

Appendix for LTE Band 71

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
Band71	5MHz	QPSK	133147	1RB#0	20.93	PASS
Band71	5MHz	QPSK	133147	1RB#12	20.20	PASS
Band71	5MHz	QPSK	133147	1RB#24	20.38	PASS
Band71	5MHz	QPSK	133147	12RB#0	20.05	PASS
Band71	5MHz	QPSK	133147	12RB#6	20.06	PASS
Band71	5MHz	QPSK	133147	12RB#13	20.37	PASS
Band71	5MHz	QPSK	133147	25RB#0	21.77	PASS
Band71	5MHz	16QAM	133147	1RB#0	21.36	PASS
Band71	5MHz	16QAM	133147	1RB#12	21.71	PASS
Band71	5MHz	16QAM	133147	1RB#24	21.79	PASS
Band71	5MHz	16QAM	133147	12RB#0	21.10	PASS
Band71	5MHz	16QAM	133147	12RB#6	21.01	PASS
Band71	5MHz	16QAM	133147	12RB#13	21.31	PASS
Band71	5MHz	16QAM	133147	25RB#0	21.33	PASS
Band71	5MHz	QPSK	133297	1RB#0	21.40	PASS
Band71	5MHz	QPSK	133297	1RB#12	21.53	PASS
Band71	5MHz	QPSK	133297	1RB#24	21.39	PASS
Band71	5MHz	QPSK	133297	12RB#0	21.50	PASS
Band71	5MHz	QPSK	133297	12RB#6	21.52	PASS
Band71	5MHz	QPSK	133297	12RB#13	21.44	PASS
Band71	5MHz	QPSK	133297	25RB#0	21.97	PASS
Band71	5MHz	16QAM	133297	1RB#0	21.03	PASS
Band71	5MHz	16QAM	133297	1RB#12	21.08	PASS
Band71	5MHz	16QAM	133297	1RB#24	21.98	PASS
Band71	5MHz	16QAM	133297	12RB#0	21.43	PASS
Band71	5MHz	16QAM	133297	12RB#6	21.47	PASS
Band71	5MHz	16QAM	133297	12RB#13	21.32	PASS
Band71	5MHz	16QAM	133297	25RB#0	21.01	PASS
Band71	5MHz	QPSK	133447	1RB#0	21.46	PASS
Band71	5MHz	QPSK	133447	1RB#12	21.85	PASS
Band71	5MHz	QPSK	133447	1RB#24	21.09	PASS
Band71	5MHz	QPSK	133447	12RB#0	21.49	PASS
Band71	5MHz	QPSK	133447	12RB#6	21.50	PASS
Band71	5MHz	QPSK	133447	12RB#13	21.01	PASS
Band71	5MHz	QPSK	133447	25RB#0	21.45	PASS

Band71	5MHz	16QAM	133447	1RB#0	21.01	PASS
Band71	5MHz	16QAM	133447	1RB#12	21.30	PASS
Band71	5MHz	16QAM	133447	1RB#24	21.63	PASS
Band71	5MHz	16QAM	133447	12RB#0	21.53	PASS
Band71	5MHz	16QAM	133447	12RB#6	21.42	PASS
Band71	5MHz	16QAM	133447	12RB#13	21.10	PASS
Band71	5MHz	16QAM	133447	25RB#0	21.44	PASS
Band71	10MHz	QPSK	133172	1RB#0	21.99	PASS
Band71	10MHz	QPSK	133172	1RB#24	21.96	PASS
Band71	10MHz	QPSK	133172	1RB#49	21.34	PASS
Band71	10MHz	QPSK	133172	25RB#0	21.30	PASS
Band71	10MHz	QPSK	133172	25RB#12	21.25	PASS
Band71	10MHz	QPSK	133172	25RB#25	21.85	PASS
Band71	10MHz	QPSK	133172	50RB#0	21.99	PASS
Band71	10MHz	16QAM	133172	1RB#0	21.80	PASS
Band71	10MHz	16QAM	133172	1RB#24	21.42	PASS
Band71	10MHz	16QAM	133172	1RB#49	21.78	PASS
Band71	10MHz	16QAM	133172	25RB#0	21.37	PASS
Band71	10MHz	16QAM	133172	25RB#12	21.36	PASS
Band71	10MHz	16QAM	133172	25RB#25	21.02	PASS
Band71	10MHz	16QAM	133172	50RB#0	21.09	PASS
Band71	10MHz	QPSK	133297	1RB#0	21.32	PASS
Band71	10MHz	QPSK	133297	1RB#24	21.48	PASS
Band71	10MHz	QPSK	133297	1RB#49	21.47	PASS
Band71	10MHz	QPSK	133297	25RB#0	21.88	PASS
Band71	10MHz	QPSK	133297	25RB#12	21.96	PASS
Band71	10MHz	QPSK	133297	25RB#25	21.82	PASS
Band71	10MHz	QPSK	133297	50RB#0	21.01	PASS
Band71	10MHz	16QAM	133297	1RB#0	21.65	PASS
Band71	10MHz	16QAM	133297	1RB#24	21.29	PASS
Band71	10MHz	16QAM	133297	1RB#49	21.95	PASS
Band71	10MHz	16QAM	133297	25RB#0	21.21	PASS
Band71	10MHz	16QAM	133297	25RB#12	21.11	PASS
Band71	10MHz	16QAM	133297	25RB#25	21.85	PASS
Band71	10MHz	16QAM	133297	50RB#0	21.01	PASS
Band71	10MHz	QPSK	133422	1RB#0	21.82	PASS
Band71	10MHz	QPSK	133422	1RB#24	21.24	PASS
Band71	10MHz	QPSK	133422	1RB#49	21.57	PASS
Band71	10MHz	QPSK	133422	25RB#0	21.44	PASS
Band71	10MHz	QPSK	133422	25RB#12	21.43	PASS
Band71	10MHz	QPSK	133422	25RB#25	21.00	PASS
Band71	10MHz	QPSK	133422	50RB#0	21.30	PASS

Band71	10MHz	16QAM	133422	1RB#0	21.23	PASS
Band71	10MHz	16QAM	133422	1RB#24	21.76	PASS
Band71	10MHz	16QAM	133422	1RB#49	21.07	PASS
Band71	10MHz	16QAM	133422	25RB#0	21.41	PASS
Band71	10MHz	16QAM	133422	25RB#12	21.50	PASS
Band71	10MHz	16QAM	133422	25RB#25	21.04	PASS
Band71	10MHz	16QAM	133422	50RB#0	21.61	PASS
Band71	15MHz	QPSK	133197	1RB#0	21.11	PASS
Band71	15MHz	QPSK	133197	1RB#38	21.74	PASS
Band71	15MHz	QPSK	133197	1RB#74	21.14	PASS
Band71	15MHz	QPSK	133197	38RB#0	21.48	PASS
Band71	15MHz	QPSK	133197	38RB#18	21.11	PASS
Band71	15MHz	QPSK	133197	38RB#37	21.61	PASS
Band71	15MHz	QPSK	133197	75RB#0	21.07	PASS
Band71	15MHz	16QAM	133197	1RB#0	21.48	PASS
Band71	15MHz	16QAM	133197	1RB#38	21.31	PASS
Band71	15MHz	16QAM	133197	1RB#74	21.70	PASS
Band71	15MHz	16QAM	133197	38RB#0	21.35	PASS
Band71	15MHz	16QAM	133197	38RB#18	21.31	PASS
Band71	15MHz	16QAM	133197	38RB#37	21.27	PASS
Band71	15MHz	16QAM	133197	75RB#0	21.20	PASS
Band71	15MHz	QPSK	133297	1RB#0	21.45	PASS
Band71	15MHz	QPSK	133297	1RB#38	21.63	PASS
Band71	15MHz	QPSK	133297	1RB#74	21.52	PASS
Band71	15MHz	QPSK	133297	38RB#0	21.65	PASS
Band71	15MHz	QPSK	133297	38RB#18	21.08	PASS
Band71	15MHz	QPSK	133297	38RB#37	21.19	PASS
Band71	15MHz	QPSK	133297	75RB#0	21.49	PASS
Band71	15MHz	16QAM	133297	1RB#0	21.28	PASS
Band71	15MHz	16QAM	133297	1RB#38	21.15	PASS
Band71	15MHz	16QAM	133297	1RB#74	21.09	PASS
Band71	15MHz	16QAM	133297	38RB#0	21.60	PASS
Band71	15MHz	16QAM	133297	38RB#18	21.13	PASS
Band71	15MHz	16QAM	133297	38RB#37	21.98	PASS
Band71	15MHz	16QAM	133297	75RB#0	21.46	PASS
Band71	15MHz	QPSK	133397	1RB#0	21.17	PASS
Band71	15MHz	QPSK	133397	1RB#38	21.38	PASS
Band71	15MHz	QPSK	133397	1RB#74	21.73	PASS
Band71	15MHz	QPSK	133397	38RB#0	21.83	PASS
Band71	15MHz	QPSK	133397	38RB#18	21.09	PASS
Band71	15MHz	QPSK	133397	38RB#37	21.19	PASS
Band71	15MHz	QPSK	133397	75RB#0	21.68	PASS

Band71	15MHz	16QAM	133397	1RB#0	21.62	PASS
Band71	15MHz	16QAM	133397	1RB#38	21.02	PASS
Band71	15MHz	16QAM	133397	1RB#74	21.23	PASS
Band71	15MHz	16QAM	133397	38RB#0	21.68	PASS
Band71	15MHz	16QAM	133397	38RB#18	21.06	PASS
Band71	15MHz	16QAM	133397	38RB#37	21.31	PASS
Band71	15MHz	16QAM	133397	75RB#0	21.24	PASS
Band71	20MHz	QPSK	133222	1RB#0	21.08	PASS
Band71	20MHz	QPSK	133222	1RB#49	21.95	PASS
Band71	20MHz	QPSK	133222	1RB#99	21.10	PASS
Band71	20MHz	QPSK	133222	50RB#0	21.75	PASS
Band71	20MHz	QPSK	133222	50RB#25	21.72	PASS
Band71	20MHz	QPSK	133222	50RB#50	21.27	PASS
Band71	20MHz	QPSK	133222	100RB#0	21.71	PASS
Band71	20MHz	16QAM	133222	1RB#0	21.54	PASS
Band71	20MHz	16QAM	133222	1RB#49	21.47	PASS
Band71	20MHz	16QAM	133222	1RB#99	21.63	PASS
Band71	20MHz	16QAM	133222	50RB#0	21.84	PASS
Band71	20MHz	16QAM	133222	50RB#25	21.82	PASS
Band71	20MHz	16QAM	133222	50RB#50	21.32	PASS
Band71	20MHz	16QAM	133222	100RB#0	21.62	PASS
Band71	20MHz	QPSK	133322	1RB#0	21.45	PASS
Band71	20MHz	QPSK	133322	1RB#49	21.49	PASS
Band71	20MHz	QPSK	133322	1RB#99	21.08	PASS
Band71	20MHz	QPSK	133322	50RB#0	21.06	PASS
Band71	20MHz	QPSK	133322	50RB#25	21.96	PASS
Band71	20MHz	QPSK	133322	50RB#50	21.90	PASS
Band71	20MHz	QPSK	133322	100RB#0	21.13	PASS
Band71	20MHz	16QAM	133322	1RB#0	21.80	PASS
Band71	20MHz	16QAM	133322	1RB#49	21.11	PASS
Band71	20MHz	16QAM	133322	1RB#99	21.95	PASS
Band71	20MHz	16QAM	133322	50RB#0	21.05	PASS
Band71	20MHz	16QAM	133322	50RB#25	21.05	PASS
Band71	20MHz	16QAM	133322	50RB#50	21.75	PASS
Band71	20MHz	16QAM	133322	100RB#0	21.73	PASS
Band71	20MHz	QPSK	133372	1RB#0	21.29	PASS
Band71	20MHz	QPSK	133372	1RB#49	21.11	PASS
Band71	20MHz	QPSK	133372	1RB#99	21.36	PASS
Band71	20MHz	QPSK	133372	50RB#0	21.56	PASS
Band71	20MHz	QPSK	133372	50RB#25	21.54	PASS
Band71	20MHz	QPSK	133372	50RB#50	21.41	PASS
Band71	20MHz	QPSK	133372	100RB#0	21.36	PASS

Band71	20MHz	16QAM	133372	1RB#0	21.74	PASS
Band71	20MHz	16QAM	133372	1RB#49	21.58	PASS
Band71	20MHz	16QAM	133372	1RB#99	21.90	PASS
Band71	20MHz	16QAM	133372	50RB#0	21.43	PASS
Band71	20MHz	16QAM	133372	50RB#25	21.49	PASS
Band71	20MHz	16QAM	133372	50RB#50	21.42	PASS
Band71	20MHz	16QAM	133372	100RB#0	21.28	PASS

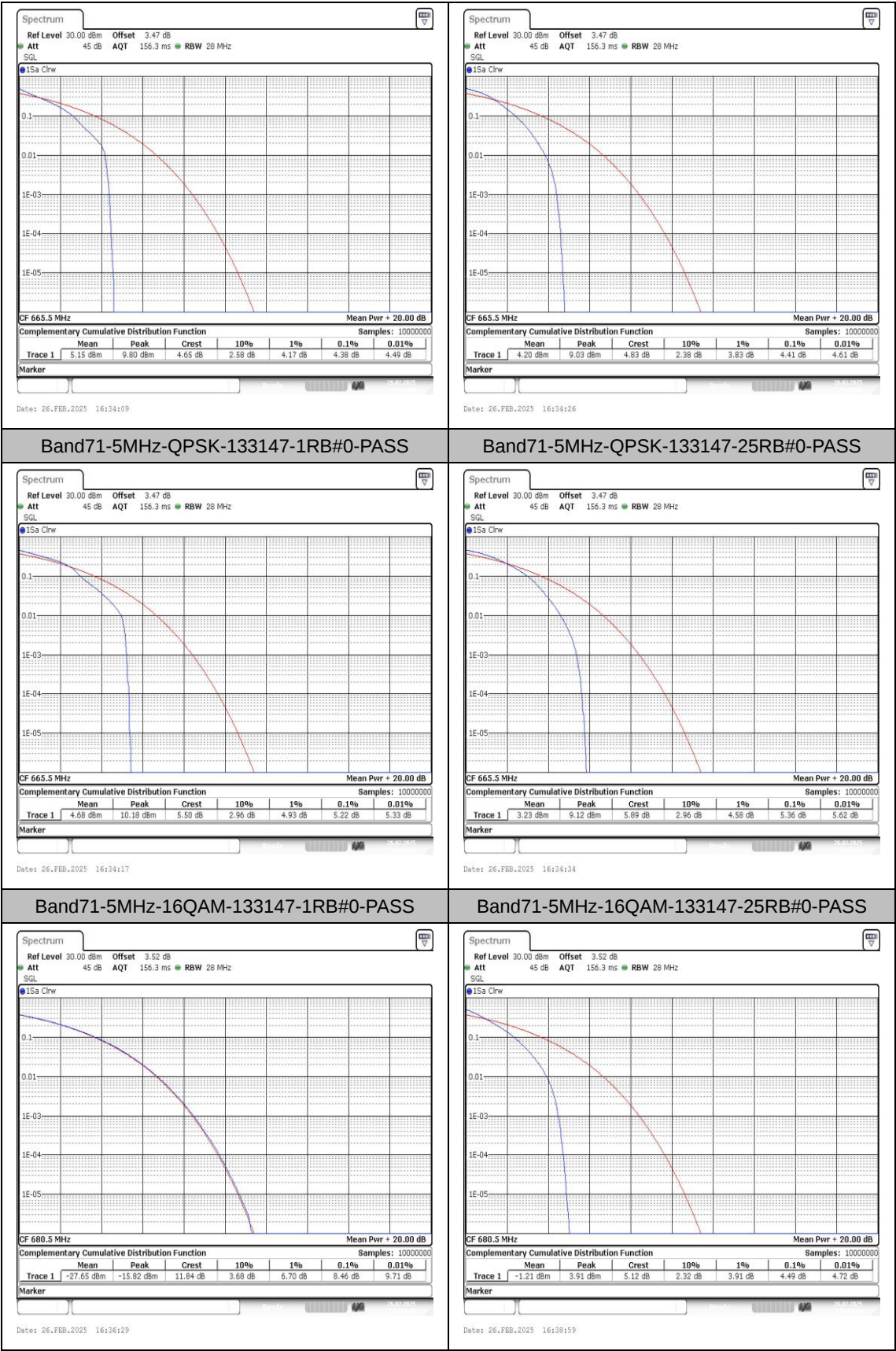
Appendix B: Peak-to-Average Ratio(CCDF)

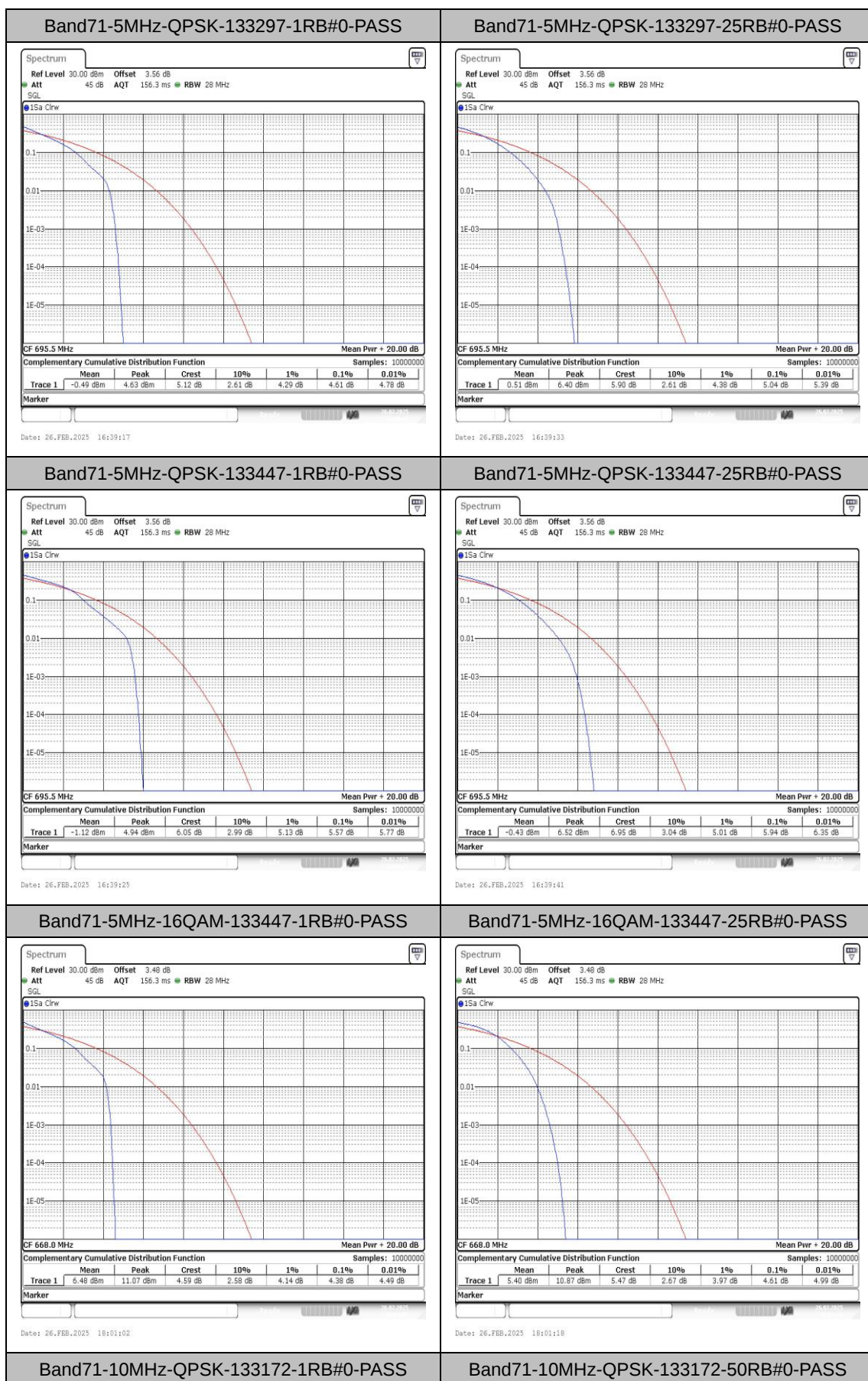
Test Result

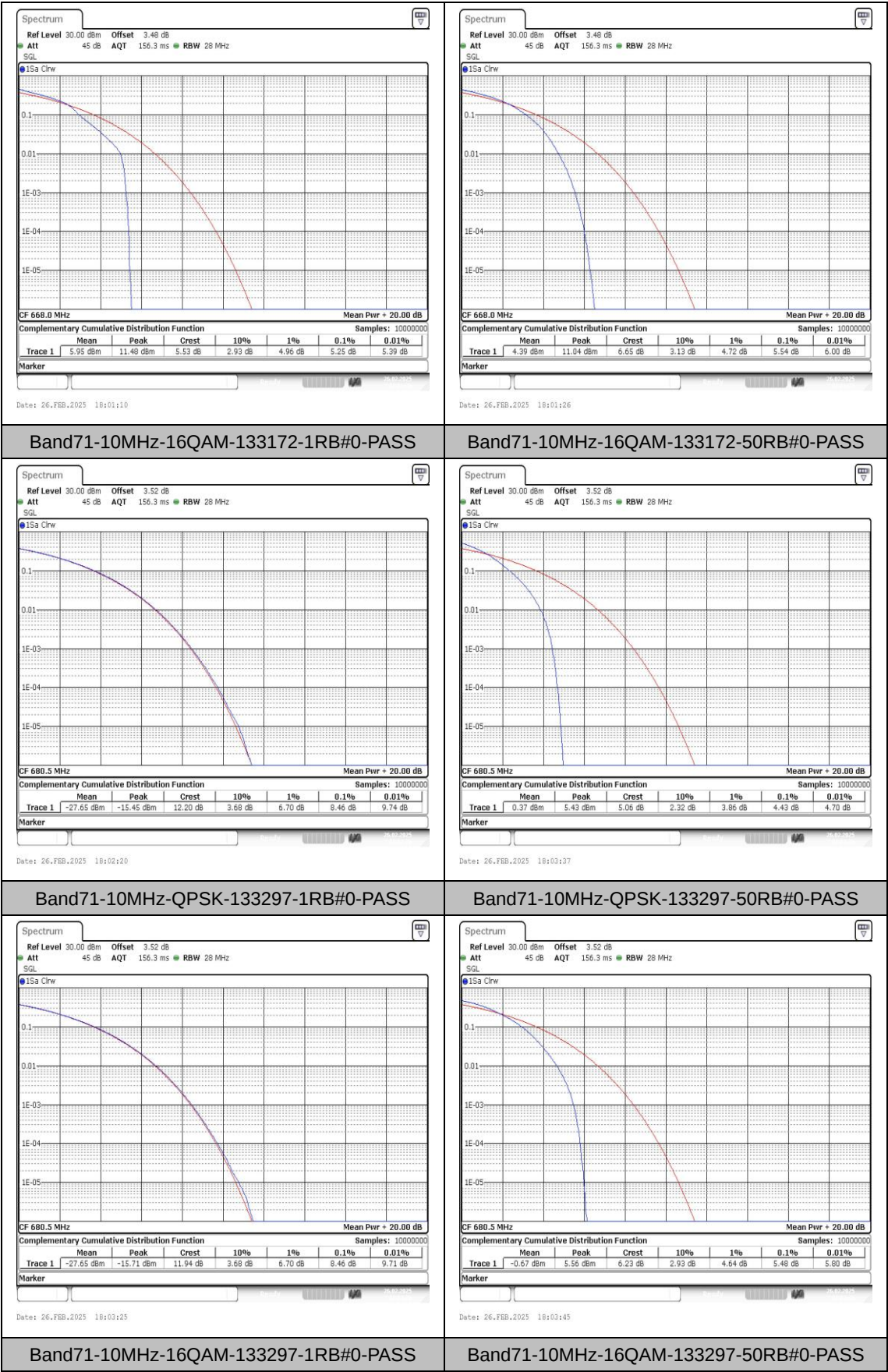
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band71	5MHz	QPSK	133147	1RB#0	4.38	13	PASS
Band71	5MHz	QPSK	133147	25RB#0	4.41	13	PASS
Band71	5MHz	16QAM	133147	1RB#0	5.22	13	PASS
Band71	5MHz	16QAM	133147	25RB#0	5.36	13	PASS
Band71	5MHz	QPSK	133297	1RB#0	8.46	13	PASS
Band71	5MHz	QPSK	133297	25RB#0	4.49	13	PASS
Band71	5MHz	QPSK	133447	1RB#0	4.61	13	PASS
Band71	5MHz	QPSK	133447	25RB#0	5.04	13	PASS
Band71	5MHz	16QAM	133447	1RB#0	5.57	13	PASS
Band71	5MHz	16QAM	133447	25RB#0	5.94	13	PASS
Band71	10MHz	QPSK	133172	1RB#0	4.38	13	PASS
Band71	10MHz	QPSK	133172	50RB#0	4.61	13	PASS
Band71	10MHz	16QAM	133172	1RB#0	5.25	13	PASS
Band71	10MHz	16QAM	133172	50RB#0	5.54	13	PASS
Band71	10MHz	QPSK	133297	1RB#0	8.46	13	PASS
Band71	10MHz	QPSK	133297	50RB#0	4.43	13	PASS
Band71	10MHz	16QAM	133297	1RB#0	8.46	13	PASS
Band71	10MHz	16QAM	133297	50RB#0	5.48	13	PASS
Band71	10MHz	QPSK	133422	1RB#0	4.58	13	PASS
Band71	10MHz	QPSK	133422	50RB#0	5.39	13	PASS
Band71	10MHz	16QAM	133422	1RB#0	5.48	13	PASS
Band71	10MHz	16QAM	133422	50RB#0	6.26	13	PASS
Band71	15MHz	QPSK	133297	1RB#0	4.49	13	PASS
Band71	15MHz	QPSK	133297	75RB#0	4.58	13	PASS
Band71	15MHz	16QAM	133297	1RB#0	5.39	13	PASS
Band71	15MHz	16QAM	133297	75RB#0	5.62	13	PASS
Band71	15MHz	QPSK	133397	1RB#0	3.62	13	PASS
Band71	15MHz	QPSK	133397	75RB#0	5.86	13	PASS
Band71	15MHz	16QAM	133397	1RB#0	4.29	13	PASS
Band71	15MHz	16QAM	133397	75RB#0	6.55	13	PASS
Band71	20MHz	QPSK	133222	1RB#0	4.46	13	PASS
Band71	20MHz	QPSK	133222	100RB#0	6.26	13	PASS
Band71	20MHz	16QAM	133222	1RB#0	5.30	13	PASS
Band71	20MHz	16QAM	133222	100RB#0	6.35	13	PASS
Band71	20MHz	QPSK	133322	1RB#0	4.72	13	PASS

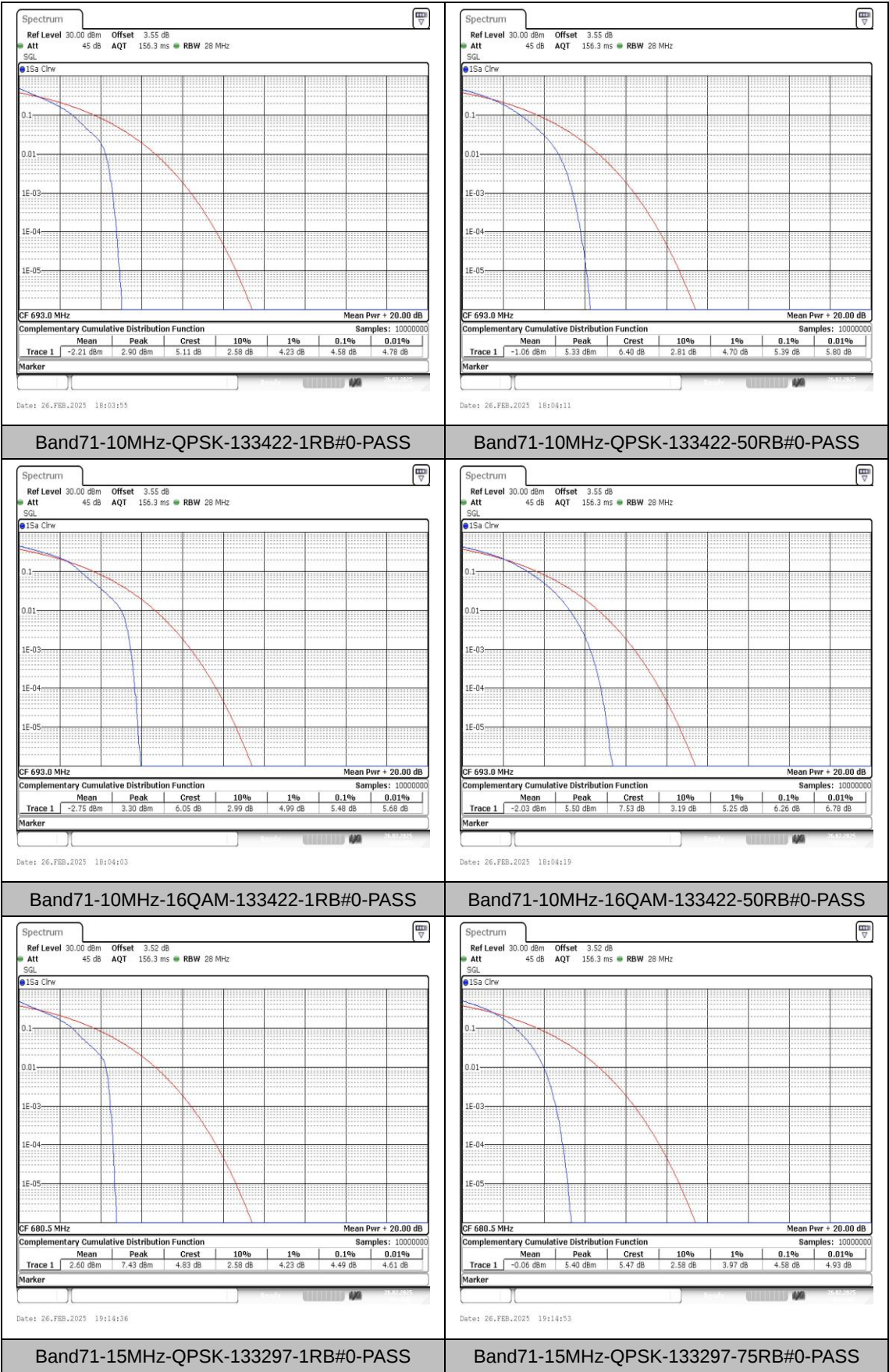
Band71	20MHz	QPSK	133322	100RB#0	4.96	13	PASS
Band71	20MHz	16QAM	133322	1RB#0	5.71	13	PASS
Band71	20MHz	16QAM	133322	100RB#0	5.83	13	PASS
Band71	20MHz	QPSK	133372	1RB#0	4.41	13	PASS
Band71	20MHz	QPSK	133372	100RB#0	5.48	13	PASS
Band71	20MHz	16QAM	133372	1RB#0	5.25	13	PASS
Band71	20MHz	16QAM	133372	100RB#0	6.20	13	PASS

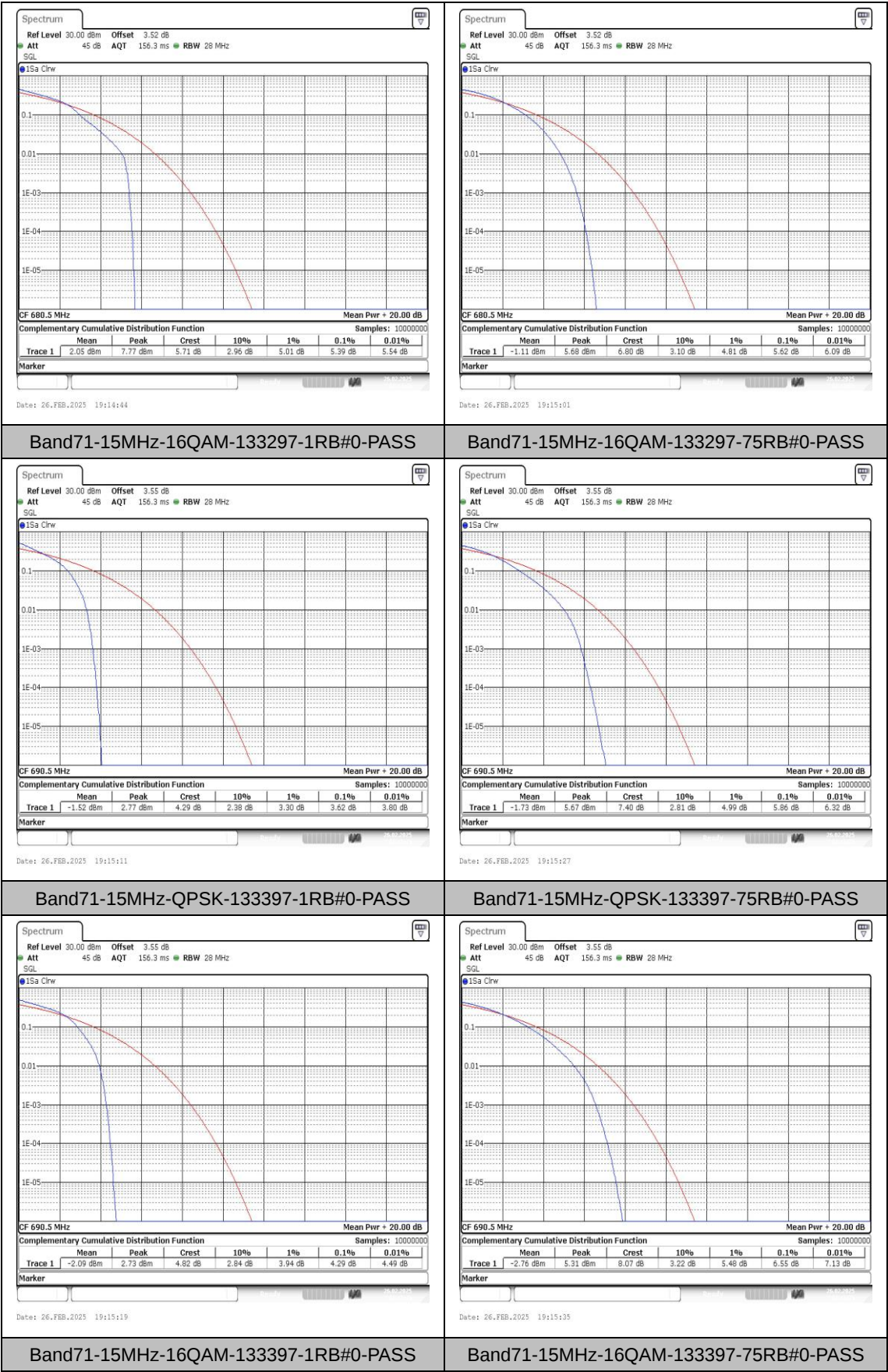
Test Graphs

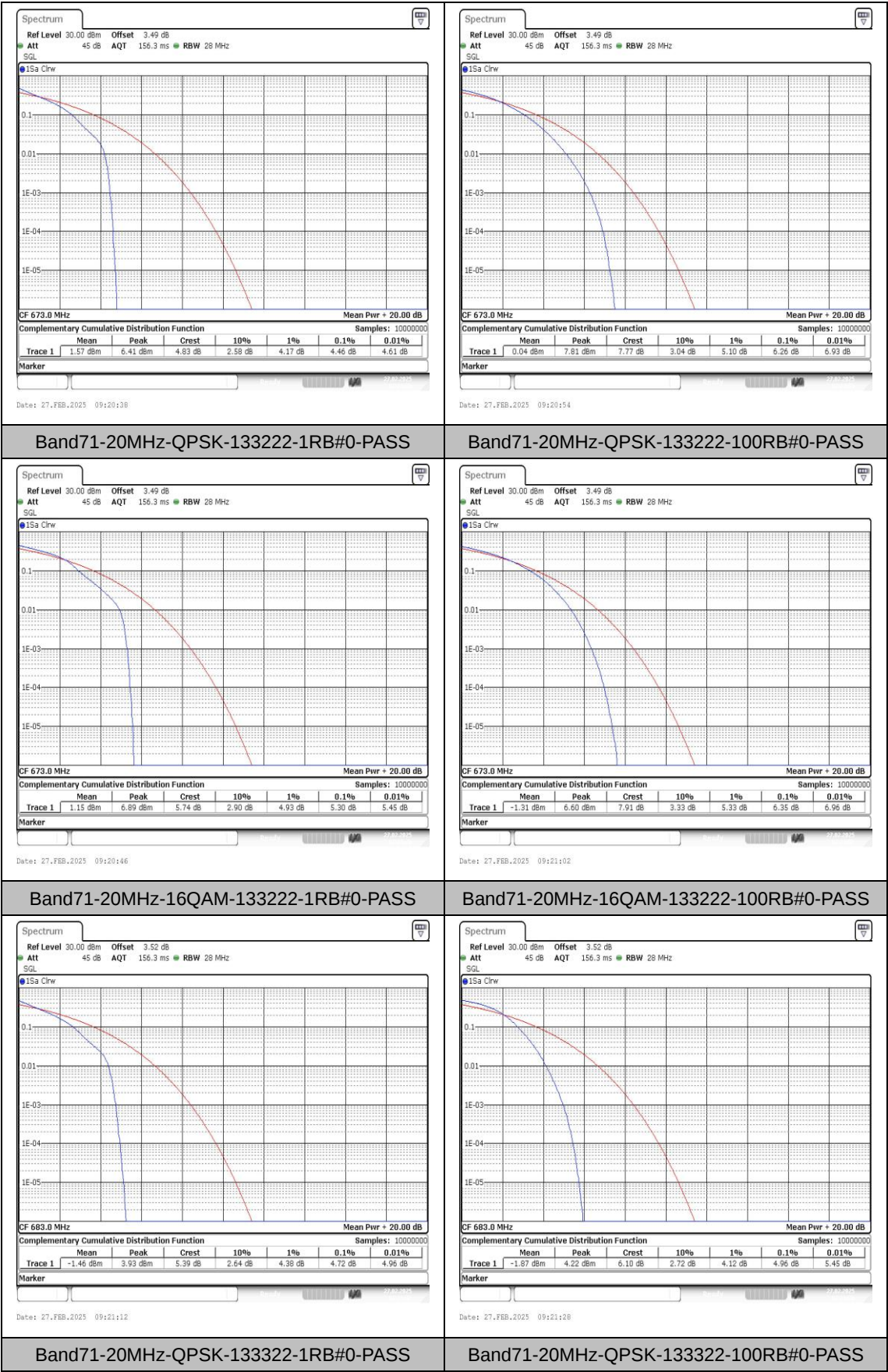


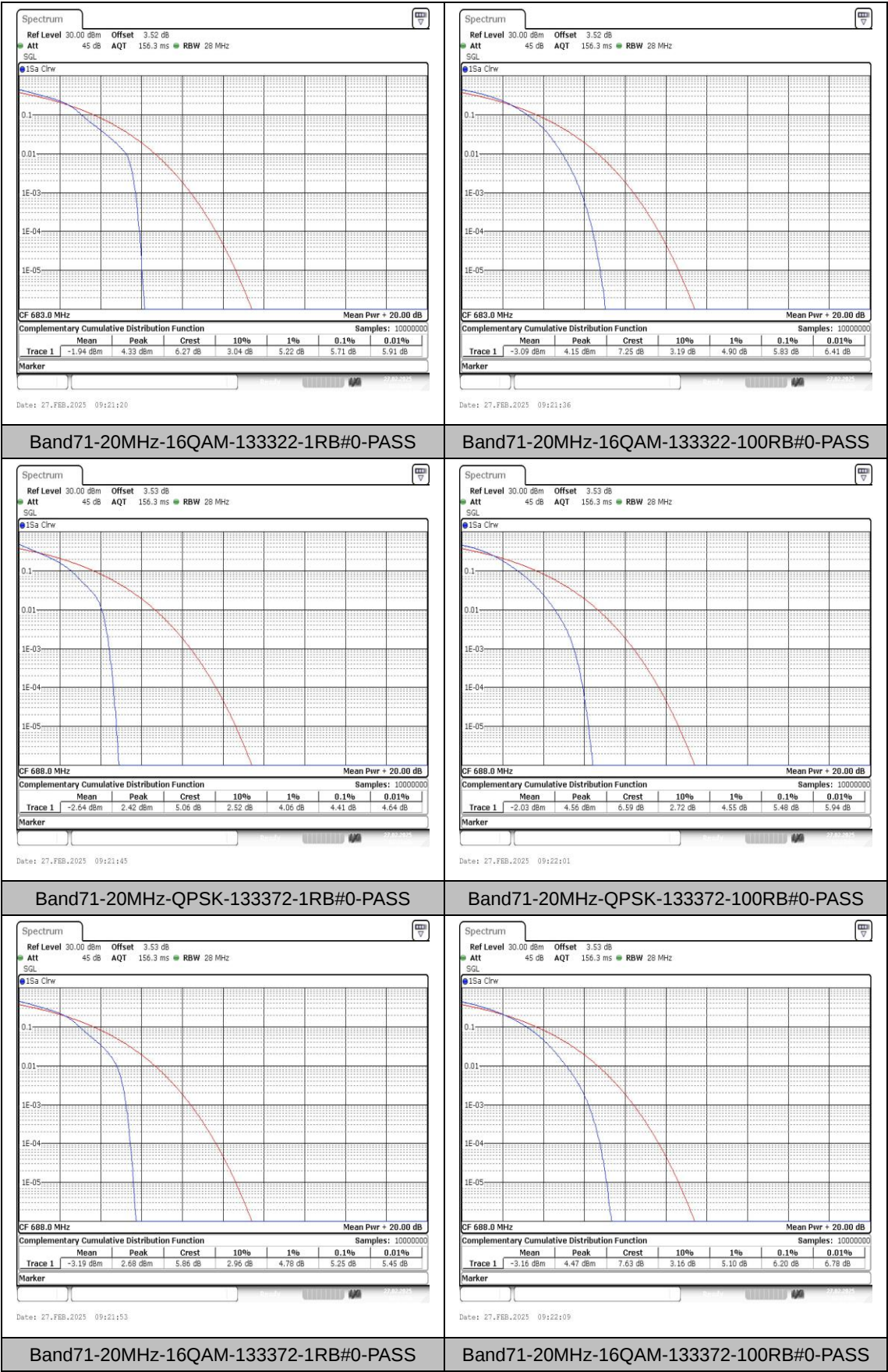










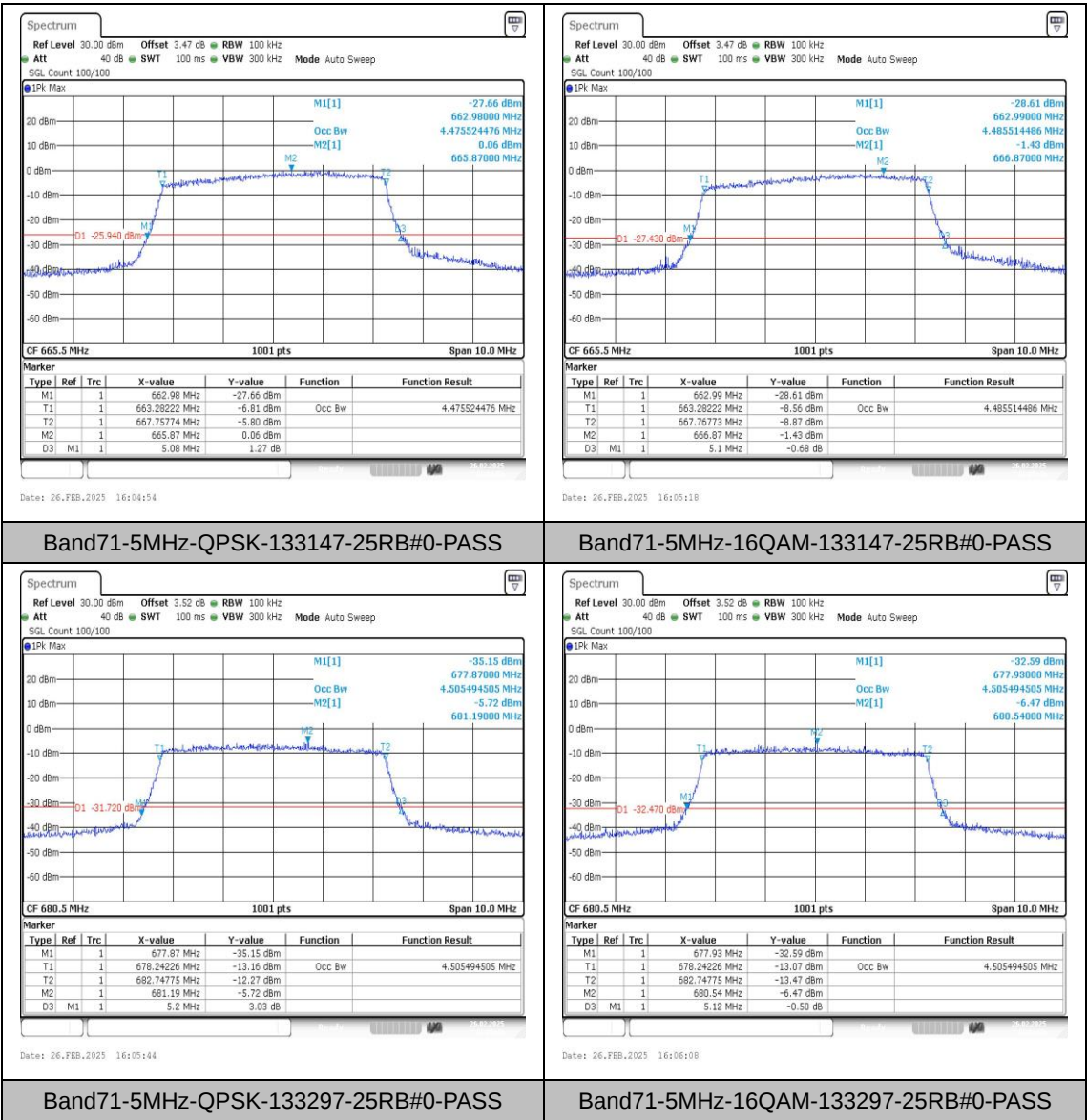


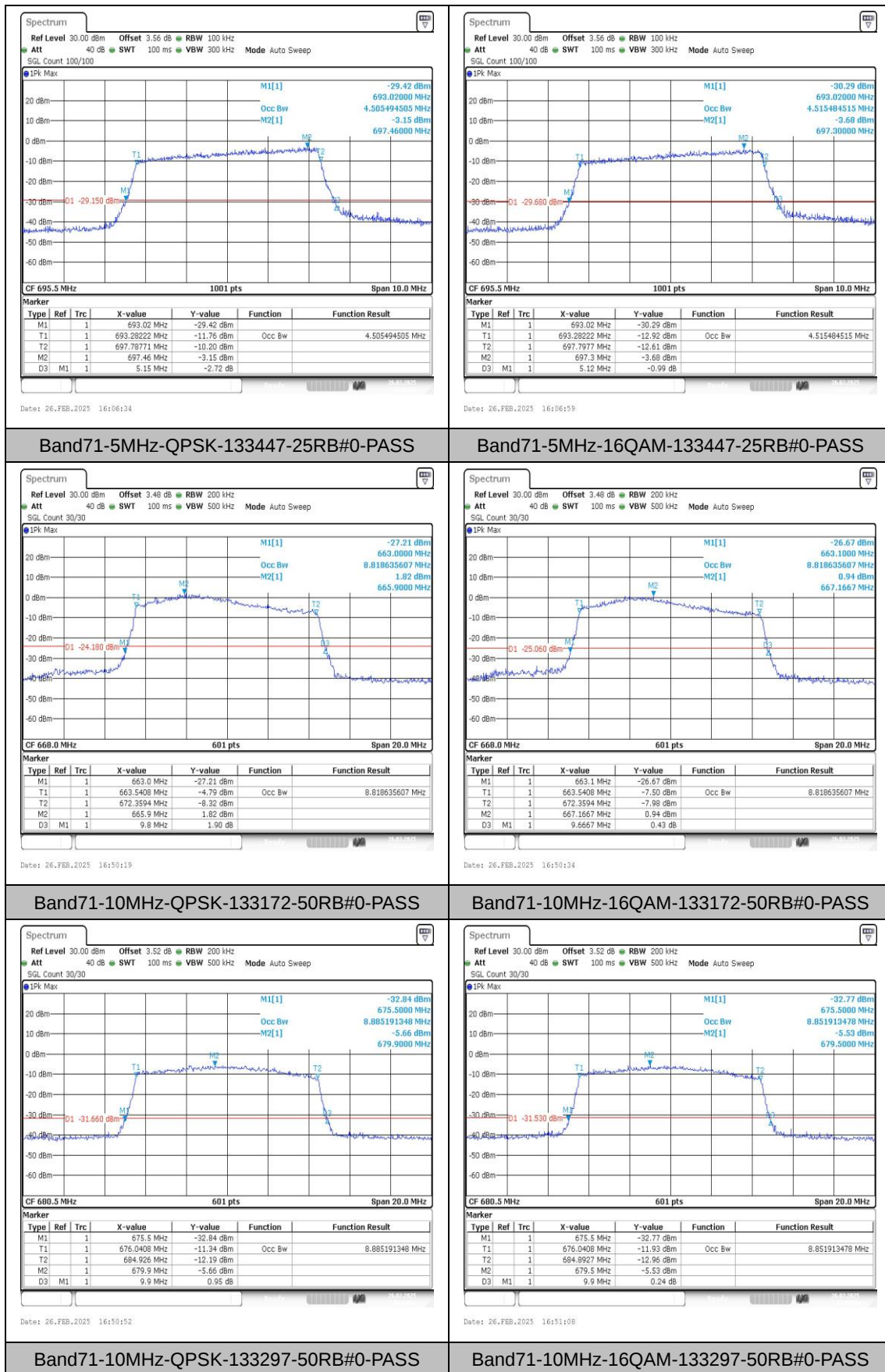
Appendix C: 26dB Bandwidth and Occupied Bandwidth

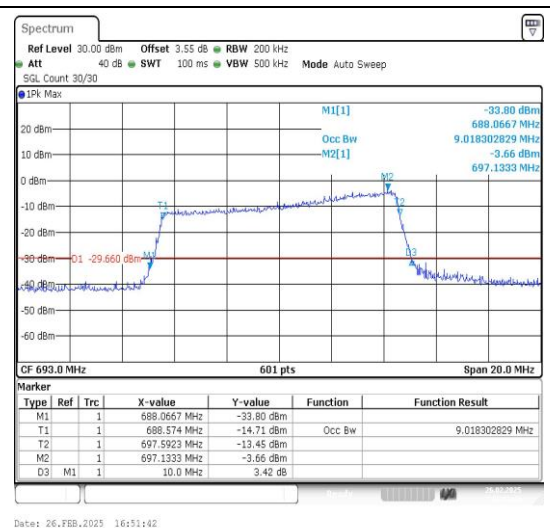
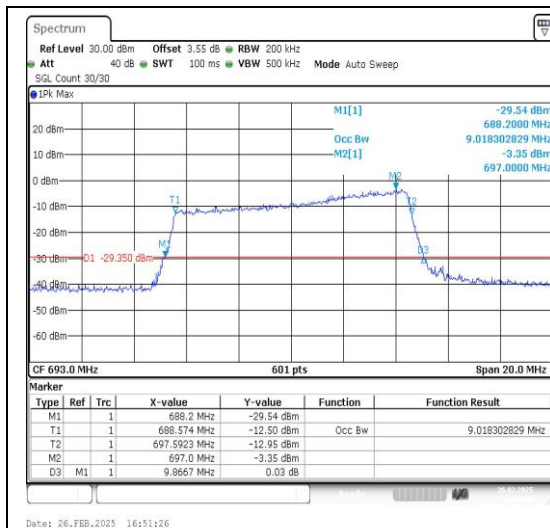
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band71	5MHz	QPSK	133147	25RB#0	4.476	5.08	PASS
Band71	5MHz	16QAM	133147	25RB#0	4.486	5.10	PASS
Band71	5MHz	QPSK	133297	25RB#0	4.505	5.20	PASS
Band71	5MHz	16QAM	133297	25RB#0	4.505	5.12	PASS
Band71	5MHz	QPSK	133447	25RB#0	4.505	5.15	PASS
Band71	5MHz	16QAM	133447	25RB#0	4.515	5.12	PASS
Band71	10MHz	QPSK	133172	50RB#0	8.819	9.80	PASS
Band71	10MHz	16QAM	133172	50RB#0	8.819	9.67	PASS
Band71	10MHz	QPSK	133297	50RB#0	8.885	9.90	PASS
Band71	10MHz	16QAM	133297	50RB#0	8.852	9.90	PASS
Band71	10MHz	QPSK	133422	50RB#0	9.018	9.87	PASS
Band71	10MHz	16QAM	133422	50RB#0	9.018	10.00	PASS
Band71	15MHz	QPSK	133197	75RB#0	13.428	14.65	PASS
Band71	15MHz	16QAM	133197	75RB#0	13.428	14.65	PASS
Band71	15MHz	QPSK	133297	75RB#0	13.378	14.75	PASS
Band71	15MHz	16QAM	133297	75RB#0	13.278	14.90	PASS
Band71	15MHz	QPSK	133397	75RB#0	13.677	15.20	PASS
Band71	15MHz	16QAM	133397	75RB#0	13.727	15.10	PASS
Band71	20MHz	QPSK	133222	100RB#0	17.97	19.53	PASS
Band71	20MHz	16QAM	133222	100RB#0	17.97	19.67	PASS
Band71	20MHz	QPSK	133322	100RB#0	17.903	19.80	PASS
Band71	20MHz	16QAM	133322	100RB#0	17.903	19.60	PASS
Band71	20MHz	QPSK	133372	100RB#0	18.369	20.27	PASS
Band71	20MHz	16QAM	133372	100RB#0	18.303	20.07	PASS

Test Graphs

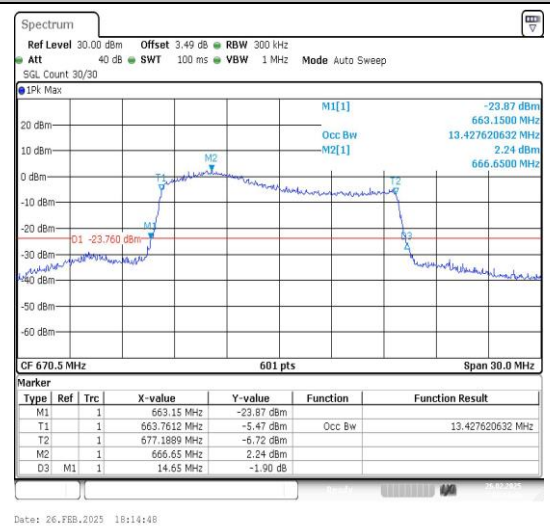
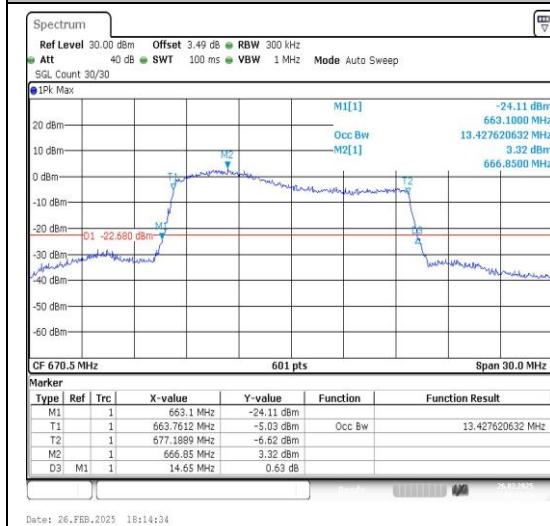






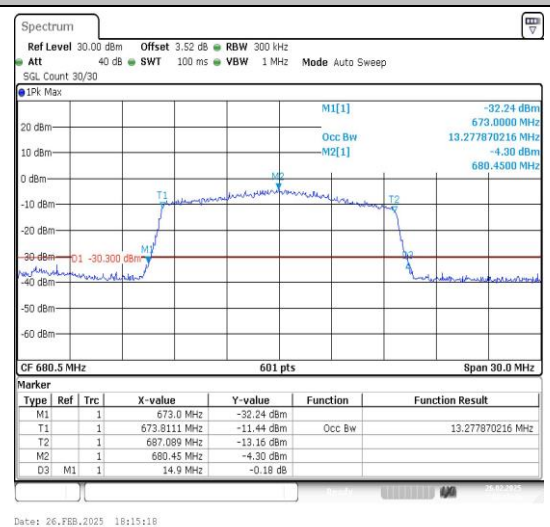
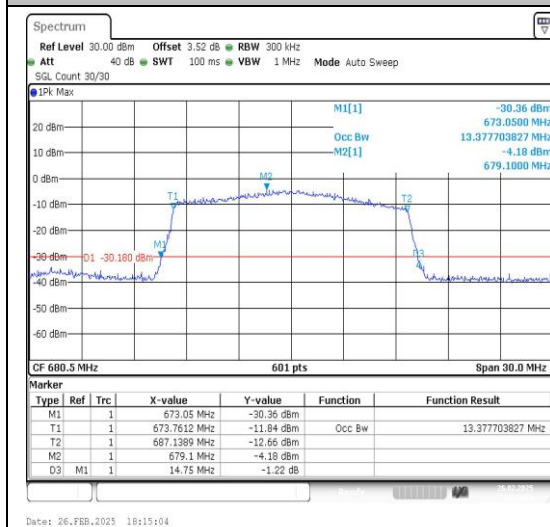
Band71-10MHz-QPSK-133422-50RB#0-PASS

Band71-10MHz-16QAM-133422-50RB#0-PASS



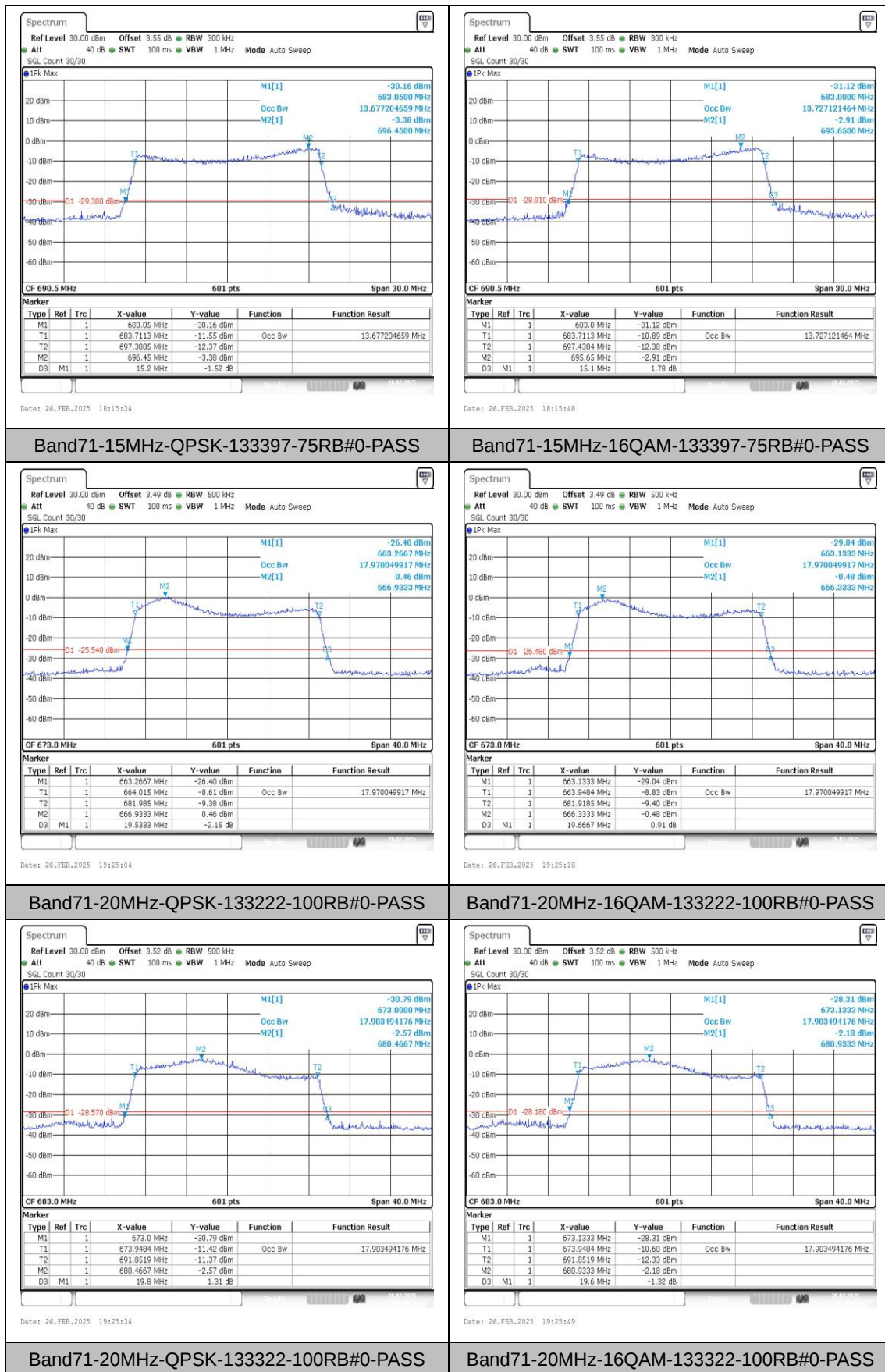
Band71-15MHz-QPSK-133197-75RB#0-PASS

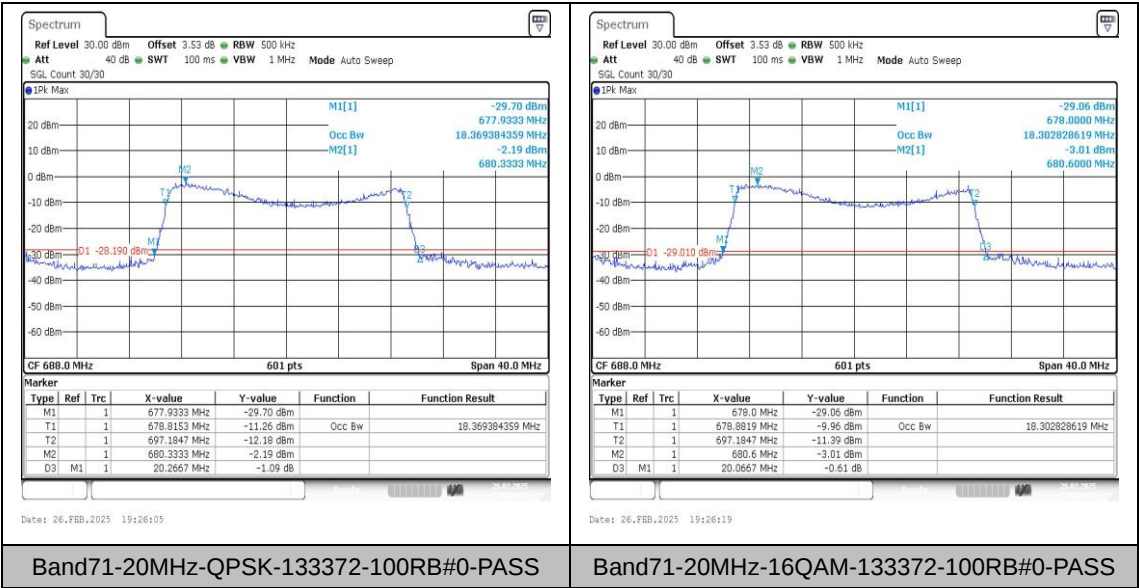
Band71-15MHz-16QAM-133197-75RB#0-PASS



Band71-15MHz-QPSK-133297-75RB#0-PASS

Band71-15MHz-16QAM-133297-75RB#0-PASS





Appendix D: Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band71	5MHz	QPSK	133147	1RB#0	-40.94	PASS
Band71	5MHz	QPSK	133147	1RB#24	-54.30	PASS
Band71	5MHz	QPSK	133147	25RB#0	-45.88	PASS
Band71	5MHz	16QAM	133147	1RB#0	-42.74	PASS
Band71	5MHz	16QAM	133147	1RB#24	-54.32	PASS
Band71	5MHz	16QAM	133147	25RB#0	-47.03	PASS
Band71	5MHz	QPSK	133447	1RB#0	-54.06	PASS
Band71	5MHz	QPSK	133447	1RB#24	-43.41	PASS
Band71	5MHz	QPSK	133447	25RB#0	-44.93	PASS
Band71	5MHz	16QAM	133447	1RB#0	-54.15	PASS
Band71	5MHz	16QAM	133447	1RB#24	-44.95	PASS
Band71	5MHz	16QAM	133447	25RB#0	-45.75	PASS
Band71	10MHz	QPSK	133172	1RB#0	-51.42	PASS
Band71	10MHz	QPSK	133172	1RB#49	-54.30	PASS
Band71	10MHz	QPSK	133172	50RB#0	-46.72	PASS
Band71	10MHz	16QAM	133172	1RB#0	-51.43	PASS
Band71	10MHz	16QAM	133172	1RB#49	-54.32	PASS
Band71	10MHz	16QAM	133172	50RB#0	-48.95	PASS
Band71	10MHz	QPSK	133422	50RB#0	-49.16	PASS
Band71	10MHz	16QAM	133422	1RB#0	-54.17	PASS
Band71	10MHz	16QAM	133422	1RB#49	-53.49	PASS
Band71	10MHz	16QAM	133422	50RB#0	-49.75	PASS
Band71	15MHz	QPSK	133197	1RB#0	-51.35	PASS
Band71	15MHz	QPSK	133197	1RB#74	-54.34	PASS
Band71	15MHz	QPSK	133197	75RB#0	-49.28	PASS
Band71	15MHz	16QAM	133197	1RB#0	-51.70	PASS
Band71	15MHz	16QAM	133197	1RB#74	-54.27	PASS
Band71	15MHz	16QAM	133197	75RB#0	-50.57	PASS
Band71	15MHz	QPSK	133397	1RB#0	-54.02	PASS
Band71	15MHz	QPSK	133397	1RB#74	-51.23	PASS
Band71	15MHz	QPSK	133397	75RB#0	-48.19	PASS
Band71	15MHz	16QAM	133397	1RB#0	-54.13	PASS
Band71	15MHz	16QAM	133397	1RB#74	-52.07	PASS
Band71	15MHz	16QAM	133397	75RB#0	-50.18	PASS
Band71	20MHz	QPSK	133222	1RB#0	-52.71	PASS
Band71	20MHz	QPSK	133222	1RB#99	-54.21	PASS

Band71	20MHz	QPSK	133222	100RB#0	-52.44	PASS
Band71	20MHz	16QAM	133222	1RB#0	-53.19	PASS
Band71	20MHz	16QAM	133222	1RB#99	-54.20	PASS
Band71	20MHz	16QAM	133222	100RB#0	-53.07	PASS
Band71	20MHz	QPSK	133372	1RB#0	-54.09	PASS
Band71	20MHz	QPSK	133372	1RB#99	-52.35	PASS
Band71	20MHz	QPSK	133372	100RB#0	-49.18	PASS
Band71	20MHz	16QAM	133372	1RB#0	-54.17	PASS
Band71	20MHz	16QAM	133372	1RB#99	-52.77	PASS
Band71	20MHz	16QAM	133372	100RB#0	-50.95	PASS

Test Graphs

