

Appendix-D 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	23.63	23.06	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#12	23.59	23.02	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#24	23.67	23.1	34.77	PASS
Band17	5MHz	QPSK	23755	25RB#0	22.63	22.06	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#0	22.74	22.17	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#12	22.89	22.32	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#24	22.5	21.93	34.77	PASS
Band17	5MHz	16QAM	23755	25RB#0	21.67	21.1	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#0	21.86	21.29	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#12	21.83	21.26	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#24	21.78	21.21	34.77	PASS
Band17	5MHz	64QAM	23755	25RB#0	20.78	20.21	34.77	PASS
Band17	5MHz	256QAM	23755	1RB#0	18.79	18.22	34.77	PASS
Band17	5MHz	256QAM	23755	1RB#12	18.74	18.17	34.77	PASS
Band17	5MHz	256QAM	23755	1RB#24	18.67	18.1	34.77	PASS
Band17	5MHz	256QAM	23755	25RB#0	18.71	18.14	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#0	23.56	22.99	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#12	23.6	23.03	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#24	23.54	22.97	34.77	PASS
Band17	5MHz	QPSK	23790	25RB#0	22.67	22.1	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#0	22.86	22.29	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#12	22.74	22.17	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#24	22.81	22.24	34.77	PASS
Band17	5MHz	16QAM	23790	25RB#0	21.66	21.09	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#0	21.84	21.27	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#12	21.7	21.13	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#24	21.8	21.23	34.77	PASS
Band17	5MHz	64QAM	23790	25RB#0	20.8	20.23	34.77	PASS
Band17	5MHz	256QAM	23790	1RB#0	18.41	17.84	34.77	PASS
Band17	5MHz	256QAM	23790	1RB#12	18.68	18.11	34.77	PASS
Band17	5MHz	256QAM	23790	1RB#24	18.79	18.22	34.77	PASS
Band17	5MHz	256QAM	23790	25RB#0	18.79	18.22	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#0	23.53	22.96	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#12	23.57	23	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#24	23.55	22.98	34.77	PASS
Band17	5MHz	QPSK	23825	25RB#0	22.64	22.07	34.77	PASS

Band17	5MHz	16QAM	23825	1RB#0	22.74	22.17	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#12	22.67	22.1	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#24	22.74	22.17	34.77	PASS
Band17	5MHz	16QAM	23825	25RB#0	21.65	21.08	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#0	21.73	21.16	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#12	21.67	21.1	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#24	21.77	21.2	34.77	PASS
Band17	5MHz	64QAM	23825	25RB#0	20.8	20.23	34.77	PASS
Band17	5MHz	256QAM	23825	1RB#0	18.41	17.84	34.77	PASS
Band17	5MHz	256QAM	23825	1RB#12	18.74	18.17	34.77	PASS
Band17	5MHz	256QAM	23825	1RB#24	18.69	18.12	34.77	PASS
Band17	5MHz	256QAM	23825	25RB#0	18.76	18.19	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#0	23.56	22.99	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#24	23.59	23.02	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#49	23.69	23.12	34.77	PASS
Band17	10MHz	QPSK	23780	50RB#0	22.68	22.11	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#0	22.53	21.96	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#24	22.75	22.18	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#49	22.77	22.2	34.77	PASS
Band17	10MHz	16QAM	23780	50RB#0	21.68	21.11	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#0	21.83	21.26	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#24	21.81	21.24	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#49	21.86	21.29	34.77	PASS
Band17	10MHz	64QAM	23780	50RB#0	20.84	20.27	34.77	PASS
Band17	10MHz	256QAM	23780	1RB#0	18.61	18.04	34.77	PASS
Band17	10MHz	256QAM	23780	1RB#24	18.74	18.17	34.77	PASS
Band17	10MHz	256QAM	23780	1RB#49	18.76	18.19	34.77	PASS
Band17	10MHz	256QAM	23780	50RB#0	18.79	18.22	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#0	23.52	22.95	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#24	23.55	22.98	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#49	23.58	23.01	34.77	PASS
Band17	10MHz	QPSK	23790	50RB#0	22.71	22.14	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#0	22.78	22.21	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#24	22.73	22.16	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#49	22.86	22.29	34.77	PASS
Band17	10MHz	16QAM	23790	50RB#0	21.68	21.11	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#0	21.95	21.38	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#24	21.93	21.36	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#49	21.72	21.15	34.77	PASS
Band17	10MHz	64QAM	23790	50RB#0	20.83	20.26	34.77	PASS
Band17	10MHz	256QAM	23790	1RB#0	18.74	18.17	34.77	PASS
Band17	10MHz	256QAM	23790	1RB#24	18.77	18.2	34.77	PASS
Band17	10MHz	256QAM	23790	1RB#49	18.71	18.14	34.77	PASS
Band17	10MHz	256QAM	23790	50RB#0	18.75	18.18	34.77	PASS

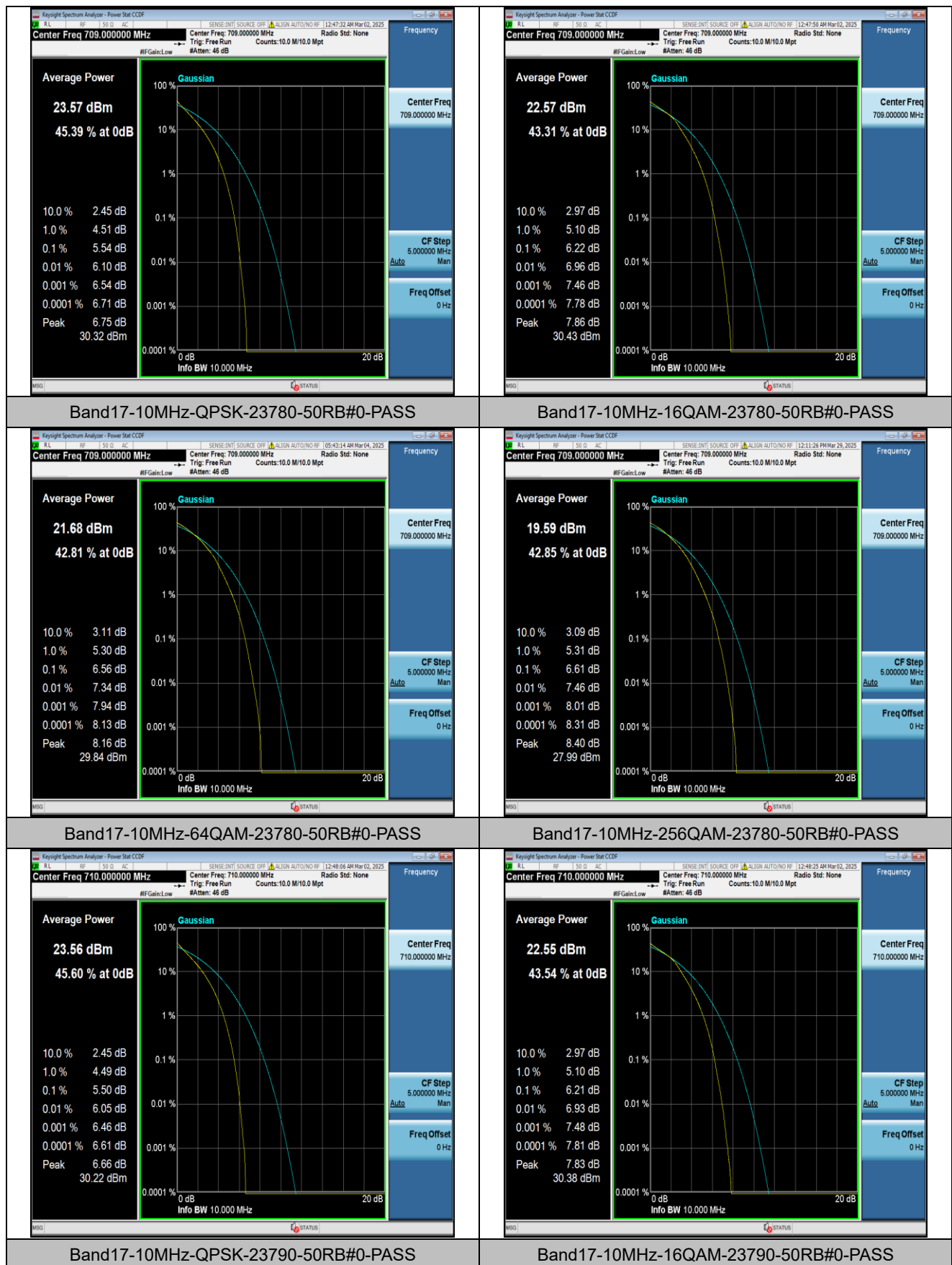
Band17	10MHz	QPSK	23800	1RB#0	23.51	22.94	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#24	23.62	23.05	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#49	23.57	23	34.77	PASS
Band17	10MHz	QPSK	23800	50RB#0	22.66	22.09	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#0	22.82	22.25	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#24	22.75	22.18	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#49	22.62	22.05	34.77	PASS
Band17	10MHz	16QAM	23800	50RB#0	21.61	21.04	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#0	21.73	21.16	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#24	21.88	21.31	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#49	21.71	21.14	34.77	PASS
Band17	10MHz	64QAM	23800	50RB#0	20.83	20.26	34.77	PASS
Band17	10MHz	256QAM	23800	1RB#0	18.38	17.81	34.77	PASS
Band17	10MHz	256QAM	23800	1RB#24	18.71	18.14	34.77	PASS
Band17	10MHz	256QAM	23800	1RB#49	18.68	18.11	34.77	PASS
Band17	10MHz	256QAM	23800	50RB#0	18.73	18.16	34.77	PASS

Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dB)	Limit (dB)	Verdict
Band17	10MHz	QPSK	23780	50RB#0	5.54	13	PASS
Band17	10MHz	16QAM	23780	50RB#0	6.22	13	PASS
Band17	10MHz	64QAM	23780	50RB#0	6.56	13	PASS
Band17	10MHz	256QAM	23780	50RB#0	6.61	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	5.50	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	6.21	13	PASS
Band17	10MHz	64QAM	23790	50RB#0	6.55	13	PASS
Band17	10MHz	256QAM	23790	50RB#0	6.60	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	5.49	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	6.19	13	PASS
Band17	10MHz	64QAM	23800	50RB#0	6.52	13	PASS
Band17	10MHz	256QAM	23800	50RB#0	6.61	13	PASS

Test Graphs



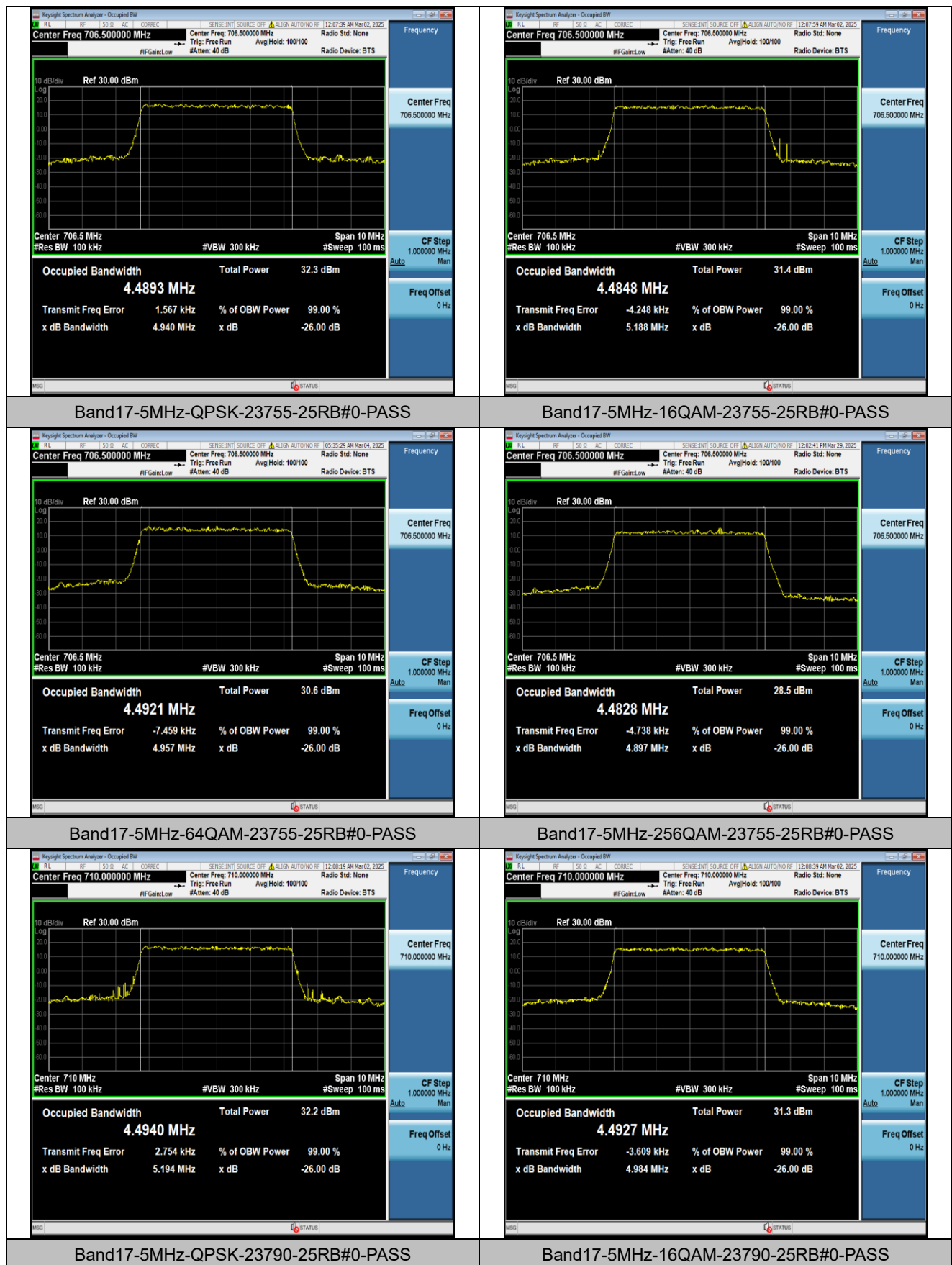


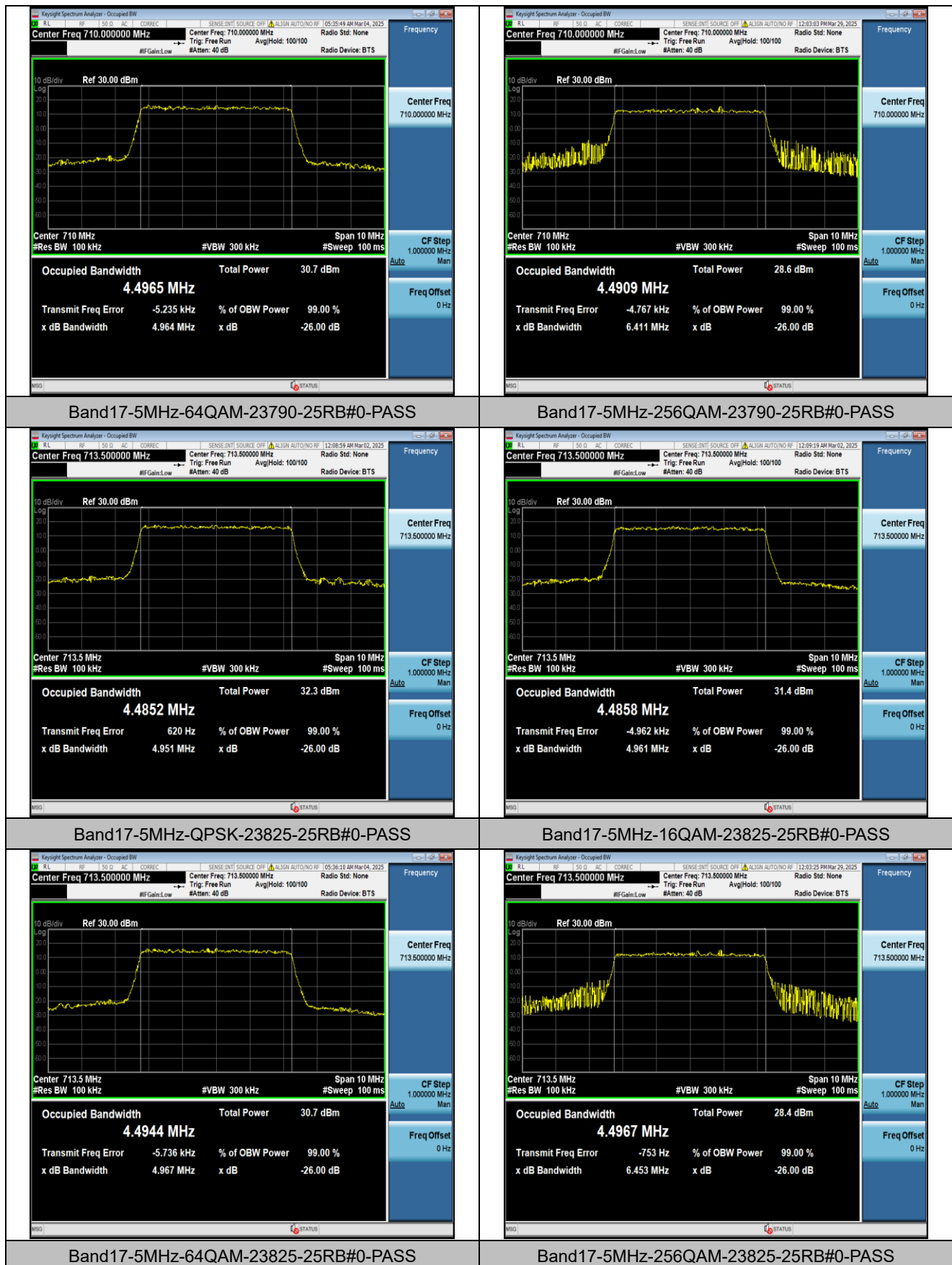
26dB Bandwidth and Occupied Bandwidth

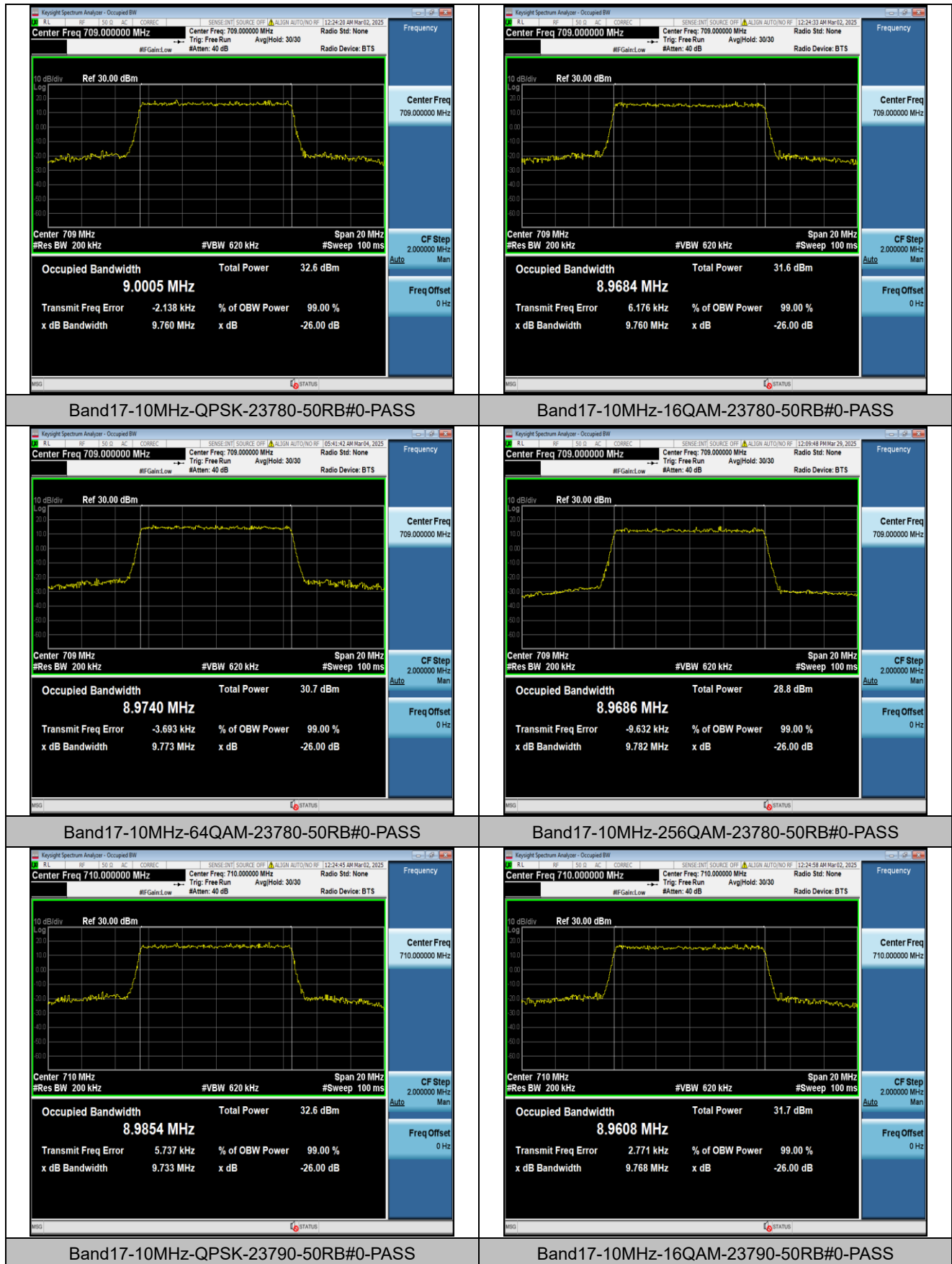
Test Result

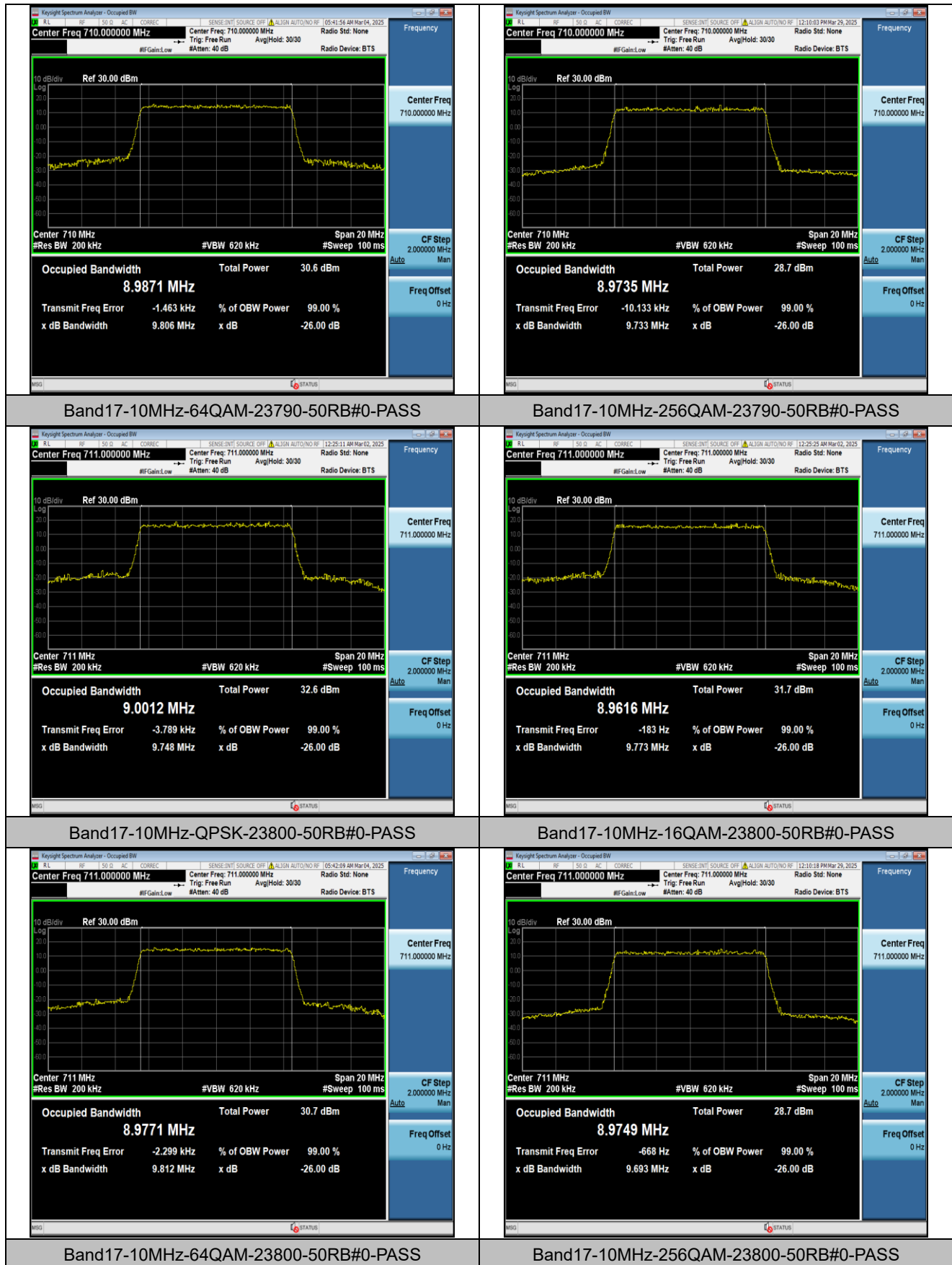
Band	Bandwidth	Modulation	Channel	RB Configuration	OBW (MHz)	26dB EBW (MHz)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	4.4893	4.940	PASS
Band17	5MHz	16QAM	23755	25RB#0	4.4848	5.188	PASS
Band17	5MHz	64QAM	23755	25RB#0	4.4921	4.957	PASS
Band17	5MHz	256QAM	23755	25RB#0	4.4828	4.897	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.4940	5.194	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.4927	4.984	PASS
Band17	5MHz	64QAM	23790	25RB#0	4.4965	4.964	PASS
Band17	5MHz	256QAM	23790	25RB#0	4.4909	6.411	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.4852	4.951	PASS
Band17	5MHz	16QAM	23825	25RB#0	4.4858	4.961	PASS
Band17	5MHz	64QAM	23825	25RB#0	4.4944	4.967	PASS
Band17	5MHz	256QAM	23825	25RB#0	4.4967	6.453	PASS
Band17	10MHz	QPSK	23780	50RB#0	9.0005	9.760	PASS
Band17	10MHz	16QAM	23780	50RB#0	8.9684	9.760	PASS
Band17	10MHz	64QAM	23780	50RB#0	8.9740	9.773	PASS
Band17	10MHz	256QAM	23780	50RB#0	8.9686	9.782	PASS
Band17	10MHz	QPSK	23790	50RB#0	8.9854	9.733	PASS
Band17	10MHz	16QAM	23790	50RB#0	8.9608	9.768	PASS
Band17	10MHz	64QAM	23790	50RB#0	8.9871	9.806	PASS
Band17	10MHz	256QAM	23790	50RB#0	8.9735	9.733	PASS
Band17	10MHz	QPSK	23800	50RB#0	9.0012	9.748	PASS
Band17	10MHz	16QAM	23800	50RB#0	8.9616	9.773	PASS
Band17	10MHz	64QAM	23800	50RB#0	8.9771	9.812	PASS
Band17	10MHz	256QAM	23800	50RB#0	8.9749	9.693	PASS

Test Graphs





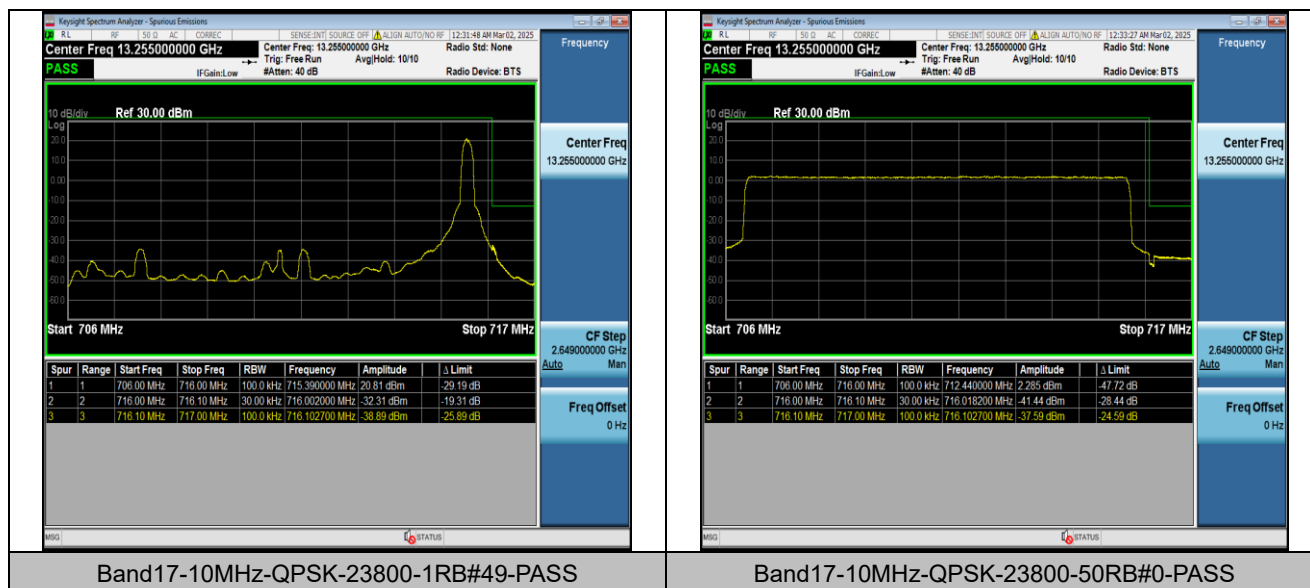




Band Edge

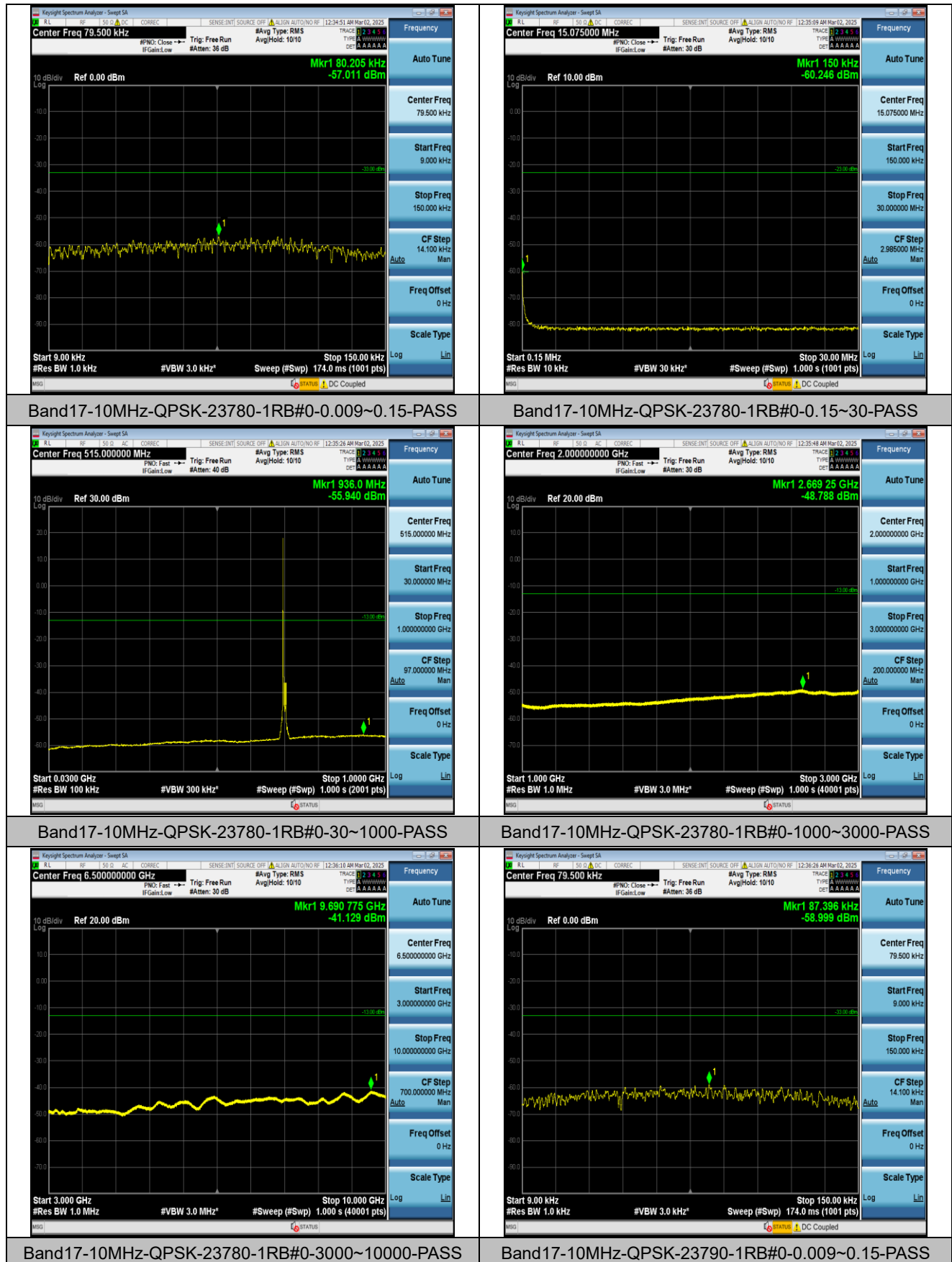
Test Graphs

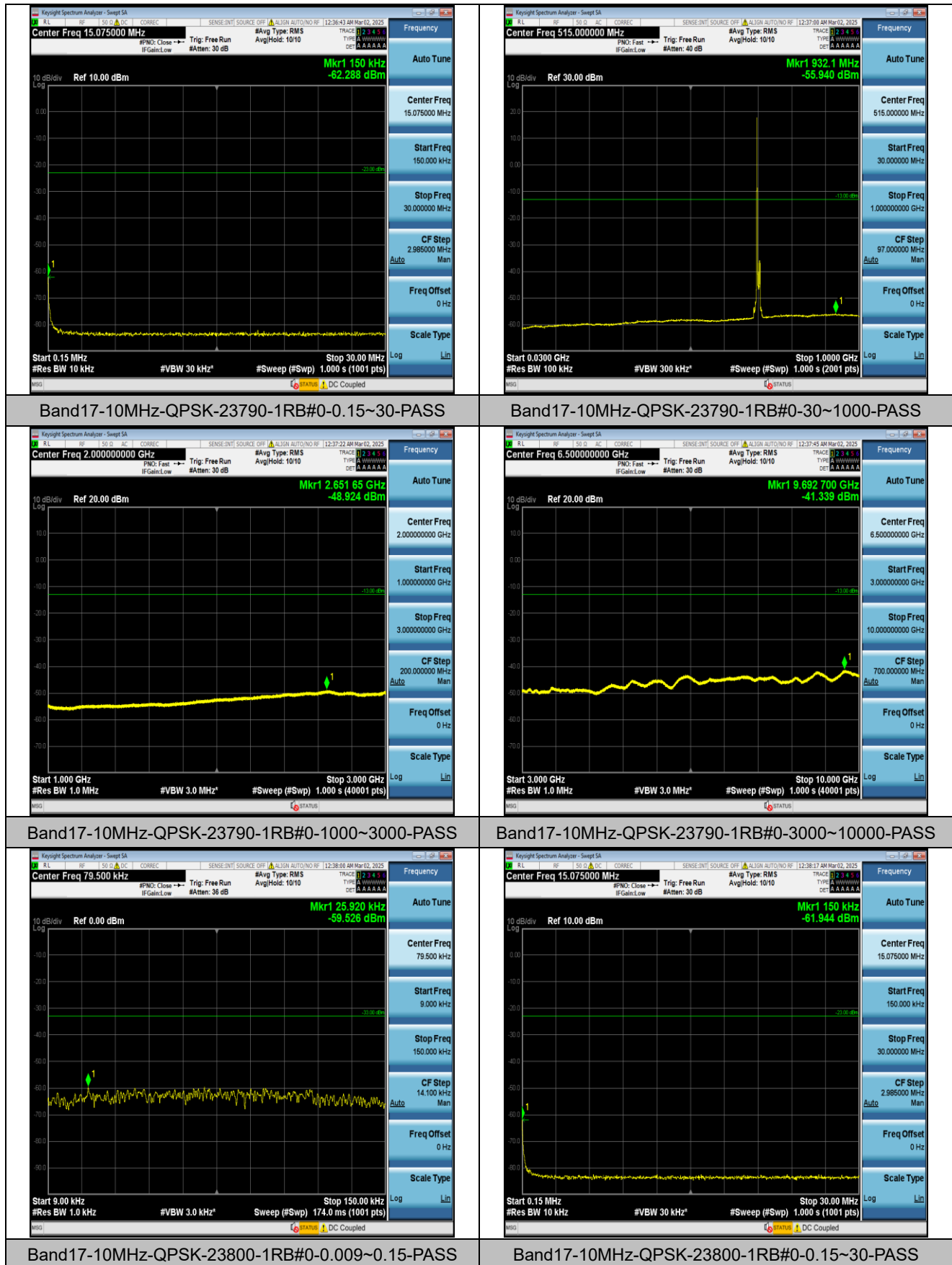


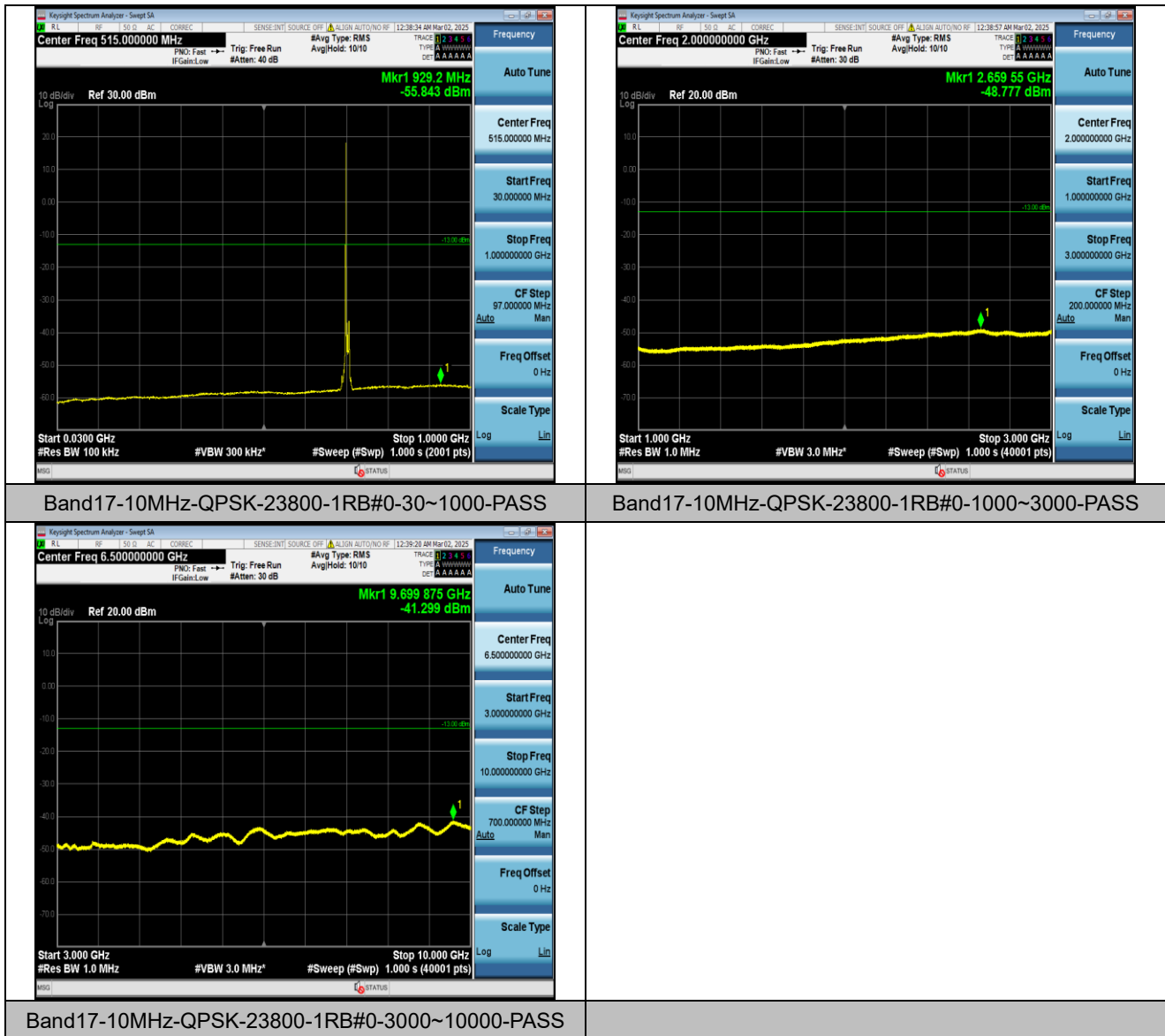


Conducted Spurious Emission

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	2.00	0.002817	PASS
Band17	10MHz	QPSK	23790	50RB#0	VL	NT	-2.80	-0.003944	PASS
Band17	10MHz	QPSK	23790	50RB#0	VH	NT	0.70	0.000986	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	0.70	0.000986	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-20	-0.60	-0.000845	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-10	-2.90	-0.004085	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	0	0.10	0.000141	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	10	1.00	0.001408	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	20	0.70	0.000986	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	30	0.10	0.000141	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	40	0.00	0.000000	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	50	-3.50	-0.004930	PASS

~The End~