

FCC LTE Band Test Data

FCC ID : 2BMDZ-Z-VOYAGE

Company: : Advanced Rugged System Co., LTD

EUT : Rugged Tablet

Model Number : Z_Voyage

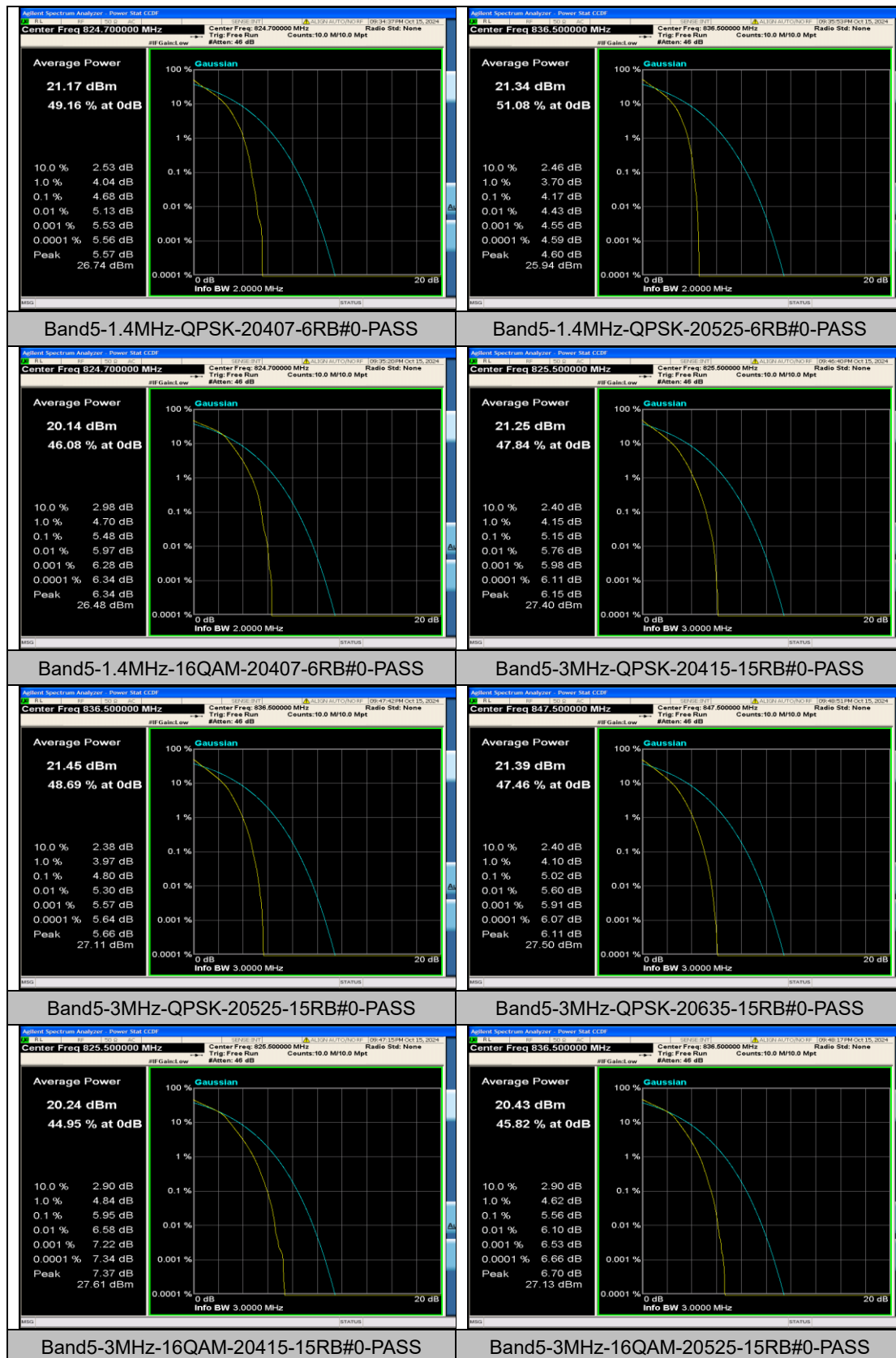
Reviewed By : Eric Wang

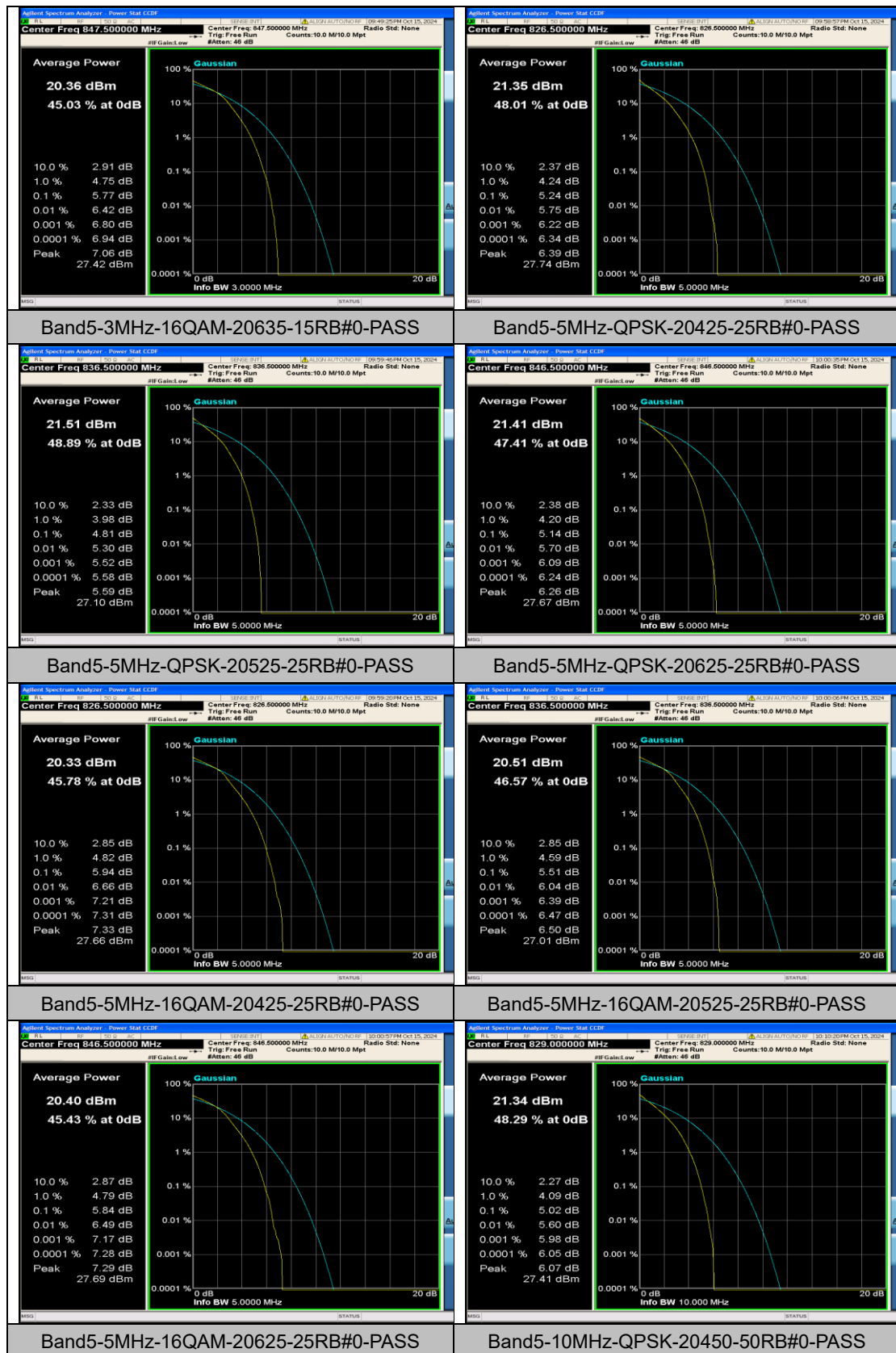
Appendix B: Peak-to-Average Ratio(CCDF)

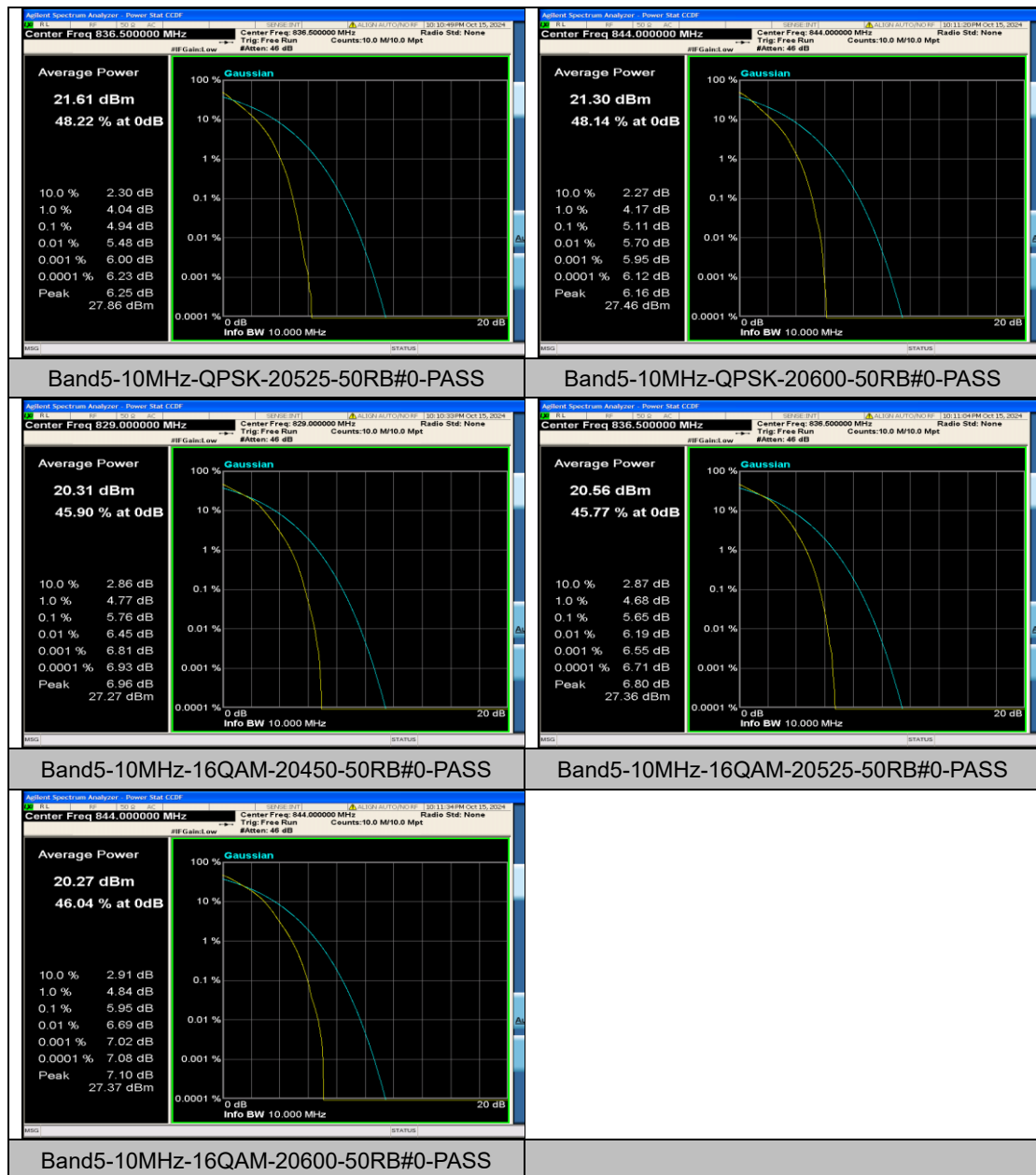
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	4.68	13	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	4.17	13	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	5.48	13	PASS
Band5	3MHz	QPSK	20415	15RB#0	5.15	13	PASS
Band5	3MHz	QPSK	20525	15RB#0	4.80	13	PASS
Band5	3MHz	QPSK	20635	15RB#0	5.02	13	PASS
Band5	3MHz	16QAM	20415	15RB#0	5.95	13	PASS
Band5	3MHz	16QAM	20525	15RB#0	5.56	13	PASS
Band5	3MHz	16QAM	20635	15RB#0	5.77	13	PASS
Band5	5MHz	QPSK	20425	25RB#0	5.24	13	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.81	13	PASS
Band5	5MHz	QPSK	20625	25RB#0	5.14	13	PASS
Band5	5MHz	16QAM	20425	25RB#0	5.94	13	PASS
Band5	5MHz	16QAM	20525	25RB#0	5.51	13	PASS
Band5	5MHz	16QAM	20625	25RB#0	5.84	13	PASS
Band5	10MHz	QPSK	20450	50RB#0	5.02	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	4.94	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.11	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	5.76	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	5.65	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	5.95	13	PASS

Test Graphs





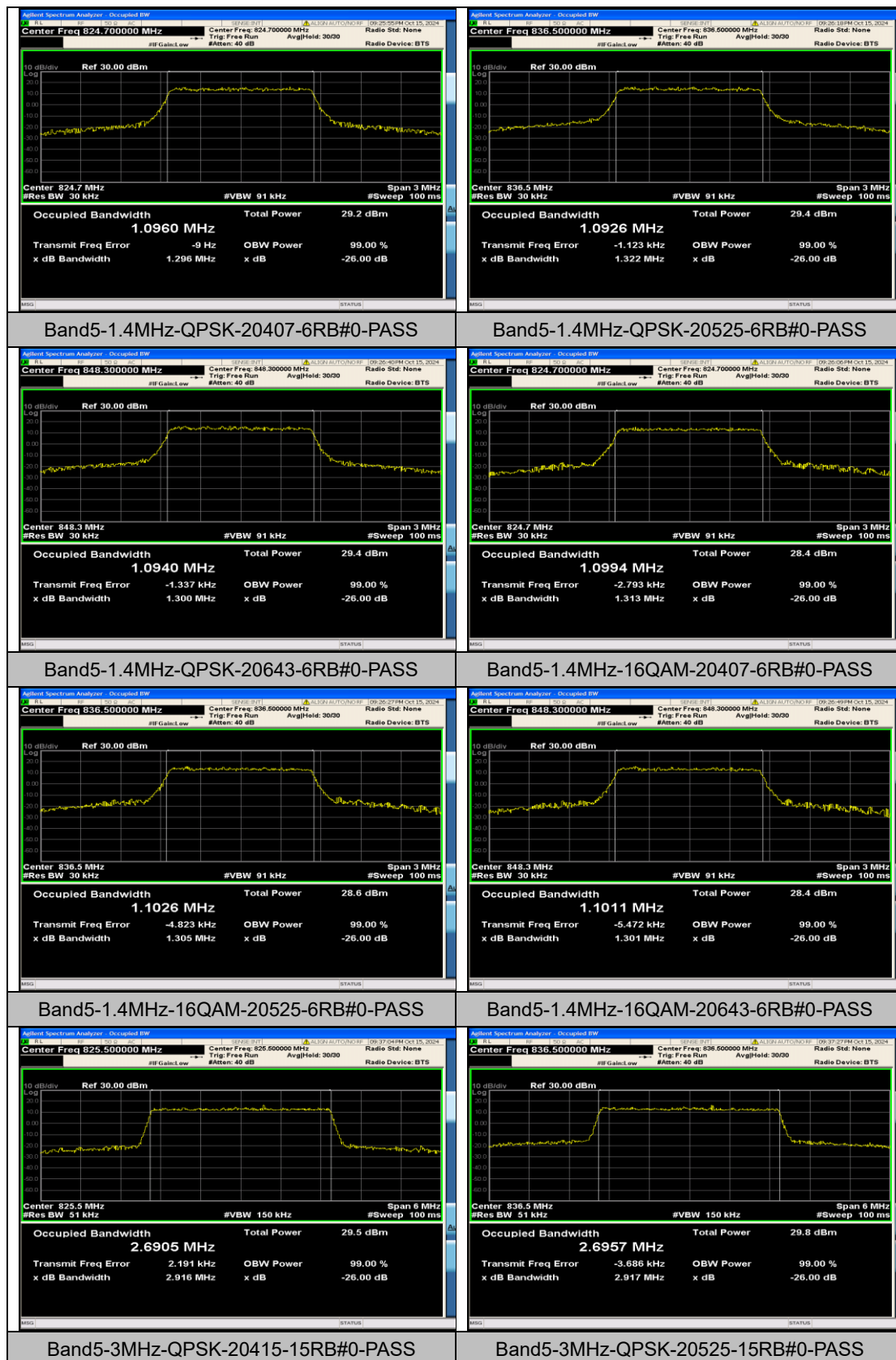


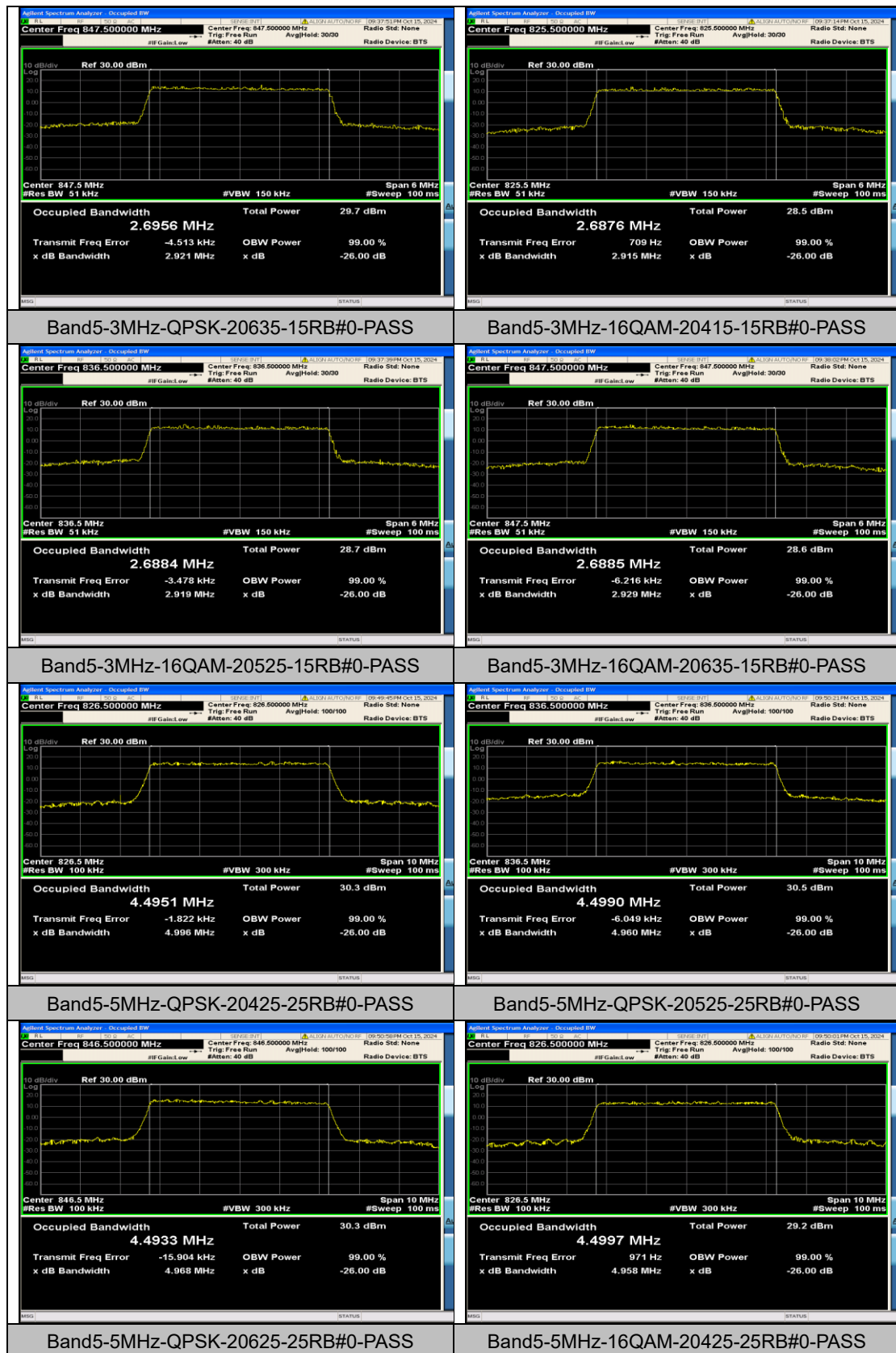
Appendix C: 26dB Bandwidth and Occupied Bandwidth

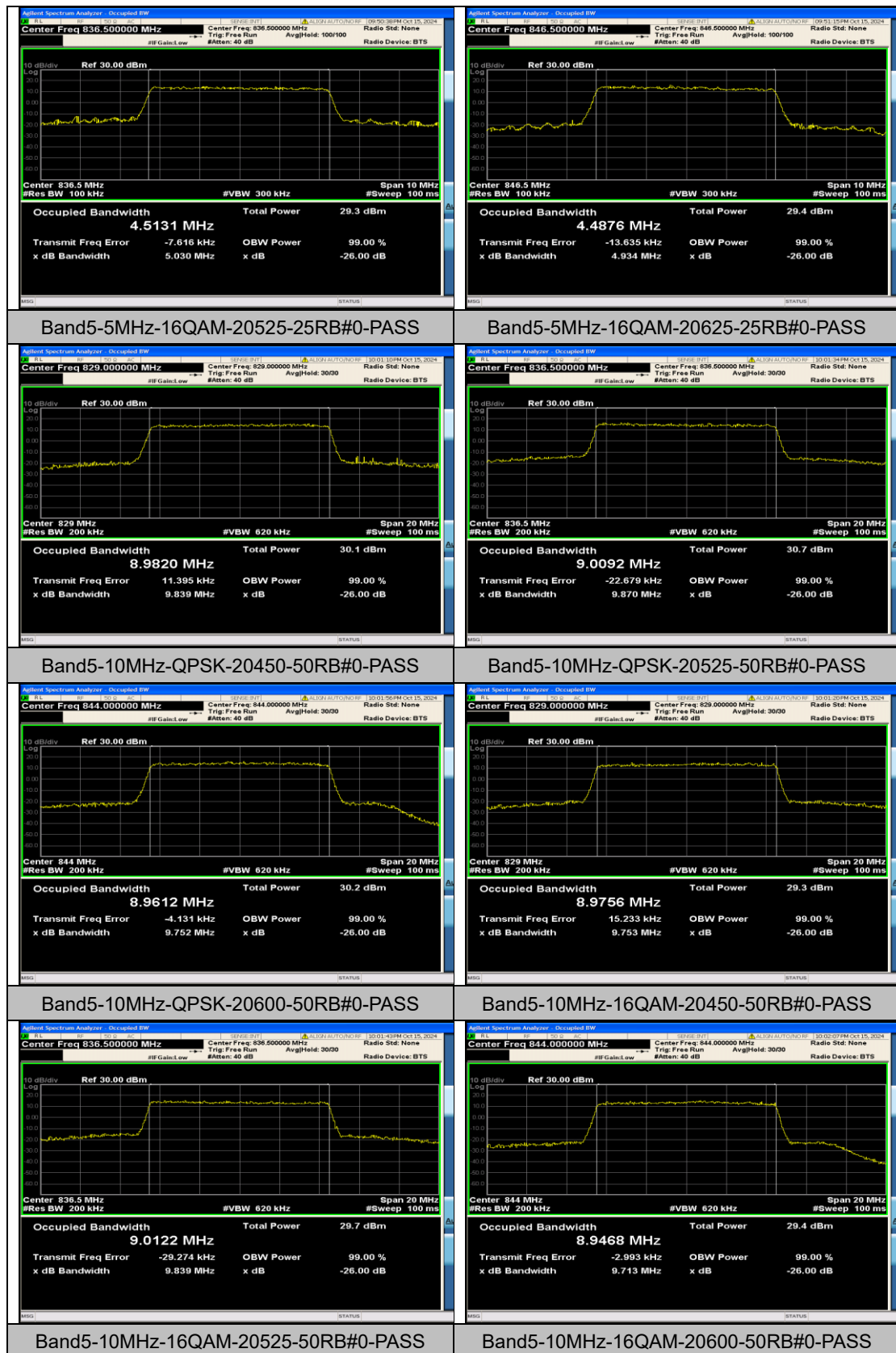
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.0960	1.296	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.0926	1.322	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.0940	1.300	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.0994	1.313	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.1026	1.305	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.1011	1.301	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.6905	2.916	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.6957	2.917	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.6956	2.921	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.6876	2.915	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.6884	2.919	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.6885	2.929	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.4951	4.996	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.4990	4.960	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.4933	4.968	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.4997	4.958	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.5131	5.030	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.4876	4.934	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.9820	9.839	PASS
Band5	10MHz	QPSK	20525	50RB#0	9.0092	9.870	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.9612	9.752	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.9756	9.753	PASS
Band5	10MHz	16QAM	20525	50RB#0	9.0122	9.839	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.9468	9.713	PASS

Test Graphs





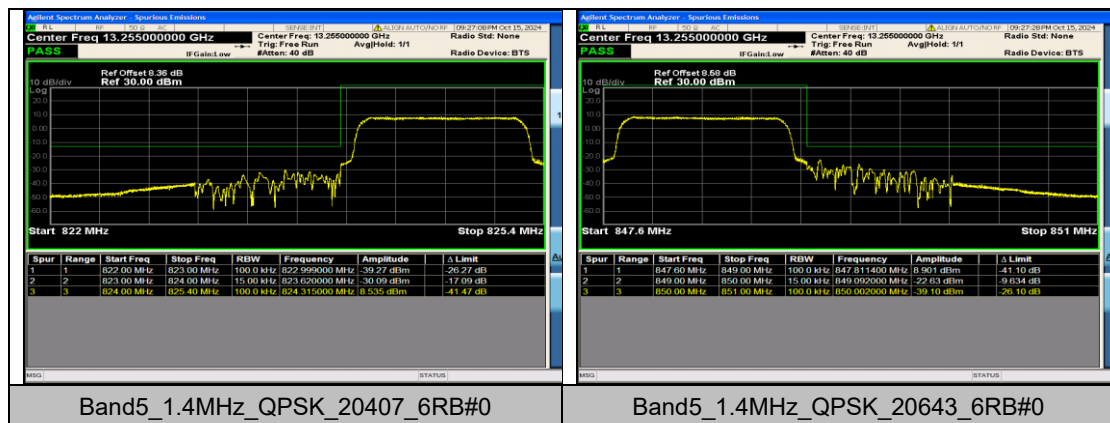


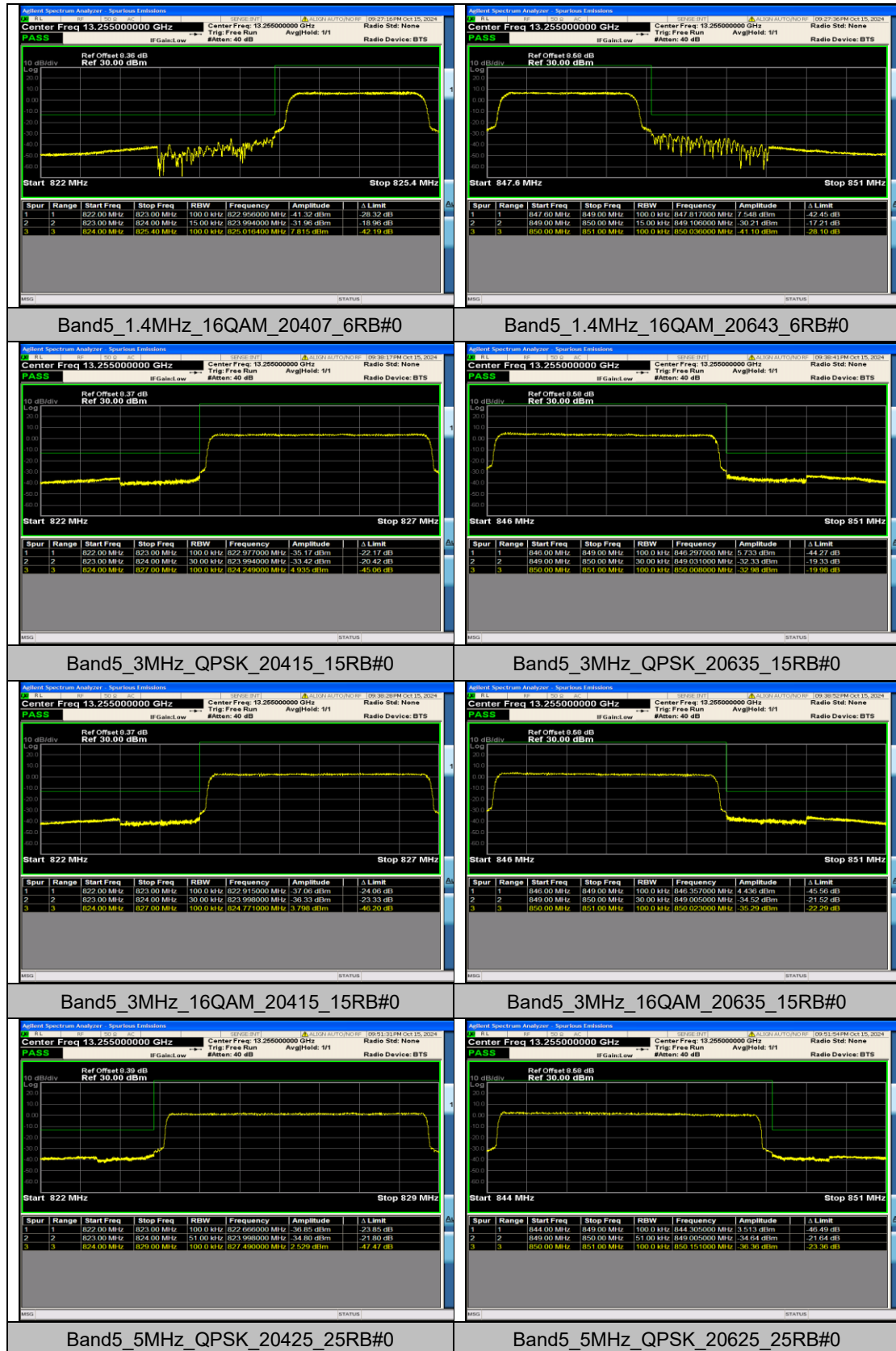
Appendix D: Band Edge

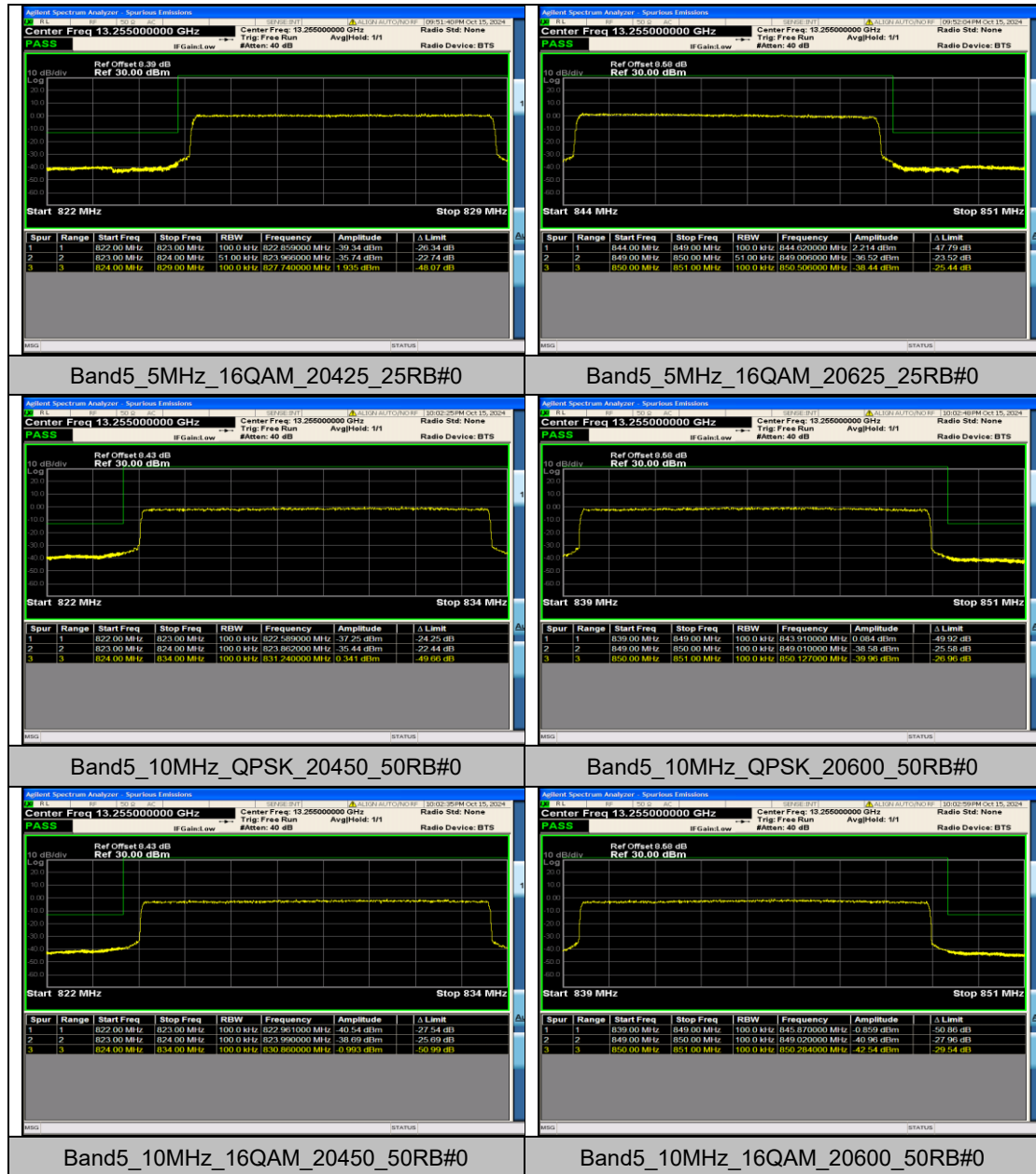
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	-30.09	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	-22.63	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	-31.96	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	-30.21	PASS
Band5	3MHz	QPSK	20415	15RB#0	-33.42	PASS
Band5	3MHz	QPSK	20635	15RB#0	-32.33	PASS
Band5	3MHz	16QAM	20415	15RB#0	-36.33	PASS
Band5	3MHz	16QAM	20635	15RB#0	-34.52	PASS
Band5	5MHz	QPSK	20425	25RB#0	-34.80	PASS
Band5	5MHz	QPSK	20625	25RB#0	-34.64	PASS
Band5	5MHz	16QAM	20425	25RB#0	-35.74	PASS
Band5	5MHz	16QAM	20625	25RB#0	-36.52	PASS
Band5	10MHz	QPSK	20450	50RB#0	-35.44	PASS
Band5	10MHz	QPSK	20600	50RB#0	-38.58	PASS
Band5	10MHz	16QAM	20450	50RB#0	-38.69	PASS
Band5	10MHz	16QAM	20600	50RB#0	-40.96	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	-48.33	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	0.15~30	-52.18	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	30~1000	-48.88	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	1000~3000	-46.98	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	3000~10000	-43.85	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	0.009~0.15	-44.99	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	0.15~30	-53.81	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	30~1000	-50.01	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1000~3000	-46.76	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	3000~10000	-43.74	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	0.009~0.15	-46.09	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	0.15~30	-54.41	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	30~1000	-48.03	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1000~3000	-46.85	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	3000~10000	-43.58	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	0.009~0.15	-46.86	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	0.15~30	-51.97	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	30~1000	-49.48	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1000~3000	-46.80	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	3000~10000	-43.60	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	0.009~0.15	-44.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	0.15~30	-52.94	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	30~1000	-51.20	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1000~3000	-43.05	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	3000~10000	-43.05	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	0.009~0.15	-45.10	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	0.15~30	-54.78	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	30~1000	-48.31	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1000~3000	-46.98	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	3000~10000	-43.82	PASS
Band5	3MHz	QPSK	20415	15RB#0	0.009~0.15	-47.99	PASS
Band5	3MHz	QPSK	20415	15RB#0	0.15~30	-52.72	PASS
Band5	3MHz	QPSK	20415	15RB#0	30~1000	-51.77	PASS
Band5	3MHz	QPSK	20415	15RB#0	1000~3000	-46.83	PASS
Band5	3MHz	QPSK	20415	15RB#0	3000~10000	-43.75	PASS
Band5	3MHz	QPSK	20525	15RB#0	0.009~0.15	-43.03	PASS

Band5	3MHz	QPSK	20525	15RB#0	0.15~30	-52.75	PASS
Band5	3MHz	QPSK	20525	15RB#0	30~1000	-50.96	PASS
Band5	3MHz	QPSK	20525	15RB#0	1000~3000	-46.90	PASS
Band5	3MHz	QPSK	20525	15RB#0	3000~10000	-43.25	PASS
Band5	3MHz	QPSK	20635	15RB#0	0.009~0.15	-48.38	PASS
Band5	3MHz	QPSK	20635	15RB#0	0.15~30	-53.26	PASS
Band5	3MHz	QPSK	20635	15RB#0	30~1000	-51.99	PASS
Band5	3MHz	QPSK	20635	15RB#0	1000~3000	-46.77	PASS
Band5	3MHz	QPSK	20635	15RB#0	3000~10000	-43.16	PASS
Band5	3MHz	16QAM	20415	15RB#0	0.009~0.15	-43.42	PASS
Band5	3MHz	16QAM	20415	15RB#0	0.15~30	-52.25	PASS
Band5	3MHz	16QAM	20415	15RB#0	30~1000	-52.97	PASS
Band5	3MHz	16QAM	20415	15RB#0	1000~3000	-46.46	PASS
Band5	3MHz	16QAM	20415	15RB#0	3000~10000	-43.33	PASS
Band5	3MHz	16QAM	20525	15RB#0	0.009~0.15	-47.60	PASS
Band5	3MHz	16QAM	20525	15RB#0	0.15~30	-52.10	PASS
Band5	3MHz	16QAM	20525	15RB#0	30~1000	-52.43	PASS
Band5	3MHz	16QAM	20525	15RB#0	1000~3000	-46.64	PASS
Band5	3MHz	16QAM	20525	15RB#0	3000~10000	-43.32	PASS
Band5	3MHz	16QAM	20635	15RB#0	0.009~0.15	-48.46	PASS
Band5	3MHz	16QAM	20635	15RB#0	0.15~30	-54.12	PASS
Band5	3MHz	16QAM	20635	15RB#0	30~1000	-52.69	PASS
Band5	3MHz	16QAM	20635	15RB#0	1000~3000	-46.76	PASS
Band5	3MHz	16QAM	20635	15RB#0	3000~10000	-43.57	PASS
Band5	5MHz	QPSK	20425	25RB#0	0.009~0.15	-48.24	PASS
Band5	5MHz	QPSK	20425	25RB#0	0.15~30	-54.35	PASS
Band5	5MHz	QPSK	20425	25RB#0	30~1000	-54.06	PASS
Band5	5MHz	QPSK	20425	25RB#0	1000~3000	-46.55	PASS
Band5	5MHz	QPSK	20425	25RB#0	3000~10000	-43.40	PASS
Band5	5MHz	QPSK	20525	25RB#0	0.009~0.15	-47.84	PASS
Band5	5MHz	QPSK	20525	25RB#0	0.15~30	-54.04	PASS
Band5	5MHz	QPSK	20525	25RB#0	30~1000	-52.16	PASS
Band5	5MHz	QPSK	20525	25RB#0	1000~3000	-46.71	PASS
Band5	5MHz	QPSK	20525	25RB#0	3000~10000	-43.79	PASS
Band5	5MHz	QPSK	20625	25RB#0	0.009~0.15	-49.16	PASS
Band5	5MHz	QPSK	20625	25RB#0	0.15~30	-53.00	PASS
Band5	5MHz	QPSK	20625	25RB#0	30~1000	-53.02	PASS
Band5	5MHz	QPSK	20625	25RB#0	1000~3000	-46.71	PASS
Band5	5MHz	QPSK	20625	25RB#0	3000~10000	-43.68	PASS
Band5	5MHz	16QAM	20425	25RB#0	0.009~0.15	-47.58	PASS
Band5	5MHz	16QAM	20425	25RB#0	0.15~30	-54.18	PASS
Band5	5MHz	16QAM	20425	25RB#0	30~1000	-54.90	PASS
Band5	5MHz	16QAM	20425	25RB#0	1000~3000	-46.65	PASS

Band5	5MHz	16QAM	20425	25RB#0	3000~10000	-43.38	PASS
Band5	5MHz	16QAM	20525	25RB#0	0.009~0.15	-48.37	PASS
Band5	5MHz	16QAM	20525	25RB#0	0.15~30	-53.96	PASS
Band5	5MHz	16QAM	20525	25RB#0	30~1000	-54.56	PASS
Band5	5MHz	16QAM	20525	25RB#0	1000~3000	-46.62	PASS
Band5	5MHz	16QAM	20525	25RB#0	3000~10000	-43.86	PASS
Band5	5MHz	16QAM	20625	25RB#0	0.009~0.15	-49.04	PASS
Band5	5MHz	16QAM	20625	25RB#0	0.15~30	-52.89	PASS
Band5	5MHz	16QAM	20625	25RB#0	30~1000	-53.82	PASS
Band5	5MHz	16QAM	20625	25RB#0	1000~3000	-46.80	PASS
Band5	5MHz	16QAM	20625	25RB#0	3000~10000	-43.47	PASS
Band5	10MHz	QPSK	20450	50RB#0	0.009~0.15	-44.98	PASS
Band5	10MHz	QPSK	20450	50RB#0	0.15~30	-53.48	PASS
Band5	10MHz	QPSK	20450	50RB#0	30~1000	-61.65	PASS
Band5	10MHz	QPSK	20450	50RB#0	1000~3000	-38.75	PASS
Band5	10MHz	QPSK	20450	50RB#0	3000~10000	-42.89	PASS
Band5	10MHz	QPSK	20525	50RB#0	0.009~0.15	-50.18	PASS
Band5	10MHz	QPSK	20525	50RB#0	0.15~30	-53.98	PASS
Band5	10MHz	QPSK	20525	50RB#0	30~1000	-56.03	PASS
Band5	10MHz	QPSK	20525	50RB#0	1000~3000	-46.53	PASS
Band5	10MHz	QPSK	20525	50RB#0	3000~10000	-43.69	PASS
Band5	10MHz	QPSK	20600	50RB#0	0.009~0.15	-48.33	PASS
Band5	10MHz	QPSK	20600	50RB#0	0.15~30	-51.98	PASS
Band5	10MHz	QPSK	20600	50RB#0	30~1000	-55.53	PASS
Band5	10MHz	QPSK	20600	50RB#0	1000~3000	-46.62	PASS
Band5	10MHz	QPSK	20600	50RB#0	3000~10000	-43.70	PASS
Band5	10MHz	16QAM	20450	50RB#0	0.009~0.15	-46.25	PASS
Band5	10MHz	16QAM	20450	50RB#0	0.15~30	-54.37	PASS
Band5	10MHz	16QAM	20450	50RB#0	30~1000	-61.85	PASS
Band5	10MHz	16QAM	20450	50RB#0	1000~3000	-46.81	PASS
Band5	10MHz	16QAM	20450	50RB#0	3000~10000	-43.31	PASS
Band5	10MHz	16QAM	20525	50RB#0	0.009~0.15	-45.48	PASS
Band5	10MHz	16QAM	20525	50RB#0	0.15~30	-53.76	PASS
Band5	10MHz	16QAM	20525	50RB#0	30~1000	-56.81	PASS
Band5	10MHz	16QAM	20525	50RB#0	1000~3000	-46.50	PASS
Band5	10MHz	16QAM	20525	50RB#0	3000~10000	-43.49	PASS
Band5	10MHz	16QAM	20600	50RB#0	0.009~0.15	-47.79	PASS
Band5	10MHz	16QAM	20600	50RB#0	0.15~30	-53.20	PASS
Band5	10MHz	16QAM	20600	50RB#0	30~1000	-57.56	PASS
Band5	10MHz	16QAM	20600	50RB#0	1000~3000	-46.82	PASS
Band5	10MHz	16QAM	20600	50RB#0	3000~10000	-43.75	PASS

Test Graphs

