

FCC Appendix RF Test Data for LTE Band 41

FCC ID : 2AU4T-TH11

Company : Shanghai TUGE Data Technologies Co., Ltd.

EUT : MobileHub

Model Number : TH11

Report No. : CTA26071403112

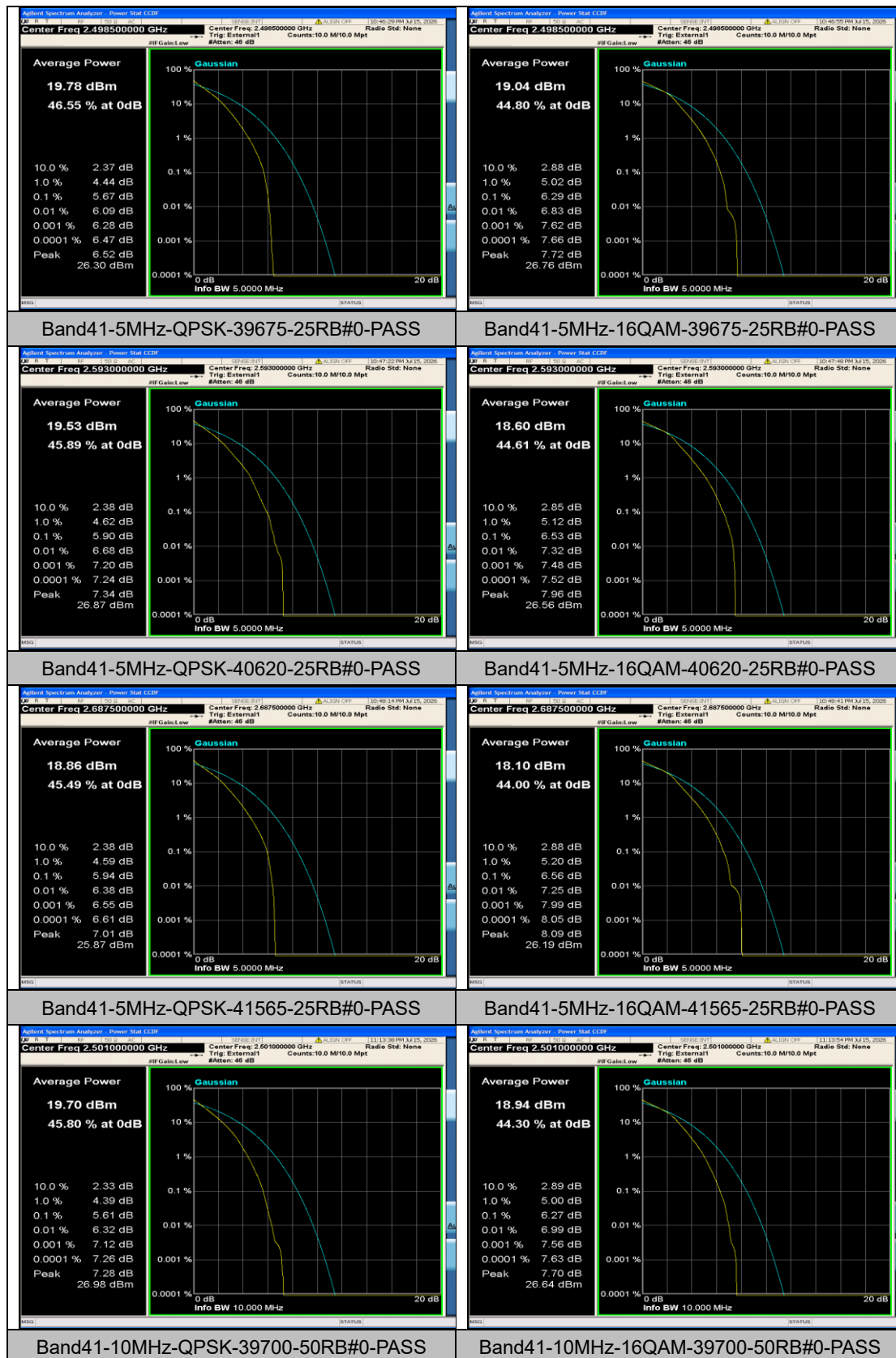
Reviewed By : Eric Wang

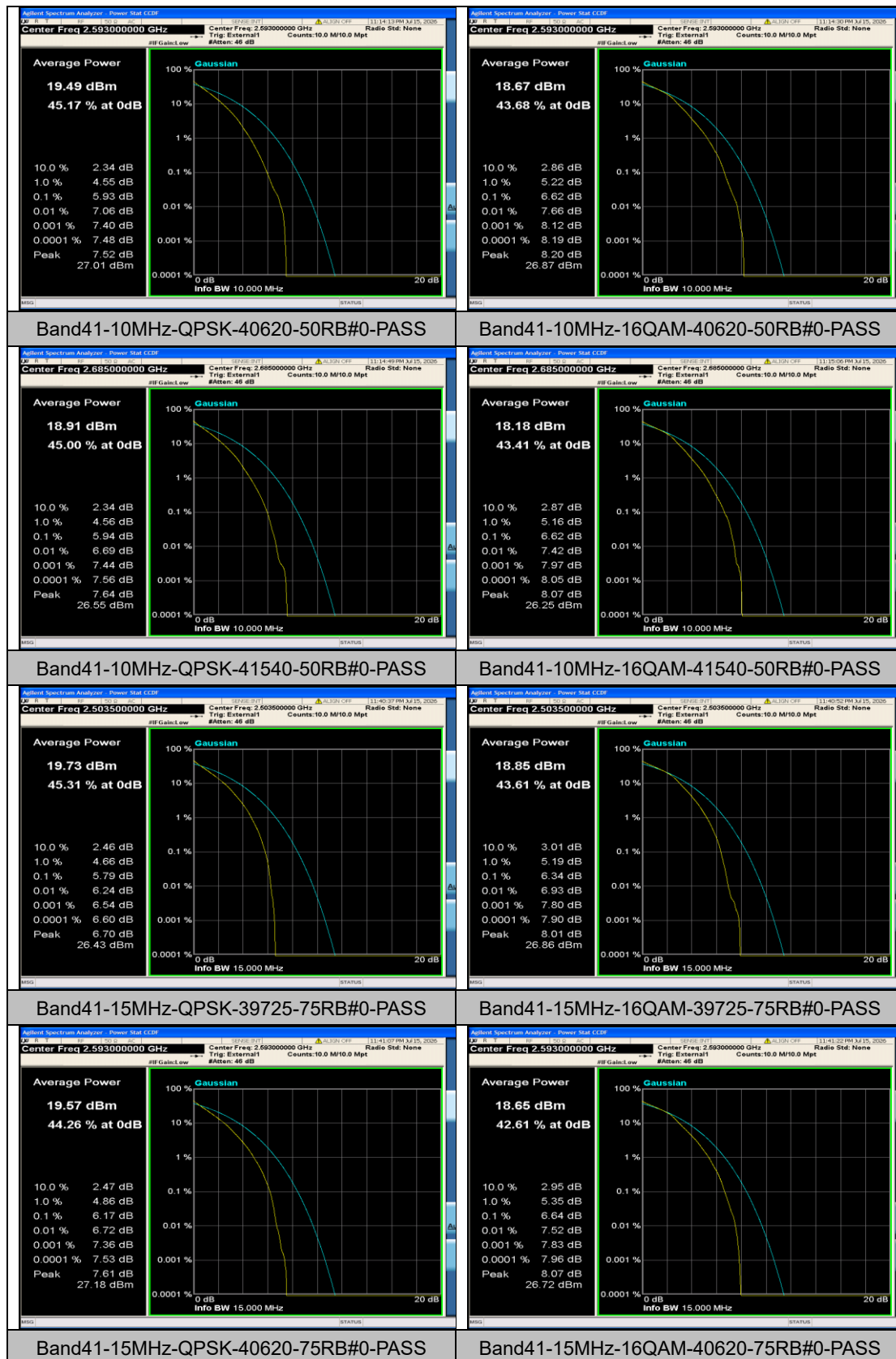
Appendix B: Peak-to-Average Ratio(CCDF)

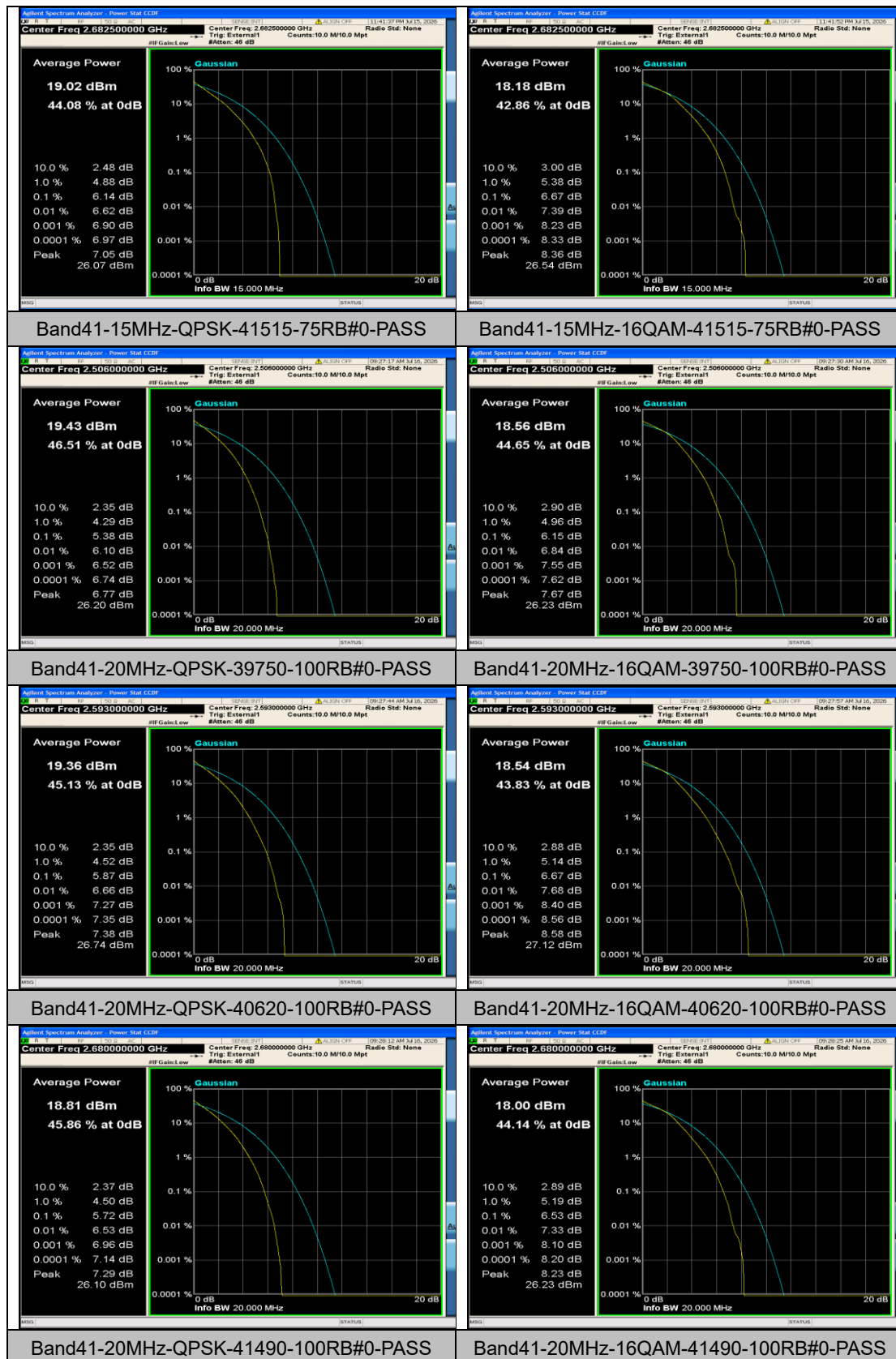
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band41	5MHz	QPSK	39675	25RB#0	5.67	13	PASS
Band41	5MHz	16QAM	39675	25RB#0	6.29	13	PASS
Band41	5MHz	QPSK	40620	25RB#0	5.90	13	PASS
Band41	5MHz	16QAM	40620	25RB#0	6.53	13	PASS
Band41	5MHz	QPSK	41565	25RB#0	5.94	13	PASS
Band41	5MHz	16QAM	41565	25RB#0	6.56	13	PASS
Band41	10MHz	QPSK	39700	50RB#0	5.61	13	PASS
Band41	10MHz	16QAM	39700	50RB#0	6.27	13	PASS
Band41	10MHz	QPSK	40620	50RB#0	5.93	13	PASS
Band41	10MHz	16QAM	40620	50RB#0	6.62	13	PASS
Band41	10MHz	QPSK	41540	50RB#0	5.94	13	PASS
Band41	10MHz	16QAM	41540	50RB#0	6.62	13	PASS
Band41	15MHz	QPSK	39725	75RB#0	5.79	13	PASS
Band41	15MHz	16QAM	39725	75RB#0	6.34	13	PASS
Band41	15MHz	QPSK	40620	75RB#0	6.17	13	PASS
Band41	15MHz	16QAM	40620	75RB#0	6.64	13	PASS
Band41	15MHz	QPSK	41515	75RB#0	6.14	13	PASS
Band41	15MHz	16QAM	41515	75RB#0	6.67	13	PASS
Band41	20MHz	QPSK	39750	100RB#0	5.38	13	PASS
Band41	20MHz	16QAM	39750	100RB#0	6.15	13	PASS
Band41	20MHz	QPSK	40620	100RB#0	5.87	13	PASS
Band41	20MHz	16QAM	40620	100RB#0	6.67	13	PASS
Band41	20MHz	QPSK	41490	100RB#0	5.72	13	PASS
Band41	20MHz	16QAM	41490	100RB#0	6.53	13	PASS

Test Graphs





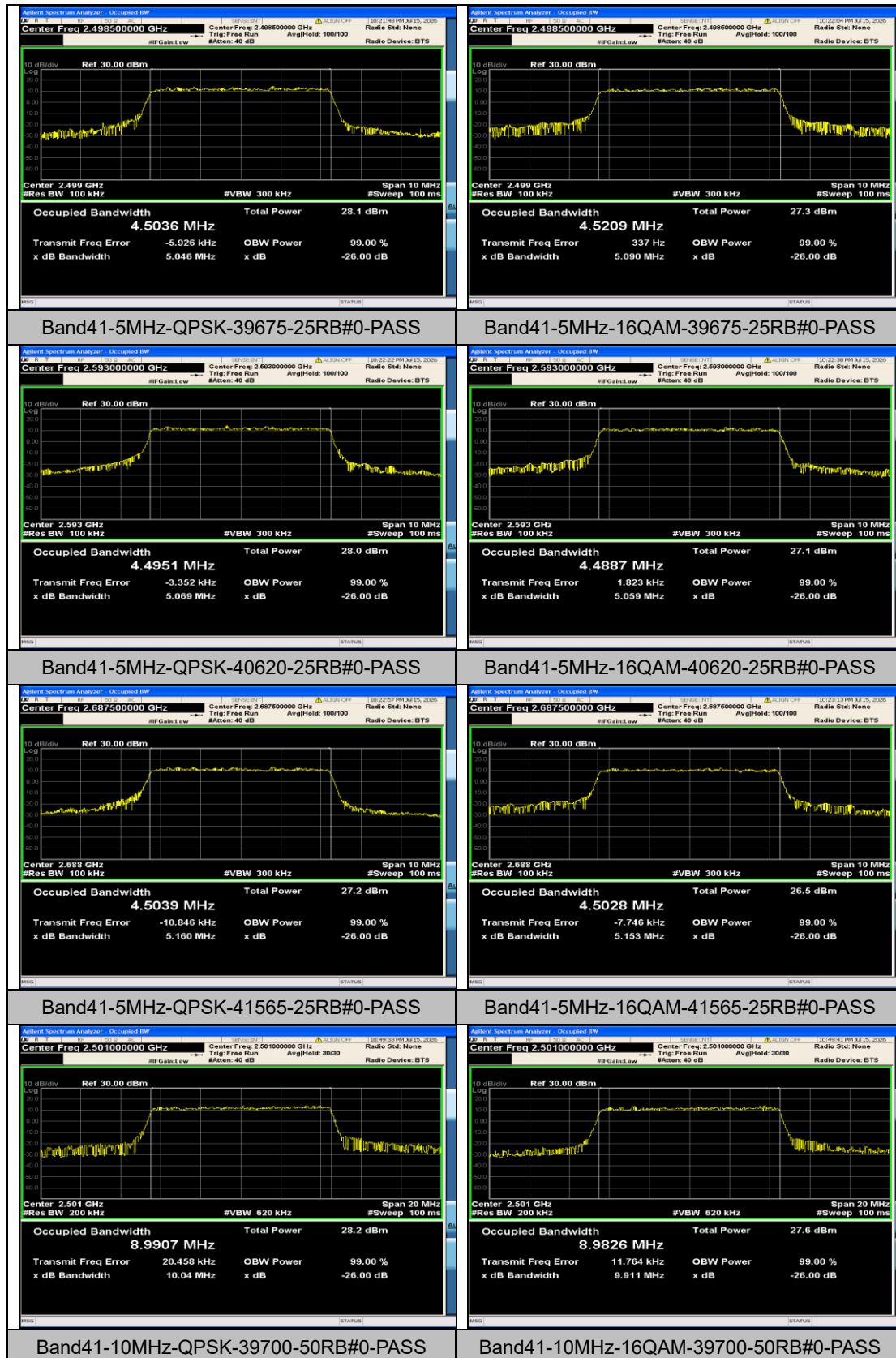


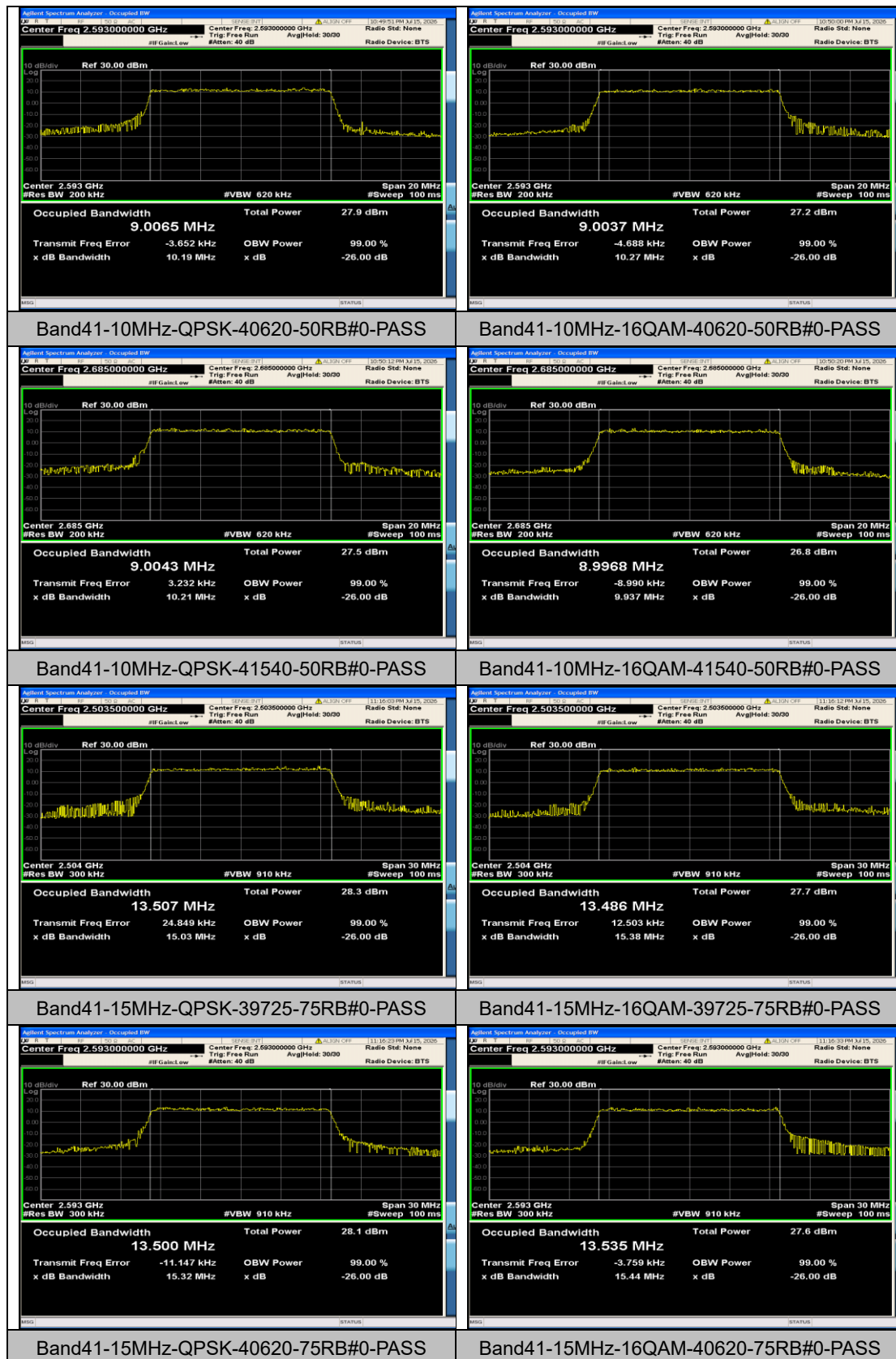
Appendix C: 26dB Bandwidth and Occupied Bandwidth

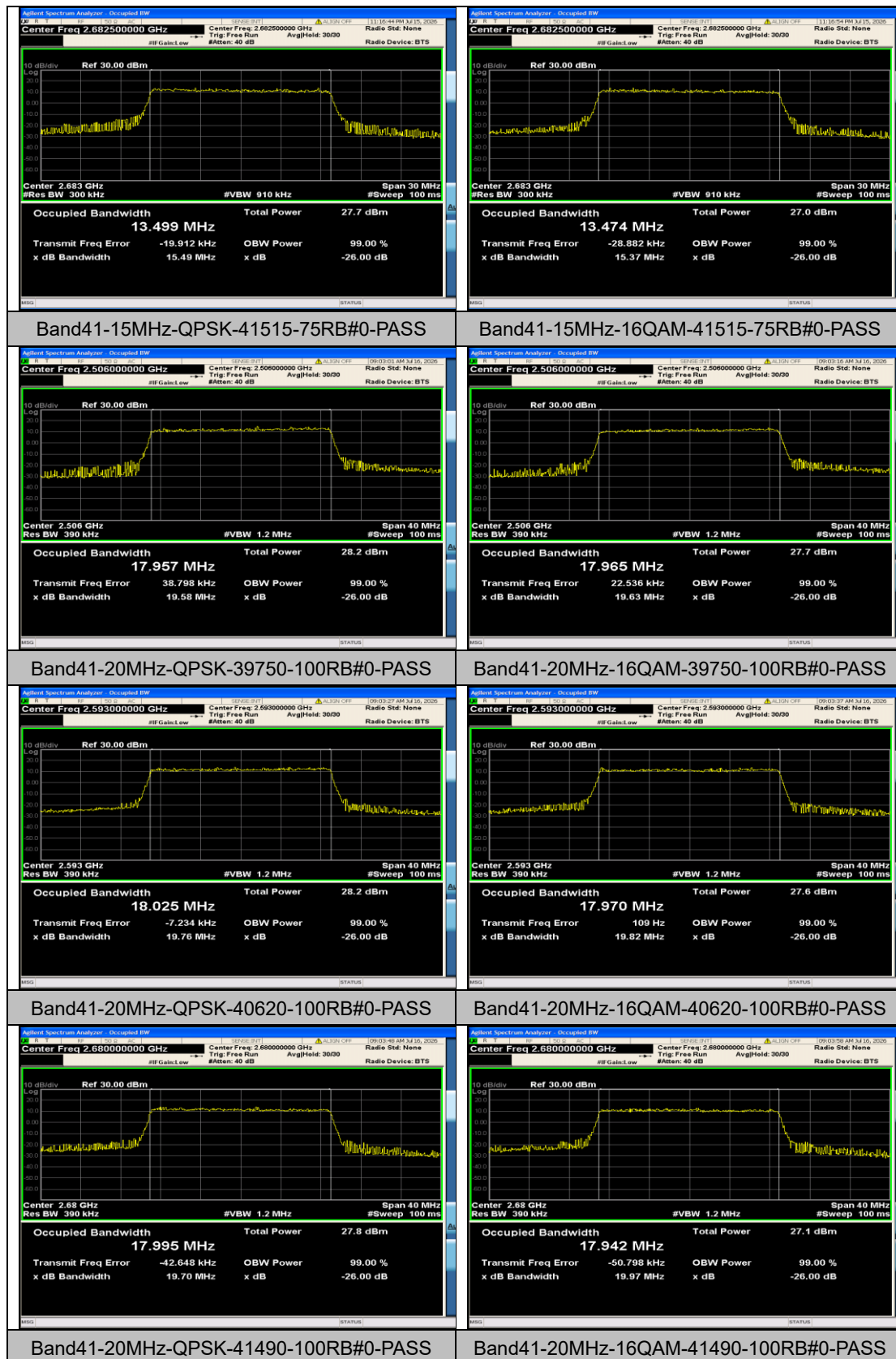
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band41	5MHz	QPSK	39675	25RB#0	4.5036	5.046	PASS
Band41	5MHz	16QAM	39675	25RB#0	4.5209	5.090	PASS
Band41	5MHz	QPSK	40620	25RB#0	4.4951	5.069	PASS
Band41	5MHz	16QAM	40620	25RB#0	4.4887	5.059	PASS
Band41	5MHz	QPSK	41565	25RB#0	4.5039	5.160	PASS
Band41	5MHz	16QAM	41565	25RB#0	4.5028	5.153	PASS
Band41	10MHz	QPSK	39700	50RB#0	8.9907	10.04	PASS
Band41	10MHz	16QAM	39700	50RB#0	8.9826	9.911	PASS
Band41	10MHz	QPSK	40620	50RB#0	9.0065	10.19	PASS
Band41	10MHz	16QAM	40620	50RB#0	9.0037	10.27	PASS
Band41	10MHz	QPSK	41540	50RB#0	9.0043	10.21	PASS
Band41	10MHz	16QAM	41540	50RB#0	8.9968	9.937	PASS
Band41	15MHz	QPSK	39725	75RB#0	13.507	15.03	PASS
Band41	15MHz	16QAM	39725	75RB#0	13.486	15.38	PASS
Band41	15MHz	QPSK	40620	75RB#0	13.500	15.32	PASS
Band41	15MHz	16QAM	40620	75RB#0	13.535	15.44	PASS
Band41	15MHz	QPSK	41515	75RB#0	13.499	15.49	PASS
Band41	15MHz	16QAM	41515	75RB#0	13.474	15.37	PASS
Band41	20MHz	QPSK	39750	100RB#0	17.957	19.58	PASS
Band41	20MHz	16QAM	39750	100RB#0	17.965	19.63	PASS
Band41	20MHz	QPSK	40620	100RB#0	18.025	19.76	PASS
Band41	20MHz	16QAM	40620	100RB#0	17.970	19.82	PASS
Band41	20MHz	QPSK	41490	100RB#0	17.995	19.70	PASS
Band41	20MHz	16QAM	41490	100RB#0	17.942	19.97	PASS

Test Graphs





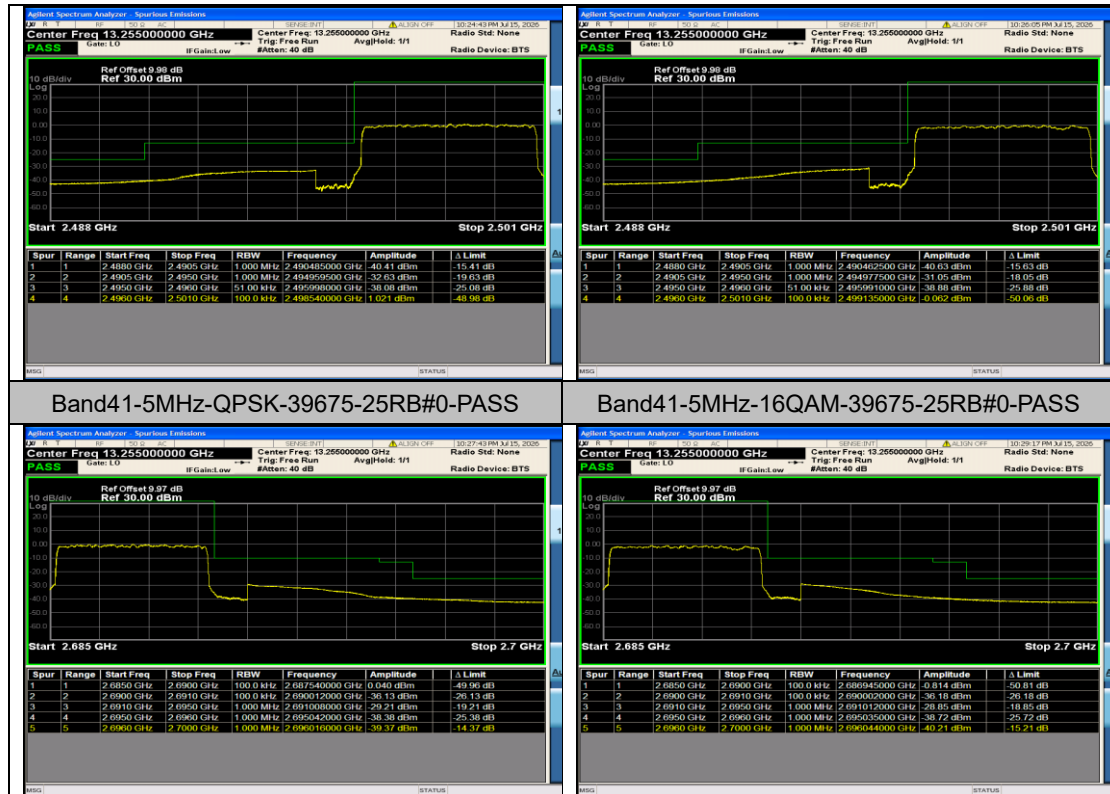


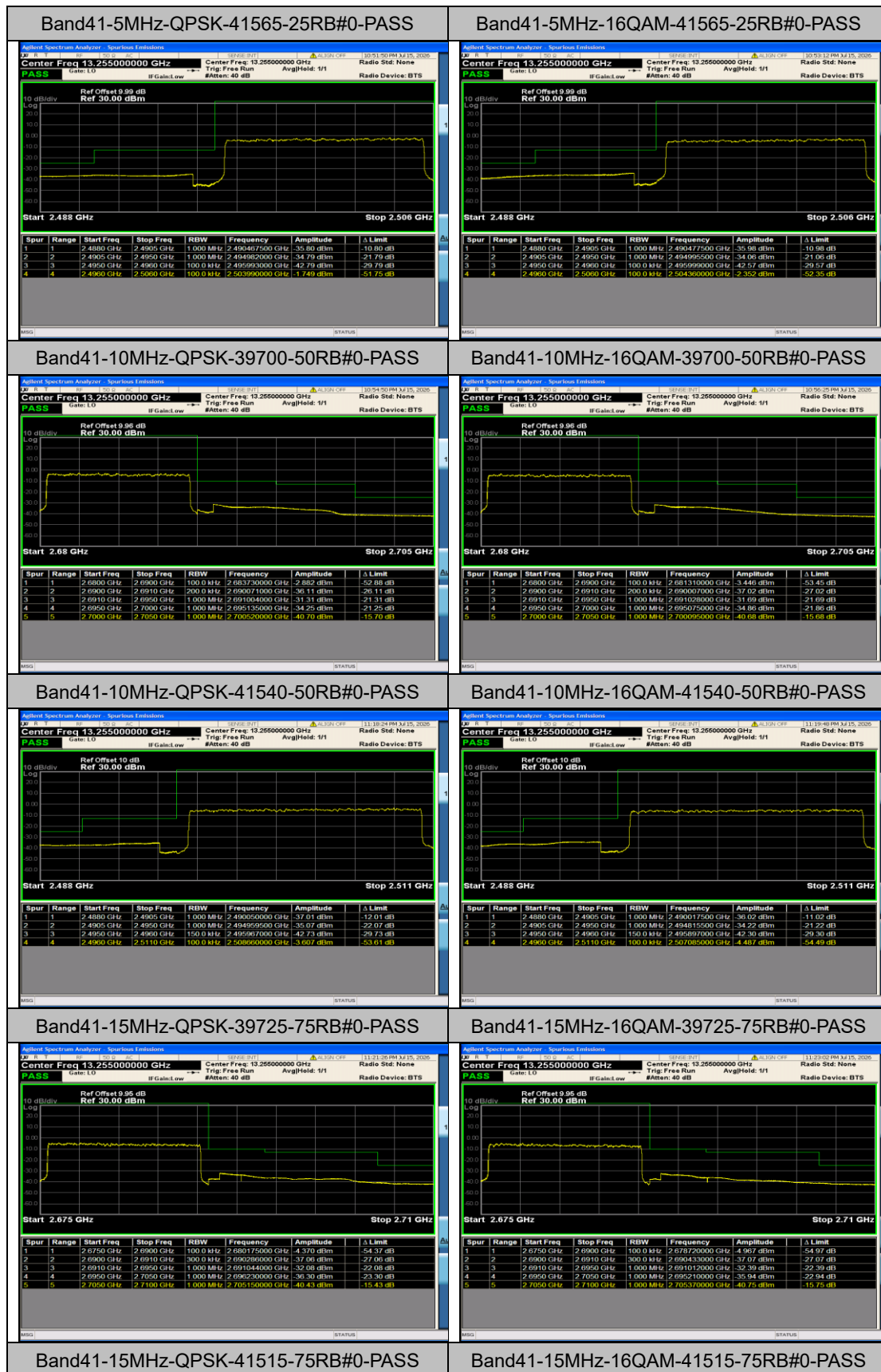
Appendix D: Band Edge

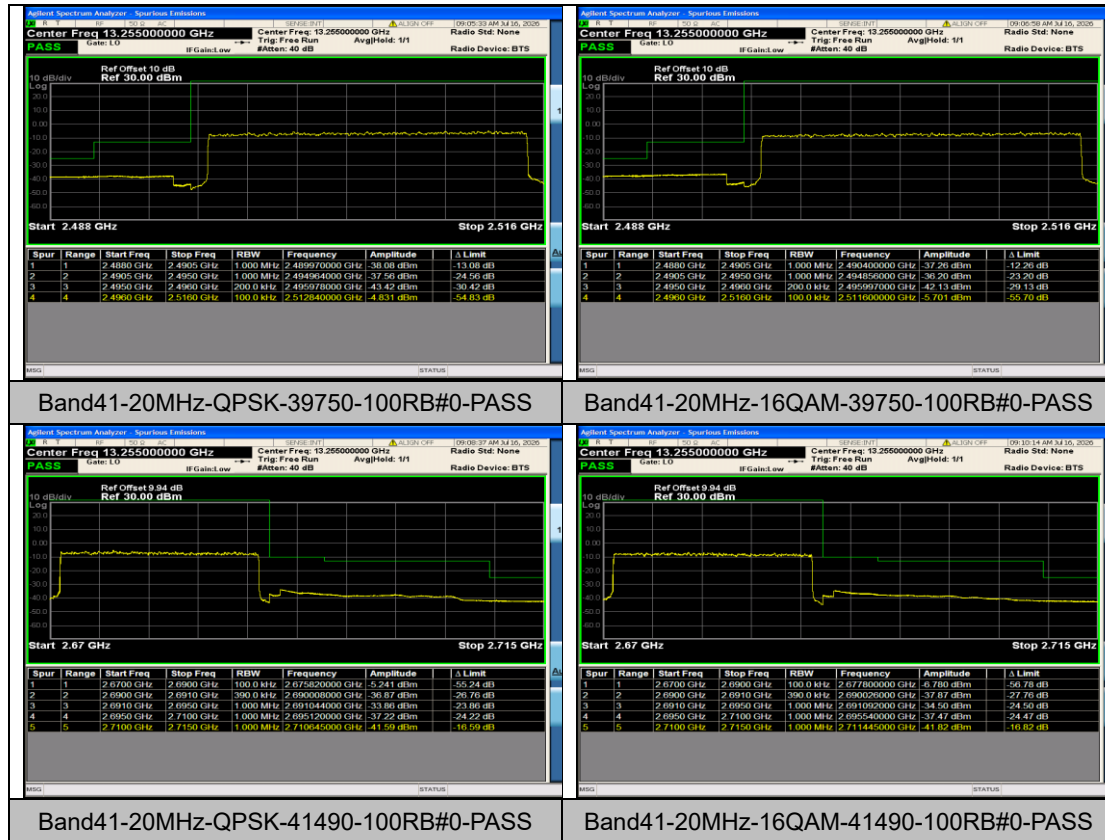
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band41	5MHz	QPSK	39675	25RB#0	-40.41	PASS
Band41	5MHz	16QAM	39675	25RB#0	-40.63	PASS
Band41	5MHz	QPSK	41565	25RB#0	-39.37	PASS
Band41	5MHz	16QAM	41565	25RB#0	-40.21	PASS
Band41	10MHz	QPSK	39700	50RB#0	-35.80	PASS
Band41	10MHz	16QAM	39700	50RB#0	-35.98	PASS
Band41	10MHz	QPSK	41540	50RB#0	-40.70	PASS
Band41	10MHz	16QAM	41540	50RB#0	-40.68	PASS
Band41	15MHz	QPSK	39725	75RB#0	-37.01	PASS
Band41	15MHz	16QAM	39725	75RB#0	-36.02	PASS
Band41	15MHz	QPSK	41515	75RB#0	-40.43	PASS
Band41	15MHz	16QAM	41515	75RB#0	-40.75	PASS
Band41	20MHz	QPSK	39750	100RB#0	-38.08	PASS
Band41	20MHz	16QAM	39750	100RB#0	-37.26	PASS
Band41	20MHz	QPSK	41490	100RB#0	-41.59	PASS
Band41	20MHz	16QAM	41490	100RB#0	-41.82	PASS

Test Graphs







Appendix E: Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band41	5MHz	QPSK	39675	25RB#0	0.009~0.15	-69.89	PASS
Band41	5MHz	QPSK	39675	25RB#0	0.15~30	-61.72	PASS
Band41	5MHz	QPSK	39675	25RB#0	30~1000	-58.13	PASS
Band41	5MHz	QPSK	39675	25RB#0	1000~3000	-45.64	PASS
Band41	5MHz	QPSK	39675	25RB#0	3000~18000	-38.69	PASS
Band41	5MHz	QPSK	39675	25RB#0	18000~27000	-32.21	PASS
Band41	5MHz	16QAM	39675	25RB#0	0.009~0.15	-70.33	PASS
Band41	5MHz	16QAM	39675	25RB#0	0.15~30	-59.71	PASS
Band41	5MHz	16QAM	39675	25RB#0	30~1000	-58.17	PASS
Band41	5MHz	16QAM	39675	25RB#0	1000~3000	-46.28	PASS
Band41	5MHz	16QAM	39675	25RB#0	3000~18000	-38.46	PASS
Band41	5MHz	16QAM	39675	25RB#0	18000~27000	-32.43	PASS
Band41	5MHz	QPSK	40620	25RB#0	0.009~0.15	-70.01	PASS
Band41	5MHz	QPSK	40620	25RB#0	0.15~30	-58.58	PASS
Band41	5MHz	QPSK	40620	25RB#0	30~1000	-57.22	PASS
Band41	5MHz	QPSK	40620	25RB#0	1000~3000	-45.96	PASS
Band41	5MHz	QPSK	40620	25RB#0	3000~18000	-38.58	PASS
Band41	5MHz	QPSK	40620	25RB#0	18000~27000	-32.21	PASS
Band41	5MHz	16QAM	40620	25RB#0	0.009~0.15	-70.22	PASS
Band41	5MHz	16QAM	40620	25RB#0	0.15~30	-60.20	PASS
Band41	5MHz	16QAM	40620	25RB#0	30~1000	-58.59	PASS
Band41	5MHz	16QAM	40620	25RB#0	1000~3000	-47.17	PASS
Band41	5MHz	16QAM	40620	25RB#0	3000~18000	-38.47	PASS
Band41	5MHz	16QAM	40620	25RB#0	18000~27000	-32.32	PASS
Band41	5MHz	QPSK	41565	25RB#0	0.009~0.15	-70.12	PASS
Band41	5MHz	QPSK	41565	25RB#0	0.15~30	-60.12	PASS
Band41	5MHz	QPSK	41565	25RB#0	30~1000	-58.51	PASS
Band41	5MHz	QPSK	41565	25RB#0	1000~3000	-44.93	PASS
Band41	5MHz	QPSK	41565	25RB#0	3000~18000	-38.44	PASS
Band41	5MHz	QPSK	41565	25RB#0	18000~27000	-32.42	PASS
Band41	5MHz	16QAM	41565	25RB#0	0.009~0.15	-69.46	PASS
Band41	5MHz	16QAM	41565	25RB#0	0.15~30	-56.50	PASS
Band41	5MHz	16QAM	41565	25RB#0	30~1000	-58.30	PASS
Band41	5MHz	16QAM	41565	25RB#0	1000~3000	-45.67	PASS
Band41	5MHz	16QAM	41565	25RB#0	3000~18000	-38.38	PASS
Band41	5MHz	16QAM	41565	25RB#0	18000~27000	-32.29	PASS

Band41	10MHz	QPSK	39700	50RB#0	0.009~0.15	-70.50	PASS
Band41	10MHz	QPSK	39700	50RB#0	0.15~30	-59.54	PASS
Band41	10MHz	QPSK	39700	50RB#0	30~1000	-58.14	PASS
Band41	10MHz	QPSK	39700	50RB#0	1000~3000	-37.50	PASS
Band41	10MHz	QPSK	39700	50RB#0	3000~18000	-38.67	PASS
Band41	10MHz	QPSK	39700	50RB#0	18000~27000	-32.31	PASS
Band41	10MHz	16QAM	39700	50RB#0	0.009~0.15	-70.11	PASS
Band41	10MHz	16QAM	39700	50RB#0	0.15~30	-60.33	PASS
Band41	10MHz	16QAM	39700	50RB#0	30~1000	-57.72	PASS
Band41	10MHz	16QAM	39700	50RB#0	1000~3000	-38.92	PASS
Band41	10MHz	16QAM	39700	50RB#0	3000~18000	-38.86	PASS
Band41	10MHz	16QAM	39700	50RB#0	18000~27000	-32.44	PASS
Band41	10MHz	QPSK	40620	50RB#0	0.009~0.15	-69.55	PASS
Band41	10MHz	QPSK	40620	50RB#0	0.15~30	-60.02	PASS
Band41	10MHz	QPSK	40620	50RB#0	30~1000	-58.17	PASS
Band41	10MHz	QPSK	40620	50RB#0	1000~3000	-48.21	PASS
Band41	10MHz	QPSK	40620	50RB#0	3000~18000	-38.81	PASS
Band41	10MHz	QPSK	40620	50RB#0	18000~27000	-32.12	PASS
Band41	10MHz	16QAM	40620	50RB#0	0.009~0.15	-69.26	PASS
Band41	10MHz	16QAM	40620	50RB#0	0.15~30	-58.47	PASS
Band41	10MHz	16QAM	40620	50RB#0	30~1000	-58.48	PASS
Band41	10MHz	16QAM	40620	50RB#0	1000~3000	-45.53	PASS
Band41	10MHz	16QAM	40620	50RB#0	3000~18000	-38.61	PASS
Band41	10MHz	16QAM	40620	50RB#0	18000~27000	-32.27	PASS
Band41	10MHz	QPSK	41540	50RB#0	0.009~0.15	-71.18	PASS
Band41	10MHz	QPSK	41540	50RB#0	0.15~30	-58.66	PASS
Band41	10MHz	QPSK	41540	50RB#0	30~1000	-57.66	PASS
Band41	10MHz	QPSK	41540	50RB#0	1000~3000	-44.35	PASS
Band41	10MHz	QPSK	41540	50RB#0	3000~18000	-38.57	PASS
Band41	10MHz	QPSK	41540	50RB#0	18000~27000	-32.42	PASS
Band41	10MHz	16QAM	41540	50RB#0	0.009~0.15	-70.66	PASS
Band41	10MHz	16QAM	41540	50RB#0	0.15~30	-59.52	PASS
Band41	10MHz	16QAM	41540	50RB#0	30~1000	-58.41	PASS
Band41	10MHz	16QAM	41540	50RB#0	1000~3000	-46.44	PASS
Band41	10MHz	16QAM	41540	50RB#0	3000~18000	-38.69	PASS
Band41	10MHz	16QAM	41540	50RB#0	18000~27000	-32.56	PASS
Band41	15MHz	QPSK	39725	75RB#0	0.009~0.15	-69.39	PASS
Band41	15MHz	QPSK	39725	75RB#0	0.15~30	-55.65	PASS
Band41	15MHz	QPSK	39725	75RB#0	30~1000	-57.74	PASS
Band41	15MHz	QPSK	39725	75RB#0	1000~3000	-33.27	PASS
Band41	15MHz	QPSK	39725	75RB#0	3000~18000	-38.55	PASS
Band41	15MHz	QPSK	39725	75RB#0	18000~27000	-32.25	PASS
Band41	15MHz	16QAM	39725	75RB#0	0.009~0.15	-69.61	PASS

Band41	15MHz	16QAM	39725	75RB#0	0.15~30	-60.44	PASS
Band41	15MHz	16QAM	39725	75RB#0	30~1000	-57.89	PASS
Band41	15MHz	16QAM	39725	75RB#0	1000~3000	-35.52	PASS
Band41	15MHz	16QAM	39725	75RB#0	3000~18000	-38.46	PASS
Band41	15MHz	16QAM	39725	75RB#0	18000~27000	-32.35	PASS
Band41	15MHz	QPSK	40620	75RB#0	0.009~0.15	-69.95	PASS
Band41	15MHz	QPSK	40620	75RB#0	0.15~30	-58.76	PASS
Band41	15MHz	QPSK	40620	75RB#0	30~1000	-58.39	PASS
Band41	15MHz	QPSK	40620	75RB#0	1000~3000	-47.28	PASS
Band41	15MHz	QPSK	40620	75RB#0	3000~18000	-38.77	PASS
Band41	15MHz	QPSK	40620	75RB#0	18000~27000	-32.02	PASS
Band41	15MHz	16QAM	40620	75RB#0	0.009~0.15	-69.79	PASS
Band41	15MHz	16QAM	40620	75RB#0	0.15~30	-61.84	PASS
Band41	15MHz	16QAM	40620	75RB#0	30~1000	-58.05	PASS
Band41	15MHz	16QAM	40620	75RB#0	1000~3000	-47.37	PASS
Band41	15MHz	16QAM	40620	75RB#0	3000~18000	-38.45	PASS
Band41	15MHz	16QAM	40620	75RB#0	18000~27000	-31.98	PASS
Band41	15MHz	QPSK	41515	75RB#0	0.009~0.15	-69.57	PASS
Band41	15MHz	QPSK	41515	75RB#0	0.15~30	-58.79	PASS
Band41	15MHz	QPSK	41515	75RB#0	30~1000	-57.82	PASS
Band41	15MHz	QPSK	41515	75RB#0	1000~3000	-43.31	PASS
Band41	15MHz	QPSK	41515	75RB#0	3000~18000	-38.61	PASS
Band41	15MHz	QPSK	41515	75RB#0	18000~27000	-32.37	PASS
Band41	15MHz	16QAM	41515	75RB#0	0.009~0.15	-68.63	PASS
Band41	15MHz	16QAM	41515	75RB#0	0.15~30	-57.55	PASS
Band41	15MHz	16QAM	41515	75RB#0	30~1000	-58.53	PASS
Band41	15MHz	16QAM	41515	75RB#0	1000~3000	-45.16	PASS
Band41	15MHz	16QAM	41515	75RB#0	3000~18000	-38.54	PASS
Band41	15MHz	16QAM	41515	75RB#0	18000~27000	-32.21	PASS
Band41	20MHz	QPSK	39750	100RB#0	0.009~0.15	-69.43	PASS
Band41	20MHz	QPSK	39750	100RB#0	0.15~30	-59.09	PASS
Band41	20MHz	QPSK	39750	100RB#0	30~1000	-58.42	PASS
Band41	20MHz	QPSK	39750	100RB#0	1000~3000	-34.62	PASS
Band41	20MHz	QPSK	39750	100RB#0	3000~18000	-38.69	PASS
Band41	20MHz	QPSK	39750	100RB#0	18000~27000	-32.27	PASS
Band41	20MHz	16QAM	39750	100RB#0	0.009~0.15	-69.78	PASS
Band41	20MHz	16QAM	39750	100RB#0	0.15~30	-61.14	PASS
Band41	20MHz	16QAM	39750	100RB#0	30~1000	-58.42	PASS
Band41	20MHz	16QAM	39750	100RB#0	1000~3000	-34.59	PASS
Band41	20MHz	16QAM	39750	100RB#0	3000~18000	-38.89	PASS
Band41	20MHz	16QAM	39750	100RB#0	18000~27000	-32.26	PASS
Band41	20MHz	QPSK	40620	100RB#0	0.009~0.15	-69.06	PASS
Band41	20MHz	QPSK	40620	100RB#0	0.15~30	-59.69	PASS

Band41	20MHz	QPSK	40620	100RB#0	30~1000	-57.45	PASS
Band41	20MHz	QPSK	40620	100RB#0	1000~3000	-41.49	PASS
Band41	20MHz	QPSK	40620	100RB#0	3000~18000	-38.68	PASS
Band41	20MHz	QPSK	40620	100RB#0	18000~27000	-32.30	PASS
Band41	20MHz	16QAM	40620	100RB#0	0.009~0.15	-69.90	PASS
Band41	20MHz	16QAM	40620	100RB#0	0.15~30	-61.79	PASS
Band41	20MHz	16QAM	40620	100RB#0	30~1000	-58.59	PASS
Band41	20MHz	16QAM	40620	100RB#0	1000~3000	-46.83	PASS
Band41	20MHz	16QAM	40620	100RB#0	3000~18000	-38.66	PASS
Band41	20MHz	16QAM	40620	100RB#0	18000~27000	-31.87	PASS
Band41	20MHz	QPSK	41490	100RB#0	0.009~0.15	-70.40	PASS
Band41	20MHz	QPSK	41490	100RB#0	0.15~30	-59.55	PASS
Band41	20MHz	QPSK	41490	100RB#0	30~1000	-58.29	PASS
Band41	20MHz	QPSK	41490	100RB#0	1000~3000	-44.05	PASS
Band41	20MHz	QPSK	41490	100RB#0	3000~18000	-38.90	PASS
Band41	20MHz	QPSK	41490	100RB#0	18000~27000	-32.41	PASS
Band41	20MHz	16QAM	41490	100RB#0	0.009~0.15	-70.15	PASS
Band41	20MHz	16QAM	41490	100RB#0	0.15~30	-61.44	PASS
Band41	20MHz	16QAM	41490	100RB#0	30~1000	-58.25	PASS
Band41	20MHz	16QAM	41490	100RB#0	1000~3000	-44.19	PASS
Band41	20MHz	16QAM	41490	100RB#0	3000~18000	-38.99	PASS
Band41	20MHz	16QAM	41490	100RB#0	18000~27000	-32.36	PASS

Test Graphs

