

FCC LTE Band Test Data

FCC ID : 2BL85-LEM

Company: : SHENZHEN WAYFOR WARD ELECTRONIC CO.,LTD

EUT : smart watch

Model Number : LEM10

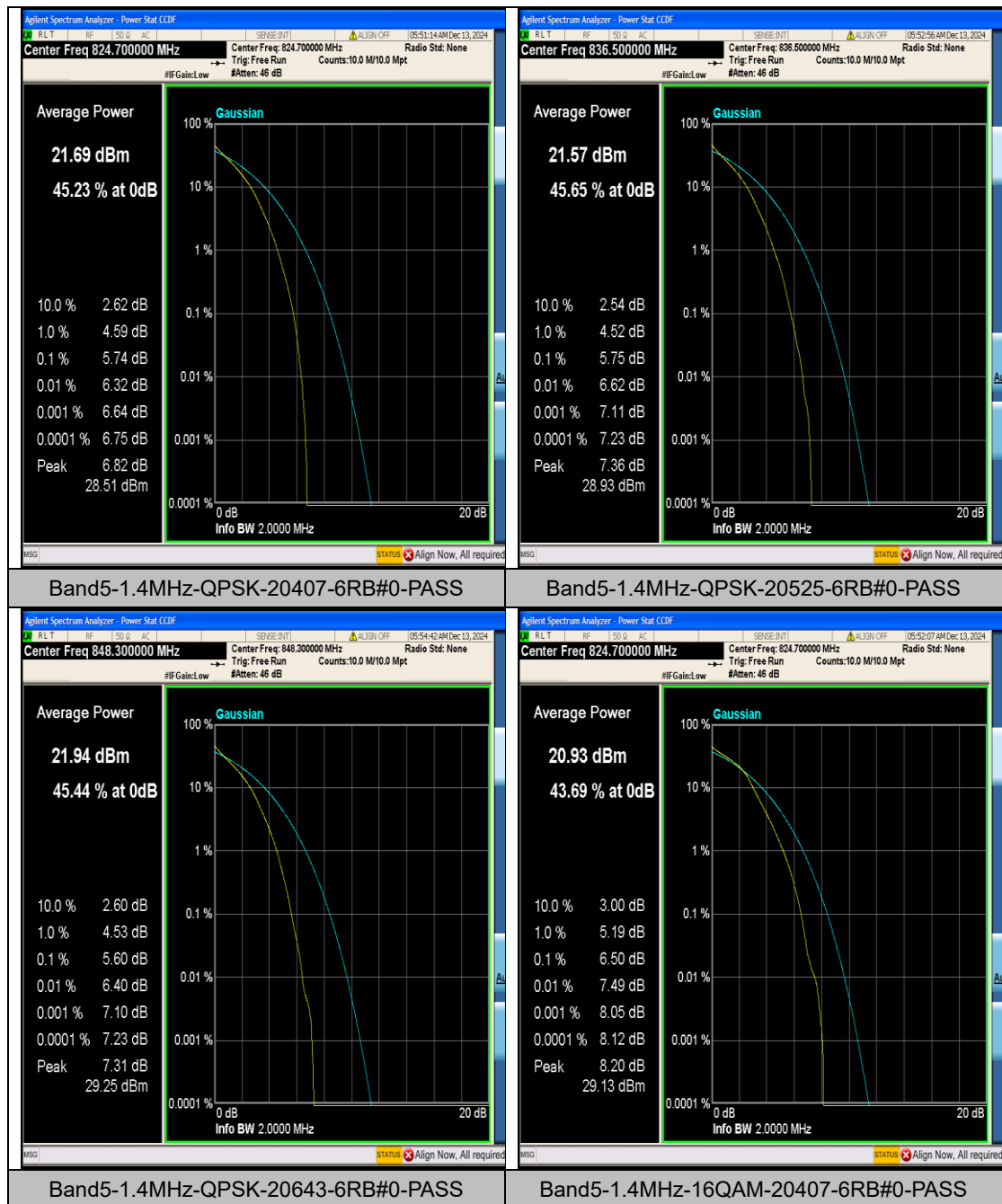
Reviewed By : Eric Wang

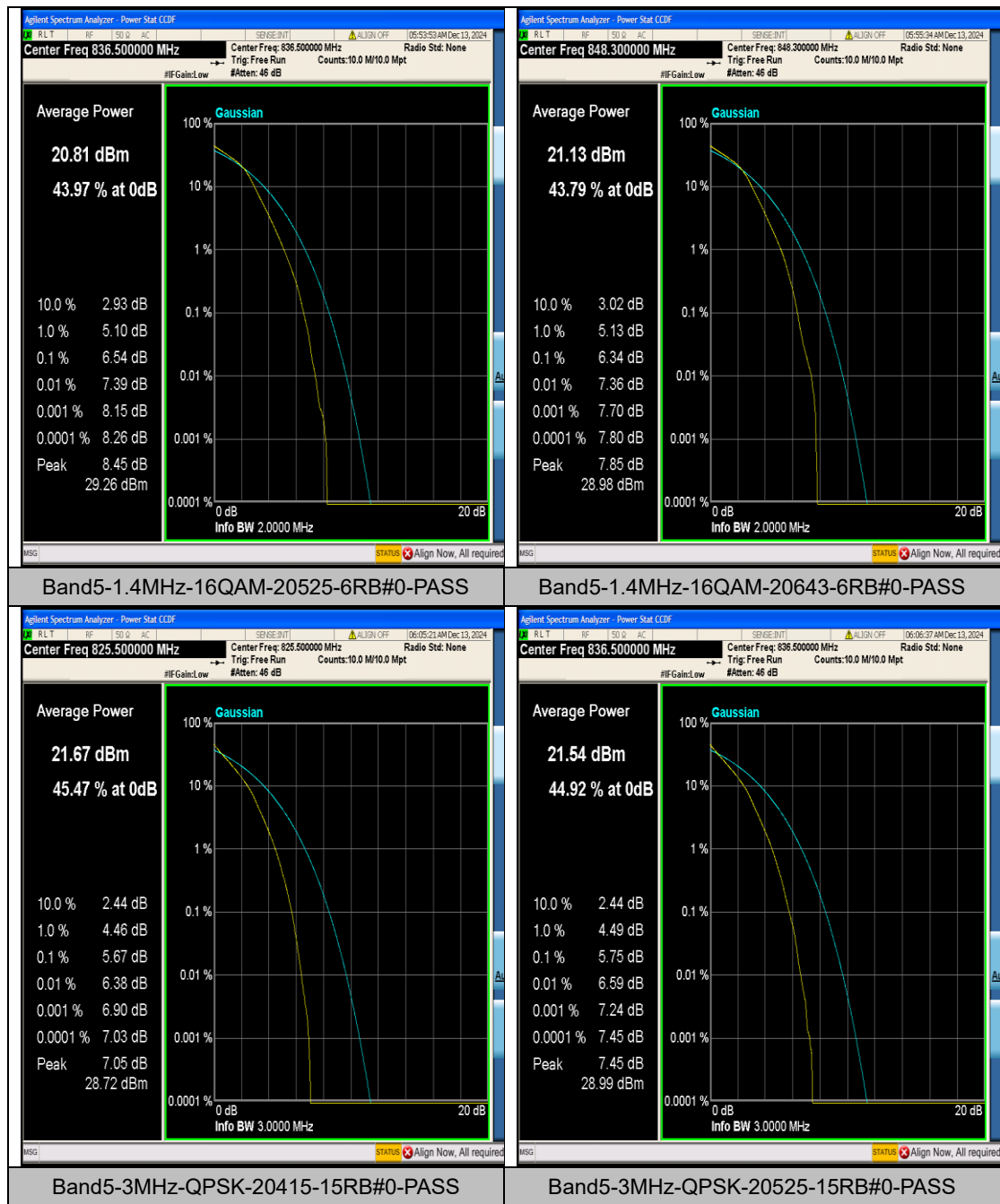
Appendix B: Peak-to-Average Ratio(CCDF)

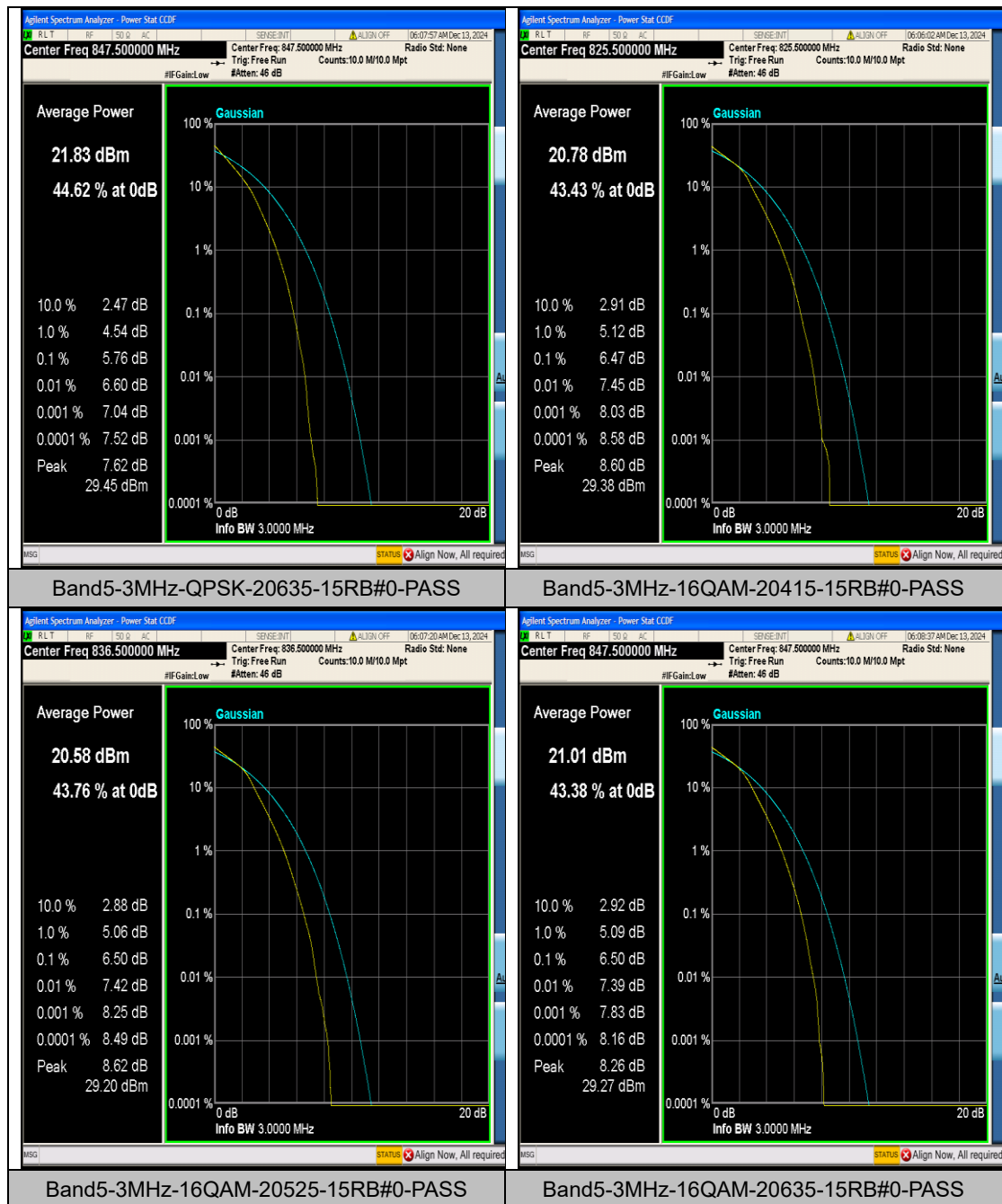
Test Result

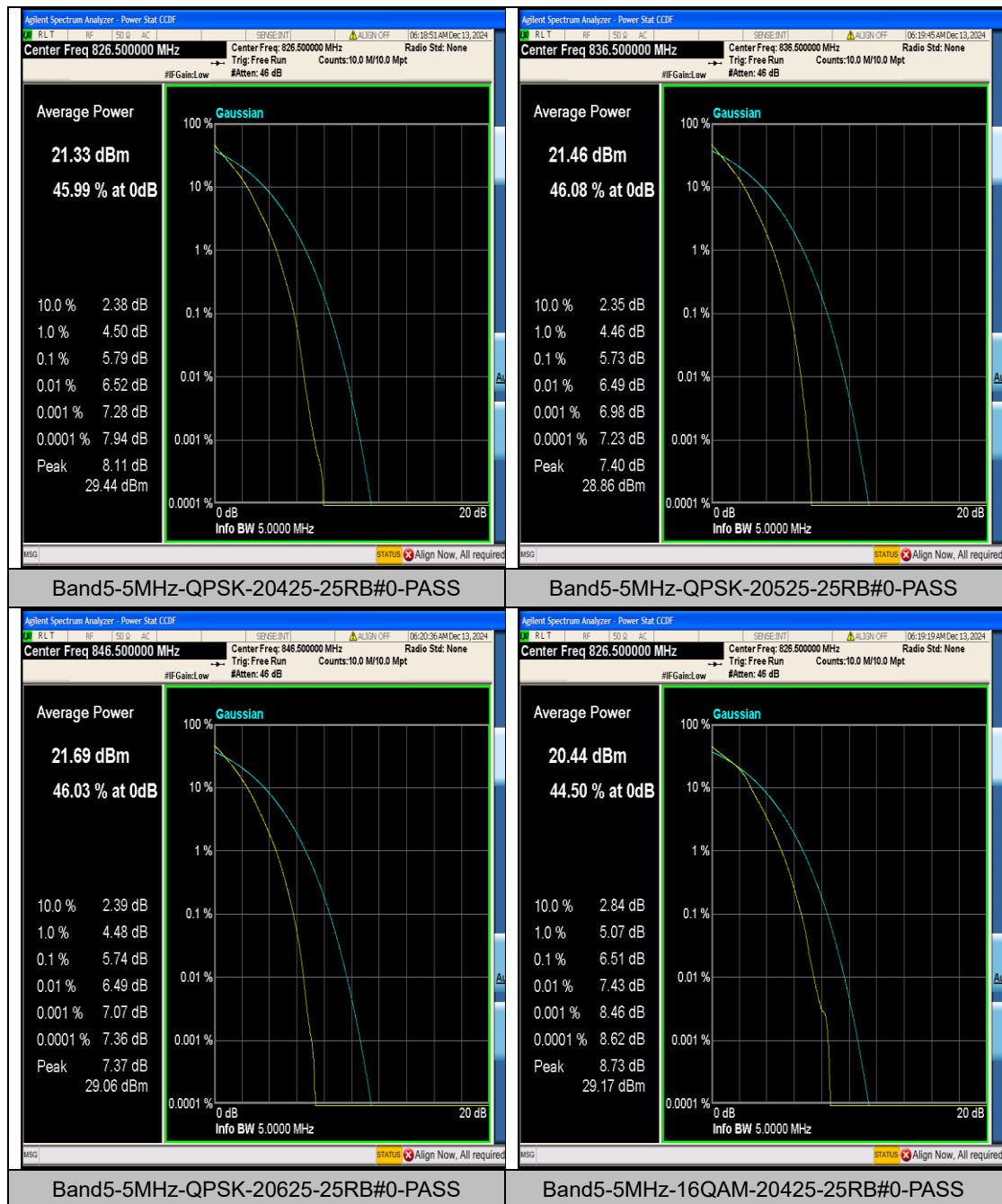
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	5.74	13	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	5.75	13	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	5.60	13	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	6.50	13	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	6.54	13	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	6.34	13	PASS
Band5	3MHz	QPSK	20415	15RB#0	5.67	13	PASS
Band5	3MHz	QPSK	20525	15RB#0	5.75	13	PASS
Band5	3MHz	QPSK	20635	15RB#0	5.76	13	PASS
Band5	3MHz	16QAM	20415	15RB#0	6.47	13	PASS
Band5	3MHz	16QAM	20525	15RB#0	6.50	13	PASS
Band5	3MHz	16QAM	20635	15RB#0	6.50	13	PASS
Band5	5MHz	QPSK	20425	25RB#0	5.79	13	PASS
Band5	5MHz	QPSK	20525	25RB#0	5.73	13	PASS
Band5	5MHz	QPSK	20625	25RB#0	5.74	13	PASS
Band5	5MHz	16QAM	20425	25RB#0	6.51	13	PASS
Band5	5MHz	16QAM	20525	25RB#0	6.41	13	PASS
Band5	5MHz	16QAM	20625	25RB#0	6.42	13	PASS
Band5	10MHz	QPSK	20450	50RB#0	5.78	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.77	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.75	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	6.42	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	6.51	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	6.52	13	PASS

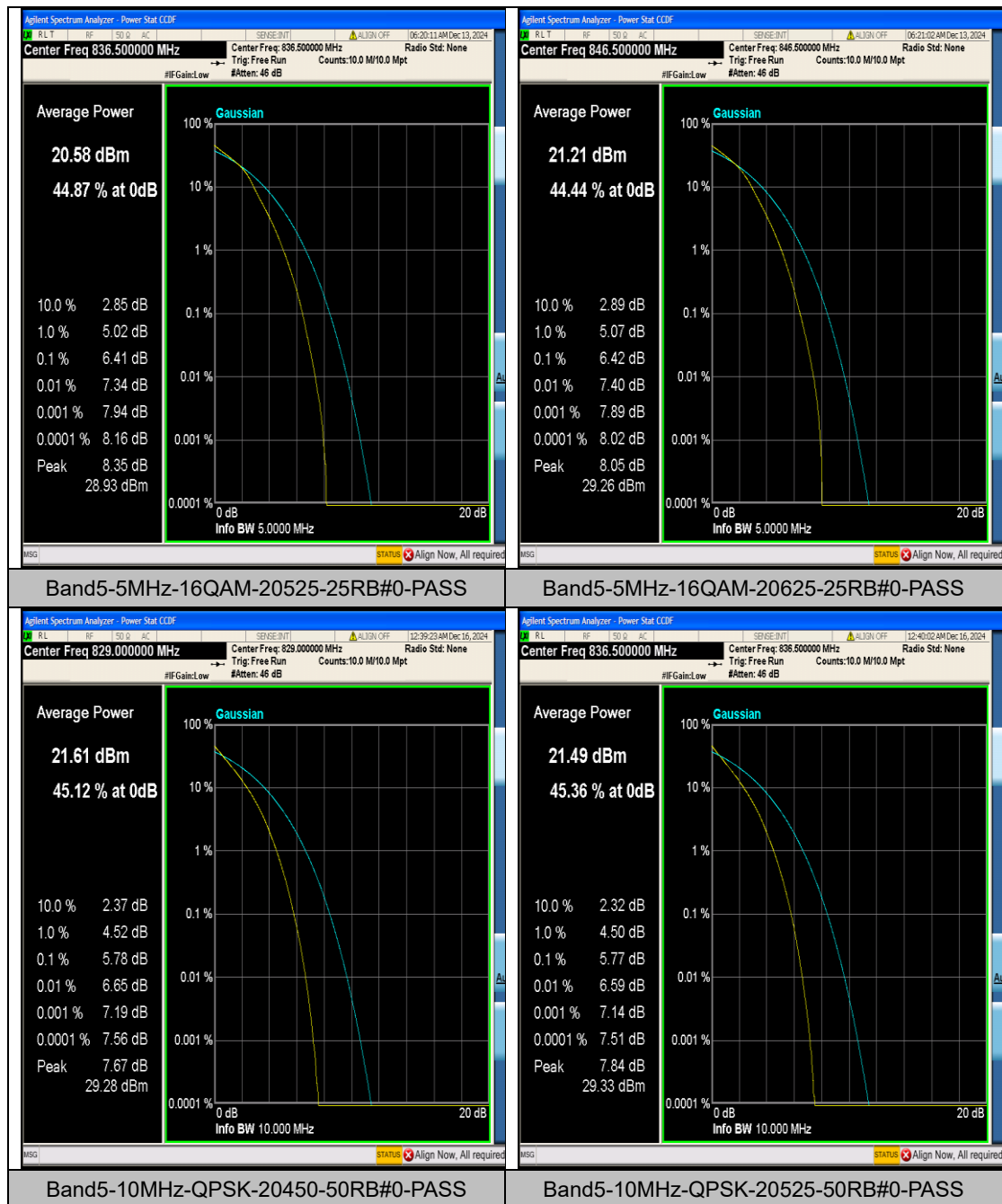
Test Graphs

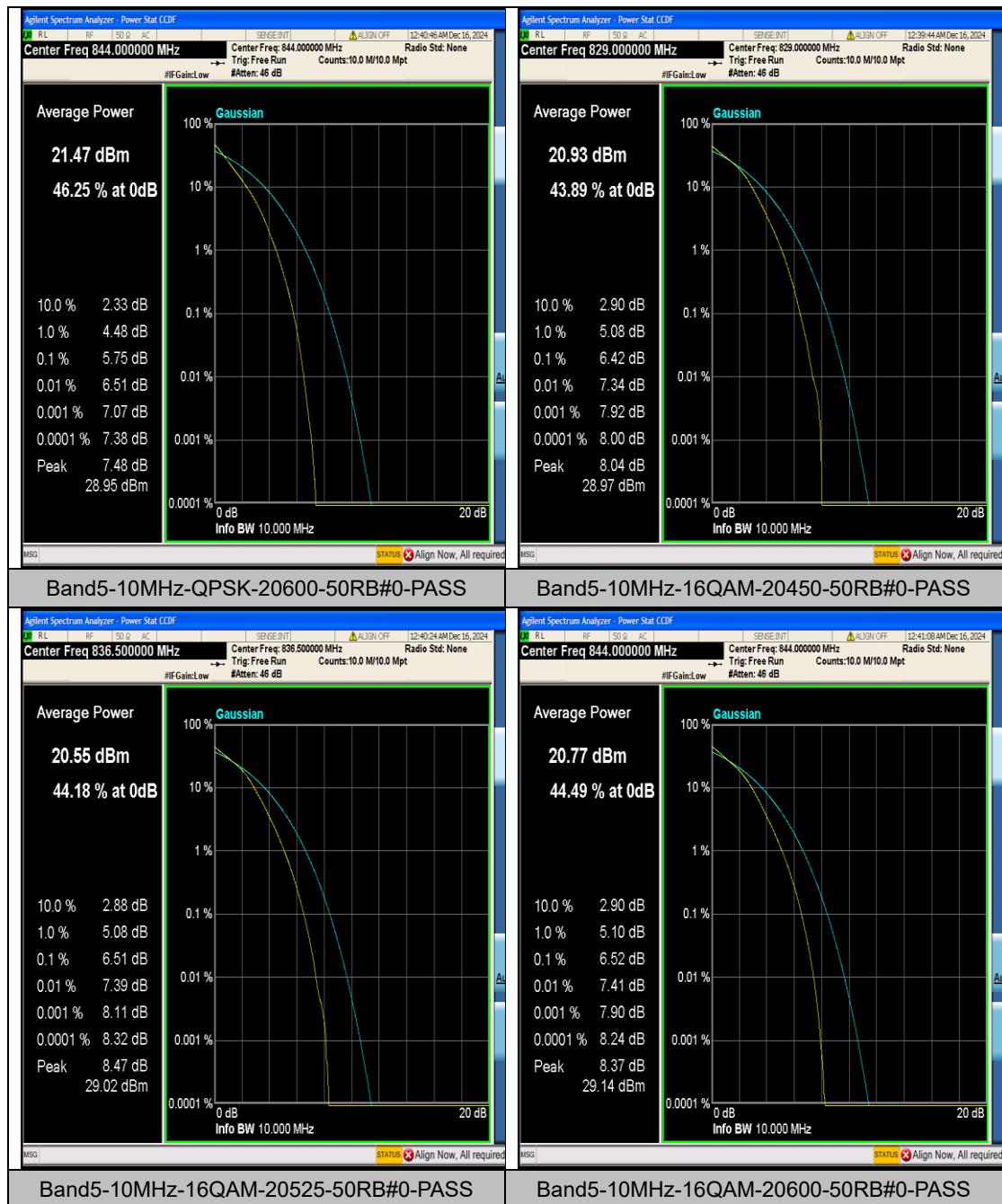










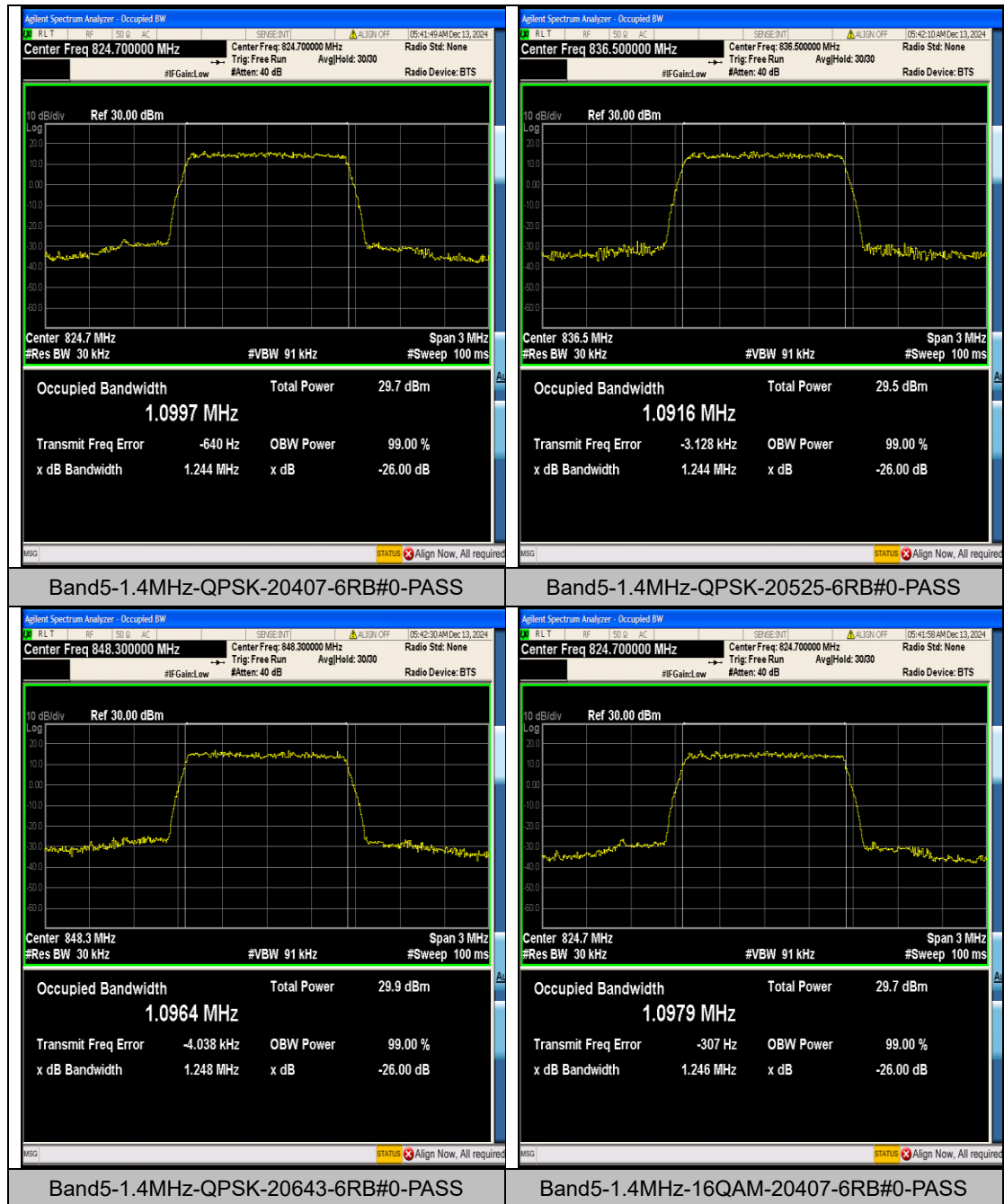


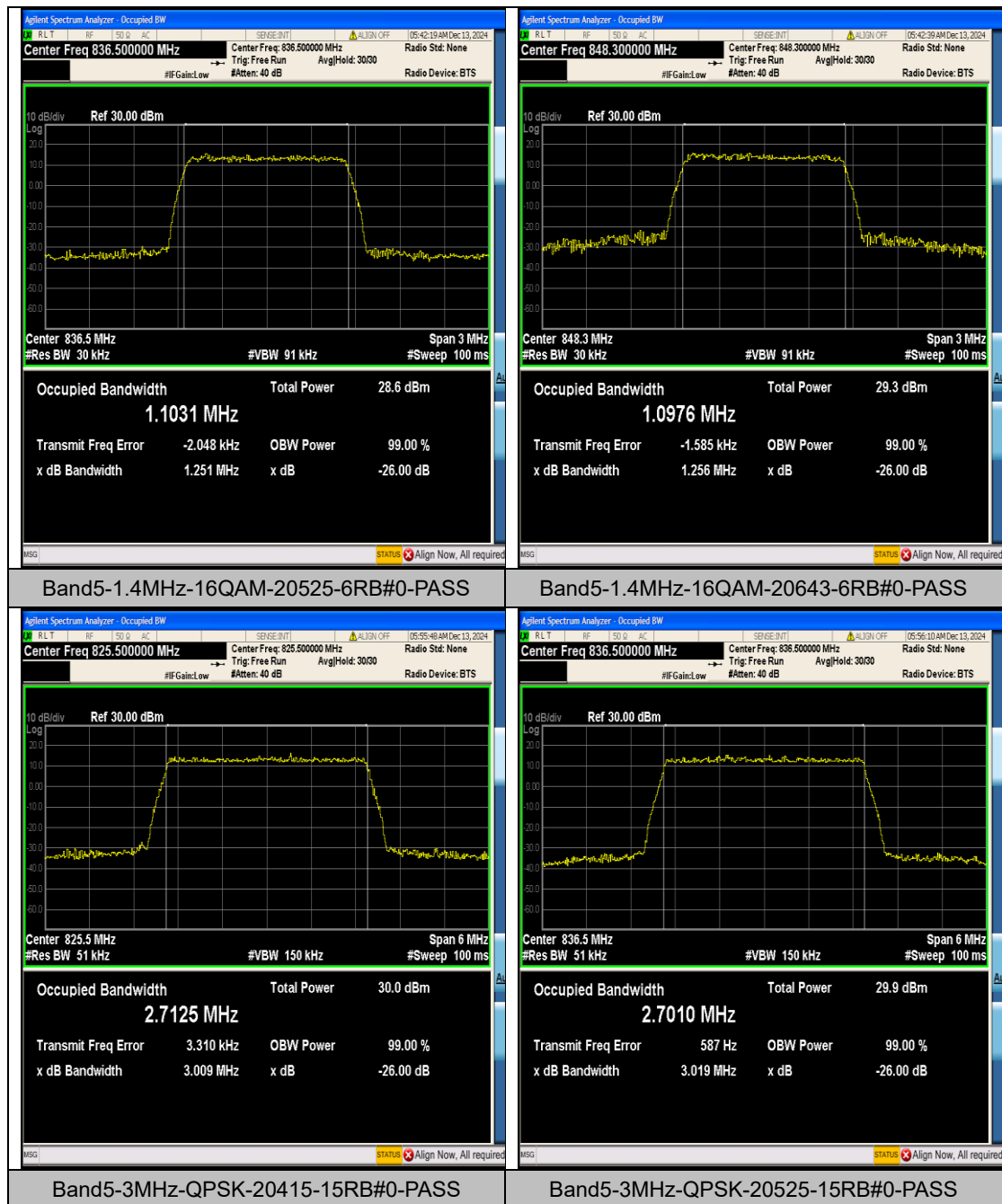
Appendix C: 26dB Bandwidth and Occupied Bandwidth

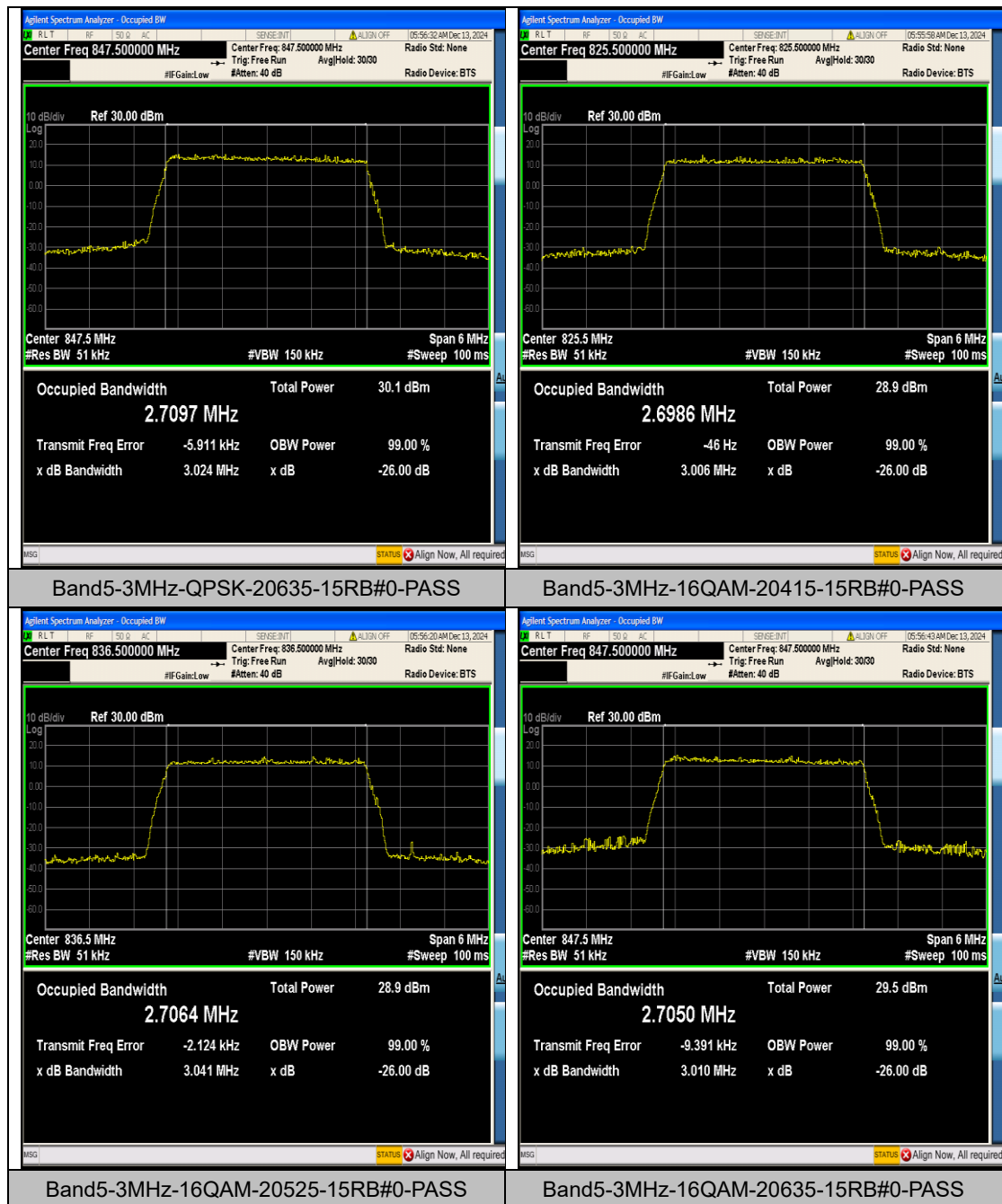
Test Result

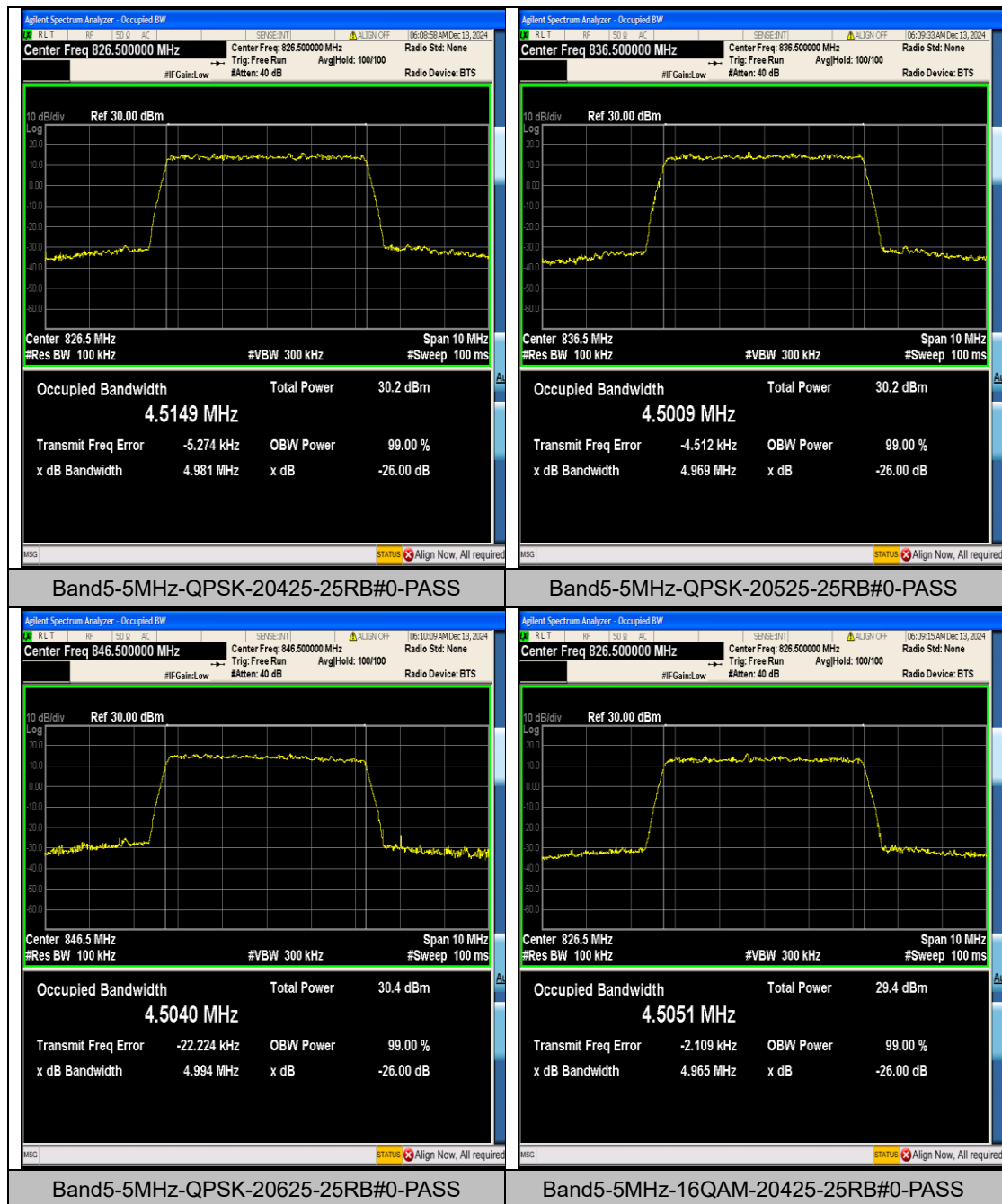
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.0997	1.244	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.0916	1.244	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.0964	1.248	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.0979	1.246	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.1031	1.251	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.0976	1.256	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.7125	3.009	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.7010	3.019	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.7097	3.024	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.6986	3.006	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.7064	3.041	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.7050	3.010	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.5149	4.981	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.5009	4.969	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.5040	4.994	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.5051	4.965	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.5061	4.974	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.5168	4.975	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.9980	9.902	PASS
Band5	10MHz	QPSK	20525	50RB#0	9.0013	9.915	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.9563	9.827	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.9962	9.915	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.9854	9.929	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.9719	9.896	PASS

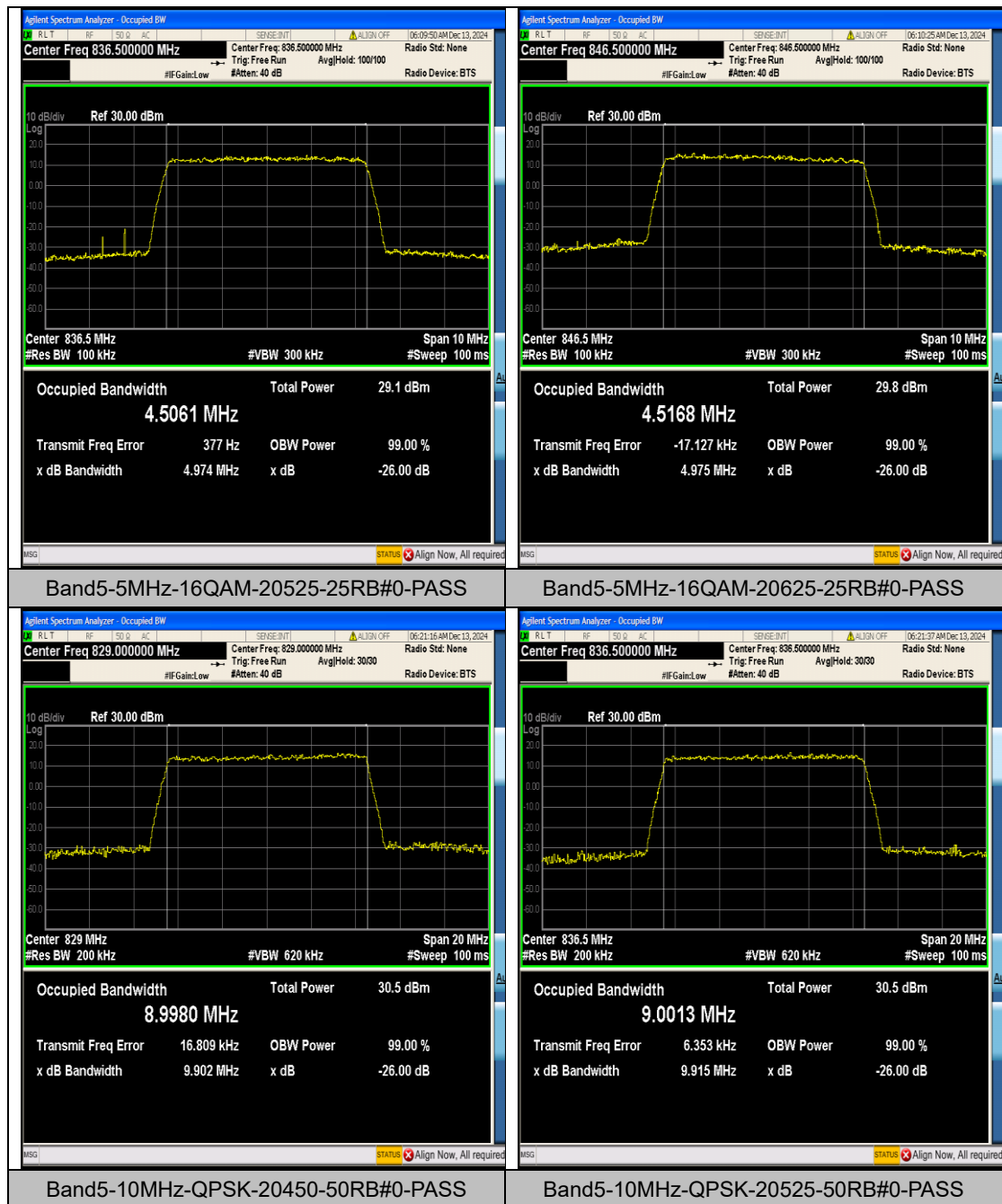
Test Graphs

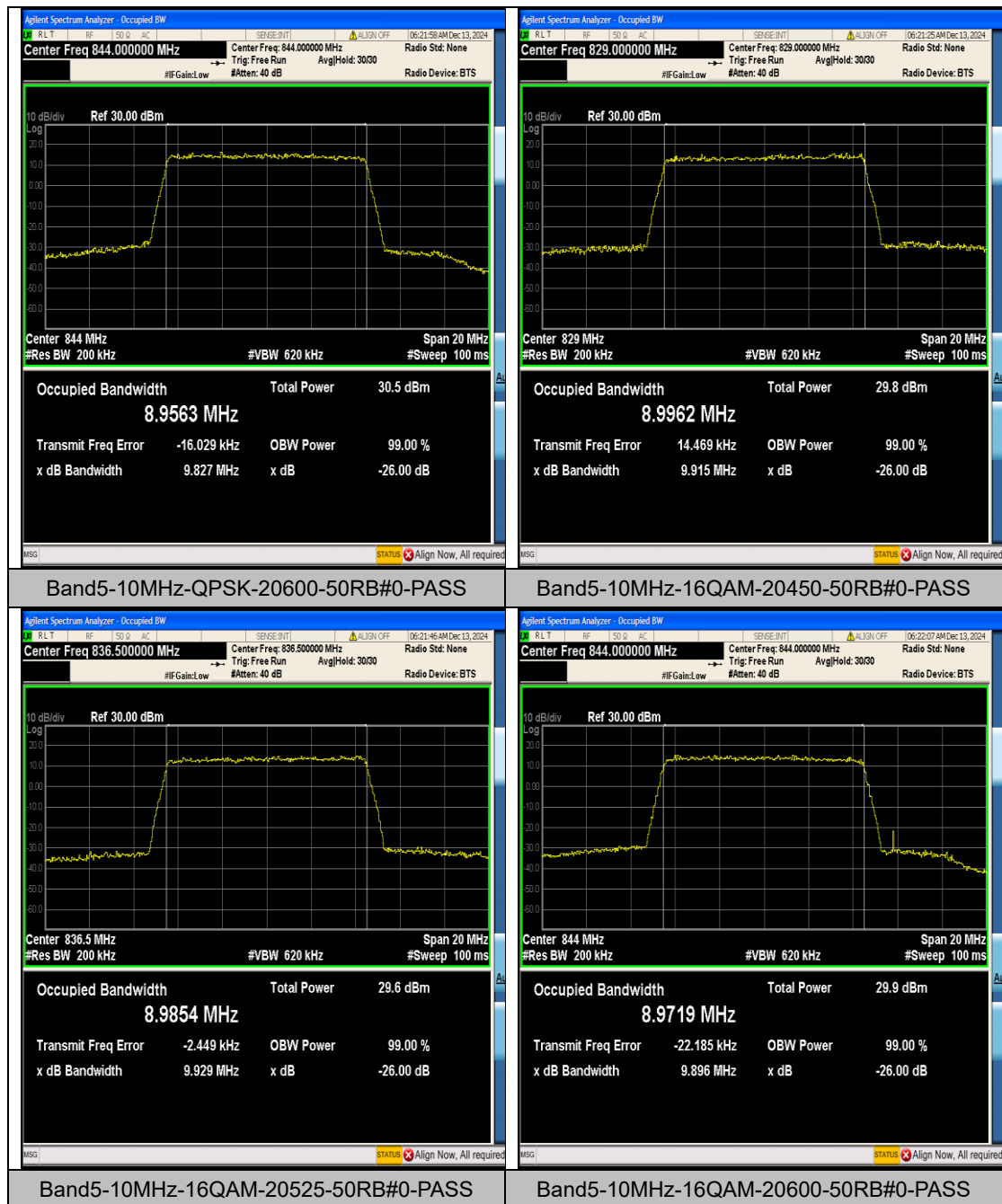










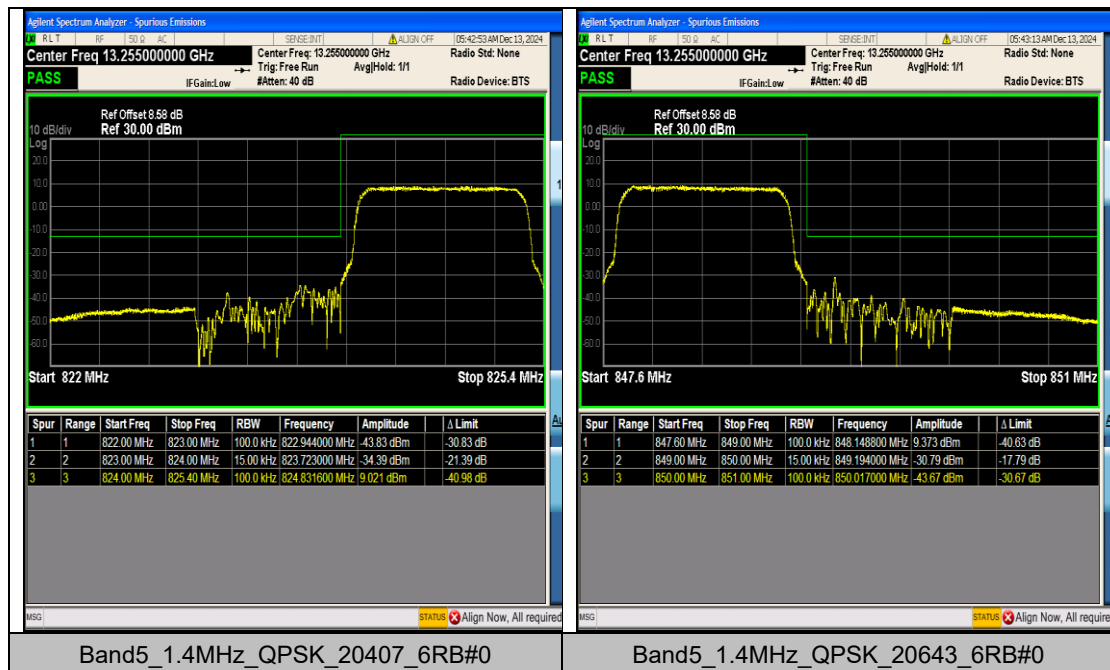


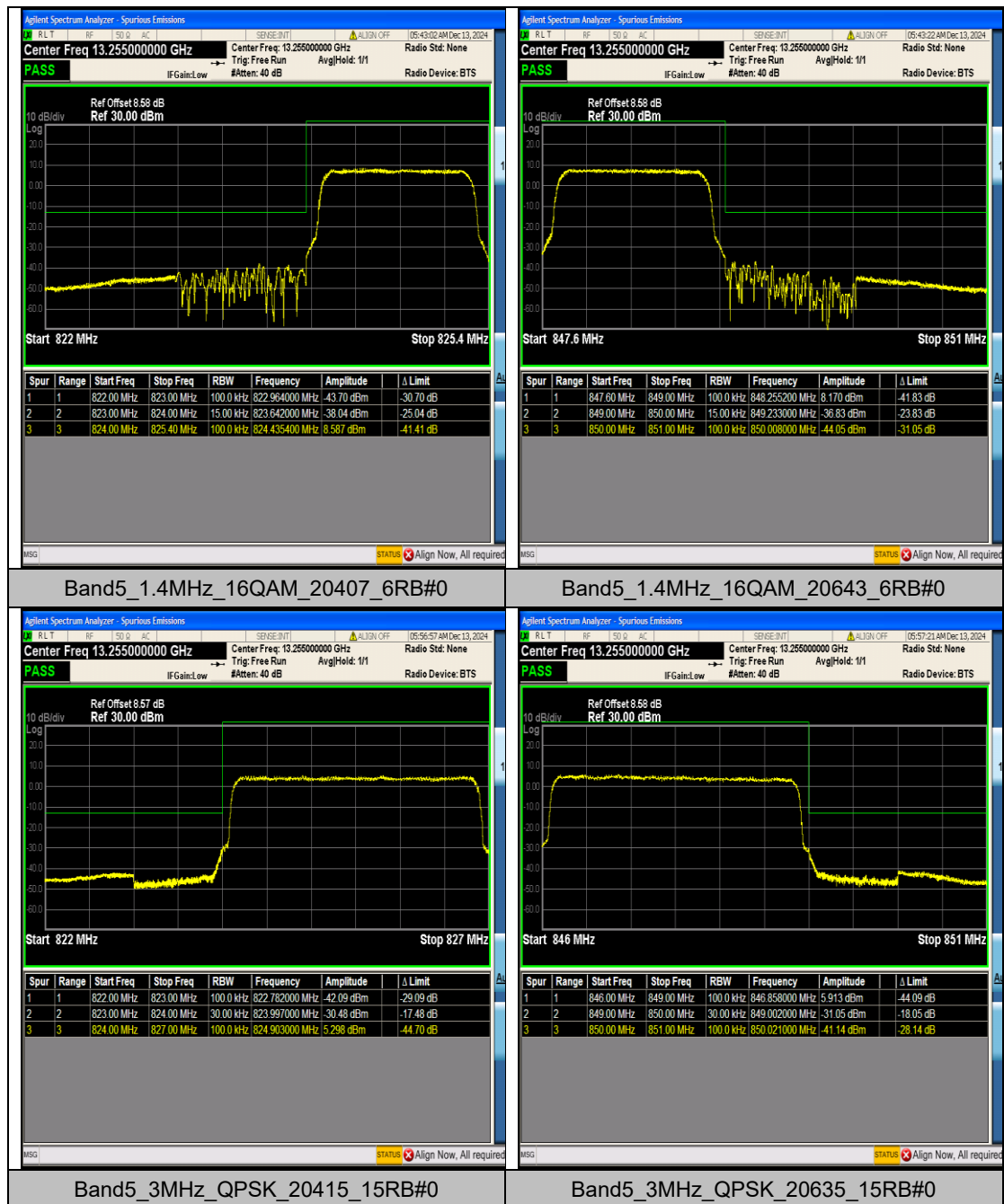
Appendix D: Band Edge

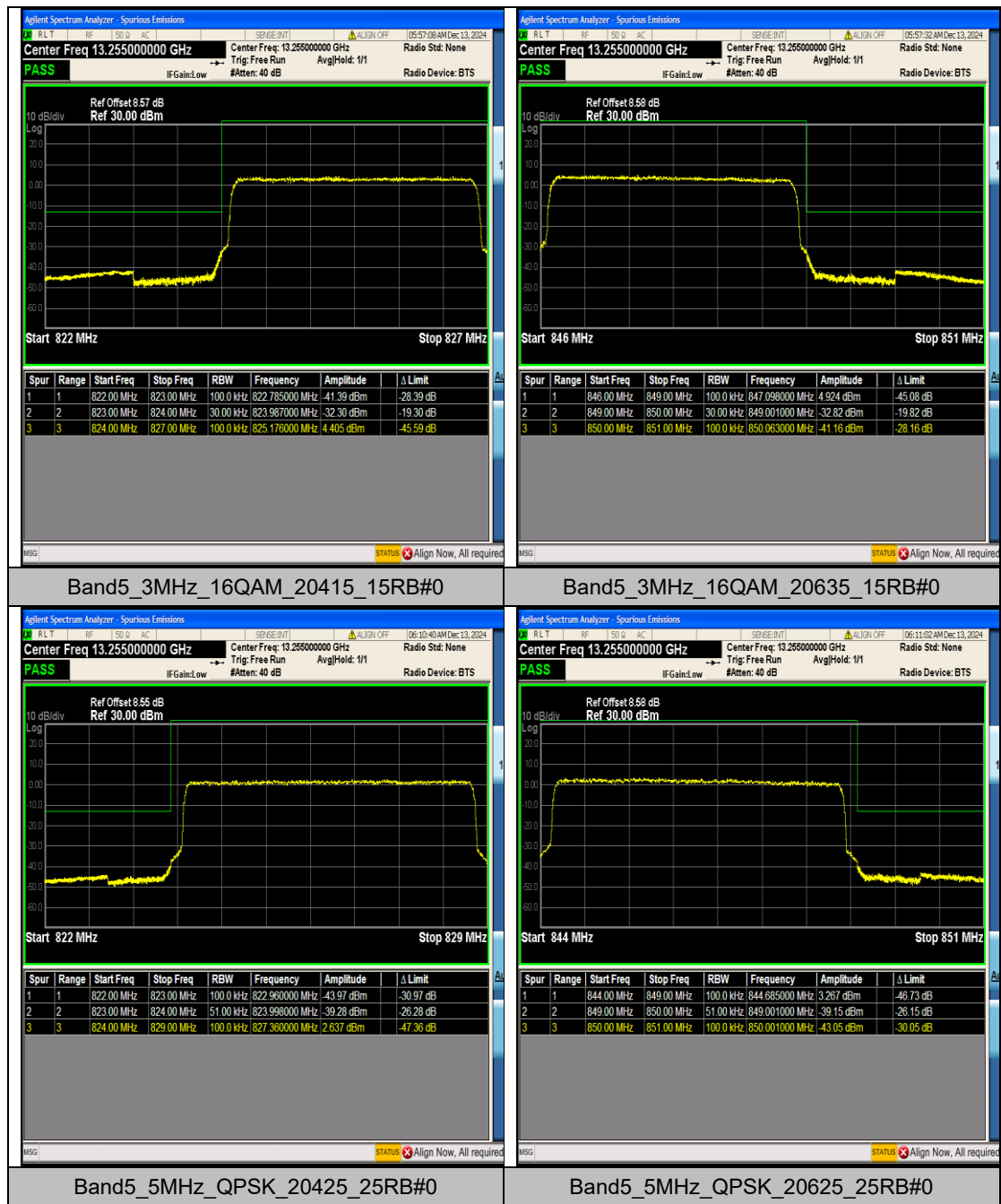
Test Result

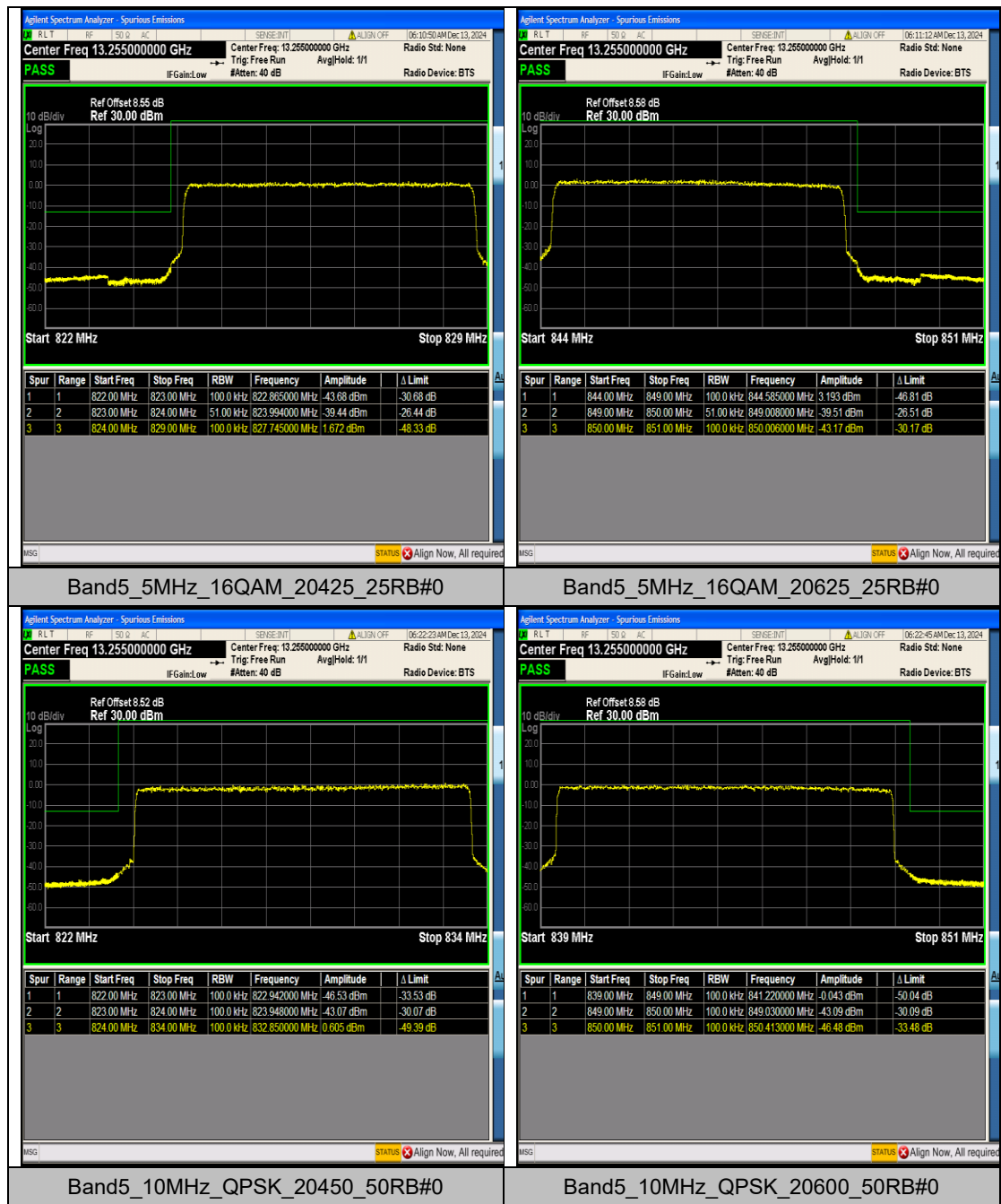
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	-34.39	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	-30.79	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	-38.04	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	-36.83	PASS
Band5	3MHz	QPSK	20415	15RB#0	-30.48	PASS
Band5	3MHz	QPSK	20635	15RB#0	-31.05	PASS
Band5	3MHz	16QAM	20415	15RB#0	-32.30	PASS
Band5	3MHz	16QAM	20635	15RB#0	-32.82	PASS
Band5	5MHz	QPSK	20425	25RB#0	-39.28	PASS
Band5	5MHz	QPSK	20625	25RB#0	-39.15	PASS
Band5	5MHz	16QAM	20425	25RB#0	-39.44	PASS
Band5	5MHz	16QAM	20625	25RB#0	-39.51	PASS
Band5	10MHz	QPSK	20450	50RB#0	-43.07	PASS
Band5	10MHz	QPSK	20600	50RB#0	-43.09	PASS
Band5	10MHz	16QAM	20450	50RB#0	-42.73	PASS
Band5	10MHz	16QAM	20600	50RB#0	-43.75	PASS

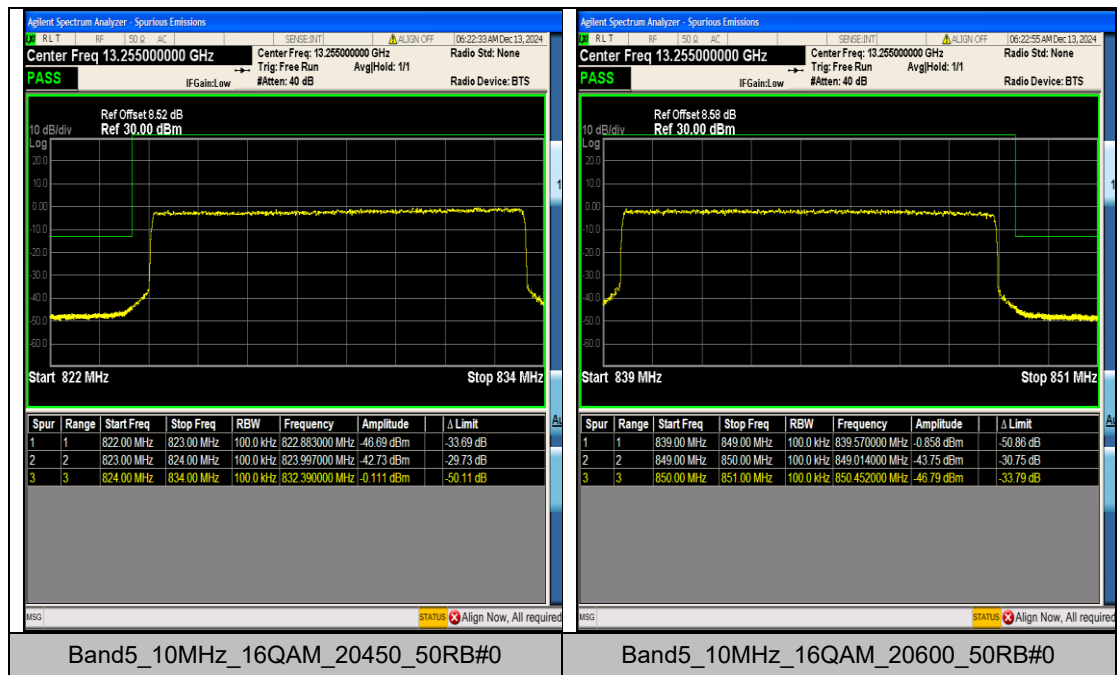
Test Graphs











Appendix E: Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	0.009~0.15	-40.22	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	0.15~30	-53.39	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	30~1000	-53.90	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	1000~3000	-46.22	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	3000~10000	-43.59	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	0.009~0.15	-41.37	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	0.15~30	-53.27	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	30~1000	-56.68	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1000~3000	-46.26	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	3000~10000	-43.16	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	0.009~0.15	-43.39	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	0.15~30	-53.07	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	30~1000	-48.67	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1000~3000	-46.28	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	3000~10000	-43.29	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	0.009~0.15	-44.34	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	0.15~30	-52.98	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	30~1000	-56.29	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1000~3000	-46.89	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	3000~10000	-43.47	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	0.009~0.15	-44.15	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	0.15~30	-53.57	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	30~1000	-58.51	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1000~3000	-47.06	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	3000~10000	-43.35	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	0.009~0.15	-38.88	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	0.15~30	-53.72	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	30~1000	-50.83	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1000~3000	-47.12	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	3000~10000	-43.57	PASS
Band5	3MHz	QPSK	20415	15RB#0	0.009~0.15	-42.81	PASS
Band5	3MHz	QPSK	20415	15RB#0	0.15~30	-55.00	PASS
Band5	3MHz	QPSK	20415	15RB#0	30~1000	-52.87	PASS
Band5	3MHz	QPSK	20415	15RB#0	1000~3000	-46.80	PASS
Band5	3MHz	QPSK	20415	15RB#0	3000~10000	-43.57	PASS
Band5	3MHz	QPSK	20525	15RB#0	0.009~0.15	-41.80	PASS

Band5	3MHz	QPSK	20525	15RB#0	0.15~30	-52.61	PASS
Band5	3MHz	QPSK	20525	15RB#0	30~1000	-55.06	PASS
Band5	3MHz	QPSK	20525	15RB#0	1000~3000	-46.96	PASS
Band5	3MHz	QPSK	20525	15RB#0	3000~10000	-43.53	PASS
Band5	3MHz	QPSK	20635	15RB#0	0.009~0.15	-41.85	PASS
Band5	3MHz	QPSK	20635	15RB#0	0.15~30	-52.73	PASS
Band5	3MHz	QPSK	20635	15RB#0	30~1000	-51.77	PASS
Band5	3MHz	QPSK	20635	15RB#0	1000~3000	-46.98	PASS
Band5	3MHz	QPSK	20635	15RB#0	3000~10000	-43.67	PASS
Band5	3MHz	16QAM	20415	15RB#0	0.009~0.15	-43.75	PASS
Band5	3MHz	16QAM	20415	15RB#0	0.15~30	-53.98	PASS
Band5	3MHz	16QAM	20415	15RB#0	30~1000	-54.63	PASS
Band5	3MHz	16QAM	20415	15RB#0	1000~3000	-46.53	PASS
Band5	3MHz	16QAM	20415	15RB#0	3000~10000	-42.79	PASS
Band5	3MHz	16QAM	20525	15RB#0	0.009~0.15	-43.82	PASS
Band5	3MHz	16QAM	20525	15RB#0	0.15~30	-52.94	PASS
Band5	3MHz	16QAM	20525	15RB#0	30~1000	-56.14	PASS
Band5	3MHz	16QAM	20525	15RB#0	1000~3000	-46.99	PASS
Band5	3MHz	16QAM	20525	15RB#0	3000~10000	-43.49	PASS
Band5	3MHz	16QAM	20635	15RB#0	0.009~0.15	-43.37	PASS
Band5	3MHz	16QAM	20635	15RB#0	0.15~30	-53.14	PASS
Band5	3MHz	16QAM	20635	15RB#0	30~1000	-52.96	PASS
Band5	3MHz	16QAM	20635	15RB#0	1000~3000	-46.59	PASS
Band5	3MHz	16QAM	20635	15RB#0	3000~10000	-43.47	PASS
Band5	5MHz	QPSK	20425	25RB#0	0.009~0.15	-44.00	PASS
Band5	5MHz	QPSK	20425	25RB#0	0.15~30	-54.20	PASS
Band5	5MHz	QPSK	20425	25RB#0	30~1000	-55.74	PASS
Band5	5MHz	QPSK	20425	25RB#0	1000~3000	-46.53	PASS
Band5	5MHz	QPSK	20425	25RB#0	3000~10000	-43.30	PASS
Band5	5MHz	QPSK	20525	25RB#0	0.009~0.15	-43.76	PASS
Band5	5MHz	QPSK	20525	25RB#0	0.15~30	-54.18	PASS
Band5	5MHz	QPSK	20525	25RB#0	30~1000	-57.59	PASS
Band5	5MHz	QPSK	20525	25RB#0	1000~3000	-47.42	PASS
Band5	5MHz	QPSK	20525	25RB#0	3000~10000	-43.62	PASS
Band5	5MHz	QPSK	20625	25RB#0	0.009~0.15	-43.57	PASS
Band5	5MHz	QPSK	20625	25RB#0	0.15~30	-51.79	PASS
Band5	5MHz	QPSK	20625	25RB#0	30~1000	-55.75	PASS
Band5	5MHz	QPSK	20625	25RB#0	1000~3000	-47.04	PASS
Band5	5MHz	QPSK	20625	25RB#0	3000~10000	-43.72	PASS
Band5	5MHz	16QAM	20425	25RB#0	0.009~0.15	-43.05	PASS
Band5	5MHz	16QAM	20425	25RB#0	0.15~30	-54.09	PASS
Band5	5MHz	16QAM	20425	25RB#0	30~1000	-55.73	PASS
Band5	5MHz	16QAM	20425	25RB#0	1000~3000	-47.28	PASS

Band5	5MHz	16QAM	20425	25RB#0	3000~10000	-43.71	PASS
Band5	5MHz	16QAM	20525	25RB#0	0.009~0.15	-42.53	PASS
Band5	5MHz	16QAM	20525	25RB#0	0.15~30	-52.73	PASS
Band5	5MHz	16QAM	20525	25RB#0	30~1000	-59.34	PASS
Band5	5MHz	16QAM	20525	25RB#0	1000~3000	-47.15	PASS
Band5	5MHz	16QAM	20525	25RB#0	3000~10000	-43.87	PASS
Band5	5MHz	16QAM	20625	25RB#0	0.009~0.15	-42.21	PASS
Band5	5MHz	16QAM	20625	25RB#0	0.15~30	-54.68	PASS
Band5	5MHz	16QAM	20625	25RB#0	30~1000	-55.33	PASS
Band5	5MHz	16QAM	20625	25RB#0	1000~3000	-47.02	PASS
Band5	5MHz	16QAM	20625	25RB#0	3000~10000	-43.59	PASS
Band5	10MHz	QPSK	20450	50RB#0	0.009~0.15	-41.82	PASS
Band5	10MHz	QPSK	20450	50RB#0	0.15~30	-56.08	PASS
Band5	10MHz	QPSK	20450	50RB#0	30~1000	-60.47	PASS
Band5	10MHz	QPSK	20450	50RB#0	1000~3000	-46.94	PASS
Band5	10MHz	QPSK	20450	50RB#0	3000~10000	-43.13	PASS
Band5	10MHz	QPSK	20525	50RB#0	0.009~0.15	-41.71	PASS
Band5	10MHz	QPSK	20525	50RB#0	0.15~30	-53.40	PASS
Band5	10MHz	QPSK	20525	50RB#0	30~1000	-58.14	PASS
Band5	10MHz	QPSK	20525	50RB#0	1000~3000	-46.78	PASS
Band5	10MHz	QPSK	20525	50RB#0	3000~10000	-43.64	PASS
Band5	10MHz	QPSK	20600	50RB#0	0.009~0.15	-44.05	PASS
Band5	10MHz	QPSK	20600	50RB#0	0.15~30	-54.30	PASS
Band5	10MHz	QPSK	20600	50RB#0	30~1000	-57.37	PASS
Band5	10MHz	QPSK	20600	50RB#0	1000~3000	-47.03	PASS
Band5	10MHz	QPSK	20600	50RB#0	3000~10000	-43.68	PASS
Band5	10MHz	16QAM	20450	50RB#0	0.009~0.15	-42.28	PASS
Band5	10MHz	16QAM	20450	50RB#0	0.15~30	-53.02	PASS
Band5	10MHz	16QAM	20450	50RB#0	30~1000	-58.30	PASS
Band5	10MHz	16QAM	20450	50RB#0	1000~3000	-46.91	PASS
Band5	10MHz	16QAM	20450	50RB#0	3000~10000	-43.58	PASS
Band5	10MHz	16QAM	20525	50RB#0	0.009~0.15	-42.32	PASS
Band5	10MHz	16QAM	20525	50RB#0	0.15~30	-54.00	PASS
Band5	10MHz	16QAM	20525	50RB#0	30~1000	-59.76	PASS
Band5	10MHz	16QAM	20525	50RB#0	1000~3000	-47.03	PASS
Band5	10MHz	16QAM	20525	50RB#0	3000~10000	-43.60	PASS
Band5	10MHz	16QAM	20600	50RB#0	0.009~0.15	-41.46	PASS
Band5	10MHz	16QAM	20600	50RB#0	0.15~30	-54.41	PASS
Band5	10MHz	16QAM	20600	50RB#0	30~1000	-59.22	PASS
Band5	10MHz	16QAM	20600	50RB#0	1000~3000	-46.82	PASS
Band5	10MHz	16QAM	20600	50RB#0	3000~10000	-43.74	PASS

Test Graphs

