

FCC Appendix RF Test Data for LTE Band 12

Company: : AGRISOUND LIMITED

EUT : AGRISOUND_POLLY

Model Number : PV_3.1

FCC ID : 2BTNL-PV

Report No. : CTA25101401506

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	23.64	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	23.59	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	23.35	PASS
Band12	1.4MHz	QPSK	23017	3RB#0	23.53	PASS
Band12	1.4MHz	QPSK	23017	3RB#1	23.45	PASS
Band12	1.4MHz	QPSK	23017	3RB#3	23.76	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	22.69	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	23.61	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	23.73	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	23.74	PASS
Band12	1.4MHz	QPSK	23095	3RB#0	23.78	PASS
Band12	1.4MHz	QPSK	23095	3RB#1	23.95	PASS
Band12	1.4MHz	QPSK	23095	3RB#3	23.74	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	22.78	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	23.70	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	23.78	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	23.63	PASS
Band12	1.4MHz	QPSK	23173	3RB#0	23.70	PASS
Band12	1.4MHz	QPSK	23173	3RB#1	23.45	PASS
Band12	1.4MHz	QPSK	23173	3RB#3	23.55	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	22.44	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	22.27	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	22.65	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	22.97	PASS
Band12	1.4MHz	16QAM	23017	3RB#0	22.47	PASS
Band12	1.4MHz	16QAM	23017	3RB#1	22.28	PASS
Band12	1.4MHz	16QAM	23017	3RB#3	22.04	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	21.64	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	22.78	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	22.84	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	22.77	PASS
Band12	1.4MHz	16QAM	23095	3RB#0	22.47	PASS
Band12	1.4MHz	16QAM	23095	3RB#1	22.56	PASS
Band12	1.4MHz	16QAM	23095	3RB#3	22.35	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	21.79	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	22.68	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	22.73	PASS

Band12	1.4MHz	16QAM	23173	1RB#5	22.36	PASS
Band12	1.4MHz	16QAM	23173	3RB#0	22.53	PASS
Band12	1.4MHz	16QAM	23173	3RB#1	22.50	PASS
Band12	1.4MHz	16QAM	23173	3RB#3	22.73	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	21.54	PASS
Band12	3MHz	QPSK	23025	1RB#0	17.12	PASS
Band12	3MHz	QPSK	23025	1RB#8	17.18	PASS
Band12	3MHz	QPSK	23025	1RB#14	17.39	PASS
Band12	3MHz	QPSK	23025	8RB#0	16.21	PASS
Band12	3MHz	QPSK	23025	8RB#4	16.31	PASS
Band12	3MHz	QPSK	23025	8RB#7	16.51	PASS
Band12	3MHz	QPSK	23025	15RB#0	16.45	PASS
Band12	3MHz	QPSK	23095	1RB#0	17.71	PASS
Band12	3MHz	QPSK	23095	1RB#8	17.60	PASS
Band12	3MHz	QPSK	23095	1RB#14	17.66	PASS
Band12	3MHz	QPSK	23095	8RB#0	16.80	PASS
Band12	3MHz	QPSK	23095	8RB#4	16.99	PASS
Band12	3MHz	QPSK	23095	8RB#7	16.99	PASS
Band12	3MHz	QPSK	23095	15RB#0	17.06	PASS
Band12	3MHz	QPSK	23165	1RB#0	18.26	PASS
Band12	3MHz	QPSK	23165	1RB#8	17.95	PASS
Band12	3MHz	QPSK	23165	1RB#14	18.20	PASS
Band12	3MHz	QPSK	23165	8RB#0	17.34	PASS
Band12	3MHz	QPSK	23165	8RB#4	17.30	PASS
Band12	3MHz	QPSK	23165	8RB#7	17.20	PASS
Band12	3MHz	QPSK	23165	15RB#0	17.16	PASS
Band12	3MHz	16QAM	23025	1RB#0	16.26	PASS
Band12	3MHz	16QAM	23025	1RB#8	17.05	PASS
Band12	3MHz	16QAM	23025	1RB#14	16.44	PASS
Band12	3MHz	16QAM	23025	8RB#0	15.37	PASS
Band12	3MHz	16QAM	23025	8RB#4	15.63	PASS
Band12	3MHz	16QAM	23025	8RB#7	15.82	PASS
Band12	3MHz	16QAM	23025	15RB#0	15.41	PASS
Band12	3MHz	16QAM	23095	1RB#0	16.49	PASS
Band12	3MHz	16QAM	23095	1RB#8	16.62	PASS
Band12	3MHz	16QAM	23095	1RB#14	16.87	PASS
Band12	3MHz	16QAM	23095	8RB#0	16.07	PASS
Band12	3MHz	16QAM	23095	8RB#4	16.15	PASS
Band12	3MHz	16QAM	23095	8RB#7	16.42	PASS
Band12	3MHz	16QAM	23095	15RB#0	16.11	PASS
Band12	3MHz	16QAM	23165	1RB#0	17.14	PASS
Band12	3MHz	16QAM	23165	1RB#8	16.78	PASS
Band12	3MHz	16QAM	23165	1RB#14	17.02	PASS

Band12	3MHz	16QAM	23165	8RB#0	16.31	PASS
Band12	3MHz	16QAM	23165	8RB#4	16.30	PASS
Band12	3MHz	16QAM	23165	8RB#7	16.31	PASS
Band12	3MHz	16QAM	23165	15RB#0	16.13	PASS
Band12	5MHz	QPSK	23035	1RB#0	17.11	PASS
Band12	5MHz	QPSK	23035	1RB#12	17.67	PASS
Band12	5MHz	QPSK	23035	1RB#24	17.44	PASS
Band12	5MHz	QPSK	23035	12RB#0	16.33	PASS
Band12	5MHz	QPSK	23035	12RB#6	16.31	PASS
Band12	5MHz	QPSK	23035	12RB#13	16.44	PASS
Band12	5MHz	QPSK	23035	25RB#0	16.38	PASS
Band12	5MHz	QPSK	23095	1RB#0	17.92	PASS
Band12	5MHz	QPSK	23095	1RB#12	17.97	PASS
Band12	5MHz	QPSK	23095	1RB#24	17.99	PASS
Band12	5MHz	QPSK	23095	12RB#0	16.87	PASS
Band12	5MHz	QPSK	23095	12RB#6	16.91	PASS
Band12	5MHz	QPSK	23095	12RB#13	16.80	PASS
Band12	5MHz	QPSK	23095	25RB#0	16.73	PASS
Band12	5MHz	QPSK	23155	1RB#0	17.95	PASS
Band12	5MHz	QPSK	23155	1RB#12	17.96	PASS
Band12	5MHz	QPSK	23155	1RB#24	18.15	PASS
Band12	5MHz	QPSK	23155	12RB#0	17.05	PASS
Band12	5MHz	QPSK	23155	12RB#6	17.13	PASS
Band12	5MHz	QPSK	23155	12RB#13	16.99	PASS
Band12	5MHz	QPSK	23155	25RB#0	17.05	PASS
Band12	5MHz	16QAM	23035	1RB#0	15.76	PASS
Band12	5MHz	16QAM	23035	1RB#12	17.02	PASS
Band12	5MHz	16QAM	23035	1RB#24	16.17	PASS
Band12	5MHz	16QAM	23035	12RB#0	15.38	PASS
Band12	5MHz	16QAM	23035	12RB#6	15.32	PASS
Band12	5MHz	16QAM	23035	12RB#13	15.50	PASS
Band12	5MHz	16QAM	23035	25RB#0	15.51	PASS
Band12	5MHz	16QAM	23095	1RB#0	16.84	PASS
Band12	5MHz	16QAM	23095	1RB#12	16.80	PASS
Band12	5MHz	16QAM	23095	1RB#24	16.87	PASS
Band12	5MHz	16QAM	23095	12RB#0	15.94	PASS
Band12	5MHz	16QAM	23095	12RB#6	15.91	PASS
Band12	5MHz	16QAM	23095	12RB#13	15.92	PASS
Band12	5MHz	16QAM	23095	25RB#0	15.89	PASS
Band12	5MHz	16QAM	23155	1RB#0	17.11	PASS
Band12	5MHz	16QAM	23155	1RB#12	17.34	PASS
Band12	5MHz	16QAM	23155	1RB#24	17.06	PASS
Band12	5MHz	16QAM	23155	12RB#0	16.30	PASS

Band12	5MHz	16QAM	23155	12RB#6	16.41	PASS
Band12	5MHz	16QAM	23155	12RB#13	16.31	PASS
Band12	5MHz	16QAM	23155	25RB#0	16.09	PASS
Band12	10MHz	QPSK	23060	1RB#0	17.07	PASS
Band12	10MHz	QPSK	23060	1RB#24	17.53	PASS
Band12	10MHz	QPSK	23060	1RB#49	17.57	PASS
Band12	10MHz	QPSK	23060	25RB#0	16.45	PASS
Band12	10MHz	QPSK	23060	25RB#12	16.39	PASS
Band12	10MHz	QPSK	23060	25RB#25	16.87	PASS
Band12	10MHz	QPSK	23060	50RB#0	16.59	PASS
Band12	10MHz	QPSK	23095	1RB#0	17.18	PASS
Band12	10MHz	QPSK	23095	1RB#24	17.78	PASS
Band12	10MHz	QPSK	23095	1RB#49	17.90	PASS
Band12	10MHz	QPSK	23095	25RB#0	16.69	PASS
Band12	10MHz	QPSK	23095	25RB#12	16.76	PASS
Band12	10MHz	QPSK	23095	25RB#25	16.93	PASS
Band12	10MHz	QPSK	23095	50RB#0	16.76	PASS
Band12	10MHz	QPSK	23130	1RB#0	17.83	PASS
Band12	10MHz	QPSK	23130	1RB#24	18.33	PASS
Band12	10MHz	QPSK	23130	1RB#49	17.81	PASS
Band12	10MHz	QPSK	23130	25RB#0	16.98	PASS
Band12	10MHz	QPSK	23130	25RB#12	17.00	PASS
Band12	10MHz	QPSK	23130	25RB#25	17.02	PASS
Band12	10MHz	QPSK	23130	50RB#0	16.94	PASS
Band12	10MHz	16QAM	23060	1RB#0	16.12	PASS
Band12	10MHz	16QAM	23060	1RB#24	16.65	PASS
Band12	10MHz	16QAM	23060	1RB#49	16.68	PASS
Band12	10MHz	16QAM	23060	25RB#0	15.35	PASS
Band12	10MHz	16QAM	23060	25RB#12	15.27	PASS
Band12	10MHz	16QAM	23060	25RB#25	15.81	PASS
Band12	10MHz	16QAM	23095	1RB#0	16.48	PASS
Band12	10MHz	16QAM	23095	1RB#24	17.03	PASS
Band12	10MHz	16QAM	23095	1RB#49	16.79	PASS
Band12	10MHz	16QAM	23095	25RB#0	15.76	PASS
Band12	10MHz	16QAM	23095	25RB#12	15.73	PASS
Band12	10MHz	16QAM	23095	25RB#25	15.96	PASS
Band12	10MHz	16QAM	23130	1RB#0	16.81	PASS
Band12	10MHz	16QAM	23130	1RB#24	17.61	PASS
Band12	10MHz	16QAM	23130	1RB#49	16.63	PASS
Band12	10MHz	16QAM	23130	25RB#0	16.10	PASS
Band12	10MHz	16QAM	23130	25RB#12	16.11	PASS
Band12	10MHz	16QAM	23130	25RB#25	16.17	PASS

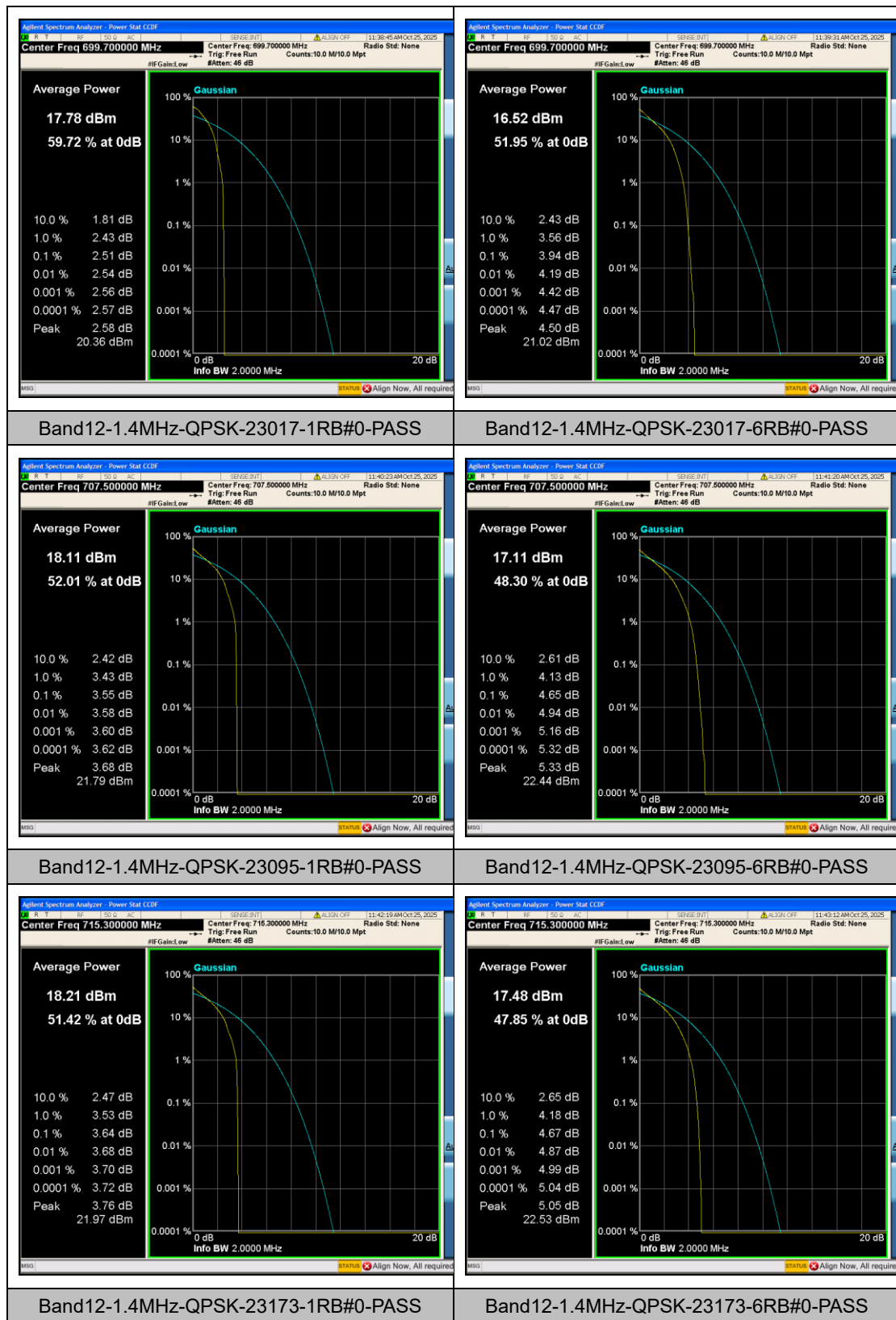
Appendix B: Peak-to-Average Ratio(CCDF)

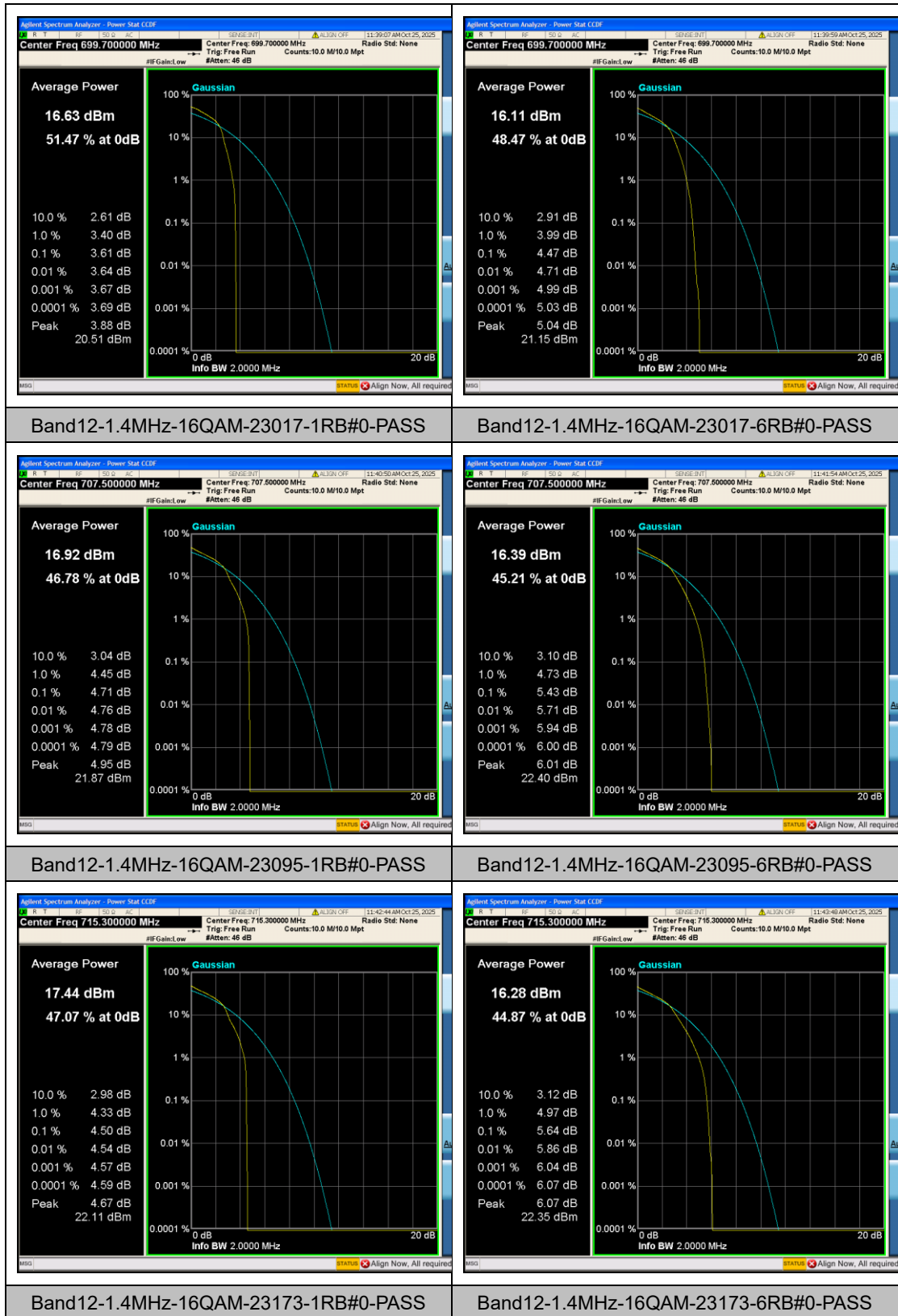
Test Result

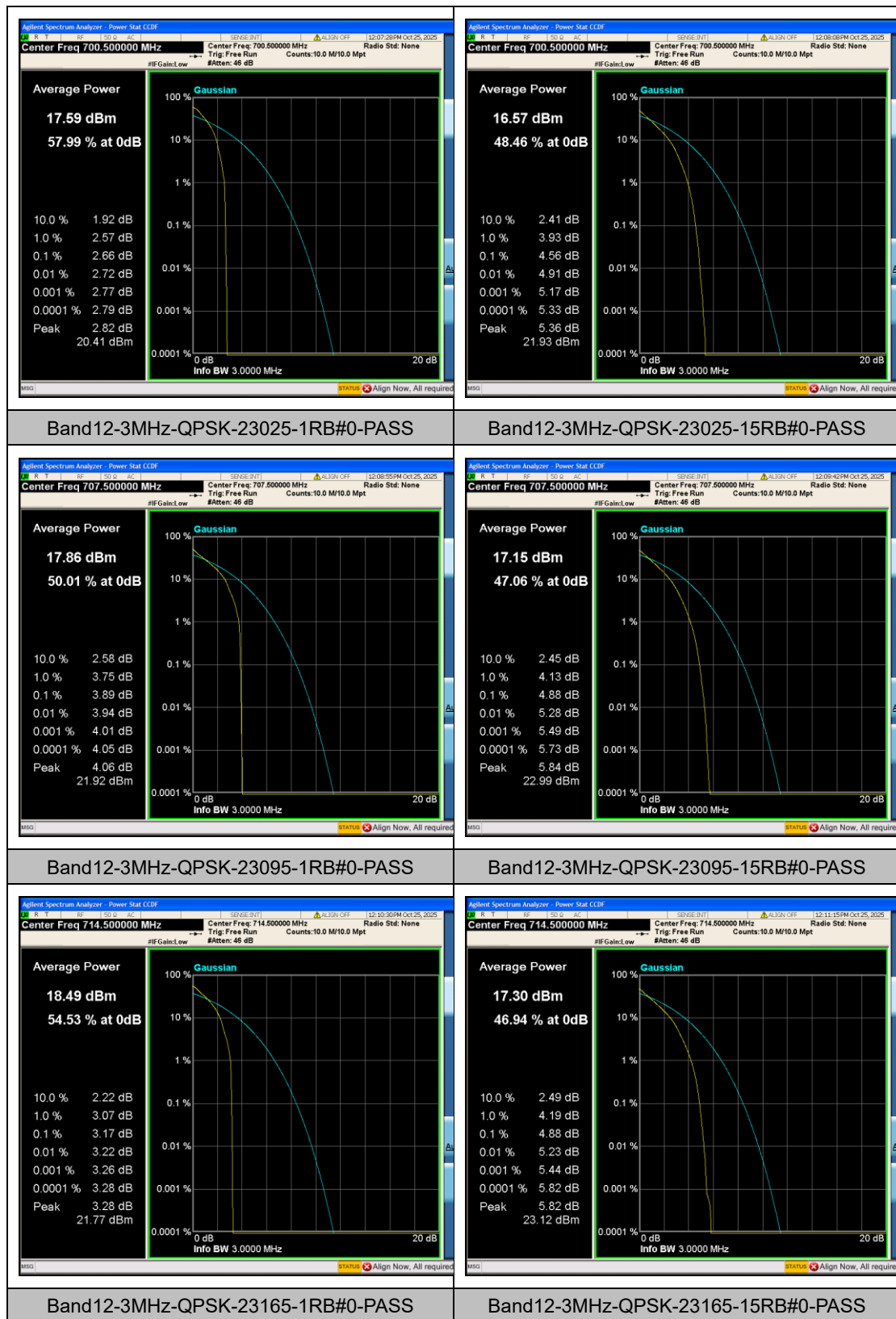
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	2.51	13	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	3.94	13	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	3.55	13	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	4.65	13	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	3.64	13	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	4.67	13	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	3.61	13	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	4.47	13	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	4.71	13	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	5.43	13	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	4.50	13	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	5.64	13	PASS
Band12	3MHz	QPSK	23025	1RB#0	2.66	13	PASS
Band12	3MHz	QPSK	23025	15RB#0	4.56	13	PASS
Band12	3MHz	QPSK	23095	1RB#0	3.89	13	PASS
Band12	3MHz	QPSK	23095	15RB#0	4.88	13	PASS
Band12	3MHz	QPSK	23165	1RB#0	3.17	13	PASS
Band12	3MHz	QPSK	23165	15RB#0	4.88	13	PASS
Band12	3MHz	16QAM	23025	1RB#0	3.60	13	PASS
Band12	3MHz	16QAM	23025	15RB#0	5.35	13	PASS
Band12	3MHz	16QAM	23095	1RB#0	4.78	13	PASS
Band12	3MHz	16QAM	23095	15RB#0	5.72	13	PASS
Band12	3MHz	16QAM	23165	1RB#0	4.21	13	PASS
Band12	3MHz	16QAM	23165	15RB#0	5.68	13	PASS
Band12	5MHz	QPSK	23035	1RB#0	2.81	13	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.65	13	PASS
Band12	5MHz	QPSK	23095	1RB#0	3.73	13	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.86	13	PASS
Band12	5MHz	QPSK	23155	1RB#0	2.95	13	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.66	13	PASS
Band12	5MHz	16QAM	23035	1RB#0	3.90	13	PASS
Band12	5MHz	16QAM	23035	25RB#0	5.43	13	PASS
Band12	5MHz	16QAM	23095	1RB#0	4.74	13	PASS
Band12	5MHz	16QAM	23095	25RB#0	5.69	13	PASS
Band12	5MHz	16QAM	23155	1RB#0	3.69	13	PASS
Band12	5MHz	16QAM	23155	25RB#0	5.45	13	PASS

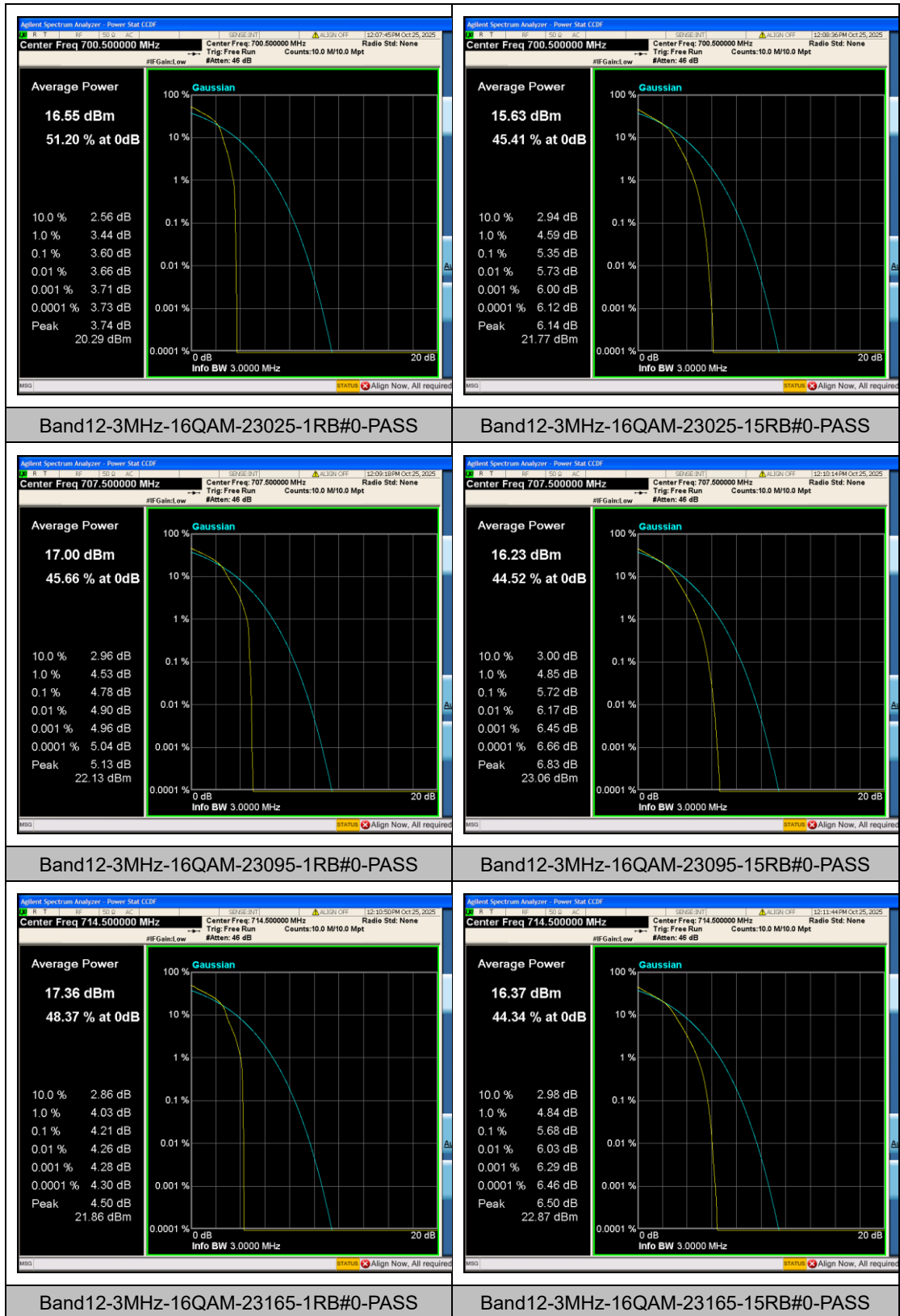
Band12	10MHz	QPSK	23060	1RB#0	2.90	13	PASS
Band12	10MHz	QPSK	23060	50RB#0	4.79	13	PASS
Band12	10MHz	QPSK	23095	1RB#0	3.79	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	4.83	13	PASS
Band12	10MHz	QPSK	23130	1RB#0	3.67	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	4.60	13	PASS
Band12	10MHz	16QAM	23060	1RB#0	3.81	13	PASS
Band12	10MHz	16QAM	23095	1RB#0	4.62	13	PASS
Band12	10MHz	16QAM	23130	1RB#0	4.81	13	PASS

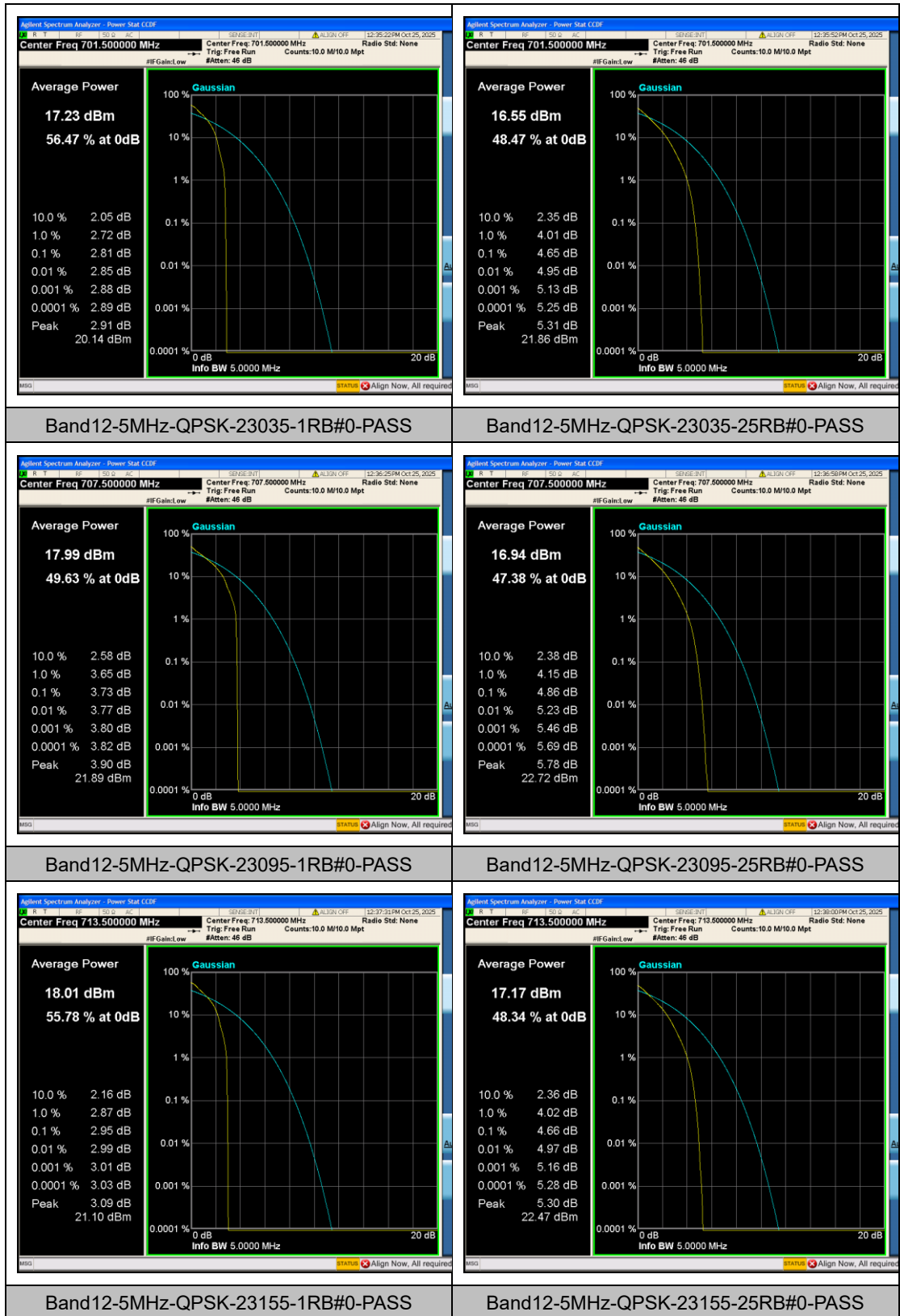
Test Graphs

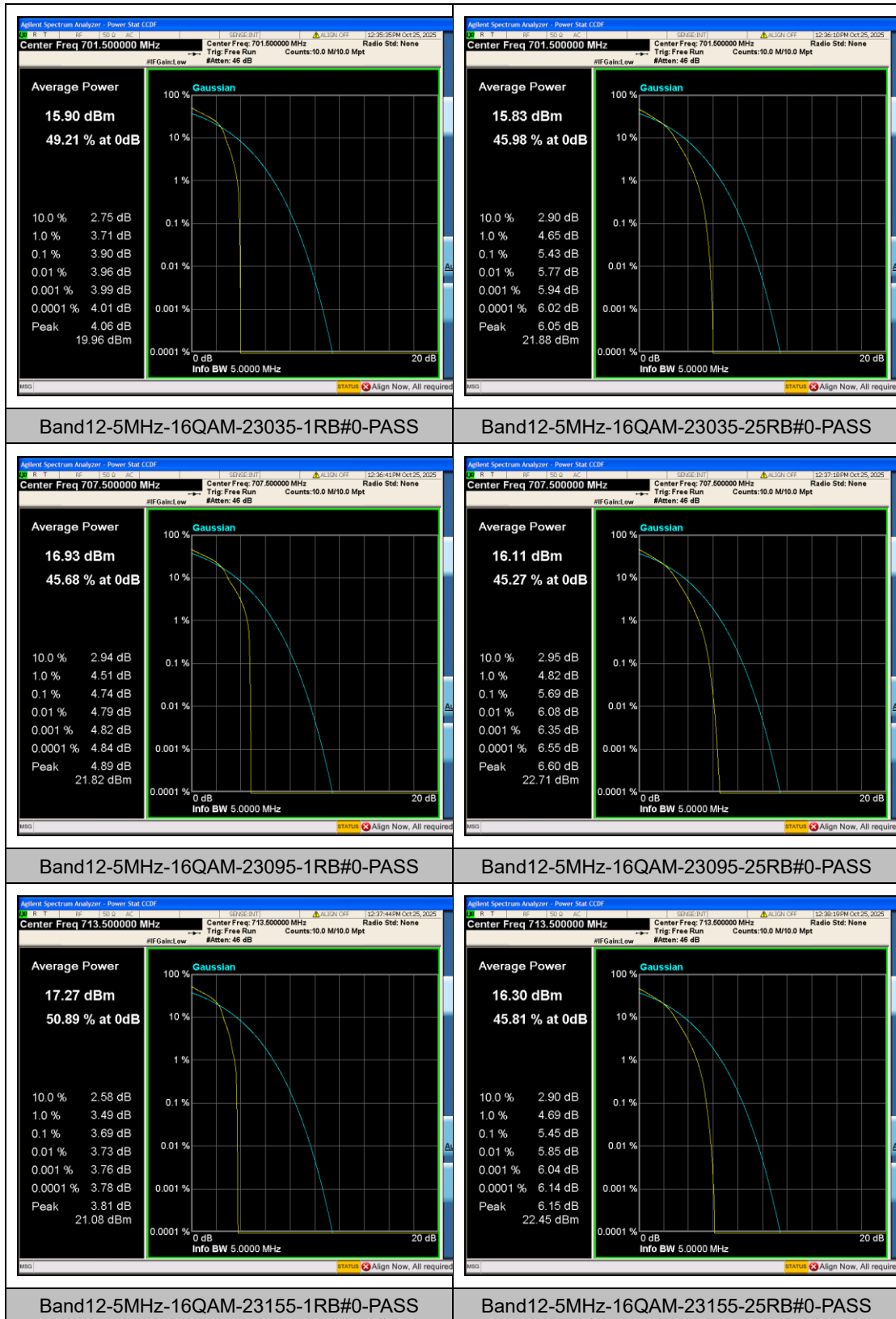


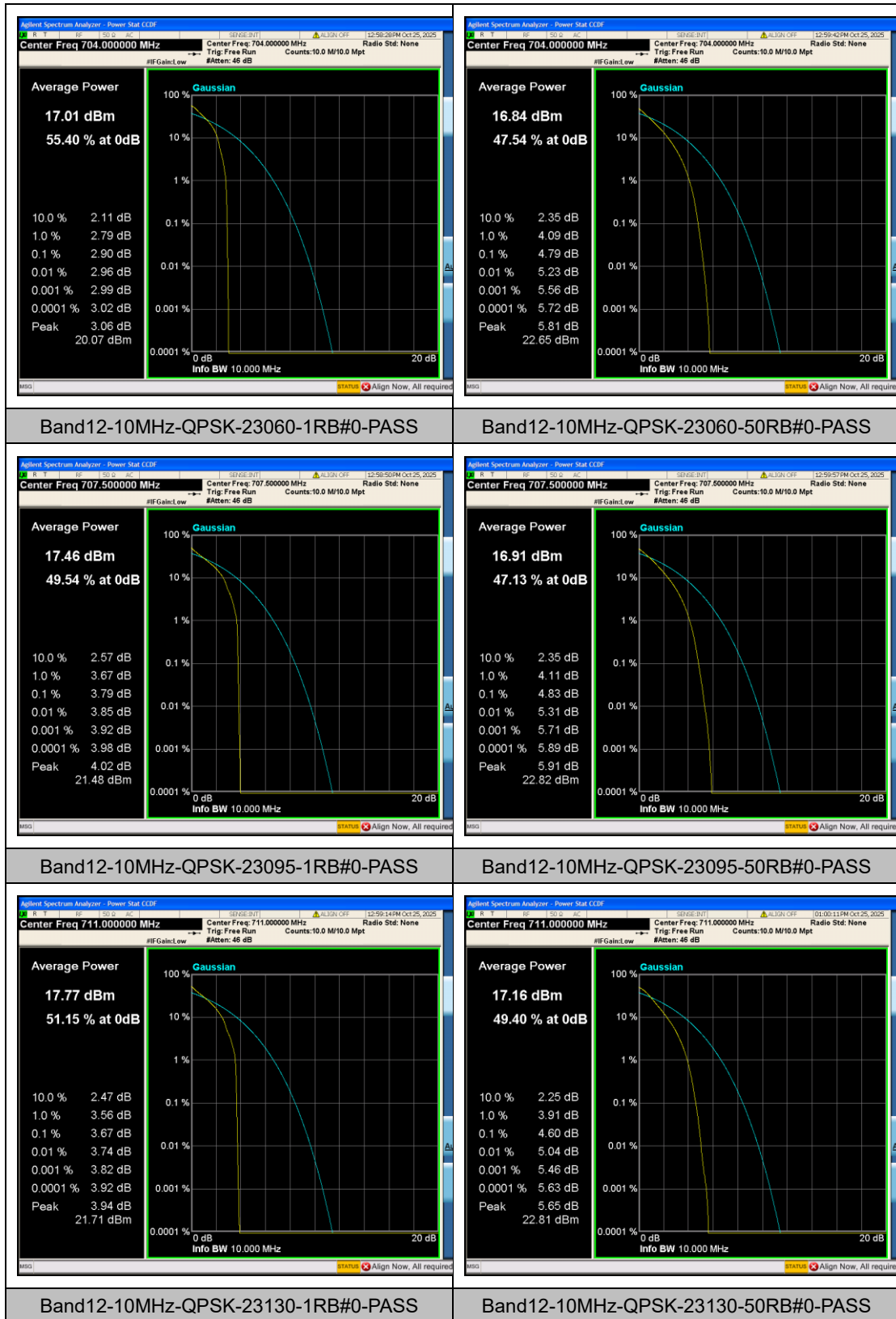


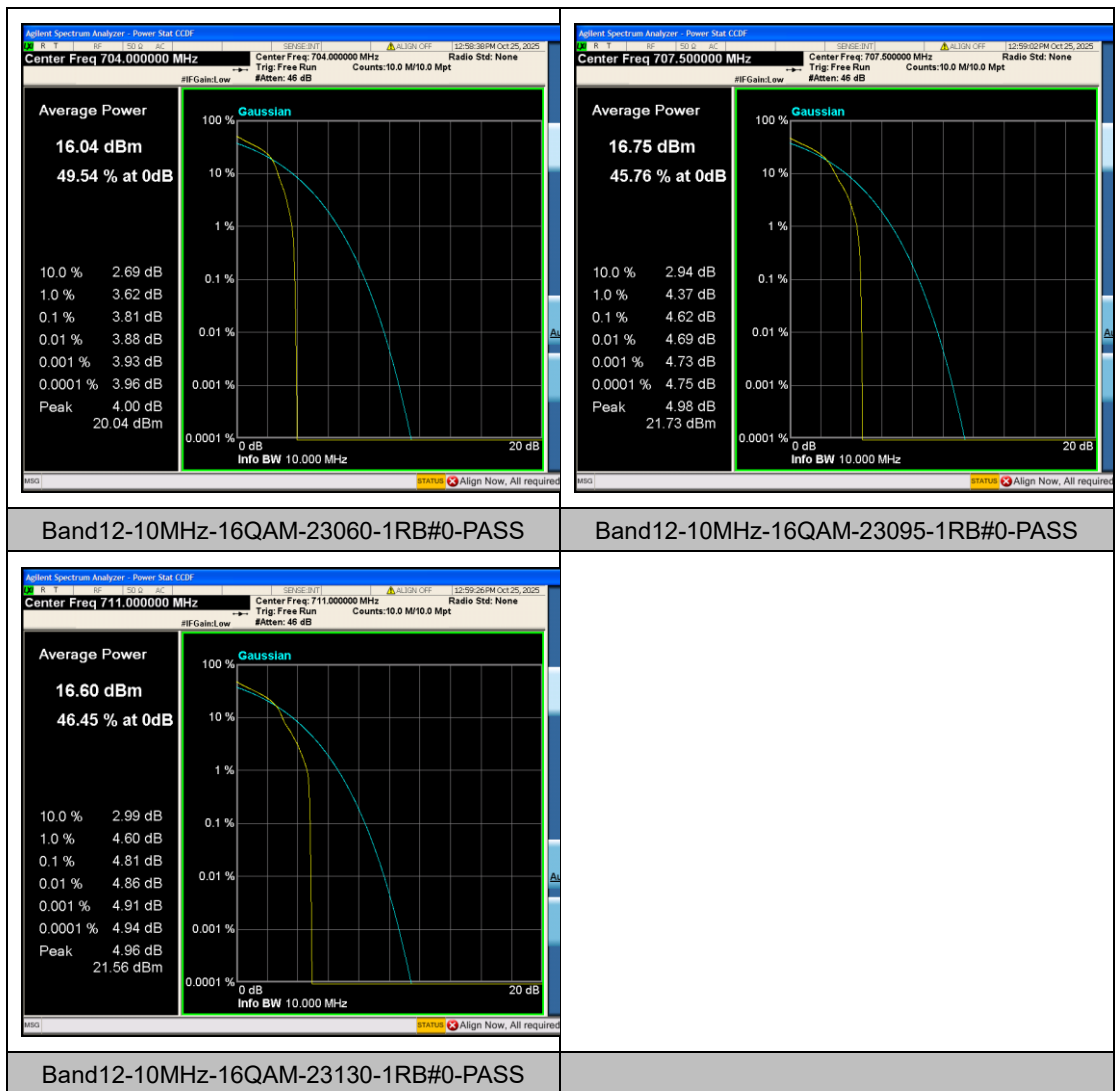










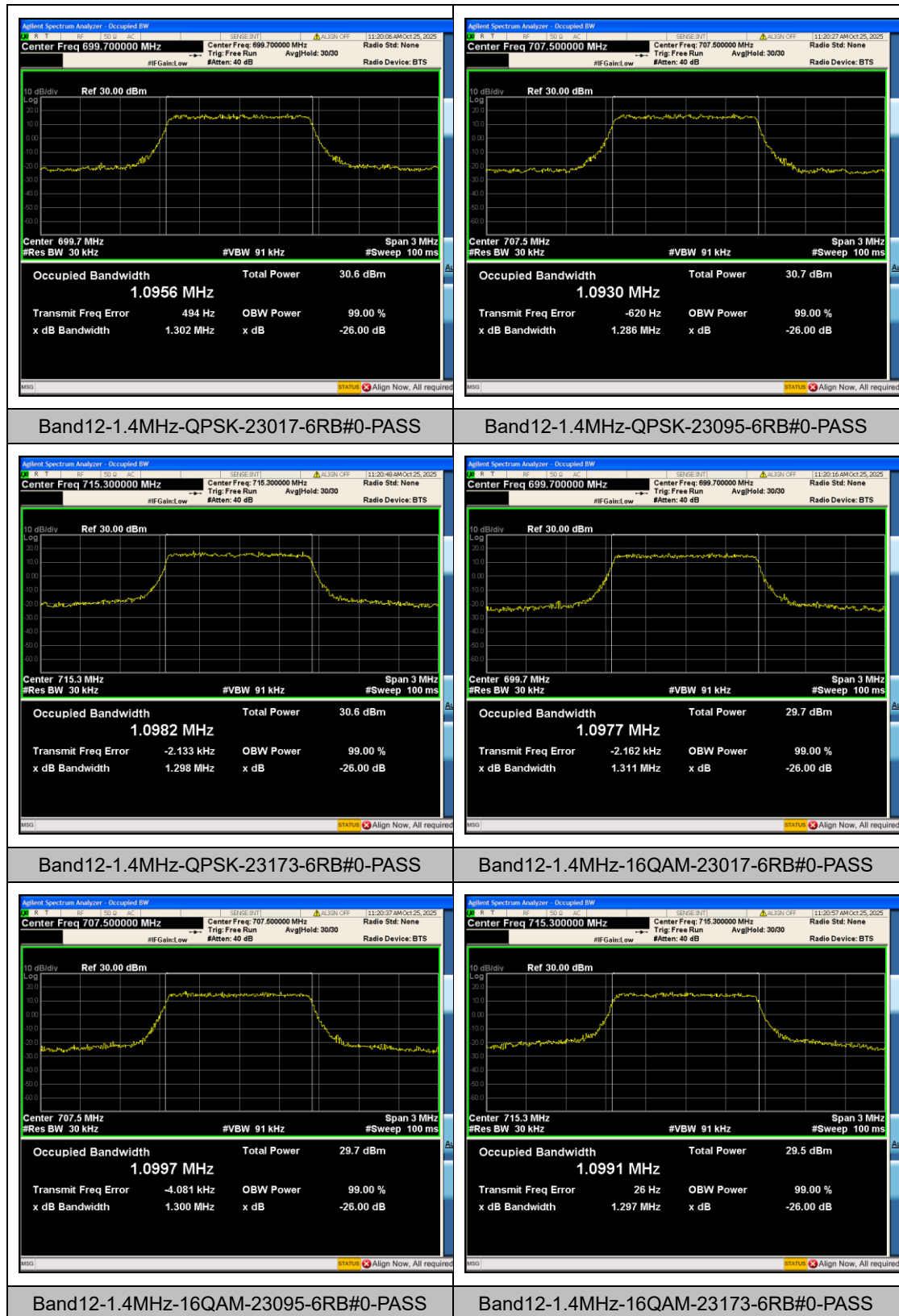


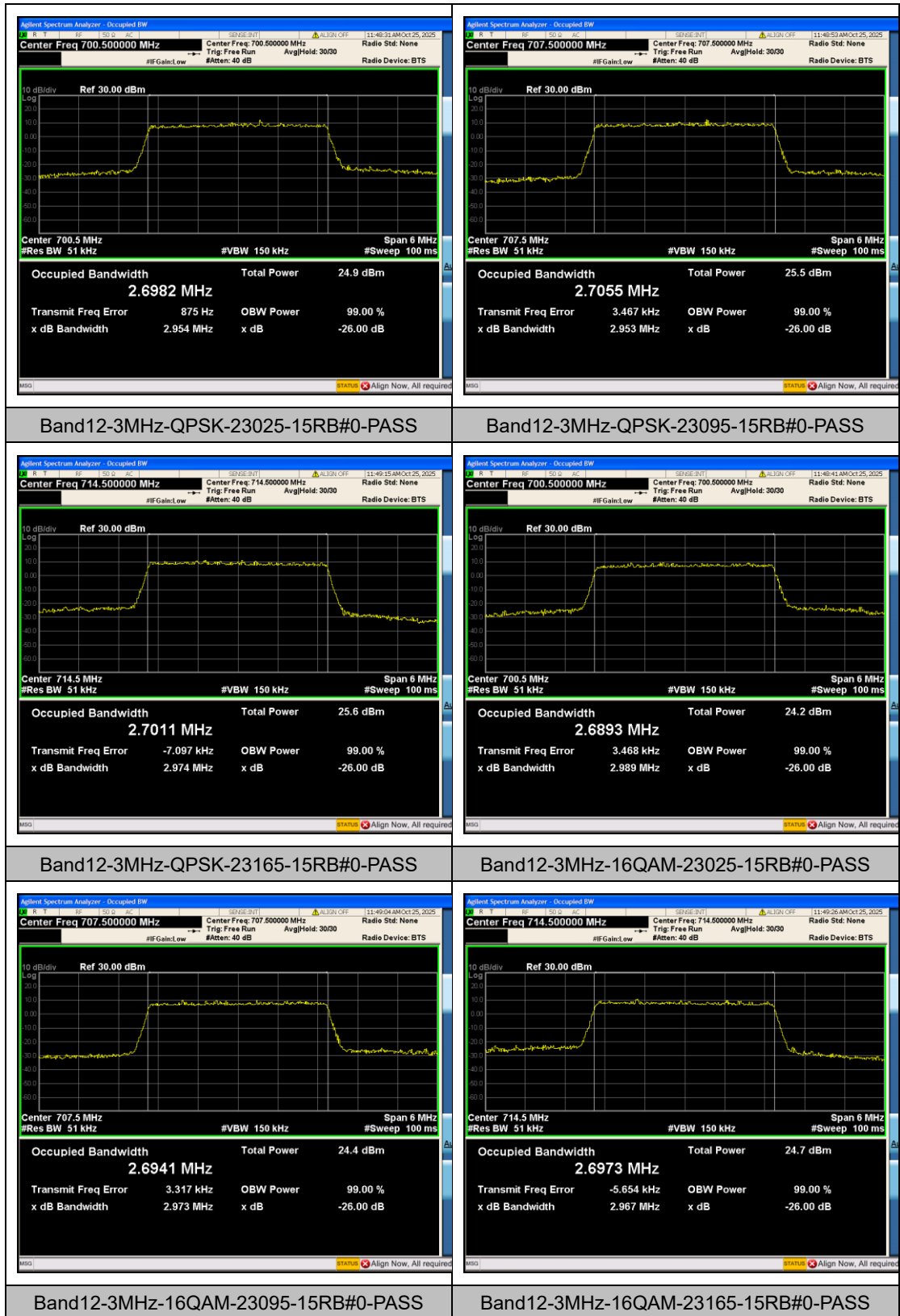
Appendix C: 26dB Bandwidth and Occupied Bandwidth

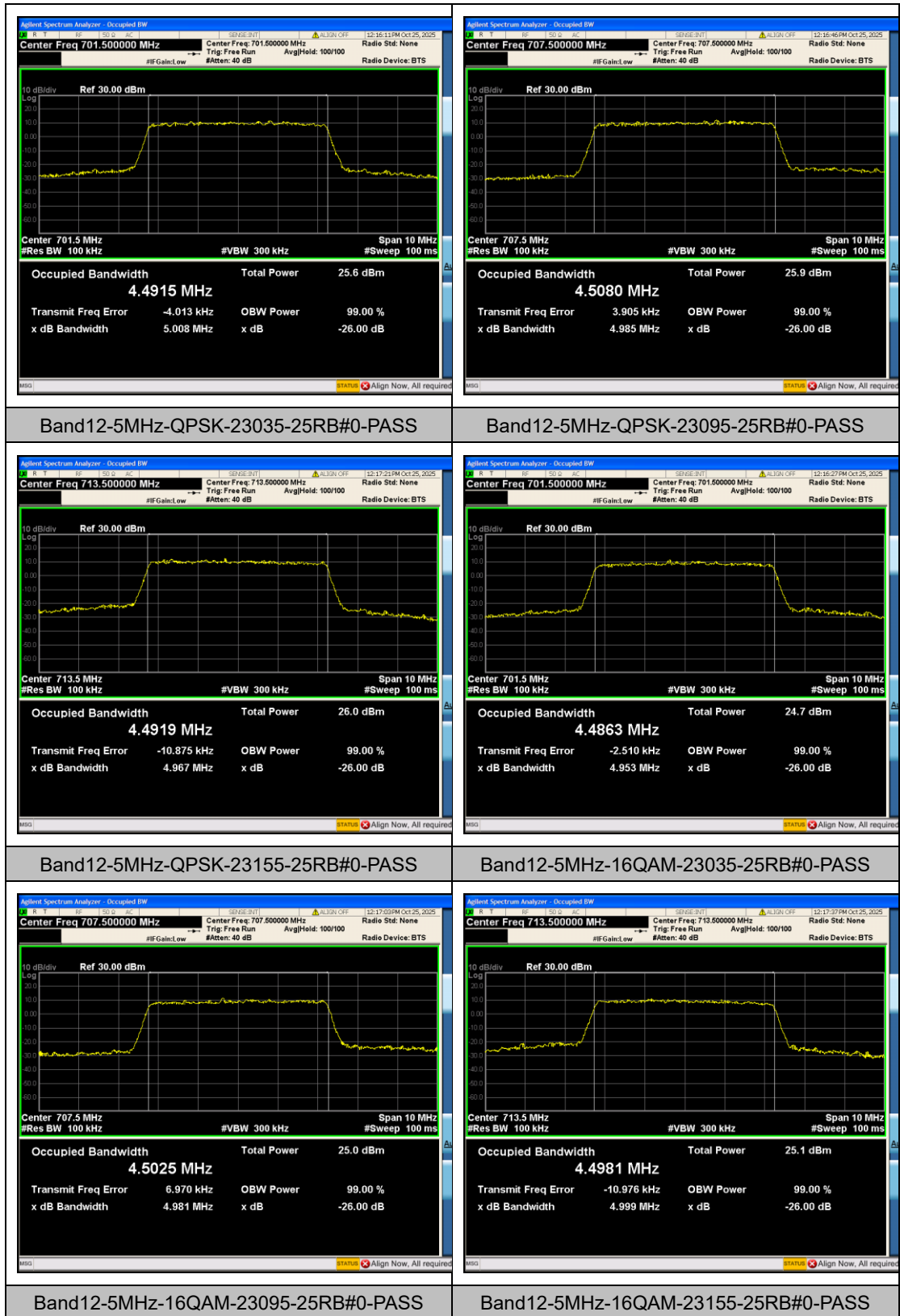
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.0956	1.302	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.0930	1.286	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.0982	1.298	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.0977	1.311	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.0997	1.300	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.0991	1.297	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.6982	2.954	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.7055	2.953	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.7011	2.974	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.6893	2.989	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.6941	2.973	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.6973	2.967	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.4915	5.008	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.5080	4.985	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.4919	4.967	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.4863	4.953	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.5025	4.981	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.4981	4.999	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.9707	9.916	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.9907	9.888	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.9243	9.780	PASS
Band12	10MHz	16QAM	23060	27RB#0	4.9691	5.830	PASS
Band12	10MHz	16QAM	23095	27RB#0	5.0179	5.879	PASS
Band12	10MHz	16QAM	23130	27RB#0	4.9820	5.956	PASS

Test Graphs







Band12-5MHz-QPSK-23035-25RB#0-PASS

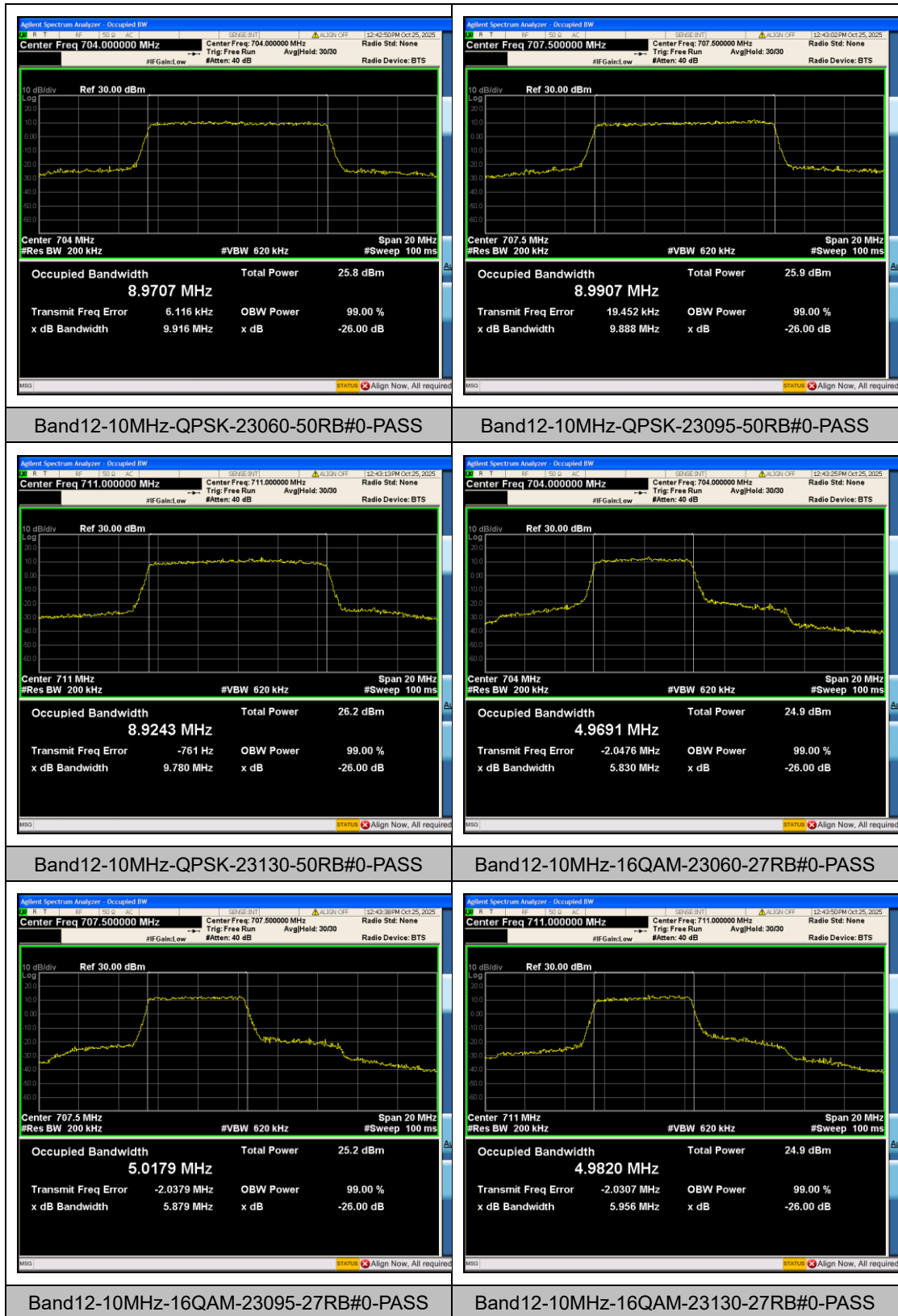
Band12-5MHz-QPSK-23095-25RB#0-PASS

Band12-5MHz-QPSK-23155-25RB#0-PASS

Band12-5MHz-16QAM-23035-25RB#0-PASS

Band12-5MHz-16QAM-23095-25RB#0-PASS

Band12-5MHz-16QAM-23155-25RB#0-PASS



Appendix D: Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	-20.43	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	-51.92	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	-29.52	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	-50.00	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	-25.51	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	-32.64	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	-28.13	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	-52.29	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	-33.06	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	-50.98	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	-27.88	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	-32.01	PASS
Band12	3MHz	QPSK	23025	1RB#0	-25.89	PASS
Band12	3MHz	QPSK	23025	1RB#14	-50.94	PASS
Band12	3MHz	QPSK	23025	15RB#0	-32.81	PASS
Band12	3MHz	QPSK	23165	1RB#0	-50.27	PASS
Band12	3MHz	QPSK	23165	1RB#14	-25.84	PASS
Band12	3MHz	QPSK	23165	15RB#0	-35.53	PASS
Band12	3MHz	16QAM	23025	1RB#0	-27.27	PASS
Band12	3MHz	16QAM	23025	1RB#14	-51.29	PASS
Band12	3MHz	16QAM	23025	15RB#0	-35.99	PASS
Band12	3MHz	16QAM	23165	1RB#0	-50.80	PASS
Band12	3MHz	16QAM	23165	1RB#14	-28.59	PASS
Band12	3MHz	16QAM	23165	15RB#0	-35.77	PASS
Band12	5MHz	QPSK	23035	1RB#0	-32.57	PASS
Band12	5MHz	QPSK	23035	1RB#24	-56.38	PASS
Band12	5MHz	QPSK	23035	25RB#0	-35.64	PASS
Band12	5MHz	QPSK	23155	1RB#0	-56.32	PASS
Band12	5MHz	QPSK	23155	1RB#24	-32.03	PASS
Band12	5MHz	QPSK	23155	25RB#0	-35.56	PASS
Band12	5MHz	16QAM	23035	1RB#0	-34.38	PASS
Band12	5MHz	16QAM	23035	1RB#24	-56.43	PASS
Band12	5MHz	16QAM	23035	25RB#0	-36.84	PASS
Band12	5MHz	16QAM	23155	1RB#0	-56.29	PASS
Band12	5MHz	16QAM	23155	1RB#24	-34.63	PASS
Band12	5MHz	16QAM	23155	25RB#0	-36.25	PASS
Band12	10MHz	QPSK	23060	1RB#0	-46.25	PASS

Band12	10MHz	QPSK	23060	1RB#49	-56.23	PASS
Band12	10MHz	QPSK	23060	50RB#0	-37.16	PASS
Band12	10MHz	QPSK	23130	1RB#0	-56.13	PASS
Band12	10MHz	QPSK	23130	1RB#49	-46.08	PASS
Band12	10MHz	QPSK	23130	50RB#0	-38.62	PASS
Band12	10MHz	16QAM	23060	1RB#0	-46.93	PASS
Band12	10MHz	16QAM	23060	1RB#49	-56.16	PASS
Band12	10MHz	16QAM	23130	1RB#0	-55.85	PASS
Band12	10MHz	16QAM	23130	1RB#49	-45.73	PASS

Test Graphs

