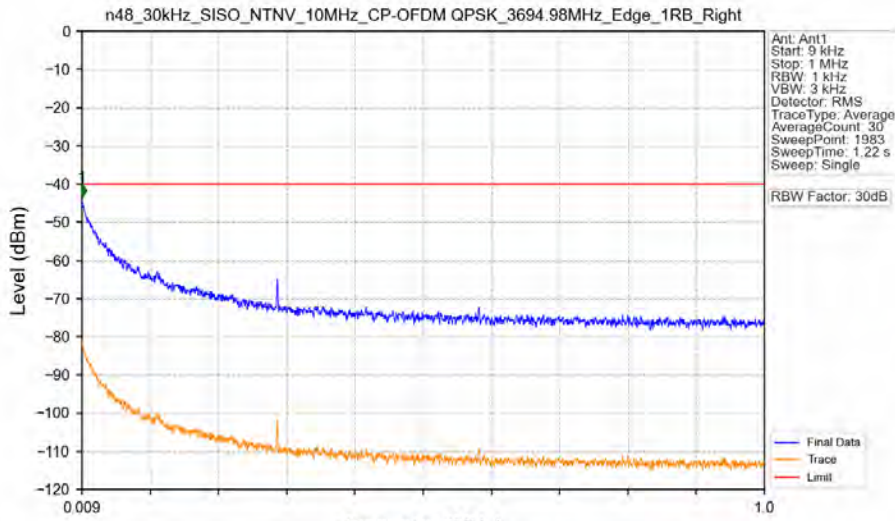
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n48_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_3694.98MHz_Edge_1RB_Right



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
0.009	1	1	/	1	0.009	-43.61	-40	Pass

n48_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_3694.98MHz_Edge_1RB_Right



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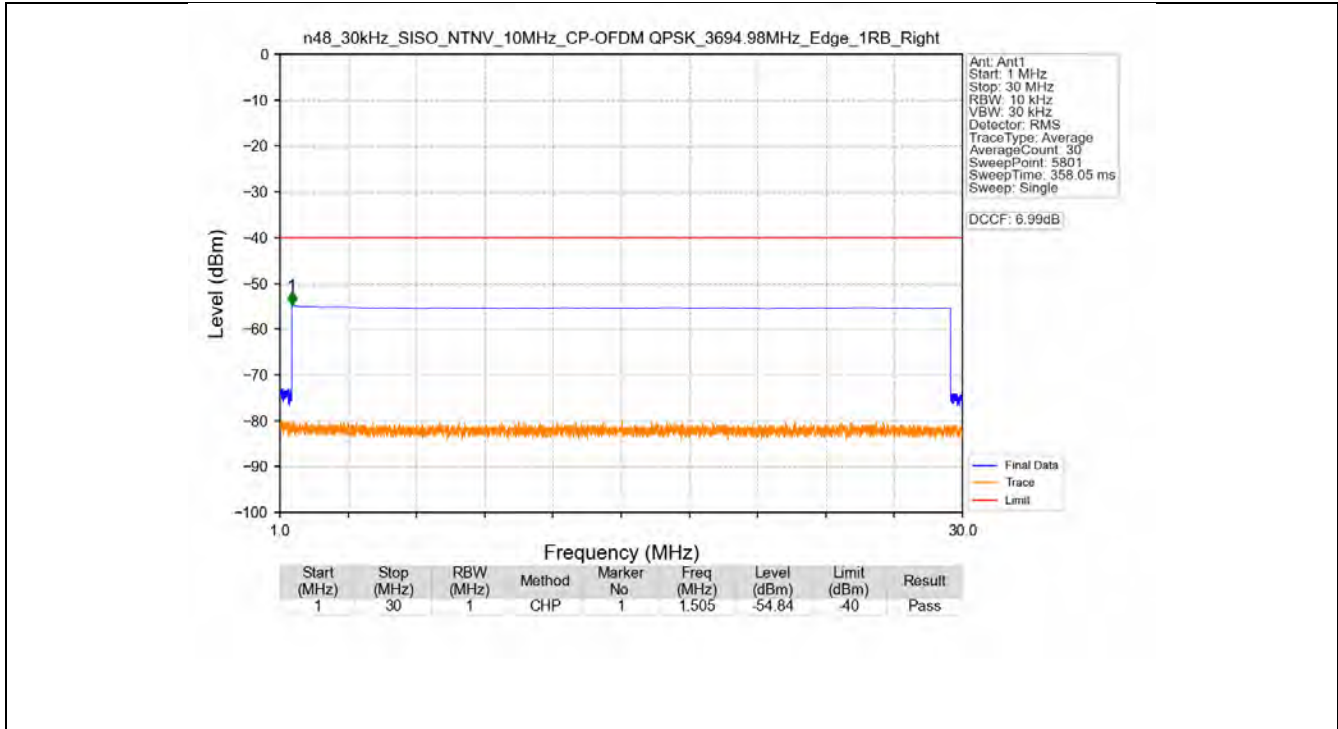


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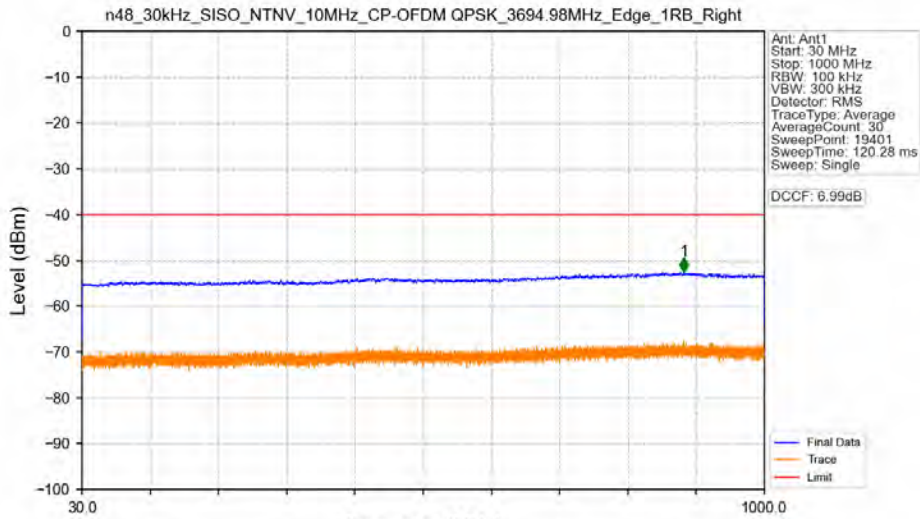
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n48_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_3694.98MHz_Edge_1RB_Right



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	1000	1	CHP	1	885.500	-52.50	-40	Pass

n48_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_3694.98MHz_Edge_1RB_Right



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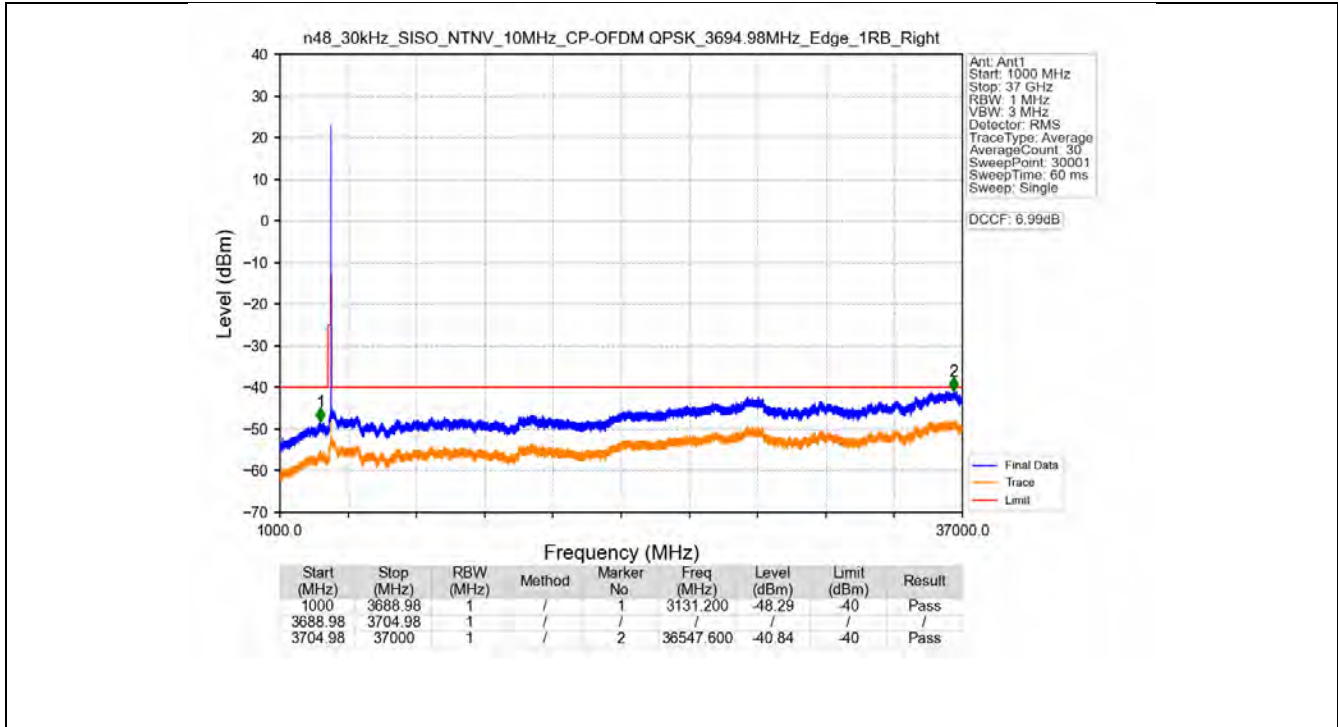


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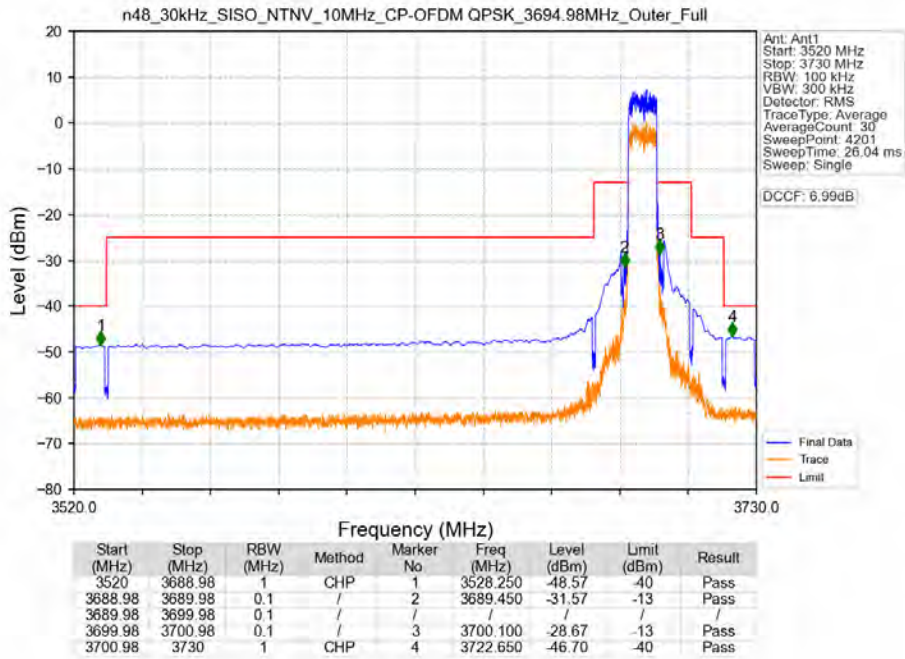
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n48_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_3694.98MHz_Outer_Full



n48_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_3694.98MHz_Inner_1RB_Right



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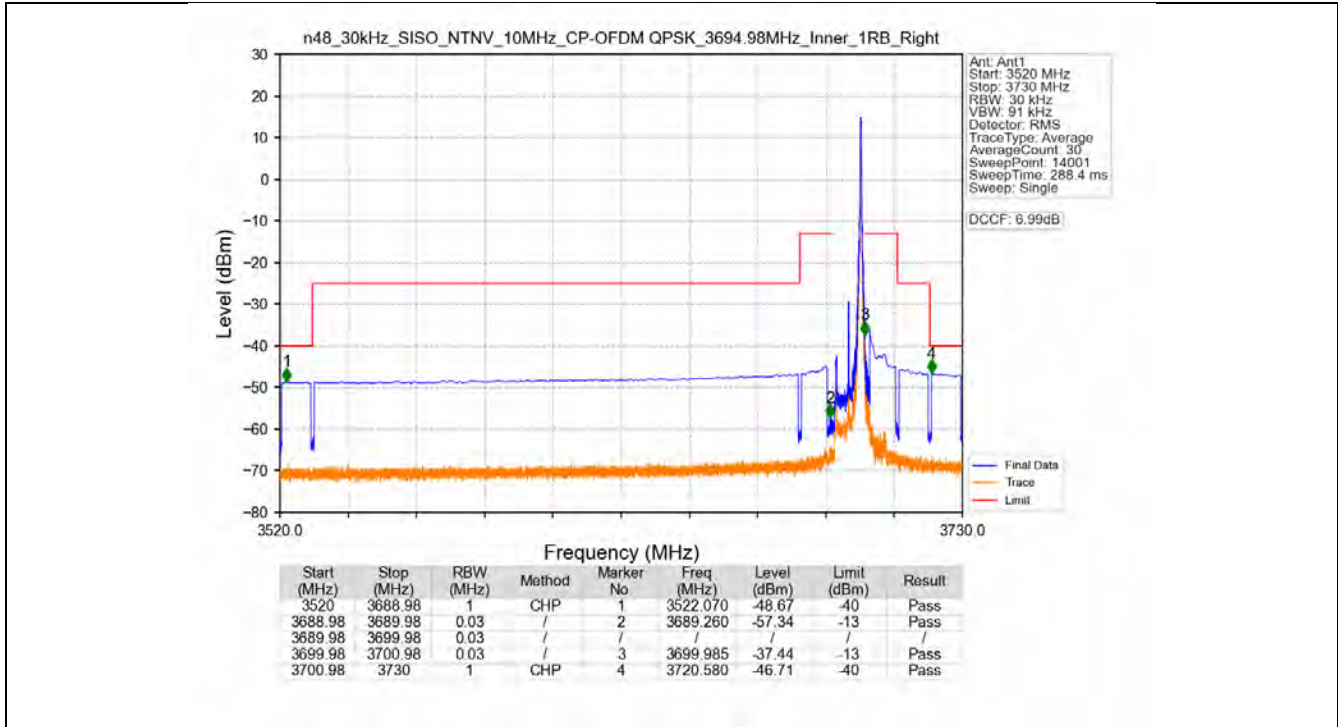


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5.2 30k_SISO_20MHz_NTNV

5.2.1 Test Result

5G NR n48 SCS=30kHz SISO 20MHz NNTV						
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission			Verdict
			Ant1	Ant4	Sum	
DFT-s-OFDM PI/2 BPSK	3560.01	Edge_1RB_Left	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
		Inner_1RB_Left	Refer To Test Graph			Pass
	3624.99	Edge_1RB_Left	Refer To Test Graph			Pass
		Edge_1RB_Right	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
DFT-s-OFDM QPSK	3560.01	Inner_1RB_Right	Refer To Test Graph			Pass
		Edge_1RB_Left	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
	3624.99	Inner_1RB_Left	Refer To Test Graph			Pass
		Edge_1RB_Left	Refer To Test Graph			Pass
		Edge_1RB_Right	Refer To Test Graph			Pass
CP-OFDM QPSK	3690	Outer_Full	Refer To Test Graph			Pass
		Inner_1RB_Right	Refer To Test Graph			Pass
		Edge_1RB_Right	Refer To Test Graph			Pass
	3560.01	Edge_1RB_Left	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
		Inner_1RB_Left	Refer To Test Graph			Pass
3624.99	Edge_1RB_Left	Refer To Test Graph			Pass	
	Edge_1RB_Right	Refer To Test Graph			Pass	
	Outer_Full	Refer To Test Graph			Pass	



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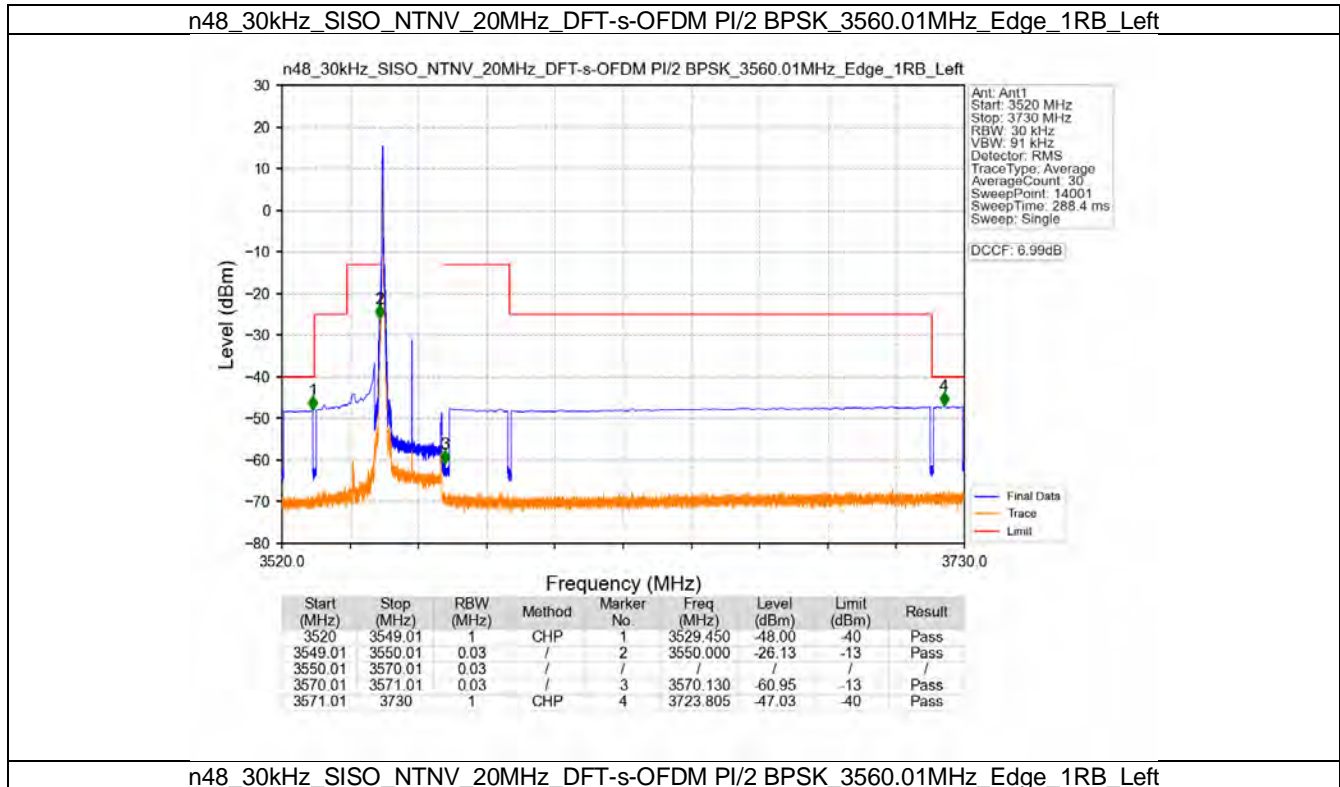
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5.2.2 Test Graph



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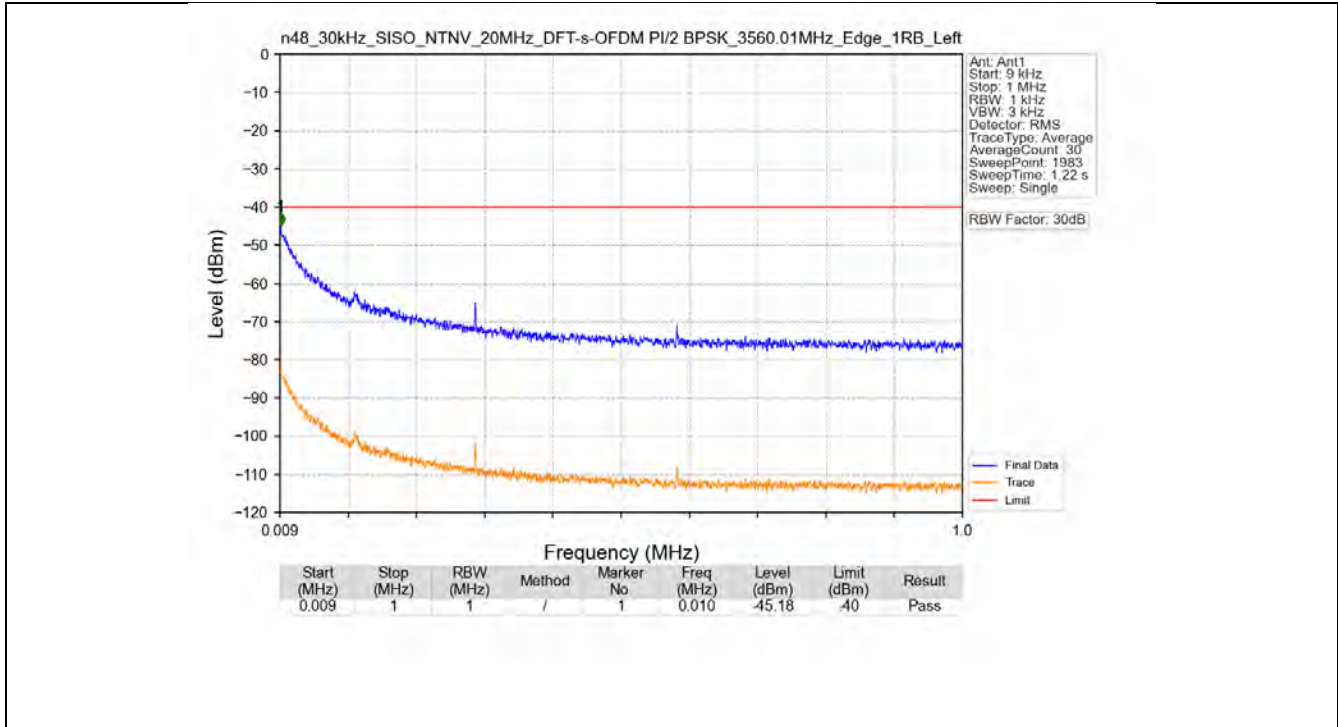


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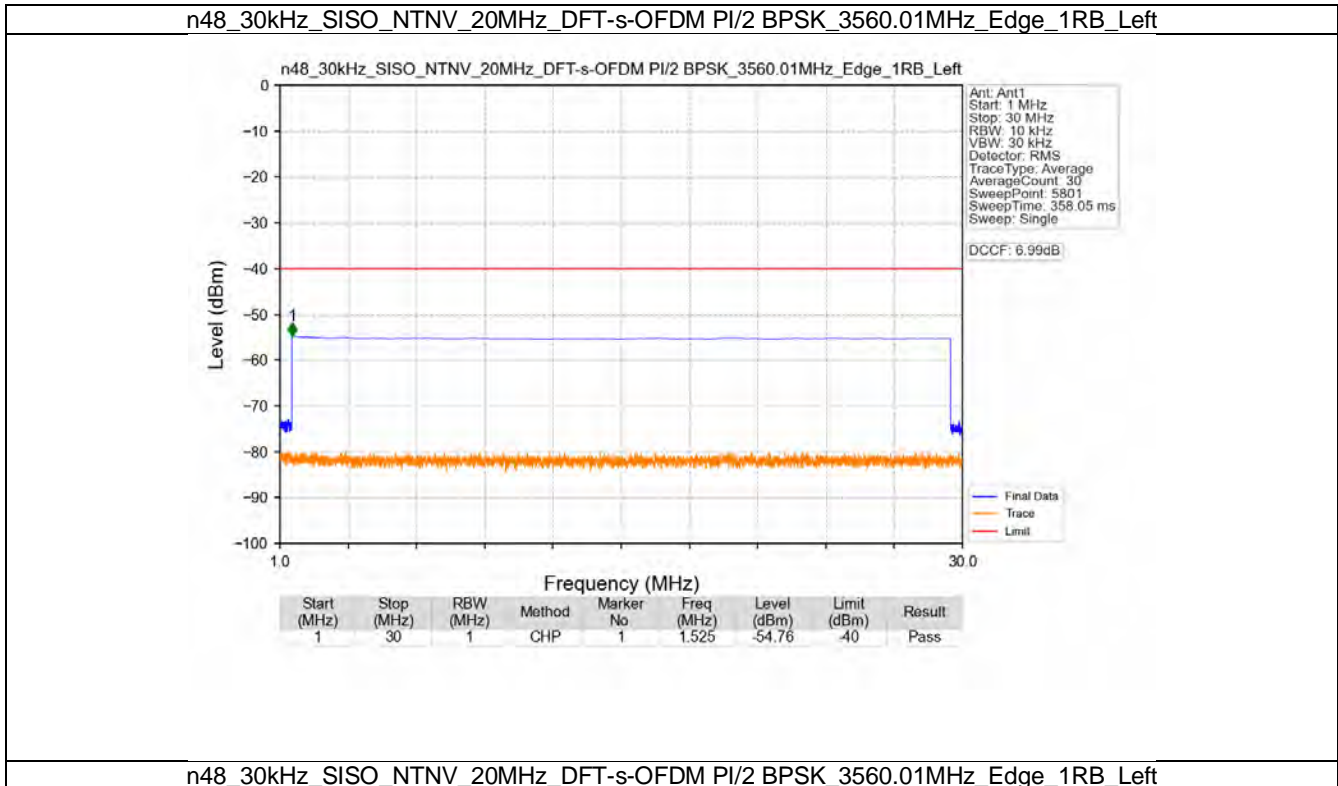


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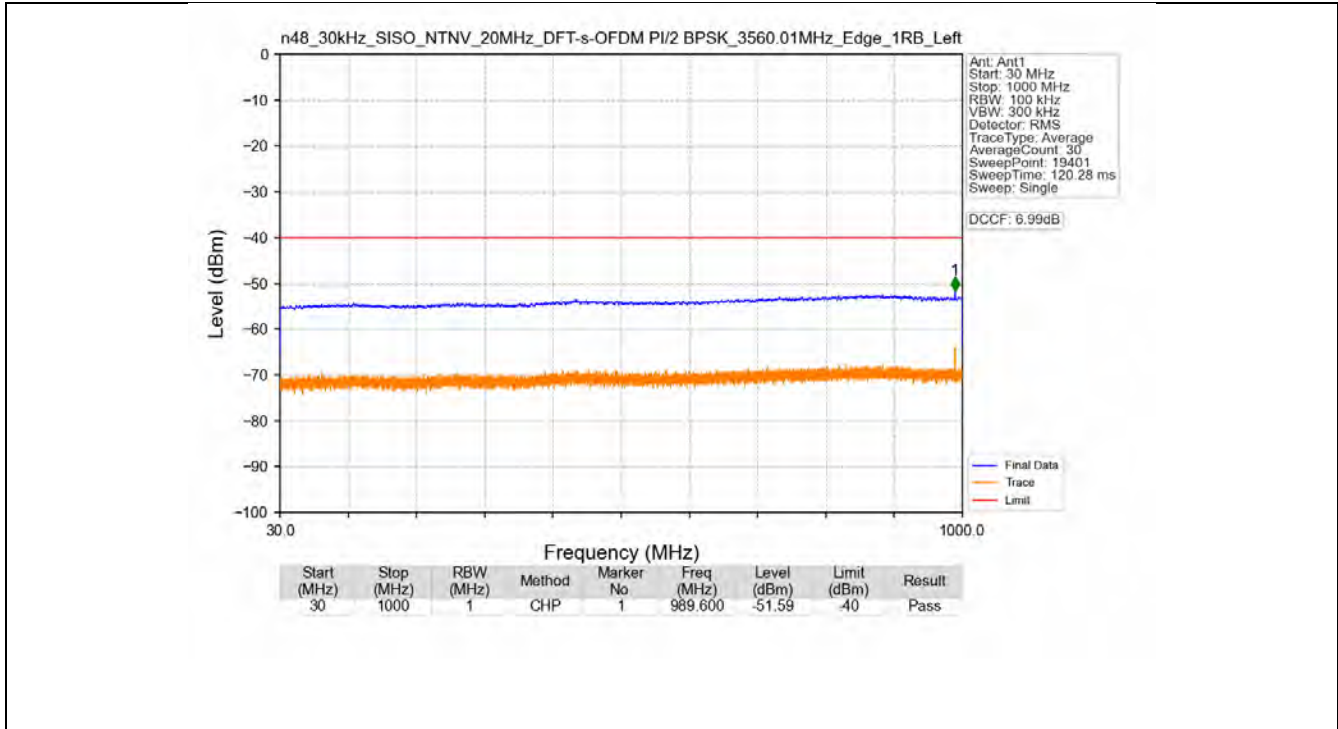


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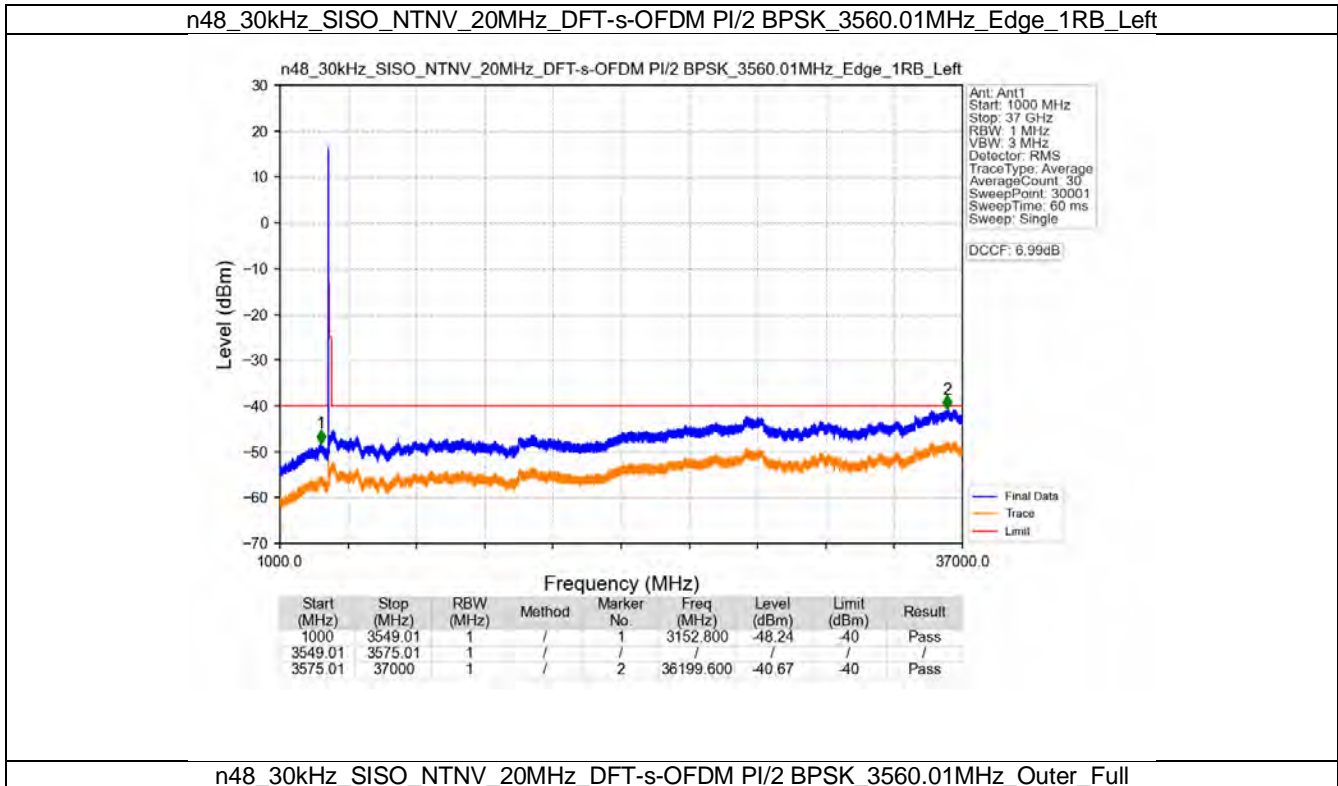


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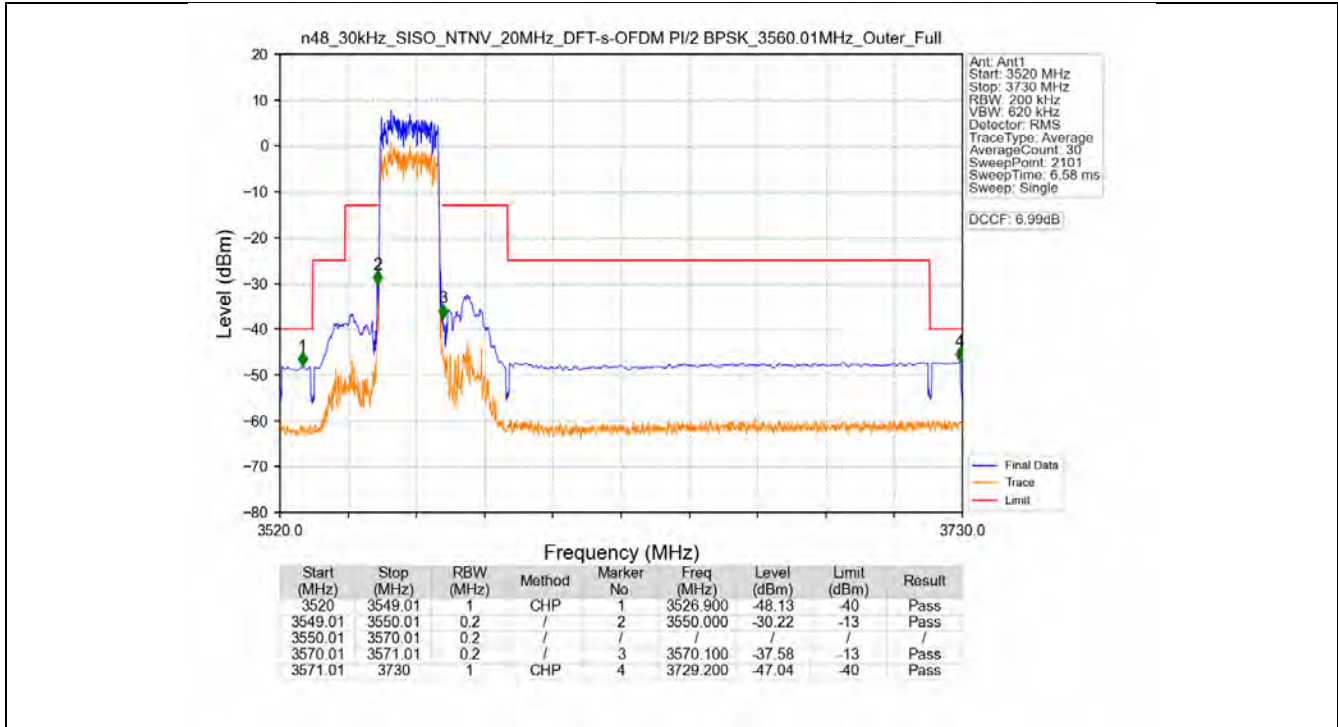


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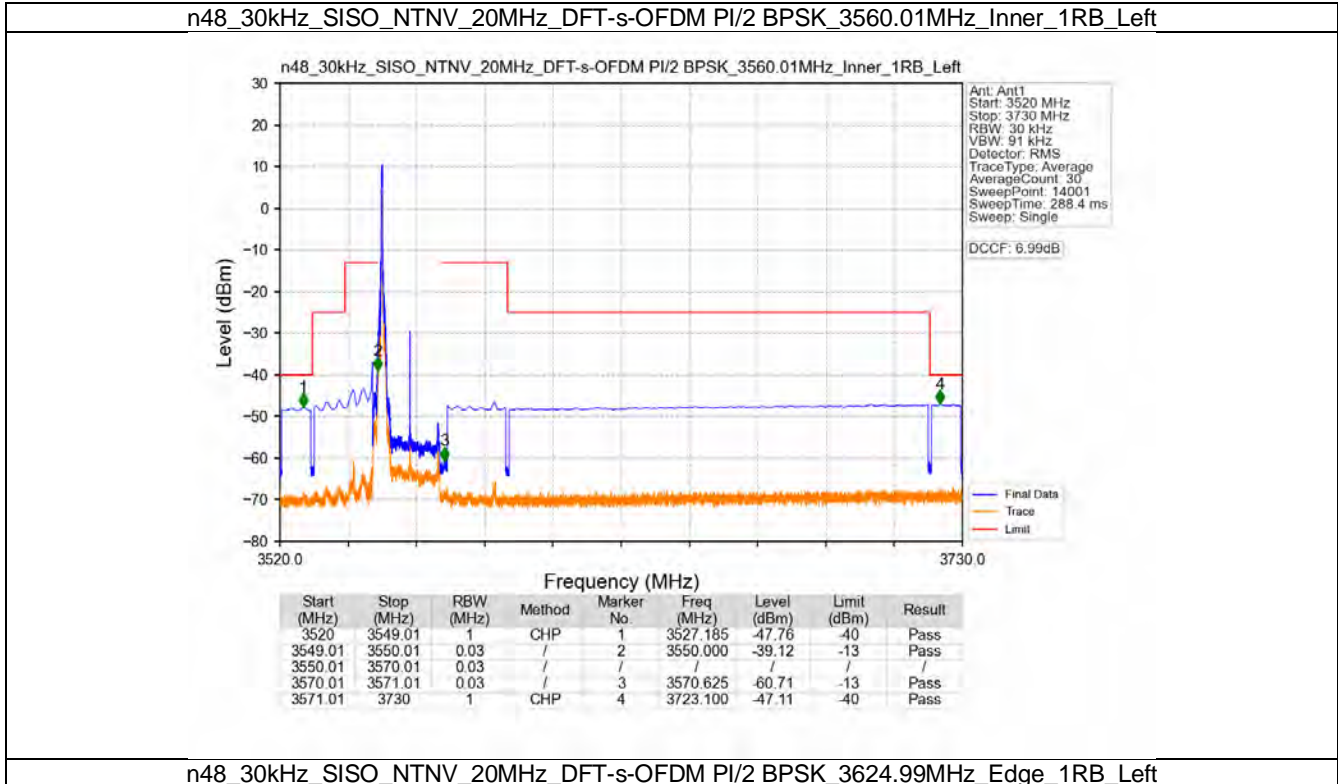


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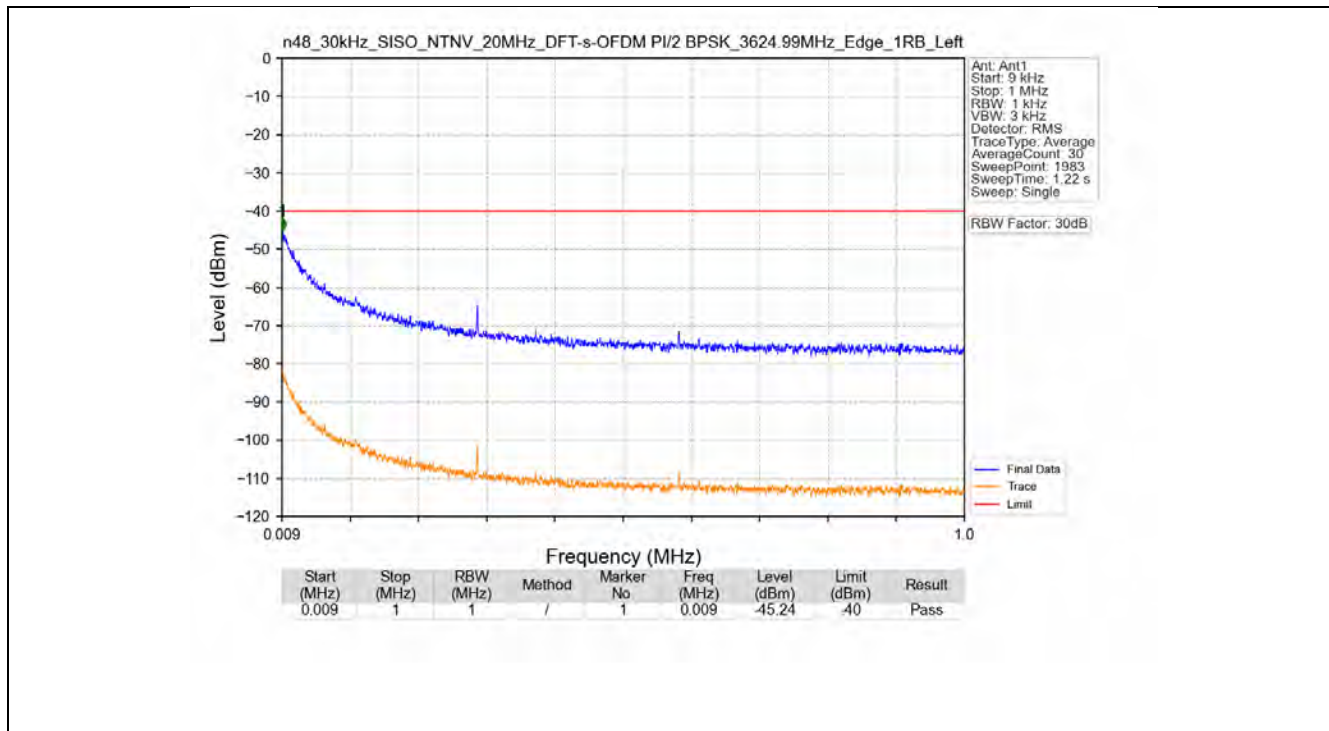
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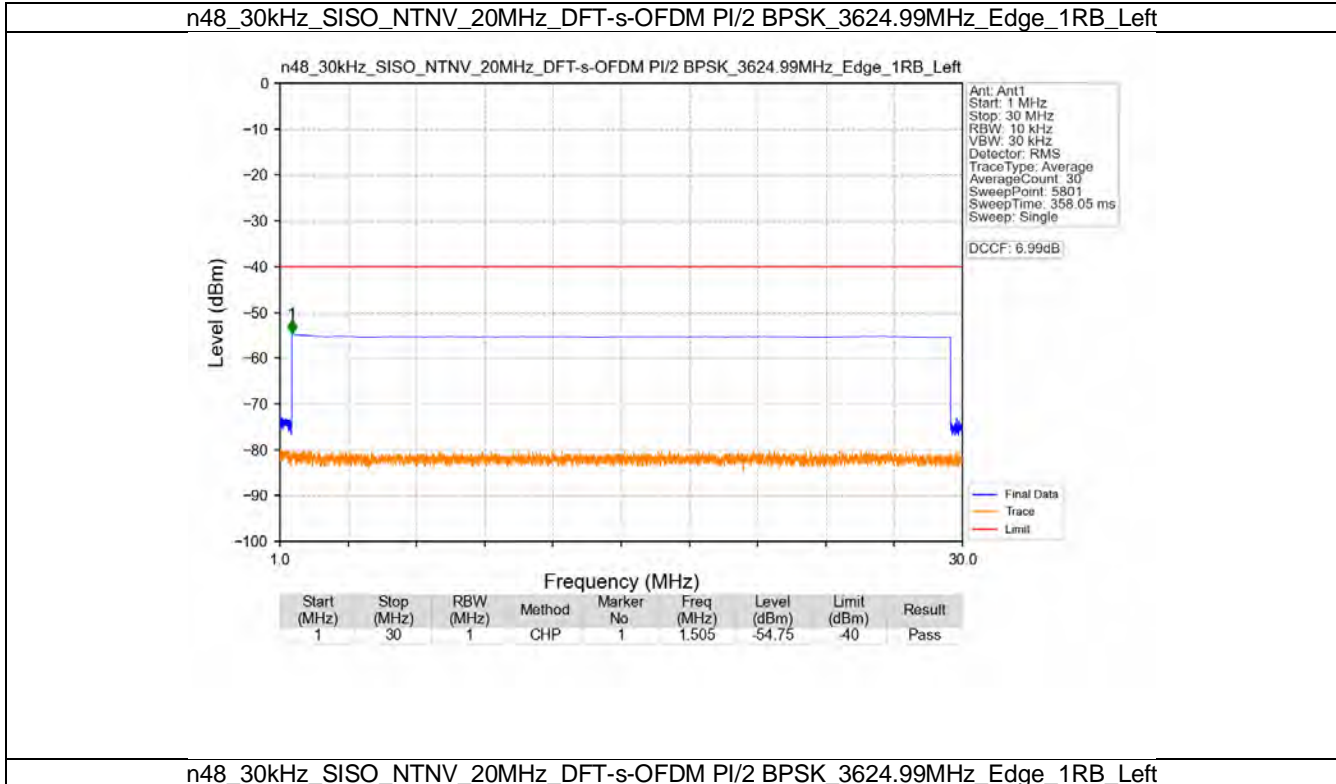


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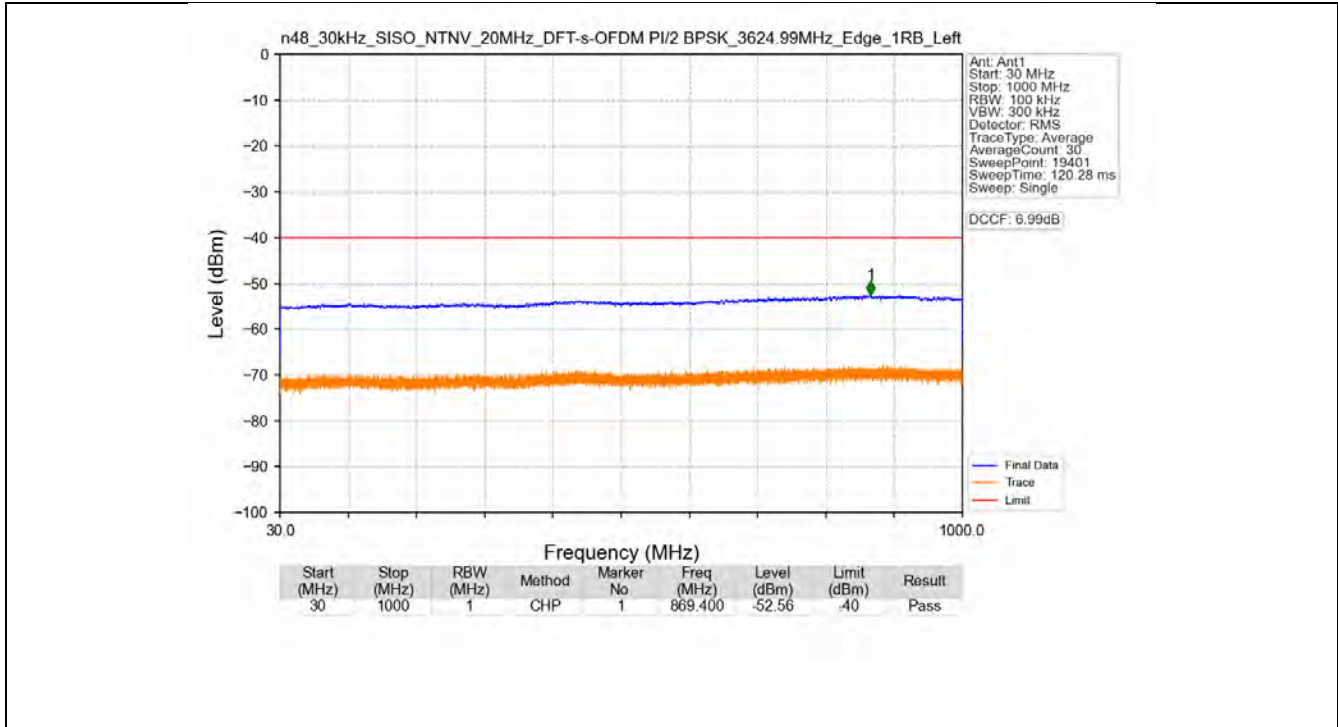


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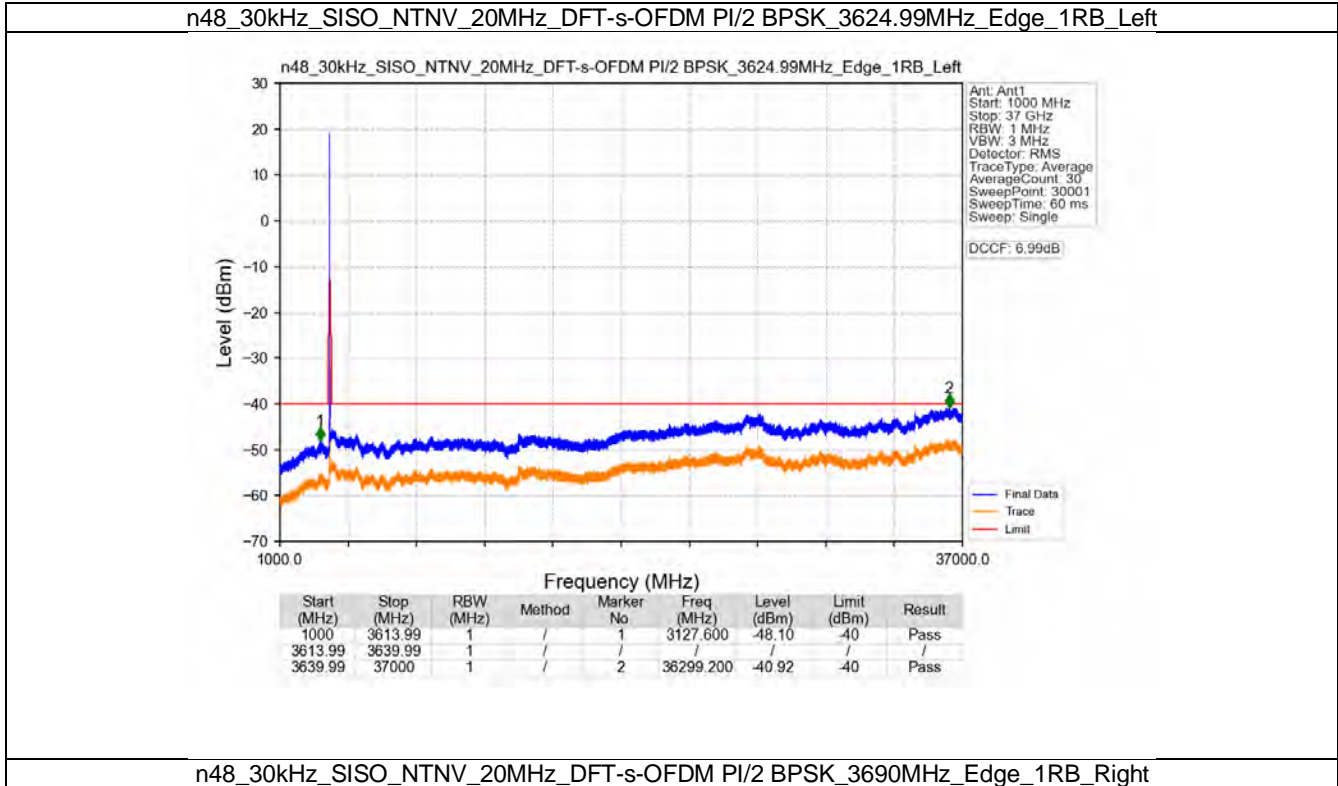


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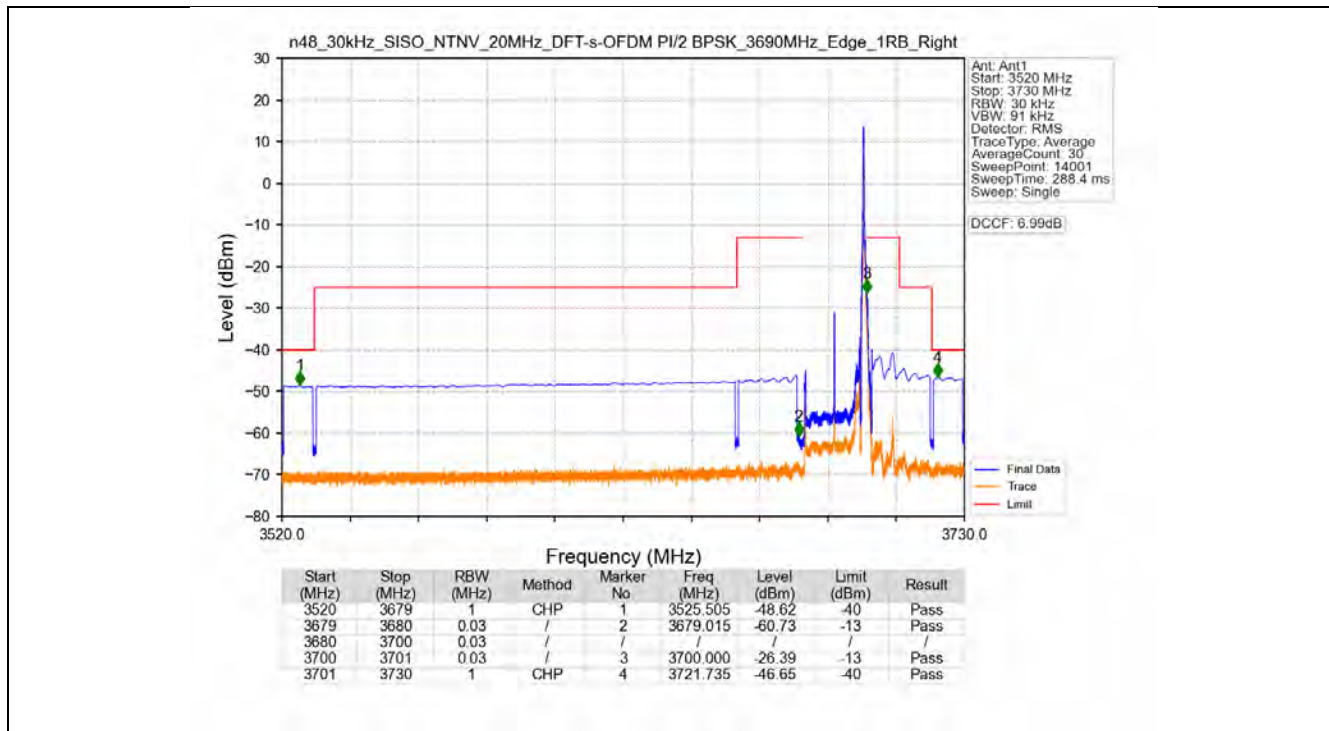
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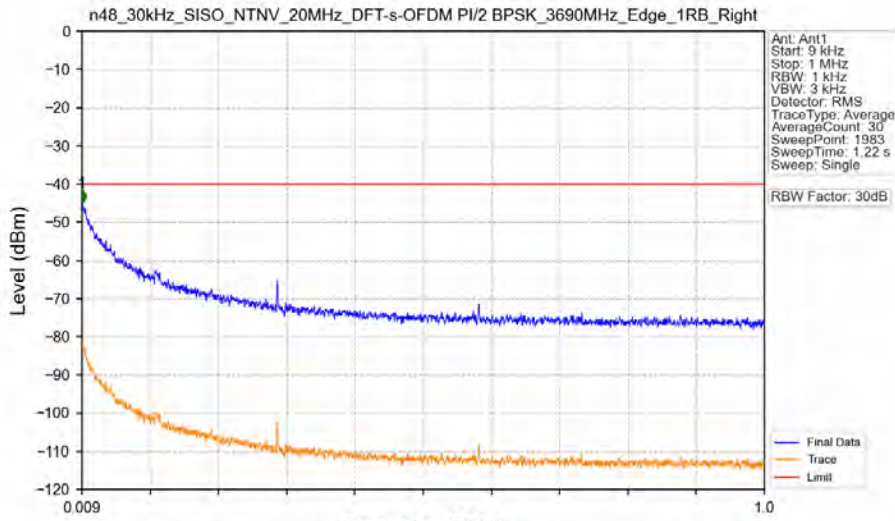
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n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_3690MHz_Edge_1RB_Right



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
0.009	1	1	/	1	0.009	-45.07	-40	Pass

n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_3690MHz_Edge_1RB_Right



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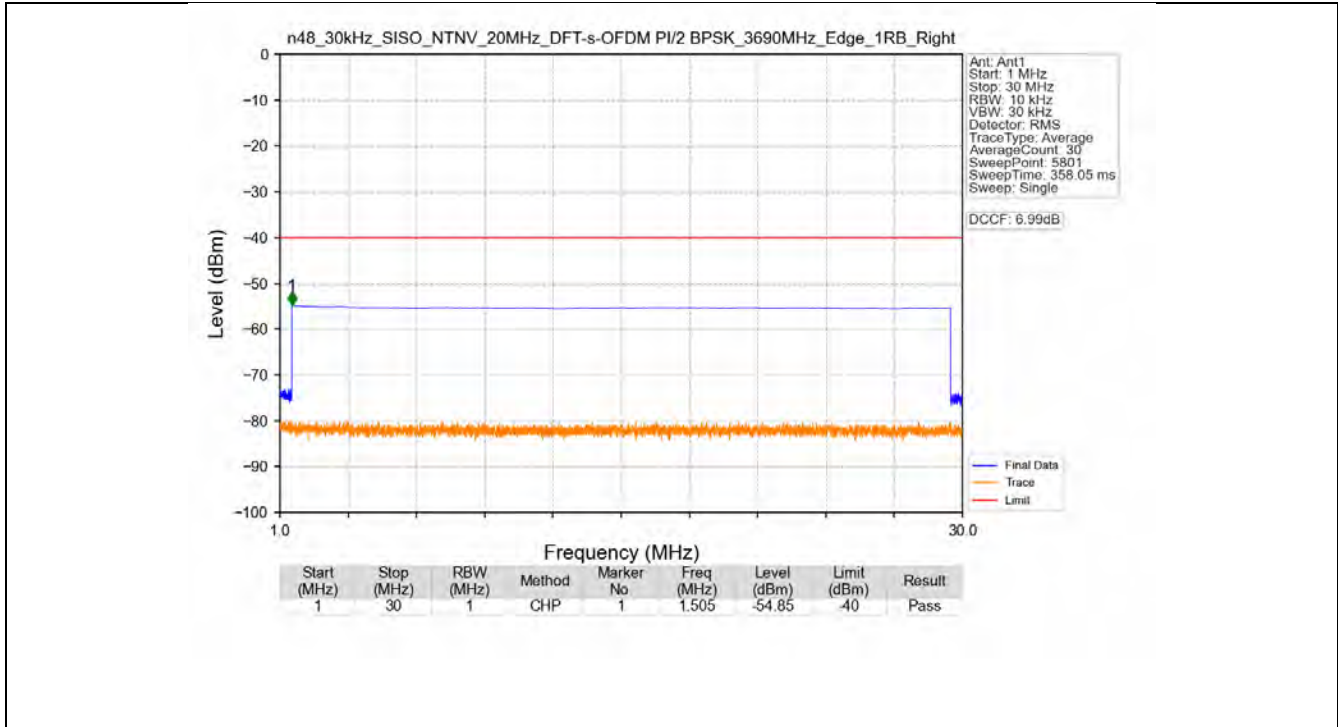


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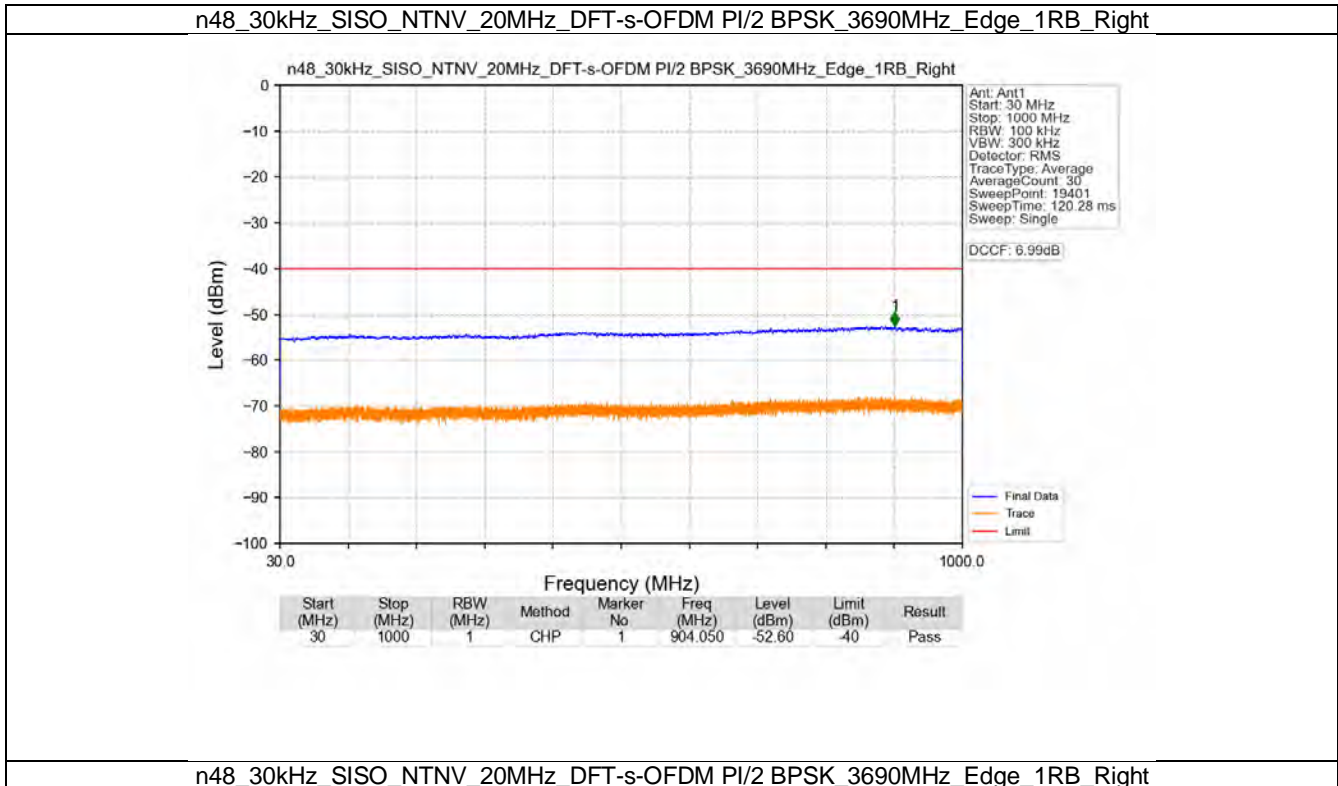


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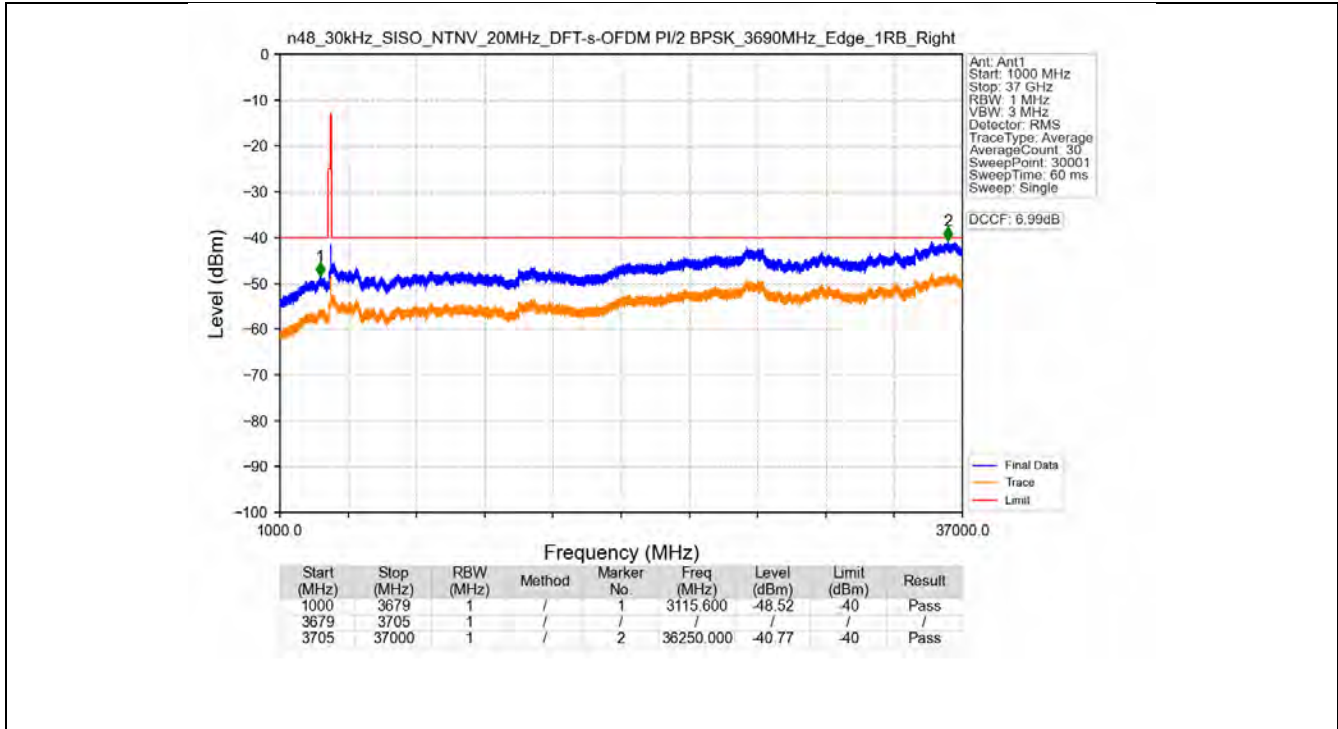


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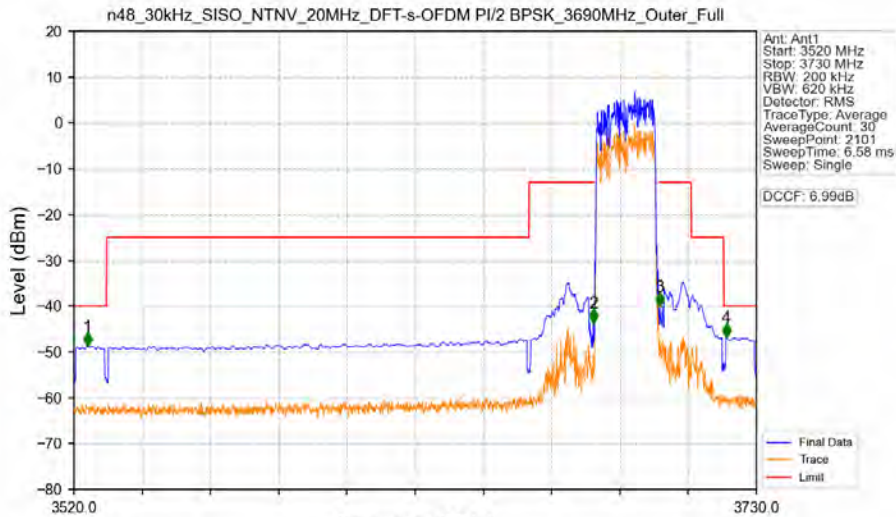
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n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_3690MHz_Outer_Full



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3520	3679	1	CHP	1	3524.100	-48.79	-40	Pass
3679	3680	0.2	/	2	3679.800	-43.62	-13	Pass
3680	3700	0.2	/	/	/	/	/	/
3700	3701	0.2	/	3	3700.300	-40.10	-13	Pass
3701	3730	1	CHP	4	3720.700	-46.87	-40	Pass

n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_3690MHz_Inner_1RB_Right



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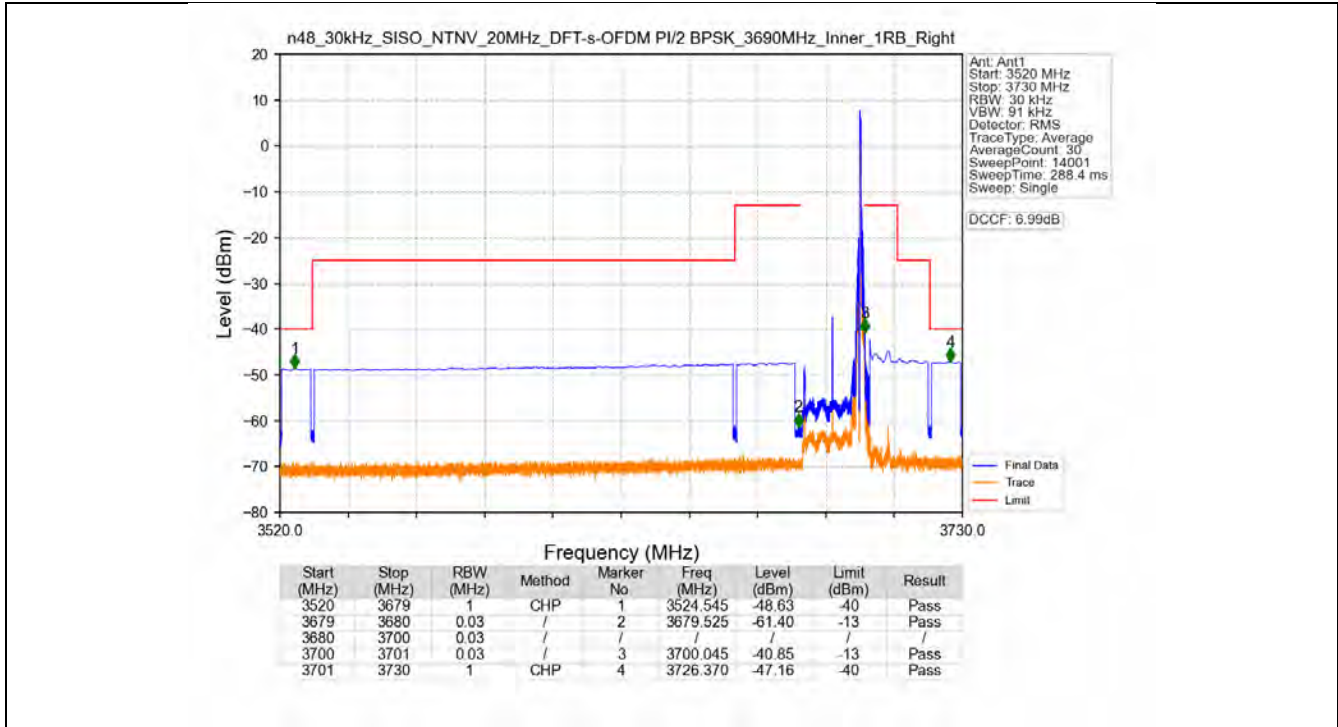


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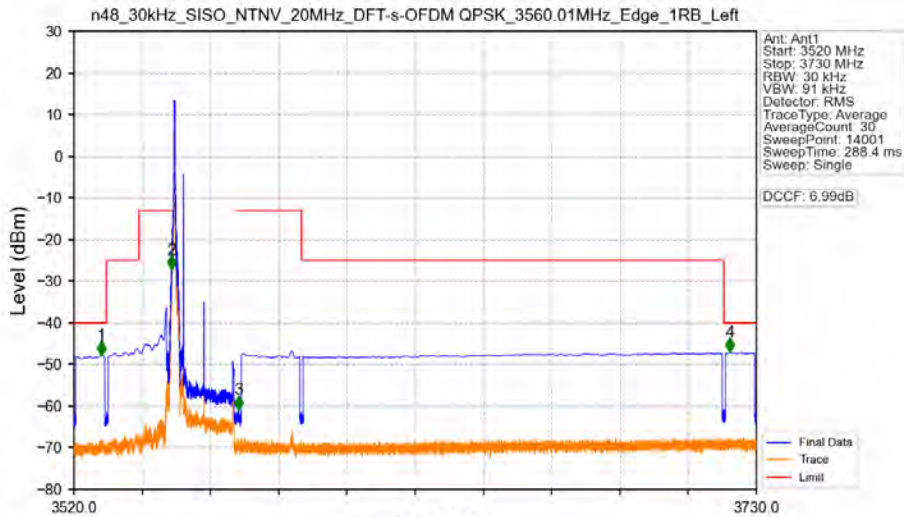
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n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_QPSK_3560.01MHz_Edge_1RB_Left



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3520	3549.01	1	CHP	1	3528.400	-47.81	-40	Pass
3549.01	3550.01	0.03	/	2	3550.000	-27.29	-13	Pass
3550.01	3570.01	0.03	/	/	/	/	/	/
3570.01	3571.01	0.03	/	3	3570.640	-60.92	-13	Pass
3571.01	3730	1	CHP	4	3721.825	-47.10	-40	Pass

n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_QPSK_3560.01MHz_Edge_1RB_Left



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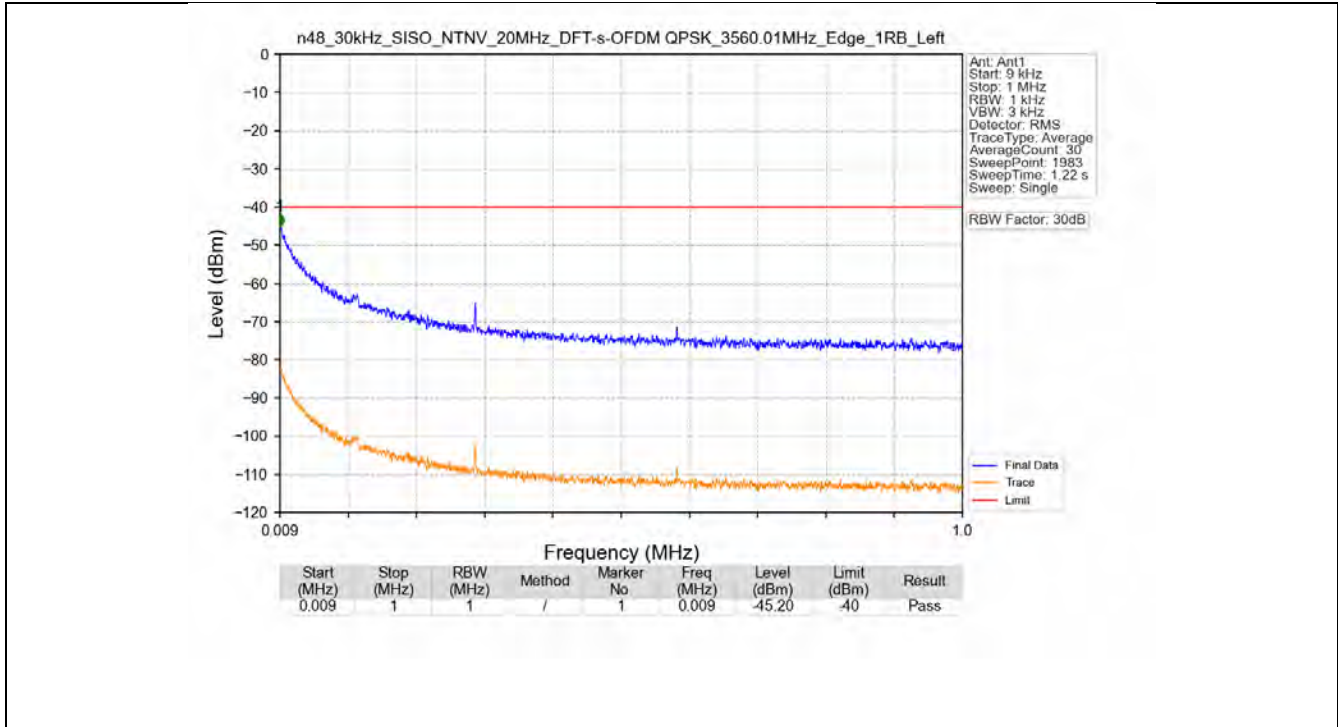


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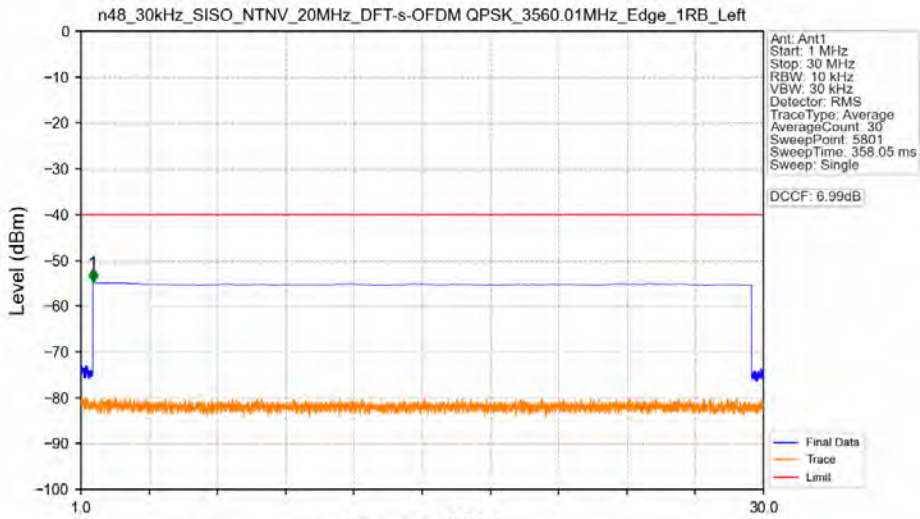
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n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_QPSK_3560.01MHz_Edge_1RB_Left



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1	30	1	CHP	1	1.505	-54.80	-40	Pass

n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_QPSK_3560.01MHz_Edge_1RB_Left



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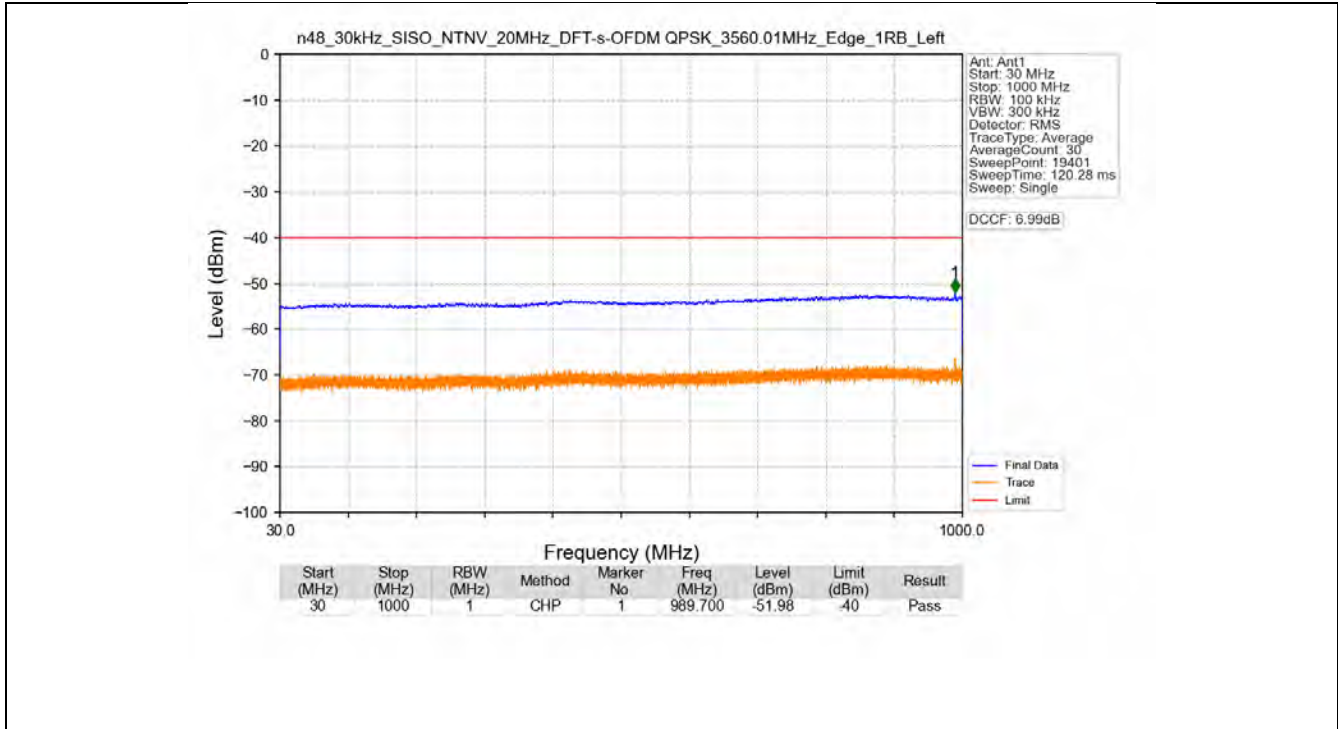


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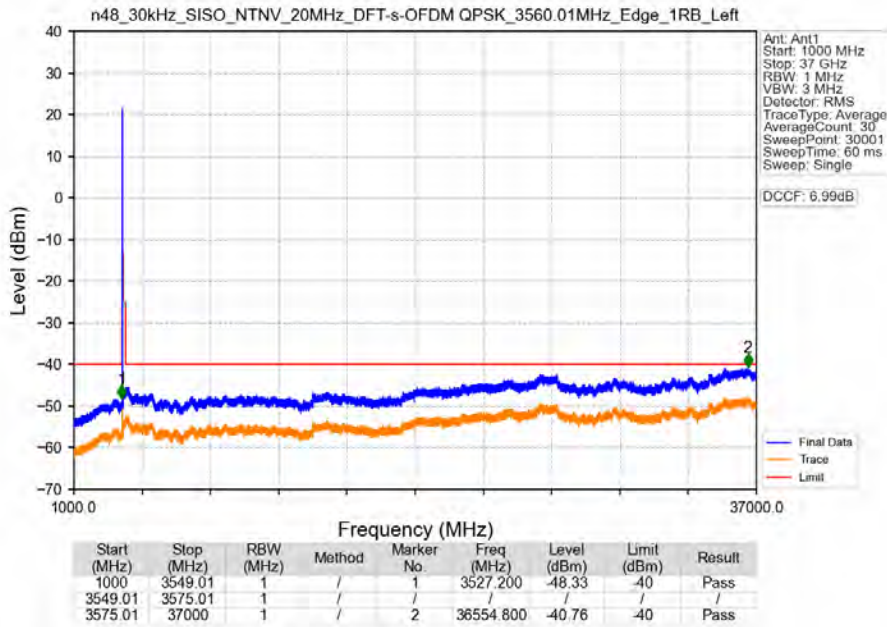
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n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_3560.01MHz_Outer_Full



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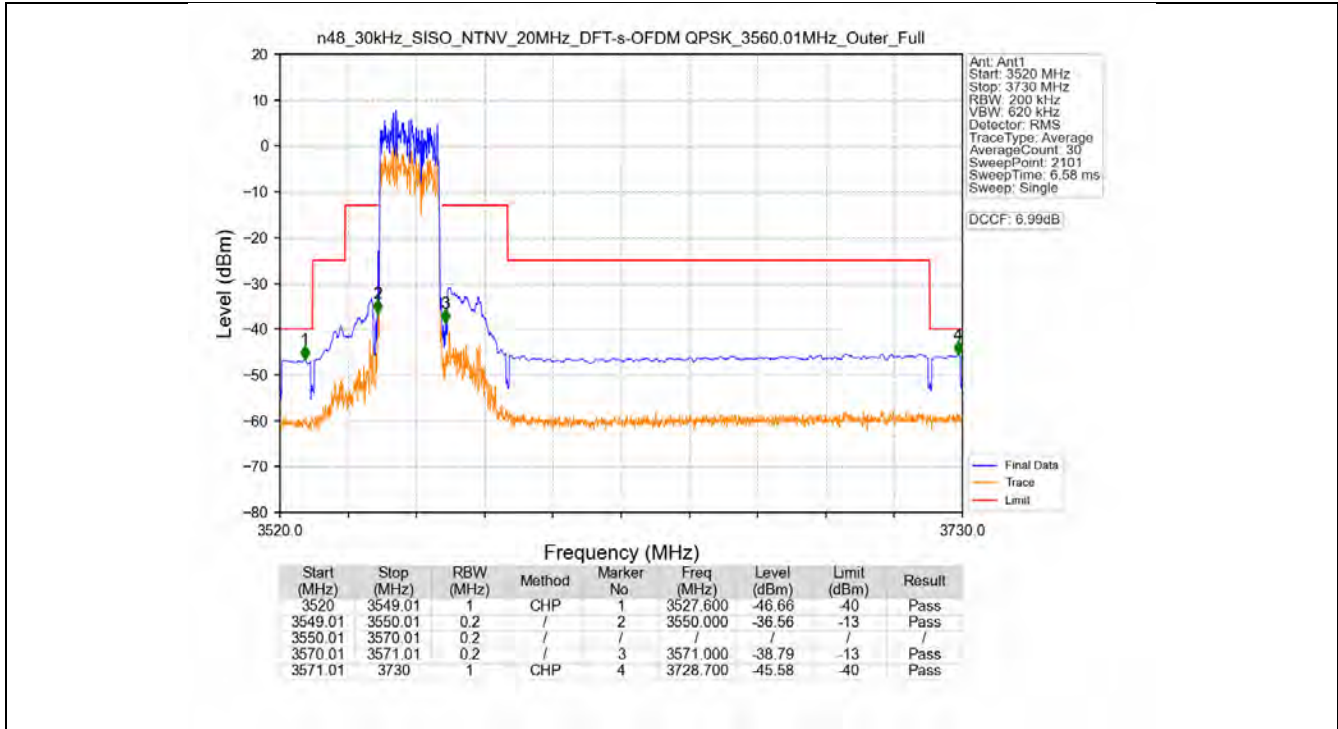


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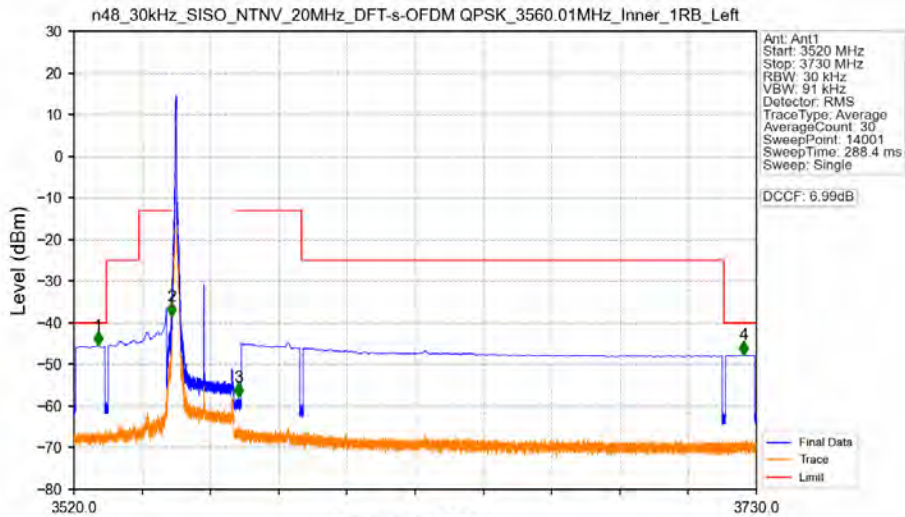
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n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_3560.01MHz_Inner_1RB_Left



n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_3624.99MHz_Edge_1RB_Left



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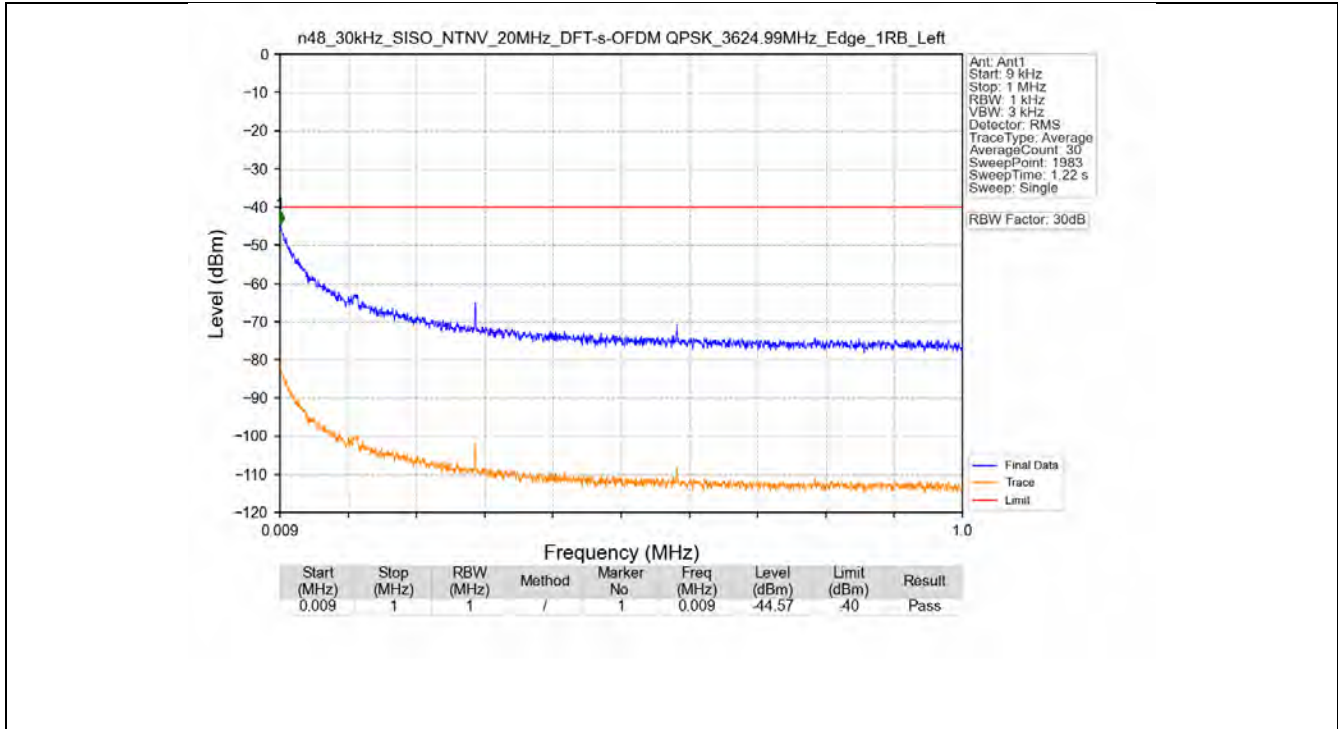


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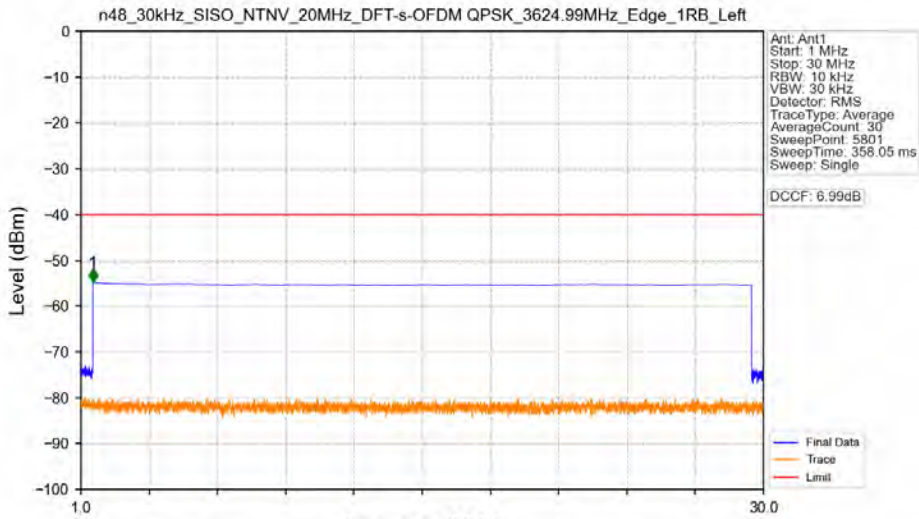
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Shenzhen Branch**

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n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_3624.99MHz_Edge_1RB_Left



n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_3624.99MHz_Edge_1RB_Left



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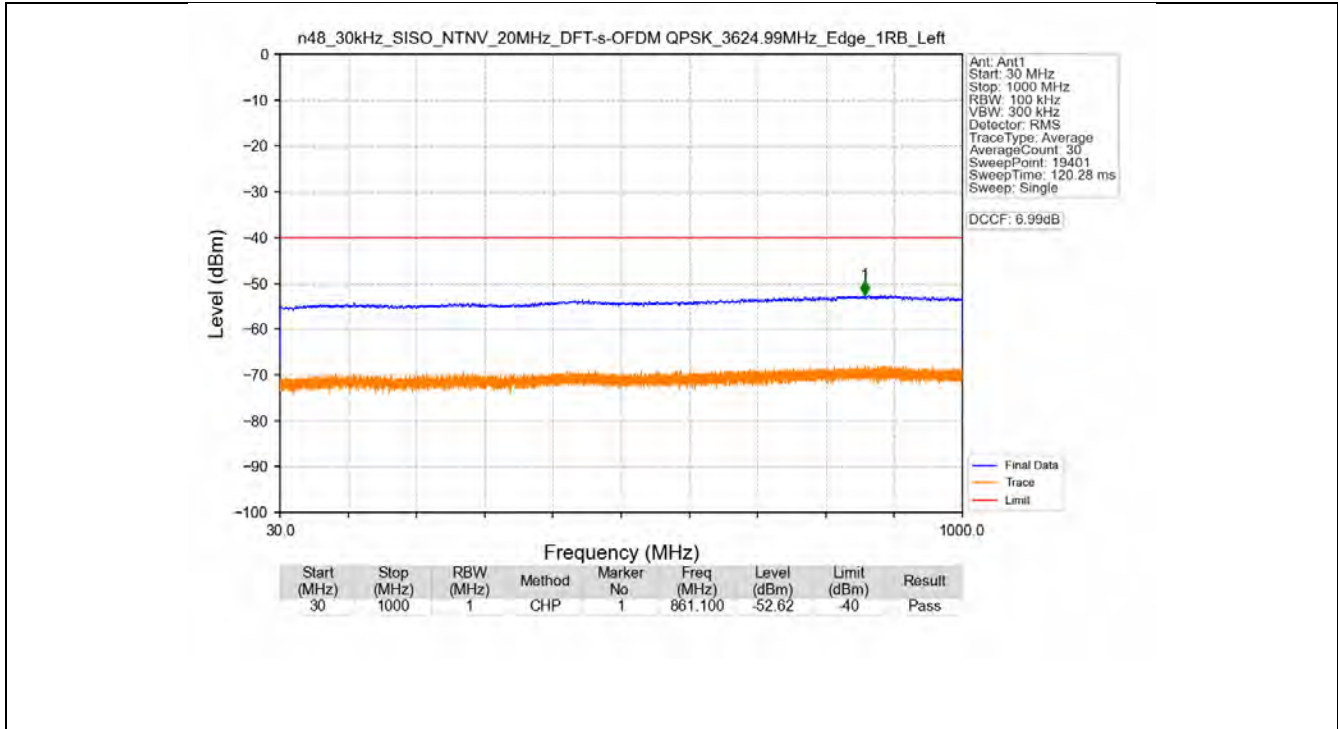


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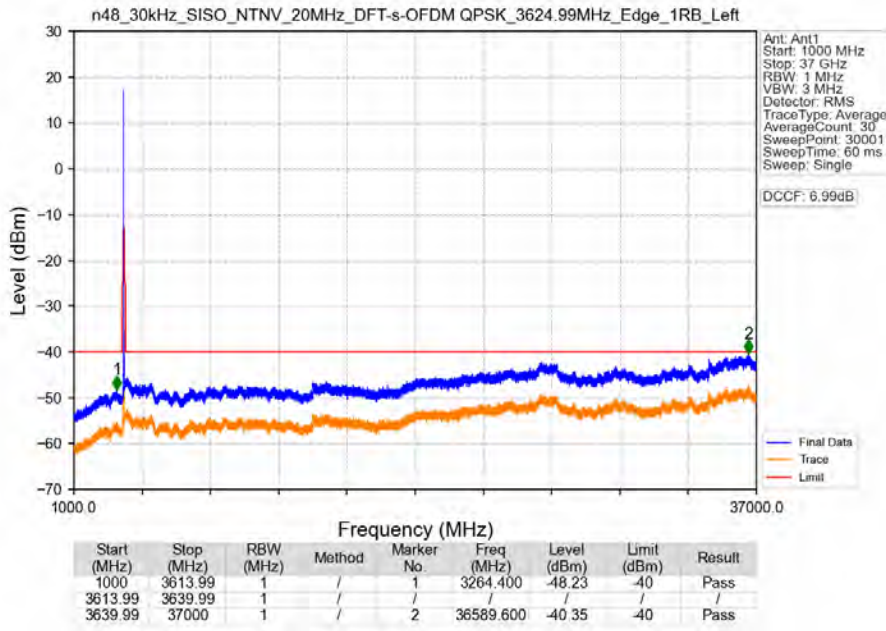
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n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_QPSK_3624.99MHz_Edge_1RB_Left



n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_QPSK_3690MHz_Edge_1RB_Right



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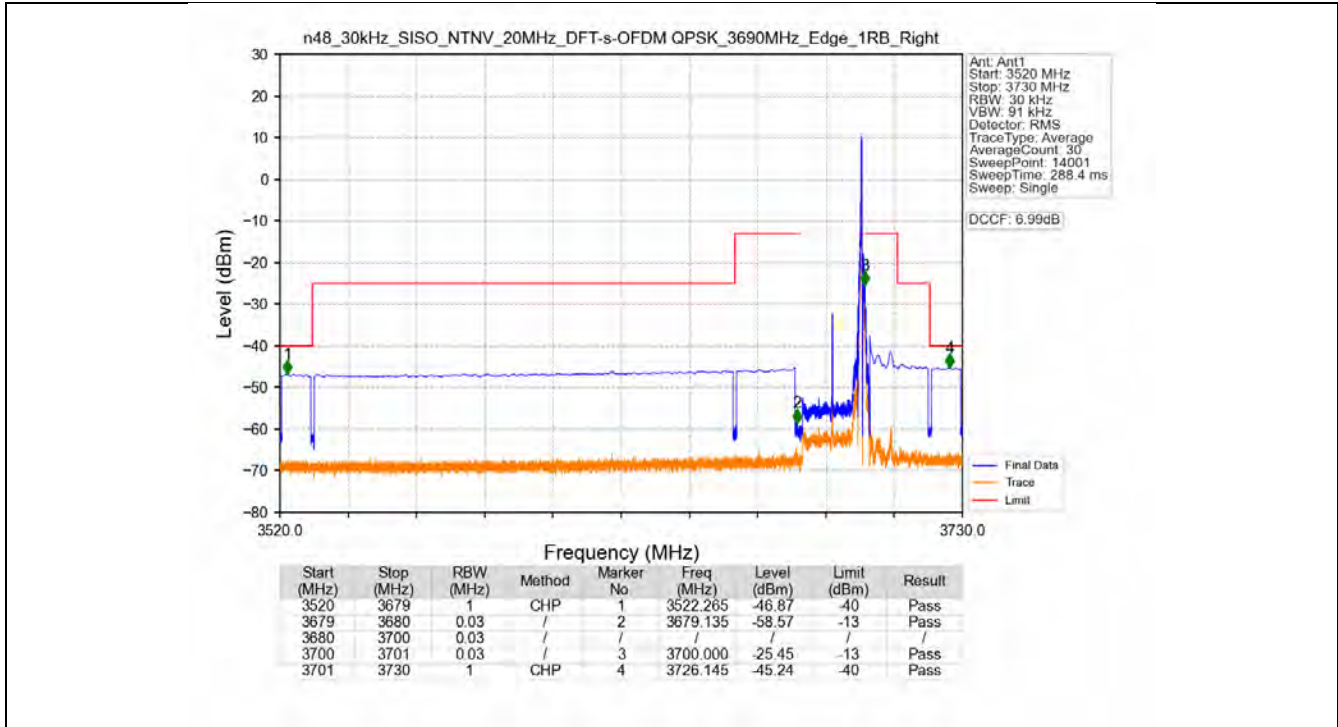


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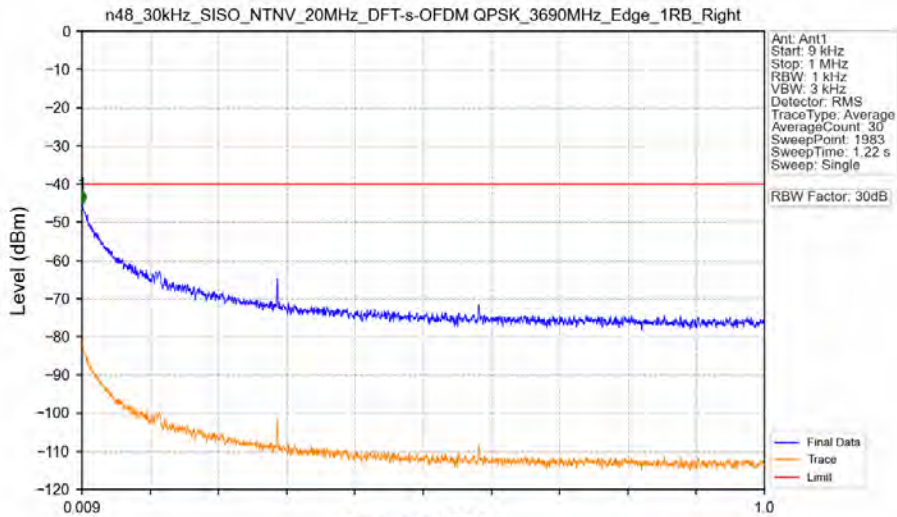
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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
0.009	1	1	/	1	0.009	-45.31	40	Pass

n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_QPSK_3690MHz_Edge_1RB_Right



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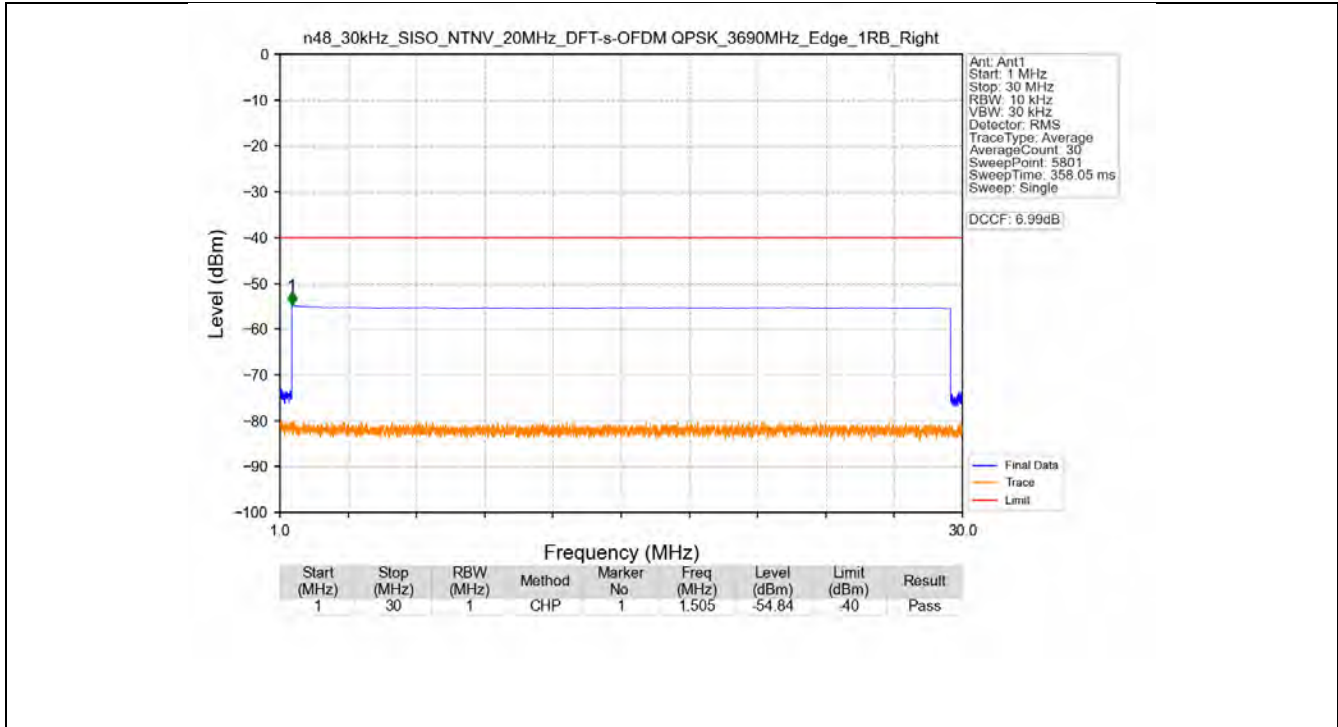


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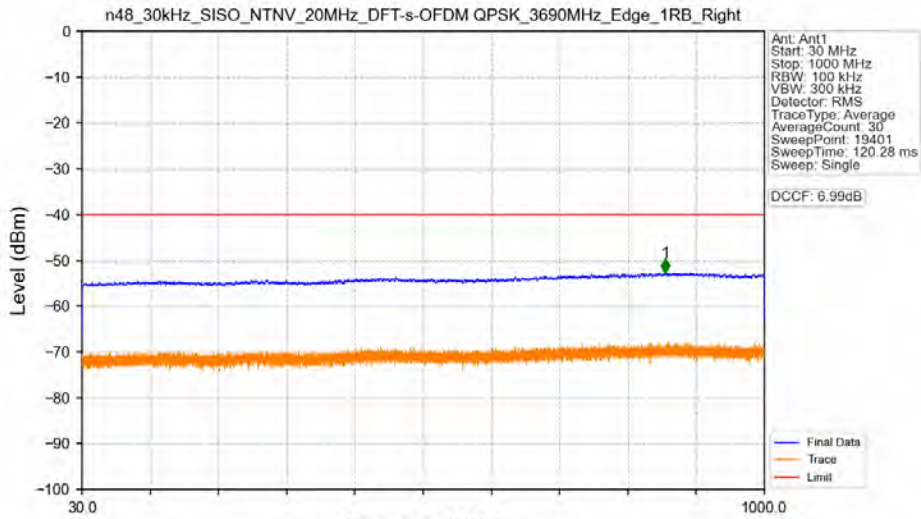
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n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_QPSK_3690MHz_Edge_1RB_Right



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	1000	1	CHP	1	859.400	-52.68	-40	Pass

n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_QPSK_3690MHz_Edge_1RB_Right



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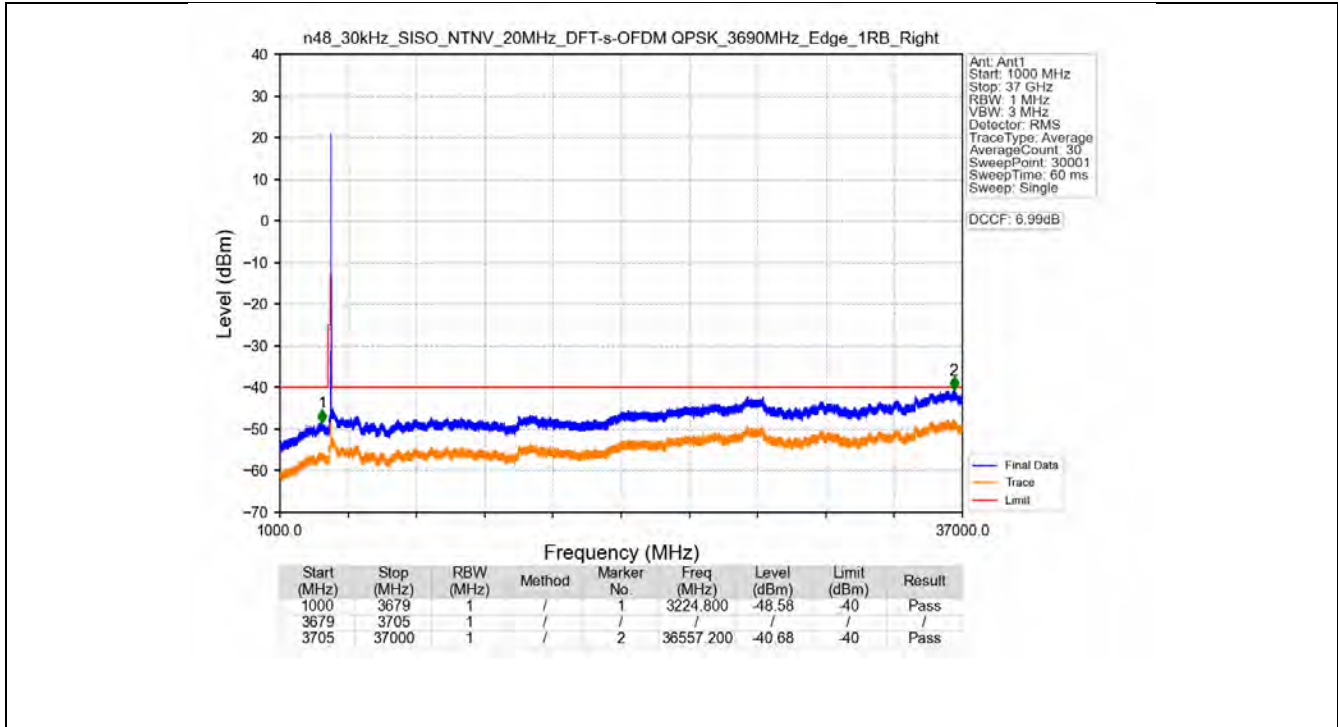


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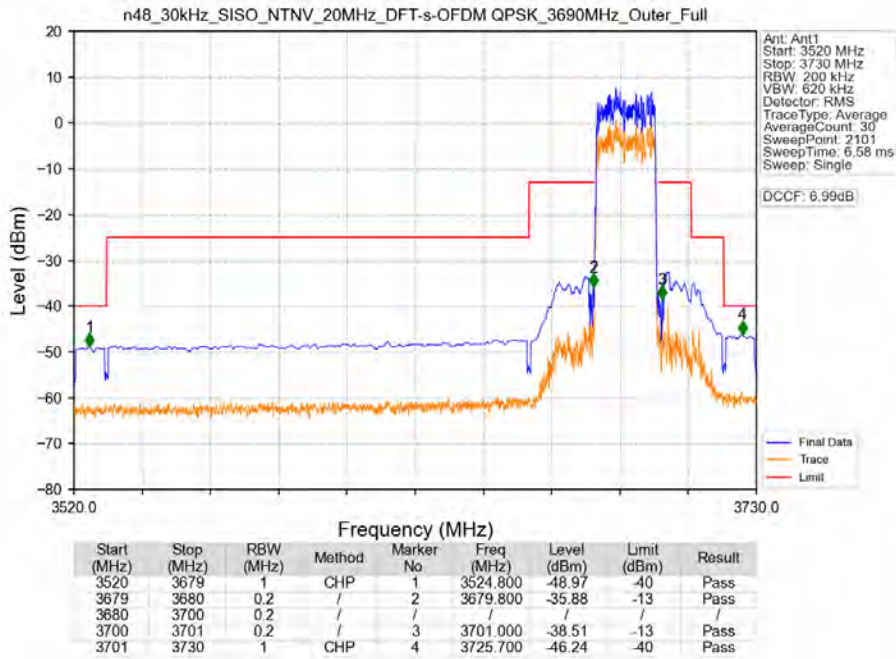
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n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_QPSK_3690MHz_Outer_Full



n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_QPSK_3690MHz_Inner_1RB_Right



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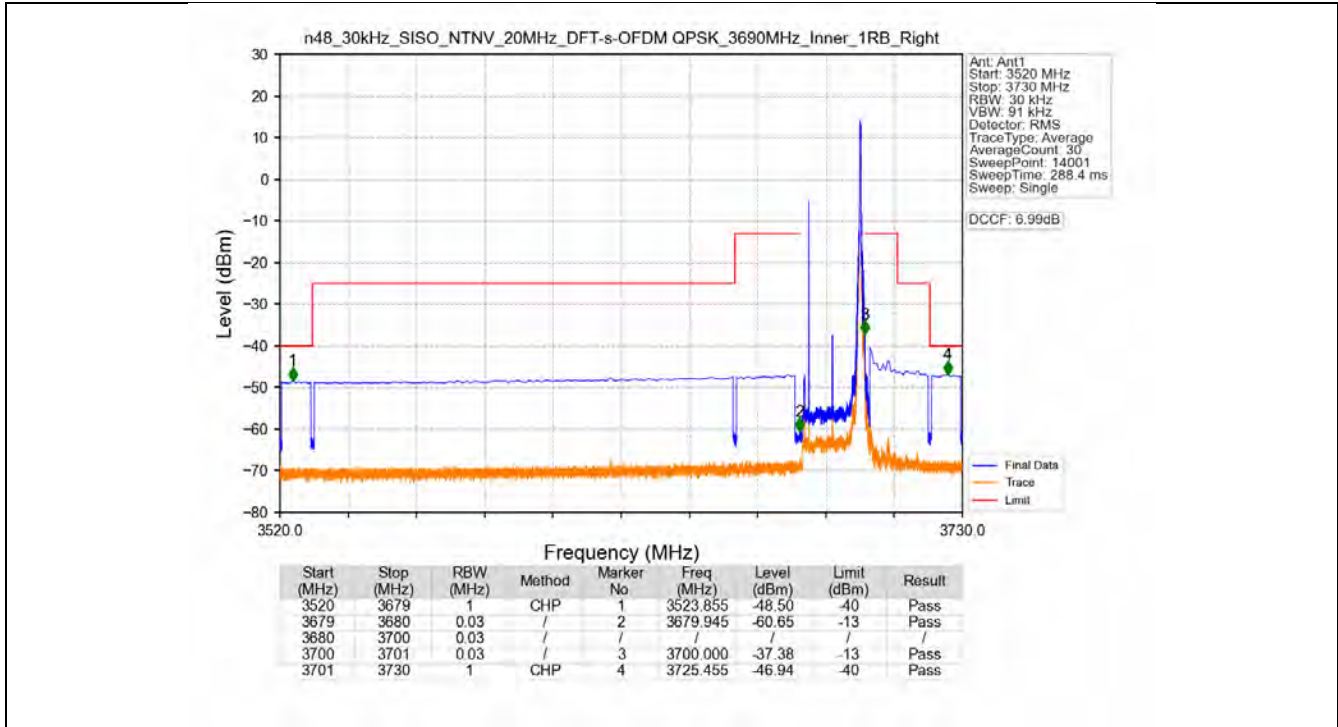


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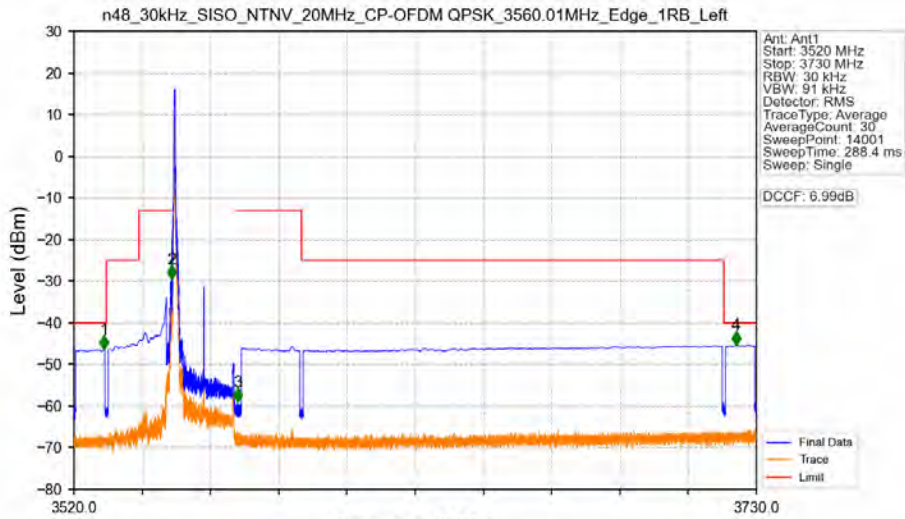
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n48_30kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_3560.01MHz_Edge_1RB_Left



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3520	3549.01	1	CHP	1	3529.300	-46.41	-40	Pass
3549.01	3550.01	0.03	/	2	3549.970	-29.64	-13	Pass
3550.01	3570.01	0.03	/	/	/	/	/	/
3570.01	3571.01	0.03	/	3	3570.280	-59.03	-13	Pass
3571.01	3730	1	CHP	4	3723.790	-45.40	-40	Pass

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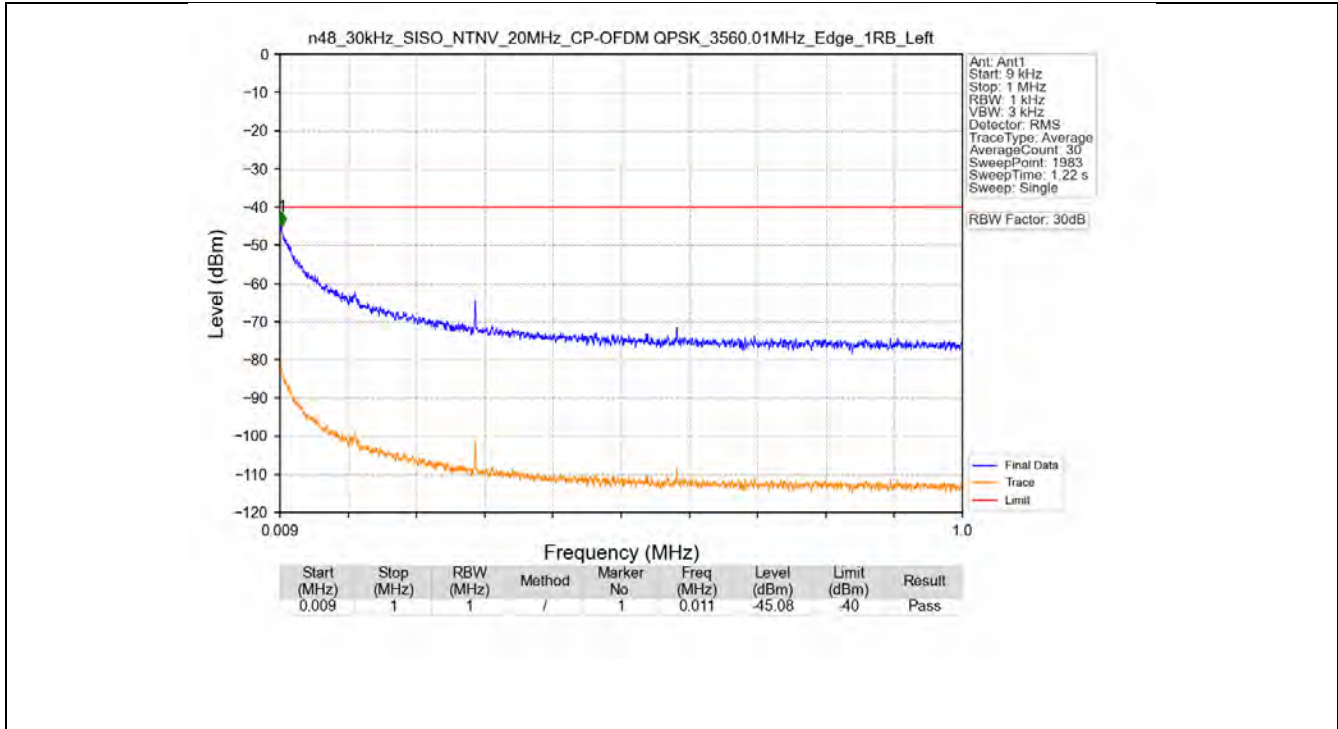


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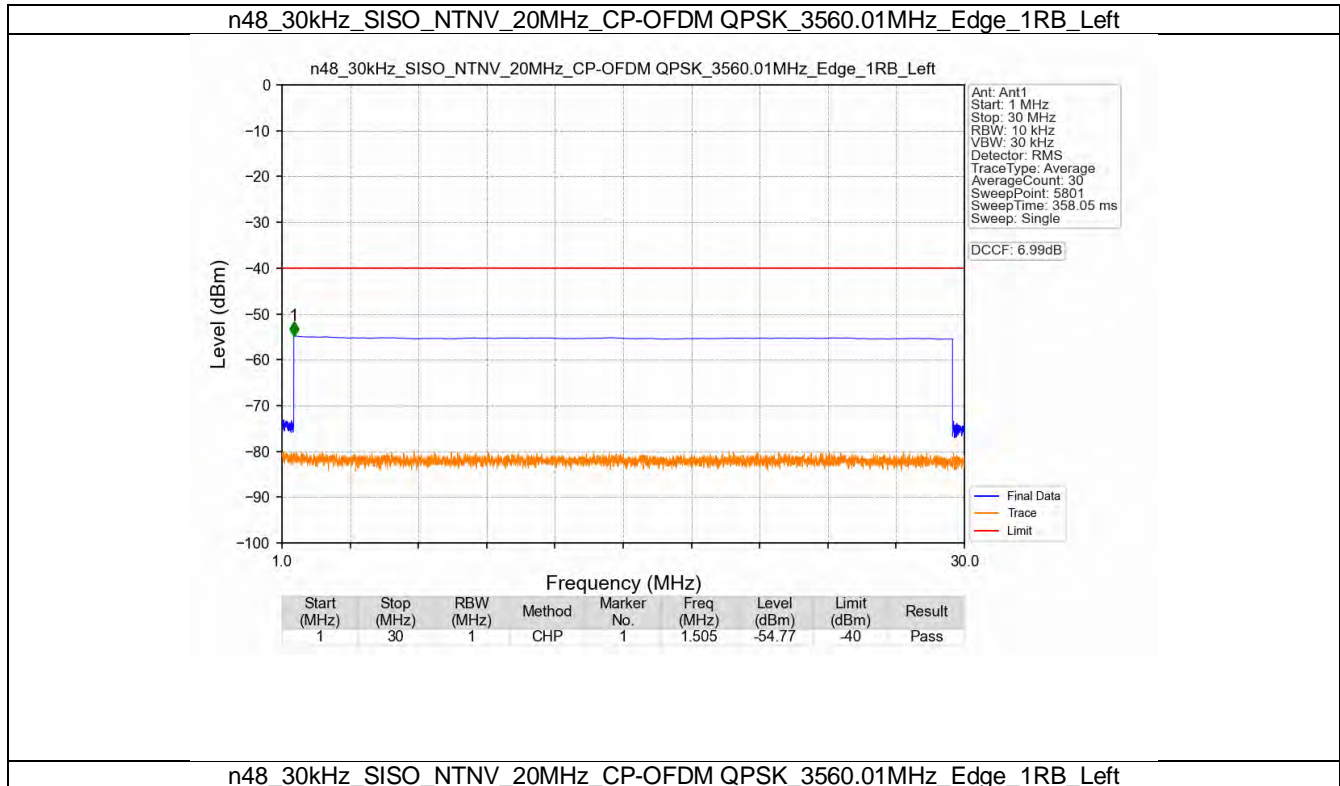


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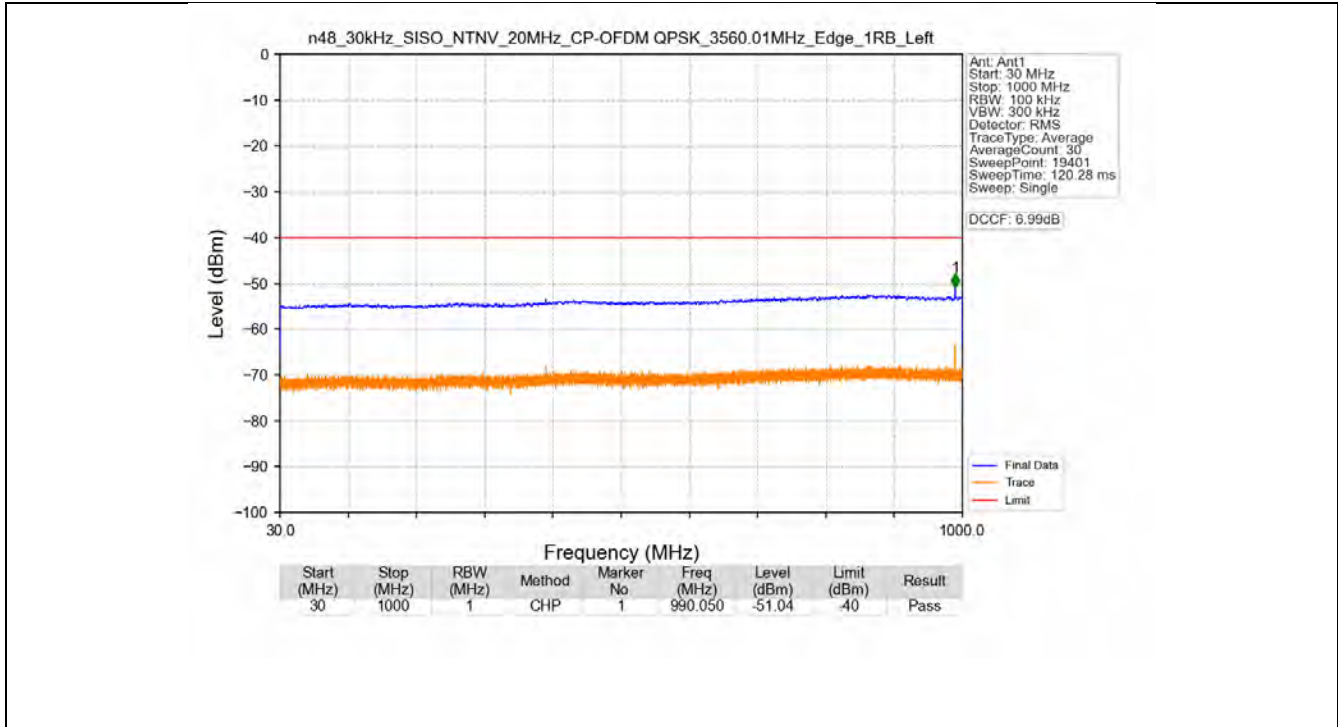


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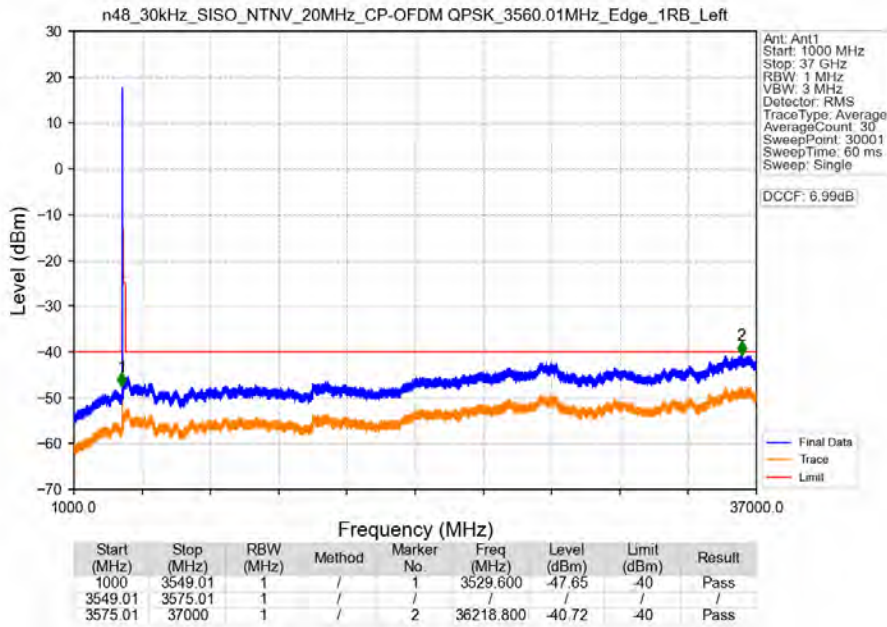
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n48_30kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_3560.01MHz_Edge_1RB_Left



n48_30kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_3560.01MHz_Outer_Full



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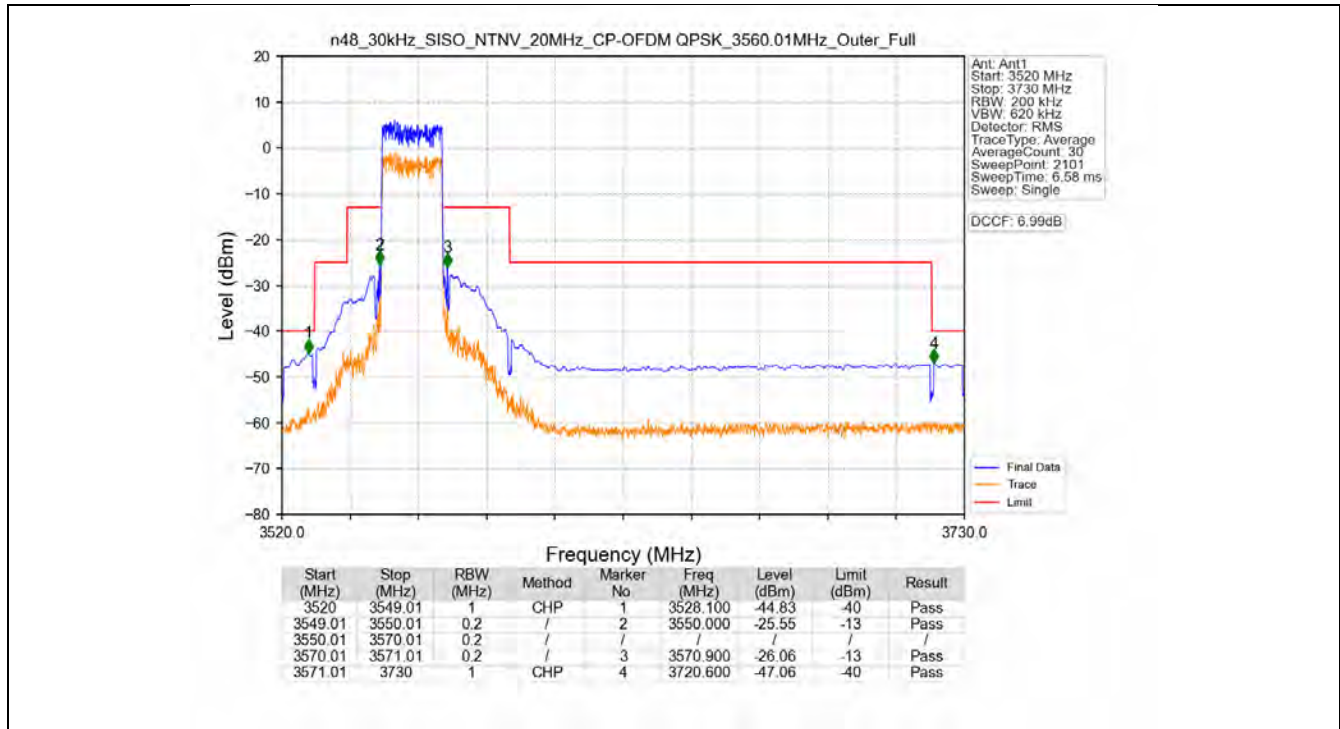


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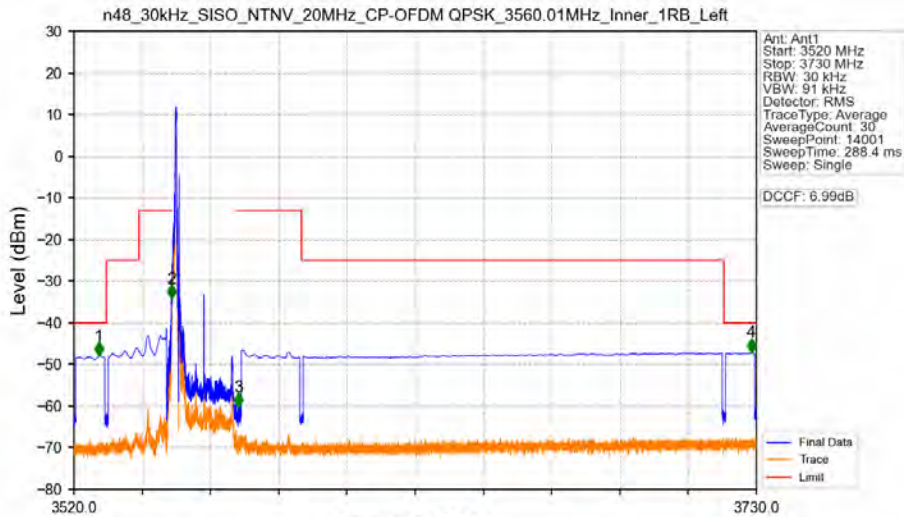
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n48_30kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_3560.01MHz_Inner_1RB_Left



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3520	3549.01	1	CHP	1	3527.710	-48.04	-40	Pass
3549.01	3550.01	0.03	/	2	3549.985	-34.25	-13	Pass
3550.01	3570.01	0.03	/	/	/	/	/	/
3570.01	3571.01	0.03	/	3	3570.565	-60.21	-13	Pass
3571.01	3730	1	CHP	4	3728.410	-47.13	-40	Pass

n48_30kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_3624.99MHz_Edge_1RB_Left



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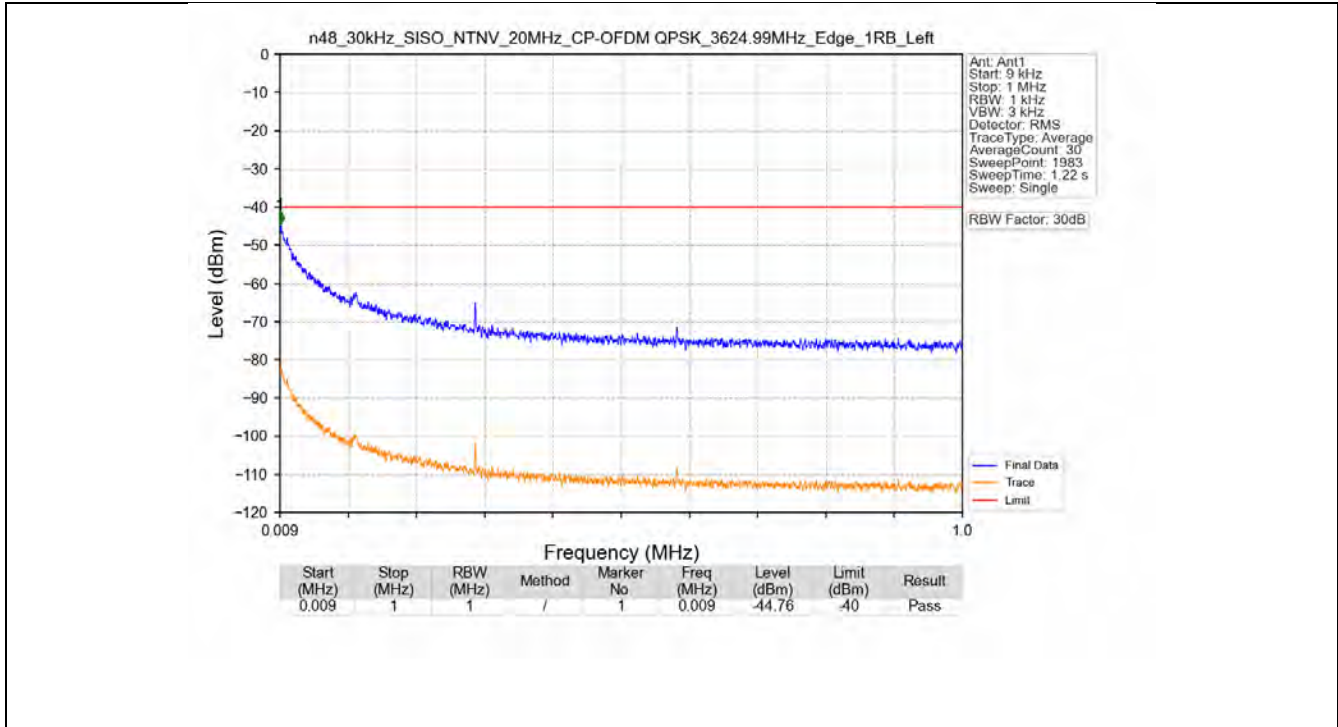


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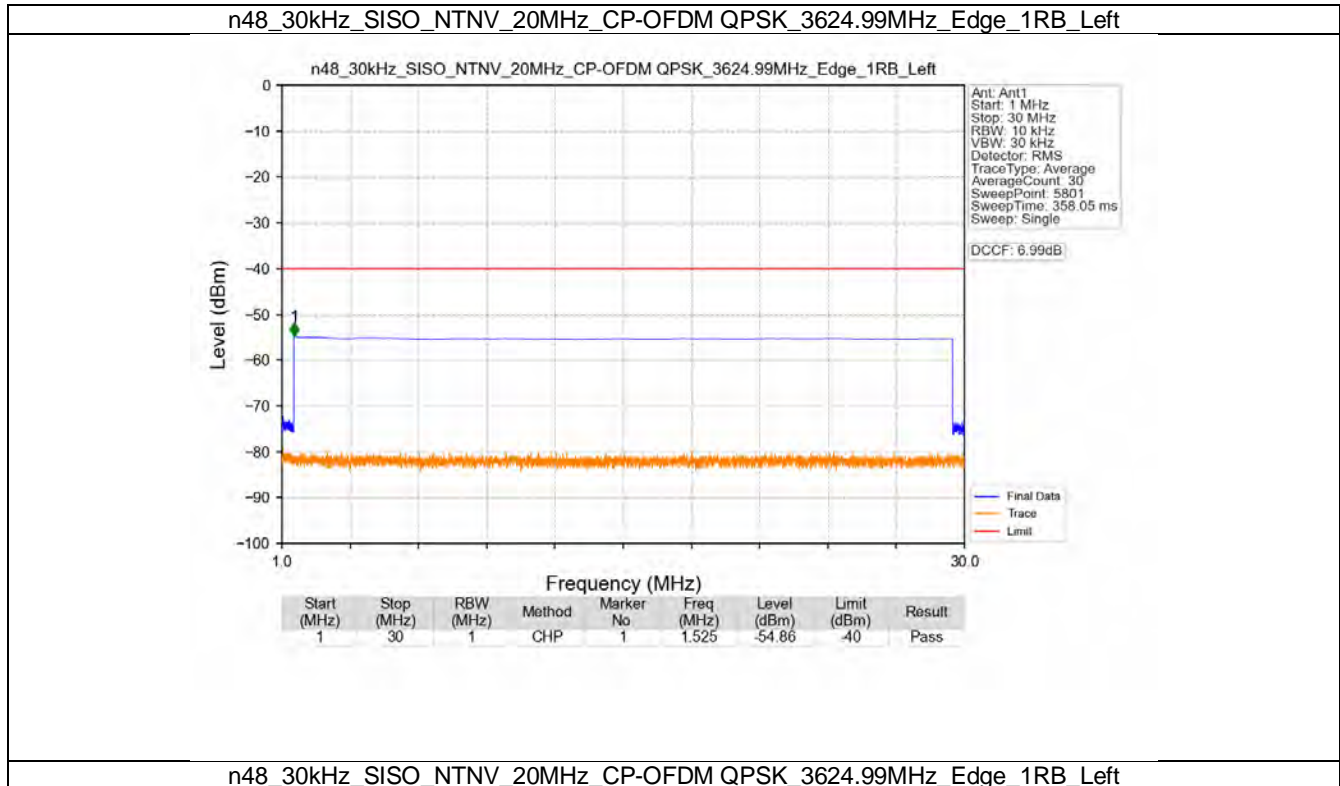


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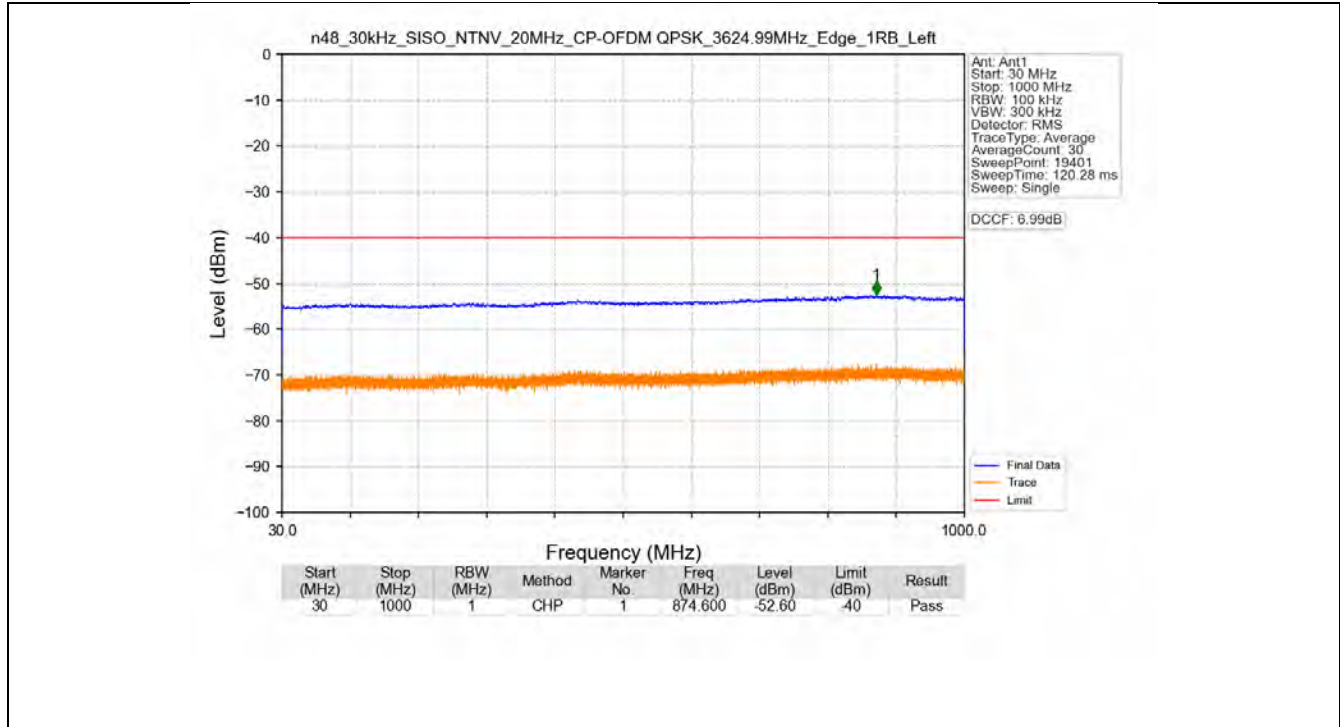


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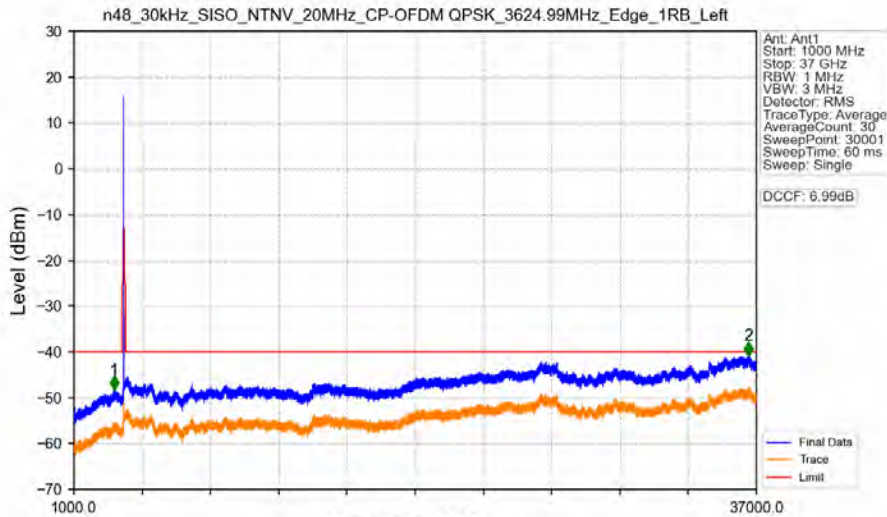
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n48_30kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_3624.99MHz_Edge_1RB_Left



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	3613.99	1	/	1	3127.600	-48.26	-40	Pass
3613.99	3639.99	1	/	/	/	/	/	/
3639.99	37000	1	/	2	36586.000	-40.83	-40	Pass

n48_30kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_3690MHz_Edge_1RB_Right



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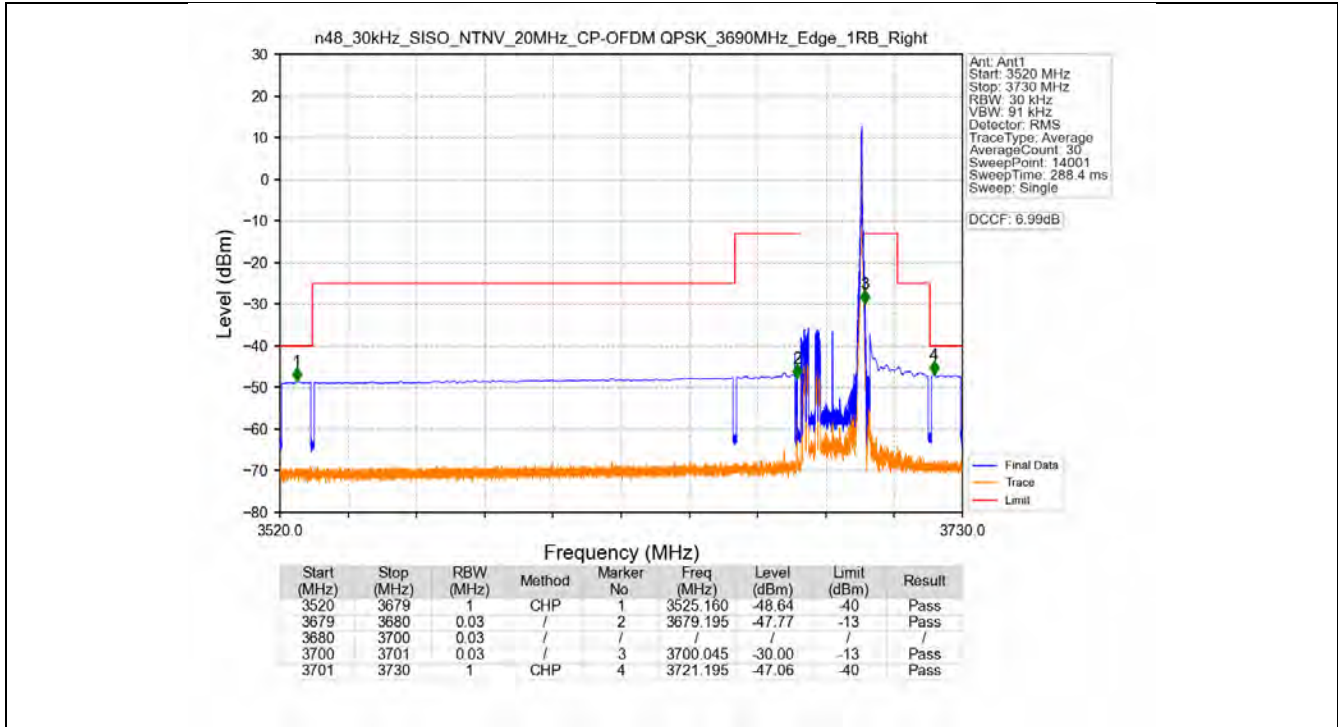


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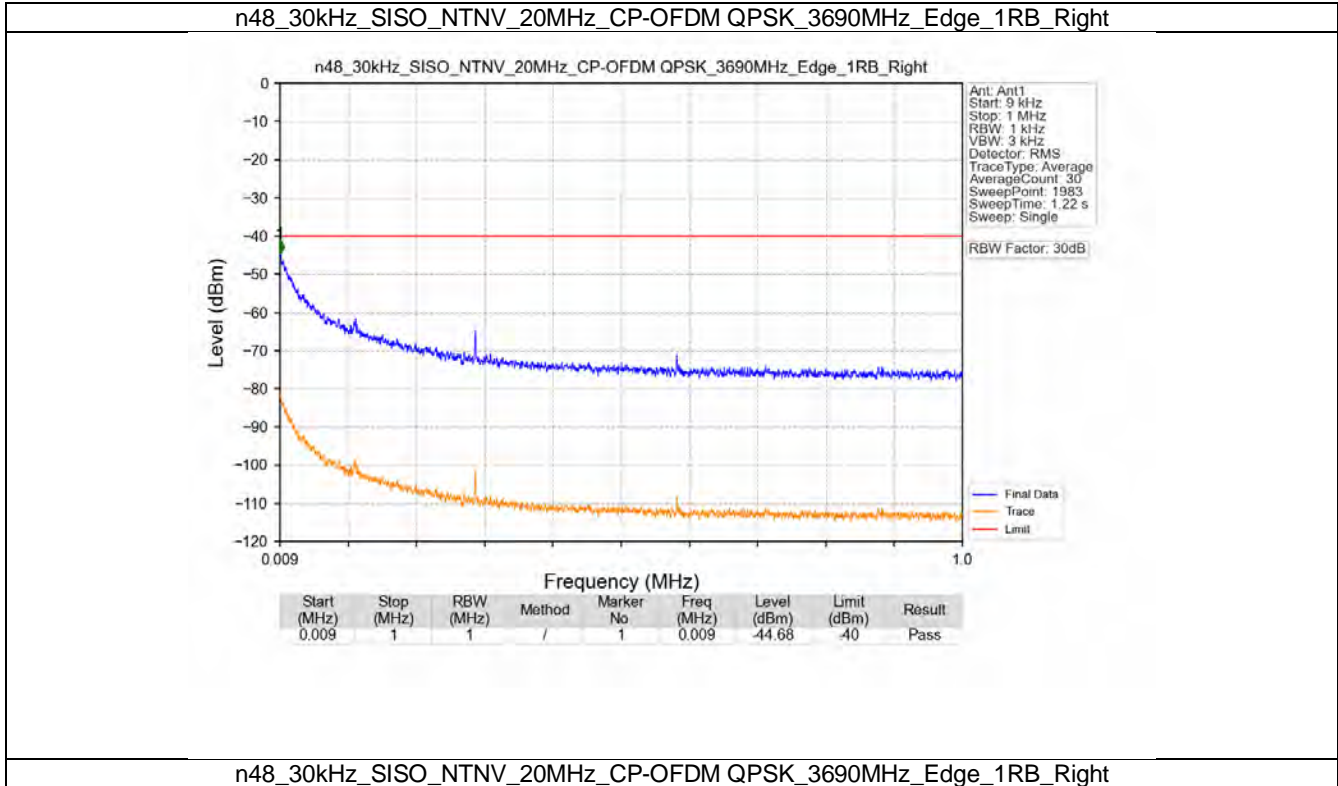


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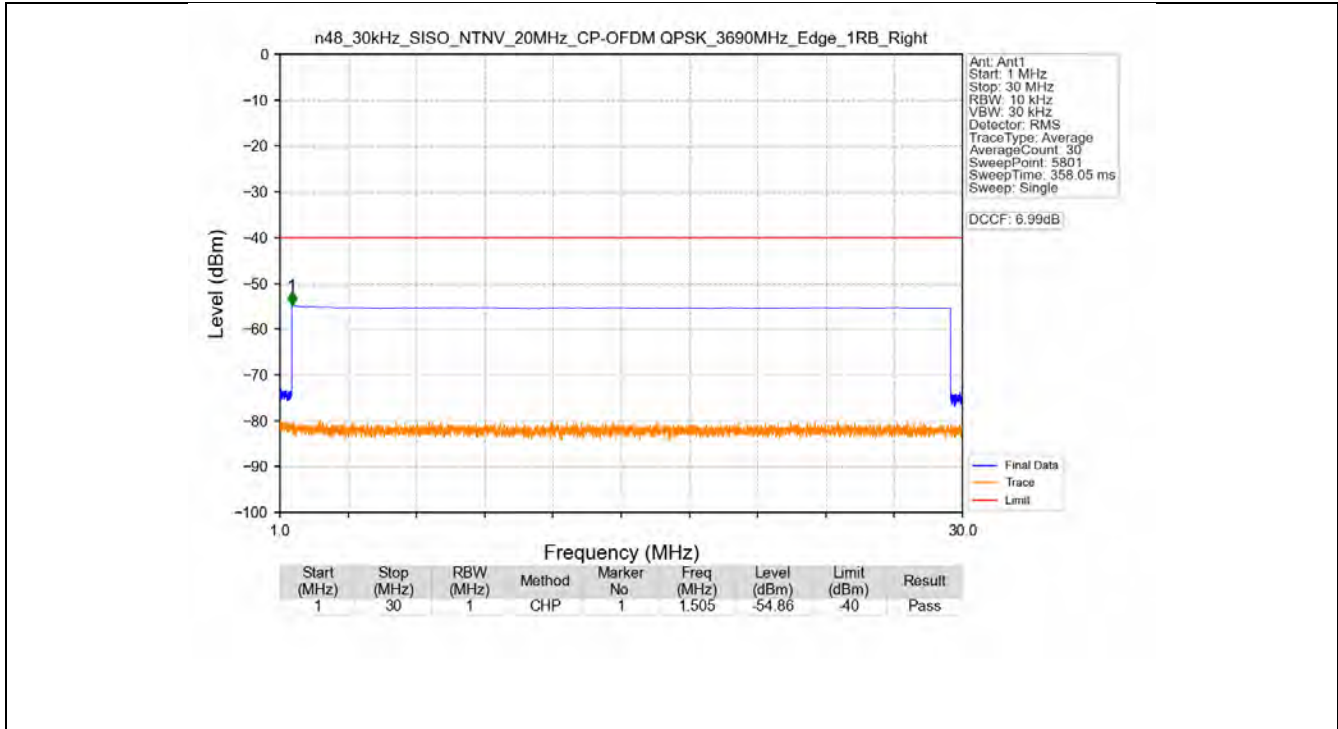


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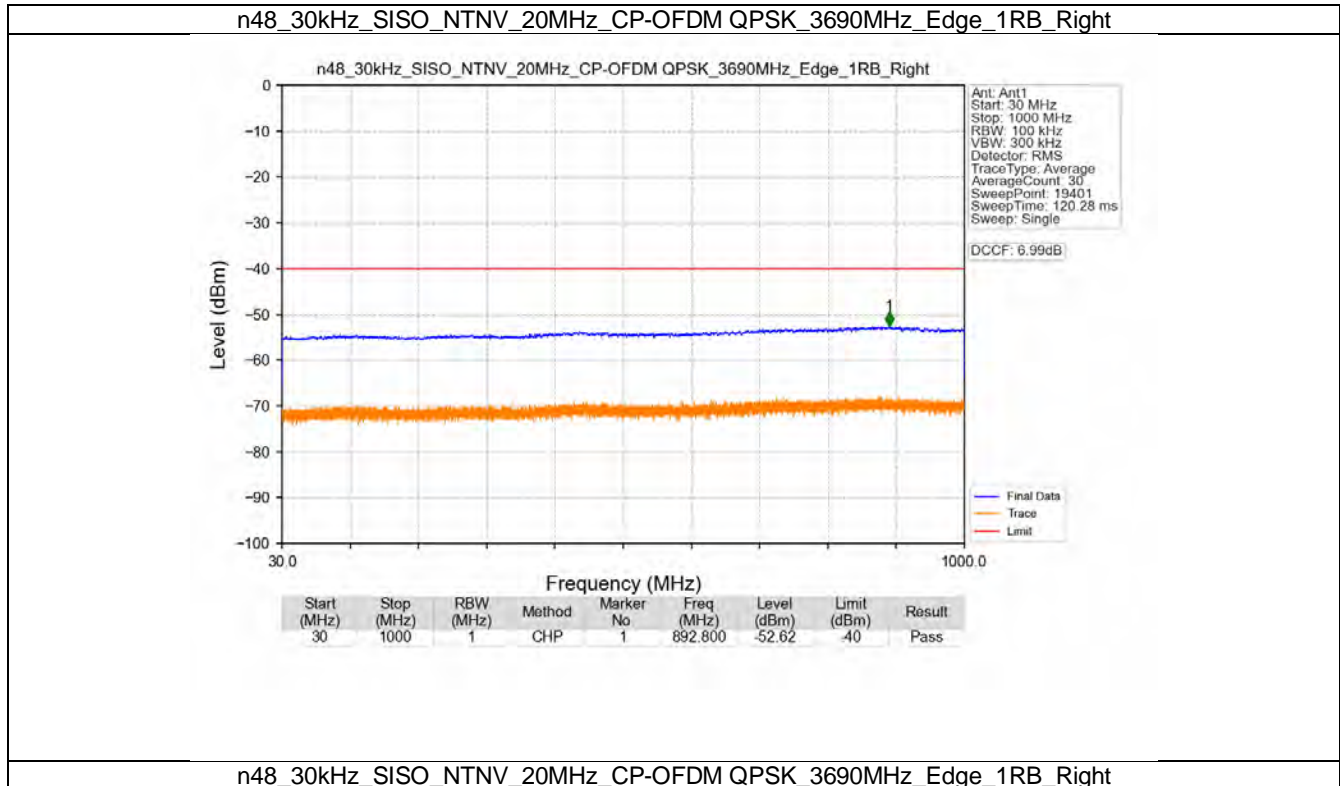


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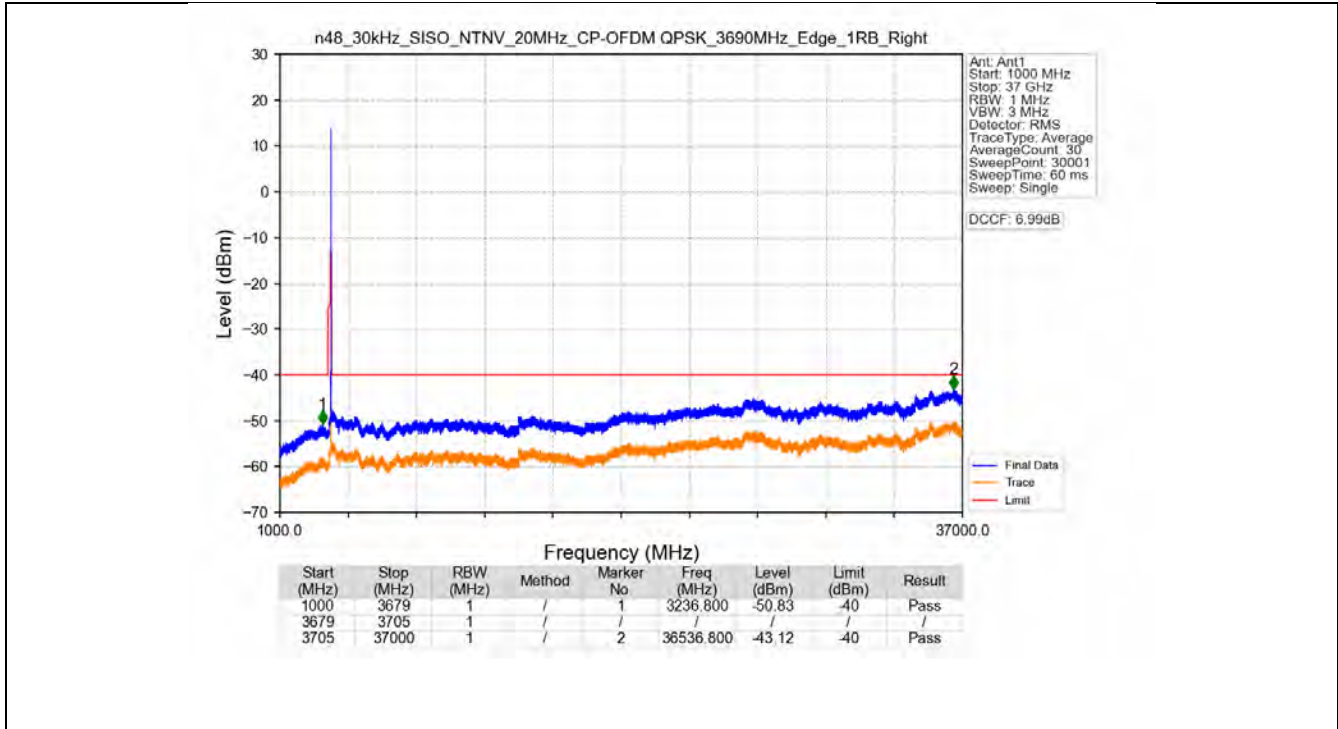


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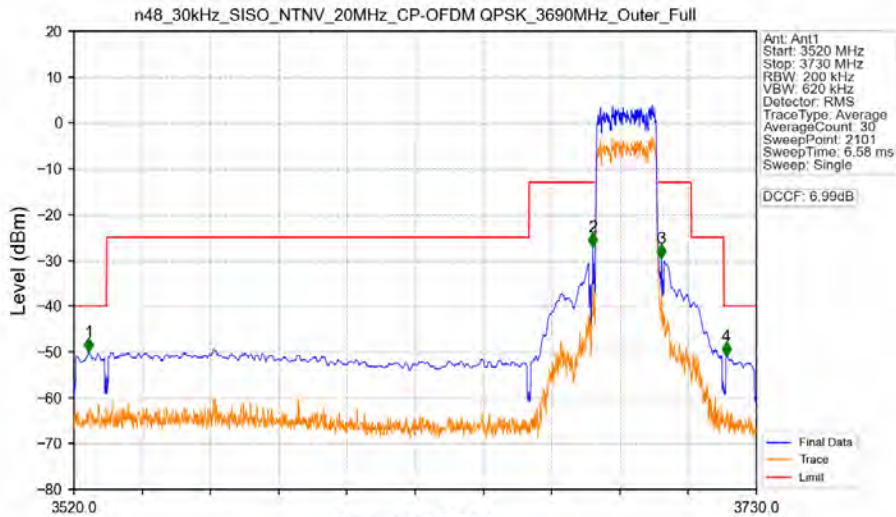
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n48_30kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_3690MHz_Outer_Full



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3520	3679	1	CHP	1	3524.500	-50.04	-40	Pass
3679	3680	0.2	/	2	3679.700	-27.11	-13	Pass
3680	3700	0.2	/	/	/	/	/	/
3700	3701	0.2	/	3	3700.800	-29.53	-13	Pass
3701	3730	1	CHP	4	3720.800	-50.95	-40	Pass

n48_30kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_3690MHz_Inner_1RB_Right



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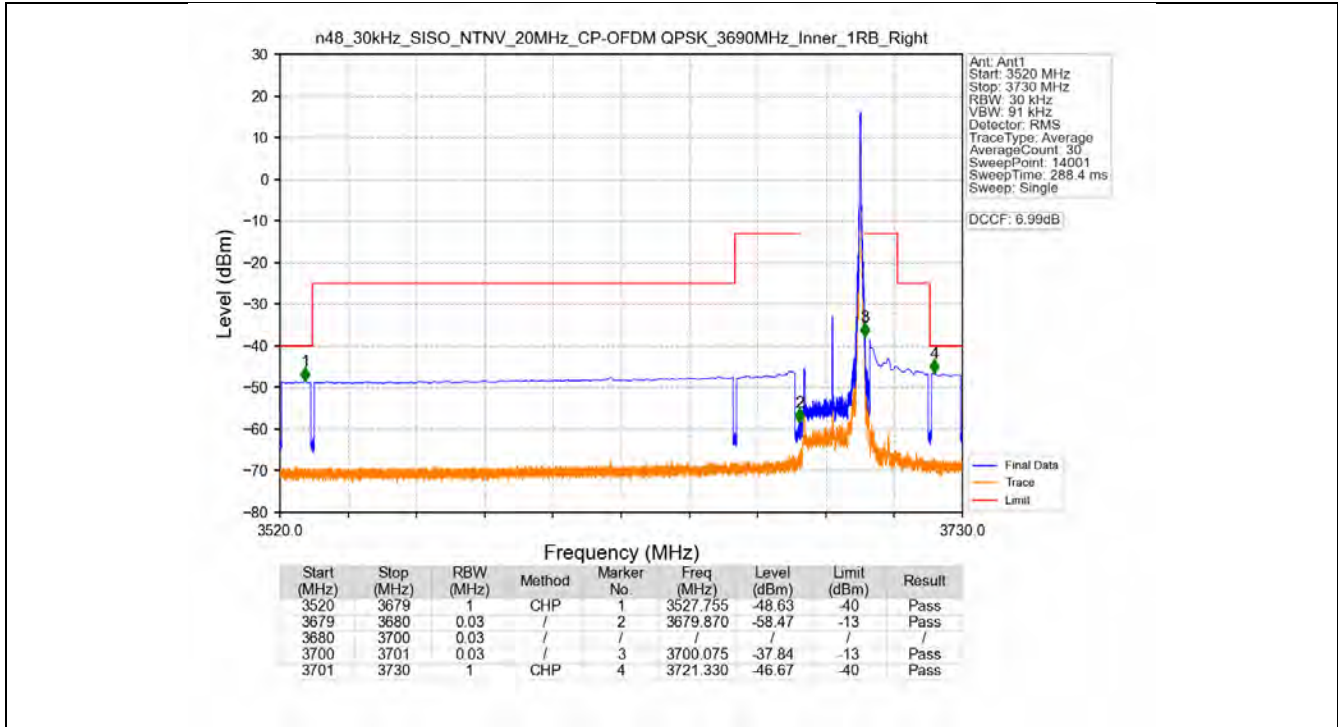


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5.3 30k_SISO_40MHz_NTNV

5.3.1 Test Result

5G NR n48 SCS=30kHz SISO 40MHz NNTV							
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission				Verdict
			Ant1	Ant4	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3570	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
		Inner_1RB_Left	Refer To Test Graph				Pass
	3624.99	Edge_1RB_Left	Refer To Test Graph				Pass
		Edge_1RB_Right	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
DFT-s-OFDM QPSK	3570	Inner_1RB_Right	Refer To Test Graph				Pass
		Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
	3624.99	Inner_1RB_Left	Refer To Test Graph				Pass
		Edge_1RB_Left	Refer To Test Graph				Pass
		Edge_1RB_Right	Refer To Test Graph				Pass
CP-OFDM QPSK	3679.98	Outer_Full	Refer To Test Graph				Pass
		Inner_1RB_Right	Refer To Test Graph				Pass
		Edge_1RB_Left	Refer To Test Graph				Pass
	3570	Outer_Full	Refer To Test Graph				Pass
		Inner_1RB_Left	Refer To Test Graph				Pass
		Edge_1RB_Left	Refer To Test Graph				Pass
3624.99	Edge_1RB_Left	Refer To Test Graph				Pass	
	Edge_1RB_Right	Refer To Test Graph				Pass	
	Outer_Full	Refer To Test Graph				Pass	
3679.98	Inner_1RB_Right	Refer To Test Graph				Pass	
	Outer_Full	Refer To Test Graph				Pass	
	Inner_1RB_Right	Refer To Test Graph				Pass	



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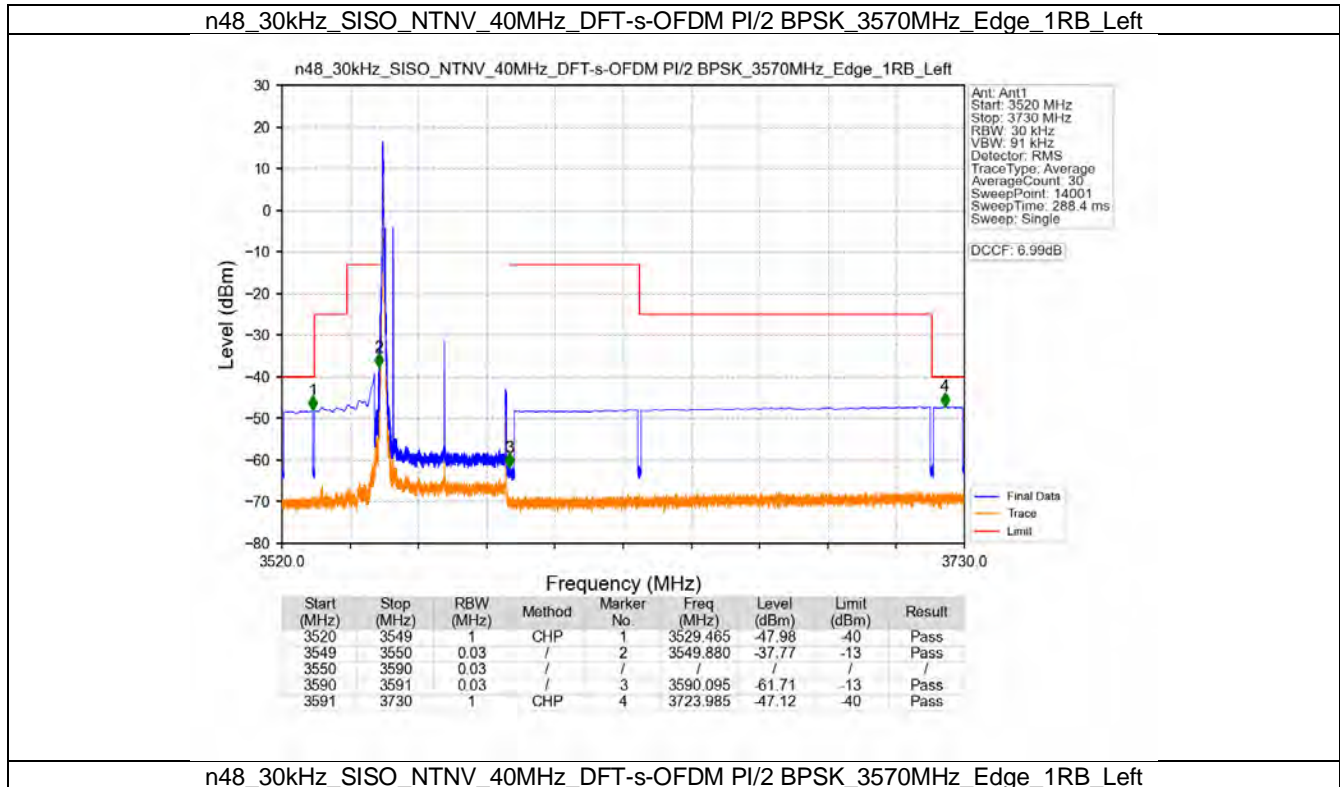
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5.3.2 Test Graph



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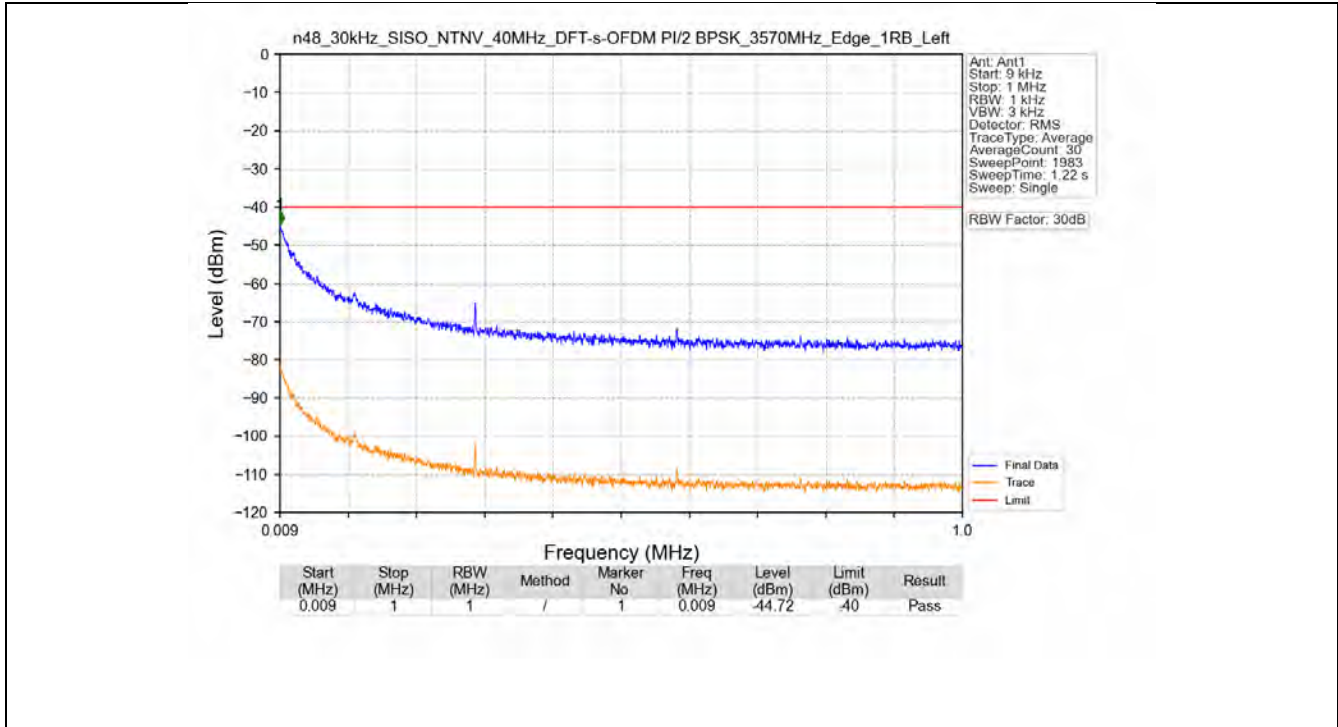


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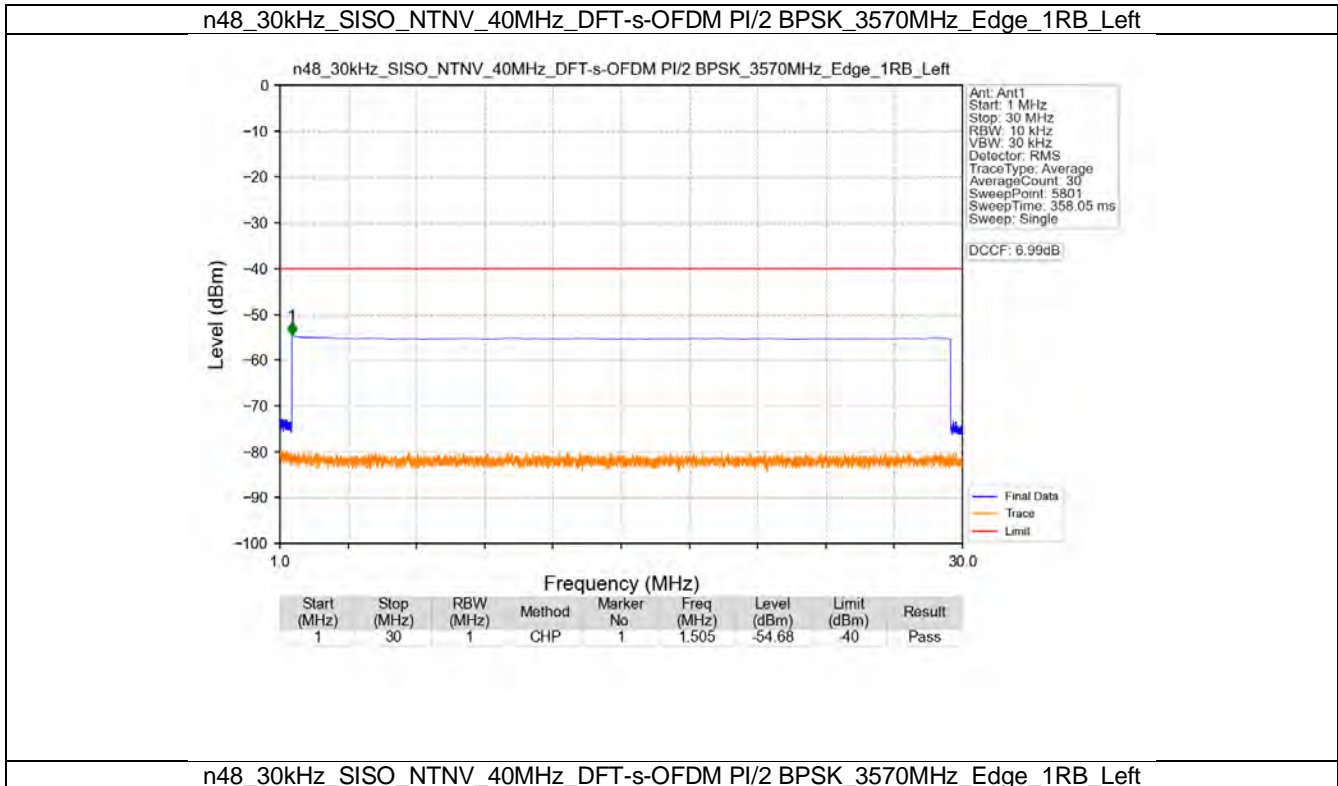


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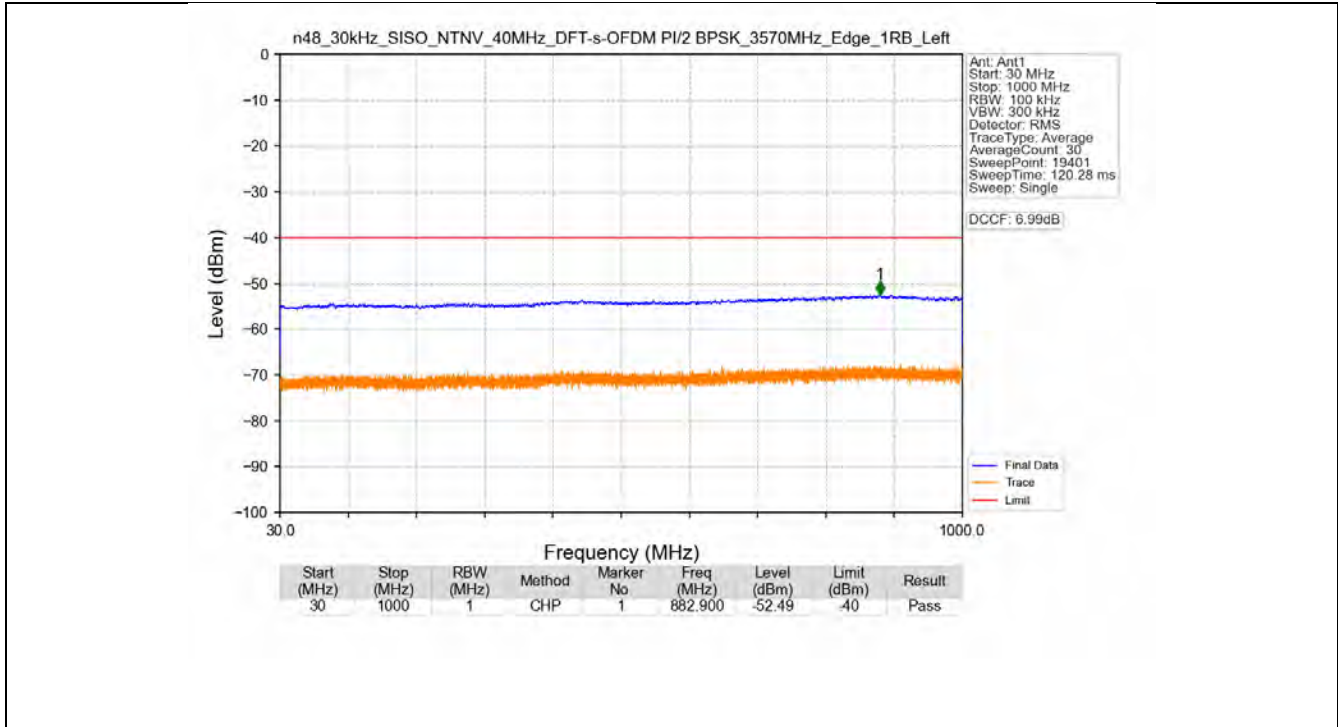


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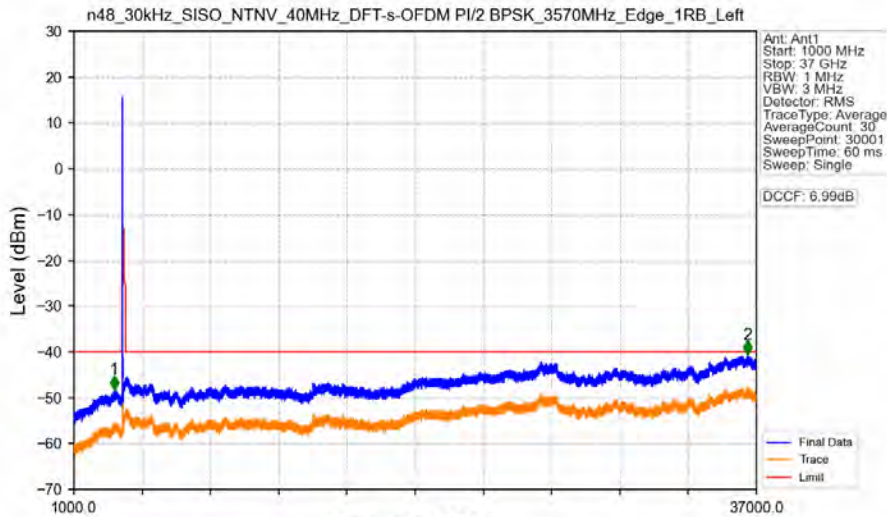
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n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM PI/2 BPSK_3570MHz_Edge_1RB_Left



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	3549	1	/	1	3110.800	-48.25	-40	Pass
3549	3595	1	/	/	/	/	/	/
3595	37000	1	/	2	36539.200	-40.53	-40	Pass

n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM PI/2 BPSK_3570MHz_Outer_Full



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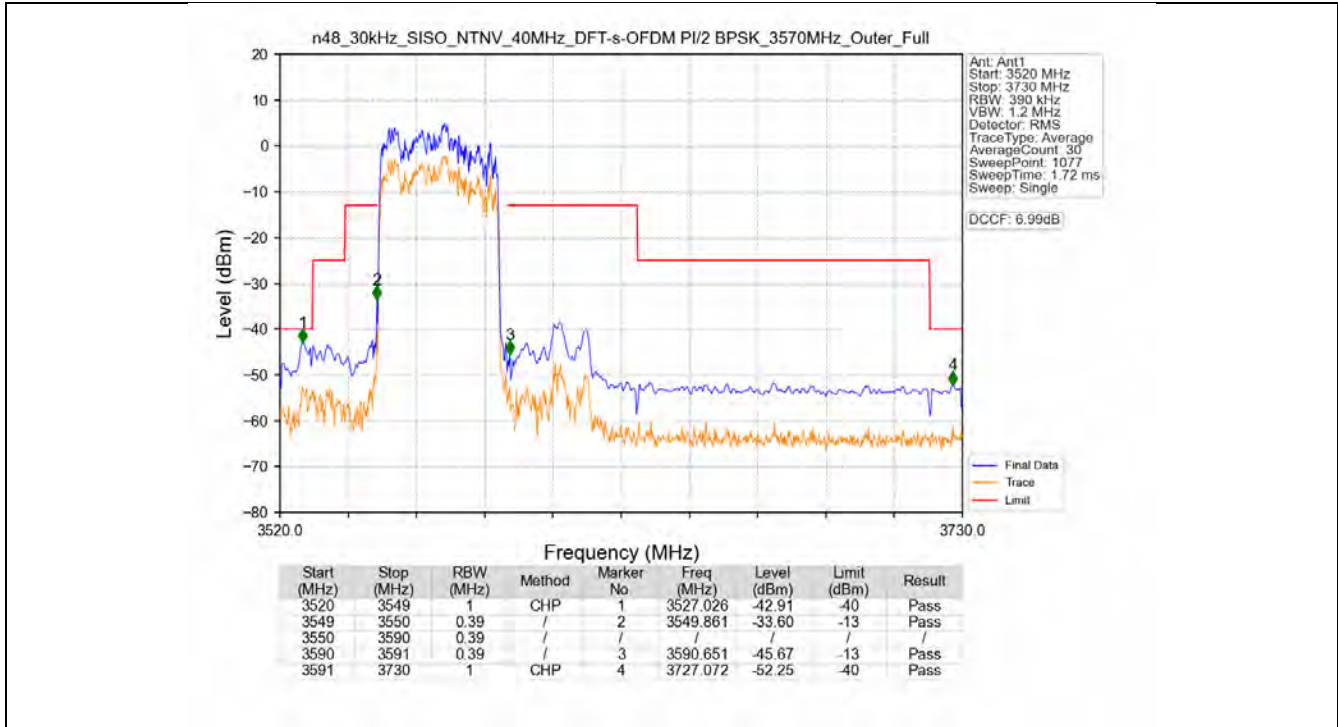


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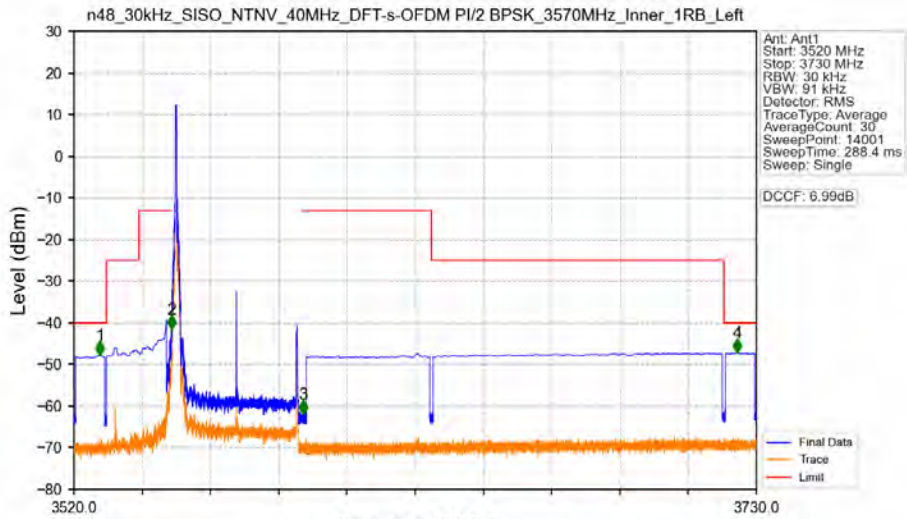
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n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM PI/2 BPSK_3570MHz_Inner_1RB_Left



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3520	3549	1	CHP	1	3527.995	-47.83	-40	Pass
3549	3550	0.03	/	2	3550.000	-41.66	-13	Pass
3550	3590	0.03	/	/	/	/	/	/
3590	3591	0.03	/	3	3590.425	-61.97	-13	Pass
3591	3730	1	CHP	4	3724.165	-47.20	-40	Pass

n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM PI/2 BPSK_3624.99MHz_Edge_1RB_Left



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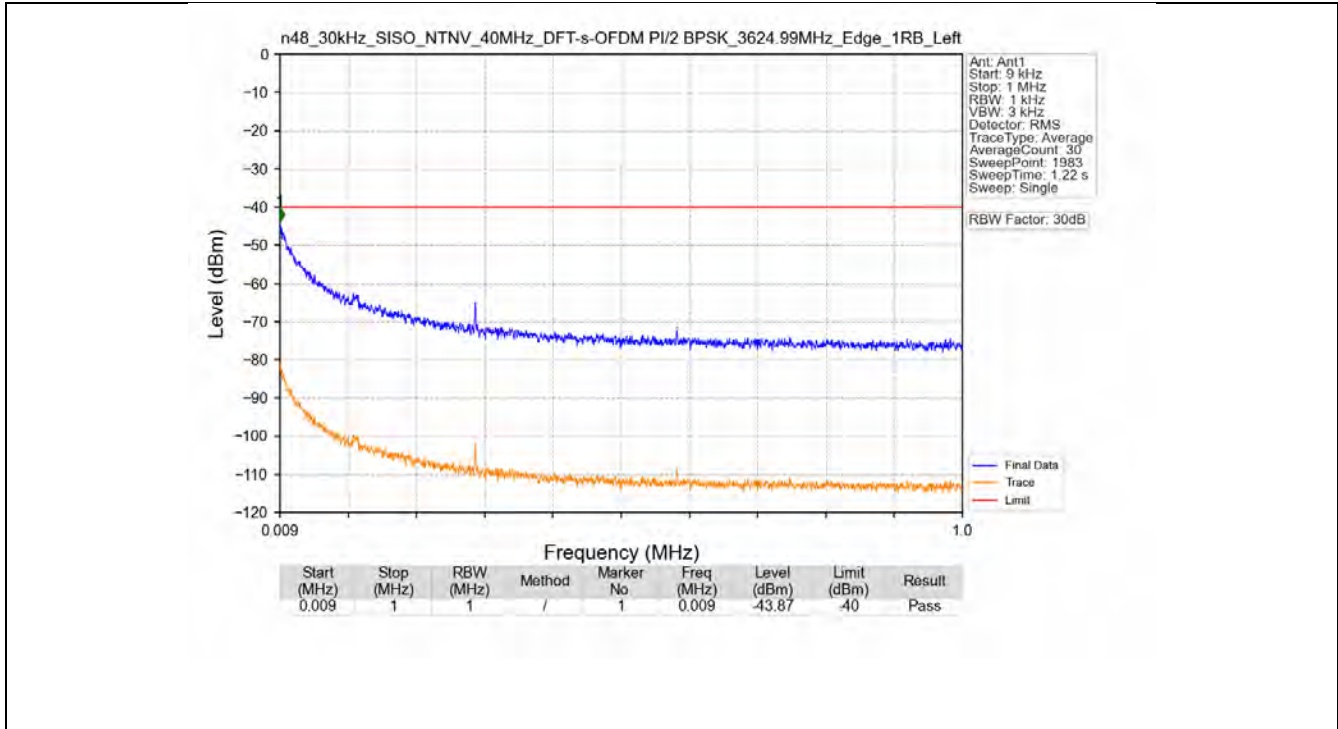


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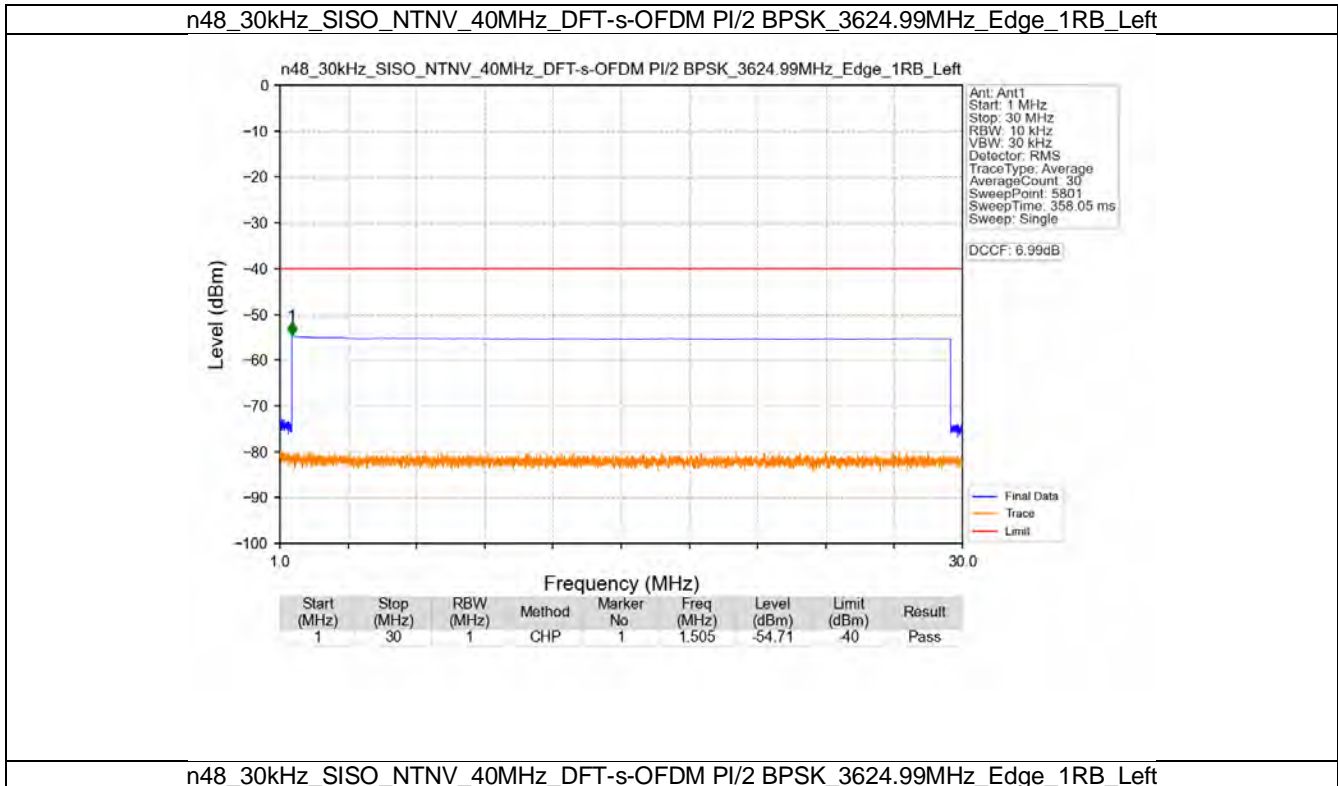


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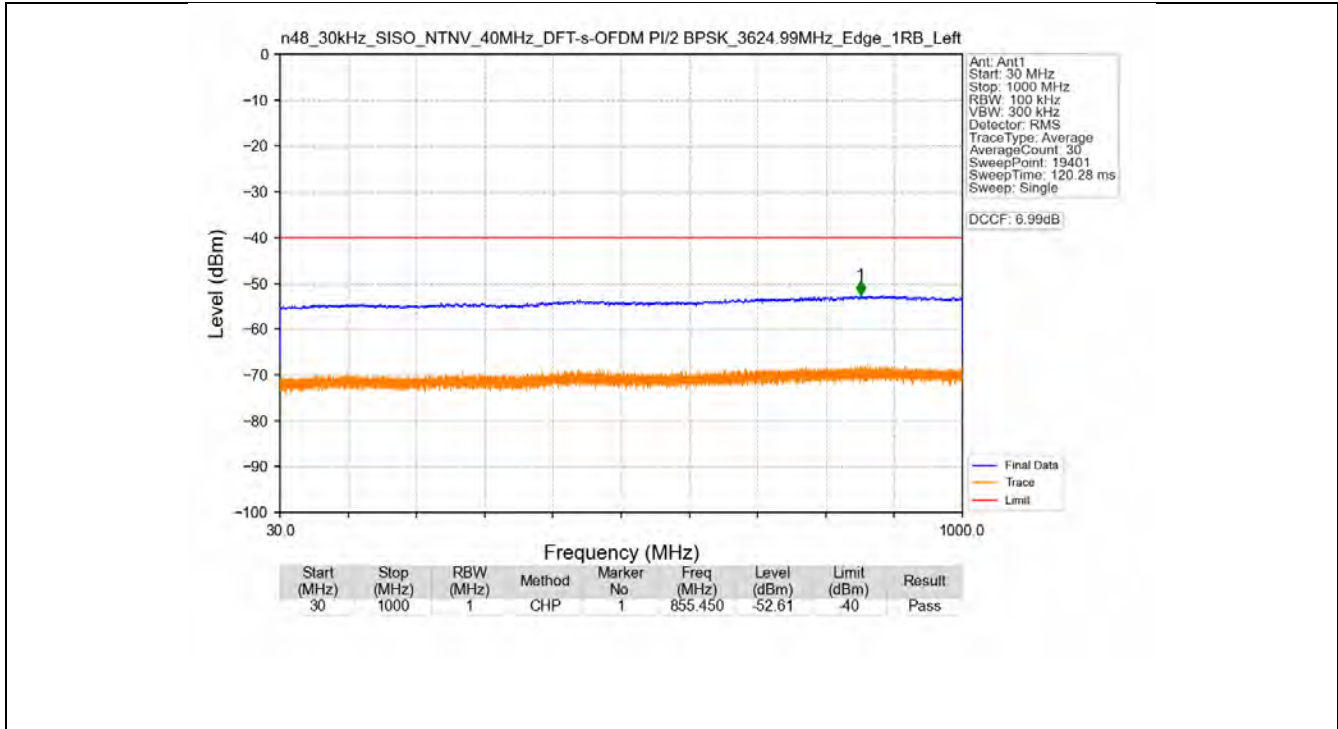


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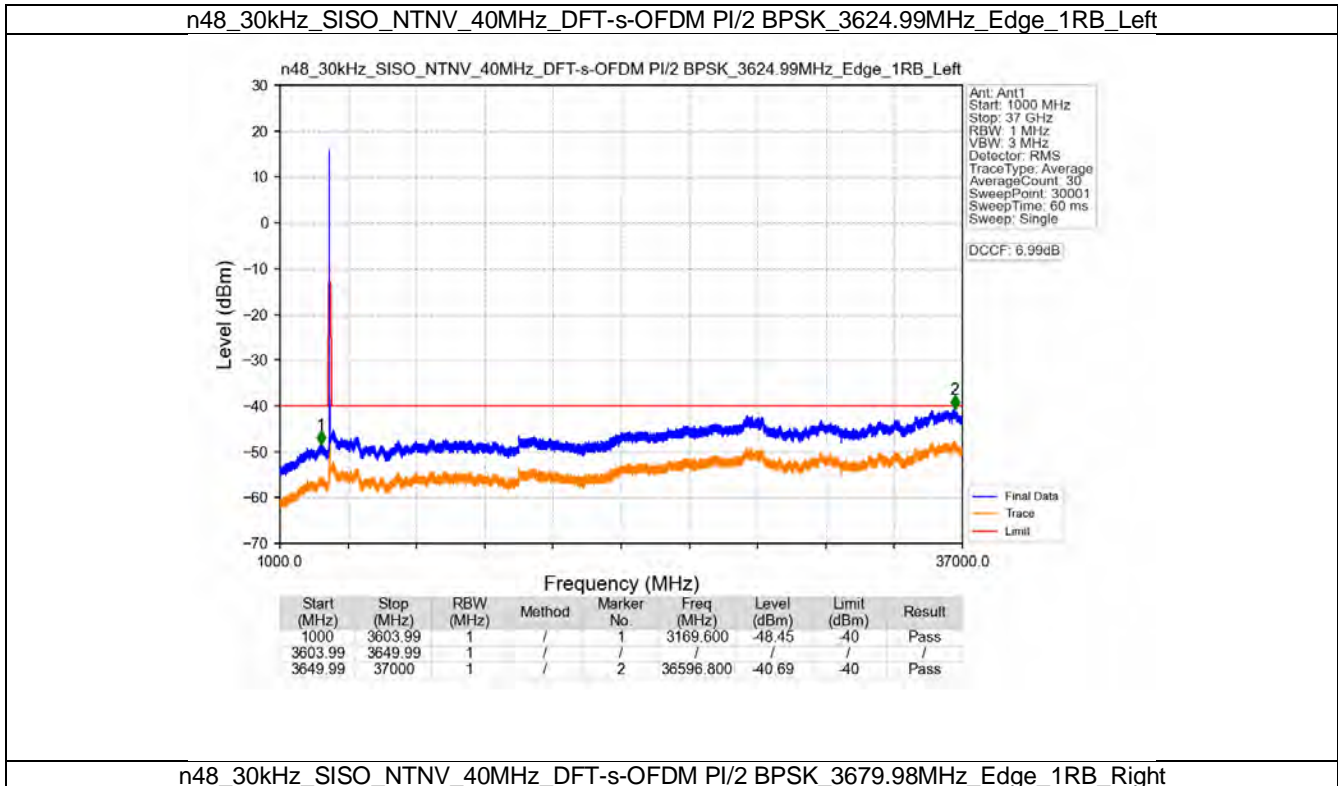


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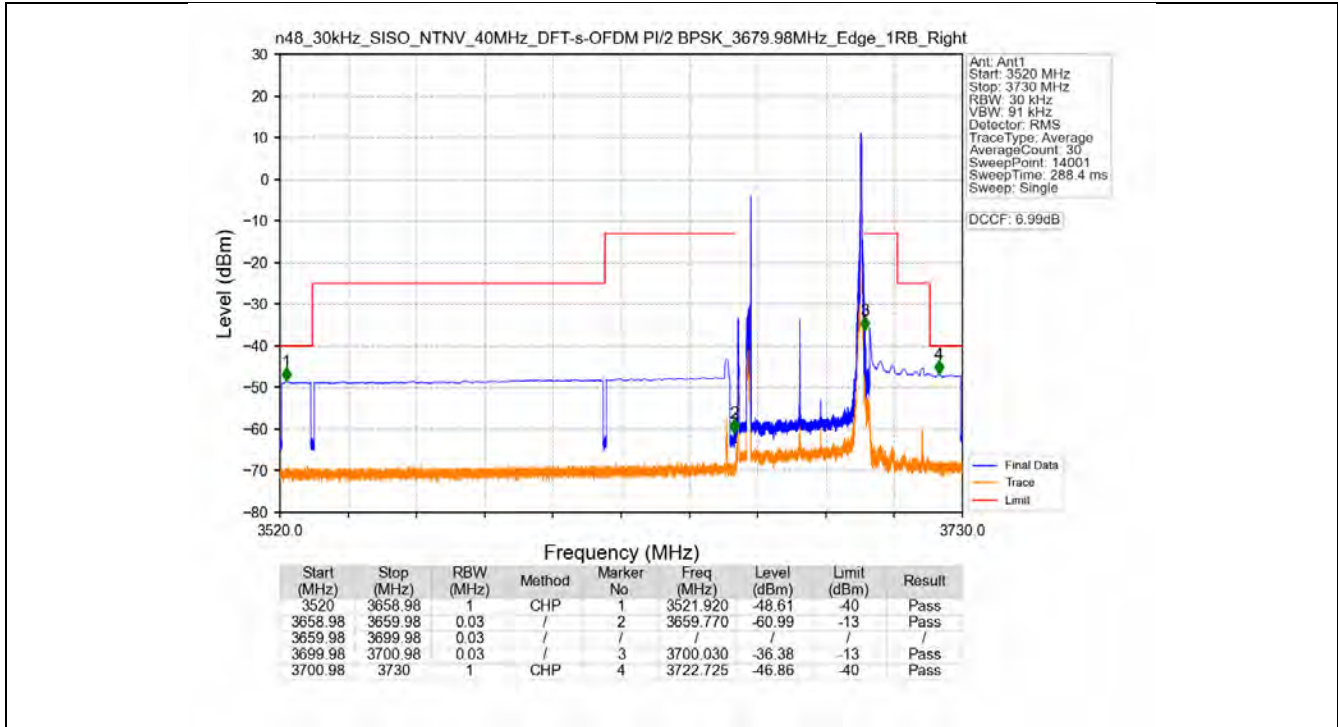


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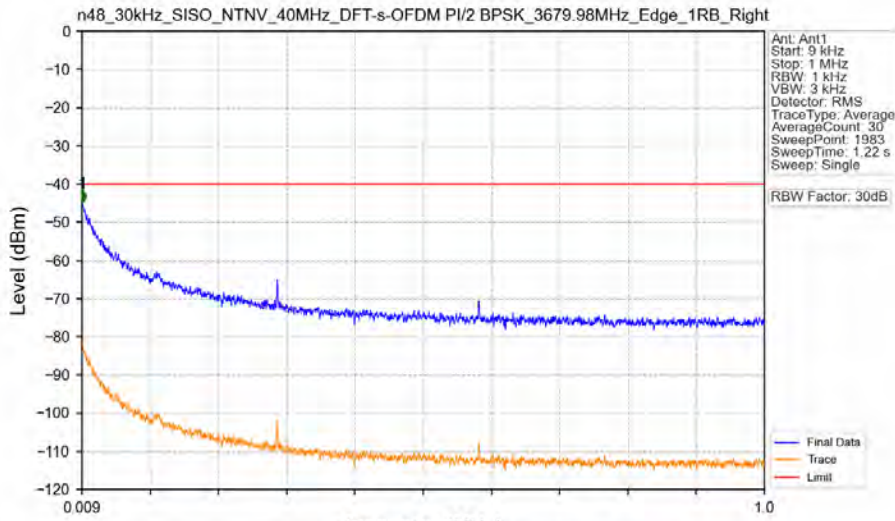
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Shenzhen Branch

Report No.: SZCR240100038409

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n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM PI/2 BPSK_3679.98MHz_Edge_1RB_Right



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
0.009	1	1	/	1	0.009	-45.15	-40	Pass

n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM PI/2 BPSK_3679.98MHz_Edge_1RB_Right



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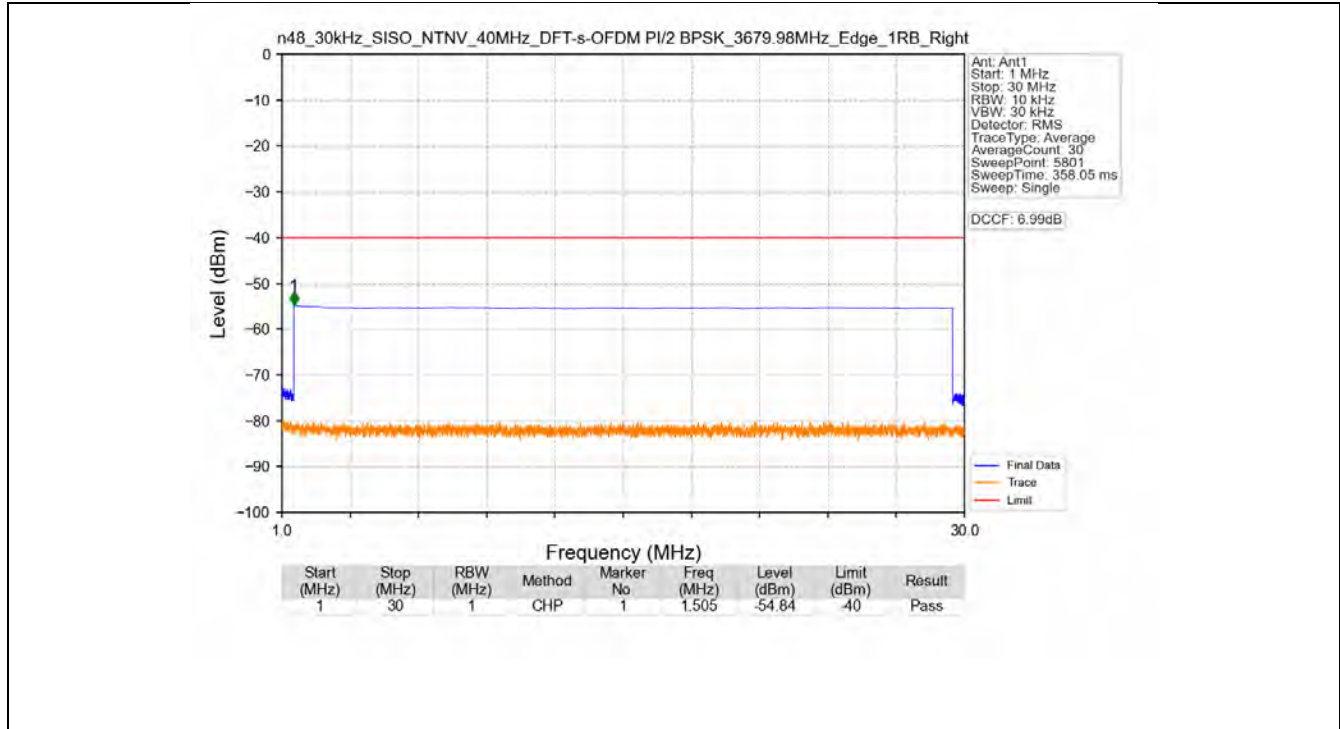


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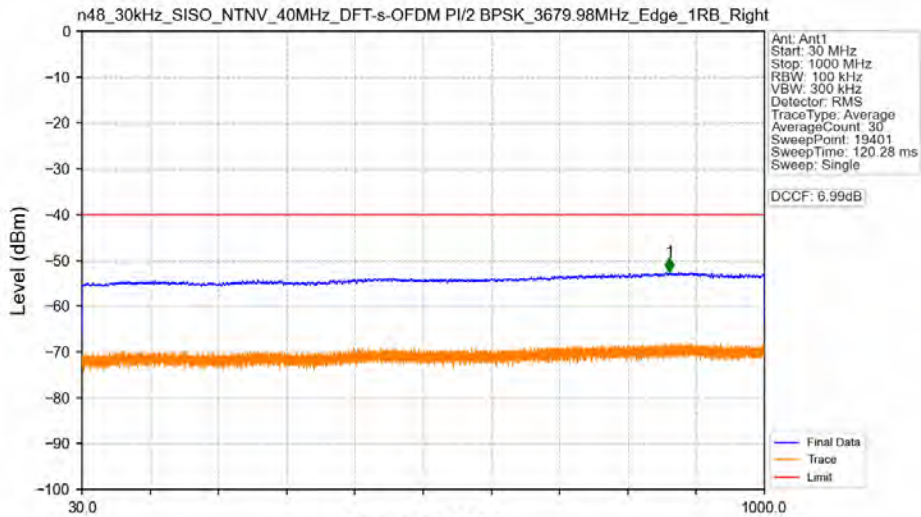
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n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM PI/2 BPSK_3679.98MHz_Edge_1RB_Right



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	1000	1	CHP	1	865.200	-52.58	-40	Pass

n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM PI/2 BPSK_3679.98MHz_Edge_1RB_Right



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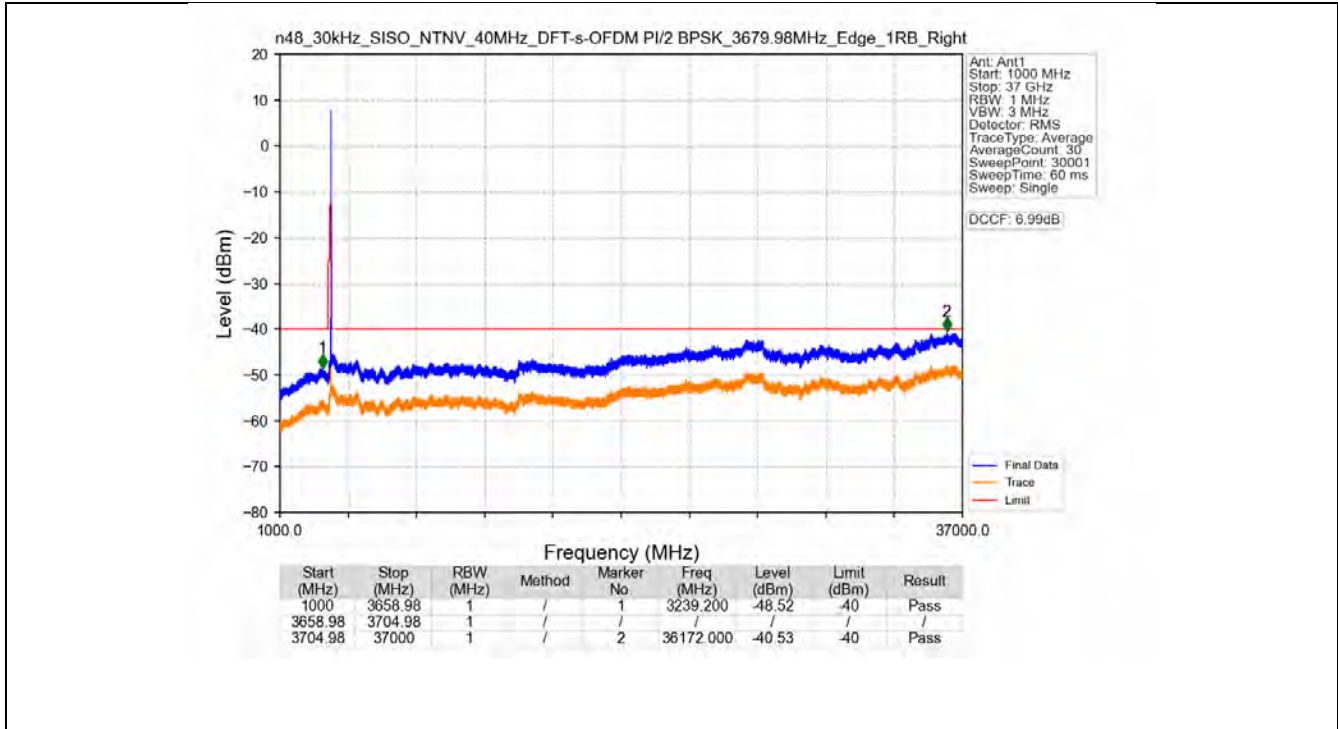


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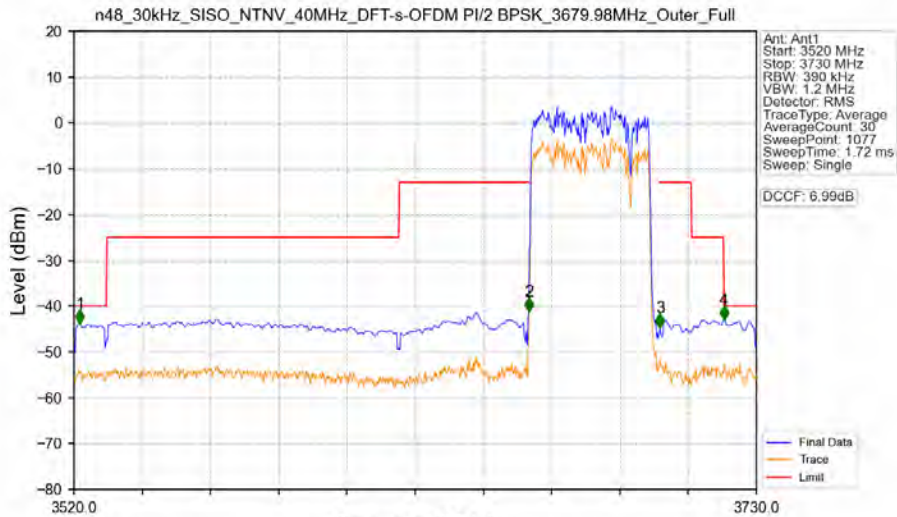
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n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM PI/2 BPSK_3679.98MHz_Outer_Full



n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM PI/2 BPSK_3679.98MHz_Inner_1RB_Right



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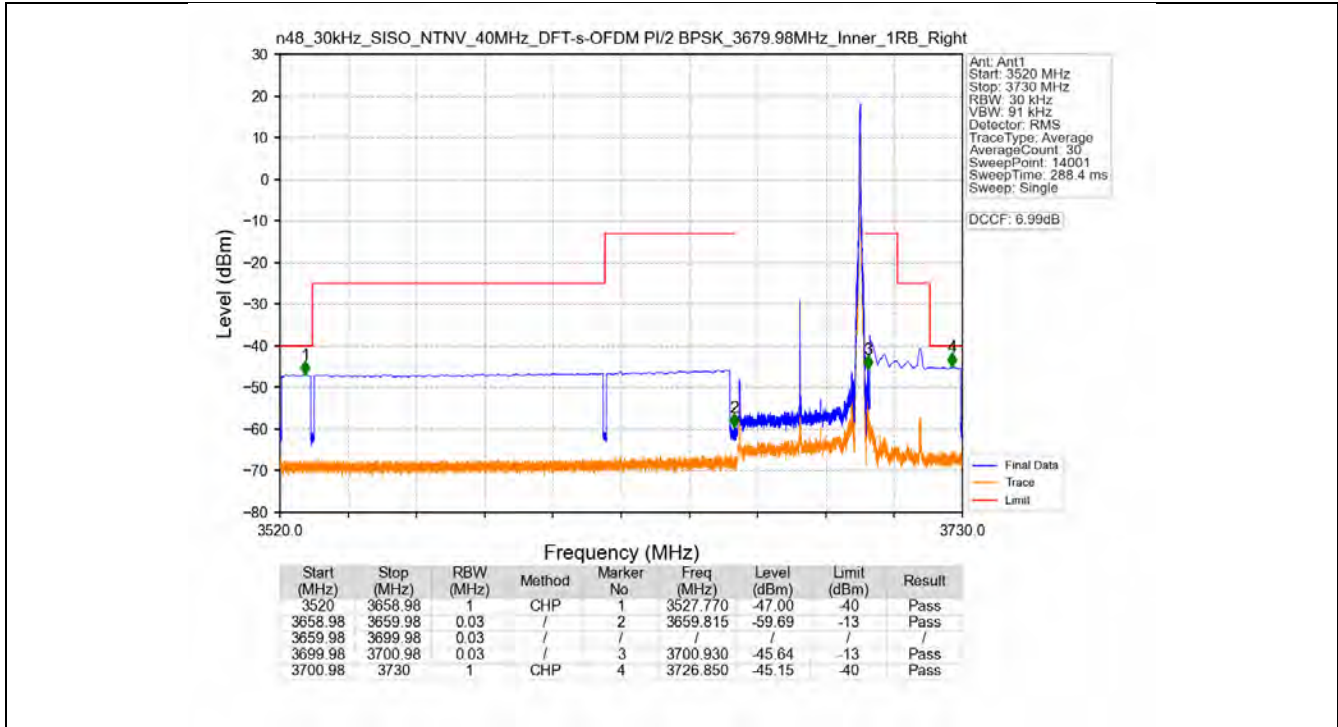


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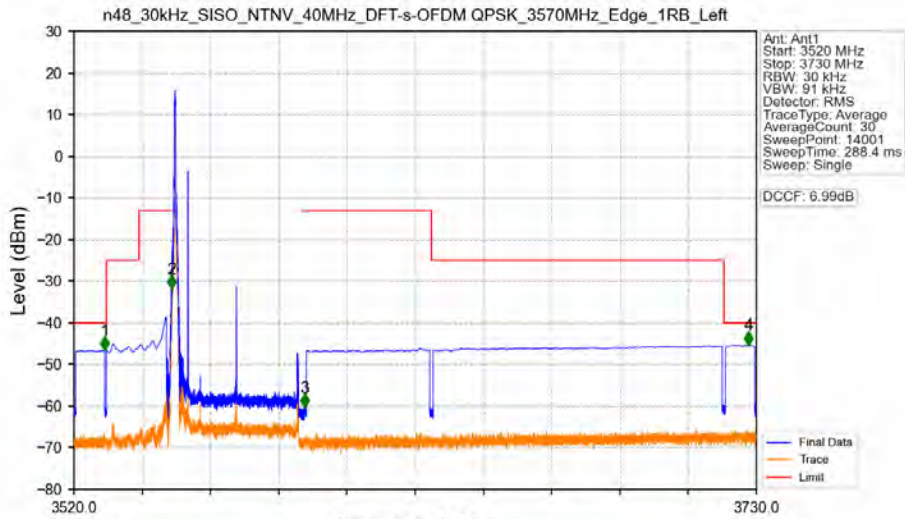
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n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_QPSK_3570MHz_Edge_1RB_Left



n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_QPSK_3570MHz_Edge_1RB_Left



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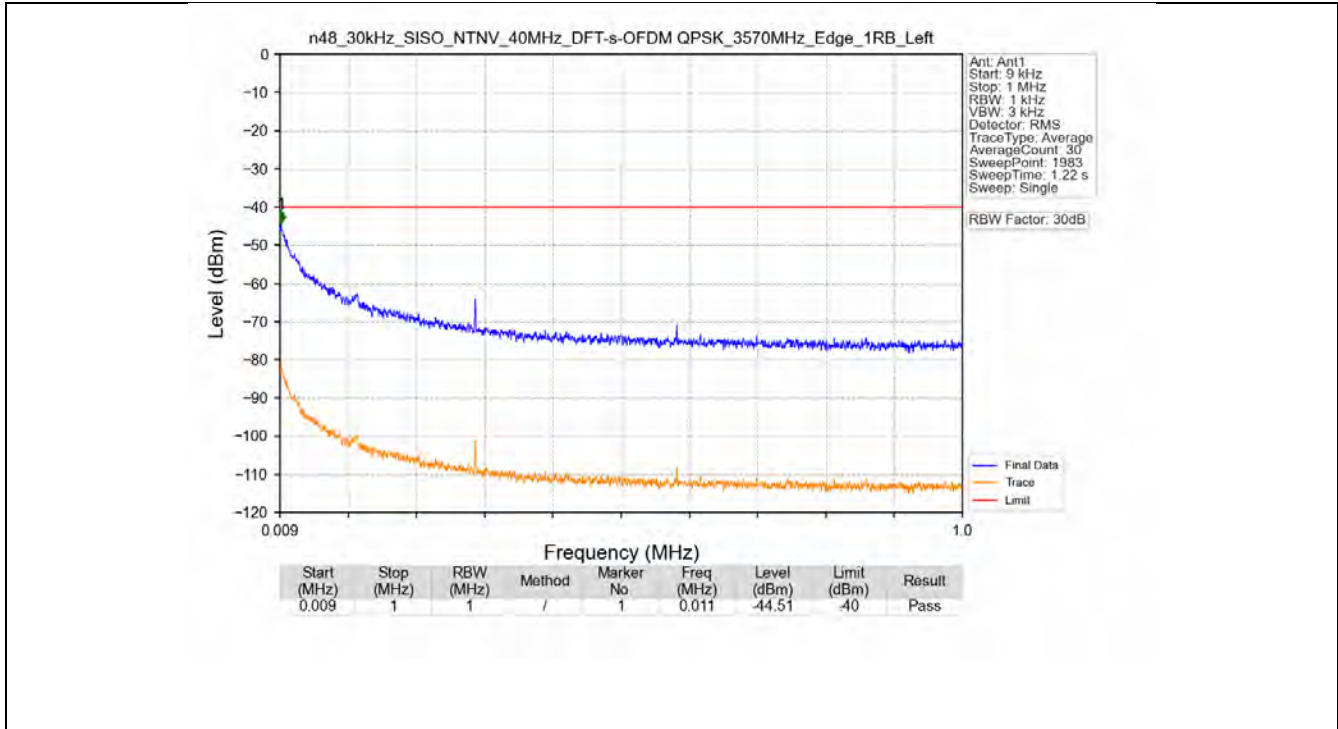


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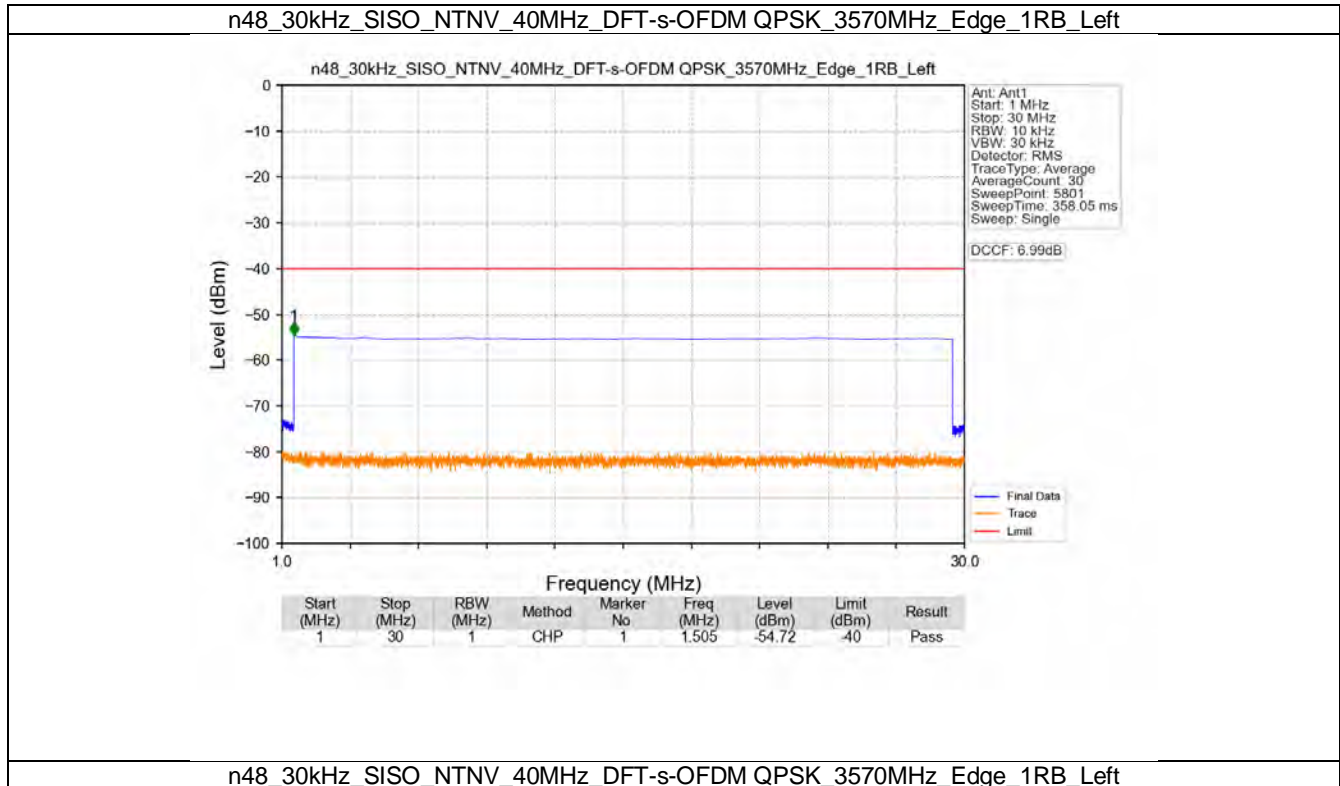


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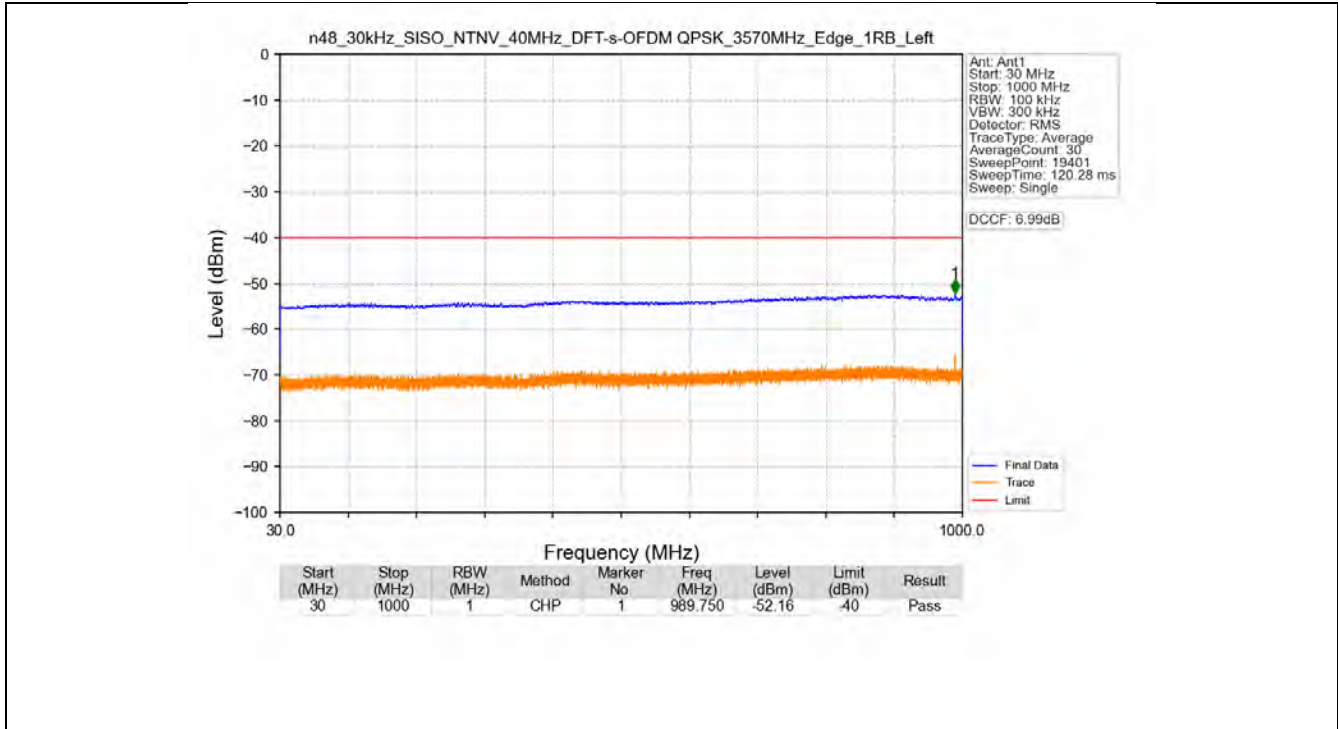


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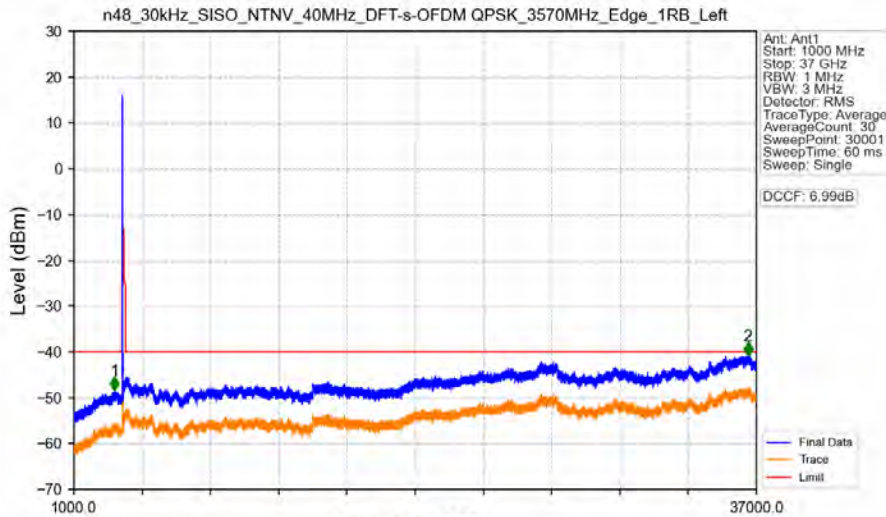
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n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM QPSK_3570MHz_Edge_1RB_Left



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	3549	1	/	1	3146.800	-48.46	-40	Pass
3549	3595	1	/	/	/	/	/	/
3595	37000	1	/	2	36560.800	-40.87	-40	Pass

n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM QPSK_3570MHz_Outer_Full



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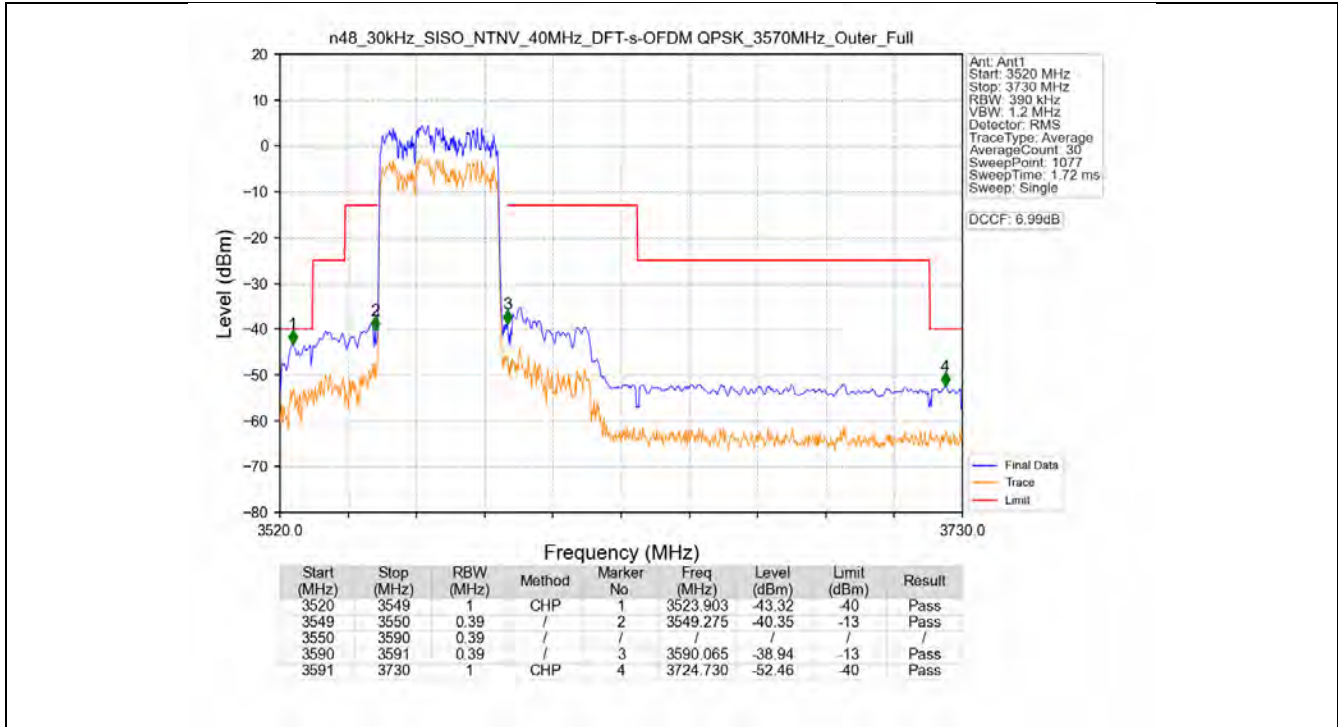


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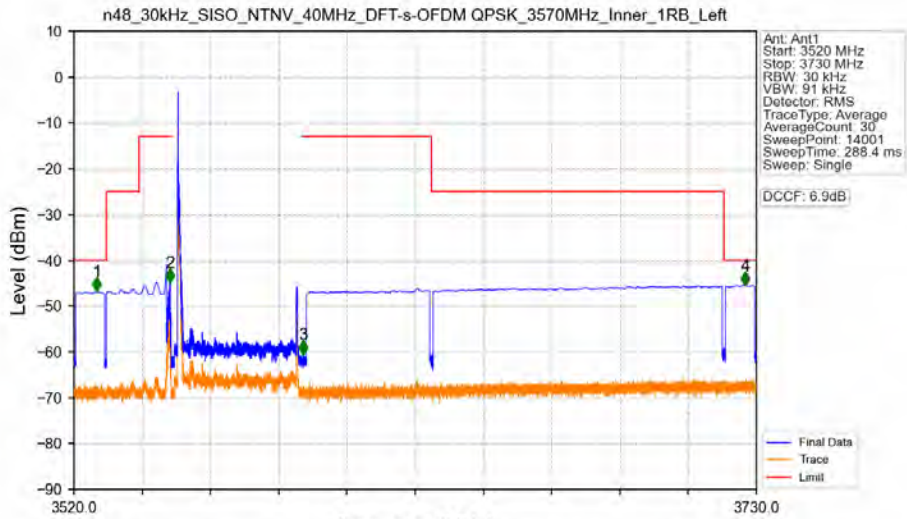
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n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM QPSK_3570MHz_Inner_1RB_Left



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3520	3549	1	CHP	1	3526.990	-46.85	-40	Pass
3549	3550	0.03	/	2	3549.550	-44.84	-13	Pass
3550	3590	0.03	/	/	/	/	/	/
3590	3591	0.03	/	3	3590.485	-60.62	-13	Pass
3591	3730	1	CHP	4	3726.580	-45.51	-40	Pass

n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM QPSK_3624.99MHz_Edge_1RB_Left



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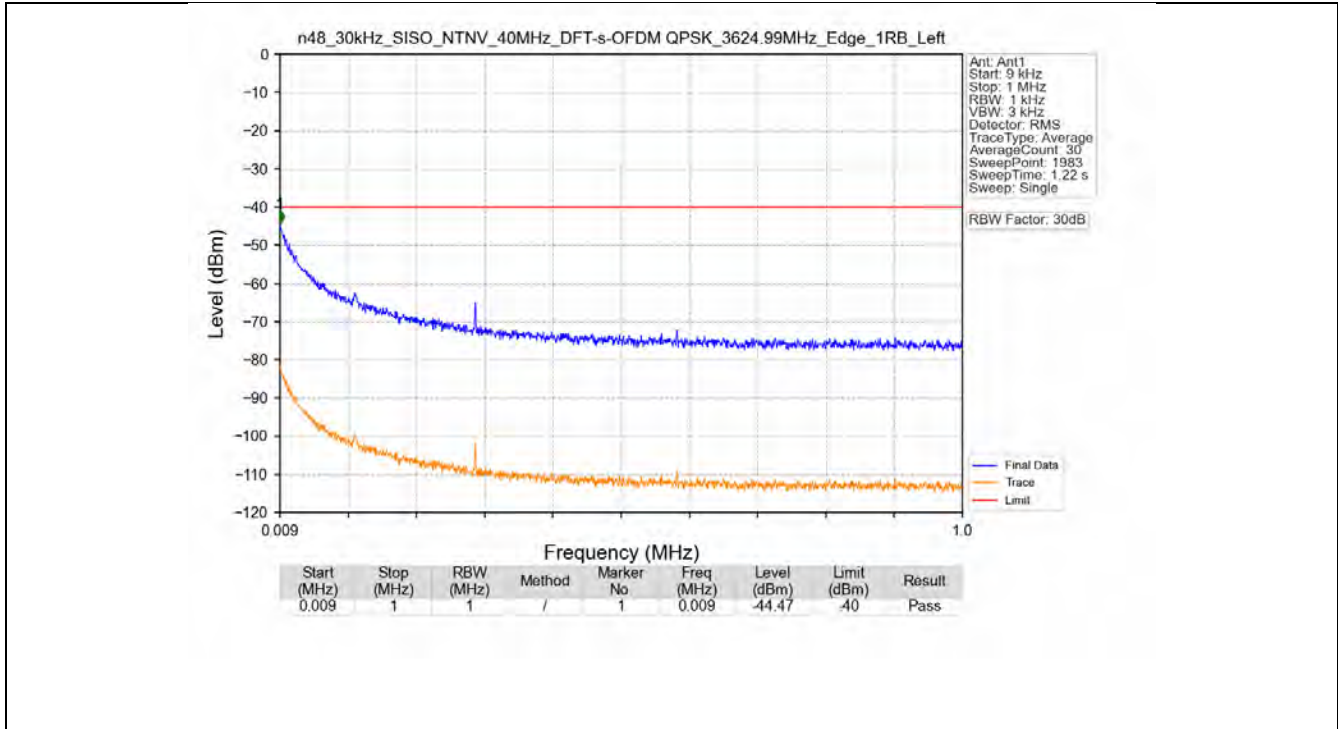


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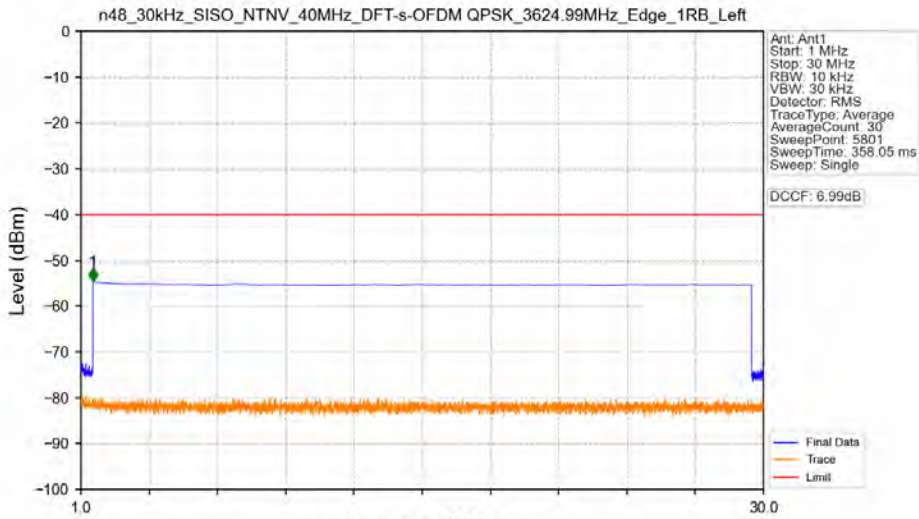
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Shenzhen Branch

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n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_QPSK_3624.99MHz_Edge_1RB_Left



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1	30	1	CHP	1	1.505	-54.66	-40	Pass

n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_QPSK_3624.99MHz_Edge_1RB_Left



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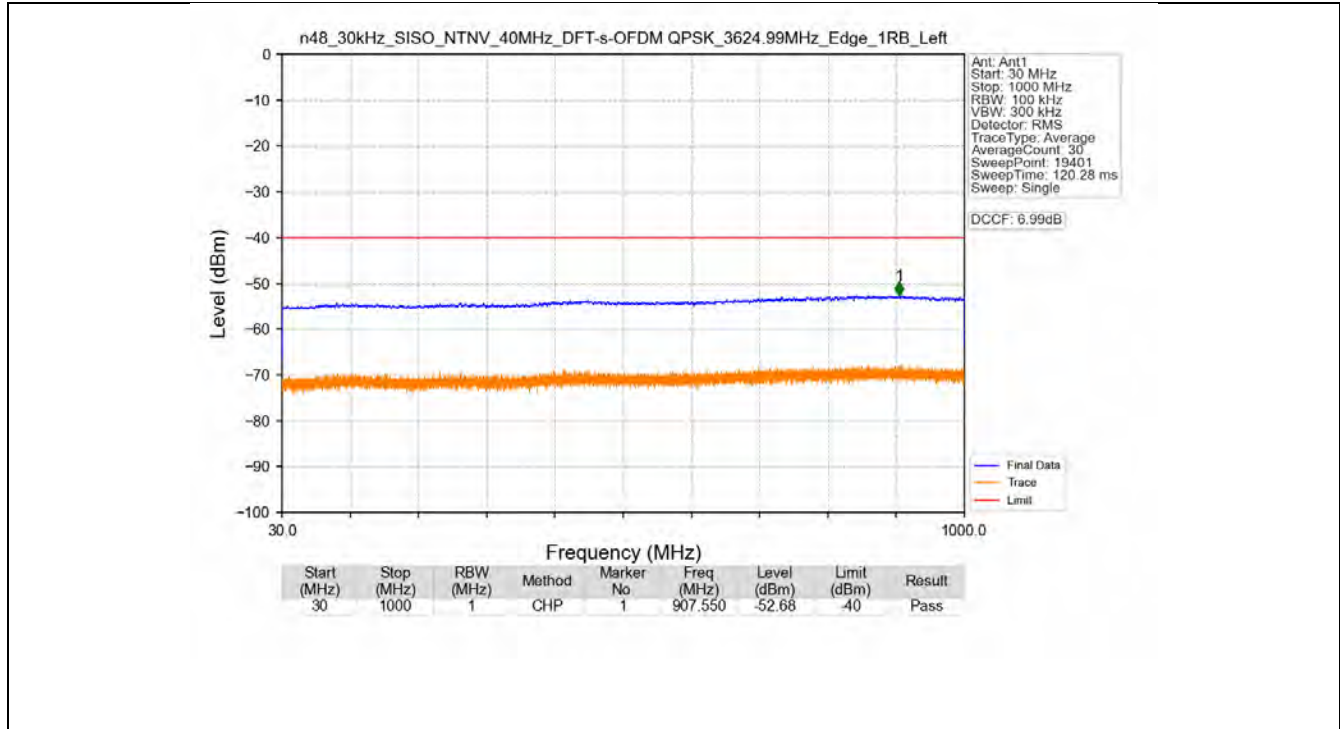


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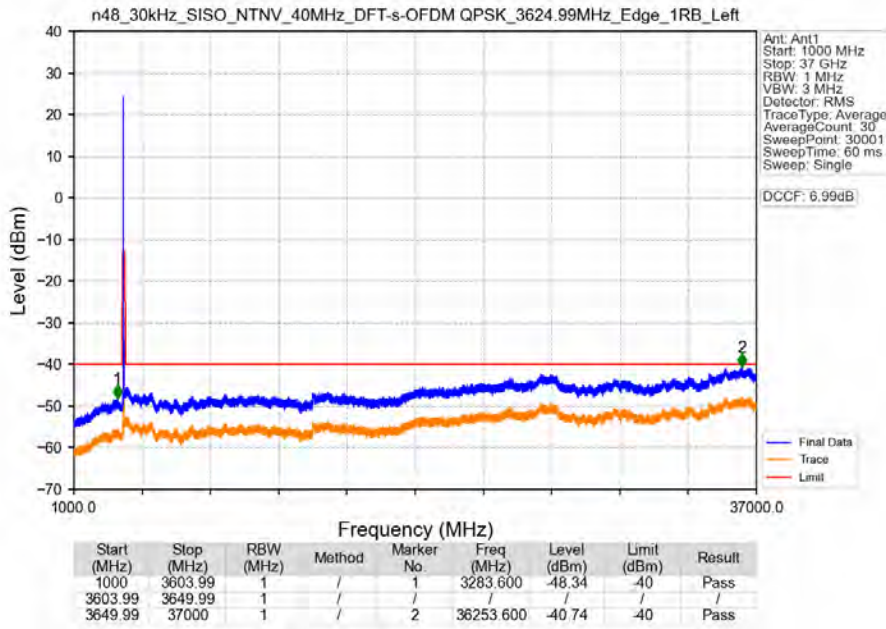
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n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_QPSK_3624.99MHz_Edge_1RB_Left



n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_QPSK_3679.98MHz_Edge_1RB_Right



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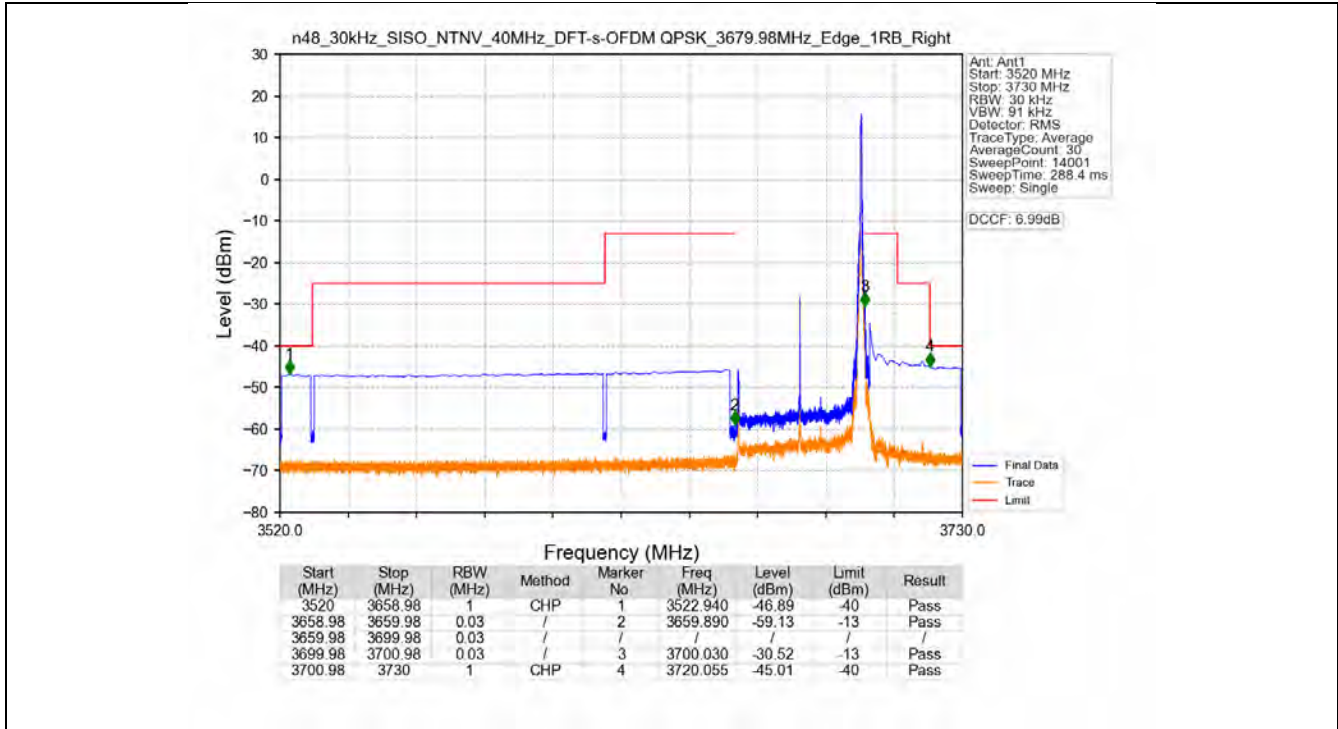


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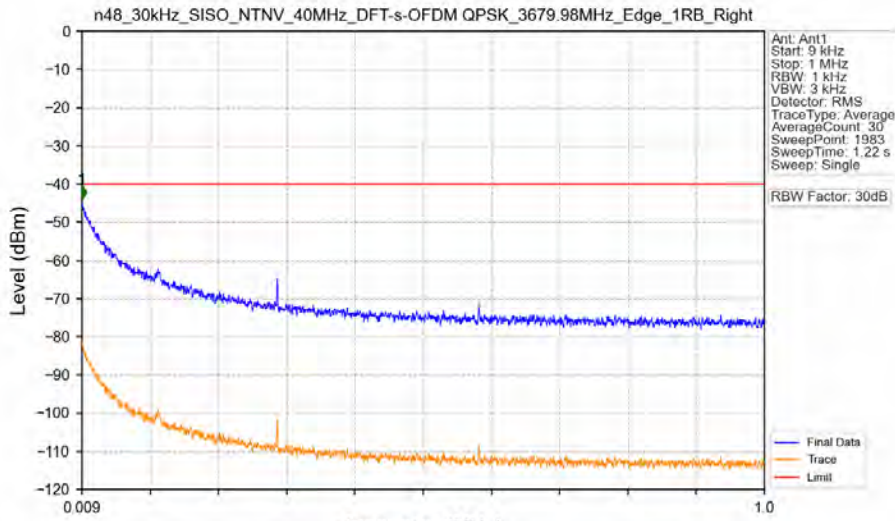
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n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_QPSK_3679.98MHz_Edge_1RB_Right



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
0.009	1	1	/	1	0.009	-44.03	40	Pass

n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_QPSK_3679.98MHz_Edge_1RB_Right



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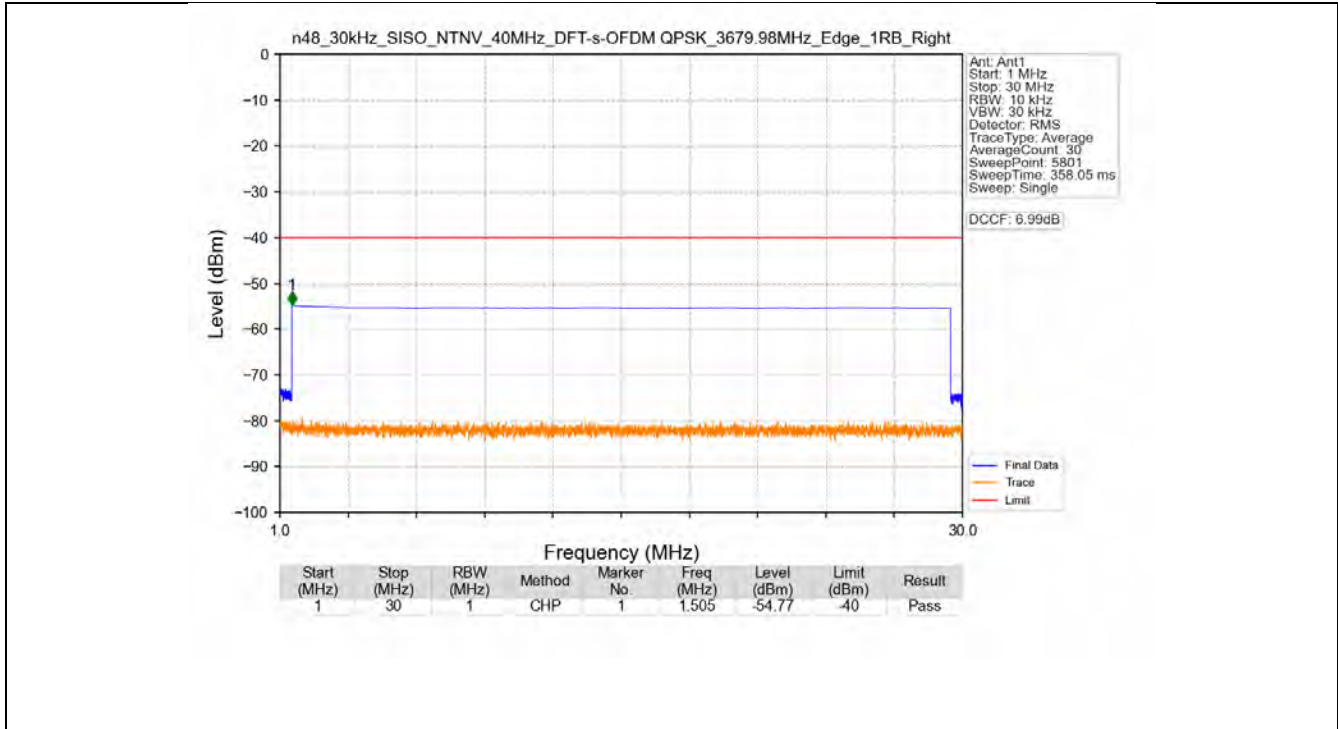


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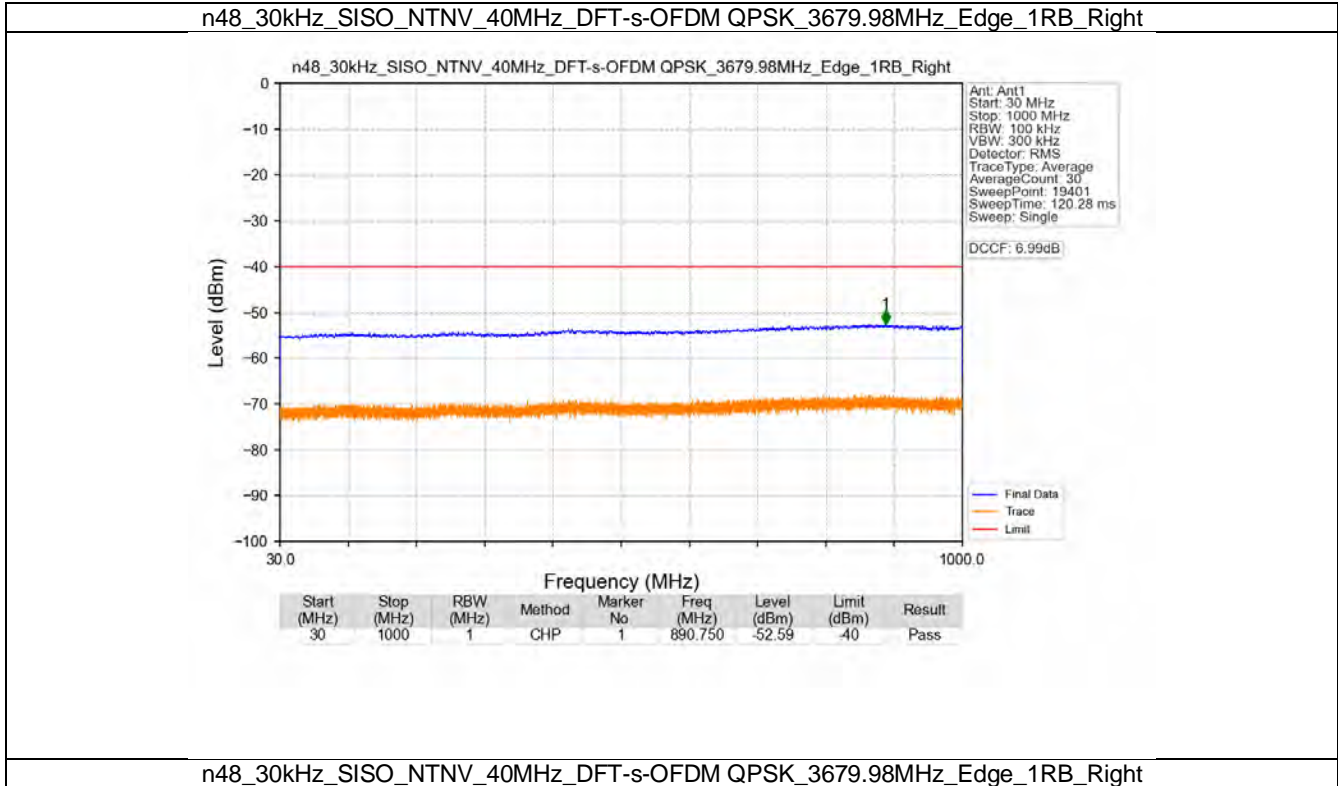


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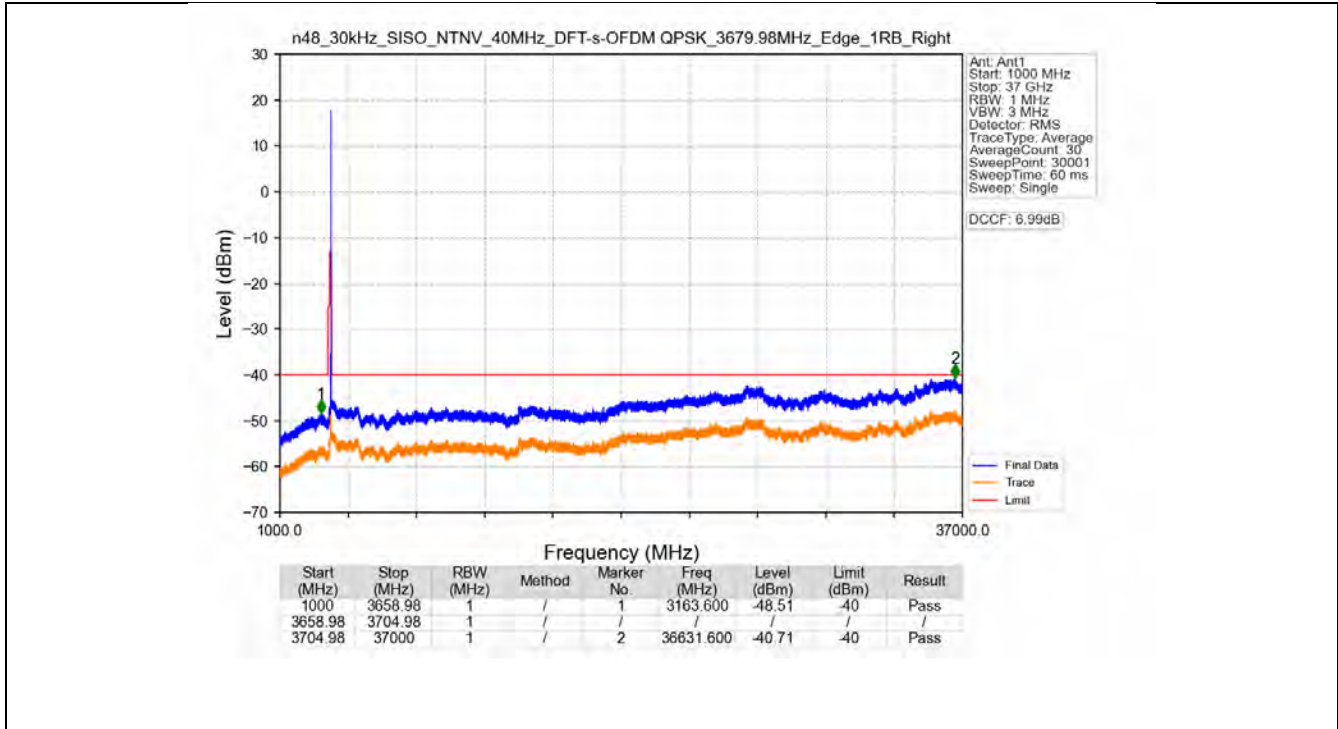


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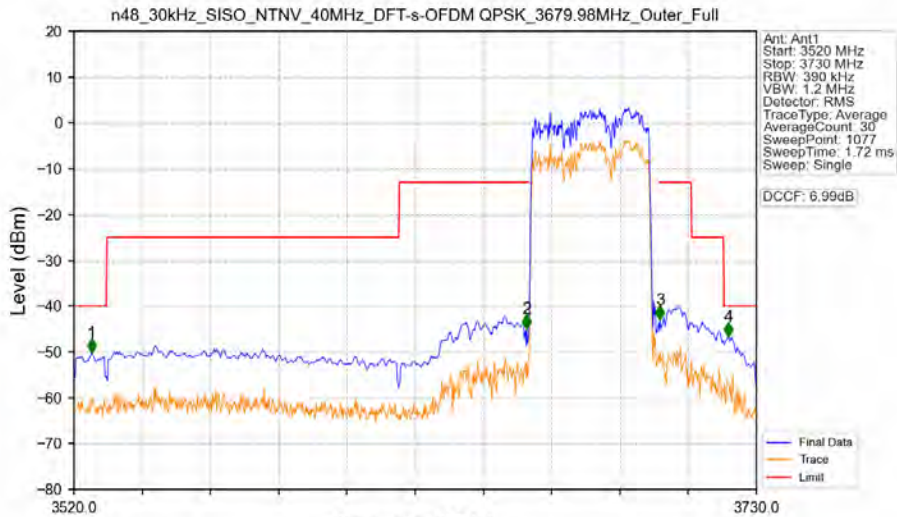
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n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM QPSK_3679.98MHz_Outer_Full



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3520	3658.98	1	CHP	1	3525.465	-50.22	-40	Pass
3658.98	3659.98	0.39	/	2	3659.349	-44.97	-13	Pass
3659.98	3699.98	0.39	/	3	3700.335	-43.01	-13	Pass
3699.98	3700.98	0.39	CHP	4	3721.413	-46.64	-40	Pass

n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM QPSK_3679.98MHz_Inner_1RB_Right



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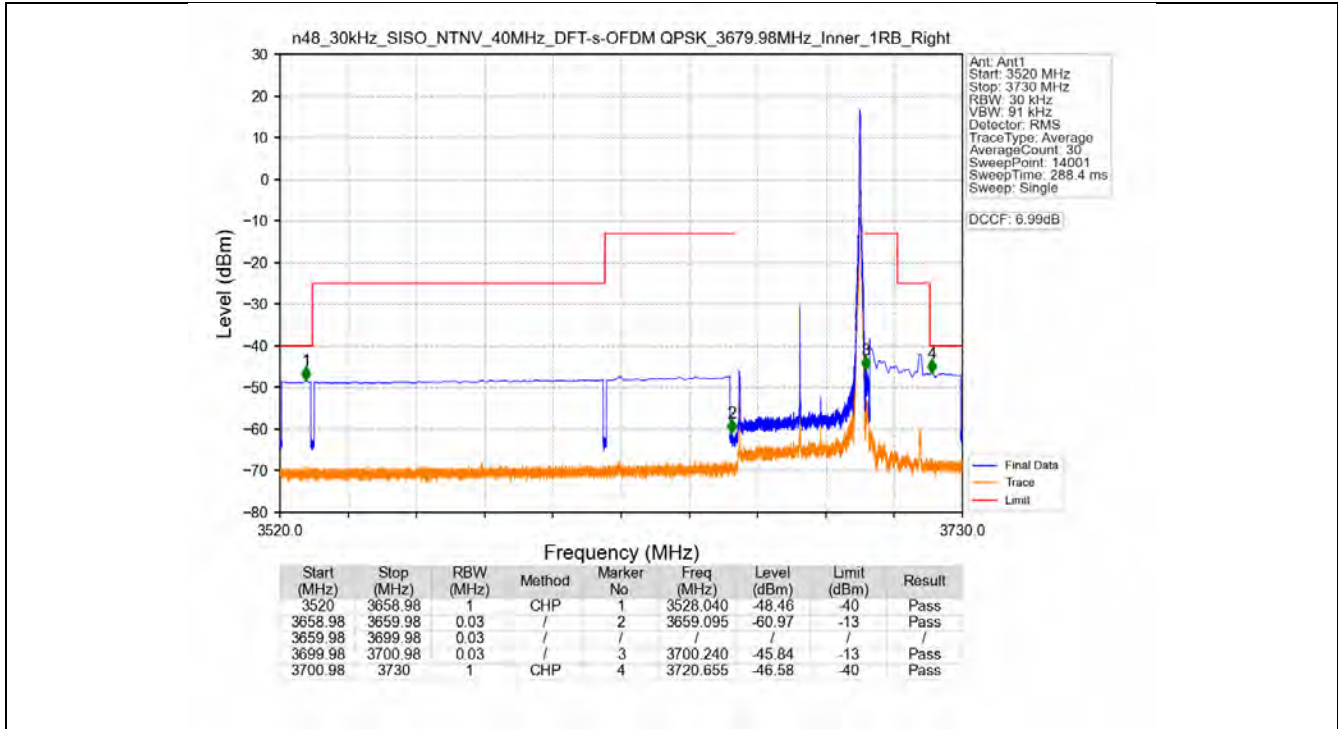


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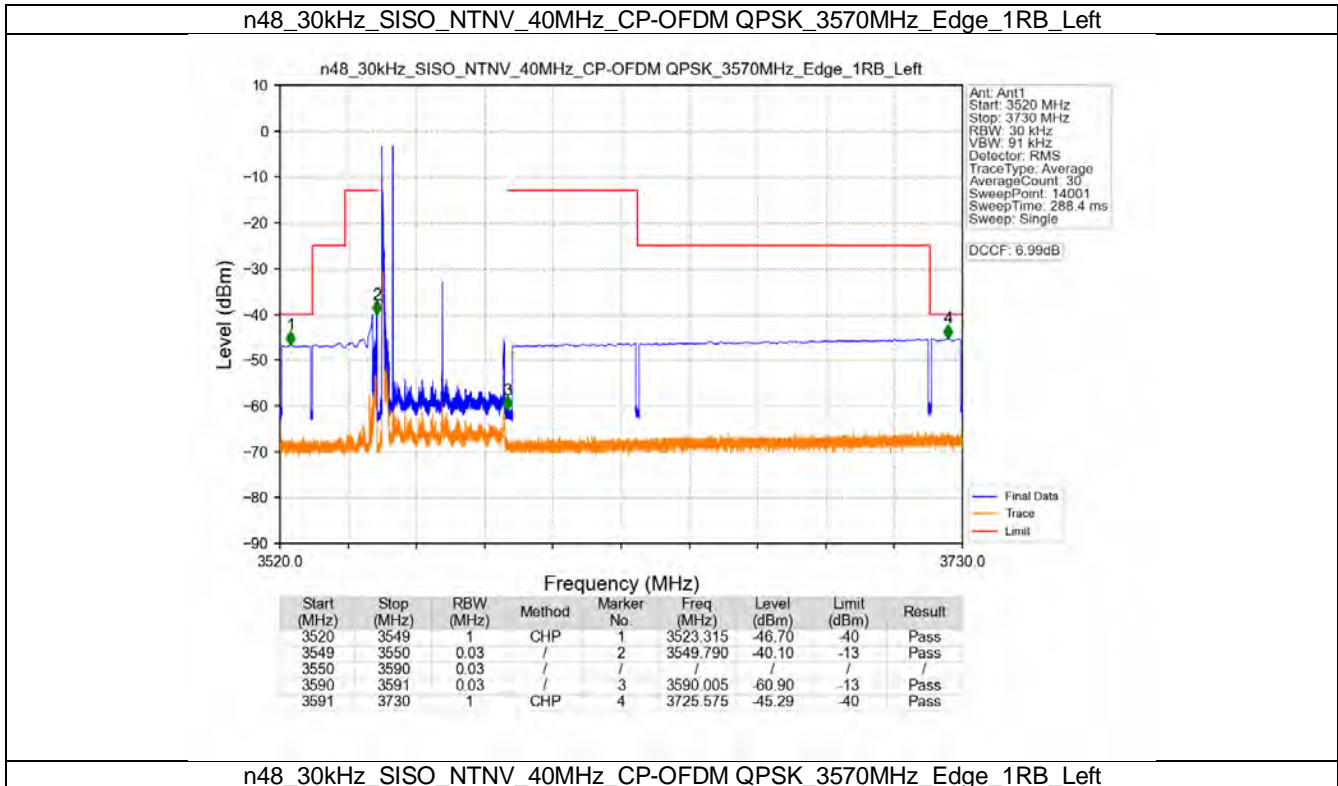


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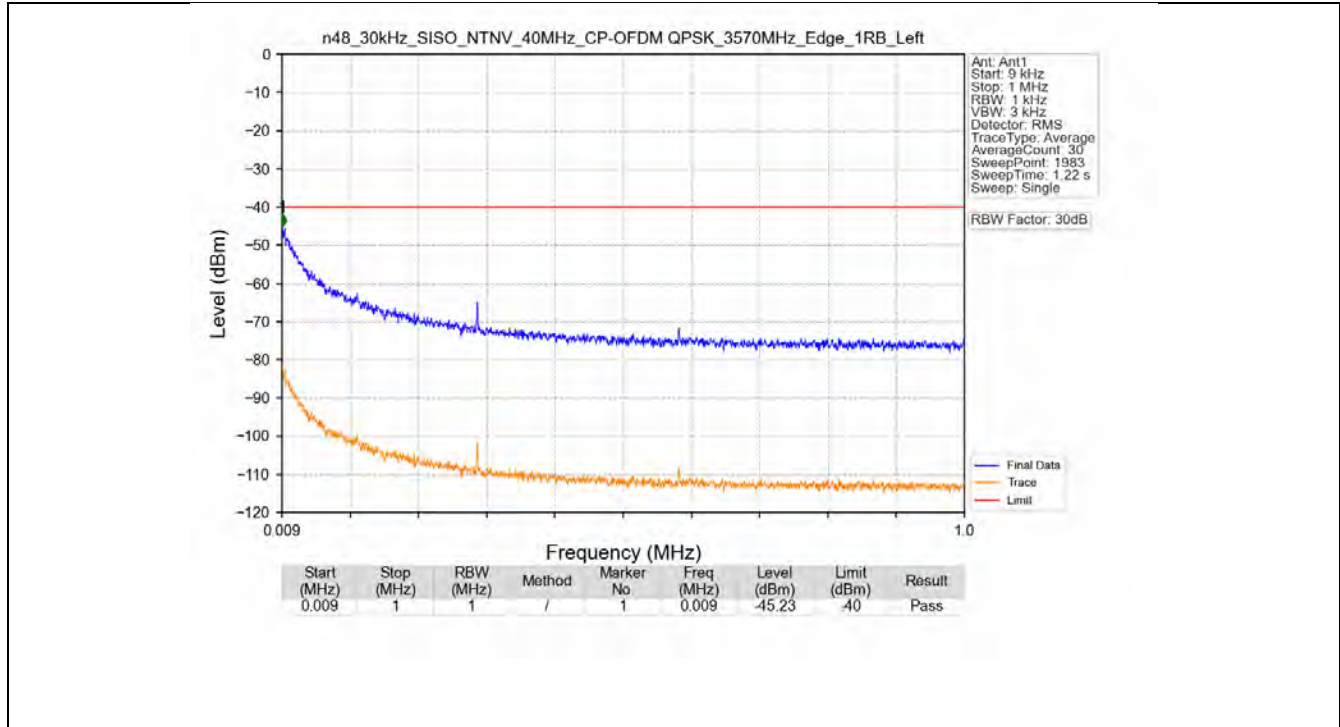


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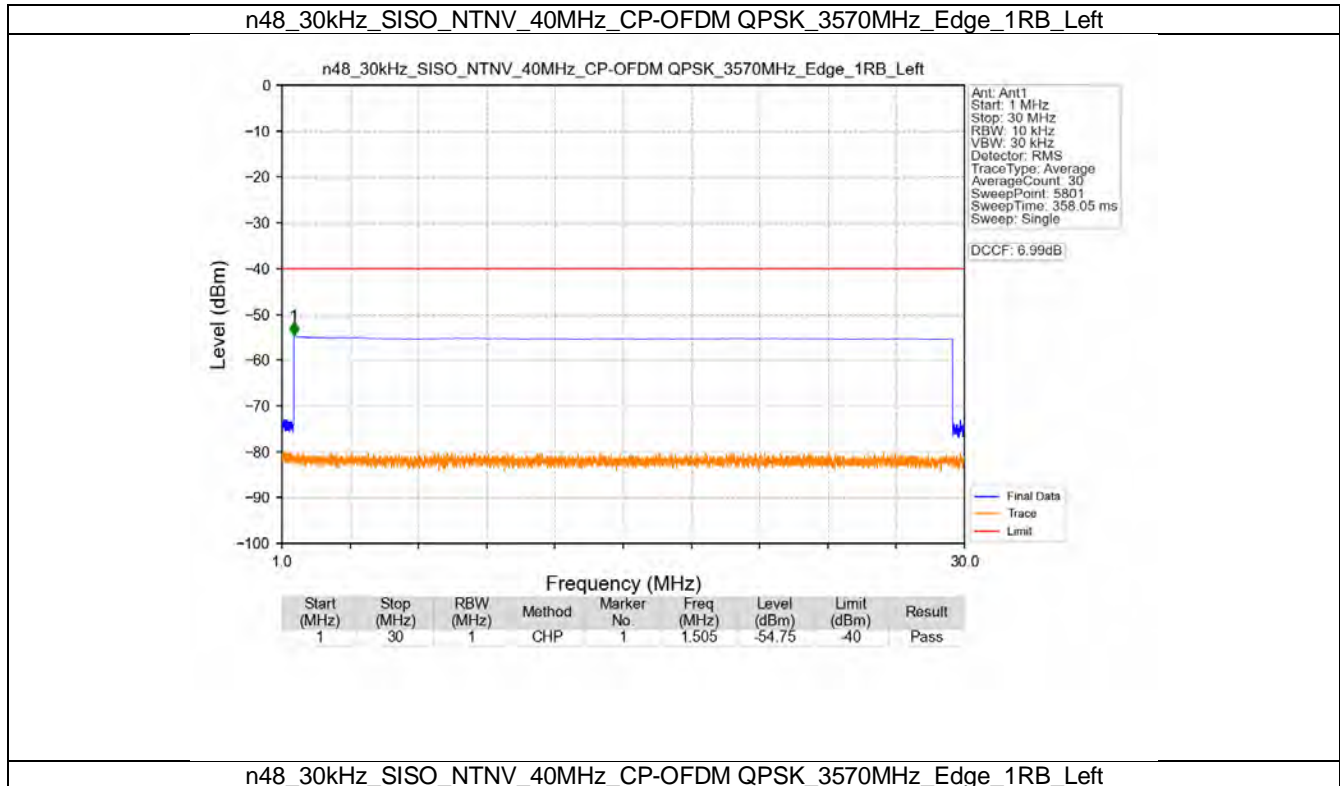


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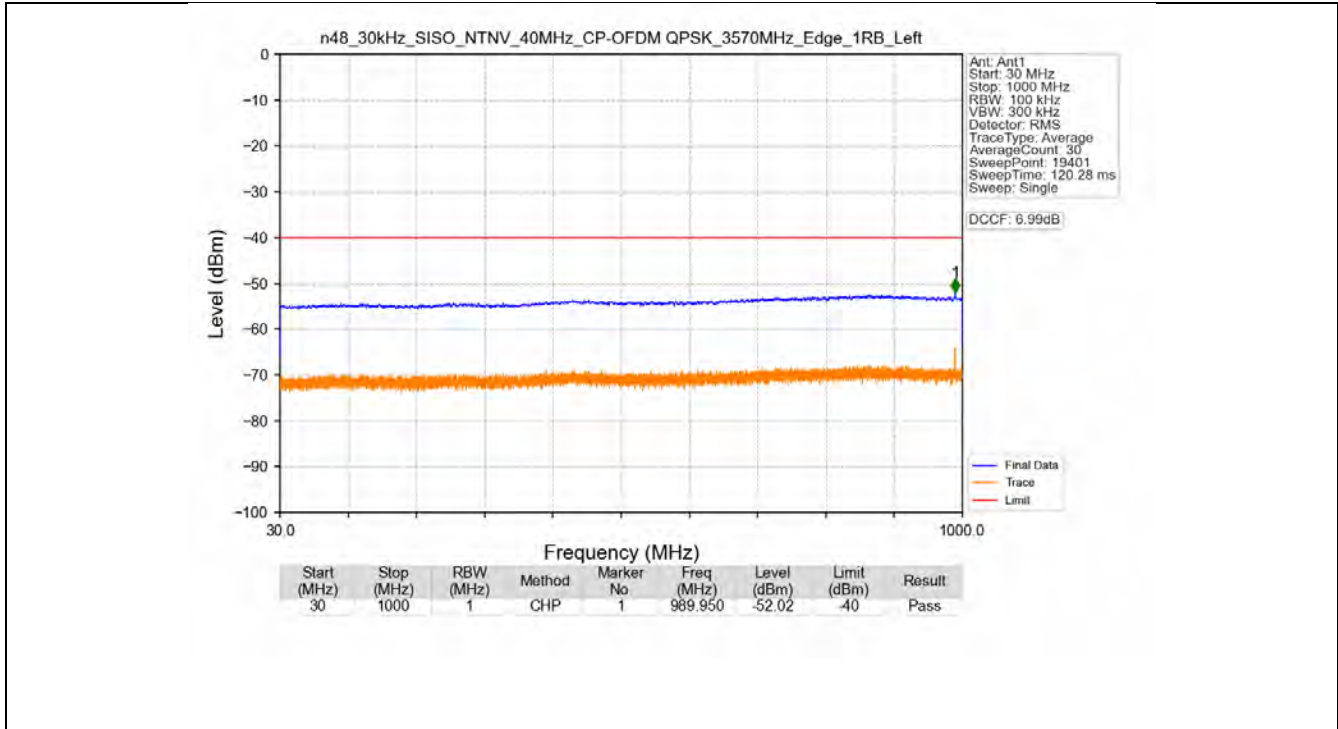


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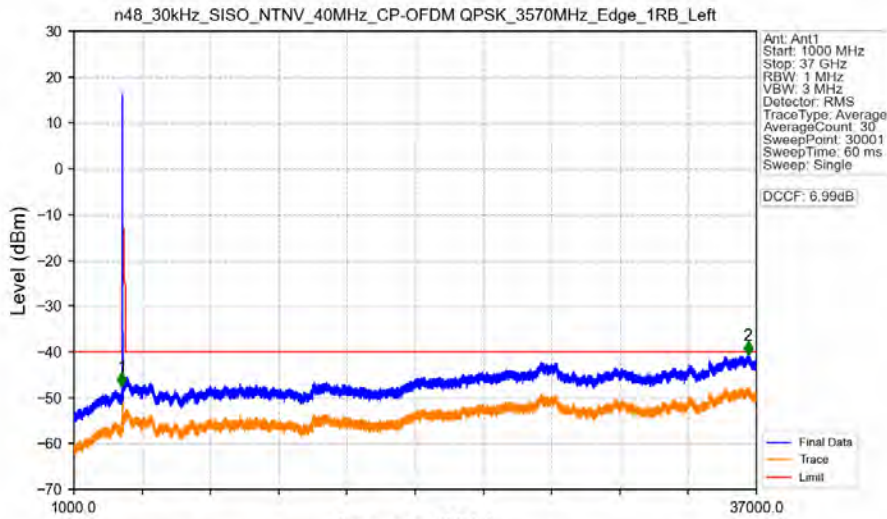
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n48_30kHz_SISO_NTNV_40MHz_CP-OFDM QPSK_3570MHz_Edge_1RB_Left



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	3549	1	/	1	3523.600	-47.66	-40	Pass
3549	3595	1	/	/	/	/	/	/
3595	37000	1	/	2	36558.400	-40.79	-40	Pass

n48_30kHz_SISO_NTNV_40MHz_CP-OFDM QPSK_3570MHz_Outer_Full



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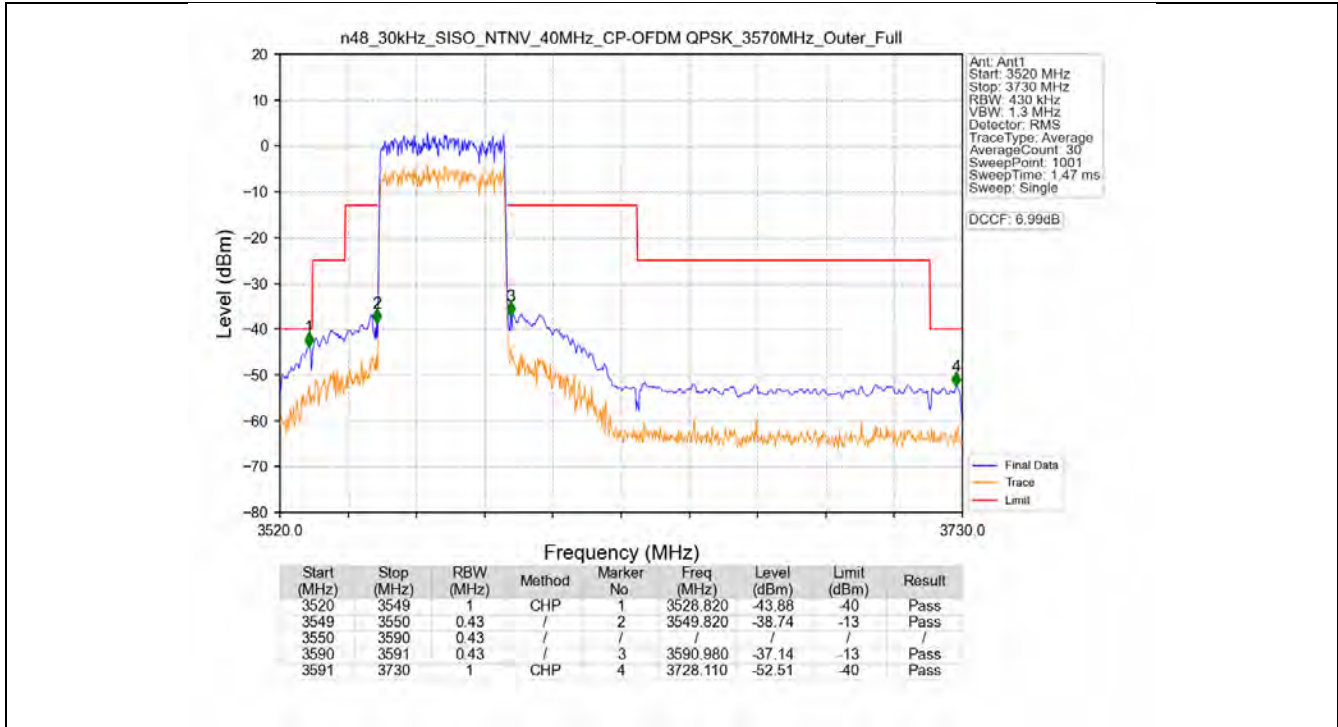


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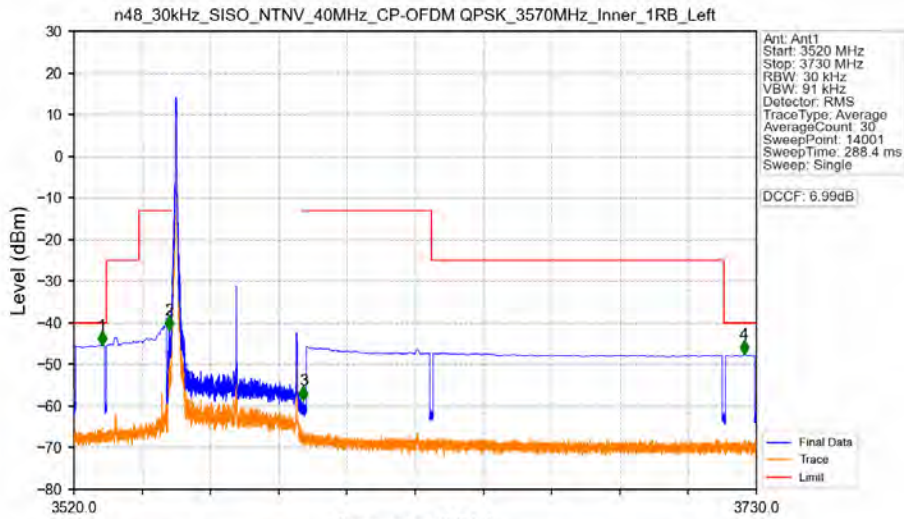
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n48_30kHz_SISO_NTNV_40MHz_CP-OFDM QPSK_3570MHz_Inner_1RB_Left



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3520	3549	1	CHP	1	3528.625	-45.42	-40	Pass
3549	3550	0.03	/	2	3549.325	-41.83	-13	Pass
3550	3590	0.03	/	/	/	/	/	/
3590	3591	0.03	/	3	3590.620	-58.75	-13	Pass
3591	3730	1	CHP	4	3726.160	-47.67	-40	Pass

n48_30kHz_SISO_NTNV_40MHz_CP-OFDM QPSK_3624.99MHz_Edge_1RB_Left



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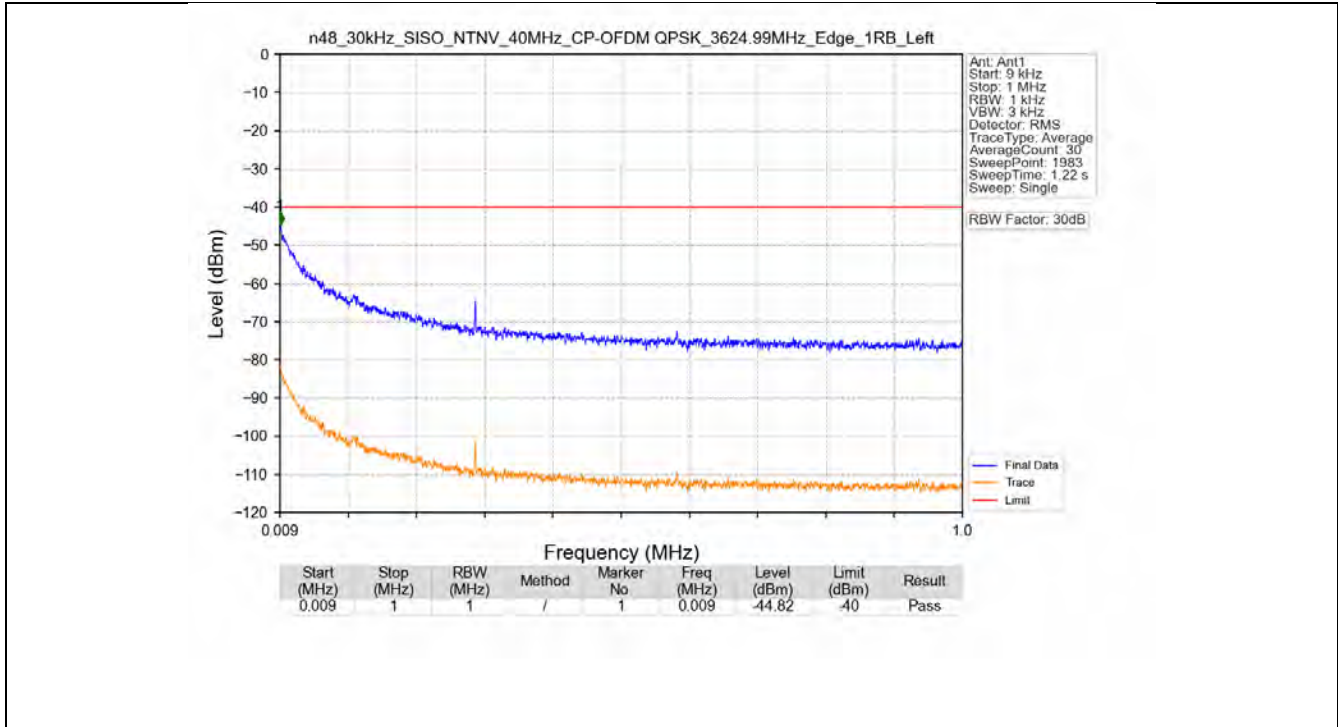


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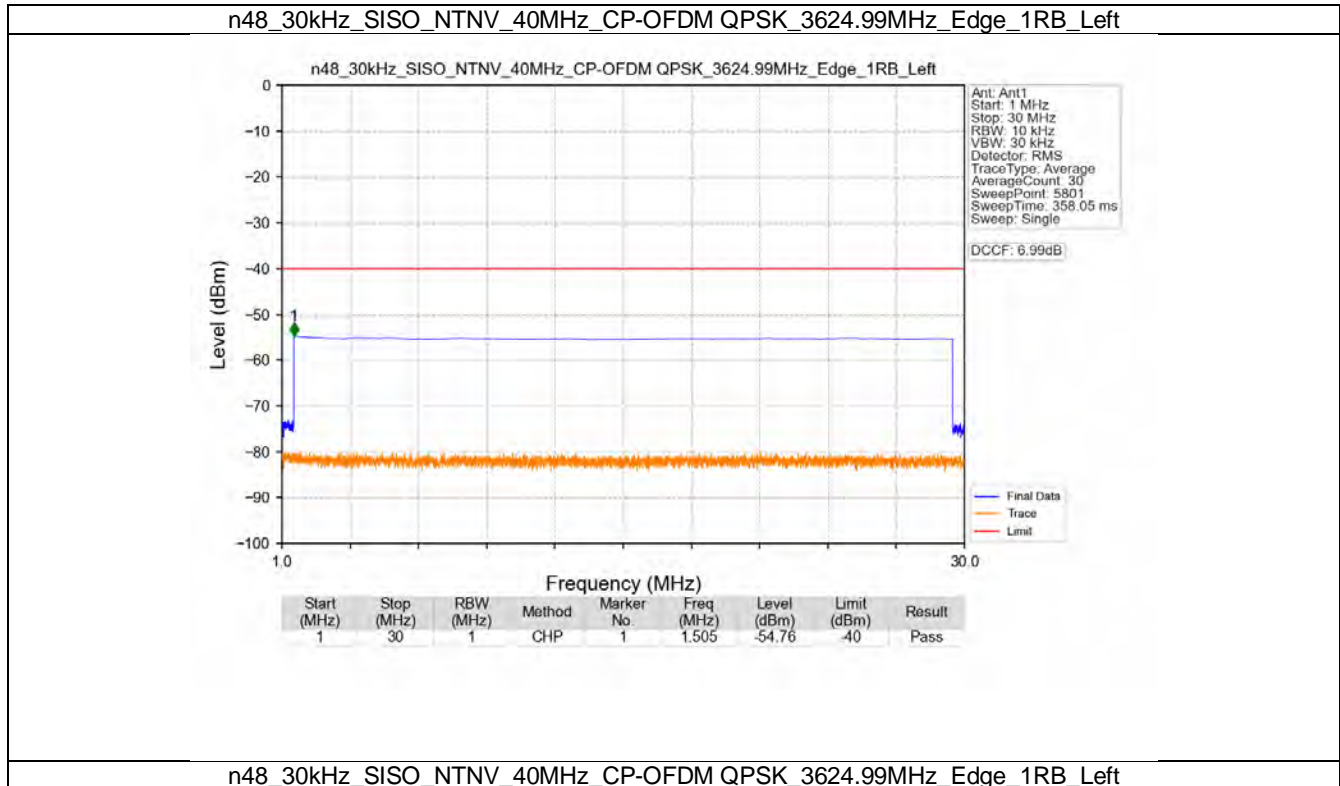


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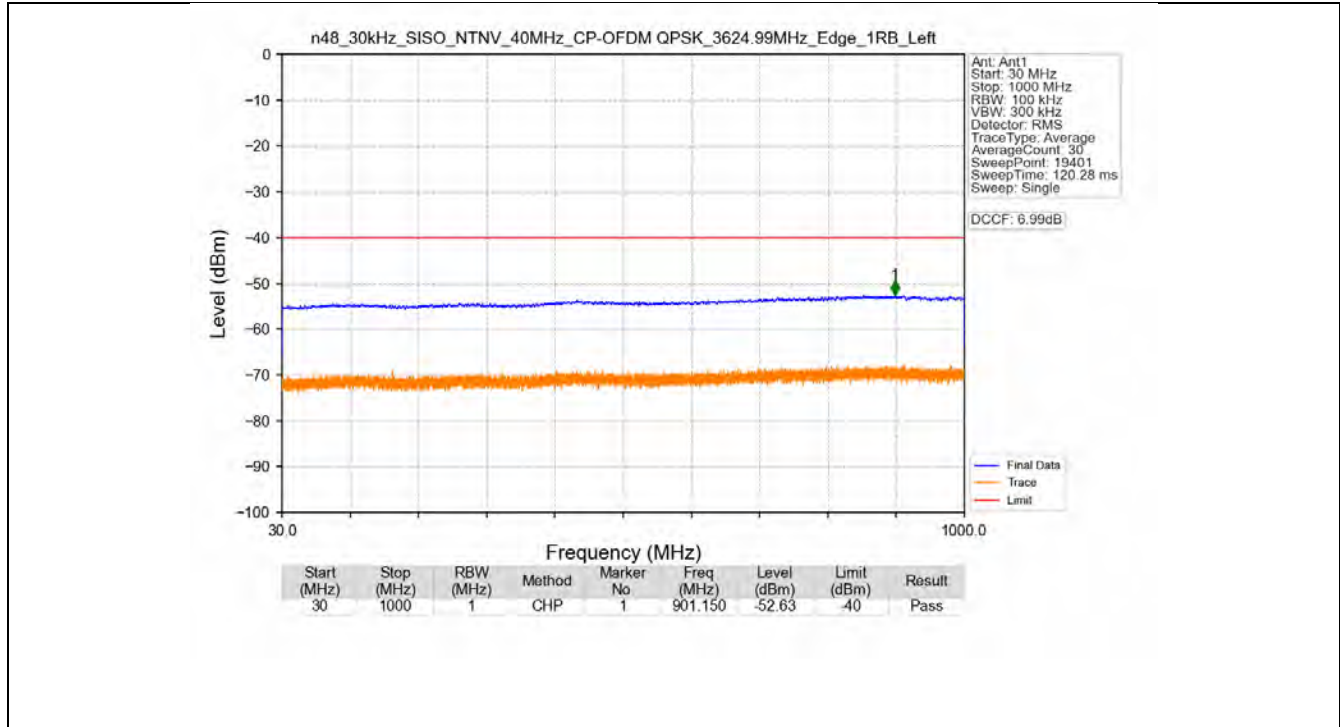


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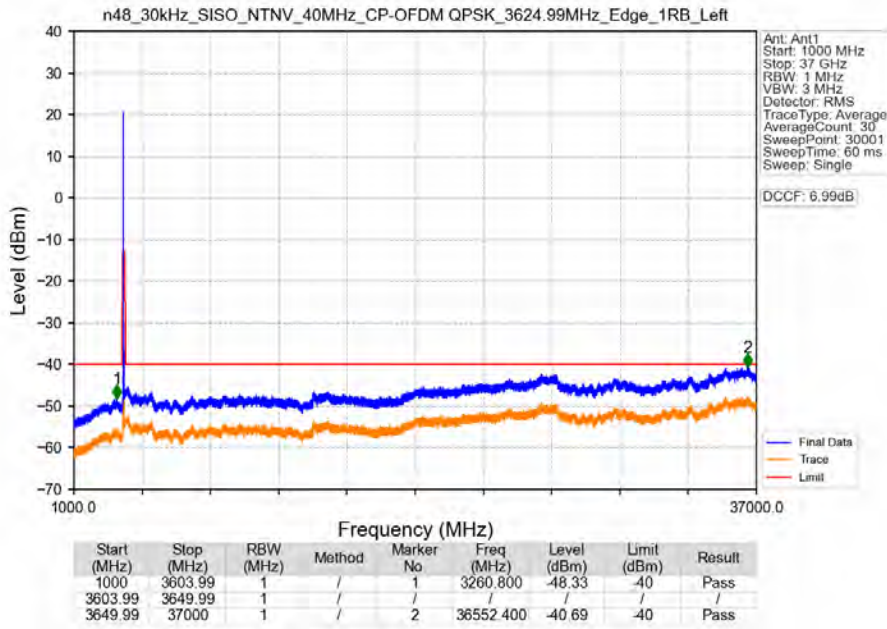
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n48_30kHz_SISO_NTNV_40MHz_CP-OFDM QPSK_3624.99MHz_Edge_1RB_Left



n48_30kHz_SISO_NTNV_40MHz_CP-OFDM QPSK_3679.98MHz_Edge_1RB_Right



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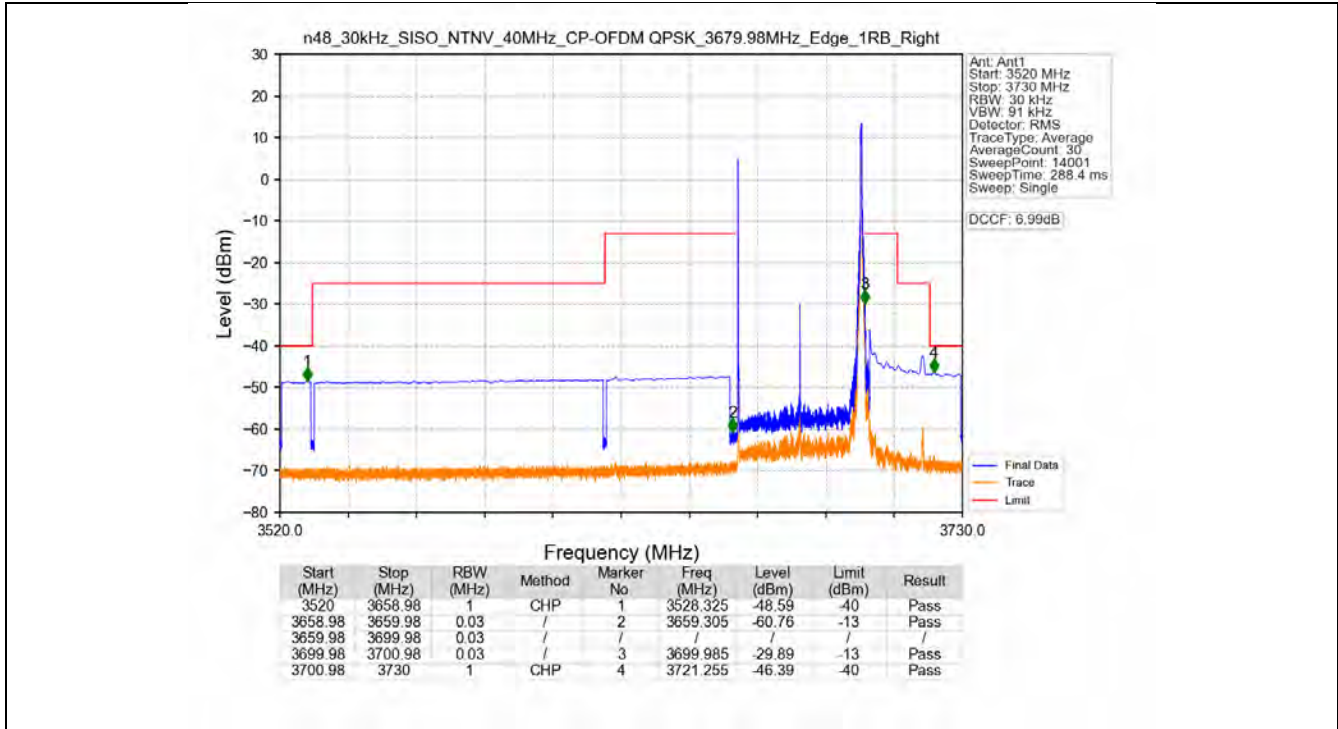


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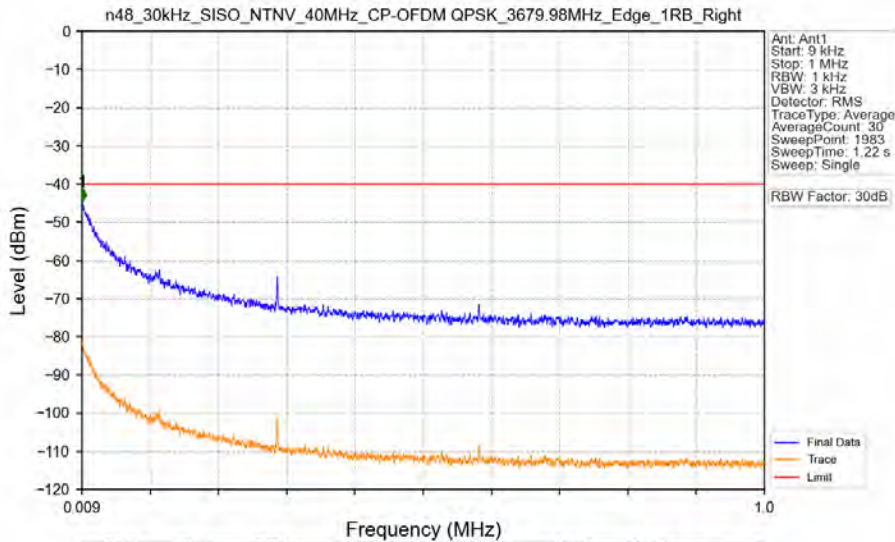
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n48_30kHz_SISO_NTNV_40MHz_CP-OFDM QPSK_3679.98MHz_Edge_1RB_Right



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
0.009	1	1	/	1	0.009	-44.73	40	Pass

n48_30kHz_SISO_NTNV_40MHz_CP-OFDM QPSK_3679.98MHz_Edge_1RB_Right



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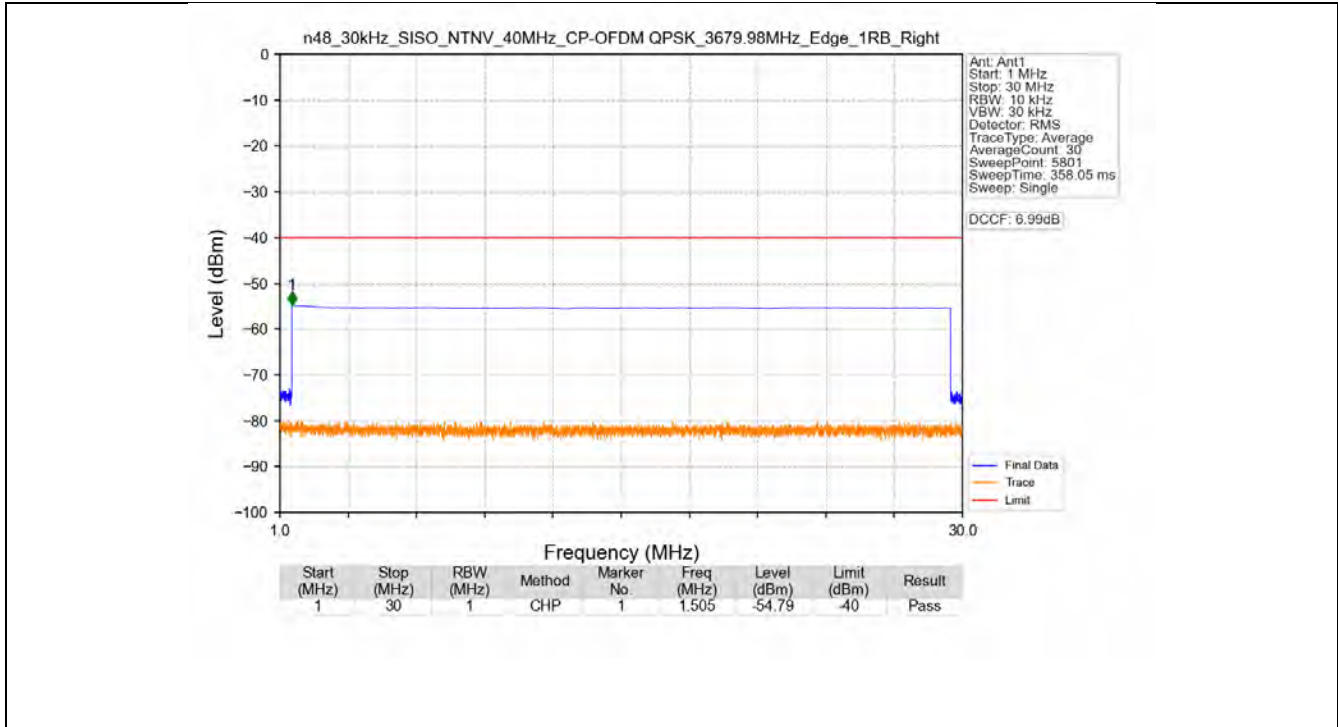


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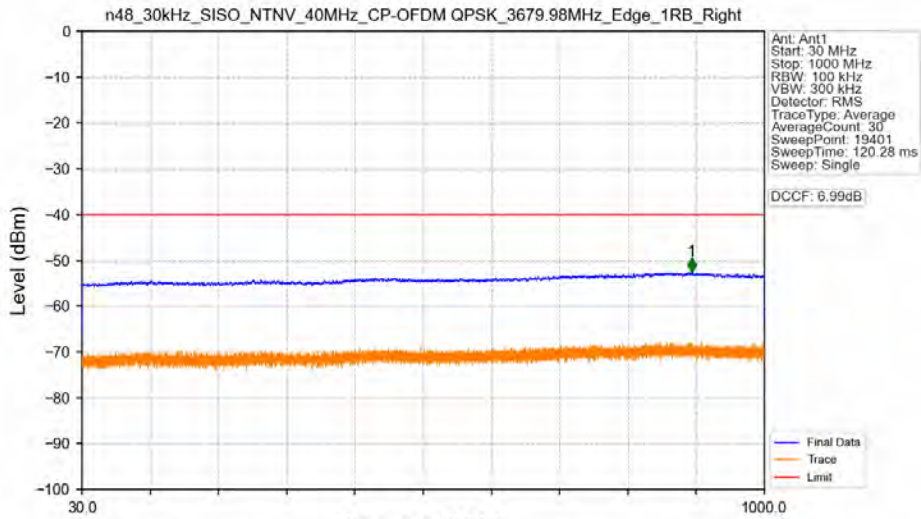
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n48_30kHz_SISO_NTNV_40MHz_CP-OFDM QPSK_3679.98MHz_Edge_1RB_Right



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	1000	1	CHP	1	896.300	-52.48	-40	Pass

n48_30kHz_SISO_NTNV_40MHz_CP-OFDM QPSK_3679.98MHz_Edge_1RB_Right



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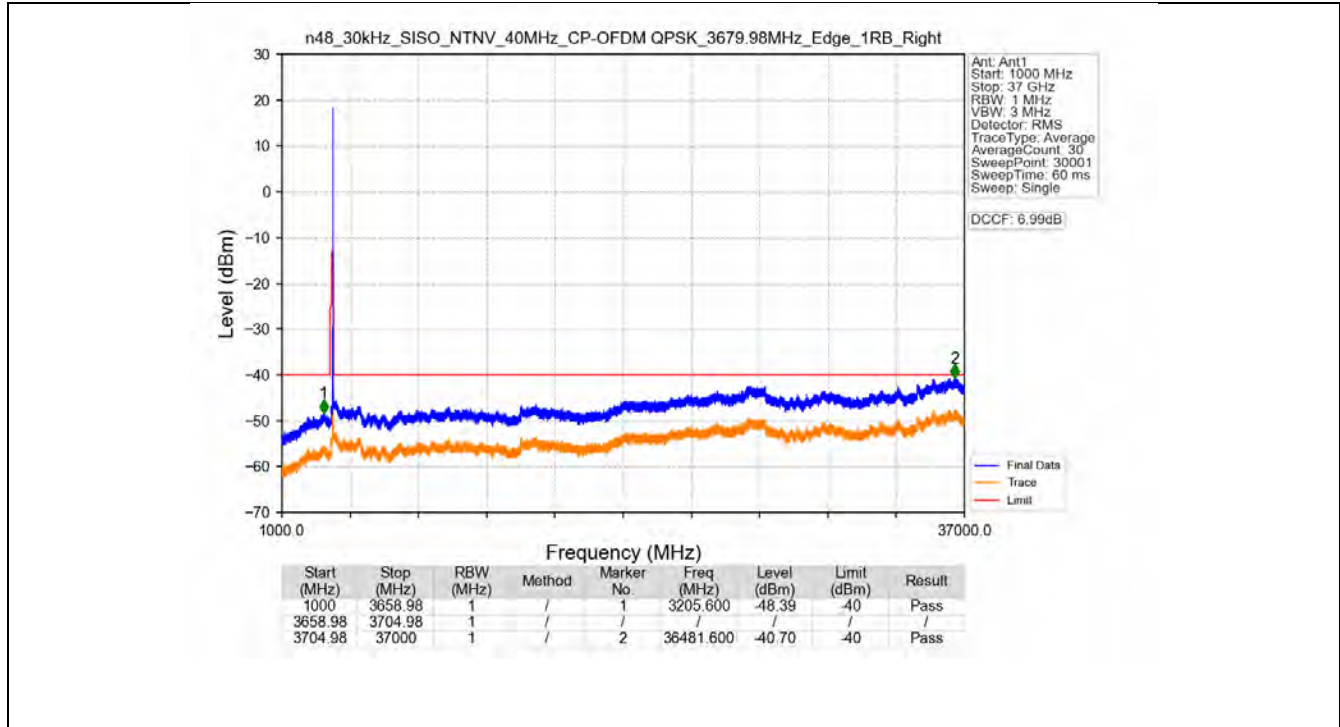


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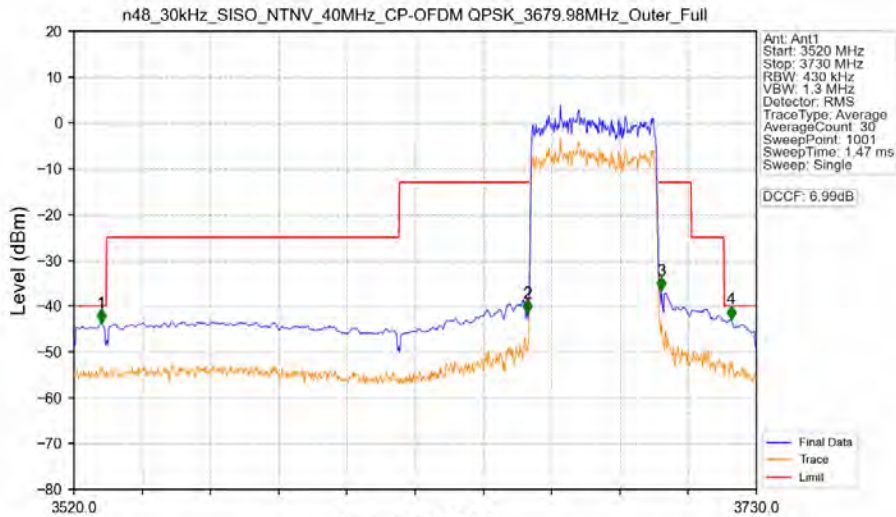
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n48_30kHz_SISO_NTNV_40MHz_CP-OFDM QPSK_3679.98MHz_Outer_Full



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3520	3658.98	1	CHP	1	3528.400	-43.66	-40	Pass
3658.98	3659.98	0.43	/	2	3659.440	-41.50	-13	Pass
3659.98	3699.98	0.43	/	/	/	/	/	/
3699.98	3700.98	0.43	/	3	3700.810	-36.63	-13	Pass
3700.98	3730	1	CHP	4	3722.230	-42.89	-40	Pass

n48_30kHz_SISO_NTNV_40MHz_CP-OFDM QPSK_3679.98MHz_Inner_1RB_Right



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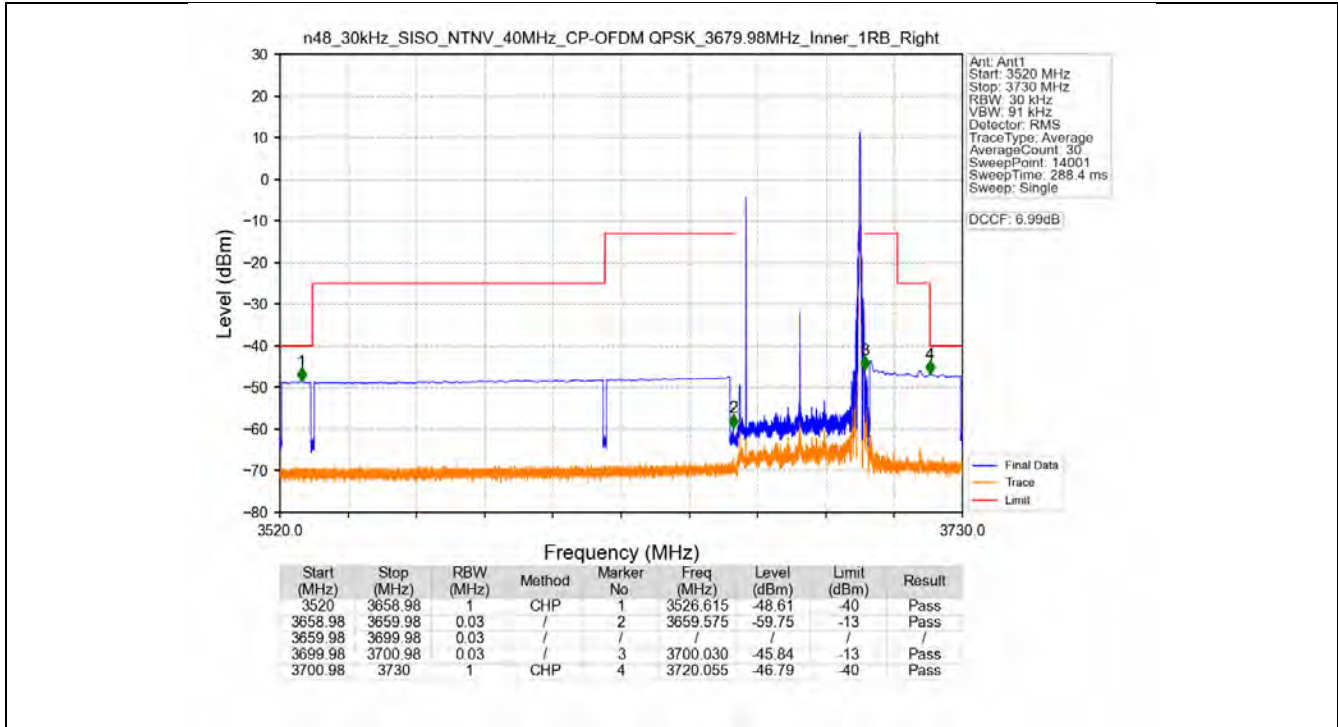


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5.4 30k_MIMO_10MHz_NTNV

5.4.1 Test Result

5G NR n48 SCS=30kHz MIMO 10MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission				Verdict
			Ant1	Ant4	Sum	Limit	
CP-OFDM QPSK	3555	Edge_1RB_Left	Refer To Test Graph				Pass
			Refer To Test Graph				Pass
			Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
			Refer To Test Graph				Pass
			Refer To Test Graph				Pass
	3694.98	Inner_1RB_Left	Refer To Test Graph				Pass
			Refer To Test Graph				Pass
			Refer To Test Graph				Pass
		Edge_1RB_Right	Refer To Test Graph				Pass
			Refer To Test Graph				Pass
			Refer To Test Graph				Pass
	Outer_Full	Refer To Test Graph				Pass	
		Refer To Test Graph				Pass	
		Refer To Test Graph				Pass	
	Inner_1RB_Right	Refer To Test Graph				Pass	
Refer To Test Graph				Pass			



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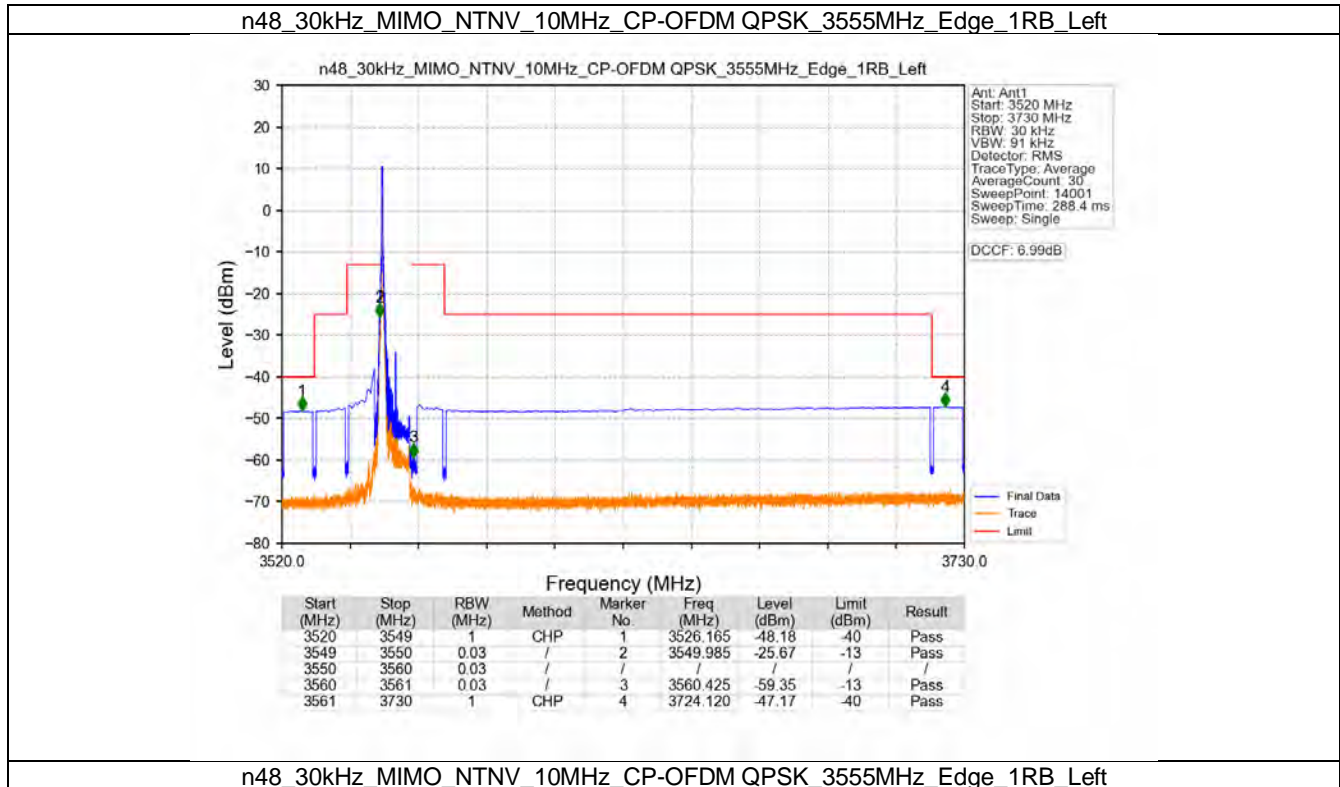
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5.4.2 Test Graph



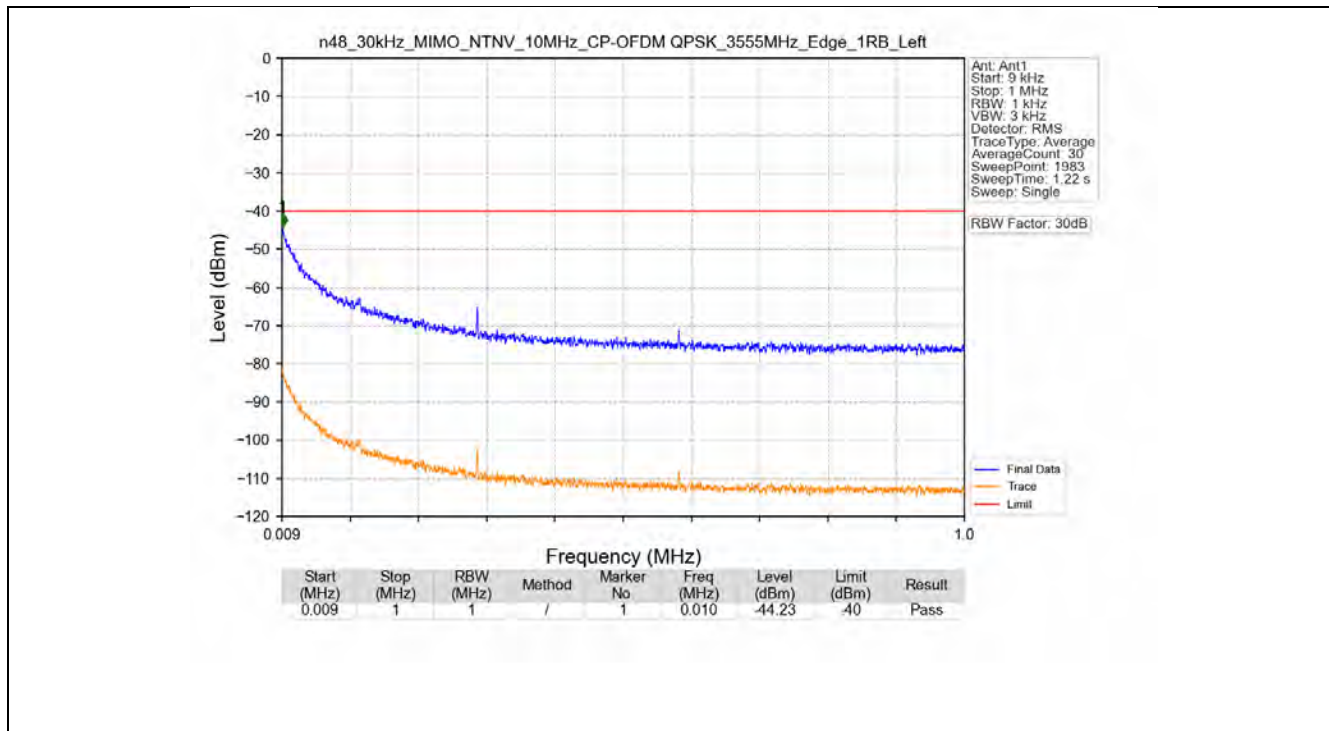
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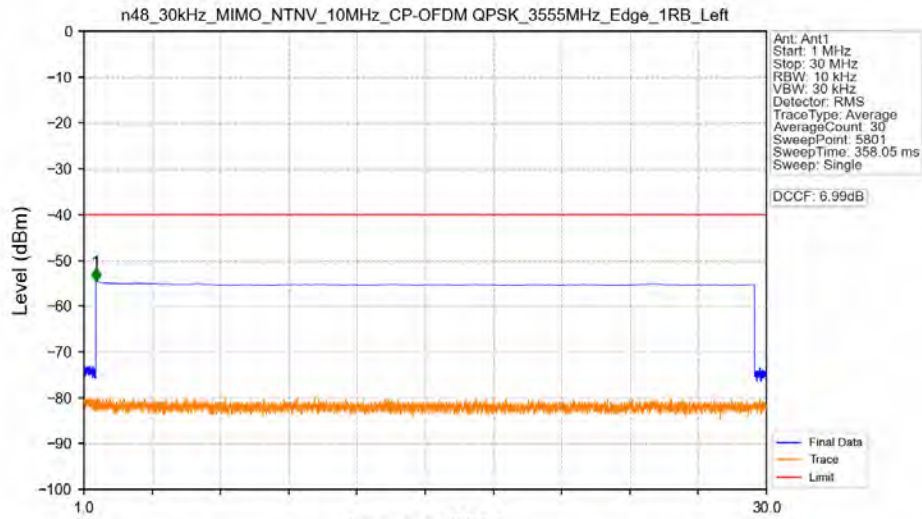
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n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM QPSK_3555MHz_Edge_1RB_Left



n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM QPSK_3555MHz_Edge_1RB_Left



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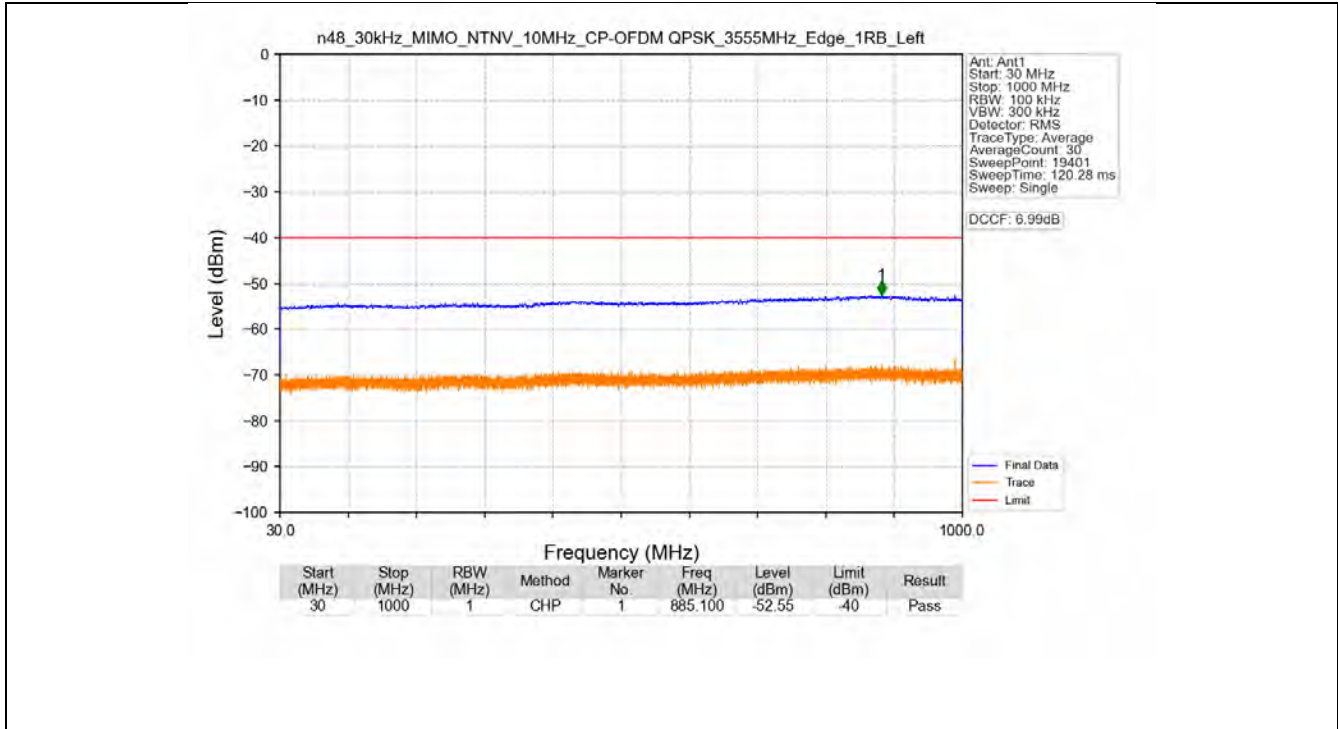


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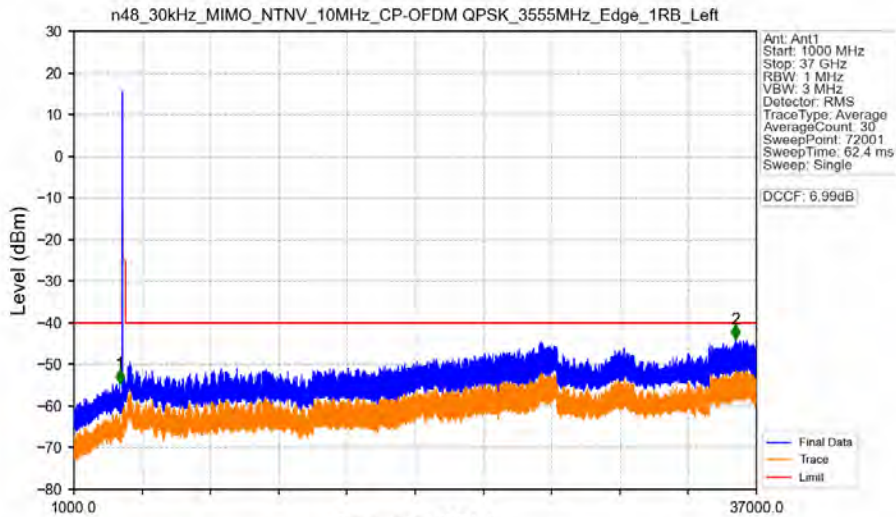
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n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM QPSK_3555MHz_Edge_1RB_Left



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	3549	1	/	1	3409.500	-54.57	-40	Pass
3549	3565	1	/	/	/	/	/	/
3565	37000	1	/	2	35901.000	-43.93	-40	Pass

n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM QPSK_3555MHz_Edge_1RB_Left



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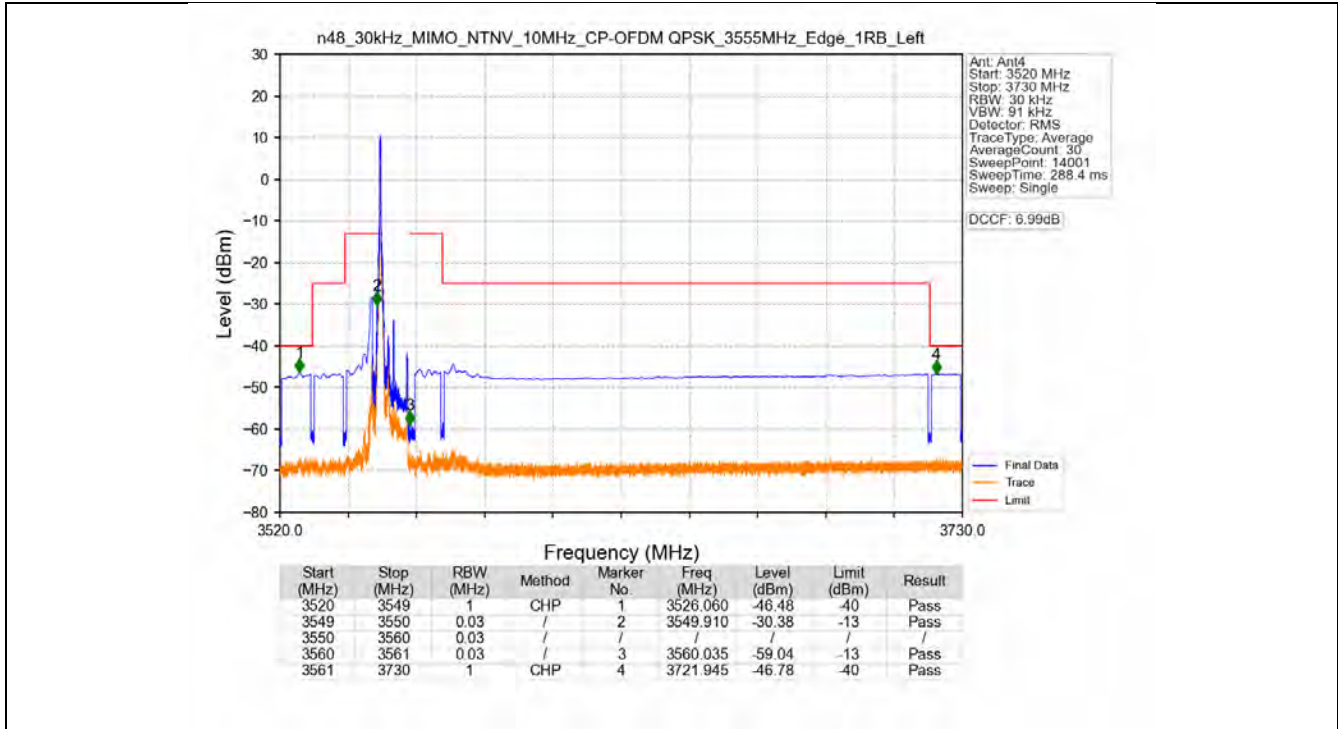


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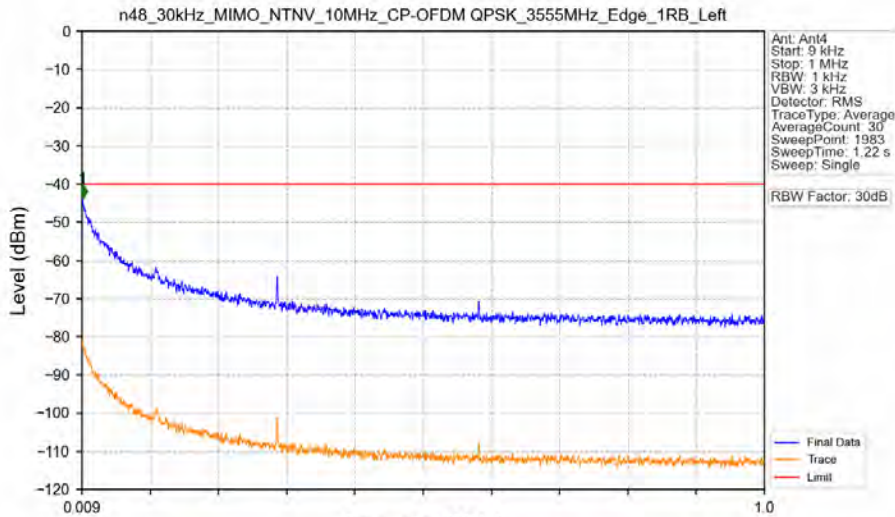
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n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM QPSK_3555MHz_Edge_1RB_Left



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
0.009	1	1	/	1	0.010	-43.76	40	Pass

n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM QPSK_3555MHz_Edge_1RB_Left



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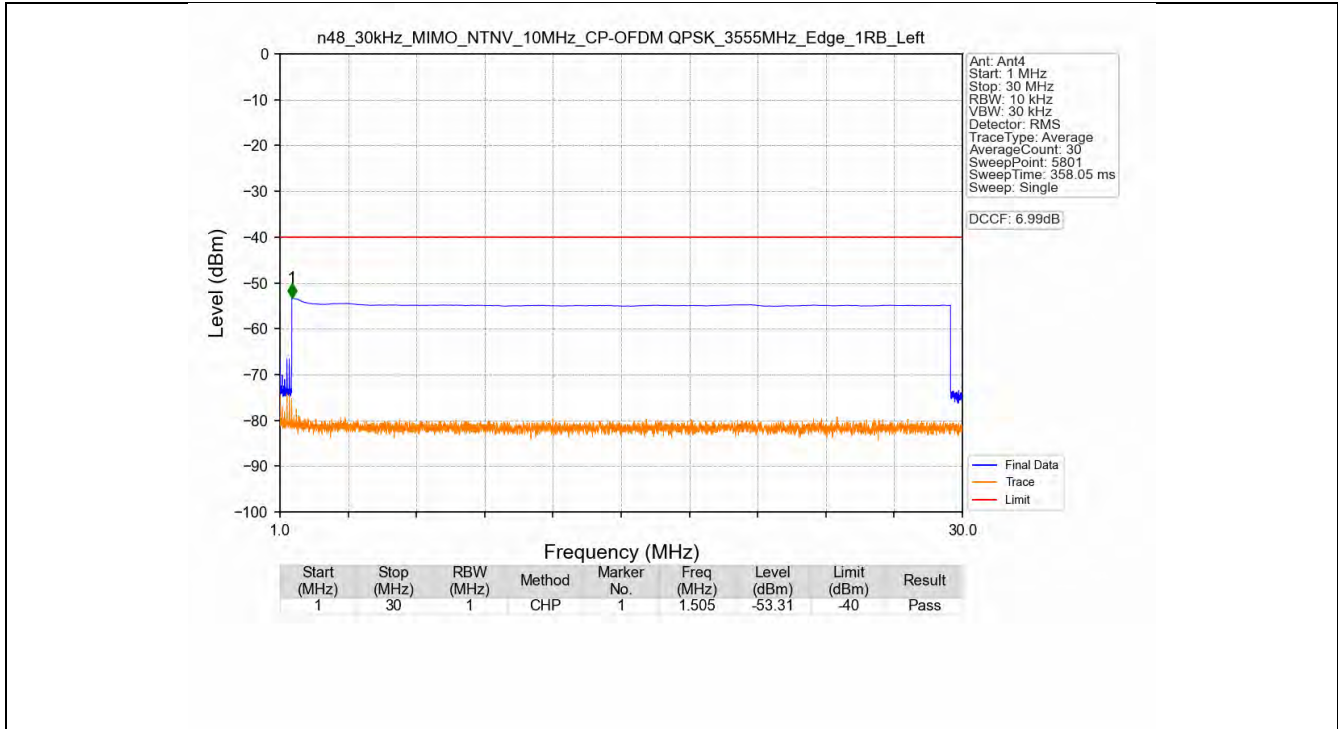


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