

FCC Appendix RF Test Data for LTE Band 5

Company: : Yulong Computer Telecommunication Scientific
(Shenzhen) Co., Ltd

EUT : Smart Phone

Model Number : K21

FCC ID : R38YLCPK21

Report No. : CTA25091901805

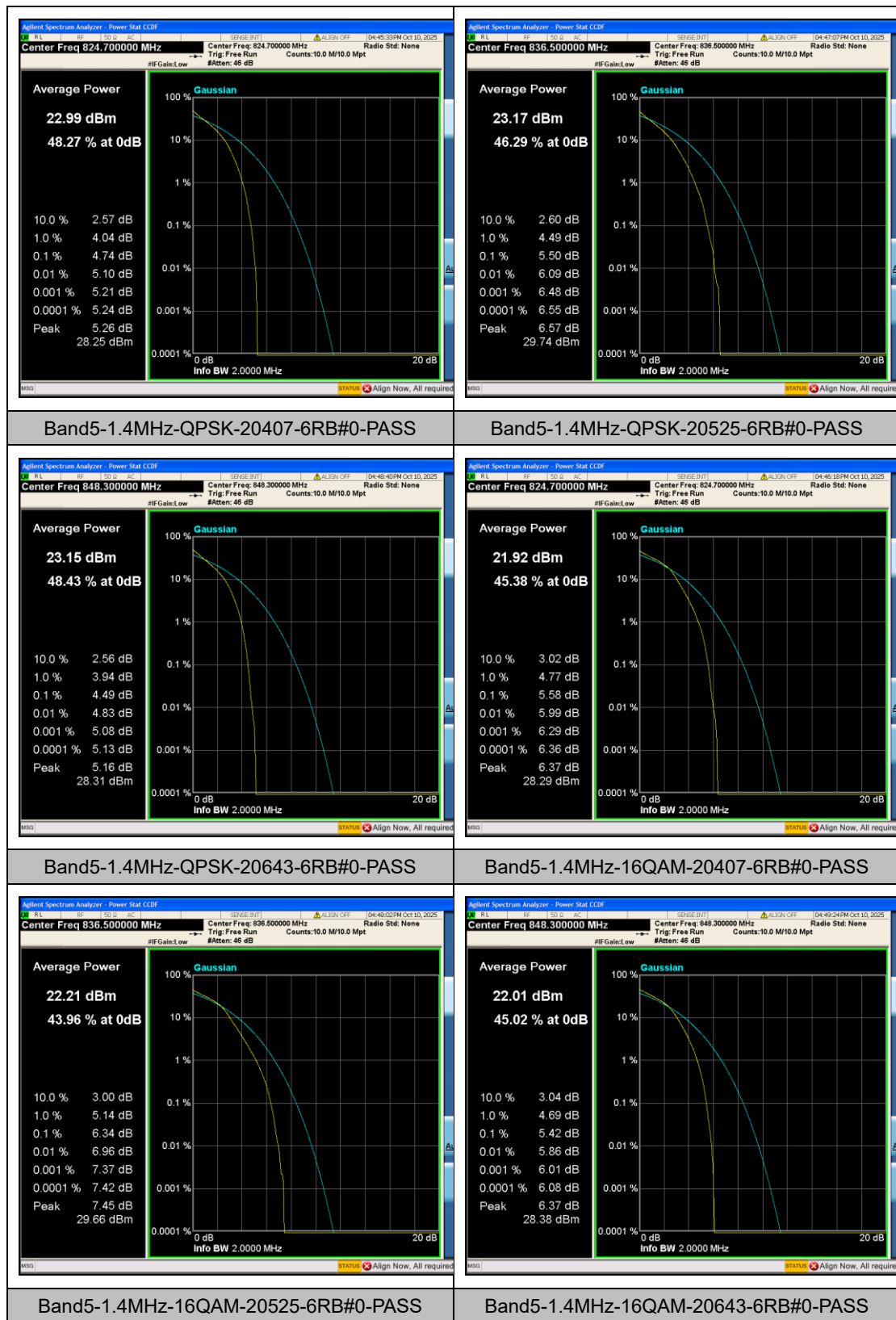
Reviewed By : Eric Wang

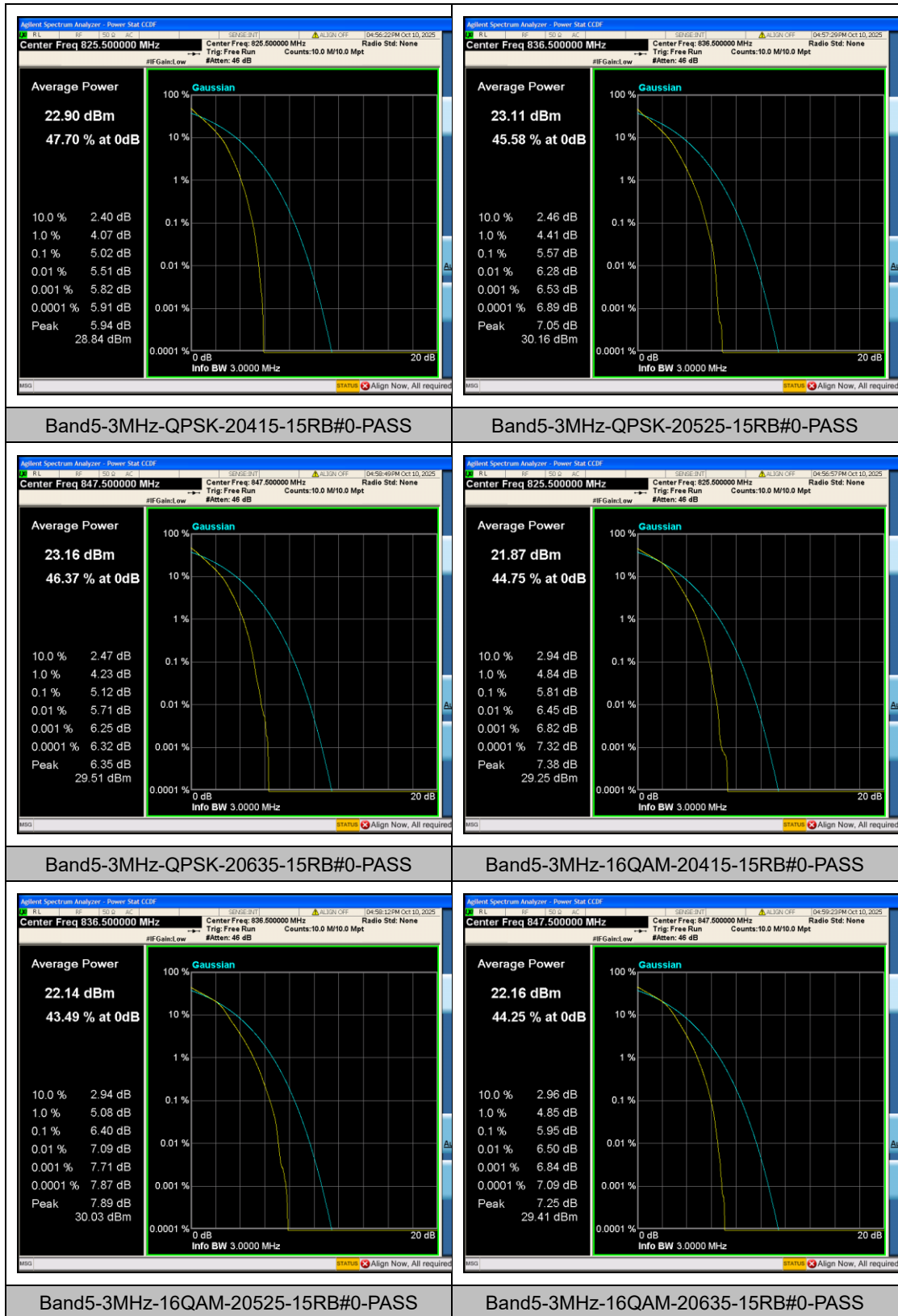
Appendix B: Peak-to-Average Ratio(CCDF)

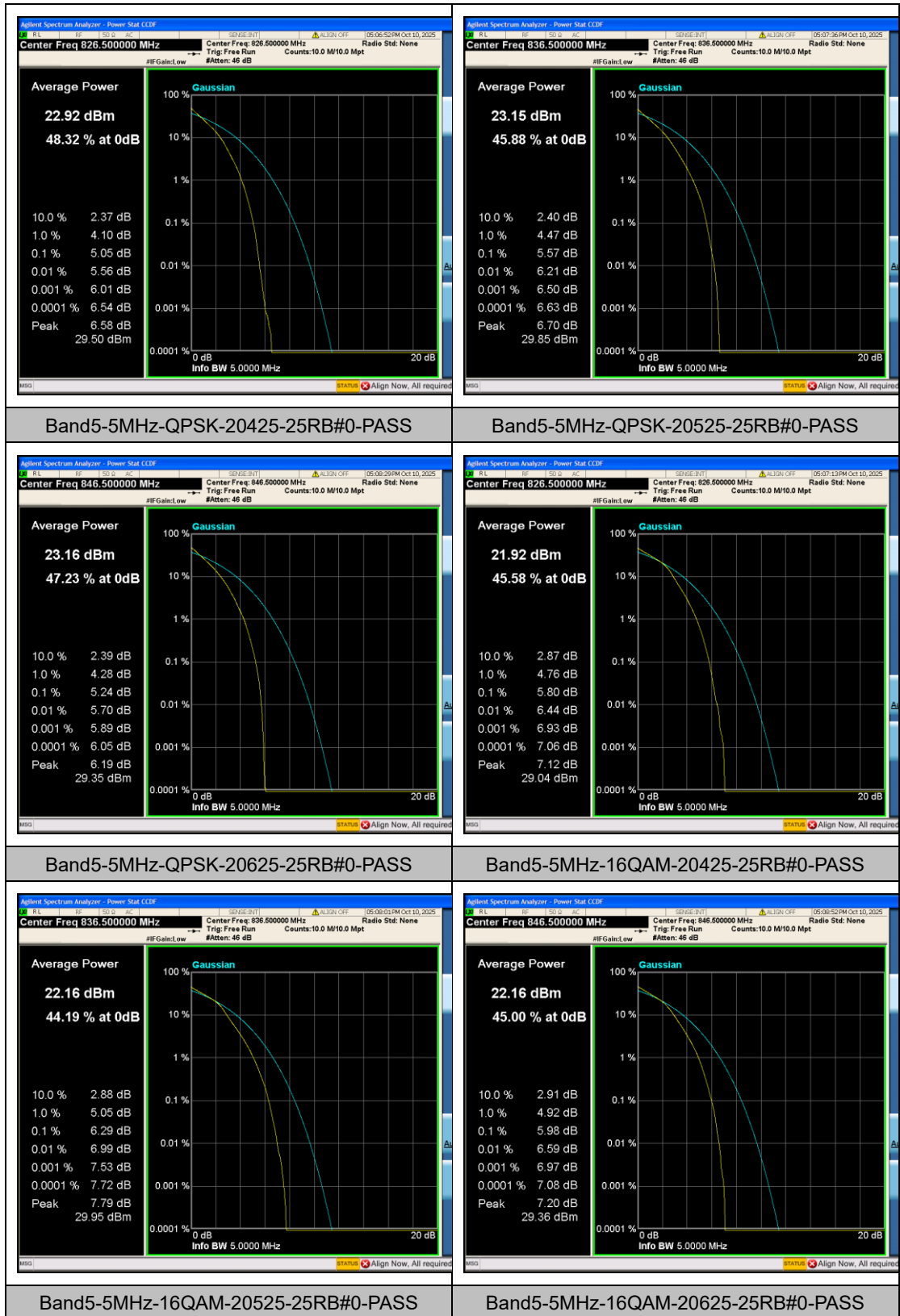
Test Result

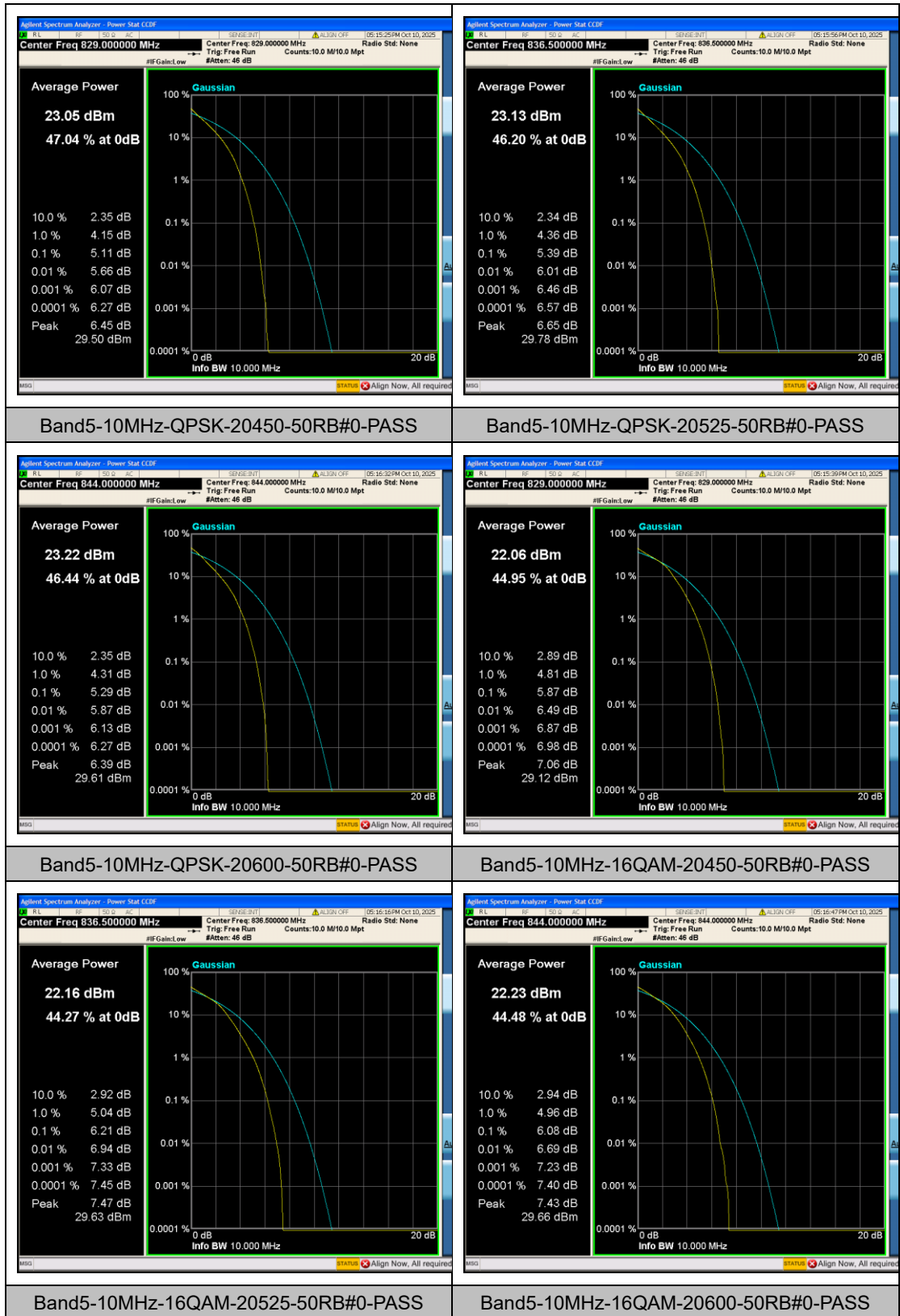
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	4.74	13	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	5.50	13	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	4.49	13	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	5.58	13	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	6.34	13	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	5.42	13	PASS
Band5	3MHz	QPSK	20415	15RB#0	5.02	13	PASS
Band5	3MHz	QPSK	20525	15RB#0	5.57	13	PASS
Band5	3MHz	QPSK	20635	15RB#0	5.12	13	PASS
Band5	3MHz	16QAM	20415	15RB#0	5.81	13	PASS
Band5	3MHz	16QAM	20525	15RB#0	6.40	13	PASS
Band5	3MHz	16QAM	20635	15RB#0	5.95	13	PASS
Band5	5MHz	QPSK	20425	25RB#0	5.05	13	PASS
Band5	5MHz	QPSK	20525	25RB#0	5.57	13	PASS
Band5	5MHz	QPSK	20625	25RB#0	5.24	13	PASS
Band5	5MHz	16QAM	20425	25RB#0	5.80	13	PASS
Band5	5MHz	16QAM	20525	25RB#0	6.29	13	PASS
Band5	5MHz	16QAM	20625	25RB#0	5.98	13	PASS
Band5	10MHz	QPSK	20450	50RB#0	5.11	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.39	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.29	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	5.87	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	6.21	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	6.08	13	PASS

Test Graphs







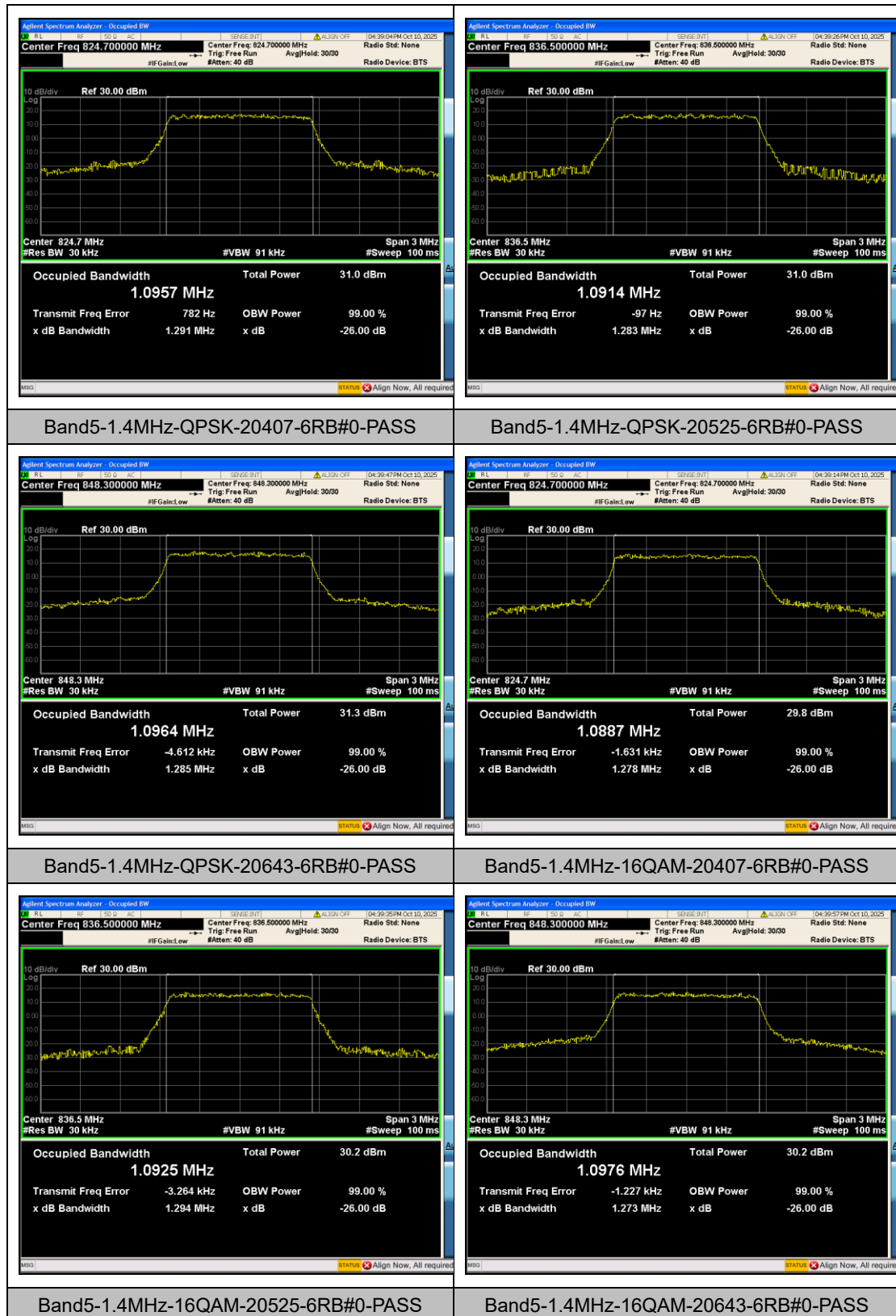


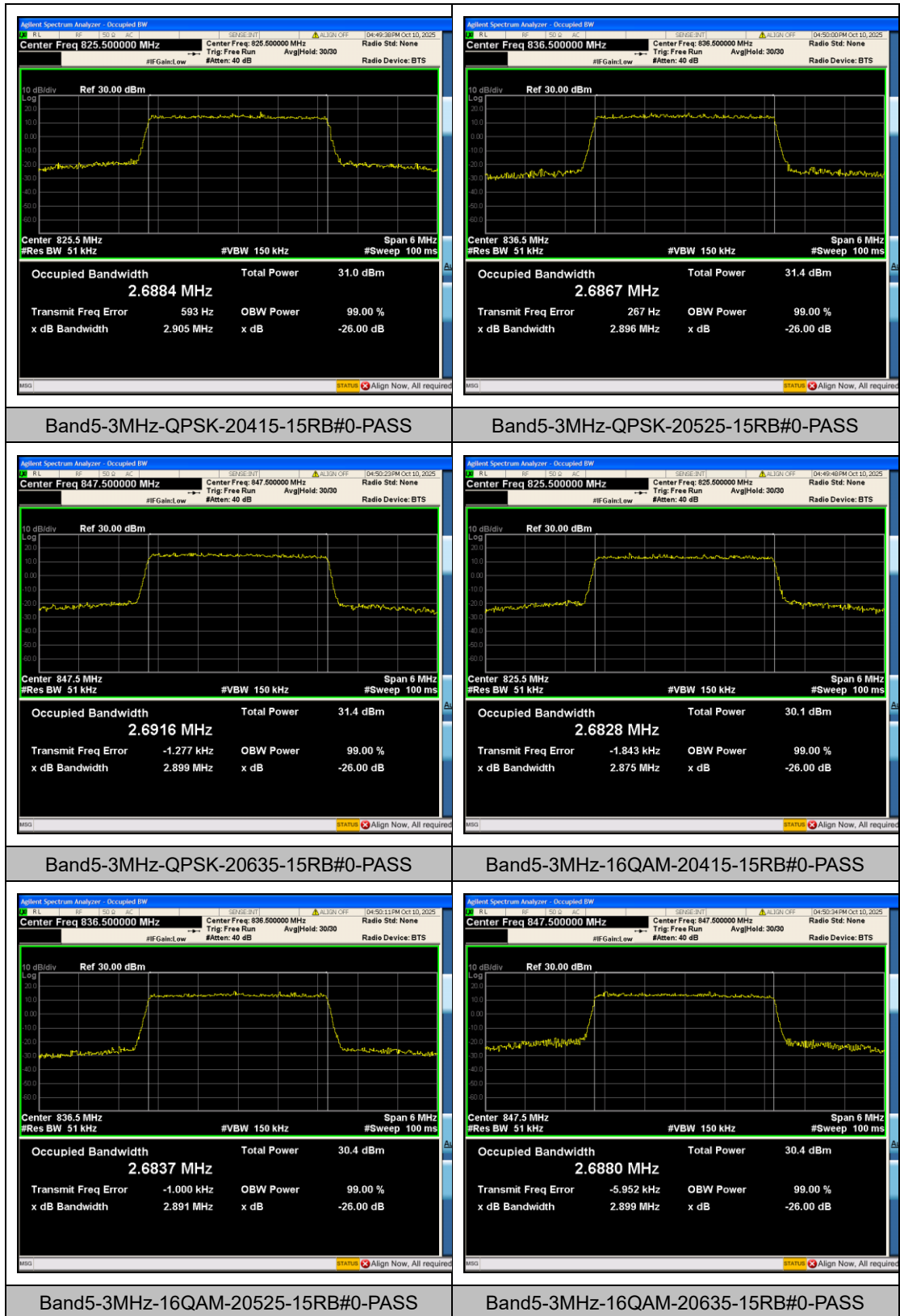
Appendix C: 26dB Bandwidth and Occupied Bandwidth

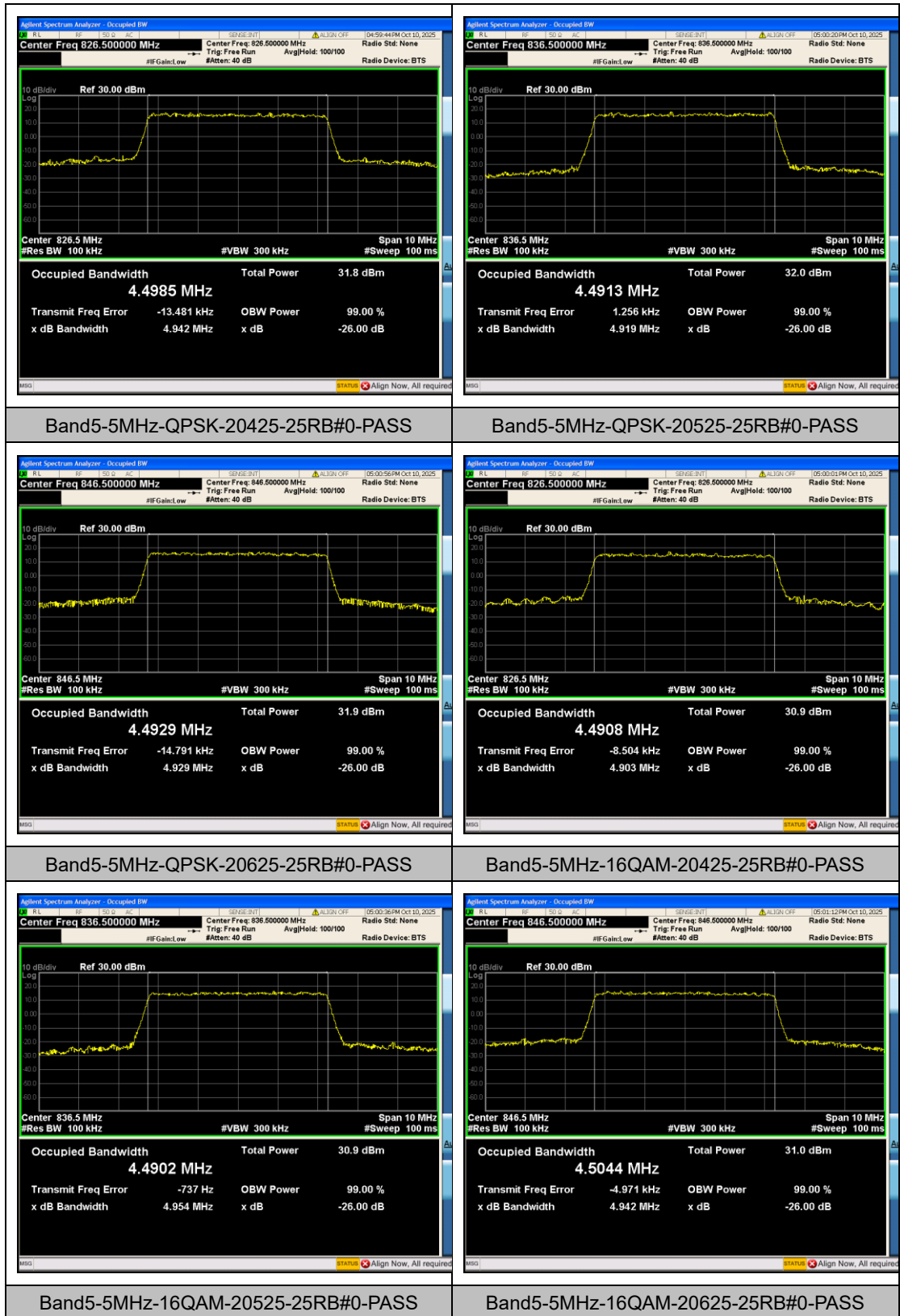
Test Result

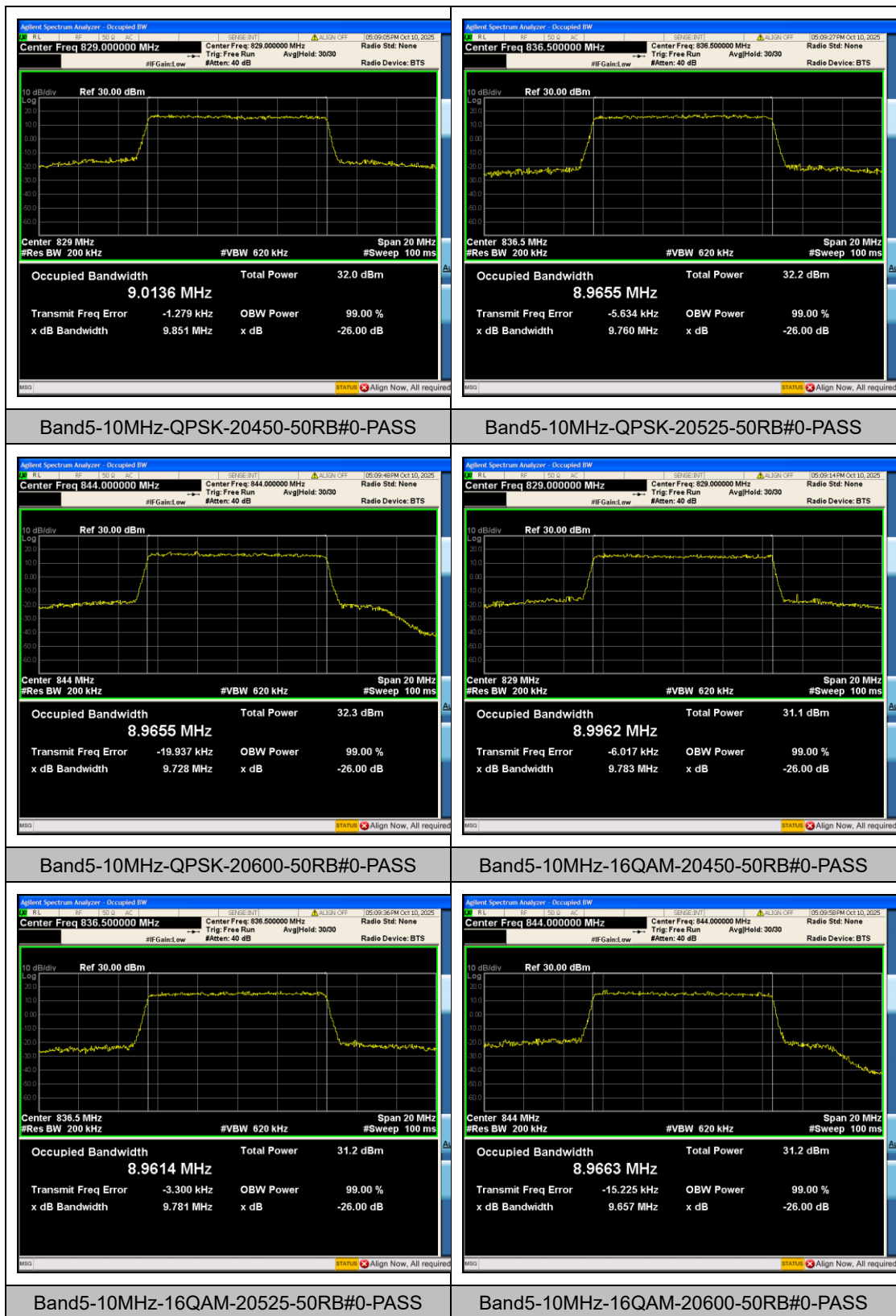
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.0957	1.291	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.0914	1.283	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.0964	1.285	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.0887	1.278	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.0925	1.294	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.0976	1.273	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.6884	2.905	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.6867	2.896	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.6916	2.899	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.6828	2.875	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.6837	2.891	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.6880	2.899	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.4985	4.942	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.4913	4.919	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.4929	4.929	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.4908	4.903	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.4902	4.954	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.5044	4.942	PASS
Band5	10MHz	QPSK	20450	50RB#0	9.0136	9.851	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.9655	9.760	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.9655	9.728	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.9962	9.783	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.9614	9.781	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.9663	9.657	PASS

Test Graphs







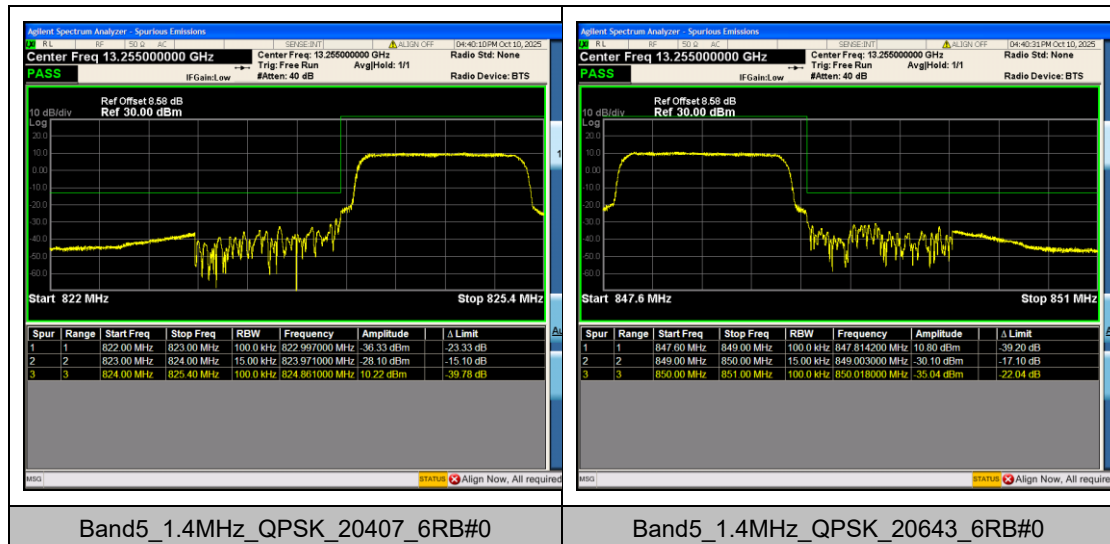


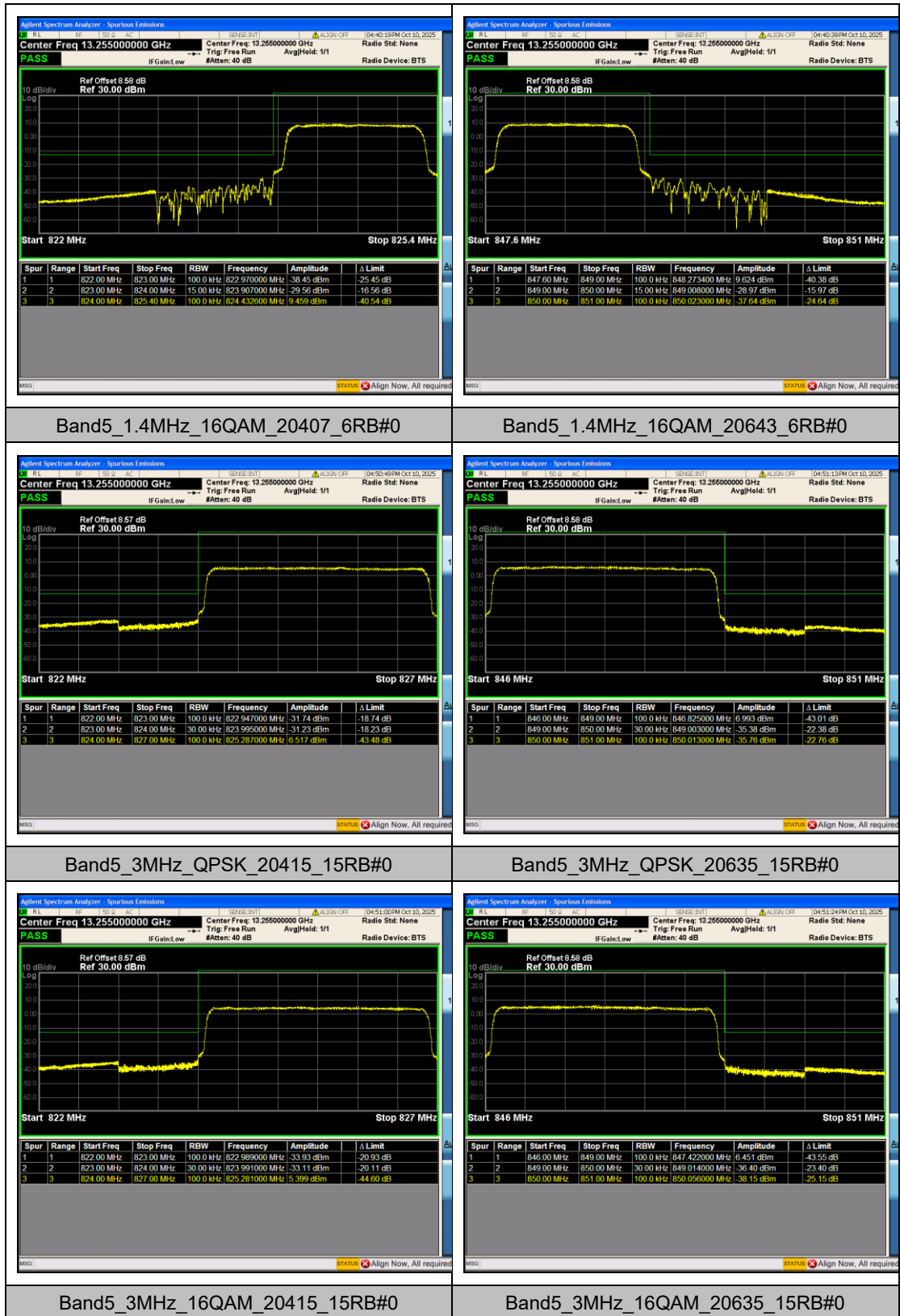
Appendix D: Band Edge

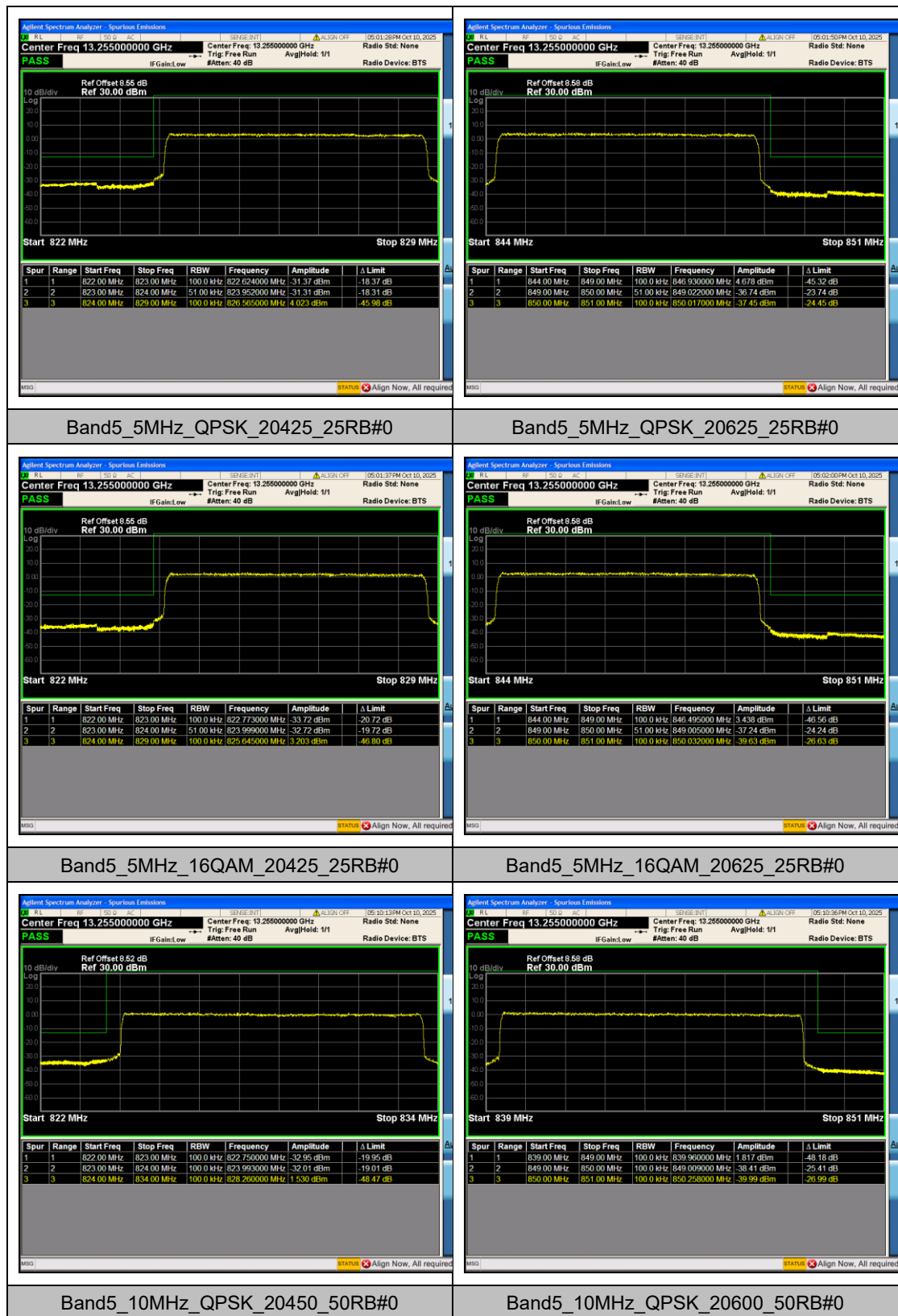
Test Result

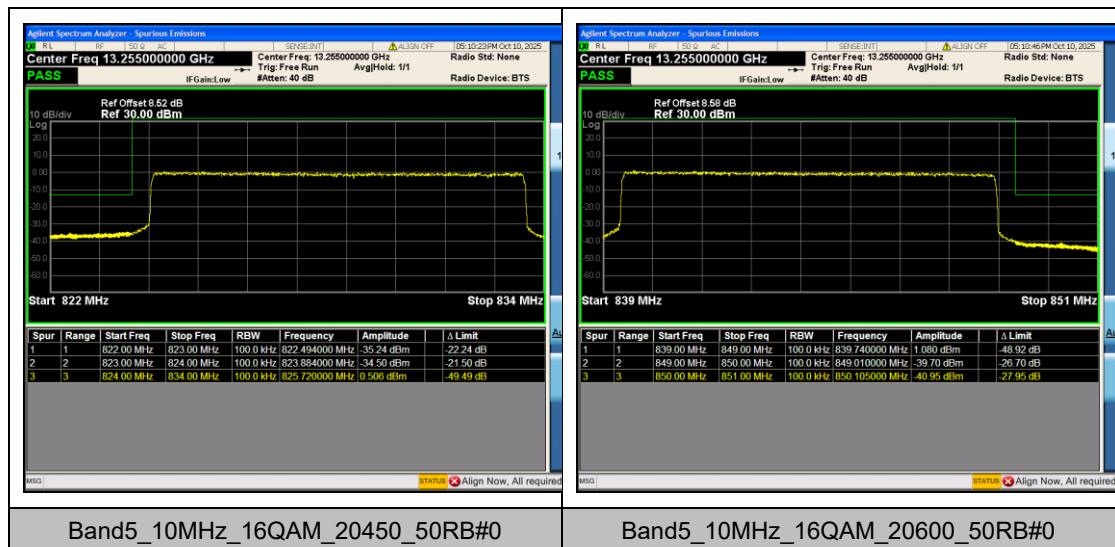
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	-28.10	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	-30.10	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	-29.56	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	-28.97	PASS
Band5	3MHz	QPSK	20415	15RB#0	-31.23	PASS
Band5	3MHz	QPSK	20635	15RB#0	-35.38	PASS
Band5	3MHz	16QAM	20415	15RB#0	-33.11	PASS
Band5	3MHz	16QAM	20635	15RB#0	-36.40	PASS
Band5	5MHz	QPSK	20425	25RB#0	-31.31	PASS
Band5	5MHz	QPSK	20625	25RB#0	-36.74	PASS
Band5	5MHz	16QAM	20425	25RB#0	-32.72	PASS
Band5	5MHz	16QAM	20625	25RB#0	-37.24	PASS
Band5	10MHz	QPSK	20450	50RB#0	-32.01	PASS
Band5	10MHz	QPSK	20600	50RB#0	-38.41	PASS
Band5	10MHz	16QAM	20450	50RB#0	-34.50	PASS
Band5	10MHz	16QAM	20600	50RB#0	-39.70	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	-40.83	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	0.15~30	-53.57	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	30~1000	-46.59	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	1000~3000	-45.77	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	3000~10000	-43.81	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	0.009~0.15	-39.95	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	0.15~30	-51.65	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	30~1000	-48.79	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1000~3000	-46.33	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	3000~10000	-43.94	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	0.009~0.15	-42.30	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	0.15~30	-53.47	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	30~1000	-42.92	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1000~3000	-45.89	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	3000~10000	-43.73	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	0.009~0.15	-37.62	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	0.15~30	-54.24	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	30~1000	-46.94	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1000~3000	-46.16	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	3000~10000	-43.85	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	0.009~0.15	-40.01	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	0.15~30	-53.96	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	30~1000	-48.99	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1000~3000	-46.50	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	3000~10000	-43.93	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	0.009~0.15	-42.53	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	0.15~30	-53.91	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	30~1000	-44.94	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1000~3000	-45.18	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	3000~10000	-43.65	PASS
Band5	3MHz	QPSK	20415	15RB#0	0.009~0.15	-38.66	PASS
Band5	3MHz	QPSK	20415	15RB#0	0.15~30	-51.80	PASS
Band5	3MHz	QPSK	20415	15RB#0	30~1000	-49.08	PASS
Band5	3MHz	QPSK	20415	15RB#0	1000~3000	-46.07	PASS
Band5	3MHz	QPSK	20415	15RB#0	3000~10000	-44.10	PASS
Band5	3MHz	QPSK	20525	15RB#0	0.009~0.15	-40.61	PASS

Band5	3MHz	QPSK	20525	15RB#0	0.15~30	-55.32	PASS
Band5	3MHz	QPSK	20525	15RB#0	30~1000	-49.53	PASS
Band5	3MHz	QPSK	20525	15RB#0	1000~3000	-46.95	PASS
Band5	3MHz	QPSK	20525	15RB#0	3000~10000	-43.92	PASS
Band5	3MHz	QPSK	20635	15RB#0	0.009~0.15	-43.00	PASS
Band5	3MHz	QPSK	20635	15RB#0	0.15~30	-54.00	PASS
Band5	3MHz	QPSK	20635	15RB#0	30~1000	-46.37	PASS
Band5	3MHz	QPSK	20635	15RB#0	1000~3000	-46.88	PASS
Band5	3MHz	QPSK	20635	15RB#0	3000~10000	-43.78	PASS
Band5	3MHz	16QAM	20415	15RB#0	0.009~0.15	-41.38	PASS
Band5	3MHz	16QAM	20415	15RB#0	0.15~30	-51.64	PASS
Band5	3MHz	16QAM	20415	15RB#0	30~1000	-50.27	PASS
Band5	3MHz	16QAM	20415	15RB#0	1000~3000	-46.74	PASS
Band5	3MHz	16QAM	20415	15RB#0	3000~10000	-43.92	PASS
Band5	3MHz	16QAM	20525	15RB#0	0.009~0.15	-41.41	PASS
Band5	3MHz	16QAM	20525	15RB#0	0.15~30	-53.37	PASS
Band5	3MHz	16QAM	20525	15RB#0	30~1000	-50.98	PASS
Band5	3MHz	16QAM	20525	15RB#0	1000~3000	-46.88	PASS
Band5	3MHz	16QAM	20525	15RB#0	3000~10000	-43.97	PASS
Band5	3MHz	16QAM	20635	15RB#0	0.009~0.15	-39.88	PASS
Band5	3MHz	16QAM	20635	15RB#0	0.15~30	-53.40	PASS
Band5	3MHz	16QAM	20635	15RB#0	30~1000	-47.81	PASS
Band5	3MHz	16QAM	20635	15RB#0	1000~3000	-46.40	PASS
Band5	3MHz	16QAM	20635	15RB#0	3000~10000	-43.77	PASS
Band5	5MHz	QPSK	20425	25RB#0	0.009~0.15	-39.95	PASS
Band5	5MHz	QPSK	20425	25RB#0	0.15~30	-53.44	PASS
Band5	5MHz	QPSK	20425	25RB#0	30~1000	-50.52	PASS
Band5	5MHz	QPSK	20425	25RB#0	1000~3000	-46.95	PASS
Band5	5MHz	QPSK	20425	25RB#0	3000~10000	-44.03	PASS
Band5	5MHz	QPSK	20525	25RB#0	0.009~0.15	-40.36	PASS
Band5	5MHz	QPSK	20525	25RB#0	0.15~30	-52.51	PASS
Band5	5MHz	QPSK	20525	25RB#0	30~1000	-52.00	PASS
Band5	5MHz	QPSK	20525	25RB#0	1000~3000	-46.84	PASS
Band5	5MHz	QPSK	20525	25RB#0	3000~10000	-44.03	PASS
Band5	5MHz	QPSK	20625	25RB#0	0.009~0.15	-38.86	PASS
Band5	5MHz	QPSK	20625	25RB#0	0.15~30	-54.81	PASS
Band5	5MHz	QPSK	20625	25RB#0	30~1000	-50.01	PASS
Band5	5MHz	QPSK	20625	25RB#0	1000~3000	-46.69	PASS
Band5	5MHz	QPSK	20625	25RB#0	3000~10000	-43.75	PASS
Band5	5MHz	16QAM	20425	25RB#0	0.009~0.15	-39.67	PASS
Band5	5MHz	16QAM	20425	25RB#0	0.15~30	-53.69	PASS
Band5	5MHz	16QAM	20425	25RB#0	30~1000	-53.09	PASS
Band5	5MHz	16QAM	20425	25RB#0	1000~3000	-46.60	PASS

Band5	5MHz	16QAM	20425	25RB#0	3000~10000	-43.93	PASS
Band5	5MHz	16QAM	20525	25RB#0	0.009~0.15	-39.69	PASS
Band5	5MHz	16QAM	20525	25RB#0	0.15~30	-55.34	PASS
Band5	5MHz	16QAM	20525	25RB#0	30~1000	-53.26	PASS
Band5	5MHz	16QAM	20525	25RB#0	1000~3000	-46.59	PASS
Band5	5MHz	16QAM	20525	25RB#0	3000~10000	-43.55	PASS
Band5	5MHz	16QAM	20625	25RB#0	0.009~0.15	-40.64	PASS
Band5	5MHz	16QAM	20625	25RB#0	0.15~30	-53.77	PASS
Band5	5MHz	16QAM	20625	25RB#0	30~1000	-52.31	PASS
Band5	5MHz	16QAM	20625	25RB#0	1000~3000	-46.78	PASS
Band5	5MHz	16QAM	20625	25RB#0	3000~10000	-43.68	PASS
Band5	10MHz	QPSK	20450	50RB#0	0.009~0.15	-40.58	PASS
Band5	10MHz	QPSK	20450	50RB#0	0.15~30	-55.01	PASS
Band5	10MHz	QPSK	20450	50RB#0	30~1000	-60.24	PASS
Band5	10MHz	QPSK	20450	50RB#0	1000~3000	-46.46	PASS
Band5	10MHz	QPSK	20450	50RB#0	3000~10000	-43.73	PASS
Band5	10MHz	QPSK	20525	50RB#0	0.009~0.15	-43.16	PASS
Band5	10MHz	QPSK	20525	50RB#0	0.15~30	-53.10	PASS
Band5	10MHz	QPSK	20525	50RB#0	30~1000	-56.66	PASS
Band5	10MHz	QPSK	20525	50RB#0	1000~3000	-46.78	PASS
Band5	10MHz	QPSK	20525	50RB#0	3000~10000	-44.07	PASS
Band5	10MHz	QPSK	20600	50RB#0	0.009~0.15	-41.67	PASS
Band5	10MHz	QPSK	20600	50RB#0	0.15~30	-54.00	PASS
Band5	10MHz	QPSK	20600	50RB#0	30~1000	-52.36	PASS
Band5	10MHz	QPSK	20600	50RB#0	1000~3000	-46.45	PASS
Band5	10MHz	QPSK	20600	50RB#0	3000~10000	-43.51	PASS
Band5	10MHz	16QAM	20450	50RB#0	0.009~0.15	-41.19	PASS
Band5	10MHz	16QAM	20450	50RB#0	0.15~30	-54.17	PASS
Band5	10MHz	16QAM	20450	50RB#0	30~1000	-60.99	PASS
Band5	10MHz	16QAM	20450	50RB#0	1000~3000	-46.72	PASS
Band5	10MHz	16QAM	20450	50RB#0	3000~10000	-44.06	PASS
Band5	10MHz	16QAM	20525	50RB#0	0.009~0.15	-40.20	PASS
Band5	10MHz	16QAM	20525	50RB#0	0.15~30	-55.54	PASS
Band5	10MHz	16QAM	20525	50RB#0	30~1000	-57.47	PASS
Band5	10MHz	16QAM	20525	50RB#0	1000~3000	-46.52	PASS
Band5	10MHz	16QAM	20525	50RB#0	3000~10000	-43.74	PASS
Band5	10MHz	16QAM	20600	50RB#0	0.009~0.15	-41.49	PASS
Band5	10MHz	16QAM	20600	50RB#0	0.15~30	-52.34	PASS
Band5	10MHz	16QAM	20600	50RB#0	30~1000	-54.46	PASS
Band5	10MHz	16QAM	20600	50RB#0	1000~3000	-46.93	PASS
Band5	10MHz	16QAM	20600	50RB#0	3000~10000	-44.05	PASS

Test Graphs

