

Appendix-A LTE Band 17

Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	23.04	20.39	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#12	23.16	20.51	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#24	23.13	20.48	34.77	PASS
Band17	5MHz	QPSK	23755	25RB#0	22.45	19.8	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#0	22.57	19.92	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#12	22.27	19.62	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#24	22.13	19.48	34.77	PASS
Band17	5MHz	16QAM	23755	25RB#0	21.45	18.8	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#0	21.78	19.13	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#12	21.65	19	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#24	21.69	19.04	34.77	PASS
Band17	5MHz	64QAM	23755	25RB#0	20.53	17.88	34.77	PASS
Band17	5MHz	256QAM	23755	1RB#0	18.37	15.72	34.77	PASS
Band17	5MHz	256QAM	23755	1RB#12	18.65	16	34.77	PASS
Band17	5MHz	256QAM	23755	1RB#24	18.49	15.84	34.77	PASS
Band17	5MHz	256QAM	23755	25RB#0	18.43	15.78	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#0	23.03	20.38	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#12	23.1	20.45	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#24	23.05	20.4	34.77	PASS
Band17	5MHz	QPSK	23790	25RB#0	22.36	19.71	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#0	22.43	19.78	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#12	22.49	19.84	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#24	22.42	19.77	34.77	PASS
Band17	5MHz	16QAM	23790	25RB#0	21.32	18.67	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#0	21.7	19.05	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#12	21.83	19.18	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#24	21.61	18.96	34.77	PASS
Band17	5MHz	64QAM	23790	25RB#0	20.43	17.78	34.77	PASS
Band17	5MHz	256QAM	23790	1RB#0	18.55	15.9	34.77	PASS
Band17	5MHz	256QAM	23790	1RB#12	18.55	15.9	34.77	PASS
Band17	5MHz	256QAM	23790	1RB#24	18.34	15.69	34.77	PASS
Band17	5MHz	256QAM	23790	25RB#0	18.37	15.72	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#0	23.11	20.46	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#12	23.15	20.5	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#24	23.03	20.38	34.77	PASS
Band17	5MHz	QPSK	23825	25RB#0	22.39	19.74	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#0	22.62	19.97	34.77	PASS

Band17	5MHz	16QAM	23825	1RB#12	22.3	19.65	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#24	22.42	19.77	34.77	PASS
Band17	5MHz	16QAM	23825	25RB#0	21.35	18.7	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#0	21.59	18.94	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#12	21.88	19.23	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#24	21.65	19	34.77	PASS
Band17	5MHz	64QAM	23825	25RB#0	20.38	17.73	34.77	PASS
Band17	5MHz	256QAM	23825	1RB#0	18.58	15.93	34.77	PASS
Band17	5MHz	256QAM	23825	1RB#12	18.39	15.74	34.77	PASS
Band17	5MHz	256QAM	23825	1RB#24	18.46	15.81	34.77	PASS
Band17	5MHz	256QAM	23825	25RB#0	18.35	15.7	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#0	23.13	20.48	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#24	23.16	20.51	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#49	23.04	20.39	34.77	PASS
Band17	10MHz	QPSK	23780	50RB#0	22.7	20.05	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#0	22.42	19.77	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#24	22.33	19.68	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#49	22.55	19.9	34.77	PASS
Band17	10MHz	16QAM	23780	50RB#0	21.57	18.92	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#0	21.64	18.99	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#24	21.69	19.04	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#49	21.43	18.78	34.77	PASS
Band17	10MHz	64QAM	23780	50RB#0	20.72	18.07	34.77	PASS
Band17	10MHz	256QAM	23780	1RB#0	18.94	16.29	34.77	PASS
Band17	10MHz	256QAM	23780	1RB#24	18.38	15.73	34.77	PASS
Band17	10MHz	256QAM	23780	1RB#49	18.77	16.12	34.77	PASS
Band17	10MHz	256QAM	23780	50RB#0	18.59	15.94	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#0	23.06	20.41	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#24	23.11	20.46	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#49	23.04	20.39	34.77	PASS
Band17	10MHz	QPSK	23790	50RB#0	22.47	19.82	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#0	22.44	19.79	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#24	22.5	19.85	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#49	22.5	19.85	34.77	PASS
Band17	10MHz	16QAM	23790	50RB#0	21.43	18.78	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#0	21.77	19.12	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#24	21.81	19.16	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#49	21.62	18.97	34.77	PASS
Band17	10MHz	64QAM	23790	50RB#0	20.56	17.91	34.77	PASS
Band17	10MHz	256QAM	23790	1RB#0	18.84	16.19	34.77	PASS
Band17	10MHz	256QAM	23790	1RB#24	18.66	16.01	34.77	PASS
Band17	10MHz	256QAM	23790	1RB#49	18.87	16.22	34.77	PASS
Band17	10MHz	256QAM	23790	50RB#0	18.59	15.94	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#0	23.08	20.43	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#24	23.11	20.46	34.77	PASS

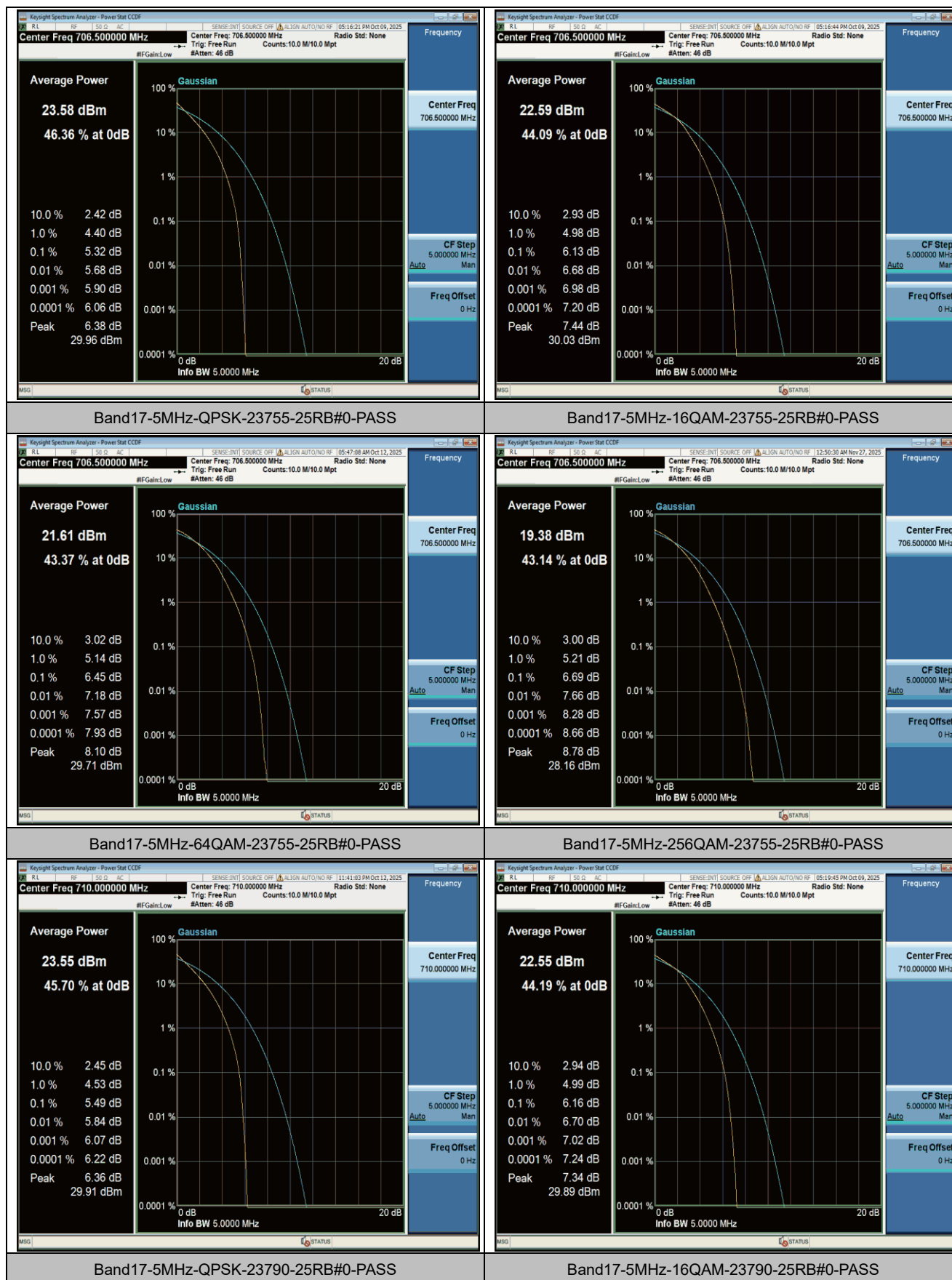
Band17	10MHz	QPSK	23800	1RB#49	22.98	20.33	34.77	PASS
Band17	10MHz	QPSK	23800	50RB#0	22.57	19.92	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#0	22.43	19.78	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#24	22.41	19.76	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#49	22.34	19.69	34.77	PASS
Band17	10MHz	16QAM	23800	50RB#0	21.54	18.89	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#0	21.58	18.93	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#24	21.62	18.97	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#49	21.74	19.09	34.77	PASS
Band17	10MHz	64QAM	23800	50RB#0	20.57	17.92	34.77	PASS
Band17	10MHz	256QAM	23800	1RB#0	18.98	16.33	34.77	PASS
Band17	10MHz	256QAM	23800	1RB#24	18.4	15.75	34.77	PASS
Band17	10MHz	256QAM	23800	1RB#49	18.78	16.13	34.77	PASS
Band17	10MHz	256QAM	23800	50RB#0	18.57	15.92	34.77	PASS

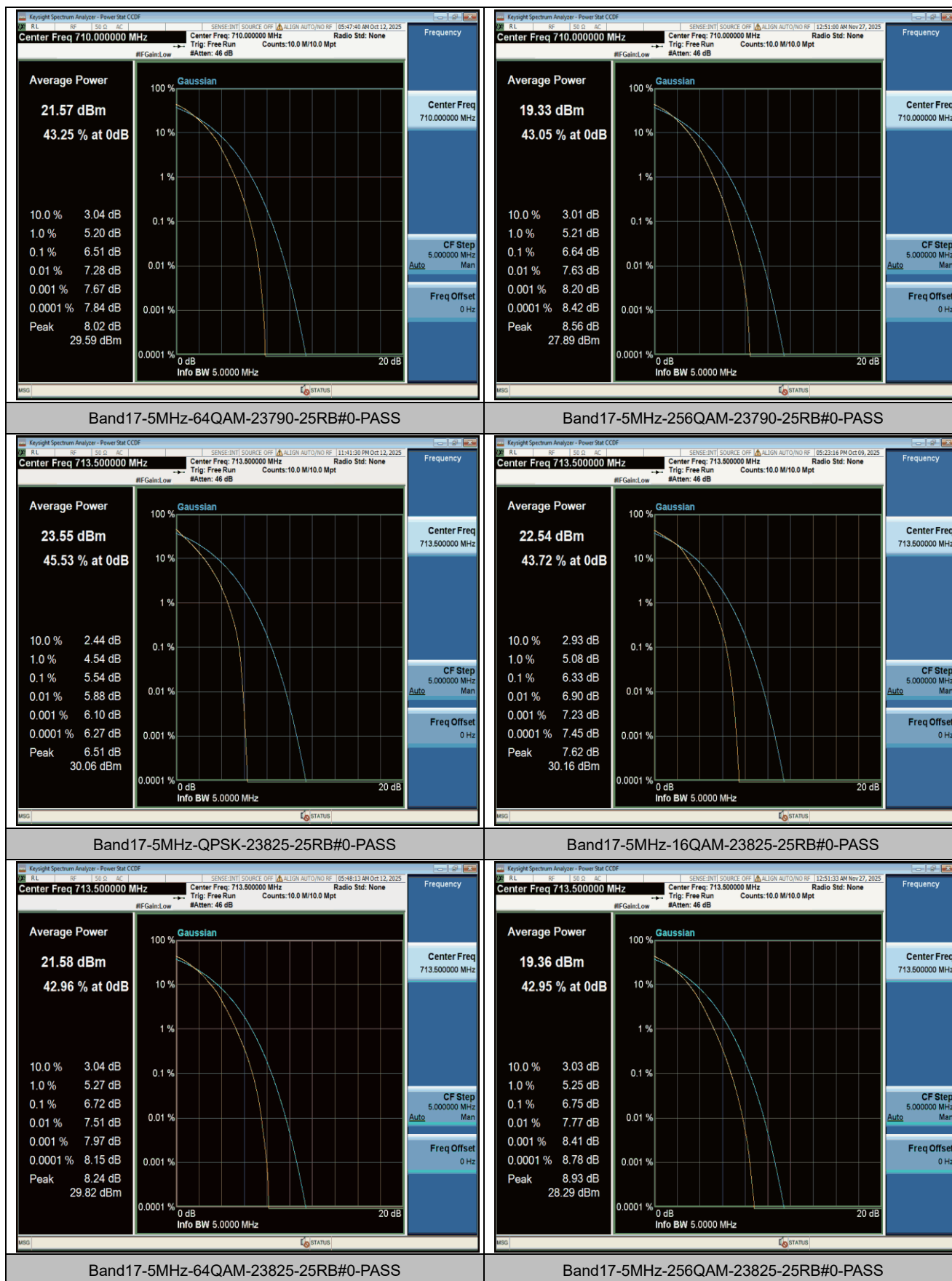
Peak-to-Average Ratio(CCDF)

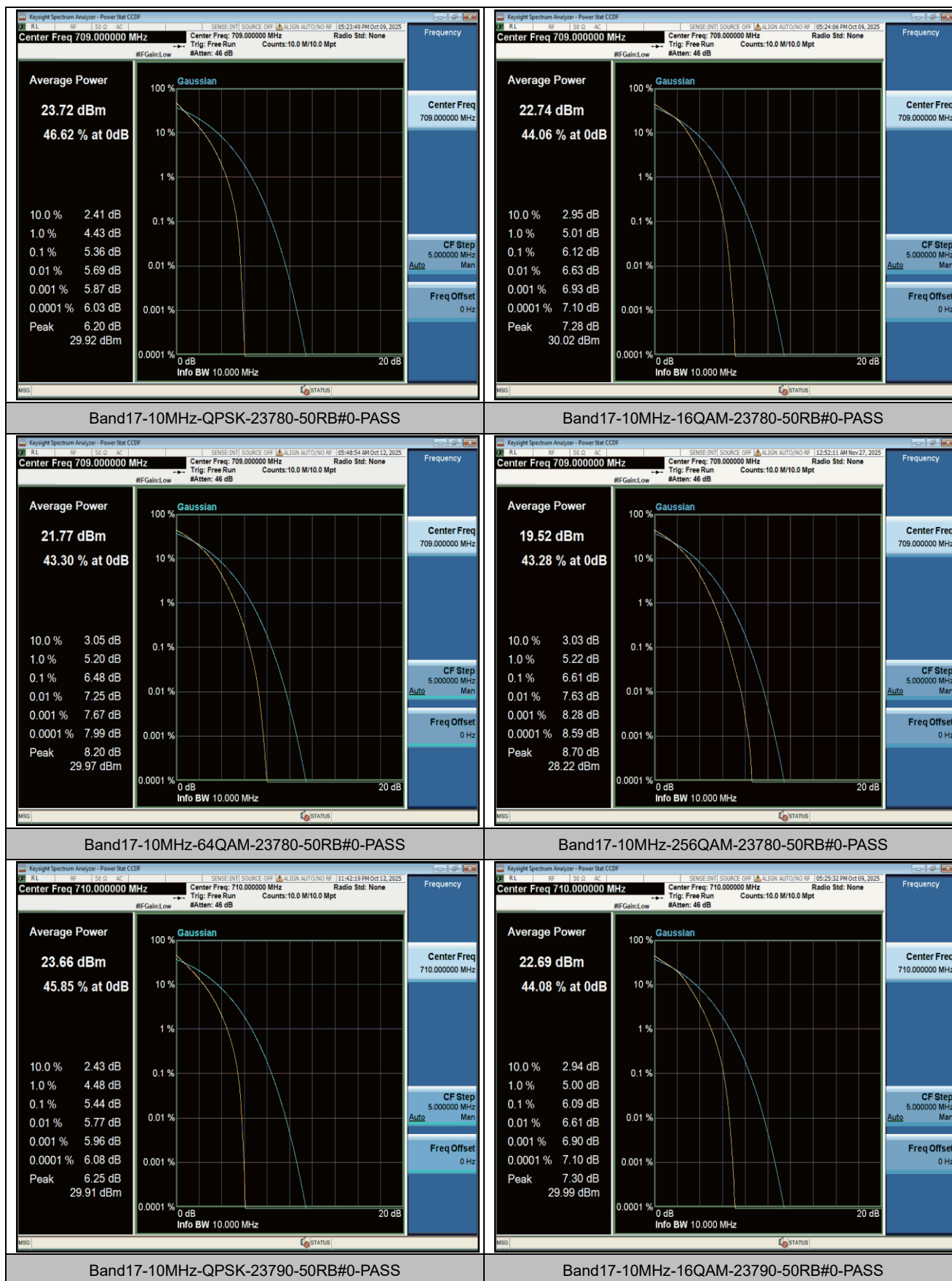
Test Result

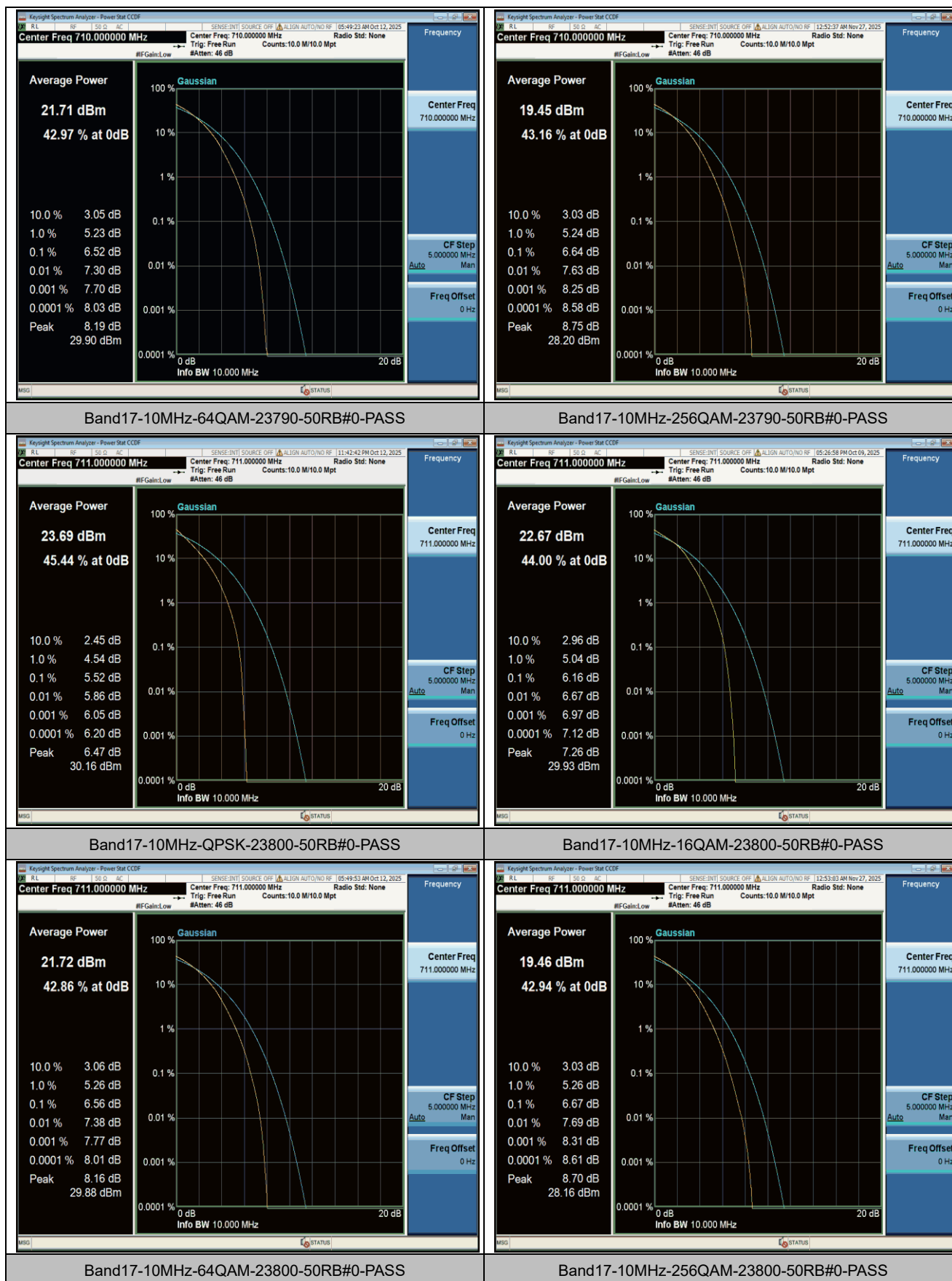
Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dB)	Limit (dB)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	5.32	13	PASS
Band17	5MHz	16QAM	23755	25RB#0	6.13	13	PASS
Band17	5MHz	64QAM	23755	25RB#0	6.45	13	PASS
Band17	5MHz	256QAM	23755	25RB#0	6.69	13	PASS
Band17	5MHz	QPSK	23790	25RB#0	5.49	13	PASS
Band17	5MHz	16QAM	23790	25RB#0	6.16	13	PASS
Band17	5MHz	64QAM	23790	25RB#0	6.51	13	PASS
Band17	5MHz	256QAM	23790	25RB#0	6.64	13	PASS
Band17	5MHz	QPSK	23825	25RB#0	5.54	13	PASS
Band17	5MHz	16QAM	23825	25RB#0	6.33	13	PASS
Band17	5MHz	64QAM	23825	25RB#0	6.72	13	PASS
Band17	5MHz	256QAM	23825	25RB#0	6.75	13	PASS
Band17	10MHz	QPSK	23780	50RB#0	5.36	13	PASS
Band17	10MHz	16QAM	23780	50RB#0	6.12	13	PASS
Band17	10MHz	64QAM	23780	50RB#0	6.48	13	PASS
Band17	10MHz	256QAM	23780	50RB#0	6.61	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	5.44	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	6.09	13	PASS
Band17	10MHz	64QAM	23790	50RB#0	6.52	13	PASS
Band17	10MHz	256QAM	23790	50RB#0	6.64	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	5.52	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	6.16	13	PASS
Band17	10MHz	64QAM	23800	50RB#0	6.56	13	PASS
Band17	10MHz	256QAM	23800	50RB#0	6.67	13	PASS

Test Graphs







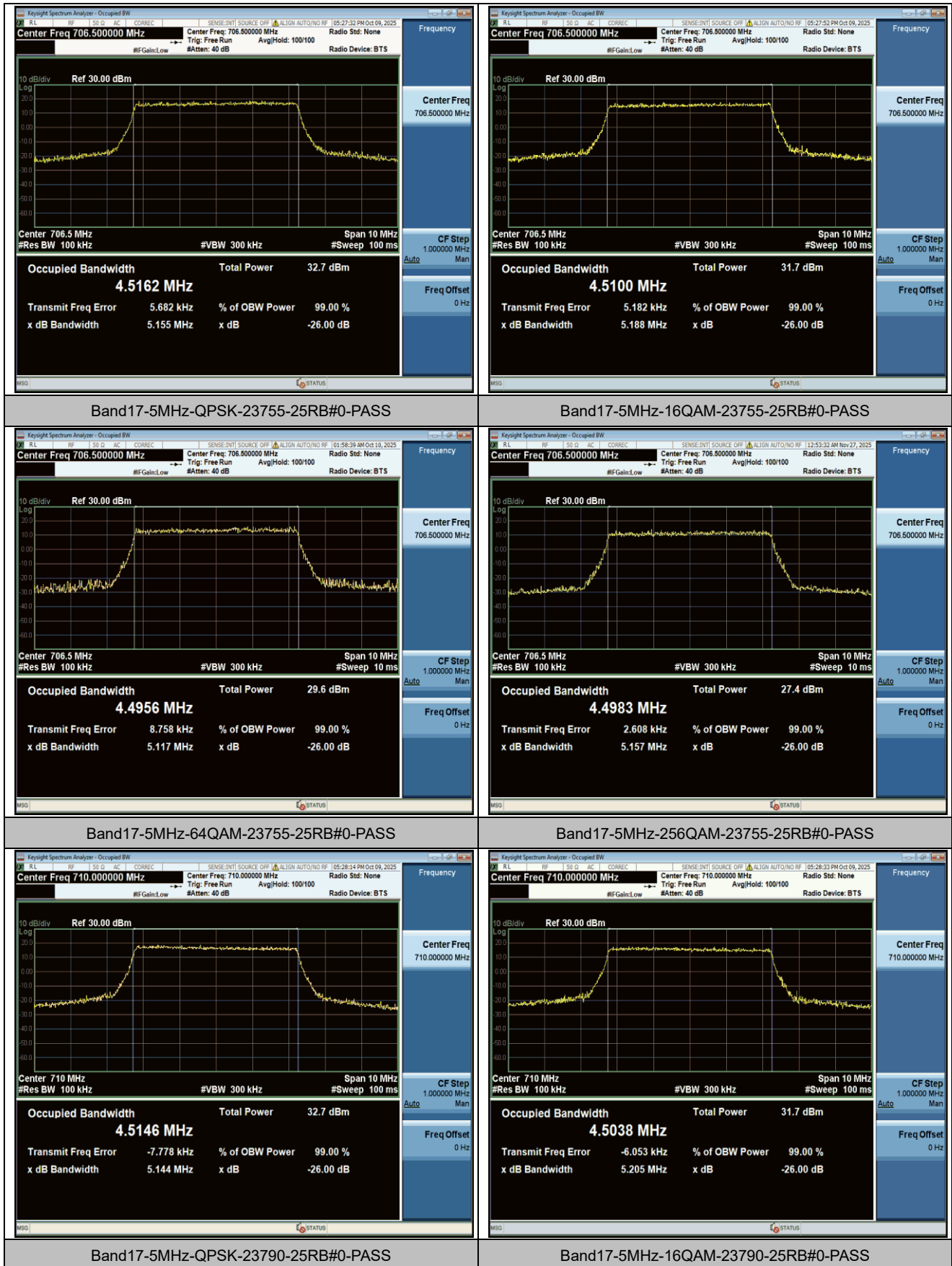


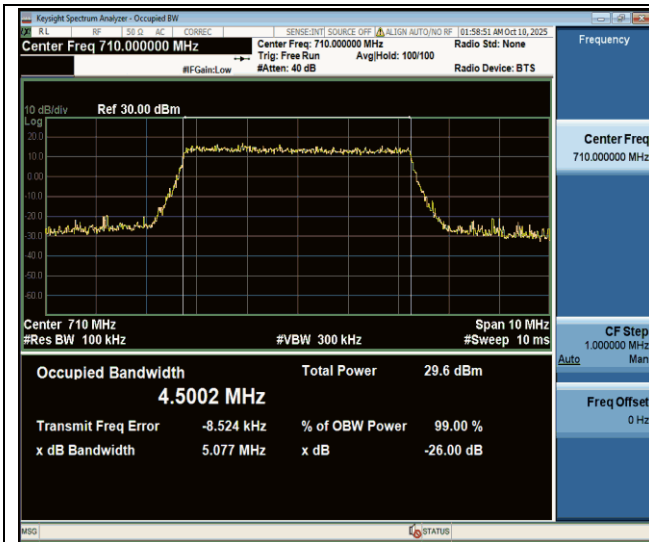
26dB Bandwidth and Occupied Bandwidth

Test Result

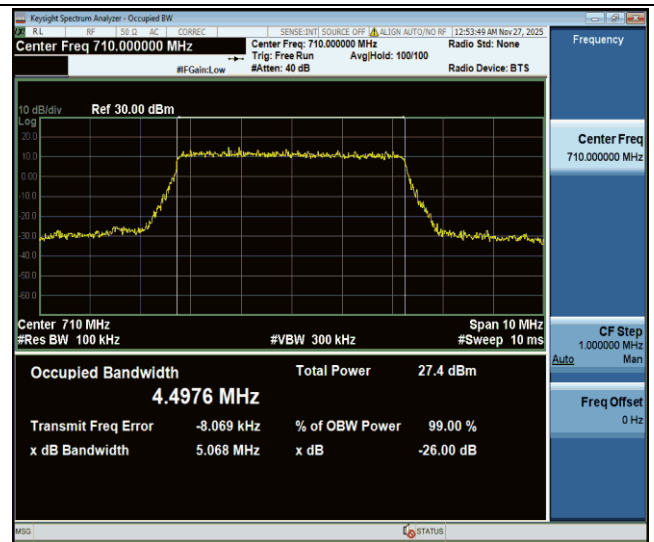
Band	Bandwidth	Modulation	Channel	RB Configuration	OBW (MHz)	26dB EBW (MHz)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	4.5162	5.155	PASS
Band17	5MHz	16QAM	23755	25RB#0	4.5100	5.188	PASS
Band17	5MHz	64QAM	23755	25RB#0	4.4956	5.117	PASS
Band17	5MHz	256QAM	23755	25RB#0	4.4983	5.157	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.5146	5.144	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.5038	5.205	PASS
Band17	5MHz	64QAM	23790	25RB#0	4.5002	5.077	PASS
Band17	5MHz	256QAM	23790	25RB#0	4.4976	5.068	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.5110	5.170	PASS
Band17	5MHz	16QAM	23825	25RB#0	4.5129	5.108	PASS
Band17	5MHz	64QAM	23825	25RB#0	4.4983	5.117	PASS
Band17	5MHz	256QAM	23825	25RB#0	4.5050	5.140	PASS
Band17	10MHz	QPSK	23780	50RB#0	8.9623	9.947	PASS
Band17	10MHz	16QAM	23780	50RB#0	8.9844	9.913	PASS
Band17	10MHz	64QAM	23780	50RB#0	8.9590	9.907	PASS
Band17	10MHz	256QAM	23780	50RB#0	8.9822	9.912	PASS
Band17	10MHz	QPSK	23790	50RB#0	8.9735	10.06	PASS
Band17	10MHz	16QAM	23790	50RB#0	8.9899	9.976	PASS
Band17	10MHz	64QAM	23790	50RB#0	8.9876	9.999	PASS
Band17	10MHz	256QAM	23790	50RB#0	8.9522	9.895	PASS
Band17	10MHz	QPSK	23800	50RB#0	8.9926	9.968	PASS
Band17	10MHz	16QAM	23800	50RB#0	8.9889	10.01	PASS
Band17	10MHz	64QAM	23800	50RB#0	8.9632	9.973	PASS
Band17	10MHz	256QAM	23800	50RB#0	8.9769	9.928	PASS

Test Graphs

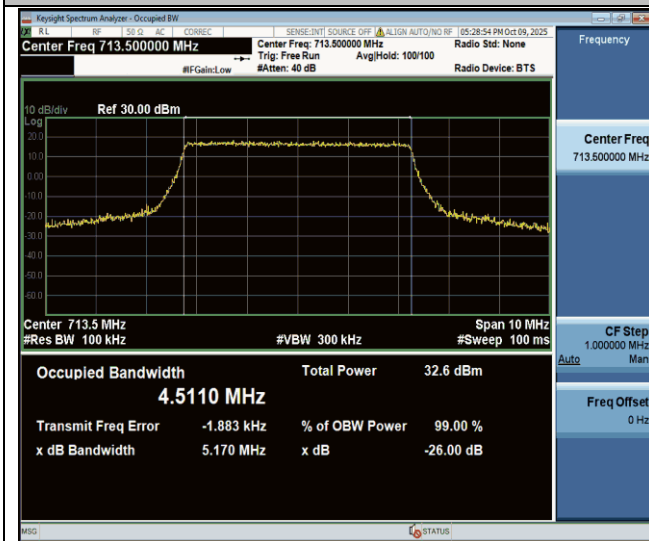




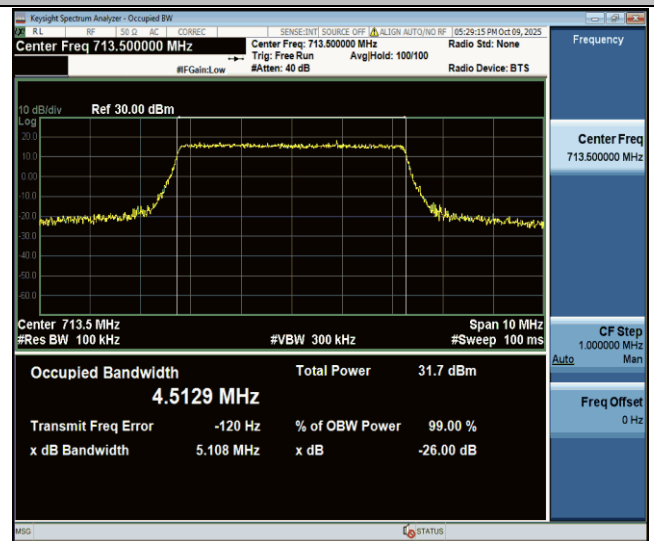
Band17-5MHz-64QAM-23790-25RB#0-PASS



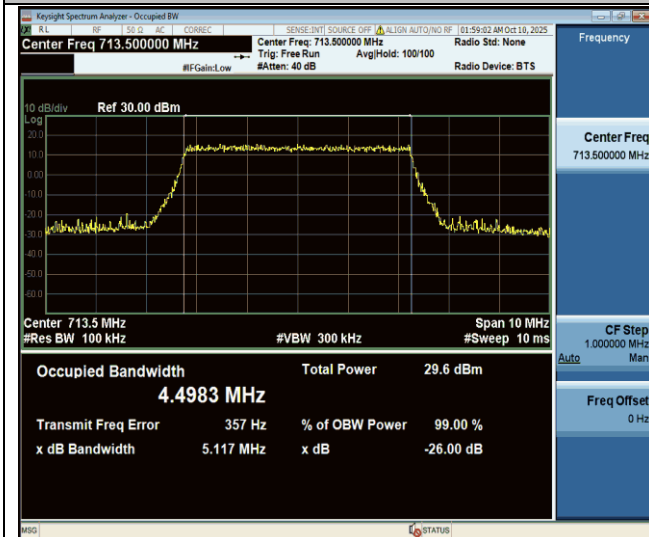
Band17-5MHz-256QAM-23790-25RB#0-PASS



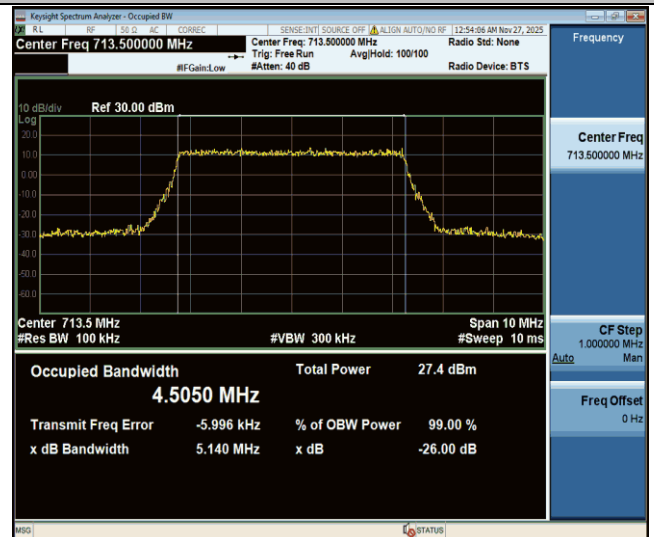
Band17-5MHz-64QAM-23825-25RB#0-PASS



Band17-5MHz-256QAM-23825-25RB#0-PASS



Band17-5MHz-64QAM-23825-25RB#0-PASS



Band17-5MHz-256QAM-23825-25RB#0-PASS



Band17-10MHz-QPSK-23780-50RB#0-PASS



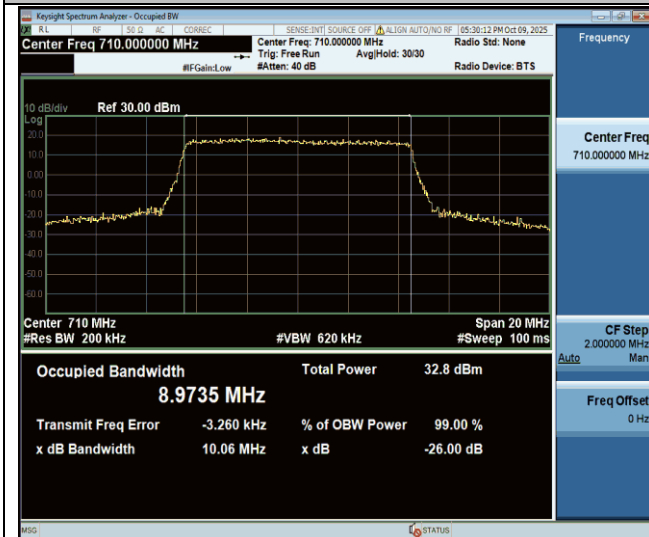
Band17-10MHz-16QAM-23780-50RB#0-PASS



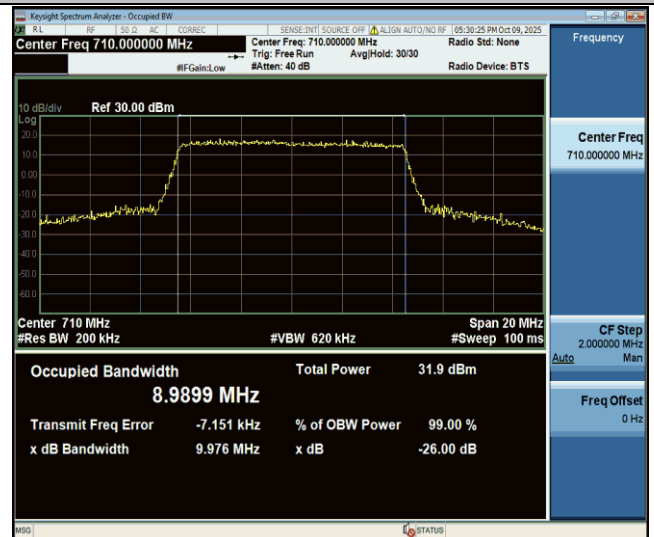
Band17-10MHz-64QAM-23780-50RB#0-PASS



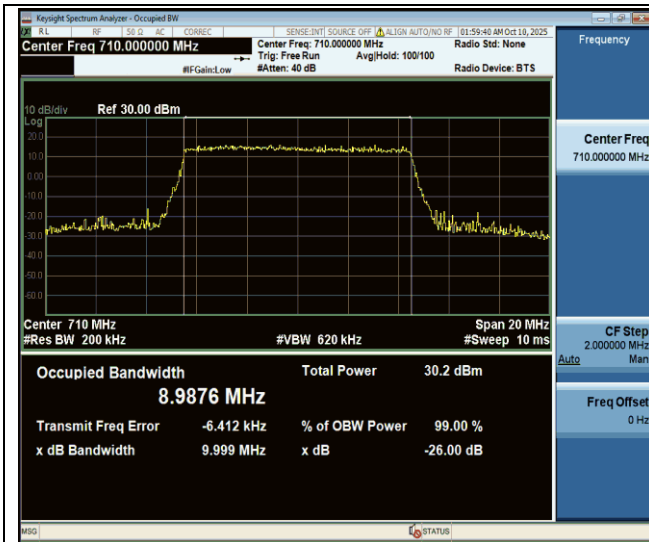
Band17-10MHz-256QAM-23780-50RB#0-PASS



Band17-10MHz-QPSK-23790-50RB#0-PASS



Band17-10MHz-16QAM-23790-50RB#0-PASS



Band17-10MHz-64QAM-23790-50RB#0-PASS



Band17-10MHz-256QAM-23790-50RB#0-PASS



Band17-10MHz-QPSK-23800-50RB#0-PASS



Band17-10MHz-16QAM-23800-50RB#0-PASS



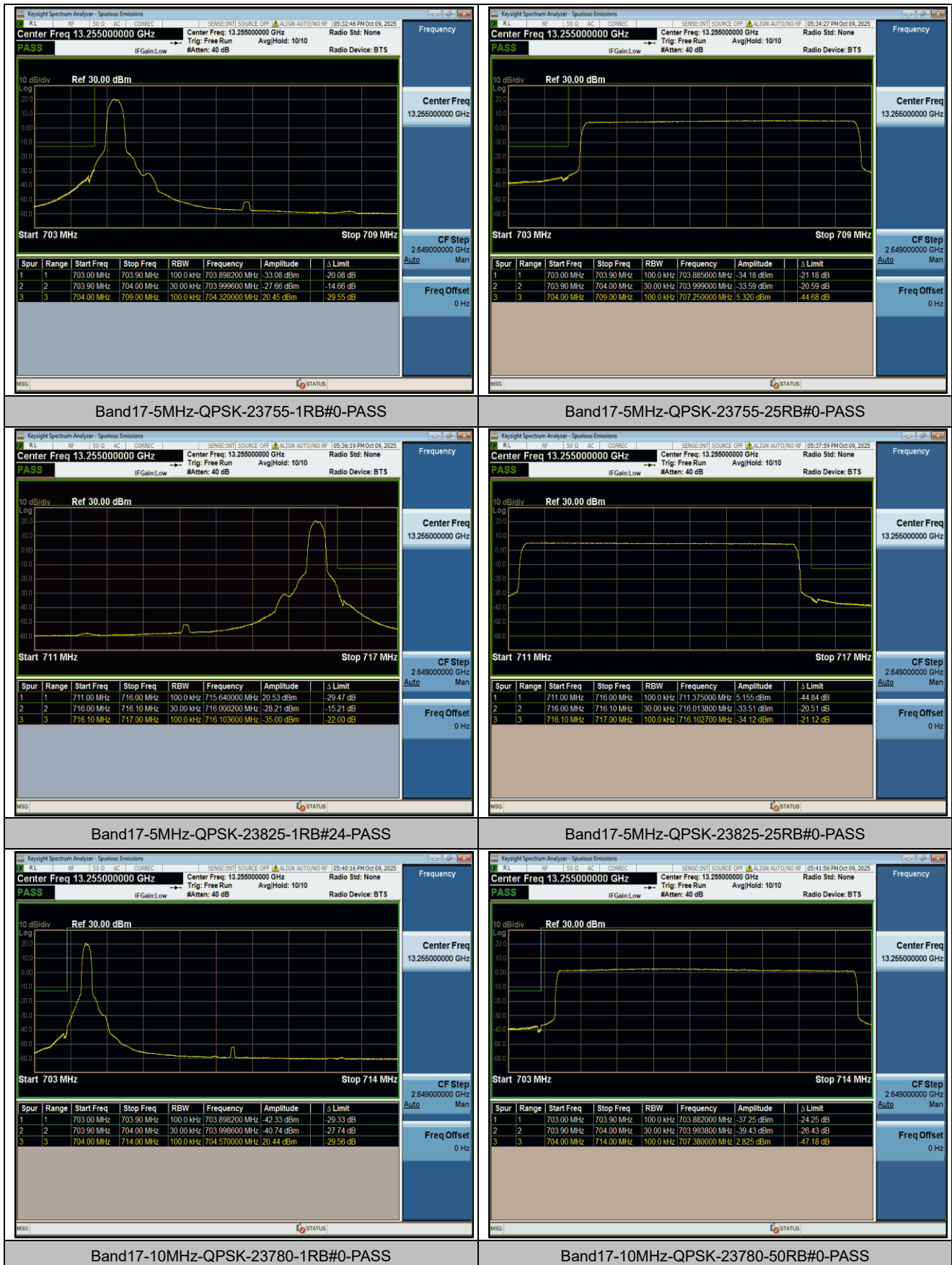
Band17-10MHz-64QAM-23800-50RB#0-PASS

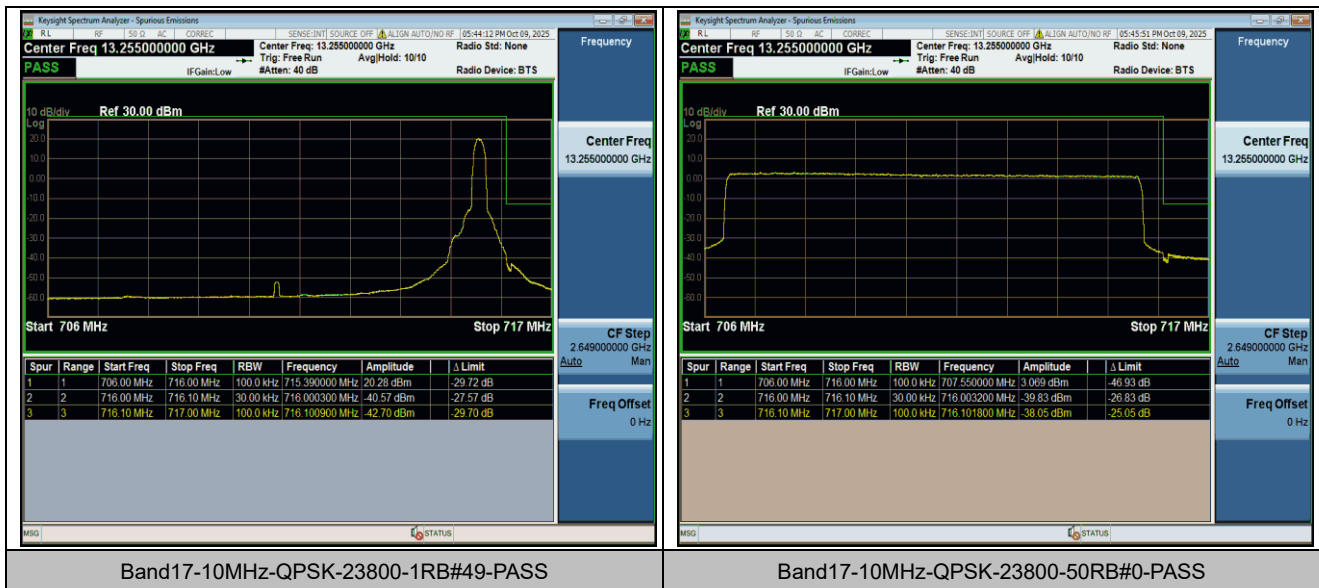


Band17-10MHz-256QAM-23800-50RB#0-PASS

Band Edge

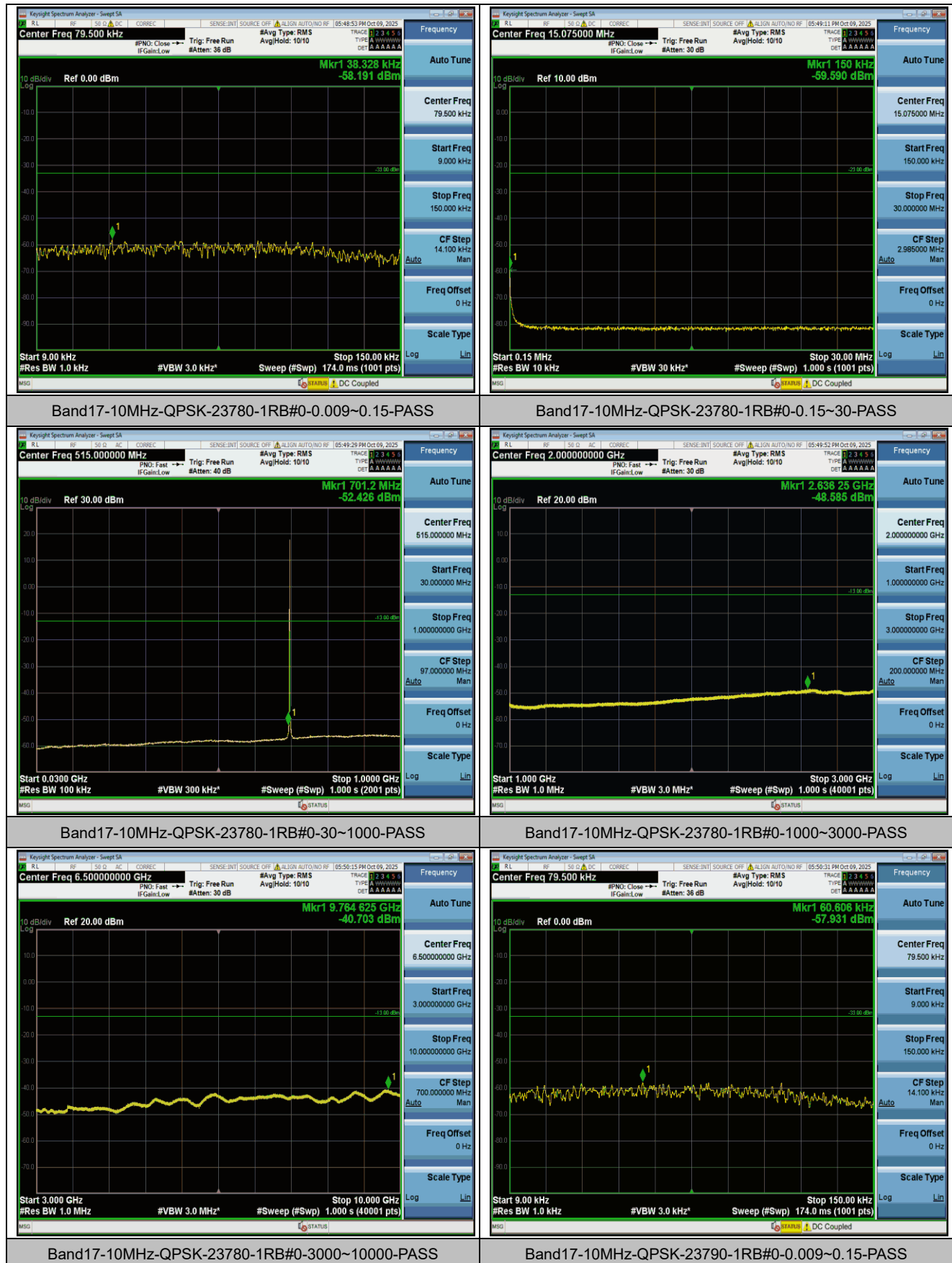
Test Graphs

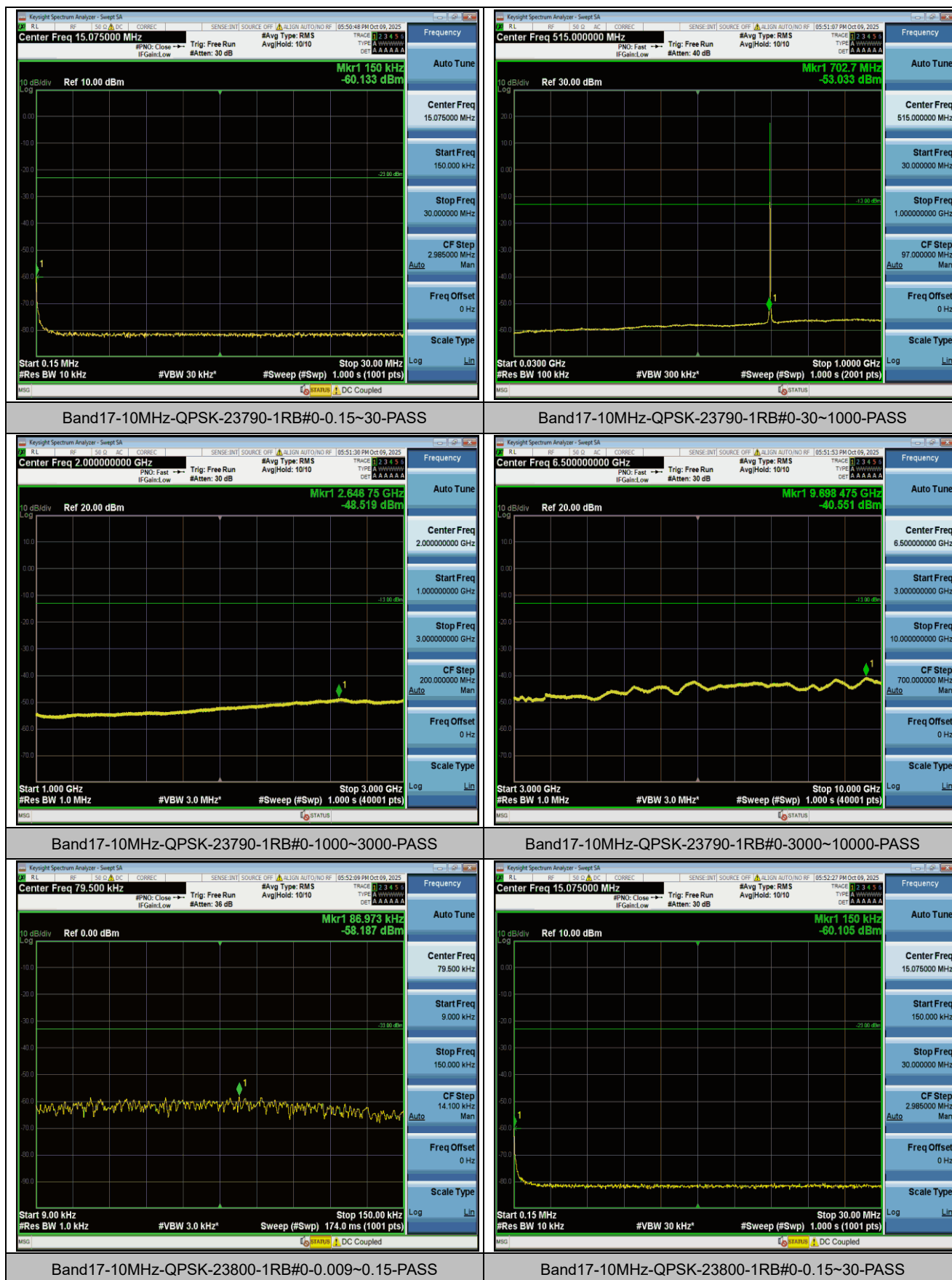


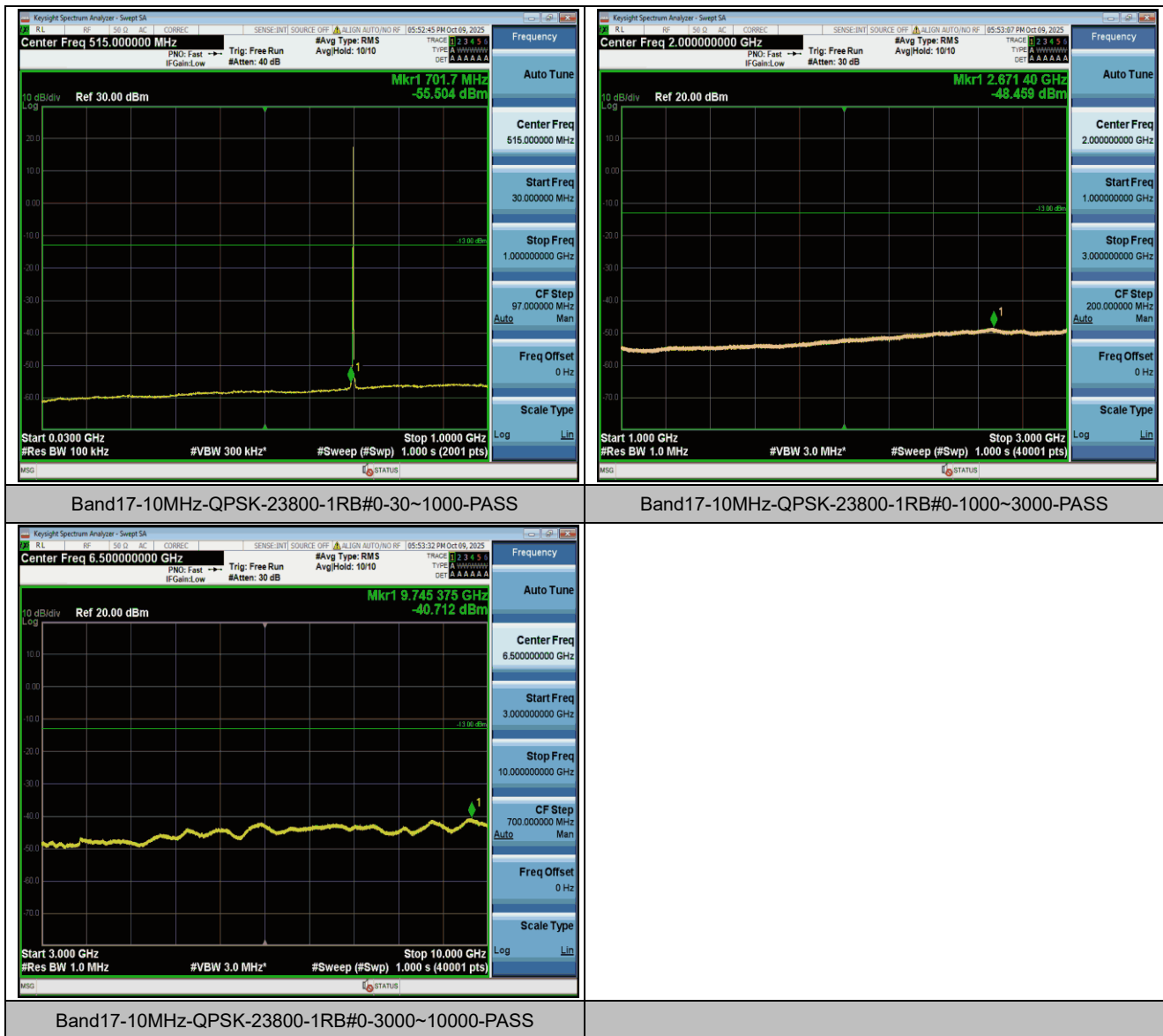


Conducted Spurious Emission

Test Graphs







Frequency Stability

Test Result

Voltage									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band17	10MHz	QPSK	23790	50RB#0	VN	NT	0.10	0.000141	PASS
Band17	10MHz	QPSK	23790	50RB#0	VL	NT	0.80	0.001127	PASS
Band17	10MHz	QPSK	23790	50RB#0	VH	NT	-0.90	-0.001268	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band17	10MHz	QPSK	23790	50RB#0	NV	-30	-2.10	-0.002958	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-20	-0.10	-0.000141	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-10	-2.60	-0.003662	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	0	-0.80	-0.001127	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	10	-0.70	-0.000986	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	20	-0.10	-0.000141	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	30	0.50	0.000704	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	40	-0.90	-0.001268	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	50	-0.40	-0.000563	PASS

~The End~