

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1 Test Result

1.1.1 15_S_5M_NTNV_ERP

5G NR n26a SCS=15kHz SISO 5MHz NTN										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			ERP(dBm)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	816.5	Edge 1RB Left	25.13	/	/	20.18	/	/	<=50	Pass
		Edge 1RB Right	24.97	/	/	20.02	/	/	<=50	Pass
		Outer Full	25.12	/	/	20.17	/	/	<=50	Pass
		Inner Full	25.52	/	/	20.57	/	/	<=50	Pass
		Inner 1RB Left	25.63	/	/	20.68	/	/	<=50	Pass
		Inner 1RB Right	25.50	/	/	20.55	/	/	<=50	Pass
	819	Edge 1RB Left	25.00	/	/	20.05	/	/	<=50	Pass
		Edge 1RB Right	24.82	/	/	19.87	/	/	<=50	Pass
		Outer Full	25.05	/	/	20.11	/	/	<=50	Pass
		Inner Full	25.40	/	/	20.45	/	/	<=50	Pass
		Inner 1RB Left	25.54	/	/	20.59	/	/	<=50	Pass
		Inner 1RB Right	25.27	/	/	20.33	/	/	<=50	Pass
	821.5	Edge 1RB Left	25.00	/	/	20.05	/	/	<=50	Pass
		Edge 1RB Right	24.54	/	/	19.59	/	/	<=50	Pass
		Outer Full	24.86	/	/	19.91	/	/	<=50	Pass
		Inner Full	25.21	/	/	20.26	/	/	<=50	Pass
		Inner 1RB Left	25.48	/	/	20.53	/	/	<=50	Pass
		Inner 1RB Right	25.10	/	/	20.15	/	/	<=50	Pass
DFT-s-OFDM QPSK	816.5	Edge 1RB Left	24.18	/	/	19.23	/	/	<=50	Pass
		Edge 1RB Right	24.09	/	/	19.14	/	/	<=50	Pass
		Outer Full	24.03	/	/	19.08	/	/	<=50	Pass
		Inner Full	24.88	/	/	19.93	/	/	<=50	Pass
		Inner 1RB Left	25.15	/	/	20.20	/	/	<=50	Pass
		Inner 1RB Right	25.06	/	/	20.11	/	/	<=50	Pass
	819	Edge 1RB Left	24.15	/	/	19.20	/	/	<=50	Pass
		Edge 1RB Right	23.97	/	/	19.02	/	/	<=50	Pass
		Outer Full	24.01	/	/	19.06	/	/	<=50	Pass
		Inner Full	24.96	/	/	20.01	/	/	<=50	Pass
		Inner 1RB Left	25.26	/	/	20.31	/	/	<=50	Pass
		Inner 1RB Right	25.04	/	/	20.09	/	/	<=50	Pass
	821.5	Edge 1RB Left	24.08	/	/	19.13	/	/	<=50	Pass
		Edge 1RB Right	24.15	/	/	19.20	/	/	<=50	Pass
		Outer Full	24.05	/	/	19.10	/	/	<=50	Pass
		Inner Full	25.00	/	/	20.05	/	/	<=50	Pass
		Inner 1RB Left	25.20	/	/	20.25	/	/	<=50	Pass
		Inner 1RB Right	25.30	/	/	20.35	/	/	<=50	Pass
DFT-s-OFDM 16 QAM	816.5	Edge 1RB Left	22.99	/	/	18.04	/	/	<=50	Pass
		Edge 1RB Right	22.87	/	/	17.92	/	/	<=50	Pass
		Outer Full	23.03	/	/	18.08	/	/	<=50	Pass
		Inner Full	24.01	/	/	19.06	/	/	<=50	Pass
		Inner 1RB Left	23.99	/	/	19.04	/	/	<=50	Pass
		Inner 1RB Right	23.96	/	/	19.01	/	/	<=50	Pass
	819	Edge 1RB Left	22.89	/	/	17.94	/	/	<=50	Pass
		Edge 1RB Right	22.88	/	/	17.93	/	/	<=50	Pass
		Outer Full	23.02	/	/	18.07	/	/	<=50	Pass
		Inner Full	23.96	/	/	19.01	/	/	<=50	Pass
		Inner 1RB Left	23.95	/	/	19.00	/	/	<=50	Pass
		Inner 1RB Right	24.00	/	/	19.05	/	/	<=50	Pass
	821.5	Edge 1RB Left	22.86	/	/	17.91	/	/	<=50	Pass
		Edge 1RB Right	22.89	/	/	17.94	/	/	<=50	Pass
		Outer Full	23.02	/	/	18.07	/	/	<=50	Pass

		Inner_Full	24.04	/	/	19.09	/	/	<=50	Pass
		Inner_1RB_Left	23.93	/	/	18.98	/	/	<=50	Pass
		Inner_1RB_Right	24.16	/	/	19.21	/	/	<=50	Pass
DFT-s-OFDM 64 QAM	816.5	Edge_1RB_Left	22.70	/	/	17.75	/	/	<=50	Pass
		Edge_1RB_Right	22.48	/	/	17.53	/	/	<=50	Pass
		Outer_Full	22.58	/	/	17.63	/	/	<=50	Pass
		Inner_Full	22.54	/	/	17.59	/	/	<=50	Pass
		Inner_1RB_Left	22.72	/	/	17.77	/	/	<=50	Pass
		Inner_1RB_Right	22.36	/	/	17.41	/	/	<=50	Pass
		Edge_1RB_Left	22.50	/	/	17.56	/	/	<=50	Pass
		Edge_1RB_Right	22.68	/	/	17.74	/	/	<=50	Pass
	819	Outer_Full	22.53	/	/	17.58	/	/	<=50	Pass
		Inner_Full	22.56	/	/	17.61	/	/	<=50	Pass
		Inner_1RB_Left	22.64	/	/	17.69	/	/	<=50	Pass
		Inner_1RB_Right	22.68	/	/	17.73	/	/	<=50	Pass
		Edge_1RB_Left	22.66	/	/	17.71	/	/	<=50	Pass
		Edge_1RB_Right	22.68	/	/	17.73	/	/	<=50	Pass
	821.5	Outer_Full	22.55	/	/	17.60	/	/	<=50	Pass
		Inner_Full	22.58	/	/	17.63	/	/	<=50	Pass
		Inner_1RB_Left	22.69	/	/	17.74	/	/	<=50	Pass
		Inner_1RB_Right	22.73	/	/	17.78	/	/	<=50	Pass
		Edge_1RB_Left	20.55	/	/	15.60	/	/	<=50	Pass
		Edge_1RB_Right	20.48	/	/	15.53	/	/	<=50	Pass
DFT-s-OFDM 256 QAM	816.5	Outer_Full	20.47	/	/	15.52	/	/	<=50	Pass
		Inner_Full	20.45	/	/	15.50	/	/	<=50	Pass
		Inner_1RB_Left	20.53	/	/	15.58	/	/	<=50	Pass
		Inner_1RB_Right	20.47	/	/	15.52	/	/	<=50	Pass
		Edge_1RB_Left	20.50	/	/	15.55	/	/	<=50	Pass
		Edge_1RB_Right	20.54	/	/	15.59	/	/	<=50	Pass
		Outer_Full	20.49	/	/	15.54	/	/	<=50	Pass
		Inner_Full	20.37	/	/	15.42	/	/	<=50	Pass
	819	Inner_1RB_Left	20.55	/	/	15.60	/	/	<=50	Pass
		Inner_1RB_Right	20.55	/	/	15.60	/	/	<=50	Pass
		Edge_1RB_Left	20.55	/	/	15.60	/	/	<=50	Pass
		Edge_1RB_Right	20.59	/	/	15.64	/	/	<=50	Pass
		Outer_Full	20.50	/	/	15.55	/	/	<=50	Pass
		Inner_Full	20.41	/	/	15.46	/	/	<=50	Pass
	821.5	Inner_1RB_Left	20.54	/	/	15.59	/	/	<=50	Pass
		Inner_1RB_Right	20.62	/	/	15.67	/	/	<=50	Pass
		Edge_1RB_Left	21.80	/	/	16.86	/	/	<=50	Pass
		Edge_1RB_Right	21.92	/	/	16.97	/	/	<=50	Pass
		Outer_Full	21.99	/	/	17.04	/	/	<=50	Pass
		Inner_Full	23.47	/	/	18.52	/	/	<=50	Pass
CP-OFDM QPSK	816.5	Inner_1RB_Left	23.37	/	/	18.42	/	/	<=50	Pass
		Inner_1RB_Right	23.42	/	/	18.47	/	/	<=50	Pass
		Edge_1RB_Left	21.85	/	/	16.90	/	/	<=50	Pass
		Edge_1RB_Right	21.98	/	/	17.03	/	/	<=50	Pass
		Outer_Full	22.02	/	/	17.07	/	/	<=50	Pass
		Inner_Full	23.48	/	/	18.53	/	/	<=50	Pass
	819	Inner_1RB_Left	23.38	/	/	18.43	/	/	<=50	Pass
		Inner_1RB_Right	23.45	/	/	18.50	/	/	<=50	Pass
		Edge_1RB_Left	21.84	/	/	16.89	/	/	<=50	Pass
		Edge_1RB_Right	21.93	/	/	16.98	/	/	<=50	Pass
		Outer_Full	21.99	/	/	17.04	/	/	<=50	Pass
		Inner_Full	23.48	/	/	18.53	/	/	<=50	Pass
	821.5	Inner_1RB_Left	23.33	/	/	18.38	/	/	<=50	Pass
		Inner_1RB_Right	23.45	/	/	18.51	/	/	<=50	Pass
		Edge_1RB_Left	21.85	/	/	16.90	/	/	<=50	Pass
		Edge_1RB_Right	21.87	/	/	16.92	/	/	<=50	Pass
		Outer_Full	22.00	/	/	17.05	/	/	<=50	Pass
		Inner_Full	22.98	/	/	18.04	/	/	<=50	Pass
CP-OFDM 16 QAM	816.5	Inner_1RB_Left	22.85	/	/	17.90	/	/	<=50	Pass
		Inner_1RB_Right	22.87	/	/	17.92	/	/	<=50	Pass
	819	Edge_1RB_Left	21.87	/	/	16.92	/	/	<=50	Pass

		Edge_1RB_Right	21.90	/	/	16.95	/	/	<=50	Pass
		Outer_Full	22.01	/	/	17.06	/	/	<=50	Pass
		Inner_Full	23.02	/	/	18.07	/	/	<=50	Pass
		Inner_1RB_Left	22.84	/	/	17.89	/	/	<=50	Pass
		Inner_1RB_Right	22.91	/	/	17.97	/	/	<=50	Pass
	821.5	Edge_1RB_Left	21.83	/	/	16.88	/	/	<=50	Pass
		Edge_1RB_Right	21.94	/	/	16.99	/	/	<=50	Pass
		Outer_Full	22.04	/	/	17.09	/	/	<=50	Pass
		Inner_Full	23.02	/	/	18.07	/	/	<=50	Pass
		Inner_1RB_Left	22.84	/	/	17.89	/	/	<=50	Pass
	Inner_1RB_Right	22.94	/	/	17.99	/	/	<=50	Pass	
CP-OFDM 64 QAM	816.5	Edge_1RB_Left	21.65	/	/	16.70	/	/	<=50	Pass
		Edge_1RB_Right	21.65	/	/	16.70	/	/	<=50	Pass
		Outer_Full	21.53	/	/	16.58	/	/	<=50	Pass
		Inner_Full	21.41	/	/	16.46	/	/	<=50	Pass
		Inner_1RB_Left	21.82	/	/	16.87	/	/	<=50	Pass
		Inner_1RB_Right	21.75	/	/	16.81	/	/	<=50	Pass
	819	Edge_1RB_Left	21.67	/	/	16.72	/	/	<=50	Pass
		Edge_1RB_Right	21.77	/	/	16.82	/	/	<=50	Pass
		Outer_Full	21.57	/	/	16.62	/	/	<=50	Pass
		Inner_Full	21.44	/	/	16.49	/	/	<=50	Pass
		Inner_1RB_Left	21.56	/	/	16.61	/	/	<=50	Pass
		Inner_1RB_Right	21.80	/	/	16.85	/	/	<=50	Pass
	821.5	Edge_1RB_Left	21.74	/	/	16.79	/	/	<=50	Pass
		Edge_1RB_Right	21.86	/	/	16.91	/	/	<=50	Pass
		Outer_Full	21.55	/	/	16.60	/	/	<=50	Pass
		Inner_Full	21.45	/	/	16.50	/	/	<=50	Pass
		Inner_1RB_Left	21.74	/	/	16.79	/	/	<=50	Pass
		Inner_1RB_Right	21.83	/	/	16.88	/	/	<=50	Pass
CP-OFDM 256 QAM	816.5	Edge_1RB_Left	18.56	/	/	13.61	/	/	<=50	Pass
		Edge_1RB_Right	18.60	/	/	13.65	/	/	<=50	Pass
		Outer_Full	18.49	/	/	13.54	/	/	<=50	Pass
		Inner_Full	18.36	/	/	13.41	/	/	<=50	Pass
		Inner_1RB_Left	18.59	/	/	13.64	/	/	<=50	Pass
		Inner_1RB_Right	18.53	/	/	13.58	/	/	<=50	Pass
	819	Edge_1RB_Left	18.65	/	/	13.70	/	/	<=50	Pass
		Edge_1RB_Right	18.56	/	/	13.61	/	/	<=50	Pass
		Outer_Full	18.43	/	/	13.48	/	/	<=50	Pass
		Inner_Full	18.33	/	/	13.38	/	/	<=50	Pass
		Inner_1RB_Left	18.54	/	/	13.59	/	/	<=50	Pass
		Inner_1RB_Right	18.62	/	/	13.68	/	/	<=50	Pass
	821.5	Edge_1RB_Left	18.55	/	/	13.60	/	/	<=50	Pass
		Edge_1RB_Right	18.64	/	/	13.69	/	/	<=50	Pass
		Outer_Full	18.49	/	/	13.54	/	/	<=50	Pass
		Inner_Full	18.37	/	/	13.42	/	/	<=50	Pass
		Inner_1RB_Left	18.55	/	/	13.60	/	/	<=50	Pass
		Inner_1RB_Right	18.66	/	/	13.71	/	/	<=50	Pass
Note1: Antenna Gain: Ant1: -2.80dBi; Note2: ERP=Conducted Power+Antenna Gain-2.15										

1.1.2 15_S_10M_NTNV_ERP

5G NR n26a SCS=15kHz SISO 10MHz NTN										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			ERP(dBm)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	819	Edge_1RB_Left	25.19	/	/	20.24	/	/	<=50	Pass
		Edge_1RB_Right	24.61	/	/	19.66	/	/	<=50	Pass
		Outer_Full	25.06	/	/	20.11	/	/	<=50	Pass
		Inner_Full	25.44	/	/	20.49	/	/	<=50	Pass
		Inner_1RB_Left	25.70	/	/	20.75	/	/	<=50	Pass
		Inner_1RB_Right	25.06	/	/	20.11	/	/	<=50	Pass
DFT-s-OFDM QPSK	819	Edge_1RB_Left	24.31	/	/	19.36	/	/	<=50	Pass

		Edge_1RB_Right	24.29	/	/	19.34	/	/	<=50	Pass
		Outer_Full	24.07	/	/	19.12	/	/	<=50	Pass
		Inner_Full	24.96	/	/	20.01	/	/	<=50	Pass
		Inner_1RB_Left	25.26	/	/	20.31	/	/	<=50	Pass
		Inner_1RB_Right	25.27	/	/	20.32	/	/	<=50	Pass
DFT-s-OFDM 16 QAM	819	Edge_1RB_Left	23.01	/	/	18.06	/	/	<=50	Pass
		Edge_1RB_Right	22.95	/	/	18.01	/	/	<=50	Pass
		Outer_Full	23.08	/	/	18.13	/	/	<=50	Pass
		Inner_Full	24.04	/	/	19.09	/	/	<=50	Pass
		Inner_1RB_Left	24.08	/	/	19.13	/	/	<=50	Pass
		Inner_1RB_Right	24.19	/	/	19.24	/	/	<=50	Pass
DFT-s-OFDM 64 QAM	819	Edge_1RB_Left	22.75	/	/	17.80	/	/	<=50	Pass
		Edge_1RB_Right	22.68	/	/	17.73	/	/	<=50	Pass
		Outer_Full	22.57	/	/	17.62	/	/	<=50	Pass
		Inner_Full	22.59	/	/	17.64	/	/	<=50	Pass
		Inner_1RB_Left	22.82	/	/	17.87	/	/	<=50	Pass
		Inner_1RB_Right	22.83	/	/	17.88	/	/	<=50	Pass
DFT-s-OFDM 256 QAM	819	Edge_1RB_Left	20.68	/	/	15.73	/	/	<=50	Pass
		Edge_1RB_Right	20.67	/	/	15.72	/	/	<=50	Pass
		Outer_Full	20.56	/	/	15.61	/	/	<=50	Pass
		Inner_Full	20.46	/	/	15.51	/	/	<=50	Pass
		Inner_1RB_Left	20.70	/	/	15.75	/	/	<=50	Pass
		Inner_1RB_Right	20.72	/	/	15.77	/	/	<=50	Pass
CP-OFDM QPSK	819	Edge_1RB_Left	22.00	/	/	17.05	/	/	<=50	Pass
		Edge_1RB_Right	22.10	/	/	17.15	/	/	<=50	Pass
		Outer_Full	22.04	/	/	17.09	/	/	<=50	Pass
		Inner_Full	23.52	/	/	18.57	/	/	<=50	Pass
		Inner_1RB_Left	23.49	/	/	18.54	/	/	<=50	Pass
		Inner_1RB_Right	23.55	/	/	18.60	/	/	<=50	Pass
CP-OFDM 16 QAM	819	Edge_1RB_Left	21.64	/	/	16.69	/	/	<=50	Pass
		Edge_1RB_Right	22.02	/	/	17.07	/	/	<=50	Pass
		Outer_Full	21.98	/	/	17.03	/	/	<=50	Pass
		Inner_Full	22.94	/	/	17.99	/	/	<=50	Pass
		Inner_1RB_Left	22.98	/	/	18.03	/	/	<=50	Pass
		Inner_1RB_Right	23.14	/	/	18.19	/	/	<=50	Pass
CP-OFDM 64 QAM	819	Edge_1RB_Left	21.90	/	/	16.95	/	/	<=50	Pass
		Edge_1RB_Right	21.90	/	/	16.95	/	/	<=50	Pass
		Outer_Full	21.52	/	/	16.57	/	/	<=50	Pass
		Inner_Full	21.47	/	/	16.52	/	/	<=50	Pass
		Inner_1RB_Left	21.95	/	/	17.00	/	/	<=50	Pass
		Inner_1RB_Right	21.90	/	/	16.95	/	/	<=50	Pass
CP-OFDM 256 QAM	819	Edge_1RB_Left	18.68	/	/	13.73	/	/	<=50	Pass
		Edge_1RB_Right	18.71	/	/	13.76	/	/	<=50	Pass
		Outer_Full	18.52	/	/	13.57	/	/	<=50	Pass
		Inner_Full	18.37	/	/	13.42	/	/	<=50	Pass
		Inner_1RB_Left	18.74	/	/	13.79	/	/	<=50	Pass
		Inner_1RB_Right	18.73	/	/	13.78	/	/	<=50	Pass
Note1: Antenna Gain: Ant1: -2.80dBi; Note2: ERP=Conducted Power+Antenna Gain-2.15										

2. Frequency Stability

2.1 Test Result

2.1.1 15_S_10M

5G NR n26a 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 QPSK	819	Outer_Full	20	LV	280.62	0.3426	>=-2.5 & <=2.5	Pass
				HV	-147.77	-0.1804	>=-2.5 & <=2.5	Pass

			-30	NV	347.12	0.4238	>=-2.5 & <=2.5	Pass
			-20	NV	-572.86	-0.6995	>=-2.5 & <=2.5	Pass
			-10	NV	-127.55	-0.1557	>=-2.5 & <=2.5	Pass
			0	NV	236.28	0.2885	>=-2.5 & <=2.5	Pass
			10	NV	-161.41	-0.1971	>=-2.5 & <=2.5	Pass
			20	NV	-149.73	-0.1828	>=-2.5 & <=2.5	Pass
			30	NV	789.08	0.9635	>=-2.5 & <=2.5	Pass
			40	NV	-510.89	-0.6238	>=-2.5 & <=2.5	Pass
			50	NV	321.09	0.3921	>=-2.5 & <=2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 15_S_5M_NTNV

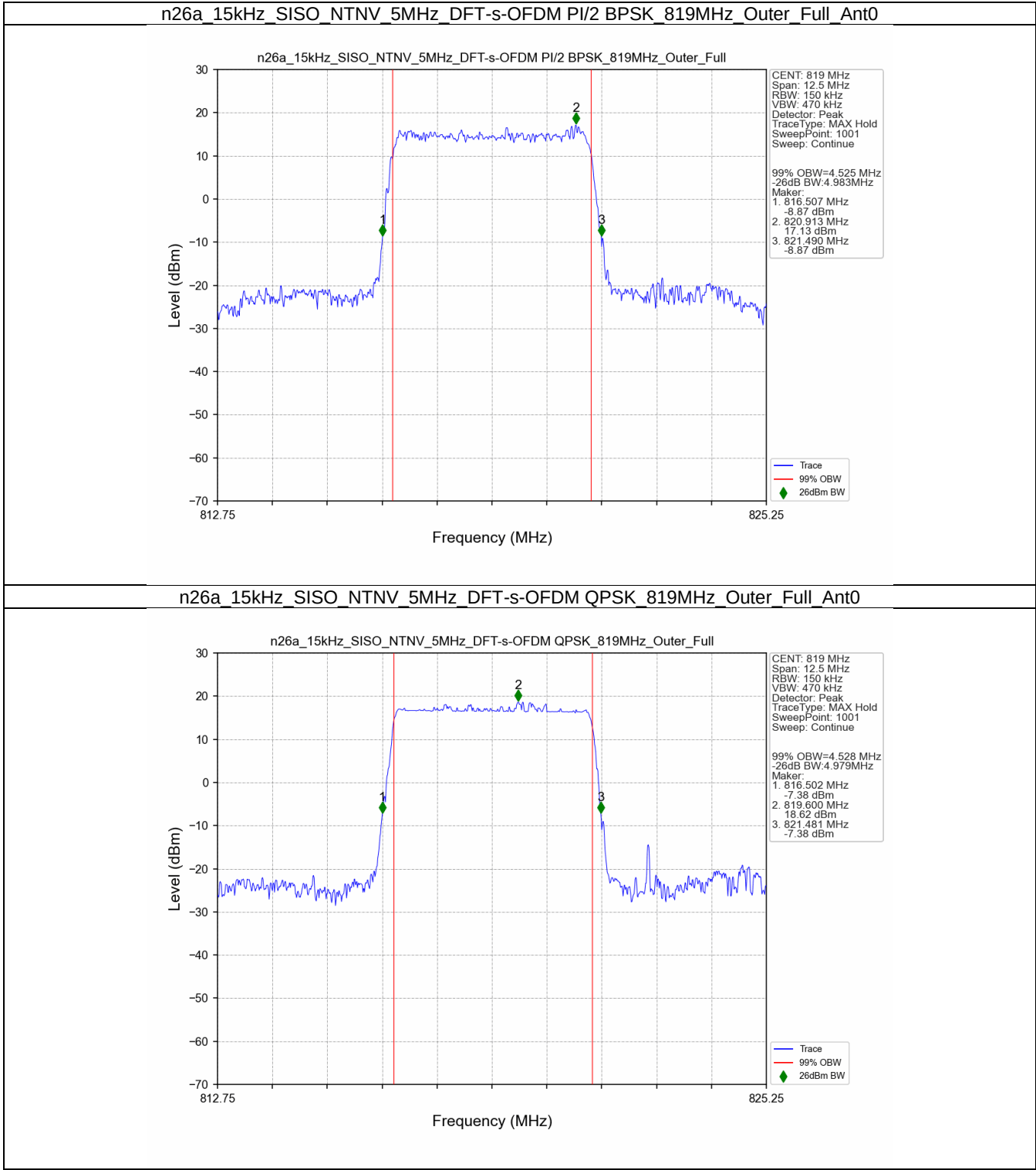
5G NR n26a SCS=15kHz SISO 5MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	819	Outer_Full	4.53	4.98	/	Pass
DFT-s-OFDM QPSK	819	Outer_Full	4.53	4.98	/	Pass
DFT-s-OFDM 16 QAM	819	Outer_Full	4.55	4.99	/	Pass
DFT-s-OFDM 64 QAM	819	Outer_Full	4.57	5.79	/	Pass
DFT-s-OFDM 256 QAM	819	Outer_Full	4.55	4.99	/	Pass
CP-OFDM QPSK	819	Outer_Full	4.52	4.96	/	Pass
CP-OFDM 16 QAM	819	Outer_Full	4.52	4.93	/	Pass
CP-OFDM 64 QAM	819	Outer_Full	4.51	4.97	/	Pass
CP-OFDM 256 QAM	819	Outer_Full	4.53	5.00	/	Pass

3.1.2 15_S_10M_NTNV

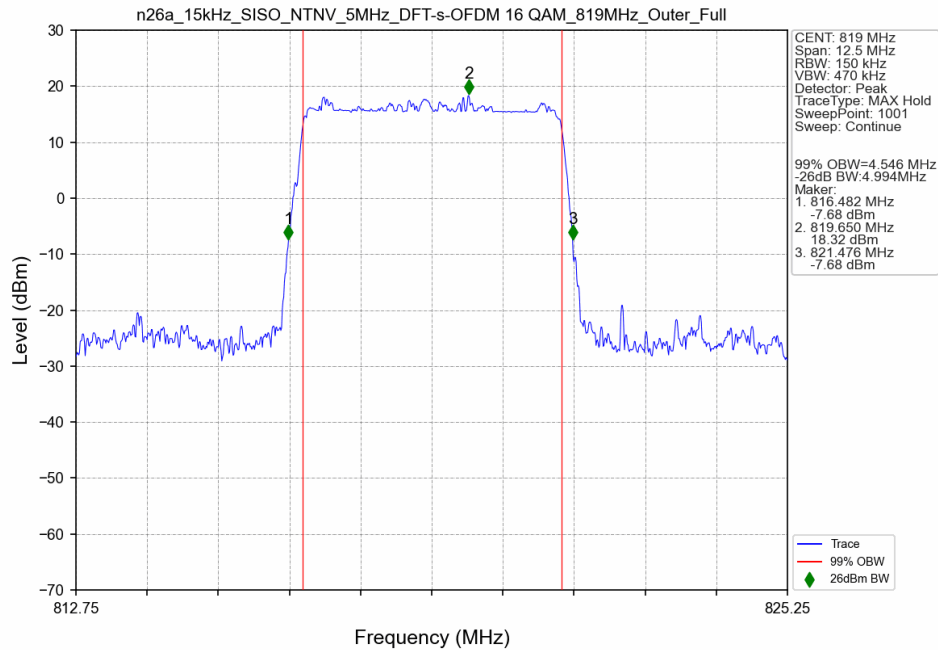
5G NR n26a SCS=15kHz SISO 10MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	819	Outer_Full	9.05	9.68	/	Pass
DFT-s-OFDM QPSK	819	Outer_Full	9.05	9.68	/	Pass
DFT-s-OFDM 16 QAM	819	Outer_Full	9.03	9.70	/	Pass
DFT-s-OFDM 64 QAM	819	Outer_Full	9.07	9.70	/	Pass
DFT-s-OFDM 256 QAM	819	Outer_Full	9.03	9.70	/	Pass
CP-OFDM QPSK	819	Outer_Full	9.37	10.04	/	Pass
CP-OFDM 16 QAM	819	Outer_Full	9.40	10.49	/	Pass
CP-OFDM 64 QAM	819	Outer_Full	9.36	10.05	/	Pass
CP-OFDM 256 QAM	819	Outer_Full	9.36	10.06	/	Pass

3.2 Test Graph

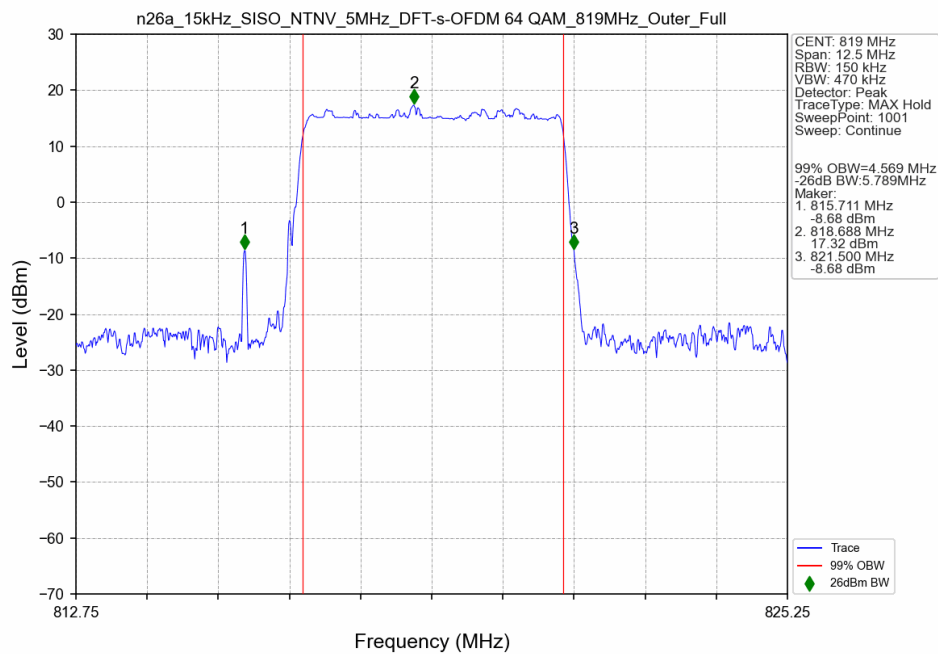
3.2.1 15_S_5M_NTNV



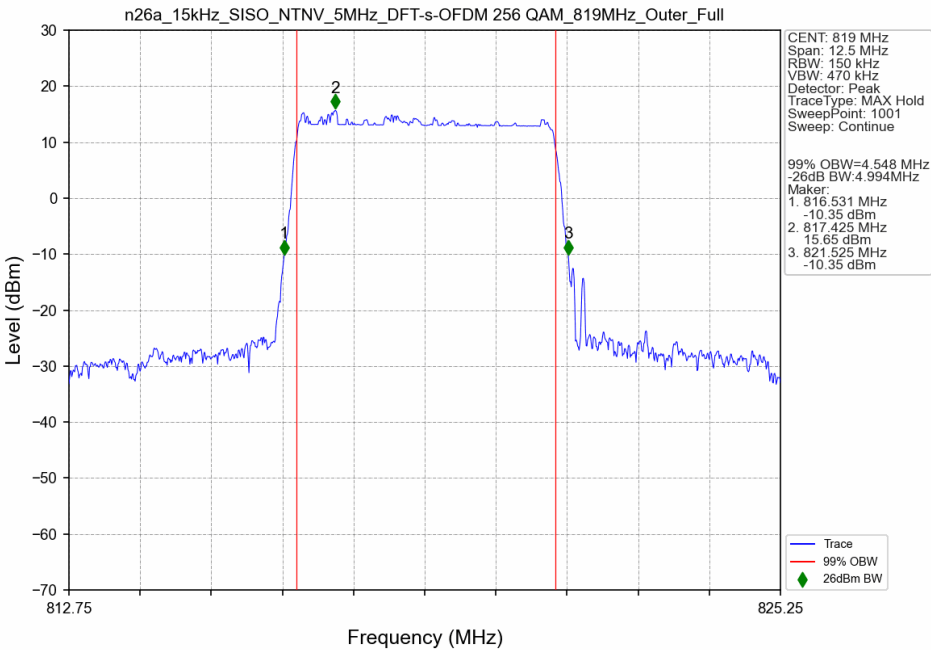
n26a_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM 16 QAM 819MHz_Outer_Full_Ant0



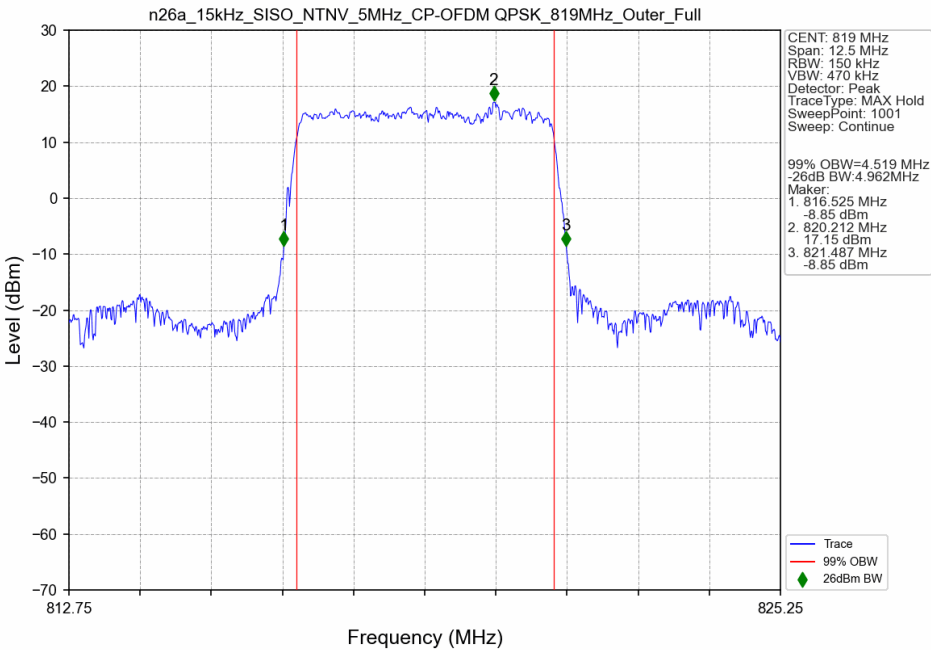
n26a_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM 64 QAM 819MHz_Outer_Full_Ant0



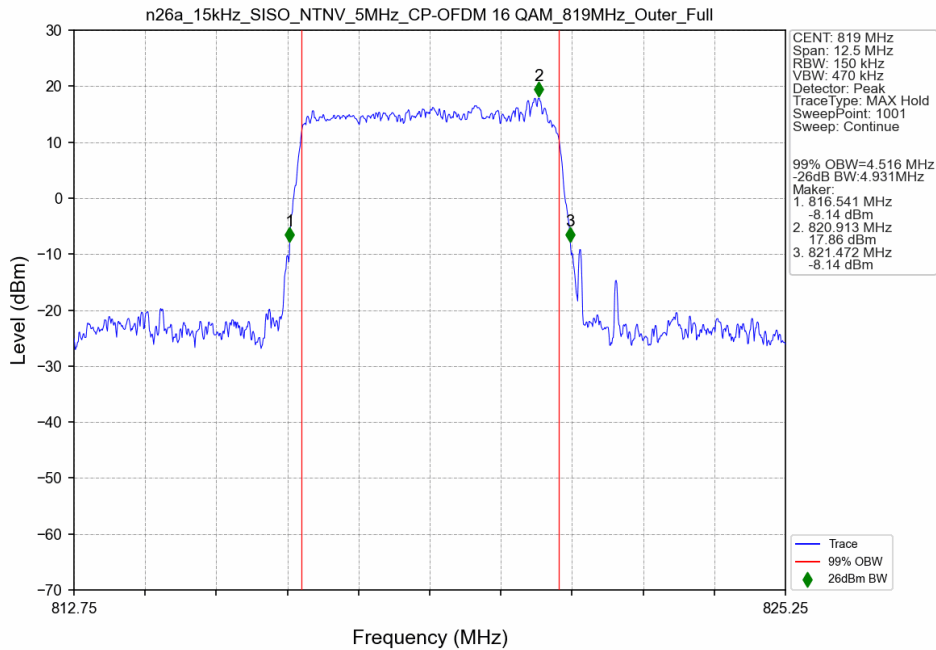
n26a_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_256_QAM_819MHz_Outer_Full_Ant0



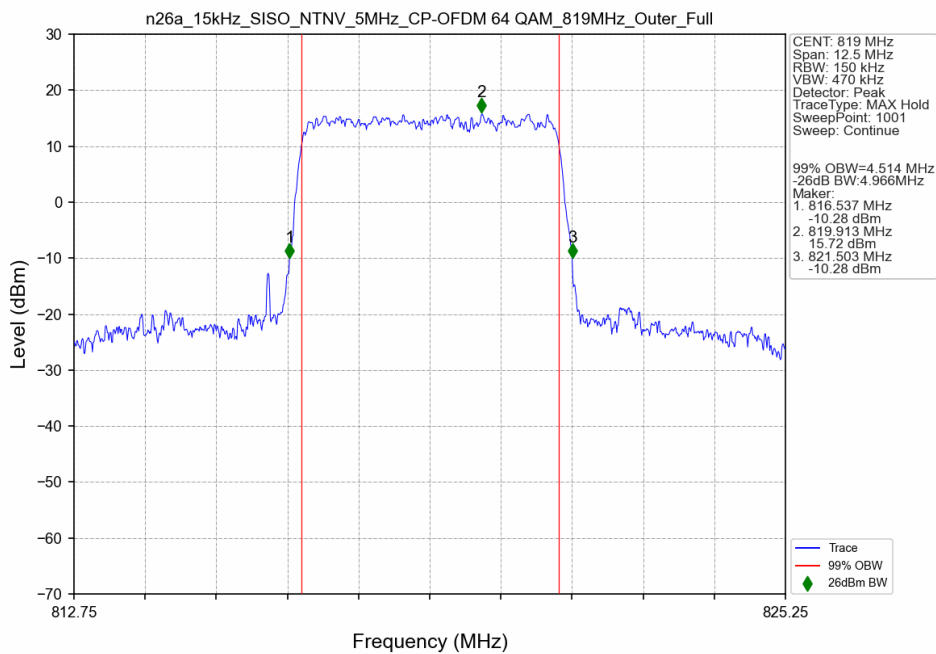
n26a_15kHz_SISO_NTNV_5MHz_CP-OFDM_QPSK_819MHz_Outer_Full_Ant0

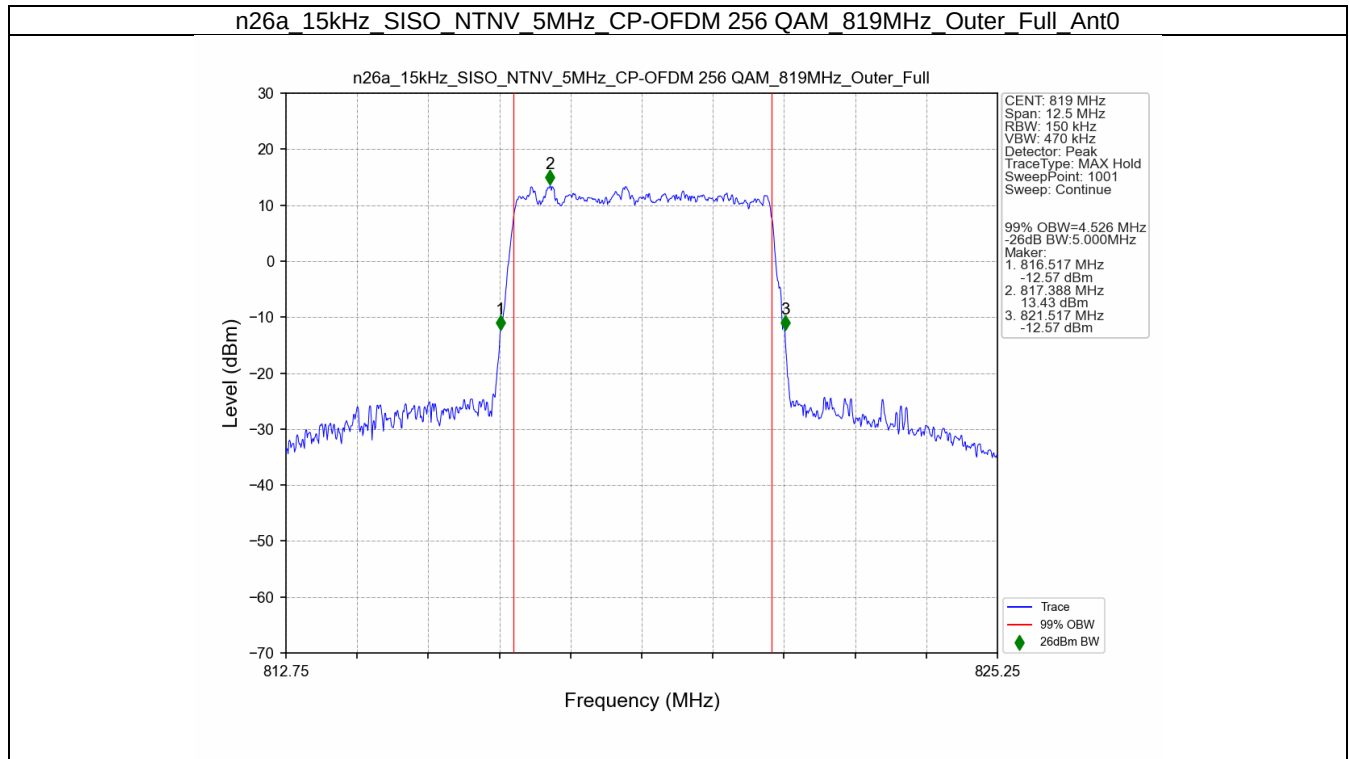


n26a_15kHz_SISO_NTNV_5MHz_CP-OFDM 16 QAM 819MHz_Outer_Full_Ant0

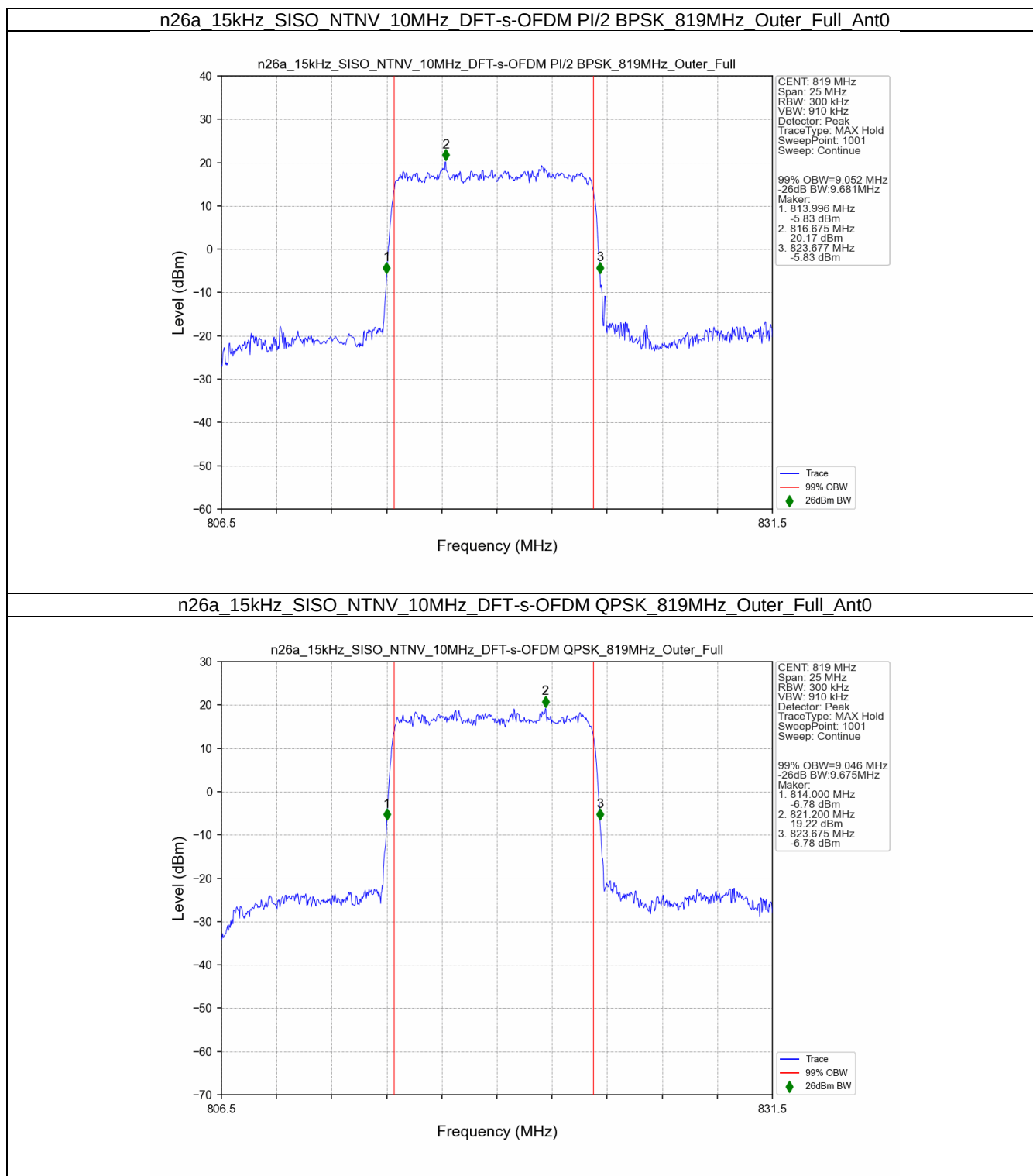


n26a_15kHz_SISO_NTNV_5MHz_CP-OFDM 64 QAM 819MHz_Outer_Full_Ant0

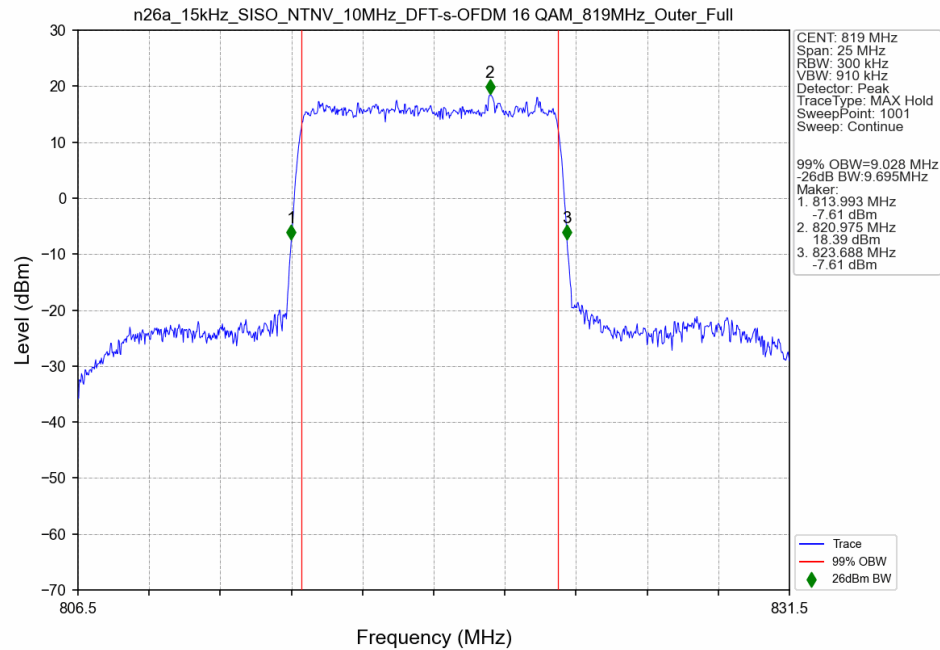




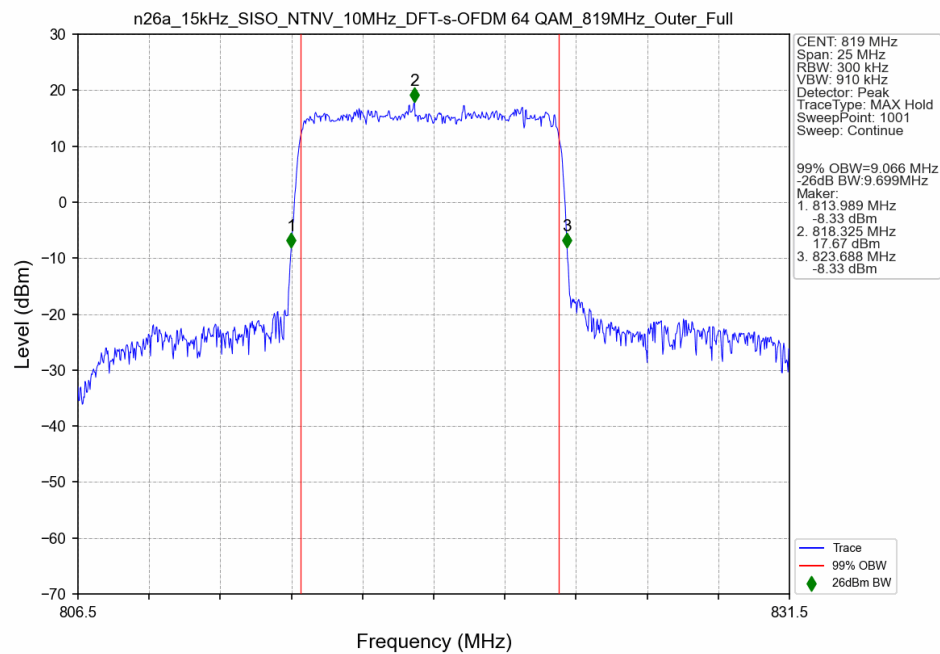
3.2.2 15_S_10M_NTNV



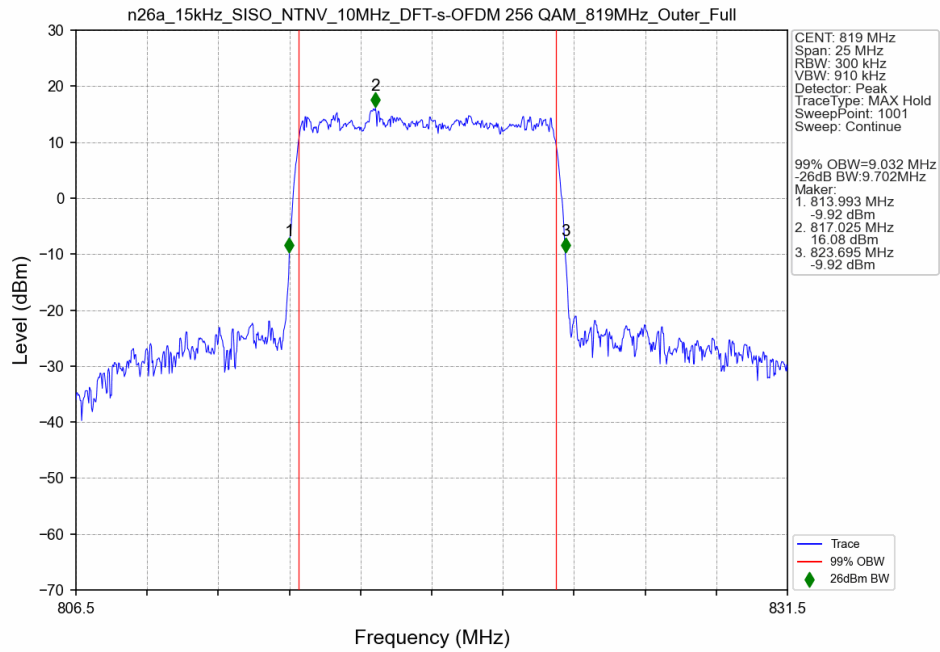
n26a_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 16 QAM_819MHz_Outer_Full_Ant0



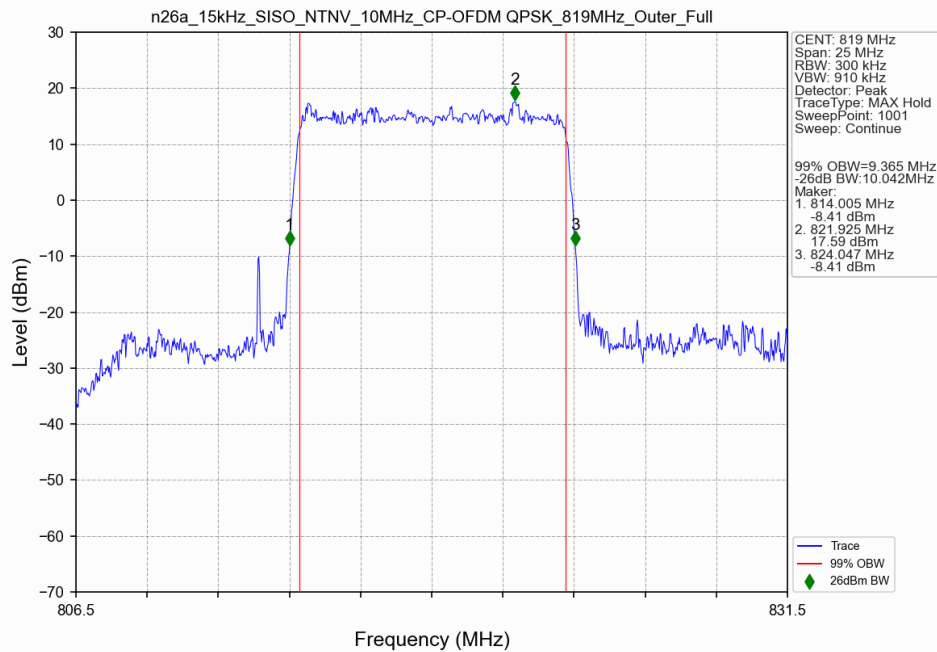
n26a_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 64 QAM_819MHz_Outer_Full_Ant0



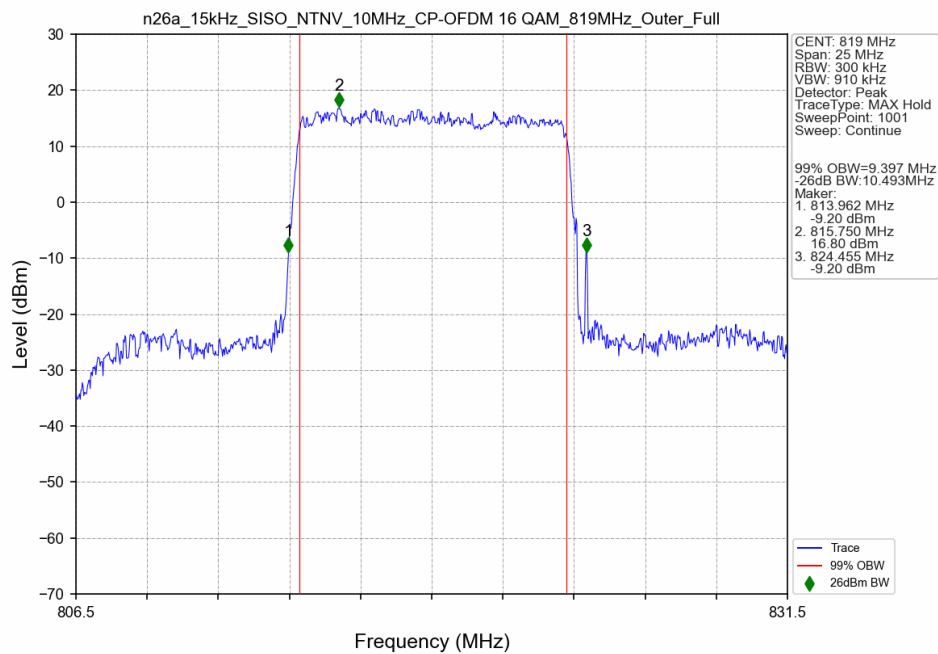
n26a_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 256 QAM_819MHz_Outer_Full_Ant0



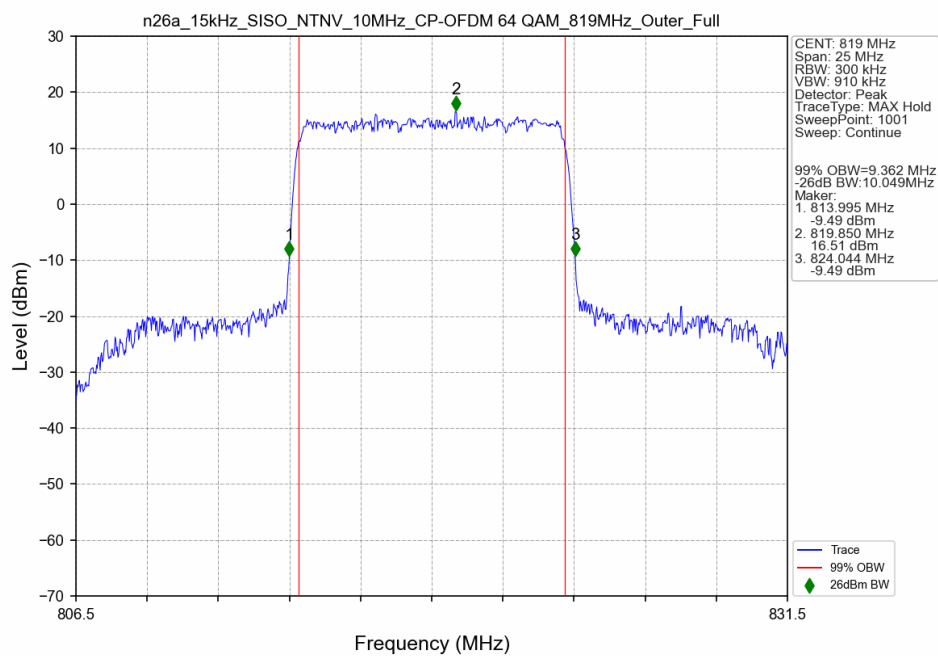
n26a_15kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_819MHz_Outer_Full_Ant0

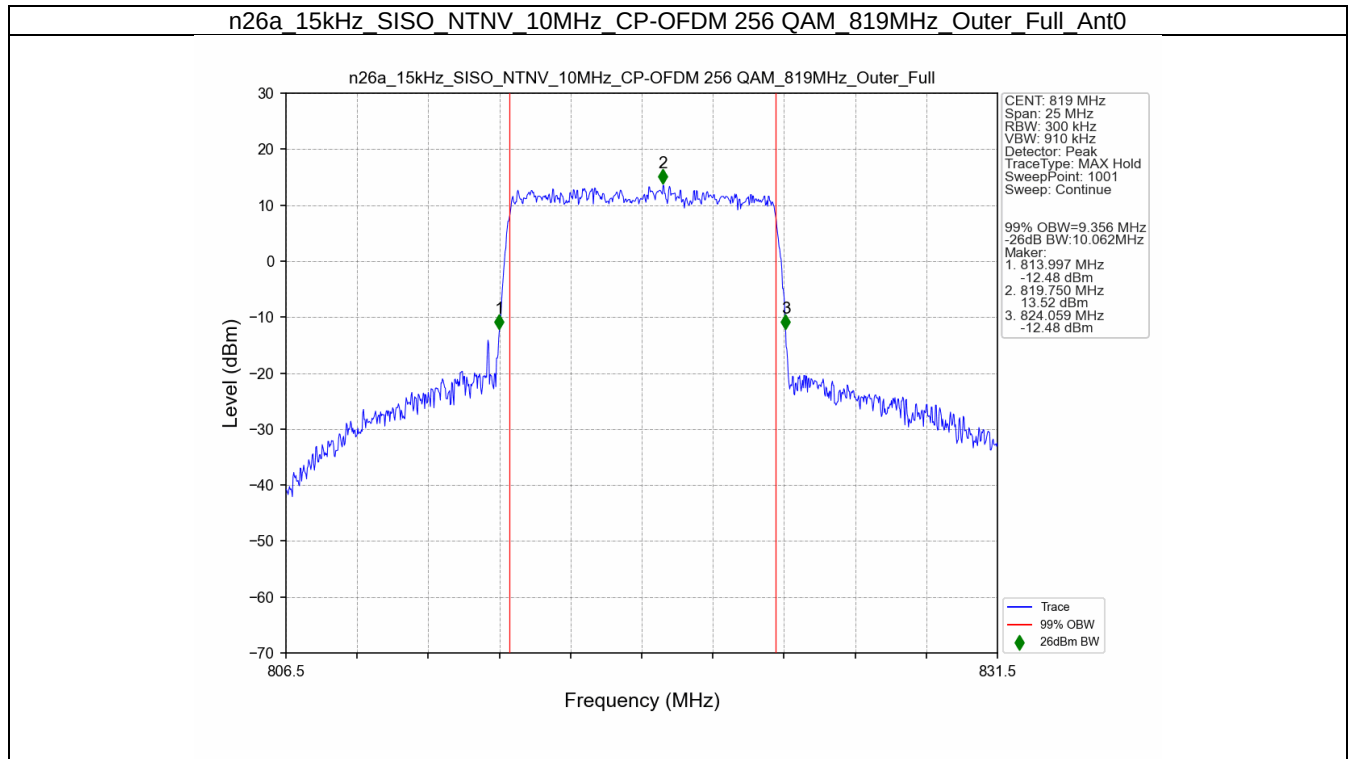


n26a_15kHz_SISO_NTNV_10MHz_CP-OFDM 16 QAM 819MHz_Outer_Full_Ant0



n26a_15kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM 819MHz_Outer_Full_Ant0





4. Peak-Average Ratio

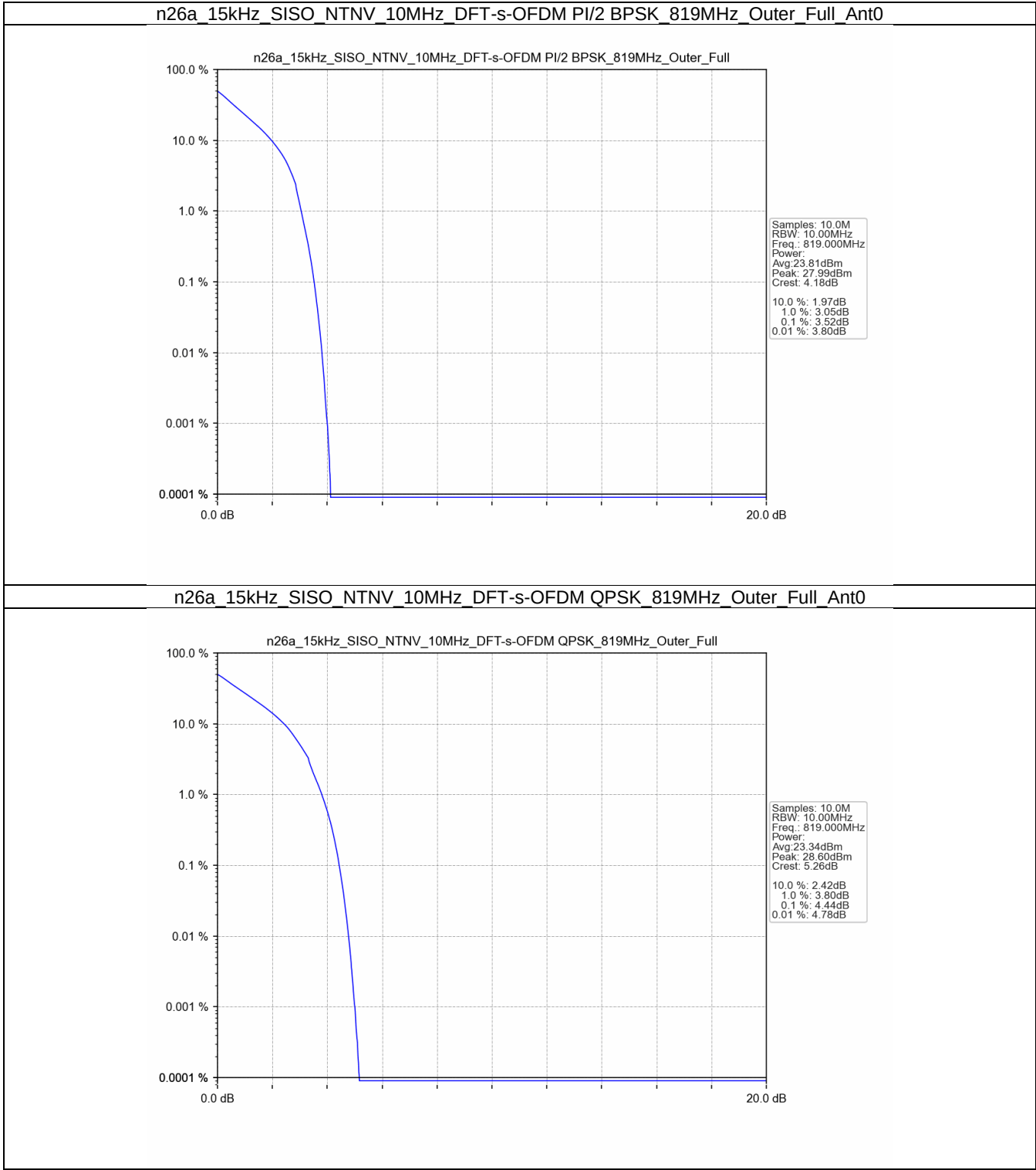
4.1 Test Result

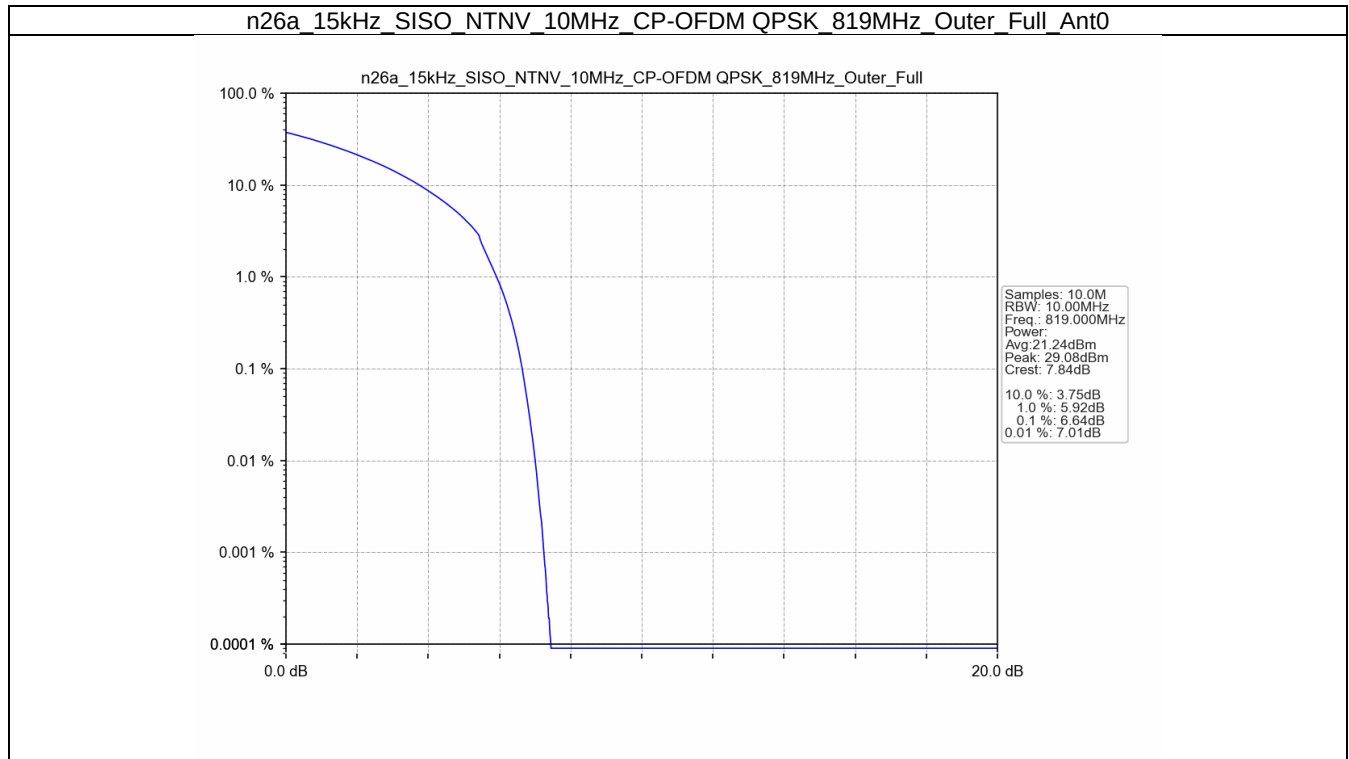
4.1.1 15_S_10M_NTNV

5G NR n26a SCS=15kHz SISO 10MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant0	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	819	Outer_Full	3.52	/	/	<=13	Pass
DFT-s-OFDM QPSK	819	Outer_Full	4.44	/	/	<=13	Pass
CP-OFDM QPSK	819	Outer_Full	6.64	/	/	<=13	Pass

4.2 Test Graph

4.2.1 15_S_10M_NTNV





5. Spurious Emission

5.1 Test Result

5.1.1 15_S_5M_NTNV

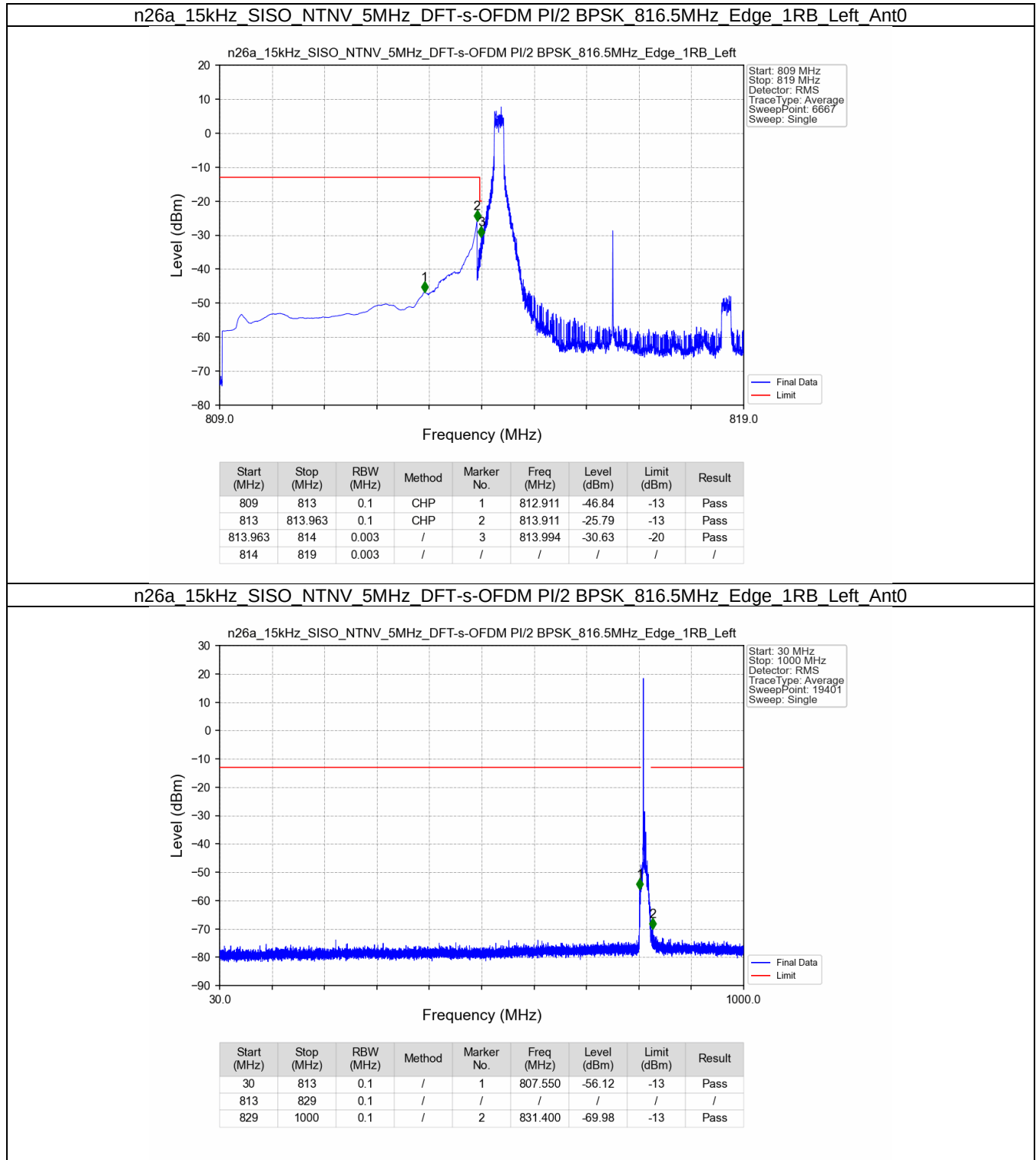
5G NR n26a SCS=15kHz SISO 5MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission				Verdict
			Ant0	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	816.5	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
	819	Edge_1RB_Left	Refer To Test Graph				Pass
		821.5	Edge_1RB_Right	Refer To Test Graph			
	Outer_Full		Refer To Test Graph				Pass
	DFT-s-OFDM QPSK	816.5	Edge_1RB_Left	Refer To Test Graph			
Outer_Full			Refer To Test Graph				Pass
819		Edge_1RB_Left	Refer To Test Graph				Pass
		821.5	Edge_1RB_Right	Refer To Test Graph			
Outer_Full			Refer To Test Graph				Pass
CP-OFDM QPSK		816.5	Edge_1RB_Left	Refer To Test Graph			
	Outer_Full		Refer To Test Graph				Pass
	819	Edge_1RB_Left	Refer To Test Graph				Pass
		821.5	Edge_1RB_Right	Refer To Test Graph			
	Outer_Full		Refer To Test Graph				Pass

5.1.2 15_S_10M_NTNV

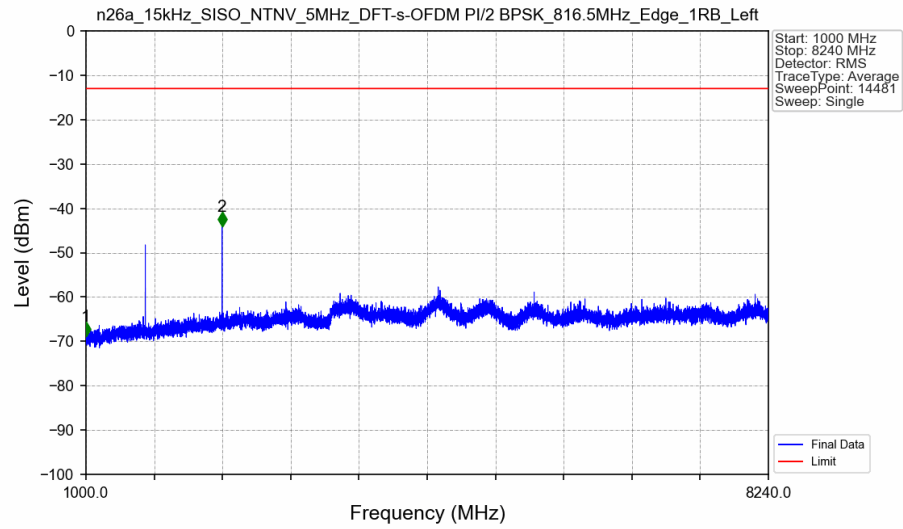
5G NR n26a SCS=15kHz SISO 10MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission				Verdict
			Ant0	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	819	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
DFT-s-OFDM QPSK	819	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
CP-OFDM QPSK	819	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass

5.2 Test Graph

5.2.1 15_S_5M_NTNV

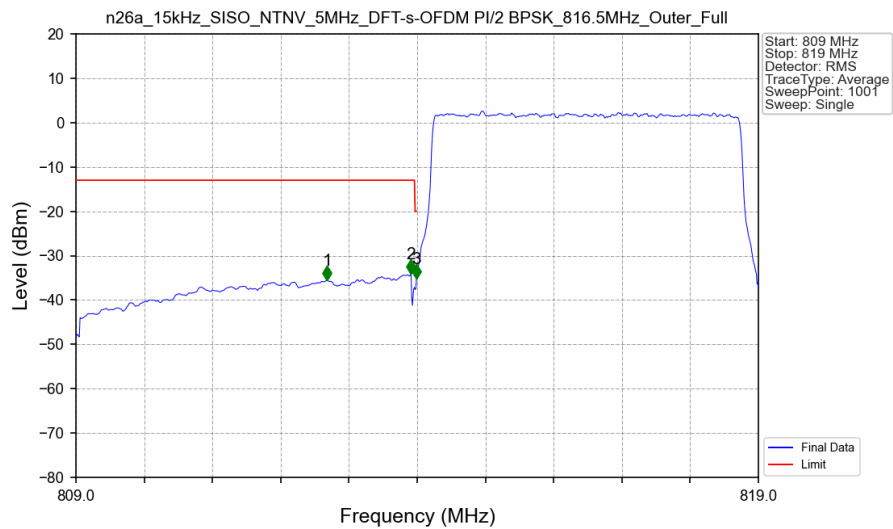


n26a_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_PI/2_BPSK_816.5MHz_Edge_1RB_Left_Ant0



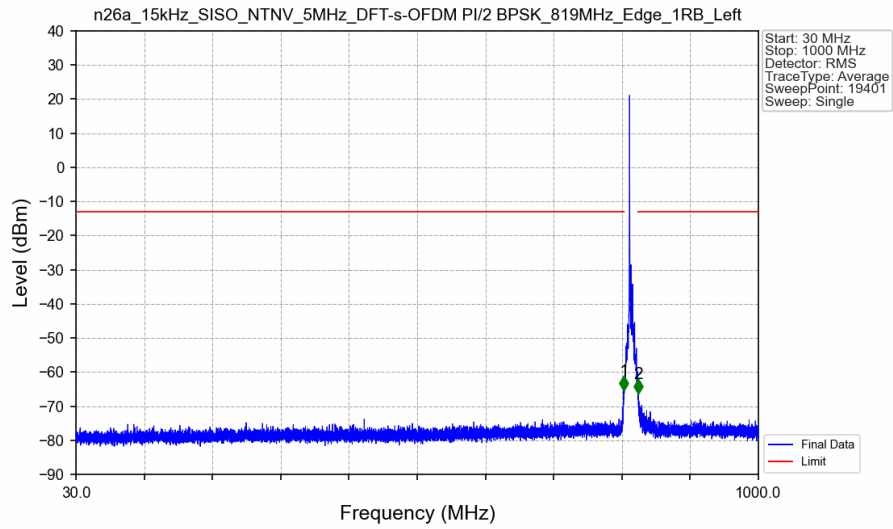
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	1000	1	/	1	1000.000	-68.82	-13	Pass
1000	8240	1	/	2	2443.500	-44.03	-13	Pass

n26a_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_PI/2_BPSK_816.5MHz_Outer_Full_Ant0



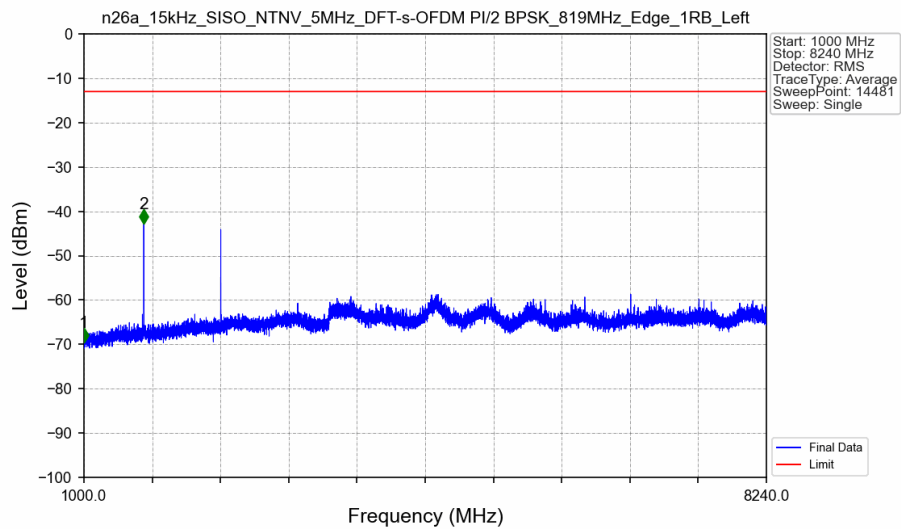
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
809	813	0.1	CHP	1	812.680	-35.53	-13	Pass
813	813.963	0.1	CHP	2	813.910	-34.06	-13	Pass
813.963	814	0.04979	CHP	3	813.990	-35.08	-20	Pass
814	819	0.04979	CHP	/	/	/	/	/

n26a_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK 819MHz_Edge_1RB_Left_Ant0



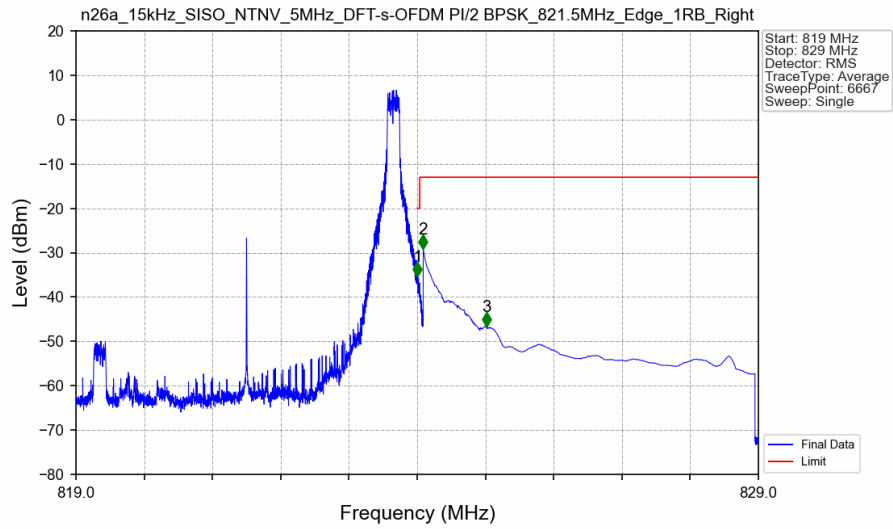
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	814	0.1	/	1	808.650	-65.29	-13	Pass
814	829	0.1	/	/	/	/	/	/
829	1000	0.1	/	2	829.150	-66.31	-13	Pass

n26a_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK 819MHz_Edge_1RB_Left_Ant0



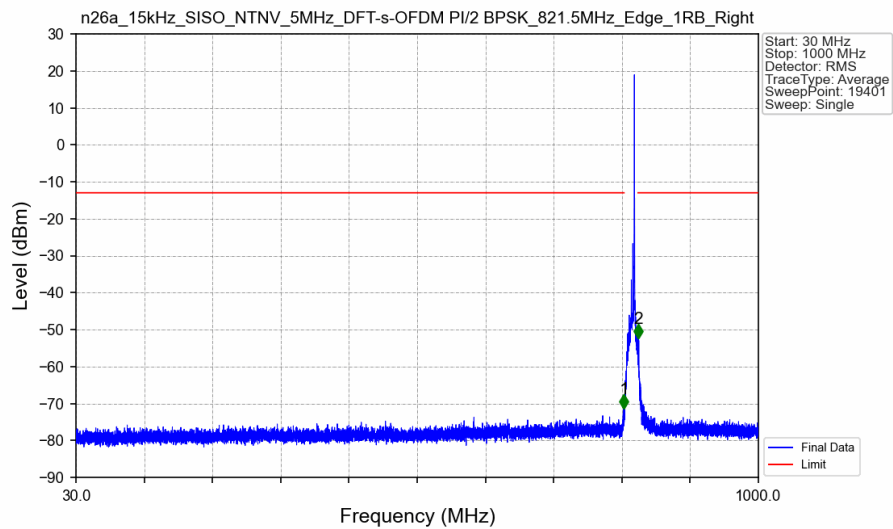
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	1000	1	/	1	1000.000	-69.60	-13	Pass
1000	8240	1	/	2	1634.500	-42.70	-13	Pass

n26a_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_821.5MHz_Edge_1RB_Right_Ant0



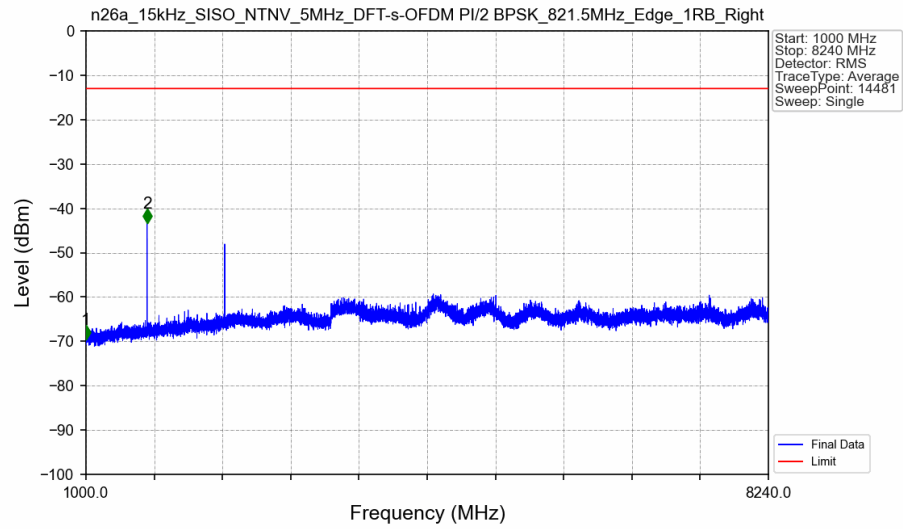
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
819	824	0.003	/	/	/	/	/	/
824	824.038	0.003	/	1	824.003	-35.39	-20	Pass
824.038	825	0.1	CHP	2	824.038	-29.09	-13	Pass
825	829	0.1	CHP	3	825.020	-46.63	-13	Pass

n26a_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_821.5MHz_Edge_1RB_Right_Ant0



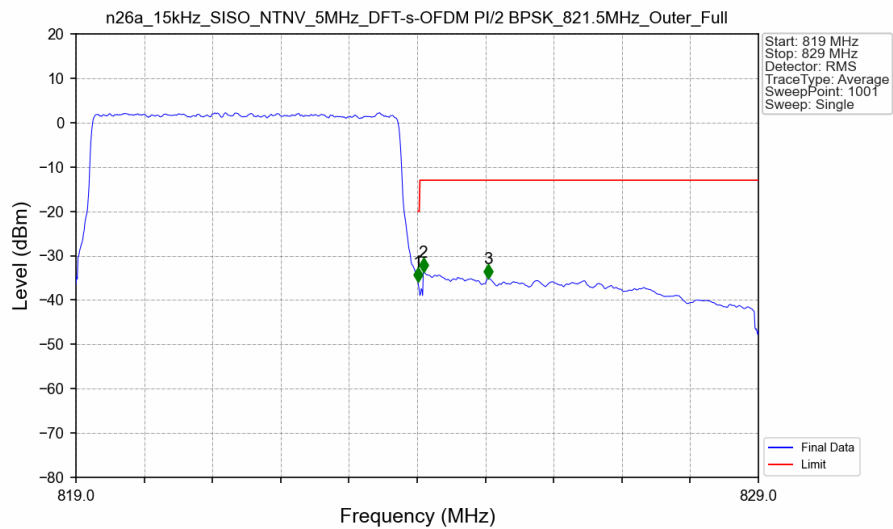
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	814	0.1	/	1	808.950	-71.28	-13	Pass
814	829	0.1	/	/	/	/	/	/
829	1000	0.1	/	2	829.450	-52.39	-13	Pass

n26a_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_821.5MHz_Edge_1RB_Right_Ant0



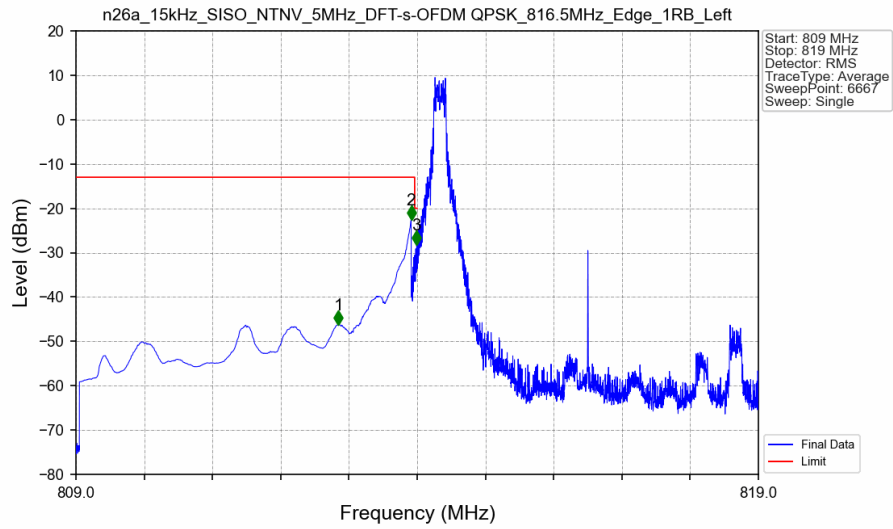
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	1000	1	/	1	1000.000	-69.53	-13	Pass
1000	8240	1	/	2	1648.000	-43.38	-13	Pass

n26a_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_821.5MHz_Outer_Full_Ant0



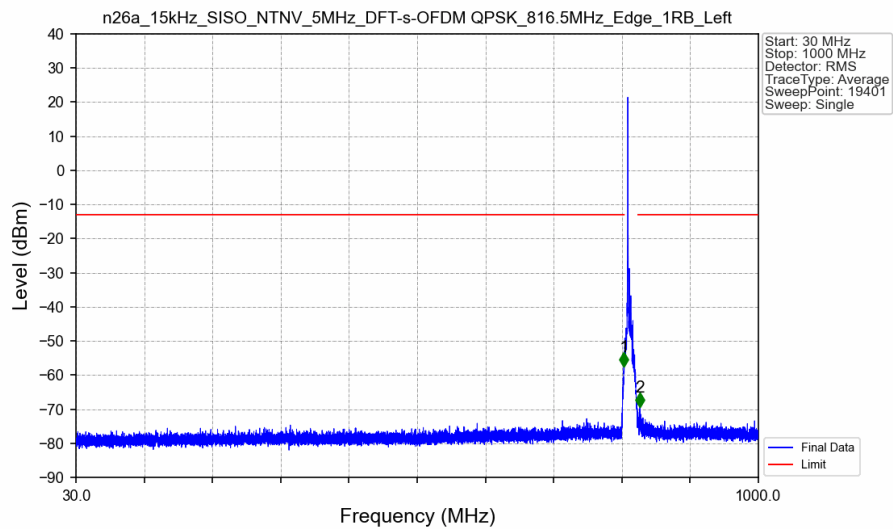
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
819	824	0.04979	CHP	/	/	/	/	/
824	824.038	0.04979	CHP	1	824.010	-35.80	-20	Pass
824.038	825	0.1	CHP	2	824.090	-33.67	-13	Pass
825	829	0.1	CHP	3	825.040	-35.12	-13	Pass

n26a_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_QPSK_816.5MHz_Edge_1RB_Left_Ant0

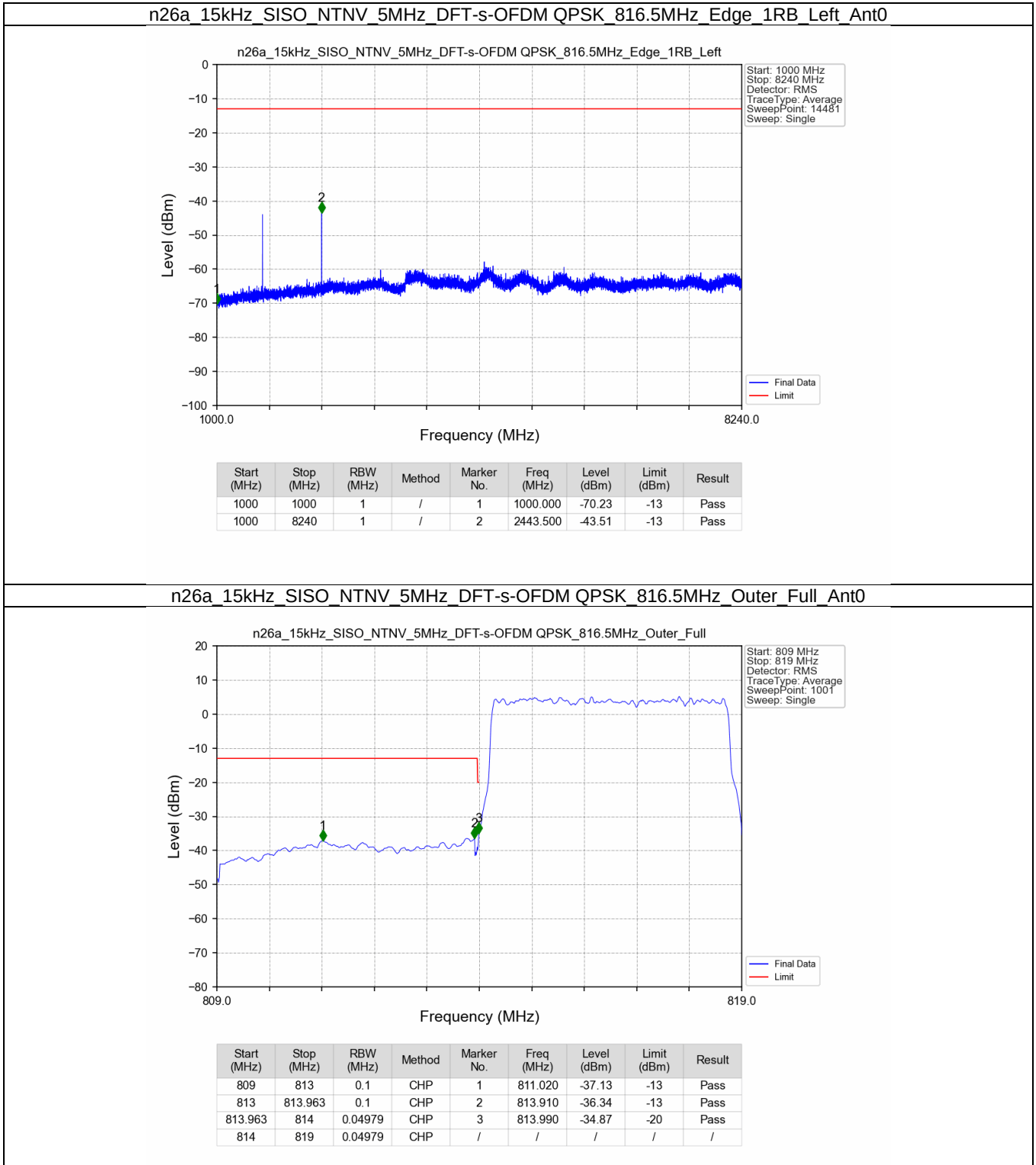


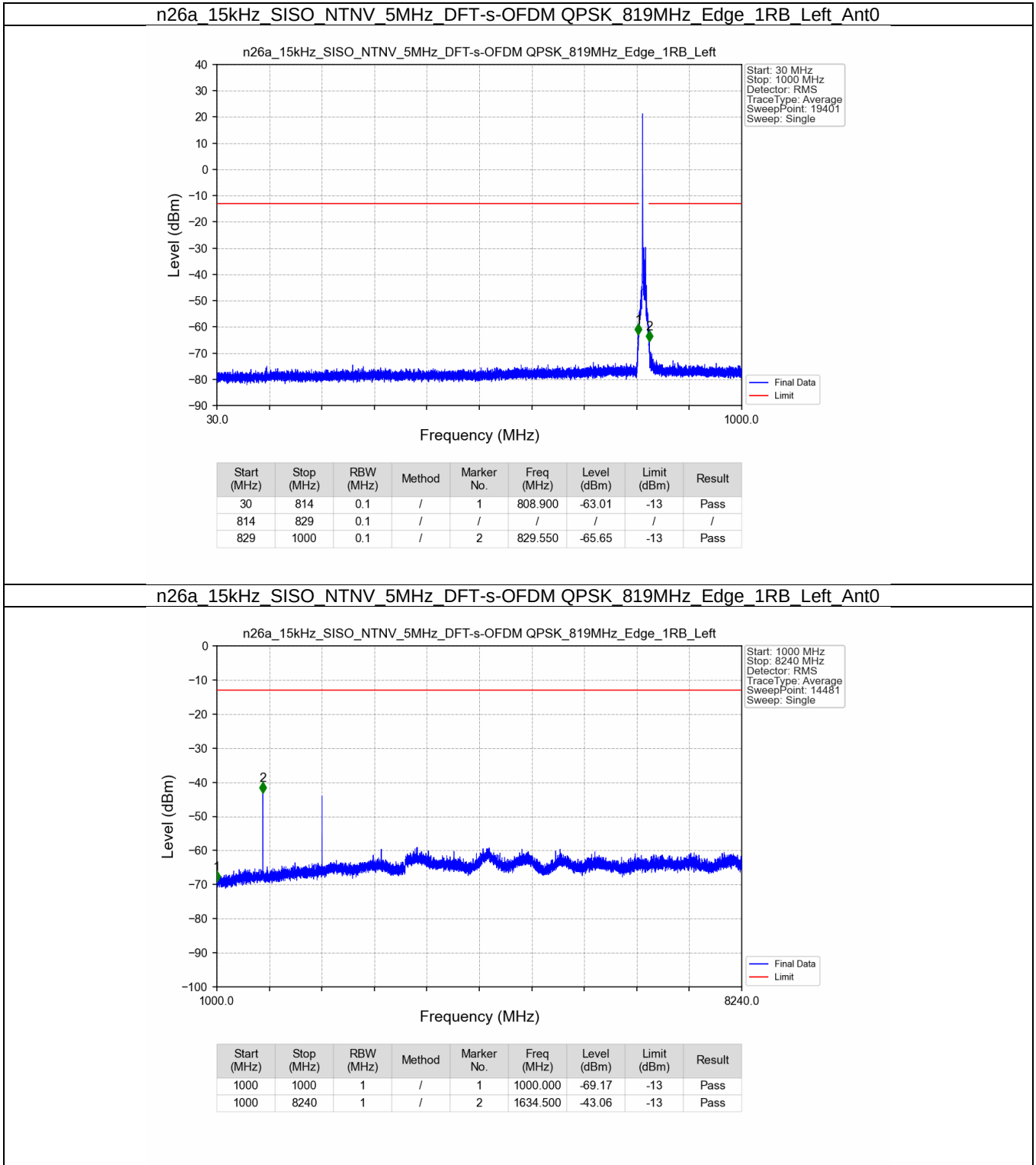
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
809	813	0.1	CHP	1	812.843	-46.21	-13	Pass
813	813.963	0.1	CHP	2	813.911	-22.55	-13	Pass
813.963	814	0.003	/	3	813.992	-28.18	-20	Pass
814	819	0.003	/	/	/	/	/	/

n26a_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_QPSK_816.5MHz_Edge_1RB_Left_Ant0

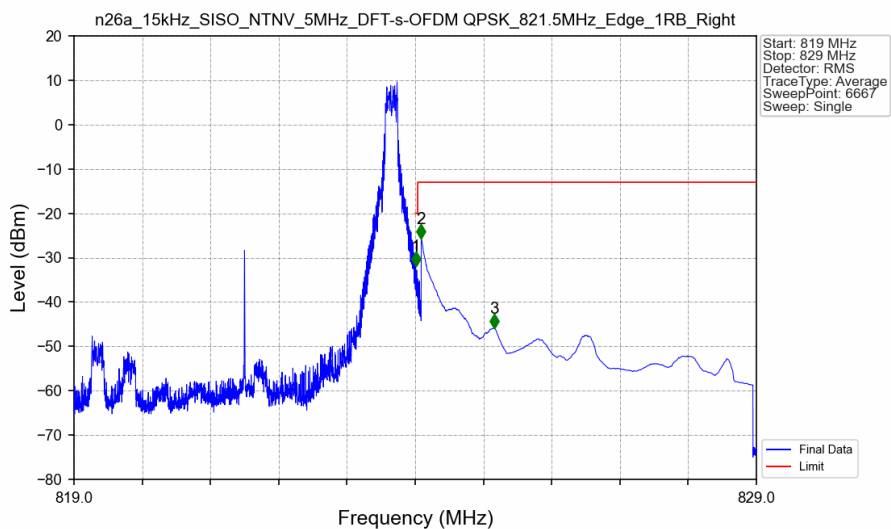


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	813	0.1	/	1	808.800	-57.38	-13	Pass
813	829	0.1	/	/	/	/	/	/
829	1000	0.1	/	2	831.600	-69.28	-13	Pass



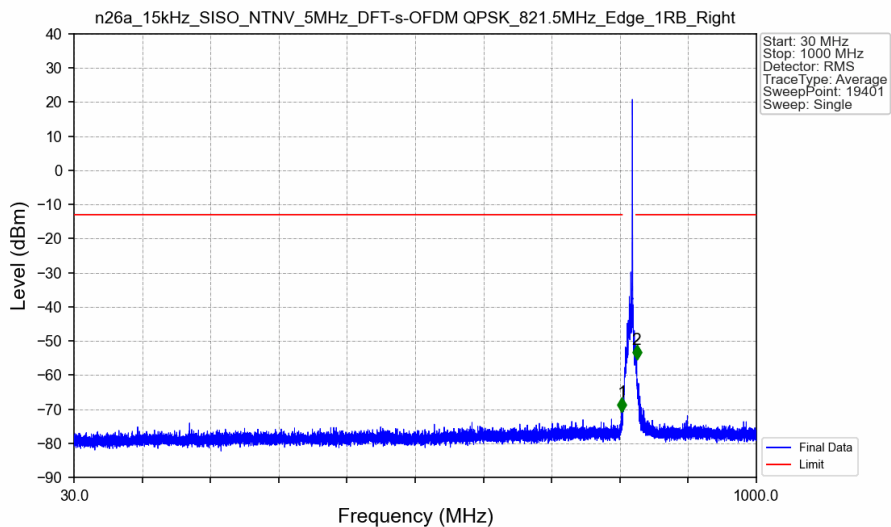


n26a_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_QPSK_821.5MHz_Edge_1RB_Right_Ant0



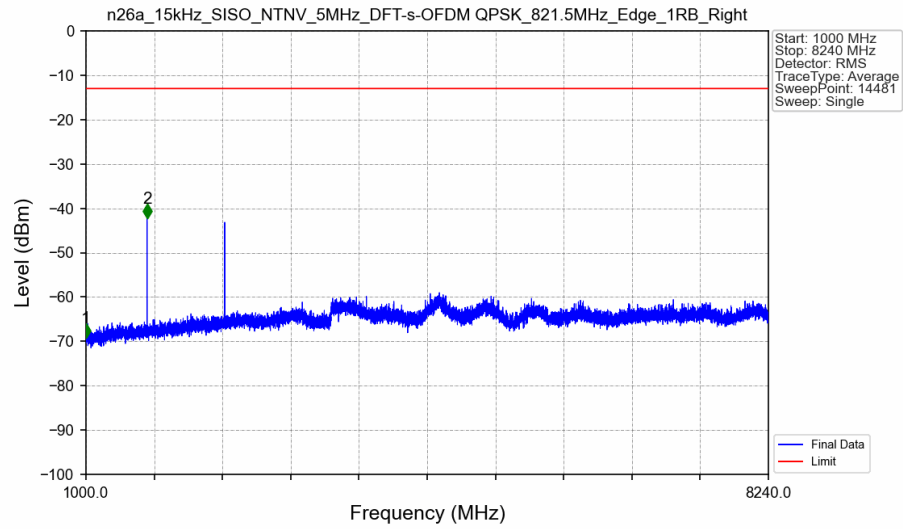
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
819	824	0.003	/	/	/	/	/	/
824	824.038	0.003	/	1	824.006	-31.90	-20	Pass
824.038	825	0.1	CHP	2	824.089	-25.59	-13	Pass
825	829	0.1	CHP	3	825.154	-45.92	-13	Pass

n26a_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_QPSK_821.5MHz_Edge_1RB_Right_Ant0



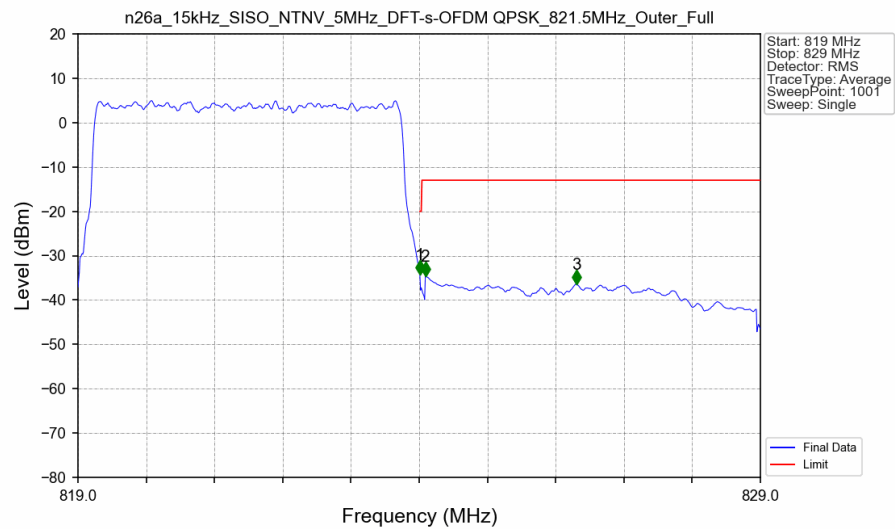
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	814	0.1	/	1	808.600	-70.77	-13	Pass
814	829	0.1	/	/	/	/	/	/
829	1000	0.1	/	2	829.900	-55.34	-13	Pass

n26a_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_QPSK_821.5MHz_Edge_1RB_Right_Ant0



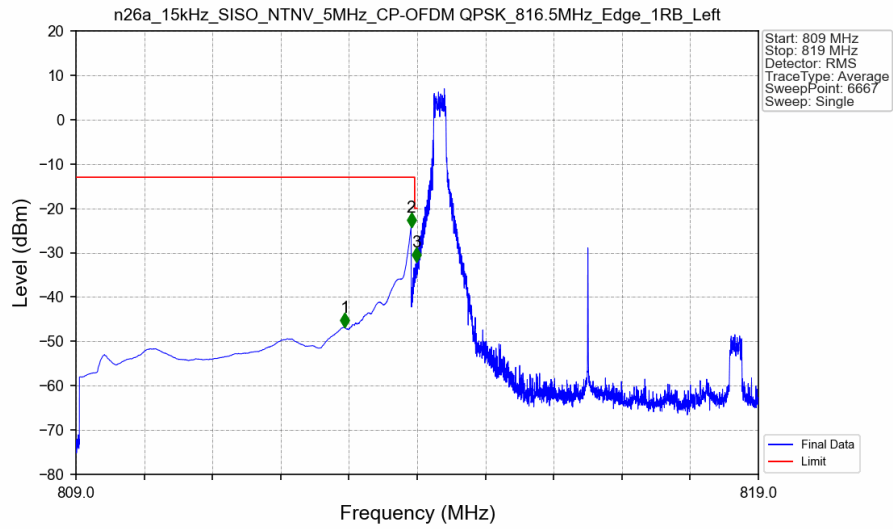
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	1000	1	/	1	1000.000	-69.18	-13	Pass
1000	8240	1	/	2	1648.000	-42.27	-13	Pass

n26a_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_QPSK_821.5MHz_Outer_Full_Ant0



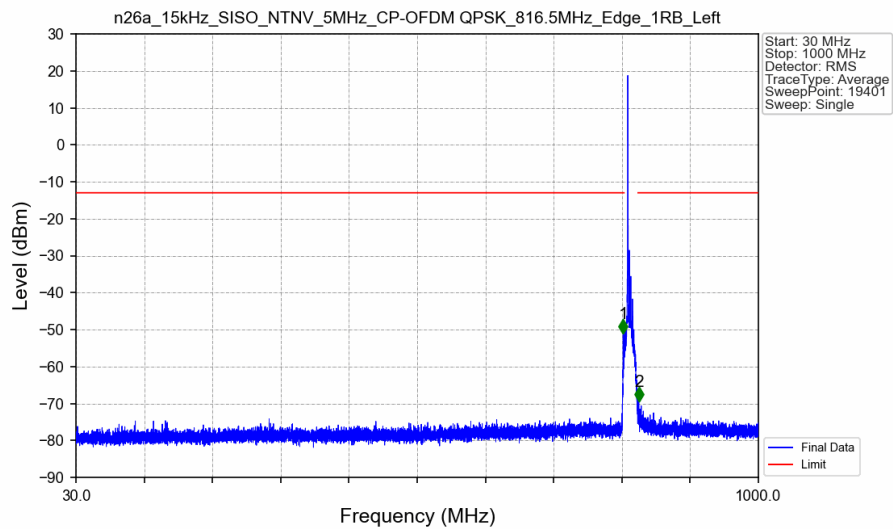
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
819	824	0.04979	CHP	/	/	/	/	/
824	824.038	0.04979	CHP	1	824.010	-34.23	-20	Pass
824.038	825	0.1	CHP	2	824.090	-34.61	-13	Pass
825	829	0.1	CHP	3	826.300	-36.41	-13	Pass

n26a_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_816.5MHz_Edge_1RB_Left_Ant0



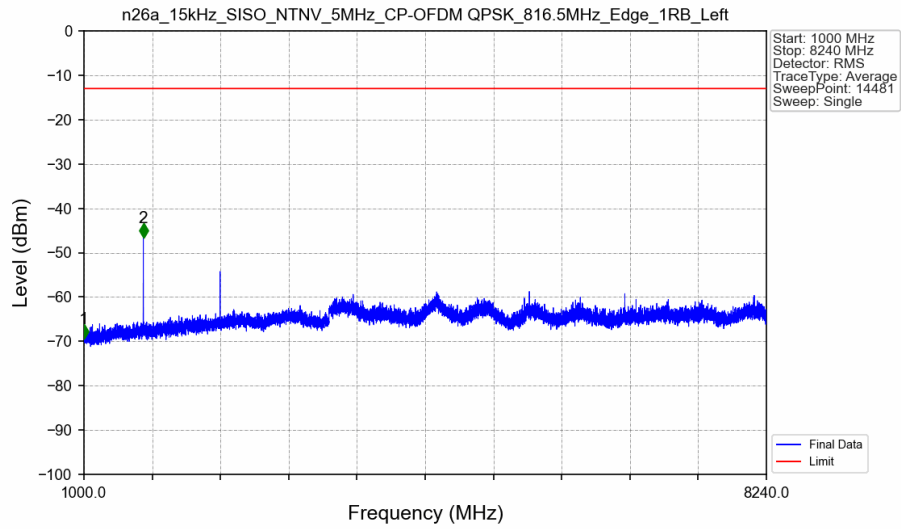
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
809	813	0.1	CHP	1	812.939	-46.88	-13	Pass
813	813.963	0.1	CHP	2	813.911	-24.29	-13	Pass
813.963	814	0.003	/	3	813.991	-31.97	-20	Pass
814	819	0.003	/	/	/	/	/	/

n26a_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_816.5MHz_Edge_1RB_Left_Ant0



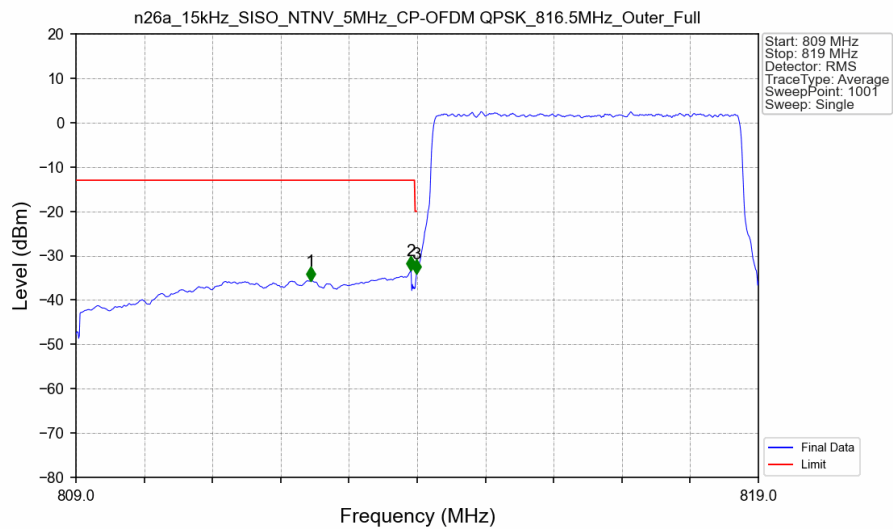
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	813	0.1	/	1	807.750	-51.09	-13	Pass
813	829	0.1	/	/	/	/	/	/
829	1000	0.1	/	2	830.000	-69.41	-13	Pass

n26a_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_816.5MHz_Edge_1RB_Left_Ant0



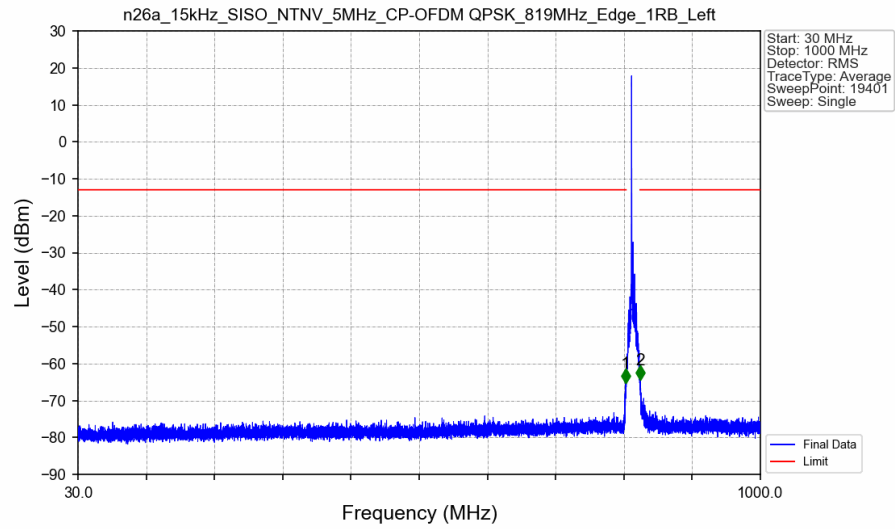
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	1000	1	/	1	1000.000	-69.30	-13	Pass
1000	8240	1	/	2	1629.500	-46.50	-13	Pass

n26a_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_816.5MHz_Outer_Full_Ant0

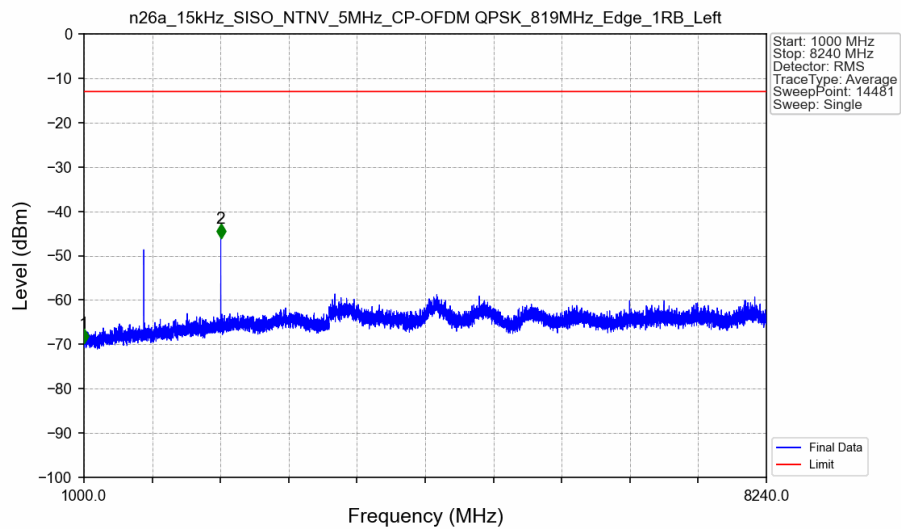


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
809	813	0.1	CHP	1	812.440	-35.64	-13	Pass
813	813.963	0.1	CHP	2	813.910	-33.39	-13	Pass
813.963	814	0.04979	CHP	3	813.990	-34.09	-20	Pass
814	819	0.04979	CHP	/	/	/	/	/

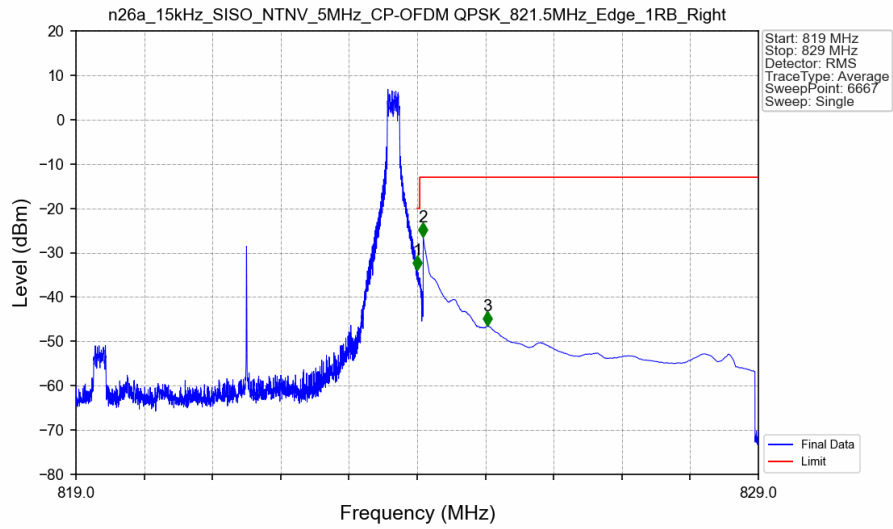
n26a_15kHz_SISO_NTNV_5MHz_CP-OFDM_QPSK_819MHz_Edge_1RB_Left_Ant0



n26a_15kHz_SISO_NTNV_5MHz_CP-OFDM_QPSK_819MHz_Edge_1RB_Left_Ant0

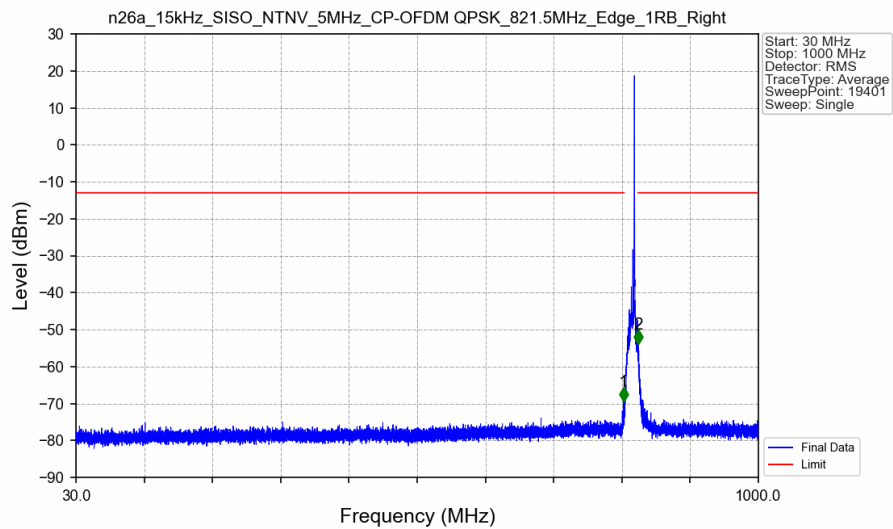


n26a_15kHz_SISO_NTNV_5MHz_CP-OFDM_QPSK_821.5MHz_Edge_1RB_Right_Ant0



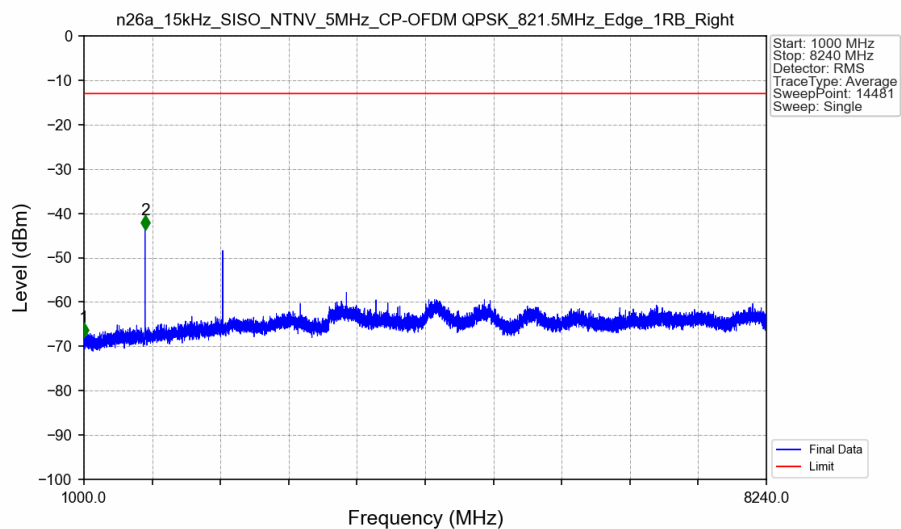
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
819	824	0.003	/	/	/	/	/	/
824	824.038	0.003	/	1	824.001	-33.86	-20	Pass
824.038	825	0.1	CHP	2	824.089	-26.35	-13	Pass
825	829	0.1	CHP	3	825.023	-46.50	-13	Pass

n26a_15kHz_SISO_NTNV_5MHz_CP-OFDM_QPSK_821.5MHz_Edge_1RB_Right_Ant0



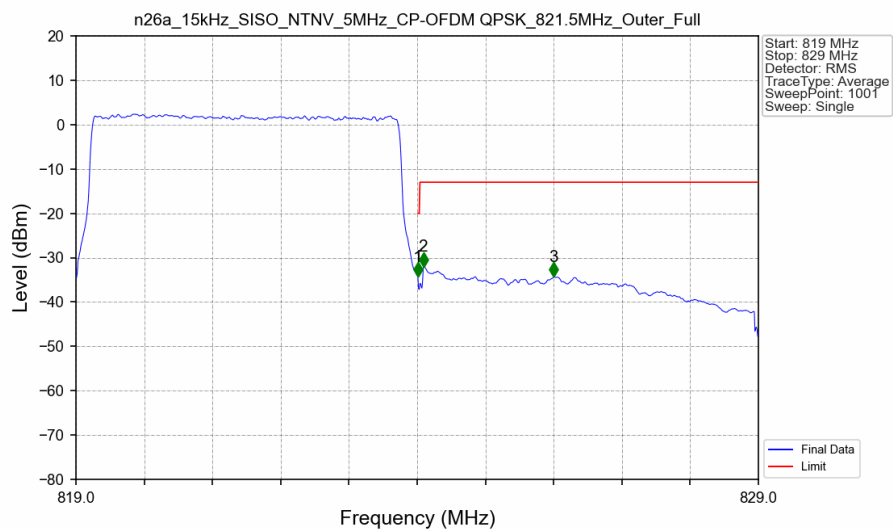
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	814	0.1	/	1	808.200	-69.29	-13	Pass
814	829	0.1	/	/	/	/	/	/
829	1000	0.1	/	2	829.550	-53.86	-13	Pass

n26a_15kHz_SISO_NTNV_5MHz_CP-OFDM_QPSK_821.5MHz_Edge_1RB_Right_Ant0



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	1000	1	/	1	1000.000	-67.81	-13	Pass
1000	8240	1	/	2	1648.000	-43.67	-13	Pass

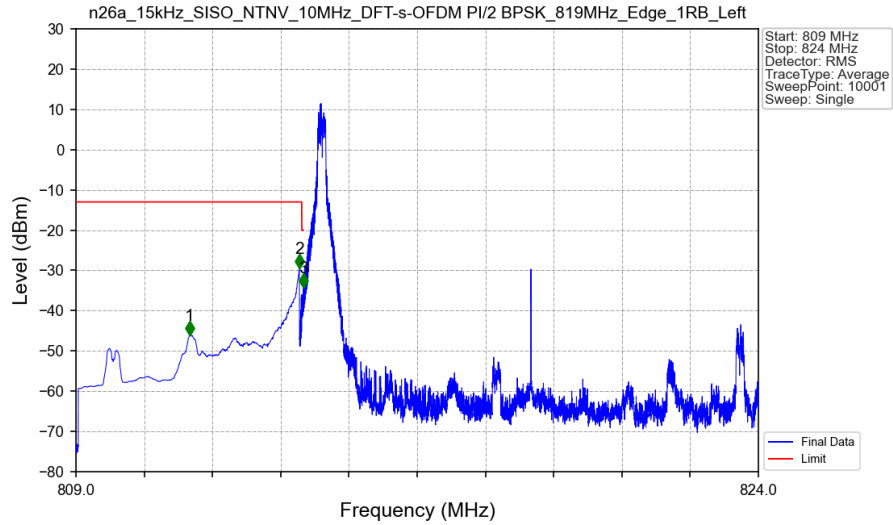
n26a_15kHz_SISO_NTNV_5MHz_CP-OFDM_QPSK_821.5MHz_Outer_Full_Ant0



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
819	824	0.04979	CHP	/	/	/	/	/
824	824.038	0.04979	CHP	1	824.010	-34.18	-20	Pass
824.038	825	0.1	CHP	2	824.090	-31.95	-13	Pass
825	829	0.1	CHP	3	826.000	-34.29	-13	Pass

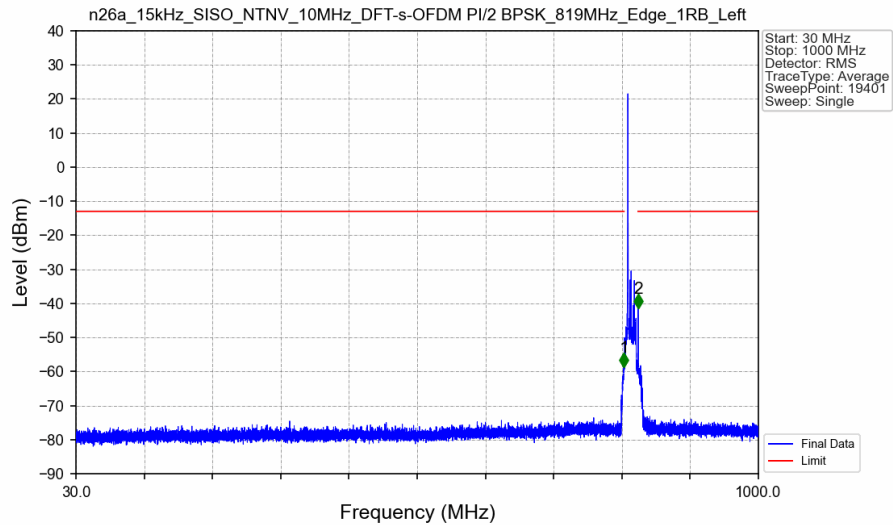
5.2.2 15_S_10M_NTNV

n26a_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_819MHz_Edge_1RB_Left_Ant0



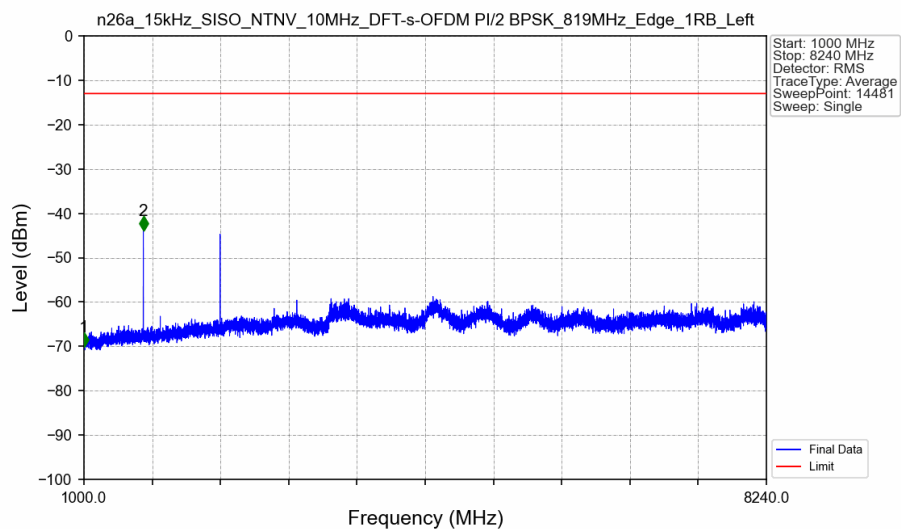
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
809	813	0.1	CHP	1	811.497	-46.17	-13	Pass
813	813.963	0.1	CHP	2	813.911	-29.38	-13	Pass
813.963	814	0.003	/	3	813.994	-34.16	-20	Pass
814	824	0.003	/	/	/	/	/	/

n26a_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_819MHz_Edge_1RB_Left_Ant0



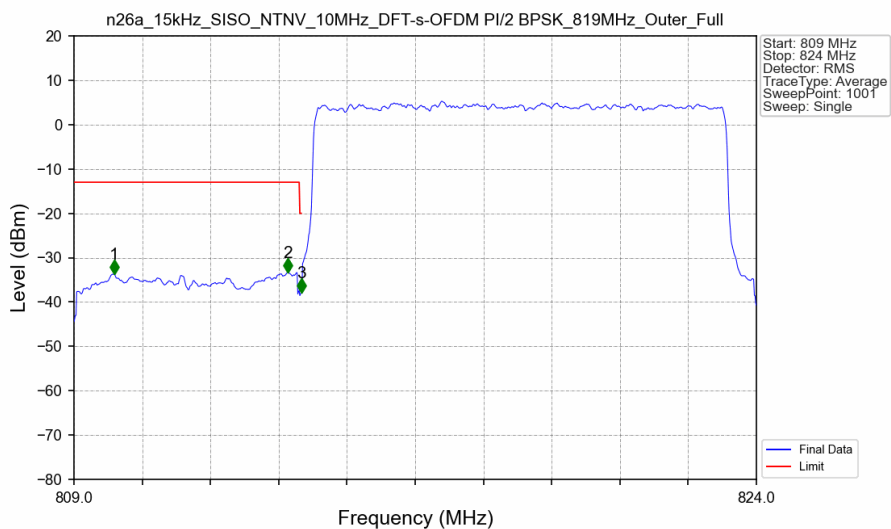
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	813	0.1	/	1	808.650	-58.62	-13	Pass
813	829	0.1	/	/	/	/	/	/
829	1000	0.1	/	2	829.050	-41.28	-13	Pass

n26a_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_819MHz_Edge_1RB_Left_Ant0



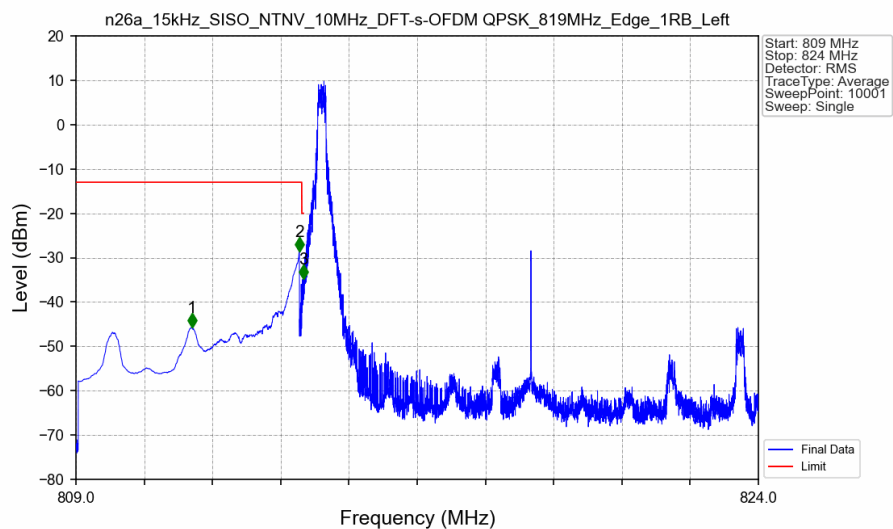
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	1000	1	/	1	1000.000	-70.12	-13	Pass
1000	8240	1	/	2	1629.500	-43.84	-13	Pass

n26a_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_819MHz_Outer_Full_Ant0



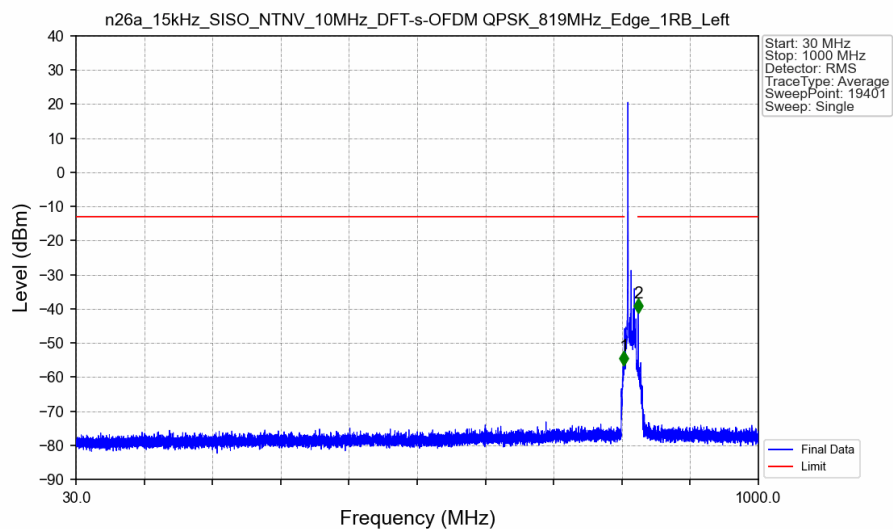
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
809	813	0.1	CHP	1	809.885	-33.72	-13	Pass
813	813.963	0.1	CHP	2	813.695	-33.25	-13	Pass
813.963	814	0.09681	CHP	3	813.995	-37.90	-20	Pass
814	824	0.09681	CHP	/	/	/	/	/

n26a_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK 819MHz_Edge_1RB_Left_Ant0



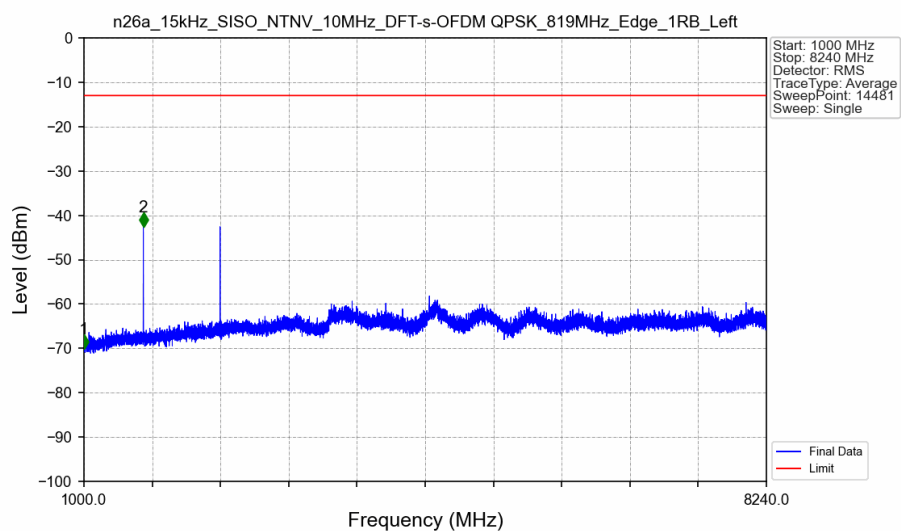
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
809	813	0.1	CHP	1	811.548	-45.69	-13	Pass
813	813.963	0.1	CHP	2	813.911	-28.54	-13	Pass
813.963	814	0.003	/	3	813.994	-34.69	-20	Pass
814	824	0.003	/	/	/	/	/	/

n26a_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK 819MHz_Edge_1RB_Left_Ant0



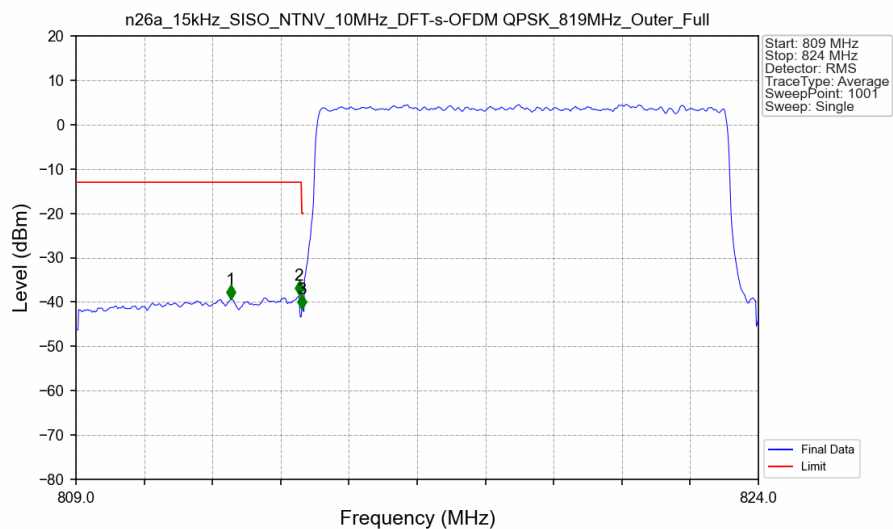
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	813	0.1	/	1	808.900	-56.53	-13	Pass
813	829	0.1	/	/	/	/	/	/
829	1000	0.1	/	2	829.050	-41.17	-13	Pass

n26a_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_819MHz_Edge_1RB_Left_Ant0



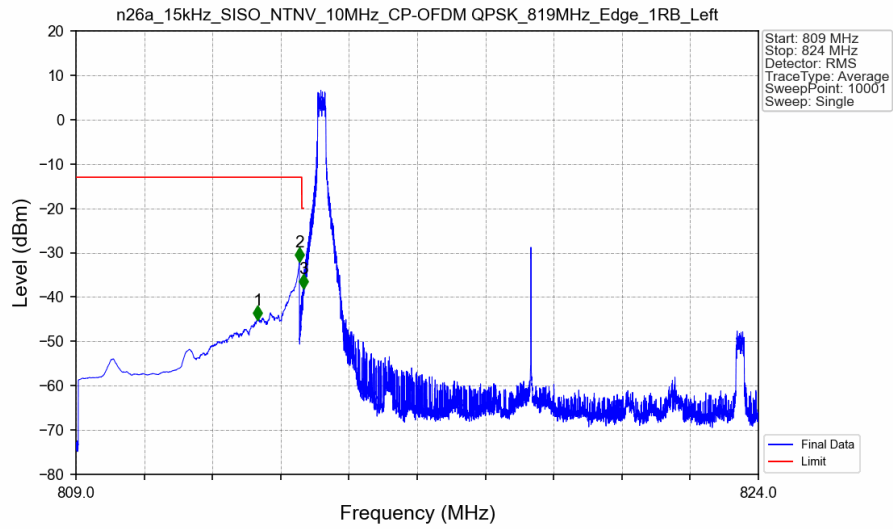
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	1000	1	/	1	1000.000	-70.10	-13	Pass
1000	8240	1	/	2	1629.500	-42.52	-13	Pass

n26a_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_819MHz_Outer_Full_Ant0

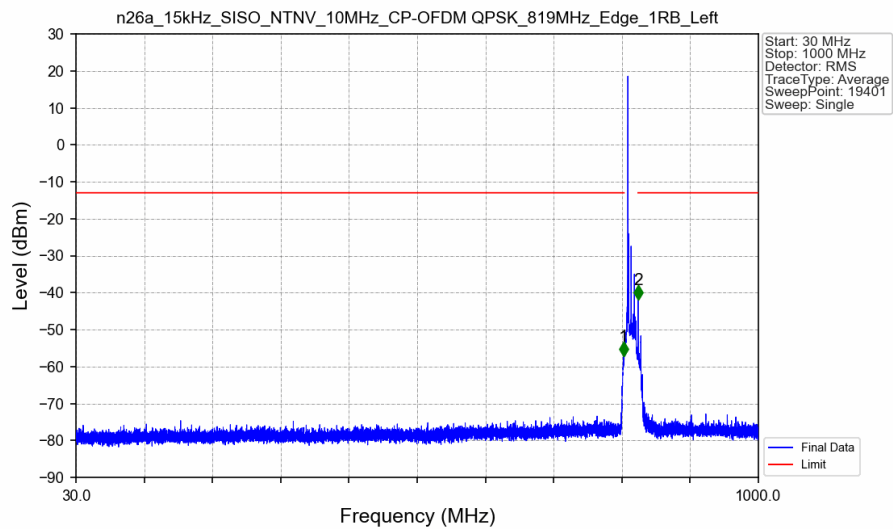


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
809	813	0.1	CHP	1	812.405	-39.32	-13	Pass
813	813.963	0.1	CHP	2	813.905	-38.50	-13	Pass
813.963	814	0.09675	CHP	3	813.965	-41.45	-20	Pass
814	824	0.09675	CHP	/	/	/	/	/

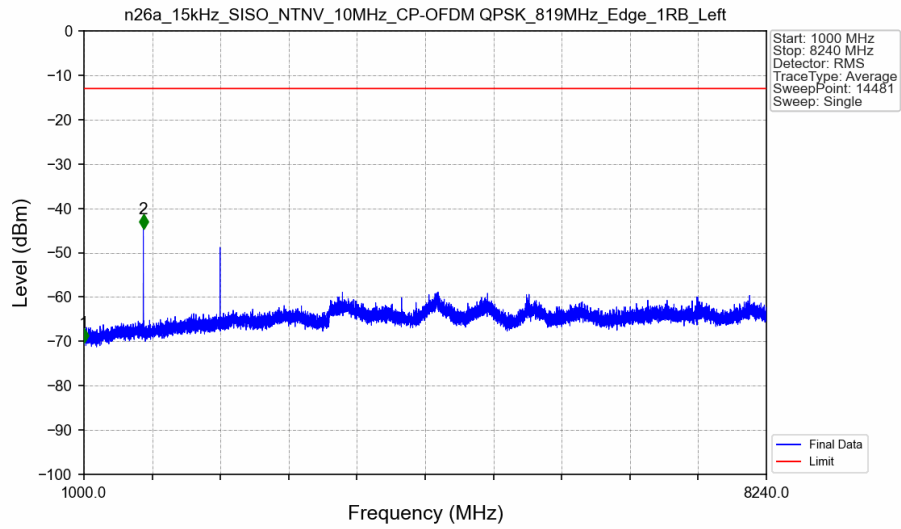
n26a_15kHz_SISO_NTNV_10MHz_CP-OFDM_QPSK_819MHz_Edge_1RB_Left_Ant0



n26a_15kHz_SISO_NTNV_10MHz_CP-OFDM_QPSK_819MHz_Edge_1RB_Left_Ant0

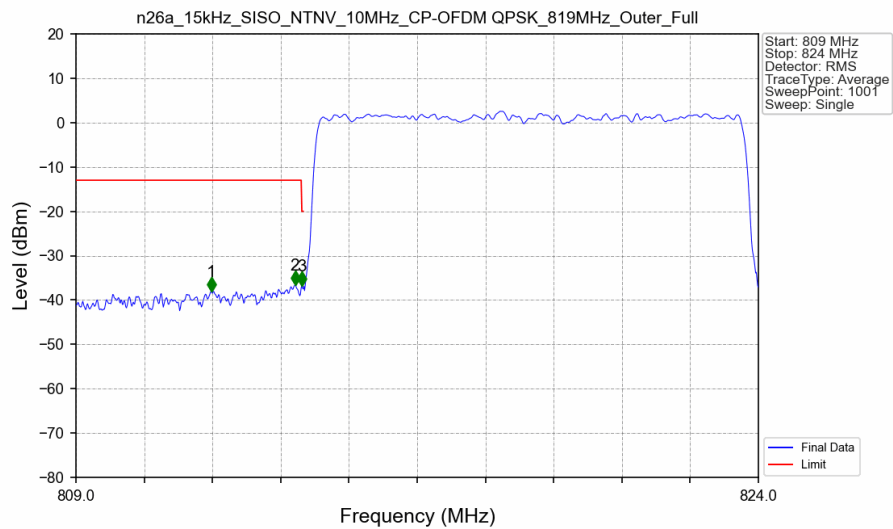


n26a_15kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_819MHz_Edge_1RB_Left_Ant0



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	1000	1	/	1	1000.000	-70.29	-13	Pass
1000	8240	1	/	2	1629.500	-44.61	-13	Pass

n26a_15kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_819MHz_Outer_Full_Ant0



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
809	813	0.1	/	1	811.970	-38.05	-13	Pass
813	813.963	0.1	/	2	813.815	-36.65	-13	Pass
813.963	814	0.10042	/	3	813.965	-36.73	-20	Pass
814	824	0.10042	CHP	/	/	/	/	/