1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 15k_SISO_15MHz_NTNV_EIRP

5G NR n70 SCS=15kHz SISO 15MHz 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	1702.5	Edge_1RB_Left	23.01	/	/	21.21	/	/	<=30	Pass
		Edge_1RB_Right	22.82	/	/	21.02	/	/	<=30	Pass
		Outer_Full	22.92	/	/	21.12	/	/	<=30	Pass
		Inner_Full	22.99	/	/	21.19	/	/	<=30	Pass
		Inner_1RB_Left	23.05	/	/	21.25	/	/	<=30	Pass
		Inner_1RB_Right	22.88	/	/	21.08	/	/	<=30	Pass
	1702.5	Edge_1RB_Left	22.96	/	/	21.16	/	/	<=30	Pass
		Edge_1RB_Right	22.86	/	/	21.06	/	/	<=30	Pass
		Outer_Full	22.89	/	/	21.09	/	/	<=30	Pass
		Inner_Full	22.97	/	/	21.17	/	/	<=30	Pass
		Inner_1RB_Left	22.99	/	/	21.19	/	/	<=30	Pass
		Inner_1RB_Right	22.81	/	/	21.01	/	/	<=30	Pass
	1702.5	Edge_1RB_Left	23.03	/	/	21.23	/	/	<=30	Pass
		Edge_1RB_Right	22.79	/	/	20.99	/	/	<=30	Pass
		Outer_Full	22.91	/	/	21.11	/	/	<=30	Pass
		Inner_Full	22.86	/	/	21.06	/	/	<=30	Pass
		Inner_1RB_Left	22.99	/	/	21.19	/	/	<=30	Pass
		Inner_1RB_Right	22.87	/	/	21.07	/	/	<=30	Pass
DFT-s-OFDM QPSK	1702.5	Edge_1RB_Left	22.76	/	/	20.96	/	/	<=30	Pass
		Edge_1RB_Right	22.77	/	/	20.97	/	/	<=30	Pass
		Outer_Full	22.99	/	/	21.19	/	/	<=30	Pass
		Inner_Full	22.98	/	/	21.18	/	/	<=30	Pass
		Inner_1RB_Left	22.94	/	/	21.14	/	/	<=30	Pass
		Inner_1RB_Right	22.80	/	/	21.00	/	/	<=30	Pass
	1702.5	Edge_1RB_Left	22.86	/	/	21.06	/	/	<=30	Pass
		Edge_1RB_Right	22.88	/	/	21.08	/	/	<=30	Pass
		Outer_Full	22.94	/	/	21.14	/	/	<=30	Pass
		Inner_Full	22.90	/	/	21.10	/	/	<=30	Pass
		Inner_1RB_Left	23.02	/	/	21.22	/	/	<=30	Pass
		Inner_1RB_Right	22.91	/	/	21.11	/	/	<=30	Pass
	1702.5	Edge_1RB_Left	22.82	/	/	21.02	/	/	<=30	Pass
		Edge_1RB_Right	22.84	/	/	21.04	/	/	<=30	Pass
		Outer_Full	22.98	/	/	21.18	/	/	<=30	Pass
		Inner_Full	22.90	/	/	21.10	/	/	<=30	Pass
		Inner_1RB_Left	23.03	/	/	21.23	/	/	<=30	Pass
		Inner_1RB_Right	22.90	/	/	21.10	/	/	<=30	Pass
DFT-s-OFDM 16 QAM	1702.5	Edge_1RB_Left	21.83	/	/	20.03	/	/	<=30	Pass
		Edge_1RB_Right	21.80	/	/	20.00	/	/	<=30	Pass
		Outer_Full	22.04	/	/	20.24	/	/	<=30	Pass
		Inner_Full	23.07	/	/	21.27	/	/	<=30	Pass
		Inner_1RB_Left	22.65	/	/	20.85	/	/	<=30	Pass
		Inner_1RB_Right	22.72	/	/	20.92	/	/	<=30	Pass
	1702.5	Edge_1RB_Left	21.84	/	/	20.04	/	/	<=30	Pass
		Edge_1RB_Right	21.84	/	/	20.04	/	/	<=30	Pass
		Outer_Full	21.91	/	/	20.11	/	/	<=30	Pass
		Inner_Full	22.94	/	/	21.14	/	/	<=30	Pass
		Inner_1RB_Left	22.61	/	/	20.81	/	/	<=30	Pass
		Inner_1RB_Right	22.75	/	/	20.95	/	/	<=30	Pass
	1702.5	Edge_1RB_Left	21.79	/	/	19.99	/	/	<=30	Pass

		Edge_1RB_Right	21.79	/	/	19.99	/	/	<=30	Pass
		Outer_Full	21.95	/	/	20.15	/	/	<=30	Pass
		Inner_Full	22.97	/	/	21.17	/	/	<=30	Pass
		Inner_1RB_Left	22.57	/	/	20.77	/	/	<=30	Pass
		Inner_1RB_Right	22.83	/	/	21.03	/	/	<=30	Pass
DFT-s-OFDM 64 QAM	1702.5	Edge_1RB_Left	21.65	/	/	19.85	/	/	<=30	Pass
		Edge_1RB_Right	21.48	/	/	19.68	/	/	<=30	Pass
		Outer_Full	21.50	/	/	19.70	/	/	<=30	Pass
		Inner_Full	21.55	/	/	19.75	/	/	<=30	Pass
		Inner_1RB_Left	21.62	/	/	19.82	/	/	<=30	Pass
		Inner_1RB_Right	21.53	/	/	19.73	/	/	<=30	Pass
	1702.5	Edge_1RB_Left	21.55	/	/	19.75	/	/	<=30	Pass
		Edge_1RB_Right	21.50	/	/	19.70	/	/	<=30	Pass
		Outer_Full	21.42	/	/	19.62	/	/	<=30	Pass
		Inner_Full	21.46	/	/	19.66	/	/	<=30	Pass
		Inner_1RB_Left	21.62	/	/	19.82	/	/	<=30	Pass
		Inner_1RB_Right	21.56	/	/	19.76	/	/	<=30	Pass
	1702.5	Edge_1RB_Left	21.54	/	/	19.74	/	/	<=30	Pass
		Edge_1RB_Right	21.57	/	/	19.77	/	/	<=30	Pass
		Outer_Full	21.48	/	/	19.68	/	/	<=30	Pass
		Inner_Full	21.49	/	/	19.69	/	/	<=30	Pass
		Inner_1RB_Left	21.57	/	/	19.77	/	/	<=30	Pass
		Inner_1RB_Right	21.50	/	/	19.70	/	/	<=30	Pass
DFT-s-OFDM 256 QAM	1702.5	Edge_1RB_Left	18.98	/	/	17.18	/	/	<=30	Pass
		Edge_1RB_Right	18.88	/	/	17.08	/	/	<=30	Pass
		Outer_Full	19.45	/	/	17.65	/	/	<=30	Pass
		Inner_Full	19.43	/	/	17.63	/	/	<=30	Pass
		Inner_1RB_Left	18.98	/	/	17.18	/	/	<=30	Pass
		Inner_1RB_Right	18.83	/	/	17.03	/	/	<=30	Pass
	1702.5	Edge_1RB_Left	18.93	/	/	17.13	/	/	<=30	Pass
		Edge_1RB_Right	18.79	/	/	16.99	/	/	<=30	Pass
		Outer_Full	19.46	/	/	17.66	/	/	<=30	Pass
		Inner_Full	19.42	/	/	17.62	/	/	<=30	Pass
		Inner_1RB_Left	19.04	/	/	17.24	/	/	<=30	Pass
		Inner_1RB_Right	18.75	/	/	16.95	/	/	<=30	Pass
	1702.5	Edge_1RB_Left	18.97	/	/	17.17	/	/	<=30	Pass
		Edge_1RB_Right	18.83	/	/	17.03	/	/	<=30	Pass
		Outer_Full	19.49	/	/	17.69	/	/	<=30	Pass
		Inner_Full	19.48	/	/	17.68	/	/	<=30	Pass
		Inner_1RB_Left	18.98	/	/	17.18	/	/	<=30	Pass
		Inner_1RB_Right	18.80	/	/	17.00	/	/	<=30	Pass
CP-OFDM QPSK	1702.5	Edge_1RB_Left	21.04	/	/	19.24	/	/	<=30	Pass
		Edge_1RB_Right	20.95	/	/	19.15	/	/	<=30	Pass
		Outer_Full	20.94	/	/	19.14	/	/	<=30	Pass
		Inner_Full	22.41	/	/	20.61	/	/	<=30	Pass
		Inner_1RB_Left	22.37	/	/	20.57	/	/	<=30	Pass
		Inner_1RB_Right	22.28	/	/	20.48	/	/	<=30	Pass
	1702.5	Edge_1RB_Left	21.29	/	/	19.49	/	/	<=30	Pass
		Edge_1RB_Right	21.04	/	/	19.24	/	/	<=30	Pass
		Outer_Full	20.93	/	/	19.13	/	/	<=30	Pass
		Inner_Full	22.40	/	/	20.60	/	/	<=30	Pass
		Inner_1RB_Left	22.28	/	/	20.48	/	/	<=30	Pass
		Inner_1RB_Right	22.37	/	/	20.57	/	/	<=30	Pass
	1702.5	Edge_1RB_Left	21.33	/	/	19.53	/	/	<=30	Pass
		Edge_1RB_Right	21.10	/	/	19.30	/	/	<=30	Pass
		Outer_Full	20.97	/	/	19.17	/	/	<=30	Pass
		Inner_Full	22.30	/	/	20.50	/	/	<=30	Pass
		Inner_1RB_Left	22.24	/	/	20.44	/	/	<=30	Pass
		Inner_1RB_Right	22.40	/	/	20.60	/	/	<=30	Pass

CP-OFDM 16 QAM	1702.5	Edge_1RB_Left	21.23	/	/	19.43	/	/	<=30	Pass
		Edge_1RB_Right	20.94	/	/	19.14	/	/	<=30	Pass
		Outer_Full	20.84	/	/	19.04	/	/	<=30	Pass
		Inner_Full	22.07	/	/	20.27	/	/	<=30	Pass
		Inner_1RB_Left	21.78	/	/	19.98	/	/	<=30	Pass
		Inner_1RB_Right	21.92	/	/	20.12	/	/	<=30	Pass
	1702.5	Edge_1RB_Left	21.16	/	/	19.36	/	/	<=30	Pass
		Edge_1RB_Right	20.85	/	/	19.05	/	/	<=30	Pass
		Outer_Full	20.78	/	/	18.98	/	/	<=30	Pass
		Inner_Full	22.07	/	/	20.27	/	/	<=30	Pass
		Inner_1RB_Left	21.68	/	/	19.88	/	/	<=30	Pass
		Inner_1RB_Right	21.97	/	/	20.17	/	/	<=30	Pass
	1702.5	Edge_1RB_Left	21.23	/	/	19.43	/	/	<=30	Pass
		Edge_1RB_Right	20.82	/	/	19.02	/	/	<=30	Pass
		Outer_Full	21.18	/	/	19.38	/	/	<=30	Pass
		Inner_Full	21.97	/	/	20.17	/	/	<=30	Pass
		Inner_1RB_Left	21.65	/	/	19.85	/	/	<=30	Pass
		Inner_1RB_Right	21.99	/	/	20.19	/	/	<=30	Pass
CP-OFDM 64 QAM	1702.5	Edge_1RB_Left	20.72	/	/	18.92	/	/	<=30	Pass
		Edge_1RB_Right	20.44	/	/	18.64	/	/	<=30	Pass
		Outer_Full	20.49	/	/	18.69	/	/	<=30	Pass
		Inner_Full	20.44	/	/	18.64	/	/	<=30	Pass
		Inner_1RB_Left	20.65	/	/	18.85	/	/	<=30	Pass
		Inner_1RB_Right	20.46	/	/	18.66	/	/	<=30	Pass
	1702.5	Edge_1RB_Left	20.73	/	/	18.93	/	/	<=30	Pass
		Edge_1RB_Right	20.38	/	/	18.58	/	/	<=30	Pass
		Outer_Full	20.39	/	/	18.59	/	/	<=30	Pass
		Inner_Full	20.36	/	/	18.56	/	/	<=30	Pass
		Inner_1RB_Left	20.73	/	/	18.93	/	/	<=30	Pass
		Inner_1RB_Right	20.44	/	/	18.64	/	/	<=30	Pass
	1702.5	Edge_1RB_Left	20.62	/	/	18.82	/	/	<=30	Pass
		Edge_1RB_Right	20.48	/	/	18.68	/	/	<=30	Pass
		Outer_Full	20.38	/	/	18.58	/	/	<=30	Pass
		Inner_Full	20.41	/	/	18.61	/	/	<=30	Pass
		Inner_1RB_Left	20.69	/	/	18.89	/	/	<=30	Pass
		Inner_1RB_Right	20.43	/	/	18.63	/	/	<=30	Pass
CP-OFDM 256 QAM	1702.5	Edge_1RB_Left	17.03	/	/	15.23	/	/	<=30	Pass
		Edge_1RB_Right	16.99	/	/	15.19	/	/	<=30	Pass
		Outer_Full	17.38	/	/	15.58	/	/	<=30	Pass
		Inner_Full	17.38	/	/	15.58	/	/	<=30	Pass
		Inner_1RB_Left	17.02	/	/	15.22	/	/	<=30	Pass
		Inner_1RB_Right	16.95	/	/	15.15	/	/	<=30	Pass
	1702.5	Edge_1RB_Left	17.05	/	/	15.25	/	/	<=30	Pass
		Edge_1RB_Right	17.01	/	/	15.21	/	/	<=30	Pass
		Outer_Full	17.42	/	/	15.62	/	/	<=30	Pass
		Inner_Full	17.40	/	/	15.60	/	/	<=30	Pass
		Inner_1RB_Left	17.06	/	/	15.26	/	/	<=30	Pass
		Inner_1RB_Right	16.99	/	/	15.19	/	/	<=30	Pass
	1702.5	Edge_1RB_Left	17.01	/	/	15.21	/	/	<=30	Pass
		Edge_1RB_Right	17.00	/	/	15.20	/	/	<=30	Pass
		Outer_Full	17.45	/	/	15.65	/	/	<=30	Pass
		Inner_Full	17.37	/	/	15.57	/	/	<=30	Pass
		Inner_1RB_Left	17.44	/	/	15.64	/	/	<=30	Pass
		Inner_1RB_Right	16.98	/	/	15.18	/	/	<=30	Pass
Note1: Antenna Gain: Ant2: -1.80dBi; Note2: EIRP=Conducted Power+Antenna Gain										

2. Frequency Stability

2.1 Test Result

2.1.1 15k_SISO_15MHz

5G NR n70 SCS=15kHz SISO 15MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	1702.5	Outer_Full	20	LV	-2.50	-0.0015	>=-2.5 & <=2.5	Pass
				HV	4.30	0.0025	>=-2.5 & <=2.5	Pass
			-30	NV	-1.30	-0.0008	>=-2.5 & <=2.5	Pass
			-20	NV	-3.20	-0.0019	>=-2.5 & <=2.5	Pass
			-10	NV	3.40	0.0020	>=-2.5 & <=2.5	Pass
			0	NV	-1.90	-0.0011	>=-2.5 & <=2.5	Pass
			10	NV	-2.10	-0.0012	>=-2.5 & <=2.5	Pass
			20	NV	-1.50	-0.0009	>=-2.5 & <=2.5	Pass
			30	NV	-2.70	-0.0016	>=-2.5 & <=2.5	Pass
			40	NV	4.60	0.0027	>=-2.5 & <=2.5	Pass
			50	NV	-4.20	-0.0025	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	1702.5	Outer_Full	20	LV	-1.70	-0.0010	>=-2.5 & <=2.5	Pass
				HV	3.70	0.0022	>=-2.5 & <=2.5	Pass
			-30	NV	-2.60	-0.0015	>=-2.5 & <=2.5	Pass
			-20	NV	2.40	0.0014	>=-2.5 & <=2.5	Pass
			-10	NV	-5.30	-0.0031	>=-2.5 & <=2.5	Pass
			0	NV	-3.10	-0.0018	>=-2.5 & <=2.5	Pass
			10	NV	-1.20	-0.0007	>=-2.5 & <=2.5	Pass
			20	NV	-7.20	-0.0042	>=-2.5 & <=2.5	Pass
			30	NV	-2.80	-0.0016	>=-2.5 & <=2.5	Pass
			40	NV	-4.50	-0.0026	>=-2.5 & <=2.5	Pass
			50	NV	-4.00	-0.0023	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	1702.5	Outer_Full	20	LV	-2.00	-0.0012	>=-2.5 & <=2.5	Pass
				HV	-3.40	-0.0020	>=-2.5 & <=2.5	Pass
			-30	NV	-2.20	-0.0013	>=-2.5 & <=2.5	Pass
			-20	NV	-4.60	-0.0027	>=-2.5 & <=2.5	Pass
			-10	NV	-1.70	-0.0010	>=-2.5 & <=2.5	Pass
			0	NV	-3.00	-0.0018	>=-2.5 & <=2.5	Pass
			10	NV	-1.60	-0.0009	>=-2.5 & <=2.5	Pass
			20	NV	0.70	0.0004	>=-2.5 & <=2.5	Pass
			30	NV	-4.20	-0.0025	>=-2.5 & <=2.5	Pass
			40	NV	-6.60	-0.0039	>=-2.5 & <=2.5	Pass
			50	NV	-4.30	-0.0025	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 64 QAM	1702.5	Outer_Full	20	LV	-2.40	-0.0014	>=-2.5 & <=2.5	Pass
				HV	-2.30	-0.0014	>=-2.5 & <=2.5	Pass
			-30	NV	0.80	0.0005	>=-2.5 & <=2.5	Pass
			-20	NV	-2.10	-0.0012	>=-2.5 & <=2.5	Pass
			-10	NV	-8.10	-0.0048	>=-2.5 & <=2.5	Pass
			0	NV	-2.10	-0.0012	>=-2.5 & <=2.5	Pass
			10	NV	-3.20	-0.0019	>=-2.5 & <=2.5	Pass
			20	NV	-5.60	-0.0033	>=-2.5 & <=2.5	Pass
			30	NV	-3.70	-0.0022	>=-2.5 & <=2.5	Pass
			40	NV	1.30	0.0008	>=-2.5 & <=2.5	Pass
			50	NV	-3.20	-0.0019	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 256 QAM	1702.5	Outer_Full	20	LV	-9.70	-0.0057	>=-2.5 & <=2.5	Pass
				HV	-6.50	-0.0038	>=-2.5 & <=2.5	Pass
			-30	NV	-3.50	-0.0021	>=-2.5 & <=2.5	Pass
			-20	NV	-4.70	-0.0028	>=-2.5 & <=2.5	Pass
			-10	NV	-3.20	-0.0019	>=-2.5 & <=2.5	Pass

			0	NV	-5.80	-0.0034	>=-2.5 & <=2.5	Pass
			10	NV	-5.90	-0.0035	>=-2.5 & <=2.5	Pass
			20	NV	-2.20	-0.0013	>=-2.5 & <=2.5	Pass
			30	NV	-6.00	-0.0035	>=-2.5 & <=2.5	Pass
			40	NV	-3.30	-0.0019	>=-2.5 & <=2.5	Pass
			50	NV	-5.60	-0.0033	>=-2.5 & <=2.5	Pass
CP-OFDM QPSK	1702.5	Outer_Full	20	LV	-9.60	-0.0056	>=-2.5 & <=2.5	Pass
				HV	-6.80	-0.0040	>=-2.5 & <=2.5	Pass
			-30	NV	-3.80	-0.0022	>=-2.5 & <=2.5	Pass
			-20	NV	-7.00	-0.0041	>=-2.5 & <=2.5	Pass
			-10	NV	-6.00	-0.0035	>=-2.5 & <=2.5	Pass
			0	NV	-12.80	-0.0075	>=-2.5 & <=2.5	Pass
			10	NV	-7.50	-0.0044	>=-2.5 & <=2.5	Pass
			20	NV	-9.30	-0.0055	>=-2.5 & <=2.5	Pass
			30	NV	-7.70	-0.0045	>=-2.5 & <=2.5	Pass
			40	NV	-6.90	-0.0041	>=-2.5 & <=2.5	Pass
			50	NV	-7.10	-0.0042	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	1702.5	Outer_Full	20	LV	-3.30	-0.0019	>=-2.5 & <=2.5	Pass
				HV	-10.20	-0.0060	>=-2.5 & <=2.5	Pass
			-30	NV	-4.30	-0.0025	>=-2.5 & <=2.5	Pass
			-20	NV	-9.80	-0.0058	>=-2.5 & <=2.5	Pass
			-10	NV	-8.30	-0.0049	>=-2.5 & <=2.5	Pass
			0	NV	-9.90	-0.0058	>=-2.5 & <=2.5	Pass
			10	NV	-6.90	-0.0041	>=-2.5 & <=2.5	Pass
			20	NV	-9.70	-0.0057	>=-2.5 & <=2.5	Pass
			30	NV	-5.60	-0.0033	>=-2.5 & <=2.5	Pass
			40	NV	-5.10	-0.0030	>=-2.5 & <=2.5	Pass
			50	NV	-6.80	-0.0040	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	1702.5	Outer_Full	20	LV	-5.30	-0.0031	>=-2.5 & <=2.5	Pass
				HV	-5.20	-0.0031	>=-2.5 & <=2.5	Pass
			-30	NV	-12.10	-0.0071	>=-2.5 & <=2.5	Pass
			-20	NV	-1.00	-0.0006	>=-2.5 & <=2.5	Pass
			-10	NV	-5.40	-0.0032	>=-2.5 & <=2.5	Pass
			0	NV	-5.90	-0.0035	>=-2.5 & <=2.5	Pass
			10	NV	-4.70	-0.0028	>=-2.5 & <=2.5	Pass
			20	NV	-5.60	-0.0033	>=-2.5 & <=2.5	Pass
			30	NV	-4.90	-0.0029	>=-2.5 & <=2.5	Pass
			40	NV	-6.60	-0.0039	>=-2.5 & <=2.5	Pass
			50	NV	-11.60	-0.0068	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	1702.5	Outer_Full	20	LV	-4.00	-0.0023	>=-2.5 & <=2.5	Pass
				HV	-6.50	-0.0038	>=-2.5 & <=2.5	Pass
			-30	NV	-9.60	-0.0056	>=-2.5 & <=2.5	Pass
			-20	NV	-4.20	-0.0025	>=-2.5 & <=2.5	Pass
			-10	NV	-3.80	-0.0022	>=-2.5 & <=2.5	Pass
			0	NV	-5.10	-0.0030	>=-2.5 & <=2.5	Pass
			10	NV	-7.20	-0.0042	>=-2.5 & <=2.5	Pass
			20	NV	-4.80	-0.0028	>=-2.5 & <=2.5	Pass
			30	NV	-7.80	-0.0046	>=-2.5 & <=2.5	Pass
			40	NV	-7.70	-0.0045	>=-2.5 & <=2.5	Pass
			50	NV	-6.70	-0.0039	>=-2.5 & <=2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

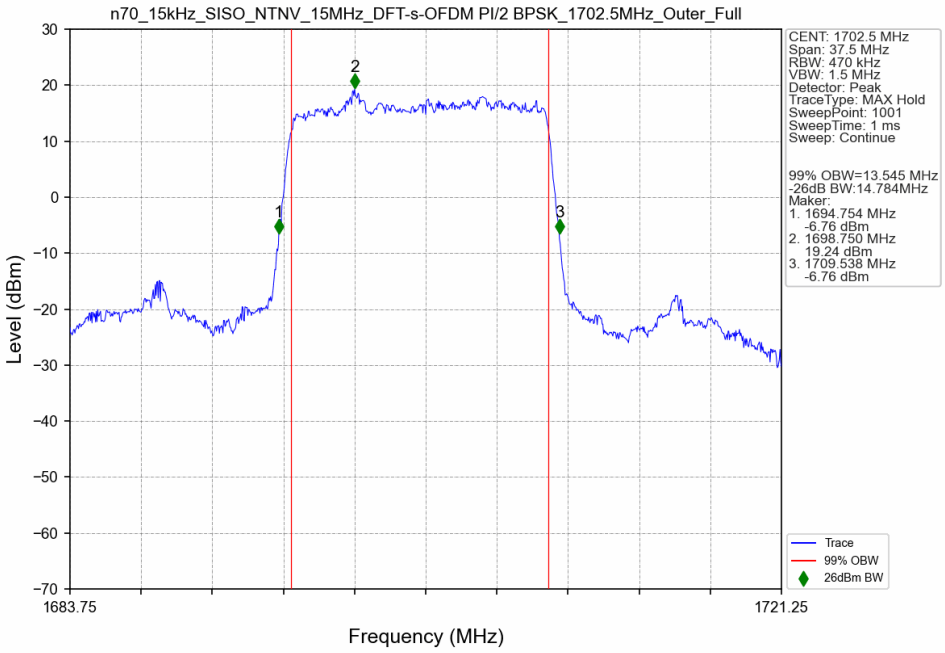
3.1.1 15k_SISO_15MHz_NTNV

5G NR n70 SCS=15kHz SISO 15MHz NTNV						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	1702.5	Outer_Full	13.54	14.78	/	Pass
	1702.5	Outer_Full	13.54	14.80	/	Pass
	1702.5	Outer_Full	13.53	14.76	/	Pass
DFT-s-OFDM QPSK	1702.5	Outer_Full	13.61	14.83	/	Pass
	1702.5	Outer_Full	13.61	14.76	/	Pass
	1702.5	Outer_Full	13.60	14.80	/	Pass
DFT-s-OFDM 16 QAM	1702.5	Outer_Full	13.65	14.83	/	Pass
	1702.5	Outer_Full	13.64	14.84	/	Pass
	1702.5	Outer_Full	13.66	14.84	/	Pass
DFT-s-OFDM 64 QAM	1702.5	Outer_Full	13.52	14.70	/	Pass
	1702.5	Outer_Full	13.54	14.73	/	Pass
	1702.5	Outer_Full	13.54	14.71	/	Pass
DFT-s-OFDM 256 QAM	1702.5	Outer_Full	13.57	14.81	/	Pass
	1702.5	Outer_Full	13.57	14.83	/	Pass
	1702.5	Outer_Full	13.56	14.88	/	Pass
CP-OFDM QPSK	1702.5	Outer_Full	14.23	15.40	/	Pass
	1702.5	Outer_Full	14.23	15.45	/	Pass
	1702.5	Outer_Full	14.23	15.37	/	Pass
CP-OFDM 16 QAM	1702.5	Outer_Full	14.24	15.51	/	Pass
	1702.5	Outer_Full	14.26	15.42	/	Pass
	1702.5	Outer_Full	14.25	15.49	/	Pass
CP-OFDM 64 QAM	1702.5	Outer_Full	14.28	15.59	/	Pass
	1702.5	Outer_Full	14.27	15.54	/	Pass
	1702.5	Outer_Full	14.29	15.52	/	Pass
CP-OFDM 256 QAM	1702.5	Outer_Full	14.20	15.45	/	Pass
	1702.5	Outer_Full	14.21	15.53	/	Pass
	1702.5	Outer_Full	14.20	15.33	/	Pass

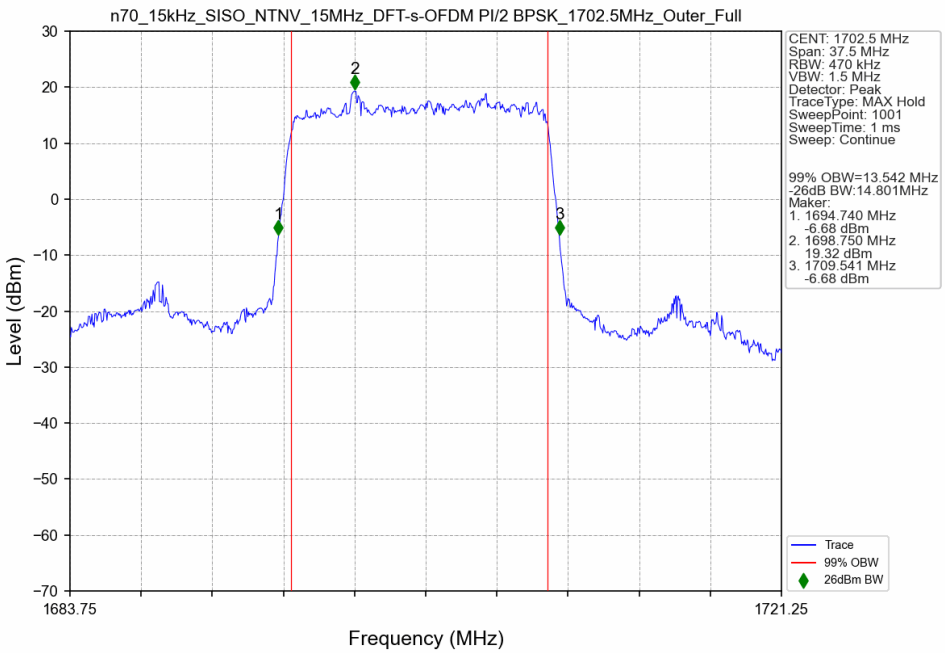
3.2 Test Graph

3.2.1 15k_SISO_15MHz_NTNV

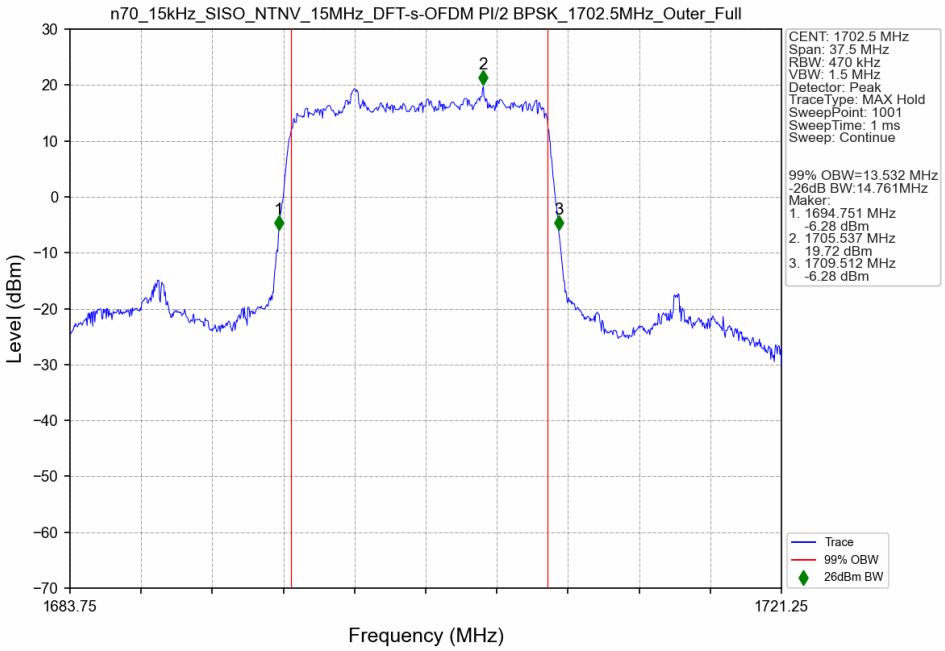
n70_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_1702.5MHz_Outer_Full_Ant2



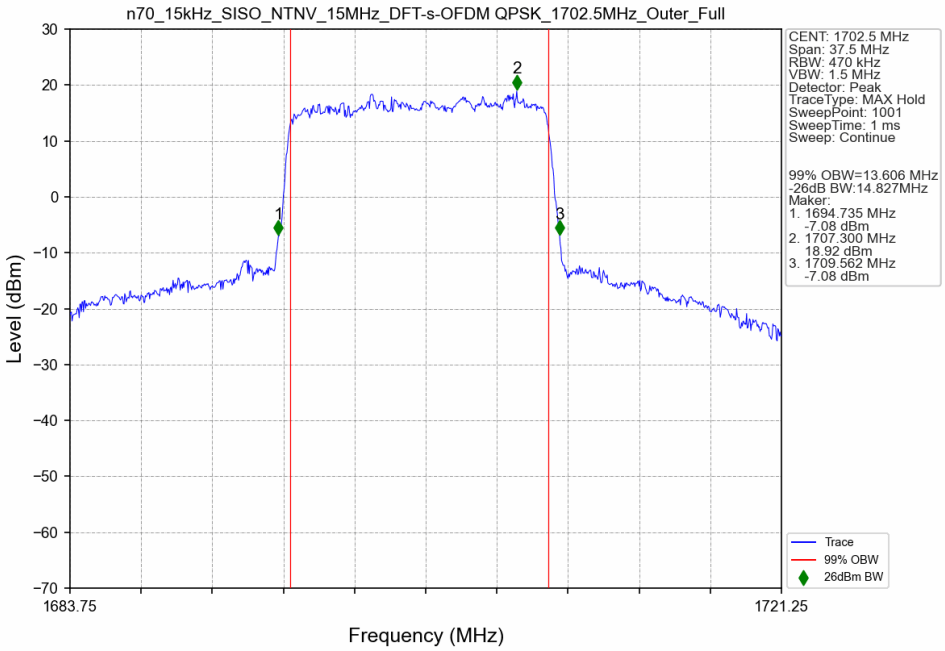
n70_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_1702.5MHz_Outer_Full_Ant2



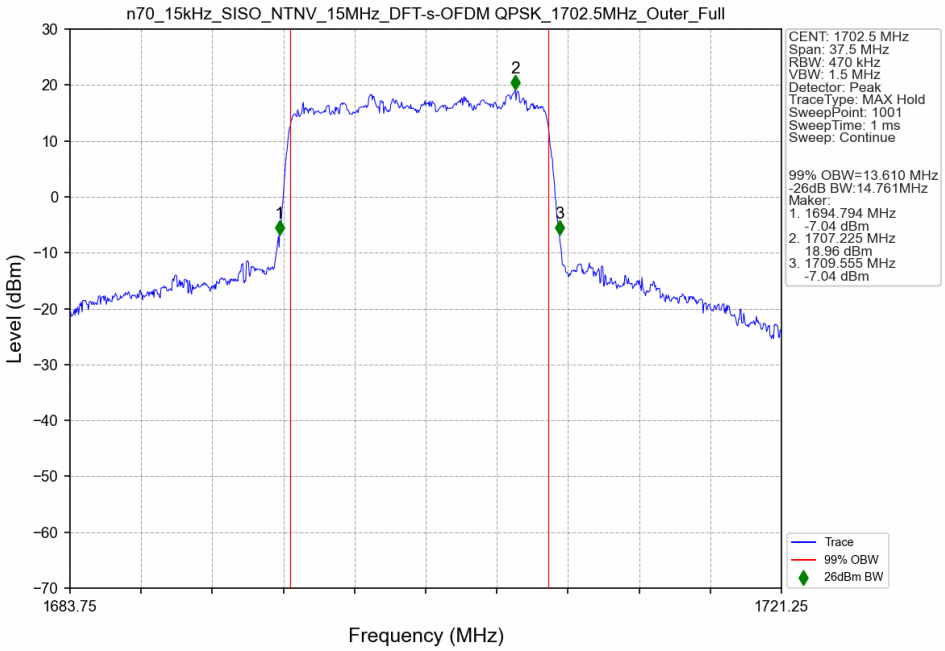
n70_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_1702.5MHz_Outer_Full_Ant2



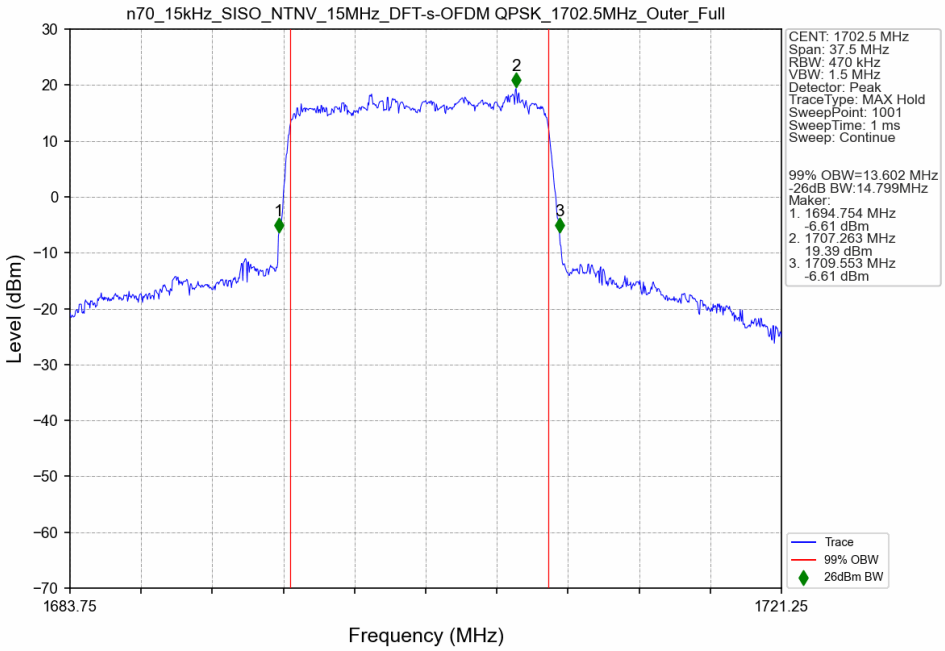
n70_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_1702.5MHz_Outer_Full_Ant2



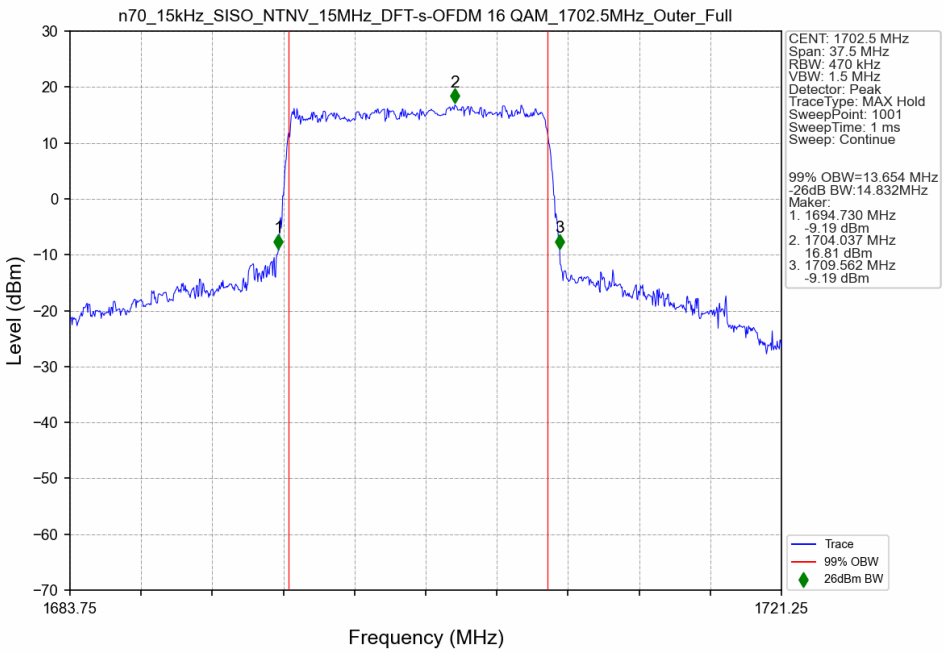
n70_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_1702.5MHz_Outer_Full_Ant2



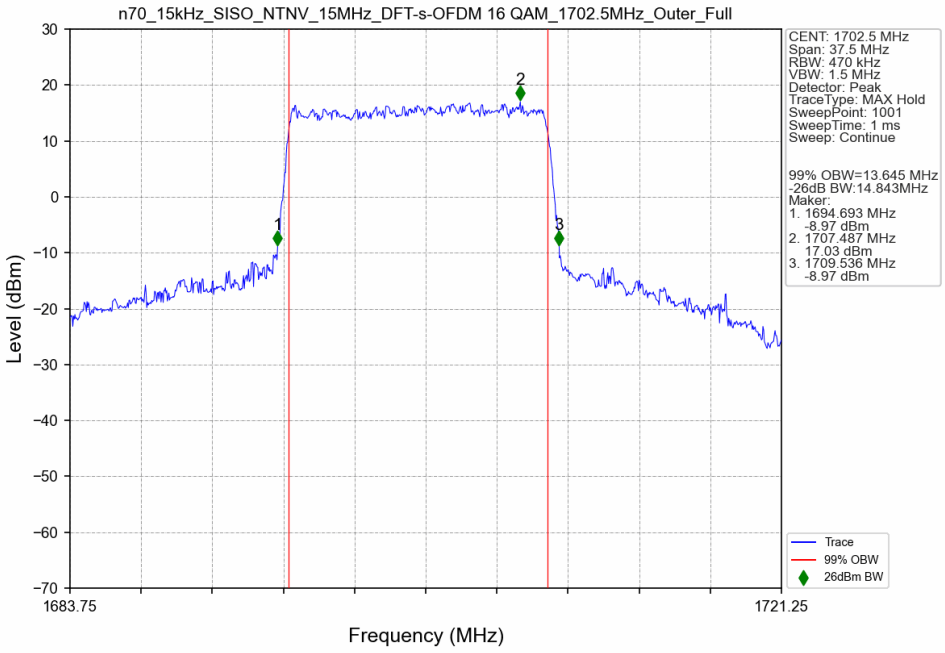
n70_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_1702.5MHz_Outer_Full_Ant2



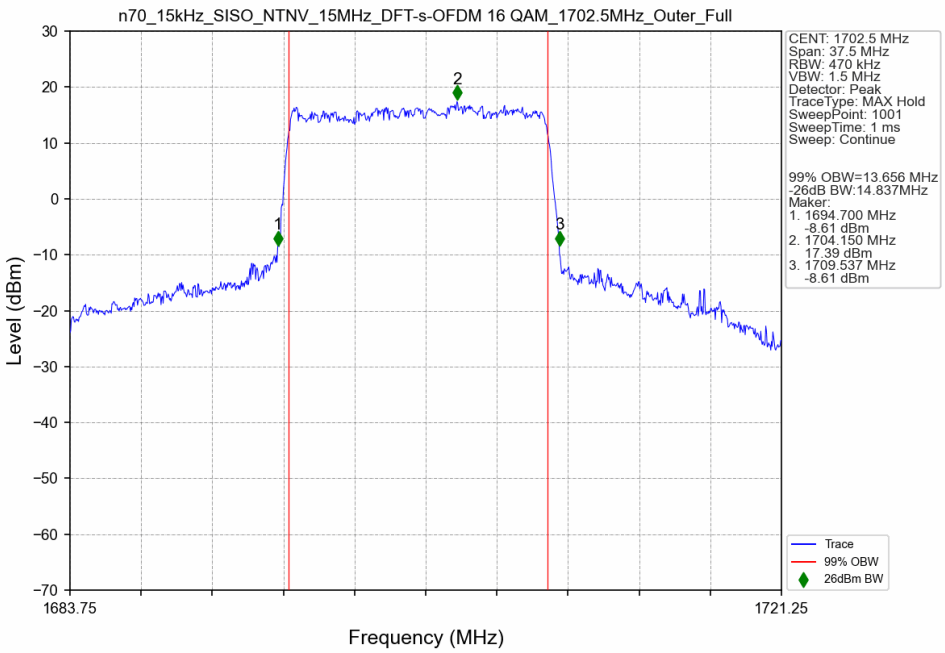
n70_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 16 QAM_1702.5MHz_Outer_Full_Ant2



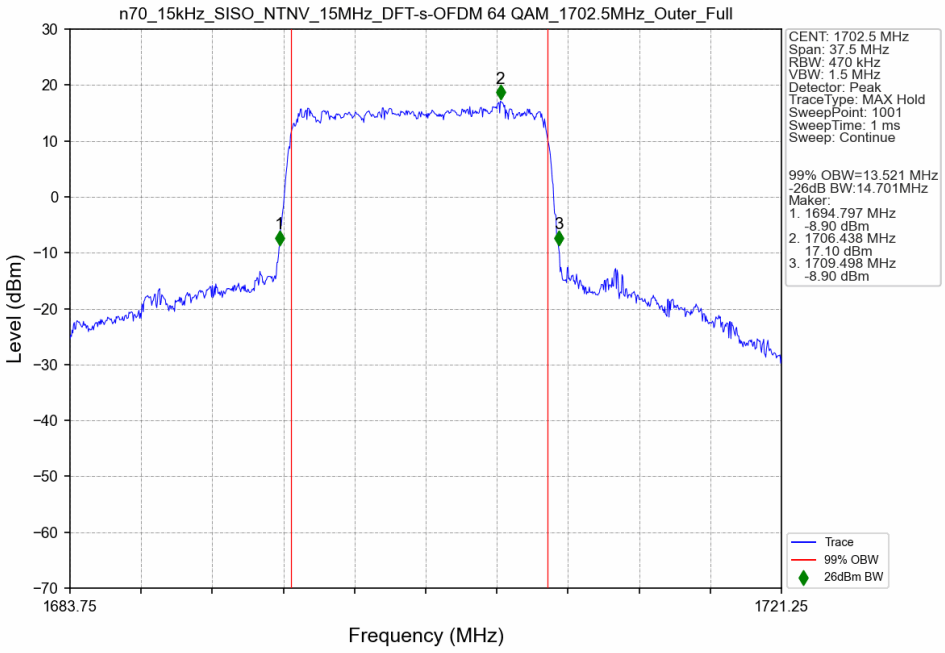
n70_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 16 QAM_1702.5MHz_Outer_Full_Ant2



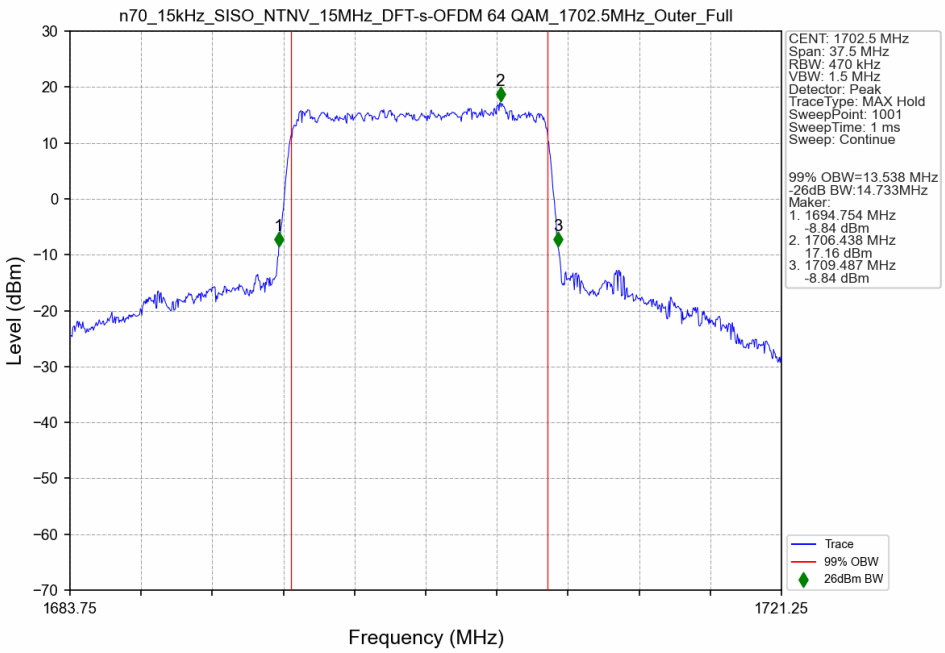
n70_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 16 QAM_1702.5MHz_Outer_Full_Ant2



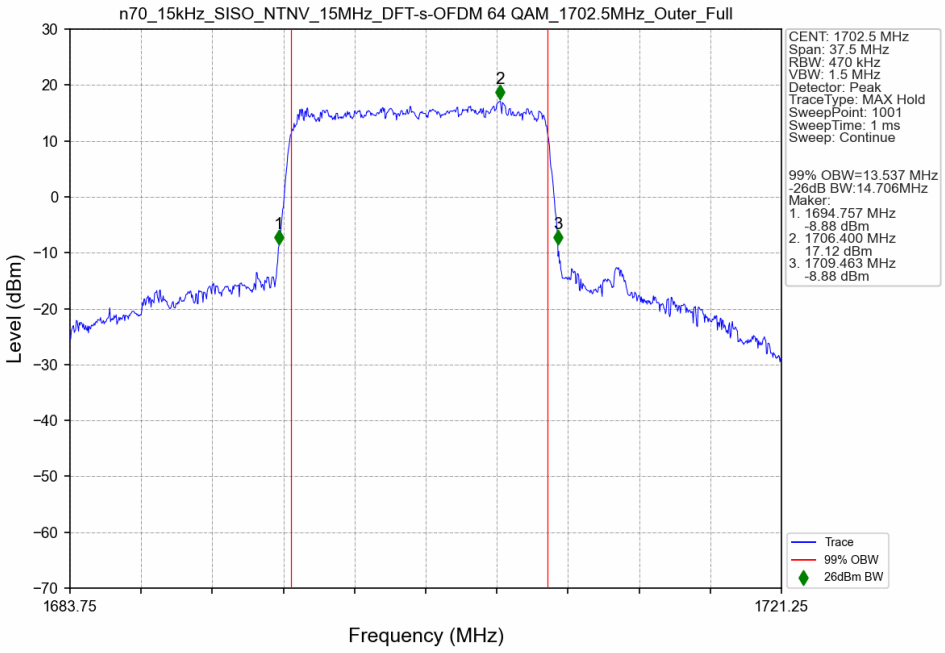
n70_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 64 QAM_1702.5MHz_Outer_Full_Ant2



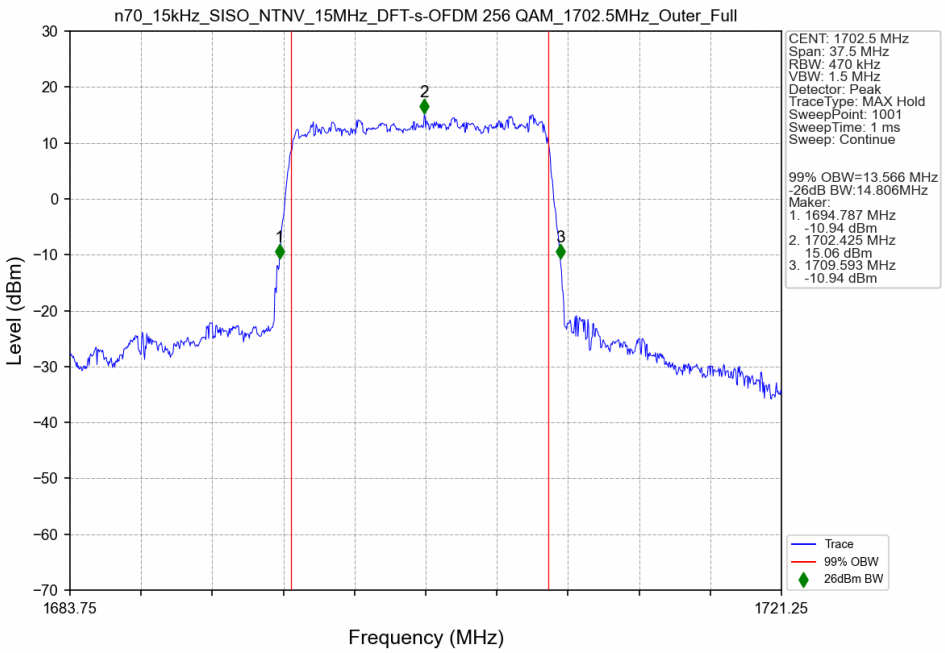
n70_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 64 QAM_1702.5MHz_Outer_Full_Ant2



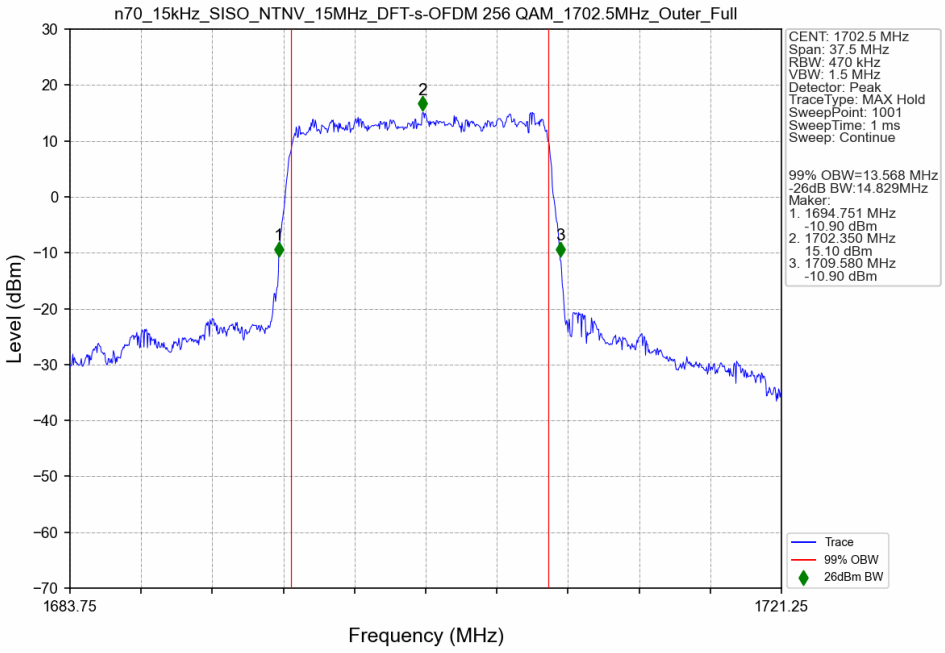
n70_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 64 QAM_1702.5MHz_Outer_Full_Ant2



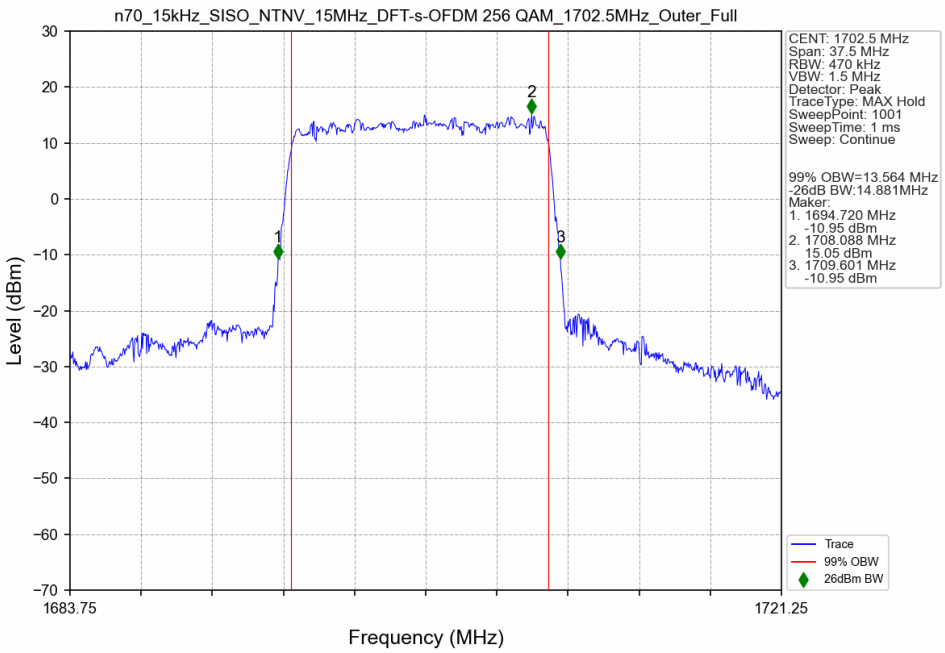
n70_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 256 QAM_1702.5MHz_Outer_Full_Ant2



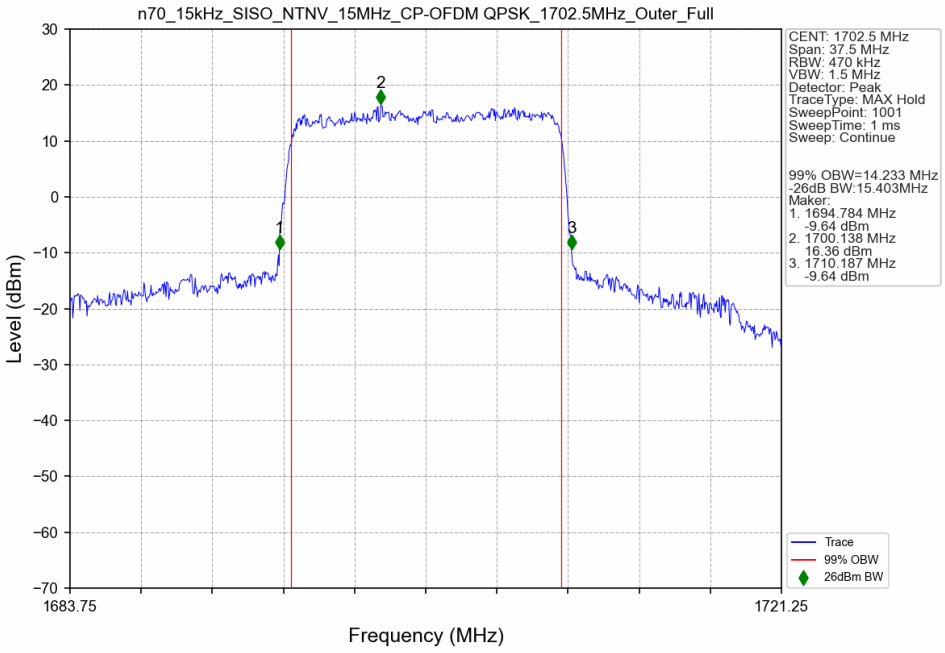
n70_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 256 QAM_1702.5MHz_Outer_Full_Ant2



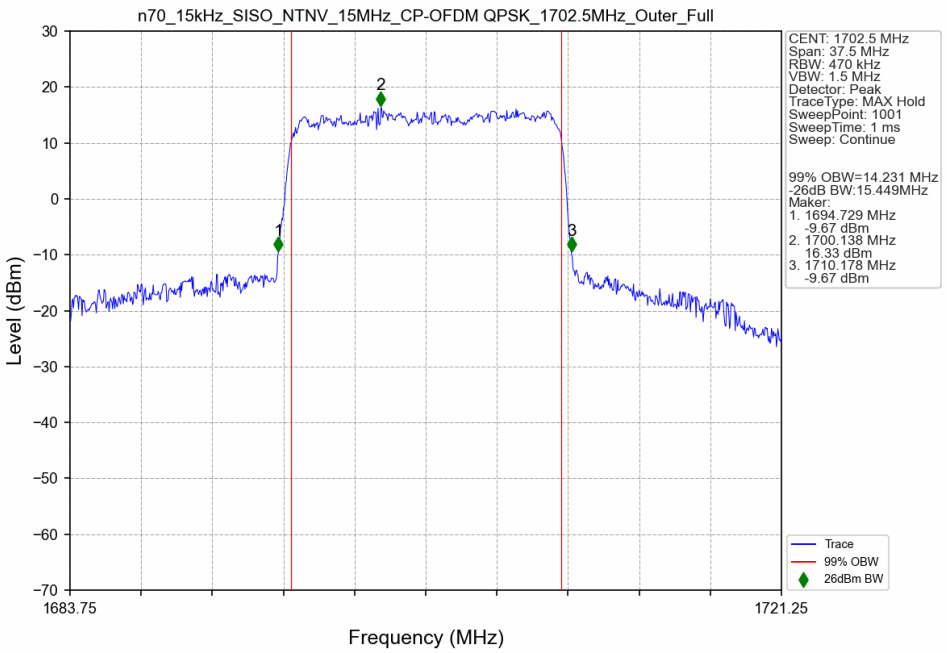
n70_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 256 QAM_1702.5MHz_Outer_Full_Ant2



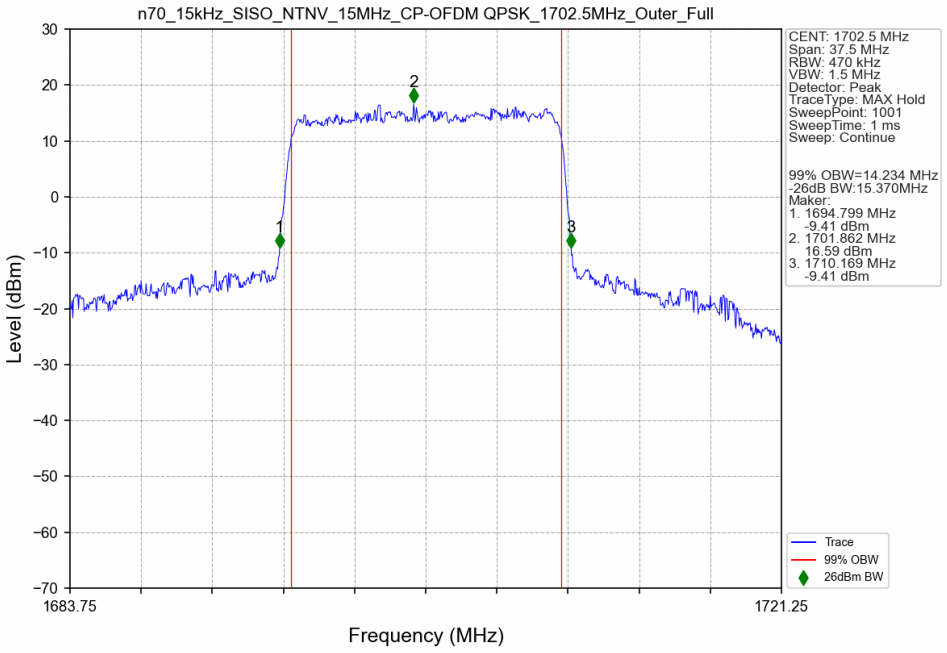
n70_15kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_1702.5MHz_Outer_Full_Ant2



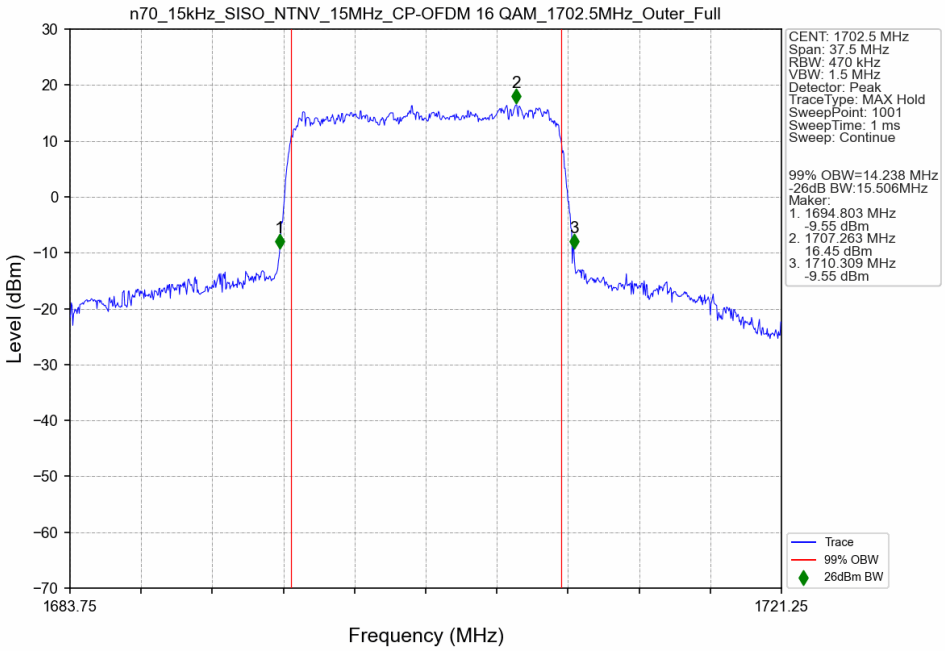
n70_15kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_1702.5MHz_Outer_Full_Ant2



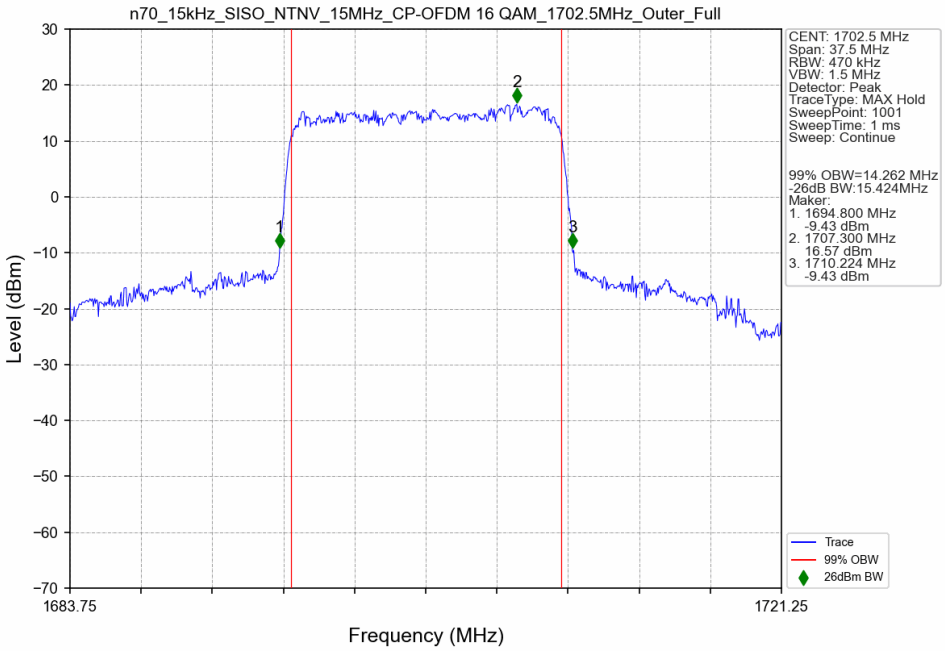
n70_15kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_1702.5MHz_Outer_Full_Ant2



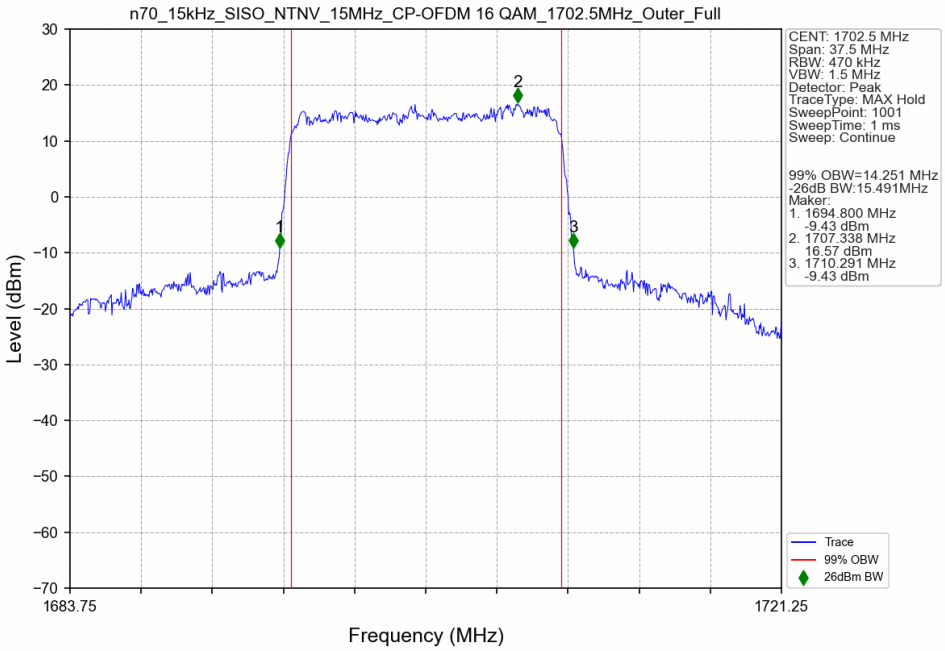
n70_15kHz_SISO_NTNV_15MHz_CP-OFDM 16 QAM_1702.5MHz_Outer_Full_Ant2



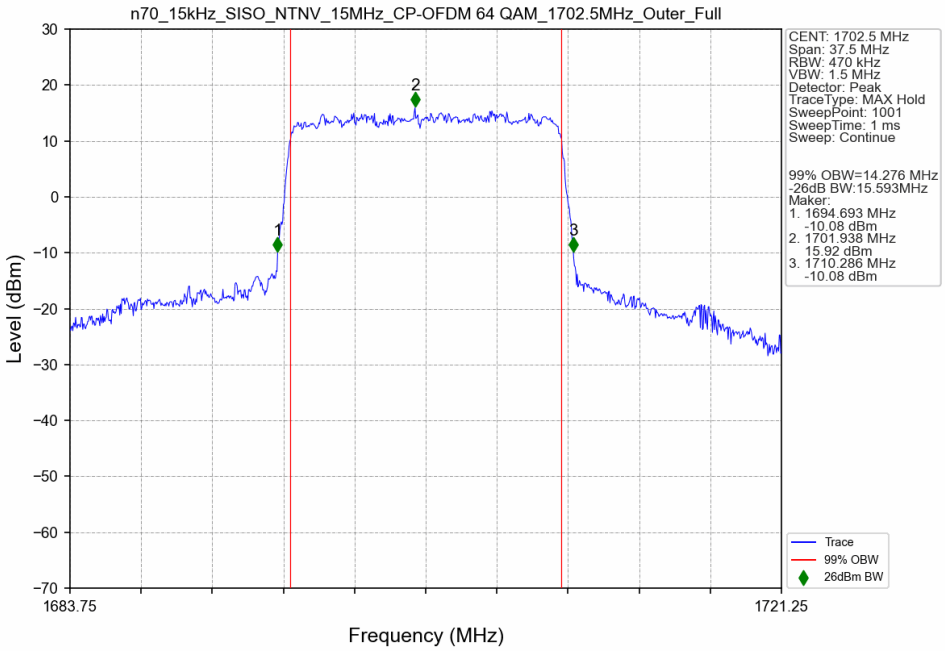
n70_15kHz_SISO_NTNV_15MHz_CP-OFDM 16 QAM_1702.5MHz_Outer_Full_Ant2



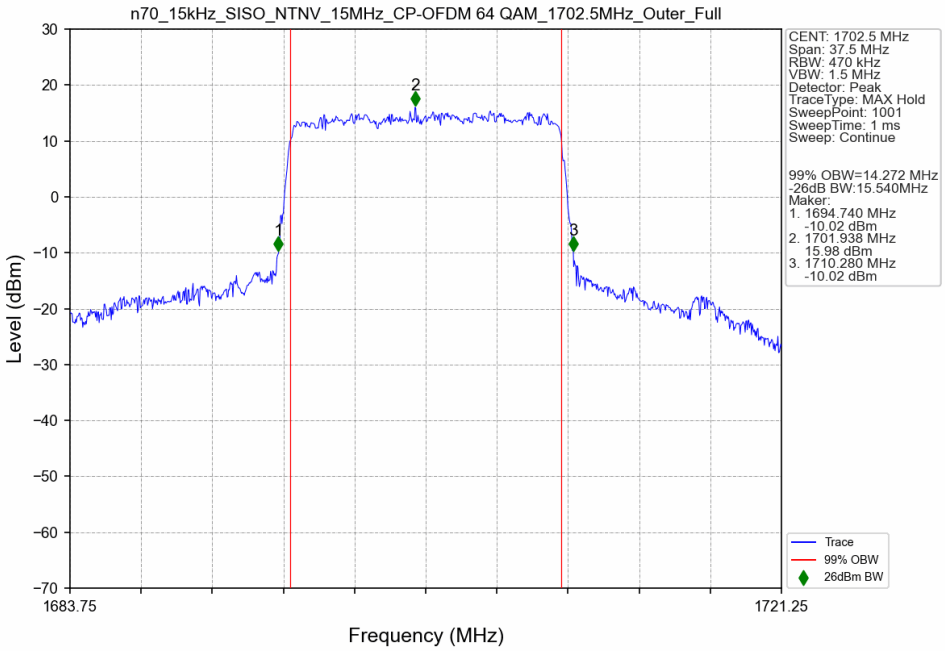
n70_15kHz_SISO_NTNV_15MHz_CP-OFDM 16 QAM_1702.5MHz_Outer_Full_Ant2



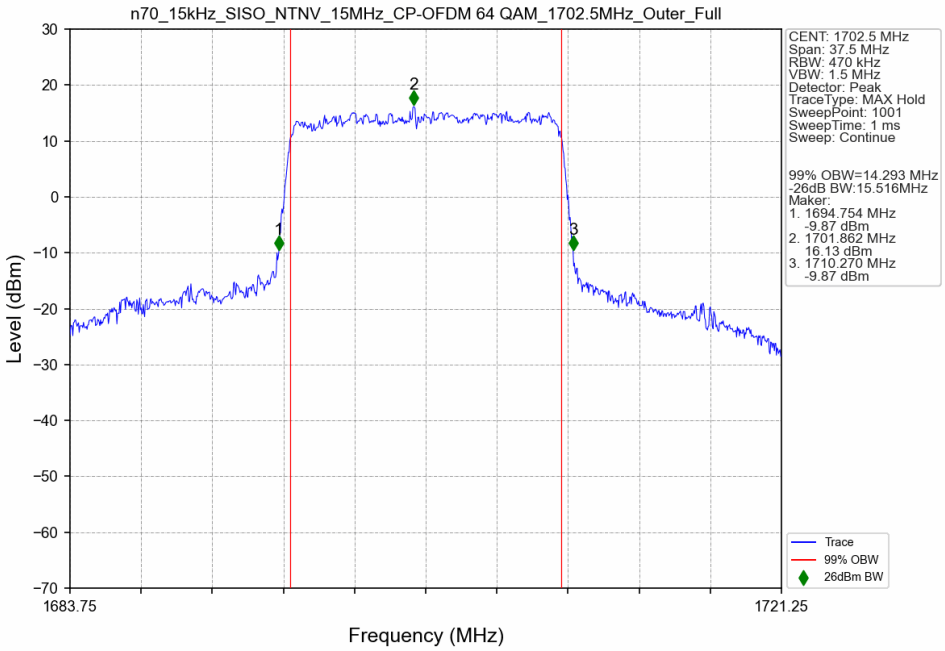
n70_15kHz_SISO_NTNV_15MHz_CP-OFDM 64 QAM_1702.5MHz_Outer_Full_Ant2



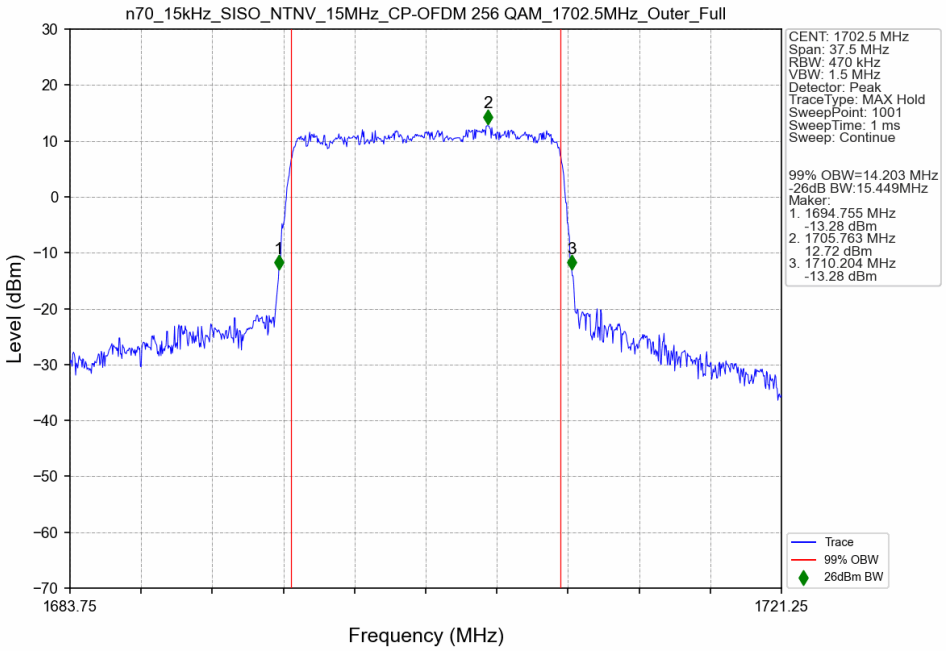
n70_15kHz_SISO_NTNV_15MHz_CP-OFDM 64 QAM_1702.5MHz_Outer_Full_Ant2



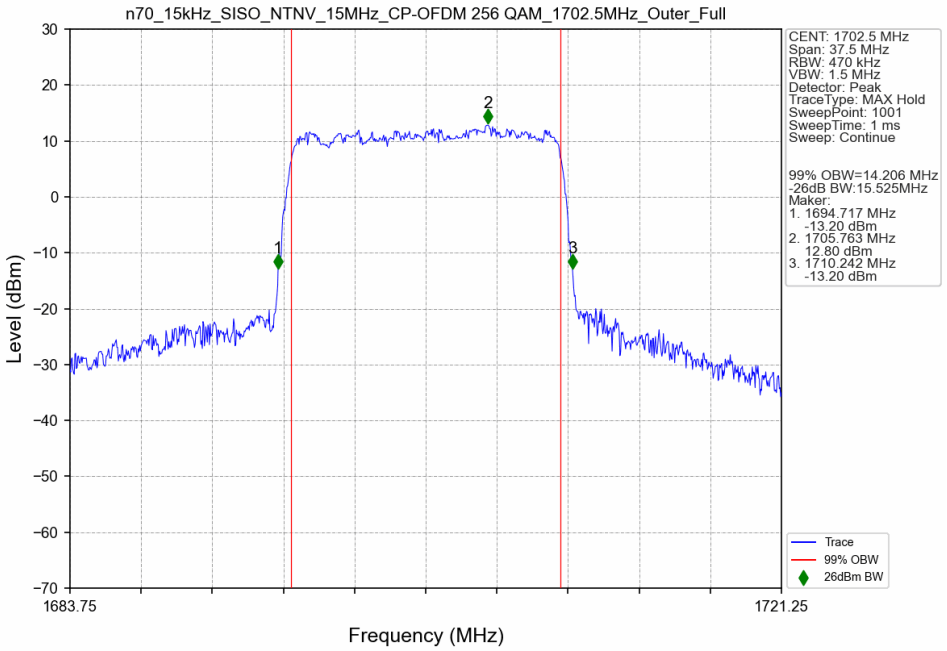
n70_15kHz_SISO_NTNV_15MHz_CP-OFDM 64 QAM_1702.5MHz_Outer_Full_Ant2



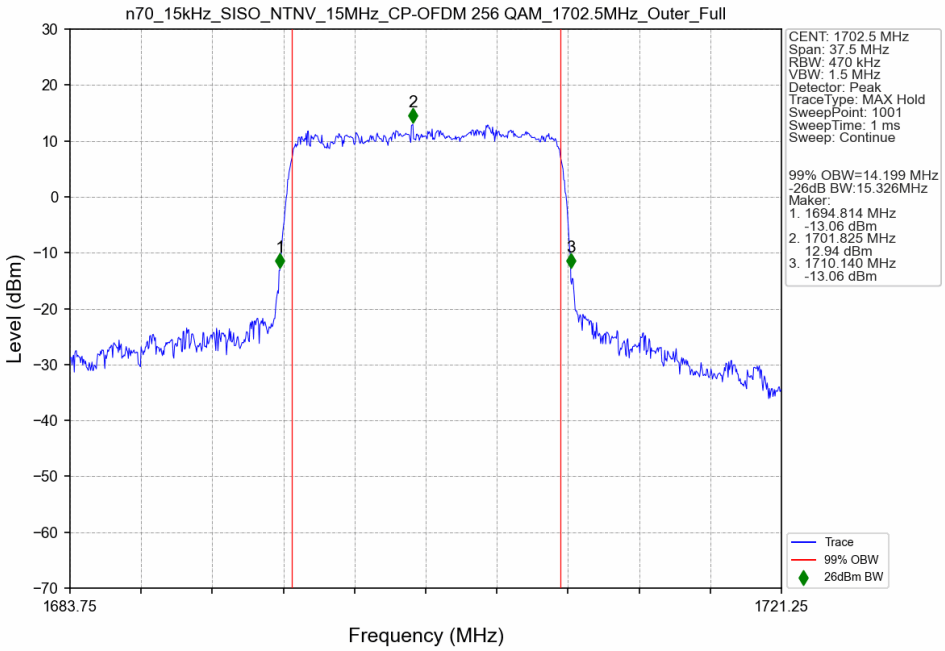
n70_15kHz_SISO_NTNV_15MHz_CP-OFDM 256 QAM_1702.5MHz_Outer_Full_Ant2



n70_15kHz_SISO_NTNV_15MHz_CP-OFDM 256 QAM_1702.5MHz_Outer_Full_Ant2



n70_15kHz_SISO_NTNV_15MHz_CP-OFDM 256 QAM_1702.5MHz_Outer_Full_Ant2



4. Peak-Average Ratio

4.1 Test Result

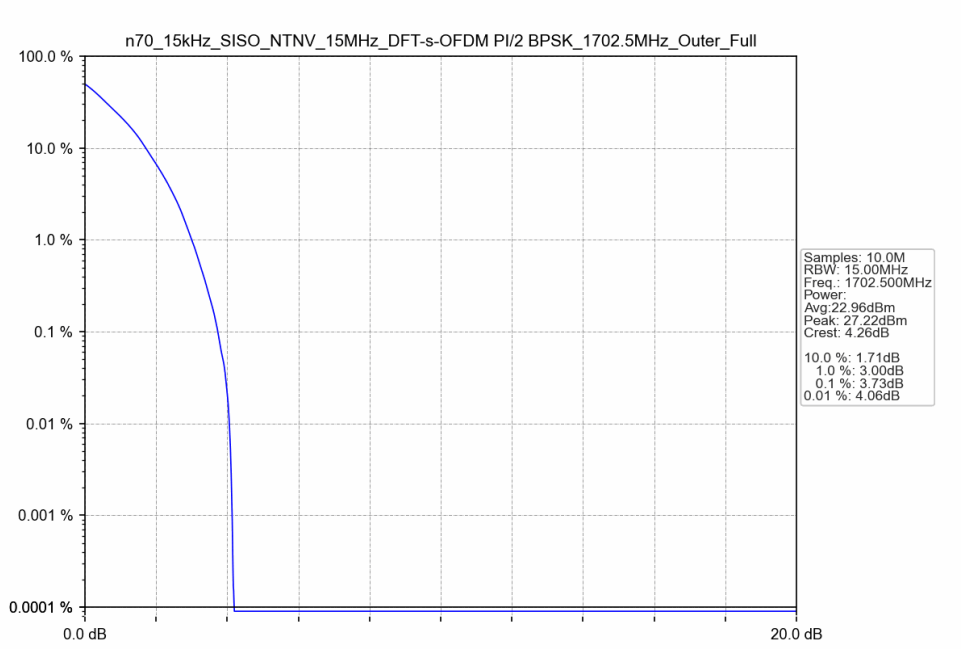
4.1.1 15k_SISO_15MHz_NTNV

5G NR n70 SCS=15kHz SISO 15MHz NTNV							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant2	Ant2*	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	1702.5	Outer_Full	3.73	/	/	<=13	Pass
	1702.5	Outer_Full	3.69	/	/	<=13	Pass
	1702.5	Outer_Full	3.73	/	/	<=13	Pass
DFT-s-OFDM QPSK	1702.5	Outer_Full	4.49	/	/	<=13	Pass
	1702.5	Outer_Full	4.44	/	/	<=13	Pass
	1702.5	Outer_Full	4.50	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	1702.5	Outer_Full	5.22	/	/	<=13	Pass
	1702.5	Outer_Full	5.26	/	/	<=13	Pass
	1702.5	Outer_Full	5.30	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	1702.5	Outer_Full	5.56	/	/	<=13	Pass
	1702.5	Outer_Full	5.60	/	/	<=13	Pass
	1702.5	Outer_Full	5.59	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	1702.5	Outer_Full	6.28	/	/	<=13	Pass
	1702.5	Outer_Full	6.28	/	/	<=13	Pass
	1702.5	Outer_Full	6.28	/	/	<=13	Pass
CP-OFDM QPSK	1702.5	Outer_Full	6.26	/	/	<=13	Pass
	1702.5	Outer_Full	6.33	/	/	<=13	Pass
	1702.5	Outer_Full	6.31	/	/	<=13	Pass
CP-OFDM 16 QAM	1702.5	Outer_Full	6.60	/	/	<=13	Pass
	1702.5	Outer_Full	6.42	/	/	<=13	Pass
	1702.5	Outer_Full	6.44	/	/	<=13	Pass
CP-OFDM 64 QAM	1702.5	Outer_Full	6.72	/	/	<=13	Pass
	1702.5	Outer_Full	6.73	/	/	<=13	Pass
	1702.5	Outer_Full	6.69	/	/	<=13	Pass
CP-OFDM 256 QAM	1702.5	Outer_Full	8.07	/	/	<=13	Pass
	1702.5	Outer_Full	8.08	/	/	<=13	Pass
	1702.5	Outer_Full	8.08	/	/	<=13	Pass

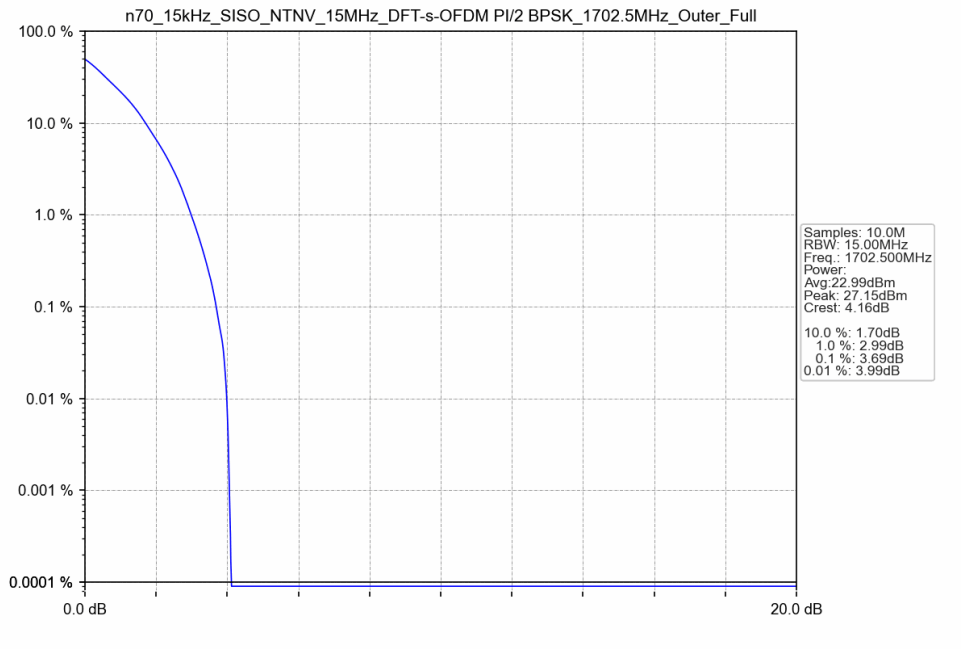
4.2 Test Graph

4.2.1 15k_SISO_15MHz_NTNV

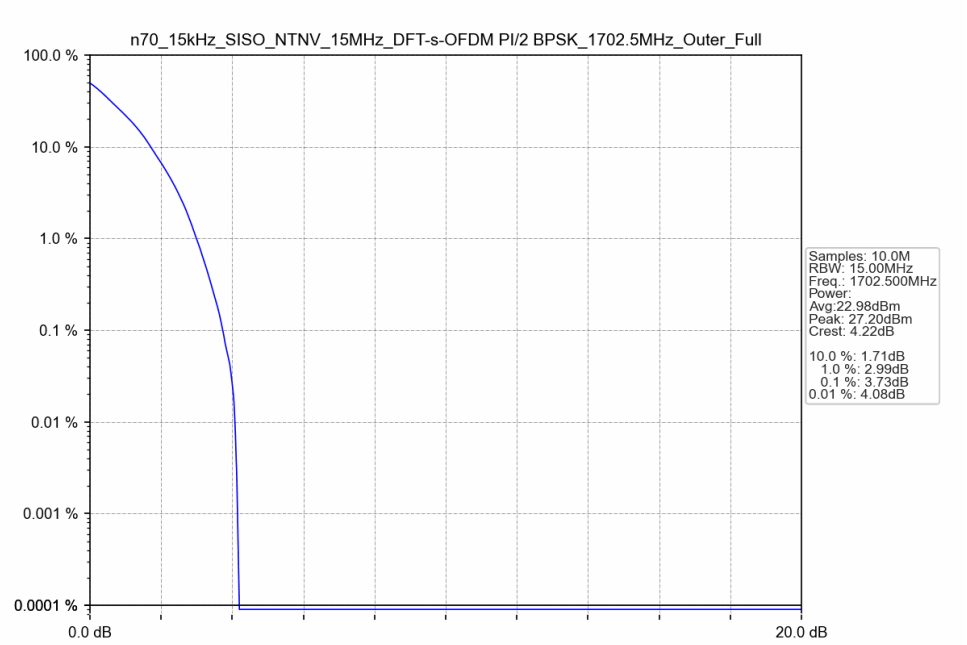
n70_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_1702.5MHz_Outer_Full_Ant2



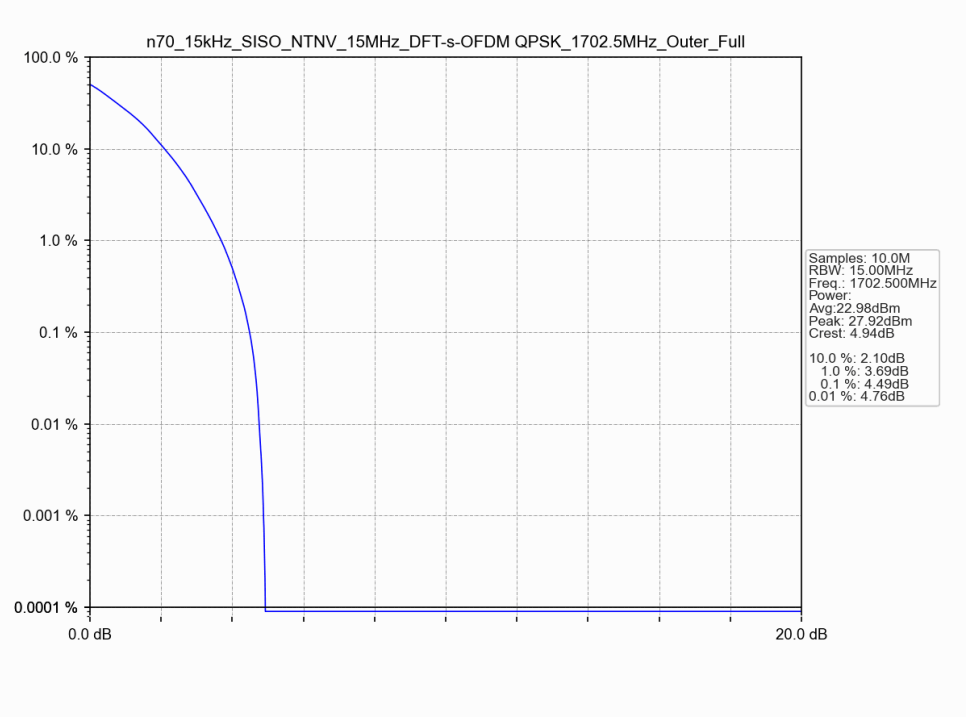
n70_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_1702.5MHz_Outer_Full_Ant2



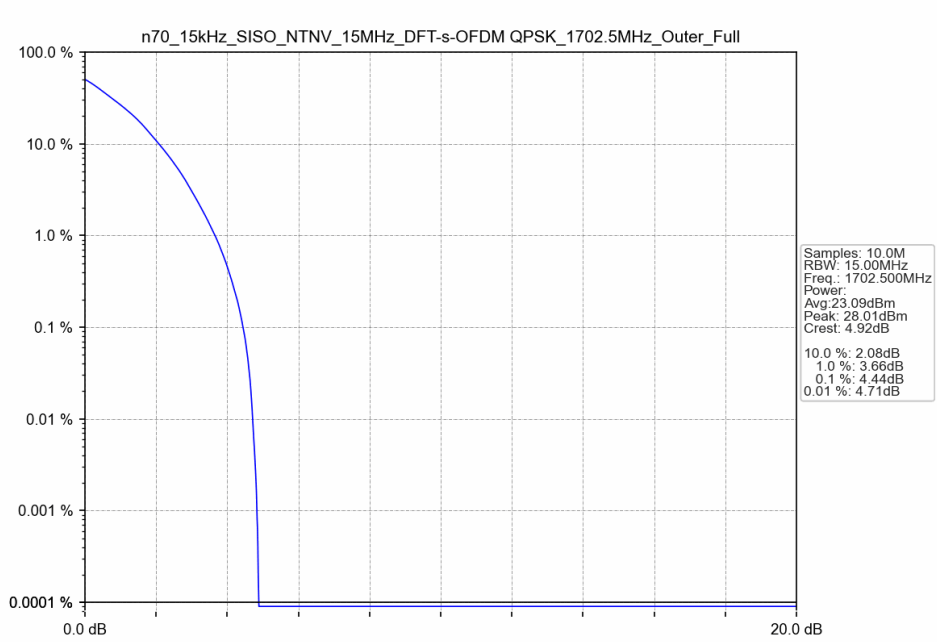
n70_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_1702.5MHz_Outer_Full_Ant2



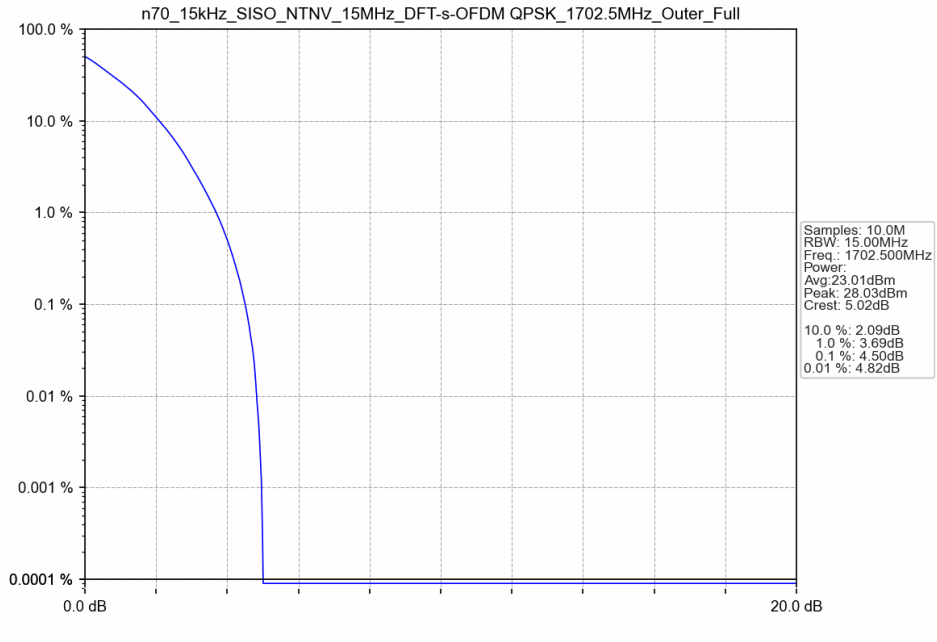
n70_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_1702.5MHz_Outer_Full_Ant2



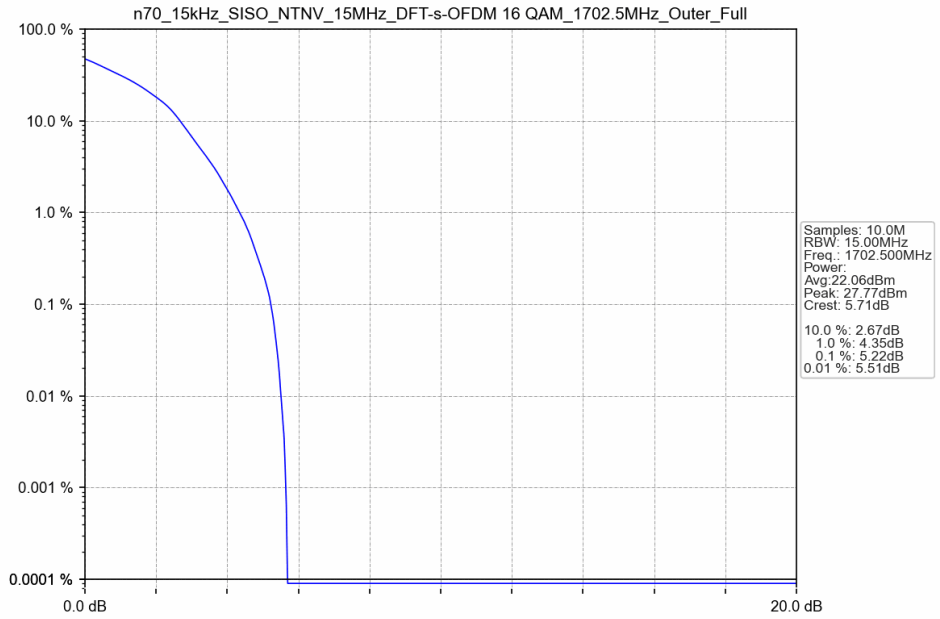
n70_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_1702.5MHz_Outer_Full_Ant2



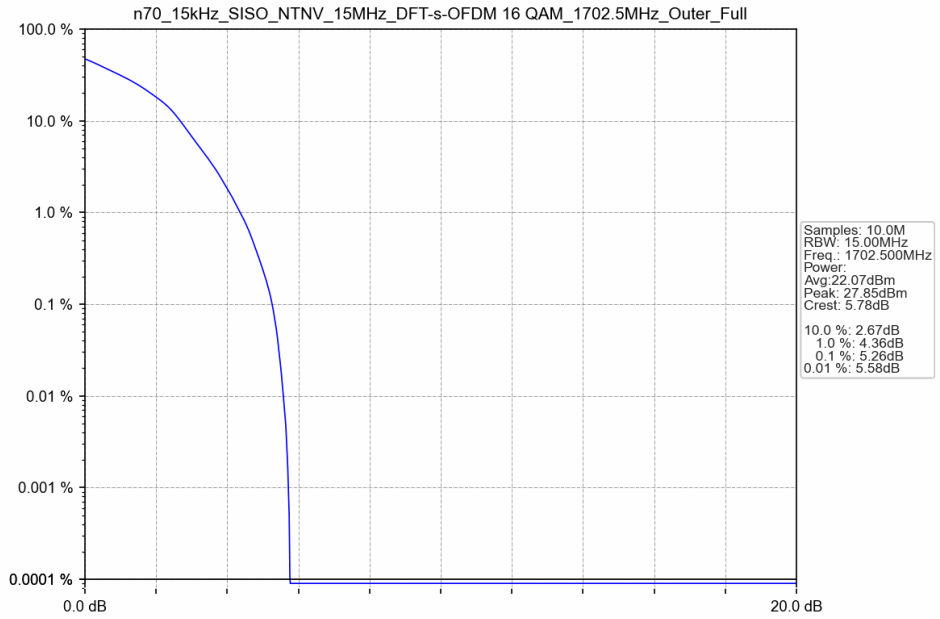
n70_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_1702.5MHz_Outer_Full_Ant2



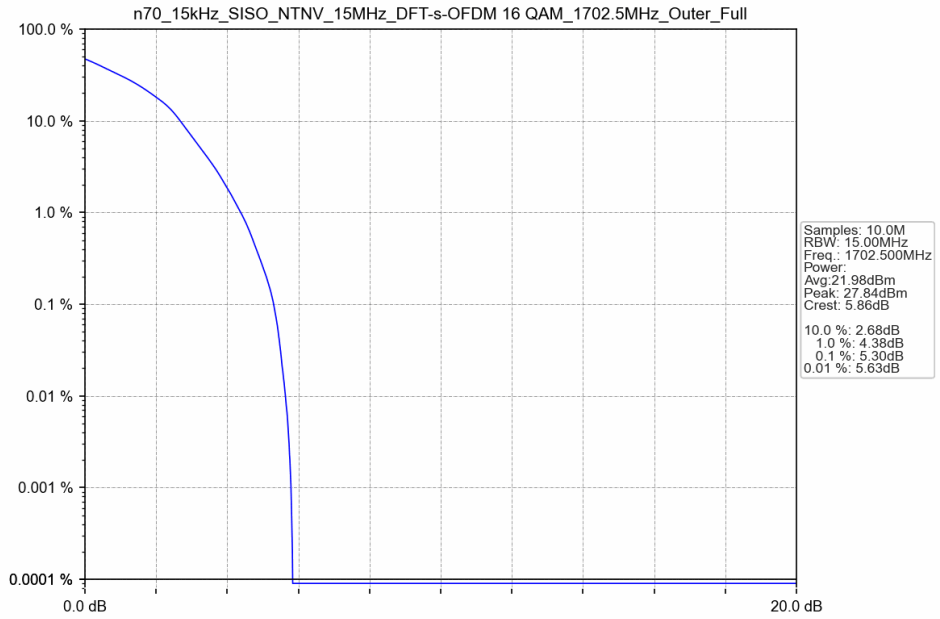
n70_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 16 QAM_1702.5MHz_Outer_Full_Ant2



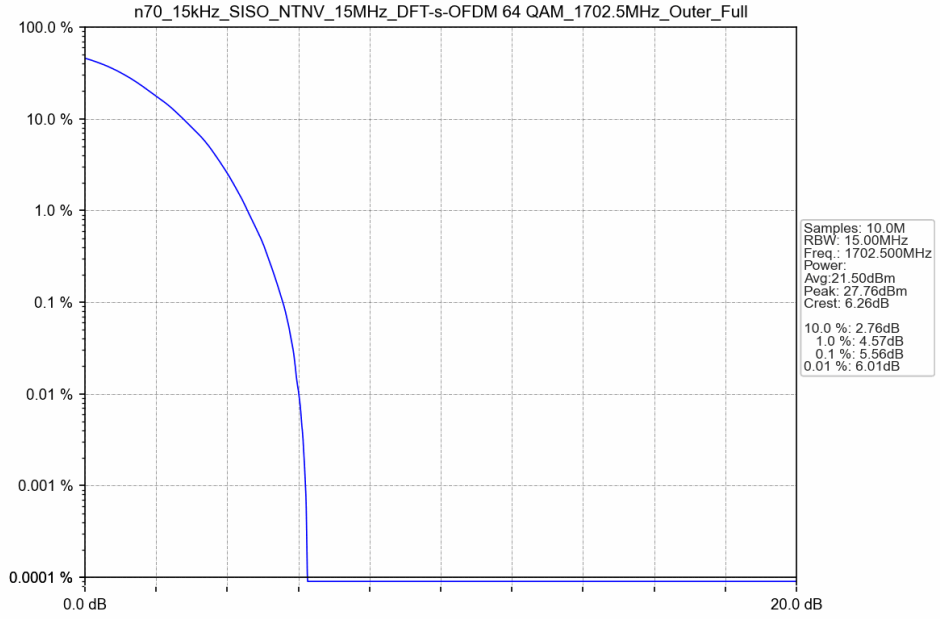
n70_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 16 QAM_1702.5MHz_Outer_Full_Ant2



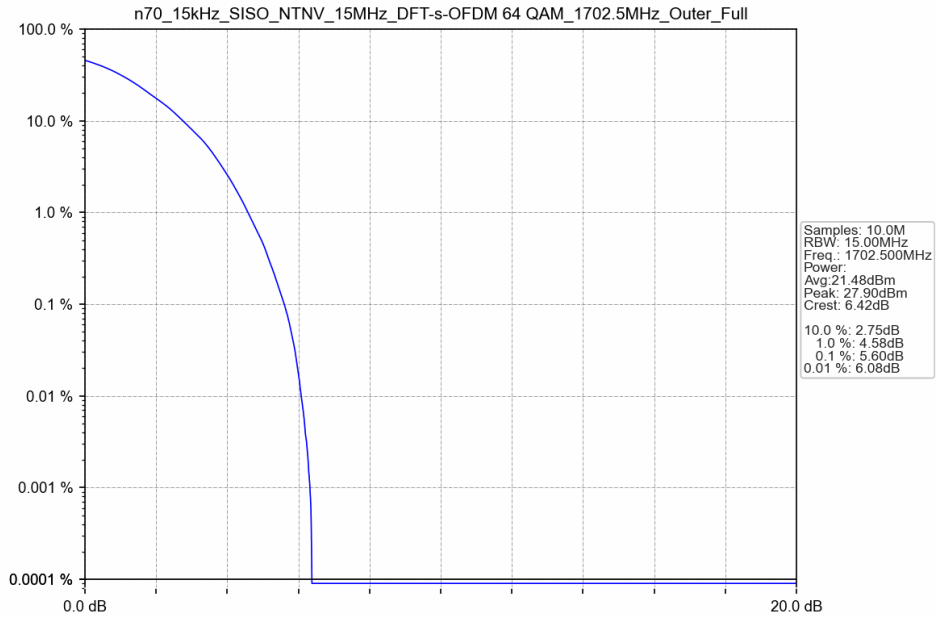
n70_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 16 QAM_1702.5MHz_Outer_Full_Ant2



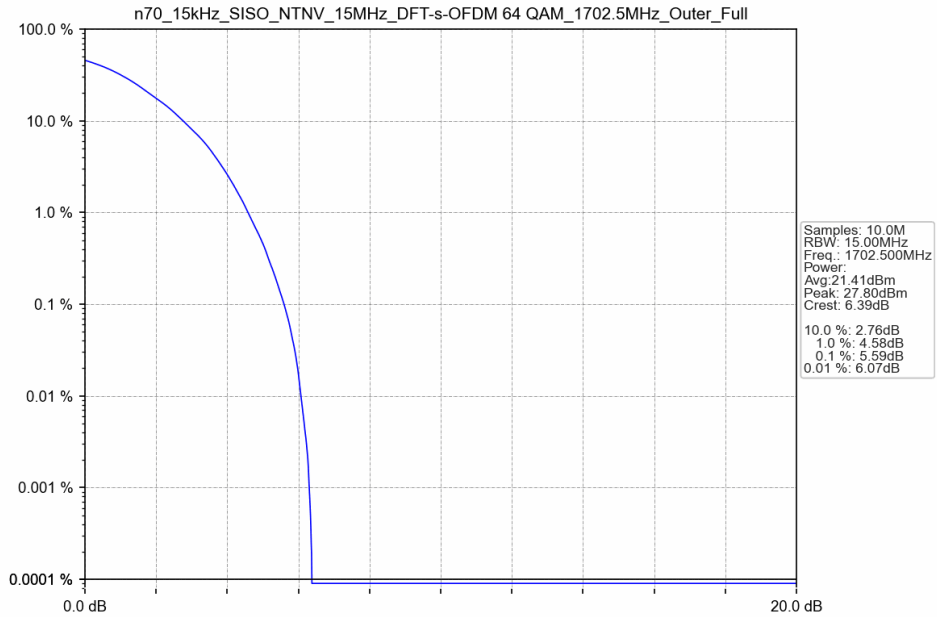
n70_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 64 QAM_1702.5MHz_Outer_Full_Ant2



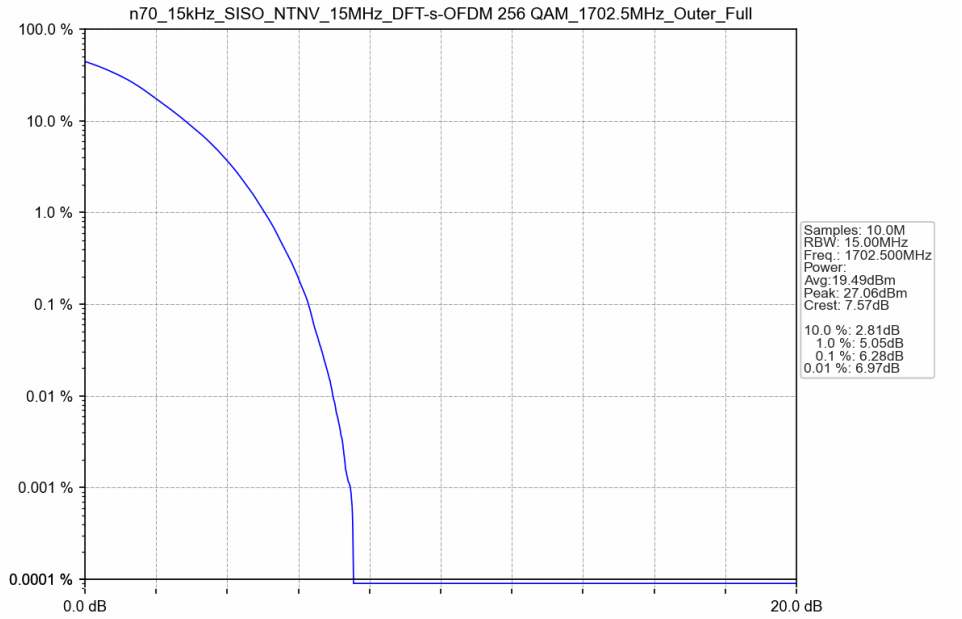
n70_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 64 QAM_1702.5MHz_Outer_Full_Ant2



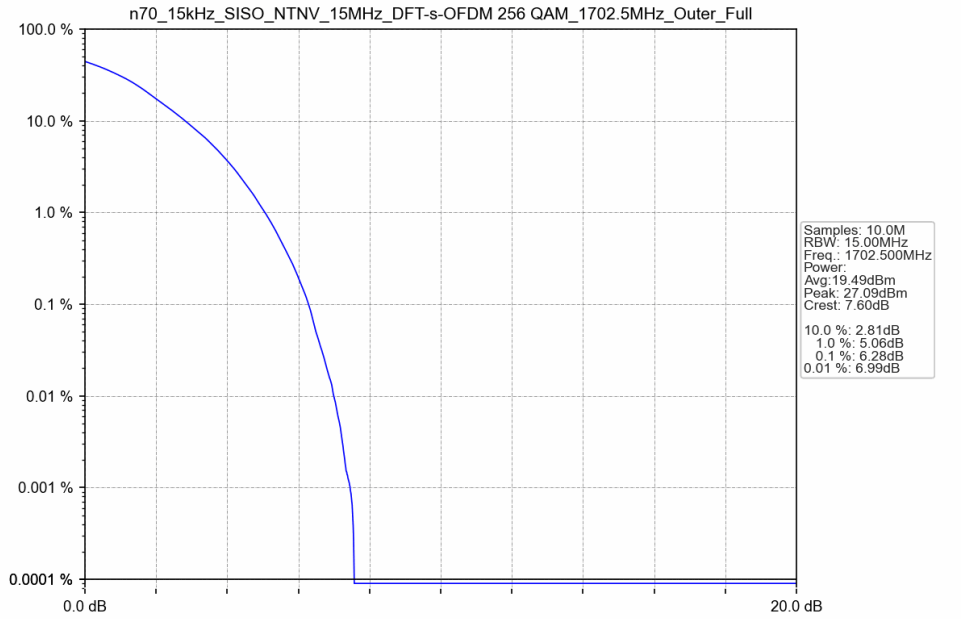
n70_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 64 QAM_1702.5MHz_Outer_Full_Ant2



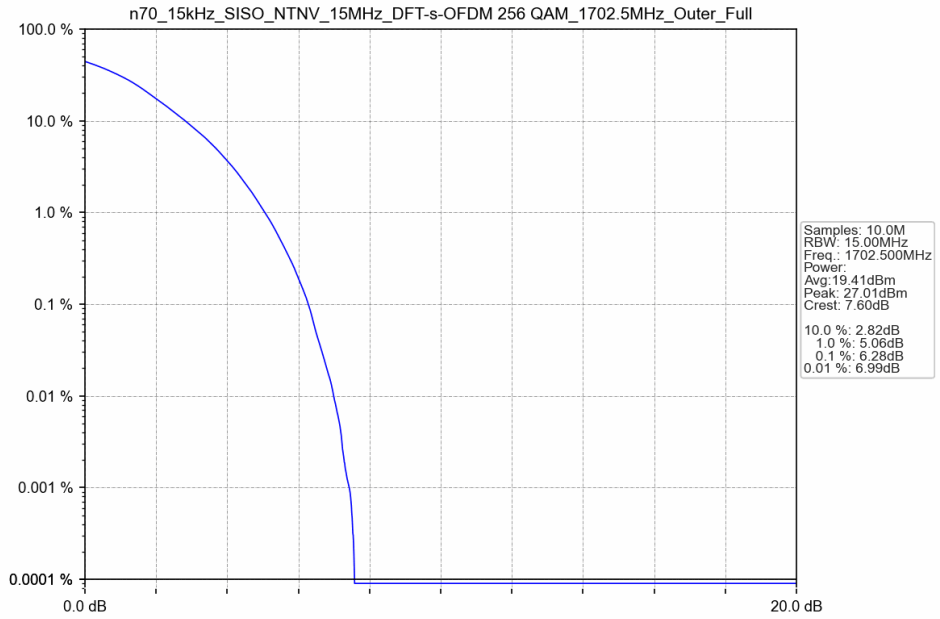
n70_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 256 QAM_1702.5MHz_Outer_Full_Ant2



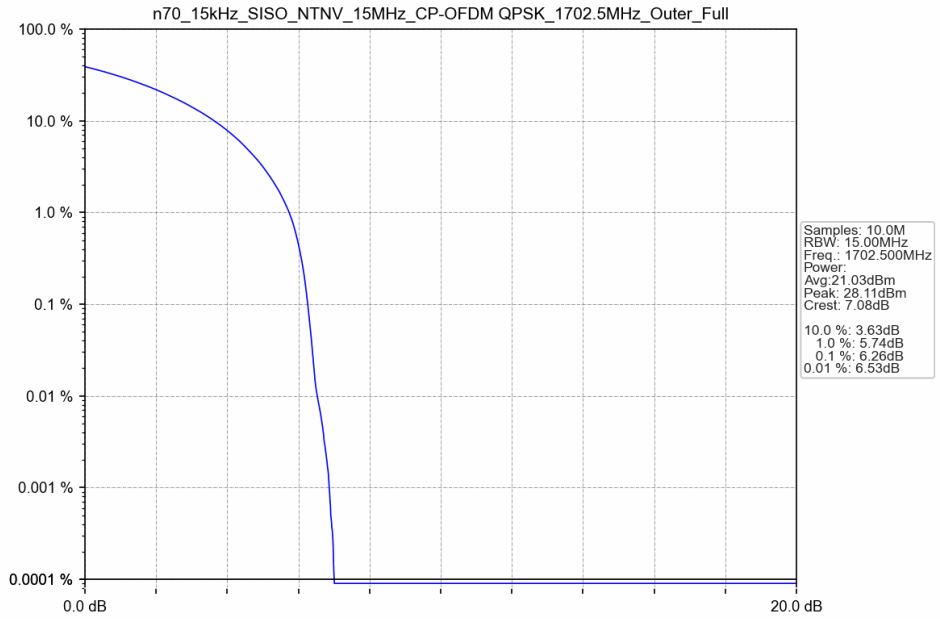
n70_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 256 QAM_1702.5MHz_Outer_Full_Ant2



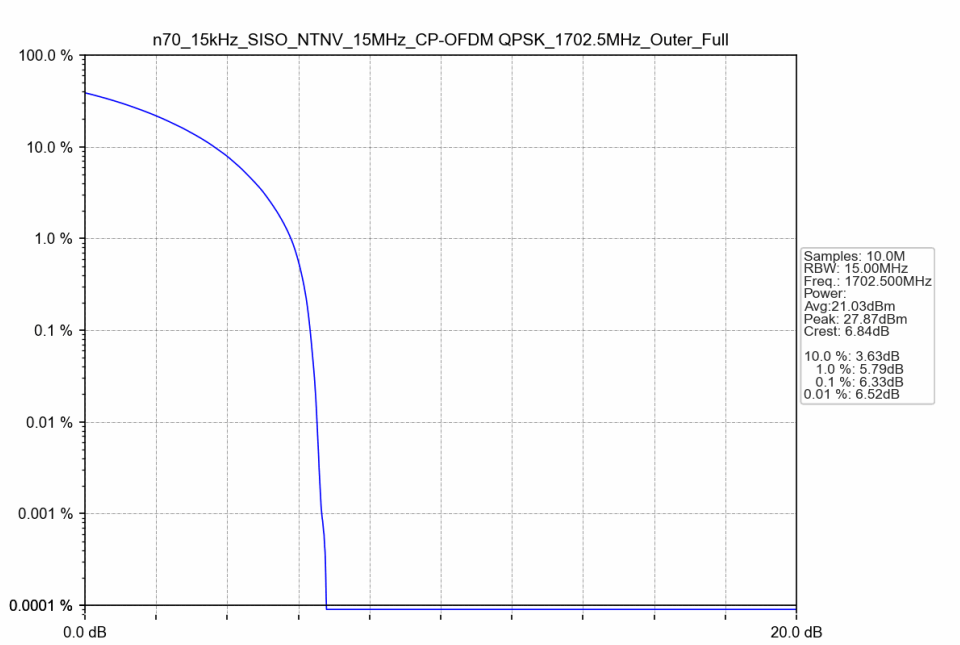
n70_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 256 QAM_1702.5MHz_Outer_Full_Ant2



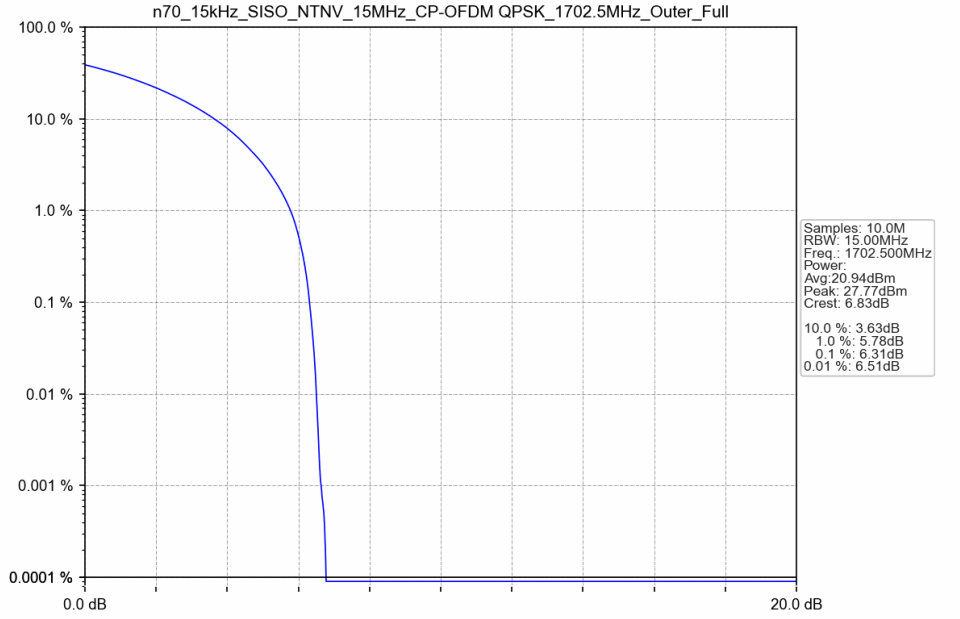
n70_15kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_1702.5MHz_Outer_Full_Ant2



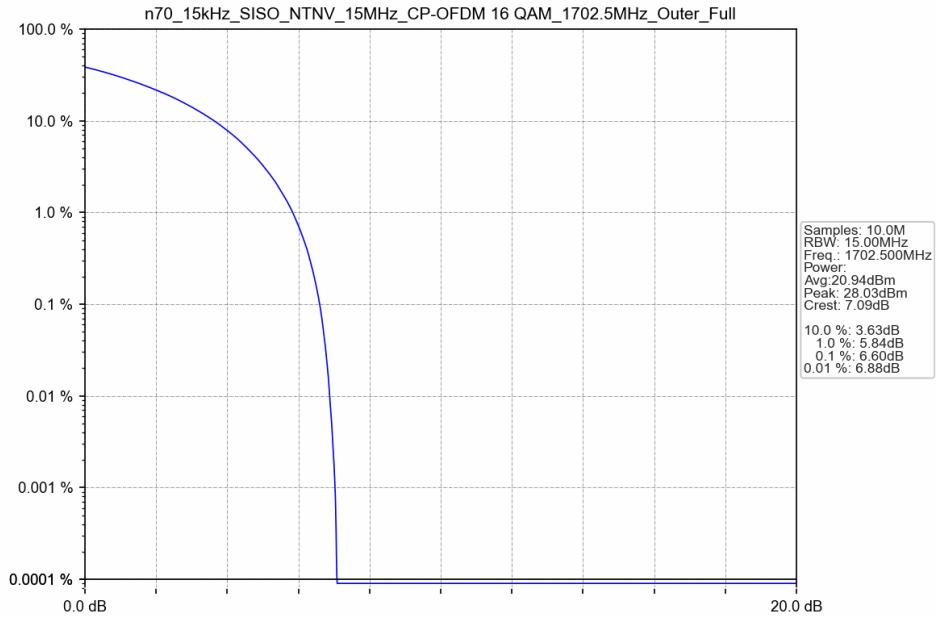
n70_15kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_1702.5MHz_Outer_Full_Ant2



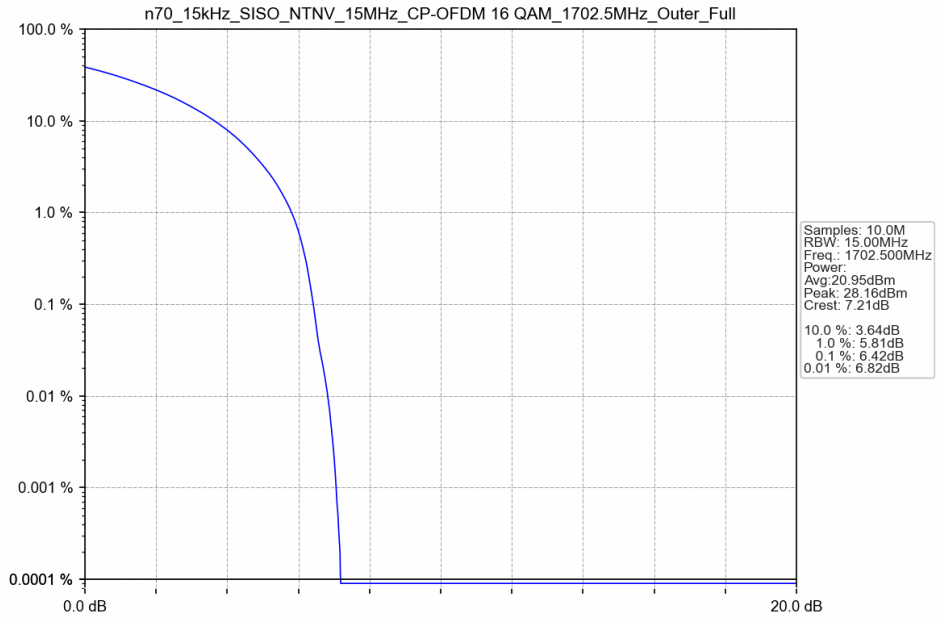
n70_15kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_1702.5MHz_Outer_Full_Ant2



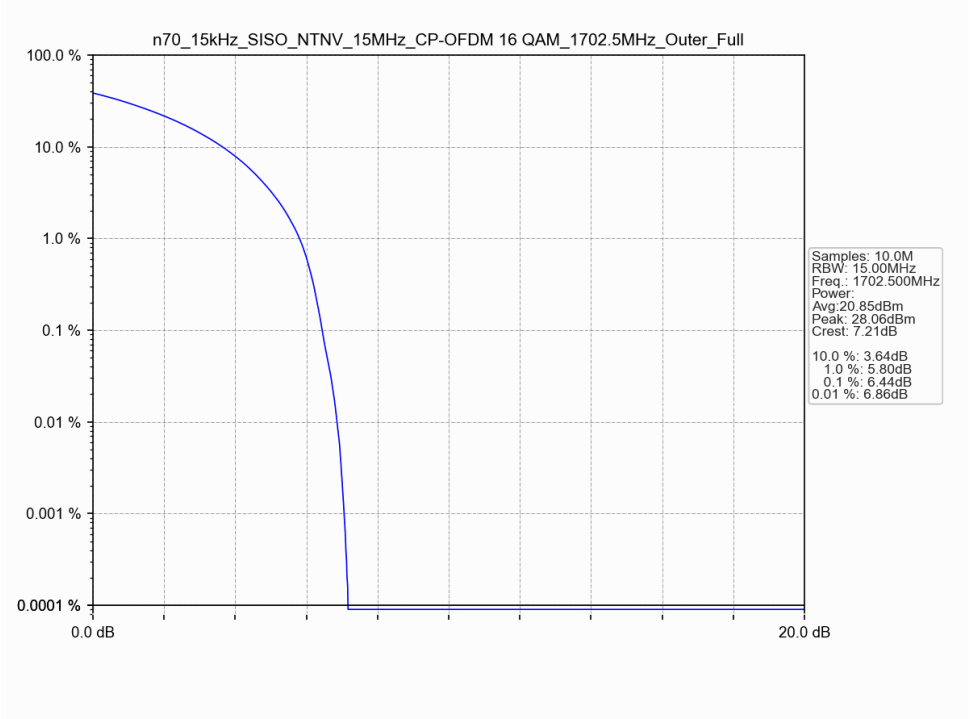
n70_15kHz_SISO_NTNV_15MHz_CP-OFDM 16 QAM_1702.5MHz_Outer_Full_Ant2



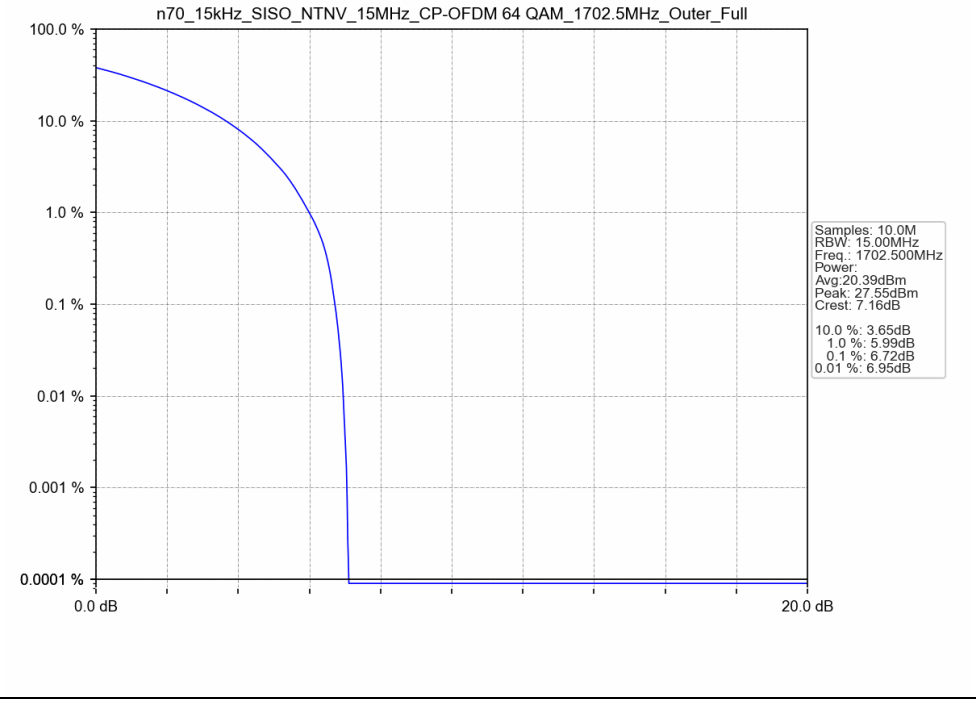
n70_15kHz_SISO_NTNV_15MHz_CP-OFDM 16 QAM_1702.5MHz_Outer_Full_Ant2



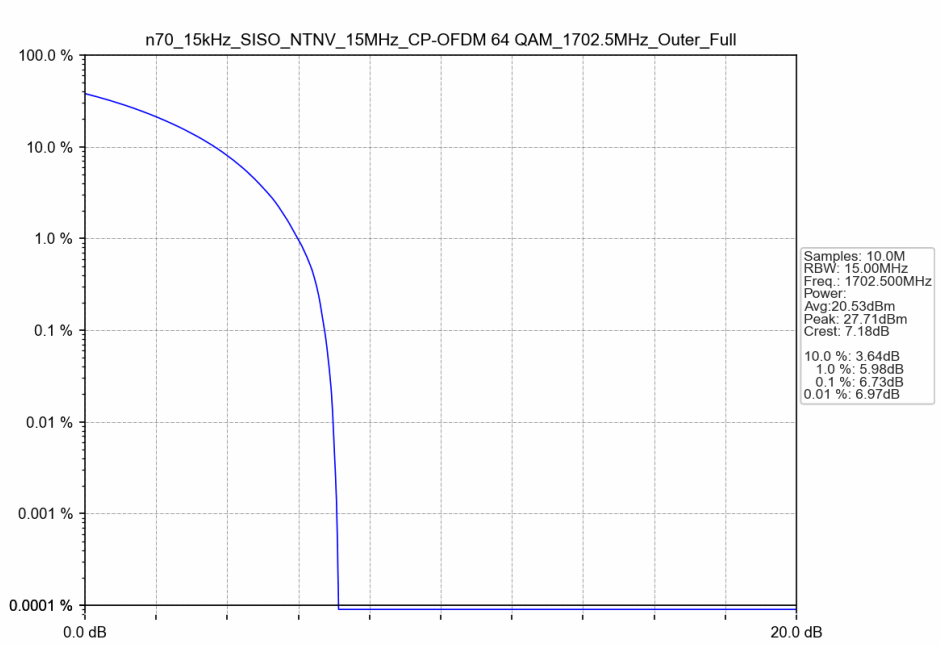
n70_15kHz_SISO_NTNV_15MHz_CP-OFDM 16 QAM_1702.5MHz_Outer_Full_Ant2



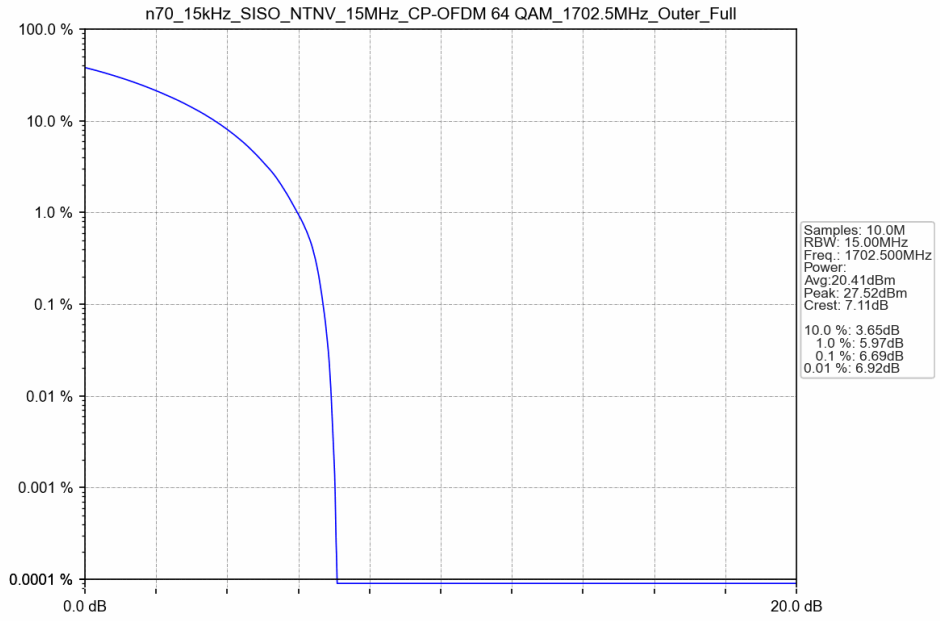
n70_15kHz_SISO_NTNV_15MHz_CP-OFDM 64 QAM_1702.5MHz_Outer_Full_Ant2



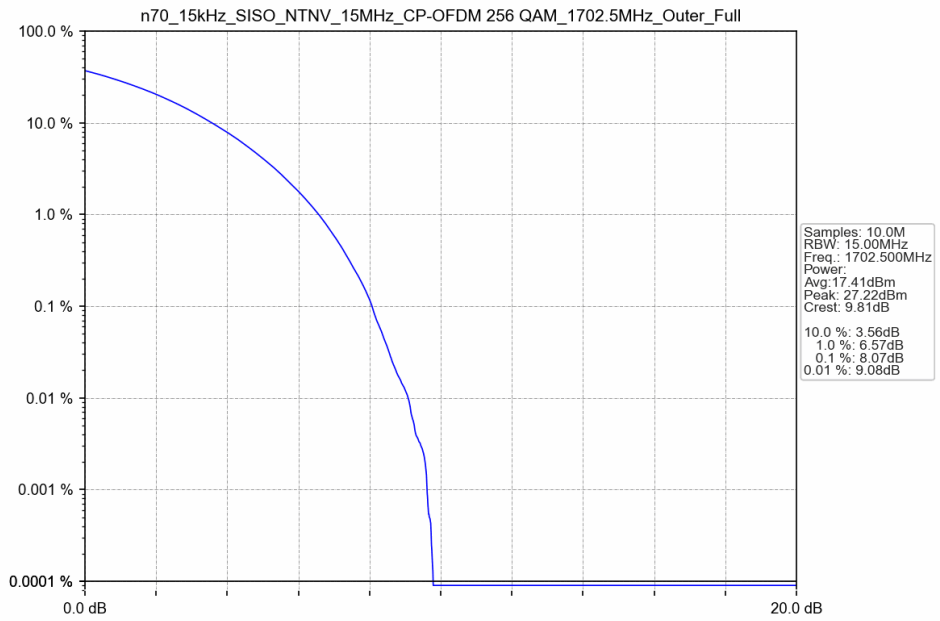
n70_15kHz_SISO_NTNV_15MHz_CP-OFDM 64 QAM_1702.5MHz_Outer_Full_Ant2



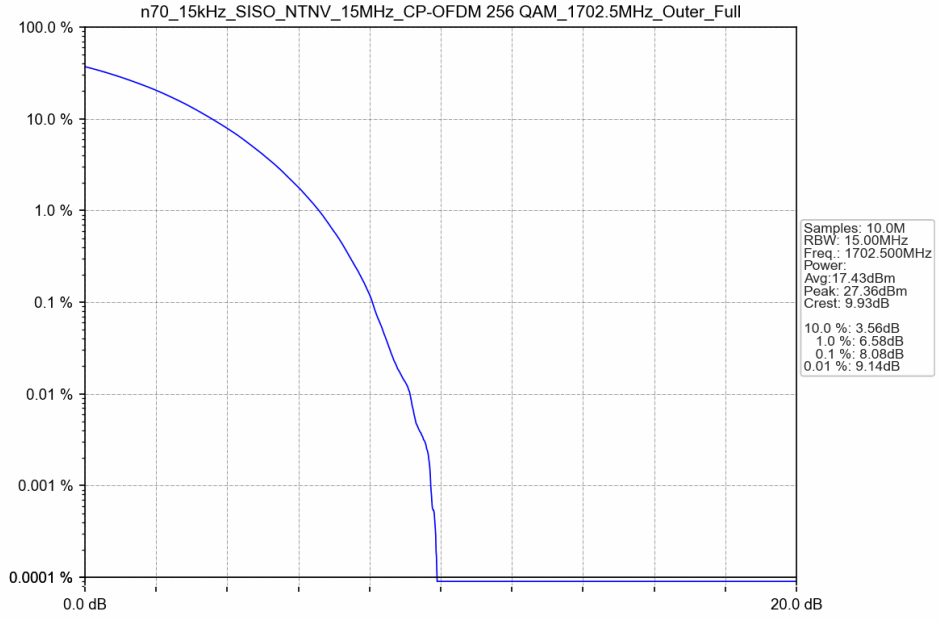
n70_15kHz_SISO_NTNV_15MHz_CP-OFDM 64 QAM_1702.5MHz_Outer_Full_Ant2



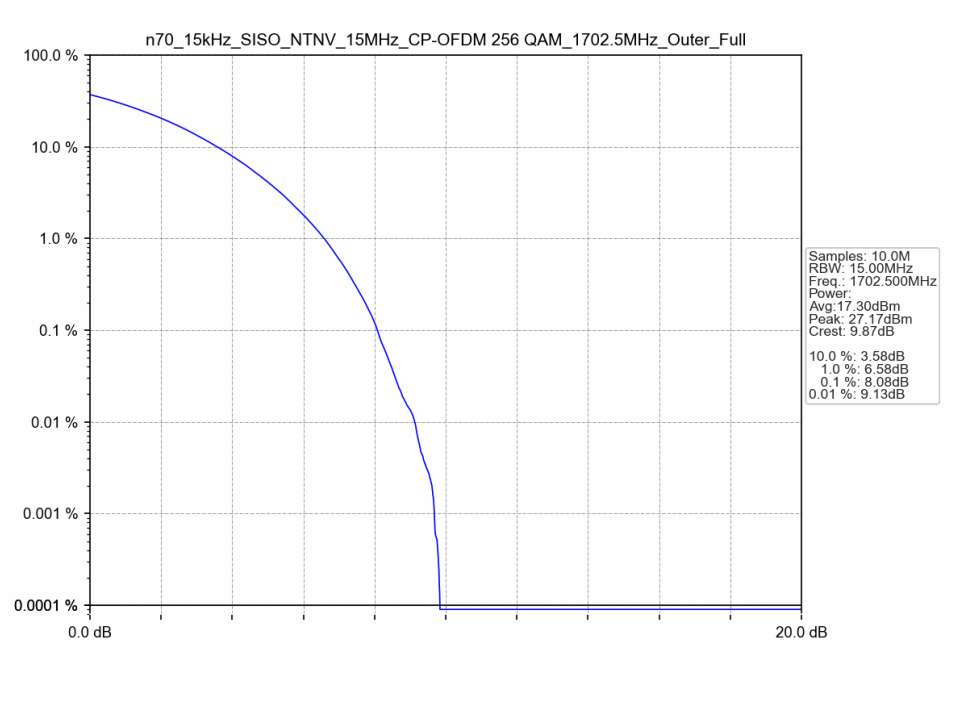
n70_15kHz_SISO_NTNV_15MHz_CP-OFDM 256 QAM_1702.5MHz_Outer_Full_Ant2



n70_15kHz_SISO_NTNV_15MHz_CP-OFDM 256 QAM_1702.5MHz_Outer_Full_Ant2



n70_15kHz_SISO_NTNV_15MHz_CP-OFDM 256 QAM_1702.5MHz_Outer_Full_Ant2



5. Spurious Emission

5.1 Test Result

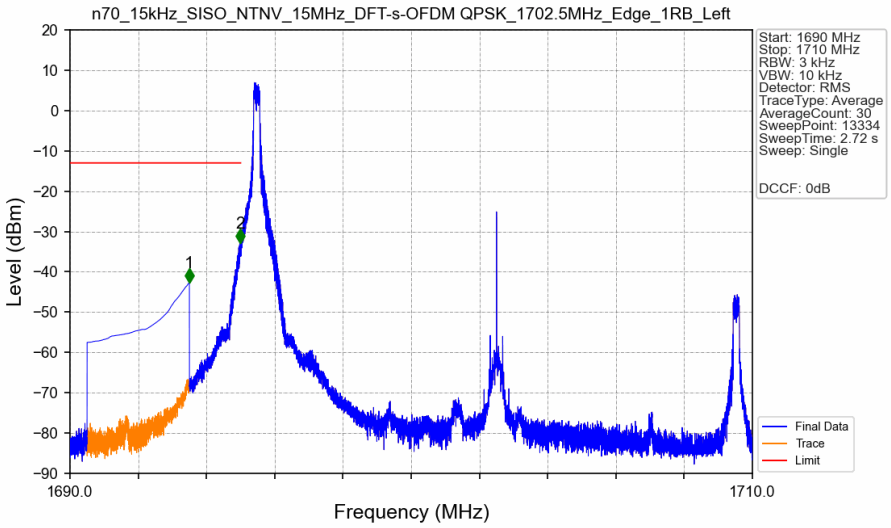
5.1.1 15k_SISO_15MHz_NTNV

5G NR n70 SCS=15kHz SISO 15MHz NTNV							
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission				Verdict
			Ant2	Ant2*	Sum	Limit	
DFT-s-OFDM QPSK	1702.5	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
		Inner_1RB_Left	Refer To Test Graph				Pass
	1702.5	Edge_1RB_Left	Refer To Test Graph				Pass
	1702.5	Edge_1RB_Right	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
		Inner_1RB_Right	Refer To Test Graph				Pass

5.2 Test Graph

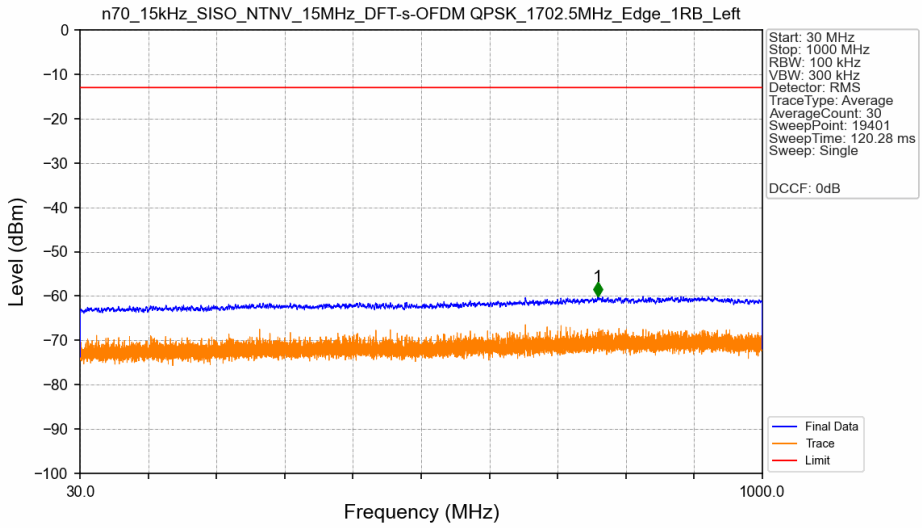
5.2.1 15k_SISO_15MHz_NTNV

n70_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_1702.5MHz_Edge_1RB_Left_Ant2



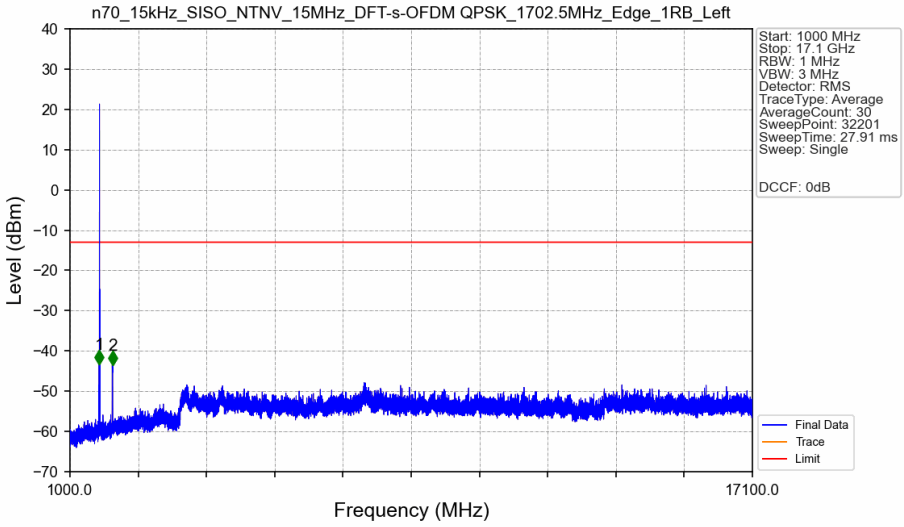
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1690	1694	1	CHP	1	1693.500	-42.60	-13	Pass
1694	1695	0.003	/	2	1694.989	-32.85	-13	Pass
1695	1710	0.003	/	/	/	/	/	/

n70_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_1702.5MHz_Edge_1RB_Left_Ant2



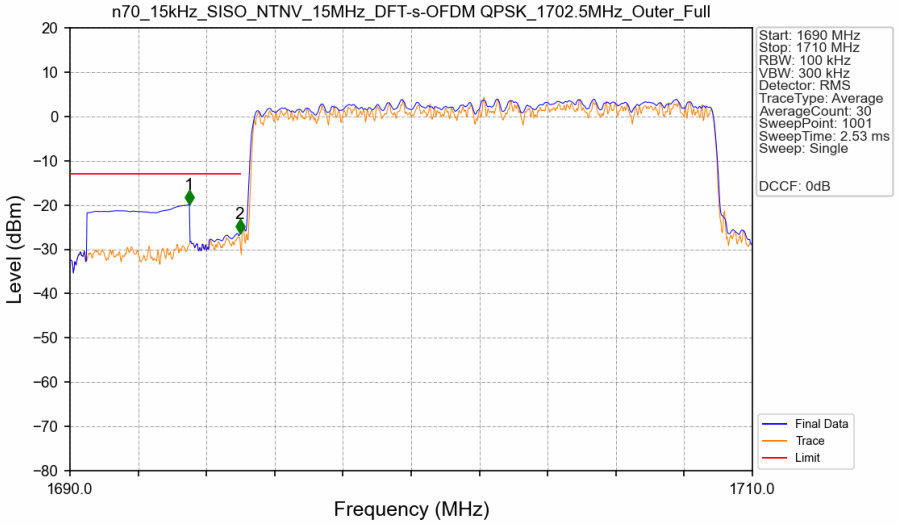
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	1000	1	CHP	1	765.850	-60.13	-13	Pass

n70_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_1702.5MHz_Edge_1RB_Left_Ant2



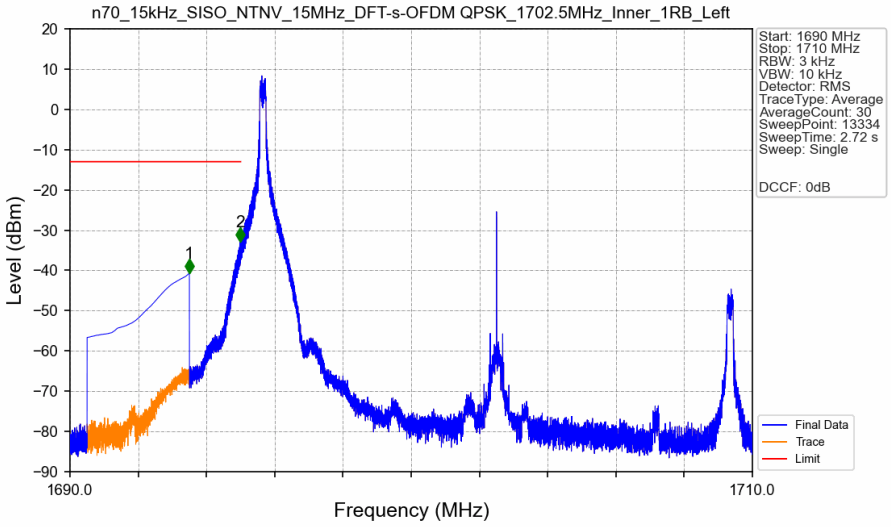
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	1694	1	/	1	1688.500	-43.34	-13	Pass
1694	1715	1	/	/	/	/	/	/
1715	17100	1	/	2	2006.000	-43.47	-13	Pass

n70_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_1702.5MHz_Outer_Full_Ant2



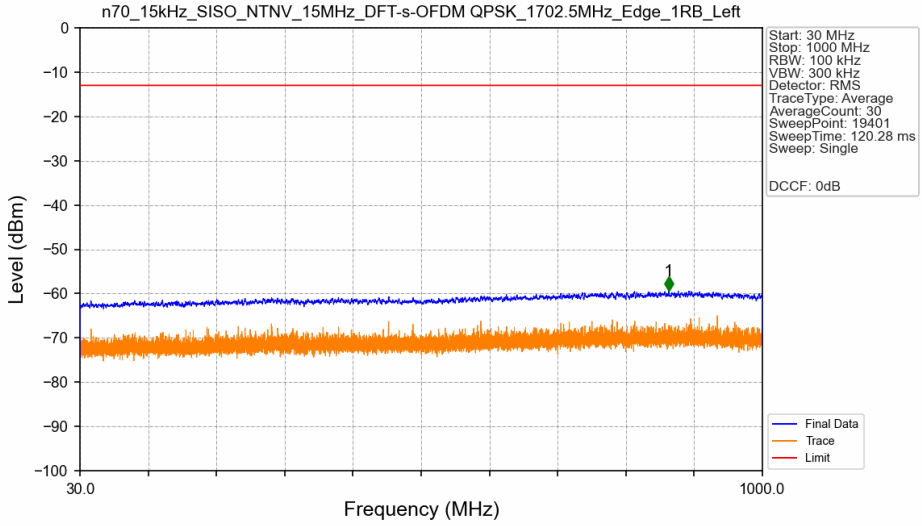
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1690	1694	1	CHP	1	1693.500	-19.92	-13	Pass
1694	1695	0.14827	CHP	2	1694.980	-26.32	-13	Pass
1695	1710	0.14827	CHP	/	/	/	/	/

n70_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_1702.5MHz_Inner_1RB_Left_Ant2



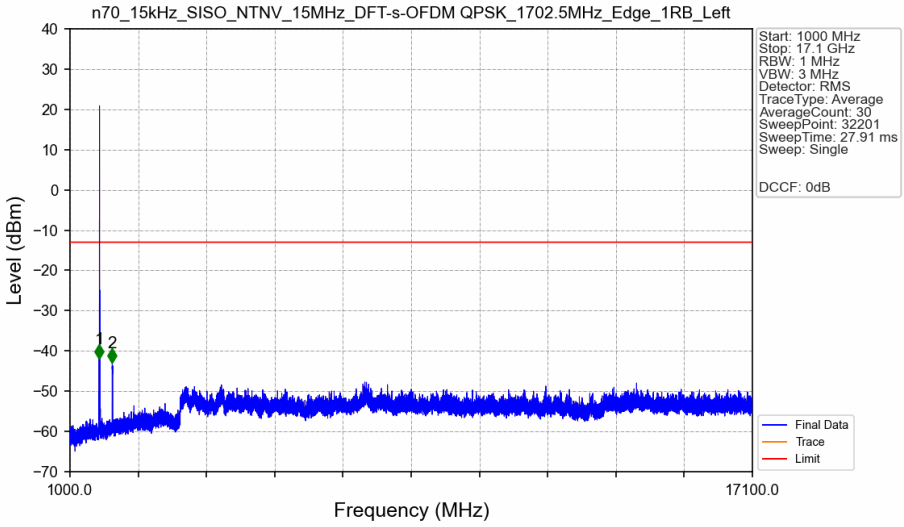
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1690	1694	1	CHP	1	1693.500	-40.62	-13	Pass
1694	1695	0.003	/	2	1694.989	-32.75	-13	Pass
1695	1710	0.003	/	/	/	/	/	/

n70_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_1702.5MHz_Edge_1RB_Left_Ant2



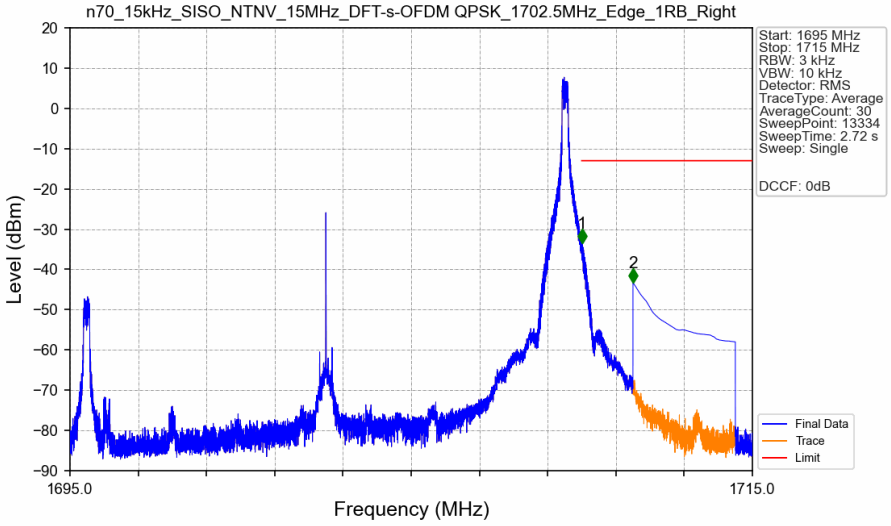
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	1000	1	CHP	1	866.750	-59.34	-13	Pass

n70_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_1702.5MHz_Edge_1RB_Left_Ant2



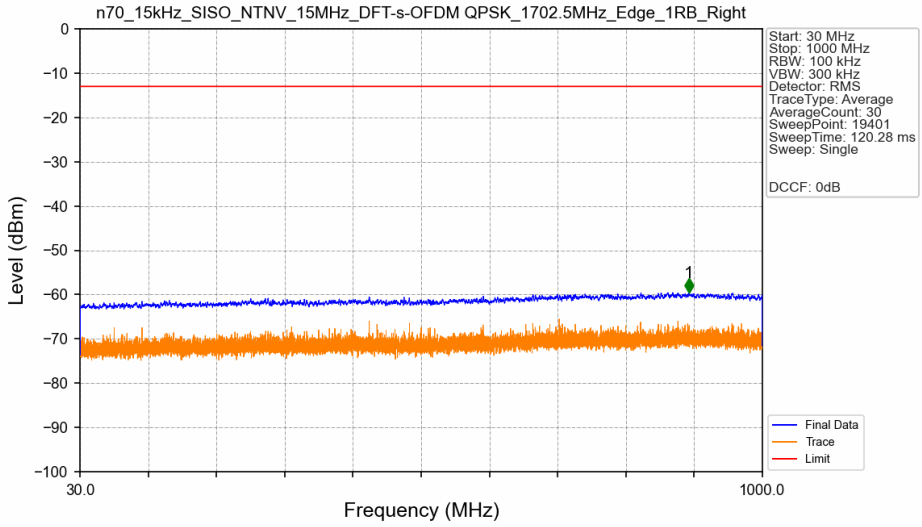
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	1694	1	/	1	1688.500	-41.80	-13	Pass
1694	1715	1	/	/	/	/	/	/
1715	17100	1	/	2	1998.000	-42.96	-13	Pass

n70_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_1702.5MHz_Edge_1RB_Right_Ant2



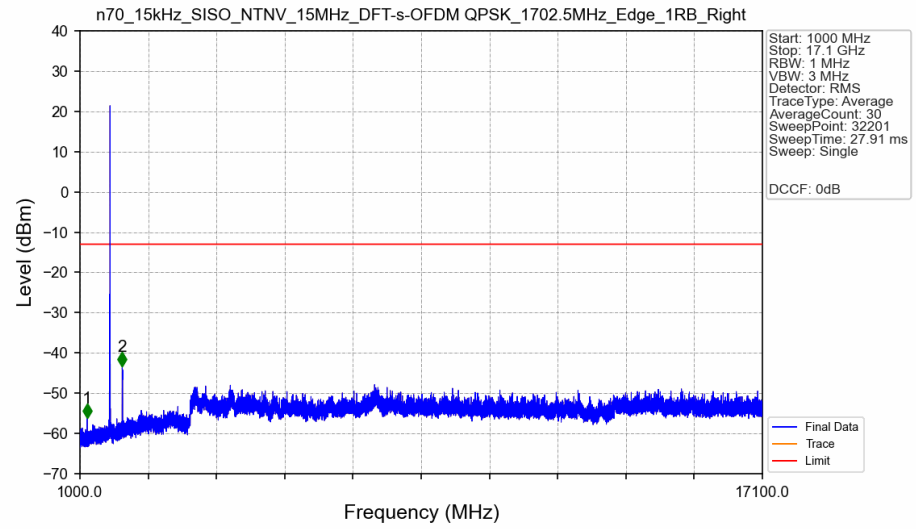
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1695	1710	0.003	/	/	/	/	/	/
1710	1711	0.003	/	1	1710.009	-33.36	-13	Pass
1711	1715	1	CHP	2	1711.500	-43.34	-13	Pass

n70_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_1702.5MHz_Edge_1RB_Right_Ant2



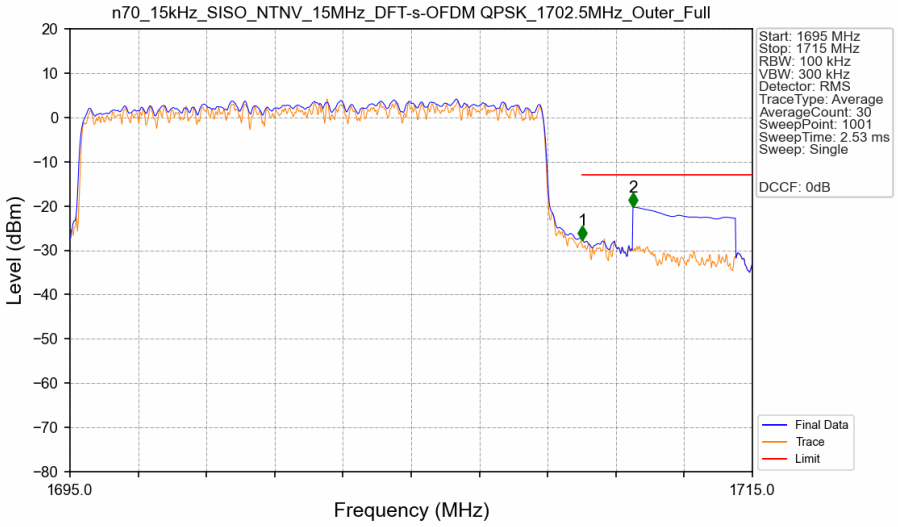
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	1000	1	CHP	1	895.400	-59.49	-13	Pass

n70_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_1702.5MHz_Edge_1RB_Right_Ant2



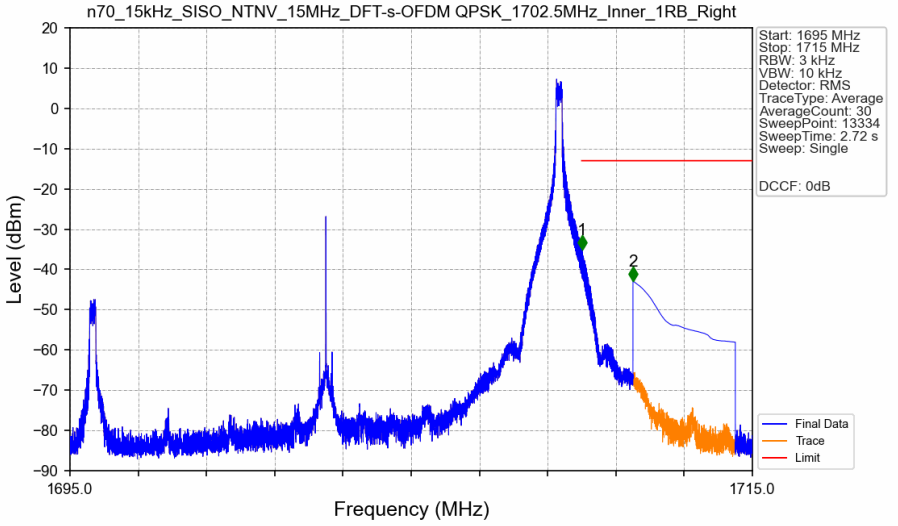
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	1694	1	/	1	1169.000	-56.10	-13	Pass
1694	1715	1	/	/	/	/	/	/
1715	17100	1	/	2	1997.500	-43.22	-13	Pass

n70_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_1702.5MHz_Outer_Full_Ant2



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1695	1710	0.14799	CHP	/	/	/	/	/
1710	1711	0.14799	CHP	1	1710.020	-27.64	-13	Pass
1711	1715	1	CHP	2	1711.500	-20.24	-13	Pass

n70_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_1702.5MHz_Inner_1RB_Right_Ant2



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1695	1710	0.003	/	/	/	/	/	/
1710	1711	0.003	/	1	1710.009	-35.10	-13	Pass
1711	1715	1	CHP	2	1711.500	-42.82	-13	Pass