



Appendix A.29

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 15_S_5M_NTNV_ERP

5G NR n13 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	779.5	Edge_1RB_Left	22.60	/	/	21.25	/	/	<=34.77	Pass
		Edge_1RB_Right	22.80	/	/	21.45	/	/	<=34.77	Pass
		Outer_Full	22.61	/	/	21.26	/	/	<=34.77	Pass
		Inner_Full	23.25	/	/	21.90	/	/	<=34.77	Pass
		Inner_1RB_Left	22.83	/	/	21.48	/	/	<=34.77	Pass
		Inner_1RB_Right	23.15	/	/	21.80	/	/	<=34.77	Pass
	782	Edge_1RB_Left	22.05	/	/	20.70	/	/	<=34.77	Pass
		Edge_1RB_Right	22.47	/	/	21.12	/	/	<=34.77	Pass
		Outer_Full	22.35	/	/	21.00	/	/	<=34.77	Pass
		Inner_Full	23.21	/	/	21.86	/	/	<=34.77	Pass
		Inner_1RB_Left	22.48	/	/	21.13	/	/	<=34.77	Pass
		Inner_1RB_Right	23.26	/	/	21.91	/	/	<=34.77	Pass
	784.5	Edge_1RB_Left	22.63	/	/	21.28	/	/	<=34.77	Pass
		Edge_1RB_Right	22.61	/	/	21.26	/	/	<=34.77	Pass
		Outer_Full	22.57	/	/	21.22	/	/	<=34.77	Pass
		Inner_Full	23.10	/	/	21.75	/	/	<=34.77	Pass
		Inner_1RB_Left	23.10	/	/	21.75	/	/	<=34.77	Pass
		Inner_1RB_Right	23.12	/	/	21.77	/	/	<=34.77	Pass
DFT-s-OFDM QPSK	779.5	Edge_1RB_Left	22.12	/	/	20.77	/	/	<=34.77	Pass
		Edge_1RB_Right	22.31	/	/	20.96	/	/	<=34.77	Pass
		Outer_Full	20.64	/	/	19.29	/	/	<=34.77	Pass
		Inner_Full	23.28	/	/	21.93	/	/	<=34.77	Pass
		Inner_1RB_Left	23.40	/	/	22.05	/	/	<=34.77	Pass
		Inner_1RB_Right	23.47	/	/	22.12	/	/	<=34.77	Pass
	782	Edge_1RB_Left	21.90	/	/	20.55	/	/	<=34.77	Pass
		Edge_1RB_Right	22.02	/	/	20.67	/	/	<=34.77	Pass
		Outer_Full	20.61	/	/	19.26	/	/	<=34.77	Pass
		Inner_Full	23.11	/	/	21.76	/	/	<=34.77	Pass
		Inner_1RB_Left	22.99	/	/	21.64	/	/	<=34.77	Pass
		Inner_1RB_Right	23.28	/	/	21.93	/	/	<=34.77	Pass
	784.5	Edge_1RB_Left	22.27	/	/	20.92	/	/	<=34.77	Pass
		Edge_1RB_Right	22.34	/	/	20.99	/	/	<=34.77	Pass
		Outer_Full	20.50	/	/	19.15	/	/	<=34.77	Pass
		Inner_Full	23.19	/	/	21.84	/	/	<=34.77	Pass
		Inner_1RB_Left	23.50	/	/	22.15	/	/	<=34.77	Pass
		Inner_1RB_Right	23.46	/	/	22.11	/	/	<=34.77	Pass
DFT-s-OFDM 16 QAM	779.5	Edge_1RB_Left	21.33	/	/	19.98	/	/	<=34.77	Pass
		Edge_1RB_Right	21.34	/	/	19.99	/	/	<=34.77	Pass
		Outer_Full	19.77	/	/	18.42	/	/	<=34.77	Pass
		Inner_Full	22.12	/	/	20.77	/	/	<=34.77	Pass

		Inner_1RB_Left	22.44	/	/	21.09	/	/	<=34.77	Pass
		Inner_1RB_Right	22.33	/	/	20.98	/	/	<=34.77	Pass
	782	Edge_1RB_Left	21.42	/	/	20.07	/	/	<=34.77	Pass
		Edge_1RB_Right	21.39	/	/	20.04	/	/	<=34.77	Pass
		Outer_Full	19.65	/	/	18.30	/	/	<=34.77	Pass
		Inner_Full	22.12	/	/	20.77	/	/	<=34.77	Pass
		Inner_1RB_Left	22.32	/	/	20.97	/	/	<=34.77	Pass
		Inner_1RB_Right	22.34	/	/	20.99	/	/	<=34.77	Pass
	784.5	Edge_1RB_Left	21.40	/	/	20.05	/	/	<=34.77	Pass
		Edge_1RB_Right	21.35	/	/	20.00	/	/	<=34.77	Pass
		Outer_Full	19.61	/	/	18.26	/	/	<=34.77	Pass
		Inner_Full	22.13	/	/	20.78	/	/	<=34.77	Pass
		Inner_1RB_Left	22.34	/	/	20.99	/	/	<=34.77	Pass
		Inner_1RB_Right	22.15	/	/	20.80	/	/	<=34.77	Pass
DFT-s-OFDM 64 QAM	779.5	Edge_1RB_Left	20.89	/	/	19.54	/	/	<=34.77	Pass
		Edge_1RB_Right	20.85	/	/	19.50	/	/	<=34.77	Pass
		Outer_Full	19.31	/	/	17.96	/	/	<=34.77	Pass
		Inner_Full	20.60	/	/	19.25	/	/	<=34.77	Pass
		Inner_1RB_Left	20.83	/	/	19.48	/	/	<=34.77	Pass
		Inner_1RB_Right	20.77	/	/	19.42	/	/	<=34.77	Pass
	782	Edge_1RB_Left	20.90	/	/	19.55	/	/	<=34.77	Pass
		Edge_1RB_Right	20.73	/	/	19.38	/	/	<=34.77	Pass
		Outer_Full	19.26	/	/	17.91	/	/	<=34.77	Pass
		Inner_Full	20.69	/	/	19.34	/	/	<=34.77	Pass
		Inner_1RB_Left	20.86	/	/	19.51	/	/	<=34.77	Pass
		Inner_1RB_Right	20.81	/	/	19.46	/	/	<=34.77	Pass
	784.5	Edge_1RB_Left	20.93	/	/	19.58	/	/	<=34.77	Pass
		Edge_1RB_Right	20.76	/	/	19.41	/	/	<=34.77	Pass
		Outer_Full	18.94	/	/	17.59	/	/	<=34.77	Pass
		Inner_Full	20.44	/	/	19.09	/	/	<=34.77	Pass
		Inner_1RB_Left	20.86	/	/	19.51	/	/	<=34.77	Pass
		Inner_1RB_Right	20.66	/	/	19.31	/	/	<=34.77	Pass
DFT-s-OFDM 256 QAM	779.5	Edge_1RB_Left	18.39	/	/	17.04	/	/	<=34.77	Pass
		Edge_1RB_Right	18.26	/	/	16.91	/	/	<=34.77	Pass
		Outer_Full	16.21	/	/	14.86	/	/	<=34.77	Pass
		Inner_Full	18.54	/	/	17.19	/	/	<=34.77	Pass
		Inner_1RB_Left	18.14	/	/	16.79	/	/	<=34.77	Pass
		Inner_1RB_Right	18.26	/	/	16.91	/	/	<=34.77	Pass
	782	Edge_1RB_Left	18.30	/	/	16.95	/	/	<=34.77	Pass
		Edge_1RB_Right	18.10	/	/	16.75	/	/	<=34.77	Pass
		Outer_Full	15.70	/	/	14.35	/	/	<=34.77	Pass
		Inner_Full	18.30	/	/	16.95	/	/	<=34.77	Pass
		Inner_1RB_Left	17.73	/	/	16.38	/	/	<=34.77	Pass
		Inner_1RB_Right	18.04	/	/	16.69	/	/	<=34.77	Pass
	784.5	Edge_1RB_Left	18.22	/	/	16.87	/	/	<=34.77	Pass
		Edge_1RB_Right	17.88	/	/	16.53	/	/	<=34.77	Pass
		Outer_Full	15.95	/	/	14.60	/	/	<=34.77	Pass
		Inner_Full	18.58	/	/	17.23	/	/	<=34.77	Pass
		Inner_1RB_Left	17.96	/	/	16.61	/	/	<=34.77	Pass
		Inner_1RB_Right	17.87	/	/	16.52	/	/	<=34.77	Pass
CP-OFDM QPSK	779.5	Edge_1RB_Left	20.09	/	/	18.74	/	/	<=34.77	Pass
		Edge_1RB_Right	20.28	/	/	18.93	/	/	<=34.77	Pass
		Outer_Full	20.20	/	/	18.85	/	/	<=34.77	Pass

		Inner Full	21.75	/	/	20.40	/	/	<=34.77	Pass
		Inner 1RB Left	21.52	/	/	20.17	/	/	<=34.77	Pass
		Inner 1RB Right	21.78	/	/	20.43	/	/	<=34.77	Pass
	782	Edge 1RB Left	20.17	/	/	18.82	/	/	<=34.77	Pass
		Edge 1RB Right	20.31	/	/	18.96	/	/	<=34.77	Pass
		Outer Full	19.98	/	/	18.63	/	/	<=34.77	Pass
		Inner Full	21.70	/	/	20.35	/	/	<=34.77	Pass
		Inner 1RB Left	21.48	/	/	20.13	/	/	<=34.77	Pass
		Inner 1RB Right	21.59	/	/	20.24	/	/	<=34.77	Pass
	784.5	Edge 1RB Left	20.12	/	/	18.77	/	/	<=34.77	Pass
		Edge 1RB Right	20.32	/	/	18.97	/	/	<=34.77	Pass
		Outer Full	20.24	/	/	18.89	/	/	<=34.77	Pass
		Inner Full	21.72	/	/	20.37	/	/	<=34.77	Pass
		Inner 1RB Left	21.67	/	/	20.32	/	/	<=34.77	Pass
		Inner 1RB Right	21.69	/	/	20.34	/	/	<=34.77	Pass
CP-OFDM 16 QAM	779.5	Edge 1RB Left	20.10	/	/	18.75	/	/	<=34.77	Pass
		Edge 1RB Right	20.25	/	/	18.90	/	/	<=34.77	Pass
		Outer Full	18.20	/	/	16.85	/	/	<=34.77	Pass
		Inner Full	21.31	/	/	19.96	/	/	<=34.77	Pass
		Inner 1RB Left	21.15	/	/	19.80	/	/	<=34.77	Pass
		Inner 1RB Right	21.43	/	/	20.08	/	/	<=34.77	Pass
	782	Edge 1RB Left	20.12	/	/	18.77	/	/	<=34.77	Pass
		Edge 1RB Right	20.05	/	/	18.70	/	/	<=34.77	Pass
		Outer Full	17.94	/	/	16.59	/	/	<=34.77	Pass
		Inner Full	21.20	/	/	19.85	/	/	<=34.77	Pass
		Inner 1RB Left	21.14	/	/	19.79	/	/	<=34.77	Pass
		Inner 1RB Right	21.17	/	/	19.82	/	/	<=34.77	Pass
	784.5	Edge 1RB Left	20.45	/	/	19.10	/	/	<=34.77	Pass
		Edge 1RB Right	20.33	/	/	18.98	/	/	<=34.77	Pass
		Outer Full	18.09	/	/	16.74	/	/	<=34.77	Pass
		Inner Full	21.21	/	/	19.86	/	/	<=34.77	Pass
		Inner 1RB Left	21.32	/	/	19.97	/	/	<=34.77	Pass
		Inner 1RB Right	21.12	/	/	19.77	/	/	<=34.77	Pass
CP-OFDM 64 QAM	779.5	Edge 1RB Left	19.74	/	/	18.39	/	/	<=34.77	Pass
		Edge 1RB Right	19.77	/	/	18.42	/	/	<=34.77	Pass
		Outer Full	17.87	/	/	16.52	/	/	<=34.77	Pass
		Inner Full	19.78	/	/	18.43	/	/	<=34.77	Pass
		Inner 1RB Left	19.56	/	/	18.21	/	/	<=34.77	Pass
		Inner 1RB Right	19.79	/	/	18.44	/	/	<=34.77	Pass
	782	Edge 1RB Left	19.75	/	/	18.40	/	/	<=34.77	Pass
		Edge 1RB Right	19.61	/	/	18.26	/	/	<=34.77	Pass
		Outer Full	17.46	/	/	16.11	/	/	<=34.77	Pass
		Inner Full	19.64	/	/	18.29	/	/	<=34.77	Pass
		Inner 1RB Left	19.78	/	/	18.43	/	/	<=34.77	Pass
		Inner 1RB Right	19.79	/	/	18.44	/	/	<=34.77	Pass
	784.5	Edge 1RB Left	19.89	/	/	18.54	/	/	<=34.77	Pass
		Edge 1RB Right	19.81	/	/	18.46	/	/	<=34.77	Pass
		Outer Full	17.81	/	/	16.46	/	/	<=34.77	Pass
		Inner Full	19.57	/	/	18.22	/	/	<=34.77	Pass
		Inner 1RB Left	19.75	/	/	18.40	/	/	<=34.77	Pass
		Inner 1RB Right	19.91	/	/	18.56	/	/	<=34.77	Pass
CP-OFDM 256 QAM	779.5	Edge 1RB Left	16.48	/	/	15.13	/	/	<=34.77	Pass
		Edge 1RB Right	16.41	/	/	15.06	/	/	<=34.77	Pass



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		Outer_Full	14.81	/	/	13.46	/	/	<=34.77	Pass
		Inner_Full	16.85	/	/	15.50	/	/	<=34.77	Pass
		Inner_1RB_Left	16.46	/	/	15.11	/	/	<=34.77	Pass
		Inner_1RB_Right	16.45	/	/	15.10	/	/	<=34.77	Pass
	782	Edge_1RB_Left	15.93	/	/	14.58	/	/	<=34.77	Pass
		Edge_1RB_Right	15.42	/	/	14.07	/	/	<=34.77	Pass
		Outer_Full	14.06	/	/	12.71	/	/	<=34.77	Pass
		Inner_Full	16.57	/	/	15.22	/	/	<=34.77	Pass
		Inner_1RB_Left	15.25	/	/	13.90	/	/	<=34.77	Pass
		Inner_1RB_Right	16.31	/	/	14.96	/	/	<=34.77	Pass
	784.5	Edge_1RB_Left	16.23	/	/	14.88	/	/	<=34.77	Pass
		Edge_1RB_Right	15.61	/	/	14.26	/	/	<=34.77	Pass
		Outer_Full	14.37	/	/	13.02	/	/	<=34.77	Pass
		Inner_Full	16.64	/	/	15.29	/	/	<=34.77	Pass
		Inner_1RB_Left	16.19	/	/	14.84	/	/	<=34.77	Pass
		Inner_1RB_Right	16.04	/	/	14.69	/	/	<=34.77	Pass
Note1: Antenna Gain: Ant1: 0.80dBi; Note2: ERP=Conducted Power+Antenna Gain-2.15										

1.1.2 15_S_10M_NTNV_ERP

5G NR n13 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	782	Edge_1RB_Left	22.28	/	/	20.93	/	/	<=34.77	Pass
		Edge_1RB_Right	22.40	/	/	21.05	/	/	<=34.77	Pass
		Outer_Full	22.57	/	/	21.22	/	/	<=34.77	Pass
		Inner_Full	22.79	/	/	21.44	/	/	<=34.77	Pass
		Inner_1RB_Left	22.67	/	/	21.32	/	/	<=34.77	Pass
		Inner_1RB_Right	23.08	/	/	21.73	/	/	<=34.77	Pass
DFT-s-OFDM QPSK	782	Edge_1RB_Left	22.03	/	/	20.68	/	/	<=34.77	Pass
		Edge_1RB_Right	22.07	/	/	20.72	/	/	<=34.77	Pass
		Outer_Full	20.58	/	/	19.23	/	/	<=34.77	Pass
		Inner_Full	23.01	/	/	21.66	/	/	<=34.77	Pass
		Inner_1RB_Left	23.22	/	/	21.87	/	/	<=34.77	Pass
		Inner_1RB_Right	23.11	/	/	21.76	/	/	<=34.77	Pass
DFT-s-OFDM 16 QAM	782	Edge_1RB_Left	20.66	/	/	19.31	/	/	<=34.77	Pass
		Edge_1RB_Right	21.15	/	/	19.80	/	/	<=34.77	Pass
		Outer_Full	18.92	/	/	17.57	/	/	<=34.77	Pass
		Inner_Full	22.14	/	/	20.79	/	/	<=34.77	Pass
		Inner_1RB_Left	22.46	/	/	21.11	/	/	<=34.77	Pass
		Inner_1RB_Right	22.02	/	/	20.67	/	/	<=34.77	Pass
DFT-s-OFDM 64 QAM	782	Edge_1RB_Left	20.73	/	/	19.38	/	/	<=34.77	Pass
		Edge_1RB_Right	20.41	/	/	19.06	/	/	<=34.77	Pass
		Outer_Full	19.12	/	/	17.77	/	/	<=34.77	Pass
		Inner_Full	20.61	/	/	19.26	/	/	<=34.77	Pass
		Inner_1RB_Left	20.58	/	/	19.23	/	/	<=34.77	Pass
		Inner_1RB_Right	20.67	/	/	19.32	/	/	<=34.77	Pass
DFT-s-OFDM 256 QAM	782	Edge_1RB_Left	18.10	/	/	16.75	/	/	<=34.77	Pass
		Edge_1RB_Right	18.08	/	/	16.73	/	/	<=34.77	Pass
		Outer_Full	15.98	/	/	14.63	/	/	<=34.77	Pass



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		Inner Full	18.36	/	/	17.01	/	/	<=34.77	Pass
		Inner 1RB Left	18.39	/	/	17.04	/	/	<=34.77	Pass
		Inner 1RB Right	18.11	/	/	16.76	/	/	<=34.77	Pass
CP-OFDM QPSK	782	Edge 1RB Left	20.22	/	/	18.87	/	/	<=34.77	Pass
		Edge 1RB Right	20.24	/	/	18.89	/	/	<=34.77	Pass
		Outer Full	20.12	/	/	18.77	/	/	<=34.77	Pass
		Inner Full	21.48	/	/	20.13	/	/	<=34.77	Pass
		Inner 1RB Left	21.57	/	/	20.22	/	/	<=34.77	Pass
		Inner 1RB Right	21.44	/	/	20.09	/	/	<=34.77	Pass
CP-OFDM 16 QAM	782	Edge 1RB Left	19.83	/	/	18.48	/	/	<=34.77	Pass
		Edge 1RB Right	19.99	/	/	18.64	/	/	<=34.77	Pass
		Outer Full	18.08	/	/	16.73	/	/	<=34.77	Pass
		Inner Full	21.15	/	/	19.80	/	/	<=34.77	Pass
		Inner 1RB Left	20.89	/	/	19.54	/	/	<=34.77	Pass
		Inner 1RB Right	21.08	/	/	19.73	/	/	<=34.77	Pass
CP-OFDM 64 QAM	782	Edge 1RB Left	19.30	/	/	17.95	/	/	<=34.77	Pass
		Edge 1RB Right	19.39	/	/	18.04	/	/	<=34.77	Pass
		Outer Full	17.53	/	/	16.18	/	/	<=34.77	Pass
		Inner Full	19.81	/	/	18.46	/	/	<=34.77	Pass
		Inner 1RB Left	19.66	/	/	18.31	/	/	<=34.77	Pass
		Inner 1RB Right	19.60	/	/	18.25	/	/	<=34.77	Pass
CP-OFDM 256 QAM	782	Edge 1RB Left	16.74	/	/	15.39	/	/	<=34.77	Pass
		Edge 1RB Right	16.35	/	/	15.00	/	/	<=34.77	Pass
		Outer Full	14.77	/	/	13.42	/	/	<=34.77	Pass
		Inner Full	16.68	/	/	15.33	/	/	<=34.77	Pass
		Inner 1RB Left	16.67	/	/	15.32	/	/	<=34.77	Pass
		Inner 1RB Right	16.42	/	/	15.07	/	/	<=34.77	Pass

Note1: Antenna Gain: Ant1: 0.80dBi;

Note2: ERP=Conducted Power+Antenna Gain-2.15

2. Frequency Stability

2.1 Test Result

2.1.1 15_S_10M

5G NR n13 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	782	Outer_Full	20	LV	-6.20	-0.0079	>=-2.5 & <=2.5	Pass
				HV	-2.90	-0.0037	>=-2.5 & <=2.5	Pass
			-30	NV	-1.60	-0.0020	>=-2.5 & <=2.5	Pass
			-20	NV	-7.50	-0.0096	>=-2.5 & <=2.5	Pass
			-10	NV	-3.30	-0.0042	>=-2.5 & <=2.5	Pass
			0	NV	-3.90	-0.0050	>=-2.5 & <=2.5	Pass
			10	NV	-2.50	-0.0032	>=-2.5 & <=2.5	Pass
			20	NV	-4.50	-0.0058	>=-2.5 & <=2.5	Pass
			30	NV	-4.10	-0.0052	>=-2.5 & <=2.5	Pass
			40	NV	1.00	0.0013	>=-2.5 & <=2.5	Pass
			50	NV	-0.50	-0.0006	>=-2.5 & <=2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 15_S_5M_NTNV

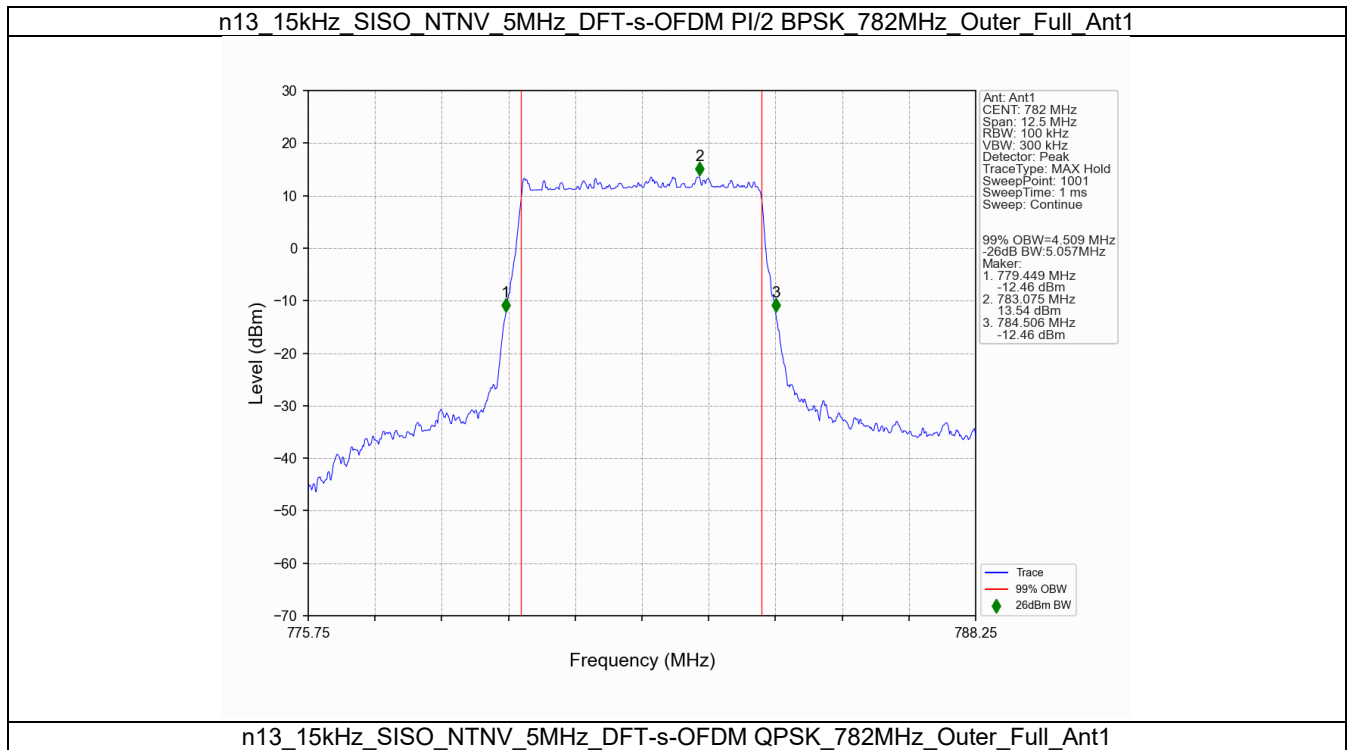
5G NR n13 SCS=15kHz SISO 5MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	782	Outer_Full	4.51	5.06	/	Pass
DFT-s-OFDM QPSK	782	Outer_Full	4.49	5.00	/	Pass
DFT-s-OFDM 16 QAM	782	Outer_Full	4.51	4.99	/	Pass
DFT-s-OFDM 64 QAM	782	Outer_Full	4.50	4.98	/	Pass
DFT-s-OFDM 256 QAM	782	Outer_Full	4.51	5.05	/	Pass
CP-OFDM QPSK	782	Outer_Full	4.49	5.01	/	Pass
CP-OFDM 16 QAM	782	Outer_Full	4.51	5.05	/	Pass
CP-OFDM 64 QAM	782	Outer_Full	4.49	4.94	/	Pass
CP-OFDM 256 QAM	782	Outer_Full	4.50	5.01	/	Pass

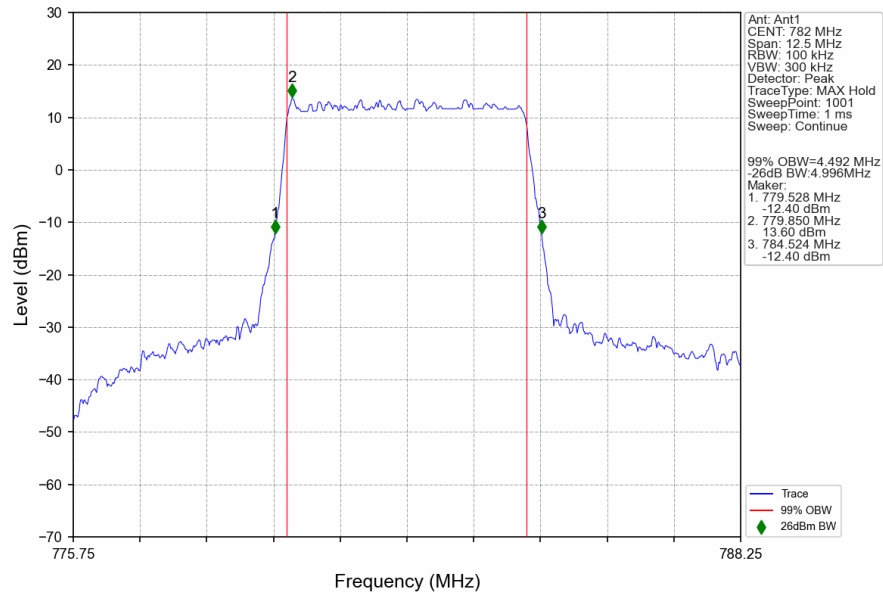
3.1.2 15_S_10M_NTNV

5G NR n13 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	782	Outer_Full	8.87	9.43	/	Pass
DFT-s-OFDM QPSK	782	Outer_Full	8.90	9.52	/	Pass
DFT-s-OFDM 16 QAM	782	Outer_Full	8.91	9.47	/	Pass
DFT-s-OFDM 64 QAM	782	Outer_Full	8.93	9.49	/	Pass
DFT-s-OFDM 256 QAM	782	Outer_Full	8.89	9.46	/	Pass
CP-OFDM QPSK	782	Outer_Full	9.25	9.89	/	Pass
CP-OFDM 16 QAM	782	Outer_Full	9.24	9.88	/	Pass
CP-OFDM 64 QAM	782	Outer_Full	9.21	9.83	/	Pass
CP-OFDM 256 QAM	782	Outer_Full	9.25	9.88	/	Pass

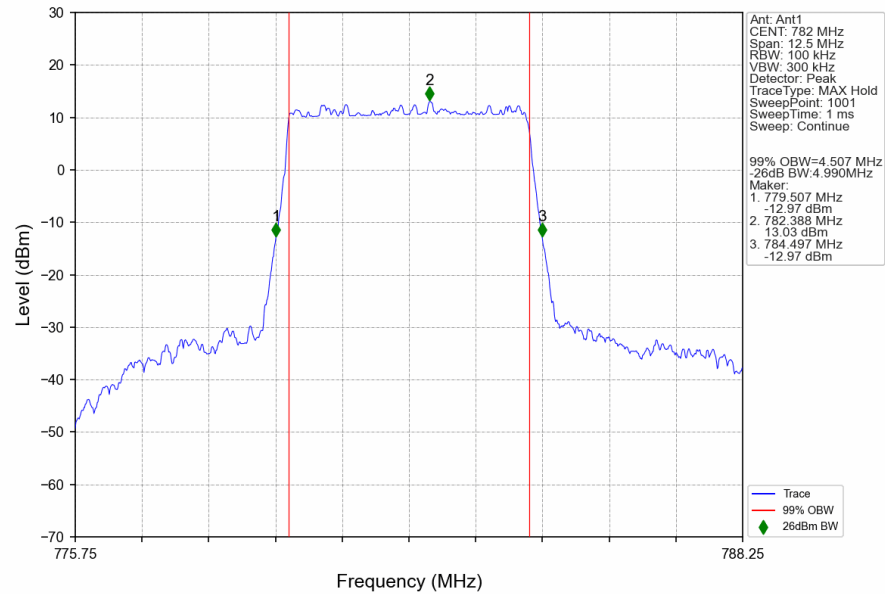
3.2 Test Graph

3.2.1 15_S_5M_NTNV

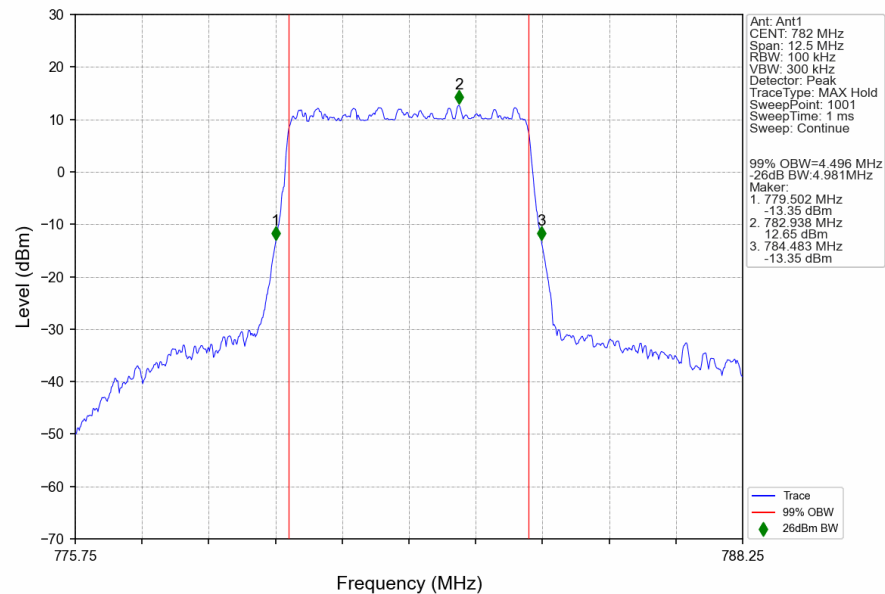




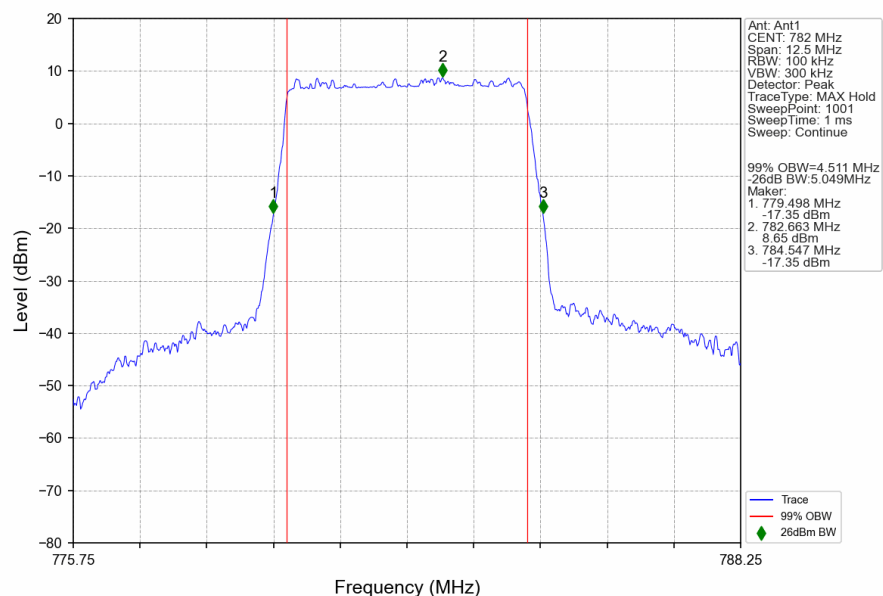
n13_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM 16 QAM_782MHz_Outer_Full_Ant1



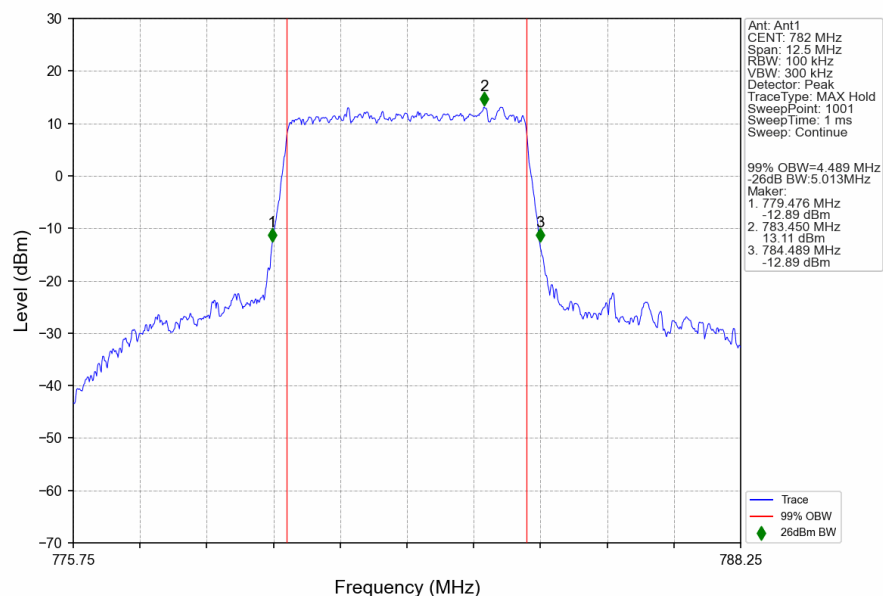
n13_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM 64 QAM_782MHz_Outer_Full_Ant1



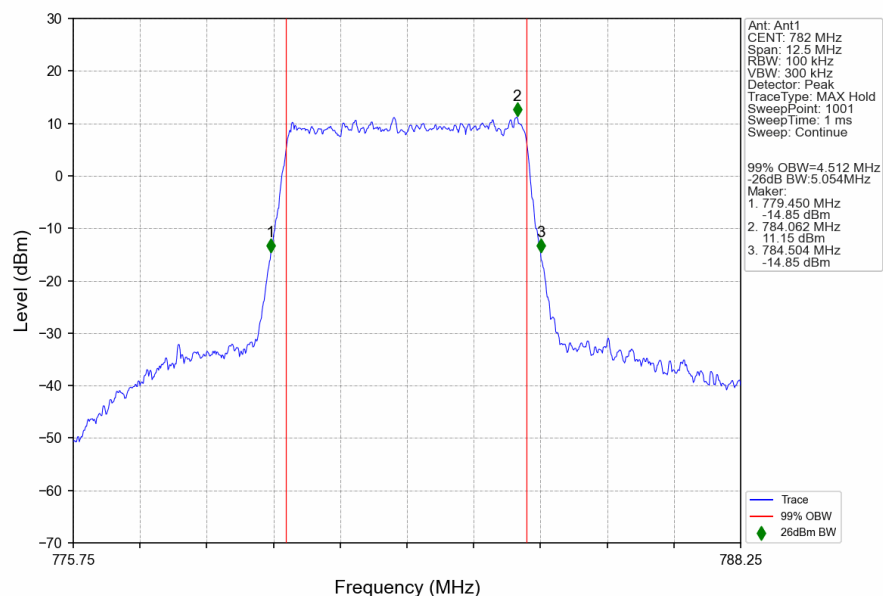
n13_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM 256 QAM_782MHz_Outer_Full_Ant1



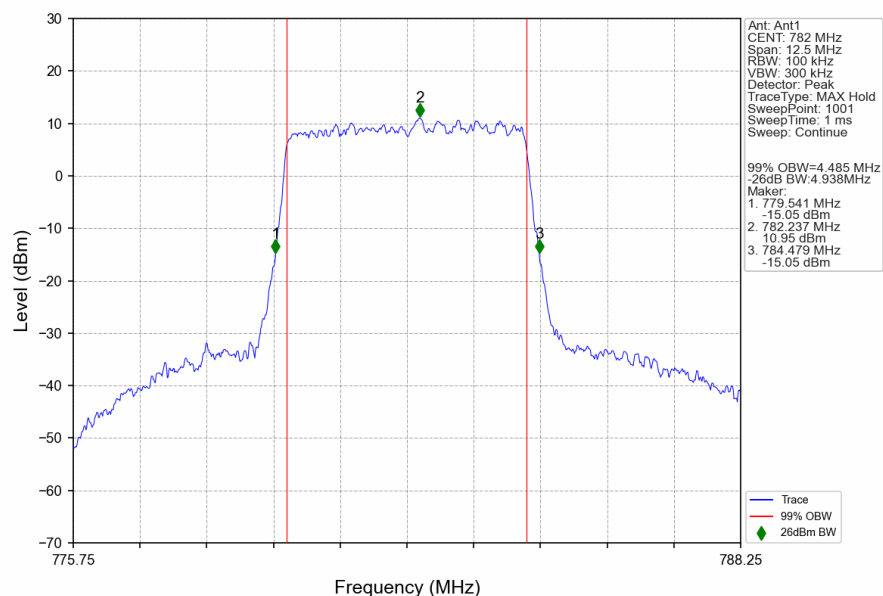
n13_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_782MHz_Outer_Full_Ant1



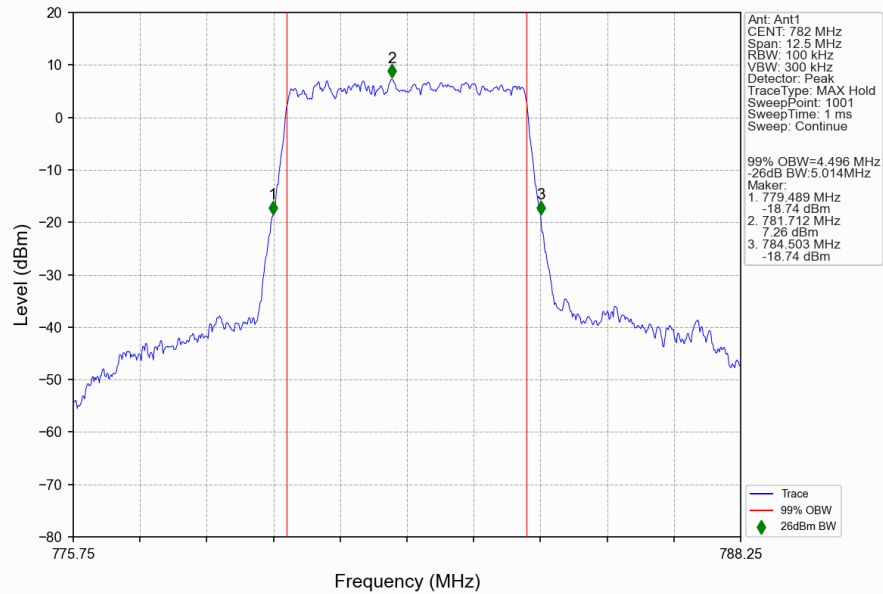
n13_15kHz_SISO_NTNV_5MHz_CP-OFDM_16_QAM_782MHz_Outer_Full_Ant1



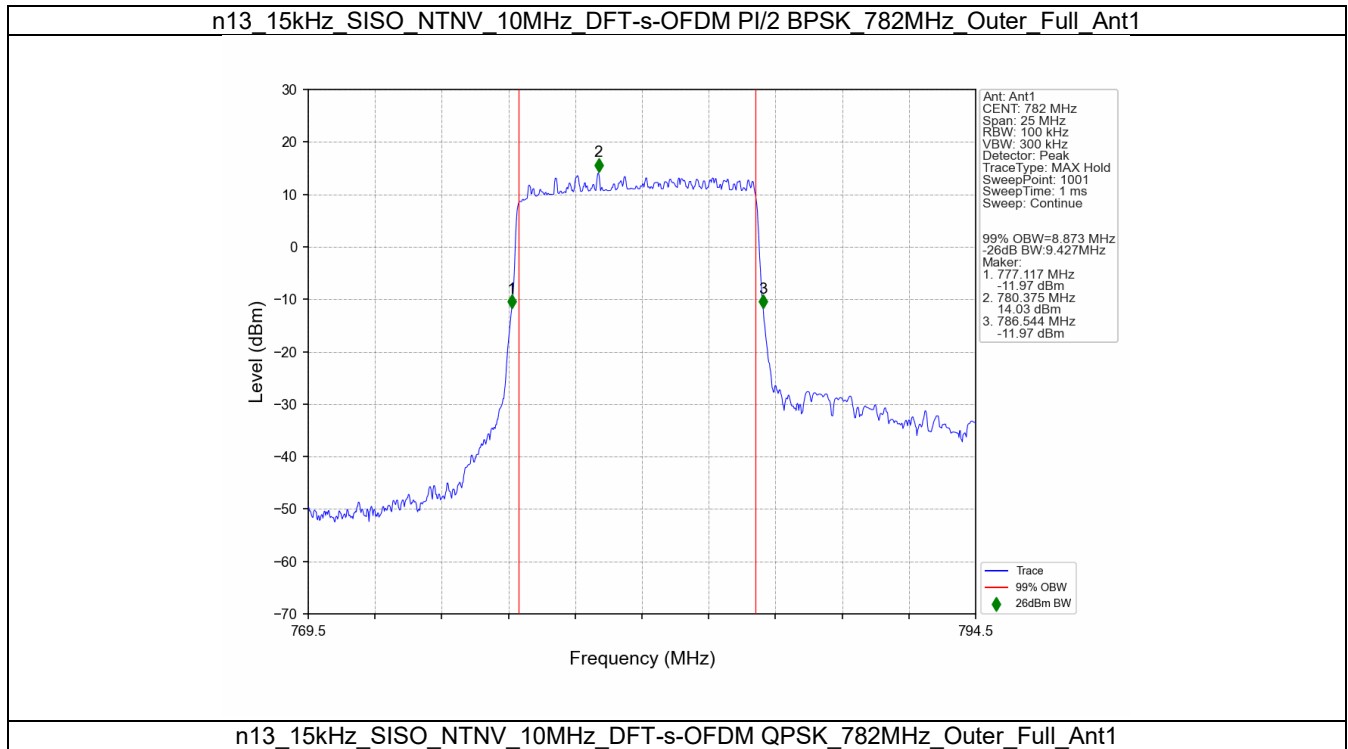
n13_15kHz_SISO_NTNV_5MHz_CP-OFDM_64_QAM_782MHz_Outer_Full_Ant1

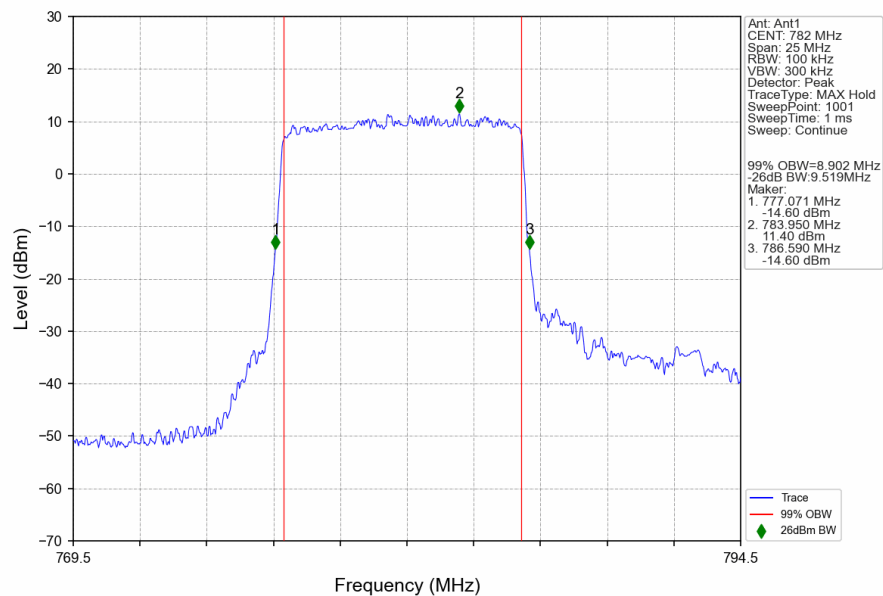


n13_15kHz_SISO_NTNV_5MHz_CP-OFDM 256 QAM_782MHz_Outer_Full_Ant1

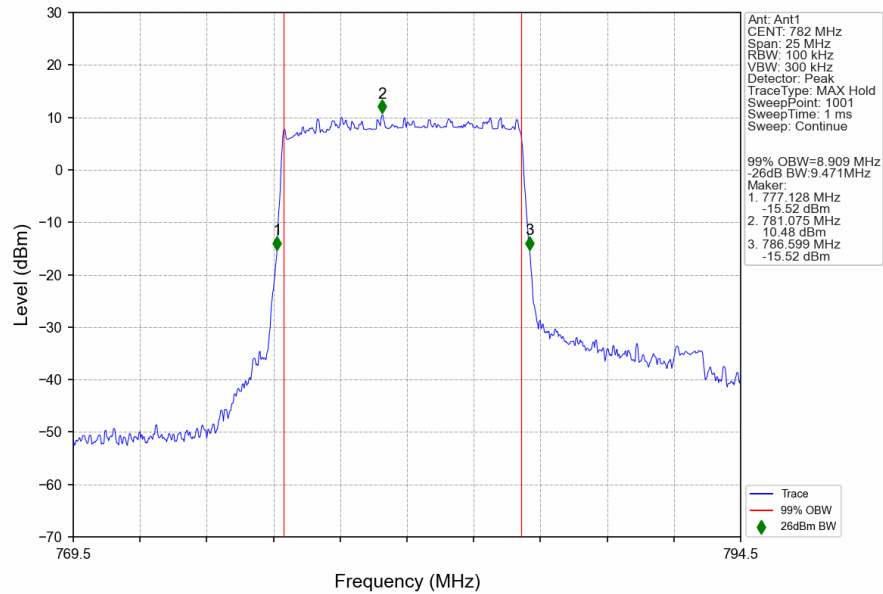


3.2.2 15_S_10M_NTNV

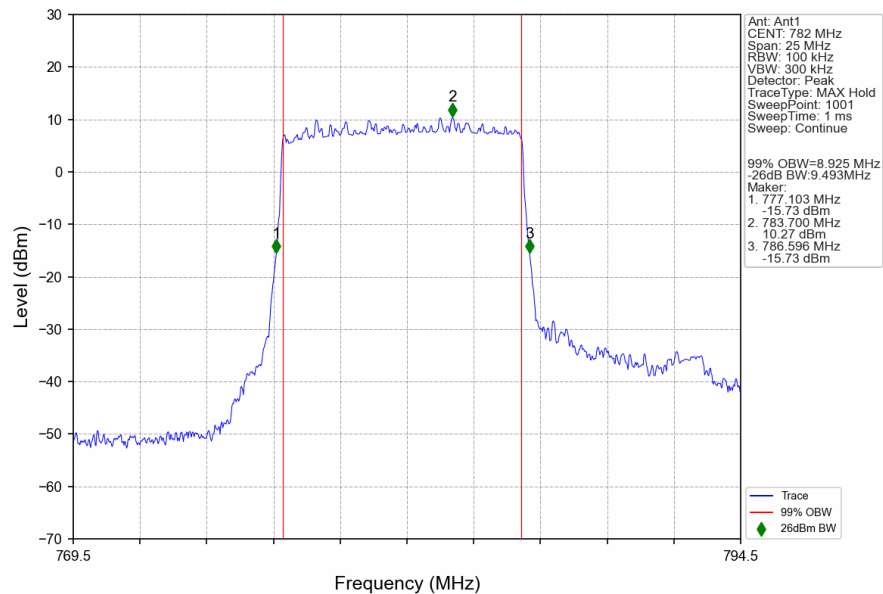




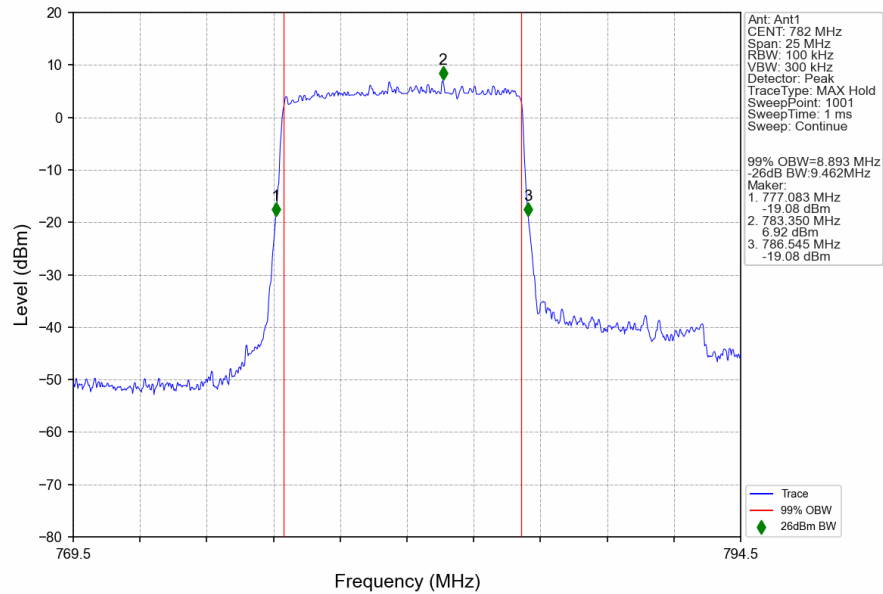
n13_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_16 QAM_782MHz_Outer_Full_Ant1



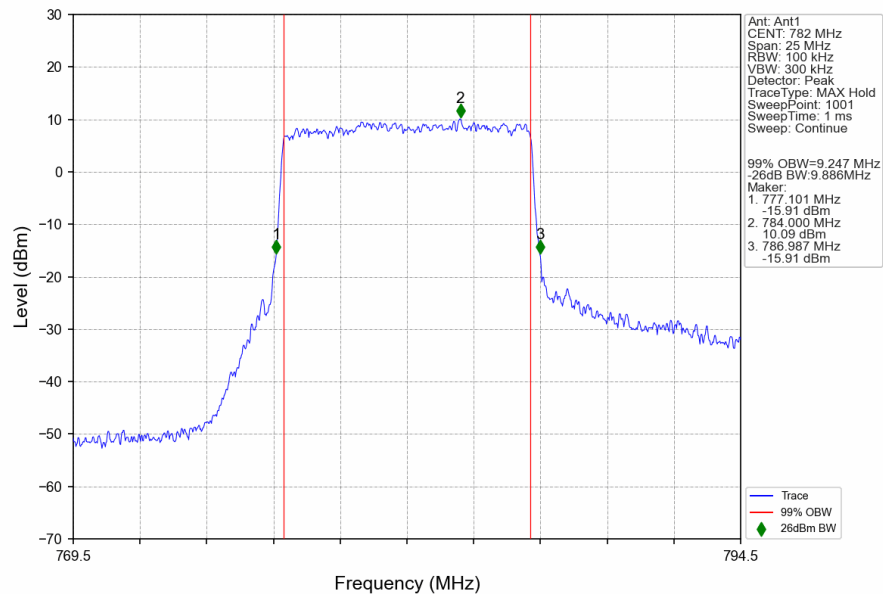
n13_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_64 QAM_782MHz_Outer_Full_Ant1



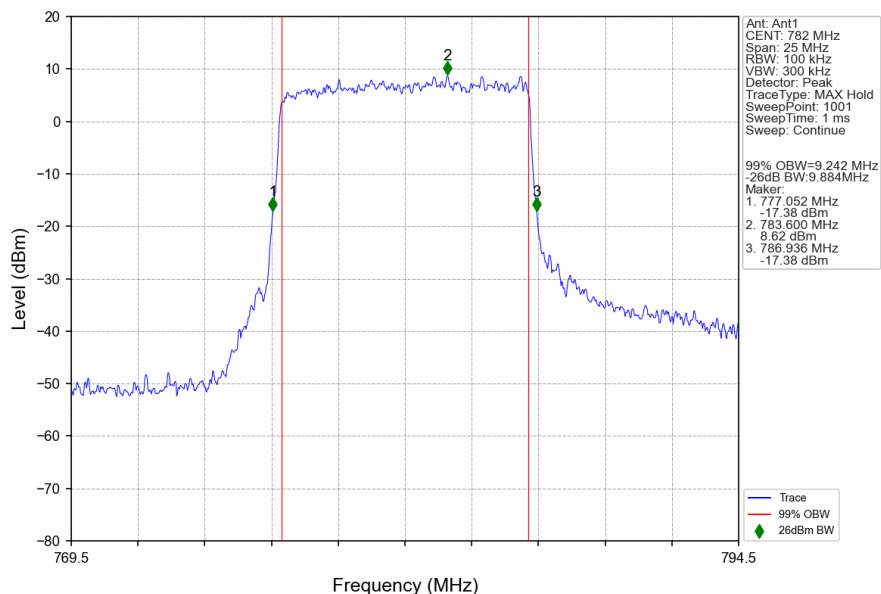
n13_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 256 QAM_782MHz_Outer_Full_Ant1



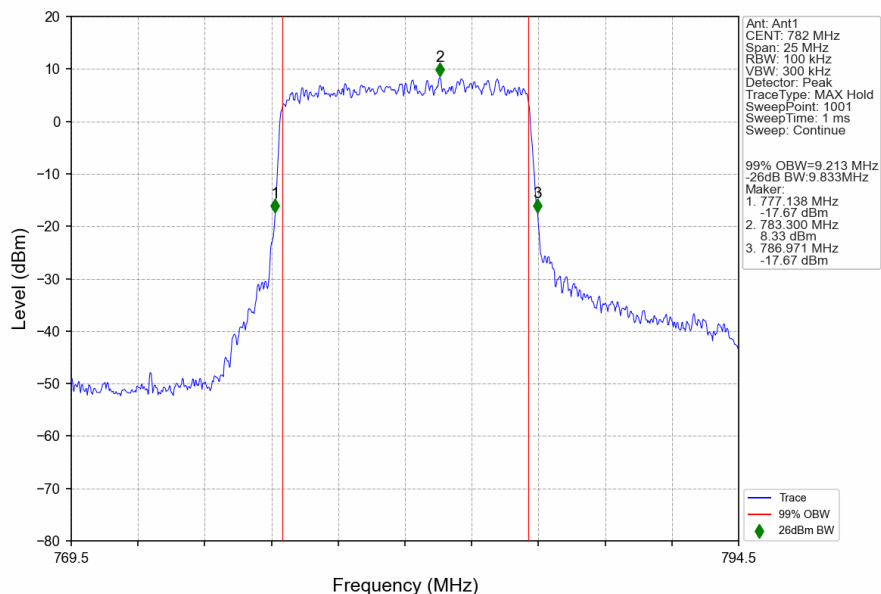
n13_15kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_782MHz_Outer_Full_Ant1



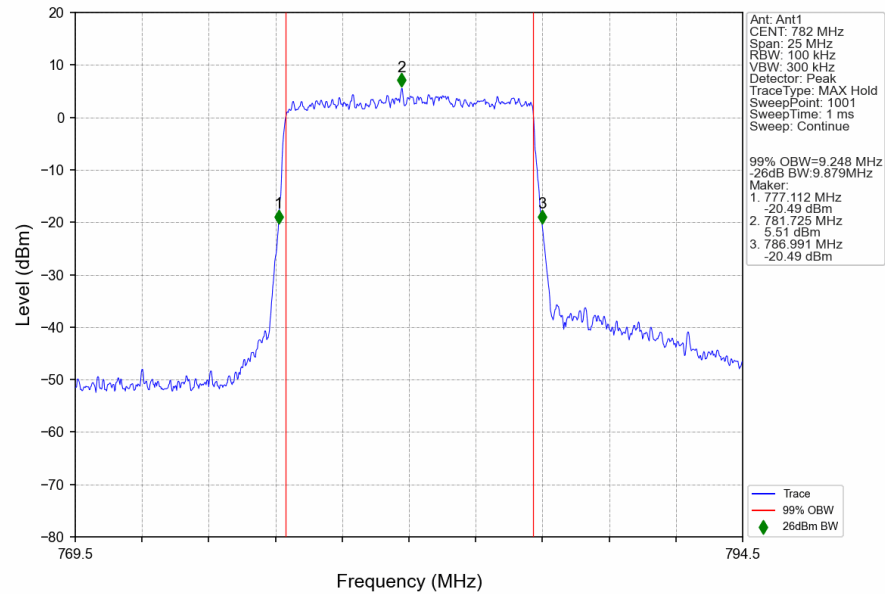
n13_15kHz_SISO_NTNV_10MHz_CP-OFDM 16 QAM_782MHz_Outer_Full_Ant1



n13_15kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_782MHz_Outer_Full_Ant1



n13_15kHz_SISO_NTNV_10MHz_CP-OFDM_256_QAM_782MHz_Outer_Full_Ant1





4. Peak-Average Ratio

4.1 Test Result

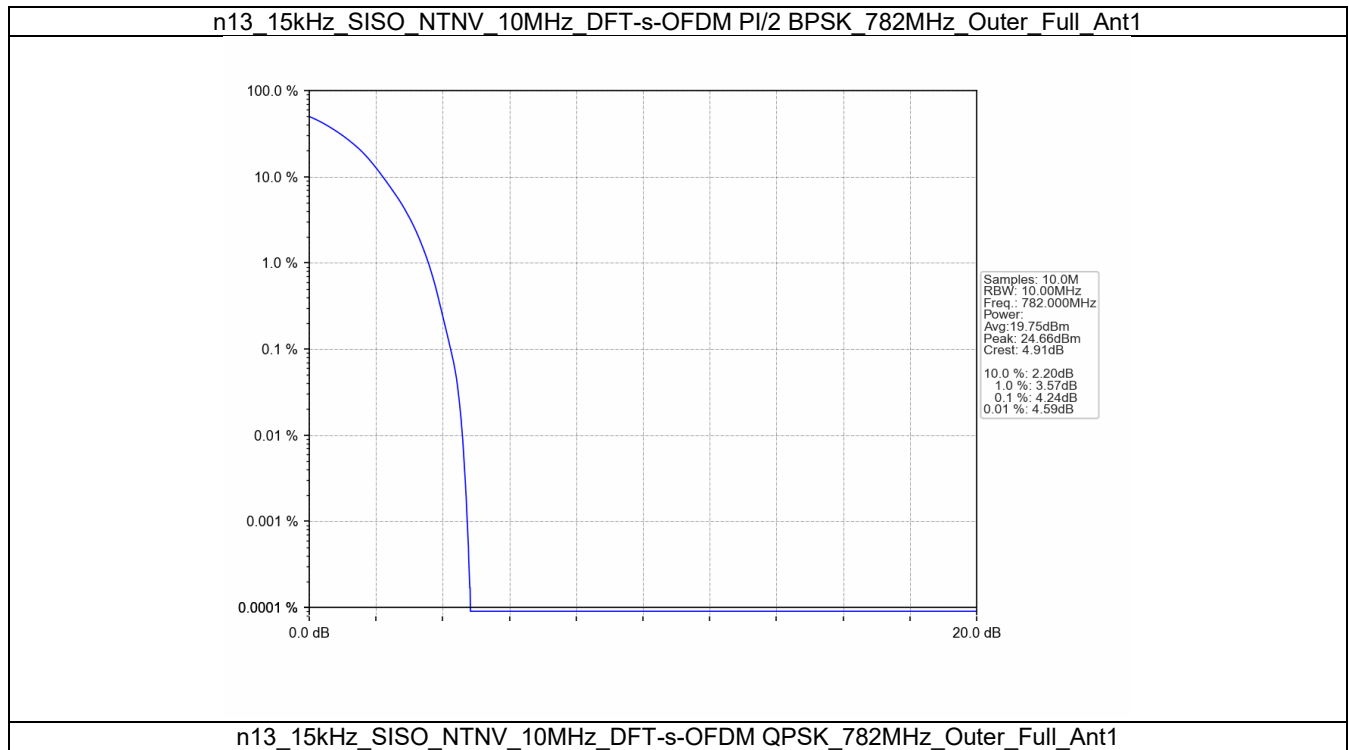
4.1.1 15_S_10M_NTNV

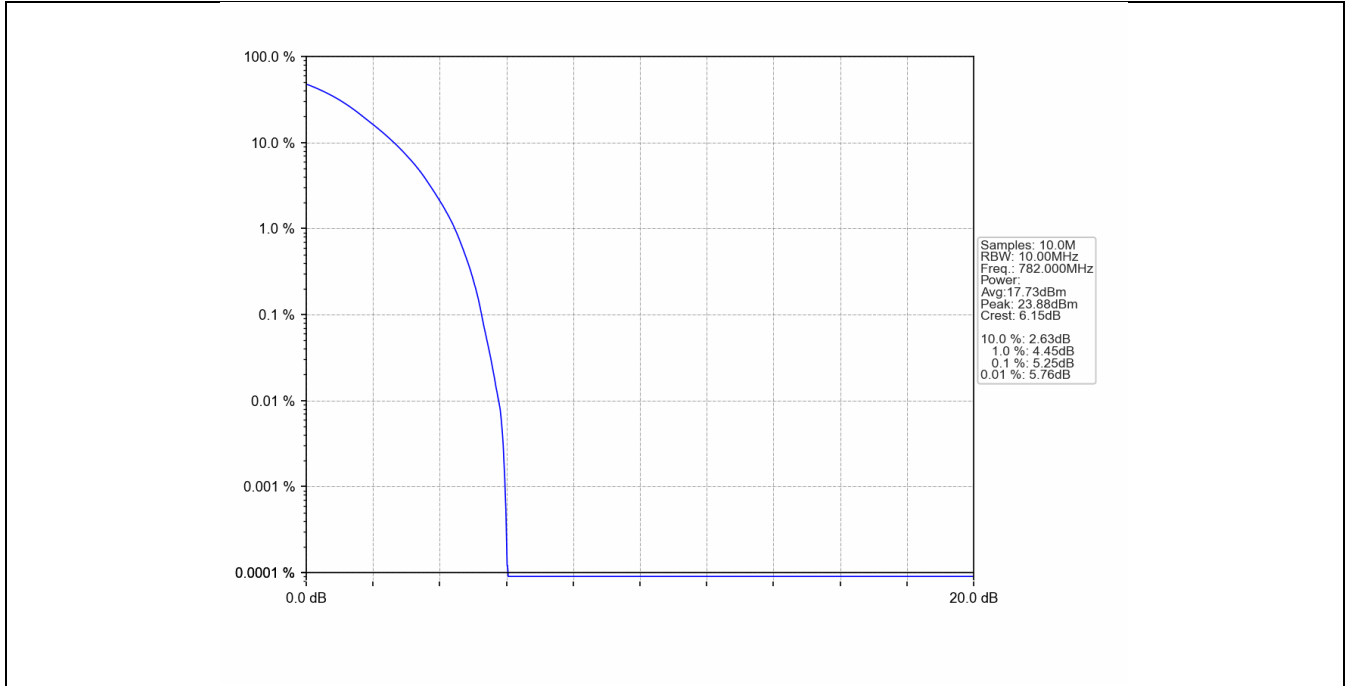
5G NR n13 SCS=15kHz SISO 10MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	782	Outer_Full	4.24	/	/	<=13	Pass
DFT-s-OFDM QPSK	782	Outer_Full	5.25	/	/	<=13	Pass
CP-OFDM QPSK	782	Outer_Full	7.30	/	/	<=13	Pass



4.2 Test Graph

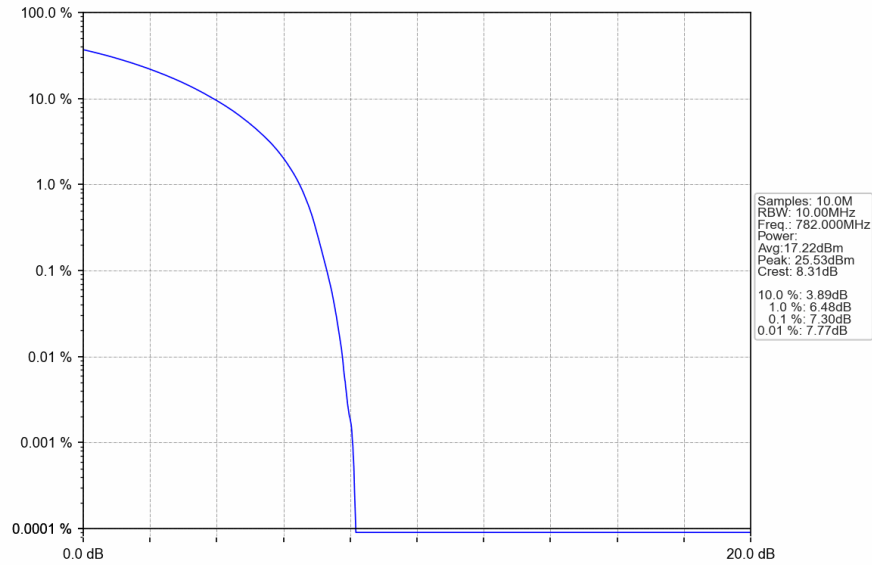
4.2.1 15_S_10M_NTNV







n13_15kHz_SISO_NTNV_10MHz_CP-OFDM_QPSK_782MHz_Outer_Full_Ant1





5. Spurious Emission

5.1 Test Result

5.1.1 15_S_5M_NTNV

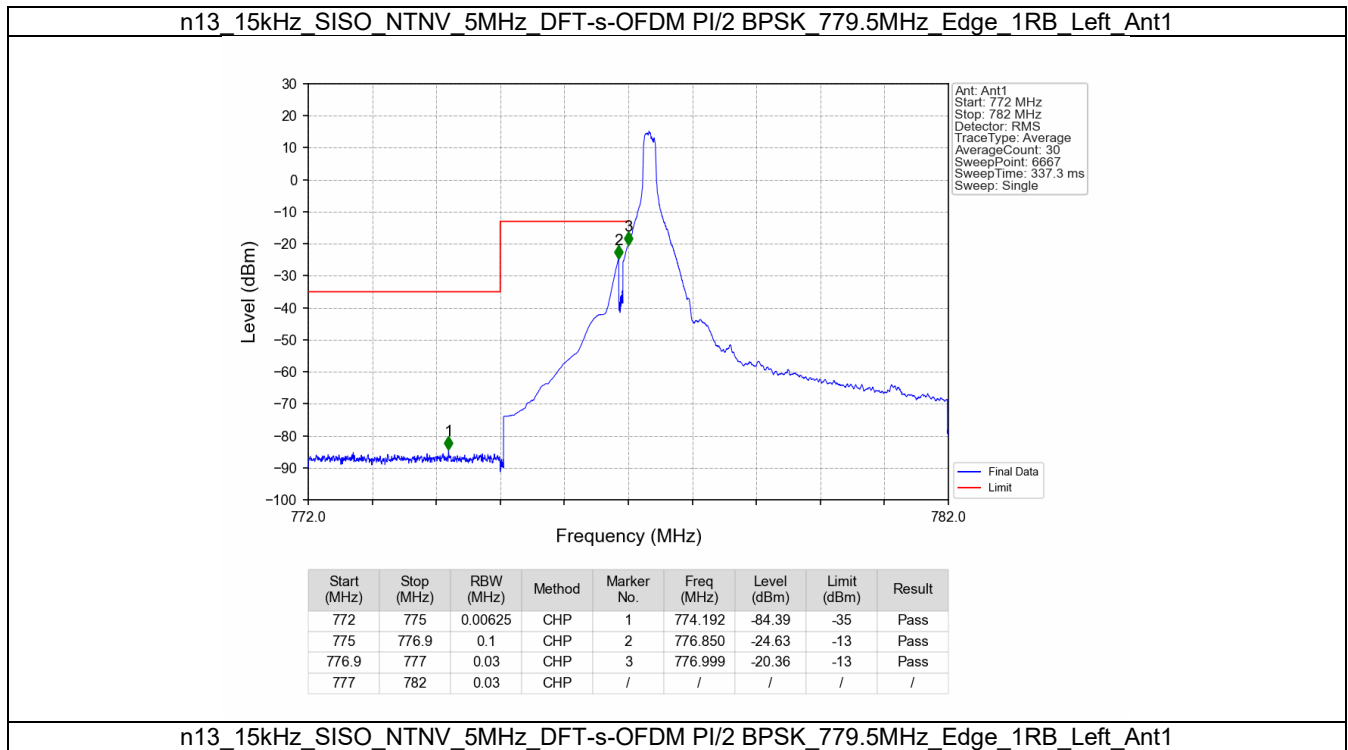
5G NR n13 SCS=15kHz SISO 5MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	779.5	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
	782	Edge_1RB_Left	Refer To Test Graph				Pass
		Edge_1RB_Right	Refer To Test Graph				Pass
	784.5	Edge_1RB_Right	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
DFT-s-OFDM QPSK	779.5	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
	782	Edge_1RB_Left	Refer To Test Graph				Pass
		Edge_1RB_Right	Refer To Test Graph				Pass
	784.5	Edge_1RB_Right	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
CP-OFDM QPSK	779.5	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
	782	Edge_1RB_Left	Refer To Test Graph				Pass
		Edge_1RB_Right	Refer To Test Graph				Pass
	784.5	Edge_1RB_Right	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass

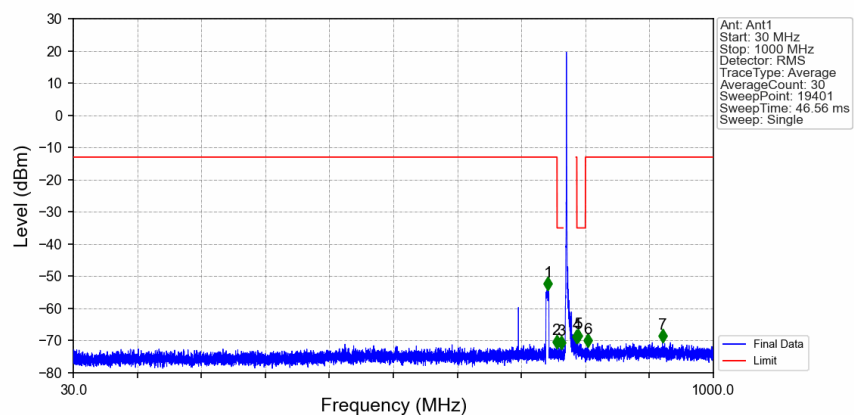
5.1.2 15_S_10M_NTNV

5G NR n13 SCS=15kHz SISO 10MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	782	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
	782	Edge_1RB_Right	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
DFT-s-OFDM QPSK	782	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
	782	Edge_1RB_Right	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
CP-OFDM QPSK	782	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
	782	Edge_1RB_Right	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass

5.2 Test Graph

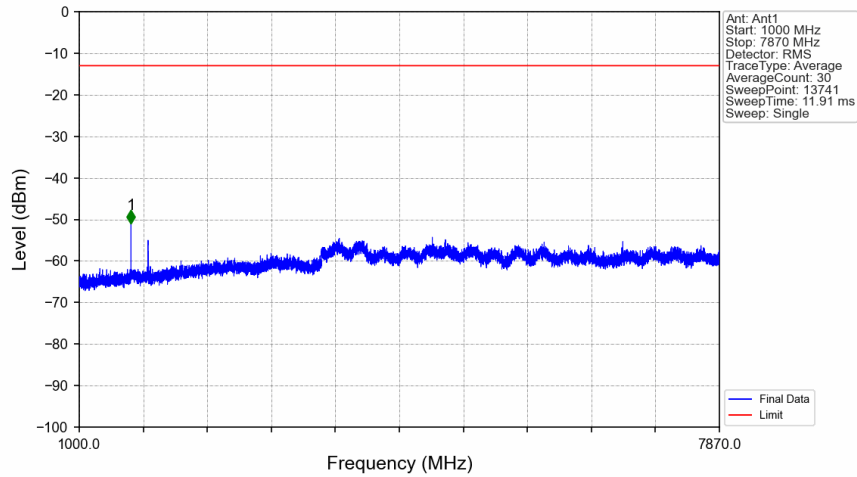
5.2.1 15_S_5M_NTNV





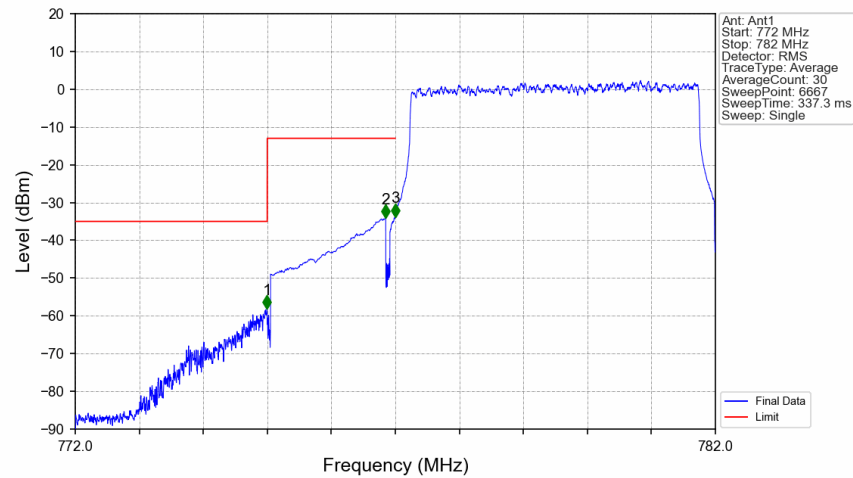
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	758	0.1	/	1	749.300	-53.96	-13	Pass
758	763	0.1	/	2	762.300	-72.04	-13	Pass
763	775	0.1	/	3	769.400	-72.22	-35	Pass
775	792	0.1	/	/	/	/	/	/
792	793	0.1	/	4	793.000	-70.38	-13	Pass
793	806	0.1	/	5	794.450	-70.14	-35	Pass
806	810	0.1	/	6	809.250	-71.74	-13	Pass
810	1000	0.1	/	7	922.700	-70.30	-13	Pass

n13_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK 779.5MHz_Edge_1RB_Left_Ant1



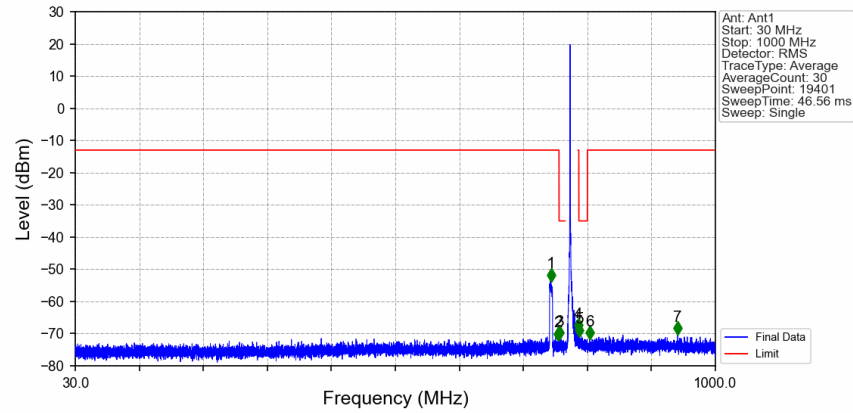
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	7870	1	/	1	1555.000	-50.97	-13	Pass

n13_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK 779.5MHz_Outer_Full_Ant1



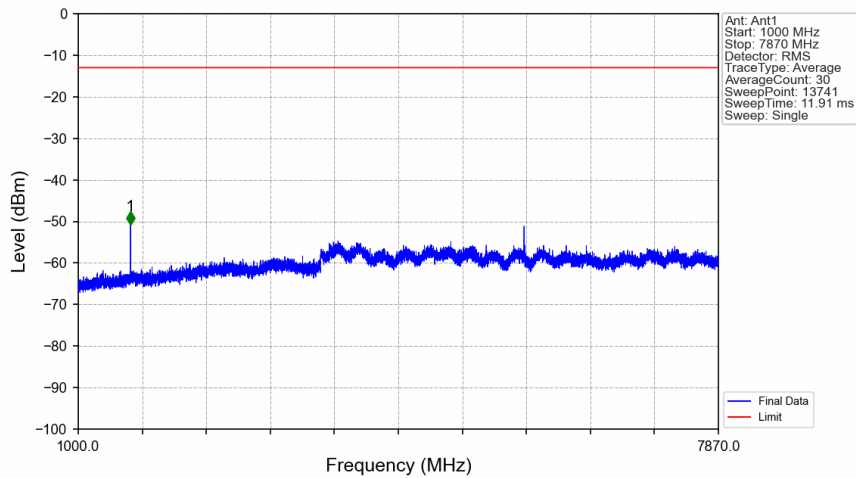
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	CHP	1	774.996	-58.08	-35	Pass
775	776.9	0.1	CHP	2	776.850	-34.00	-13	Pass
776.9	777	0.03	CHP	3	776.995	-33.74	-13	Pass
777	782	0.03	CHP	/	/	/	/	/

n13_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_782MHz_Edge_1RB_Left_Ant1



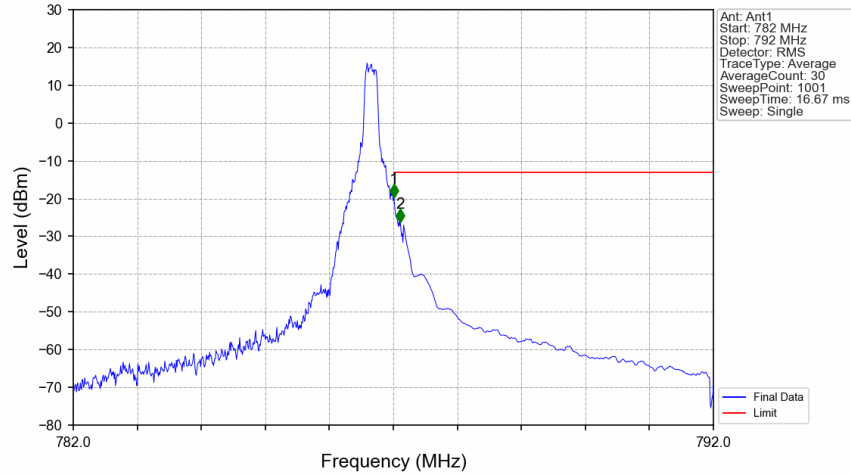
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	758	0.1	/	1	750.800	-53.45	-13	Pass
758	763	0.1	/	2	762.000	-71.75	-13	Pass
763	775	0.1	/	3	763.550	-71.44	-35	Pass
775	792	0.1	/	/	/	/	/	/
792	793	0.1	/	4	792.150	-69.04	-13	Pass
793	806	0.1	/	5	793.800	-70.59	-35	Pass
806	810	0.1	/	6	809.450	-71.40	-13	Pass
810	1000	0.1	/	7	942.800	-69.95	-13	Pass

n13_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_782MHz_Edge_1RB_Left_Ant1



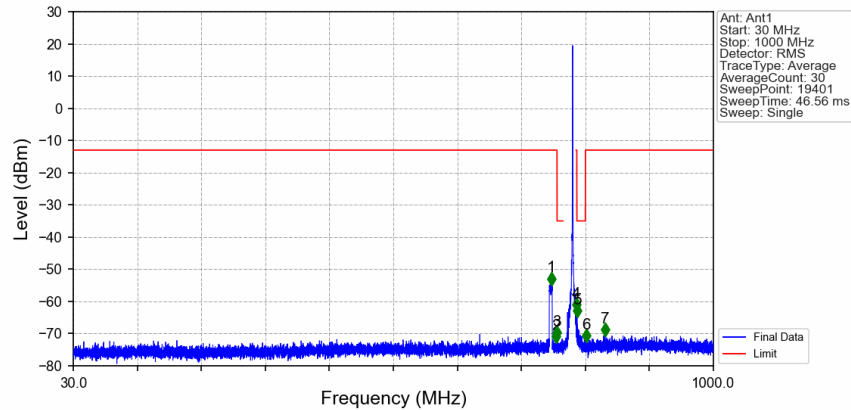
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	7870	1	/	1	1559.500	-50.72	-13	Pass

n13_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_784.5MHz_Edge_1RB_Right_Ant1



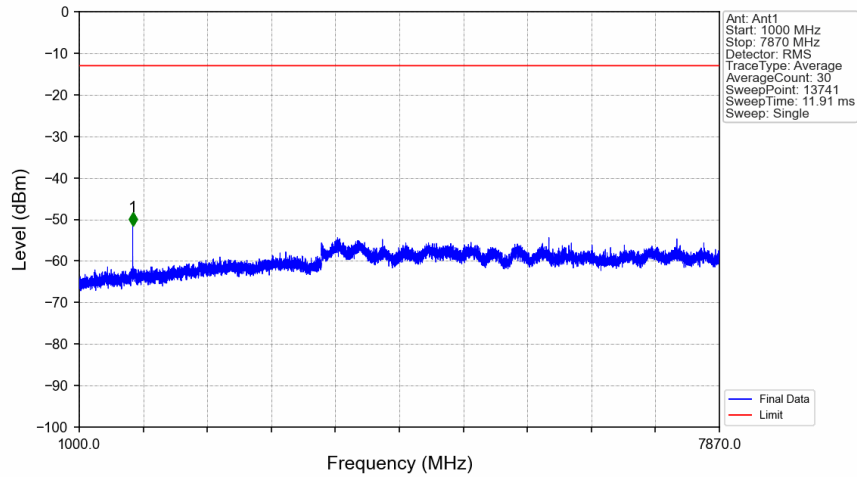
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
782	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	1	787.010	-19.67	-13	Pass
787.1	792	0.1	CHP	2	787.110	-26.33	-13	Pass

n13_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_784.5MHz_Edge_1RB_Right_Ant1



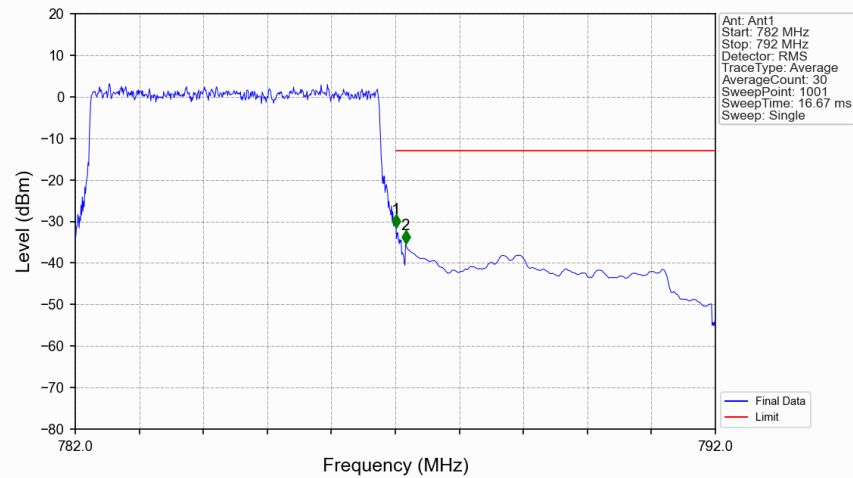
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	758	0.1	/	1	754.650	-54.66	-13	Pass
758	763	0.1	/	2	761.300	-72.56	-13	Pass
763	775	0.1	/	3	763.150	-71.37	-35	Pass
775	792	0.1	/	/	/	/	/	/
792	793	0.1	/	4	792.150	-62.73	-13	Pass
793	806	0.1	/	5	793.350	-64.61	-35	Pass
806	810	0.1	/	6	807.700	-72.38	-13	Pass
810	1000	0.1	/	7	835.850	-70.52	-13	Pass

n13_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_784.5MHz_Edge_1RB_Right_Ant1



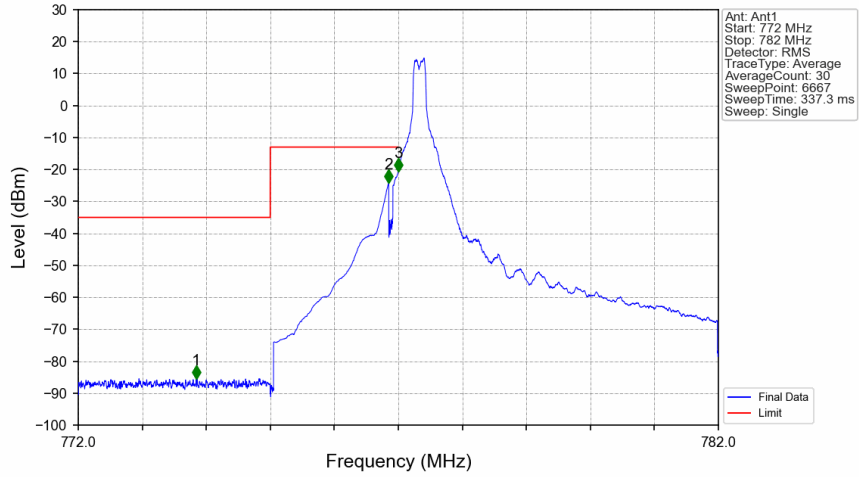
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	7870	1	/	1	1573.000	-51.50	-13	Pass

n13_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_784.5MHz_Outer_Full_Ant1



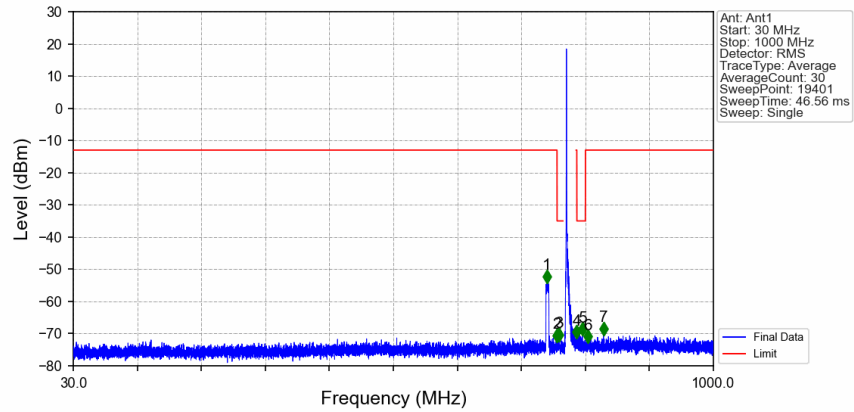
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
782	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	1	787.010	-31.42	-13	Pass
787.1	792	0.1	CHP	2	787.160	-35.34	-13	Pass

n13_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_QPSK_779.5MHz_Edge_1RB_Left_Ant1



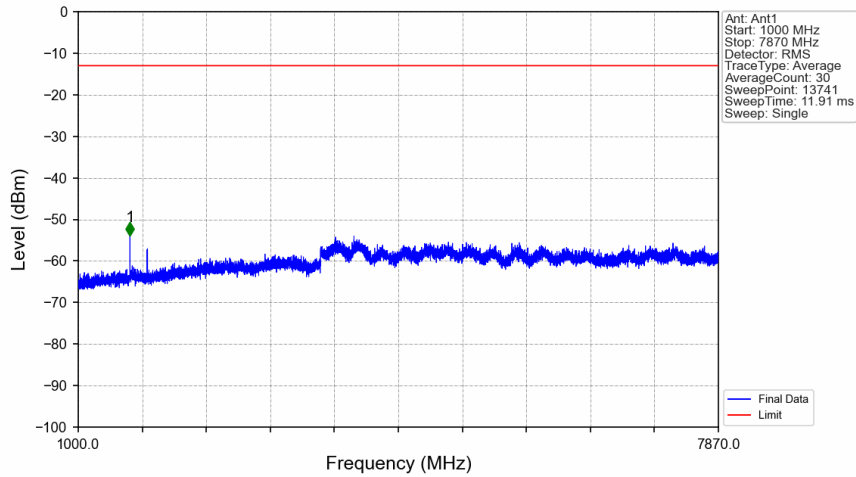
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	CHP	1	773.844	-85.39	-35	Pass
775	776.9	0.1	CHP	2	776.850	-24.27	-13	Pass
776.9	777	0.03	CHP	3	776.999	-20.63	-13	Pass
777	782	0.03	CHP	/	/	/	/	/

n13_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_QPSK_779.5MHz_Edge_1RB_Left_Ant1



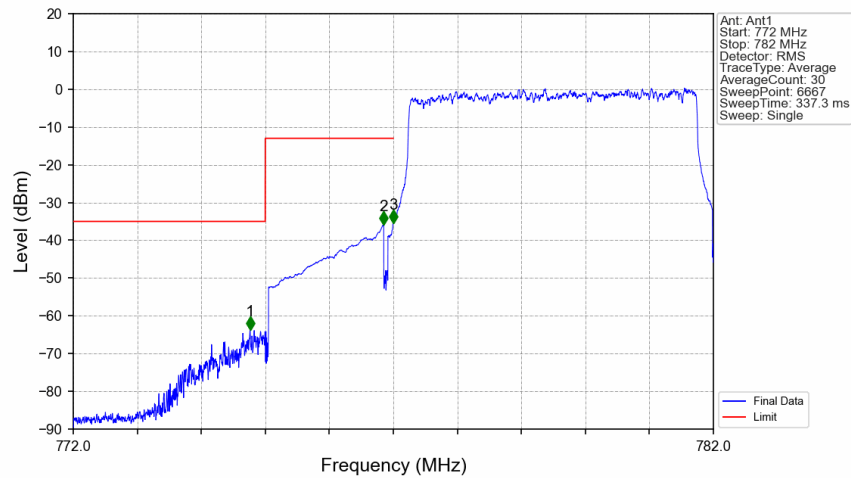
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	758	0.1	/	1	747.650	-53.94	-13	Pass
758	763	0.1	/	2	762.550	-72.28	-13	Pass
763	775	0.1	/	3	766.200	-72.05	-35	Pass
775	792	0.1	/	/	/	/	/	/
792	793	0.1	/	4	792.600	-71.26	-13	Pass
793	806	0.1	/	5	801.450	-70.24	-35	Pass
806	810	0.1	/	6	809.250	-72.55	-13	Pass
810	1000	0.1	/	7	833.450	-70.14	-13	Pass

n13_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_QPSK_779.5MHz_Edge_1RB_Left_Ant1



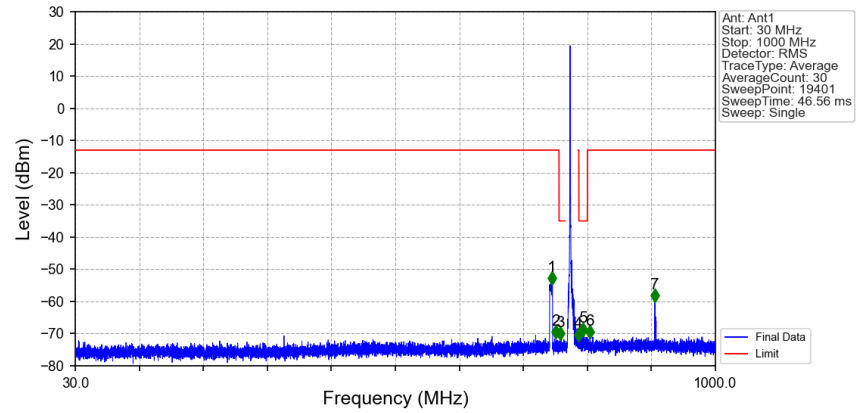
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	7870	1	/	1	1554.500	-53.85	-13	Pass

n13_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_QPSK_779.5MHz_Outer_Full_Ant1



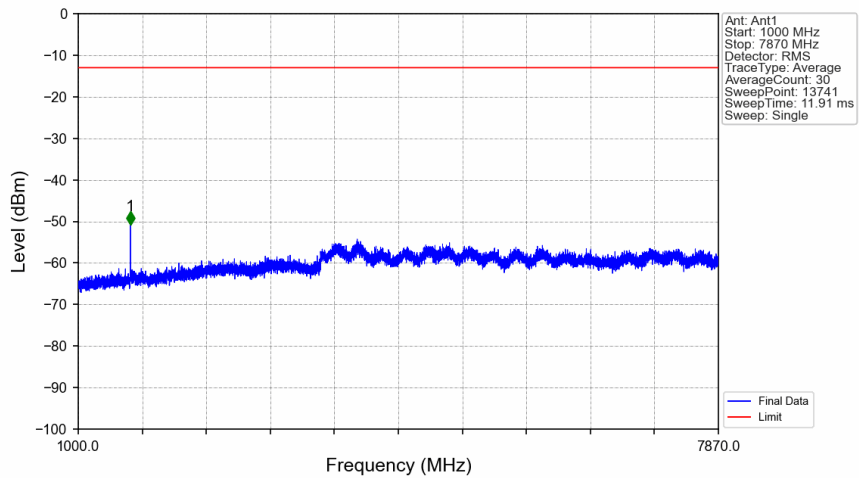
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	CHP	1	774.762	-63.73	-35	Pass
775	776.9	0.1	CHP	2	776.850	-35.85	-13	Pass
776.9	777	0.03	CHP	3	776.999	-35.42	-13	Pass
777	782	0.03	CHP	/	/	/	/	/

n13_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_782MHz_Edge_1RB_Left_Ant1



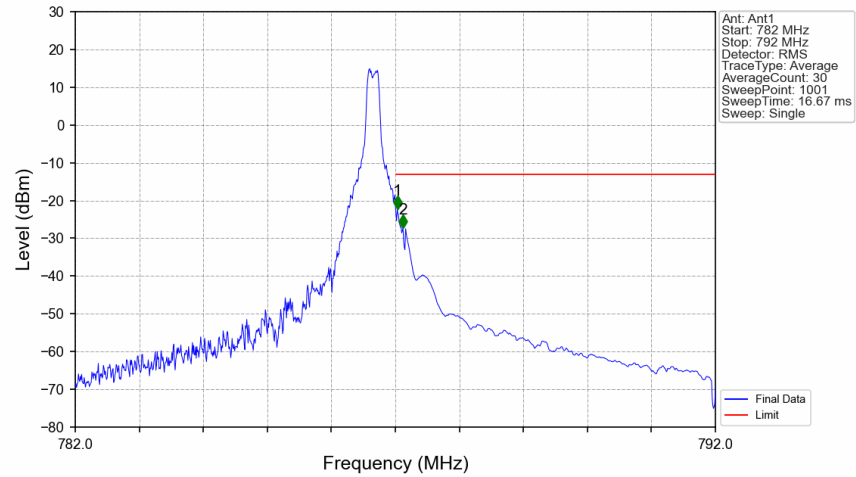
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	758	0.1	/	1	751.850	-54.43	-13	Pass
758	763	0.1	/	2	758.400	-71.22	-13	Pass
763	775	0.1	/	3	764.500	-71.67	-35	Pass
775	792	0.1	/	/	/	/	/	/
792	793	0.1	/	4	792.350	-72.05	-13	Pass
793	806	0.1	/	5	799.600	-70.39	-35	Pass
806	810	0.1	/	6	809.900	-71.13	-13	Pass
810	1000	0.1	/	7	908.450	-59.86	-13	Pass

n13_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_782MHz_Edge_1RB_Left_Ant1



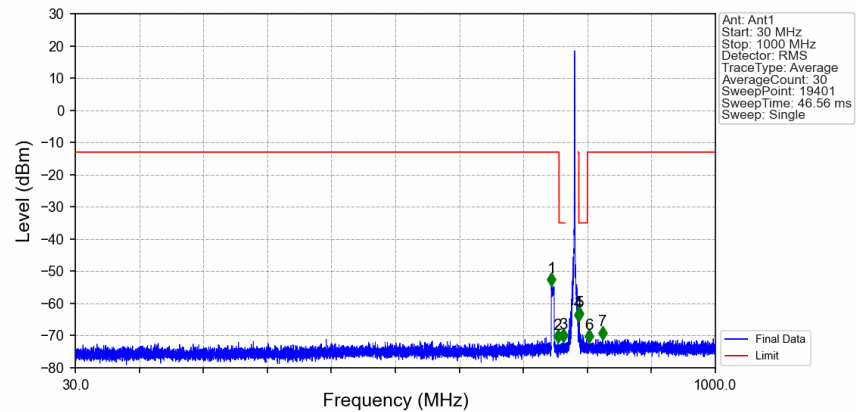
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	7870	1	/	1	1559.500	-50.76	-13	Pass

n13_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_784.5MHz_Edge_1RB_Right_Ant1



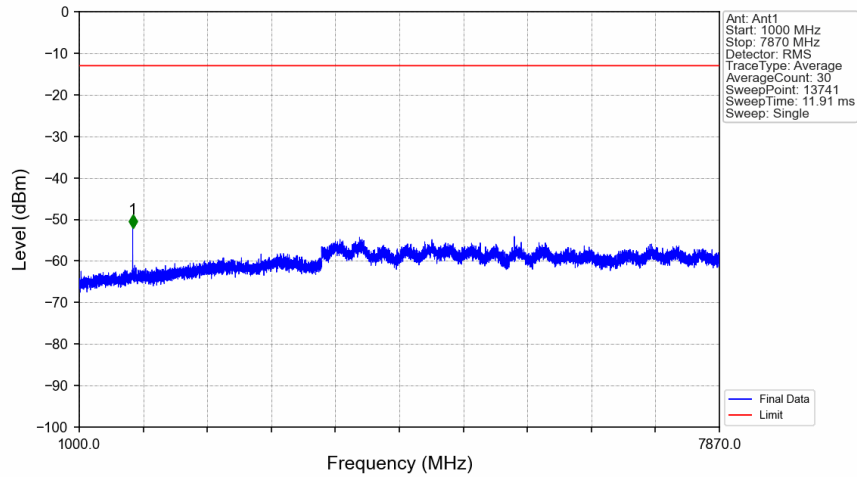
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
782	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	1	787.030	-22.17	-13	Pass
787.1	792	0.1	CHP	2	787.120	-27.32	-13	Pass

n13_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_784.5MHz_Edge_1RB_Right_Ant1



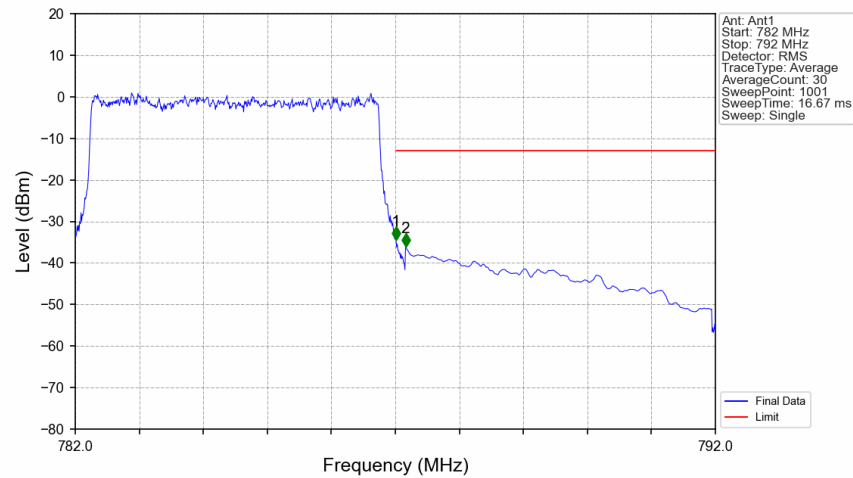
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	758	0.1	/	1	751.400	-54.26	-13	Pass
758	763	0.1	/	2	761.150	-71.83	-13	Pass
763	775	0.1	/	3	769.250	-71.71	-35	Pass
775	792	0.1	/	/	/	/	/	/
792	793	0.1	/	4	792.200	-65.19	-13	Pass
793	806	0.1	/	5	793.700	-64.90	-35	Pass
806	810	0.1	/	6	808.700	-71.90	-13	Pass
810	1000	0.1	/	7	828.650	-70.84	-13	Pass

n13_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_784.5MHz_Edge_1RB_Right_Ant1



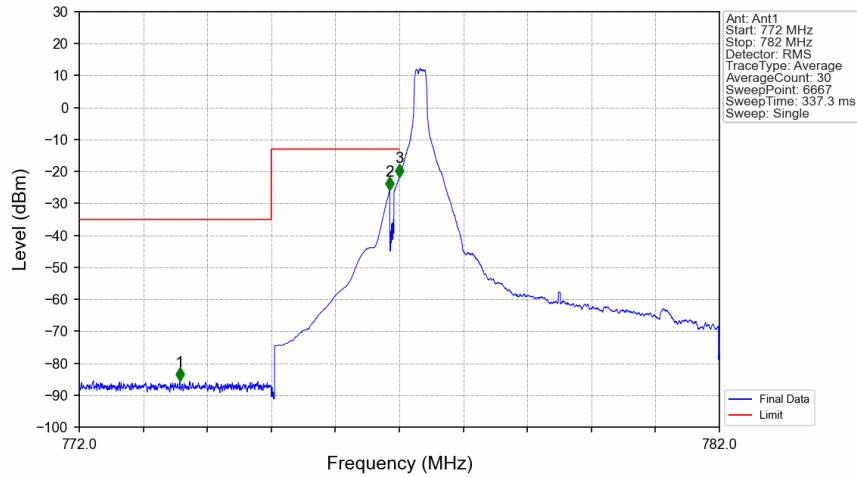
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	7870	1	/	1	1573.000	-51.97	-13	Pass

n13_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_784.5MHz_Outer_Full_Ant1



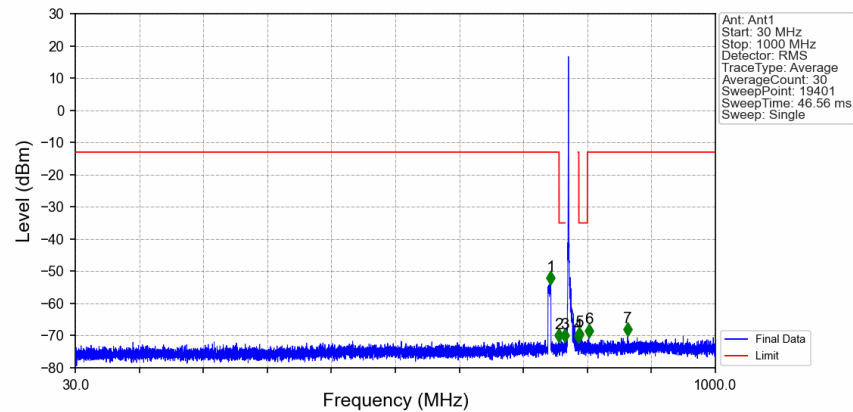
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
782	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	1	787.010	-34.32	-13	Pass
787.1	792	0.1	CHP	2	787.160	-36.12	-13	Pass

n13_15kHz_SISO_NTNV_5MHz_CP-OFDM_QPSK_779.5MHz_Edge_1RB_Left_Ant1



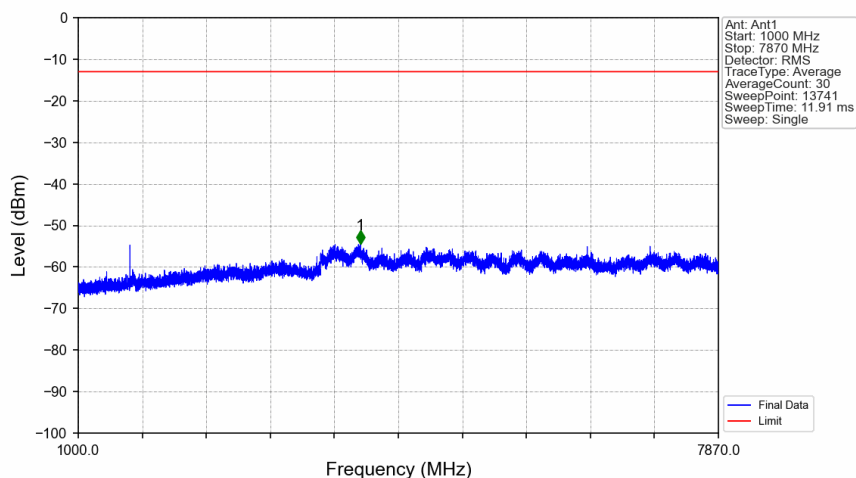
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	CHP	1	773.571	-85.39	-35	Pass
775	776.9	0.1	CHP	2	776.850	-25.87	-13	Pass
776.9	777	0.03	CHP	3	776.999	-21.67	-13	Pass
777	782	0.03	CHP	/	/	/	/	/

n13_15kHz_SISO_NTNV_5MHz_CP-OFDM_QPSK_779.5MHz_Edge_1RB_Left_Ant1



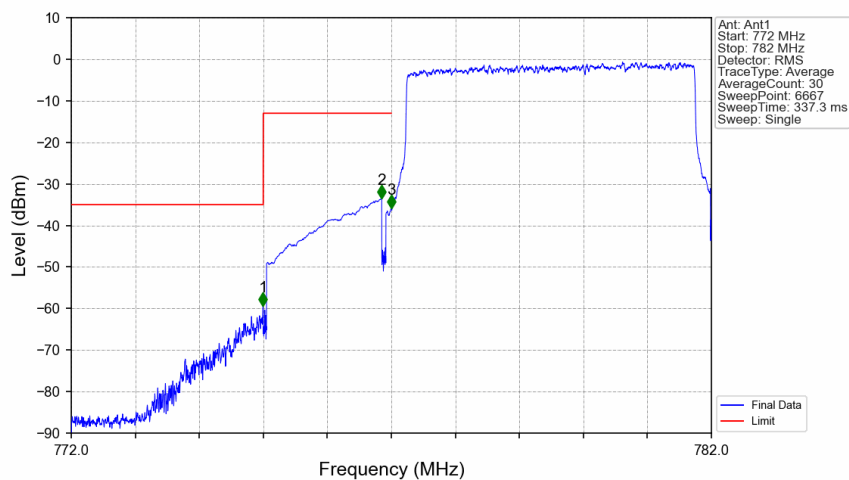
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	758	0.1	/	1	750.400	-53.83	-13	Pass
758	763	0.1	/	2	762.600	-71.71	-13	Pass
763	775	0.1	/	3	771.950	-71.61	-35	Pass
775	792	0.1	/	/	/	/	/	/
792	793	0.1	/	4	792.500	-71.98	-13	Pass
793	806	0.1	/	5	793.900	-71.08	-35	Pass
806	810	0.1	/	6	808.200	-70.17	-13	Pass
810	1000	0.1	/	7	867.200	-69.76	-13	Pass

n13_15kHz_SISO_NTNV_5MHz_CP-OFDM_QPSK_779.5MHz_Edge_1RB_Left_Ant1



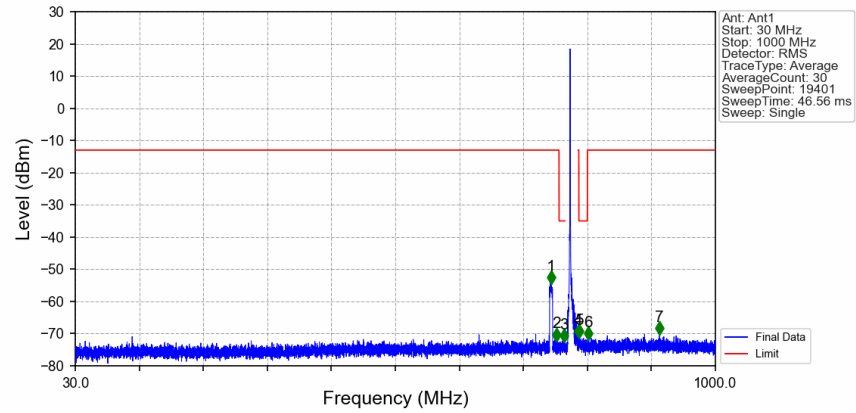
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	7870	1	/	1	4028.000	-54.47	-13	Pass

n13_15kHz_SISO_NTNV_5MHz_CP-OFDM_QPSK_779.5MHz_Outer_Full_Ant1



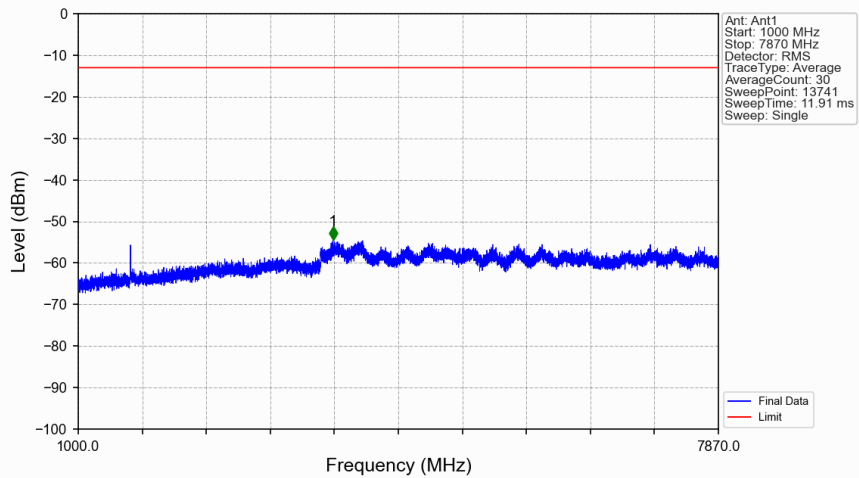
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	CHP	1	774.994	-59.35	-35	Pass
775	776.9	0.1	CHP	2	776.845	-33.48	-13	Pass
776.9	777	0.03	CHP	3	776.997	-35.77	-13	Pass
777	782	0.03	CHP	/	/	/	/	/

n13_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_782MHz_Edge_1RB_Left_Ant1



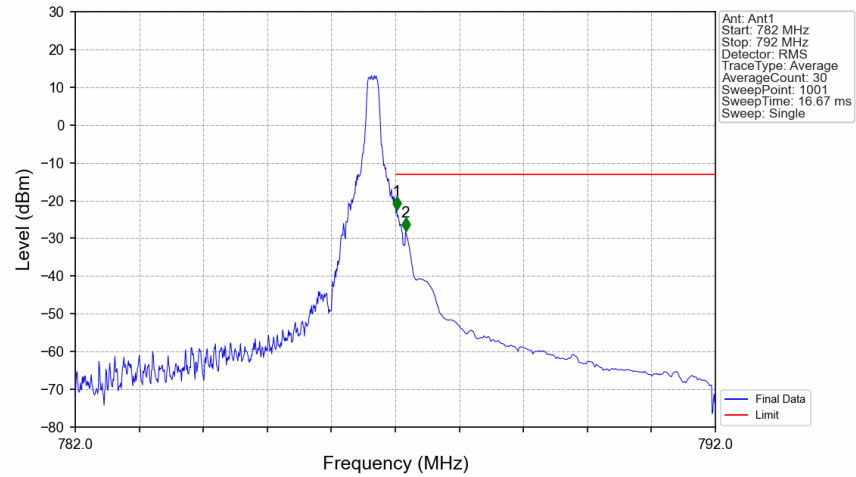
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	758	0.1	/	1	750.900	-54.22	-13	Pass
758	763	0.1	/	2	759.150	-71.99	-13	Pass
763	775	0.1	/	3	770.450	-72.34	-35	Pass
775	792	0.1	/	/	/	/	/	/
792	793	0.1	/	4	792.350	-70.91	-13	Pass
793	806	0.1	/	5	793.900	-70.93	-35	Pass
806	810	0.1	/	6	807.350	-71.70	-13	Pass
810	1000	0.1	/	7	915.300	-70.04	-13	Pass

n13_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_782MHz_Edge_1RB_Left_Ant1



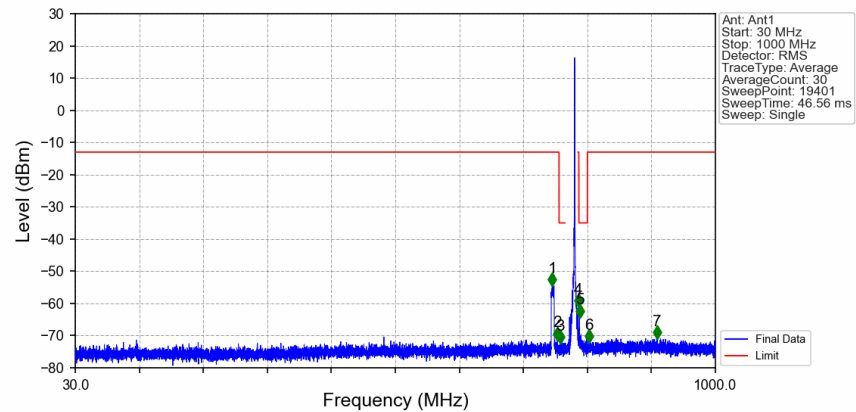
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	7870	1	/	1	3733.500	-54.36	-13	Pass

n13_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_784.5MHz_Edge_1RB_Right_Ant1



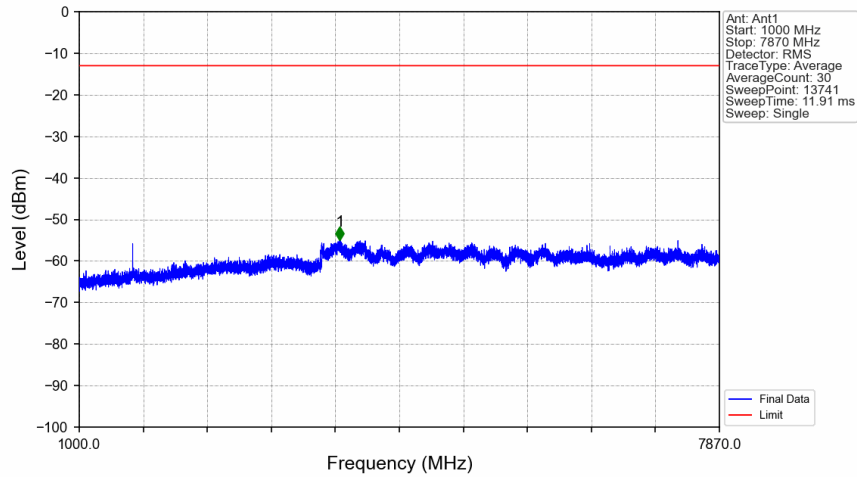
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
782	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	1	787.020	-22.37	-13	Pass
787.1	792	0.1	CHP	2	787.160	-28.12	-13	Pass

n13_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_784.5MHz_Edge_1RB_Right_Ant1



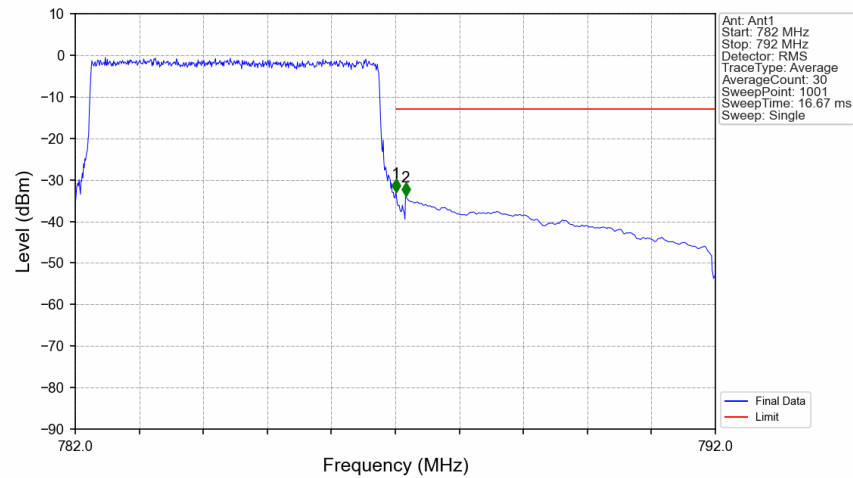
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	758	0.1	/	1	752.750	-54.26	-13	Pass
758	763	0.1	/	2	760.300	-71.06	-13	Pass
763	775	0.1	/	3	764.700	-72.20	-35	Pass
775	792	0.1	/	/	/	/	/	/
792	793	0.1	/	4	792.150	-60.81	-13	Pass
793	806	0.1	/	5	794.200	-64.04	-35	Pass
806	810	0.1	/	6	808.200	-71.88	-13	Pass
810	1000	0.1	/	7	911.750	-70.69	-13	Pass

n13_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_784.5MHz_Edge_1RB_Right_Ant1



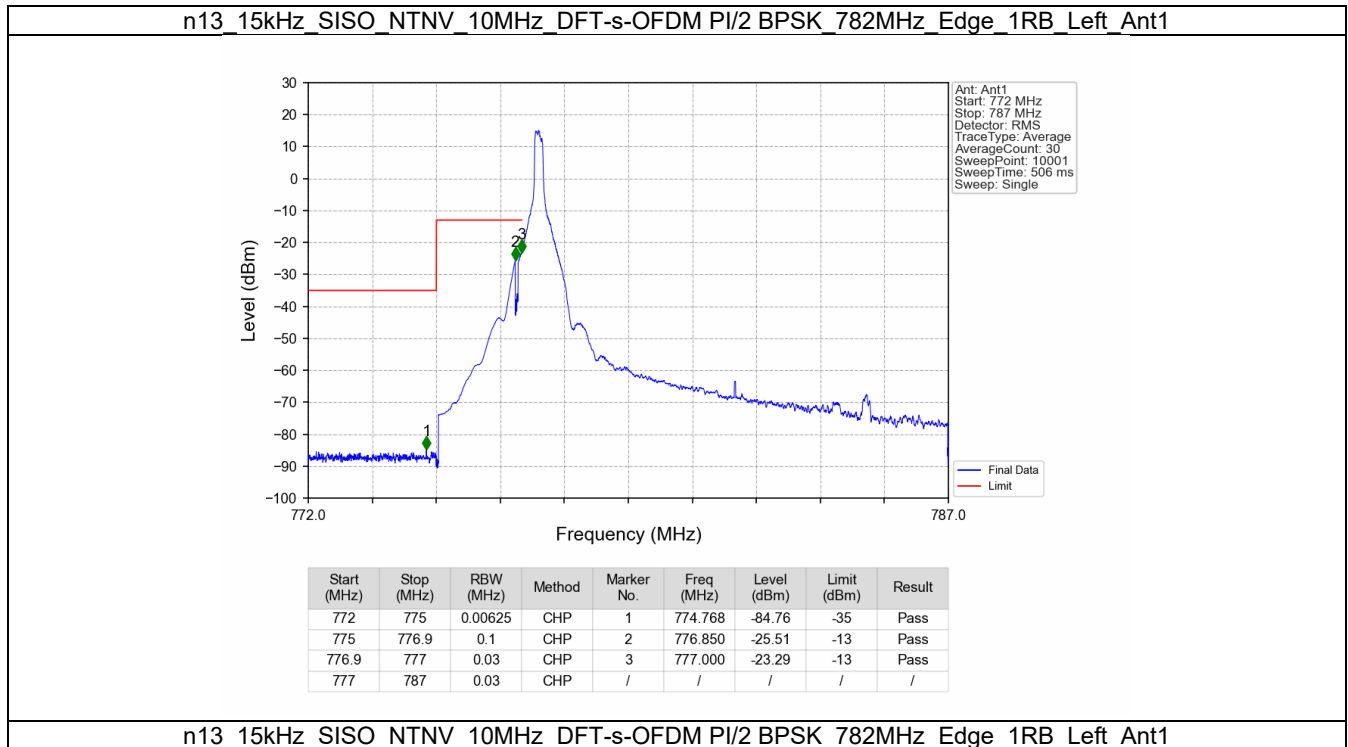
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	7870	1	/	1	3795.000	-54.88	-13	Pass

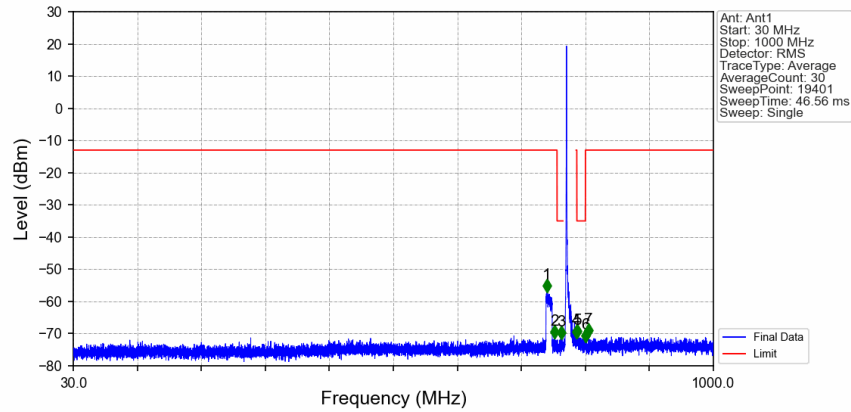
n13_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_784.5MHz_Outer_Full_Ant1



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
782	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	1	787.010	-32.87	-13	Pass
787.1	792	0.1	CHP	2	787.160	-33.83	-13	Pass

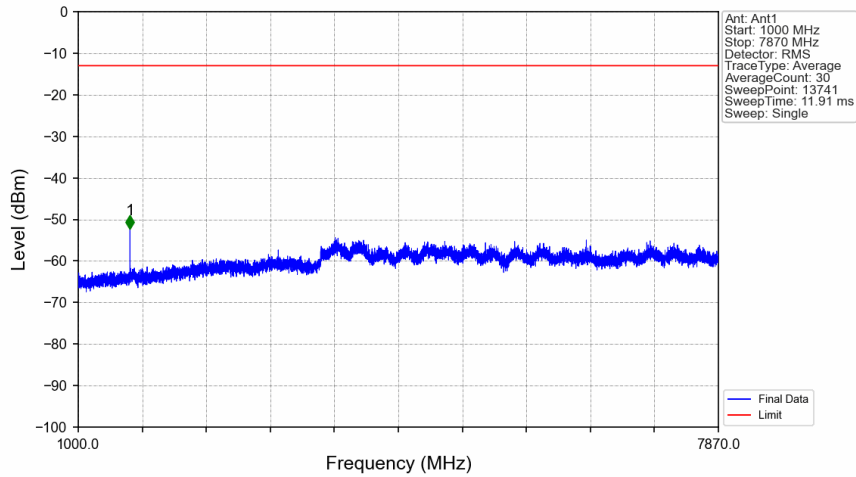
5.2.2 15_S_10M_NTNV





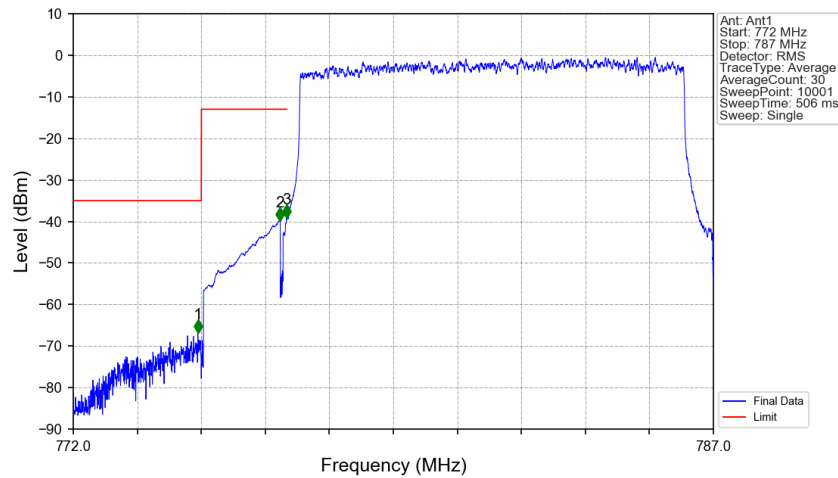
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	758	0.1	/	1	747.750	-56.85	-13	Pass
758	763	0.1	/	2	759.200	-71.23	-13	Pass
763	775	0.1	/	3	769.950	-71.42	-35	Pass
775	792	0.1	/	/	/	/	/	/
792	793	0.1	/	4	792.250	-71.06	-13	Pass
793	806	0.1	/	5	793.850	-70.90	-35	Pass
806	810	0.1	/	6	806.350	-72.34	-13	Pass
810	1000	0.1	/	7	810.450	-70.67	-13	Pass

n13_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_782MHz_Edge_1RB_Left_Ant1



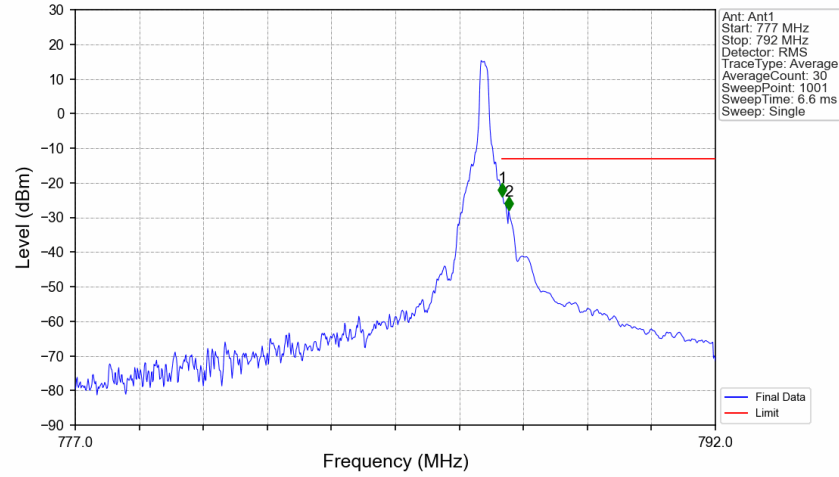
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	7870	1	/	1	1555.000	-52.23	-13	Pass

n13_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_782MHz_Outer_Full_Ant1



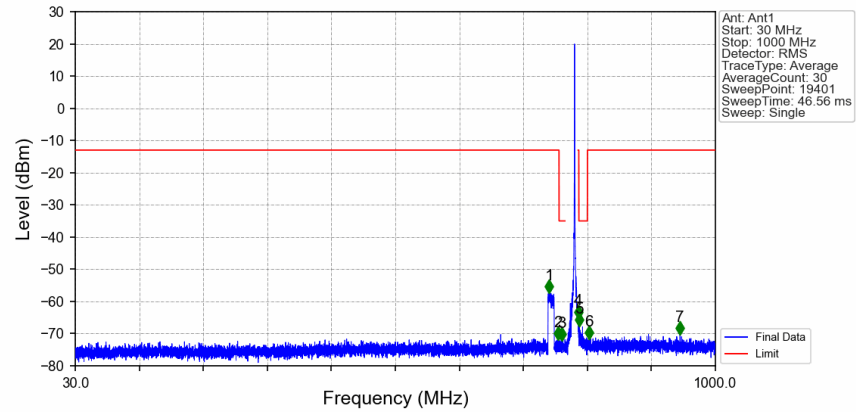
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	CHP	1	774.920	-66.77	-35	Pass
775	776.9	0.1	CHP	2	776.837	-39.92	-13	Pass
776.9	777	0.03	CHP	3	777.000	-39.04	-13	Pass
777	787	0.03	CHP	/	/	/	/	/

n13_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_782MHz_Edge_1RB_Right_Ant1



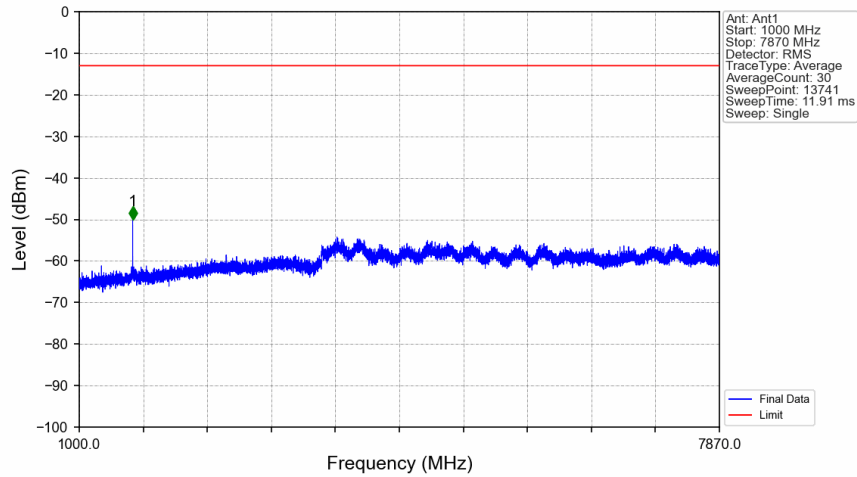
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	1	787.005	-23.94	-13	Pass
787.1	792	0.1	CHP	2	787.155	-27.85	-13	Pass

n13_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_782MHz_Edge_1RB_Right_Ant1



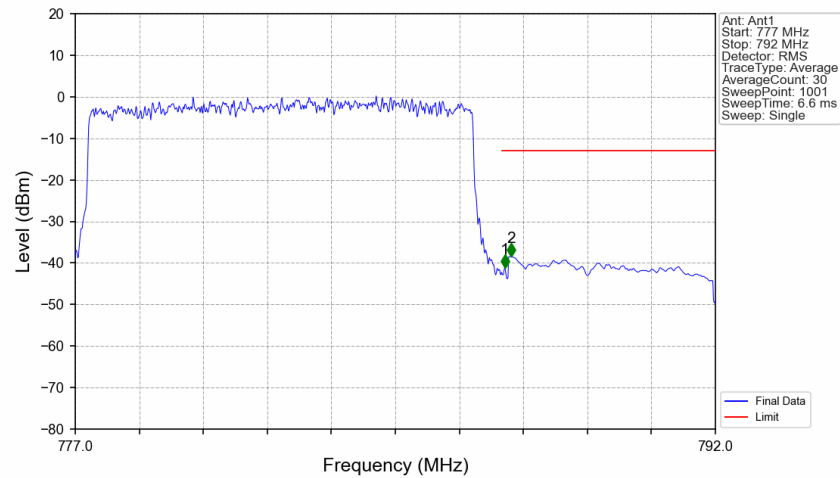
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	758	0.1	/	1	748.100	-57.15	-13	Pass
758	763	0.1	/	2	761.800	-71.75	-13	Pass
763	775	0.1	/	3	767.300	-71.98	-35	Pass
775	792	0.1	/	/	/	/	/	/
792	793	0.1	/	4	792.200	-64.99	-13	Pass
793	806	0.1	/	5	793.600	-67.50	-35	Pass
806	810	0.1	/	6	808.750	-71.36	-13	Pass
810	1000	0.1	/	7	946.400	-70.02	-13	Pass

n13_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_782MHz_Edge_1RB_Right_Ant1



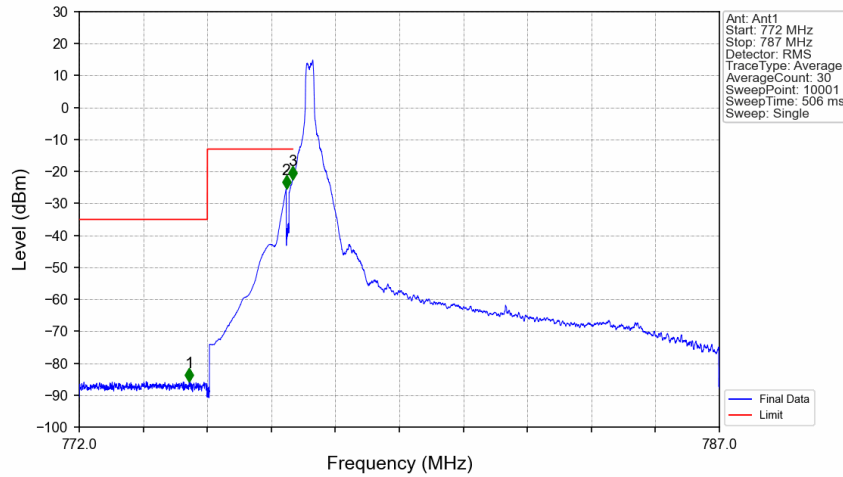
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	7870	1	/	1	1573.000	-50.07	-13	Pass

n13_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_782MHz_Outer_Full_Ant1



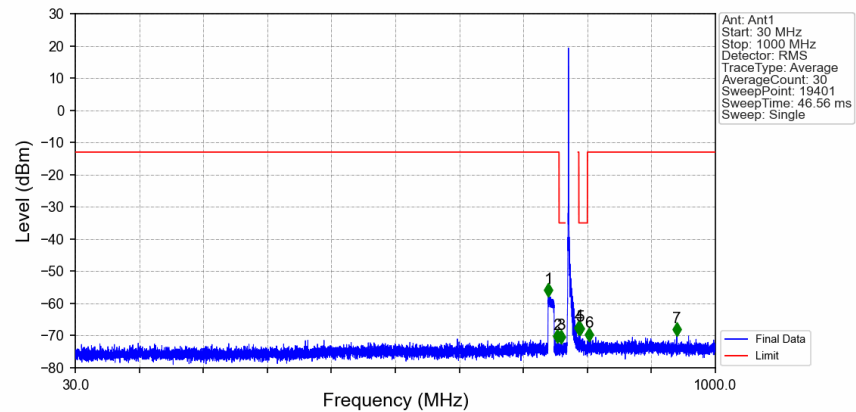
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	1	787.065	-41.16	-13	Pass
787.1	792	0.1	CHP	2	787.215	-38.45	-13	Pass

n13_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_782MHz_Edge_1RB_Left_Ant1



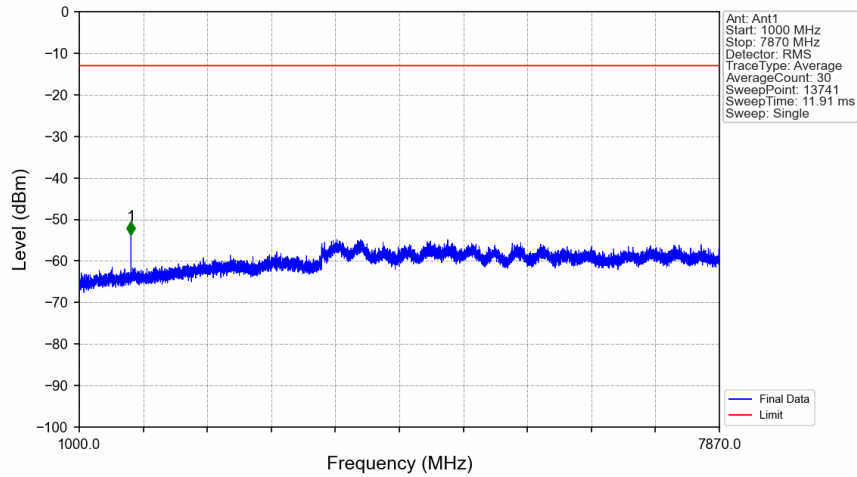
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	CHP	1	774.572	-85.64	-35	Pass
775	776.9	0.1	CHP	2	776.850	-25.35	-13	Pass
776.9	777	0.03	CHP	3	777.000	-22.56	-13	Pass
777	787	0.03	CHP	/	/	/	/	/

n13_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_782MHz_Edge_1RB_Left_Ant1



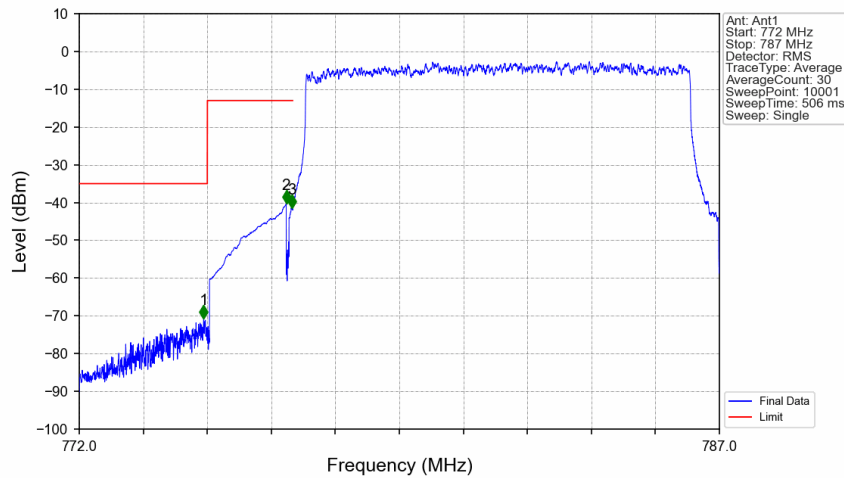
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	758	0.1	/	1	746.800	-57.59	-13	Pass
758	763	0.1	/	2	760.500	-71.82	-13	Pass
763	775	0.1	/	3	766.100	-72.04	-35	Pass
775	792	0.1	/	/	/	/	/	/
792	793	0.1	/	4	792.800	-69.23	-13	Pass
793	806	0.1	/	5	794.700	-69.46	-35	Pass
806	810	0.1	/	6	808.400	-71.34	-13	Pass
810	1000	0.1	/	7	941.500	-69.73	-13	Pass

n13_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_QPSK_782MHz_Edge_1RB_Left_Ant1



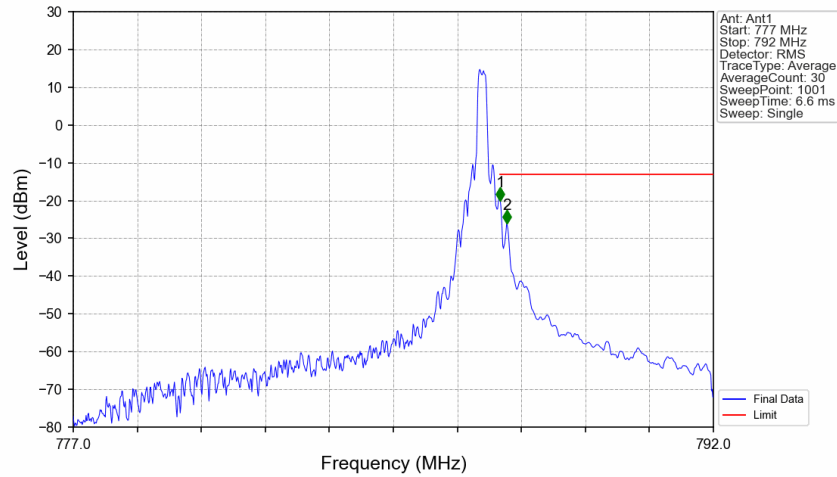
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	7870	1	/	1	1554.500	-53.76	-13	Pass

n13_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_QPSK_782MHz_Outer_Full_Ant1



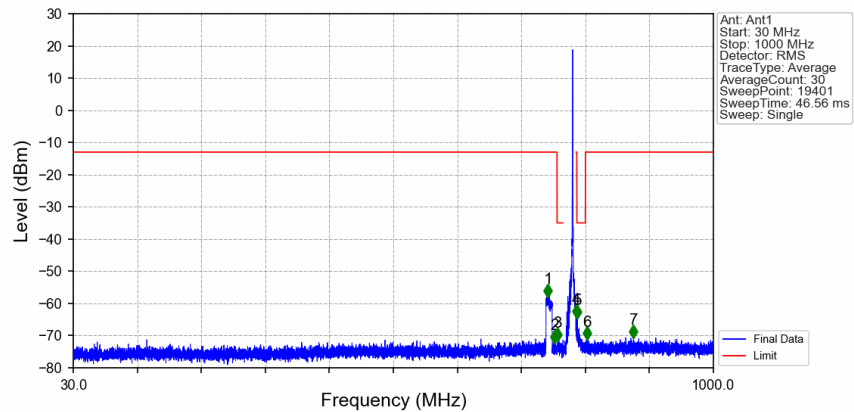
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	CHP	1	774.916	-70.65	-35	Pass
775	776.9	0.1	CHP	2	776.850	-40.27	-13	Pass
776.9	777	0.03	CHP	3	776.979	-41.43	-13	Pass
777	787	0.03	CHP	/	/	/	/	/

n13_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_782MHz_Edge_1RB_Right_Ant1



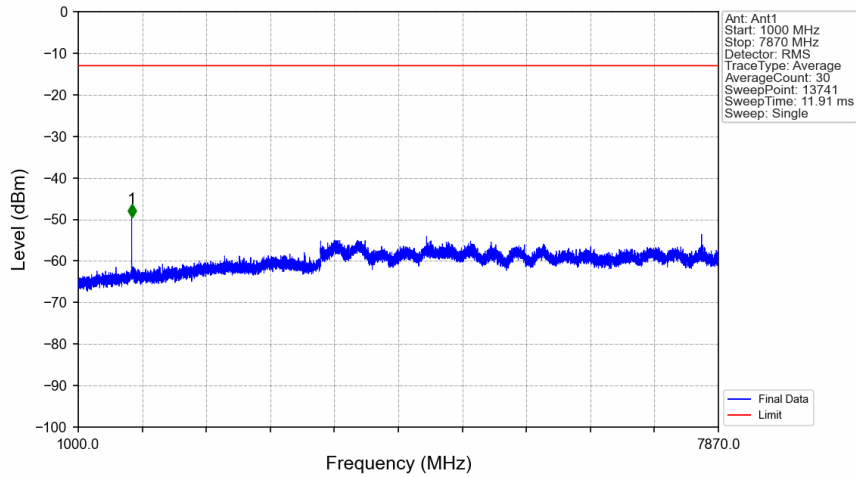
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	1	787.005	-20.00	-13	Pass
787.1	792	0.1	CHP	2	787.155	-26.03	-13	Pass

n13_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_782MHz_Edge_1RB_Right_Ant1



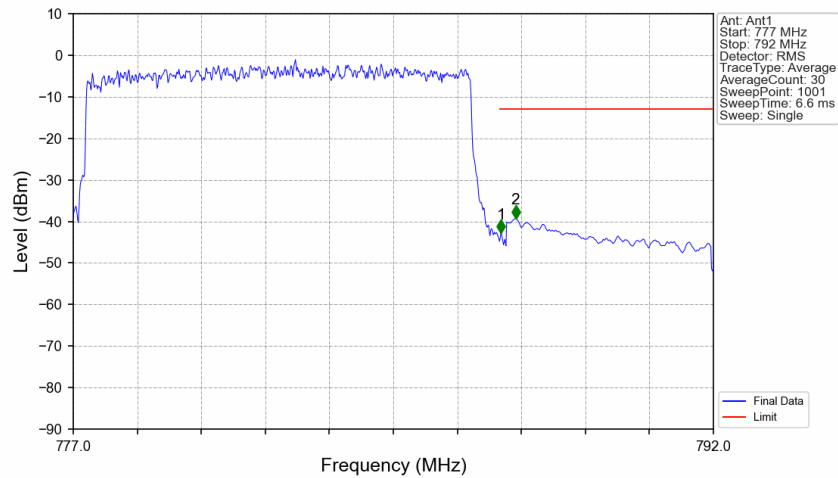
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	758	0.1	/	1	749.100	-57.67	-13	Pass
758	763	0.1	/	2	759.650	-72.05	-13	Pass
763	775	0.1	/	3	764.350	-71.33	-35	Pass
775	792	0.1	/	/	/	/	/	/
792	793	0.1	/	4	792.200	-64.04	-13	Pass
793	806	0.1	/	5	793.800	-64.26	-35	Pass
806	810	0.1	/	6	808.050	-70.92	-13	Pass
810	1000	0.1	/	7	879.000	-70.37	-13	Pass

n13_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_QPSK_782MHz_Edge_1RB_Right_Ant1



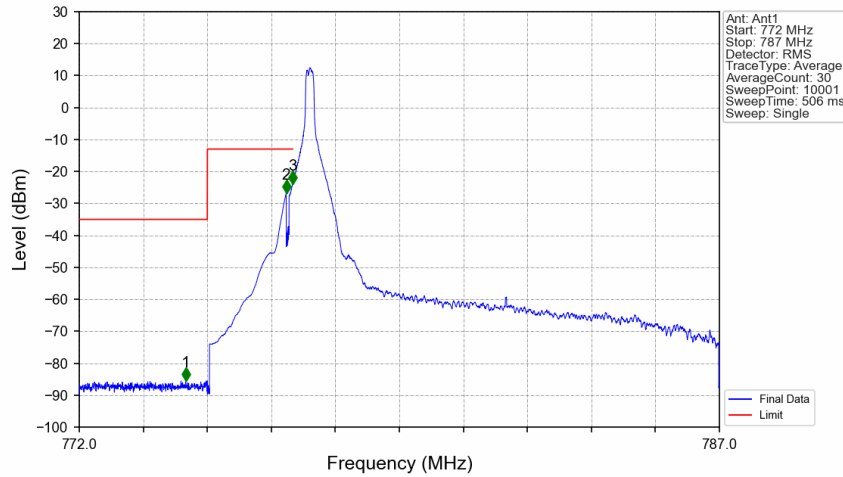
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	7870	1	/	1	1573.000	-49.50	-13	Pass

n13_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_QPSK_782MHz_Outer_Full_Ant1



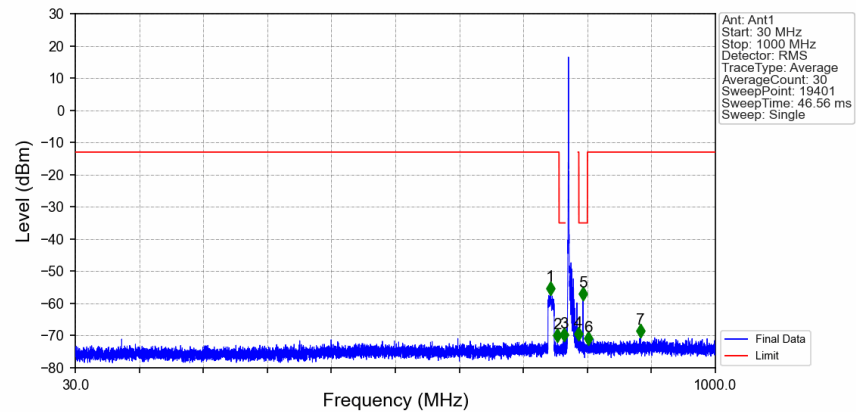
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	1	787.020	-42.80	-13	Pass
787.1	792	0.1	CHP	2	787.365	-39.22	-13	Pass

n13_15kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_782MHz_Edge_1RB_Left_Ant1



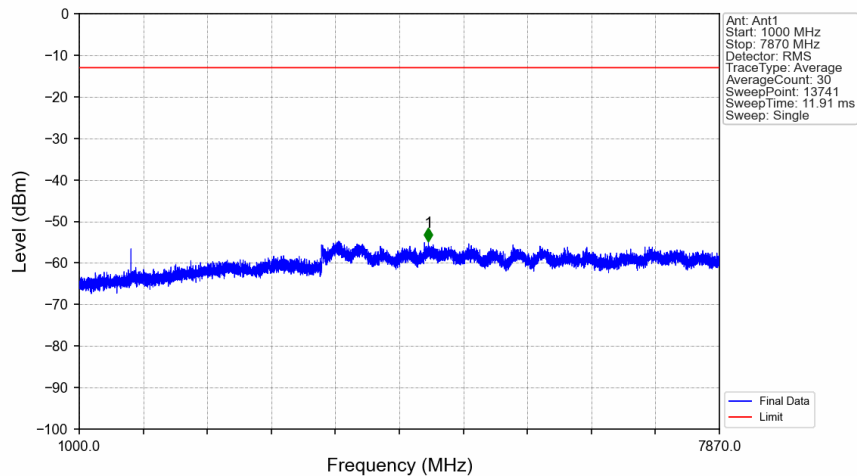
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	CHP	1	774.495	-85.45	-35	Pass
775	776.9	0.1	CHP	2	776.850	-26.71	-13	Pass
776.9	777	0.03	CHP	3	777.000	-23.92	-13	Pass
777	787	0.03	CHP	/	/	/	/	/

n13_15kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_782MHz_Edge_1RB_Left_Ant1



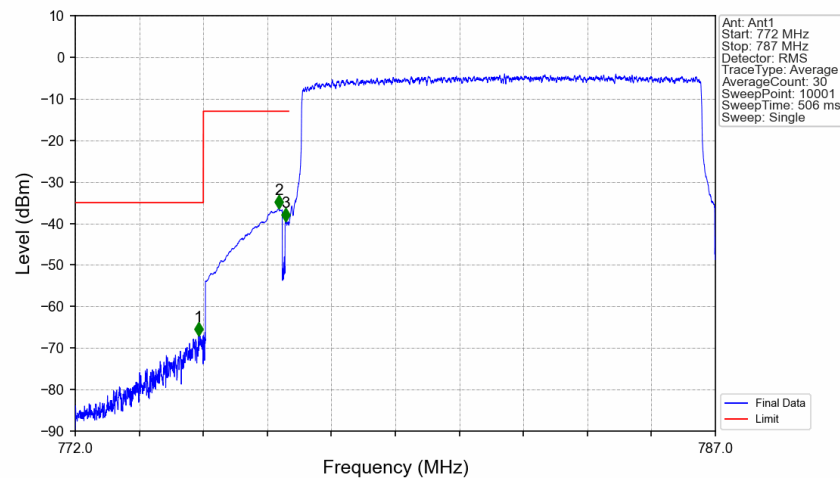
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	758	0.1	/	1	750.000	-57.00	-13	Pass
758	763	0.1	/	2	760.850	-71.65	-13	Pass
763	775	0.1	/	3	770.900	-71.39	-35	Pass
775	792	0.1	/	/	/	/	/	/
792	793	0.1	/	4	792.300	-71.23	-13	Pass
793	806	0.1	/	5	799.400	-58.80	-35	Pass
806	810	0.1	/	6	807.550	-72.55	-13	Pass
810	1000	0.1	/	7	886.650	-70.23	-13	Pass

n13_15kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_782MHz_Edge_1RB_Left_Ant1



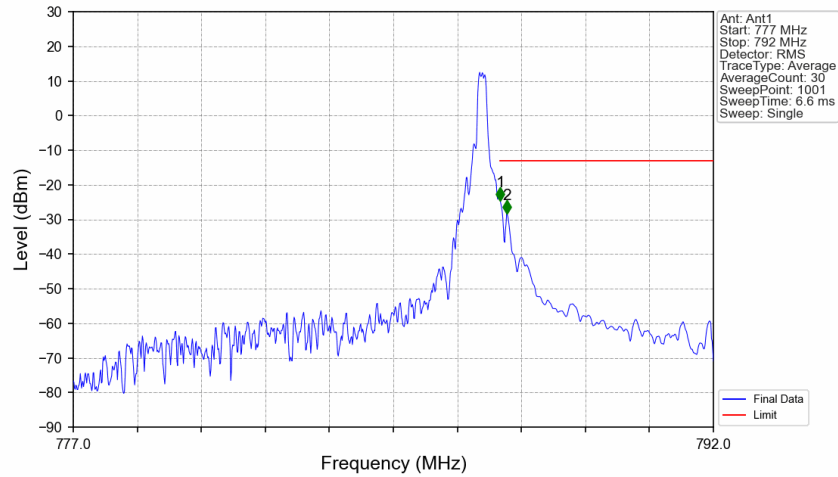
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	7870	1	/	1	4747.500	-54.73	-13	Pass

n13_15kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_782MHz_Outer_Full_Ant1



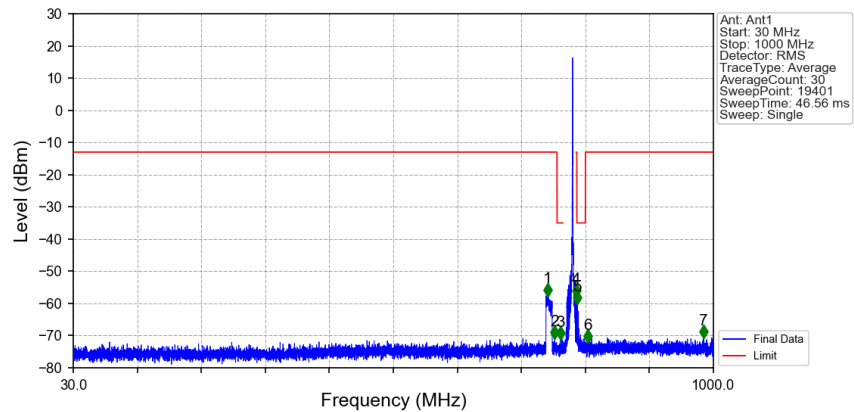
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	CHP	1	774.888	-66.91	-35	Pass
775	776.9	0.1	CHP	2	776.764	-36.44	-13	Pass
776.9	777	0.03	CHP	3	776.928	-39.56	-13	Pass
777	787	0.03	CHP	/	/	/	/	/

n13_15kHz_SISO_NTNV_10MHz_CP-OFDM_QPSK_782MHz_Edge_1RB_Right_Ant1



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	1	787.005	-24.62	-13	Pass
787.1	792	0.1	CHP	2	787.155	-28.36	-13	Pass

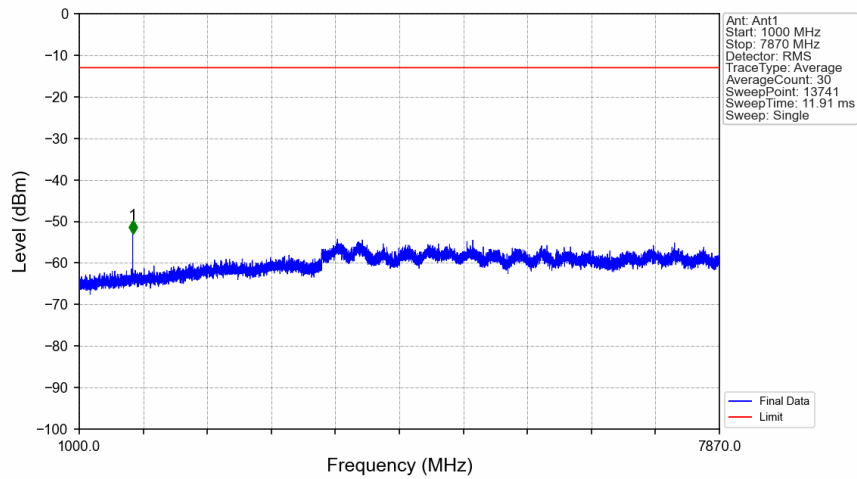
n13_15kHz_SISO_NTNV_10MHz_CP-OFDM_QPSK_782MHz_Edge_1RB_Right_Ant1



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	758	0.1	/	1	748.400	-57.47	-13	Pass
758	763	0.1	/	2	759.550	-70.65	-13	Pass
763	775	0.1	/	3	768.150	-70.92	-35	Pass
775	792	0.1	/	/	/	/	/	/
792	793	0.1	/	4	792.350	-57.68	-13	Pass
793	806	0.1	/	5	793.800	-59.94	-35	Pass
806	810	0.1	/	6	809.250	-71.97	-13	Pass
810	1000	0.1	/	7	985.300	-70.57	-13	Pass

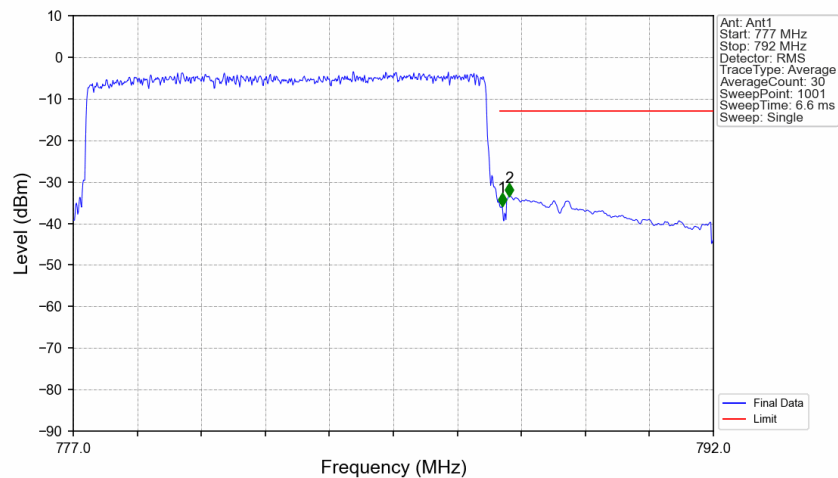


n13_15kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_782MHz_Edge_1RB_Right_Ant1



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	7870	1	/	1	1573.000	-52.90	-13	Pass

n13_15kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_782MHz_Outer_Full_Ant1



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	1	787.050	-35.77	-13	Pass
787.1	792	0.1	CHP	2	787.215	-33.41	-13	Pass



6. Frequency Stability (IC)

6.1 Test Result

6.1.1 15_S_10M

5G NR n13 SCS=15kHz SISO 10MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	OBW (FL - FH) (MHz)		Limit	Verdict
					FL	FH		
DFT-s-OFDM QPSK	782	Outer_Full	20	LV	777.352	786.328	777 to 787	Pass
				HV	777.353	786.325	777 to 787	Pass
			-30	NV	777.354	786.333	777 to 787	Pass
			-20	NV	777.352	786.328	777 to 787	Pass
			-10	NV	777.352	786.331	777 to 787	Pass
			0	NV	777.354	786.333	777 to 787	Pass
			10	NV	777.352	786.325	777 to 787	Pass
			20	NV	777.352	786.325	777 to 787	Pass
			30	NV	777.354	786.324	777 to 787	Pass
			40	NV	777.354	786.331	777 to 787	Pass
			50	NV	777.354	786.324	777 to 787	Pass

---End of Attachment---