

Appendix-C LTE Band 14

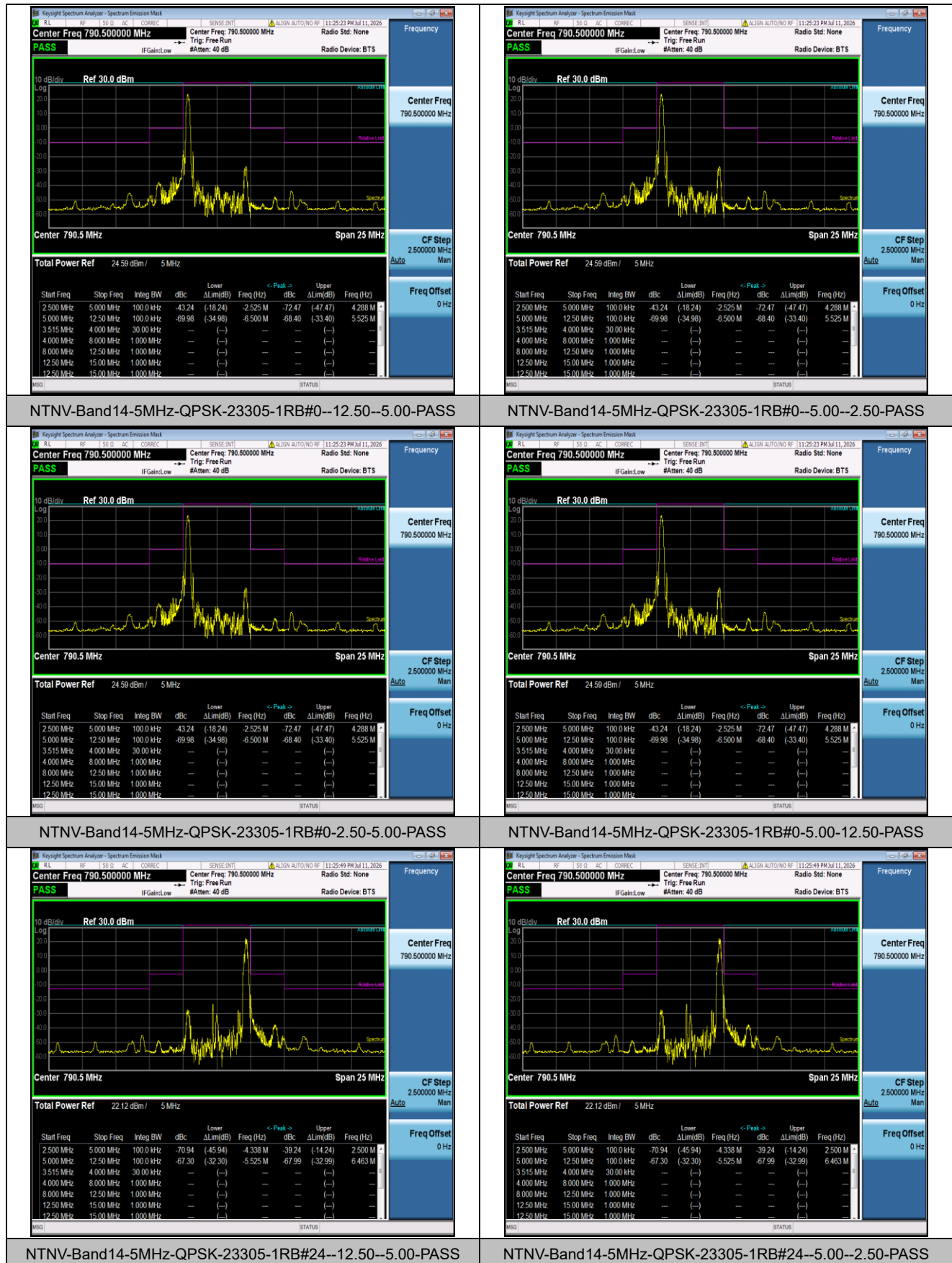
Effective (Isotropic) Radiated Power Output Data

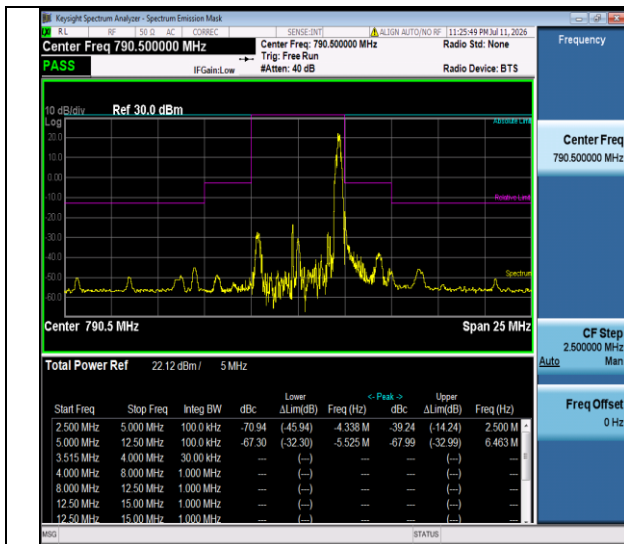
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band14	5MHz	QPSK	23305	1RB#0	23.41	22.2	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#12	23.43	22.22	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#24	23.45	22.24	34.77	PASS
Band14	5MHz	QPSK	23305	25RB#0	22.42	21.21	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#0	23.58	22.37	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#12	23.41	22.2	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#24	23.36	22.15	34.77	PASS
Band14	5MHz	QPSK	23330	25RB#0	22.39	21.18	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#0	23.41	22.2	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#12	23.55	22.34	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#24	23.41	22.2	34.77	PASS
Band14	5MHz	QPSK	23355	25RB#0	22.42	21.21	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#0	22.77	21.56	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#12	22.95	21.74	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#24	22.65	21.44	34.77	PASS
Band14	5MHz	16QAM	23305	25RB#0	21.35	20.14	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#0	23.04	21.83	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#12	22.85	21.64	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#24	23.02	21.81	34.77	PASS
Band14	5MHz	16QAM	23330	25RB#0	21.54	20.33	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#0	22.67	21.46	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#12	22.73	21.52	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#24	22.48	21.27	34.77	PASS
Band14	5MHz	16QAM	23355	25RB#0	21.5	20.29	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#0	23.67	22.46	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#24	23.45	22.24	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#49	23.52	22.31	34.77	PASS
Band14	10MHz	QPSK	23330	50RB#0	22.58	21.37	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#0	23.05	21.84	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#24	22.95	21.74	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#49	22.4	21.19	34.77	PASS
Band14	10MHz	16QAM	23330	50RB#0	21.58	20.37	34.77	PASS

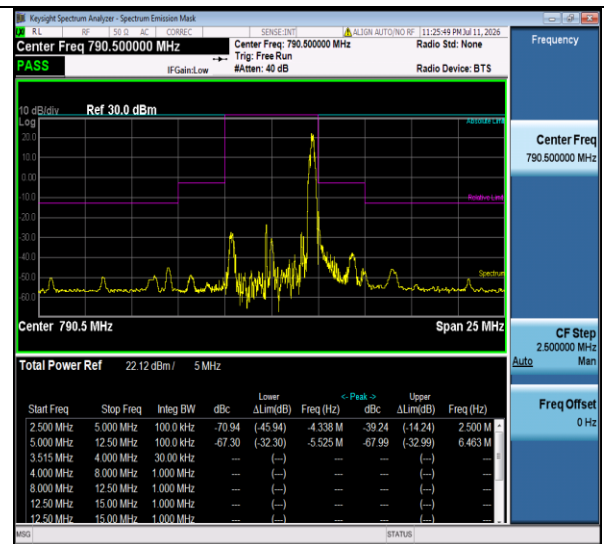
Spectrum_emission_mask

Test Graphs





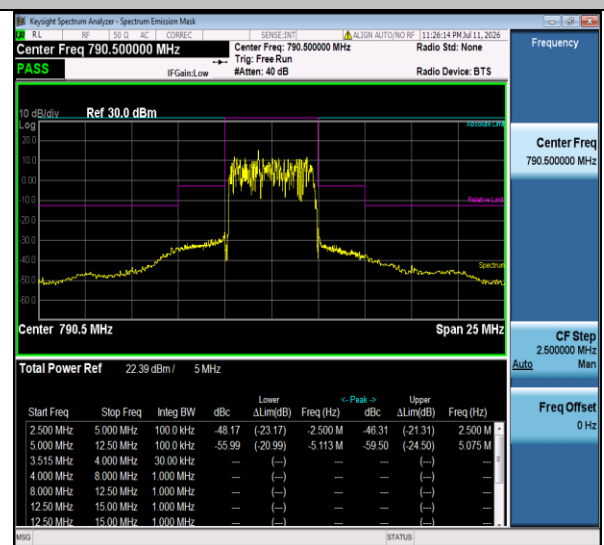
NTNV-Band14-5MHz-QPSK-23305-1RB#24--2.50-2.50-PASS



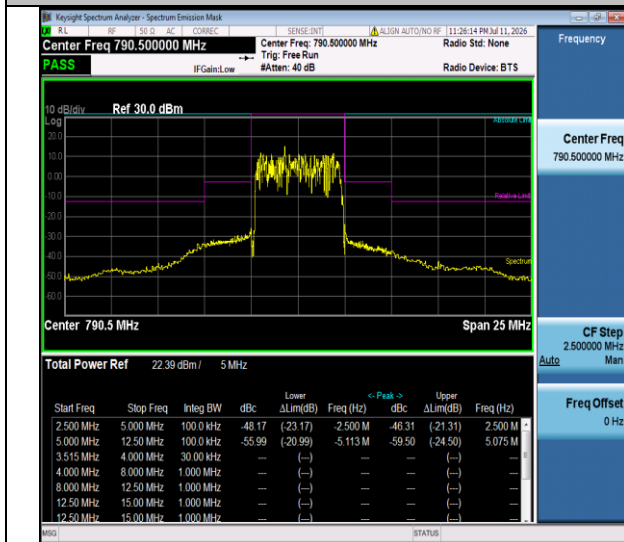
NTNV-Band14-5MHz-QPSK-23305-1RB#24-5.00-12.50-PASS



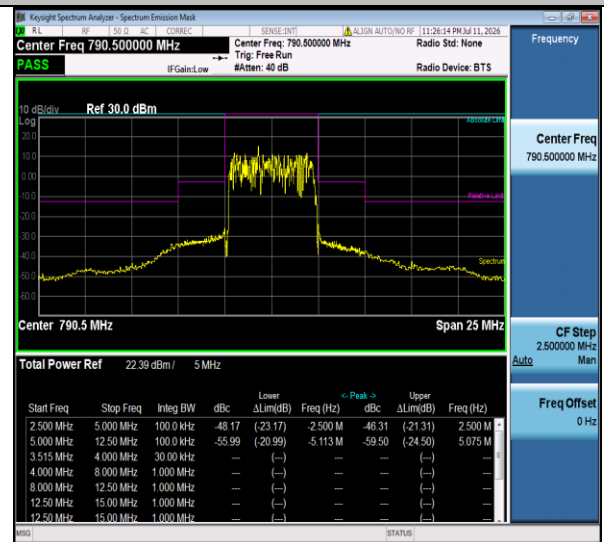
NTNV-Band14-5MHz-QPSK-23305-25RB#0--12.50--5.00-PASS



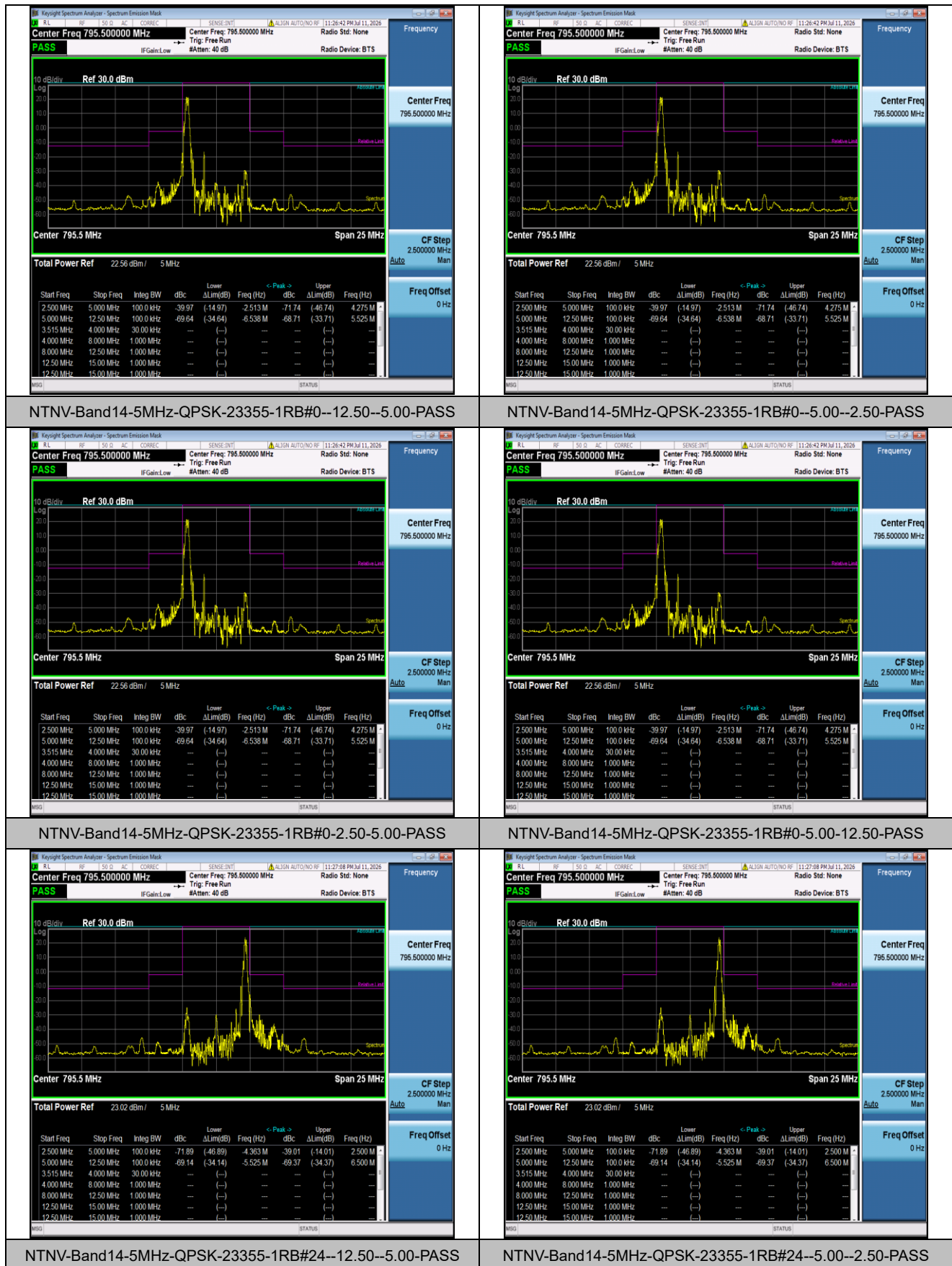
NTNV-Band14-5MHz-QPSK-23305-25RB#0--5.00--2.50-PASS

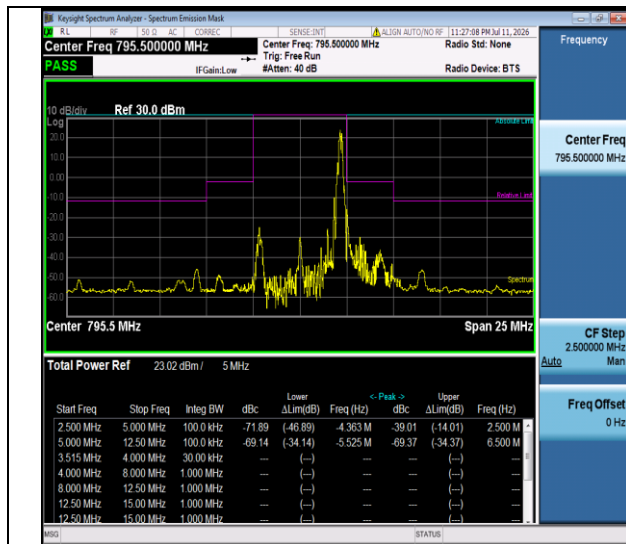


NTNV-Band14-5MHz-QPSK-23305-25RB#0--2.50-2.50-PASS

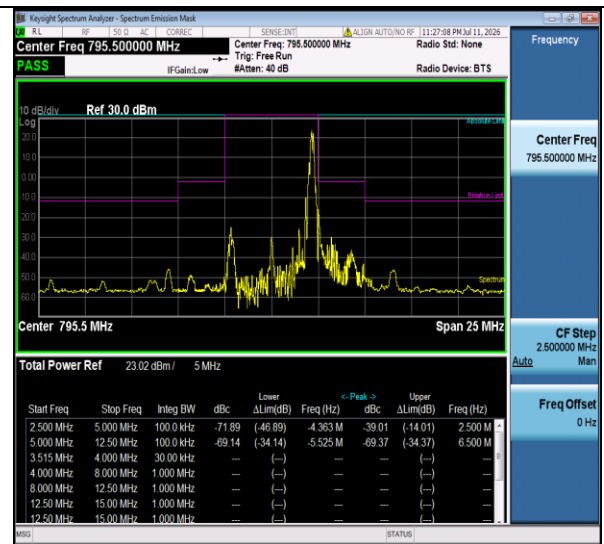


NTNV-Band14-5MHz-QPSK-23305-25RB#0-5.00-12.50-PASS





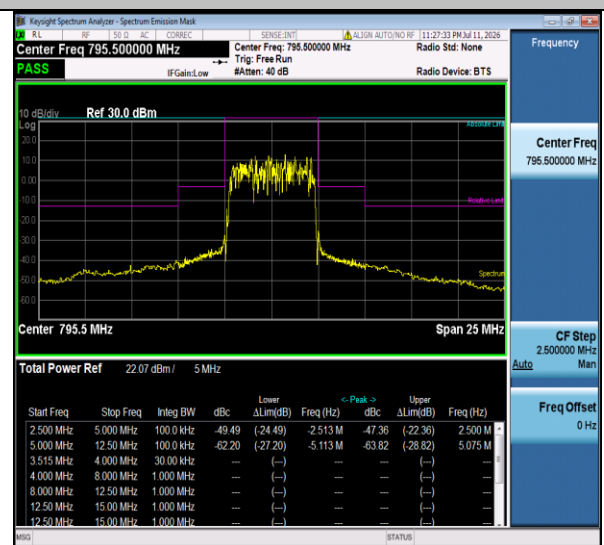
NTN-Band14-5MHz-QPSK-23355-1RB#24--2.50-2.50-PASS



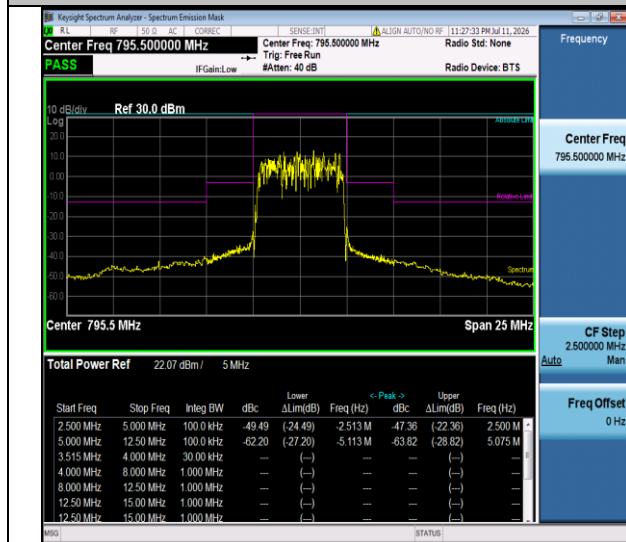
NTN-Band14-5MHz-QPSK-23355-1RB#24-5.00-12.50-PASS



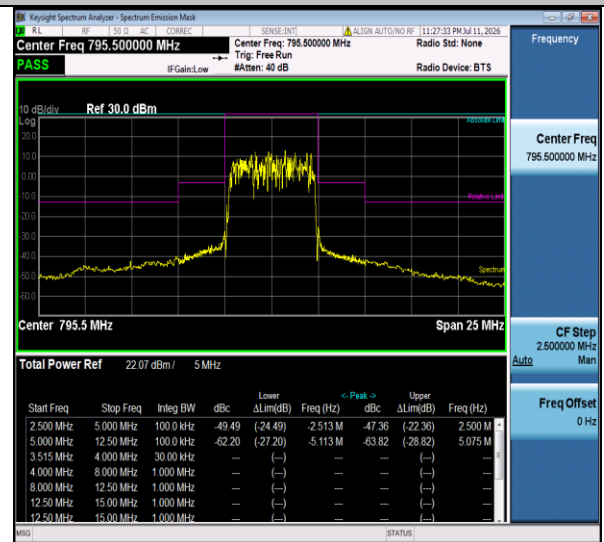
NTN-Band14-5MHz-QPSK-23355-25RB#0--12.50--5.00-PASS



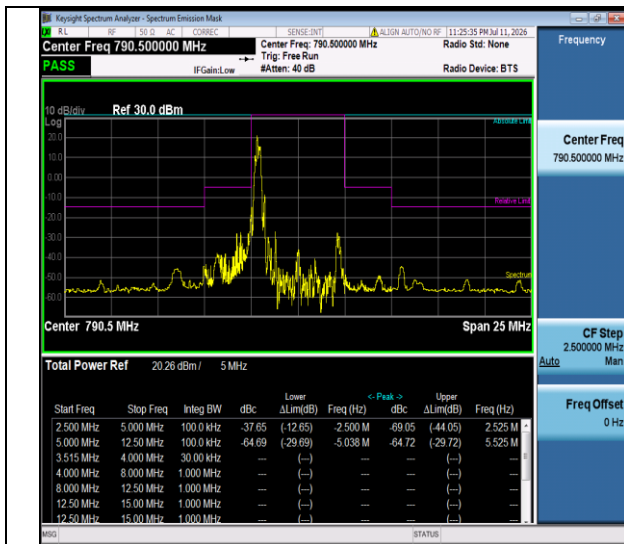
NTN-Band14-5MHz-QPSK-23355-25RB#0--5.00--2.50-PASS



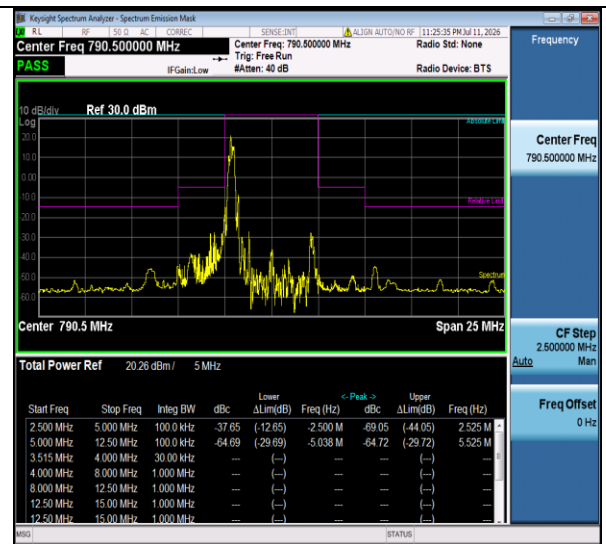
NTN-Band14-5MHz-QPSK-23355-25RB#0--2.50-2.50-PASS



NTN-Band14-5MHz-QPSK-23355-25RB#0-5.00-12.50-PASS



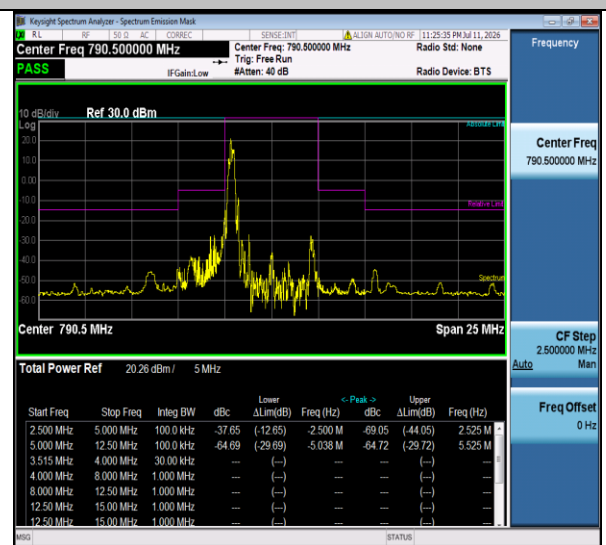
NTNV-Band14-5MHz-16QAM-23305-1RB#0--12.50--5.00-PASS



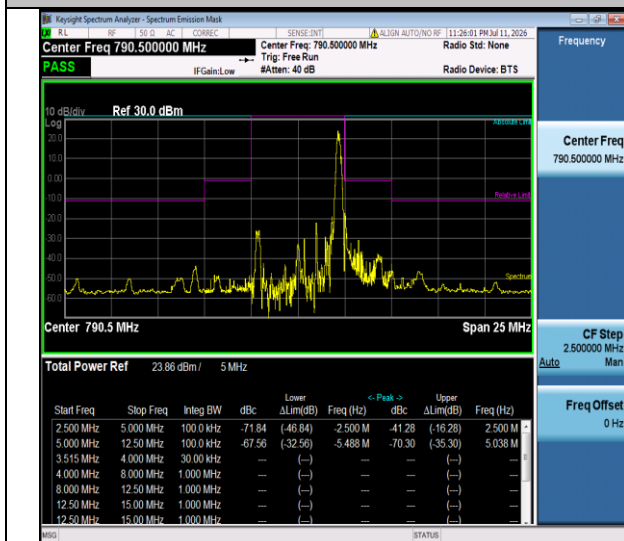
NTNV-Band14-5MHz-16QAM-23305-1RB#0--5.00--2.50-PASS



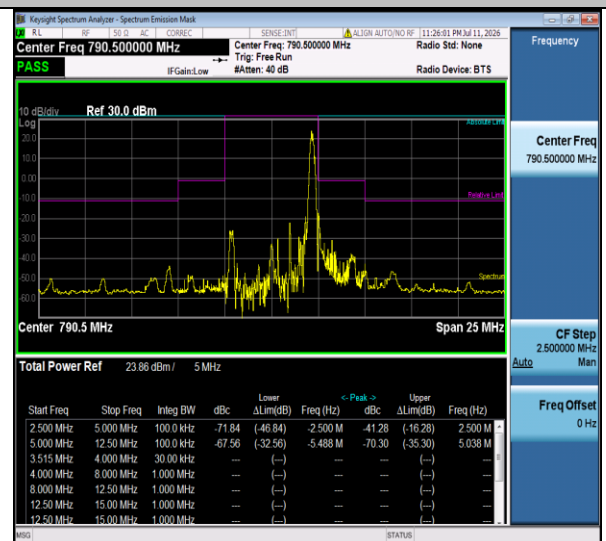
NTNV-Band14-5MHz-16QAM-23305-1RB#0-2.50-5.00-PASS



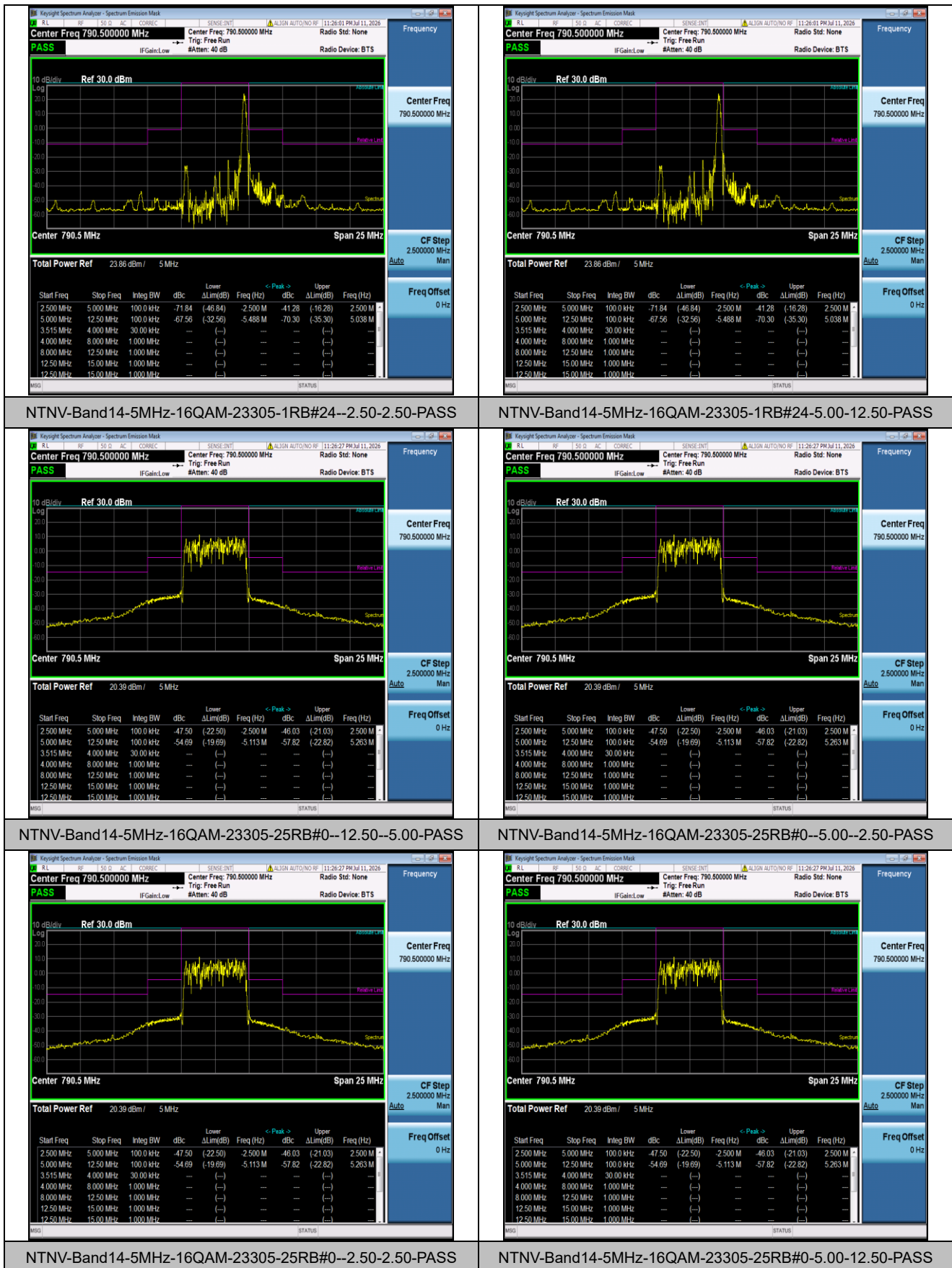
NTNV-Band14-5MHz-16QAM-23305-1RB#0-5.00-12.50-PASS

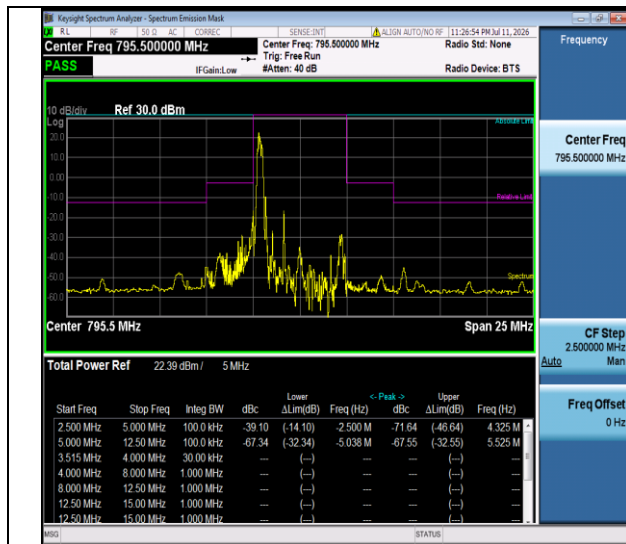


NTNV-Band14-5MHz-16QAM-23305-1RB#24--12.50--5.00-PASS

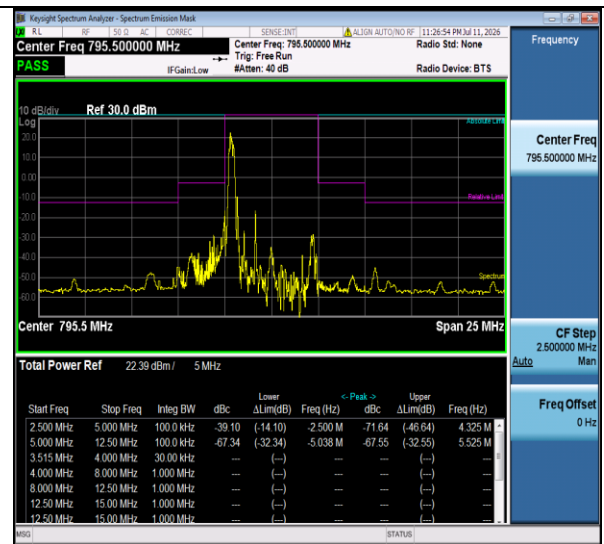


NTNV-Band14-5MHz-16QAM-23305-1RB#24--5.00--2.50-PASS

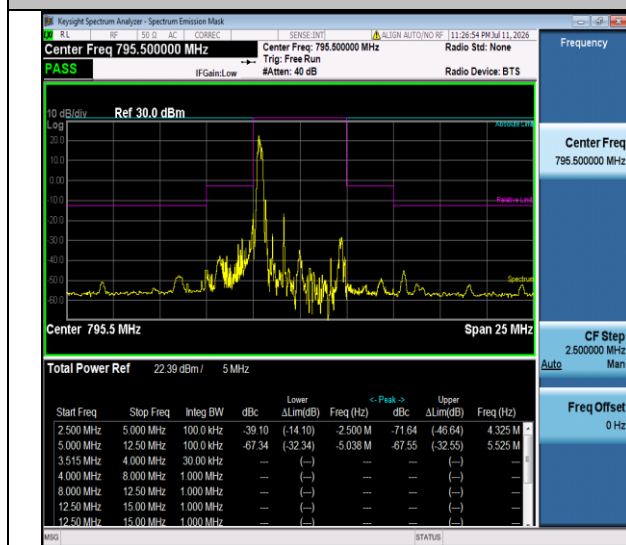




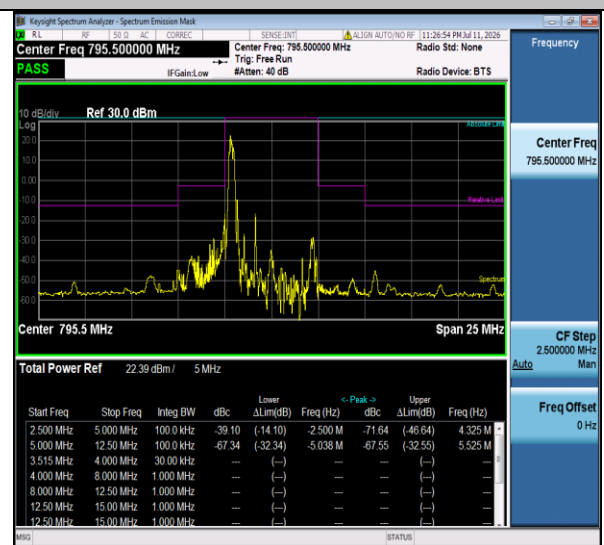
NTNV-Band14-5MHz-16QAM-23355-1RB#0--12.50--5.00-PASS



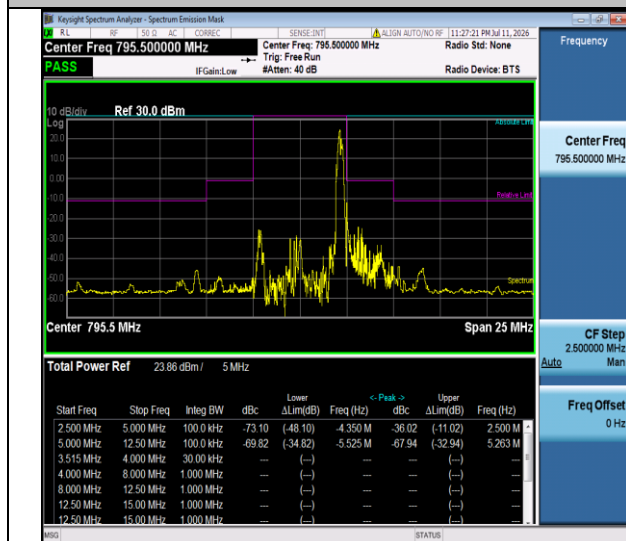
NTNV-Band14-5MHz-16QAM-23355-1RB#0--5.00--2.50-PASS



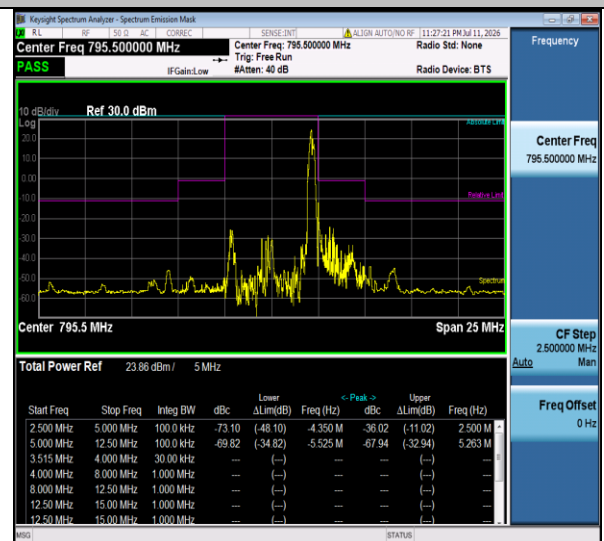
NTNV-Band14-5MHz-16QAM-23355-1RB#0-2.50-5.00-PASS



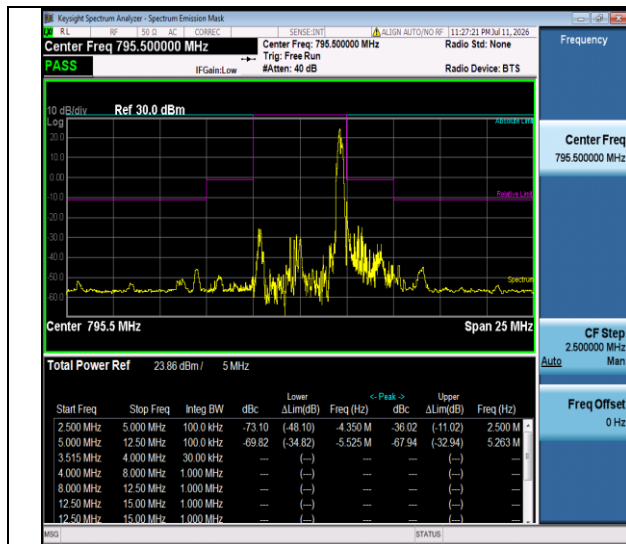
NTNV-Band14-5MHz-16QAM-23355-1RB#0-5.00-12.50-PASS



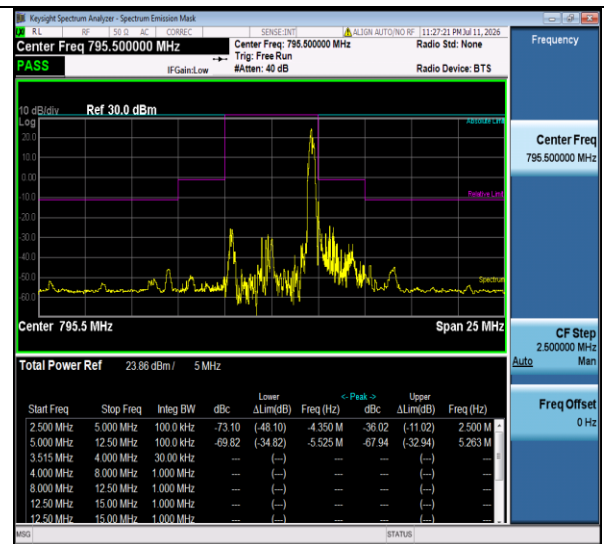
NTNV-Band14-5MHz-16QAM-23355-1RB#24--12.50--5.00-PASS



NTNV-Band14-5MHz-16QAM-23355-1RB#24--5.00--2.50-PASS



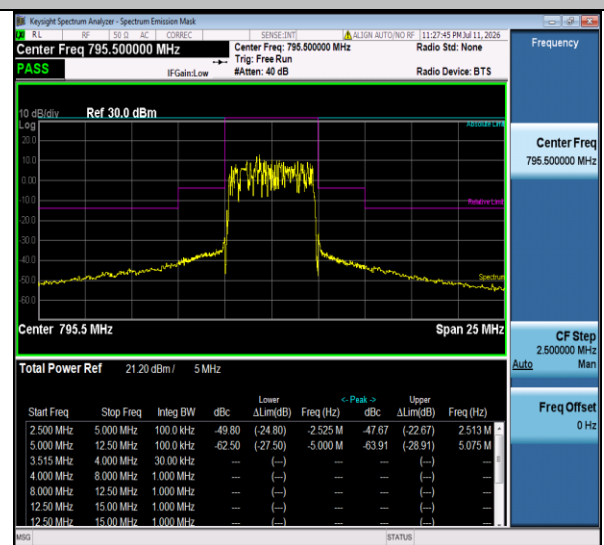
NTNV-Band14-5MHz-16QAM-23355-1RB#24--2.50-2.50-PASS



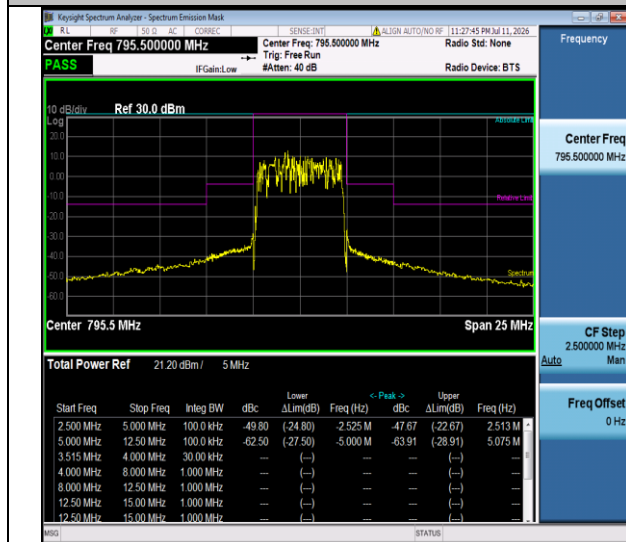
NTNV-Band14-5MHz-16QAM-23355-1RB#24-5.00-12.50-PASS



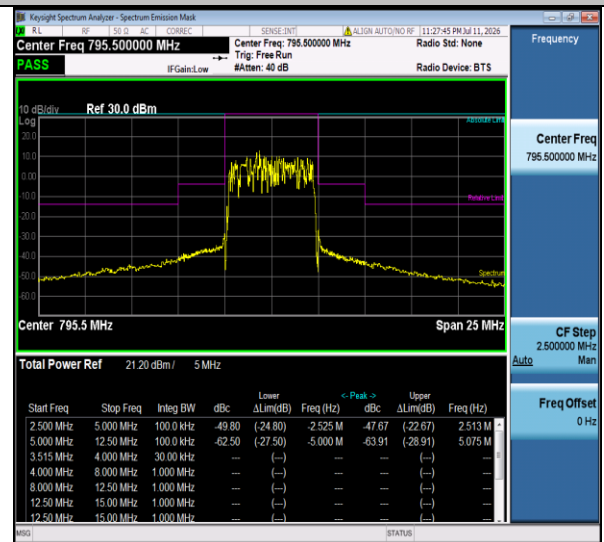
NTNV-Band14-5MHz-16QAM-23355-25RB#0--12.50--5.00-PASS



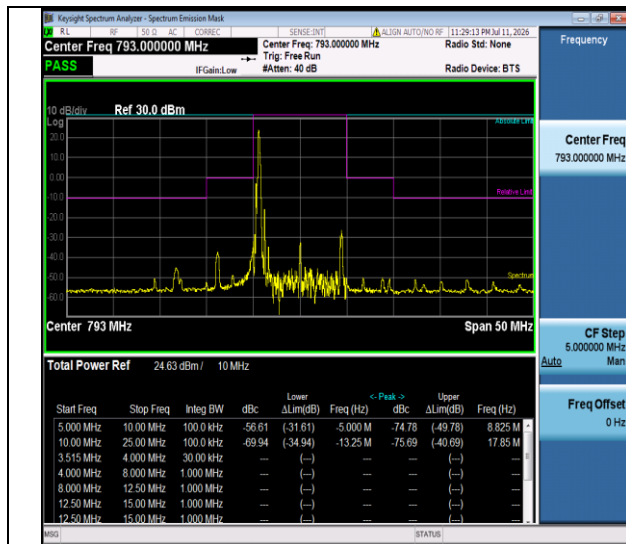
NTNV-Band14-5MHz-16QAM-23355-25RB#0--5.00--2.50-PASS



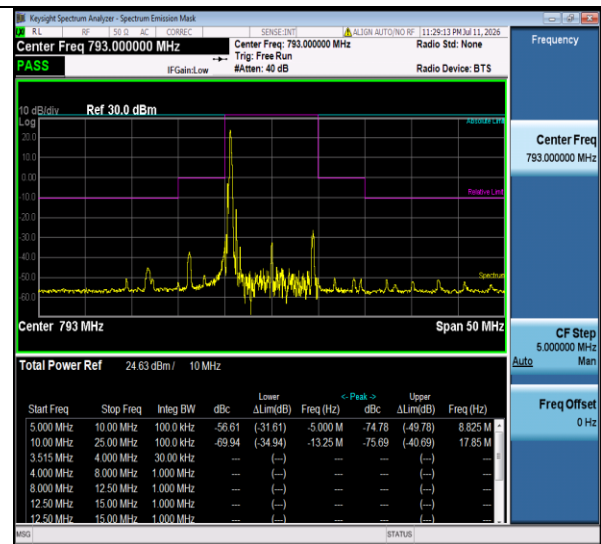
NTNV-Band14-5MHz-16QAM-23355-25RB#0-2.50-5.00-PASS



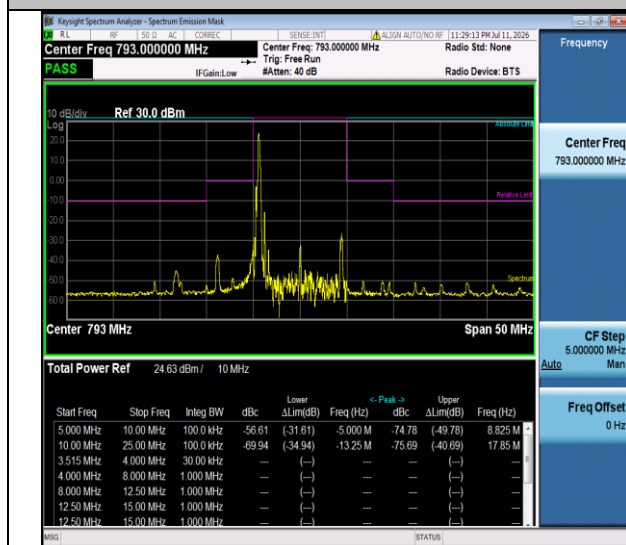
NTNV-Band14-5MHz-16QAM-23355-25RB#0-5.00-12.50-PASS



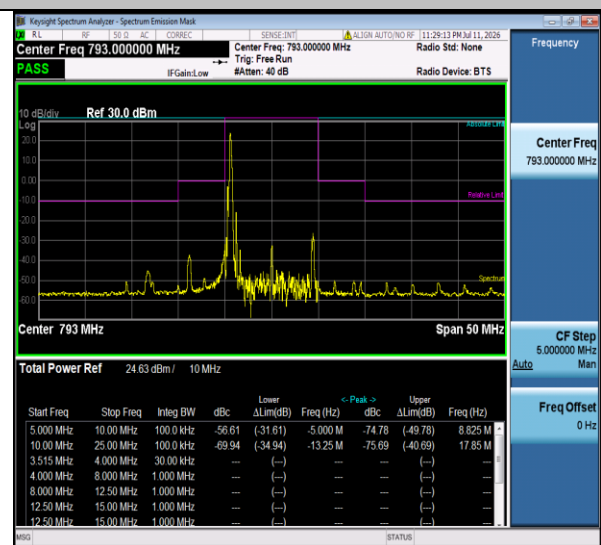
NTNV-Band14-10MHz-QPSK-23330-1RB#0--25.00--10.00-PASS



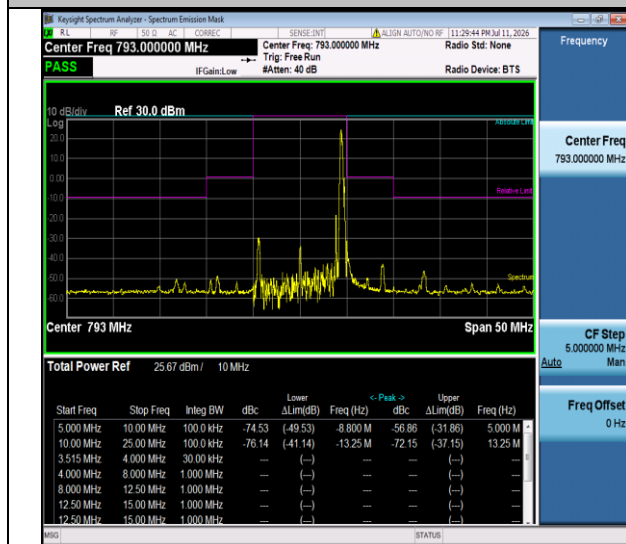
NTNV-Band14-10MHz-QPSK-23330-1RB#0--10.00--5.00-PASS



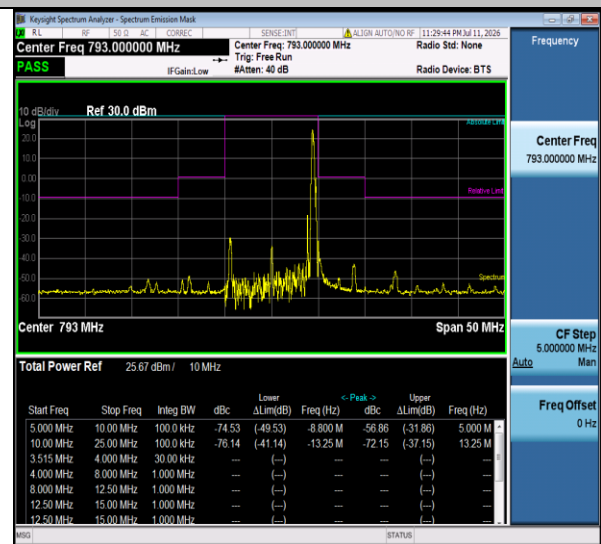
NTNV-Band14-10MHz-QPSK-23330-1RB#0-5.00-10.00-PASS



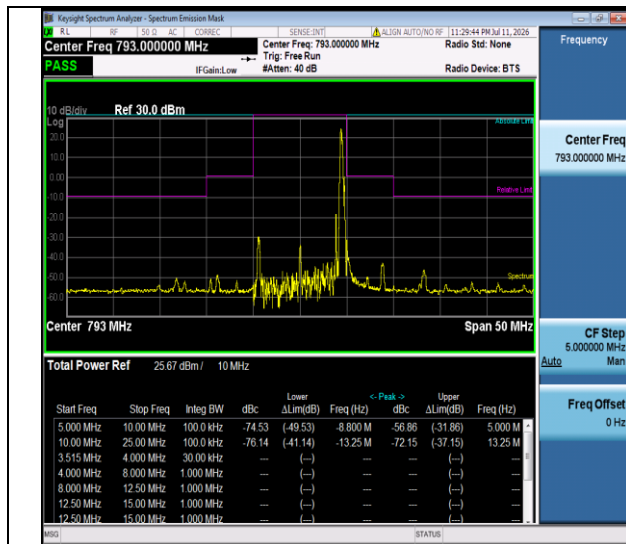
NTNV-Band14-10MHz-QPSK-23330-1RB#0-10.00-25.00-PASS



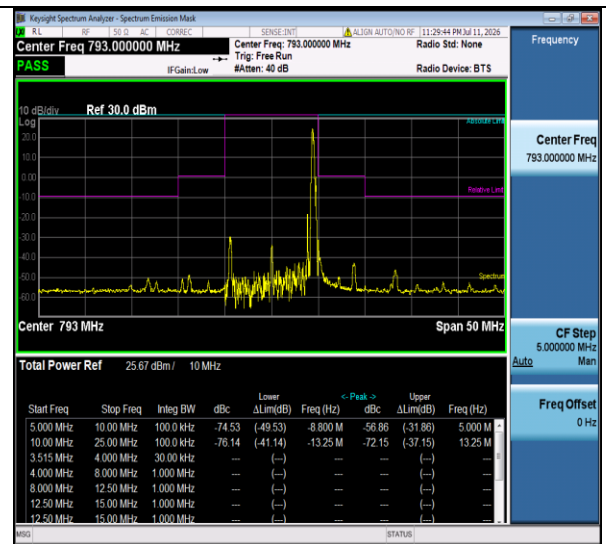
NTNV-Band14-10MHz-QPSK-23330-1RB#49--25.00--10.00-PASS



NTNV-Band14-10MHz-QPSK-23330-1RB#49--10.00--5.00-PASS



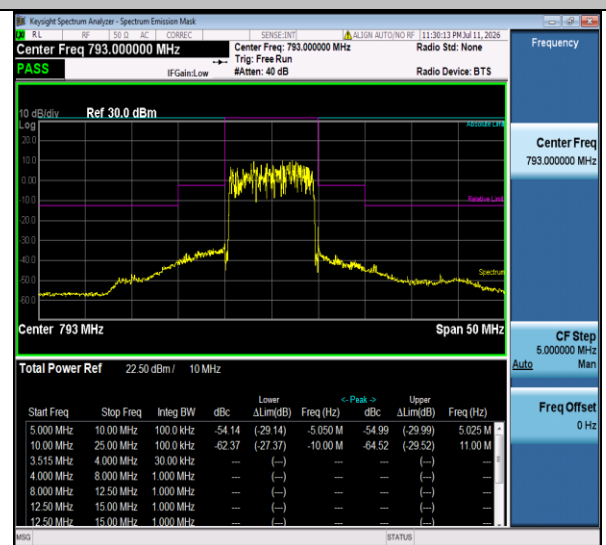
NTNV-Band14-10MHz-QPSK-23330-1RB#49--5.00-5.00-PASS



NTNV-Band14-10MHz-QPSK-23330-1RB#49-10.00-25.00-PASS



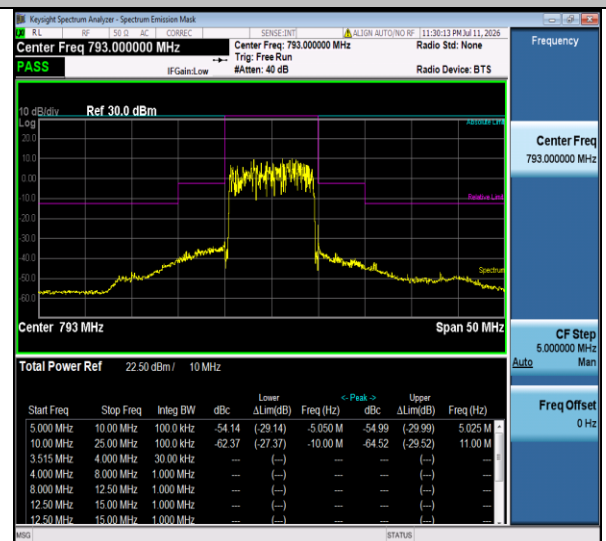
NTNV-Band14-10MHz-QPSK-23330-50RB#0--25.00--10.00-PASS



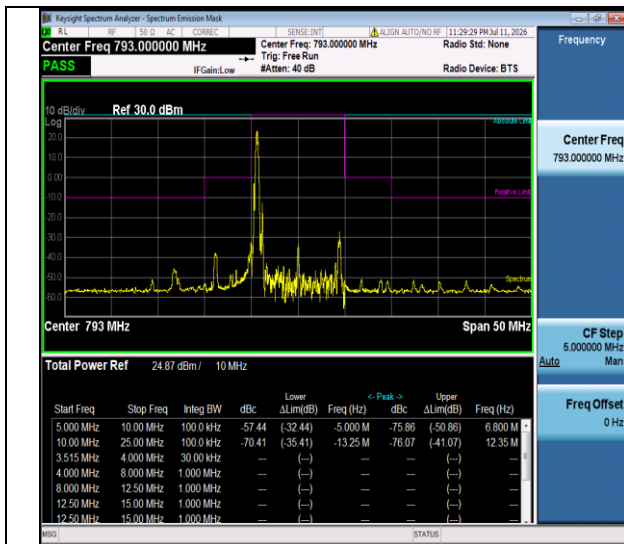
NTNV-Band14-10MHz-QPSK-23330-50RB#0-10.00--5.00-PASS



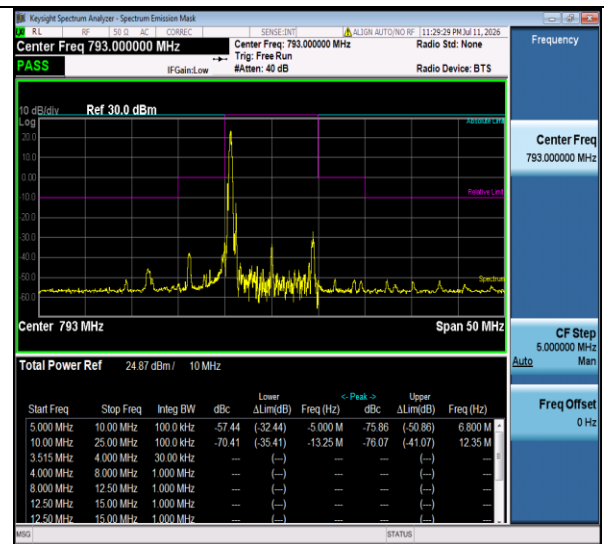
NTNV-Band14-10MHz-QPSK-23330-50RB#0-5.00-10.00-PASS



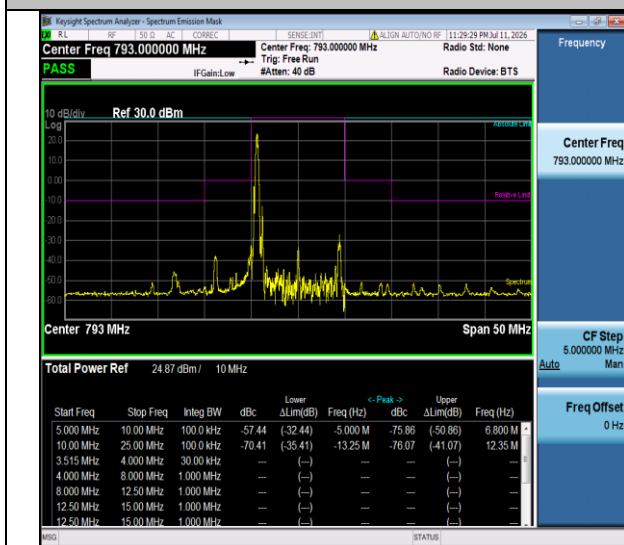
NTNV-Band14-10MHz-QPSK-23330-50RB#0-10.00-25.00-PASS



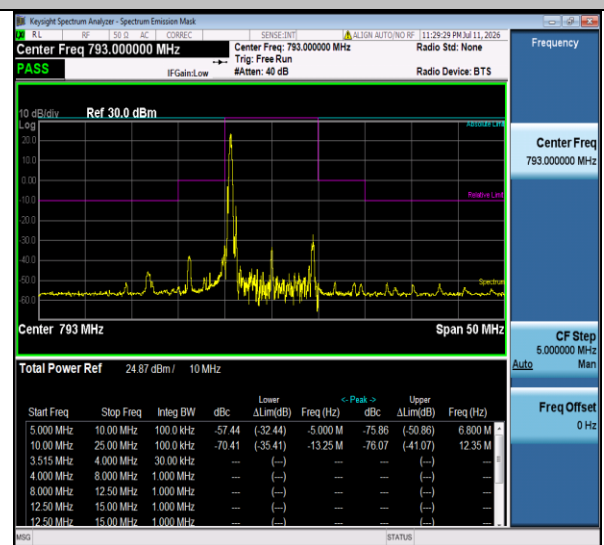
NTNV-Band14-10MHz-16QAM-23330-1RB#0--25.00--10.00-PASS



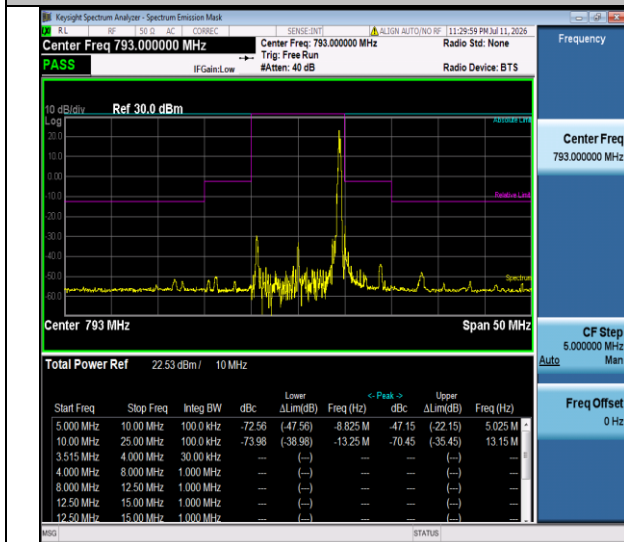
NTNV-Band14-10MHz-16QAM-23330-1RB#0--10.00--5.00-PASS



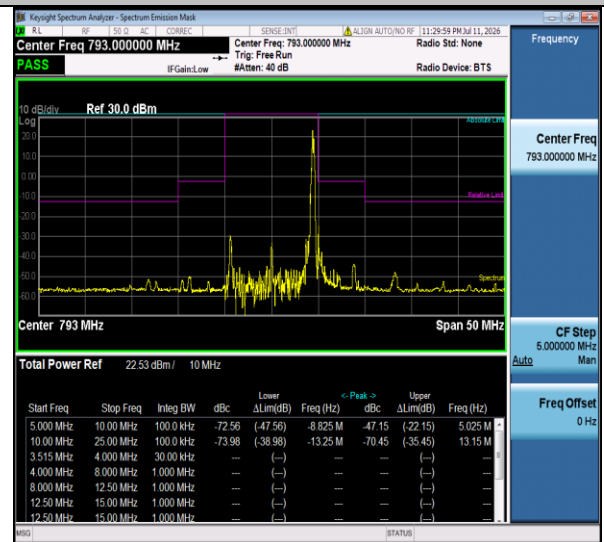
NTNV-Band14-10MHz-16QAM-23330-1RB#0.5.00-10.00-PASS



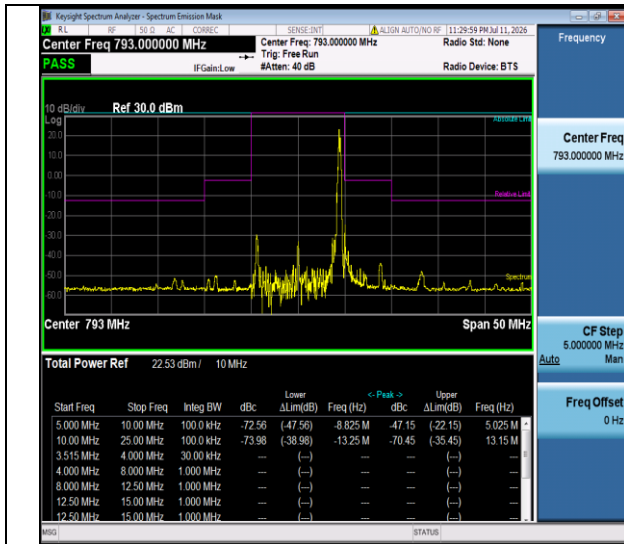
NTNV-Band14-10MHz-16QAM-23330-1RB#0-10.00-25.00-PASS



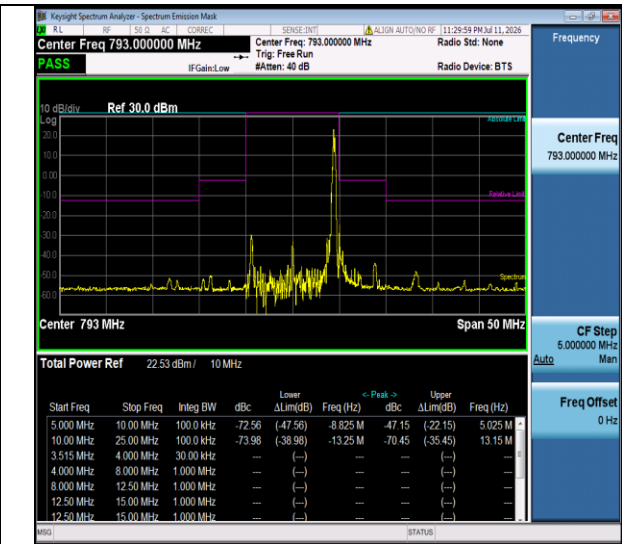
NTNV-Band14-10MHz-16QAM-23330-1RB#49--25.00--10.00-PASS



NTNV-Band14-10MHz-16QAM-23330-1RB#49--10.00--5.00-PASS



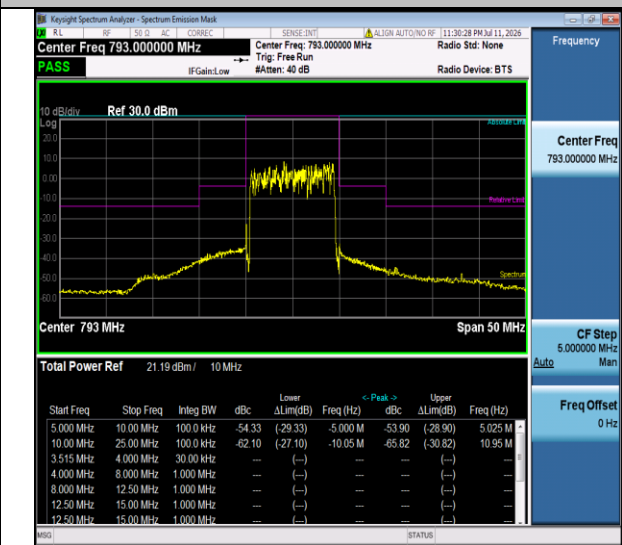
NTNV-Band14-10MHz-16QAM-23330-1RB#49-5.00-10.00-PASS



NTNV-Band14-10MHz-16QAM-23330-1RB#49-10.00-25.00-PASS



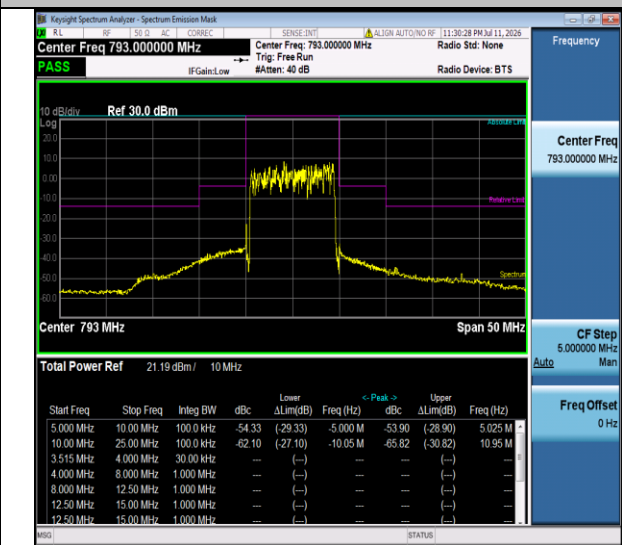
NTNV-Band14-10MHz-16QAM-23330-50RB#0--25.00--10.00-PASS



NTNV-Band14-10MHz-16QAM-23330-50RB#0--10.00--5.00-PASS



NTNV-Band14-10MHz-16QAM-23330-50RB#0-5.00-10.00-PASS



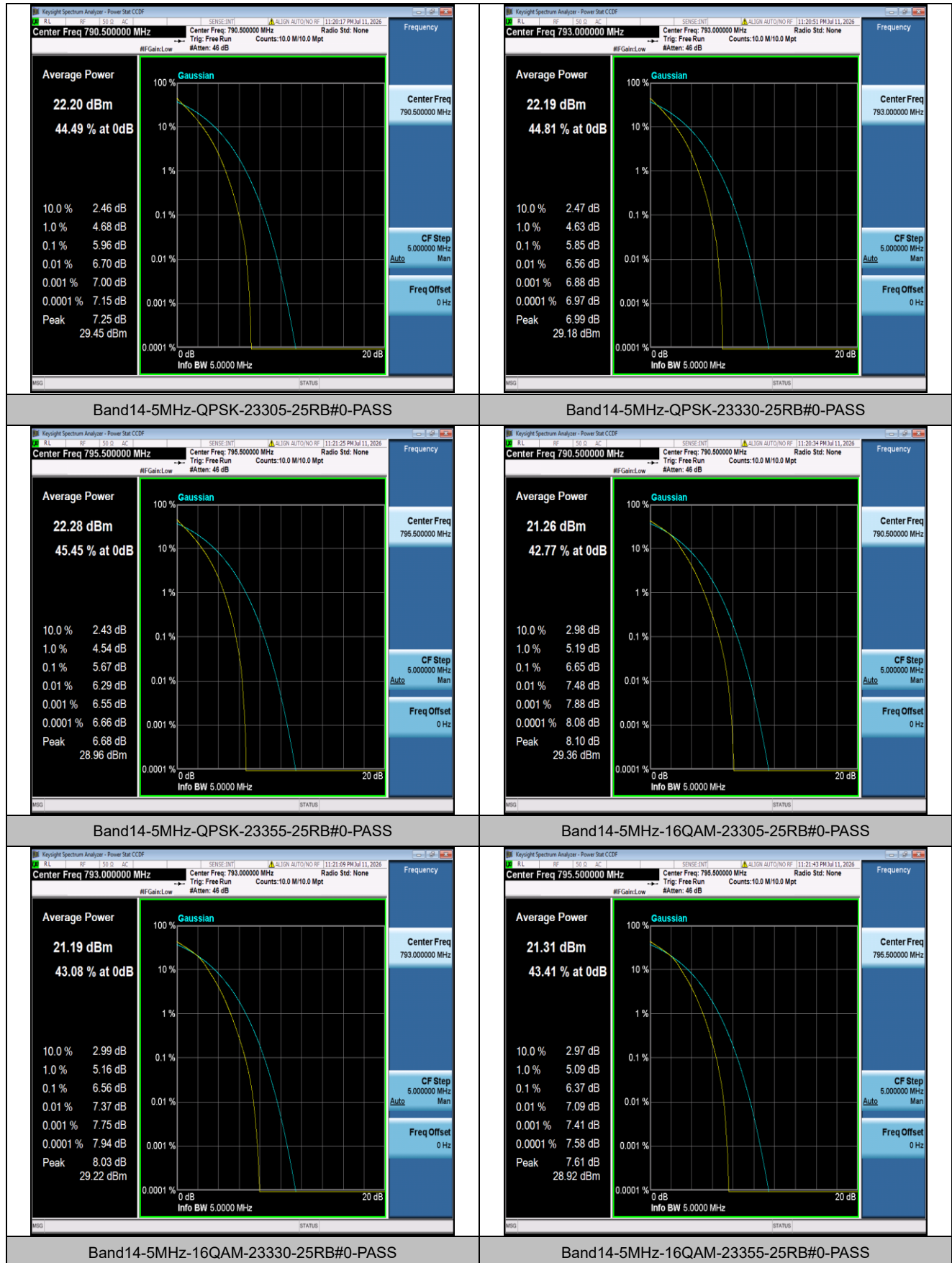
NTNV-Band14-10MHz-16QAM-23330-50RB#0-10.00-25.00-PASS

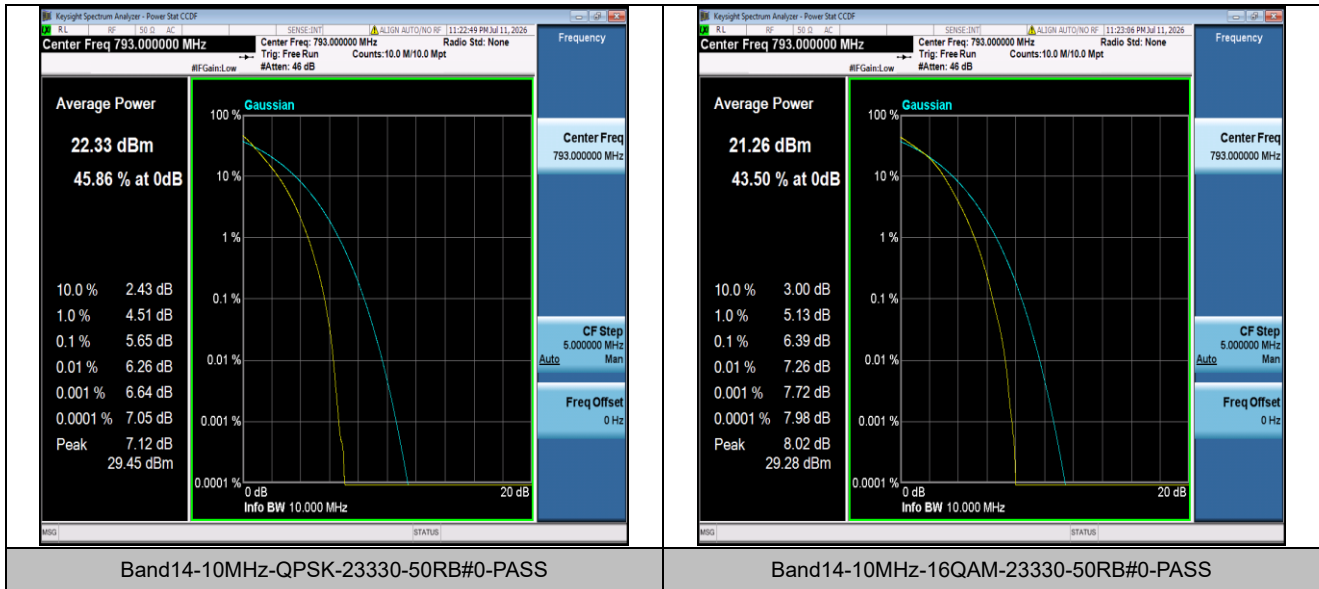
Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dB)	Limit (dB)	Verdict
Band14	5MHz	QPSK	23305	25RB#0	5.96	13	PASS
Band14	5MHz	QPSK	23330	25RB#0	5.85	13	PASS
Band14	5MHz	QPSK	23355	25RB#0	5.67	13	PASS
Band14	5MHz	16QAM	23305	25RB#0	6.65	13	PASS
Band14	5MHz	16QAM	23330	25RB#0	6.56	13	PASS
Band14	5MHz	16QAM	23355	25RB#0	6.37	13	PASS
Band14	10MHz	QPSK	23330	50RB#0	5.65	13	PASS
Band14	10MHz	16QAM	23330	50RB#0	6.39	13	PASS

Test Graphs



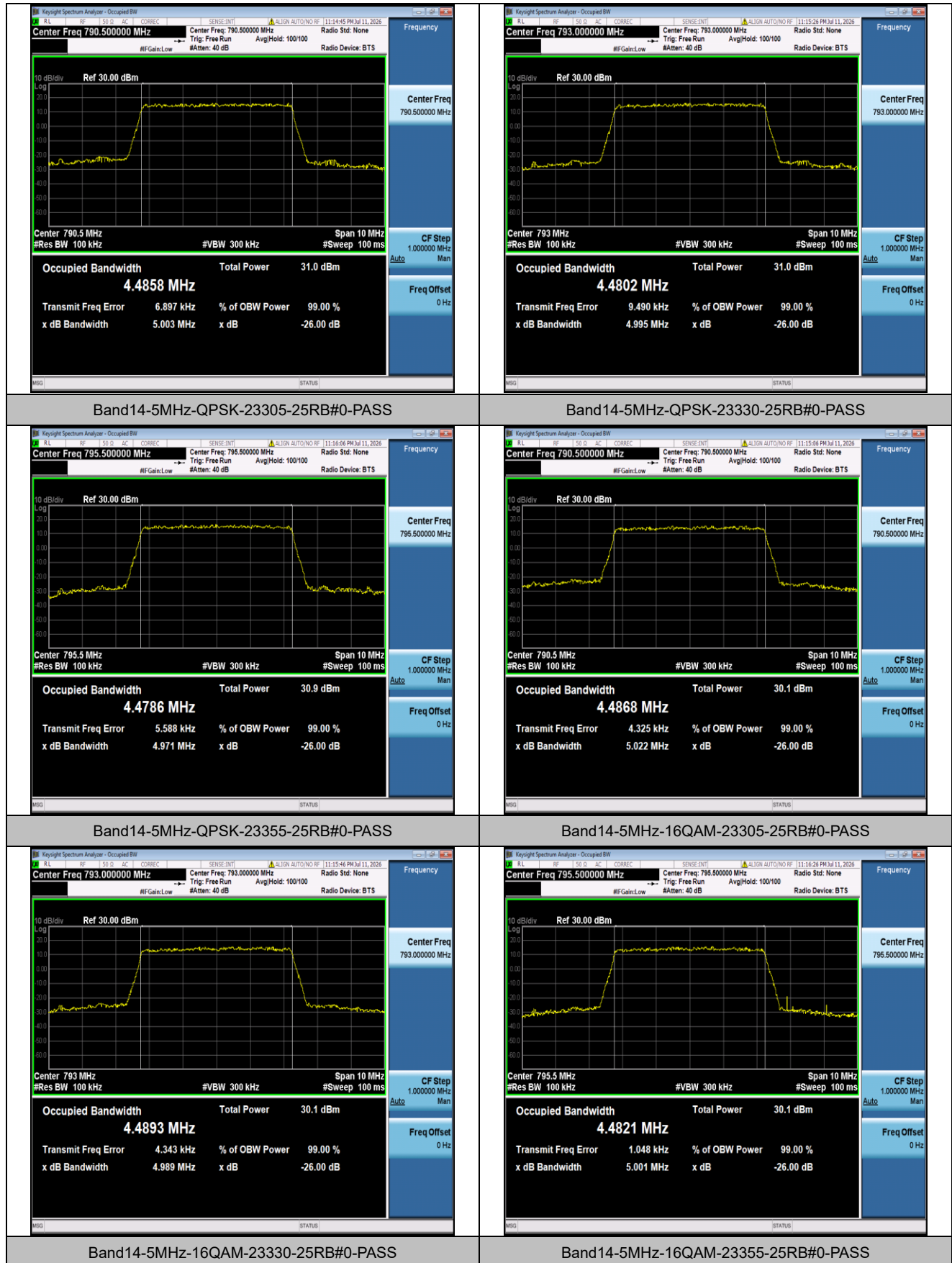


26dB Bandwidth and Occupied Bandwidth

Test Result

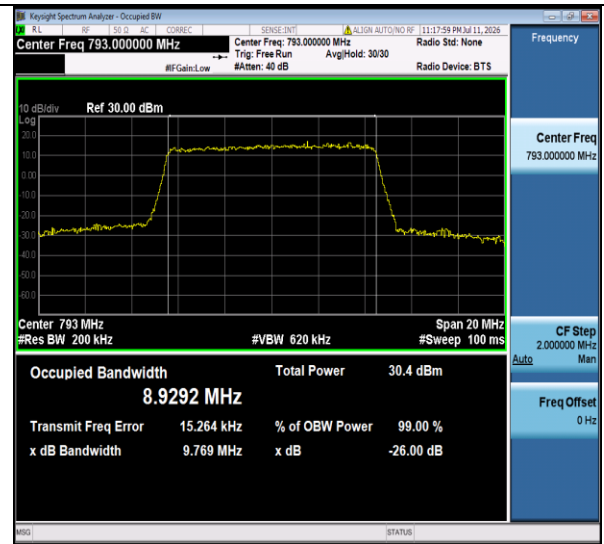
Band	Bandwidth	Modulation	Channel	RB Configuration	OBW (MHz)	26dB EBW (MHz)	Verdict
Band14	5MHz	QPSK	23305	25RB#0	4.4858	5.003	PASS
Band14	5MHz	QPSK	23330	25RB#0	4.4802	4.995	PASS
Band14	5MHz	QPSK	23355	25RB#0	4.4786	4.971	PASS
Band14	5MHz	16QAM	23305	25RB#0	4.4868	5.022	PASS
Band14	5MHz	16QAM	23330	25RB#0	4.4893	4.989	PASS
Band14	5MHz	16QAM	23355	25RB#0	4.4821	5.001	PASS
Band14	10MHz	QPSK	23330	50RB#0	8.9600	9.792	PASS
Band14	10MHz	16QAM	23330	50RB#0	8.9292	9.769	PASS

Test Graphs





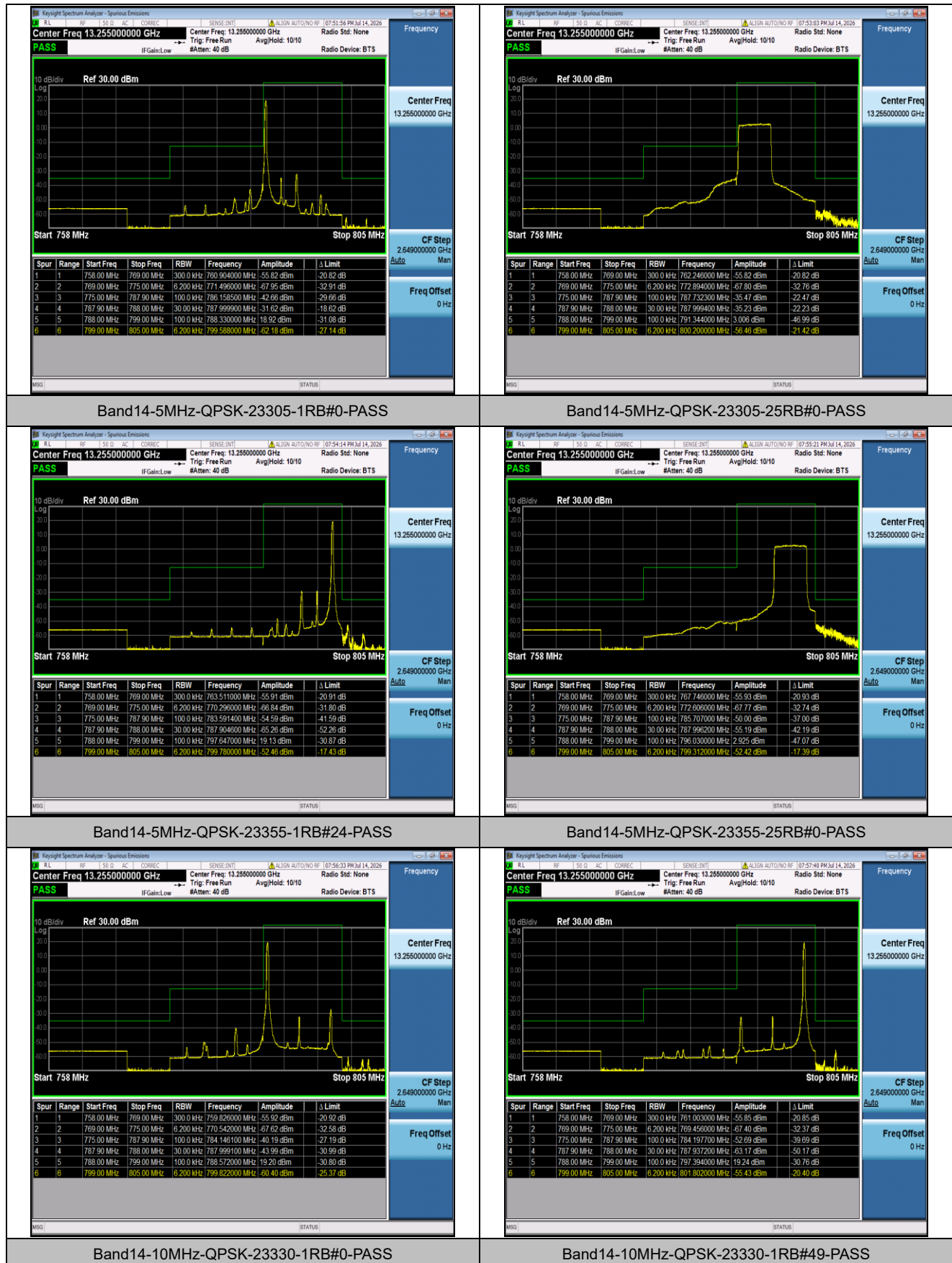
Band14-10MHz-QPSK-23330-50RB#0-PASS

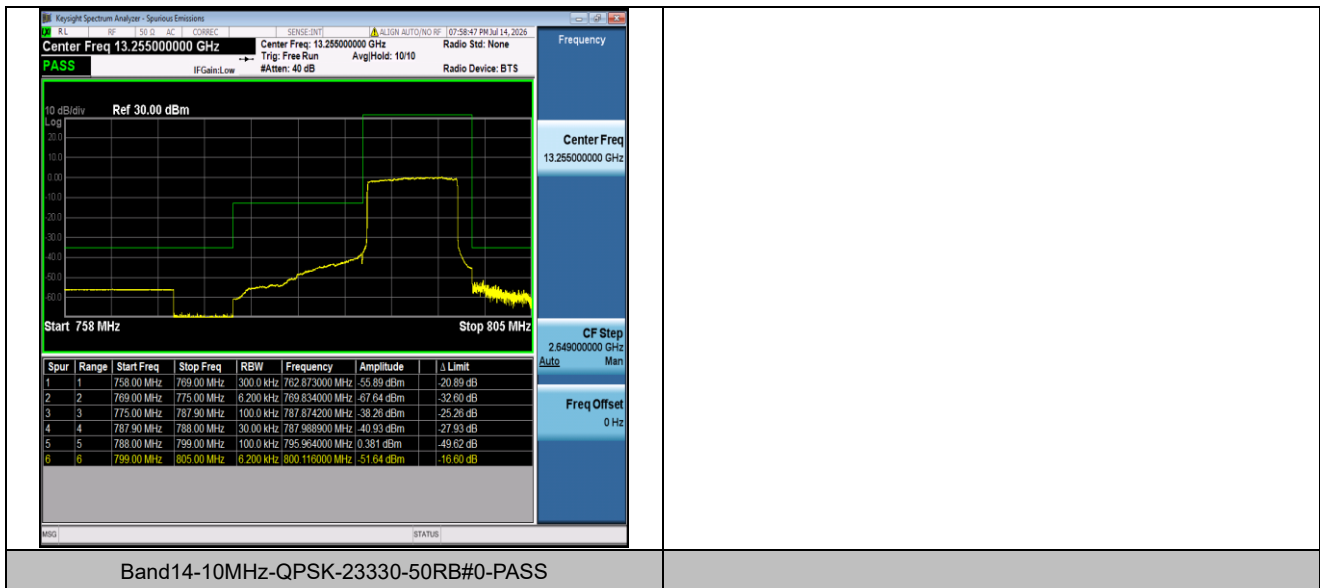


Band14-10MHz-16QAM-23330-50RB#0-PASS

Band Edge

Test Graphs

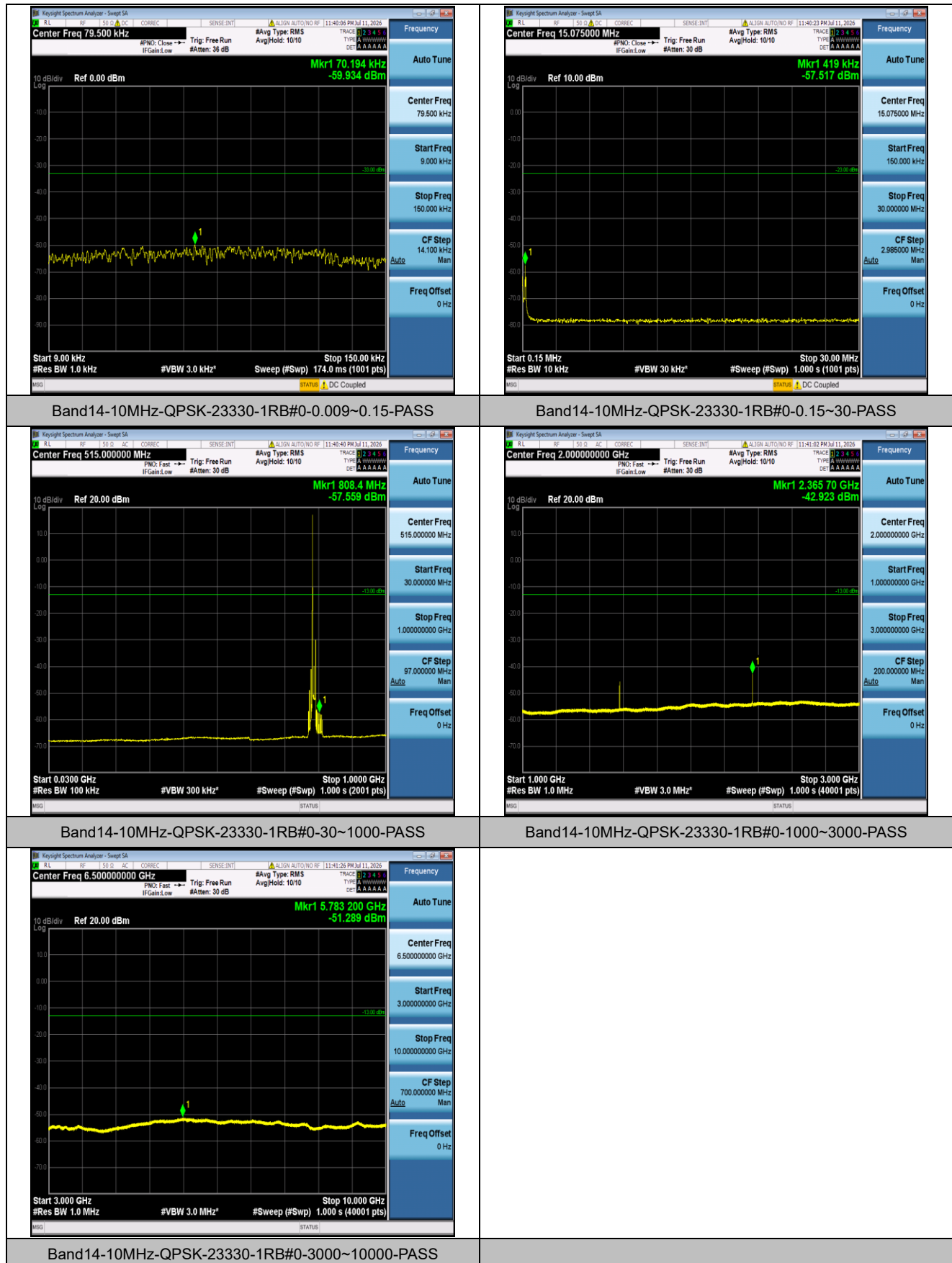




Band14-10MHz-QPSK-23330-50RB#0-PASS

Conducted Spurious Emission

Test Graphs



Frequency Stability

Test Result

Voltage									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band14	10MHz	QPSK	23330	50RB#0	VN	NT	0.20	0.000252	PASS
Band14	10MHz	QPSK	23330	50RB#0	VL	NT	0.30	0.000378	PASS
Band14	10MHz	QPSK	23330	50RB#0	VH	NT	2.20	0.002774	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band14	10MHz	QPSK	23330	50RB#0	NV	-30	1.10	0.001387	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	-20	0.60	0.000757	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	-10	2.00	0.002522	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	0	1.80	0.002270	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	10	1.40	0.001765	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	20	2.40	0.003026	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	30	2.00	0.002522	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	40	1.60	0.002018	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	50	0.80	0.001009	PASS

~The End~