

FCC LTE Band Test Data

FCC ID : 2BMDZ-Z-VOYAGE

Company: : Advanced Rugged System Co., LTD

EUT : Rugged Tablet

Model Number : Z_Voyage

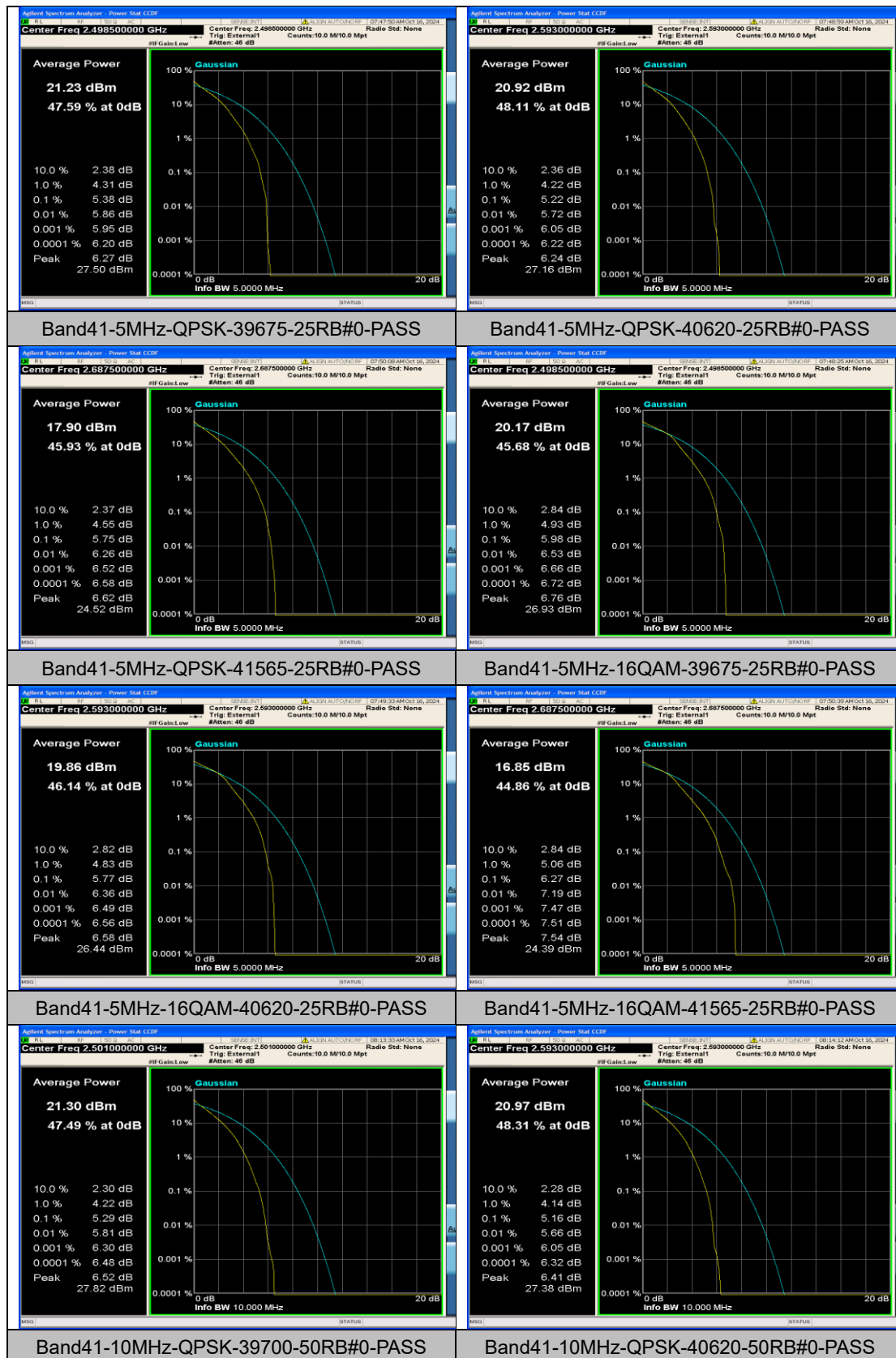
Reviewed By : Eric Wang

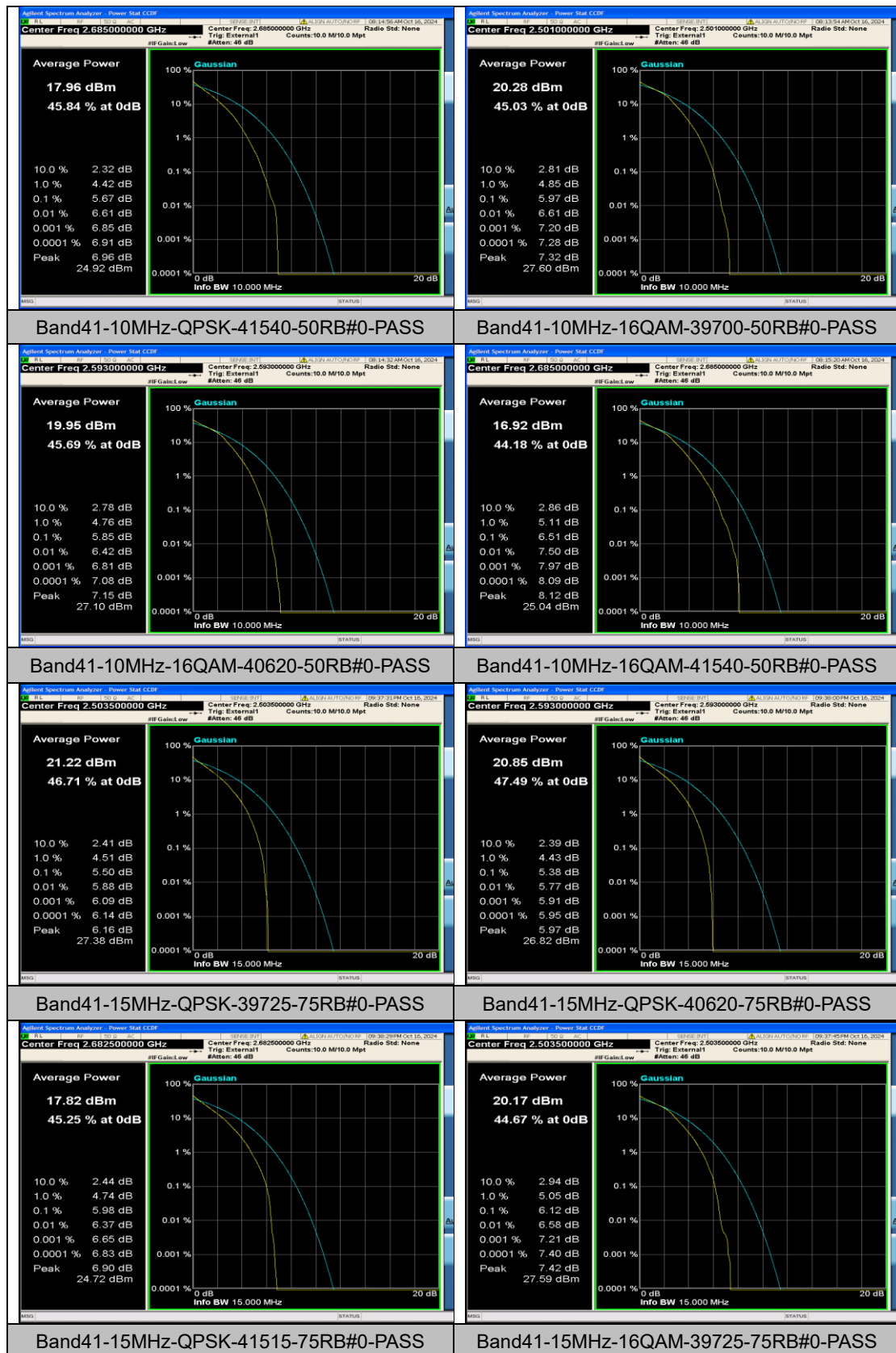
Appendix B: Peak-to-Average Ratio(CCDF)

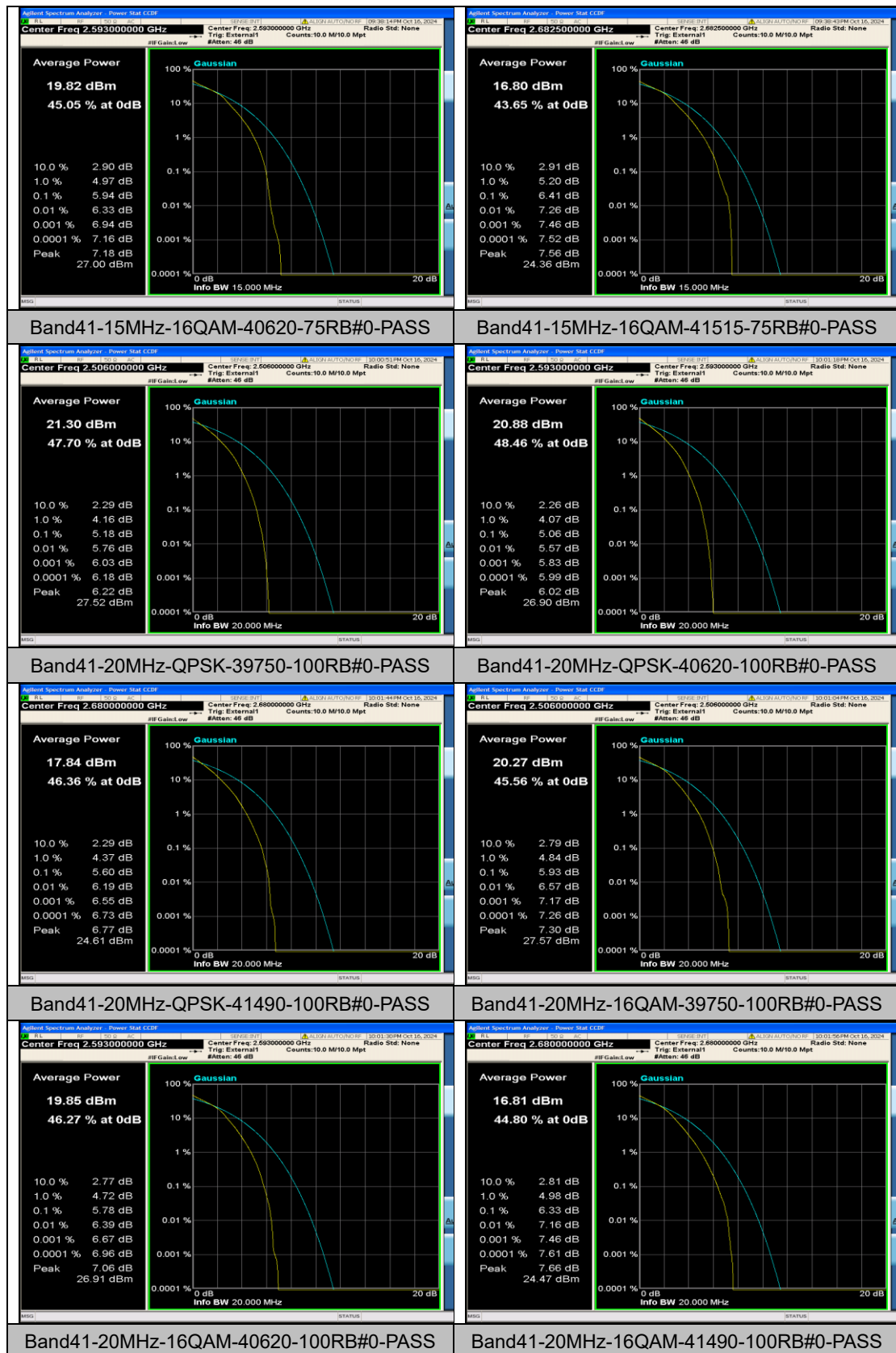
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band41	5MHz	QPSK	39675	25RB#0	5.38	13	PASS
Band41	5MHz	QPSK	40620	25RB#0	5.22	13	PASS
Band41	5MHz	QPSK	41565	25RB#0	5.75	13	PASS
Band41	5MHz	16QAM	39675	25RB#0	5.98	13	PASS
Band41	5MHz	16QAM	40620	25RB#0	5.77	13	PASS
Band41	5MHz	16QAM	41565	25RB#0	6.27	13	PASS
Band41	10MHz	QPSK	39700	50RB#0	5.29	13	PASS
Band41	10MHz	QPSK	40620	50RB#0	5.16	13	PASS
Band41	10MHz	QPSK	41540	50RB#0	5.67	13	PASS
Band41	10MHz	16QAM	39700	50RB#0	5.97	13	PASS
Band41	10MHz	16QAM	40620	50RB#0	5.85	13	PASS
Band41	10MHz	16QAM	41540	50RB#0	6.51	13	PASS
Band41	15MHz	QPSK	39725	75RB#0	5.50	13	PASS
Band41	15MHz	QPSK	40620	75RB#0	5.38	13	PASS
Band41	15MHz	QPSK	41515	75RB#0	5.98	13	PASS
Band41	15MHz	16QAM	39725	75RB#0	6.12	13	PASS
Band41	15MHz	16QAM	40620	75RB#0	5.94	13	PASS
Band41	15MHz	16QAM	41515	75RB#0	6.41	13	PASS
Band41	20MHz	QPSK	39750	100RB#0	5.18	13	PASS
Band41	20MHz	QPSK	40620	100RB#0	5.06	13	PASS
Band41	20MHz	QPSK	41490	100RB#0	5.60	13	PASS
Band41	20MHz	16QAM	39750	100RB#0	5.93	13	PASS
Band41	20MHz	16QAM	40620	100RB#0	5.78	13	PASS
Band41	20MHz	16QAM	41490	100RB#0	6.33	13	PASS

Test Graphs





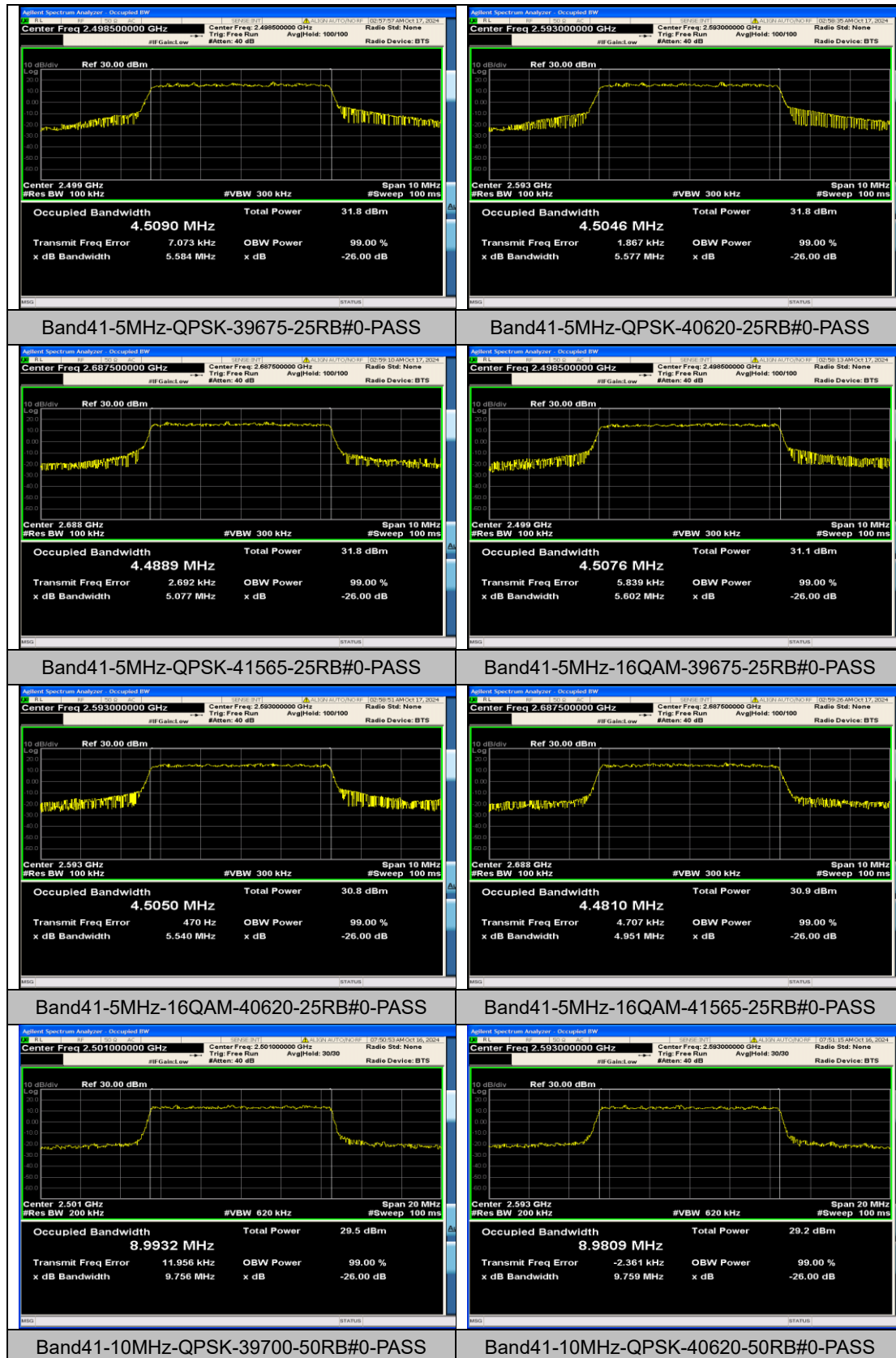


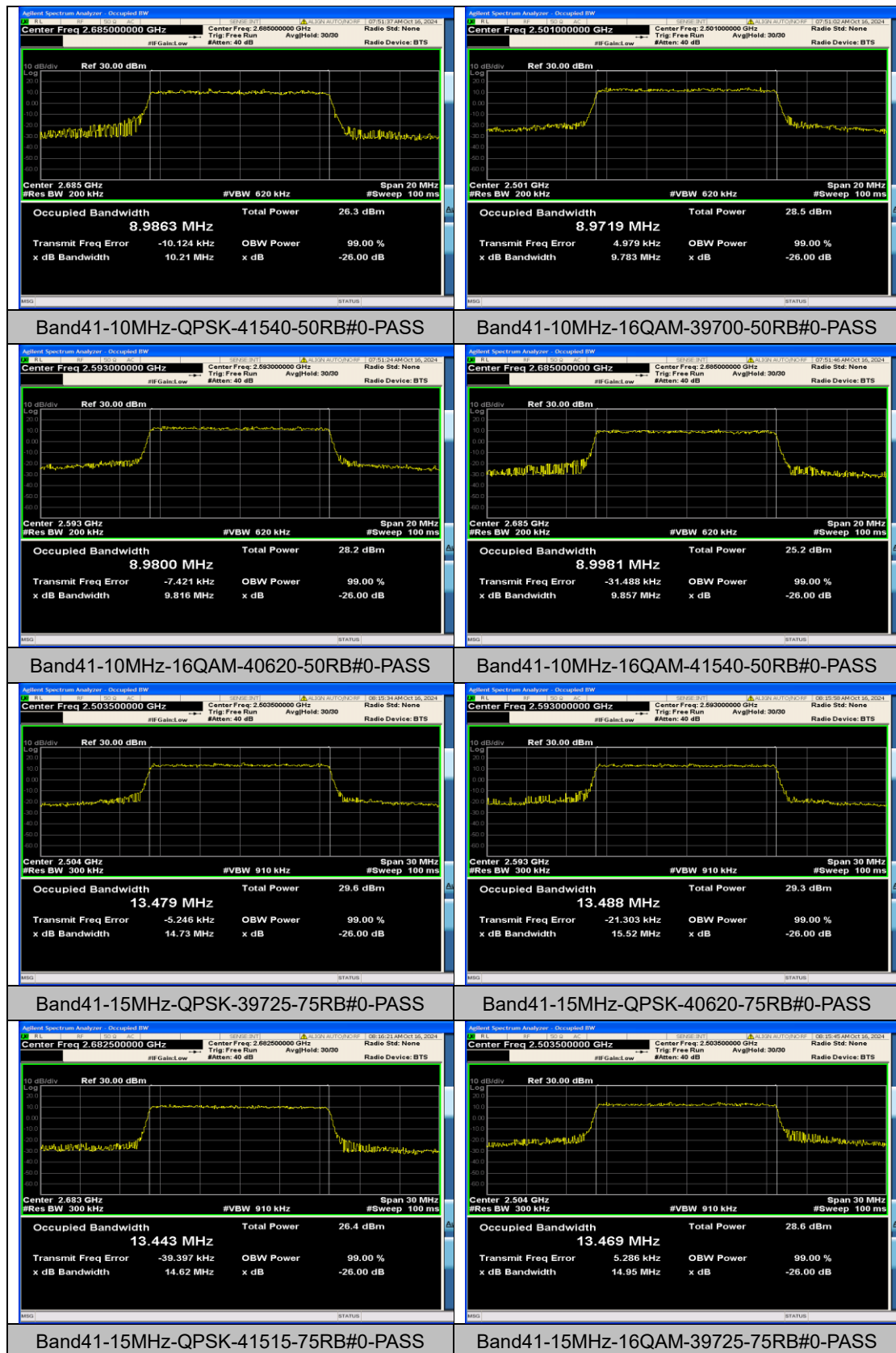
Appendix C: 26dB Bandwidth and Occupied Bandwidth

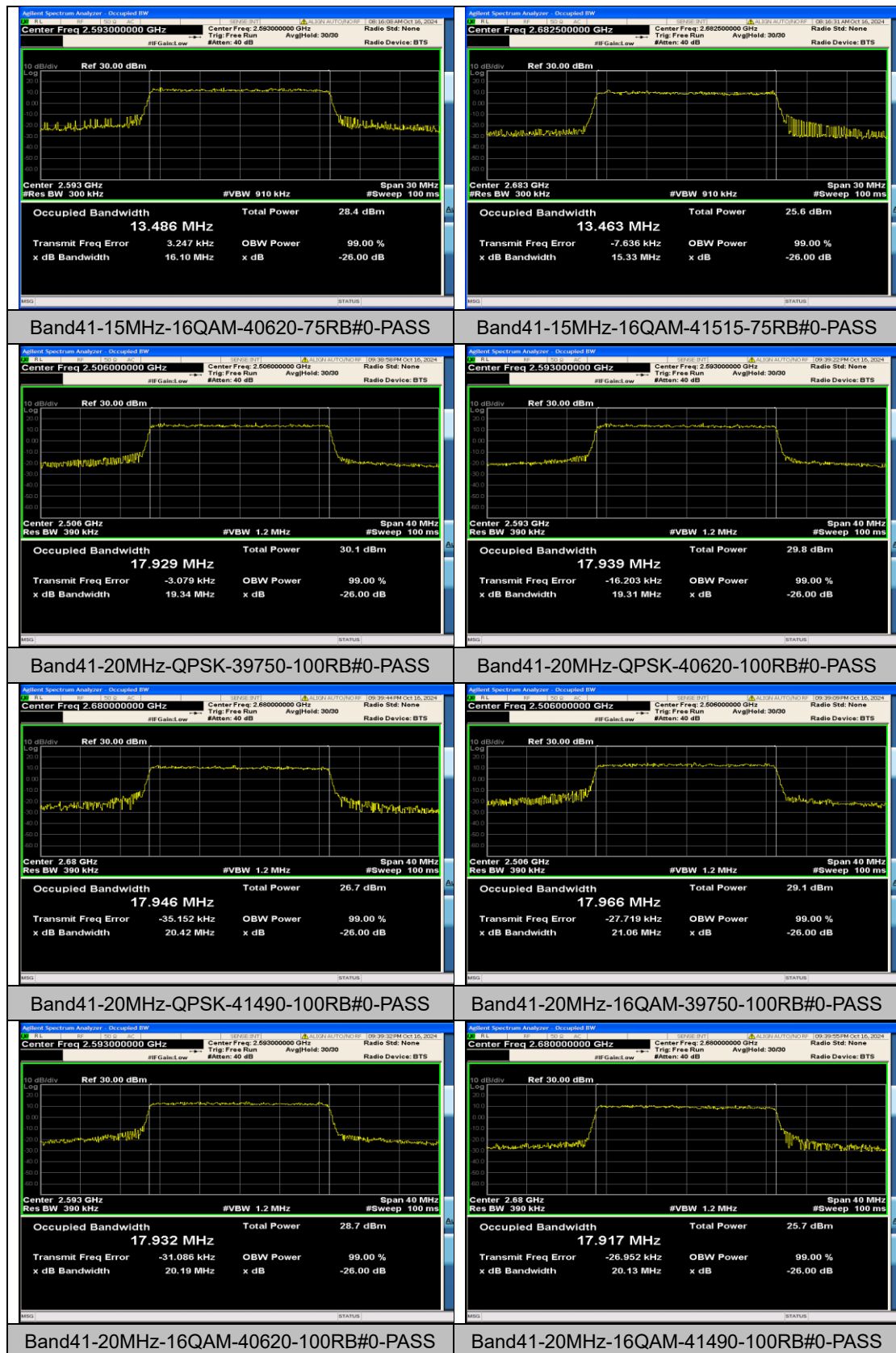
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band41	5MHz	QPSK	39675	25RB#0	4.5090	5.584	PASS
Band41	5MHz	QPSK	40620	25RB#0	4.5046	5.577	PASS
Band41	5MHz	QPSK	41565	25RB#0	4.4889	5.077	PASS
Band41	5MHz	16QAM	39675	25RB#0	4.5076	5.602	PASS
Band41	5MHz	16QAM	40620	25RB#0	4.5050	5.540	PASS
Band41	5MHz	16QAM	41565	25RB#0	4.4810	4.951	PASS
Band41	10MHz	QPSK	39700	50RB#0	8.9932	9.756	PASS
Band41	10MHz	QPSK	40620	50RB#0	8.9809	9.759	PASS
Band41	10MHz	QPSK	41540	50RB#0	8.9863	10.21	PASS
Band41	10MHz	16QAM	39700	50RB#0	8.9719	9.783	PASS
Band41	10MHz	16QAM	40620	50RB#0	8.9800	9.816	PASS
Band41	10MHz	16QAM	41540	50RB#0	8.9981	9.857	PASS
Band41	15MHz	QPSK	39725	75RB#0	13.479	14.73	PASS
Band41	15MHz	QPSK	40620	75RB#0	13.488	15.52	PASS
Band41	15MHz	QPSK	41515	75RB#0	13.443	14.62	PASS
Band41	15MHz	16QAM	39725	75RB#0	13.469	14.95	PASS
Band41	15MHz	16QAM	40620	75RB#0	13.486	16.10	PASS
Band41	15MHz	16QAM	41515	75RB#0	13.463	15.33	PASS
Band41	20MHz	QPSK	39750	100RB#0	17.929	19.34	PASS
Band41	20MHz	QPSK	40620	100RB#0	17.939	19.31	PASS
Band41	20MHz	QPSK	41490	100RB#0	17.946	20.42	PASS
Band41	20MHz	16QAM	39750	100RB#0	17.966	21.06	PASS
Band41	20MHz	16QAM	40620	100RB#0	17.932	20.19	PASS
Band41	20MHz	16QAM	41490	100RB#0	17.917	20.13	PASS

Test Graphs





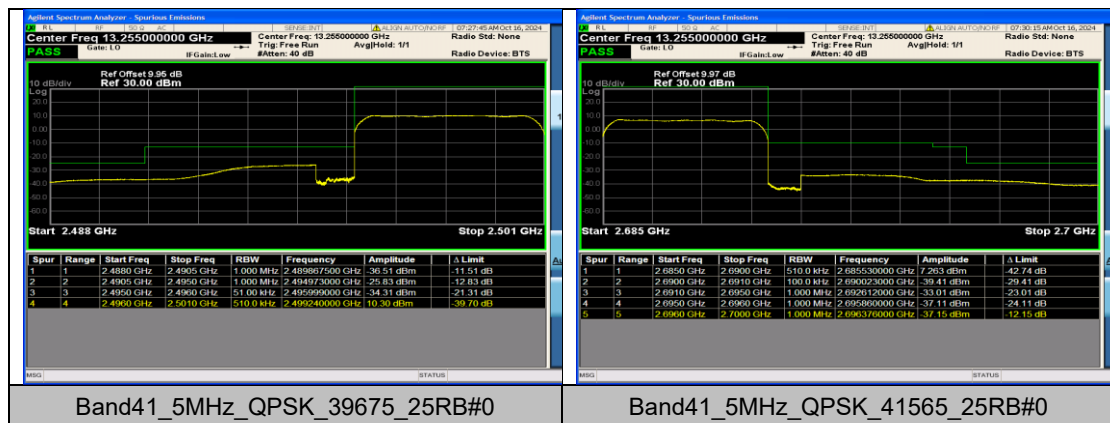


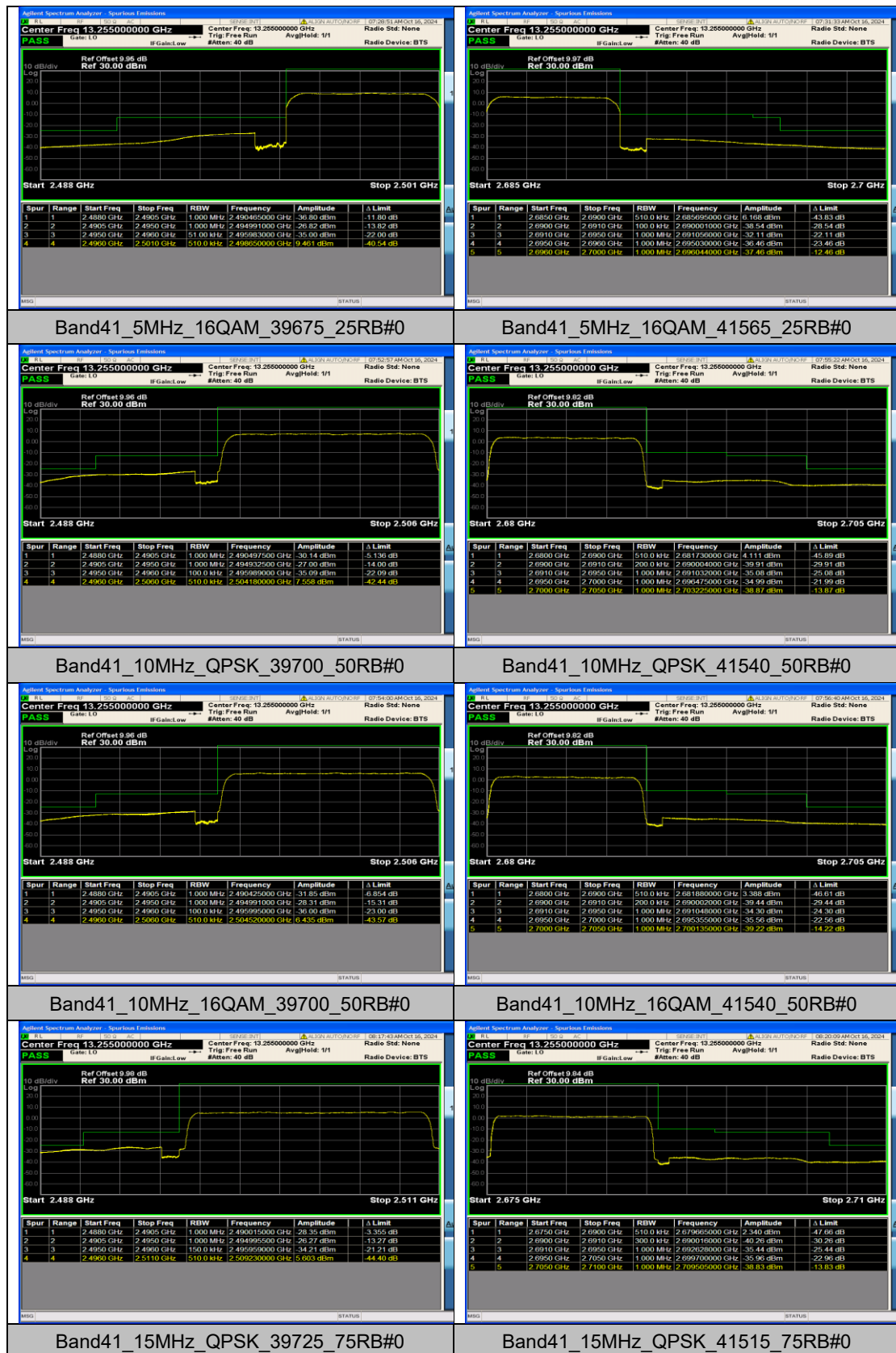
Appendix D: Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band41	5MHz	QPSK	39675	25RB#0	-36.51	PASS
Band41	5MHz	QPSK	41565	25RB#0	-37.15	PASS
Band41	5MHz	16QAM	39675	25RB#0	-36.80	PASS
Band41	5MHz	16QAM	41565	25RB#0	-37.46	PASS
Band41	10MHz	QPSK	39700	50RB#0	-30.14	PASS
Band41	10MHz	QPSK	41540	50RB#0	-38.87	PASS
Band41	10MHz	16QAM	39700	50RB#0	-31.85	PASS
Band41	10MHz	16QAM	41540	50RB#0	-39.22	PASS
Band41	15MHz	QPSK	39725	75RB#0	-28.35	PASS
Band41	15MHz	QPSK	41515	75RB#0	-38.83	PASS
Band41	15MHz	16QAM	39725	75RB#0	-30.34	PASS
Band41	15MHz	16QAM	41515	75RB#0	-39.23	PASS
Band41	20MHz	QPSK	39750	100RB#0	-31.39	PASS
Band41	20MHz	QPSK	41490	100RB#0	-40.34	PASS
Band41	20MHz	16QAM	39750	100RB#0	-32.39	PASS
Band41	20MHz	16QAM	41490	100RB#0	-40.53	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	-73.27	PASS
Band41	5MHz	QPSK	39675	25RB#0	0.15~30	-62.18	PASS
Band41	5MHz	QPSK	39675	25RB#0	30~1000	-61.95	PASS
Band41	5MHz	QPSK	39675	25RB#0	1000~20000	-38.02	PASS
Band41	5MHz	QPSK	39675	25RB#0	20000~27000	-31.05	PASS
Band41	5MHz	QPSK	40620	25RB#0	0.009~0.15	-73.87	PASS
Band41	5MHz	QPSK	40620	25RB#0	0.15~30	-58.69	PASS
Band41	5MHz	QPSK	40620	25RB#0	30~1000	-61.75	PASS
Band41	5MHz	QPSK	40620	25RB#0	1000~20000	-35.76	PASS
Band41	5MHz	QPSK	40620	25RB#0	20000~27000	-31.28	PASS
Band41	5MHz	QPSK	41565	25RB#0	0.009~0.15	-74.71	PASS
Band41	5MHz	QPSK	41565	25RB#0	0.15~30	-61.70	PASS
Band41	5MHz	QPSK	41565	25RB#0	30~1000	-62.19	PASS
Band41	5MHz	QPSK	41565	25RB#0	1000~20000	-32.96	PASS
Band41	5MHz	QPSK	41565	25RB#0	20000~27000	-31.39	PASS
Band41	5MHz	16QAM	39675	25RB#0	0.009~0.15	-73.55	PASS
Band41	5MHz	16QAM	39675	25RB#0	0.15~30	-62.74	PASS
Band41	5MHz	16QAM	39675	25RB#0	30~1000	-61.71	PASS
Band41	5MHz	16QAM	39675	25RB#0	1000~20000	-38.12	PASS
Band41	5MHz	16QAM	39675	25RB#0	20000~27000	-31.12	PASS
Band41	5MHz	16QAM	40620	25RB#0	0.009~0.15	-74.74	PASS
Band41	5MHz	16QAM	40620	25RB#0	0.15~30	-62.90	PASS
Band41	5MHz	16QAM	40620	25RB#0	30~1000	-61.99	PASS
Band41	5MHz	16QAM	40620	25RB#0	1000~20000	-35.84	PASS
Band41	5MHz	16QAM	40620	25RB#0	20000~27000	-31.42	PASS
Band41	5MHz	16QAM	41565	25RB#0	0.009~0.15	-73.69	PASS
Band41	5MHz	16QAM	41565	25RB#0	0.15~30	-63.43	PASS
Band41	5MHz	16QAM	41565	25RB#0	30~1000	-62.05	PASS
Band41	5MHz	16QAM	41565	25RB#0	1000~20000	-34.53	PASS
Band41	5MHz	16QAM	41565	25RB#0	20000~27000	-31.22	PASS
Band41	10MHz	QPSK	39700	50RB#0	0.009~0.15	-74.02	PASS
Band41	10MHz	QPSK	39700	50RB#0	0.15~30	-60.79	PASS
Band41	10MHz	QPSK	39700	50RB#0	30~1000	-61.85	PASS
Band41	10MHz	QPSK	39700	50RB#0	1000~20000	-37.78	PASS
Band41	10MHz	QPSK	39700	50RB#0	20000~27000	-31.11	PASS
Band41	10MHz	QPSK	40620	50RB#0	0.009~0.15	-74.45	PASS

Band41	10MHz	QPSK	40620	50RB#0	0.15~30	-60.87	PASS
Band41	10MHz	QPSK	40620	50RB#0	30~1000	-62.13	PASS
Band41	10MHz	QPSK	40620	50RB#0	1000~20000	-37.60	PASS
Band41	10MHz	QPSK	40620	50RB#0	20000~27000	-31.15	PASS
Band41	10MHz	QPSK	41540	50RB#0	0.009~0.15	-74.97	PASS
Band41	10MHz	QPSK	41540	50RB#0	0.15~30	-59.07	PASS
Band41	10MHz	QPSK	41540	50RB#0	30~1000	-62.08	PASS
Band41	10MHz	QPSK	41540	50RB#0	1000~20000	-37.82	PASS
Band41	10MHz	QPSK	41540	50RB#0	20000~27000	-31.19	PASS
Band41	10MHz	16QAM	39700	50RB#0	0.009~0.15	-72.90	PASS
Band41	10MHz	16QAM	39700	50RB#0	0.15~30	-62.65	PASS
Band41	10MHz	16QAM	39700	50RB#0	30~1000	-62.06	PASS
Band41	10MHz	16QAM	39700	50RB#0	1000~20000	-37.92	PASS
Band41	10MHz	16QAM	39700	50RB#0	20000~27000	-31.41	PASS
Band41	10MHz	16QAM	40620	50RB#0	0.009~0.15	-72.02	PASS
Band41	10MHz	16QAM	40620	50RB#0	0.15~30	-61.55	PASS
Band41	10MHz	16QAM	40620	50RB#0	30~1000	-61.57	PASS
Band41	10MHz	16QAM	40620	50RB#0	1000~20000	-37.85	PASS
Band41	10MHz	16QAM	40620	50RB#0	20000~27000	-31.60	PASS
Band41	10MHz	16QAM	41540	50RB#0	0.009~0.15	-72.67	PASS
Band41	10MHz	16QAM	41540	50RB#0	0.15~30	-61.99	PASS
Band41	10MHz	16QAM	41540	50RB#0	30~1000	-62.11	PASS
Band41	10MHz	16QAM	41540	50RB#0	1000~20000	-37.72	PASS
Band41	10MHz	16QAM	41540	50RB#0	20000~27000	-31.35	PASS
Band41	15MHz	QPSK	39725	75RB#0	0.009~0.15	-71.26	PASS
Band41	15MHz	QPSK	39725	75RB#0	0.15~30	-63.04	PASS
Band41	15MHz	QPSK	39725	75RB#0	30~1000	-61.99	PASS
Band41	15MHz	QPSK	39725	75RB#0	1000~20000	-36.92	PASS
Band41	15MHz	QPSK	39725	75RB#0	20000~27000	-31.39	PASS
Band41	15MHz	QPSK	40620	75RB#0	0.009~0.15	-70.70	PASS
Band41	15MHz	QPSK	40620	75RB#0	0.15~30	-62.92	PASS
Band41	15MHz	QPSK	40620	75RB#0	30~1000	-61.86	PASS
Band41	15MHz	QPSK	40620	75RB#0	1000~20000	-36.76	PASS
Band41	15MHz	QPSK	40620	75RB#0	20000~27000	-31.30	PASS
Band41	15MHz	QPSK	41515	75RB#0	0.009~0.15	-70.56	PASS
Band41	15MHz	QPSK	41515	75RB#0	0.15~30	-62.10	PASS
Band41	15MHz	QPSK	41515	75RB#0	30~1000	-61.75	PASS
Band41	15MHz	QPSK	41515	75RB#0	1000~20000	-38.16	PASS
Band41	15MHz	QPSK	41515	75RB#0	20000~27000	-31.02	PASS
Band41	15MHz	16QAM	39725	75RB#0	0.009~0.15	-75.45	PASS
Band41	15MHz	16QAM	39725	75RB#0	0.15~30	-60.81	PASS
Band41	15MHz	16QAM	39725	75RB#0	30~1000	-62.01	PASS
Band41	15MHz	16QAM	39725	75RB#0	1000~20000	-37.88	PASS

Band41	15MHz	16QAM	39725	75RB#0	20000~27000	-30.63	PASS
Band41	15MHz	16QAM	40620	75RB#0	0.009~0.15	-72.04	PASS
Band41	15MHz	16QAM	40620	75RB#0	0.15~30	-61.98	PASS
Band41	15MHz	16QAM	40620	75RB#0	30~1000	-61.72	PASS
Band41	15MHz	16QAM	40620	75RB#0	1000~20000	-37.78	PASS
Band41	15MHz	16QAM	40620	75RB#0	20000~27000	-31.28	PASS
Band41	15MHz	16QAM	41515	75RB#0	0.009~0.15	-72.14	PASS
Band41	15MHz	16QAM	41515	75RB#0	0.15~30	-62.31	PASS
Band41	15MHz	16QAM	41515	75RB#0	30~1000	-61.84	PASS
Band41	15MHz	16QAM	41515	75RB#0	1000~20000	-38.04	PASS
Band41	15MHz	16QAM	41515	75RB#0	20000~27000	-31.42	PASS
Band41	20MHz	QPSK	39750	100RB#0	0.009~0.15	-73.01	PASS
Band41	20MHz	QPSK	39750	100RB#0	0.15~30	-61.03	PASS
Band41	20MHz	QPSK	39750	100RB#0	30~1000	-61.97	PASS
Band41	20MHz	QPSK	39750	100RB#0	1000~20000	-37.74	PASS
Band41	20MHz	QPSK	39750	100RB#0	20000~27000	-31.37	PASS
Band41	20MHz	QPSK	40620	100RB#0	0.009~0.15	-72.08	PASS
Band41	20MHz	QPSK	40620	100RB#0	0.15~30	-60.61	PASS
Band41	20MHz	QPSK	40620	100RB#0	30~1000	-61.77	PASS
Band41	20MHz	QPSK	40620	100RB#0	1000~20000	-36.99	PASS
Band41	20MHz	QPSK	40620	100RB#0	20000~27000	-31.44	PASS
Band41	20MHz	QPSK	41490	100RB#0	0.009~0.15	-72.52	PASS
Band41	20MHz	QPSK	41490	100RB#0	0.15~30	-59.82	PASS
Band41	20MHz	QPSK	41490	100RB#0	30~1000	-61.95	PASS
Band41	20MHz	QPSK	41490	100RB#0	1000~20000	-37.76	PASS
Band41	20MHz	QPSK	41490	100RB#0	20000~27000	-31.06	PASS
Band41	20MHz	16QAM	39750	100RB#0	0.009~0.15	-72.53	PASS
Band41	20MHz	16QAM	39750	100RB#0	0.15~30	-65.29	PASS
Band41	20MHz	16QAM	39750	100RB#0	30~1000	-61.96	PASS
Band41	20MHz	16QAM	39750	100RB#0	1000~20000	-37.95	PASS
Band41	20MHz	16QAM	39750	100RB#0	20000~27000	-31.13	PASS
Band41	20MHz	16QAM	40620	100RB#0	0.009~0.15	-71.99	PASS
Band41	20MHz	16QAM	40620	100RB#0	0.15~30	-63.90	PASS
Band41	20MHz	16QAM	40620	100RB#0	30~1000	-62.11	PASS
Band41	20MHz	16QAM	40620	100RB#0	1000~20000	-37.80	PASS
Band41	20MHz	16QAM	40620	100RB#0	20000~27000	-31.31	PASS
Band41	20MHz	16QAM	41490	100RB#0	0.009~0.15	-69.84	PASS
Band41	20MHz	16QAM	41490	100RB#0	0.15~30	-62.98	PASS
Band41	20MHz	16QAM	41490	100RB#0	30~1000	-61.90	PASS
Band41	20MHz	16QAM	41490	100RB#0	1000~20000	-37.97	PASS
Band41	20MHz	16QAM	41490	100RB#0	20000~27000	-31.06	PASS

Test Graphs

