

Appendix-A 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	23.32	20.67	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#12	23.17	20.52	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#24	23.23	20.58	34.77	PASS
Band14	5MHz	QPSK	23305	25RB#0	22.17	19.52	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#0	22.35	19.7	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#12	22.24	19.59	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#24	22.54	19.89	34.77	PASS
Band14	5MHz	QPSK	23330	25RB#0	21.19	18.54	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#0	21.29	18.64	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#12	21.27	18.62	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#24	21.44	18.79	34.77	PASS
Band14	5MHz	QPSK	23355	25RB#0	20.22	17.57	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#0	23.12	20.47	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#12	23.15	20.5	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#24	22.98	20.33	34.77	PASS
Band14	5MHz	16QAM	23305	25RB#0	22.12	19.47	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#0	22.15	19.5	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#12	22.44	19.79	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#24	22.47	19.82	34.77	PASS
Band14	5MHz	16QAM	23330	25RB#0	21.11	18.46	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#0	21.34	18.69	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#12	21.14	18.49	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#24	21.03	18.38	34.77	PASS
Band14	5MHz	16QAM	23355	25RB#0	20.09	17.44	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#0	23.06	20.41	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#12	23.09	20.44	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#24	23.1	20.45	34.77	PASS
Band14	5MHz	64QAM	23305	25RB#0	22.11	19.46	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#0	22.3	19.65	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#12	22.41	19.76	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#24	22.3	19.65	34.77	PASS
Band14	5MHz	64QAM	23330	25RB#0	21.1	18.45	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#0	21.14	18.49	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#12	21.22	18.57	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#24	21.45	18.8	34.77	PASS
Band14	5MHz	64QAM	23355	25RB#0	20.08	17.43	34.77	PASS

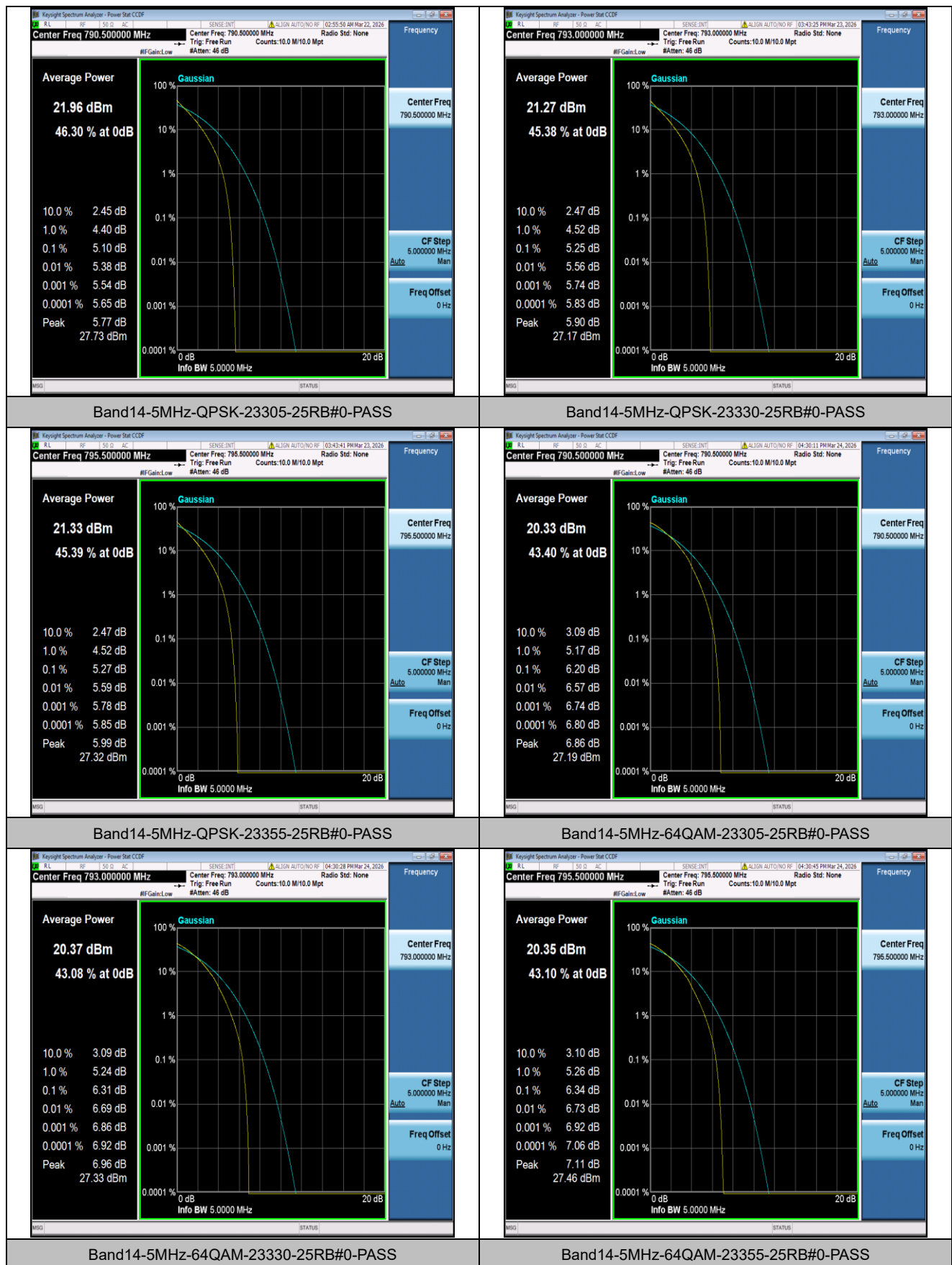
Band14	10MHz	QPSK	23330	1RB#0	23.13	20.48	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#24	23.11	20.46	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#49	23.22	20.57	34.77	PASS
Band14	10MHz	QPSK	23330	50RB#0	22.1	19.45	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#0	22.4	19.75	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#24	22.37	19.72	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#49	22.26	19.61	34.77	PASS
Band14	10MHz	16QAM	23330	50RB#0	21.11	18.46	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#0	21.17	18.52	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#24	21.31	18.66	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#49	21.15	18.5	34.77	PASS
Band14	10MHz	64QAM	23330	50RB#0	20.1	17.45	34.77	PASS

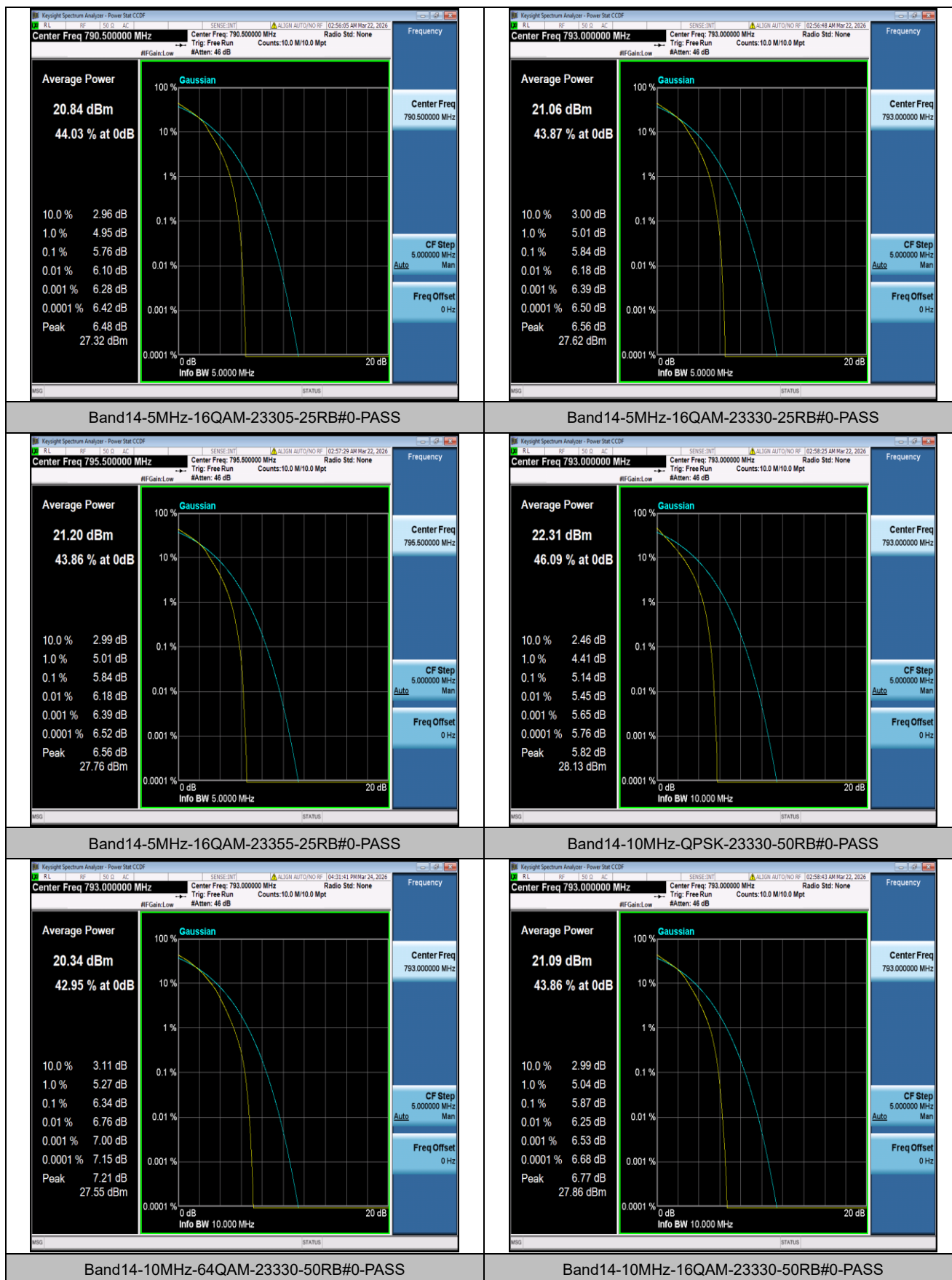
Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dB)	Limit (dB)	Verdict
Band14	5MHz	QPSK	23305	25RB#0	5.10	13	PASS
Band14	5MHz	QPSK	23330	25RB#0	5.25	13	PASS
Band14	5MHz	QPSK	23355	25RB#0	5.27	13	PASS
Band14	5MHz	64QAM	23305	25RB#0	6.20	13	PASS
Band14	5MHz	64QAM	23330	25RB#0	6.31	13	PASS
Band14	5MHz	64QAM	23355	25RB#0	6.34	13	PASS
Band14	5MHz	16QAM	23305	25RB#0	5.76	13	PASS
Band14	5MHz	16QAM	23330	25RB#0	5.84	13	PASS
Band14	5MHz	16QAM	23355	25RB#0	5.84	13	PASS
Band14	10MHz	QPSK	23330	50RB#0	5.14	13	PASS
Band14	10MHz	64QAM	23330	50RB#0	6.34	13	PASS
Band14	10MHz	16QAM	23330	50RB#0	5.87	13	PASS

Test Graphs



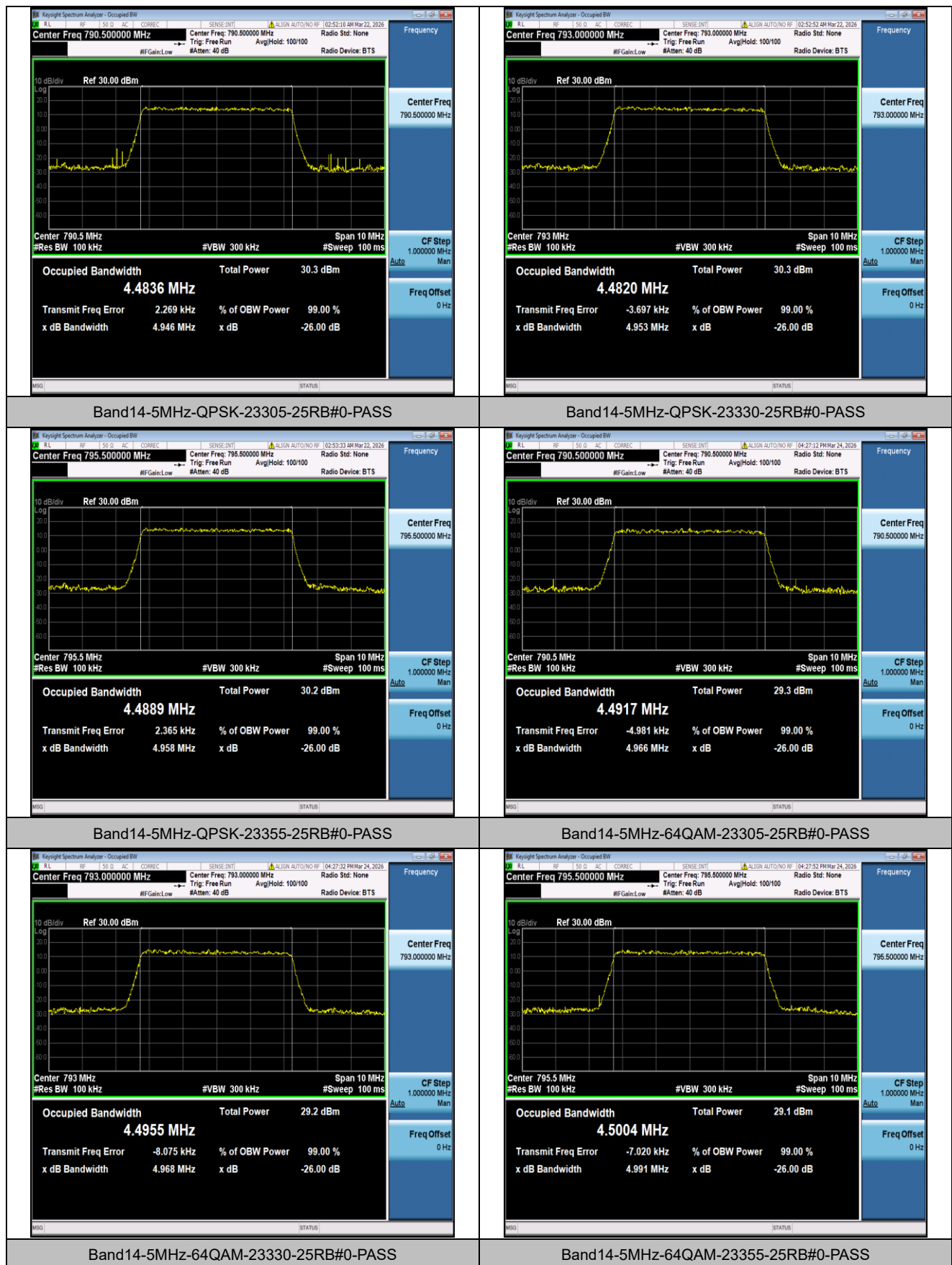


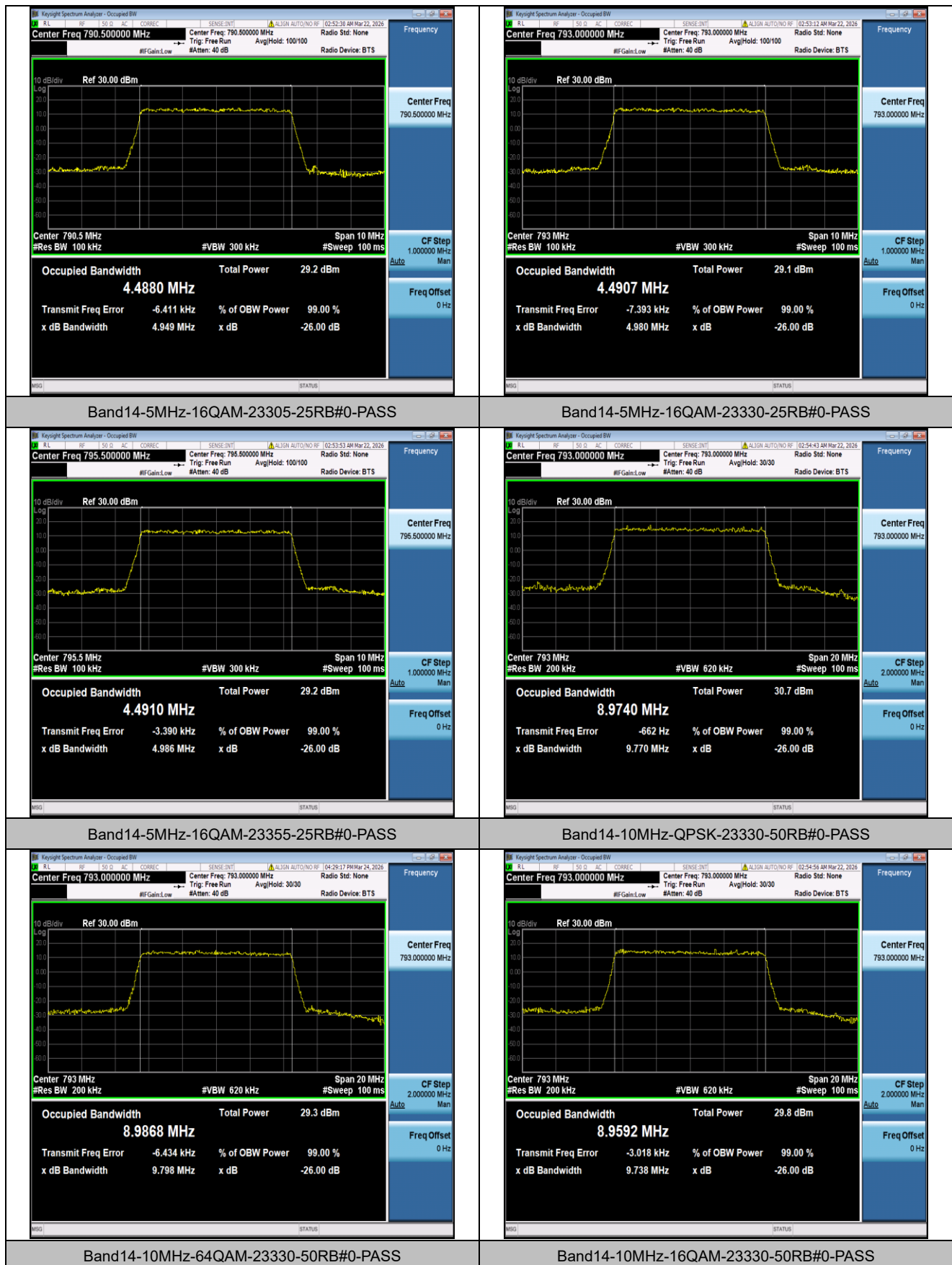
26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	OBW (MHz)	26dB EBW (MHz)	Verdict
Band14	5MHz	QPSK	23305	25RB#0	4.4836	4.946	PASS
Band14	5MHz	QPSK	23330	25RB#0	4.4820	4.953	PASS
Band14	5MHz	QPSK	23355	25RB#0	4.4889	4.958	PASS
Band14	5MHz	64QAM	23305	25RB#0	4.4917	4.966	PASS
Band14	5MHz	64QAM	23330	25RB#0	4.4955	4.968	PASS
Band14	5MHz	64QAM	23355	25RB#0	4.5004	4.991	PASS
Band14	5MHz	16QAM	23305	25RB#0	4.4880	4.949	PASS
Band14	5MHz	16QAM	23330	25RB#0	4.4907	4.980	PASS
Band14	5MHz	16QAM	23355	25RB#0	4.4910	4.986	PASS
Band14	10MHz	QPSK	23330	50RB#0	8.9740	9.770	PASS
Band14	10MHz	64QAM	23330	50RB#0	8.9868	9.798	PASS
Band14	10MHz	16QAM	23330	50RB#0	8.9592	9.738	PASS

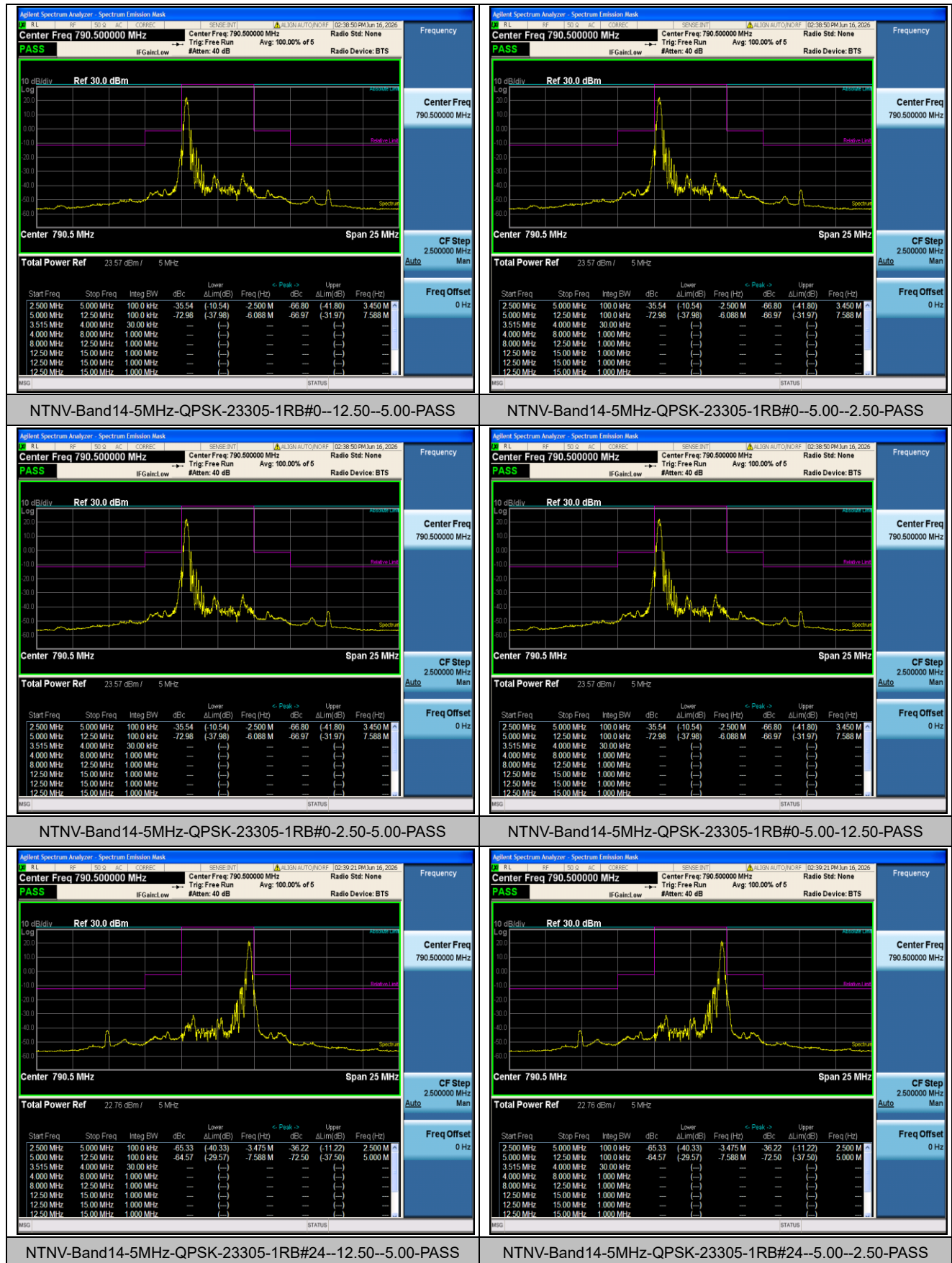
Test Graphs

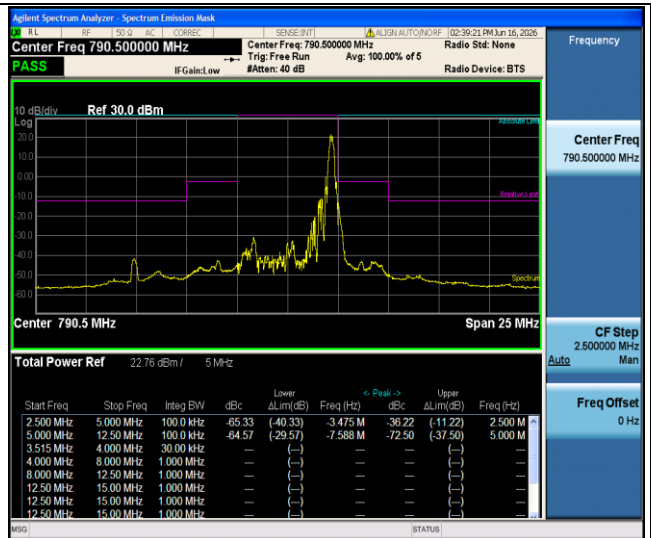




Spectrum_emission_mask

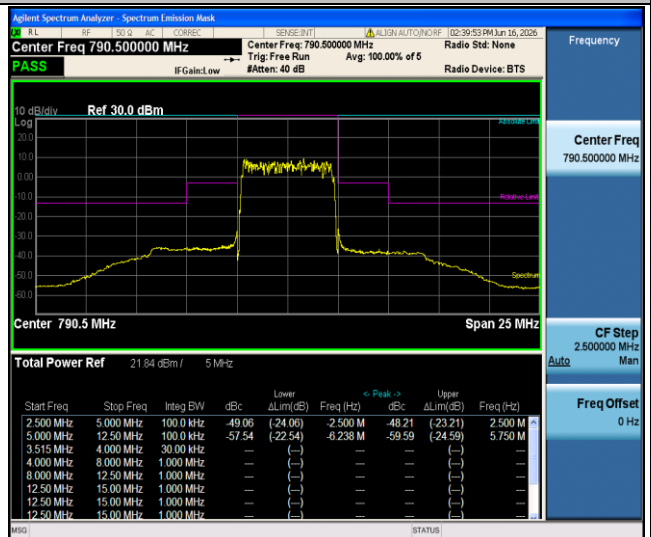
Test Graphs





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

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



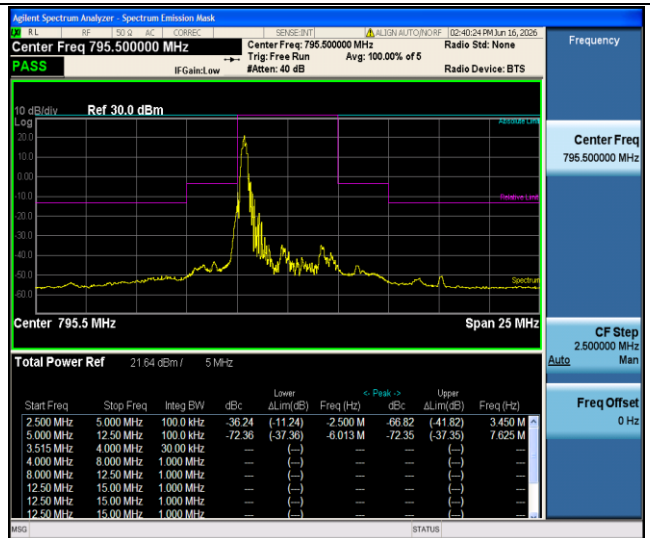
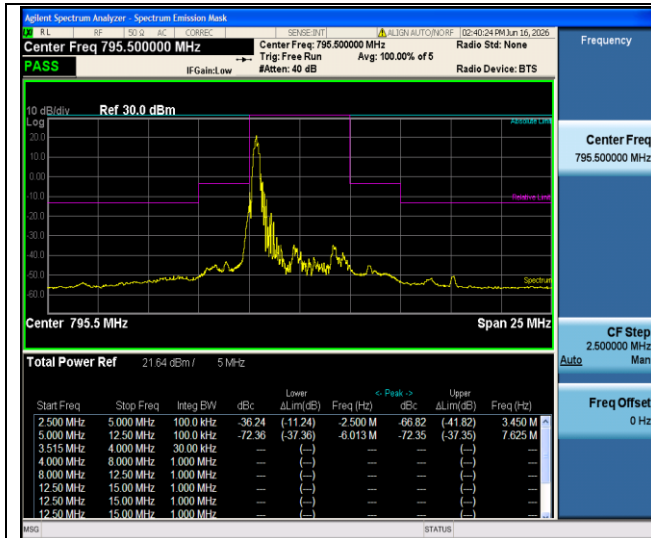
NTNV-Band14-5MHz-QPSK-23305-25RB#0--12.50--5.00-PASS

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



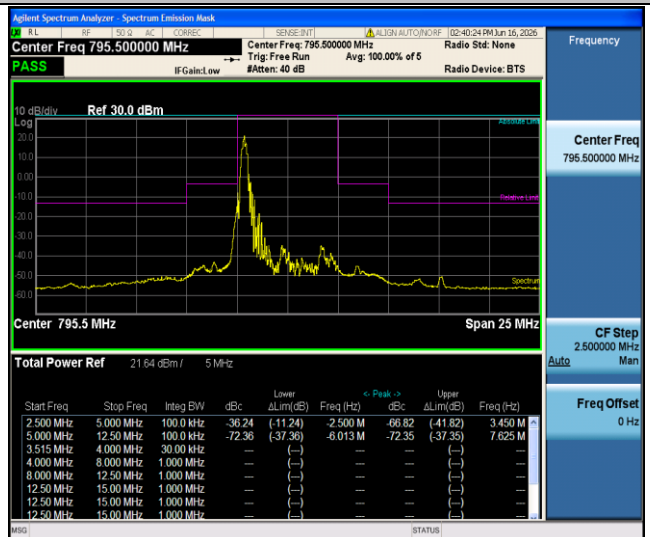
NTNV-Band14-5MHz-QPSK-23305-25RB#0--2.50-2.50-PASS

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



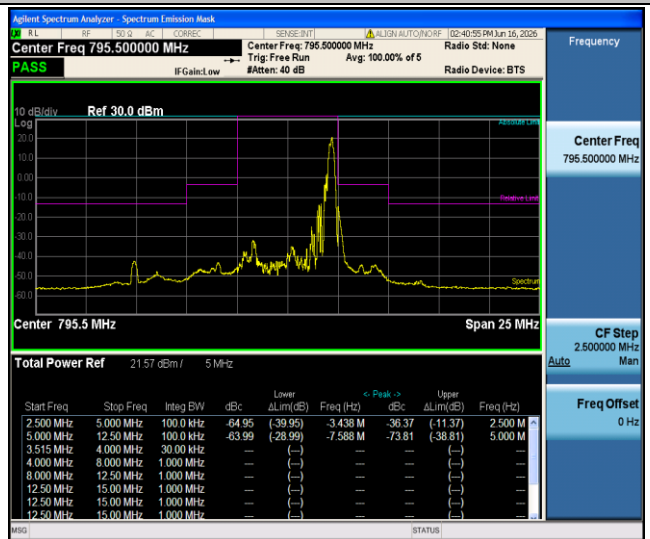
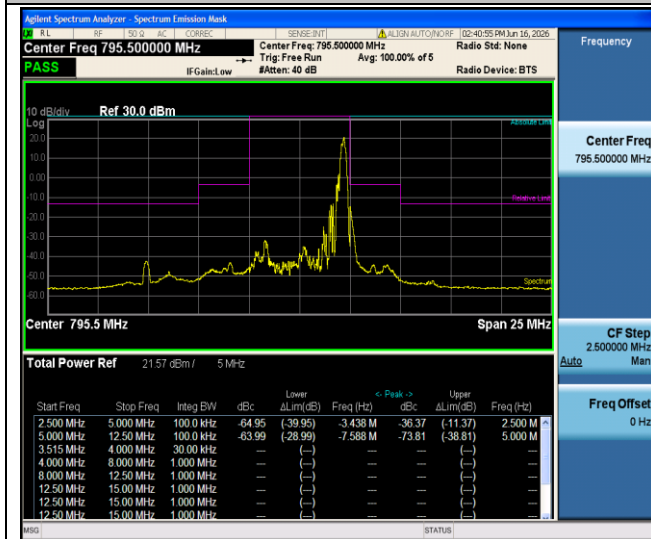
NTNV-Band14-5MHz-QPSK-23355-1RB#0--12.50-5.00-PASS

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



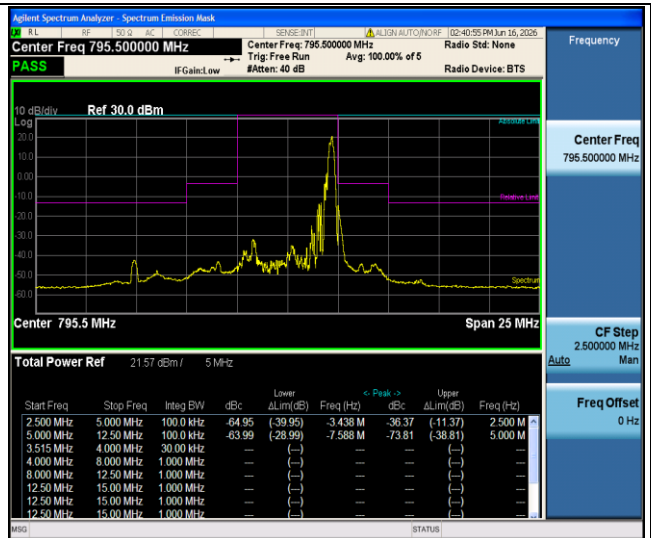
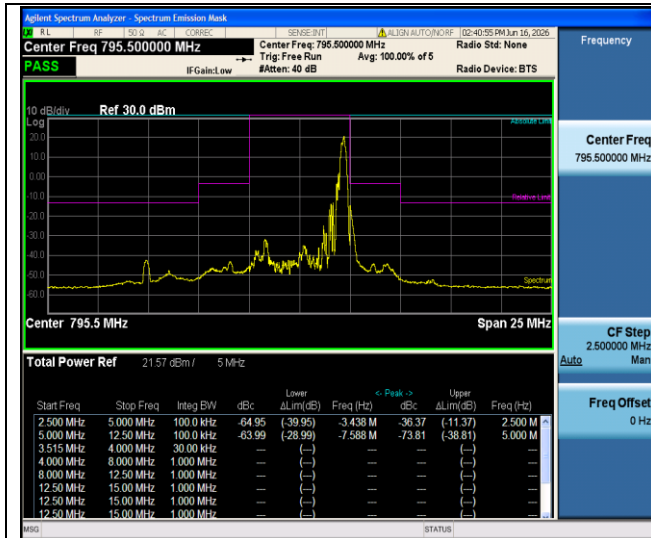
NTNV-Band14-5MHz-QPSK-23355-1RB#0-2.50-5.00-PASS

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



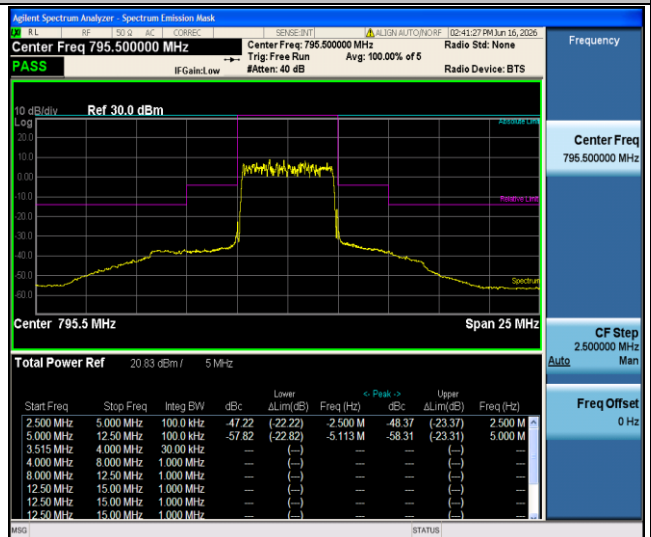
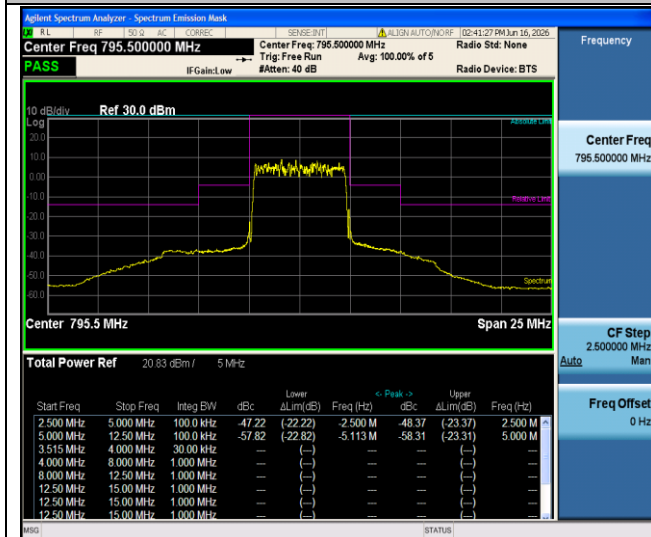
NTNV-Band14-5MHz-QPSK-23355-1RB#24-12.50-5.00-PASS

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



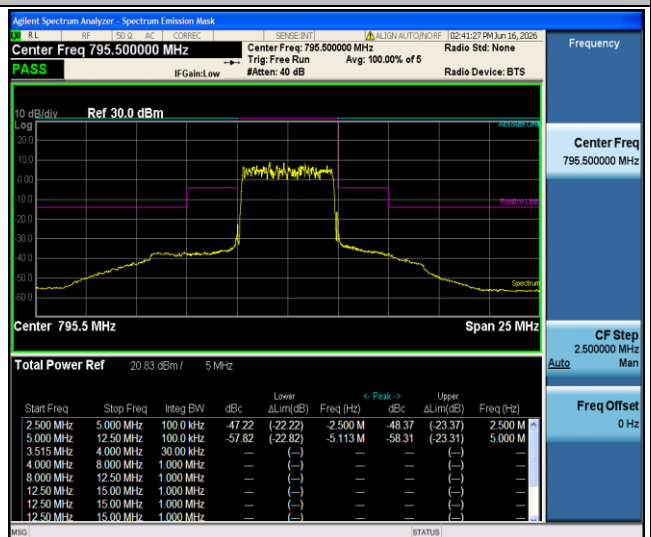
NTNV-Band14-5MHz-QPSK-23355-1RB#24--2.50-2.50-PASS

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



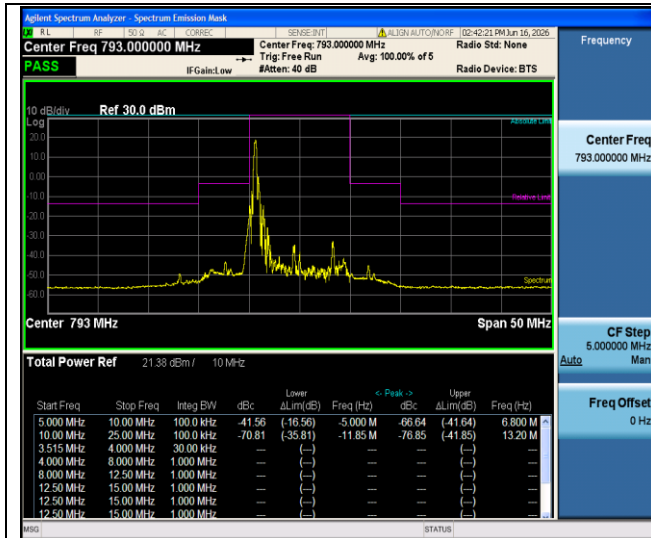
NTNV-Band14-5MHz-QPSK-23355-25RB#0--12.50--5.00-PASS

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

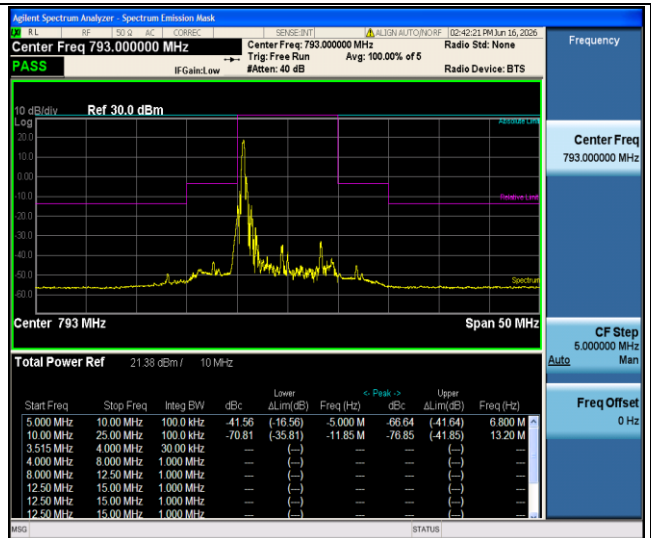


NTNV-Band14-5MHz-QPSK-23355-25RB#0--2.50-2.50-PASS

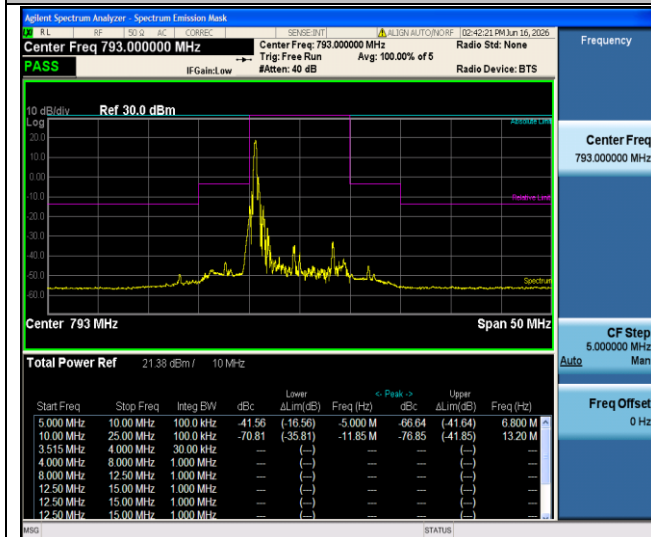
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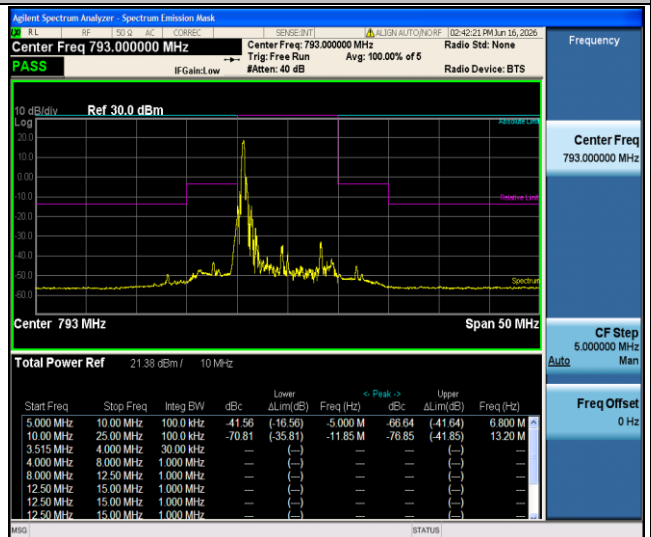
NTNV-Band14-10MHz-QPSK-23330-1RB#0--25.00--10.00-PASS



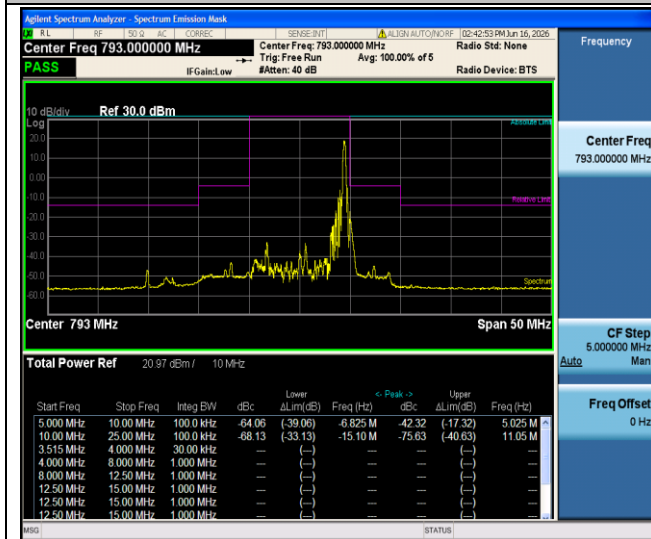
NTNV-Band14-10MHz-QPSK-23330-1RB#0--10.00--5.00-PASS



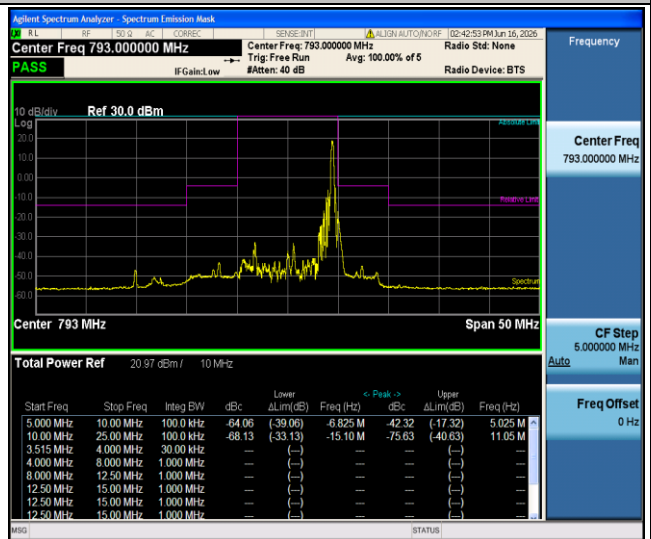
NTNV-Band14-10MHz-QPSK-23330-1RB#0-5.00-10.00-PASS



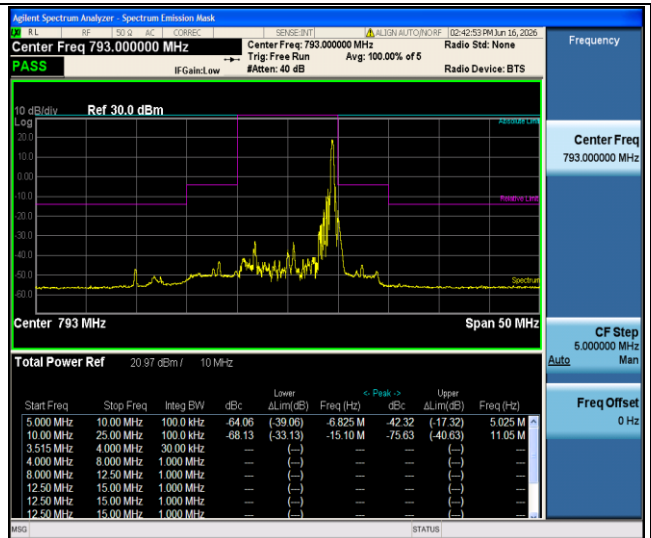
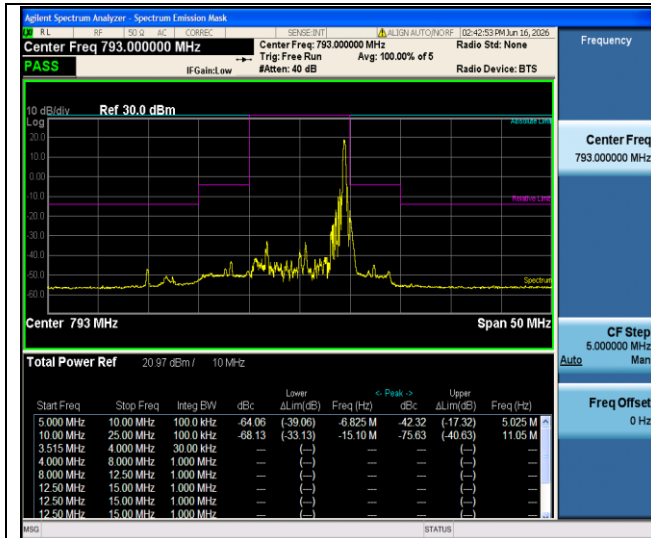
NTNV-Band14-10MHz-QPSK-23330-1RB#0-10.00-25.00-PASS



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

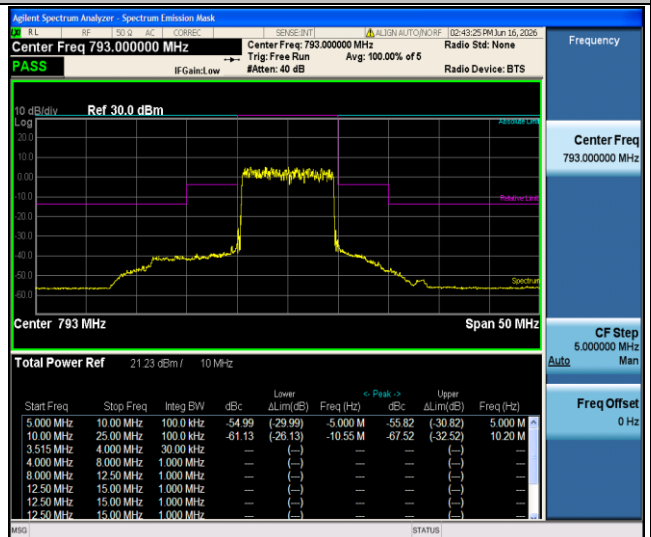
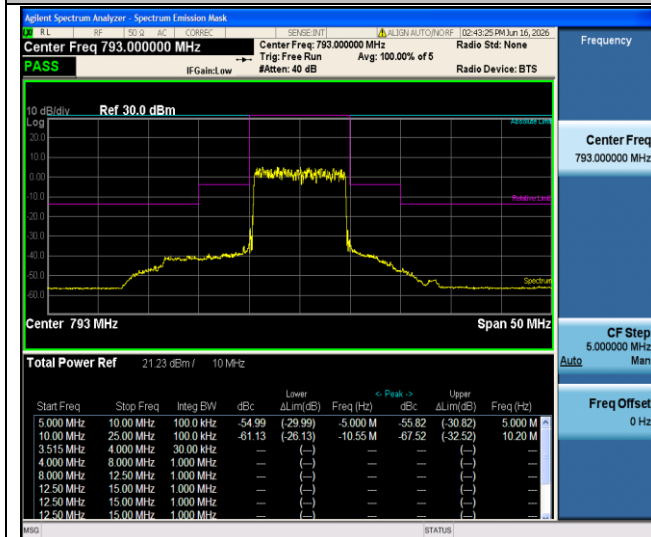


NTNV-Band14-10MHz-QPSK-23330-1RB#49--10.00--5.00-PASS



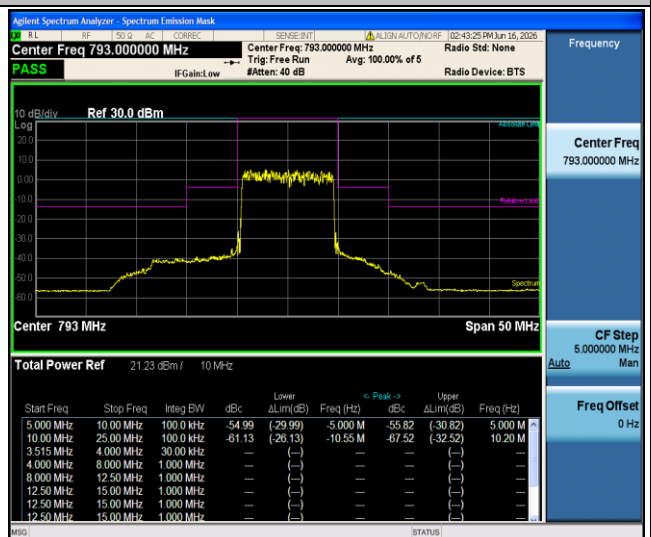
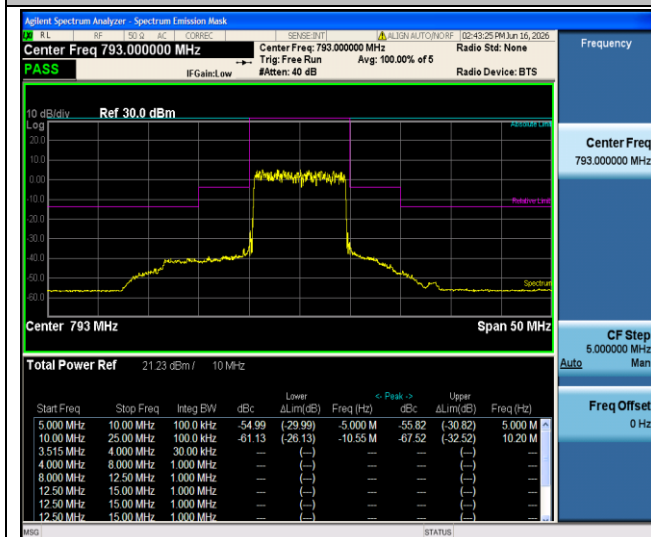
NTNV-Band14-10MHz-QPSK-23330-1RB#49-5.00-10.00-PASS

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

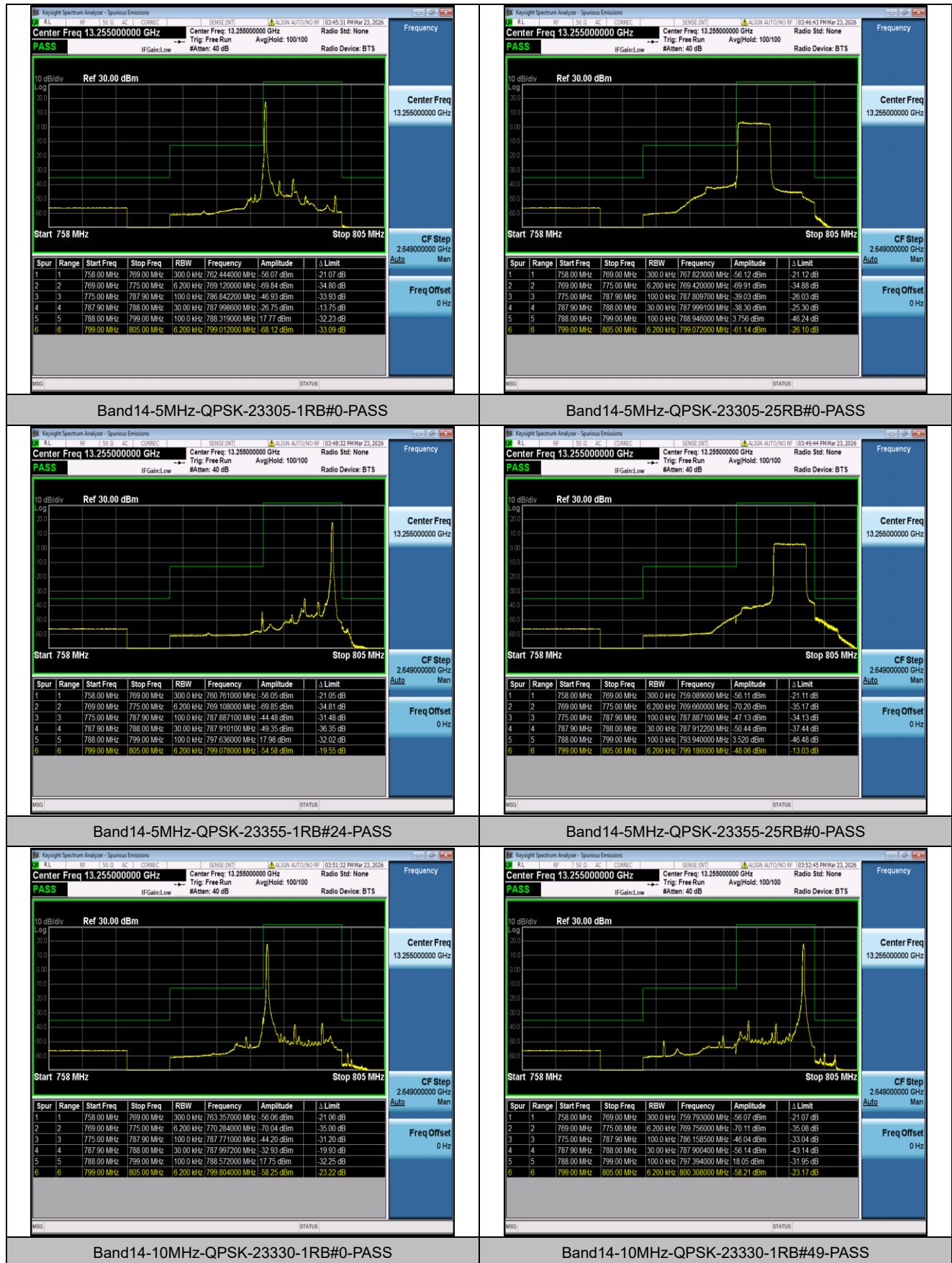


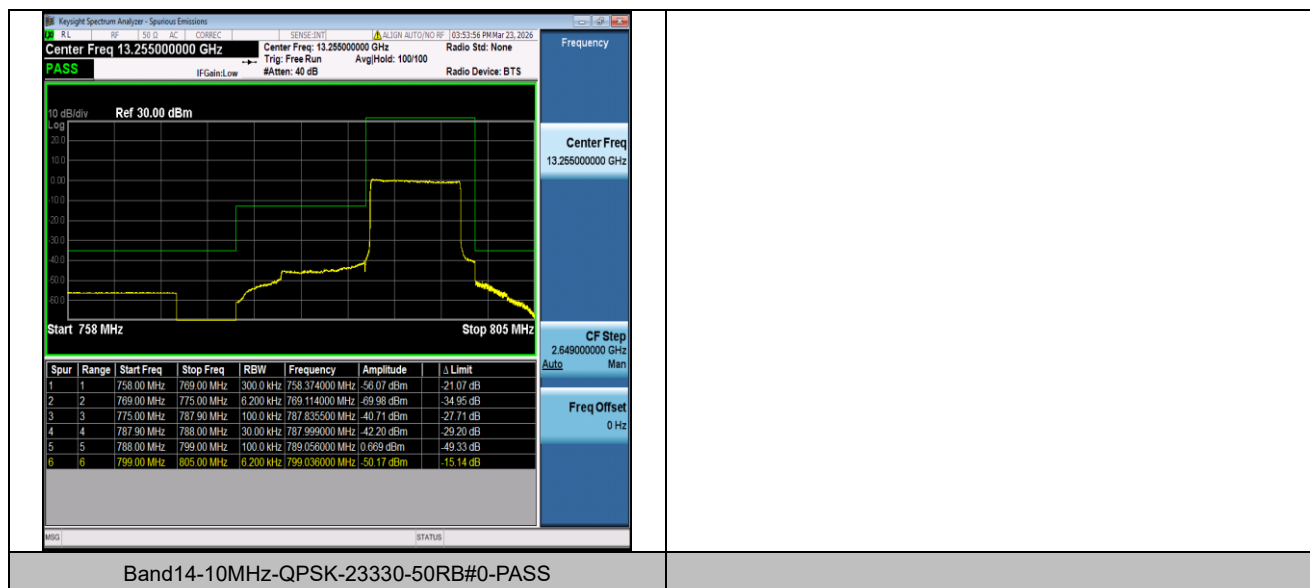
NTNV-Band14-10MHz-QPSK-23330-50RB#0--5.00-5.00-PASS

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

Band Edge

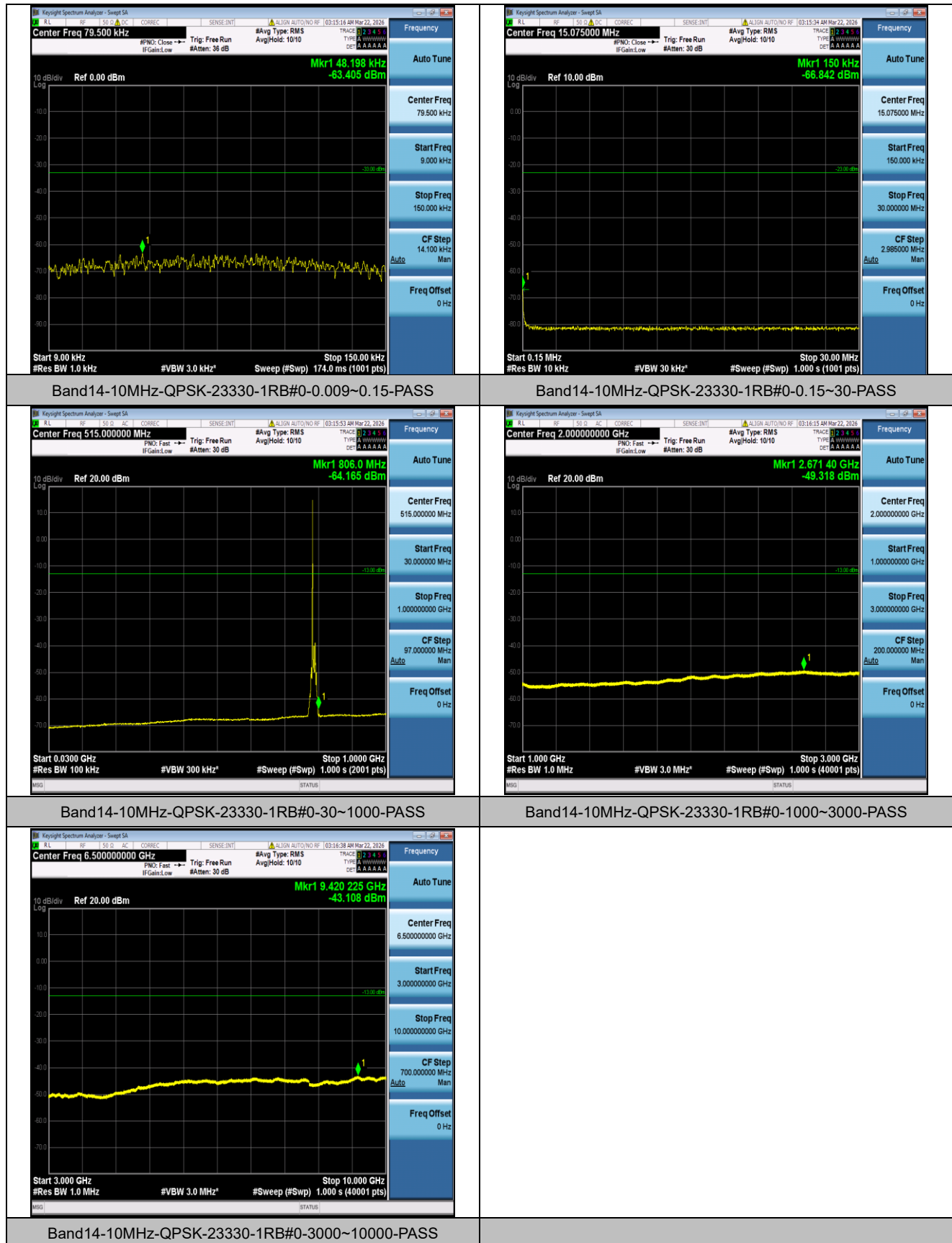
Test Graphs





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	-3.30	-0.004161	PASS
Band14	10MHz	QPSK	23330	50RB#0	VL	NT	5.90	0.007440	PASS
Band14	10MHz	QPSK	23330	50RB#0	VH	NT	4.30	0.005422	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	2.10	0.002648	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	-20	0.50	0.000631	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	-10	4.70	0.005927	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	0	-2.10	-0.002648	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	10	-3.10	-0.003909	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	20	-0.30	-0.000378	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	30	-4.00	-0.005044	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	40	4.50	0.005675	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	50	0.60	0.000757	PASS

~The End~