1. Effective (Isotropic) Radiated Power Output Data

1.1 15k_SISO_10MHz_NTNV_EIRP

1.1.1 Test Result

5G NR n30 SCS=15kHz SISO 10MHz NTNV										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			EIRP(dBm)				Verdict
			Ant2	Ant2*	Sum	Ant2	Ant2*	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2310	Edge_1RB_Left	23.24	/	/	23.54	/	/	<=23.98	Pass
		Edge_1RB_Right	23.13	/	/	23.43	/	/	<=23.98	Pass
		Outer_Full	23.25	/	/	23.55	/	/	<=23.98	Pass
		Inner_Full	23.35	/	/	23.65	/	/	<=23.98	Pass
		Inner_1RB_Left	23.18	/	/	23.48	/	/	<=23.98	Pass
		Inner_1RB_Right	23.23	/	/	23.53	/	/	<=23.98	Pass
DFT-s-OFDM QPSK	2310	Edge_1RB_Left	23.28	/	/	23.58	/	/	<=23.98	Pass
		Edge_1RB_Right	23.43	/	/	23.73	/	/	<=23.98	Pass
		Outer_Full	23.12	/	/	23.42	/	/	<=23.98	Pass
		Inner_Full	23.22	/	/	23.52	/	/	<=23.98	Pass
		Inner_1RB_Left	23.12	/	/	23.42	/	/	<=23.98	Pass
		Inner_1RB_Right	23.30	/	/	23.60	/	/	<=23.98	Pass
DFT-s-OFDM 16 QAM	2310	Edge_1RB_Left	22.12	/	/	22.42	/	/	<=23.98	Pass
		Edge_1RB_Right	22.14	/	/	22.44	/	/	<=23.98	Pass
		Outer_Full	22.26	/	/	22.56	/	/	<=23.98	Pass
		Inner_Full	23.30	/	/	23.60	/	/	<=23.98	Pass
		Inner_1RB_Left	23.13	/	/	23.43	/	/	<=23.98	Pass
		Inner_1RB_Right	23.16	/	/	23.46	/	/	<=23.98	Pass
DFT-s-OFDM 64 QAM	2310	Edge_1RB_Left	21.90	/	/	22.20	/	/	<=23.98	Pass
		Edge_1RB_Right	21.95	/	/	22.25	/	/	<=23.98	Pass
		Outer_Full	21.86	/	/	22.16	/	/	<=23.98	Pass
		Inner_Full	21.81	/	/	22.11	/	/	<=23.98	Pass
		Inner_1RB_Left	21.95	/	/	22.25	/	/	<=23.98	Pass
		Inner_1RB_Right	21.92	/	/	22.22	/	/	<=23.98	Pass
DFT-s-OFDM 256 QAM	2310	Edge_1RB_Left	19.17	/	/	19.47	/	/	<=23.98	Pass
		Edge_1RB_Right	19.17	/	/	19.47	/	/	<=23.98	Pass
		Outer_Full	19.80	/	/	20.10	/	/	<=23.98	Pass
		Inner_Full	19.75	/	/	20.05	/	/	<=23.98	Pass
		Inner_1RB_Left	19.14	/	/	19.44	/	/	<=23.98	Pass
		Inner_1RB_Right	19.20	/	/	19.50	/	/	<=23.98	Pass
CP-OFDM QPSK	2310	Edge_1RB_Left	21.09	/	/	21.39	/	/	<=23.98	Pass
		Edge_1RB_Right	21.57	/	/	21.87	/	/	<=23.98	Pass
		Outer_Full	21.26	/	/	21.56	/	/	<=23.98	Pass
		Inner_Full	22.74	/	/	23.04	/	/	<=23.98	Pass
		Inner_1RB_Left	22.50	/	/	22.80	/	/	<=23.98	Pass
		Inner_1RB_Right	22.72	/	/	23.02	/	/	<=23.98	Pass
CP-OFDM 16 QAM	2310	Edge_1RB_Left	21.32	/	/	21.62	/	/	<=23.98	Pass
		Edge_1RB_Right	21.33	/	/	21.63	/	/	<=23.98	Pass
		Outer_Full	21.19	/	/	21.49	/	/	<=23.98	Pass
		Inner_Full	22.26	/	/	22.56	/	/	<=23.98	Pass
		Inner_1RB_Left	22.37	/	/	22.67	/	/	<=23.98	Pass
		Inner_1RB_Right	22.39	/	/	22.69	/	/	<=23.98	Pass
CP-OFDM 64 QAM	2310	Edge_1RB_Left	20.90	/	/	21.20	/	/	<=23.98	Pass
		Edge_1RB_Right	20.99	/	/	21.29	/	/	<=23.98	Pass
		Outer_Full	20.72	/	/	21.02	/	/	<=23.98	Pass
		Inner_Full	20.81	/	/	21.11	/	/	<=23.98	Pass
		Inner_1RB_Left	20.79	/	/	21.09	/	/	<=23.98	Pass
		Inner_1RB_Right	20.90	/	/	21.20	/	/	<=23.98	Pass
CP-OFDM 256 QAM	2310	Edge_1RB_Left	17.33	/	/	17.63	/	/	<=23.98	Pass

		Edge_1RB_Right	17.30	/	/	17.60	/	/	<=23.98	Pass
		Outer_Full	17.61	/	/	17.91	/	/	<=23.98	Pass
		Inner_Full	17.74	/	/	18.04	/	/	<=23.98	Pass
		Inner_1RB_Left	17.30	/	/	17.60	/	/	<=23.98	Pass
		Inner_1RB_Right	17.23	/	/	17.53	/	/	<=23.98	Pass
Note1: Antenna Gain: Ant2: 0.30dBi; Note2: EIRP=Conducted Power+Antenna Gain										

1.2 15k_SISO_10MHz_NTNV_EIRP(dBm/5MHz)

1.2.1 Test Result

5G NR n30 SCS=15kHz SISO 10MHz NTNV										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm/5MHz)			EIRP(dBm/5MHz)				Verdict
			Ant2	Ant2*	Sum	Ant2	Ant2*	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2310	Edge_1RB_Left	22.94	/	/	23.24	/	/	<=23.98	Pass
		Edge_1RB_Right	22.47	/	/	22.77	/	/	<=23.98	Pass
		Outer_Full	22.70	/	/	23.00	/	/	<=23.98	Pass
		Inner_Full	23.04	/	/	23.34	/	/	<=23.98	Pass
		Inner_1RB_Left	22.82	/	/	23.12	/	/	<=23.98	Pass
		Inner_1RB_Right	22.64	/	/	22.94	/	/	<=23.98	Pass
DFT-s-OFDM QPSK	2310	Edge_1RB_Left	23.04	/	/	23.34	/	/	<=23.98	Pass
		Edge_1RB_Right	22.63	/	/	22.93	/	/	<=23.98	Pass
		Outer_Full	22.69	/	/	22.99	/	/	<=23.98	Pass
		Inner_Full	22.68	/	/	22.98	/	/	<=23.98	Pass
		Inner_1RB_Left	22.79	/	/	23.09	/	/	<=23.98	Pass
		Inner_1RB_Right	22.67	/	/	22.97	/	/	<=23.98	Pass
DFT-s-OFDM 16 QAM	2310	Edge_1RB_Left	21.98	/	/	22.28	/	/	<=23.98	Pass
		Edge_1RB_Right	21.43	/	/	21.73	/	/	<=23.98	Pass
		Outer_Full	21.56	/	/	21.86	/	/	<=23.98	Pass
		Inner_Full	22.75	/	/	23.05	/	/	<=23.98	Pass
		Inner_1RB_Left	22.87	/	/	23.17	/	/	<=23.98	Pass
		Inner_1RB_Right	22.51	/	/	22.81	/	/	<=23.98	Pass
DFT-s-OFDM 64 QAM	2310	Edge_1RB_Left	21.71	/	/	22.01	/	/	<=23.98	Pass
		Edge_1RB_Right	21.10	/	/	21.40	/	/	<=23.98	Pass
		Outer_Full	21.37	/	/	21.67	/	/	<=23.98	Pass
		Inner_Full	21.22	/	/	21.52	/	/	<=23.98	Pass
		Inner_1RB_Left	21.53	/	/	21.83	/	/	<=23.98	Pass
		Inner_1RB_Right	21.22	/	/	21.52	/	/	<=23.98	Pass
DFT-s-OFDM 256 QAM	2310	Edge_1RB_Left	18.93	/	/	19.23	/	/	<=23.98	Pass
		Edge_1RB_Right	18.57	/	/	18.87	/	/	<=23.98	Pass
		Outer_Full	19.25	/	/	19.55	/	/	<=23.98	Pass
		Inner_Full	19.26	/	/	19.56	/	/	<=23.98	Pass
		Inner_1RB_Left	18.90	/	/	19.20	/	/	<=23.98	Pass
		Inner_1RB_Right	18.61	/	/	18.91	/	/	<=23.98	Pass
CP-OFDM QPSK	2310	Edge_1RB_Left	20.90	/	/	21.20	/	/	<=23.98	Pass
		Edge_1RB_Right	20.87	/	/	21.17	/	/	<=23.98	Pass
		Outer_Full	20.81	/	/	21.11	/	/	<=23.98	Pass
		Inner_Full	22.33	/	/	22.63	/	/	<=23.98	Pass
		Inner_1RB_Left	22.42	/	/	22.72	/	/	<=23.98	Pass
		Inner_1RB_Right	22.24	/	/	22.54	/	/	<=23.98	Pass
CP-OFDM 16 QAM	2310	Edge_1RB_Left	21.37	/	/	21.67	/	/	<=23.98	Pass
		Edge_1RB_Right	20.67	/	/	20.97	/	/	<=23.98	Pass
		Outer_Full	20.75	/	/	21.05	/	/	<=23.98	Pass
		Inner_Full	21.80	/	/	22.10	/	/	<=23.98	Pass
		Inner_1RB_Left	21.89	/	/	22.19	/	/	<=23.98	Pass
		Inner_1RB_Right	21.92	/	/	22.22	/	/	<=23.98	Pass

CP-OFDM 64 QAM	2310	Edge_1RB_Left	20.64	/	/	20.94	/	/	<=23.98	Pass
		Edge_1RB_Right	20.43	/	/	20.73	/	/	<=23.98	Pass
		Outer_Full	20.29	/	/	20.59	/	/	<=23.98	Pass
		Inner_Full	20.31	/	/	20.61	/	/	<=23.98	Pass
		Inner_1RB_Left	20.55	/	/	20.85	/	/	<=23.98	Pass
		Inner_1RB_Right	20.15	/	/	20.45	/	/	<=23.98	Pass
CP-OFDM 256 QAM	2310	Edge_1RB_Left	17.28	/	/	17.58	/	/	<=23.98	Pass
		Edge_1RB_Right	16.65	/	/	16.95	/	/	<=23.98	Pass
		Outer_Full	17.12	/	/	17.42	/	/	<=23.98	Pass
		Inner_Full	17.16	/	/	17.46	/	/	<=23.98	Pass
		Inner_1RB_Left	16.83	/	/	17.13	/	/	<=23.98	Pass
		Inner_1RB_Right	16.48	/	/	16.78	/	/	<=23.98	Pass
Note1: Antenna Gain: Ant2: 0.30dBi; Note2: EIRP=Conducted Power+Antenna Gain										

2. Frequency Stability

2.1 15k_SISO_10MHz

2.1.1 Test Result

5G NR n30 SCS=15kHz SISO 10MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	2310	Outer_Full	20	LV	-9.60	-0.0042	>=-2.5 & <=2.5	Pass
				HV	-9.00	-0.0039	>=-2.5 & <=2.5	Pass
			-30	NV	-7.80	-0.0034	>=-2.5 & <=2.5	Pass
			-20	NV	-8.60	-0.0037	>=-2.5 & <=2.5	Pass
			-10	NV	-5.50	-0.0024	>=-2.5 & <=2.5	Pass
			0	NV	-6.90	-0.0030	>=-2.5 & <=2.5	Pass
			10	NV	-7.70	-0.0033	>=-2.5 & <=2.5	Pass
			20	NV	-8.30	-0.0036	>=-2.5 & <=2.5	Pass
			30	NV	-7.20	-0.0031	>=-2.5 & <=2.5	Pass
			40	NV	-8.80	-0.0038	>=-2.5 & <=2.5	Pass
			50	NV	-5.40	-0.0023	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	2310	Outer_Full	20	LV	-7.10	-0.0031	>=-2.5 & <=2.5	Pass
				HV	-6.10	-0.0026	>=-2.5 & <=2.5	Pass
			-30	NV	-5.40	-0.0023	>=-2.5 & <=2.5	Pass
			-20	NV	-7.00	-0.0030	>=-2.5 & <=2.5	Pass
			-10	NV	-9.50	-0.0041	>=-2.5 & <=2.5	Pass
			0	NV	-6.50	-0.0028	>=-2.5 & <=2.5	Pass
			10	NV	-8.00	-0.0035	>=-2.5 & <=2.5	Pass
			20	NV	-3.60	-0.0016	>=-2.5 & <=2.5	Pass
			30	NV	-6.00	-0.0026	>=-2.5 & <=2.5	Pass
			40	NV	-7.70	-0.0033	>=-2.5 & <=2.5	Pass
			50	NV	-8.10	-0.0035	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	2310	Outer_Full	20	LV	-5.50	-0.0024	>=-2.5 & <=2.5	Pass
				HV	-6.40	-0.0028	>=-2.5 & <=2.5	Pass
			-30	NV	-3.10	-0.0013	>=-2.5 & <=2.5	Pass
			-20	NV	-9.10	-0.0039	>=-2.5 & <=2.5	Pass
			-10	NV	-4.30	-0.0019	>=-2.5 & <=2.5	Pass
			0	NV	-4.30	-0.0019	>=-2.5 & <=2.5	Pass
			10	NV	-5.80	-0.0025	>=-2.5 & <=2.5	Pass
			20	NV	-6.20	-0.0027	>=-2.5 & <=2.5	Pass

			30	NV	-5.00	-0.0022	>=-2.5 & <=2.5	Pass
			40	NV	-1.50	-0.0006	>=-2.5 & <=2.5	Pass
			50	NV	-7.00	-0.0030	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 64 QAM	2310	Outer_Full	20	LV	-7.70	-0.0033	>=-2.5 & <=2.5	Pass
				HV	-6.10	-0.0026	>=-2.5 & <=2.5	Pass
			-30	NV	-5.10	-0.0022	>=-2.5 & <=2.5	Pass
			-20	NV	-7.80	-0.0034	>=-2.5 & <=2.5	Pass
			-10	NV	-9.60	-0.0042	>=-2.5 & <=2.5	Pass
			0	NV	-8.90	-0.0039	>=-2.5 & <=2.5	Pass
			10	NV	-5.40	-0.0023	>=-2.5 & <=2.5	Pass
			20	NV	1.30	0.0006	>=-2.5 & <=2.5	Pass
			30	NV	-10.30	-0.0045	>=-2.5 & <=2.5	Pass
			40	NV	-7.30	-0.0032	>=-2.5 & <=2.5	Pass
			50	NV	-8.40	-0.0036	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 256 QAM	2310	Outer_Full	20	LV	-4.90	-0.0021	>=-2.5 & <=2.5	Pass
				HV	-4.50	-0.0019	>=-2.5 & <=2.5	Pass
			-30	NV	-9.20	-0.0040	>=-2.5 & <=2.5	Pass
			-20	NV	-4.80	-0.0021	>=-2.5 & <=2.5	Pass
			-10	NV	-5.60	-0.0024	>=-2.5 & <=2.5	Pass
			0	NV	-7.70	-0.0033	>=-2.5 & <=2.5	Pass
			10	NV	-5.30	-0.0023	>=-2.5 & <=2.5	Pass
			20	NV	-4.20	-0.0018	>=-2.5 & <=2.5	Pass
			30	NV	-7.30	-0.0032	>=-2.5 & <=2.5	Pass
			40	NV	-7.30	-0.0032	>=-2.5 & <=2.5	Pass
			50	NV	-5.20	-0.0023	>=-2.5 & <=2.5	Pass
CP-OFDM QPSK	2310	Outer_Full	20	LV	-7.20	-0.0031	>=-2.5 & <=2.5	Pass
				HV	-7.80	-0.0034	>=-2.5 & <=2.5	Pass
			-30	NV	-7.20	-0.0031	>=-2.5 & <=2.5	Pass
			-20	NV	-8.30	-0.0036	>=-2.5 & <=2.5	Pass
			-10	NV	-3.70	-0.0016	>=-2.5 & <=2.5	Pass
			0	NV	-9.40	-0.0041	>=-2.5 & <=2.5	Pass
			10	NV	-4.40	-0.0019	>=-2.5 & <=2.5	Pass
			20	NV	-7.90	-0.0034	>=-2.5 & <=2.5	Pass
			30	NV	-8.00	-0.0035	>=-2.5 & <=2.5	Pass
			40	NV	-6.30	-0.0027	>=-2.5 & <=2.5	Pass
			50	NV	-3.40	-0.0015	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	2310	Outer_Full	20	LV	-6.80	-0.0029	>=-2.5 & <=2.5	Pass
				HV	-7.30	-0.0032	>=-2.5 & <=2.5	Pass
			-30	NV	-8.50	-0.0037	>=-2.5 & <=2.5	Pass
			-20	NV	-6.00	-0.0026	>=-2.5 & <=2.5	Pass
			-10	NV	-6.80	-0.0029	>=-2.5 & <=2.5	Pass
			0	NV	-8.70	-0.0038	>=-2.5 & <=2.5	Pass
			10	NV	-9.20	-0.0040	>=-2.5 & <=2.5	Pass
			20	NV	-9.30	-0.0040	>=-2.5 & <=2.5	Pass
			30	NV	-4.00	-0.0017	>=-2.5 & <=2.5	Pass
			40	NV	-6.50	-0.0028	>=-2.5 & <=2.5	Pass
			50	NV	-9.70	-0.0042	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	2310	Outer_Full	20	LV	-4.00	-0.0017	>=-2.5 & <=2.5	Pass
				HV	-4.80	-0.0021	>=-2.5 & <=2.5	Pass
			-30	NV	-2.60	-0.0011	>=-2.5 & <=2.5	Pass
			-20	NV	-4.70	-0.0020	>=-2.5 & <=2.5	Pass
			-10	NV	-5.70	-0.0025	>=-2.5 & <=2.5	Pass
			0	NV	-7.20	-0.0031	>=-2.5 & <=2.5	Pass
			10	NV	-4.40	-0.0019	>=-2.5 & <=2.5	Pass
			20	NV	-9.80	-0.0042	>=-2.5 & <=2.5	Pass
			30	NV	-2.90	-0.0013	>=-2.5 & <=2.5	Pass
			40	NV	-6.30	-0.0027	>=-2.5 & <=2.5	Pass
			50	NV	-4.20	-0.0018	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	2310	Outer_Full	20	LV	-9.00	-0.0039	>=-2.5 & <=2.5	Pass

				HV	-7.40	-0.0032	>=-2.5 & <=2.5	Pass
			-30	NV	-4.30	-0.0019	>=-2.5 & <=2.5	Pass
			-20	NV	-8.90	-0.0039	>=-2.5 & <=2.5	Pass
			-10	NV	-8.40	-0.0036	>=-2.5 & <=2.5	Pass
			0	NV	-7.10	-0.0031	>=-2.5 & <=2.5	Pass
			10	NV	-7.70	-0.0033	>=-2.5 & <=2.5	Pass
			20	NV	-6.10	-0.0026	>=-2.5 & <=2.5	Pass
			30	NV	-3.70	-0.0016	>=-2.5 & <=2.5	Pass
			40	NV	-5.20	-0.0023	>=-2.5 & <=2.5	Pass
			50	NV	-6.90	-0.0030	>=-2.5 & <=2.5	Pass

3. 99% & 26dB Bandwidth

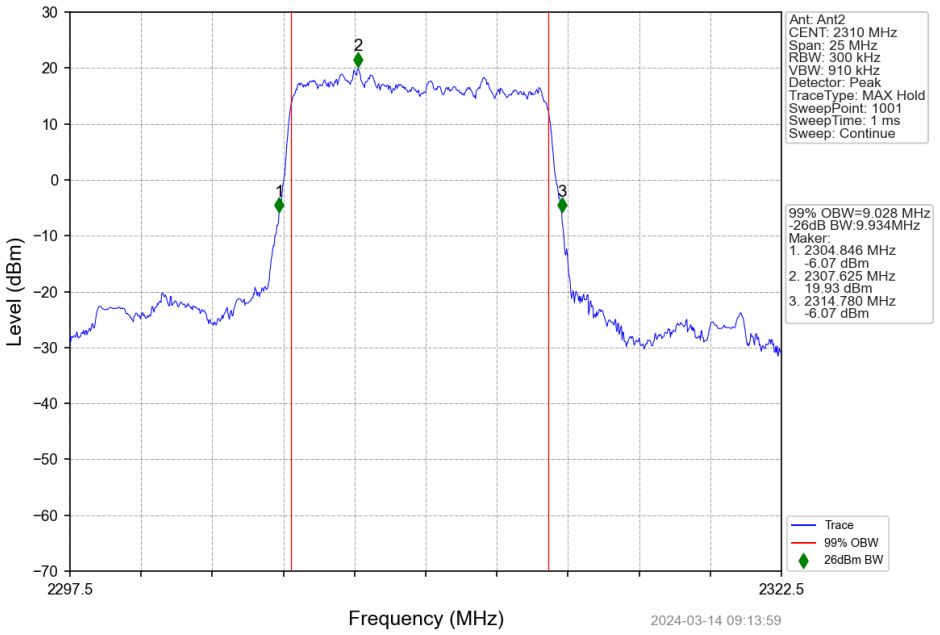
3.1 15k_SISO_10MHz_NTNV

3.1.1 Test Result

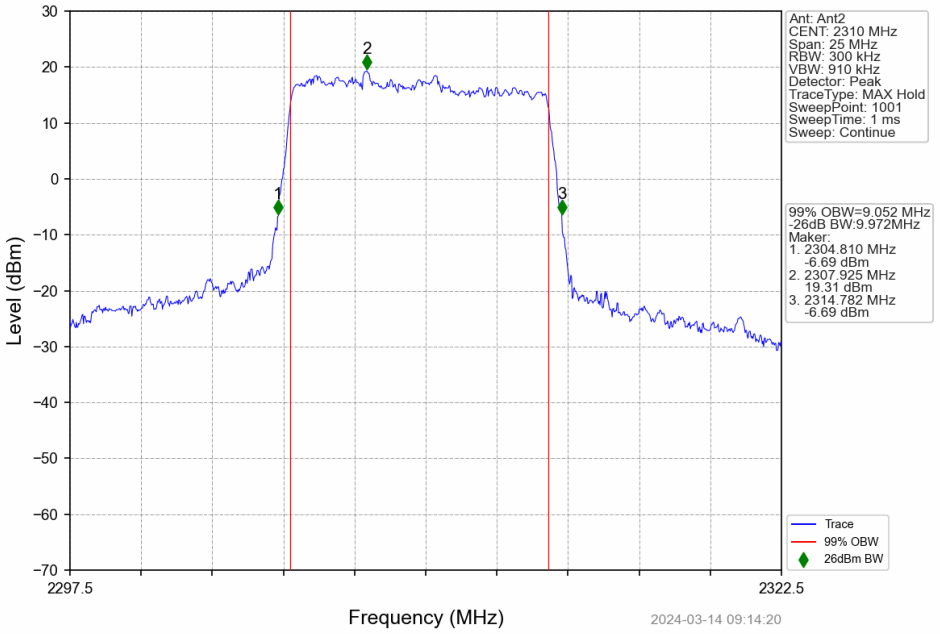
5G NR n30 SCS=15kHz SISO 10MHz NTNV						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2310	Outer_Full	9.03	9.93	/	Pass
DFT-s-OFDM QPSK	2310	Outer_Full	9.05	9.97	/	Pass
DFT-s-OFDM 16 QAM	2310	Outer_Full	9.05	9.98	/	Pass
DFT-s-OFDM 64 QAM	2310	Outer_Full	9.03	9.95	/	Pass
DFT-s-OFDM 256 QAM	2310	Outer_Full	9.07	9.97	/	Pass
CP-OFDM QPSK	2310	Outer_Full	9.39	10.51	/	Pass
CP-OFDM 16 QAM	2310	Outer_Full	9.39	10.46	/	Pass
CP-OFDM 64 QAM	2310	Outer_Full	9.36	10.36	/	Pass
CP-OFDM 256 QAM	2310	Outer_Full	9.41	10.39	/	Pass

3.1.2 Test Graph

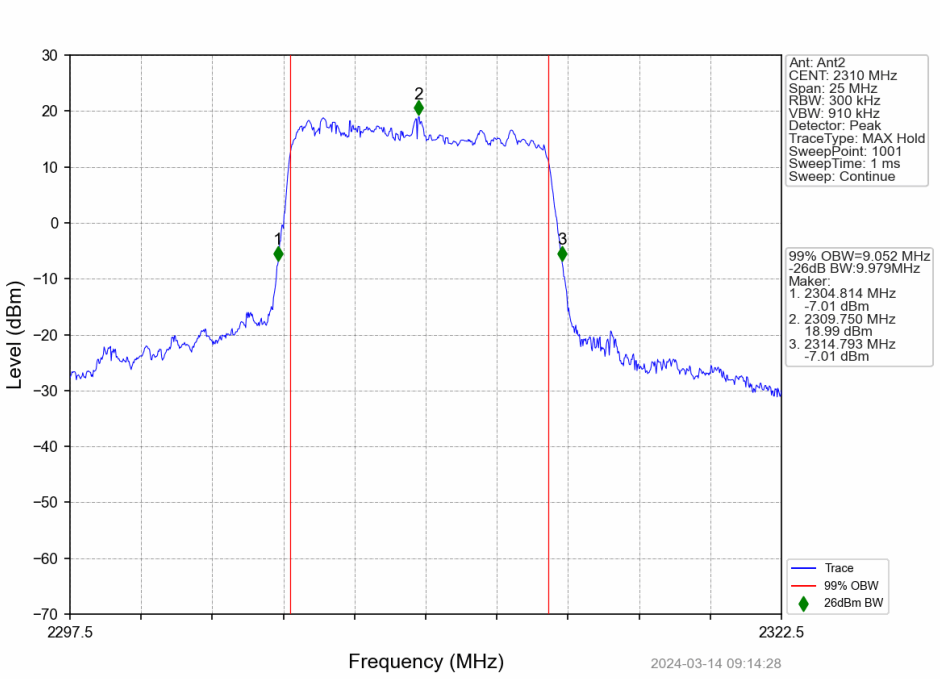
n30_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_2310MHz_Outer_Full



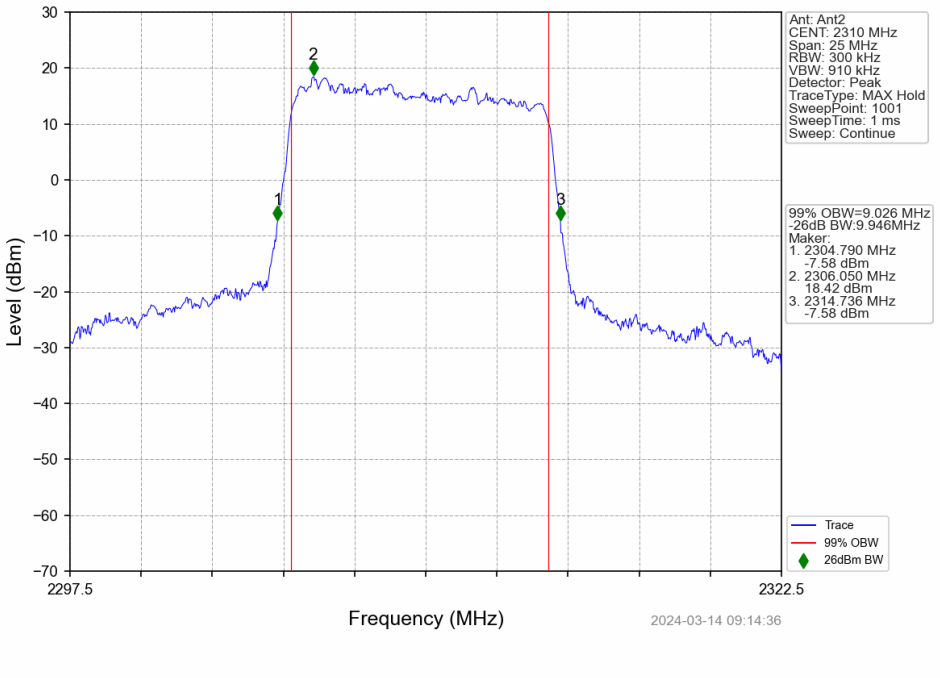
n30_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_2310MHz_Outer_Full



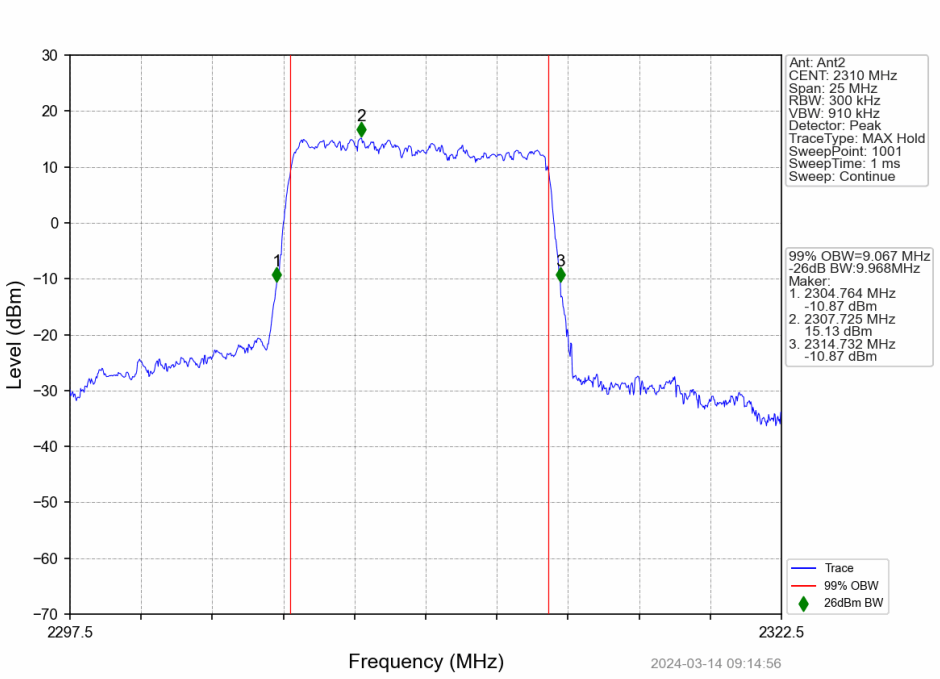
n30_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 16 QAM_2310MHz_Outer_Full



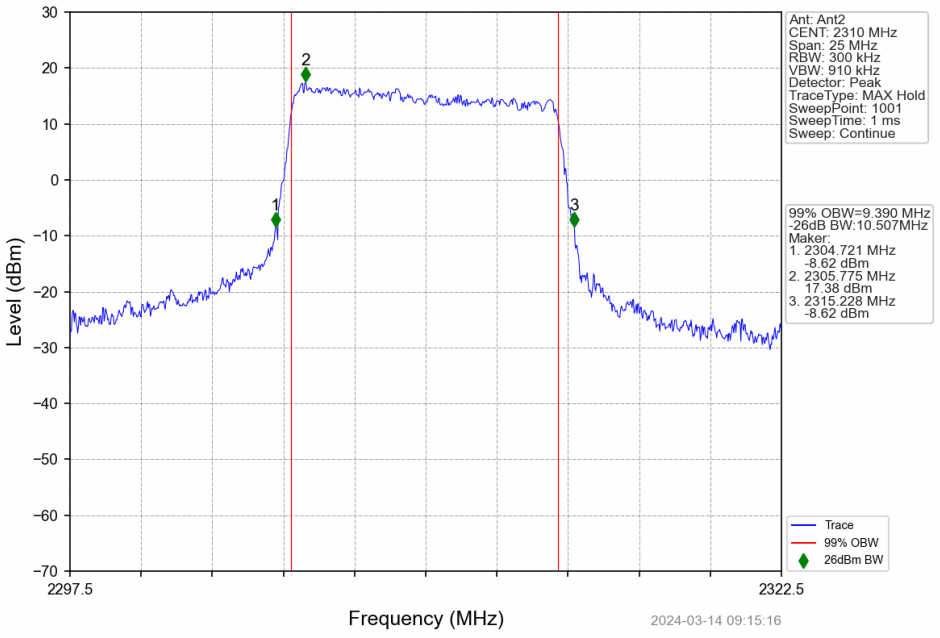
n30_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 64 QAM_2310MHz_Outer_Full



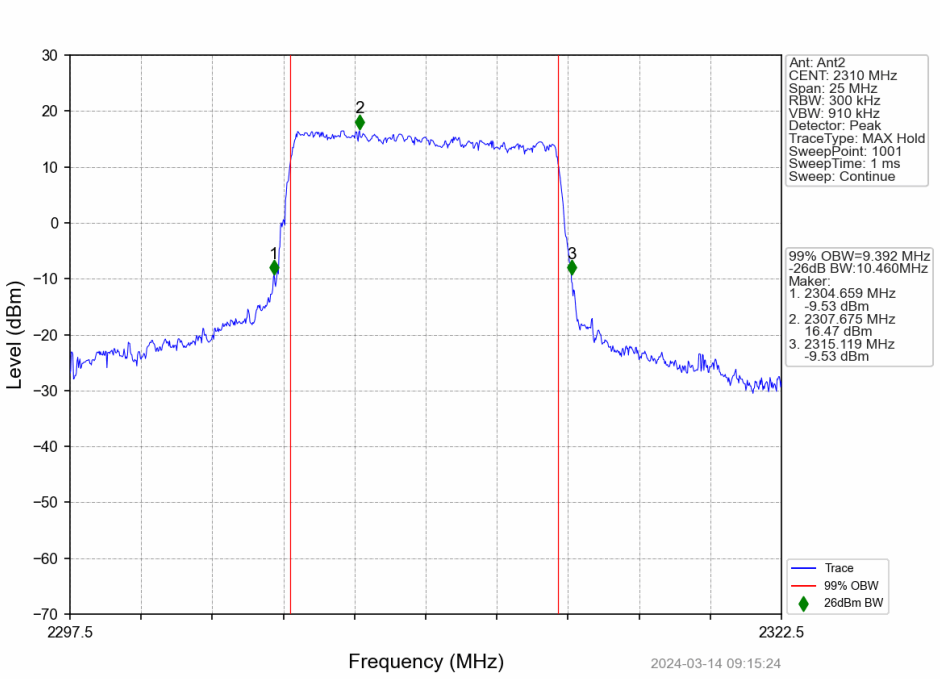
n30_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 256 QAM_2310MHz_Outer_Full



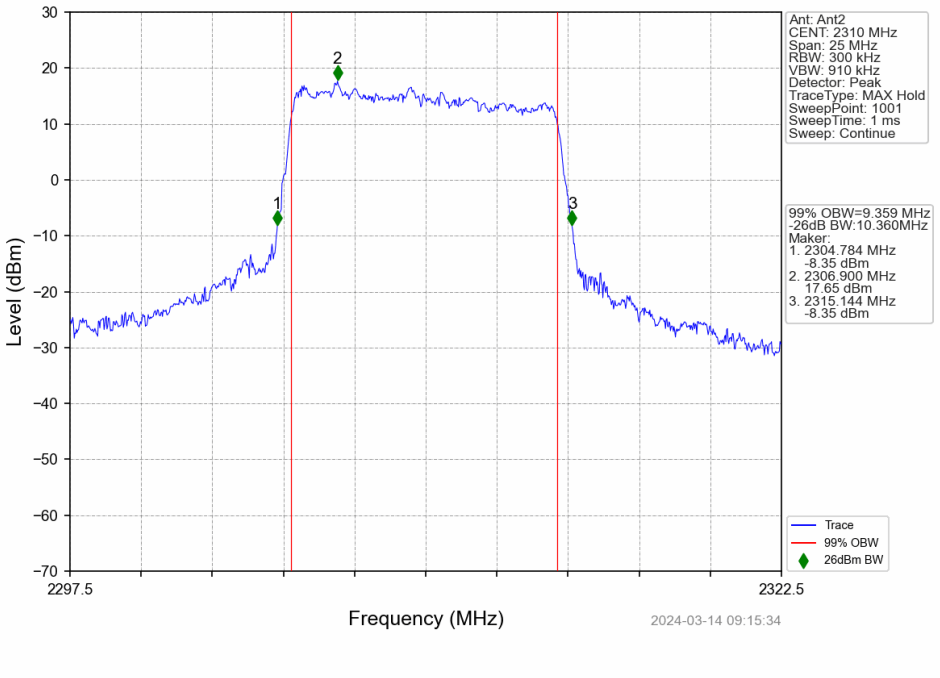
n30_15kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_2310MHz_Outer_Full



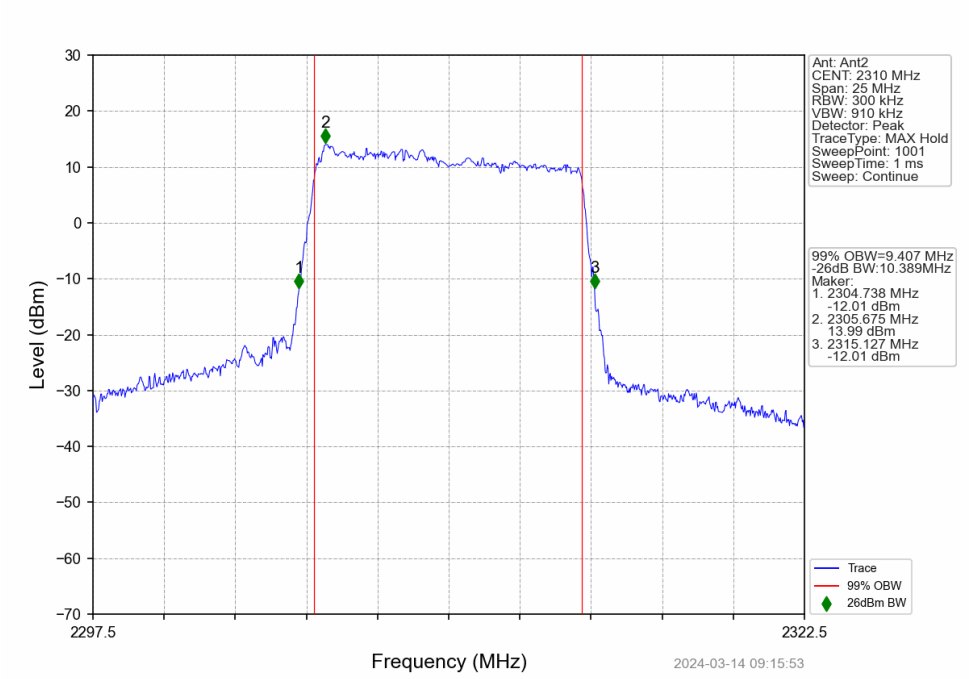
n30_15kHz_SISO_NTNV_10MHz_CP-OFDM 16 QAM_2310MHz_Outer_Full



n30_15kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_2310MHz_Outer_Full



n30_15kHz_SISO_NTNV_10MHz_CP-OFDM 256 QAM_2310MHz_Outer_Full



4. Peak-Average Ratio

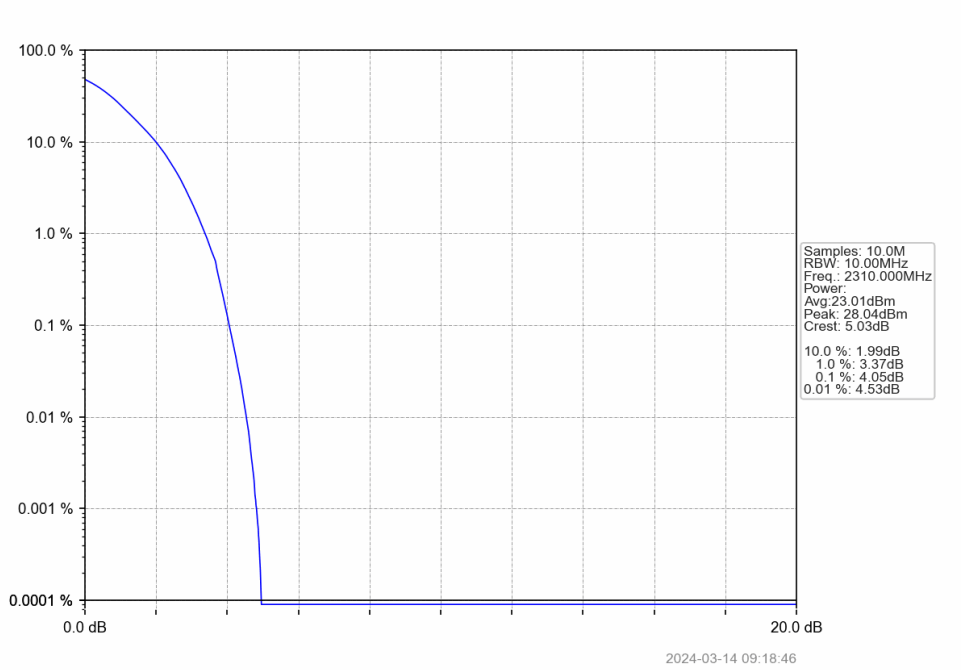
4.1 15k_SISO_10MHz_NTNV

4.1.1 Test Result

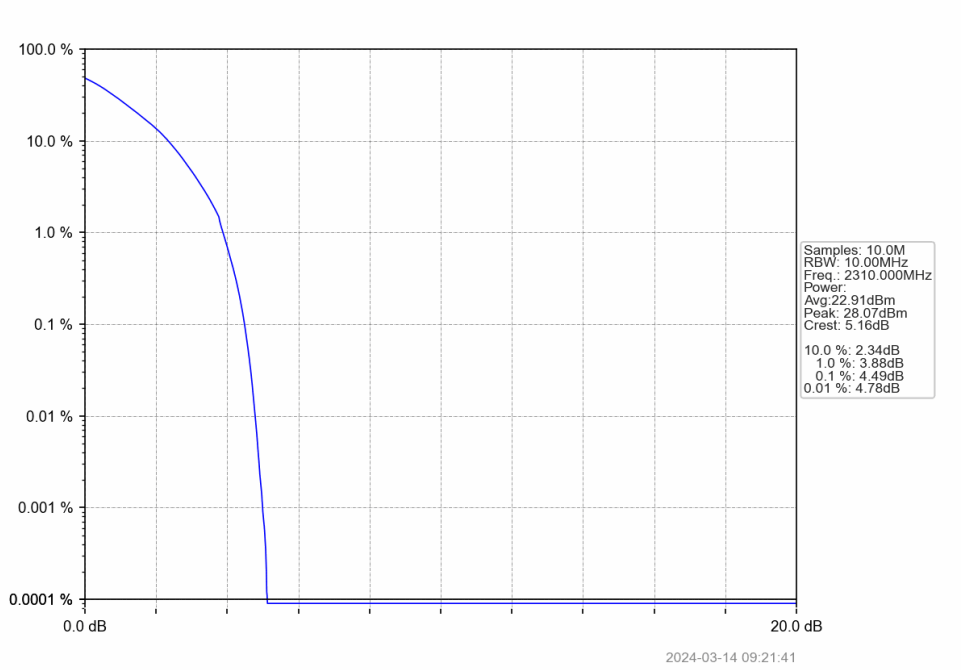
5G NR n30 SCS=15kHz SISO 10MHz NTNV							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant2	Ant2*	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2310	Outer_Full	4.05	/	/	<=13	Pass
DFT-s-OFDM QPSK	2310	Outer_Full	4.49	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	2310	Outer_Full	5.42	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	2310	Outer_Full	5.71	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	2310	Outer_Full	6.46	/	/	<=13	Pass
CP-OFDM QPSK	2310	Outer_Full	6.63	/	/	<=13	Pass
CP-OFDM 16 QAM	2310	Outer_Full	6.66	/	/	<=13	Pass
CP-OFDM 64 QAM	2310	Outer_Full	7.01	/	/	<=13	Pass
CP-OFDM 256 QAM	2310	Outer_Full	8.54	/	/	<=13	Pass

3.1.2 Test Graph

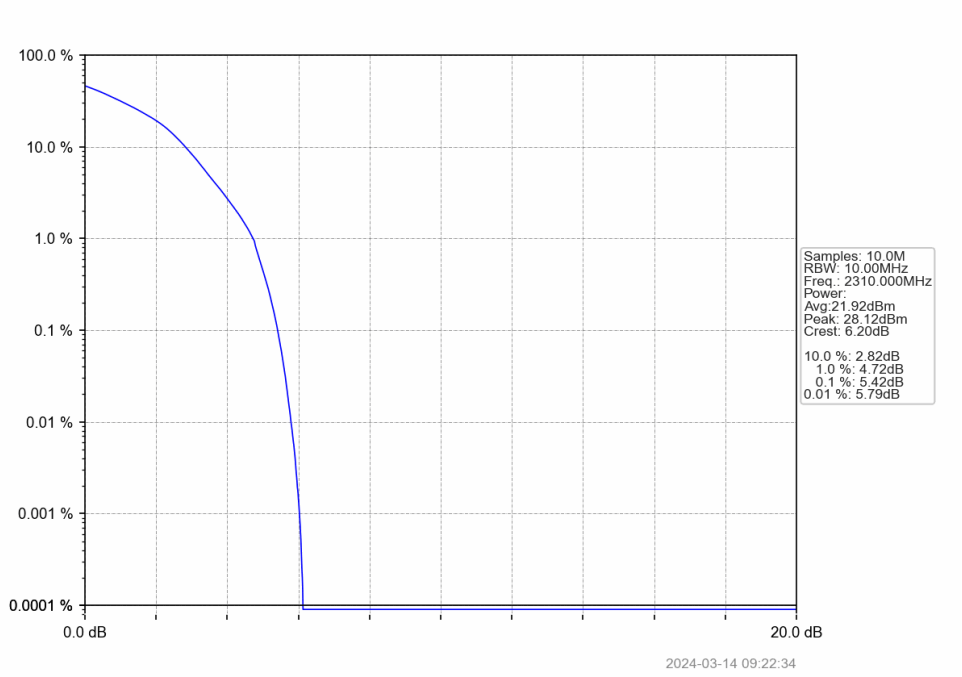
n30_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_2310MHz_Outer_Full



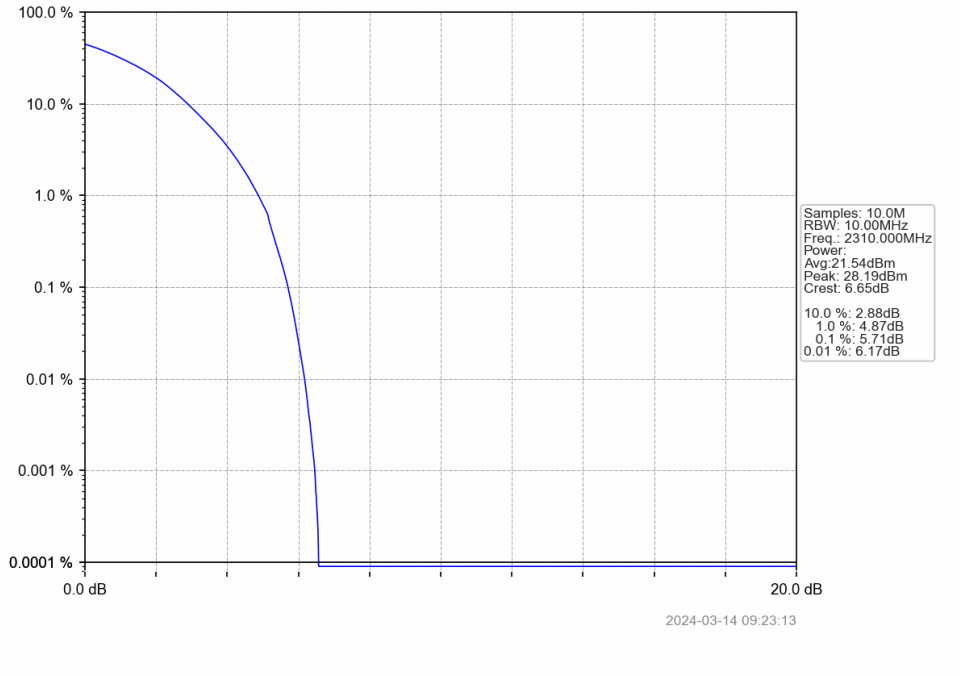
n30_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_2310MHz_Outer_Full



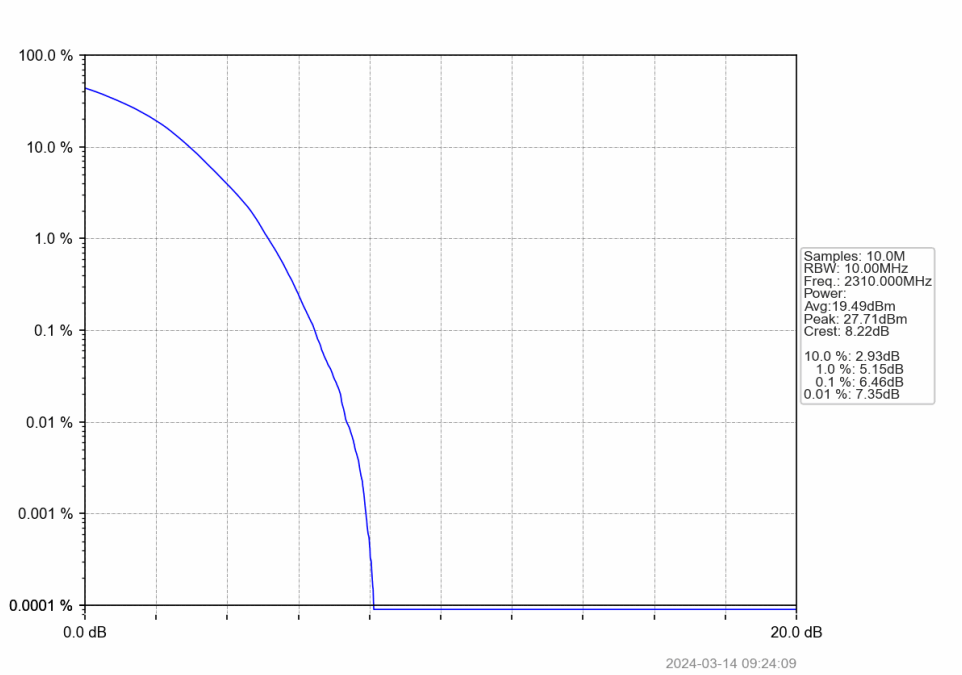
n30_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 16 QAM_2310MHz_Outer_Full



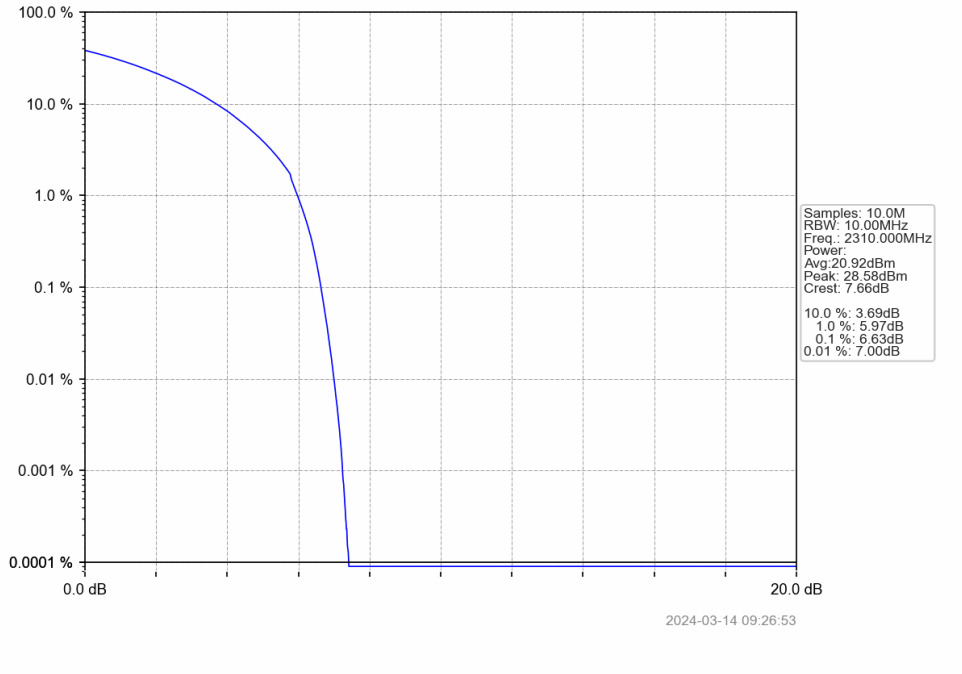
n30_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 64 QAM_2310MHz_Outer_Full



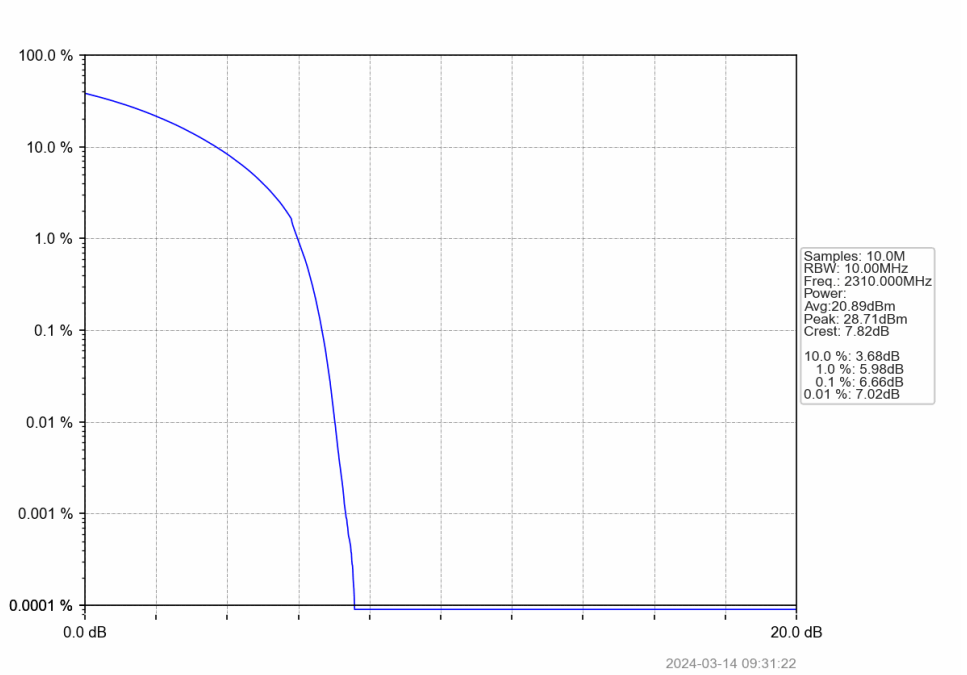
n30_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 256 QAM_2310MHz_Outer_Full



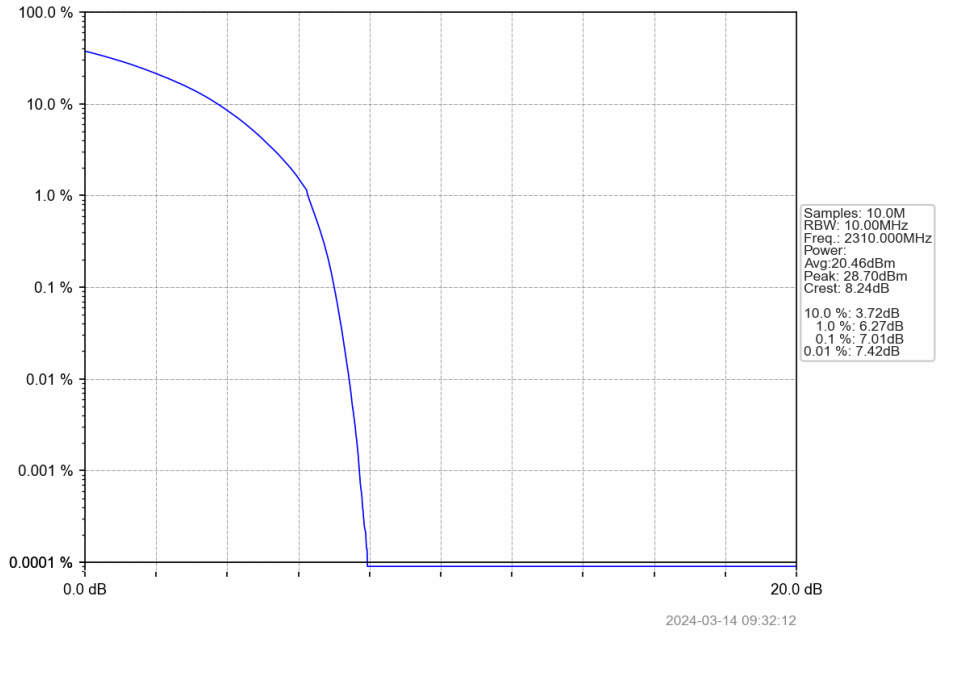
n30_15kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_2310MHz_Outer_Full



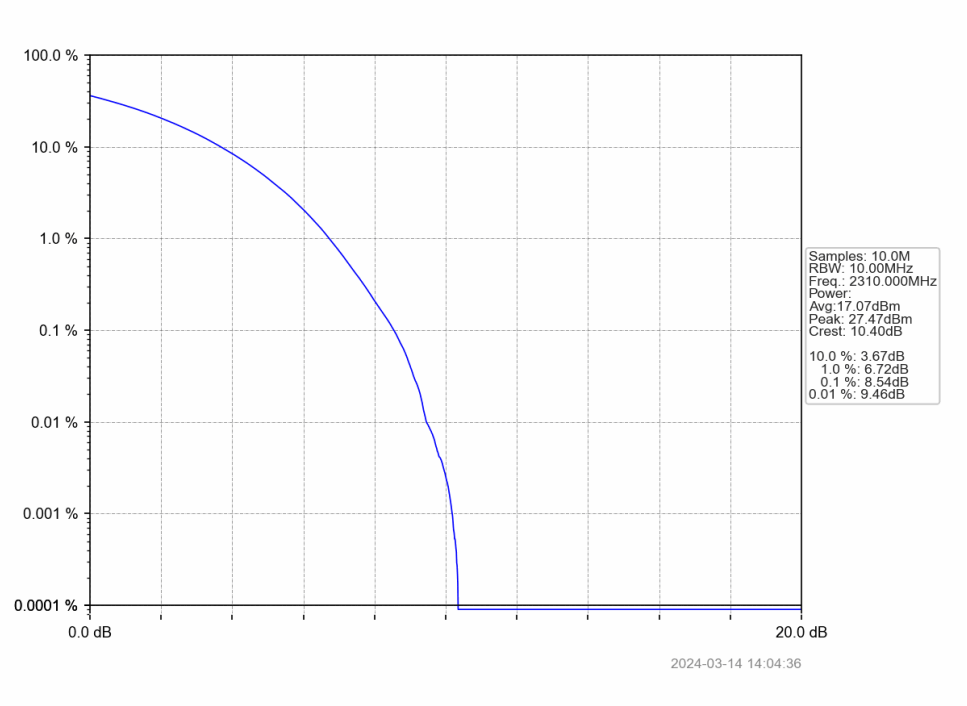
n30_15kHz_SISO_NTNV_10MHz_CP-OFDM 16 QAM_2310MHz_Outer_Full



n30_15kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_2310MHz_Outer_Full



n30_15kHz_SISO_NTNV_10MHz_CP-OFDM 256 QAM_2310MHz_Outer_Full



5. Spurious Emission

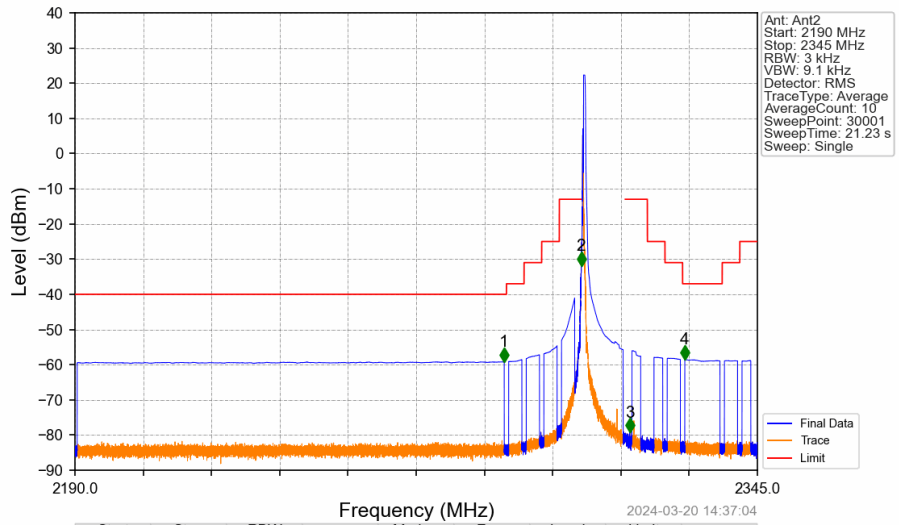
5.1 15k_SISO_10MHz_NTNV

5.1.1 Test Result

5G NR n30 SCS=15kHz SISO 10MHz NTNV							
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission				Verdict
			Ant2	Ant2*	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2310	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
		Inner_1RB_Left	Refer To Test Graph				Pass
	2310	Edge_1RB_Left	Refer To Test Graph				Pass
	2310	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	2310	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
		Inner_1RB_Left	Refer To Test Graph				Pass
	2310	Edge_1RB_Left	Refer To Test Graph				Pass
	2310	Edge_1RB_Right	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
		Inner_1RB_Right	Refer To Test Graph				Pass

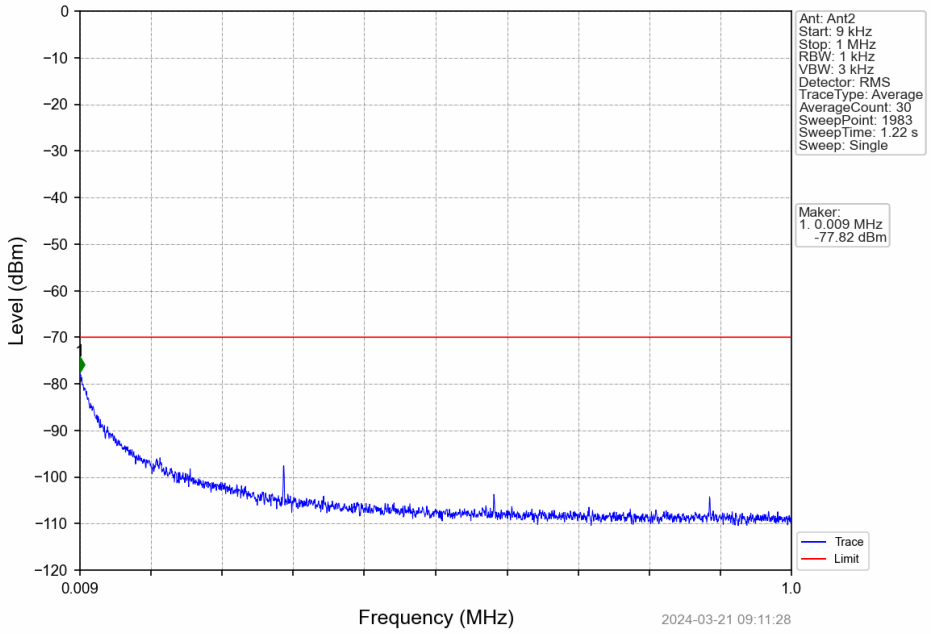
4.1.2 Test Graph

n30_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_2310MHz_Edge_1RB_Left

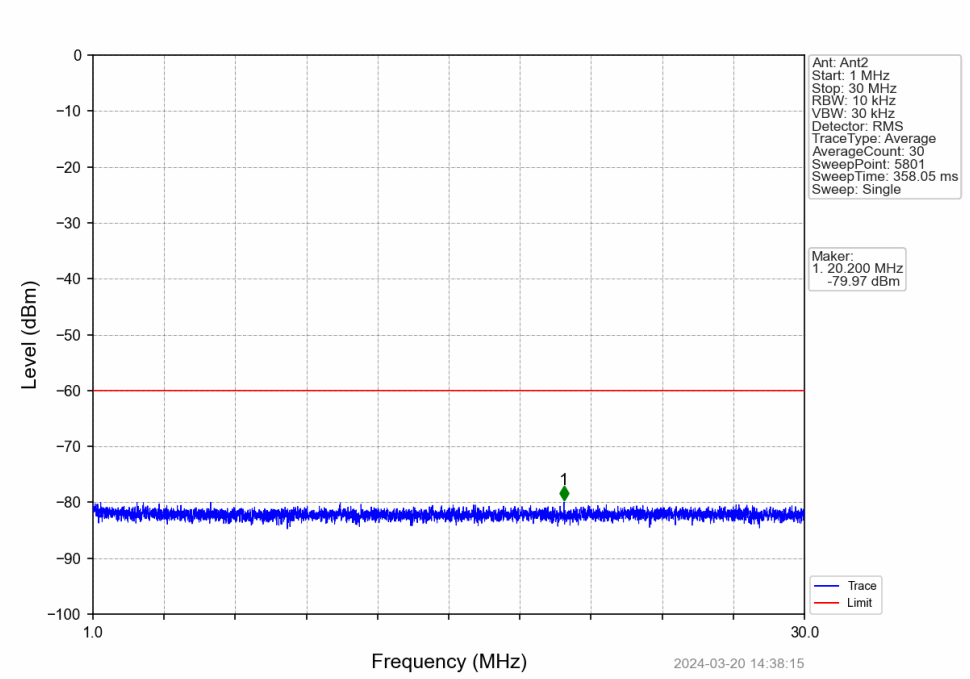


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2304	1	CHP	1	2287.392	-59.16	-40	Pass
2304	2305	0.003	/	2	2304.989	-31.88	-13	Pass
2305	2315	1	CHP	/	/	/	/	/
2315	2316	0.003	/	3	2315.999	-79.19	-13	Pass
2316	2345	1	CHP	4	2328.518	-58.51	-37	Pass

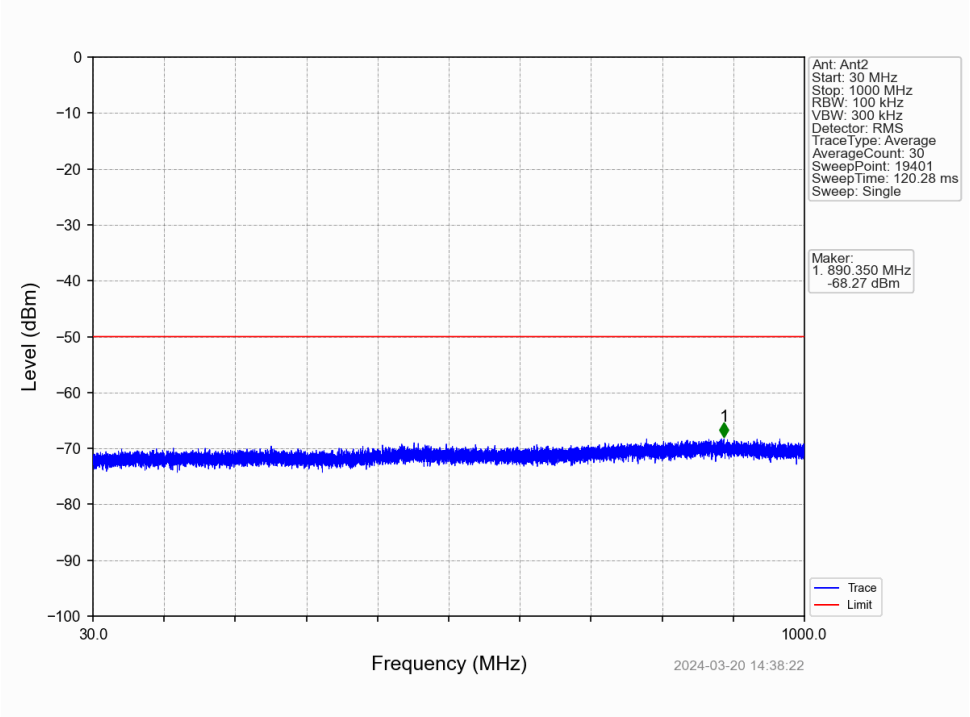
n30_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_2310MHz_Edge_1RB_Left



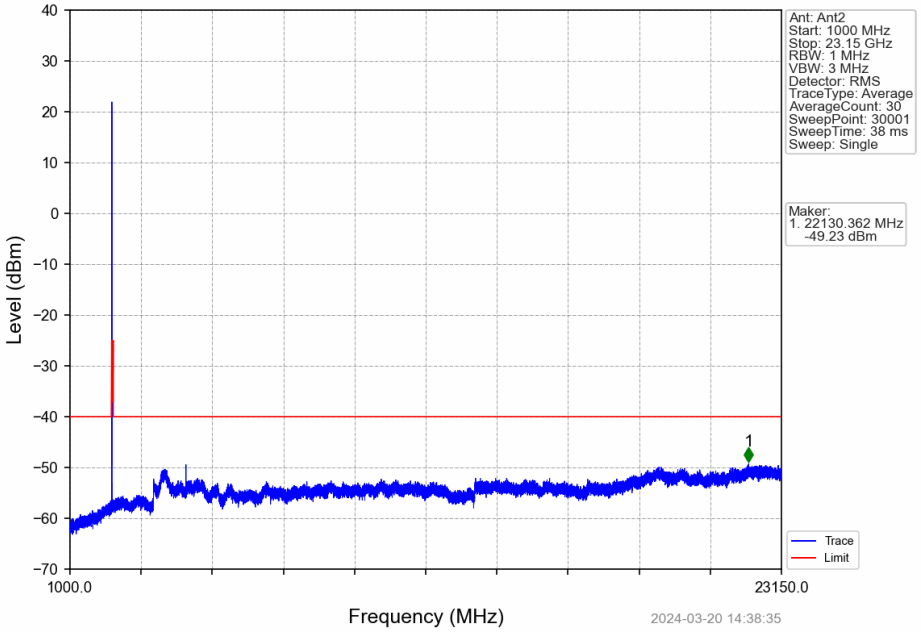
n30_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_2310MHz_Edge_1RB_Left



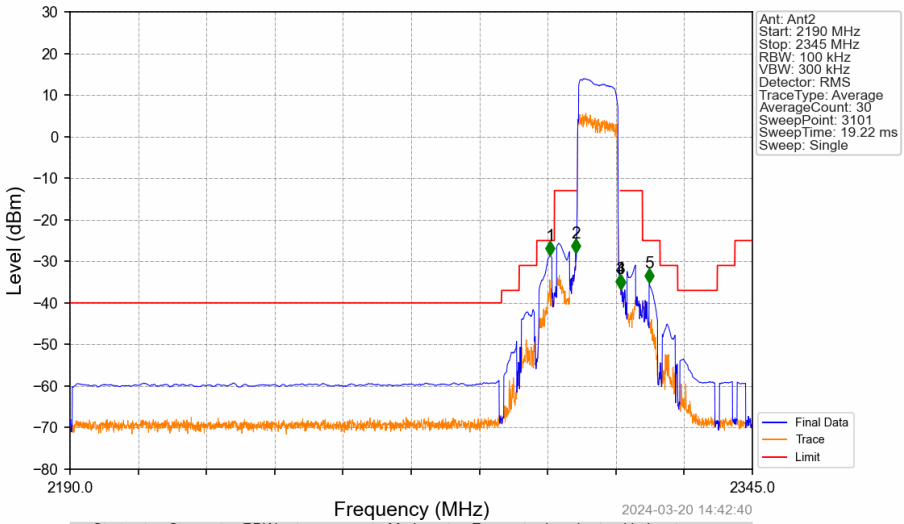
n30_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_2310MHz_Edge_1RB_Left



n30_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_2310MHz_Edge_1RB_Left

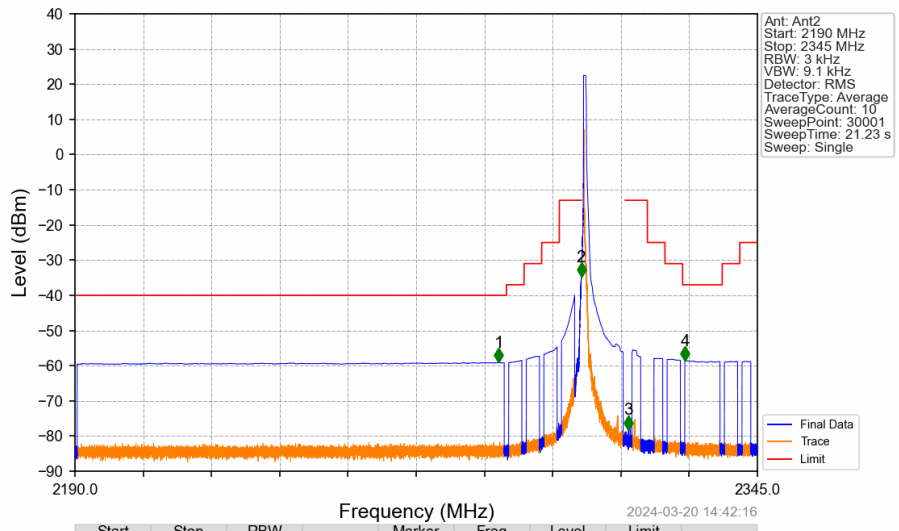


n30_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_2310MHz_Outer_Full



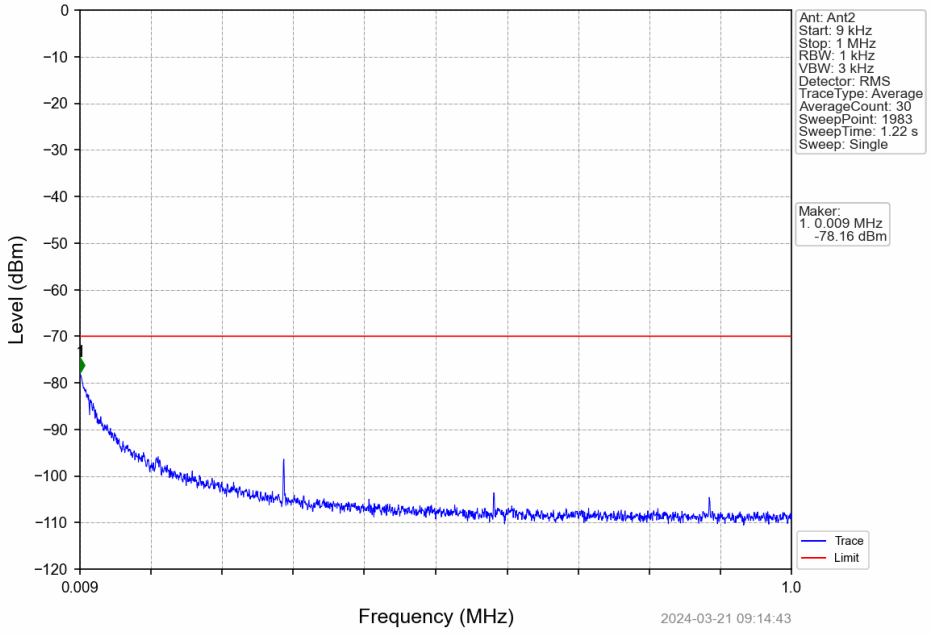
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2304	1	CHP	1	2299.050	-28.62	-25	Pass
2304	2305	0.1	/	2	2304.900	-28.00	-13	Pass
2305	2315	1	CHP	/	/	/	/	/
2315	2315	1	CHP	3	2315.000	-36.53	-13	Pass
2315	2316	0.1	/	4	2315.050	-36.66	-13	Pass
2316	2345	1	CHP	5	2321.550	-35.25	-25	Pass

n30_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_2310MHz_Inner_1RB_Left

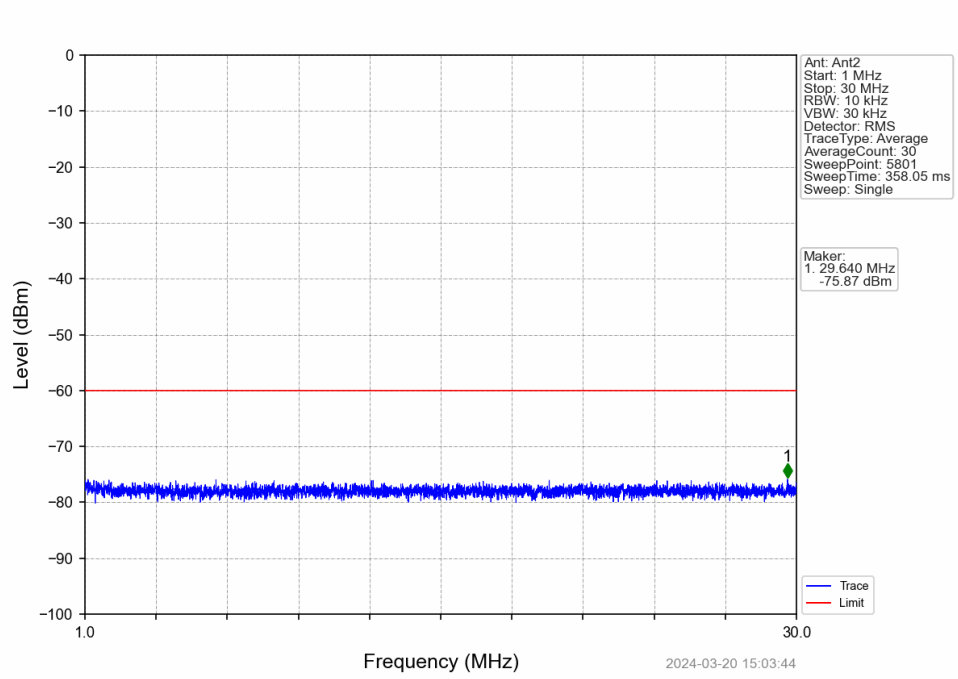


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2304	1	CHP	1	2286.214	-59.14	-40	Pass
2304	2305	0.003	/	2	2304.984	-34.78	-13	Pass
2305	2315	1	CHP	/	/	/	/	/
2315	2316	0.003	/	3	2315.726	-78.23	-13	Pass
2316	2345	1	CHP	4	2328.534	-58.57	-37	Pass

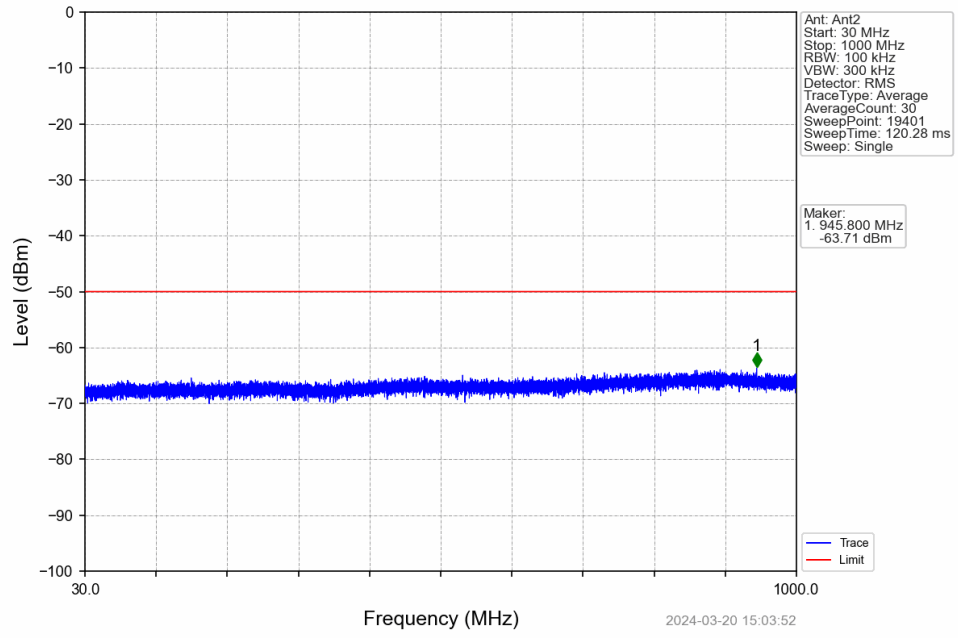
n30_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_2310MHz_Edge_1RB_Left



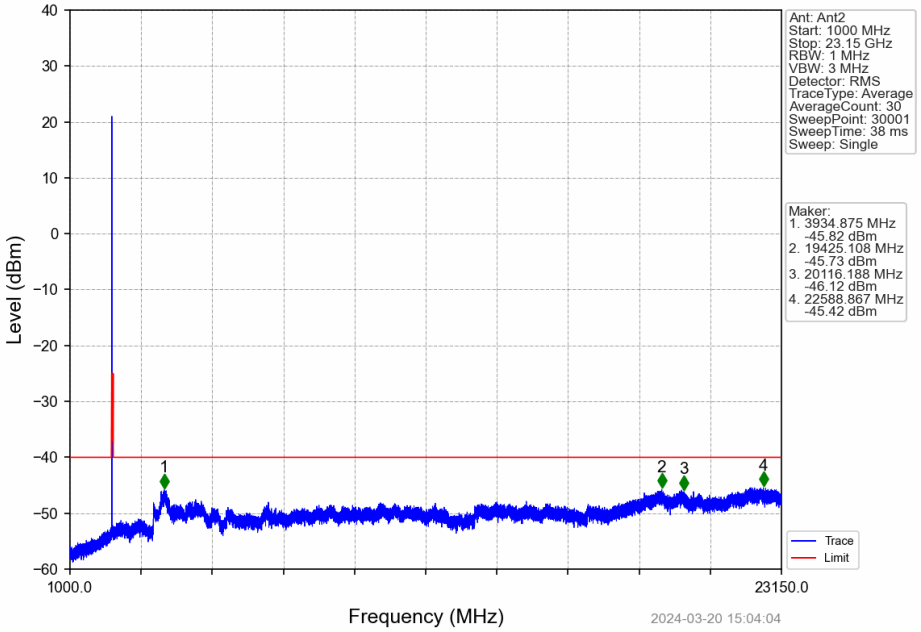
n30_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_2310MHz_Edge_1RB_Left



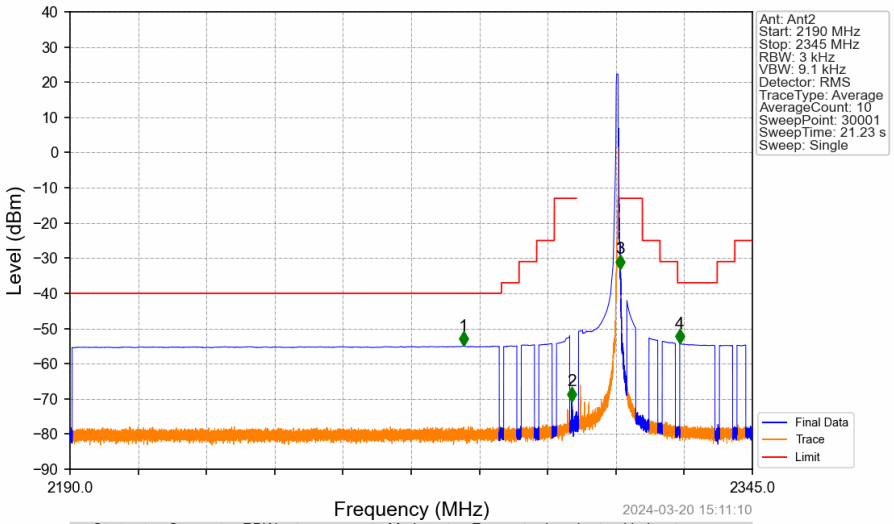
n30_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_2310MHz_Edge_1RB_Left



n30_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_2310MHz_Edge_1RB_Left

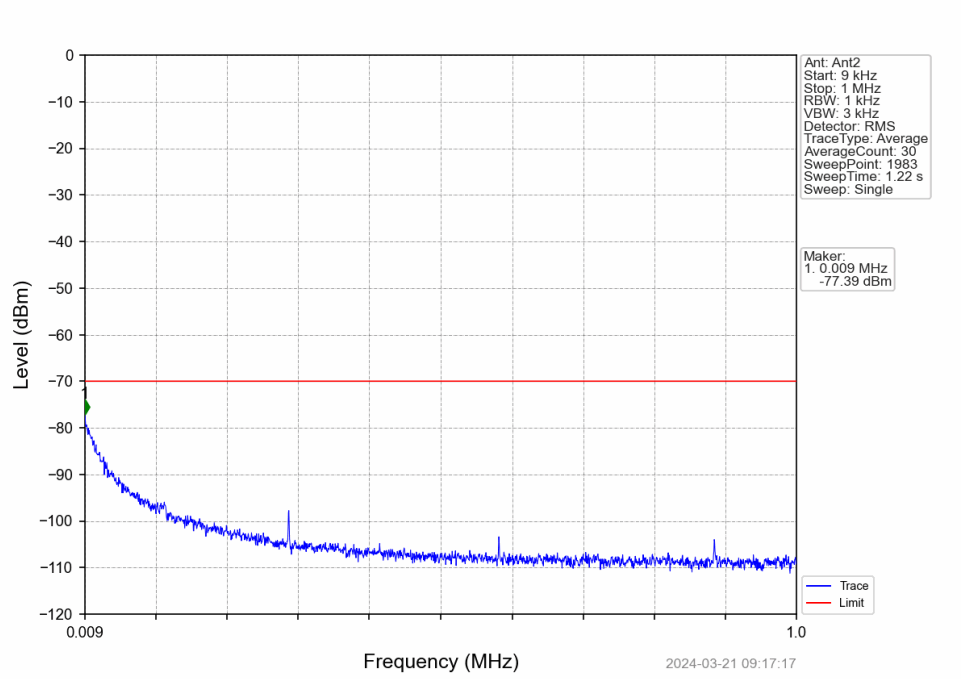


n30_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_2310MHz_Edge_1RB_Right

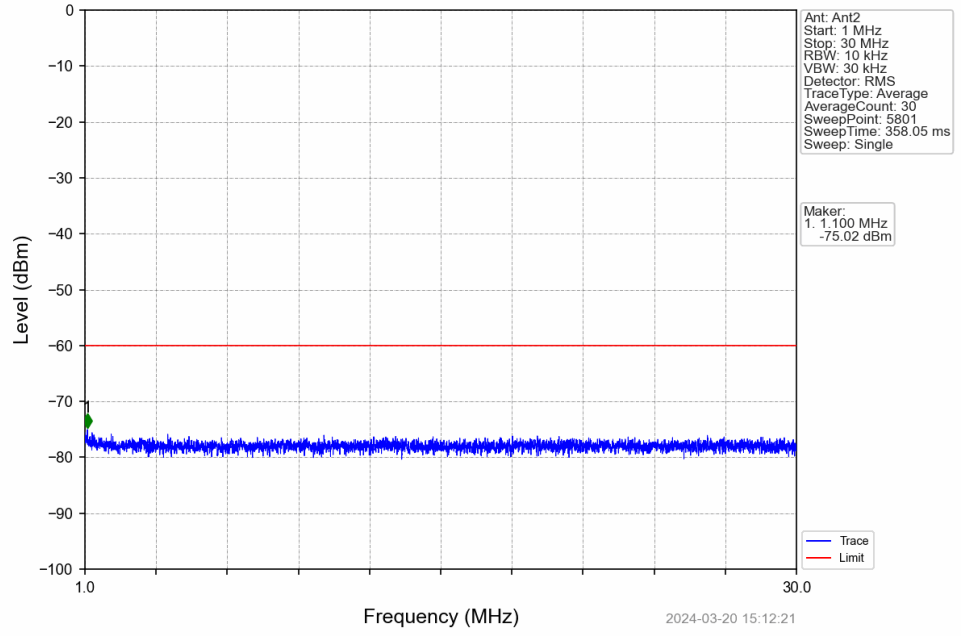


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2304	1	CHP	1	2279.419	-55.00	-40	Pass
2304	2305	0.003	/	2	2304.028	-70.64	-13	Pass
2305	2315	1	CHP	/	/	/	/	/
2315	2316	0.003	/	3	2315.008	-33.03	-13	Pass
2316	2345	1	CHP	4	2328.503	-54.34	-37	Pass

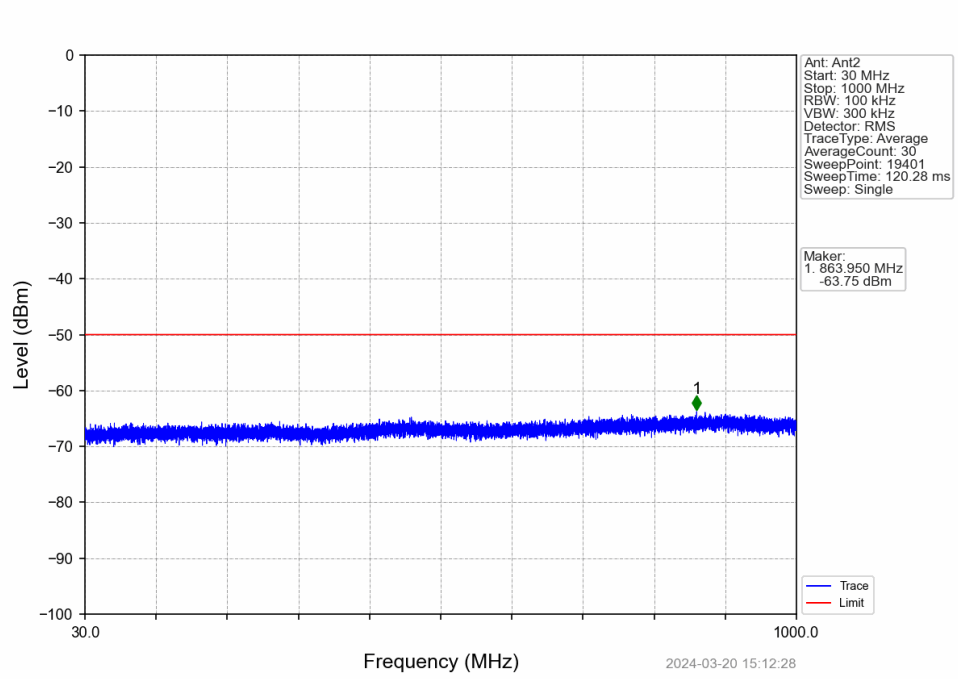
n30_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_2310MHz_Edge_1RB_Right



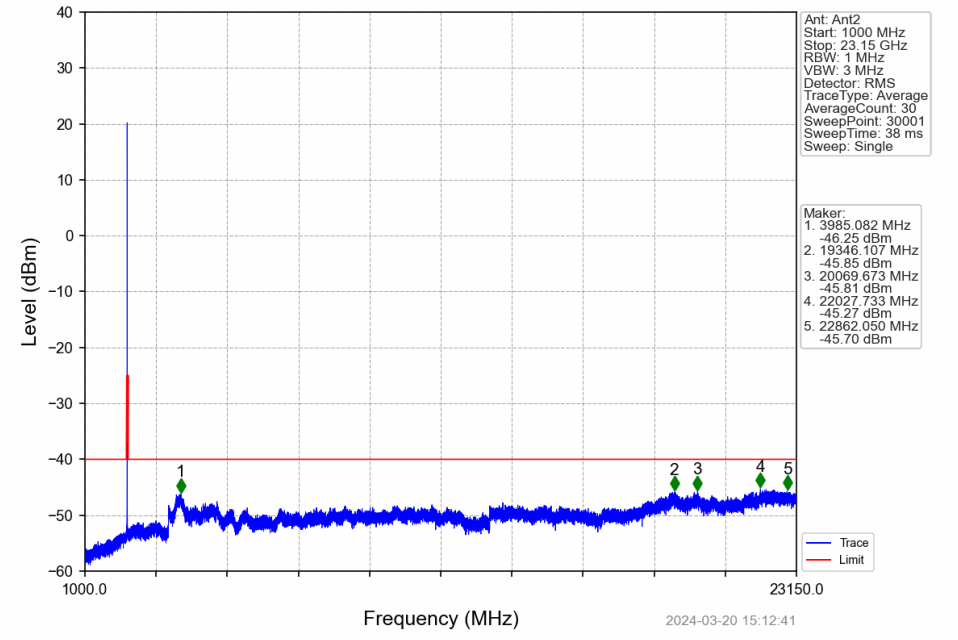
n30_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_2310MHz_Edge_1RB_Right



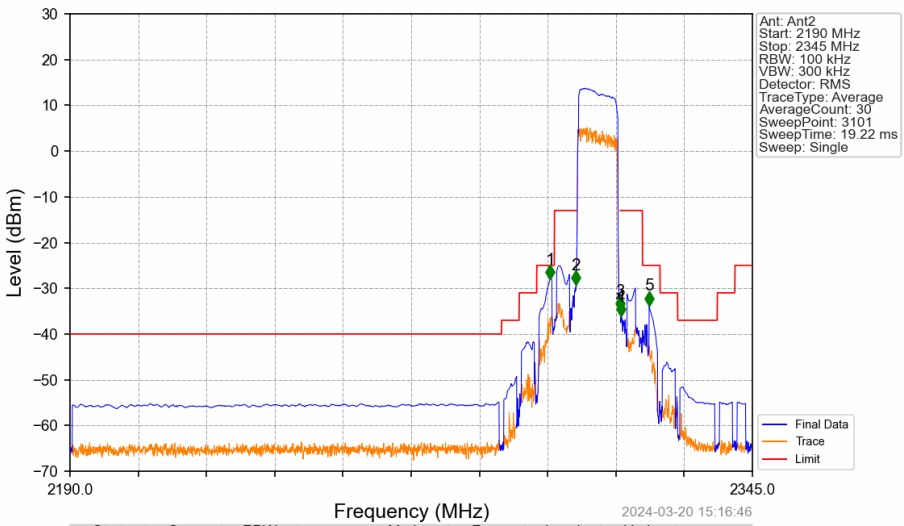
n30_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_2310MHz_Edge_1RB_Right



n30_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_2310MHz_Edge_1RB_Right

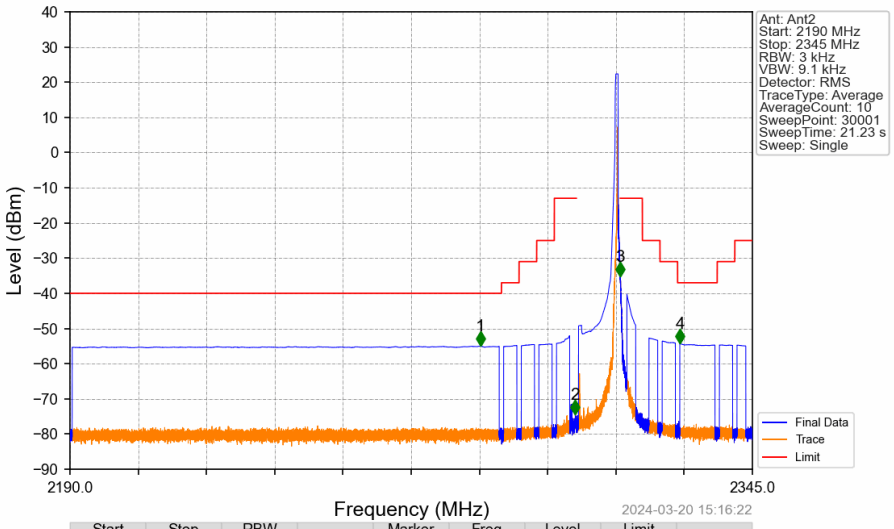


n30_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_2310MHz_Outer_Full



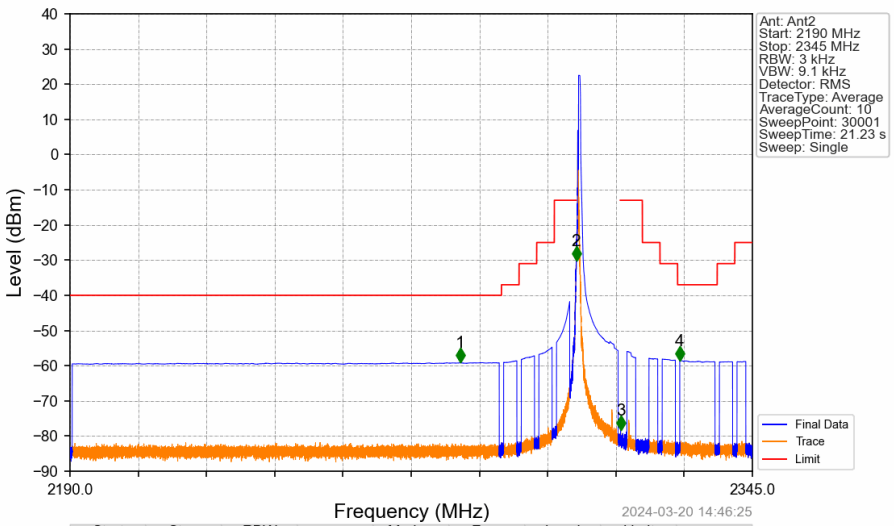
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2304	1	CHP	1	2299.050	-27.98	-25	Pass
2304	2305	0.1	/	2	2304.950	-29.27	-13	Pass
2305	2315	1	CHP	/	/	/	/	/
2315	2315	1	CHP	3	2315.000	-34.87	-13	Pass
2315	2316	0.1	/	4	2315.050	-36.19	-13	Pass
2316	2345	1	CHP	5	2321.550	-33.76	-25	Pass

n30_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_2310MHz_Inner_1RB_Right



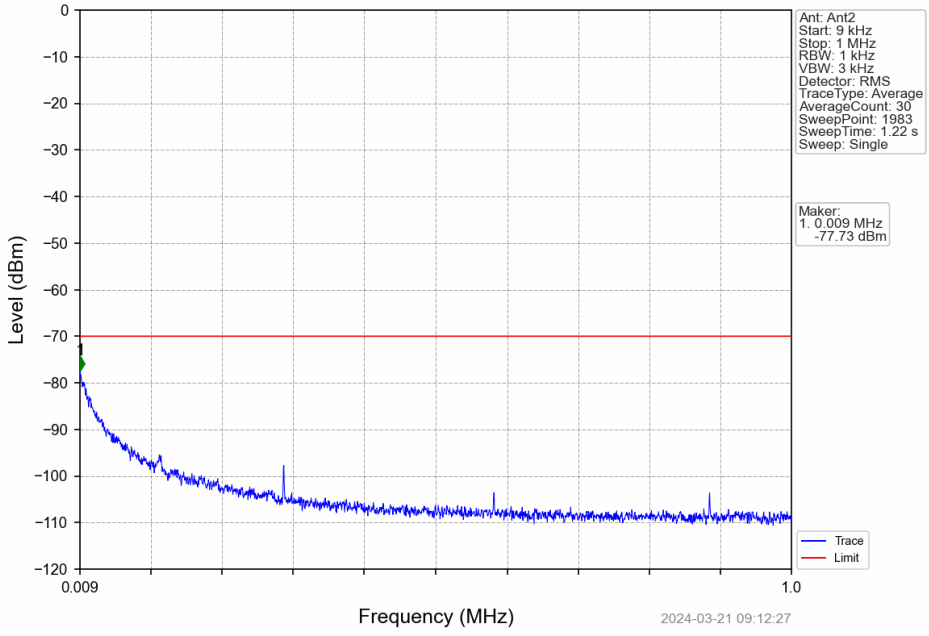
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2304	1	CHP	1	2283.171	-55.02	-40	Pass
2304	2305	0.003	/	2	2304.778	-74.46	-13	Pass
2305	2315	1	CHP	/	/	/	/	/
2315	2316	0.003	/	3	2315.018	-35.14	-13	Pass
2316	2345	1	CHP	4	2328.544	-54.32	-37	Pass

n30_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_2310MHz_Edge_1RB_Left

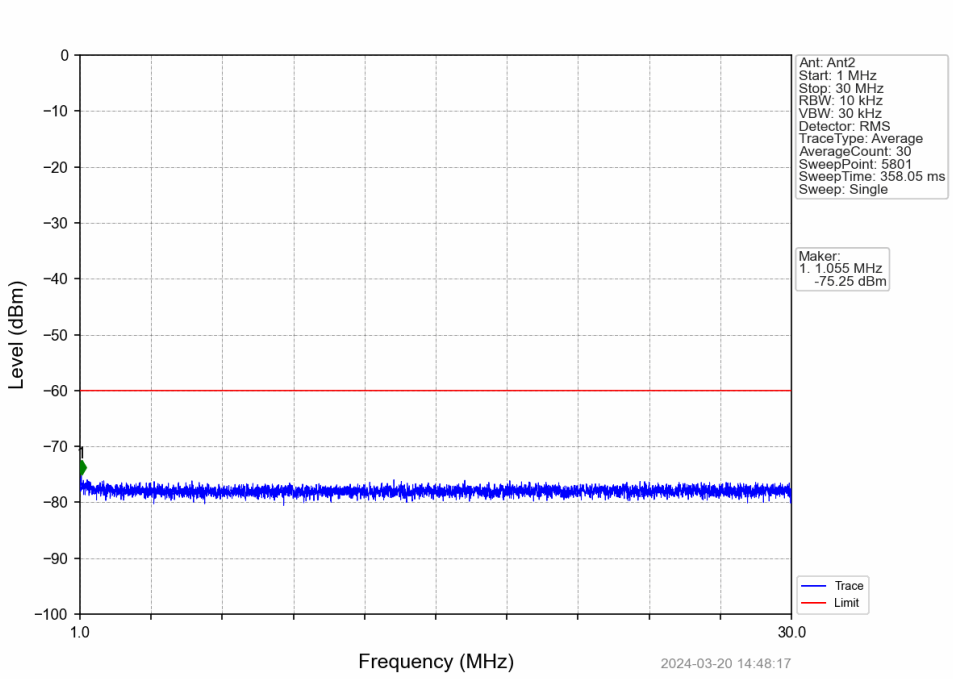


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2304	1	CHP	1	2278.598	-59.15	-40	Pass
2304	2305	0.003	/	2	2304.994	-30.09	-13	Pass
2305	2315	1	CHP	/	/	/	/	/
2315	2316	0.003	/	3	2315.054	-78.41	-13	Pass
2316	2345	1	CHP	4	2328.503	-58.54	-37	Pass

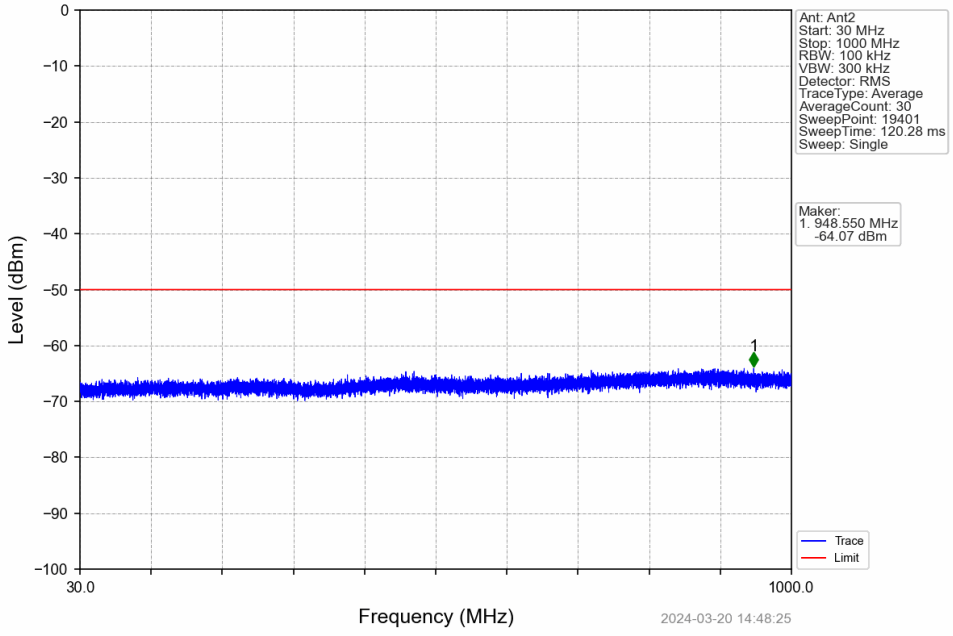
n30_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_2310MHz_Edge_1RB_Left



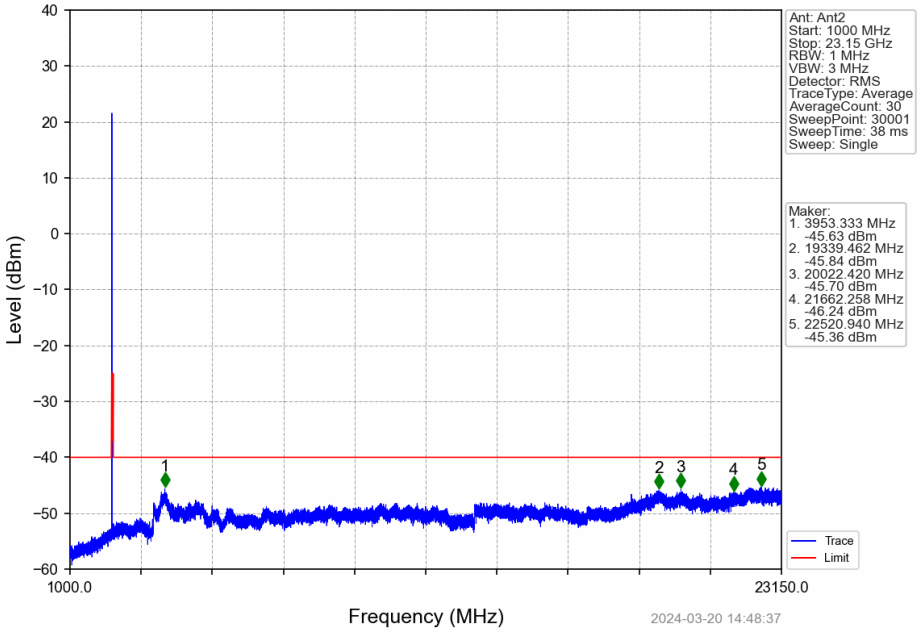
n30_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_2310MHz_Edge_1RB_Left



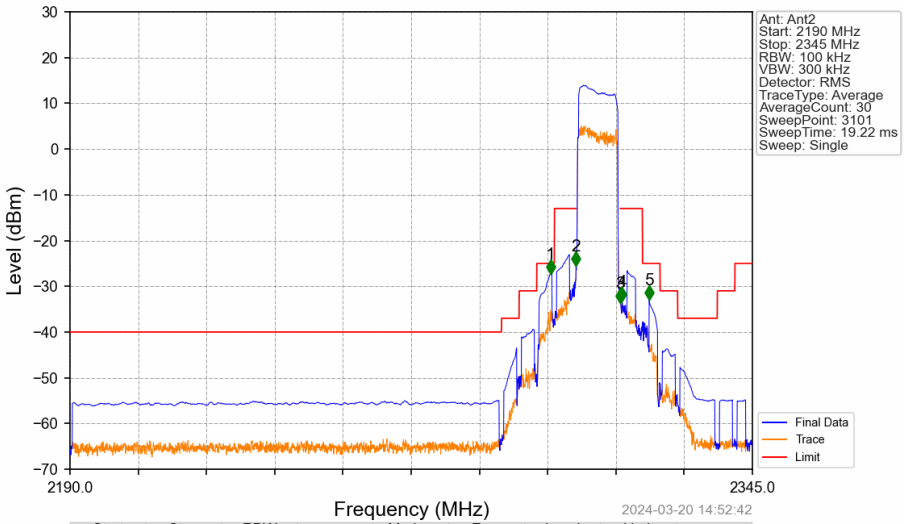
n30_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_2310MHz_Edge_1RB_Left



n30_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_2310MHz_Edge_1RB_Left

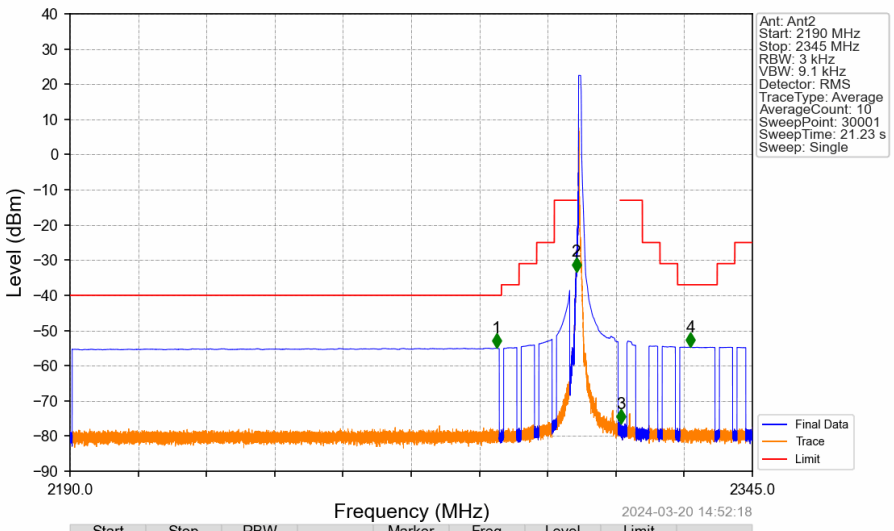


n30_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_2310MHz_Outer_Full



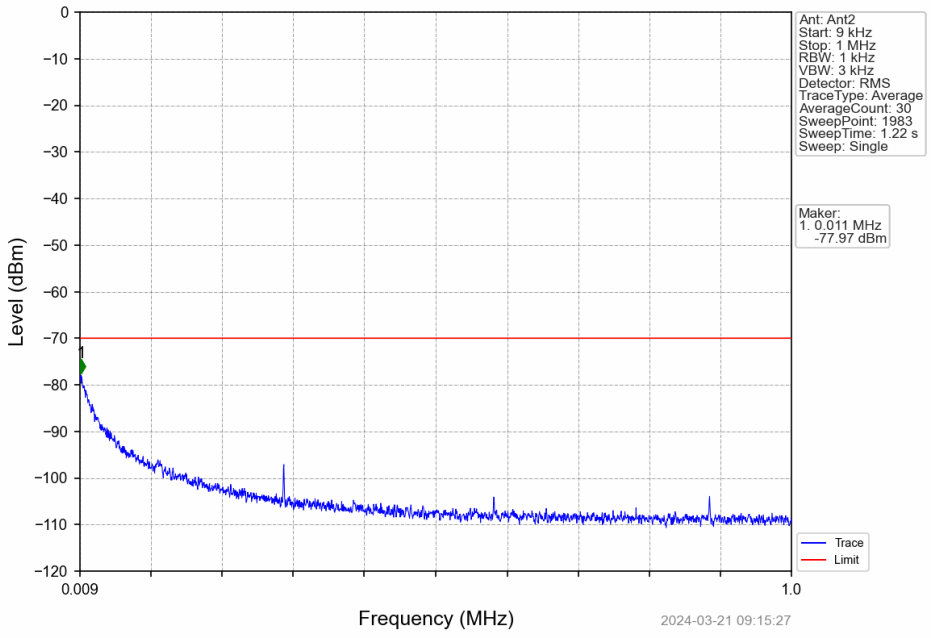
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2304	1	CHP	1	2299.150	-27.27	-25	Pass
2304	2305	0.1	/	2	2304.950	-25.51	-13	Pass
2305	2315	1	CHP	/	/	/	/	/
2315	2315	1	CHP	3	2315.000	-33.70	-13	Pass
2315	2316	0.1	/	4	2315.400	-33.39	-13	Pass
2316	2345	1	CHP	5	2321.550	-33.02	-25	Pass

n30_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_2310MHz_Inner_1RB_Left

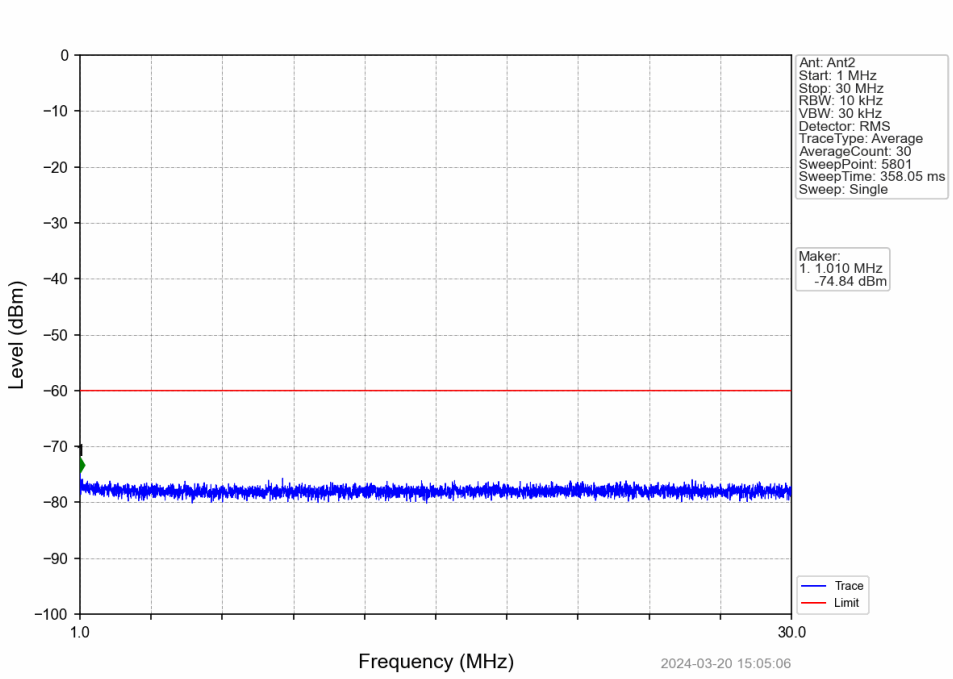


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2304	1	CHP	1	2286.885	-55.02	-40	Pass
2304	2305	0.003	/	2	2304.979	-33.29	-13	Pass
2305	2315	1	CHP	/	/	/	/	/
2315	2316	0.003	/	3	2315.178	-76.49	-13	Pass
2316	2345	1	CHP	4	2330.916	-54.72	-37	Pass

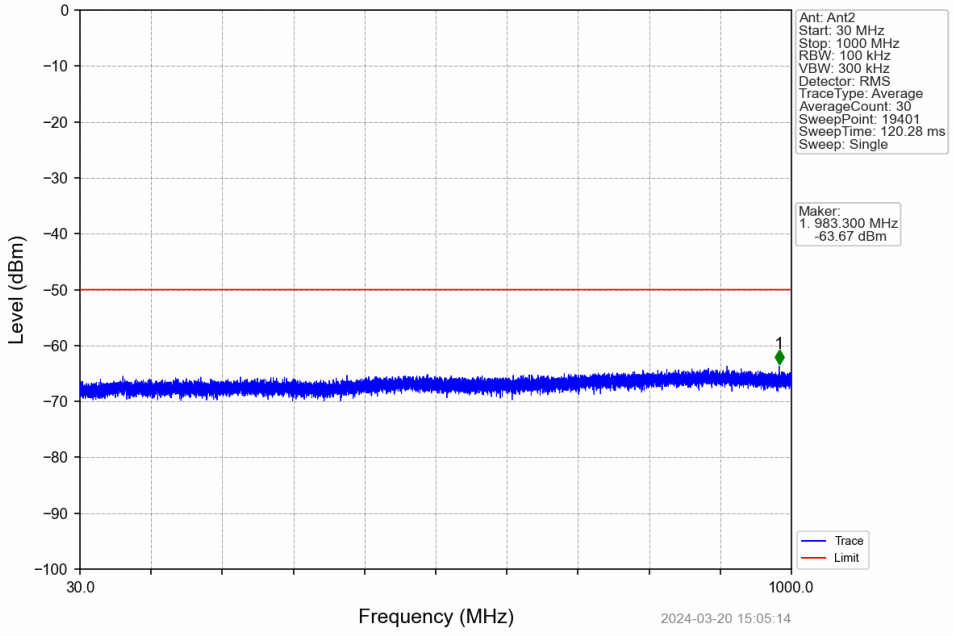
n30_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_2310MHz_Edge_1RB_Left



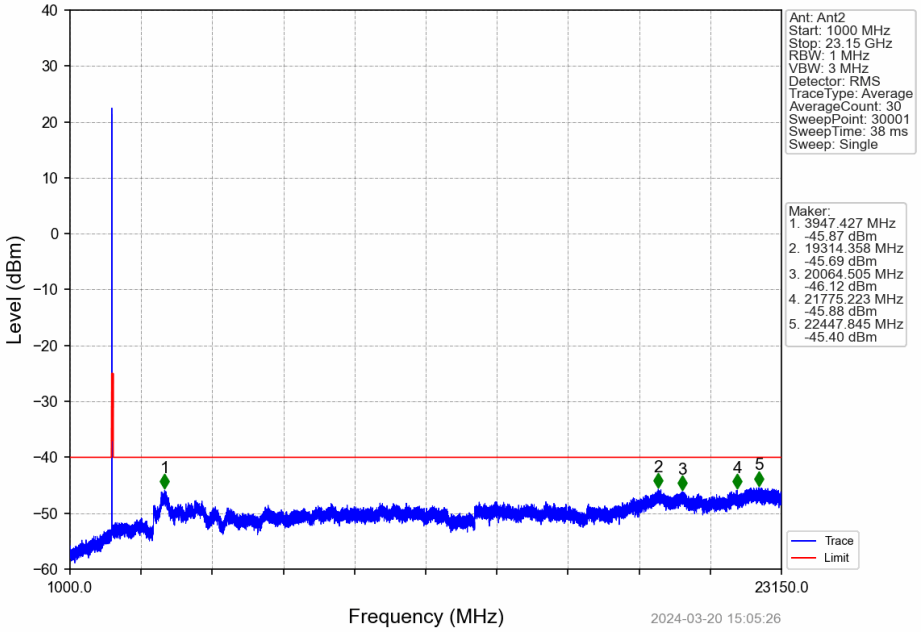
n30_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_2310MHz_Edge_1RB_Left



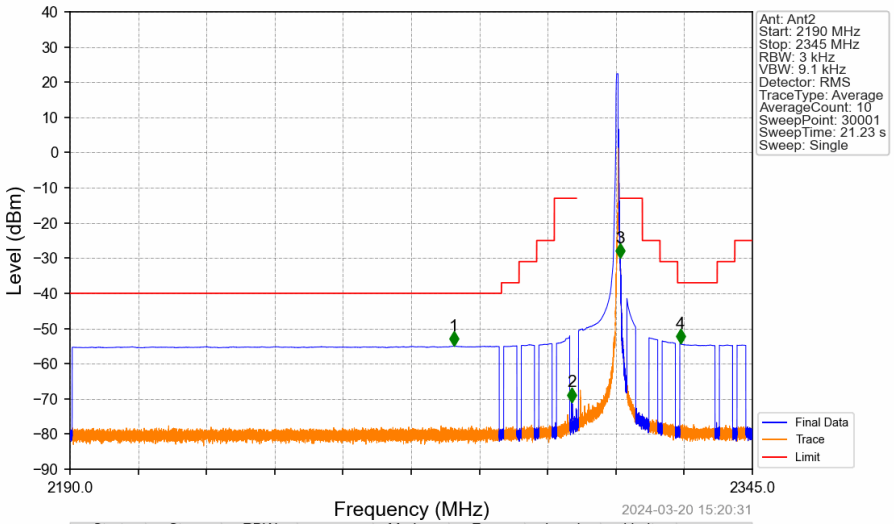
n30_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_2310MHz_Edge_1RB_Left



n30_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_2310MHz_Edge_1RB_Left

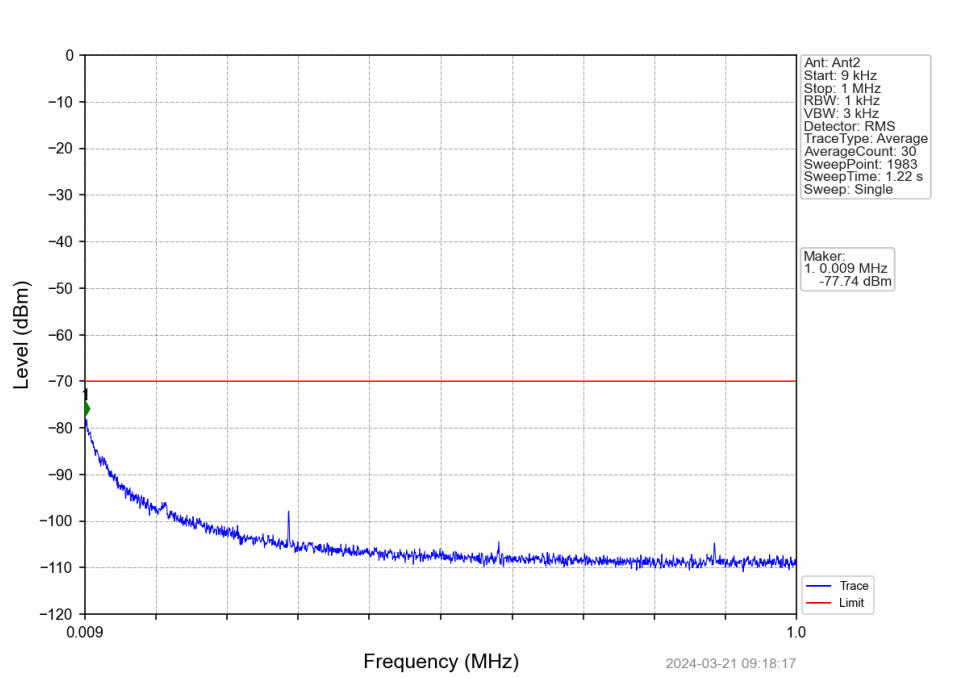


n30_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_2310MHz_Edge_1RB_Right

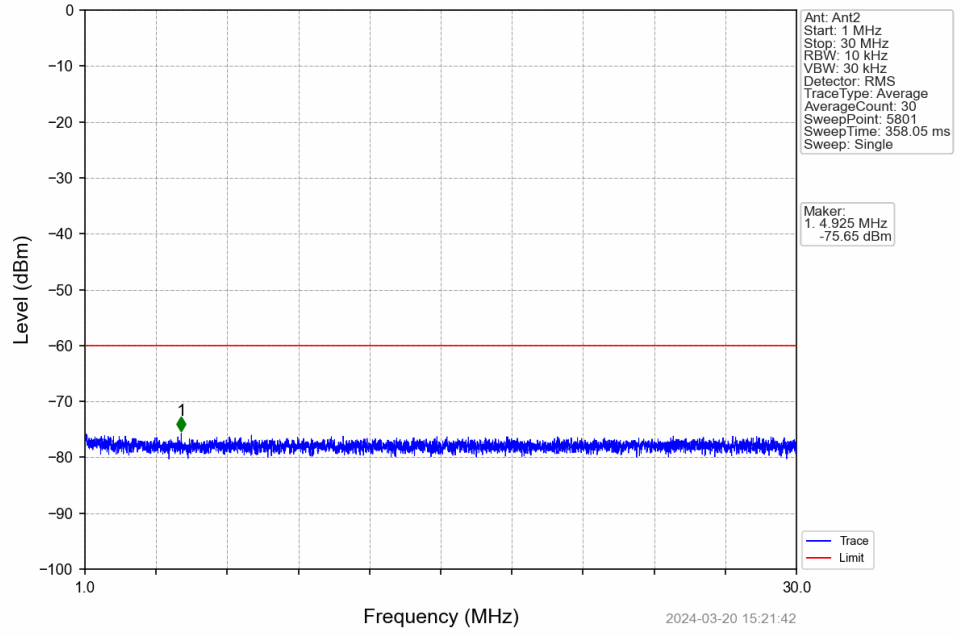


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2304	1	CHP	1	2277.162	-55.01	-40	Pass
2304	2305	0.003	/	2	2304.013	-70.88	-13	Pass
2305	2315	1	CHP	/	/	/	/	/
2315	2316	0.003	/	3	2315.002	-30.01	-13	Pass
2316	2345	1	CHP	4	2328.627	-54.32	-37	Pass

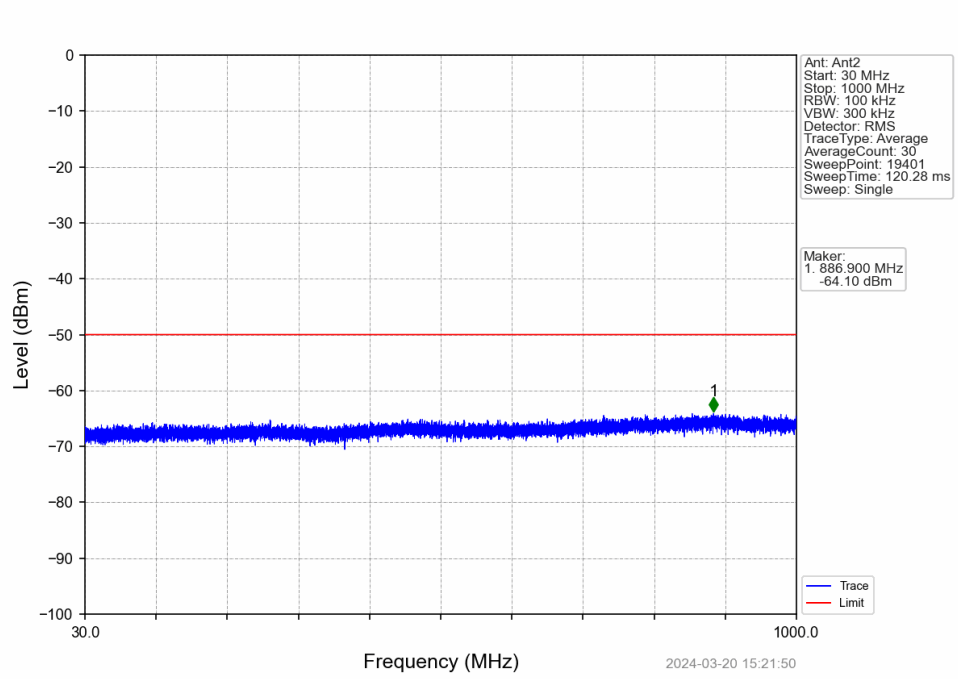
n30_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_2310MHz_Edge_1RB_Right



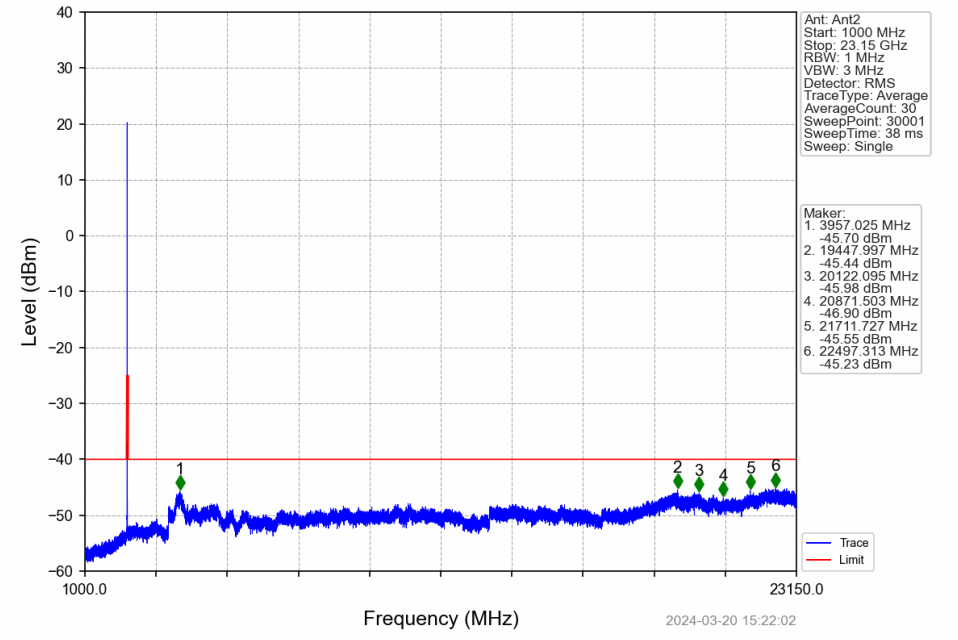
n30_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_2310MHz_Edge_1RB_Right



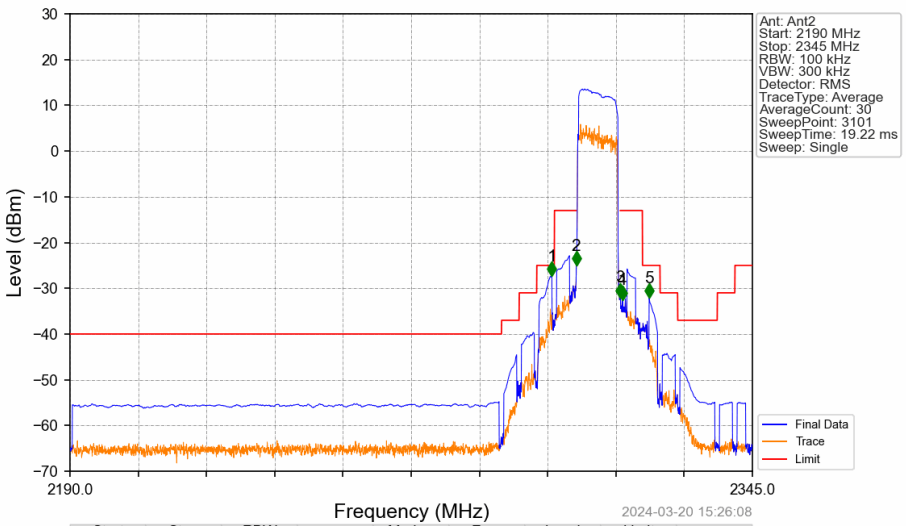
n30_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_2310MHz_Edge_1RB_Right



n30_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_2310MHz_Edge_1RB_Right

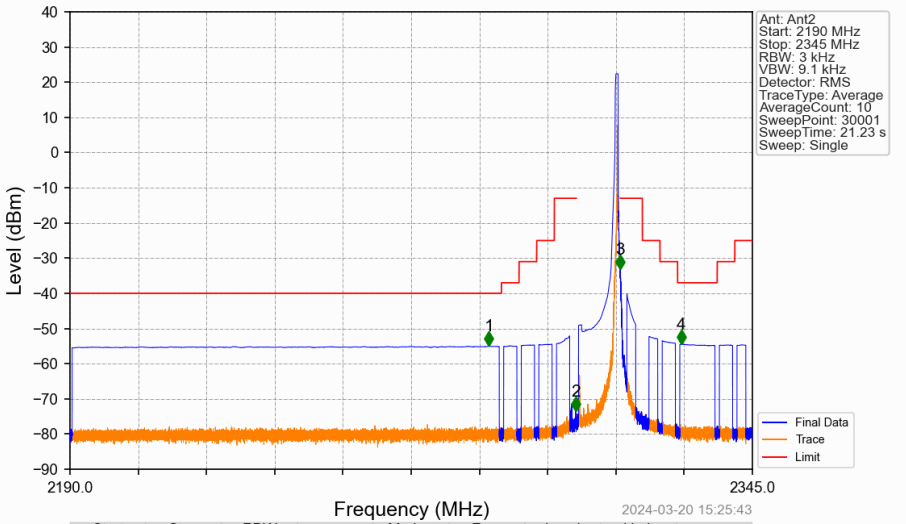


n30_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_2310MHz_Outer_Full



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2304	1	CHP	1	2299.450	-27.30	-25	Pass
2304	2305	0.1	/	2	2305.000	-25.08	-13	Pass
2305	2315	1	CHP	/	/	/	/	/
2315	2315	1	CHP	3	2315.000	-32.02	-13	Pass
2315	2316	0.1	/	4	2315.500	-32.55	-13	Pass
2316	2345	1	CHP	5	2321.550	-32.03	-25	Pass

n30_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_2310MHz_Inner_1RB_Right



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2304	1	CHP	1	2285.124	-55.03	-40	Pass
2304	2305	0.003	/	2	2304.845	-73.44	-13	Pass
2305	2315	1	CHP	/	/	/	/	/
2315	2316	0.003	/	3	2315.002	-33.14	-13	Pass
2316	2345	1	CHP	4	2328.813	-54.45	-37	Pass

6. Field Strength of Spurious Radiation

SA Band 30- Middle channel								
Frequency (MHz)	**EIRP (dBm)**	**Limit (dBm)**	**Over Limit (dB)**	**S.G. Power (dBm)**	**Cable Loss (dB)**	**Antenna Gain (dBi)**	**Polarization (H/V)**	**Result**
4611.0	-64.15	-40	-24.15	-69.31	4.4	9.56	Horizontal	Pass
6916.5	-54.88	-40	-14.88	-60.99	4.91	11.02	Horizontal	Pass
9222.0	-58.11	-40	-18.11	-66.09	5.24	13.22	Horizontal	Pass
4611.0	-61.2	-40	-21.2	-66.36	4.4	9.56	Vertical	Pass
6916.5	-51.42	-40	-11.42	-57.53	4.91	11.02	Vertical	Pass
9222.0	-57.77	-40	-17.77	-65.75	5.24	13.22	Vertical	Pass