

Appendix for LTE Band 17

Product Name: TITAN 5400

Model No: G5G-X62O

Appendix A: Average Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	22.76	PASS
Band17	5MHz	QPSK	23755	1RB#12	22.83	PASS
Band17	5MHz	QPSK	23755	1RB#24	22.74	PASS
Band17	5MHz	QPSK	23755	12RB#0	21.87	PASS
Band17	5MHz	QPSK	23755	12RB#6	21.89	PASS
Band17	5MHz	QPSK	23755	12RB#13	21.74	PASS
Band17	5MHz	QPSK	23755	25RB#0	21.76	PASS
Band17	5MHz	16QAM	23755	1RB#0	21.78	PASS
Band17	5MHz	16QAM	23755	1RB#12	21.86	PASS
Band17	5MHz	16QAM	23755	1RB#24	21.75	PASS
Band17	5MHz	16QAM	23755	12RB#0	20.84	PASS
Band17	5MHz	16QAM	23755	12RB#6	20.86	PASS
Band17	5MHz	16QAM	23755	12RB#13	20.64	PASS
Band17	5MHz	16QAM	23755	25RB#0	20.80	PASS
Band17	5MHz	QPSK	23790	1RB#0	22.80	PASS
Band17	5MHz	QPSK	23790	1RB#12	22.77	PASS
Band17	5MHz	QPSK	23790	1RB#24	22.60	PASS
Band17	5MHz	QPSK	23790	12RB#0	21.85	PASS
Band17	5MHz	QPSK	23790	12RB#6	21.80	PASS
Band17	5MHz	QPSK	23790	12RB#13	21.81	PASS
Band17	5MHz	QPSK	23790	25RB#0	21.78	PASS
Band17	5MHz	16QAM	23790	1RB#0	21.71	PASS
Band17	5MHz	16QAM	23790	1RB#12	21.84	PASS
Band17	5MHz	16QAM	23790	1RB#24	21.54	PASS
Band17	5MHz	16QAM	23790	12RB#0	20.81	PASS
Band17	5MHz	16QAM	23790	12RB#6	20.86	PASS
Band17	5MHz	16QAM	23790	12RB#13	20.82	PASS
Band17	5MHz	16QAM	23790	25RB#0	20.76	PASS
Band17	5MHz	QPSK	23825	1RB#0	22.69	PASS
Band17	5MHz	QPSK	23825	1RB#12	22.78	PASS
Band17	5MHz	QPSK	23825	1RB#24	22.56	PASS
Band17	5MHz	QPSK	23825	12RB#0	21.65	PASS
Band17	5MHz	QPSK	23825	12RB#6	21.69	PASS
Band17	5MHz	QPSK	23825	12RB#13	21.70	PASS
Band17	5MHz	QPSK	23825	25RB#0	21.64	PASS

Band17	5MHz	16QAM	23825	1RB#0	21.70	PASS
Band17	5MHz	16QAM	23825	1RB#12	21.62	PASS
Band17	5MHz	16QAM	23825	1RB#24	21.66	PASS
Band17	5MHz	16QAM	23825	12RB#0	20.66	PASS
Band17	5MHz	16QAM	23825	12RB#6	20.66	PASS
Band17	5MHz	16QAM	23825	12RB#13	20.73	PASS
Band17	5MHz	16QAM	23825	25RB#0	20.64	PASS
Band17	10MHz	QPSK	23780	1RB#0	22.89	PASS
Band17	10MHz	QPSK	23780	1RB#24	22.88	PASS
Band17	10MHz	QPSK	23780	1RB#49	22.68	PASS
Band17	10MHz	QPSK	23780	25RB#0	21.90	PASS
Band17	10MHz	QPSK	23780	25RB#12	21.88	PASS
Band17	10MHz	QPSK	23780	25RB#25	21.80	PASS
Band17	10MHz	QPSK	23780	50RB#0	21.92	PASS
Band17	10MHz	16QAM	23780	1RB#0	21.79	PASS
Band17	10MHz	16QAM	23780	1RB#24	21.76	PASS
Band17	10MHz	16QAM	23780	1RB#49	21.72	PASS
Band17	10MHz	16QAM	23780	25RB#0	20.89	PASS
Band17	10MHz	16QAM	23780	25RB#12	20.91	PASS
Band17	10MHz	16QAM	23780	25RB#25	20.90	PASS
Band17	10MHz	16QAM	23780	50RB#0	20.90	PASS
Band17	10MHz	QPSK	23790	1RB#0	22.83	PASS
Band17	10MHz	QPSK	23790	1RB#24	22.80	PASS
Band17	10MHz	QPSK	23790	1RB#49	22.63	PASS
Band17	10MHz	QPSK	23790	25RB#0	21.84	PASS
Band17	10MHz	QPSK	23790	25RB#12	21.84	PASS
Band17	10MHz	QPSK	23790	25RB#25	21.76	PASS
Band17	10MHz	QPSK	23790	50RB#0	21.86	PASS
Band17	10MHz	16QAM	23790	1RB#0	21.79	PASS
Band17	10MHz	16QAM	23790	1RB#24	21.78	PASS
Band17	10MHz	16QAM	23790	1RB#49	21.74	PASS
Band17	10MHz	16QAM	23790	25RB#0	20.84	PASS
Band17	10MHz	16QAM	23790	25RB#12	20.80	PASS
Band17	10MHz	16QAM	23790	25RB#25	20.77	PASS
Band17	10MHz	16QAM	23790	50RB#0	20.84	PASS
Band17	10MHz	QPSK	23800	1RB#0	22.85	PASS
Band17	10MHz	QPSK	23800	1RB#24	22.79	PASS
Band17	10MHz	QPSK	23800	1RB#49	22.64	PASS
Band17	10MHz	QPSK	23800	25RB#0	21.85	PASS
Band17	10MHz	QPSK	23800	25RB#12	21.83	PASS
Band17	10MHz	QPSK	23800	25RB#25	21.76	PASS
Band17	10MHz	QPSK	23800	50RB#0	21.81	PASS

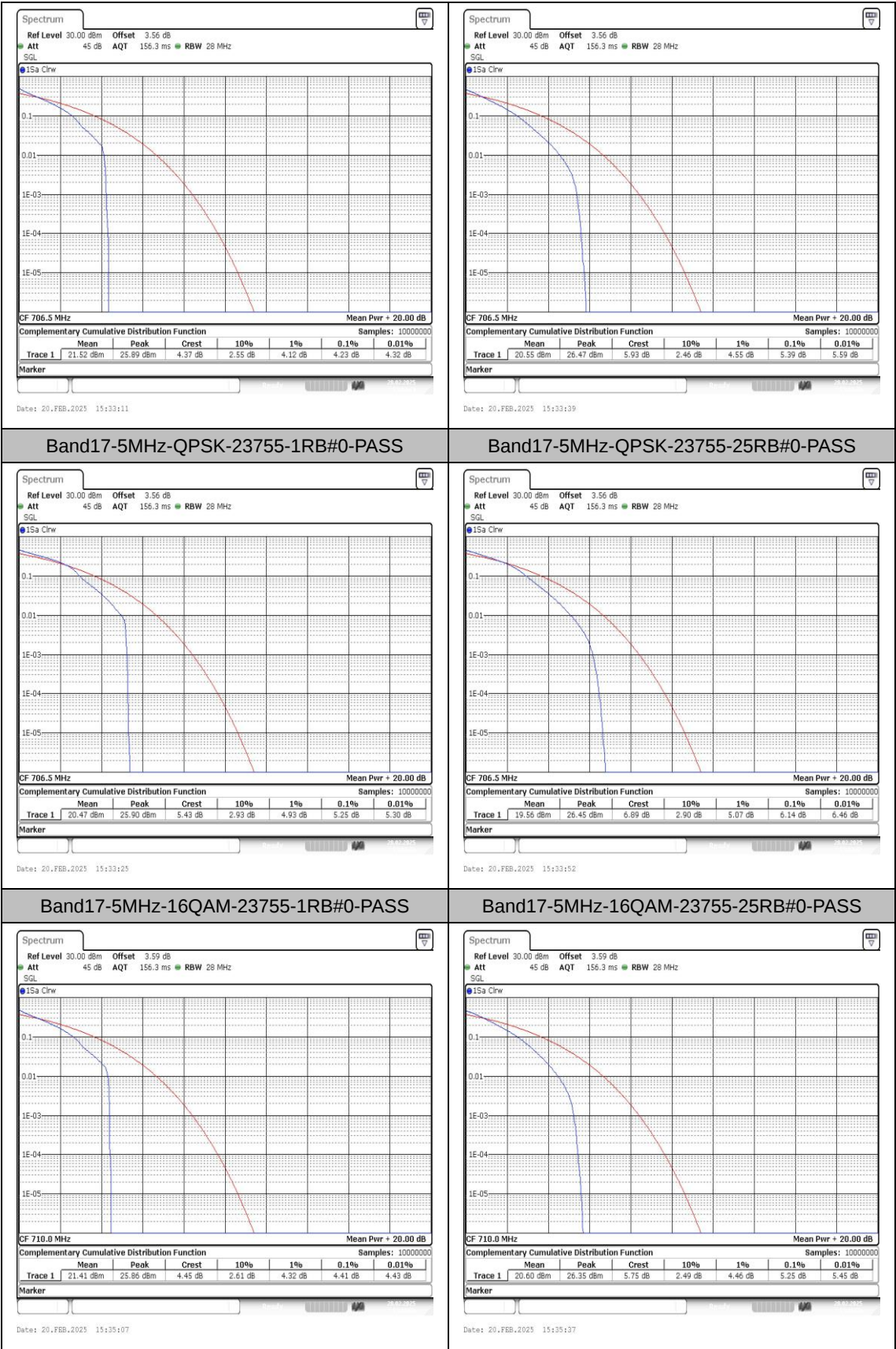
Band17	10MHz	16QAM	23800	1RB#0	21.89	PASS
Band17	10MHz	16QAM	23800	1RB#24	21.84	PASS
Band17	10MHz	16QAM	23800	1RB#49	21.71	PASS
Band17	10MHz	16QAM	23800	25RB#0	20.87	PASS
Band17	10MHz	16QAM	23800	25RB#12	20.88	PASS
Band17	10MHz	16QAM	23800	25RB#25	20.78	PASS
Band17	10MHz	16QAM	23800	50RB#0	20.87	PASS

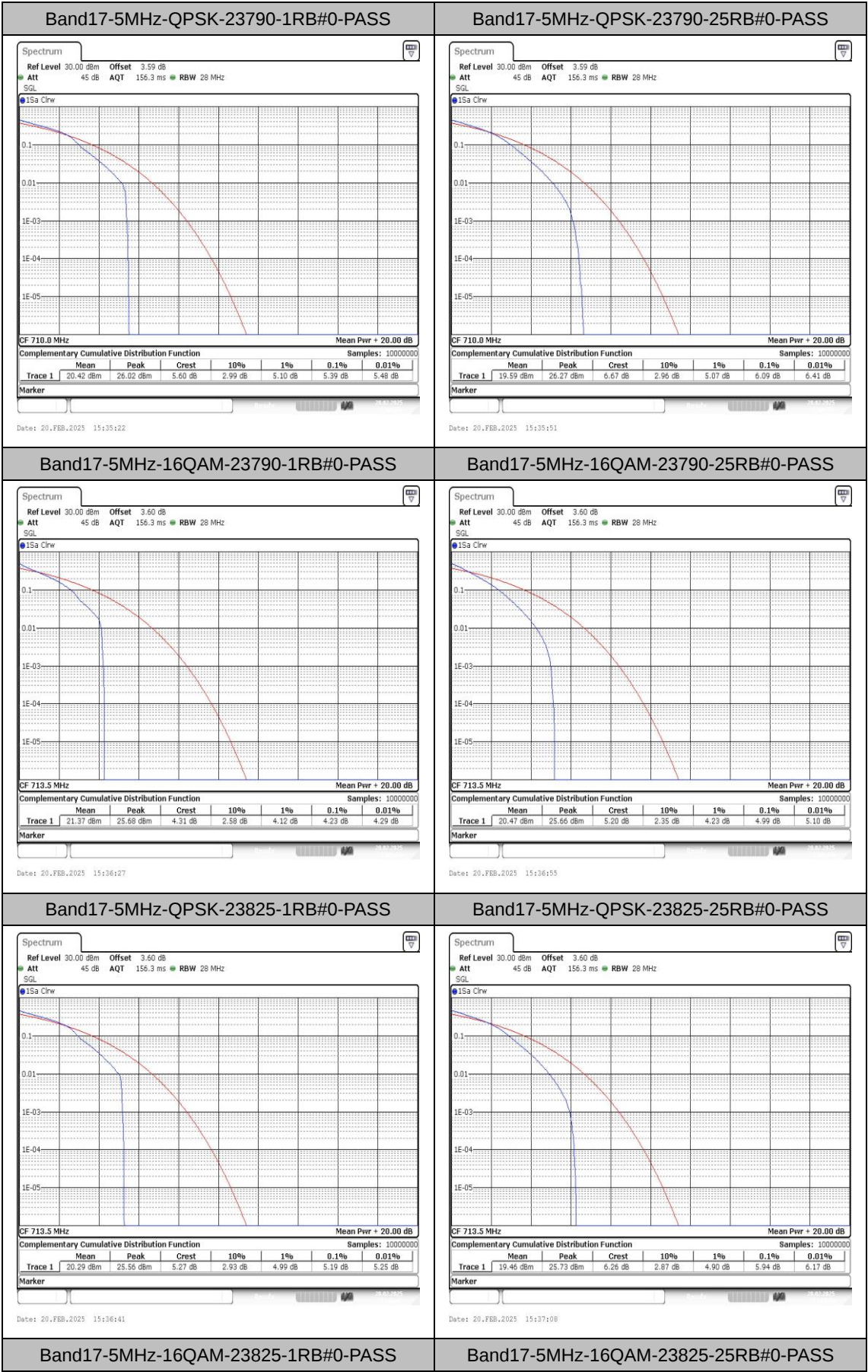
Appendix B: Peak-to-Average Ratio(CCDF)

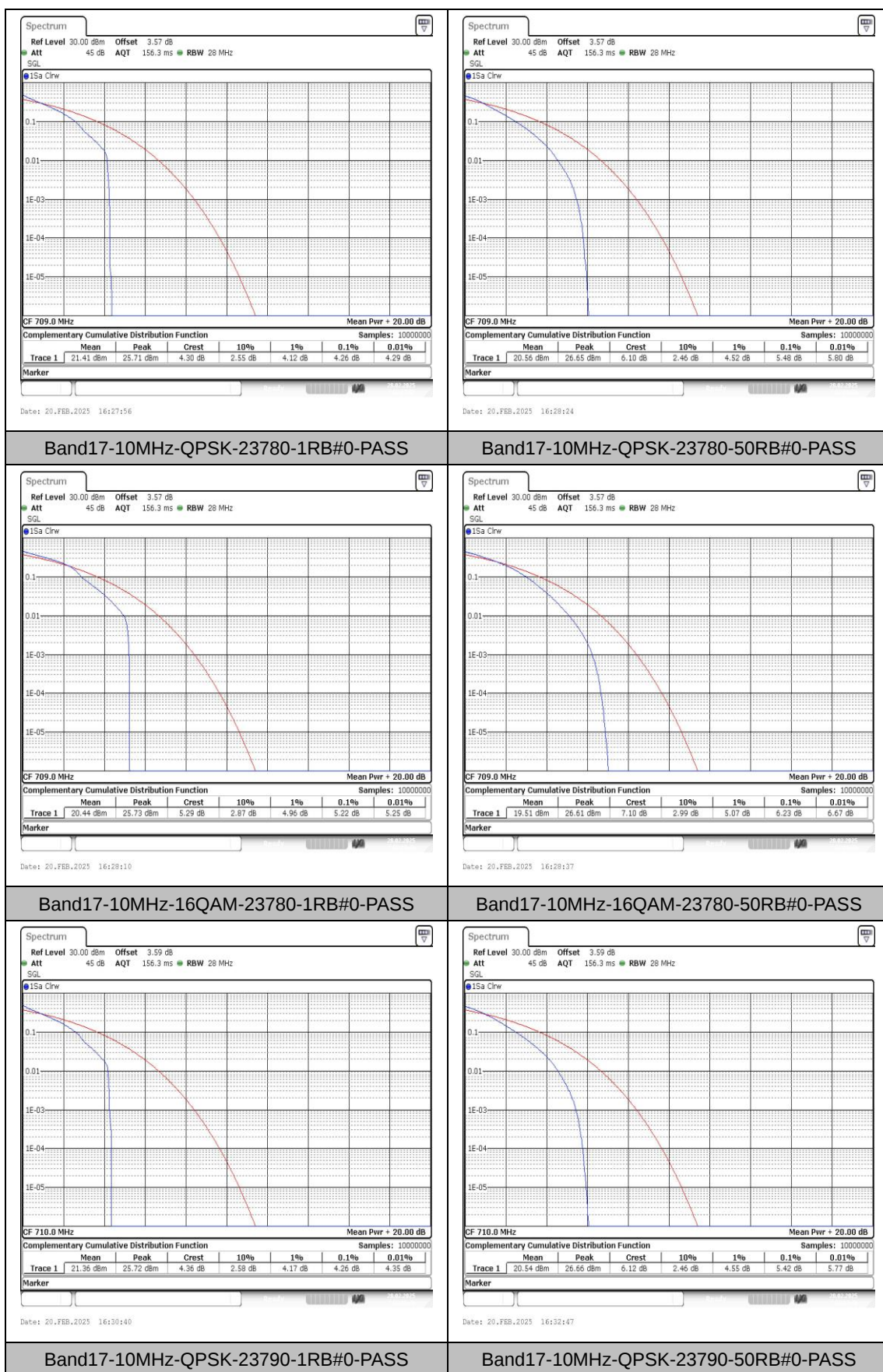
Test Result

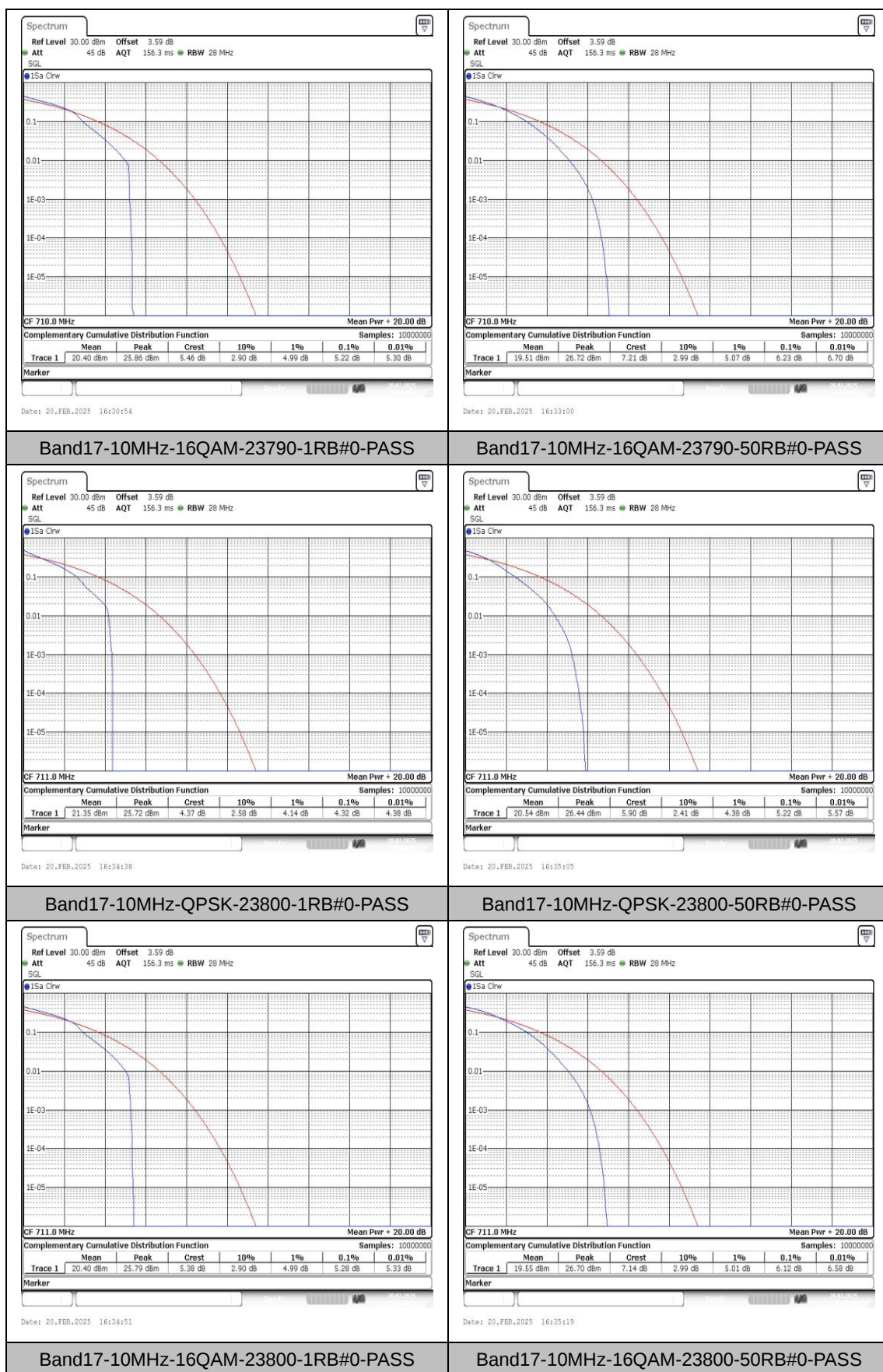
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	4.23	13	PASS
Band17	5MHz	QPSK	23755	25RB#0	5.39	13	PASS
Band17	5MHz	16QAM	23755	1RB#0	5.25	13	PASS
Band17	5MHz	16QAM	23755	25RB#0	6.14	13	PASS
Band17	5MHz	QPSK	23790	1RB#0	4.41	13	PASS
Band17	5MHz	QPSK	23790	25RB#0	5.25	13	PASS
Band17	5MHz	16QAM	23790	1RB#0	5.39	13	PASS
Band17	5MHz	16QAM	23790	25RB#0	6.09	13	PASS
Band17	5MHz	QPSK	23825	1RB#0	4.23	13	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.99	13	PASS
Band17	5MHz	16QAM	23825	1RB#0	5.19	13	PASS
Band17	5MHz	16QAM	23825	25RB#0	5.94	13	PASS
Band17	10MHz	QPSK	23780	1RB#0	4.26	13	PASS
Band17	10MHz	QPSK	23780	50RB#0	5.48	13	PASS
Band17	10MHz	16QAM	23780	1RB#0	5.22	13	PASS
Band17	10MHz	16QAM	23780	50RB#0	6.23	13	PASS
Band17	10MHz	QPSK	23790	1RB#0	4.26	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	5.42	13	PASS
Band17	10MHz	16QAM	23790	1RB#0	5.22	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	6.23	13	PASS
Band17	10MHz	QPSK	23800	1RB#0	4.32	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	5.22	13	PASS
Band17	10MHz	16QAM	23800	1RB#0	5.28	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	6.12	13	PASS

Test Graphs







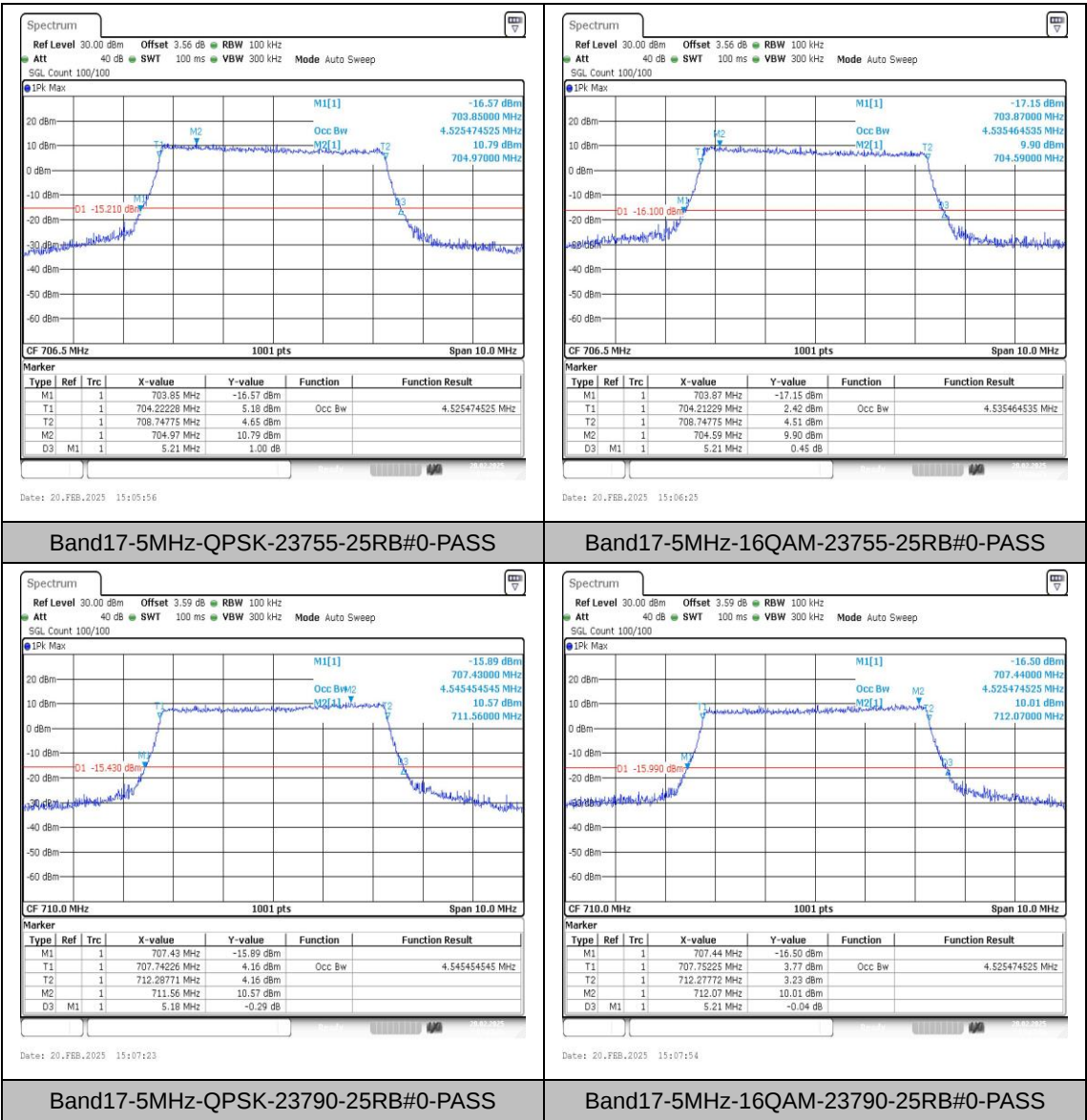


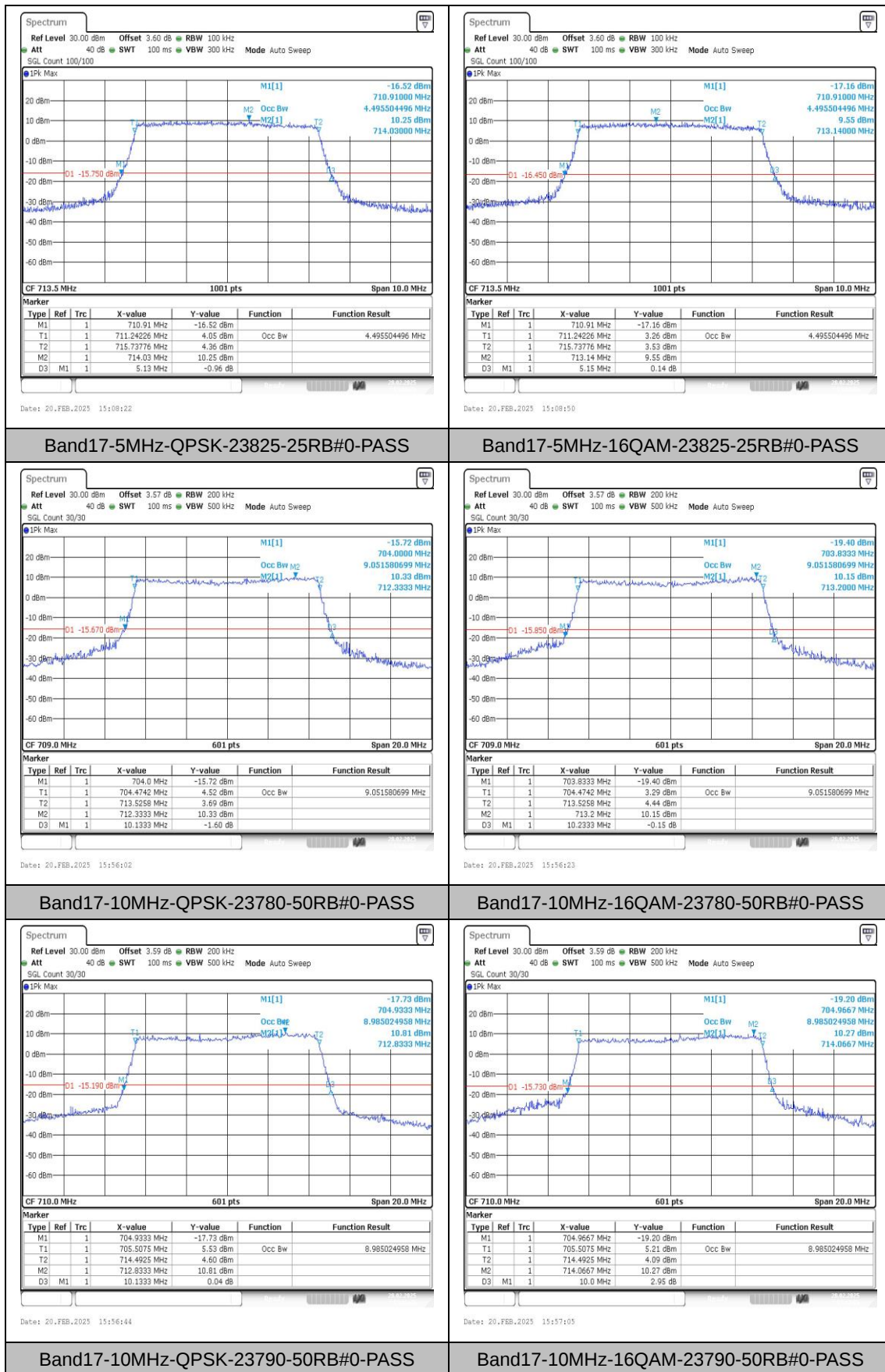
Appendix C: 26dB Bandwidth and Occupied Bandwidth

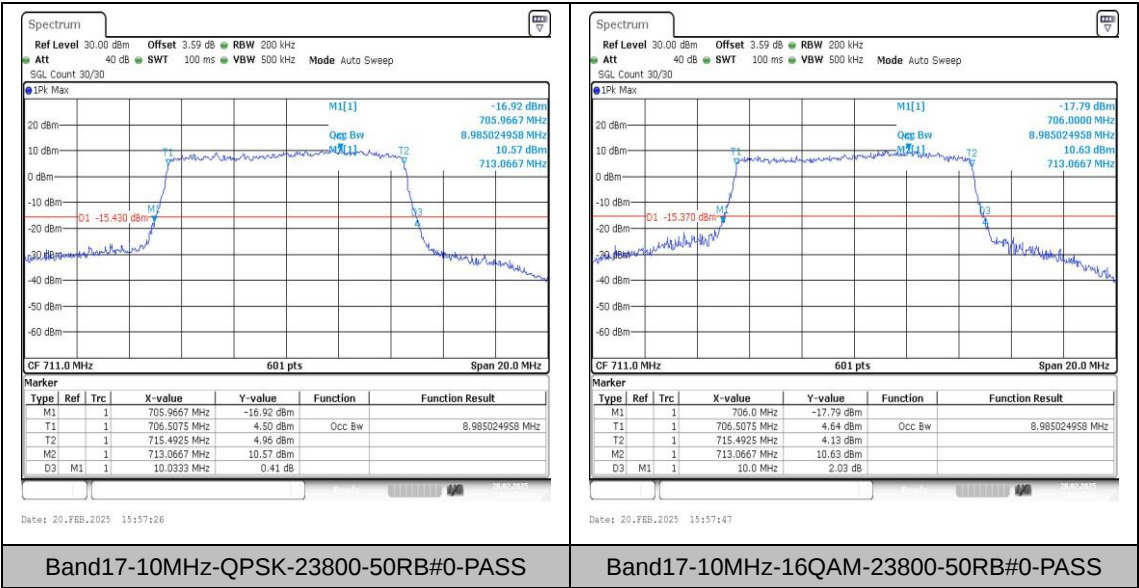
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	4.525	5.21	PASS
Band17	5MHz	16QAM	23755	25RB#0	4.535	5.21	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.545	5.18	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.525	5.21	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.496	5.13	PASS
Band17	5MHz	16QAM	23825	25RB#0	4.496	5.15	PASS
Band17	10MHz	QPSK	23780	50RB#0	9.052	10.13	PASS
Band17	10MHz	16QAM	23780	50RB#0	9.052	10.23	PASS
Band17	10MHz	QPSK	23790	50RB#0	8.985	10.13	PASS
Band17	10MHz	16QAM	23790	50RB#0	8.985	10.00	PASS
Band17	10MHz	QPSK	23800	50RB#0	8.985	10.03	PASS
Band17	10MHz	16QAM	23800	50RB#0	8.985	10.00	PASS

Test Graphs





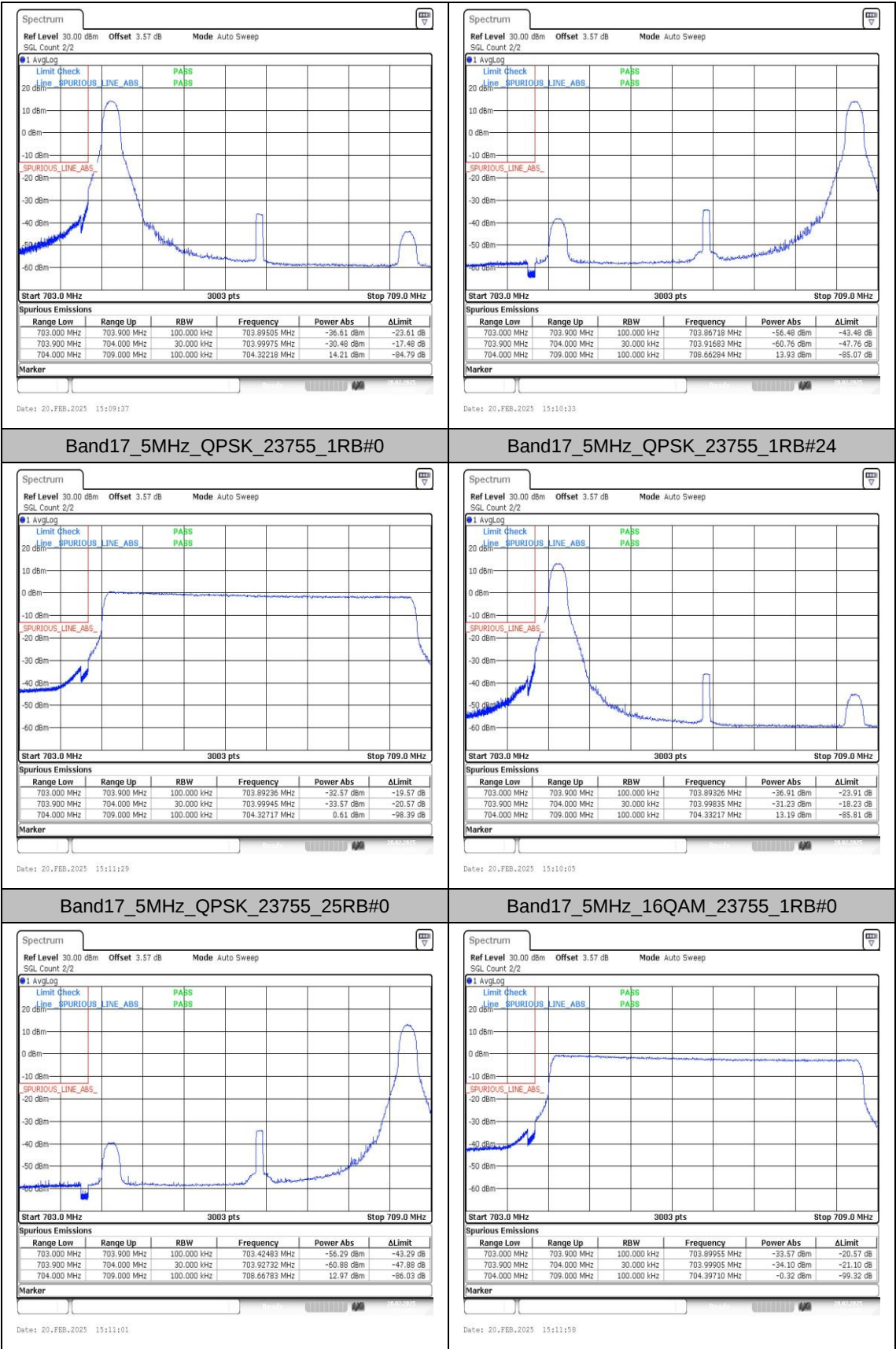


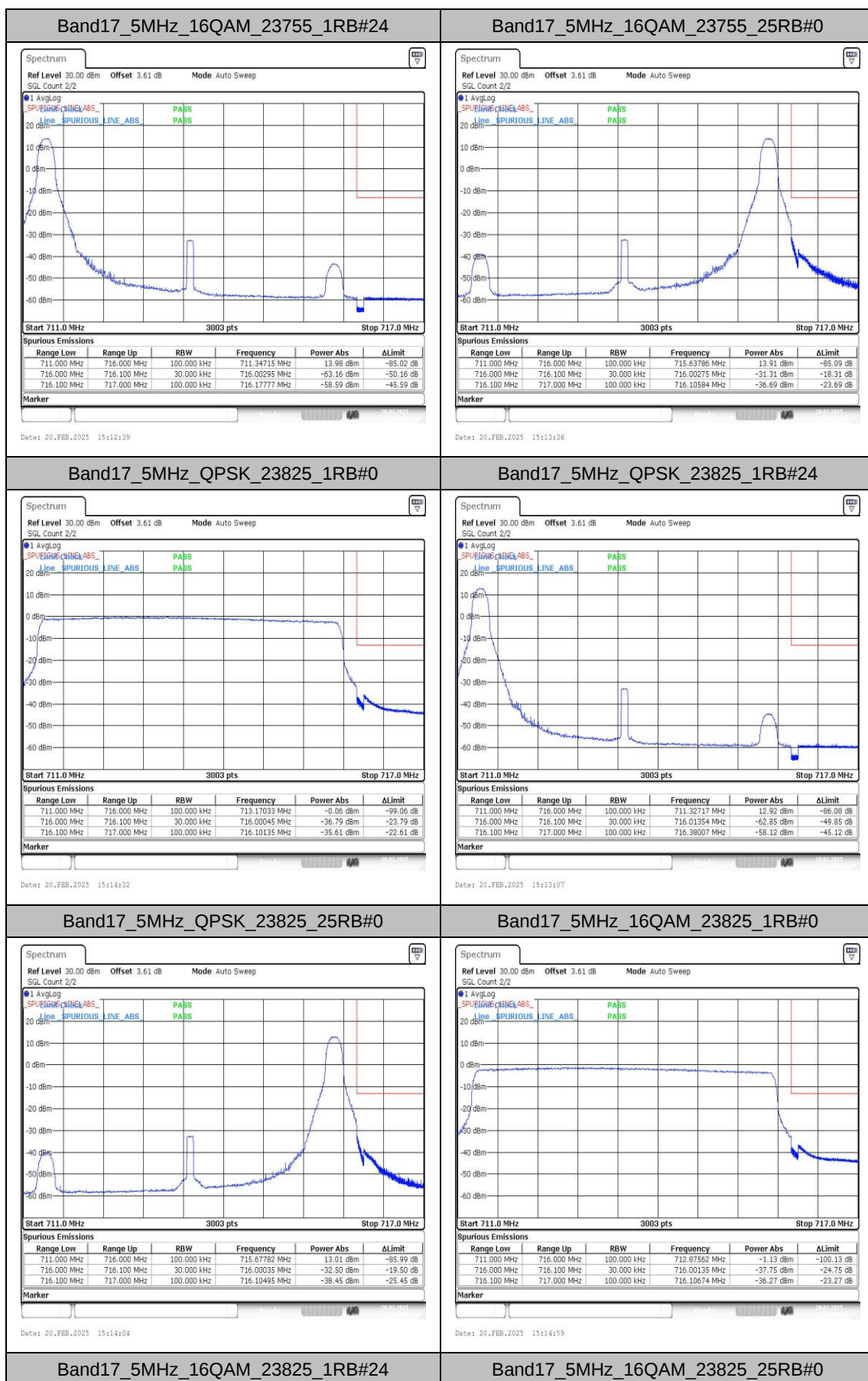
Appendix D: Band Edge

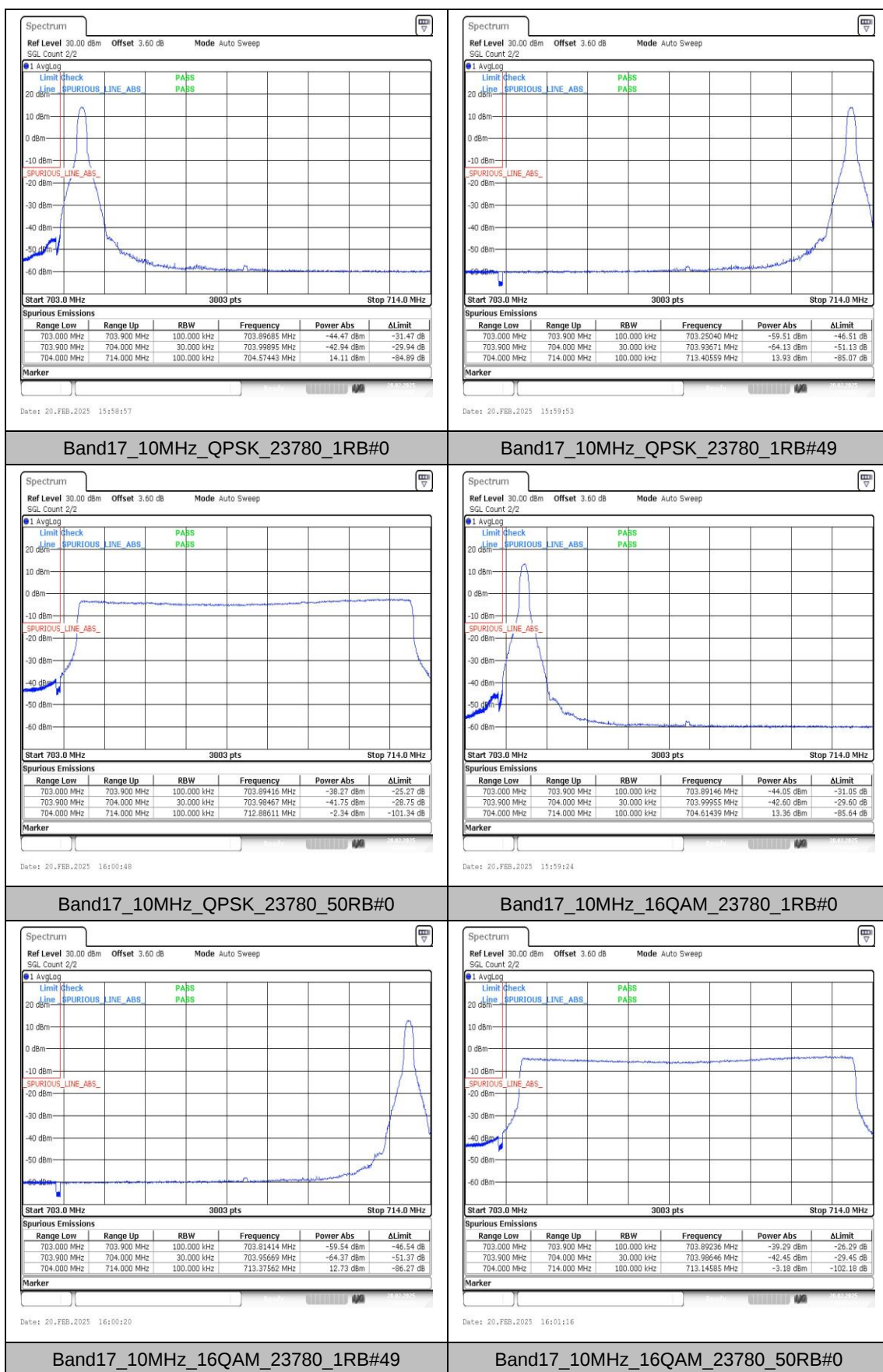
Test Result

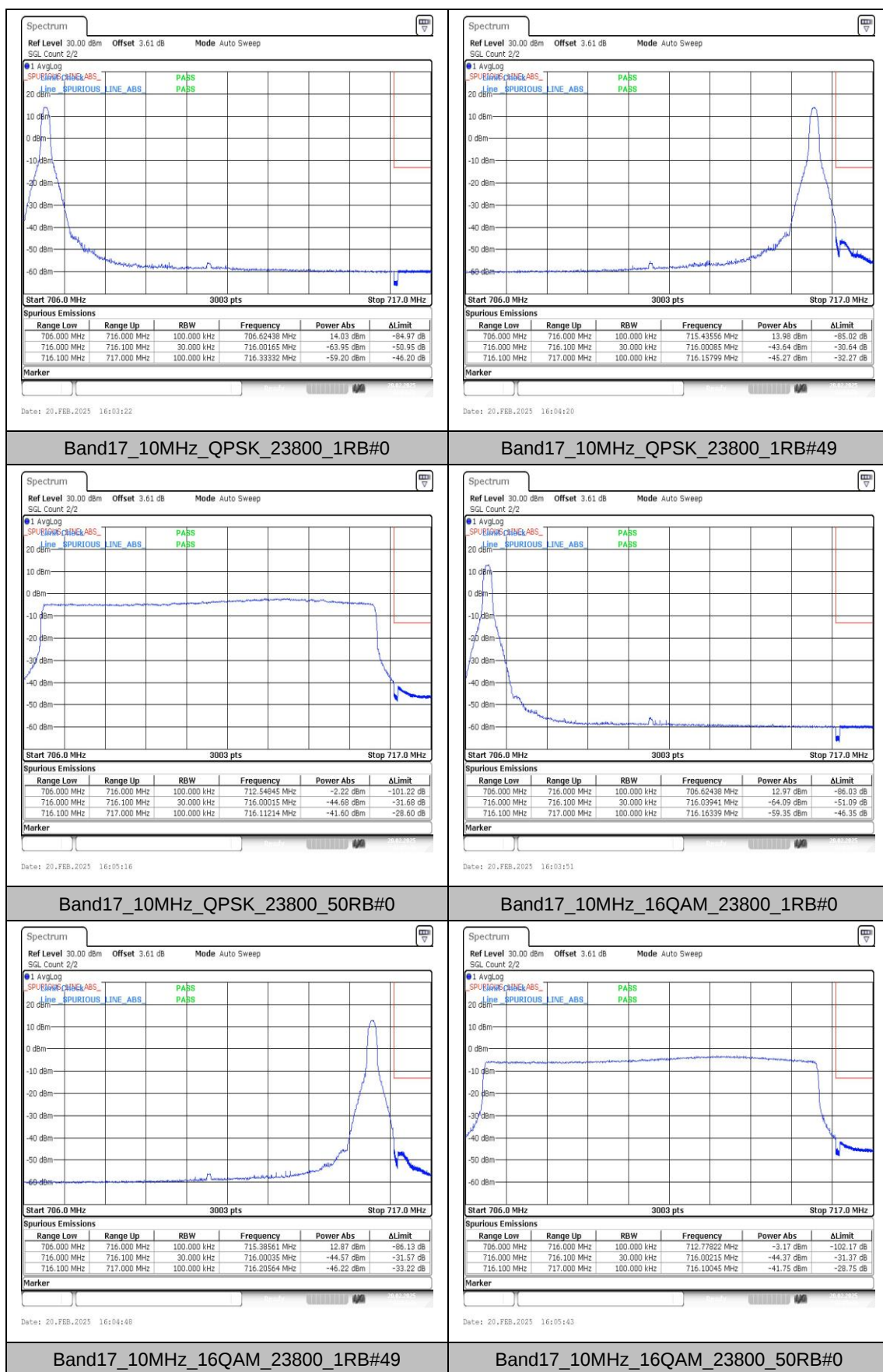
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	-30.48	PASS
Band17	5MHz	QPSK	23755	1RB#24	-56.48	PASS
Band17	5MHz	QPSK	23755	25RB#0	-32.57	PASS
Band17	5MHz	16QAM	23755	1RB#0	-31.23	PASS
Band17	5MHz	16QAM	23755	1RB#24	-56.29	PASS
Band17	5MHz	16QAM	23755	25RB#0	-33.57	PASS
Band17	5MHz	QPSK	23825	1RB#0	-58.59	PASS
Band17	5MHz	QPSK	23825	1RB#24	-31.31	PASS
Band17	5MHz	QPSK	23825	25RB#0	-35.61	PASS
Band17	5MHz	16QAM	23825	1RB#0	-58.12	PASS
Band17	5MHz	16QAM	23825	1RB#24	-32.50	PASS
Band17	5MHz	16QAM	23825	25RB#0	-36.27	PASS
Band17	10MHz	QPSK	23780	1RB#0	-42.94	PASS
Band17	10MHz	QPSK	23780	1RB#49	-59.51	PASS
Band17	10MHz	QPSK	23780	50RB#0	-38.27	PASS
Band17	10MHz	16QAM	23780	1RB#0	-42.60	PASS
Band17	10MHz	16QAM	23780	1RB#49	-59.54	PASS
Band17	10MHz	16QAM	23780	50RB#0	-39.29	PASS
Band17	10MHz	QPSK	23800	1RB#0	-59.20	PASS
Band17	10MHz	QPSK	23800	1RB#49	-43.64	PASS
Band17	10MHz	QPSK	23800	50RB#0	-41.60	PASS
Band17	10MHz	16QAM	23800	1RB#0	-59.35	PASS
Band17	10MHz	16QAM	23800	1RB#49	-44.57	PASS
Band17	10MHz	16QAM	23800	50RB#0	-41.75	PASS

Test Graphs









Appendix E: Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	0.009~0.15	-74.21	PASS
Band17	5MHz	QPSK	23755	1RB#0	0.15~30	-74.95	PASS
Band17	5MHz	QPSK	23755	1RB#0	30~1000	-65.70	PASS
Band17	5MHz	QPSK	23755	1RB#0	1000~3000	-53.02	PASS
Band17	5MHz	QPSK	23755	1RB#0	3000~10000	-42.21	PASS
Band17	5MHz	16QAM	23755	1RB#0	0.009~0.15	-74.21	PASS
Band17	5MHz	16QAM	23755	1RB#0	0.15~30	-74.64	PASS
Band17	5MHz	16QAM	23755	1RB#0	30~1000	-67.59	PASS
Band17	5MHz	16QAM	23755	1RB#0	1000~3000	-53.02	PASS
Band17	5MHz	16QAM	23755	1RB#0	3000~10000	-42.07	PASS
Band17	5MHz	QPSK	23790	1RB#0	0.009~0.15	-74.24	PASS
Band17	5MHz	QPSK	23790	1RB#0	0.15~30	-75.04	PASS
Band17	5MHz	QPSK	23790	1RB#0	30~1000	-66.49	PASS
Band17	5MHz	QPSK	23790	1RB#0	1000~3000	-53.08	PASS
Band17	5MHz	QPSK	23790	1RB#0	3000~10000	-42.15	PASS
Band17	5MHz	16QAM	23790	1RB#0	0.009~0.15	-73.85	PASS
Band17	5MHz	16QAM	23790	1RB#0	0.15~30	-75.23	PASS
Band17	5MHz	16QAM	23790	1RB#0	30~1000	-66.96	PASS
Band17	5MHz	16QAM	23790	1RB#0	1000~3000	-52.95	PASS
Band17	5MHz	16QAM	23790	1RB#0	3000~10000	-42.14	PASS
Band17	5MHz	QPSK	23825	1RB#0	0.009~0.15	-71.88	PASS
Band17	5MHz	QPSK	23825	1RB#0	0.15~30	-75.53	PASS
Band17	5MHz	QPSK	23825	1RB#0	30~1000	-67.56	PASS
Band17	5MHz	QPSK	23825	1RB#0	1000~3000	-53.04	PASS
Band17	5MHz	QPSK	23825	1RB#0	3000~10000	-42.08	PASS
Band17	5MHz	16QAM	23825	1RB#0	0.009~0.15	-72.23	PASS
Band17	5MHz	16QAM	23825	1RB#0	0.15~30	-75.03	PASS
Band17	5MHz	16QAM	23825	1RB#0	30~1000	-66.67	PASS
Band17	5MHz	16QAM	23825	1RB#0	1000~3000	-53.02	PASS
Band17	5MHz	16QAM	23825	1RB#0	3000~10000	-42.19	PASS
Band17	10MHz	QPSK	23780	1RB#0	0.009~0.15	-74.28	PASS
Band17	10MHz	QPSK	23780	1RB#0	0.15~30	-74.77	PASS
Band17	10MHz	QPSK	23780	1RB#0	30~1000	-67.62	PASS
Band17	10MHz	QPSK	23780	1RB#0	1000~3000	-52.98	PASS

Band17	10MHz	QPSK	23780	1RB#0	3000~10000	-42.11	PASS
Band17	10MHz	16QAM	23780	1RB#0	0.009~0.15	-71.90	PASS
Band17	10MHz	16QAM	23780	1RB#0	0.15~30	-74.39	PASS
Band17	10MHz	16QAM	23780	1RB#0	30~1000	-67.58	PASS
Band17	10MHz	16QAM	23780	1RB#0	1000~3000	-53.04	PASS
Band17	10MHz	16QAM	23780	1RB#0	3000~10000	-42.18	PASS
Band17	10MHz	QPSK	23790	1RB#0	0.009~0.15	-71.80	PASS
Band17	10MHz	QPSK	23790	1RB#0	0.15~30	-74.08	PASS
Band17	10MHz	QPSK	23790	1RB#0	30~1000	-67.83	PASS
Band17	10MHz	QPSK	23790	1RB#0	1000~3000	-52.98	PASS
Band17	10MHz	QPSK	23790	1RB#0	3000~10000	-42.16	PASS
Band17	10MHz	16QAM	23790	1RB#0	0.009~0.15	-73.90	PASS
Band17	10MHz	16QAM	23790	1RB#0	0.15~30	-75.14	PASS
Band17	10MHz	16QAM	23790	1RB#0	30~1000	-67.33	PASS
Band17	10MHz	16QAM	23790	1RB#0	1000~3000	-53.07	PASS
Band17	10MHz	16QAM	23790	1RB#0	3000~10000	-42.12	PASS
Band17	10MHz	QPSK	23800	1RB#0	0.009~0.15	-72.07	PASS
Band17	10MHz	QPSK	23800	1RB#0	0.15~30	-73.66	PASS
Band17	10MHz	QPSK	23800	1RB#0	30~1000	-67.64	PASS
Band17	10MHz	QPSK	23800	1RB#0	1000~3000	-52.85	PASS
Band17	10MHz	QPSK	23800	1RB#0	3000~10000	-42.23	PASS
Band17	10MHz	16QAM	23800	1RB#0	0.009~0.15	-71.41	PASS
Band17	10MHz	16QAM	23800	1RB#0	0.15~30	-74.43	PASS
Band17	10MHz	16QAM	23800	1RB#0	30~1000	-67.88	PASS
Band17	10MHz	16QAM	23800	1RB#0	1000~3000	-53.11	PASS
Band17	10MHz	16QAM	23800	1RB#0	3000~10000	-42.14	PASS

Test Graphs

