



LORA multi-function positioning terminal

M/N:KG-04

FCC ID:2AQSK-KG-04

Applicant:HuiZhou BoShiJie Technology CO.,Ltd

Appendix for LTE Band 5



Appendix A: Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	22.21	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	21.15	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	22.57	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	21.57	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	21.84	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	20.76	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	21.99	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	20.79	PASS
Band5	1.4MHz	QPSK	20407	3RB#1	21.97	PASS
Band5	1.4MHz	16QAM	20407	3RB#1	20.77	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	21.91	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	20.70	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	21.43	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	20.42	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	21.61	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	20.59	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	21.93	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	20.80	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	21.33	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	20.15	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	21.50	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	20.39	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	21.55	PASS
Band5	1.4MHz	16QAM	20525	3RB#1	20.47	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	21.33	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	20.15	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	20.66	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	19.69	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	22.17	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	21.11	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	22.14	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	21.25	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	21.56	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	20.64	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	22.04	PASS
Band5	1.4MHz	16QAM	20643	3RB#0	21.16	PASS
Band5	1.4MHz	QPSK	20643	3RB#1	22.05	PASS



Band5	1.4MHz	16QAM	20643	3RB#1	21.14	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	21.79	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	20.86	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	21.33	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	20.55	PASS
Band5	3MHz	QPSK	20415	1RB#0	22.10	PASS
Band5	3MHz	16QAM	20415	1RB#0	21.16	PASS
Band5	3MHz	QPSK	20415	1RB#8	22.68	PASS
Band5	3MHz	16QAM	20415	1RB#8	21.75	PASS
Band5	3MHz	QPSK	20415	1RB#14	21.54	PASS
Band5	3MHz	16QAM	20415	1RB#14	20.64	PASS
Band5	3MHz	QPSK	20415	8RB#0	22.18	PASS
Band5	3MHz	16QAM	20415	8RB#0	21.27	PASS
Band5	3MHz	QPSK	20415	8RB#4	22.19	PASS
Band5	3MHz	16QAM	20415	8RB#4	21.27	PASS
Band5	3MHz	QPSK	20415	8RB#7	22.41	PASS
Band5	3MHz	16QAM	20415	8RB#7	21.43	PASS
Band5	3MHz	QPSK	20415	15RB#0	21.33	PASS
Band5	3MHz	16QAM	20415	15RB#0	20.34	PASS
Band5	3MHz	QPSK	20525	1RB#0	22.06	PASS
Band5	3MHz	16QAM	20525	1RB#0	20.96	PASS
Band5	3MHz	QPSK	20525	1RB#8	22.30	PASS
Band5	3MHz	16QAM	20525	1RB#8	21.30	PASS
Band5	3MHz	QPSK	20525	1RB#14	21.11	PASS
Band5	3MHz	16QAM	20525	1RB#14	19.98	PASS
Band5	3MHz	QPSK	20525	8RB#0	22.10	PASS
Band5	3MHz	16QAM	20525	8RB#0	21.15	PASS
Band5	3MHz	QPSK	20525	8RB#4	22.08	PASS
Band5	3MHz	16QAM	20525	8RB#4	21.14	PASS
Band5	3MHz	QPSK	20525	8RB#7	21.98	PASS
Band5	3MHz	16QAM	20525	8RB#7	20.99	PASS
Band5	3MHz	QPSK	20525	15RB#0	21.12	PASS
Band5	3MHz	16QAM	20525	15RB#0	20.16	PASS
Band5	3MHz	QPSK	20635	1RB#0	22.37	PASS
Band5	3MHz	16QAM	20635	1RB#0	21.22	PASS
Band5	3MHz	QPSK	20635	1RB#8	23.13	PASS
Band5	3MHz	16QAM	20635	1RB#8	22.24	PASS
Band5	3MHz	QPSK	20635	1RB#14	21.88	PASS
Band5	3MHz	16QAM	20635	1RB#14	21.04	PASS
Band5	3MHz	QPSK	20635	8RB#0	22.93	PASS
Band5	3MHz	16QAM	20635	8RB#0	22.11	PASS
Band5	3MHz	QPSK	20635	8RB#4	22.88	PASS



Band5	3MHz	16QAM	20635	8RB#4	22.07	PASS
Band5	3MHz	QPSK	20635	8RB#7	22.66	PASS
Band5	3MHz	16QAM	20635	8RB#7	21.93	PASS
Band5	3MHz	QPSK	20635	15RB#0	21.97	PASS
Band5	3MHz	16QAM	20635	15RB#0	20.99	PASS
Band5	5MHz	QPSK	20425	1RB#0	22.08	PASS
Band5	5MHz	16QAM	20425	1RB#0	21.01	PASS
Band5	5MHz	QPSK	20425	1RB#12	22.08	PASS
Band5	5MHz	16QAM	20425	1RB#12	20.96	PASS
Band5	5MHz	QPSK	20425	1RB#24	22.03	PASS
Band5	5MHz	16QAM	20425	1RB#24	20.83	PASS
Band5	5MHz	QPSK	20425	12RB#0	21.91	PASS
Band5	5MHz	16QAM	20425	12RB#0	20.93	PASS
Band5	5MHz	QPSK	20425	12RB#6	21.92	PASS
Band5	5MHz	16QAM	20425	12RB#6	20.92	PASS
Band5	5MHz	QPSK	20425	12RB#13	22.02	PASS
Band5	5MHz	16QAM	20425	12RB#13	21.00	PASS
Band5	5MHz	QPSK	20425	25RB#0	21.23	PASS
Band5	5MHz	16QAM	20425	25RB#0	20.27	PASS
Band5	5MHz	QPSK	20525	1RB#0	22.36	PASS
Band5	5MHz	16QAM	20525	1RB#0	21.49	PASS
Band5	5MHz	QPSK	20525	1RB#12	21.83	PASS
Band5	5MHz	16QAM	20525	1RB#12	20.99	PASS
Band5	5MHz	QPSK	20525	1RB#24	21.10	PASS
Band5	5MHz	16QAM	20525	1RB#24	20.20	PASS
Band5	5MHz	QPSK	20525	12RB#0	22.10	PASS
Band5	5MHz	16QAM	20525	12RB#0	21.22	PASS
Band5	5MHz	QPSK	20525	12RB#6	22.09	PASS
Band5	5MHz	16QAM	20525	12RB#6	21.26	PASS
Band5	5MHz	QPSK	20525	12RB#13	21.47	PASS
Band5	5MHz	16QAM	20525	12RB#13	20.46	PASS
Band5	5MHz	QPSK	20525	25RB#0	21.01	PASS
Band5	5MHz	16QAM	20525	25RB#0	20.06	PASS
Band5	5MHz	QPSK	20625	1RB#0	21.85	PASS
Band5	5MHz	16QAM	20625	1RB#0	20.97	PASS
Band5	5MHz	QPSK	20625	1RB#12	22.82	PASS
Band5	5MHz	16QAM	20625	1RB#12	21.78	PASS
Band5	5MHz	QPSK	20625	1RB#24	22.11	PASS
Band5	5MHz	16QAM	20625	1RB#24	21.33	PASS
Band5	5MHz	QPSK	20625	12RB#0	22.40	PASS
Band5	5MHz	16QAM	20625	12RB#0	21.42	PASS
Band5	5MHz	QPSK	20625	12RB#6	22.37	PASS



Band5	5MHz	16QAM	20625	12RB#6	21.43	PASS
Band5	5MHz	QPSK	20625	12RB#13	22.57	PASS
Band5	5MHz	16QAM	20625	12RB#13	21.72	PASS
Band5	5MHz	QPSK	20625	25RB#0	21.80	PASS
Band5	5MHz	16QAM	20625	25RB#0	20.86	PASS
Band5	10MHz	QPSK	20450	1RB#0	22.11	PASS
Band5	10MHz	16QAM	20450	1RB#0	21.16	PASS
Band5	10MHz	QPSK	20450	1RB#24	22.57	PASS
Band5	10MHz	16QAM	20450	1RB#24	21.60	PASS
Band5	10MHz	QPSK	20450	1RB#49	23.09	PASS
Band5	10MHz	16QAM	20450	1RB#49	22.36	PASS
Band5	10MHz	QPSK	20450	25RB#0	22.25	PASS
Band5	10MHz	16QAM	20450	25RB#0	21.23	PASS
Band5	10MHz	QPSK	20450	25RB#12	22.23	PASS
Band5	10MHz	16QAM	20450	25RB#12	21.21	PASS
Band5	10MHz	QPSK	20450	25RB#25	22.72	PASS
Band5	10MHz	16QAM	20450	25RB#25	21.74	PASS
Band5	10MHz	QPSK	20525	1RB#0	21.49	PASS
Band5	10MHz	16QAM	20525	1RB#0	20.38	PASS
Band5	10MHz	QPSK	20525	1RB#24	22.10	PASS
Band5	10MHz	16QAM	20525	1RB#24	20.93	PASS
Band5	10MHz	QPSK	20525	1RB#49	19.30	PASS
Band5	10MHz	16QAM	20525	1RB#49	18.16	PASS
Band5	10MHz	QPSK	20525	25RB#0	22.49	PASS
Band5	10MHz	16QAM	20525	25RB#0	21.56	PASS
Band5	10MHz	QPSK	20525	25RB#12	22.47	PASS
Band5	10MHz	16QAM	20525	25RB#12	21.55	PASS
Band5	10MHz	QPSK	20525	25RB#25	20.47	PASS
Band5	10MHz	16QAM	20525	25RB#25	19.57	PASS
Band5	10MHz	QPSK	20600	1RB#0	21.17	PASS
Band5	10MHz	16QAM	20600	1RB#0	19.92	PASS
Band5	10MHz	QPSK	20600	1RB#24	21.62	PASS
Band5	10MHz	16QAM	20600	1RB#24	20.39	PASS
Band5	10MHz	QPSK	20600	1RB#49	21.70	PASS
Band5	10MHz	16QAM	20600	1RB#49	20.83	PASS
Band5	10MHz	QPSK	20600	25RB#0	20.92	PASS
Band5	10MHz	16QAM	20600	25RB#0	19.94	PASS
Band5	10MHz	QPSK	20600	25RB#12	20.92	PASS
Band5	10MHz	16QAM	20600	25RB#12	19.93	PASS
Band5	10MHz	QPSK	20600	25RB#25	22.16	PASS
Band5	10MHz	16QAM	20600	25RB#25	21.17	PASS
Band5	10MHz	QPSK	20450	50RB#0	21.93	PASS



Band5	10MHz	QPSK	20525	50RB#0	21.05	PASS
Band5	10MHz	QPSK	20600	50RB#0	20.96	PASS



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

Test Result

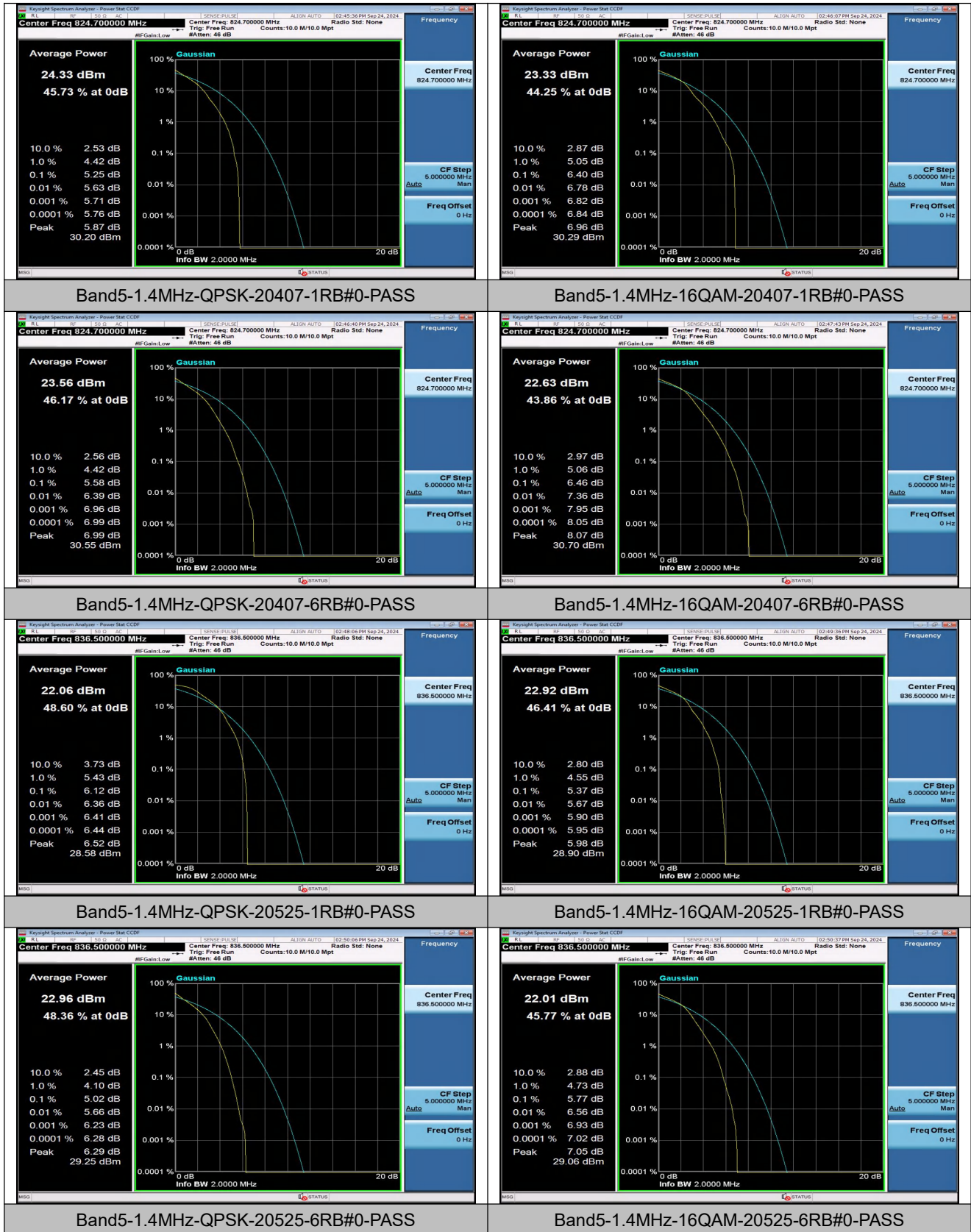
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	5.25	13	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	6.40	13	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	5.58	13	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	6.46	13	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	6.12	13	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	5.37	13	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	5.02	13	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	5.77	13	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	3.34	13	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	4.30	13	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	4.06	13	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	4.88	13	PASS
Band5	3MHz	QPSK	20415	1RB#0	5.34	13	PASS
Band5	3MHz	16QAM	20415	1RB#0	6.45	13	PASS
Band5	3MHz	QPSK	20415	15RB#0	5.55	13	PASS
Band5	3MHz	16QAM	20415	15RB#0	6.45	13	PASS
Band5	3MHz	QPSK	20525	1RB#0	4.37	13	PASS
Band5	3MHz	16QAM	20525	1RB#0	5.25	13	PASS
Band5	3MHz	QPSK	20525	15RB#0	5.19	13	PASS
Band5	3MHz	16QAM	20525	15RB#0	5.93	13	PASS
Band5	3MHz	QPSK	20635	1RB#0	4.40	13	PASS
Band5	3MHz	16QAM	20635	1RB#0	10.46	13	PASS
Band5	3MHz	QPSK	20635	15RB#0	4.76	13	PASS
Band5	3MHz	16QAM	20635	15RB#0	5.51	13	PASS
Band5	5MHz	QPSK	20425	1RB#0	5.56	13	PASS
Band5	5MHz	16QAM	20425	1RB#0	6.09	13	PASS
Band5	5MHz	QPSK	20425	25RB#0	5.81	13	PASS
Band5	5MHz	16QAM	20425	25RB#0	6.49	13	PASS
Band5	5MHz	QPSK	20525	1RB#0	4.25	13	PASS
Band5	5MHz	16QAM	20525	1RB#0	4.92	13	PASS
Band5	5MHz	QPSK	20525	25RB#0	5.32	13	PASS
Band5	5MHz	16QAM	20525	25RB#0	6.01	13	PASS
Band5	5MHz	QPSK	20625	1RB#0	5.20	13	PASS
Band5	5MHz	16QAM	20625	1RB#0	5.81	13	PASS
Band5	5MHz	QPSK	20625	25RB#0	5.13	13	PASS
Band5	5MHz	16QAM	20625	25RB#0	5.86	13	PASS

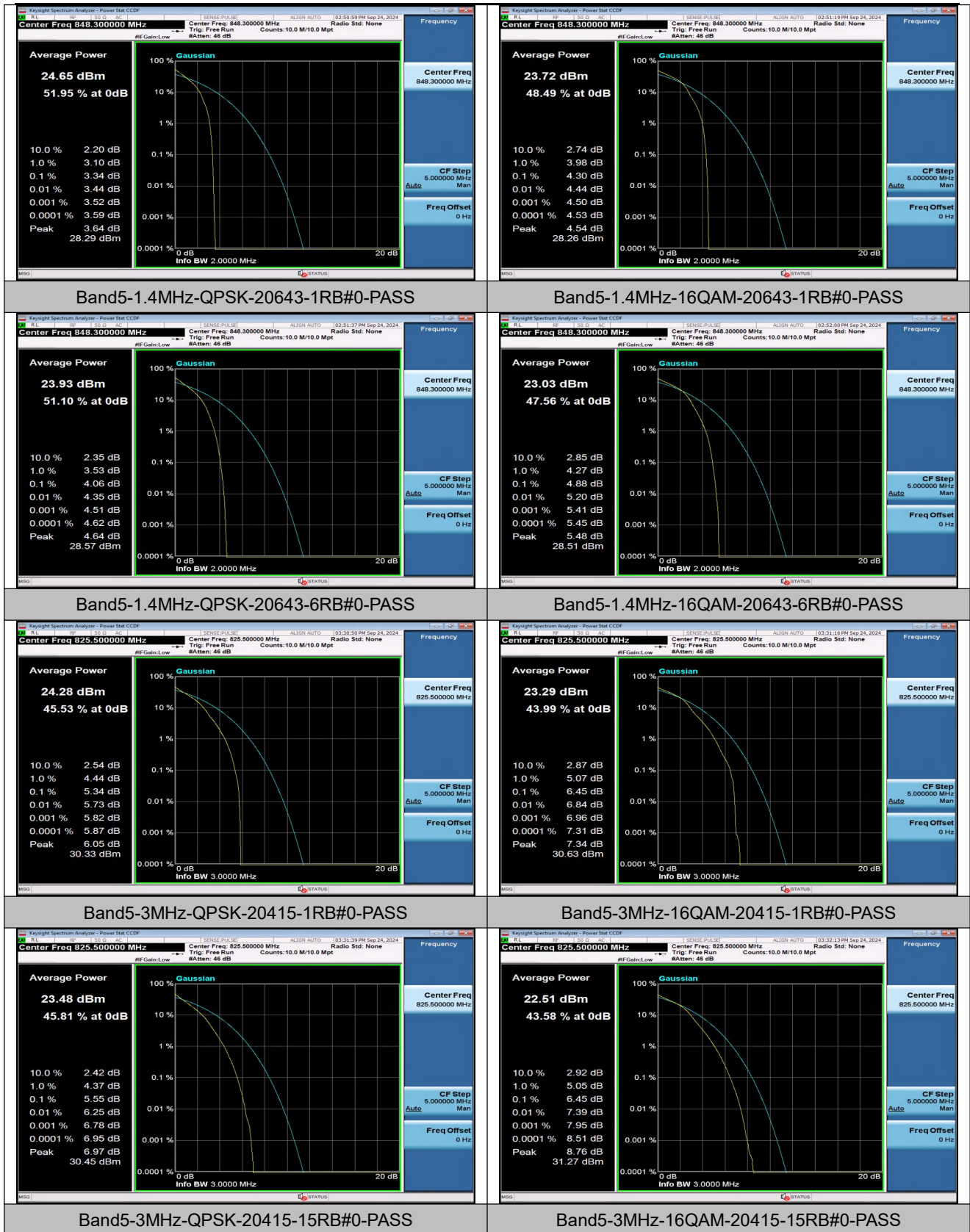


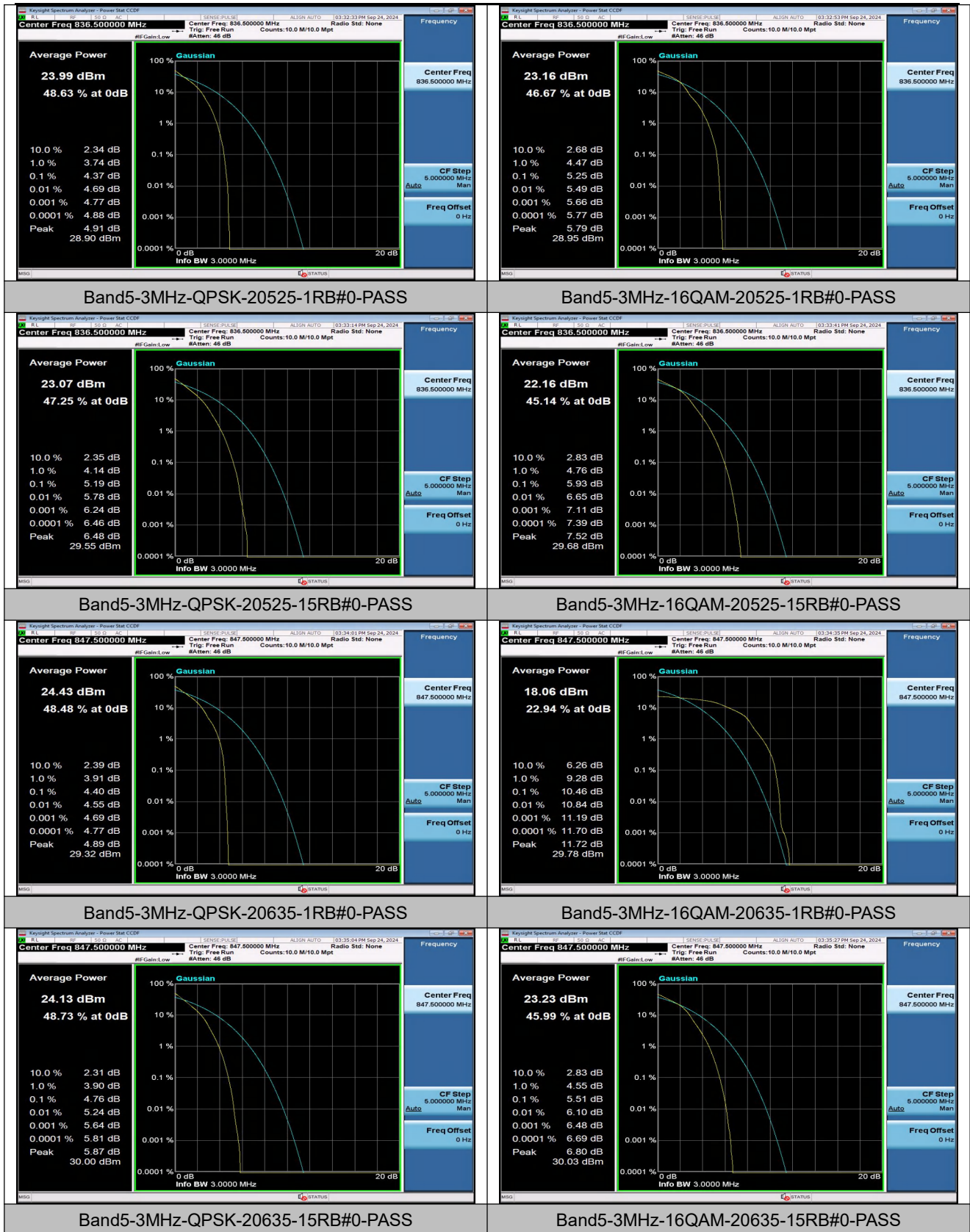
Band5	10MHz	QPSK	20450	1RB#0	5.51	13	PASS
Band5	10MHz	16QAM	20450	1RB#0	6.40	13	PASS
Band5	10MHz	QPSK	20525	1RB#0	5.03	13	PASS
Band5	10MHz	16QAM	20525	1RB#0	5.76	13	PASS
Band5	10MHz	QPSK	20600	1RB#0	5.34	13	PASS
Band5	10MHz	16QAM	20600	1RB#0	6.46	13	PASS
Band5	10MHz	QPSK	20450	50RB#0	5.65	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.31	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.62	13	PASS

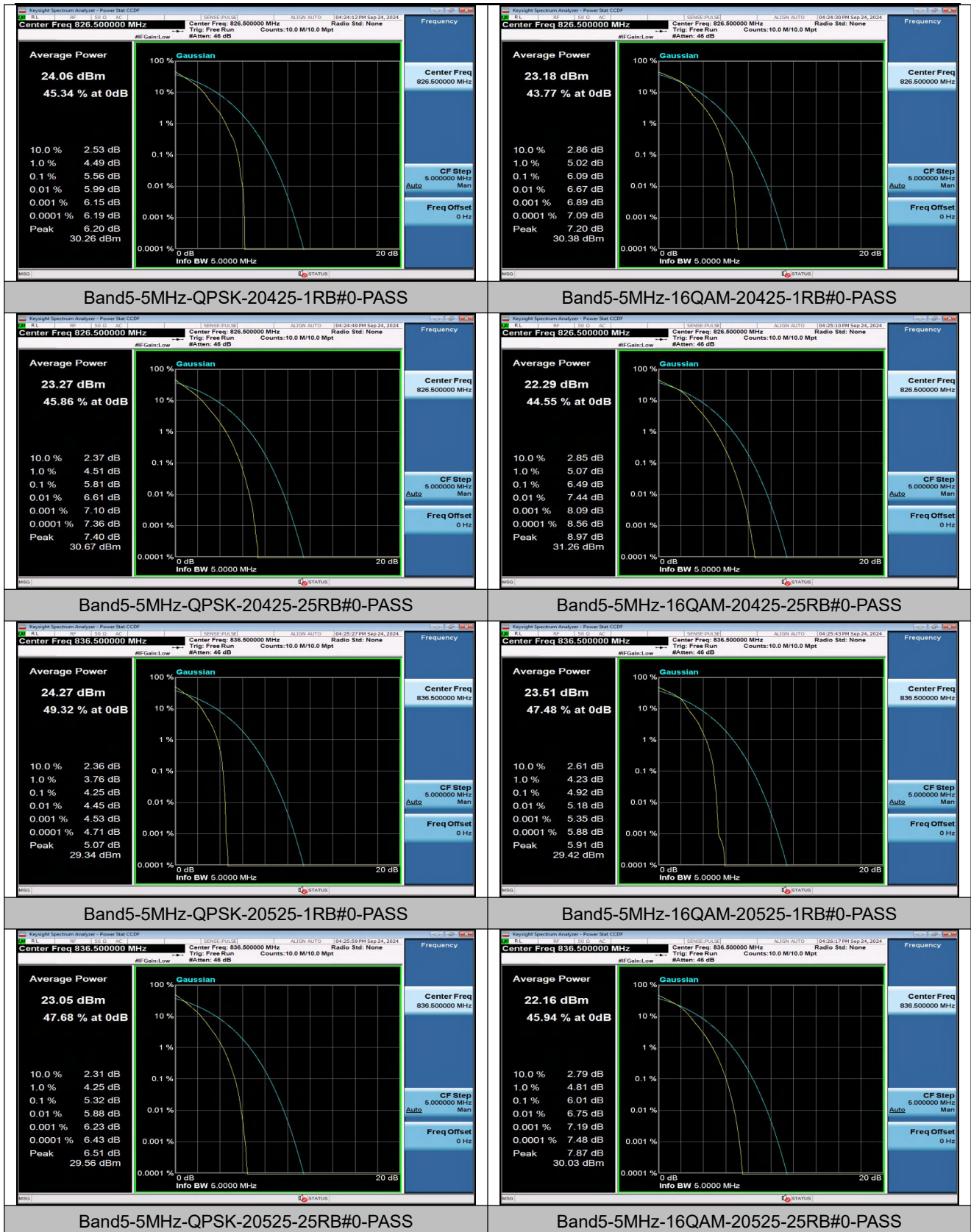


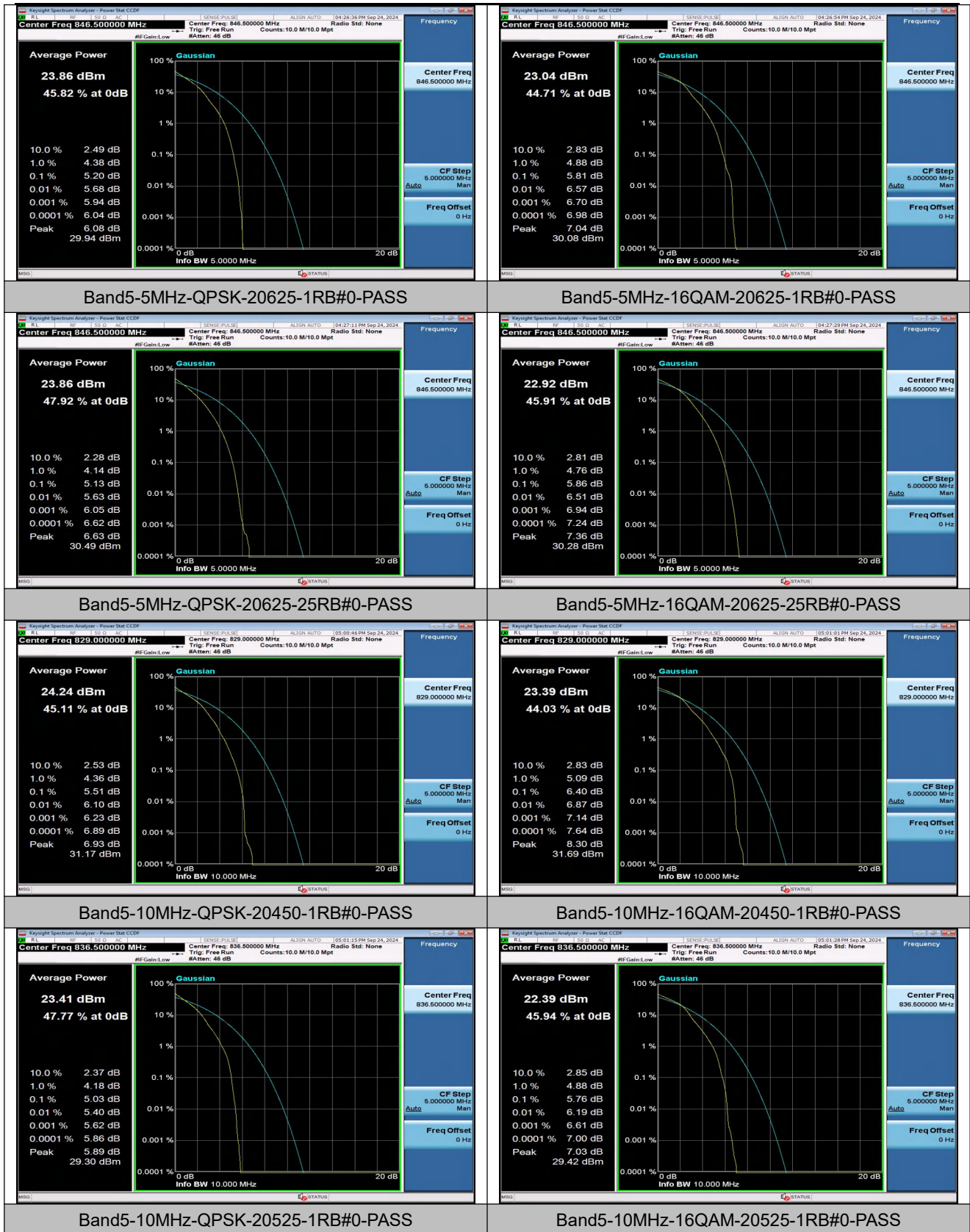
Test Graphs















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	1.0911	1.451	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.1040	1.479	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.0983	1.461	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.0992	1.485	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.1116	1.611	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.1026	1.580	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.6889	3.157	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.6872	3.144	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.6802	3.150	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.6850	3.189	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.6914	3.154	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.6827	3.117	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.4927	5.085	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.4911	5.119	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.4742	5.052	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.4797	5.062	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.4733	5.097	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.4733	5.109	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.9551	9.681	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.8892	9.590	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.9573	9.726	PASS