

FCC LTE Band Test Data

FCC ID : 2BMB5-RL553

Company: : GUBIA TECHNOLOGY LIMITED

EUT : 4G LTE Wireless Router

Model Number : RL553

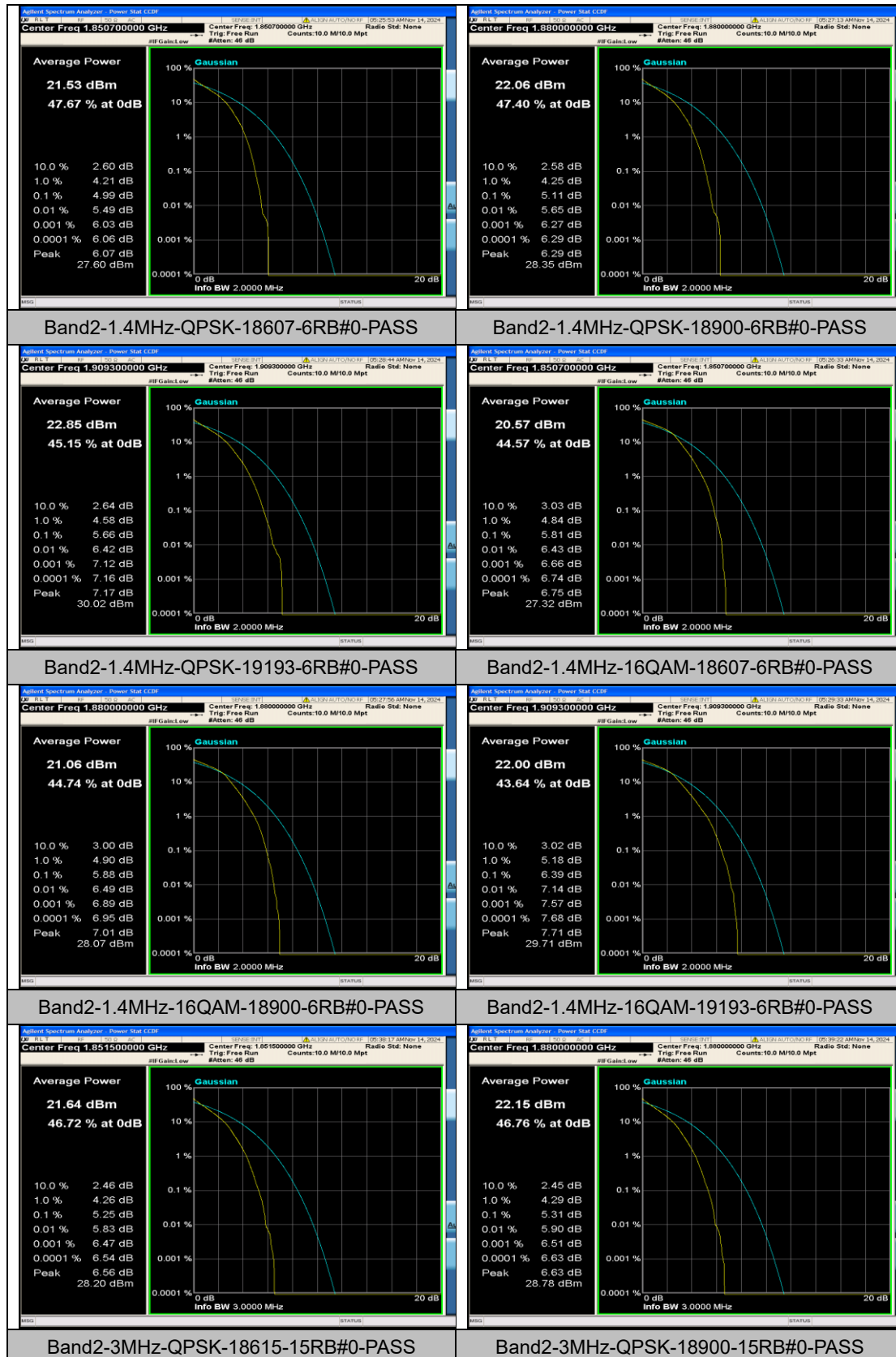
Reviewed By : Eric Wang

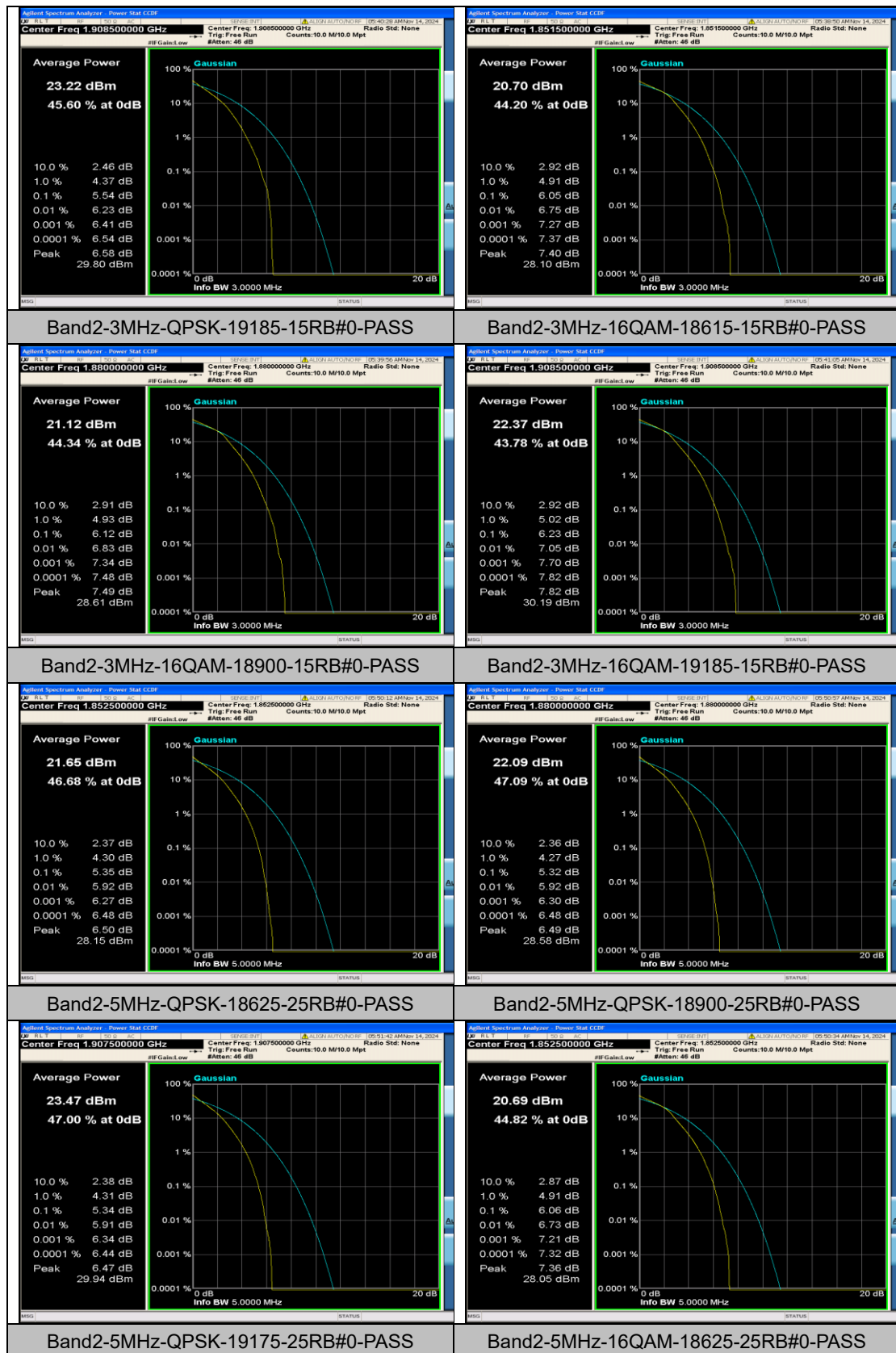
Appendix B: Peak-to-Average Ratio(CCDF)

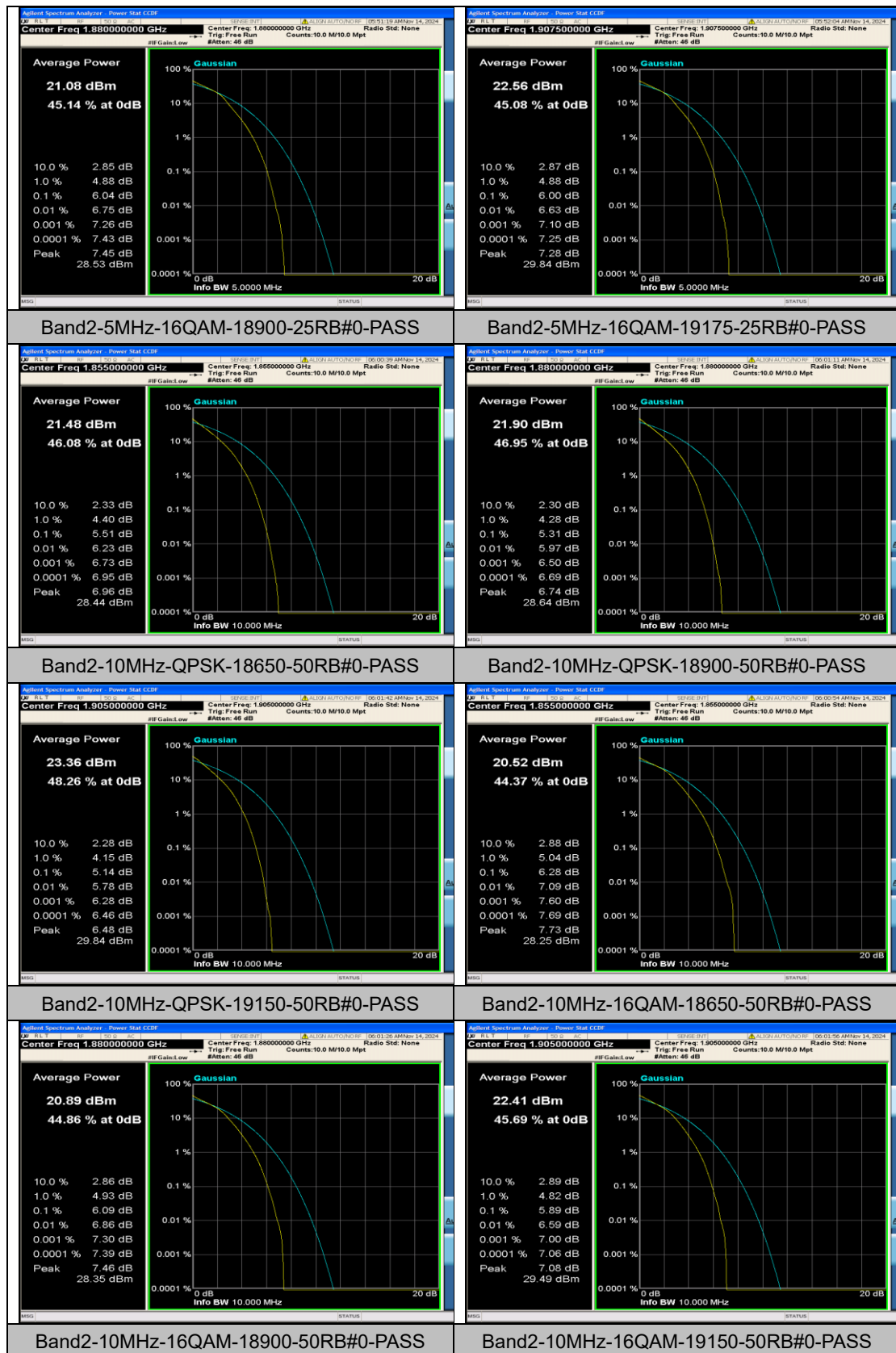
Test Result

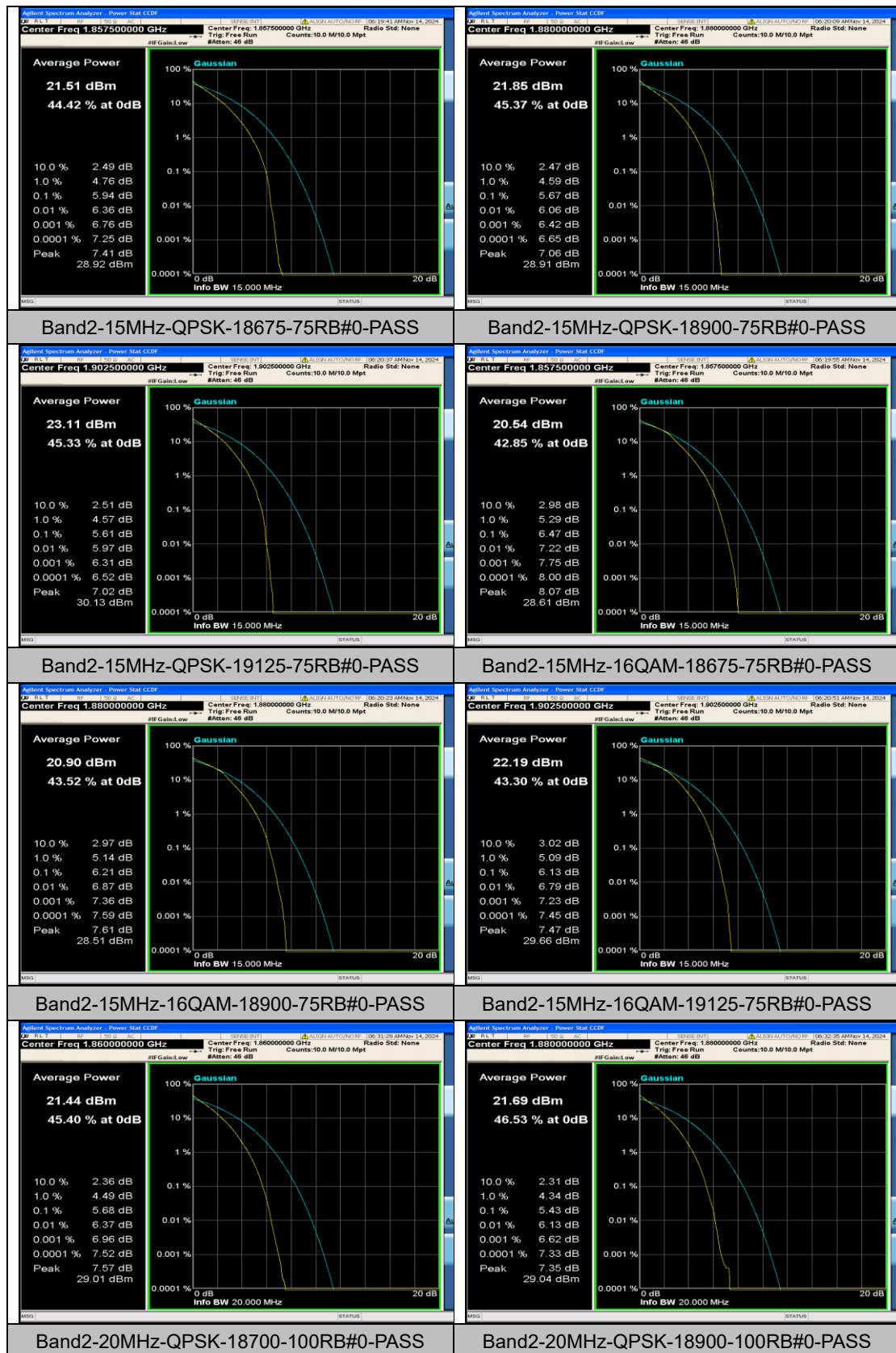
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band2	1.4MHz	QPSK	18607	6RB#0	4.99	13	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	5.11	13	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	5.66	13	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	5.81	13	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	5.88	13	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	6.39	13	PASS
Band2	3MHz	QPSK	18615	15RB#0	5.25	13	PASS
Band2	3MHz	QPSK	18900	15RB#0	5.31	13	PASS
Band2	3MHz	QPSK	19185	15RB#0	5.54	13	PASS
Band2	3MHz	16QAM	18615	15RB#0	6.05	13	PASS
Band2	3MHz	16QAM	18900	15RB#0	6.12	13	PASS
Band2	3MHz	16QAM	19185	15RB#0	6.23	13	PASS
Band2	5MHz	QPSK	18625	25RB#0	5.35	13	PASS
Band2	5MHz	QPSK	18900	25RB#0	5.32	13	PASS
Band2	5MHz	QPSK	19175	25RB#0	5.34	13	PASS
Band2	5MHz	16QAM	18625	25RB#0	6.06	13	PASS
Band2	5MHz	16QAM	18900	25RB#0	6.04	13	PASS
Band2	5MHz	16QAM	19175	25RB#0	6.00	13	PASS
Band2	10MHz	QPSK	18650	50RB#0	5.51	13	PASS
Band2	10MHz	QPSK	18900	50RB#0	5.31	13	PASS
Band2	10MHz	QPSK	19150	50RB#0	5.14	13	PASS
Band2	10MHz	16QAM	18650	50RB#0	6.28	13	PASS
Band2	10MHz	16QAM	18900	50RB#0	6.09	13	PASS
Band2	10MHz	16QAM	19150	50RB#0	5.89	13	PASS
Band2	15MHz	QPSK	18675	75RB#0	5.94	13	PASS
Band2	15MHz	QPSK	18900	75RB#0	5.67	13	PASS
Band2	15MHz	QPSK	19125	75RB#0	5.61	13	PASS
Band2	15MHz	16QAM	18675	75RB#0	6.47	13	PASS
Band2	15MHz	16QAM	18900	75RB#0	6.21	13	PASS
Band2	15MHz	16QAM	19125	75RB#0	6.13	13	PASS
Band2	20MHz	QPSK	18700	100RB#0	5.68	13	PASS
Band2	20MHz	QPSK	18900	100RB#0	5.43	13	PASS
Band2	20MHz	QPSK	19100	100RB#0	5.53	13	PASS
Band2	20MHz	16QAM	18700	100RB#0	6.47	13	PASS
Band2	20MHz	16QAM	18900	100RB#0	6.22	13	PASS
Band2	20MHz	16QAM	19100	100RB#0	6.31	13	PASS

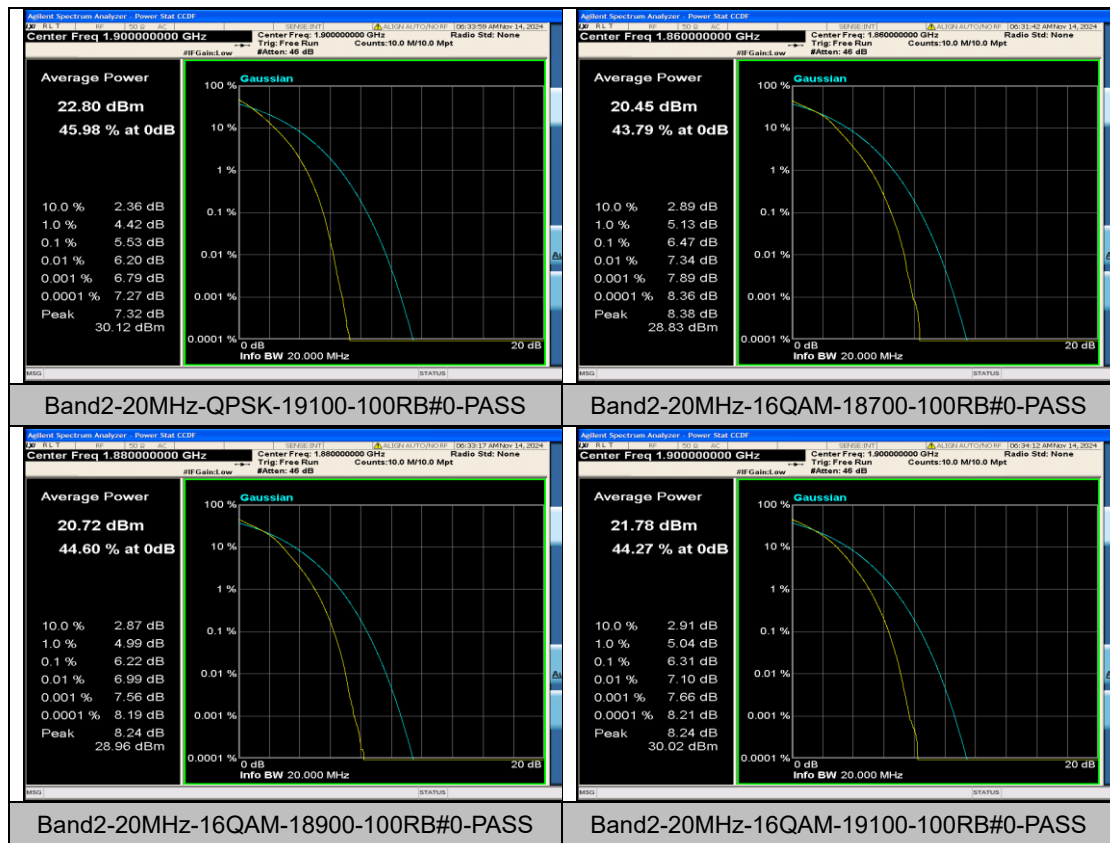
Test Graphs











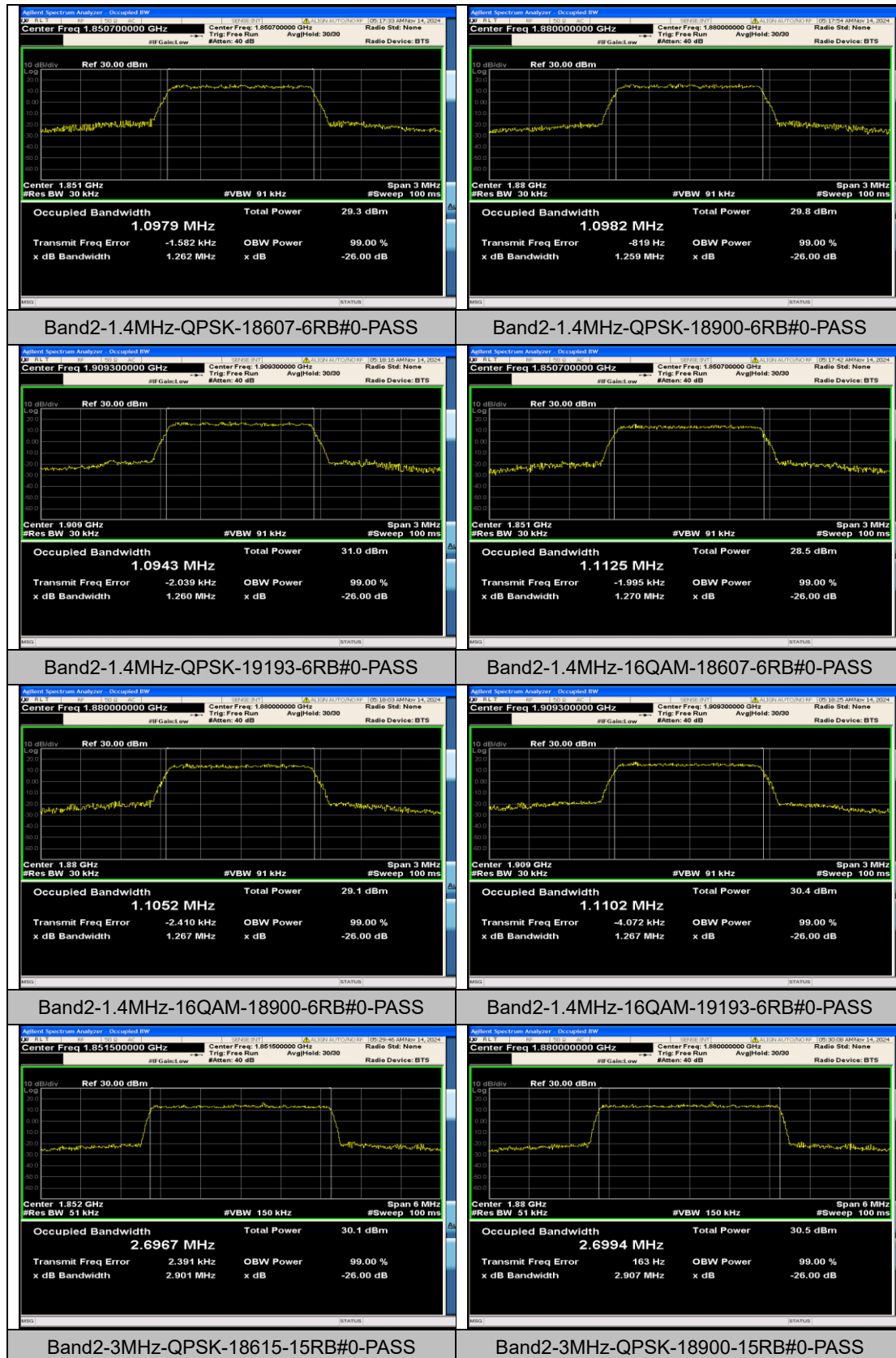
Appendix C: 26dB Bandwidth and Occupied Bandwidth

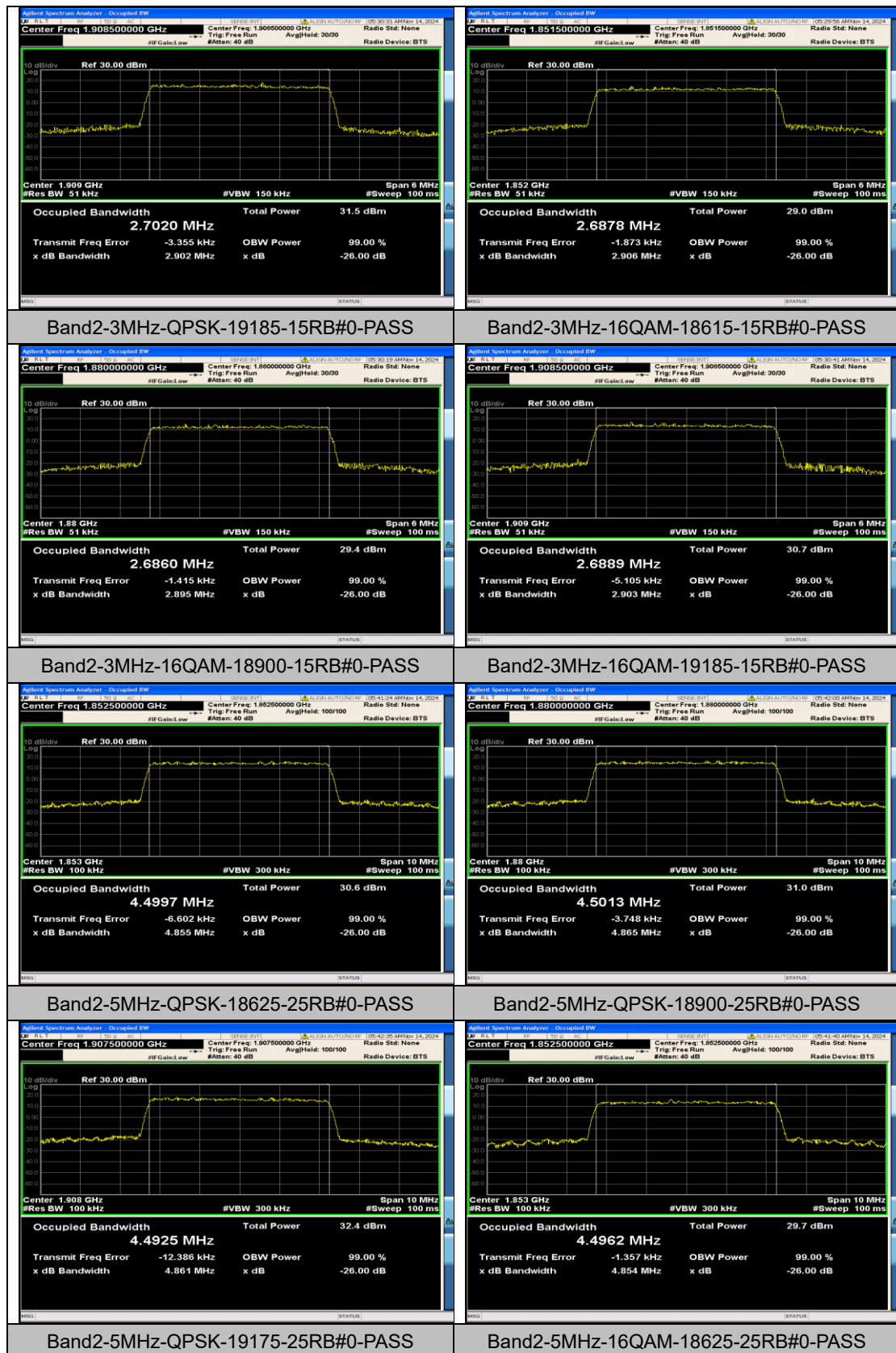
Test Result

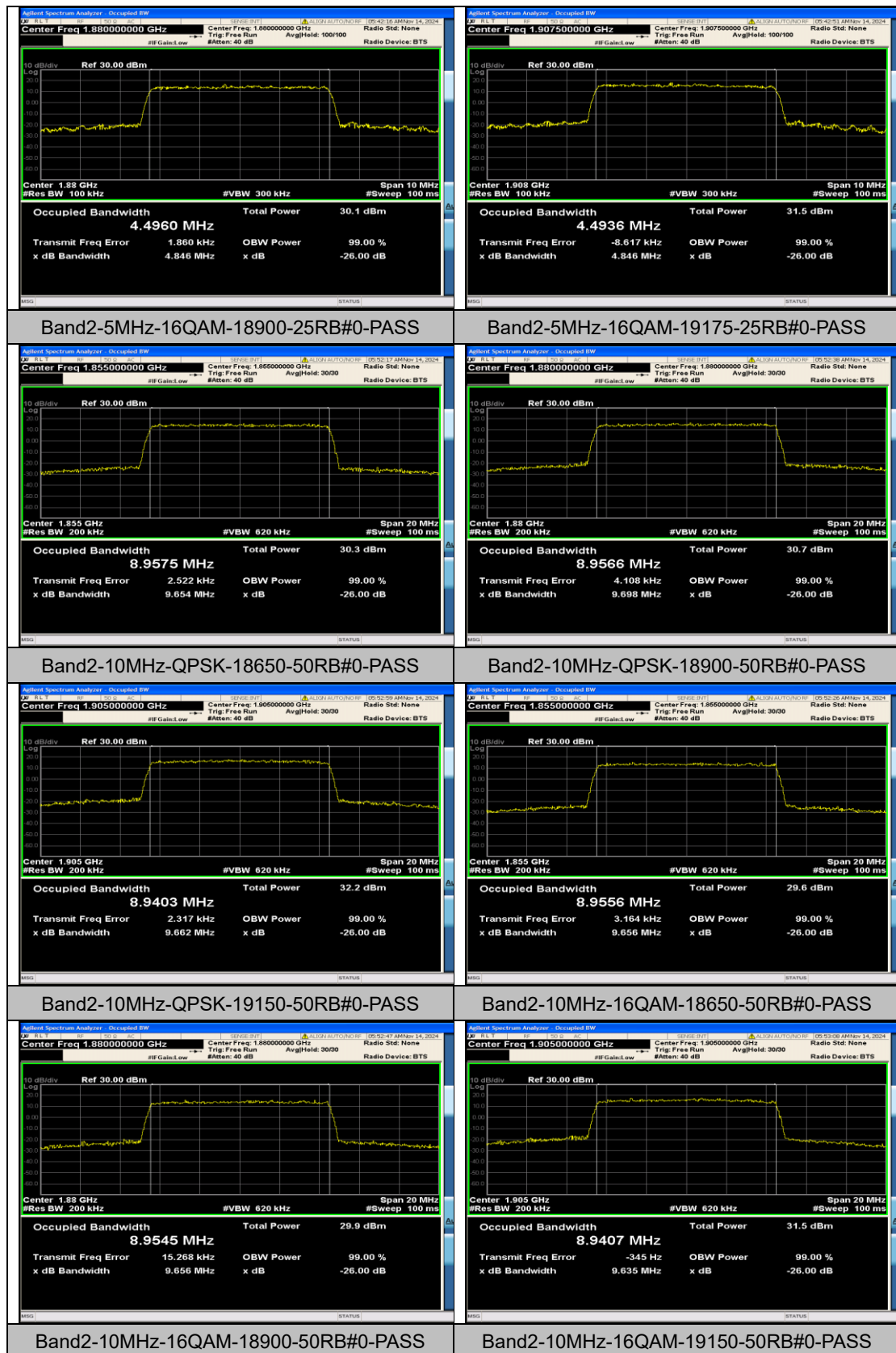
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band2	1.4MHz	QPSK	18607	6RB#0	1.0979	1.262	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	1.0982	1.259	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	1.0943	1.260	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	1.1125	1.270	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	1.1052	1.267	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	1.1102	1.267	PASS
Band2	3MHz	QPSK	18615	15RB#0	2.6967	2.901	PASS
Band2	3MHz	QPSK	18900	15RB#0	2.6994	2.907	PASS
Band2	3MHz	QPSK	19185	15RB#0	2.7020	2.902	PASS
Band2	3MHz	16QAM	18615	15RB#0	2.6878	2.906	PASS
Band2	3MHz	16QAM	18900	15RB#0	2.6860	2.895	PASS
Band2	3MHz	16QAM	19185	15RB#0	2.6889	2.903	PASS
Band2	5MHz	QPSK	18625	25RB#0	4.4997	4.855	PASS
Band2	5MHz	QPSK	18900	25RB#0	4.5013	4.865	PASS
Band2	5MHz	QPSK	19175	25RB#0	4.4925	4.861	PASS
Band2	5MHz	16QAM	18625	25RB#0	4.4962	4.854	PASS
Band2	5MHz	16QAM	18900	25RB#0	4.4960	4.846	PASS
Band2	5MHz	16QAM	19175	25RB#0	4.4936	4.846	PASS
Band2	10MHz	QPSK	18650	50RB#0	8.9575	9.654	PASS
Band2	10MHz	QPSK	18900	50RB#0	8.9566	9.698	PASS
Band2	10MHz	QPSK	19150	50RB#0	8.9403	9.662	PASS
Band2	10MHz	16QAM	18650	50RB#0	8.9556	9.656	PASS
Band2	10MHz	16QAM	18900	50RB#0	8.9545	9.656	PASS
Band2	10MHz	16QAM	19150	50RB#0	8.9407	9.635	PASS
Band2	15MHz	QPSK	18675	75RB#0	13.456	14.52	PASS
Band2	15MHz	QPSK	18900	75RB#0	13.449	14.50	PASS
Band2	15MHz	QPSK	19125	75RB#0	13.432	14.51	PASS
Band2	15MHz	16QAM	18675	75RB#0	13.454	14.46	PASS
Band2	15MHz	16QAM	18900	75RB#0	13.458	14.51	PASS
Band2	15MHz	16QAM	19125	75RB#0	13.422	14.47	PASS
Band2	20MHz	QPSK	18700	100RB#0	17.964	19.66	PASS
Band2	20MHz	QPSK	18900	100RB#0	17.935	19.55	PASS
Band2	20MHz	QPSK	19100	100RB#0	17.905	19.46	PASS
Band2	20MHz	16QAM	18700	100RB#0	17.968	19.58	PASS

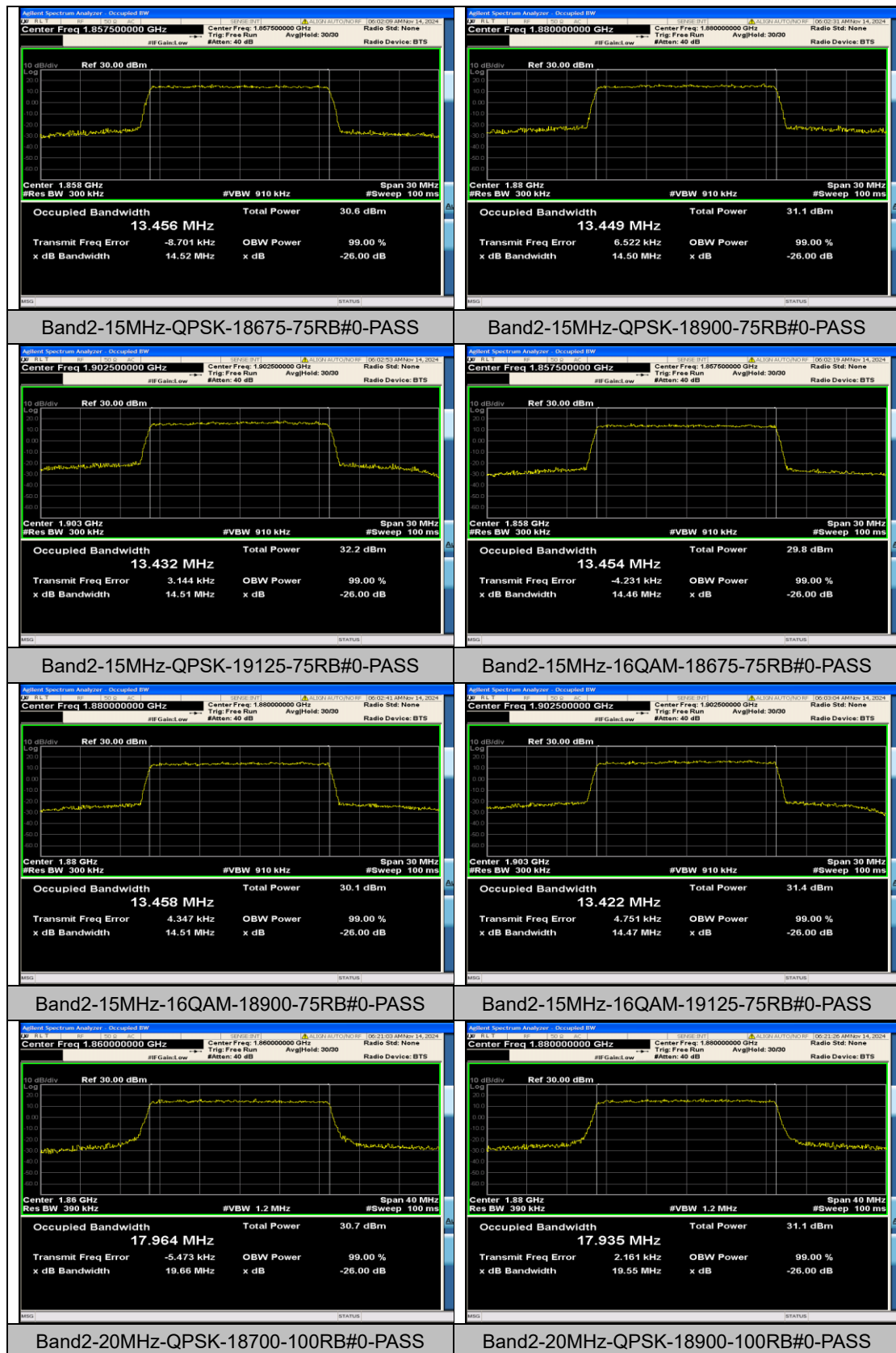
Band2	20MHz	16QAM	18900	100RB#0	17.933	19.52	PASS
Band2	20MHz	16QAM	19100	100RB#0	17.958	19.45	PASS

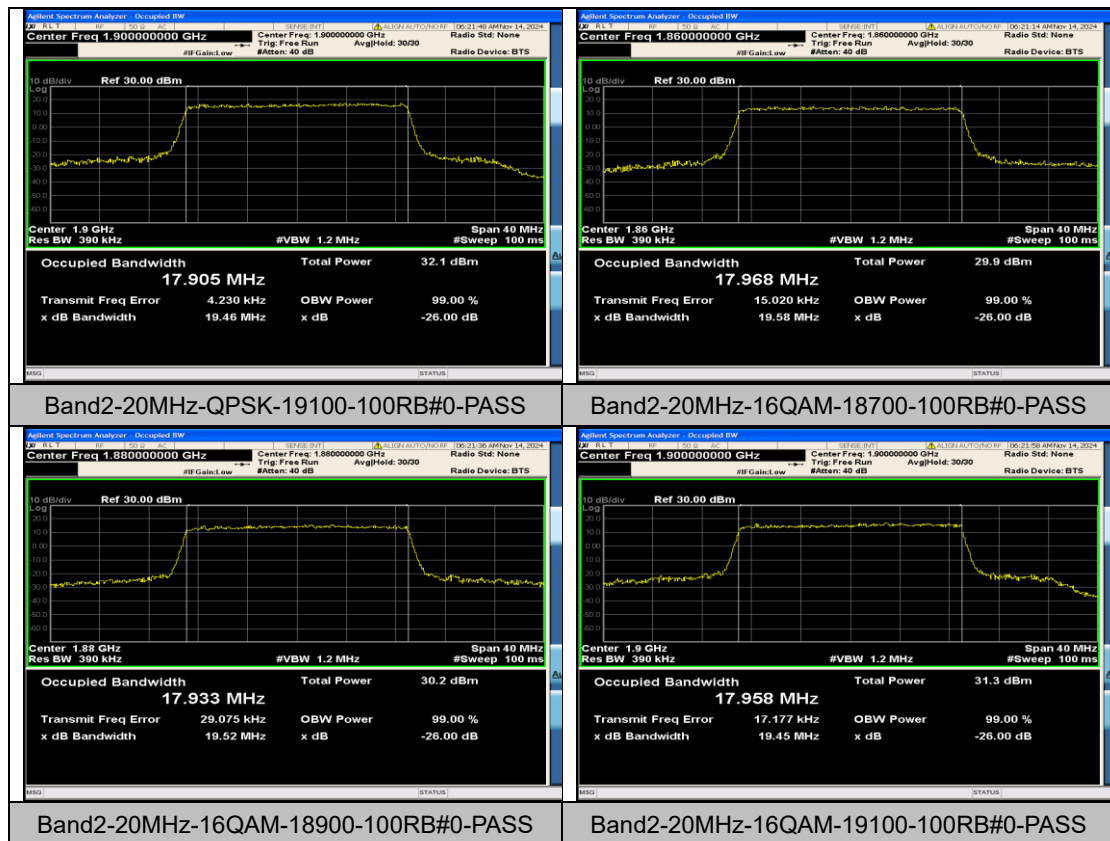
Test Graphs









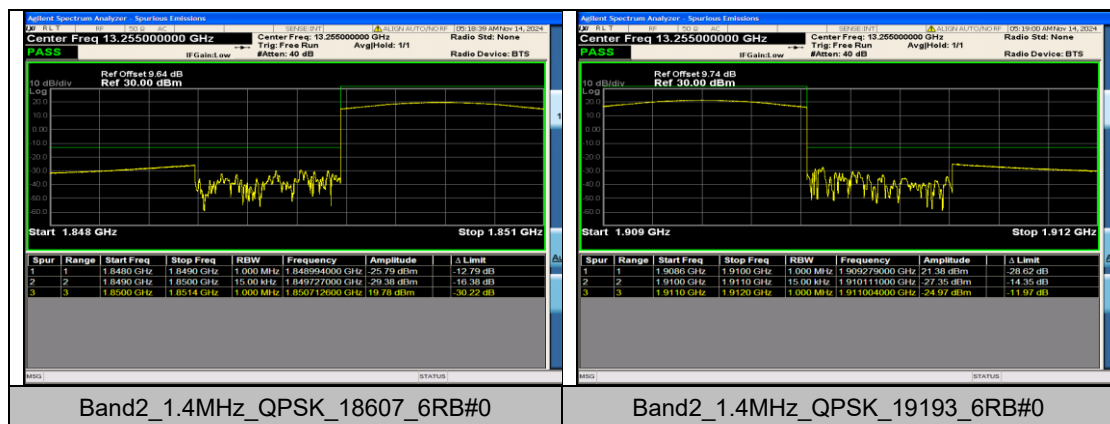


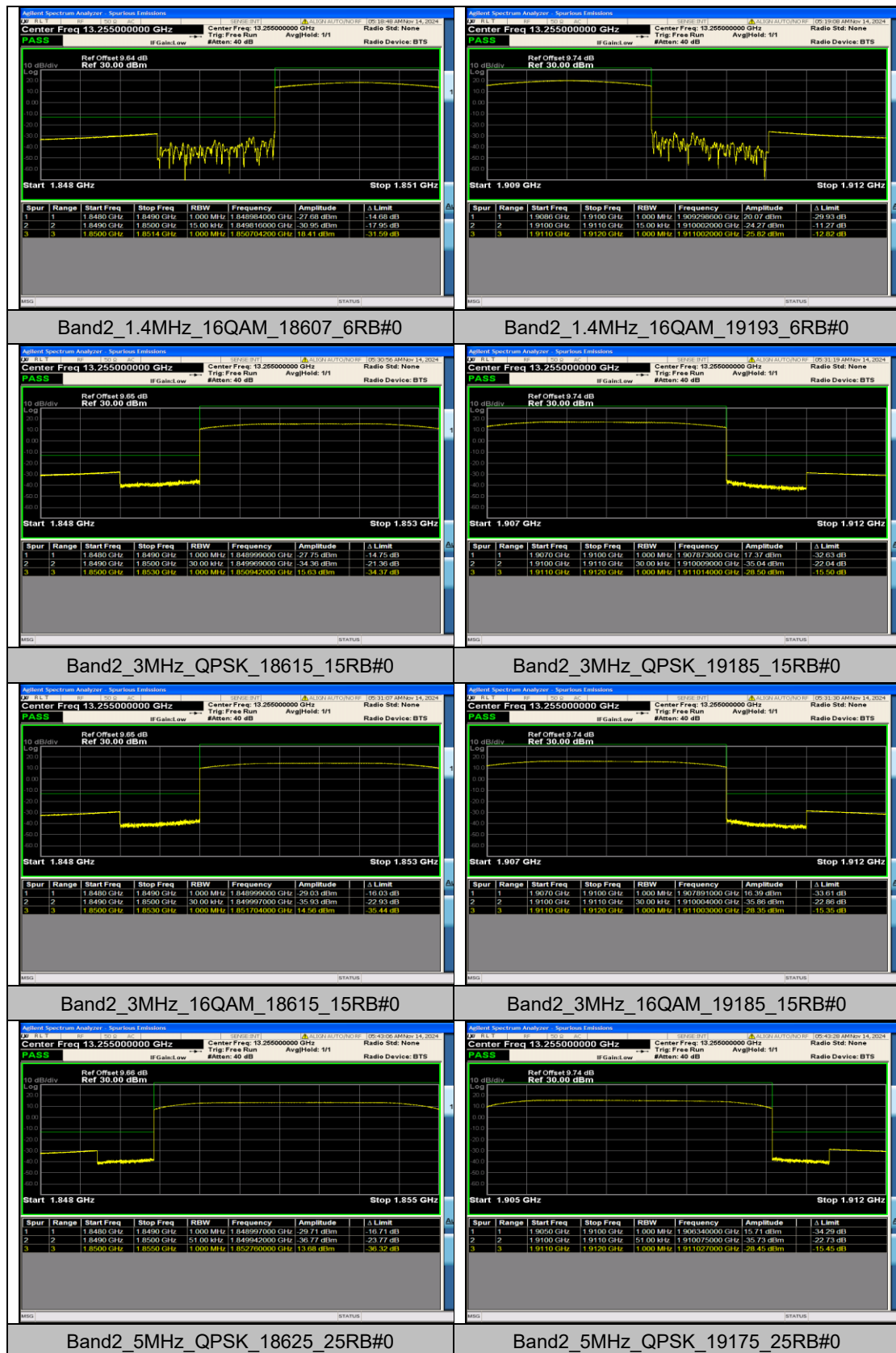
Appendix D: Band Edge

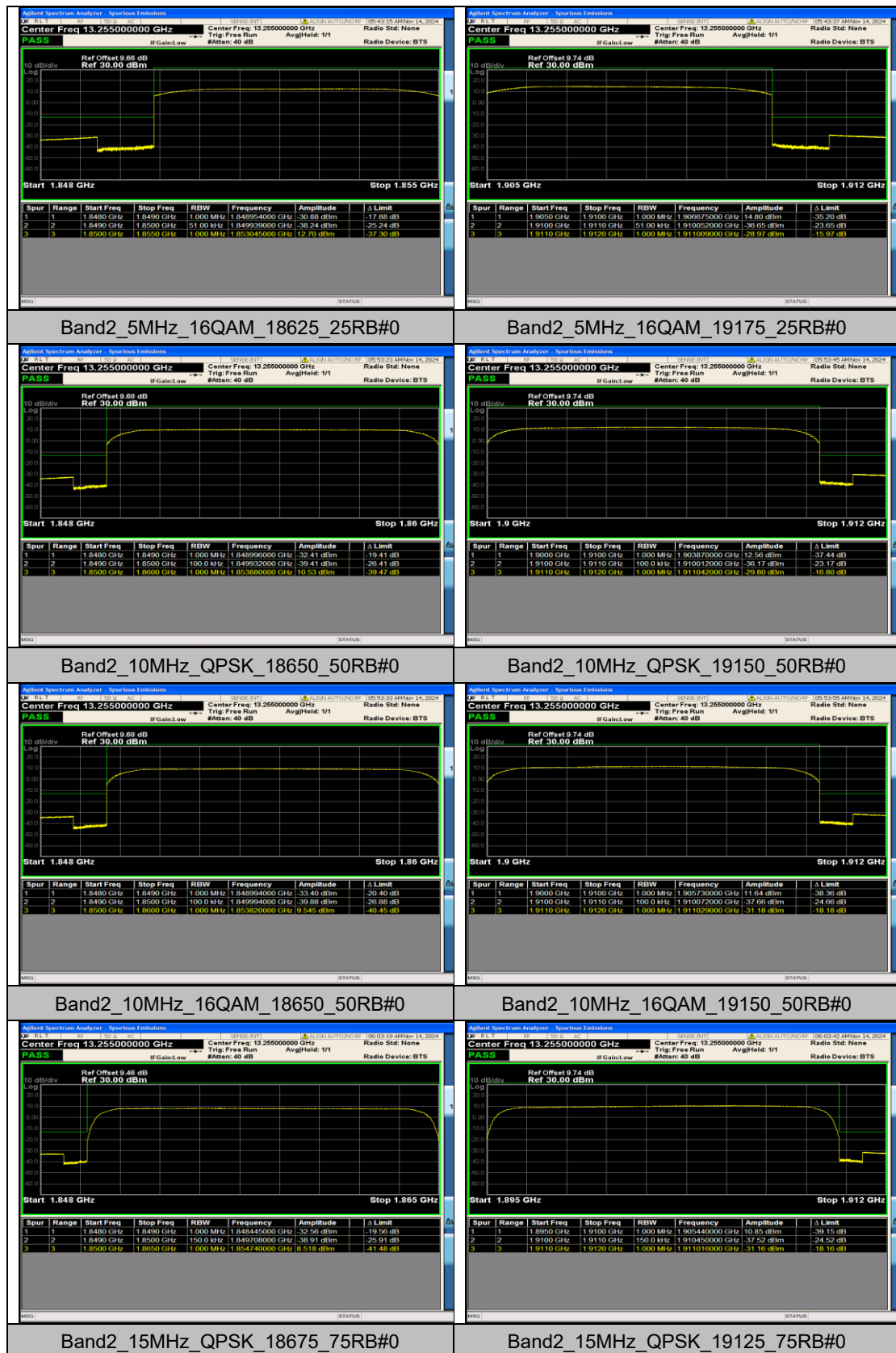
Test Result

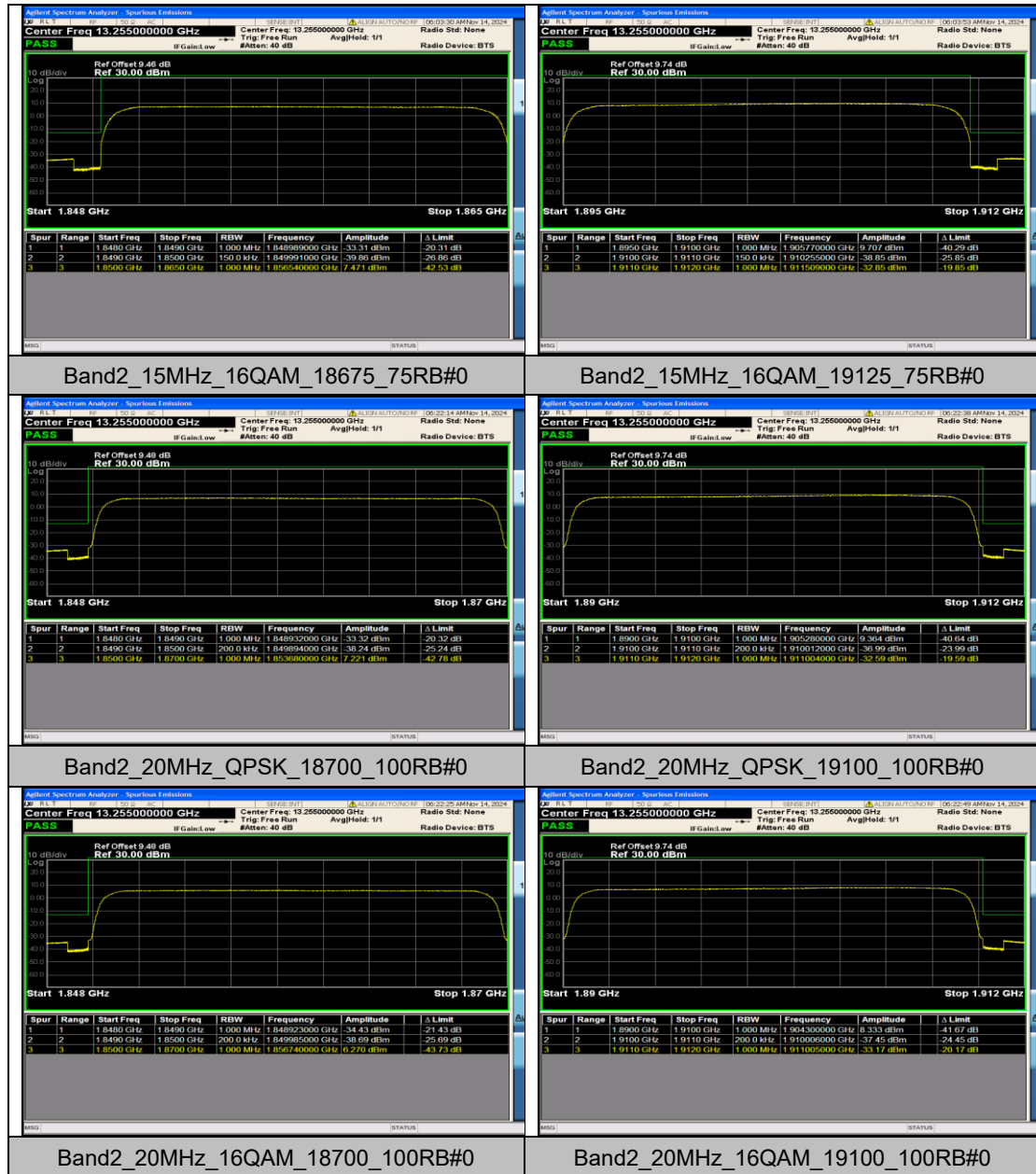
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band2	1.4MHz	QPSK	18607	6RB#0	-25.79	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	-24.97	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	-27.68	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	-24.27	PASS
Band2	3MHz	QPSK	18615	15RB#0	-27.75	PASS
Band2	3MHz	QPSK	19185	15RB#0	-28.50	PASS
Band2	3MHz	16QAM	18615	15RB#0	-29.03	PASS
Band2	3MHz	16QAM	19185	15RB#0	-28.35	PASS
Band2	5MHz	QPSK	18625	25RB#0	-29.71	PASS
Band2	5MHz	QPSK	19175	25RB#0	-28.45	PASS
Band2	5MHz	16QAM	18625	25RB#0	-30.88	PASS
Band2	5MHz	16QAM	19175	25RB#0	-28.97	PASS
Band2	10MHz	QPSK	18650	50RB#0	-32.41	PASS
Band2	10MHz	QPSK	19150	50RB#0	-29.80	PASS
Band2	10MHz	16QAM	18650	50RB#0	-33.40	PASS
Band2	10MHz	16QAM	19150	50RB#0	-31.18	PASS
Band2	15MHz	QPSK	18675	75RB#0	-32.56	PASS
Band2	15MHz	QPSK	19125	75RB#0	-31.16	PASS
Band2	15MHz	16QAM	18675	75RB#0	-33.31	PASS
Band2	15MHz	16QAM	19125	75RB#0	-32.85	PASS
Band2	20MHz	QPSK	18700	100RB#0	-33.32	PASS
Band2	20MHz	QPSK	19100	100RB#0	-32.59	PASS
Band2	20MHz	16QAM	18700	100RB#0	-34.43	PASS
Band2	20MHz	16QAM	19100	100RB#0	-33.17	PASS

Test Graphs









Appendix E: Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band2	1.4MHz	QPSK	18607	6RB#0	0.009~0.15	-62.54	PASS
Band2	1.4MHz	QPSK	18607	6RB#0	0.15~30	-54.55	PASS
Band2	1.4MHz	QPSK	18607	6RB#0	30~1000	-62.08	PASS
Band2	1.4MHz	QPSK	18607	6RB#0	1000~3000	-29.20	PASS
Band2	1.4MHz	QPSK	18607	6RB#0	3000~20000	-38.13	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	0.009~0.15	-61.99	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	0.15~30	-54.30	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	30~1000	-61.68	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	1000~3000	-29.56	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	3000~20000	-37.67	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	0.009~0.15	-64.72	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	0.15~30	-52.59	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	30~1000	-62.00	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	1000~3000	-27.60	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	3000~20000	-37.59	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	0.009~0.15	-63.75	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	0.15~30	-53.50	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	30~1000	-61.84	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	1000~3000	-30.27	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	3000~20000	-37.71	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	0.009~0.15	-63.00	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	0.15~30	-55.63	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	30~1000	-61.77	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	1000~3000	-30.65	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	3000~20000	-37.44	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	0.009~0.15	-63.45	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	0.15~30	-54.42	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	30~1000	-61.97	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	1000~3000	-28.77	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	3000~20000	-37.70	PASS
Band2	3MHz	QPSK	18615	15RB#0	0.009~0.15	-63.61	PASS
Band2	3MHz	QPSK	18615	15RB#0	0.15~30	-52.75	PASS
Band2	3MHz	QPSK	18615	15RB#0	30~1000	-61.95	PASS
Band2	3MHz	QPSK	18615	15RB#0	1000~3000	-35.44	PASS
Band2	3MHz	QPSK	18615	15RB#0	3000~20000	-37.76	PASS
Band2	3MHz	QPSK	18900	15RB#0	0.009~0.15	-60.12	PASS

Band2	3MHz	QPSK	18900	15RB#0	0.15~30	-54.26	PASS
Band2	3MHz	QPSK	18900	15RB#0	30~1000	-61.90	PASS
Band2	3MHz	QPSK	18900	15RB#0	1000~3000	-35.35	PASS
Band2	3MHz	QPSK	18900	15RB#0	3000~20000	-37.90	PASS
Band2	3MHz	QPSK	19185	15RB#0	0.009~0.15	-64.38	PASS
Band2	3MHz	QPSK	19185	15RB#0	0.15~30	-53.09	PASS
Band2	3MHz	QPSK	19185	15RB#0	30~1000	-61.88	PASS
Band2	3MHz	QPSK	19185	15RB#0	1000~3000	-34.25	PASS
Band2	3MHz	QPSK	19185	15RB#0	3000~20000	-37.57	PASS
Band2	3MHz	16QAM	18615	15RB#0	0.009~0.15	-65.10	PASS
Band2	3MHz	16QAM	18615	15RB#0	0.15~30	-53.47	PASS
Band2	3MHz	16QAM	18615	15RB#0	30~1000	-62.09	PASS
Band2	3MHz	16QAM	18615	15RB#0	1000~3000	-37.60	PASS
Band2	3MHz	16QAM	18615	15RB#0	3000~20000	-37.93	PASS
Band2	3MHz	16QAM	18900	15RB#0	0.009~0.15	-65.67	PASS
Band2	3MHz	16QAM	18900	15RB#0	0.15~30	-54.51	PASS
Band2	3MHz	16QAM	18900	15RB#0	30~1000	-62.00	PASS
Band2	3MHz	16QAM	18900	15RB#0	1000~3000	-37.61	PASS
Band2	3MHz	16QAM	18900	15RB#0	3000~20000	-37.57	PASS
Band2	3MHz	16QAM	19185	15RB#0	0.009~0.15	-65.16	PASS
Band2	3MHz	16QAM	19185	15RB#0	0.15~30	-53.99	PASS
Band2	3MHz	16QAM	19185	15RB#0	30~1000	-61.99	PASS
Band2	3MHz	16QAM	19185	15RB#0	1000~3000	-35.00	PASS
Band2	3MHz	16QAM	19185	15RB#0	3000~20000	-37.59	PASS
Band2	5MHz	QPSK	18625	25RB#0	0.009~0.15	-65.16	PASS
Band2	5MHz	QPSK	18625	25RB#0	0.15~30	-54.88	PASS
Band2	5MHz	QPSK	18625	25RB#0	30~1000	-61.83	PASS
Band2	5MHz	QPSK	18625	25RB#0	1000~3000	-41.58	PASS
Band2	5MHz	QPSK	18625	25RB#0	3000~20000	-37.81	PASS
Band2	5MHz	QPSK	18900	25RB#0	0.009~0.15	-63.01	PASS
Band2	5MHz	QPSK	18900	25RB#0	0.15~30	-56.02	PASS
Band2	5MHz	QPSK	18900	25RB#0	30~1000	-61.74	PASS
Band2	5MHz	QPSK	18900	25RB#0	1000~3000	-40.37	PASS
Band2	5MHz	QPSK	18900	25RB#0	3000~20000	-37.83	PASS
Band2	5MHz	QPSK	19175	25RB#0	0.009~0.15	-62.29	PASS
Band2	5MHz	QPSK	19175	25RB#0	0.15~30	-53.86	PASS
Band2	5MHz	QPSK	19175	25RB#0	30~1000	-61.74	PASS
Band2	5MHz	QPSK	19175	25RB#0	1000~3000	-38.22	PASS
Band2	5MHz	QPSK	19175	25RB#0	3000~20000	-37.36	PASS
Band2	5MHz	16QAM	18625	25RB#0	0.009~0.15	-63.72	PASS
Band2	5MHz	16QAM	18625	25RB#0	0.15~30	-52.54	PASS
Band2	5MHz	16QAM	18625	25RB#0	30~1000	-61.56	PASS
Band2	5MHz	16QAM	18625	25RB#0	1000~3000	-42.50	PASS

Band2	5MHz	16QAM	18625	25RB#0	3000~20000	-37.42	PASS
Band2	5MHz	16QAM	18900	25RB#0	0.009~0.15	-62.95	PASS
Band2	5MHz	16QAM	18900	25RB#0	0.15~30	-53.31	PASS
Band2	5MHz	16QAM	18900	25RB#0	30~1000	-61.67	PASS
Band2	5MHz	16QAM	18900	25RB#0	1000~3000	-42.47	PASS
Band2	5MHz	16QAM	18900	25RB#0	3000~20000	-37.85	PASS
Band2	5MHz	16QAM	19175	25RB#0	0.009~0.15	-64.22	PASS
Band2	5MHz	16QAM	19175	25RB#0	0.15~30	-53.51	PASS
Band2	5MHz	16QAM	19175	25RB#0	30~1000	-61.60	PASS
Band2	5MHz	16QAM	19175	25RB#0	1000~3000	-40.69	PASS
Band2	5MHz	16QAM	19175	25RB#0	3000~20000	-37.74	PASS
Band2	10MHz	QPSK	18650	50RB#0	0.009~0.15	-61.05	PASS
Band2	10MHz	QPSK	18650	50RB#0	0.15~30	-55.27	PASS
Band2	10MHz	QPSK	18650	50RB#0	30~1000	-62.05	PASS
Band2	10MHz	QPSK	18650	50RB#0	1000~3000	-45.26	PASS
Band2	10MHz	QPSK	18650	50RB#0	3000~20000	-38.05	PASS
Band2	10MHz	QPSK	18900	50RB#0	0.009~0.15	-62.01	PASS
Band2	10MHz	QPSK	18900	50RB#0	0.15~30	-54.41	PASS
Band2	10MHz	QPSK	18900	50RB#0	30~1000	-61.88	PASS
Band2	10MHz	QPSK	18900	50RB#0	1000~3000	-44.35	PASS
Band2	10MHz	QPSK	18900	50RB#0	3000~20000	-37.99	PASS
Band2	10MHz	QPSK	19150	50RB#0	0.009~0.15	-65.62	PASS
Band2	10MHz	QPSK	19150	50RB#0	0.15~30	-51.93	PASS
Band2	10MHz	QPSK	19150	50RB#0	30~1000	-61.45	PASS
Band2	10MHz	QPSK	19150	50RB#0	1000~3000	-44.06	PASS
Band2	10MHz	QPSK	19150	50RB#0	3000~20000	-38.10	PASS
Band2	10MHz	16QAM	18650	50RB#0	0.009~0.15	-64.02	PASS
Band2	10MHz	16QAM	18650	50RB#0	0.15~30	-53.79	PASS
Band2	10MHz	16QAM	18650	50RB#0	30~1000	-61.91	PASS
Band2	10MHz	16QAM	18650	50RB#0	1000~3000	-46.05	PASS
Band2	10MHz	16QAM	18650	50RB#0	3000~20000	-37.52	PASS
Band2	10MHz	16QAM	18900	50RB#0	0.009~0.15	-62.15	PASS
Band2	10MHz	16QAM	18900	50RB#0	0.15~30	-53.83	PASS
Band2	10MHz	16QAM	18900	50RB#0	30~1000	-61.87	PASS
Band2	10MHz	16QAM	18900	50RB#0	1000~3000	-45.91	PASS
Band2	10MHz	16QAM	18900	50RB#0	3000~20000	-37.46	PASS
Band2	10MHz	16QAM	19150	50RB#0	0.009~0.15	-65.19	PASS
Band2	10MHz	16QAM	19150	50RB#0	0.15~30	-53.93	PASS
Band2	10MHz	16QAM	19150	50RB#0	30~1000	-61.98	PASS
Band2	10MHz	16QAM	19150	50RB#0	1000~3000	-45.29	PASS
Band2	10MHz	16QAM	19150	50RB#0	3000~20000	-37.54	PASS
Band2	15MHz	QPSK	18675	75RB#0	0.009~0.15	-61.60	PASS
Band2	15MHz	QPSK	18675	75RB#0	0.15~30	-53.65	PASS