

FCC Appendix RF Test Data for LTE Band 2

FCC ID : 2BVMZ-Q153

Company : Shenzhen Yingtuo Intelligent Technology Co., Ltd

EUT : 4G kids smart watch

Model Number : Q153

Report No. : CTA26040900603

Reviewed By : Eric Wang

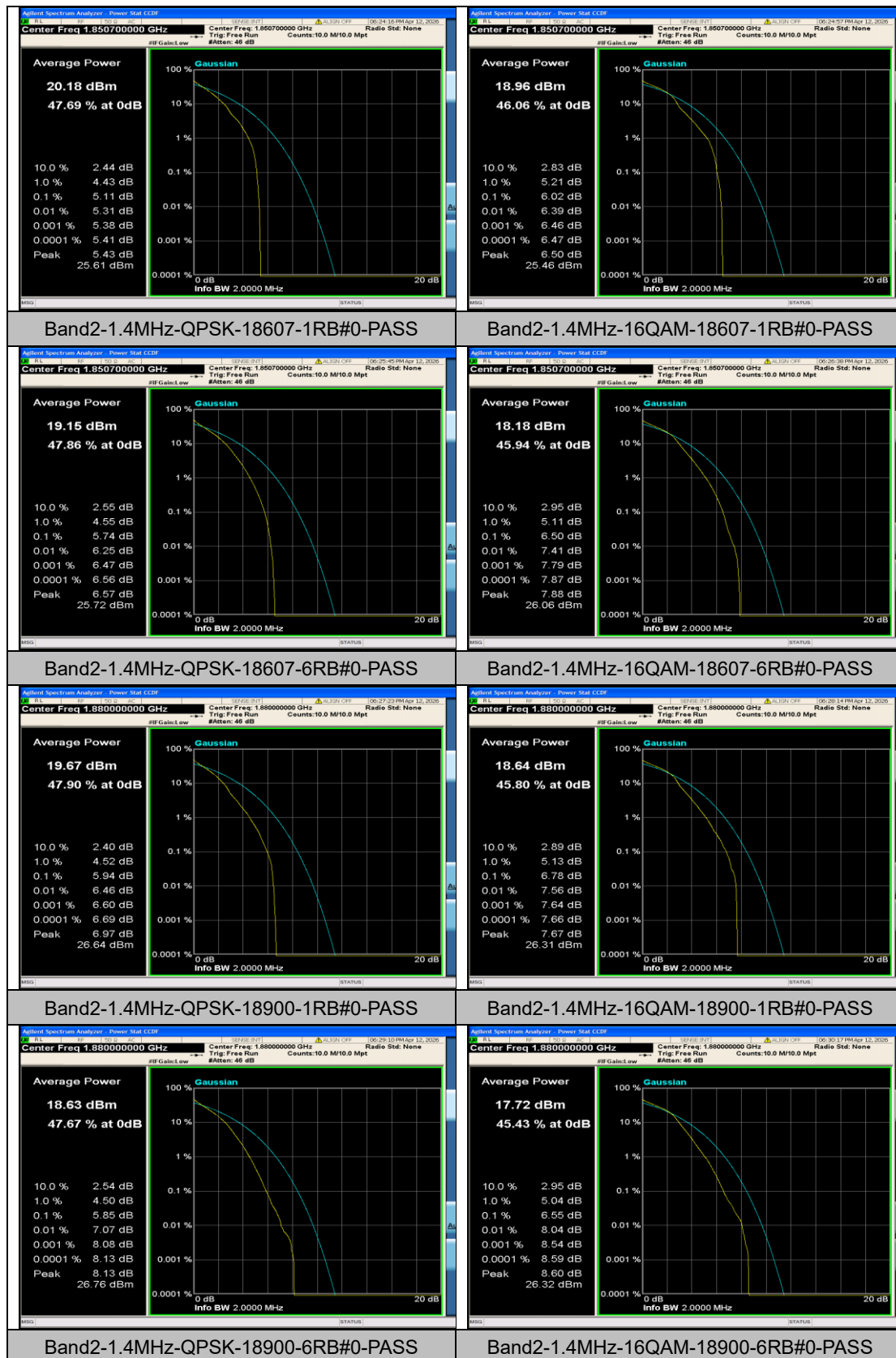
Appendix A: Peak-to-Average Ratio(CCDF)

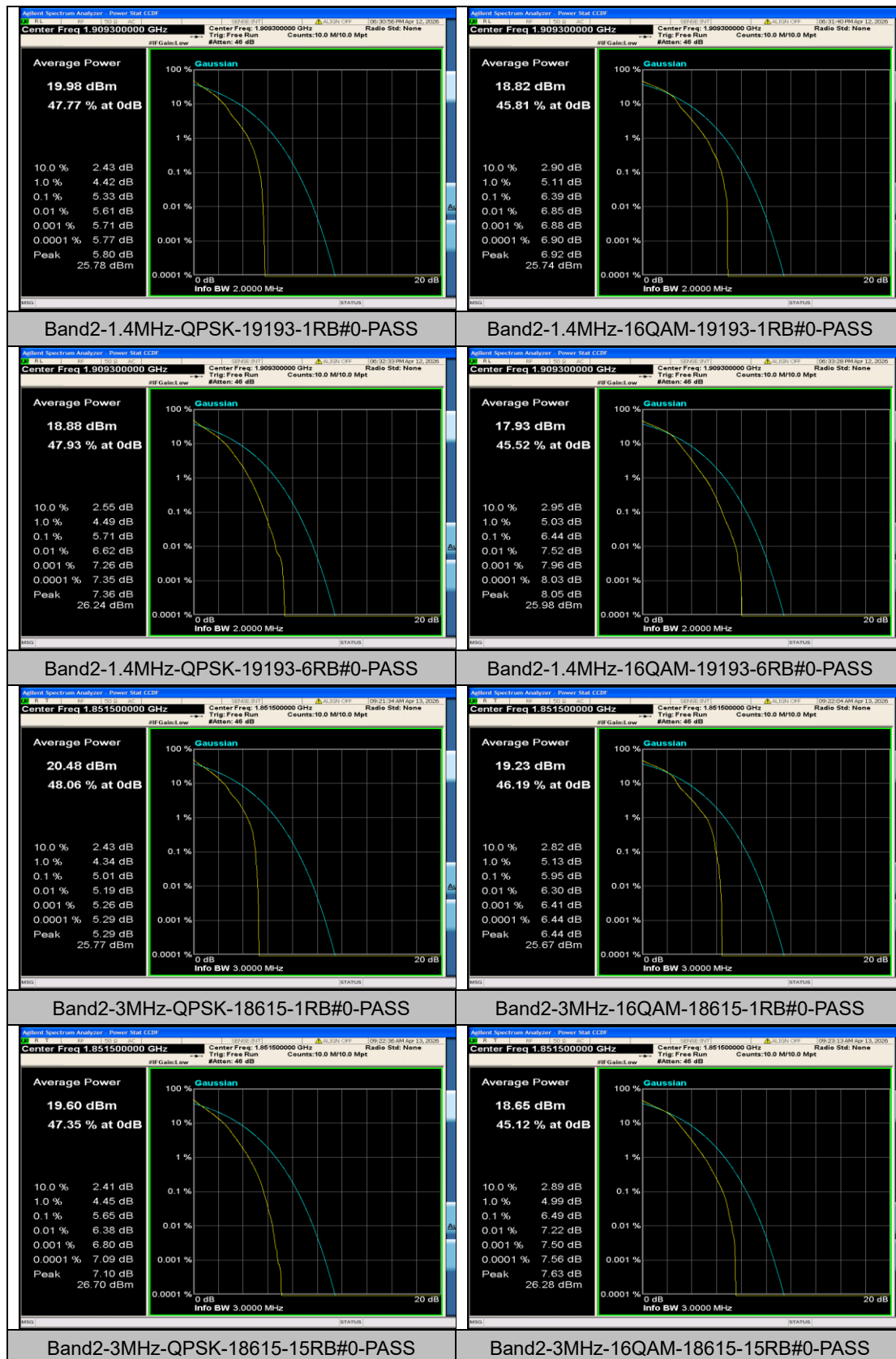
Test Result

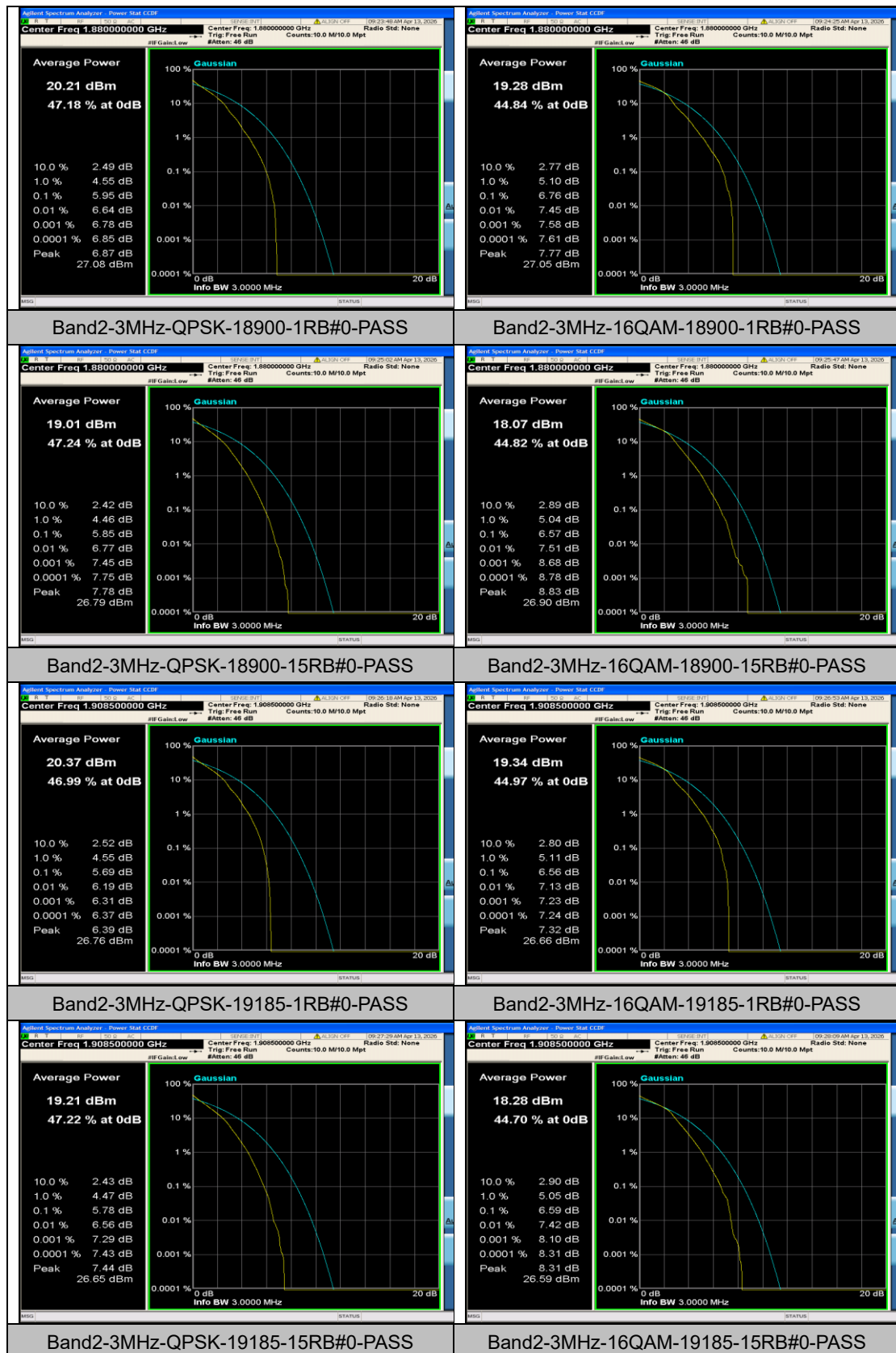
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band2	1.4MHz	QPSK	18607	1RB#0	5.11	13	PASS
Band2	1.4MHz	16QAM	18607	1RB#0	6.02	13	PASS
Band2	1.4MHz	QPSK	18607	6RB#0	5.74	13	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	6.50	13	PASS
Band2	1.4MHz	QPSK	18900	1RB#0	5.94	13	PASS
Band2	1.4MHz	16QAM	18900	1RB#0	6.78	13	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	5.85	13	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	6.55	13	PASS
Band2	1.4MHz	QPSK	19193	1RB#0	5.33	13	PASS
Band2	1.4MHz	16QAM	19193	1RB#0	6.39	13	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	5.71	13	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	6.44	13	PASS
Band2	3MHz	QPSK	18615	1RB#0	5.01	13	PASS
Band2	3MHz	16QAM	18615	1RB#0	5.95	13	PASS
Band2	3MHz	QPSK	18615	15RB#0	5.65	13	PASS
Band2	3MHz	16QAM	18615	15RB#0	6.49	13	PASS
Band2	3MHz	QPSK	18900	1RB#0	5.95	13	PASS
Band2	3MHz	16QAM	18900	1RB#0	6.76	13	PASS
Band2	3MHz	QPSK	18900	15RB#0	5.85	13	PASS
Band2	3MHz	16QAM	18900	15RB#0	6.57	13	PASS
Band2	3MHz	QPSK	19185	1RB#0	5.69	13	PASS
Band2	3MHz	16QAM	19185	1RB#0	6.56	13	PASS
Band2	3MHz	QPSK	19185	15RB#0	5.78	13	PASS
Band2	3MHz	16QAM	19185	15RB#0	6.59	13	PASS
Band2	5MHz	QPSK	18625	1RB#0	4.48	13	PASS
Band2	5MHz	16QAM	18625	1RB#0	5.24	13	PASS
Band2	5MHz	QPSK	18625	25RB#0	5.30	13	PASS
Band2	5MHz	16QAM	18625	25RB#0	6.02	13	PASS
Band2	5MHz	QPSK	18900	1RB#0	5.04	13	PASS
Band2	5MHz	16QAM	18900	1RB#0	5.61	13	PASS
Band2	5MHz	QPSK	18900	25RB#0	5.53	13	PASS
Band2	5MHz	16QAM	18900	25RB#0	6.24	13	PASS
Band2	5MHz	QPSK	19175	1RB#0	4.98	13	PASS
Band2	5MHz	16QAM	19175	1RB#0	5.48	13	PASS
Band2	5MHz	QPSK	19175	25RB#0	5.43	13	PASS
Band2	5MHz	16QAM	19175	25RB#0	6.14	13	PASS
Band2	10MHz	QPSK	18650	1RB#0	4.40	13	PASS

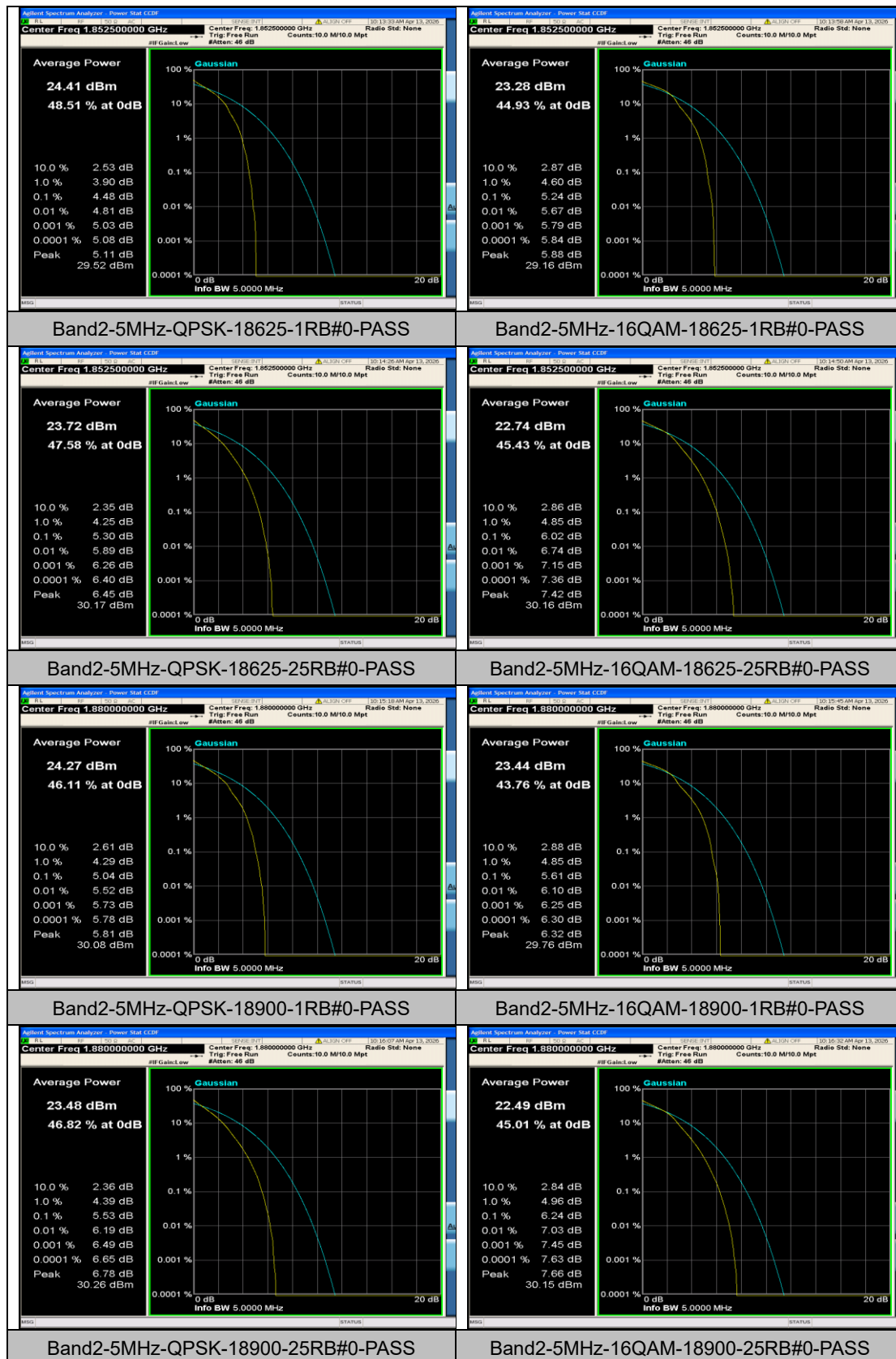
Band2	10MHz	16QAM	18650	1RB#0	5.14	13	PASS
Band2	10MHz	QPSK	18900	1RB#0	4.88	13	PASS
Band2	10MHz	16QAM	18900	1RB#0	5.89	13	PASS
Band2	10MHz	QPSK	19150	1RB#0	5.01	13	PASS
Band2	10MHz	16QAM	19150	1RB#0	5.80	13	PASS
Band2	10MHz	QPSK	18650	50RB#0	5.27	13	PASS
Band2	10MHz	QPSK	18900	50RB#0	5.64	13	PASS
Band2	10MHz	QPSK	19150	50RB#0	5.67	13	PASS
Band2	15MHz	QPSK	18675	1RB#0	4.30	13	PASS
Band2	15MHz	16QAM	18675	1RB#0	5.09	13	PASS
Band2	15MHz	QPSK	18900	1RB#0	4.85	13	PASS
Band2	15MHz	16QAM	18900	1RB#0	5.85	13	PASS
Band2	15MHz	QPSK	19125	1RB#0	4.65	13	PASS
Band2	15MHz	16QAM	19125	1RB#0	5.54	13	PASS
Band2	15MHz	QPSK	18675	75RB#0	5.58	13	PASS
Band2	15MHz	QPSK	18900	75RB#0	5.97	13	PASS
Band2	15MHz	QPSK	19125	75RB#0	5.98	13	PASS
Band2	20MHz	QPSK	18700	1RB#0	4.18	13	PASS
Band2	20MHz	QPSK	18900	1RB#0	5.18	13	PASS
Band2	20MHz	QPSK	19100	1RB#0	4.94	13	PASS
Band2	20MHz	QPSK	18700	100RB#0	5.29	13	PASS
Band2	20MHz	QPSK	18900	100RB#0	5.70	13	PASS
Band2	20MHz	QPSK	19100	100RB#0	5.68	13	PASS

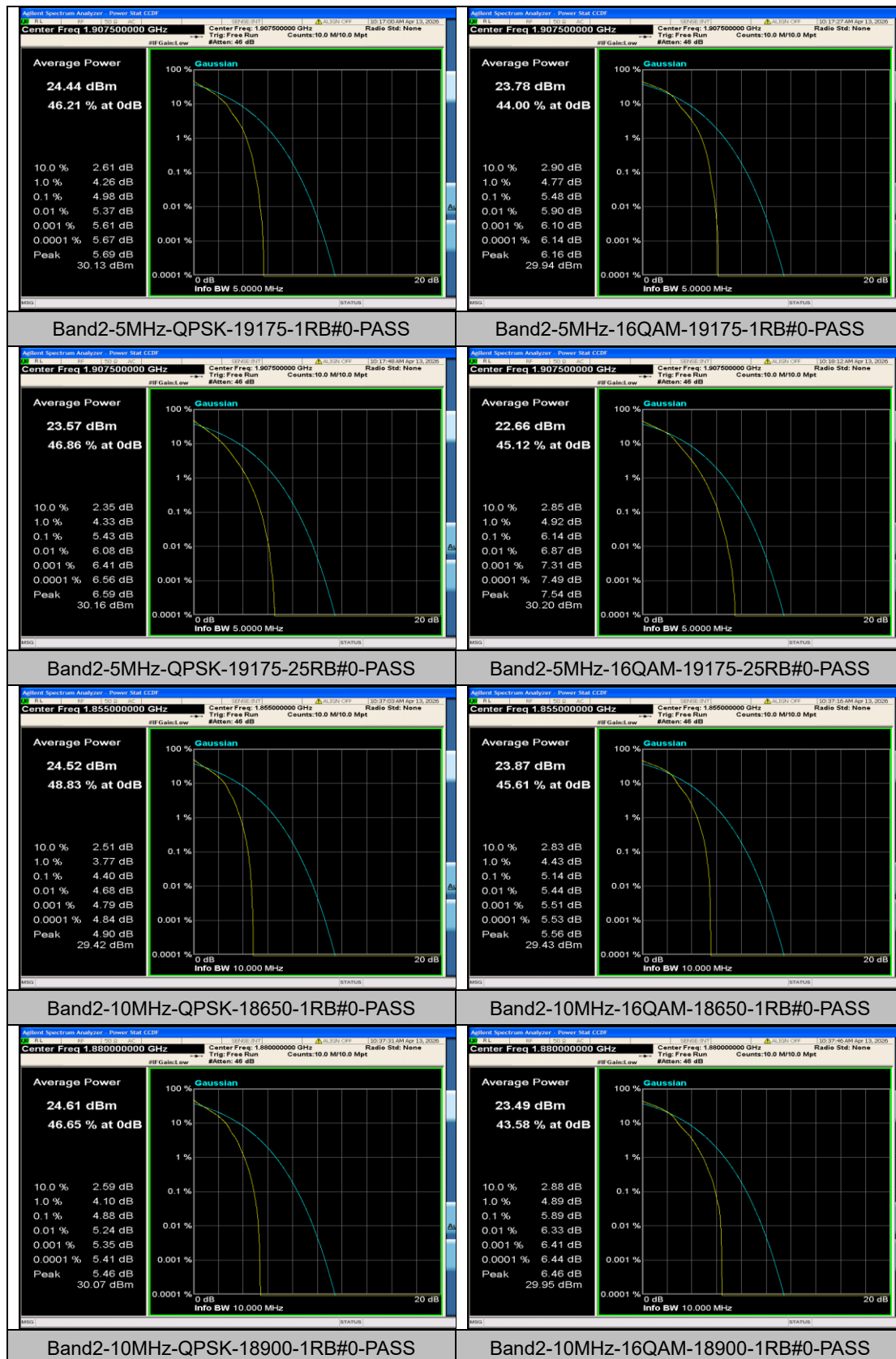
Test Graphs

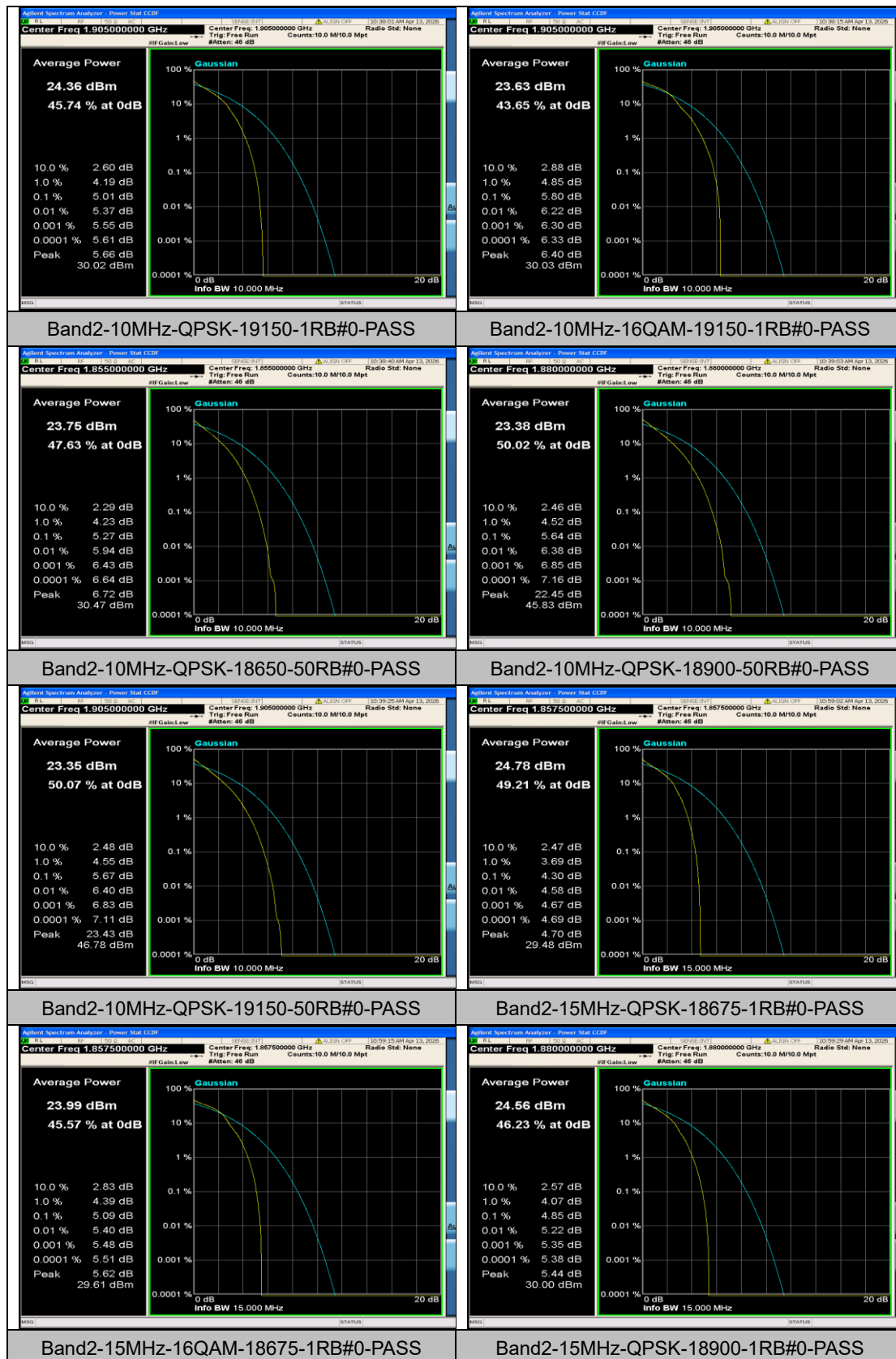


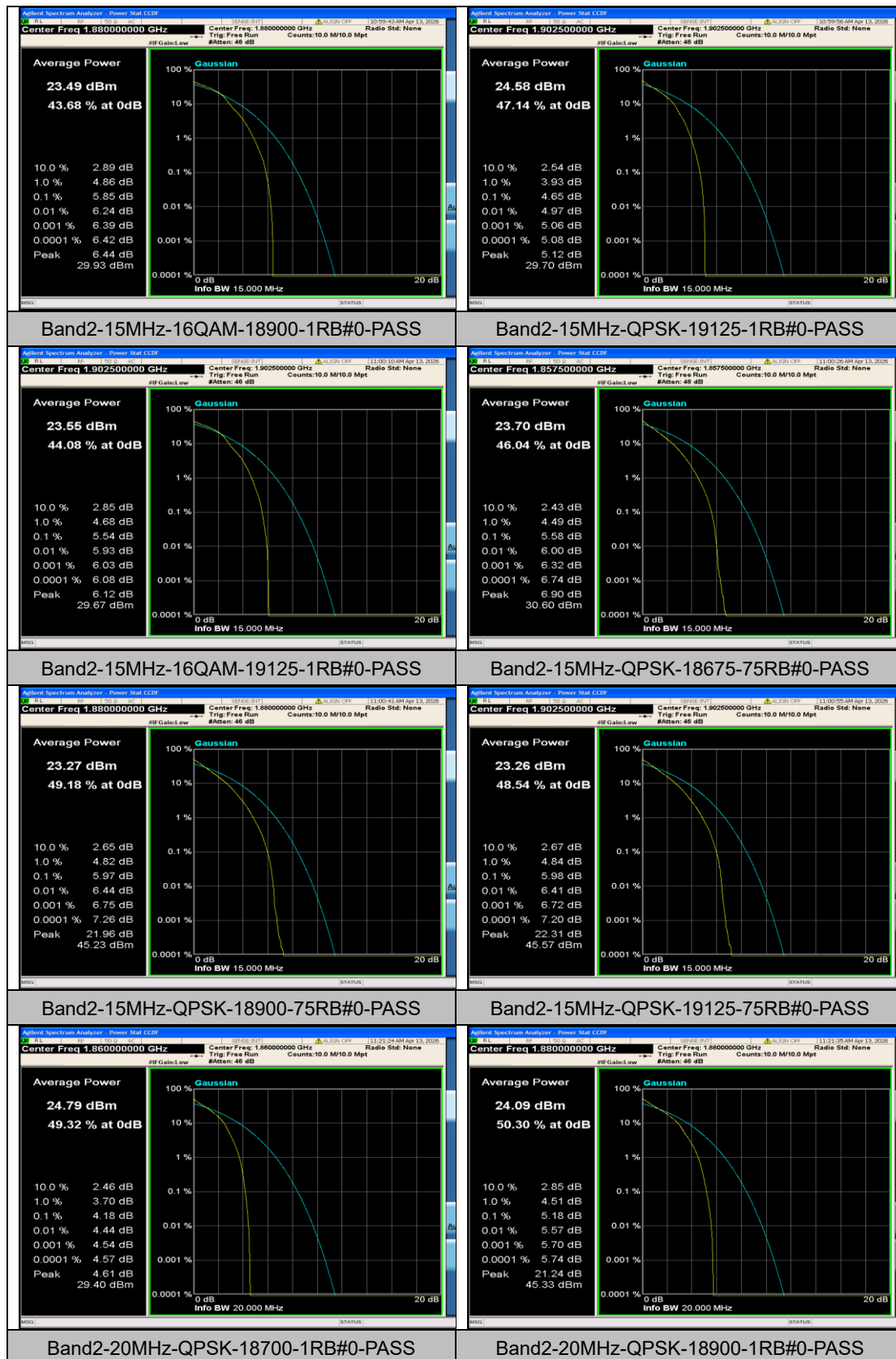


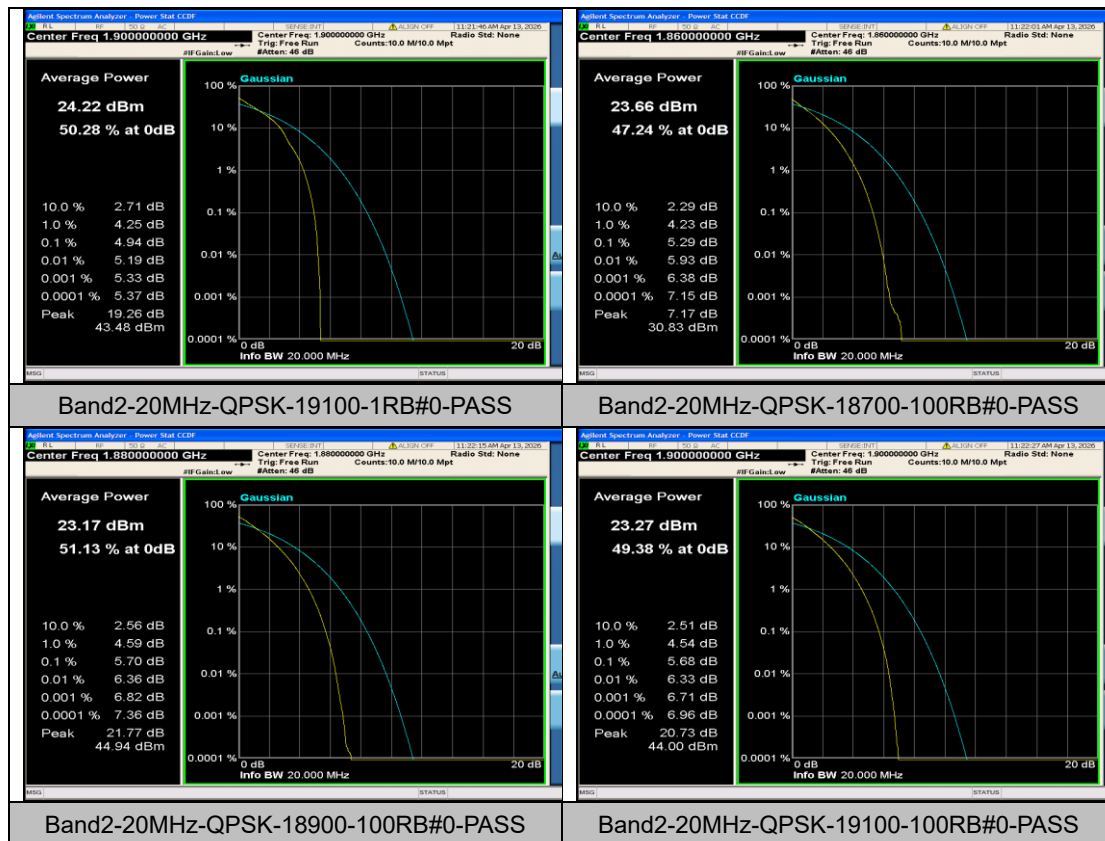












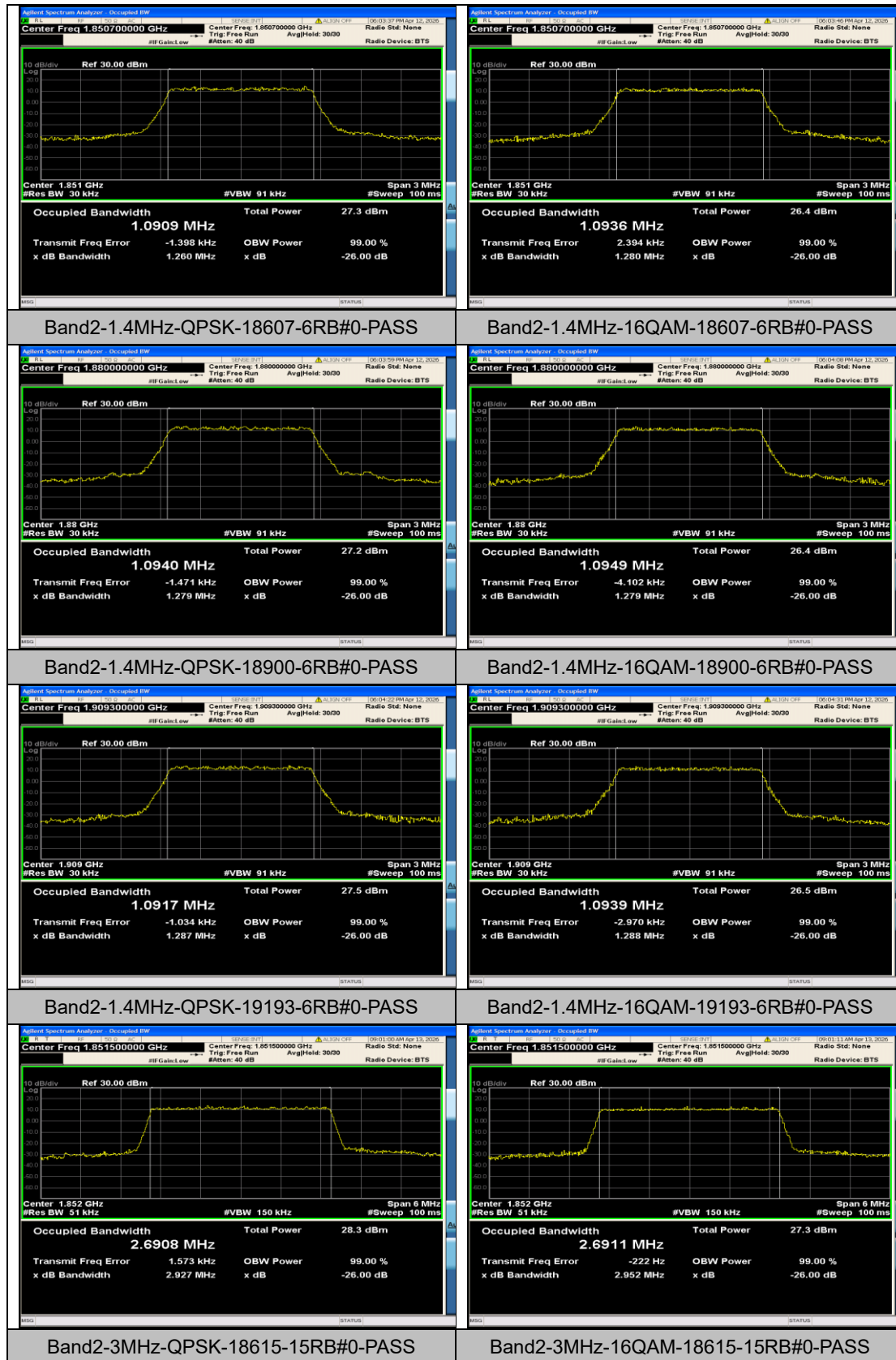
Appendix B: 26dB Bandwidth and Occupied Bandwidth

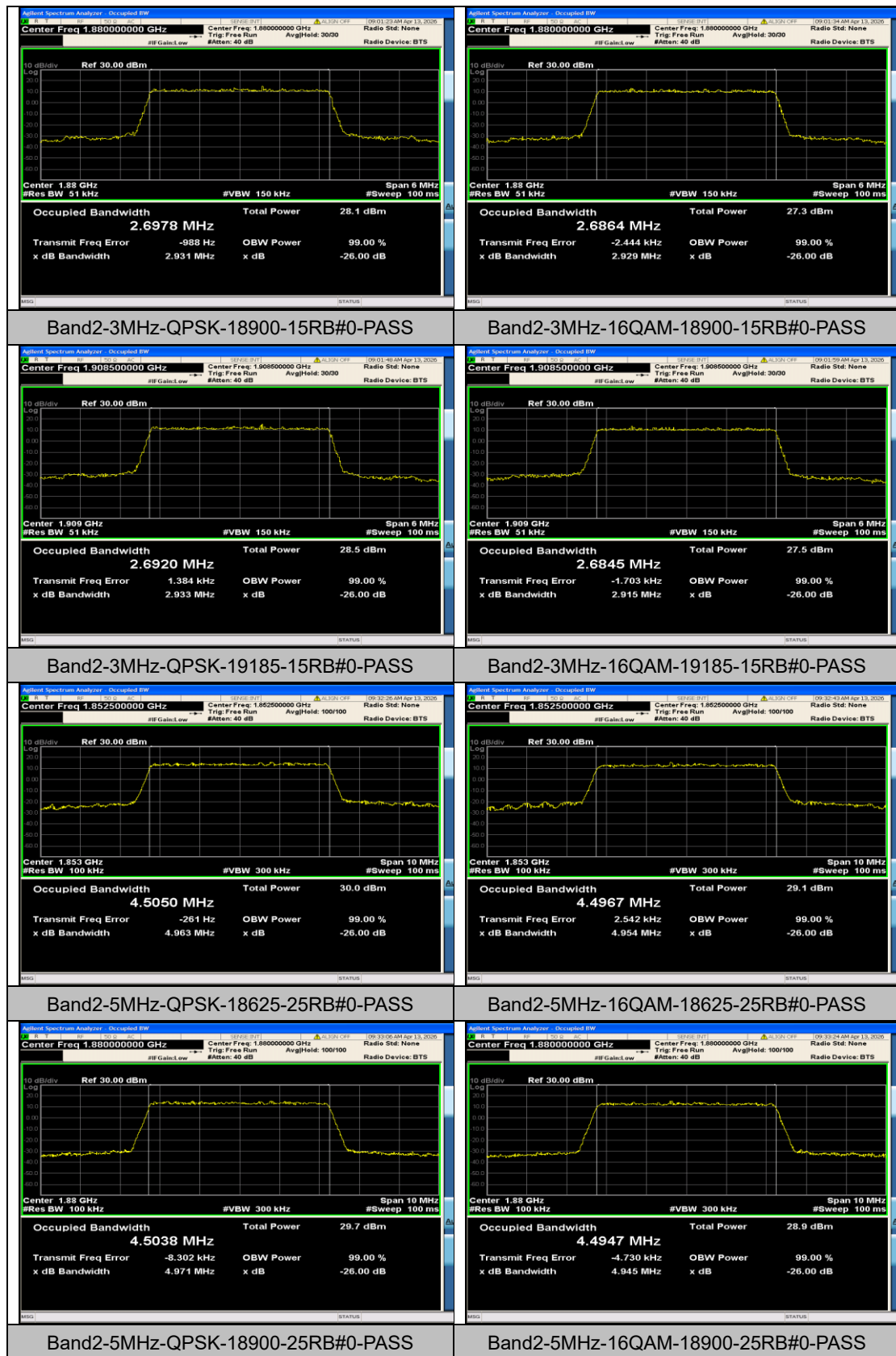
Test Result

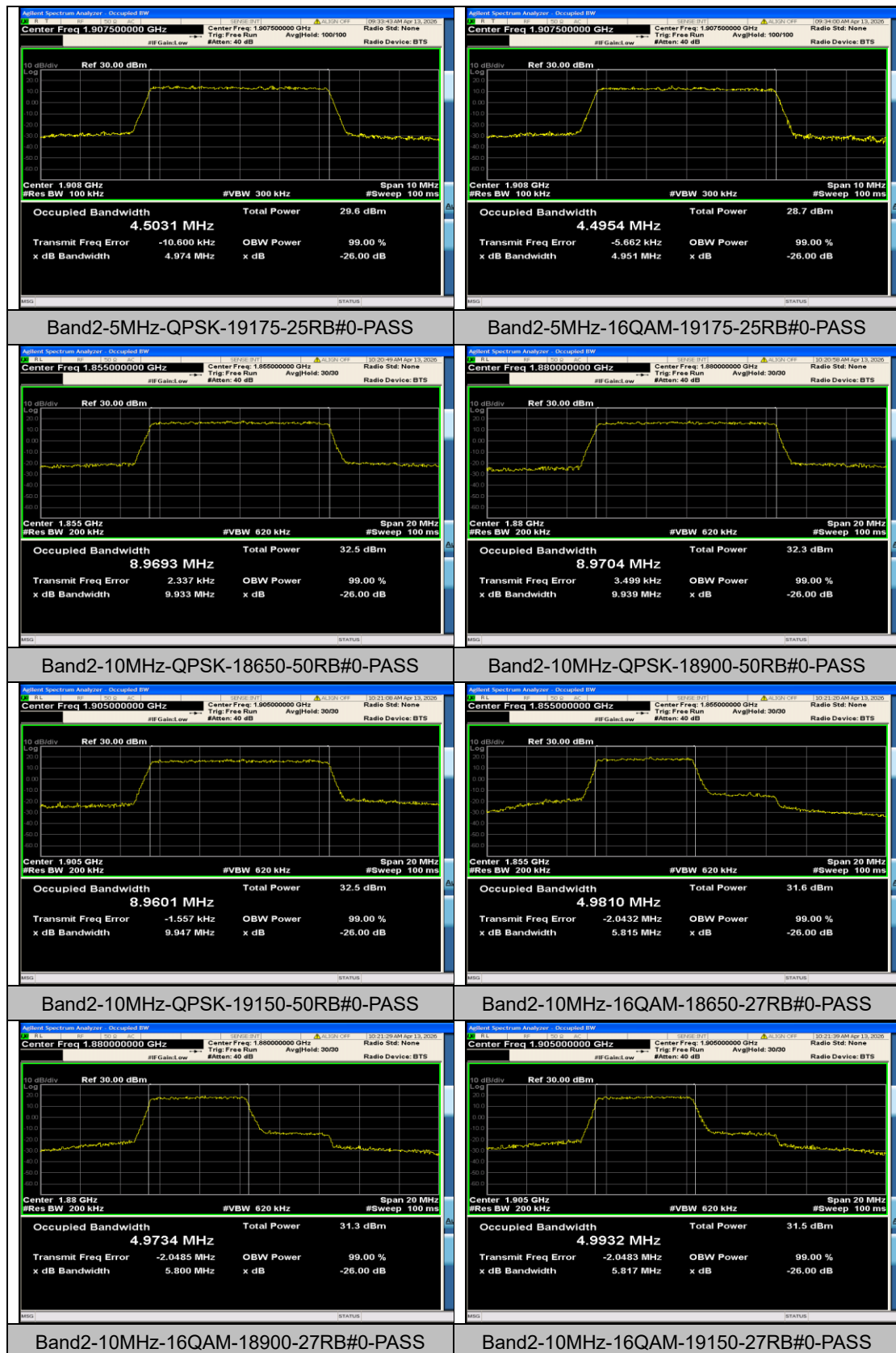
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band2	1.4MHz	QPSK	18607	6RB#0	1.0909	1.260	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	1.0936	1.280	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	1.0940	1.279	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	1.0949	1.279	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	1.0917	1.287	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	1.0939	1.288	PASS
Band2	3MHz	QPSK	18615	15RB#0	2.6908	2.927	PASS
Band2	3MHz	16QAM	18615	15RB#0	2.6911	2.952	PASS
Band2	3MHz	QPSK	18900	15RB#0	2.6978	2.931	PASS
Band2	3MHz	16QAM	18900	15RB#0	2.6864	2.929	PASS
Band2	3MHz	QPSK	19185	15RB#0	2.6920	2.933	PASS
Band2	3MHz	16QAM	19185	15RB#0	2.6845	2.915	PASS
Band2	5MHz	QPSK	18625	25RB#0	4.5050	4.963	PASS
Band2	5MHz	16QAM	18625	25RB#0	4.4967	4.954	PASS
Band2	5MHz	QPSK	18900	25RB#0	4.5038	4.971	PASS
Band2	5MHz	16QAM	18900	25RB#0	4.4947	4.945	PASS
Band2	5MHz	QPSK	19175	25RB#0	4.5031	4.974	PASS
Band2	5MHz	16QAM	19175	25RB#0	4.4954	4.951	PASS
Band2	10MHz	QPSK	18650	50RB#0	8.9693	9.933	PASS
Band2	10MHz	QPSK	18900	50RB#0	8.9704	9.939	PASS
Band2	10MHz	QPSK	19150	50RB#0	8.9601	9.947	PASS
Band2	10MHz	16QAM	18650	27RB#0	4.9810	5.815	PASS
Band2	10MHz	16QAM	18900	27RB#0	4.9734	5.800	PASS
Band2	10MHz	16QAM	19150	27RB#0	4.9932	5.817	PASS
Band2	15MHz	QPSK	18675	75RB#0	13.441	14.78	PASS
Band2	15MHz	QPSK	18900	75RB#0	13.431	14.78	PASS
Band2	15MHz	QPSK	19125	75RB#0	13.452	14.78	PASS
Band2	15MHz	16QAM	18675	27RB#0	5.1064	6.086	PASS
Band2	15MHz	16QAM	18900	27RB#0	5.0842	6.072	PASS
Band2	15MHz	16QAM	19125	27RB#0	5.0788	6.105	PASS
Band2	20MHz	QPSK	18700	100RB#0	17.909	19.47	PASS
Band2	20MHz	QPSK	18900	100RB#0	17.934	19.42	PASS
Band2	20MHz	QPSK	19100	100RB#0	17.909	19.52	PASS
Band2	20MHz	16QAM	18700	27RB#0	5.2497	6.445	PASS

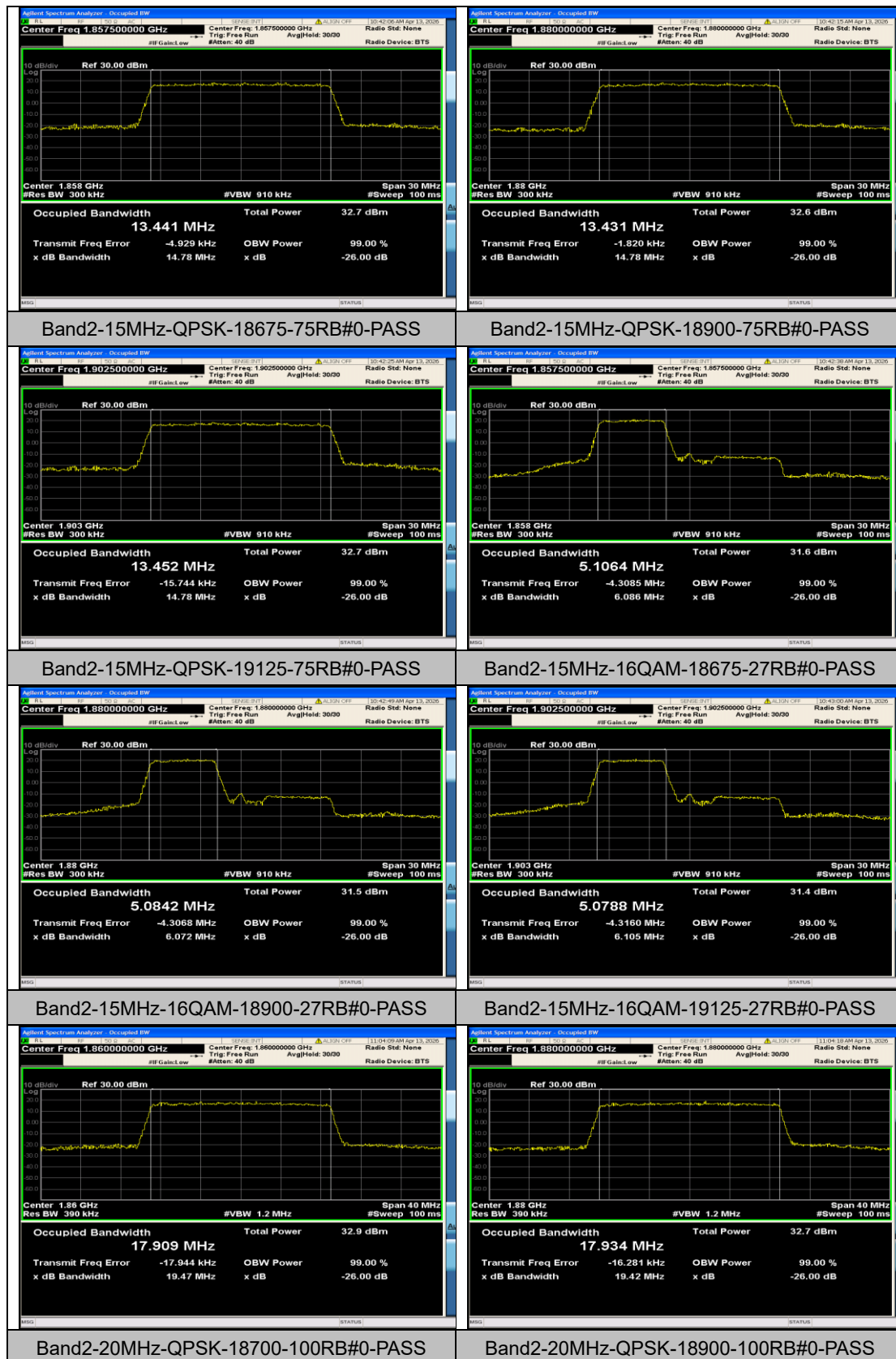
Band2	20MHz	16QAM	18900	27RB#0	5.2490	6.456	PASS
Band2	20MHz	16QAM	19100	27RB#0	5.2410	6.524	PASS

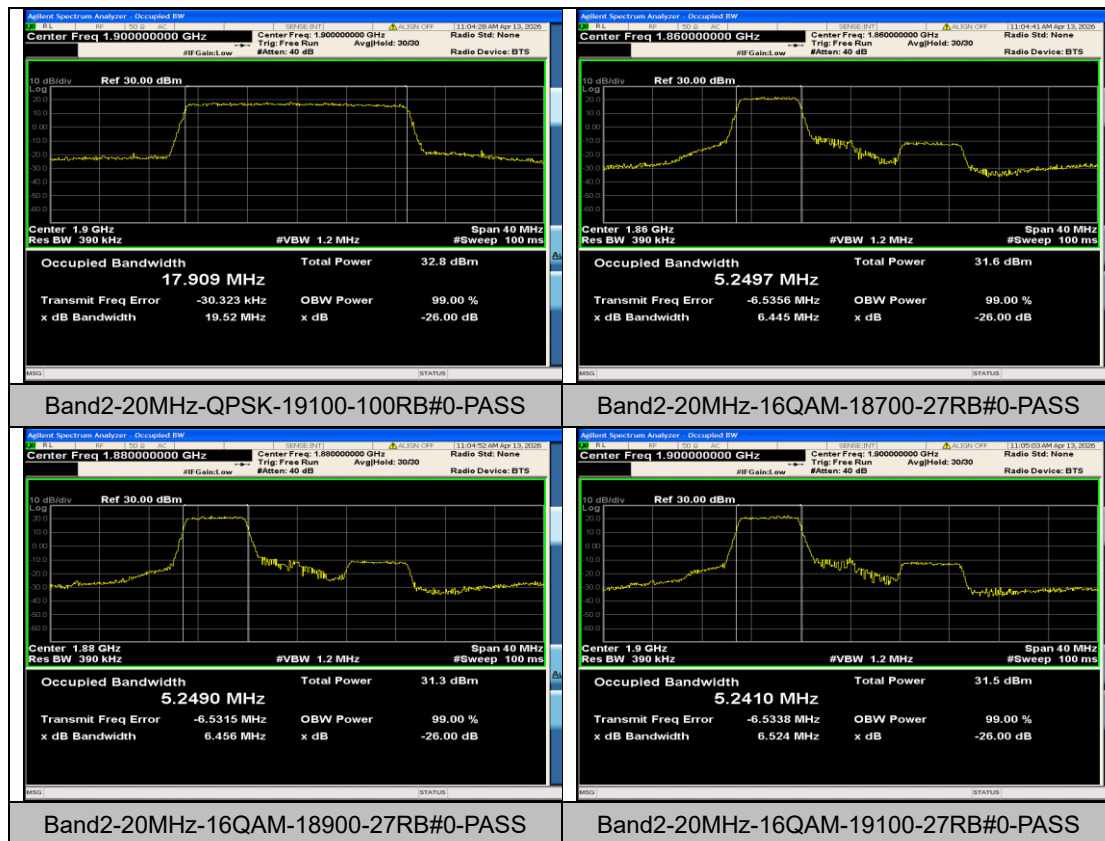
Test Graphs











Appendix C: Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band2	1.4MHz	QPSK	18607	1RB#0	-38.36	PASS
Band2	1.4MHz	16QAM	18607	1RB#0	-28.88	PASS
Band2	1.4MHz	QPSK	18607	1RB#5	-42.01	PASS
Band2	1.4MHz	16QAM	18607	1RB#5	-41.79	PASS
Band2	1.4MHz	QPSK	18607	6RB#0	-32.75	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	-31.57	PASS
Band2	1.4MHz	QPSK	19193	1RB#0	-38.98	PASS
Band2	1.4MHz	16QAM	19193	1RB#0	-39.29	PASS
Band2	1.4MHz	QPSK	19193	1RB#5	-29.53	PASS
Band2	1.4MHz	16QAM	19193	1RB#5	-36.70	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	-37.19	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	-33.62	PASS
Band2	3MHz	QPSK	18615	1RB#0	-26.09	PASS
Band2	3MHz	16QAM	18615	1RB#0	-28.29	PASS
Band2	3MHz	QPSK	18615	1RB#14	-48.23	PASS
Band2	3MHz	16QAM	18615	1RB#14	-48.99	PASS
Band2	3MHz	QPSK	18615	15RB#0	-35.74	PASS
Band2	3MHz	16QAM	18615	15RB#0	-39.16	PASS
Band2	3MHz	QPSK	19185	1RB#0	-47.42	PASS
Band2	3MHz	16QAM	19185	1RB#0	-48.53	PASS
Band2	3MHz	QPSK	19185	1RB#14	-27.97	PASS
Band2	3MHz	16QAM	19185	1RB#14	-29.52	PASS
Band2	3MHz	QPSK	19185	15RB#0	-38.52	PASS
Band2	3MHz	16QAM	19185	15RB#0	-39.71	PASS
Band2	5MHz	QPSK	18625	1RB#0	-27.89	PASS
Band2	5MHz	16QAM	18625	1RB#0	-29.43	PASS
Band2	5MHz	QPSK	18625	1RB#24	-50.29	PASS
Band2	5MHz	16QAM	18625	1RB#24	-50.37	PASS
Band2	5MHz	QPSK	18625	25RB#0	-34.05	PASS
Band2	5MHz	16QAM	18625	25RB#0	-37.41	PASS
Band2	5MHz	QPSK	19175	1RB#0	-50.08	PASS
Band2	5MHz	16QAM	19175	1RB#0	-50.84	PASS
Band2	5MHz	QPSK	19175	1RB#24	-28.92	PASS
Band2	5MHz	16QAM	19175	1RB#24	-29.62	PASS
Band2	5MHz	QPSK	19175	25RB#0	-38.05	PASS
Band2	5MHz	16QAM	19175	25RB#0	-39.46	PASS
Band2	10MHz	QPSK	18650	1RB#0	-36.73	PASS

Band2	10MHz	16QAM	18650	1RB#0	-37.92	PASS
Band2	10MHz	QPSK	18650	1RB#49	-52.84	PASS
Band2	10MHz	16QAM	18650	1RB#49	-53.57	PASS
Band2	10MHz	QPSK	19150	1RB#0	-53.08	PASS
Band2	10MHz	16QAM	19150	1RB#0	-53.13	PASS
Band2	10MHz	QPSK	19150	1RB#49	-35.97	PASS
Band2	10MHz	16QAM	19150	1RB#49	-37.33	PASS
Band2	10MHz	QPSK	18650	50RB#0	-36.06	PASS
Band2	10MHz	QPSK	19150	50RB#0	-34.16	PASS
Band2	15MHz	QPSK	18675	1RB#0	-36.59	PASS
Band2	15MHz	16QAM	18675	1RB#0	-37.43	PASS
Band2	15MHz	QPSK	18675	1RB#74	-52.58	PASS
Band2	15MHz	16QAM	18675	1RB#74	-52.72	PASS
Band2	15MHz	QPSK	19125	1RB#0	-52.40	PASS
Band2	15MHz	16QAM	19125	1RB#0	-52.43	PASS
Band2	15MHz	QPSK	19125	1RB#74	-37.44	PASS
Band2	15MHz	16QAM	19125	1RB#74	-38.48	PASS
Band2	15MHz	QPSK	18675	75RB#0	-36.96	PASS
Band2	15MHz	QPSK	19125	75RB#0	-34.58	PASS
Band2	20MHz	QPSK	18700	1RB#0	-38.09	PASS
Band2	20MHz	16QAM	18700	1RB#0	-39.09	PASS
Band2	20MHz	QPSK	18700	1RB#99	-51.69	PASS
Band2	20MHz	16QAM	18700	1RB#99	-51.44	PASS
Band2	20MHz	QPSK	19100	1RB#0	-51.23	PASS
Band2	20MHz	16QAM	19100	1RB#0	-51.24	PASS
Band2	20MHz	QPSK	19100	1RB#99	-38.70	PASS
Band2	20MHz	16QAM	19100	1RB#99	-39.80	PASS
Band2	20MHz	QPSK	18700	100RB#0	-38.34	PASS
Band2	20MHz	QPSK	19100	100RB#0	-33.50	PASS

Test Graphs

