



Appendix A.27

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 15_S_5M_NTNV_ERP

5G NR n14 SCS=15kHz SISO 5MHz NTN										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			ERP(dBm)				Verdict
			Ant0	Ant2	Sum	Ant0	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	790.5	Edge_1RB_Left	22.63	/	/	17.67	/	/	<=34.77	Pass
		Edge_1RB_Right	22.56	/	/	17.60	/	/	<=34.77	Pass
		Outer_Full	22.50	/	/	17.54	/	/	<=34.77	Pass
		Inner_Full	23.05	/	/	18.09	/	/	<=34.77	Pass
		Inner_1RB_Left	23.07	/	/	18.11	/	/	<=34.77	Pass
		Inner_1RB_Right	23.05	/	/	18.09	/	/	<=34.77	Pass
	793	Edge_1RB_Left	22.51	/	/	17.55	/	/	<=34.77	Pass
		Edge_1RB_Right	22.57	/	/	17.61	/	/	<=34.77	Pass
		Outer_Full	22.60	/	/	17.64	/	/	<=34.77	Pass
		Inner_Full	23.10	/	/	18.14	/	/	<=34.77	Pass
		Inner_1RB_Left	23.03	/	/	18.07	/	/	<=34.77	Pass
		Inner_1RB_Right	23.08	/	/	18.12	/	/	<=34.77	Pass
	795.5	Edge_1RB_Left	22.66	/	/	17.70	/	/	<=34.77	Pass
		Edge_1RB_Right	22.62	/	/	17.66	/	/	<=34.77	Pass
		Outer_Full	22.67	/	/	17.71	/	/	<=34.77	Pass
		Inner_Full	23.18	/	/	18.22	/	/	<=34.77	Pass
		Inner_1RB_Left	23.16	/	/	18.20	/	/	<=34.77	Pass
		Inner_1RB_Right	23.06	/	/	18.10	/	/	<=34.77	Pass
DFT-s-OFDM QPSK	790.5	Edge_1RB_Left	22.03	/	/	17.07	/	/	<=34.77	Pass
		Edge_1RB_Right	22.04	/	/	17.08	/	/	<=34.77	Pass
		Outer_Full	22.14	/	/	17.18	/	/	<=34.77	Pass
		Inner_Full	23.10	/	/	18.14	/	/	<=34.77	Pass
		Inner_1RB_Left	23.05	/	/	18.09	/	/	<=34.77	Pass
		Inner_1RB_Right	23.03	/	/	18.07	/	/	<=34.77	Pass
	793	Edge_1RB_Left	22.01	/	/	17.05	/	/	<=34.77	Pass
		Edge_1RB_Right	22.07	/	/	17.11	/	/	<=34.77	Pass
		Outer_Full	22.14	/	/	17.18	/	/	<=34.77	Pass
		Inner_Full	23.15	/	/	18.19	/	/	<=34.77	Pass
		Inner_1RB_Left	23.05	/	/	18.09	/	/	<=34.77	Pass
		Inner_1RB_Right	23.07	/	/	18.11	/	/	<=34.77	Pass
	795.5	Edge_1RB_Left	22.16	/	/	17.20	/	/	<=34.77	Pass
		Edge_1RB_Right	22.04	/	/	17.08	/	/	<=34.77	Pass
		Outer_Full	22.11	/	/	17.15	/	/	<=34.77	Pass
		Inner_Full	23.16	/	/	18.20	/	/	<=34.77	Pass
		Inner_1RB_Left	23.21	/	/	18.25	/	/	<=34.77	Pass
		Inner_1RB_Right	23.06	/	/	18.10	/	/	<=34.77	Pass
DFT-s-OFDM 16 QAM	790.5	Edge_1RB_Left	20.99	/	/	16.03	/	/	<=34.77	Pass
		Edge_1RB_Right	20.97	/	/	16.01	/	/	<=34.77	Pass
		Outer_Full	21.24	/	/	16.28	/	/	<=34.77	Pass
		Inner_Full	22.22	/	/	17.26	/	/	<=34.77	Pass

		Inner_1RB_Left	21.94	/	/	16.98	/	/	<=34.77	Pass
		Inner_1RB_Right	22.04	/	/	17.08	/	/	<=34.77	Pass
	793	Edge_1RB_Left	21.09	/	/	16.13	/	/	<=34.77	Pass
		Edge_1RB_Right	21.07	/	/	16.11	/	/	<=34.77	Pass
		Outer_Full	21.16	/	/	16.20	/	/	<=34.77	Pass
		Inner_Full	22.28	/	/	17.32	/	/	<=34.77	Pass
		Inner_1RB_Left	22.05	/	/	17.09	/	/	<=34.77	Pass
		Inner_1RB_Right	22.07	/	/	17.11	/	/	<=34.77	Pass
	795.5	Edge_1RB_Left	21.13	/	/	16.17	/	/	<=34.77	Pass
		Edge_1RB_Right	21.03	/	/	16.07	/	/	<=34.77	Pass
		Outer_Full	21.13	/	/	16.17	/	/	<=34.77	Pass
		Inner_Full	22.29	/	/	17.33	/	/	<=34.77	Pass
		Inner_1RB_Left	22.12	/	/	17.16	/	/	<=34.77	Pass
		Inner_1RB_Right	22.07	/	/	17.11	/	/	<=34.77	Pass
DFT-s-OFDM 64 QAM	790.5	Edge_1RB_Left	20.73	/	/	15.77	/	/	<=34.77	Pass
		Edge_1RB_Right	20.72	/	/	15.76	/	/	<=34.77	Pass
		Outer_Full	20.57	/	/	15.61	/	/	<=34.77	Pass
		Inner_Full	20.72	/	/	15.76	/	/	<=34.77	Pass
		Inner_1RB_Left	20.78	/	/	15.82	/	/	<=34.77	Pass
		Inner_1RB_Right	20.74	/	/	15.78	/	/	<=34.77	Pass
	793	Edge_1RB_Left	20.75	/	/	15.79	/	/	<=34.77	Pass
		Edge_1RB_Right	20.70	/	/	15.74	/	/	<=34.77	Pass
		Outer_Full	20.65	/	/	15.69	/	/	<=34.77	Pass
		Inner_Full	20.76	/	/	15.80	/	/	<=34.77	Pass
		Inner_1RB_Left	20.76	/	/	15.80	/	/	<=34.77	Pass
		Inner_1RB_Right	20.78	/	/	15.82	/	/	<=34.77	Pass
	795.5	Edge_1RB_Left	20.84	/	/	15.88	/	/	<=34.77	Pass
		Edge_1RB_Right	20.81	/	/	15.85	/	/	<=34.77	Pass
		Outer_Full	20.74	/	/	15.78	/	/	<=34.77	Pass
		Inner_Full	20.69	/	/	15.73	/	/	<=34.77	Pass
		Inner_1RB_Left	20.82	/	/	15.86	/	/	<=34.77	Pass
		Inner_1RB_Right	20.83	/	/	15.87	/	/	<=34.77	Pass
DFT-s-OFDM 256 QAM	790.5	Edge_1RB_Left	18.03	/	/	13.07	/	/	<=34.77	Pass
		Edge_1RB_Right	18.21	/	/	13.25	/	/	<=34.77	Pass
		Outer_Full	18.58	/	/	13.62	/	/	<=34.77	Pass
		Inner_Full	18.65	/	/	13.69	/	/	<=34.77	Pass
		Inner_1RB_Left	18.10	/	/	13.14	/	/	<=34.77	Pass
		Inner_1RB_Right	18.21	/	/	13.25	/	/	<=34.77	Pass
	793	Edge_1RB_Left	18.11	/	/	13.15	/	/	<=34.77	Pass
		Edge_1RB_Right	18.14	/	/	13.18	/	/	<=34.77	Pass
		Outer_Full	18.64	/	/	13.68	/	/	<=34.77	Pass
		Inner_Full	18.74	/	/	13.78	/	/	<=34.77	Pass
		Inner_1RB_Left	18.21	/	/	13.25	/	/	<=34.77	Pass
		Inner_1RB_Right	18.10	/	/	13.14	/	/	<=34.77	Pass
	795.5	Edge_1RB_Left	18.17	/	/	13.21	/	/	<=34.77	Pass
		Edge_1RB_Right	18.12	/	/	13.16	/	/	<=34.77	Pass
		Outer_Full	18.66	/	/	13.70	/	/	<=34.77	Pass
		Inner_Full	18.70	/	/	13.74	/	/	<=34.77	Pass
		Inner_1RB_Left	18.12	/	/	13.16	/	/	<=34.77	Pass
		Inner_1RB_Right	18.12	/	/	13.16	/	/	<=34.77	Pass
CP-OFDM QPSK	790.5	Edge_1RB_Left	20.15	/	/	15.19	/	/	<=34.77	Pass
		Edge_1RB_Right	20.18	/	/	15.22	/	/	<=34.77	Pass
		Outer_Full	20.09	/	/	15.13	/	/	<=34.77	Pass

		Inner Full	21.68	/	/	16.72	/	/	<=34.77	Pass
		Inner 1RB Left	21.62	/	/	16.66	/	/	<=34.77	Pass
		Inner 1RB Right	21.54	/	/	16.58	/	/	<=34.77	Pass
	793	Edge 1RB Left	20.13	/	/	15.17	/	/	<=34.77	Pass
		Edge 1RB Right	20.12	/	/	15.16	/	/	<=34.77	Pass
		Outer Full	20.16	/	/	15.20	/	/	<=34.77	Pass
		Inner Full	21.68	/	/	16.72	/	/	<=34.77	Pass
		Inner 1RB Left	21.58	/	/	16.62	/	/	<=34.77	Pass
		Inner 1RB Right	21.58	/	/	16.62	/	/	<=34.77	Pass
	795.5	Edge 1RB Left	20.15	/	/	15.19	/	/	<=34.77	Pass
		Edge 1RB Right	20.07	/	/	15.11	/	/	<=34.77	Pass
		Outer Full	20.05	/	/	15.09	/	/	<=34.77	Pass
		Inner Full	21.79	/	/	16.83	/	/	<=34.77	Pass
		Inner 1RB Left	21.61	/	/	16.65	/	/	<=34.77	Pass
		Inner 1RB Right	21.62	/	/	16.66	/	/	<=34.77	Pass
CP-OFDM 16 QAM	790.5	Edge 1RB Left	20.09	/	/	15.13	/	/	<=34.77	Pass
		Edge 1RB Right	20.06	/	/	15.10	/	/	<=34.77	Pass
		Outer Full	20.18	/	/	15.22	/	/	<=34.77	Pass
		Inner Full	20.99	/	/	16.03	/	/	<=34.77	Pass
		Inner 1RB Left	21.09	/	/	16.13	/	/	<=34.77	Pass
		Inner 1RB Right	21.01	/	/	16.05	/	/	<=34.77	Pass
	793	Edge 1RB Left	20.01	/	/	15.05	/	/	<=34.77	Pass
		Edge 1RB Right	20.04	/	/	15.08	/	/	<=34.77	Pass
		Outer Full	20.18	/	/	15.22	/	/	<=34.77	Pass
		Inner Full	21.07	/	/	16.11	/	/	<=34.77	Pass
		Inner 1RB Left	21.00	/	/	16.04	/	/	<=34.77	Pass
		Inner 1RB Right	21.03	/	/	16.07	/	/	<=34.77	Pass
	795.5	Edge 1RB Left	20.13	/	/	15.17	/	/	<=34.77	Pass
		Edge 1RB Right	20.02	/	/	15.06	/	/	<=34.77	Pass
		Outer Full	20.17	/	/	15.21	/	/	<=34.77	Pass
		Inner Full	21.01	/	/	16.05	/	/	<=34.77	Pass
		Inner 1RB Left	21.18	/	/	16.22	/	/	<=34.77	Pass
		Inner 1RB Right	21.17	/	/	16.21	/	/	<=34.77	Pass
CP-OFDM 64 QAM	790.5	Edge 1RB Left	19.69	/	/	14.73	/	/	<=34.77	Pass
		Edge 1RB Right	19.70	/	/	14.74	/	/	<=34.77	Pass
		Outer Full	19.64	/	/	14.68	/	/	<=34.77	Pass
		Inner Full	19.61	/	/	14.65	/	/	<=34.77	Pass
		Inner 1RB Left	19.72	/	/	14.76	/	/	<=34.77	Pass
		Inner 1RB Right	19.62	/	/	14.66	/	/	<=34.77	Pass
	793	Edge 1RB Left	19.60	/	/	14.64	/	/	<=34.77	Pass
		Edge 1RB Right	19.61	/	/	14.65	/	/	<=34.77	Pass
		Outer Full	19.58	/	/	14.62	/	/	<=34.77	Pass
		Inner Full	19.66	/	/	14.70	/	/	<=34.77	Pass
		Inner 1RB Left	19.58	/	/	14.62	/	/	<=34.77	Pass
		Inner 1RB Right	19.65	/	/	14.69	/	/	<=34.77	Pass
	795.5	Edge 1RB Left	19.69	/	/	14.73	/	/	<=34.77	Pass
		Edge 1RB Right	19.60	/	/	14.64	/	/	<=34.77	Pass
		Outer Full	19.64	/	/	14.68	/	/	<=34.77	Pass
		Inner Full	19.72	/	/	14.76	/	/	<=34.77	Pass
		Inner 1RB Left	19.77	/	/	14.81	/	/	<=34.77	Pass
		Inner 1RB Right	19.67	/	/	14.71	/	/	<=34.77	Pass
CP-OFDM 256 QAM	790.5	Edge 1RB Left	16.14	/	/	11.18	/	/	<=34.77	Pass
		Edge 1RB Right	16.22	/	/	11.26	/	/	<=34.77	Pass

		Outer_Full	16.73	/	/	11.77	/	/	<=34.77	Pass
		Inner_Full	16.69	/	/	11.73	/	/	<=34.77	Pass
		Inner_1RB_Left	16.13	/	/	11.17	/	/	<=34.77	Pass
		Inner_1RB_Right	16.21	/	/	11.25	/	/	<=34.77	Pass
	793	Edge_1RB_Left	16.14	/	/	11.18	/	/	<=34.77	Pass
		Edge_1RB_Right	16.15	/	/	11.19	/	/	<=34.77	Pass
		Outer_Full	16.63	/	/	11.67	/	/	<=34.77	Pass
		Inner_Full	16.73	/	/	11.77	/	/	<=34.77	Pass
		Inner_1RB_Left	16.22	/	/	11.26	/	/	<=34.77	Pass
		Inner_1RB_Right	16.17	/	/	11.21	/	/	<=34.77	Pass
	795.5	Edge_1RB_Left	16.19	/	/	11.23	/	/	<=34.77	Pass
		Edge_1RB_Right	16.16	/	/	11.20	/	/	<=34.77	Pass
		Outer_Full	16.61	/	/	11.65	/	/	<=34.77	Pass
		Inner_Full	16.72	/	/	11.76	/	/	<=34.77	Pass
		Inner_1RB_Left	16.19	/	/	11.23	/	/	<=34.77	Pass
		Inner_1RB_Right	16.19	/	/	11.23	/	/	<=34.77	Pass
Note1: Antenna Gain: Ant0: -2.81dBi; Note2: ERP=Conducted Power+Antenna Gain-2.15										

1.1.2 15_S_10M_NTNV_ERP

5G NR n14 SCS=15kHz SISO 10MHz NTN										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			ERP(dBm)				Verdict
			Ant0	Ant2	Sum	Ant0	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	793	Edge_1RB_Left	22.57	/	/	17.61	/	/	<=34.77	Pass
		Edge_1RB_Right	22.49	/	/	17.53	/	/	<=34.77	Pass
		Outer_Full	22.66	/	/	17.70	/	/	<=34.77	Pass
		Inner_Full	23.05	/	/	18.09	/	/	<=34.77	Pass
		Inner_1RB_Left	23.03	/	/	18.07	/	/	<=34.77	Pass
		Inner_1RB_Right	23.00	/	/	18.04	/	/	<=34.77	Pass
DFT-s-OFDM QPSK	793	Edge_1RB_Left	22.05	/	/	17.09	/	/	<=34.77	Pass
		Edge_1RB_Right	22.09	/	/	17.13	/	/	<=34.77	Pass
		Outer_Full	22.11	/	/	17.15	/	/	<=34.77	Pass
		Inner_Full	23.17	/	/	18.21	/	/	<=34.77	Pass
		Inner_1RB_Left	23.08	/	/	18.12	/	/	<=34.77	Pass
		Inner_1RB_Right	23.08	/	/	18.12	/	/	<=34.77	Pass
DFT-s-OFDM 16 QAM	793	Edge_1RB_Left	21.04	/	/	16.08	/	/	<=34.77	Pass
		Edge_1RB_Right	21.07	/	/	16.11	/	/	<=34.77	Pass
		Outer_Full	21.14	/	/	16.18	/	/	<=34.77	Pass
		Inner_Full	22.22	/	/	17.26	/	/	<=34.77	Pass
		Inner_1RB_Left	22.01	/	/	17.05	/	/	<=34.77	Pass
		Inner_1RB_Right	21.93	/	/	16.97	/	/	<=34.77	Pass
DFT-s-OFDM 64 QAM	793	Edge_1RB_Left	20.82	/	/	15.86	/	/	<=34.77	Pass
		Edge_1RB_Right	20.75	/	/	15.79	/	/	<=34.77	Pass
		Outer_Full	20.69	/	/	15.73	/	/	<=34.77	Pass
		Inner_Full	20.67	/	/	15.71	/	/	<=34.77	Pass
		Inner_1RB_Left	20.75	/	/	15.79	/	/	<=34.77	Pass
		Inner_1RB_Right	20.76	/	/	15.80	/	/	<=34.77	Pass
DFT-s-OFDM 256 QAM	793	Edge_1RB_Left	17.95	/	/	12.99	/	/	<=34.77	Pass
		Edge_1RB_Right	18.10	/	/	13.14	/	/	<=34.77	Pass
		Outer_Full	18.66	/	/	13.70	/	/	<=34.77	Pass

		Inner Full	18.65	/	/	13.69	/	/	<=34.77	Pass
		Inner 1RB Left	17.99	/	/	13.03	/	/	<=34.77	Pass
		Inner 1RB Right	18.13	/	/	13.17	/	/	<=34.77	Pass
CP-OFDM QPSK	793	Edge 1RB Left	20.16	/	/	15.20	/	/	<=34.77	Pass
		Edge 1RB Right	20.02	/	/	15.06	/	/	<=34.77	Pass
		Outer Full	20.13	/	/	15.17	/	/	<=34.77	Pass
		Inner Full	21.62	/	/	16.66	/	/	<=34.77	Pass
		Inner 1RB Left	21.55	/	/	16.59	/	/	<=34.77	Pass
		Inner 1RB Right	21.56	/	/	16.60	/	/	<=34.77	Pass
CP-OFDM 16 QAM	793	Edge 1RB Left	20.09	/	/	15.13	/	/	<=34.77	Pass
		Edge 1RB Right	19.97	/	/	15.01	/	/	<=34.77	Pass
		Outer Full	20.15	/	/	15.19	/	/	<=34.77	Pass
		Inner Full	21.18	/	/	16.22	/	/	<=34.77	Pass
		Inner 1RB Left	21.09	/	/	16.13	/	/	<=34.77	Pass
		Inner 1RB Right	21.02	/	/	16.06	/	/	<=34.77	Pass
CP-OFDM 64 QAM	793	Edge 1RB Left	19.67	/	/	14.71	/	/	<=34.77	Pass
		Edge 1RB Right	19.61	/	/	14.65	/	/	<=34.77	Pass
		Outer Full	19.62	/	/	14.66	/	/	<=34.77	Pass
		Inner Full	19.69	/	/	14.73	/	/	<=34.77	Pass
		Inner 1RB Left	19.65	/	/	14.69	/	/	<=34.77	Pass
		Inner 1RB Right	19.60	/	/	14.64	/	/	<=34.77	Pass
CP-OFDM 256 QAM	793	Edge 1RB Left	16.02	/	/	11.06	/	/	<=34.77	Pass
		Edge 1RB Right	16.17	/	/	11.21	/	/	<=34.77	Pass
		Outer Full	16.63	/	/	11.67	/	/	<=34.77	Pass
		Inner Full	16.64	/	/	11.68	/	/	<=34.77	Pass
		Inner 1RB Left	16.06	/	/	11.10	/	/	<=34.77	Pass
		Inner 1RB Right	16.10	/	/	11.14	/	/	<=34.77	Pass

Note1: Antenna Gain: Ant0: -2.81dBi;

Note2: ERP=Conducted Power+Antenna Gain-2.15

2. Frequency Stability

2.1 Test Result

2.1.1 15_S_10M

5G NR n14 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	793	Outer_Full	20	LV	3.80	0.0048	>=-2.5 & <=2.5	Pass
				HV	1.30	0.0016	>=-2.5 & <=2.5	Pass
			-30	NV	0.30	0.0004	>=-2.5 & <=2.5	Pass
			-20	NV	1.70	0.0021	>=-2.5 & <=2.5	Pass
			-10	NV	6.10	0.0077	>=-2.5 & <=2.5	Pass
			0	NV	1.30	0.0016	>=-2.5 & <=2.5	Pass
			10	NV	-1.20	-0.0015	>=-2.5 & <=2.5	Pass
			20	NV	3.20	0.0040	>=-2.5 & <=2.5	Pass
			30	NV	-5.50	-0.0069	>=-2.5 & <=2.5	Pass
			40	NV	2.60	0.0033	>=-2.5 & <=2.5	Pass
			50	NV	1.90	0.0024	>=-2.5 & <=2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 15_S_5M_NTNV

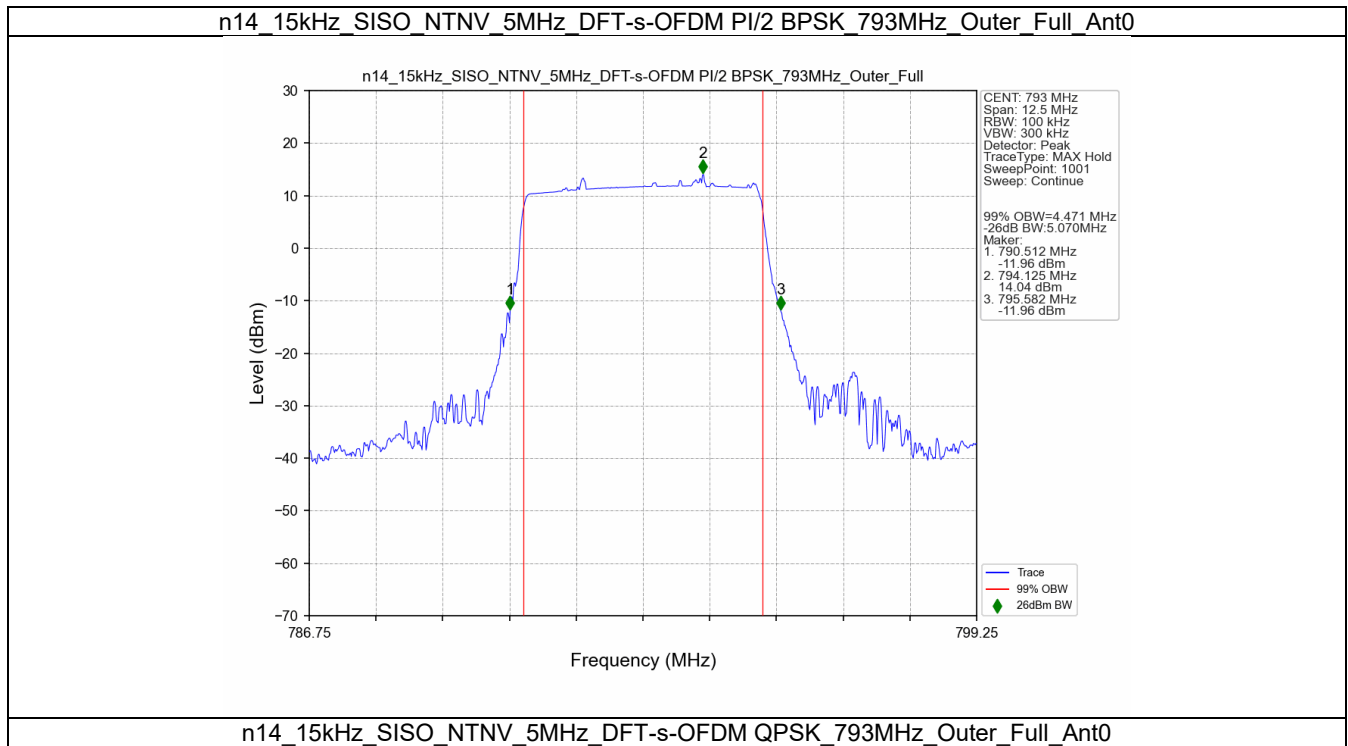
5G NR n14 SCS=15kHz SISO 5MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	793	Outer_Full	4.47	5.07	/	Pass
DFT-s-OFDM QPSK	793	Outer_Full	4.48	5.05	/	Pass
DFT-s-OFDM 16 QAM	793	Outer_Full	4.49	5.05	/	Pass
DFT-s-OFDM 64 QAM	793	Outer_Full	4.50	5.12	/	Pass
DFT-s-OFDM 256 QAM	793	Outer_Full	4.49	5.11	/	Pass
CP-OFDM QPSK	793	Outer_Full	4.52	5.30	/	Pass
CP-OFDM 16 QAM	793	Outer_Full	4.53	5.20	/	Pass
CP-OFDM 64 QAM	793	Outer_Full	4.51	5.22	/	Pass
CP-OFDM 256 QAM	793	Outer_Full	4.51	5.19	/	Pass

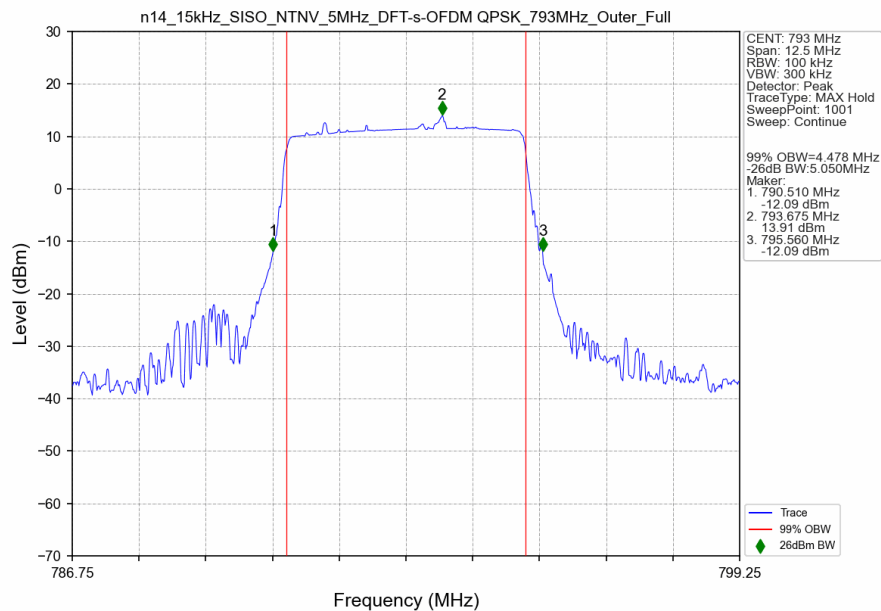
3.1.2 15_S_10M_NTNV

5G NR n14 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	793	Outer_Full	8.89	9.54	/	Pass
DFT-s-OFDM QPSK	793	Outer_Full	8.90	9.64	/	Pass
DFT-s-OFDM 16 QAM	793	Outer_Full	8.91	9.59	/	Pass
DFT-s-OFDM 64 QAM	793	Outer_Full	8.89	9.59	/	Pass
DFT-s-OFDM 256 QAM	793	Outer_Full	8.91	9.52	/	Pass
CP-OFDM QPSK	793	Outer_Full	9.27	10.05	/	Pass
CP-OFDM 16 QAM	793	Outer_Full	9.25	9.98	/	Pass
CP-OFDM 64 QAM	793	Outer_Full	9.28	9.96	/	Pass
CP-OFDM 256 QAM	793	Outer_Full	9.28	9.94	/	Pass

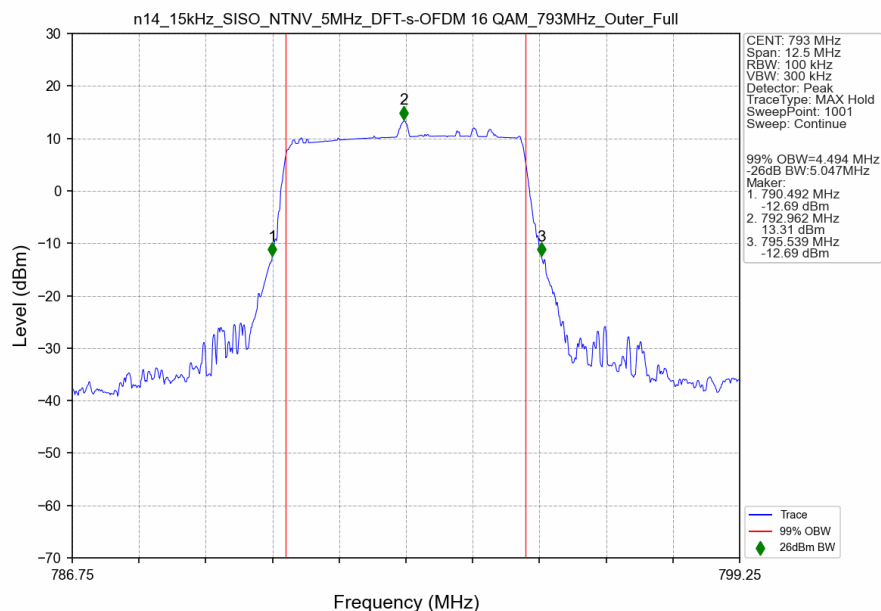
3.2 Test Graph

3.2.1 15_S_5M_NTNV

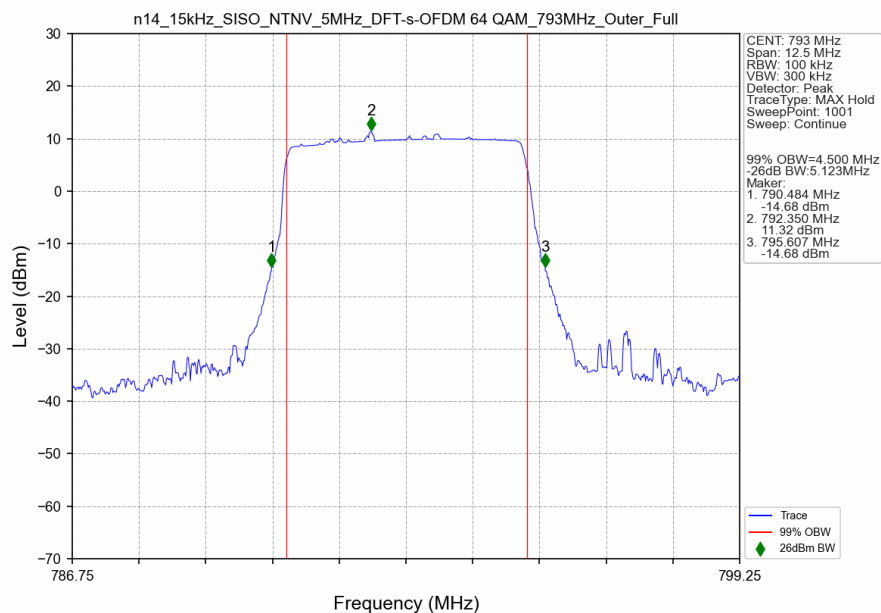




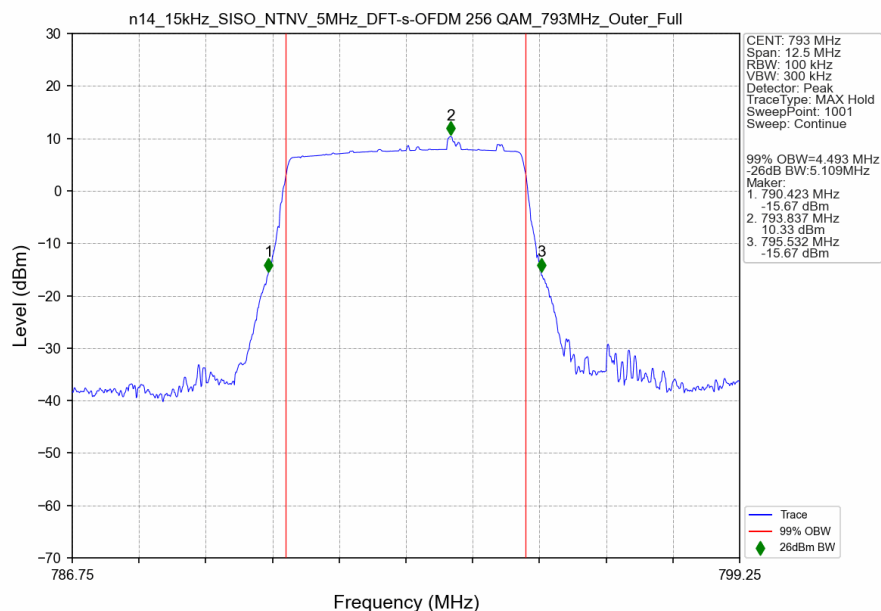
n14_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_16_QAM_793MHz_Outer_Full_Ant0



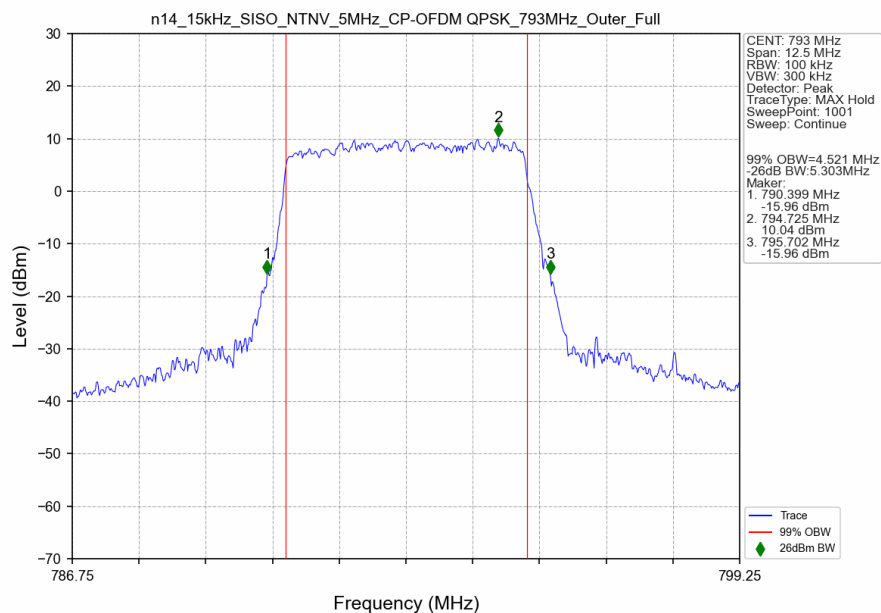
n14_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_64_QAM_793MHz_Outer_Full_Ant0



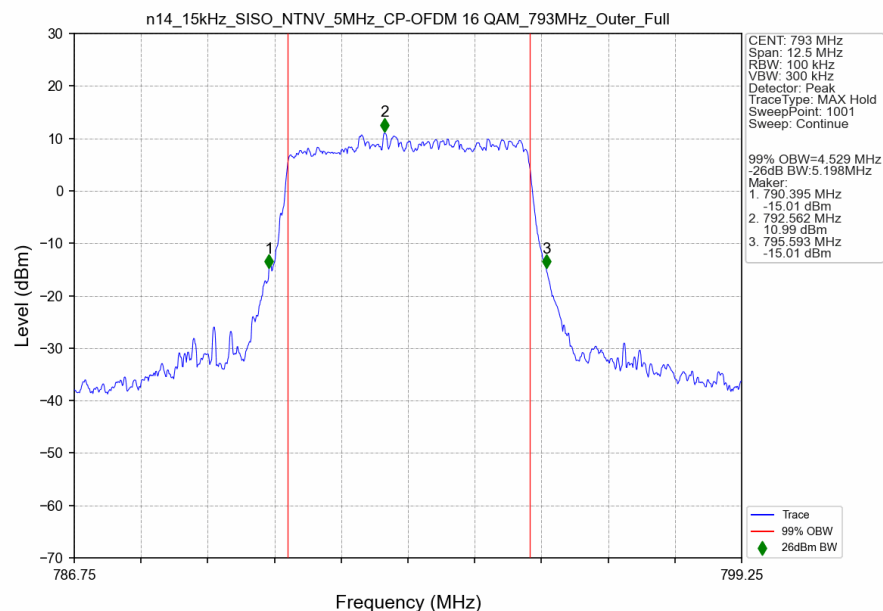
n14_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM 256 QAM 793MHz_Outer_Full_Ant0



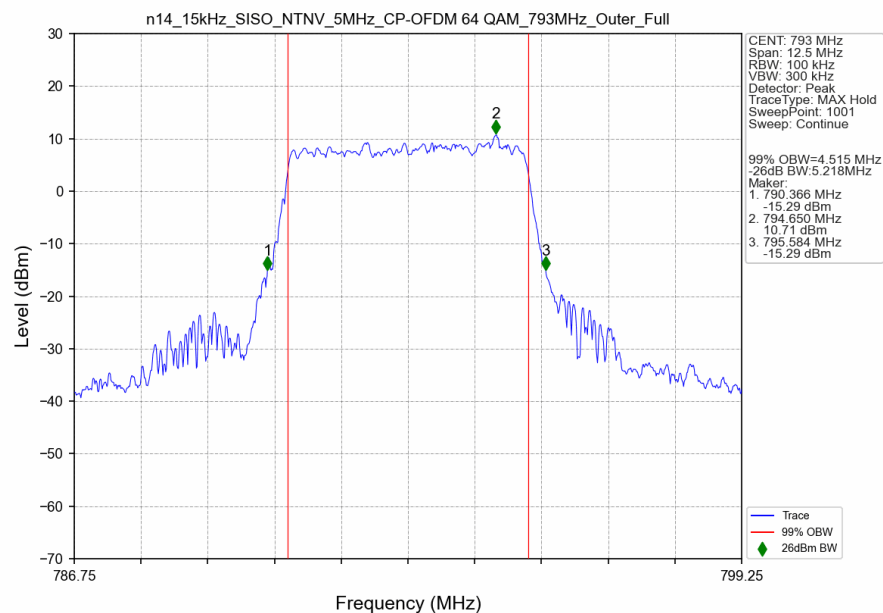
n14_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK 793MHz_Outer_Full_Ant0



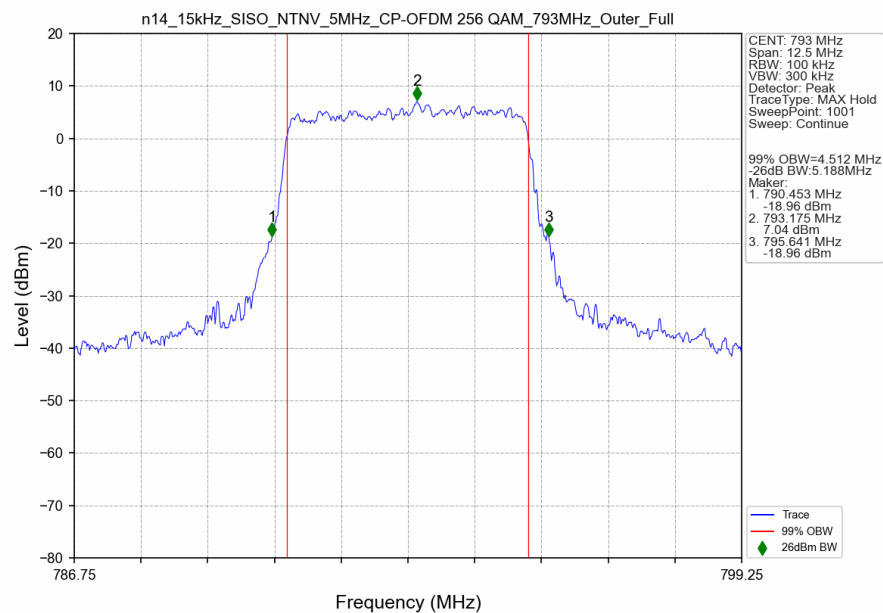
n14_15kHz_SISO_NTNV_5MHz_CP-OFDM 16 QAM_793MHz_Outer_Full_Ant0



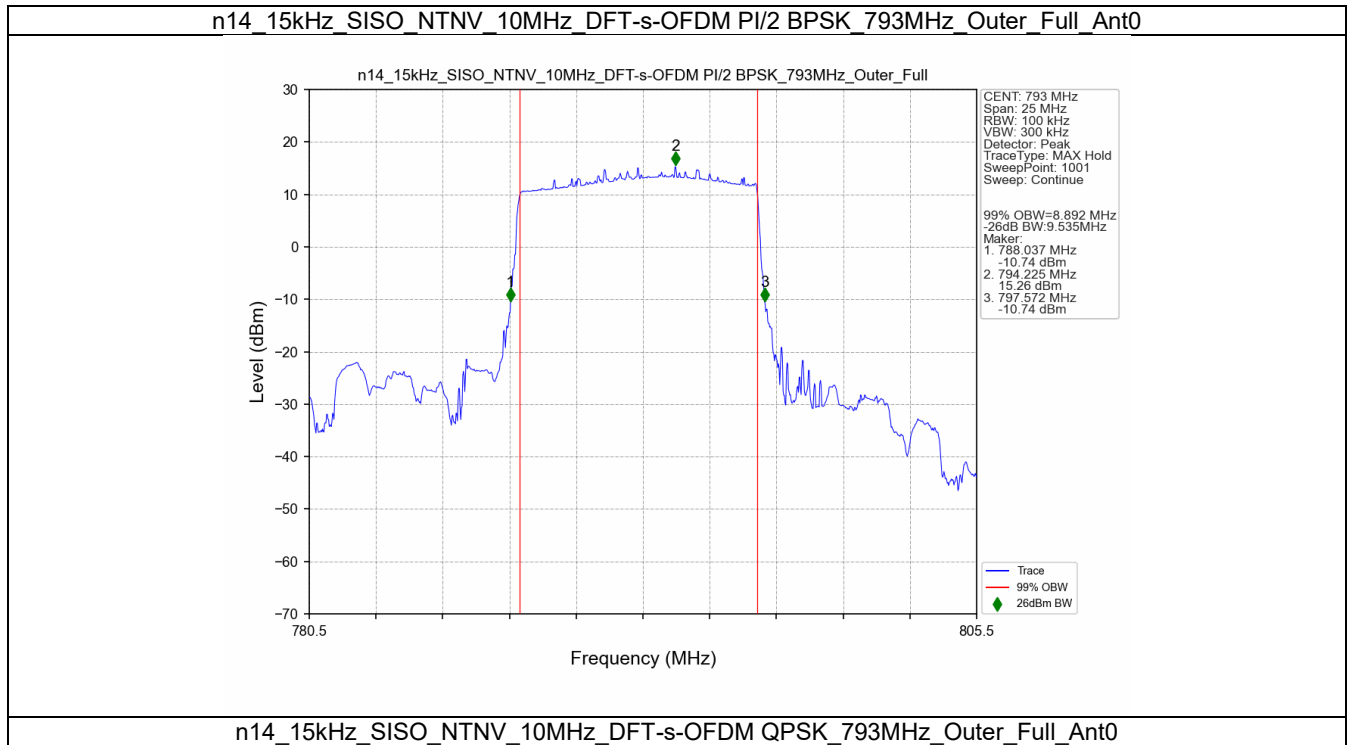
n14_15kHz_SISO_NTNV_5MHz_CP-OFDM 64 QAM_793MHz_Outer_Full_Ant0

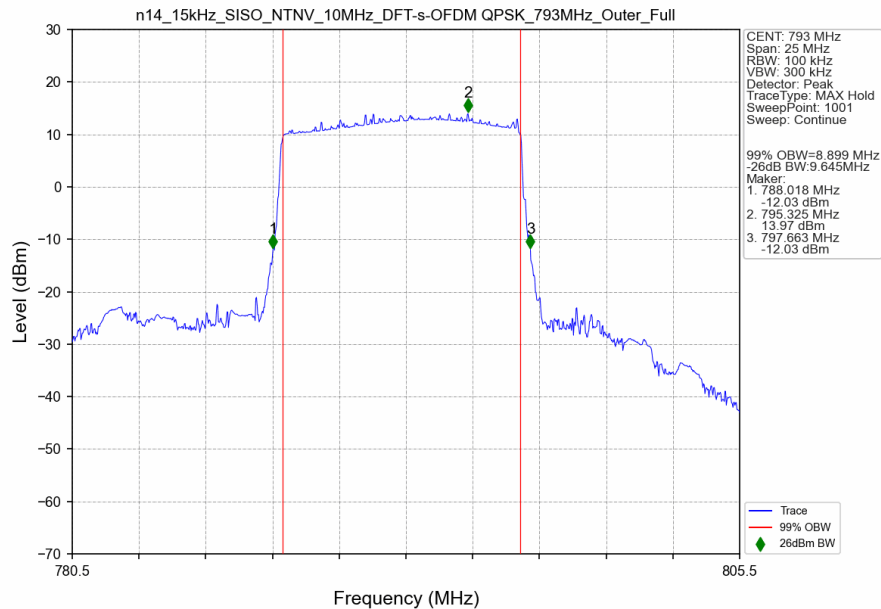


n14_15kHz_SISO_NTNV_5MHz_CP-OFDM 256 QAM_793MHz_Outer_Full_Ant0

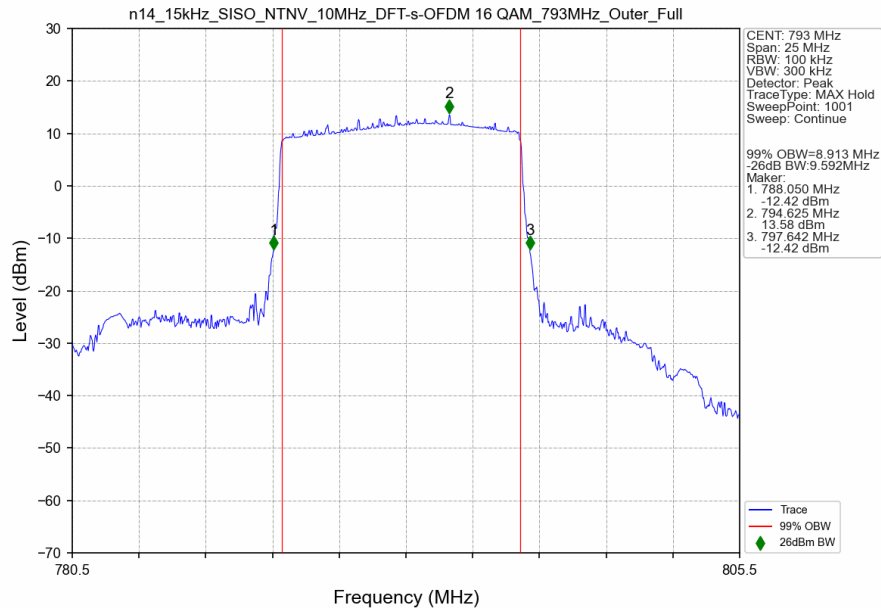


3.2.2 15_S_10M_NTNV

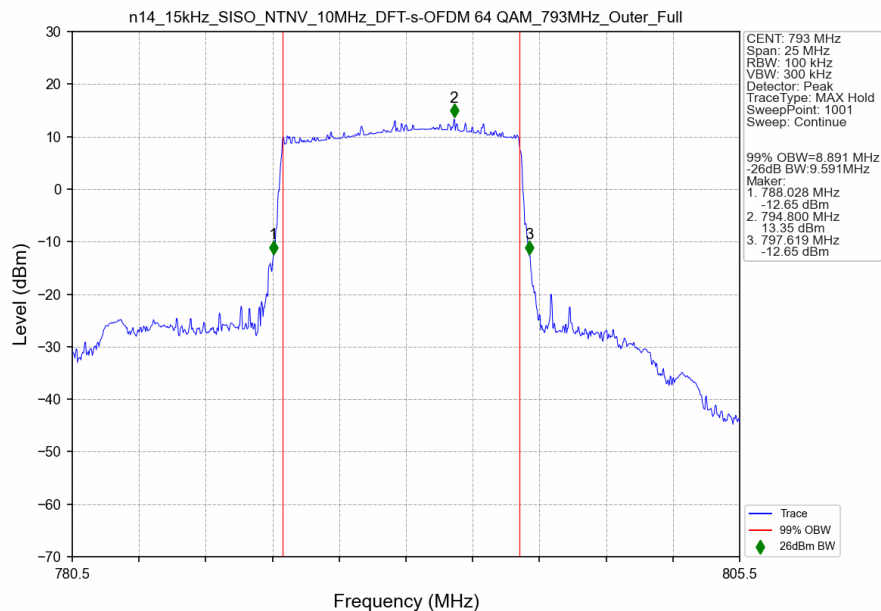




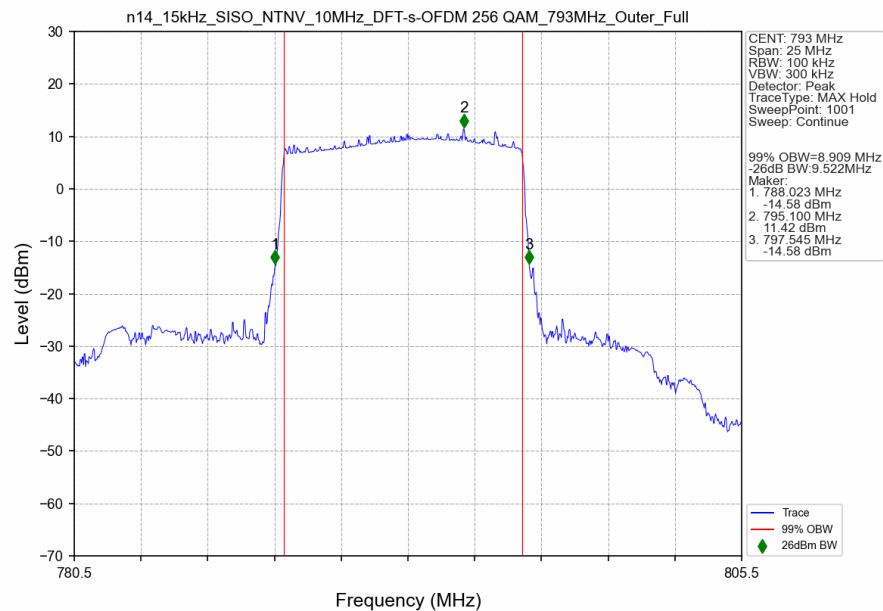
n14_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 16 QAM_793MHz_Outer_Full_Ant0



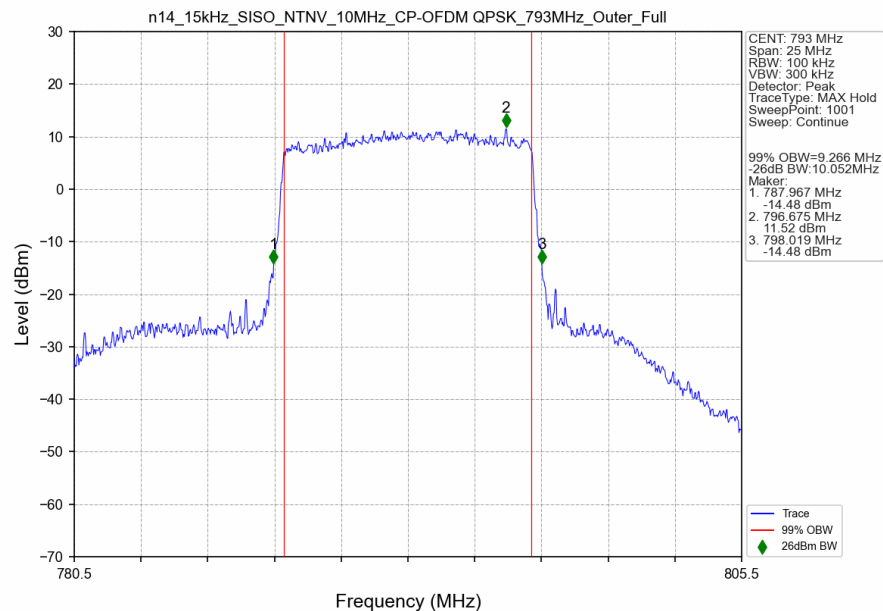
n14_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 64 QAM_793MHz_Outer_Full_Ant0



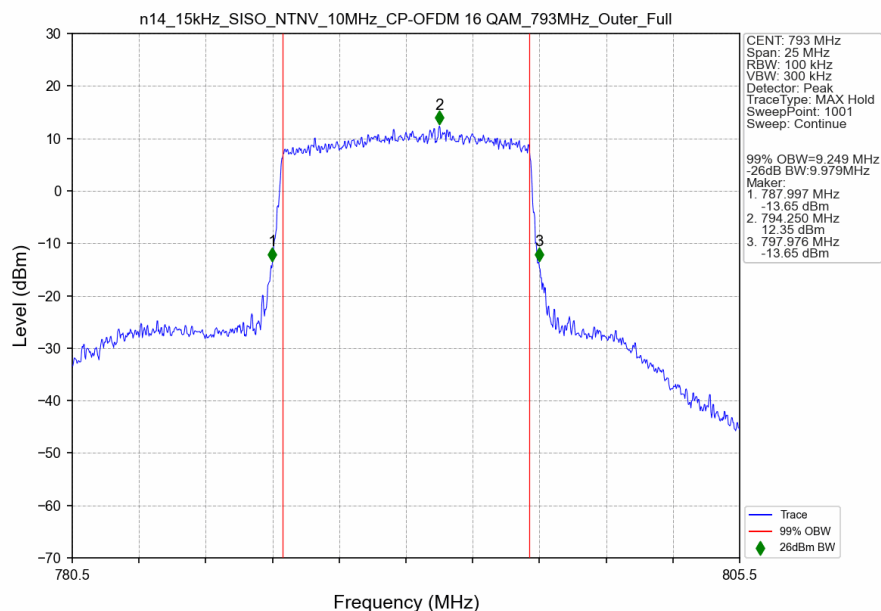
n14_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 256 QAM_793MHz_Outer_Full_Ant0



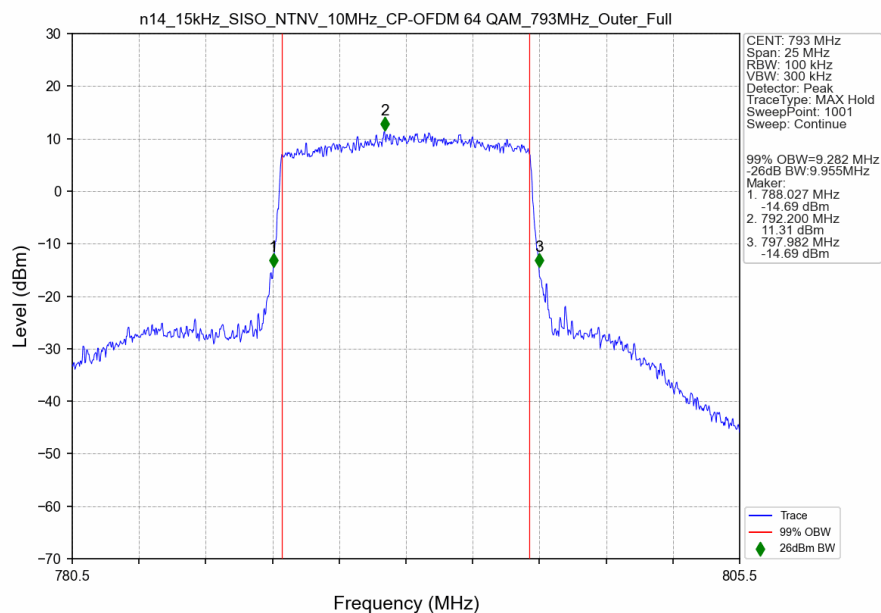
n14_15kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_793MHz_Outer_Full_Ant0



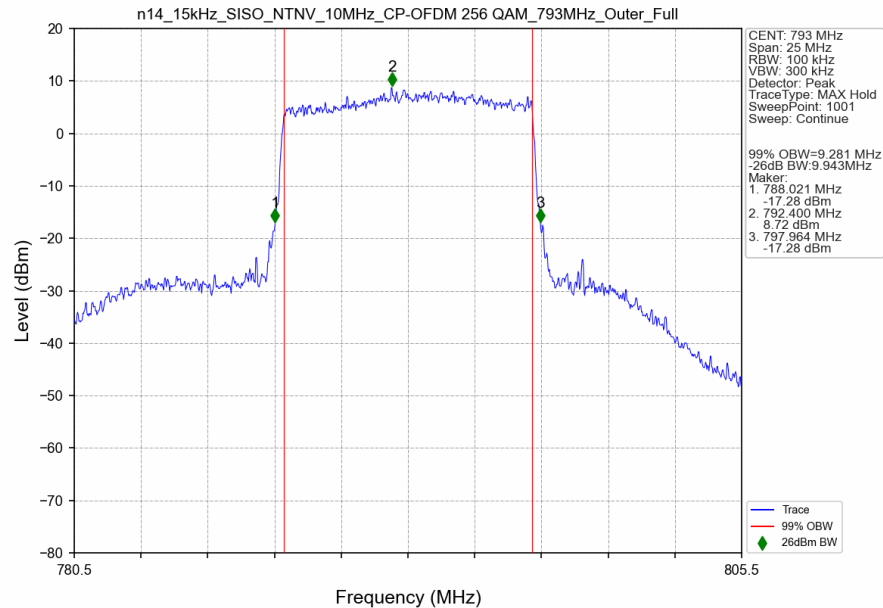
n14_15kHz_SISO_NTNV_10MHz_CP-OFDM 16 QAM 793MHz_Outer_Full_Ant0



n14_15kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM 793MHz_Outer_Full_Ant0



n14_15kHz_SISO_NTNV_10MHz_CP-OFDM_256_QAM_793MHz_Outer_Full_Ant0





4. Peak-Average Ratio

4.1 Test Result

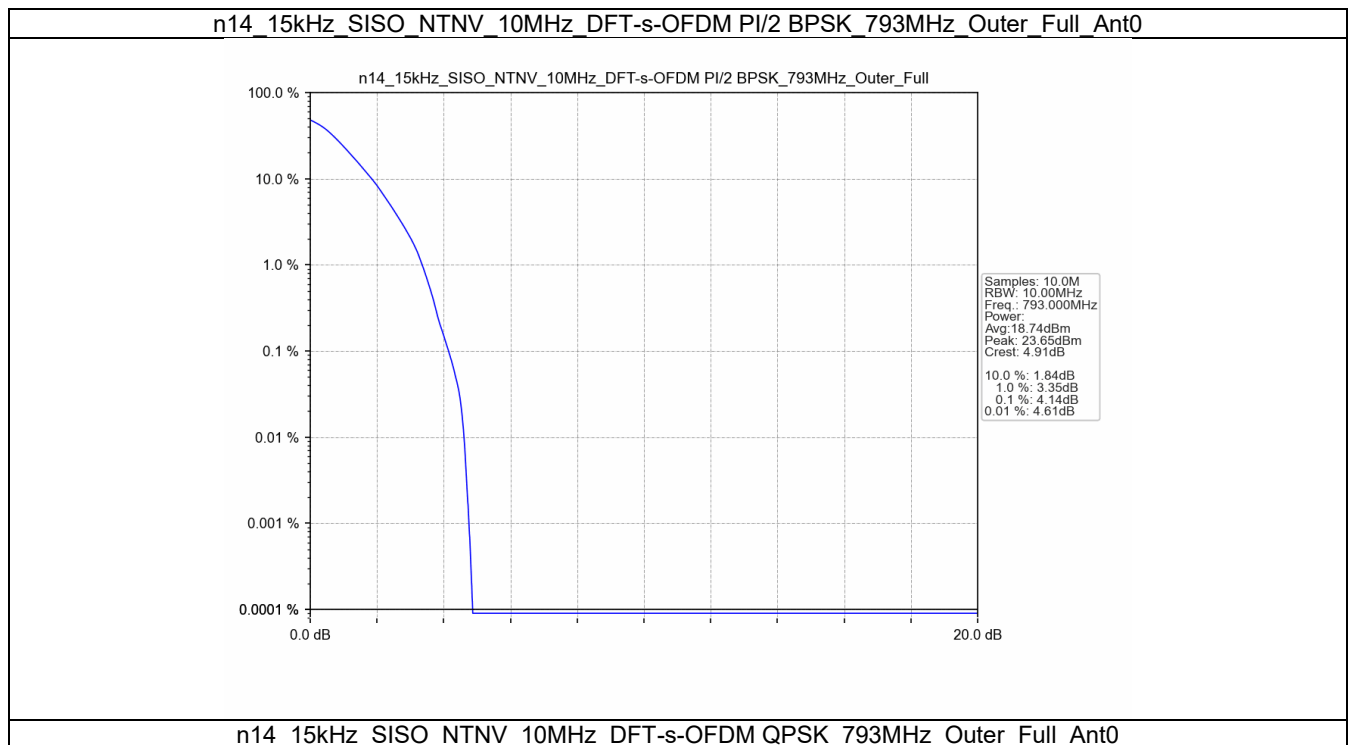
4.1.1 15_S_10M_NTNV

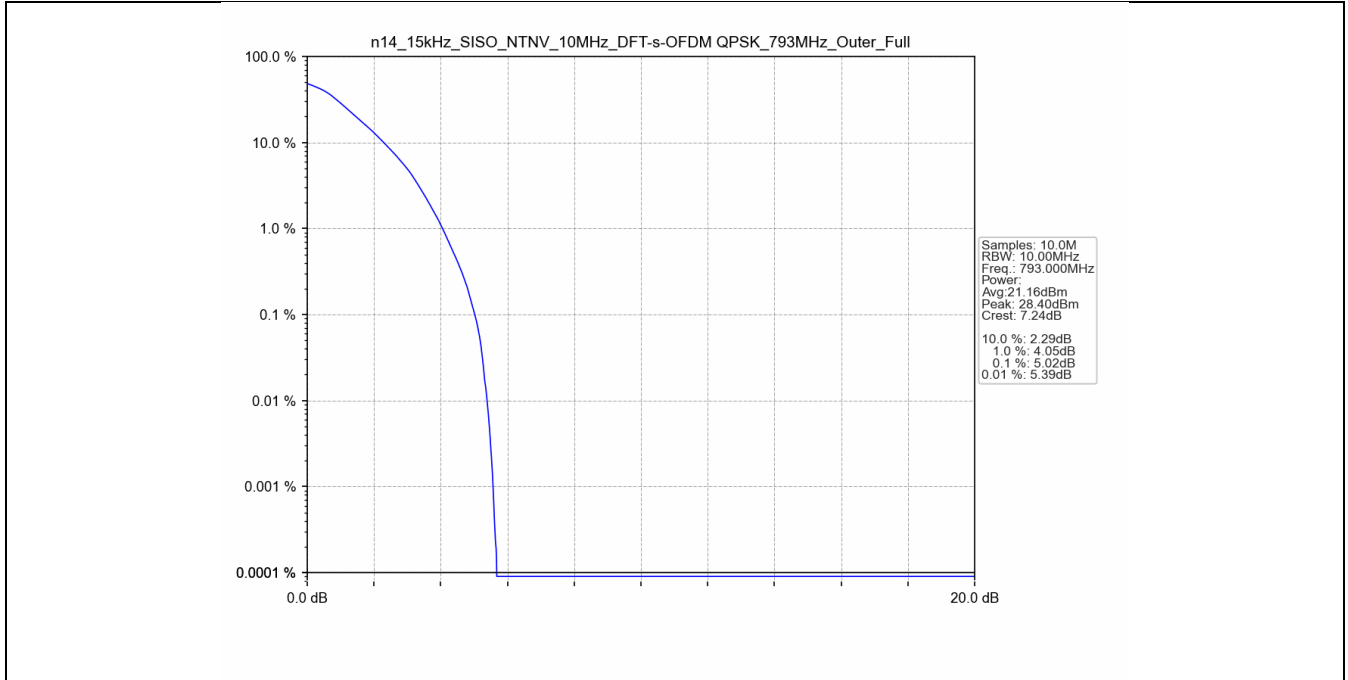
5G NR n14 SCS=15kHz SISO 10MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant0	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	793	Outer_Full	4.14	/	/	<=13	Pass
DFT-s-OFDM QPSK	793	Outer_Full	5.02	/	/	<=13	Pass
CP-OFDM QPSK	793	Outer_Full	7.40	/	/	<=13	Pass



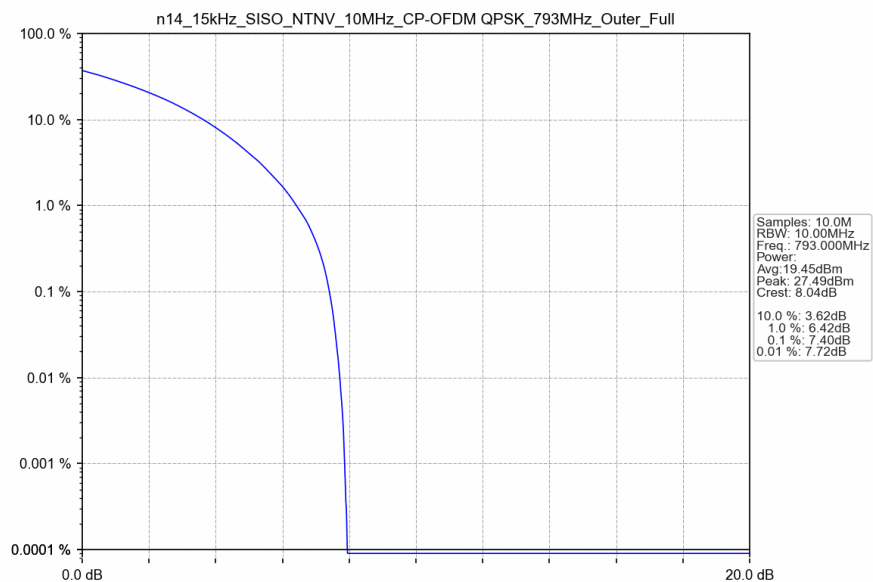
4.2 Test Graph

4.2.1 15_S_10M_NTNV





n14_15kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_793MHz_Outer_Full_Ant0





5. Spurious Emission

5.1 Test Result

5.1.1 15_S_5M_NTNV

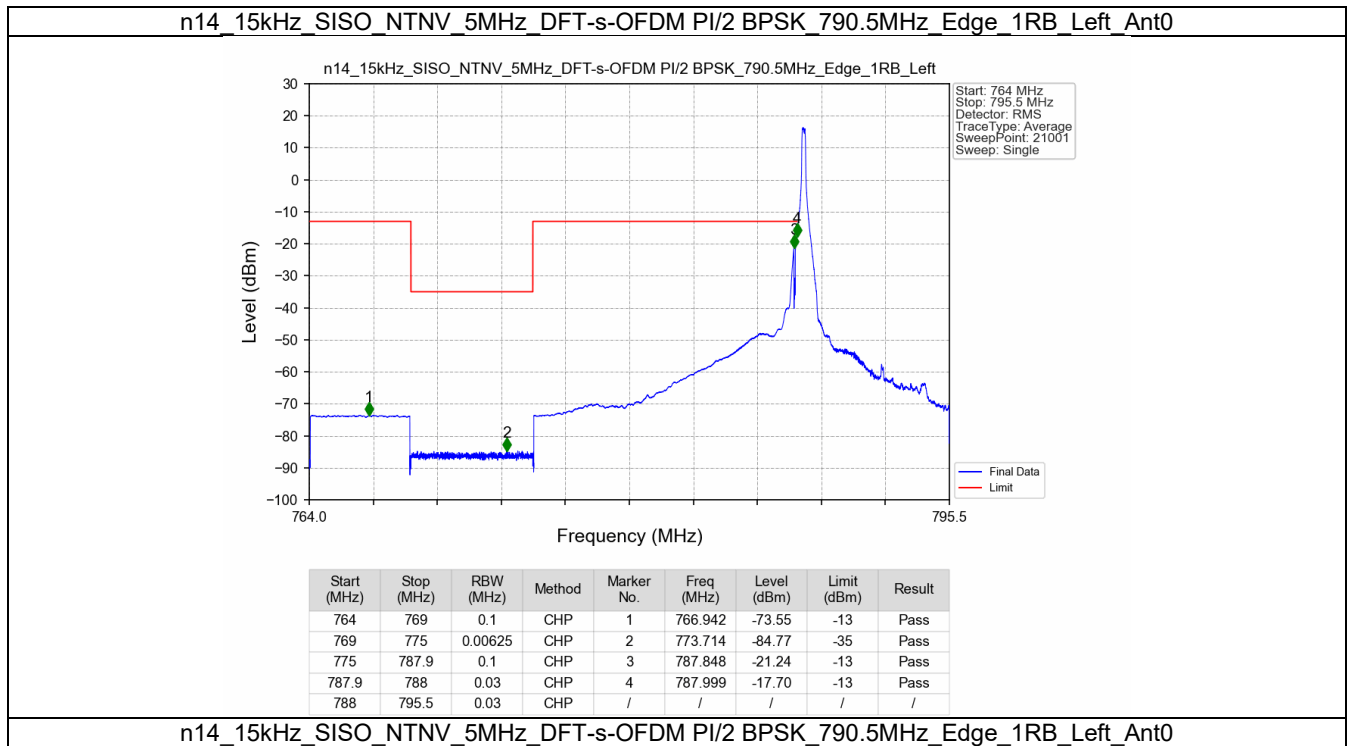
5G NR n14 SCS=15kHz SISO 5MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission				Verdict
			Ant0	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	790.5	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
	793	Edge_1RB_Left	Refer To Test Graph				Pass
		795.5	Edge_1RB_Right	Refer To Test Graph			
	Outer_Full		Refer To Test Graph				Pass
	DFT-s-OFDM QPSK	790.5	Edge_1RB_Left	Refer To Test Graph			
Outer_Full			Refer To Test Graph				Pass
793		Edge_1RB_Left	Refer To Test Graph				Pass
		795.5	Edge_1RB_Right	Refer To Test Graph			
Outer_Full			Refer To Test Graph				Pass
CP-OFDM QPSK		790.5	Edge_1RB_Left	Refer To Test Graph			
	Outer_Full		Refer To Test Graph				Pass
	793	Edge_1RB_Left	Refer To Test Graph				Pass
		795.5	Edge_1RB_Right	Refer To Test Graph			
	Outer_Full		Refer To Test Graph				Pass

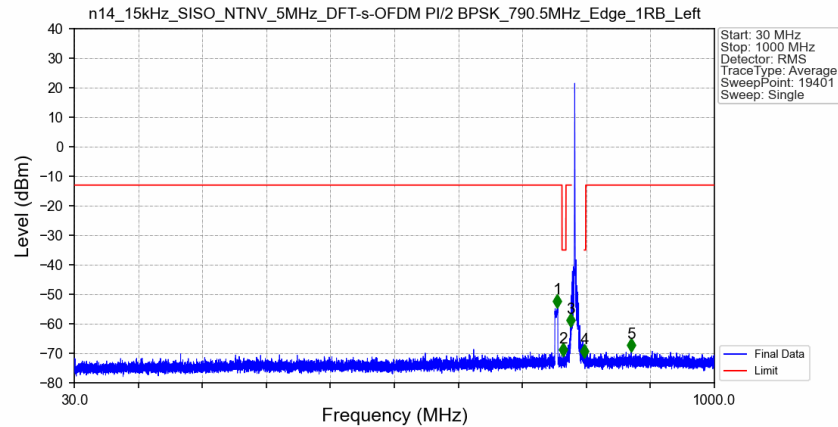
5.1.2 15_S_10M_NTNV

5G NR n14 SCS=15kHz SISO 10MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission				Verdict
			Ant0	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	793	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
	793	Edge_1RB_Right	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
DFT-s-OFDM QPSK	793	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
	793	Edge_1RB_Right	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
CP-OFDM QPSK	793	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
	793	Edge_1RB_Right	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass

5.2 Test Graph

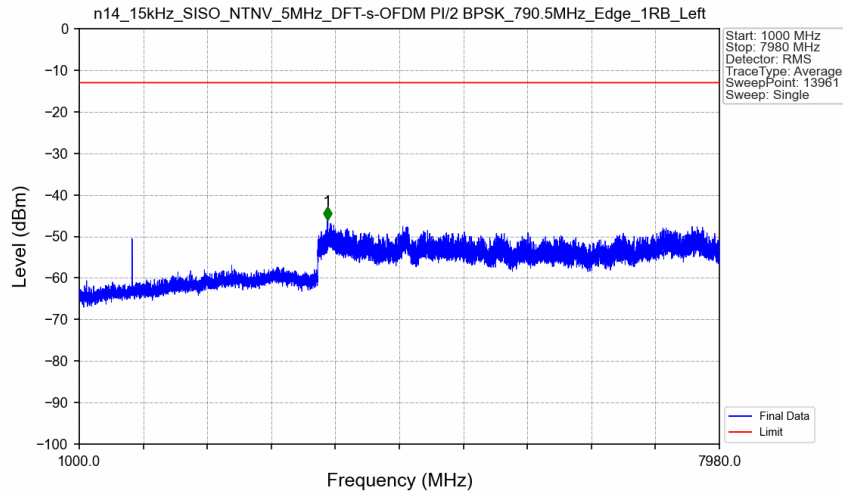
5.2.1 15_S_5M_NTNV





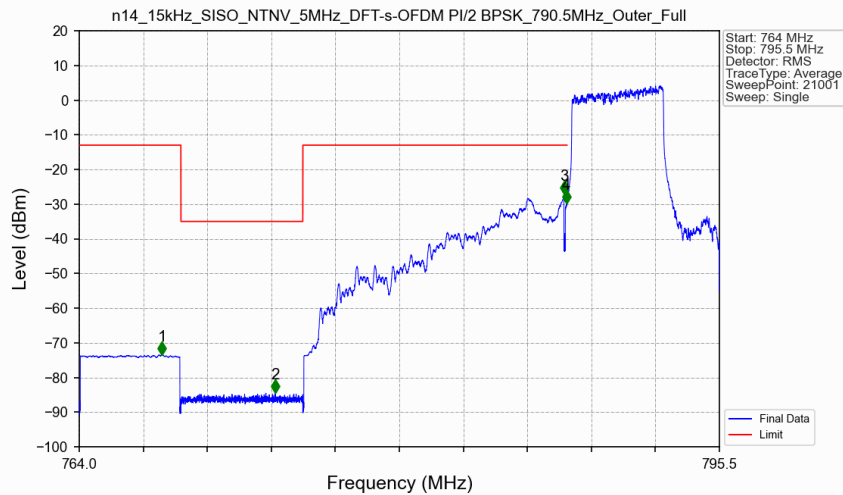
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	769	0.1	/	1	762.000	-54.15	-13	Pass
769	775	0.1	/	2	770.800	-70.60	-35	Pass
775	787.9	0.1	/	3	781.850	-60.61	-13	Pass
787.9	803	0.1	/	/	/	/	/	/
803	805	0.1	/	4	803.050	-71.03	-35	Pass
805	1000	0.1	/	5	873.850	-69.18	-13	Pass

n14_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK 790.5MHz_Edge_1RB_Left_Ant0



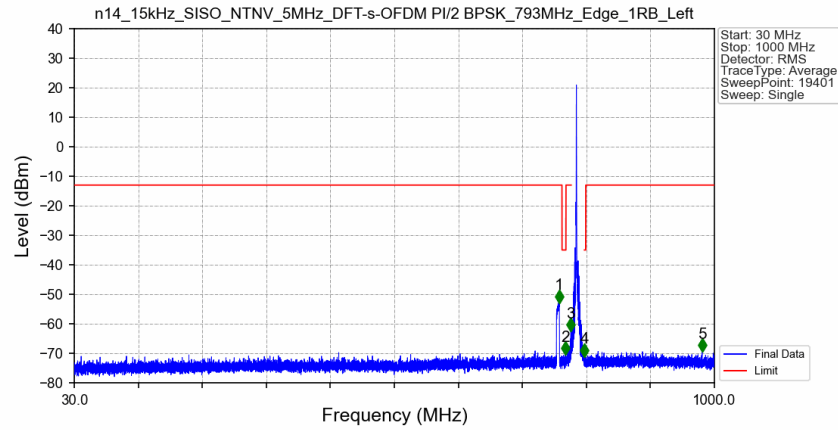
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	7980	1	/	1	3702.500	-46.08	-13	Pass

n14_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK 790.5MHz_Outer_Full_Ant0



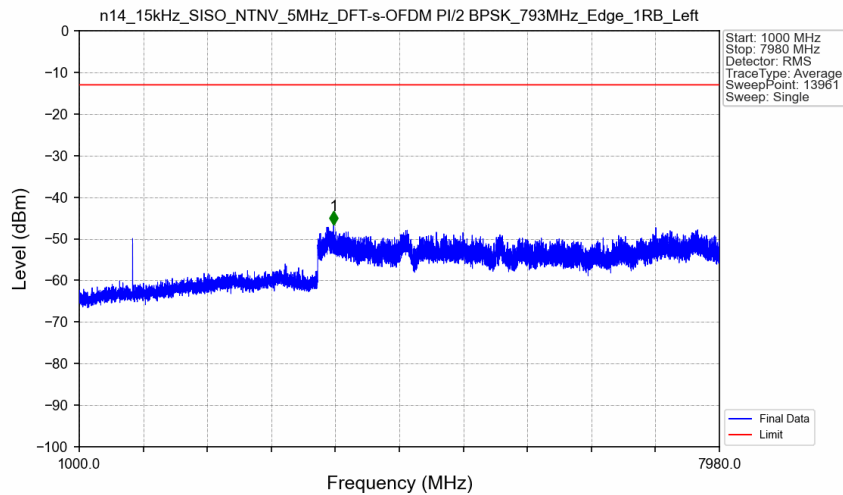
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
764	769	0.1	CHP	1	768.074	-73.45	-13	Pass
769	775	0.00625	CHP	2	773.648	-84.38	-35	Pass
775	787.9	0.1	CHP	3	787.848	-27.25	-13	Pass
787.9	788	0.03	CHP	4	787.964	-29.71	-13	Pass
788	795.5	0.03	CHP	/	/	/	/	/

n14_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_793MHz_Edge_1RB_Left_Ant0



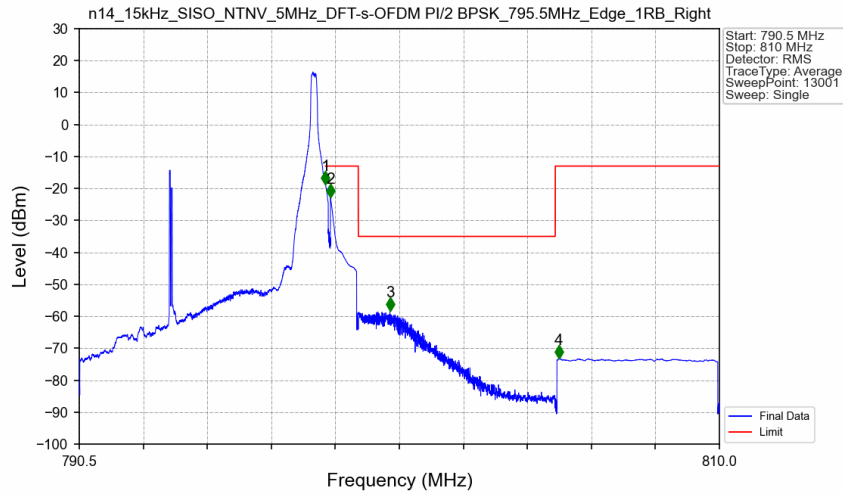
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	769	0.1	/	1	764.400	-52.59	-13	Pass
769	775	0.1	/	2	774.150	-70.12	-35	Pass
775	787.9	0.1	/	3	782.500	-62.26	-13	Pass
787.9	803	0.1	/	/	/	/	/	/
803	805	0.1	/	4	803.050	-70.81	-35	Pass
805	1000	0.1	/	5	981.350	-69.16	-13	Pass

n14_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_793MHz_Edge_1RB_Left_Ant0



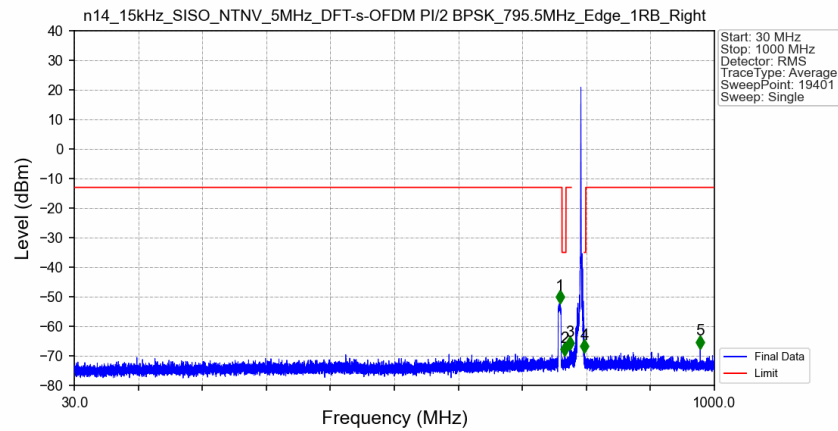
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	7980	1	/	1	3773.500	-46.65	-13	Pass

n14_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_PI/2_BPSK_795.5MHz_Edge_1RB_Right_Ant0



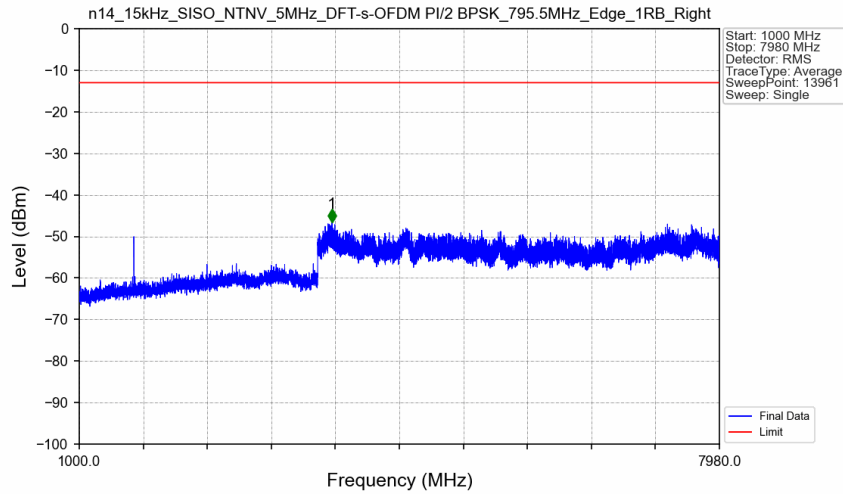
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
790.5	798	0.03	CHP	/	/	/	/	/
798	798.1	0.03	CHP	1	798.001	-18.69	-13	Pass
798.1	799	0.1	CHP	2	798.152	-22.81	-13	Pass
799	805	0.00625	CHP	3	799.962	-58.32	-35	Pass
805	810	0.1	CHP	4	805.109	-73.28	-13	Pass

n14_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_PI/2_BPSK_795.5MHz_Edge_1RB_Right_Ant0



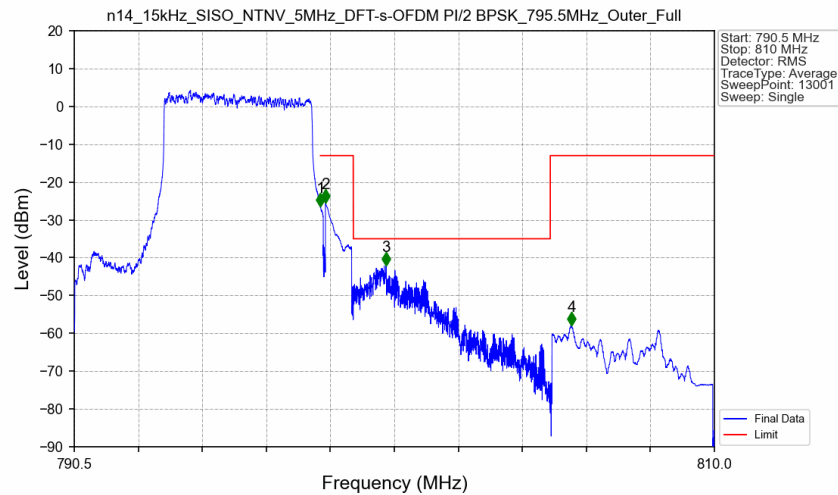
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	769	0.1	/	1	765.700	-51.86	-13	Pass
769	775	0.1	/	2	773.100	-69.71	-35	Pass
775	787.9	0.1	/	3	780.750	-67.49	-13	Pass
787.9	803	0.1	/	/	/	/	/	/
803	805	0.1	/	4	803.300	-68.55	-35	Pass
805	1000	0.1	/	5	978.450	-67.20	-13	Pass

n14_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_795.5MHz_Edge_1RB_Right_Ant0



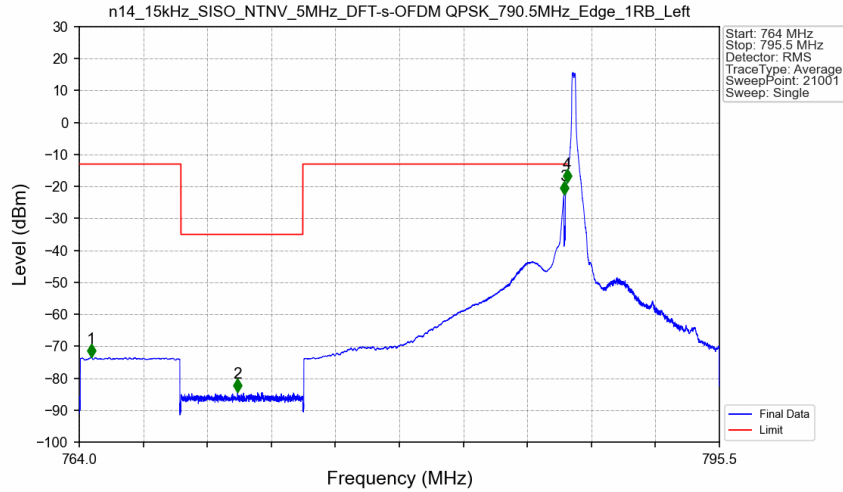
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	7980	1	/	1	3755.500	-46.56	-13	Pass

n14_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_795.5MHz_Outer_Full_Ant0



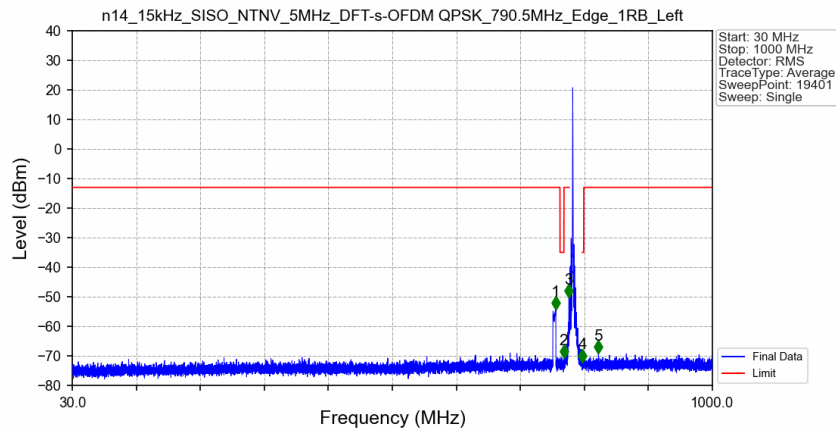
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
790.5	798	0.03	CHP	/	/	/	/	/
798	798.1	0.03	CHP	1	798.001	-26.52	-13	Pass
798.1	799	0.1	CHP	2	798.152	-25.41	-13	Pass
799	805	0.00625	CHP	3	799.996	-42.13	-35	Pass
805	810	0.1	CHP	4	805.653	-57.97	-13	Pass

n14_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_QPSK_790.5MHz_Edge_1RB_Left_Ant0



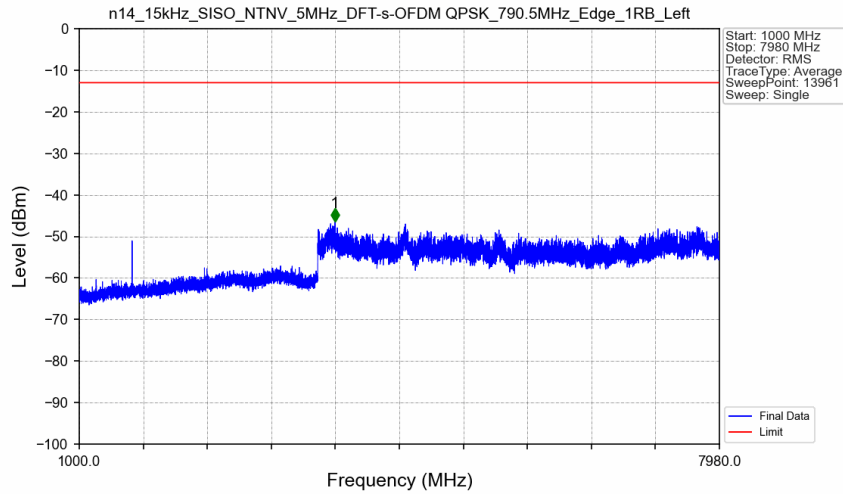
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
764	769	0.1	CHP	1	764.583	-73.50	-13	Pass
769	775	0.00625	CHP	2	771.791	-84.31	-35	Pass
775	787.9	0.1	CHP	3	787.848	-22.42	-13	Pass
787.9	788	0.03	CHP	4	787.999	-18.70	-13	Pass
788	795.5	0.03	CHP	/	/	/	/	/

n14_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_QPSK_790.5MHz_Edge_1RB_Left_Ant0



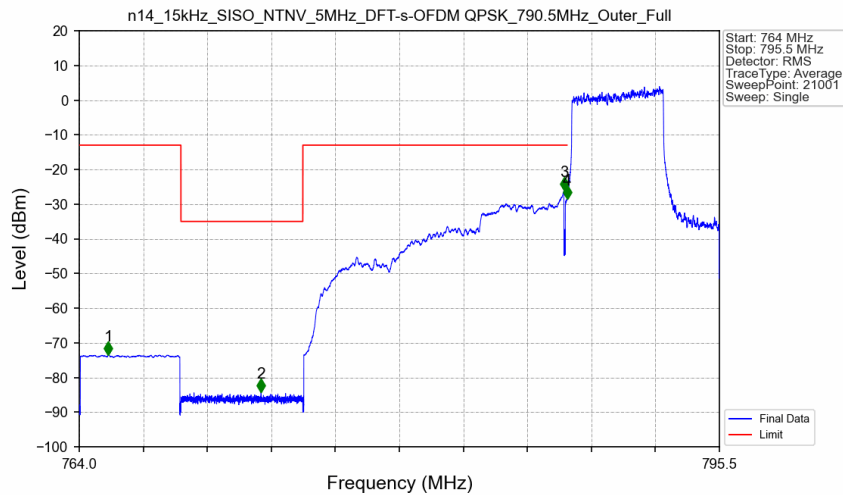
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	769	0.1	/	1	762.100	-53.93	-13	Pass
769	775	0.1	/	2	774.850	-70.45	-35	Pass
775	787.9	0.1	/	3	782.600	-49.90	-13	Pass
787.9	803	0.1	/	/	/	/	/	/
803	805	0.1	/	4	803.050	-71.79	-35	Pass
805	1000	0.1	/	5	827.300	-68.90	-13	Pass

n14_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_QPSK_790.5MHz_Edge_1RB_Left_Ant0



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	7980	1	/	1	3789.000	-46.39	-13	Pass

n14_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_QPSK_790.5MHz_Outer_Full_Ant0



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
764	769	0.1	CHP	1	765.431	-73.47	-13	Pass
769	775	0.00625	CHP	2	772.944	-84.15	-35	Pass
775	787.9	0.1	CHP	3	787.848	-26.08	-13	Pass
787.9	788	0.03	CHP	4	787.999	-28.55	-13	Pass
788	795.5	0.03	CHP	/	/	/	/	/