

Appendix for LTE Band 41

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
Band41	5MHz	QPSK	39675	1RB#0	20.57	PASS
Band41	5MHz	QPSK	39675	1RB#12	20.49	PASS
Band41	5MHz	QPSK	39675	1RB#24	20.38	PASS
Band41	5MHz	QPSK	39675	12RB#0	19.66	PASS
Band41	5MHz	QPSK	39675	12RB#6	19.62	PASS
Band41	5MHz	QPSK	39675	12RB#13	19.48	PASS
Band41	5MHz	QPSK	39675	25RB#0	19.53	PASS
Band41	5MHz	16QAM	39675	1RB#0	19.65	PASS
Band41	5MHz	16QAM	39675	1RB#12	19.69	PASS
Band41	5MHz	16QAM	39675	1RB#24	19.51	PASS
Band41	5MHz	16QAM	39675	12RB#0	18.57	PASS
Band41	5MHz	16QAM	39675	12RB#6	18.49	PASS
Band41	5MHz	16QAM	39675	12RB#13	18.53	PASS
Band41	5MHz	16QAM	39675	25RB#0	18.60	PASS
Band41	5MHz	QPSK	40620	1RB#0	20.50	PASS
Band41	5MHz	QPSK	40620	1RB#12	20.63	PASS
Band41	5MHz	QPSK	40620	1RB#24	20.54	PASS
Band41	5MHz	QPSK	40620	12RB#0	19.70	PASS
Band41	5MHz	QPSK	40620	12RB#6	19.66	PASS
Band41	5MHz	QPSK	40620	12RB#13	19.69	PASS
Band41	5MHz	QPSK	40620	25RB#0	19.67	PASS
Band41	5MHz	16QAM	40620	1RB#0	19.63	PASS
Band41	5MHz	16QAM	40620	1RB#12	19.75	PASS
Band41	5MHz	16QAM	40620	1RB#24	19.58	PASS
Band41	5MHz	16QAM	40620	12RB#0	19.76	PASS
Band41	5MHz	16QAM	40620	12RB#6	19.76	PASS
Band41	5MHz	16QAM	40620	12RB#13	19.67	PASS
Band41	5MHz	16QAM	40620	25RB#0	19.71	PASS
Band41	5MHz	QPSK	41565	1RB#0	21.17	PASS
Band41	5MHz	QPSK	41565	1RB#12	21.24	PASS
Band41	5MHz	QPSK	41565	1RB#24	21.05	PASS
Band41	5MHz	QPSK	41565	12RB#0	20.29	PASS
Band41	5MHz	QPSK	41565	12RB#6	20.31	PASS
Band41	5MHz	QPSK	41565	12RB#13	20.31	PASS
Band41	5MHz	QPSK	41565	25RB#0	20.25	PASS

Band41	5MHz	16QAM	41565	1RB#0	20.10	PASS
Band41	5MHz	16QAM	41565	1RB#12	20.22	PASS
Band41	5MHz	16QAM	41565	1RB#24	20.07	PASS
Band41	5MHz	16QAM	41565	12RB#0	19.34	PASS
Band41	5MHz	16QAM	41565	12RB#6	19.38	PASS
Band41	5MHz	16QAM	41565	12RB#13	19.29	PASS
Band41	5MHz	16QAM	41565	25RB#0	19.30	PASS
Band41	10MHz	QPSK	39700	1RB#0	20.43	PASS
Band41	10MHz	QPSK	39700	1RB#24	20.35	PASS
Band41	10MHz	QPSK	39700	1RB#49	20.11	PASS
Band41	10MHz	QPSK	39700	25RB#0	19.56	PASS
Band41	10MHz	QPSK	39700	25RB#12	19.53	PASS
Band41	10MHz	QPSK	39700	25RB#25	19.30	PASS
Band41	10MHz	QPSK	39700	50RB#0	19.41	PASS
Band41	10MHz	16QAM	39700	1RB#0	19.69	PASS
Band41	10MHz	16QAM	39700	1RB#24	19.63	PASS
Band41	10MHz	16QAM	39700	1RB#49	19.22	PASS
Band41	10MHz	16QAM	39700	25RB#0	18.56	PASS
Band41	10MHz	16QAM	39700	25RB#12	18.61	PASS
Band41	10MHz	16QAM	39700	25RB#25	18.35	PASS
Band41	10MHz	16QAM	39700	50RB#0	18.41	PASS
Band41	10MHz	QPSK	40620	1RB#0	20.53	PASS
Band41	10MHz	QPSK	40620	1RB#24	20.46	PASS
Band41	10MHz	QPSK	40620	1RB#49	20.54	PASS
Band41	10MHz	QPSK	40620	25RB#0	19.63	PASS
Band41	10MHz	QPSK	40620	25RB#12	19.60	PASS
Band41	10MHz	QPSK	40620	25RB#25	19.69	PASS
Band41	10MHz	QPSK	40620	50RB#0	19.65	PASS
Band41	10MHz	16QAM	40620	1RB#0	19.66	PASS
Band41	10MHz	16QAM	40620	1RB#24	19.83	PASS
Band41	10MHz	16QAM	40620	1RB#49	19.60	PASS
Band41	10MHz	16QAM	40620	25RB#0	19.63	PASS
Band41	10MHz	16QAM	40620	25RB#12	19.58	PASS
Band41	10MHz	16QAM	40620	25RB#25	19.69	PASS
Band41	10MHz	16QAM	40620	50RB#0	19.67	PASS
Band41	10MHz	QPSK	41540	1RB#0	21.22	PASS
Band41	10MHz	QPSK	41540	1RB#24	21.25	PASS
Band41	10MHz	QPSK	41540	1RB#49	21.19	PASS
Band41	10MHz	QPSK	41540	25RB#0	20.35	PASS
Band41	10MHz	QPSK	41540	25RB#12	20.34	PASS
Band41	10MHz	QPSK	41540	25RB#25	20.23	PASS
Band41	10MHz	QPSK	41540	50RB#0	20.33	PASS

Band41	10MHz	16QAM	41540	1RB#0	20.40	PASS
Band41	10MHz	16QAM	41540	1RB#24	20.29	PASS
Band41	10MHz	16QAM	41540	1RB#49	20.28	PASS
Band41	10MHz	16QAM	41540	25RB#0	19.40	PASS
Band41	10MHz	16QAM	41540	25RB#12	19.38	PASS
Band41	10MHz	16QAM	41540	25RB#25	19.24	PASS
Band41	10MHz	16QAM	41540	50RB#0	19.29	PASS
Band41	15MHz	QPSK	39725	1RB#0	20.31	PASS
Band41	15MHz	QPSK	39725	1RB#38	20.09	PASS
Band41	15MHz	QPSK	39725	1RB#74	19.91	PASS
Band41	15MHz	QPSK	39725	38RB#0	19.28	PASS
Band41	15MHz	QPSK	39725	38RB#18	19.26	PASS
Band41	15MHz	QPSK	39725	38RB#37	19.24	PASS
Band41	15MHz	QPSK	39725	75RB#0	19.27	PASS
Band41	15MHz	16QAM	39725	1RB#0	19.53	PASS
Band41	15MHz	16QAM	39725	1RB#38	19.28	PASS
Band41	15MHz	16QAM	39725	1RB#74	19.10	PASS
Band41	15MHz	16QAM	39725	38RB#0	19.30	PASS
Band41	15MHz	16QAM	39725	38RB#18	19.31	PASS
Band41	15MHz	16QAM	39725	38RB#37	19.28	PASS
Band41	15MHz	16QAM	39725	75RB#0	18.23	PASS
Band41	15MHz	QPSK	40620	1RB#0	20.24	PASS
Band41	15MHz	QPSK	40620	1RB#38	20.32	PASS
Band41	15MHz	QPSK	40620	1RB#74	20.42	PASS
Band41	15MHz	QPSK	40620	38RB#0	19.52	PASS
Band41	15MHz	QPSK	40620	38RB#18	19.54	PASS
Band41	15MHz	QPSK	40620	38RB#37	19.52	PASS
Band41	15MHz	QPSK	40620	75RB#0	19.56	PASS
Band41	15MHz	16QAM	40620	1RB#0	19.50	PASS
Band41	15MHz	16QAM	40620	1RB#38	19.42	PASS
Band41	15MHz	16QAM	40620	1RB#74	19.70	PASS
Band41	15MHz	16QAM	40620	38RB#0	19.54	PASS
Band41	15MHz	16QAM	40620	38RB#18	19.50	PASS
Band41	15MHz	16QAM	40620	38RB#37	19.52	PASS
Band41	15MHz	16QAM	40620	75RB#0	18.52	PASS
Band41	15MHz	QPSK	41515	1RB#0	21.04	PASS
Band41	15MHz	QPSK	41515	1RB#38	21.03	PASS
Band41	15MHz	QPSK	41515	1RB#74	21.05	PASS
Band41	15MHz	QPSK	41515	38RB#0	20.17	PASS
Band41	15MHz	QPSK	41515	38RB#18	20.20	PASS
Band41	15MHz	QPSK	41515	38RB#37	20.21	PASS
Band41	15MHz	QPSK	41515	75RB#0	20.19	PASS

Band41	15MHz	16QAM	41515	1RB#0	20.06	PASS
Band41	15MHz	16QAM	41515	1RB#38	20.16	PASS
Band41	15MHz	16QAM	41515	1RB#74	20.16	PASS
Band41	15MHz	16QAM	41515	38RB#0	20.21	PASS
Band41	15MHz	16QAM	41515	38RB#18	20.18	PASS
Band41	15MHz	16QAM	41515	38RB#37	20.23	PASS
Band41	15MHz	16QAM	41515	75RB#0	19.17	PASS
Band41	20MHz	QPSK	39750	1RB#0	20.31	PASS
Band41	20MHz	QPSK	39750	1RB#49	20.09	PASS
Band41	20MHz	QPSK	39750	1RB#99	19.86	PASS
Band41	20MHz	QPSK	39750	50RB#0	19.38	PASS
Band41	20MHz	QPSK	39750	50RB#25	19.36	PASS
Band41	20MHz	QPSK	39750	50RB#50	19.06	PASS
Band41	20MHz	QPSK	39750	100RB#0	19.23	PASS
Band41	20MHz	16QAM	39750	1RB#0	19.20	PASS
Band41	20MHz	16QAM	39750	1RB#49	19.03	PASS
Band41	20MHz	16QAM	39750	1RB#99	18.85	PASS
Band41	20MHz	16QAM	39750	50RB#0	18.37	PASS
Band41	20MHz	16QAM	39750	50RB#25	18.33	PASS
Band41	20MHz	16QAM	39750	50RB#50	18.10	PASS
Band41	20MHz	16QAM	39750	100RB#0	18.28	PASS
Band41	20MHz	QPSK	40620	1RB#0	20.37	PASS
Band41	20MHz	QPSK	40620	1RB#49	20.32	PASS
Band41	20MHz	QPSK	40620	1RB#99	20.48	PASS
Band41	20MHz	QPSK	40620	50RB#0	19.51	PASS
Band41	20MHz	QPSK	40620	50RB#25	19.41	PASS
Band41	20MHz	QPSK	40620	50RB#50	19.40	PASS
Band41	20MHz	QPSK	40620	100RB#0	19.49	PASS
Band41	20MHz	16QAM	40620	1RB#0	19.31	PASS
Band41	20MHz	16QAM	40620	1RB#49	19.38	PASS
Band41	20MHz	16QAM	40620	1RB#99	19.21	PASS
Band41	20MHz	16QAM	40620	50RB#0	19.50	PASS
Band41	20MHz	16QAM	40620	50RB#25	19.50	PASS
Band41	20MHz	16QAM	40620	50RB#50	19.51	PASS
Band41	20MHz	16QAM	40620	100RB#0	19.49	PASS
Band41	20MHz	QPSK	41490	1RB#0	21.06	PASS
Band41	20MHz	QPSK	41490	1RB#49	21.04	PASS
Band41	20MHz	QPSK	41490	1RB#99	21.04	PASS
Band41	20MHz	QPSK	41490	50RB#0	20.20	PASS
Band41	20MHz	QPSK	41490	50RB#25	20.26	PASS
Band41	20MHz	QPSK	41490	50RB#50	20.13	PASS
Band41	20MHz	QPSK	41490	100RB#0	20.21	PASS

Band41	20MHz	16QAM	41490	1RB#0	20.20	PASS
Band41	20MHz	16QAM	41490	1RB#49	20.13	PASS
Band41	20MHz	16QAM	41490	1RB#99	20.22	PASS
Band41	20MHz	16QAM	41490	50RB#0	19.18	PASS
Band41	20MHz	16QAM	41490	50RB#25	19.13	PASS
Band41	20MHz	16QAM	41490	50RB#50	19.13	PASS
Band41	20MHz	16QAM	41490	100RB#0	19.19	PASS

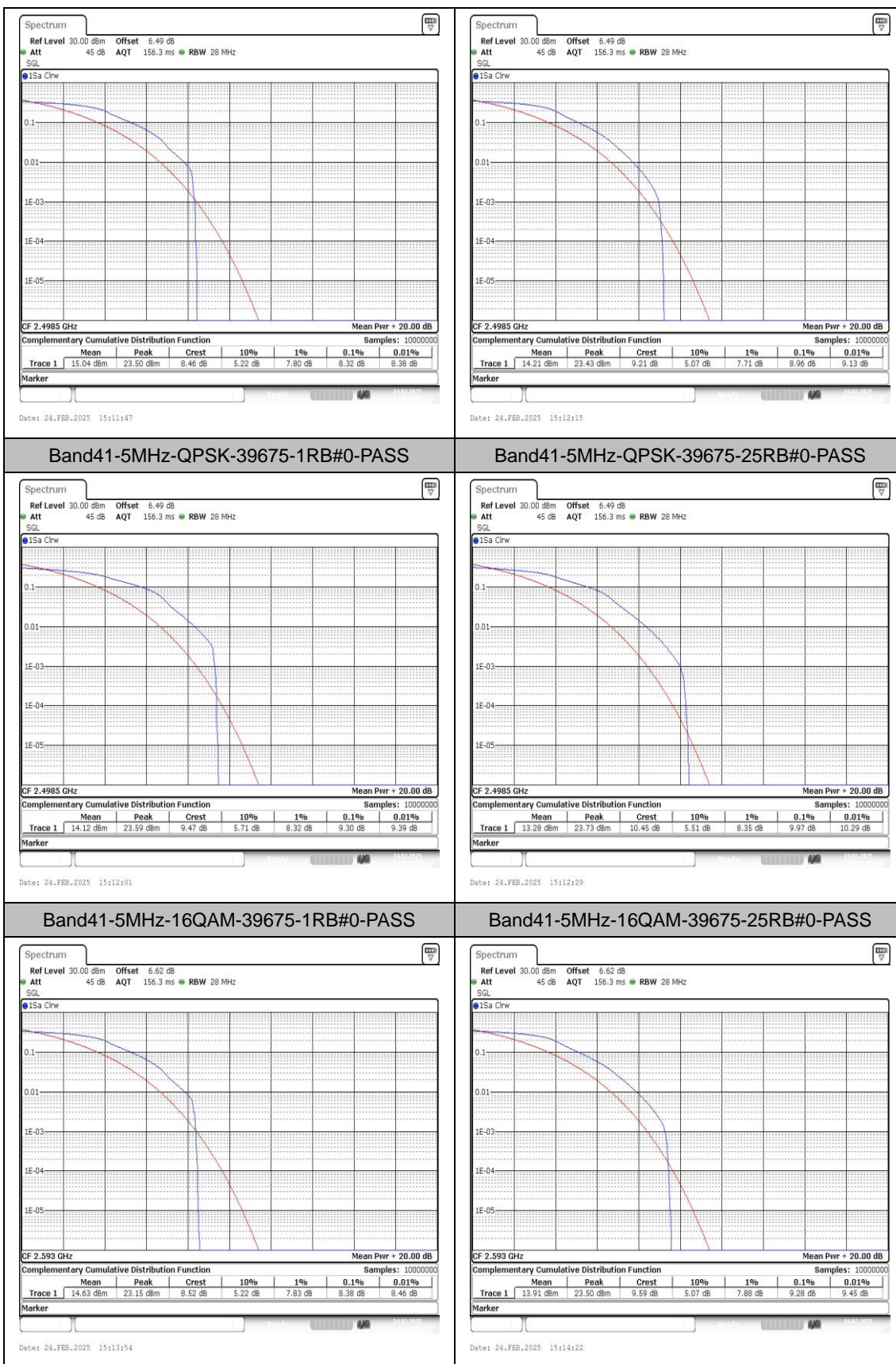
Appendix B: Peak-to-Average Ratio(CCDF)

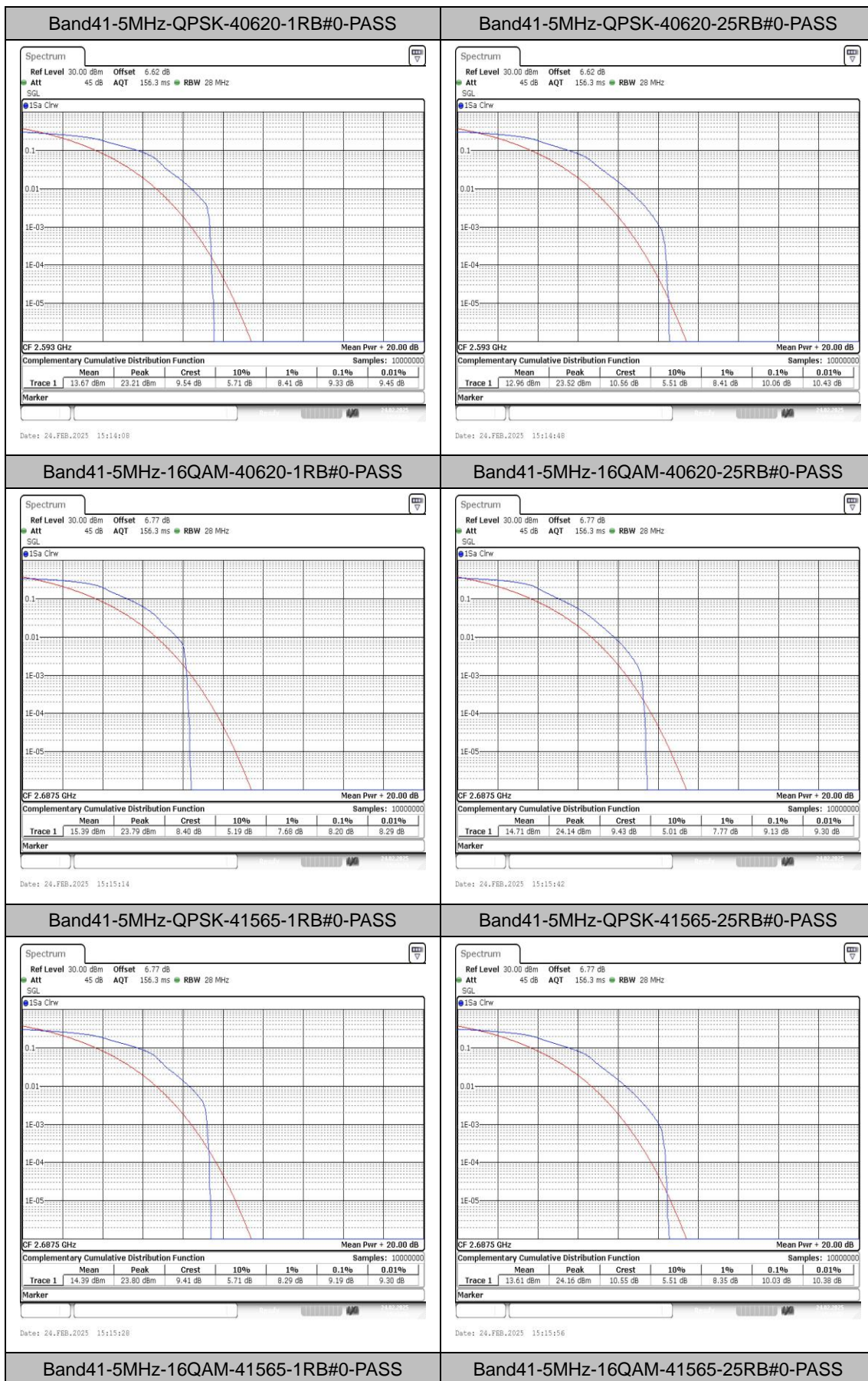
Test Result

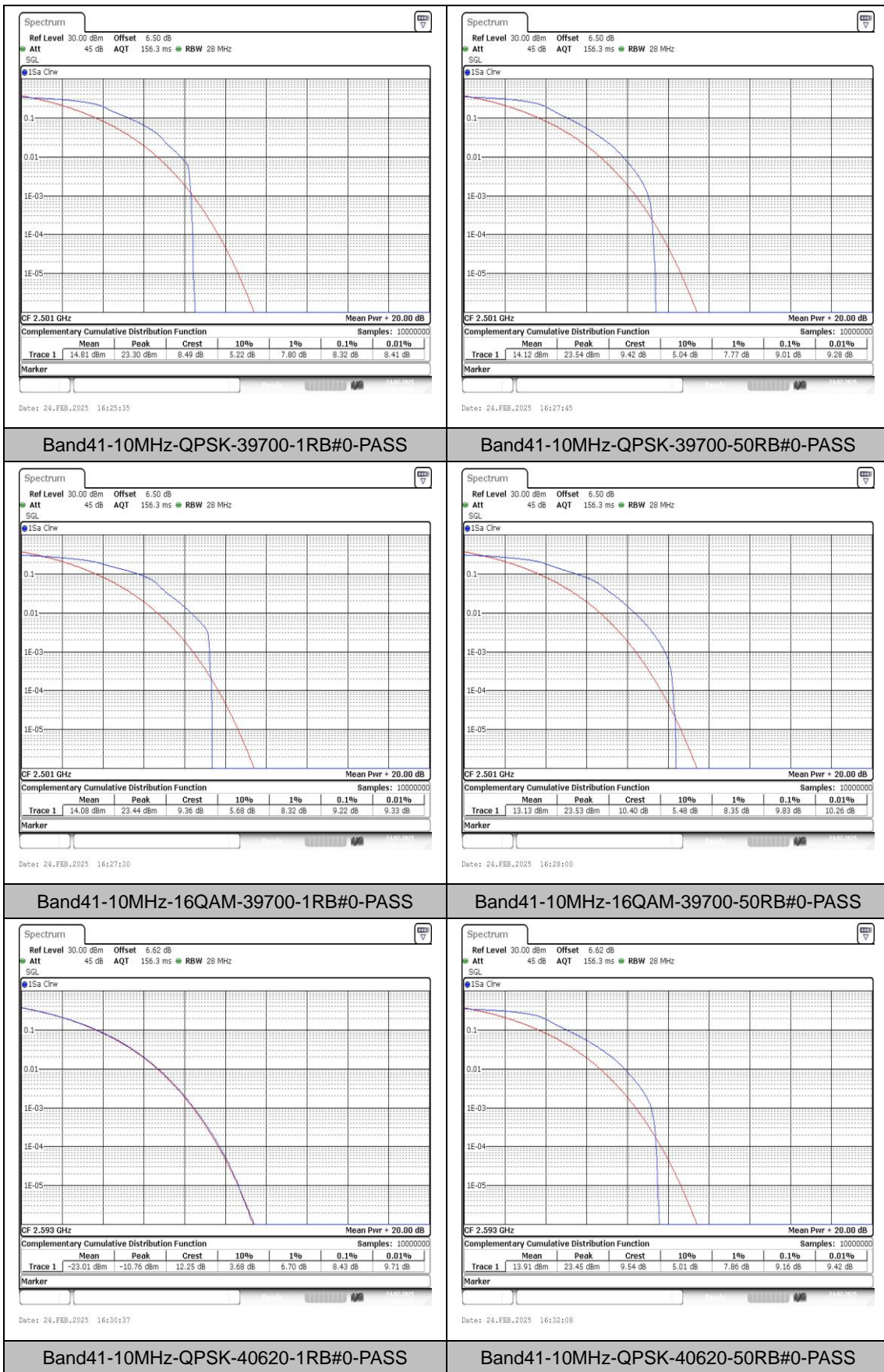
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band41	5MHz	QPSK	39675	1RB#0	8.32	13	PASS
Band41	5MHz	QPSK	39675	25RB#0	8.96	13	PASS
Band41	5MHz	16QAM	39675	1RB#0	9.30	13	PASS
Band41	5MHz	16QAM	39675	25RB#0	9.97	13	PASS
Band41	5MHz	QPSK	40620	1RB#0	8.38	13	PASS
Band41	5MHz	QPSK	40620	25RB#0	9.28	13	PASS
Band41	5MHz	16QAM	40620	1RB#0	9.33	13	PASS
Band41	5MHz	16QAM	40620	25RB#0	10.06	13	PASS
Band41	5MHz	QPSK	41565	1RB#0	8.20	13	PASS
Band41	5MHz	QPSK	41565	25RB#0	9.13	13	PASS
Band41	5MHz	16QAM	41565	1RB#0	9.19	13	PASS
Band41	5MHz	16QAM	41565	25RB#0	10.03	13	PASS
Band41	10MHz	QPSK	39700	1RB#0	8.32	13	PASS
Band41	10MHz	QPSK	39700	50RB#0	9.01	13	PASS
Band41	10MHz	16QAM	39700	1RB#0	9.22	13	PASS
Band41	10MHz	16QAM	39700	50RB#0	9.83	13	PASS
Band41	10MHz	QPSK	40620	1RB#0	8.43	13	PASS
Band41	10MHz	QPSK	40620	50RB#0	9.16	13	PASS
Band41	10MHz	16QAM	40620	1RB#0	9.28	13	PASS
Band41	10MHz	16QAM	40620	50RB#0	10.06	13	PASS
Band41	10MHz	QPSK	41540	1RB#0	8.38	13	PASS
Band41	10MHz	QPSK	41540	50RB#0	9.16	13	PASS
Band41	10MHz	16QAM	41540	1RB#0	9.30	13	PASS
Band41	10MHz	16QAM	41540	50RB#0	10.00	13	PASS
Band41	15MHz	QPSK	39725	1RB#0	8.29	13	PASS
Band41	15MHz	QPSK	39725	75RB#0	9.16	13	PASS
Band41	15MHz	16QAM	39725	1RB#0	9.10	13	PASS
Band41	15MHz	16QAM	39725	75RB#0	9.94	13	PASS
Band41	15MHz	QPSK	40620	1RB#0	8.35	13	PASS
Band41	15MHz	QPSK	40620	75RB#0	9.36	13	PASS
Band41	15MHz	16QAM	40620	1RB#0	9.36	13	PASS
Band41	15MHz	16QAM	40620	75RB#0	10.17	13	PASS
Band41	15MHz	QPSK	41515	1RB#0	8.32	13	PASS
Band41	15MHz	QPSK	41515	75RB#0	9.39	13	PASS
Band41	15MHz	16QAM	41515	1RB#0	9.13	13	PASS

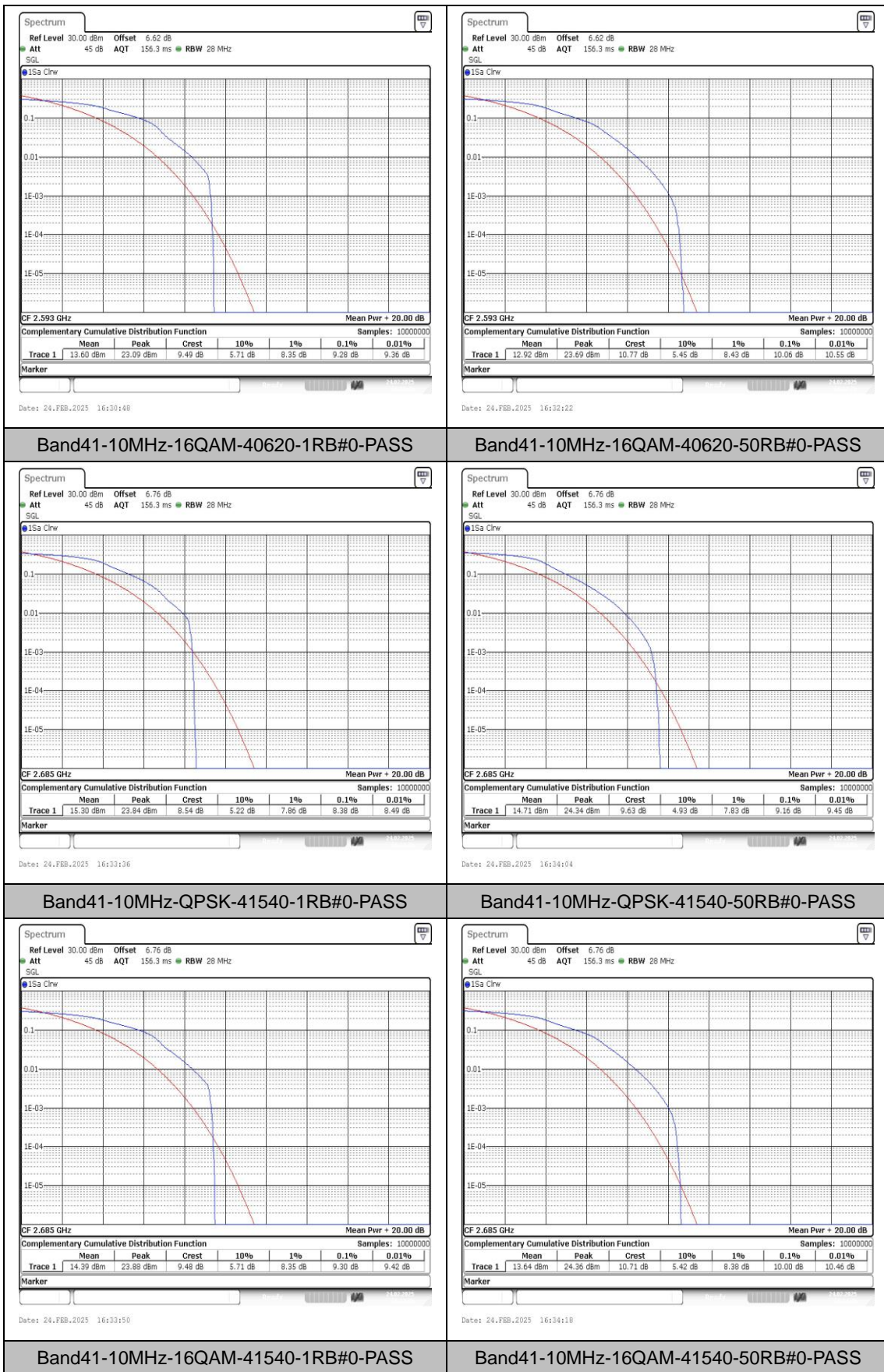
Band41	15MHz	16QAM	41515	75RB#0	10.09	13	PASS
Band41	20MHz	QPSK	39750	1RB#0	8.23	13	PASS
Band41	20MHz	QPSK	39750	100RB#0	8.84	13	PASS
Band41	20MHz	16QAM	39750	1RB#0	9.28	13	PASS
Band41	20MHz	16QAM	39750	100RB#0	9.74	13	PASS
Band41	20MHz	QPSK	40620	1RB#0	8.35	13	PASS
Band41	20MHz	QPSK	40620	100RB#0	9.19	13	PASS
Band41	20MHz	16QAM	40620	1RB#0	9.36	13	PASS
Band41	20MHz	16QAM	40620	100RB#0	9.94	13	PASS
Band41	20MHz	QPSK	41490	1RB#0	8.23	13	PASS
Band41	20MHz	QPSK	41490	100RB#0	9.04	13	PASS
Band41	20MHz	16QAM	41490	1RB#0	9.16	13	PASS
Band41	20MHz	16QAM	41490	100RB#0	9.83	13	PASS

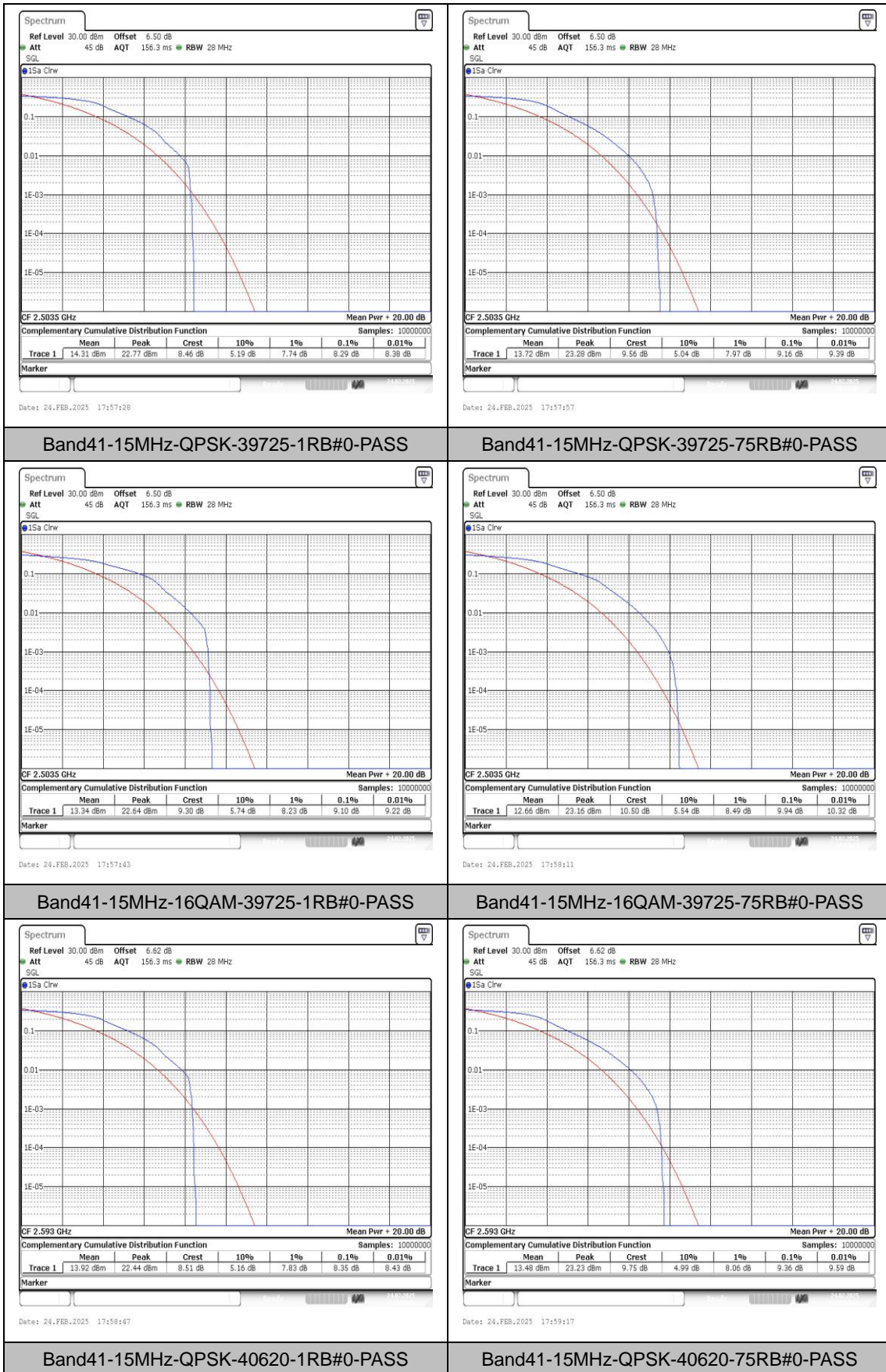
Test Graphs

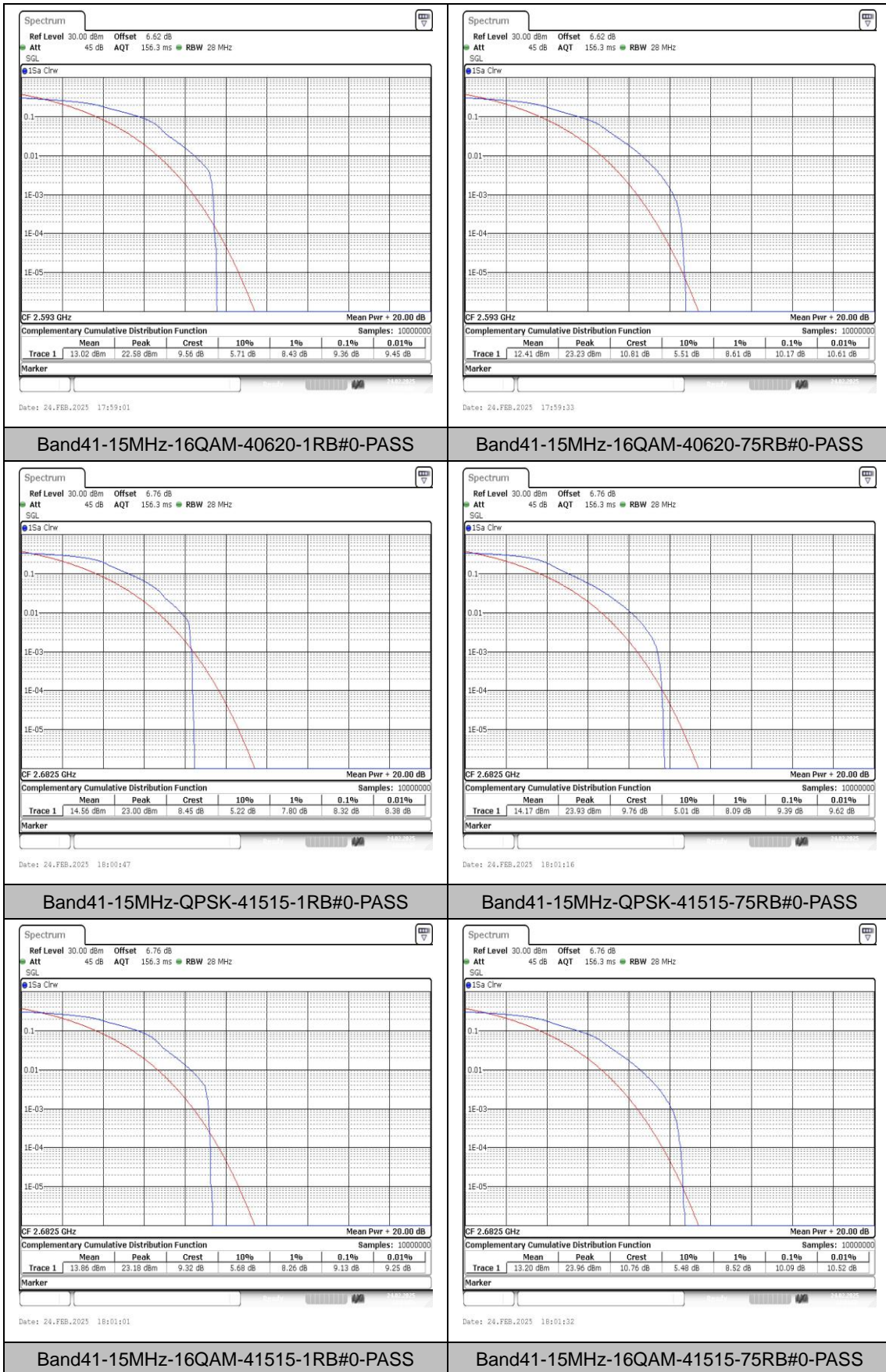


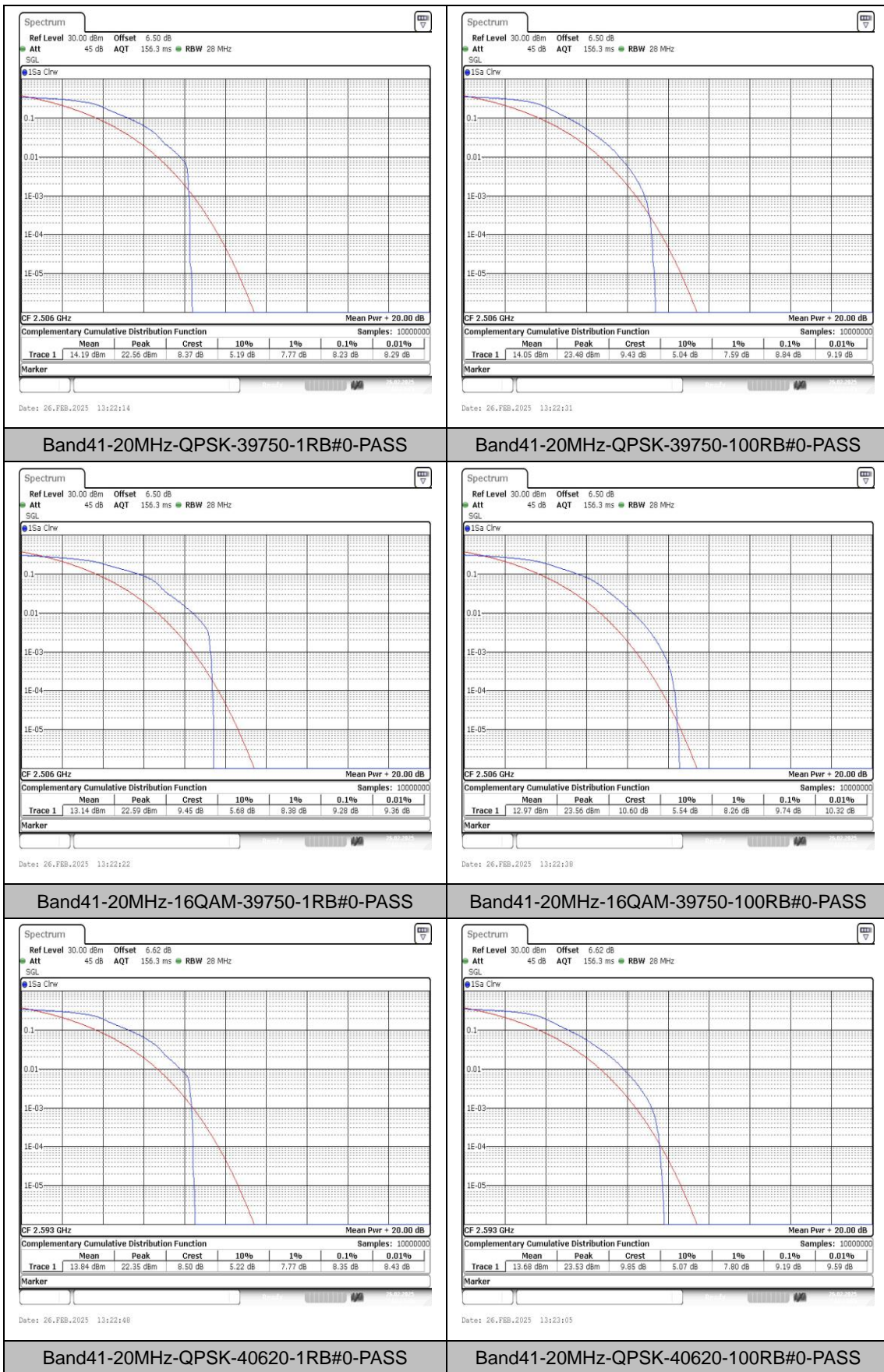


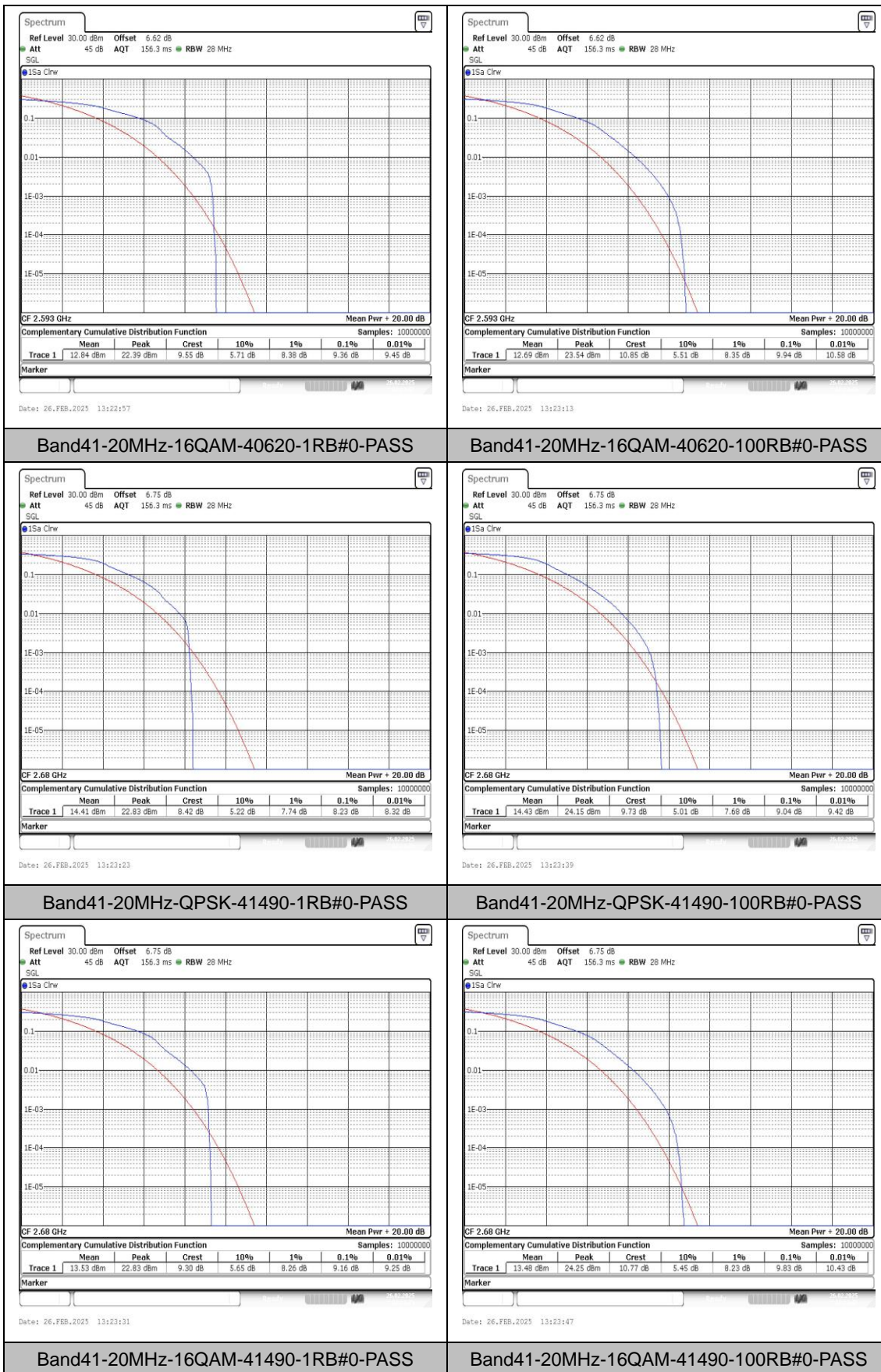










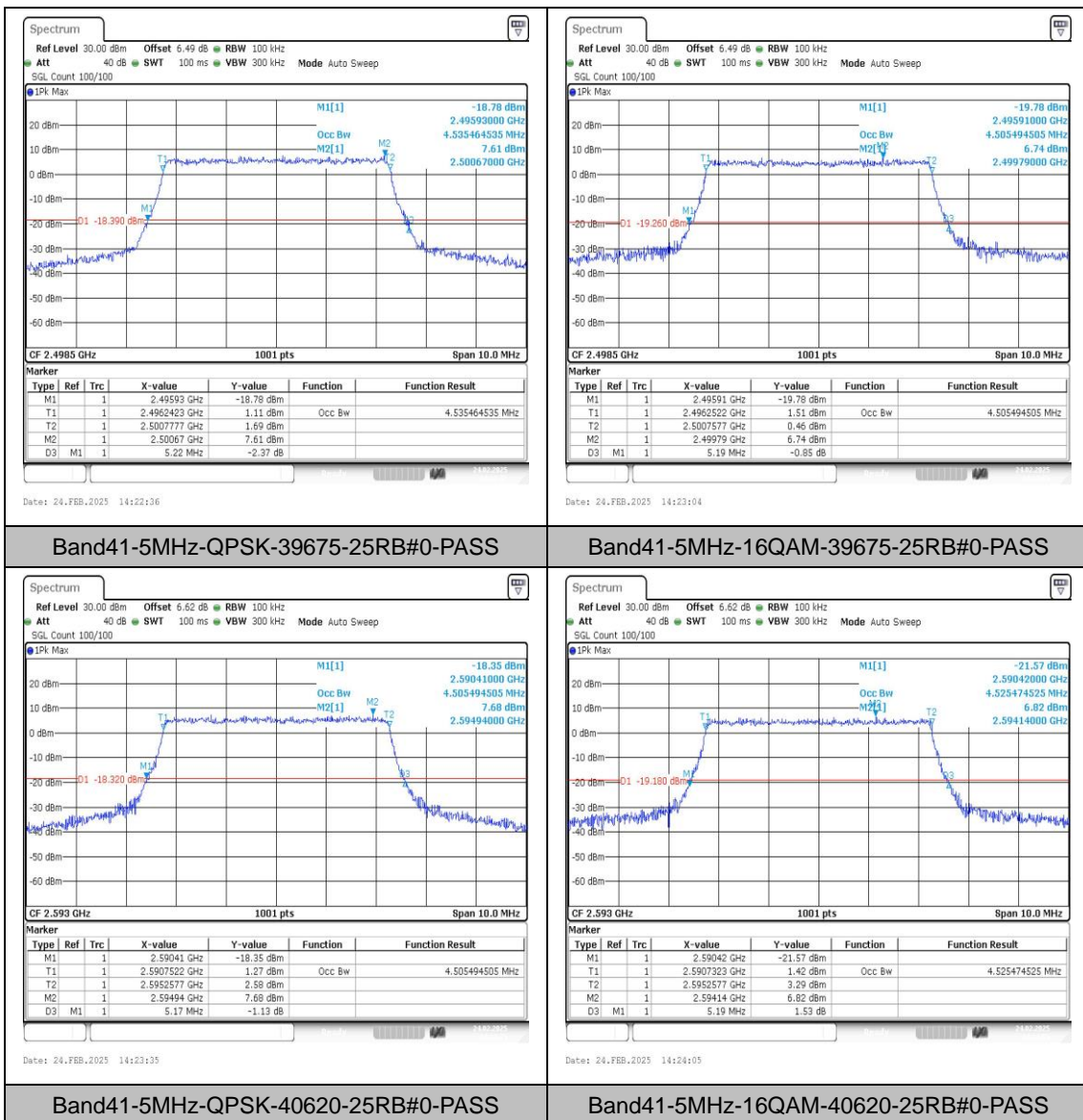


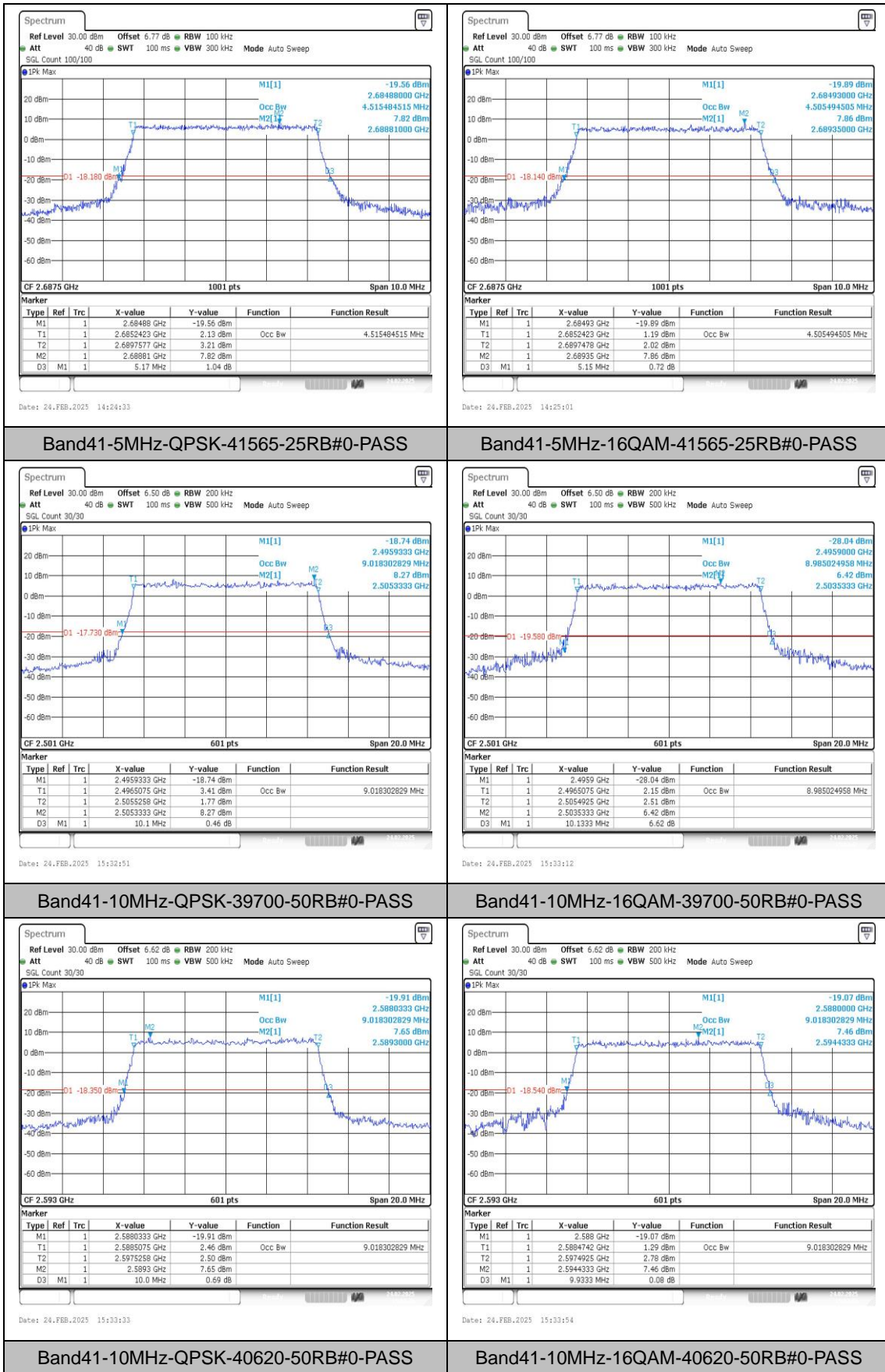
Appendix C: 26dB Bandwidth and Occupied Bandwidth

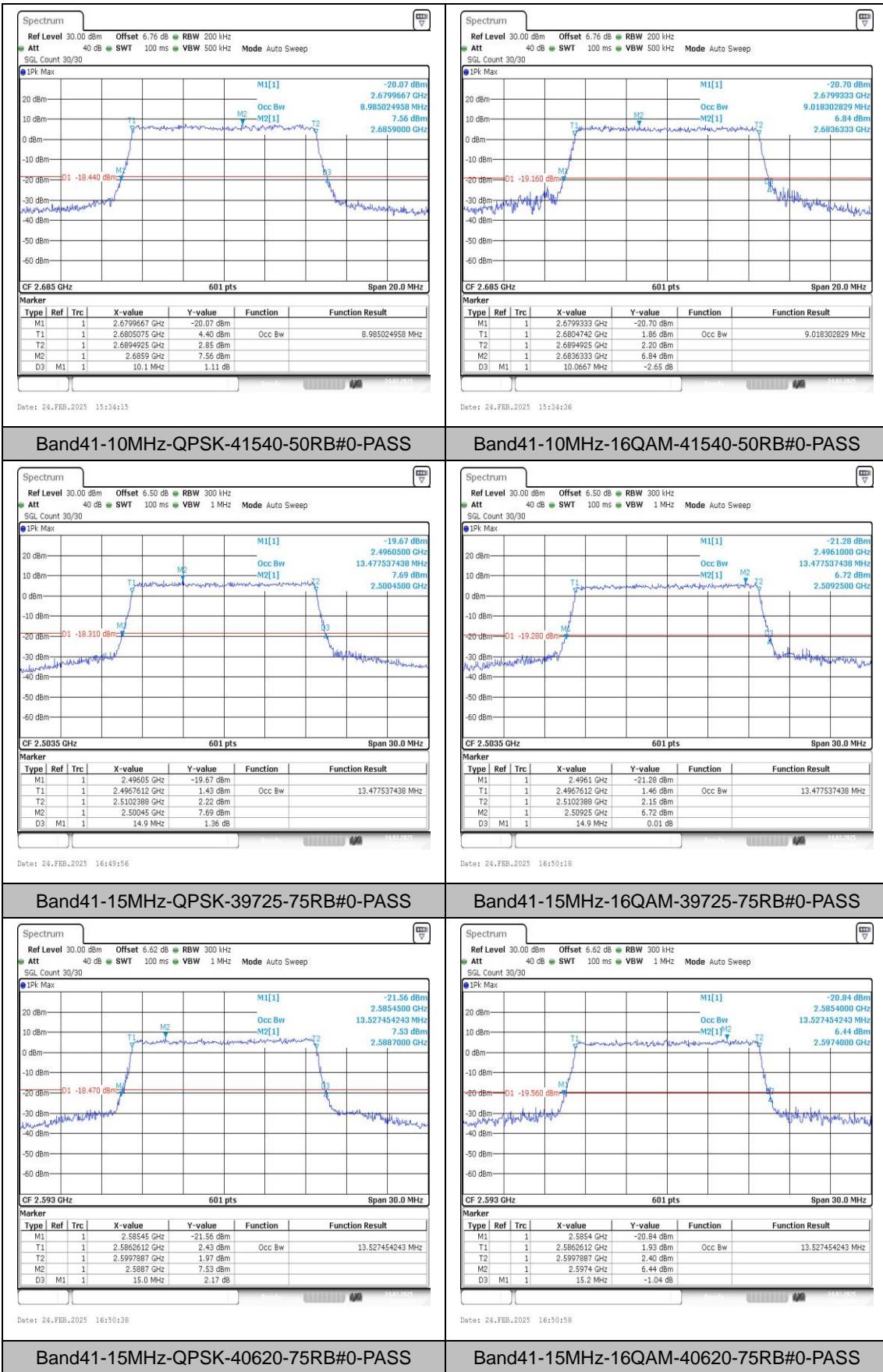
Test Result

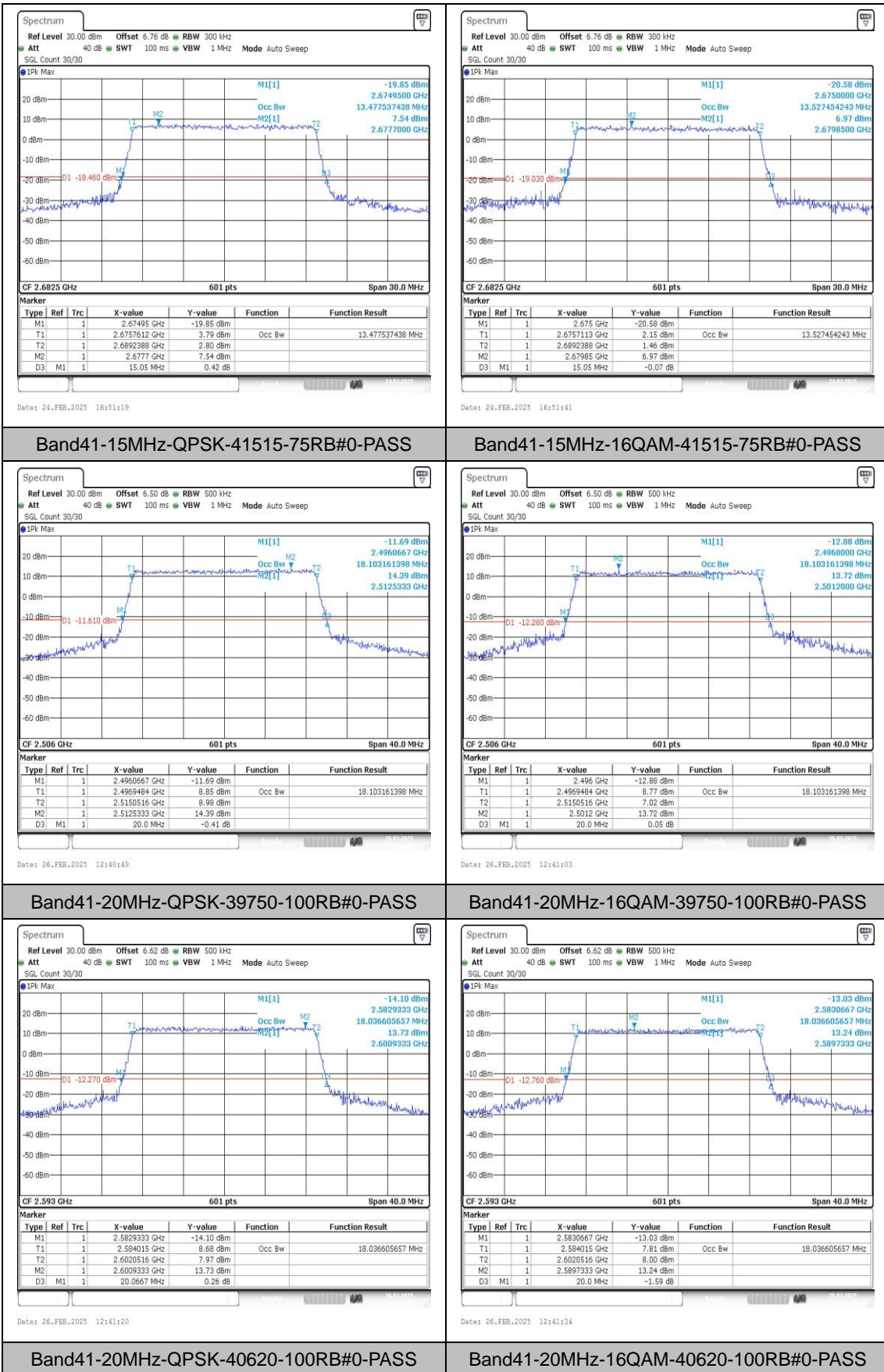
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band41	5MHz	QPSK	39675	25RB#0	4.535	5.22	PASS
Band41	5MHz	16QAM	39675	25RB#0	4.505	5.19	PASS
Band41	5MHz	QPSK	40620	25RB#0	4.505	5.17	PASS
Band41	5MHz	16QAM	40620	25RB#0	4.525	5.19	PASS
Band41	5MHz	QPSK	41565	25RB#0	4.515	5.17	PASS
Band41	5MHz	16QAM	41565	25RB#0	4.505	5.15	PASS
Band41	10MHz	QPSK	39700	50RB#0	9.018	10.10	PASS
Band41	10MHz	16QAM	39700	50RB#0	8.985	10.13	PASS
Band41	10MHz	QPSK	40620	50RB#0	9.018	10.00	PASS
Band41	10MHz	16QAM	40620	50RB#0	9.018	9.93	PASS
Band41	10MHz	QPSK	41540	50RB#0	8.985	10.10	PASS
Band41	10MHz	16QAM	41540	50RB#0	9.018	10.07	PASS
Band41	15MHz	QPSK	39725	75RB#0	13.478	14.90	PASS
Band41	15MHz	16QAM	39725	75RB#0	13.478	14.90	PASS
Band41	15MHz	QPSK	40620	75RB#0	13.527	15.00	PASS
Band41	15MHz	16QAM	40620	75RB#0	13.527	15.20	PASS
Band41	15MHz	QPSK	41515	75RB#0	13.478	15.05	PASS
Band41	15MHz	16QAM	41515	75RB#0	13.527	15.05	PASS
Band41	20MHz	QPSK	39750	100RB#0	18.103	20.00	PASS
Band41	20MHz	16QAM	39750	100RB#0	18.103	20.00	PASS
Band41	20MHz	QPSK	40620	100RB#0	18.037	20.07	PASS
Band41	20MHz	16QAM	40620	100RB#0	18.037	20.00	PASS
Band41	20MHz	QPSK	41490	100RB#0	18.103	20.07	PASS
Band41	20MHz	16QAM	41490	100RB#0	18.037	20.07	PASS

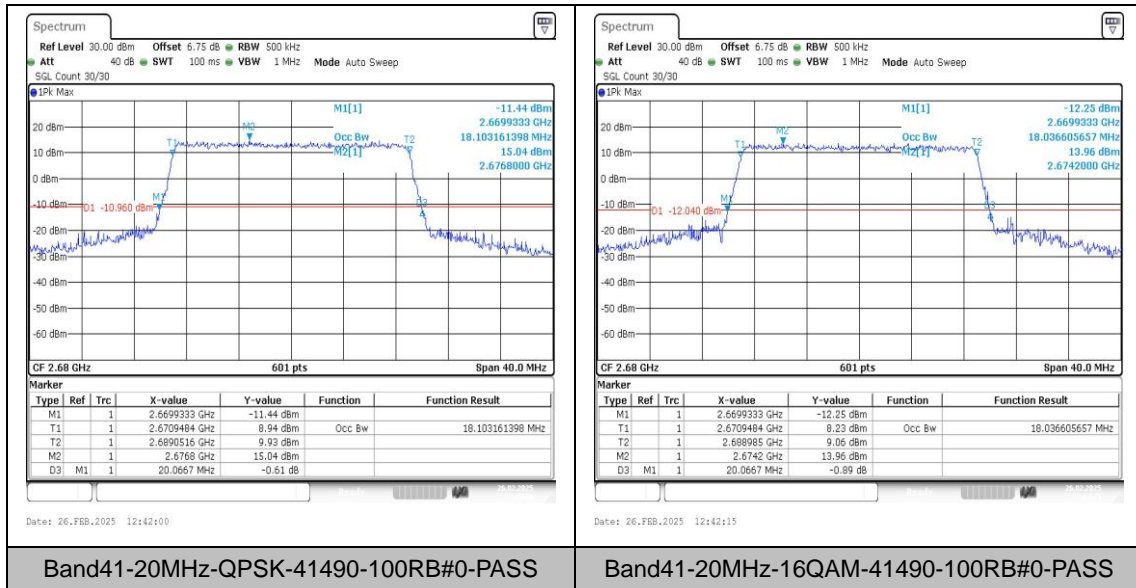
Test Graphs











Band41-20MHz-QPSK-41490-100RB#0-PASS

Band41-20MHz-16QAM-41490-100RB#0-PASS

Appendix D: Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band41	5MHz	QPSK	39675	1RB#0	-42.41	PASS
Band41	5MHz	QPSK	39675	1RB#24	-43.42	PASS
Band41	5MHz	QPSK	39675	25RB#0	-39.68	PASS
Band41	5MHz	16QAM	39675	1RB#0	-42.80	PASS
Band41	5MHz	16QAM	39675	1RB#24	-43.40	PASS
Band41	5MHz	16QAM	39675	25RB#0	-39.02	PASS
Band41	5MHz	QPSK	41565	1RB#0	-42.57	PASS
Band41	5MHz	QPSK	41565	1RB#24	-40.57	PASS
Band41	5MHz	QPSK	41565	25RB#0	-36.85	PASS
Band41	5MHz	16QAM	41565	1RB#0	-42.65	PASS
Band41	5MHz	16QAM	41565	1RB#24	-40.91	PASS
Band41	5MHz	16QAM	41565	25RB#0	-37.50	PASS
Band41	10MHz	QPSK	39700	1RB#0	-42.60	PASS
Band41	10MHz	QPSK	39700	1RB#49	-43.43	PASS
Band41	10MHz	QPSK	39700	50RB#0	-39.18	PASS
Band41	10MHz	16QAM	39700	1RB#0	-42.70	PASS
Band41	10MHz	16QAM	39700	1RB#49	-43.33	PASS
Band41	10MHz	16QAM	39700	50RB#0	-39.39	PASS
Band41	10MHz	QPSK	41540	1RB#0	-42.80	PASS
Band41	10MHz	QPSK	41540	1RB#49	-42.66	PASS
Band41	10MHz	QPSK	41540	50RB#0	-39.06	PASS
Band41	10MHz	16QAM	41540	1RB#0	-42.69	PASS
Band41	10MHz	16QAM	41540	1RB#49	-42.67	PASS
Band41	10MHz	16QAM	41540	50RB#0	-39.31	PASS
Band41	15MHz	QPSK	39725	1RB#0	-42.77	PASS
Band41	15MHz	QPSK	39725	1RB#74	-43.50	PASS
Band41	15MHz	QPSK	39725	75RB#0	-36.26	PASS
Band41	15MHz	16QAM	39725	1RB#0	-42.73	PASS
Band41	15MHz	16QAM	39725	1RB#74	-43.40	PASS
Band41	15MHz	16QAM	39725	75RB#0	-39.40	PASS
Band41	15MHz	QPSK	41515	1RB#0	-42.73	PASS
Band41	15MHz	QPSK	41515	1RB#74	-26.30	PASS
Band41	15MHz	QPSK	41515	75RB#0	-38.76	PASS
Band41	15MHz	16QAM	41515	1RB#0	-42.70	PASS
Band41	15MHz	16QAM	41515	1RB#74	-27.19	PASS
Band41	15MHz	16QAM	41515	75RB#0	-40.03	PASS

Band41	20MHz	QPSK	39750	1RB#0	-42.58	PASS
Band41	20MHz	QPSK	39750	1RB#99	-42.99	PASS
Band41	20MHz	QPSK	39750	100RB#0	-39.76	PASS
Band41	20MHz	16QAM	39750	1RB#0	-42.17	PASS
Band41	20MHz	16QAM	39750	1RB#99	-43.09	PASS
Band41	20MHz	16QAM	39750	100RB#0	-39.99	PASS
Band41	20MHz	QPSK	41490	1RB#0	-42.36	PASS
Band41	20MHz	QPSK	41490	1RB#99	-23.06	PASS
Band41	20MHz	QPSK	41490	100RB#0	-40.19	PASS
Band41	20MHz	16QAM	41490	1RB#0	-42.43	PASS
Band41	20MHz	16QAM	41490	1RB#99	-25.17	PASS
Band41	20MHz	16QAM	41490	100RB#0	-40.26	PASS

Test Graphs

