

Appendix for LTE BAND 71

Product Name: Smart Phone

Model No: Neo

Appendix A: Average Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band71	5MHz	QPSK	133147	1RB#0	20.29	PASS
Band71	5MHz	16QAM	133147	1RB#0	19.31	PASS
Band71	5MHz	QPSK	133147	1RB#12	20.47	PASS
Band71	5MHz	16QAM	133147	1RB#12	19.56	PASS
Band71	5MHz	QPSK	133147	1RB#24	20.36	PASS
Band71	5MHz	16QAM	133147	1RB#24	19.48	PASS
Band71	5MHz	QPSK	133147	12RB#0	19.21	PASS
Band71	5MHz	16QAM	133147	12RB#0	18.24	PASS
Band71	5MHz	QPSK	133147	12RB#6	19.26	PASS
Band71	5MHz	16QAM	133147	12RB#6	18.25	PASS
Band71	5MHz	QPSK	133147	12RB#13	19.38	PASS
Band71	5MHz	16QAM	133147	12RB#13	18.38	PASS
Band71	5MHz	QPSK	133147	25RB#0	19.32	PASS
Band71	5MHz	16QAM	133147	25RB#0	18.39	PASS
Band71	5MHz	QPSK	133297	1RB#0	20.36	PASS
Band71	5MHz	16QAM	133297	1RB#0	19.44	PASS
Band71	5MHz	QPSK	133297	1RB#12	20.38	PASS
Band71	5MHz	16QAM	133297	1RB#12	19.45	PASS
Band71	5MHz	QPSK	133297	1RB#24	20.26	PASS
Band71	5MHz	16QAM	133297	1RB#24	19.31	PASS
Band71	5MHz	QPSK	133297	12RB#0	19.34	PASS
Band71	5MHz	16QAM	133297	12RB#0	18.35	PASS
Band71	5MHz	QPSK	133297	12RB#6	19.36	PASS
Band71	5MHz	16QAM	133297	12RB#6	18.38	PASS
Band71	5MHz	QPSK	133297	12RB#13	19.34	PASS
Band71	5MHz	16QAM	133297	12RB#13	18.35	PASS
Band71	5MHz	QPSK	133297	25RB#0	19.36	PASS
Band71	5MHz	16QAM	133297	25RB#0	18.42	PASS
Band71	5MHz	QPSK	133447	1RB#0	20.27	PASS
Band71	5MHz	16QAM	133447	1RB#0	19.25	PASS
Band71	5MHz	QPSK	133447	1RB#12	20.38	PASS
Band71	5MHz	16QAM	133447	1RB#12	19.50	PASS
Band71	5MHz	QPSK	133447	1RB#24	20.38	PASS
Band71	5MHz	16QAM	133447	1RB#24	19.45	PASS
Band71	5MHz	QPSK	133447	12RB#0	19.33	PASS
Band71	5MHz	16QAM	133447	12RB#0	18.33	PASS

Band71	5MHz	QPSK	133447	12RB#6	19.35	PASS
Band71	5MHz	16QAM	133447	12RB#6	18.32	PASS
Band71	5MHz	QPSK	133447	12RB#13	19.47	PASS
Band71	5MHz	16QAM	133447	12RB#13	18.47	PASS
Band71	5MHz	QPSK	133447	25RB#0	19.39	PASS
Band71	5MHz	16QAM	133447	25RB#0	18.41	PASS
Band71	10MHz	QPSK	133172	1RB#0	20.91	PASS
Band71	10MHz	16QAM	133172	1RB#0	19.29	PASS
Band71	10MHz	QPSK	133172	1RB#24	20.60	PASS
Band71	10MHz	16QAM	133172	1RB#24	19.59	PASS
Band71	10MHz	QPSK	133172	1RB#49	20.47	PASS
Band71	10MHz	16QAM	133172	1RB#49	19.37	PASS
Band71	10MHz	QPSK	133172	25RB#0	19.40	PASS
Band71	10MHz	16QAM	133172	25RB#0	18.40	PASS
Band71	10MHz	QPSK	133172	25RB#12	19.42	PASS
Band71	10MHz	16QAM	133172	25RB#12	18.42	PASS
Band71	10MHz	QPSK	133172	25RB#25	19.47	PASS
Band71	10MHz	16QAM	133172	25RB#25	18.52	PASS
Band71	10MHz	QPSK	133172	50RB#0	19.37	PASS
Band71	10MHz	16QAM	133172	50RB#0	18.39	PASS
Band71	10MHz	QPSK	133297	1RB#0	20.36	PASS
Band71	10MHz	16QAM	133297	1RB#0	19.58	PASS
Band71	10MHz	QPSK	133297	1RB#24	20.36	PASS
Band71	10MHz	16QAM	133297	1RB#24	19.51	PASS
Band71	10MHz	QPSK	133297	1RB#49	20.23	PASS
Band71	10MHz	16QAM	133297	1RB#49	19.45	PASS
Band71	10MHz	QPSK	133297	25RB#0	19.40	PASS
Band71	10MHz	16QAM	133297	25RB#0	18.45	PASS
Band71	10MHz	QPSK	133297	25RB#12	19.43	PASS
Band71	10MHz	16QAM	133297	25RB#12	18.41	PASS
Band71	10MHz	QPSK	133297	25RB#25	19.37	PASS
Band71	10MHz	16QAM	133297	25RB#25	18.39	PASS
Band71	10MHz	QPSK	133297	50RB#0	19.38	PASS
Band71	10MHz	16QAM	133297	50RB#0	18.42	PASS
Band71	10MHz	QPSK	133422	1RB#0	20.20	PASS
Band71	10MHz	16QAM	133422	1RB#0	19.47	PASS
Band71	10MHz	QPSK	133422	1RB#24	20.25	PASS
Band71	10MHz	16QAM	133422	1RB#24	19.67	PASS
Band71	10MHz	QPSK	133422	1RB#49	20.42	PASS
Band71	10MHz	16QAM	133422	1RB#49	19.64	PASS
Band71	10MHz	QPSK	133422	25RB#0	19.47	PASS
Band71	10MHz	16QAM	133422	25RB#0	18.38	PASS

Band71	10MHz	QPSK	133422	25RB#12	19.40	PASS
Band71	10MHz	16QAM	133422	25RB#12	18.41	PASS
Band71	10MHz	QPSK	133422	25RB#25	19.53	PASS
Band71	10MHz	16QAM	133422	25RB#25	18.48	PASS
Band71	10MHz	QPSK	133422	50RB#0	19.49	PASS
Band71	10MHz	16QAM	133422	50RB#0	18.43	PASS
Band71	15MHz	QPSK	133197	1RB#0	20.33	PASS
Band71	15MHz	16QAM	133197	1RB#0	19.63	PASS
Band71	15MHz	QPSK	133197	1RB#38	20.46	PASS
Band71	15MHz	16QAM	133197	1RB#38	19.77	PASS
Band71	15MHz	QPSK	133197	1RB#74	20.26	PASS
Band71	15MHz	16QAM	133197	1RB#74	19.61	PASS
Band71	15MHz	QPSK	133197	38RB#0	19.62	PASS
Band71	15MHz	16QAM	133197	38RB#0	19.68	PASS
Band71	15MHz	QPSK	133197	38RB#18	19.78	PASS
Band71	15MHz	16QAM	133197	38RB#18	19.74	PASS
Band71	15MHz	QPSK	133197	38RB#37	19.66	PASS
Band71	15MHz	16QAM	133197	38RB#37	19.68	PASS
Band71	15MHz	QPSK	133197	75RB#0	19.46	PASS
Band71	15MHz	16QAM	133197	75RB#0	18.50	PASS
Band71	15MHz	QPSK	133297	1RB#0	20.36	PASS
Band71	15MHz	16QAM	133297	1RB#0	19.57	PASS
Band71	15MHz	QPSK	133297	1RB#38	20.31	PASS
Band71	15MHz	16QAM	133297	1RB#38	19.53	PASS
Band71	15MHz	QPSK	133297	1RB#74	20.11	PASS
Band71	15MHz	16QAM	133297	1RB#74	19.34	PASS
Band71	15MHz	QPSK	133297	38RB#0	19.58	PASS
Band71	15MHz	16QAM	133297	38RB#0	19.61	PASS
Band71	15MHz	QPSK	133297	38RB#18	19.53	PASS
Band71	15MHz	16QAM	133297	38RB#18	19.54	PASS
Band71	15MHz	QPSK	133297	38RB#37	19.33	PASS
Band71	15MHz	16QAM	133297	38RB#37	19.36	PASS
Band71	15MHz	QPSK	133297	75RB#0	19.39	PASS
Band71	15MHz	16QAM	133297	75RB#0	18.34	PASS
Band71	15MHz	QPSK	133397	1RB#0	20.18	PASS
Band71	15MHz	16QAM	133397	1RB#0	19.41	PASS
Band71	15MHz	QPSK	133397	1RB#38	20.28	PASS
Band71	15MHz	16QAM	133397	1RB#38	19.48	PASS
Band71	15MHz	QPSK	133397	1RB#74	20.35	PASS
Band71	15MHz	16QAM	133397	1RB#74	19.58	PASS
Band71	15MHz	QPSK	133397	38RB#0	19.42	PASS
Band71	15MHz	16QAM	133397	38RB#0	19.41	PASS

Band71	15MHz	QPSK	133397	38RB#18	19.49	PASS
Band71	15MHz	16QAM	133397	38RB#18	19.48	PASS
Band71	15MHz	QPSK	133397	38RB#37	19.58	PASS
Band71	15MHz	16QAM	133397	38RB#37	19.58	PASS
Band71	15MHz	QPSK	133397	75RB#0	19.38	PASS
Band71	15MHz	16QAM	133397	75RB#0	18.36	PASS
Band71	20MHz	QPSK	133222	1RB#0	20.19	PASS
Band71	20MHz	16QAM	133222	1RB#0	19.37	PASS
Band71	20MHz	QPSK	133222	1RB#49	20.49	PASS
Band71	20MHz	16QAM	133222	1RB#49	19.85	PASS
Band71	20MHz	QPSK	133222	1RB#99	20.11	PASS
Band71	20MHz	16QAM	133222	1RB#99	19.39	PASS
Band71	20MHz	QPSK	133222	50RB#0	19.55	PASS
Band71	20MHz	16QAM	133222	50RB#0	18.52	PASS
Band71	20MHz	QPSK	133222	50RB#25	19.49	PASS
Band71	20MHz	16QAM	133222	50RB#25	18.51	PASS
Band71	20MHz	QPSK	133222	50RB#50	19.53	PASS
Band71	20MHz	16QAM	133222	50RB#50	18.56	PASS
Band71	20MHz	QPSK	133222	100RB#0	19.50	PASS
Band71	20MHz	16QAM	133222	100RB#0	18.56	PASS
Band71	20MHz	QPSK	133322	1RB#0	20.37	PASS
Band71	20MHz	16QAM	133322	1RB#0	19.39	PASS
Band71	20MHz	QPSK	133322	1RB#49	20.95	PASS
Band71	20MHz	16QAM	133322	1RB#49	19.42	PASS
Band71	20MHz	QPSK	133322	1RB#99	20.18	PASS
Band71	20MHz	16QAM	133322	1RB#99	19.19	PASS
Band71	20MHz	QPSK	133322	50RB#0	19.33	PASS
Band71	20MHz	16QAM	133322	50RB#0	18.32	PASS
Band71	20MHz	QPSK	133322	50RB#25	19.37	PASS
Band71	20MHz	16QAM	133322	50RB#25	18.33	PASS
Band71	20MHz	QPSK	133322	50RB#50	19.27	PASS
Band71	20MHz	16QAM	133322	50RB#50	18.25	PASS
Band71	20MHz	QPSK	133322	100RB#0	19.32	PASS
Band71	20MHz	16QAM	133322	100RB#0	18.30	PASS
Band71	20MHz	QPSK	133372	1RB#0	20.17	PASS
Band71	20MHz	16QAM	133372	1RB#0	19.38	PASS
Band71	20MHz	QPSK	133372	1RB#49	20.31	PASS
Band71	20MHz	16QAM	133372	1RB#49	19.62	PASS
Band71	20MHz	QPSK	133372	1RB#99	20.24	PASS
Band71	20MHz	16QAM	133372	1RB#99	19.48	PASS
Band71	20MHz	QPSK	133372	50RB#0	19.40	PASS
Band71	20MHz	16QAM	133372	50RB#0	18.46	PASS

Band71	20MHz	QPSK	133372	50RB#25	19.42	PASS
Band71	20MHz	16QAM	133372	50RB#25	18.46	PASS
Band71	20MHz	QPSK	133372	50RB#50	19.41	PASS
Band71	20MHz	16QAM	133372	50RB#50	18.35	PASS
Band71	20MHz	QPSK	133372	100RB#0	19.42	PASS
Band71	20MHz	16QAM	133372	100RB#0	18.43	PASS

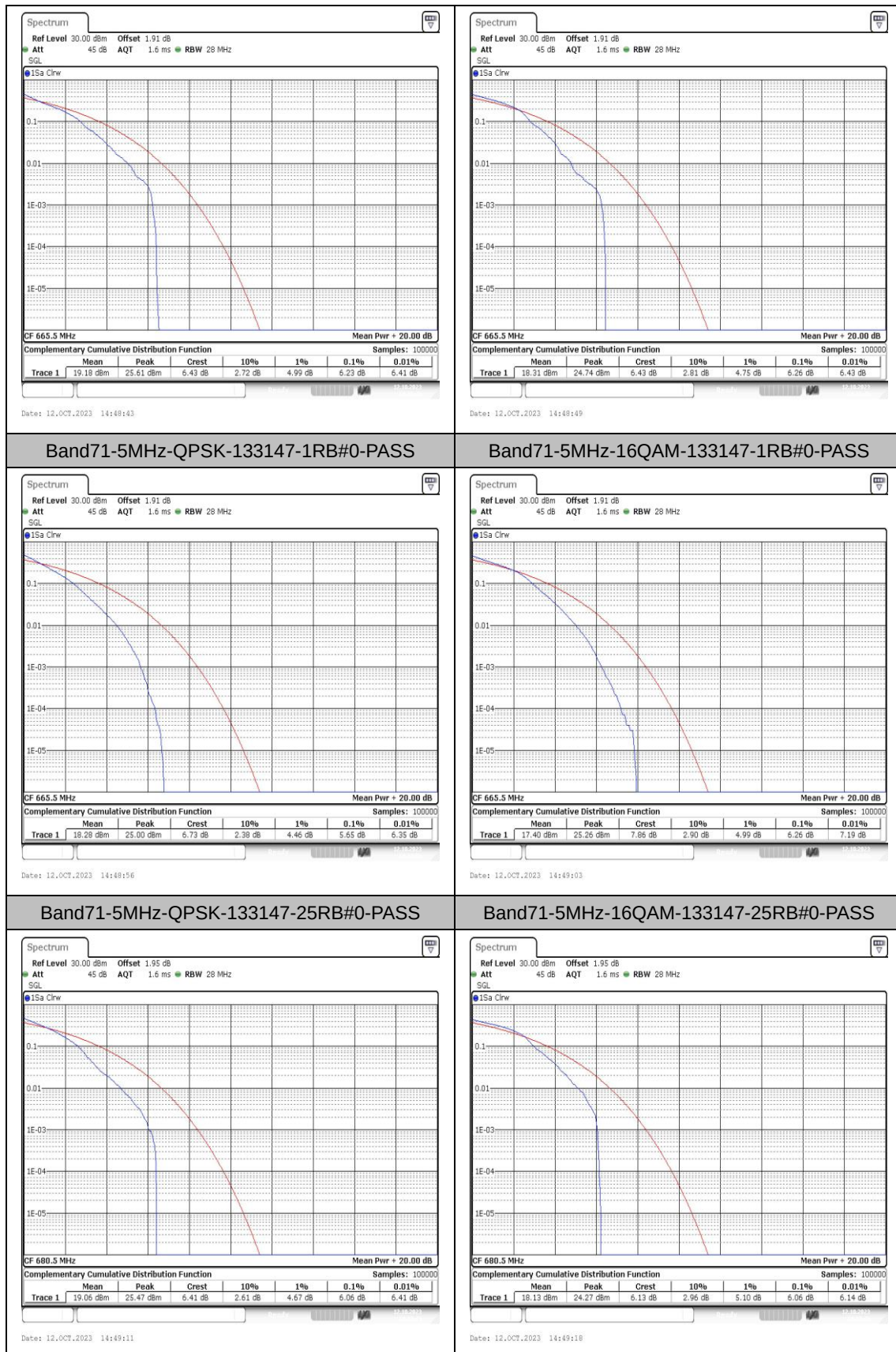
Appendix B: Peak-to-Average Ratio(CCDF)

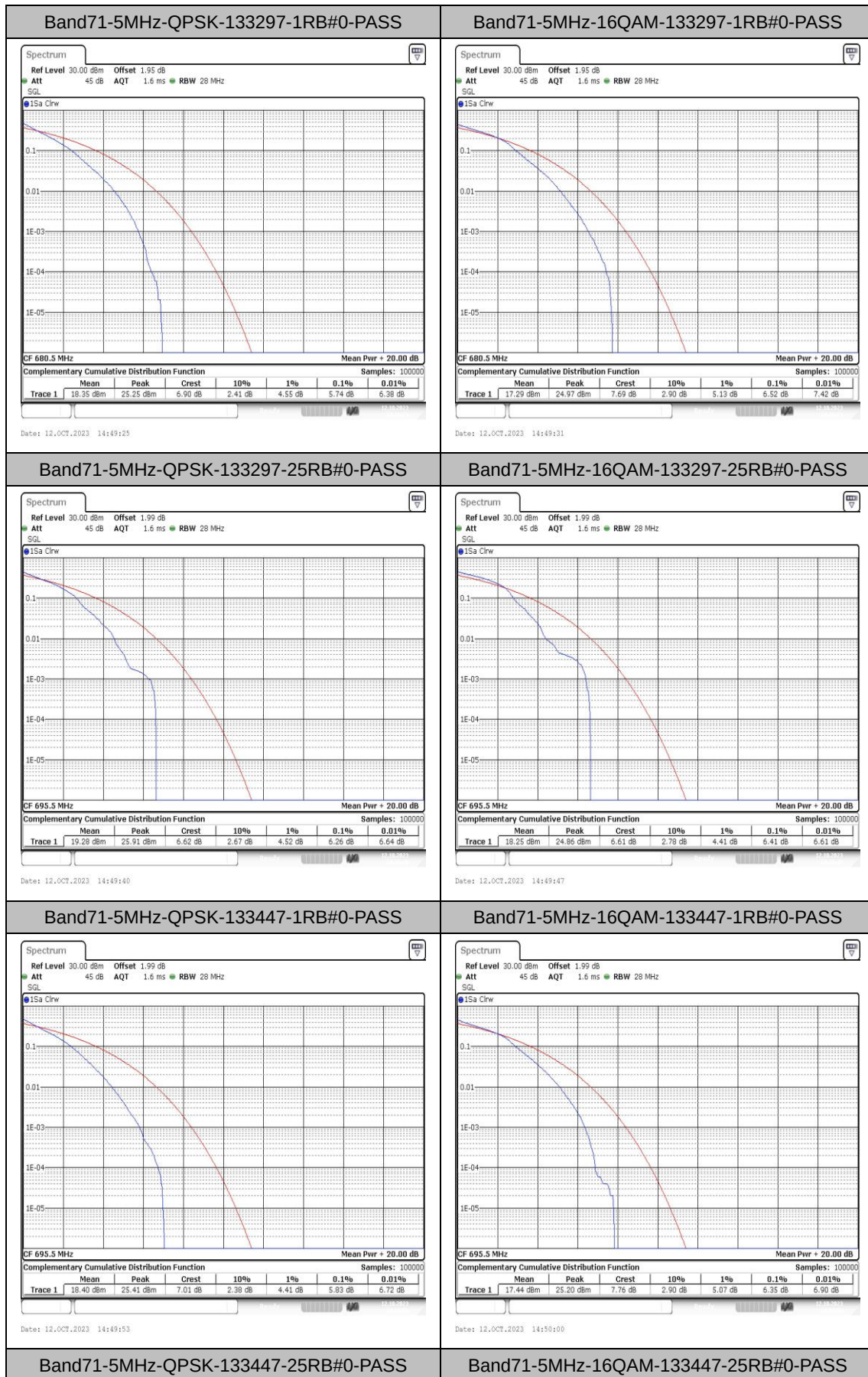
Test Result

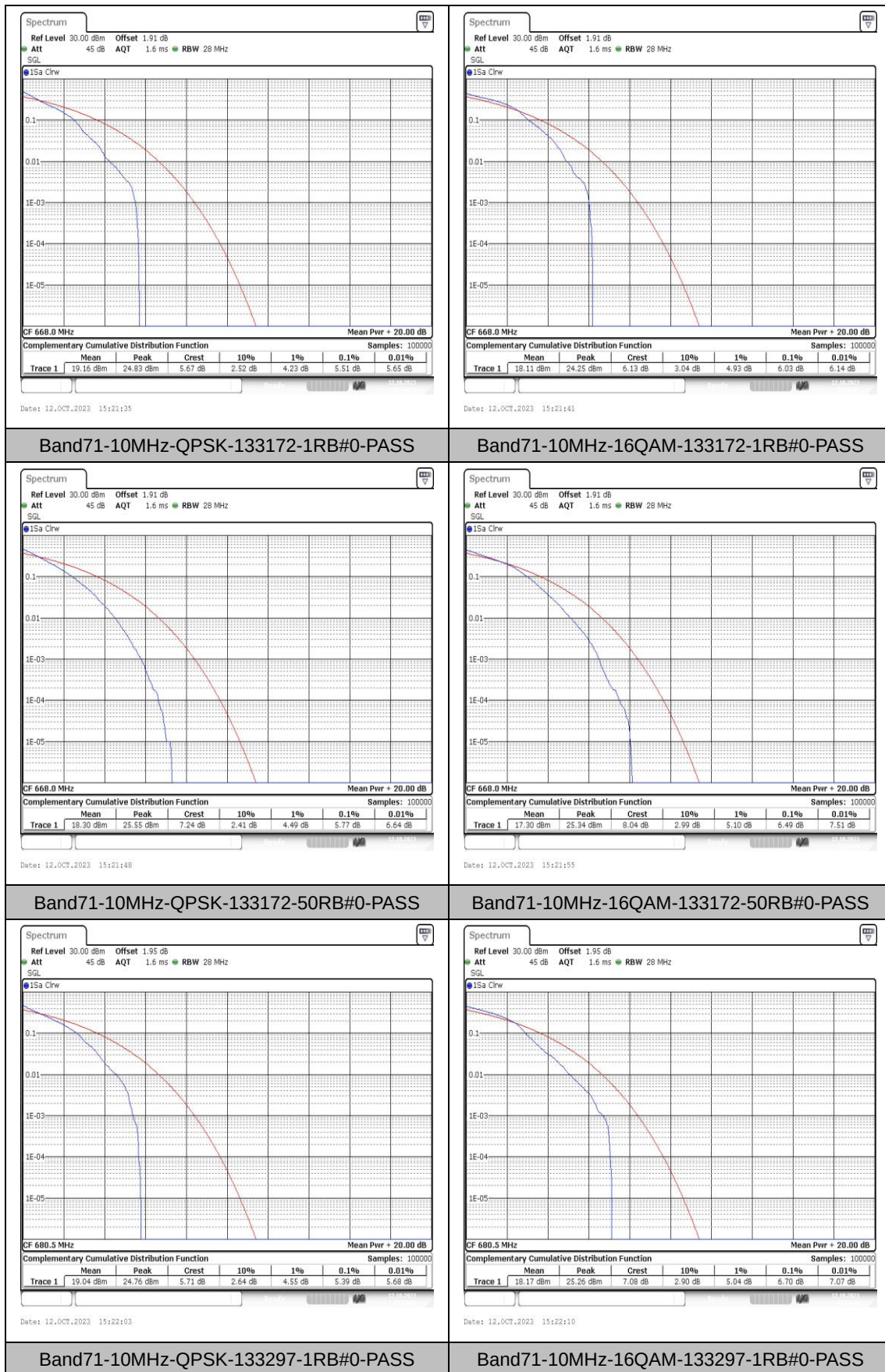
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band71	5MHz	QPSK	133147	1RB#0	6.23	13	PASS
Band71	5MHz	16QAM	133147	1RB#0	6.26	13	PASS
Band71	5MHz	QPSK	133147	25RB#0	5.65	13	PASS
Band71	5MHz	16QAM	133147	25RB#0	6.26	13	PASS
Band71	5MHz	QPSK	133297	1RB#0	6.06	13	PASS
Band71	5MHz	16QAM	133297	1RB#0	6.06	13	PASS
Band71	5MHz	QPSK	133297	25RB#0	5.74	13	PASS
Band71	5MHz	16QAM	133297	25RB#0	6.52	13	PASS
Band71	5MHz	QPSK	133447	1RB#0	6.26	13	PASS
Band71	5MHz	16QAM	133447	1RB#0	6.41	13	PASS
Band71	5MHz	QPSK	133447	25RB#0	5.83	13	PASS
Band71	5MHz	16QAM	133447	25RB#0	6.35	13	PASS
Band71	10MHz	QPSK	133172	1RB#0	5.51	13	PASS
Band71	10MHz	16QAM	133172	1RB#0	6.03	13	PASS
Band71	10MHz	QPSK	133172	50RB#0	5.77	13	PASS
Band71	10MHz	16QAM	133172	50RB#0	6.49	13	PASS
Band71	10MHz	QPSK	133297	1RB#0	5.39	13	PASS
Band71	10MHz	16QAM	133297	1RB#0	6.70	13	PASS
Band71	10MHz	QPSK	133297	50RB#0	5.54	13	PASS
Band71	10MHz	16QAM	133297	50RB#0	6.35	13	PASS
Band71	10MHz	QPSK	133422	1RB#0	5.10	13	PASS
Band71	10MHz	16QAM	133422	1RB#0	6.03	13	PASS
Band71	10MHz	QPSK	133422	50RB#0	5.62	13	PASS
Band71	10MHz	16QAM	133422	50RB#0	6.49	13	PASS
Band71	15MHz	QPSK	133197	1RB#0	6.09	13	PASS
Band71	15MHz	16QAM	133197	1RB#0	5.97	13	PASS
Band71	15MHz	QPSK	133197	75RB#0	5.94	13	PASS
Band71	15MHz	16QAM	133197	75RB#0	6.49	13	PASS
Band71	15MHz	QPSK	133297	1RB#0	5.45	13	PASS
Band71	15MHz	16QAM	133297	1RB#0	6.32	13	PASS
Band71	15MHz	QPSK	133297	75RB#0	5.91	13	PASS
Band71	15MHz	16QAM	133297	75RB#0	6.41	13	PASS
Band71	15MHz	QPSK	133397	1RB#0	5.16	13	PASS
Band71	15MHz	16QAM	133397	1RB#0	6.49	13	PASS
Band71	15MHz	QPSK	133397	75RB#0	5.97	13	PASS
Band71	15MHz	16QAM	133397	75RB#0	6.49	13	PASS

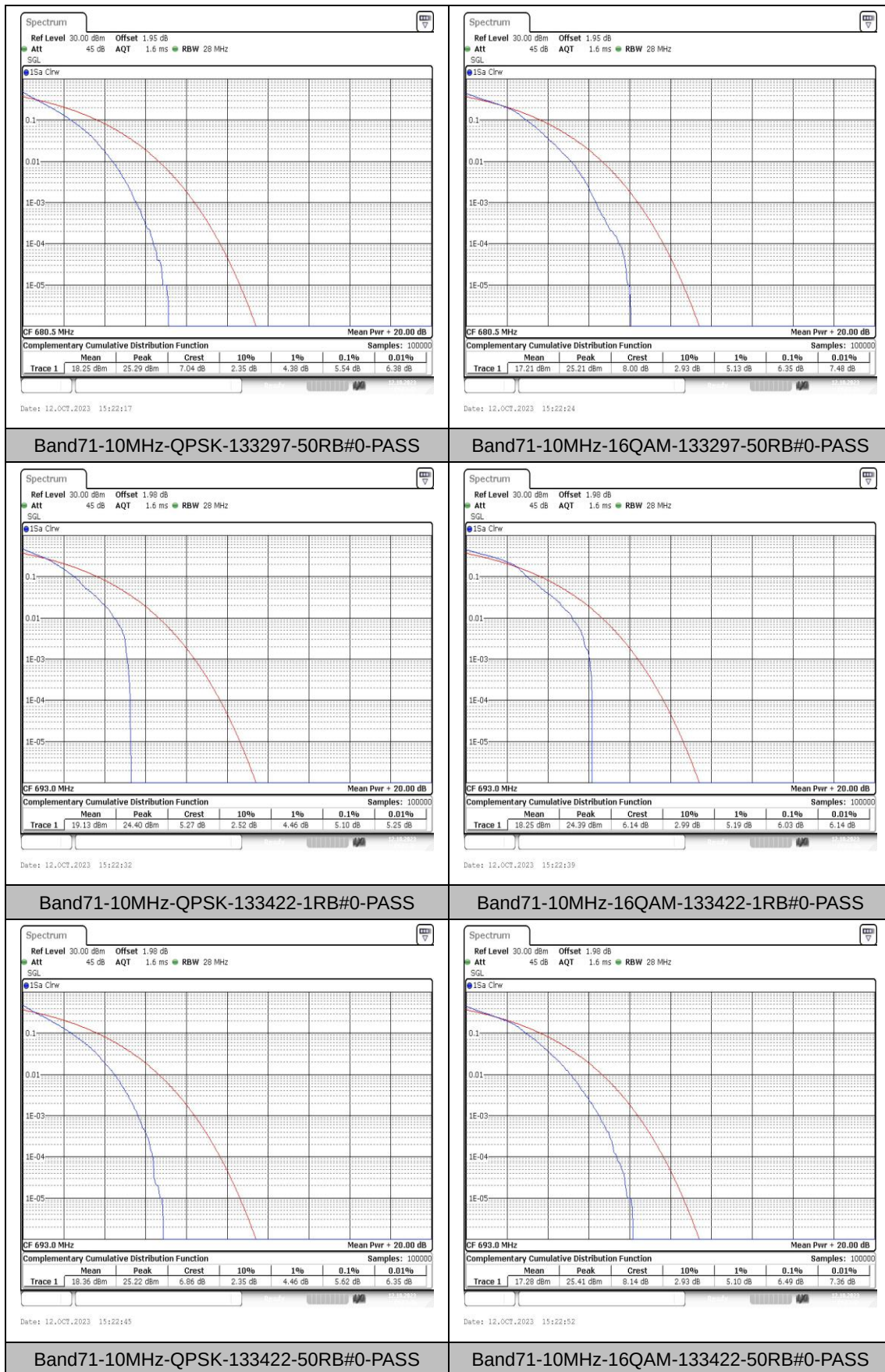
Band71	20MHz	QPSK	133222	1RB#0	5.42	13	PASS
Band71	20MHz	16QAM	133222	1RB#0	5.94	13	PASS
Band71	20MHz	QPSK	133222	100RB#0	5.62	13	PASS
Band71	20MHz	16QAM	133222	100RB#0	6.41	13	PASS
Band71	20MHz	QPSK	133322	1RB#0	5.68	13	PASS
Band71	20MHz	16QAM	133322	1RB#0	5.97	13	PASS
Band71	20MHz	QPSK	133322	100RB#0	5.48	13	PASS
Band71	20MHz	16QAM	133322	100RB#0	6.32	13	PASS
Band71	20MHz	QPSK	133372	1RB#0	6.38	13	PASS
Band71	20MHz	16QAM	133372	1RB#0	6.09	13	PASS
Band71	20MHz	QPSK	133372	100RB#0	5.68	13	PASS
Band71	20MHz	16QAM	133372	100RB#0	6.32	13	PASS

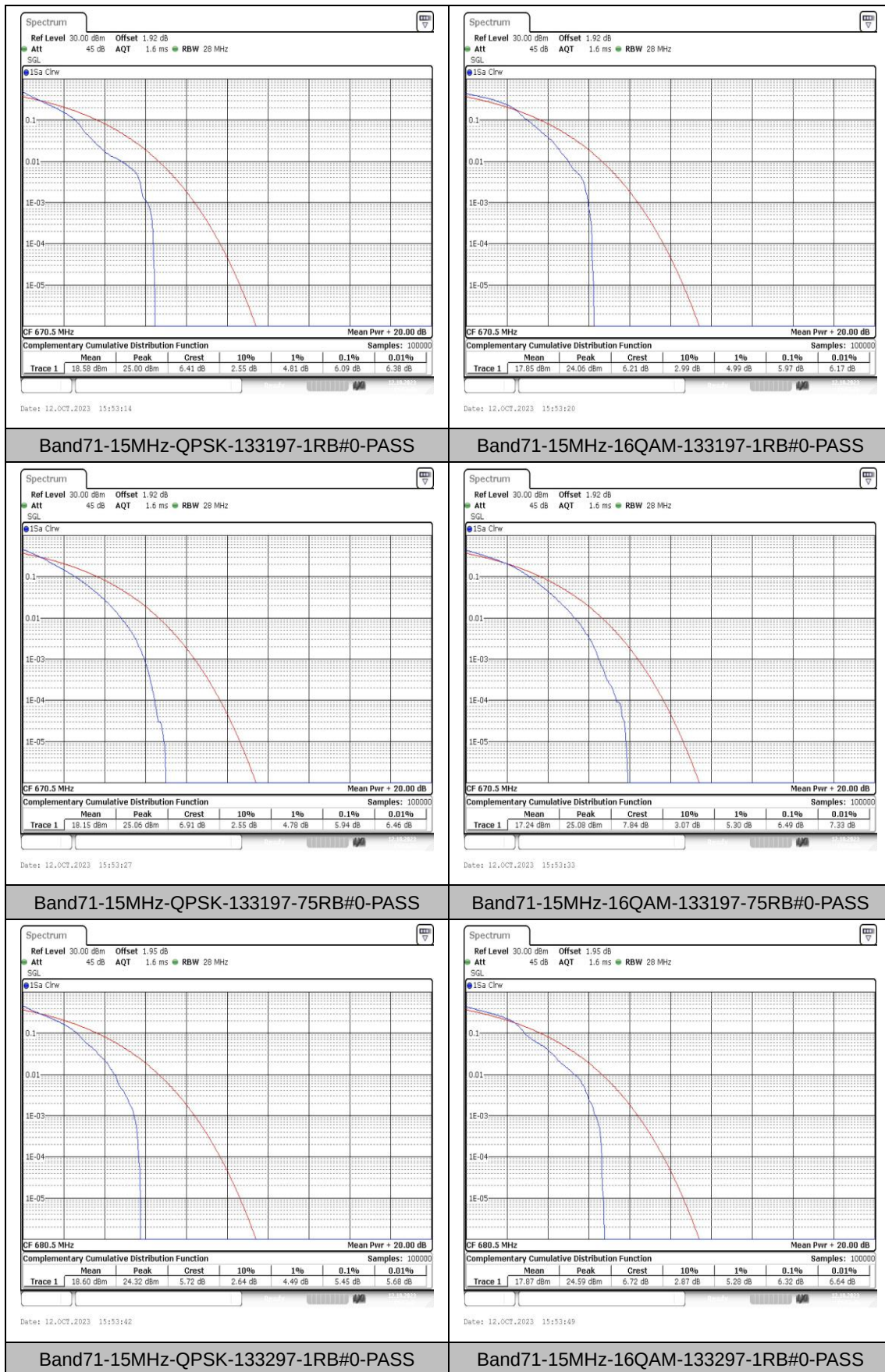
Test Graphs

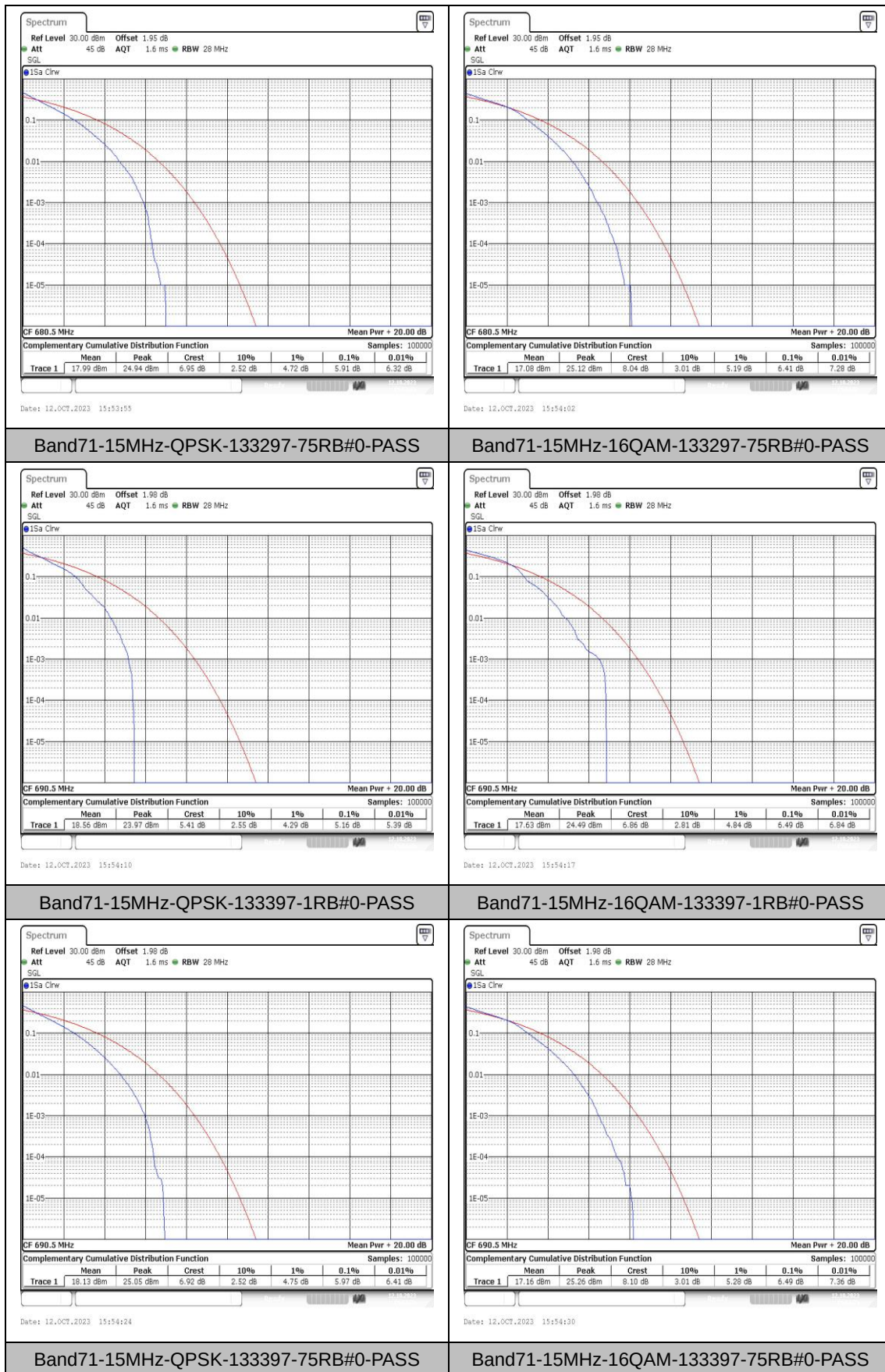


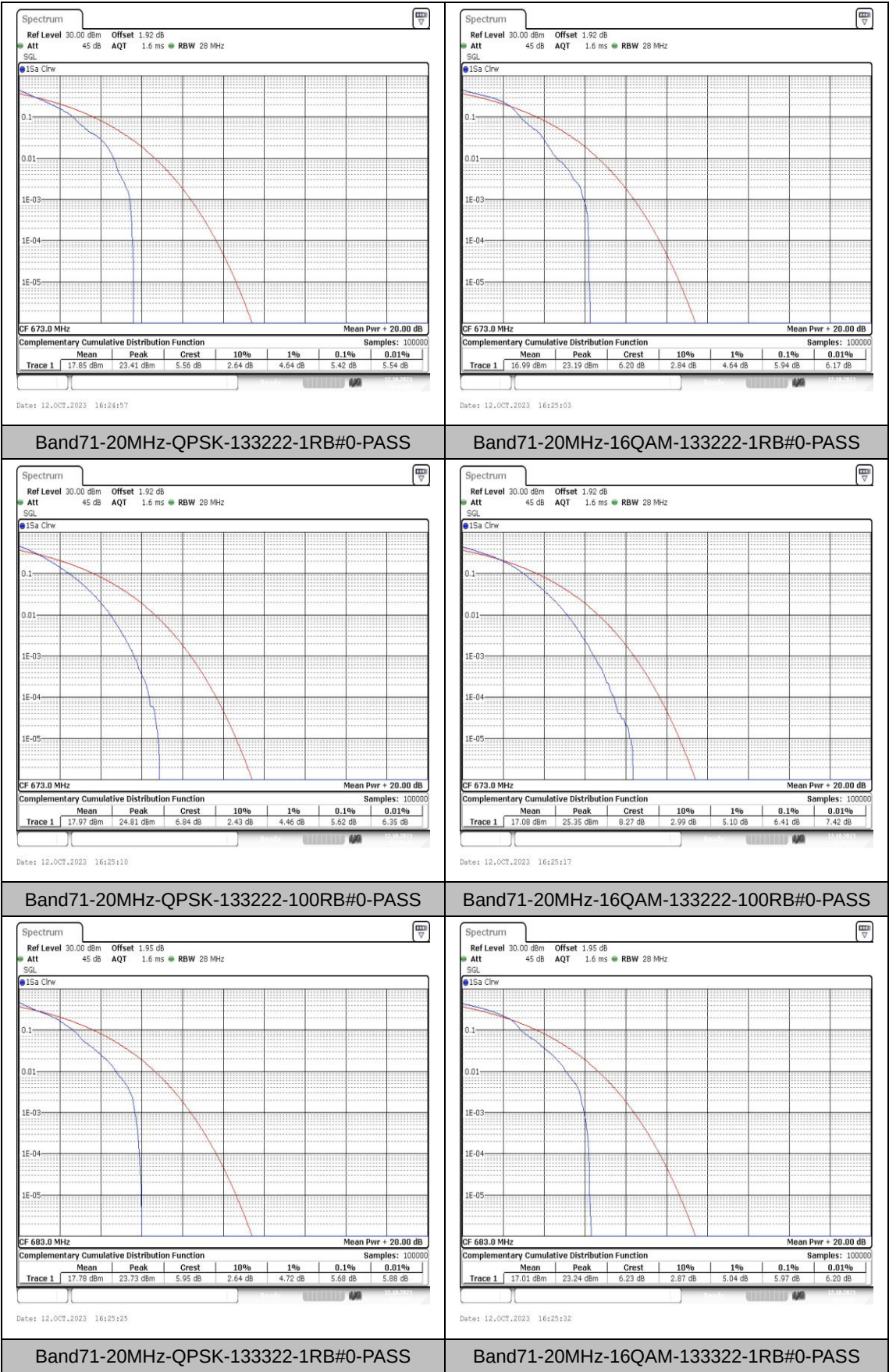


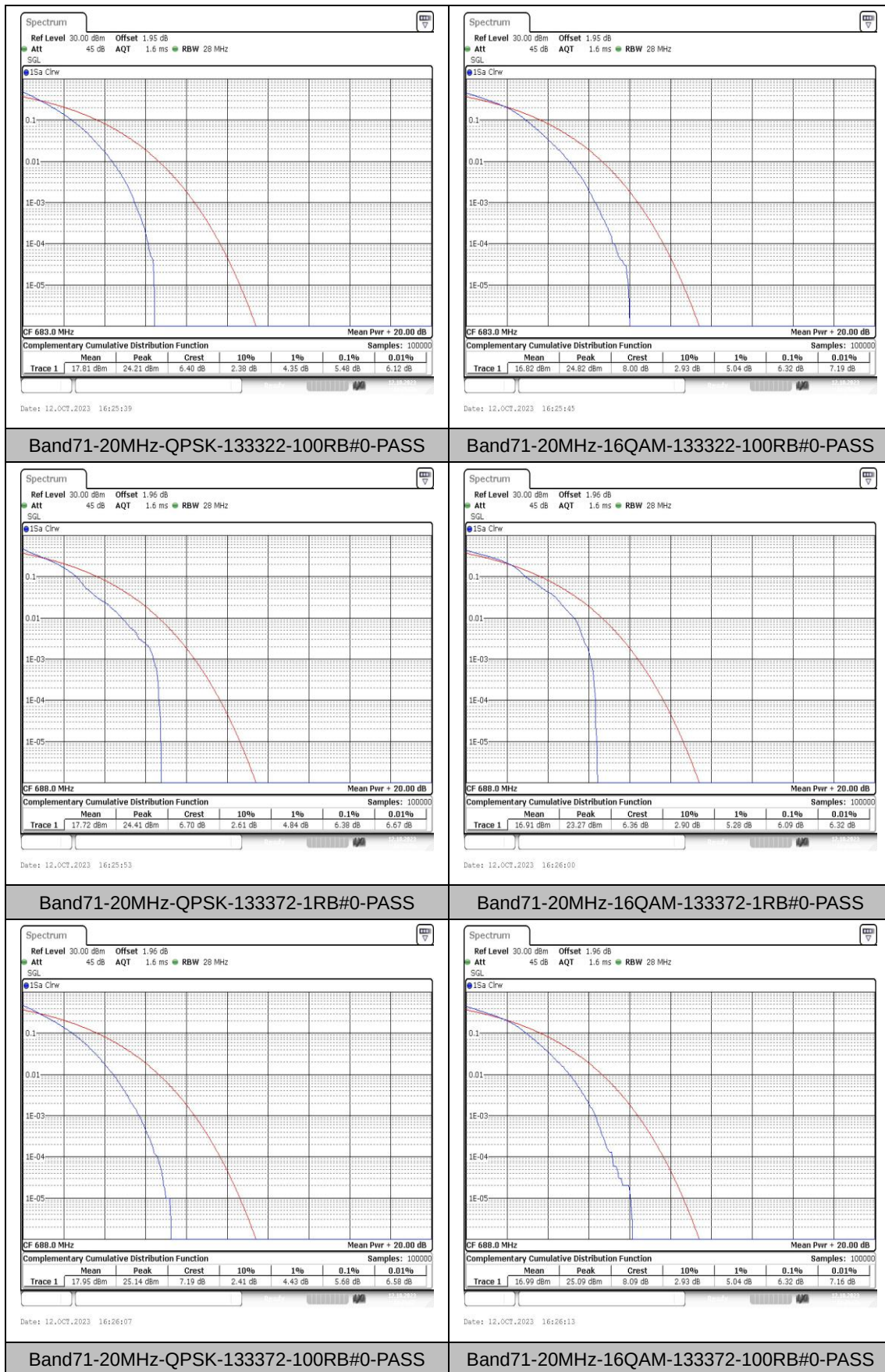










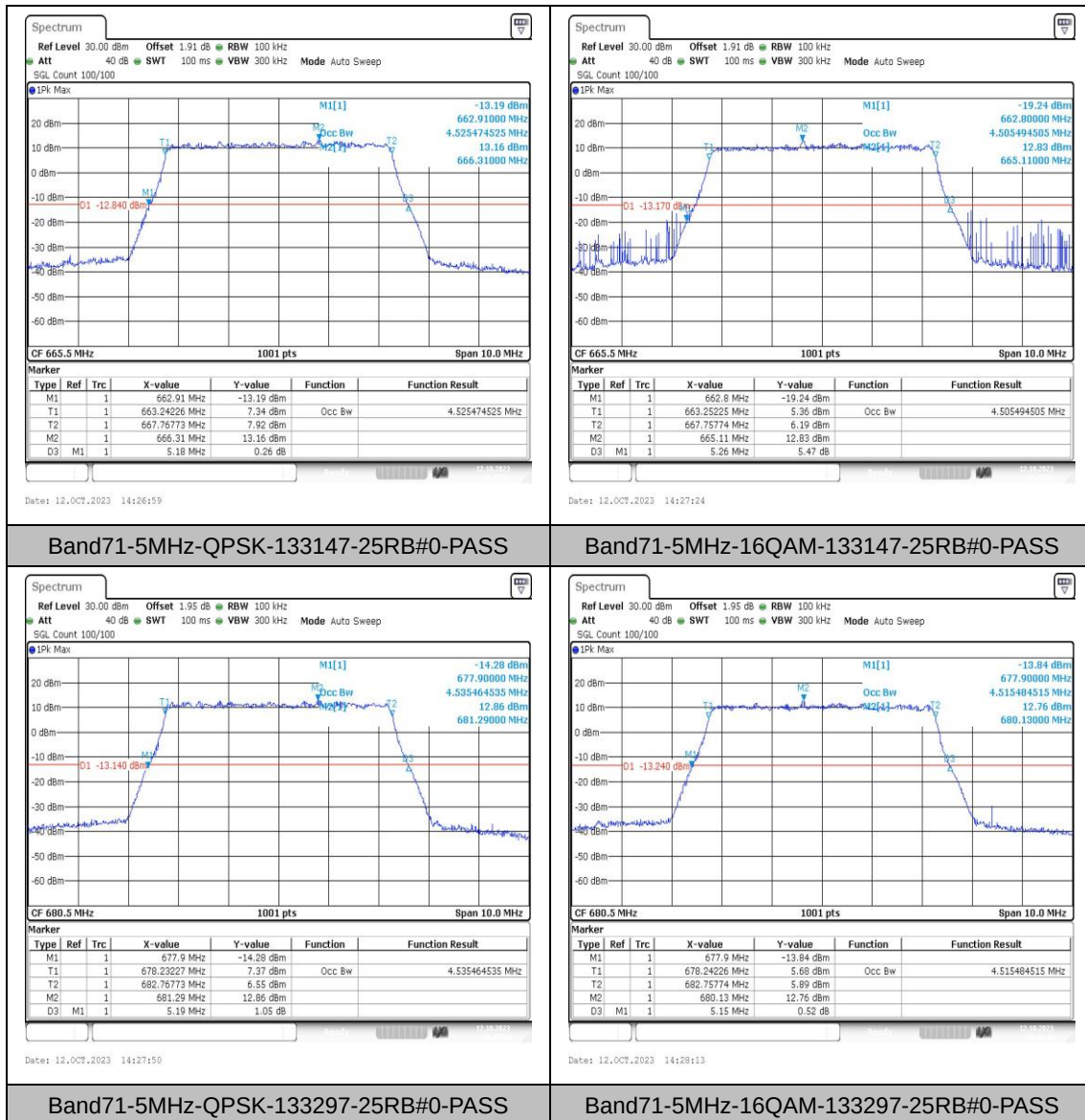


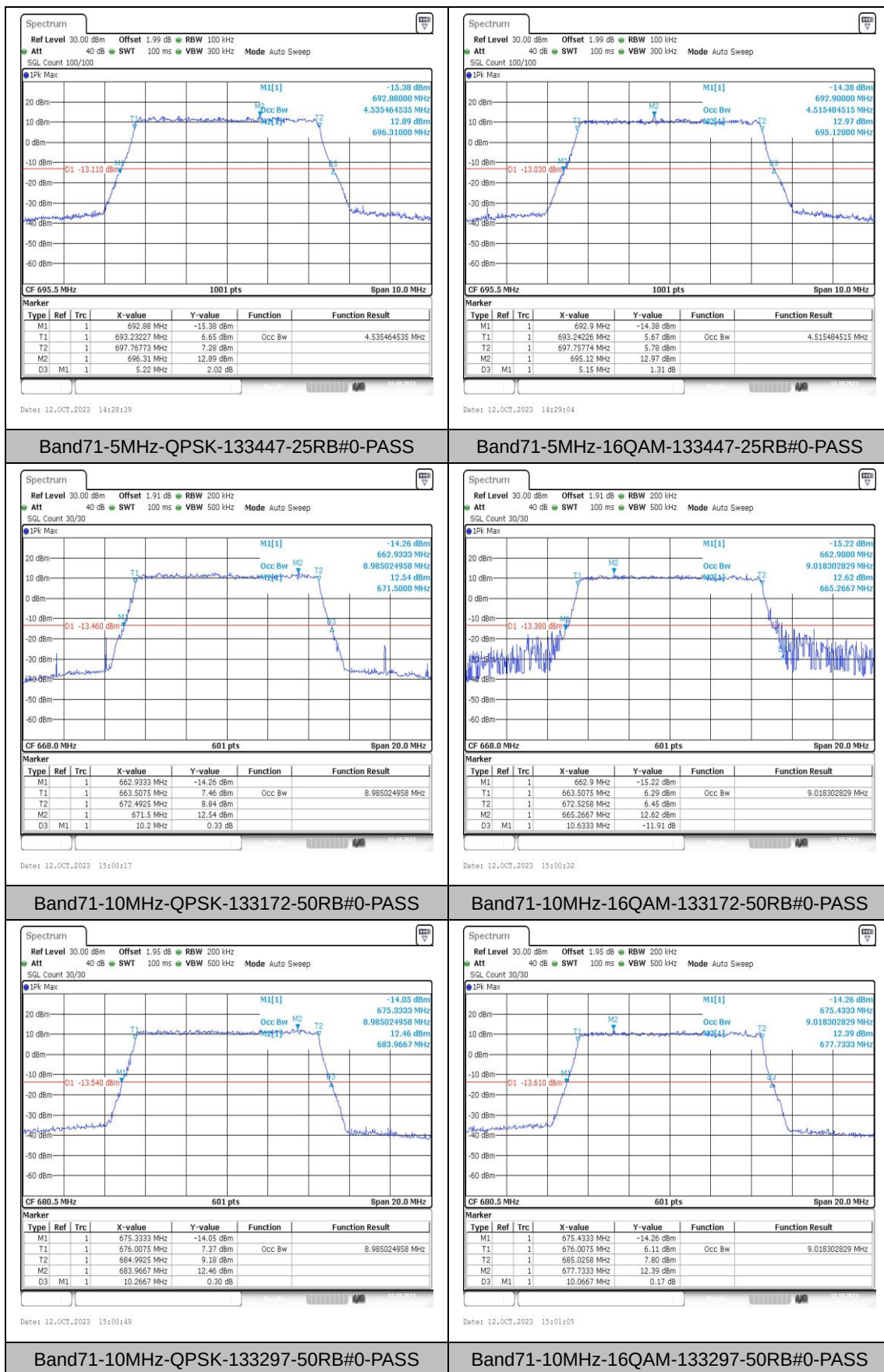
Appendix C: 26dB Bandwidth and Occupied Bandwidth

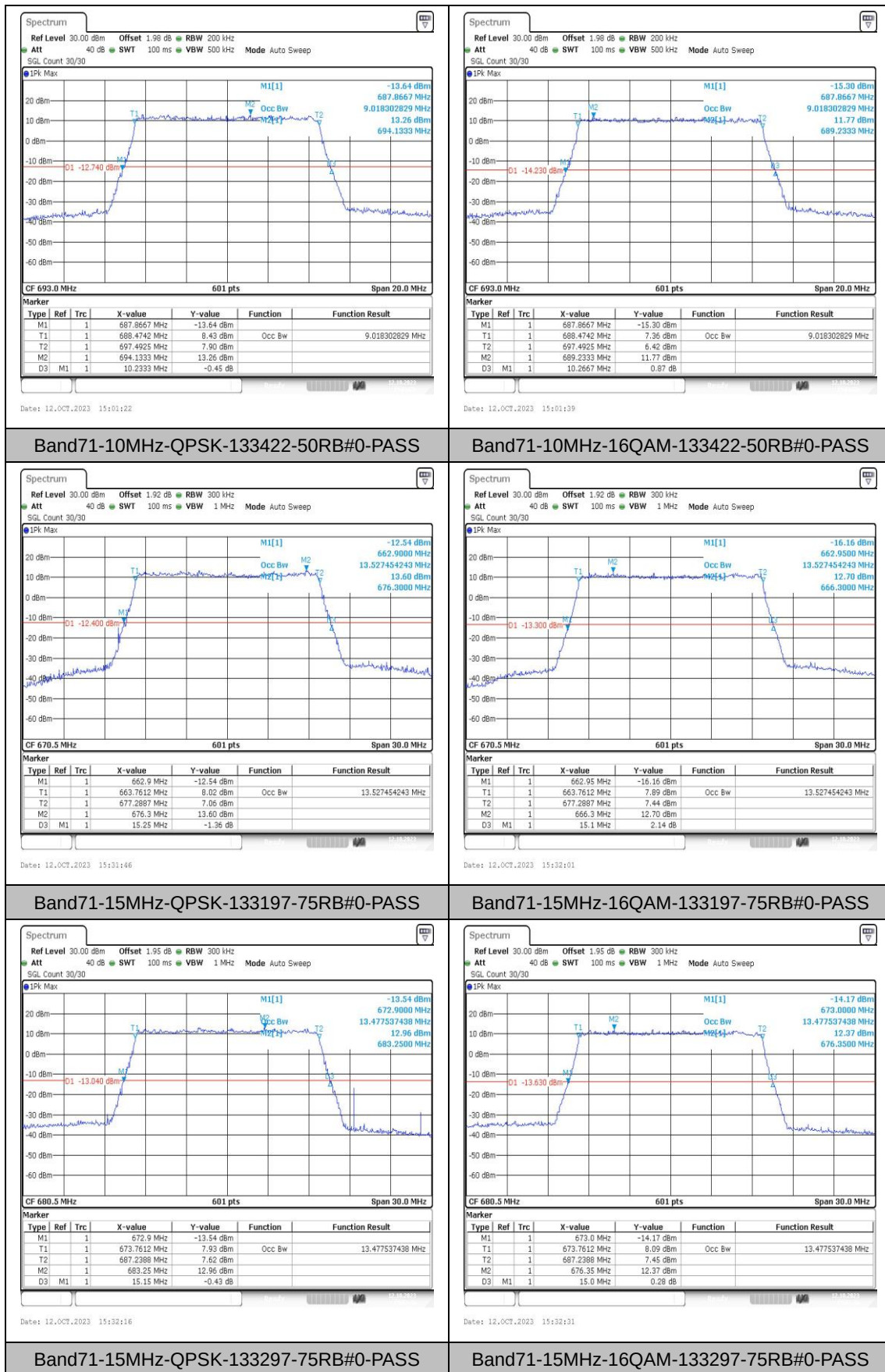
Test Result

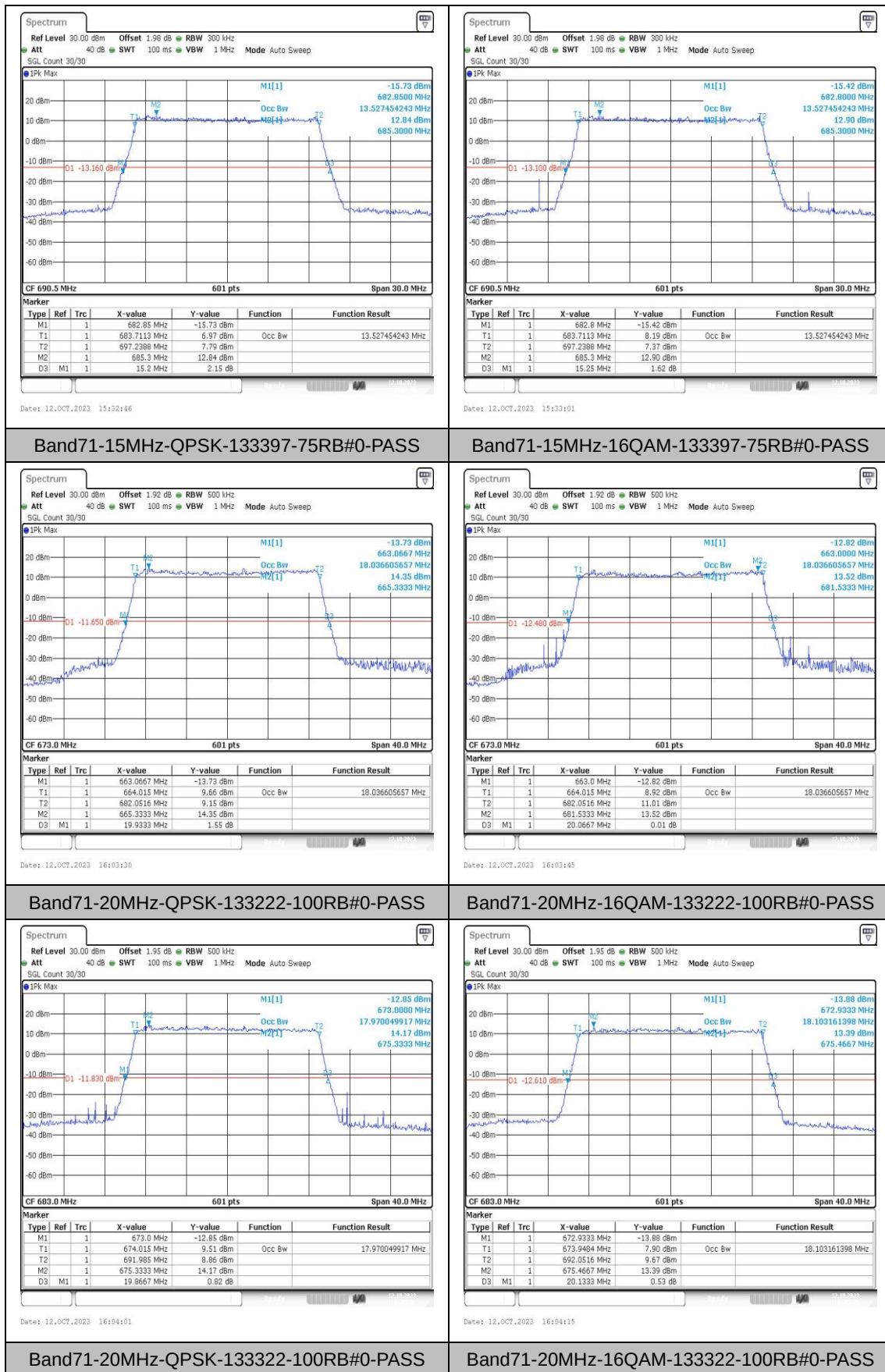
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band71	5MHz	QPSK	133147	25RB#0	4.525	5.18	PASS
Band71	5MHz	16QAM	133147	25RB#0	4.505	5.26	PASS
Band71	5MHz	QPSK	133297	25RB#0	4.535	5.19	PASS
Band71	5MHz	16QAM	133297	25RB#0	4.515	5.15	PASS
Band71	5MHz	QPSK	133447	25RB#0	4.535	5.22	PASS
Band71	5MHz	16QAM	133447	25RB#0	4.515	5.15	PASS
Band71	10MHz	QPSK	133172	50RB#0	8.985	10.20	PASS
Band71	10MHz	16QAM	133172	50RB#0	9.018	10.63	PASS
Band71	10MHz	QPSK	133297	50RB#0	8.985	10.27	PASS
Band71	10MHz	16QAM	133297	50RB#0	9.018	10.07	PASS
Band71	10MHz	QPSK	133422	50RB#0	9.018	10.23	PASS
Band71	10MHz	16QAM	133422	50RB#0	9.018	10.27	PASS
Band71	15MHz	QPSK	133197	75RB#0	13.527	15.25	PASS
Band71	15MHz	16QAM	133197	75RB#0	13.527	15.10	PASS
Band71	15MHz	QPSK	133297	75RB#0	13.478	15.15	PASS
Band71	15MHz	16QAM	133297	75RB#0	13.478	15.00	PASS
Band71	15MHz	QPSK	133397	75RB#0	13.527	15.20	PASS
Band71	15MHz	16QAM	133397	75RB#0	13.527	15.25	PASS
Band71	20MHz	QPSK	133222	100RB#0	18.037	19.93	PASS
Band71	20MHz	16QAM	133222	100RB#0	18.037	20.07	PASS
Band71	20MHz	QPSK	133322	100RB#0	17.97	19.87	PASS
Band71	20MHz	16QAM	133322	100RB#0	18.103	20.13	PASS
Band71	20MHz	QPSK	133372	100RB#0	18.103	20.07	PASS
Band71	20MHz	16QAM	133372	100RB#0	18.103	20.00	PASS

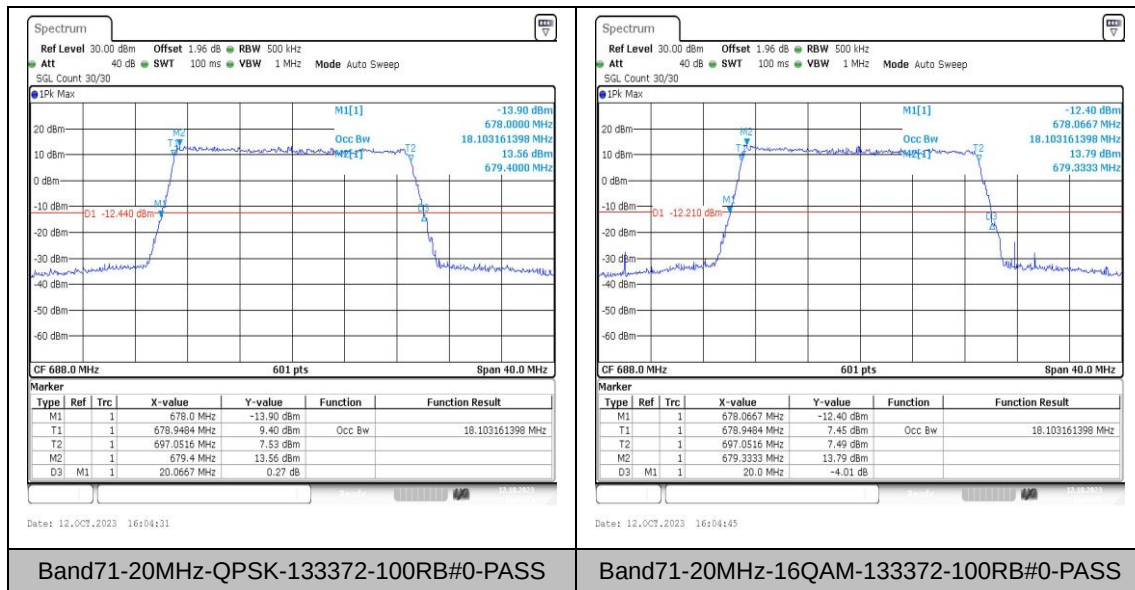
Test Graphs











Appendix D: Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band71	5MHz	QPSK	133147	1RB#0	-19.31	PASS
Band71	5MHz	16QAM	133147	1RB#0	-20.00	PASS
Band71	5MHz	QPSK	133147	1RB#24	-39.97	PASS
Band71	5MHz	16QAM	133147	1RB#24	-40.76	PASS
Band71	5MHz	QPSK	133147	25RB#0	-31.03	PASS
Band71	5MHz	16QAM	133147	25RB#0	-33.12	PASS
Band71	5MHz	QPSK	133447	1RB#0	-41.52	PASS
Band71	5MHz	16QAM	133447	1RB#0	-41.95	PASS
Band71	5MHz	QPSK	133447	1RB#24	-18.10	PASS
Band71	5MHz	16QAM	133447	1RB#24	-18.84	PASS
Band71	5MHz	QPSK	133447	25RB#0	-31.06	PASS
Band71	5MHz	16QAM	133447	25RB#0	-32.24	PASS
Band71	10MHz	QPSK	133172	1RB#0	-23.73	PASS
Band71	10MHz	16QAM	133172	1RB#0	-24.81	PASS
Band71	10MHz	QPSK	133172	1RB#49	-51.80	PASS
Band71	10MHz	16QAM	133172	1RB#49	-52.17	PASS
Band71	10MHz	QPSK	133172	50RB#0	-37.24	PASS
Band71	10MHz	16QAM	133172	50RB#0	-37.76	PASS
Band71	10MHz	QPSK	133422	1RB#0	-47.19	PASS
Band71	10MHz	16QAM	133422	1RB#0	-47.32	PASS

Band71	10MHz	QPSK	133422	1RB#49	-21.78	PASS
Band71	10MHz	16QAM	133422	1RB#49	-22.19	PASS
Band71	10MHz	QPSK	133422	50RB#0	-37.62	PASS
Band71	10MHz	16QAM	133422	50RB#0	-37.13	PASS
Band71	15MHz	QPSK	133197	1RB#0	-26.01	PASS
Band71	15MHz	16QAM	133197	1RB#0	-26.26	PASS
Band71	15MHz	QPSK	133197	1RB#74	-54.92	PASS
Band71	15MHz	16QAM	133197	1RB#74	-55.34	PASS
Band71	15MHz	QPSK	133197	75RB#0	-41.64	PASS
Band71	15MHz	16QAM	133197	75RB#0	-42.29	PASS
Band71	15MHz	QPSK	133397	1RB#0	-53.65	PASS
Band71	15MHz	16QAM	133397	1RB#0	-54.30	PASS
Band71	15MHz	QPSK	133397	1RB#74	-24.91	PASS
Band71	15MHz	16QAM	133397	1RB#74	-25.28	PASS
Band71	15MHz	QPSK	133397	75RB#0	-40.56	PASS
Band71	15MHz	16QAM	133397	75RB#0	-41.44	PASS
Band71	20MHz	QPSK	133222	1RB#0	-30.22	PASS
Band71	20MHz	16QAM	133222	1RB#0	-29.83	PASS
Band71	20MHz	QPSK	133222	1RB#99	-56.08	PASS
Band71	20MHz	16QAM	133222	1RB#99	-56.10	PASS
Band71	20MHz	QPSK	133222	100RB#0	-45.20	PASS
Band71	20MHz	16QAM	133222	100RB#0	-45.80	PASS
Band71	20MHz	QPSK	133372	1RB#0	-53.81	PASS
Band71	20MHz	16QAM	133372	1RB#0	-54.14	PASS
Band71	20MHz	QPSK	133372	1RB#99	-28.52	PASS
Band71	20MHz	16QAM	133372	1RB#99	-27.71	PASS
Band71	20MHz	QPSK	133372	100RB#0	-44.85	PASS
Band71	20MHz	16QAM	133372	100RB#0	-45.22	PASS

Test Graphs

