

Appendix-A LTE Band 17

Effective (Isotropic) Radiated Power Output Data

Test Result

Ant8:

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	23.89	23.44	34.77	PASS
Band17	5MHz	QPSK	23755	12RB#0	23.02	22.57	34.77	PASS
Band17	5MHz	QPSK	23755	25RB#0	23.02	22.57	34.77	PASS
Band17	5MHz	QPSK	23755	12RB#6	23.08	22.63	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#12	24.10	23.65	34.77	PASS
Band17	5MHz	QPSK	23755	12RB#13	23.00	22.55	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#24	23.91	23.46	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#0	24.03	23.58	34.77	PASS
Band17	5MHz	QPSK	23790	12RB#0	22.96	22.51	34.77	PASS
Band17	5MHz	QPSK	23790	25RB#0	22.94	22.49	34.77	PASS
Band17	5MHz	QPSK	23790	12RB#6	23.06	22.61	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#12	23.97	23.52	34.77	PASS
Band17	5MHz	QPSK	23790	12RB#13	23.01	22.56	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#24	23.87	23.42	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#0	23.95	23.5	34.77	PASS
Band17	5MHz	QPSK	23825	12RB#0	23.02	22.57	34.77	PASS
Band17	5MHz	QPSK	23825	25RB#0	23.03	22.58	34.77	PASS
Band17	5MHz	QPSK	23825	12RB#6	23.10	22.65	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#12	23.97	23.52	34.77	PASS
Band17	5MHz	QPSK	23825	12RB#13	23.08	22.63	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#24	23.94	23.49	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#0	23.44	22.99	34.77	PASS
Band17	5MHz	16QAM	23755	12RB#0	22.01	21.56	34.77	PASS
Band17	5MHz	16QAM	23755	25RB#0	21.99	21.54	34.77	PASS
Band17	5MHz	16QAM	23755	12RB#6	22.08	21.63	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#12	23.25	22.8	34.77	PASS
Band17	5MHz	16QAM	23755	12RB#13	22.09	21.64	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#24	23.10	22.65	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#0	23.28	22.83	34.77	PASS
Band17	5MHz	16QAM	23790	12RB#0	22.02	21.57	34.77	PASS
Band17	5MHz	16QAM	23790	25RB#0	22.04	21.59	34.77	PASS
Band17	5MHz	16QAM	23790	12RB#6	22.02	21.57	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#12	23.36	22.91	34.77	PASS
Band17	5MHz	16QAM	23790	12RB#13	22.10	21.65	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#24	23.08	22.63	34.77	PASS

Band17	5MHz	16QAM	23825	1RB#0	23.31	22.86	34.77	PASS
Band17	5MHz	16QAM	23825	12RB#0	22.14	21.69	34.77	PASS
Band17	5MHz	16QAM	23825	25RB#0	22.09	21.64	34.77	PASS
Band17	5MHz	16QAM	23825	12RB#6	22.08	21.63	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#12	23.41	22.96	34.77	PASS
Band17	5MHz	16QAM	23825	12RB#13	22.10	21.65	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#24	23.42	22.97	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#0	22.14	21.69	34.77	PASS
Band17	5MHz	64QAM	23755	12RB#0	20.87	20.42	34.77	PASS
Band17	5MHz	64QAM	23755	25RB#0	20.83	20.38	34.77	PASS
Band17	5MHz	64QAM	23755	12RB#6	20.90	20.45	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#12	22.05	21.6	34.77	PASS
Band17	5MHz	64QAM	23755	12RB#13	20.91	20.46	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#24	21.79	21.34	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#0	21.97	21.52	34.77	PASS
Band17	5MHz	64QAM	23790	12RB#0	20.92	20.47	34.77	PASS
Band17	5MHz	64QAM	23790	25RB#0	20.90	20.45	34.77	PASS
Band17	5MHz	64QAM	23790	12RB#6	20.95	20.5	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#12	22.18	21.73	34.77	PASS
Band17	5MHz	64QAM	23790	12RB#13	20.88	20.43	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#24	21.87	21.42	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#0	22.04	21.59	34.77	PASS
Band17	5MHz	64QAM	23825	12RB#0	21.00	20.55	34.77	PASS
Band17	5MHz	64QAM	23825	25RB#0	20.98	20.53	34.77	PASS
Band17	5MHz	64QAM	23825	12RB#6	20.96	20.51	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#12	22.11	21.66	34.77	PASS
Band17	5MHz	64QAM	23825	12RB#13	21.01	20.56	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#24	21.96	21.51	34.77	PASS
Band17	5MHz	256QAM	23755	1RB#0	19.23	18.78	34.77	PASS
Band17	5MHz	256QAM	23755	12RB#0	19.07	18.62	34.77	PASS
Band17	5MHz	256QAM	23755	25RB#0	19.07	18.62	34.77	PASS
Band17	5MHz	256QAM	23755	12RB#6	19.10	18.65	34.77	PASS
Band17	5MHz	256QAM	23755	1RB#12	19.39	18.94	34.77	PASS
Band17	5MHz	256QAM	23755	12RB#13	18.94	18.49	34.77	PASS
Band17	5MHz	256QAM	23755	1RB#24	19.27	18.82	34.77	PASS
Band17	5MHz	256QAM	23790	1RB#0	19.21	18.76	34.77	PASS
Band17	5MHz	256QAM	23790	12RB#0	19.03	18.58	34.77	PASS
Band17	5MHz	256QAM	23790	25RB#0	18.98	18.53	34.77	PASS
Band17	5MHz	256QAM	23790	12RB#6	19.15	18.7	34.77	PASS
Band17	5MHz	256QAM	23790	1RB#12	19.20	18.75	34.77	PASS
Band17	5MHz	256QAM	23790	12RB#13	19.03	18.58	34.77	PASS
Band17	5MHz	256QAM	23790	1RB#24	19.09	18.64	34.77	PASS
Band17	5MHz	256QAM	23825	1RB#0	19.20	18.75	34.77	PASS
Band17	5MHz	256QAM	23825	12RB#0	19.04	18.59	34.77	PASS
Band17	5MHz	256QAM	23825	25RB#0	19.13	18.68	34.77	PASS

Band17	5MHz	256QAM	23825	12RB#6	19.13	18.68	34.77	PASS
Band17	5MHz	256QAM	23825	1RB#12	19.32	18.87	34.77	PASS
Band17	5MHz	256QAM	23825	12RB#13	19.08	18.63	34.77	PASS
Band17	5MHz	256QAM	23825	1RB#24	19.19	18.74	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#0	23.90	23.45	34.77	PASS
Band17	10MHz	QPSK	23780	25RB#0	23.01	22.56	34.77	PASS
Band17	10MHz	QPSK	23780	50RB#0	22.95	22.5	34.77	PASS
Band17	10MHz	QPSK	23780	25RB#12	23.04	22.59	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#24	23.97	23.52	34.77	PASS
Band17	10MHz	QPSK	23780	25RB#25	23.02	22.57	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#49	23.87	23.42	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#0	23.97	23.52	34.77	PASS
Band17	10MHz	QPSK	23790	25RB#0	23.05	22.6	34.77	PASS
Band17	10MHz	QPSK	23790	50RB#0	22.98	22.53	34.77	PASS
Band17	10MHz	QPSK	23790	25RB#12	23.05	22.6	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#24	23.95	23.5	34.77	PASS
Band17	10MHz	QPSK	23790	25RB#25	23.01	22.56	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#49	24.02	23.57	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#0	23.94	23.49	34.77	PASS
Band17	10MHz	QPSK	23800	25RB#0	23.07	22.62	34.77	PASS
Band17	10MHz	QPSK	23800	50RB#0	23.00	22.55	34.77	PASS
Band17	10MHz	QPSK	23800	25RB#12	23.00	22.55	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#24	23.92	23.47	34.77	PASS
Band17	10MHz	QPSK	23800	25RB#25	23.08	22.63	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#49	24.05	23.6	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#0	23.12	22.67	34.77	PASS
Band17	10MHz	16QAM	23780	25RB#0	22.07	21.62	34.77	PASS
Band17	10MHz	16QAM	23780	50RB#0	22.05	21.6	34.77	PASS
Band17	10MHz	16QAM	23780	25RB#12	22.09	21.64	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#24	23.43	22.98	34.77	PASS
Band17	10MHz	16QAM	23780	25RB#25	22.08	21.63	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#49	23.28	22.83	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#0	23.21	22.76	34.77	PASS
Band17	10MHz	16QAM	23790	25RB#0	22.14	21.69	34.77	PASS
Band17	10MHz	16QAM	23790	50RB#0	22.05	21.6	34.77	PASS
Band17	10MHz	16QAM	23790	25RB#12	22.08	21.63	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#24	23.33	22.88	34.77	PASS
Band17	10MHz	16QAM	23790	25RB#25	22.07	21.62	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#49	23.28	22.83	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#0	23.21	22.76	34.77	PASS
Band17	10MHz	16QAM	23800	25RB#0	22.08	21.63	34.77	PASS
Band17	10MHz	16QAM	23800	50RB#0	22.03	21.58	34.77	PASS
Band17	10MHz	16QAM	23800	25RB#12	22.06	21.61	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#24	23.18	22.73	34.77	PASS
Band17	10MHz	16QAM	23800	25RB#25	22.10	21.65	34.77	PASS

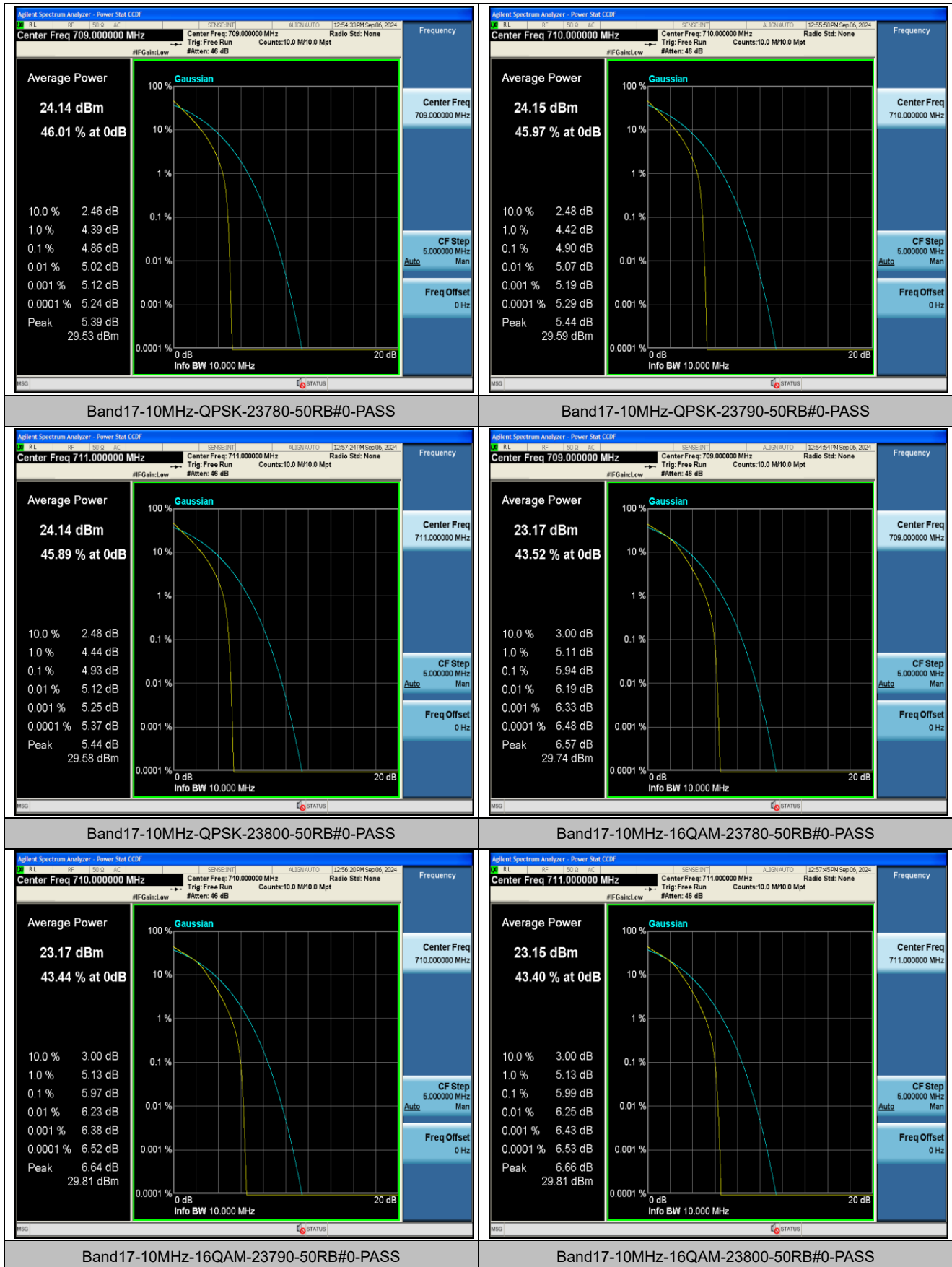
Band17	10MHz	16QAM	23800	1RB#49	23.27	22.82	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#0	21.94	21.49	34.77	PASS
Band17	10MHz	64QAM	23780	25RB#0	20.97	20.52	34.77	PASS
Band17	10MHz	64QAM	23780	50RB#0	21.01	20.56	34.77	PASS
Band17	10MHz	64QAM	23780	25RB#12	20.97	20.52	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#24	22.13	21.68	34.77	PASS
Band17	10MHz	64QAM	23780	25RB#25	20.89	20.44	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#49	21.92	21.47	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#0	22.09	21.64	34.77	PASS
Band17	10MHz	64QAM	23790	25RB#0	20.91	20.46	34.77	PASS
Band17	10MHz	64QAM	23790	50RB#0	20.91	20.46	34.77	PASS
Band17	10MHz	64QAM	23790	25RB#12	20.89	20.44	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#24	22.19	21.74	34.77	PASS
Band17	10MHz	64QAM	23790	25RB#25	20.99	20.54	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#49	21.97	21.52	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#0	22.07	21.62	34.77	PASS
Band17	10MHz	64QAM	23800	25RB#0	20.90	20.45	34.77	PASS
Band17	10MHz	64QAM	23800	50RB#0	20.91	20.46	34.77	PASS
Band17	10MHz	64QAM	23800	25RB#12	20.95	20.5	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#24	22.20	21.75	34.77	PASS
Band17	10MHz	64QAM	23800	25RB#25	20.98	20.53	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#49	22.00	21.55	34.77	PASS
Band17	10MHz	256QAM	23780	1RB#0	19.03	18.58	34.77	PASS
Band17	10MHz	256QAM	23780	25RB#0	18.87	18.42	34.77	PASS
Band17	10MHz	256QAM	23780	50RB#0	19.08	18.63	34.77	PASS
Band17	10MHz	256QAM	23780	25RB#12	19.11	18.66	34.77	PASS
Band17	10MHz	256QAM	23780	1RB#24	19.18	18.73	34.77	PASS
Band17	10MHz	256QAM	23780	25RB#25	19.02	18.57	34.77	PASS
Band17	10MHz	256QAM	23780	1RB#49	19.11	18.66	34.77	PASS
Band17	10MHz	256QAM	23790	1RB#0	19.17	18.72	34.77	PASS
Band17	10MHz	256QAM	23790	25RB#0	19.16	18.71	34.77	PASS
Band17	10MHz	256QAM	23790	50RB#0	19.09	18.64	34.77	PASS
Band17	10MHz	256QAM	23790	25RB#12	19.09	18.64	34.77	PASS
Band17	10MHz	256QAM	23790	1RB#24	19.24	18.79	34.77	PASS
Band17	10MHz	256QAM	23790	25RB#25	19.18	18.73	34.77	PASS
Band17	10MHz	256QAM	23790	1RB#49	19.03	18.58	34.77	PASS
Band17	10MHz	256QAM	23800	1RB#0	19.19	18.74	34.77	PASS
Band17	10MHz	256QAM	23800	25RB#0	19.10	18.65	34.77	PASS
Band17	10MHz	256QAM	23800	50RB#0	19.05	18.6	34.77	PASS
Band17	10MHz	256QAM	23800	25RB#12	19.02	18.57	34.77	PASS
Band17	10MHz	256QAM	23800	1RB#24	19.08	18.63	34.77	PASS
Band17	10MHz	256QAM	23800	25RB#25	18.87	18.42	34.77	PASS
Band17	10MHz	256QAM	23800	1RB#49	19.17	18.72	34.77	PASS

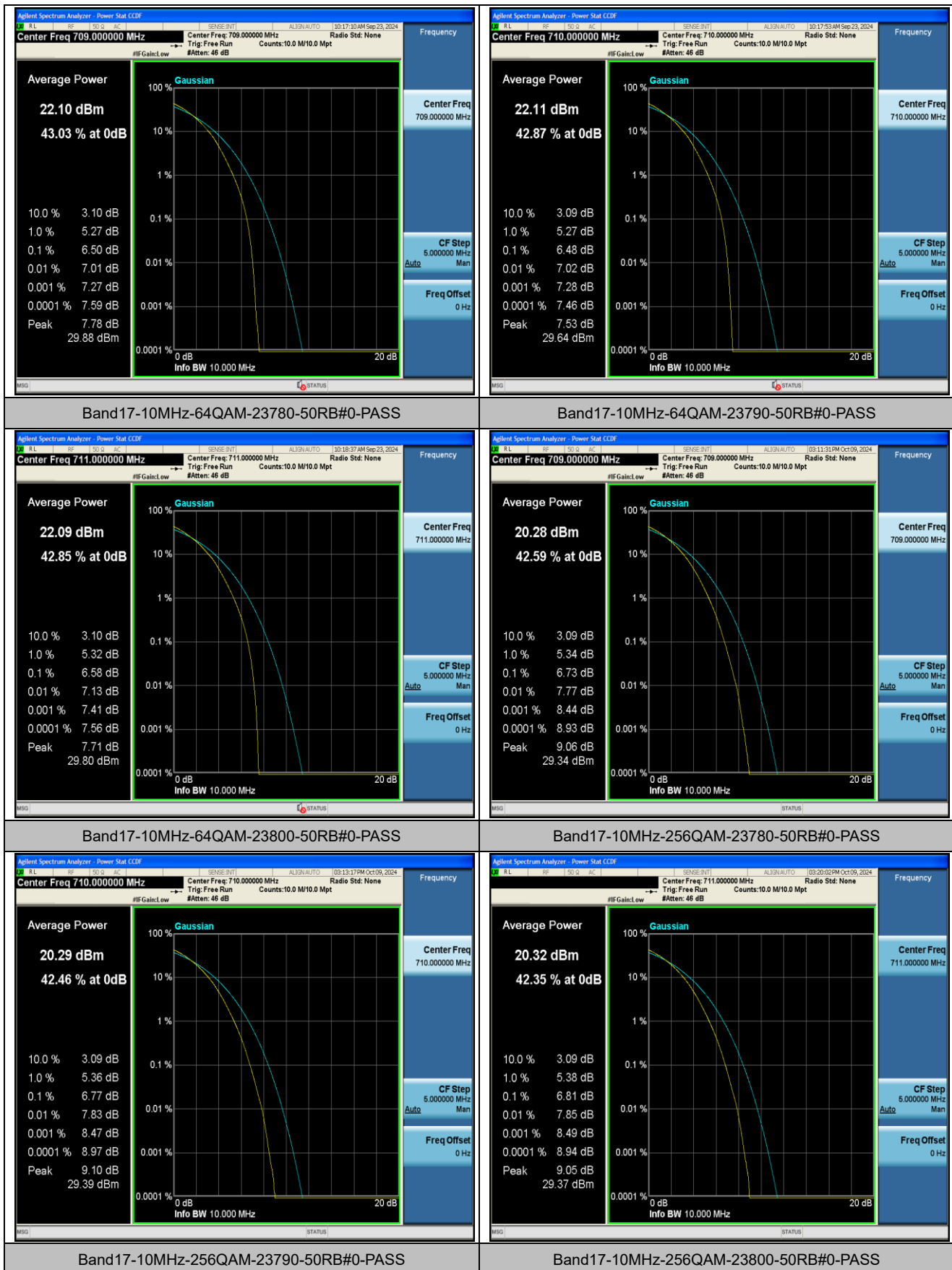
Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dB)	Limit (dB)	Verdict
Band17	10MHz	QPSK	23780	50RB#0	4.86	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	4.90	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	4.93	13	PASS
Band17	10MHz	16QAM	23780	50RB#0	5.94	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	5.97	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	5.99	13	PASS
Band17	10MHz	64QAM	23780	50RB#0	6.50	13	PASS
Band17	10MHz	64QAM	23790	50RB#0	6.48	13	PASS
Band17	10MHz	64QAM	23800	50RB#0	6.58	13	PASS
Band17	10MHz	256QAM	23780	50RB#0	6.73	13	PASS
Band17	10MHz	256QAM	23790	50RB#0	6.77	13	PASS
Band17	10MHz	256QAM	23800	50RB#0	6.81	13	PASS

Test Graphs



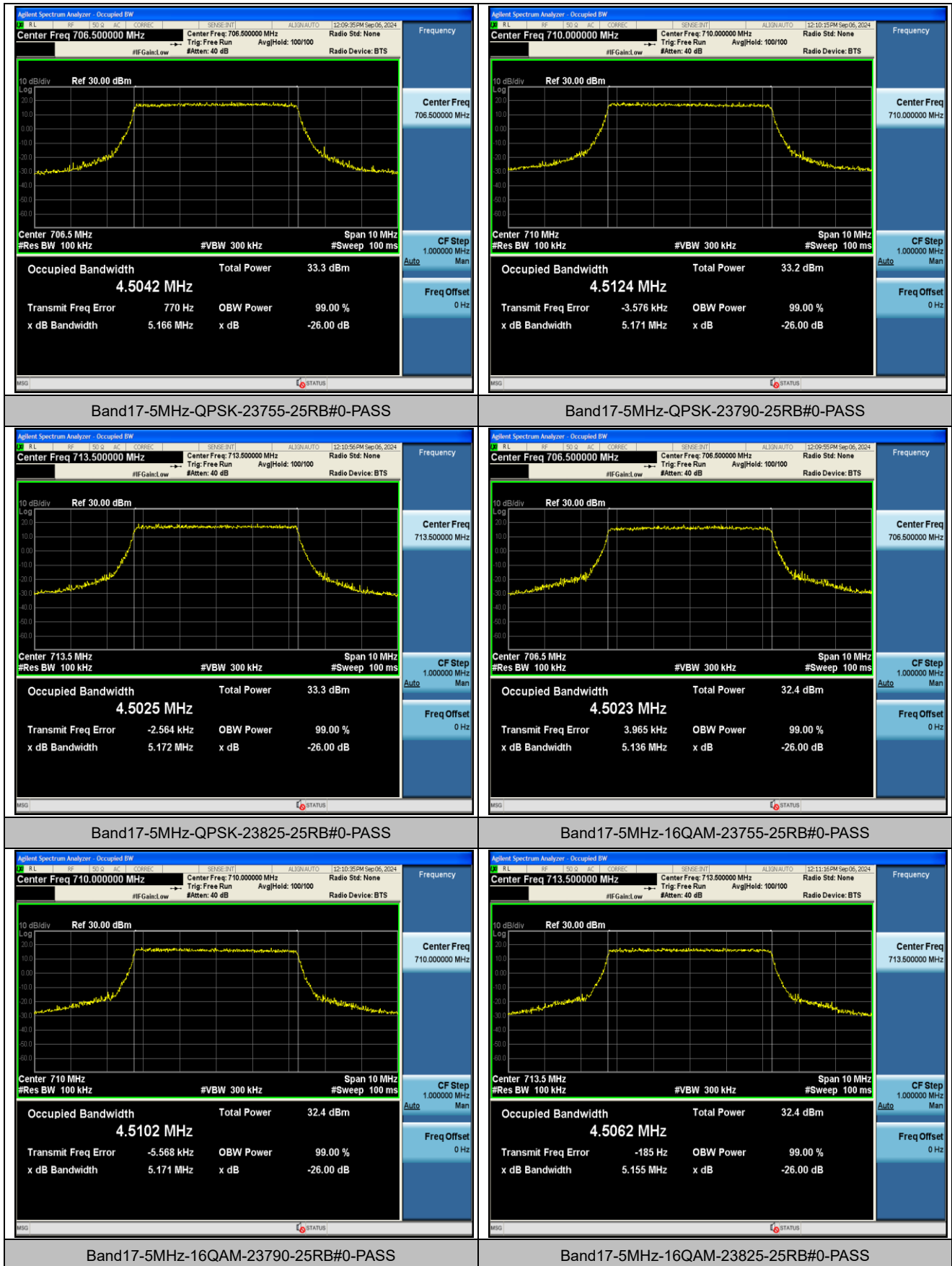


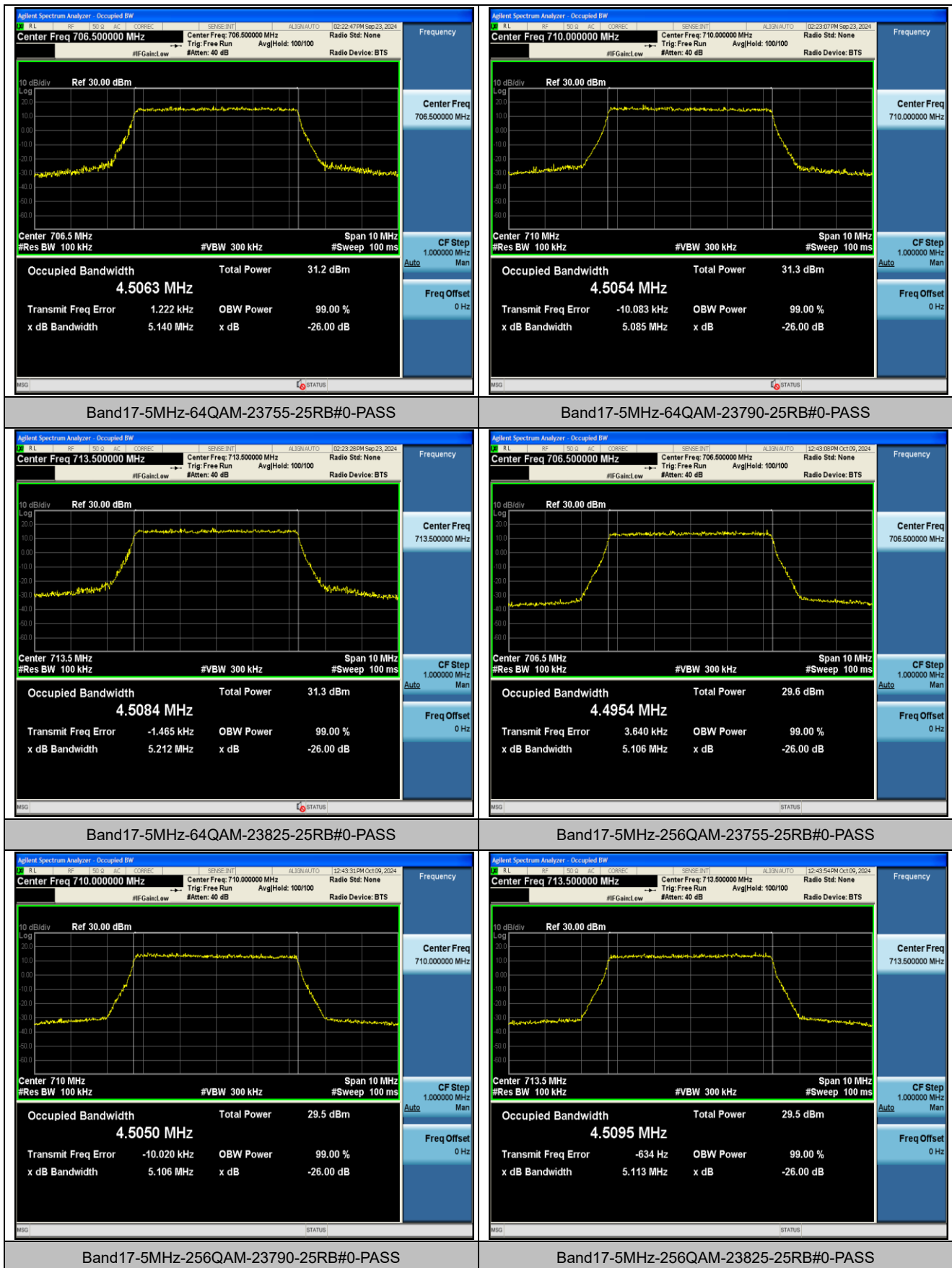
26dB Bandwidth and Occupied Bandwidth

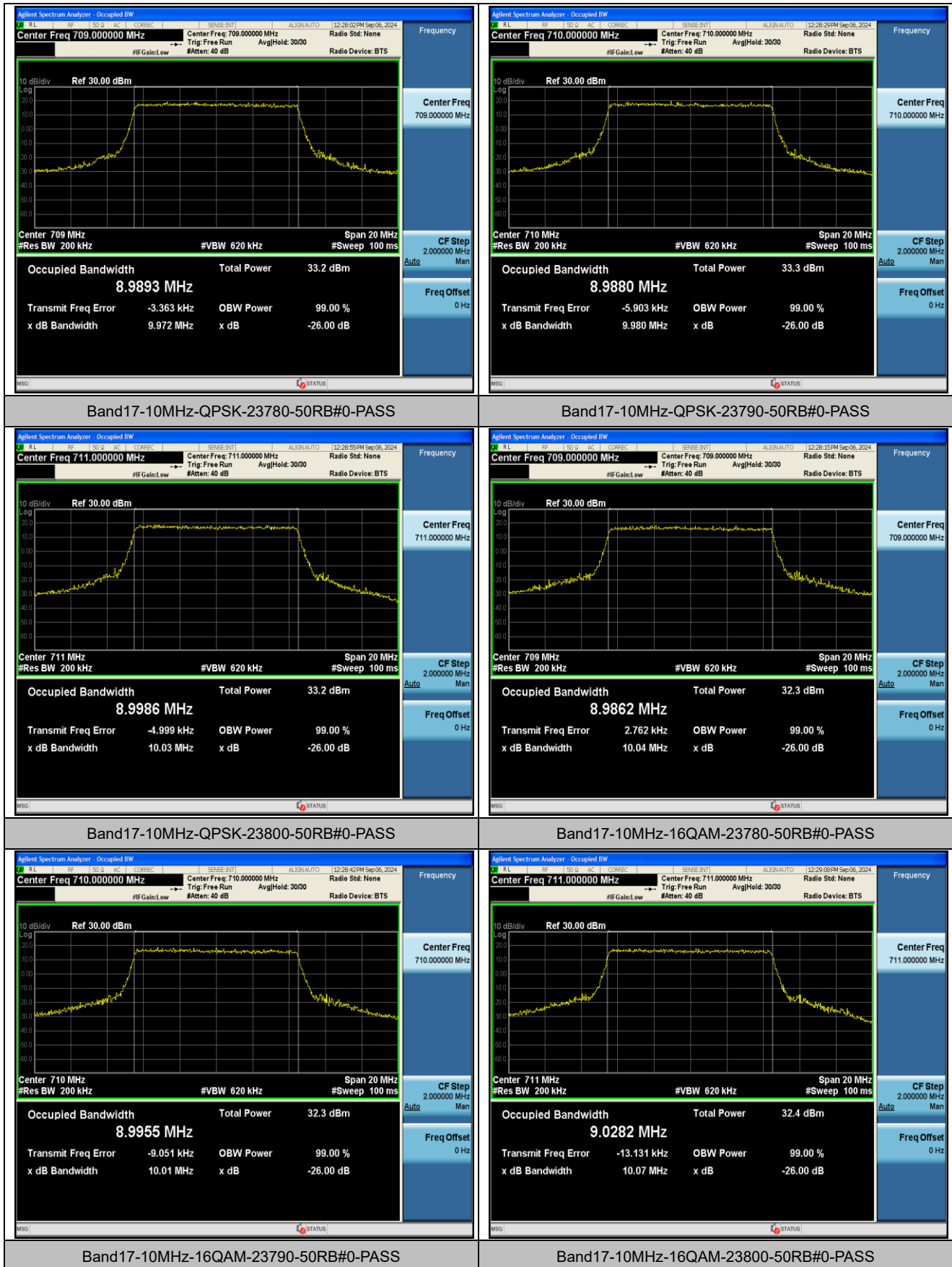
Test Result

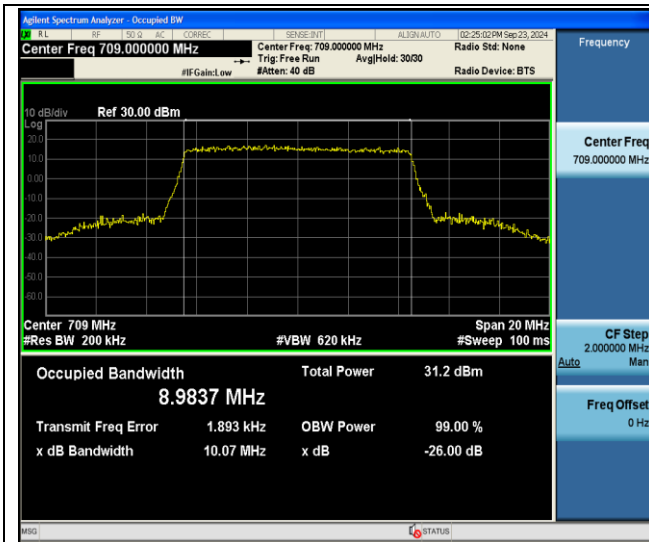
Band	Bandwidth	Modulation	Channel	RB Configuration	OBW (MHz)	26dB EBW (MHz)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	4.5042	5.166	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.5124	5.171	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.5025	5.172	PASS
Band17	5MHz	16QAM	23755	25RB#0	4.5023	5.136	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.5102	5.171	PASS
Band17	5MHz	16QAM	23825	25RB#0	4.5062	5.155	PASS
Band17	5MHz	64QAM	23755	25RB#0	4.5063	5.140	PASS
Band17	5MHz	64QAM	23790	25RB#0	4.5054	5.085	PASS
Band17	5MHz	64QAM	23825	25RB#0	4.5084	5.212	PASS
Band17	5MHz	256QAM	23755	25RB#0	4.4954	5.106	PASS
Band17	5MHz	256QAM	23790	25RB#0	4.5050	5.106	PASS
Band17	5MHz	256QAM	23825	25RB#0	4.5095	5.113	PASS
Band17	10MHz	QPSK	23780	50RB#0	8.9893	9.972	PASS
Band17	10MHz	QPSK	23790	50RB#0	8.9880	9.980	PASS
Band17	10MHz	QPSK	23800	50RB#0	8.9986	10.03	PASS
Band17	10MHz	16QAM	23780	50RB#0	8.9862	10.04	PASS
Band17	10MHz	16QAM	23790	50RB#0	8.9955	10.01	PASS
Band17	10MHz	16QAM	23800	50RB#0	9.0282	10.07	PASS
Band17	10MHz	64QAM	23780	50RB#0	8.9837	10.07	PASS
Band17	10MHz	64QAM	23790	50RB#0	9.0221	10.03	PASS
Band17	10MHz	64QAM	23800	50RB#0	8.9991	9.982	PASS
Band17	10MHz	256QAM	23780	50RB#0	8.9809	9.851	PASS
Band17	10MHz	256QAM	23790	50RB#0	9.0130	10.13	PASS
Band17	10MHz	256QAM	23800	50RB#0	9.0068	10.02	PASS

Test Graphs

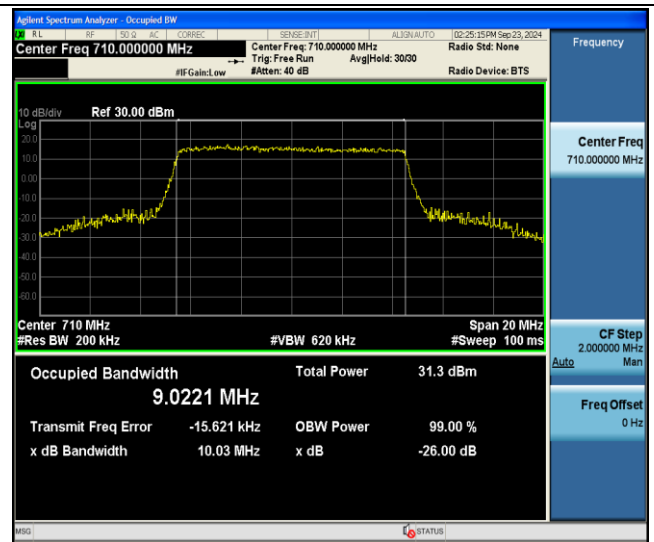




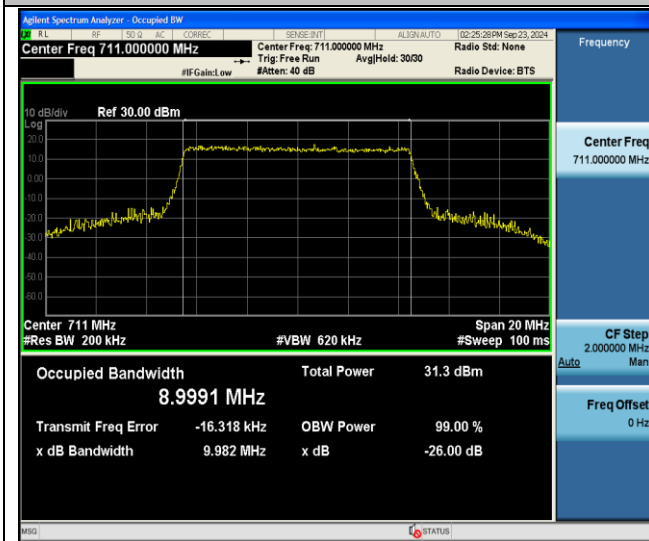




Band17-10MHz-64QAM-23780-50RB#0-PASS



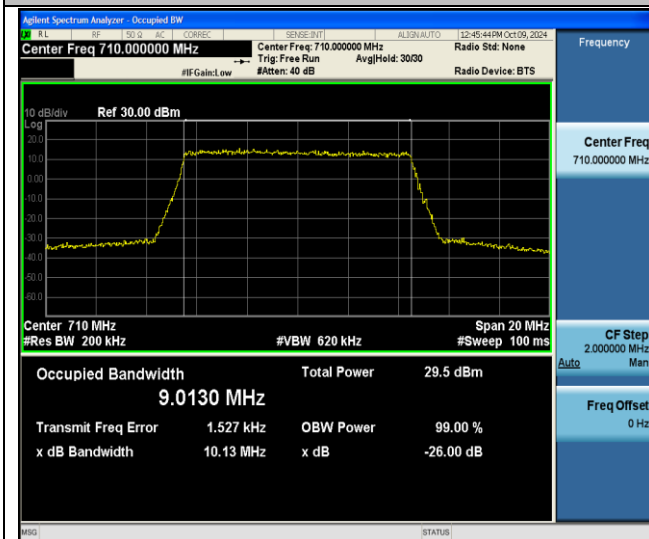
Band17-10MHz-64QAM-23790-50RB#0-PASS



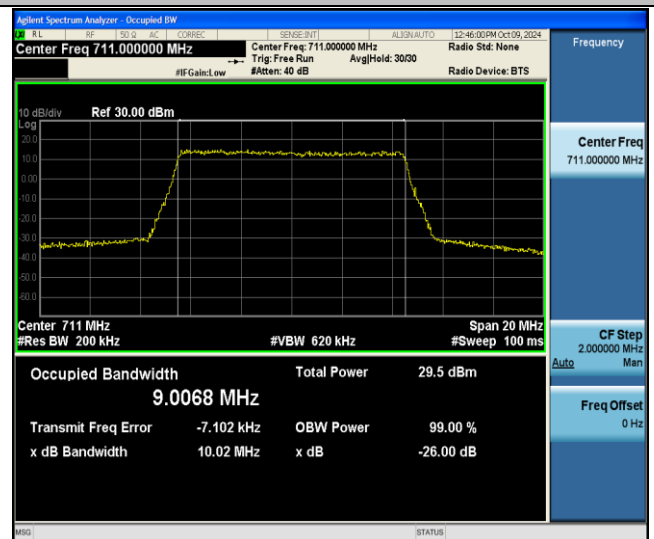
Band17-10MHz-64QAM-23800-50RB#0-PASS



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



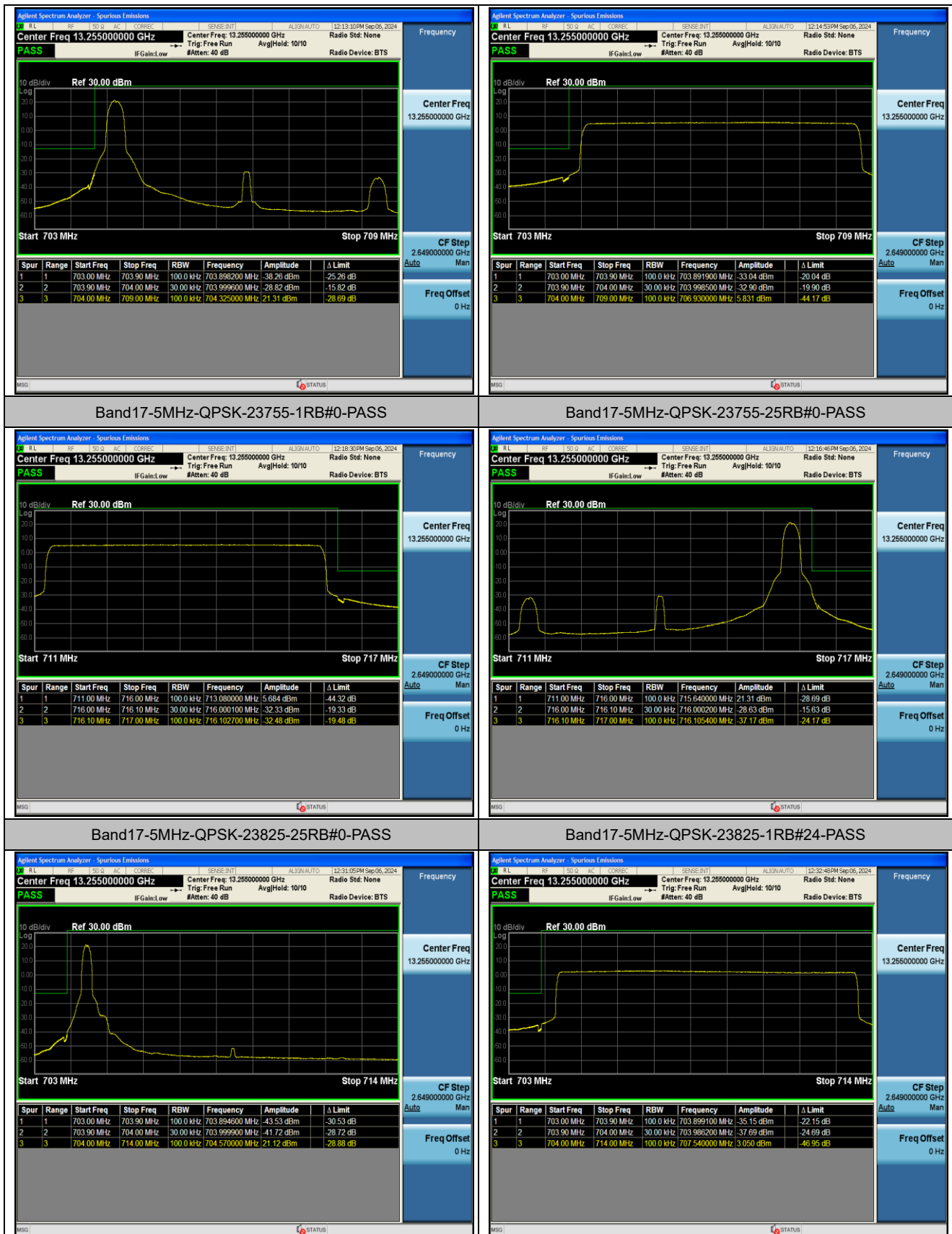
Band17-10MHz-256QAM-23790-50RB#0-PASS

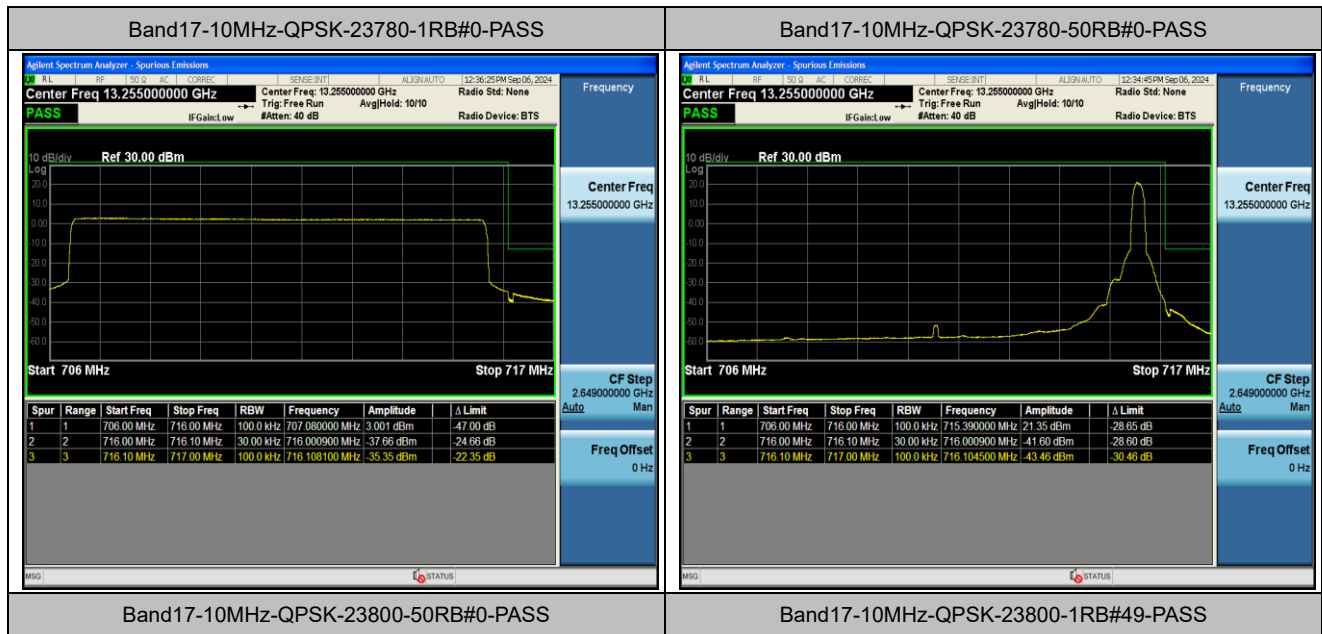


Band17-10MHz-256QAM-23800-50RB#0-PASS

Band Edge

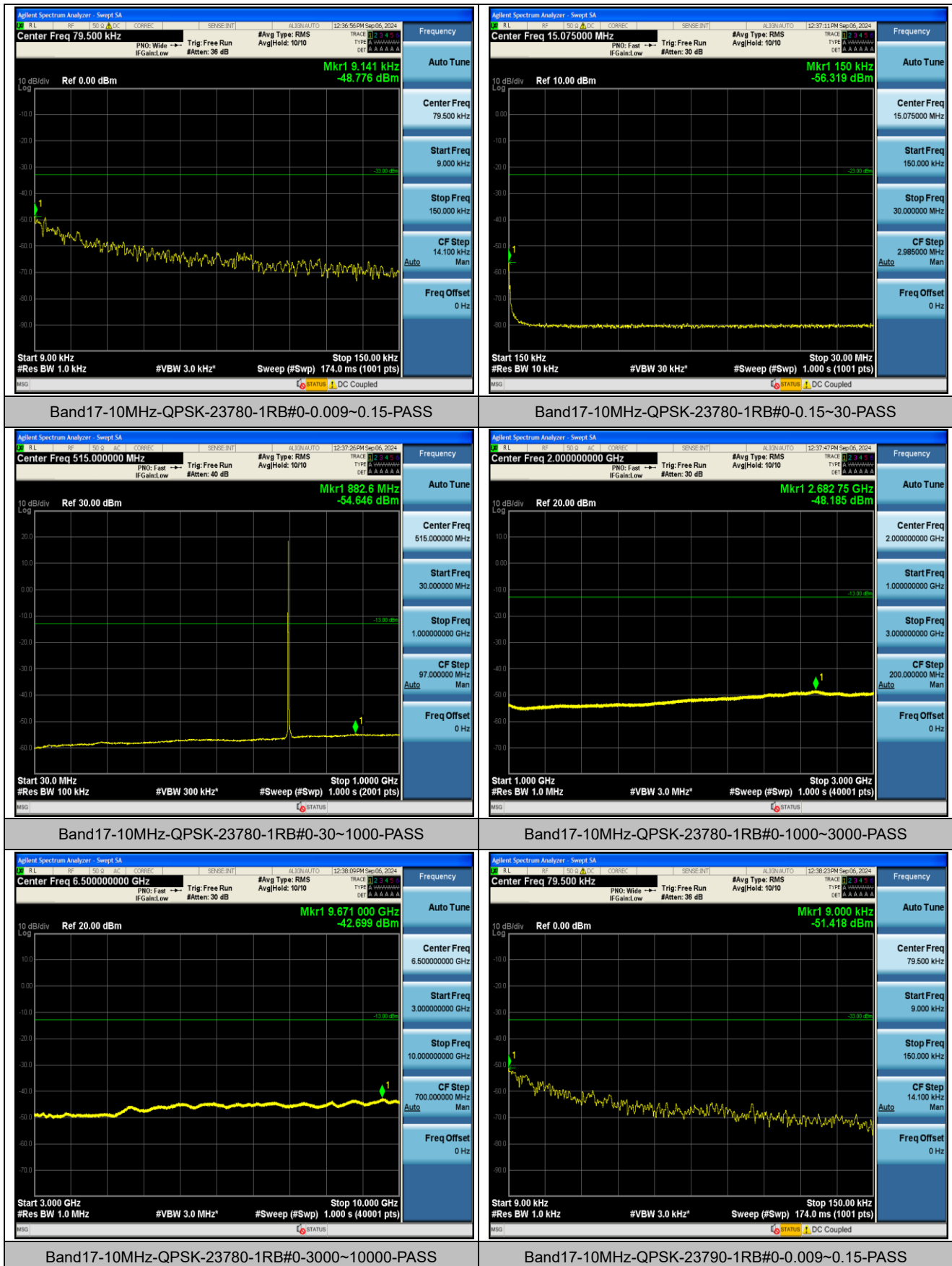
Test Graphs

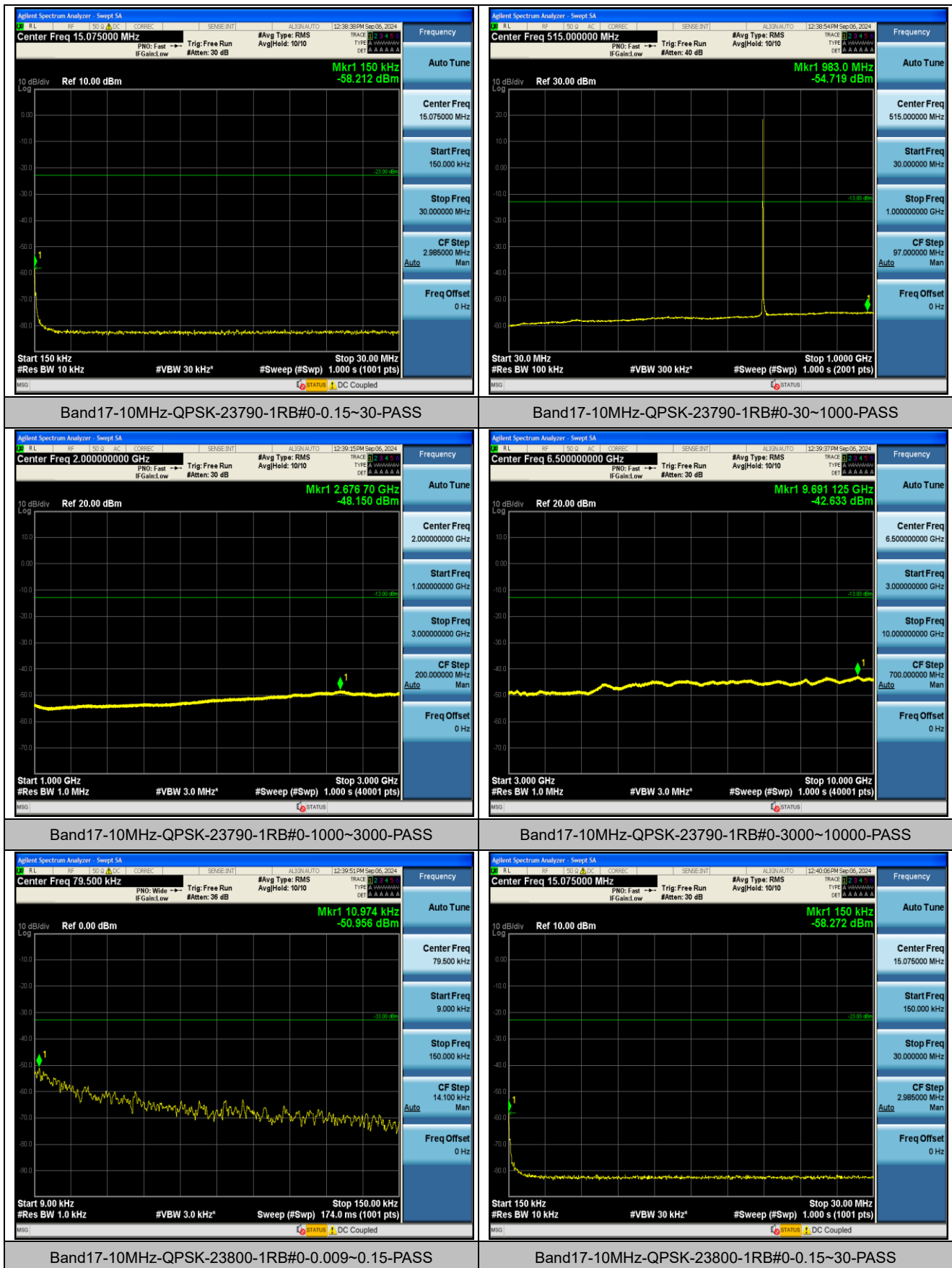


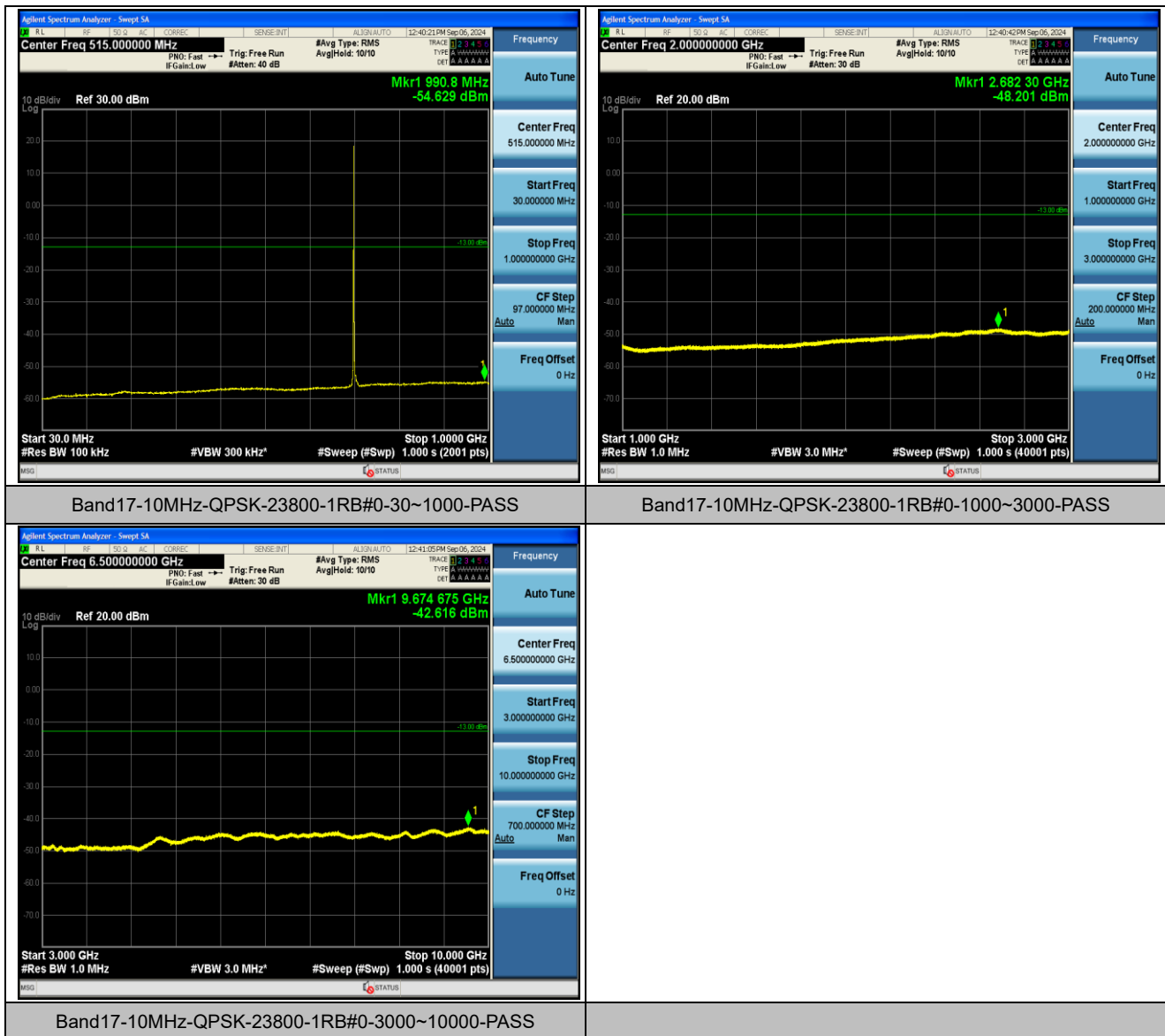


Conducted Spurious Emission

Test Graphs







Band17-10MHz-QPSK-23800-1RB#0-30~1000-PASS

Band17-10MHz-QPSK-23800-1RB#0-1000~3000-PASS

Band17-10MHz-QPSK-23800-1RB#0-3000~10000-PASS

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	0.50	0.000704	PASS
Band17	10MHz	QPSK	23790	50RB#0	VL	NT	-2.00	-0.002817	PASS
Band17	10MHz	QPSK	23790	50RB#0	VH	NT	-0.60	-0.000845	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band17	10MHz	QPSK	23790	50RB#0	NV	-10	-0.10	-0.000141	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	0	-1.80	-0.002535	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	10	-0.50	-0.000704	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	20	-1.30	-0.001831	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	30	0.10	0.000141	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	40	-0.60	-0.000845	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	50	0.40	0.000563	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-30	-1.70	-0.002394	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-20	1.30	0.001831	PASS

~The End~