

FCC Appendix RF Test Data for LTE Band 4

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

EUT : Smart Phone

Model Number : K21

FCC ID : R38YLCPK21

Report No. : CTA25091901804

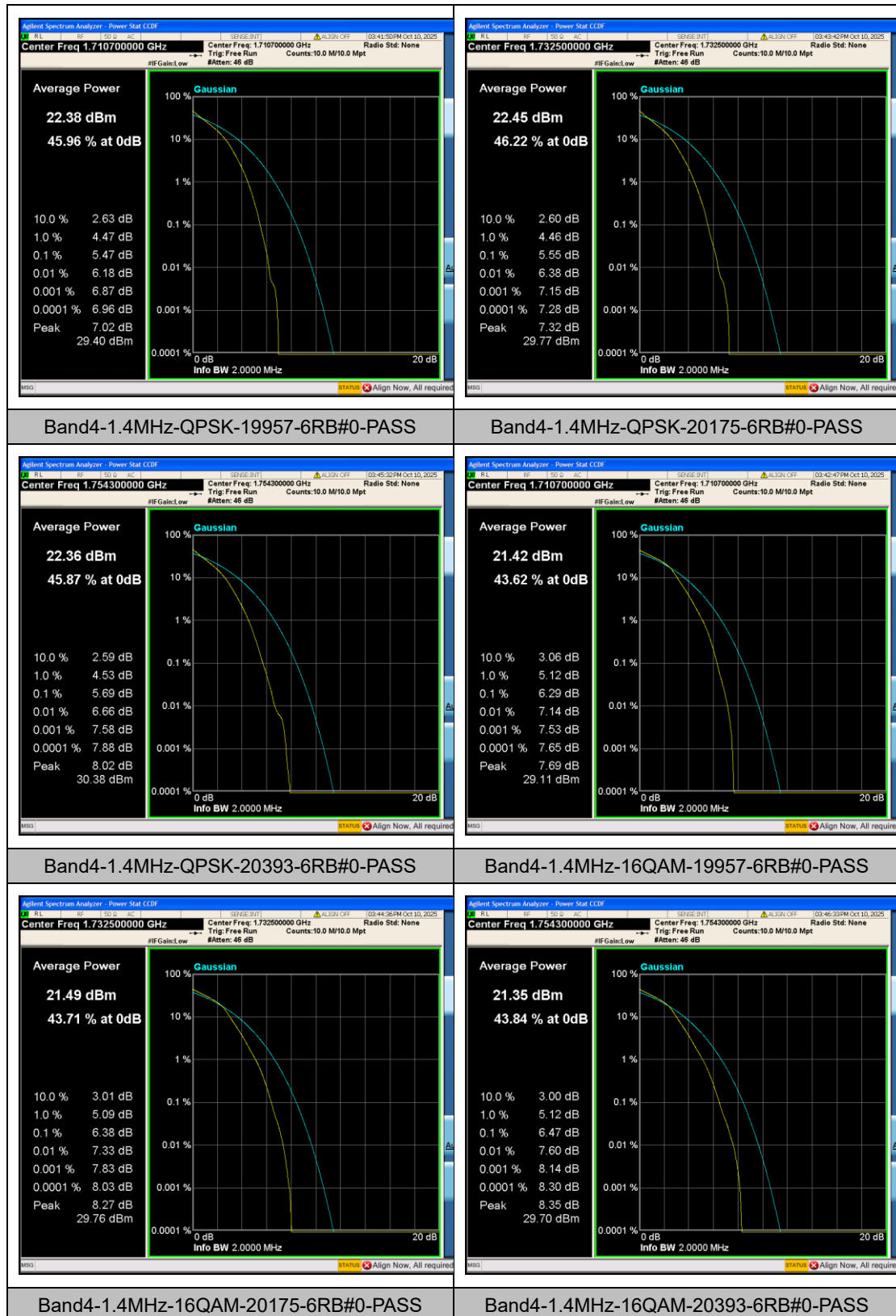
Reviewed By : Eric Wang

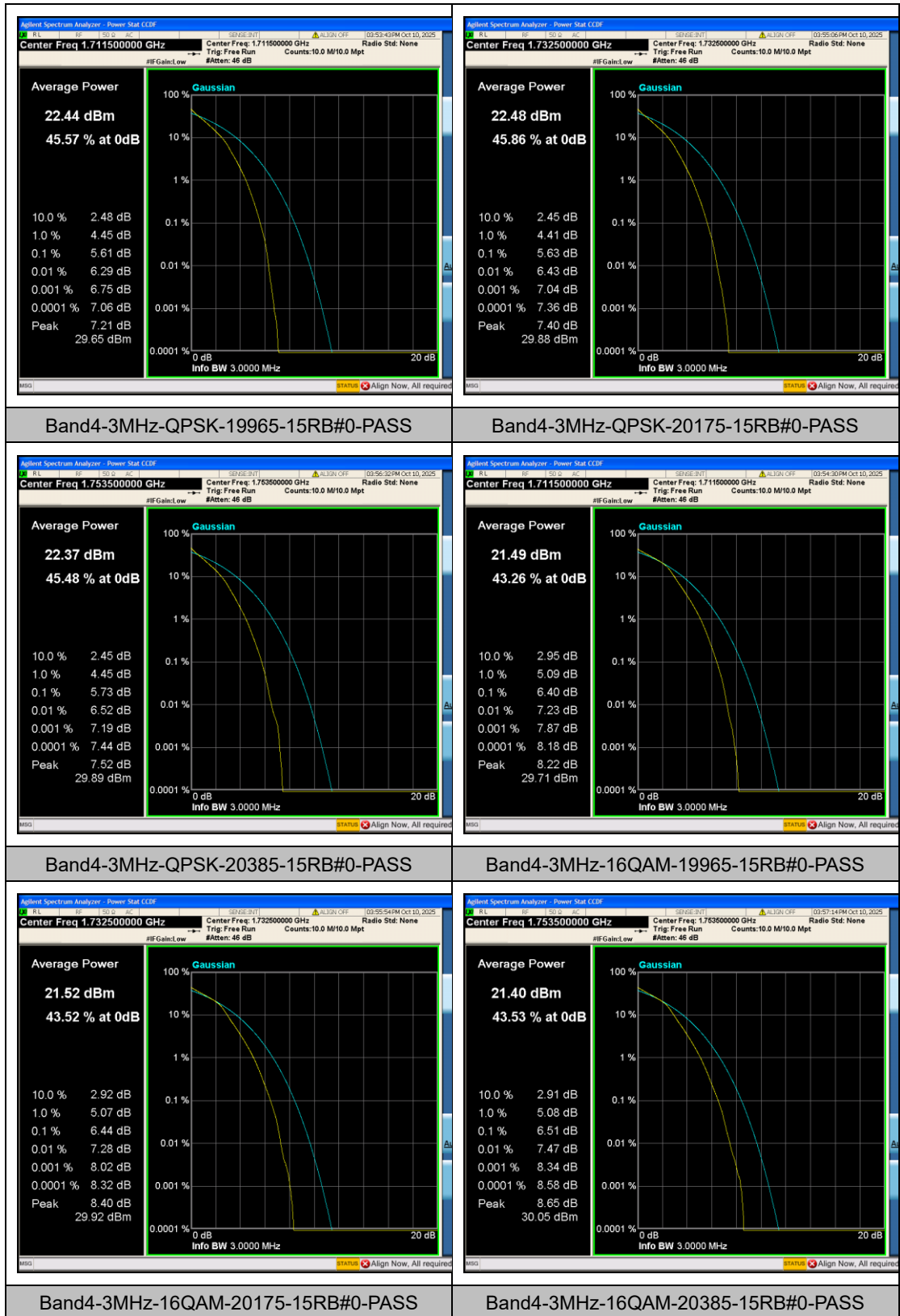
Appendix B: Peak-to-Average Ratio(CCDF)

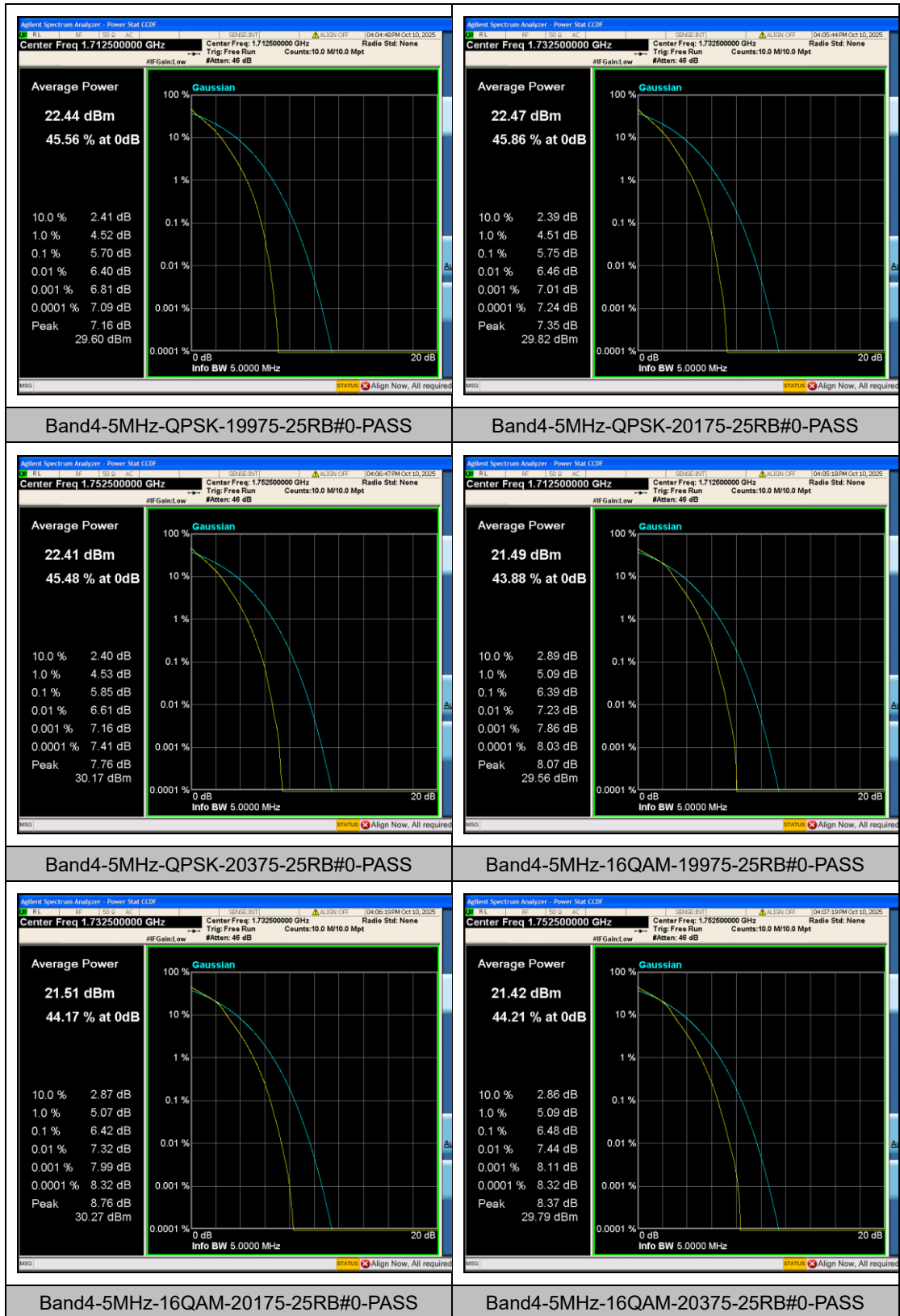
Test Result

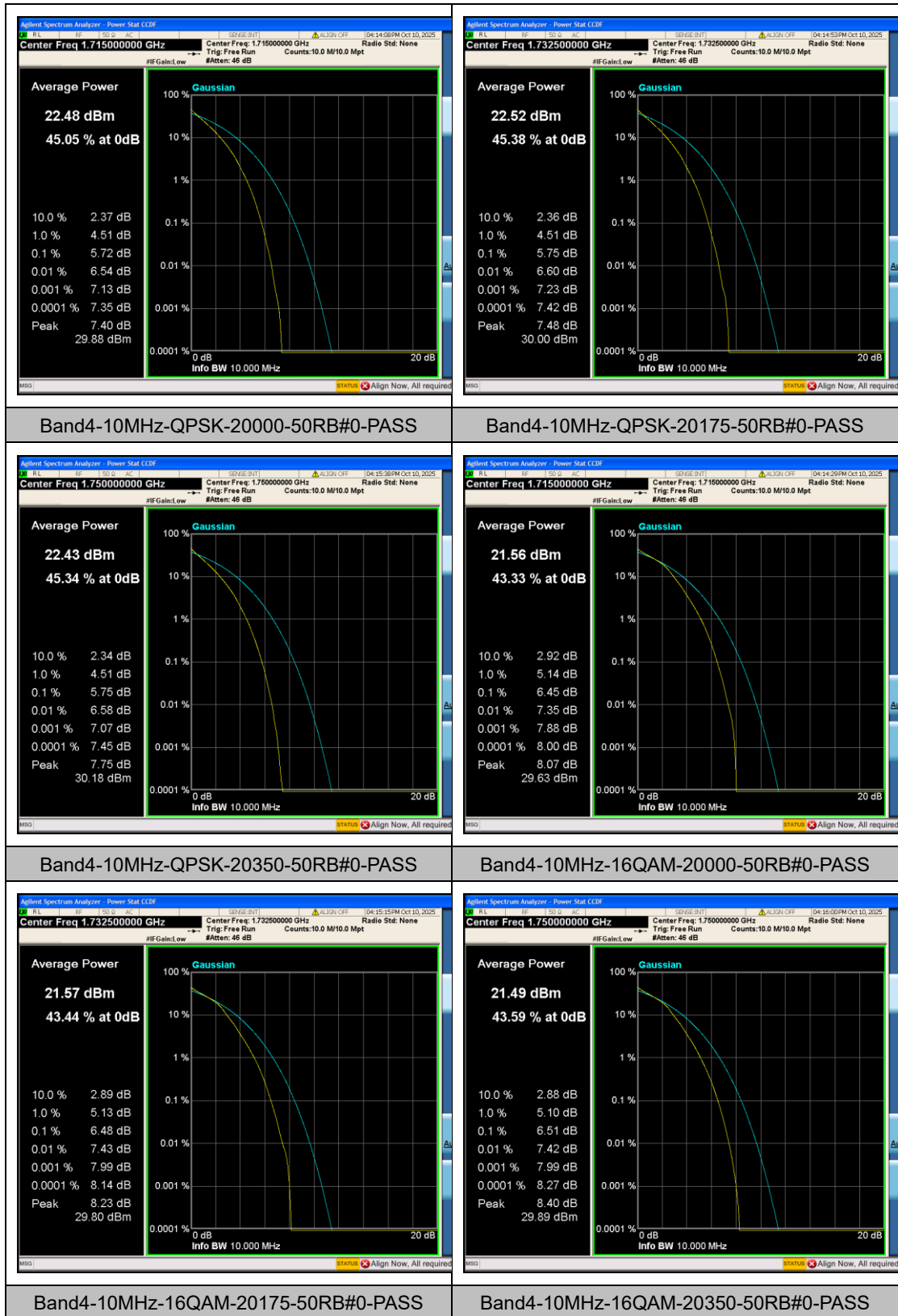
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band4	1.4MHz	QPSK	19957	6RB#0	5.47	13	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	5.55	13	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	5.69	13	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	6.29	13	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	6.38	13	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	6.47	13	PASS
Band4	3MHz	QPSK	19965	15RB#0	5.61	13	PASS
Band4	3MHz	QPSK	20175	15RB#0	5.63	13	PASS
Band4	3MHz	QPSK	20385	15RB#0	5.73	13	PASS
Band4	3MHz	16QAM	19965	15RB#0	6.40	13	PASS
Band4	3MHz	16QAM	20175	15RB#0	6.44	13	PASS
Band4	3MHz	16QAM	20385	15RB#0	6.51	13	PASS
Band4	5MHz	QPSK	19975	25RB#0	5.70	13	PASS
Band4	5MHz	QPSK	20175	25RB#0	5.75	13	PASS
Band4	5MHz	QPSK	20375	25RB#0	5.85	13	PASS
Band4	5MHz	16QAM	19975	25RB#0	6.39	13	PASS
Band4	5MHz	16QAM	20175	25RB#0	6.42	13	PASS
Band4	5MHz	16QAM	20375	25RB#0	6.48	13	PASS
Band4	10MHz	QPSK	20000	50RB#0	5.72	13	PASS
Band4	10MHz	QPSK	20175	50RB#0	5.75	13	PASS
Band4	10MHz	QPSK	20350	50RB#0	5.75	13	PASS
Band4	10MHz	16QAM	20000	50RB#0	6.45	13	PASS
Band4	10MHz	16QAM	20175	50RB#0	6.48	13	PASS
Band4	10MHz	16QAM	20350	50RB#0	6.51	13	PASS
Band4	15MHz	QPSK	20025	75RB#0	6.04	13	PASS
Band4	15MHz	QPSK	20175	75RB#0	6.07	13	PASS
Band4	15MHz	QPSK	20325	75RB#0	6.14	13	PASS
Band4	15MHz	16QAM	20025	75RB#0	6.56	13	PASS
Band4	15MHz	16QAM	20175	75RB#0	6.58	13	PASS
Band4	15MHz	16QAM	20325	75RB#0	6.58	13	PASS
Band4	20MHz	QPSK	20050	100RB#0	5.69	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	5.69	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	5.82	13	PASS
Band4	20MHz	16QAM	20050	100RB#0	6.48	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	6.48	13	PASS
Band4	20MHz	16QAM	20300	100RB#0	6.50	13	PASS

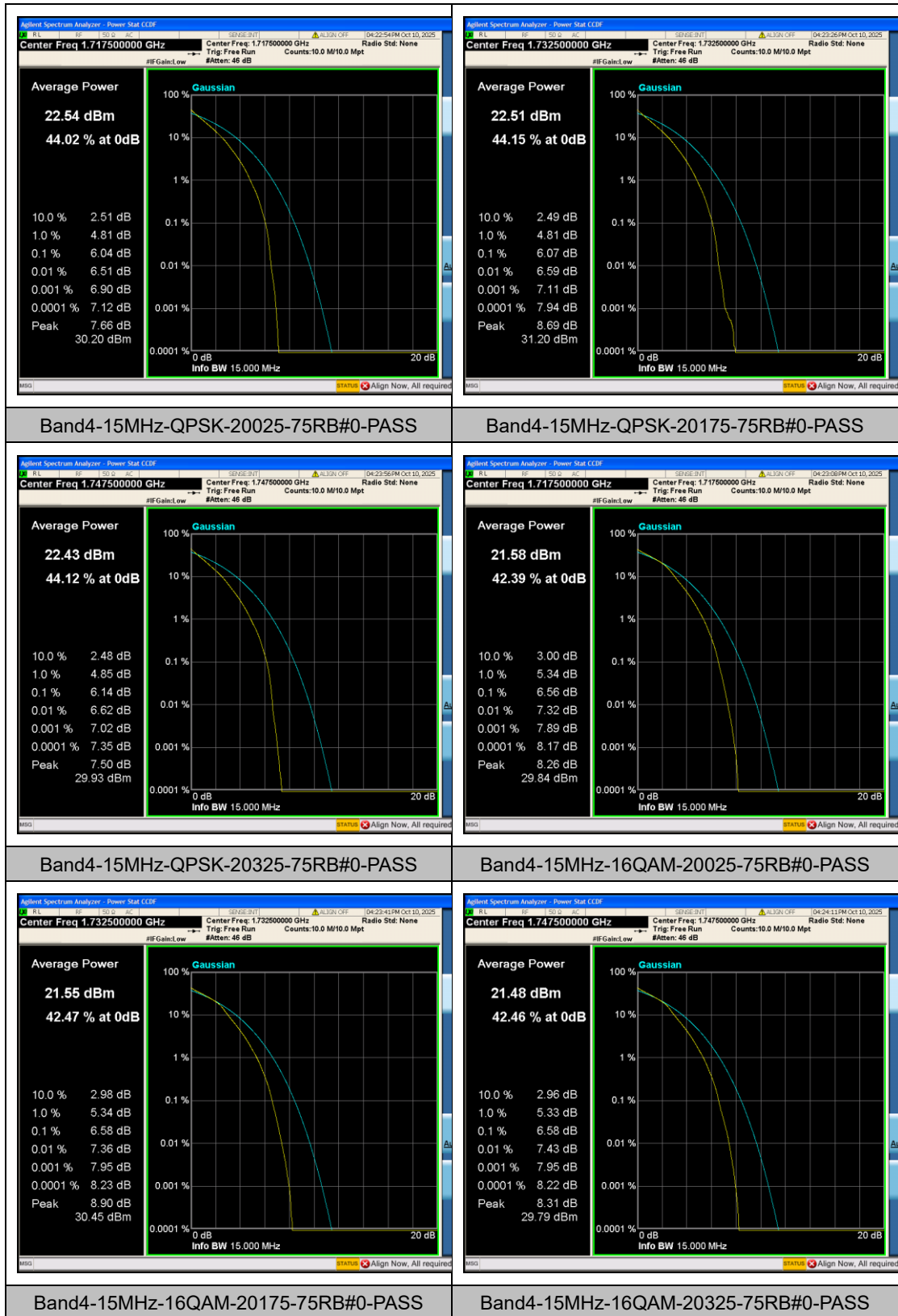
Test Graphs

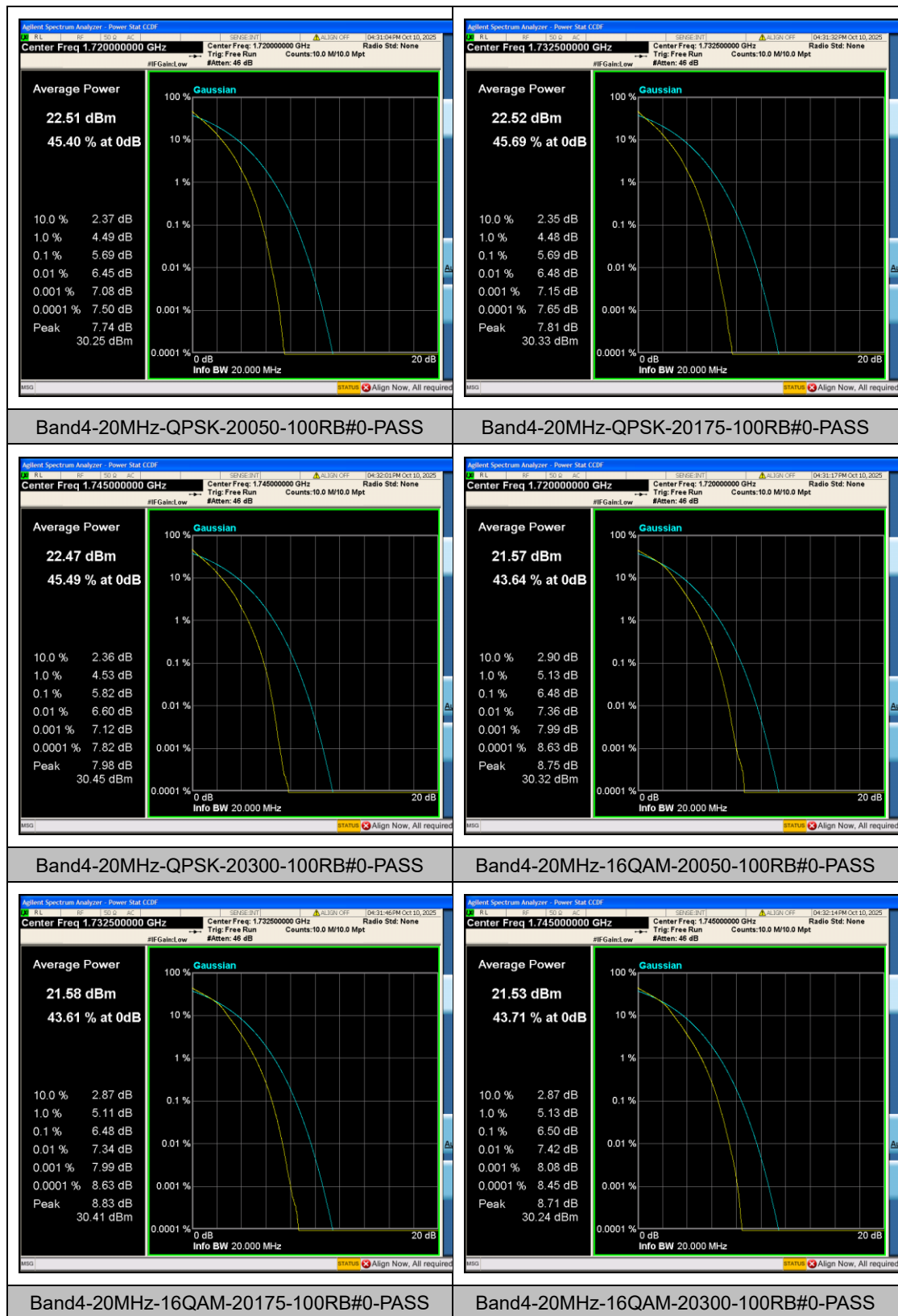












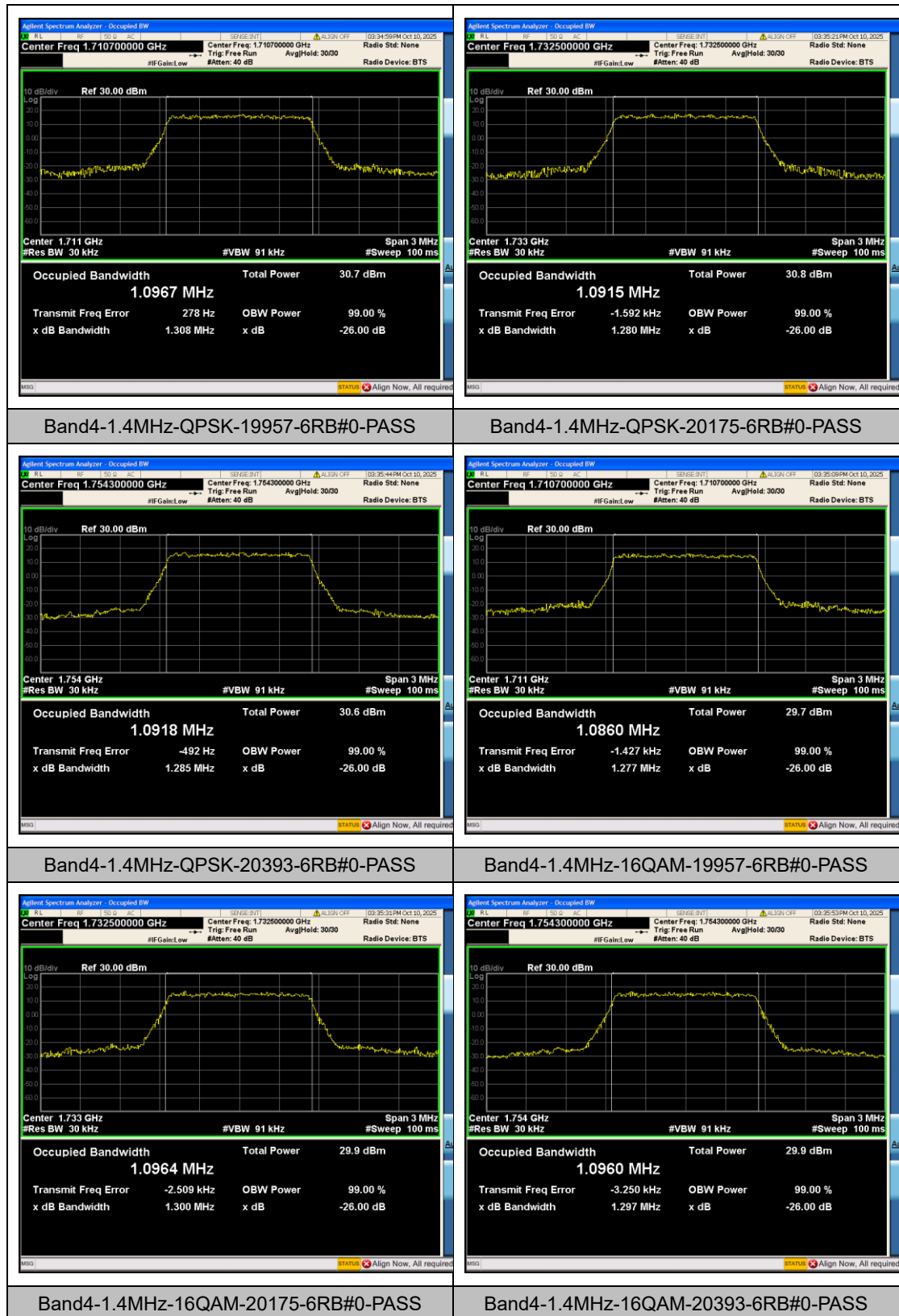
Appendix C: 26dB Bandwidth and Occupied Bandwidth

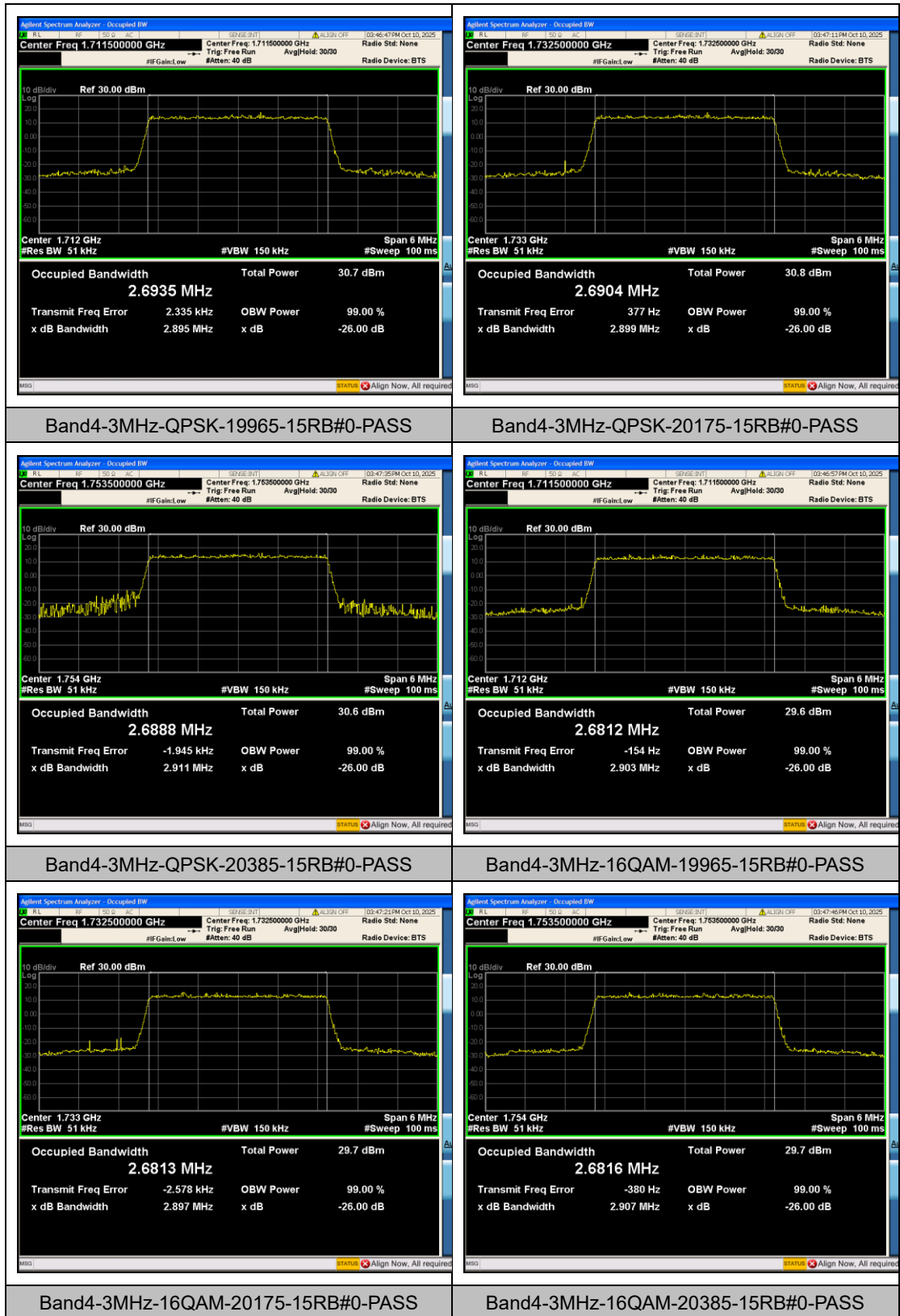
Test Result

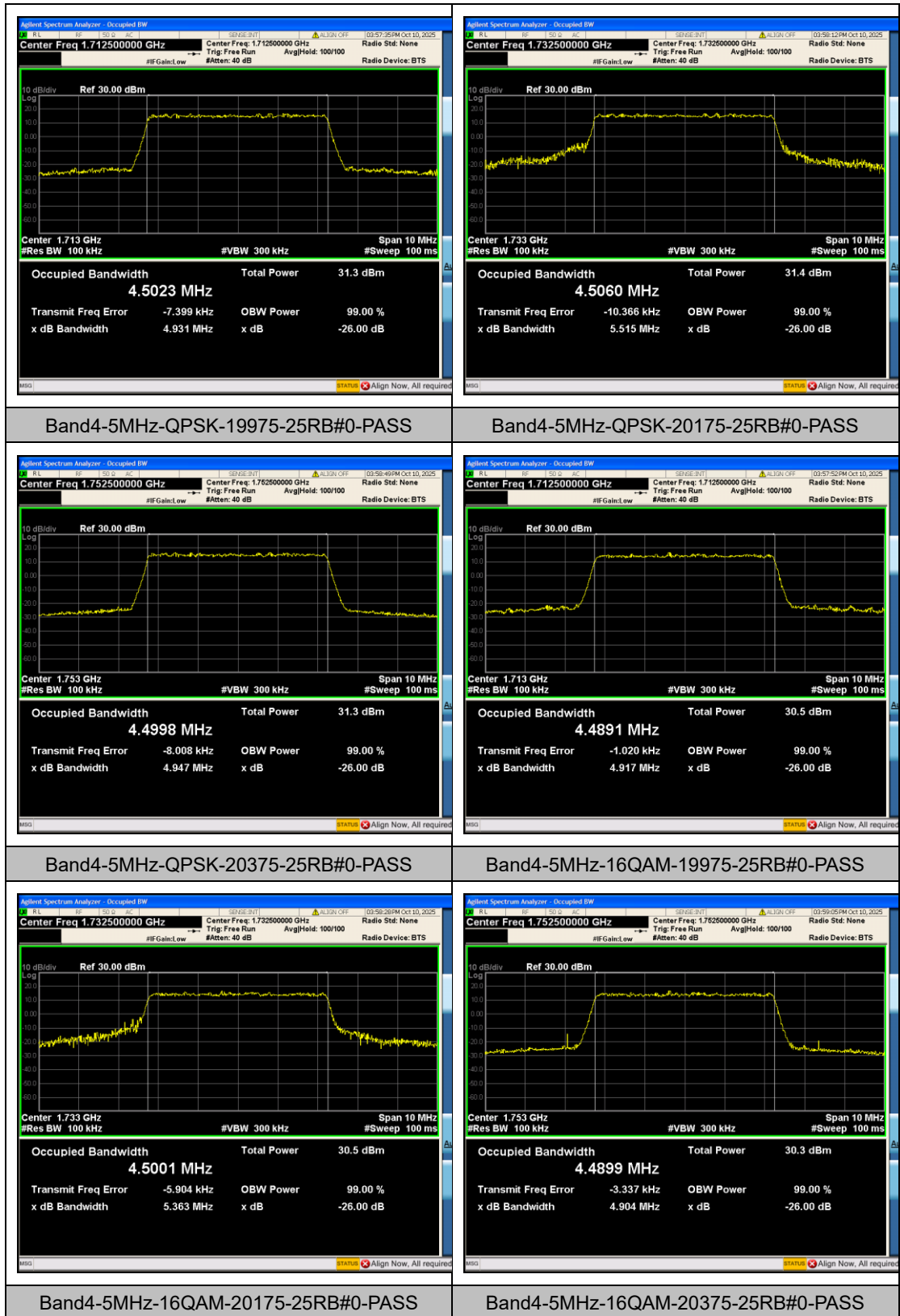
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band4	1.4MHz	QPSK	19957	6RB#0	1.0967	1.308	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.0915	1.280	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.0918	1.285	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.0860	1.277	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.0964	1.300	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.0960	1.297	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.6935	2.895	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.6904	2.899	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.6888	2.911	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.6812	2.903	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.6813	2.897	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.6816	2.907	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.5023	4.931	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.5060	5.515	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.4998	4.947	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.4891	4.917	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.5001	5.363	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.4899	4.904	PASS
Band4	10MHz	QPSK	20000	50RB#0	8.9864	9.803	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.9831	10.19	PASS
Band4	10MHz	QPSK	20350	50RB#0	8.9938	9.790	PASS
Band4	10MHz	16QAM	20000	50RB#0	8.9833	9.767	PASS
Band4	10MHz	16QAM	20175	50RB#0	8.9710	9.766	PASS
Band4	10MHz	16QAM	20350	50RB#0	8.9746	9.778	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.487	14.74	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.497	15.80	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.480	14.74	PASS
Band4	15MHz	16QAM	20025	75RB#0	13.473	14.64	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.497	15.43	PASS
Band4	15MHz	16QAM	20325	75RB#0	13.484	14.64	PASS
Band4	20MHz	QPSK	20050	100RB#0	17.946	19.39	PASS
Band4	20MHz	QPSK	20175	100RB#0	17.957	19.35	PASS
Band4	20MHz	QPSK	20300	100RB#0	17.979	19.58	PASS
Band4	20MHz	16QAM	20050	100RB#0	17.957	19.42	PASS

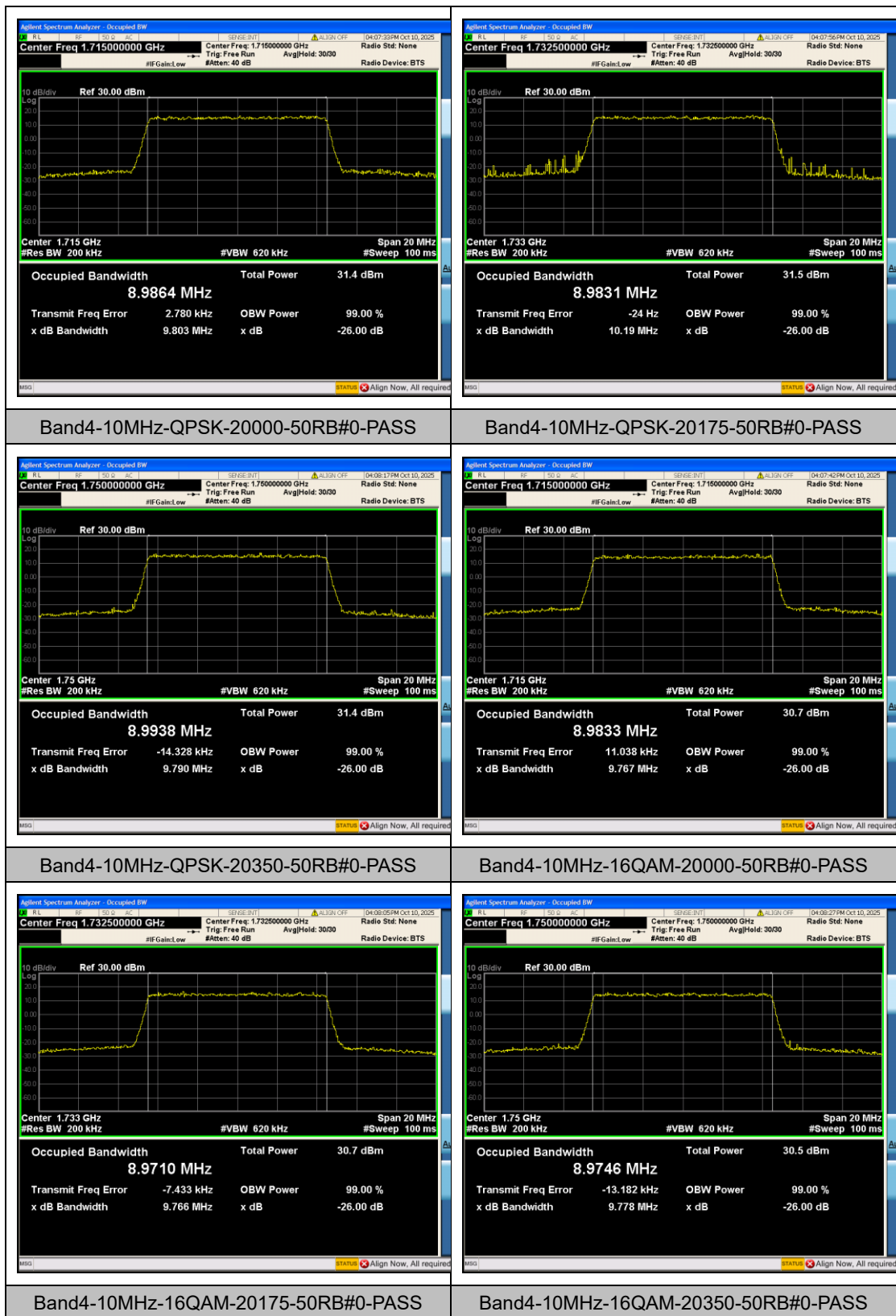
Band4	20MHz	16QAM	20175	100RB#0	17.966	19.33	PASS
Band4	20MHz	16QAM	20300	100RB#0	17.964	19.37	PASS

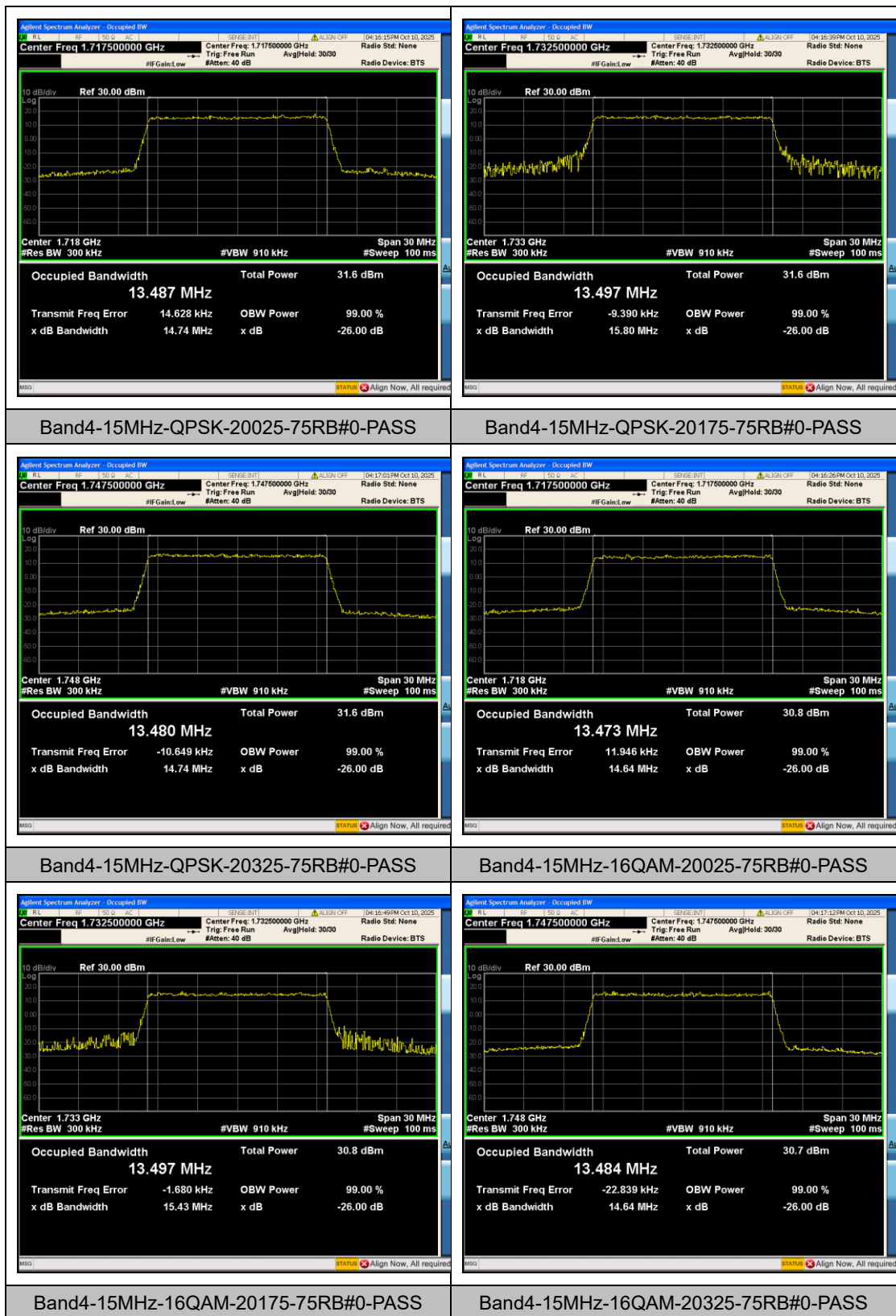
Test Graphs

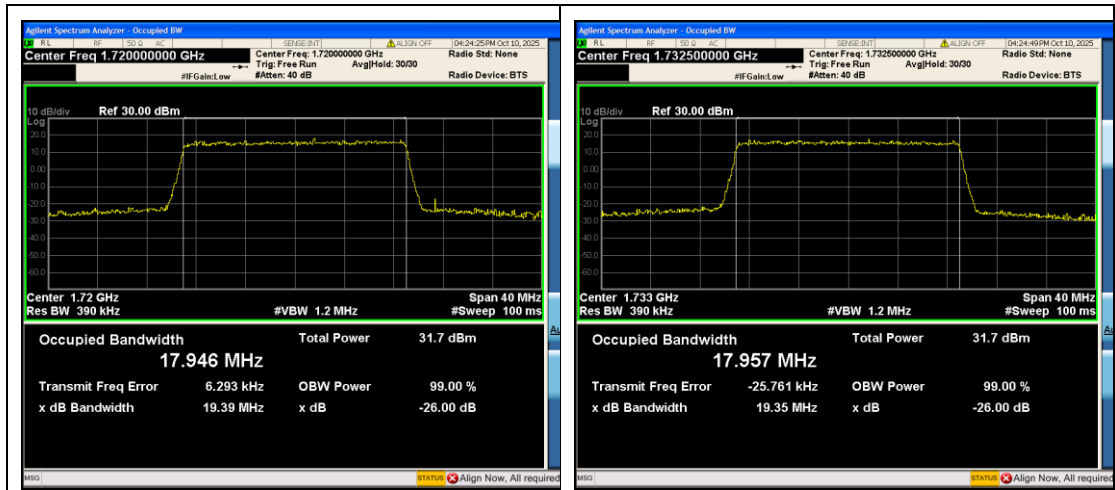












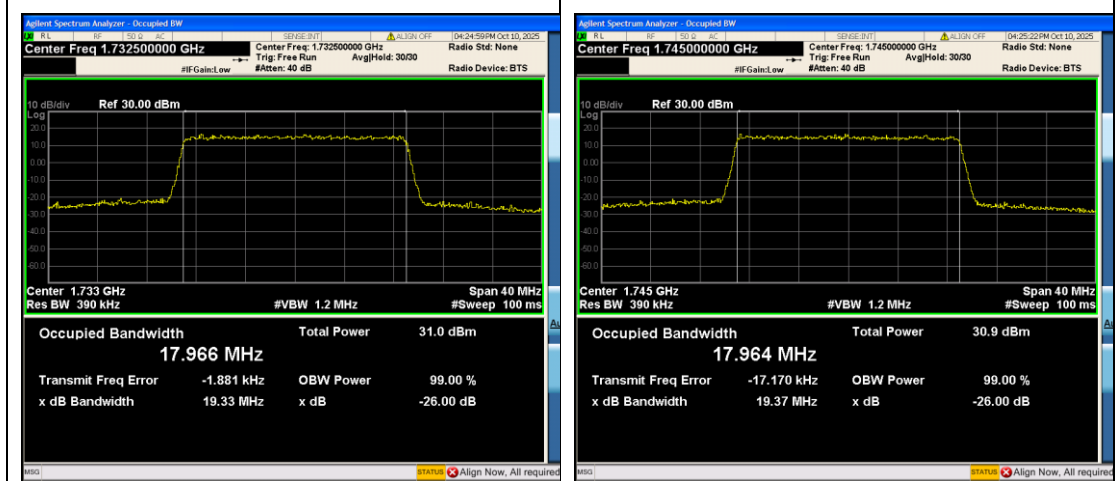
Band4-20MHz-QPSK-20050-100RB#0-PASS

Band4-20MHz-QPSK-20175-100RB#0-PASS



Band4-20MHz-QPSK-20300-100RB#0-PASS

Band4-20MHz-16QAM-20050-100RB#0-PASS



Band4-20MHz-16QAM-20175-100RB#0-PASS

Band4-20MHz-16QAM-20300-100RB#0-PASS

Appendix D: Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band4	1.4MHz	QPSK	19957	6RB#0	-27.43	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	-29.27	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	-28.84	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	-28.61	PASS
Band4	3MHz	QPSK	19965	15RB#0	-26.05	PASS
Band4	3MHz	QPSK	20385	15RB#0	-27.39	PASS
Band4	3MHz	16QAM	19965	15RB#0	-25.15	PASS
Band4	3MHz	16QAM	20385	15RB#0	-26.09	PASS
Band4	5MHz	QPSK	19975	25RB#0	-27.11	PASS
Band4	5MHz	QPSK	20375	25RB#0	-28.88	PASS
Band4	5MHz	16QAM	19975	25RB#0	-26.04	PASS
Band4	5MHz	16QAM	20375	25RB#0	-27.79	PASS
Band4	10MHz	QPSK	20000	50RB#0	-28.95	PASS
Band4	10MHz	QPSK	20350	50RB#0	-30.82	PASS
Band4	10MHz	16QAM	20000	50RB#0	-28.29	PASS
Band4	10MHz	16QAM	20350	50RB#0	-30.07	PASS
Band4	15MHz	QPSK	20025	75RB#0	-29.67	PASS
Band4	15MHz	QPSK	20325	75RB#0	-32.18	PASS
Band4	15MHz	16QAM	20025	75RB#0	-28.92	PASS
Band4	15MHz	16QAM	20325	75RB#0	-31.18	PASS
Band4	20MHz	QPSK	20050	100RB#0	-30.73	PASS
Band4	20MHz	QPSK	20300	100RB#0	-32.93	PASS
Band4	20MHz	16QAM	20050	100RB#0	-30.14	PASS
Band4	20MHz	16QAM	20300	100RB#0	-32.41	PASS