

FCC Appendix RF Test Data for LTE Band 38

Company: : AGRISOUND LIMITED

EUT : AGRISOUND_POLLY

Model Number : PV_3.1

FCC ID : 2BTNL-PV

Report No. : CTA25101401511

Reviewed By : Eric Wang

Appendix A: Conducted Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band38	5MHz	QPSK	37775	1RB#0	21.15	PASS
Band38	5MHz	QPSK	37775	1RB#12	21.19	PASS
Band38	5MHz	QPSK	37775	1RB#24	21.24	PASS
Band38	5MHz	QPSK	37775	12RB#0	20.36	PASS
Band38	5MHz	QPSK	37775	12RB#6	20.29	PASS
Band38	5MHz	QPSK	37775	12RB#13	20.38	PASS
Band38	5MHz	QPSK	37775	25RB#0	20.36	PASS
Band38	5MHz	QPSK	38000	1RB#0	21.08	PASS
Band38	5MHz	QPSK	38000	1RB#12	21.14	PASS
Band38	5MHz	QPSK	38000	1RB#24	21.08	PASS
Band38	5MHz	QPSK	38000	12RB#0	20.30	PASS
Band38	5MHz	QPSK	38000	12RB#6	20.32	PASS
Band38	5MHz	QPSK	38000	12RB#13	20.33	PASS
Band38	5MHz	QPSK	38000	25RB#0	20.20	PASS
Band38	5MHz	QPSK	38225	1RB#0	21.03	PASS
Band38	5MHz	QPSK	38225	1RB#12	21.09	PASS
Band38	5MHz	QPSK	38225	1RB#24	21.12	PASS
Band38	5MHz	QPSK	38225	12RB#0	20.25	PASS
Band38	5MHz	QPSK	38225	12RB#6	20.26	PASS
Band38	5MHz	QPSK	38225	12RB#13	20.31	PASS
Band38	5MHz	QPSK	38225	25RB#0	20.30	PASS
Band38	5MHz	16QAM	37775	1RB#0	20.66	PASS
Band38	5MHz	16QAM	37775	1RB#12	20.74	PASS
Band38	5MHz	16QAM	37775	1RB#24	20.81	PASS
Band38	5MHz	16QAM	37775	12RB#0	19.27	PASS
Band38	5MHz	16QAM	37775	12RB#6	19.28	PASS
Band38	5MHz	16QAM	37775	12RB#13	19.38	PASS
Band38	5MHz	16QAM	37775	25RB#0	19.43	PASS
Band38	5MHz	16QAM	38000	1RB#0	20.90	PASS
Band38	5MHz	16QAM	38000	1RB#12	20.86	PASS
Band38	5MHz	16QAM	38000	1RB#24	20.52	PASS
Band38	5MHz	16QAM	38000	12RB#0	19.11	PASS
Band38	5MHz	16QAM	38000	12RB#6	19.11	PASS
Band38	5MHz	16QAM	38000	12RB#13	19.04	PASS
Band38	5MHz	16QAM	38000	25RB#0	19.29	PASS
Band38	5MHz	16QAM	38225	1RB#0	20.66	PASS
Band38	5MHz	16QAM	38225	1RB#12	20.49	PASS

Band38	5MHz	16QAM	38225	1RB#24	20.20	PASS
Band38	5MHz	16QAM	38225	12RB#0	19.29	PASS
Band38	5MHz	16QAM	38225	12RB#6	19.30	PASS
Band38	5MHz	16QAM	38225	12RB#13	19.31	PASS
Band38	5MHz	16QAM	38225	25RB#0	19.34	PASS
Band38	10MHz	QPSK	37800	1RB#0	23.08	PASS
Band38	10MHz	QPSK	37800	1RB#24	23.06	PASS
Band38	10MHz	QPSK	37800	1RB#49	23.10	PASS
Band38	10MHz	QPSK	37800	25RB#0	22.23	PASS
Band38	10MHz	QPSK	37800	25RB#12	22.25	PASS
Band38	10MHz	QPSK	37800	25RB#25	22.21	PASS
Band38	10MHz	QPSK	37800	50RB#0	22.21	PASS
Band38	10MHz	QPSK	38000	1RB#0	23.14	PASS
Band38	10MHz	QPSK	38000	1RB#24	23.03	PASS
Band38	10MHz	QPSK	38000	1RB#49	23.03	PASS
Band38	10MHz	QPSK	38000	25RB#0	22.28	PASS
Band38	10MHz	QPSK	38000	25RB#12	22.19	PASS
Band38	10MHz	QPSK	38000	25RB#25	22.19	PASS
Band38	10MHz	QPSK	38000	50RB#0	22.16	PASS
Band38	10MHz	QPSK	38200	1RB#0	23.15	PASS
Band38	10MHz	QPSK	38200	1RB#24	23.08	PASS
Band38	10MHz	QPSK	38200	1RB#49	23.12	PASS
Band38	10MHz	QPSK	38200	25RB#0	22.27	PASS
Band38	10MHz	QPSK	38200	25RB#12	22.28	PASS
Band38	10MHz	QPSK	38200	25RB#25	22.28	PASS
Band38	10MHz	QPSK	38200	50RB#0	22.24	PASS
Band38	10MHz	16QAM	37800	1RB#0	22.27	PASS
Band38	10MHz	16QAM	37800	1RB#24	22.18	PASS
Band38	10MHz	16QAM	37800	1RB#49	22.19	PASS
Band38	10MHz	16QAM	37800	25RB#0	21.13	PASS
Band38	10MHz	16QAM	37800	25RB#12	21.13	PASS
Band38	10MHz	16QAM	37800	25RB#25	21.19	PASS
Band38	10MHz	16QAM	38000	1RB#0	22.42	PASS
Band38	10MHz	16QAM	38000	1RB#24	22.16	PASS
Band38	10MHz	16QAM	38000	1RB#49	21.82	PASS
Band38	10MHz	16QAM	38000	25RB#0	21.28	PASS
Band38	10MHz	16QAM	38000	25RB#12	21.28	PASS
Band38	10MHz	16QAM	38000	25RB#25	21.29	PASS
Band38	10MHz	16QAM	38200	1RB#0	22.26	PASS
Band38	10MHz	16QAM	38200	1RB#24	22.41	PASS
Band38	10MHz	16QAM	38200	1RB#49	22.46	PASS
Band38	10MHz	16QAM	38200	25RB#0	21.28	PASS
Band38	10MHz	16QAM	38200	25RB#12	21.28	PASS

Band38	10MHz	16QAM	38200	25RB#25	21.37	PASS
Band38	15MHz	QPSK	37825	1RB#0	21.15	PASS
Band38	15MHz	QPSK	37825	1RB#38	21.24	PASS
Band38	15MHz	QPSK	37825	1RB#74	21.25	PASS
Band38	15MHz	QPSK	37825	38RB#0	20.27	PASS
Band38	15MHz	QPSK	37825	38RB#18	20.28	PASS
Band38	15MHz	QPSK	37825	38RB#37	20.28	PASS
Band38	15MHz	QPSK	37825	75RB#0	20.28	PASS
Band38	15MHz	QPSK	38000	1RB#0	21.33	PASS
Band38	15MHz	QPSK	38000	1RB#38	21.20	PASS
Band38	15MHz	QPSK	38000	1RB#74	21.02	PASS
Band38	15MHz	QPSK	38000	38RB#0	20.26	PASS
Band38	15MHz	QPSK	38000	38RB#18	20.28	PASS
Band38	15MHz	QPSK	38000	38RB#37	20.28	PASS
Band38	15MHz	QPSK	38000	75RB#0	22.01	PASS
Band38	15MHz	QPSK	38175	1RB#0	21.31	PASS
Band38	15MHz	QPSK	38175	1RB#38	21.16	PASS
Band38	15MHz	QPSK	38175	1RB#74	21.17	PASS
Band38	15MHz	QPSK	38175	38RB#0	20.30	PASS
Band38	15MHz	QPSK	38175	38RB#18	20.27	PASS
Band38	15MHz	QPSK	38175	38RB#37	20.27	PASS
Band38	15MHz	QPSK	38175	75RB#0	22.17	PASS
Band38	15MHz	16QAM	37825	1RB#0	19.91	PASS
Band38	15MHz	16QAM	37825	1RB#38	20.30	PASS
Band38	15MHz	16QAM	37825	1RB#74	20.20	PASS
Band38	15MHz	16QAM	37825	38RB#0	20.28	PASS
Band38	15MHz	16QAM	37825	38RB#18	20.28	PASS
Band38	15MHz	16QAM	37825	38RB#37	20.28	PASS
Band38	15MHz	16QAM	38000	1RB#0	20.62	PASS
Band38	15MHz	16QAM	38000	1RB#38	20.25	PASS
Band38	15MHz	16QAM	38000	1RB#74	20.34	PASS
Band38	15MHz	16QAM	38000	38RB#0	20.27	PASS
Band38	15MHz	16QAM	38000	38RB#18	20.28	PASS
Band38	15MHz	16QAM	38000	38RB#37	20.28	PASS
Band38	15MHz	16QAM	38175	1RB#0	20.16	PASS
Band38	15MHz	16QAM	38175	1RB#38	20.08	PASS
Band38	15MHz	16QAM	38175	1RB#74	20.24	PASS
Band38	15MHz	16QAM	38175	38RB#0	20.26	PASS
Band38	15MHz	16QAM	38175	38RB#18	20.27	PASS
Band38	15MHz	16QAM	38175	38RB#37	20.27	PASS
Band38	20MHz	QPSK	37850	1RB#0	22.58	PASS
Band38	20MHz	QPSK	37850	1RB#49	22.83	PASS
Band38	20MHz	QPSK	37850	1RB#99	22.64	PASS

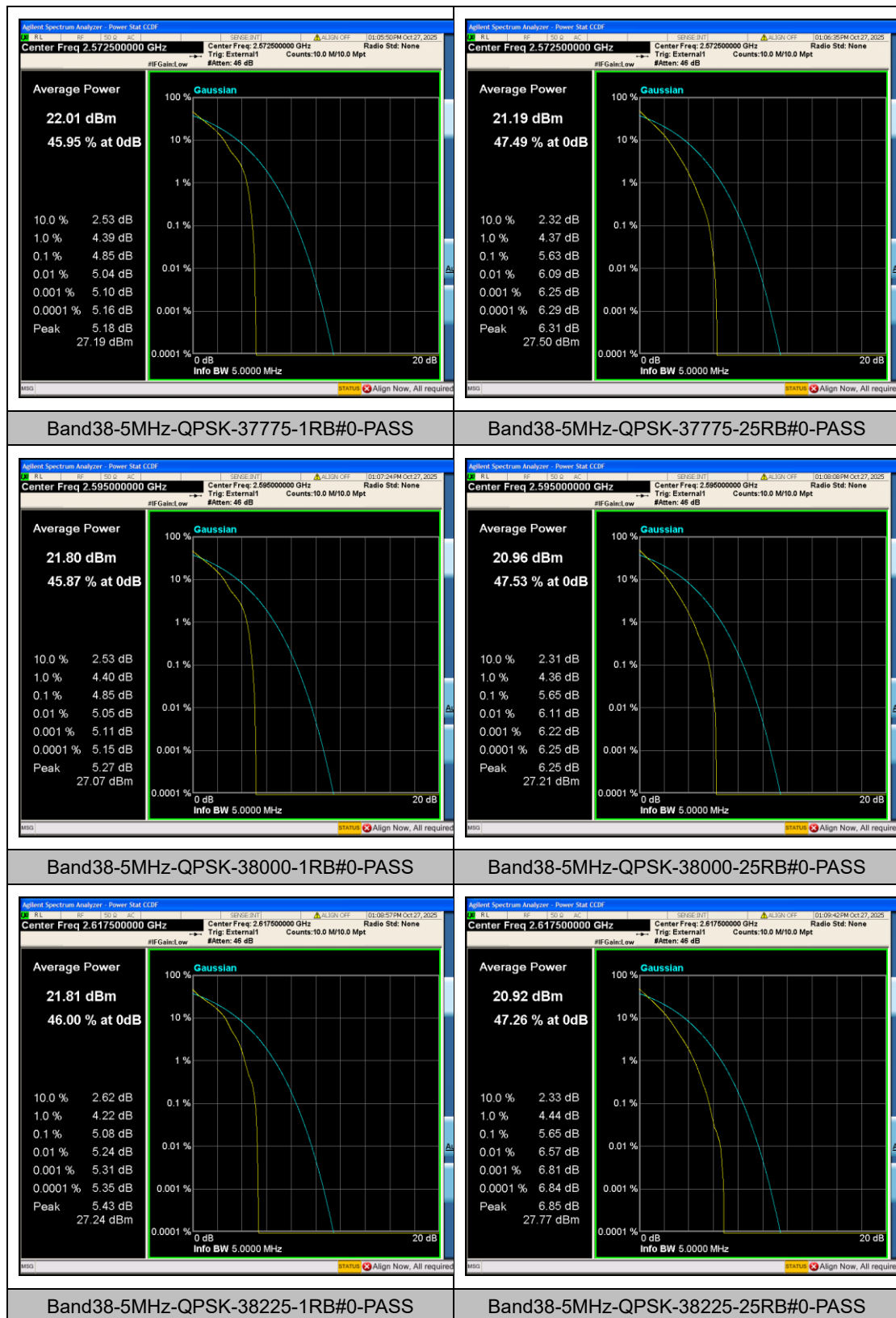
Band38	20MHz	QPSK	37850	50RB#0	21.84	PASS
Band38	20MHz	QPSK	37850	50RB#25	21.81	PASS
Band38	20MHz	QPSK	37850	50RB#50	21.76	PASS
Band38	20MHz	QPSK	37850	100RB#0	21.70	PASS
Band38	20MHz	QPSK	38000	1RB#0	22.93	PASS
Band38	20MHz	QPSK	38000	1RB#49	23.09	PASS
Band38	20MHz	QPSK	38000	1RB#99	22.82	PASS
Band38	20MHz	QPSK	38000	50RB#0	21.91	PASS
Band38	20MHz	QPSK	38000	50RB#25	21.82	PASS
Band38	20MHz	QPSK	38000	50RB#50	21.75	PASS
Band38	20MHz	QPSK	38000	100RB#0	21.81	PASS
Band38	20MHz	QPSK	38150	1RB#0	22.97	PASS
Band38	20MHz	QPSK	38150	1RB#49	23.10	PASS
Band38	20MHz	QPSK	38150	1RB#99	23.08	PASS
Band38	20MHz	QPSK	38150	50RB#0	21.87	PASS
Band38	20MHz	QPSK	38150	50RB#25	21.76	PASS
Band38	20MHz	QPSK	38150	50RB#50	21.79	PASS
Band38	20MHz	QPSK	38150	100RB#0	21.80	PASS
Band38	20MHz	16QAM	37850	1RB#0	22.32	PASS
Band38	20MHz	16QAM	37850	1RB#49	22.74	PASS
Band38	20MHz	16QAM	37850	1RB#99	22.29	PASS
Band38	20MHz	16QAM	38000	1RB#0	22.52	PASS
Band38	20MHz	16QAM	38000	1RB#49	22.67	PASS
Band38	20MHz	16QAM	38000	1RB#99	22.43	PASS
Band38	20MHz	16QAM	38150	1RB#0	22.04	PASS
Band38	20MHz	16QAM	38150	1RB#49	22.08	PASS
Band38	20MHz	16QAM	38150	1RB#99	22.01	PASS

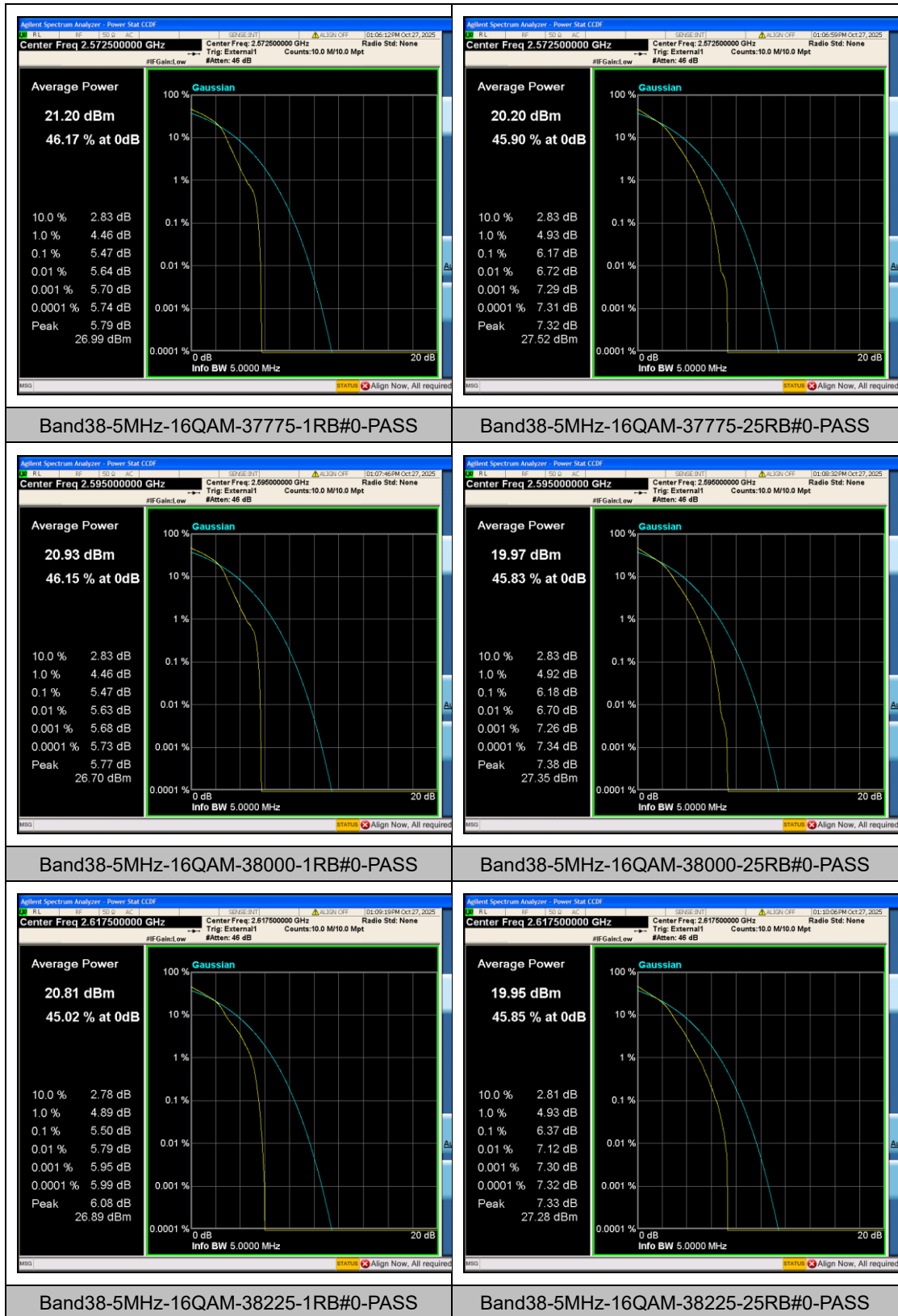
Appendix B: Peak-to-Average Ratio(CCDF)

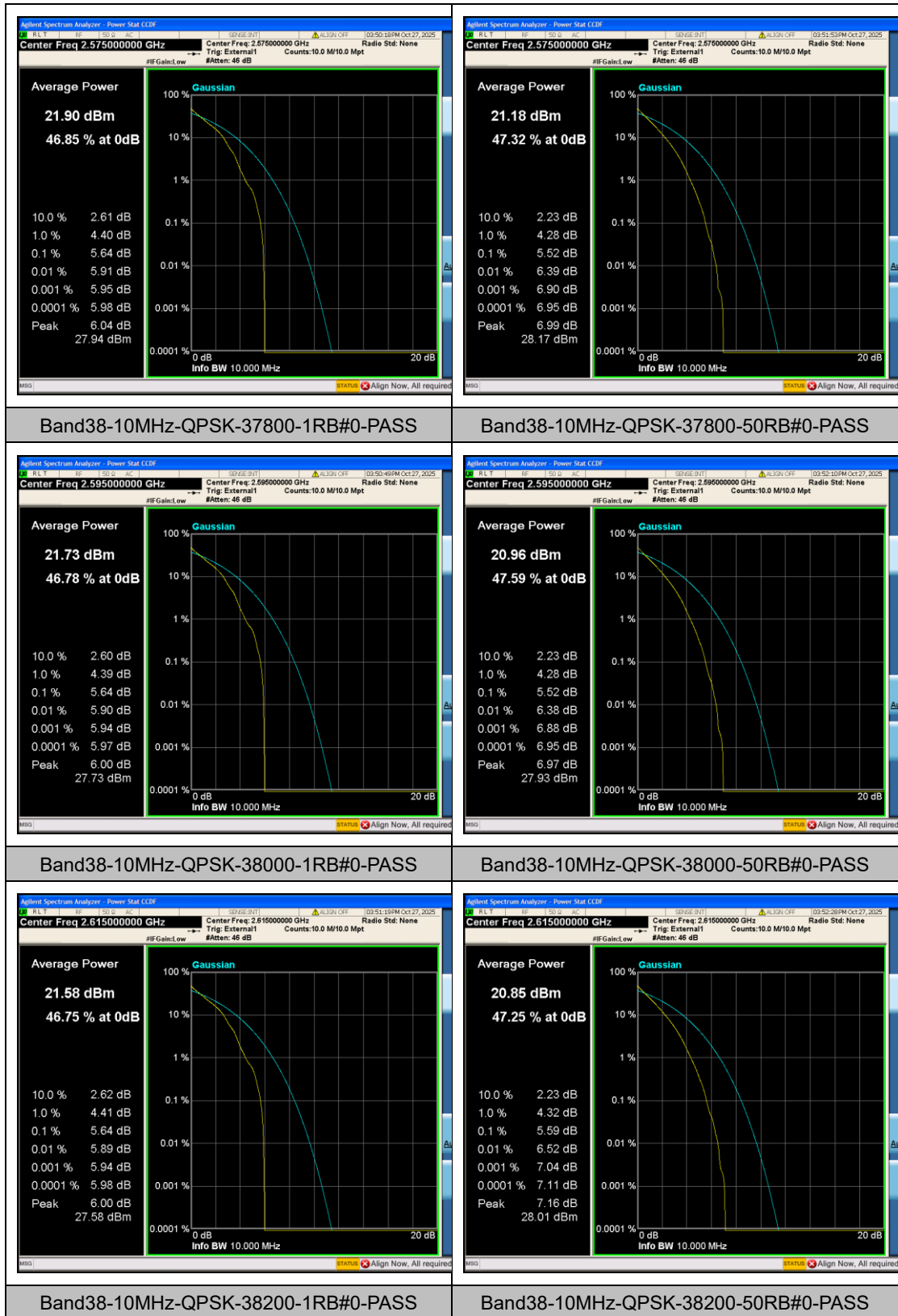
Test Result

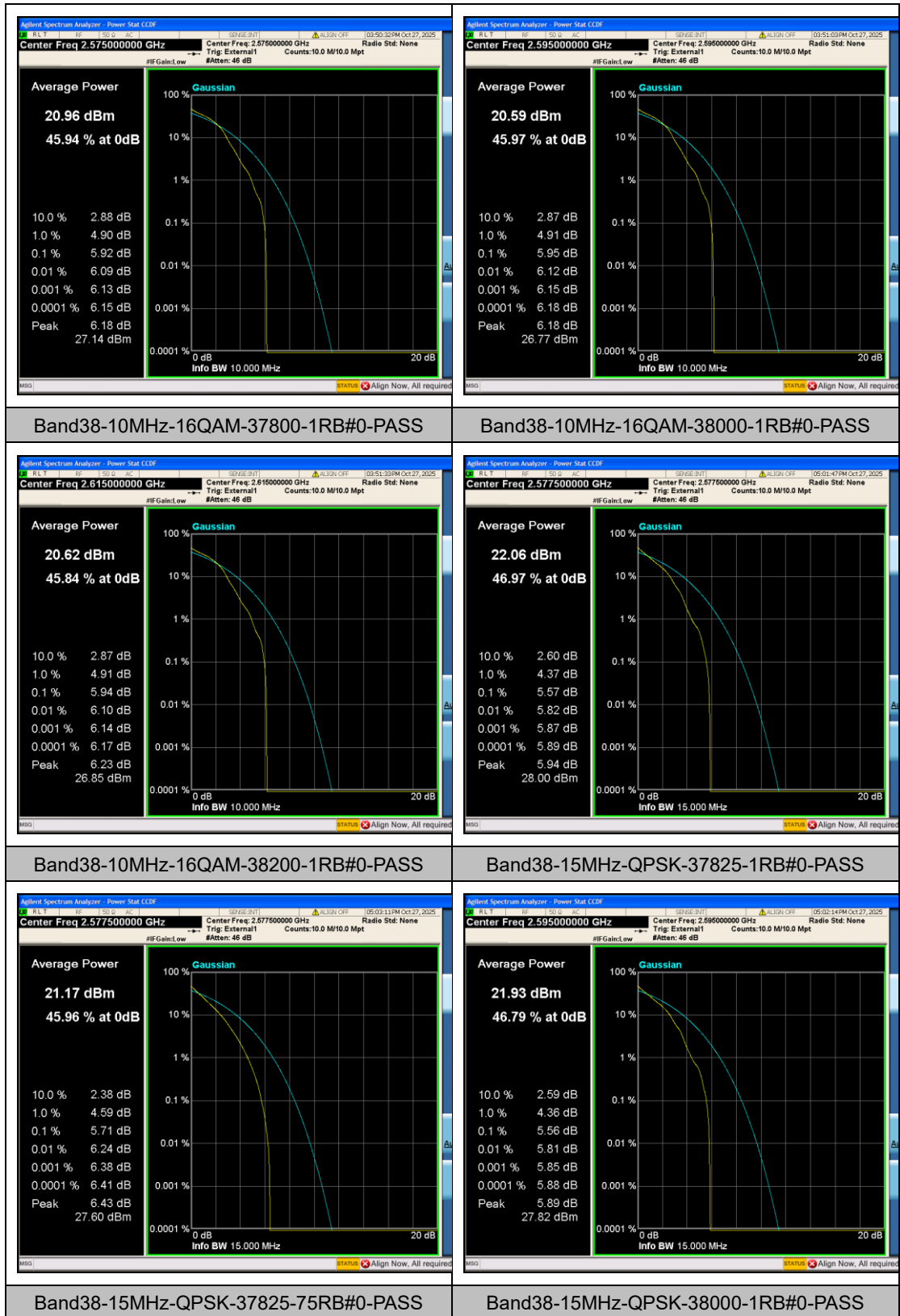
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band38	5MHz	QPSK	37775	1RB#0	4.85	13	PASS
Band38	5MHz	QPSK	37775	25RB#0	5.63	13	PASS
Band38	5MHz	QPSK	38000	1RB#0	4.85	13	PASS
Band38	5MHz	QPSK	38000	25RB#0	5.65	13	PASS
Band38	5MHz	QPSK	38225	1RB#0	5.08	13	PASS
Band38	5MHz	QPSK	38225	25RB#0	5.65	13	PASS
Band38	5MHz	16QAM	37775	1RB#0	5.47	13	PASS
Band38	5MHz	16QAM	37775	25RB#0	6.17	13	PASS
Band38	5MHz	16QAM	38000	1RB#0	5.47	13	PASS
Band38	5MHz	16QAM	38000	25RB#0	6.18	13	PASS
Band38	5MHz	16QAM	38225	1RB#0	5.50	13	PASS
Band38	5MHz	16QAM	38225	25RB#0	6.37	13	PASS
Band38	10MHz	QPSK	37800	1RB#0	5.64	13	PASS
Band38	10MHz	QPSK	37800	50RB#0	5.52	13	PASS
Band38	10MHz	QPSK	38000	1RB#0	5.64	13	PASS
Band38	10MHz	QPSK	38000	50RB#0	5.52	13	PASS
Band38	10MHz	QPSK	38200	1RB#0	5.64	13	PASS
Band38	10MHz	QPSK	38200	50RB#0	5.59	13	PASS
Band38	10MHz	16QAM	37800	1RB#0	5.92	13	PASS
Band38	10MHz	16QAM	38000	1RB#0	5.95	13	PASS
Band38	10MHz	16QAM	38200	1RB#0	5.94	13	PASS
Band38	15MHz	QPSK	37825	1RB#0	5.57	13	PASS
Band38	15MHz	QPSK	37825	75RB#0	5.71	13	PASS
Band38	15MHz	QPSK	38000	1RB#0	5.56	13	PASS
Band38	15MHz	QPSK	38000	75RB#0	5.72	13	PASS
Band38	15MHz	QPSK	38175	1RB#0	5.60	13	PASS
Band38	15MHz	QPSK	38175	75RB#0	5.81	13	PASS
Band38	15MHz	16QAM	37825	1RB#0	5.98	13	PASS
Band38	15MHz	16QAM	38000	1RB#0	5.93	13	PASS
Band38	15MHz	16QAM	38175	1RB#0	5.93	13	PASS
Band38	20MHz	QPSK	37850	1RB#0	4.84	13	PASS
Band38	20MHz	QPSK	37850	100RB#0	5.28	13	PASS
Band38	20MHz	QPSK	38000	1RB#0	4.82	13	PASS
Band38	20MHz	QPSK	38000	100RB#0	5.27	13	PASS
Band38	20MHz	QPSK	38150	1RB#0	4.86	13	PASS
Band38	20MHz	QPSK	38150	100RB#0	5.32	13	PASS

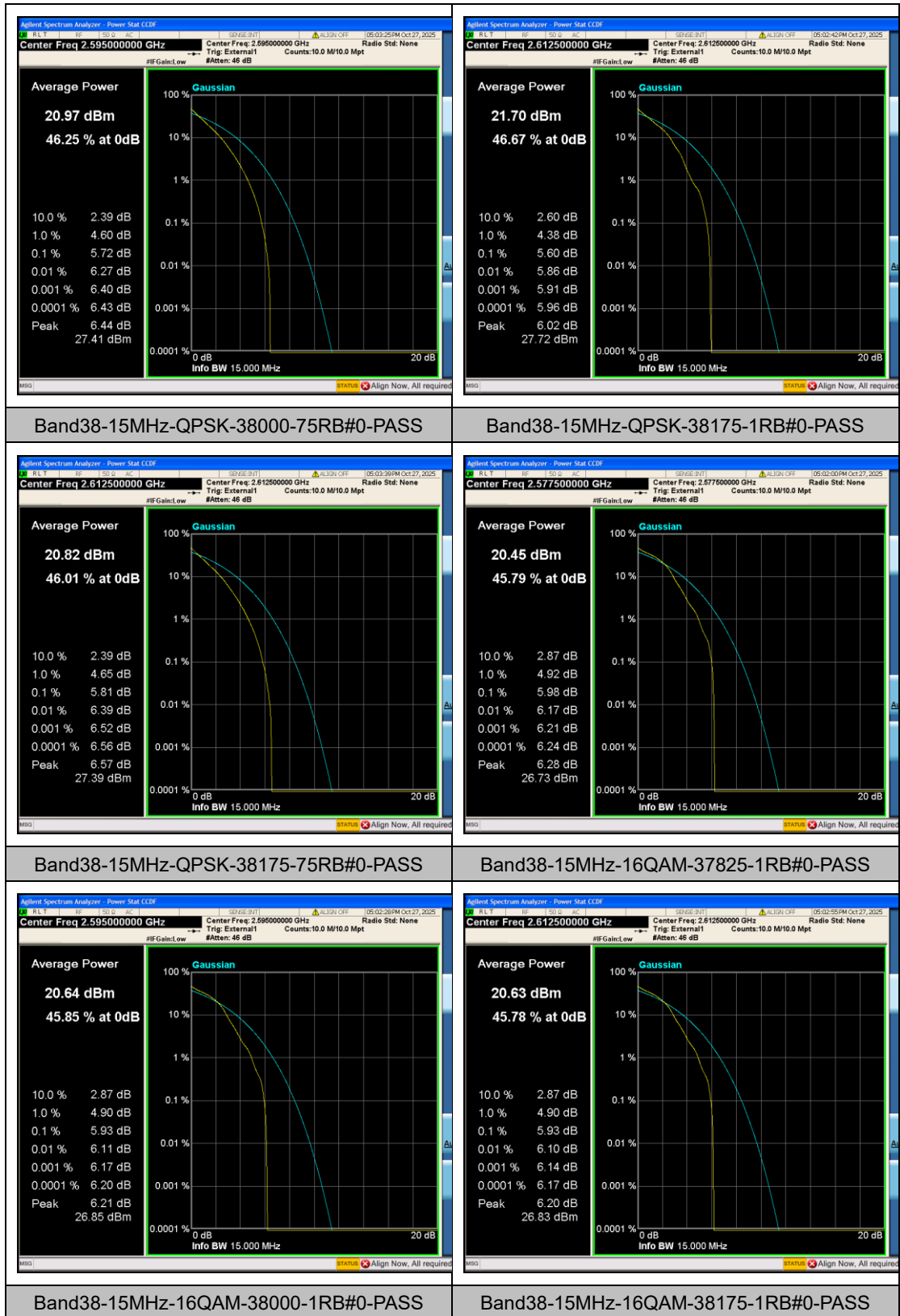
Test Graphs

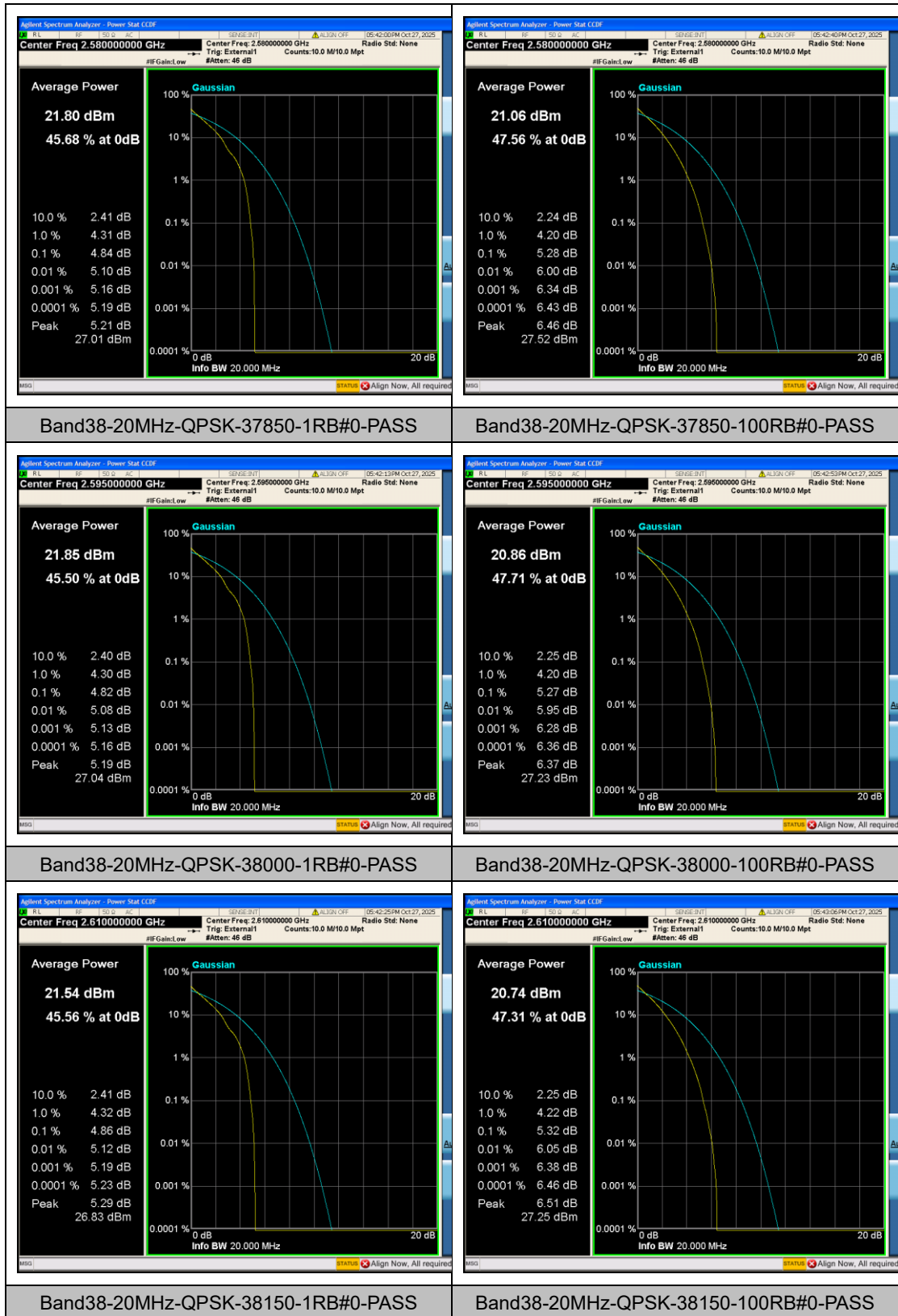










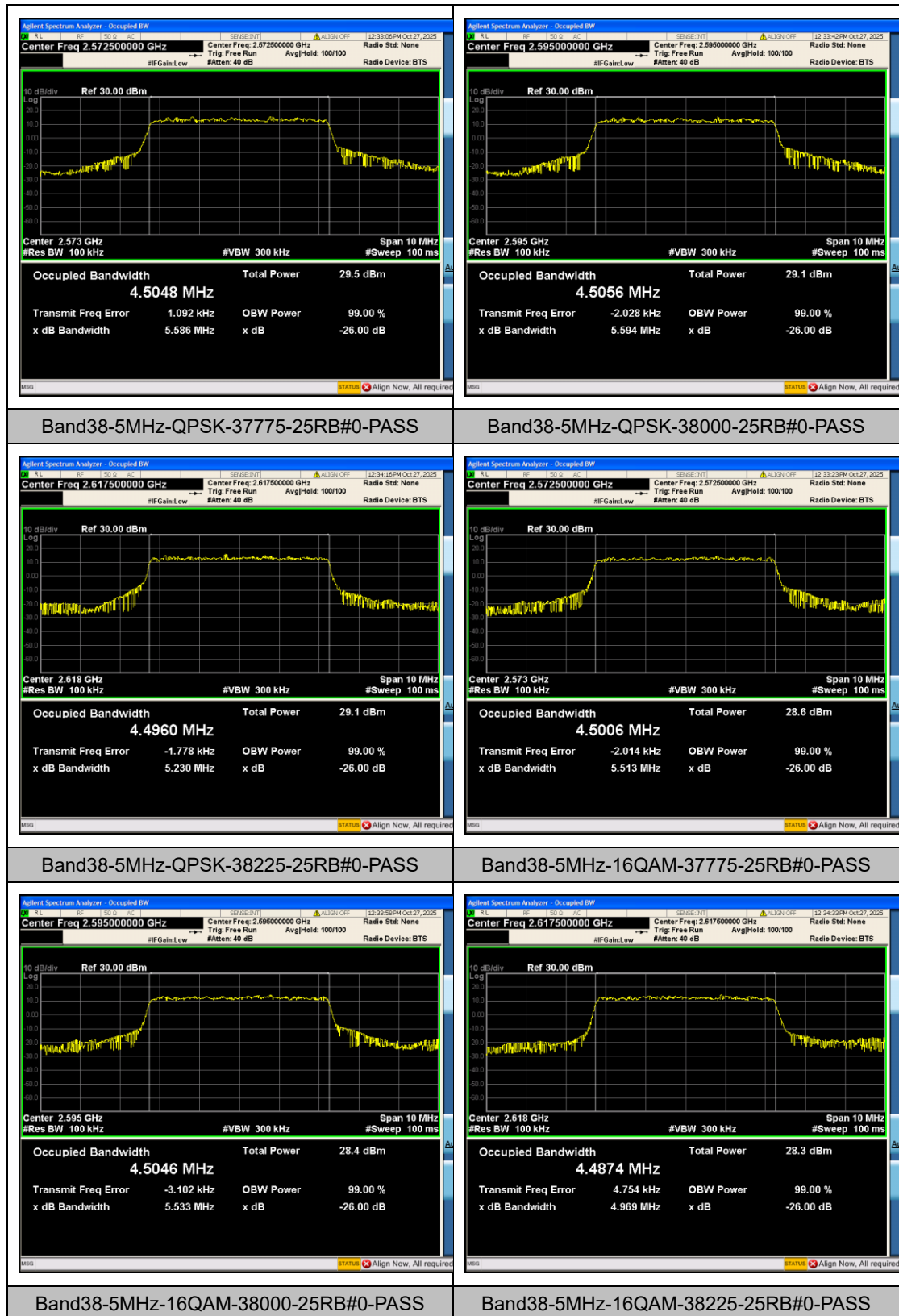


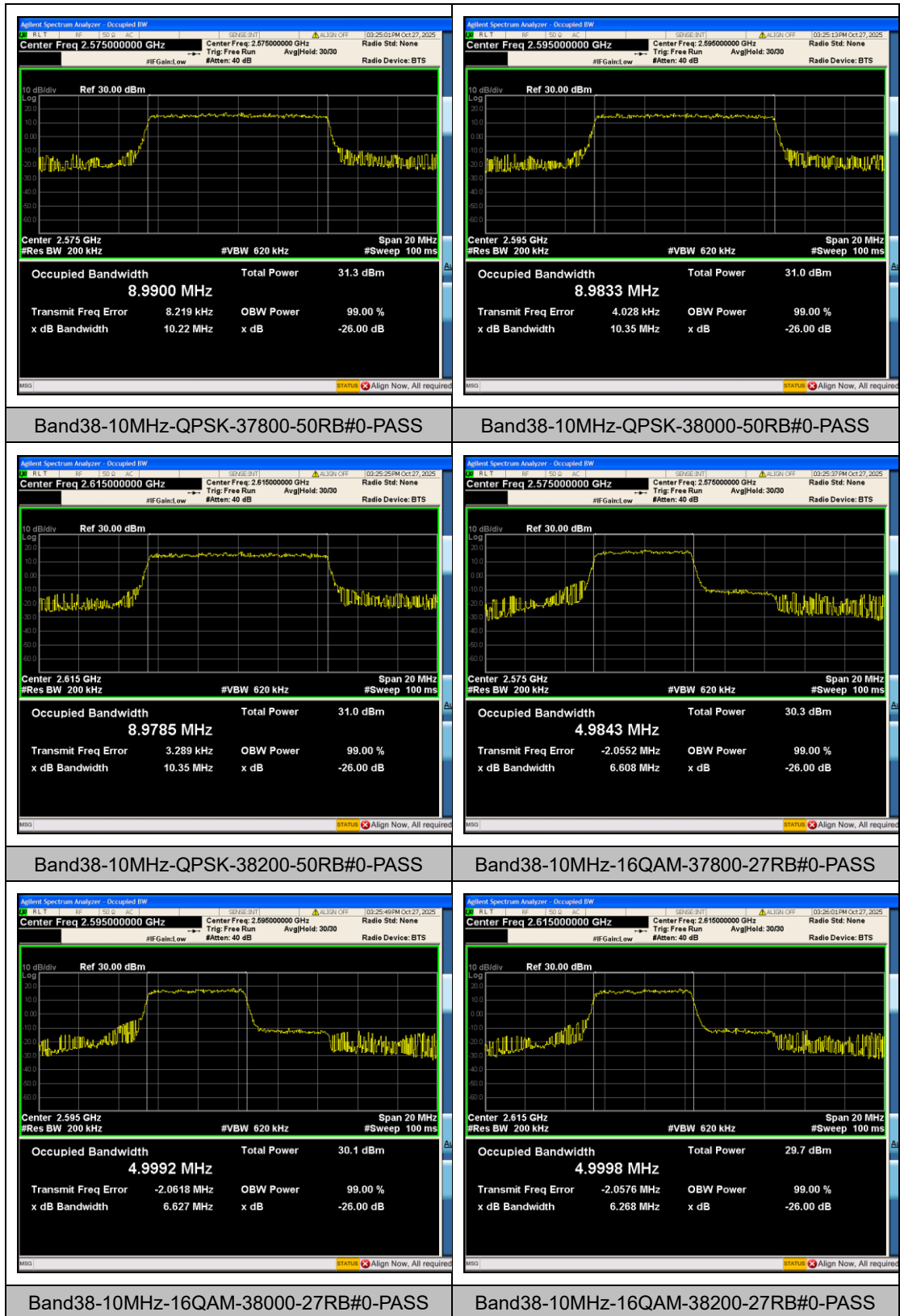
Appendix C: 26dB Bandwidth and Occupied Bandwidth

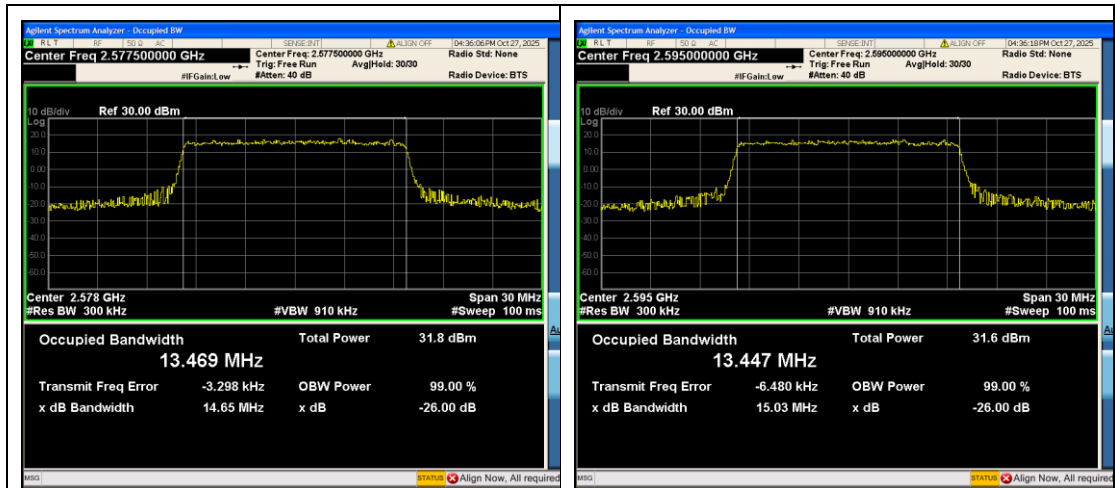
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band38	5MHz	QPSK	37775	25RB#0	4.5048	5.586	PASS
Band38	5MHz	QPSK	38000	25RB#0	4.5056	5.594	PASS
Band38	5MHz	QPSK	38225	25RB#0	4.4960	5.230	PASS
Band38	5MHz	16QAM	37775	25RB#0	4.5006	5.513	PASS
Band38	5MHz	16QAM	38000	25RB#0	4.5046	5.533	PASS
Band38	5MHz	16QAM	38225	25RB#0	4.4874	4.969	PASS
Band38	10MHz	QPSK	37800	50RB#0	8.9900	10.22	PASS
Band38	10MHz	QPSK	38000	50RB#0	8.9833	10.35	PASS
Band38	10MHz	QPSK	38200	50RB#0	8.9785	10.35	PASS
Band38	10MHz	16QAM	37800	27RB#0	4.9843	6.608	PASS
Band38	10MHz	16QAM	38000	27RB#0	4.9992	6.627	PASS
Band38	10MHz	16QAM	38200	27RB#0	4.9998	6.268	PASS
Band38	15MHz	QPSK	37825	75RB#0	13.469	14.65	PASS
Band38	15MHz	QPSK	38000	75RB#0	13.447	15.03	PASS
Band38	15MHz	QPSK	38175	75RB#0	13.475	14.75	PASS
Band38	15MHz	16QAM	37825	27RB#0	5.1099	6.413	PASS
Band38	15MHz	16QAM	38000	27RB#0	5.1306	6.387	PASS
Band38	15MHz	16QAM	38175	27RB#0	5.1463	6.319	PASS
Band38	20MHz	QPSK	37850	100RB#0	17.920	19.51	PASS
Band38	20MHz	QPSK	38000	100RB#0	17.938	20.08	PASS
Band38	20MHz	QPSK	38150	100RB#0	17.918	19.75	PASS
Band38	20MHz	16QAM	37850	27RB#0	5.2955	7.441	PASS
Band38	20MHz	16QAM	38000	27RB#0	5.2790	7.508	PASS
Band38	20MHz	16QAM	38150	27RB#0	5.2836	7.443	PASS

Test Graphs

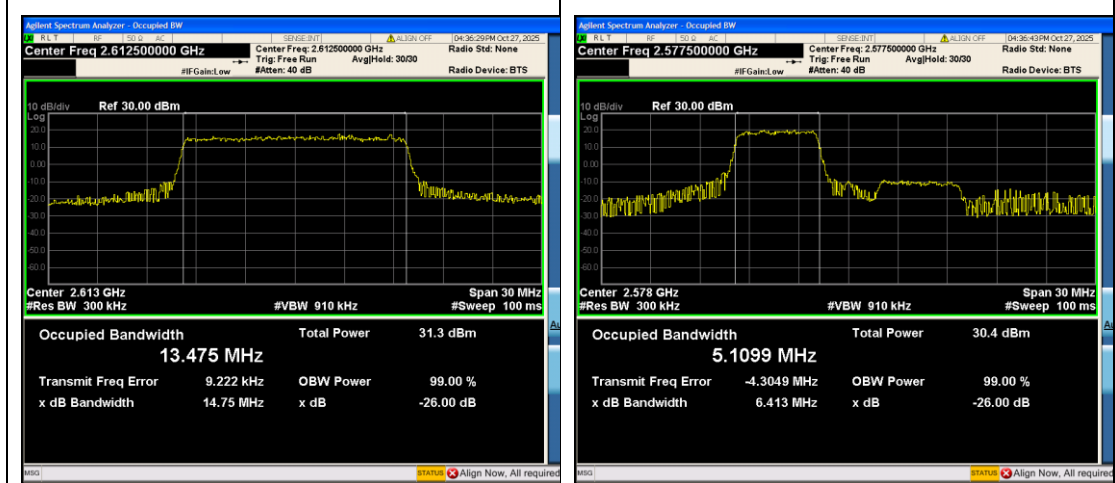






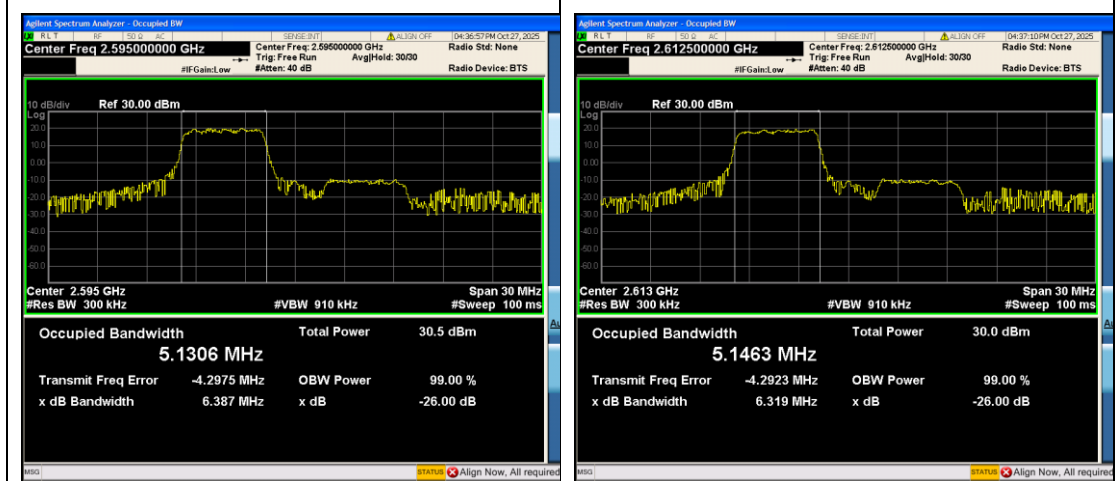
Band38-15MHz-QPSK-37825-75RB#0-PASS

Band38-15MHz-QPSK-38000-75RB#0-PASS



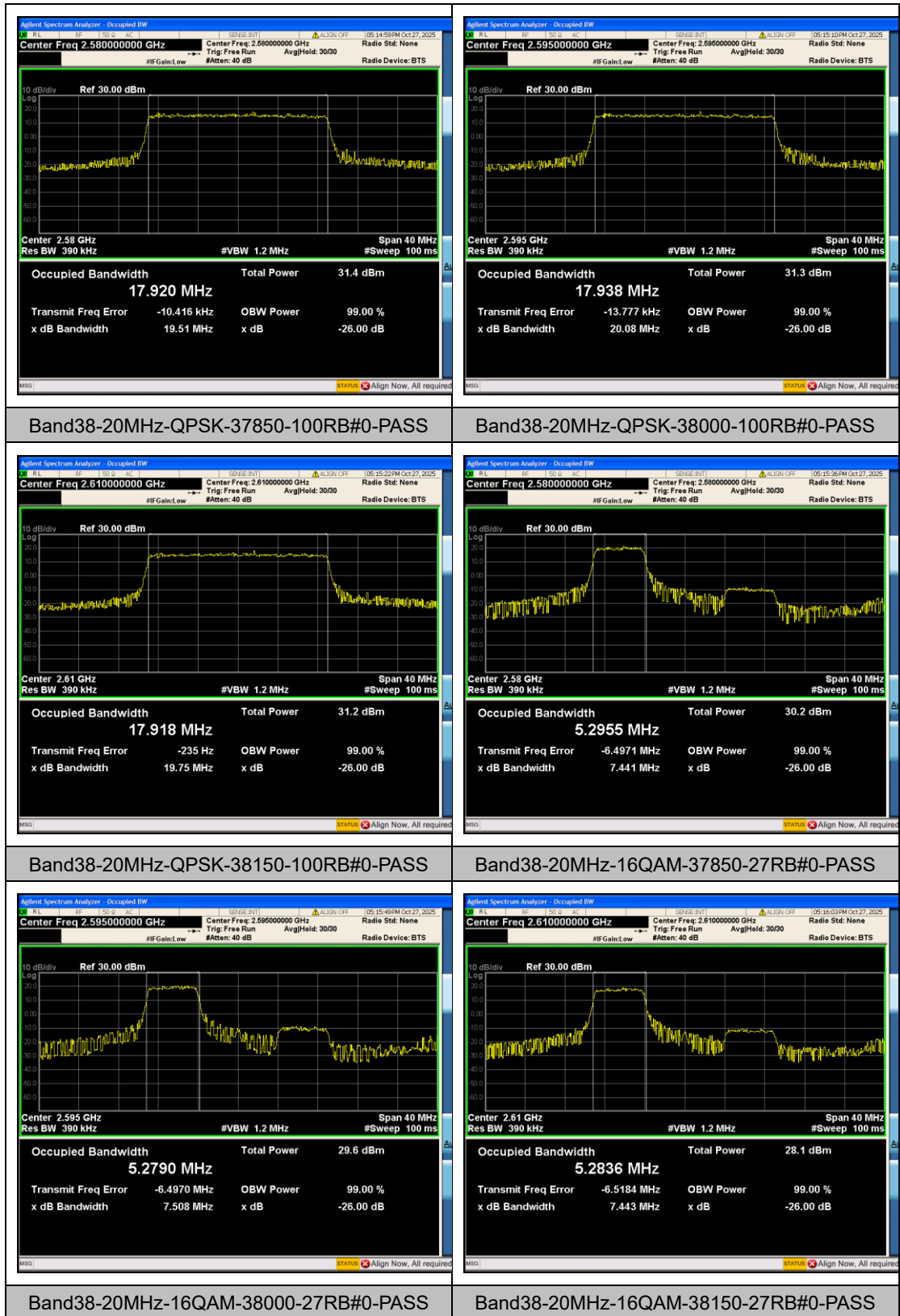
Band38-15MHz-QPSK-38175-75RB#0-PASS

Band38-15MHz-16QAM-37825-27RB#0-PASS



Band38-15MHz-16QAM-38000-27RB#0-PASS

Band38-15MHz-16QAM-38175-27RB#0-PASS



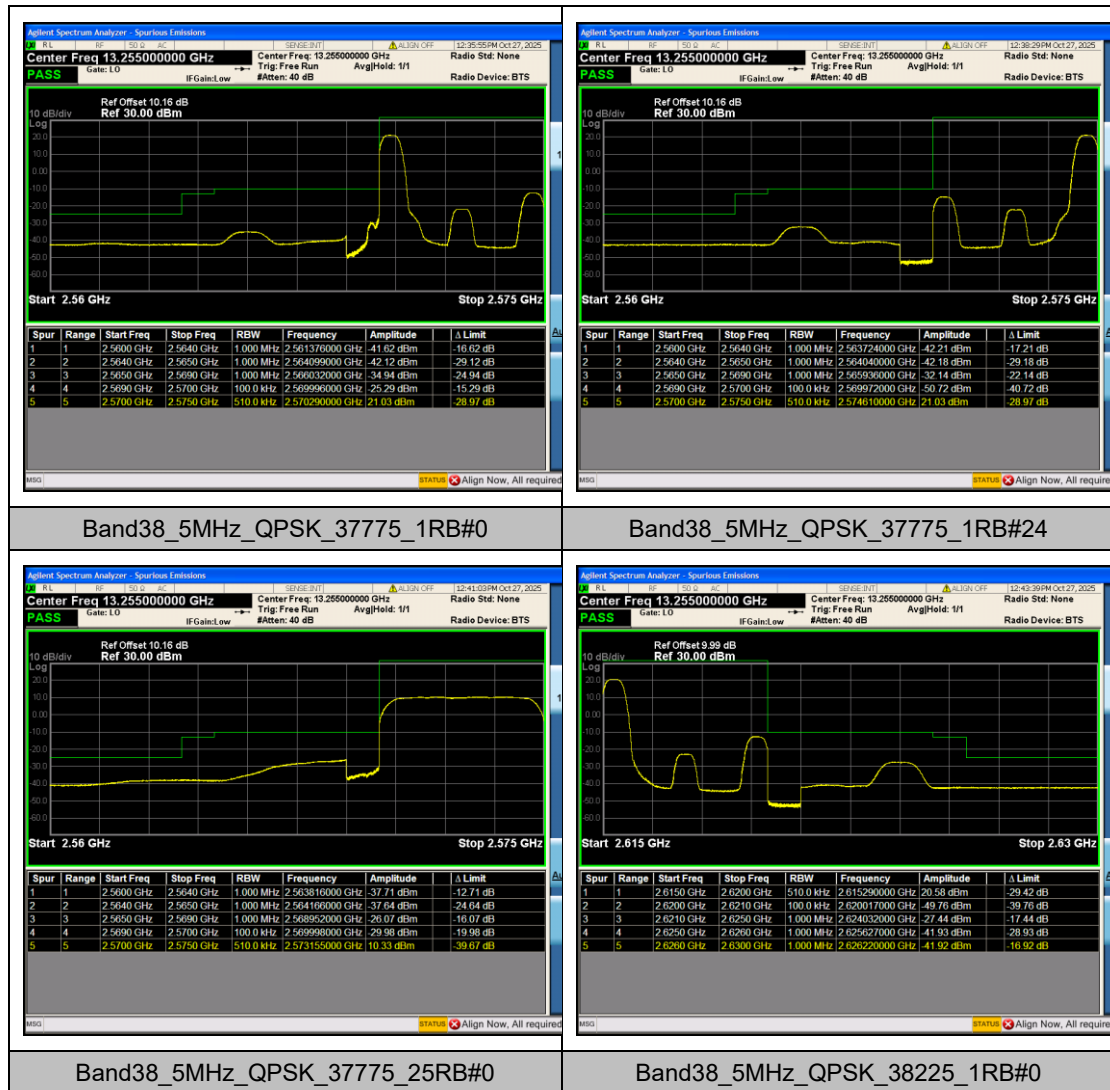
Appendix D: Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band38	5MHz	QPSK	37775	1RB#0	-25.29	PASS
Band38	5MHz	QPSK	37775	1RB#24	-42.21	PASS
Band38	5MHz	QPSK	37775	25RB#0	-37.71	PASS
Band38	5MHz	QPSK	38225	1RB#0	-41.92	PASS
Band38	5MHz	QPSK	38225	1RB#24	-24.72	PASS
Band38	5MHz	QPSK	38225	25RB#0	-35.80	PASS
Band38	5MHz	16QAM	37775	1RB#0	-26.37	PASS
Band38	5MHz	16QAM	37775	1RB#24	-42.21	PASS
Band38	5MHz	16QAM	37775	25RB#0	-38.39	PASS
Band38	5MHz	16QAM	38225	1RB#0	-42.03	PASS
Band38	5MHz	16QAM	38225	1RB#24	-26.39	PASS
Band38	5MHz	16QAM	38225	25RB#0	-36.89	PASS
Band38	10MHz	QPSK	37800	1RB#0	-42.17	PASS
Band38	10MHz	QPSK	37800	1RB#49	-30.05	PASS
Band38	10MHz	QPSK	37800	50RB#0	-38.96	PASS
Band38	10MHz	QPSK	38200	1RB#0	-41.84	PASS
Band38	10MHz	QPSK	38200	1RB#49	-41.78	PASS
Band38	10MHz	QPSK	38200	50RB#0	-37.50	PASS
Band38	10MHz	16QAM	37800	1RB#0	-42.18	PASS
Band38	10MHz	16QAM	37800	1RB#49	-42.37	PASS
Band38	10MHz	16QAM	38200	1RB#0	-41.85	PASS
Band38	10MHz	16QAM	38200	1RB#49	-41.89	PASS
Band38	15MHz	QPSK	37825	1RB#0	-42.13	PASS
Band38	15MHz	QPSK	37825	1RB#74	-28.23	PASS
Band38	15MHz	QPSK	37825	75RB#0	-37.75	PASS
Band38	15MHz	QPSK	38175	1RB#0	-41.34	PASS
Band38	15MHz	QPSK	38175	1RB#74	-41.56	PASS
Band38	15MHz	QPSK	38175	75RB#0	-35.42	PASS
Band38	15MHz	16QAM	37825	1RB#0	-42.30	PASS
Band38	15MHz	16QAM	37825	1RB#74	-30.19	PASS
Band38	15MHz	16QAM	38175	1RB#0	-41.64	PASS
Band38	15MHz	16QAM	38175	1RB#74	-41.52	PASS
Band38	20MHz	QPSK	37850	1RB#0	-42.40	PASS
Band38	20MHz	QPSK	37850	1RB#99	-42.45	PASS
Band38	20MHz	QPSK	37850	100RB#0	-40.08	PASS
Band38	20MHz	QPSK	38150	1RB#0	-41.67	PASS
Band38	20MHz	QPSK	38150	1RB#99	-41.81	PASS

Band38	20MHz	QPSK	38150	100RB#0	-38.61	PASS
Band38	20MHz	16QAM	37850	1RB#0	-42.40	PASS
Band38	20MHz	16QAM	37850	1RB#99	-42.38	PASS
Band38	20MHz	16QAM	38150	1RB#0	-41.74	PASS
Band38	20MHz	16QAM	38150	1RB#99	-41.70	PASS

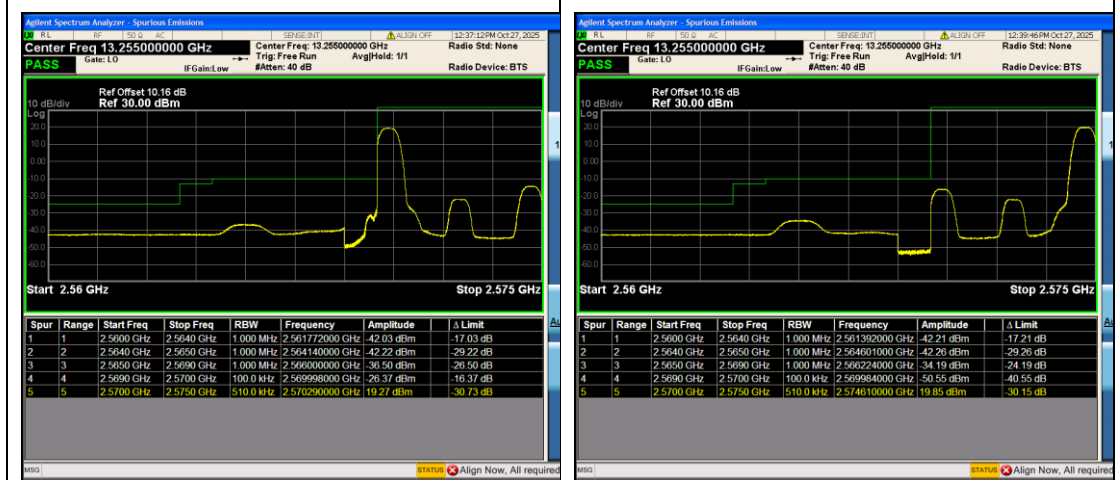
Test Graphs





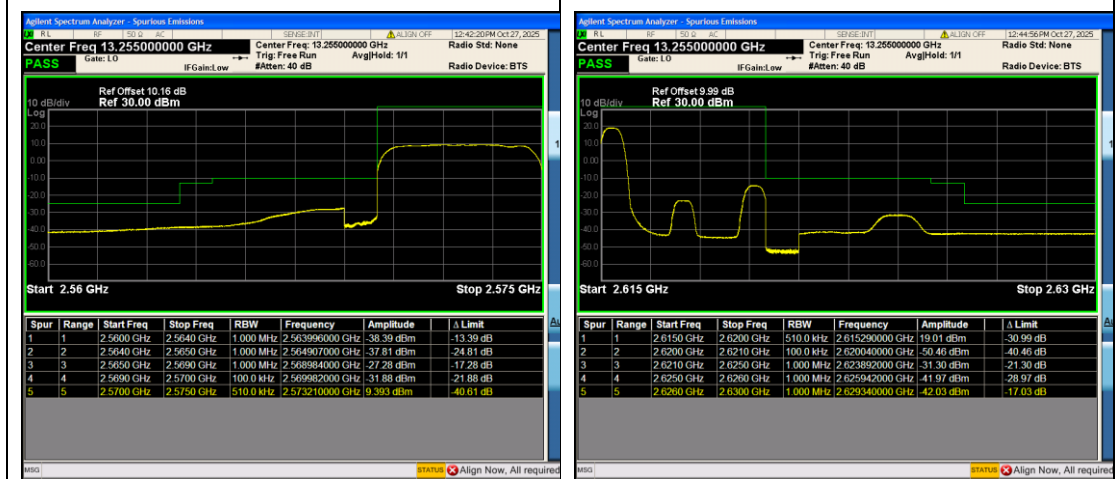
Band38_5MHz_QPSK_38225_1RB#24

Band38_5MHz_QPSK_38225_25RB#0



Band38_5MHz_16QAM_37775_1RB#0

Band38_5MHz_16QAM_37775_1RB#24



Band38_5MHz_16QAM_37775_25RB#0

Band38_5MHz_16QAM_38225_1RB#0