

Appendix for LTE Band 12

Product Name: Smart Phone
Model No: G96

Appendix A: Average Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	21.41	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	21.66	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	21.73	PASS
Band12	1.4MHz	QPSK	23017	3RB#0	21.63	PASS
Band12	1.4MHz	QPSK	23017	3RB#1	21.73	PASS
Band12	1.4MHz	QPSK	23017	3RB#3	21.76	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	20.67	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	20.64	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	20.98	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	20.96	PASS
Band12	1.4MHz	16QAM	23017	3RB#0	20.56	PASS
Band12	1.4MHz	16QAM	23017	3RB#1	20.88	PASS
Band12	1.4MHz	16QAM	23017	3RB#3	20.69	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	19.87	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	21.79	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	21.90	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	21.84	PASS
Band12	1.4MHz	QPSK	23095	3RB#0	21.96	PASS
Band12	1.4MHz	QPSK	23095	3RB#1	22.01	PASS
Band12	1.4MHz	QPSK	23095	3RB#3	21.99	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	20.96	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	20.97	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	21.38	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	21.05	PASS
Band12	1.4MHz	16QAM	23095	3RB#0	20.91	PASS
Band12	1.4MHz	16QAM	23095	3RB#1	21.02	PASS
Band12	1.4MHz	16QAM	23095	3RB#3	20.92	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	19.93	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	21.74	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	21.89	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	21.67	PASS
Band12	1.4MHz	QPSK	23173	3RB#0	21.93	PASS
Band12	1.4MHz	QPSK	23173	3RB#1	21.97	PASS
Band12	1.4MHz	QPSK	23173	3RB#3	21.91	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	20.93	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	20.87	PASS

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Band12	1.4MHz	16QAM	23173	1RB#2	21.14	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	20.90	PASS
Band12	1.4MHz	16QAM	23173	3RB#0	20.82	PASS
Band12	1.4MHz	16QAM	23173	3RB#1	21.08	PASS
Band12	1.4MHz	16QAM	23173	3RB#3	20.76	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	20.01	PASS
Band12	3MHz	QPSK	23025	1RB#0	21.27	PASS
Band12	3MHz	QPSK	23025	1RB#8	21.78	PASS
Band12	3MHz	QPSK	23025	1RB#14	21.69	PASS
Band12	3MHz	QPSK	23025	8RB#0	20.65	PASS
Band12	3MHz	QPSK	23025	8RB#4	20.83	PASS
Band12	3MHz	QPSK	23025	8RB#7	20.85	PASS
Band12	3MHz	QPSK	23025	15RB#0	20.78	PASS
Band12	3MHz	16QAM	23025	1RB#0	20.24	PASS
Band12	3MHz	16QAM	23025	1RB#8	21.13	PASS
Band12	3MHz	16QAM	23025	1RB#14	20.49	PASS
Band12	3MHz	16QAM	23025	8RB#0	19.76	PASS
Band12	3MHz	16QAM	23025	8RB#4	19.95	PASS
Band12	3MHz	16QAM	23025	8RB#7	20.03	PASS
Band12	3MHz	16QAM	23025	15RB#0	19.81	PASS
Band12	3MHz	QPSK	23095	1RB#0	21.71	PASS
Band12	3MHz	QPSK	23095	1RB#8	21.79	PASS
Band12	3MHz	QPSK	23095	1RB#14	21.73	PASS
Band12	3MHz	QPSK	23095	8RB#0	20.87	PASS
Band12	3MHz	QPSK	23095	8RB#4	20.98	PASS
Band12	3MHz	QPSK	23095	8RB#7	20.93	PASS
Band12	3MHz	QPSK	23095	15RB#0	20.96	PASS
Band12	3MHz	16QAM	23095	1RB#0	20.49	PASS
Band12	3MHz	16QAM	23095	1RB#8	21.13	PASS
Band12	3MHz	16QAM	23095	1RB#14	20.47	PASS
Band12	3MHz	16QAM	23095	8RB#0	19.95	PASS
Band12	3MHz	16QAM	23095	8RB#4	20.00	PASS
Band12	3MHz	16QAM	23095	8RB#7	19.91	PASS
Band12	3MHz	16QAM	23095	15RB#0	19.91	PASS
Band12	3MHz	QPSK	23165	1RB#0	21.73	PASS
Band12	3MHz	QPSK	23165	1RB#8	21.75	PASS
Band12	3MHz	QPSK	23165	1RB#14	21.69	PASS
Band12	3MHz	QPSK	23165	8RB#0	20.99	PASS
Band12	3MHz	QPSK	23165	8RB#4	20.97	PASS
Band12	3MHz	QPSK	23165	8RB#7	20.93	PASS
Band12	3MHz	QPSK	23165	15RB#0	20.94	PASS

Band12	3MHz	16QAM	23165	1RB#0	20.47	PASS
Band12	3MHz	16QAM	23165	1RB#8	21.14	PASS
Band12	3MHz	16QAM	23165	1RB#14	20.45	PASS
Band12	3MHz	16QAM	23165	8RB#0	19.94	PASS
Band12	3MHz	16QAM	23165	8RB#4	20.01	PASS
Band12	3MHz	16QAM	23165	8RB#7	20.02	PASS
Band12	3MHz	16QAM	23165	15RB#0	19.91	PASS
Band12	5MHz	QPSK	23035	1RB#0	21.67	PASS
Band12	5MHz	QPSK	23035	1RB#12	21.98	PASS
Band12	5MHz	QPSK	23035	1RB#24	21.98	PASS
Band12	5MHz	QPSK	23035	12RB#0	20.79	PASS
Band12	5MHz	QPSK	23035	12RB#6	20.93	PASS
Band12	5MHz	QPSK	23035	12RB#13	21.00	PASS
Band12	5MHz	QPSK	23035	25RB#0	20.88	PASS
Band12	5MHz	16QAM	23035	1RB#0	20.66	PASS
Band12	5MHz	16QAM	23035	1RB#12	21.37	PASS
Band12	5MHz	16QAM	23035	1RB#24	21.06	PASS
Band12	5MHz	16QAM	23035	12RB#0	19.88	PASS
Band12	5MHz	16QAM	23035	12RB#6	20.18	PASS
Band12	5MHz	16QAM	23035	12RB#13	20.11	PASS
Band12	5MHz	16QAM	23035	25RB#0	20.07	PASS
Band12	5MHz	QPSK	23095	1RB#0	22.05	PASS
Band12	5MHz	QPSK	23095	1RB#12	21.99	PASS
Band12	5MHz	QPSK	23095	1RB#24	21.92	PASS
Band12	5MHz	QPSK	23095	12RB#0	20.99	PASS
Band12	5MHz	QPSK	23095	12RB#6	21.05	PASS
Band12	5MHz	QPSK	23095	12RB#13	20.92	PASS
Band12	5MHz	QPSK	23095	25RB#0	20.98	PASS
Band12	5MHz	16QAM	23095	1RB#0	21.26	PASS
Band12	5MHz	16QAM	23095	1RB#12	21.36	PASS
Band12	5MHz	16QAM	23095	1RB#24	21.22	PASS
Band12	5MHz	16QAM	23095	12RB#0	20.14	PASS
Band12	5MHz	16QAM	23095	12RB#6	20.20	PASS
Band12	5MHz	16QAM	23095	12RB#13	20.08	PASS
Band12	5MHz	16QAM	23095	25RB#0	20.13	PASS
Band12	5MHz	QPSK	23155	1RB#0	21.98	PASS
Band12	5MHz	QPSK	23155	1RB#12	21.95	PASS
Band12	5MHz	QPSK	23155	1RB#24	21.95	PASS
Band12	5MHz	QPSK	23155	12RB#0	20.97	PASS
Band12	5MHz	QPSK	23155	12RB#6	20.98	PASS
Band12	5MHz	QPSK	23155	12RB#13	20.94	PASS

Band12	5MHz	QPSK	23155	25RB#0	20.99	PASS
Band12	5MHz	16QAM	23155	1RB#0	20.98	PASS
Band12	5MHz	16QAM	23155	1RB#12	21.33	PASS
Band12	5MHz	16QAM	23155	1RB#24	20.95	PASS
Band12	5MHz	16QAM	23155	12RB#0	19.98	PASS
Band12	5MHz	16QAM	23155	12RB#6	20.15	PASS
Band12	5MHz	16QAM	23155	12RB#13	19.96	PASS
Band12	5MHz	16QAM	23155	25RB#0	20.02	PASS
Band12	10MHz	QPSK	23060	1RB#0	21.73	PASS
Band12	10MHz	QPSK	23060	1RB#24	22.05	PASS
Band12	10MHz	QPSK	23060	1RB#49	21.97	PASS
Band12	10MHz	QPSK	23060	25RB#0	20.83	PASS
Band12	10MHz	QPSK	23060	25RB#12	20.97	PASS
Band12	10MHz	QPSK	23060	25RB#25	20.98	PASS
Band12	10MHz	QPSK	23060	50RB#0	20.92	PASS
Band12	10MHz	16QAM	23060	1RB#0	20.68	PASS
Band12	10MHz	16QAM	23060	1RB#24	21.37	PASS
Band12	10MHz	16QAM	23060	1RB#49	20.98	PASS
Band12	10MHz	16QAM	23060	25RB#0	19.94	PASS
Band12	10MHz	16QAM	23060	25RB#12	20.13	PASS
Band12	10MHz	16QAM	23060	25RB#25	20.07	PASS
Band12	10MHz	16QAM	23060	50RB#0	20.02	PASS
Band12	10MHz	QPSK	23095	1RB#0	22.01	PASS
Band12	10MHz	QPSK	23095	1RB#24	22.06	PASS
Band12	10MHz	QPSK	23095	1RB#49	22.01	PASS
Band12	10MHz	QPSK	23095	25RB#0	20.98	PASS
Band12	10MHz	QPSK	23095	25RB#12	21.02	PASS
Band12	10MHz	QPSK	23095	25RB#25	21.01	PASS
Band12	10MHz	QPSK	23095	50RB#0	21.03	PASS
Band12	10MHz	16QAM	23095	1RB#0	20.90	PASS
Band12	10MHz	16QAM	23095	1RB#24	21.55	PASS
Band12	10MHz	16QAM	23095	1RB#49	20.90	PASS
Band12	10MHz	16QAM	23095	25RB#0	20.11	PASS
Band12	10MHz	16QAM	23095	25RB#12	20.25	PASS
Band12	10MHz	16QAM	23095	25RB#25	20.08	PASS
Band12	10MHz	16QAM	23095	50RB#0	20.11	PASS
Band12	10MHz	QPSK	23130	1RB#0	22.03	PASS
Band12	10MHz	QPSK	23130	1RB#24	21.97	PASS
Band12	10MHz	QPSK	23130	1RB#49	22.03	PASS
Band12	10MHz	QPSK	23130	25RB#0	20.96	PASS
Band12	10MHz	QPSK	23130	25RB#12	21.00	PASS

Band12	10MHz	QPSK	23130	25RB#25	20.91	PASS
Band12	10MHz	QPSK	23130	50RB#0	21.00	PASS
Band12	10MHz	16QAM	23130	1RB#0	20.82	PASS
Band12	10MHz	16QAM	23130	1RB#24	21.38	PASS
Band12	10MHz	16QAM	23130	1RB#49	20.74	PASS
Band12	10MHz	16QAM	23130	25RB#0	20.01	PASS
Band12	10MHz	16QAM	23130	25RB#12	20.10	PASS
Band12	10MHz	16QAM	23130	25RB#25	20.03	PASS
Band12	10MHz	16QAM	23130	50RB#0	20.02	PASS

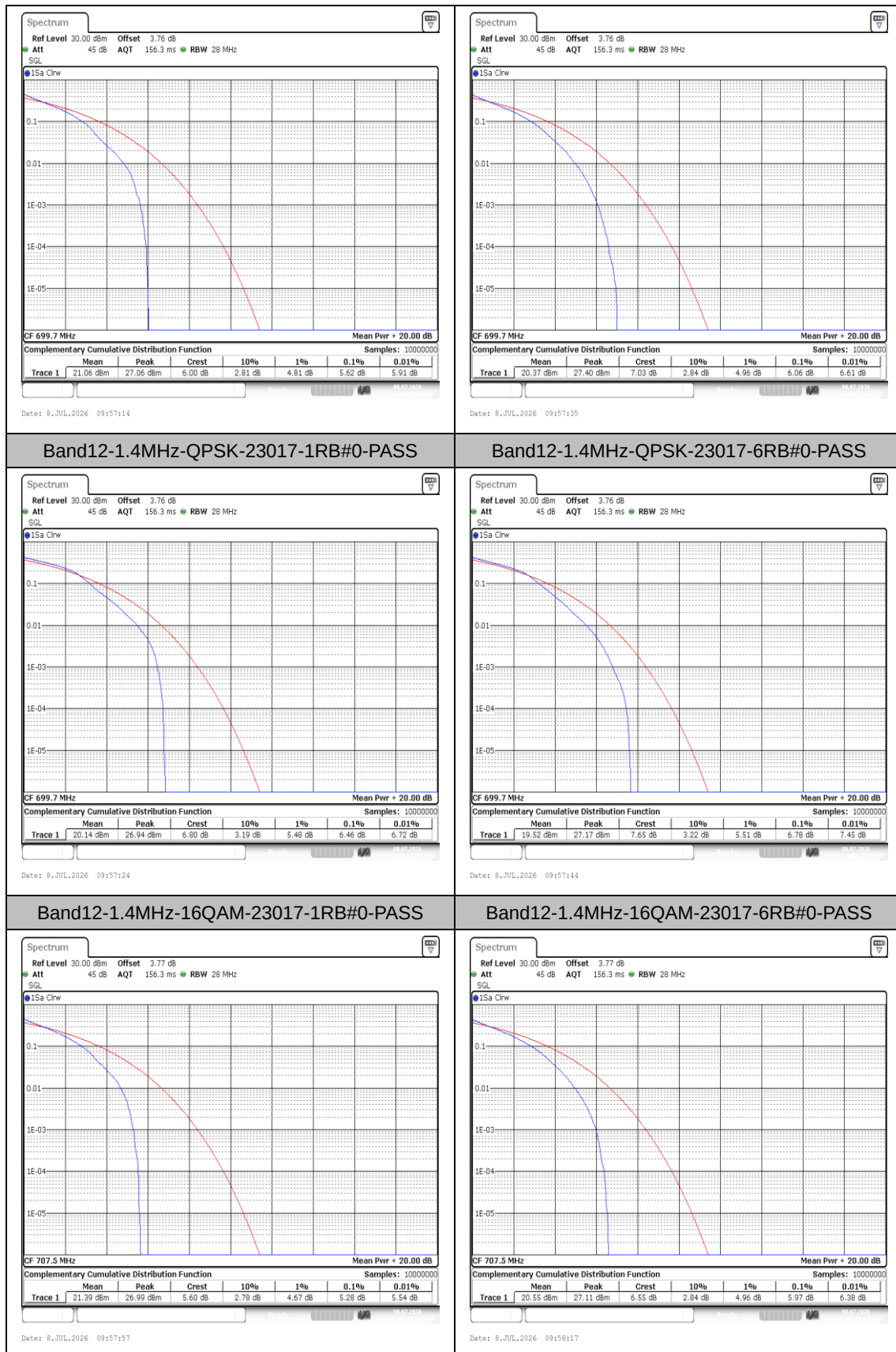
Appendix B: Peak-to-Average Ratio(CCDF)

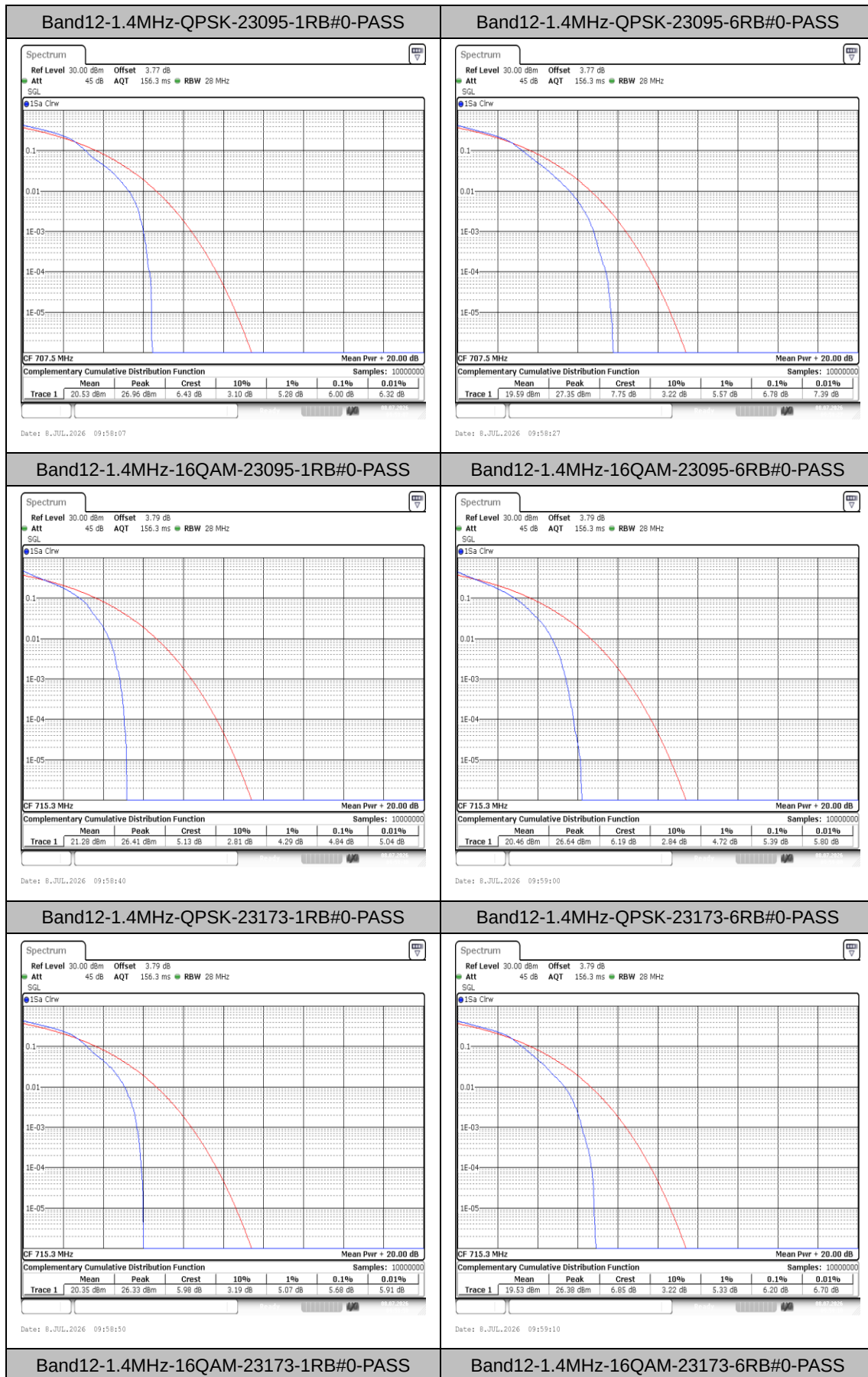
Test Result

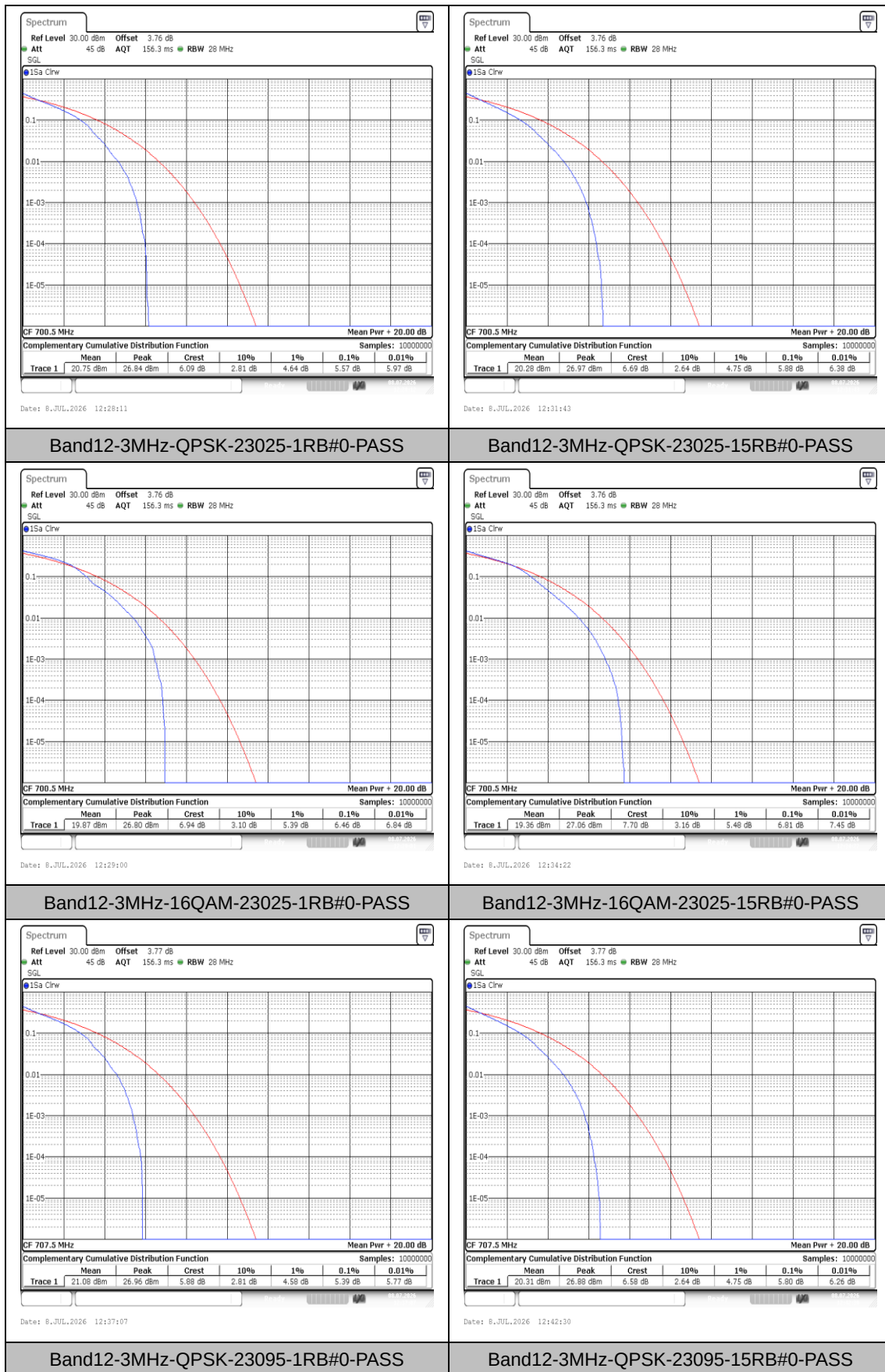
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	5.62	13	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	6.06	13	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	6.46	13	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	6.78	13	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	5.28	13	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	5.97	13	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	6.00	13	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	6.78	13	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	4.84	13	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	5.39	13	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	5.68	13	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	6.20	13	PASS
Band12	3MHz	QPSK	23025	1RB#0	5.57	13	PASS
Band12	3MHz	QPSK	23025	15RB#0	5.88	13	PASS
Band12	3MHz	16QAM	23025	1RB#0	6.46	13	PASS
Band12	3MHz	16QAM	23025	15RB#0	6.81	13	PASS
Band12	3MHz	QPSK	23095	1RB#0	5.39	13	PASS
Band12	3MHz	QPSK	23095	15RB#0	5.80	13	PASS
Band12	3MHz	16QAM	23095	1RB#0	6.49	13	PASS
Band12	3MHz	16QAM	23095	15RB#0	6.75	13	PASS
Band12	3MHz	QPSK	23165	1RB#0	4.81	13	PASS
Band12	3MHz	QPSK	23165	15RB#0	5.45	13	PASS
Band12	3MHz	16QAM	23165	1RB#0	5.91	13	PASS
Band12	3MHz	16QAM	23165	15RB#0	6.35	13	PASS
Band12	5MHz	QPSK	23035	1RB#0	5.57	13	PASS
Band12	5MHz	QPSK	23035	25RB#0	6.00	13	PASS
Band12	5MHz	16QAM	23035	1RB#0	6.20	13	PASS
Band12	5MHz	16QAM	23035	25RB#0	6.72	13	PASS
Band12	5MHz	QPSK	23095	1RB#0	5.30	13	PASS
Band12	5MHz	QPSK	23095	25RB#0	5.86	13	PASS
Band12	5MHz	16QAM	23095	1RB#0	6.00	13	PASS
Band12	5MHz	16QAM	23095	25RB#0	6.67	13	PASS
Band12	5MHz	QPSK	23155	1RB#0	4.84	13	PASS
Band12	5MHz	QPSK	23155	25RB#0	5.54	13	PASS
Band12	5MHz	16QAM	23155	1RB#0	5.51	13	PASS
Band12	5MHz	16QAM	23155	25RB#0	6.32	13	PASS

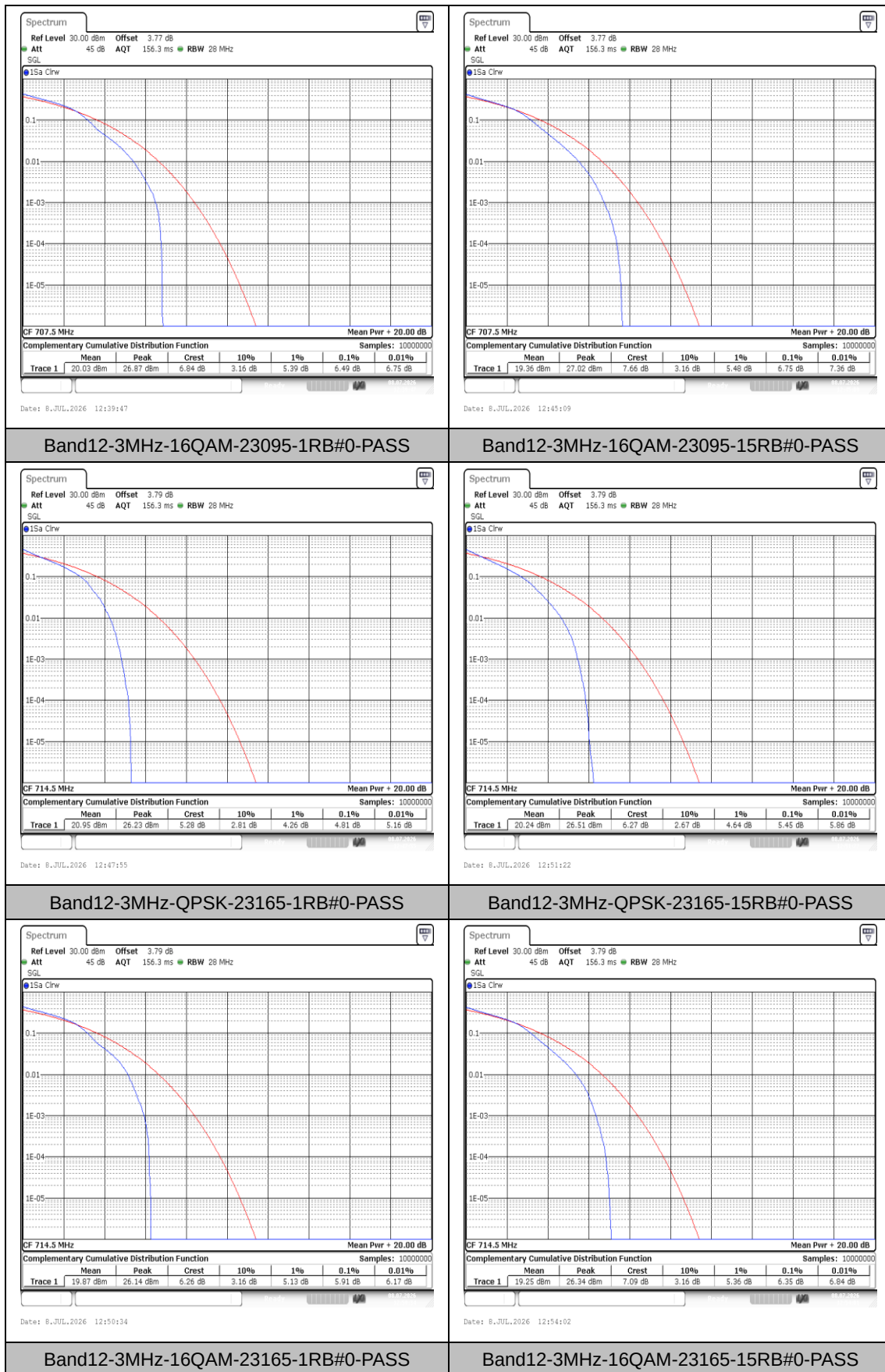
Band12	10MHz	QPSK	23060	1RB#0	5.28	13	PASS
Band12	10MHz	QPSK	23060	50RB#0	5.86	13	PASS
Band12	10MHz	16QAM	23060	1RB#0	6.17	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	6.70	13	PASS
Band12	10MHz	QPSK	23095	1RB#0	5.01	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.74	13	PASS
Band12	10MHz	16QAM	23095	1RB#0	5.91	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	6.58	13	PASS
Band12	10MHz	QPSK	23130	1RB#0	5.19	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.59	13	PASS
Band12	10MHz	16QAM	23130	1RB#0	6.09	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	6.43	13	PASS

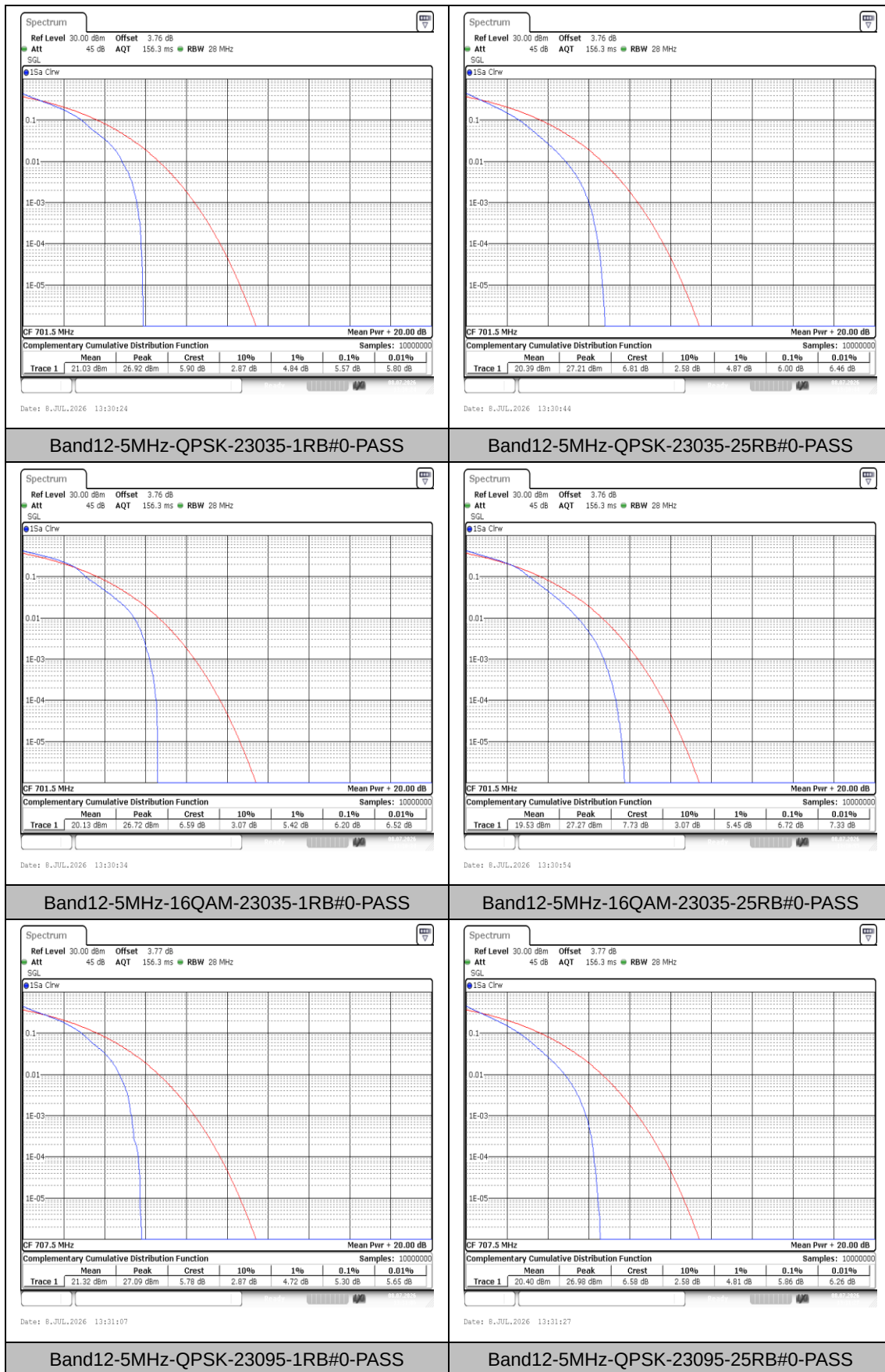
Test Graphs

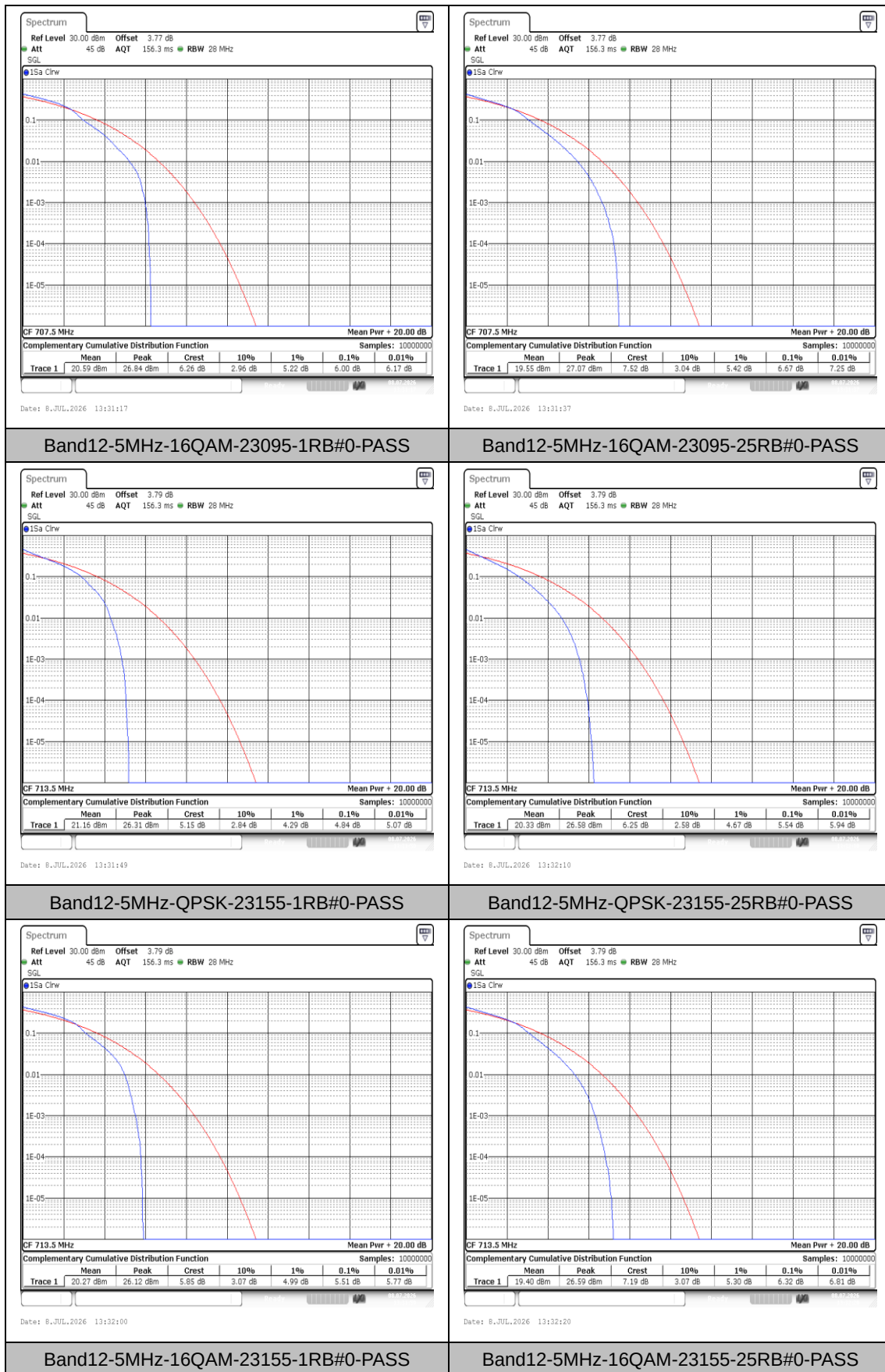


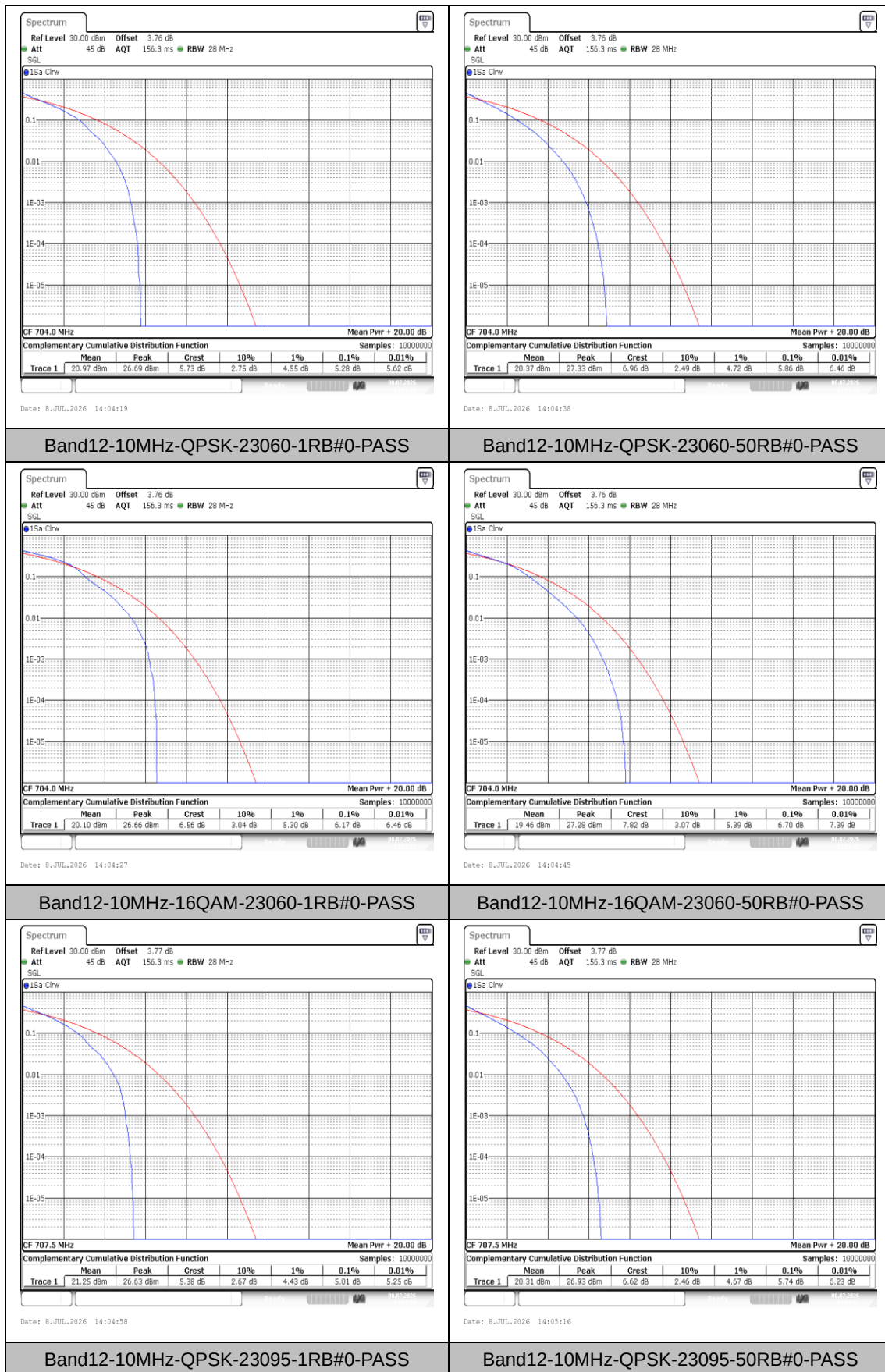


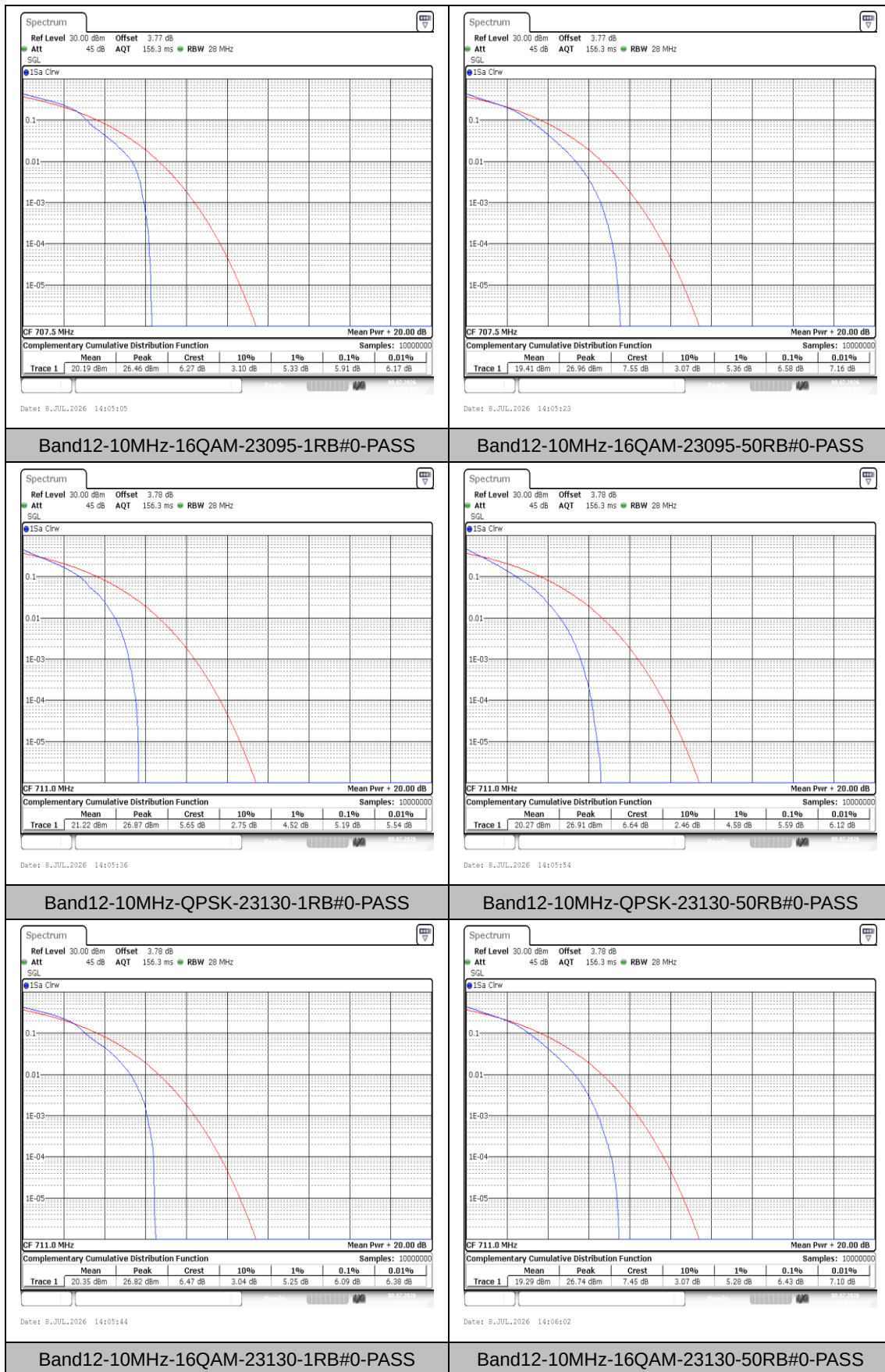










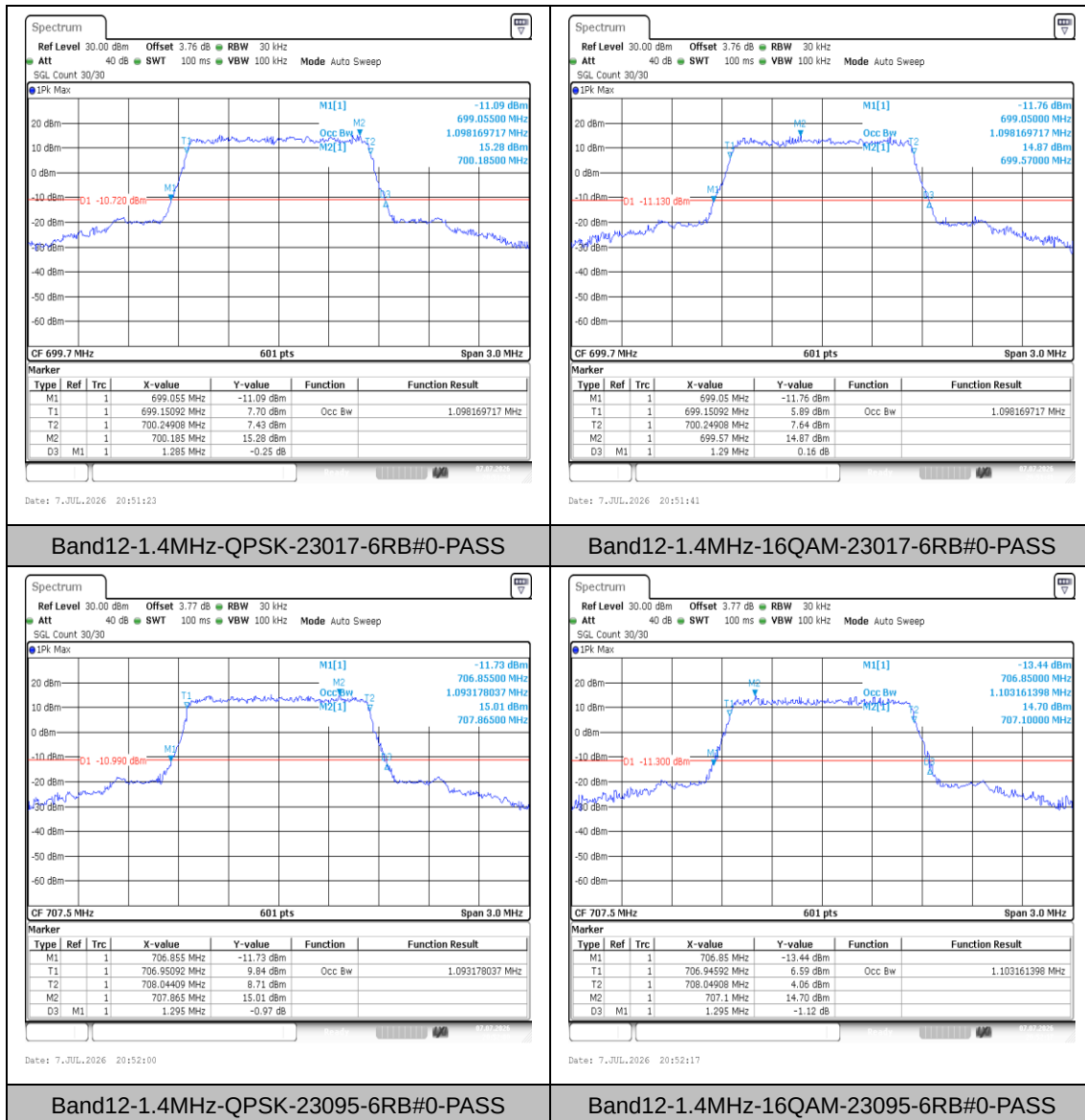


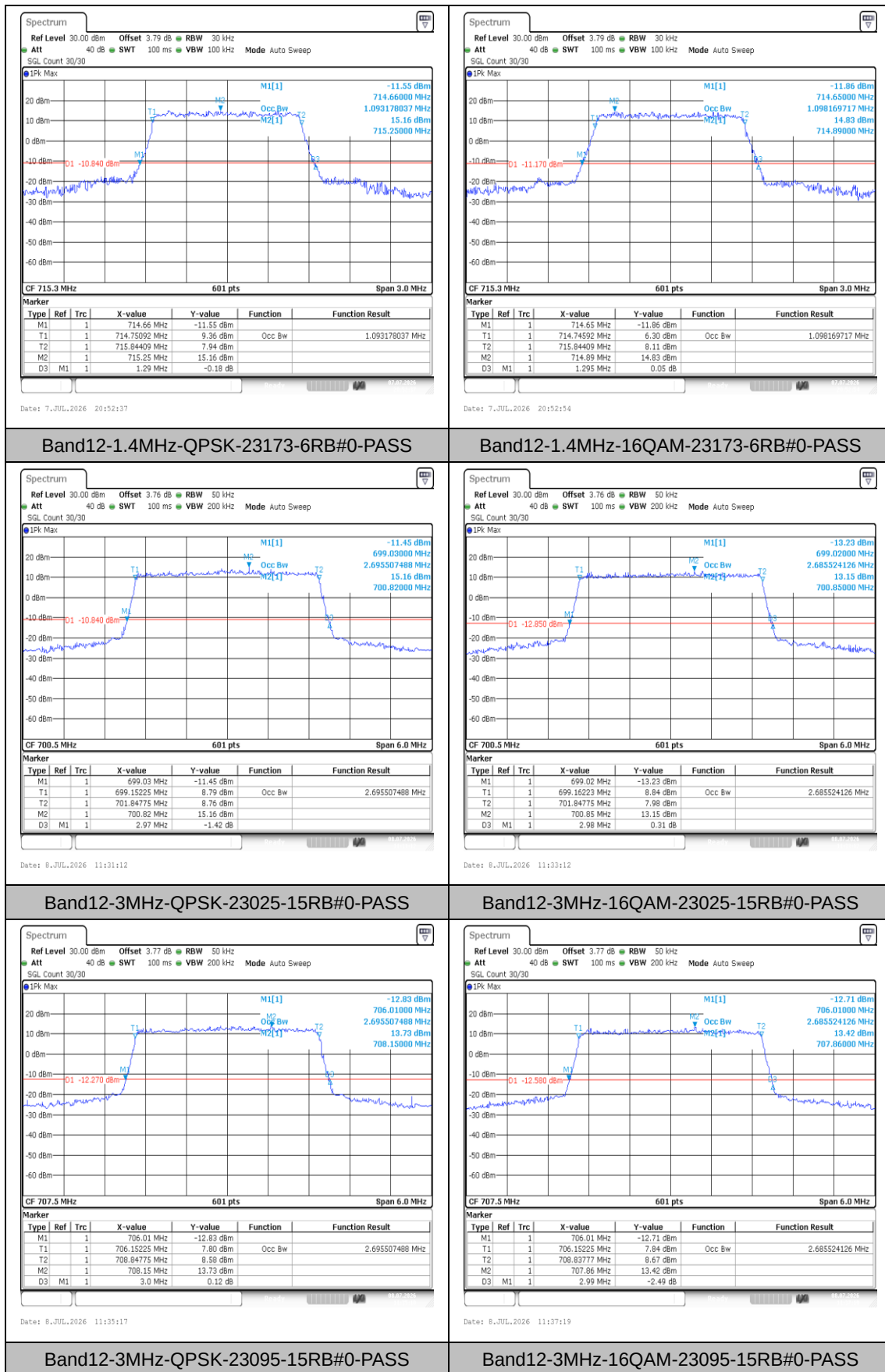
Appendix C: 26dB Bandwidth and Occupied Bandwidth

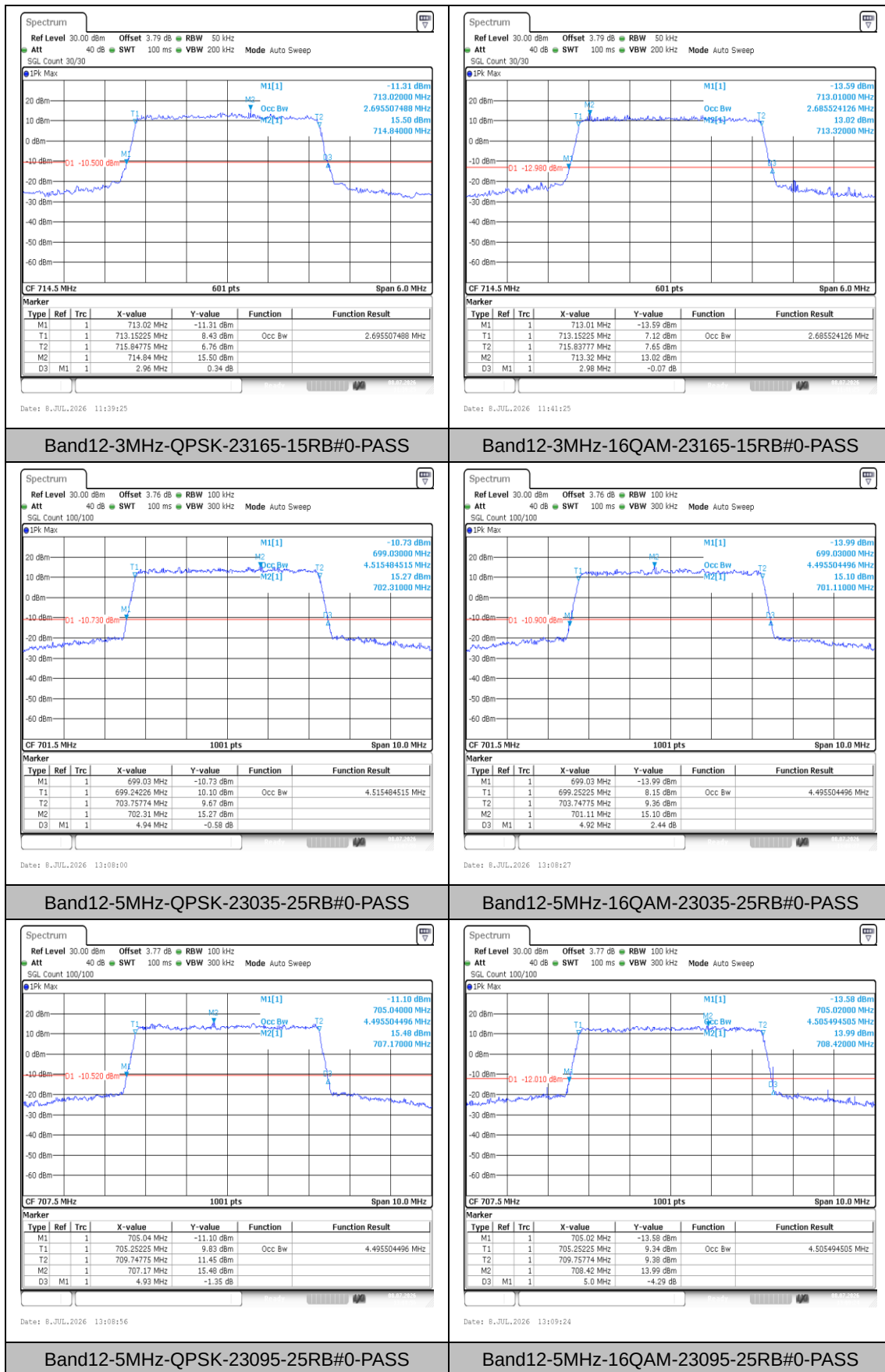
Test Result

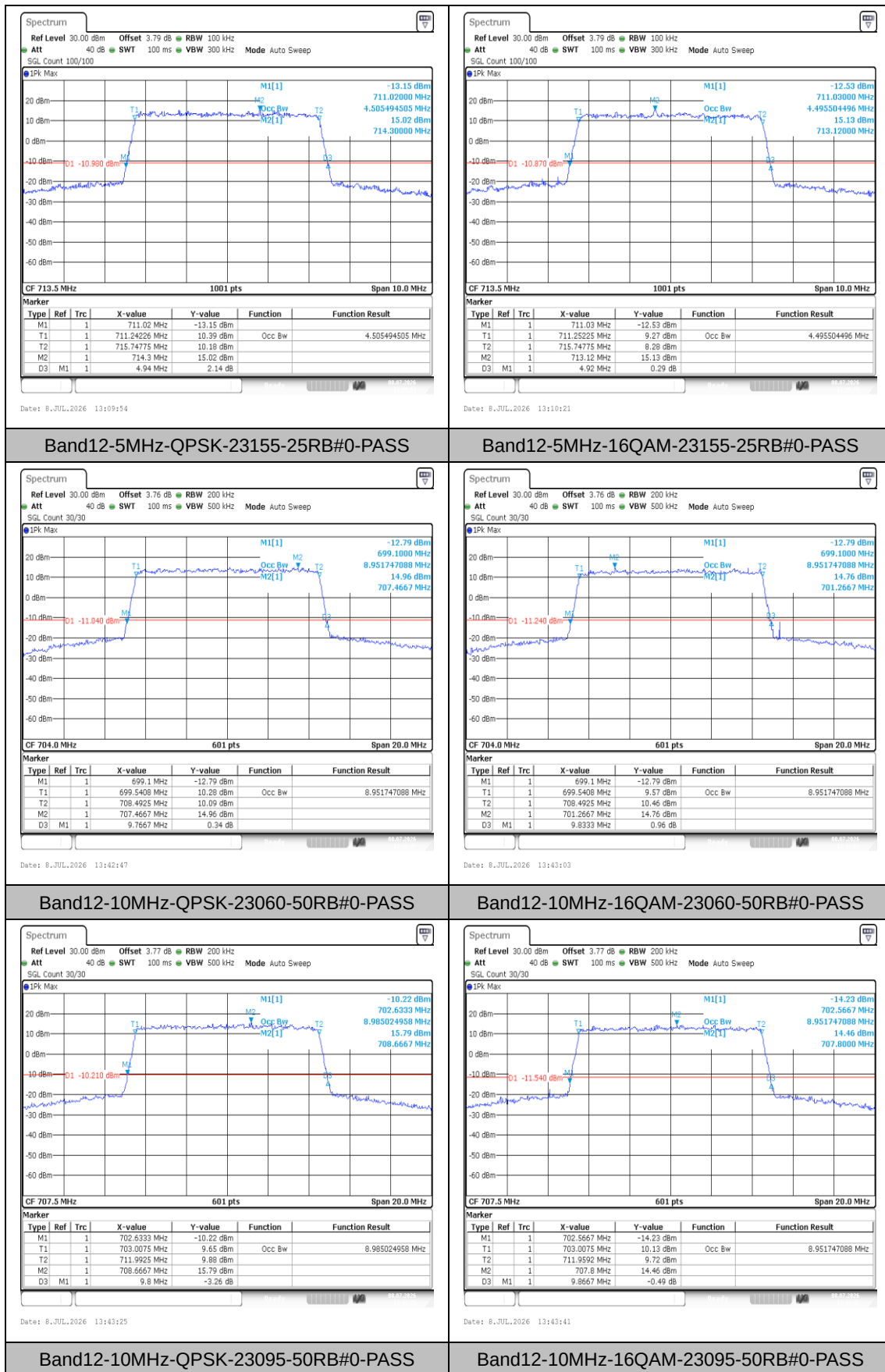
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.0982	1.29	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.0982	1.29	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.0932	1.30	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.1032	1.30	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.0932	1.29	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.0982	1.30	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.6955	2.97	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.6855	2.98	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.6955	3.00	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.6855	2.99	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.6955	2.96	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.6855	2.98	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.5155	4.94	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.4955	4.92	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.4955	4.93	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.5055	5.00	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.5055	4.94	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.4955	4.92	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.9517	9.77	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.9517	9.83	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.9850	9.80	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.9517	9.87	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.9517	9.83	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.9850	9.77	PASS

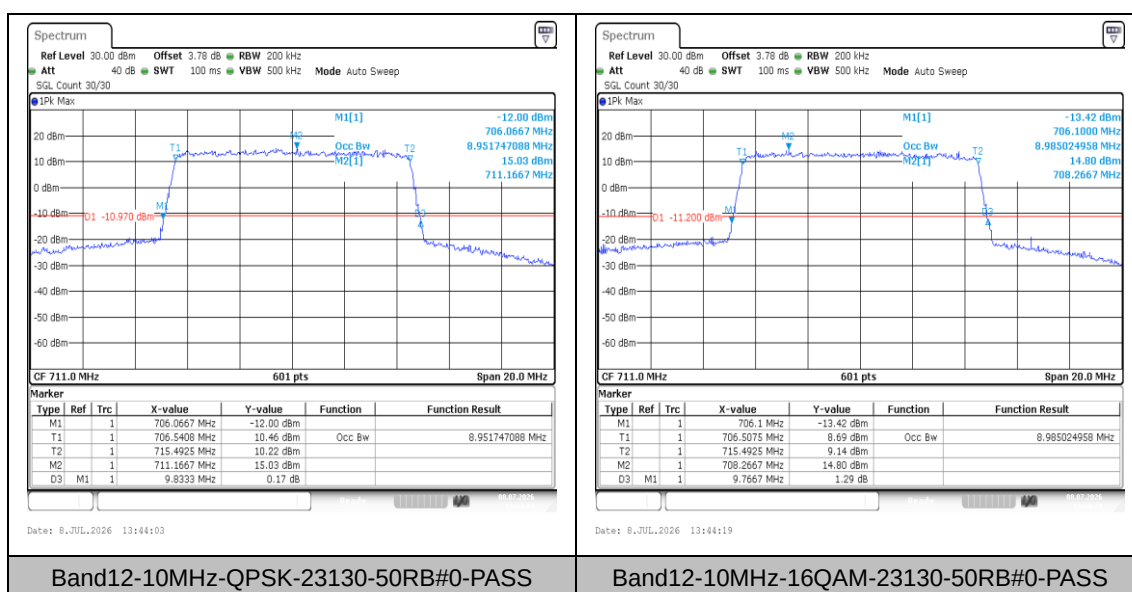
Test Graphs











Appendix D: Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	-26.79	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	-42.03	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	-23.63	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	-27.53	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	-42.55	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	-23.95	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	-41.79	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	-21.33	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	-25.07	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	-42.48	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	-23.20	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	-26.17	PASS
Band12	3MHz	QPSK	23025	1RB#0	-18.84	PASS
Band12	3MHz	QPSK	23025	1RB#14	-39.91	PASS
Band12	3MHz	QPSK	23025	15RB#0	-26.79	PASS
Band12	3MHz	16QAM	23025	1RB#0	-19.82	PASS
Band12	3MHz	16QAM	23025	1RB#14	-40.32	PASS
Band12	3MHz	16QAM	23025	15RB#0	-27.64	PASS
Band12	3MHz	QPSK	23165	1RB#0	-40.00	PASS
Band12	3MHz	QPSK	23165	1RB#14	-18.55	PASS

Band12	3MHz	QPSK	23165	15RB#0	-28.32	PASS
Band12	3MHz	16QAM	23165	1RB#0	-40.89	PASS
Band12	3MHz	16QAM	23165	1RB#14	-18.86	PASS
Band12	3MHz	16QAM	23165	15RB#0	-28.90	PASS
Band12	5MHz	QPSK	23035	1RB#0	-27.28	PASS
Band12	5MHz	QPSK	23035	1RB#24	-47.19	PASS
Band12	5MHz	QPSK	23035	25RB#0	-28.90	PASS
Band12	5MHz	16QAM	23035	1RB#0	-28.60	PASS
Band12	5MHz	16QAM	23035	1RB#24	-48.04	PASS
Band12	5MHz	16QAM	23035	25RB#0	-29.58	PASS
Band12	5MHz	QPSK	23155	1RB#0	-47.09	PASS
Band12	5MHz	QPSK	23155	1RB#24	-25.33	PASS
Band12	5MHz	QPSK	23155	25RB#0	-30.58	PASS
Band12	5MHz	16QAM	23155	1RB#0	-47.48	PASS
Band12	5MHz	16QAM	23155	1RB#24	-27.36	PASS
Band12	5MHz	16QAM	23155	25RB#0	-31.00	PASS
Band12	10MHz	QPSK	23060	1RB#0	-34.68	PASS
Band12	10MHz	QPSK	23060	1RB#49	-48.93	PASS
Band12	10MHz	QPSK	23060	50RB#0	-32.02	PASS
Band12	10MHz	16QAM	23060	1RB#0	-35.20	PASS
Band12	10MHz	16QAM	23060	1RB#49	-49.41	PASS
Band12	10MHz	16QAM	23060	50RB#0	-32.62	PASS
Band12	10MHz	QPSK	23130	1RB#0	-48.62	PASS
Band12	10MHz	QPSK	23130	1RB#49	-33.51	PASS
Band12	10MHz	QPSK	23130	50RB#0	-32.95	PASS
Band12	10MHz	16QAM	23130	1RB#0	-49.28	PASS
Band12	10MHz	16QAM	23130	1RB#49	-33.18	PASS
Band12	10MHz	16QAM	23130	50RB#0	-33.64	PASS

Test Graphs

