

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	23.49	20.84	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#12	23.49	20.84	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#24	23.58	20.93	34.77	PASS
Band14	5MHz	QPSK	23305	25RB#0	22.95	20.30	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#0	22.42	19.77	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#12	22.50	19.85	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#24	22.63	19.98	34.77	PASS
Band14	5MHz	16QAM	23305	25RB#0	21.96	19.31	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#0	21.28	18.63	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#12	21.64	18.99	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#24	21.69	19.04	34.77	PASS
Band14	5MHz	64QAM	23305	25RB#0	20.97	18.32	34.77	PASS
Band14	5MHz	256QAM	23305	1RB#0	18.46	15.81	34.77	PASS
Band14	5MHz	256QAM	23305	1RB#12	18.61	15.96	34.77	PASS
Band14	5MHz	256QAM	23305	1RB#24	19.04	16.39	34.77	PASS
Band14	5MHz	256QAM	23305	25RB#0	18.13	15.48	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#0	23.28	20.63	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#12	23.25	20.60	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#24	23.30	20.65	34.77	PASS
Band14	5MHz	QPSK	23330	25RB#0	22.83	20.18	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#0	22.37	19.72	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#12	22.33	19.68	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#24	22.27	19.62	34.77	PASS
Band14	5MHz	16QAM	23330	25RB#0	21.99	19.34	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#0	21.41	18.76	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#12	21.49	18.84	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#24	21.21	18.56	34.77	PASS
Band14	5MHz	64QAM	23330	25RB#0	21.12	18.47	34.77	PASS
Band14	5MHz	256QAM	23330	1RB#0	18.58	15.93	34.77	PASS
Band14	5MHz	256QAM	23330	1RB#12	18.52	15.87	34.77	PASS
Band14	5MHz	256QAM	23330	1RB#24	18.40	15.75	34.77	PASS
Band14	5MHz	256QAM	23330	25RB#0	18.30	15.65	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#0	23.59	20.94	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#12	23.54	20.89	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#24	23.41	20.76	34.77	PASS
Band14	5MHz	QPSK	23355	25RB#0	22.83	20.18	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#0	22.47	19.82	34.77	PASS

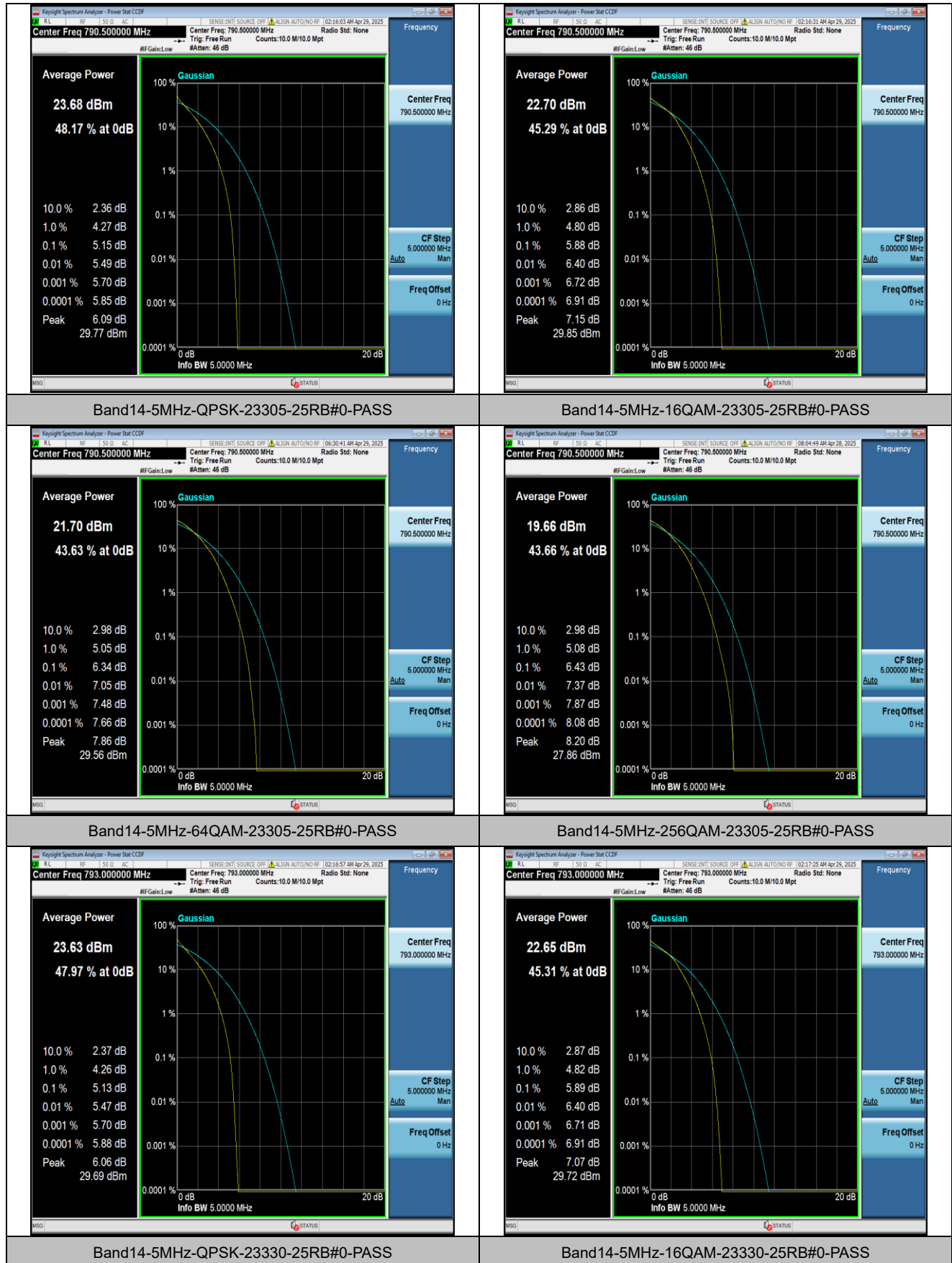
Band14	5MHz	16QAM	23355	1RB#12	22.64	19.99	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#24	22.50	19.85	34.77	PASS
Band14	5MHz	16QAM	23355	25RB#0	21.94	19.29	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#0	21.53	18.88	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#12	21.58	18.93	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#24	21.33	18.68	34.77	PASS
Band14	5MHz	64QAM	23355	25RB#0	21.11	18.46	34.77	PASS
Band14	5MHz	256QAM	23355	1RB#0	18.58	15.93	34.77	PASS
Band14	5MHz	256QAM	23355	1RB#12	18.77	16.12	34.77	PASS
Band14	5MHz	256QAM	23355	1RB#24	18.42	15.77	34.77	PASS
Band14	5MHz	256QAM	23355	25RB#0	18.31	15.66	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#0	23.50	20.85	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#24	23.58	20.93	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#49	23.13	20.48	34.77	PASS
Band14	10MHz	QPSK	23330	50RB#0	22.94	20.29	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#0	22.54	19.89	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#24	22.77	20.12	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#49	21.96	19.31	34.77	PASS
Band14	10MHz	16QAM	23330	50RB#0	22.07	19.42	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#0	21.44	18.79	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#24	21.80	19.15	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#49	20.96	18.31	34.77	PASS
Band14	10MHz	64QAM	23330	50RB#0	21.21	18.56	34.77	PASS
Band14	10MHz	256QAM	23330	1RB#0	18.74	16.09	34.77	PASS
Band14	10MHz	256QAM	23330	1RB#24	19.15	16.50	34.77	PASS
Band14	10MHz	256QAM	23330	1RB#49	18.30	15.65	34.77	PASS
Band14	10MHz	256QAM	23330	50RB#0	18.44	15.79	34.77	PASS

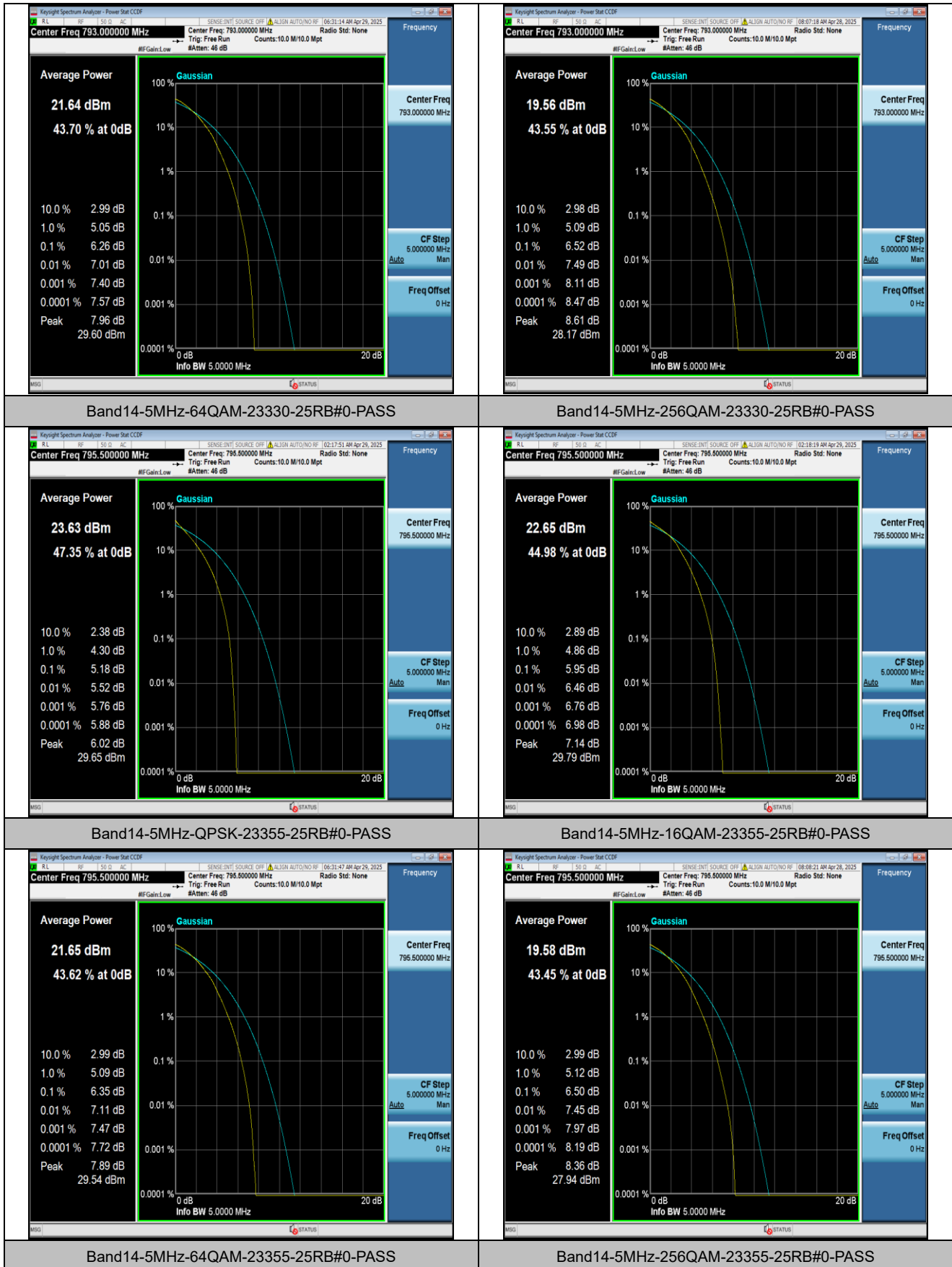
Peak-to-Average Ratio(CCDF)

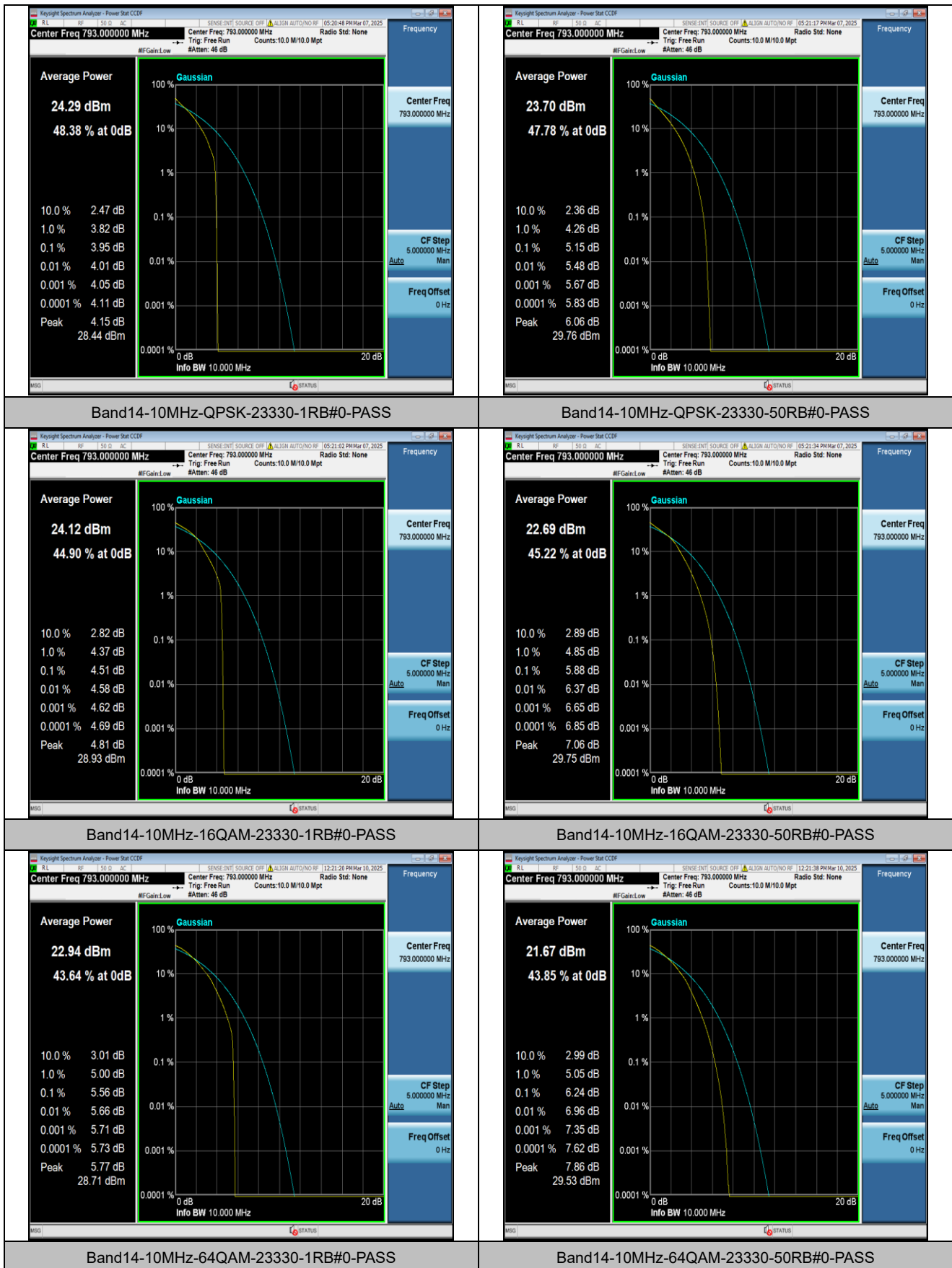
Test Result

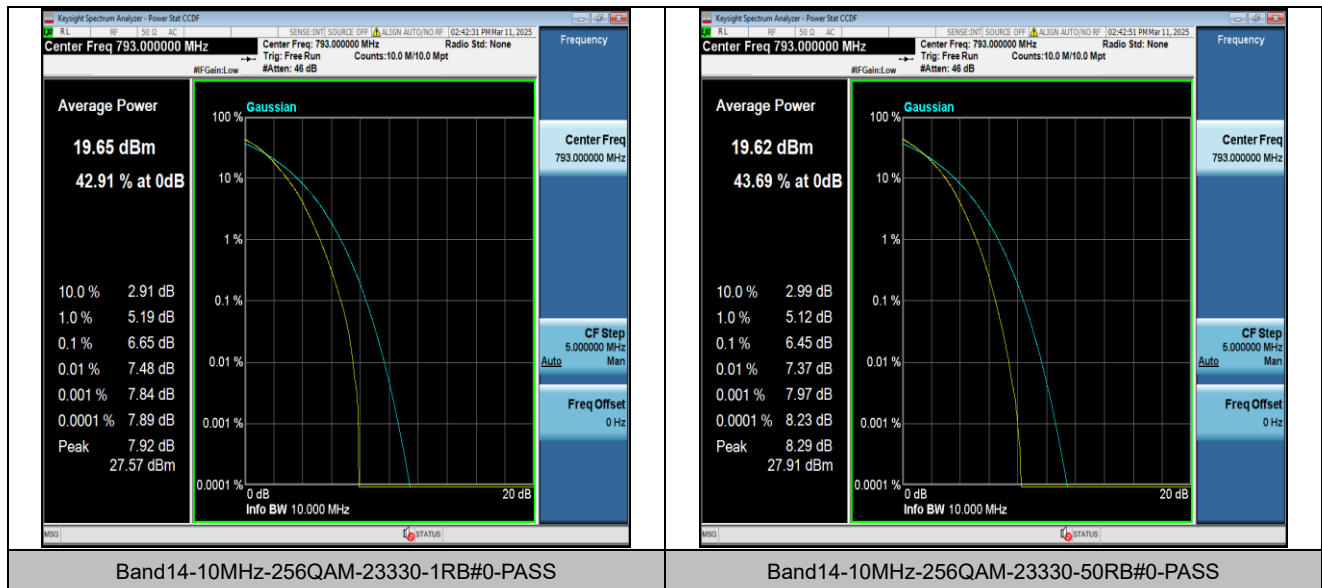
Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dB)	Limit (dB)	Verdict
Band14	5MHz	QPSK	23305	25RB#0	5.15	13	PASS
Band14	5MHz	16QAM	23305	25RB#0	5.88	13	PASS
Band14	5MHz	64QAM	23305	25RB#0	6.34	13	PASS
Band14	5MHz	256QAM	23305	25RB#0	6.43	13	PASS
Band14	5MHz	QPSK	23330	25RB#0	5.13	13	PASS
Band14	5MHz	16QAM	23330	25RB#0	5.89	13	PASS
Band14	5MHz	64QAM	23330	25RB#0	6.26	13	PASS
Band14	5MHz	256QAM	23330	25RB#0	6.52	13	PASS
Band14	5MHz	QPSK	23355	25RB#0	5.18	13	PASS
Band14	5MHz	16QAM	23355	25RB#0	5.95	13	PASS
Band14	5MHz	64QAM	23355	25RB#0	6.35	13	PASS
Band14	5MHz	256QAM	23355	25RB#0	6.50	13	PASS
Band14	10MHz	QPSK	23330	1RB#0	3.95	13	PASS
Band14	10MHz	QPSK	23330	50RB#0	5.15	13	PASS
Band14	10MHz	16QAM	23330	1RB#0	4.51	13	PASS
Band14	10MHz	16QAM	23330	50RB#0	5.88	13	PASS
Band14	10MHz	64QAM	23330	1RB#0	5.56	13	PASS
Band14	10MHz	64QAM	23330	50RB#0	6.24	13	PASS
Band14	10MHz	256QAM	23330	1RB#0	6.65	13	PASS
Band14	10MHz	256QAM	23330	50RB#0	6.45	13	PASS

Test Graphs







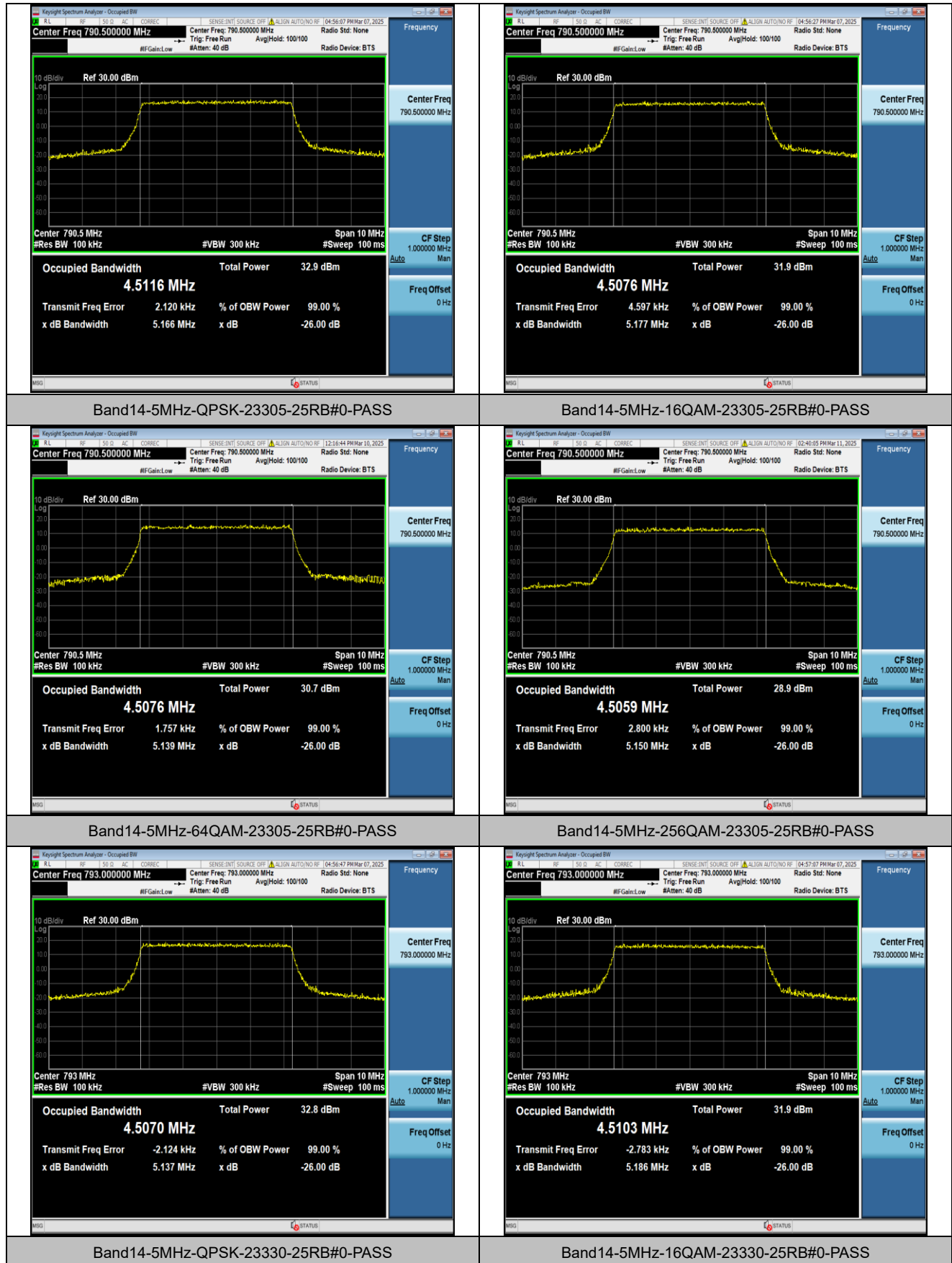


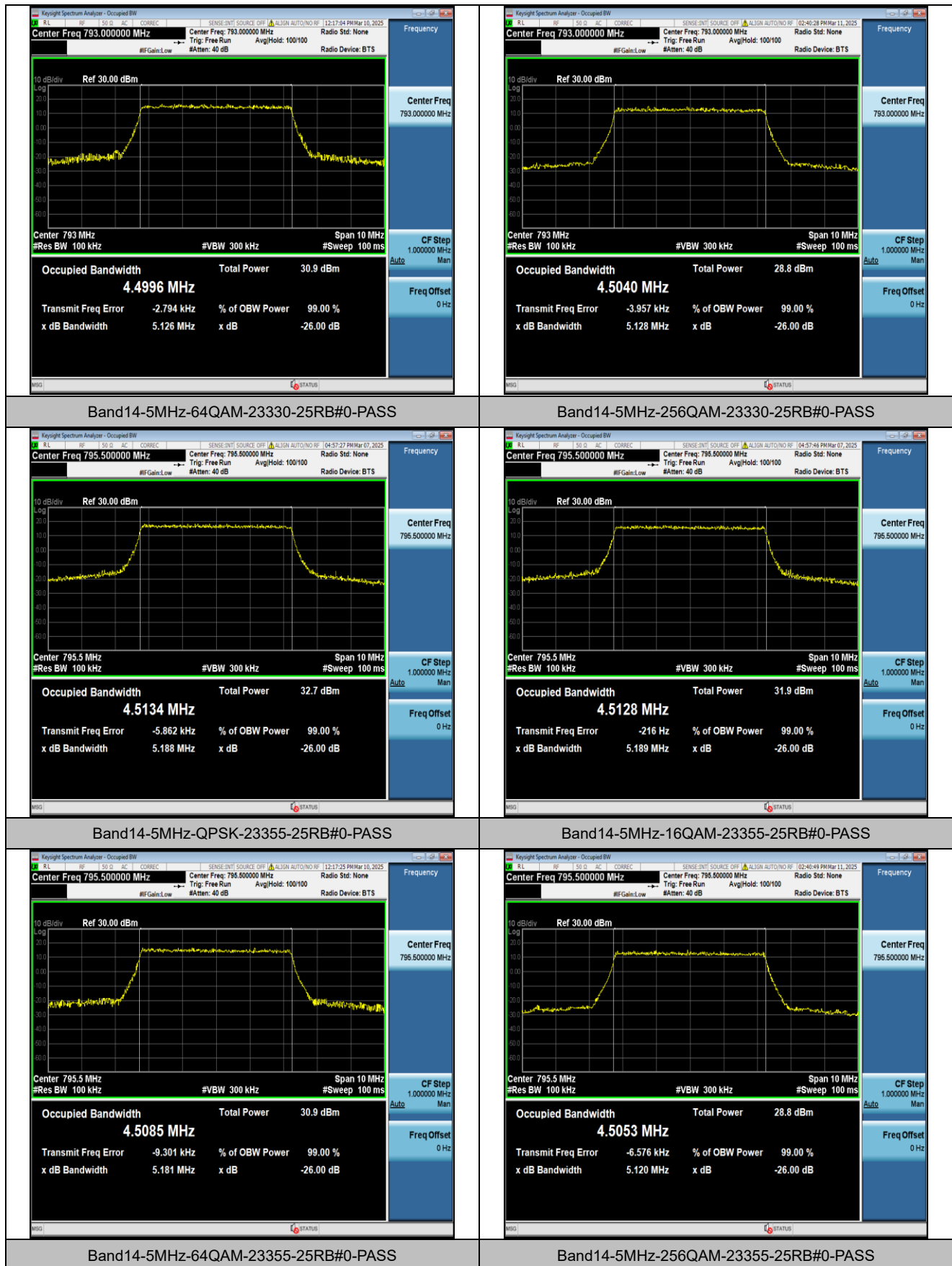
26dB Bandwidth and Occupied Bandwidth

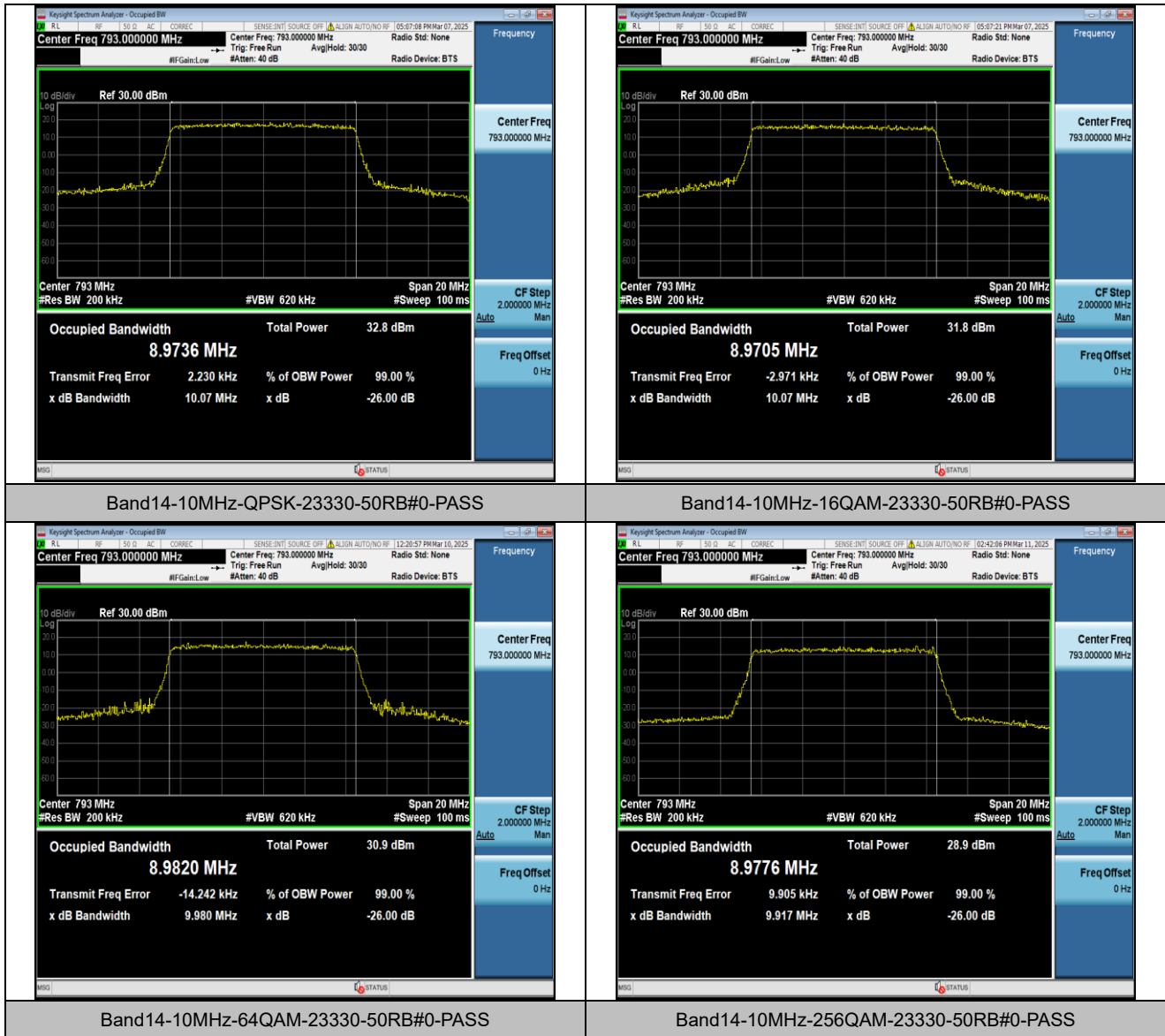
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	OBW (MHz)	26dB EBW (MHz)	Verdict
Band14	5MHz	QPSK	23305	25RB#0	4.5116	5.166	PASS
Band14	5MHz	16QAM	23305	25RB#0	4.5076	5.177	PASS
Band14	5MHz	64QAM	23305	25RB#0	4.5076	5.139	PASS
Band14	5MHz	256QAM	23305	25RB#0	4.5059	5.150	PASS
Band14	5MHz	QPSK	23330	25RB#0	4.5070	5.137	PASS
Band14	5MHz	16QAM	23330	25RB#0	4.5103	5.186	PASS
Band14	5MHz	64QAM	23330	25RB#0	4.4996	5.126	PASS
Band14	5MHz	256QAM	23330	25RB#0	4.5040	5.128	PASS
Band14	5MHz	QPSK	23355	25RB#0	4.5134	5.188	PASS
Band14	5MHz	16QAM	23355	25RB#0	4.5128	5.189	PASS
Band14	5MHz	64QAM	23355	25RB#0	4.5085	5.181	PASS
Band14	5MHz	256QAM	23355	25RB#0	4.5053	5.120	PASS
Band14	10MHz	QPSK	23330	50RB#0	8.9736	10.07	PASS
Band14	10MHz	16QAM	23330	50RB#0	8.9705	10.07	PASS
Band14	10MHz	64QAM	23330	50RB#0	8.9820	9.980	PASS
Band14	10MHz	256QAM	23330	50RB#0	8.9776	9.917	PASS

Test Graphs

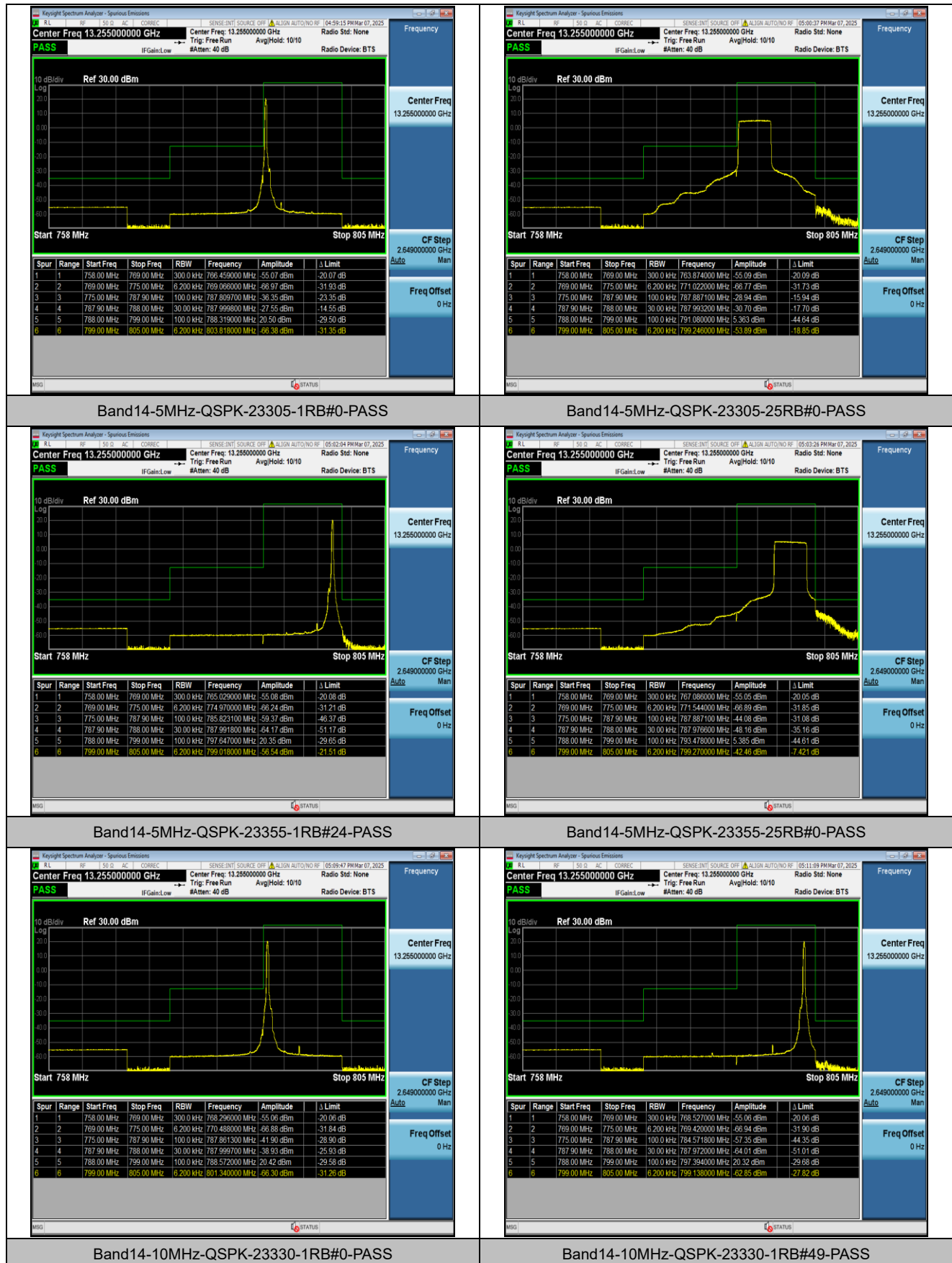






Band Edge

Test Graphs

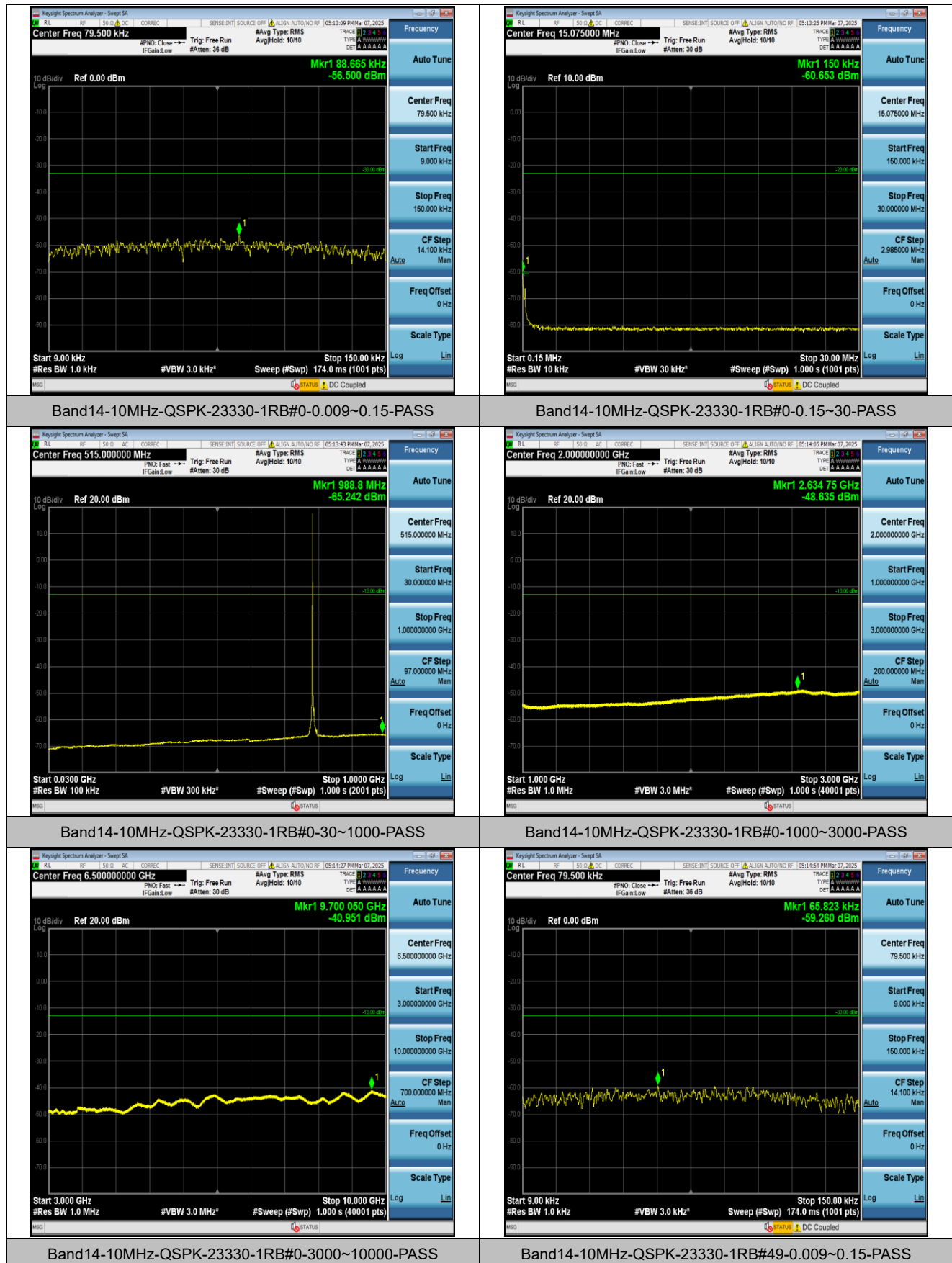


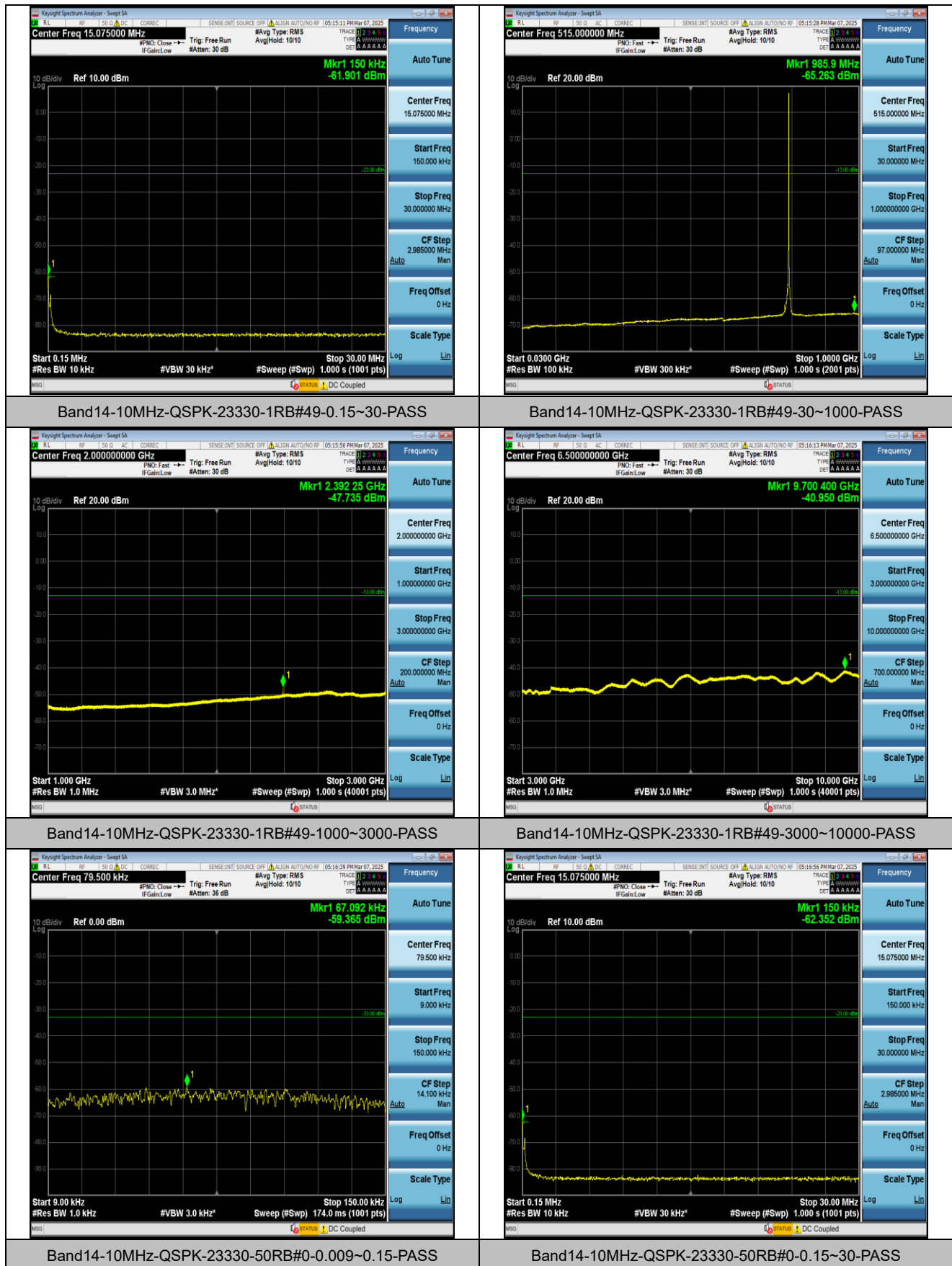


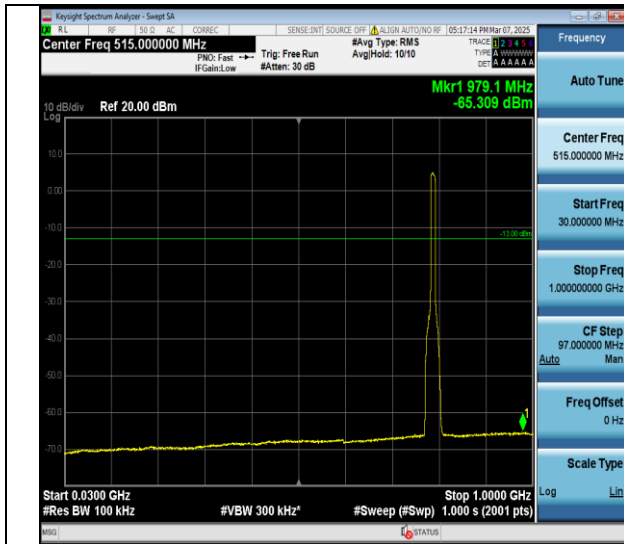
Band14-10MHz-QSPK-23330-50RB#0-PASS

Conducted Spurious Emission

Test Graphs



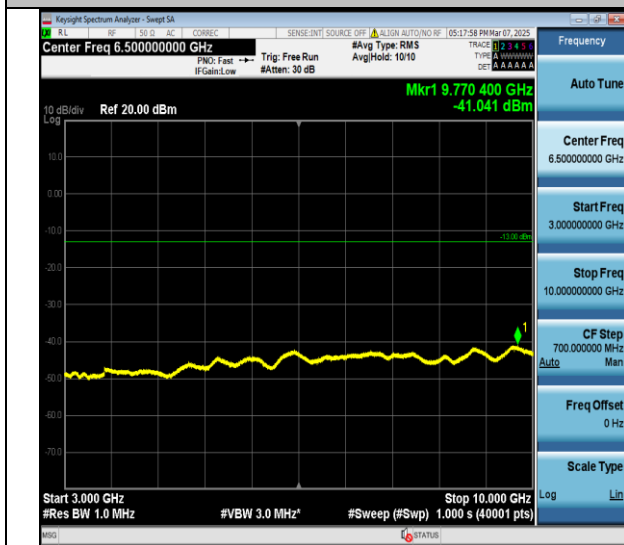




Band14-10MHz-QSPK-23330-50RB#0-30~1000-PASS



Band14-10MHz-QSPK-23330-50RB#0-1000~3000-PASS



Band14-10MHz-QSPK-23330-50RB#0-3000~10000-PASS

Frequency Stability

Test Result

Voltage									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band14	10MHz	QSPK	23330	50RB#0	VN	NT	-1.60	-0.002018	PASS
Band14	10MHz	QSPK	23330	50RB#0	VL	NT	-3.00	-0.003783	PASS
Band14	10MHz	QSPK	23330	50RB#0	VH	NT	-2.10	-0.002648	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band14	10MHz	QSPK	23330	50RB#0	NV	-30	-2.70	-0.003405	PASS
Band14	10MHz	QSPK	23330	50RB#0	NV	-20	-1.30	-0.001639	PASS
Band14	10MHz	QSPK	23330	50RB#0	NV	-10	-2.10	-0.002648	PASS
Band14	10MHz	QSPK	23330	50RB#0	NV	0	-0.90	-0.001135	PASS
Band14	10MHz	QSPK	23330	50RB#0	NV	10	-0.70	-0.000883	PASS
Band14	10MHz	QSPK	23330	50RB#0	NV	20	-2.70	-0.003405	PASS
Band14	10MHz	QSPK	23330	50RB#0	NV	30	-0.10	-0.000126	PASS
Band14	10MHz	QSPK	23330	50RB#0	NV	40	-1.50	-0.001892	PASS
Band14	10MHz	QSPK	23330	50RB#0	NV	50	0.60	0.000757	PASS

~The End~