

FCC LTE Band Test Data

FCC ID : 2BHFT-T29-CEV

Company: : HANGZHOU HUIJIECHELIAN TECHNOLOGY CO., LTD

EUT : Vehicle Terminal T-BOX

Model Number : T29-CEV

Reviewed By : Eric Wang

Appendix A: Conducted Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	16.21	PASS
Band7	5MHz	QPSK	20775	1RB#12	17.02	PASS
Band7	5MHz	QPSK	20775	1RB#24	17.34	PASS
Band7	5MHz	QPSK	20775	12RB#0	15.82	PASS
Band7	5MHz	QPSK	20775	12RB#6	15.87	PASS
Band7	5MHz	QPSK	20775	12RB#13	16.45	PASS
Band7	5MHz	QPSK	20775	25RB#0	16.12	PASS
Band7	5MHz	QPSK	21100	1RB#0	15.57	PASS
Band7	5MHz	QPSK	21100	1RB#12	15.77	PASS
Band7	5MHz	QPSK	21100	1RB#24	15.97	PASS
Band7	5MHz	QPSK	21100	12RB#0	14.79	PASS
Band7	5MHz	QPSK	21100	12RB#6	14.78	PASS
Band7	5MHz	QPSK	21100	12RB#13	15.12	PASS
Band7	5MHz	QPSK	21100	25RB#0	15.01	PASS
Band7	5MHz	QPSK	21425	1RB#0	14.58	PASS
Band7	5MHz	QPSK	21425	1RB#12	14.13	PASS
Band7	5MHz	QPSK	21425	1RB#24	13.80	PASS
Band7	5MHz	QPSK	21425	12RB#0	13.41	PASS
Band7	5MHz	QPSK	21425	12RB#6	13.44	PASS
Band7	5MHz	QPSK	21425	12RB#13	13.14	PASS
Band7	5MHz	QPSK	21425	25RB#0	13.31	PASS
Band7	5MHz	16QAM	20775	1RB#0	15.22	PASS
Band7	5MHz	16QAM	20775	1RB#12	15.93	PASS
Band7	5MHz	16QAM	20775	1RB#24	16.30	PASS
Band7	5MHz	16QAM	20775	12RB#0	14.91	PASS
Band7	5MHz	16QAM	20775	12RB#6	14.99	PASS
Band7	5MHz	16QAM	20775	12RB#13	15.51	PASS
Band7	5MHz	16QAM	20775	25RB#0	15.15	PASS
Band7	5MHz	16QAM	21100	1RB#0	14.50	PASS
Band7	5MHz	16QAM	21100	1RB#12	14.76	PASS
Band7	5MHz	16QAM	21100	1RB#24	15.06	PASS
Band7	5MHz	16QAM	21100	12RB#0	13.87	PASS
Band7	5MHz	16QAM	21100	12RB#6	13.87	PASS
Band7	5MHz	16QAM	21100	12RB#13	14.19	PASS
Band7	5MHz	16QAM	21100	25RB#0	14.10	PASS
Band7	5MHz	16QAM	21425	1RB#0	13.34	PASS

Band7	5MHz	16QAM	21425	1RB#12	13.09	PASS
Band7	5MHz	16QAM	21425	1RB#24	12.91	PASS
Band7	5MHz	16QAM	21425	12RB#0	12.58	PASS
Band7	5MHz	16QAM	21425	12RB#6	12.58	PASS
Band7	5MHz	16QAM	21425	12RB#13	12.27	PASS
Band7	5MHz	16QAM	21425	25RB#0	12.46	PASS
Band7	10MHz	QPSK	20800	1RB#0	16.60	PASS
Band7	10MHz	QPSK	20800	1RB#24	17.97	PASS
Band7	10MHz	QPSK	20800	1RB#49	17.48	PASS
Band7	10MHz	QPSK	20800	25RB#0	16.61	PASS
Band7	10MHz	QPSK	20800	25RB#12	16.68	PASS
Band7	10MHz	QPSK	20800	25RB#25	17.15	PASS
Band7	10MHz	QPSK	20800	50RB#0	16.91	PASS
Band7	10MHz	QPSK	21100	1RB#0	15.53	PASS
Band7	10MHz	QPSK	21100	1RB#24	15.85	PASS
Band7	10MHz	QPSK	21100	1RB#49	16.60	PASS
Band7	10MHz	QPSK	21100	25RB#0	14.93	PASS
Band7	10MHz	QPSK	21100	25RB#12	14.92	PASS
Band7	10MHz	QPSK	21100	25RB#25	15.57	PASS
Band7	10MHz	QPSK	21100	50RB#0	15.30	PASS
Band7	10MHz	QPSK	21400	1RB#0	15.52	PASS
Band7	10MHz	QPSK	21400	1RB#24	14.56	PASS
Band7	10MHz	QPSK	21400	1RB#49	13.87	PASS
Band7	10MHz	QPSK	21400	25RB#0	14.14	PASS
Band7	10MHz	QPSK	21400	25RB#12	14.20	PASS
Band7	10MHz	QPSK	21400	25RB#25	13.48	PASS
Band7	10MHz	QPSK	21400	50RB#0	14.07	PASS
Band7	10MHz	16QAM	20800	1RB#0	15.75	PASS
Band7	10MHz	16QAM	20800	1RB#24	17.13	PASS
Band7	10MHz	16QAM	20800	1RB#49	16.66	PASS
Band7	10MHz	16QAM	20800	25RB#0	15.70	PASS
Band7	10MHz	16QAM	20800	25RB#12	15.70	PASS
Band7	10MHz	16QAM	20800	25RB#25	16.19	PASS
Band7	10MHz	16QAM	21100	1RB#0	14.47	PASS
Band7	10MHz	16QAM	21100	1RB#24	15.06	PASS
Band7	10MHz	16QAM	21100	1RB#49	15.70	PASS
Band7	10MHz	16QAM	21100	25RB#0	13.98	PASS
Band7	10MHz	16QAM	21100	25RB#12	14.00	PASS
Band7	10MHz	16QAM	21100	25RB#25	14.66	PASS
Band7	10MHz	16QAM	21400	1RB#0	14.51	PASS
Band7	10MHz	16QAM	21400	1RB#24	13.75	PASS
Band7	10MHz	16QAM	21400	1RB#49	13.01	PASS
Band7	10MHz	16QAM	21400	25RB#0	13.27	PASS

Band7	10MHz	16QAM	21400	25RB#12	13.29	PASS
Band7	10MHz	16QAM	21400	25RB#25	12.59	PASS
Band7	15MHz	QPSK	20825	1RB#0	16.77	PASS
Band7	15MHz	QPSK	20825	1RB#38	17.83	PASS
Band7	15MHz	QPSK	20825	1RB#74	17.05	PASS
Band7	15MHz	QPSK	20825	38RB#0	16.74	PASS
Band7	15MHz	QPSK	20825	38RB#18	16.72	PASS
Band7	15MHz	QPSK	20825	38RB#37	16.72	PASS
Band7	15MHz	QPSK	20825	75RB#0	16.74	PASS
Band7	15MHz	QPSK	21100	1RB#0	15.52	PASS
Band7	15MHz	QPSK	21100	1RB#38	16.04	PASS
Band7	15MHz	QPSK	21100	1RB#74	16.95	PASS
Band7	15MHz	QPSK	21100	38RB#0	15.21	PASS
Band7	15MHz	QPSK	21100	38RB#18	15.16	PASS
Band7	15MHz	QPSK	21100	38RB#37	15.16	PASS
Band7	15MHz	QPSK	21100	75RB#0	15.34	PASS
Band7	15MHz	QPSK	21375	1RB#0	16.51	PASS
Band7	15MHz	QPSK	21375	1RB#38	15.09	PASS
Band7	15MHz	QPSK	21375	1RB#74	14.00	PASS
Band7	15MHz	QPSK	21375	38RB#0	14.39	PASS
Band7	15MHz	QPSK	21375	38RB#18	14.48	PASS
Band7	15MHz	QPSK	21375	38RB#37	14.47	PASS
Band7	15MHz	QPSK	21375	75RB#0	14.62	PASS
Band7	15MHz	16QAM	20825	1RB#0	15.90	PASS
Band7	15MHz	16QAM	20825	1RB#38	17.03	PASS
Band7	15MHz	16QAM	20825	1RB#74	16.18	PASS
Band7	15MHz	16QAM	20825	38RB#0	16.72	PASS
Band7	15MHz	16QAM	20825	38RB#18	16.72	PASS
Band7	15MHz	16QAM	20825	38RB#37	16.71	PASS
Band7	15MHz	16QAM	21100	1RB#0	14.49	PASS
Band7	15MHz	16QAM	21100	1RB#38	15.11	PASS
Band7	15MHz	16QAM	21100	1RB#74	16.10	PASS
Band7	15MHz	16QAM	21100	38RB#0	15.17	PASS
Band7	15MHz	16QAM	21100	38RB#18	15.15	PASS
Band7	15MHz	16QAM	21100	38RB#37	15.15	PASS
Band7	15MHz	16QAM	21375	1RB#0	15.54	PASS
Band7	15MHz	16QAM	21375	1RB#38	14.30	PASS
Band7	15MHz	16QAM	21375	1RB#74	13.17	PASS
Band7	15MHz	16QAM	21375	38RB#0	14.49	PASS
Band7	15MHz	16QAM	21375	38RB#18	14.48	PASS
Band7	15MHz	16QAM	21375	38RB#37	14.45	PASS
Band7	20MHz	QPSK	20850	1RB#0	16.80	PASS
Band7	20MHz	QPSK	20850	1RB#49	17.74	PASS

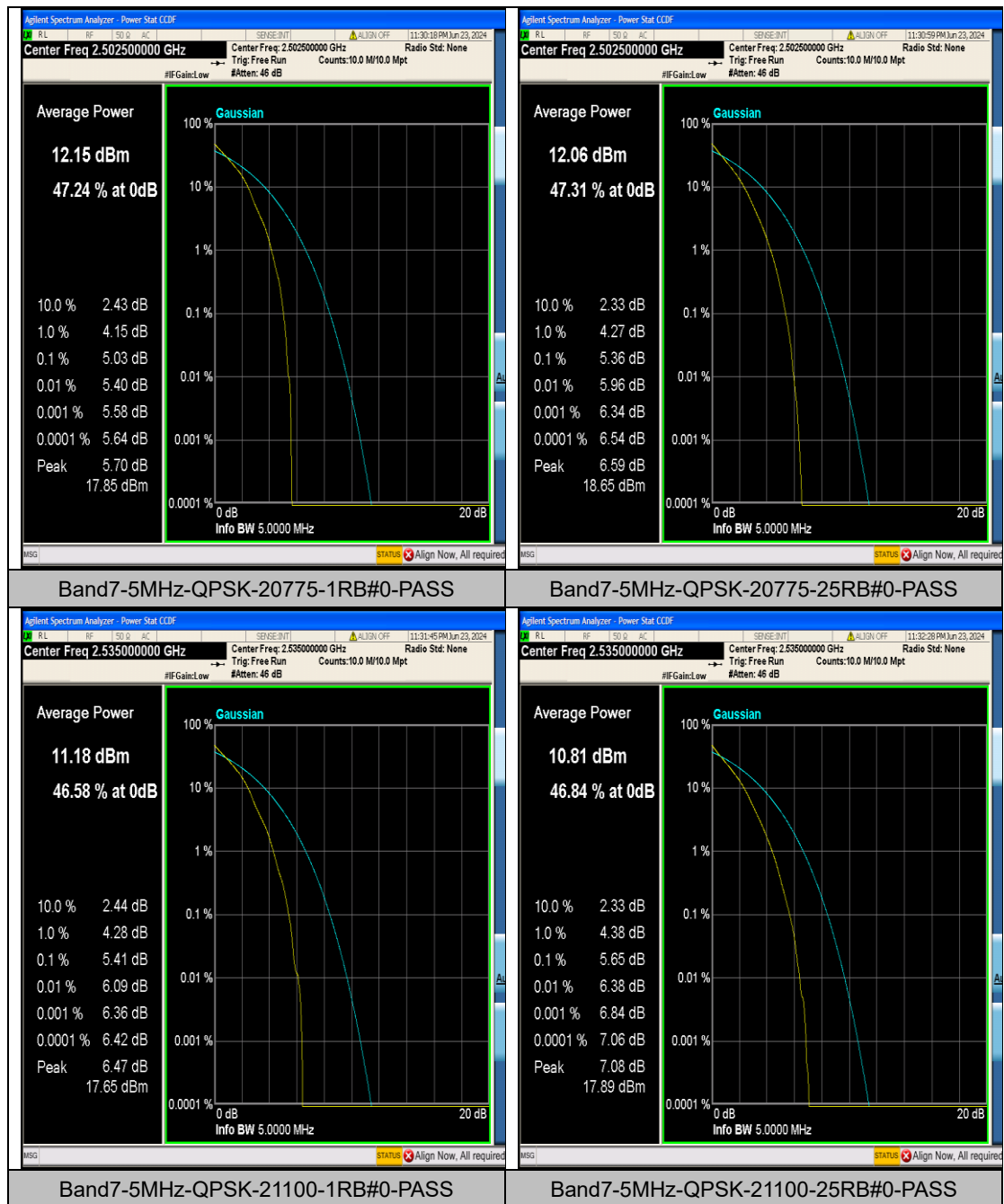
Band7	20MHz	QPSK	20850	1RB#99	16.16	PASS
Band7	20MHz	QPSK	20850	50RB#0	16.62	PASS
Band7	20MHz	QPSK	20850	50RB#25	16.60	PASS
Band7	20MHz	QPSK	20850	50RB#50	16.54	PASS
Band7	20MHz	QPSK	20850	100RB#0	16.50	PASS
Band7	20MHz	QPSK	21100	1RB#0	15.54	PASS
Band7	20MHz	QPSK	21100	1RB#49	16.01	PASS
Band7	20MHz	QPSK	21100	1RB#99	17.16	PASS
Band7	20MHz	QPSK	21100	50RB#0	14.82	PASS
Band7	20MHz	QPSK	21100	50RB#25	14.68	PASS
Band7	20MHz	QPSK	21100	50RB#50	16.02	PASS
Band7	20MHz	QPSK	21100	100RB#0	15.27	PASS
Band7	20MHz	QPSK	21350	1RB#0	17.17	PASS
Band7	20MHz	QPSK	21350	1RB#49	15.89	PASS
Band7	20MHz	QPSK	21350	1RB#99	14.08	PASS
Band7	20MHz	QPSK	21350	50RB#0	15.93	PASS
Band7	20MHz	QPSK	21350	50RB#25	15.73	PASS
Band7	20MHz	QPSK	21350	50RB#50	14.40	PASS
Band7	20MHz	QPSK	21350	100RB#0	15.01	PASS
Band7	20MHz	16QAM	20850	1RB#0	15.85	PASS
Band7	20MHz	16QAM	20850	1RB#49	16.78	PASS
Band7	20MHz	16QAM	20850	1RB#99	15.07	PASS
Band7	20MHz	16QAM	21100	1RB#0	14.46	PASS
Band7	20MHz	16QAM	21100	1RB#49	15.10	PASS
Band7	20MHz	16QAM	21100	1RB#99	16.11	PASS
Band7	20MHz	16QAM	21350	1RB#0	16.38	PASS
Band7	20MHz	16QAM	21350	1RB#49	15.04	PASS
Band7	20MHz	16QAM	21350	1RB#99	13.46	PASS

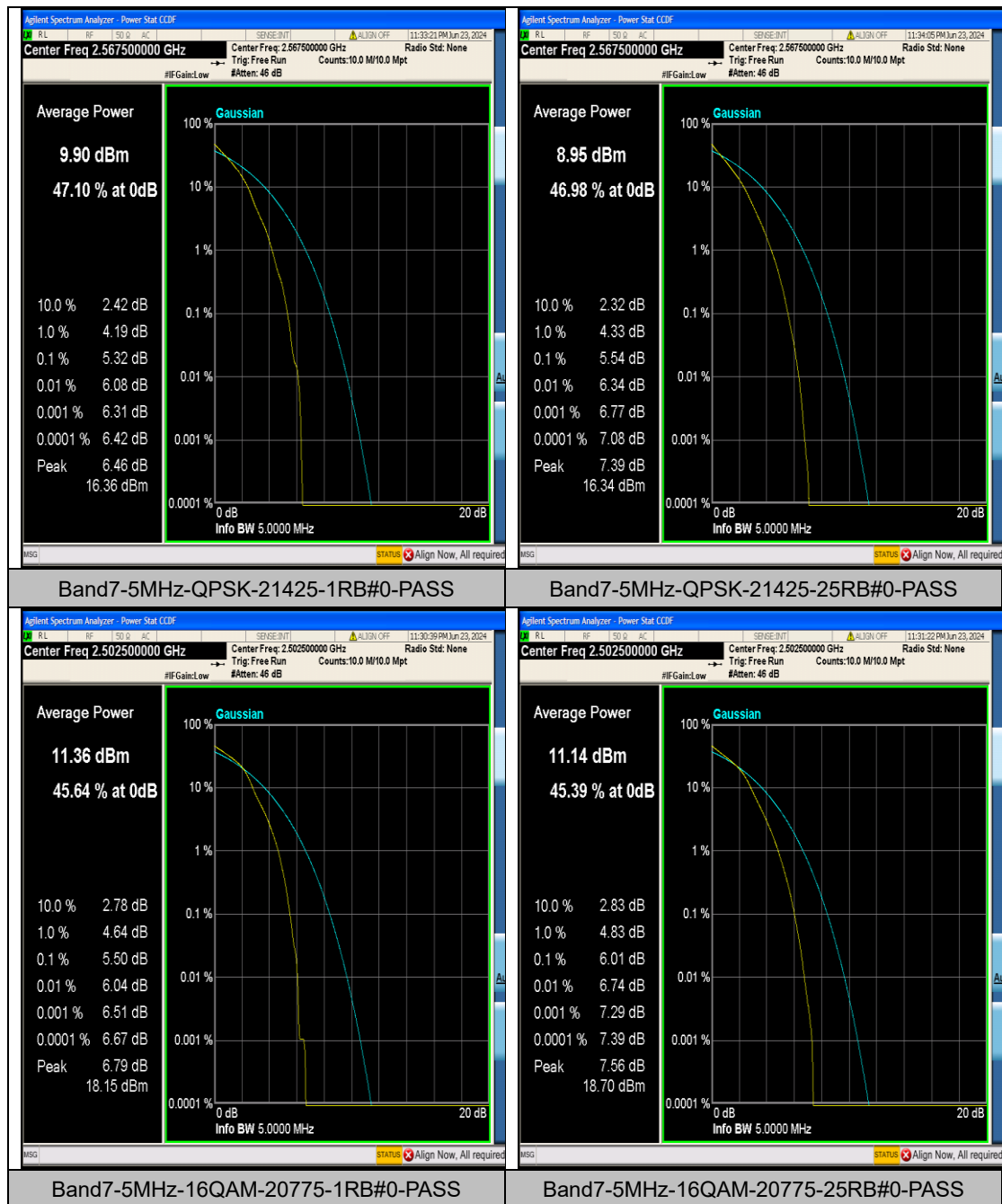
Appendix B: Peak-to-Average Ratio(CCDF)

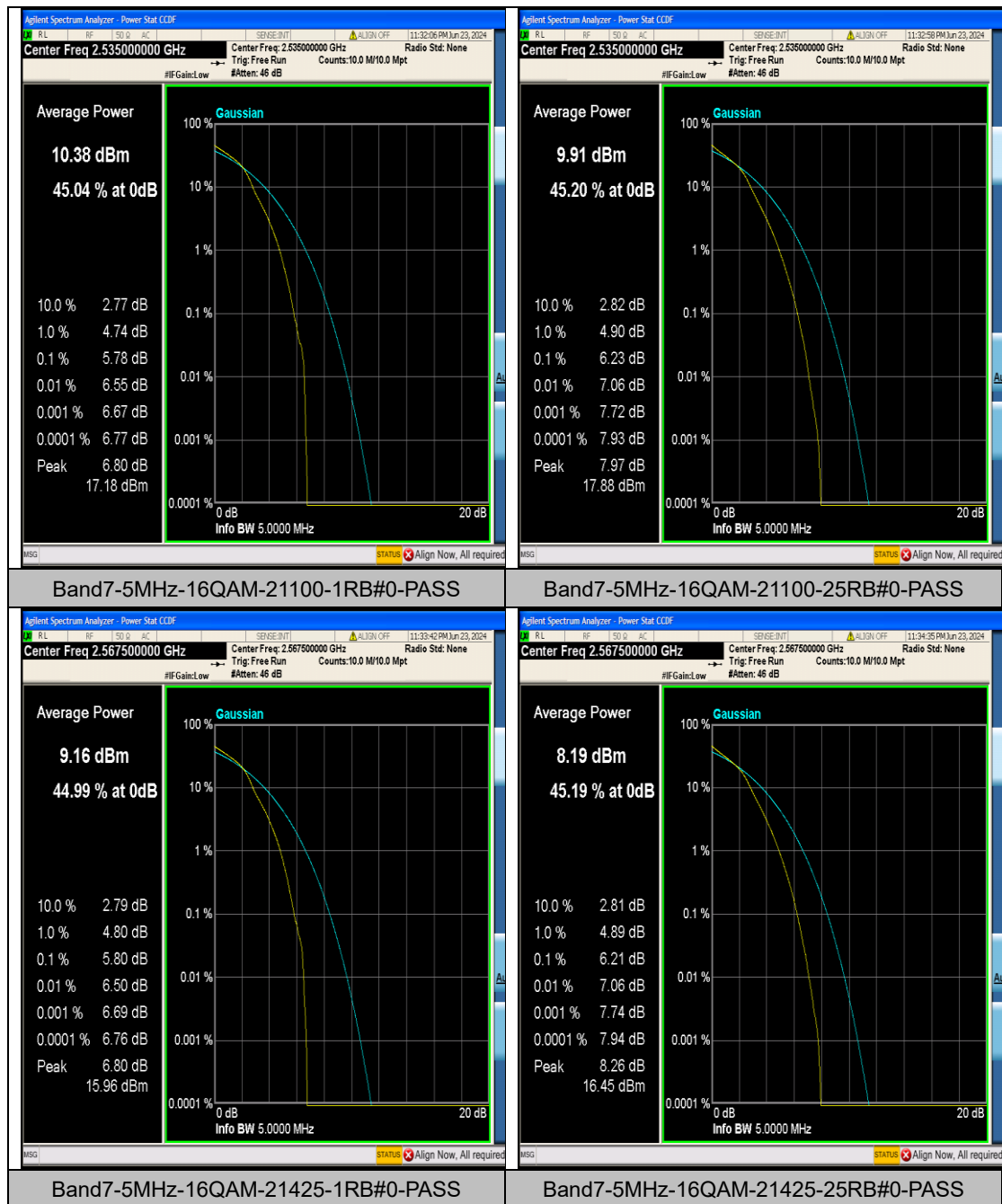
Test Result

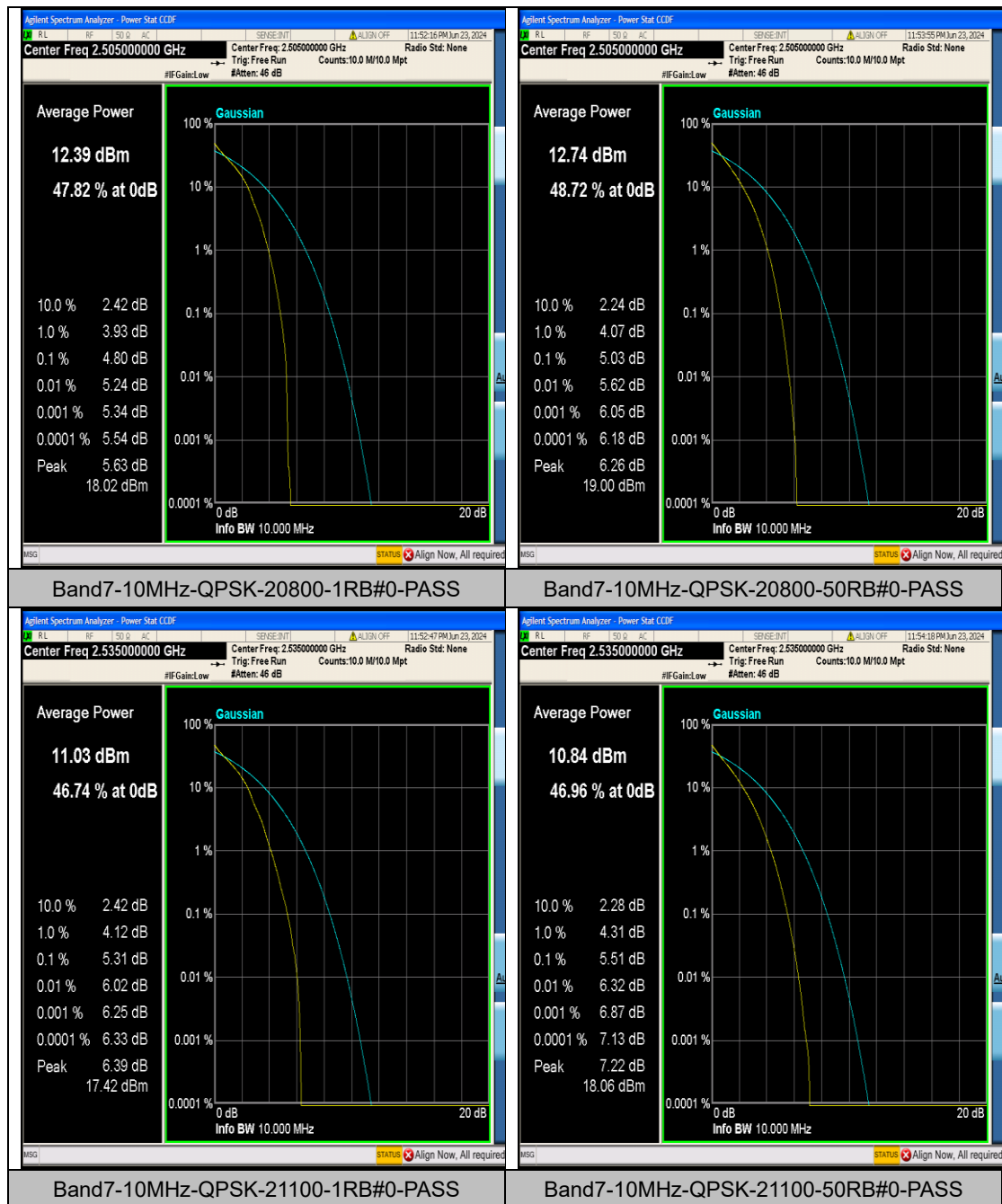
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	5.03	13	PASS
Band7	5MHz	QPSK	20775	25RB#0	5.36	13	PASS
Band7	5MHz	QPSK	21100	1RB#0	5.41	13	PASS
Band7	5MHz	QPSK	21100	25RB#0	5.65	13	PASS
Band7	5MHz	QPSK	21425	1RB#0	5.32	13	PASS
Band7	5MHz	QPSK	21425	25RB#0	5.54	13	PASS
Band7	5MHz	16QAM	20775	1RB#0	5.50	13	PASS
Band7	5MHz	16QAM	20775	25RB#0	6.01	13	PASS
Band7	5MHz	16QAM	21100	1RB#0	5.78	13	PASS
Band7	5MHz	16QAM	21100	25RB#0	6.23	13	PASS
Band7	5MHz	16QAM	21425	1RB#0	5.80	13	PASS
Band7	5MHz	16QAM	21425	25RB#0	6.21	13	PASS
Band7	10MHz	QPSK	20800	1RB#0	4.80	13	PASS
Band7	10MHz	QPSK	20800	50RB#0	5.03	13	PASS
Band7	10MHz	QPSK	21100	1RB#0	5.31	13	PASS
Band7	10MHz	QPSK	21100	50RB#0	5.51	13	PASS
Band7	10MHz	QPSK	21400	1RB#0	5.31	13	PASS
Band7	10MHz	QPSK	21400	50RB#0	5.53	13	PASS
Band7	10MHz	16QAM	20800	1RB#0	5.61	13	PASS
Band7	10MHz	16QAM	21100	1RB#0	6.22	13	PASS
Band7	10MHz	16QAM	21400	1RB#0	5.99	13	PASS
Band7	15MHz	QPSK	20825	1RB#0	4.72	13	PASS
Band7	15MHz	QPSK	20825	75RB#0	5.31	13	PASS
Band7	15MHz	QPSK	21100	1RB#0	5.29	13	PASS
Band7	15MHz	QPSK	21100	75RB#0	5.80	13	PASS
Band7	15MHz	QPSK	21375	1RB#0	4.86	13	PASS
Band7	15MHz	QPSK	21375	75RB#0	5.77	13	PASS
Band7	15MHz	16QAM	20825	1RB#0	5.52	13	PASS
Band7	15MHz	16QAM	21100	1RB#0	6.24	13	PASS
Band7	15MHz	16QAM	21375	1RB#0	5.61	13	PASS
Band7	20MHz	QPSK	20850	1RB#0	4.63	13	PASS
Band7	20MHz	QPSK	20850	100RB#0	5.12	13	PASS
Band7	20MHz	QPSK	21100	1RB#0	5.05	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	5.41	13	PASS
Band7	20MHz	QPSK	21350	1RB#0	4.17	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	5.44	13	PASS

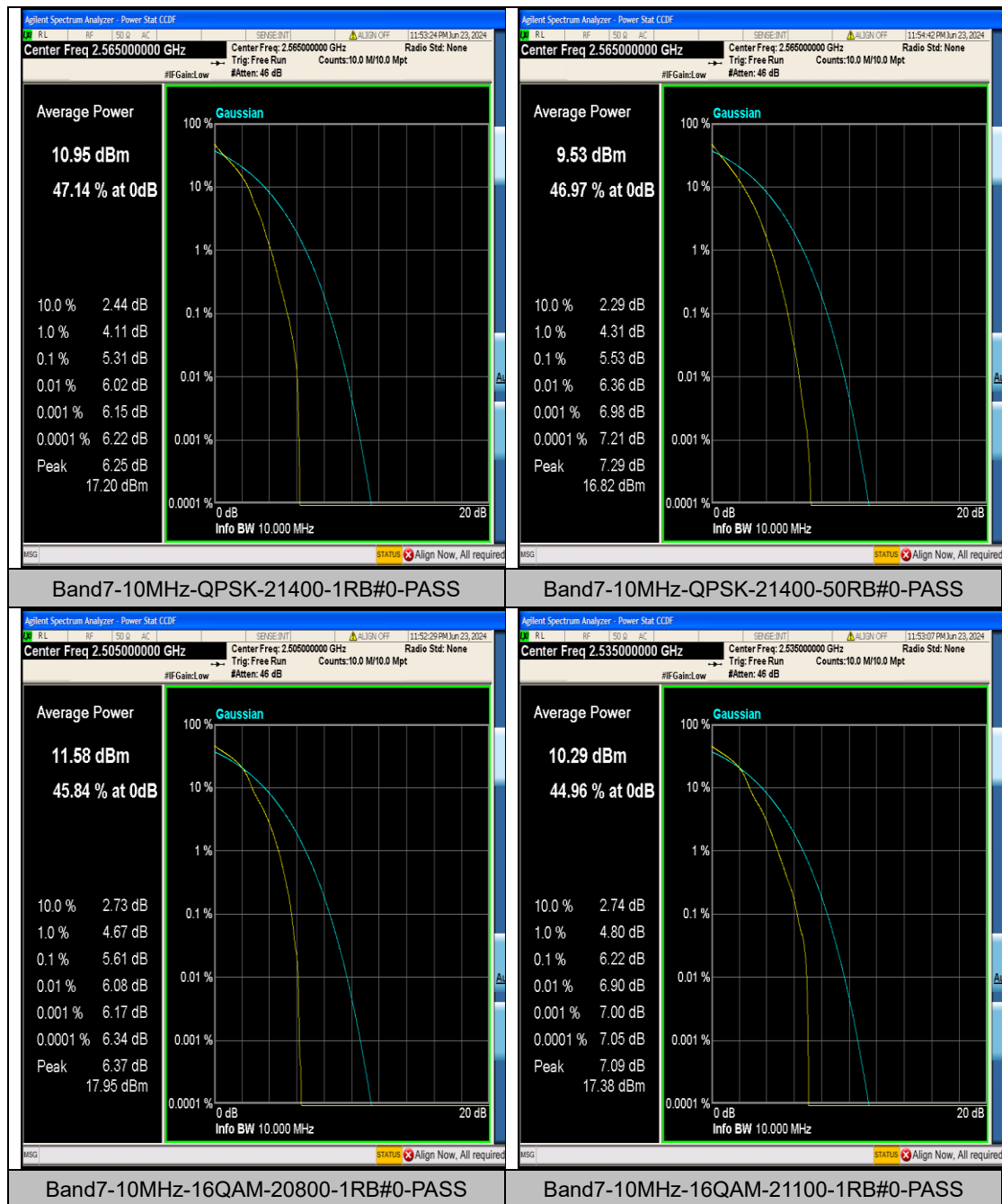
Test Graphs

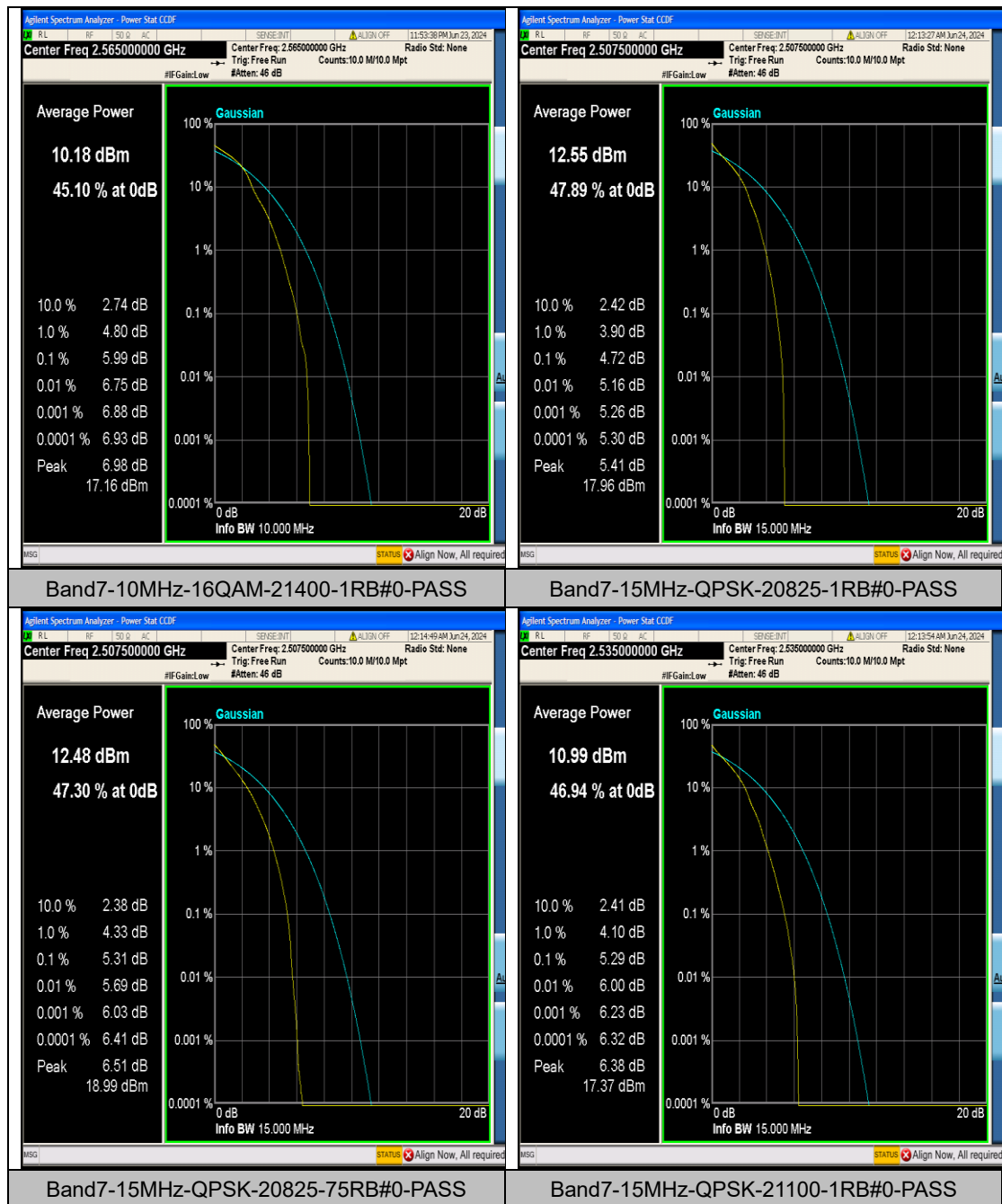


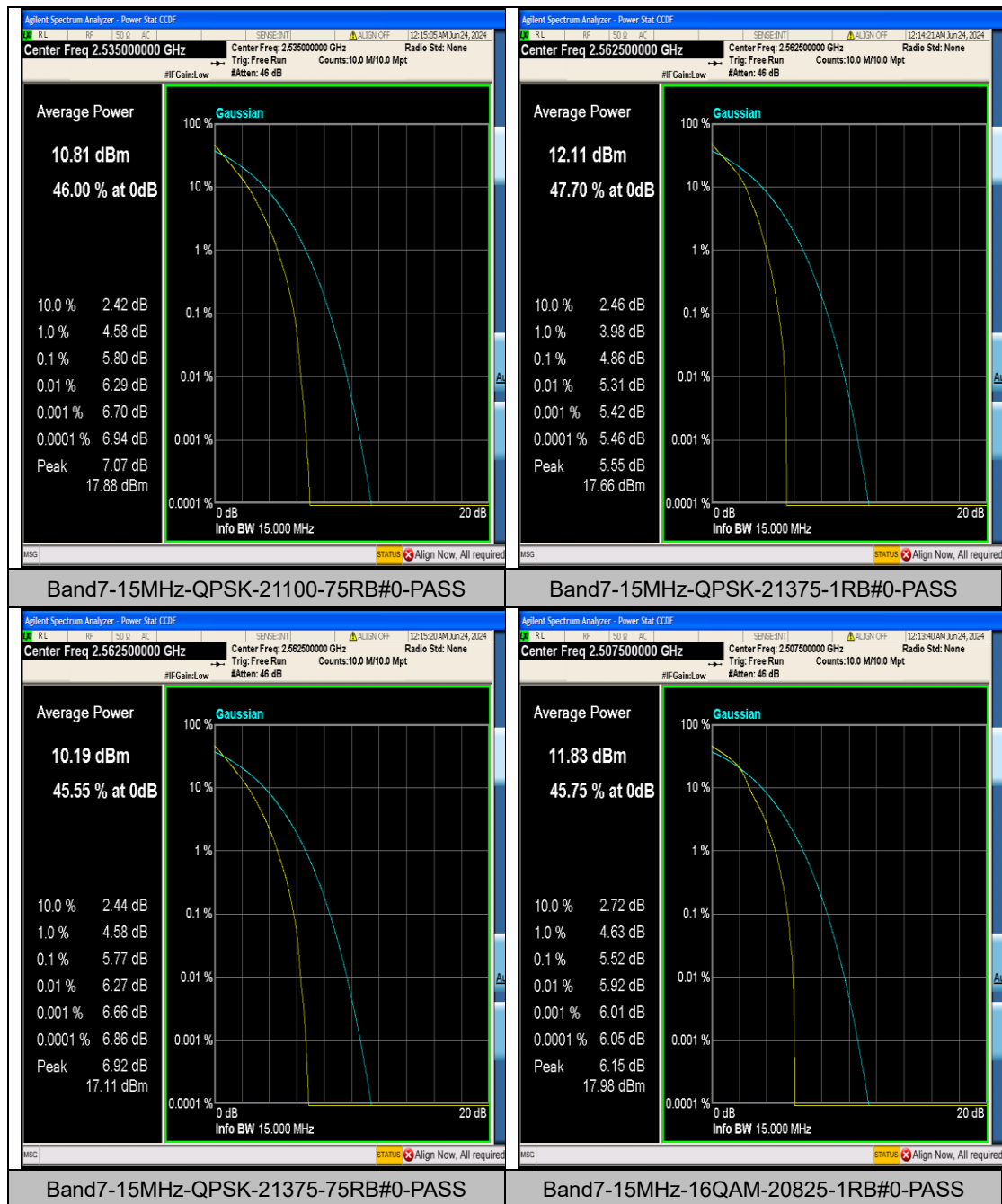


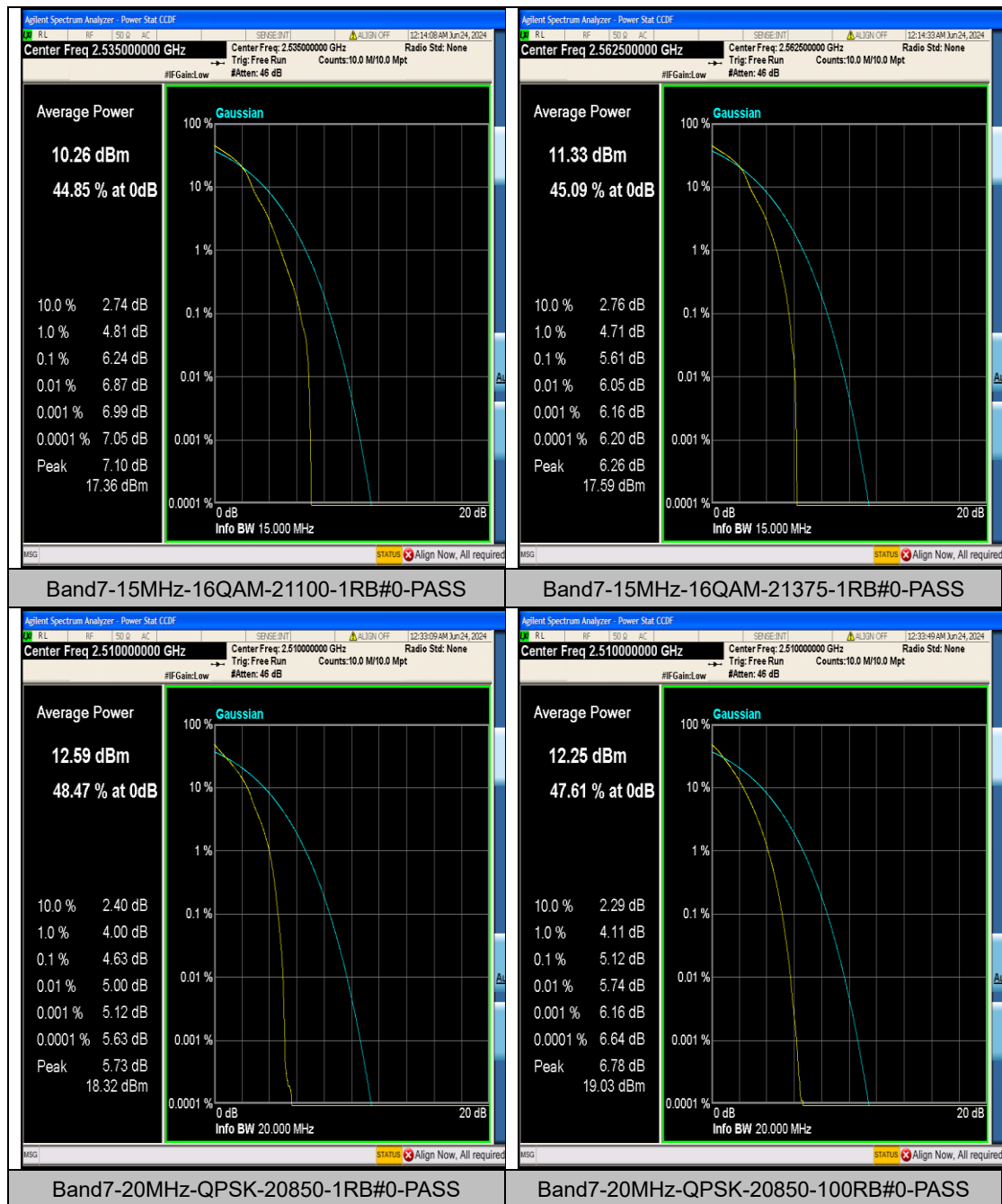


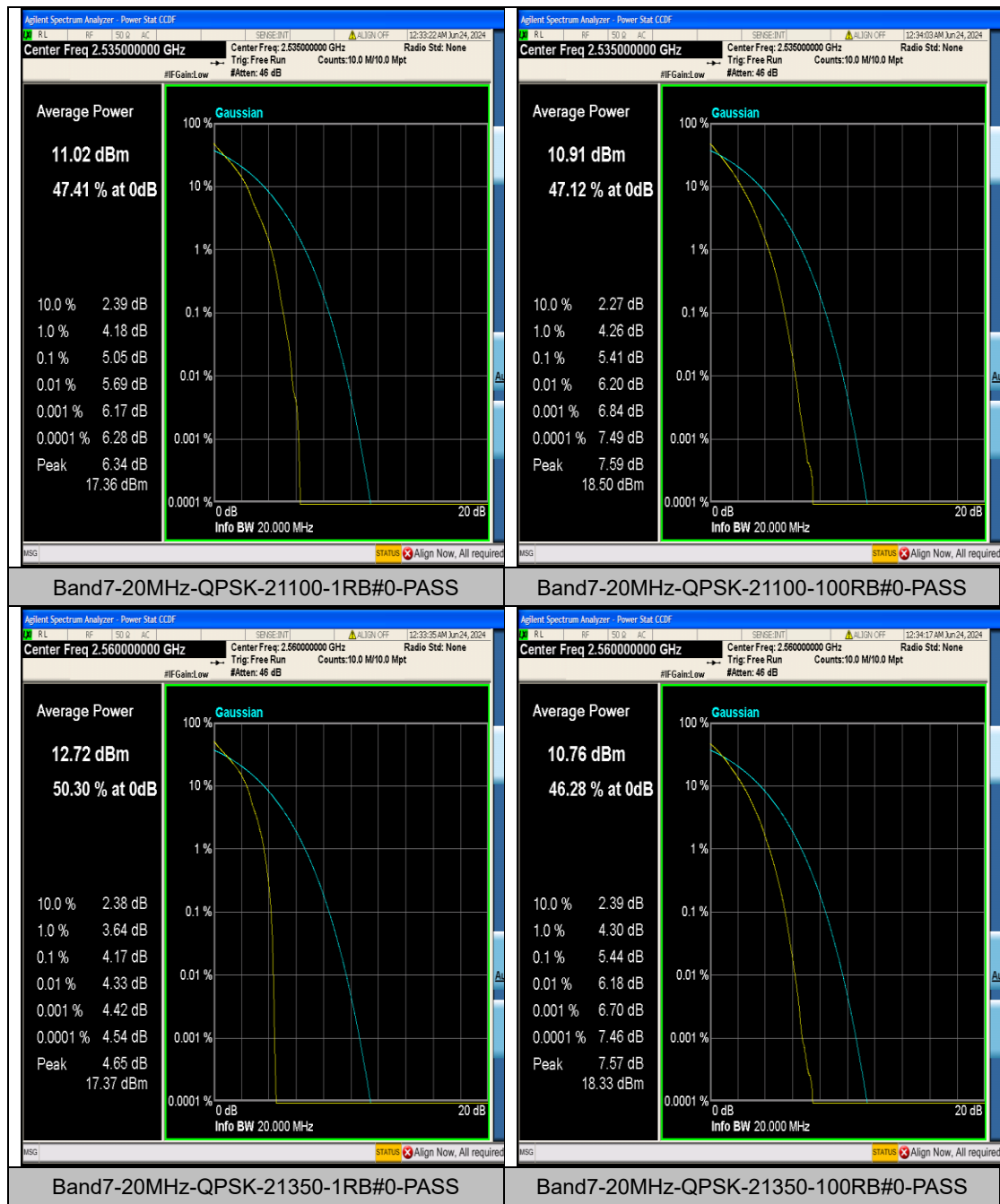










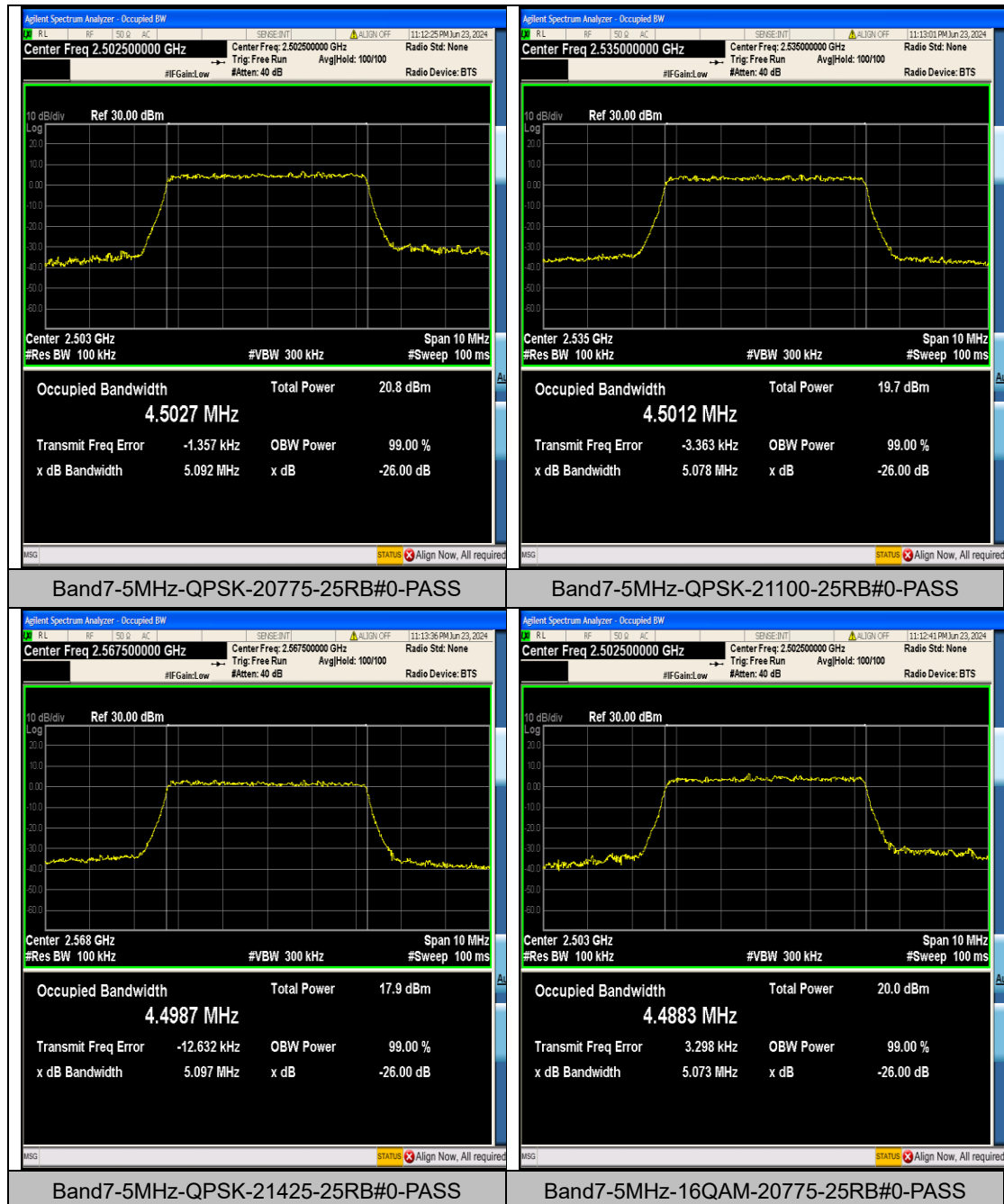


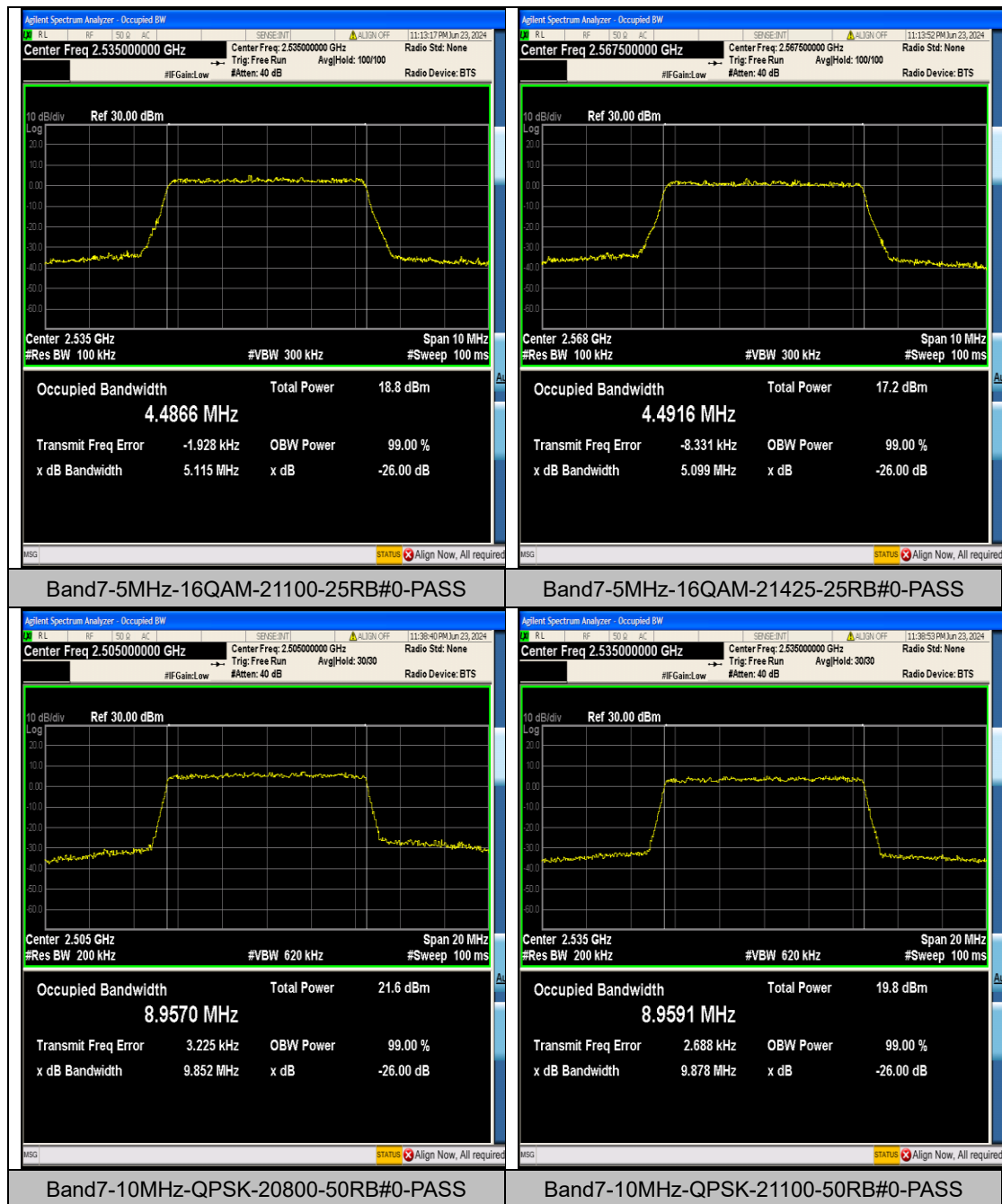
Appendix C: 26dB Bandwidth and Occupied Bandwidth

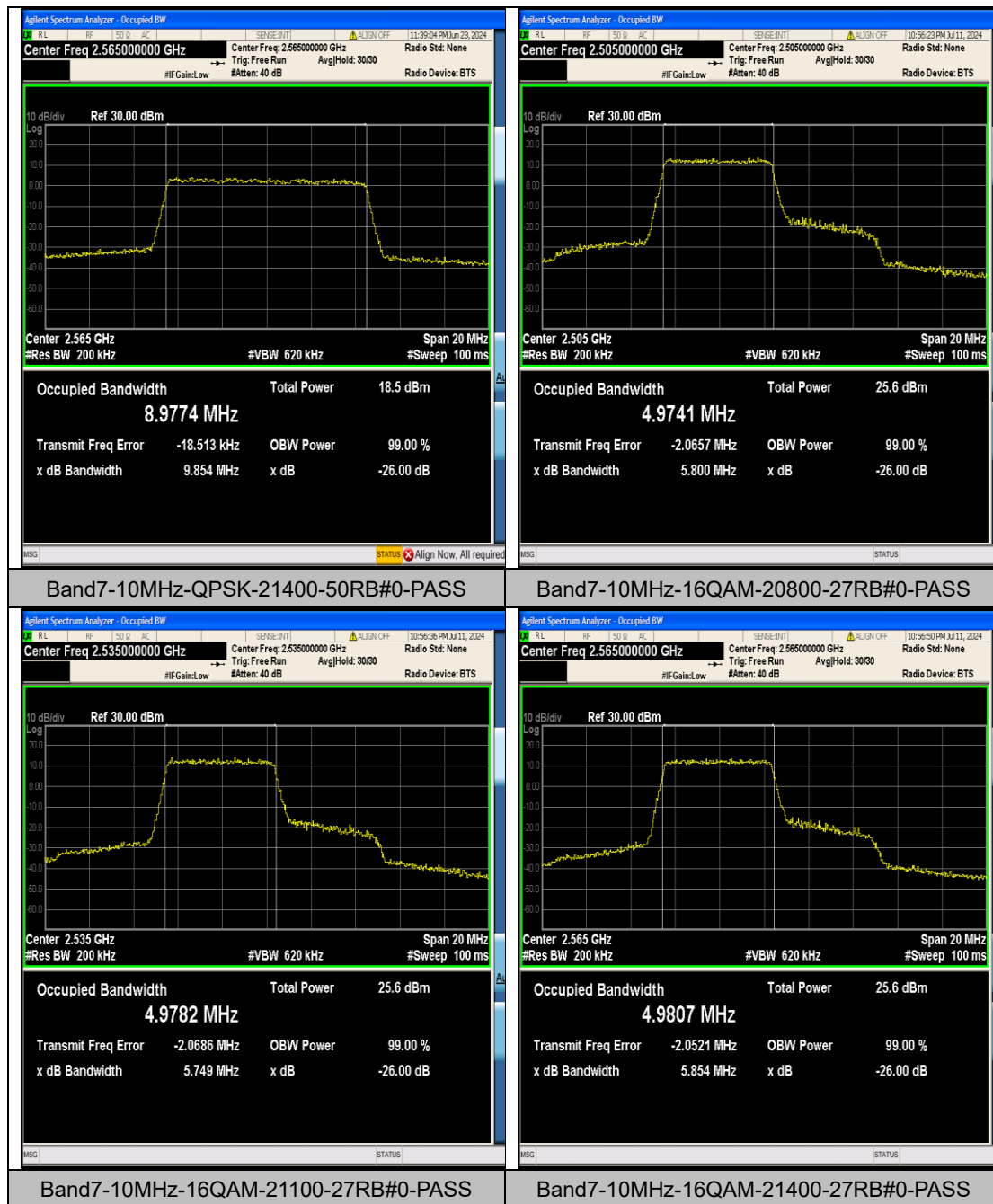
Test Result

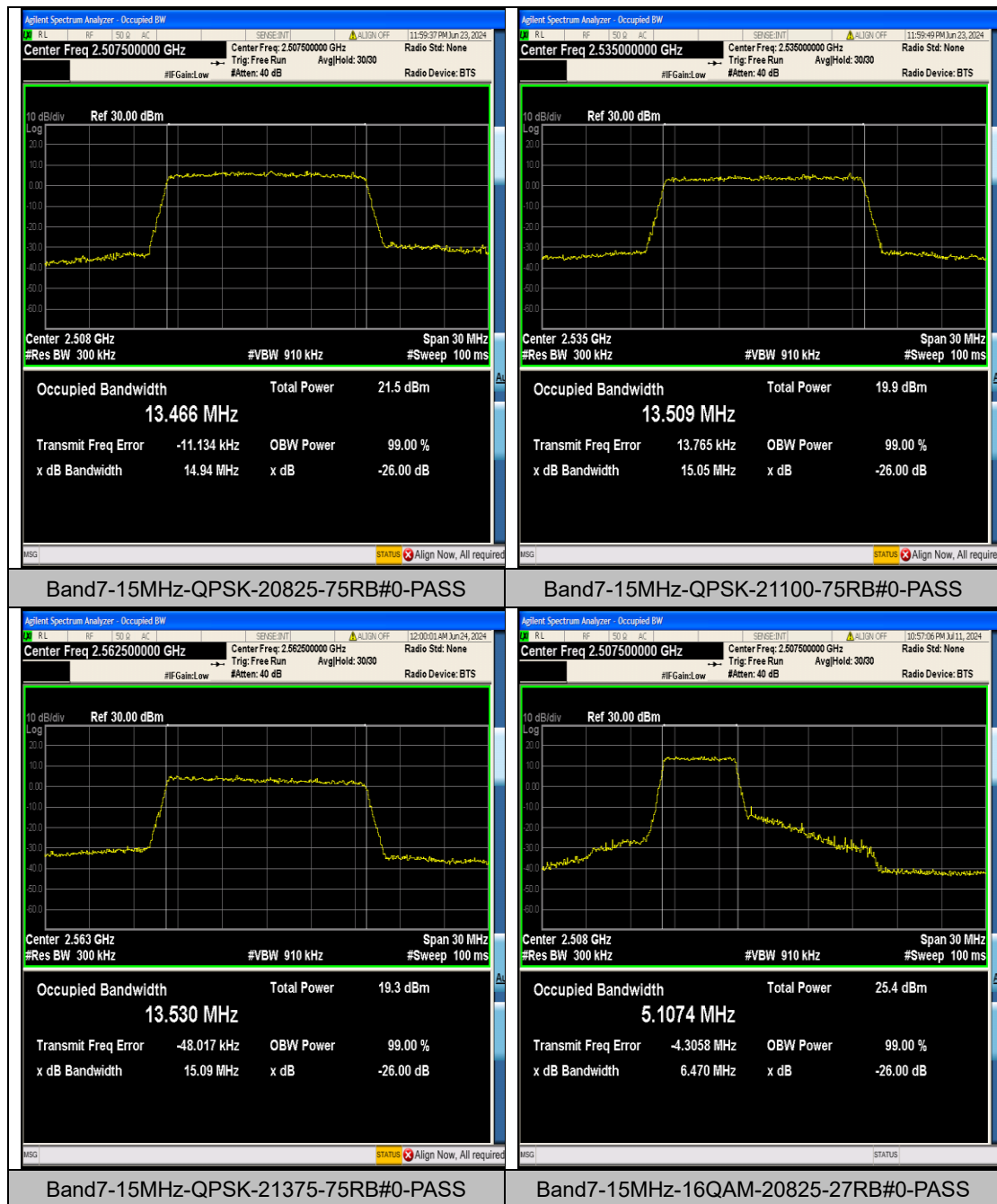
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	4.5027	5.092	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.5012	5.078	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.4987	5.097	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.4883	5.073	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.4866	5.115	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.4916	5.099	PASS
Band7	10MHz	QPSK	20800	50RB#0	8.9570	9.852	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.9591	9.878	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.9774	9.854	PASS
Band7	10MHz	16QAM	20800	27RB#0	4.9741	5.800	PASS
Band7	10MHz	16QAM	21100	27RB#0	4.9782	5.749	PASS
Band7	10MHz	16QAM	21400	27RB#0	4.9807	5.854	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.466	14.94	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.509	15.05	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.530	15.09	PASS
Band7	15MHz	16QAM	20825	27RB#0	5.1074	6.470	PASS
Band7	15MHz	16QAM	21100	27RB#0	5.1223	6.029	PASS
Band7	15MHz	16QAM	21375	27RB#0	5.1044	6.264	PASS
Band7	20MHz	QPSK	20850	100RB#0	17.877	19.37	PASS
Band7	20MHz	QPSK	21100	100RB#0	17.944	19.46	PASS
Band7	20MHz	QPSK	21350	100RB#0	17.953	19.60	PASS
Band7	20MHz	16QAM	20850	27RB#0	5.2389	6.596	PASS
Band7	20MHz	16QAM	21100	27RB#0	5.2925	6.967	PASS
Band7	20MHz	16QAM	21350	27RB#0	5.2407	6.441	PASS

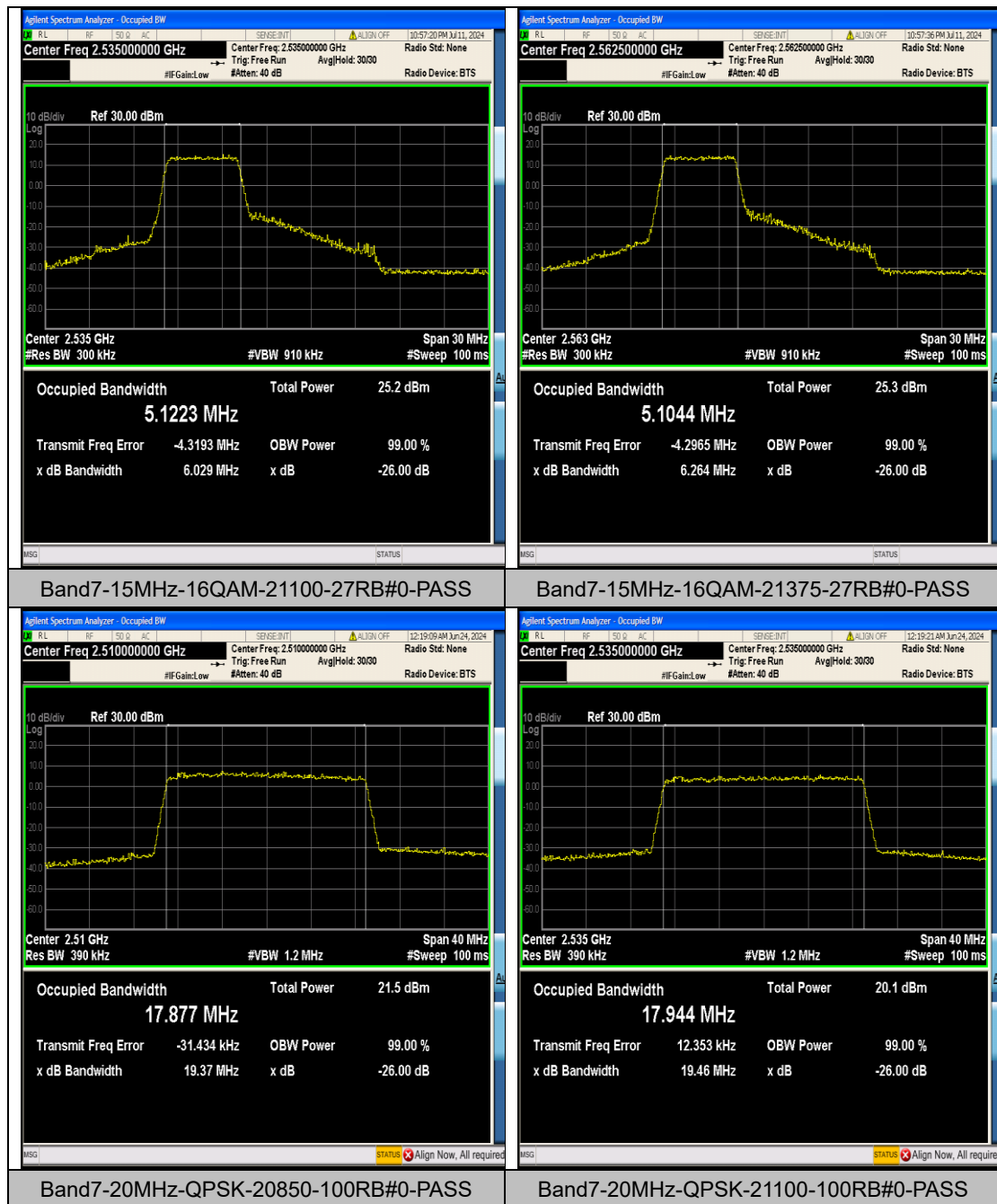
Test Graphs

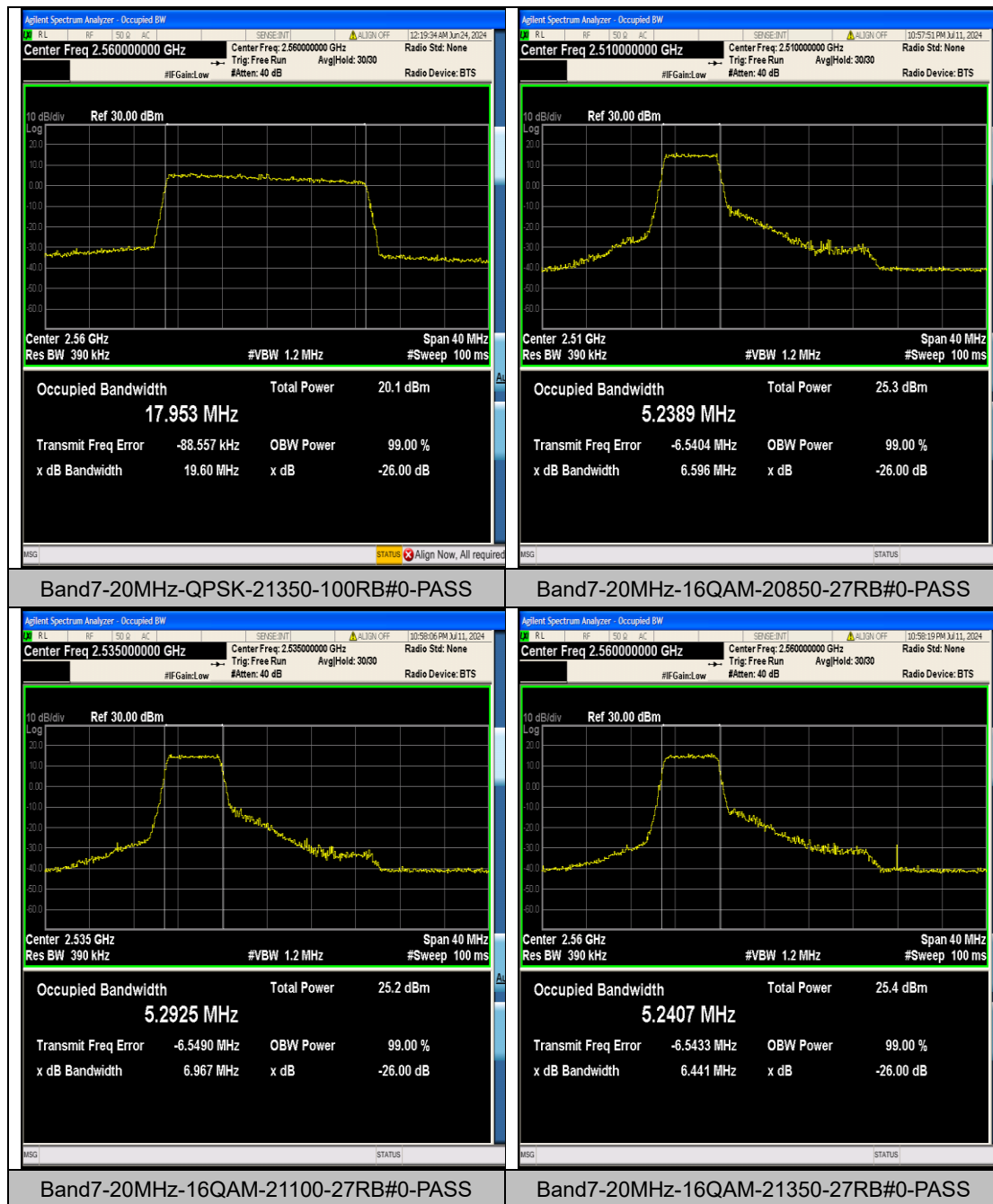












Appendix D: Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	-48.76	PASS
Band7	5MHz	QPSK	20775	1RB#24	-48.82	PASS
Band7	5MHz	QPSK	20775	25RB#0	-48.59	PASS
Band7	5MHz	QPSK	21425	1RB#0	-48.55	PASS
Band7	5MHz	QPSK	21425	1RB#24	-48.35	PASS
Band7	5MHz	QPSK	21425	25RB#0	-46.32	PASS
Band7	5MHz	16QAM	20775	1RB#0	-48.93	PASS
Band7	5MHz	16QAM	20775	1RB#24	-48.91	PASS
Band7	5MHz	16QAM	20775	25RB#0	-48.67	PASS
Band7	5MHz	16QAM	21425	1RB#0	-48.51	PASS
Band7	5MHz	16QAM	21425	1RB#24	-48.40	PASS
Band7	5MHz	16QAM	21425	25RB#0	-46.68	PASS
Band7	10MHz	QPSK	20800	1RB#0	-48.84	PASS
Band7	10MHz	QPSK	20800	1RB#49	-48.87	PASS
Band7	10MHz	QPSK	20800	50RB#0	-47.80	PASS
Band7	10MHz	QPSK	21400	1RB#0	-48.53	PASS
Band7	10MHz	QPSK	21400	1RB#49	-48.48	PASS
Band7	10MHz	QPSK	21400	50RB#0	-47.56	PASS
Band7	10MHz	16QAM	20800	1RB#0	-48.83	PASS
Band7	10MHz	16QAM	20800	1RB#49	-48.76	PASS
Band7	10MHz	16QAM	21400	1RB#0	-48.51	PASS
Band7	10MHz	16QAM	21400	1RB#49	-48.50	PASS
Band7	15MHz	QPSK	20825	1RB#0	-48.94	PASS
Band7	15MHz	QPSK	20825	1RB#74	-48.99	PASS
Band7	15MHz	QPSK	20825	75RB#0	-48.33	PASS
Band7	15MHz	QPSK	21375	1RB#0	-48.49	PASS
Band7	15MHz	QPSK	21375	1RB#74	-48.49	PASS
Band7	15MHz	QPSK	21375	75RB#0	-47.96	PASS
Band7	15MHz	16QAM	20825	1RB#0	-48.45	PASS
Band7	15MHz	16QAM	20825	1RB#74	-48.88	PASS
Band7	15MHz	16QAM	21375	1RB#0	-48.34	PASS
Band7	15MHz	16QAM	21375	1RB#74	-48.47	PASS
Band7	20MHz	QPSK	20850	1RB#0	-48.47	PASS
Band7	20MHz	QPSK	20850	1RB#99	-48.90	PASS
Band7	20MHz	QPSK	20850	100RB#0	-48.45	PASS
Band7	20MHz	QPSK	21350	1RB#0	-48.46	PASS
Band7	20MHz	QPSK	21350	1RB#99	-48.54	PASS

Band7	20MHz	QPSK	21350	100RB#0	-48.29	PASS
Band7	20MHz	16QAM	20850	1RB#0	-48.78	PASS
Band7	20MHz	16QAM	20850	1RB#99	-48.94	PASS
Band7	20MHz	16QAM	21350	1RB#0	-48.51	PASS
Band7	20MHz	16QAM	21350	1RB#99	-48.48	PASS

Test Graphs

