

Appendix for LTE BAND 7

Product Name: Mobile Phone

Model No: STAR

Appendix A: Average Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	21.26	PASS
Band7	5MHz	16QAM	20775	1RB#0	20.40	PASS
Band7	5MHz	QPSK	20775	1RB#12	21.45	PASS
Band7	5MHz	16QAM	20775	1RB#12	20.64	PASS
Band7	5MHz	QPSK	20775	1RB#24	21.25	PASS
Band7	5MHz	16QAM	20775	1RB#24	20.57	PASS
Band7	5MHz	QPSK	20775	12RB#0	20.45	PASS
Band7	5MHz	16QAM	20775	12RB#0	20.67	PASS
Band7	5MHz	QPSK	20775	12RB#6	20.58	PASS
Band7	5MHz	16QAM	20775	12RB#6	20.66	PASS
Band7	5MHz	QPSK	20775	12RB#13	20.56	PASS
Band7	5MHz	16QAM	20775	12RB#13	20.76	PASS
Band7	5MHz	QPSK	20775	25RB#0	20.52	PASS
Band7	5MHz	16QAM	20775	25RB#0	20.76	PASS
Band7	5MHz	QPSK	21100	1RB#0	21.04	PASS
Band7	5MHz	16QAM	21100	1RB#0	21.14	PASS
Band7	5MHz	QPSK	21100	1RB#12	21.23	PASS
Band7	5MHz	16QAM	21100	1RB#12	20.60	PASS
Band7	5MHz	QPSK	21100	1RB#24	21.21	PASS
Band7	5MHz	16QAM	21100	1RB#24	20.62	PASS
Band7	5MHz	QPSK	21100	12RB#0	20.41	PASS
Band7	5MHz	16QAM	21100	12RB#0	19.53	PASS
Band7	5MHz	QPSK	21100	12RB#6	20.48	PASS
Band7	5MHz	16QAM	21100	12RB#6	19.49	PASS
Band7	5MHz	QPSK	21100	12RB#13	20.34	PASS
Band7	5MHz	16QAM	21100	12RB#13	19.52	PASS
Band7	5MHz	QPSK	21100	25RB#0	20.30	PASS
Band7	5MHz	16QAM	21100	25RB#0	20.47	PASS
Band7	5MHz	QPSK	21425	1RB#0	21.21	PASS
Band7	5MHz	16QAM	21425	1RB#0	20.48	PASS
Band7	5MHz	QPSK	21425	1RB#12	21.43	PASS
Band7	5MHz	16QAM	21425	1RB#12	20.91	PASS
Band7	5MHz	QPSK	21425	1RB#24	21.37	PASS
Band7	5MHz	16QAM	21425	1RB#24	20.94	PASS
Band7	5MHz	QPSK	21425	12RB#0	20.51	PASS
Band7	5MHz	16QAM	21425	12RB#0	20.68	PASS

Band7	5MHz	QPSK	21425	12RB#6	20.59	PASS
Band7	5MHz	16QAM	21425	12RB#6	20.60	PASS
Band7	5MHz	QPSK	21425	12RB#13	20.52	PASS
Band7	5MHz	16QAM	21425	12RB#13	21.84	PASS
Band7	5MHz	QPSK	21425	25RB#0	20.48	PASS
Band7	5MHz	16QAM	21425	25RB#0	20.68	PASS
Band7	10MHz	QPSK	20800	1RB#0	21.15	PASS
Band7	10MHz	16QAM	20800	1RB#0	20.74	PASS
Band7	10MHz	QPSK	20800	1RB#24	21.18	PASS
Band7	10MHz	16QAM	20800	1RB#24	21.18	PASS
Band7	10MHz	QPSK	20800	1RB#49	21.18	PASS
Band7	10MHz	16QAM	20800	1RB#49	21.27	PASS
Band7	10MHz	QPSK	20800	25RB#0	20.62	PASS
Band7	10MHz	16QAM	20800	25RB#0	20.66	PASS
Band7	10MHz	QPSK	20800	25RB#12	20.51	PASS
Band7	10MHz	16QAM	20800	25RB#12	20.66	PASS
Band7	10MHz	QPSK	20800	25RB#25	20.52	PASS
Band7	10MHz	16QAM	20800	25RB#25	20.64	PASS
Band7	10MHz	QPSK	20800	50RB#0	20.51	PASS
Band7	10MHz	16QAM	20800	50RB#0	21.68	PASS
Band7	10MHz	QPSK	21100	1RB#0	21.11	PASS
Band7	10MHz	16QAM	21100	1RB#0	20.85	PASS
Band7	10MHz	QPSK	21100	1RB#24	21.02	PASS
Band7	10MHz	16QAM	21100	1RB#24	20.07	PASS
Band7	10MHz	QPSK	21100	1RB#49	21.12	PASS
Band7	10MHz	16QAM	21100	1RB#49	20.02	PASS
Band7	10MHz	QPSK	21100	25RB#0	20.44	PASS
Band7	10MHz	16QAM	21100	25RB#0	20.68	PASS
Band7	10MHz	QPSK	21100	25RB#12	20.41	PASS
Band7	10MHz	16QAM	21100	25RB#12	21.60	PASS
Band7	10MHz	QPSK	21100	25RB#25	20.32	PASS
Band7	10MHz	16QAM	21100	25RB#25	20.60	PASS
Band7	10MHz	QPSK	21100	50RB#0	20.39	PASS
Band7	10MHz	16QAM	21100	50RB#0	21.46	PASS
Band7	10MHz	QPSK	21400	1RB#0	21.21	PASS
Band7	10MHz	16QAM	21400	1RB#0	21.55	PASS
Band7	10MHz	QPSK	21400	1RB#24	21.21	PASS
Band7	10MHz	16QAM	21400	1RB#24	21.64	PASS
Band7	10MHz	QPSK	21400	1RB#49	21.23	PASS
Band7	10MHz	16QAM	21400	1RB#49	21.67	PASS
Band7	10MHz	QPSK	21400	25RB#0	20.44	PASS
Band7	10MHz	16QAM	21400	25RB#0	21.63	PASS

Band7	10MHz	QPSK	21400	25RB#12	20.47	PASS
Band7	10MHz	16QAM	21400	25RB#12	21.66	PASS
Band7	10MHz	QPSK	21400	25RB#25	20.40	PASS
Band7	10MHz	16QAM	21400	25RB#25	20.74	PASS
Band7	10MHz	QPSK	21400	50RB#0	20.37	PASS
Band7	10MHz	16QAM	21400	50RB#0	19.71	PASS
Band7	15MHz	QPSK	20825	1RB#0	21.15	PASS
Band7	15MHz	16QAM	20825	1RB#0	21.14	PASS
Band7	15MHz	QPSK	20825	1RB#38	21.09	PASS
Band7	15MHz	16QAM	20825	1RB#38	21.16	PASS
Band7	15MHz	QPSK	20825	1RB#74	21.09	PASS
Band7	15MHz	16QAM	20825	1RB#74	21.16	PASS
Band7	15MHz	QPSK	20825	38RB#0	20.58	PASS
Band7	15MHz	16QAM	20825	38RB#0	20.58	PASS
Band7	15MHz	QPSK	20825	38RB#18	20.58	PASS
Band7	15MHz	16QAM	20825	38RB#18	20.57	PASS
Band7	15MHz	QPSK	20825	38RB#37	20.57	PASS
Band7	15MHz	16QAM	20825	38RB#37	20.57	PASS
Band7	15MHz	QPSK	20825	75RB#0	20.57	PASS
Band7	15MHz	16QAM	20825	75RB#0	21.73	PASS
Band7	15MHz	QPSK	21100	1RB#0	20.76	PASS
Band7	15MHz	16QAM	21100	1RB#0	20.84	PASS
Band7	15MHz	QPSK	21100	1RB#38	20.63	PASS
Band7	15MHz	16QAM	21100	1RB#38	20.74	PASS
Band7	15MHz	QPSK	21100	1RB#74	20.63	PASS
Band7	15MHz	16QAM	21100	1RB#74	20.73	PASS
Band7	15MHz	QPSK	21100	38RB#0	20.29	PASS
Band7	15MHz	16QAM	21100	38RB#0	20.29	PASS
Band7	15MHz	QPSK	21100	38RB#18	20.29	PASS
Band7	15MHz	16QAM	21100	38RB#18	20.29	PASS
Band7	15MHz	QPSK	21100	38RB#37	20.28	PASS
Band7	15MHz	16QAM	21100	38RB#37	20.29	PASS
Band7	15MHz	QPSK	21100	75RB#0	20.28	PASS
Band7	15MHz	16QAM	21100	75RB#0	21.41	PASS
Band7	15MHz	QPSK	21375	1RB#0	21.02	PASS
Band7	15MHz	16QAM	21375	1RB#0	21.62	PASS
Band7	15MHz	QPSK	21375	1RB#38	21.04	PASS
Band7	15MHz	16QAM	21375	1RB#38	20.98	PASS
Band7	15MHz	QPSK	21375	1RB#74	21.12	PASS
Band7	15MHz	16QAM	21375	1RB#74	21.53	PASS
Band7	15MHz	QPSK	21375	38RB#0	20.47	PASS
Band7	15MHz	16QAM	21375	38RB#0	20.43	PASS

Band7	15MHz	QPSK	21375	38RB#18	20.43	PASS
Band7	15MHz	16QAM	21375	38RB#18	20.43	PASS
Band7	15MHz	QPSK	21375	38RB#37	20.44	PASS
Band7	15MHz	16QAM	21375	38RB#37	20.44	PASS
Band7	15MHz	QPSK	21375	75RB#0	20.43	PASS
Band7	15MHz	16QAM	21375	75RB#0	21.67	PASS
Band7	20MHz	QPSK	20850	1RB#0	21.24	PASS
Band7	20MHz	16QAM	20850	1RB#0	20.51	PASS
Band7	20MHz	QPSK	20850	1RB#49	21.37	PASS
Band7	20MHz	16QAM	20850	1RB#49	20.77	PASS
Band7	20MHz	QPSK	20850	1RB#99	21.33	PASS
Band7	20MHz	16QAM	20850	1RB#99	20.66	PASS
Band7	20MHz	QPSK	20850	50RB#0	20.55	PASS
Band7	20MHz	16QAM	20850	50RB#0	21.73	PASS
Band7	20MHz	QPSK	20850	50RB#25	20.42	PASS
Band7	20MHz	16QAM	20850	50RB#25	21.74	PASS
Band7	20MHz	QPSK	20850	50RB#50	20.41	PASS
Band7	20MHz	16QAM	20850	50RB#50	21.76	PASS
Band7	20MHz	QPSK	20850	100RB#0	20.57	PASS
Band7	20MHz	16QAM	20850	100RB#0	21.59	PASS
Band7	20MHz	QPSK	21100	1RB#0	21.24	PASS
Band7	20MHz	16QAM	21100	1RB#0	21.54	PASS
Band7	20MHz	QPSK	21100	1RB#49	21.03	PASS
Band7	20MHz	16QAM	21100	1RB#49	21.41	PASS
Band7	20MHz	QPSK	21100	1RB#99	21.09	PASS
Band7	20MHz	16QAM	21100	1RB#99	21.51	PASS
Band7	20MHz	QPSK	21100	50RB#0	20.34	PASS
Band7	20MHz	16QAM	21100	50RB#0	21.57	PASS
Band7	20MHz	QPSK	21100	50RB#25	20.43	PASS
Band7	20MHz	16QAM	21100	50RB#25	21.59	PASS
Band7	20MHz	QPSK	21100	50RB#50	20.36	PASS
Band7	20MHz	16QAM	21100	50RB#50	21.54	PASS
Band7	20MHz	QPSK	21100	100RB#0	20.21	PASS
Band7	20MHz	16QAM	21100	100RB#0	21.57	PASS
Band7	20MHz	QPSK	21350	1RB#0	21.24	PASS
Band7	20MHz	16QAM	21350	1RB#0	21.05	PASS
Band7	20MHz	QPSK	21350	1RB#49	21.16	PASS
Band7	20MHz	16QAM	21350	1RB#49	21.14	PASS
Band7	20MHz	QPSK	21350	1RB#99	21.17	PASS
Band7	20MHz	16QAM	21350	1RB#99	21.05	PASS
Band7	20MHz	QPSK	21350	50RB#0	20.51	PASS
Band7	20MHz	16QAM	21350	50RB#0	21.75	PASS

Band7	20MHz	QPSK	21350	50RB#25	20.39	PASS
Band7	20MHz	16QAM	21350	50RB#25	21.76	PASS
Band7	20MHz	QPSK	21350	50RB#50	20.35	PASS
Band7	20MHz	16QAM	21350	50RB#50	21.86	PASS
Band7	20MHz	QPSK	21350	100RB#0	20.35	PASS
Band7	20MHz	16QAM	21350	100RB#0	21.46	PASS

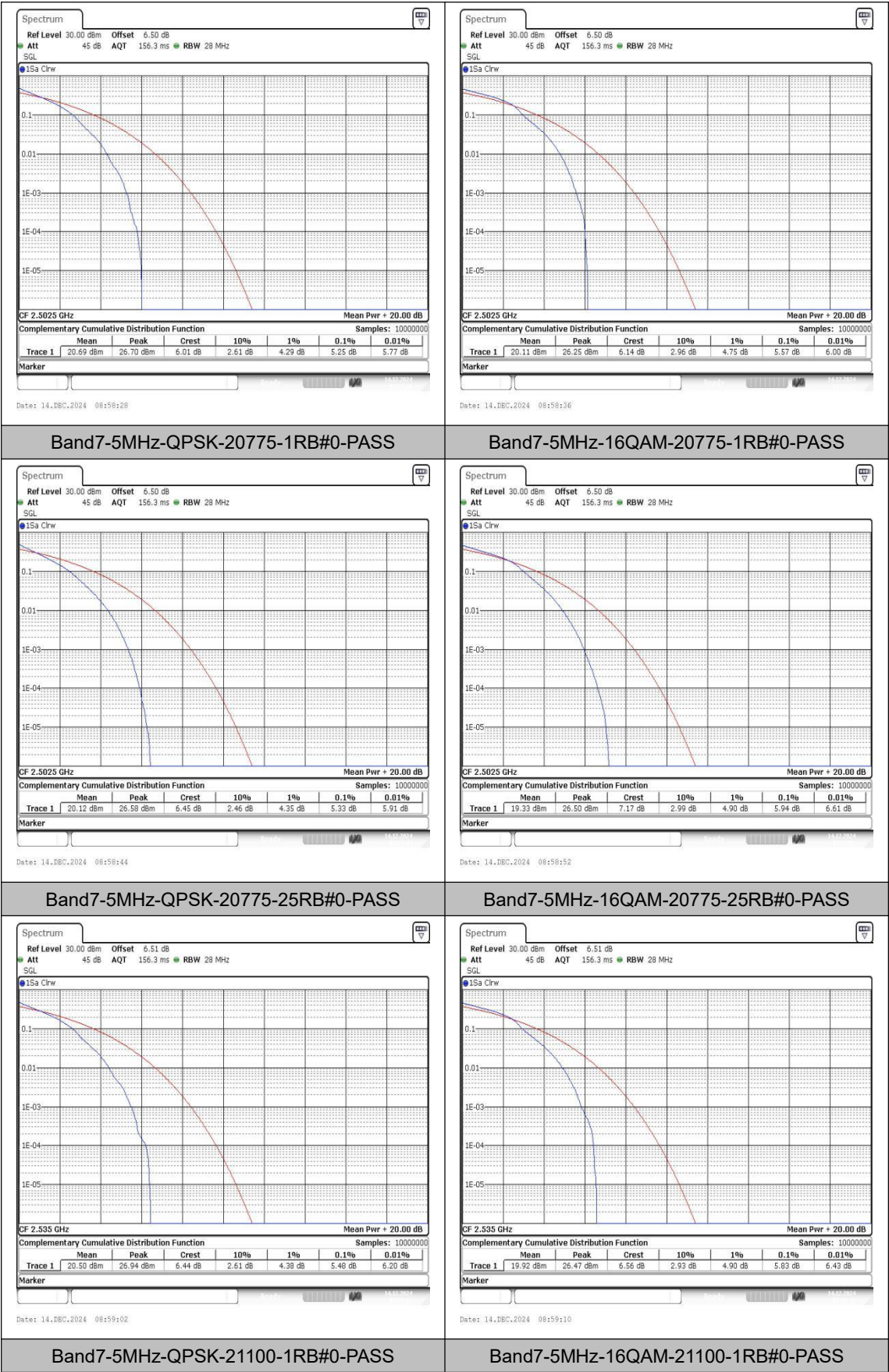
Appendix B: Peak-to-Average Ratio(CCDF)

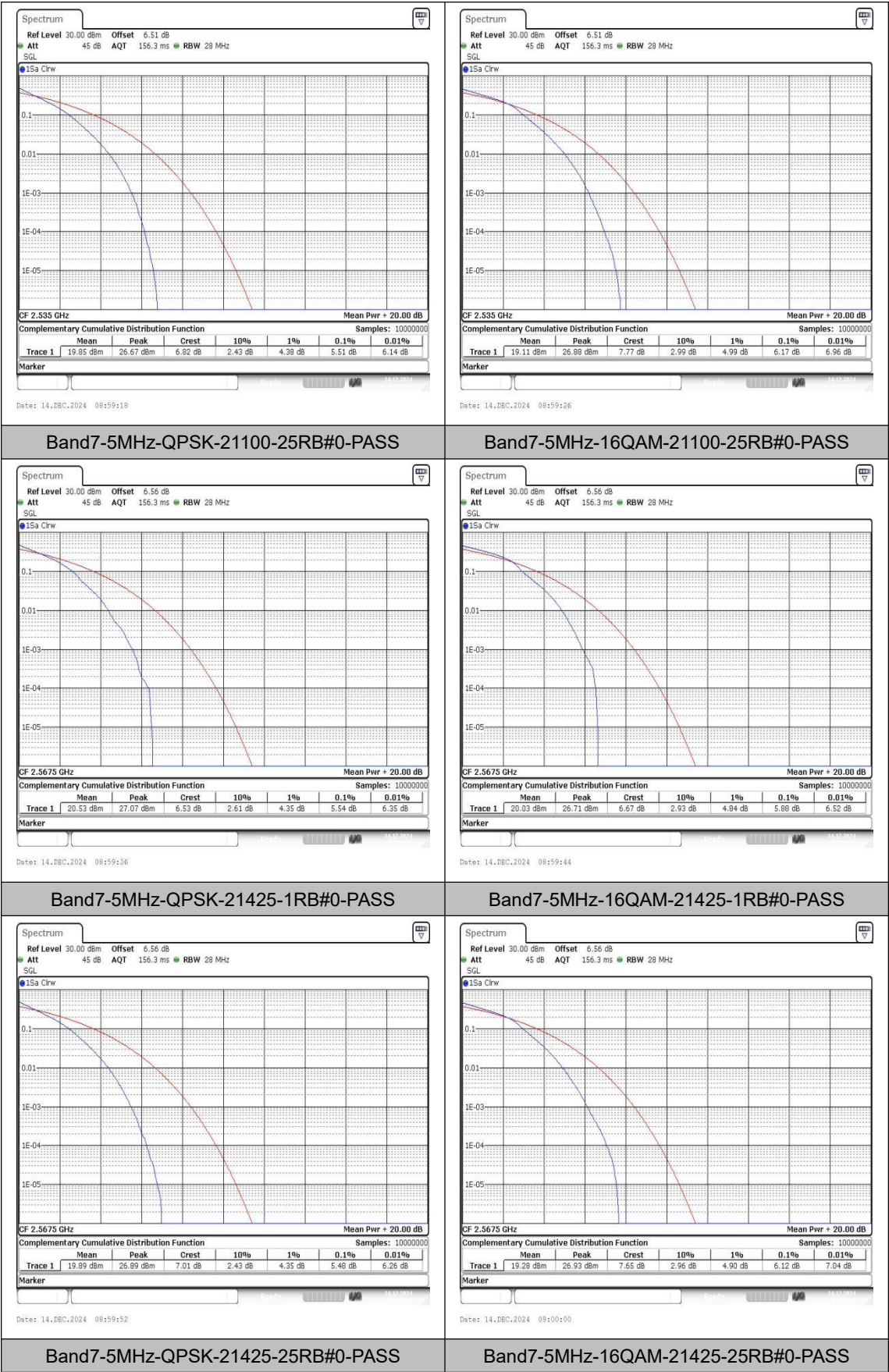
Test Result

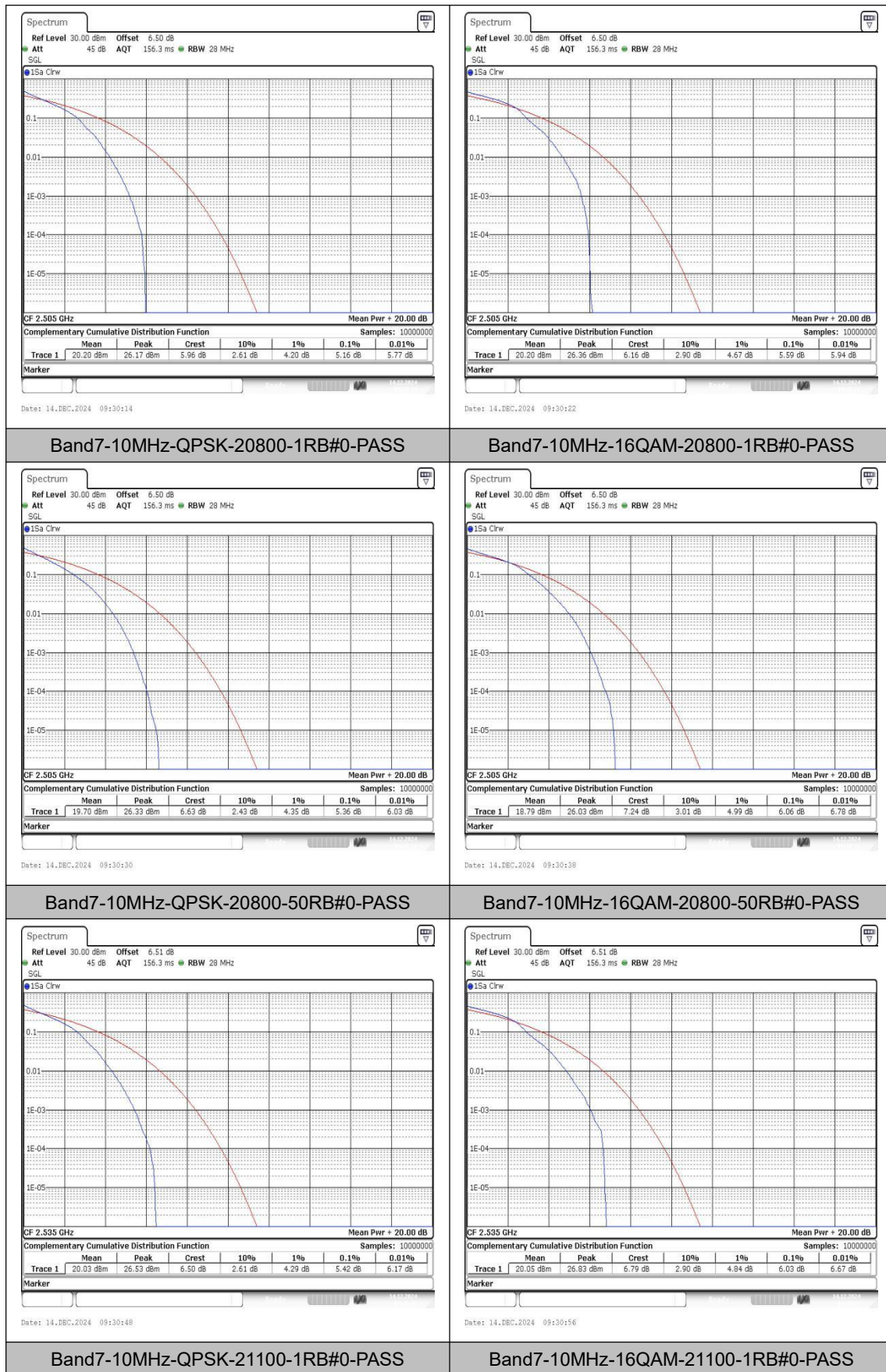
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	5.25	13	PASS
Band7	5MHz	16QAM	20775	1RB#0	5.57	13	PASS
Band7	5MHz	QPSK	20775	25RB#0	5.33	13	PASS
Band7	5MHz	16QAM	20775	25RB#0	5.94	13	PASS
Band7	5MHz	QPSK	21100	1RB#0	5.48	13	PASS
Band7	5MHz	16QAM	21100	1RB#0	5.83	13	PASS
Band7	5MHz	QPSK	21100	25RB#0	5.51	13	PASS
Band7	5MHz	16QAM	21100	25RB#0	6.17	13	PASS
Band7	5MHz	QPSK	21425	1RB#0	5.54	13	PASS
Band7	5MHz	16QAM	21425	1RB#0	5.88	13	PASS
Band7	5MHz	QPSK	21425	25RB#0	5.48	13	PASS
Band7	5MHz	16QAM	21425	25RB#0	6.12	13	PASS
Band7	10MHz	QPSK	20800	1RB#0	5.16	13	PASS
Band7	10MHz	16QAM	20800	1RB#0	5.59	13	PASS
Band7	10MHz	QPSK	20800	50RB#0	5.36	13	PASS
Band7	10MHz	16QAM	20800	50RB#0	6.06	13	PASS
Band7	10MHz	QPSK	21100	1RB#0	5.42	13	PASS
Band7	10MHz	16QAM	21100	1RB#0	6.03	13	PASS
Band7	10MHz	QPSK	21100	50RB#0	5.48	13	PASS
Band7	10MHz	16QAM	21100	50RB#0	6.20	13	PASS
Band7	10MHz	QPSK	21400	1RB#0	5.42	13	PASS
Band7	10MHz	16QAM	21400	1RB#0	6.17	13	PASS
Band7	10MHz	QPSK	21400	50RB#0	5.48	13	PASS
Band7	10MHz	16QAM	21400	50RB#0	6.14	13	PASS
Band7	15MHz	QPSK	20825	1RB#0	5.19	13	PASS
Band7	15MHz	16QAM	20825	1RB#0	5.59	13	PASS
Band7	15MHz	QPSK	20825	75RB#0	5.59	13	PASS
Band7	15MHz	16QAM	20825	75RB#0	6.09	13	PASS
Band7	15MHz	QPSK	21100	1RB#0	5.39	13	PASS
Band7	15MHz	16QAM	21100	1RB#0	6.00	13	PASS
Band7	15MHz	QPSK	21100	75RB#0	5.74	13	PASS
Band7	15MHz	16QAM	21100	75RB#0	6.26	13	PASS
Band7	15MHz	QPSK	21375	1RB#0	5.45	13	PASS
Band7	15MHz	16QAM	21375	1RB#0	6.17	13	PASS
Band7	15MHz	QPSK	21375	75RB#0	5.74	13	PASS
Band7	15MHz	16QAM	21375	75RB#0	6.23	13	PASS
Band7	20MHz	QPSK	20850	1RB#0	4.99	13	PASS

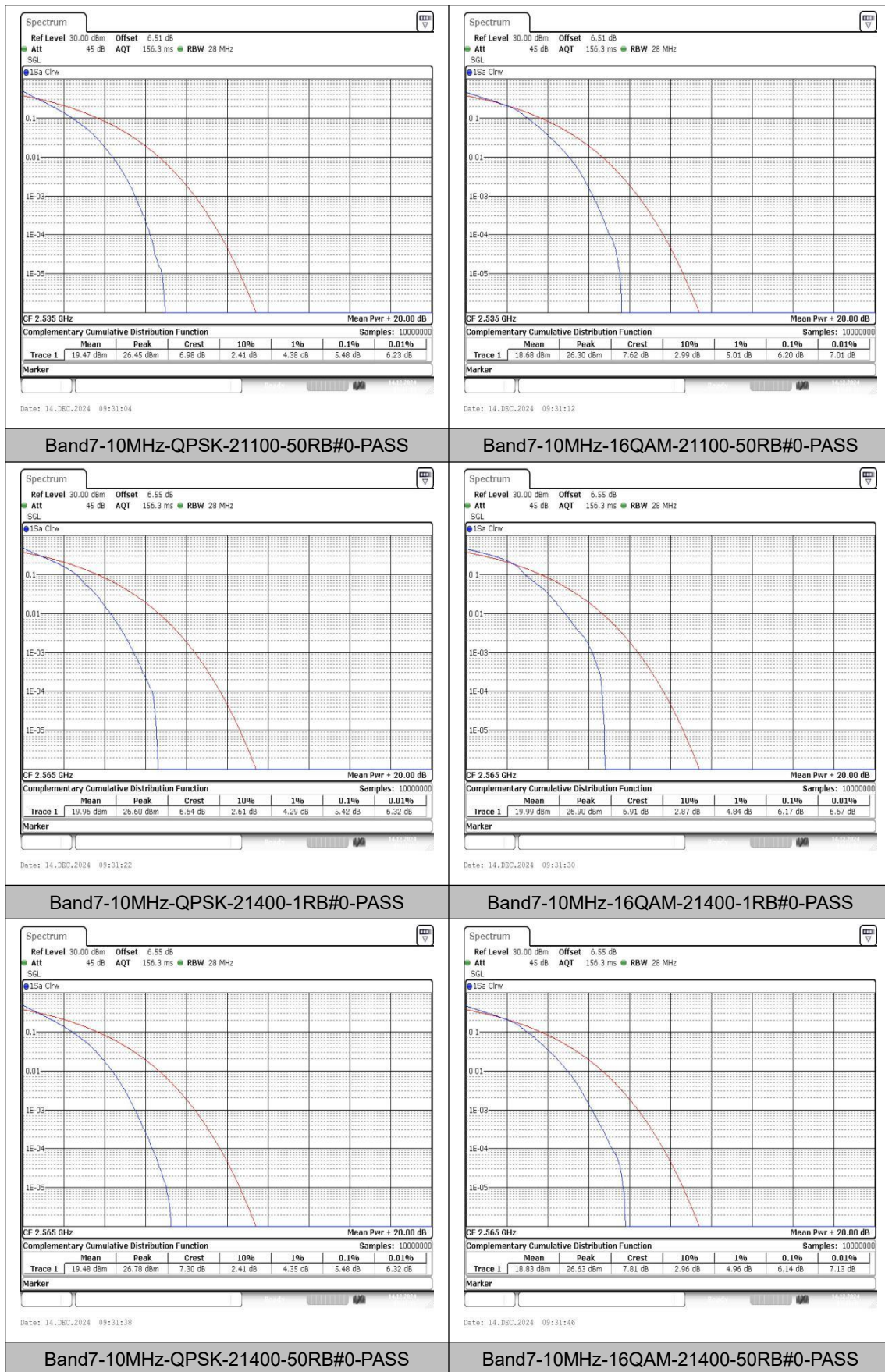
Band7	20MHz	16QAM	20850	1RB#0	5.42	13	PASS
Band7	20MHz	QPSK	20850	100RB#0	5.33	13	PASS
Band7	20MHz	16QAM	20850	100RB#0	6.09	13	PASS
Band7	20MHz	QPSK	21100	1RB#0	5.13	13	PASS
Band7	20MHz	16QAM	21100	1RB#0	5.62	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	5.51	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	6.20	13	PASS
Band7	20MHz	QPSK	21350	1RB#0	5.45	13	PASS
Band7	20MHz	16QAM	21350	1RB#0	6.06	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	5.51	13	PASS
Band7	20MHz	16QAM	21350	100RB#0	6.17	13	PASS

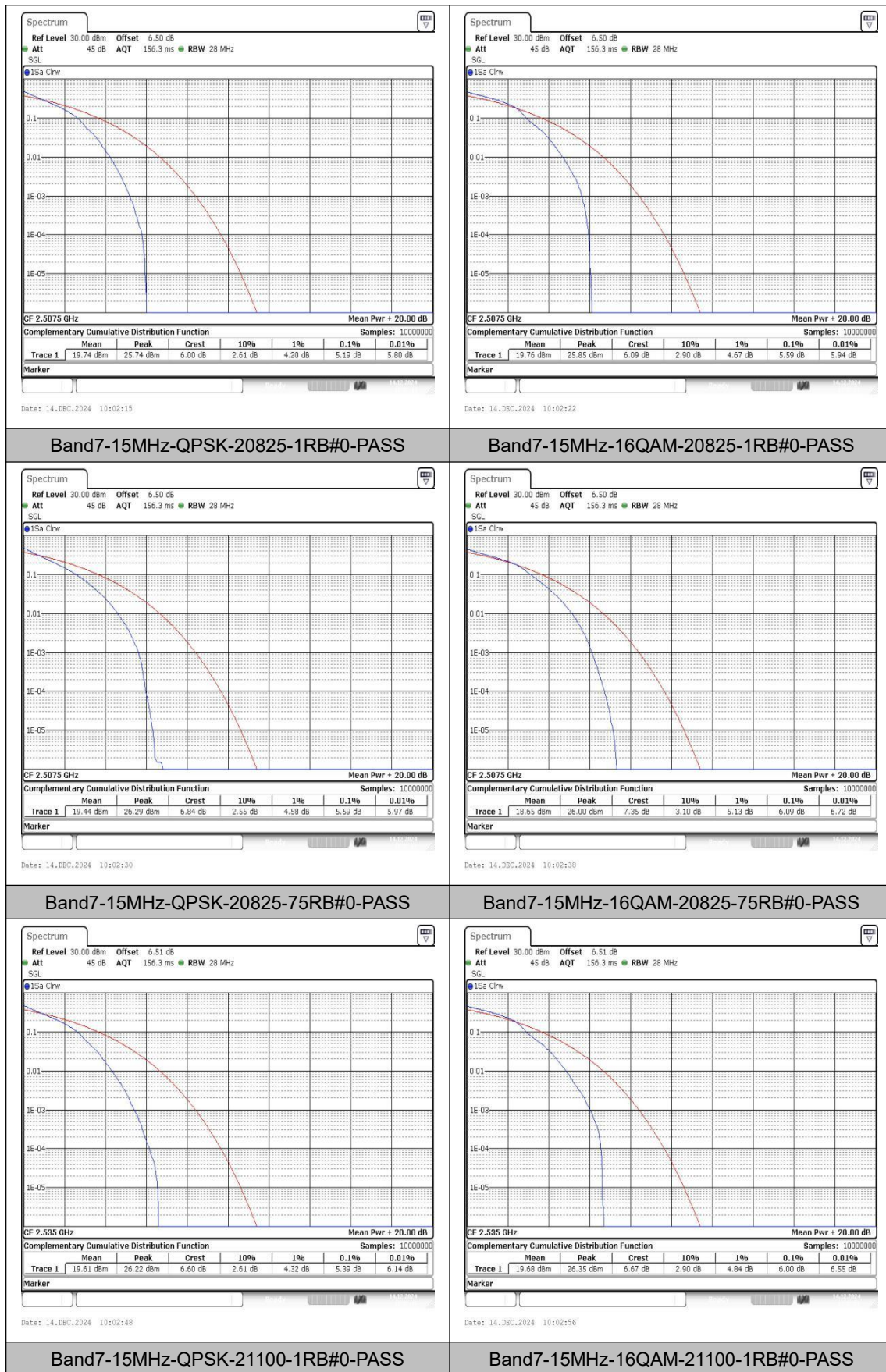
Test Graphs

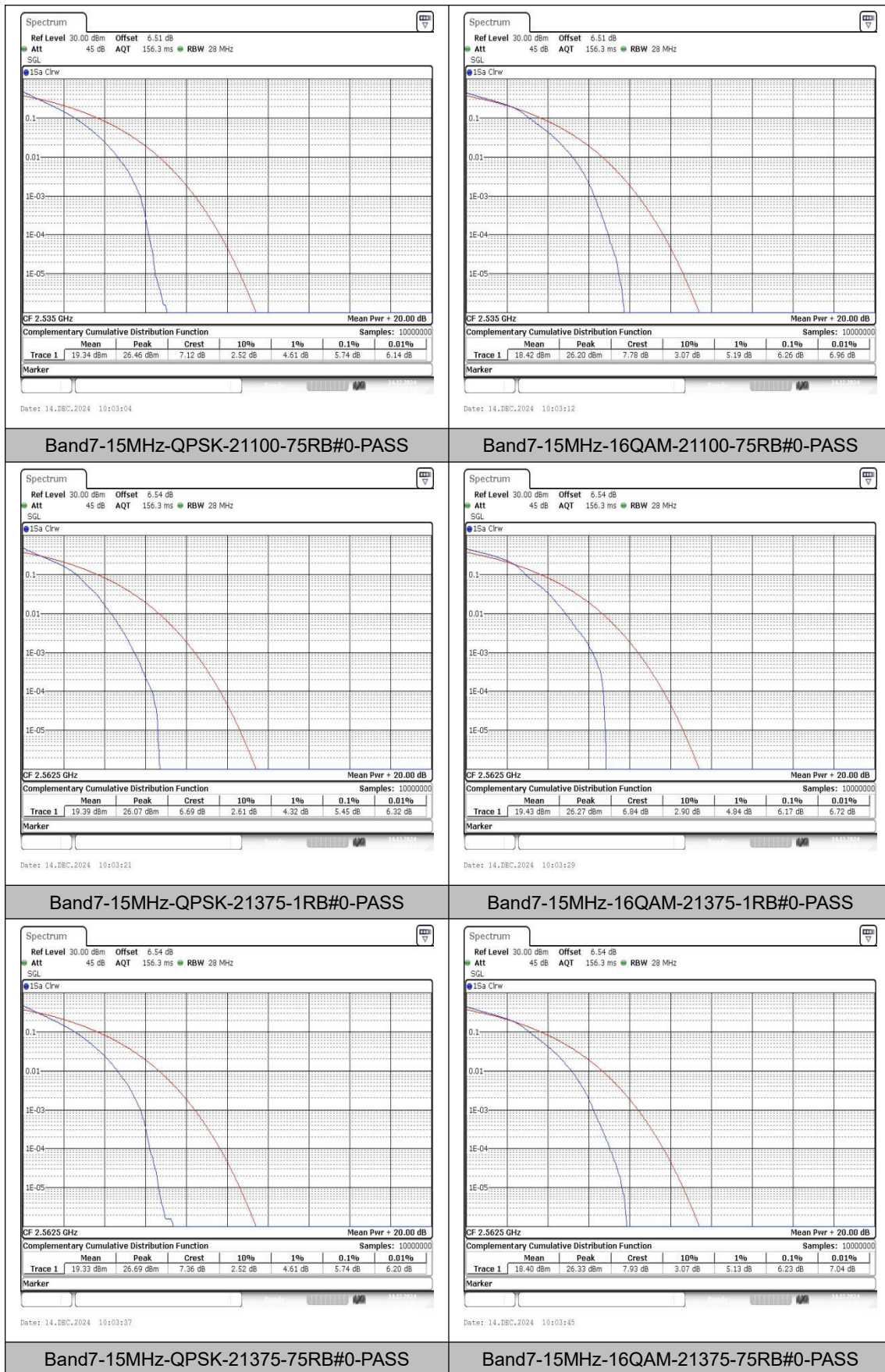


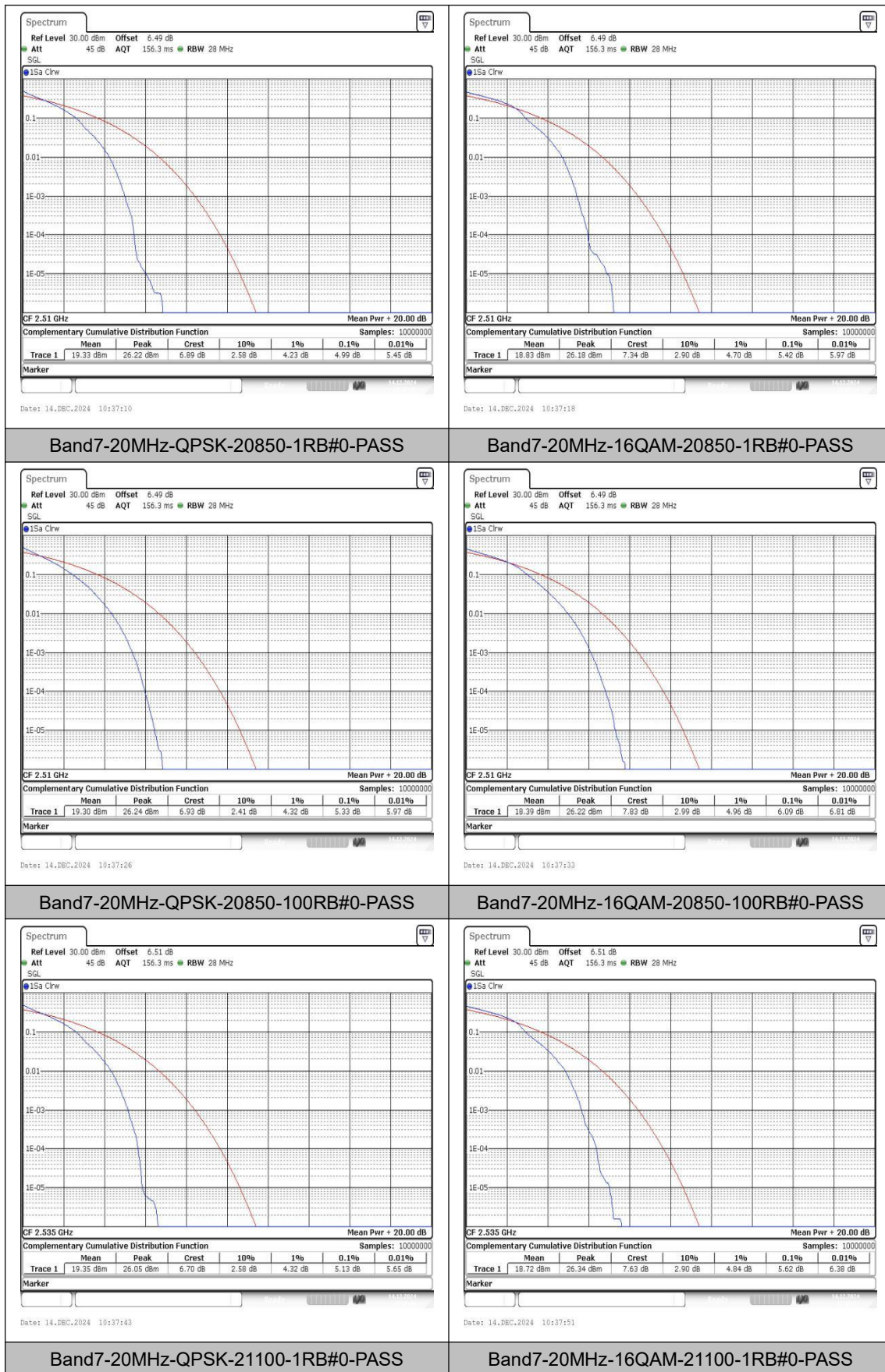


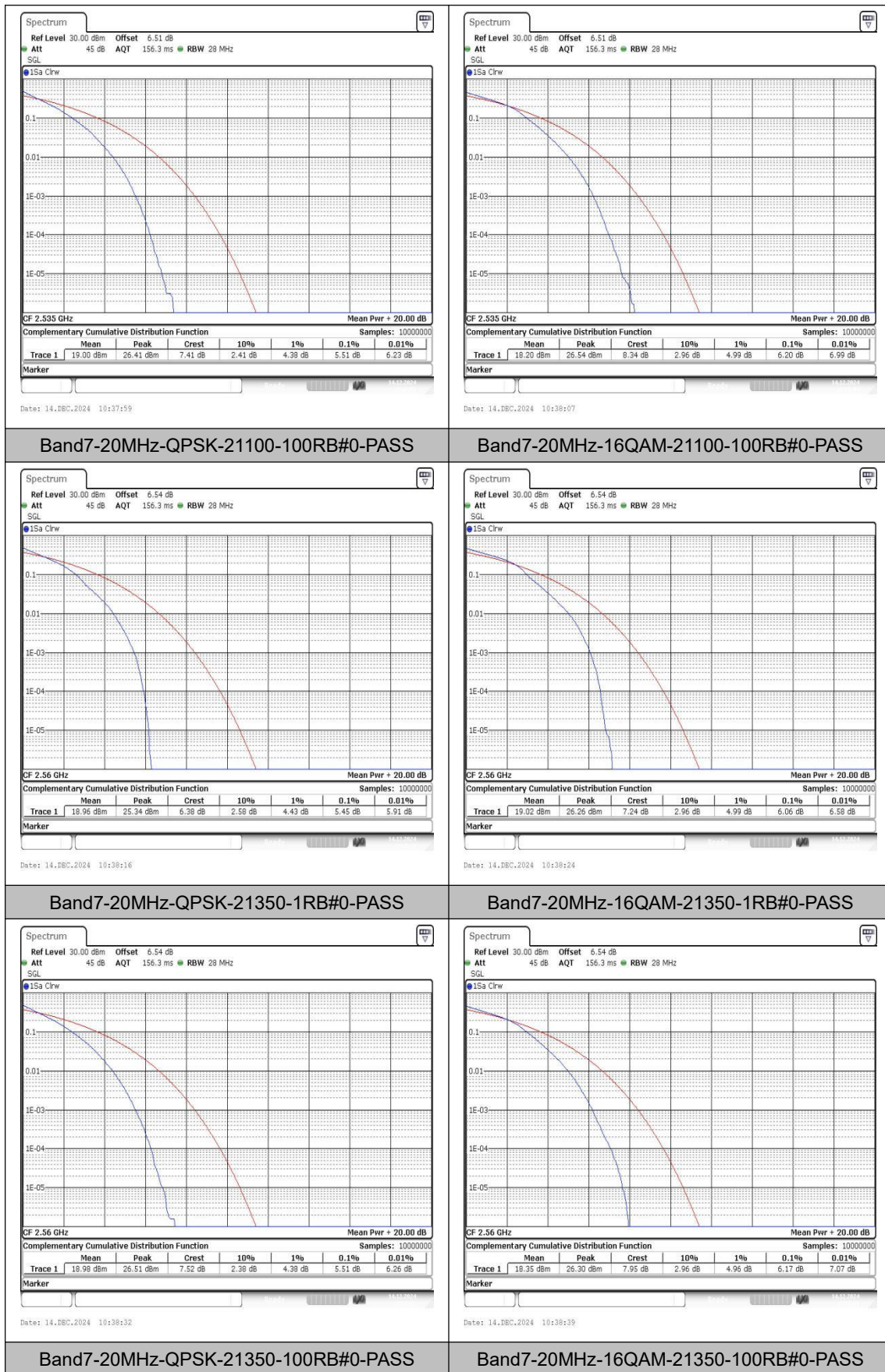












Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	4.505	4.97	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.515	4.99	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.505	5.00	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.505	4.99	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.505	5.00	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.505	4.99	PASS
Band7	10MHz	QPSK	20800	50RB#0	8.985	9.97	PASS
Band7	10MHz	16QAM	20800	50RB#0	8.985	9.97	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.985	9.93	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.985	10.00	PASS
Band7	10MHz	QPSK	21400	50RB#0	9.018	9.93	PASS
Band7	10MHz	16QAM	21400	50RB#0	9.018	9.97	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.527	15.05	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.478	14.95	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.478	15.10	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.478	15.05	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.478	15.05	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.527	15.05	PASS
Band7	20MHz	QPSK	20850	100RB#0	18.103	20.00	PASS
Band7	20MHz	16QAM	20850	100RB#0	18.037	20.00	PASS
Band7	20MHz	QPSK	21100	100RB#0	18.103	20.00	PASS
Band7	20MHz	16QAM	21100	100RB#0	18.103	20.00	PASS
Band7	20MHz	QPSK	21350	100RB#0	18.103	20.20	PASS
Band7	20MHz	16QAM	21350	100RB#0	18.103	20.00	PASS

Test Graphs

