

Appendix-B NR Band n13

Effective (Isotropic) Radiated Power Output Data for SA

Test Result

Band	SCS	BW	Modulation	CH	RB Config	Power (dBm)	ERP (dBm)	Limit (dBm)	Verdict
N13	15	5	DFT-PI2BPSK	L	Outer_Full	24.04	23.72	34.77	PASS
N13	15	5	DFT-PI2BPSK	L	Inner_Full	24.52	24.2	34.77	PASS
N13	15	5	DFT-PI2BPSK	L	Inner_1RB_Left	24.56	24.24	34.77	PASS
N13	15	5	DFT-PI2BPSK	L	Inner_1RB_Right	24.52	24.2	34.77	PASS
N13	15	5	DFT-QPSK	L	Outer_Full	23.60	23.28	34.77	PASS
N13	15	5	DFT-QPSK	L	Inner_Full	24.54	24.22	34.77	PASS
N13	15	5	DFT-QPSK	L	Inner_1RB_Left	24.37	24.05	34.77	PASS
N13	15	5	DFT-QPSK	L	Inner_1RB_Right	24.49	24.17	34.77	PASS
N13	15	5	DFT-16QAM	L	Outer_Full	22.61	22.29	34.77	PASS
N13	15	5	DFT-16QAM	L	Inner_Full	23.61	23.29	34.77	PASS
N13	15	5	DFT-16QAM	L	Inner_1RB_Left	23.44	23.12	34.77	PASS
N13	15	5	DFT-16QAM	L	Inner_1RB_Right	23.53	23.21	34.77	PASS
N13	15	5	DFT-64QAM	L	Outer_Full	22.11	21.79	34.77	PASS
N13	15	5	DFT-64QAM	L	Inner_Full	22.21	21.89	34.77	PASS
N13	15	5	DFT-64QAM	L	Inner_1RB_Left	22.23	21.91	34.77	PASS
N13	15	5	DFT-64QAM	L	Inner_1RB_Right	22.15	21.83	34.77	PASS
N13	15	5	DFT-256QAM	L	Outer_Full	20.07	19.75	34.77	PASS
N13	15	5	DFT-256QAM	L	Inner_Full	20.12	19.8	34.77	PASS
N13	15	5	DFT-256QAM	L	Inner_1RB_Left	19.53	19.21	34.77	PASS
N13	15	5	DFT-256QAM	L	Inner_1RB_Right	19.52	19.2	34.77	PASS
N13	15	5	DFT-PI2BPSK	M	Outer_Full	23.98	23.66	34.77	PASS
N13	15	5	DFT-PI2BPSK	M	Inner_Full	24.62	24.3	34.77	PASS
N13	15	5	DFT-PI2BPSK	M	Inner_1RB_Left	24.53	24.21	34.77	PASS
N13	15	5	DFT-PI2BPSK	M	Inner_1RB_Right	24.44	24.12	34.77	PASS
N13	15	5	DFT-QPSK	M	Outer_Full	23.56	23.24	34.77	PASS
N13	15	5	DFT-QPSK	M	Inner_Full	24.56	24.24	34.77	PASS
N13	15	5	DFT-QPSK	M	Inner_1RB_Left	24.45	24.13	34.77	PASS
N13	15	5	DFT-QPSK	M	Inner_1RB_Right	24.34	24.02	34.77	PASS
N13	15	5	DFT-16QAM	M	Outer_Full	22.55	22.23	34.77	PASS
N13	15	5	DFT-16QAM	M	Inner_Full	23.63	23.31	34.77	PASS
N13	15	5	DFT-16QAM	M	Inner_1RB_Left	23.48	23.16	34.77	PASS
N13	15	5	DFT-16QAM	M	Inner_1RB_Right	23.37	23.05	34.77	PASS
N13	15	5	DFT-64QAM	M	Outer_Full	22.09	21.77	34.77	PASS
N13	15	5	DFT-64QAM	M	Inner_Full	22.18	21.86	34.77	PASS
N13	15	5	DFT-64QAM	M	Inner_1RB_Left	22.23	21.91	34.77	PASS
N13	15	5	DFT-64QAM	M	Inner_1RB_Right	22.14	21.82	34.77	PASS

N13	15	5	DFT-256QAM	M	Outer_Full	19.98	19.66	34.77	PASS
N13	15	5	DFT-256QAM	M	Inner_Full	20.09	19.77	34.77	PASS
N13	15	5	DFT-256QAM	M	Inner_1RB_Left	19.56	19.24	34.77	PASS
N13	15	5	DFT-256QAM	M	Inner_1RB_Right	19.41	19.09	34.77	PASS
N13	15	5	DFT-PI2BPSK	H	Outer_Full	23.97	23.65	34.77	PASS
N13	15	5	DFT-PI2BPSK	H	Inner_Full	24.54	24.22	34.77	PASS
N13	15	5	DFT-PI2BPSK	H	Inner_1RB_Left	24.47	24.15	34.77	PASS
N13	15	5	DFT-PI2BPSK	H	Inner_1RB_Right	24.44	24.12	34.77	PASS
N13	15	5	DFT-QPSK	H	Outer_Full	23.47	23.15	34.77	PASS
N13	15	5	DFT-QPSK	H	Inner_Full	24.51	24.19	34.77	PASS
N13	15	5	DFT-QPSK	H	Inner_1RB_Left	24.41	24.09	34.77	PASS
N13	15	5	DFT-QPSK	H	Inner_1RB_Right	24.34	24.02	34.77	PASS
N13	15	5	DFT-16QAM	H	Outer_Full	22.49	22.17	34.77	PASS
N13	15	5	DFT-16QAM	H	Inner_Full	23.57	23.25	34.77	PASS
N13	15	5	DFT-16QAM	H	Inner_1RB_Left	23.42	23.1	34.77	PASS
N13	15	5	DFT-16QAM	H	Inner_1RB_Right	23.30	22.98	34.77	PASS
N13	15	5	DFT-64QAM	H	Outer_Full	21.96	21.64	34.77	PASS
N13	15	5	DFT-64QAM	H	Inner_Full	22.10	21.78	34.77	PASS
N13	15	5	DFT-64QAM	H	Inner_1RB_Left	22.17	21.85	34.77	PASS
N13	15	5	DFT-64QAM	H	Inner_1RB_Right	22.11	21.79	34.77	PASS
N13	15	5	DFT-256QAM	H	Outer_Full	19.89	19.57	34.77	PASS
N13	15	5	DFT-256QAM	H	Inner_Full	19.99	19.67	34.77	PASS
N13	15	5	DFT-256QAM	H	Inner_1RB_Left	19.48	19.16	34.77	PASS
N13	15	5	DFT-256QAM	H	Inner_1RB_Right	19.36	19.04	34.77	PASS
N13	15	10	DFT-PI2BPSK	M	Outer_Full	24.03	23.71	34.77	PASS
N13	15	10	DFT-PI2BPSK	M	Inner_Full	24.58	24.26	34.77	PASS
N13	15	10	DFT-PI2BPSK	M	Inner_1RB_Left	24.80	24.48	34.77	PASS
N13	15	10	DFT-PI2BPSK	M	Inner_1RB_Right	24.59	24.27	34.77	PASS
N13	15	10	DFT-QPSK	M	Outer_Full	23.57	23.25	34.77	PASS
N13	15	10	DFT-QPSK	M	Inner_Full	24.67	24.35	34.77	PASS
N13	15	10	DFT-QPSK	M	Inner_1RB_Left	24.59	24.27	34.77	PASS
N13	15	10	DFT-QPSK	M	Inner_1RB_Right	24.39	24.07	34.77	PASS
N13	15	10	DFT-16QAM	M	Outer_Full	22.55	22.23	34.77	PASS
N13	15	10	DFT-16QAM	M	Inner_Full	23.69	23.37	34.77	PASS
N13	15	10	DFT-16QAM	M	Inner_1RB_Left	23.47	23.15	34.77	PASS
N13	15	10	DFT-16QAM	M	Inner_1RB_Right	23.39	23.07	34.77	PASS
N13	15	10	DFT-64QAM	M	Outer_Full	22.14	21.82	34.77	PASS
N13	15	10	DFT-64QAM	M	Inner_Full	22.11	21.79	34.77	PASS
N13	15	10	DFT-64QAM	M	Inner_1RB_Left	22.30	21.98	34.77	PASS
N13	15	10	DFT-64QAM	M	Inner_1RB_Right	22.26	21.94	34.77	PASS
N13	15	10	DFT-256QAM	M	Outer_Full	20.04	19.72	34.77	PASS
N13	15	10	DFT-256QAM	M	Inner_Full	20.01	19.69	34.77	PASS
N13	15	10	DFT-256QAM	M	Inner_1RB_Left	19.60	19.28	34.77	PASS
N13	15	10	DFT-256QAM	M	Inner_1RB_Right	19.49	19.17	34.77	PASS

Peak-to-Average Ratio for SA**Peak-to-Average Ratio(CCDF)****Test Result**

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Limit	Verdict
N13	15	10	DFT-256QAM	M	Outer_Full	6.66	≤13	PASS
N13	15	10	CP-256QAM	M	Outer_Full	8.58	≤13	PASS

Test Graphs



NTNV_N13_PC3_15_10_M_TID5_#1

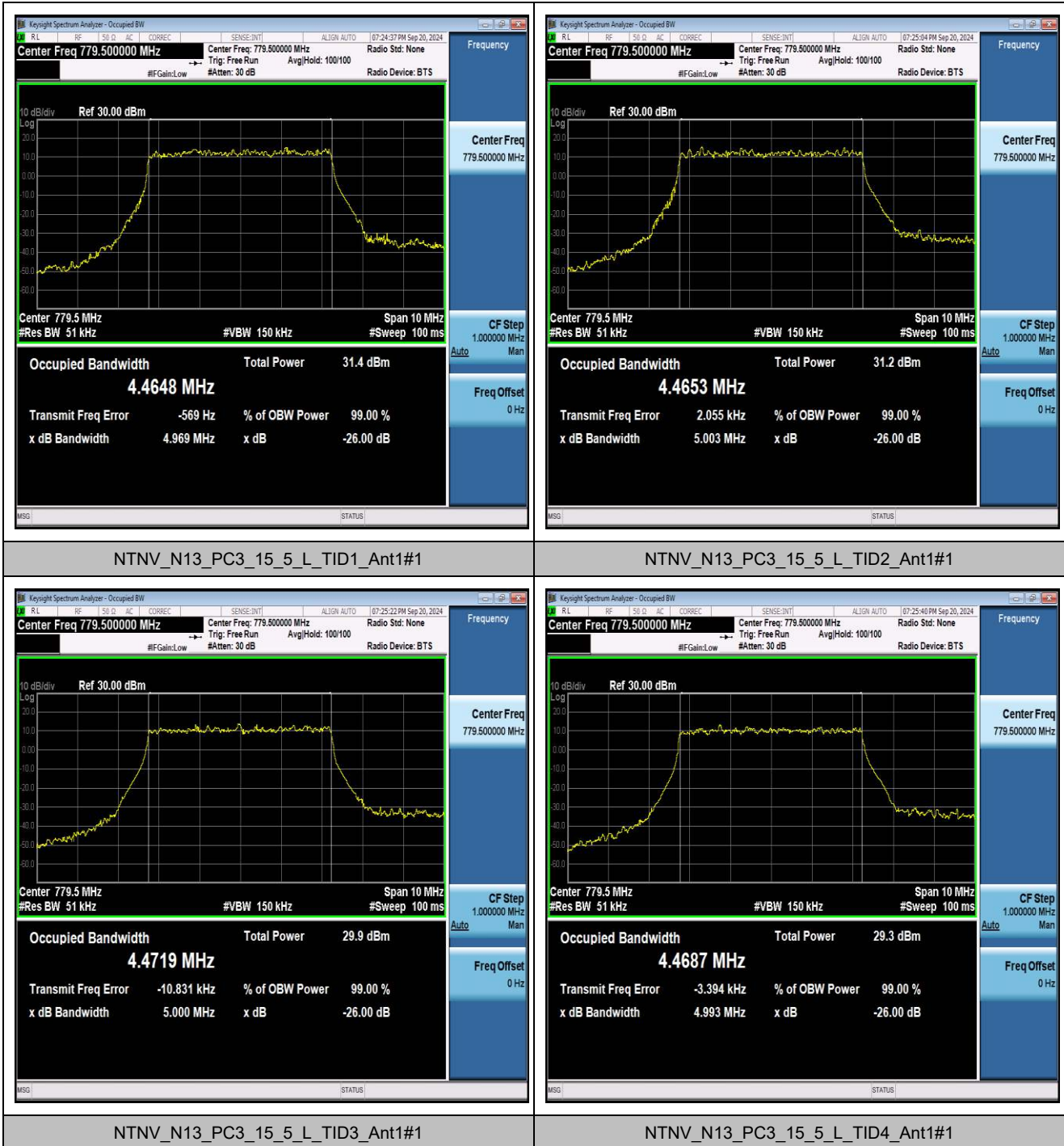
NTNV_N13_PC3_15_10_M_TID9_#1

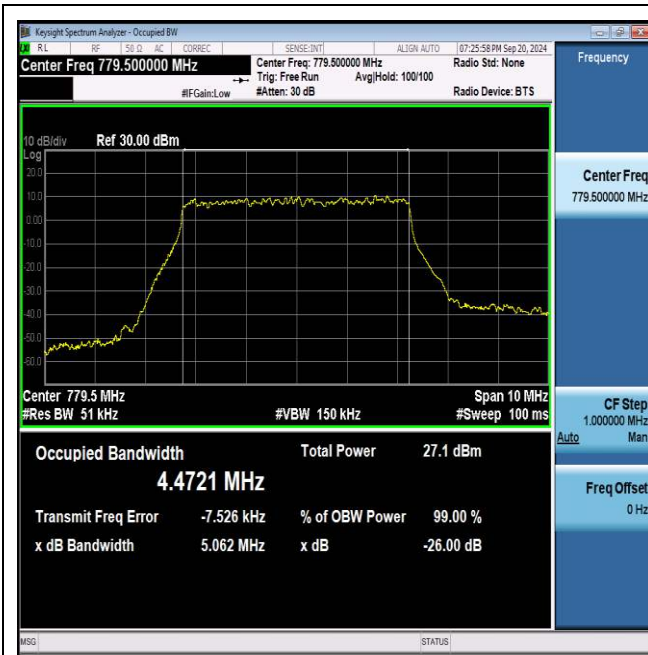
26dB Bandwidth and Occupied Bandwidth for SA

Test Result

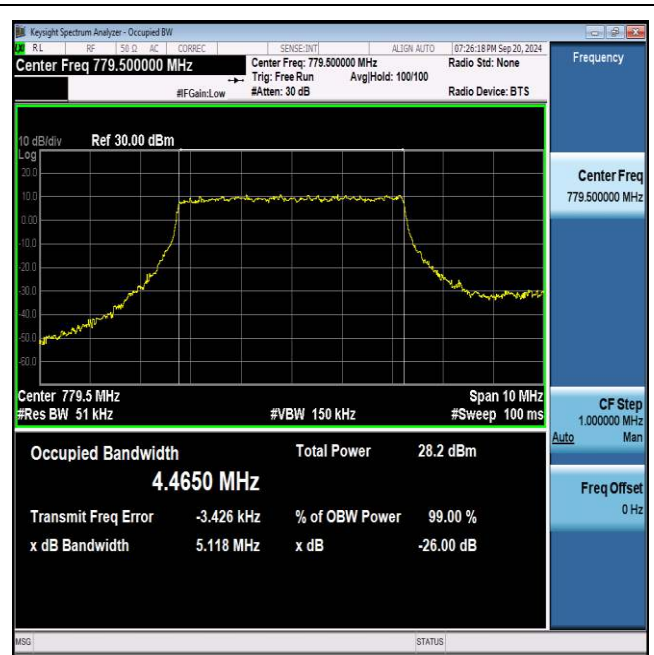
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (99%)	Result (26dB)	Verdict
N13	15	5	DFT-PI2BPSK	L	Outer_Full	4.4648	4.969	PASS
N13	15	5	DFT-QPSK	L	Outer_Full	4.4653	5.003	PASS
N13	15	5	DFT-16QAM	L	Outer_Full	4.4719	5.000	PASS
N13	15	5	DFT-64QAM	L	Outer_Full	4.4687	4.993	PASS
N13	15	5	DFT-256QAM	L	Outer_Full	4.4721	5.062	PASS
N13	15	5	CP-QPSK	L	Outer_Full	4.4650	5.118	PASS
N13	15	5	CP-16QAM	L	Outer_Full	4.5081	5.198	PASS
N13	15	5	CP-64QAM	L	Outer_Full	4.4788	5.122	PASS
N13	15	5	CP-256QAM	L	Outer_Full	4.4772	5.174	PASS
N13	15	5	DFT-PI2BPSK	M	Outer_Full	4.4700	5.002	PASS
N13	15	5	DFT-QPSK	M	Outer_Full	4.4718	4.970	PASS
N13	15	5	DFT-16QAM	M	Outer_Full	4.4825	5.074	PASS
N13	15	5	DFT-64QAM	M	Outer_Full	4.4764	5.000	PASS
N13	15	5	DFT-256QAM	M	Outer_Full	4.4876	5.000	PASS
N13	15	5	CP-QPSK	M	Outer_Full	4.5038	5.200	PASS
N13	15	5	CP-16QAM	M	Outer_Full	4.4910	5.154	PASS
N13	15	5	CP-64QAM	M	Outer_Full	4.4982	5.147	PASS
N13	15	5	CP-256QAM	M	Outer_Full	4.4836	5.160	PASS
N13	15	5	DFT-PI2BPSK	H	Outer_Full	4.4640	5.051	PASS
N13	15	5	DFT-QPSK	H	Outer_Full	4.4600	4.944	PASS
N13	15	5	DFT-16QAM	H	Outer_Full	4.4777	5.015	PASS
N13	15	5	DFT-64QAM	H	Outer_Full	4.4661	4.976	PASS
N13	15	5	DFT-256QAM	H	Outer_Full	4.4676	5.005	PASS
N13	15	5	CP-QPSK	H	Outer_Full	4.4637	5.067	PASS
N13	15	5	CP-16QAM	H	Outer_Full	4.4811	5.107	PASS
N13	15	5	CP-64QAM	H	Outer_Full	4.4750	5.050	PASS
N13	15	5	CP-256QAM	H	Outer_Full	4.4804	5.099	PASS
N13	15	10	DFT-PI2BPSK	M	Outer_Full	8.8948	9.607	PASS
N13	15	10	DFT-QPSK	M	Outer_Full	8.9051	9.554	PASS
N13	15	10	DFT-16QAM	M	Outer_Full	8.9486	9.644	PASS
N13	15	10	DFT-64QAM	M	Outer_Full	8.9457	9.541	PASS
N13	15	10	DFT-256QAM	M	Outer_Full	8.9127	9.511	PASS
N13	15	10	CP-QPSK	M	Outer_Full	9.2688	10.06	PASS
N13	15	10	CP-16QAM	M	Outer_Full	9.2630	10.03	PASS
N13	15	10	CP-64QAM	M	Outer_Full	9.2609	9.987	PASS
N13	15	10	CP-256QAM	M	Outer_Full	9.2829	10.01	PASS

Test Graphs

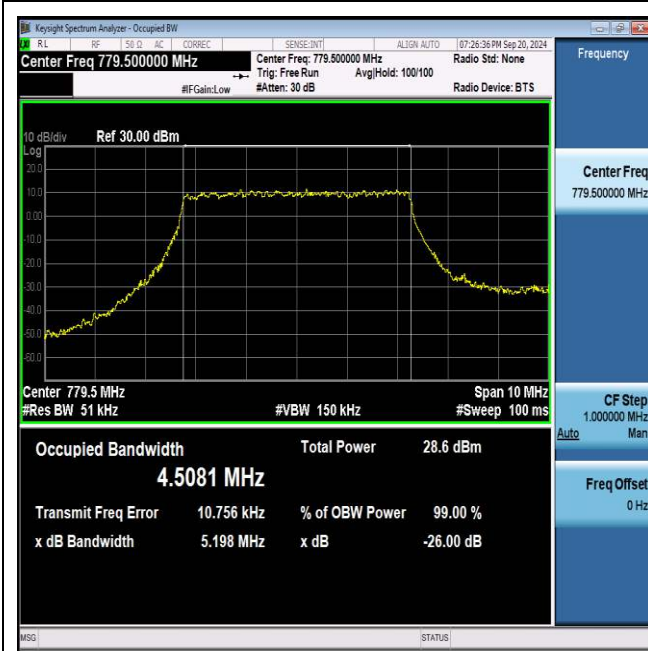




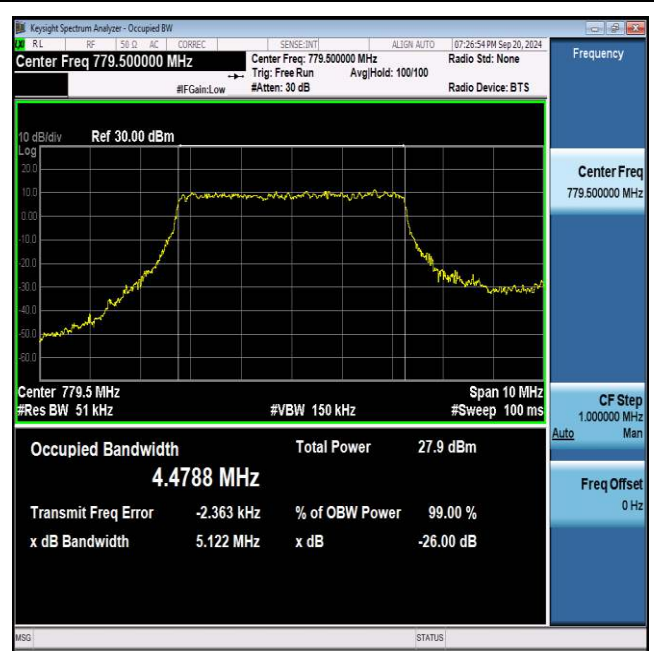
NTNV_N13_PC3_15_5_L_TID5_Ant1#1



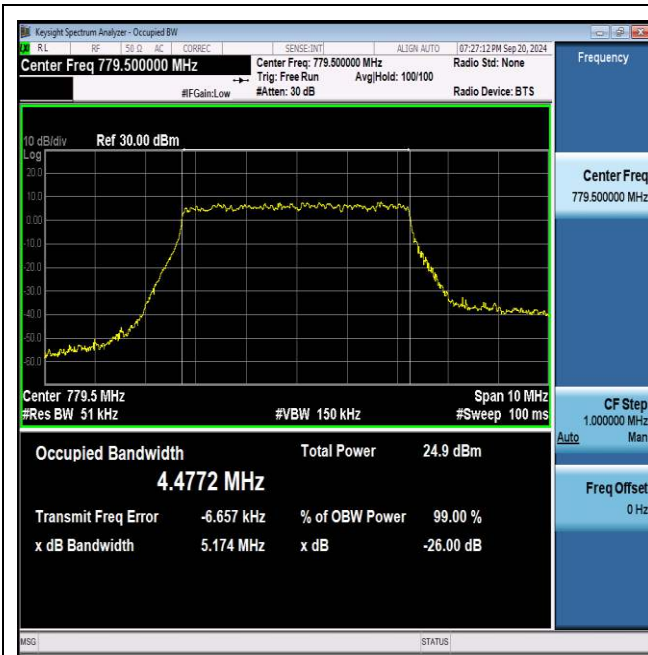
NTNV_N13_PC3_15_5_L_TID6_Ant1#1



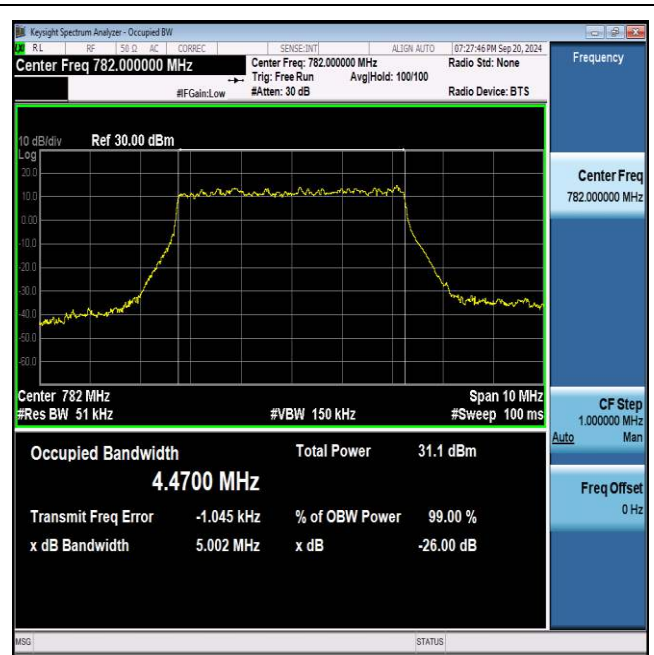
NTNV_N13_PC3_15_5_L_TID7_Ant1#1



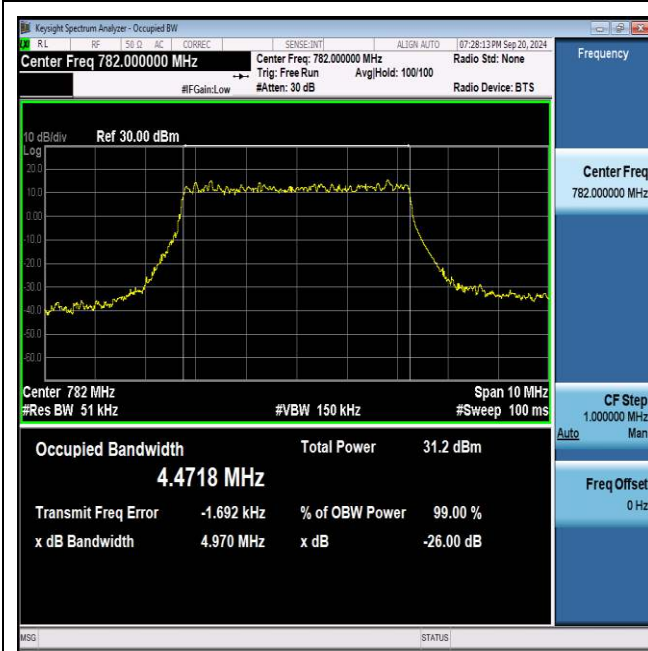
NTNV_N13_PC3_15_5_L_TID8_Ant1#1



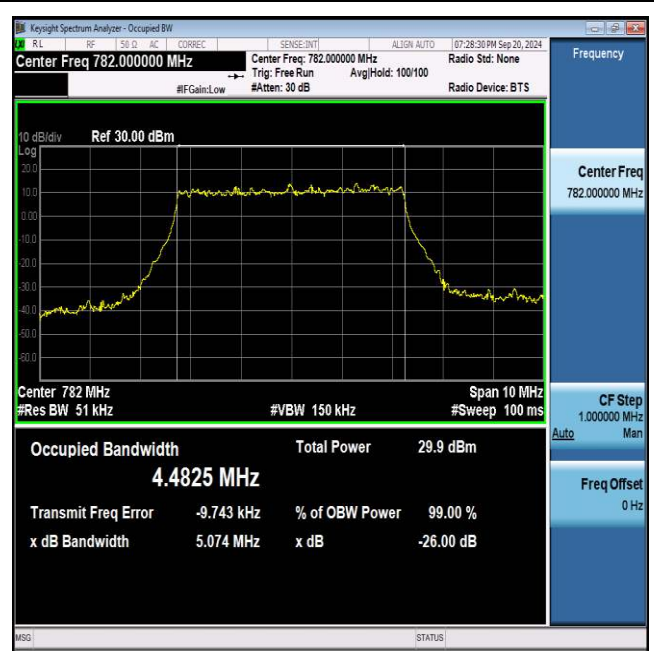
NTNV_N13_PC3_15_5_L_TID9_Ant1#1



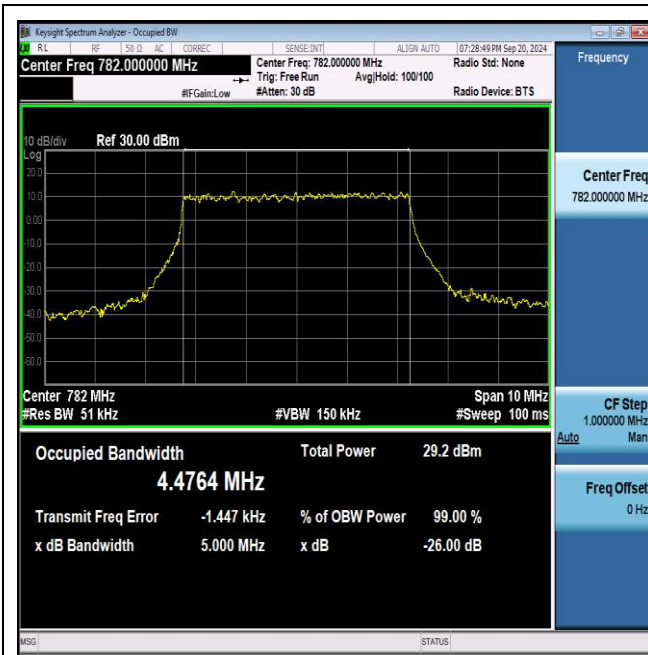
NTNV_N13_PC3_15_5_M_TID1_Ant1#1



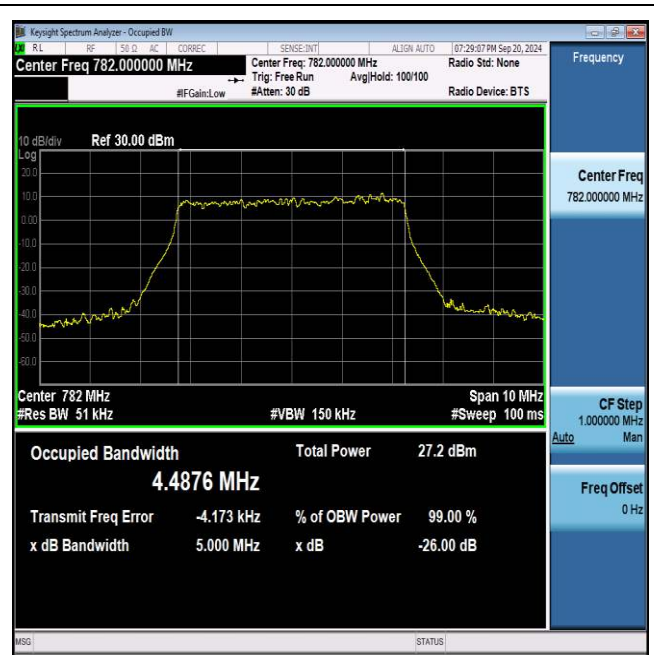
NTNV_N13_PC3_15_5_M_TID2_Ant1#1



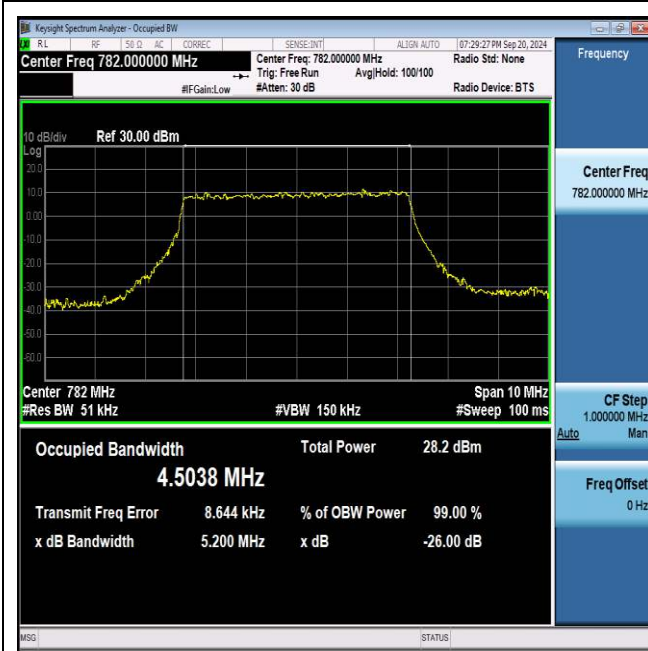
NTNV_N13_PC3_15_5_M_TID3_Ant1#1



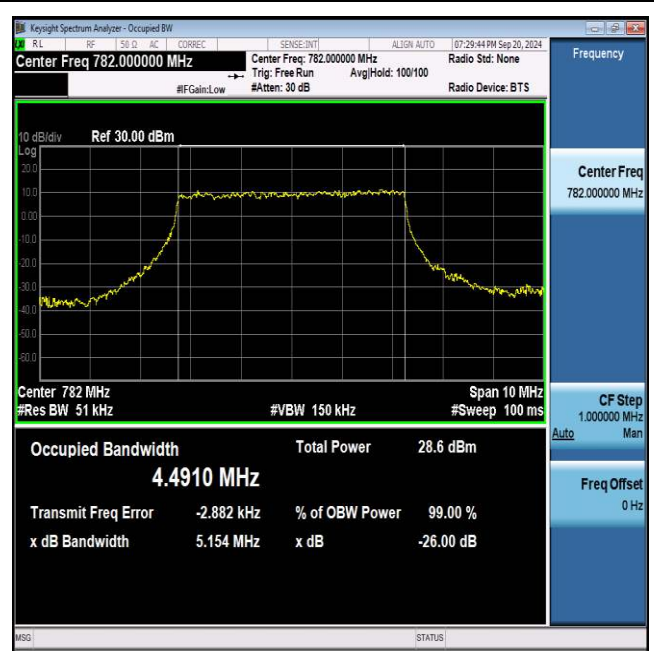
NTNV_N13_PC3_15_5_M_TID4_Ant1#1



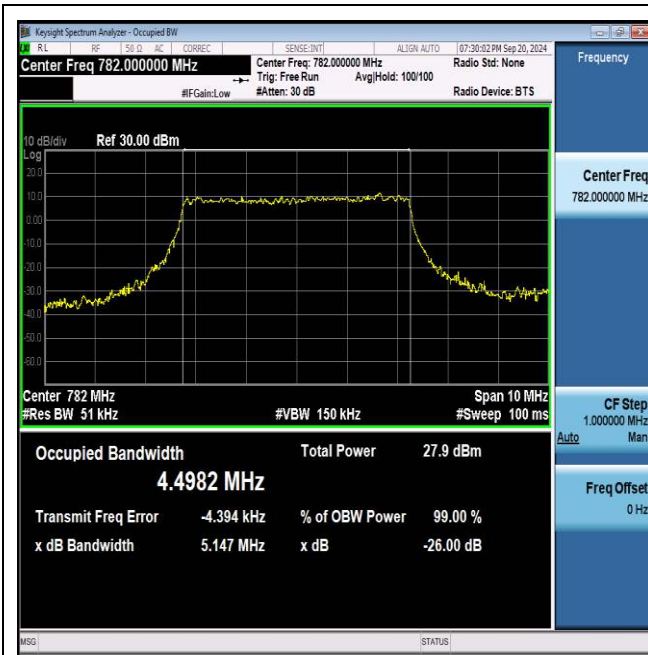
NTNV_N13_PC3_15_5_M_TID5_Ant1#1



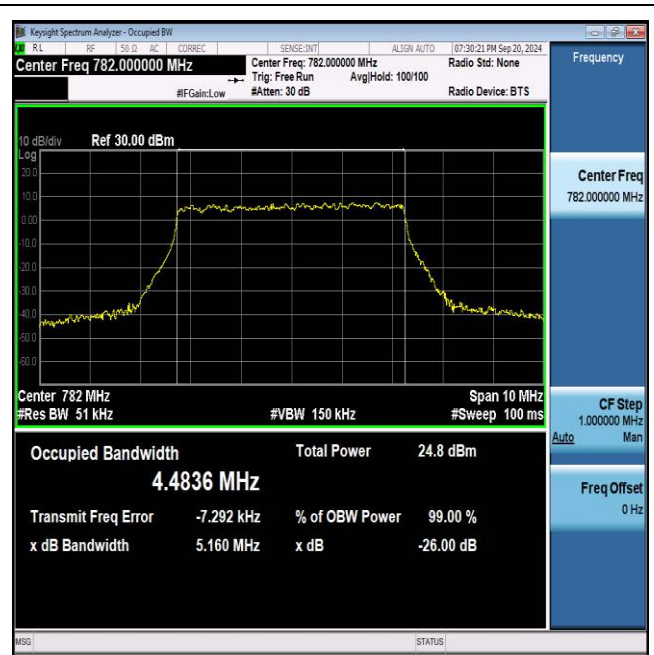
NTNV_N13_PC3_15_5_M_TID6_Ant1#1



NTNV_N13_PC3_15_5_M_TID7_Ant1#1



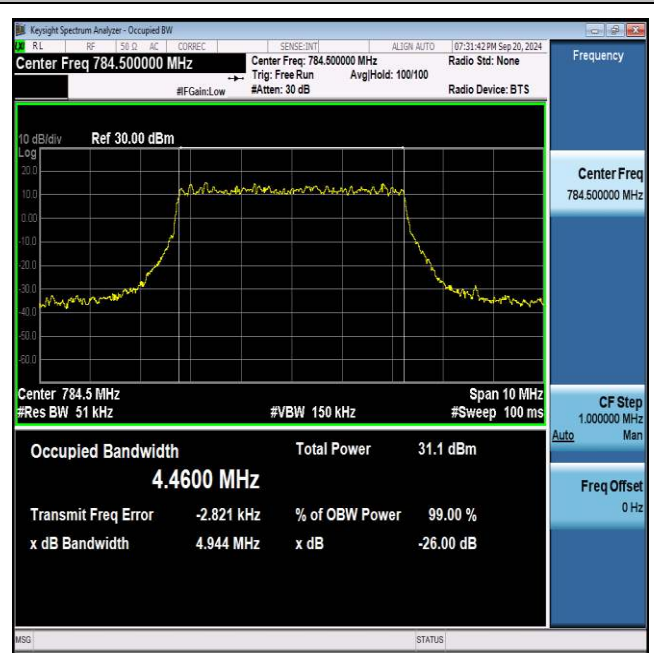
NTNV_N13_PC3_15_5_M_TID8_Ant1#1



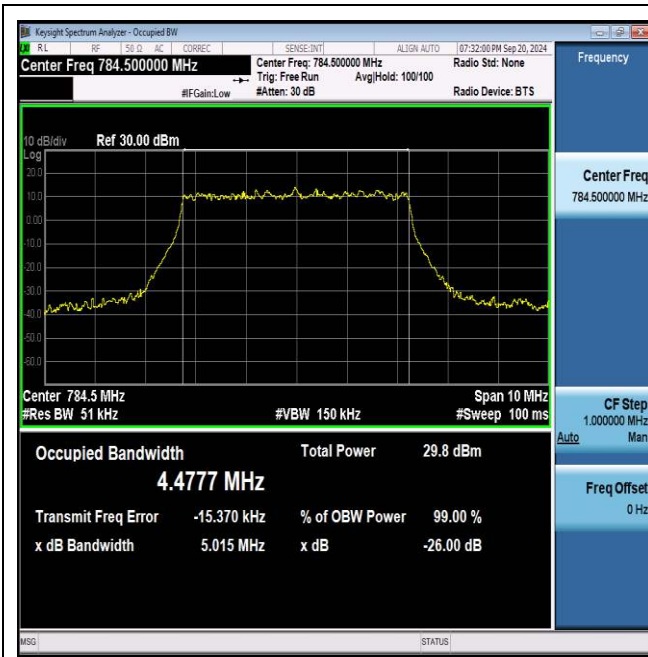
NTNV_N13_PC3_15_5_M_TID9_Ant1#1



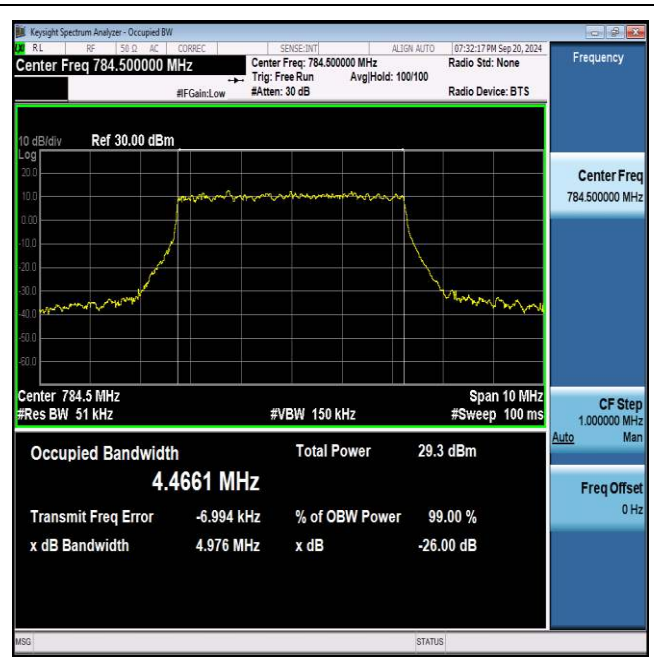
NTNV_N13_PC3_15_5_H_TID1_Ant1#1



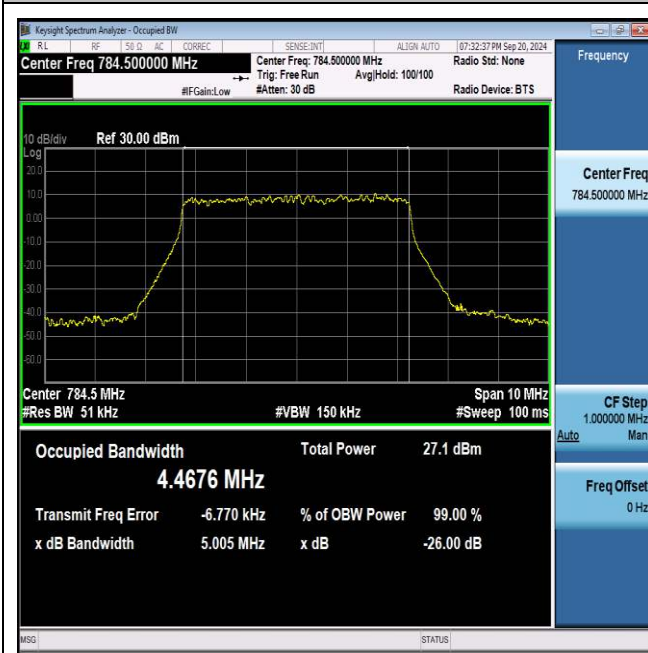
NTNV_N13_PC3_15_5_H_TID2_Ant1#1



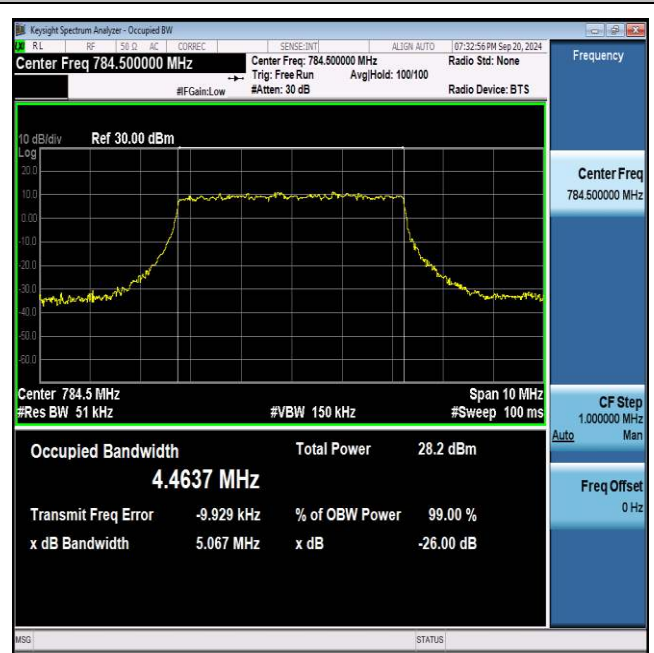
NTNV_N13_PC3_15_5_H_TID3_Ant1#1



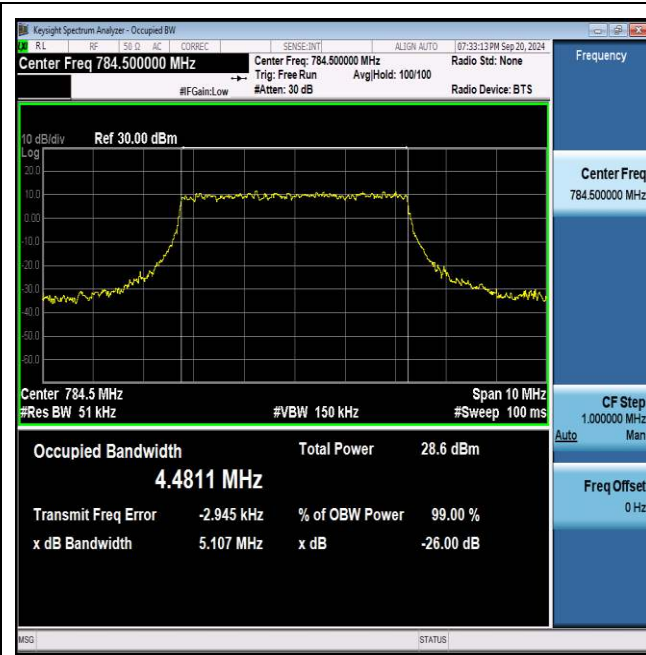
NTNV_N13_PC3_15_5_H_TID4_Ant1#1



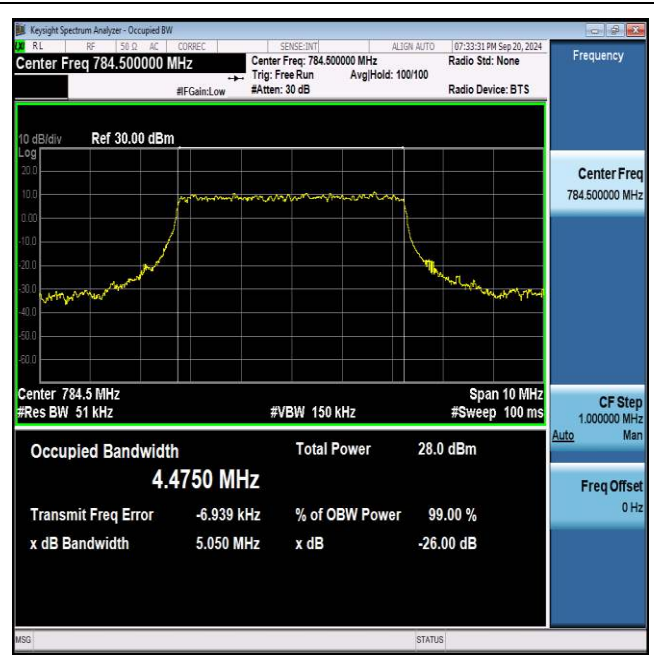
NTNV_N13_PC3_15_5_H_TID5_Ant1#1



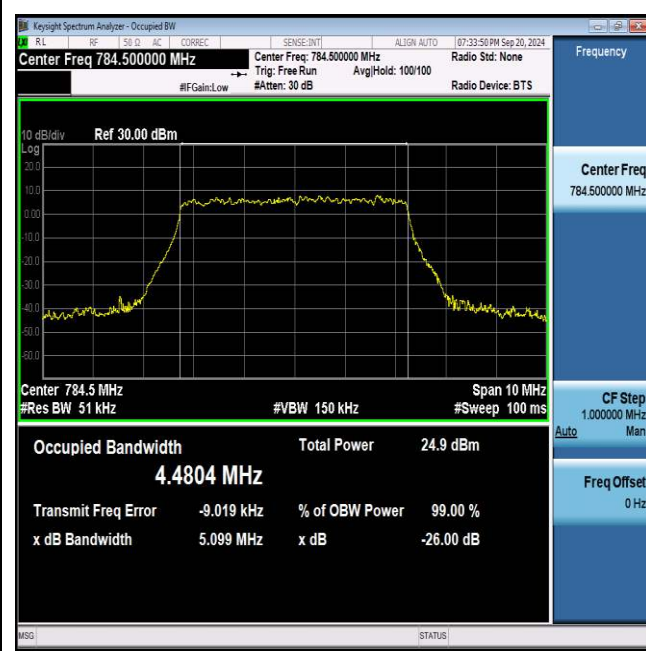
NTNV_N13_PC3_15_5_H_TID6_Ant1#1



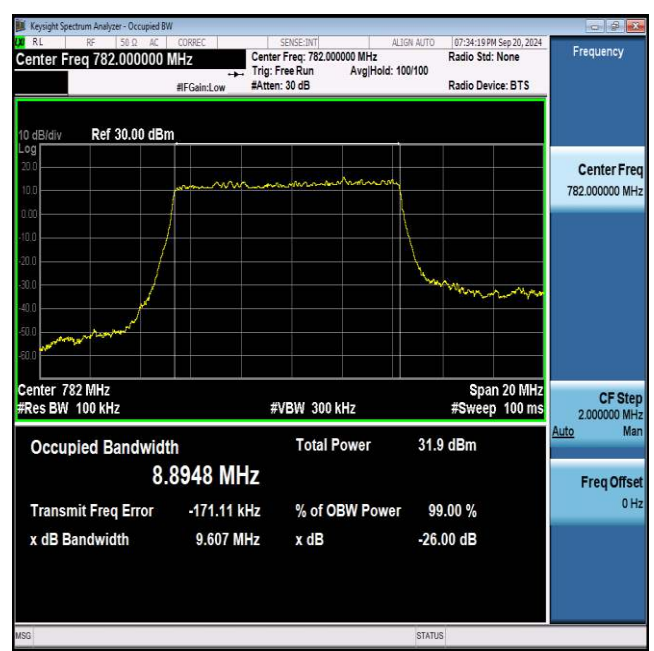
NTNV_N13_PC3_15_5_H_TID7_Ant1#1



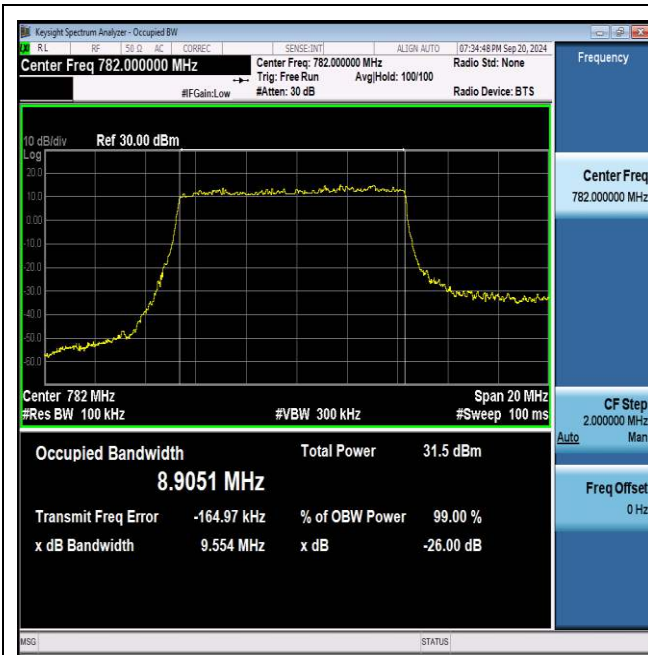
NTNV_N13_PC3_15_5_H_TID8_Ant1#1



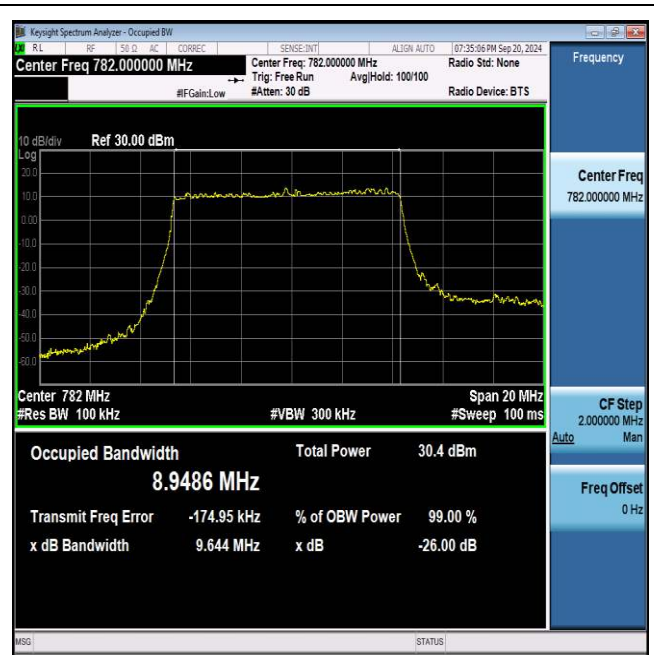
NTNV_N13_PC3_15_5_H_TID9_Ant1#1



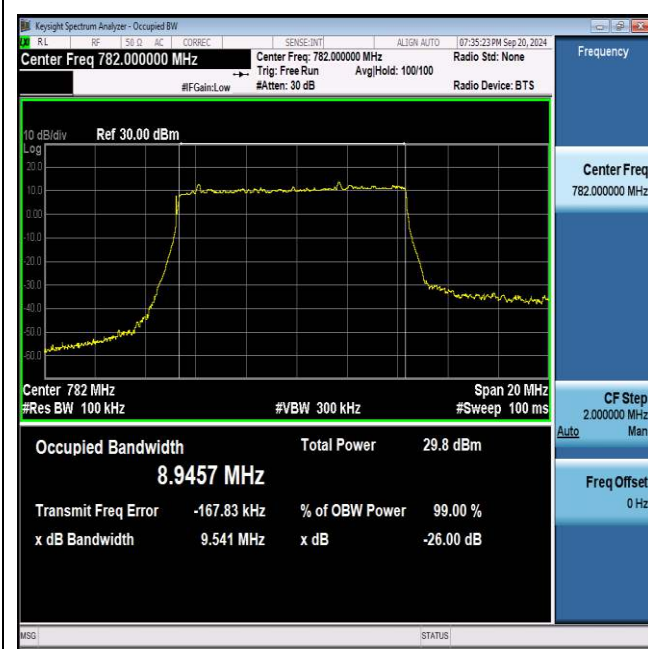
NTNV_N13_PC3_15_10_M_TID1_Ant1#1



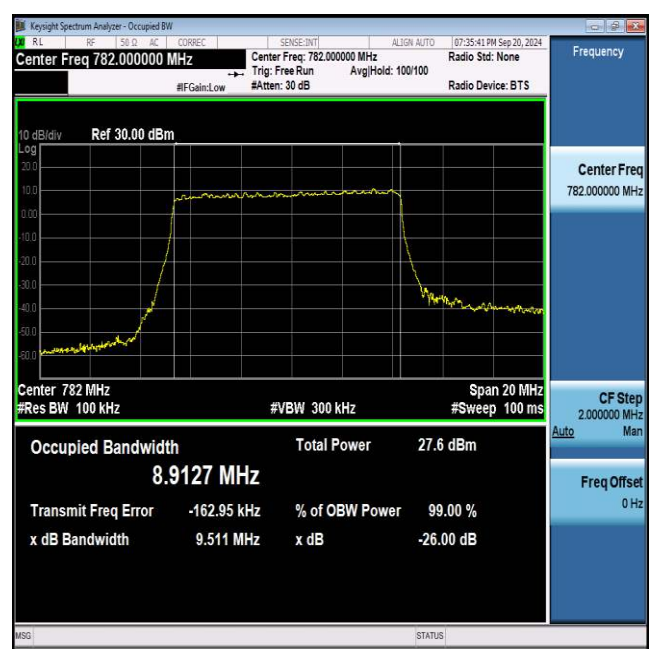
NTNV_N13_PC3_15_10_M_TID2_Ant1#1



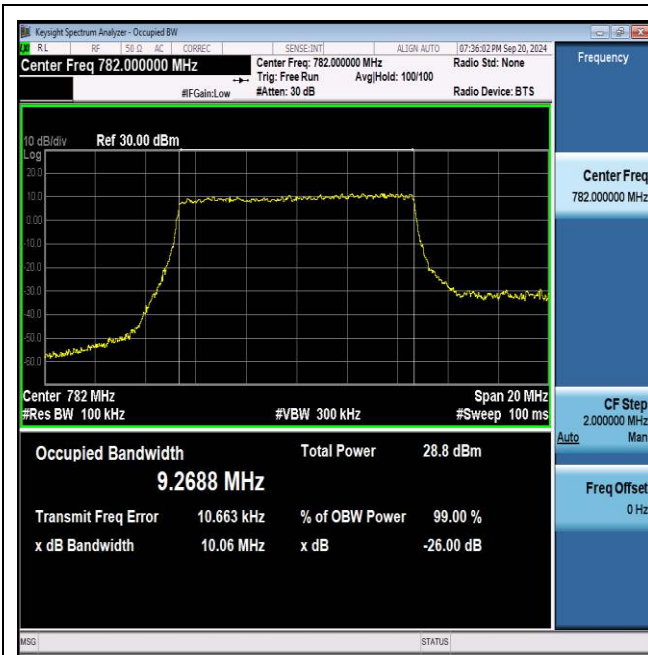
NTNV_N13_PC3_15_10_M_TID3_Ant1#1



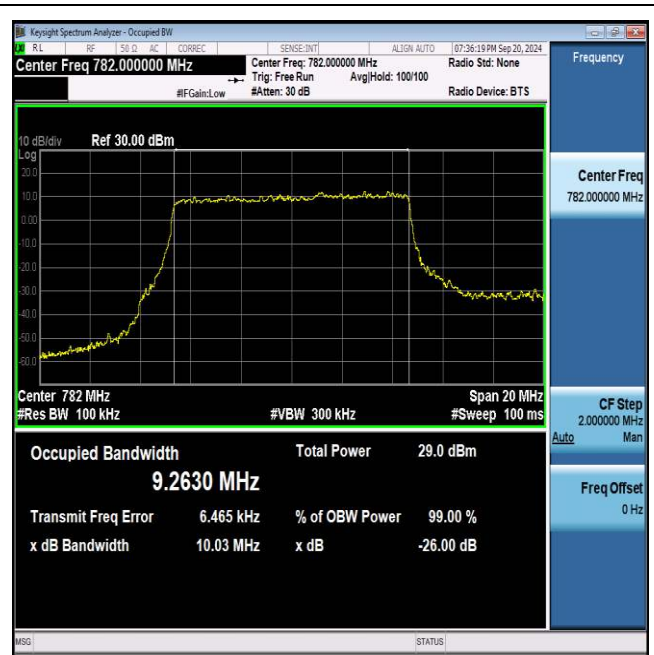
NTNV_N13_PC3_15_10_M_TID4_Ant1#1



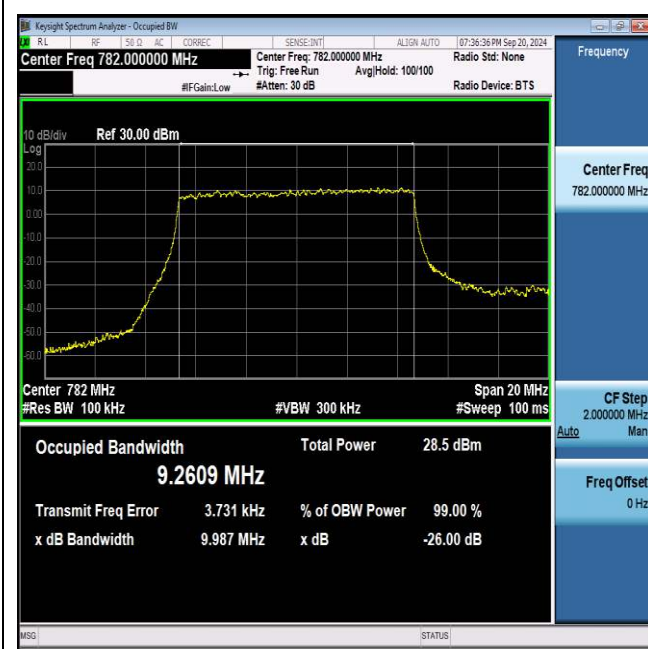
NTNV_N13_PC3_15_10_M_TID5_Ant1#1



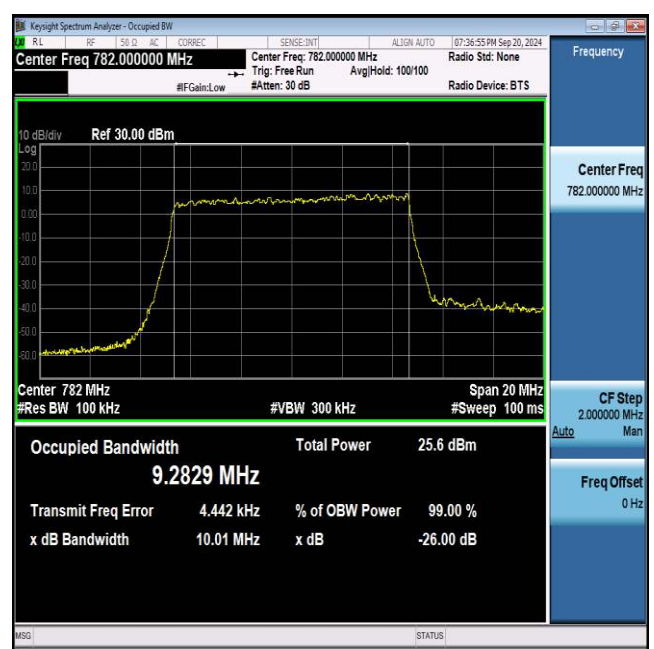
NTVN_N13_PC3_15_10_M_TID6_Ant1#1



NTVN_N13_PC3_15_10_M_TID7_Ant1#1



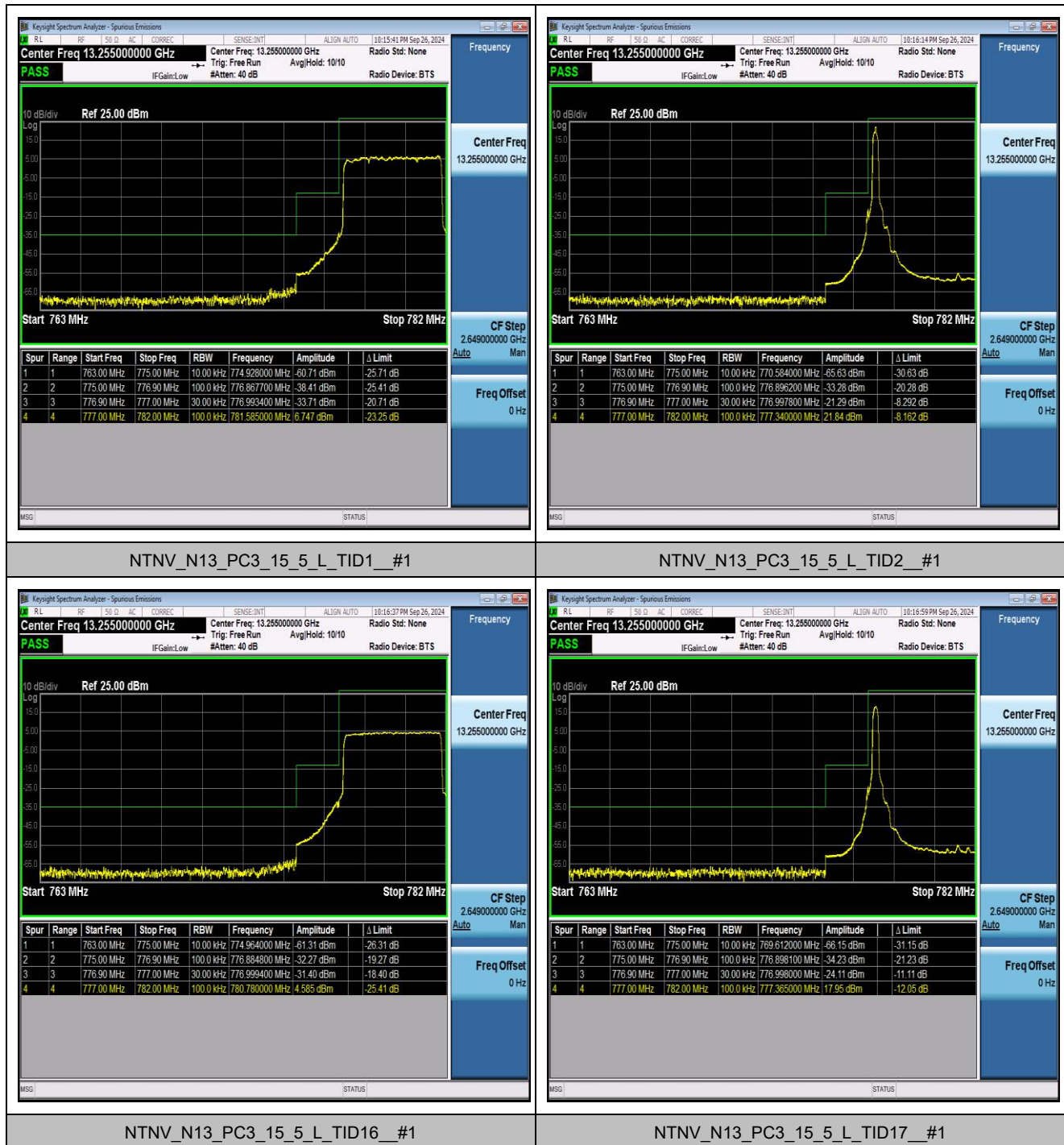
NTVN_N13_PC3_15_10_M_TID8_Ant1#1

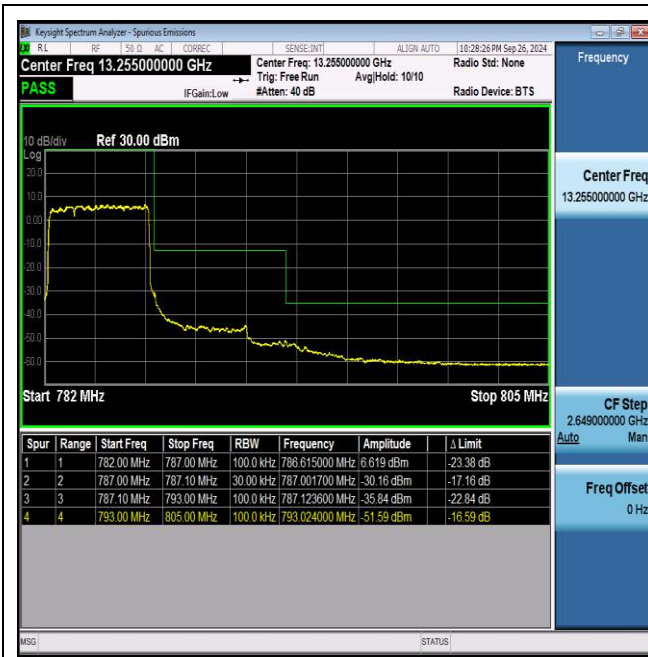


NTVN_N13_PC3_15_10_M_TID9_Ant1#1

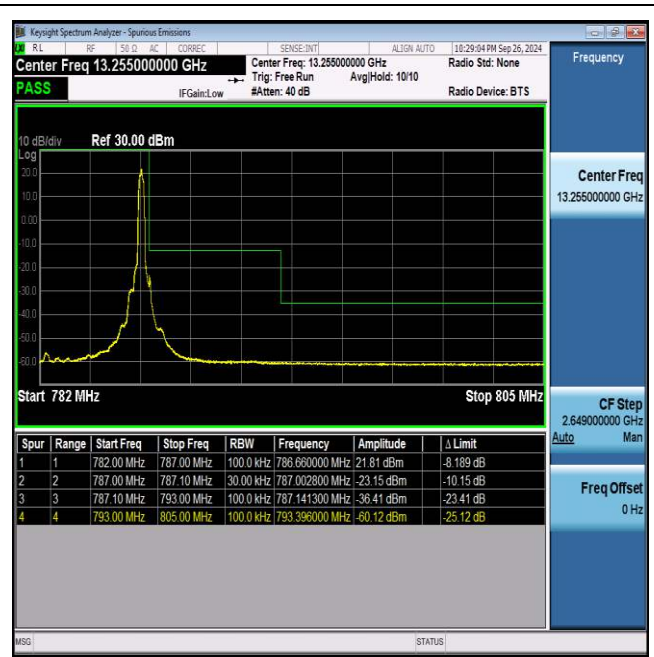
Band Edge for SA

Test Graphs

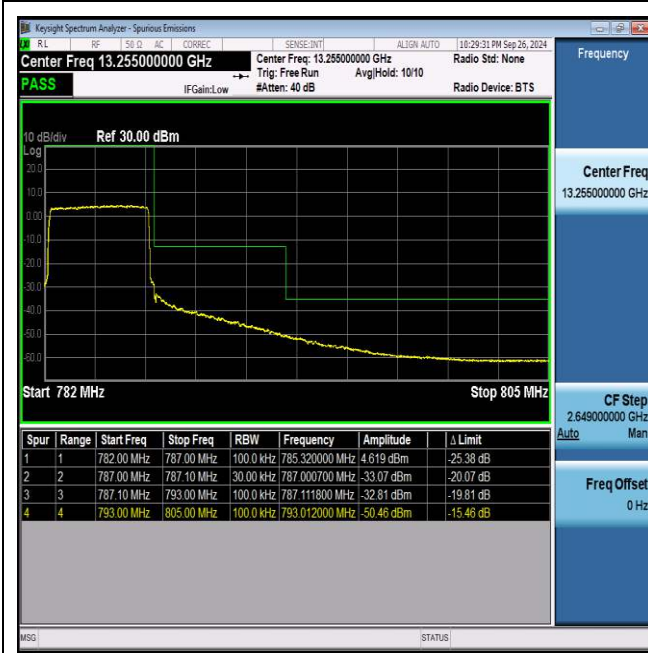




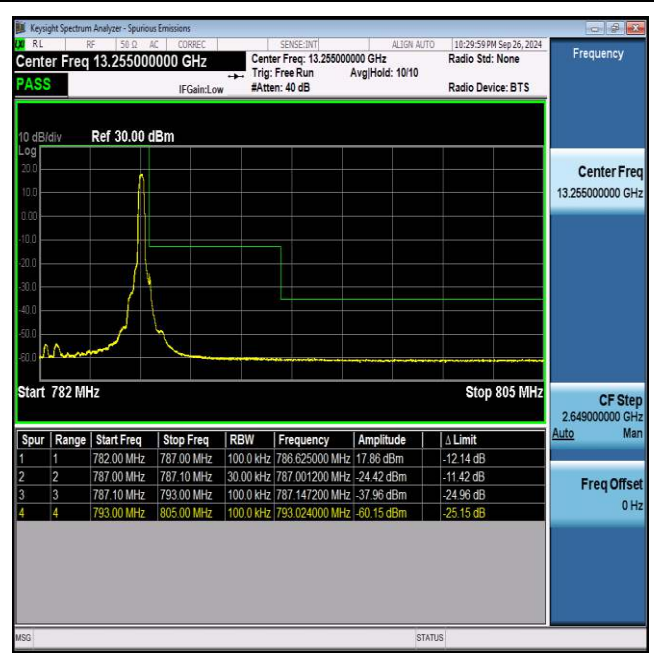
NTNV_N13_PC3_15_5_H_TID1_#1



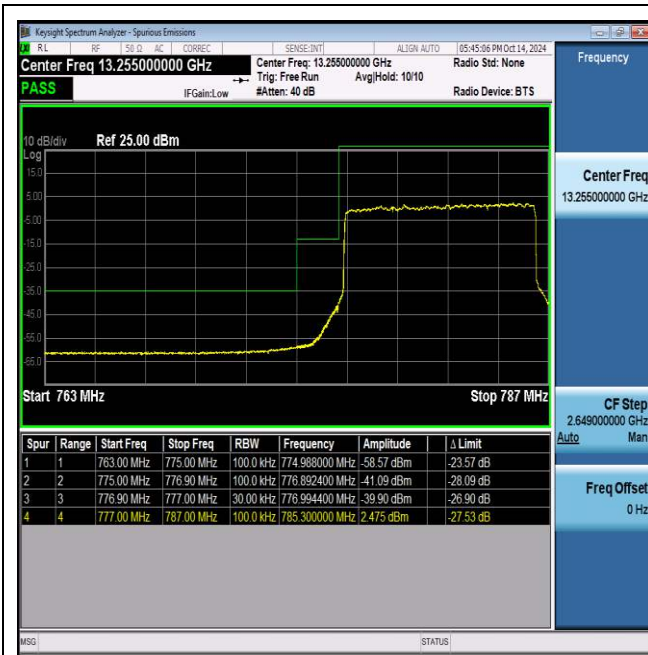
NTNV_N13_PC3_15_5_H_TID3_#1



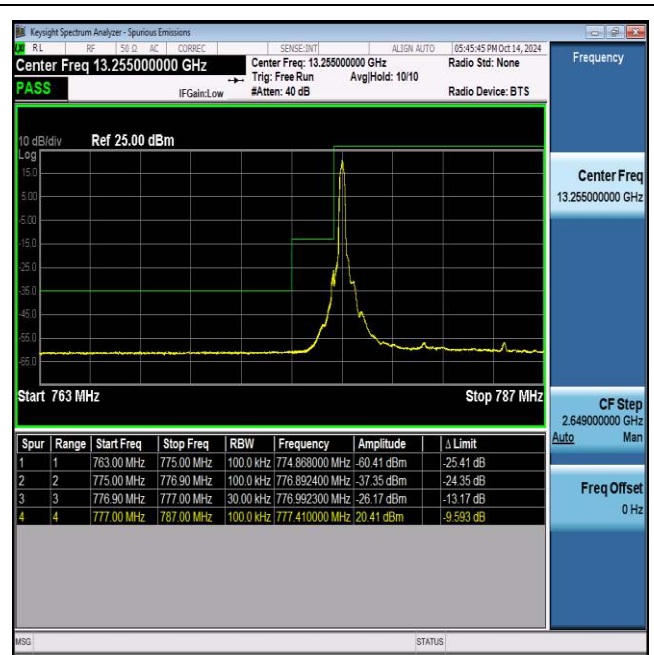
NTNV_N13_PC3_15_5_H_TID16_#1



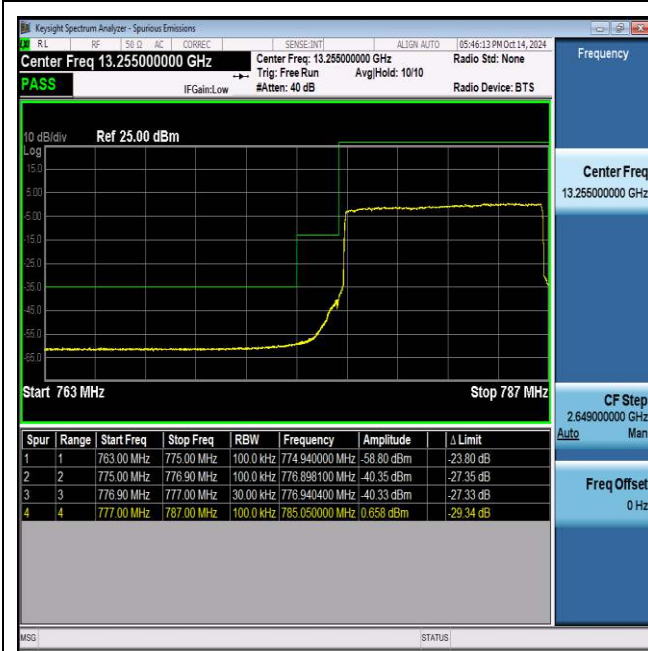
NTNV_N13_PC3_15_5_H_TID18_#1



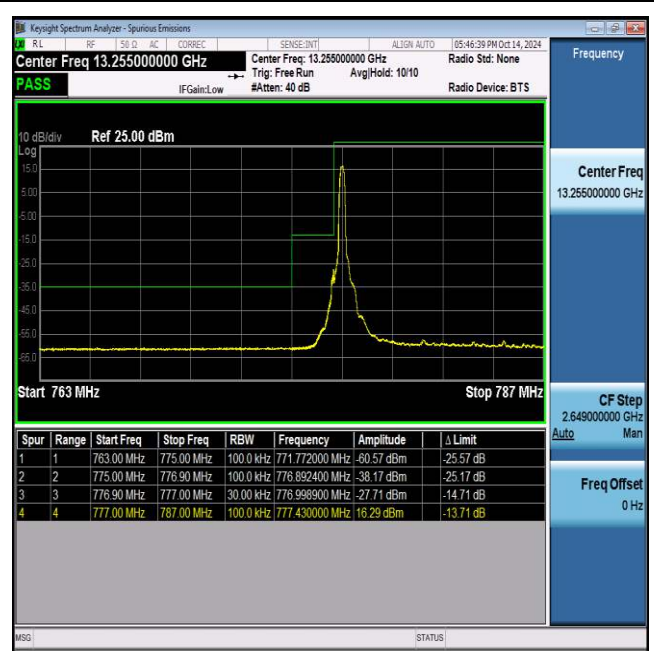
NTVN_N13_PC3_15_10_L_TID1_#1



NTVN_N13_PC3_15_10_L_TID2_#1



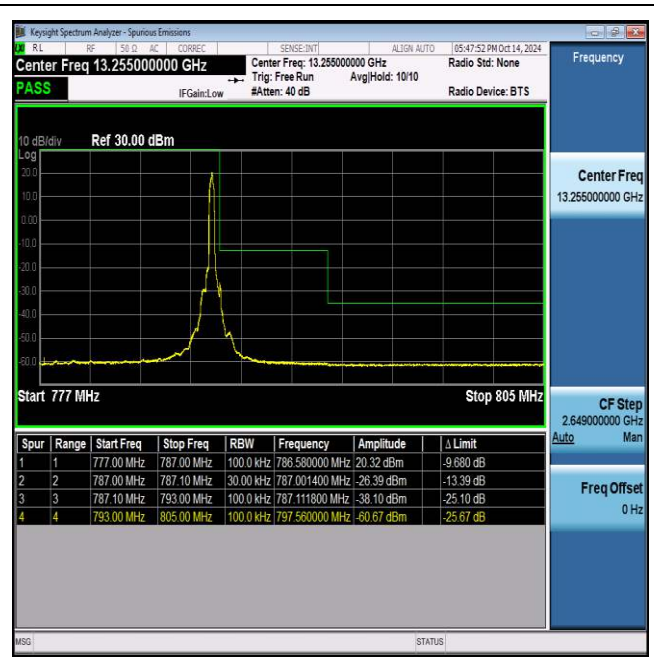
NTVN_N13_PC3_15_10_L_TID16_#1



NTVN_N13_PC3_15_10_L_TID17_#1



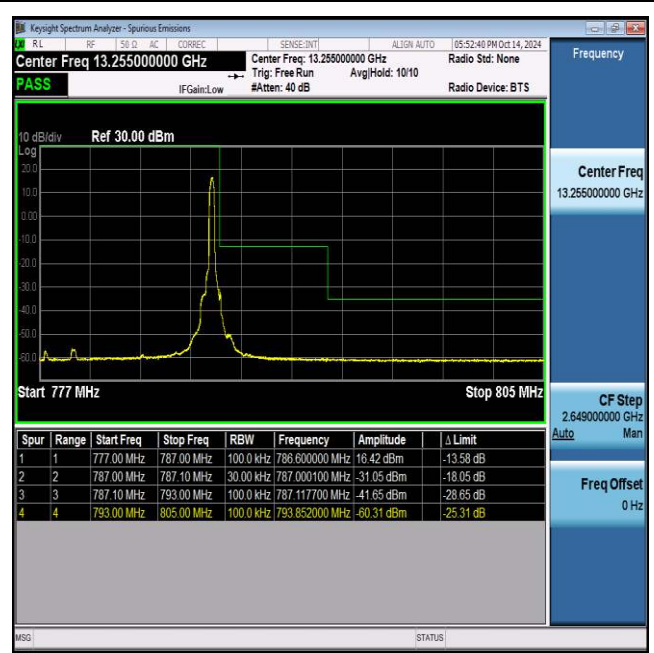
NTNV_N13_PC3_15_10_H_TID1_#1



NTNV_N13_PC3_15_10_H_TID3_#1



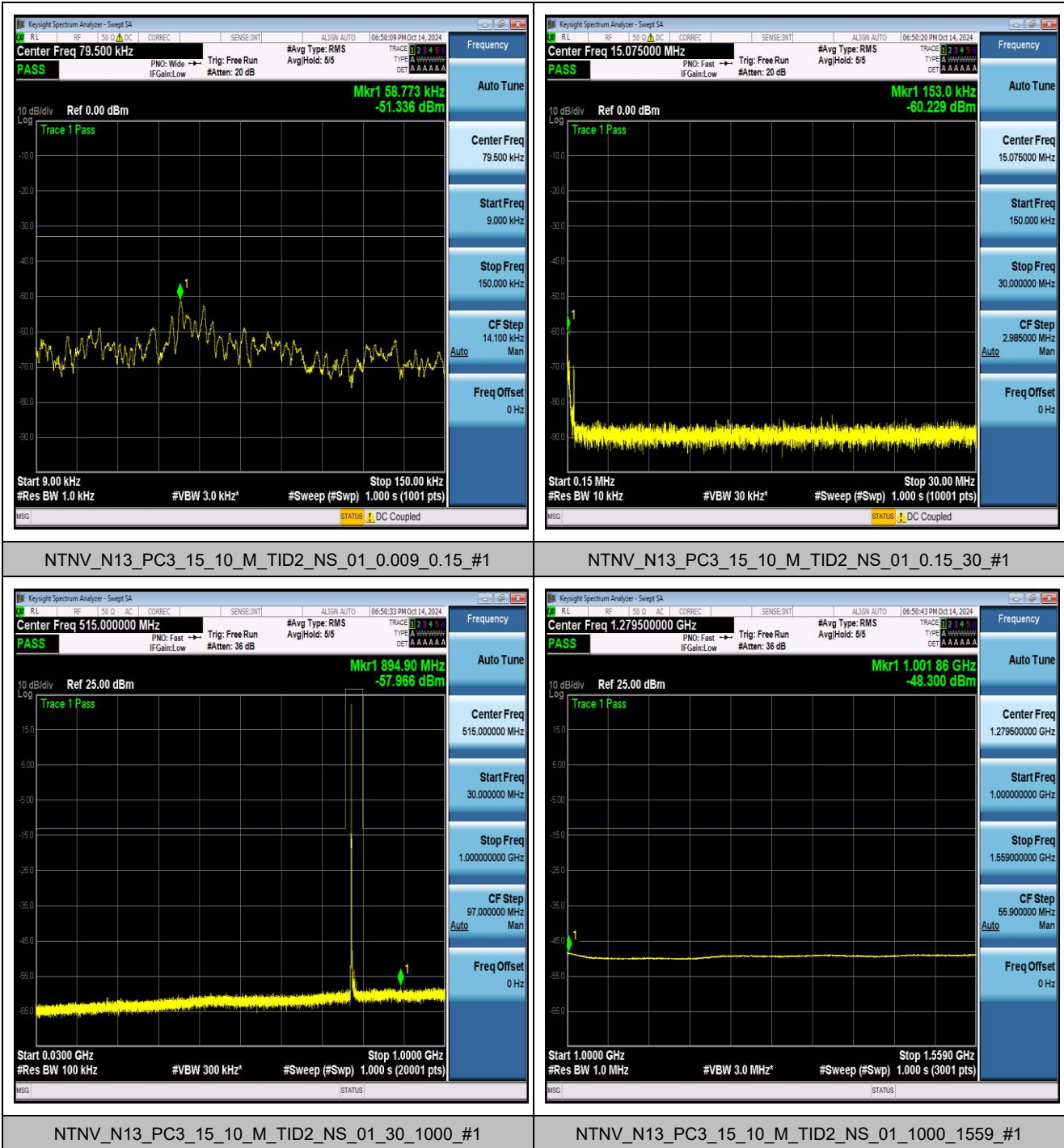
NTNV_N13_PC3_15_10_H_TID16_#1

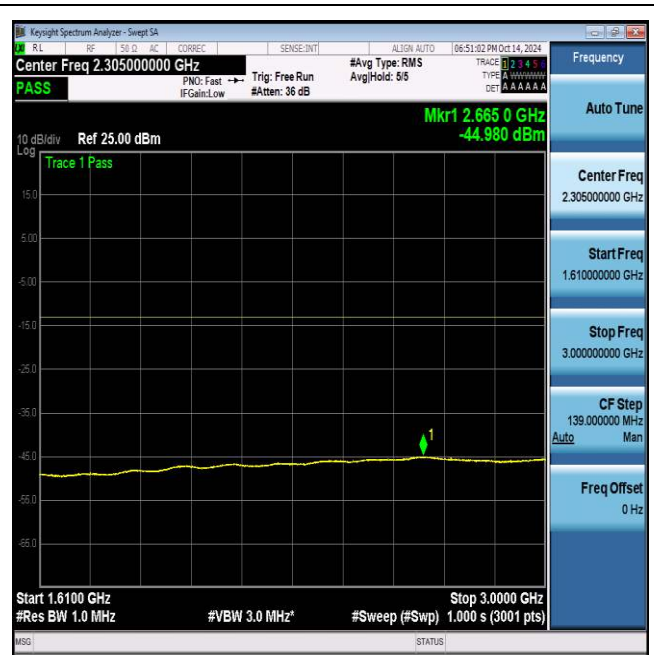
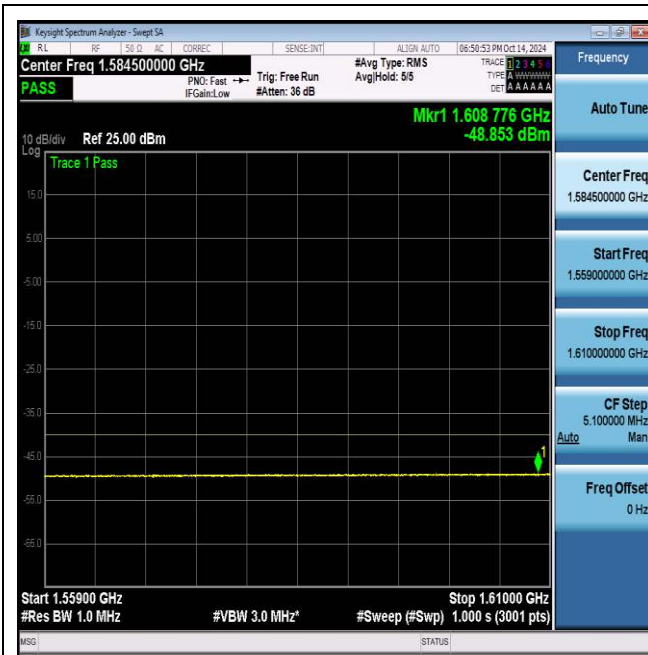


NTNV_N13_PC3_15_10_H_TID18_#1

Conducted Spurious Emission for SA

Test Graphs





Frequency Stability for SA

Test Result

Frequency Error VS. Voltage

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temp	Deviation (Hz)	Deviation (ppm)	Verdict
N13	15	10	DFT-PI2BPSK	M	Outer_Full	VL	NT	-2.700000	-0.003453	PASS
N13	15	10	DFT-PI2BPSK	M	Outer_Full	VN	NT	0.700000	0.000895	PASS
N13	15	10	DFT-PI2BPSK	M	Outer_Full	VH	NT	1.100000	0.001407	PASS
N13	15	10	CP-QPSK	M	Outer_Full	VL	NT	-2.800000	-0.003581	PASS
N13	15	10	CP-QPSK	M	Outer_Full	VN	NT	2.000000	0.002558	PASS
N13	15	10	CP-QPSK	M	Outer_Full	VH	NT	4.600000	0.005882	PASS

Frequency Error VS. Temperature

Temperature										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temp	Deviation (Hz)	Deviation (ppm)	Verdict
N13	15	10	DFT-PI2BPSK	M	Outer_Full	NV	-30	-1.900000	-0.002430	PASS
N13	15	10	DFT-PI2BPSK	M	Outer_Full	NV	-20	-1.600000	-0.002046	PASS
N13	15	10	DFT-PI2BPSK	M	Outer_Full	NV	-10	-3.500000	-0.004476	PASS
N13	15	10	DFT-PI2BPSK	M	Outer_Full	NV	0	-2.600000	-0.003325	PASS
N13	15	10	DFT-PI2BPSK	M	Outer_Full	NV	10	-3.400000	-0.004348	PASS
N13	15	10	DFT-PI2BPSK	M	Outer_Full	NV	20	-7.100000	-0.009079	PASS
N13	15	10	DFT-PI2BPSK	M	Outer_Full	NV	30	-2.900000	-0.003708	PASS
N13	15	10	DFT-PI2BPSK	M	Outer_Full	NV	40	-1.600000	-0.002046	PASS
N13	15	10	DFT-PI2BPSK	M	Outer_Full	NV	50	-4.099999	-0.005243	PASS
N13	15	10	CP-QPSK	M	Outer_Full	NV	-30	3.600000	0.004604	PASS
N13	15	10	CP-QPSK	M	Outer_Full	NV	-20	2.000000	0.002558	PASS
N13	15	10	CP-QPSK	M	Outer_Full	NV	-10	1.800000	0.002302	PASS
N13	15	10	CP-QPSK	M	Outer_Full	NV	0	1.800000	0.002302	PASS
N13	15	10	CP-QPSK	M	Outer_Full	NV	10	2.200000	0.002813	PASS
N13	15	10	CP-QPSK	M	Outer_Full	NV	20	1.800000	0.002302	PASS
N13	15	10	CP-QPSK	M	Outer_Full	NV	30	3.100000	0.003963	PASS
N13	15	10	CP-QPSK	M	Outer_Full	NV	40	-1.400000	-0.001790	PASS
N13	15	10	CP-QPSK	M	Outer_Full	NV	50	2.500000	0.003197	PASS