

FCC LTE Band Test Data

FCC ID : 2BG5S-CLM920HE9NA

Company: : Shanghai Yuge information technology Co., Ltd.

EUT : 4G LTE Wireless Communication Module

Model Number : CLM920 HE9 NA

Reviewed By : Eric Wang

Appendix A: Conducted Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	23.18	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	22.95	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	22.89	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	22.91	PASS
Band5	1.4MHz	QPSK	20407	3RB#1	22.93	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	22.90	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	21.88	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	23.21	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	23.00	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	22.90	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	22.93	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	22.92	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	22.80	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	21.94	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	23.29	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	23.20	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	23.30	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	23.25	PASS
Band5	1.4MHz	QPSK	20643	3RB#1	23.24	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	23.14	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	22.34	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	22.05	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	21.94	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	21.90	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	21.76	PASS
Band5	1.4MHz	16QAM	20407	3RB#1	21.72	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	21.69	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	21.06	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	22.05	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	22.01	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	21.82	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	21.79	PASS
Band5	1.4MHz	16QAM	20525	3RB#1	21.76	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	21.71	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	21.07	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	22.25	PASS

Band5	1.4MHz	16QAM	20643	1RB#2	22.36	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	22.36	PASS
Band5	1.4MHz	16QAM	20643	3RB#0	22.19	PASS
Band5	1.4MHz	16QAM	20643	3RB#1	22.14	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	22.21	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	21.42	PASS
Band5	3MHz	QPSK	20415	1RB#0	22.47	PASS
Band5	3MHz	QPSK	20415	1RB#8	22.68	PASS
Band5	3MHz	QPSK	20415	1RB#14	22.71	PASS
Band5	3MHz	QPSK	20415	8RB#0	21.61	PASS
Band5	3MHz	QPSK	20415	8RB#4	21.62	PASS
Band5	3MHz	QPSK	20415	8RB#7	21.80	PASS
Band5	3MHz	QPSK	20415	15RB#0	21.65	PASS
Band5	3MHz	QPSK	20525	1RB#0	22.71	PASS
Band5	3MHz	QPSK	20525	1RB#8	22.47	PASS
Band5	3MHz	QPSK	20525	1RB#14	22.32	PASS
Band5	3MHz	QPSK	20525	8RB#0	21.51	PASS
Band5	3MHz	QPSK	20525	8RB#4	21.54	PASS
Band5	3MHz	QPSK	20525	8RB#7	21.51	PASS
Band5	3MHz	QPSK	20525	15RB#0	21.51	PASS
Band5	3MHz	QPSK	20635	1RB#0	22.99	PASS
Band5	3MHz	QPSK	20635	1RB#8	23.07	PASS
Band5	3MHz	QPSK	20635	1RB#14	22.94	PASS
Band5	3MHz	QPSK	20635	8RB#0	22.01	PASS
Band5	3MHz	QPSK	20635	8RB#4	22.00	PASS
Band5	3MHz	QPSK	20635	8RB#7	22.05	PASS
Band5	3MHz	QPSK	20635	15RB#0	22.06	PASS
Band5	3MHz	16QAM	20415	1RB#0	21.50	PASS
Band5	3MHz	16QAM	20415	1RB#8	21.78	PASS
Band5	3MHz	16QAM	20415	1RB#14	21.82	PASS
Band5	3MHz	16QAM	20415	8RB#0	20.70	PASS
Band5	3MHz	16QAM	20415	8RB#4	20.69	PASS
Band5	3MHz	16QAM	20415	8RB#7	20.94	PASS
Band5	3MHz	16QAM	20415	15RB#0	20.78	PASS
Band5	3MHz	16QAM	20525	1RB#0	21.59	PASS
Band5	3MHz	16QAM	20525	1RB#8	21.55	PASS
Band5	3MHz	16QAM	20525	1RB#14	21.33	PASS
Band5	3MHz	16QAM	20525	8RB#0	20.69	PASS
Band5	3MHz	16QAM	20525	8RB#4	20.68	PASS
Band5	3MHz	16QAM	20525	8RB#7	20.60	PASS
Band5	3MHz	16QAM	20525	15RB#0	20.59	PASS
Band5	3MHz	16QAM	20635	1RB#0	21.81	PASS
Band5	3MHz	16QAM	20635	1RB#8	22.16	PASS

Band5	3MHz	16QAM	20635	1RB#14	22.16	PASS
Band5	3MHz	16QAM	20635	8RB#0	21.14	PASS
Band5	3MHz	16QAM	20635	8RB#4	21.12	PASS
Band5	3MHz	16QAM	20635	8RB#7	21.19	PASS
Band5	3MHz	16QAM	20635	15RB#0	21.16	PASS
Band5	5MHz	QPSK	20425	1RB#0	22.73	PASS
Band5	5MHz	QPSK	20425	1RB#12	22.92	PASS
Band5	5MHz	QPSK	20425	1RB#24	23.47	PASS
Band5	5MHz	QPSK	20425	12RB#0	21.72	PASS
Band5	5MHz	QPSK	20425	12RB#6	21.72	PASS
Band5	5MHz	QPSK	20425	12RB#13	22.10	PASS
Band5	5MHz	QPSK	20425	25RB#0	21.82	PASS
Band5	5MHz	QPSK	20525	1RB#0	22.81	PASS
Band5	5MHz	QPSK	20525	1RB#12	22.51	PASS
Band5	5MHz	QPSK	20525	1RB#24	22.42	PASS
Band5	5MHz	QPSK	20525	12RB#0	21.53	PASS
Band5	5MHz	QPSK	20525	12RB#6	21.59	PASS
Band5	5MHz	QPSK	20525	12RB#13	21.40	PASS
Band5	5MHz	QPSK	20525	25RB#0	21.52	PASS
Band5	5MHz	QPSK	20625	1RB#0	23.00	PASS
Band5	5MHz	QPSK	20625	1RB#12	23.04	PASS
Band5	5MHz	QPSK	20625	1RB#24	23.20	PASS
Band5	5MHz	QPSK	20625	12RB#0	21.64	PASS
Band5	5MHz	QPSK	20625	12RB#6	21.62	PASS
Band5	5MHz	QPSK	20625	12RB#13	22.06	PASS
Band5	5MHz	QPSK	20625	25RB#0	21.85	PASS
Band5	5MHz	16QAM	20425	1RB#0	21.61	PASS
Band5	5MHz	16QAM	20425	1RB#12	21.93	PASS
Band5	5MHz	16QAM	20425	1RB#24	22.41	PASS
Band5	5MHz	16QAM	20425	12RB#0	20.75	PASS
Band5	5MHz	16QAM	20425	12RB#6	20.75	PASS
Band5	5MHz	16QAM	20425	12RB#13	21.19	PASS
Band5	5MHz	16QAM	20425	25RB#0	20.92	PASS
Band5	5MHz	16QAM	20525	1RB#0	21.88	PASS
Band5	5MHz	16QAM	20525	1RB#12	21.65	PASS
Band5	5MHz	16QAM	20525	1RB#24	21.42	PASS
Band5	5MHz	16QAM	20525	12RB#0	20.75	PASS
Band5	5MHz	16QAM	20525	12RB#6	20.77	PASS
Band5	5MHz	16QAM	20525	12RB#13	20.50	PASS
Band5	5MHz	16QAM	20525	25RB#0	20.55	PASS
Band5	5MHz	16QAM	20625	1RB#0	21.68	PASS
Band5	5MHz	16QAM	20625	1RB#12	22.04	PASS
Band5	5MHz	16QAM	20625	1RB#24	22.20	PASS

Band5	5MHz	16QAM	20625	12RB#0	20.66	PASS
Band5	5MHz	16QAM	20625	12RB#6	20.73	PASS
Band5	5MHz	16QAM	20625	12RB#13	21.15	PASS
Band5	5MHz	16QAM	20625	25RB#0	20.95	PASS
Band5	10MHz	QPSK	20450	1RB#0	22.86	PASS
Band5	10MHz	QPSK	20450	1RB#24	23.46	PASS
Band5	10MHz	QPSK	20450	1RB#49	22.91	PASS
Band5	10MHz	QPSK	20450	25RB#0	21.79	PASS
Band5	10MHz	QPSK	20450	25RB#12	21.79	PASS
Band5	10MHz	QPSK	20450	25RB#25	22.18	PASS
Band5	10MHz	QPSK	20450	50RB#0	22.09	PASS
Band5	10MHz	QPSK	20525	1RB#0	23.43	PASS
Band5	10MHz	QPSK	20525	1RB#24	22.56	PASS
Band5	10MHz	QPSK	20525	1RB#49	22.48	PASS
Band5	10MHz	QPSK	20525	25RB#0	21.52	PASS
Band5	10MHz	QPSK	20525	25RB#12	21.61	PASS
Band5	10MHz	QPSK	20525	25RB#25	21.32	PASS
Band5	10MHz	QPSK	20525	50RB#0	21.79	PASS
Band5	10MHz	QPSK	20600	1RB#0	22.49	PASS
Band5	10MHz	QPSK	20600	1RB#24	22.71	PASS
Band5	10MHz	QPSK	20600	1RB#49	23.18	PASS
Band5	10MHz	QPSK	20600	25RB#0	21.16	PASS
Band5	10MHz	QPSK	20600	25RB#12	21.15	PASS
Band5	10MHz	QPSK	20600	25RB#25	21.71	PASS
Band5	10MHz	QPSK	20600	50RB#0	21.88	PASS
Band5	10MHz	16QAM	20450	1RB#0	21.56	PASS
Band5	10MHz	16QAM	20450	1RB#24	22.36	PASS
Band5	10MHz	16QAM	20450	1RB#49	21.80	PASS
Band5	10MHz	16QAM	20450	25RB#0	20.89	PASS
Band5	10MHz	16QAM	20450	25RB#12	20.89	PASS
Band5	10MHz	16QAM	20450	25RB#25	21.32	PASS
Band5	10MHz	16QAM	20525	1RB#0	22.21	PASS
Band5	10MHz	16QAM	20525	1RB#24	21.36	PASS
Band5	10MHz	16QAM	20525	1RB#49	21.16	PASS
Band5	10MHz	16QAM	20525	25RB#0	20.68	PASS
Band5	10MHz	16QAM	20525	25RB#12	20.71	PASS
Band5	10MHz	16QAM	20525	25RB#25	20.39	PASS
Band5	10MHz	16QAM	20600	1RB#0	21.27	PASS
Band5	10MHz	16QAM	20600	1RB#24	21.61	PASS
Band5	10MHz	16QAM	20600	1RB#49	22.19	PASS
Band5	10MHz	16QAM	20600	25RB#0	20.17	PASS
Band5	10MHz	16QAM	20600	25RB#12	20.16	PASS
Band5	10MHz	16QAM	20600	25RB#25	20.71	PASS

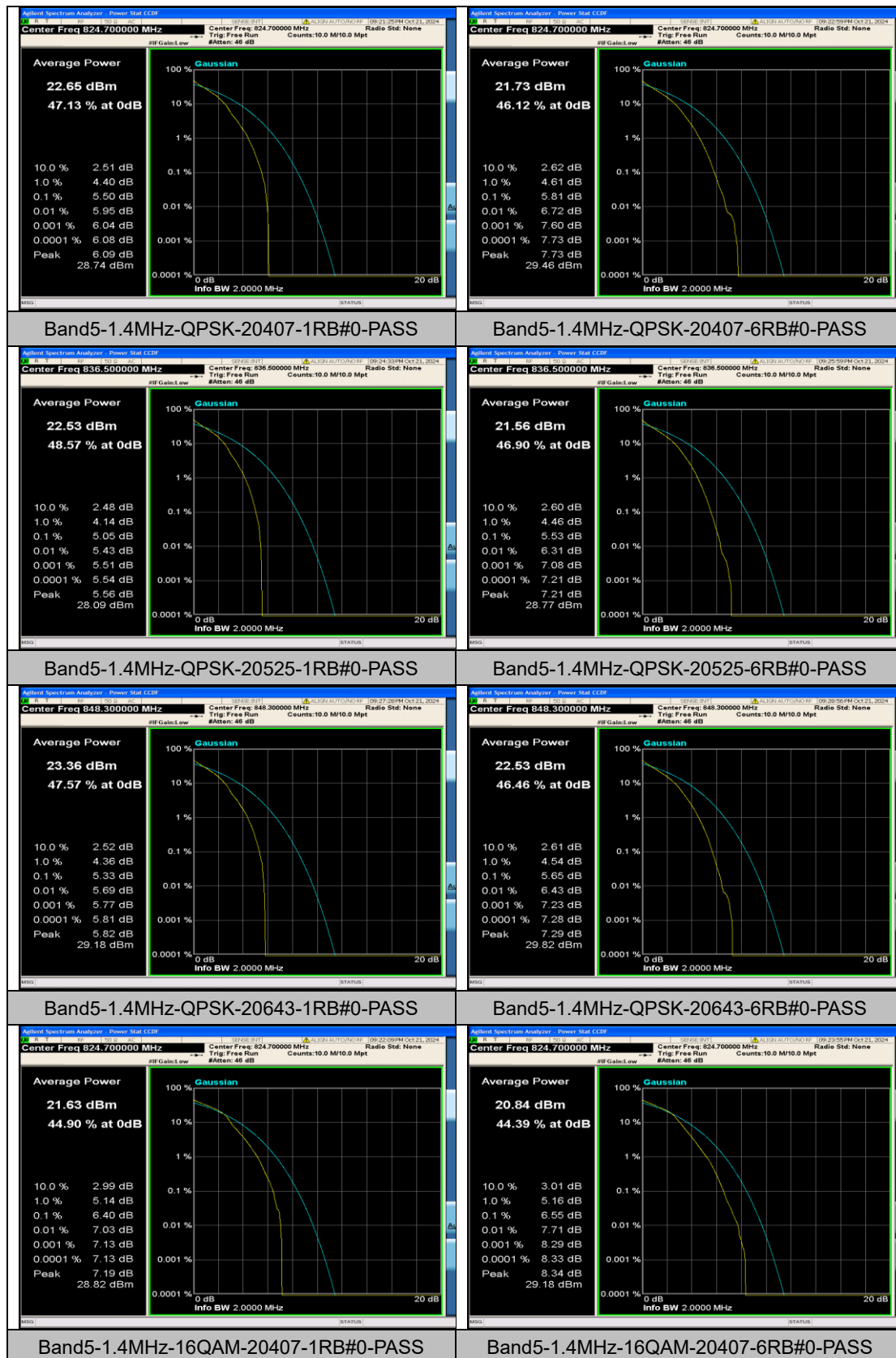
Appendix B: Peak-to-Average Ratio(CCDF)

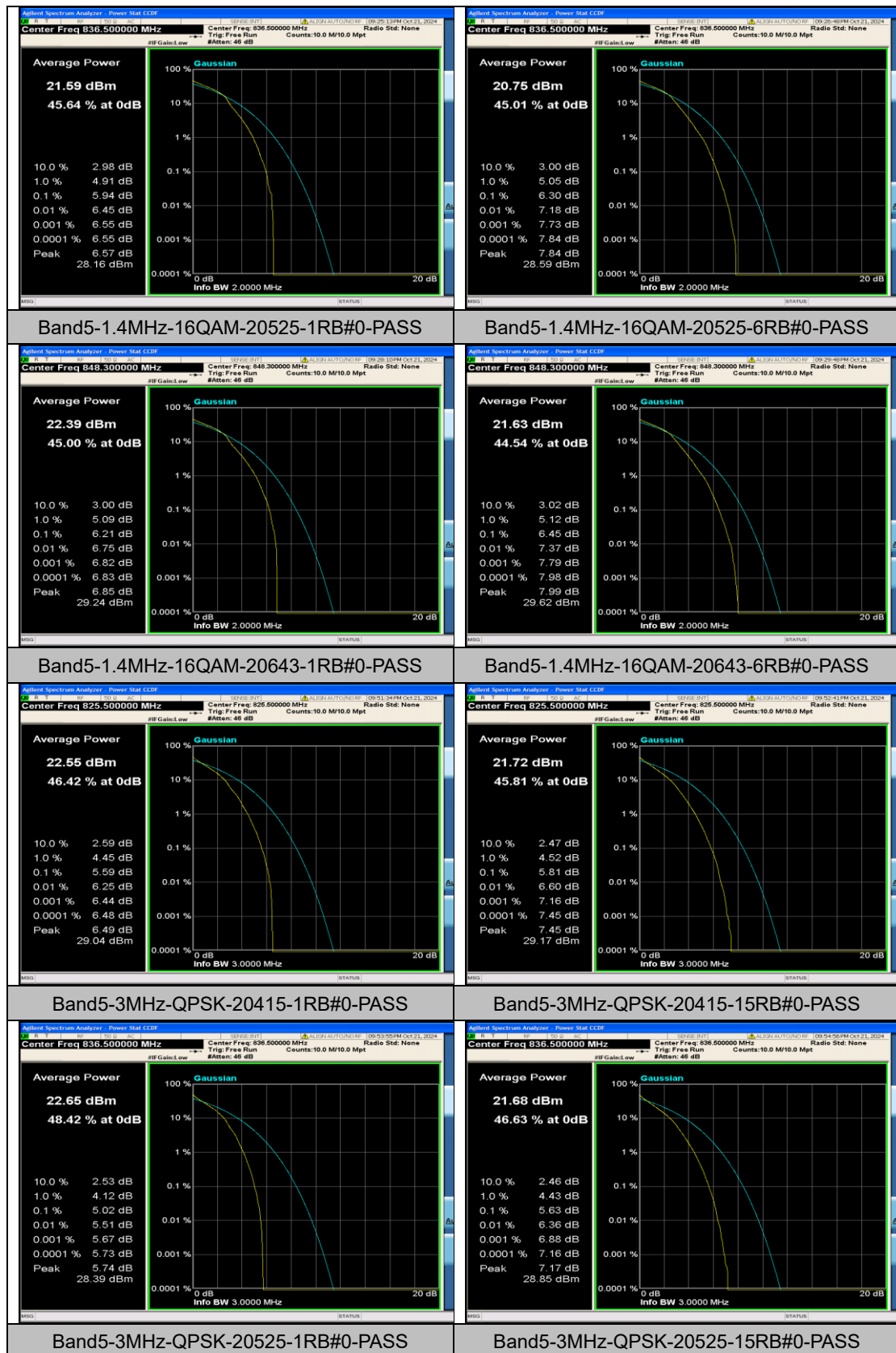
Test Result

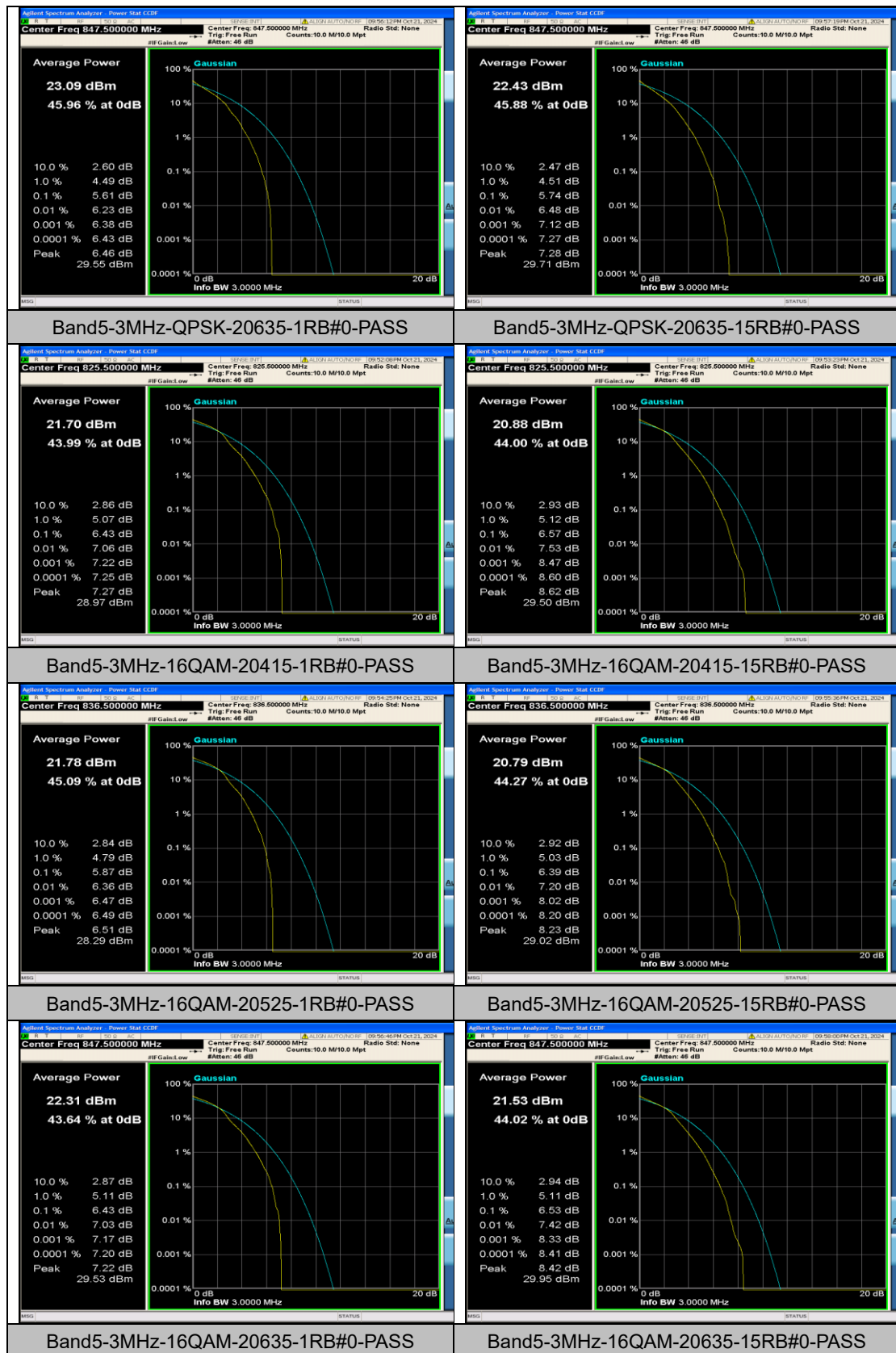
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	5.50	13	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	5.81	13	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	5.05	13	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	5.53	13	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	5.33	13	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	5.65	13	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	6.40	13	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	6.55	13	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	5.94	13	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	6.30	13	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	6.21	13	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	6.45	13	PASS
Band5	3MHz	QPSK	20415	1RB#0	5.59	13	PASS
Band5	3MHz	QPSK	20415	15RB#0	5.81	13	PASS
Band5	3MHz	QPSK	20525	1RB#0	5.02	13	PASS
Band5	3MHz	QPSK	20525	15RB#0	5.63	13	PASS
Band5	3MHz	QPSK	20635	1RB#0	5.61	13	PASS
Band5	3MHz	QPSK	20635	15RB#0	5.74	13	PASS
Band5	3MHz	16QAM	20415	1RB#0	6.43	13	PASS
Band5	3MHz	16QAM	20415	15RB#0	6.57	13	PASS
Band5	3MHz	16QAM	20525	1RB#0	5.87	13	PASS
Band5	3MHz	16QAM	20525	15RB#0	6.39	13	PASS
Band5	3MHz	16QAM	20635	1RB#0	6.43	13	PASS
Band5	3MHz	16QAM	20635	15RB#0	6.53	13	PASS
Band5	5MHz	QPSK	20425	1RB#0	5.60	13	PASS
Band5	5MHz	QPSK	20425	25RB#0	5.80	13	PASS
Band5	5MHz	QPSK	20525	1RB#0	4.96	13	PASS
Band5	5MHz	QPSK	20525	25RB#0	5.64	13	PASS
Band5	5MHz	QPSK	20625	1RB#0	5.66	13	PASS
Band5	5MHz	QPSK	20625	25RB#0	5.78	13	PASS
Band5	5MHz	16QAM	20425	1RB#0	6.01	13	PASS
Band5	5MHz	16QAM	20425	25RB#0	6.42	13	PASS
Band5	5MHz	16QAM	20525	1RB#0	5.59	13	PASS
Band5	5MHz	16QAM	20525	25RB#0	6.29	13	PASS
Band5	5MHz	16QAM	20625	1RB#0	6.08	13	PASS

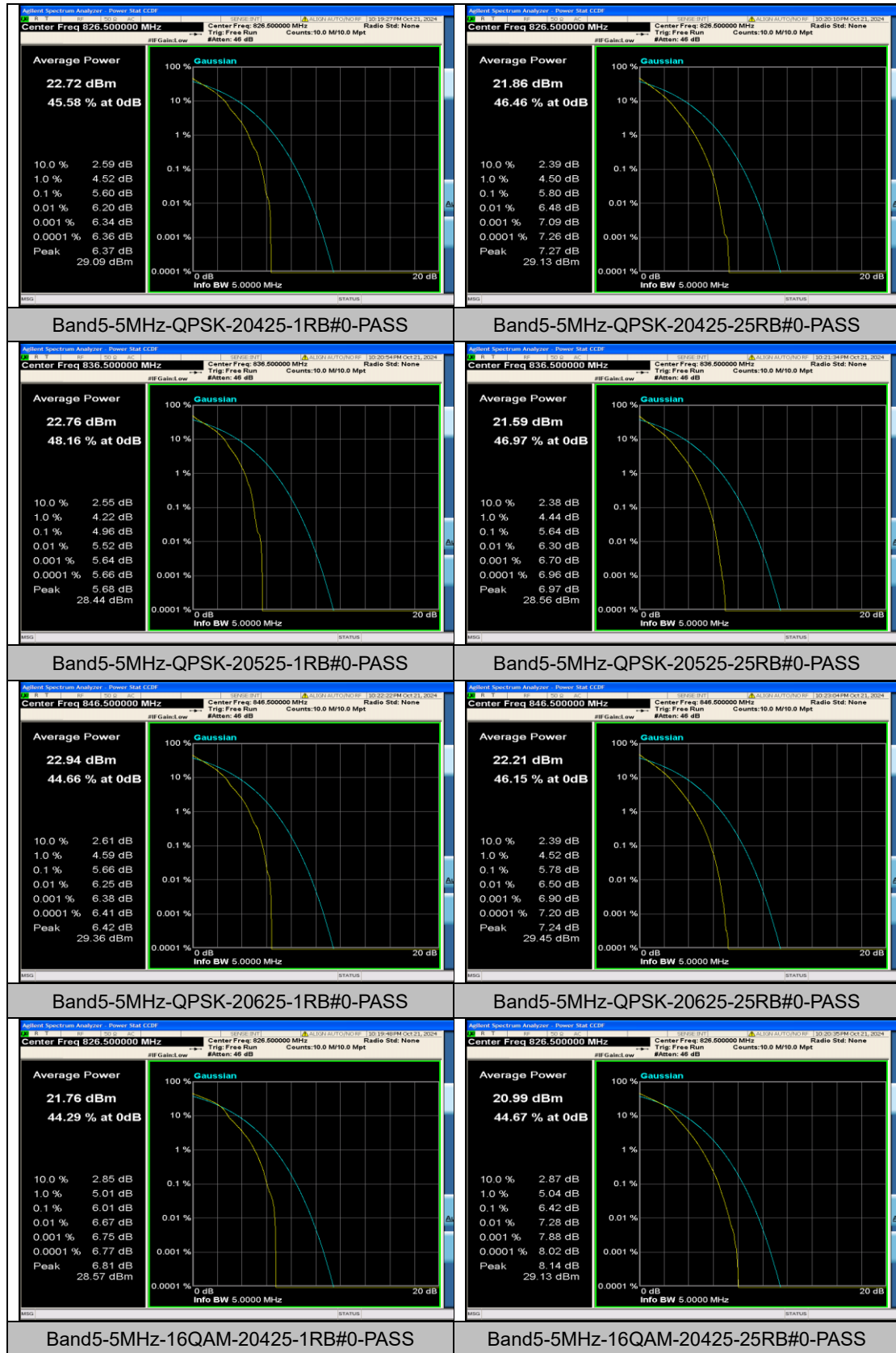
Band5	5MHz	16QAM	20625	25RB#0	6.45	13	PASS
Band5	10MHz	QPSK	20450	1RB#0	5.39	13	PASS
Band5	10MHz	QPSK	20450	50RB#0	5.46	13	PASS
Band5	10MHz	QPSK	20525	1RB#0	4.73	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.55	13	PASS
Band5	10MHz	QPSK	20600	1RB#0	5.26	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.70	13	PASS
Band5	10MHz	16QAM	20450	1RB#0	6.32	13	PASS
Band5	10MHz	16QAM	20525	1RB#0	5.50	13	PASS
Band5	10MHz	16QAM	20600	1RB#0	6.17	13	PASS

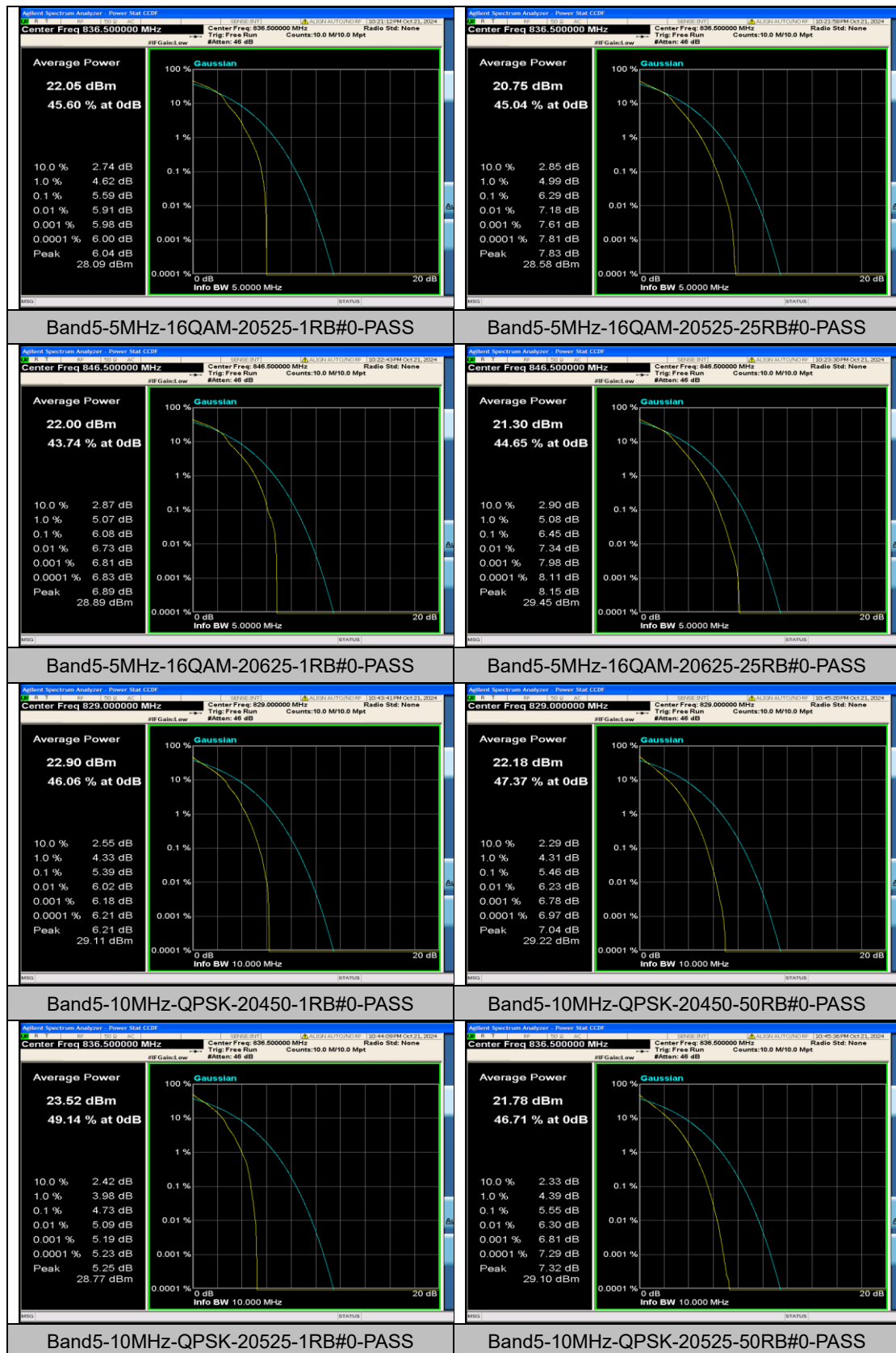
Test Graphs

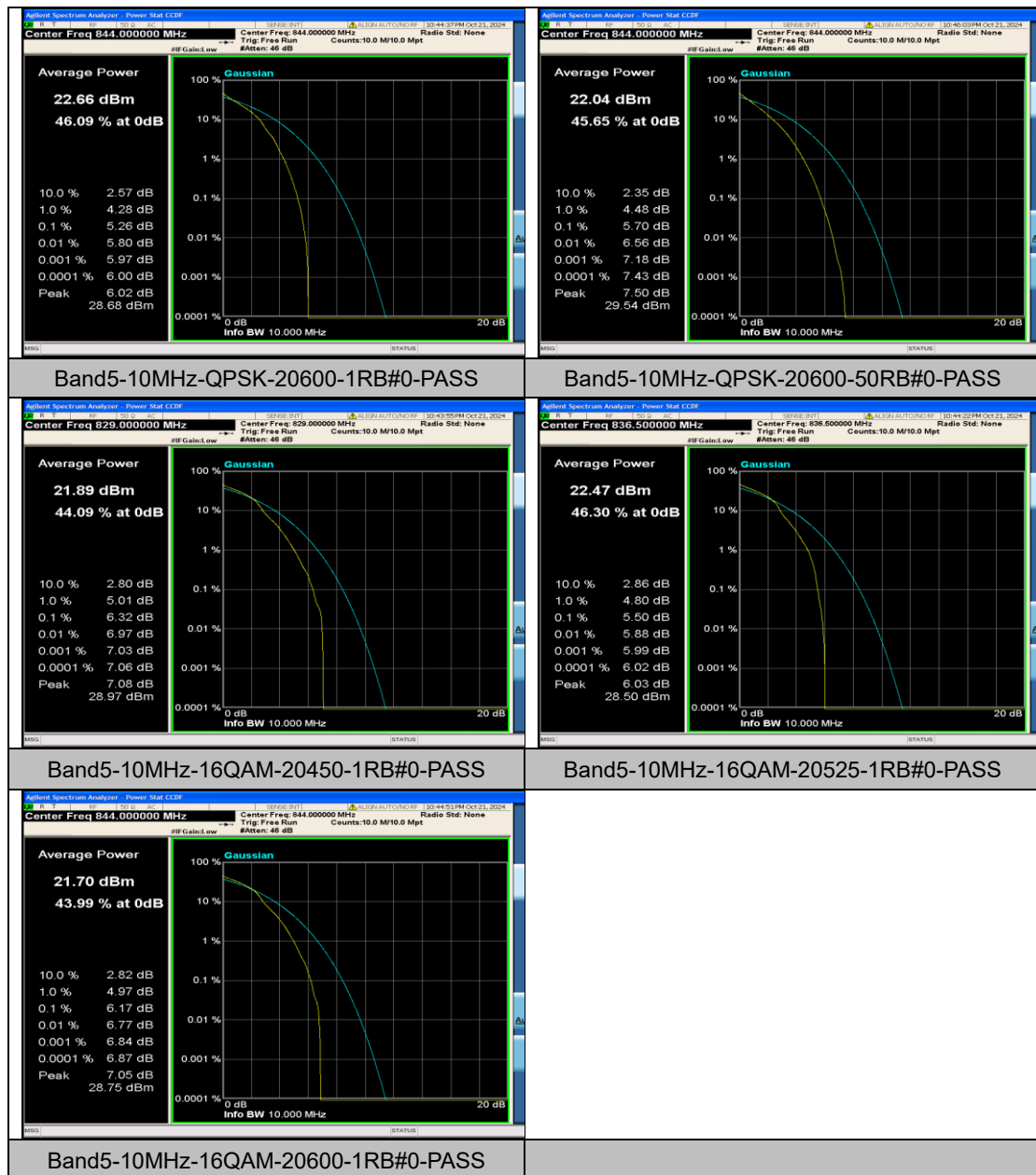










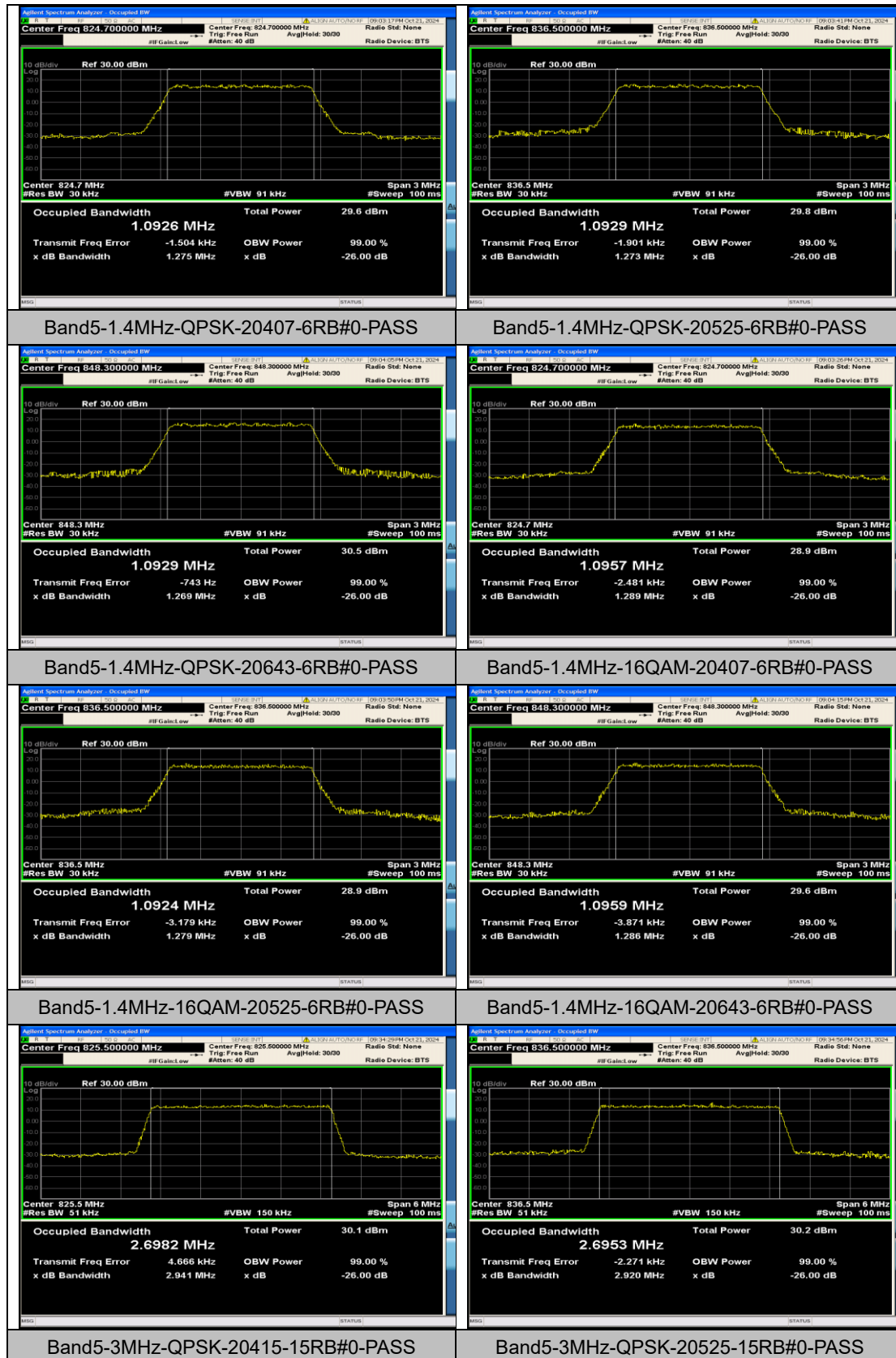


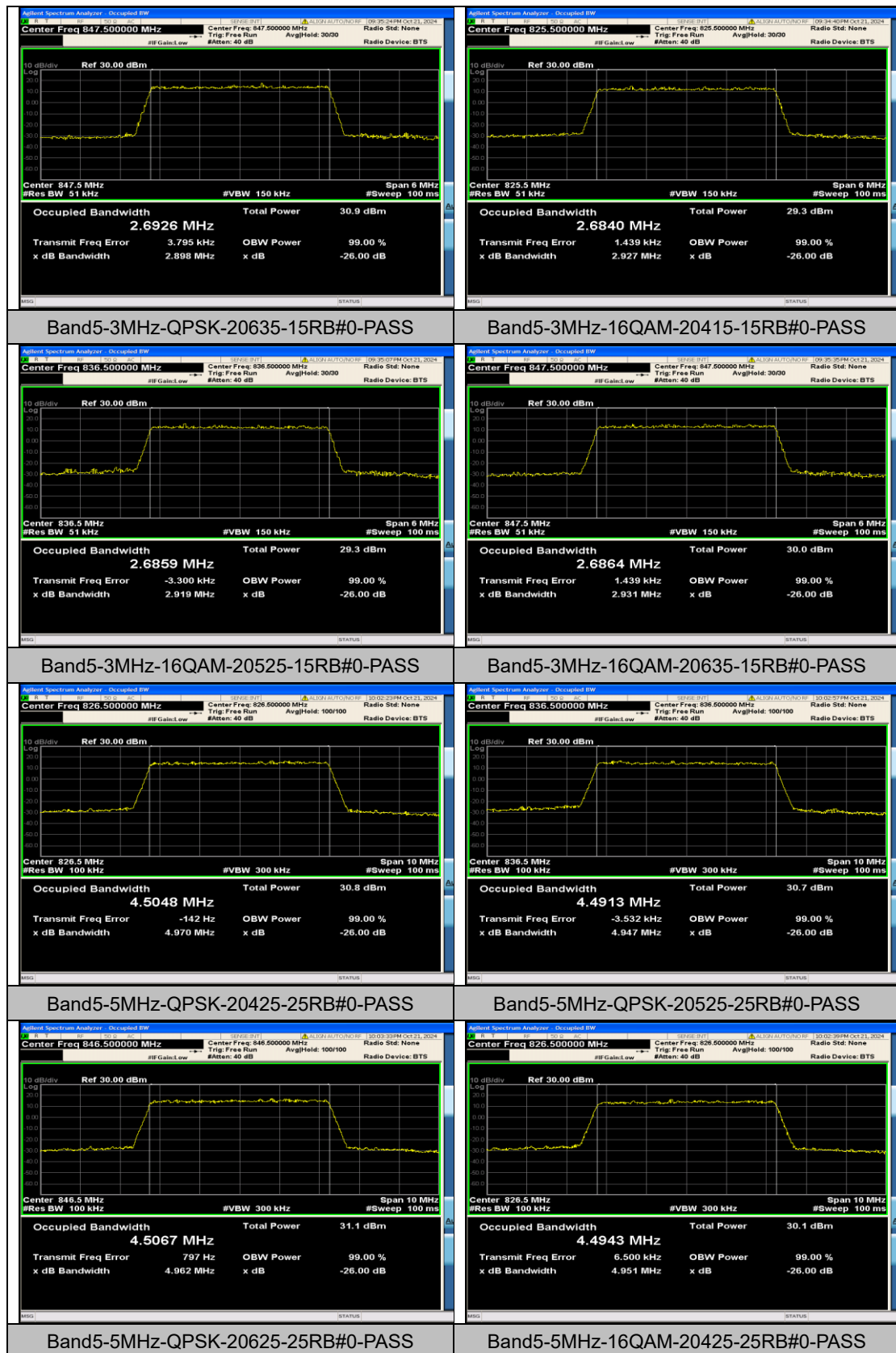
Appendix C: 26dB Bandwidth and Occupied Bandwidth

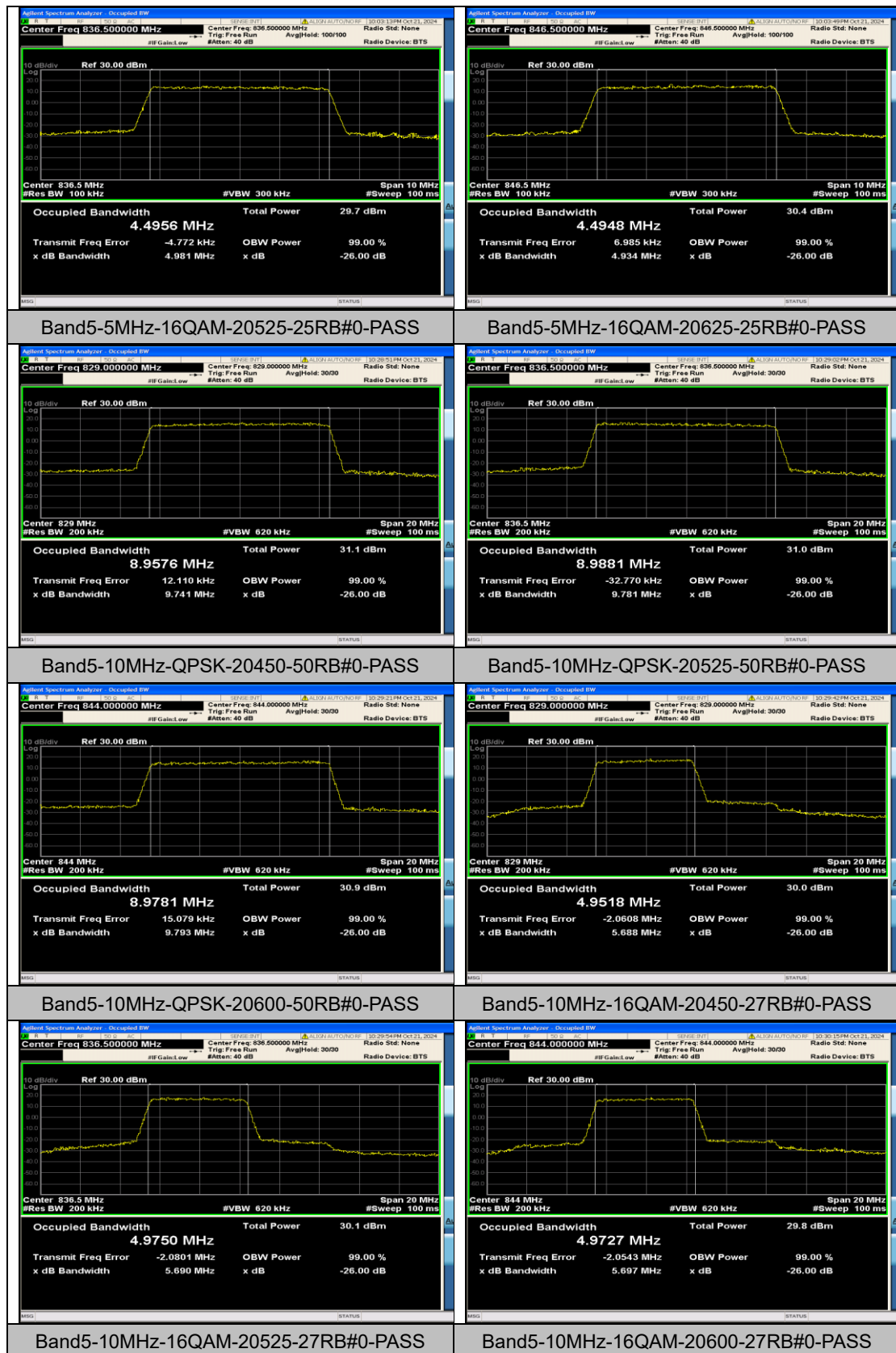
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.0926	1.275	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.0929	1.273	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.0929	1.269	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.0957	1.289	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.0924	1.279	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.0959	1.286	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.6982	2.941	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.6953	2.920	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.6926	2.898	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.6840	2.927	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.6859	2.919	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.6864	2.931	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.5048	4.970	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.4913	4.947	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.5067	4.962	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.4943	4.951	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.4956	4.981	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.4948	4.934	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.9576	9.741	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.9881	9.781	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.9781	9.793	PASS
Band5	10MHz	16QAM	20450	27RB#0	4.9518	5.688	PASS
Band5	10MHz	16QAM	20525	27RB#0	4.9750	5.690	PASS
Band5	10MHz	16QAM	20600	27RB#0	4.9727	5.697	PASS

Test Graphs







Appendix D: Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	-25.70	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	-31.00	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	-34.64	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	-31.40	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	-22.31	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	-34.02	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	-29.59	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	-34.75	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	-34.43	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	-34.91	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	-32.05	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	-33.75	PASS
Band5	3MHz	QPSK	20415	1RB#0	-25.52	PASS
Band5	3MHz	QPSK	20415	1RB#14	-35.63	PASS
Band5	3MHz	QPSK	20415	15RB#0	-36.36	PASS
Band5	3MHz	QPSK	20635	1RB#0	-33.93	PASS
Band5	3MHz	QPSK	20635	1RB#14	-25.39	PASS
Band5	3MHz	QPSK	20635	15RB#0	-35.42	PASS
Band5	3MHz	16QAM	20415	1RB#0	-26.60	PASS
Band5	3MHz	16QAM	20415	1RB#14	-36.06	PASS
Band5	3MHz	16QAM	20415	15RB#0	-36.72	PASS
Band5	3MHz	16QAM	20635	1RB#0	-33.58	PASS
Band5	3MHz	16QAM	20635	1RB#14	-26.93	PASS
Band5	3MHz	16QAM	20635	15RB#0	-37.66	PASS
Band5	5MHz	QPSK	20425	1RB#0	-27.15	PASS
Band5	5MHz	QPSK	20425	1RB#24	-38.12	PASS
Band5	5MHz	QPSK	20425	25RB#0	-37.28	PASS
Band5	5MHz	QPSK	20625	1RB#0	-35.86	PASS
Band5	5MHz	QPSK	20625	1RB#24	-26.40	PASS
Band5	5MHz	QPSK	20625	25RB#0	-35.12	PASS
Band5	5MHz	16QAM	20425	1RB#0	-27.88	PASS
Band5	5MHz	16QAM	20425	1RB#24	-38.99	PASS
Band5	5MHz	16QAM	20425	25RB#0	-37.73	PASS
Band5	5MHz	16QAM	20625	1RB#0	-35.97	PASS
Band5	5MHz	16QAM	20625	1RB#24	-28.06	PASS
Band5	5MHz	16QAM	20625	25RB#0	-36.36	PASS

Band5	10MHz	QPSK	20450	1RB#0	-37.20	PASS
Band5	10MHz	QPSK	20450	1RB#49	-46.53	PASS
Band5	10MHz	QPSK	20450	50RB#0	-39.00	PASS
Band5	10MHz	QPSK	20600	1RB#0	-45.59	PASS
Band5	10MHz	QPSK	20600	1RB#49	-36.68	PASS
Band5	10MHz	QPSK	20600	50RB#0	-39.65	PASS
Band5	10MHz	16QAM	20450	1RB#0	-39.19	PASS
Band5	10MHz	16QAM	20450	1RB#49	-47.16	PASS
Band5	10MHz	16QAM	20600	1RB#0	-45.87	PASS
Band5	10MHz	16QAM	20600	1RB#49	-37.41	PASS

Test Graphs

