

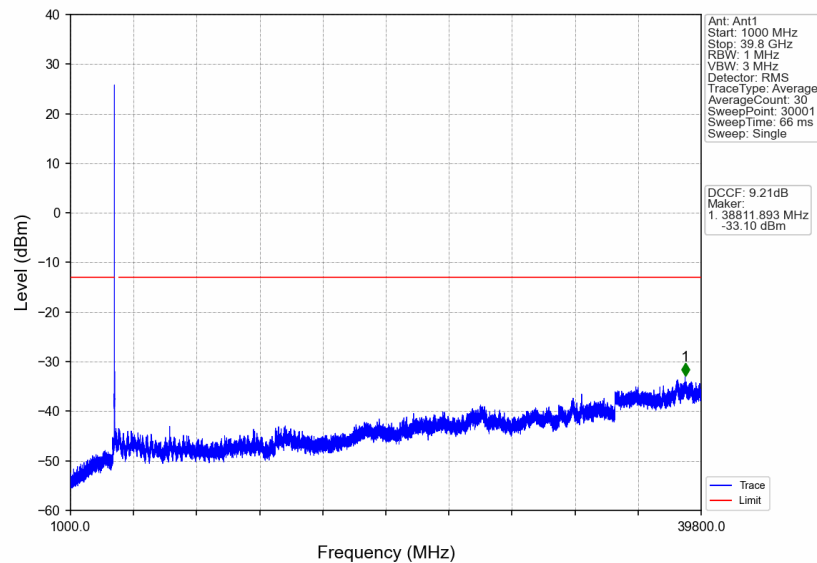


Report No.: SEWM2311000456RG02

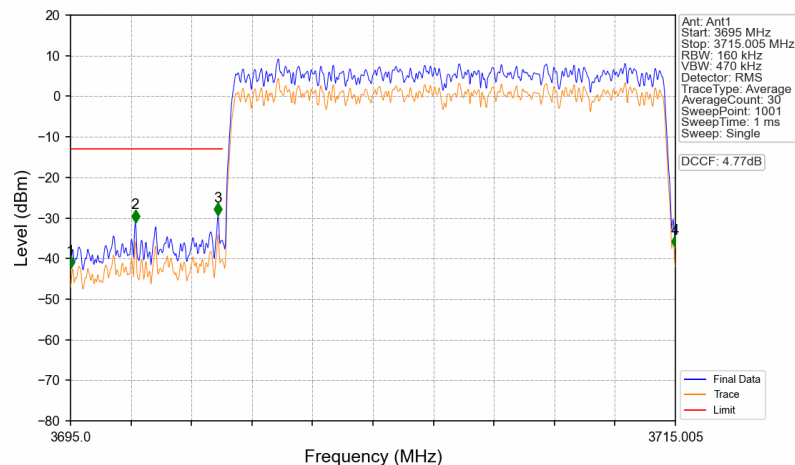
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n77a_15kHz_SISO_NTNV_15MHz_CP-OFDM_QPSK_3707.505MHz_Edge_1RB_Left



n77a_15kHz_SISO_NTNV_15MHz_CP-OFDM_QPSK_3707.505MHz_Outer_Full



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3695	3695.005	1	/	1	3695.000	-42.45	-13	Pass
3695.005	3699.005	0.5	/	2	3697.141	-31.09	-13	Pass
3699.005	3700.005	0.16	/	3	3699.881	-29.35	-13	Pass
3700.005	3715.005	0.16	/	4	3715.005	-37.34	-13	Pass



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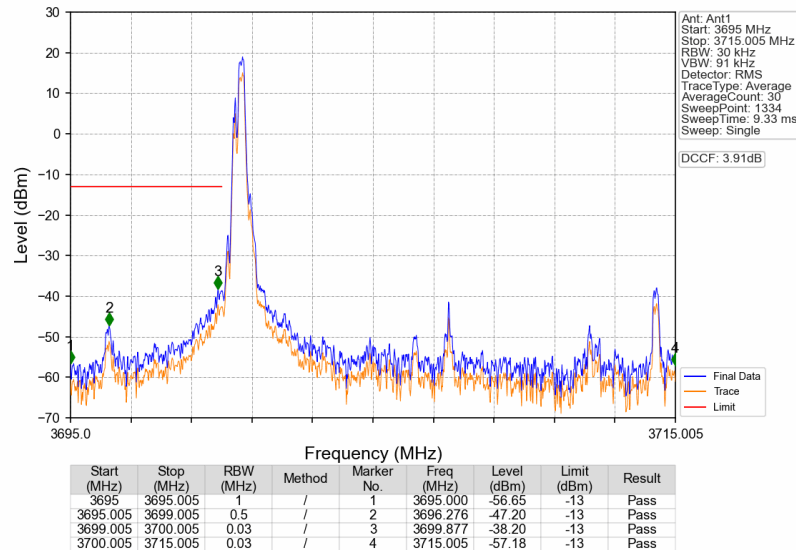
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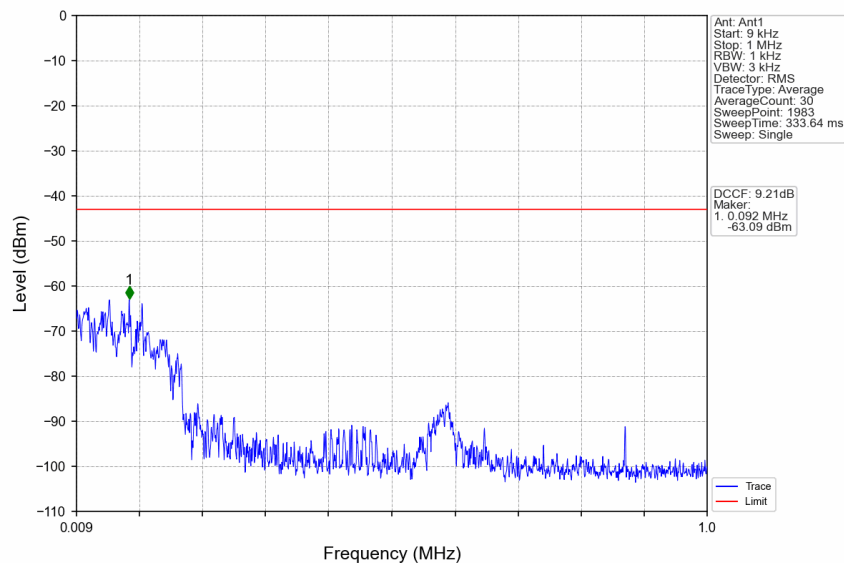
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n77a_15kHz_SISO_NTNV_15MHz_CP-OFDM_QPSK_3707.505MHz_Inner_1RB_Left



n77a_15kHz_SISO_NTNV_15MHz_CP-OFDM_QPSK_3840MHz_Edge_1RB_Left



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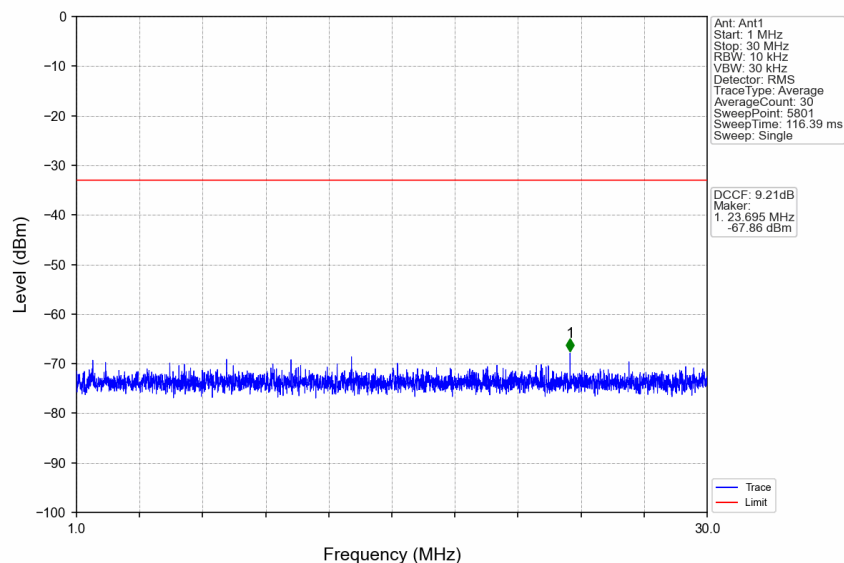


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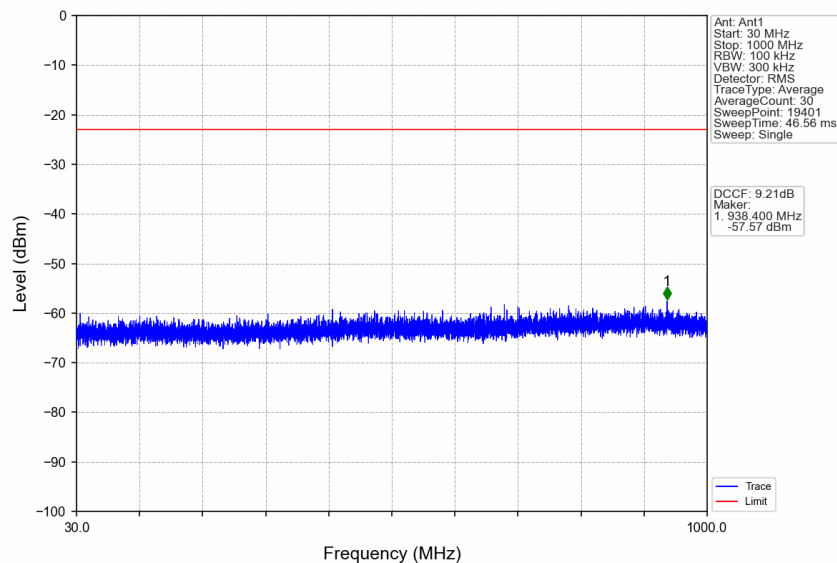
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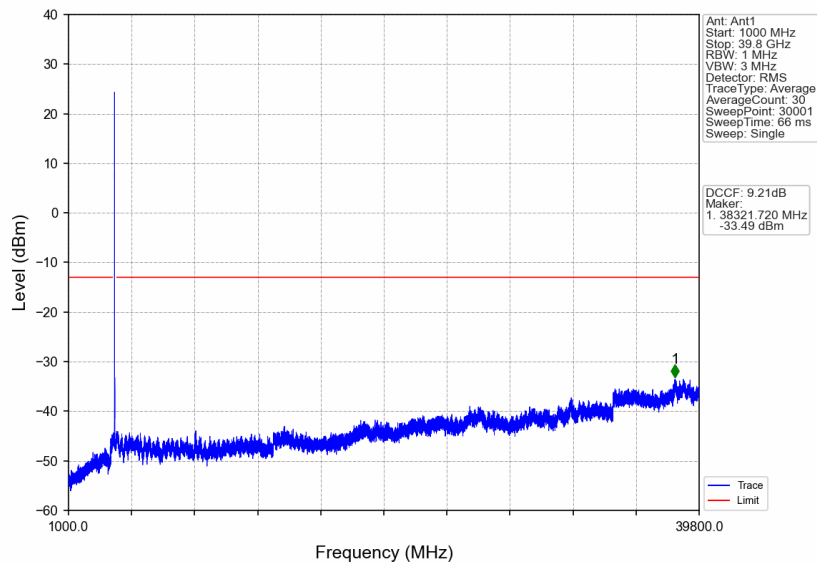
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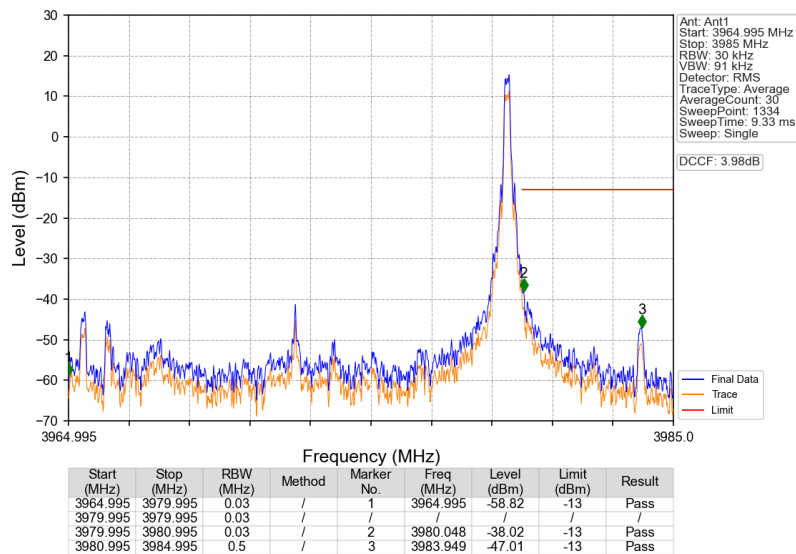
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n77a 15kHz SISO NTN 15MHz CP-OFDM QPSK 3840MHz Edge 1RB Left



n77a 15kHz SISO NTN 15MHz CP-OFDM QPSK 3972.495MHz Edge 1RB Right



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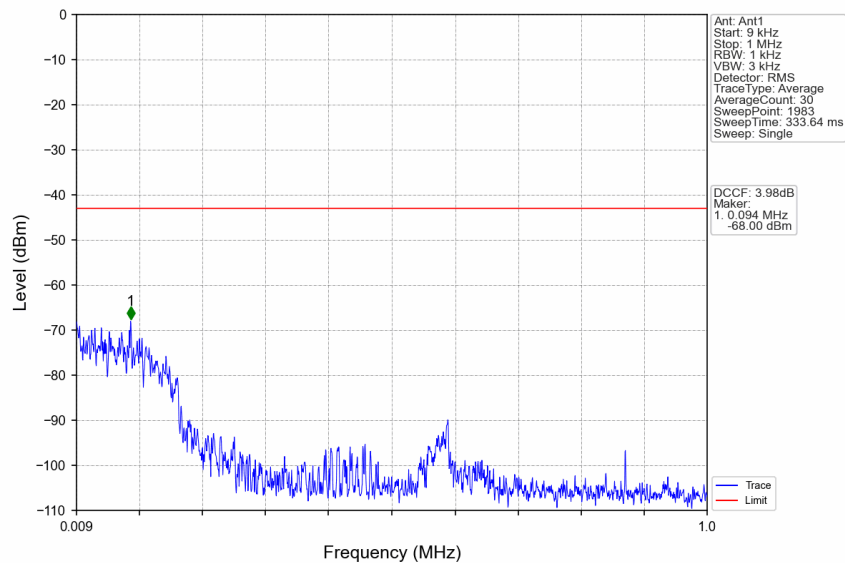
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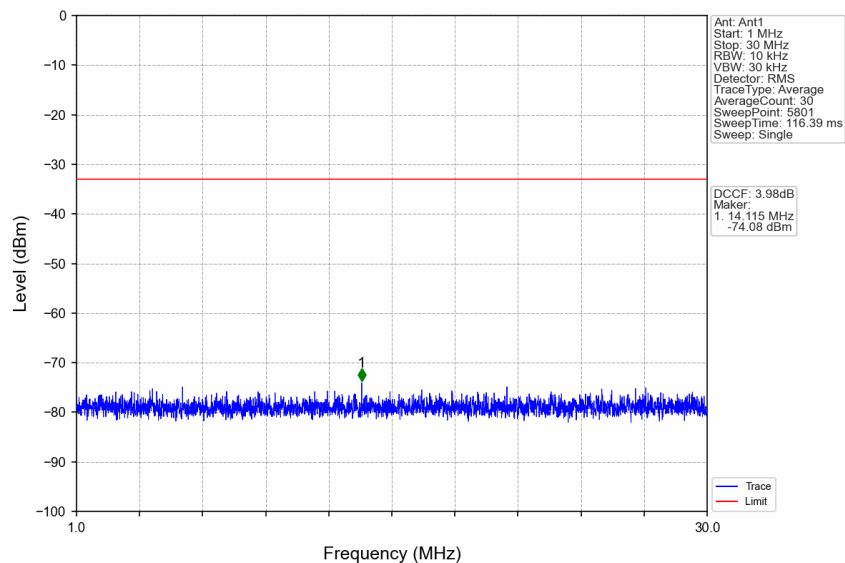
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n77a 15kHz SISO_NTNV_15MHz_CP-OFDM QPSK_3972.495MHz_Edge_1RB_Right



n77a 15kHz SISO_NTNV_15MHz_CP-OFDM QPSK_3972.495MHz_Edge_1RB_Right



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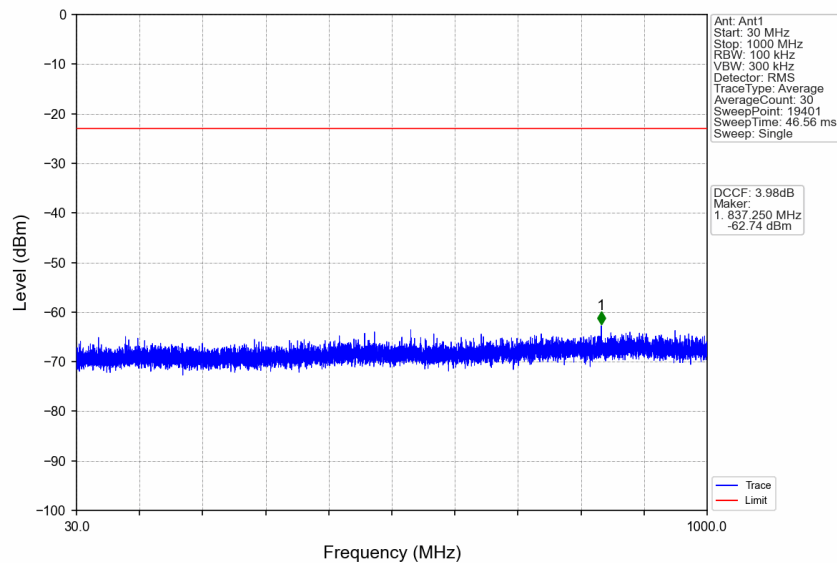


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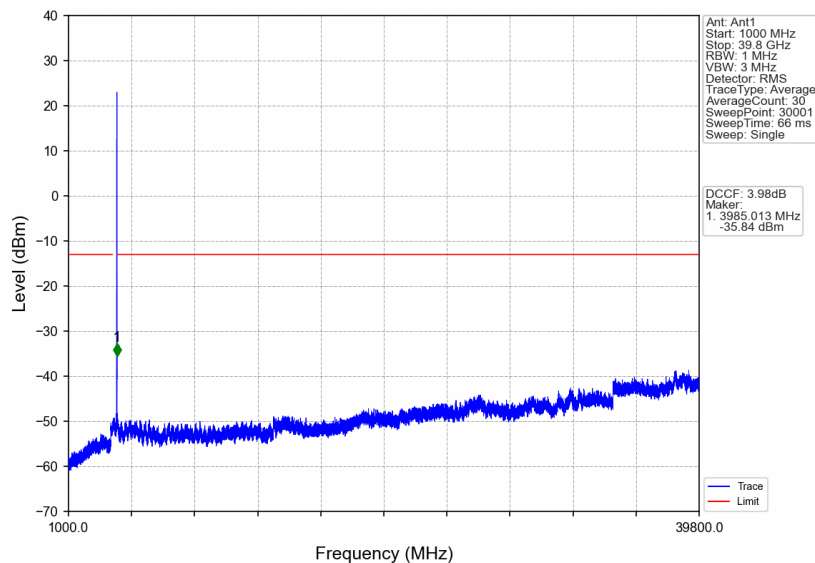
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n77a 15kHz SISO_NTNV_15MHz_CP-OFDM QPSK_3972.495MHz_Edge_1RB_Right



n77a 15kHz SISO_NTNV_15MHz_CP-OFDM QPSK_3972.495MHz_Edge_1RB_Right



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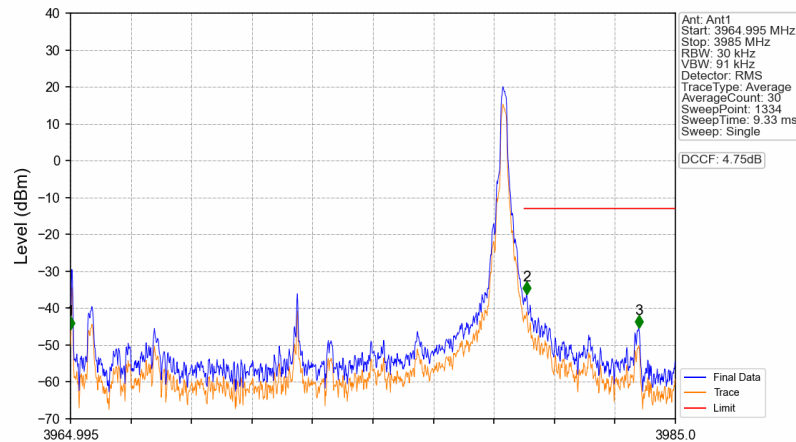
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n77a_15kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_3972.495MHz_Outer_Full



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3964.995	3979.995	0.16	/	1	3964.995	-35.00	-13	Pass
3979.995	3979.995	0.16	/	/	/	/	/	/
3979.995	3980.995	0.16	/	2	3980.659	-28.82	-13	Pass
3980.995	3984.995	0.5	/	3	3981.039	-32.04	-13	Pass

n77a_15kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_3972.495MHz_Inner_1RB_Right



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3964.995	3979.995	0.03	/	1	3964.995	-45.66	-13	Pass
3979.995	3979.995	0.03	/	/	/	/	/	/
3979.995	3980.995	0.03	/	2	3980.078	-36.21	-13	Pass
3980.995	3984.995	0.5	/	3	3983.784	-45.40	-13	Pass



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6.3 15k_SISO_20MHz_NTNV

6.3.1 Test Result

5G NR n77a SCS=15kHz SISO 20MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission				Verdict
			Ant5	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3710.01	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
		Inner_1RB_Left	Refer To Test Graph				Pass
	3840	Edge_1RB_Left	Refer To Test Graph				Pass
		Edge_1RB_Right	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
		Inner_1RB_Right	Refer To Test Graph				Pass
DFT-s-OFDM QPSK	3710.01	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
		Inner_1RB_Left	Refer To Test Graph				Pass
	3840	Edge_1RB_Left	Refer To Test Graph				Pass
		Edge_1RB_Right	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
		Inner_1RB_Right	Refer To Test Graph				Pass
CP-OFDM QPSK	3710.01	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
		Inner_1RB_Left	Refer To Test Graph				Pass
	3840	Edge_1RB_Left	Refer To Test Graph				Pass
		Edge_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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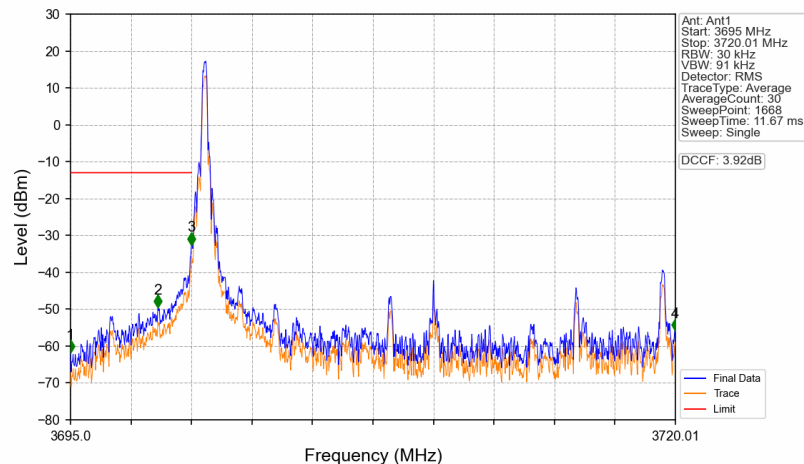
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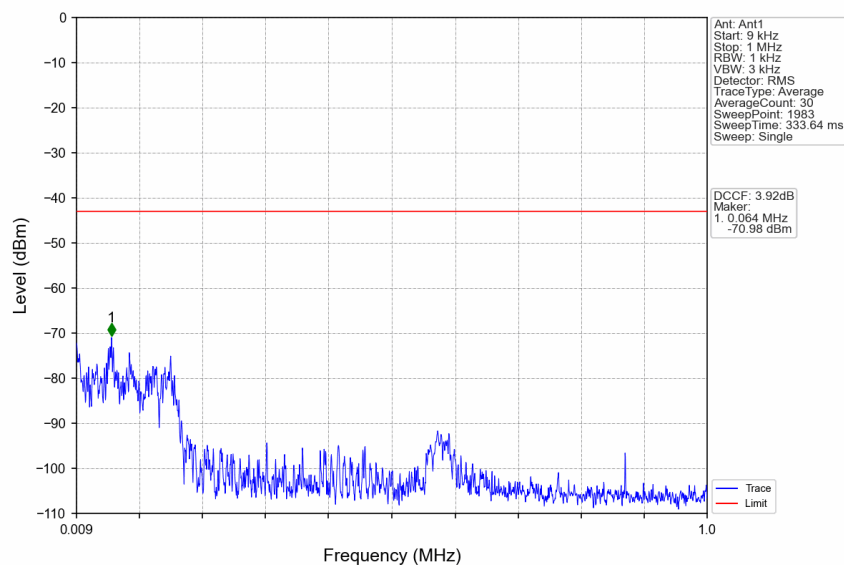
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6.3.2 Test Graph

n77a_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK 3710.01MHz_Edge_1RB_Left



n77a_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK 3710.01MHz_Edge_1RB_Left



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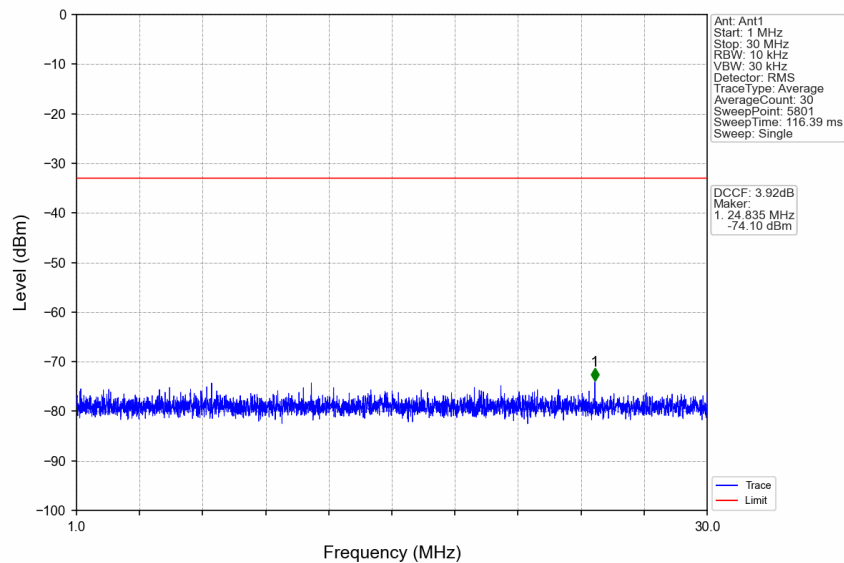
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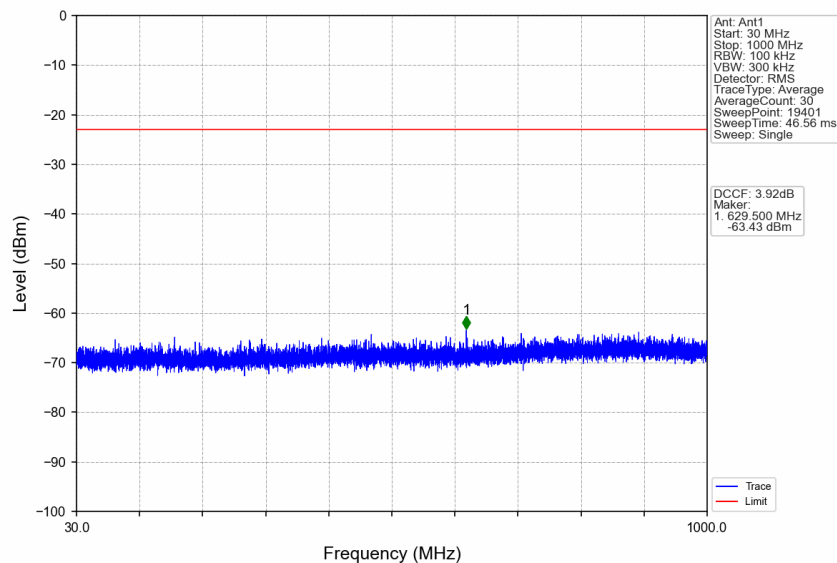
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n77a_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM Pi/2 BPSK_3710.01MHz_Edge_1RB_Left



n77a_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM Pi/2 BPSK_3710.01MHz_Edge_1RB_Left



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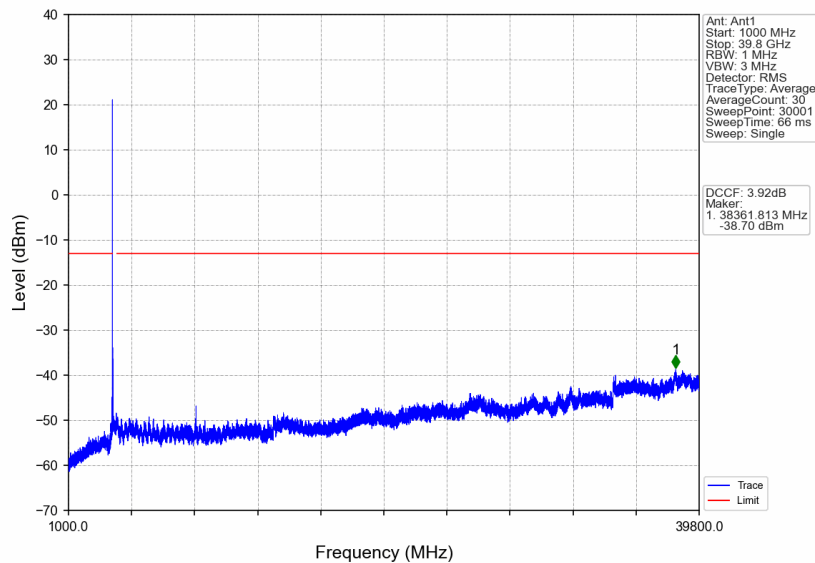
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Report No.: SEWM2311000456RG02

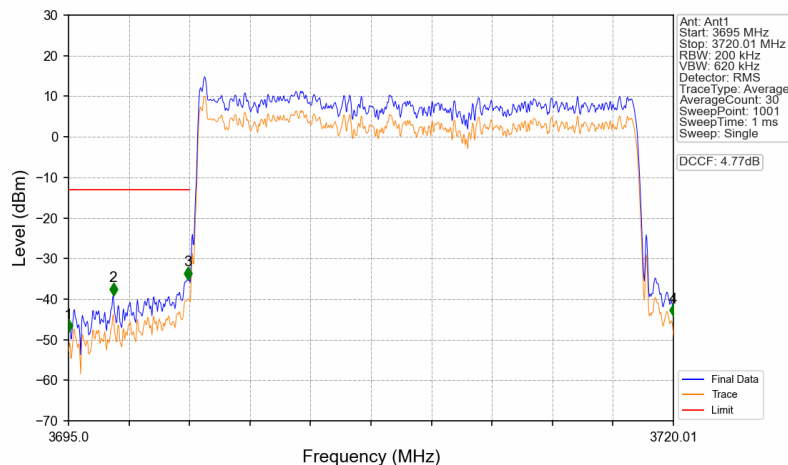
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n77a_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_3710.01MHz_Edge_1RB_Left



n77a_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_3710.01MHz_Outer_Full



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3695	3695.01	1	/	1	3695.000	-48.20	-13	Pass
3695.01	3699.01	0.5	/	2	3696.851	-39.06	-13	Pass
3699.01	3700.01	0.2	/	3	3699.927	-35.18	-13	Pass
3700.01	3720.01	0.2	/	4	3720.010	-44.27	-13	Pass



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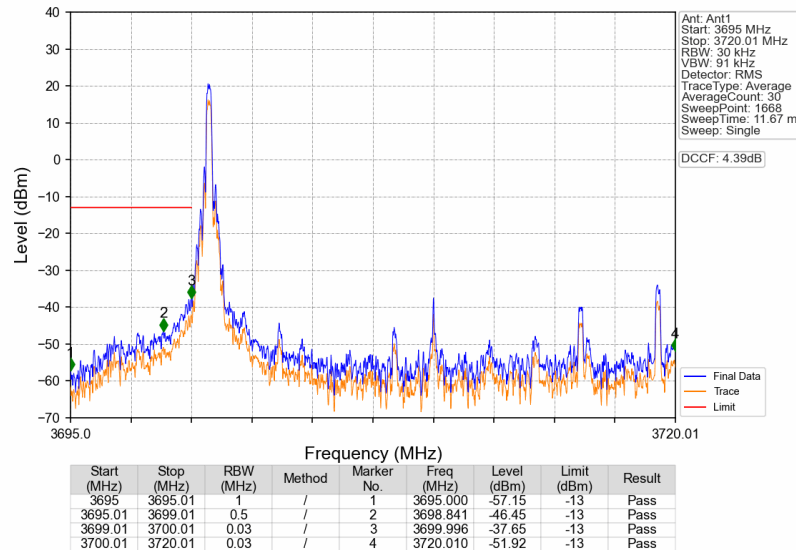


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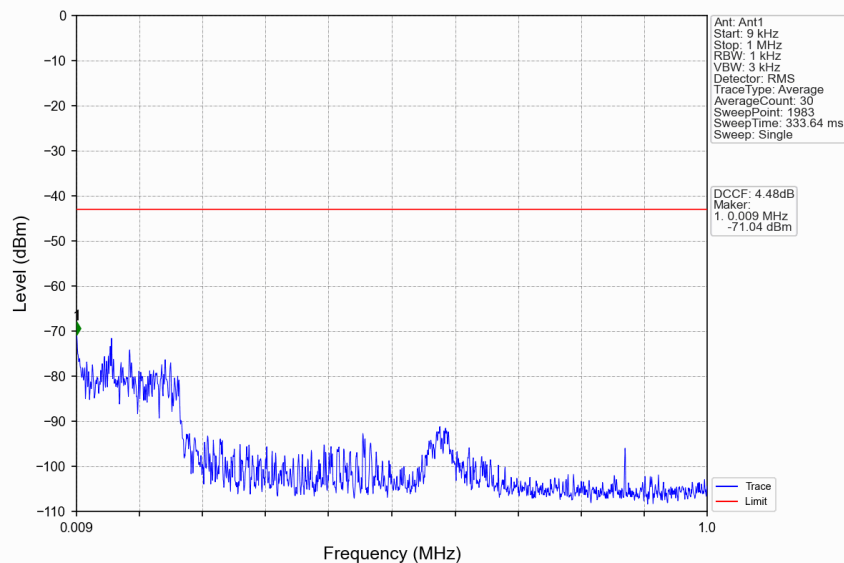
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n77a_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK 3710.01MHz_Inner_1RB_Left



n77a_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK 3840MHz_Edge_1RB_Left



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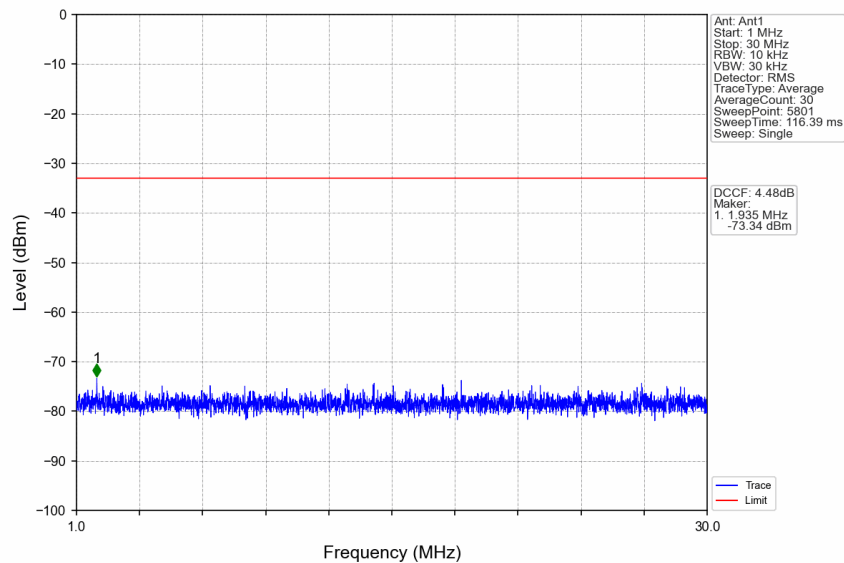


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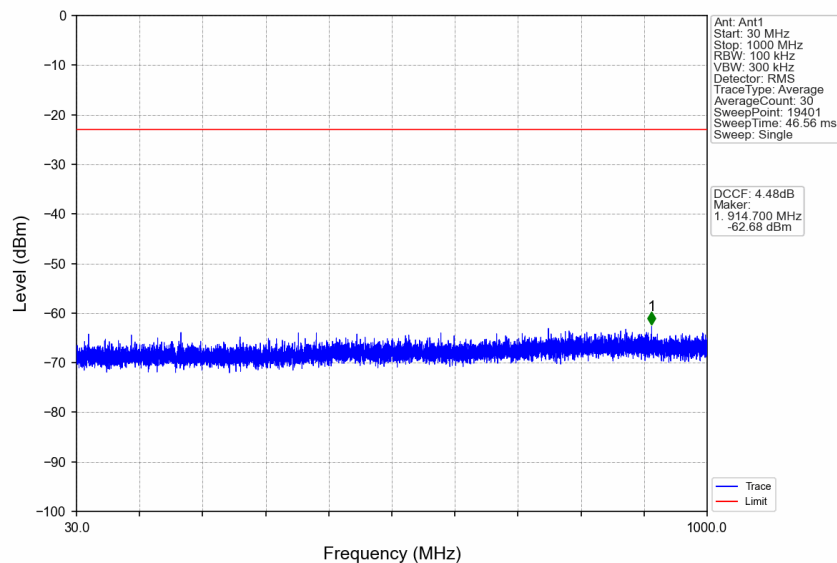
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n77a_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_3840MHz_Edge_1RB_Left



n77a_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_3840MHz_Edge_1RB_Left



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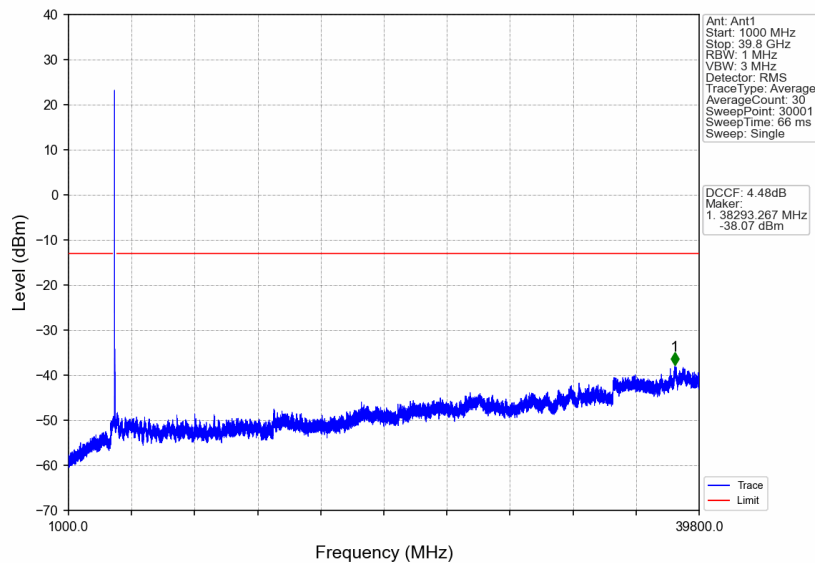
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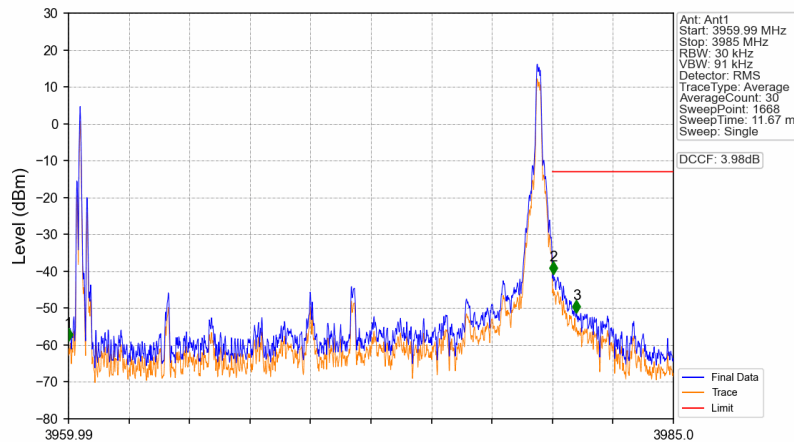
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n77a_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_3840MHz_Edge_1RB_Left



n77a_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_3969.99MHz_Edge_1RB_Right



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3959.99	3979.99	0.03	/	1	3959.990	-58.94	-13	Pass
3979.99	3979.99	0.03	/	/	/	/	/	/
3979.99	3980.99	0.03	/	2	3980.034	-40.85	-13	Pass
3980.99	3984.99	0.5	/	3	3980.994	-51.26	-13	Pass



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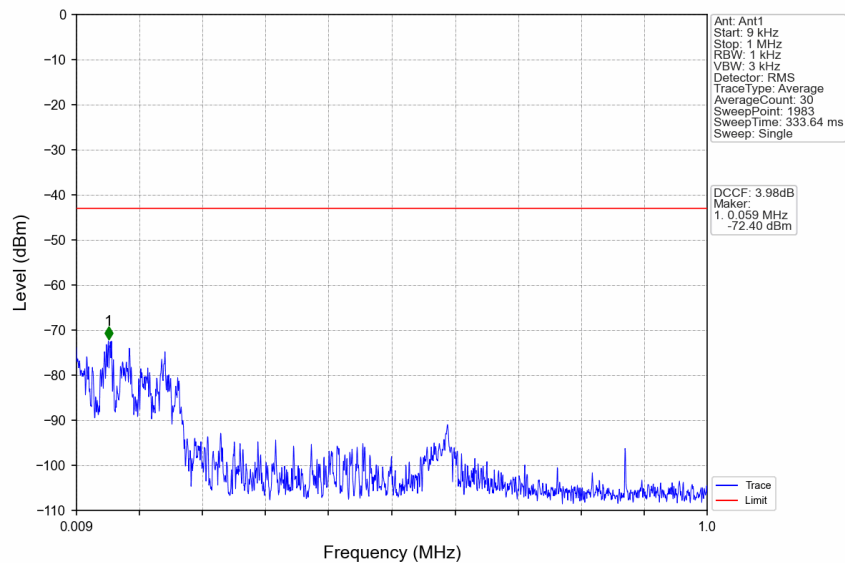


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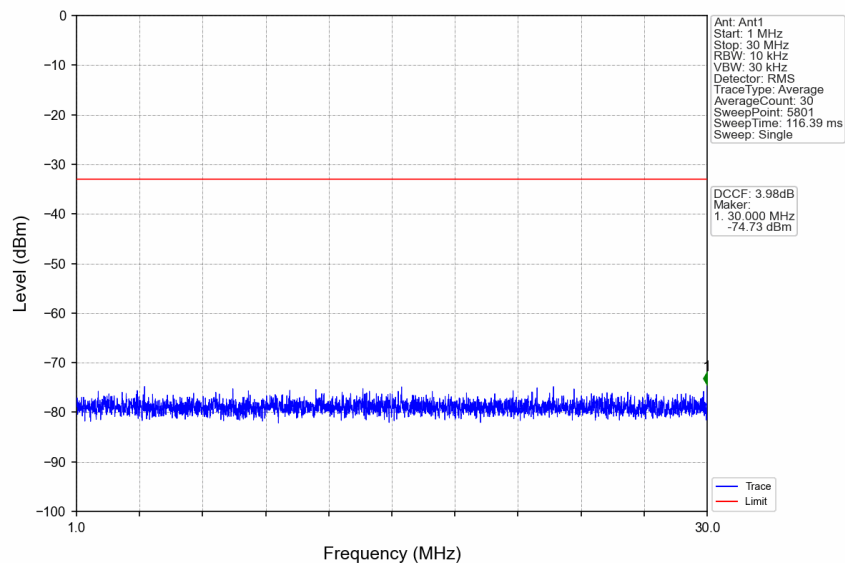
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n77a_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_PI/2_BPSK_3969.99MHz_Edge_1RB_Right



n77a_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_PI/2_BPSK_3969.99MHz_Edge_1RB_Right



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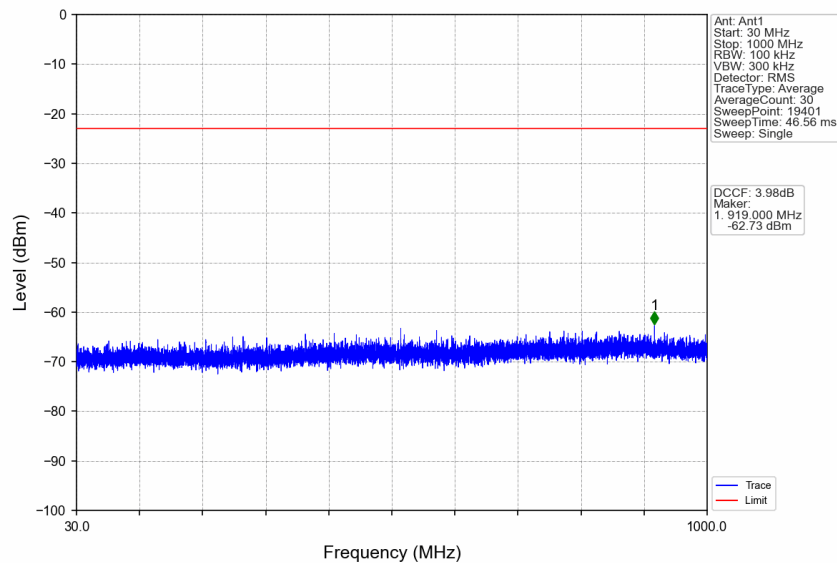


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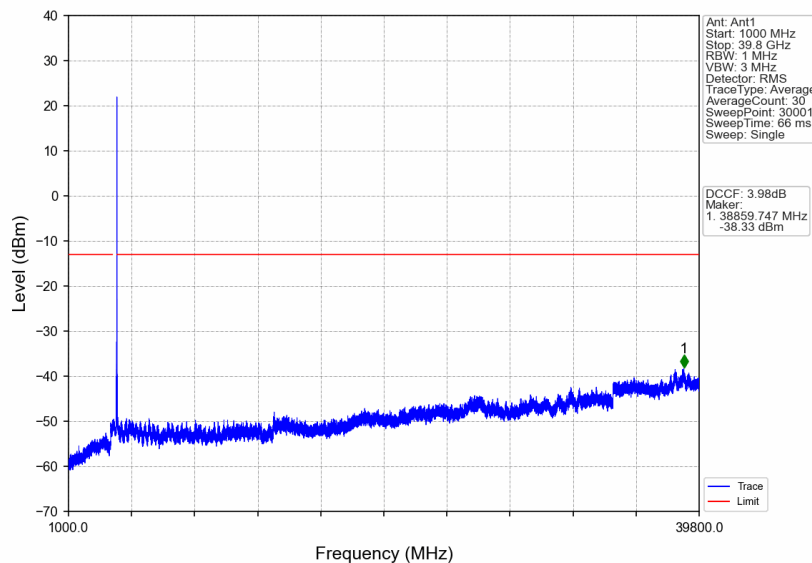
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n77a_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_PI/2_BPSK_3969.99MHz_Edge_1RB_Right



n77a_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_PI/2_BPSK_3969.99MHz_Edge_1RB_Right



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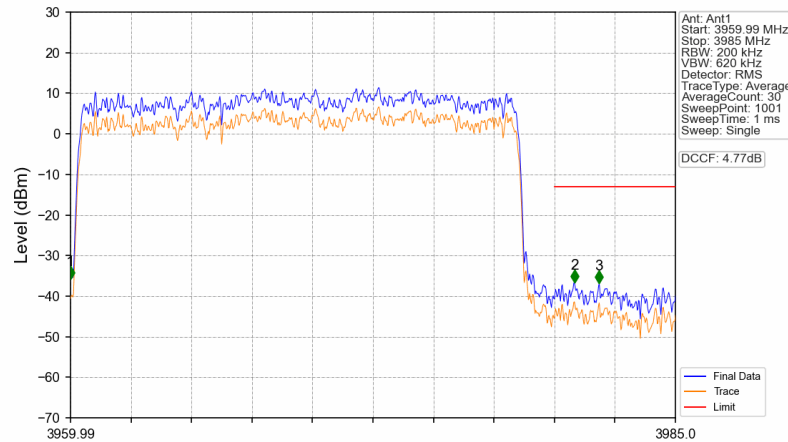
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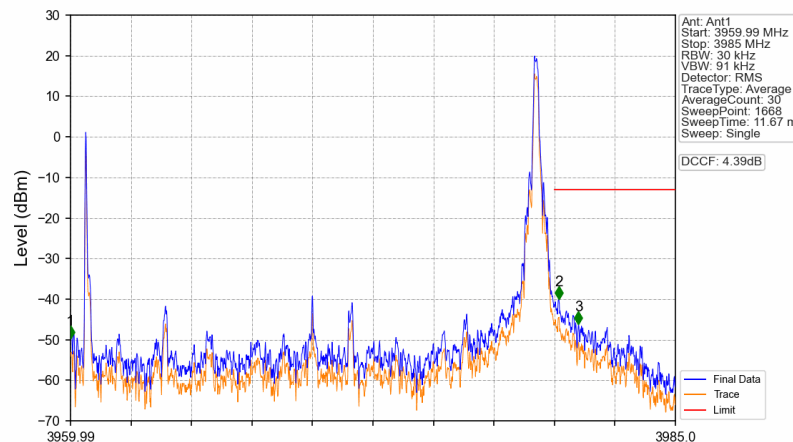
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n77a_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_3969.99MHz_Outer_Full



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3959.99	3979.99	0.2	/	1	3959.990	-35.86	-13	Pass
3979.99	3979.99	0.2	/	/	/	/	/	/
3979.99	3980.99	0.2	/	2	3980.823	-36.63	-13	Pass
3980.99	3984.99	0.5	/	3	3981.849	-36.89	-13	Pass

n77a_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_3969.99MHz_Inner_1RB_Right



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3959.99	3979.99	0.03	/	1	3959.990	-49.73	-13	Pass
3979.99	3979.99	0.03	/	/	/	/	/	/
3979.99	3980.99	0.03	/	2	3980.184	-40.06	-13	Pass
3980.99	3984.99	0.5	/	3	3980.994	-46.21	-13	Pass



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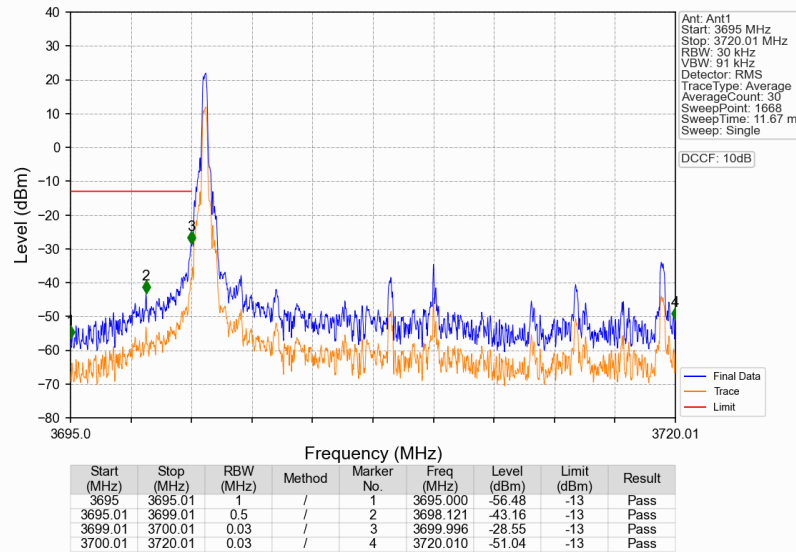
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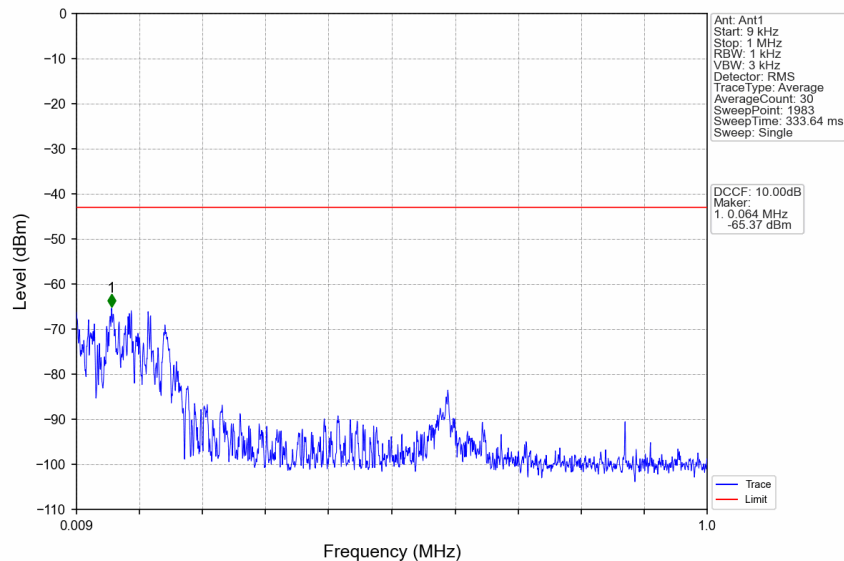
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n77a_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_QPSK_3710.01MHz_Edge_1RB_Left



n77a_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_QPSK_3710.01MHz_Edge_1RB_Left



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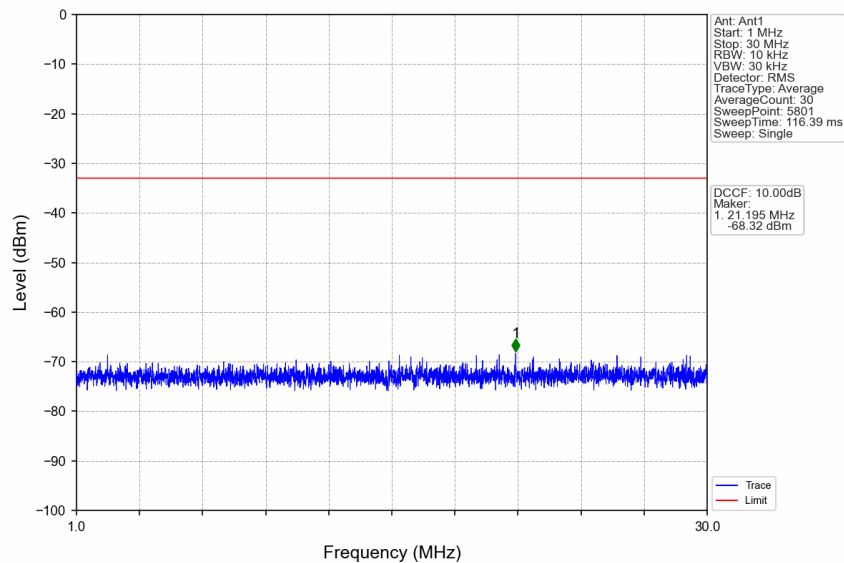


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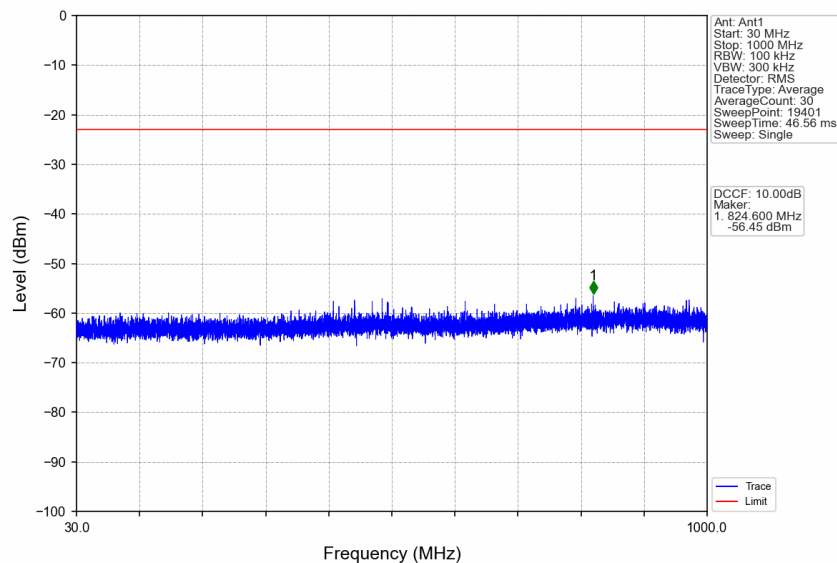
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n77a_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_QPSK_3710.01MHz_Edge_1RB_Left



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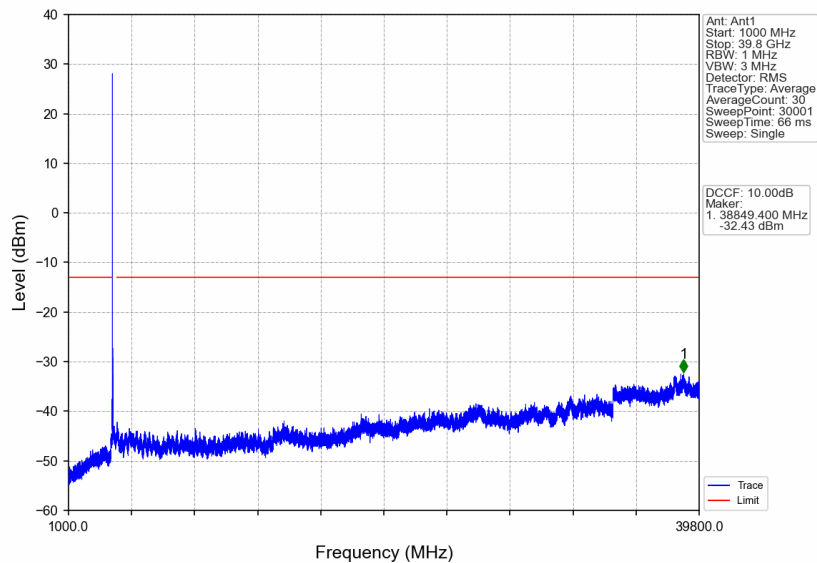


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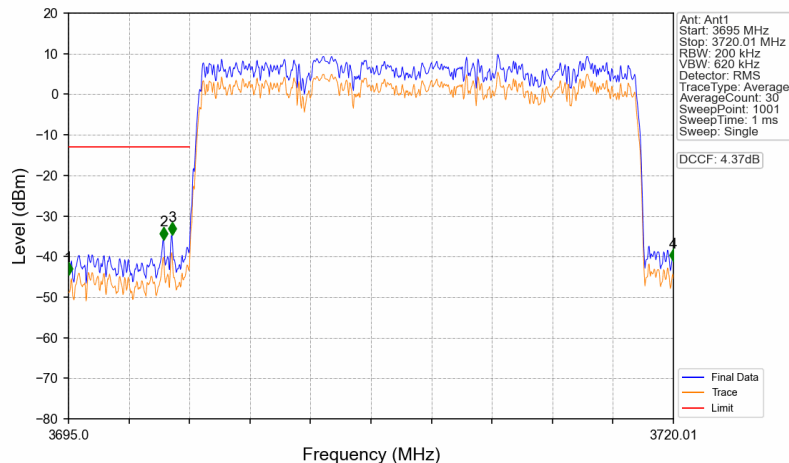
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n77a_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_QPSK_3710.01MHz_Edge_1RB_Left



n77a_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_QPSK_3710.01MHz_Outer_Full



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3695	3695.01	1	/	1	3695.000	-44.61	-13	Pass
3695.01	3699.01	0.5	/	2	3698.927	-35.82	-13	Pass
3699.01	3700.01	0.2	/	3	3699.277	-34.68	-13	Pass
3700.01	3720.01	0.2	/	4	3720.010	-41.15	-13	Pass



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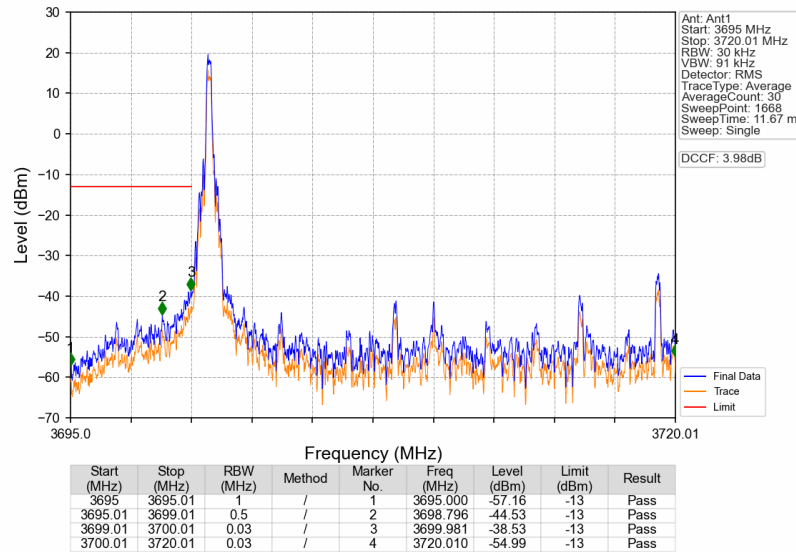


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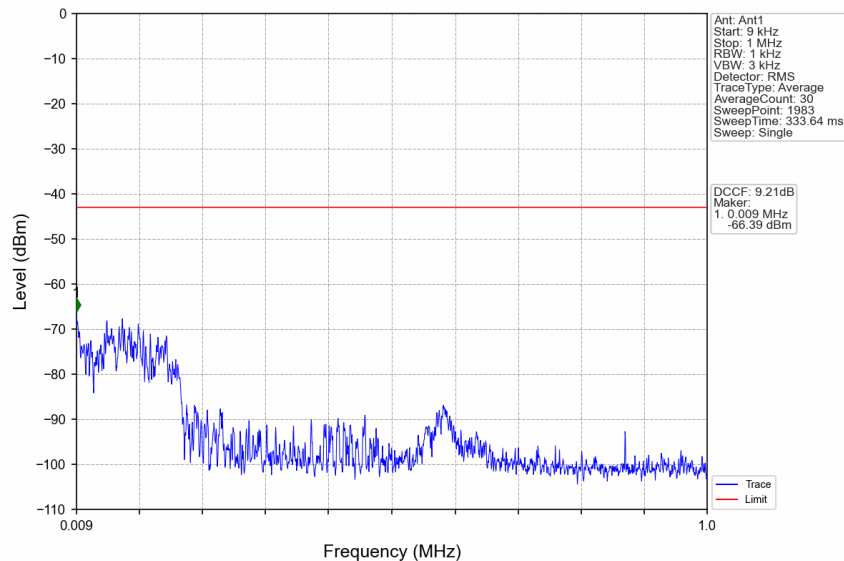
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n77a 15kHz SISO_NTNV_20MHz_DFT-s-OFDM QPSK_3710.01MHz_Inner_1RB_Left



n77a 15kHz SISO_NTNV_20MHz_DFT-s-OFDM QPSK_3840MHz_Edge_1RB_Left



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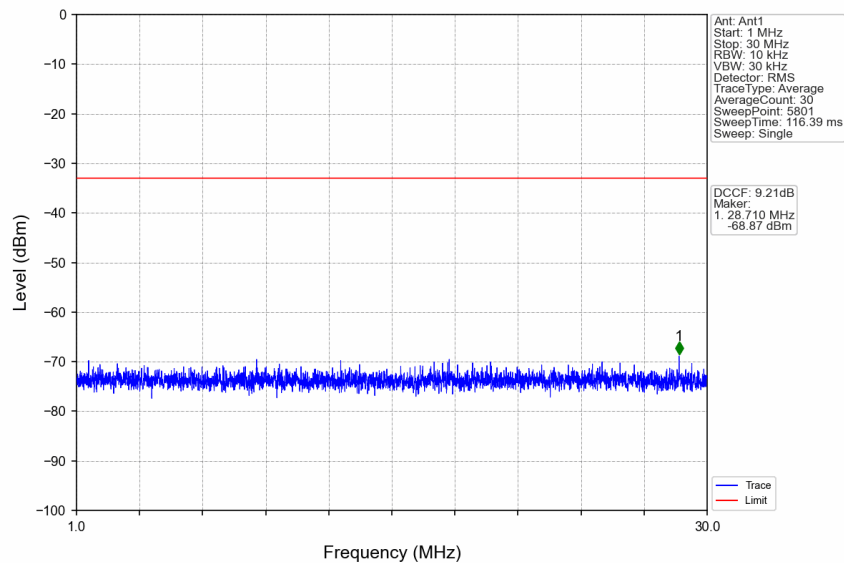


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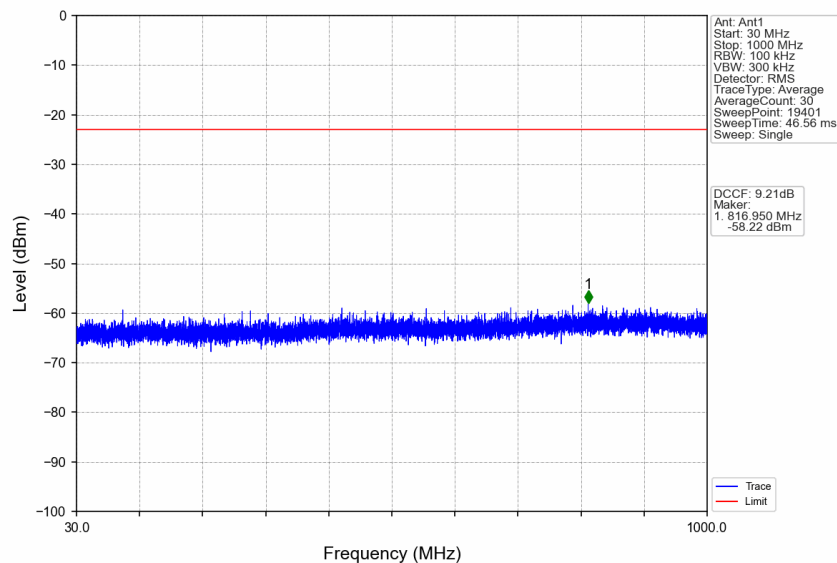
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n77a_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_QPSK_3840MHz_Edge_1RB_Left



n77a_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_QPSK_3840MHz_Edge_1RB_Left



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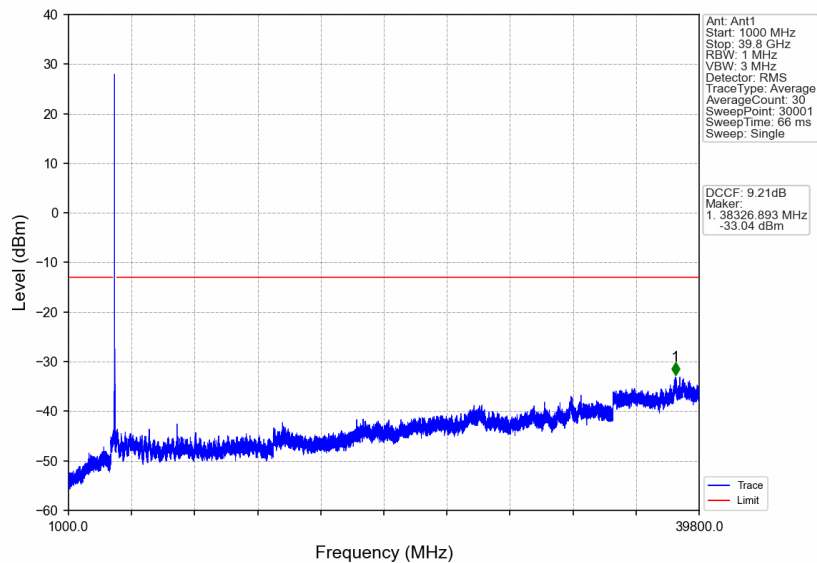


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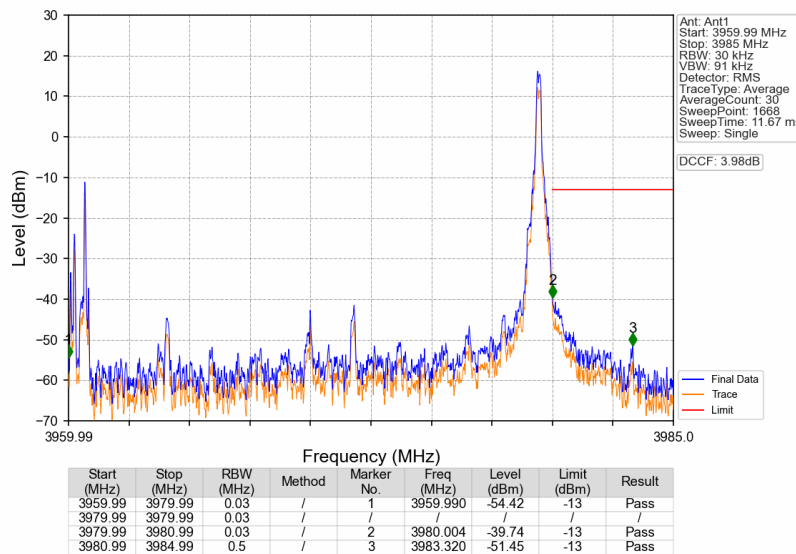
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n77a_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_QPSK_3840MHz_Edge_1RB_Left



n77a_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_QPSK_3969.99MHz_Edge_1RB_Right



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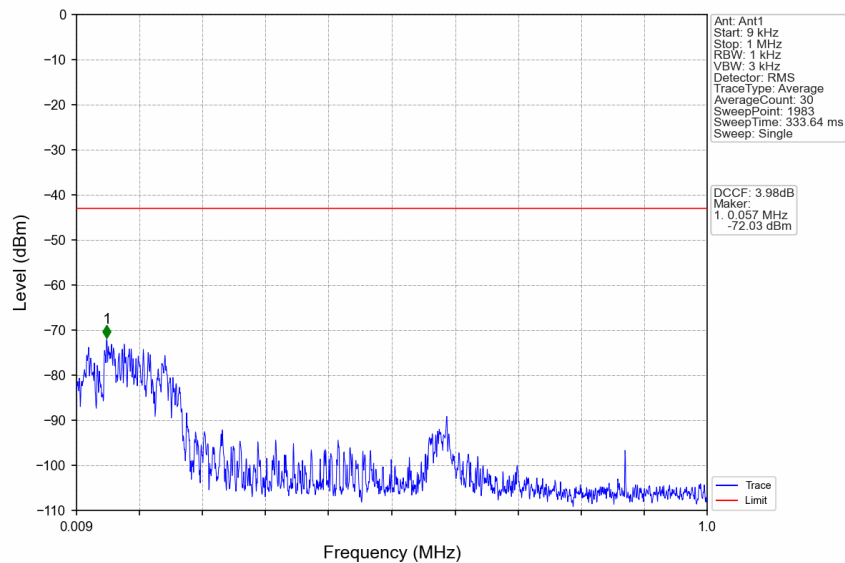


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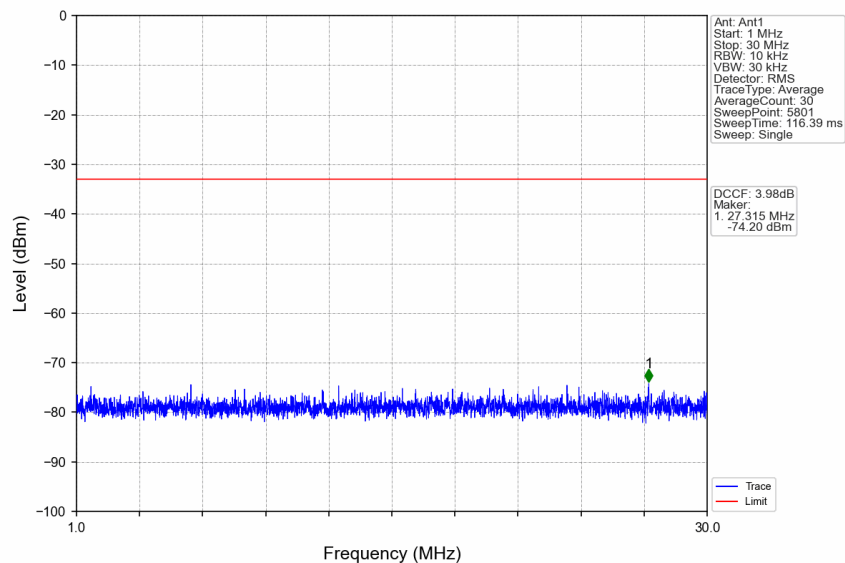
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n77a_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_3969.99MHz_Edge_1RB_Right



n77a_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_3969.99MHz_Edge_1RB_Right



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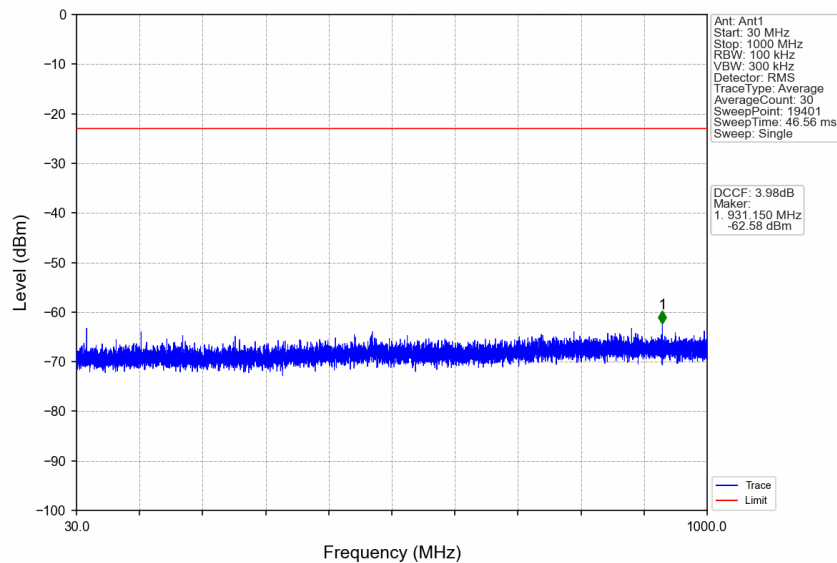
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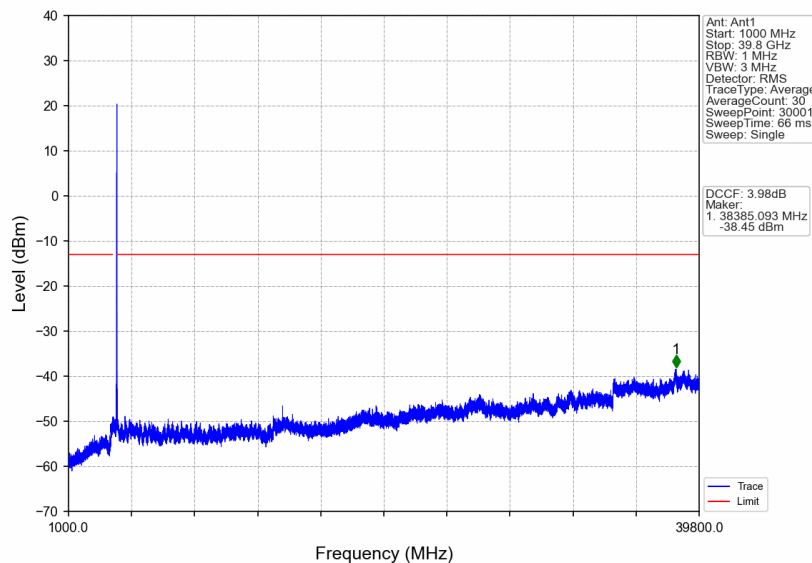
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n77a_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_3969.99MHz_Edge_1RB_Right



n77a_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_3969.99MHz_Edge_1RB_Right



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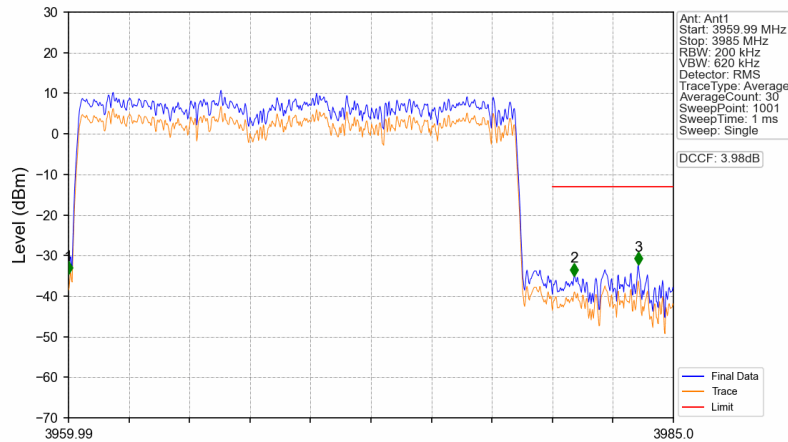
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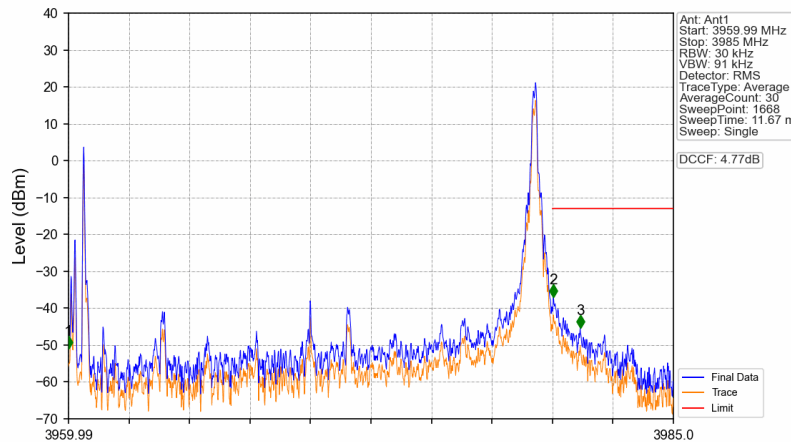
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n77a_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_QPSK_3969.99MHz_Outer_Full



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3959.99	3979.99	0.2	/	1	3959.990	-34.52	-13	Pass
3979.99	3979.99	0.2	/	/	/	/	/	/
3979.99	3980.99	0.2	/	2	3980.898	-34.99	-13	Pass
3980.99	3984.99	0.5	/	3	3983.549	-32.29	-13	Pass

n77a_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_QPSK_3969.99MHz_Inner_1RB_Right



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3959.99	3979.99	0.03	/	1	3959.990	-51.01	-13	Pass
3979.99	3979.99	0.03	/	/	/	/	/	/
3979.99	3980.99	0.03	/	2	3980.034	-37.05	-13	Pass
3980.99	3984.99	0.5	/	3	3981.144	-45.36	-13	Pass



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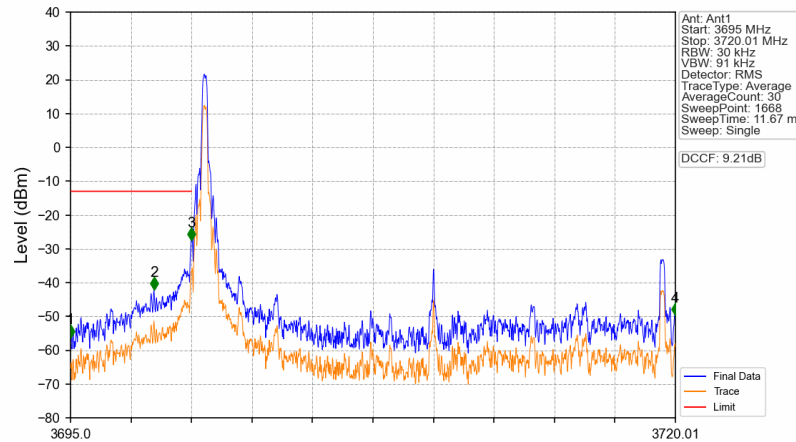


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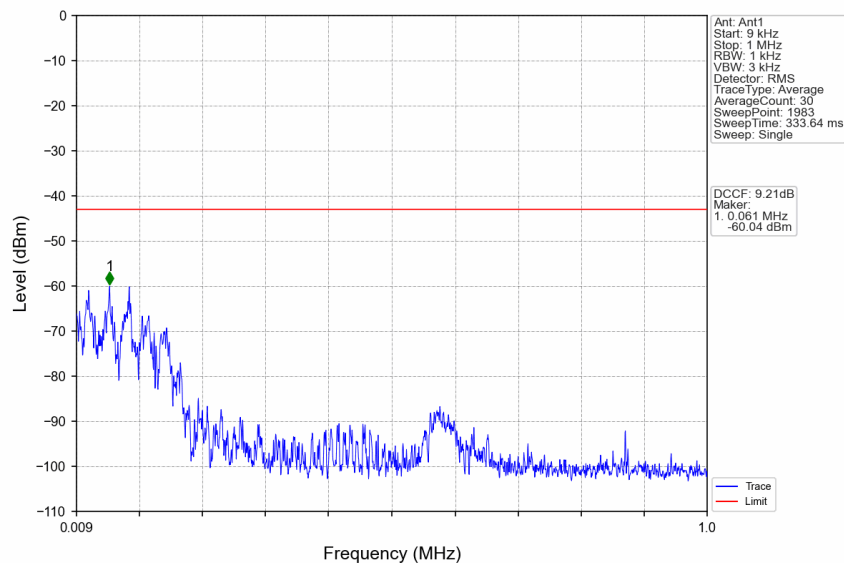
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n77a 15kHz SISO_NTNV_20MHz_CP-OFDM QPSK_3710.01MHz_Edge_1RB_Left



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3695	3695.01	1	/	1	3695.000	-56.20	-13	Pass
3695.01	3699.01	0.5	/	2	3698.451	-42.21	-13	Pass
3699.01	3700.01	0.03	/	3	3699.996	-27.49	-13	Pass
3700.01	3720.01	0.03	/	4	3720.010	-49.70	-13	Pass

n77a 15kHz SISO_NTNV_20MHz_CP-OFDM QPSK_3710.01MHz_Edge_1RB_Left



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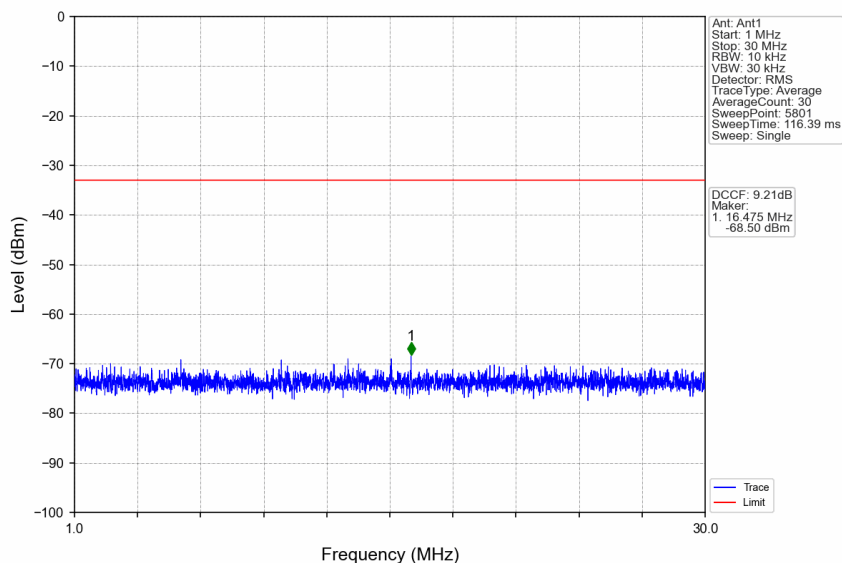
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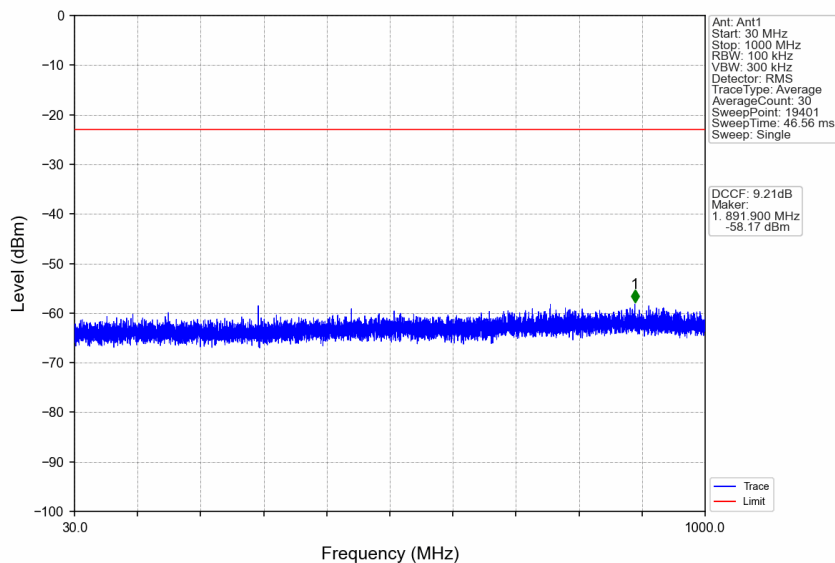
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n77a_15kHz_SISO_NTNV_20MHz_CP-OFDM_QPSK_3710.01MHz_Edge_1RB_Left



n77a_15kHz_SISO_NTNV_20MHz_CP-OFDM_QPSK_3710.01MHz_Edge_1RB_Left



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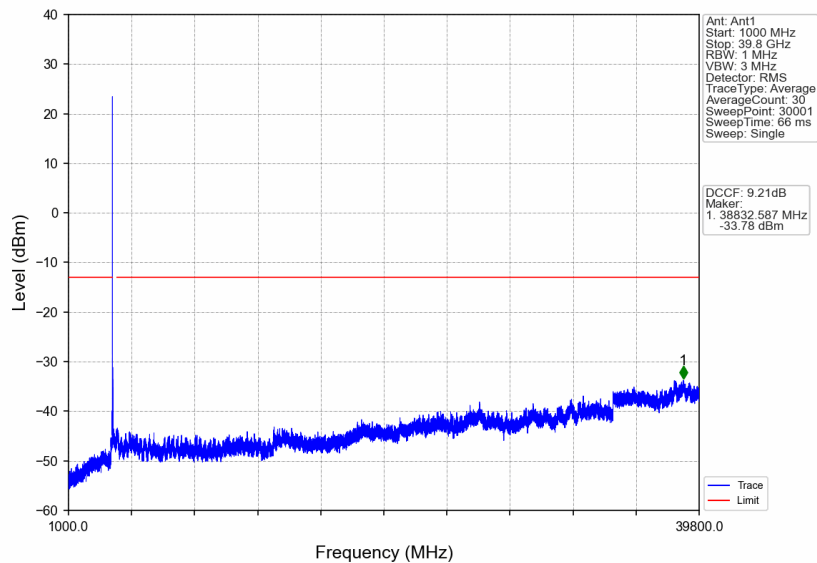
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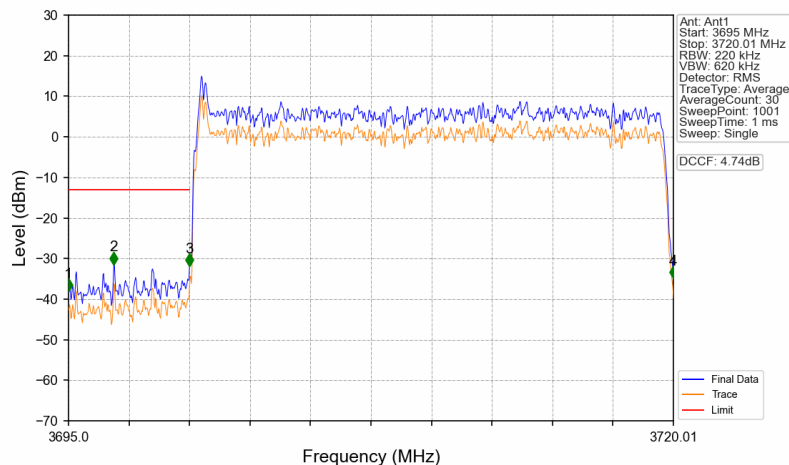
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n77a_15kHz_SISO_NTNV_20MHz_CP-OFDM_QPSK_3710.01MHz_Edge_1RB_Left



n77a_15kHz_SISO_NTNV_20MHz_CP-OFDM_QPSK_3710.01MHz_Outer_Full



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3695	3695.01	1	/	1	3695.000	-38.08	-13	Pass
3695.01	3699.01	0.5	/	2	3696.876	-31.48	-13	Pass
3699.01	3700.01	0.22	/	3	3700.002	-31.97	-13	Pass
3700.01	3720.01	0.22	/	4	3720.010	-34.91	-13	Pass



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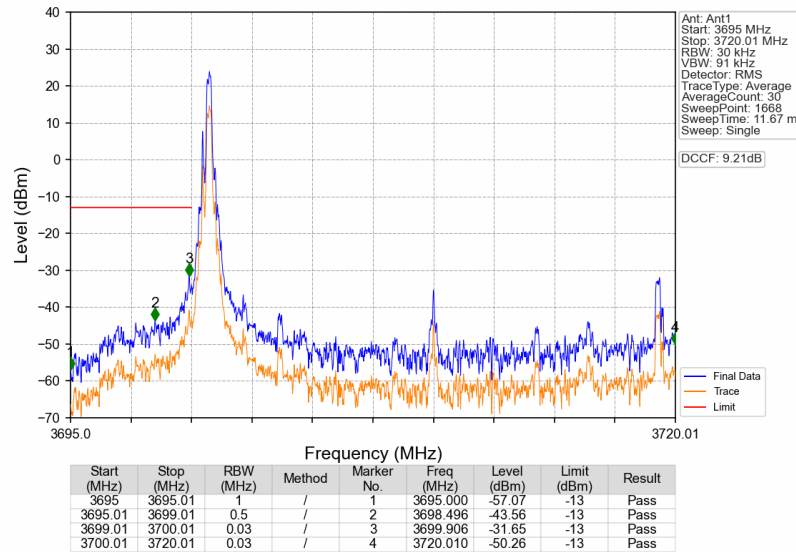


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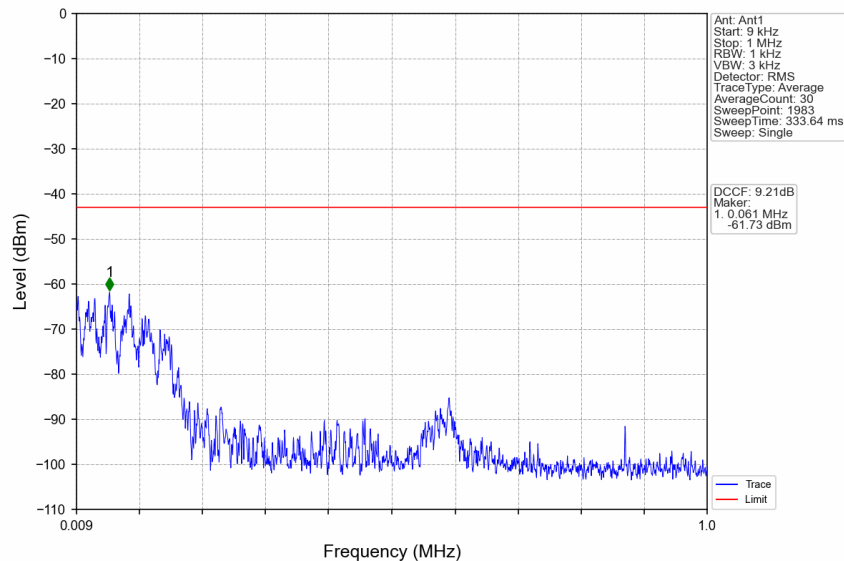
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n77a 15kHz SISO_NTNV_20MHz_CP-OFDM QPSK_3710.01MHz_Inner_1RB_Left



n77a_15kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_3840MHz_Edge_1RB_Left



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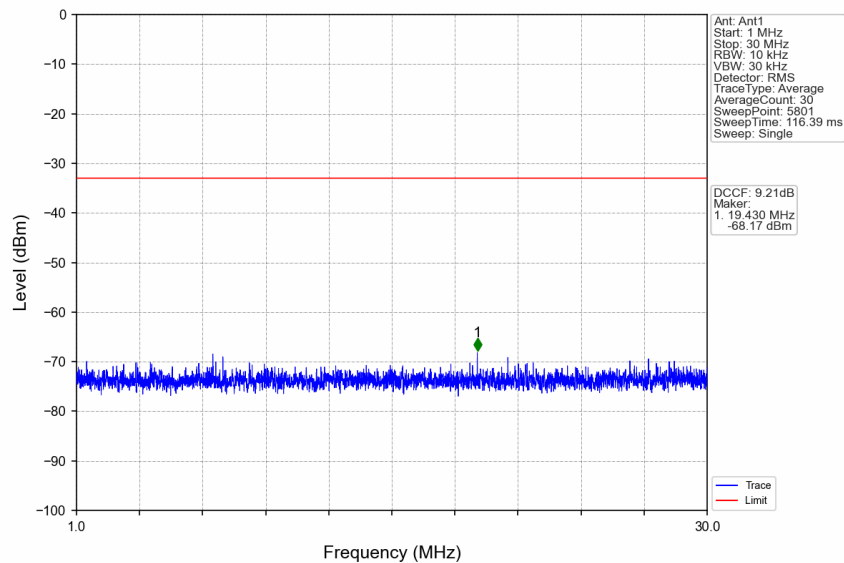


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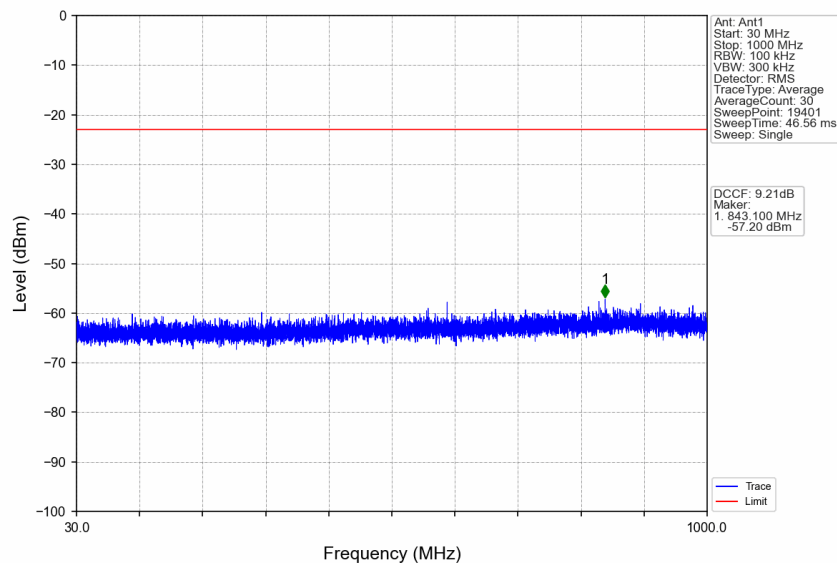
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n77a_15kHz_SISO_NTNV_20MHz_CP-OFDM_QPSK_3840MHz_Edge_1RB_Left



n77a_15kHz_SISO_NTNV_20MHz_CP-OFDM_QPSK_3840MHz_Edge_1RB_Left



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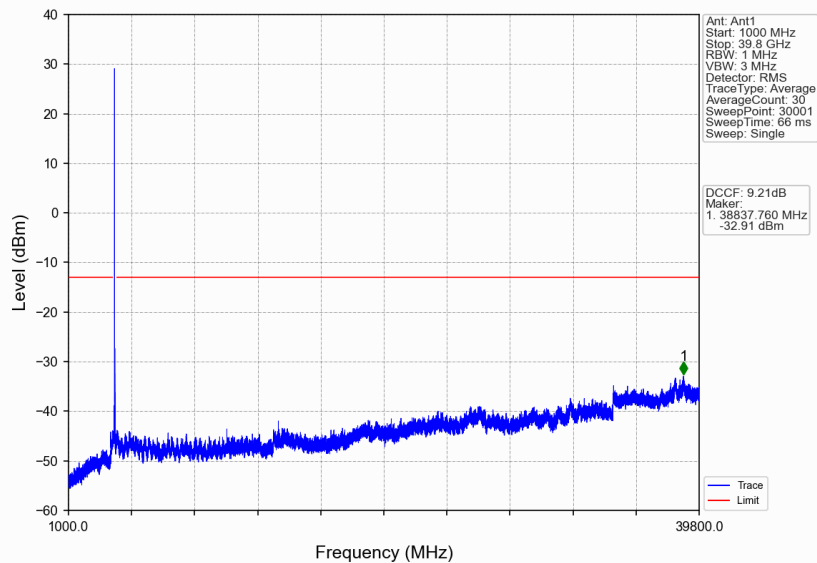


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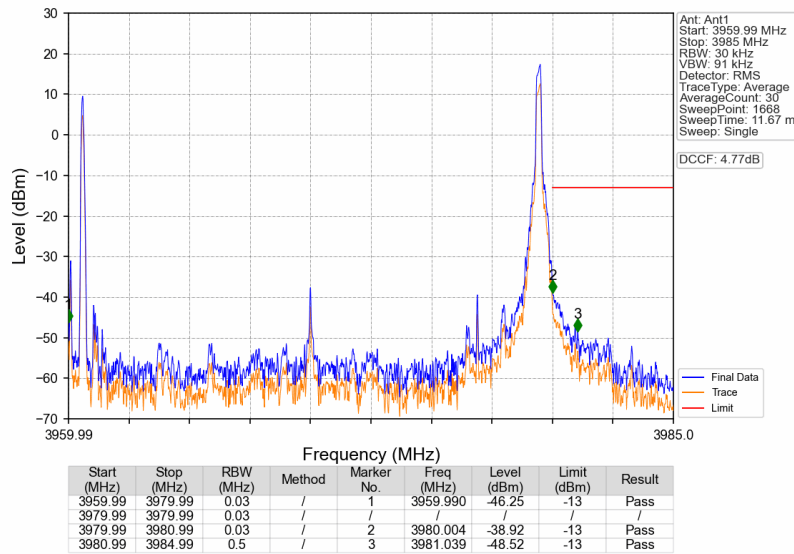
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n77a_15kHz_SISO_NTNV_20MHz_CP-OFDM_QPSK_3840MHz_Edge_1RB_Left



n77a_15kHz_SISO_NTNV_20MHz_CP-OFDM_QPSK_3969.99MHz_Edge_1RB_Right



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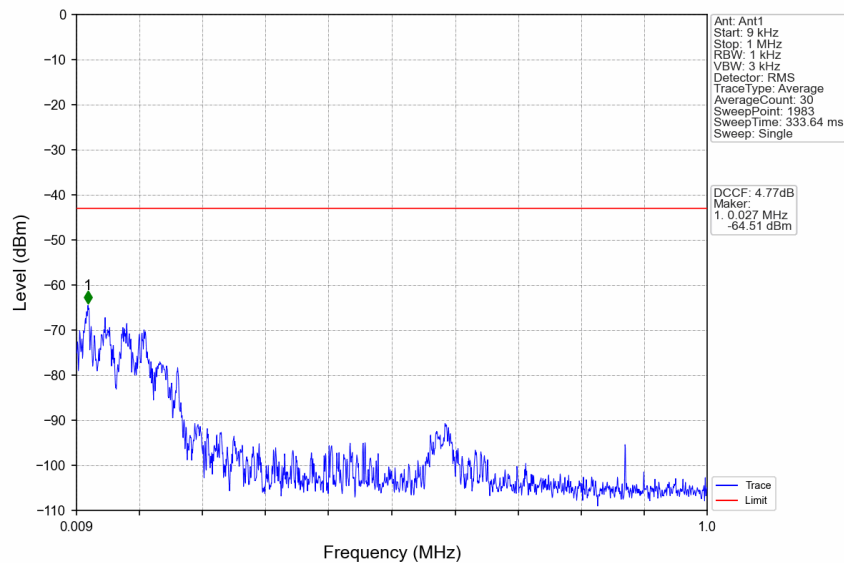
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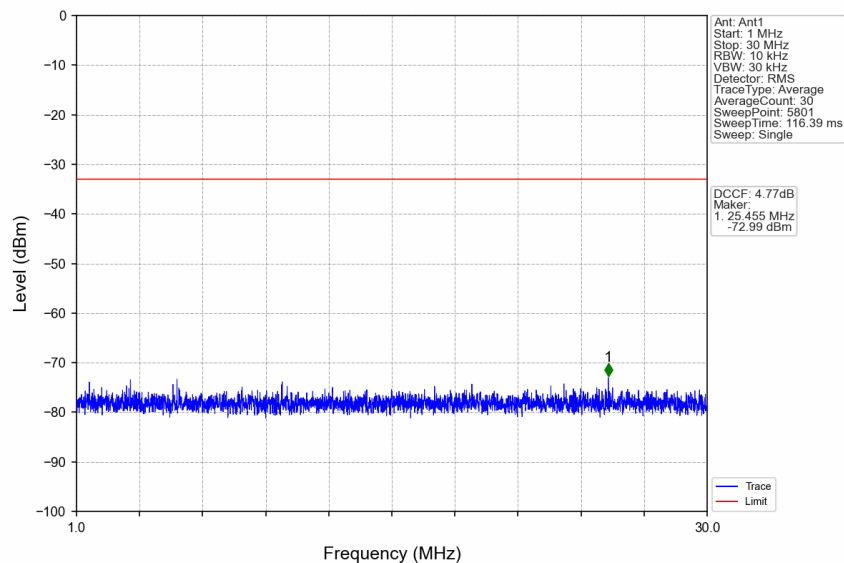
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n77a_15kHz_SISO_NTNV_20MHz_CP-OFDM_QPSK_3969.99MHz_Edge_1RB_Right



n77a_15kHz_SISO_NTNV_20MHz_CP-OFDM_QPSK_3969.99MHz_Edge_1RB_Right



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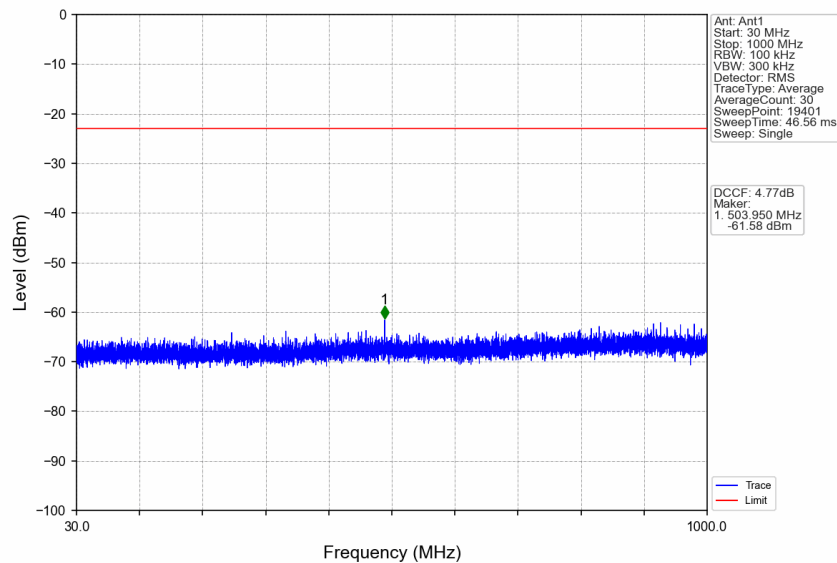


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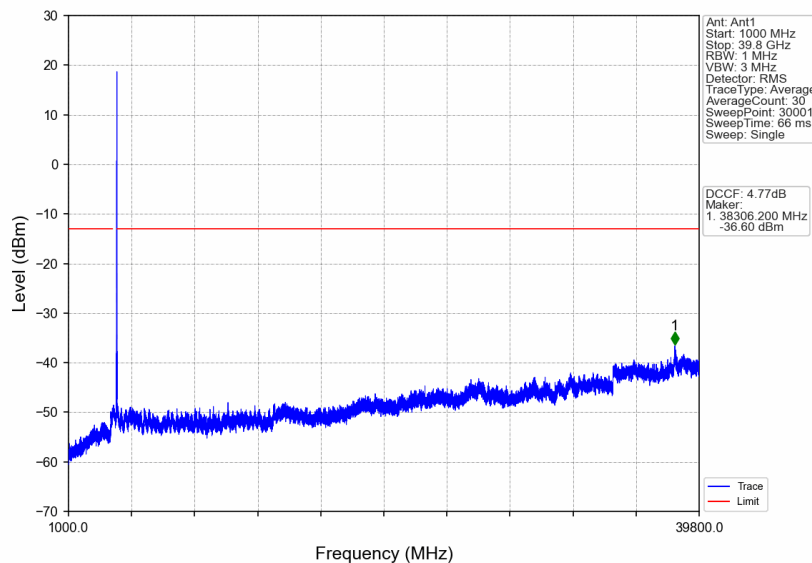
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n77a_15kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_3969.99MHz_Edge_1RB_Right



n77a_15kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_3969.99MHz_Edge_1RB_Right



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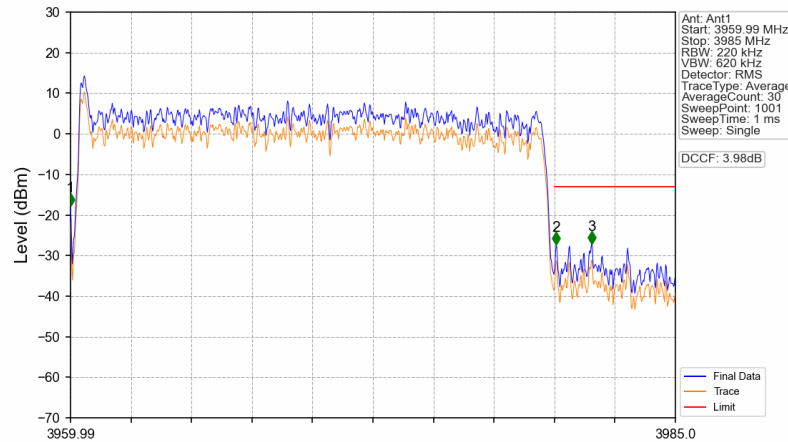
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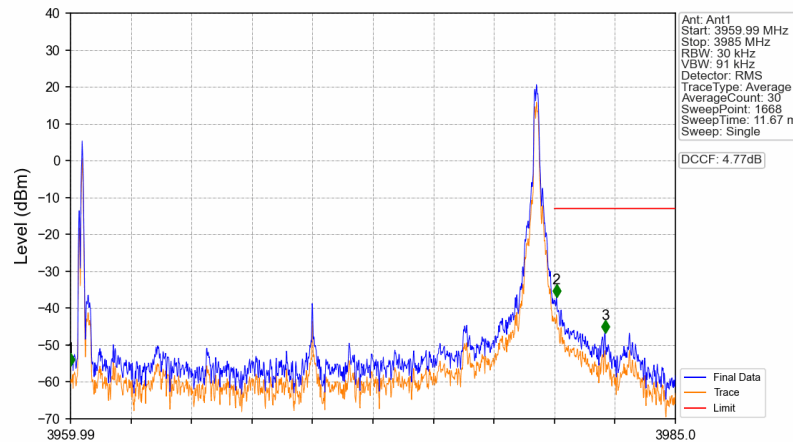
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n77a_15kHz_SISO_NTNV_20MHz_CP-OFDM_QPSK_3969.99MHz_Outer_Full



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3959.99	3979.99	0.22	/	1	3959.990	-17.71	-13	Pass
3979.99	3979.99	0.22	/	/	/	/	/	/
3979.99	3980.99	0.22	/	2	3980.073	-27.28	-13	Pass
3980.99	3984.99	0.5	/	3	3981.549	-27.17	-13	Pass

n77a_15kHz_SISO_NTNV_20MHz_CP-OFDM_QPSK_3969.99MHz_Inner_1RB_Right



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3959.99	3979.99	0.03	/	1	3959.990	-55.71	-13	Pass
3979.99	3979.99	0.03	/	/	/	/	/	/
3979.99	3980.99	0.03	/	2	3980.079	-37.04	-13	Pass
3980.99	3984.99	0.5	/	3	3982.089	-46.73	-13	Pass



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6.4 15k_SISO_25MHz_NTNV

6.4.1 Test Result

5G NR n77a SCS=15kHz SISO 25MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission				Verdict
			Ant5	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3712.5	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
		Inner_1RB_Left	Refer To Test Graph				Pass
	3840	Edge_1RB_Left	Refer To Test Graph				Pass
		Edge_1RB_Right	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
	3967.5	Inner_1RB_Right	Refer To Test Graph				Pass
		Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
DFT-s-OFDM QPSK	3712.5	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
		Inner_1RB_Left	Refer To Test Graph				Pass
	3840	Edge_1RB_Left	Refer To Test Graph				Pass
		Edge_1RB_Right	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
	3967.5	Inner_1RB_Right	Refer To Test Graph				Pass
		Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
CP-OFDM QPSK	3712.5	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
		Inner_1RB_Left	Refer To Test Graph				Pass
	3840	Edge_1RB_Left	Refer To Test Graph				Pass
		Edge_1RB_Right	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
	3967.5	Inner_1RB_Right	Refer To Test Graph				Pass
		Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass



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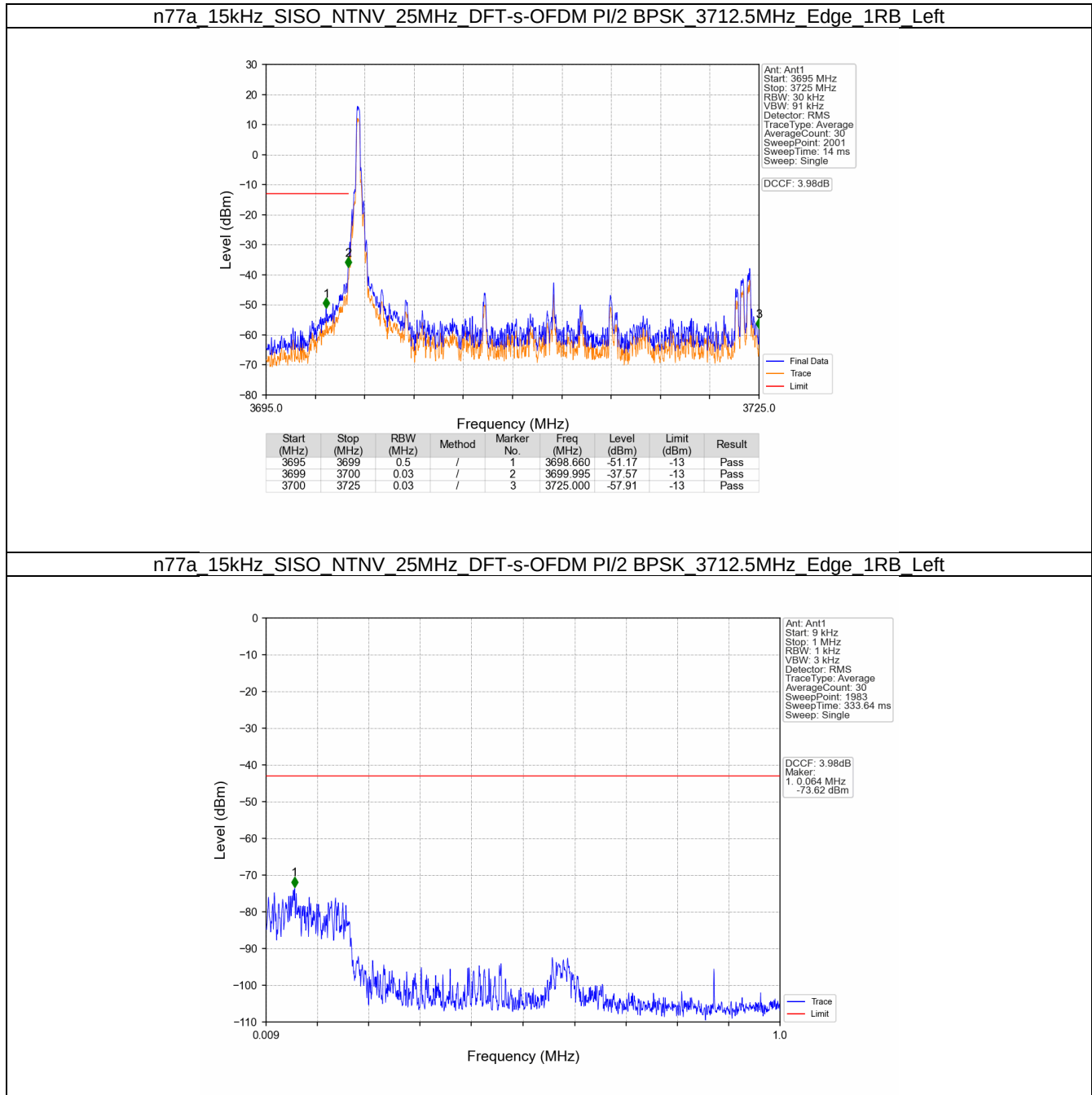
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6.4.2 Test Graph



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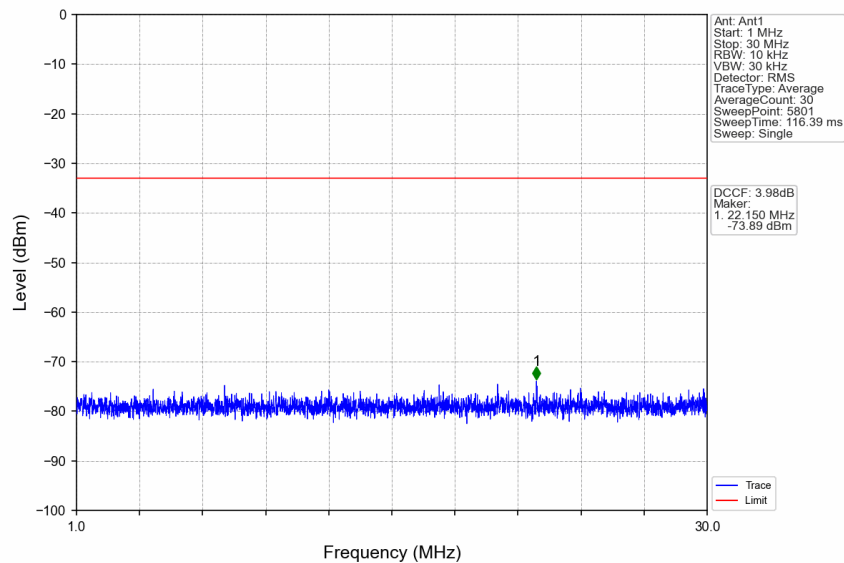


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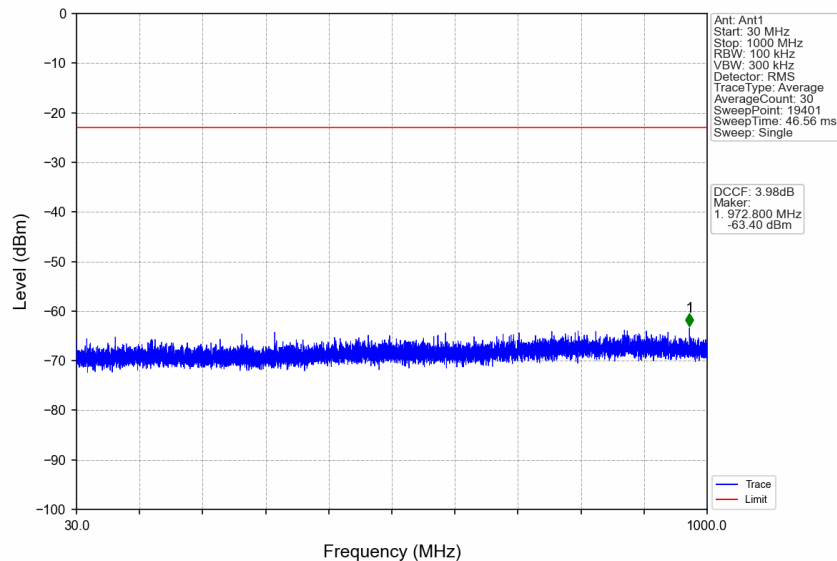
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n77a_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM_PI/2_BPSK_3712.5MHz_Edge_1RB_Left



n77a_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM_PI/2_BPSK_3712.5MHz_Edge_1RB_Left



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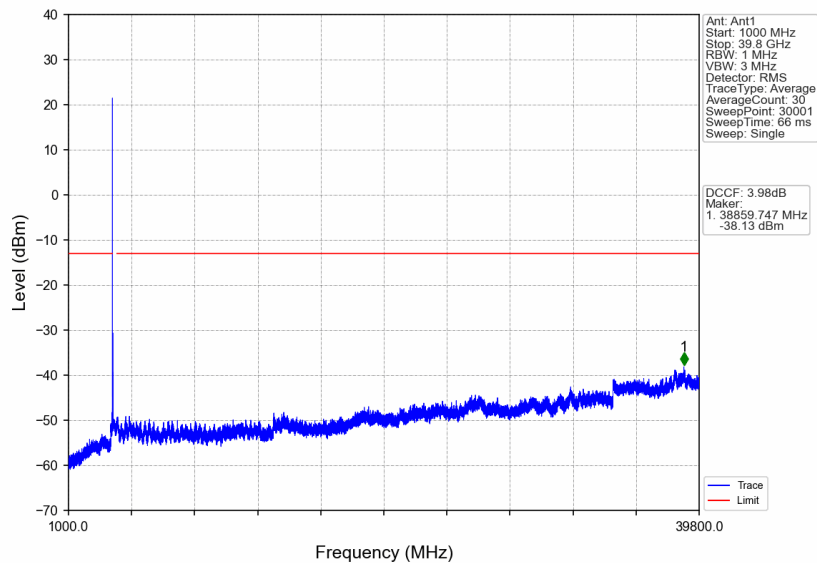


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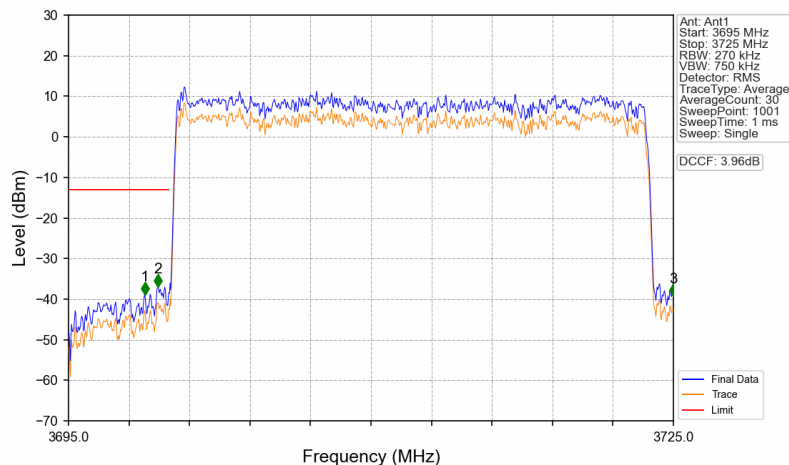
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n77a_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM PI/2 BPSK_3712.5MHz_Edge_1RB_Left



n77a_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM PI/2 BPSK_3712.5MHz_Outer_Full



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3695	3699	0.5	/	1	3698.780	-38.88	-13	Pass
3699	3700	0.27	/	2	3699.440	-36.95	-13	Pass
3700	3725	0.27	/	3	3725.000	-39.32	-13	Pass



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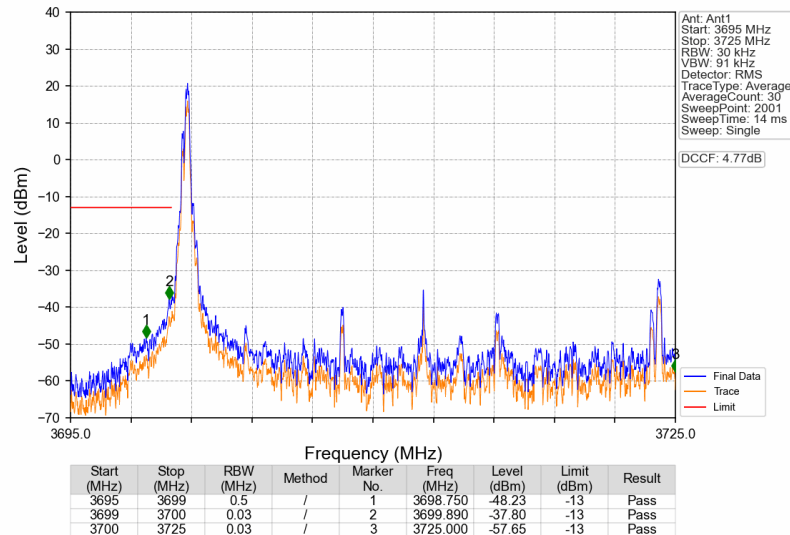


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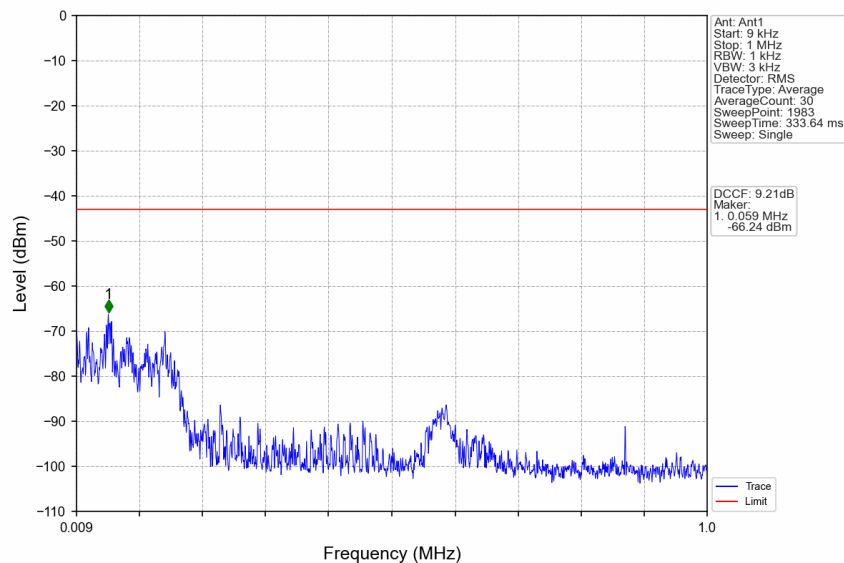
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n77a_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM PI/2 BPSK_3712.5MHz_Inner_1RB_Left



n77a_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM PI/2 BPSK_3840MHz_Edge_1RB_Left



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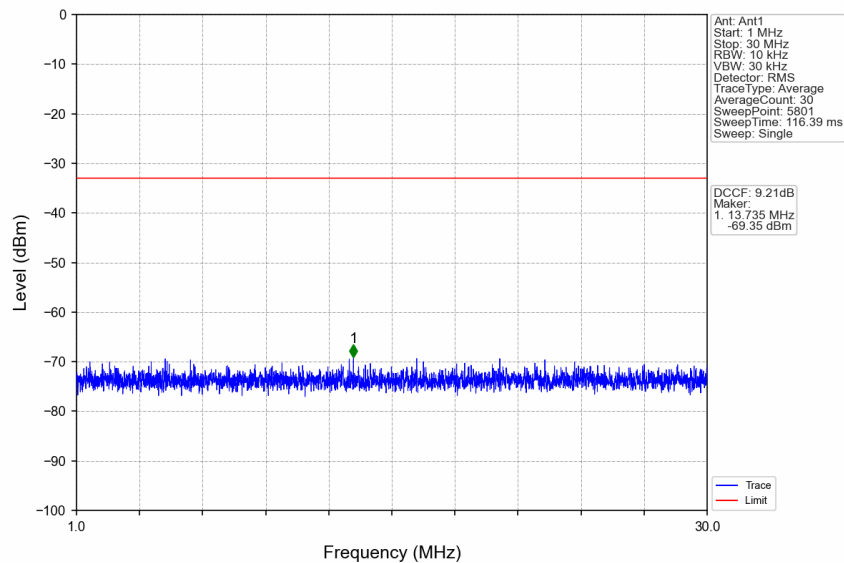


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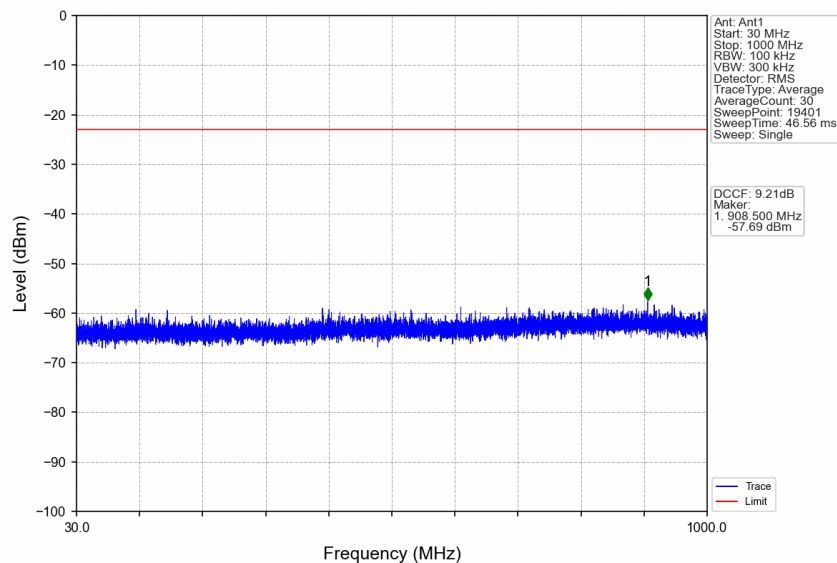
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n77a_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM PI/2 BPSK_3840MHz_Edge_1RB_Left



n77a_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM PI/2 BPSK_3840MHz_Edge_1RB_Left



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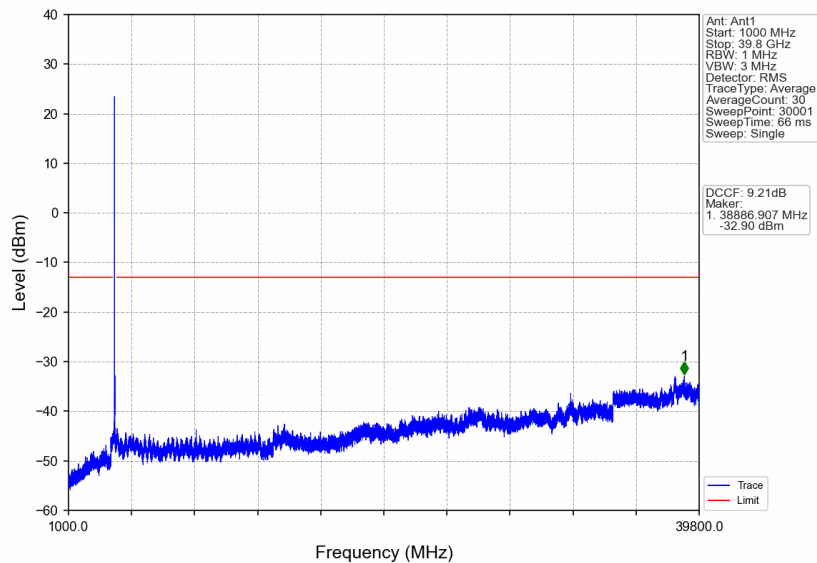


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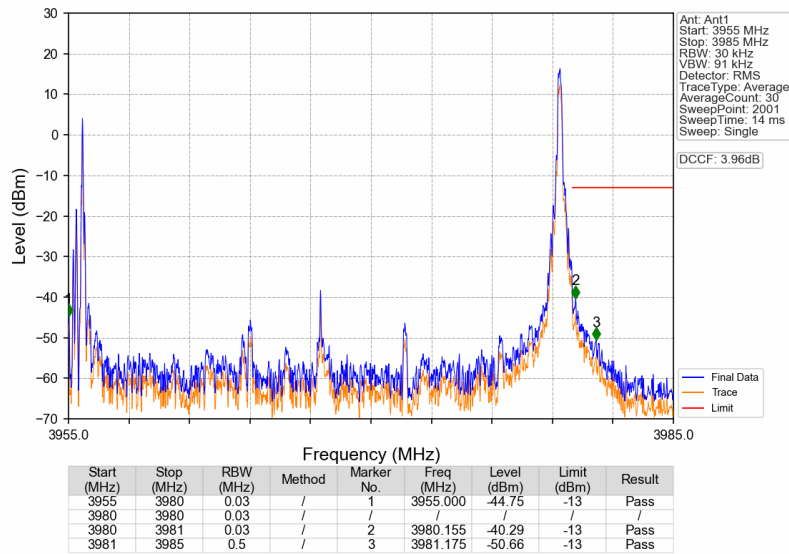
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n77a_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM PI/2 BPSK_3967.5MHz_Edge_1RB_Right



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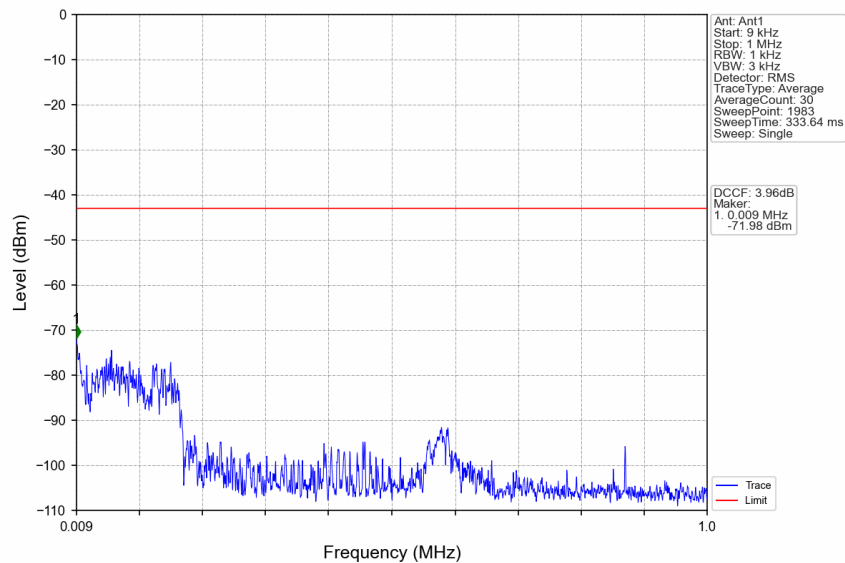
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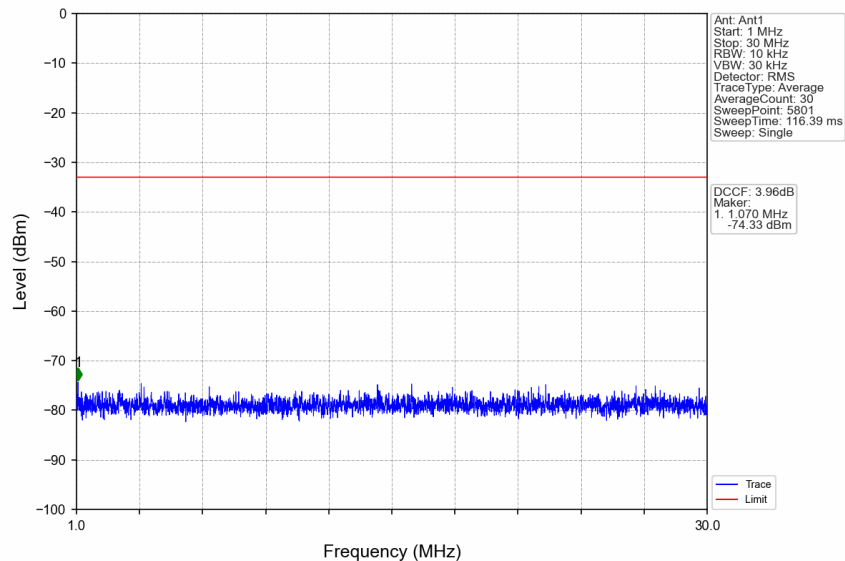
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