

FCC Appendix RF Test Data for LTE Band 4

FCC ID : 2BYEV-ORIGOT108

Company : SHENZHEN DANFOO TECHNOLOGY CO.,LTD.

EUT : Smart Bee Box

Model Number : ORIGO T108

Report No. : CTA26062401103

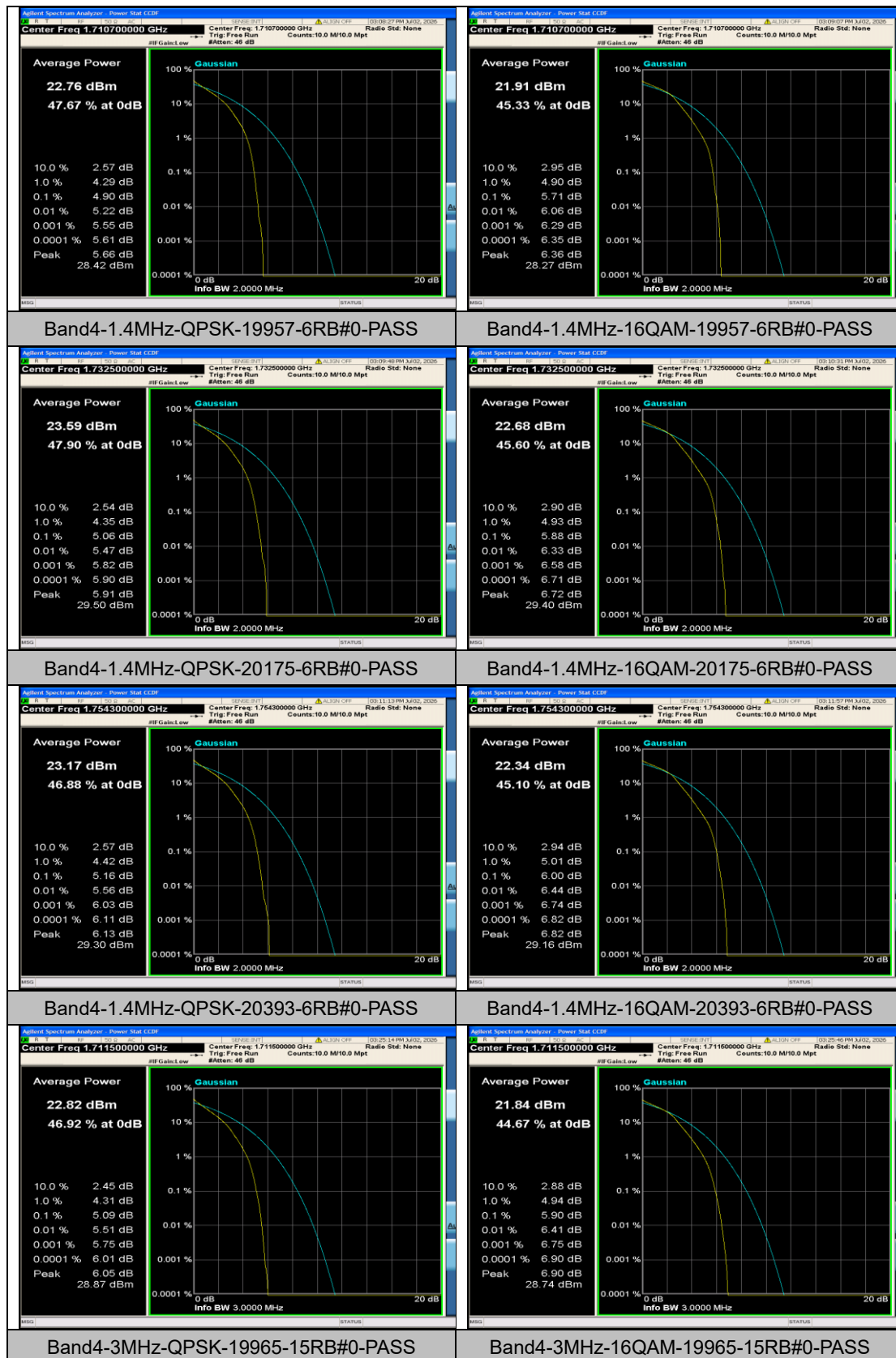
Reviewed By : Eric Wang

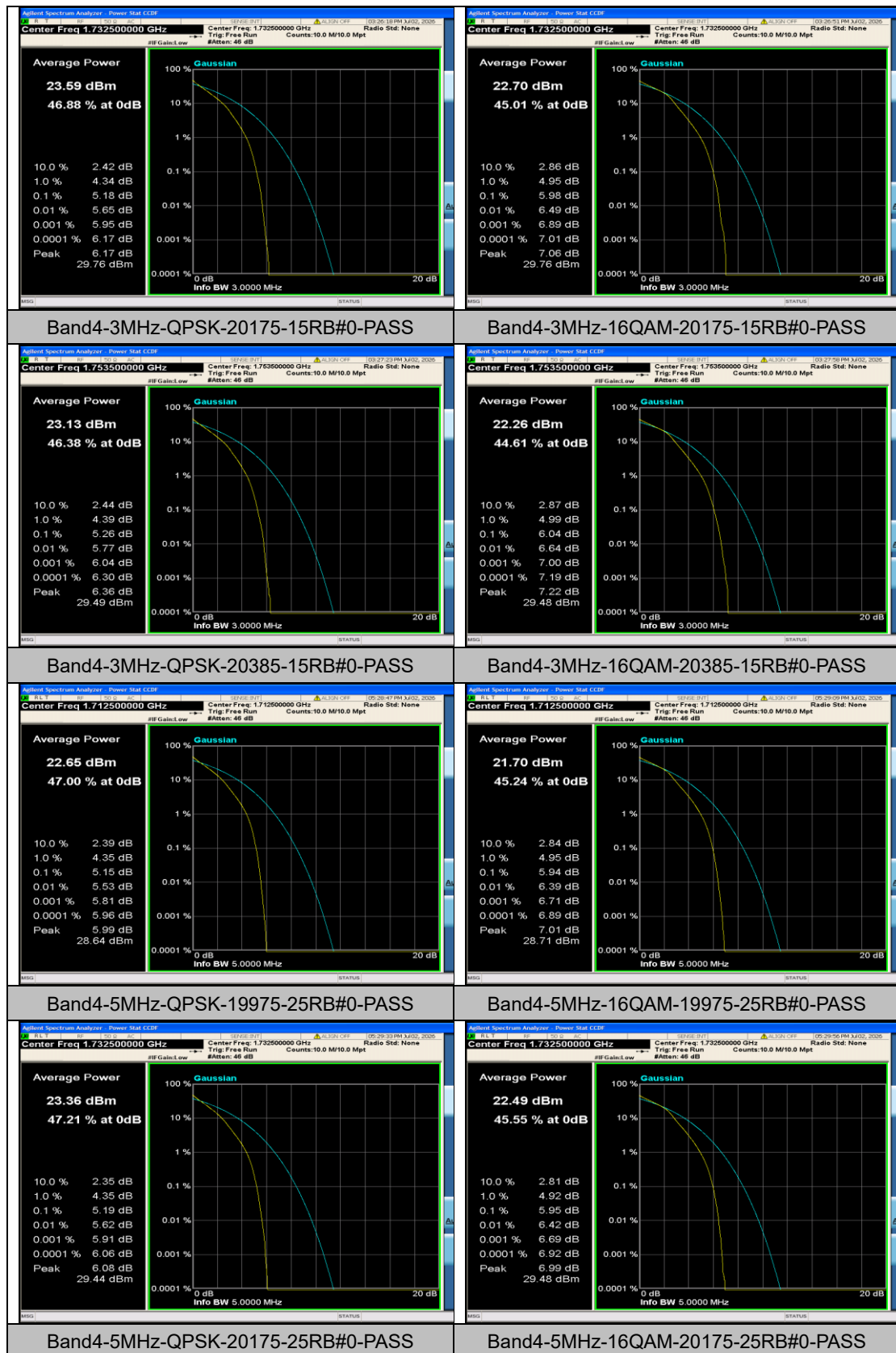
Appendix B: Peak-to-Average Ratio(CCDF)

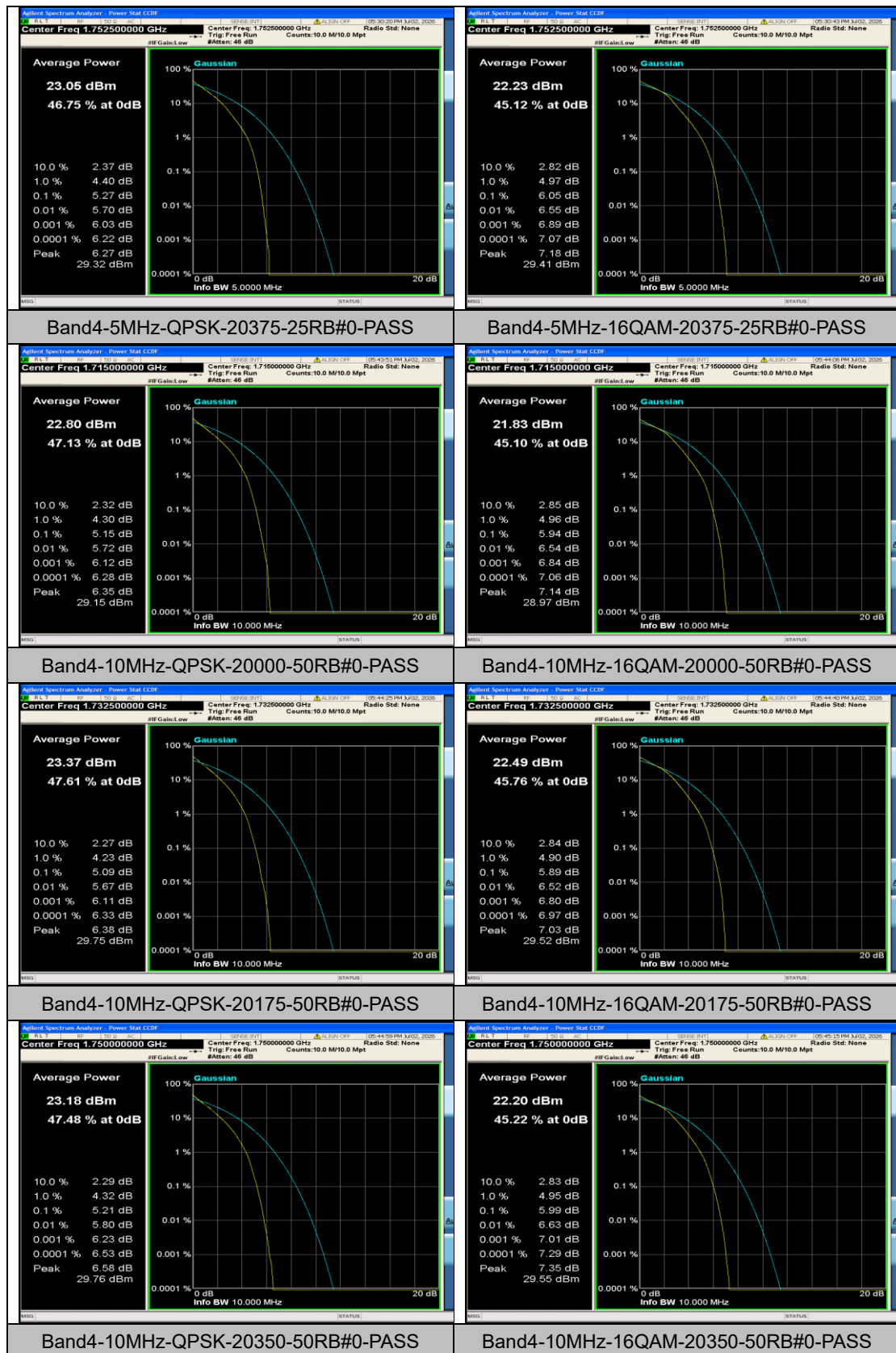
Test Result

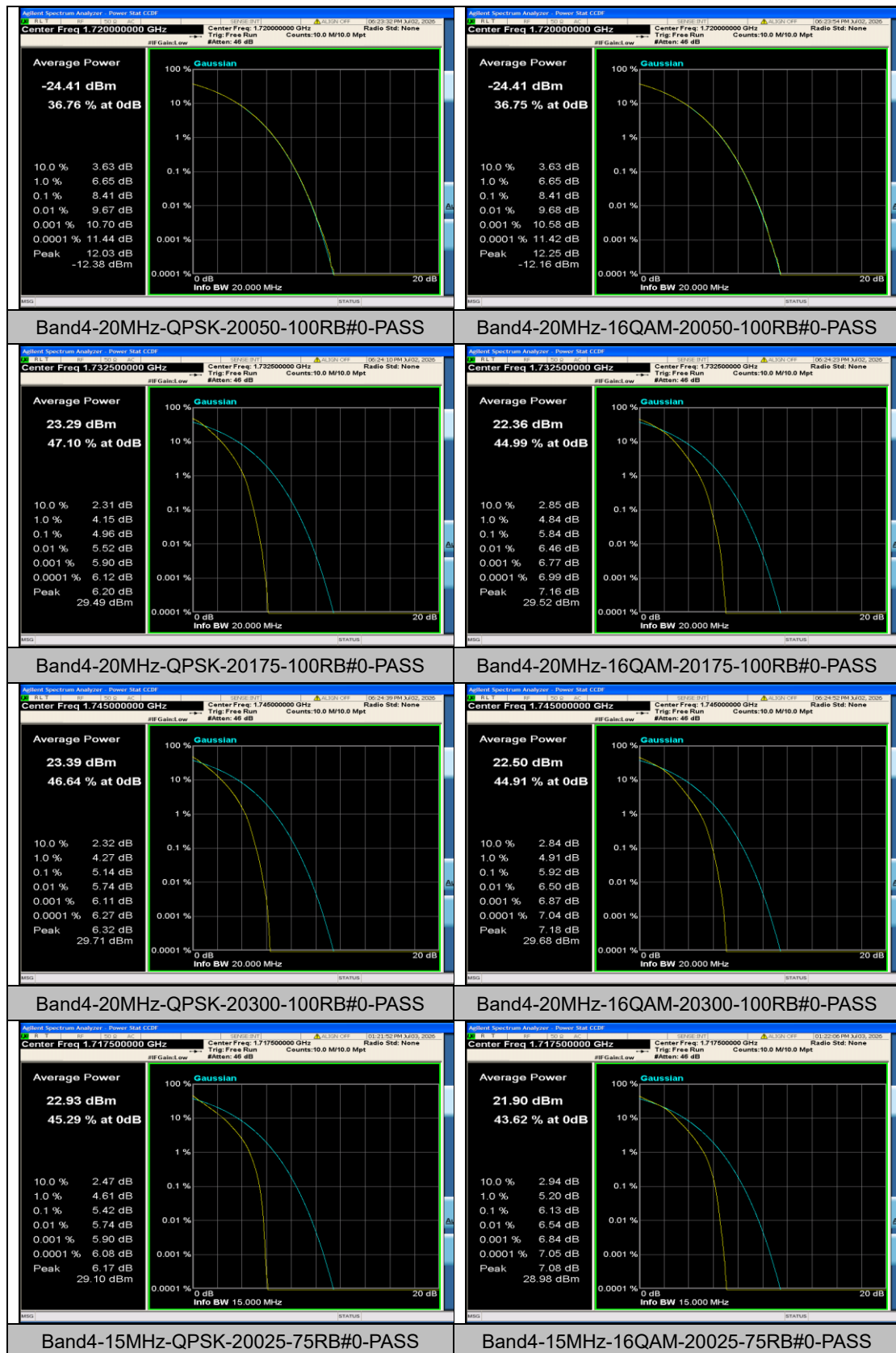
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band4	1.4MHz	QPSK	19957	6RB#0	4.90	13	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	5.71	13	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	5.06	13	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	5.88	13	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	5.16	13	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	6.00	13	PASS
Band4	3MHz	QPSK	19965	15RB#0	5.09	13	PASS
Band4	3MHz	16QAM	19965	15RB#0	5.90	13	PASS
Band4	3MHz	QPSK	20175	15RB#0	5.18	13	PASS
Band4	3MHz	16QAM	20175	15RB#0	5.98	13	PASS
Band4	3MHz	QPSK	20385	15RB#0	5.26	13	PASS
Band4	3MHz	16QAM	20385	15RB#0	6.04	13	PASS
Band4	5MHz	QPSK	19975	25RB#0	5.15	13	PASS
Band4	5MHz	16QAM	19975	25RB#0	5.94	13	PASS
Band4	5MHz	QPSK	20175	25RB#0	5.19	13	PASS
Band4	5MHz	16QAM	20175	25RB#0	5.95	13	PASS
Band4	5MHz	QPSK	20375	25RB#0	5.27	13	PASS
Band4	5MHz	16QAM	20375	25RB#0	6.05	13	PASS
Band4	10MHz	QPSK	20000	50RB#0	5.15	13	PASS
Band4	10MHz	16QAM	20000	50RB#0	5.94	13	PASS
Band4	10MHz	QPSK	20175	50RB#0	5.09	13	PASS
Band4	10MHz	16QAM	20175	50RB#0	5.89	13	PASS
Band4	10MHz	QPSK	20350	50RB#0	5.21	13	PASS
Band4	10MHz	16QAM	20350	50RB#0	5.99	13	PASS
Band4	20MHz	QPSK	20050	100RB#0	8.41	13	PASS
Band4	20MHz	16QAM	20050	100RB#0	8.41	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	4.96	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	5.84	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	5.14	13	PASS
Band4	20MHz	16QAM	20300	100RB#0	5.92	13	PASS
Band4	15MHz	QPSK	20025	75RB#0	5.42	13	PASS
Band4	15MHz	16QAM	20025	75RB#0	6.13	13	PASS
Band4	15MHz	QPSK	20175	75RB#0	5.22	13	PASS
Band4	15MHz	16QAM	20175	75RB#0	5.95	13	PASS
Band4	15MHz	QPSK	20325	75RB#0	5.38	13	PASS
Band4	15MHz	16QAM	20325	75RB#0	6.06	13	PASS

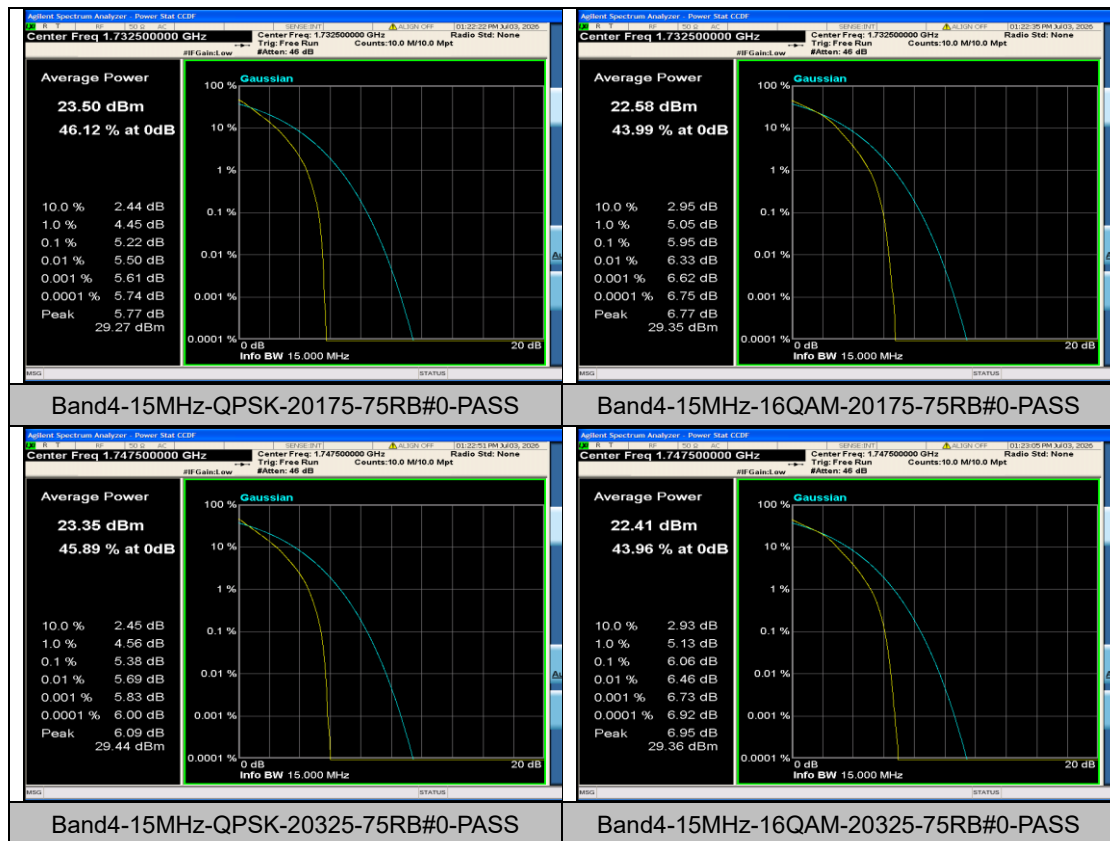
Test Graphs









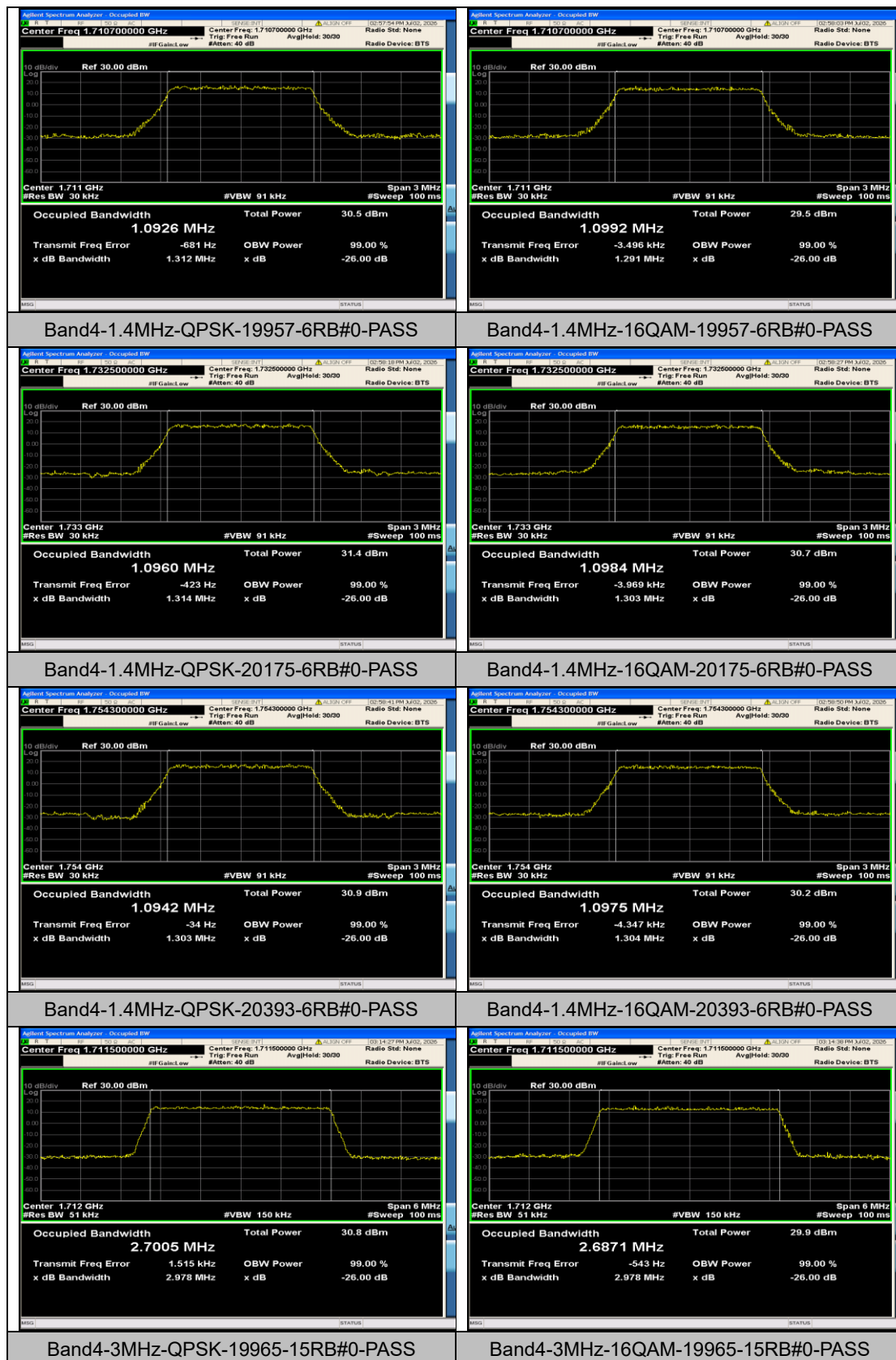


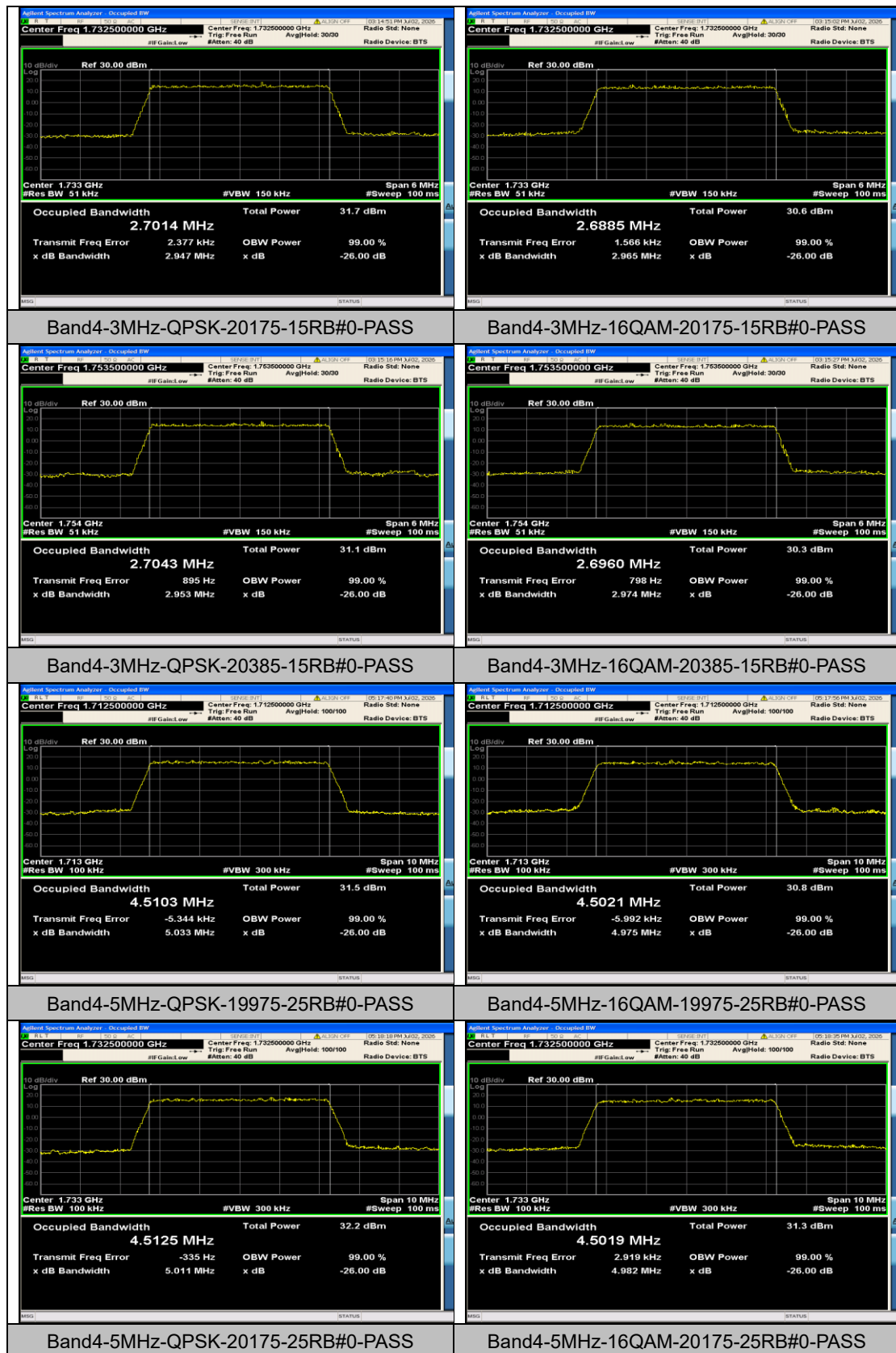
Appendix C: 26dB Bandwidth and Occupied Bandwidth

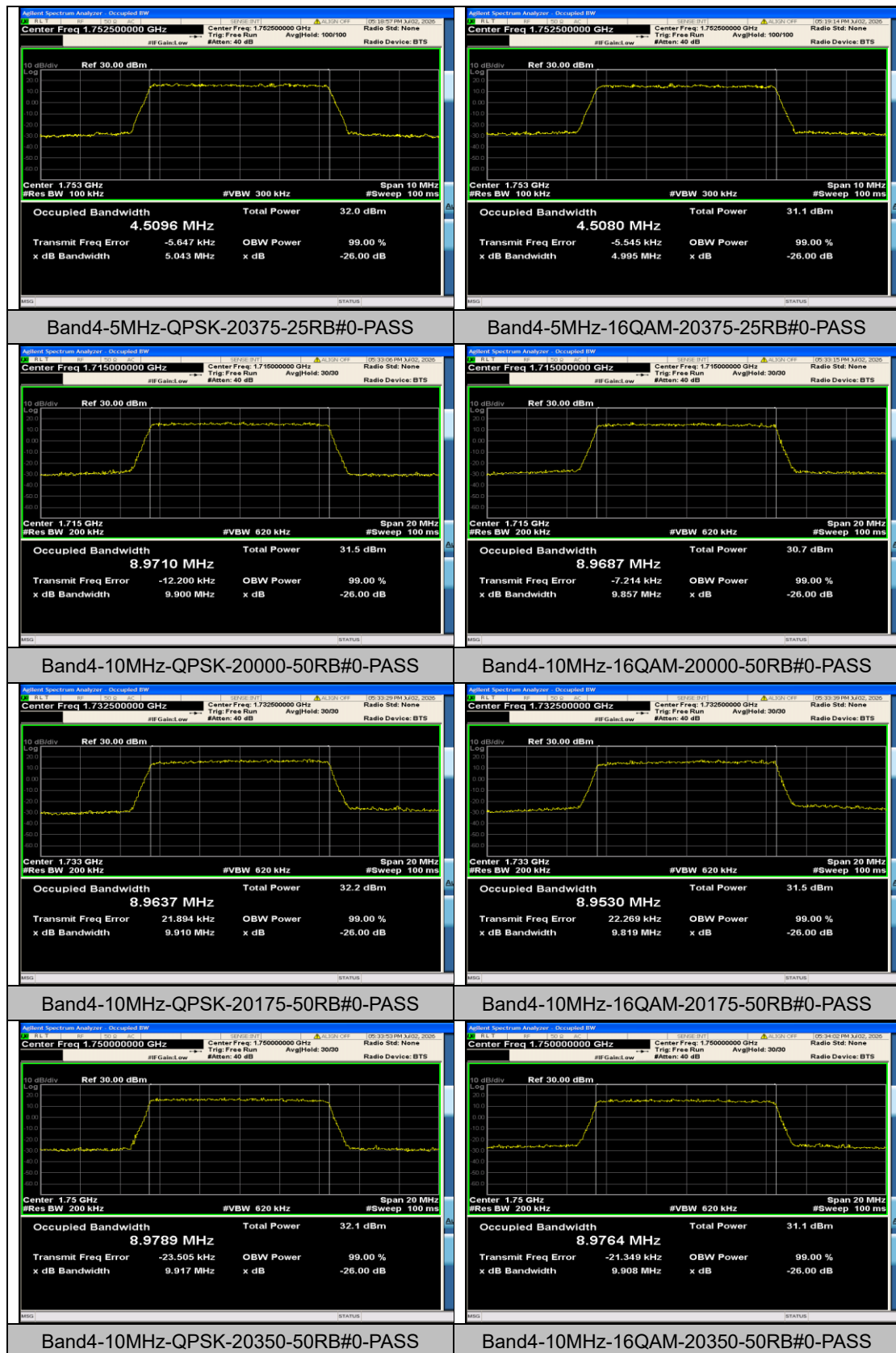
Test Result

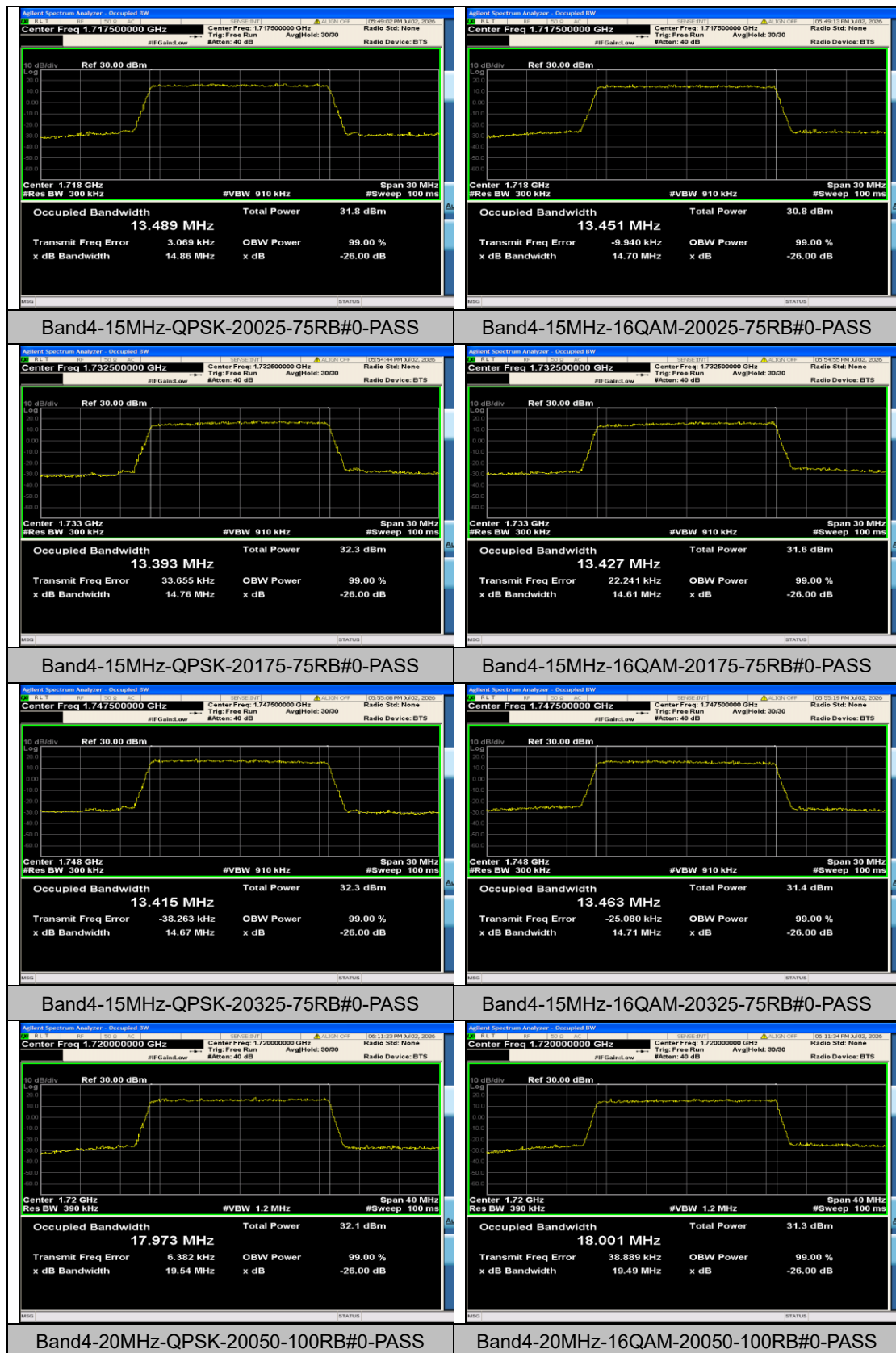
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band4	1.4MHz	QPSK	19957	6RB#0	1.0926	1.312	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.0992	1.291	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.0960	1.314	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.0984	1.303	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.0942	1.303	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.0975	1.304	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.7005	2.978	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.6871	2.978	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.7014	2.947	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.6885	2.965	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.7043	2.953	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.6960	2.974	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.5103	5.033	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.5021	4.975	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.5125	5.011	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.5019	4.982	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.5096	5.043	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.5080	4.995	PASS
Band4	10MHz	QPSK	20000	50RB#0	8.9710	9.900	PASS
Band4	10MHz	16QAM	20000	50RB#0	8.9687	9.857	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.9637	9.910	PASS
Band4	10MHz	16QAM	20175	50RB#0	8.9530	9.819	PASS
Band4	10MHz	QPSK	20350	50RB#0	8.9789	9.917	PASS
Band4	10MHz	16QAM	20350	50RB#0	8.9764	9.908	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.489	14.86	PASS
Band4	15MHz	16QAM	20025	75RB#0	13.451	14.70	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.393	14.76	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.427	14.61	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.415	14.67	PASS
Band4	15MHz	16QAM	20325	75RB#0	13.463	14.71	PASS
Band4	20MHz	QPSK	20050	100RB#0	17.973	19.54	PASS
Band4	20MHz	16QAM	20050	100RB#0	18.001	19.49	PASS
Band4	20MHz	QPSK	20175	100RB#0	17.851	19.34	PASS
Band4	20MHz	16QAM	20175	100RB#0	17.842	19.27	PASS
Band4	20MHz	QPSK	20300	100RB#0	17.910	19.59	PASS
Band4	20MHz	16QAM	20300	100RB#0	17.887	19.44	PASS

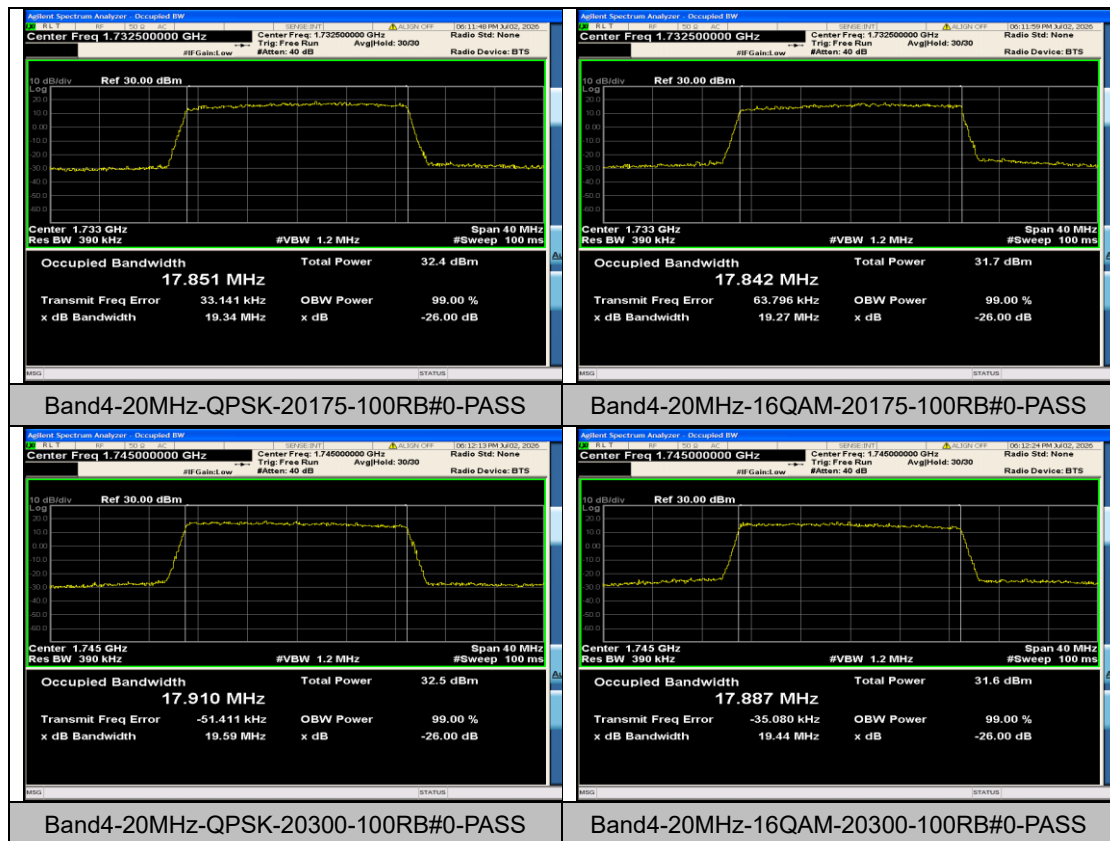
Test Graphs









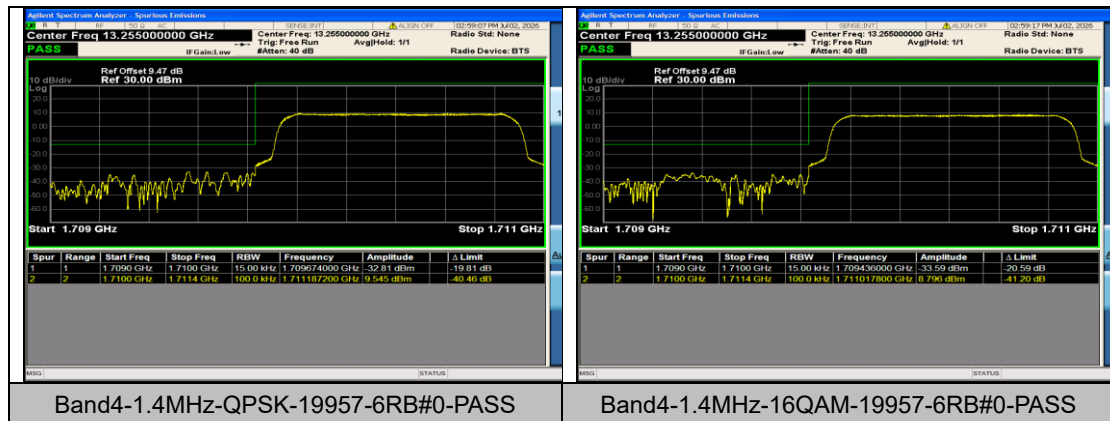


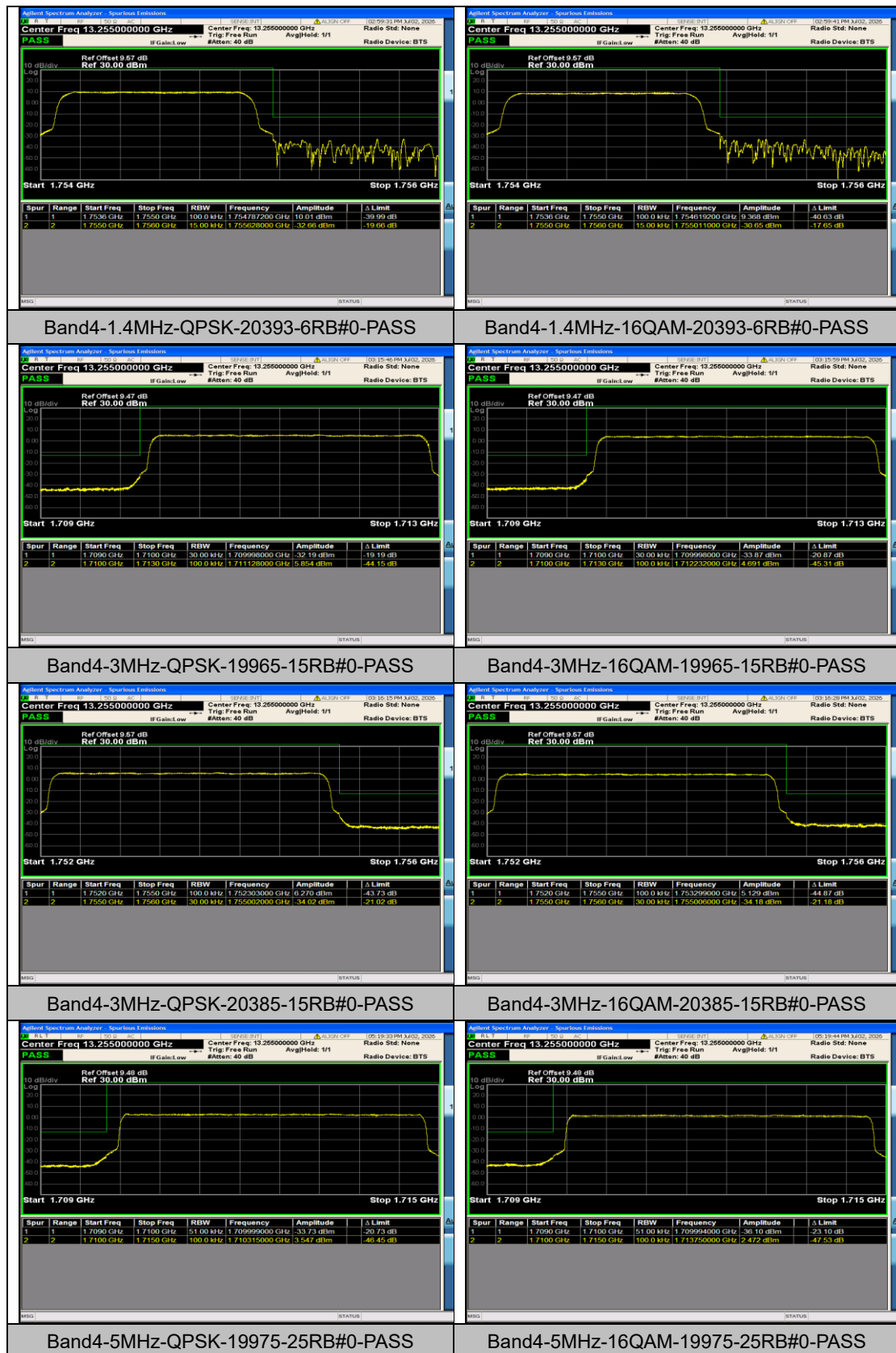
Appendix D: Band Edge

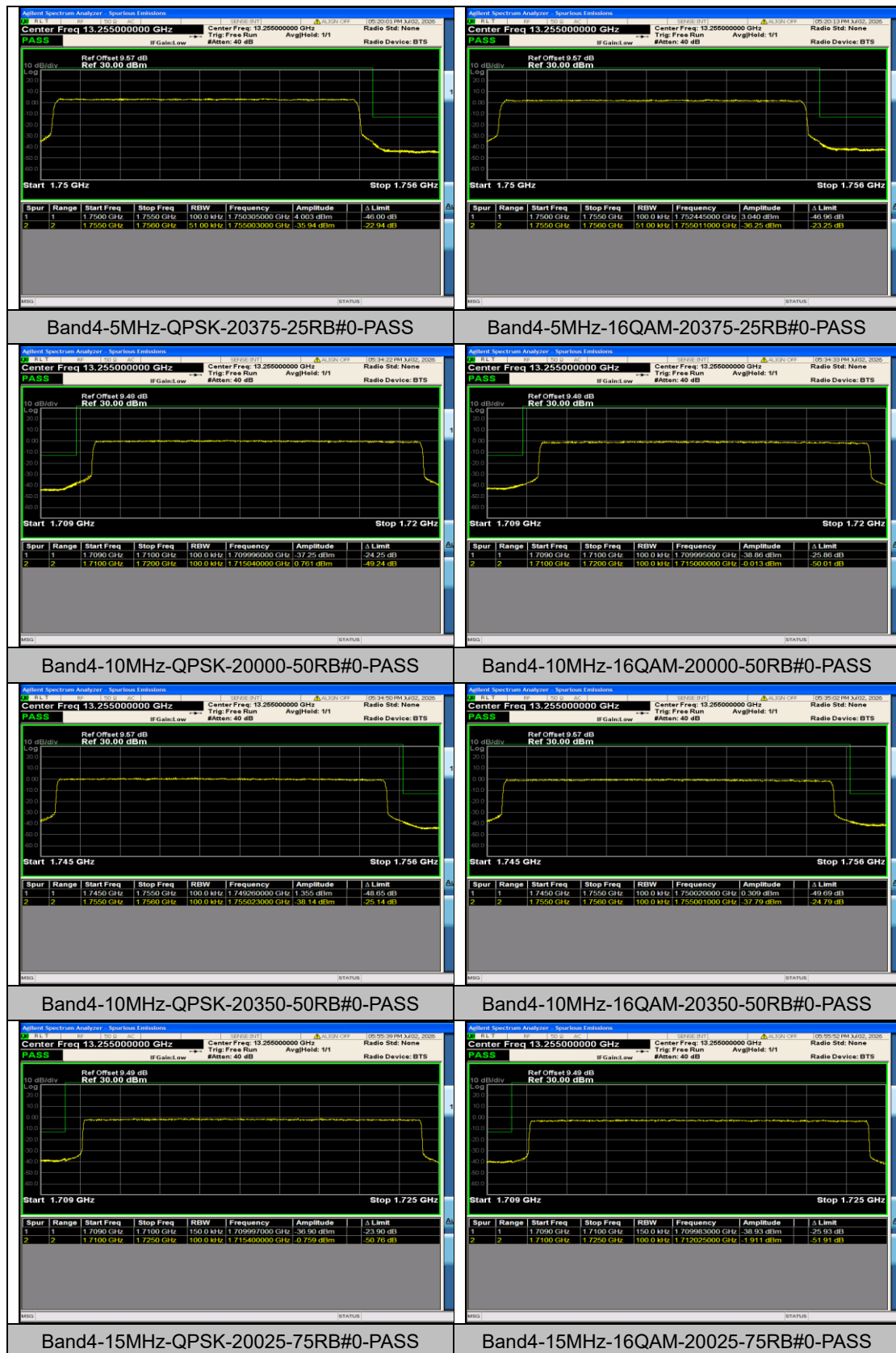
Test Result

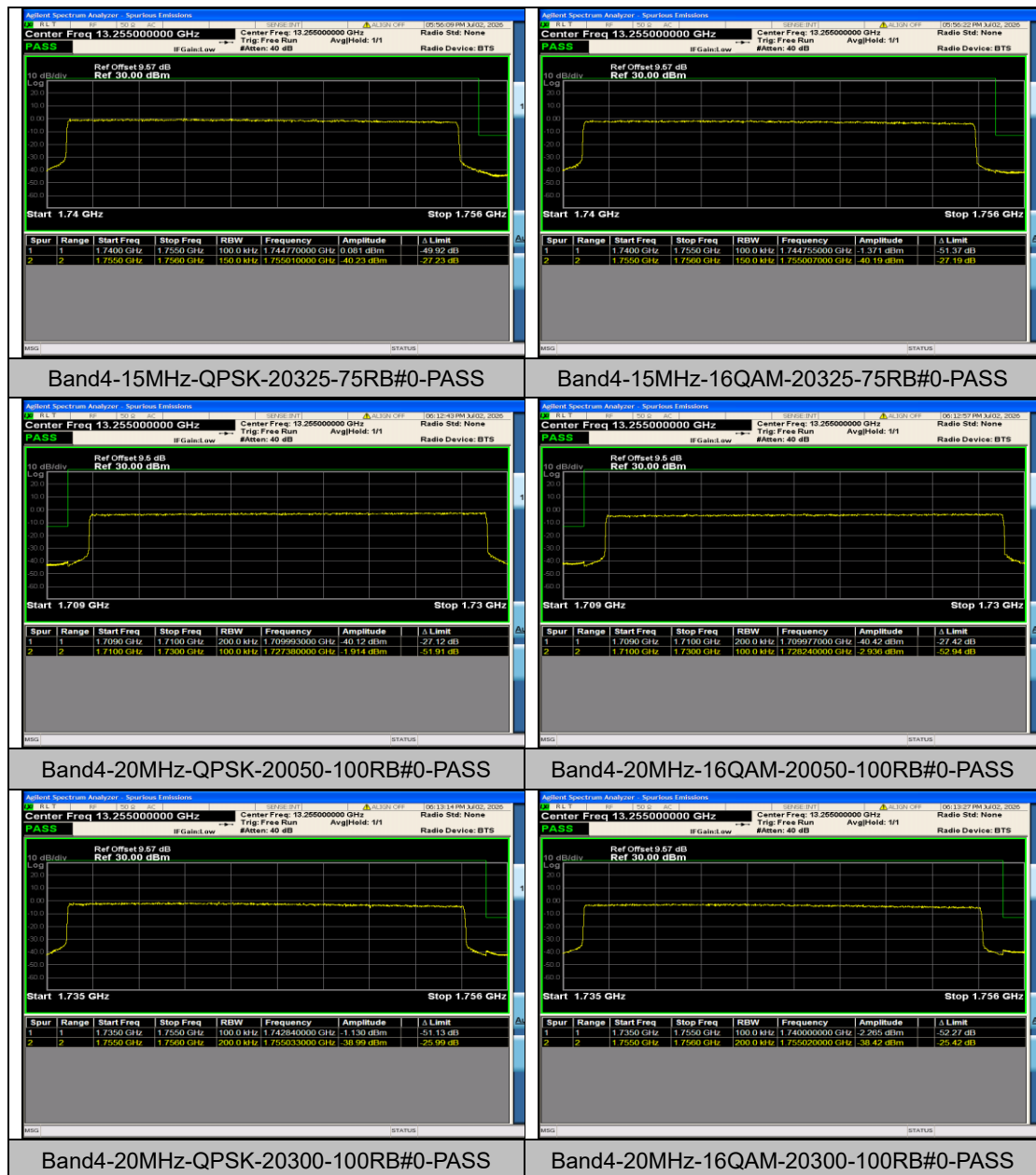
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band4	1.4MHz	QPSK	19957	6RB#0	-32.81	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	-33.59	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	-32.66	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	-30.65	PASS
Band4	3MHz	QPSK	19965	15RB#0	-32.19	PASS
Band4	3MHz	16QAM	19965	15RB#0	-33.87	PASS
Band4	3MHz	QPSK	20385	15RB#0	-34.02	PASS
Band4	3MHz	16QAM	20385	15RB#0	-34.18	PASS
Band4	5MHz	QPSK	19975	25RB#0	-33.73	PASS
Band4	5MHz	16QAM	19975	25RB#0	-36.10	PASS
Band4	5MHz	QPSK	20375	25RB#0	-35.94	PASS
Band4	5MHz	16QAM	20375	25RB#0	-36.25	PASS
Band4	10MHz	QPSK	20000	50RB#0	-37.25	PASS
Band4	10MHz	16QAM	20000	50RB#0	-38.86	PASS
Band4	10MHz	QPSK	20350	50RB#0	-38.14	PASS
Band4	10MHz	16QAM	20350	50RB#0	-37.79	PASS
Band4	15MHz	QPSK	20025	75RB#0	-36.90	PASS
Band4	15MHz	16QAM	20025	75RB#0	-38.93	PASS
Band4	15MHz	QPSK	20325	75RB#0	-40.23	PASS
Band4	15MHz	16QAM	20325	75RB#0	-40.19	PASS
Band4	20MHz	QPSK	20050	100RB#0	-40.12	PASS
Band4	20MHz	16QAM	20050	100RB#0	-40.42	PASS
Band4	20MHz	QPSK	20300	100RB#0	-38.99	PASS
Band4	20MHz	16QAM	20300	100RB#0	-38.42	PASS

Test Graphs









Appendix E: Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band4	1.4MHz	QPSK	19957	6RB#0	0.009~0.15	-58.67	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	0.15~30	-53.22	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	30~1000	-58.16	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	1000~3000	-26.37	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	3000~20000	-38.54	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	0.009~0.15	-59.72	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	0.15~30	-53.28	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	30~1000	-58.41	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1000~3000	-27.20	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	3000~20000	-38.94	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	0.009~0.15	-60.76	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	0.15~30	-51.33	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	30~1000	-57.25	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1000~3000	-47.65	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	3000~20000	-38.67	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	0.009~0.15	-59.02	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	0.15~30	-50.88	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	30~1000	-58.56	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1000~3000	-48.01	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	3000~20000	-38.41	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	0.009~0.15	-60.08	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	0.15~30	-51.69	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	30~1000	-58.35	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1000~3000	-24.07	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	3000~20000	-38.71	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	0.009~0.15	-59.47	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	0.15~30	-50.99	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	30~1000	-58.72	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1000~3000	-26.49	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	3000~20000	-38.47	PASS
Band4	3MHz	QPSK	19965	15RB#0	0.009~0.15	-59.22	PASS
Band4	3MHz	QPSK	19965	15RB#0	0.15~30	-51.70	PASS
Band4	3MHz	QPSK	19965	15RB#0	30~1000	-58.65	PASS
Band4	3MHz	QPSK	19965	15RB#0	1000~3000	-24.13	PASS
Band4	3MHz	QPSK	19965	15RB#0	3000~20000	-38.59	PASS
Band4	3MHz	16QAM	19965	15RB#0	0.009~0.15	-60.48	PASS

Band4	3MHz	16QAM	19965	15RB#0	0.15~30	-51.71	PASS
Band4	3MHz	16QAM	19965	15RB#0	30~1000	-58.15	PASS
Band4	3MHz	16QAM	19965	15RB#0	1000~3000	-26.07	PASS
Band4	3MHz	16QAM	19965	15RB#0	3000~20000	-38.27	PASS
Band4	3MHz	QPSK	20175	15RB#0	0.009~0.15	-58.35	PASS
Band4	3MHz	QPSK	20175	15RB#0	0.15~30	-52.22	PASS
Band4	3MHz	QPSK	20175	15RB#0	30~1000	-58.11	PASS
Band4	3MHz	QPSK	20175	15RB#0	1000~3000	-48.21	PASS
Band4	3MHz	QPSK	20175	15RB#0	3000~20000	-38.39	PASS
Band4	3MHz	16QAM	20175	15RB#0	0.009~0.15	-59.13	PASS
Band4	3MHz	16QAM	20175	15RB#0	0.15~30	-53.26	PASS
Band4	3MHz	16QAM	20175	15RB#0	30~1000	-57.60	PASS
Band4	3MHz	16QAM	20175	15RB#0	1000~3000	-48.14	PASS
Band4	3MHz	16QAM	20175	15RB#0	3000~20000	-38.63	PASS
Band4	3MHz	QPSK	20385	15RB#0	0.009~0.15	-58.99	PASS
Band4	3MHz	QPSK	20385	15RB#0	0.15~30	-53.24	PASS
Band4	3MHz	QPSK	20385	15RB#0	30~1000	-57.71	PASS
Band4	3MHz	QPSK	20385	15RB#0	1000~3000	-24.41	PASS
Band4	3MHz	QPSK	20385	15RB#0	3000~20000	-38.80	PASS
Band4	3MHz	16QAM	20385	15RB#0	0.009~0.15	-59.80	PASS
Band4	3MHz	16QAM	20385	15RB#0	0.15~30	-53.01	PASS
Band4	3MHz	16QAM	20385	15RB#0	30~1000	-58.03	PASS
Band4	3MHz	16QAM	20385	15RB#0	1000~3000	-25.11	PASS
Band4	3MHz	16QAM	20385	15RB#0	3000~20000	-38.35	PASS
Band4	5MHz	QPSK	19975	25RB#0	0.009~0.15	-59.67	PASS
Band4	5MHz	QPSK	19975	25RB#0	0.15~30	-53.59	PASS
Band4	5MHz	QPSK	19975	25RB#0	30~1000	-58.04	PASS
Band4	5MHz	QPSK	19975	25RB#0	1000~3000	-27.64	PASS
Band4	5MHz	QPSK	19975	25RB#0	3000~20000	-38.70	PASS
Band4	5MHz	16QAM	19975	25RB#0	0.009~0.15	-59.70	PASS
Band4	5MHz	16QAM	19975	25RB#0	0.15~30	-52.66	PASS
Band4	5MHz	16QAM	19975	25RB#0	30~1000	-57.81	PASS
Band4	5MHz	16QAM	19975	25RB#0	1000~3000	-27.60	PASS
Band4	5MHz	16QAM	19975	25RB#0	3000~20000	-38.85	PASS
Band4	5MHz	QPSK	20175	25RB#0	0.009~0.15	-60.13	PASS
Band4	5MHz	QPSK	20175	25RB#0	0.15~30	-52.00	PASS
Band4	5MHz	QPSK	20175	25RB#0	30~1000	-58.50	PASS
Band4	5MHz	QPSK	20175	25RB#0	1000~3000	-47.95	PASS
Band4	5MHz	QPSK	20175	25RB#0	3000~20000	-38.39	PASS
Band4	5MHz	16QAM	20175	25RB#0	0.009~0.15	-59.36	PASS
Band4	5MHz	16QAM	20175	25RB#0	0.15~30	-49.79	PASS
Band4	5MHz	16QAM	20175	25RB#0	30~1000	-57.95	PASS
Band4	5MHz	16QAM	20175	25RB#0	1000~3000	-47.82	PASS

Band4	5MHz	16QAM	20175	25RB#0	3000~20000	-38.51	PASS
Band4	5MHz	QPSK	20375	25RB#0	0.009~0.15	-60.33	PASS
Band4	5MHz	QPSK	20375	25RB#0	0.15~30	-49.71	PASS
Band4	5MHz	QPSK	20375	25RB#0	30~1000	-58.58	PASS
Band4	5MHz	QPSK	20375	25RB#0	1000~3000	-26.20	PASS
Band4	5MHz	QPSK	20375	25RB#0	3000~20000	-38.56	PASS
Band4	5MHz	16QAM	20375	25RB#0	0.009~0.15	-60.36	PASS
Band4	5MHz	16QAM	20375	25RB#0	0.15~30	-52.26	PASS
Band4	5MHz	16QAM	20375	25RB#0	30~1000	-57.87	PASS
Band4	5MHz	16QAM	20375	25RB#0	1000~3000	-25.44	PASS
Band4	5MHz	16QAM	20375	25RB#0	3000~20000	-38.63	PASS
Band4	10MHz	QPSK	20000	50RB#0	0.009~0.15	-58.19	PASS
Band4	10MHz	QPSK	20000	50RB#0	0.15~30	-53.41	PASS
Band4	10MHz	QPSK	20000	50RB#0	30~1000	-58.55	PASS
Band4	10MHz	QPSK	20000	50RB#0	1000~3000	-30.72	PASS
Band4	10MHz	QPSK	20000	50RB#0	3000~20000	-37.96	PASS
Band4	10MHz	16QAM	20000	50RB#0	0.009~0.15	-58.98	PASS
Band4	10MHz	16QAM	20000	50RB#0	0.15~30	-52.43	PASS
Band4	10MHz	16QAM	20000	50RB#0	30~1000	-58.04	PASS
Band4	10MHz	16QAM	20000	50RB#0	1000~3000	-29.17	PASS
Band4	10MHz	16QAM	20000	50RB#0	3000~20000	-38.50	PASS
Band4	10MHz	QPSK	20175	50RB#0	0.009~0.15	-58.20	PASS
Band4	10MHz	QPSK	20175	50RB#0	0.15~30	-52.25	PASS
Band4	10MHz	QPSK	20175	50RB#0	30~1000	-58.62	PASS
Band4	10MHz	QPSK	20175	50RB#0	1000~3000	-45.08	PASS
Band4	10MHz	QPSK	20175	50RB#0	3000~20000	-38.46	PASS
Band4	10MHz	16QAM	20175	50RB#0	0.009~0.15	-60.00	PASS
Band4	10MHz	16QAM	20175	50RB#0	0.15~30	-51.87	PASS
Band4	10MHz	16QAM	20175	50RB#0	30~1000	-57.53	PASS
Band4	10MHz	16QAM	20175	50RB#0	1000~3000	-45.88	PASS
Band4	10MHz	16QAM	20175	50RB#0	3000~20000	-38.06	PASS
Band4	10MHz	QPSK	20350	50RB#0	0.009~0.15	-59.84	PASS
Band4	10MHz	QPSK	20350	50RB#0	0.15~30	-53.67	PASS
Band4	10MHz	QPSK	20350	50RB#0	30~1000	-58.48	PASS
Band4	10MHz	QPSK	20350	50RB#0	1000~3000	-28.43	PASS
Band4	10MHz	QPSK	20350	50RB#0	3000~20000	-38.43	PASS
Band4	10MHz	16QAM	20350	50RB#0	0.009~0.15	-60.55	PASS
Band4	10MHz	16QAM	20350	50RB#0	0.15~30	-51.72	PASS
Band4	10MHz	16QAM	20350	50RB#0	30~1000	-58.48	PASS
Band4	10MHz	16QAM	20350	50RB#0	1000~3000	-27.31	PASS
Band4	10MHz	16QAM	20350	50RB#0	3000~20000	-38.70	PASS
Band4	15MHz	QPSK	20025	75RB#0	0.009~0.15	-58.76	PASS
Band4	15MHz	QPSK	20025	75RB#0	0.15~30	-51.73	PASS