

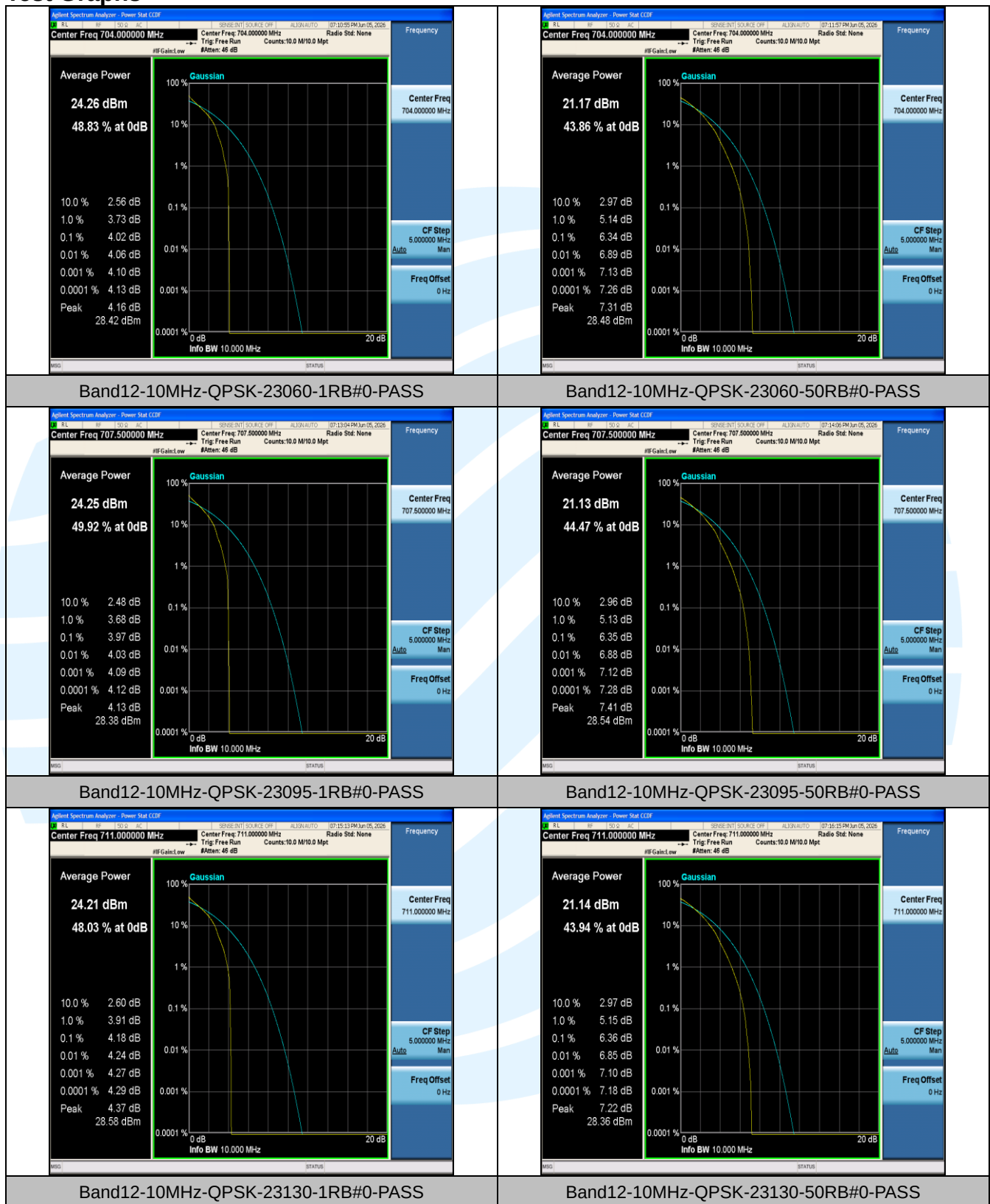
APPENDIX C LTE RF TEST DATA

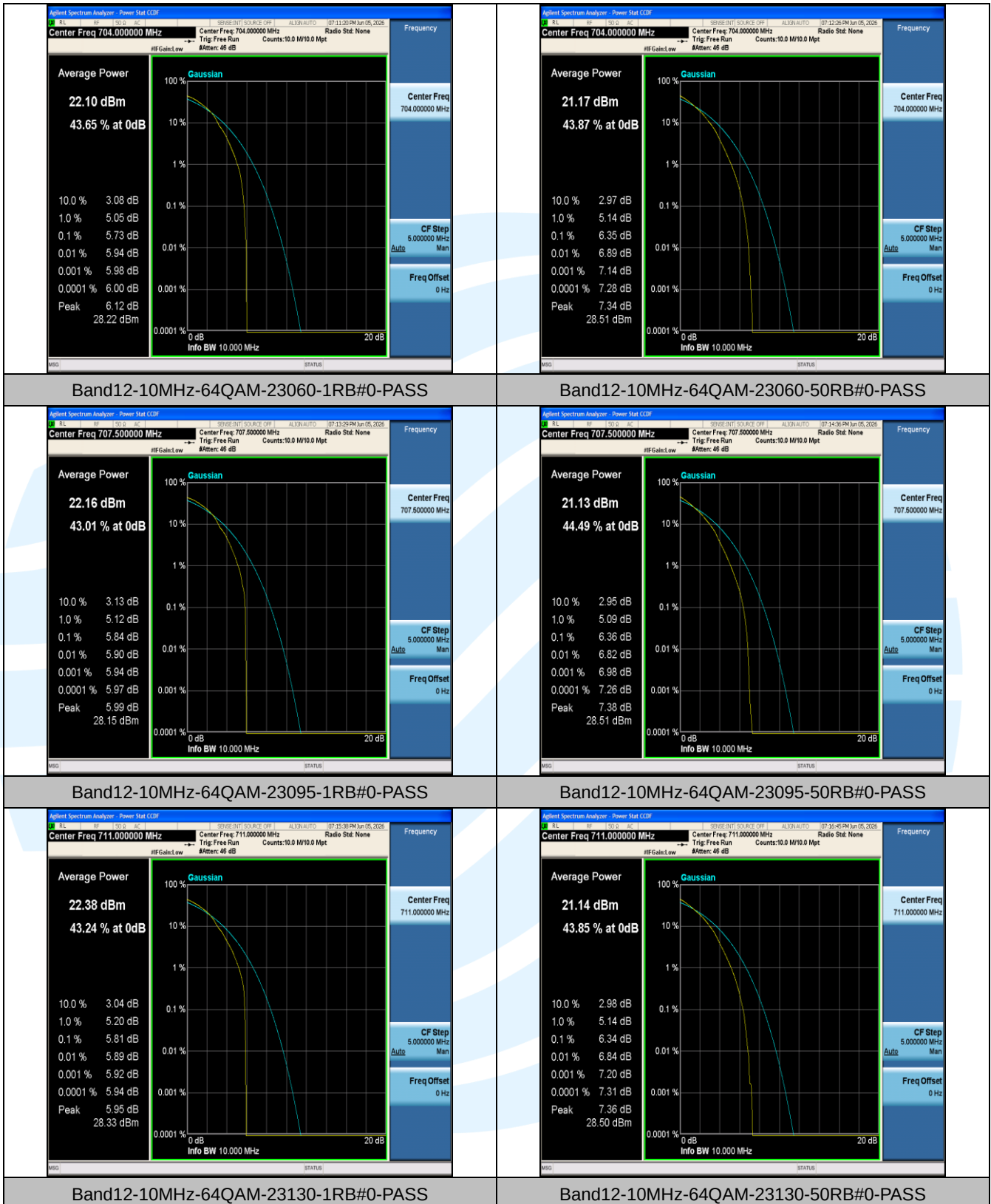
C.1 PEAK-TO-AVERAGE RATIO(CCDF)

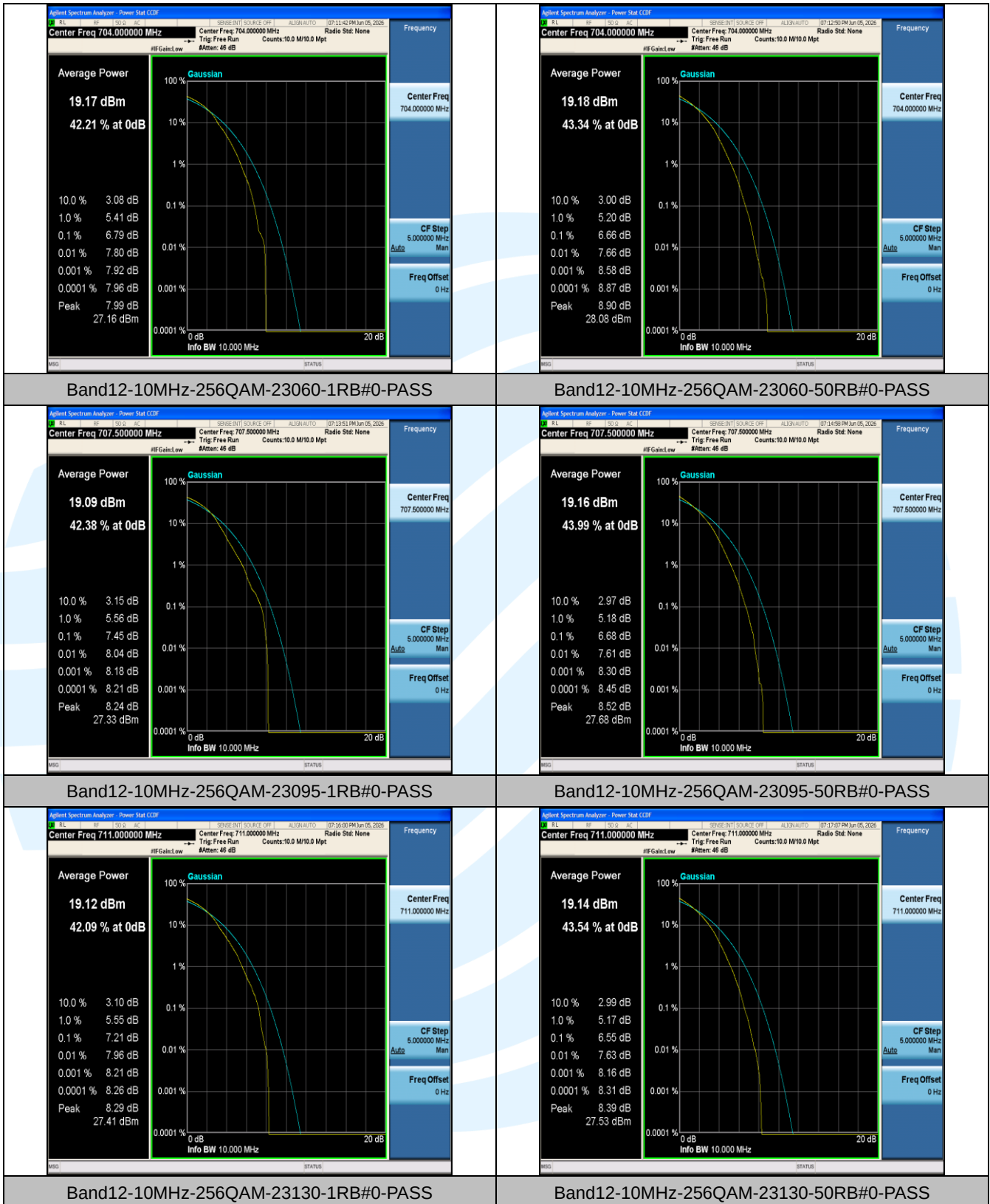
Test Result

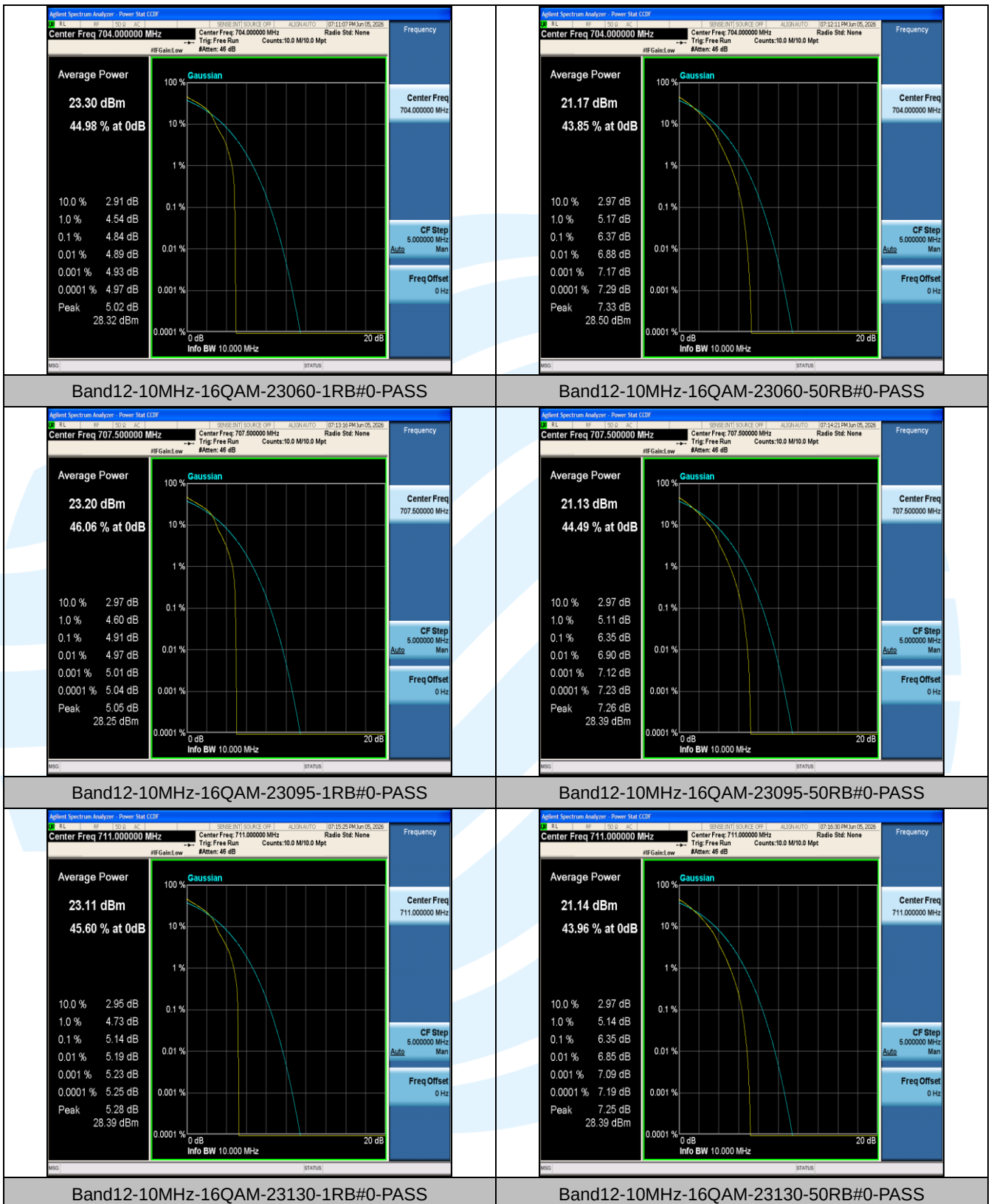
Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dB)	Limit (dB)	Verdict
Band12	10MHz	QPSK	23060	1RB#0	4.02	13	PASS
Band12	10MHz	QPSK	23060	50RB#0	6.34	13	PASS
Band12	10MHz	QPSK	23095	1RB#0	3.97	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	6.35	13	PASS
Band12	10MHz	QPSK	23130	1RB#0	4.18	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	6.36	13	PASS
Band12	10MHz	64QAM	23060	1RB#0	5.73	13	PASS
Band12	10MHz	64QAM	23060	50RB#0	6.35	13	PASS
Band12	10MHz	64QAM	23095	1RB#0	5.84	13	PASS
Band12	10MHz	64QAM	23095	50RB#0	6.36	13	PASS
Band12	10MHz	64QAM	23130	1RB#0	5.81	13	PASS
Band12	10MHz	64QAM	23130	50RB#0	6.34	13	PASS
Band12	10MHz	256QAM	23060	1RB#0	6.79	13	PASS
Band12	10MHz	256QAM	23060	50RB#0	6.66	13	PASS
Band12	10MHz	256QAM	23095	1RB#0	7.45	13	PASS
Band12	10MHz	256QAM	23095	50RB#0	6.68	13	PASS
Band12	10MHz	256QAM	23130	1RB#0	7.21	13	PASS
Band12	10MHz	256QAM	23130	50RB#0	6.55	13	PASS
Band12	10MHz	16QAM	23060	1RB#0	4.84	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	6.37	13	PASS
Band12	10MHz	16QAM	23095	1RB#0	4.91	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	6.35	13	PASS
Band12	10MHz	16QAM	23130	1RB#0	5.14	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	6.35	13	PASS

Test Graphs







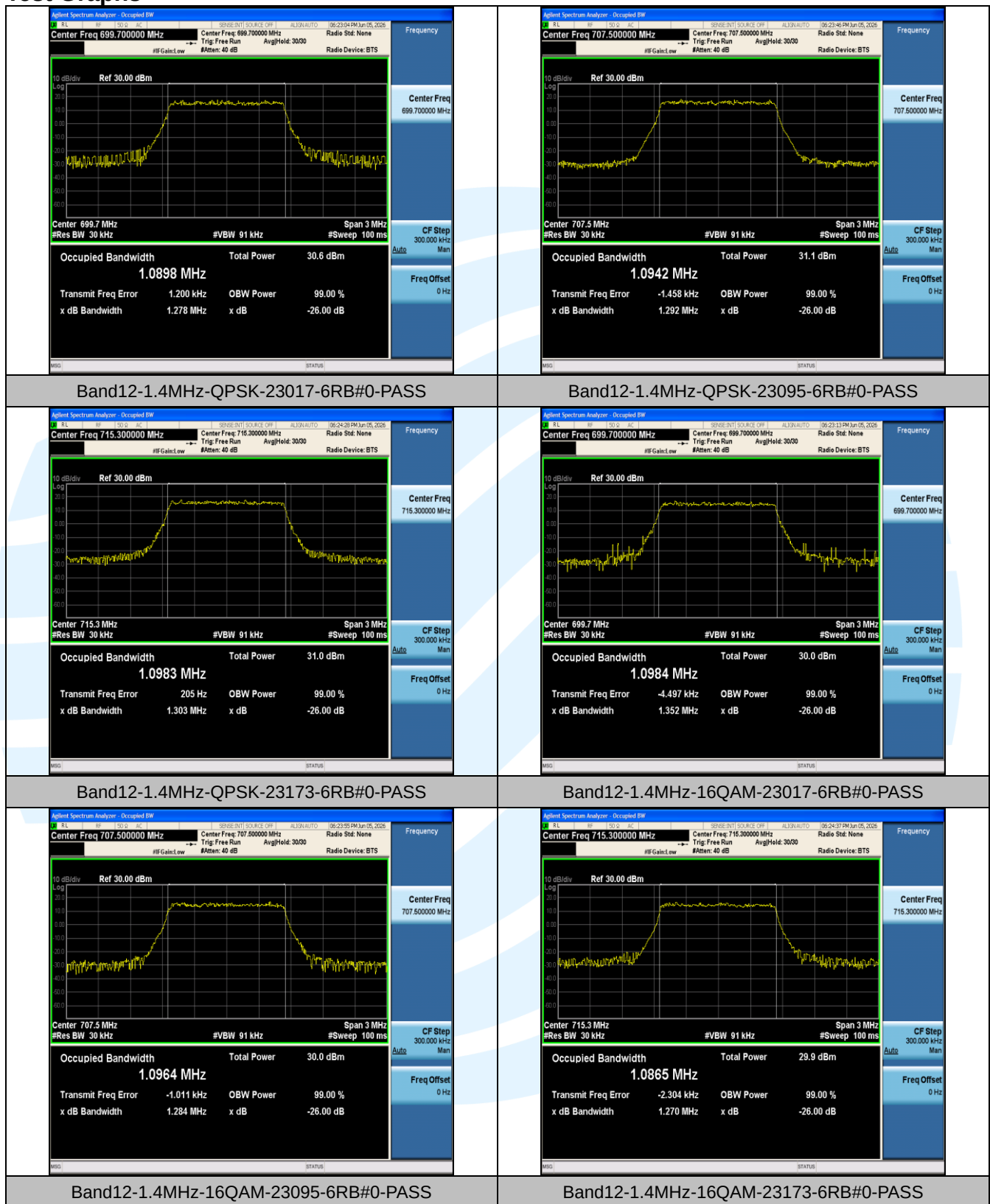


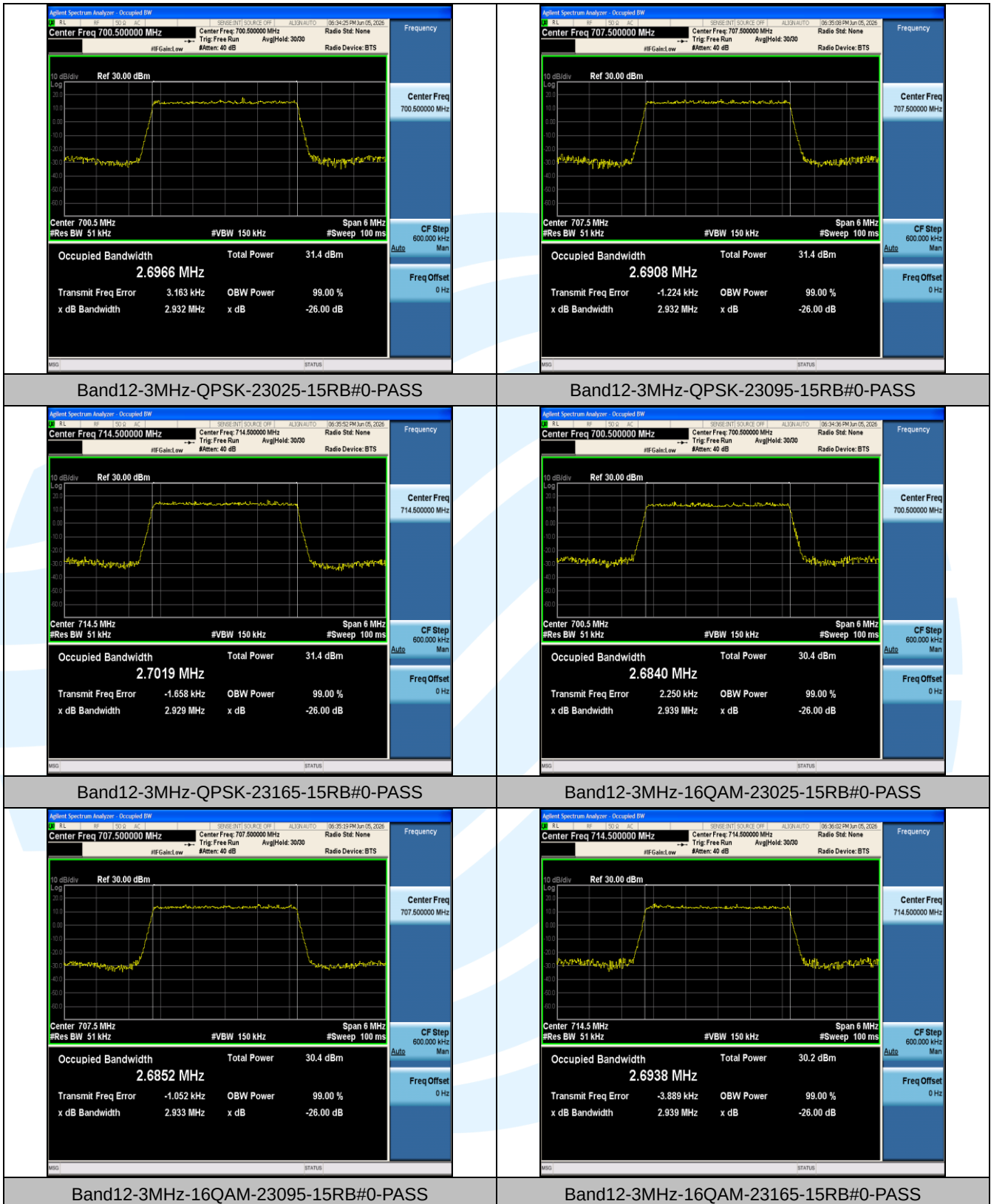
C.2 26DB BANDWIDTH AND OCCUPIED BANDWIDTH

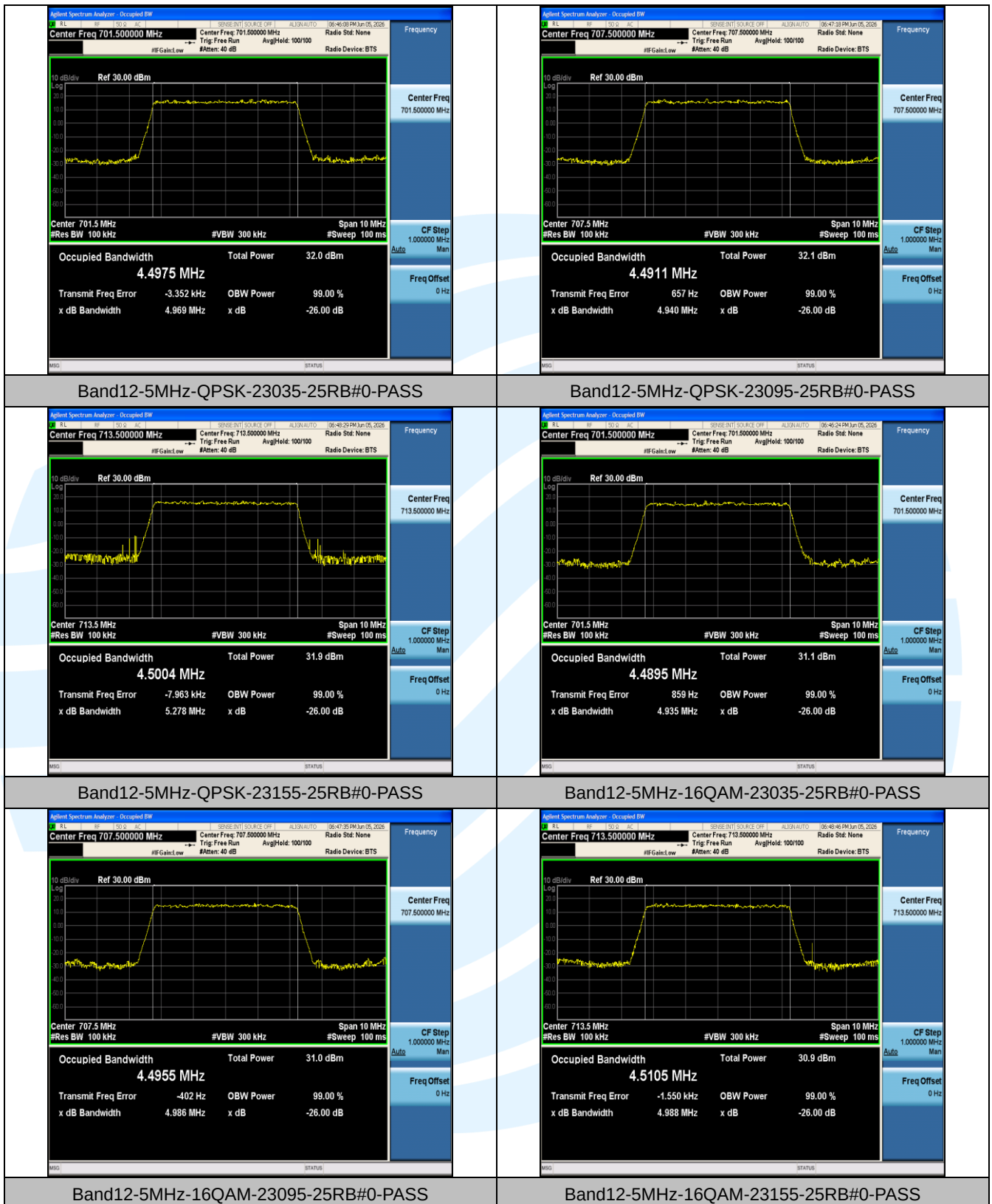
Test Result

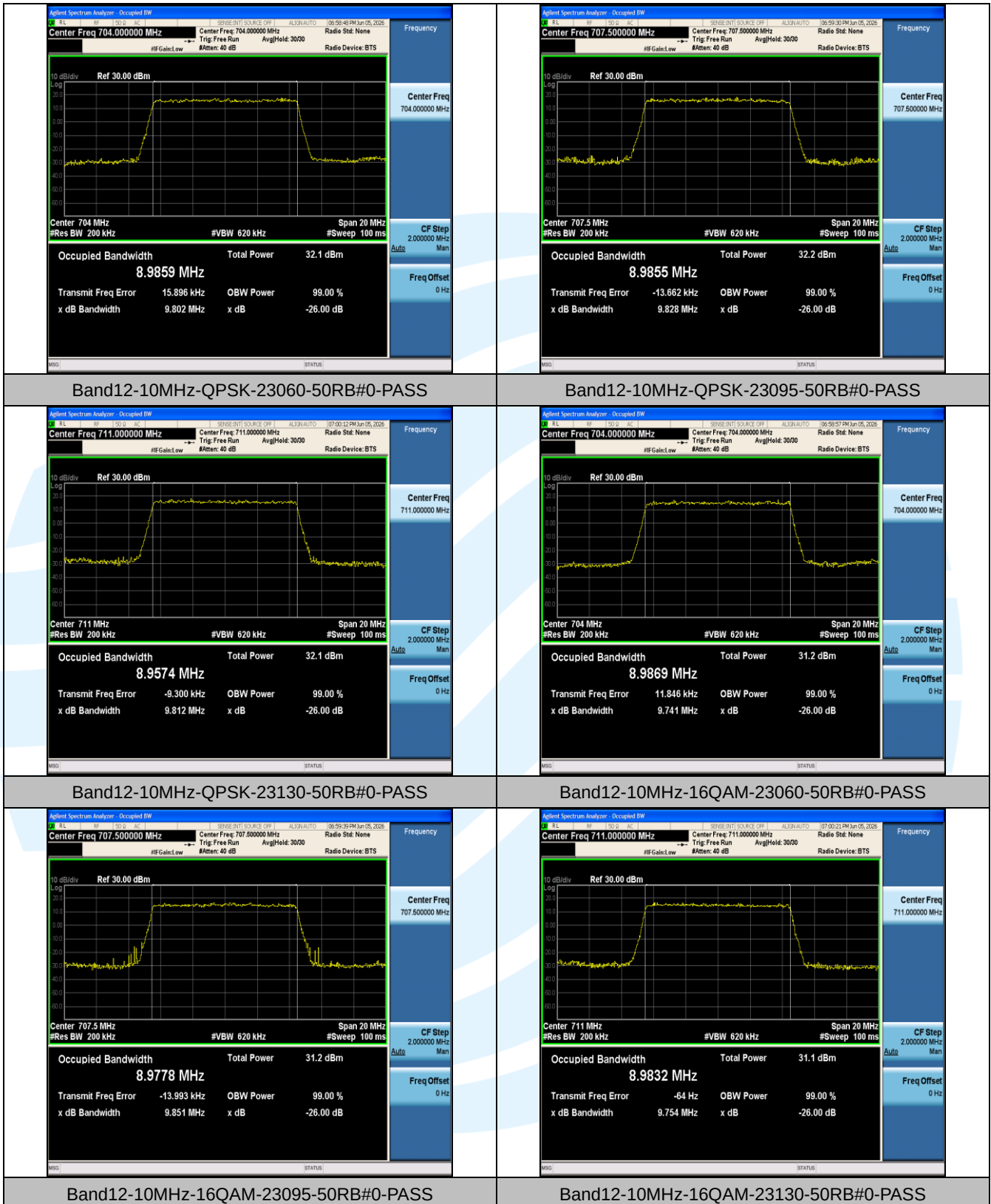
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.0898	1.278	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.0942	1.292	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.0983	1.303	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.0984	1.352	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.0964	1.284	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.0865	1.270	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.6966	2.932	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.6908	2.932	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.7019	2.929	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.6840	2.939	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.6852	2.933	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.6938	2.939	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.4975	4.969	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.4911	4.940	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.5004	5.278	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.4895	4.935	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.4955	4.986	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.5105	4.988	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.9859	9.802	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.9855	9.828	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.9574	9.812	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.9869	9.741	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.9778	9.851	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.9832	9.754	PASS

Test Graphs





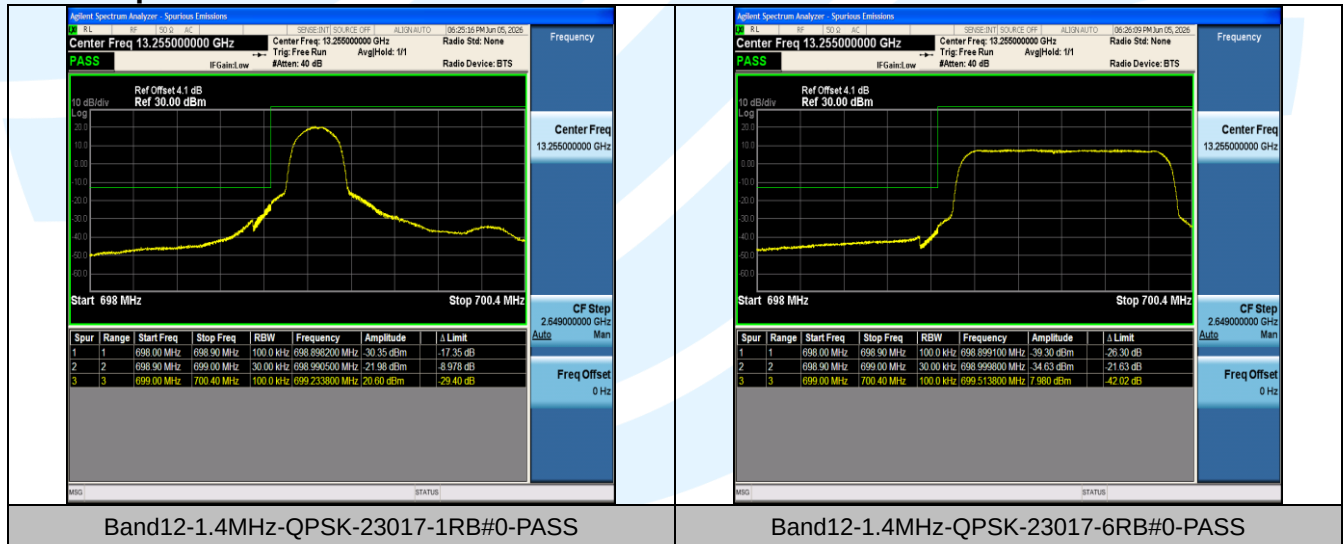


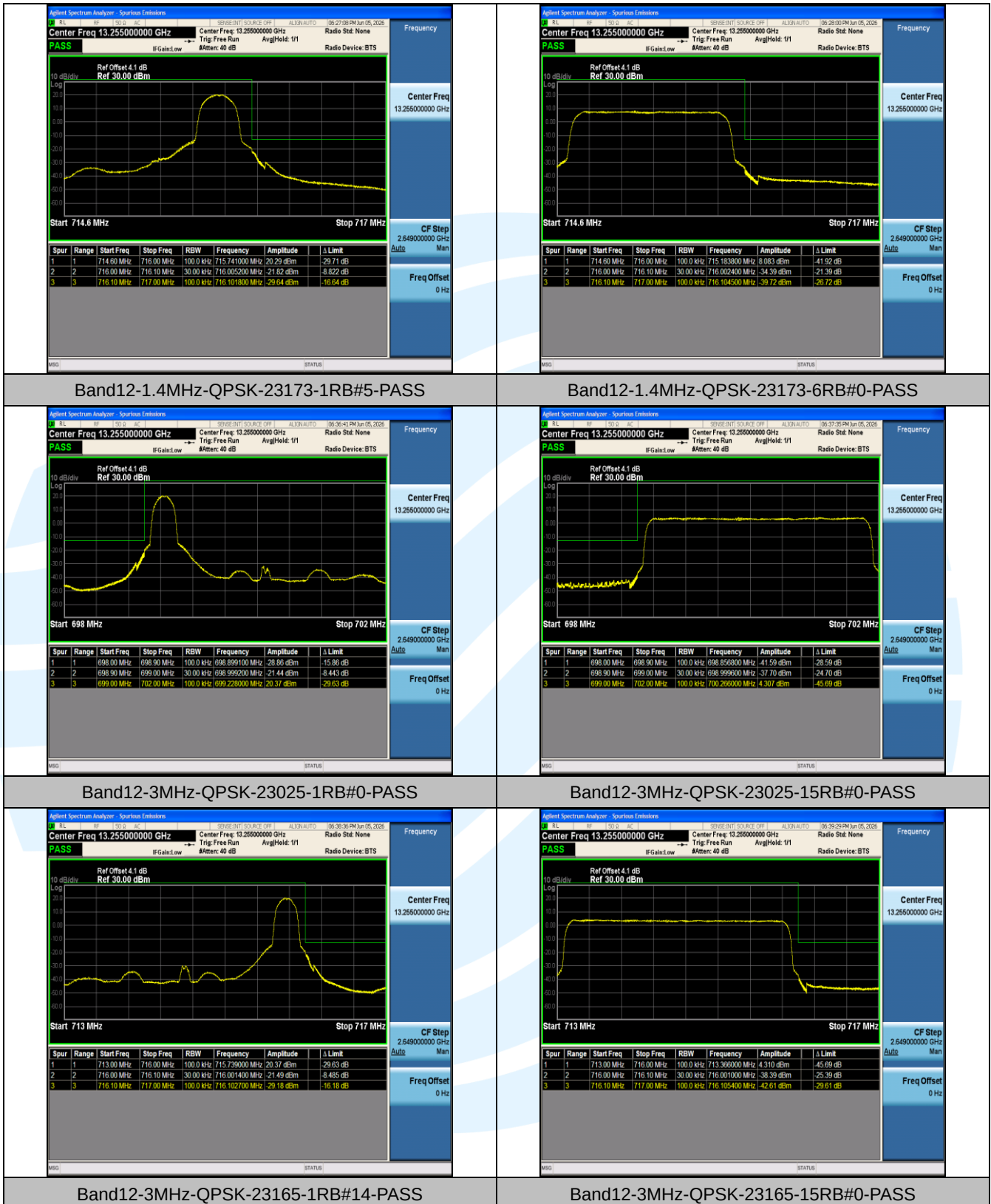


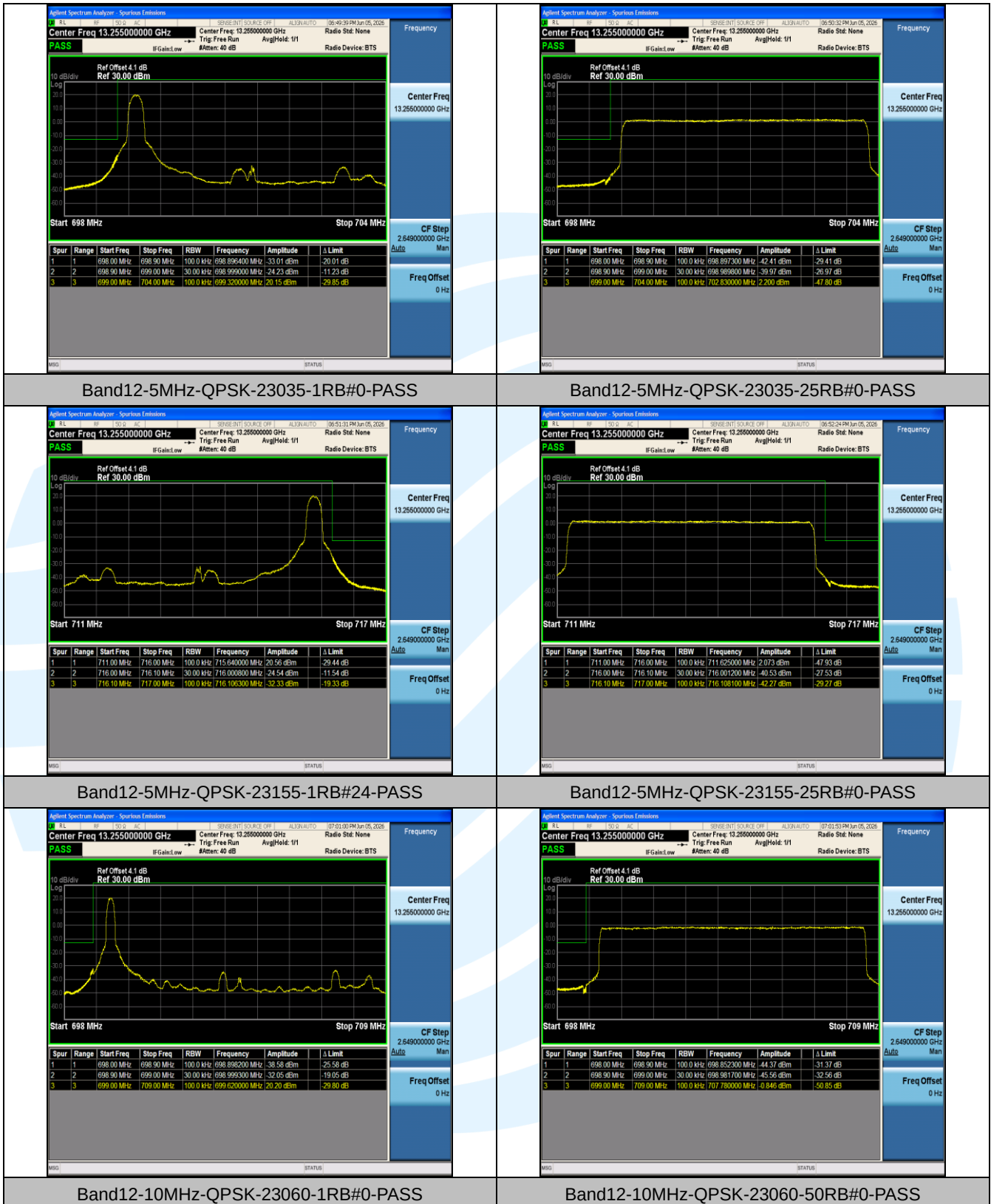
C.3 BAND EDGE Test Result

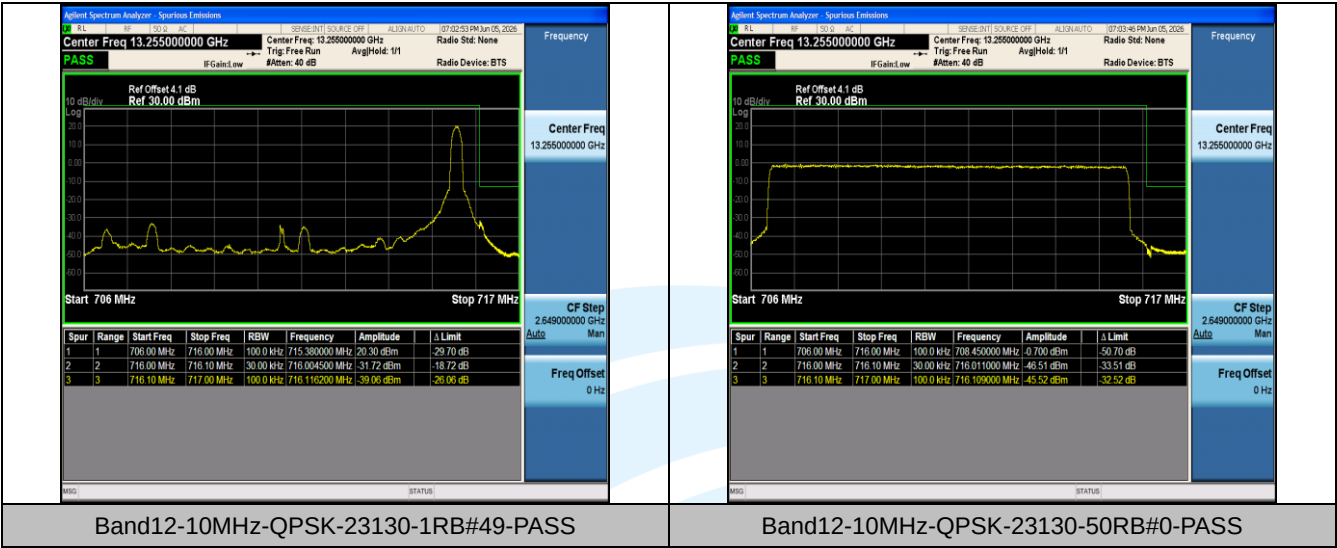
Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	-21.98	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	-34.63	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	-21.82	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	-34.39	PASS
Band12	3MHz	QPSK	23025	1RB#0	-21.44	PASS
Band12	3MHz	QPSK	23025	15RB#0	-37.70	PASS
Band12	3MHz	QPSK	23165	1RB#14	-21.49	PASS
Band12	3MHz	QPSK	23165	15RB#0	-38.39	PASS
Band12	5MHz	QPSK	23035	1RB#0	-24.23	PASS
Band12	5MHz	QPSK	23035	25RB#0	-39.97	PASS
Band12	5MHz	QPSK	23155	1RB#24	-24.54	PASS
Band12	5MHz	QPSK	23155	25RB#0	-40.53	PASS
Band12	10MHz	QPSK	23060	1RB#0	-32.05	PASS
Band12	10MHz	QPSK	23060	50RB#0	-44.37	PASS
Band12	10MHz	QPSK	23130	1RB#49	-31.72	PASS
Band12	10MHz	QPSK	23130	50RB#0	-45.52	PASS

Test Graphs







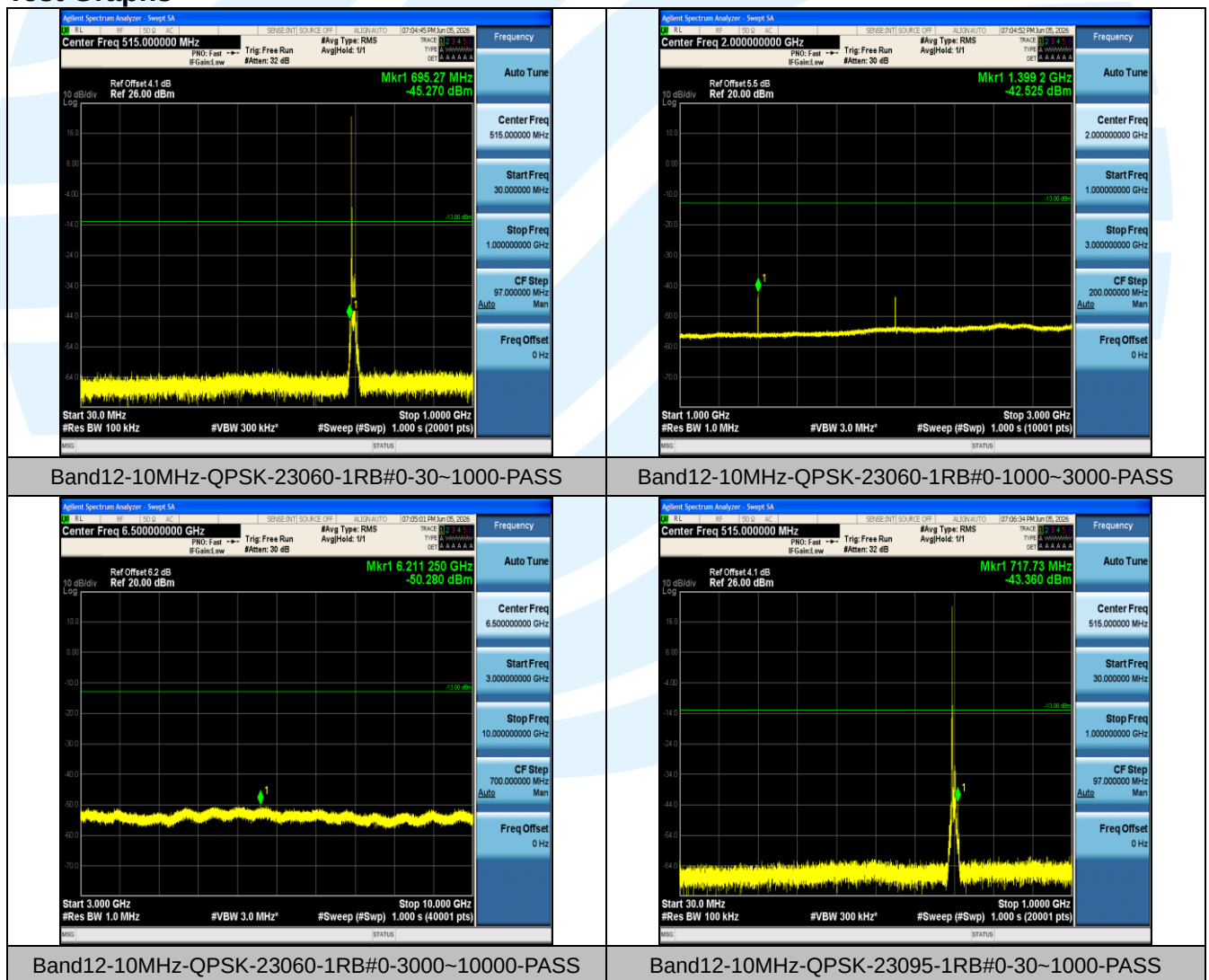


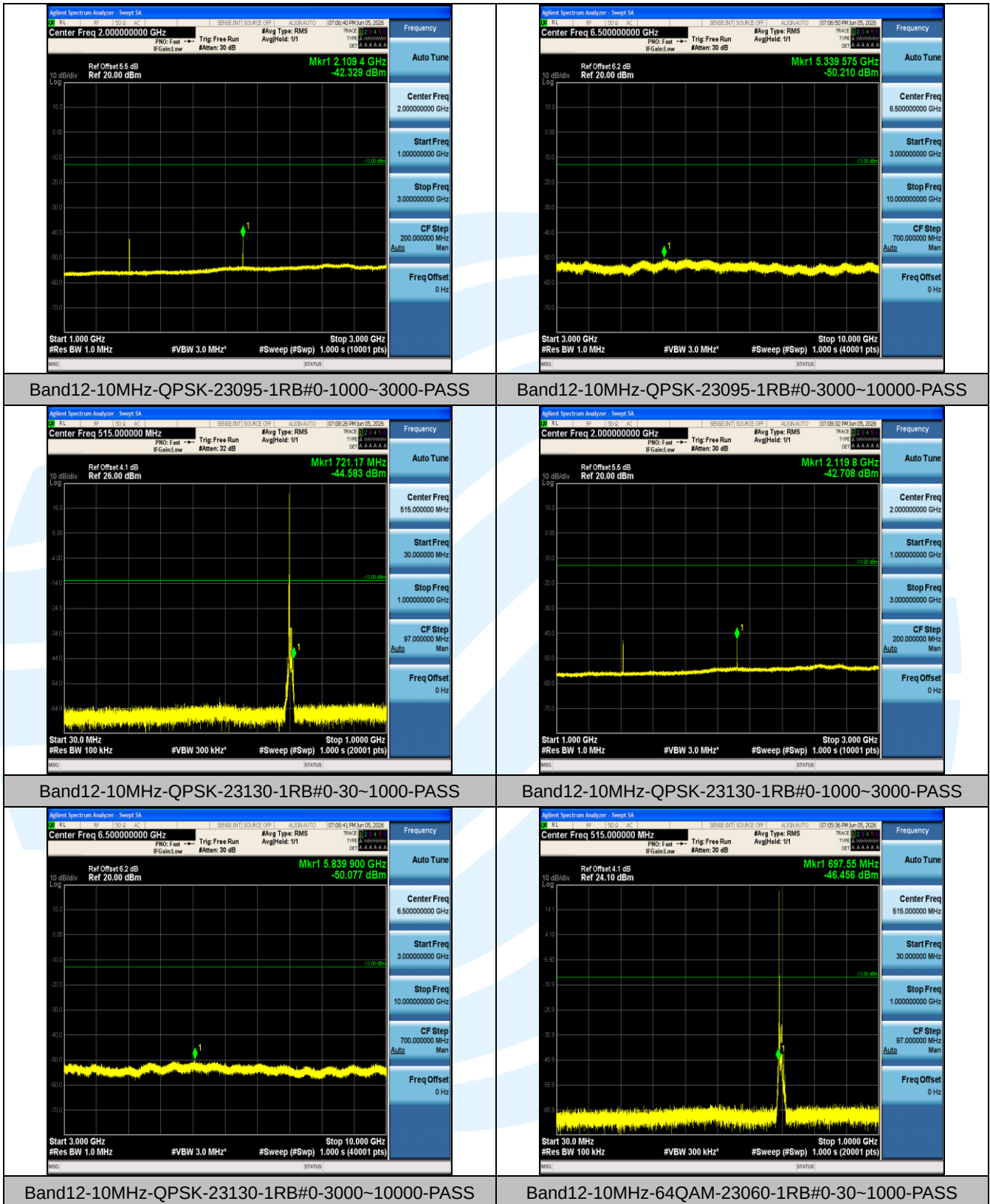
C.4 CONDUCTED SPURIOUS EMISSION

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range (MHz)	Result (dBm)	Verdict
Band12	10MHz	QPSK	23060	1RB#0	30~1000	-45.27	PASS
Band12	10MHz	QPSK	23060	1RB#0	1000~3000	-42.53	PASS
Band12	10MHz	QPSK	23060	1RB#0	3000~10000	-50.28	PASS
Band12	10MHz	QPSK	23095	1RB#0	30~1000	-43.36	PASS
Band12	10MHz	QPSK	23095	1RB#0	1000~3000	-42.33	PASS
Band12	10MHz	QPSK	23095	1RB#0	3000~10000	-50.21	PASS
Band12	10MHz	QPSK	23130	1RB#0	30~1000	-44.58	PASS
Band12	10MHz	QPSK	23130	1RB#0	1000~3000	-42.71	PASS
Band12	10MHz	QPSK	23130	1RB#0	3000~10000	-50.08	PASS

Test Graphs





C.5 FREQUENCY STABILITY

Test Result

Voltage										
Band	BW	Modulation	Channel	RB Configure	Voltage [Vdc]	Temp. (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band12	10MHz	QPSK	23095	50RB#0	VN	NT	-5.39	-0.007618	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	VL	NT	-6.42	-0.009074	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	VH	NT	-2.95	-0.004170	±2.5	PASS

Temperature										
Band	BW	Modulation	Channel	RB Configure	Voltage [Vdc]	Temp. (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band12	10MHz	QPSK	23095	50RB#0	NV	-30	-3.08	-0.004353	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-20	-4.72	-0.006671	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-10	-6.55	-0.009258	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	0	-3.96	-0.005597	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	10	-6.18	-0.008735	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	20	-5.97	-0.008438	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	30	-7.90	-0.011166	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	40	-2.15	-0.003039	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	50	3.39	0.004792	±2.5	PASS