

FCC LTE Band Test Data

FCC ID : **2BG5S-CLR903**

Company: : **Shanghai Yuge information technology Co., Ltd.**

EUT : **4G LTE Wireless Communication Module**

Model Number : **CLR903**

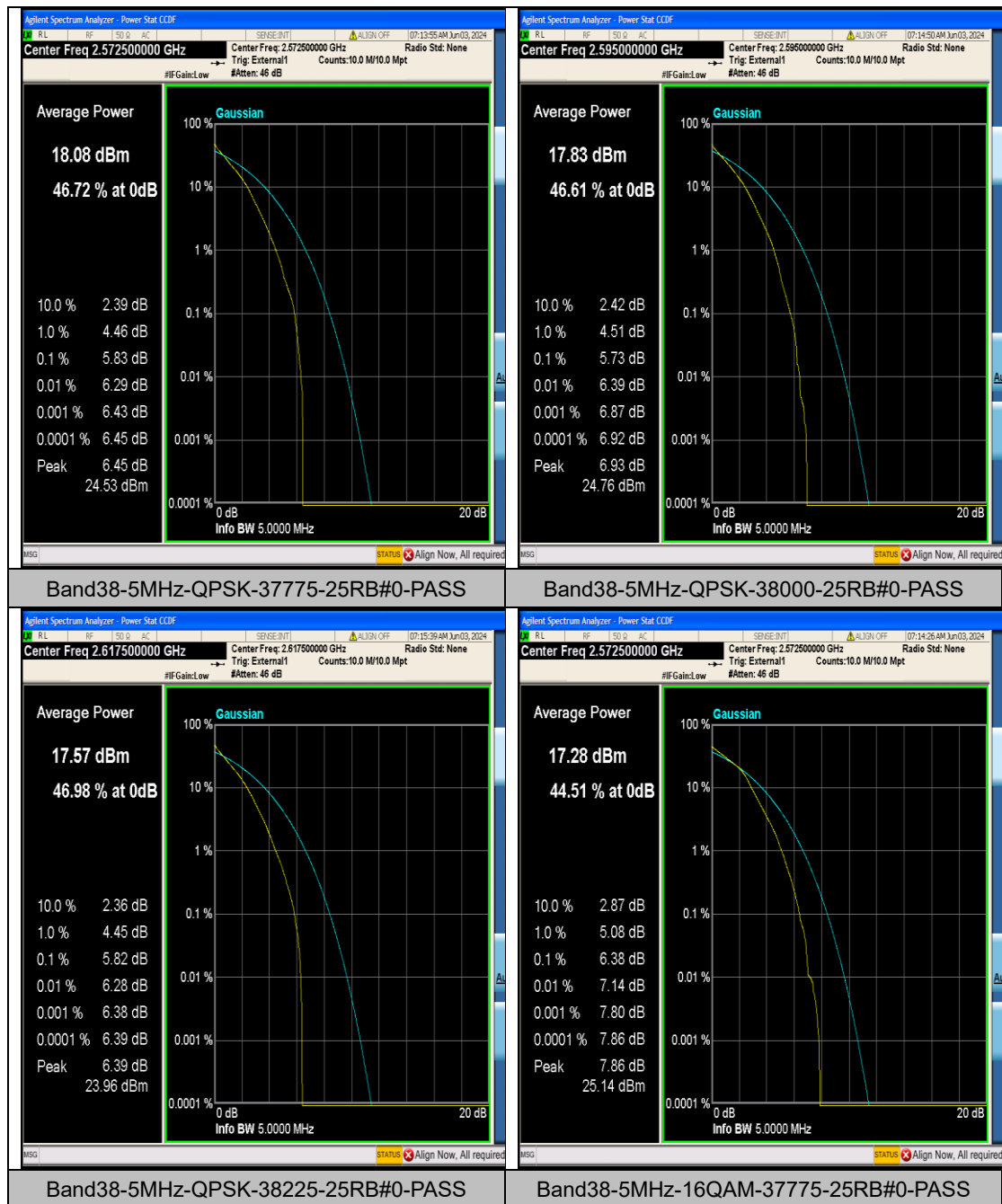
Reviewed By : **Eric Wang**

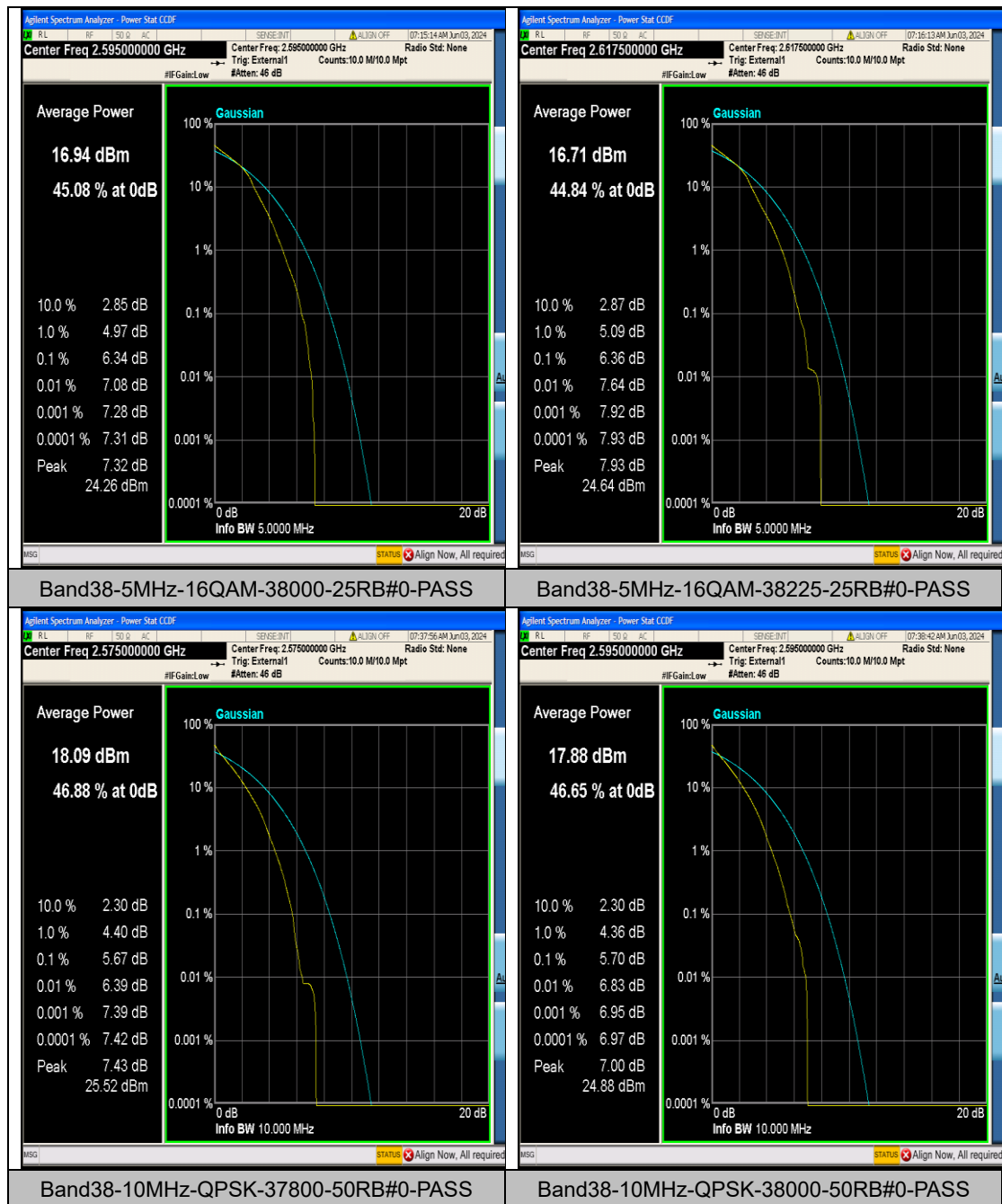
Appendix B: Peak-to-Average Ratio(CCDF)

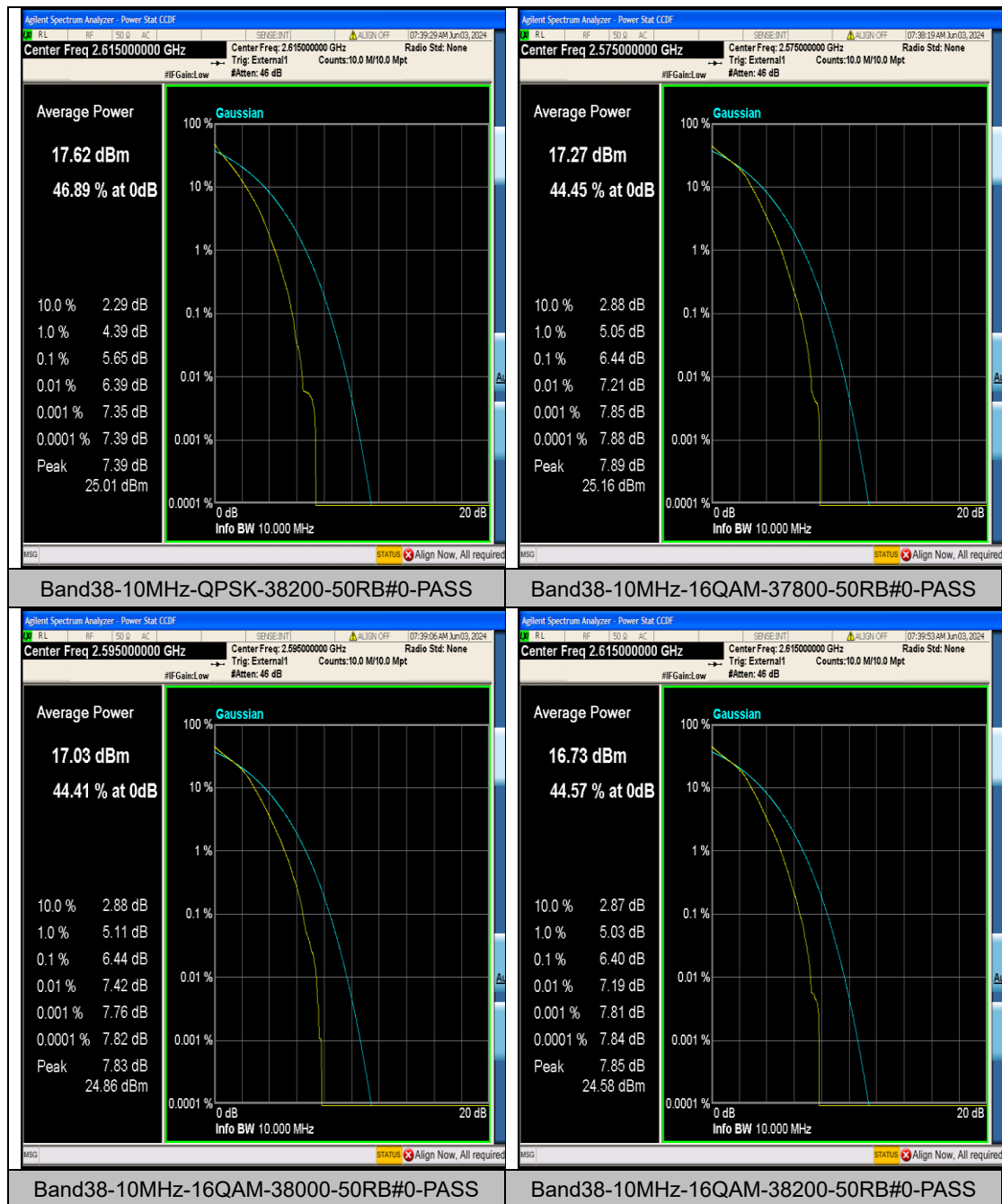
Test Result

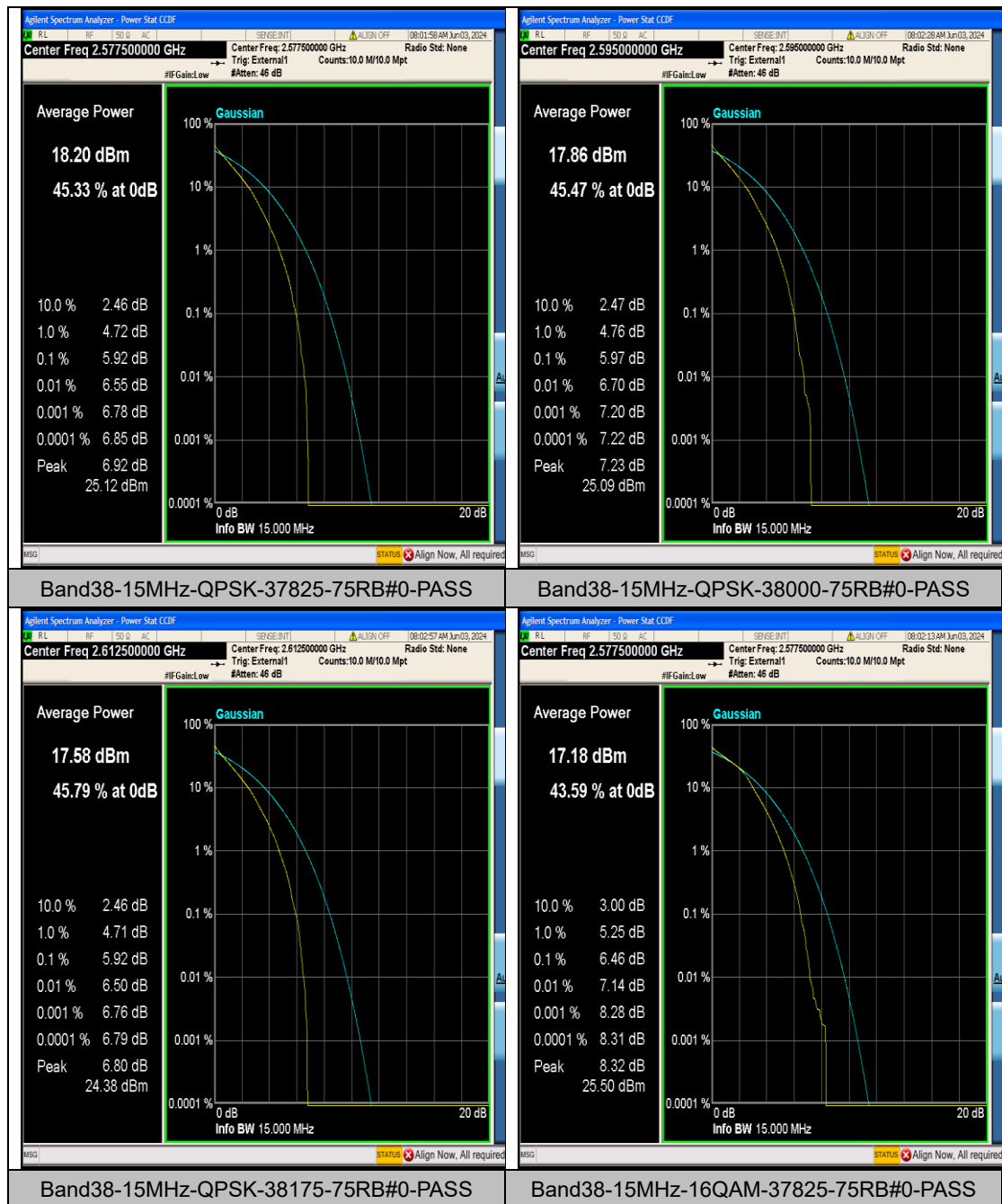
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band38	5MHz	QPSK	37775	25RB#0	5.83	13	PASS
Band38	5MHz	QPSK	38000	25RB#0	5.73	13	PASS
Band38	5MHz	QPSK	38225	25RB#0	5.82	13	PASS
Band38	5MHz	16QAM	37775	25RB#0	6.38	13	PASS
Band38	5MHz	16QAM	38000	25RB#0	6.34	13	PASS
Band38	5MHz	16QAM	38225	25RB#0	6.36	13	PASS
Band38	10MHz	QPSK	37800	50RB#0	5.67	13	PASS
Band38	10MHz	QPSK	38000	50RB#0	5.70	13	PASS
Band38	10MHz	QPSK	38200	50RB#0	5.65	13	PASS
Band38	10MHz	16QAM	37800	50RB#0	6.44	13	PASS
Band38	10MHz	16QAM	38000	50RB#0	6.44	13	PASS
Band38	10MHz	16QAM	38200	50RB#0	6.40	13	PASS
Band38	15MHz	QPSK	37825	75RB#0	5.92	13	PASS
Band38	15MHz	QPSK	38000	75RB#0	5.97	13	PASS
Band38	15MHz	QPSK	38175	75RB#0	5.92	13	PASS
Band38	15MHz	16QAM	37825	75RB#0	6.46	13	PASS
Band38	15MHz	16QAM	38000	75RB#0	6.44	13	PASS
Band38	15MHz	16QAM	38175	75RB#0	6.42	13	PASS
Band38	20MHz	QPSK	37850	100RB#0	5.51	13	PASS
Band38	20MHz	QPSK	38000	100RB#0	5.62	13	PASS
Band38	20MHz	QPSK	38150	100RB#0	5.42	13	PASS
Band38	20MHz	16QAM	37850	100RB#0	6.30	13	PASS
Band38	20MHz	16QAM	38000	100RB#0	6.45	13	PASS
Band38	20MHz	16QAM	38150	100RB#0	6.32	13	PASS

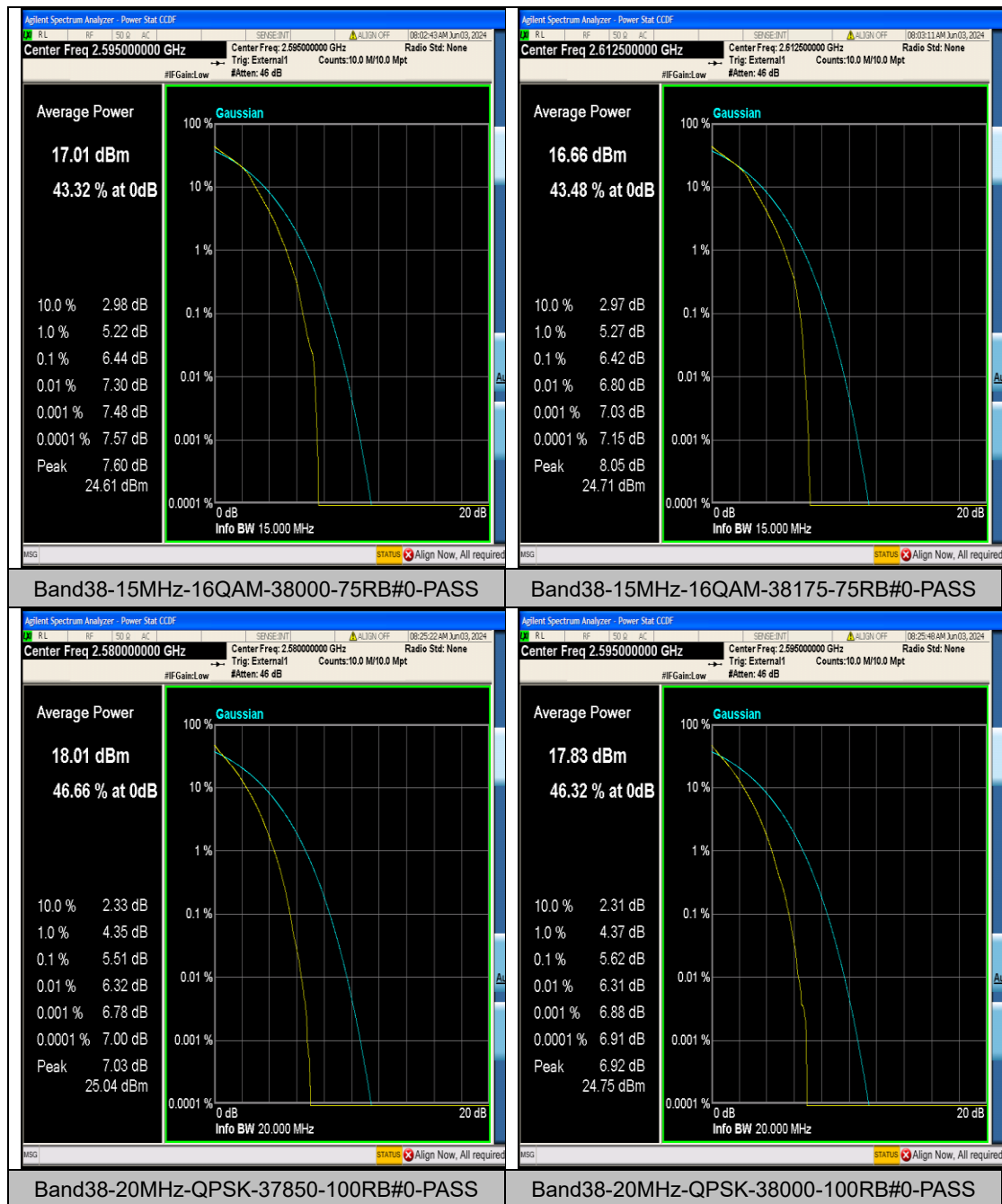
Test Graphs

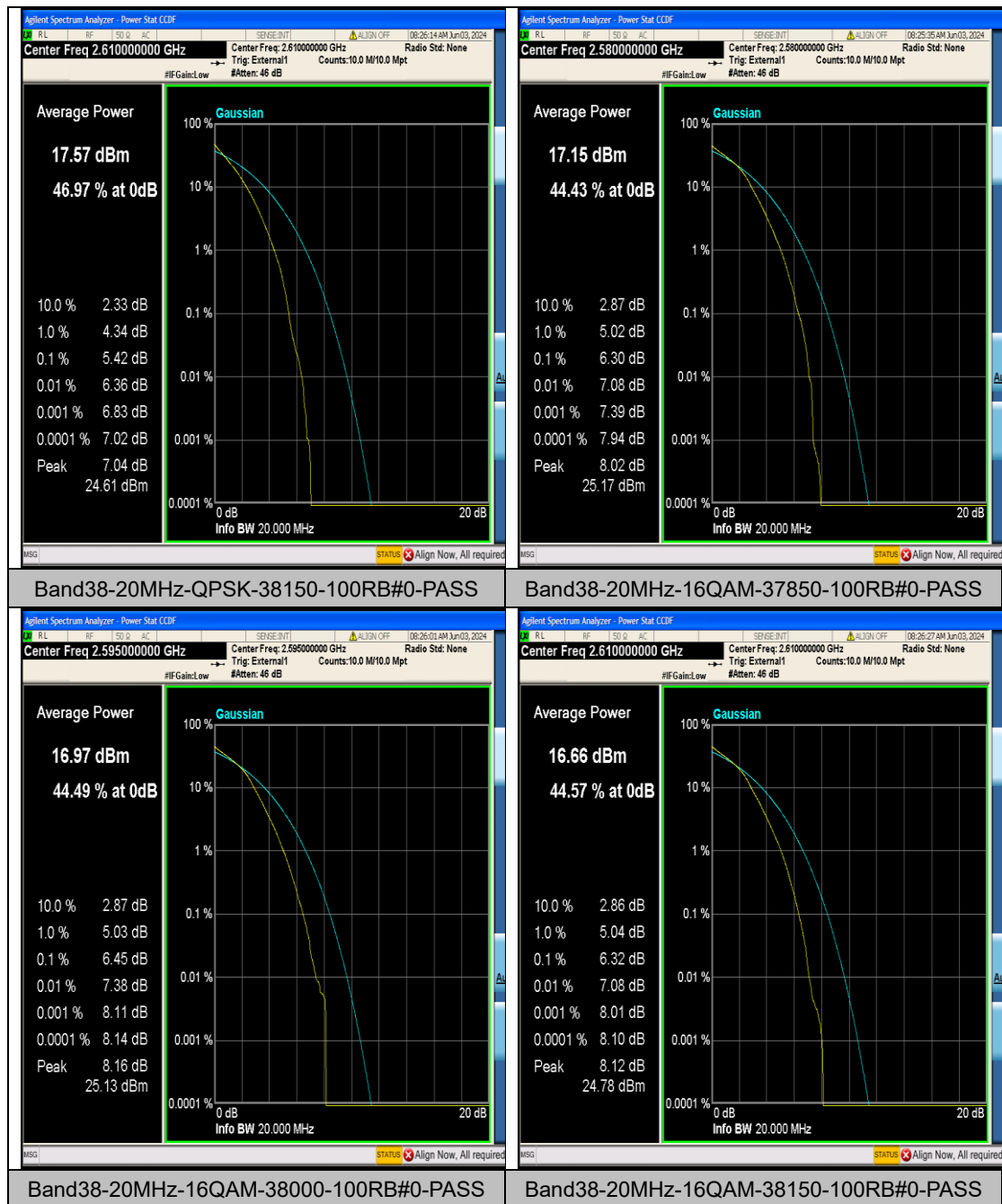










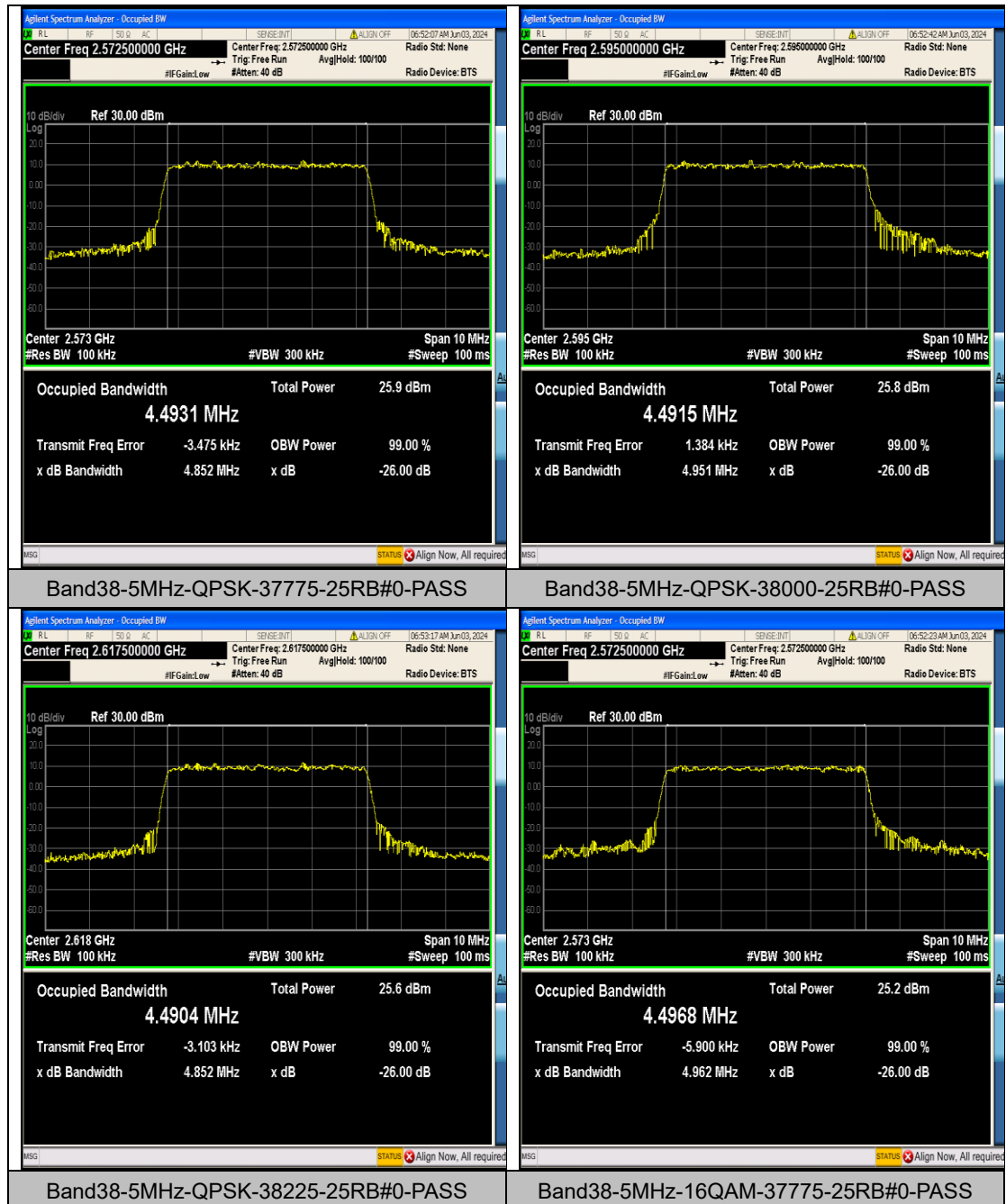


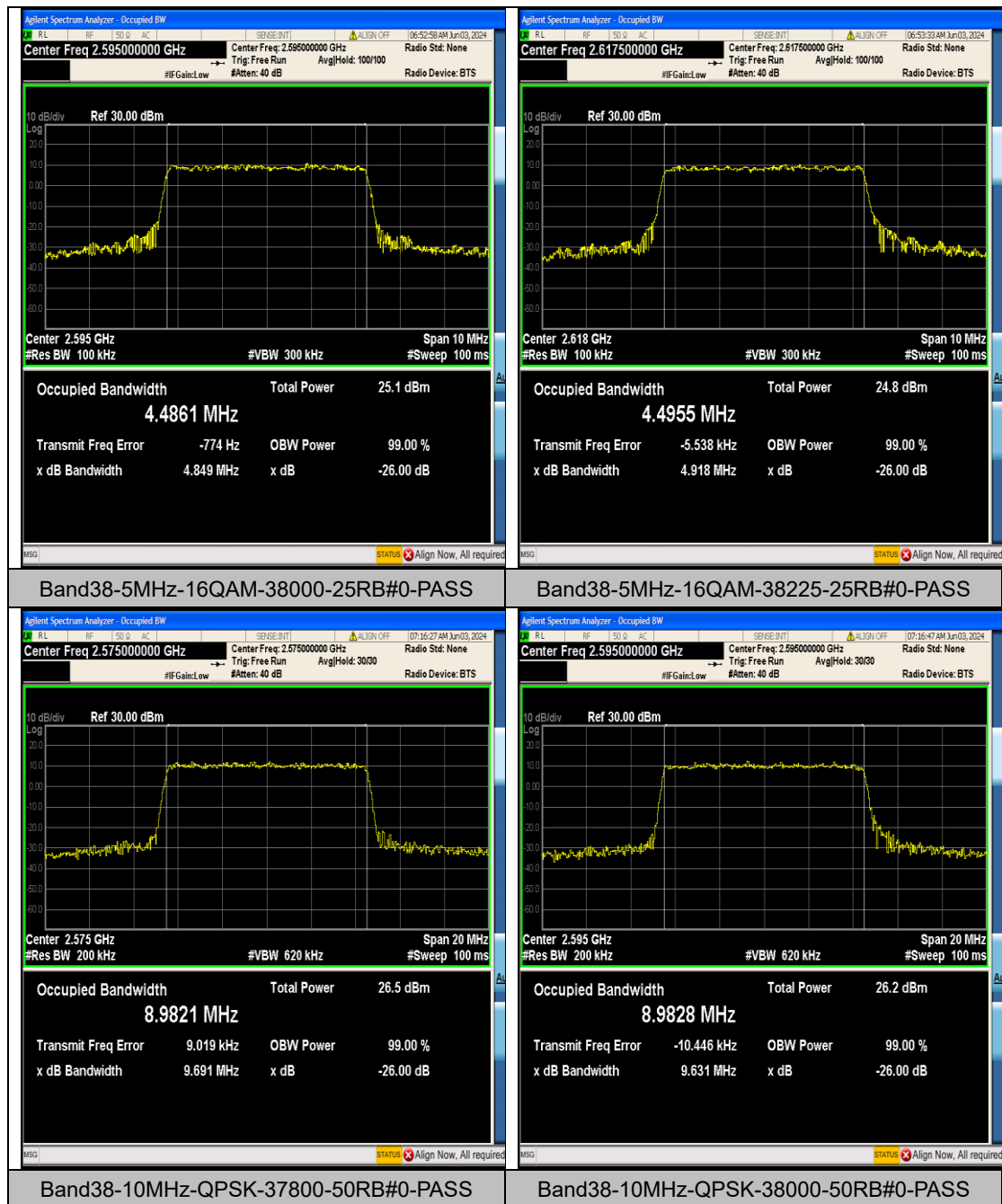
Appendix C: 26dB Bandwidth and Occupied Bandwidth

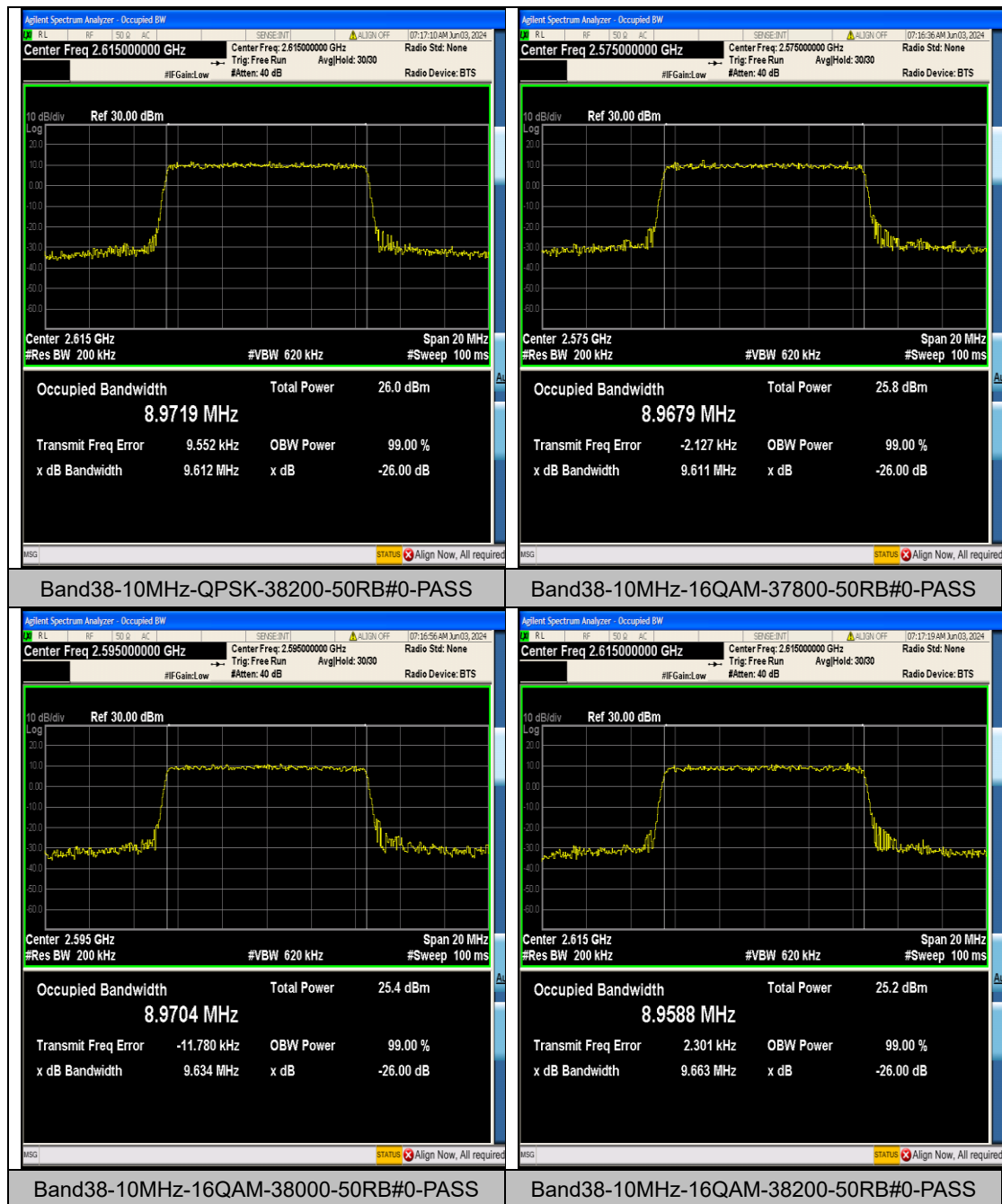
Test Result

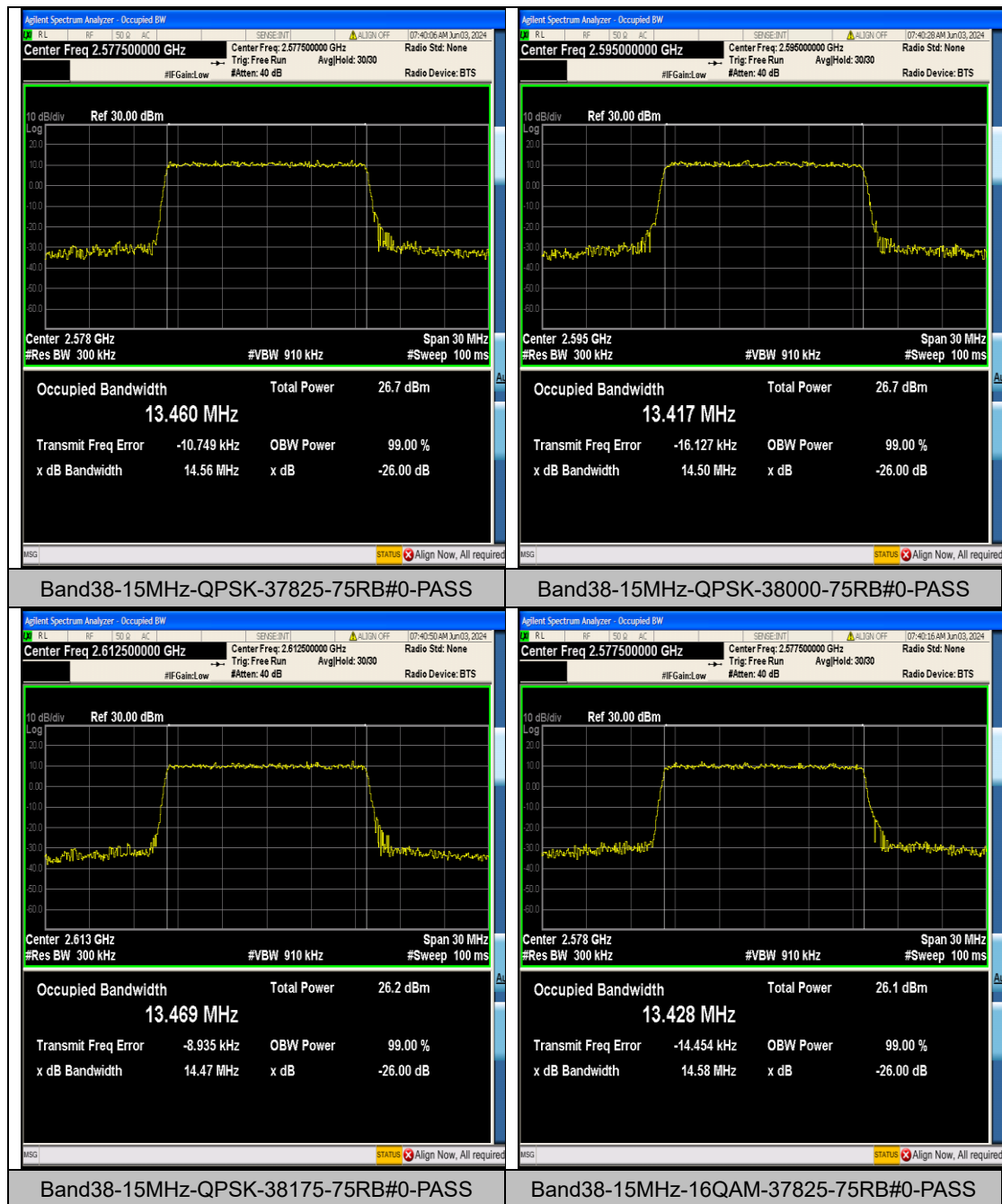
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band38	5MHz	QPSK	37775	25RB#0	4.4931	4.852	PASS
Band38	5MHz	QPSK	38000	25RB#0	4.4915	4.951	PASS
Band38	5MHz	QPSK	38225	25RB#0	4.4904	4.852	PASS
Band38	5MHz	16QAM	37775	25RB#0	4.4968	4.962	PASS
Band38	5MHz	16QAM	38000	25RB#0	4.4861	4.849	PASS
Band38	5MHz	16QAM	38225	25RB#0	4.4955	4.918	PASS
Band38	10MHz	QPSK	37800	50RB#0	8.9821	9.691	PASS
Band38	10MHz	QPSK	38000	50RB#0	8.9828	9.631	PASS
Band38	10MHz	QPSK	38200	50RB#0	8.9719	9.612	PASS
Band38	10MHz	16QAM	37800	50RB#0	8.9679	9.611	PASS
Band38	10MHz	16QAM	38000	50RB#0	8.9704	9.634	PASS
Band38	10MHz	16QAM	38200	50RB#0	8.9588	9.663	PASS
Band38	15MHz	QPSK	37825	75RB#0	13.460	14.56	PASS
Band38	15MHz	QPSK	38000	75RB#0	13.417	14.50	PASS
Band38	15MHz	QPSK	38175	75RB#0	13.469	14.47	PASS
Band38	15MHz	16QAM	37825	75RB#0	13.428	14.58	PASS
Band38	15MHz	16QAM	38000	75RB#0	13.460	14.61	PASS
Band38	15MHz	16QAM	38175	75RB#0	13.463	14.61	PASS
Band38	20MHz	QPSK	37850	100RB#0	17.952	19.42	PASS
Band38	20MHz	QPSK	38000	100RB#0	17.932	19.57	PASS
Band38	20MHz	QPSK	38150	100RB#0	17.954	19.52	PASS
Band38	20MHz	16QAM	37850	100RB#0	17.909	19.47	PASS
Band38	20MHz	16QAM	38000	100RB#0	17.899	19.41	PASS
Band38	20MHz	16QAM	38150	100RB#0	17.911	19.50	PASS

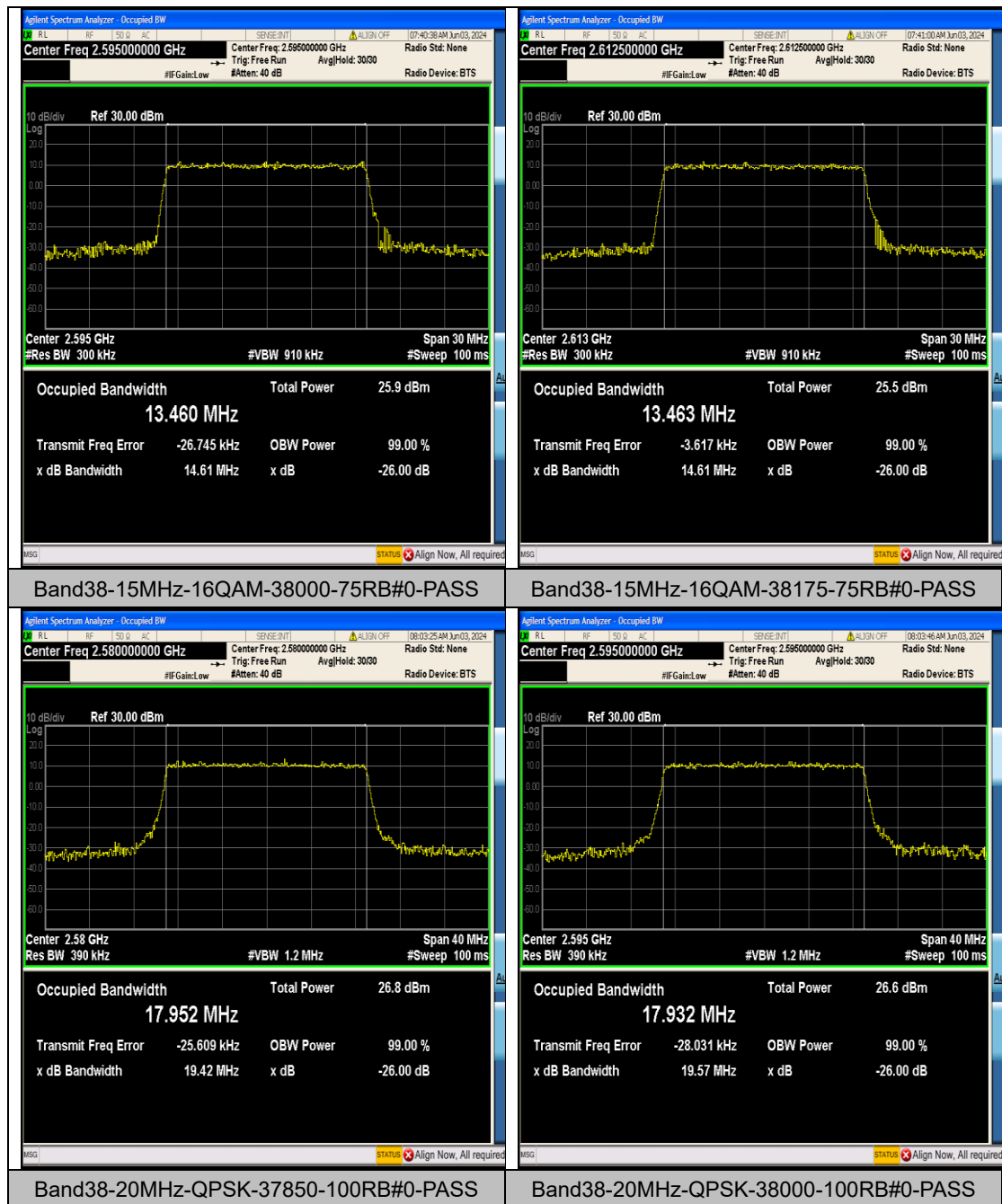
Test Graphs

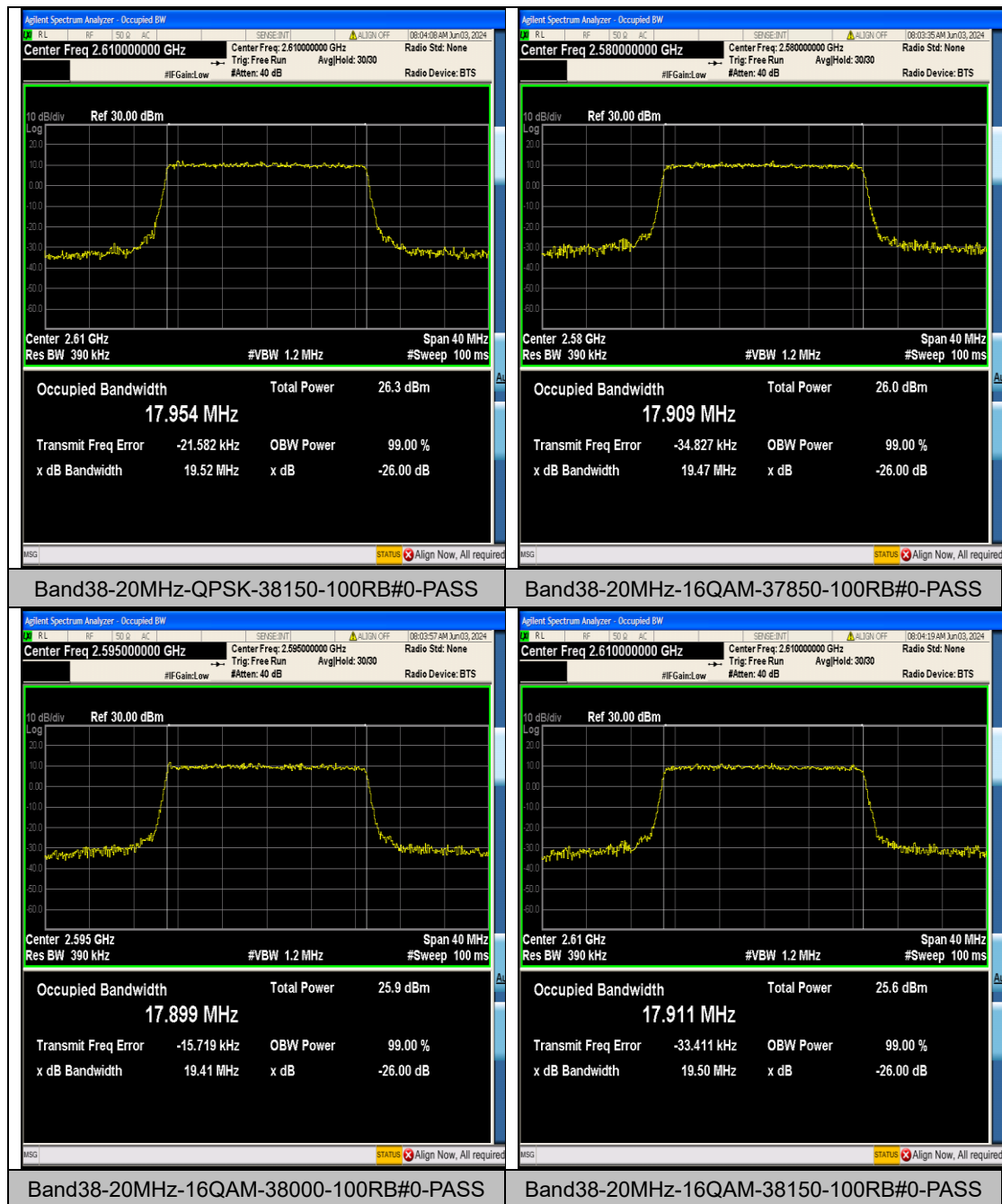










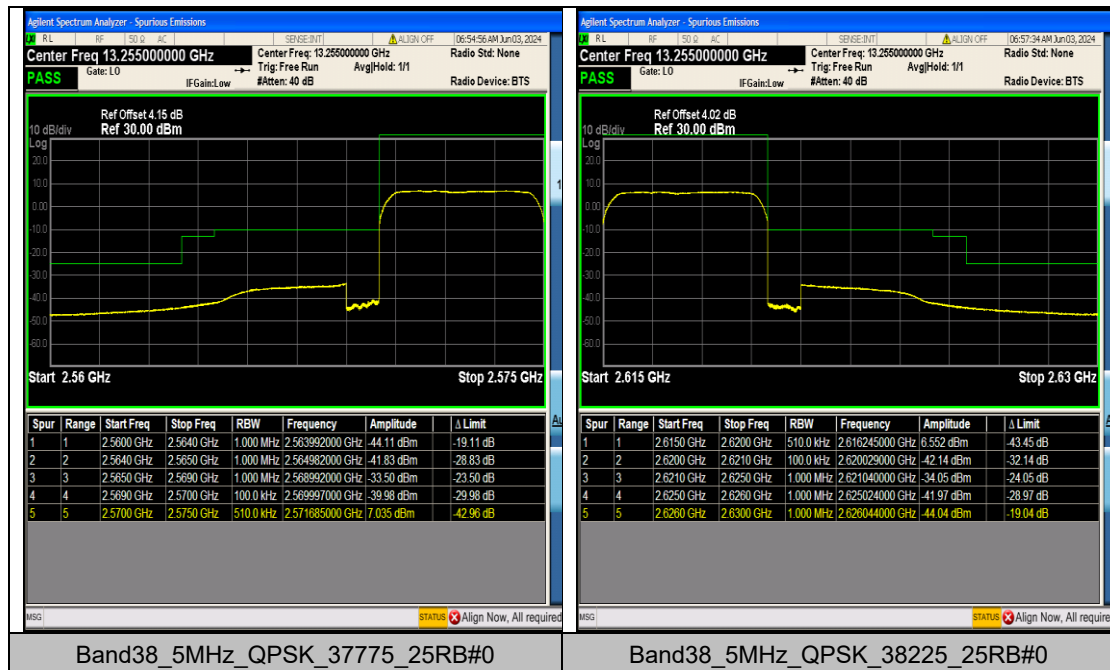


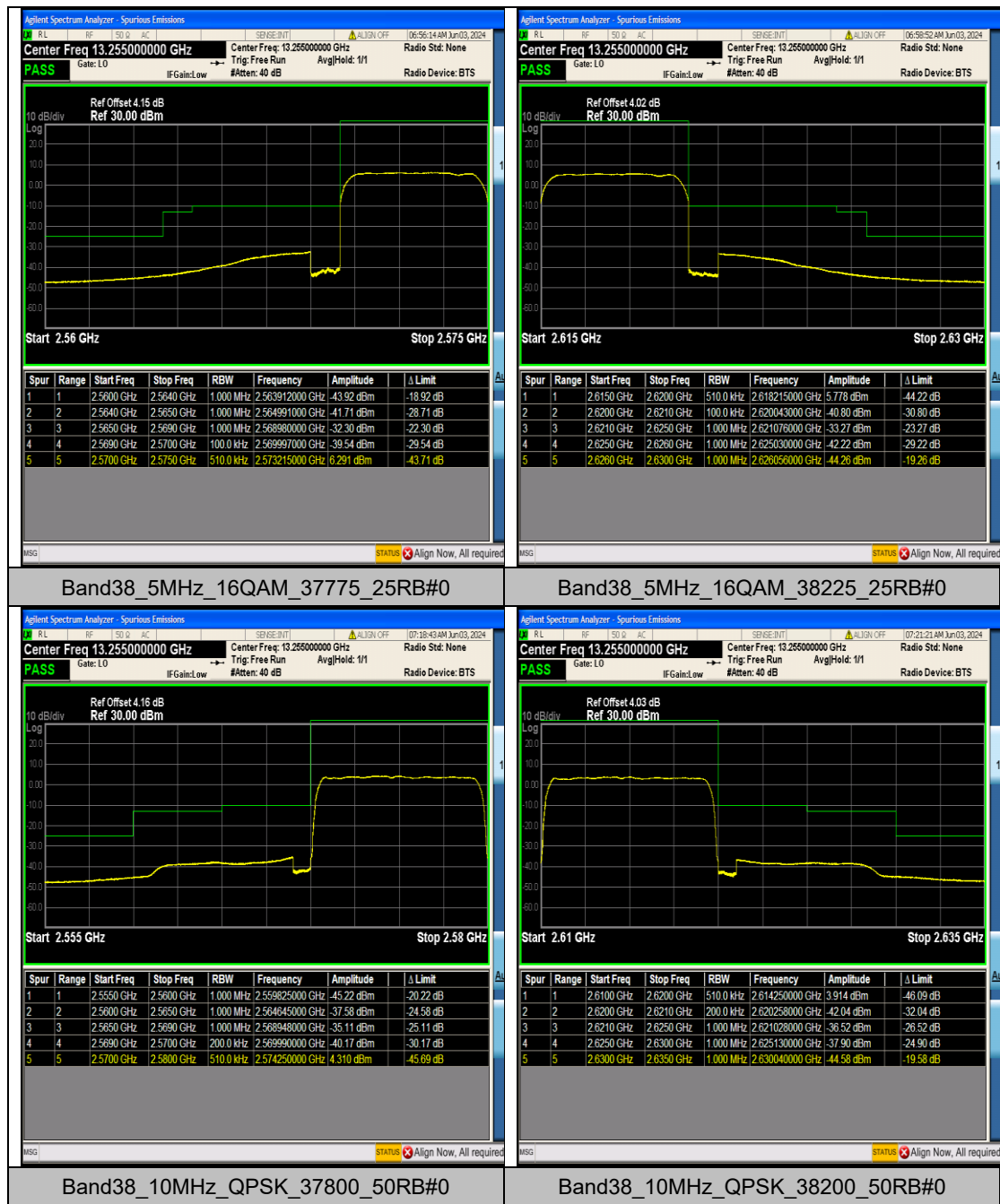
Appendix D: Band Edge

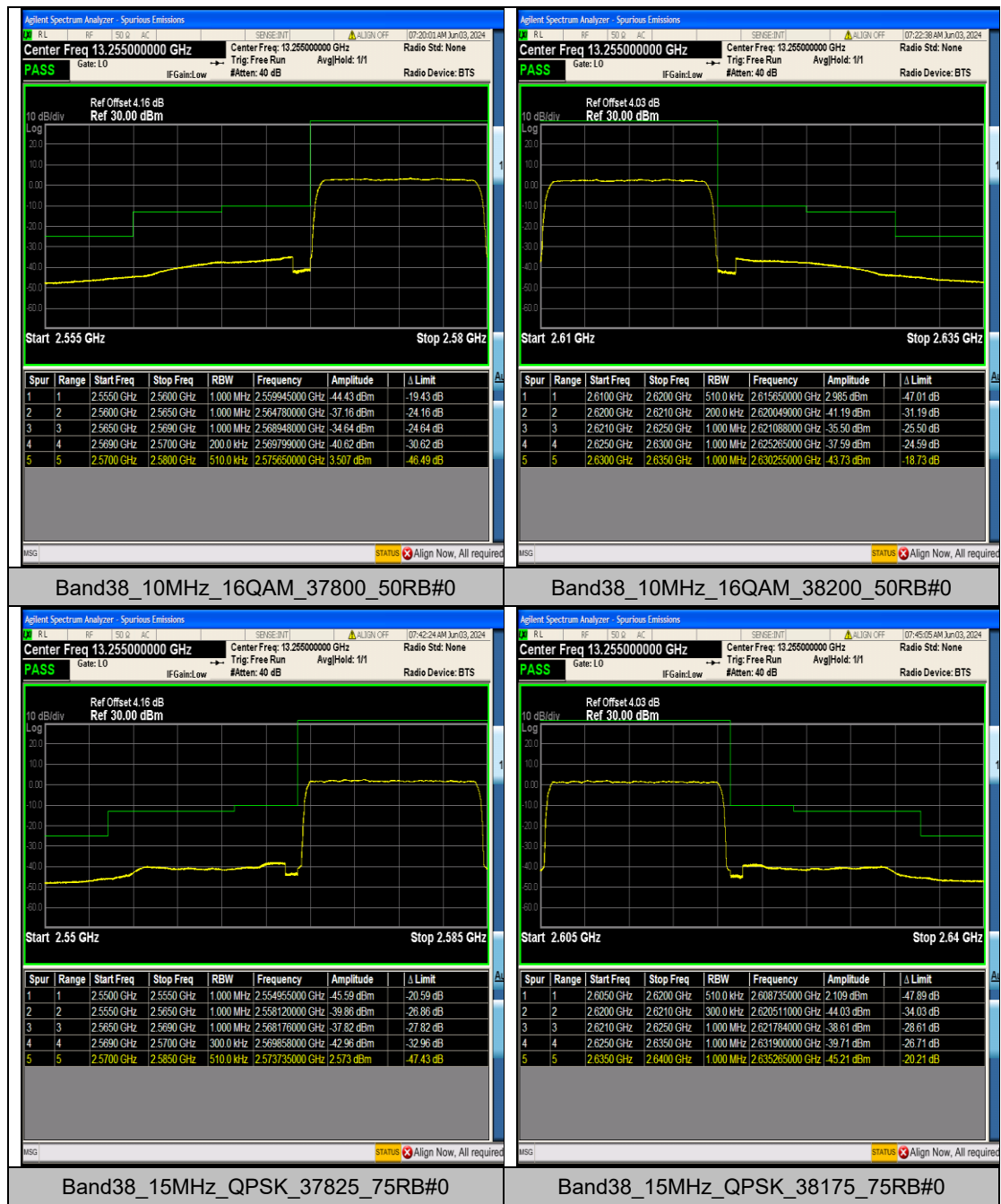
Test Result

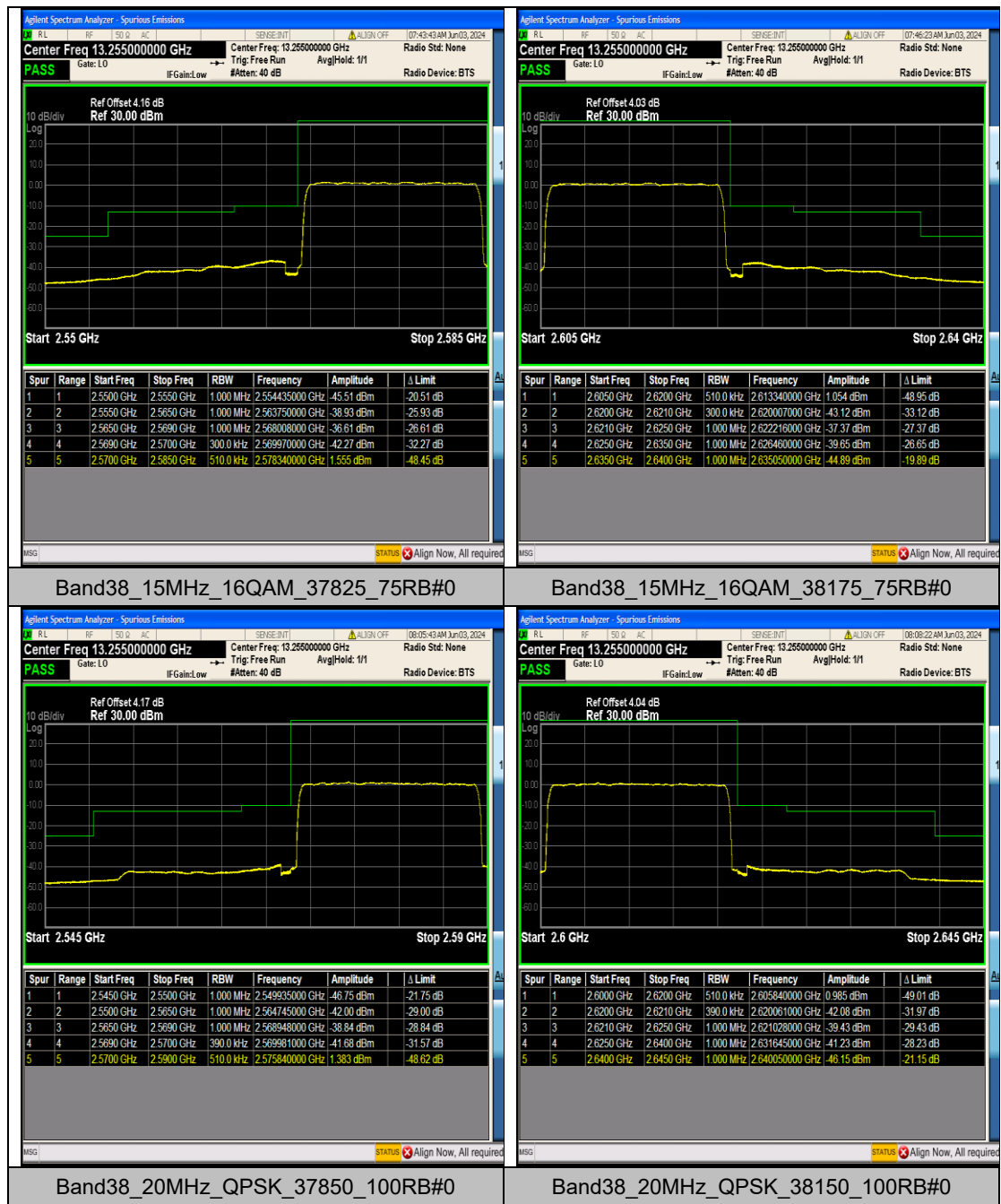
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band38	5MHz	QPSK	37775	25RB#0	-44.11	PASS
Band38	5MHz	QPSK	38225	25RB#0	-44.04	PASS
Band38	5MHz	16QAM	37775	25RB#0	-43.92	PASS
Band38	5MHz	16QAM	38225	25RB#0	-44.26	PASS
Band38	10MHz	QPSK	37800	50RB#0	-45.22	PASS
Band38	10MHz	QPSK	38200	50RB#0	-44.58	PASS
Band38	10MHz	16QAM	37800	50RB#0	-44.43	PASS
Band38	10MHz	16QAM	38200	50RB#0	-43.73	PASS
Band38	15MHz	QPSK	37825	75RB#0	-45.59	PASS
Band38	15MHz	QPSK	38175	75RB#0	-45.21	PASS
Band38	15MHz	16QAM	37825	75RB#0	-45.51	PASS
Band38	15MHz	16QAM	38175	75RB#0	-44.89	PASS
Band38	20MHz	QPSK	37850	100RB#0	-46.75	PASS
Band38	20MHz	QPSK	38150	100RB#0	-46.15	PASS
Band38	20MHz	16QAM	37850	100RB#0	-46.29	PASS
Band38	20MHz	16QAM	38150	100RB#0	-45.78	PASS

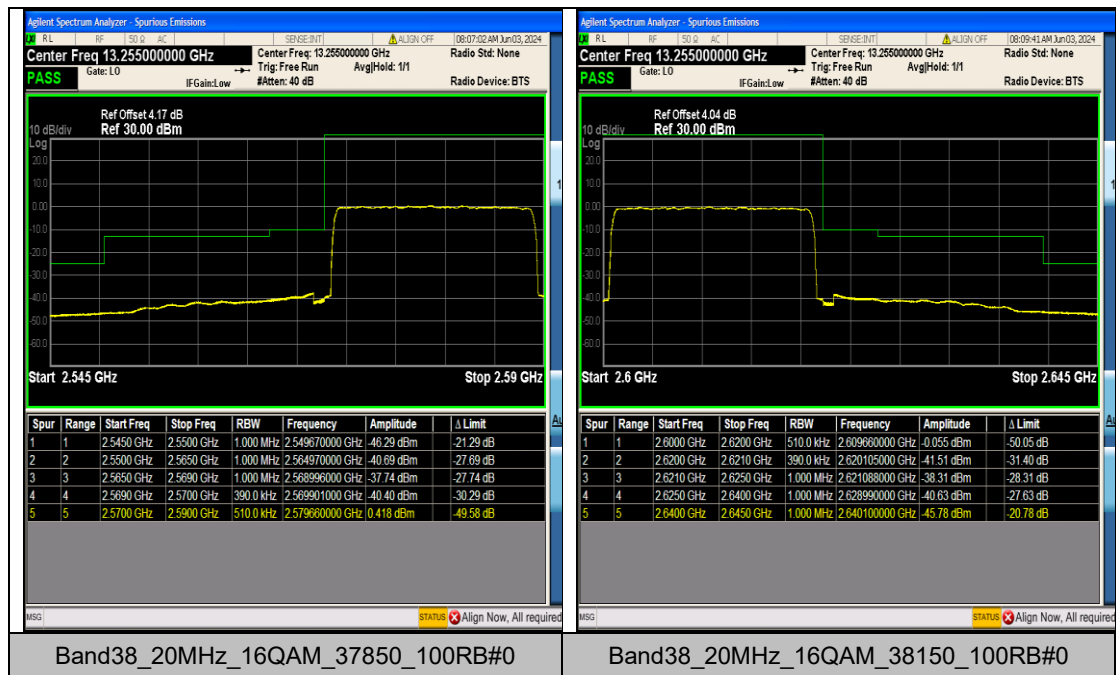
Test Graphs











Band38_20MHz_16QAM_37850_100RB#0

Band38_20MHz_16QAM_38150_100RB#0

Appendix E: Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band38	5MHz	QPSK	37775	25RB#0	0.009~0.15	-73.91	PASS
Band38	5MHz	QPSK	37775	25RB#0	0.15~30	-65.36	PASS
Band38	5MHz	QPSK	37775	25RB#0	30~1000	-66.71	PASS
Band38	5MHz	QPSK	37775	25RB#0	1000~20000	-46.10	PASS
Band38	5MHz	QPSK	37775	25RB#0	20000~27000	-40.00	PASS
Band38	5MHz	QPSK	38000	25RB#0	0.009~0.15	-73.18	PASS
Band38	5MHz	QPSK	38000	25RB#0	0.15~30	-66.93	PASS
Band38	5MHz	QPSK	38000	25RB#0	30~1000	-66.46	PASS
Band38	5MHz	QPSK	38000	25RB#0	1000~20000	-46.18	PASS
Band38	5MHz	QPSK	38000	25RB#0	20000~27000	-39.60	PASS
Band38	5MHz	QPSK	38225	25RB#0	0.009~0.15	-72.38	PASS
Band38	5MHz	QPSK	38225	25RB#0	0.15~30	-66.31	PASS
Band38	5MHz	QPSK	38225	25RB#0	30~1000	-66.86	PASS
Band38	5MHz	QPSK	38225	25RB#0	1000~20000	-45.04	PASS
Band38	5MHz	QPSK	38225	25RB#0	20000~27000	-40.06	PASS
Band38	5MHz	16QAM	37775	25RB#0	0.009~0.15	-73.46	PASS
Band38	5MHz	16QAM	37775	25RB#0	0.15~30	-67.27	PASS
Band38	5MHz	16QAM	37775	25RB#0	30~1000	-66.59	PASS
Band38	5MHz	16QAM	37775	25RB#0	1000~20000	-46.38	PASS
Band38	5MHz	16QAM	37775	25RB#0	20000~27000	-40.01	PASS
Band38	5MHz	16QAM	38000	25RB#0	0.009~0.15	-73.69	PASS
Band38	5MHz	16QAM	38000	25RB#0	0.15~30	-65.25	PASS
Band38	5MHz	16QAM	38000	25RB#0	30~1000	-66.75	PASS
Band38	5MHz	16QAM	38000	25RB#0	1000~20000	-46.36	PASS
Band38	5MHz	16QAM	38000	25RB#0	20000~27000	-39.90	PASS
Band38	5MHz	16QAM	38225	25RB#0	0.009~0.15	-74.66	PASS
Band38	5MHz	16QAM	38225	25RB#0	0.15~30	-67.99	PASS
Band38	5MHz	16QAM	38225	25RB#0	30~1000	-66.54	PASS
Band38	5MHz	16QAM	38225	25RB#0	1000~20000	-46.04	PASS
Band38	5MHz	16QAM	38225	25RB#0	20000~27000	-39.70	PASS
Band38	10MHz	QPSK	37800	50RB#0	0.009~0.15	-71.84	PASS
Band38	10MHz	QPSK	37800	50RB#0	0.15~30	-69.14	PASS
Band38	10MHz	QPSK	37800	50RB#0	30~1000	-66.71	PASS
Band38	10MHz	QPSK	37800	50RB#0	1000~20000	-46.29	PASS
Band38	10MHz	QPSK	37800	50RB#0	20000~27000	-39.93	PASS
Band38	10MHz	QPSK	38000	50RB#0	0.009~0.15	-73.41	PASS

Band38	10MHz	QPSK	38000	50RB#0	0.15~30	-66.74	PASS
Band38	10MHz	QPSK	38000	50RB#0	30~1000	-66.58	PASS
Band38	10MHz	QPSK	38000	50RB#0	1000~20000	-46.24	PASS
Band38	10MHz	QPSK	38000	50RB#0	20000~27000	-39.79	PASS
Band38	10MHz	QPSK	38200	50RB#0	0.009~0.15	-73.63	PASS
Band38	10MHz	QPSK	38200	50RB#0	0.15~30	-67.91	PASS
Band38	10MHz	QPSK	38200	50RB#0	30~1000	-66.54	PASS
Band38	10MHz	QPSK	38200	50RB#0	1000~20000	-46.10	PASS
Band38	10MHz	QPSK	38200	50RB#0	20000~27000	-39.61	PASS
Band38	10MHz	16QAM	37800	50RB#0	0.009~0.15	-74.57	PASS
Band38	10MHz	16QAM	37800	50RB#0	0.15~30	-66.17	PASS
Band38	10MHz	16QAM	37800	50RB#0	30~1000	-66.78	PASS
Band38	10MHz	16QAM	37800	50RB#0	1000~20000	-46.16	PASS
Band38	10MHz	16QAM	37800	50RB#0	20000~27000	-39.91	PASS
Band38	10MHz	16QAM	38000	50RB#0	0.009~0.15	-73.52	PASS
Band38	10MHz	16QAM	38000	50RB#0	0.15~30	-64.26	PASS
Band38	10MHz	16QAM	38000	50RB#0	30~1000	-66.44	PASS
Band38	10MHz	16QAM	38000	50RB#0	1000~20000	-46.22	PASS
Band38	10MHz	16QAM	38000	50RB#0	20000~27000	-39.82	PASS
Band38	10MHz	16QAM	38200	50RB#0	0.009~0.15	-72.88	PASS
Band38	10MHz	16QAM	38200	50RB#0	0.15~30	-66.10	PASS
Band38	10MHz	16QAM	38200	50RB#0	30~1000	-66.82	PASS
Band38	10MHz	16QAM	38200	50RB#0	1000~20000	-45.83	PASS
Band38	10MHz	16QAM	38200	50RB#0	20000~27000	-39.52	PASS
Band38	15MHz	QPSK	37825	75RB#0	0.009~0.15	-71.15	PASS
Band38	15MHz	QPSK	37825	75RB#0	0.15~30	-67.04	PASS
Band38	15MHz	QPSK	37825	75RB#0	30~1000	-66.70	PASS
Band38	15MHz	QPSK	37825	75RB#0	1000~20000	-46.23	PASS
Band38	15MHz	QPSK	37825	75RB#0	20000~27000	-39.89	PASS
Band38	15MHz	QPSK	38000	75RB#0	0.009~0.15	-72.48	PASS
Band38	15MHz	QPSK	38000	75RB#0	0.15~30	-67.95	PASS
Band38	15MHz	QPSK	38000	75RB#0	30~1000	-66.72	PASS
Band38	15MHz	QPSK	38000	75RB#0	1000~20000	-46.41	PASS
Band38	15MHz	QPSK	38000	75RB#0	20000~27000	-39.93	PASS
Band38	15MHz	QPSK	38175	75RB#0	0.009~0.15	-74.88	PASS
Band38	15MHz	QPSK	38175	75RB#0	0.15~30	-66.77	PASS
Band38	15MHz	QPSK	38175	75RB#0	30~1000	-66.73	PASS
Band38	15MHz	QPSK	38175	75RB#0	1000~20000	-46.54	PASS
Band38	15MHz	QPSK	38175	75RB#0	20000~27000	-39.92	PASS
Band38	15MHz	16QAM	37825	75RB#0	0.009~0.15	-73.08	PASS
Band38	15MHz	16QAM	37825	75RB#0	0.15~30	-68.86	PASS
Band38	15MHz	16QAM	37825	75RB#0	30~1000	-66.93	PASS
Band38	15MHz	16QAM	37825	75RB#0	1000~20000	-46.04	PASS

Band38	15MHz	16QAM	37825	75RB#0	20000~27000	-39.84	PASS
Band38	15MHz	16QAM	38000	75RB#0	0.009~0.15	-71.99	PASS
Band38	15MHz	16QAM	38000	75RB#0	0.15~30	-65.32	PASS
Band38	15MHz	16QAM	38000	75RB#0	30~1000	-66.58	PASS
Band38	15MHz	16QAM	38000	75RB#0	1000~20000	-46.40	PASS
Band38	15MHz	16QAM	38000	75RB#0	20000~27000	-39.72	PASS
Band38	15MHz	16QAM	38175	75RB#0	0.009~0.15	-72.88	PASS
Band38	15MHz	16QAM	38175	75RB#0	0.15~30	-66.38	PASS
Band38	15MHz	16QAM	38175	75RB#0	30~1000	-66.39	PASS
Band38	15MHz	16QAM	38175	75RB#0	1000~20000	-46.25	PASS
Band38	15MHz	16QAM	38175	75RB#0	20000~27000	-39.56	PASS
Band38	20MHz	QPSK	37850	100RB#0	0.009~0.15	-73.05	PASS
Band38	20MHz	QPSK	37850	100RB#0	0.15~30	-66.91	PASS
Band38	20MHz	QPSK	37850	100RB#0	30~1000	-66.77	PASS
Band38	20MHz	QPSK	37850	100RB#0	1000~20000	-46.50	PASS
Band38	20MHz	QPSK	37850	100RB#0	20000~27000	-39.92	PASS
Band38	20MHz	QPSK	38000	100RB#0	0.009~0.15	-76.49	PASS
Band38	20MHz	QPSK	38000	100RB#0	0.15~30	-68.01	PASS
Band38	20MHz	QPSK	38000	100RB#0	30~1000	-66.81	PASS
Band38	20MHz	QPSK	38000	100RB#0	1000~20000	-46.32	PASS
Band38	20MHz	QPSK	38000	100RB#0	20000~27000	-39.54	PASS
Band38	20MHz	QPSK	38150	100RB#0	0.009~0.15	-73.76	PASS
Band38	20MHz	QPSK	38150	100RB#0	0.15~30	-67.12	PASS
Band38	20MHz	QPSK	38150	100RB#0	30~1000	-66.21	PASS
Band38	20MHz	QPSK	38150	100RB#0	1000~20000	-46.13	PASS
Band38	20MHz	QPSK	38150	100RB#0	20000~27000	-39.93	PASS
Band38	20MHz	16QAM	37850	100RB#0	0.009~0.15	-73.75	PASS
Band38	20MHz	16QAM	37850	100RB#0	0.15~30	-65.83	PASS
Band38	20MHz	16QAM	37850	100RB#0	30~1000	-66.64	PASS
Band38	20MHz	16QAM	37850	100RB#0	1000~20000	-46.36	PASS
Band38	20MHz	16QAM	37850	100RB#0	20000~27000	-39.54	PASS
Band38	20MHz	16QAM	38000	100RB#0	0.009~0.15	-72.26	PASS
Band38	20MHz	16QAM	38000	100RB#0	0.15~30	-69.38	PASS
Band38	20MHz	16QAM	38000	100RB#0	30~1000	-66.86	PASS
Band38	20MHz	16QAM	38000	100RB#0	1000~20000	-46.13	PASS
Band38	20MHz	16QAM	38000	100RB#0	20000~27000	-39.72	PASS
Band38	20MHz	16QAM	38150	100RB#0	0.009~0.15	-74.14	PASS
Band38	20MHz	16QAM	38150	100RB#0	0.15~30	-67.57	PASS
Band38	20MHz	16QAM	38150	100RB#0	30~1000	-66.60	PASS
Band38	20MHz	16QAM	38150	100RB#0	1000~20000	-46.33	PASS
Band38	20MHz	16QAM	38150	100RB#0	20000~27000	-39.67	PASS

Test Graphs

