

FCC Appendix RF Test Data for LTE Band 12

FCC ID : **R38YLCPK23**

Company : **Yulong Computer Telecommunication Scientific
(Shenzhen) Co., Ltd**

EUT : **Smart Phone**

Model Number : **K23**

Report No. : **CTA26032500707**

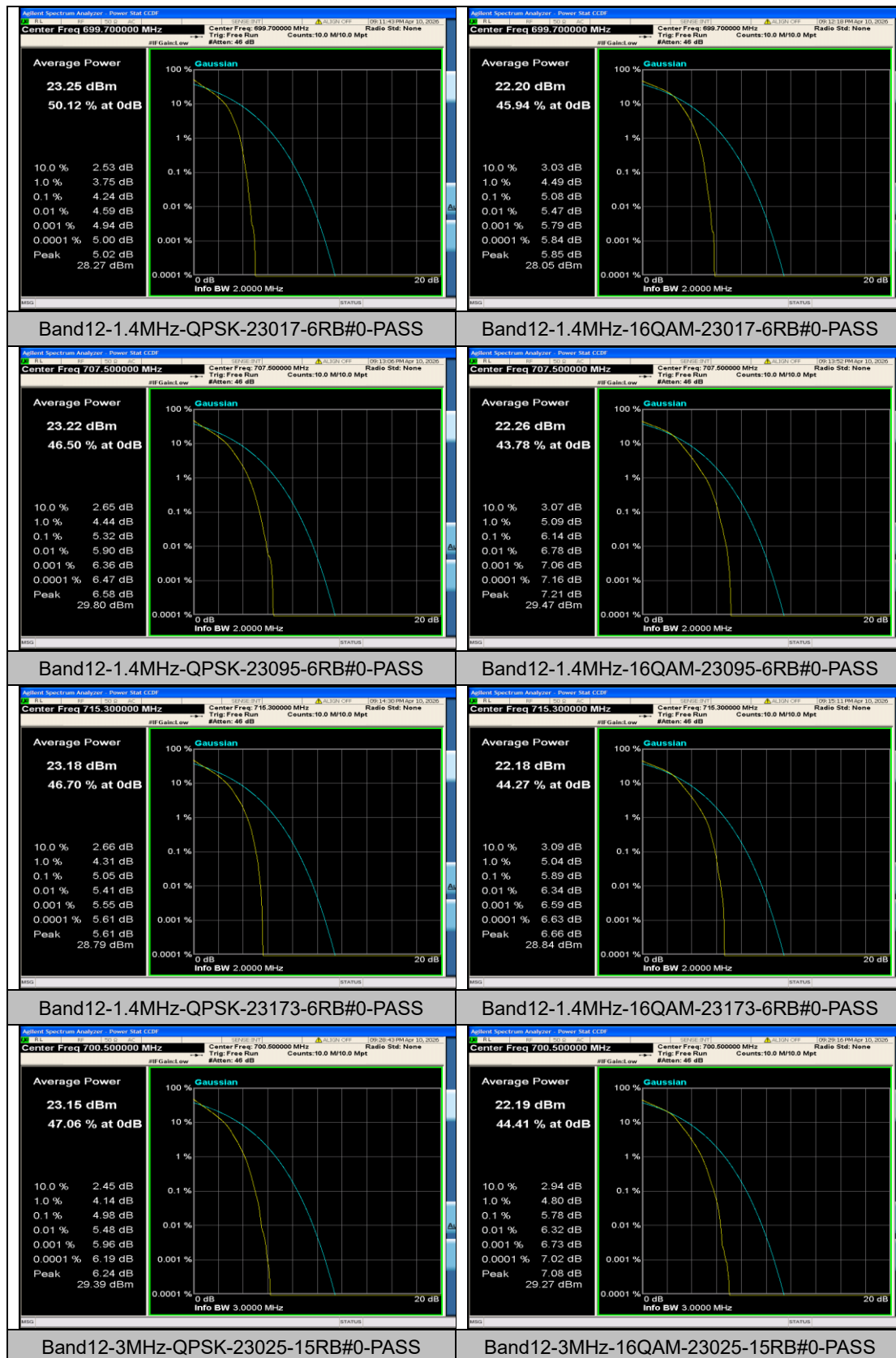
Reviewed By : **Eric Wang**

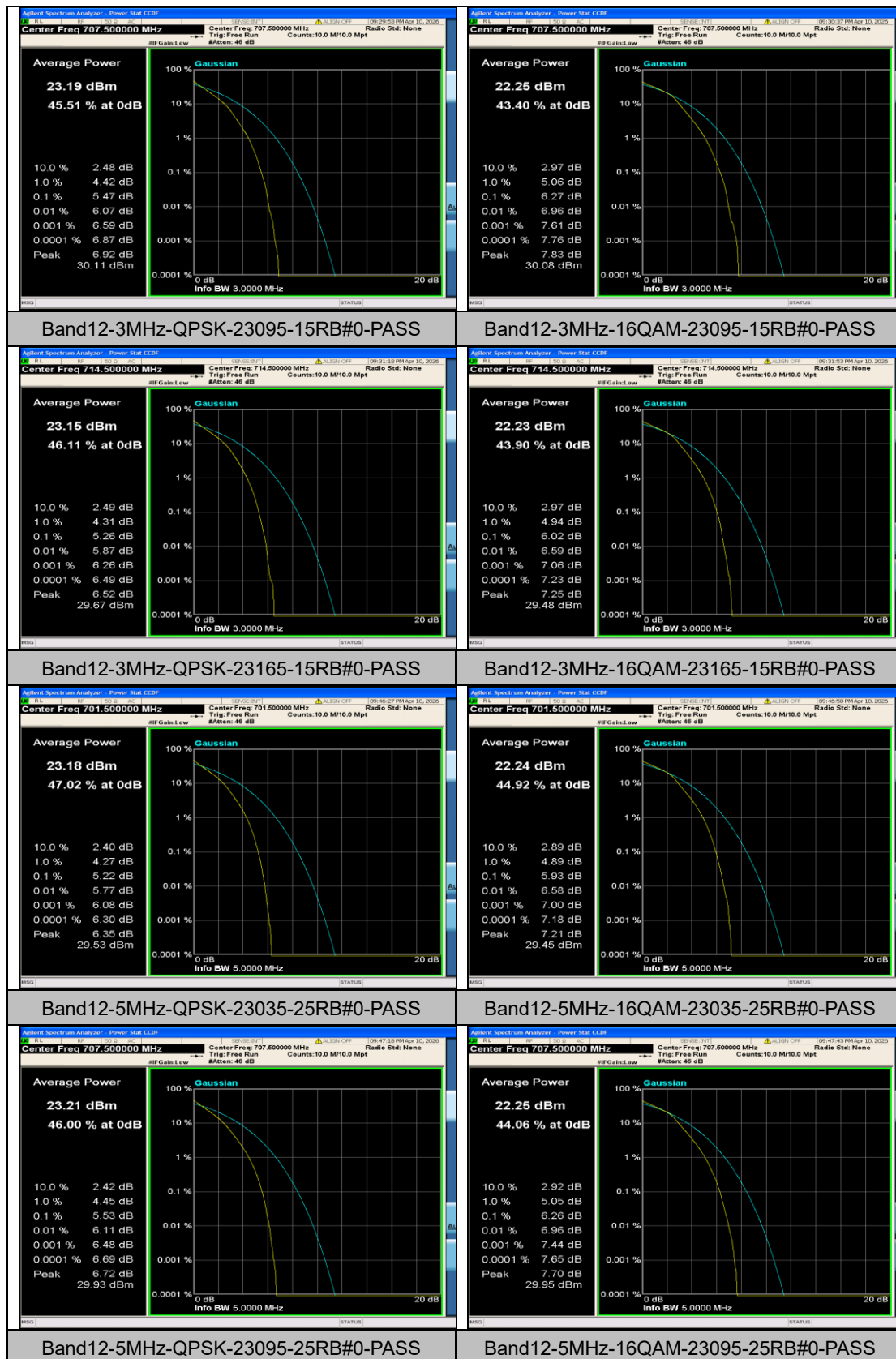
Appendix A: Peak-to-Average Ratio(CCDF)

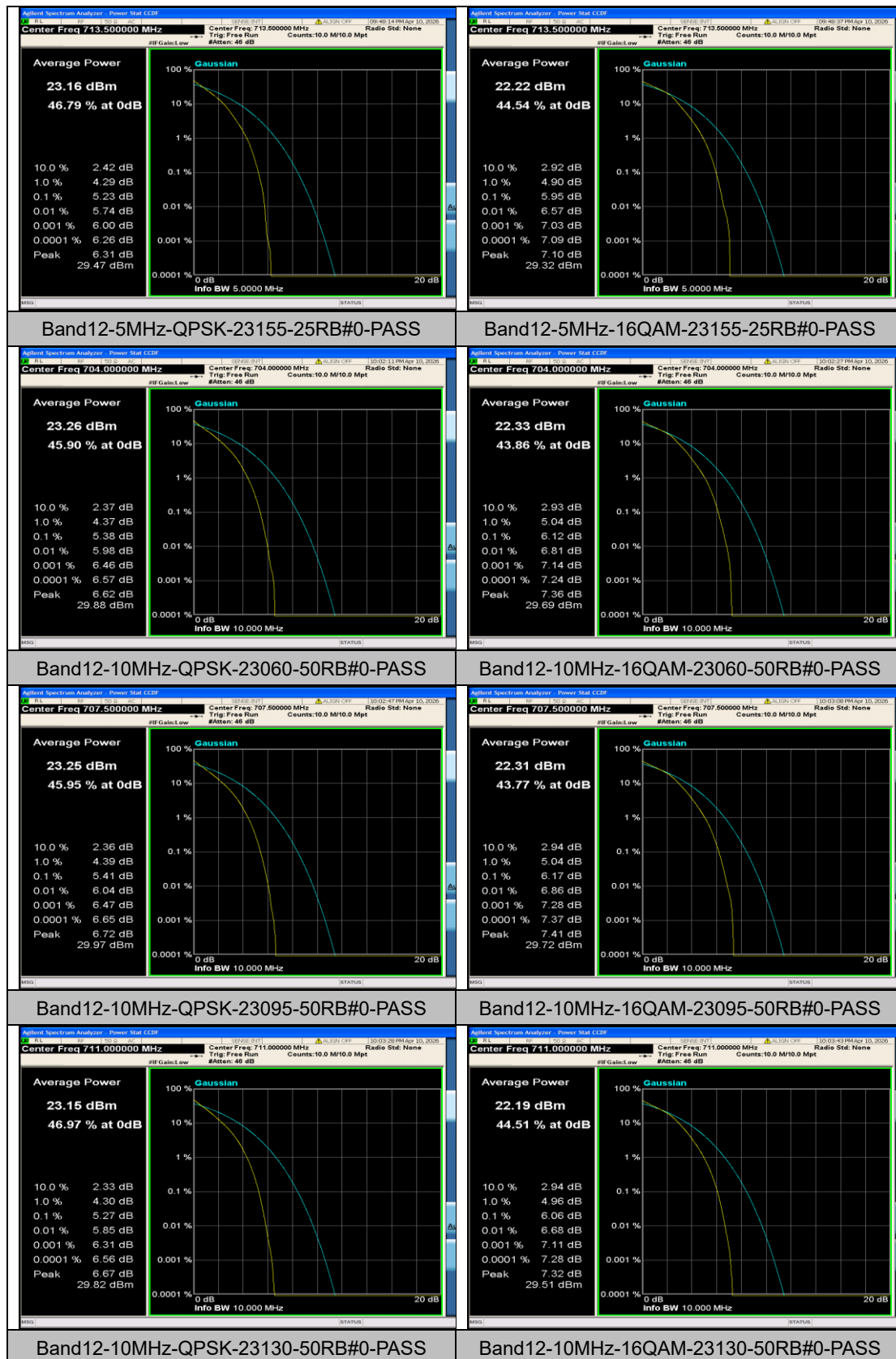
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	4.24	13	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	5.08	13	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	5.32	13	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	6.14	13	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	5.05	13	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	5.89	13	PASS
Band12	3MHz	QPSK	23025	15RB#0	4.98	13	PASS
Band12	3MHz	16QAM	23025	15RB#0	5.78	13	PASS
Band12	3MHz	QPSK	23095	15RB#0	5.47	13	PASS
Band12	3MHz	16QAM	23095	15RB#0	6.27	13	PASS
Band12	3MHz	QPSK	23165	15RB#0	5.26	13	PASS
Band12	3MHz	16QAM	23165	15RB#0	6.02	13	PASS
Band12	5MHz	QPSK	23035	25RB#0	5.22	13	PASS
Band12	5MHz	16QAM	23035	25RB#0	5.93	13	PASS
Band12	5MHz	QPSK	23095	25RB#0	5.53	13	PASS
Band12	5MHz	16QAM	23095	25RB#0	6.26	13	PASS
Band12	5MHz	QPSK	23155	25RB#0	5.23	13	PASS
Band12	5MHz	16QAM	23155	25RB#0	5.95	13	PASS
Band12	10MHz	QPSK	23060	50RB#0	5.38	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	6.12	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.41	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	6.17	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.27	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	6.06	13	PASS

Test Graphs





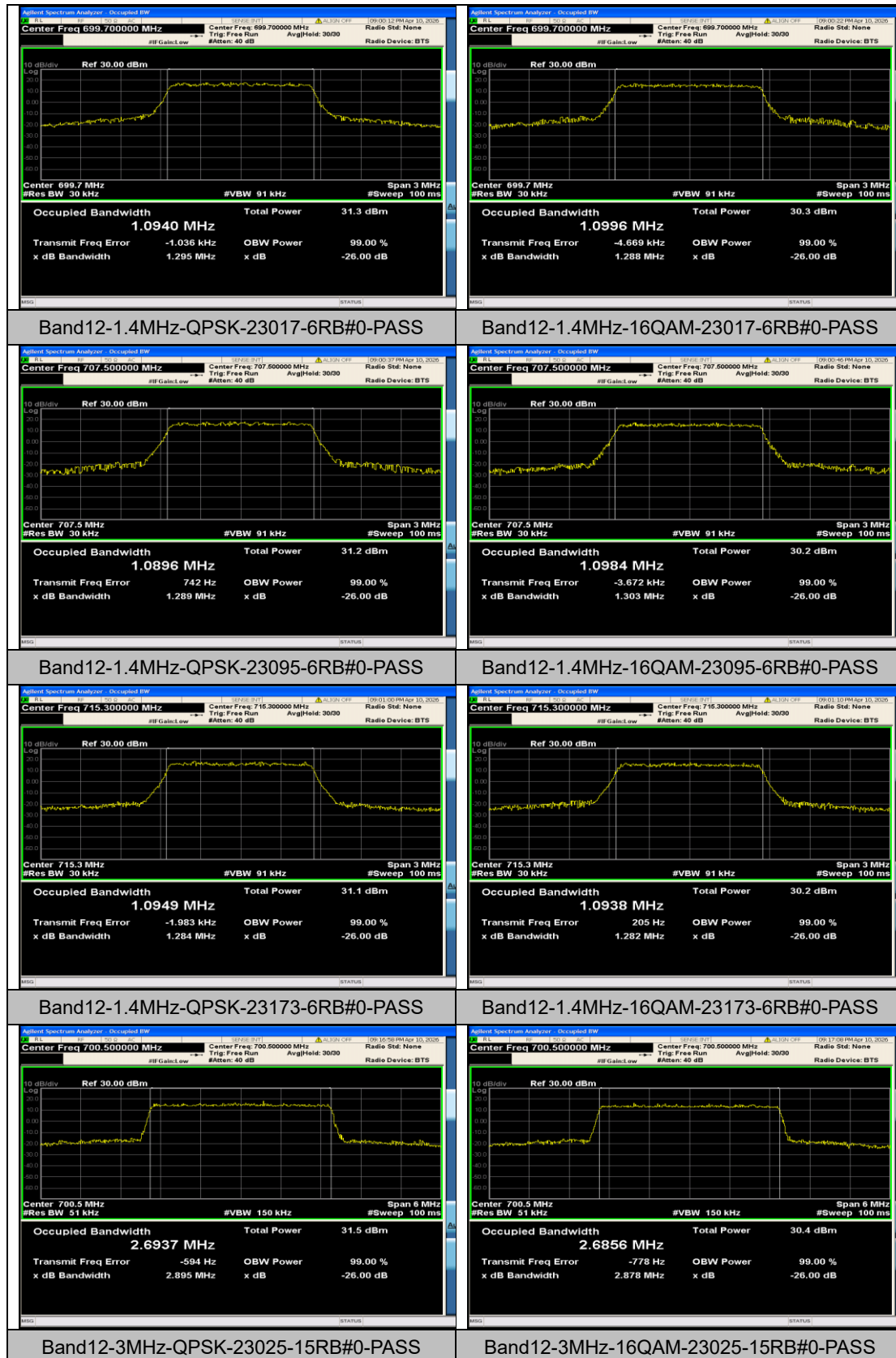


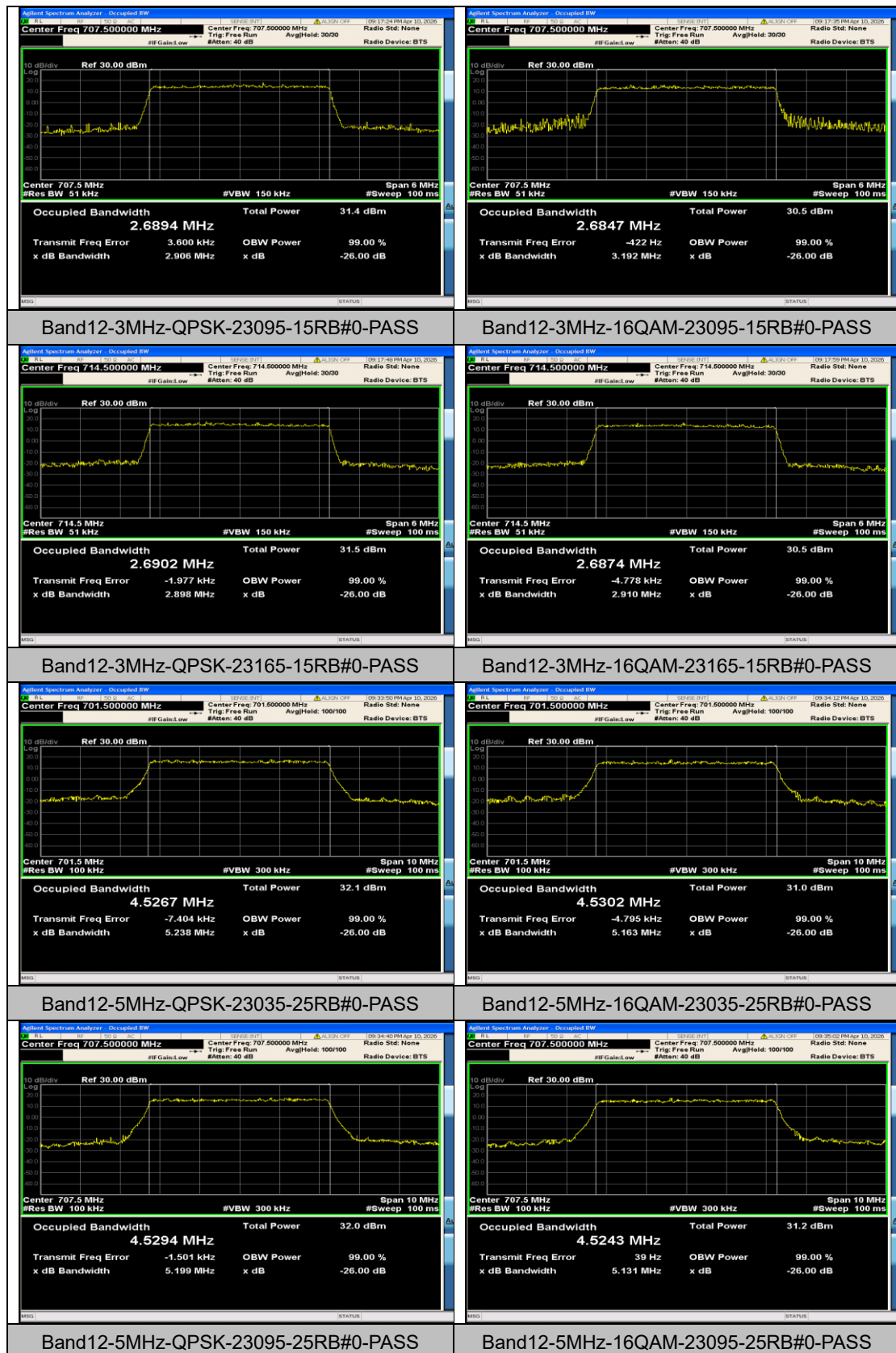
Appendix B: 26dB Bandwidth and Occupied Bandwidth

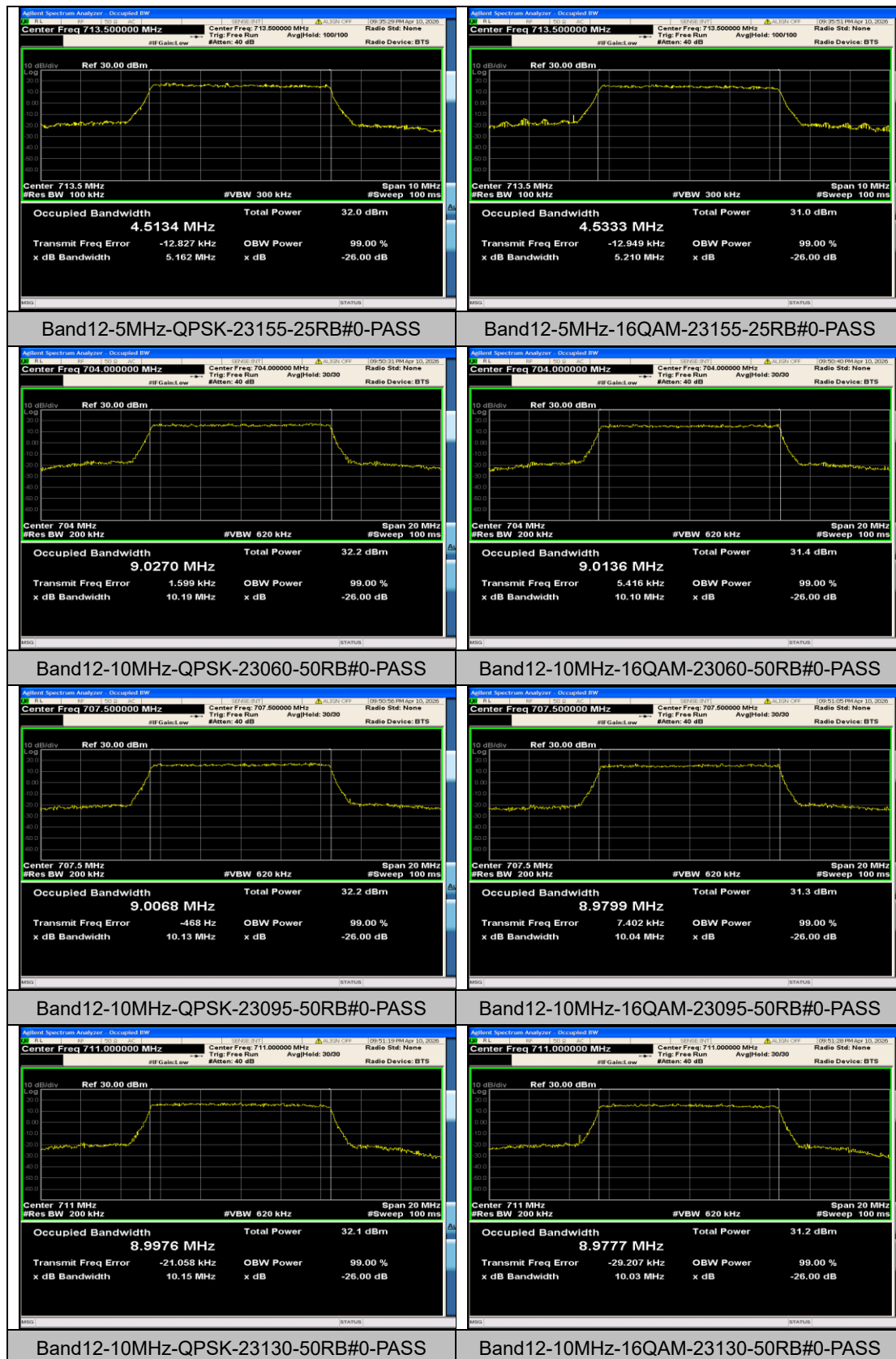
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.0940	1.295	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.0996	1.288	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.0896	1.289	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.0984	1.303	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.0949	1.284	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.0938	1.282	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.6937	2.895	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.6856	2.878	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.6894	2.906	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.6847	3.192	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.6902	2.898	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.6874	2.910	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.5267	5.238	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.5302	5.163	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.5294	5.199	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.5243	5.131	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.5134	5.162	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.5333	5.210	PASS
Band12	10MHz	QPSK	23060	50RB#0	9.0270	10.19	PASS
Band12	10MHz	16QAM	23060	50RB#0	9.0136	10.10	PASS
Band12	10MHz	QPSK	23095	50RB#0	9.0068	10.13	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.9799	10.04	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.9976	10.15	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.9777	10.03	PASS

Test Graphs





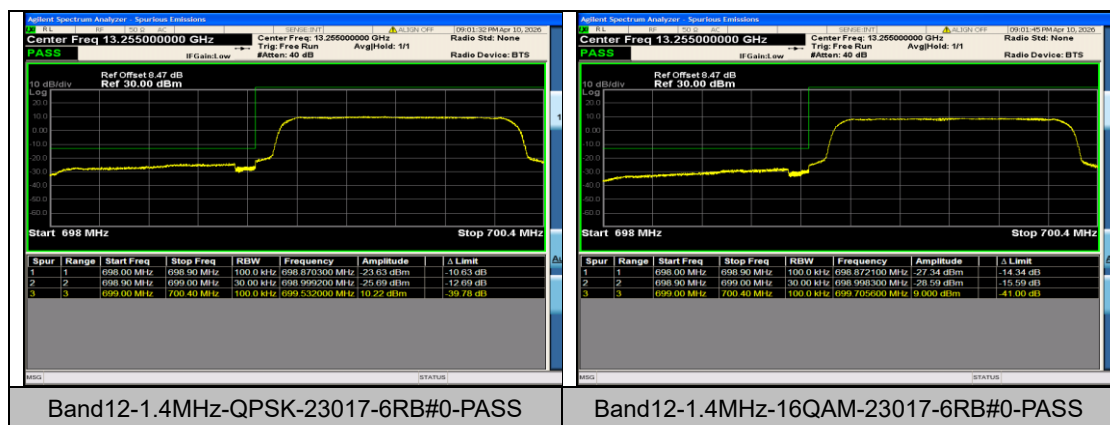


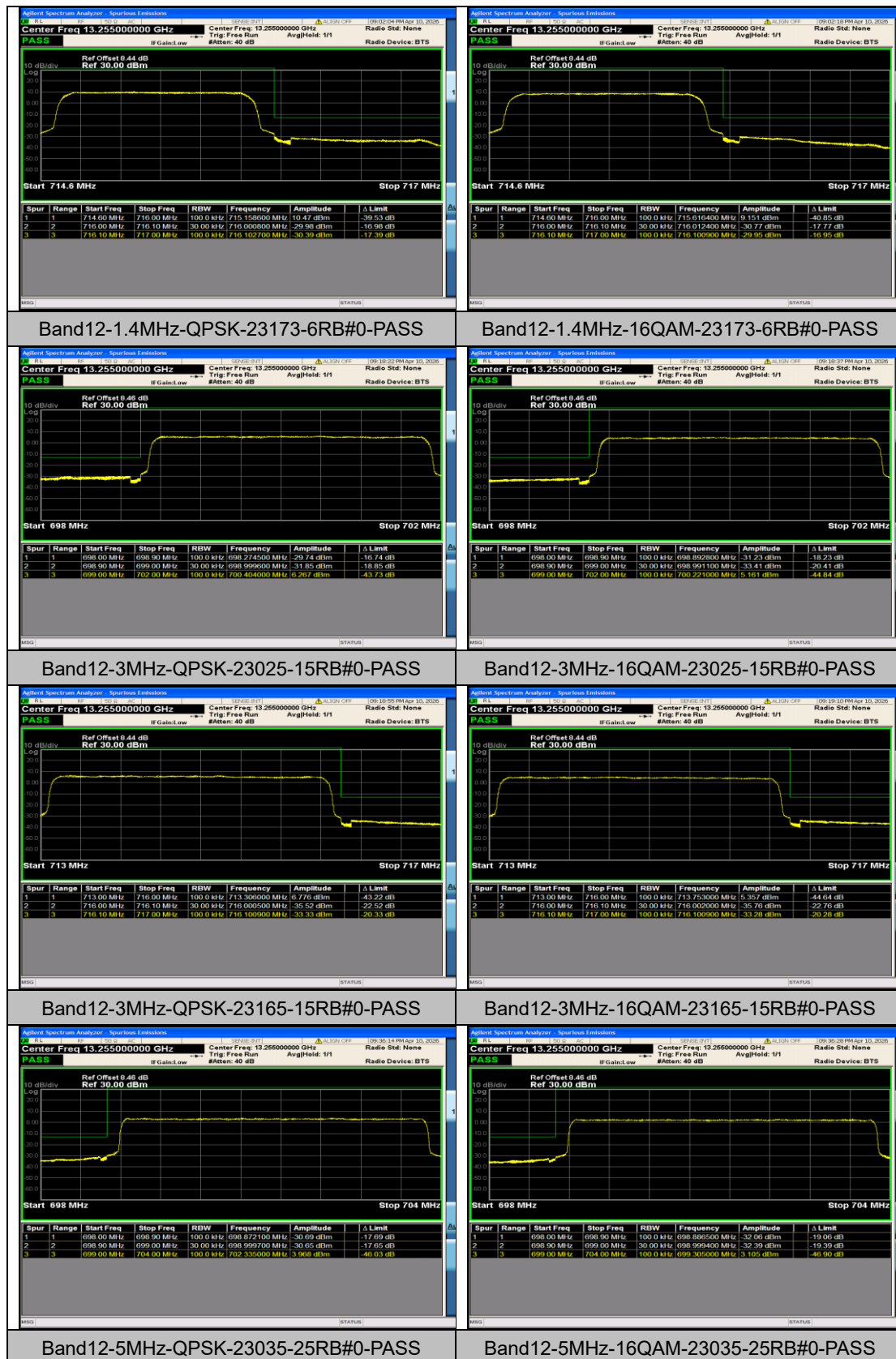
Appendix C: Band Edge

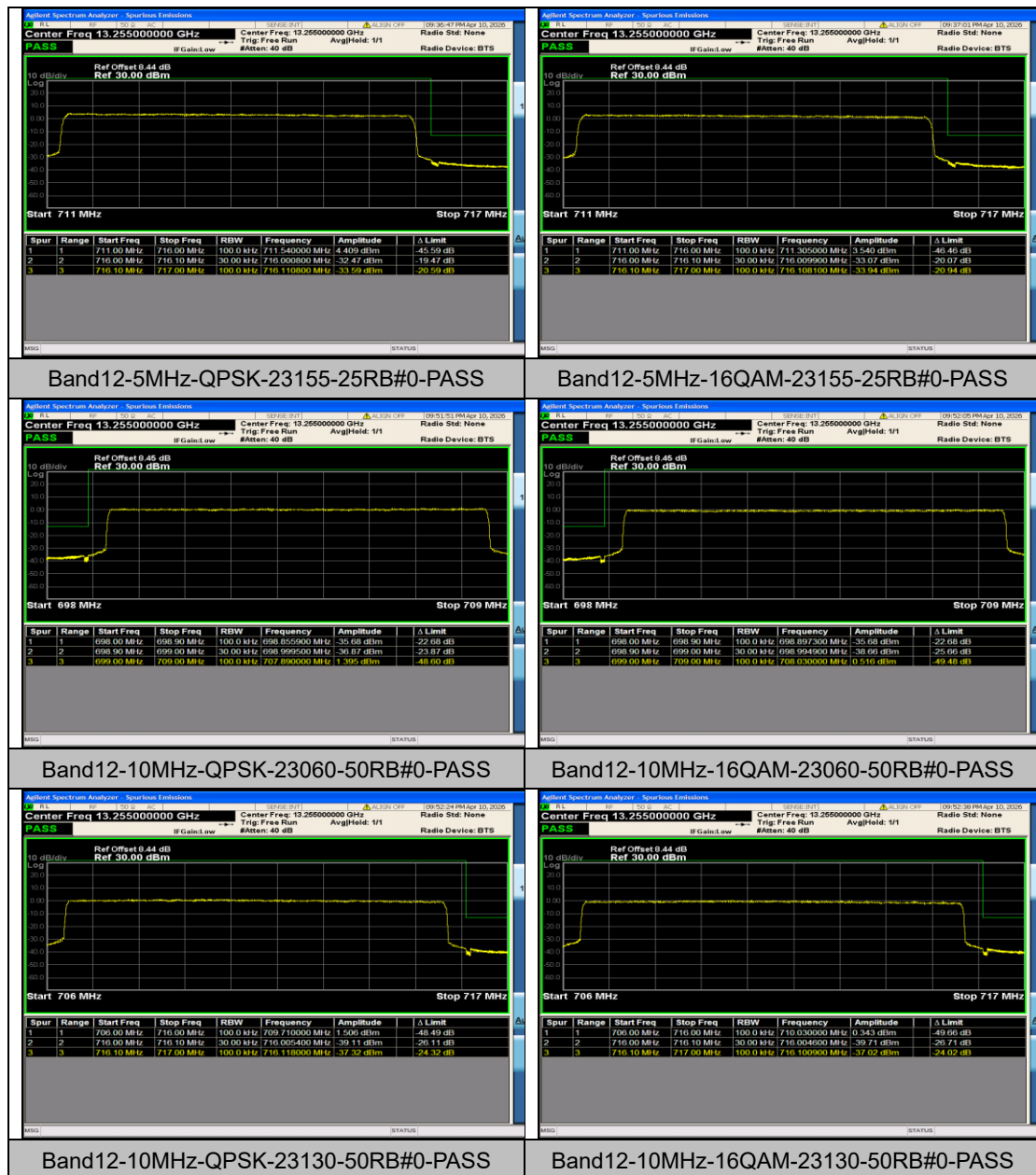
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	-23.63	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	-27.34	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	-29.98	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	-29.95	PASS
Band12	3MHz	QPSK	23025	15RB#0	-29.74	PASS
Band12	3MHz	16QAM	23025	15RB#0	-31.23	PASS
Band12	3MHz	QPSK	23165	15RB#0	-33.33	PASS
Band12	3MHz	16QAM	23165	15RB#0	-33.28	PASS
Band12	5MHz	QPSK	23035	25RB#0	-30.65	PASS
Band12	5MHz	16QAM	23035	25RB#0	-32.06	PASS
Band12	5MHz	QPSK	23155	25RB#0	-32.47	PASS
Band12	5MHz	16QAM	23155	25RB#0	-33.07	PASS
Band12	10MHz	QPSK	23060	50RB#0	-35.68	PASS
Band12	10MHz	16QAM	23060	50RB#0	-35.68	PASS
Band12	10MHz	QPSK	23130	50RB#0	-37.32	PASS
Band12	10MHz	16QAM	23130	50RB#0	-37.02	PASS

Test Graphs







Appendix D: Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	0.009~0.15	-61.11	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	0.15~30	-52.25	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	30~1000	-31.08	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	1000~3000	-46.93	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	3000~10000	-44.01	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	0.009~0.15	-60.91	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	0.15~30	-51.72	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	30~1000	-28.30	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1000~3000	-48.03	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	3000~10000	-44.18	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	0.009~0.15	-60.99	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	0.15~30	-53.08	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	30~1000	-34.54	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1000~3000	-48.27	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	3000~10000	-43.74	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	0.009~0.15	-60.38	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	0.15~30	-52.49	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	30~1000	-37.87	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1000~3000	-48.05	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	3000~10000	-44.06	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	0.009~0.15	-59.63	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	0.15~30	-53.36	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	30~1000	-34.62	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1000~3000	-48.12	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	3000~10000	-43.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	0.009~0.15	-59.69	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	0.15~30	-51.40	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	30~1000	-32.80	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1000~3000	-47.98	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	3000~10000	-44.09	PASS
Band12	3MHz	QPSK	23025	15RB#0	0.009~0.15	-61.15	PASS
Band12	3MHz	QPSK	23025	15RB#0	0.15~30	-52.15	PASS
Band12	3MHz	QPSK	23025	15RB#0	30~1000	-25.06	PASS
Band12	3MHz	QPSK	23025	15RB#0	1000~3000	-48.19	PASS
Band12	3MHz	QPSK	23025	15RB#0	3000~10000	-43.79	PASS
Band12	3MHz	16QAM	23025	15RB#0	0.009~0.15	-60.41	PASS

Band12	3MHz	16QAM	23025	15RB#0	0.15~30	-50.24	PASS
Band12	3MHz	16QAM	23025	15RB#0	30~1000	-27.13	PASS
Band12	3MHz	16QAM	23025	15RB#0	1000~3000	-48.25	PASS
Band12	3MHz	16QAM	23025	15RB#0	3000~10000	-44.10	PASS
Band12	3MHz	QPSK	23095	15RB#0	0.009~0.15	-61.02	PASS
Band12	3MHz	QPSK	23095	15RB#0	0.15~30	-51.77	PASS
Band12	3MHz	QPSK	23095	15RB#0	30~1000	-35.03	PASS
Band12	3MHz	QPSK	23095	15RB#0	1000~3000	-47.95	PASS
Band12	3MHz	QPSK	23095	15RB#0	3000~10000	-43.89	PASS
Band12	3MHz	16QAM	23095	15RB#0	0.009~0.15	-60.46	PASS
Band12	3MHz	16QAM	23095	15RB#0	0.15~30	-50.82	PASS
Band12	3MHz	16QAM	23095	15RB#0	30~1000	-53.11	PASS
Band12	3MHz	16QAM	23095	15RB#0	1000~3000	-48.15	PASS
Band12	3MHz	16QAM	23095	15RB#0	3000~10000	-44.07	PASS
Band12	3MHz	QPSK	23165	15RB#0	0.009~0.15	-60.48	PASS
Band12	3MHz	QPSK	23165	15RB#0	0.15~30	-50.53	PASS
Band12	3MHz	QPSK	23165	15RB#0	30~1000	-29.78	PASS
Band12	3MHz	QPSK	23165	15RB#0	1000~3000	-48.14	PASS
Band12	3MHz	QPSK	23165	15RB#0	3000~10000	-43.63	PASS
Band12	3MHz	16QAM	23165	15RB#0	0.009~0.15	-60.51	PASS
Band12	3MHz	16QAM	23165	15RB#0	0.15~30	-52.35	PASS
Band12	3MHz	16QAM	23165	15RB#0	30~1000	-31.72	PASS
Band12	3MHz	16QAM	23165	15RB#0	1000~3000	-48.27	PASS
Band12	3MHz	16QAM	23165	15RB#0	3000~10000	-44.07	PASS
Band12	5MHz	QPSK	23035	25RB#0	0.009~0.15	-60.95	PASS
Band12	5MHz	QPSK	23035	25RB#0	0.15~30	-52.16	PASS
Band12	5MHz	QPSK	23035	25RB#0	30~1000	-25.75	PASS
Band12	5MHz	QPSK	23035	25RB#0	1000~3000	-47.96	PASS
Band12	5MHz	QPSK	23035	25RB#0	3000~10000	-44.24	PASS
Band12	5MHz	16QAM	23035	25RB#0	0.009~0.15	-59.99	PASS
Band12	5MHz	16QAM	23035	25RB#0	0.15~30	-51.16	PASS
Band12	5MHz	16QAM	23035	25RB#0	30~1000	-28.54	PASS
Band12	5MHz	16QAM	23035	25RB#0	1000~3000	-47.99	PASS
Band12	5MHz	16QAM	23035	25RB#0	3000~10000	-43.98	PASS
Band12	5MHz	QPSK	23095	25RB#0	0.009~0.15	-60.47	PASS
Band12	5MHz	QPSK	23095	25RB#0	0.15~30	-52.53	PASS
Band12	5MHz	QPSK	23095	25RB#0	30~1000	-47.28	PASS
Band12	5MHz	QPSK	23095	25RB#0	1000~3000	-48.25	PASS
Band12	5MHz	QPSK	23095	25RB#0	3000~10000	-43.86	PASS
Band12	5MHz	16QAM	23095	25RB#0	0.009~0.15	-59.94	PASS
Band12	5MHz	16QAM	23095	25RB#0	0.15~30	-54.59	PASS
Band12	5MHz	16QAM	23095	25RB#0	30~1000	-47.40	PASS
Band12	5MHz	16QAM	23095	25RB#0	1000~3000	-48.17	PASS

Band12	5MHz	16QAM	23095	25RB#0	3000~10000	-43.98	PASS
Band12	5MHz	QPSK	23155	25RB#0	0.009~0.15	-60.00	PASS
Band12	5MHz	QPSK	23155	25RB#0	0.15~30	-50.91	PASS
Band12	5MHz	QPSK	23155	25RB#0	30~1000	-30.79	PASS
Band12	5MHz	QPSK	23155	25RB#0	1000~3000	-48.24	PASS
Band12	5MHz	QPSK	23155	25RB#0	3000~10000	-43.46	PASS
Band12	5MHz	16QAM	23155	25RB#0	0.009~0.15	-60.71	PASS
Band12	5MHz	16QAM	23155	25RB#0	0.15~30	-52.54	PASS
Band12	5MHz	16QAM	23155	25RB#0	30~1000	-31.85	PASS
Band12	5MHz	16QAM	23155	25RB#0	1000~3000	-48.04	PASS
Band12	5MHz	16QAM	23155	25RB#0	3000~10000	-44.14	PASS
Band12	10MHz	QPSK	23060	50RB#0	0.009~0.15	-60.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	0.15~30	-50.59	PASS
Band12	10MHz	QPSK	23060	50RB#0	30~1000	-28.88	PASS
Band12	10MHz	QPSK	23060	50RB#0	1000~3000	-48.05	PASS
Band12	10MHz	QPSK	23060	50RB#0	3000~10000	-44.00	PASS
Band12	10MHz	16QAM	23060	50RB#0	0.009~0.15	-58.67	PASS
Band12	10MHz	16QAM	23060	50RB#0	0.15~30	-52.21	PASS
Band12	10MHz	16QAM	23060	50RB#0	30~1000	-32.12	PASS
Band12	10MHz	16QAM	23060	50RB#0	1000~3000	-48.14	PASS
Band12	10MHz	16QAM	23060	50RB#0	3000~10000	-44.30	PASS
Band12	10MHz	QPSK	23095	50RB#0	0.009~0.15	-60.18	PASS
Band12	10MHz	QPSK	23095	50RB#0	0.15~30	-51.27	PASS
Band12	10MHz	QPSK	23095	50RB#0	30~1000	-35.72	PASS
Band12	10MHz	QPSK	23095	50RB#0	1000~3000	-48.03	PASS
Band12	10MHz	QPSK	23095	50RB#0	3000~10000	-44.13	PASS
Band12	10MHz	16QAM	23095	50RB#0	0.009~0.15	-58.95	PASS
Band12	10MHz	16QAM	23095	50RB#0	0.15~30	-53.00	PASS
Band12	10MHz	16QAM	23095	50RB#0	30~1000	-36.10	PASS
Band12	10MHz	16QAM	23095	50RB#0	1000~3000	-48.16	PASS
Band12	10MHz	16QAM	23095	50RB#0	3000~10000	-44.20	PASS
Band12	10MHz	QPSK	23130	50RB#0	0.009~0.15	-61.01	PASS
Band12	10MHz	QPSK	23130	50RB#0	0.15~30	-52.13	PASS
Band12	10MHz	QPSK	23130	50RB#0	30~1000	-33.95	PASS
Band12	10MHz	QPSK	23130	50RB#0	1000~3000	-47.98	PASS
Band12	10MHz	QPSK	23130	50RB#0	3000~10000	-44.15	PASS
Band12	10MHz	16QAM	23130	50RB#0	0.009~0.15	-60.61	PASS
Band12	10MHz	16QAM	23130	50RB#0	0.15~30	-51.48	PASS
Band12	10MHz	16QAM	23130	50RB#0	30~1000	-34.64	PASS
Band12	10MHz	16QAM	23130	50RB#0	1000~3000	-48.21	PASS
Band12	10MHz	16QAM	23130	50RB#0	3000~10000	-44.17	PASS

Test Graphs

