

FCC LTE Band Test Data

FCC ID : 2BG5S-CLM920HE9NA

Company: : Shanghai Yuge information technology Co., Ltd.

EUT : 4G LTE Wireless Communication Module

Model Number : CLM920 HE9 NA

Reviewed By : Eric Wang

Appendix A: Conducted Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	22.71	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	22.97	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	23.04	PASS
Band12	1.4MHz	QPSK	23017	3RB#0	22.79	PASS
Band12	1.4MHz	QPSK	23017	3RB#1	22.77	PASS
Band12	1.4MHz	QPSK	23017	3RB#3	22.88	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	21.98	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	22.61	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	22.34	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	22.27	PASS
Band12	1.4MHz	QPSK	23095	3RB#0	22.40	PASS
Band12	1.4MHz	QPSK	23095	3RB#1	22.36	PASS
Band12	1.4MHz	QPSK	23095	3RB#3	22.21	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	21.41	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	22.79	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	22.17	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	21.96	PASS
Band12	1.4MHz	QPSK	23173	3RB#0	22.34	PASS
Band12	1.4MHz	QPSK	23173	3RB#1	22.29	PASS
Band12	1.4MHz	QPSK	23173	3RB#3	21.92	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	21.31	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	21.73	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	22.06	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	22.13	PASS
Band12	1.4MHz	16QAM	23017	3RB#0	21.73	PASS
Band12	1.4MHz	16QAM	23017	3RB#1	21.75	PASS
Band12	1.4MHz	16QAM	23017	3RB#3	21.90	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	21.13	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	21.56	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	21.43	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	21.36	PASS
Band12	1.4MHz	16QAM	23095	3RB#0	21.34	PASS
Band12	1.4MHz	16QAM	23095	3RB#1	21.33	PASS
Band12	1.4MHz	16QAM	23095	3RB#3	21.21	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	20.57	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	21.72	PASS

Band12	1.4MHz	16QAM	23173	1RB#2	21.36	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	21.08	PASS
Band12	1.4MHz	16QAM	23173	3RB#0	21.31	PASS
Band12	1.4MHz	16QAM	23173	3RB#1	21.28	PASS
Band12	1.4MHz	16QAM	23173	3RB#3	20.90	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	20.49	PASS
Band12	3MHz	QPSK	23025	1RB#0	22.53	PASS
Band12	3MHz	QPSK	23025	1RB#8	22.82	PASS
Band12	3MHz	QPSK	23025	1RB#14	22.54	PASS
Band12	3MHz	QPSK	23025	8RB#0	21.68	PASS
Band12	3MHz	QPSK	23025	8RB#4	21.71	PASS
Band12	3MHz	QPSK	23025	8RB#7	21.80	PASS
Band12	3MHz	QPSK	23025	15RB#0	21.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	22.21	PASS
Band12	3MHz	QPSK	23095	1RB#8	22.07	PASS
Band12	3MHz	QPSK	23095	1RB#14	22.12	PASS
Band12	3MHz	QPSK	23095	8RB#0	21.11	PASS
Band12	3MHz	QPSK	23095	8RB#4	21.14	PASS
Band12	3MHz	QPSK	23095	8RB#7	21.14	PASS
Band12	3MHz	QPSK	23095	15RB#0	21.13	PASS
Band12	3MHz	QPSK	23165	1RB#0	22.94	PASS
Band12	3MHz	QPSK	23165	1RB#8	22.08	PASS
Band12	3MHz	QPSK	23165	1RB#14	21.34	PASS
Band12	3MHz	QPSK	23165	8RB#0	21.57	PASS
Band12	3MHz	QPSK	23165	8RB#4	21.60	PASS
Band12	3MHz	QPSK	23165	8RB#7	20.91	PASS
Band12	3MHz	QPSK	23165	15RB#0	21.21	PASS
Band12	3MHz	16QAM	23025	1RB#0	21.55	PASS
Band12	3MHz	16QAM	23025	1RB#8	21.92	PASS
Band12	3MHz	16QAM	23025	1RB#14	21.63	PASS
Band12	3MHz	16QAM	23025	8RB#0	20.95	PASS
Band12	3MHz	16QAM	23025	8RB#4	20.95	PASS
Band12	3MHz	16QAM	23025	8RB#7	21.01	PASS
Band12	3MHz	16QAM	23025	15RB#0	20.92	PASS
Band12	3MHz	16QAM	23095	1RB#0	21.09	PASS
Band12	3MHz	16QAM	23095	1RB#8	21.04	PASS
Band12	3MHz	16QAM	23095	1RB#14	21.07	PASS
Band12	3MHz	16QAM	23095	8RB#0	20.35	PASS
Band12	3MHz	16QAM	23095	8RB#4	20.36	PASS
Band12	3MHz	16QAM	23095	8RB#7	20.37	PASS
Band12	3MHz	16QAM	23095	15RB#0	20.27	PASS
Band12	3MHz	16QAM	23165	1RB#0	21.83	PASS
Band12	3MHz	16QAM	23165	1RB#8	21.19	PASS

Band12	3MHz	16QAM	23165	1RB#14	20.51	PASS
Band12	3MHz	16QAM	23165	8RB#0	20.81	PASS
Band12	3MHz	16QAM	23165	8RB#4	20.81	PASS
Band12	3MHz	16QAM	23165	8RB#7	20.13	PASS
Band12	3MHz	16QAM	23165	15RB#0	20.43	PASS
Band12	5MHz	QPSK	23035	1RB#0	22.68	PASS
Band12	5MHz	QPSK	23035	1RB#12	22.72	PASS
Band12	5MHz	QPSK	23035	1RB#24	22.50	PASS
Band12	5MHz	QPSK	23035	12RB#0	21.69	PASS
Band12	5MHz	QPSK	23035	12RB#6	21.72	PASS
Band12	5MHz	QPSK	23035	12RB#13	21.58	PASS
Band12	5MHz	QPSK	23035	25RB#0	21.64	PASS
Band12	5MHz	QPSK	23095	1RB#0	22.26	PASS
Band12	5MHz	QPSK	23095	1RB#12	22.05	PASS
Band12	5MHz	QPSK	23095	1RB#24	22.48	PASS
Band12	5MHz	QPSK	23095	12RB#0	21.06	PASS
Band12	5MHz	QPSK	23095	12RB#6	21.08	PASS
Band12	5MHz	QPSK	23095	12RB#13	21.20	PASS
Band12	5MHz	QPSK	23095	25RB#0	21.12	PASS
Band12	5MHz	QPSK	23155	1RB#0	23.25	PASS
Band12	5MHz	QPSK	23155	1RB#12	22.75	PASS
Band12	5MHz	QPSK	23155	1RB#24	21.61	PASS
Band12	5MHz	QPSK	23155	12RB#0	21.87	PASS
Band12	5MHz	QPSK	23155	12RB#6	21.90	PASS
Band12	5MHz	QPSK	23155	12RB#13	21.02	PASS
Band12	5MHz	QPSK	23155	25RB#0	21.58	PASS
Band12	5MHz	16QAM	23035	1RB#0	21.69	PASS
Band12	5MHz	16QAM	23035	1RB#12	21.76	PASS
Band12	5MHz	16QAM	23035	1RB#24	21.47	PASS
Band12	5MHz	16QAM	23035	12RB#0	20.83	PASS
Band12	5MHz	16QAM	23035	12RB#6	20.84	PASS
Band12	5MHz	16QAM	23035	12RB#13	20.71	PASS
Band12	5MHz	16QAM	23035	25RB#0	20.82	PASS
Band12	5MHz	16QAM	23095	1RB#0	21.33	PASS
Band12	5MHz	16QAM	23095	1RB#12	21.23	PASS
Band12	5MHz	16QAM	23095	1RB#24	21.59	PASS
Band12	5MHz	16QAM	23095	12RB#0	20.33	PASS
Band12	5MHz	16QAM	23095	12RB#6	20.33	PASS
Band12	5MHz	16QAM	23095	12RB#13	20.43	PASS
Band12	5MHz	16QAM	23095	25RB#0	20.27	PASS
Band12	5MHz	16QAM	23155	1RB#0	22.09	PASS
Band12	5MHz	16QAM	23155	1RB#12	21.78	PASS
Band12	5MHz	16QAM	23155	1RB#24	20.59	PASS

Band12	5MHz	16QAM	23155	12RB#0	21.06	PASS
Band12	5MHz	16QAM	23155	12RB#6	21.05	PASS
Band12	5MHz	16QAM	23155	12RB#13	20.28	PASS
Band12	5MHz	16QAM	23155	25RB#0	20.74	PASS
Band12	10MHz	QPSK	23060	1RB#0	22.62	PASS
Band12	10MHz	QPSK	23060	1RB#24	22.45	PASS
Band12	10MHz	QPSK	23060	1RB#49	22.04	PASS
Band12	10MHz	QPSK	23060	25RB#0	21.56	PASS
Band12	10MHz	QPSK	23060	25RB#12	21.60	PASS
Band12	10MHz	QPSK	23060	25RB#25	21.05	PASS
Band12	10MHz	QPSK	23060	50RB#0	21.41	PASS
Band12	10MHz	QPSK	23095	1RB#0	22.60	PASS
Band12	10MHz	QPSK	23095	1RB#24	22.06	PASS
Band12	10MHz	QPSK	23095	1RB#49	22.94	PASS
Band12	10MHz	QPSK	23095	25RB#0	21.11	PASS
Band12	10MHz	QPSK	23095	25RB#12	21.12	PASS
Band12	10MHz	QPSK	23095	25RB#25	21.31	PASS
Band12	10MHz	QPSK	23095	50RB#0	21.41	PASS
Band12	10MHz	QPSK	23130	1RB#0	22.28	PASS
Band12	10MHz	QPSK	23130	1RB#24	22.92	PASS
Band12	10MHz	QPSK	23130	1RB#49	21.63	PASS
Band12	10MHz	QPSK	23130	25RB#0	21.21	PASS
Band12	10MHz	QPSK	23130	25RB#12	21.24	PASS
Band12	10MHz	QPSK	23130	25RB#25	21.50	PASS
Band12	10MHz	QPSK	23130	50RB#0	21.73	PASS
Band12	10MHz	16QAM	23060	1RB#0	21.74	PASS
Band12	10MHz	16QAM	23060	1RB#24	21.50	PASS
Band12	10MHz	16QAM	23060	1RB#49	21.10	PASS
Band12	10MHz	16QAM	23060	25RB#0	20.72	PASS
Band12	10MHz	16QAM	23060	25RB#12	20.72	PASS
Band12	10MHz	16QAM	23060	25RB#25	20.18	PASS
Band12	10MHz	16QAM	23095	1RB#0	21.51	PASS
Band12	10MHz	16QAM	23095	1RB#24	20.98	PASS
Band12	10MHz	16QAM	23095	1RB#49	21.82	PASS
Band12	10MHz	16QAM	23095	25RB#0	20.29	PASS
Band12	10MHz	16QAM	23095	25RB#12	20.29	PASS
Band12	10MHz	16QAM	23095	25RB#25	20.52	PASS
Band12	10MHz	16QAM	23130	1RB#0	21.24	PASS
Band12	10MHz	16QAM	23130	1RB#24	21.99	PASS
Band12	10MHz	16QAM	23130	1RB#49	20.75	PASS
Band12	10MHz	16QAM	23130	25RB#0	20.40	PASS
Band12	10MHz	16QAM	23130	25RB#12	20.40	PASS
Band12	10MHz	16QAM	23130	25RB#25	20.64	PASS

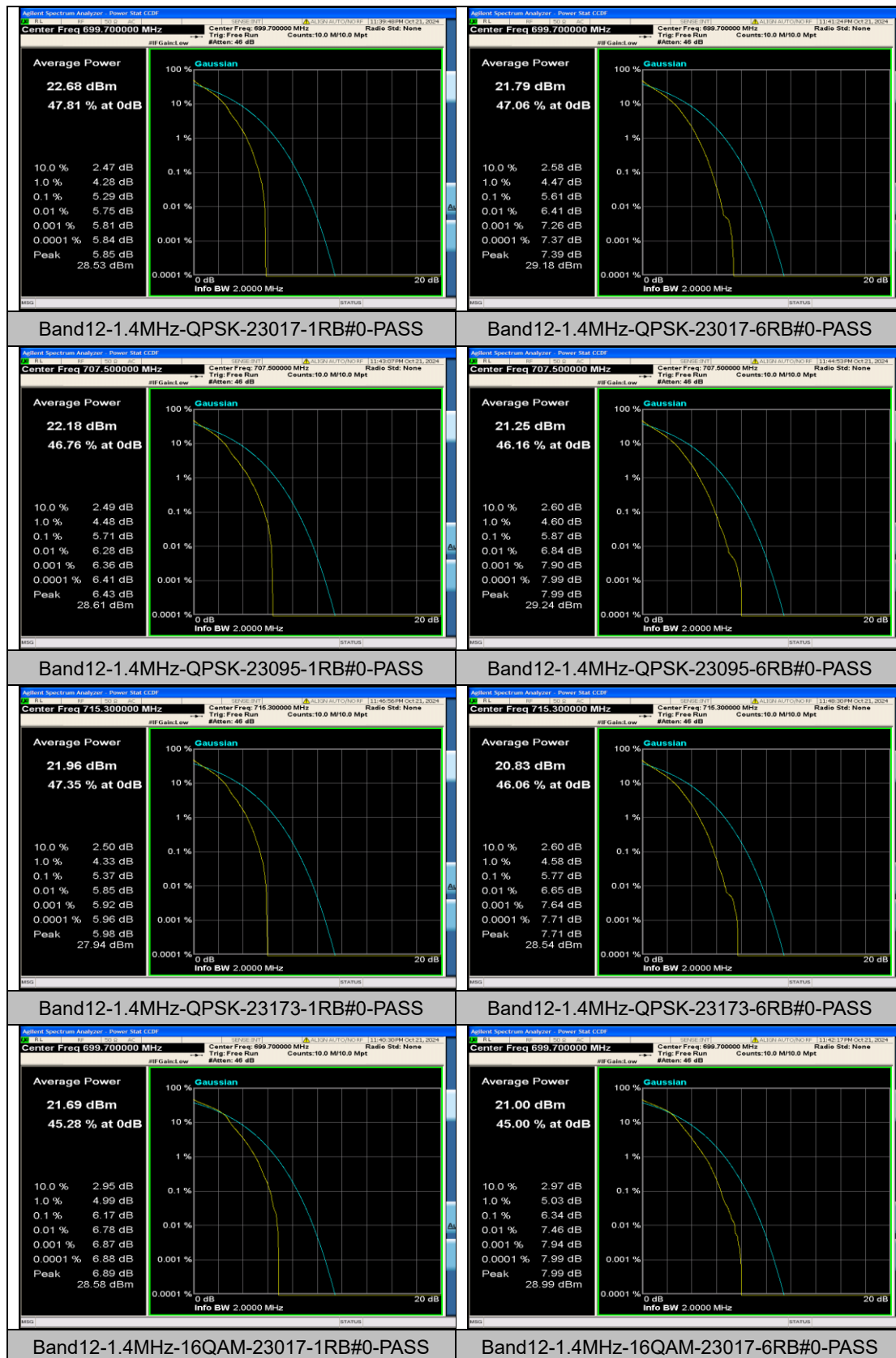
Appendix B: Peak-to-Average Ratio(CCDF)

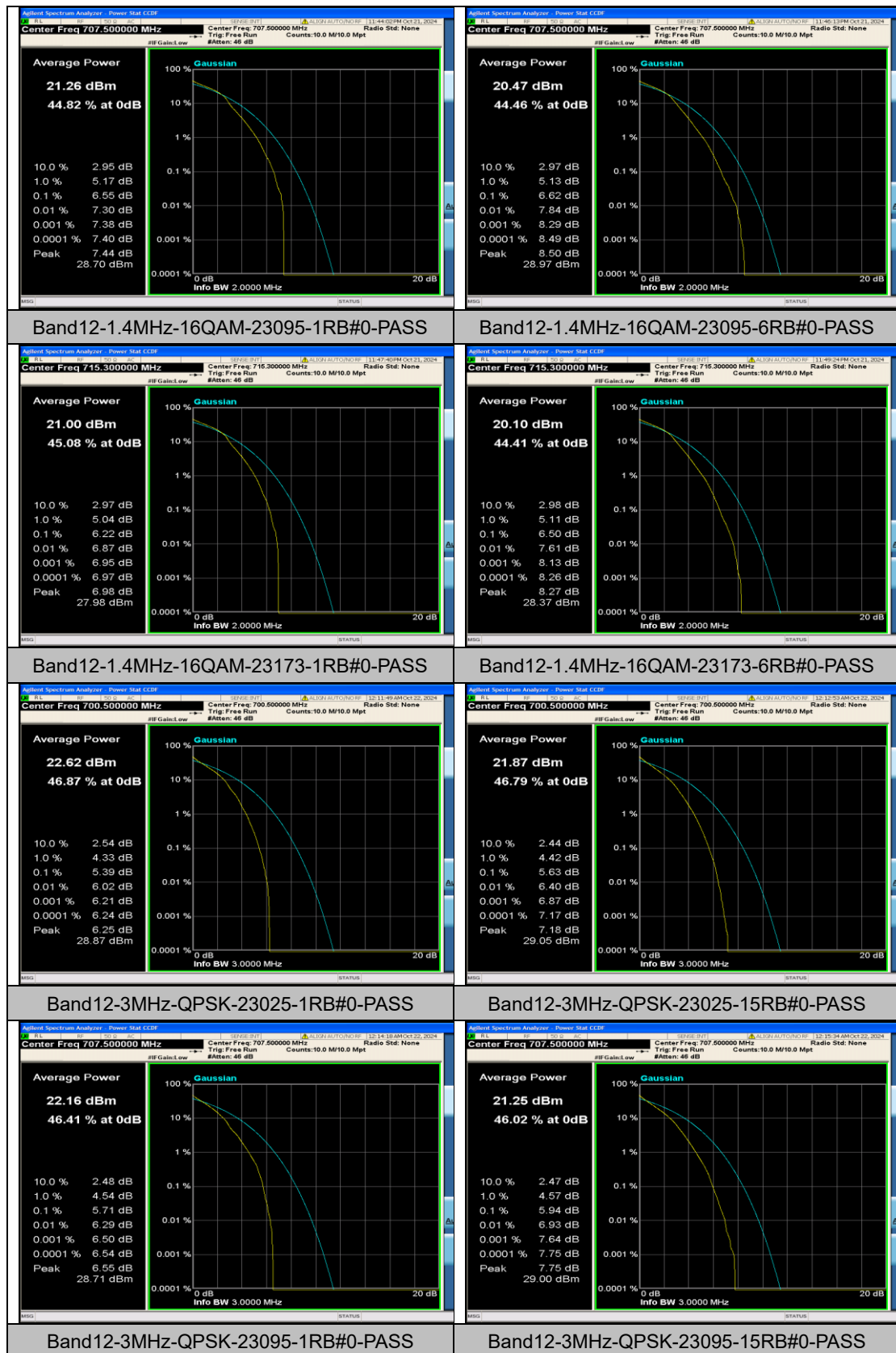
Test Result

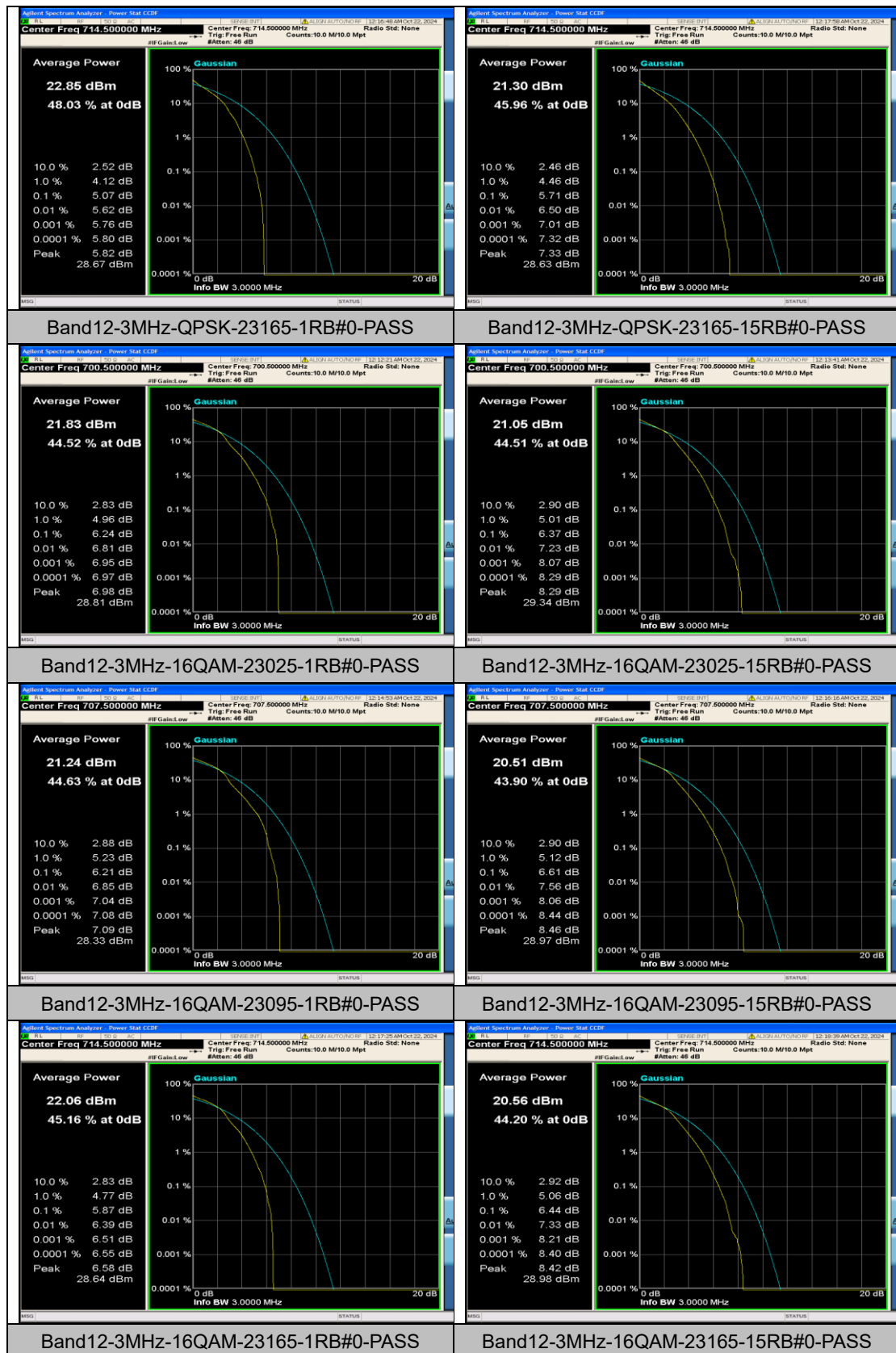
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	5.29	13	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	5.61	13	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	5.71	13	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	5.87	13	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	5.37	13	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	5.77	13	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	6.17	13	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	6.34	13	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	6.55	13	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	6.62	13	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	6.22	13	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	6.50	13	PASS
Band12	3MHz	QPSK	23025	1RB#0	5.39	13	PASS
Band12	3MHz	QPSK	23025	15RB#0	5.63	13	PASS
Band12	3MHz	QPSK	23095	1RB#0	5.71	13	PASS
Band12	3MHz	QPSK	23095	15RB#0	5.94	13	PASS
Band12	3MHz	QPSK	23165	1RB#0	5.07	13	PASS
Band12	3MHz	QPSK	23165	15RB#0	5.71	13	PASS
Band12	3MHz	16QAM	23025	1RB#0	6.24	13	PASS
Band12	3MHz	16QAM	23025	15RB#0	6.37	13	PASS
Band12	3MHz	16QAM	23095	1RB#0	6.21	13	PASS
Band12	3MHz	16QAM	23095	15RB#0	6.61	13	PASS
Band12	3MHz	16QAM	23165	1RB#0	5.87	13	PASS
Band12	3MHz	16QAM	23165	15RB#0	6.44	13	PASS
Band12	5MHz	QPSK	23035	1RB#0	5.37	13	PASS
Band12	5MHz	QPSK	23035	25RB#0	5.64	13	PASS
Band12	5MHz	QPSK	23095	1RB#0	5.65	13	PASS
Band12	5MHz	QPSK	23095	25RB#0	5.83	13	PASS
Band12	5MHz	QPSK	23155	1RB#0	5.21	13	PASS
Band12	5MHz	QPSK	23155	25RB#0	5.60	13	PASS
Band12	5MHz	16QAM	23035	1RB#0	5.77	13	PASS
Band12	5MHz	16QAM	23035	25RB#0	6.27	13	PASS
Band12	5MHz	16QAM	23095	1RB#0	6.19	13	PASS
Band12	5MHz	16QAM	23095	25RB#0	6.46	13	PASS
Band12	5MHz	16QAM	23155	1RB#0	5.67	13	PASS

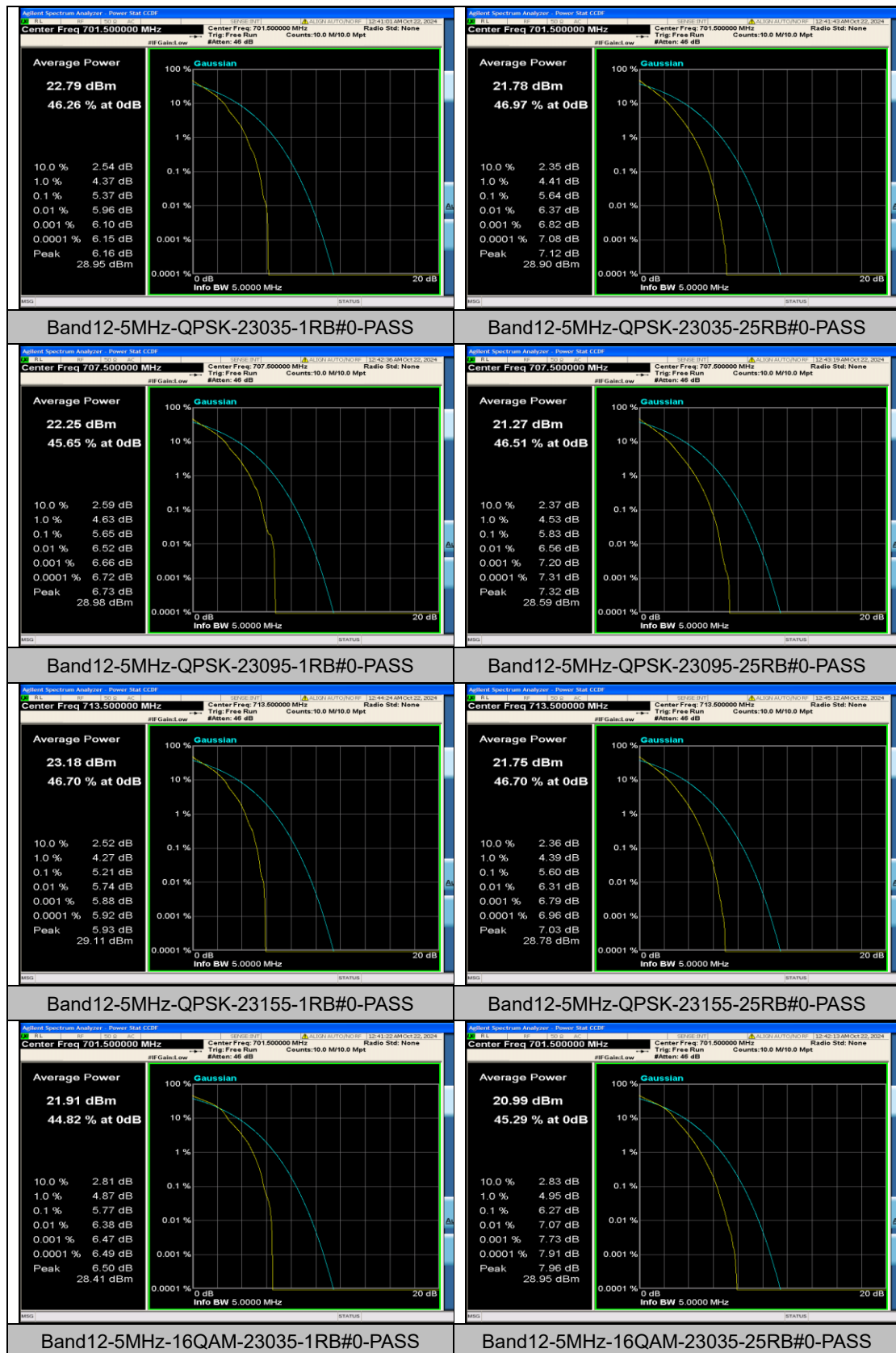
Band12	5MHz	16QAM	23155	25RB#0	6.23	13	PASS
Band12	10MHz	QPSK	23060	1RB#0	5.18	13	PASS
Band12	10MHz	QPSK	23060	50RB#0	5.62	13	PASS
Band12	10MHz	QPSK	23095	1RB#0	5.13	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.69	13	PASS
Band12	10MHz	QPSK	23130	1RB#0	5.59	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.49	13	PASS
Band12	10MHz	16QAM	23060	1RB#0	6.04	13	PASS
Band12	10MHz	16QAM	23095	1RB#0	5.77	13	PASS
Band12	10MHz	16QAM	23130	1RB#0	6.41	13	PASS

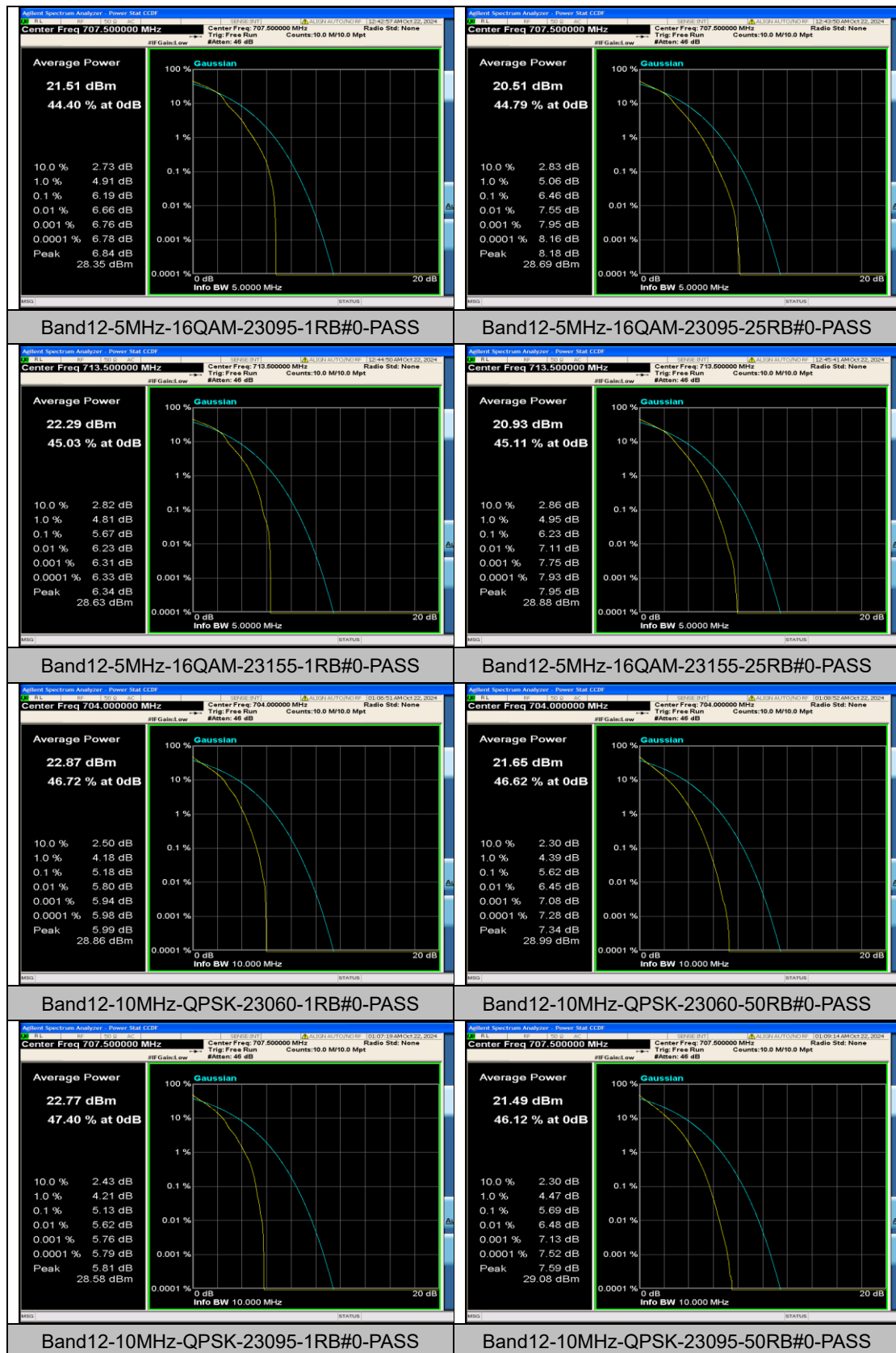
Test Graphs

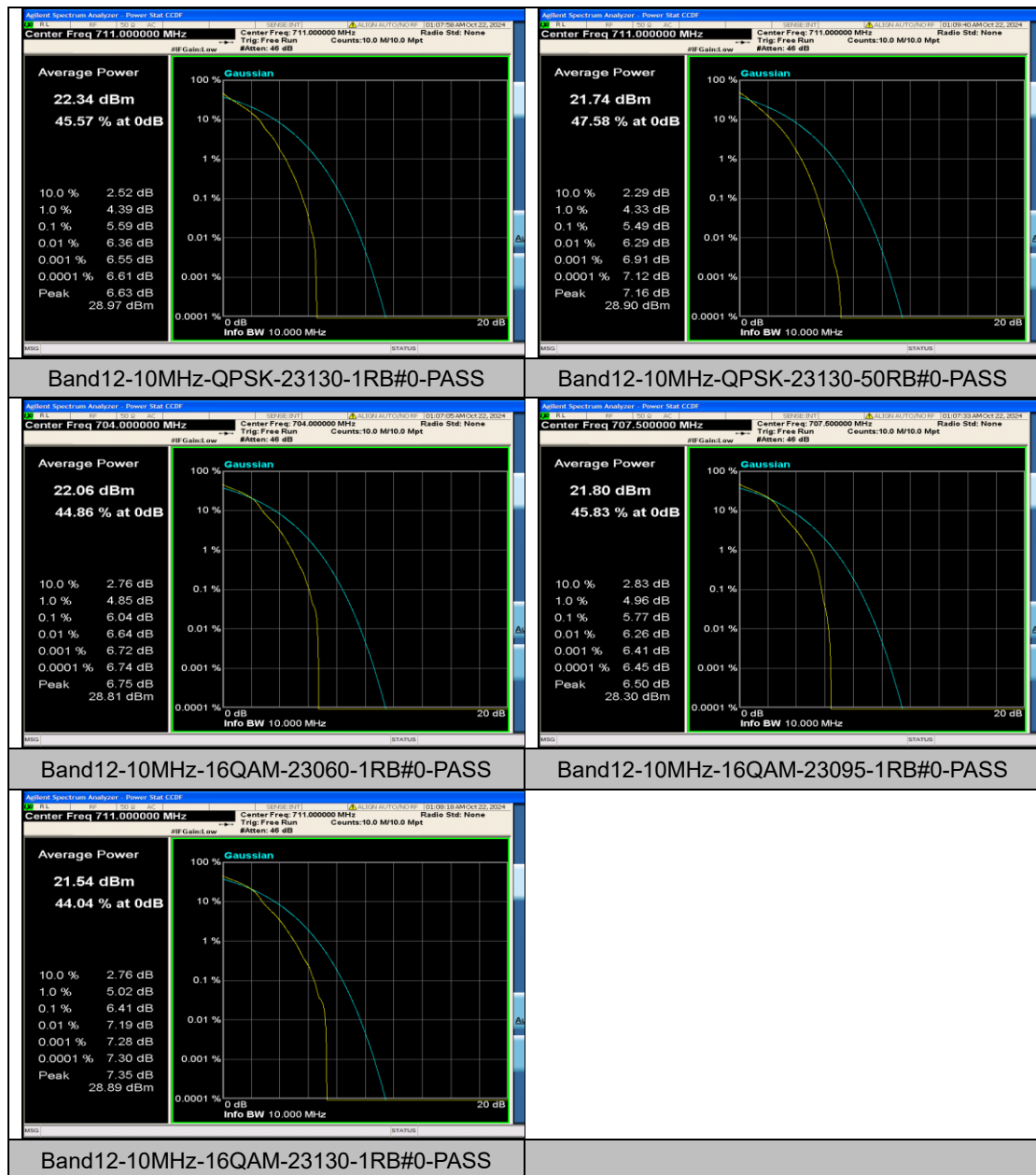










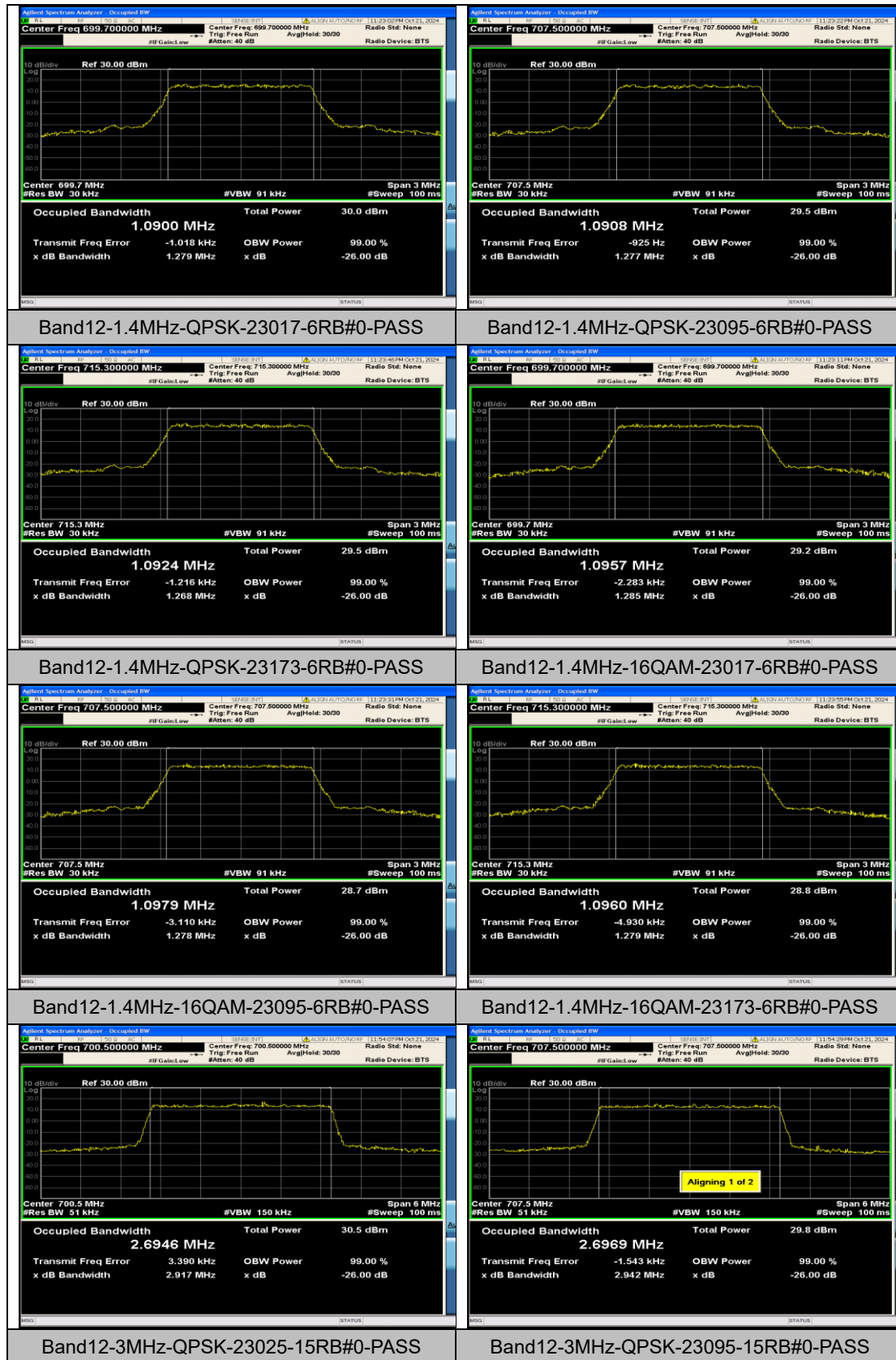


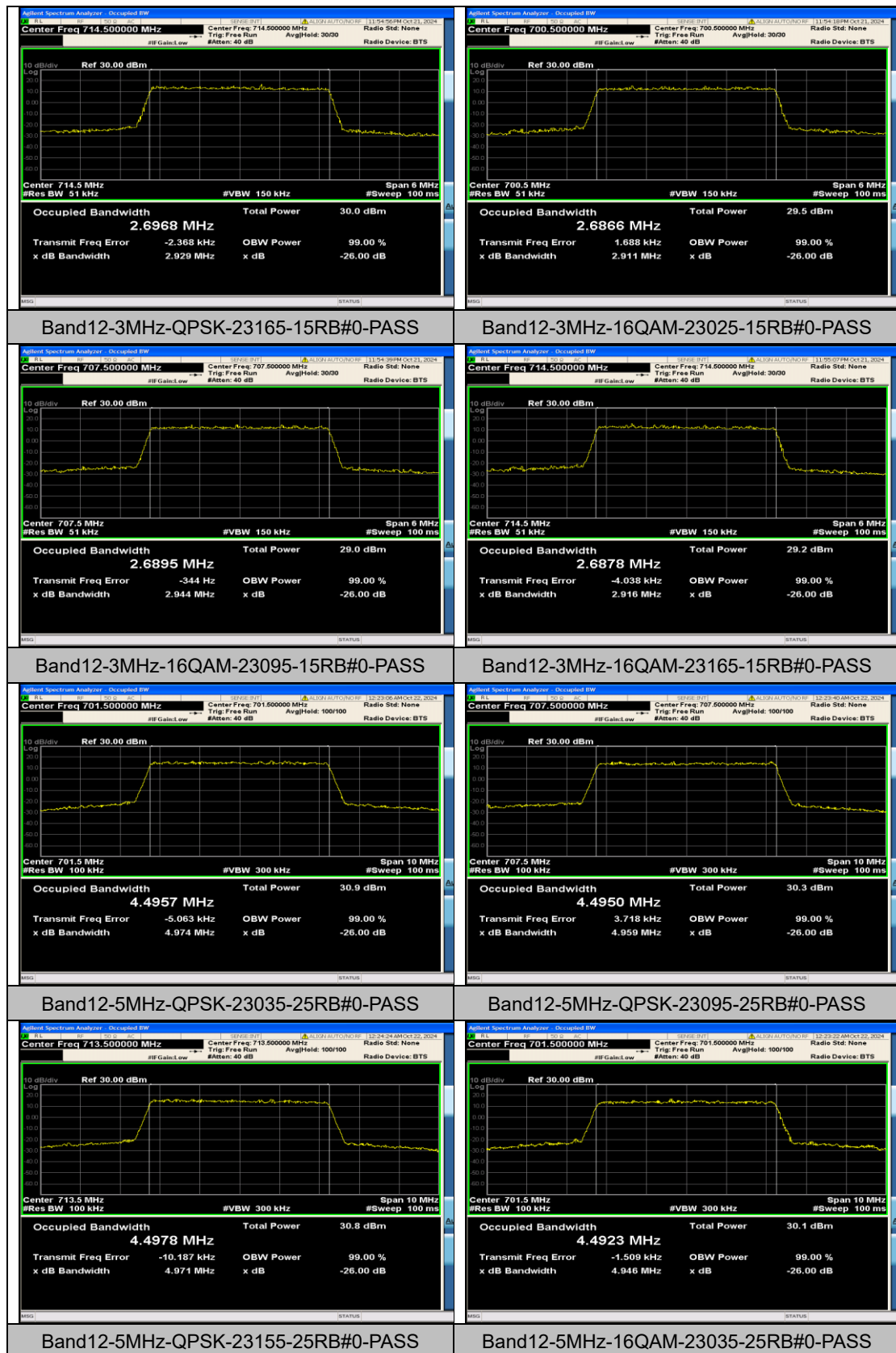
Appendix C: 26dB Bandwidth and Occupied Bandwidth

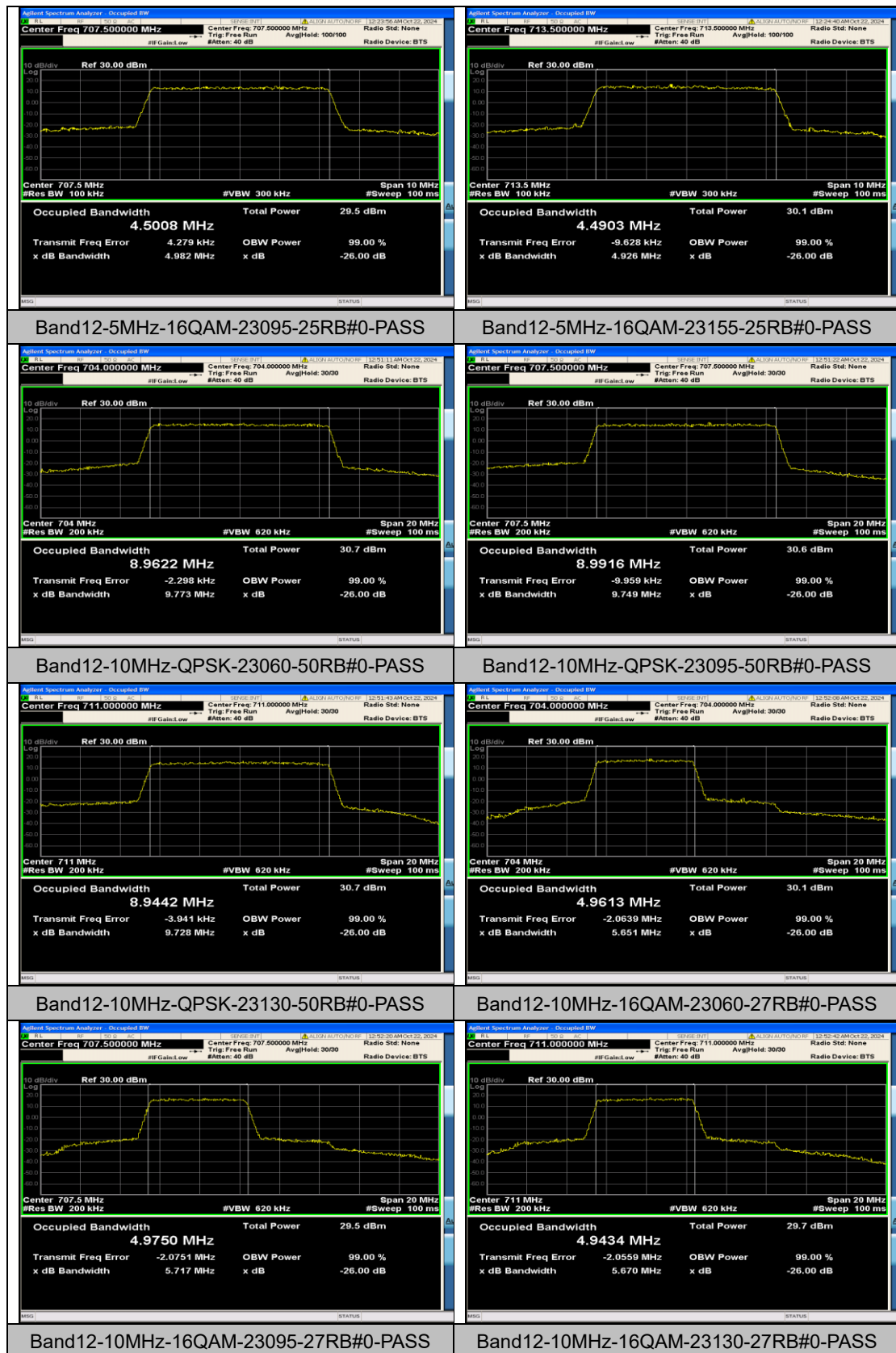
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.0900	1.279	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.0908	1.277	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.0924	1.268	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.0957	1.285	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.0979	1.278	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.0960	1.279	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.6946	2.917	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.6969	2.942	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.6968	2.929	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.6866	2.911	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.6895	2.944	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.6878	2.916	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.4957	4.974	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.4950	4.959	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.4978	4.971	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.4923	4.946	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.5008	4.982	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.4903	4.926	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.9622	9.773	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.9916	9.749	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.9442	9.728	PASS
Band12	10MHz	16QAM	23060	27RB#0	4.9613	5.651	PASS
Band12	10MHz	16QAM	23095	27RB#0	4.9750	5.717	PASS
Band12	10MHz	16QAM	23130	27RB#0	4.9434	5.670	PASS

Test Graphs







Appendix D: Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	-26.04	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	-29.43	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	-28.32	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	-31.25	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	-28.21	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	-30.06	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	-27.59	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	-30.53	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	-28.59	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	-32.49	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	-28.55	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	-29.86	PASS
Band12	3MHz	QPSK	23025	1RB#0	-23.80	PASS
Band12	3MHz	QPSK	23025	1RB#14	-37.63	PASS
Band12	3MHz	QPSK	23025	15RB#0	-30.89	PASS
Band12	3MHz	QPSK	23165	1RB#0	-38.49	PASS
Band12	3MHz	QPSK	23165	1RB#14	-25.12	PASS
Band12	3MHz	QPSK	23165	15RB#0	-33.06	PASS
Band12	3MHz	16QAM	23025	1RB#0	-25.29	PASS
Band12	3MHz	16QAM	23025	1RB#14	-37.12	PASS
Band12	3MHz	16QAM	23025	15RB#0	-31.61	PASS
Band12	3MHz	16QAM	23165	1RB#0	-38.12	PASS
Band12	3MHz	16QAM	23165	1RB#14	-27.48	PASS
Band12	3MHz	16QAM	23165	15RB#0	-33.69	PASS
Band12	5MHz	QPSK	23035	1RB#0	-26.14	PASS
Band12	5MHz	QPSK	23035	1RB#24	-47.91	PASS
Band12	5MHz	QPSK	23035	25RB#0	-32.60	PASS
Band12	5MHz	QPSK	23155	1RB#0	-47.81	PASS
Band12	5MHz	QPSK	23155	1RB#24	-27.54	PASS
Band12	5MHz	QPSK	23155	25RB#0	-34.60	PASS
Band12	5MHz	16QAM	23035	1RB#0	-27.37	PASS
Band12	5MHz	16QAM	23035	1RB#24	-48.45	PASS
Band12	5MHz	16QAM	23035	25RB#0	-33.93	PASS
Band12	5MHz	16QAM	23155	1RB#0	-48.77	PASS
Band12	5MHz	16QAM	23155	1RB#24	-27.57	PASS
Band12	5MHz	16QAM	23155	25RB#0	-35.60	PASS

Band12	10MHz	QPSK	23060	1RB#0	-33.68	PASS
Band12	10MHz	QPSK	23060	1RB#49	-46.16	PASS
Band12	10MHz	QPSK	23060	50RB#0	-35.20	PASS
Band12	10MHz	QPSK	23130	1RB#0	-48.38	PASS
Band12	10MHz	QPSK	23130	1RB#49	-34.55	PASS
Band12	10MHz	QPSK	23130	50RB#0	-38.72	PASS
Band12	10MHz	16QAM	23060	1RB#0	-34.83	PASS
Band12	10MHz	16QAM	23060	1RB#49	-47.16	PASS
Band12	10MHz	16QAM	23130	1RB#0	-48.49	PASS
Band12	10MHz	16QAM	23130	1RB#49	-34.33	PASS

Test Graphs

